GRAPHIC SCALES: 1/16" = 1'-0" | 1/8" = 1'-0" | 1/4" = 1'-0" | 1/2" = 1'-0" | 3/4" = 1'-0" | 1" = 1'-0" | 1-1/2" = 1'-0" | 3" = 1'-0"

IF THIS SHEET IS NOT 30"x42" , IT IS A REDUCED PRINT – SCALE ACCORDINGLY

SAN RAFAEL CITY SCHOOLS

# SAN PEDRO ELEMENTARY SCHOOL

498 POINT SAN PEDRO ROAD, SAN RAFAEL, CA 94901

PTN: #### - ##

## ABBREVIATIONS

| | | | |
|---|---|---|---|
| ℄ | Property Line | LAB. | Laboratory |
| & | And | LAM. | Laminate |
| ∠ | Angle | LAV. | Lavatory |
| @ | At | LHS | Leaderhead w/Splash Pan |
| ℄ | Centerline | LIN | Linoleum |
| Ø | Diameter or Round | LKR. | Locker |
| ⊥ | Perpendicular | L.P. | Low Partition |
| # | Pound or Number | LT. | Light |
| // | Parallel | LTC | Light Weight Concrete over Plywood Subfloor or Metal Deck |
| ABV. | Above | | |
| ACC. | Accessible | M.D.F. | Medium Density Fiberboard |
| ACOUS. | Acoustical | MAT. | Material |
| ACP | Suspended Acoustic Panel Ceiling | MAX. | Maximum |
| ACT | Acoustical Ceiling Tile | MB. | Machine Bolt |
| A.D. | Area Drain | M.C. | Medicine Cabinet |
| ADD. | Additional | MECH. | Mechanical |
| ADJ. | Adjustable | MEMB. | Membrane |
| A.F.F. | Above Finished Floor | MET. | Metal |
| AGGR. | Aggregate | MFR. | Manufacturer |
| AL./ALUM. | Aluminum | MH. | Manhole |
| ANOD. | Anodized | MIN. | Minimum |
| APPROX. | Access Panel | MIR. | Mirror |
| A.P. | Approximate | MISC. | Miscellaneous |
| ARCH. | Architectural | M.O. | Masonry Opening |
| ASB. | Asbestos | M.S. | Machine Screw |
| ASPH. | Asphalt | MTD. | Mounted |
| A.C. | Asphaltic Concrete | MTG. | Mounting |
| | | MUL. | Mullion |
| BAL. | Balance | MOD. | Modular |
| BAS./BSMT. | Basement | (N) | New |
| BTWN. | Between | N. | North |
| BD. | Board | N.I.C. | Not in Contract |
| BITUM. | Bituminous | NO. or # | Number |
| BLDG. | Building | NOM. | Nominal |
| BLK. | Block | N.T.S. | Not To Scale |
| BLKG. | Blocking | | |
| BM. | Beam | O.A. | Overall |
| BOT. | Bottom | OBS. | Obscure |
| BO. | Both | O.C. | On Center |
| B.U.R. | Built-up Roofing | O.D. | Outside Diameter(Dim.) |
| | | OFCI | Owner Furnished Contractor Install |
| CAB. | Cabinet | OFF. | Office |
| C.B. | Catch Basin | O.H. | Opposite Hand |
| CBB | Cementitious Backer Board | OPNG. | Opening |
| CEM. | Cement | OPP. | Opposite |
| CER. | Ceramic | O.F.S. | Outside Face of Stud |
| CFCI | Contractor Furnish Contractor Install | OFOI | Owner Furnished Owner Installed |
| C.G. | Corner Guard | | |
| C.I. | Cast Iron | PRCST. | Pre-Cast |
| C.J. | Control Joint | PL. | Plate |
| CLG. | Ceiling | PLN. | Plan |
| CLKG. | Caulking | P.LAM. | Plastic Laminate |
| CLO. | Closet | PLAS. | Plaster |
| CL./CLR. | Clear | PLYWD. | Plywood |
| CLRM. | Classroom | POR | Porcelain Tile |
| CMP | Exterior Cement Plaster | PR. | Pair |
| CMU | Concrete Masonry Unit | PT. | Point |
| C.O. | Clean Out | P.T.D. | Paper Towel Dispenser |
| COL. | Column | P.T.D/R | Combination Paper Towel Dispenser & Receptacle |
| COMPT. | Compactor | PTN. | Partition |
| CONC. | Concrete | P.T.R. | Paper Towel Receptable |
| CONN. | Connection | P.T.S. | Pneumatic Tube System |
| CONST. | Construction | P.U.P. | Poured in Place |
| CONT. | Continuous | | |
| CORR. | Corridor | Q.T. | Quarry Tile |
| CTSK. | Countersunk | | |
| CNTR. | Counter | (RE) | Relocated Existing |
| CNTRTOP | Countertop | RAD. | Radius |
| CTR. | Center | RB | Resilient Base |
| | | R.D. | Roof Drain |
| DBL. | Double | REF. | Reference |
| DEFLECT. | Deflection | REFL. | Reflected |
| DEMO. | Demolition | RF | Exhaust Fan on Roof |
| DEPT. | Department | RGTR. | Register |
| D.F. | Drinking Fountain | REINF. | Reinforced |
| DET./DTL. | Detail | REQ. | Required |
| D.I. | Drain Inlet | RESIL. | Resilient |
| DIA. | Diameter | RM. | Room |
| DIM. | Dimension | R.O. | Rough Opening |
| DISP. | Dispenser | RST | Rubber Stair Tread |
| DN. | Down | RWD. | Redwood |
| D.O. | Door Opening | R.W.L. | Rain Water Leader |
| DR. | Door | R.H. | Robe Hook |
| DWR. | Drawer | RCP | Reflected Ceiling Plan |
| DS. | Downspout | | |
| D.S.P. | Dry Standpipe | S | South |
| DWG. | Drawing | SC. | Solid Core |
| | | S.C.D. | See Civil Dwgs. |
| (E)/EXST. | Existing | SCHED. | Schedule |
| E. | East | SCONC | Sealed Concrete |
| EA. | Each | SCRN. | Screen |
| E.F. | Exhaust Fan | S.D. | Soap Dispenser |
| E.J. | Expansion Joint | SECT. | Section |
| EL. | Elevation | S.E.D. | See Electrical Drawings |
| ELEC. | Electrical | S.F.P.D. | See Fire Protection Drawing |
| ELEV. | Elevation | SQ. | Square |
| EMER. | Emergency | S.S.D. | See Structural Drawings |
| ENCL. | Enclosure | SST. | Stainless Steel |
| E.P. | Electrical Panelboard | STA. | Station |
| EQ. | Equal | STD. | Standard |
| EQPT. | Equipment | STL. | Steel |
| E.W.C. | Electrical Water Cooler | STOR. | Storage |
| EXPO. | Exposed | STRL. | Structural |
| EXPOS | Exposed Structure | STRUCT. | Structural |
| EXP. | Expansion | SUSP. | Suspended |
| EXT. | Exterior | SYM. | Symmetrical |
| EXTR. | Extrusion | | |
| F.A. | Fire Alarm | T.O. | Top of |
| F.B. | Flat Bar | T.O.C. | Top of Curb |
| F.BKT. | Fire Blanket | T.O.P. | Top of Pavement |
| F.D. | Floor Drain | T.O.S. | Top of Slab |
| FDN. | Foundation | T.O.W. | Top of Wall |
| F.E. | Fire Extinguisher | TOIL. | Toilet |
| F.E.C. | Fire Extinguisher Cab. | TRD. | Tread |
| F.H.C. | Fire Hose Cabinet | THRES | Threshold |
| FIN. | Finish | TEL. | Telephone |
| FIXT. | Fixture | TER. | Terrazzo |
| FL. | Floor | T.&G. | Tongue and Groove |
| FLASH. | Flashing | THK. | Thick |
| FLUOR. | Fluorescent | T.P.D. | Toilet Paper Dispenser |
| F.O.C. | Face of Concrete | T.V. | Television |
| F.O.F. | Face of Finish | TYP. | Typical |
| F.O.S. | Face of Studs | TEMP. | Temporary |
| FPRF. | Fireproof | TW | Tackable Wall Board Panel |
| F.R. | Fire Retardent | | |
| FRP | Fiberglass Reinforced Panel | UNF. | Unfinished |
| FRZ. | Freezer | U.O.N. | Unless Otherwise Noted |
| F.S. | Full Size | UR. | Urinal |
| FT. | Foot or Feet | | |
| FTG. | Footing | VERT. | Vertical or Vertically |
| FURR. | Furring | VEST. | Vestibule |
| FUT. | Future | VCB | Vent Cove Base |
| F.V. | Field Verify | V.T.R. | Vent Through Roof |
| GA. | Gauge | W. | West or Wire |
| GALV. | Galvanized | W./C. | Water Closet |
| G.B. | Grab Bar | WD. | Wood |
| GL. | Glass | WDVP | Wood Veneer Panel |
| GND. | Ground | WDW. | Window |
| GR. | Grade | WK. | Work |
| GSM | Galvanized Sheet Metal | W.O. | Where Occurs |
| GYP. | Gypsum | W/O | Without |
| | | WP. | Waterproof |
| H.B. | Hose Bibb | W.PT. | Working Point |
| H.R. | Hand Rail | W.R. | Water Resistant |
| HD. | Head | WSCT. | Wainscot |
| HDWD. | Hardwood | WT. | Weight |
| HDWE. | Hardware | WH | Water Heater |
| HGB | High Impact Gypsum Board | W/ | With |
| H.M. | Hollow Metal | | |
| HORIZ. | Horizontal | | |
| H.W.D. | Hot Water Dispenser | | |
| HR. | Hour | | |
| HGT. | Height | | |
| H.S. | Hanger Strip | | |
| ICB | Integral Cove Base | | |
| ICP | Interior Cement Plaster | | |
| I.D. | Inside Diameter (Dim.) | | |
| INFO | Information | | |
| INSUL. | Insulation | | |
| INT. | Interior | | |
| JAN. | Janitor | | |
| JT. | Joint | | |
| KIT. | Kitchen | | |
| K.S. | Knee Space | | |

## SYMBOLS

COLUMN LINE

BUILDING ELEVATION — 1 / A3.01 — ELEVATION IDENTIFICATION; SHEET WHERE ELEVATION IS SHOWN

BUILDING OR WALL SECTION — 1 / A3.01 — SECTION IDENTIFICATION; SHEET WHERE SECTION IS SHOWN

DETAIL — 1 / A3.01 — DETAIL IDENTIFICATION; SHEET WHERE DETAIL IS SHOWN ( - MEANS DETAIL SHOWN ON SAME SHEET)

INTERIOR ELEVATION(S) — 1 / 4 A5.01 / 3 — SHEET WHERE ELEVATION IS SHOWN; NO ARROWS MEAN ELEVATION NOT SHOWN; DETAIL NO. OF ELEVATION

WORK POINT, CONTROL POINT OR DATUM POINT

REVISIONS — 3 — REVISION NUMBER

DOWNSPOUT DETAIL IDENTIFICATION — 123 — DOWNSPOUT HEAD DETAIL ON A8.01; 123 — DOWNSPOUT BOTTOM DETAIL ON A8.01

ROOM IDENTIFICATION (TYPE 1) — CORRD / 201 / 9'-0" — ROOM NAME; ROOM NUMBER; CEILING HEIGHT

WINDOW SYMBOL — 2 — WINDOW MARK; SEE WINDOW SCHEDULE

CASEWORK SYMBOL — UNIT / W D H — CASEWORK SERIES NUMBER FOR DETAIL DESCRIPTION OF CASEWORK TYPE & DESIGNATIONS, REFER TO WOODWORK INSTITUTE MANUAL OF MILLWORK; HEIGHT; DEPTH; WIDTH

SHEETNOTE TAG — 123 — REFER TO SHEETNOTE LIST LOCATED ON PLAN SHEETS

ASSEMBLY TAG — 123 — REFER TO WALL, FLOOR AND ROOF ASSEMBLIES ON A9.10

DOOR SYMBOL — 1 / 2 — DOOR MARK, SEE DOOR SCHEDULE; HARDWARE GROUP SEE FIN. HARDWARE SCHEDULE

(E) DOOR TO REMAIN

(E) DOOR TO BE REMOVED

(N) DOOR & DOOR FRAME

2 X 4 FLUORESCENT LIGHT FIXTURE, RECESSED

1 X 4 FLUORESCENT LIGHT FIXTURE

DOWNLIGHT, RECESSED

SD — SMOKE DETECTOR

HD — HEAT DETECTOR

SP — SPEAKER

SPRINKLER HEAD

REGISTER (SUPPLY OR RETURN) SEE MECHANICAL DRAWINGS FOR ADDITIONAL INFORMATION

CEILING ACCESS PANEL

CEILING MOUNTED EXIT SIGN

WALL MOUNTED EXIT SIGN

LOW LEVEL WALL MOUNTED EXIT SIGN

WALL SCONCE

FE — SURFACE MOUNT FIRE EXTINGUISHER

FEC — RECESS MOUNT FIRE EXTINGUISHER CABINET

DS — DOWNSPOUT - CONNECT TO STORM DRAIN SYSTEM, SEE PLUMBING DRAWINGS

NOTE: SOME OF THE ABOVE SYMBOLS MAY NOT HAVE BEEN USED FOR THIS PROJECT.

## GENERAL NOTES

1. It is the responsibility of the generl contractor to see to it that all materials and/or work described, depicted or detailed within these documents, be furnished and/or Installed regardless of the location of that material or work within the documents or omission (whether deliberate or accidental) of that material or work by a subcontractor on his/ her bed.
2. All contractors, whether the general or sub, shall consider these documents in their entirety, Discrepancies or contradictions between portions of these documents must be brought to the attention of the architect at least 48 hrs prior to bid opening for clarification. Otherwise either description or instruction shall be in force until one is omitted by the architect, at no additional cost to the owner.
3. The contractor is responsible for providing and maintaining temporary fencing and gates, signage, security lighting or other security and control measures necessary to provide for the safety of students, faculty and staff around the work, until the completion of the work unless otherwise determined by the architect or construction manager.
4. The contractor is responsible to repair and/or replace all district property damaged during the course on the work, especially but not limited to asphalt paving around the site, staging area or path of travel to either.
5. The contractor shall limit his/her activity to the area described within the documents so as to limit his/her liability for damaged property unless otherwise permitted by the construction manager or owner,
6. All work shall be in accordance with requirements of all applicable codes. See list this sheet.
7. Contractor is responsible for obtaining all required permits prior to commencement of construction except dsa approval.
8. All dimensions shall be face of stud, unless otherwise noted. Dimensions noted as "clr" mean clear dimension to face of finish. Verify all existing dimensions and conditions and notify architect of any discrepancies found.
9. All items in these drawings are new unless otherwise noted.
10. Schedule all work outside the "extent of work" set forth in these documents with the construction manager including access and storage. The construction schedule shall be approved by the owner prior to the start of construction.
11. All utilities required for the continuous operation of all existing facilities to remain must be maintained in service at all times. Any shut downs for new connections must be coordinated with the construction manager two weeks prior to the requested shut down,
12. The contractor is responsible for the repair or replacement of any items damaged or disturbed during the course of the work. Installation shall match existing in kind, quality, and performance,
13. The contractor shall contain all dust and debris to the construction area. Broom clean all sidewalks and driveways each day. Keep dirt and dust to a minimum.
14. All remodeled items listed to be salvaged for the owner shall be delivered to a place of storage as directed by the owner. All other items must be disposed of off site in a legal manner.
15. All work shall be executed in a careful and orderly manner with the least possible disturbance to the public and to occupants of existing buildings.
16. The contractor shall assume sole responsibility for the safety of all persons on or about the construction site, in accordance with applicable laws and codes. Guard all hazards in accordance with the safety provisions of the latest manual of accident prevention published by the associated general contractors of america.
    A. Coordination with other contracts: if any part of this contractor's work depends upon the work of a separate contractor, this contractor shall inspect such other work and promptly report in writing to the construction manager any defects in such other work that render it unsuitable to receive the work of this contractor. failure of this contractor to so inspect and report shall constitute an acceptance of the other contractor's work, except as to defects which may develop in other contractor's work after execution of this contractor's work.
    B. Coordination schedule: portions of work under this contractor's work must be completed on schedule in order for other not-in-contract work to be completed by others. Coordination with the construction manager and strict adherence to the completion dates for designated portions of work are imperative. See specifications for liquidated damages.
17. Demolition is not necessarily limited to only what is shown on this or other drawings or as outlined in the specifications. The intent is to indicate general scope of demolition required to complete the project with the construction documents.
18. Of particular importance is the need for contractor to assure that all persons entering a possibly hazardous area, including superintendents, workers, subcontractors, other contractors, and other persons not under contractual control to the contractor, are aware of procedures.
19. Special attention is called to the requirement of the contractor to comply with dsa requirements in general and with regulations involving asbestos in particular. These regulations are stated in section 5208, asbestos regulations, of title 8, california codes of regulations. This section stipulates that the contractor must initiate reports, tests, signs and other activities under certain job conditions,
20. Contractor is required to avoid providing materials containing asbestos.
21. Staging area shall be located within "extent of work" area.
22. All pipe and duct penetrations through fire rated construction shall be fire stopped and sealed to maintain the required rating.
23. Detail drawings with references to fire-rated assemblies or construction which have been tested by underwriters laboratories, the uniform building code or any other approved testing agency, shall be construed to indicate all construction and procedures contained in the referenced assembly for construction.
24. Contractor to maintain recorded "as-built" information on all work installed during construction and shall be clearly marked in colored pencil on a reproducible print of shop drawings. The contractor shall turn recorded "as built" information over to owner's representative in the form of autocad release 2000 or newer on cd-rom, along with one set of plotted vellums.

## OWNER

SAN RAFAEL CITY SCHOOLS
VAN PELT CONSTRUCTION SERVICES
5030 BUSINESS CENTER DRIVE, SUITE 240 — TEL. (707) 438 - 3790
FAIRFIELD, CA 94534 — FAX (707) 438 - 3793
CONTACT: PETE NORGAARD

## CONSULTANTS

ARCHITECT
HIBSER YAMAUCHI ARCHITECTS, INC. — TEL. (510) 446-2222
300 27TH STREET — FAX (510) 446-2211
OAKLAND, CA 94612
CONTACT: TIM STEELE

CIVIL
UNDERWOOD & ROSENBLUM, INC — TEL. (408) 453-1222
1630 OAKLAND ROAD, SUITE A114 — FAX (408) 453-1207
SAN JOSE, CA 95131
CONTACT: MARK SORENSEN

LANDSCAPE
GATES & ASSOCIATES — TEL. (925) 736-8176
2671 CROW CANYON ROAD — FAX (925) 838-8901
SAN RAMON, CA 94583
CONTACT: LINDA GATES

STRUCTURAL
KAM YAN & ASSOCIATES — TEL. (510) 562-0581
433 HEGENBERGER ROAD STE #204 — FAX (510) 562-0584
OAKLAND, CA 94621
CONTACT: KAM YAN

ELECTRICAL / COMMUNICATIONS
WHM INCORPORATED — TEL. (925) 376-2902
1605 SCHOOL STREET — FAX (925) 376-2904
MORAGA, CA 94556
CONTACT: TIFFANY KANE

MECHANICAL/ PLUMBING
CAPITAL ENGINEERING — TEL. (916) 851-3500
11020 SUN CENTER DRIVE, SUITE 100
RANCHO CORDOVA, CA 95670
CONTACT: THOMAS DUVAL

## ADMINISTRATIVE REQUIREMENTS

1. A copy of Parts 1-6, Title 24, C.C.R shall be kept on the job site at all times.
2. All Construction Change Documents and addenda to be signed by the Architect and the Owner and approved by DSA. CCD are not valid until approved by DSA per Section 4-338, Part 1, Title 24.
3. All test to conform to the requirements of Section 4-335, Part 1, Title 24, and approved T&I sheet.
4. Test of materials and testing laboratory shall be in accordance with Section 4-335 of Part 1, Title 24 and the District shall emply and pay the laboratory. Costs or re-test may be back charged to the Contractor.
5. DSA shall be notified at the start of construction and prior to the placement of concrete per Section 4-331, Part 1, Title 24.
6. Inspector shall be approved by DSA. Inspection shall be in accordance with Section 4-333(b). The duty of the Inspector shall be in accordance with Section 4-342, Part 1, Title 24.
7. Supervisor of construction by DSA shall be in accordance with Section 4-334, Part 1, Title 24.
8. Contractor, Inspector, Architect, and Engineers shall submit verified reports (Form SSS-6) in accordance with Section 4-336 and 4-343, Part 1, Title 24.
9. The Architect and Structural Engineer shall perform their duties in accordance with Section 4-333(a) and 4-341, Part 1, Title 24.
10. The Contractor shall perform his duties in accordance with Section 4-343, Part 1, Title 24.
11. The intent of the drawings and specifications is to construct the school building in accordance with Title 24, C.C.R. Should any conditions develop not covered by the contract documents wherein the finished work will not comply with said Title 24, C.C.R. a Construction Change Document detailing and specifying the required work shall be submitted to and approved by the office of regulation Services before proceeding with the work.

## APPLICABLE CODES

ALL WORK PERFORMED UNDER THIS CONTRACT IS TO CONFORM TO THE FOLLOWING CODES AND REGULATIONS:

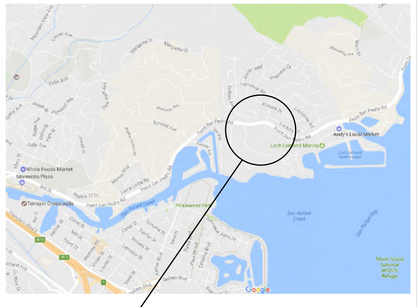
2016 CALIFORNIA BUILDING STANDARDS ADMINISTRATIVE CODE, PART 1, TITLE 24, CALIFORNIA CODE OF REGULATIONS (CCR),
2016 CALIFORNIA BUILDING CODE VOL. 1 & 2 (CBC), PART 2, TITLE 24, CCR (2015 INTERNATIONAL BUILDING CODE (IBC) WITH 2016 CALIFORNIA AMENDMENTS)
2016 CALIFORNIA ELECTRICAL CODE (CEC), PART 3, TITLE 24, CCR (2014 NATIONAL ELECTRICAL CODE WITH 2016 CALIFORNIA AMENDMENTS)
2016 CALIFORNIA MECHANICAL CODE (CMC), PART 4, TITLE 24, CCR (2015 UNIFORM MECHANICAL CODE WITH 2016 CALIFORNIA AMENDMENTS)
2016 CALIFORNIA PLUMBING CODE (CPC), PART 5, TITLE 24, CCR (2015 UNIFORM PLUMBING CODE WITH 2016 CALIFORNIA AMENDMENTS)
2016 CALIFORNIA ENERGY CODE (CEnC) PART 6, TITLE 24, CCR
2016 CALIFORNIA FIRE CODE (CFC), PART 9, TITLE 24, CCR, (2015 INTERNATIONAL FIRE CODE (IFC) WITH 2016 CALIFORNIA AMENDMENTS)
CCR TITLE-19, REGULATIONS OF STATE FIRE MARSHAL
2010 ADA STANDARDS FOR ACCESSIBLE DESIGN

| | | |
|---|---|---|
| NFPA 13 | INSTALLATION OF SPRINKLER SYSTEMS (CA AMMENDED) | 2016 EDITION |
| NFPA 14 | INSTALLATION OF STANDPIPE AND HOSE SYSTEMS | 2013 EDITION |
| NFPA 17 | DRY CHEMICAL EXTINGUISHING SYSTEMS | 2013 EDITION |
| NFPA 17A | WET CHEMICAL EXTINGUISHING SYSTEMS | 2013 EDITION |
| NFPA 20 | INSTALLATION OF STATIONARY PUMPS FOR FIRE PROTECTION | 2016 EDITION |
| NFPA 22 | WATER TANKS FOR PRIVATE FIRE PROTECTION | 2013 EDITION |
| NFPA 24 | INSTALLATION OF PRIVATE FIRE SERVICE MAINS | 2016 EDITION |
| NFPA 72 | NATIONAL FIRE ALARM CODE (CA AMENDED) SEE UL STANDARD 1971 FOR "VISUAL DEVICES" | 2016 EDITION |
| NFPA 80 | FIRE DOOR AND OTHER OPENING PROTECTIVES | 2016 EDITION |
| NFPA 2001 | CLEAN AGENT FIRE EXTINGUISHING SYSTEMS | 2012 EDITION |
| UL 300 | CLASS I HOOD FIRE SUPPRESSION SYSTEMS | 2005 EDITION |
| UL 464 | AUDIBLE SIGNAL APPLIANCES | 2003 EDITION |
| UL 521 | HEAT DETECTORS FOR FIRE PROTECTIVE SIGNALING SYSTEMS | 1999 EDITION |
| ICC 300 | BLEACHERS, FOLDING AND TELESCOPIC SEATING, AND GRANDSTANDS (ICC 300-2012) | 2012 EDITION |

REFERENCE CODE SECTIONS FOR APPLICABLE STANDARDS - 2016 CBC CHAPTER 35 AND 2016 CFC CHAPTER 45

THE ABOVE CODES AND REGULATIONS REFER TO THE LATEST EDITION OR REVISION IN FORCE ON THE DATE OF THE CONTRACT. UNLESS OTHERWISE STATED, NOTHING ON THE DRAWINGS IS TO BE CONSTRUED AS REQUIRING OR PERMITTING WORK THAT IS CONTRARY TO THE LISTED CODES AND REGULATIONS, OR OTHER LOCAL, STATE OR FEDERAL CODES OR REGULATIONS WHICH MAY BE APPLICABLE.

## VICINITY MAP




PROJECT SITE
498 POINT SAN PEDRO ROAD, SAN RAFAEL, CA 94901

## STATEMENT OF GENERAL CONFORMANCE

THESE DRAWINGS AND/OR SPECIFICATIONS AND/OR CALCULATIONS FOR THE ITEMS LISTED BELOW HAVE BEEN PREPARED BY OTHER DEISGN PROFESSIONALS OR CONSULTANTS WHO ARE LICENSED AND/OR AUTHORIZED TO PREPARE SUCH DRAWINGS IN THIS STATE. THESE DOCUMENTS HAVE BEEN EXAMINED BY ME FOR DESIGN INTENT AND APPEAR TO MEET THE APPROPRIATE REQUIREMENTS OF TITLE 24, CALIFORNIA CODE OR REGULATIONS AND THE PROJECT SPECIFICATIONS PREPARED BY ME.

THE ITEMS LISTED BELOW HAVE BEEN COORDINATED WITH MY PLANS AND SPECIFICATIONS AND ARE ACCEPTABLE FOR INCORPORATION INTO THE CONSTRUCTION OF THIS PROJECT FOR WHICH I AM THE INDIVIDUAL DESIGNATED TO BE IN GENERAL RESPONSIBLE CHARGE (OR FOR WHICH I HAVE BEEN DELEGATED RESPONSIBILITY FOR THIS PORTION OF THE WORK).

THE STATEMENT OF GENERAL CONFORMANCE SHALL NOT BE CONSTRUED AS RELIVING ME OF MY RIGHTS, DUTIES, AND RESPONSIBILITIES UNDER SECTIONS 17302 AND 81138 OF THE EDUCATION CODE AND SECTIONS 4-317, 4-336, 4-341, AND 4-344 OF TITLE 24, PART 1.

LIST OF ITEMS REVIEWED AND ACCEPTED:
ALL DRAWINGS LISTED IN THE DRAWING INDEX, SHEET G0.1
ALL CIVIL AND ELECTRICAL DRAWINGS

SIGNATURE OF ARCHITECT/ENGINEER — DATE

C-27362 — 01-31-2019
LICENSE NUMBER — EXP DATE

## INDEX OF DRAWINGS


GENERAL
G0.1 TITLE SHEET
G2.1 TOPOGRAPHIC MAP
G2.2 TOPOGRAPHIC MAP
G2.3 TOPOGRAPHIC MAP
G2.4 TOPOGRAPHIC MAP
G2.5 TOPOGRAPHIC MAP
G2.6 TOPOGRAPHIC MAP

CIVIL
C1 CIVIL DEMO
C2.1 CIVIL GRADING SITE PLAN
C2.2 CIVIL GRADING AND PAVING PLAN
C2.3 CIVIL GRADING AND PAVING PLAN
C3.0 CIVIL PLUMBING PLAN

LANDSCAPE
L1 SITE LAYOUT

ARCHITECTURAL
A1.0 DEMOLITION SITE PLAN
A1.1 SITE PLAN
A1.2 ENLARGED SITE PLANS
A2.0 DEMOLITION FLOOR PLAN
A2.1 FLOOR PLAN
A2.2 ADMINISTRATION FLOOR PLAN
A2.3 TEACHER WORKROOM & KINDERGARTEN FLOOR PLANS
A3.0 ELEVATIONS - BUILDING A
A3.1 ELEVATIONS - ADMINISTRATION MODULAR
A3.2 ELEVATIONS - TEACHER WORKROOM & CLASSROOM MODULAR

STRUCTURAL
S1.0 FOUNDATION/ FIRST FLOOR FRAMING PLAN
S2.0 ROOF FRAMING PLAN

MECHANICAL
M1.0 MECHANICAL LEGEND, NOTES, AND SCHEDULES
M1.1 MECHANICAL EQUIPMENT SCHEDULES
M2.0 MECHANICAL DEMOLITION FLOOR PLAN
M2.1 MECHANICAL FLOOR PLAN
M2.2 MECHANICAL ADMINISTRATION FLOOR PLAN
M2.3 MECHANICAL TEACHER WORKROOM AND KINDERGARTEN FLOOR PLANS

ELECTRICAL
E0.1 ELECTRICAL NOTES SYMBOLS, AND DETAILS
E0.2 ELECTRICAL ONE LINE DIAGRAM AND SCHEDULES
E0.3 ELECTRICAL DETAILS
E0.4 ELECTRICAL DETAILS
E0.5 ELECTRICAL LOW VOLTAGE DIAGRAMS
E1.1 ELECTRICAL DEMOLITION SITE POWER PLAN
E1.2 ELECTRICAL SITE POWER PLAN
E1.3 ELECTRICAL DEMOLITION SITE SIGNAL PLAN
E1.4 ELECTRICAL SITE SIGNAL PLAN
E2.0 ELECTRICAL DEMOLITION PLAN - BUILDING A
E2.1 ELECTRICAL PLAN - BUILDING A
E2.2 ELECTRICAL PLAN - ADMIN BUILDING
E2.3 ELECTRICAL PLAN - MODULAR BUILDINGS
E7.1 ELECTRICAL LOW VOLTAGE DIAGRAMS
E7.2 ELECTRICAL LOW VOLTAGE DIAGRAMS

PLUMBING
P1.0 PLUMBING LEGEND AND SCHEDULES
P1.1 PLUMBING SITE PLAN
P2.0 PLUMBING DEMOLITION FLOOR PLAN
P2.1 PLUMBING FLOOR PLAN
P2.2 PLUMBING ADMINISTRATION FLOOR PLAN
P2.3 PLUMBING TEACHER WORKROOM AND KINDERGARTEN FLOOR PLANS


## PROJECT SCOPE

1. CONSTRUCT (3) NEW MODULAR BUILDINGS, DSA PC #02-113850, WITH A TOTAL AREA OF 12,043 SQUARE FEET. NEW BUILDINGS INCLUDE:
   a. ADMINISTRATION BUILDING , 40'X84', 3360 SQUARE FEET
   b. KINDERGARTEN WING 1 (WEST), 38'X120'-6", 4579 SQUARE FEET
   c. KINDERGARTEN WING 2 (EAST), 38'X108', 4104 SQUARE FEET
2. MODERNIZE BUILDING A:
   a. GUT AND DEMOLISH EXISTING INTERIOR PARTITIONS, MECHANICAL AND ELECTRICAL SYSTEMS, AND FINISHES IN THE EXISTING ADMINISTRATIVE OFFICES AND KINDERGARTEN AND REPLACE WITH NEW CLASSROOM AND OFFICES.
   b. MODERNIZE EXISTING CLASSROOMS WITH NEW FLOOR WALL AND CEILING FINISHES, UPDATE CASEWORK FOR ACCESSIBILITY
3. MODIFY SITE:
   a. GRADE AND PREP SITE FOR NEW BUILDINGS AND ASSOCIATED UTILITIES; PROVIDE NEW FLATWORK, FENCING AND SITE AMENITIES FOR NEW AND MODIFIED BUILDINGS.
   b. REMOVE (8) EXISTING PORTABLES AND REGRADE AC PAVING IN AREA WHERE PORTABLES HAVE BEEN REMOVED
   c. INSTALL (2) NEW PLAY STRUCTURES WITH SAFETY SURFACING
   d. RESTRIPE AND EXPAND PARKING LOT
4. THIS PROJECT INCLUDES THE FOLLOWING ADDITIVE ALTERNATES:
   a. REPLACE HEATING UNITS IN BUILDING A CLASSROOMS WITH NEW SPLIT SYSTEM HVAC SYSTEMS
   b. REPLACE BUILDING A WINDOWS AND EXTERIOR DOORS
   c. REPLACE THE AC PAVING IN THE EXPANDED PARKING LOT AREA
   d. REPLACE THE CEILINGS IN THE EXISTING BUILDING A CLASSROOMS

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Revisions

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Engineer Of Record:

Architect of Record:
LICENSED ARCHITECT — RAMTHUN A. HIBSER — C-27362 — 01-31-17 RENEWAL DATE — STATE OF CALIFORNIA

HIBSER YAMAUCHI ARCHITECTS, INC
300 - 27th Street
Oakland, CA 94612
510.446.2222 tel | 510.446.2211 fax

HY ARCHITECTS JOB NUMBER 4786

Facility

Project
SAN PEDRO ELEMENTARY SCHOOL
498 POINT SAN PEDRO ROAD
SAN RAFAEL, CA 94901

Sheet Title
TITLE SHEET

Scale N.T.S.
Drwn By AA
Chckd By TS
Issue Date 8/9/17

Client Ref No.
Permit No.
Sheet G0.1

FILE NAME: Y:\San Rafael City Schools\4786 San Pedro Elementary School\05 Current Drawings\SD Package\ G0.1 TITLE SHEET _SD Package.dwg REV. DATE & TIME: Wed, 9 Aug 2017 10:59:20 USERNAME: aaloizo

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**TOPOGRAPHIC NOTES**

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THE LOCATIONS OF EXISTING UNDERGROUND FACILITIES SHOWN ON THESE DRAWINGS ARE APPROXIMATE AND ARE BASED ON OBSERVED TOPOGRAPHIC SURFACE FEATURES AND AVAILABLE INFORMATION. THE PROFESSIONAL PREPARING THIS MAP ASSUMES NO RESPONSIBILITY FOR THE ACCURACY OF THESE FACILITIES OR FOR THE INADVERTENT OMISSION OF RELATED INFORMATION.

TREE DIAMETERS ARE MEASURED AT CHEST HEIGHT (48"). DRIPLINE DIAMETERS AND TREE SPECIES ARE APPROXIMATE ONLY AND SHOULD BE VERIFIED BY A CERTIFIED ARBORIST.

BENCHMARK: MAG NAIL, LOCATION SHOWN HEREON, ELEVATION 33.71 FEET (DATUM NAVD 88 BY GPS OBSERVATIONS UTILIZING THE CALIFORNIA SURVEY & DRAFTING SUPPLY VSN).

BASIS OF BEARINGS: UNIT ONE SAN PEDRO COVE, BOOK 17 OF RECORD MAPS AT PAGE 58, MARIN COUNTY RECORDS

FIELD SURVEY DATE: FEBRUARY 24, 2017.

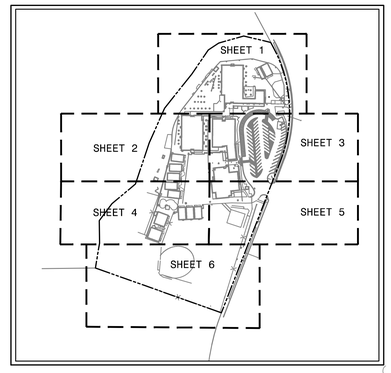
**ABBREVIATIONS**

| | |
|---|---|
| AC | ASPHALT CONCRETE |
| APN | ASSESSOR'S PARCEL NUMBER |
| BFP | BACKFLOW PREVENTOR |
| CB | CATCH BASIN |
| COM | COMMUNICATION |
| E | ELECTRIC |
| ELEV | ELEVATION |
| EM | ELECTRIC METER |
| EP | EDGE OF PAVEMENT |
| EUC | EUCALYPTUS |
| FF | FINISHED FLOOR |
| G | GAS |
| GB | GRADE BREAK |
| GI | GRATE INLET |
| IN | INCH |
| INV | BOTTOM INSIDE OF PIPE |
| MAD | MADRONE |
| MH | MANHOLE |
| OH | OVERHEAD LINE |
| SD | STORM DRAIN |
| SDMH | STORM DRAIN MANHOLE |
| SDCO | STORM DRAIN CLEAN OUT |
| SS | SANITARY SEWER |
| SSMH | SANITARY SEWER MANHOLE |
| SSCO | SANITARY SEWER CLEAN OUT |
| TBM | TEMPORARY BENCHMARK |
| TEL | TELEPHONE |
| TC | TOP FACE OF CURB |
| TG | TOP OF GRATE |
| TW | TOP OF WALL |
| TYP | TYPICAL |
| TV | TELEVISION |
| UB | UTILITY BOX |
| W | WATER |
| WF | WATER FOUNTAIN |
| WM | WATER METER |
| UT | UTILITY |
| VLT | VAULT |

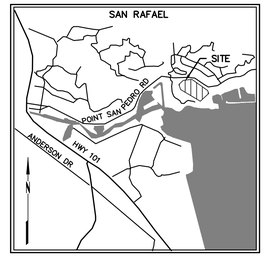
**SYMBOLS & LEGEND**

EXISTING

- BENCHMARK
- VALVE
- FIRE HYDRANT
- SIGN
- UTILITY POLE
- TREE
- PROPERTY LINE
- GRADE BREAK
- FLOW LINE
- FENCE
- STORM DRAIN
- SANITARY SEWER
- WATER
- OVERHEAD UTILITY LINE
- UNDERGROUND UTILITY LINE
- UNDERGROUND ELECTRIC LINE
- UNDERGROUND GAS LINE
- UNDERGROUND TELECOM LINE
- CONCRETE

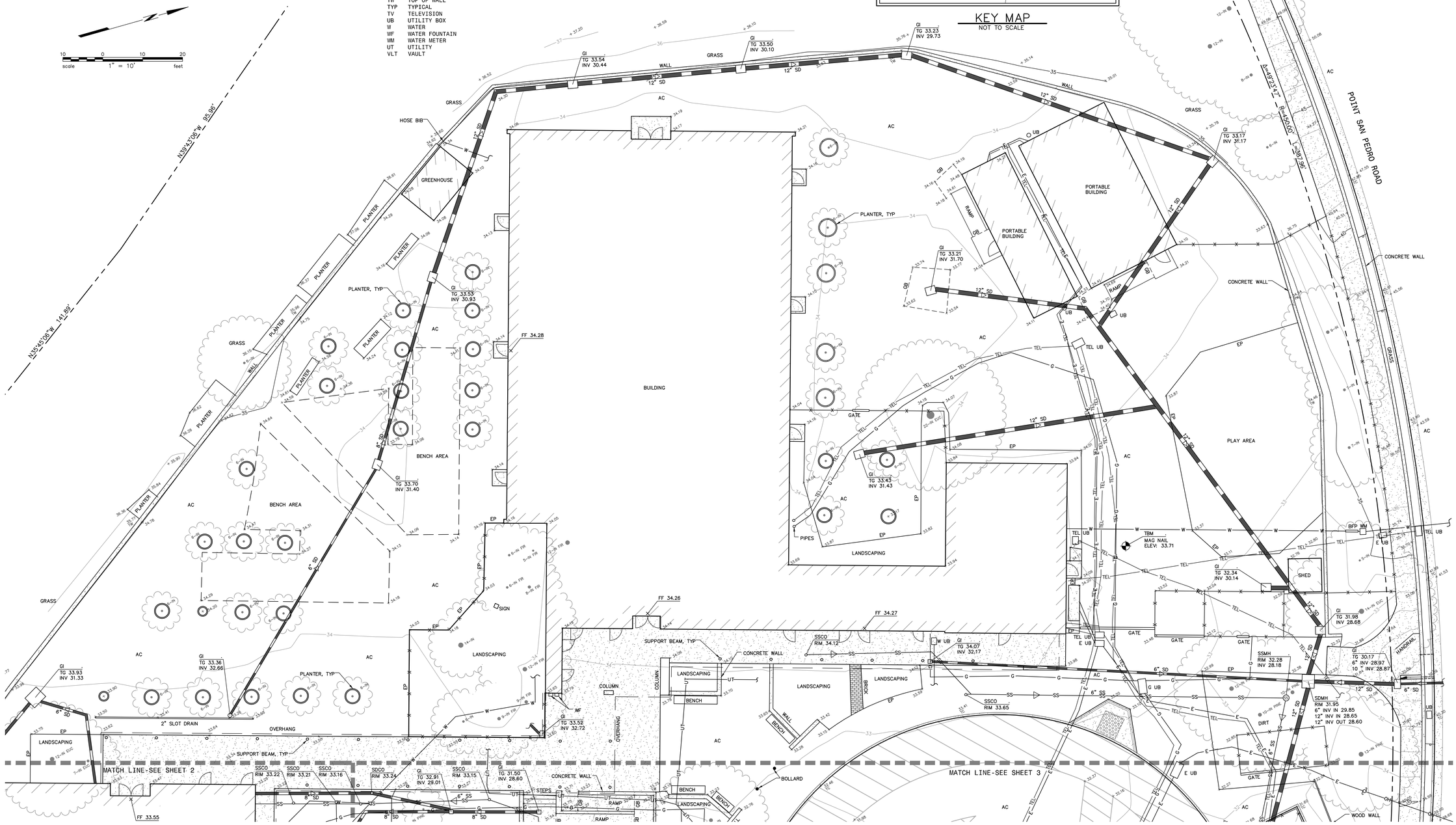



KEY MAP
NOT TO SCALE




VICINITY MAP
NOT TO SCALE




Plot Apr 03, 2017 at 12:29pm

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04/03/2017

JASON KIRCHMANN PLS 8806

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(415) 930-7900 FAX: (415) 930-7979

**SAN PEDRO ELEMENTARY SCHOOL**
APN 016-213-13
498 POINT SAN PEDRO ROAD, SAN RAFAEL CA

**TOPOGRAPHIC MAP**

| No. | Revisions |
|---|---|
| | |

Date: APRIL 2017
Scale: AS SHOWN
Design: N/A
Drawn: MRK
Approved: JAK
Job No: 20169133-SD

Drawing Number:

**G2.1**

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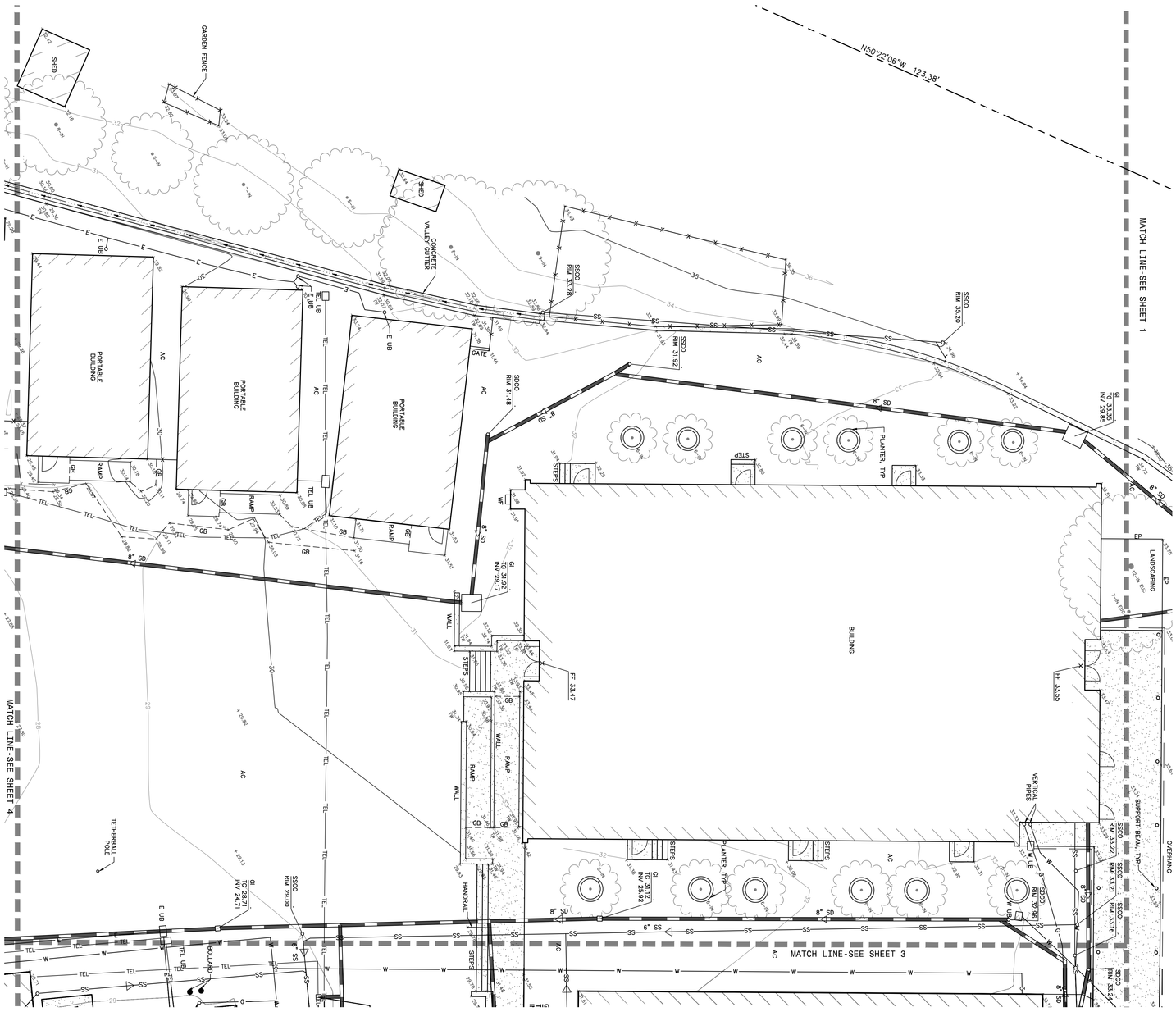
MATCH LINE-SEE SHEET 1
MATCH LINE-SEE SHEET 4
MATCH LINE-SEE SHEET 3
N50°22'06"W 123.38'
SHED
GARDEN FENCE
SHED
CONCRETE VALLEY GUTTER
SSCO RIM 33.28
SSCO RIM 33.20
SSCO RIM 31.92
SSCO RIM 31.48
GATE
PORTABLE BUILDING
PORTABLE BUILDING
PORTABLE BUILDING
RAMP
RAMP
RAMP
AC
AC
AC

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20169133-SDPD-San Pedro Rev2.dwg

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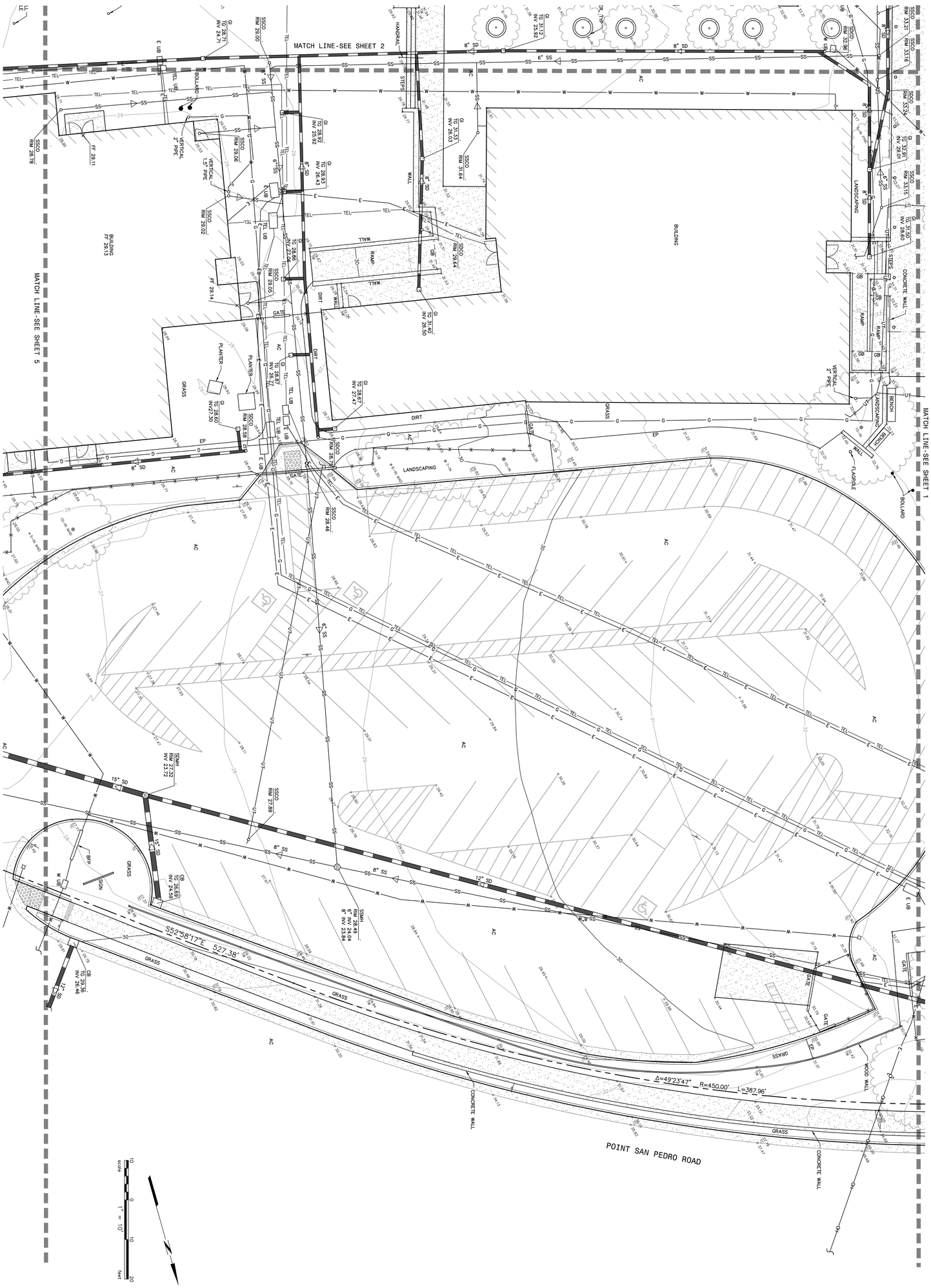


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| Drawing Number: G2.3 | Date: APRIL 2017 | No. | Revisions |
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| | Drawn: MRK | | |
| | Approved: JAK | | |
| | Job No: 20169133-50 | | |

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N74°47'06"W 73.42'

N37°33'06"W 69.40'

N24°10'06"W 98.85'

SCALE 1" = 10'

MATCH LINE-SEE SHEET 2

MATCH LINE-SEE SHEET 6

MATCH LINE-SEE SHEET 5

GRASS

PORTABLE BUILDING FF 28.33

PORTABLE BUILDING FF 29.21

PORTABLE BUILDING FF 27.65

PORTABLE BUILDING FF 27.50

PORTABLE BUILDING FF 27.77

PORTABLE BUILDING FF 30.12

PORTABLE BUILDING

PORTABLE SHED

CONTAINER

TRANSFORMER PAD

ROCK WALL

SAND BOX

PLAY AREA

PLANTER

BASKETBALL HOOP

TETHERBALL POLE

AC

RAMP

STEP

GATE

EP

SSCO RIM 27.68

SSCO RIM 28.50

GI TO 27.97 INV 23.27

GI TO 26.21 INV 21.81

GI TO 26.24 8" INV 21.84 10" INV 21.74

8" SD

10" SD

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| | Approved: JAK | | |
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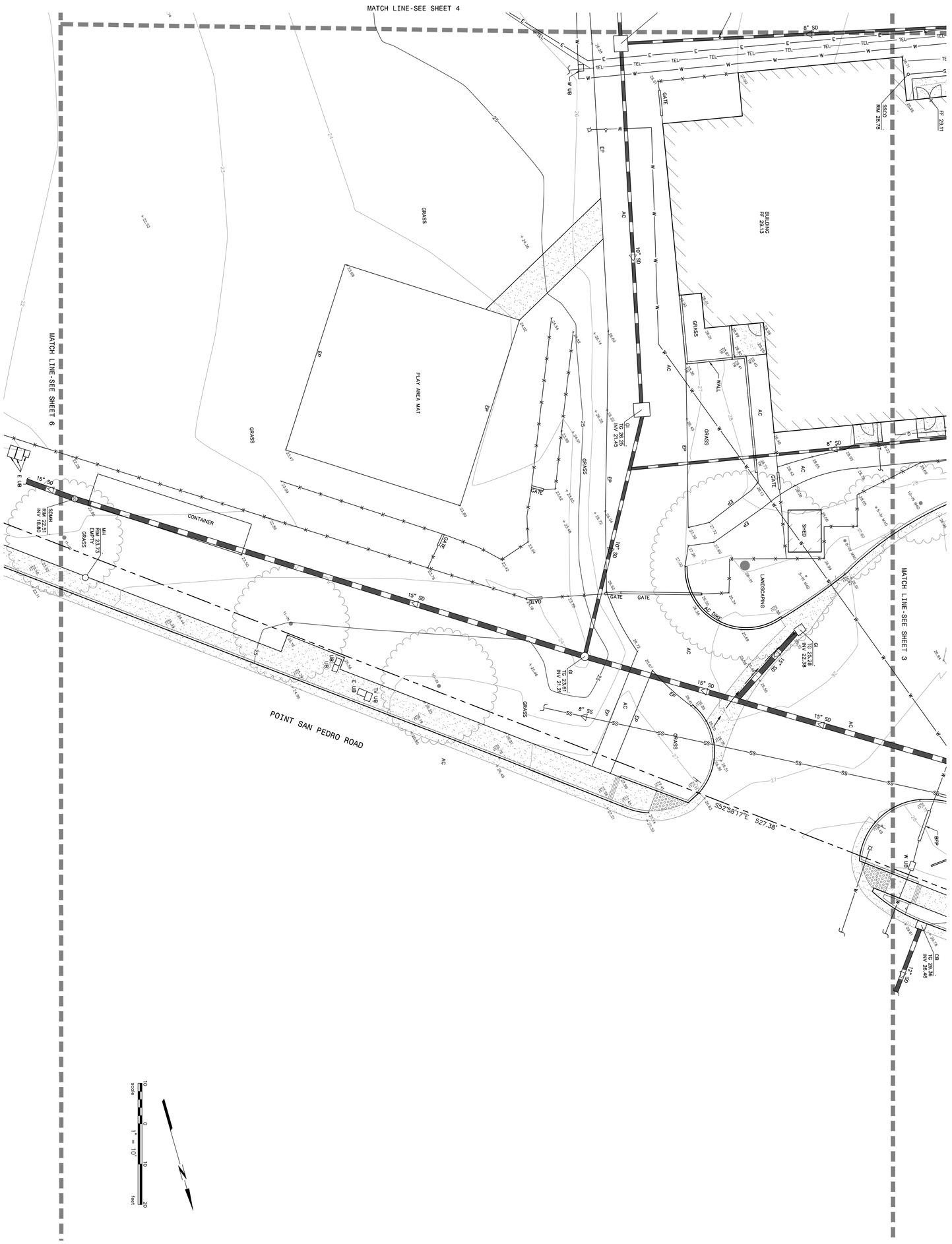


**G2.5**

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**SAN PEDRO ELEMENTARY SCHOOL**
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**498 POINT SAN PEDRO ROAD, SAN RAFAEL CA**

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GRASS
BLEACHERS
GATE
DIRT
MATCH LINE-SEE SHEET 4
MATCH LINE-SEE SHEET 5
S35°20'14"W 435.99'
SWALE
S52°58'17"E 527.38'
POINT SAN PEDRO ROAD
AC
CONCRETE PAD WITH TRANSFORMER
EM ON POST
E UB
W UB
STORM MH RIM 22.55 INV 18.90
MH RIM 22.73 EMPTY
scale 1" = 10' feet

| Drawing Number: G2.6 | | | |
|---|---|---|---|
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**SAN PEDRO ELEMENTARY SCHOOL**
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**498 POINT SAN PEDRO ROAD, SAN RAFAEL CA**

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GRAPHIC SCALE
30 0 15 30 60 120
( IN FEET )
1 inch = 30 ft.

## DEMOLITION LEGEND

- REMOVE EXISTING PAVEMENT
- X — REMOVE EXISTING TREE
- XXXXXXXXXXXXXXX — REMOVE EXISTING CURB
- >>>>>>>>>>>>>>> — REMOVE EXISTING FENCE
- ////////////// — REMOVE EXISTING UNDERGROUND UTILITY
- ——— ——— — LIMIT OF SITE DEMOLITION, CLEARING AND GRADING
- – – – – – – – — SAW CUT LINE
- ——x——— — TEMPORARY CONSTRUCTION CHAIN LINK FENCE

| | |
|---|---|
| AC | ASPHALT CONCRETE |
| AD | AREA DRAIN |
| CB | CATCH BASIN |
| CO | CLEAN OUT |
| CONC. | CONCRETE |
| EX., EXIST. | EXISTING |
| TYP. | TYPICAL |

## GENERAL NOTES

1. THE CONTRACTOR SHALL LAY OUT THE WORK, SETTING GRADE STAKES, ESTABLISHING LINES, BASE LINES, ELEVATIONS AND OTHER REFERENCE MARKERS AND INFORMATION NECESSARY TO COMPLETE THE WORK AND SHALL BE RESPONSIBLE FOR THE ACCURACY THEREOF.

2. ANY INCONSISTENCIES IN EXISTING OR PROPOSED ELEVATIONS SHALL BE BROUGHT TO THE NOTICE OF THE OWNER'S REPRESENTATIVE FOR RESOLUTION PRIOR TO CONSTRUCTION OR AS SOON AS DISCOVERED.

3. IN THE EVENT THAT ANY UNKNOWN UNDERGROUND TANKS OR STRUCTURES OR UTILITY LINES ARE DISCOVERED ON THE SITE, THE CONTRACTOR SHALL NOTIFY THE OWNER'S REPRESENTATIVE TO DETERMINE THE DISPOSITION OF THE STRUCTURE.

4. CONTRACTOR SHALL IMPORT REQUIRED MATERIALS OR EXPORT EXCESS AS REQUIRED TO ESTABLISH PLAN GRADES. EXCESS MATERIAL IF ANY SHALL BE DISPOSED OFF-SITE IN A LEGAL MANNER AT CONTRACTOR'S EXPENSE.

5. EXISTING WATER, STORM AND SANITARY INVERTS SHALL BE EXPOSED AND VERIFIED PRIOR TO ANY NEW CONSTRUCTION.

6. CONTRACTOR SHALL SALVAGE ALL IRRIGATION SPRINKLER HEADS & CONTROLS, AND TURN THEM OVER TO THE SCHOOL DISTRICT UNHARMED. THE SCHOOL DISTRICT SHALL BE RESPONSIBLE FOR REDESIGNING AND RECONSTRUCTION OF IRRIGATION SYSTEMS. HOWEVER, THE CONTRACTOR SHALL BE RESPONSIBLE FOR REMOVING, CAPPING OFF, AND SHUTTING OFF OF EXISTING IRRIGATION LINES AS NECESSARY TO DO THEIR WORK.

THE FOLLOWING SECTIONS OF THE STANDARD SITE WORK SPECIFICATIONS FOR THE CONSTRUCTION OF THIS PROJECT ARE APPLICABLE TO THE WORK SHOWN ON THIS DRAWING:

SECTION 311000 – SITE CLEARING

PROTECT RETAINING WALL
DEMO SAFETY SURFACING
PLAY STRUCTURES TO BE DEMOLISHED
SHED TO BE RELOCATED
CAP SD LINE, TYP.
STORM DRAIN AND GRATES INLET TO REMAIN
SAWCUT LIMIT
PORTABLES AND RAMPS TO BE RELOCATED
EX. FIRE HYDRANT TO REMAIN
PROTECT UTILITY BOXES
EX. TREES AND RAISED PLANTERS TO REMAIN AND PROTECT
PROTECT ALL ENTITIES OUTSIDE DEMO AREA, INCLUDING WALL.
SALVAGE CUSTOM CERAMIC TILE
REMOVE EX. STRIPPING
PROTECT GAS LINE
PROTECT SD AND INLET
EX. TREES AND RAISED PLANTERS TO REMAIN AND PROTECT
EX. TREES AND RAISED PLANTERS TO REMAIN AND PROTECT
AC PAVING TO REMOVED
PORTABLE TO BE DEMO: AFTER COMPLETION OF CLASSROOM/ADMIN BLDG.
RELOCATED GREENHOUSE
EX. BLDG TO BE DEMOLISHED
EX. BLDG TO BE REMOVED
EX. BLDG TO BE DEMOLISHED
APPROX. LOCATION EXISTING UNDERGROUND UTILITY HIGH VOLTAGE
PROTECT ALL ENTITIES OUTSIDE DEMO AREA, INCLUDING WALL.
" TO BE RELOCATED "
HEAD START
A
B
C
MPR
CL
KINDERGARTEN DROP-OFF
MUSIC
NEWCOMERS
EXISTING PLAYFIELD TO REMAIN

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PROJECT No. J17013 PLOT DATE: 08.08.2017


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civil engineers and surveyors
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(408) 453-1222
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Architect of Record: LICENSED ARCHITECT, CHRISTOPHER A. HIBSER, C-27362, 01-31-17 RENEWAL DATE, STATE OF CALIFORNIA


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300 - 27th Street
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HY ARCHITECTS JOB NUMBER 4786

Facility
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498 POINT SAN PEDRO ROAD
SAN RAFAEL, CA 94901

Project
ADMINISTRATION & KINDERGARTEN MODULAR WING

Sheet Title
SITE DEMOLITION PLAN

| | |
|---|---|
| Scale | Client Ref No. |
| Drwn By | Permit No. |
| Chckd By | Sheet C1 |
| Issue Date 5/2/17 | |

FILE NAME: F:\2017\J17013 San Pedro ES\Dwg\J17013DSN.dwg REV DATE & TIME: Tue, 8 Aug 2017 17:35:19 USERNAME: USER13

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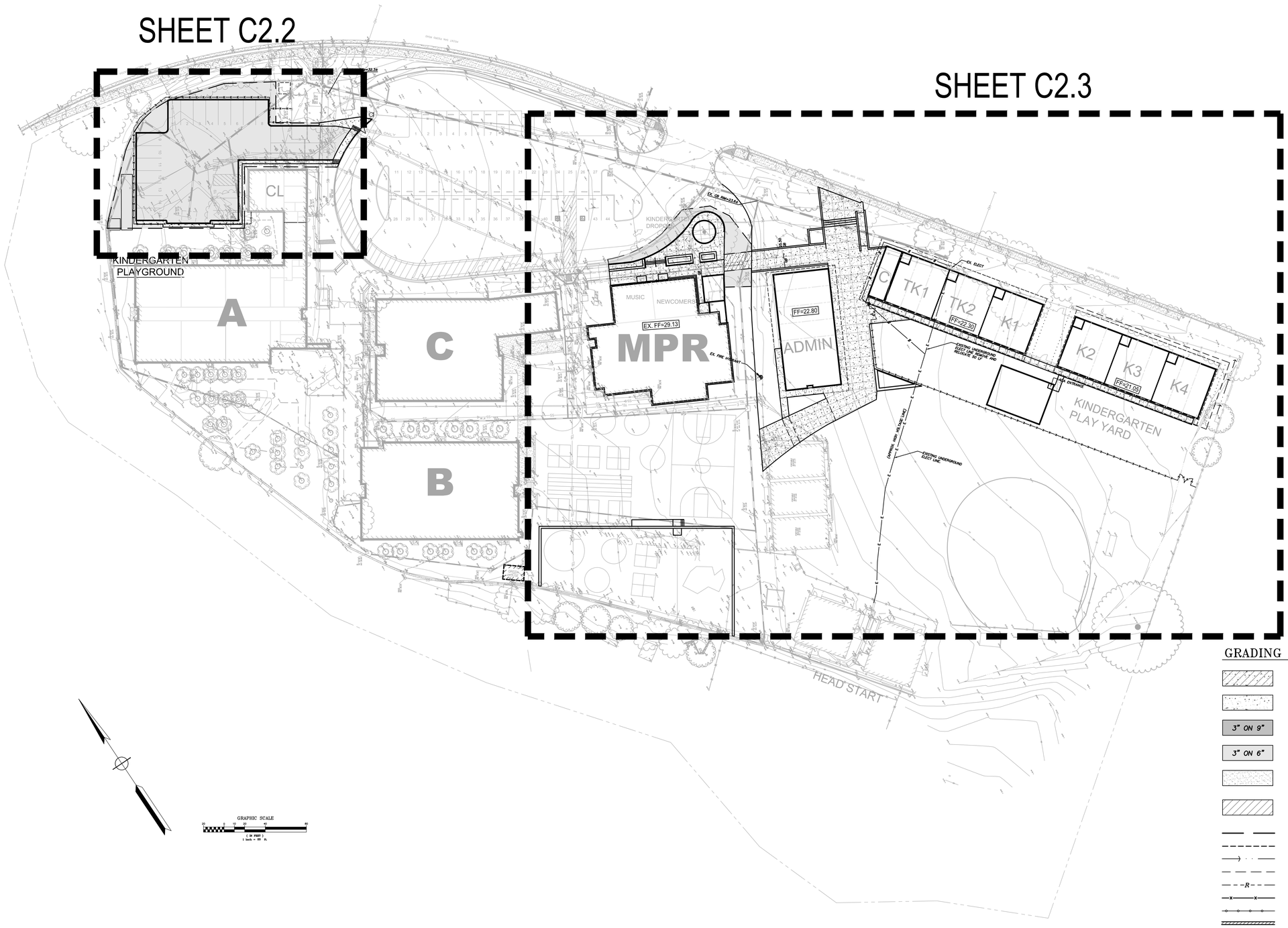
SHEET C2.2

SHEET C2.3




GRAPHIC SCALE

( IN FEET )
1 inch = 10 ft.

## GRADING & PAVING LEGEND

| | |
|---|---|
| | NEW CONCRETE SLAB – THICKENED SECTION (6" REINFORCED PCC ON 6" CLASS 2 AB ON 6" RECOMPACTED SUBGRADE (90%)) |
| | NEW CONCRETE SLAB (4" REINFORCED PCC ON 4" CLASS 2 AB ON 6" RECOMPACTED SUBGRADE (90%)) |
| 3" ON 9" | NEW AC PAVEMENT – TRAFFIC (3" AC ON 9" CLASS 2 AB ON 6" RECOMPACTED SUBGRADE (95%)) |
| 3" ON 6" | NEW AC PAVEMENT (3" AC ON 6" CLASS 2 AB ON 6" RECOMPACTED SUBGRADE (95%)) |
| | DECOMPOSED GRANITE (6" CLASS 2 AB ON 6" RECOMPACTED SUBGRADE (95%)) |
| | VARIABLE THICKNESS ASPHALT CONCRETE OVERLAY TO BE CONSTRUCTED AFTER BUILDING AND RAMPS ARE INSTALLED. SLOPES TO BE 2% WITHIN LANDING AREA, AND BETWEEN 1% AND 5% EVERYWHERE ELSE. |
| | LIMIT OF GRADING |
| | SAW CUT LINE |
| | DRAINAGE FLOW LINE |
| | GRADE BREAK LINE |
| | RIDGE LINE |
| | NEW FENCE LINE |
| | NEW HANDRAIL |
| | NEW RETAINING WALL |
| 99 | FINISH GRADE CONTOUR |
| AC | ASPHALT CONCRETE |
| AD | AREA DRAIN |
| C, PCC, CONC. | PORTLAND CEMENT CONCRETE |
| CB | CATCH BASIN |
| COTG/SDCO/SSCO | CLEAN OUT TO GRADE |
| EX., EXIST. | EXISTING |
| FF | FINISH FLOOR |
| FH | FIRE HYDRANT |
| FL | FLOW LINE |
| G | GROUND |
| GB | GRADE BREAK |
| JB | JUNCTION BOX |
| SDMH | STORM DRAIN MAINTENANCE HOLE |
| SSMH | SANITARY SEWER MAINTENANCE HOLE |
| TC | TOP OF CURB |
| TW | TOP OF WALL |
| TYP. | TYPICAL |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DATE


UNDERWOOD & ROSENBLUM, INC.
civil engineers and surveyors
1630 Oakland Road, Suite A114, San Jose, CA 95131
(408) 453-1222 www.uandr.com



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Engineer Of Record: REGISTERED PROFESSIONAL ENGINEER, FRANK M. ROSENBLUM, Exp. 3-31-18, No. 42857, CIVIL, STATE OF CALIFORNIA

Architect of Record: LICENSED ARCHITECT, LINCOLN A. HIBSER, C-27362, 01-31-17 RENEWAL DATE, STATE OF CALIFORNIA


HIBSER YAMAUCHI ARCHITECTS, INC.
300 - 27th Street
Oakland, CA 94612
510.446.2222 tel | 510.446.2211 fax


HY ARCHITECTS JOB NUMBER 4786

Facility

SAN PEDRO ELEMENTARY SCHOOL
498 POINT SAN PEDRO ROAD
SAN RAFAEL, CA 94901

Project

CLASSROOM/ ADMINISTRATION BUILDING MODERNIZATION

Sheet Title

SITE PLAN

| | |
|---|---|
| Scale | Client Ref No. |
| Drwn By | Permit No. |
| Chckd By | Sheet |
| Issue Date 5/2/17 | C2.1 |

FILE NAME: F:\2017\J17013 San Pedro ES\Dwg\ J17013DSN.dwg REV. DATE & TIME: Tue, 8 Aug 2017 17:30:54 USERNAME: USER13

8/8/2017 5:30:48 PM, USER13

GRAPHIC SCALES: 1/16" = 1'-0" | 1/8" = 1'-0" | 1/4" = 1'-0" | 1/2" = 1'-0" | 3/4" = 1'-0" | 1" = 1'-0" | 1-1/2" = 1'-0" | 3" = 1'-0"

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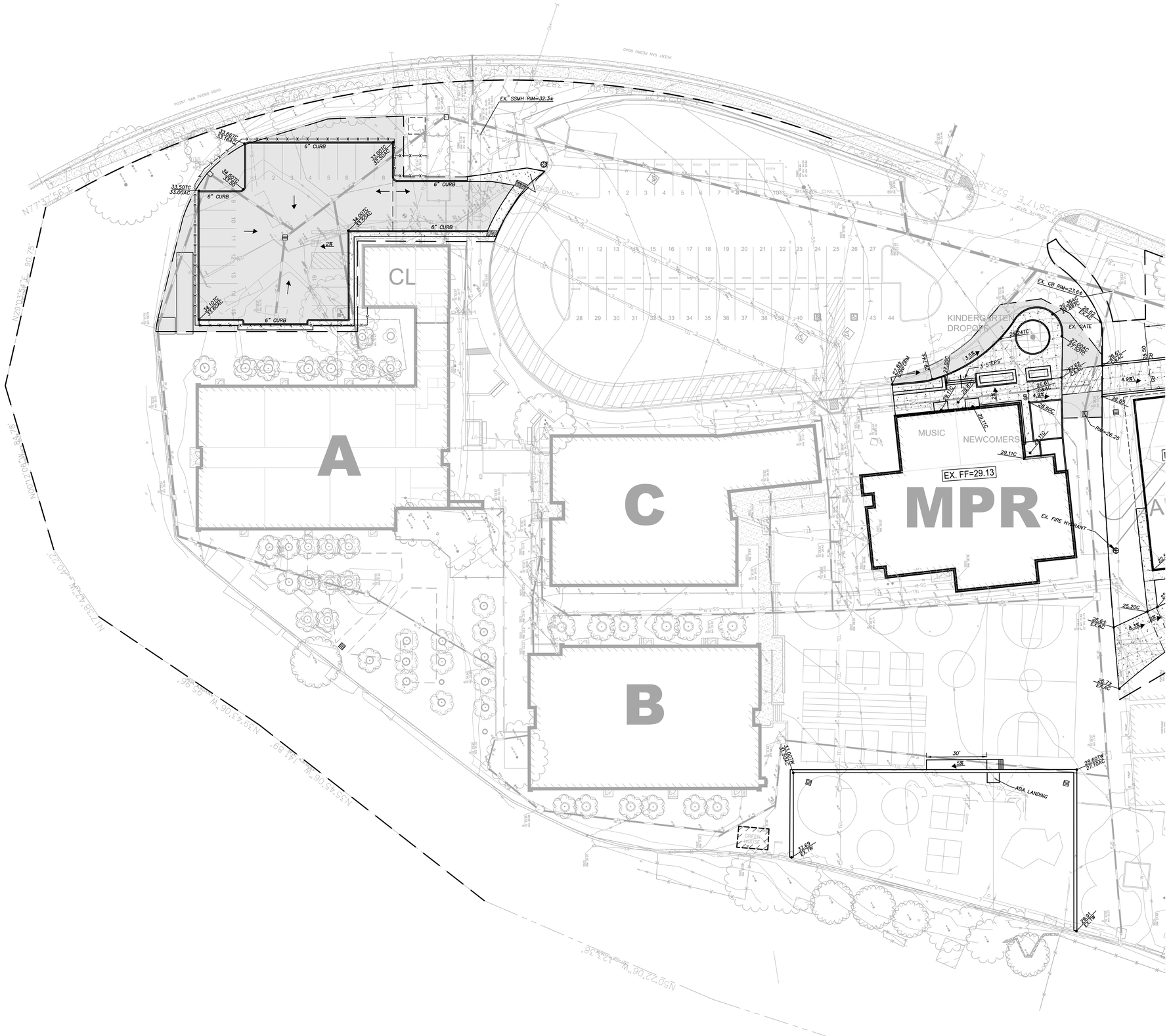


## GENERAL NOTES

1. THE CONTRACTOR SHALL LAY OUT THE WORK, SETTING GRADESTAKES, ESTABLISHING LINES, BASE LINES, ELEVATIONS AND OTHER REFERENCE MARKERS AND INFORMATION NECESSARY TO COMPLETE THE WORK AND SHALL BE RESPONSIBLE FOR THE ACCURACY THEREOF.

2. ANY INCONSISTENCIES IN EXISTING OR PROPOSED ELEVATIONS SHALL BE BROUGHT TO THE NOTICE OF THE OWNER'S REPRESENTATIVE FOR RESOLUTION PRIOR TO CONSTRUCTION OR AS SOON AS DISCOVERED.

3. IN THE EVENT THAT ANY UNKNOWN UNDERGROUND TANKS OR STRUCTURES OR UTILITY LINES ARE DISCOVERED ON THE SITE, THE CONTRACTOR SHALL NOTIFY THE OWNER'S REPRESENTATIVE TO DETERMINE THE DISPOSITION OF THE STRUCTURE.

4. CONTRACTOR SHALL IMPORT REQUIRED MATERIALS OR EXPORT EXCESS AS REQUIRED TO ESTABLISH PLAN GRADES. EXCESS MATERIAL IF ANY SHALL BE DISPOSED OFF-SITE IN A LEGAL MANNER AT CONTRACTOR'S EXPENSE.

5. EXISTING WATER, STORM AND SANITARY INVERTS SHALL BE EXPOSED AND VERIFIED PRIOR TO ANY NEW CONSTRUCTION.

6. CONTRACTOR SHALL SALVAGE ALL IRRIGATION SPRINKLER HEADS & CONTROLS, AND TURN THEM OVER TO THE SCHOOL DISTRICT UNHARMED. THE SCHOOL DISTRICT SHALL BE RESPONSIBLE FOR REDESIGNING AND RECONSTRUCTION OF IRRIGATION SYSTEMS. HOWEVER, THE CONTRACTOR SHALL BE RESPONSIBLE FOR REMOVING, CAPPING OFF, AND SHUTTING OFF OF EXISTING IRRIGATION LINES AS NECESSARY TO DO THEIR WORK.

THE FOLLOWING SECTIONS OF THE STANDARD SITE WORK SPECIFICATIONS FOR THE CONSTRUCTION OF THIS PROJECT ARE APPLICABLE TO THE WORK SHOWN ON THIS DRAWING:

SECTION 311000 – SITE CLEARING
SECTION 312000 – EARTHMOVING
SECTION 321216 – ASPHALT PAVING
SECTION 321312 – CONCRETE PAVING
SECTION 321309 – REINFORCING STEEL

## GRADING & PAVING LEGEND

- NEW CONCRETE SLAB – THICKENED SECTION (6" REINFORCED PCC ON 6" CLASS 2 AB ON 6" RECOMPACTED SUBGRADE (90%))
- NEW CONCRETE SLAB (4" REINFORCED PCC ON 4" CLASS 2 AB ON 6" RECOMPACTED SUBGRADE (90%))
- 3" ON 9" — NEW AC PAVEMENT – TRAFFIC (3" AC ON 9" CLASS 2 AB ON 6" RECOMPACTED SUBGRADE (95%))
- 3" ON 6" — NEW AC PAVEMENT (3" AC ON 6" CLASS 2 AB ON 6" RECOMPACTED SUBGRADE (95%))
- DECOMPOSED GRANITE (6" CLASS 2 AB ON 6" RECOMPACTED SUBGRADE (95%))
- VARIABLE THICKNESS ASPHALT CONCRETE OVERLAY TO BE CONSTRUCTED AFTER BUILDING AND RAMPS ARE INSTALLED. SLOPES TO BE 2% WITHIN LANDING AREA, AND BETWEEN 1% AND 5% EVERYWHERE ELSE.
- LIMIT OF GRADING
- SAW CUT LINE
- DRAINAGE FLOW LINE
- GRADE BREAK LINE
- RIDGE LINE
- NEW FENCE LINE
- NEW HANDRAIL
- NEW RETAINING WALL
- 99 — FINISH GRADE CONTOUR
- AC — ASPHALT CONCRETE
- AD — AREA DRAIN
- C, PCC, CONC. — PORTLAND CEMENT CONCRETE
- CB — CATCH BASIN
- COTG/SDCO/SSCO — CLEAN OUT TO GRADE
- EX., EXIST. — EXISTING
- FF — FINISH FLOOR
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- JB — JUNCTION BOX
- SDMH — STORM DRAIN MAINTENANCE HOLE
- SSMH — SANITARY SEWER MAINTENANCE HOLE
- TC — TOP OF CURB
- TW — TOP OF WALL
- TYP. — TYPICAL

GRAPHIC SCALE
20 0 10 20 40 80
( IN FEET )
1 inch = 20 ft.


SAN RAFAEL CITY SCHOOLS
310 NOVA ALBION WAY, SAN RAFAEL, CALIFORNIA 94903
TEL: 415.492.3200


Revisions

| No. | Revisions | By | Date | Appr. |
|---|---|---|---|---|
| | | | | |

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CLASSROOM/ ADMINISTRATION BUILDING MODERNIZATION

Sheet Title
SITE GRADING AND PAVING PLAN

| | |
|---|---|
| Scale | Client Ref No. |
| Drwn By | Permit No. |
| Chckd By | Sheet C2.2 |
| Issue Date 5/2/17 | |

FILE NAME: F:\2017\J17013 San Pedro ES\Dwg\J17013DSN.dwg REV. DATE & TIME: Tue, 8 Aug 2017 17:25:52 USERNAME: USER13

8/8/2017 5:25:47 PM, USER13

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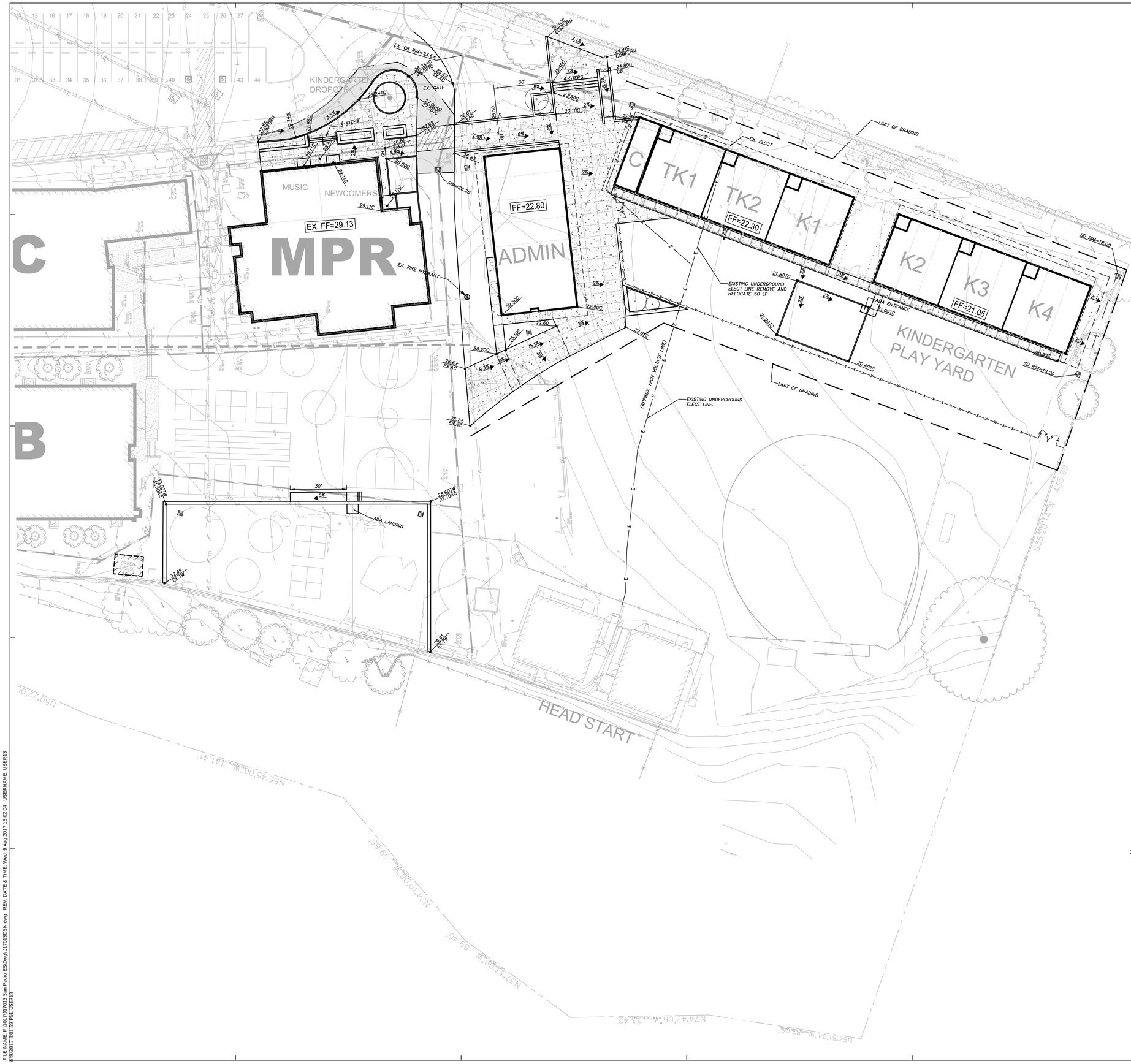


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PROJECT No. J17013 PLOT DATE: 08.08.2017


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Architect of Record: LICENSED ARCHITECT — RICARDO A HINOJOSA — C-27362 — 01-31-17 RENEWAL DATE — STATE OF CALIFORNIA


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Project
ADMINISTRATION & KINDERGARTEN MODULAR WING

Sheet Title
SITE GRADING AND PAVING PLAN

Scale
Drwn By
Chckd By
Issue Date 5/2/17

Client Ref No.
Permit No.
Sheet
C2.3

FILE NAME: F:\2017\J17013 San Pedro ES\Dwg\J17013DSN.dwg REV. DATE & TIME: Wed, 9 Aug 2017 15:02:04 USERNAME: USER13
8/9/2017 3:01:39 PM, USER13

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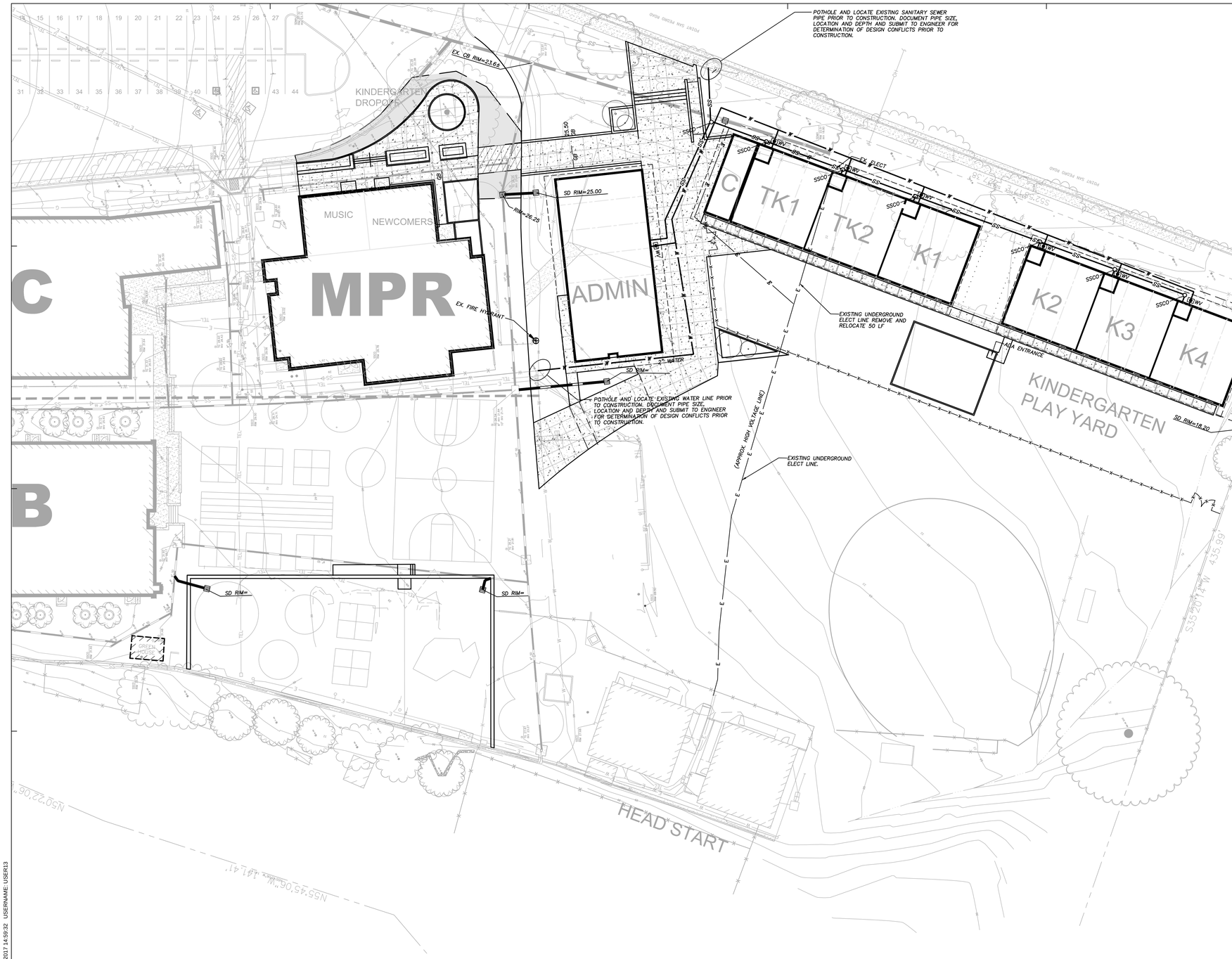


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5. EXISTING WATER, STORM AND SANITARY INVERTS SHALL BE EXPOSED AND VERIFIED PRIOR TO ANY NEW CONSTRUCTION.

6. PLUMBING CONTRACTOR TO PROVIDE TRACER WIRES ON ALL BURIED PLASTIC PIPING.

7. VALVE BOXES TO BE CHRISTY 10"x17" WITH BALL VALVES. BALL VALVES TO BE SET 12" BELOW GRADE. WATER LINES TO BE SET 24" BELOW GRADE.

8. WHEN WATER AND SEWER LINES ARE INSTALLED IN JOINT TRENCH, WATER LINES TO BE SET MINIMUM 1' HIGHER THAN SEWER LINES WITH MINIMUM 1' HORIZONTAL CLEARANCE.

9. UTILITY POINTS OF CONNECTION ARE 5' OUTSIDE OF BUILDING. SEE MECHANICAL AND PLUMBING DRAWINGS FOR UTILITY CONNECTION.

10. CONTRACTOR SHALL BE RESPONSIBLE FOR THE VERIFICATION OF LOCATIONS OF ALL EXISTING UTILITIES IN THE FIELD.

11. ALL UTILITY TRENCHES SHOULD BE BACKFILLED WITH COMPACTED FILL IN ACCORDANCE WITH LOCAL REQUIREMENTS OR THE RECOMMENDATIONS IN THE SOILS REPORT. FILL MATERIAL SHOULD BE PLACED IN LIFTS NOT EXCEEDING 8 INCHES IN UNCOMPACTED THICKNESS AND SHOULD BE COMPACTED TO AT LEAST 90 PERCENT RELATIVE COMPACTION (ASTM D-1557, LATEST EDITION) BY MECHANICAL MEANS ONLY. EXCEPT WHERE LOCAL REQUIREMENTS SPECIFY HIGHER REQUIREMENTS. IF IMPORTED SAND IS USED AS BACKFILL, THE UPPER THREE FEET IN BUILDING AND PAVEMENT AREAS SHALL BE COMPACTED TO 95 PERCENT. THE UPPER 6 INCHES OF BACKFILL IN ALL PAVEMENT AREAS SHALL BE COMPACTED TO AT LEAST 95 PERCENT RELATIVE COMPACTION.

12. CONTRACTOR SHALL SALVAGE ALL IRRIGATION SPRINKLER HEADS & CONTROLS, AND TURN THEM OVER TO THE SCHOOL DISTRICT UNHARMED. THE SCHOOL DISTRICT SHALL BE RESPONSIBLE FOR REDESIGNING AND RECONSTRUCTION OF IRRIGATION SYSTEMS. HOWEVER, THE CONTRACTOR SHALL BE RESPONSIBLE FOR REMOVING, CAPPING OFF, AND SHUTTING OFF OF EXISTING IRRIGATION LINES AS NECESSARY TO DO THEIR WORK.

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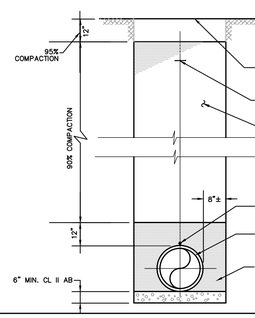
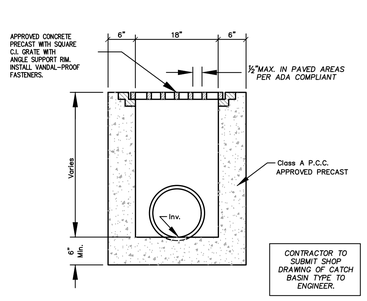
SECTION 312333 – TRENCHING & BACKFILLING
SECTION 331100 – WATER UTILITY DISTRIBUTION PIPING
SECTION 333000 – SEWAGE UTILITIES
SECTION 334100 – STORM UTILITY DRAINAGE PIPING

## PLUMBING LEGEND

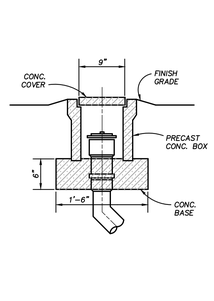
| | |
|---|---|
| | NEW STORM DRAIN SIZE AND SLOPE AS INDICATED |
| | NEW RAIN WATER LEADER @ S=0.02 MIN. SIZE AND SLOPE AS INDICATED |
| SS | NEW SANITARY SEWER (SIZE AS INDICATED) S=0.01 UNLESS OTHERWISE INDICATED |
| W | NEW WATER LINE (SIZE AS INDICATED) |
| FS | NEW FIRE SERVICE LINE (SIZE AS INDICATED) |
| | NEW PVC SUBDRAIN (SIZE AS INDICATED) |
| G | NEW GAS LINE (SEE MECHANICAL DRAWINGS) |
| E | NEW ELECTRICAL LINE (SEE ELECTRICAL DRAWINGS) |
| AD | AREA DRAIN |
| CB | CATCH BASIN |
| JB | JUNCTION BOX |
| SDMH | STORM DRAIN MAINTENANCE HOLE |
| SSMH | SANITARY SEWER MAINTENANCE HOLE |
| RWL | RAIN WATER LEADER |
| COTG/SDCO/SSCO | CLEAN OUT TO GRADE |
| WV | WATER VALVE |
| WM | WATER METER |
| BFP | BACK FLOW PREVENTER |
| FH | FIRE HYDRANT |
| D.I.P. | DUCTILE IRON PIPE |
| EX., EXIST. | EXISTING |
| FF | FINISH FLOOR |
| HDPE | HIGH DENSITY POLYETHYLENE PIPE |
| INV | INVERT ELEVATION |
| IEI | INVERT ELEVATION IN |
| IEO | INVERT ELEVATION OUT |
| IET | INVERT ELEVATION THROUGH |
| PVC | POLYVINYL CHLORIDE |
| RCP | REINFORCED CONCRETE PIPE |
| SS | SANITARY SEWER |
| SD | STORM DRAIN |
| TYP. | TYPICAL |
| W, DW | DOMESTIC WATER |



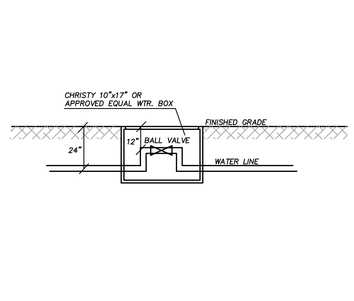

1 TRENCH BACKFILL DETAIL N.T.S.



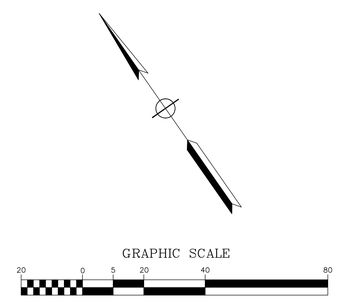

2 CATCH BASIN N.T.S.




3 GRADE CLEANOUT N.T.S.




4 WATER VALVE BOX INSTALLATION DETAIL N.T.S.

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FILE NAME: P:\2017\J17013 San Pedro ES\Dwg\ J17013DSN.dwg REV. DATE & TIME: Wed, 9 Aug 2017 14:59:32 USERNAME: USER13
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GRAPHIC SCALE
30 0 15 30 60 120
( IN FEET )
1 inch = 30 ft.

## DEMOLITION LEGEND

- REMOVE EXISTING PAVEMENT
- X — REMOVE EXISTING TREE
- XXXXXXXXXXXXXXX — REMOVE EXISTING CURB
- >>>>>>>>>>>>>>> — REMOVE EXISTING FENCE
- ////////////// — REMOVE EXISTING UNDERGROUND UTILITY
- ——— ——— — LIMIT OF SITE DEMOLITION, CLEARING AND GRADING
- – – – – – – – — SAW CUT LINE
- ——x——— — TEMPORARY CONSTRUCTION CHAIN LINK FENCE

| | |
|---|---|
| AC | ASPHALT CONCRETE |
| AD | AREA DRAIN |
| CB | CATCH BASIN |
| CO | CLEAN OUT |
| CONC. | CONCRETE |
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| TYP. | TYPICAL |

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6. CONTRACTOR SHALL SALVAGE ALL IRRIGATION SPRINKLER HEADS & CONTROLS, AND TURN THEM OVER TO THE SCHOOL DISTRICT UNHARMED. THE SCHOOL DISTRICT SHALL BE RESPONSIBLE FOR REDESIGNING AND RECONSTRUCTION OF IRRIGATION SYSTEMS. HOWEVER, THE CONTRACTOR SHALL BE RESPONSIBLE FOR REMOVING, CAPPING OFF, AND SHUTTING OFF OF EXISTING IRRIGATION LINES AS NECESSARY TO DO THEIR WORK.

THE FOLLOWING SECTIONS OF THE STANDARD SITE WORK SPECIFICATIONS FOR THE CONSTRUCTION OF THIS PROJECT ARE APPLICABLE TO THE WORK SHOWN ON THIS DRAWING:

SECTION 311000 – SITE CLEARING

PROTECT RETAINING WALL
DEMO SAFETY SURFACING
PLAY STRUCTURES TO BE DEMOLISHED
SHED TO BE RELOCATED
CAP SD LINE, TYP.
STORM DRAIN AND GRATES INLET TO REMAIN
SAWCUT LIMIT
PORTABLES AND RAMPS TO BE RELOCATED
EX. FIRE HYDRANT TO REMAIN
PROTECT UTILITY BOXES
EX. TREES AND RAISED PLANTERS TO REMAIN AND PROTECT
PROTECT ALL ENTITIES OUTSIDE DEMO AREA, INCLUDING WALL.
SALVAGE CUSTOM CERAMIC TILE
REMOVE EX. STRIPPING
PROTECT GAS LINE
PROTECT SD AND INLET
EX. TREES AND RAISED PLANTERS TO REMAIN AND PROTECT
EX. TREES AND RAISED PLANTERS TO REMAIN AND PROTECT
AC PAVING TO REMOVED
PORTABLE TO BE DEMO: AFTER COMPLETION OF CLASSROOM/ADMIN BLDG.
RELOCATED GREENHOUSE
EX. BLDG TO BE DEMOLISHED
EX. BLDG TO BE REMOVED
EX. BLDG TO BE DEMOLISHED
APPROX. LOCATION EXISTING UNDERGROUND UTILITY HIGH VOLTAGE
PROTECT ALL ENTITIES OUTSIDE DEMO AREA, INCLUDING WALL.
" TO BE RELOCATED "
HEAD START
A
B
C
MPR
CL
KINDERGARTEN DROP-OFF
MUSIC
NEWCOMERS
EXISTING PLAYFIELD TO REMAIN

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TEL: 415.492.3200

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PROJECT No. J17013 PLOT DATE: 08.08.2017


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Architect of Record: LICENSED ARCHITECT, CHRISTOPHER A. HIBSER, C-27362, 01-31-17 RENEWAL DATE, STATE OF CALIFORNIA


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HY ARCHITECTS JOB NUMBER 4786

Facility
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498 POINT SAN PEDRO ROAD
SAN RAFAEL, CA 94901

Project
ADMINISTRATION & KINDERGARTEN MODULAR WING

Sheet Title
SITE DEMOLITION PLAN

| | |
|---|---|
| Scale | Client Ref No. |
| Drwn By | Permit No. |
| Chckd By | Sheet C1 |
| Issue Date 5/2/17 | |

FILE NAME: F:\2017\J17013 San Pedro ES\Dwg\J17013DSN.dwg REV DATE & TIME: Tue, 8 Aug 2017 17:35:19 USERNAME: USER13

8/8/2017 5:35:14 PM, USER13

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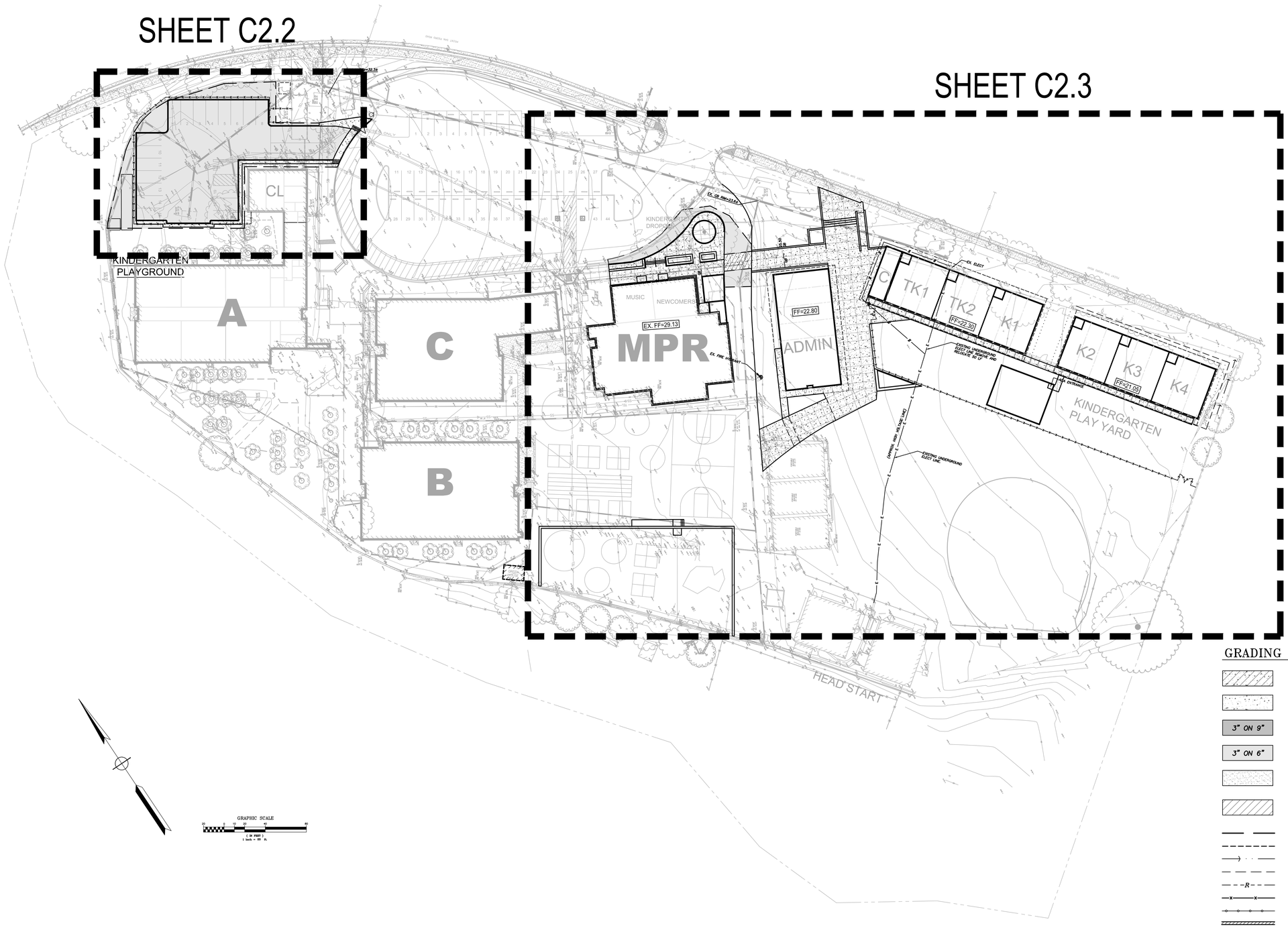
SHEET C2.2

SHEET C2.3




GRAPHIC SCALE

( IN FEET )
1 inch = 10 ft.

## GRADING & PAVING LEGEND

| | |
|---|---|
| | NEW CONCRETE SLAB – THICKENED SECTION (6" REINFORCED PCC ON 6" CLASS 2 AB ON 6" RECOMPACTED SUBGRADE (90%)) |
| | NEW CONCRETE SLAB (4" REINFORCED PCC ON 4" CLASS 2 AB ON 6" RECOMPACTED SUBGRADE (90%)) |
| 3" ON 9" | NEW AC PAVEMENT – TRAFFIC (3" AC ON 9" CLASS 2 AB ON 6" RECOMPACTED SUBGRADE (95%)) |
| 3" ON 6" | NEW AC PAVEMENT (3" AC ON 6" CLASS 2 AB ON 6" RECOMPACTED SUBGRADE (95%)) |
| | DECOMPOSED GRANITE (6" CLASS 2 AB ON 6" RECOMPACTED SUBGRADE (95%)) |
| | VARIABLE THICKNESS ASPHALT CONCRETE OVERLAY TO BE CONSTRUCTED AFTER BUILDING AND RAMPS ARE INSTALLED. SLOPES TO BE 2% WITHIN LANDING AREA, AND BETWEEN 1% AND 5% EVERYWHERE ELSE. |
| | LIMIT OF GRADING |
| | SAW CUT LINE |
| | DRAINAGE FLOW LINE |
| | GRADE BREAK LINE |
| | RIDGE LINE |
| | NEW FENCE LINE |
| | NEW HANDRAIL |
| | NEW RETAINING WALL |
| 99 | FINISH GRADE CONTOUR |
| AC | ASPHALT CONCRETE |
| AD | AREA DRAIN |
| C, PCC, CONC. | PORTLAND CEMENT CONCRETE |
| CB | CATCH BASIN |
| COTG/SDCO/SSCO | CLEAN OUT TO GRADE |
| EX., EXIST. | EXISTING |
| FF | FINISH FLOOR |
| FH | FIRE HYDRANT |
| FL | FLOW LINE |
| G | GROUND |
| GB | GRADE BREAK |
| JB | JUNCTION BOX |
| SDMH | STORM DRAIN MAINTENANCE HOLE |
| SSMH | SANITARY SEWER MAINTENANCE HOLE |
| TC | TOP OF CURB |
| TW | TOP OF WALL |
| TYP. | TYPICAL |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civil engineers and surveyors
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Architect of Record: LICENSED ARCHITECT, LINCOLN A. HIBSER, C-27362, 01-31-17 RENEWAL DATE, STATE OF CALIFORNIA


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HY ARCHITECTS JOB NUMBER 4786

Facility

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498 POINT SAN PEDRO ROAD
SAN RAFAEL, CA 94901

Project

CLASSROOM/ ADMINISTRATION BUILDING MODERNIZATION

Sheet Title

SITE PLAN

| | |
|---|---|
| Scale | Client Ref No. |
| Drwn By | Permit No. |
| Chckd By | Sheet |
| Issue Date 5/2/17 | C2.1 |

FILE NAME: F:\2017\J17013 San Pedro ES\Dwg\ J17013DSN.dwg REV. DATE & TIME: Tue, 8 Aug 2017 17:30:54 USERNAME: USER13

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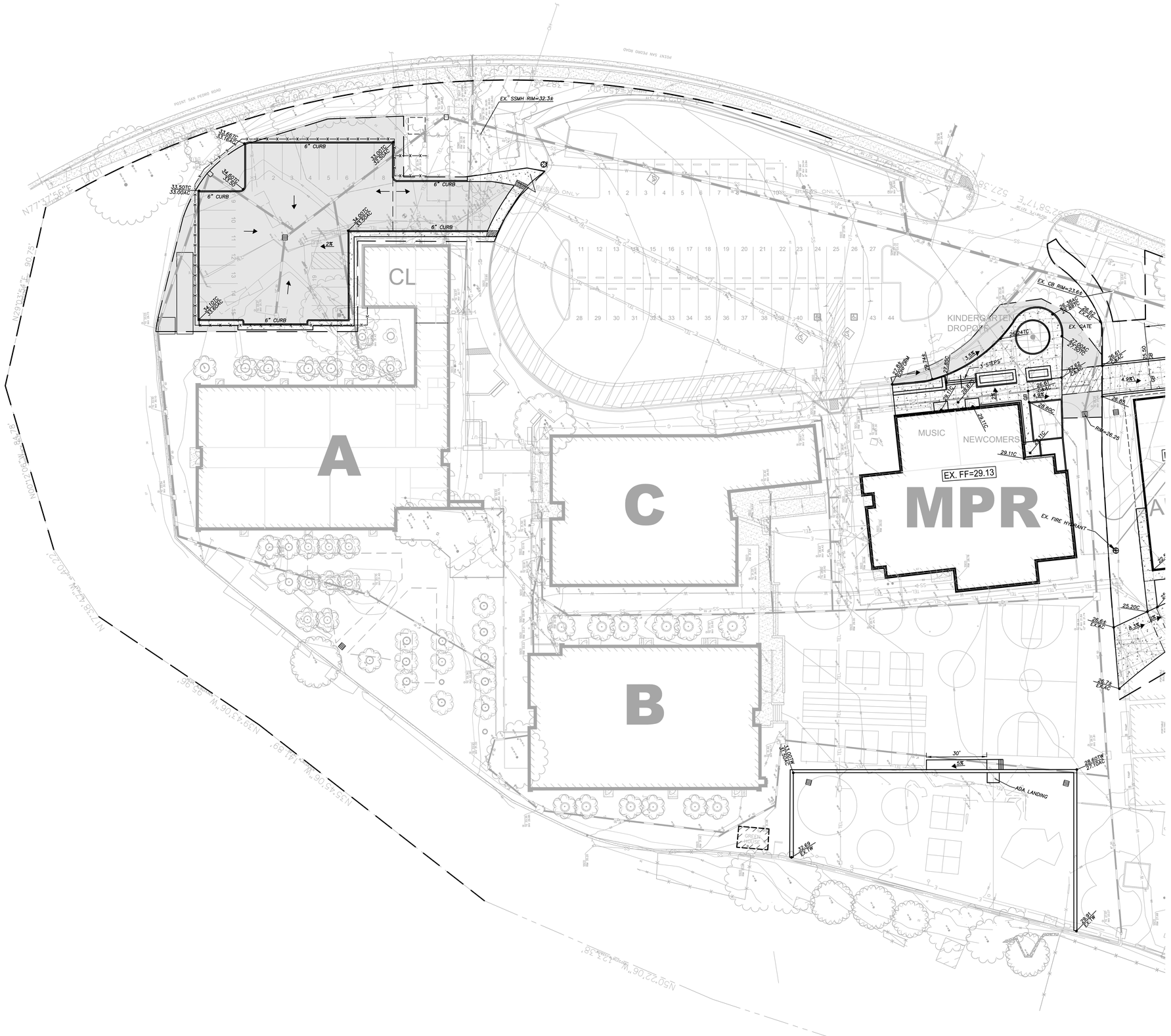


## GENERAL NOTES

1. THE CONTRACTOR SHALL LAY OUT THE WORK, SETTING GRADESTAKES, ESTABLISHING LINES, BASE LINES, ELEVATIONS AND OTHER REFERENCE MARKERS AND INFORMATION NECESSARY TO COMPLETE THE WORK AND SHALL BE RESPONSIBLE FOR THE ACCURACY THEREOF.

2. ANY INCONSISTENCIES IN EXISTING OR PROPOSED ELEVATIONS SHALL BE BROUGHT TO THE NOTICE OF THE OWNER'S REPRESENTATIVE FOR RESOLUTION PRIOR TO CONSTRUCTION OR AS SOON AS DISCOVERED.

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SECTION 311000 – SITE CLEARING
SECTION 312000 – EARTHMOVING
SECTION 321216 – ASPHALT PAVING
SECTION 321312 – CONCRETE PAVING
SECTION 321309 – REINFORCING STEEL

## GRADING & PAVING LEGEND

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- SSMH — SANITARY SEWER MAINTENANCE HOLE
- TC — TOP OF CURB
- TW — TOP OF WALL
- TYP. — TYPICAL

GRAPHIC SCALE
20 0 10 20 40 80
( IN FEET )
1 inch = 20 ft.


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TEL: 415.492.3200


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Architect of Record: LICENSED ARCHITECT, MARCUS A. HYBSER, C-27362, 01-31-17, RENEWAL DATE, STATE OF CALIFORNIA


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498 POINT SAN PEDRO ROAD
SAN RAFAEL, CA 94901

Project
CLASSROOM/ ADMINISTRATION BUILDING MODERNIZATION

Sheet Title
SITE GRADING AND PAVING PLAN

| | |
|---|---|
| Scale | Client Ref No. |
| Drwn By | Permit No. |
| Chckd By | Sheet C2.2 |
| Issue Date 5/2/17 | |

FILE NAME: F:\2017\J17013 San Pedro ES\Dwg\J17013DSN.dwg REV. DATE & TIME: Tue, 8 Aug 2017 17:25:52 USERNAME: USER13

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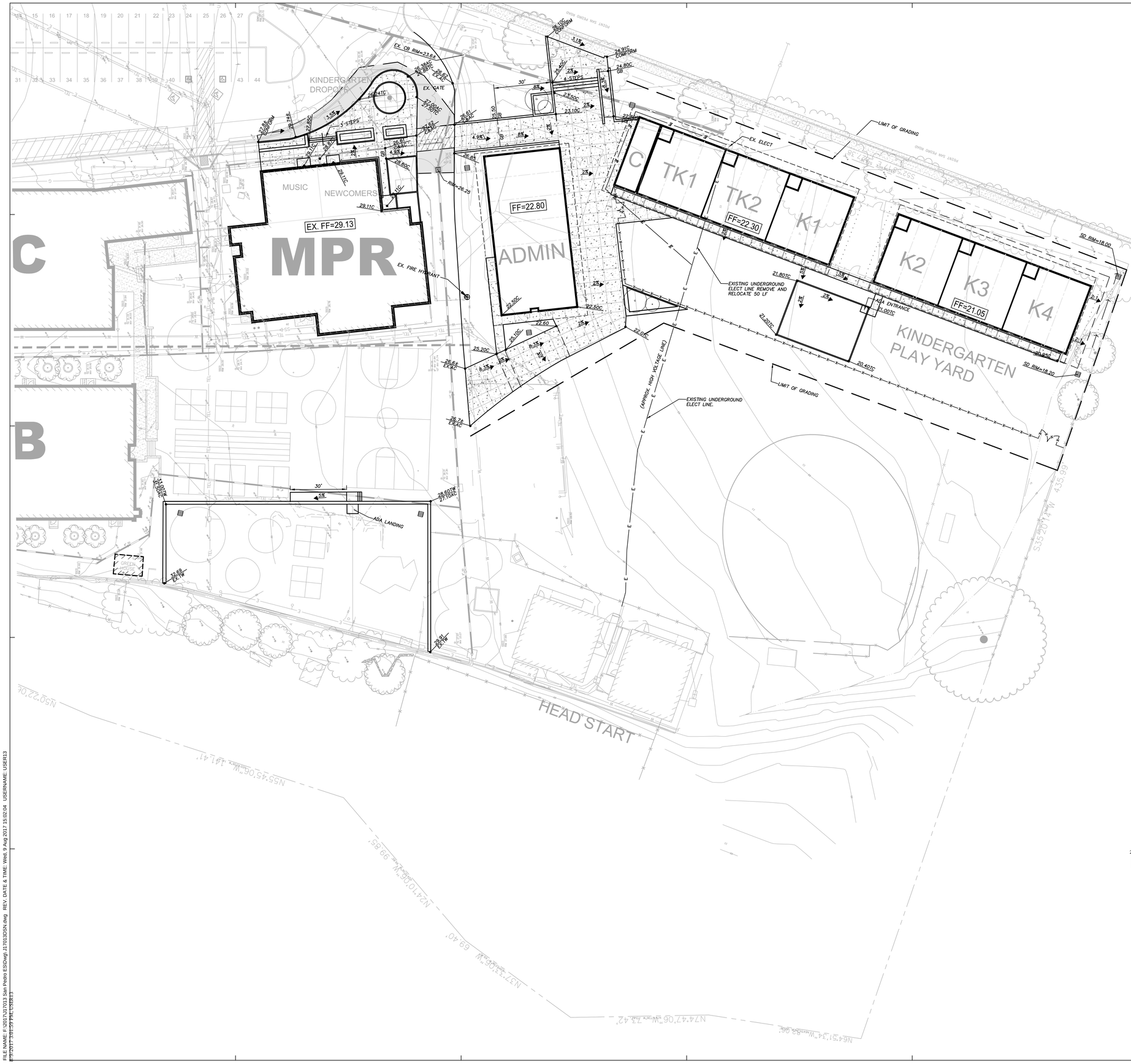


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SECTION 312000 – EARTHMOVING
SECTION 321216 – ASPHALT PAVING
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PROJECT No. J17013 PLOT DATE: 08.08.2017


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Architect of Record: LICENSED ARCHITECT — RICARDO A HINOJOSA — C-27362 — 01-31-17 RENEWAL DATE — STATE OF CALIFORNIA


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Project
ADMINISTRATION & KINDERGARTEN MODULAR WING

Sheet Title
SITE GRADING AND PAVING PLAN

Scale
Drwn By
Chckd By
Issue Date 5/2/17

Client Ref No.
Permit No.
Sheet
C2.3

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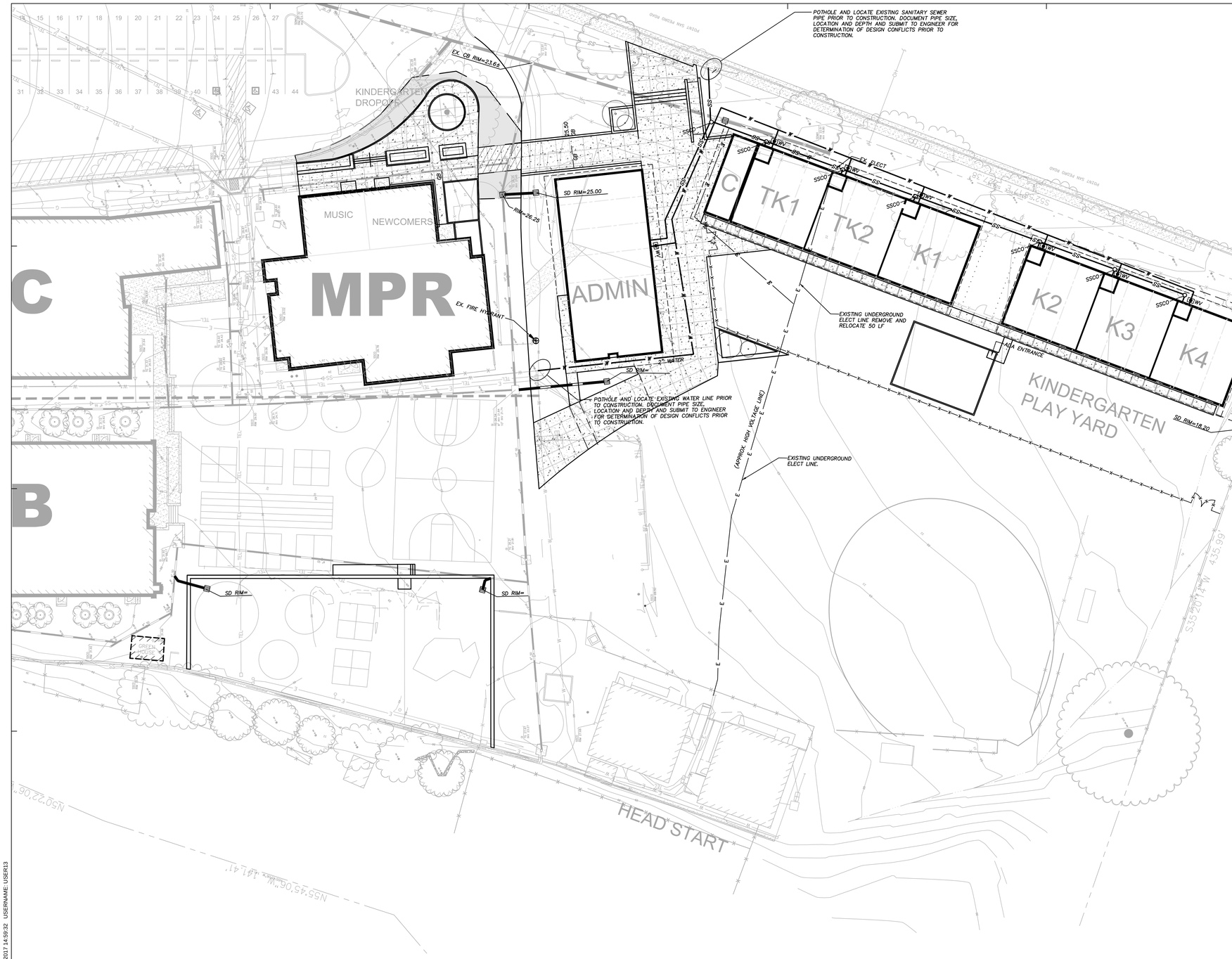


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6. PLUMBING CONTRACTOR TO PROVIDE TRACER WIRES ON ALL BURIED PLASTIC PIPING.

7. VALVE BOXES TO BE CHRISTY 10"x17" WITH BALL VALVES. BALL VALVES TO BE SET 12" BELOW GRADE. WATER LINES TO BE SET 24" BELOW GRADE.

8. WHEN WATER AND SEWER LINES ARE INSTALLED IN JOINT TRENCH, WATER LINES TO BE SET MINIMUM 1' HIGHER THAN SEWER LINES WITH MINIMUM 1' HORIZONTAL CLEARANCE.

9. UTILITY POINTS OF CONNECTION ARE 5' OUTSIDE OF BUILDING. SEE MECHANICAL AND PLUMBING DRAWINGS FOR UTILITY CONNECTION.

10. CONTRACTOR SHALL BE RESPONSIBLE FOR THE VERIFICATION OF LOCATIONS OF ALL EXISTING UTILITIES IN THE FIELD.

11. ALL UTILITY TRENCHES SHOULD BE BACKFILLED WITH COMPACTED FILL IN ACCORDANCE WITH LOCAL REQUIREMENTS OR THE RECOMMENDATIONS IN THE SOILS REPORT. FILL MATERIAL SHOULD BE PLACED IN LIFTS NOT EXCEEDING 8 INCHES IN UNCOMPACTED THICKNESS AND SHOULD BE COMPACTED TO AT LEAST 90 PERCENT RELATIVE COMPACTION (ASTM D-1557, LATEST EDITION) BY MECHANICAL MEANS ONLY. EXCEPT WHERE LOCAL REQUIREMENTS SPECIFY HIGHER REQUIREMENTS. IF IMPORTED SAND IS USED AS BACKFILL, THE UPPER THREE FEET IN BUILDING AND PAVEMENT AREAS SHALL BE COMPACTED TO 95 PERCENT. THE UPPER 6 INCHES OF BACKFILL IN ALL PAVEMENT AREAS SHALL BE COMPACTED TO AT LEAST 95 PERCENT RELATIVE COMPACTION.

12. CONTRACTOR SHALL SALVAGE ALL IRRIGATION SPRINKLER HEADS & CONTROLS, AND TURN THEM OVER TO THE SCHOOL DISTRICT UNHARMED. THE SCHOOL DISTRICT SHALL BE RESPONSIBLE FOR REDESIGNING AND RECONSTRUCTION OF IRRIGATION SYSTEMS. HOWEVER, THE CONTRACTOR SHALL BE RESPONSIBLE FOR REMOVING, CAPPING OFF, AND SHUTTING OFF OF EXISTING IRRIGATION LINES AS NECESSARY TO DO THEIR WORK.

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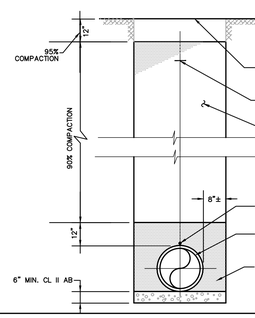
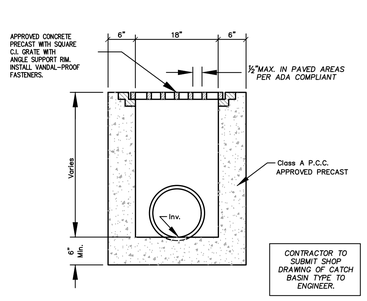
SECTION 312333 – TRENCHING & BACKFILLING
SECTION 331100 – WATER UTILITY DISTRIBUTION PIPING
SECTION 333000 – SEWAGE UTILITIES
SECTION 334100 – STORM UTILITY DRAINAGE PIPING

## PLUMBING LEGEND

| | |
|---|---|
| | NEW STORM DRAIN SIZE AND SLOPE AS INDICATED |
| | NEW RAIN WATER LEADER @ S=0.02 MIN. SIZE AND SLOPE AS INDICATED |
| SS | NEW SANITARY SEWER (SIZE AS INDICATED) S=0.01 UNLESS OTHERWISE INDICATED |
| W | NEW WATER LINE (SIZE AS INDICATED) |
| FS | NEW FIRE SERVICE LINE (SIZE AS INDICATED) |
| | NEW PVC SUBDRAIN (SIZE AS INDICATED) |
| G | NEW GAS LINE (SEE MECHANICAL DRAWINGS) |
| E | NEW ELECTRICAL LINE (SEE ELECTRICAL DRAWINGS) |
| AD | AREA DRAIN |
| CB | CATCH BASIN |
| JB | JUNCTION BOX |
| SDMH | STORM DRAIN MAINTENANCE HOLE |
| SSMH | SANITARY SEWER MAINTENANCE HOLE |
| RWL | RAIN WATER LEADER |
| COTG/SDCO/SSCO | CLEAN OUT TO GRADE |
| WV | WATER VALVE |
| WM | WATER METER |
| BFP | BACK FLOW PREVENTER |
| FH | FIRE HYDRANT |
| D.I.P. | DUCTILE IRON PIPE |
| EX., EXIST. | EXISTING |
| FF | FINISH FLOOR |
| HDPE | HIGH DENSITY POLYETHYLENE PIPE |
| INV | INVERT ELEVATION |
| IEI | INVERT ELEVATION IN |
| IEO | INVERT ELEVATION OUT |
| IET | INVERT ELEVATION THROUGH |
| PVC | POLYVINYL CHLORIDE |
| RCP | REINFORCED CONCRETE PIPE |
| SS | SANITARY SEWER |
| SD | STORM DRAIN |
| TYP. | TYPICAL |
| W, DW | DOMESTIC WATER |




1 TRENCH BACKFILL DETAIL N.T.S.

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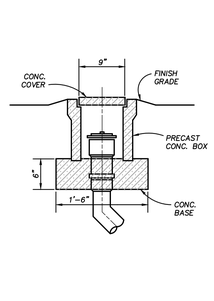


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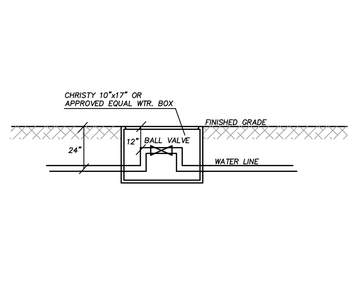
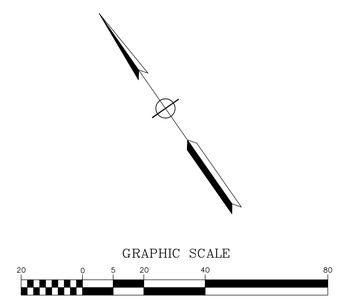



4 WATER VALVE BOX INSTALLATION DETAIL N.T.S.

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Revisions

| No. | Revisions | By | Date | Appr. |
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## DSA APPROVAL

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PROJECT No. J17013 PLOT DATE: 08.08.2017


UNDERWOOD & ROSENBLUM, INC.
civil engineers and surveyors
1630 Oakland Road, Suite A114, San Jose, CA 95131
(408) 453-1222
www.uandr.com


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Engineer Of Record: REGISTERED PROFESSIONAL ENGINEER, FRANK M. ROSENBLUM, Exp. 3-31-18, No. 42857, CIVIL, STATE OF CALIFORNIA

Architect of Record: LICENSED ARCHITECT, MICHAEL A. HYBSER, C-27362, 01-31-17 RENEWAL DATE, STATE OF CALIFORNIA


HIBSER YAMAUCHI ARCHITECTS, INC.
300 - 27th Street
Oakland, CA 94612
510.446.2222 tel | 510.446.2211 fax


HY ARCHITECTS JOB NUMBER 4786

Facility
SAN PEDRO ELEMENTARY SCHOOL
498 POINT SAN PEDRO ROAD
SAN RAFAEL, CA 94901

Project
ADMINISTRATION & KINDERGARTEN MODULAR WING

Sheet Title
SITE PLUMBING PLAN

Scale
Drwn By
Chckd By
Issue Date 5/2/17

Client Ref No.
Permit No.
Sheet
C3.0

FILE NAME: P:\2017\J17013 San Pedro ES\Dwg\ J17013DSN.dwg REV. DATE & TIME: Wed, 9 Aug 2017 14:59:32 USERNAME: USER13
PRINTED: 2/9/27 PM, USER13

GRAPHIC SCALES: 1/16" = 1'-0" | 1/8" = 1'-0" | 1/4" = 1'-0" | 1/2" = 1'-0" | 3/4" = 1'-0" | 1" = 1'-0" | 1-1/2" = 1'-0" | 3" = 1'-0"

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Instrument Play

Painted Game

Kinder Play Equipment

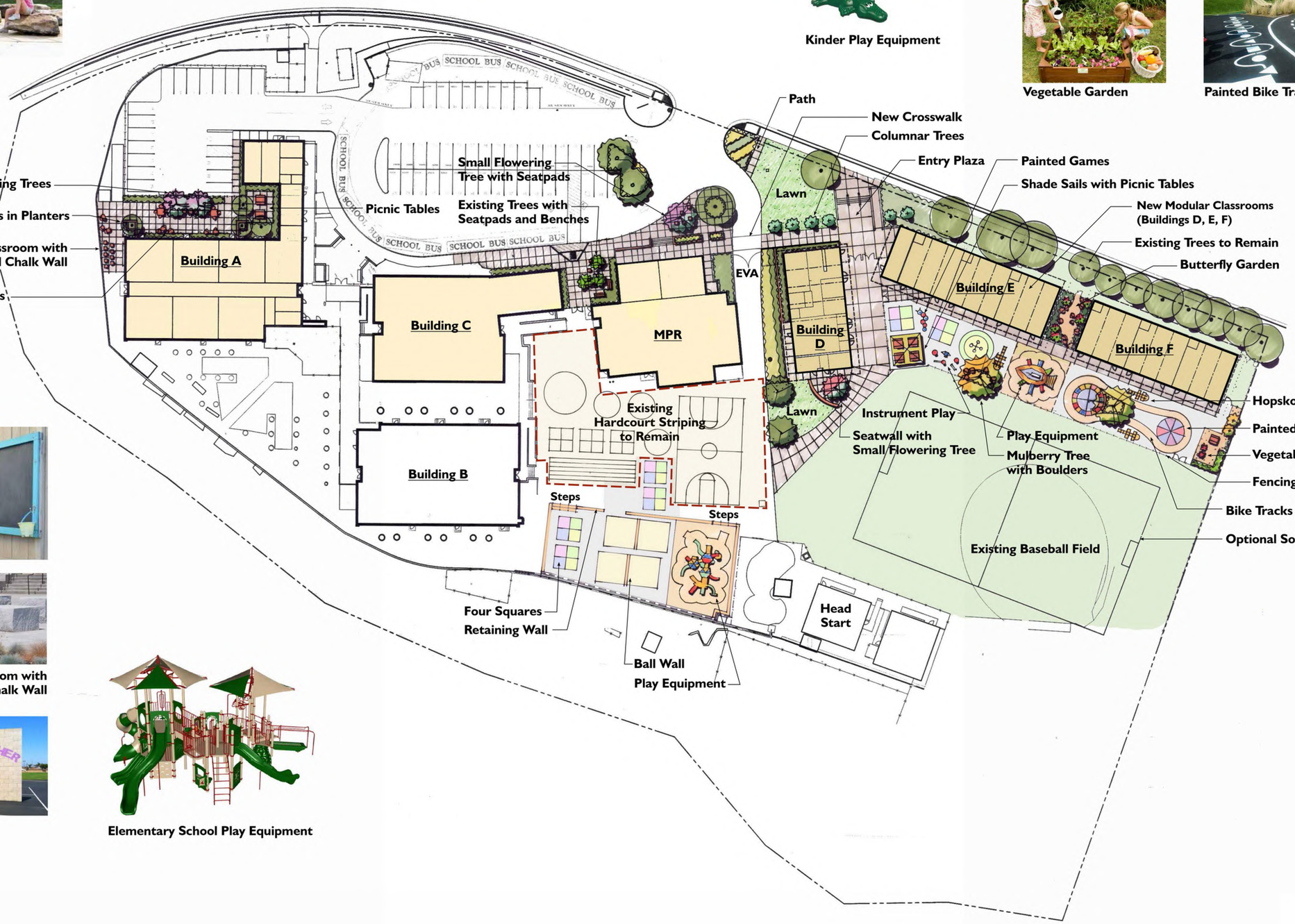
Butterfly Garden

Shade Sails

Boulder Seats

Vegetable Garden

Painted Bike Track



Outdoor Classroom with Seatpads and Chalk Wall

Ball Wall



Elementary School Play Equipment

0 15 30 60

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GATES +ASSOCIATES
LANDSCAPE ARCHITECTURE

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Engineer Of Record:

Architect of Record:

LICENSED ARCHITECT — GREGG A. HIBSER — C-27362 — 01-31-17 RENEWAL DATE — STATE OF CALIFORNIA

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HY ARCHITECTS JOB NUMBER 4786

Facility

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SAN PEDRO ELEMENTARY SCHOOL
498 POINT SAN PEDRO ROAD
SAN RAFAEL, CA 94901

Sheet Title

SITE LAYOUT

| Scale | Client Ref No. |
|---|---|
| Drwn By | Permit No. |
| Chckd By | Sheet L-1 |
| Issue Date 8/9/17 | |

FILE NAME: P:\San Rafael\San Pedro School (P0278)\ACAD\Sheets_DG-L-San Pedro School.dwg REV. DATE & TIME: Mon, 7 Aug 2017 13:25:39 USERNAME: Nemo

GRAPHIC SCALES: 1/16" = 1'-0" | 1/8" = 1'-0" | 1/4" = 1'-0" | 1/2" = 1'-0" | 3/4" = 1'-0" | 1" = 1'-0" | 1-1/2" = 1'-0" | 3" = 1'-0"

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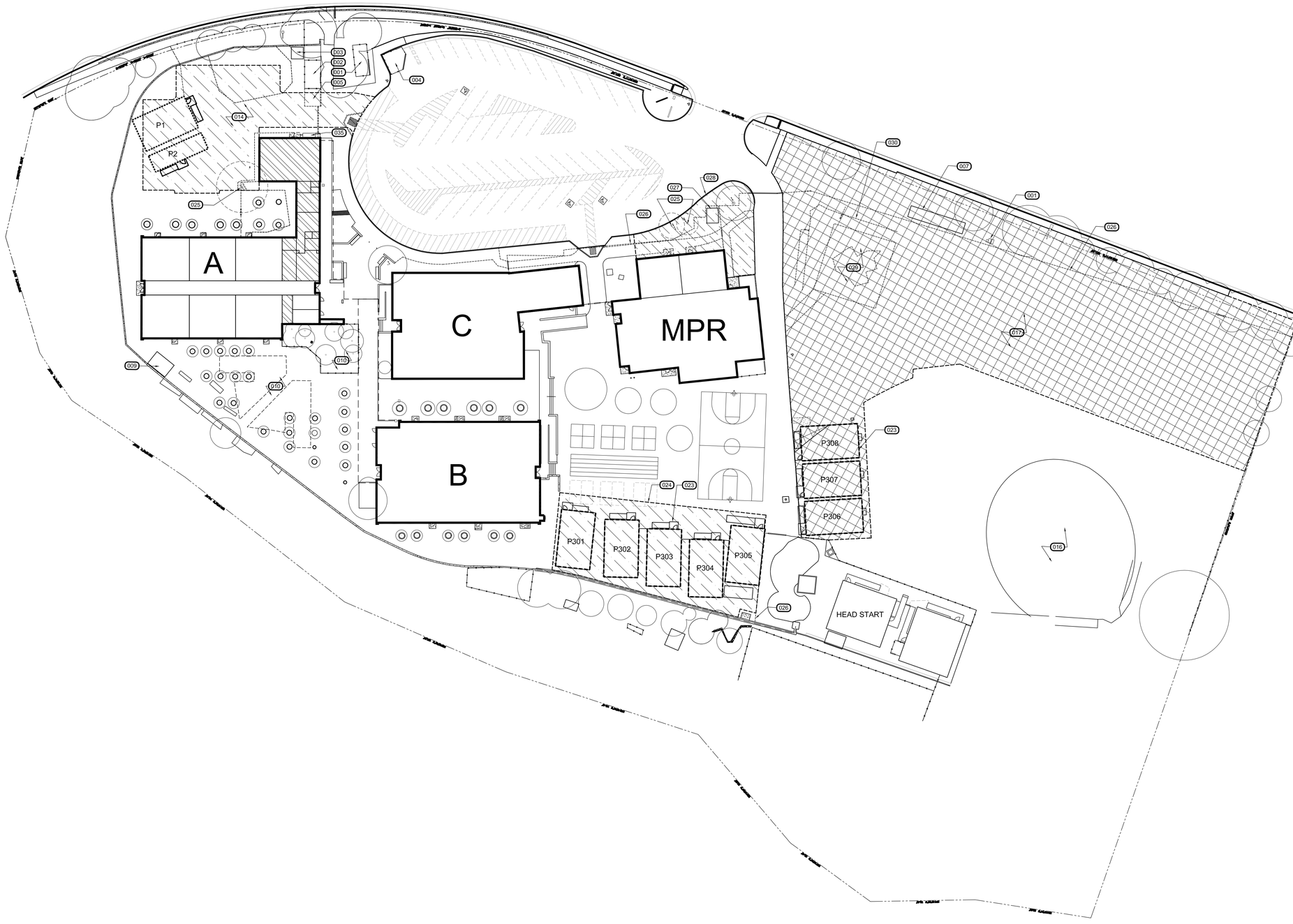


1 DEMOLITION SITE PLAN

SCALE: 1" = 30'-0"

0 30 60 90 FEET

## GENERAL NOTES

## LEGEND

NOTE: NOT ALL ARE USED ON EVERY SHEET.

- (E) WALL TO BE DEMOLISHED, TYP
- (E) WALL TO REMAIN
- (N) WALL FRAMING W/ (N) WALL FINISH
- (E) DOOR, FRAME AND HARDWARE TO BE REMOVED
- (E) DOOR
- (N) DOOR, FRAME AND HARDWARE
- (E) WINDOW AND FRAME TO BE DEMOLISHED
- MODERNIZE BUILDING A
- (N) WINDOW (SEE EXT ELEVATIONS)
- (N) AC PAVING, SCD
- FIRE LANE
- (E) AC PAVING TO BE REMOVED, SCD
- (E) FIELD TO BE REMOVED, SCD

## KEY NOTES (XXX)

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(015) RE-STRIPE PARKING LOT
(016) EXISTING BASEBALL BACKSTOP & DIAMOND
(017) PREP SITE FOR (N) MODULAR BUILDINGS
(018) NEW MAINTENANCE ACCESS CHAIN-LINK GATES
(019) NEW TEACHER LOUNGE AND WORKROOM PC BUILDING, SEE 1/A2.3
(020) NEW ADMINISTRATION AND RESTROOM MODULAR BUILDING
(021) NEW TRANSITIONAL KINDERGARTEN & KINDERGARTEN CLASSROOM MODULAR BUILDING(S), SEE 1/A2.3
(022) NEW MAIN ENTRANCE, LANDSCAPING, AND FLAG POLE, SLD
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(032) NEW FINISHES WITHIN EACH EXISTING CLASSROOM (6) WHICH INCLUDES PAINT, FLOORING, CABINETRY, AND CEILING
(033) (N) CONC STAIRS, RAMP, AND SIDEWALK
(034) (N) DROP OFF AREA
(035) (E) MSB PANEL TO REMAIN, SED
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(037) (E) DOOR, TYP
(038) (E) COLUMN, TYP
(039) (E) OUTDOOR BULLETIN BOARD, TYP
(040) PROTECT (E) 4x4 TILE
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(044) (N) TRENCH DRAIN IN CONCRETE
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(046) (N) SEAT WALL, TYP
(047) (N) 6'-0" TALL CHAIN-LINK FENCE AT HEAD START


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Revisions

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Architect of Record:

LICENSED ARCHITECT
RICCARDO A. HIBSER
C-27362
01-31-17
RENEWAL DATE
STATE OF CALIFORNIA


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Oakland, CA 94612
510.446.2222 tel | 510.446.2211 fax


HY ARCHITECTS JOB NUMBER 4786

Facility

Project

SAN PEDRO ELEMENTARY SCHOOL
498 POINT SAN PEDRO ROAD
SAN RAFAEL, CA 94901

Sheet Title

DEMOLITION SITE PLAN

| | |
|---|---|
| Scale | 1" = 30'-0" |
| Drwn By | AA |
| Chckd By | TS |
| Issue Date | 8/9/17 |

Client Ref No.

Permit No.

Sheet A1.0


FILE NAME: Y:\San Rafael City Schools\4786 San Pedro Elementary School\5 Current Drawings\SD Package\ A1.0 Demolition Site Plan.dwg REV. DATE & TIME: Wed, 9 Aug 2017 15:15:47 USERNAME: aalonzo

GRAPHIC SCALES: 1/16" = 1'-0" | 1/8" = 1'-0" | 1/4" = 1'-0" | 1/2" = 1'-0" | 3/4" = 1'-0" | 1" = 1'-0" | 1-1/2" = 1'-0" | 3" = 1'-0"

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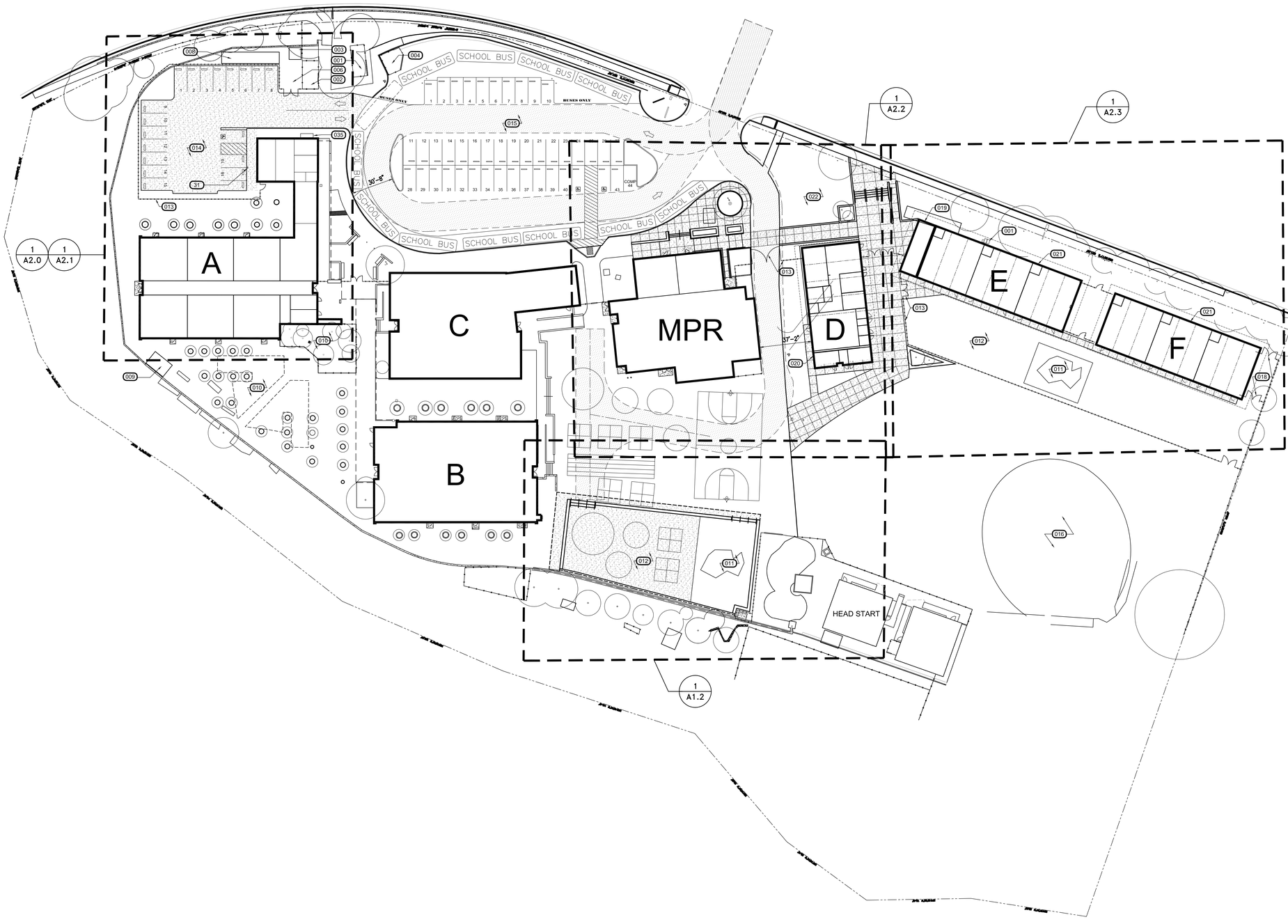


## 1 DEMOLITION SITE PLAN

SCALE: 1" = 30'-0"

0 30 60 90 FEET

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Architect of Record:

LICENSED ARCHITECT
DIANTHUS A. HYBSER
C-27362
01-31-17
RENEWAL DATE
STATE OF CALIFORNIA


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300 - 27th Street
Oakland, CA 94612
510.446.2222 tel | 510.446.2211 fax


HY ARCHITECTS JOB NUMBER 4786

Facility

Project

SAN PEDRO ELEMENTARY SCHOOL
498 POINT SAN PEDRO ROAD
SAN RAFAEL, CA 94901

Sheet Title

SITE PLAN

| | |
|---|---|
| Scale | 1" = 30'-0" |
| Drwn By | AA |
| Chckd By | TS |
| Issue Date | 8/9/17 |

Client Ref No.

Permit No.

Sheet A1.1

FILE NAME: Y:\San Rafael City Schools\4786 San Pedro Elementary School\5 Current Drawings\SD Package\A1.1 Site Plan.dwg REV. DATE & TIME: Wed, 9 Aug 2017 15:23:40 USERNAME: aalcozo

GRAPHIC SCALES: 1/16" = 1'-0" | 1/8" = 1'-0" | 1/4" = 1'-0" | 1/2" = 1'-0" | 3/4" = 1'-0" | 1" = 1'-0" | 1-1/2" = 1'-0" | 3" = 1'-0"

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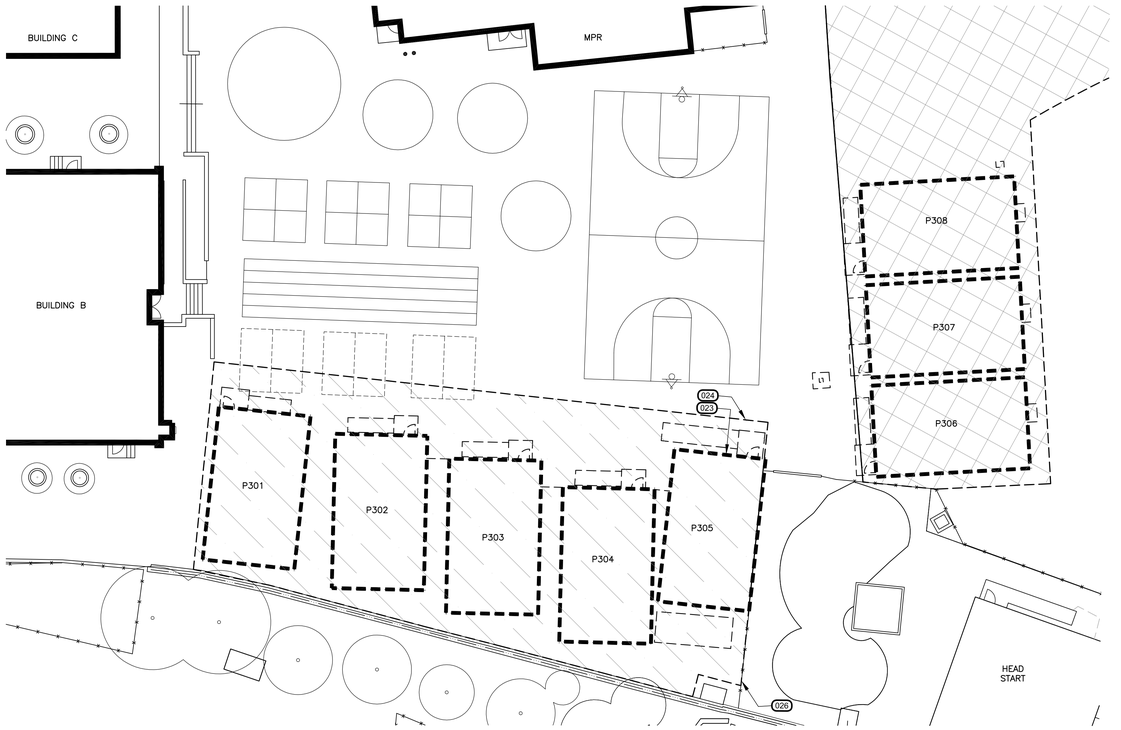
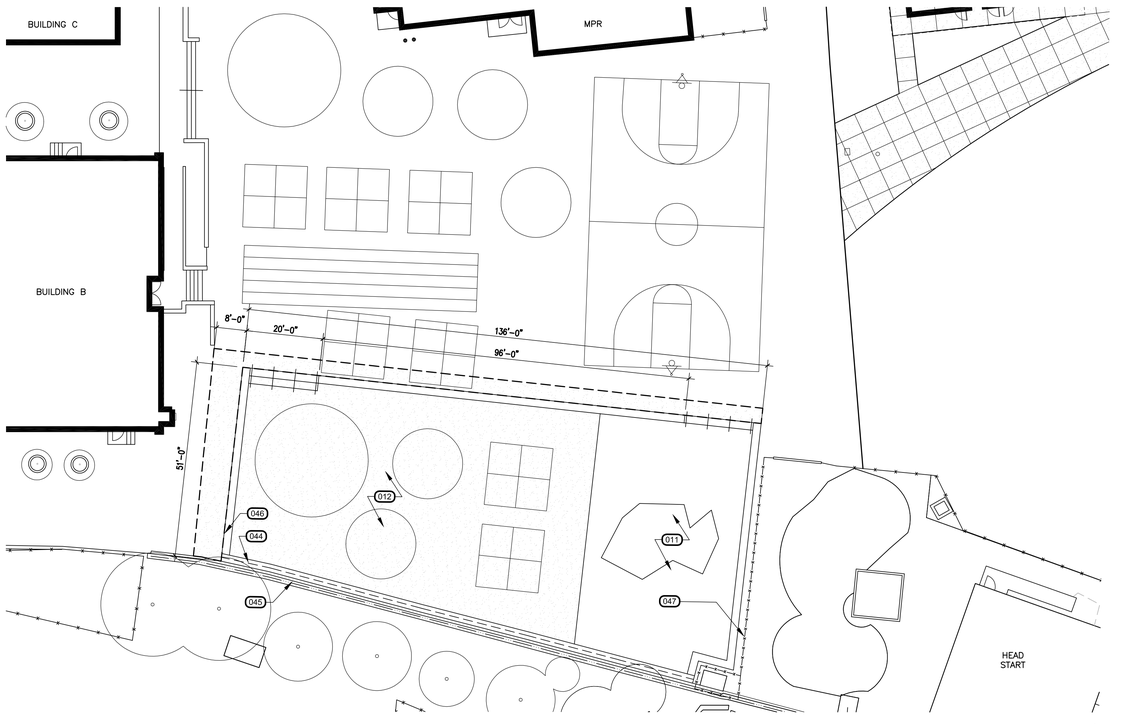



1 DEMOLITION SITE PLAN - PORTABLES

SCALE: 1/16" = 1'-0"




2 SITE PLAN - NEW RAISED PLAYGROUND AREA WITH PLAY STRUCTURE

SCALE: 1/16" = 1'-0"

## GENERAL NOTES

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Revisions

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Engineer Of Record:

Architect of Record:

LICENSED ARCHITECT — MARCUS A. HYBSER — C-27362 — 01-31-17 — RENEWAL DATE — STATE OF CALIFORNIA


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Project

SAN PEDRO ELEMENTARY SCHOOL
498 POINT SAN PEDRO ROAD
SAN RAFAEL, CA 94901

Sheet Title

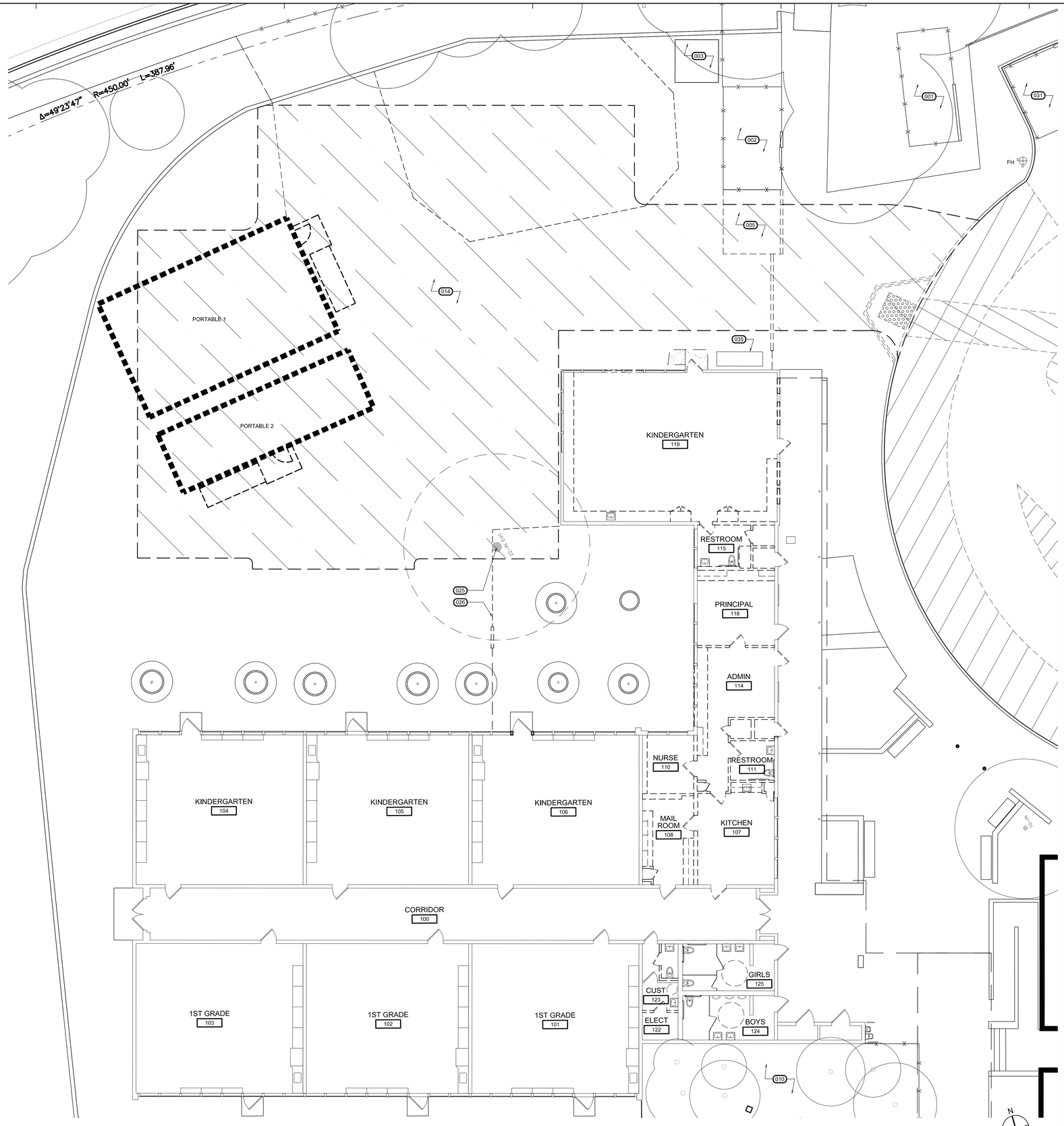
ENLARGED SITE PLANS

| | | | |
|---|---|---|---|
| Scale | 1/16" = 1'-0" | Client Ref No. | |
| Drwn By | AA | Permit No. | |
| Chckd By | TS | Sheet | A1.2 |
| Issue Date | 8/9/17 | | |

FILE NAME: Y:\San Rafael City Schools\4786 San Pedro Elementary School\5 Current Drawings\SD Package\A1.2 Enlarged Site Plans.dwg REV. DATE & TIME: Wed, 9 Aug 2017 15:22:26 USERNAME: aalonzo

GRAPHIC SCALES: 1/16" = 1'-0" | 1/8" = 1'-0" | 1/4" = 1'-0" | 1/2" = 1'-0" | 3/4" = 1'-0" | 1" = 1'-0" | 1-1/2" = 1'-0" | 3" = 1'-0"

IF THIS SHEET IS NOT 30"x42" , IT IS A REDUCED PRINT – SCALE ACCORDINGLY




1 DEMOLITION FLOOR PLAN

SCALE: 1/8" = 1'-0"

## GENERAL NOTES

## LEGEND

NOTE: NOT ALL ARE USED ON EVERY SHEET.

- (E) WALL TO BE DEMOLISHED, TYP
- (E) WALL TO REMAIN
- (N) WALL FRAMING W/ (N) WALL FINISH
- (E) DOOR, FRAME AND HARDWARE TO BE REMOVED
- (E) DOOR
- (N) DOOR, FRAME AND HARDWARE
- (E) WINDOW AND FRAME TO BE DEMOLISHED
- MODERNIZE BUILDING A
- (N) WINDOW (SEE EXT ELEVATIONS)
- (N) AC PAVING, SCD
- FIRE LANE
- (E) AC PAVING TO BE REMOVED, SCD
- (E) FIELD TO BE REMOVED, SCD

## KEY NOTES (XXX)

NOTE: NOT ALL NOTES ARE USED ON EVERY SHEET.

(001) (E) ELECTRICAL EQUIPMENT & ENCLOSURE TO REMAIN, SED
(002) (E) GAS MAIN & ENCLOSURE
(003) (E) STORAGE SHED TO REMAIN
(004) (E) WASTE ENCLOSURE TO REMAIN
(005) (E) WASTE ENCLOSURE TO BE DEMOLISHED
(006) (N) WASTE ENCLOSURE
(007) (E) STORAGE CONTAINER TO BE RELOCATED
(008) RELOCATED STORAGE CONTAINER
(009) (E) GREEN HOUSE - NOT IN CONTRACT
(010) (E) PEACE GARDEN AND AMPHITHEATER - NOT IN CONTRACT
(011) (N) PLAY STRUCTURE & SAFETY SURFACE
(012) (N) PLAYGROUND AREA
(013) (N) CHAIN-LINK FENCE AND GATE(S)
(014) EXPANDED NEW PARKING LOT - REMOVE EXISTING PORTABLES, CHAIN-LINK FENCE & GATES, TREE, CONC CURB RAMP, PLAY STRUCTURE, AND SAFETY SURFACE. PREP SITE FOR (N) DRIVEWAY AND PARKING
(015) RE-STRIPE PARKING LOT
(016) EXISTING BASEBALL BACKSTOP & DIAMOND
(017) PREP SITE FOR (N) MODULAR BUILDINGS
(018) NEW MAINTENANCE ACCESS CHAIN-LINK GATES
(019) NEW TEACHER LOUNGE AND WORKROOM PC BUILDING, SEE 1/A2.3
(020) NEW ADMINISTRATION AND RESTROOM MODULAR BUILDING
(021) NEW TRANSITIONAL KINDERGARTEN & KINDERGARTEN CLASSROOM MODULAR BUILDING(S), SEE 1/A2.3
(022) NEW MAIN ENTRANCE, LANDSCAPING, AND FLAG POLE, SLD
(023) REMOVE EXISTING (8) PORTABLES, TYP
(024) PREP SITE FOR NEW PLAYGROUND AREA
(025) (E) TREE(S) TO BE REMOVED
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(031) (N) ELECTRIC VEHICLE CHARGING STATION, SED
(032) NEW FINISHES WITHIN EACH EXISTING CLASSROOM (6) WHICH INCLUDES PAINT, FLOORING, CABINETRY, AND CEILING
(033) (N) CONC STAIRS, RAMP, AND SIDEWALK
(034) (N) DROP OFF AREA
(035) (E) MSB PANEL TO REMAIN, SED
(036) (E) WINDOW, TYP
(037) (E) DOOR, TYP
(038) (E) COLUMN, TYP
(039) (E) OUTDOOR BULLETIN BOARD, TYP
(040) PROTECT (E) 4x4 TILE
(041) (N) HOLLOW METAL WINDOW (S)
(042) (N) HOLLOW METAL DOOR
(043) (N) STUCCO WALL, TYP
(044) (N) TRENCH DRAIN IN CONCRETE
(045) (E) RETAINING WALL TO REMAIN
(046) (N) SEAT WALL, TYP
(047) (N) 6'-0" TALL CHAIN-LINK FENCE AT HEAD START


SAN RAFAEL CITY SCHOOLS
310 NOVA ALBION WAY, SAN RAFAEL, CALIFORNIA 94903
TEL: 415.492.3200


Revisions

| No. | Revisions | By | Date | Appr. |
|---|---|---|---|---|
| | | | | |

## DSA APPROVAL

IDENTIFICATION STAMP
DIVISION OF STATE ARCHITECT

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AC FLS SS

DATE


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Engineer Of Record:

Architect of Record:

LICENSED ARCHITECT — CHARLES A. YAMAUCHI — C-27362 — 01-31-17 RENEWAL DATE — STATE OF CALIFORNIA


HIBSER YAMAUCHI ARCHITECTS, INC.
300 - 27th Street
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510.446.2222 tel | 510.446.2211 fax


HY ARCHITECTS JOB NUMBER 4786

Facility

Project

SAN PEDRO ELEMENTARY SCHOOL
498 POINT SAN PEDRO ROAD
SAN RAFAEL, CA 94901

Sheet Title

DEMOLITION FLOOR PLAN

| | |
|---|---|
| Scale | 1/8" = 1'-0" |
| Drwn By | AA |
| Chckd By | TS |
| Issue Date | 8/9/17 |
| Client Ref No. | |
| Permit No. | |
| Sheet | A2.0 |

FILE NAME: Y:\San Rafael City Schools\4786 San Pedro Elementary School\5 Current Drawings\SD Package\ A2.0 Building A Demolition Floor Plan.dwg REV. DATE & TIME: Wed. 9 Aug 2017 15:29:50 USERNAME: aalonzo

GRAPHIC SCALES: 1/16" = 1'-0" | 1/8" = 1'-0" | 1/4" = 1'-0" | 1/2" = 1'-0" | 3/4" = 1'-0" | 1" = 1'-0" | 1-1/2" = 1'-0" | 3" = 1'-0"

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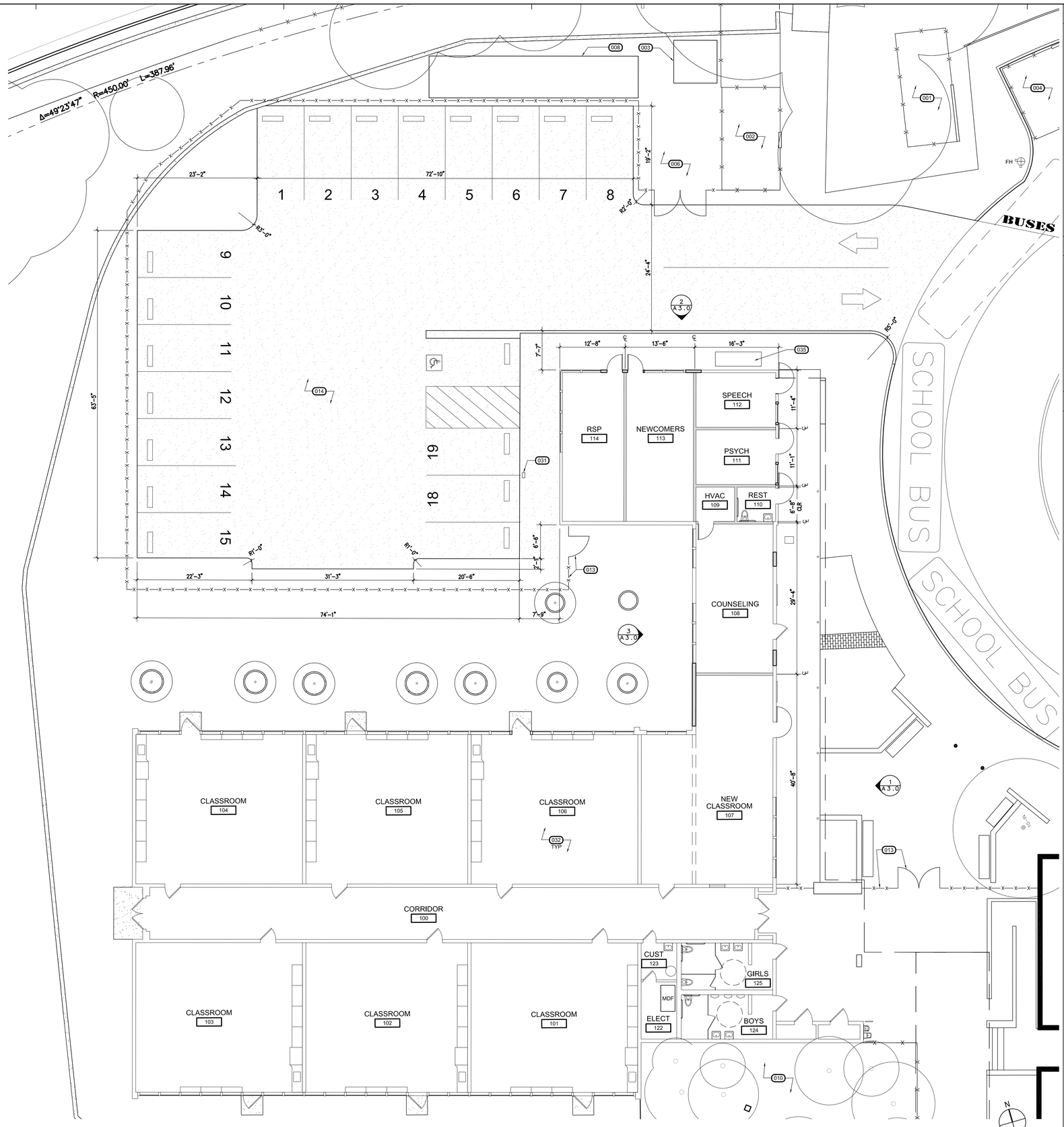


1 FLOOR PLAN

SCALE: 1/8" = 1'-0"

## GENERAL NOTES

## LEGEND

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SAN RAFAEL CITY SCHOOLS
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Architect of Record:

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510.446.2222 tel | 510.446.2211 fax


HY ARCHITECTS JOB NUMBER 4786

Facility

Project

SAN PEDRO ELEMENTARY SCHOOL
498 POINT SAN PEDRO ROAD
SAN RAFAEL, CA 94901

Sheet Title

FLOOR PLAN

| | | | |
|---|---|---|---|
| Scale | 1/8" = 1'-0" | Client Ref No. | |
| Drwn By | AA | Permit No. | |
| Chckd By | TS | Sheet | A2.1 |
| Issue Date | 8/9/17 | | |

FILE NAME: Y:\San Rafael City Schools\4786 San Pedro Elementary School\5 Current Drawings\SD Package\ A2.1 Building A Floor Plan.dwg REV. DATE & TIME: Wed, 9 Aug 2017 15:35:52 USERNAME: aalonzo

GRAPHIC SCALES: 1/16" = 1'-0" | 1/8" = 1'-0" | 1/4" = 1'-0" | 1/2" = 1'-0" | 3/4" = 1'-0" | 1" = 1'-0" | 1-1/2" = 1'-0" | 3" = 1'-0"

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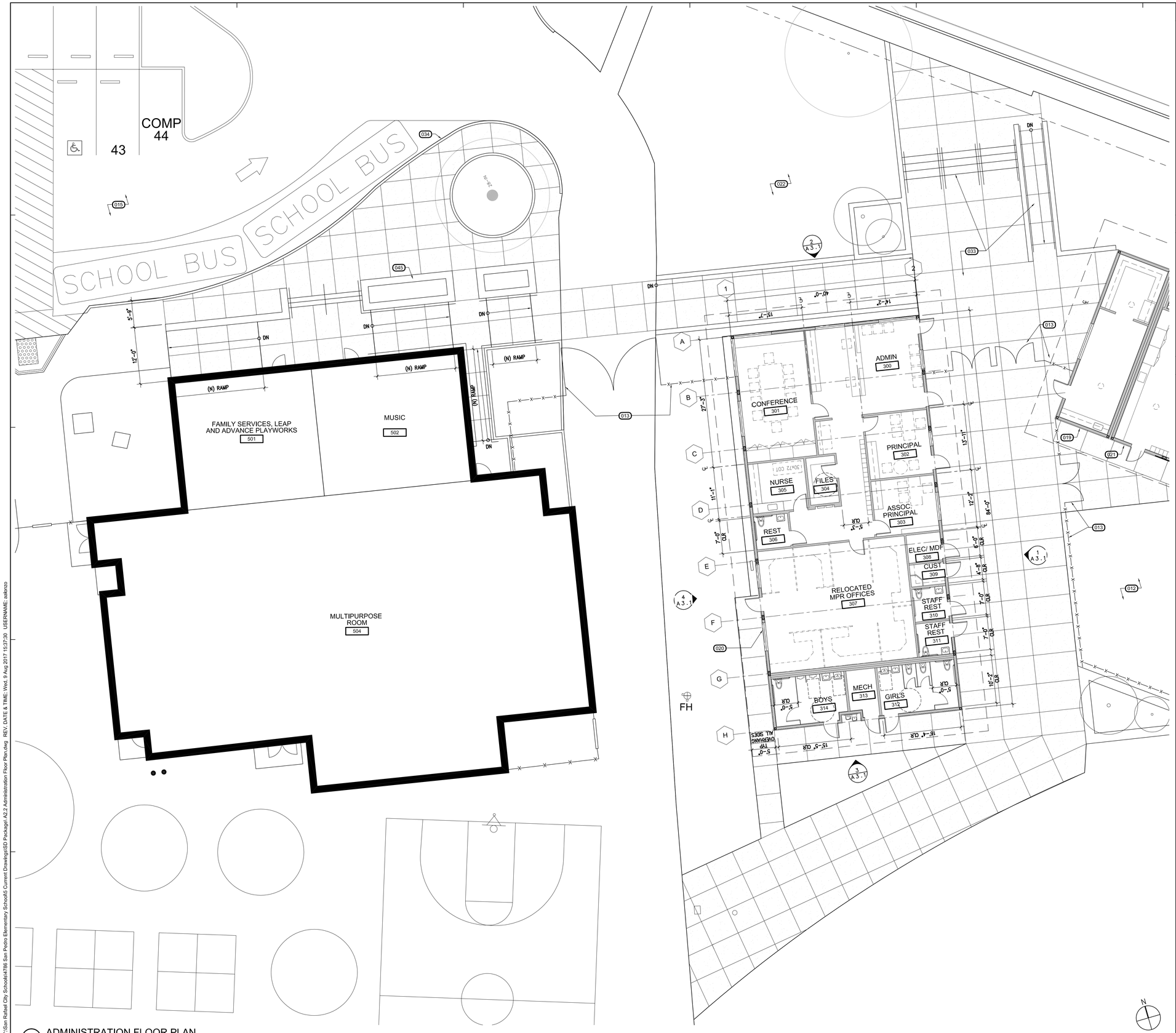


1 ADMINISTRATION FLOOR PLAN
SCALE: 1/8" = 1'-0"

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Revisions

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Architect of Record:

LICENSED ARCHITECT RANDOL A. HYBER C-27362 01-31-17 RENEWAL DATE STATE OF CALIFORNIA


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HY ARCHITECTS JOB NUMBER 4786

Facility

Project

SAN PEDRO ELEMENTARY SCHOOL
498 POINT SAN PEDRO ROAD
SAN RAFAEL, CA 94901

Sheet Title

ADMINISTRATION FLOOR PLAN

Scale 1/8" = 1'-0"
Drwn By AA
Chckd By TS
Issue Date 8/9/17

Client Ref No.
Permit No.
Sheet A2.2

FILE NAME: Y:\San Rafael City Schools\4786 San Pedro Elementary School\5 Current Drawings\SD Package\ A2.2 Administration Floor Plan.dwg REV. DATE & TIME: Wed, 9 Aug 2017 15:37:39 USERNAME: aalonzo

GRAPHIC SCALES: 1/16" = 1'-0" | 1/8" = 1'-0" | 1/4" = 1'-0" | 1/2" = 1'-0" | 3/4" = 1'-0" | 1" = 1'-0" | 1-1/2" = 1'-0" | 3" = 1'-0"

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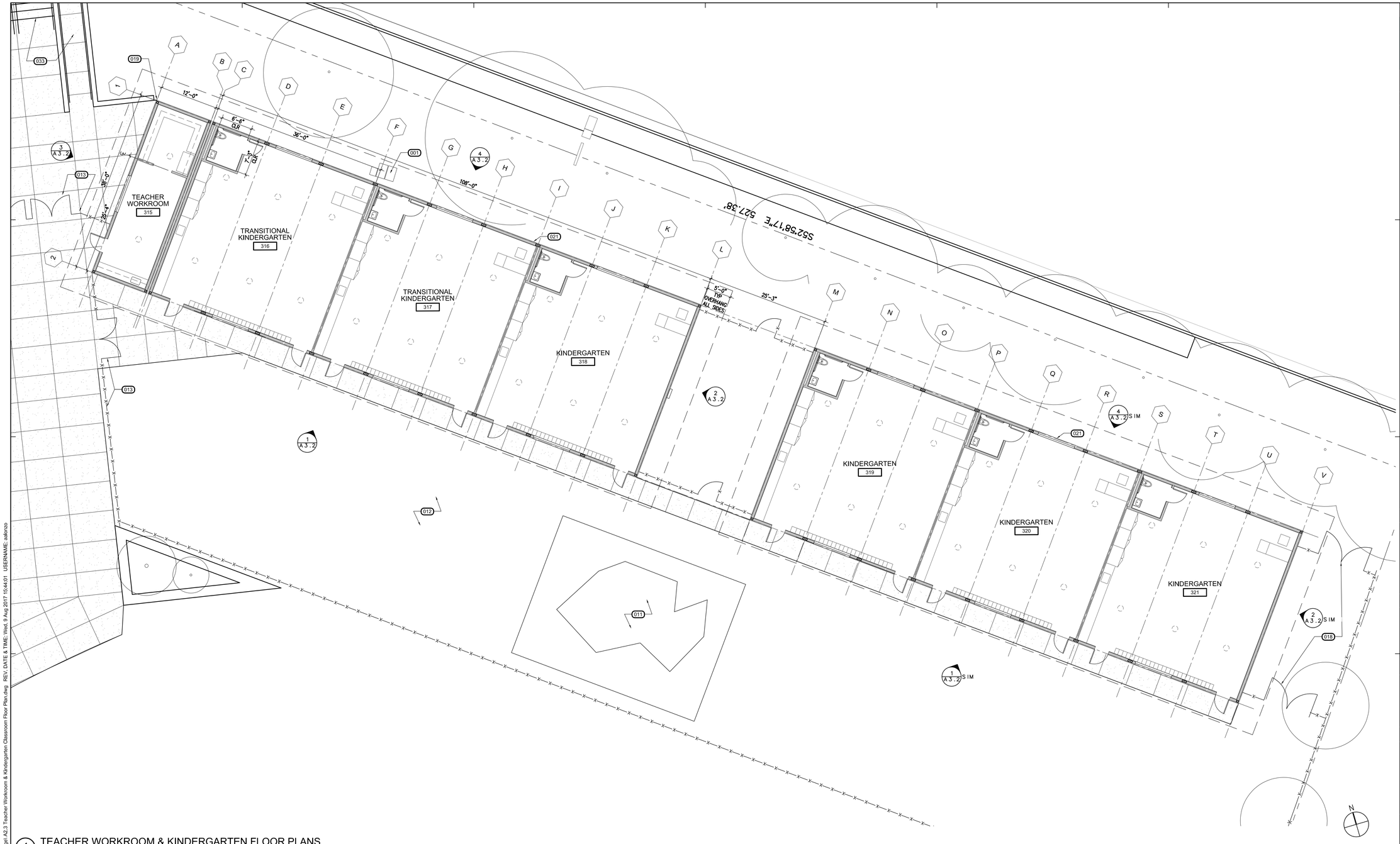


1 TEACHER WORKROOM & KINDERGARTEN FLOOR PLANS

SCALE: 1/8" = 1'-0"

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## GENERAL NOTES

SAN RAFAEL CITY SCHOOLS

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LICENSED ARCHITECT ILLINOIS A. HIBSER C-27362 01-31-17 RENEWAL DATE STATE OF CALIFORNIA

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TEACHER WORKROOM & KINDERGARTEN CLASSROOMS FLOOR PLANS

Scale 1/8" = 1'-0"
Drwn By AA
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Issue Date 8/9/17

Client Ref No.
Permit No.
Sheet A2.3

FILE NAME: Y:\San Rafael City Schools\4786 San Pedro Elementary School\5 Current Drawings\SD Package\ A2.3 Teacher Workroom & Kindergarten Classroom Floor Plan.dwg REV. DATE & TIME: Wed, 9 Aug 2017 15:44:01 USERNAME: adonzo

GRAPHIC SCALES: 1/16" = 1'-0" | 1/8" = 1'-0" | 1/4" = 1'-0" | 1/2" = 1'-0" | 3/4" = 1'-0" | 1" = 1'-0" | 1-1/2" = 1'-0" | 3" = 1'-0"

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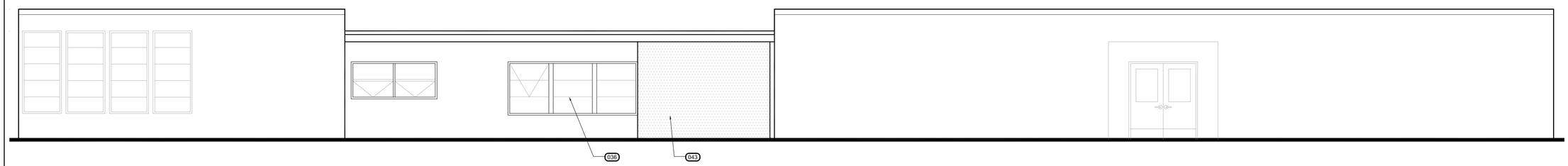
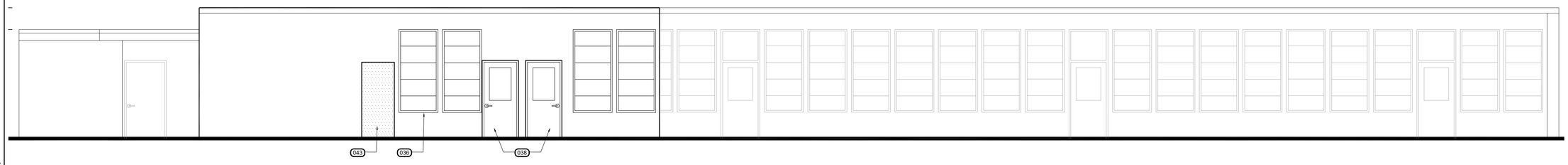


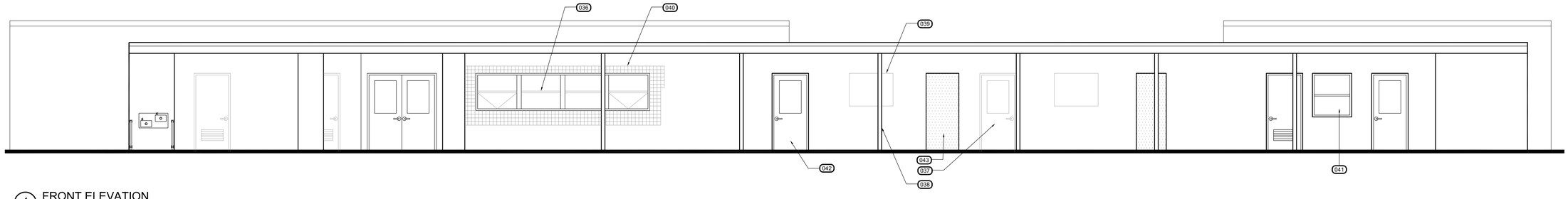

## 3 BACK ELEVATION

SCALE: 1/4" = 1'-0"




## 2 SIDE ELEVATION

SCALE: 1/4" = 1'-0"




## 1 FRONT ELEVATION

SCALE: 1/4" = 1'-0"

## KEY NOTES (XXX)

NOTE: NOT ALL NOTES ARE USED ON EVERY SHEET.

001 (E) ELECTRICAL EQUIPMENT & ENCLOSURE TO REMAIN, SED
002 (E) GAS MAIN & ENCLOSURE
003 (E) STORAGE SHED TO REMAIN
004 (E) WASTE ENCLOSURE TO REMAIN
005 (E) WASTE ENCLOSURE TO BE DEMOLISHED
006 (N) WASTE ENCLOSURE
007 (E) STORAGE CONTAINER TO BE RELOCATED
008 RELOCATED STORAGE CONTAINER
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010 (E) PEACE GARDEN AND AMPHITHEATER - NOT IN CONTRACT
011 (N) PLAY STRUCTURE & SAFETY SURFACE
012 (N) PLAYGROUND AREA
013 (N) CHAIN-LINK FENCE AND GATE(S)
014 EXPANDED NEW PARKING LOT - REMOVE EXISTING PORTABLES, CHAIN-LINK FENCE & GATES, TREE, CONC CURB RAMP, PLAY STRUCTURE, AND SAFETY SURFACE. PREP SITE FOR (N) DRIVEWAY AND PARKING
015 RE-STRIPE PARKING LOT
016 EXISTING BASEBALL BACKSTOP & DIAMOND
017 PREP SITE FOR (N) MODULAR BUILDINGS
018 NEW MAINTENANCE ACCESS CHAIN-LINK GATES
019 NEW TEACHER LOUNGE AND WORKROOM PC BUILDING, SEE 1/A2.3
020 NEW ADMINISTRATION AND RESTROOM MODULAR BUILDING
021 NEW TRANSITIONAL KINDERGARTEN & KINDERGARTEN CLASSROOM MODULAR BUILDING(S), SEE 1/A2.3
022 NEW MAIN ENTRANCE, LANDSCAPING, AND FLAG POLE, SLD
023 REMOVE EXISTING (8) PORTABLES, TYP
024 PREP SITE FOR NEW PLAYGROUND AREA
025 (E) TREE(S) TO BE REMOVED
026 (E) CHAIN-LINK FENCE TO BE REMOVED
027 (E) STORAGE SHED TO BE DEMOLISHED
028 PREP SITE FOR NEW SCHOOL BUS DROP OFF AREA
029 (E) PLAY STRUCTURE TO BE DEMOLISHED
030 (E) BASEBALL BACKSTOP & DIAMOND TO BE DEMOLISHED
031 (N) ELECTRIC VEHICLE CHARGING STATION, SED
032 NEW FINISHES WITHIN EACH EXISTING CLASSROOM (6) WHICH INCLUDES PAINT, FLOORING, CABINETRY, AND CEILING
033 (N) CONC STAIRS, RAMP, AND SIDEWALK
034 (N) DROP OFF AREA
035 (E) MSB PANEL TO REMAIN, SED
036 (E) WINDOW, TYP
037 (E) DOOR, TYP
038 (E) COLUMN, TYP
039 (E) OUTDOOR BULLETIN BOARD, TYP
040 PROTECT (E) 4x4 TILE
041 (N) HOLLOW METAL WINDOW (S)
042 (N) HOLLOW METAL DOOR
043 (N) STUCCO WALL, TYP
044 (N) TRENCH DRAIN IN CONCRETE
045 (E) RETAINING WALL TO REMAIN
046 (N) SEAT WALL, TYP
047 (N) 6'-0" TALL CHAIN-LINK FENCE AT HEAD START

## LEGEND

NOTE: NOT ALL ARE USED ON EVERY SHEET.

- (E) WALL TO BE DEMOLISHED, TYP
- (E) WALL TO REMAIN
- (N) WALL FRAMING W/ (N) WALL FINISH
- (E) DOOR, FRAME AND HARDWARE TO BE REMOVED
- (E) DOOR
- (N) DOOR, FRAME AND HARDWARE
- (E) WINDOW AND FRAME TO BE DEMOLISHED
- MODERNIZE BUILDING A
- (N) WINDOW (SEE EXT ELEVATIONS)
- (N) AC PAVING, SCD
- FIRE LANE
- (E) AC PAVING TO BE REMOVED, SCD
- (E) FIELD TO BE REMOVED,SCD

## GENERAL NOTES

SAN RAFAEL CITY SCHOOLS

310 NOVA ALBION WAY, SAN RAFAEL, CALIFORNIA 94903
TEL: 415.492.3200

Revisions

| No. | Revisions | By | Date | Appr. |
|---|---|---|---|---|

**DSA APPROVAL**

IDENTIFICATION STAMP
DIVISION OF STATE ARCHITECT

APPL.

AC FLS SS

DATE

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Engineer Of Record:

Architect of Record:

LICENSED ARCHITECT MARCUS A. HYAMES C-27362 01-31-17 RENEWAL DATE STATE OF CALIFORNIA

HIBSER YAMAUCHI ARCHITECTS, INC.
300 - 27th Street
Oakland, CA 94612
510.446.2222 tel | 510.446.2211 fax

HY ARCHITECTS JOB NUMBER 4786

Facility

Project

SAN PEDRO ELEMENTARY SCHOOL
498 POINT SAN PEDRO ROAD
SAN RAFAEL, CA 94901

Sheet Title

EXTERIOR ELEVATIONS – BUILDING A

| | |
|---|---|
| Scale 1/4" = 1'-0" | Client Ref No. |
| Drwn By AA | Permit No. |
| Chckd By TS | Sheet A3.0 |
| Issue Date 8/9/17 | |

FILE NAME: Y:\San Rafael City Schools\4786 San Pedro Elementary School\5 Current Drawings\SD Package\ A3.0 Elevations - Building A.dwg REV. DATE & TIME: Wed, 9 Aug 2017 15:51:31 USERNAME: aalonzo

GRAPHIC SCALES: 1/16" = 1'-0" | 1/8" = 1'-0" | 1/4" = 1'-0" | 1/2" = 1'-0" | 3/4" = 1'-0" | 1" = 1'-0" | 1-1/2" = 1'-0" | 3" = 1'-0"

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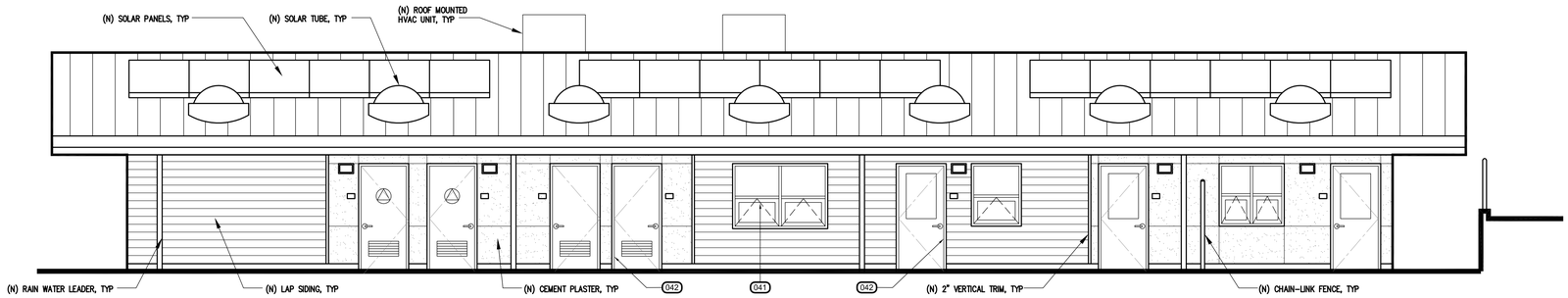
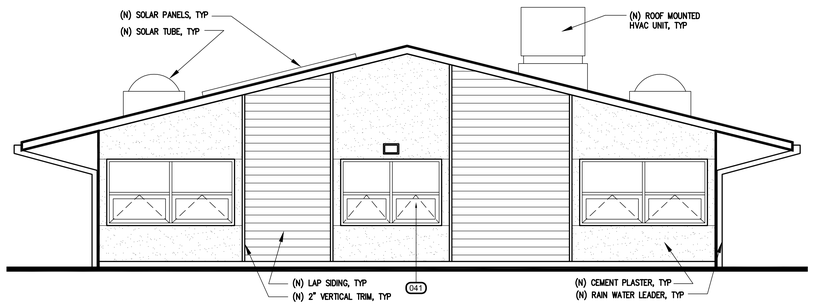
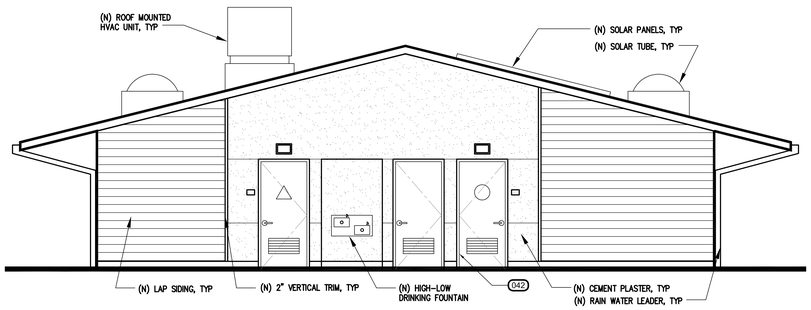



1 FRONT ELEVATION
SCALE: 1/4" = 1'-0"




2 SIDE ELEVATION
SCALE: 1/4" = 1'-0"




3 SIDE ELEVATION
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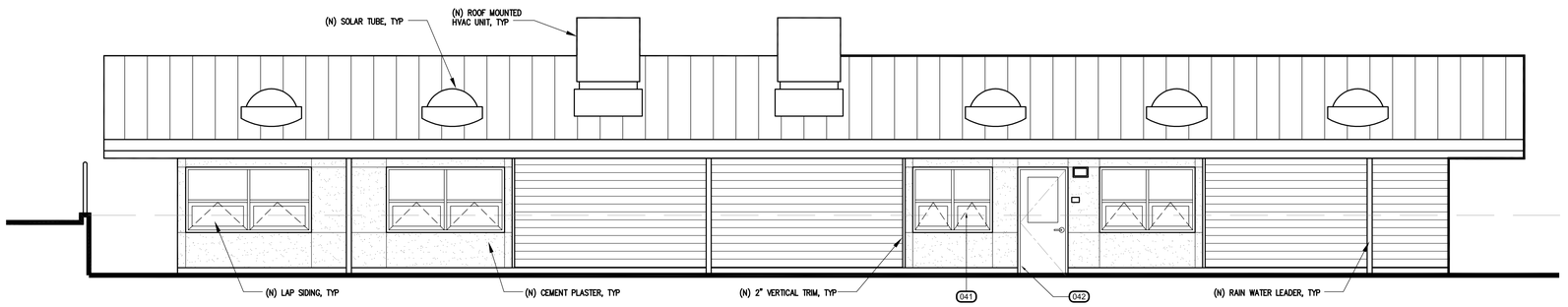


4 BACK ELEVATION
SCALE: 1/4" = 1'-0"

## KEY NOTES (XXX)

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## GENERAL NOTES

SAN RAFAEL CITY SCHOOLS
310 NOVA ALBION WAY, SAN RAFAEL, CALIFORNIA 94903
TEL: 415.492.3200

Revisions

| No. | Revisions | By | Date | Appr. |
|---|---|---|---|---|

**DSA APPROVAL**
IDENTIFICATION STAMP
DIVISION OF STATE ARCHITECT
APPL.
AC FLS SS
DATE

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Engineer Of Record:

Architect of Record:
LICENSED ARCHITECT
THOMAS A. HYDERS
C-27362
01-31-17
RENEWAL DATE
STATE OF CALIFORNIA

HIBSER YAMAUCHI ARCHITECTS, INC.
300 - 27th Street
Oakland, CA 94612
510.446.2222 tel | 510.446.2211 fax

HY ARCHITECTS JOB NUMBER 4786

Facility

Project
SAN PEDRO ELEMENTARY SCHOOL
498 POINT SAN PEDRO ROAD
SAN RAFAEL, CA 94901

Sheet Title
EXTERIOR ELEVATIONS – ADMINISTRATION MODULAR

| | | | |
|---|---|---|---|
| Scale | 1/4" = 1'-0" | Client Ref No. | |
| Drwn By | AA | Permit No. | |
| Chckd By | TS | Sheet | A3.1 |
| Issue Date | 8/9/17 | | |

FILE NAME: Y:\San Rafael City Schools\4786 San Pedro Elementary School\5 Current Drawings\SD Package\ A3.1 Elevations - Modulars.dwg REV. DATE & TIME: Wed, 9 Aug 2017 16:32:41 USERNAME: saborzo

GRAPHIC SCALES: 1/16" = 1'-0" | 1/8" = 1'-0" | 1/4" = 1'-0" | 1/2" = 1'-0" | 3/4" = 1'-0" | 1" = 1'-0" | 1-1/2" = 1'-0" | 3" = 1'-0"

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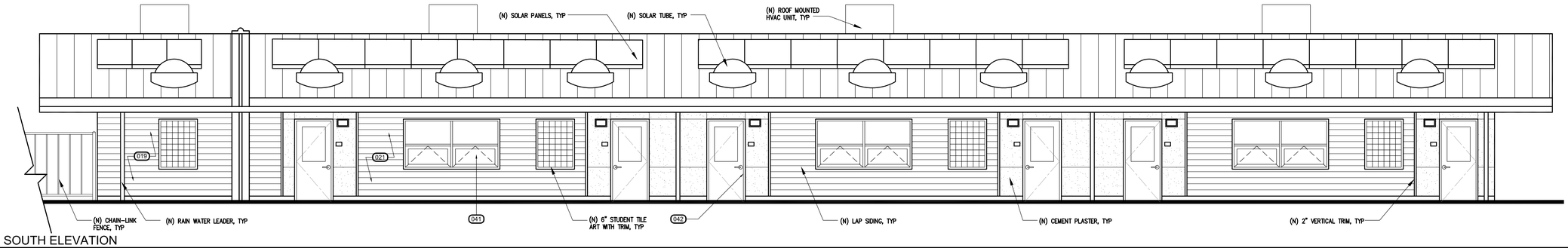


1 SOUTH ELEVATION
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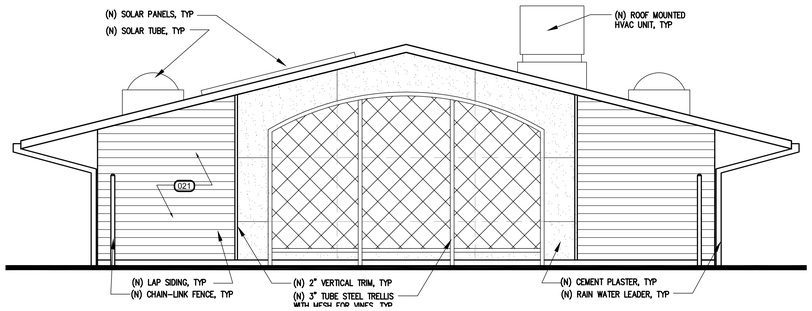


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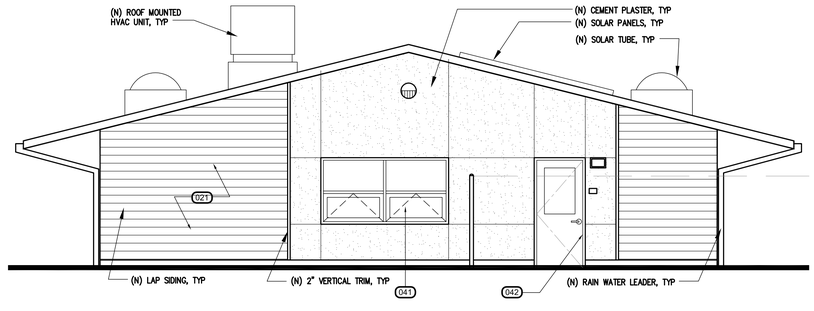


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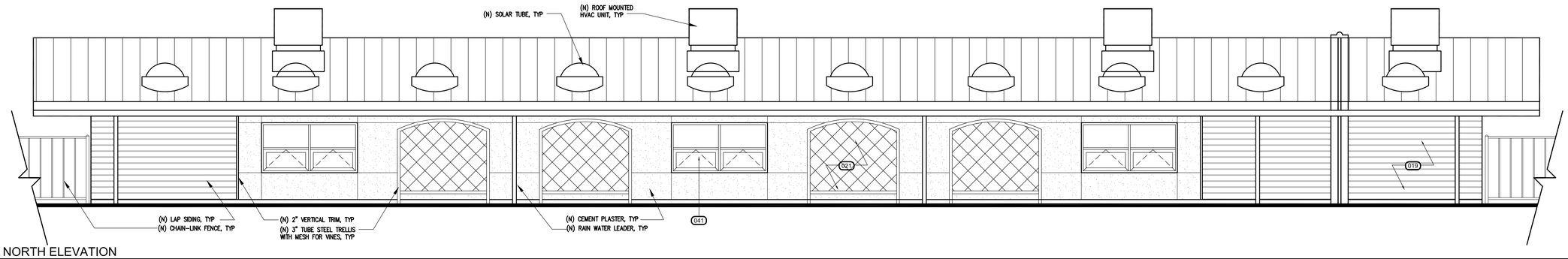


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## GENERAL NOTES

SAN RAFAEL CITY SCHOOLS
310 NOVA ALBION WAY, SAN RAFAEL, CALIFORNIA 94903
TEL: 415.492.3200

Revisions

| No. | Revisions | By | Date | Appr. |
|---|---|---|---|---|

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DATE

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Engineer Of Record:

Architect of Record:
LICENSED ARCHITECT — BRIGID A. HYNES — C-27362 — 01-31-17 RENEWAL DATE — STATE OF CALIFORNIA

HIBSER YAMAUCHI ARCHITECTS, INC.
300 - 27th Street
Oakland, CA 94612
510.446.2222 tel | 510.446.2211 fax

HY ARCHITECTS JOB NUMBER 4786

Facility

Project
SAN PEDRO ELEMENTARY SCHOOL
498 POINT SAN PEDRO ROAD
SAN RAFAEL, CA 94901

Sheet Title
EXTERIOR ELEVATIONS – TEACHER WORKROOM & CLASSROOM MODULARS

Scale 1/4" = 1'-0"
Drwn By AA
Chckd By TS
Issue Date 8/9/17

Client Ref No.
Permit No.
Sheet A3.2

FILE NAME: Y:\San Rafael City Schools\4786 San Pedro Elementary School\5 Current Drawings\SD Package\ A3.2 Elevations - Classroom Modulars.dwg REV. DATE & TIME: Wed, 9 Aug 2017 16:58:53 USERNAME: aalonzo

GRAPHIC SCALES: 1/16" = 1'-0" | 1/8" = 1'-0" | 1/4" = 1'-0" | 1/2" = 1'-0" | 3/4" = 1'-0" | 1" = 1'-0" | 1-1/2" = 1'-0" | 3" = 1'-0"

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# GENERAL ELECTRICAL NOTES

1. ELECTRICAL CONTRACTOR IS TO PROVIDE LABOR, MATERIALS, TRANSPORTATION, EQUIPMENT, RELATED HAND TOOLS, SPECIAL AND OCCASIONAL SERVICES TO CONSTRUCT AND INSTALL THE COMPLETE ELECTRICAL SYSTEM AS SPECIFIED AND SHOWN ON THE PLANS.
2. MOUNTING HEIGHTS SHALL BE A MAXIMUM +48" TO TOP OF BOX OR MINIMUM 15" TO BOTTOM OF BOX PER CBC 117B.6.5. ALL MOUNTING HEIGHTS SHALL BE AS SHOWN ON SYMBOL LIST UNLESS OTHERWISE NOTED ON DRAWINGS.
3. BONDING JUMPERS SHALL BE INSTALLED TO INSURE CONTINUITY WHERE CONDUIT CONNECTIONS AT CONCENTRIC KNOCKOUTS ARE TO SERVE AS A GROUND.
4. PROVIDE GREEN THWN COPPER GROUND WIRE FROM PANELBOARD GROUND BUS TO ALL BRANCH CIRCUITS.
5. THE ELECTRICIAN SHALL CHECK THE TIGHTNESS OF ALL PANELBOARD BUSES AND CIRCUIT BREAKER LUGS. COMPLETELY VACUUM AND CLEAN INTERIOR OF EQUIPMENT PRIOR TO TURN OVER TO THE OWNER.
6. ALL NEW AND EXISTING PANELBOARDS AND SWITCHBOARDS SHALL BE PROVIDED WITH NEW TYPEWRITTEN DIRECTORIES TO IDENTIFY THE LOCATION OF EACH LOAD SERVED.
7. ALL EQUIPMENT SHALL BE U.L. LISTED AND INSTALLED AS PER LISTING OR LABELING (I.E. MAX. FUSE SIZES MEAN FUSE PROTECTION REQUIRED).
8. REFER TO ARCHITECTURAL DRAWINGS FOR ACTUAL LAYOUTS OF ALL LIGHTING FIXTURES AND EQUIPMENT.
9. CONTRACTOR TO COORDINATE ALL NEW WORK WITH ALL OTHER TRADES FOR A SMOOTH FLOW OF INSTALLATION WORK.
10. ELECTRICAL CONTRACTOR SHALL BE RESPONSIBLE FOR DAMAGES TO ALL WALLS, FLOORS AND CEILINGS INCURRED DURING ELECTRICAL CONSTRUCTION. IF DAMAGE OCCURS DURING ELECTRICAL CONSTRUCTION, THE ELECTRICAL CONTRACTOR SHALL COORDINATE WITH GENERAL CONTRACTOR TO PATCH, PAINT AND REPAIR TO MATCH EXISTING CONDITIONS.
11. COORDINATE EQUIPMENT LOCATIONS AND ELECTRICAL REQUIREMENTS OF ALL EQUIPMENT REQUIRING ELECTRICAL HOOK-UP WITH CONTRACTOR RESPONSIBLE FOR PROVIDING EQUIPMENT AND EQUIPMENT MANUFACTURER DATA SHEETS.
12. COORDINATE ELECTRICAL OUTLET LOCATIONS WITH ARCHITECTURAL ELEVATIONS (I.E. CABINETRY). AVOID ALL COUNTER SUPPORTS, AND LOCATIONS BEHIND INACCESSIBLE FIXED CABINETS.
13. UPON COMPLETION OF THE INSTALLATION OF THE FIRE PROTECTIVE SIGNALING EQUIPMENT, A SATISFACTORY TEST OF THE ENTIRE SYSTEM SHALL BE MADE IN THE PRESENCE OF THE ENFORCING FIRE AGENCY.
14. FLUORESCENT LIGHT FIXTURES SHALL HAVE CERTIFIED LUMINAIRE/BALLASTS PER STATE OF CALIFORNIA BUILDING ENERGY STANDARDS 2-5314(a).
15. ALL CORRIDOR AND EXTERIOR WALL PENETRATIONS FOR PIPES, CONDUITS, ETC., IN WALLS REQUIRING PROTECTED OPENINGS SHALL BE FIRE STOPPED. FIRE STOP MATERIAL SHALL BE A TESTED ASSEMBLY APPROVED BY THE CALIFORNIA STATE FIRE MARSHAL.
16. ELECTRICAL CONTRACTOR SHALL REVIEW MECHANICAL AND PLUMBING CONTRACT DRAWINGS AND VERIFY ALL MECHANICAL EQUIPMENT LOCATIONS, MOTOR SIZES AND CONTROL WIRING REQUIREMENTS WITH MECHANICAL CONTRACTOR AND MECHANICAL EQUIPMENT SUPPLIERS AND MANUFACTURERS PRIOR TO INSTALLATION OF ELECTRICAL CONNECTIONS.
17. RECEPTACLES SHALL NOT BE INSTALLED BACK TO BACK AND SHALL BE SPACED 24" APART. WHERE RECEPTACLES CANNOT BE SPACED 24" APART, PROVIDE 3M FIRE RATED PUTTY PADS TO MATCH WALL FIRE RATING.
18. PROVIDE AN ISOLATED GROUND WIRE IN ADDITION TO NORMAL EQUIPMENT GROUND IN ALL COMPUTER DEDICATED CIRCUITS.
19. ALL CONTROL DEVICES TO BE USED BY THE OCCUPANT OF THE ROOM OR AREA SHALL BE INSTALLED AT A MINIMUM OF 36" C/L, TO A MAXIMUM OF 48" TO TOP OF BOX FROM THE FINISHED FLOOR.
20. VERIFY EXACT REQUIREMENTS REQUIRED REGARDING SIZE, QUANTITY AND LOCATION OF EQUIPMENT WITH PACIFIC GAS AND ELECTRIC BEFORE MAKING ANY INSTALLATIONS INVOLVING THEIR EQUIPMENT.
21. VERIFY EXACT REQUIREMENTS REQUIRED REGARDING SIZE, QUANTITY AND LOCATION OF EQUIPMENT WITH AT&T BEFORE MAKING ANY INSTALLATIONS INVOLVING THEIR EQUIPMENT.
22. ELECTRICAL DRAWINGS ARE DIAGRAMMATIC AND ALTHOUGH THE SIZE AND LOCATIONS OF EQUIPMENT IS SHOWN TO SCALE WHEREVER POSSIBLE, CONTRACTOR SHALL MAKE USE OF MANUFACTURER'S OR OWNER'S DATA AVAILABLE AND/OR VERIFY DATA IN THE FIELD FOR PROVIDING AND INSTALLING CORRECT CABLE LENGTHS.
23. ALL EQUIPMENT MUST BE LISTED, LABELED, OR CERTIFIED BY A NATIONAL RECOGNIZED TESTING LABORATORY (NRTL).
24. ELECTRICAL CONTRACTOR SHALL COORDINATE WITH ALL TRADES TO KEEP ELECTRICAL ROOMS EXCLUSIVELY DEDICATED TO PANELBOARDS, SIGNAL AND OTHER ELECTRICAL EQUIPMENT. NO PLUMBING, PIPING OR MECHANICAL DUCTS SHALL RUN OVER ELECTRICAL PANEL OR OTHER ELECTRICAL EQUIPMENT PER C.E.C. 110-26(f).
25. ALL SWITCHES AND RECEPTACLES SHALL BE PROVIDED WITH 'BROTHER' LABELING SYSTEM TO IDENTIFY THE PANEL AND CIRCUIT NUMBER OF EACH OUTLET. COLOR TO BE 3/8" HIGH BLACK ON TRANSPARENT TAPE.
26. ALL CABINETS, DISCONNECT SWITCHES, PULLBOXES, AND TERMINAL BOXES SHALL BE PROVIDED WITH LABELING SYSTEM TO IDENTIFY THE PANEL AND ITS USE. SEE SPECIFICATIONS FOR REQUIREMENTS.
27. MAINTAIN "AS-BUILT" RECORDS AT ALL TIMES, SHOWING EXACT LOCATION OF ALL UNDERGROUND AND/OR CONCEALED CONDUITS AND SERVICES INSTALLED UNDER THIS CONTRACT, INCLUDING CIRCUIT IDENTIFICATION WHERE APPLICABLE. PROVIDE OWNER WITH "AS-BUILT" DOCUMENTS AS INDICATED IN THE PROJECT MANUAL.
28. DRAWINGS INDICATE THE LOCATION OF DEVICES, FIXTURES AND EQUIPMENT AND THE CIRCUIT NUMBER AND PANEL DESIGNATION WHICH SUPPLIES THEM. THE CONTRACTOR SHALL VERIFY WITH ARCHITECT/VENDORS AND COORDINATE ALL LOCATIONS PRIOR TO INSTALLATION. CONTRACTOR SHALL BE RESPONSIBLE FOR COMPLETELY CONNECTING ALL ELECTRICAL DEVICES TO CIRCUITS INDICATED ON THE DRAWINGS.
29. ALL EQUIPMENT GROUNDING SHALL CONFORM TO ARTICLE 250 OF THE NATIONAL ELECTRIC CODE, LATEST EDITION.
30. ALL EXTERIOR CONDUIT ABOVE GRADE INCLUDING ALL ROOF MOUNTED CONDUIT, SHALL BE RIGID GALVANIZED STEEL, U.O.N. COAT ALL EXPOSED THREADS WITH GALVANIZING PAINT.
31. ALL CONDUIT SHALL BE CONCEALED, UNLESS OTHERWISE NOTED.
32. ALL UNDERGROUND CONDUIT RUNS SHALL BE SEALED TO PREVENT GAS/MOISTURE ENTERING THE PIPE PER ARTICLE 230-8, 300.5 AND 300.50E.
33. PROVIDE EXPANSION FITTINGS AND/OR CONDUIT FLEX TO CONDUITS PASSING THROUGH STRUCTURAL EXPANSION JOINT SYSTEM. VERIFY/COORDINATE WITH ARCHITECT FOR LOCATION.
34. ALL SIGNAL WIRING/CABLING(TELEPHONE/INTERCOM/DATA/FIRE ALARM/CATV/INTRUSION ALARM SYSTEMS) SHALL BE NEATLY TERMINATED WITH TERMINAL BLOCKS AND LABELED WITH WIRE MARKERS AT ITS CABINETS/PANELS.
35. ALL RACEWAY PASSING THROUGH EXPANSION JOINT AREA SHALL BE PROVIDED WITH EXPANSION JOINT FITTINGS AND/OR FLEX CONDUIT AS REQUIRED.
36. ALL FIXTURES WITH EMERGENCY BATTERY PACK SHALL BE PROVIDED WITH UNSWITCHED HOT.
37. ALL EXTERIOR MOUNTED GFI RECEPTACLE OUTLETS TO BE PROVIDED WITH LOCKABLE COVERS, TAYMAC MX3200.
38. FOR POWER AND LIGHTING CIRCUITS, CONTRACTOR SHALL PROVIDE SEPARATE NEUTRAL FOR EACH CIRCUIT IN THE RACEWAY OR PROVIDE BREAKER TIES TO MEET NEC CODE 210.4.
39. ALL EQUIPMENT/COMPONENTS/DEVICES INSTALLED OUTDOOR SHALL BE U.L. LISTED FOR WET LOCATION.
40. THE CONTRACTOR SHALL PAY FOR ALL REQUIRED PERMITS AND INSPECTION FEES.
41. THE CONTRACTOR SHALL VERIFY WITH THE ARCHITECTURAL DRAWINGS ALL LOCATIONS AND DIMENSIONS OF DEVICES/EQUIPMENT PRIOR TO ROUGH-IN.
42. ALL EXIT SIGNS SHALL COMPLY WITH SECTIONS 1013-2 AND 1013-3 OF THE U.B.C.
43. ALL DIVISION 15 EQUIPMENT LOW VOLTAGE CONTROL WIRING SHALL BE PROVIDED AND INSTALLED BY DIVISION 15 U.O.N. PROVIDE CONDUIT WHERE REQUIRED BY DIV 15.
44. COORDINATE INSTALLATION OF ALL RECESSED LIGHT FIXTURES WITH DIVISION 15 PRIOR TO INSTALLATION OF HVAC DUCTS AND SPRINKLER HEADS. ENSURE AFTER INSTALLATION OF FIXTURES THAT THERE IS NO CONTACT BETWEEN DUCTS AND FIXTURES TO AVOID VIBRATION IN FIXTURES.
45. ALL CONDUIT STUB OUTS AND CONDUITS TERMINATING TO A J-BOX, CABINET, AND THE LIKE SHALL BE PROVIDED WITH INSULATED THROAT. BOX OR CABINET COVER SHALL BE LABELED AS TO USE.
46. <u>MEP COMPONENT ANCHORAGE NOTES</u>:

ALL MECHANICAL, PLUMBING, AND ELECTRICAL COMPONENTS SHALL BE ANCHORED AND INSTALLED PER THE DETAILS ON THE DSA APPROVED CONSTRUCTION DOCUMENTS. WHERE NO DETAIL IS INDICATED, THE FOLLOWING COMPONENTS SHALL BE ANCHORED OR BRACED TO MEET THE FORCE AND DISPLACEMENT REQUIREMENTS PRESCRIBED IN THE 2013 CBC, SECTIONS 1616A.1.18 THROUGH 1616A.1.26 AND ASCE 7-10 CHAPTER 13, 26 AND 30.

1. ALL PERMANENT EQUIPMENT AND COMPONENTS.
2. TEMPORARY OR MOVABLE EQUIPMENT THAT IS PERMANENTLY ATTACHED (E.G. HARD WIRED) TO THE BUILDING UTILITY SERVICES SUCH AS ELECTRICITY, GAS OR WATER.
3. MOVABLE EQUIPMENT WHICH IS STATIONED IN ONE PIECE FOR MORE THAN 8 HOURS AND HEAVIER THAN 400 POUNDS ARE REQUIRED TO BE ANCHORED WITH TEMPORARY ATTACHMENTS.

THE FOLLOWING MECHANICAL AND ELECTRICAL COMPONENTS SHALL BE POSITIVELY ATTACHED TO THE STRUCTURE, BUT THE ATTACHMENT NEED NOT BE DETAILED ON THE PLANS. THESE COMPONENTS SHALL HAVE FLEXIBLE CONNECTIONS PROVIDED BETWEEN THE COMPONENT AND ASSOCIATED DUCTWORK, PIPING AND CONDUIT.

A. COMPONENTS WEIGHING LESS THAN 400 POUNDS AND HAVE A CENTER OF MASS LOCATED 4 FEET OR LESS ABOVE THE ADJACENT FLOOR OR ROOF LEVEL THAT DIRECTLY SUPPORT THE COMPONENT.
B. COMPONENTS WEIGHING LESS THAN 20 POUNDS OR IN THE CASE OF DISTRIBUTED SYSTEMS, LESS THAN 5 POUNDS PER FOOT, WHICH ARE SUSPENDED FROM A ROOF OR FLOOR OR HUNG FROM A WALL.

FOR THOSE ELEMENTS THAT DO NOT REQUIRE DETAILS ON THE APPROVED DRAWINGS, THE INSTALLATION SHALL BE SUBJECT TO THE APPROVAL OF THE DESIGN PROFESSIONAL IN GENERAL RESPONSIBLE CHARGE OR STRUCTURAL ENGINEER DELEGATED RESPONSIBILITY AND THE DSA DISTRICT STRUCTURAL ENGINEER. THE PROJECT INSPECTOR WILL VERIFY THAT ALL COMPONENTS AND EQUIPMENT HAVE BEEN ANCHORED IN ACCORDANCE WITH ABOVE REQUIREMENTS.

<u>PIPING, DUCTWORK, AND ELECTRICAL DISTRIBUTION SYSTEM BRACING NOTE</u>

PIPING, DUCTWORK AND ELECTRICAL DISTRIBUTION SYSTEMS SHALL BE BRACED TO COMPLY WITH THE FORCES AND DISPLACEMENTS PRESCRIBED IN ASCE 7-10 SECTION 13.3 AS DEFINED IN ASCE 7-10 SECTION 13.6.5.6, 13.6.7, 13.6.8 AND 2013 CBC, SECTIONS 1616A.1.23, 1616A.1.24, 1616A.1.25 AND 1616A.1.26.

THE METHOD OF SHOWING BRACING AND ATTACHMENTS TO THE STRUCTURE FOR THE IDENTIFIED DISTRIBUTION SYSTEM ARE AS NOTED BELOW. WHEN BRACING AND ATTACHMENTS ARE BASED ON A PREAPPROVED INSTALLATION GUIDE (E.G. SMACNA OR OSHPD OPM), COPIES OF THE BRACING SYSTEM INSTALLATION GUIDE OR MANUAL SHALL BE AVAILABLE ON THE JOBSITE PRIOR TO THE START OF AND DURING THE HANGING AND BRACING OF THE DISTRIBUTION SYSTEMS. THE STRUCTURAL ENGINEER OF RECORD SHALL VERIFY THE ADEQUACY OF THE STRUCTURE TO SUPPORT THE HANGER AND BRACE LOADS.

MECHANICAL PIPING (MP), MECHANICAL DUCTS (MD), PLUMBING PIPING (PP), ELECTRICAL DISTRIBUTION SYSTEMS (E):

MP☐ MD☐ PP☐ E[X] – OPTION 1: DETAILED ON THE APPROVED DRAWINGS WITH PROJECT SPECIFIC NOTES AND DETAILS.

MP☐ MD☐ PP☐ E[X] – OPTION 2: SHALL COMPLY WITH THE APPLICABLE OSHPD PRE-APPROVAL (OPM #) #0043-13, 0052-13, 0063-13.

# ELECTRICAL SYMBOL LIST

NOTE: DASHED SYMBOLS ON PLANS DENOTE EXISTING DEVICES

- LED LIGHT FIXTURE AND OUTLET – SEE FIXTURE SCHEDULE
- EMERGENCY LIGHT FIXTURE WITH BATTERY PACK – SEE FIXTURE SCHEDULE
- WALL MOUNTED LIGHT FIXTURE – SEE FIXTURE SCHEDULE
- EXIT SIGN – WALL OR CEILING MOUNT WITH DIRECTIONAL ARROWS WHERE INDICATED SEE FIXTURE SCHEDULE
- EMERGENCY LIGHT FIXTURE – SEE FIXTURE SCHEDULE
- S 1PST LIGHT SWITCH +48" U.O.N.
- $S_3$ 3-WAY LIGHT SWITCH, +48" U.O.N.
- $S_D$ DIMMER LIGHT SWITCH, +48" U.O.N.
- $S_K$ KEYED LIGHT SWITCH +48" U.O.N.
- DLM1 LIGHTING CONTROLLER WITH DAYLIGHTING, SEE DIAGRAMS
- DLM2 LIGHTING/PLUGLOAD CONTROLLER, SEE DIAGRAMS
- DLM3 LIGHTING CONTROLLER WITHOUT DAYLIGHTING, SEE DIAGRAMS
- OS CEILING MOUNT DUAL TECHNOLOGY OCCUPANCY SENSOR, WATTSTOPPER LMDC-100
- DT DIMMING SWITCH, WATTSTOPPER #LMDM-101, +48" TO TOP OF BOX
- MT ULTRASONIC WALL SWITCH SENSOR, WATTSTOPPER #UW-100, +48" TO TOP OF BOX
- MZ DIMMING SWITCH WITH OCC SENSOR, LUTRON MS-Z101-XX
- OS CEILING MOUNTED OCCUPANCY SENSOR WITH POWER PACK, LUTRON LOS-CDT-PP-DV
- 20A, 125V, 4W DUPLEX TYPE RECEPTACLE, ONE PLUG HOT, ONE CONTROLLED. BY DLM2, SEE DIAGRAMS
- 20A, 125V, 3W GROUNDING TYPE DUPLEX RECEPTACLE, +18" U.O.N.
- 20A, 125V, 4W DUPLEX RECEPTACLE, CEILING MOUNTED
- 20A, 125V, 4W FOURPLEX ISOLATED GROUND TYPE RECEPTACLE, +18" U.O.N.
- 20A, 125V, 3W GROUNDING TYPE, FOURPLEX RECEPTACLE, +18" U.O.N.
- 20A, 125V, 3W GROUNDING TYPE DUPLEX RECEPTACLE, MOUNTED HORIZONTALLY
- 20A, 125V DUPLEX GFI RECEPTACLE, +18" U.O.N.
- 20A, 125V DUPLEX GFI RECEPTACLE WITH ONE SWITCHED PLUG
- SPECIAL RECEPTACLE AS REQUIRED BY EQUIPMENT SPECIFIED
- KP INTRUSION ALARM KEYPAD
- D INTRUSION ALARM DOOR CONTACT WITH DELAY ENTRY
- A INTRUSION ALARM MOTION SENSOR WITH 35', 50', 60' COVERAGE AS REQUIRED FOR FULL COVERAGE OF ROOM (DETECTION SYSTEMS #DS835, DS860 AND DS775)
- DUPLEX DATA OUTLET +18" U.O.N.
- FOURPLEX OUTLET +18" U.O.N.
- TELEPHONE OUTLET +48" TO TOP OF BOX
- INTERCOM CLOCK/SPEAKER
- S INTERCOM SPEAKER, CEILING OR WALL MOUNT
- J JUNCTION BOX, CEILING OR WALL MOUNTED – SIZED PER CODE
- DISCONNECT SWITCH – FUSED AS REQUIRED, WEATHERPROOF FOR OUTDOORS, SIZED PER MANUFACTURER'S REQUIREMENTS
- MOTOR CONNECTION
- $S^T$ THERMAL OVERLOAD SWITCH
- $S_M$ MANUAL MOTOR STARTING SWITCH, HORSE POWER RATED WITH OVERLOADS
- BRANCH CIRCUIT CONDUIT CONCEALED IN WALL OR CEILING
- BRANCH CIRCUIT CONDUIT CONCEALED UNDER FLOOR OR UNDERGROUND
- EXISTING CONDUIT
- HOMERUN TO PANELBOARD OR OTHER TERMINATION POINT
- STUB CONDUIT TO ACCESSIBLE SPACE
- CONDUIT UP
- CONDUIT DOWN

ANY BRANCH CIRCUIT CONDUIT SHALL BE MINIMUM 3/4"C – 2#12, 1#12 GREEN GROUND UNLESS OTHERWISE NOTED. FOR A GREATER NUMBER OF #12 WIRES: (—HH— = 3/4"C – 3#12, 1#12G) ETC. FOR WIRE SIZES OTHER THAN #12: (—HH—#8 = 3#8, 1#12G), (GROUND SIZED PER CEC, IN CODE SIZE CONDUIT) ETC.

| | |
|---|---|
| AL | ALUMINUM |
| ANN | ANNUNCIATOR |
| CL | CENTERLINE |
| CR | CLASSROOM |
| CSTC | CLOCK/SPEAKER TERMINAL CABINET |
| CU | COPPER |
| FMCS | FACILITIES MANAGEMENT CONTROL SYSTEM |
| FACP | FIRE ALARM CONTROL PANEL |
| FATC | FIRE ALARM TERMINAL CABINET |
| GFI | GROUND FAULT INTERRUPTER |
| GFP | GROUND FAULT PROTECTION |
| IACP | INTRUSION ALARM CONTROL PANEL |
| IATC | INTRUSION ALARM TERMINAL CABINET |
| IC | INTERCOM |
| IDF | INTERMEDIATE DISTRIBUTION FRAME |
| IG | ISOLATED GROUND |
| MDF | MAIN DISTRIBUTION FRAME |
| MT | EMPTY CONDUIT WITH PULL CORD |
| PB | PULL BOX |
| PIV | POST INDICATOR VALVE |
| RPS | REMOTE POWER SUPPLY |
| SAD | SEE ARCHITECTURAL DRAWINGS |
| STC | SIGNAL TERMINAL CABINET |
| TMGB | TELECOMMUNICATIONS MAIN GROUNDING BUS BAR |
| TTB | TELEPHONE TERMINAL BOARD |
| WP | WEATHERPROOF |
| UG | UNDERGROUND |
| U.O.N. | UNLESS OTHERWISE NOTED |
| VIF | VERIFY IN FIELD |
| XFMR | TRANSFORMER |

- A/20/8 FIXTURE TAG – LETTER DENOTES TYPE, NUMBERS INDICATE LAMP QUANTITY AND WATTAGE
- 1/E-1 REFERS TO DETAIL NO. 1 ON DRAWING E-1
- 1 NUMBERED ELECTRICAL NOTE
- AP/1 MECHANICAL TAG – LETTER DENOTES TYPE, NUMBER DENOTES EQUIPMENT NUMBER

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Engineer Of Record:

REGISTERED PROFESSIONAL ENGINEER – JOSE L. MC – No. E 17369 Exp. 9-30-18 – ELECTRICAL – STATE OF CALIFORNIA

LICENSED ARCHITECT – THOMAS A. HIBSER – C-27362 – 1/31/2019 RENEWAL DATE – STATE OF CALIFORNIA


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HY ARCHITECTS JOB NUMBER 4786

Facility

Project

SAN PEDRO ELEMENTARY SCHOOL
498 POINT SAN PEDRO ROAD
SAN RAFAEL, CA 94901

Sheet Title

ELECTRICAL NOTES, SYMBOLS AND DETAILS

Scale: AS NOTED
Drwn By: DM
Chckd By: TLK
Issue Date 8/9/17

Client Ref No.
Permit No.
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GRAPHIC SCALES: 1/16" = 1'-0" | 1/8" = 1'-0" | 1/4" = 1'-0" | 1/2" = 1'-0" | 3/4" = 1'-0" | 1" = 1'-0" | 1-1/2" = 1'-0" | 3" = 1'-0"

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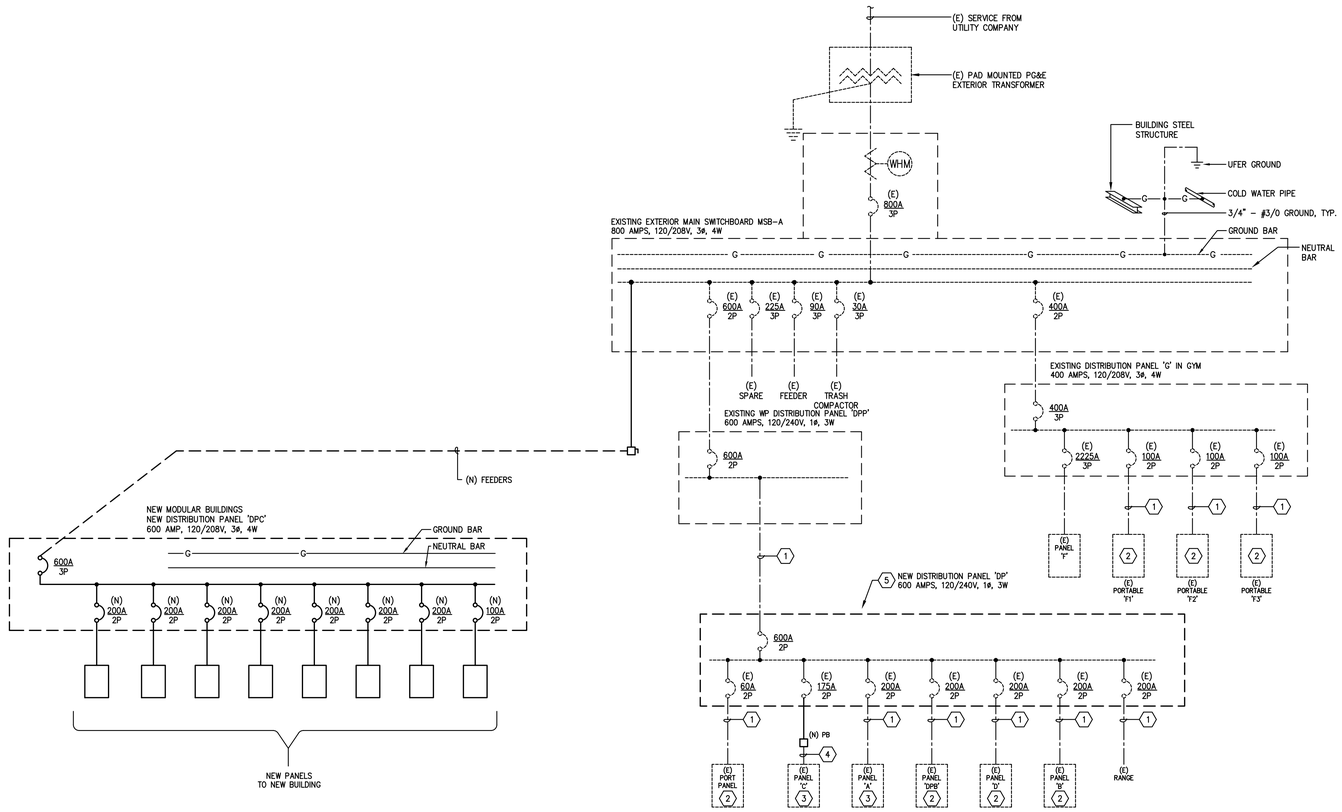


## 1 ELECTRICAL ONE-LINE DIAGRAM - EXISTING SERVICE

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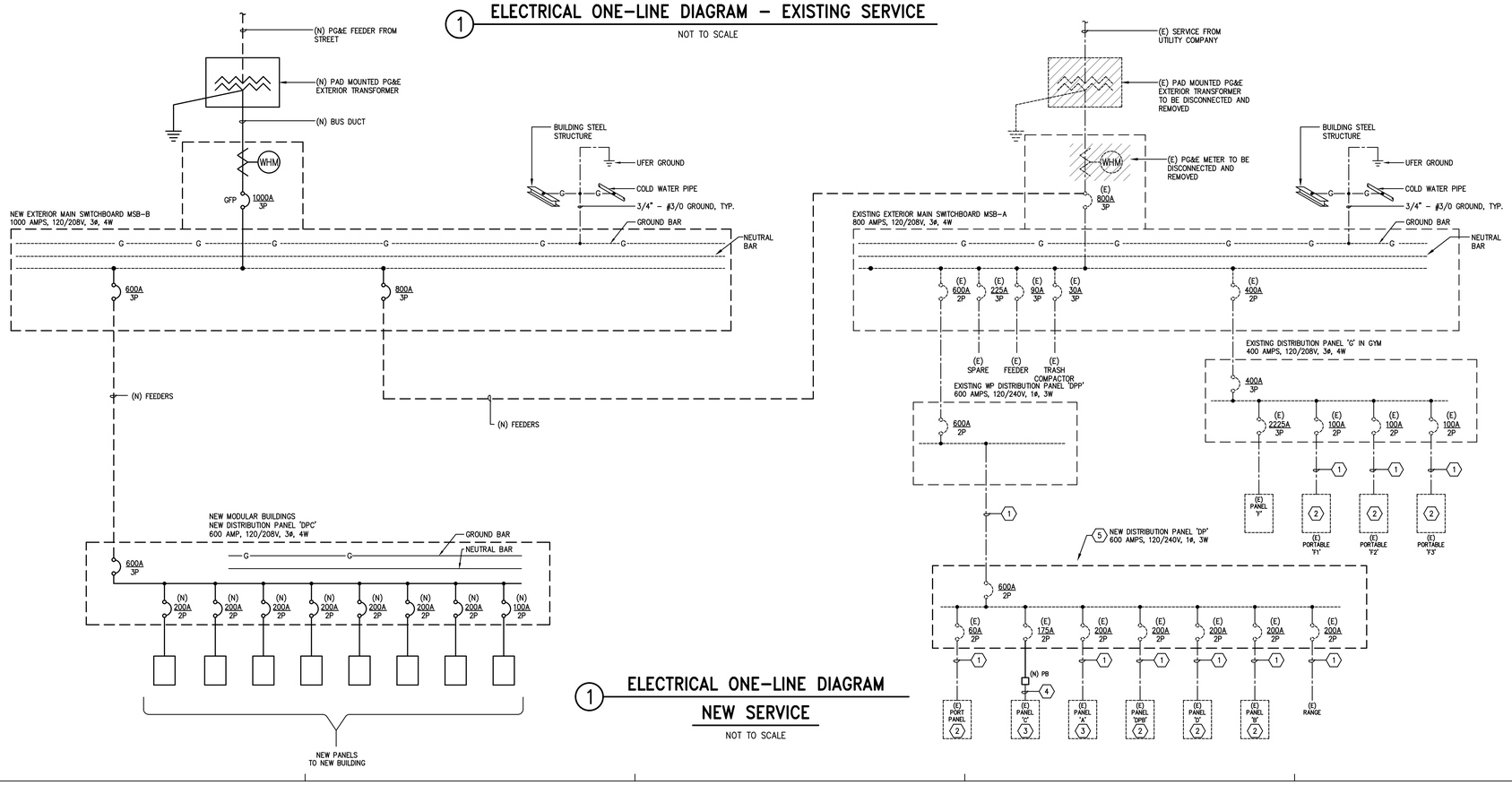


## 1 ELECTRICAL ONE-LINE DIAGRAM
## NEW SERVICE

NOT TO SCALE

## PRICING NOTES

A NEW SERVICE MAY BE REQUIRED BUT CAN NOT BE VERIFIED UNTIL ACCURATE LOADS CAN BE OBTAINED FROM THE MODULAR COMPANY AND THE EXTENT OF THE HVAC WORK HAS BEEN FINALIZED. PROVIDE (2) PRICES AS FOLLOWS:

1. LEAVE EXISTING 800A SERVICE WITH A 600A/3P BUS TAP TO FEED NEW MODULARS.

2. PROVIDE NEW 1200A SERVICE AND BACKFEED EXISTING 800A SWITCHBOARD.

## SHEET NOTES

1. EXISTING FEEDER TO BE DISCONNECTED AND REMOVED.
2. EXISTING PANEL TO BE DISCONNECTED AND REMOVED.
3. EXISTING PANEL TO BE RECONNECTED TO NEW PANEL.
4. EXISTING FEEDER TO BE INTERCEPTED AND RECONNECTED TO NEW PANEL.
5. EXISTING PANEL TO BE REPLACED WITH NEW AT NEW LOCATION.
6. NEW CONDUIT AND CONDUCTORS FOR PANEL RECONNECTION.


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Sheet Title

ELECTRICAL ONE-LINE DIAGRAM AND SCHEDULES

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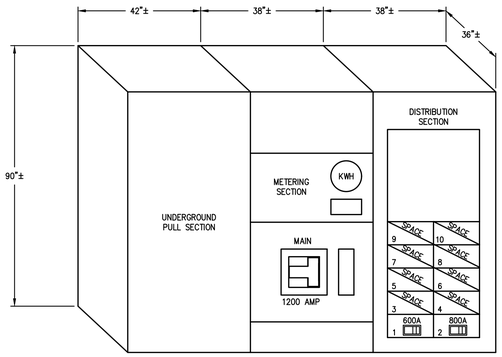


## 1 MAIN SWITCHBOARD ELEVATION

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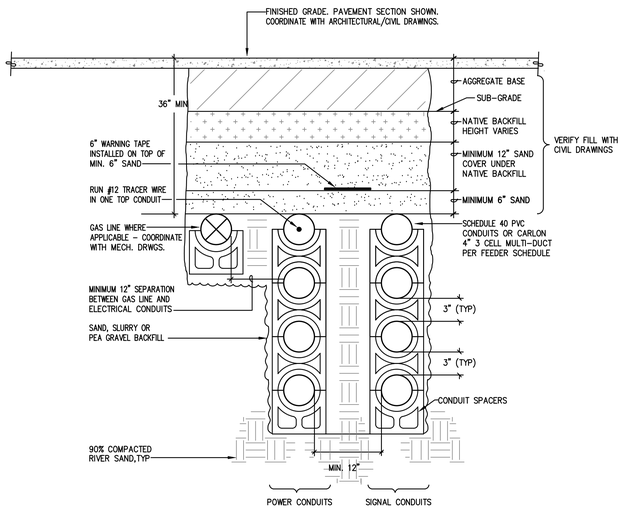
SUBMIT SHOP DRAWINGS TO PG&E FOR APPROVAL PRIOR TO FABRICATION




## 2 MULTIPLE UTILITY DUCTBANK SECTION

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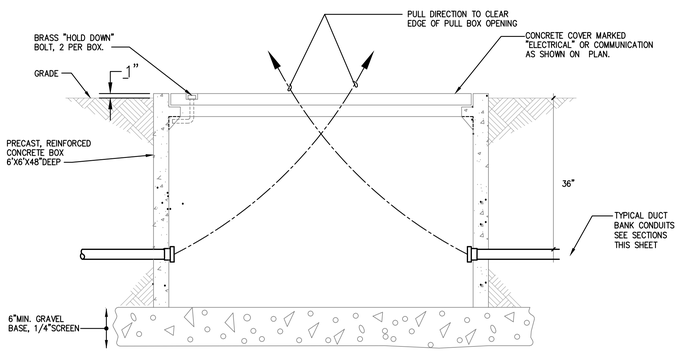


## 3 TYPICAL PULLBOX DETAIL

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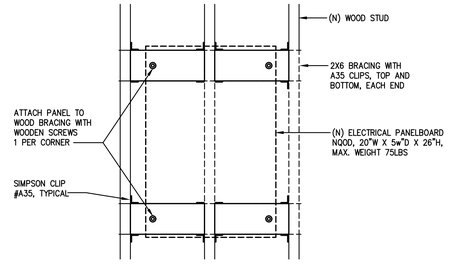


## 4 SURFACE PANELBOARD MOUNTING DETAIL IN WOOD CONSTRUCTION

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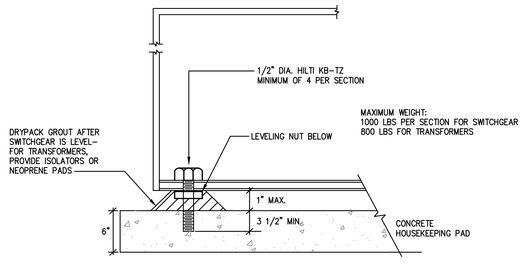


## 5 SWITCHGEAR/TRANSFORMER BOLT DOWN DETAIL

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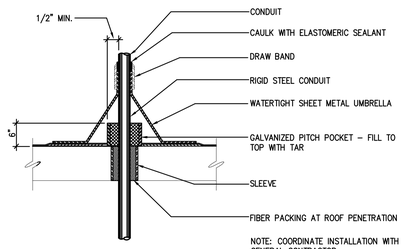


## 6 CONDUIT ROOF PENETRATION

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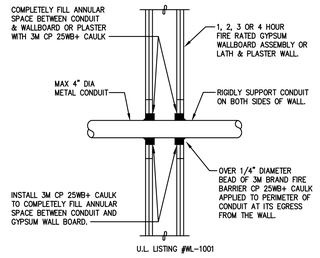
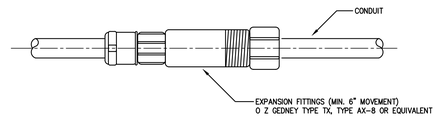
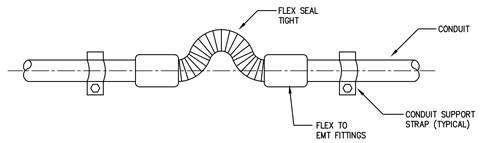



## 7 CONDUIT PENETRATION DETAIL FOR FIRE RATED WALL

NOT TO SCALE




## A FITTINGS FOR CONDUITS ON WALL




## B FLEX JOINT FOR EXPOSED CONDUIT

## 8 CONDUIT EXPANSION FITTING DETAILS

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Sheet Title

ELECTRICAL DETAILS

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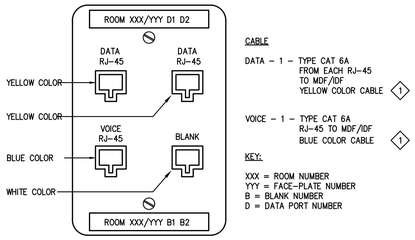



CABLE

DATA – 1 – TYPE CAT 6A FROM EACH RJ-45 TO MDF/IDF YELLOW COLOR CABLE (1)

VOICE – 1 – TYPE CAT 6A RJ-45 TO MDF/IDF BLUE COLOR CABLE (1)

KEY:

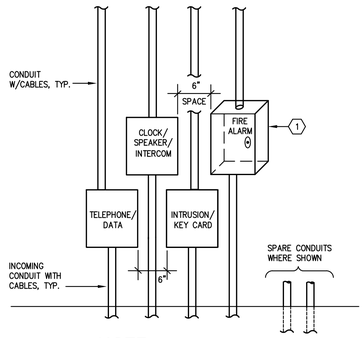
XXX = ROOM NUMBER
YYY = FACE-PLATE NUMBER
B = BLANK NUMBER
D = DATA PORT NUMBER

NOTE:

(1) PROVIDE CABLING IN MINIMUM 1" CONDUIT FROM OUTLET TO IDF AND/OR VIA J-HOOKS WHERE SUSPENDED CEILINGS ARE AVAILABLE.

## 1 TYPICAL ADMIN/TEACHER'S VOICE/DATA OUTLET

NOT TO SCALE

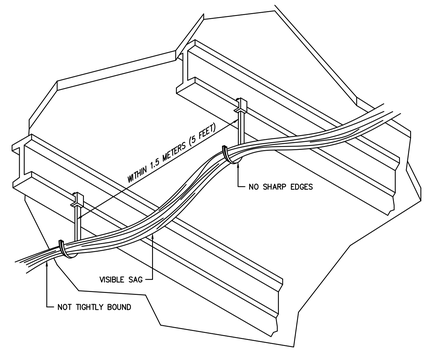



**NOTE:**

(1) 16" X 16" X 6" DEEP CABINET WITH DIVIDERS, PLYWOOD BACKBOARD AND LOCKABLE DOOR, BLINE 16166 RTC, PROVIDE 1" X 3" RED PHENOLIC LABEL AS REQUIRED.

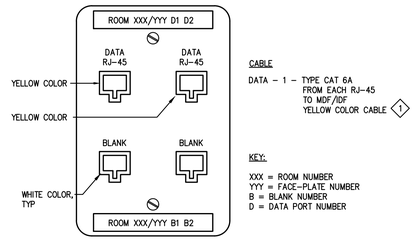
## 4 TYPICAL STC LAYOUT

NOT TO SCALE




## 7 CABLE PATHWAYS

NOT TO SCALE




CABLE

DATA – 1 – TYPE CAT 6A FROM EACH RJ-45 TO MDF/IDF YELLOW COLOR CABLE (1)

KEY:

XXX = ROOM NUMBER
YYY = FACE-PLATE NUMBER
B = BLANK NUMBER
D = DATA PORT NUMBER

NOTE:

(1) PROVIDE CABLING IN MINIMUM 1" CONDUIT FROM OUTLET TO IDF AND/OR VIA J-HOOKS WHERE SUSPENDED CEILINGS ARE AVAILABLE.

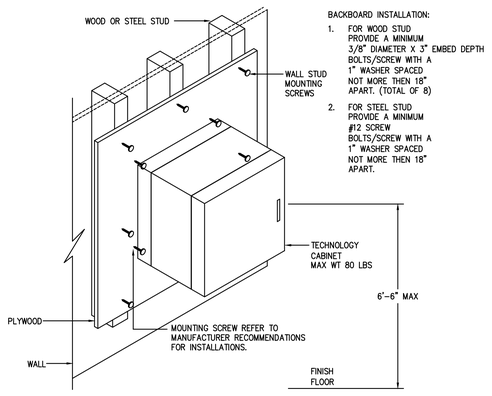
## 2 TYPICAL STUDENT DATA OUTLET

NOT TO SCALE

GENERAL NOTE:

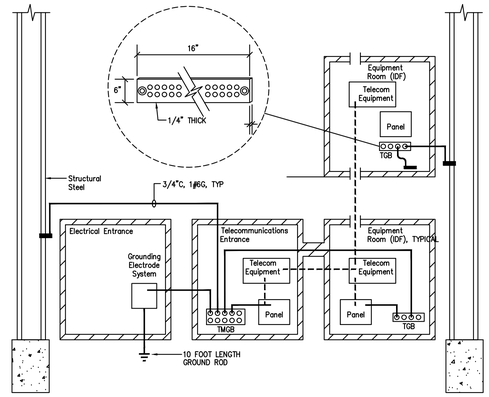
BACKBOARD INSTALLATION:

1. FOR WOOD STUD PROVIDE A MINIMUM 3/8" DIAMETER X 3" EMBED DEPTH BOLTS/SCREW WITH A 1" WASHER SPACED NOT MORE THEN 18" APART. (TOTAL OF 8)
2. FOR STEEL STUD PROVIDE A MINIMUM #12 SCREW BOLTS/SCREW WITH A 1" WASHER SPACED NOT MORE THEN 18" APART.




## 5 CABINET MOUNTING DETAIL

NOT TO SCALE




## 8 BUILDING GROUND DETAIL

NOT TO SCALE

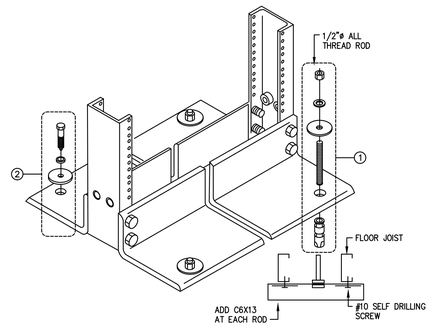
**NOTES:**

(1) CONCRETE FLOOR ANCHORING

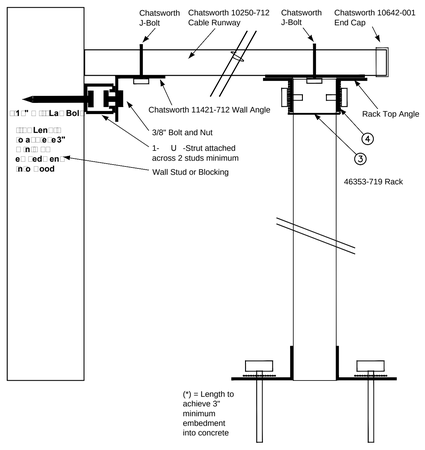
(2) WOOD FLOOR ANCHORING

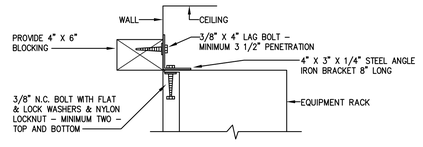
(3) USE CHATSWORTH 12730-712 RACK-TO-RUNWAY MOUNTING PLATE TO ALLOW USE TO TOP RACK RU MOUNTING SPACE

(4) PANDUIT RGW-31-1 PAINT PIERCING WASHER. USE AT ALL RACK ASSEMBLY BOLTS

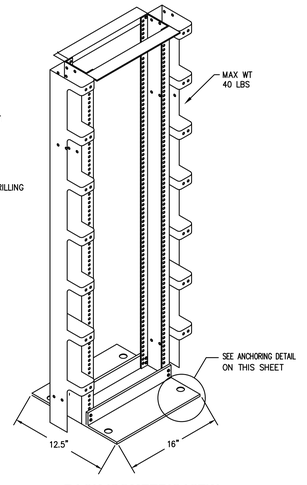



**CONCRETE OR WOOD FLOOR ANCHORING DETAIL**




**RACK WALL ATTACHMENT**




**RACK-ISOMETRIC VIEW**

## 3 TYPICAL WIRELESS DATA OUTLET

NOT TO SCALE

## 6 CABLE RUNWAY/DATA RACK ANCHORING DETAILS

NOT TO SCALE

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SAN PEDRO ELEMENTARY SCHOOL
498 POINT SAN PEDRO ROAD
SAN RAFAEL, CA 94901

Sheet Title

ELECTRICAL DETAILS

Scale: AS NOTED

Drwn By: DM

Chckd By: TLK

Issue Date 8/9/17

Client Ref No.

Permit No.

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**E0.4**

GRAPHIC SCALES: 1/16" = 1'-0" | 1/8" = 1'-0" | 1/4" = 1'-0" | 1/2" = 1'-0" | 3/4" = 1'-0" | 1" = 1'-0" | 1-1/2" = 1'-0" | 3" = 1'-0"

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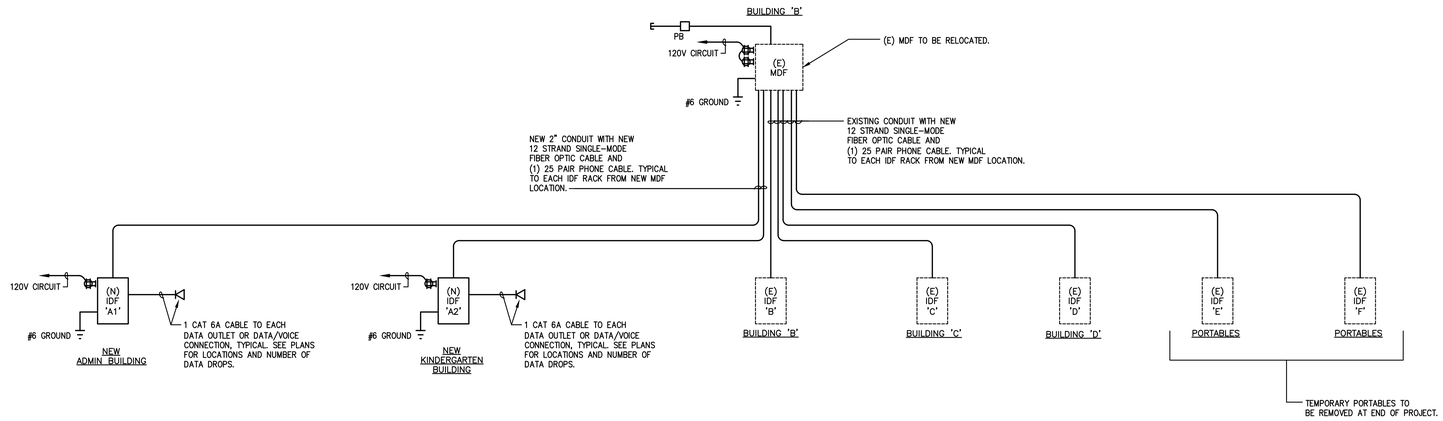
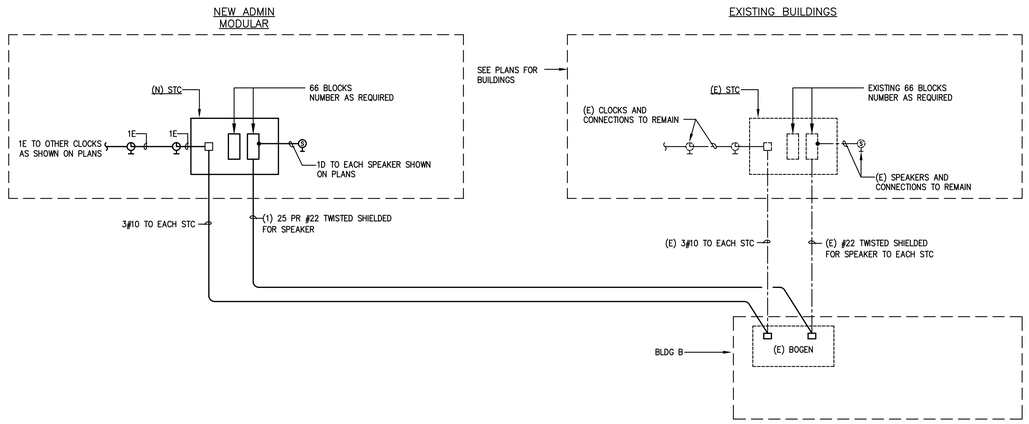


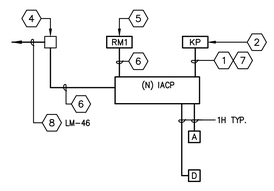

## 1 DATA/TELEPHONE DISTRIBUTION RISER DIAGRAM

NOT TO SCALE




## 2 BOGEN CLOCK/SPEAKER DIAGRAM

NOT TO SCALE

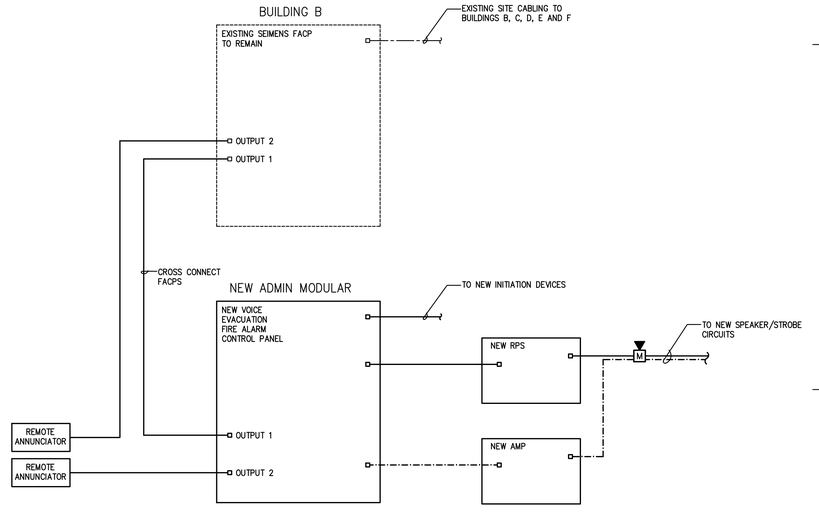



## SHEET NOTES:

1. WEST PENN 244 FROM KEYPAD TO INTRUSION ALARM CONTROL PANEL.
2. NEW KEYPAD. SEE SPECIFICATIONS.
3. DOOR CONTACT OR MOTION SENSOR WITH DELAY ENTRY.
4. 12VOLT, 2.5A AUXILIARY POWER SUPPLY WITH STANDBY BATTERY.
5. NEW RADIO.
6. CONNECT PER MANUFACTURER'S REQUIREMENTS.
7. 2#14 FOR POWER.
8. PROVIDE DEDICATED 120V CIRCUIT.

## 3 INTRUSION ALARM RISER DIAGRAM

NOT TO SCALE




## 4 FIRE ALARM RISER DIAGRAM

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SAN PEDRO ELEMENTARY SCHOOL
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Sheet Title

ELECTRICAL LOW VOLTAGE DIAGRAMS

Scale: AS NOTED
Drwn By: DM
Chckd By: TLK
Issue Date 8/9/17

Client Ref No.
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**E0.**

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GRAPHIC SCALES: 1/16" = 1'-0" | 1/8" = 1'-0" | 1/4" = 1'-0" | 1/2" = 1'-0" | 3/4" = 1'-0" | 1" = 1'-0" | 1-1/2" = 1'-0" | 3" = 1'-0"

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## SHEET NOTES

1. EXISTING PANEL TO REMAIN.
2. EXISTING PANEL TO BE RECONNECTED.
3. EXISTING CONDUITS AND CONDUCTORS TO REMAIN.
4. EXISTING CONDUITS AND CONDUCTORS TO BE REMOVED.
5. EXISTING ROOFTOP CONDUIT AND CONDUCTORS TO BE INTERCEPTED WITH NEW PULLBOX.
6. EXISTING DISTRIBUTION PANEL TO BE REMOVED.
7. EXISTING CONDUIT AND CONDUCTORS TO BE REMOVED AT END OF PROJECT.

## 1 ELECTRICAL DEMOLITION SITE POWER PLAN

SCALE: 1" = 30'-0"

N

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Sheet Title

ELECTRICAL DEMOLITION
SITE POWER PLAN

Scale: AS NOTED
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Issue Date 8/9/17

Client Ref No.
Permit No.
Sheet

**E1.1**

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GRAPHIC SCALES: 0 5' 50' 1/16" = 1'-0" | 0 5' 25' 1/8" = 1'-0" | 0 1' 12' 1/4" = 1'-0" | 0 1' 6' 1/2" = 1'-0" | 0 4' 3/4" = 1'-0" | 0 1' 3' 1" = 1'-0" | 0 2' 1-1/2" = 1'-0" | 0 1' 3" = 1'-0"

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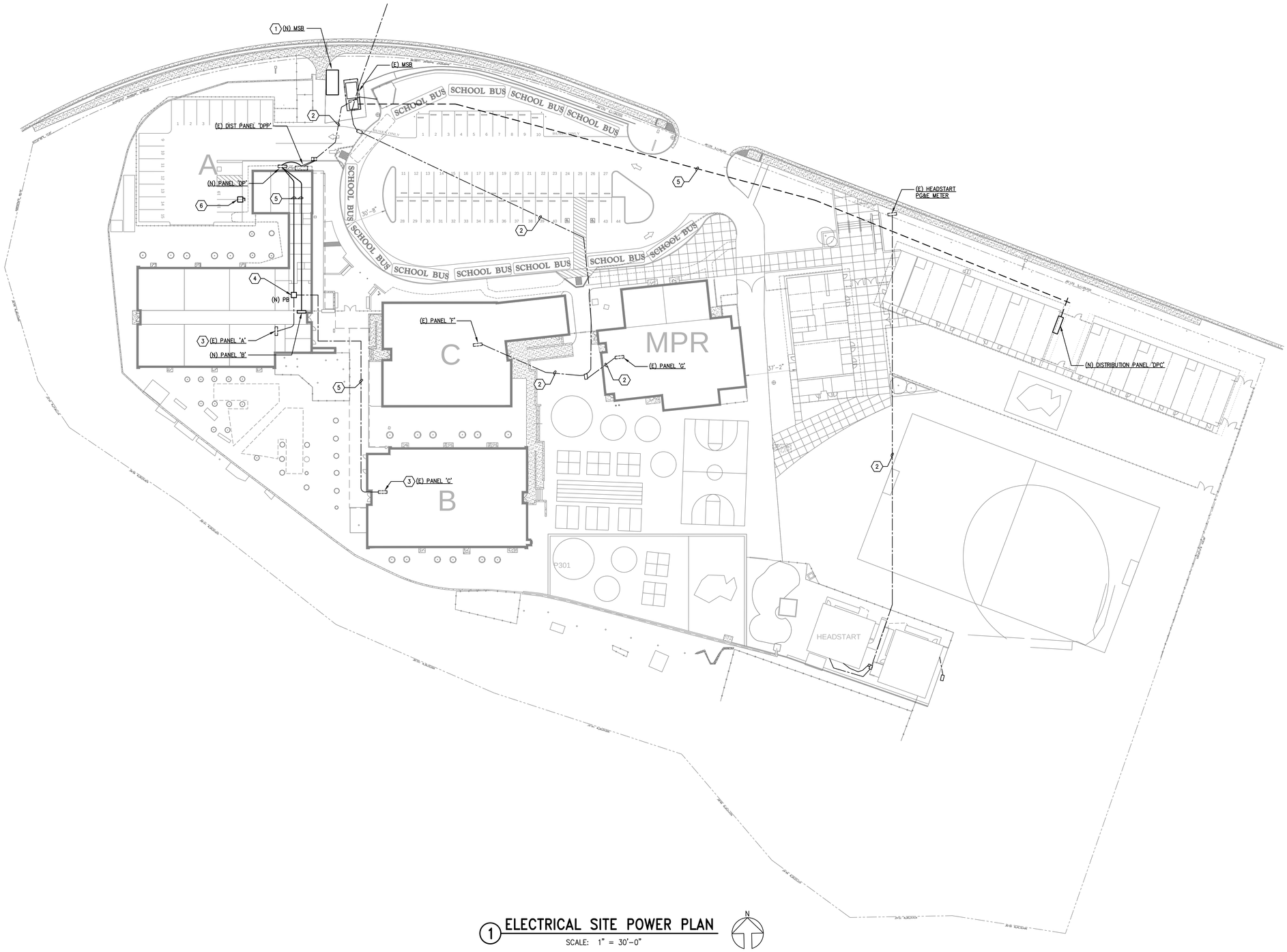
## SHEET NOTES

1. NEW MSB AND PG&E TRANSFORMER, IF REQUIRED.
2. EXISTING FEEDERS TO REMAIN.
3. EXISTING PANEL TO BE RECONNECTED.
4. NEW PULLBOX ON ROOF.
5. NEW CONDUIT AND CONDUCTORS TO NEW DISTRIBUTION PANEL.
6. PROVIDE POWER FOR (2) CHARGING STATIONS.




## 1 ELECTRICAL SITE POWER PLAN

SCALE: 1" = 30'-0"

N

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Sheet Title

ELECTRICAL SITE POWER PLAN

Scale: AS NOTED
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Issue Date 8/9/17

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**E1.2**

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GRAPHIC SCALES: 1/16" = 1'-0" | 1/8" = 1'-0" | 1/4" = 1'-0" | 1/2" = 1'-0" | 3/4" = 1'-0" | 1" = 1'-0" | 1-1/2" = 1'-0" | 3" = 1'-0"

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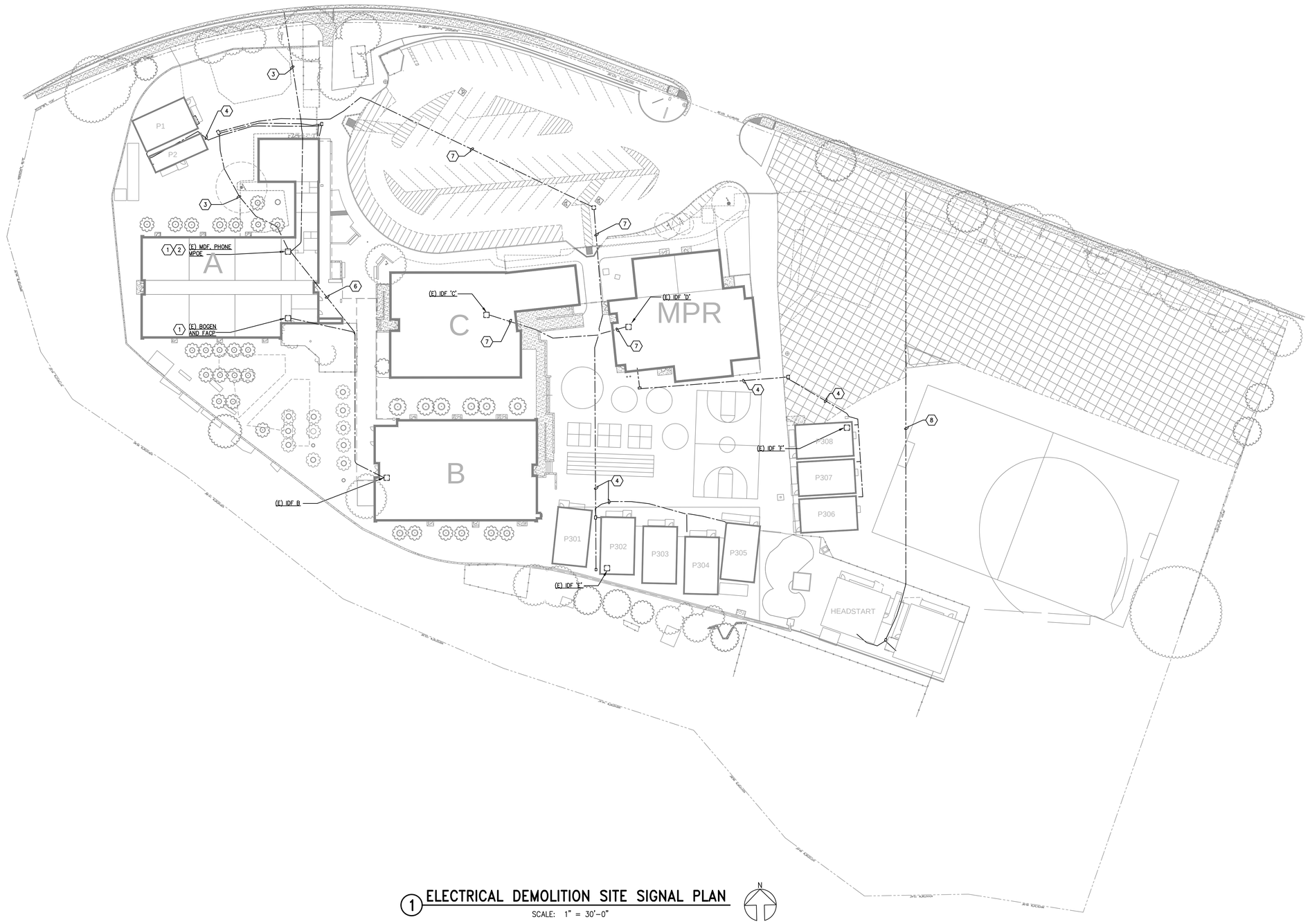
## SHEET NOTES

1. EXISTING EQUIPMENT TO BE RELOCATED.
2. EXISTING AT&T AND COMCAST MPOE TO BE RELOCATED.
3. EXISTING AT&T AND COMCAST FEEDERS TO BE INTERCEPTED AND EXTENDED.
4. EXISTING LOW VOLTAGE DUCTBANK TO BE REMOVED AT END OF PROJECT. PULL IN NEW FIBER OPTIC CABLE TO IDF..
5. EXISTING LOW VOLTAGE DUCTBANK TO BE INTERCEPTED.
6. EXISTING ROOFTOP LOW VOLTAGE CONDUITS TO BE INTERCEPTED WITH NEW PULLCANS ON ROOF.
7. EXISTING LOW VOLTAGE DUCTBANK TO REMAIN. PULL IN NEW FIBER OPTIC CABLE TO NEW MDF.
8. EXISTING AT&T SERVICE TO HEAD START TO REMAIN.




## 1 ELECTRICAL DEMOLITION SITE SIGNAL PLAN

SCALE: 1" = 30'-0"

N

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Sheet Title

ELECTRICAL DEMOLITION
SITE SIGNAL PLAN

Scale: AS NOTED
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Chckd By: TLK
Issue Date 8/9/17

Client Ref No.
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**E1.3**

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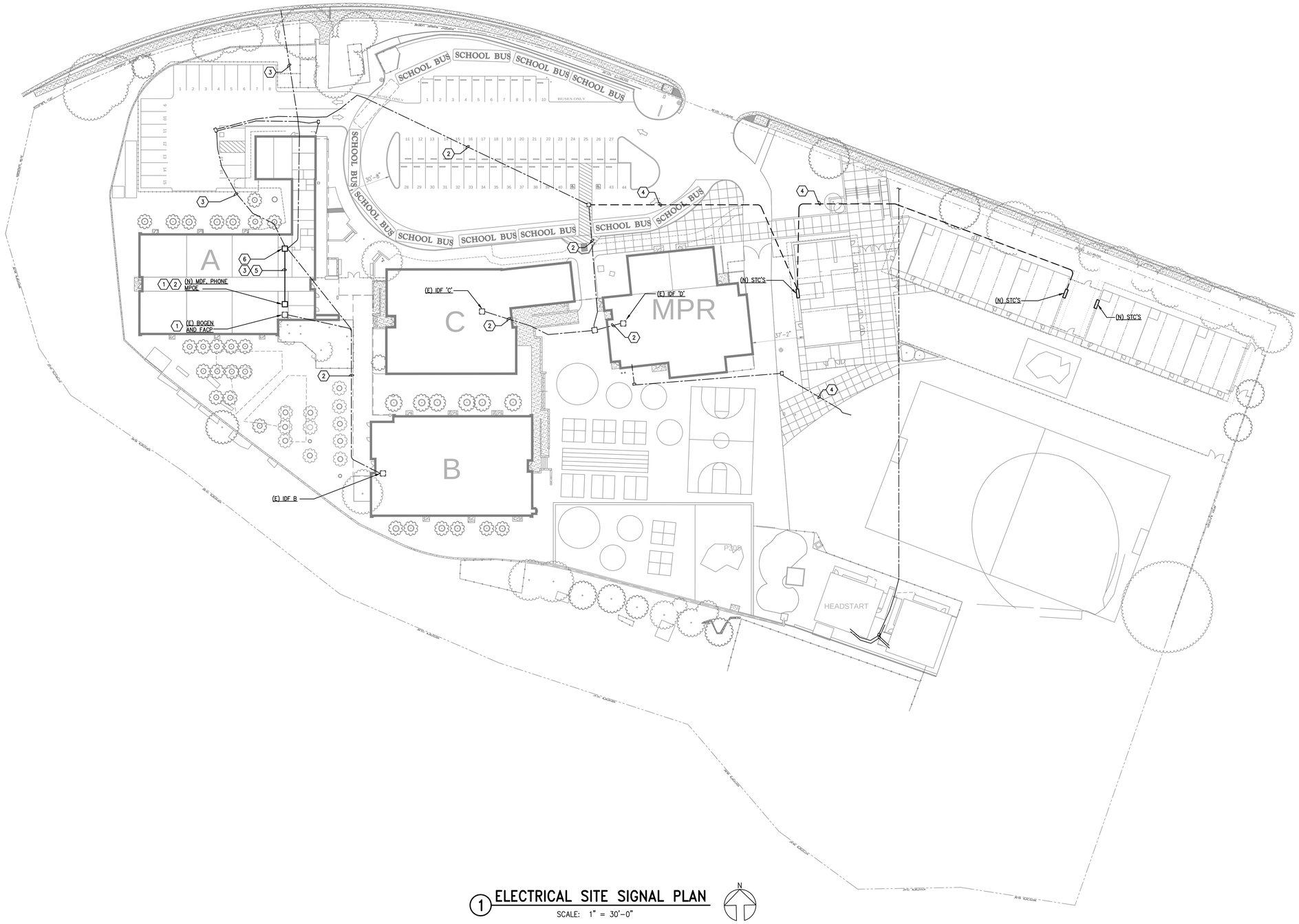
## SHEET NOTES

1. NEW LOCATION FOR MDF, AND MPOE.
2. EXISTING LOW VOLTAGE DUCTBANK TO REMAIN. PULL IN NEW CABLES FOR DATA, CLOCK/PAGING, INTRUSION ALARM AND FIRE ALARM CONNECTIONS.
3. NEW DUCTBANK WITH (2) 3" AND (5) 2" CONDUITS FOR LOW VOLTAGE CABLING.
4. NEW (5) 2" CONDUITS FOR LOW VOLTAGE SYSTEM CABLING TO NEW BUILDINGS.
5. NEW (2) 4" CONDUITS FOR AT&T AND COMCAST SERVICES.
6. PROVIDE NEW PULLCANS ON ROOF TO INTERCEPT EXISTING LOW VOLTAGE CONDUITS.




1 ELECTRICAL SITE SIGNAL PLAN
SCALE: 1" = 30'-0"

N

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Sheet Title

ELECTRICAL SITE SIGNAL PLAN

Scale: AS NOTED
Drwn By: DM
Chckd By: TLK
Issue Date 8/9/17

Client Ref No.
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**E1.4**

GRAPHIC SCALES: 1/16" = 1'-0" | 1/8" = 1'-0" | 1/4" = 1'-0" | 1/2" = 1'-0" | 3/4" = 1'-0" | 1" = 1'-0" | 1-1/2" = 1'-0" | 3" = 1'-0"

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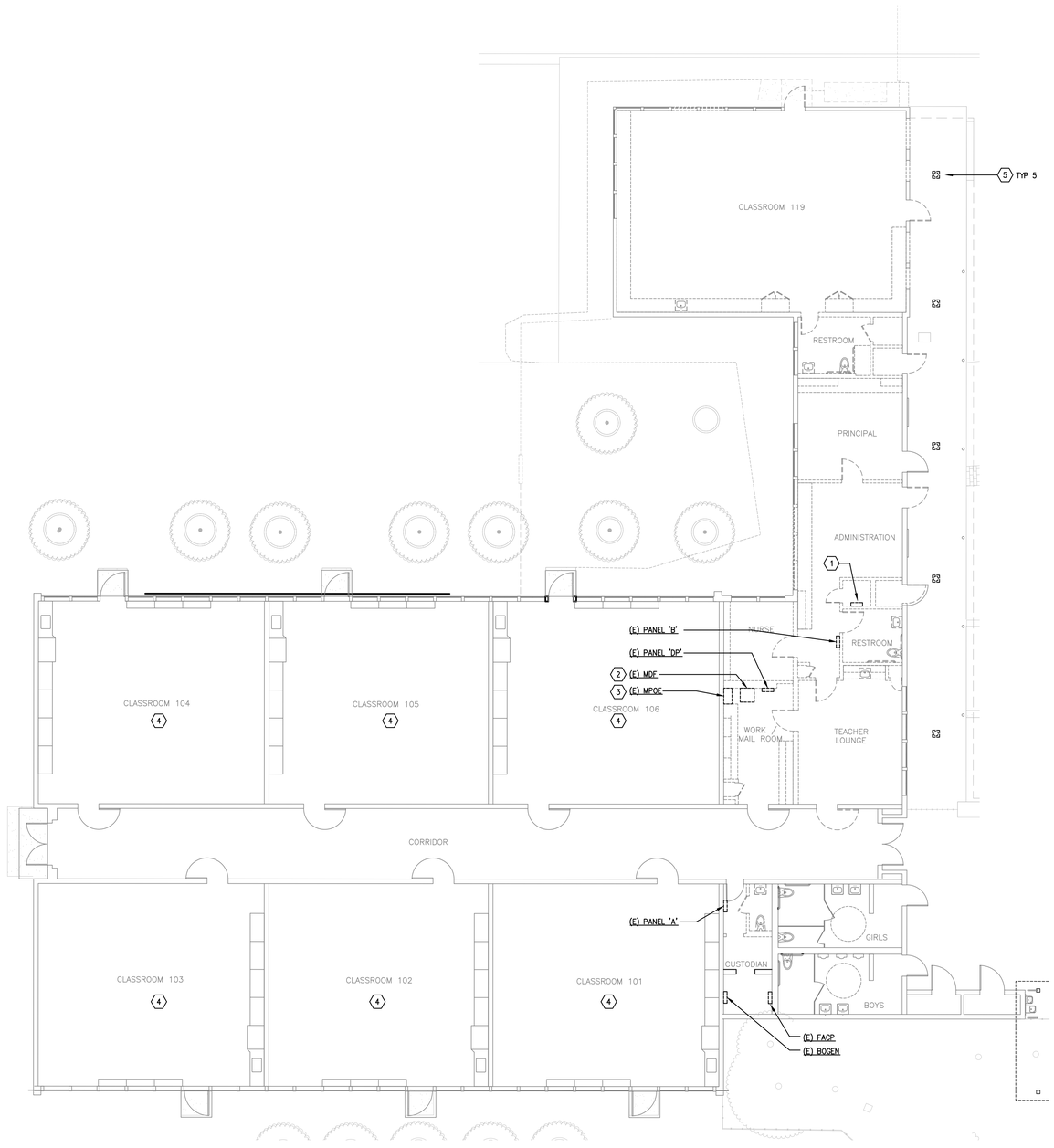
## SHEET NOTES

1. EXISTING CIRCUIT TO TUNNEL LIGHTING UNDER ROAD TO BE RECONNECTED.
2. EXISTING MDF TO BE RELOCATED.
3. EXISTING AT&T AND COMCAST MPOE TO BE RELOCATED.
4. PROVIDE ADD ALTERNATE PRICING AS FOLLOWS:
   –NEW FURNACE CONNECTIONS.
   –NEW CONDENSING UNIT CONNECTIONS.
   –REPLACE EXISTING RECESSED LIGHTING WITH NEW LED LIGHTING AND CONTROLS.
5. REPLACE EXISTING CANOPY LIGHT WITH NEW.




1 ELECTRICAL DEMOLTION PLAN – BLDG A
SCALE: 1/8" = 1'–0"

N

SAN RAFAEL CITY SCHOOLS
310 NOVA ALBION WAY, SAN RAFAEL, CALIFORNIA 94903
TEL: 415.492.3200

Revisions

| No. | Revisions | By | Date | Appr. |
|---|---|---|---|---|

**DSA APPROVAL**

IDENTIFICATION STAMP
DIVISION OF STATE ARCHITECT

APPL.

AC FLS SS

DATE


WHM INCORPORATED
Engineering Consultants
1605 School Street
Moraga, CA 94556
Tel (925)376-2902 * Fax (925)376-2904
cad@whminc.com


17–004

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Engineer Of Record:

REGISTERED PROFESSIONAL ENGINEER — JOSE L. NG — No. E 17369 Exp. 9-30-18 — ELECTRICAL — STATE OF CALIFORNIA

LICENSED ARCHITECT — MARCUS A. HIBSER — C-27362 — 1/31/2019 RENEWAL DATE — STATE OF CALIFORNIA


HIBSER YAMAUCHI Architects, Inc.
300 – 27th Street
Oakland, CA 94612
510.446.2222 tel | 510.446.2211 fax


HY ARCHITECTS JOB NUMBER 4786

Facility

Project

SAN PEDRO ELEMENTARY SCHOOL
498 POINT SAN PEDRO ROAD
SAN RAFAEL, CA 94901

Sheet Title

ELECTRICAL DEMOLITION PLAN - BUILDING A

Scale: AS NOTED
Drwn By: DM
Chckd By: TLK
Issue Date 8/9/17

Client Ref No.
Permit No.
Sheet

**E2.0**

08/08/17 3:28:11 PM F:\2017\17-004 SAN PEDRO ES MODERNIZATION\17004 E20.DWG

0 5' 50'
GRAPHIC SCALES: 1/16" = 1'-0"

0 5' 25'
1/8" = 1'-0"

0 1' 12'
1/4" = 1'-0"

0 1' 6'
1/2" = 1'-0"

0 4'
3/4" = 1'-0"

0 1' 3'
1" = 1'-0"

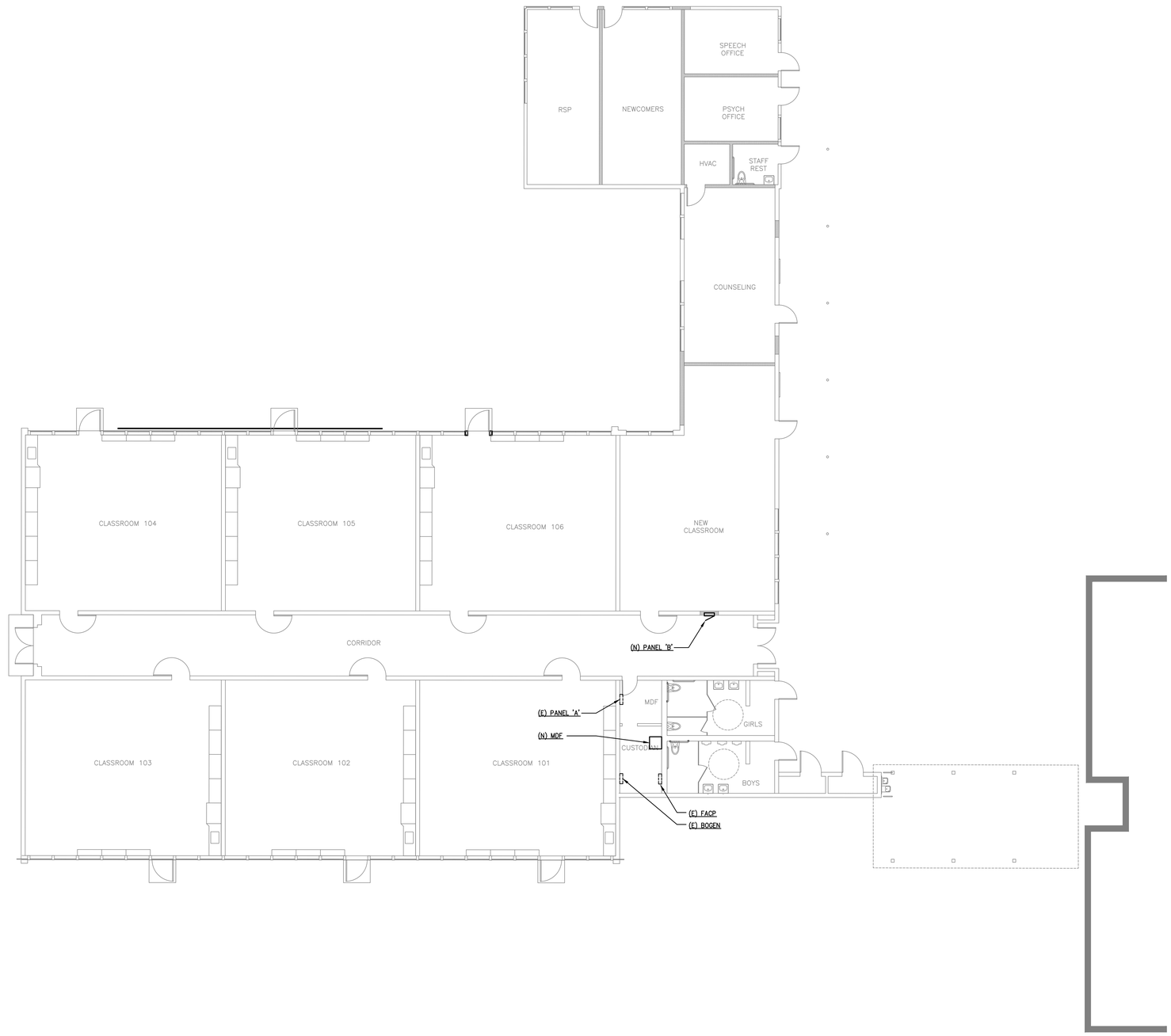
0 2'
1-1/2" = 1'-0"

0 1'
3" = 1'-0"

IF THIS SHEET IS NOT 30"x42" , IT IS
A REDUCED PRINT - SCALE ACCORDINGLY

## SHEET NOTES

1. PROVIDE POWER SITE CONNECTIONS.




1 ELECTRICAL PLAN – BLDG A
SCALE: 1/8" = 1'-0"

N

08/08/17 3:29:15 PM F:\2017\17-004 SAN PEDRO ES MODERNIZATION\17004 E2.1.DWG

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Revisions

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LICENSED ARCHITECT – TIMOTHY A. HIBSER – C-27362 – 1/31/2019 RENEWAL DATE – STATE OF CALIFORNIA


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HY ARCHITECTS JOB NUMBER 4786

Facility

Project

SAN PEDRO ELEMENTARY SCHOOL
498 POINT SAN PEDRO ROAD
SAN RAFAEL, CA 94901

Sheet Title

ELECTRICAL PLAN - BUILDING A

Scale: AS NOTED
Drwn By: DM
Chckd By: TLK
Issue Date 8/9/17

Client Ref No.
Permit No.
Sheet

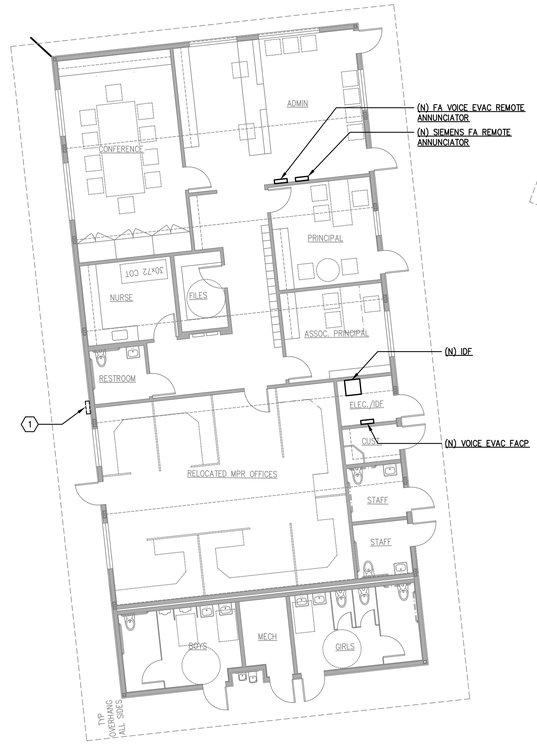
**E2.1**

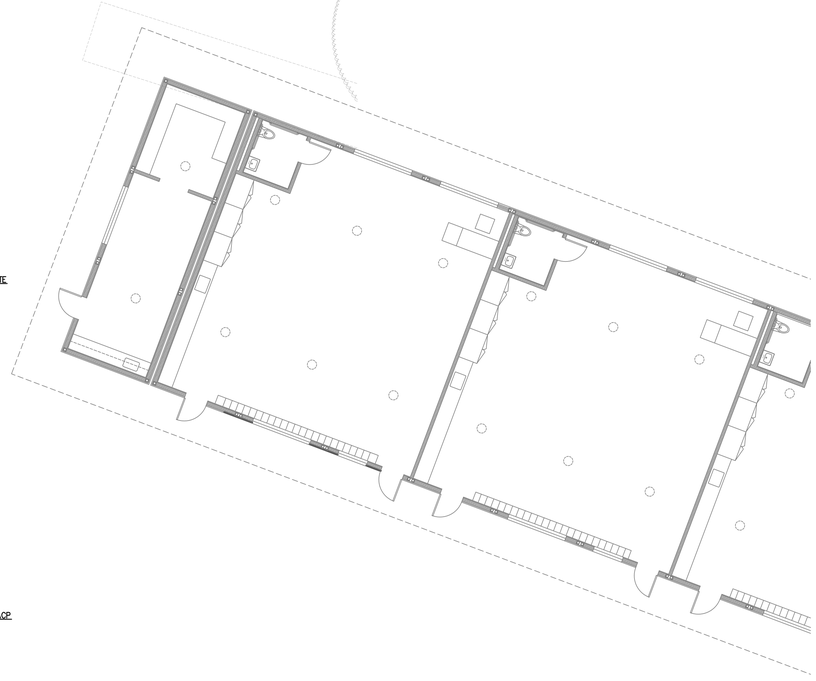
GRAPHIC SCALES: 1/16" = 1'-0" | 1/8" = 1'-0" | 1/4" = 1'-0" | 1/2" = 1'-0" | 3/4" = 1'-0" | 1" = 1'-0" | 1-1/2" = 1'-0" | 3" = 1'-0"

IF THIS SHEET IS NOT 30"x42" , IT IS
A REDUCED PRINT - SCALE ACCORDINGLY

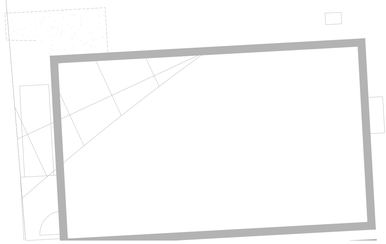
## SHEET NOTES

1. MODULAR BUILDING PANEL.







## 1 ELECTRICAL PLAN – ADMIN BLDG

SCALE: 1/8" = 1'-0"

N

SAN RAFAEL CITY SCHOOLS

310 NOVA ALBION WAY, SAN RAFAEL, CALIFORNIA 94903
TEL: 415.492.3200

Revisions

| No. | Revisions | By | Date | Appr. |
|---|---|---|---|---|
| | | | | |

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DIVISION OF STATE ARCHITECT

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DATE


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Engineering Consultants
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Moraga, CA 94556
Tel (925)376-2902 * Fax (925)376-2904
cad@whminc.com
17-004


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Engineer Of Record:

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LICENSED ARCHITECT — MARCUS A. HIBSER — C-27362 — 1/31/2019 RENEWAL DATE — STATE OF CALIFORNIA


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HY ARCHITECTS JOB NUMBER 4786

Facility

Project

SAN PEDRO ELEMENTARY SCHOOL
498 POINT SAN PEDRO ROAD
SAN RAFAEL, CA 94901

Sheet Title

ELECTRICAL PLAN - ADMIN BUILDING

Scale: AS NOTED
Drwn By: DM
Chckd By: TLK
Issue Date 8/9/17

Client Ref No.
Permit No.
Sheet

**E2.2**

08/08/17 3:29:21 PM F:\2017\17-004 SAN PEDRO ES MODERNIZATION\17004 E22.DWG

GRAPHIC SCALES: 1/16" = 1'-0" | 1/8" = 1'-0" | 1/4" = 1'-0" | 1/2" = 1'-0" | 3/4" = 1'-0" | 1" = 1'-0" | 1-1/2" = 1'-0" | 3" = 1'-0"

IF THIS SHEET IS NOT 30"x42" , IT IS
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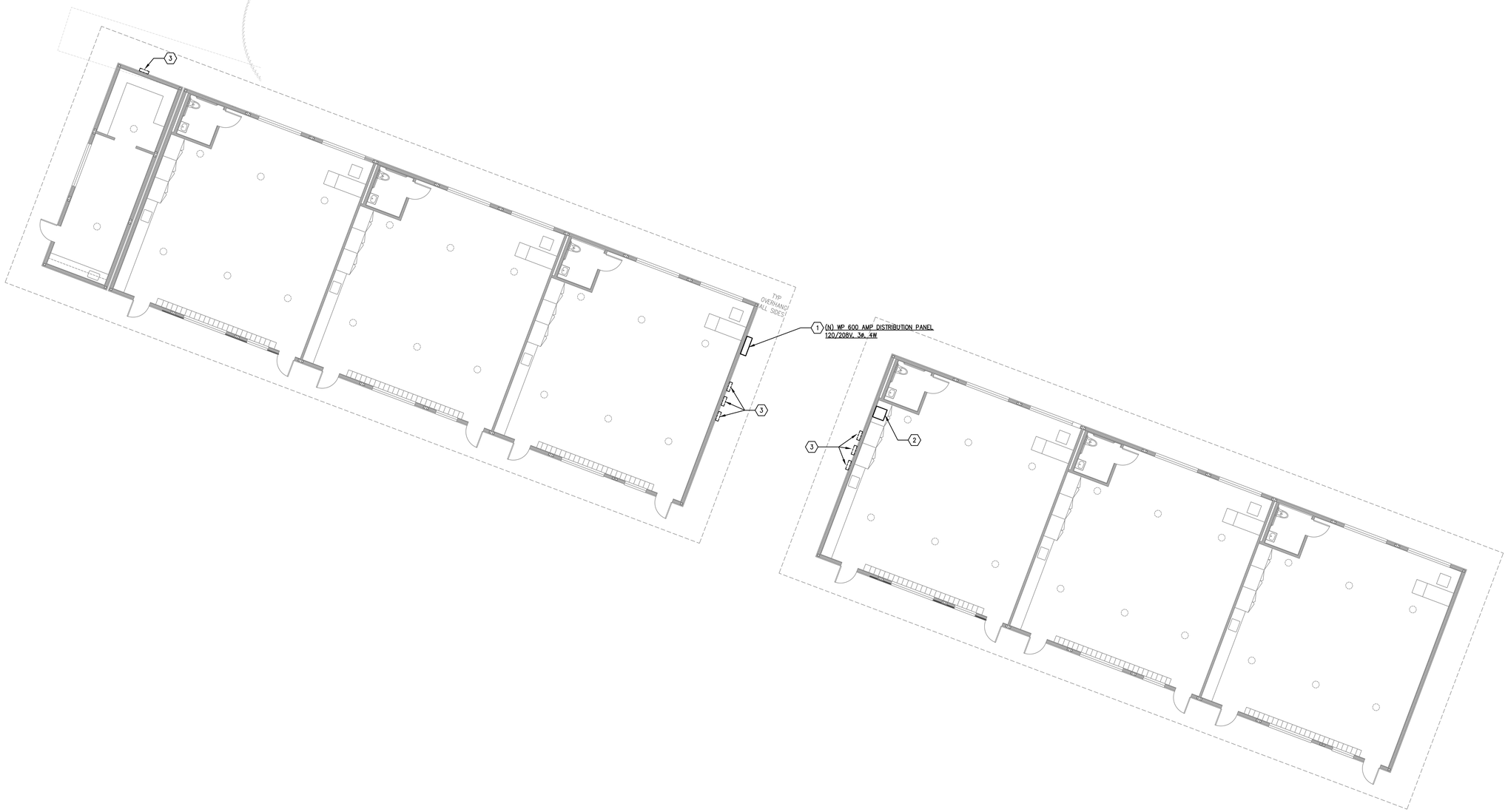
## SHEET NOTES

1. PROVIDE POWER SITE CONNECTIONS TO MODULAR PANELS.
2. NEW IDF TO FEED KINDERGARTEN CLASSROOM.
3. MODULAR BUILDING PANEL.




1 ELECTRICAL PLAN – MODULAR BUILDINGS
SCALE: 1/8" = 1'-0"

N

08/08/17 3:29:26 PM F:\2017\17-004 SAN PEDRO ES MODERNIZATION\17004 E23.DWG

SAN RAFAEL CITY SCHOOLS
310 NOVA ALBION WAY, SAN RAFAEL, CALIFORNIA 94903
TEL: 415.492.3200

Revisions

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|---|---|---|---|---|
| | | | | |

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WHM INCORPORATED
Engineering Consultants
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Moraga, CA 94556
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coc@whminc.com
17-004


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LICENSED ARCHITECT — MARCOS A. HIBSER — C-27362 — 1/31/2019 RENEWAL DATE — STATE OF CALIFORNIA


HIBSER YAMAUCHI Architects, Inc.
300 – 27th Street
Oakland, CA 94612
510.446.2222 tel ; 510.446.2211 fax


HY ARCHITECTS JOB NUMBER 4786

Facility

Project

SAN PEDRO ELEMENTARY SCHOOL
498 POINT SAN PEDRO ROAD
SAN RAFAEL, CA 94901

Sheet Title

ELECTRICAL PLAN - MODULAR BUILDINGS

Scale: AS NOTED
Drwn By: DM
Chckd By: TLK
Issue Date 8/9/17

Client Ref No.
Permit No.
Sheet

**E2.3**

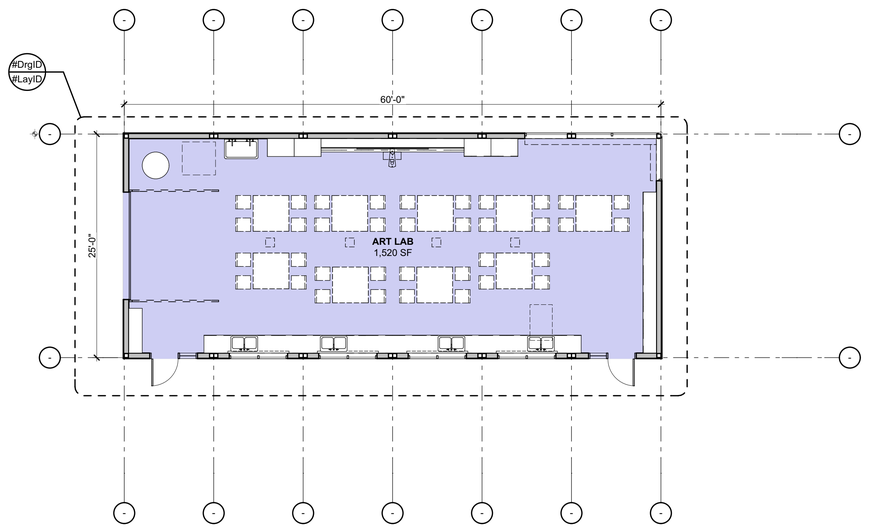
QUATTROCCHI KWOK
ARCHITECTS

# CAMPUS SITE PLAN

0 10' 20' 40'

> DAVIDSON MIDDLE SCHOOL - SCIENCE AND ART BUILDING | APRIL 05, 2017 | SCHEMATIC DESIGN | 1630.00

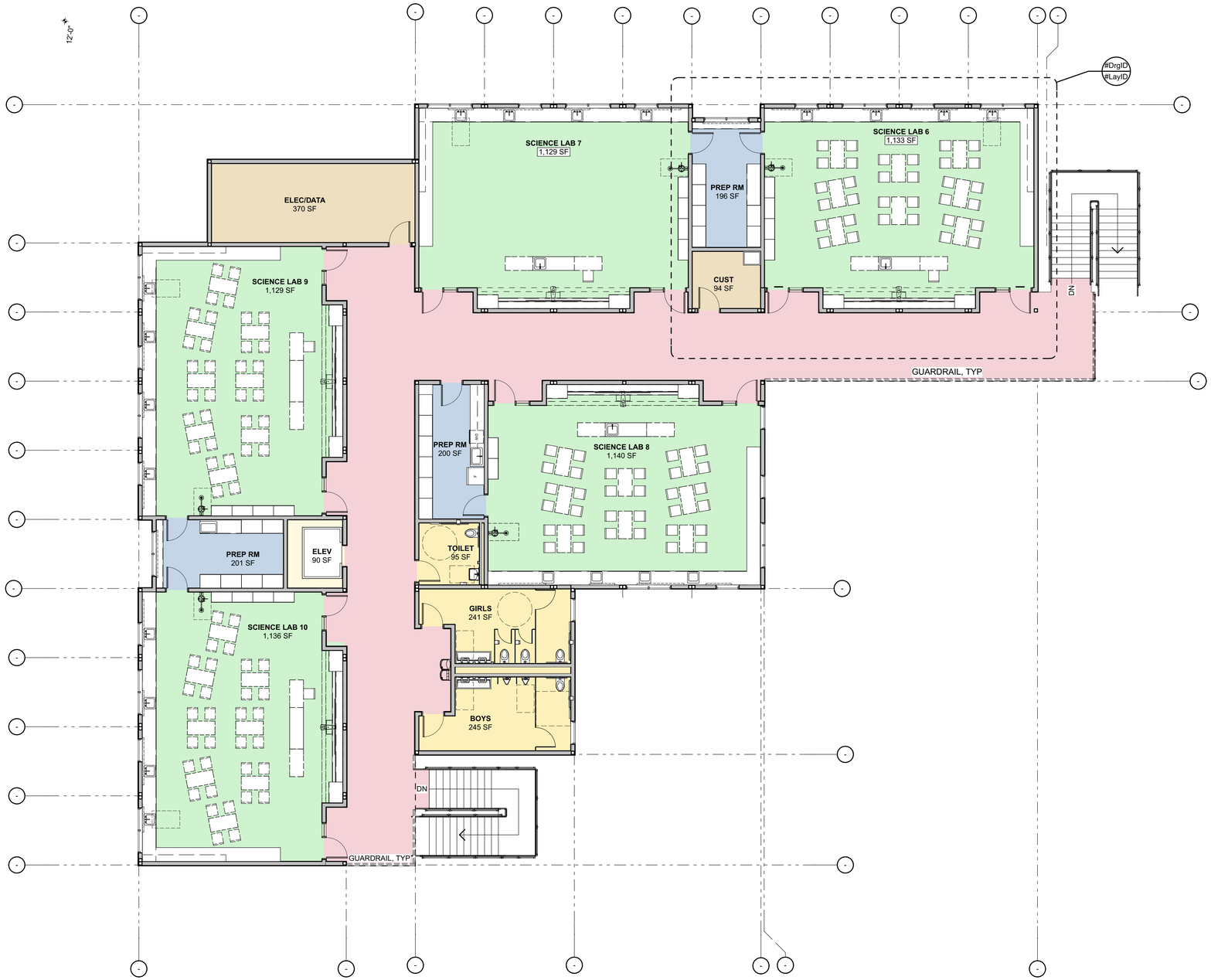
QUATTROCCHI KWOK
ARCHITECTS




# FIRST FLOOR PLAN : SCIENCE AND ART CLASSROOM

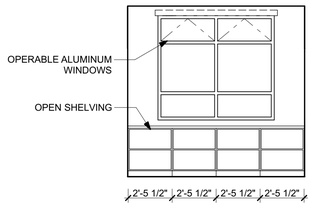
> DAVIDSON MIDDLE SCHOOL - SCIENCE AND ART BUILDING | APRIL 05, 2017 | SCHEMATIC DESIGN | 1630.00

QUATTROCCHI KWOK
ARCHITECTS

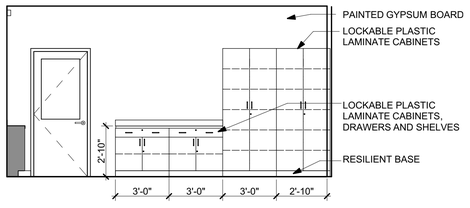



# SECOND FLOOR PLAN : SCIENCE CLASSROOM

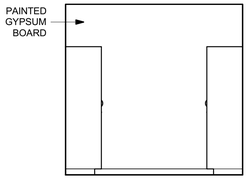
> DAVIDSON MIDDLE SCHOOL - SCIENCE AND ART BUILDING | APRIL 05, 2017 | SCHEMATIC DESIGN | 1630.00



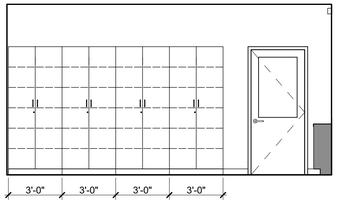

WEST




NORTH

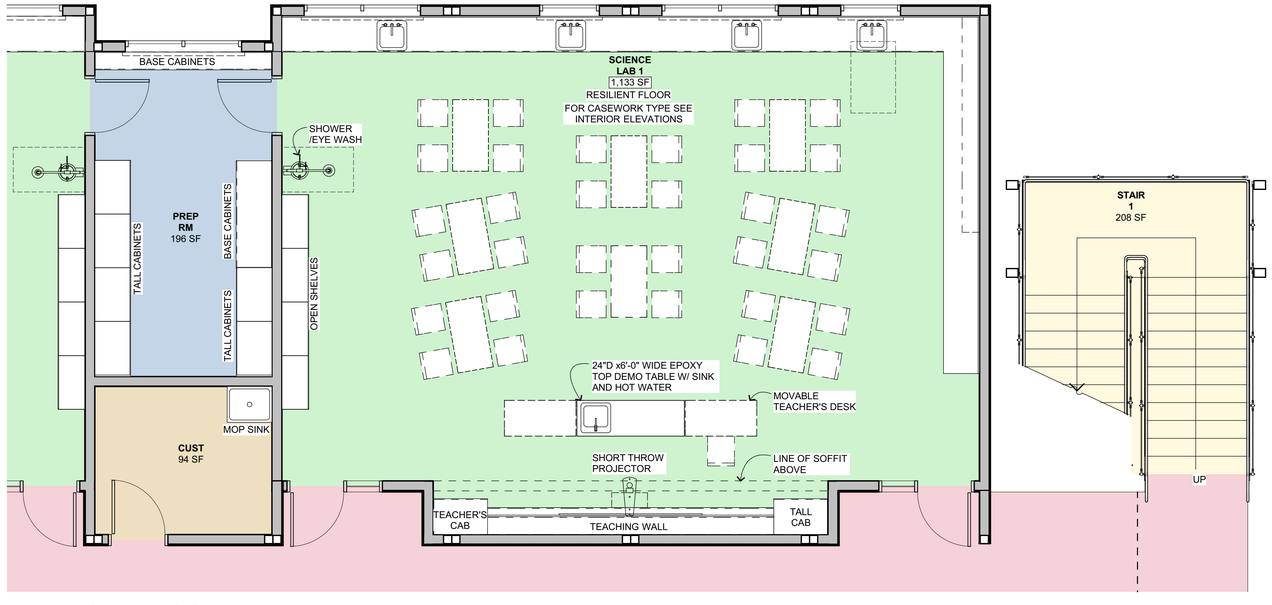



EAST




SOUTH

## PREP ROOM
## TYPICAL INTERIOR ELEVATIONS



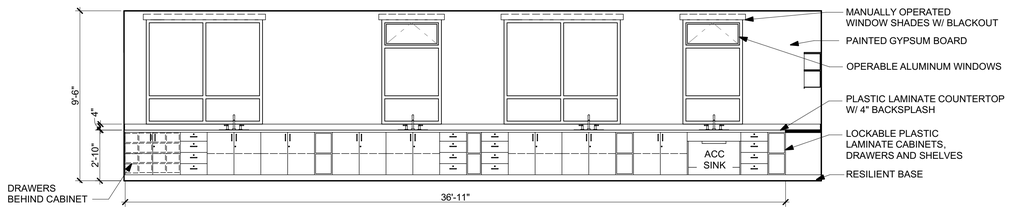

## ENLARGED FLOOR PLAN

SCALE: 1/4" = 1'-0"

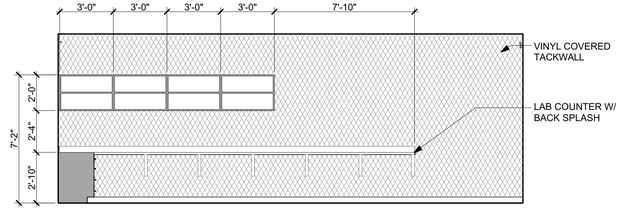
QUATTROCCHI KWOK ARCHITECTS

### GENERAL NOTES:

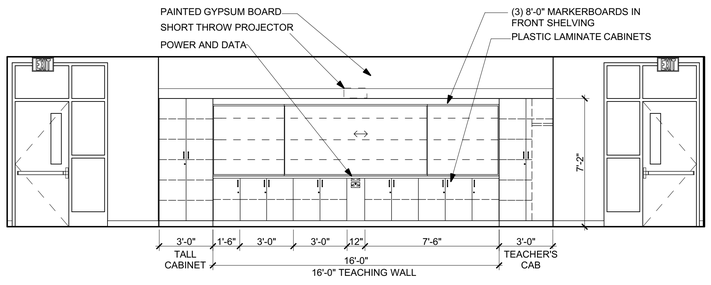
1. PROVIDE ELECTRICAL OUTLET AROUND ALL WALLS.
2. ALL LOCKABLE CABINETS WITH KEYS.
3. PROVIDE 4 FLEX ELEC OUTLET AT EACH END OF DEMONSTRATION TABLE



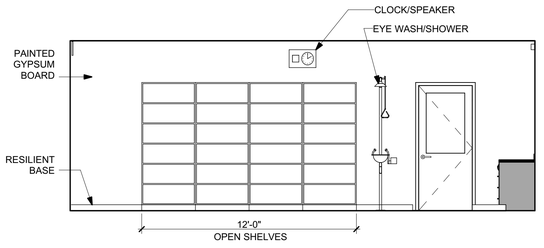

WEST




NORTH




EAST



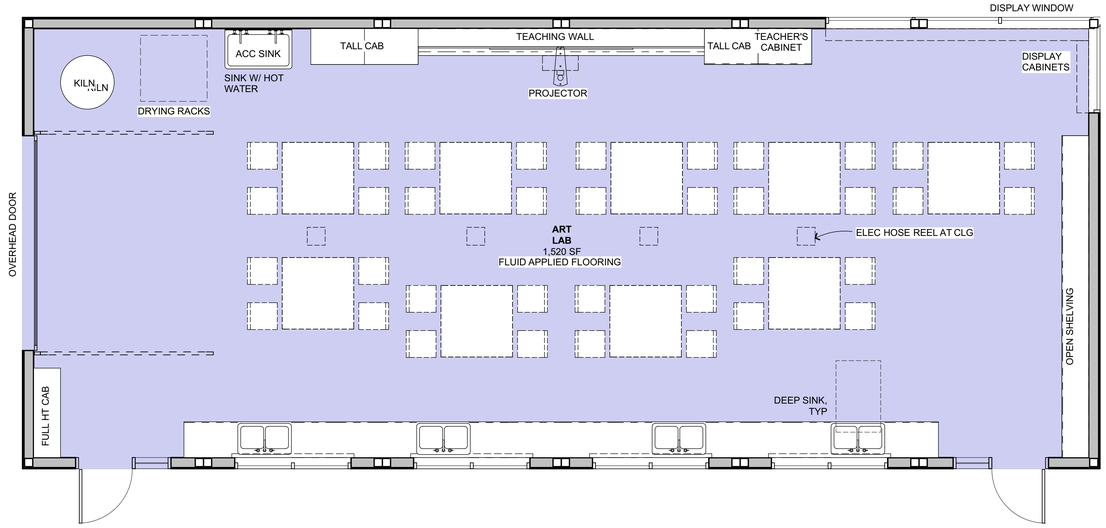

SOUTH

## TYPICAL INTERIOR ELEVATIONS

# TYPICAL SCIENCE LAB CLASSROOM

> DAVIDSON MIDDLE SCHOOL - SCIENCE AND ART BUILDING | APRIL 05, 2017 | SCHEMATIC DESIGN | 1630.00

QUATTROCCHI KWOK
ARCHITECTS

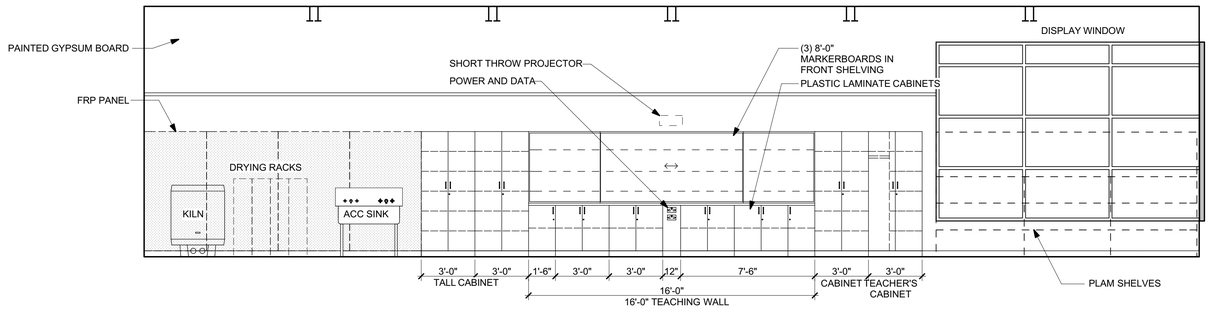



## ENLARGED FLOOR PLAN

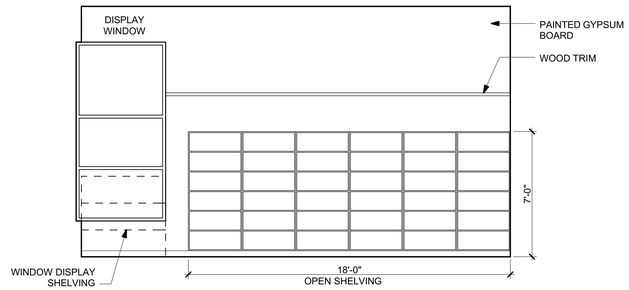
SCALE: 1/4" = 1'-0"

**GENERAL NOTES:**

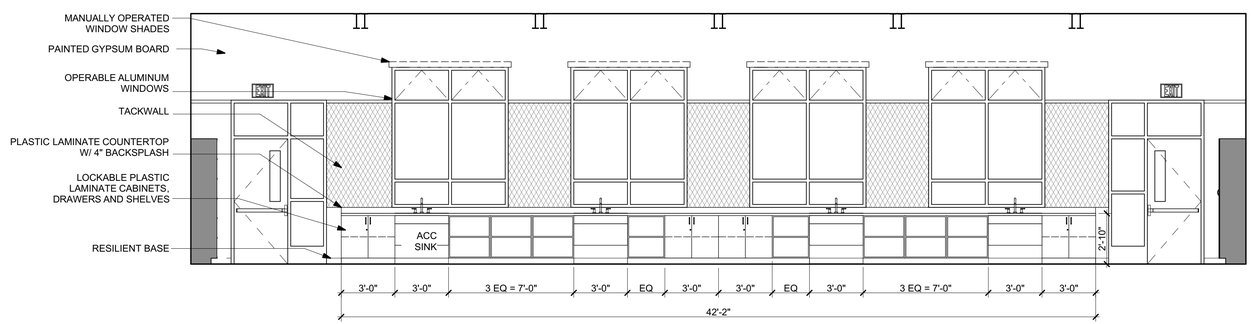
1. PROVIDE ELECTRICAL OUTLET AROUND ALL WALLS.
2. ALL LOCKABLE CABINETS WITH KEYS.
3. PROVIDE CLAY TRAPS AT ALL SINK




WEST




NORTH

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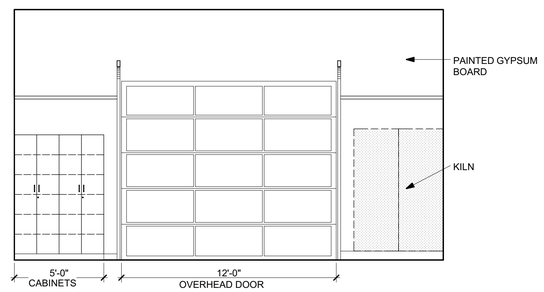


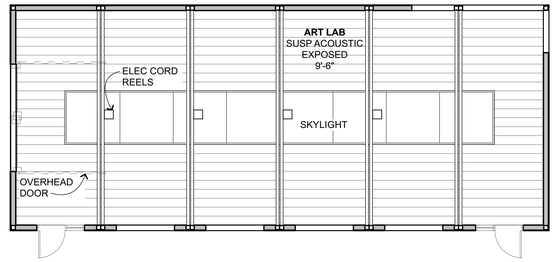

SOUTH

## INTERIOR ELEVATIONS

# ART CLASSROOM

> DAVIDSON MIDDLE SCHOOL - SCIENCE AND ART BUILDING | APRIL 05, 2017 | SCHEMATIC DESIGN | 1630.00

QUATTROCCHI KWOK
ARCHITECTS




# FIRST FLOOR RCP PLAN : SCIENCE AND ART CLASSROOM

> DAVIDSON MIDDLE SCHOOL - SCIENCE AND ART BUILDING | APRIL 05, 2017 | SCHEMATIC DESIGN | 1630.00

# SCHEMATIC DESIGN

San Rafael City School District

# LAUREL DELL ELEMENTARY SCHOOL

## REPLACEMENT CAMPUS
## MODULAR BLDGS AND MODERNIZATION

225 Woodland Avenue, San Rafael, CA 94901

QUATTROCCHI KWOK
ARCHITECTS

**OWNER**

San Rafael City School District
310 Nava Albion Way
San Rafael, CA 94903
Phone: 415-492-3257
Contact: Dan Zaich
Email: dzaich@srcs.org

**CONSTRUCTION MANAGER**

Van Pelt Construction Services
5030 Business Center Drive, Suite 240
Fairfield, CA 94534
Phone: 415-492-3215
Fax: 510-9198748
Contact: Terese Sladowska
Email: terese.sladowska@vpcsonline.com

**ARCHITECT**

Quattrocchi Kwok Architects
636 Fifth Street
Santa Rosa, CA 95404
Phone: 707-576-0829
Fax: 707-576-0295
Contact: John Dybczak
Email: johd@qka.com

**CIVIL ENGINEER**

BKF Engineers
4670 Willow Road, Suite 250
Pleasanton, CA 94588
Phone: 925-396-7718
Fax: 925-396-7799
Contact: Jason Kirchman
Email: jkirchman@BKF.com

**LANDSCAPE ARCHITECT**

Carducci & Associates, Inc.
555 Beach Street, Fourth Floor
San Francisco, CA 94133
Phone: 415-674-0990
Fax: 415-674-0999
Contact: Vince Carducci
Email: vince@carducciassociated.com

**STRUCTURAL ENGINEER**

ZFA Structural Engineers
1212 Fourth Street, Suite Z
Santa Rosa, CA 95404
Phone: 707-526-0992
Fax: 707-526-0217
Contact: Chris Warner
Email: chrisw@zfa.com

**MECHANICAL ENGINEER**

Costa Engineers
3274 Villa Lane
Napa, CA 94558
Phone: 707-252-9177
Fax: 707-252-6473
Contact: Chris del Core
Email: cdelcore@costaengineers.com

**ELECTRICAL ENGINEER**

O'Mahony & Myer
4340 Redwood Highway, Suite 245
San Rafael, CA 94903
Phone: 415-492-0420
Fax: 415-479-6962
Contact: Pieter Colenbrander
Email: pcolenbrander@ommconsulting.com

**GEOTECHNICAL ENGINEER**

Miller Pacific Engineering Group
504 Redwood Blvd., Suite 220
Novato, CA 94947
Phone: 415-382-3444
Fax: 415-382-3450
Contact: Benjamin Pappas
Email: bpappas@millerpac.com

**FOOD SERVICE**

Ballinger Restaurant Equipment, Inc.
1000 Apollo Way, Suite 170
Santa Rosa, CA 95407
Phone: 707-544-8924
Fax: 707-544-8925
Contact: Larry Ballinger
Email: Larry@brequipment.com

# COVER SHEET

LAUREL DELL ELEMENTARY SCHOOL - MODERNIZATION AND ADDITIONS
BUILDING CODE ANALYSIS
**BUILDING A, B AND C**

| | |
|---|---|
| OCCUPANCY & USE: | A2 OCCUPANCY WITH NON-SEPARATED MIXED USE FOR EDUCATION, BUSINESS & ASSEMBLY WITH ASSEMBLY BEING MOST RESTRICTIVE |
| CONSTRUCTION TYPE: | V-B |
| ALLOWABLE NUMBER OF STORIES: | 1 |
| NUMBER OF ACTUAL STORIES: | 2 STORY |
| ALLOWABLE BUILDING HEIGHT: | 60 FEET |
| ACTUAL BUILDING HEIGHT: | 23 FEET |
| TOTAL ACTUAL AREA: | NEW BLDG C 8,832 S.F.<br>(E) BLDG A 2,901 S.F.<br>(E) BLDG B 3,344 S.F.<br>15,077 S.F. TOTAL BLDG AREA OF A, B & C<br>4,313 TOTAL OVERHANGS AREA BLDG A, B & C<br>**19,390 S.F** TOTAL BLDG AREA W/ OVERHANGS |
| ALLOWABLE AREA: | 24,000 S.F. |
| AREA INCREASES: | NOT USED |
| HEIGHT INCREASES: | NOT USED |
| FIRE SPRINKLERS: SYSTEM, IS | COMPLETE AUTOMATIC FIRE SPRINKLER SYSTEM (AFSS), WET PROVIDED. (SEE DEFERRED APPROVAL FOR AFSS). |
| OTHER FIRE PROTECTION SYSTEMS: | FIRE EXTINGUISHERS AS NOTED ON LIFE SAFETY PLAN. |
| SMOKE CONTROL SYSTEM: | T.B.D. |
| HIGH FIRE HAZARD SEVERITY ZONE: | NO |
| SEISMIZ JOINTS: | NO |
| EMERGENCY RESPONDER RADIO COVERAGE: | NOT REQUIRED. THERE ARE NO AREAS WITHIN THE BUIDING THAT WILL CAUSE AN ISSUE WITH THE FIRE DEPARTMENT RADIO SYSTEM. |
| BUILDING OCCUPANT LOAD: | BUILDING A = 128<br>BUILDING B = 107<br>BUILDING C = 510<br>**745** OCCUPANTS TOTAL FOR BLDG A, B AND C |

**BUILDING D AND E**

| | |
|---|---|
| OCCUPANCY & USE: | E OCCUPANCY FOR CLASSROOMS |
| CONSTRUCTION TYPE: | V-B |
| ALLOWABLE NUMBER OF STORIES: | 1 |
| NUMBER OF ACTUAL STORIES: | 2 STORY |
| ALLOWABLE BUILDING HEIGHT: | 60 FEET |
| ACTUAL BUILDING HEIGHT: | 15 FEET |
| TOTAL ACTUAL AREA: | NEW BUILDING D 3,912 S.F.<br>NEW BUILDING E 1,290 S.F.<br>**5,202 S.F.** TOTAL BUILDING AREA OF D AND E |
| ALLOWABLE AREA: | 38,000 S.F. |
| AREA INCREASES: | NOT USED |
| HEIGHT INCREASES: | NOT USED |
| FIRE SPRINKLERS: SYSTEM, IS | COMPLETE AUTOMATIC FIRE SPRINKLER SYSTEM (AFSS), WET PROVIDED. (SEE DEFERRED APPROVAL FOR AFSS). |
| OTHER FIRE PROTECTION SYSTEMS: | FIRE EXTINGUISHERS AS NOTED ON LIFE SAFETY PLAN. |
| SMOKE CONTROL SYSTEM: | T.B.D. |
| HIGH FIRE HAZARD SEVERITY ZONE: | NO |
| SEISMIZ JOINTS: | NO |
| EMERGENCY RESPONDER RADIO COVERAGE: | NOT REQUIRED. THERE ARE NO AREAS WITHIN THE BUIDING THAT WILL CAUSE AN ISSUE WITH THE FIRE DEPARTMENT RADIO SYSTEM. |
| BUILDING OCCUPANT LOAD: | BUILDING D = 182<br>BUILDING E = 0<br>**182** OCCUPANTS TOTAL FOR BUILDING D & E |

GATES TO SAFE DISPERSAL AREA= 927 OCCUPANTS X 139.5"/12"= 11.59'
SAFE DISPERSAL AREA = 927 TOTAL OCCUPANTS X 5 S.F./PERSON= 4,635 SF AREA

**School Name** PHASE
**Plumbing Fixture Count - MINIMUM** xxxx-B
All numbers must be rounded UP

Student population of 300 150 M 150 F Number of students, equally distributed

**Recommended Plumbing Fixtures**

| Boys | No. of Fixtures | | Staff 18 TOTAL | No. Req'd | 1 MIN EACH! |
|---|---|---|---|---|---|
| Water Closets - 1:50 | 50 | 3 * | WC - 1:30 | 0 EACH | |
| Urinals - 1:100 | 100 | 1.5 | Urinals - 1:50 | 0 | |
| Lavatories - 1:40 | 40 | 4 | Lavatories - 1:40 | 0 EACH | |
| Girls | | | 2016 CBC doesn't differentiate loading for kindergartens | | |
| Water Closets - 1:30 | 30 | 5 **4.5** ** | | | |
| Lavatories - 1:40 | 40 | 4 | | | |

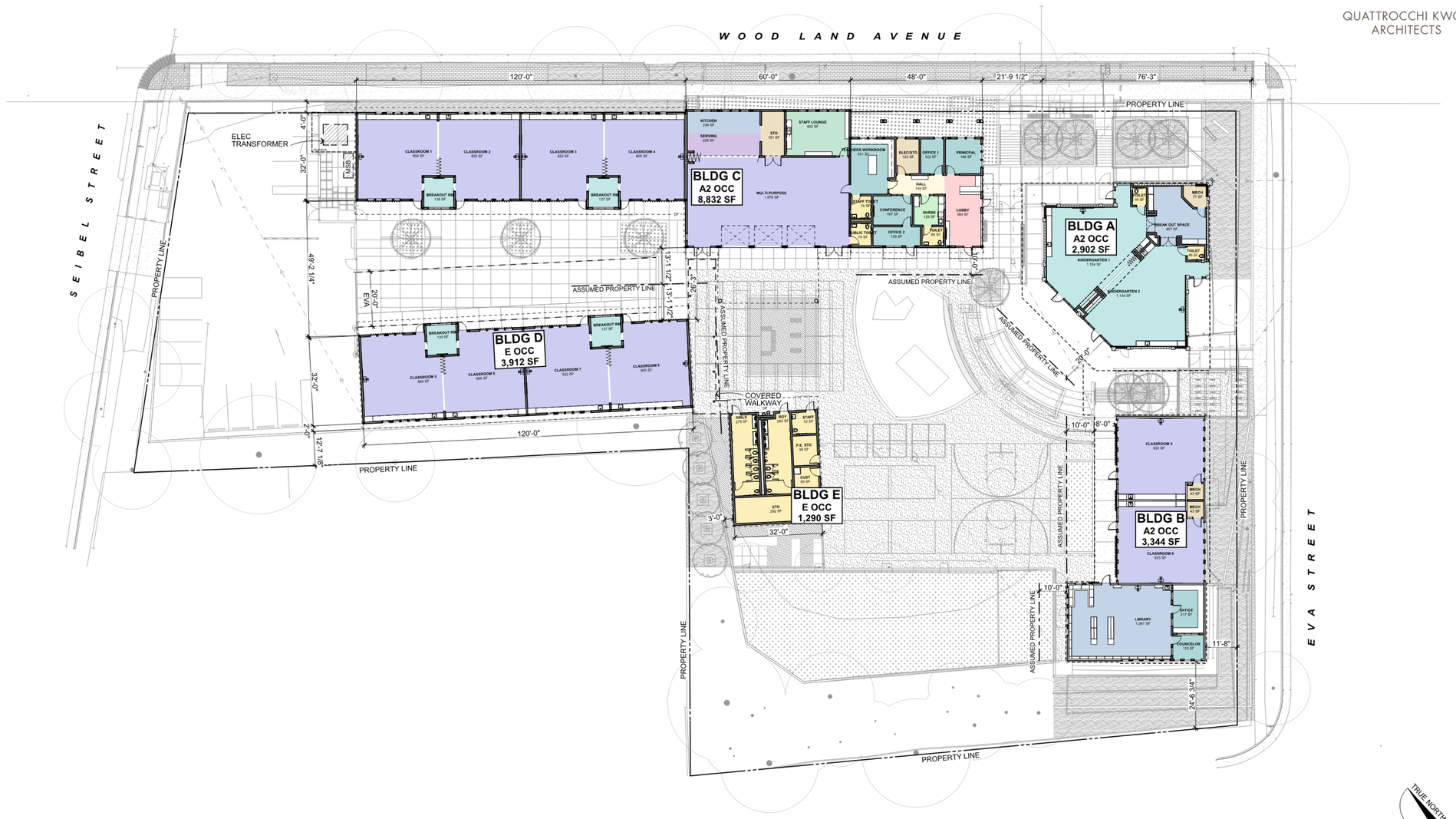
**Distribution of Plumbing Fixtures** Date

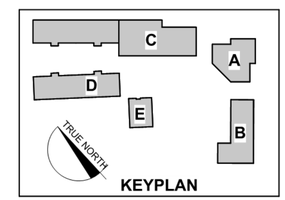
| | Students | | | | | | | | Staff | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | Girls | | | Boys | | | Unisex | | Women | | | Men | | | Unisex | |
| Name | WC | U | LAV | WC | U | LAV | WC | LAV | WC | LAV | WC | U | LAV | WC | LAV | |
| Building A- Kindergarten | | 0 | | | 0 | | | 2 | | | | | | | | 2 (Check |
| | | | 0 | | | 0 | | 2 | | | | | | | | 2 Sums) |
| | | | | | | | | | | | | | | | | |
| Building B | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| | | | | | | | | | | | | | | | | |
| Building C - MPR | 0 | 0 | 0 | 0 | 0 | 1 | 1 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| Building C - Admin | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 1 | 1 | |
| Building C -Nurse | 0 | 0 | 0 | 0 | 0 | 1 | 1 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | |
| | | | | | | | | | | | | | | | | |
| Building D | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | |
| | | | | | | | | | | | | | | | | |
| Building E- Restrooms | 5 | 4 | 3 | 2 | 4 | *** | *** | 0 | 0 | 0 | 0 | 0 | 1 | 1 | | |
| | | | | | | | | | | | | | | | | |
| | | | | | | | | | | | | | | | | |
| Total WC | 5 | | 3 | | 4 | | 0 | | 0 | | 2 | | | | | |
| Total U | | | 2 | | | | | | 0 | | | | | | | |
| Total LAV | | 4 | | 4 | | 4 | | 0 | | 0 | | 2 | | | | |

Drinking Fountain Req 2 **(Note:At least 1 bubblers is provided at each classroom sink.)**

Assembly is hidden

Notes:
1. 2016 CA Table 422.1
* 2. For each urinal in excess of the min required, 1 WC shall be permitted to be deducted. Number of WC shall not be reduced to less than 2/3 of the min requirement.
** 3. Minimum number of Female water closets equal to total number WC+U for Males
Please be aware these are minimum requirements; more fixtures or toilet rooms may be required to adequately serve students and staff in some facility layouts. For example, schools are to have restrooms on each floor that has classrooms.
*** 4. Staff toilets are shared with Gender Neutral students.




# CAMPUS SITE PLAN

0 10' 20' 40'

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A-1.1

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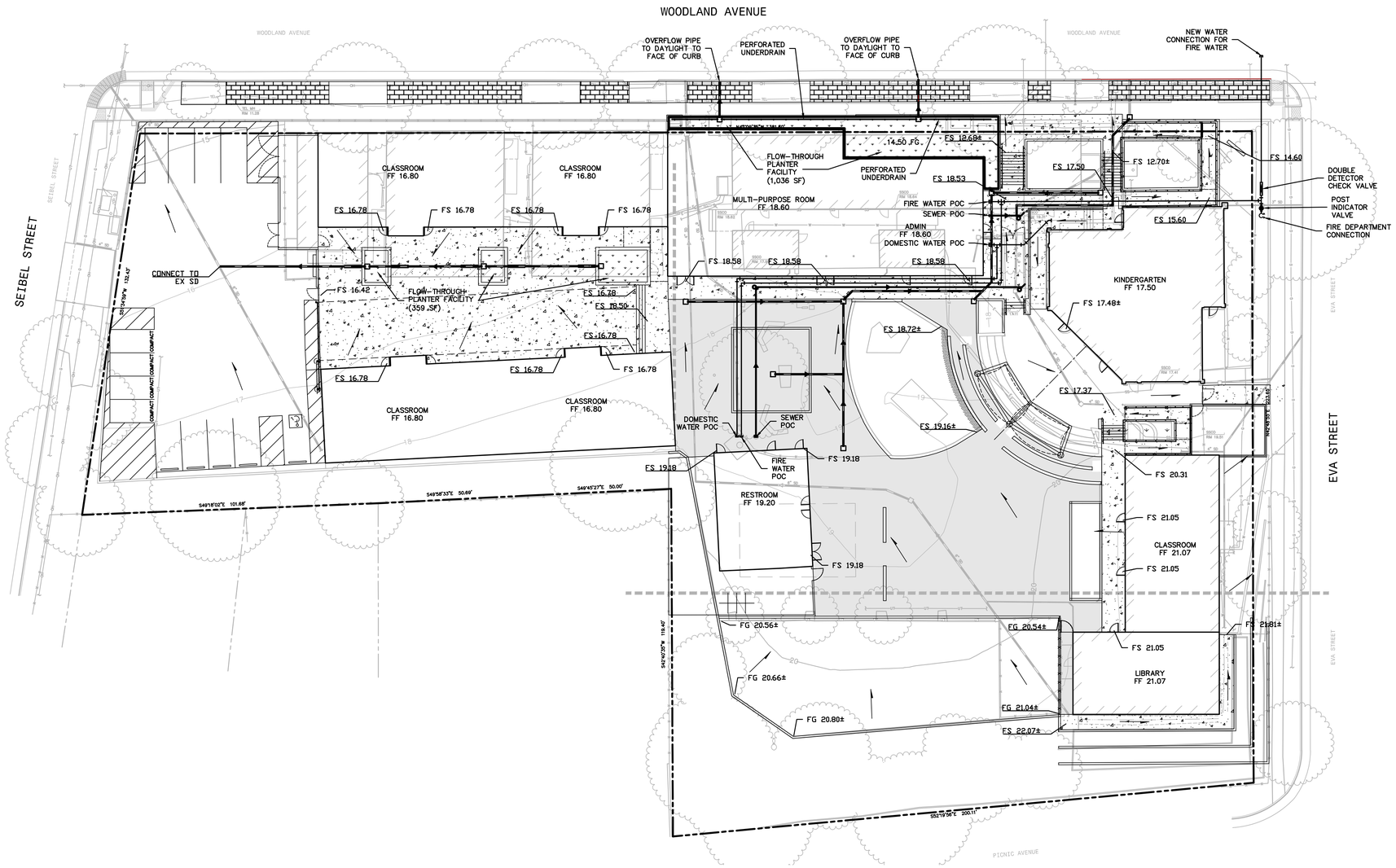
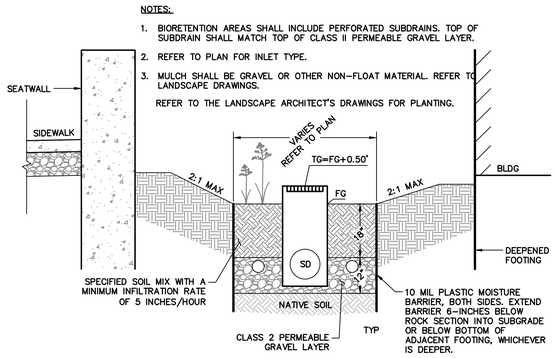


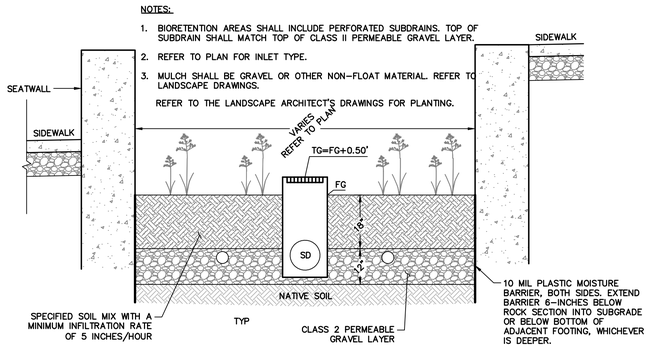

LEGEND

- BACKFLOW PREVENTION DEVICE
- FIRE DEPARTMENT CONNECTION
- POST INDICATOR VALVE
- CATCH BASIN
- SANITARY SEWER
- STORM DRAIN
- WATER/FIRE WATER PER PLAN
- ASPHALT
- CONCRETE
- BIORETENTION AREA
- PAVERS PER LANDSCAPE ARCHITECT




BIORETENTION FACILITY

NO SCALE

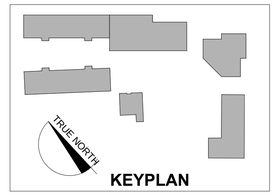



FLOW THROUGH PLANTER FACILITY

NO SCALE

KEYNOTES:

⑦ 4-INCH PERFORATED PIPE. SDR35 PVC OR EQUIVALENT. INSTALL WITH PERFORATIONS FACING DOWN.




QUATTROCCHI KWOK ARCHITECTS

BKF ENGINEERS / SURVEYORS / PLANNERS
200 4TH ST, STE. 300 SANTA ROSA, CA 95401
(707) 583-8500 FAX: (707) 583-8539

PRELIMINARY
NOT FOR CONSTRUCTION
DATE: 05/12/2017

# SCHEMATIC DESIGN - CIVIL

> LAUREL DELL ELEMENTARY SCHOOL | MAY 12, 2017 | SCHEMATIC DESIGN | 1637.00

# NOTES

1. BIO FILTRATION PLANTING WITH SURFACE INLETS, SUB–SURFACE DRAINAGE AND PERFORATED DRAIN LINES, AND WATER COLLECTION SYSTEM THAT TREATS AND FILTER RUN–OFF IN THE PLANTING AREAS. STORM DRAIN SYSTEM: SEE CIVIL DRAWINGS.
2. CONCRETE PAVING. NON–SLIP MEDIUM BROOM FINISH, NATURAL COLOR.
3. SEATWALLS SHALL BE 12" WIDE X 18" HT, REINFORCED CONCRETE WITH NATURAL COLOR AND MEDIUM SANDBLAST FINISH TO ALL EXPOSED SURFACES.
4. DISTRICT STANDARD IRRIGATION INCLUDING: SUB–SURFACE DRIP IRRIGATION AND AN ET BASED SMART CONTROLLER AS REQUIRED BY TITLE 23 WILL BE UTILIZED TO ACHIEVE BEST PRACTICES GOALS OF WATER CONSERVATION. A SEPARATE BUBBLER IRRIGATION SYSTEM WILL UTILIZED FOR TREES. ASSUME NEW IRRIGATION METER, BACKFLOW, MASTER VALVE & FLOW SENSOR ARE REQUIRED.
5. TRASH, RECYCLING, AND COMPOST BIN ENCLOSURE, ELECTRICAL EQUIPMENT, AND GATE WITH ARCHITECTURAL WALL TO MATCH BUILDING.
6. PICNIC TABLES BY DISTRICT.
7. SCHOOL SIGN BY ARCHITECTS DRAWINGS.
8. TREE SELECTIONS: DISTRICT STANDARD.
9. PLANTING SHALL CONSIST OF DISTRICT STANDARD PLANTS, AND ADDITIONAL WATER–CONSERVING PLANTS AS REQUIRED FOR STORM WATER TREATMENT PLANTERS. SHRUBS AND PERENNIALS SHALL BE 75% 5 GALLON AND 25% 1 GALLON. GROUND COVER SHALL BE 1 GALLON, 24" TRIANGULAR SPACING TYP.
10. POLLINATOR GARDEN.
11. SHADE COVER AT AMPHITHEATER BY ARCHITECTS.
12. SYNTHETIC TURF: NON–INFILL, 1–1/4" FIBER HEIGHT WITH ATHLETIC – APPROPRIATE SHOCK PAD UNDERLAYMENT; AT755 WITH 8MM INTEGRAL PAD
13. REINFORCED CONCRETE EDGING, 8"W X 12"D (NATURAL COLOR).
14. REINFORCED CONCRETE WALL, 8" WIDE, MEDIUM SANDBLAST FINISH, NATURAL COLOR.
15. ASPHALT PAVING, PEDESTRIAN (3" OVER 6" AGGREGATE).
16. ASPHALT PAVING, VEHICULAR & NEW PARKING STRIPING SEE CIVIL DWG.
17. STABILIZED DECOMPOSED GRANITE, 2" OVER 6" AGGREGATE BASE, WITH GEOTEXTILE UNDERLAYMENT.
18. PERMEABLE PAVERS, RUNNING BOND PATTERN SQUARE TO EDGE, 60MM THICK, CALSTONE "MISSION PERMEABLE" OR EQUAL, BETWEEN (E) TREES TO REMAIN. ALT: CONCRETE WITH NEW TREES (40' ON CENTER) IN 5'X5' PLANTING AREA.
19. VEGETABLE GARDEN BEDS.
20. FRUIT TREES
21. RETAINING WALL, SEE ENGINEER'S DRAWINGS.
22. RELOCATED EXISTING GREENHOUSE.
23. CONCRETE STEPS.
24. FENCED BIKE PARKING.
25. FOUR SQUARE (3).
26. BALL WALLS (2) – 12' LONG WITH SPACE BETWEEN.
27. BASKETBALL HOOPS & HALF–COURTS, SET TO ELEMENTARY SCHOOL HEIGHT.
28. ORNAMENTAL FENCES & GATES, 6' HIGH.
29. VEHICULAR GATE, 6' HIGH, SLIDING.
30. CHAIN LINK FENCE & NETTING.
31. EXISTING WALL.
32. STUDENT WAITING AREA 'ON CAMPUS'.
33. STUDENT READING AND GAME LOUNGE WITH STORAGE BENCHES.
34. PEACE PATH BY STUDENTS (NOT SHOWN) & CONCRETE (VEHICULAR) PAVING.
35. EXISTING PLANTING.
36. EXISTING ELM TREE TO REMAIN.
37. EXISTING PLAY EQUIPMENT & SURFACE, ALT: NEW SURFACING & MODERN SPACE–EFFICIENT STRUCTURE.
38. ACCESSIBLE RAMPS.
39. RAIN BARREL FOR GARDEN.
40. TEACHING BOARDS.
41. NEW ACCESSIBLE DROP–OFF ALONG WOODLAND AVE.
42. EXPANDED AMPHITHEATER SEATING WITH ACCESSIBLE WHEELCHAIR SEATING, TYP OF 4.
43. PICK–UP AREA.
44. SYNTHETIC TURF SLOPE WITH SEATWALL.
45. EXISTING SIDEWALK TO REMAIN.
46. VISITOR BIKE RACK.
47. 30' HIGH FLAG POLE.

✕ EXISTING TREE TO BE REMOVED.

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www.carducciassociates.com
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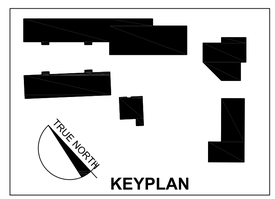


# SCHEMATIC LANDSCAPE LEGEND

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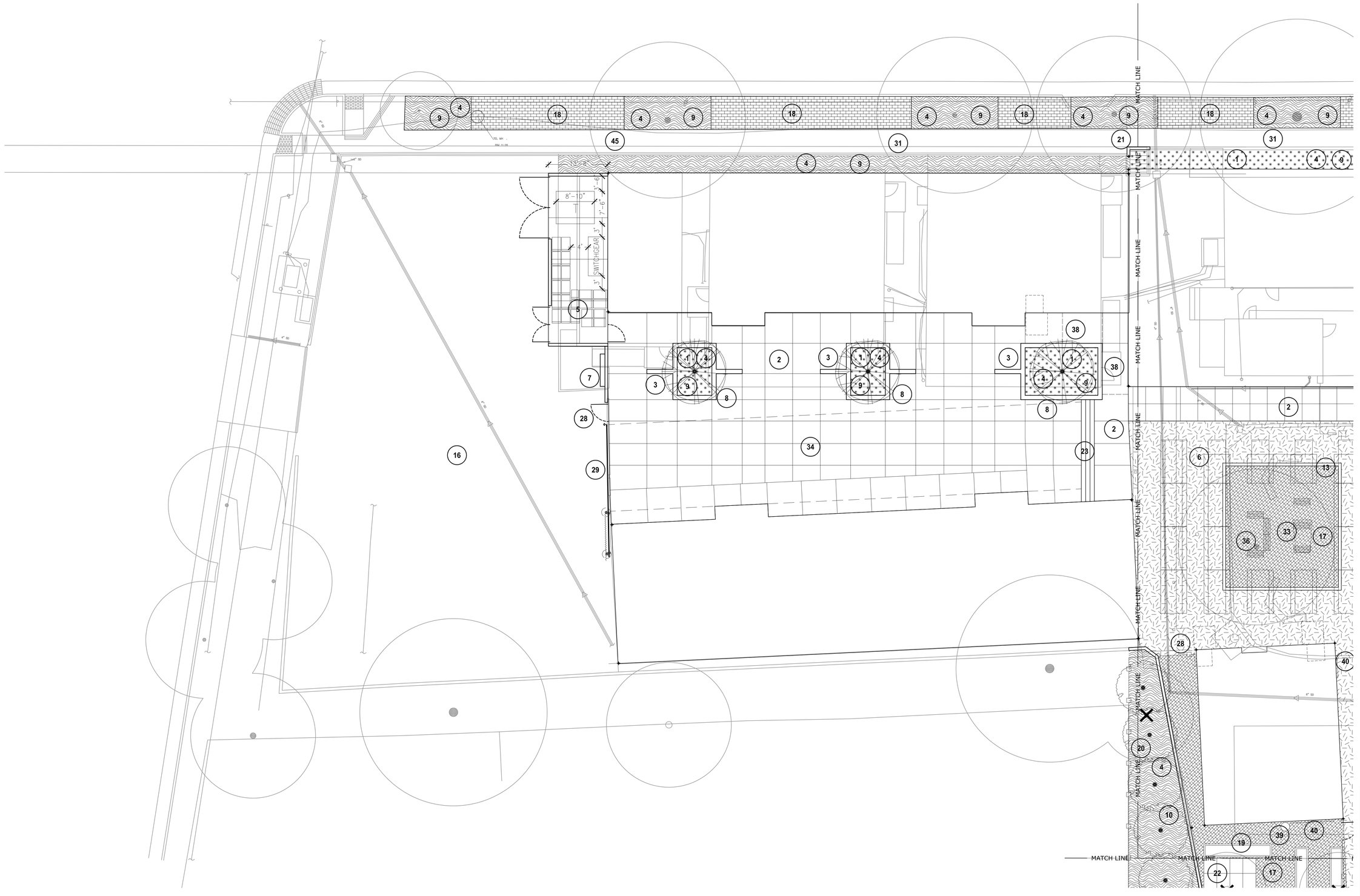


# SCHEMATIC LANDSCAPE PLAN 01

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L2

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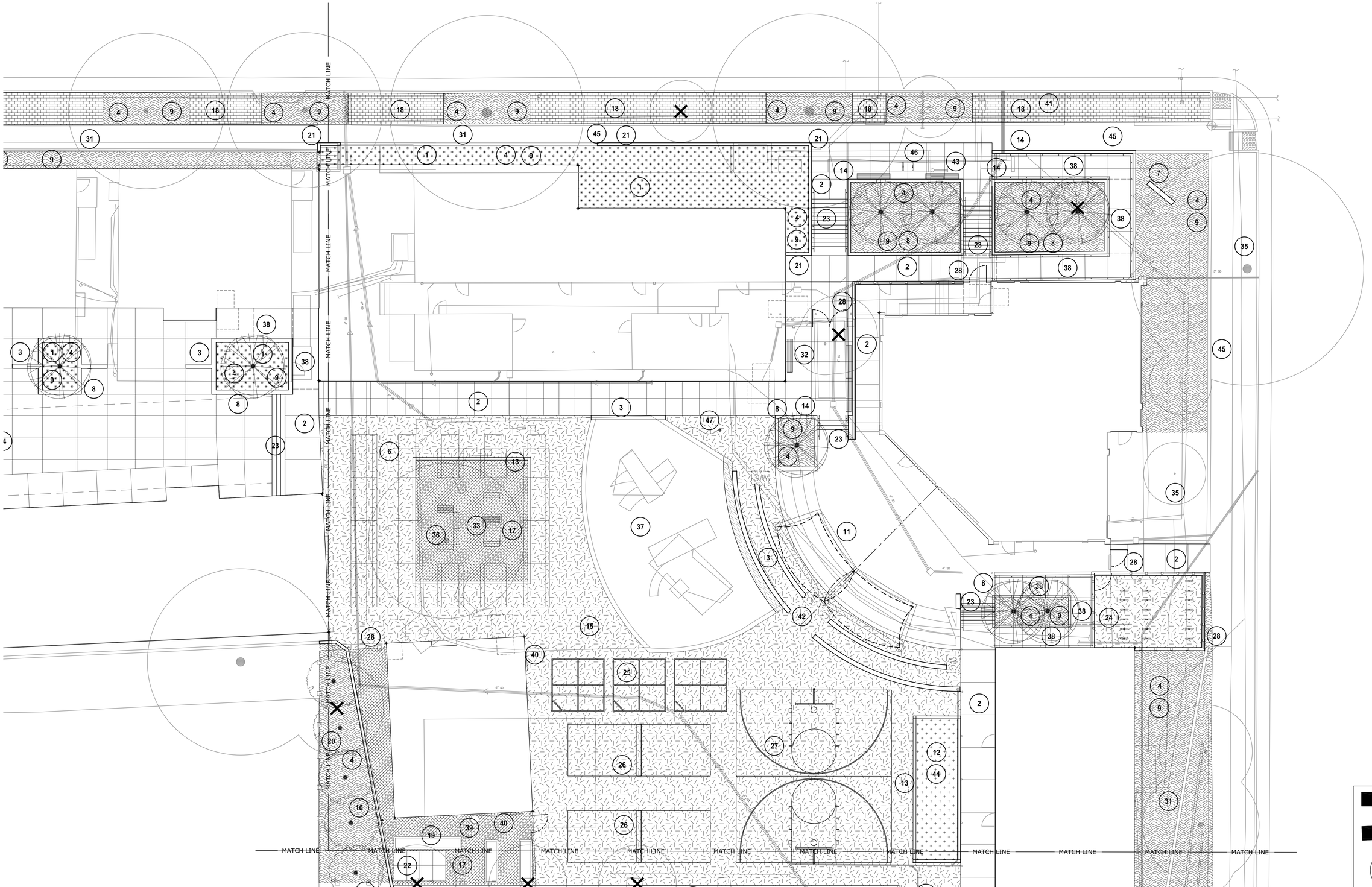
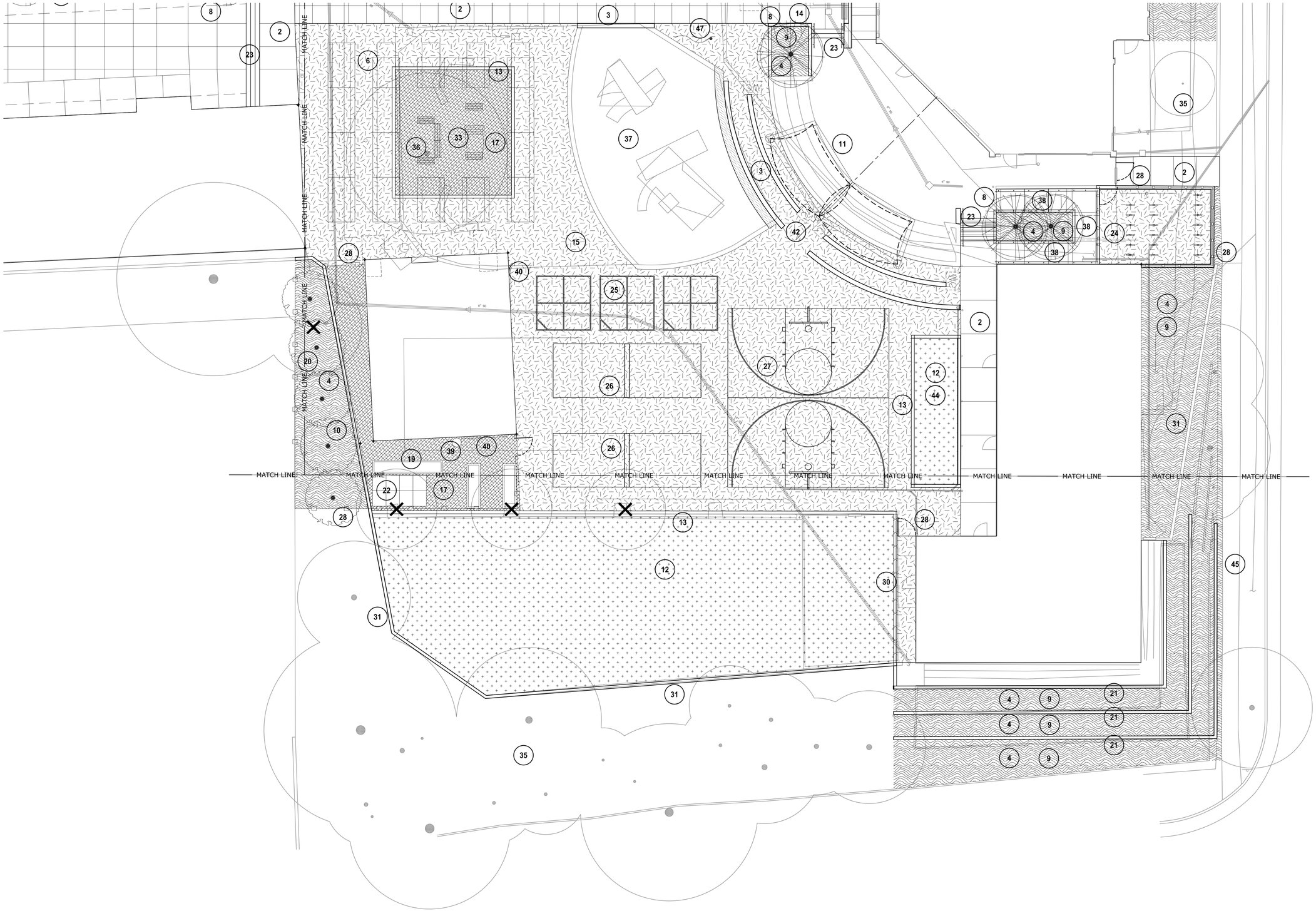

MATCH LINE
MATCH LINE
MATCH LINE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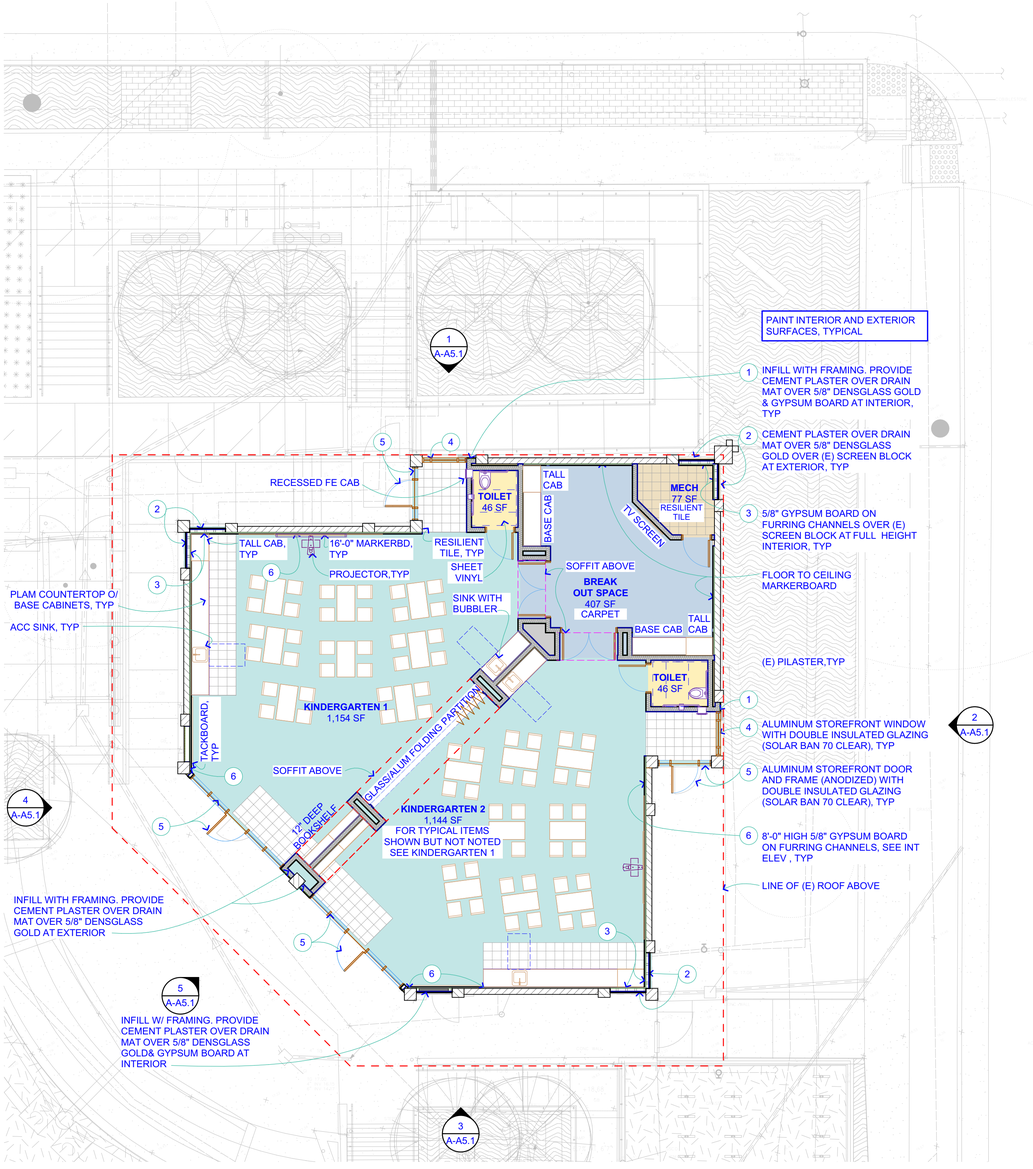
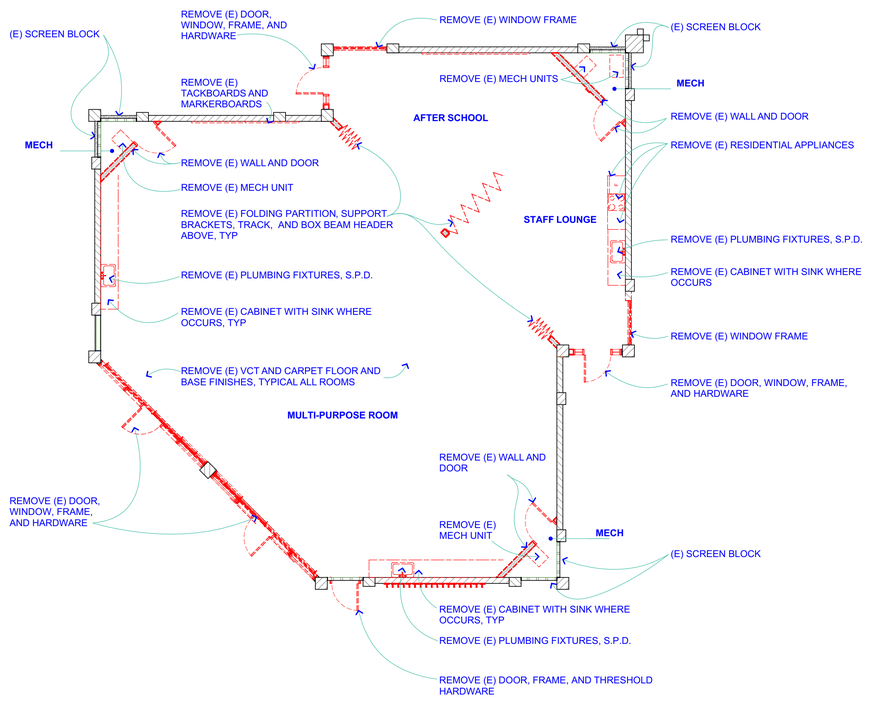


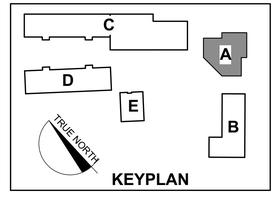

FLOOR PLAN 2
1/8" = 1'-0"




DEMOLITON PLAN 1
1/8" = 1'-0"

PLAN NORTH

# DEMOLITION AND FLOOR PLAN - KINDERGARTEN




0 4' 8' 16'

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A-A2.1

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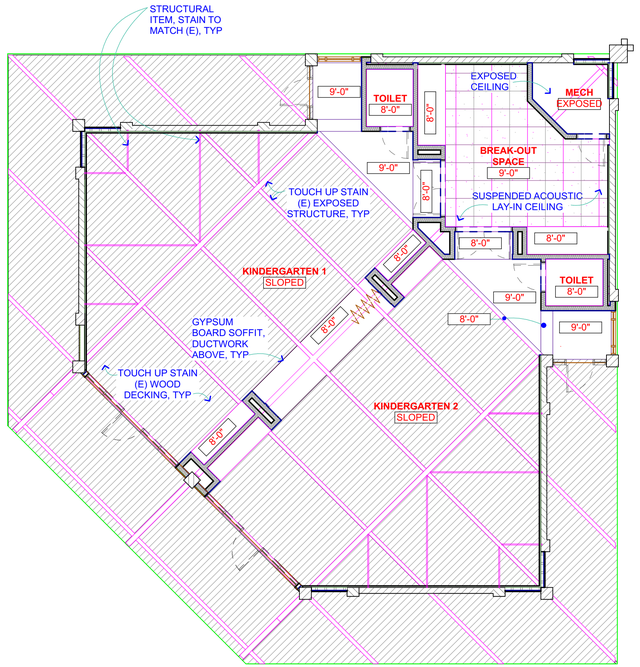
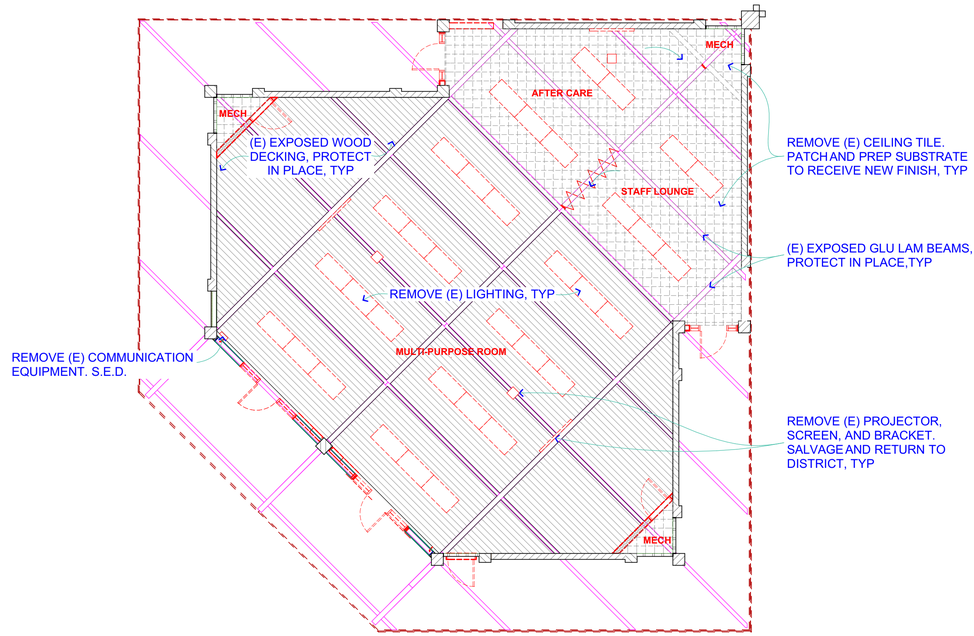
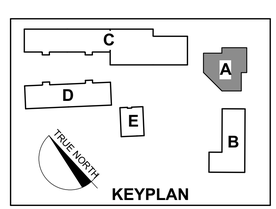



REFLECTED CEILING PLAN 2
1/8" = 1'-0"




DEMO REFLECTED CEILING PLAN 1
1/8" = 1'-0"

# DEMOLITION REFLECTED CEILING PLAN - KINDERGARTEN




0 4' 8' 16'

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A-A3.1

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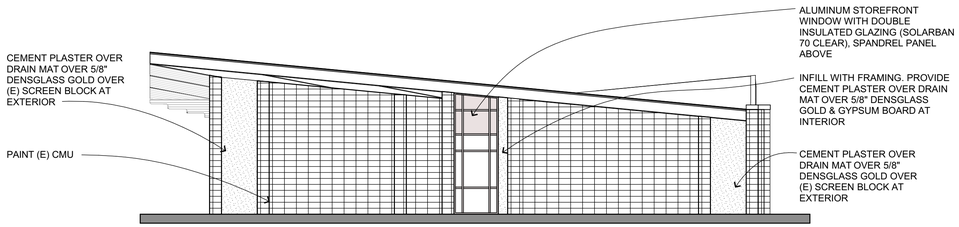
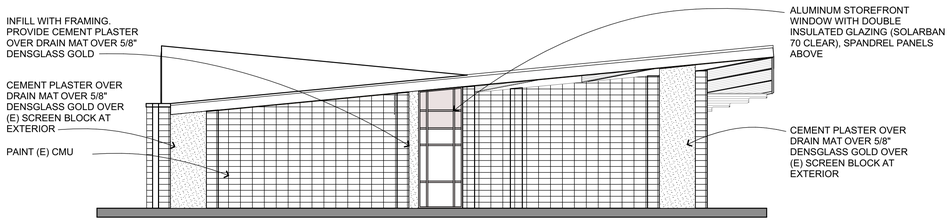
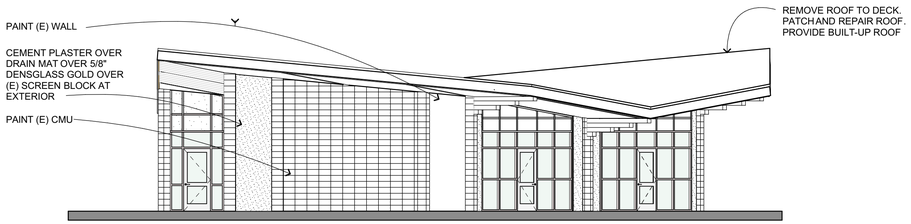


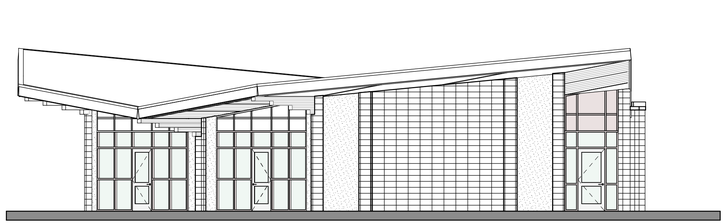

**EAST ELEVATION** 2
1/8" = 1'-0"



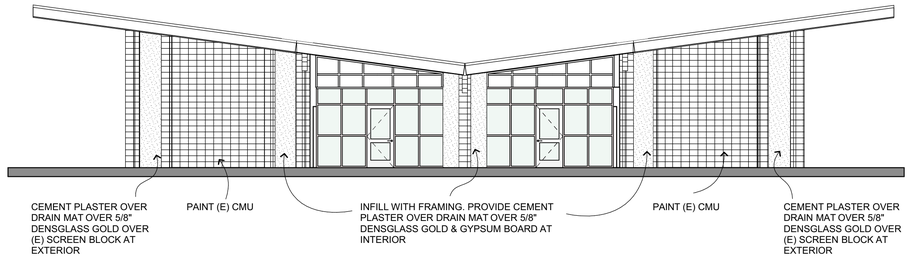

**NORTH ELEVATION** 1
1/8" = 1'-0"



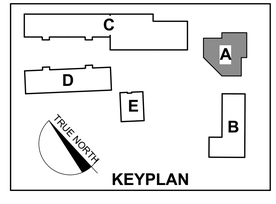

**WEST ELEVATION** 4
1/8" = 1'-0"



**SOUTH ELEVATION** 3
1/8" = 1'-0"




**SOUTHWEST ELEVATION** 5
1/8" = 1'-0"




# EXTERIOR ELEVATIONS - KINDERGARTEN

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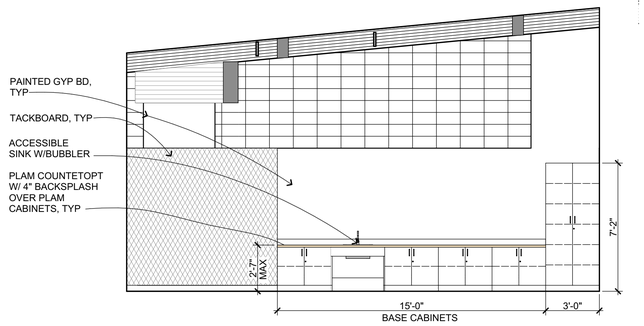
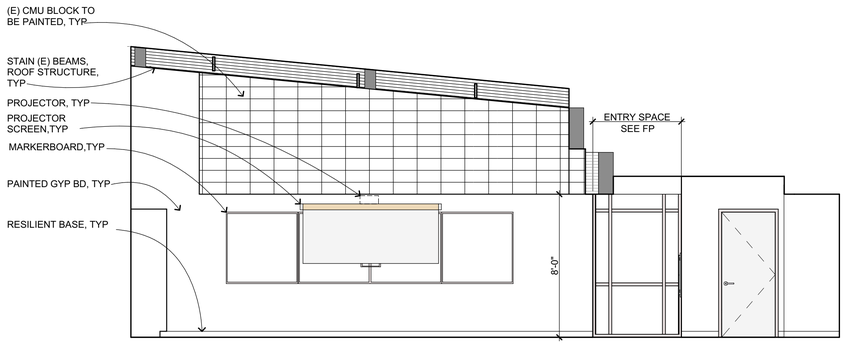
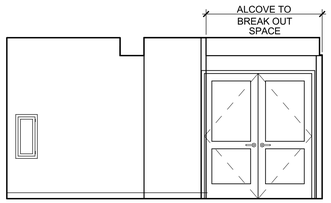


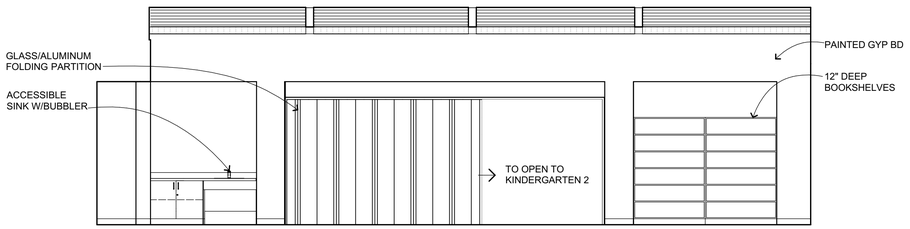

WEST



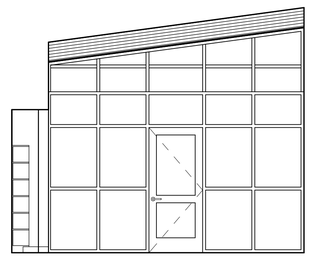

NORTH




EAST

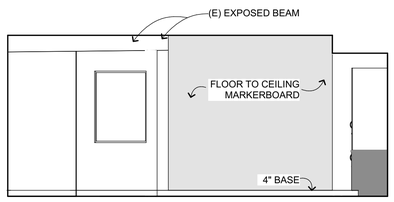



SOUTHEAST

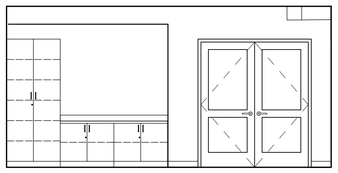


SOUTHWEST

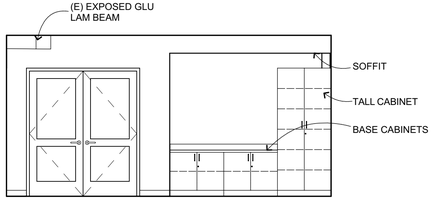
TYPICAL KINDERGARTEN CLASSROOM **3**
1/4" = 1'-0" A-A2.1



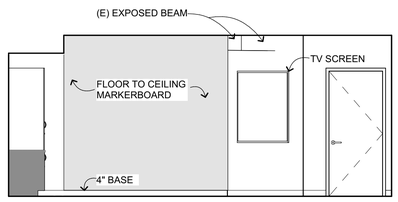

EAST



SOUTH

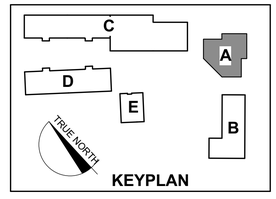



WEST




NORTH

TYPICAL KINDERGARTEN CLASSROOM **6**
1/4" = 1'-0" A-A2.1

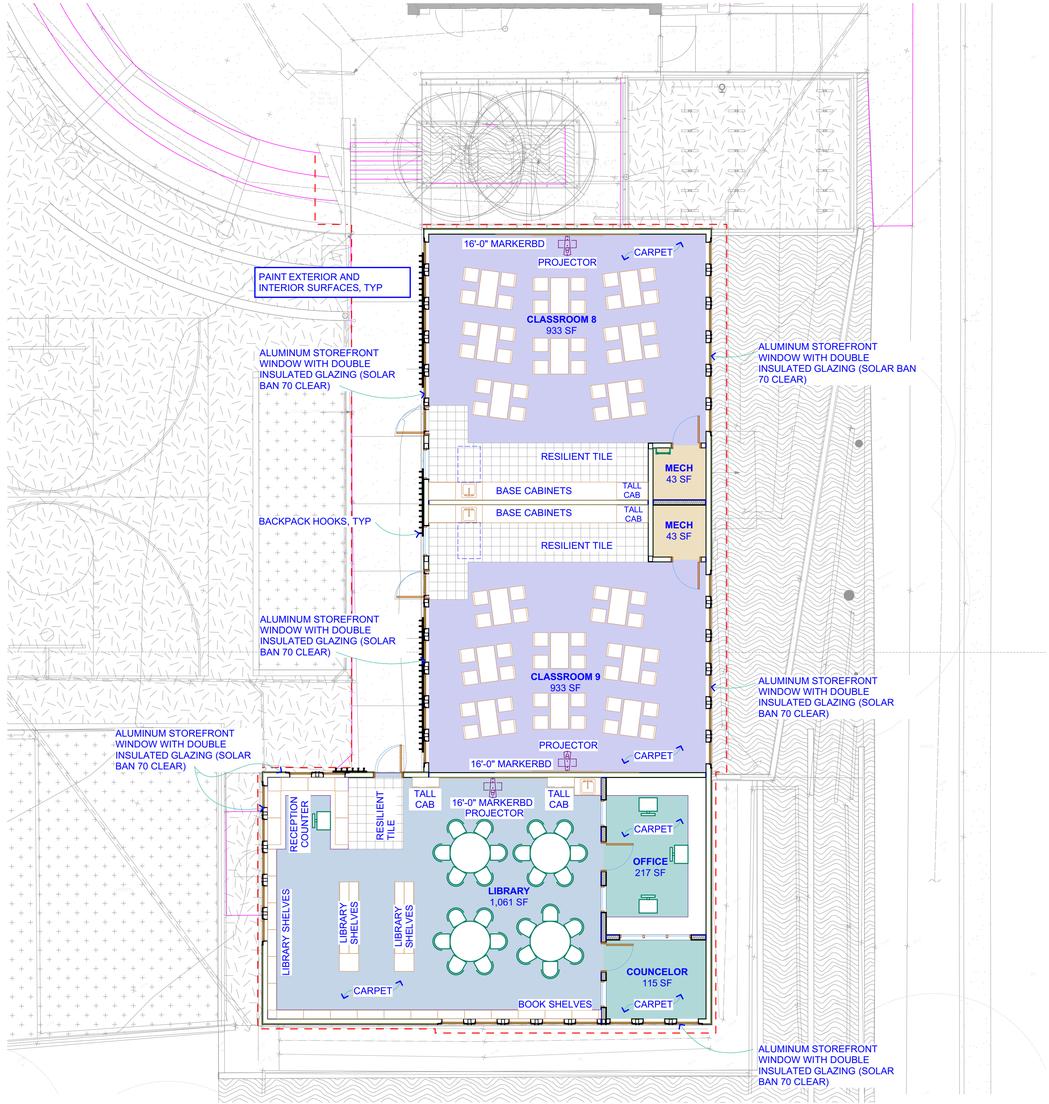



# INTERIOR ELEVATIONS - KINDERGARTEN

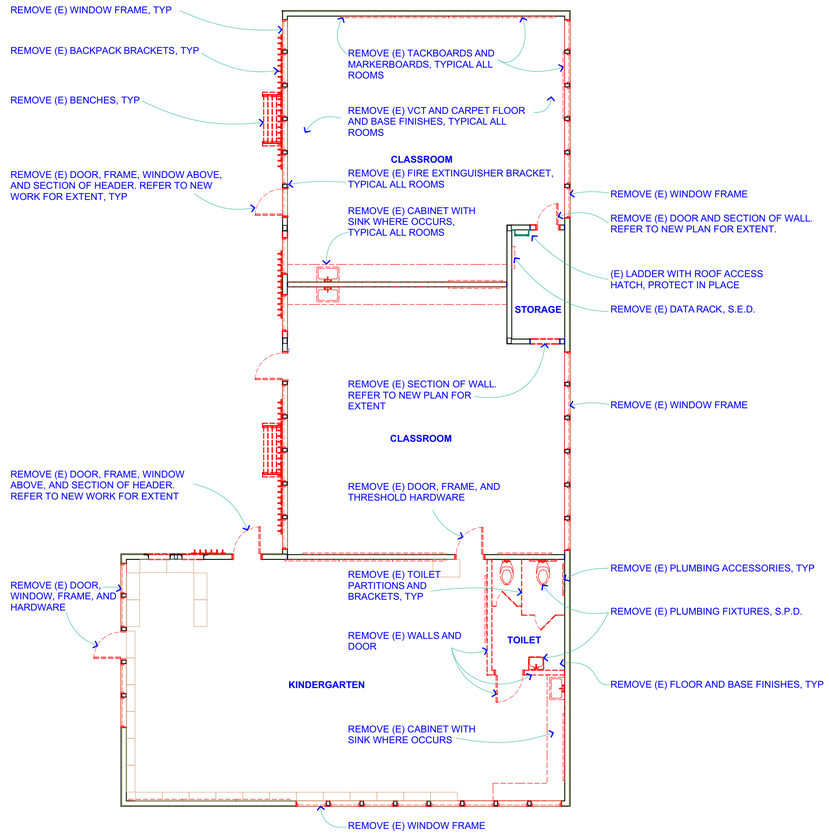
> LAUREL DELL ELEMENTARY SCHOOL | MAY 15, 2017 | SCHEMATIC DESIGN | 1637.00

A-A7.1

QUATTROCCHI KWOK
ARCHITECTS



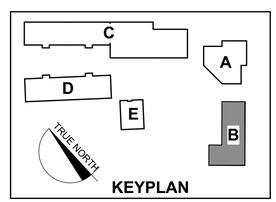

**FLOOR PLAN** 2
1/8" = 1'-0"




**DEMO FLOOR PLAN** 1
1/8" = 1'-0"

PLAN NORTH

# DEMOLITION AND FLOOR PLAN - CLASSROOMS AND LIBRARY

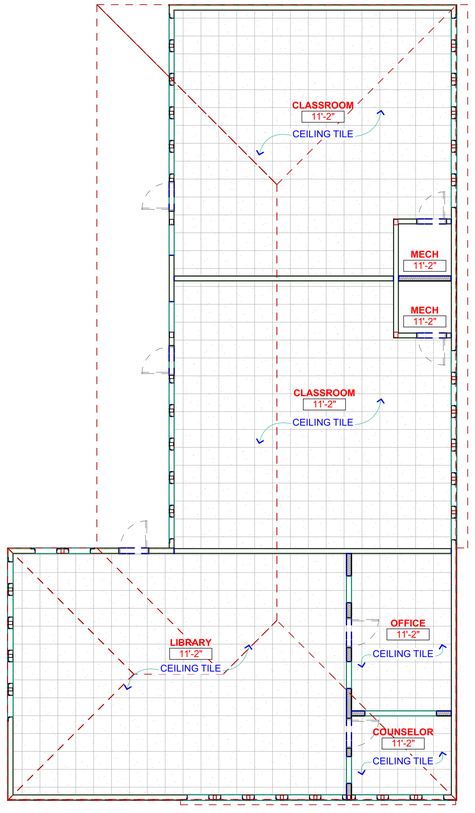



0 4' 8' 16'

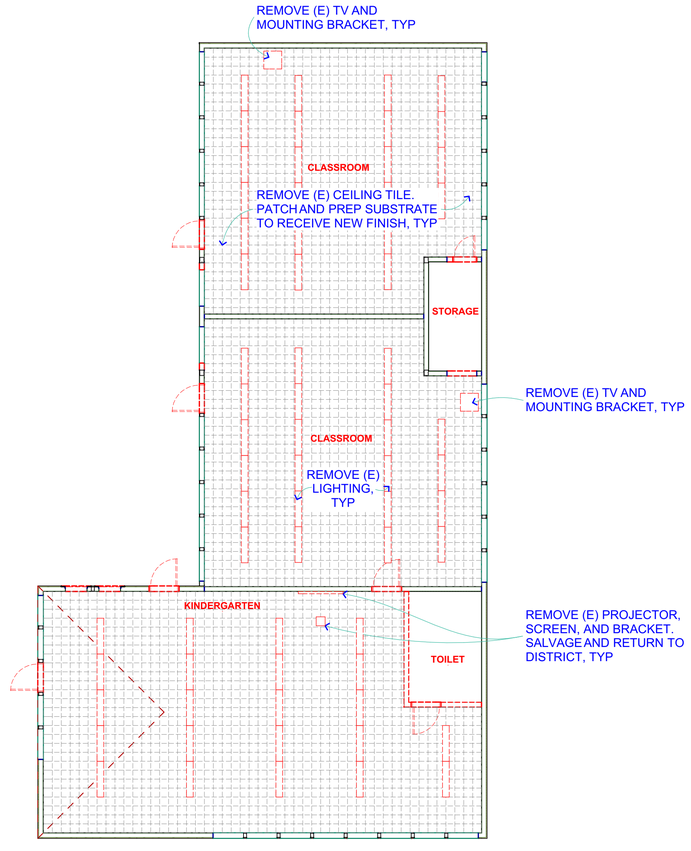
> LAUREL DELL ELEMENTARY SCHOOL | MAY 15, 2017 | SCHEMATIC DESIGN | 1637.00

A-B2.1

QUATTROCCHI KWOK
ARCHITECTS

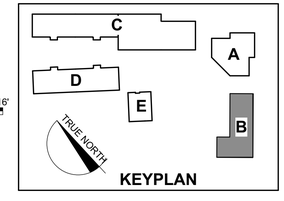



REFLECTED CEILING PLAN 2
1/8" = 1'-0"




DEMOLITION PLAN 1
1/8" = 1'-0"
PLAN NORTH

0 4' 8' 16'




# DEMOLITION AND REFLECTED CEILING PLAN - CLASSROOM AND LIBRARY

> LAUREL DELL ELEMENTARY SCHOOL | MAY 15, 2017 | SCHEMATIC DESIGN | 1637.00

A-B3.1

QUATTROCCHI KWOK ARCHITECTS

CLASSROOM 1 904 SF CARPET, TYP
CLASSROOM 2 905 SF FOR TYPICAL ITEM SHOWN BUT NOT NOTED SEE CLASSROOM 1
CLASSROOM 3 922 SF FOR TYPICAL ITEM SHOWN BUT NOT NOTED SEE CLASSROOM 1
CLASSROOM 4 905 SF FOR TYPICAL ITEM SHOWN BUT NOT NOTED SEE CLASSROOM 1
CLASSROOM 5 904 SF
CLASSROOM 6 905 SF
CLASSROOM 7 922 SF
CLASSROOM 8 905 SF
BREAKOUT RM 139 SF CARPET, TYP
BREAKOUT RM 137 SF
KITCHEN 238 SF
SERVING 226 SF
STO 151 SF RESILIENT TILE
STAFF LOUNGE 402 SF CARPET
MULTI-PURPOSE 1,976 SF RESILIENT TILE
TEACHERS WORKROOM 331 SF
ELEC/STO 122 SF RESILIENT TILE
OFFICE 1 122 SF CARPET
PRINICPAL 186 SF CARPET
HALL 149 SF VCT
RECEPTION
LOBBY 364 SF RESILIENT TILE
STAFF TOILET 76 SF SHEET VINYL
PUBLIC TOILET 78 SF SHEET VINYL
CONFERENCE 167 SF CARPET
OFFICE 2 139 SF CARPET
NURSE 129 SF RESILIENT TILE
TOILET 66 SF SHEET VINYL
GIRLS 279 SF SEALED CONC
BOY 283 SF SEALED CONC
STAFF 72 SF RESILIENT FLR
P.E. STO 98 SF SEALED CONC
CUST 85 SF SEALED CONC
STO 292 SF SEALED CONC

- PROVIDE POWER FOR CHARGING LAPTOP CART

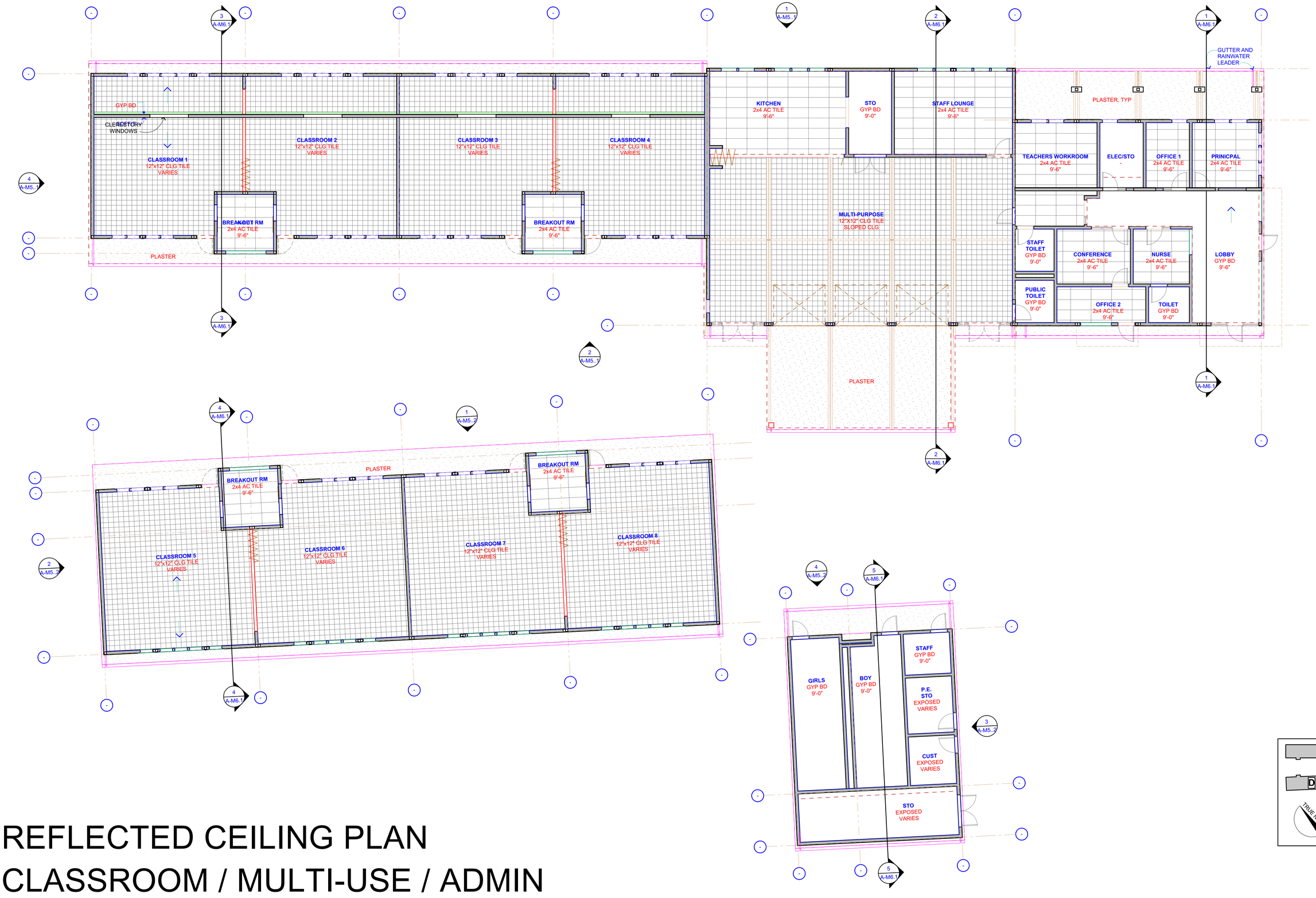
KEYPLAN

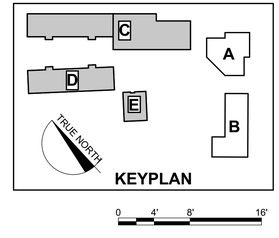
# FLOOR PLAN-CLASSROOMS / MULTI-USE / ADMIN

> LAUREL DELL ELEMENTARY SCHOOL | MAY 15, 2017 | SCHEMATIC DESIGN | 1637.00

A-M2.1

QUATTROCCHI KWOK
ARCHITECTS

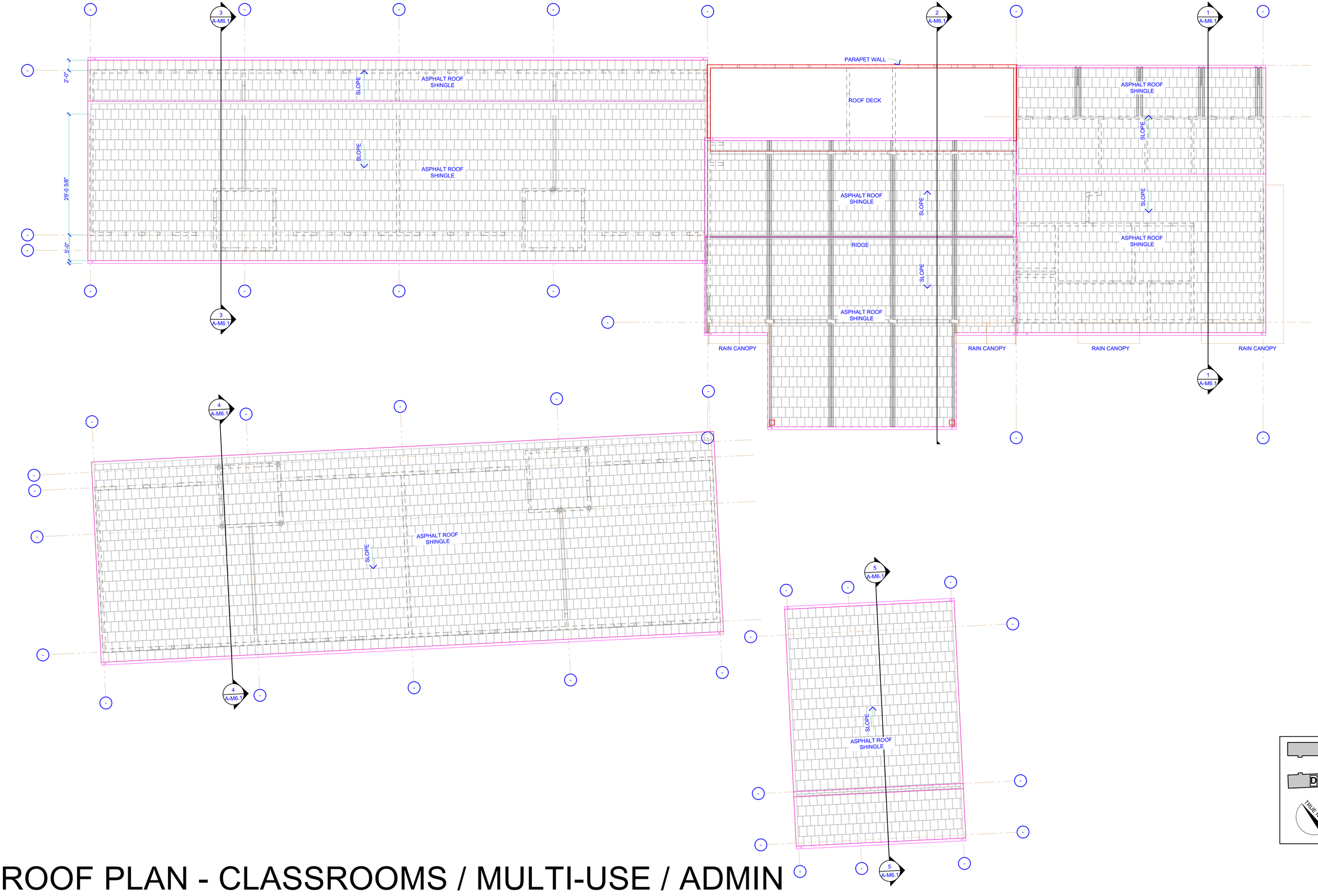


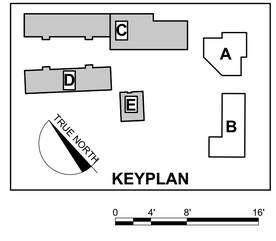




# REFLECTED CEILING PLAN
# CLASSROOM / MULTI-USE / ADMIN

> LAUREL DELL ELEMENTARY SCHOOL | MAY 15, 2017 | SCHEMATIC DESIGN | 1637.00

A-M3..1

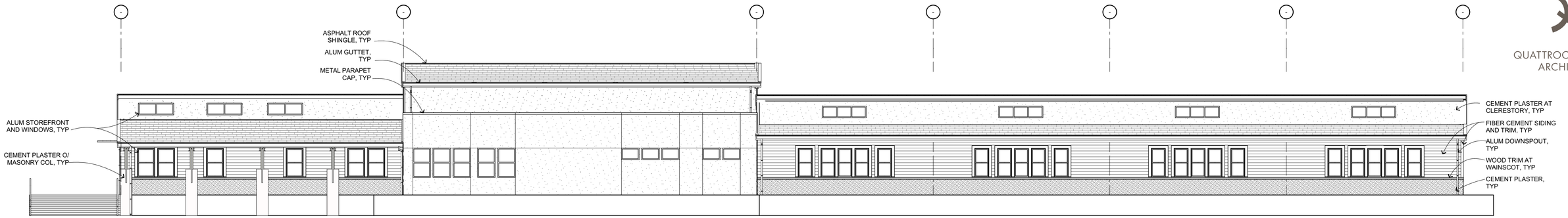



QUATTROCCHI KWOK ARCHITECTS

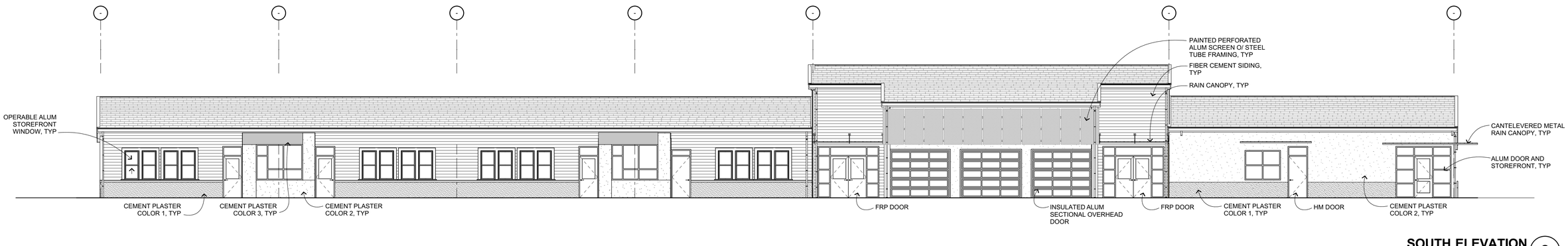
# ROOF PLAN - CLASSROOMS / MULTI-USE / ADMIN

> LAUREL DELL ELEMENTARY SCHOOL | MAY 15, 2017 | SCHEMATIC DESIGN | 1637.00



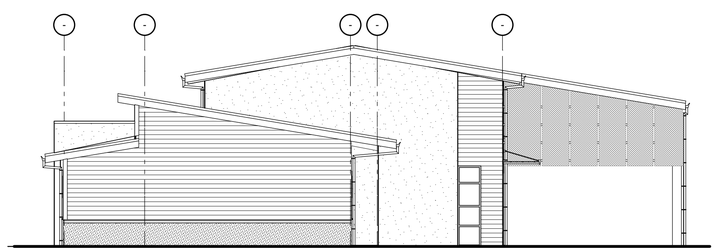

**NORTH ELEVATION** 1

1/8" = 1'-0"



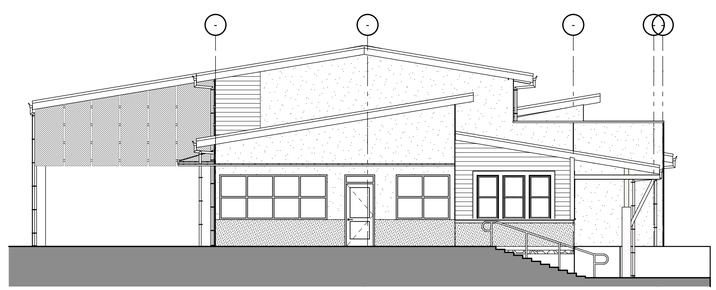

**SOUTH ELEVATION** 2

1/8" = 1'-0"



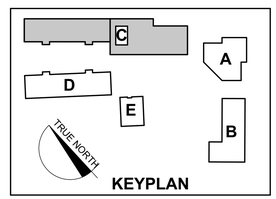
**WEST ELEVATION** 4

1/8" = 1'-0"



**EAST ELEVATION** 3

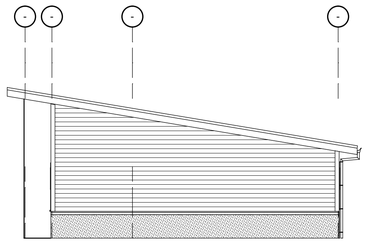
1/8" = 1'-0"



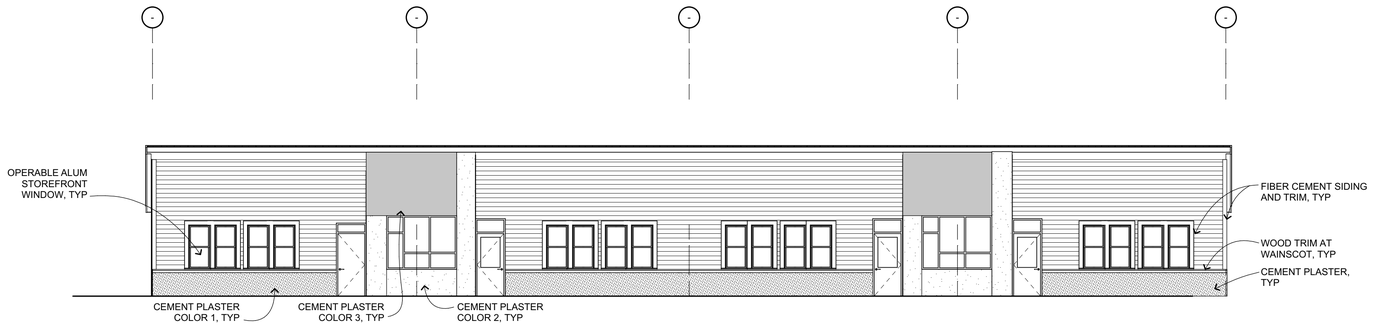

# EXTERIOR ELEVATIONS

> LAUREL DELL ELEMENTARY SCHOOL | MAY 15, 2017 | SCHEMATIC DESIGN | 1637.00

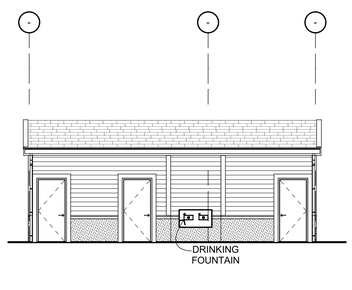
A-M5..1



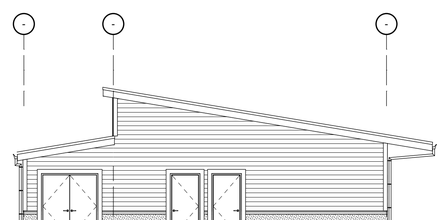
**WEST ELEVATION** 2
1/8" = 1'-0"



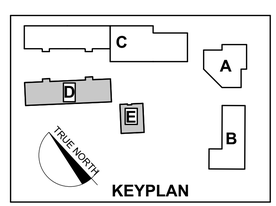

**NORTH ELEVATION** 1
1/8" = 1'-0"




**NORTH ELEVATION AT TOILET** 4
1/8" = 1'-0"



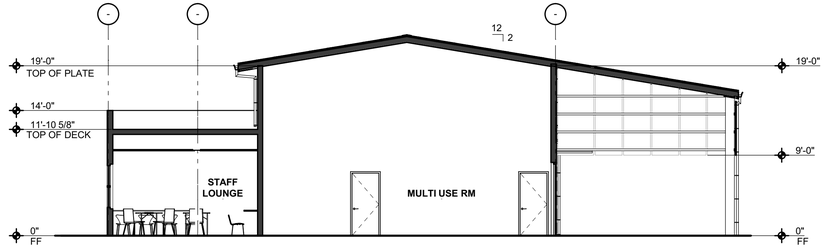
**EAST ELEVATION AT TOILET** 3
1/8" = 1'-0"



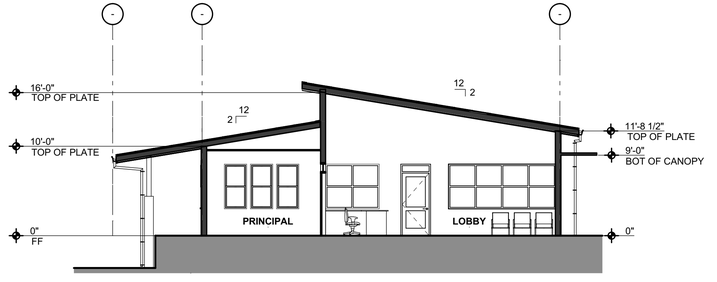

# EXTERIOR ELEVATIONS

> LAUREL DELL ELEMENTARY SCHOOL | MAY 15, 2017 | SCHEMATIC DESIGN | 1637.00

A-M5..2

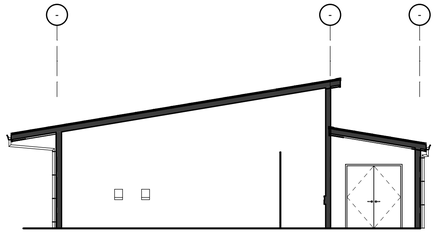



SECTION AT MULTI-USE 2
1/8" = 1'-0"

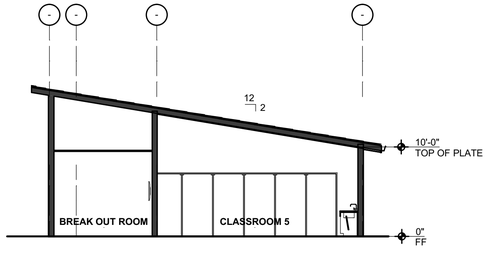



SECTION AT ADMIN 1
1/8" = 1'-0"

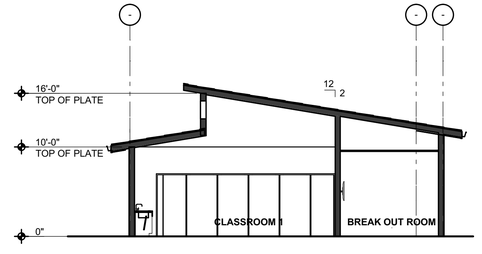
QUATTROCCHI KWOK
ARCHITECTS



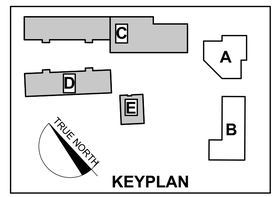
SECTION AT TOILET 5
1/8" = 1'-0"




SECTION AT TYP CLASSROOM 4
1/8" = 1'-0"

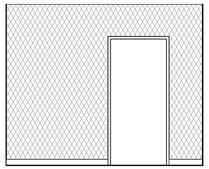



SECTION AT TYP CLASSROOM 3
1/8" = 1'-0"

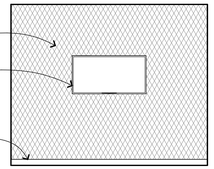



0 4' 8' 16'

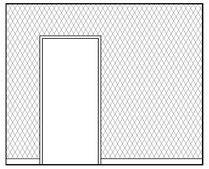
# BUILDING SECTIONS



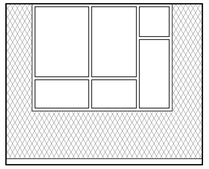
WEST




NORTH



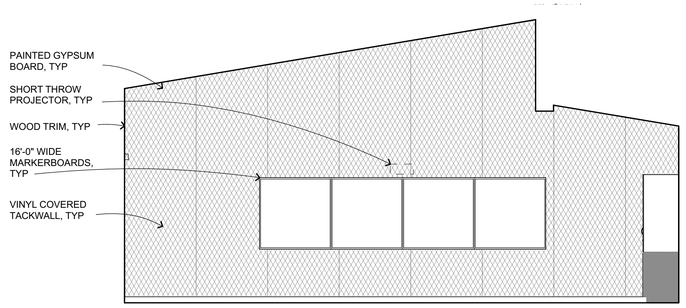
EAST



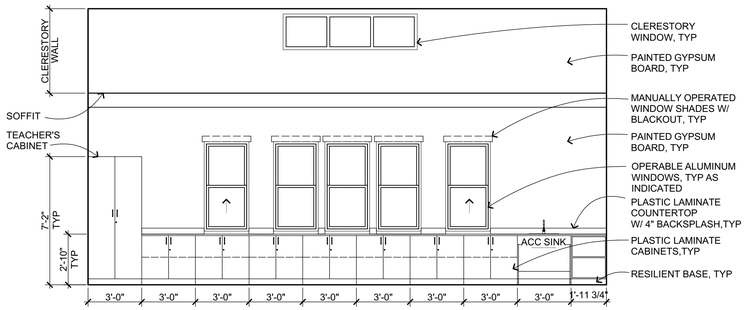
SOUTH

BREAKOUT RM

1/4" = 1'-0" A-M2.1




WEST

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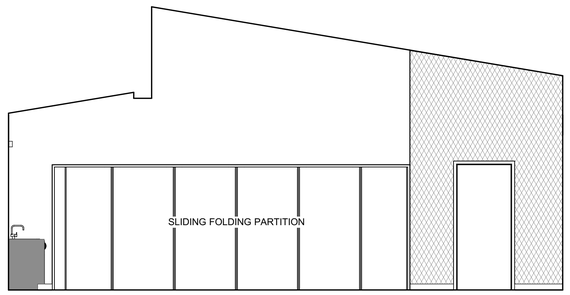


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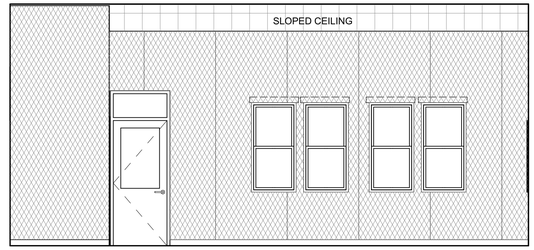
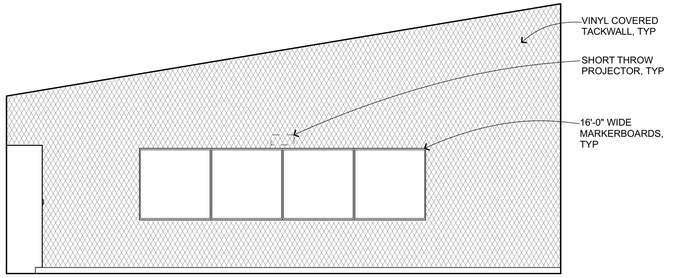



SOUTH

CLASSROOM 1

1/4" = 1'-0" A-M2.1

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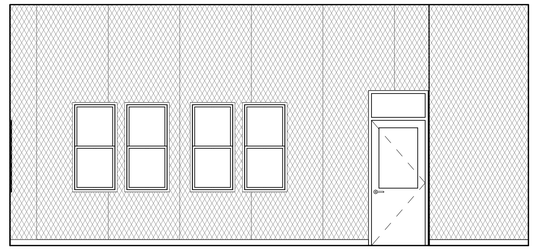
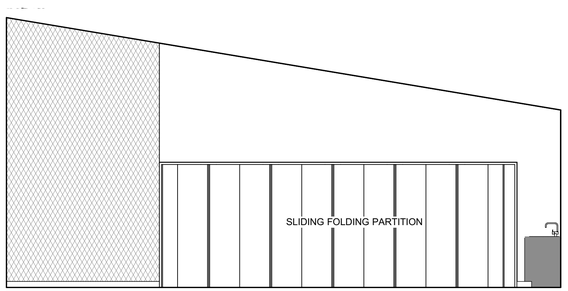


NORTH

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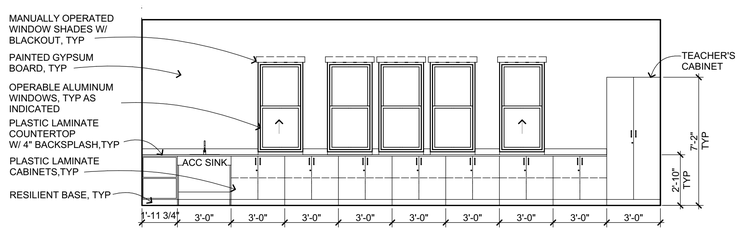
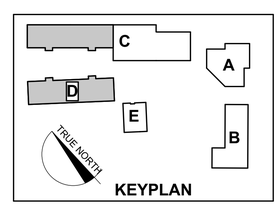



SOUTH

CLASSROM 5

1/4" = 1'-0" A-M2.1

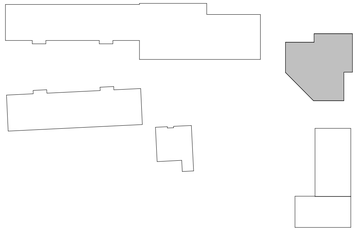



QUATTROCCHI KWOK ARCHITECTS

# INTERIOR ELEVATIONS

> LAUREL DELL ELEMENTARY SCHOOL | MAY 15, 2017 | SCHEMATIC DESIGN | 1637.00

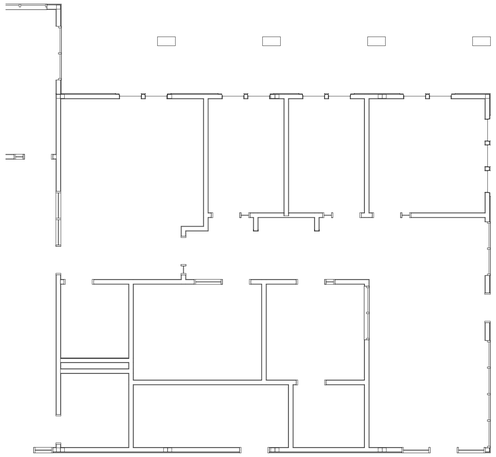
A-M7.1

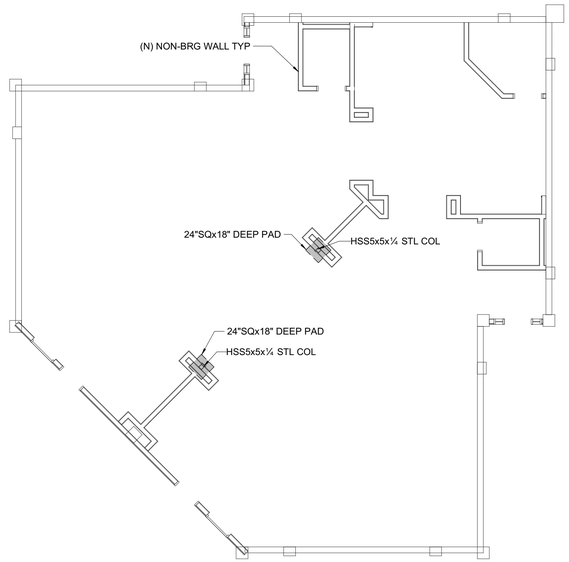


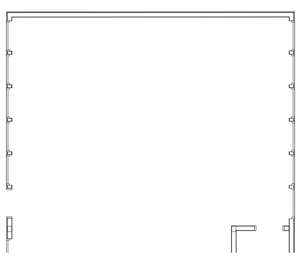
NORTH

KEY PLAN

1/64" = 1'-0"





# FOUNDATION PLAN - KINDERGARTEN

> LAUREL DELL ELEMENTARY SCHOOL | APRIL 4, 2017 | SCHEMATIC DESIGN | 1637.00

QUATTROCCHI KWOK
ARCHITECTS

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santa rosa ca 95404
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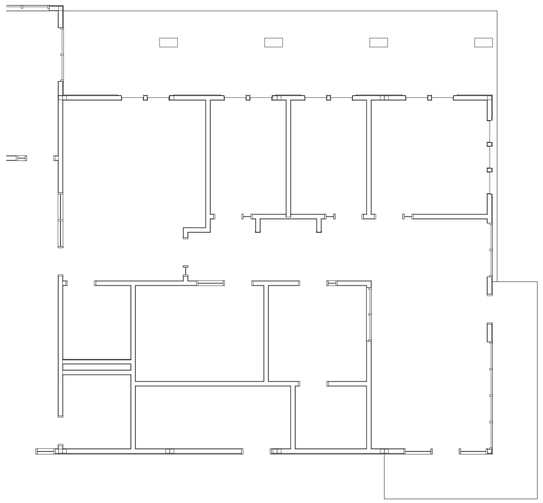
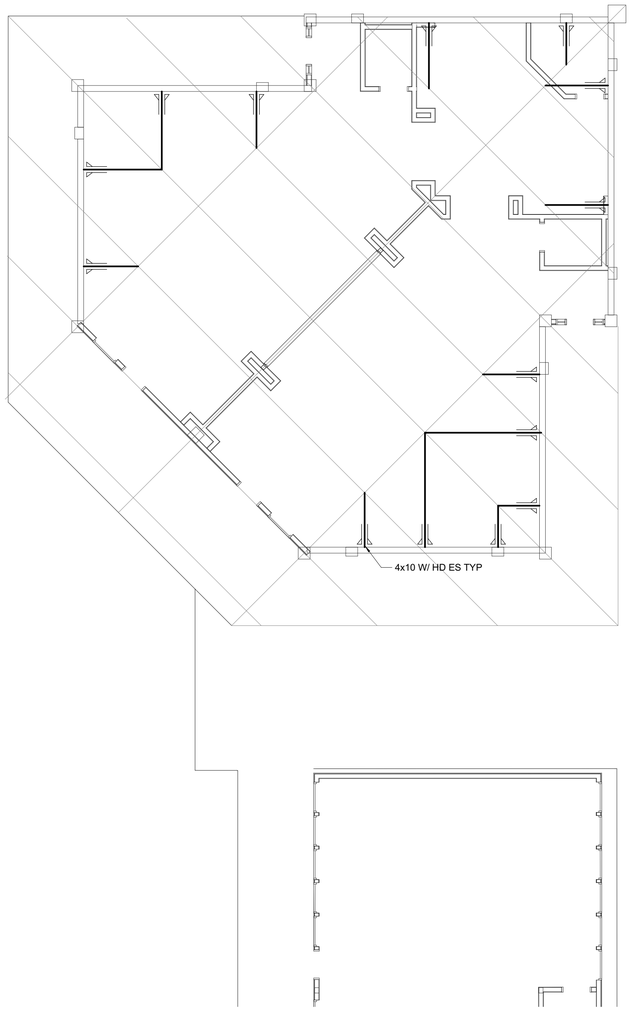
KEY PLAN

1/64" = 1'-0"






# ROOF FRAMING PLAN - KINDERGARTEN

> LAUREL DELL ELEMENTARY SCHOOL | APRIL 4, 2017 | SCHEMATIC DESIGN | 1637.00

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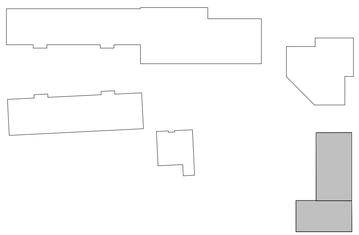
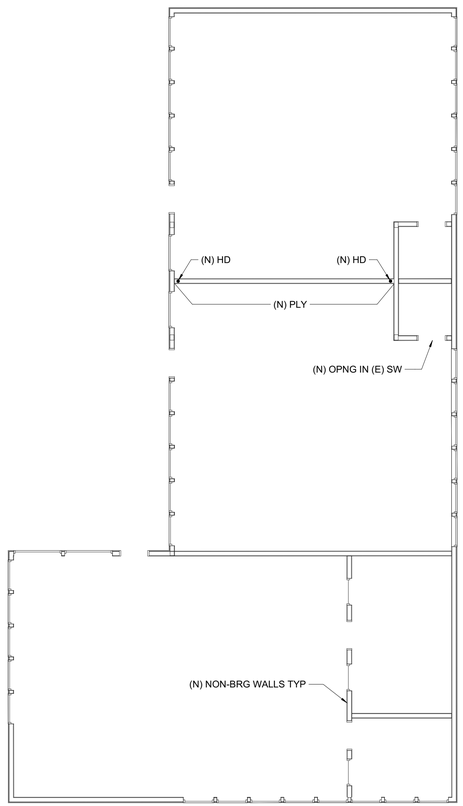


NORTH

KEY PLAN

1/64" = 1'-0"




# FOUNDATION PLAN - CLASSROOMS AND LIBRARY

> LAUREL DELL ELEMENTARY SCHOOL | APRIL 4, 2017 | SCHEMATIC DESIGN | 1637.00

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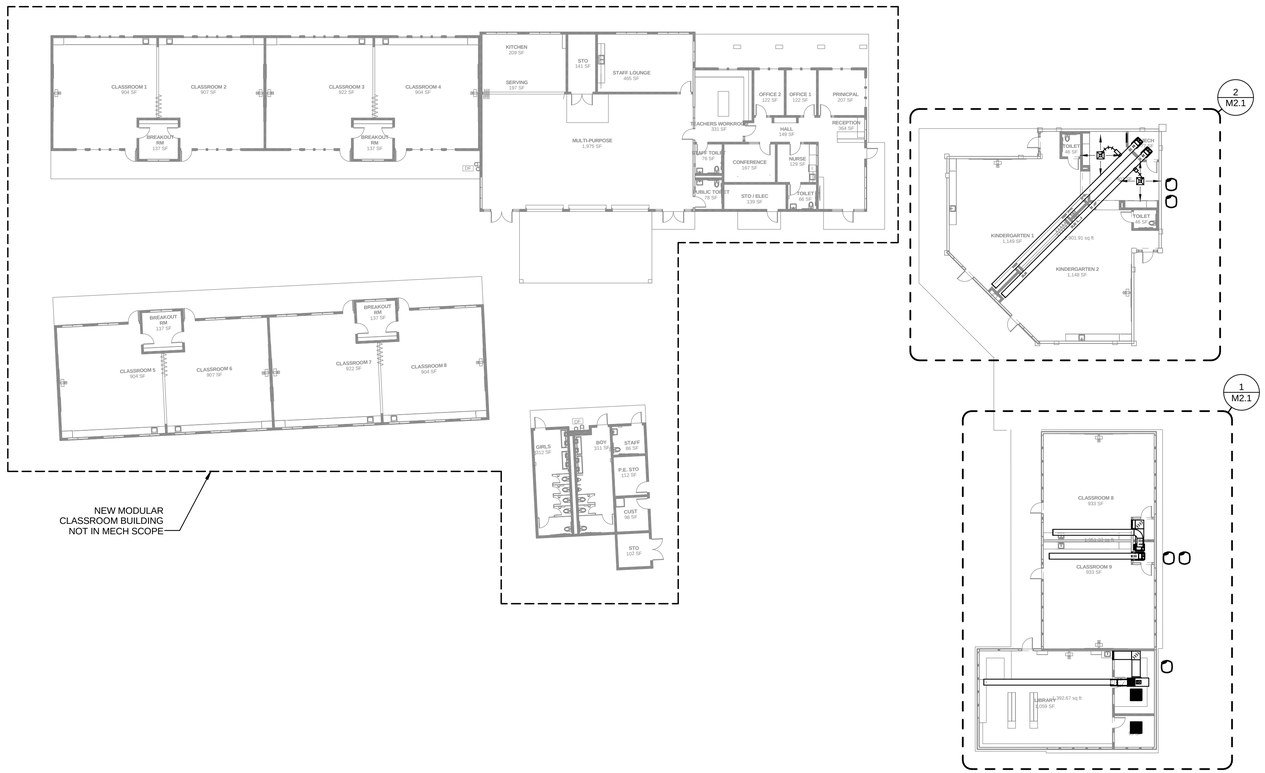


**1 Site Plan**
1" = 20'-0"

# MECHANICAL PLUMBING SITE PLAN

> LAUREL DELL ELEMENTARY SCHOOL |MAY 02, 2017 | SCHEMATIC DESIGN | 1637.00

**MP2.0**

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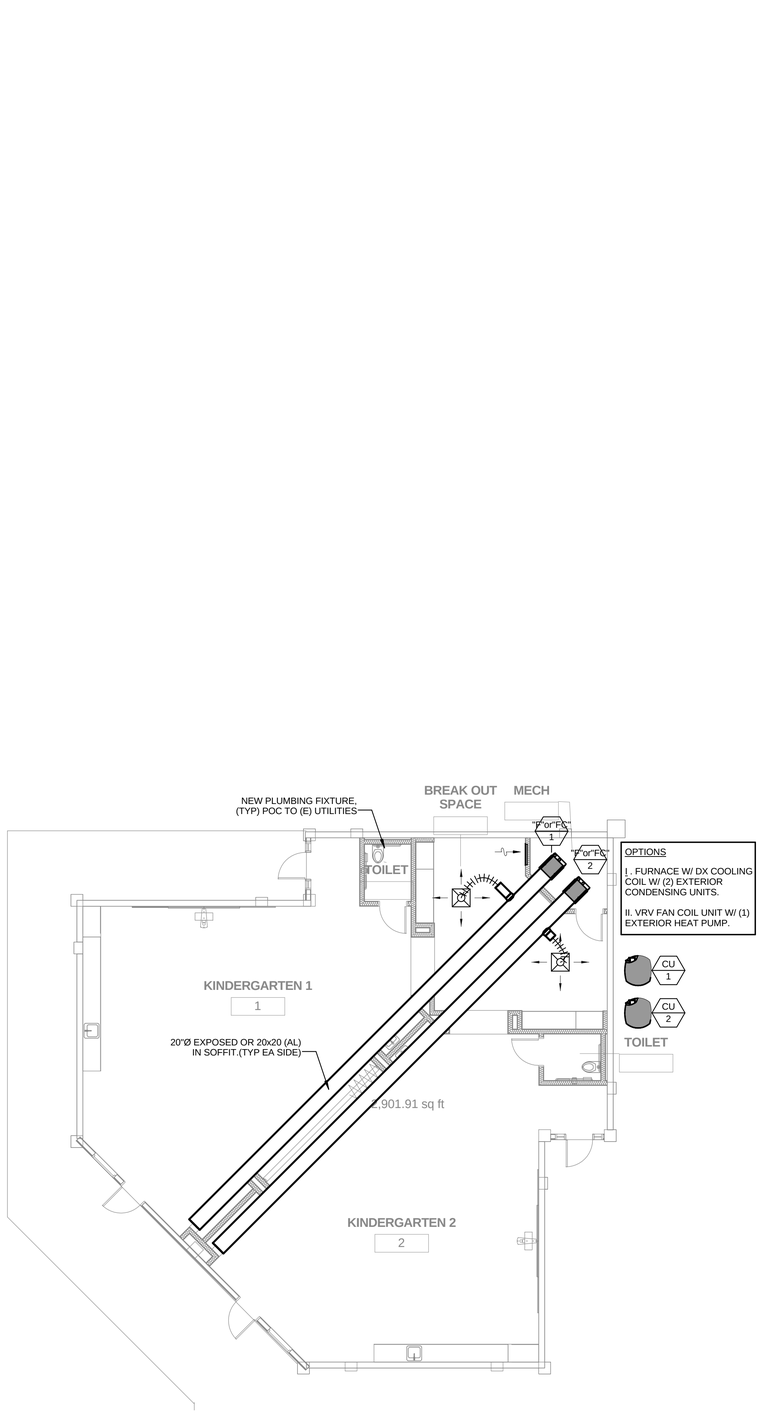
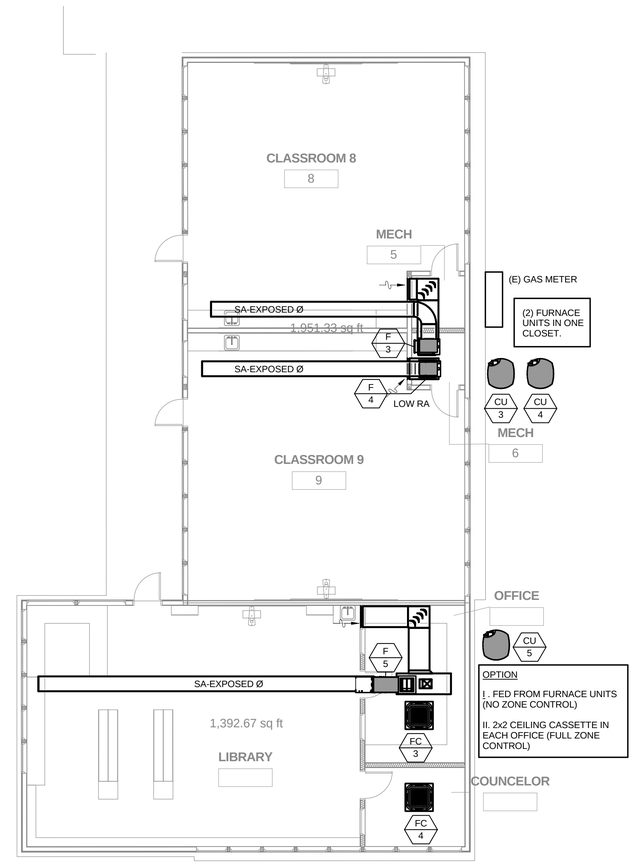



## 2 KINDERGARTEN FLOOR PLAN
1/8" = 1'-0"




## 1 MULTIPURPOSE BLDG FLOOR PLAN
1/8" = 1'-0"

# MECHANICAL FLOOR PLAN

> LAUREL DELL ELEMENTARY SCHOOL |MAY 02, 2017 | SCHEMATIC DESIGN | 1637.00

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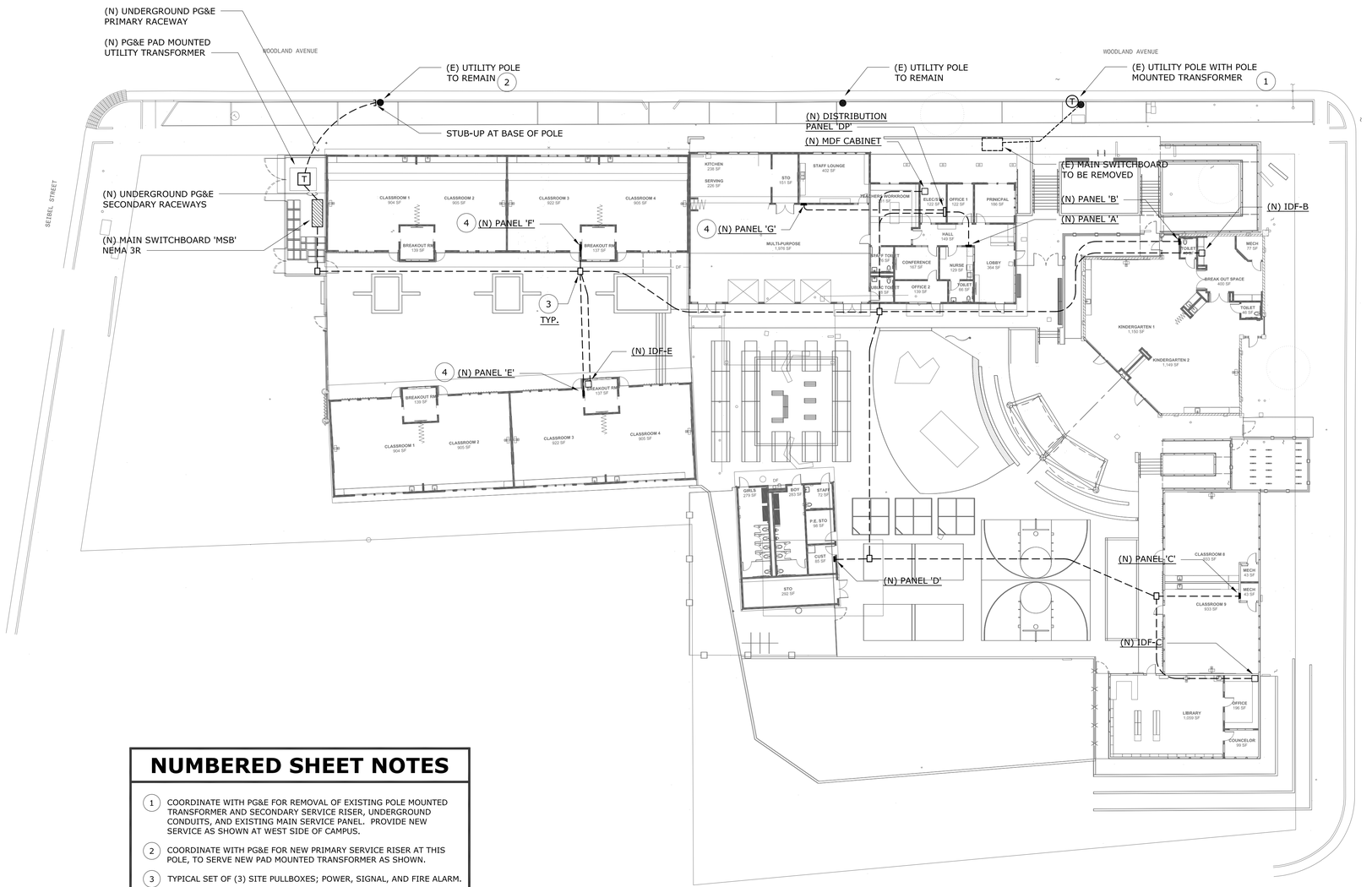
ARCHITECTS

636 FIFTH ST.
SANTA ROSA, CA 95404
(707) 576-0829
(707) 576-0295 FAX




## NUMBERED SHEET NOTES

1. COORDINATE WITH PG&E FOR REMOVAL OF EXISTING POLE MOUNTED TRANSFORMER AND SECONDARY SERVICE RISER, UNDERGROUND CONDUITS, AND EXISTING MAIN SERVICE PANEL. PROVIDE NEW SERVICE AS SHOWN AT WEST SIDE OF CAMPUS.
2. COORDINATE WITH PG&E FOR NEW PRIMARY SERVICE RISER AT THIS POLE, TO SERVE NEW PAD MOUNTED TRANSFORMER AS SHOWN.
3. TYPICAL SET OF (3) SITE PULLBOXES; POWER, SIGNAL, AND FIRE ALARM.
4. TERMINATE TO POWER PANEL TO BE PROVIDED BY MODULAR BUILDING MANUFACTURER. EXACT LOCATION TO BE DETERMINED.

REF. NORTH

SCALE 240 0 240 480
SCALE OF FEET

# SITE PLAN - POWER AND SIGNAL

> LAUREL DELL ELEMENTARY SCHOOL | MAY15, 2017 | SCHEMATIC DESIGN | 1637.00

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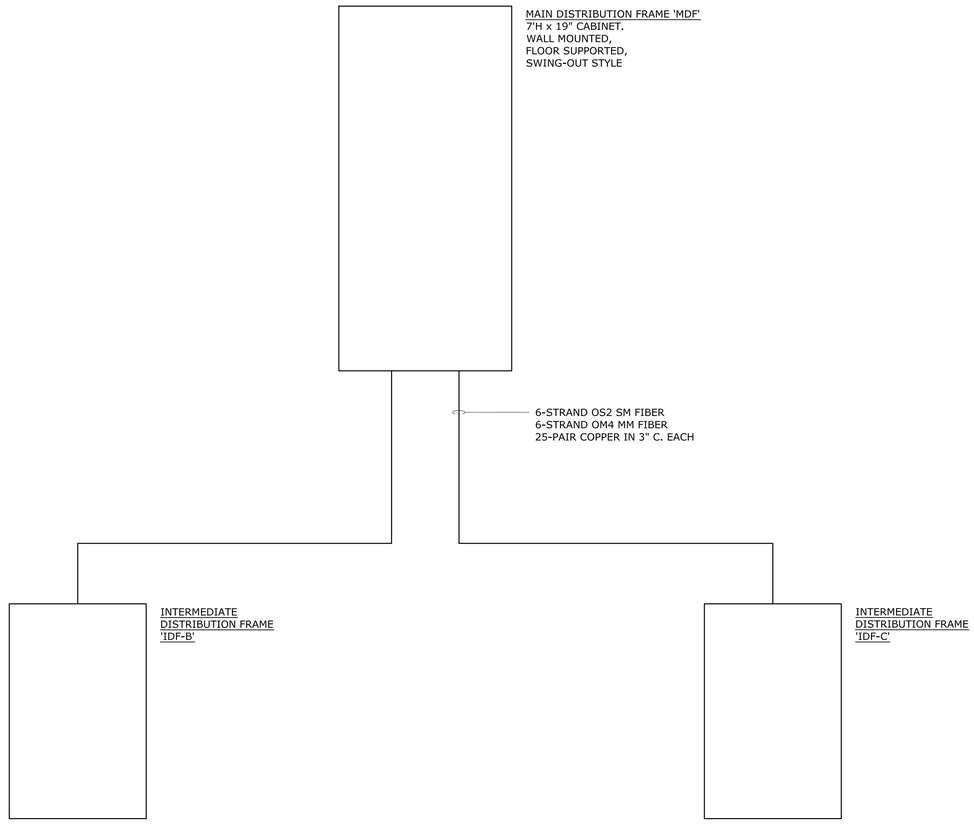
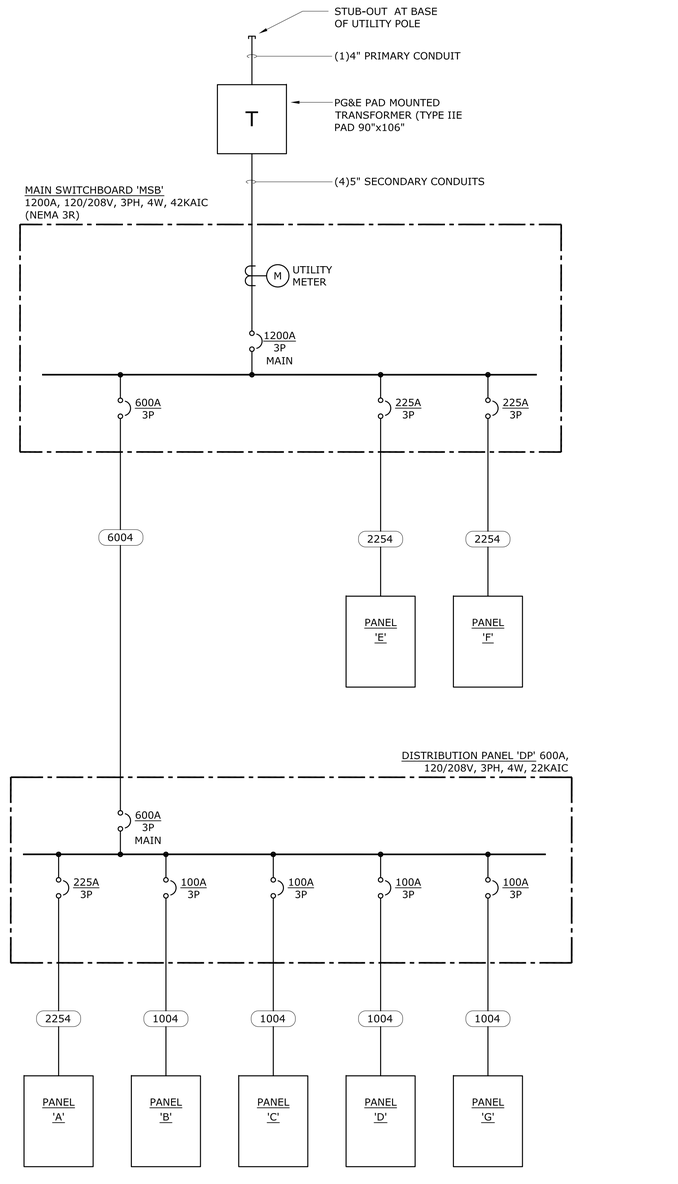
(707) 576-0295 FAX




**TELECOM SINGLE LINE DIAGRAM** 2
SCALE: NONE




**POWER SINGLE LINE DIAGRAM** 1
SCALE: NONE

# SINGLE LINE DIAGRAM - POWER & SIGNAL

> LAUREL DELL ELEMENTARY SCHOOL | MAY 15, 2017 | SCHEMATIC DESIGN | 1637.00

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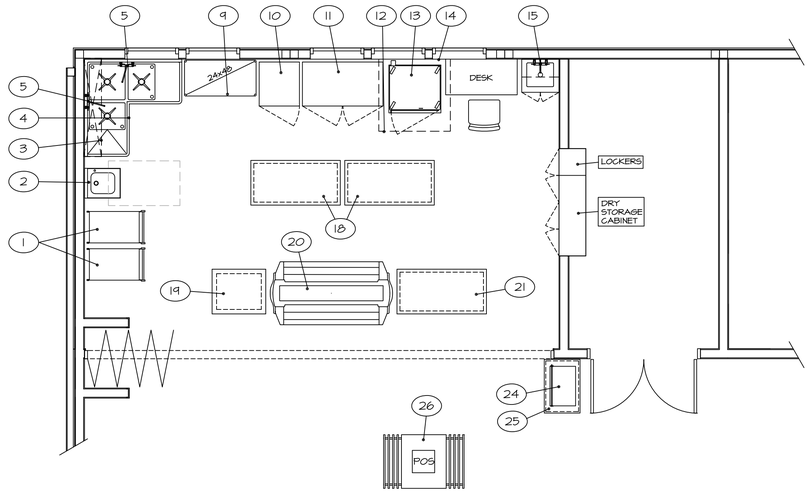
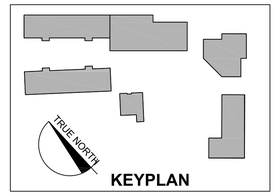
ARCHITECTS

BALLINGER
RESTAURANT EQUIPMENT, INC.
1000 APOLLO WAY, SUITE 170
SANTA ROSA, CA 95407
(707) 544-8924




## EQUIPMENT SCHEDULE

| ITEM | QTY | DESCRIPTION | MANUFACTURER | MODEL | ELECTRICAL | | | | | WATER | | | WASTE | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | | | | | VOLTS | PHASE | AMPS | CONN | HT | HOT | COLD | HT | DIRECT | INDIRECT | HT |
| 1 | 2 | DELIVERY CARTS - BY DISTRICT | TBD | TBD | | | | | | | | | | | |
| 2 | 1 | HAND SINK W/SOAP & TOWEL DISPENSERS | ADVANCE | 7-PS-41 | | | | | | 1/2" | 1/2" | +24" | 1-1/2" | | +20" |
| 3 | 1 | S/S WALL SHELF | ADVANCE | WS-12-66-16 | | | | | | | | | | | |
| 4 | 1 | S/S 3-TUB SINK | SELECT STAINLESS | 3BC1824-2D18 | | | | | | | | | | 1-1/2" | FS |
| 5 | 2 | FAUCETS | T&S BRASS | B-0231 | | | | | | 1/2" | 1/2" | +16" | | | |
| 6 | -- | SPARE | -- | -- | | | | | | | | | | | |
| 7 | -- | SPARE | -- | -- | | | | | | | | | | | |
| 8 | -- | SPARE | -- | -- | | | | | | | | | | | |
| 9 | 1 | WIRE SHELVING UNIT | METRO | SUPERERECTA | | | | | | | | | | | |
| 10 | 1 | 1-DOOR FREEZER | TRUE | T-23F-HC | 115 | 1 | 5.5 | PLUG | +15" | | | | | | |
| 11 | 1 | 2-DOOR REFRIGERATOR | TRUE | T-49-HC | 115 | 1 | 5.4 | PLUG | +15" | | | | | | |
| 12 | 1 | S/S TYPE II HOOD | CAPTIVE-AIRE | XXX | 115 | 1 | 2.0 | JBOX | +110" | | | | | | |
| 13 | 1 | RETERM CABINET | CRES-COR | RF-151-F-1332DE | 208 | 3 | 50.0 | JBOX | +15" | | | | | | |
| 14 | 1 | S/S WALL LINER | CUSTOM | CUSTOM | | | | | | | | | | | |
| 15 | 1 | MOP SINK CABINET | EAGLE | F1916-V5C5 | | | | | | 1/2" | 1/2" | +36" | 2" | | +0" |
| 16 | -- | SPARE | -- | -- | | | | | | | | | | | |
| 17 | -- | SPARE | -- | -- | | | | | | | | | | | |
| 18 | 2 | MOBILE WORKTABLES | SELECT STAINLESS | SSU-30 | | | | | | | | | | | |
| 19 | 1 | MOBILE SERVING COUNTER | SELECT STAINLESS | SSU-30 | | | | | | | | | | | |
| 20 | 1 | SALAD BAR | CAMBRO | VBR6110 | | | | | | | | | | | |
| 21 | 1 | MOBILE SERVING COUNTER | SELECT STAINLESS | SSU-30 | | | | | | | | | | | |
| 22 | -- | SPARE | -- | -- | | | | | | | | | | | |
| 23 | -- | SPARE | -- | -- | | | | | | | | | | | |
| 24 | 1 | MILK DISPENSER | SILVER KING | SKMAJ2/C3 | 115 | 1 | 1.4 | PLUG | +15" | | | | | | |
| 25 | 1 | MOBILE TABLE FOR MILK DISPENSER | SELECT STAINLESS | SSU-30 | | | | | | | | | | | |
| 26 | 1 | POS STATION | VOLLRATH | 38700 | VERIFY POS REQUIREMENTS | | | | | | | | | | |




# FOODSERVICE EQUIPMENT FLOOR PLAN

> LAUREL DELL ELEMENTARY SCHOOL | MAY 02, 2017 | SCHEMATIC DESIGN | 1637.00

# SRCS VENETIA VALLEY K-8
# CLASSROOM REPLACEMENT AND NEW MPR BUILDING

**177 N San Pedro Rd, San Rafael, CA 94903**

## DESIGN DEVELOPMENT SET
08/18/2017

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**DATE ISSUED:** 2017 - 40104

**PROJECT NO:** 08/18/2017

**SCALE:**

**SHEET NUMBER:**

# GEN-00

**SHEET TITLE:**

## COVER SHEET

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P: 310.295.7313

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28TH FLOOR
SAN FRANCISCO, CA 94105
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P: 510.267.3180

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**CIVIL**
**BKF ENGINEERS**
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SAN RAFAEL, CA 94903
CONTACT: DAN ZAICH
P: 415.492.3200

SVA ARCHITECTS

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| Sheet List | | |
|---|---|---|
| Sheet Number | Sheet Name | Designed By |
| A-01.0 | SITE PLAN- DEMOLITION | 03 |
| A-02.1 | SITE PLAN- END OF PHASE 2 | 03 |
| A-11.11 | FIRST FLR PLAN - BLDG E2, E3 | 03 |
| A-11.12 | FIRST FLR PLAN - BLDG D, E1 | 03 |
| A-11.21 | SECOND FLR PLAN - BLDG E2, E3 | 03 |
| A-11.22 | SECOND FLR PLAN - BLDG D, E1 | 03 |
| A-12.11 | FIRST FLR SLAB PLAN - BLDG E2, E3 | 03 |
| A-12.12 | FIRST FLR SLAB PLAN - BLDG D, E1 | 03 |
| A-12.21 | SECOND FLR SLAB PLAN - BLDG E2, E3 | 03 |
| A-12.22 | SECOND FLR SLAB PLAN - BLDG D, E1 | 03 |
| A-13.11 | FIRST FLR LAYOUT PLAN - BLDG E2, E3 | 03 |
| A-13.12 | FIRST FLR LAYOUT PLAN - BLDG D, E1 | 03 |
| A-13.21 | SECOND FLR LAYOUT PLAN - BLDG E2, E3 | 03 |
| A-13.22 | SECOND FLR LAYOUT PLAN - BLDG D, E1 | 03 |
| A-13.31 | LAYOUT PLAN - BLDG D, E1 ( ROOF WELLS) | 03 |
| A-13.322 | LAYOUT PLAN - BLDG E1, E2 ( ROOF WELLS) | 03 |
| A-13.323 | Unnamed | 03 |
| A-14.11 | FIRST FLR RCP - BLDG E3, E2 | 03 |
| A-14.12 | FIRST FLR RCP - BLDG D, E1 | 03 |
| A-14.21 | SECOND FLR RCP - BLDG E3, E2 | 03 |
| A-14.22 | SECOND FLR RCP - BLDG D, E1 | 03 |
| A-15.1 | ROOF PLAN - BLDG E3, E2 | 03 |
| A-15.2 | ROOF PLAN - BLDG D, E1 | 03 |
| A-21.1 | BUILDING ELEVATIONS- BLDG D | 03 |
| A-21.2 | BUILDING ELEVATIONS -BLDG E1, E2 | 03 |
| A-21.3 | BUILDING ELEVATIONS -BLDG E3 | 03 |
| A-31.1 | BUILDING SECTIONS - BLDG D | 03 |
| A-31.2 | BUILDING SECTION- BLDG E | 03 |
| A-31.3 | BUILDING SECTIONS- BLDG E | 03 |
| A-41.1 | ENLARGED PLANS- TYP CLASSROOMS | 03 |
| A-41.2 | ENLARGED PLAN- TYPICAL ROOMS | 03 |
| A-41.3 | ENLARGED ROOMS - FLEX/STEM | 03 |
| A-41.6 | ENLARGED PLANS- RESTROOMS | 03 |
| A-41.7 | ENLARGED PLANS - RESTROOMS | 03 |
| A-50.0 | ROOM FINISH SCHEDULE | 03 |
| A-52.1 | SCHEDULE - DOOR | 03 |
| A-53.1 | SCHEDULE - STOREFRONT AND WINDOW | 03 |
| A-60.1 | TYPICAL EXTERIOR WALL TYPES | 03 |
| A-61.1 | TYPICAL INTERIOR PARTITIONS | 03 |
| GEN-00 | COVER SHEET | 00 |
| GEN-01 | SHEET INDEX | 00 |
| GEN-10.0 | 3D VIEWS (FOR REFERENCE ONLY) | 00 |
| GEN-10.1 | OVERALL PLANS - BUILDINGS D AND E | 00 |
| GEN-10.2 | BUILDING ELEVATIONS/ SECTIONS - OVERALL | 00 |
| GEN-10.4 | CONSTRUCTION PHASING | 00 |
| GEN-11 | CODE COMPLIANCE- EXISTING CONDITIONS | 00 |
| GEN-12 | CODE COMPLIANCE - FRONTAGE DIM, SITE EGRESS | 03 |
| GEN-13.1 | CODE COMPLIANCE - OCCUPANT LOAD CALCS | 00 |
| GEN-13.2 | CODE COMPLIANCE - OCCUPANT LOAD CALCS | 00 |
| GEN-14 | CODE COMPLIANCE - PLUMBING | 00 |

**OWNER:** SRCS VENETIA VALLEY K-8

**PROJECT NAME:** CLASSROOM REPLACEMENT AND NEW MPR BUILDING

**CLIENT ADDRESS:** 177 N San Pedro Rd, San Rafael, CA 94903

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**DATE ISSUED:** 08/18/2017

**PROJECT NO:** 2017 - 40104

**SCALE:**

**SHEET NUMBER:**

# GEN-01

**SHEET TITLE:**

# SHEET INDEX

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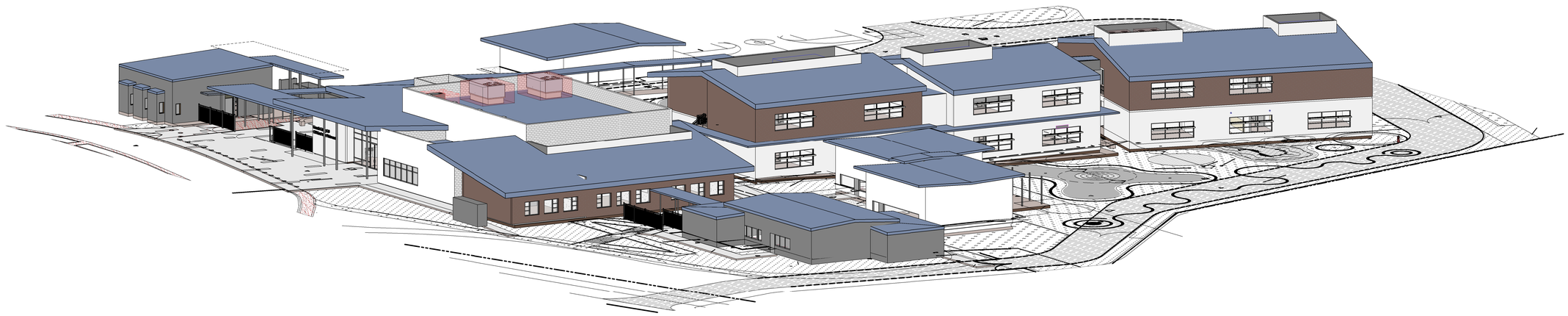
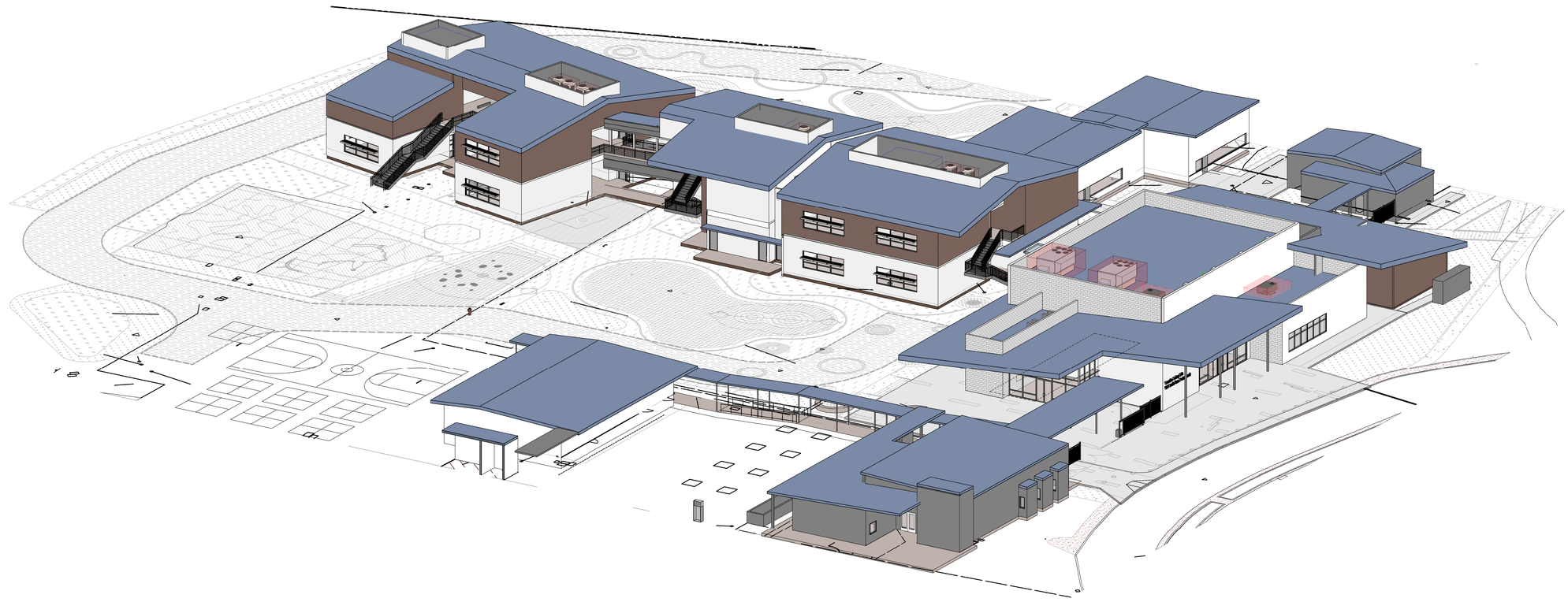


1 3D VIEW- OVERALL 1



3 3D VIEW- OVERALL 2

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**PROJECT NAME:** CLASSROOM REPLACEMENT AND NEW MPR BUILDING

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**3D VIEWS (FOR REFERENCE ONLY)**

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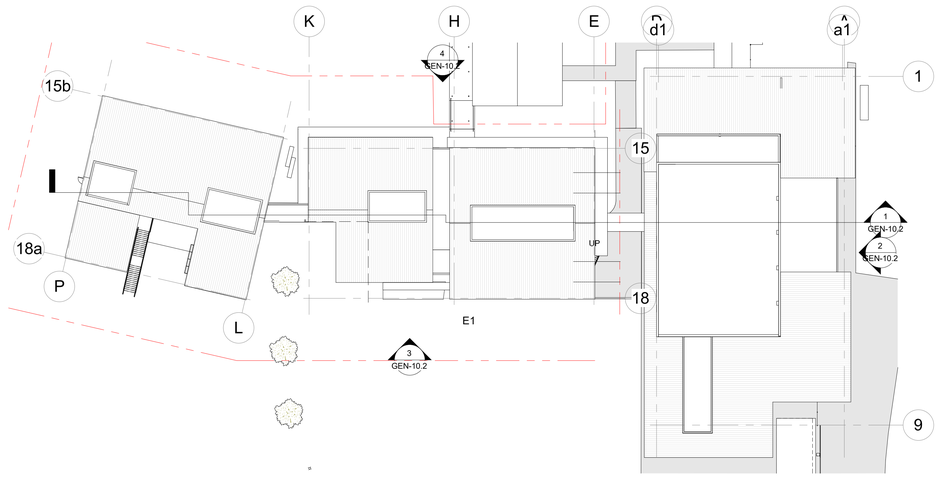
## 1 OVERALL FLOOR PLAN - Level 1

1" = 30'-0"

## 2 OVERALL FLOOR PLAN - Level 2

1" = 30'-0"




## 3 OVERALL ROOF PLAN - Level 3

1" = 30'-0"

8/22/2017 11:40:45 PM
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**OWNER:** SRCS VENETIA VALLEY K-8

**PROJECT NAME:** CLASSROOM REPLACEMENT AND NEW MPR BUILDING

**CLIENT ADDRESS:** 177 N San Pedro Rd, San Rafael, CA 94903

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**KEYPLAN:**

**DATE ISSUED:** 08/18/2017

**PROJECT NO:** 2017 - 40104

**SCALE:** 1" = 30'-0"

**SHEET NUMBER:**

**GEN-10.1**

**SHEET TITLE:**

**OVERALL PLANS - BUILDINGS D AND E**

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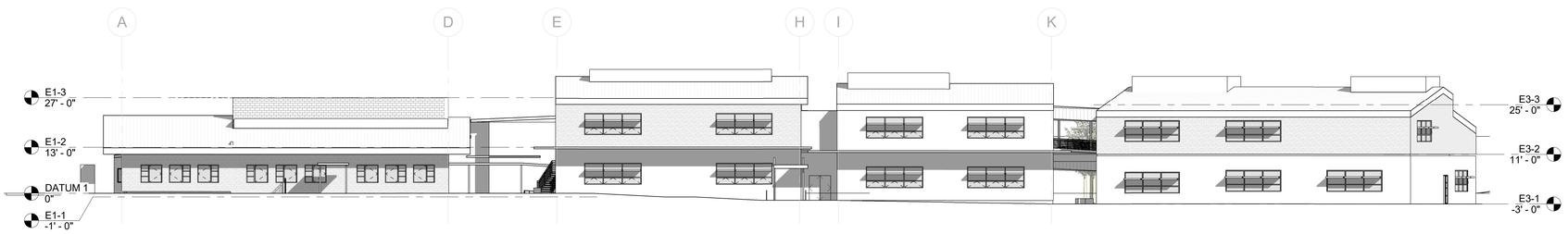
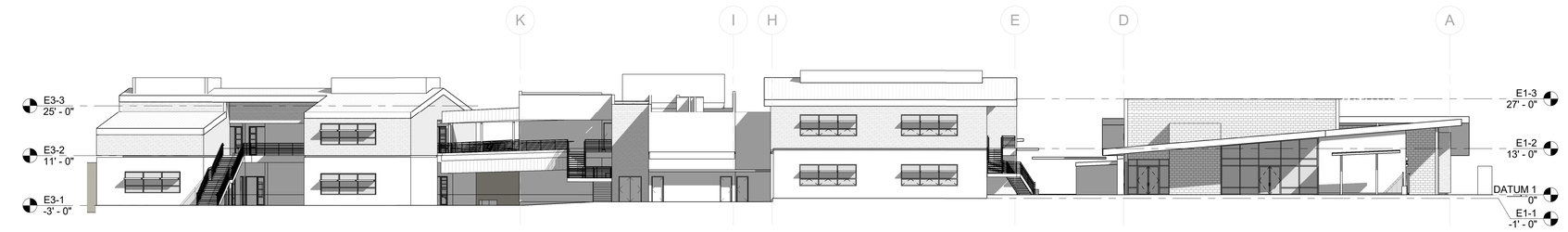
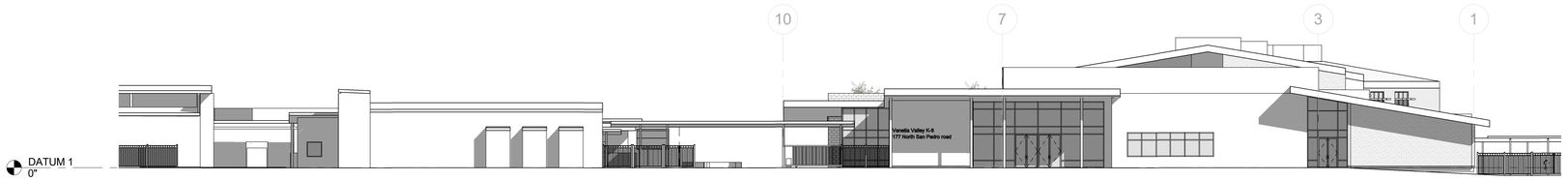


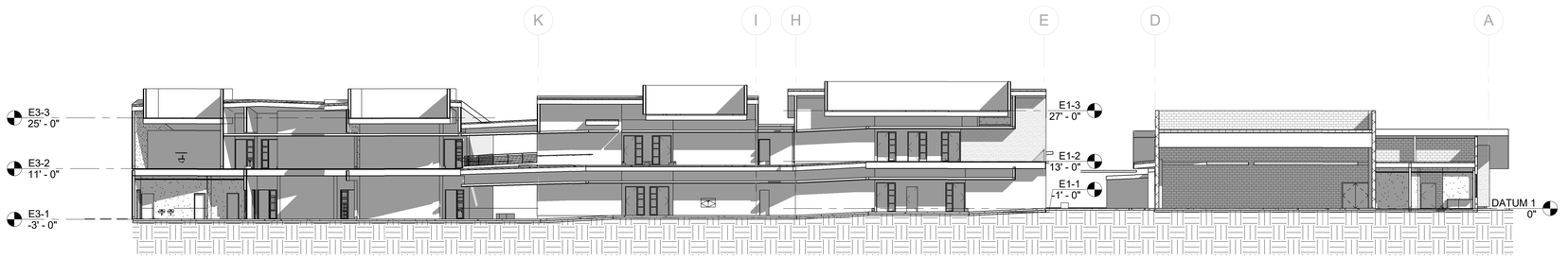

**OVERALL BUILDING ELEVATION - NORTH** 1/16" = 1'-0" **4**




**OVERALL BUILDING ELEVATION - SOUTH** 1/16" = 1'-0" **3**




**OVERALL BUILDING ELEVATION -EAST** 1/16" = 1'-0" **2**




**LONGITUDINAL BUILDING SECTION- BUILDING D AND E Copy 1** 1/16" = 1'-0" **1**

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**OWNER:** SRCS VENETIA VALLEY K-8

**PROJECT NAME:** CLASSROOM REPLACEMENT AND NEW MPR BUILDING

**CLIENT ADDRESS:** 177 N San Pedro Rd, San Rafael, CA 94903

DESIGN DEVELOPMENT SET

**SEAL:**

**REVISIONS:**

| | DESCRIPTION | DATE |
|---|---|---|
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**KEYPLAN:**

**DATE ISSUED:** 08/18/2017

**PROJECT NO:** 2017 - 40104

**SCALE:** 1/16" = 1'-0"

**SHEET NUMBER:**

# GEN-10.2

**SHEET TITLE:**

# BUILDING ELEVATIONS/ SECTIONS - OVERALL

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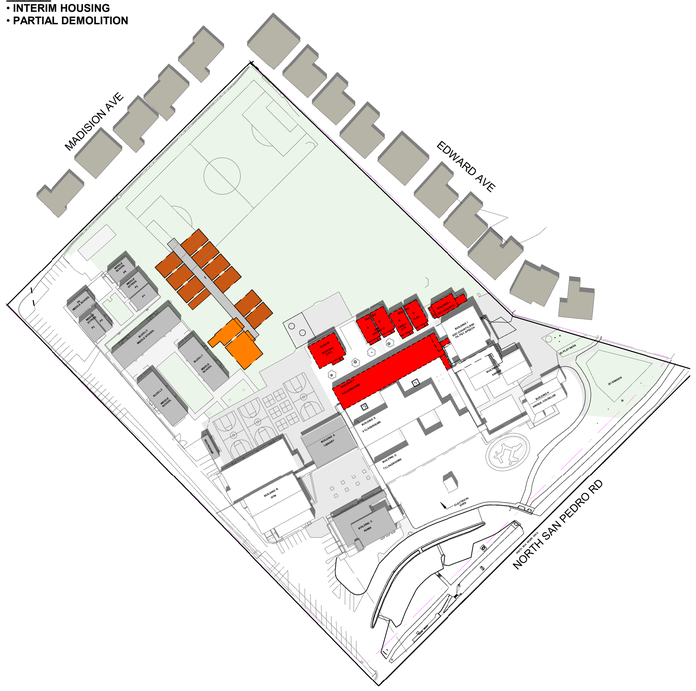
# PHASE 1a

**DEMOLITION**

**2018 Q1:**
- INTERIM HOUSING
- PARTIAL DEMOLITION




# PHASE 1b

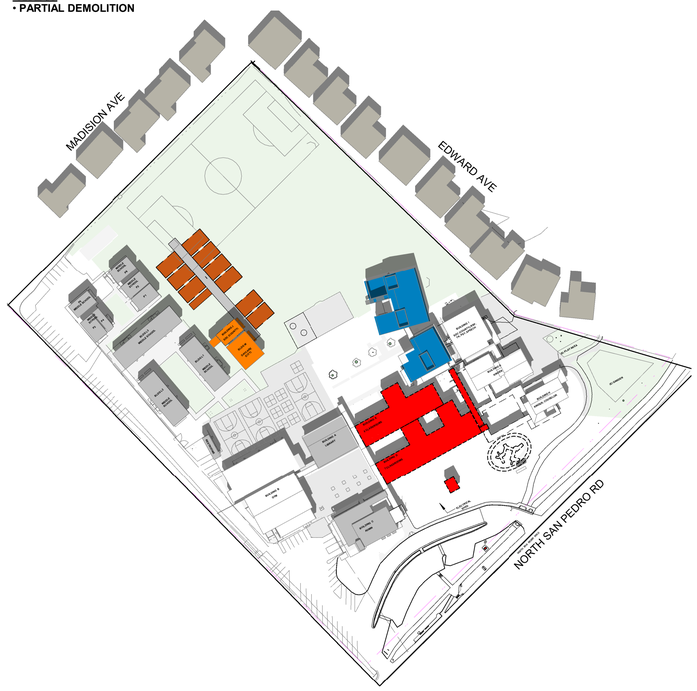
**NEW CONSTRUCTION**

**2018 Q1 - Q2:**
- RELOCATE PORTABLES
- PHASE 1 NEW CONSTRUCTION- PARTIAL CLASSROOM BUILDING

# PHASE 2a

**DEMOLITION**

**2018 Q3:**
- PARTIAL DEMOLITION




# PHASE 2b

**NEW CONSTRUCTION**

**2018 Q3 - Q4:**
- COMPLETE NEW BUILDING CONSTRUCTION

# PHASE 3a

**DEMOLITION**

**2019 Q1:**
REMOVE INTERIM HOUSING
PARTIAL DEMOLITION
PARTIAL SITE DEMOLITION

# PHASE 3b

**NEW CONSTRUCTION**

**2019 Q1 - Q2:**
- SITE LANDSCAPE
- CAMPUS DROP-OFF MODIFICATION
- MODERNIZATION OF EXISTING GYM AND KINDERGARTEN

TN
PIN

**OWNER:** SRCS VENETIA VALLEY K-8

**PROJECT NAME:** CLASSROOM REPLACEMENT AND NEW MPR BUILDING

**CLIENT ADDRESS:** 177 N San Pedro Rd, San Rafael, CA 94903

DESIGN DEVELOPMENT SET

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**KEYPLAN:**

**DATE ISSUED:** 08/18/2017

**PROJECT NO:** 2017 - 40104

**SCALE:** 1" = 100'-0"

**SHEET NUMBER:**

**GEN-10.4**

**SHEET TITLE:**

**CONSTRUCTION PHASING**

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## 1 CODE COMPLIANCE- EXISTING CONDITIONS
1" = 40'-0"

**CODE SUMMARY ( EXISTING BUILDINGS)**

| | FUNCTION | PHASING | SCOPE OF WORK | OCCUPANCY GROUP | CONSTRUC-TION TYPE | SPRINK-LERED? | # OF STORIES | ALLOWABLE AREA SF *a | ACTUAL AREA (SF)*b | COMMENTS |
|---|---|---|---|---|---|---|---|---|---|---|
| BUILDING A | LIBRARY | (E) | MINOR- INSTALL WALL MTD IDF EQUIPMENT | A3 | V-B | NO | 1 | 6,000 | 3,258 | CONSTRUCT PHASE 1 |
| BUILDING B | GYM | (E) | TO BE MODERNIZED (NOT IN SCOPE) | A3 | V-A | NO | 1 | 6,000 | 13,626* | CONSTRUCT PHASE 3 |
| BUILDING C | ADMIN | (E) | ALTERATION- NEW STOREFRONT | B | V-B | NO | 1 | 9,000 | 3,402 | CONSTRUCT PHASE 1 |
| BUILDING D | CLASSROOMS | (E) | TO BE DEMOLISHED | E | V-B | NO | 1 | 9,500 | 7,963 | |
| BUILDING E | CLASSROOMS | (E) | TO BE DEMOLISHED | E | V-B | NO | 1 | 9,500 | 6,471 | |
| BUILDING F | CLASSROOMS | (E) | TO BE DEMOLISHED | E | V-B | NO | 1 | 9,500 | 5,282 | |
| BUILDING G | CLASSROOMS | (E) | TO BE MODERNIZED (NOT IN SCOPE) | E | V-B | NO | 1 | 9,500 | 7,963 | CONSTRUCT PHASE 3 |
| BUILDING H | CLASSROOMS | (E) | TO BE MODERNIZED (NOT IN SCOPE) | E | V-B | NO | 1 | 9,500 | 3,219 | CONSTRUCT PHASE 3 |
| BUILDING I | CLASSROOMS | (E) | TO BE DEMOLISHED | E | V-B | NO | 1 | 9,500 | 4,768 | CONSTRUCT PHASE 1 |
| BUILDING J | CLASSROOMS (PORTABLE) | (E) | RELOCATE | E | V-B | NO | 1 | 9,500 | 1,920 | CONSTRUCT PHASE 1 |
| BUILDING K | RESTROOM (PORTABLE) | (E) | - | E | V-B | NO | 1 | 9,500 | 540 | |
| BUILDING L1-3 | CLASSROOMS (PORTABLE) | (E) | - | E | V-B | NO | 1 | 9,500 | 9,600* | |
| BUILDING M | CLASSROOMS (PORTABLE) | (E) | RELOCATE | E | V-B | NO | 1 | 9,500 | 1,920 | CONSTRUCT PHASE 1 |
| BUILDING N | CLASSROOMS (PORTABLE) | (E) | RELOCATE | E | V-B | NO | 1 | 9,500 | 960 | CONSTRUCT PHASE 1 |
| BUILDING O | CLASSROOMS (PORTABLE) | (E) | RELOCATE | E | V-B | NO | 1 | 9,500 | 960 | CONSTRUCT PHASE 1 |
| BUILDING P1-4 | CLASSROOMS (PORTABLE) | (E) | - | E | V-B | NO | 1 | 9,500 | 4,220 | |
| BUILDING P5-6 | CLASSROOMS (PORTABLE) | (E) | - | E | V-B | NO | 1 | 9,500 | | |
| PARKING/ DROP-OFF | | (E) | TO BE MODIFIED (NOT IN SCOPE) | | | | | | | CONSTRUCT PHASE 3 |

*a ALLOWABLE AREA PER CBC 2016, CHAPTER 5
*b ACTUAL AREA IS CODE COMPLIANT PER ORIGINAL DSA PERMIT.

**EXISTING DSA APPLICATION HISTORY**

| | | | |
|---|---|---|---|
| BUILDING A | APPL # 105957 | closed out 11/30/2016 | |
| | APPL # 26987 | closed out / / | |
| BUILDING B | APPL # 18374 | closed out / / | |
| | APPL # 26987 | closed out / / | |
| | APPL # 34077 | closed out / / | |
| | APPL # 34652 | closed out / / | |
| | APPL # 01-105957 | closed out 11/30/2016 | |
| BUILDING C | APPL # 8426 | closed out / / | |
| | APPL # 34077 | closed out / / | |
| | APPL # 01-105957 | closed out 11/30/2016 | |
| BUILDING D | APPL # 9426 | closed out / / | ( TO BE DEMOLISHED) |
| | APPL # 34077 | closed out / / | |
| | APPL # 01-105957 | closed out 11/30/2016 | |
| BUILDING E | APPL # 8426 | closed out / / | ( TO BE DEMOLISHED) |
| | APPL # 34652 | closed out / / | |
| BUILDING F | APPL # 11772 | closed out / / | ( TO BE DEMOLISHED) |
| | APPL # 17697 | closed out / / | |
| | APPL # 34077 | closed out / / | |
| BUILDING G | APPL # 19093 | closed out / / | |
| BUILDING H | APPL # 19093 | closed out / / | |
| | APPL # 34077 | closed out / / | |
| BUILDING I | APPL # 27434 | closed out / / | ( TO BE DEMOLISHED) |
| BUILDING J | APPL # 66137 | closed out / / | ( TO BE PERMANENTLY RELOCATED) |
| BUILDING K | APPL # 01-104884 | closed out 8/23/2006 | |
| BUILDING L1-3 | APPL # 01-106302 | closed out 12/20/2016 | |
| BUILDING M | APPL # 01-101659 | closed out 4/9/2013 | (TO BE PERMANENTLY RELOCATED) |
| BUILDING N | APPL # 01-109206 | closed out 3/27/2013 | (TO BE TEMPORARILY RELOCATED) |
| BUILDING O | APPL # 01-109206 | closed out 3/27/2013 | (TO BE TEMOPORARILY RELOCATED) |
| BUILDING P1-4 | APPL # 01-111334 | closed out 6/27/2011 | |
| BUILDING P5-6 | APPL # ___ | closed out / / | |

EXISTING TO REMAIN
EXISTING TO BE DEMOLISHED
EXISTING TO BE MODERNIZED
EXISTING TO BE RELOCATED
LANDSCAPE

**PATH OF TRAVEL REQUIREMENTS FOR ALTERATION PROJECTS**

THE POT IDENTIFIED IN THESE CONSTRUCTION DOCUMENTS MEETS THE REQUIREMENTS OF THE CURRENT APPLICABLE CALIFORNIA BUILDING CODE (CBC) ACCESSIBILITY PROVISIONS FOR PATH OF TRAVEL REQUIREMENTS FOR ALTERATIONS, ADDITIONS AND STRUCTURAL REPAIRS.

AS PART OF THE DESIGN OF THIS PROJECT, THE POT WAS EXAMINED AND ANY ELEMENTS, COMPONENTS OR PORTIONS OF THE POT THAT WERE DETERMINED TO BE NONCOMPLIANT WITH THE CBC HAVE BEEN IDENTIFIED AND THE CORRECTIVE WORK NECESSARY TO BRING THEM INTO COMPLIANCE HAS BEEN INCLUDED WITHIN THE SCOPE OF THIS PROJECT'S WORK THROUGH DETAILS, DRAWINGS AND SPECIFICATIONS INCORPORATED INTO THESE CONSTRUCTION DOCUMENTS.

ANY NONCOMPLIANT ELEMENTS, COMPONENTS OR PORTIONS OF THE POT THAT WILL NOT BE CORRECTED BY THIS PROJECT BASED ON VALUATION THRESHOLD LIMITATIONS OR A FINDING OF UNREASONABLE HARDSHIP ARE INDICATED IN THESE CONSTRUCTION DOCUMENTS.

DURING CONSTRUCTION, IF POT ITEMS WITHIN THE SCOPE OF THE PROJECT REPRE SENTED AS CBC COMPLIANT ARE FOUND TO BE NONCONFORMING BEYOND REASONABLE CONSTRUCTION TOLERANCES, THE ITEMS SHALL BE BROUGHT INTO COMPLIANCE WITH THE CBC AS A PART OF THIS PROJECT BY MEANS OF A CONSTRUCTION CHANGE DOCUMENT.

## SHEET NOTES

**OWNER:** SRCS VENETIA VALLEY K-8

**PROJECT NAME:** CLASSROOM REPLACEMENT AND NEW MPR BUILDING

**CLIENT ADDRESS:** 177 N San Pedro Rd, San Rafael, CA 94903

DESIGN DEVELOPMENT SET

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DATE _____

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**KEYPLAN:**

**DATE ISSUED:** 08/18/2017
**PROJECT NO:** 2017 - 40104
**SCALE:** As indicated
**SHEET NUMBER:** GEN-11
**SHEET TITLE:** CODE COMPLIANCE- EXISTING CONDITIONS

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## CODE SUMMARY (NEW CONSTRUCTION)

| | MAIN FUNCTION | OCCUPANCY GROUP | CONSTRUC-TION TYPE | SPRINK-LERED? | # OF STORIES | ALLOWABLE HEIGHT (FT) | PROVIDED HEIGHT | ALLOWABLE TABULAR AREA SF | ALLOWABLE AREA (SF)*b | ACTUAL AREA (SF)*b | COMMENTS |
|---|---|---|---|---|---|---|---|---|---|---|---|
| BUILDING D*a | CLASSROOMS/ASSEMBLY/ OFFICE/ KITCHEN | A3/B/E | V-B | YES | 1 | 40 | 1 | 18,000 | - | 13,701 | |
| BUILDING E*a | CLASSROOMS | B/E | V-B | YES | 2 | 40 | | 28,500 | 65,740 | 32,951 | |

*a BUILDING IDENTIFIER APPROPRIATED FROM EXISTING DEMOLISHED BUILDINGS.
*b ALLOWABLE AREA PER CBC 506.2.3. SEE ALLOWABLE AREA CALCULATIONS BELOW

# CODE COMPLIANCE- SITE PLAN ( END OF PHASE 2)

1 1" = 40'-0"

## SHEET NOTES

1. FOR CODE SUMMARY, SEE SHEET XXX

| Area Schedule (Gross Building) | | | | |
|---|---|---|---|---|
| BUILDING | LEVEL | Number | OCC GROUP | AREA |
| BUILDING D | 1 | 1-1 | Occ Group A3 | 8202 SF |
| BUILDING D | 1 | 1-2 | Occ Group B | 1523 SF |
| BUILDING D | 1 | 1-4 | Occ Group E | 3976 SF |
| BUILDING D | | | | 13701 SF |
| BUILDING E | 1 | 1-3 | Occ Group E | 16637 SF |
| BUILDING E | 2 | 2-1 | Occ Group E | 16314 SF |
| BUILDING E | | | | 32951 SF |
| BUILDING GROSS AREA: 5 | | | | 46652 SF |

**FIRE-RESISTIVE REQUIREMENTS**
*PER CBC TABLE 601*

| ELEMENT | RATING | NOTES |
|---|---|---|
| BEARING WALLS - EXTERIOR | 0 HR | |
| BEARING WALLS - INTERIOR | 0 HR | |
| NON-BEARING WALLS - EXTERIOR | 0 HR | |
| STRUCTURAL FRAME | 0 HR | |
| NON-BEARING WALLS - INTERIOR | 0 HR | |
| ROOF/CEILING ASSEMBLIES | 0 HR | |
| ROOFING | CLASS B | |

**MINIMUM ROOF FIRE CLASS**
*PER CBC TABLE 1501.1*

| CONSTRUCTION TYPE | CLASS | PROVIDED |
|---|---|---|
| V-B | CLASS B | |
| | | |

**Aa** = **[At + (NS x If)] X Sa** (PER EQUATION 5-2 CBC 506.2.3)

**At** = 28,500 SF

**NS** = 9,500 SF

**W** =20'

**P** = (DIM AX2) + DIM BX2) + (DIM C X 2) + DIM D +( DIM E X 2) + DIM F + DIM G + DIM H
= (82 X 2) + (91 X 2) + ( 29 X 2) + 31 +(140 X 2) + 74 + 71 + 12
= 872 SF

**F** = P - (DIM I + DIM J)
= 872 - (33 + 32)
= 807 SF

**If** = (F / P - 0.25) W / 30
= [(807 / 872) - 0.25] 20 / 30
= (0.93 - 0.25) (0.67)
= 0.46

**Aa** **= [At + (NS x If)] x Sa**
**=** [28,500 + ( 9,500 X 0.46)] x 2
= (28,500 + 4,370) x 2
= 32,870 x 2
**= 65, 740 SF**

Aa - ALLOWABLE AREA PER STORY AFTER AREA INCREASE PER CBC SECTION 506
At - TABULAR AREA PER CBC TABLE 503
If - FRONTAGE INCREASE PER CBC SECTION 506.2 - SEE CALCULATION BELOW
P - PERIMETER OF ENTIRE BUILDING
F - PERIMETER OF BUILDING W/ MIN. 20' FRONTAGE
W - FRONTAGE WIDTH

**PATH OF TRAVEL REQUIREMENTS FOR ALTERATION PROJECTS**

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**PROJECT NAME:** CLASSROOM REPLACEMENT AND NEW MPR BUILDING

**CLIENT ADDRESS:** 177 N San Pedro Rd, San Rafael, CA 94903

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**KEYPLAN:**

**DATE ISSUED:** 08/18/2017

**PROJECT NO:** 2017 - 40104

**SCALE:** As indicated

**SHEET NUMBER:**

**GEN-12**

**SHEET TITLE:**

**CODE COMPLIANCE - FRONTAGE DIM, SITE EGRESS**


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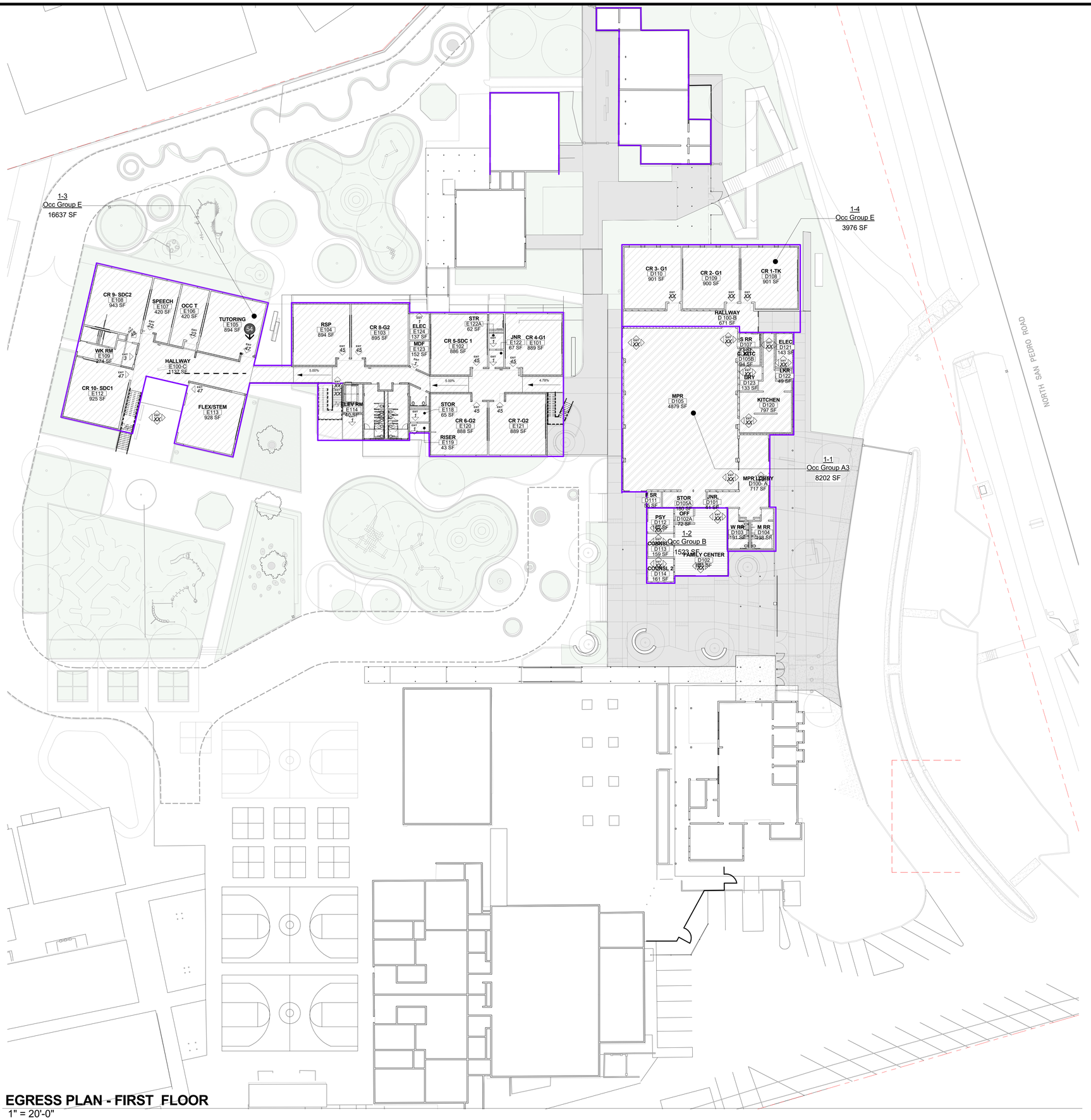


# SHEET NOTES

1. FOR CODE SUMMARY, SEE SHEET XXX

EGRESS OCCUPANCY LOAD CALCS - LEVEL 1

| ROOM # | ROOM NAME | FUNCTION | ROOM AREA | OCCUPANCY | Occupant Load Factor | Occupant Load |
|---|---|---|---|---|---|---|
| D100- A | MPR LOBBY | ASSEMBLY | 717 SF | A-3 | 5 | 144 |
| D101 | JNR | BUILDING SUPPORT | 41 SF | B | 300 | 1 |
| D102 | FAMILY CENTER | OFFICE | 861 SF | B | 100 | 9 |
| D102A | OFF | OFFICE | 72 SF | B | 100 | 1 |
| D103 | W RR | RESTROOM | 191 SF | | | |
| D104 | M RR | RESTROOM | 198 SF | | | |
| D105 | MPR | ASSEMBLY | 4879 SF | A-3 | 7 | 697 |
| D105A | STOR | STORAGE | 180 SF | A-3 | 300 | 1 |
| D105B | C. KITC | KITCHEN | 94 SF | B | 200 | 1 |
| D107 | S RR | RESTROOM | 73 SF | | | |
| D108 | CR 1-TK | CLASSROOM | 901 SF | E | 20 | 46 |
| D109 | CR 2- G1 | CLASSROOM | 900 SF | E | 20 | 45 |
| D110 | CR 3- G1 | CLASSROOM | 901 SF | E | 20 | 46 |
| D111 | F SR | BUILDING SUPPORT | 55 SF | B | 300 | 1 |
| D112 | PSY | OFFICE | 162 SF | B | 100 | 2 |
| D113 | COUNSL 1 | OFFICE | 159 SF | B | 100 | 2 |
| D114 | COUNSL 2 | OFFICE | 161 SF | B | 100 | 2 |
| D120 | KITCHEN | KITCHEN | 797 SF | B | 200 | 4 |
| D121 | ELEC | BUILDING SUPPORT | 143 SF | B | 300 | 1 |
| D122 | LKR | KITCHEN | 49 SF | B | 200 | 1 |
| D123 | DRY | KITCHEN | 133 SF | B | 200 | 1 |
| D 100-B | HALLWAY | BREEZEWAY | 671 SF | E | | |
| E1 | ELEV | BUILDING SUPPORT | 98 SF | | 300 | 1 |
| E100-A | HALLWAY | BREEZEWAY | 729 SF | E | | |
| E100-B | HALLWAY | BREEZEWAY | 839 SF | E | | |
| E100-C | HALLWAY | BREEZEWAY | 1137 SF | E | | |
| E101 | CR 4-G1 | CLASSROOM | 889 SF | E | 20 | 45 |
| E102 | CR 5-SDC 1 | CLASSROOM | 886 SF | E | 20 | 45 |
| E102a | S RR | RESTROOM | 61 SF | E | | |
| E103 | CR 8-G2 | CLASSROOM | 895 SF | E | 20 | 45 |
| E104 | RSP | CLASSROOM | 894 SF | E | 20 | 45 |
| E105 | TUTORING | CLASSROOM | 894 SF | E | 20 | 45 |
| E106 | OCC T | CLASSROOM | 420 SF | E | 20 | 22 |
| E107 | SPEECH | CLASSROOM | 420 SF | E | 20 | 21 |
| E108 | CR 9- SDC2 | CLASSROOM | 943 SF | E | 20 | 48 |
| E109 | WK RM | OFFICE | 274 SF | B | 100 | 3 |
| E110 | RR | RESTROOM | 67 SF | | | |
| E111 | RR | RESTROOM | 66 SF | | | |
| E112 | CR 10- SDC1 | CLASSROOM | 925 SF | E | 20 | 47 |
| E113 | FLEX/STEM | CLASSROOM | 928 SF | E | 20 | 47 |
| E114 | ELEV RM | BUILDING SUPPORT | 40 SF | E | 300 | 1 |
| E115 | GIRLS | RESTROOM | 273 SF | | | |
| E116 | BOYS | RESTROOM | 274 SF | | | |
| E117 | S RR | RESTROOM | 88 SF | | | |
| E118 | STOR | STORAGE | 65 SF | E | 300 | 1 |
| E119 | RISER | BUILDING SUPPORT | 43 SF | E | 300 | 1 |
| E120 | CR 6-G2 | CLASSROOM | 888 SF | E | 20 | 45 |
| E121 | CR 7-G2 | CLASSROOM | 889 SF | E | 20 | 45 |
| E122 | JNR | BUILDING SUPPORT | 67 SF | E | 300 | 1 |
| E122A | STR | STORAGE | 62 SF | E | 300 | 1 |
| E123 | MDF | BUILDING SUPPORT | 152 SF | E | 300 | 1 |
| E124 | ELEC | BUILDING SUPPORT | 137 SF | E | 300 | 1 |

**1 EGRESS PLAN - FIRST FLOOR**
1" = 20'-0"

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**OWNER:** SRCS VENETIA VALLEY K-8

**PROJECT NAME:** CLASSROOM REPLACEMENT AND NEW MPR BUILDING

**CLIENT ADDRESS:** 177 N San Pedro Rd, San Rafael, CA 94903

DESIGN DEVELOPMENT SET

**SEAL:**

IDENTIFICATION STAMP
DIVISION OF THE STATE ARCHITECT
OFFICE OF REGULATION SERVICES

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**KEYPLAN:**

**DATE ISSUED:** 08/18/2017

**PROJECT NO:** 2017 - 40104

**SCALE:** As indicated

**SHEET NUMBER:**

**GEN-13.1**

**SHEET TITLE:**

**CODE COMPLIANCE - OCCUPANT LOAD CALCS**

SVA ARCHITECTS
3 MACARTHUR PLACE, SUITE 850 SANTA ANA, CA 92707
T 949.809.3380 WWW.SVA-ARCHITECTS.COM

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## 1 EGRESS PLAN - SECOND FLOOR
1" = 20'-0"

## SHEET NOTES

1. FOR CODE SUMMARY, SEE SHEET XXX

EGRESS OCCUPANCY LOAD CALCS - LEVEL 2

| ROOM # | ROOM NAME | FUNCTION | ROOM AREA | OCCUPANCY | Occupant Load Factor | Occupant Load |
|---|---|---|---|---|---|---|
| E200A | HALLWAY | BREEZEWAY | 737 SF | | | |
| E200B | HALLWAY | BREEZEWAY | 841 SF | | | |
| E200C | HALLWAY | BREEZEWAY | 1265 SF | | | |
| E201 | CR 11-G5 | CLASSROOM | 878 SF | E | 20 | 44 |
| E202 | WK RM | OFFICE | 213 SF | B | 100 | 3 |
| E203 | CR 12-G4 | CLASSROOM | 871 SF | E | 20 | 44 |
| E204 | IDF | BUILDING SUPPORT | 154 SF | E | 300 | 1 |
| E204A | STOR | STORAGE | 134 SF | | | |
| E205 | CR 15-G4 | CLASSROOM | 880 SF | E | 20 | 44 |
| E206 | CR 16-G4 | CLASSROOM | 881 SF | E | 20 | 45 |
| E207 | CR 17- G3 | CLASSROOM | 872 SF | E | 20 | 44 |
| E208 | CR 18-G3 | CLASSROOM | 878 SF | E | 20 | 44 |
| E209 | CR 19- G3 | CLASSROOM | 879 SF | E | 20 | 44 |
| E212 | CR 20- G3 | CLASSROOM | 880 SF | E | 20 | 45 |
| E213 | GIRLS | RESTROOM | 285 SF | | | |
| E214 | BOYS | RESTROOM | 287 SF | | | |
| E215 | S RR | RESTROOM | 88 SF | | | |
| E216 | CR 13- G5 | CLASSROOM | 874 SF | E | 20 | 44 |
| E217 | CR 14-G5 | CLASSROOM | 871 SF | E | 20 | 44 |

**OWNER:** SRCS VENETIA VALLEY K-8

**PROJECT NAME:** CLASSROOM REPLACEMENT AND NEW MPR BUILDING

**CLIENT ADDRESS:** 177 N San Pedro Rd, San Rafael, CA 94903

DESIGN DEVELOPMENT SET

**SEAL:**

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**KEYPLAN:**

**DATE ISSUED:** 08/18/2017

**PROJECT NO:** 2017 - 40104

**SCALE:** As indicated

**SHEET NUMBER:**

**GEN-13.2**

**SHEET TITLE:**

**CODE COMPLIANCE - OCCUPANT LOAD CALCS**

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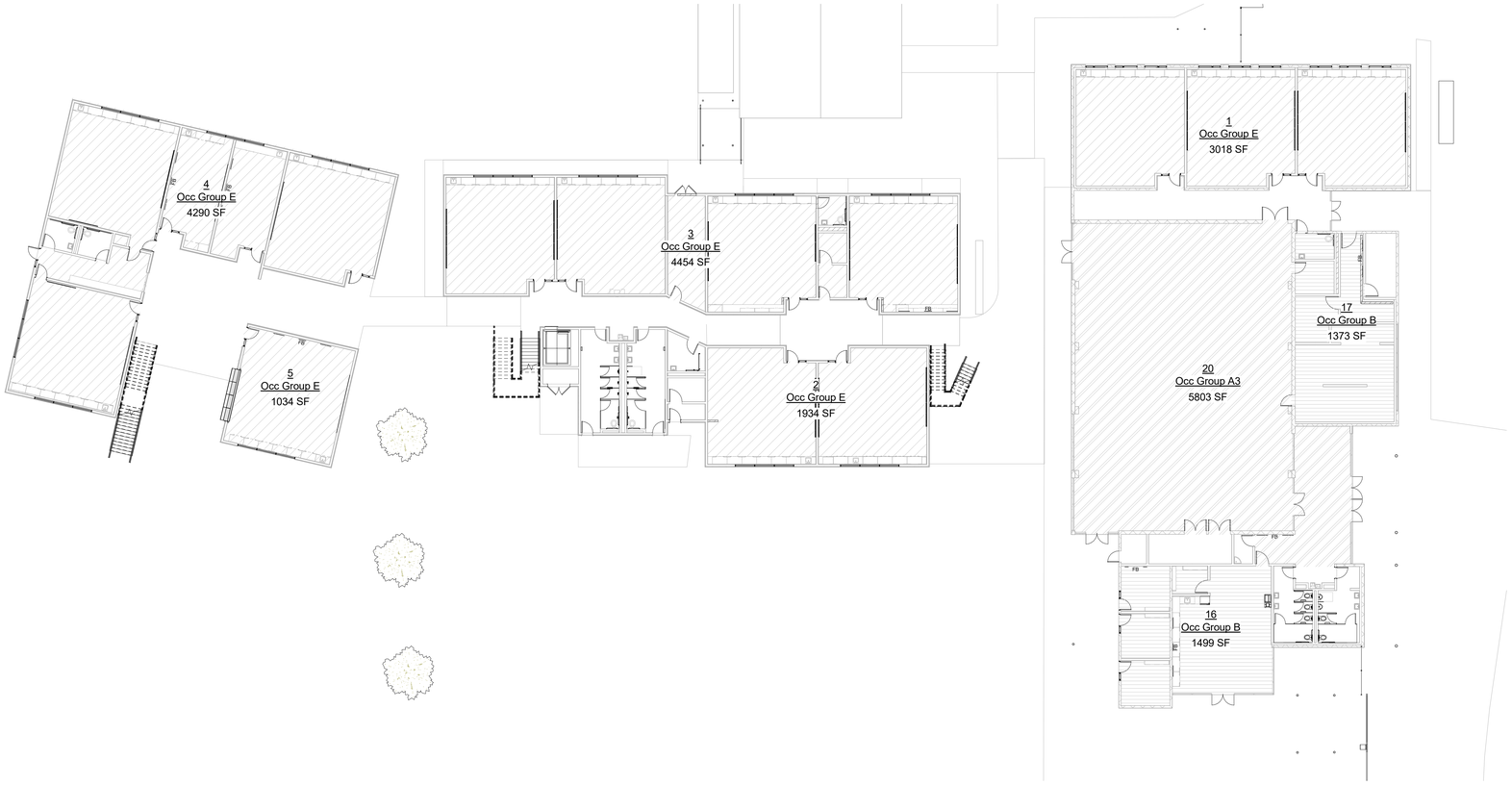
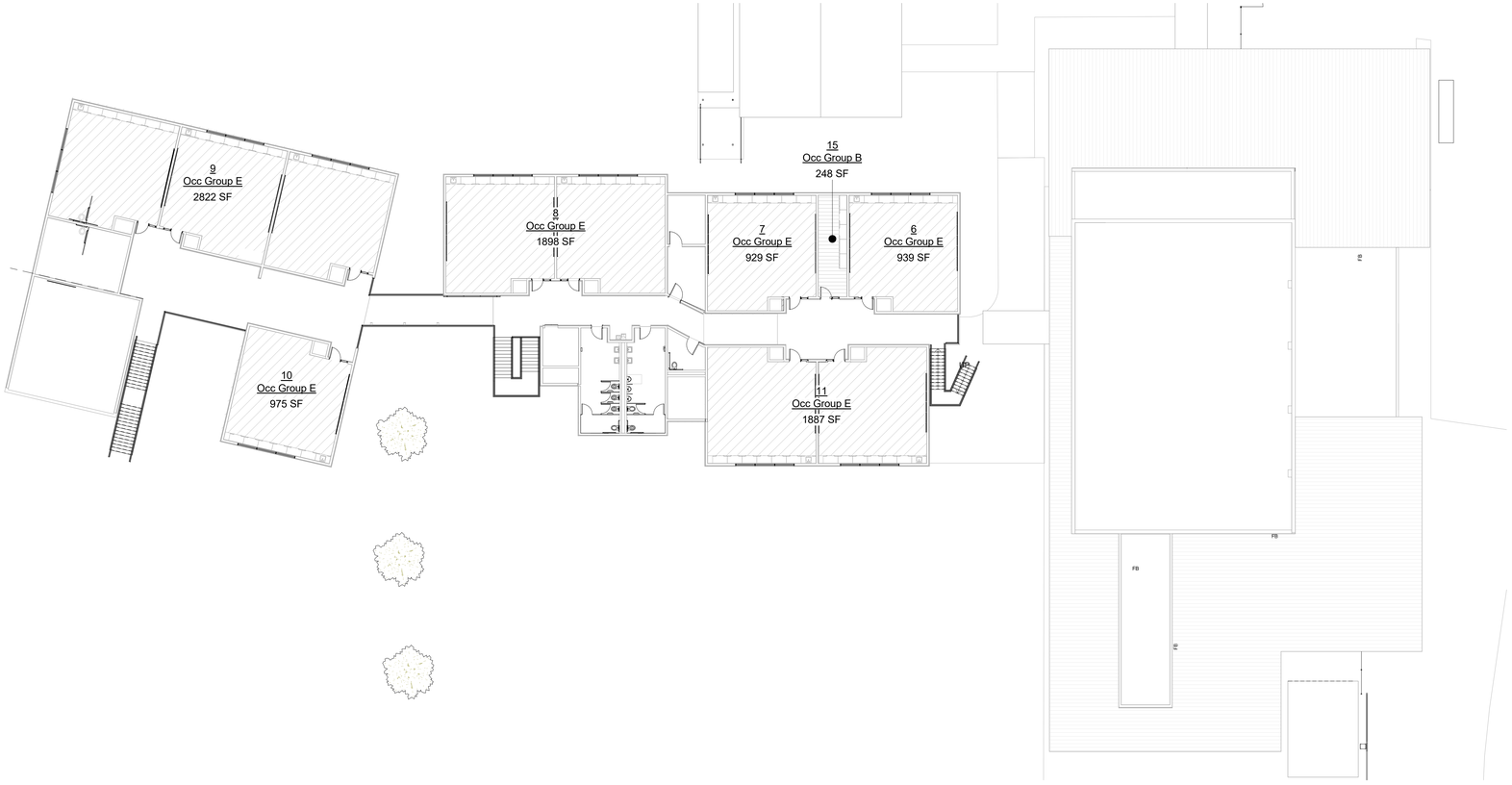



## 1 OVERALL FLOOR PLAN - Level 1

1/16" = 1'-0"




## 2 OVERALL FLOOR PLAN - Level 2

1/16" = 1'-0"

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## SHEET NOTES

19/32"

| OCCUPANT LOAD ( PLUMBING) | | | | | |
|---|---|---|---|---|---|
| AREA # | AREA OCCPANCY | AREA | OCCUPANT LOAD FACTOR | OCCUPANT LOAD CALC | Occupant Load |
| 1 | Occ Group E | 3018 SF | 50 | 3018 SF/50 | 61 |
| 2 | Occ Group E | 1934 SF | 50 | 1934 SF/50 | 39 |
| 3 | Occ Group E | 4454 SF | 50 | 4454 SF/50 | 90 |
| 4 | Occ Group E | 4290 SF | 50 | 4290 SF/50 | 86 |
| 5 | Occ Group E | 1034 SF | 50 | 1034 SF/50 | 21 |
| 6 | Occ Group E | 939 SF | 50 | 939 SF/50 | 19 |
| 7 | Occ Group E | 929 SF | 50 | 929 SF/50 | 19 |
| 8 | Occ Group E | 1898 SF | 50 | 1898 SF/50 | 38 |
| 9 | Occ Group E | 2822 SF | 50 | 2822 SF/50 | 57 |
| 10 | Occ Group E | 975 SF | 50 | 975 SF/50 | 20 |
| 11 | Occ Group E | 1887 SF | 50 | 1887 SF/50 | 38 |
| 15 | Occ Group B | 248 SF | 200 | 248 SF/200 | 2 |
| 16 | Occ Group B | 1499 SF | 200 | 1499 SF/200 | 8 |
| 17 | Occ Group B | 1373 SF | 200 | 1373 SF/200 | 7 |
| 20 | Occ Group A3 | 5803 SF | 30 | 5803 SF/30 | 194 |

| OCCUPANT LOAD SUMMARY ( PLUMBING) | |
|---|---|
| AREA OCCPANCY | Occupant Load |
| Occ Group A3 | 194 |
| Occ Group B | 17 |
| Occ Group E | 488 |

**REQUIRED PLUMBING FIXTURE COUNT ( PER CPC CHAPTER 4)**

TOTAL BUILDING PLUMBING OCCUPANT LOAD = 700
# OF REQUIRED DRINKING FOUNTAIN(S) = 3
# OF REQUIRED JANITOR'S SINK = 1

GROUP A3 OCCUPANCY ( TOTAL OCCUPANT LOAD = 194)

FEMALE OCCUPANT LOAD = 194/2= 96
# OF REQUIRED WATER CLOSETS = 3
# OF REQUIRED LAVATORIES = 1

MALE OCCUPANT LOAD = 194/2= 96
# OF REQUIRED WATER CLOSETS = 1
# OF REQUIRED URINALS = 1
# OF REQUIRED LAVATORIES = 1

GROUP B OCCUPANCY ( TOTAL OCCUPANT LOAD = 18)

FEMALE OCCUPANT LOAD = 18/2= 9
# OF REQUIRED WATER CLOSETS = 1
# OF REQUIRED LAVATORIES = 1

MALE OCCUPANT LOAD = 18/2= 9
# OF REQUIRED WATER CLOSETS = 1
# OF REQUIRED URINALS = 1
# OF REQUIRED LAVATORIES = 1

GROUP E OCCUPANCY ( TOTAL OCCUPANT LOAD = 488)

FEMALE OCCUPANT LOAD = 488/2= 244
# OF REQUIRED WATER CLOSETS = 6
# OF REQUIRED LAVATORIES = 4

MALE OCCUPANT LOAD = 488/2= 244
# OF REQUIRED WATER CLOSETS = 3
# OF REQUIRED URINALS = 3
# OF REQUIRED LAVATORIES = 2

**PLUMBING FIXTURE COUNT SUMMARY**

| | FEMALE | | MALE | | UNISEX |
|---|---|---|---|---|---|
| | REQUIRED | PROVIDED | REQUIRED | PROVIDED | PROVIDED |
| WATER CLOSET | 10 | 12 | 5 | 8 | 4 |
| LAVATORIES | 6 | 6 | 4 | 6 | 4 |
| URINALS | | | 5 | 6 | |
| DRINKING FOUNTAINS | | REQUIRED | REQUIRED | REQUIRED | |

| | REQUIRED | PROVIDED |
|---|---|---|
| DRINKING FOUNTAINS | 3 | 3 |
| JANITOR'S SINK | 1 | 3 |

## CODE - PLUMBING LEGEND

- Occ Group A3
- Occ Group B
- Occ Group E
- Calculating...

**OWNER:** SRCS VENETIA VALLEY K-8

**PROJECT NAME:** CLASSROOM REPLACEMENT AND NEW MPR BUILDING

**CLIENT ADDRESS:** 177 N San Pedro Rd, San Rafael, CA 94903

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**KEYPLAN:**

**DATE ISSUED:** 08/18/2017

**PROJECT NO:** 2017 - 40104

**SCALE:** As indicated

**SHEET NUMBER:**

**GEN-14**

**SHEET TITLE:**

# CODE COMPLIANCE - PLUMBING


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MATCH LINE SEE SHEET C1.1

EXISTING STORM DRAIN OUTFALL #2

EXISTING STORM DRAIN OUTFALL #3

EX GAS STUB

SWITCH GEAR

AT&T UB

AT&T UB

E UB

E UB

E UB

E UB

E UB

E UB

SEE NOTE 5

S44°06'00"W 606.46

NORTH SAN PEDRO ROAD

N45°54'00"W 714.88'

## LEGEND

- PROPERTY LINE
- LIMIT OF DEMOLITION
- REMOVE EXISTING BUILDING AND ASSOCIATED FOOTINGS, FOUNDATION, AND UTILITY CONNECTIONS
- PROTECT EXISTING BUILDING
- EXISTING CONCRETE TO BE REMOVED
- EXISTING ASPHALT PAVEMENT TO BE REMOVED
- CLEAR AND GRUB
- POTHOLE UTILITY PRIOR TO PREPARATION OF CONSTRUCTION DRAWINGS, SEE PLAN FOR LOCATIONS

## KEYNOTES

EXISTING FACILITIES TO BE REMOVED:

1. UTILITY PIPES AND/OR CONDUIT. CAP AT PROPERTY LINE OR DEMOLITION LIMIT.
2. MANHOLES, CLEANOUTS AND/OR CATCH BASINS
3. MISCELLANEOUS STRUCTURE TO BE FIELD VERIFIED PRIOR TO DEMOLITION
4. GAS LINES, METERS, VALVES, OR STRUCTURES. FIELD VERIFY GAS LINES ARE INACTIVE.
5. WATER METER, WATER VALVE, WATER RISER, WATER BOX, WATER LINE, FIRE LINE, ANODE OR PULL BOX
6. UNDERGROUND ELECTRICAL AND UTILITY LINES. CONTRACTOR TO VERIFY AND COORDINATE WITH OWNER. SEE ELECTRICAL PLANS.
7. REMOVE EXISTING TREE
8. CAP

EXISTING FACILITIES TO BE PROTECTED:

- A PROTECT UTILITY PIPES, MANHOLE, INLET AND/OR CONDUIT
- B PROTECT BUILDING (SEE ARCHITECTURAL PLANS FOR MODERNIZATION IMPROVEMENT PLANS)
- C PROTECT EXISTING TREE, SEE LANDSCAPE PLANS
- D PROTECT EXISTING WATER FOUNTAIN

## NOTES

1. CONTRACTOR TO FIELD VERIFY ALL EXISTING UTILITIES. NOT ALL EXISTING UTILITIES MAY BE SHOWN. EXISTING INFORMATION BASED FIELD LOCATION AND RECEIVED INFORMATION. POTHOLING FOR ADDITIONAL INFORMATION WILL BE REQUIRED. SEE PLAN FOR POTHOLE LOCATIONS.
2. CONTRACTOR TO FIELD VERIFY LOCATION OF ON-SITE UTILITY LATERALS. REMOVE AND CAP AT PROPERTY OR LIMIT OF DEMOLITION UNLESS OTHERWISE NOTED.
3. DEMOLITION MAY OCCUR OUTSIDE OF DEMOLITION LIMIT FOR UTILITY TRENCHING AND INSTALLATION OF UTILITIES, SEE UTILITY PLAN.
4. WORK IN PUBLIC RIGHT-OF-WAY PER SEPARATE PERMIT.
5. UNDERGROUND ELECTRICAL AND UTILITY LINES. CONTRACTOR TO FIELD VERIFY AND COORDINATE WITH OWNER. SEE ELECTRICAL PLANS.

GRAPHIC SCALE

20 0 10 20 40 80

( IN FEET )
1 inch = 20 ft.

**OWNER:** SRCS VENETIA VALLEY K-8

**PROJECT NAME:** CLASSROOM REPLACEMENT AND NEW MPR BUILDING

**CLIENT ADDRESS:** 177 N SAN PEDRO RD, SAN RAFAEL, CA 94903

# DESIGN DEVELOPMENT SET

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DB J. WYMA CB K. WONG

DATE 2017-08-11

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**DATE ISSUED:** 08/18/2017

**PROJECT NO:** 20171018

**SCALE:** AS INDICATED

**SHEET NUMBER:** C1.0

**SHEET TITLE:**

# EXISTING CONDITIONS AND DEMOLITION PLAN

BKF ENGINEERS SURVEYORS PLANNERS
100+ YEARS
300 FRANK OGAWA PLAZA, SUITE 380
OAKLAND, CA 94612
T 510.899.7300 WWW.BKF.COM

## LEGEND

- PROPERTY LINE
- LIMIT OF DEMOLITION
- REMOVE EXISTING BUILDING AND ASSOCIATED FOOTINGS, FOUNDATION, AND UTILITY CONNECTIONS
- PROTECT EXISTING BUILDING
- EXISTING CONCRETE TO BE REMOVED
- EXISTING ASPHALT PAVEMENT TO BE REMOVED
- CLEAR AND GRUB
- POTHOLE UTILITY PRIOR TO PREPARATION OF CONSTRUCTION DRAWINGS, SEE PLAN FOR LOCATIONS

GRAPHIC SCALE

20 0 10 20 40 80

( IN FEET )
1 inch = 20 ft.

## KEYNOTES

EXISTING FACILITIES TO BE REMOVED:

1. UTILITY PIPES AND/OR CONDUIT. CAP AT PROPERTY LINE OR DEMOLITION LIMIT.
2. MANHOLES, CLEANOUTS AND/OR CATCH BASINS
3. MISCELLANEOUS STRUCTURE TO BE FIELD VERIFIED PRIOR TO DEMOLITION
4. GAS LINES, METERS, VALVES, OR STRUCTURES. FIELD VERIFY GAS LINES ARE INACTIVE.
5. WATER METER, WATER VALVE, WATER RISER, WATER BOX, WATER LINE, FIRE LINE, ANODE OR PULL BOX
6. UNDERGROUND ELECTRICAL AND UTILITY LINES. CONTRACTOR TO VERIFY AND COORDINATE WITH OWNER. SEE ELECTRICAL PLANS.
7. REMOVE EXISTING TREE
8. CAP

EXISTING FACILITIES TO BE PROTECTED:

- A PROTECT UTILITY PIPES, MANHOLE, INLET AND/OR CONDUIT
- B PROTECT BUILDING (SEE ARCHITECTURAL PLANS FOR MODERNIZATION IMPROVEMENT PLANS)
- C PROTECT EXISTING TREE, SEE LANDSCAPE PLANS
- D PROTECT EXISTING WATER FOUNTAIN

## NOTES

1. CONTRACTOR TO FIELD VERIFY ALL EXISTING UTILITIES. NOT ALL EXISTING UTILITIES MAY BE SHOWN. EXISTING INFORMATION BASED FIELD LOCATION AND RECEIVED INFORMATION. POTHOLING FOR ADDITIONAL INFORMATION WILL BE REQUIRED. SEE PLAN FOR POTHOLE LOCATIONS.
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3. DEMOLITION MAY OCCUR OUTSIDE OF DEMOLITION LIMIT FOR UTILITY TRENCHING AND INSTALLATION OF UTILITIES, SEE UTILITY PLAN.
4. WORK IN PUBLIC RIGHT-OF-WAY PER SEPARATE PERMIT.
5. UNDERGROUND ELECTRICAL AND UTILITY LINES. CONTRACTOR TO FIELD VERIFY AND COORDINATE WITH OWNER. SEE ELECTRICAL PLANS.

**OWNER:** SRCS VENETIA VALLEY K-8

**PROJECT NAME:** CLASSROOM REPLACEMENT AND NEW MPR BUILDING

**CLIENT ADDRESS:** 177 N SAN PEDRO RD, SAN RAFAEL, CA 94903

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**DATE ISSUED:** 08/18/2017

**PROJECT NO:** 20171018

**SCALE:** AS INDICATED

**SHEET NUMBER:** C1.1

**SHEET TITLE:**

# EXISTING CONDITIONS AND DEMOLITION PLAN


BKF ENGINEERS SURVEYORS PLANNERS
100+ YEARS
300 FRANK OGAWA PLAZA, SUITE 380
OAKLAND, CA 94612
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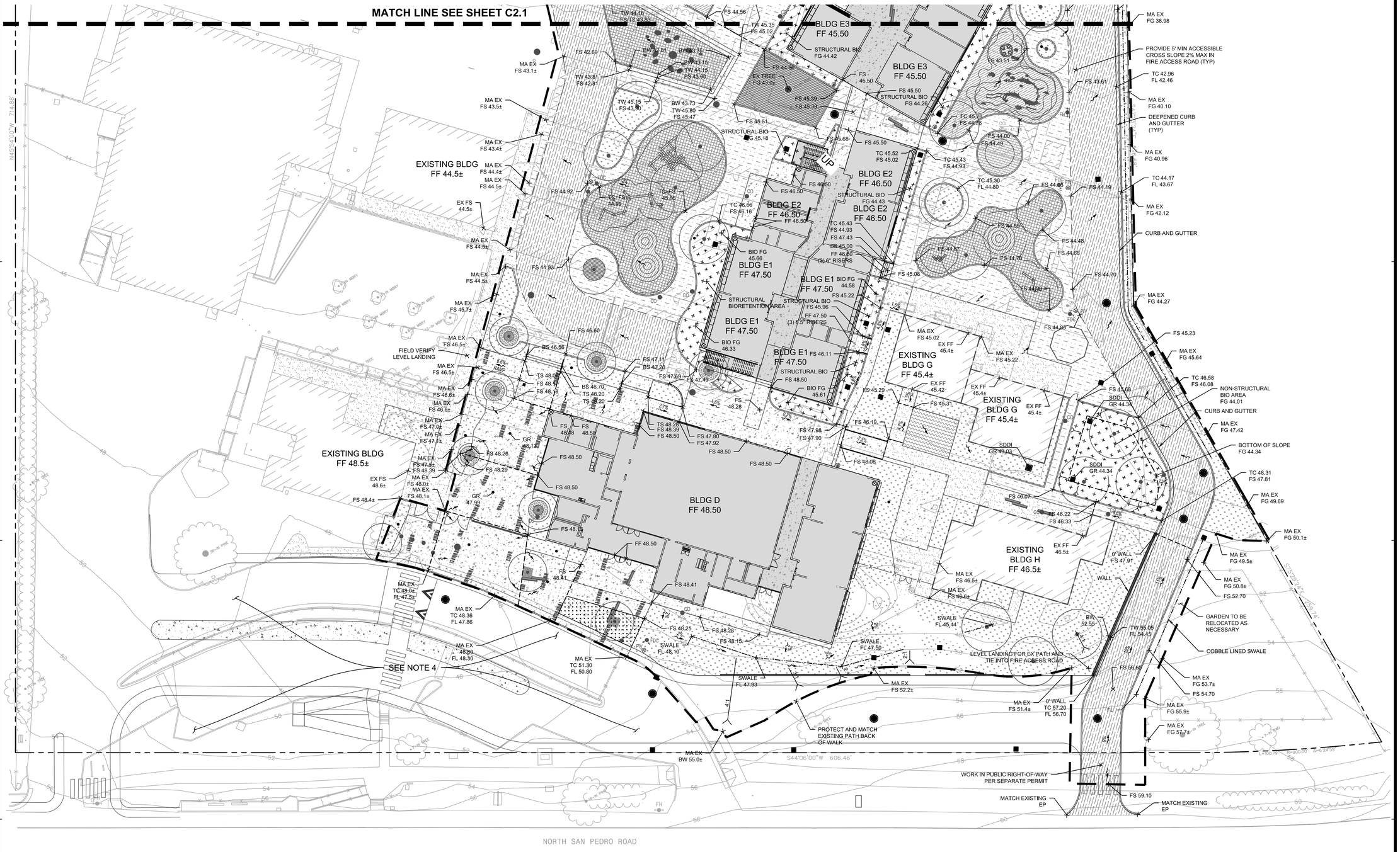


## LEGEND

- PROPERTY LINE
- GRADING LIMIT
- GRADE BREAK
- FLOW DIRECTION
- SLOPE DIRECTION
- BIORETENTION AREA
- REINFORCED CONCRETE WALL PER STRUCTURAL

## NOTES

1. EXISTING CONDITIONS OBTAINED FROM TOPOGRAPHIC SURVEY PERFORMED BY BKF ENGINEERS.
2. CONTRACTOR SHALL VERIFY AND MATCH EXISTING GRADES ADJACENT TO LIMIT OF WORK.
3. ALL SIDEWALK/WALKWAY CROSS SLOPE AND LONGITUDINAL SLOPE NOT TO EXCEED 2% AND 4.99% RESPECTIVELY, UNLESS OTHERWISE NOTED.
4. FUTURE DROP OFF IMPROVEMENTS PER SEPARATE PERMIT.
5. THE GROUND IMMEDIATELY ADJACENT TO THE FOUNDATION SHALL BE A MINIMUM OF 8" BELOW WOOD FRAMING AND SHEATHING WHICH IS NOT NATURALLY DURABLE OR PRESERVATIVE TREATED.
6. THE GROUND IMMEDIATELY ADJACENT TO THE FOUNDATION SHALL BE SLOPED WAY FROM THE BUILDING AT A SLOPE OF NOT LESS THAN 5% FOR A MINIMUM DISTANCE OF 10', MEASURED PERPENDICULAR TO THE FACE OF THE WALL. IF THIS REQUIREMENT CANNOT BE MET DUE TO PHYSICAL OBSTRUCTIONS OR LOT LINES THE SLOPE SHALL BE PROVIDED TO A DRAIN OR SWALE. IMPERVIOUS SURFACES MAY BE SLOPED A MINIMUM OF 2%.
7. SEE LANDSCAPE PLANS FOR PLANTER WALLS, STAIRS, HANDRAILS, SUBDRAIN AND PAVING MATERIALS.

## ABBREVIATIONS

| | |
|---|---|
| BLDG | BUILDING |
| BIO | BIORETENTION |
| BW | BOTTOM OF WALL |
| EP | EDGE OF PAVEMENT |
| EX | EXISTING |
| FF | FINISHED FLOOR |
| FG | FINISHED GRADE |
| FS | FINISHED SURFACE |
| MA | MATCH |
| TW | TOP OF WALL |

GRAPHIC SCALE

20 0 10 20 40 80

( IN FEET )

1 inch = 20 ft.

**OWNER:** SRCS VENETIA VALLEY K-8

**PROJECT NAME:** CLASSROOM REPLACEMENT AND NEW MPR BUILDING

**CLIENT ADDRESS:** 177 N SAN PEDRO RD, SAN RAFAEL, CA 94903

# DESIGN DEVELOPMENT SET

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**DATE ISSUED:** 08/18/2017

**PROJECT NO:** 20171018

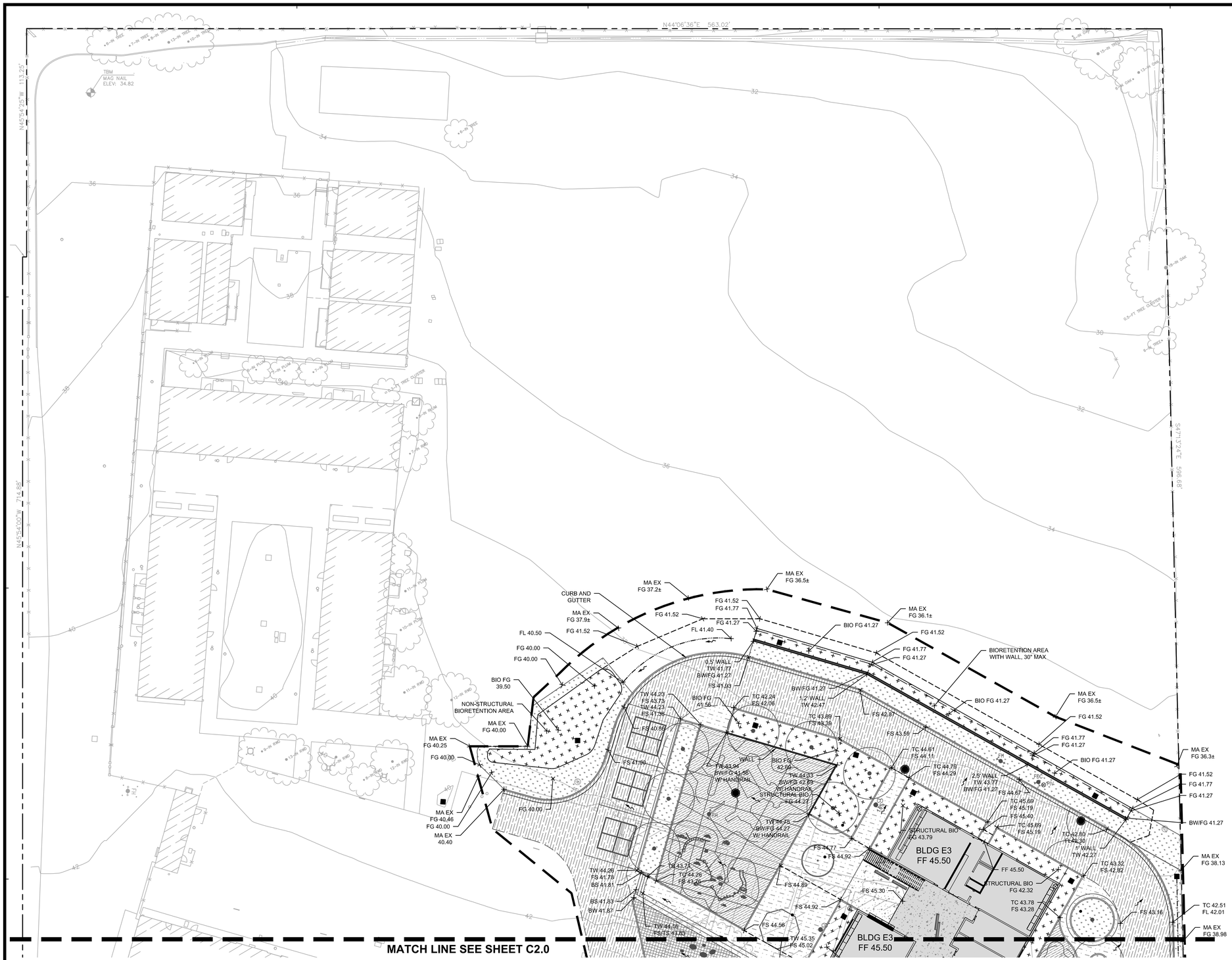
**SCALE:** AS INDICATED

**SHEET NUMBER:** C2.0

**SHEET TITLE:**

# GRADING AND DRAINAGE PLAN


BKF ENGINEERS SURVEYORS PLANNERS
100+ YEARS
300 FRANK OGAWA PLAZA, SUITE 380
OAKLAND, CA 94612
T 510.899.7300 WWW.BKF.COM




## LEGEND

- PROPERTY LINE
- GRADING LIMIT
- GRADE BREAK
- FLOW DIRECTION
- SLOPE DIRECTION
- BIORETENTION AREA
- REINFORCED CONCRETE WALL PER STRUCTURAL

## NOTES

1. EXISTING CONDITIONS OBTAINED FROM TOPOGRAPHIC SURVEY PERFORMED BY BKF ENGINEERS.
2. CONTRACTOR SHALL VERIFY AND MATCH EXISTING GRADES ADJACENT TO LIMIT OF WORK.
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6. THE GROUND IMMEDIATELY ADJACENT TO THE FOUNDATION SHALL BE SLOPED WAY FROM THE BUILDING AT A SLOPE OF NOT LESS THAN 5% FOR A MINIMUM DISTANCE OF 10', MEASURED PERPENDICULAR TO THE FACE OF THE WALL. IF THIS REQUIREMENT CANNOT BE MET DUE TO PHYSICAL OBSTRUCTIONS OR LOT LINES THE SLOPE SHALL BE PROVIDED TO A DRAIN OR SWALE. IMPERVIOUS SURFACES MAY BE SLOPED A MINIMUM OF 2%.
7. SEE LANDSCAPE PLANS FOR PLANTER WALLS, STAIRS, HANDRAILS, SUBDRAIN AND PAVING MATERIALS.

## ABBREVIATIONS

| | |
|---|---|
| BLDG | BUILDING |
| BIO | BIORETENTION |
| BW | BOTTOM OF WALL |
| EP | EDGE OF PAVEMENT |
| EX | EXISTING |
| FF | FINISHED FLOOR |
| FG | FINISHED GRADE |
| FS | FINISHED SURFACE |
| MA | MATCH |
| TW | TOP OF WALL |

GRAPHIC SCALE

20 0 10 20 40 80

( IN FEET )
1 inch = 20 ft.

**OWNER:** SRCS VENETIA VALLEY K-8

**PROJECT NAME:** CLASSROOM REPLACEMENT AND NEW MPR BUILDING

**CLIENT ADDRESS:** 177 N SAN PEDRO RD, SAN RAFAEL, CA 94903

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**DATE ISSUED:** 08/18/2017

**PROJECT NO:** 20171018

**SCALE:** AS INDICATED

**SHEET NUMBER:** C2.1

**SHEET TITLE:**

# GRADING AND DRAINAGE PLAN


BKF ENGINEERS SURVEYORS PLANNERS
100+ YEARS
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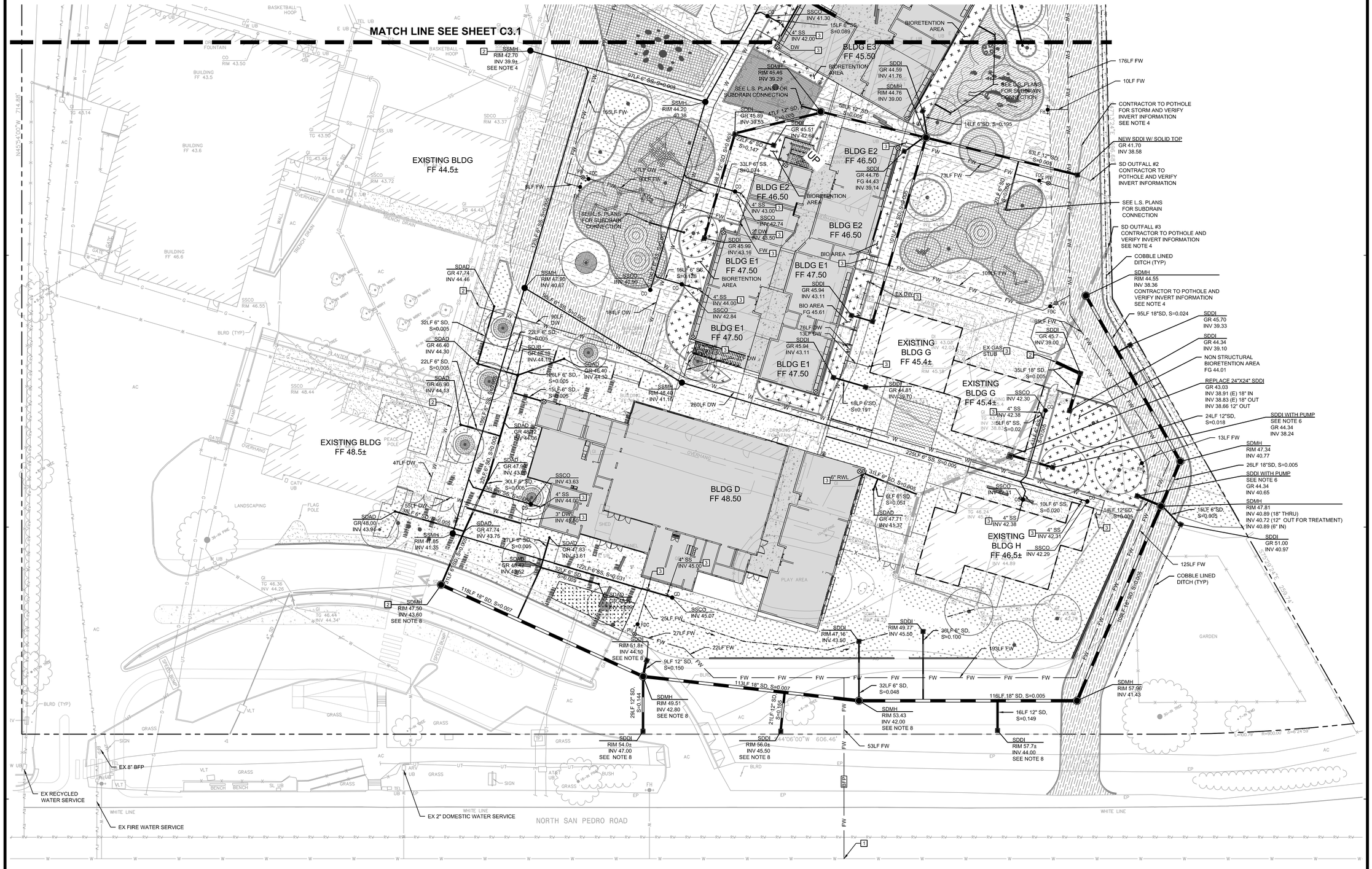
T 510.899.7300
WWW.BKF.COM




## LEGEND

- PROPERTY LINE
- STORM DRAIN (HDPE), SEE PLAN FOR SIZE
- SANITARY SEWER (PVC SDR-26), SEE PLAN FOR SIZE
- W — 4" DOMESTIC WATER (PVC C900), UNLESS OTHERWISE NOTED
- FW — 10" FIRE WATER MAIN, 8" BUILDING FIRE SERVICE LATERAL, 6" FIRE HYDRANT LATERAL (PVC C900), UNLESS OTHERWISE NOTED
- BIORETENTION AREA
- STORM DRAIN MANHOLE
- 18"X18" STORM DRAIN DROP INLET, UNLESS OTHERWISE NOTED
- 6" STORM AREA DRAIN
- 6" STORM POP UP EMITTER
- 12"X12" STORM JUNCTION BOX WITH SOLID TOP
- RAIN WATER LEADER
- SANITARY SEWER MANHOLE
- CO SANITARY SEWER CLEAN OUT
- FH FIRE HYDRANT
- FDC FIRE DEPARTMENT CONNECTION
- P/V POST-INDICATOR VALVE

## KEYNOTES

1. CONNECT TO EXISTING WATER MAIN
2. CONNECT TO EXISTING UTILITY
3. UTILITY STUB FOR BUILDING CONNECTION

## NOTES

1. PROVIDE 12" MIN VERTICAL CLEARANCE BETWEEN UTILITY LINES UNLESS OTHERWISE NOTED ON PLANS.
2. CONTRACTOR SHALL FIELD VERIFY ALL EXISTING UTILITIES.
3. FIRE SERVICE SHOWN FOR REFERENCE ONLY. FINAL DESIGN AND CALCULATIONS SHALL BE PROVIDED BY THE FIRE PROTECTION ENGINEER.
4. POTHOLE REQUIRED TO VERIFY INVERT DEPTHS.
5. STANDARD PLANTING SHALL BE PROVIDED IN THE SECTIONS OF BIORETENTION AREAS WHERE UTILITY LINES RUN THROUGH THEM TO REACH THE BUILDING POINTS OF CONNECTION.
6. PUMP SHALL BE LITTLE GIANT 2HP MODEL NUMBER 2EHP1, SEE ELECTRICAL PLANS FOR POWER SUPPLY.
7. ALL SANITARY SEWER SERVICE LATERALS FROM THE BUILDING POINTS OF CONNECTION AND THE SANITARY SEWER CLEANOUTS SHALL BE SLOPED AT A MINIMUM OF 2%, UNLESS OTHERWISE NOTED.
8. ALLOW RIM TO BE ADJUSTED TO FUTURE DROP-OFF ELEVATION BY ADDING/SUBTRACTIC RIMS.

## ABBREVIATIONS

| | |
|---|---|
| BFP | BACKFLOW PREVENTOR |
| BIO | BIORETENTION AREA |
| BLDG | BUILDING |
| CO | CLEAN OUT |
| EX | EXISTING |
| FDC | FIRE DEPARTMENT CONNECTION |
| FG | FINISHED GRADE |
| FH | FIRE HYDRANT |
| FF | FINISHED FLOOR |
| FW | FIRE WATER |
| GR | GRATE |
| INV | INVERT |
| JB | JUNCTION BOX |
| LF | LINEAR FEET |
| L.S. | LANDSCAPE |
| MA | MATCH |
| P/V | POST INDICATOR VALVE |
| RWL | RAIN WATER LEADER |
| SD | STORM DRAIN |
| SDAD | STORM DRAIN AREA DRAIN |
| SDDI | STORM DRAIN DROP INLET |
| SDMH | STORM DRAIN MANHOLE |
| SS | SANITARY SEWER |
| SSCO | SANITARY SEWER CLEAN OUT |
| SSMH | SANITARY SEWER MANHOLE |
| W | WATER |
| W/ | WITH |

GRAPHIC SCALE

20 0 10 20 40 80

( IN FEET )

1 inch = 20 ft.

**OWNER:** SRCS VENETIA VALLEY K-8

**PROJECT NAME:** CLASSROOM REPLACEMENT AND NEW MPR BUILDING

**CLIENT ADDRESS:** 177 N SAN PEDRO RD, SAN RAFAEL, CA 94903

# DESIGN DEVELOPMENT SET

IDENTIFICATION STAMP

DB J. WYMA CB K. WONG

DATE 2017-08-11

**REVISIONS:**

| | DESCRIPTION | DATE |
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**DATE ISSUED:** 08/18/2017

**PROJECT NO:** 20171018

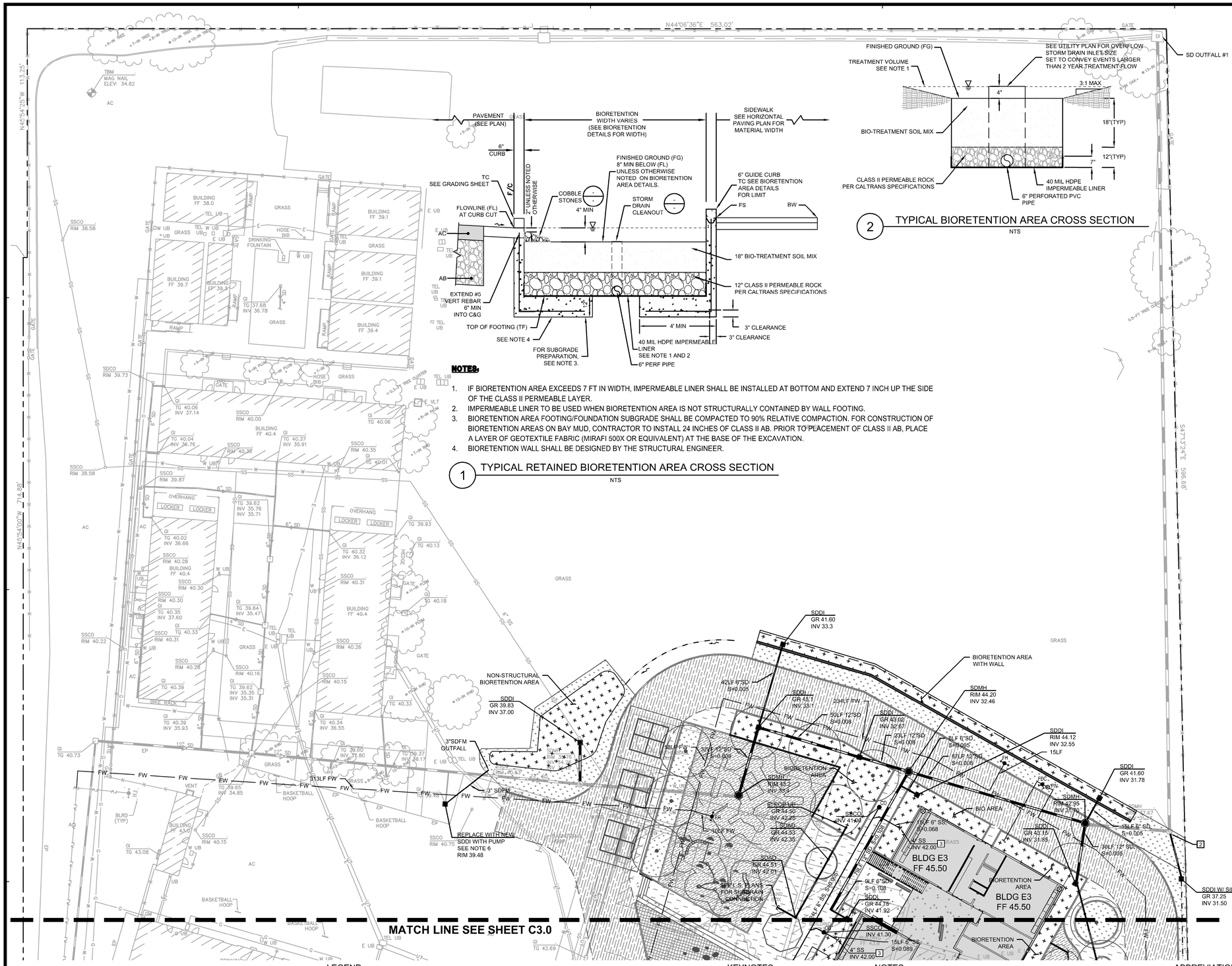
**SCALE:** AS INDICATED

**SHEET NUMBER:** C3.0

**SHEET TITLE:**

# UTILITY PLAN


BKF ENGINEERS SURVEYORS PLANNERS
100+ YEARS
300 FRANK OGAWA PLAZA, SUITE 380
OAKLAND, CA 94612
T 510.899.7300 WWW.BKF.COM










2 TYPICAL BIORETENTION AREA CROSS SECTION
NTS

**NOTES:**

1. IF BIORETENTION AREA EXCEEDS 7 FT IN WIDTH, IMPERMEABLE LINER SHALL BE INSTALLED AT BOTTOM AND EXTEND 7 INCH UP THE SIDE OF THE CLASS II PERMEABLE LAYER.
2. IMPERMEABLE LINER TO BE USED WHEN BIORETENTION AREA IS NOT STRUCTURALLY CONTAINED BY WALL FOOTING.
3. BIORETENTION AREA FOOTING/FOUNDATION SUBGRADE SHALL BE COMPACTED TO 90% RELATIVE COMPACTION. FOR CONSTRUCTION OF BIORETENTION AREAS ON BAY MUD, CONTRACTOR TO INSTALL 24 INCHES OF CLASS II AB. PRIOR TO PLACEMENT OF CLASS II AB, PLACE A LAYER OF GEOTEXTILE FABRIC (MIRAFI 500X OR EQUIVALENT) AT THE BASE OF THE EXCAVATION.
4. BIORETENTION WALL SHALL BE DESIGNED BY THE STRUCTURAL ENGINEER.

1 TYPICAL RETAINED BIORETENTION AREA CROSS SECTION
NTS

GRAPHIC SCALE
10 0 5 10 20 40 80
( IN FEET )
1 inch = 20 ft.

## LEGEND

- PROPERTY LINE
- STORM DRAIN (HDPE), SEE PLAN FOR SIZE
- SANITARY SEWER (PVC SDR-26), SEE PLAN FOR SIZE
- W — 4" DOMESTIC WATER (PVC C900), UNLESS OTHERWISE NOTED
- FW — 10" FIRE WATER MAIN, 8" BUILDING FIRE SERVICE LATERAL, 6" FIRE HYDRANT LATERAL (PVC C900), UNLESS OTHERWISE NOTED
- BIORETENTION AREA
- STORM DRAIN MANHOLE
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- 12"X12" STORM JUNCTION BOX WITH SOLID TOP
- RAIN WATER LEADER
- SANITARY SEWER MANHOLE
- CO SANITARY SEWER CLEAN OUT
- FH FIRE HYDRANT
- FDC FIRE DEPARTMENT CONNECTION
- PIV POST-INDICATOR VALVE

## KEYNOTES

1. CONNECT TO EXISTING WATER MAIN
2. CONNECT TO EXISTING UTILITY
3. UTILITY STUB FOR BUILDING CONNECTION

## NOTES

1. PROVIDE 12" MIN VERTICAL CLEARANCE BETWEEN UTILITY LINES UNLESS OTHERWISE NOTED ON PLANS.
2. CONTRACTOR SHALL FIELD VERIFY ALL EXISTING UTILITIES.
3. FIRE SERVICE SHOWN FOR REFERENCE ONLY. FINAL DESIGN AND CALCULATIONS SHALL BE PROVIDED BY THE FIRE PROTECTION ENGINEER.
4. POTHOLE REQUIRED TO VERIFY INVERT DEPTHS.
5. STANDARD PLANTING SHALL BE PROVIDED IN THE SECTIONS OF BIORETENTION AREAS WHERE UTILITY LINES RUN THROUGH THEM TO REACH THE BUILDING POINTS OF CONNECTION.
6. PUMP SHALL BE LITTLE GIANT 2HP MODEL NUMBER 2EHP1, SEE ELECTRICAL PLANS FOR POWER SUPPLY.
7. ALL SANITARY SEWER SERVICE LATERALS FROM THE BUILDING POINTS OF CONNECTION AND THE SANITARY SEWER CLEANOUTS SHALL BE SLOPED AT A MINIMUM OF 2%, UNLESS OTHERWISE NOTED.
8. ALLOW RIM TO BE ADJUSTED TO FUTURE DROP-OFF ELEVATION BY ADDING/SUBTRACTIC RIMS.

## ABBREVIATIONS

| | |
|---|---|
| BFP | BACKFLOW PREVENTOR |
| BIO | BIORETENTION AREA |
| BLDG | BUILDING |
| CO | CLEAN OUT |
| EX | EXISTING |
| FDC | FIRE DEPARTMENT CONNECTION |
| FG | FINISHED GRADE |
| FH | FIRE HYDRANT |
| FF | FINISHED FLOOR |
| FW | FIRE WATER |
| GR | GRATE |
| INV | INVERT |
| JB | JUNCTION BOX |
| LF | LINEAR FEET |
| L.S. | LANDSCAPE |
| MA | MATCH |
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| RWL | RAIN WATER LEADER |
| SD | STORM DRAIN |
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| SDDI | STORM DRAIN DROP INLET |
| SDMH | STORM DRAIN MANHOLE |
| SS | SANITARY SEWER |
| SSCO | SANITARY SEWER CLEAN OUT |
| SSMH | SANITARY SEWER MANHOLE |
| W | WATER |
| W/ | WITH |

**OWNER:** SRCS VENETIA VALLEY K-8

**PROJECT NAME:** CLASSROOM REPLACEMENT AND NEW MPR BUILDING

**CLIENT ADDRESS:** 177 N SAN PEDRO RD, SAN RAFAEL, CA 94903

# DESIGN DEVELOPMENT SET

IDENTIFICATION STAMP

DB J. WYMA CB K. WONG

DATE 2017-08-11

**REVISIONS:**

| | DESCRIPTION | DATE |
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**DATE ISSUED:** 08/18/2017

**PROJECT NO:** 20171018

**SCALE:** AS INDICATED

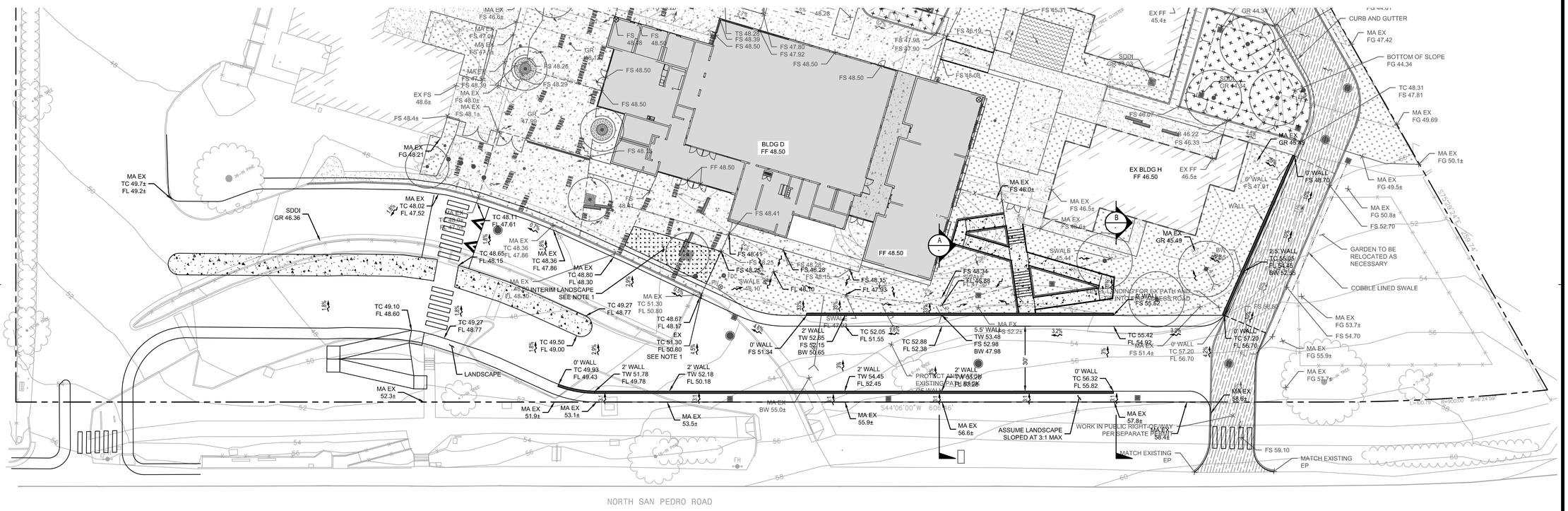
**SHEET NUMBER:** C3.1

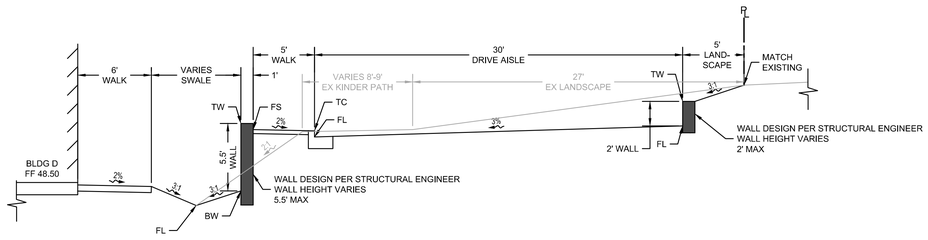
**SHEET TITLE:**

# UTILITY PLAN

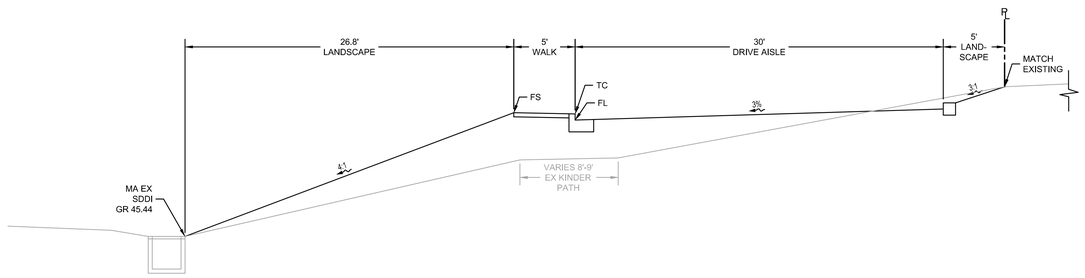

BkF 100+ YEARS ENGINEERS SURVEYORS PLANNERS

300 FRANK OGAWA PLAZA, SUITE 380
OAKLAND, CA 94612
T 510.899.7300
WWW.BKF.COM




A — SECTION A
SCALE 1"=5'




B — SECTION B
SCALE 1"=5'

GRAPHIC SCALE
20 0 10 20 40 60
( IN FEET )
1 inch = 20 ft.

LEGEND

- PROPERTY LINE
- FLOW DIRECTION
- SLOPE DIRECTION
- INTERIM LANDSCAPE, SEE NOTE 1
- REINFORCED CONCRETE WALL PER STRUCTURAL

NOTES

1. FUTURE DROP OFF GRADES ARE LOWER THAN EXISTING. INSTALL INTERIM LANDSCAPE TO CONFORM. INSTALL SIDEWALK PER LANDSCAPE PLAN AND ADJUST FRONTAGE CURB AFTER DROP OFF WORK IS COMPLETE.
2. WORK IN PUBLIC RIGHT-OF-WAY PER SEPARATE PERMIT.
3. SEE LANDSCAPE PLANS FOR RAMP CONFIGURATIONS.
4. EXISTING GRADES SHOWN SHADED FOR REFERENCE.

**OWNER:** SRCS VENETIA VALLEY K-8

**PROJECT NAME:** CLASSROOM REPLACEMENT AND NEW MPR BUILDING

**CLIENT ADDRESS:** 177 N SAN PEDRO RD, SAN RAFAEL, CA 94903

# DESIGN DEVELOPMENT SET

IDENTIFICATION STAMP

DB J. WYMA CB K. WONG

DATE 2017-08-11

**REVISIONS:**

| | DESCRIPTION | DATE |
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**DATE ISSUED:** 08/18/2017

**PROJECT NO:** 20171018

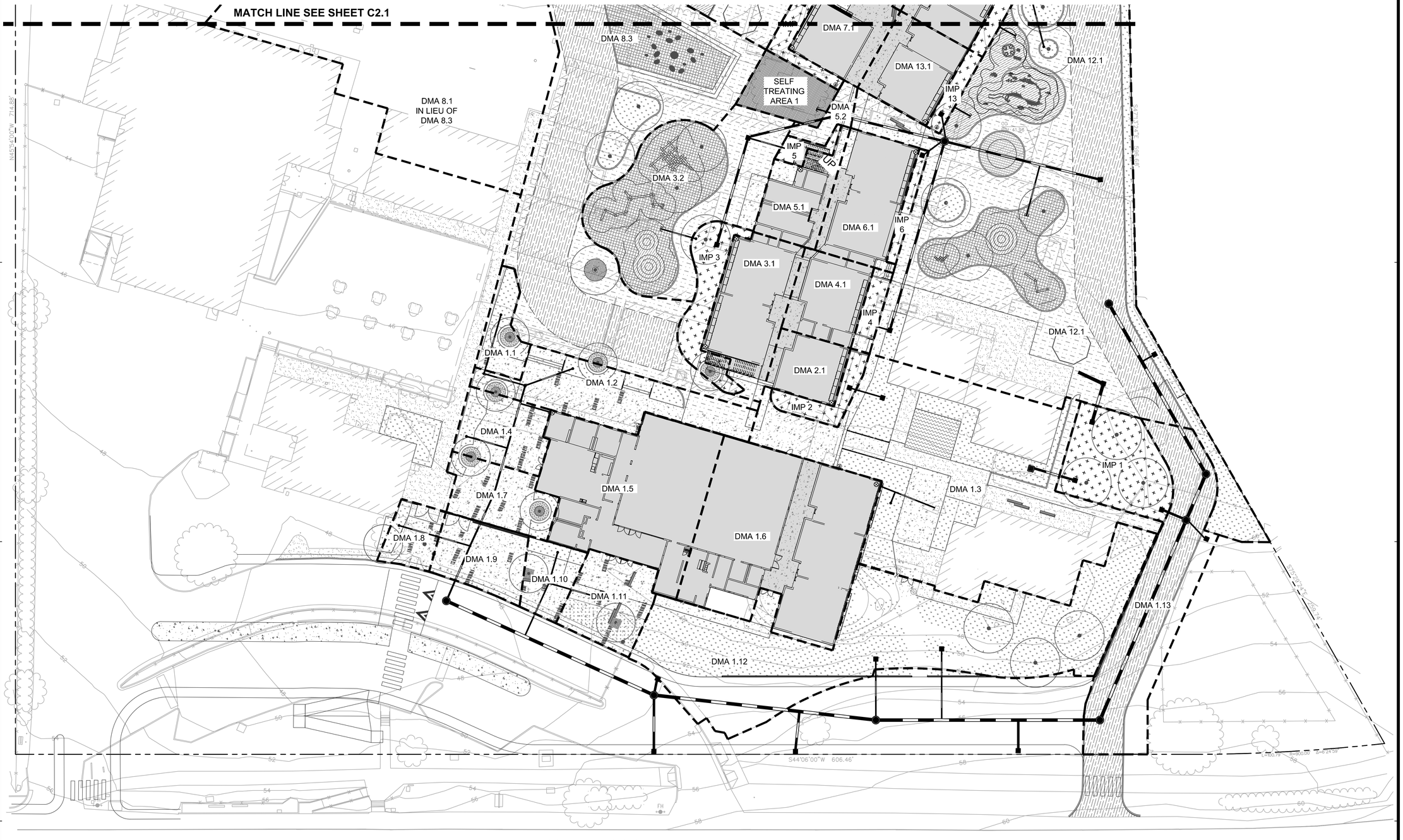
**SCALE:** AS INDICATED

**SHEET NUMBER:** C4.0

**SHEET TITLE:**

# □UTURE DROP O□□ CONSTRAINTS


BKF ENGINEERS SURVEYORS PLANNERS
100+ YEARS
300 FRANK OGAWA PLAZA, SUITE 380
OAKLAND, CA 94612
T 510.899.7300
WWW.BKF.COM




| DMA/IMP | IMPERVIOUS AREA (SF) | PERVIOUS AREA (SF) | TOTAL AREA (SF) | BIORETENTION AREA REQUIRED (SF) | BIORETENTION AREA PROVIDED (SF) |
|---|---|---|---|---|---|
| DMA 1.1 | 343 | 570 | 913 | 19 | |
| DMA 1.2 | 2,746 | 397 | 3,143 | 114 | |
| DMA 1.3 | 9,761 | 2,022 | 11,783 | 411 | |
| DMA 1.4 | 1,302 | 280 | 1,582 | 55 | |
| DMA 1.5 | 5,972 | 0 | 5,972 | 239 | |
| DMA 1.6 | 7,397 | 0 | 7,397 | 296 | |
| DMA 1.7 | 1,561 | 78 | 1,639 | 63 | |
| DMA 1.8 | 689 | 150 | 839 | 29 | |
| DMA 1.9 | 1,577 | 0 | 1,577 | 63 | |
| DMA 1.10 | 666 | 256 | 922 | 29 | |
| DMA 1.11 | 1,825 | 0 | 1,825 | 73 | |
| DMA 1.12 | 2,824 | 9,120 | 11,944 | 204 | |
| DMA 1.13 | 3,840 | 1,154 | 4,994 | 165 | |
| **IMP 1** | **40,503** | **14,027** | **54,530** | **1,760** | **1,829** |
| DMA 2.1 | 592 | 570 | 1,162 | 29 | |
| **IMP 2** | **592** | **570** | **1,162** | **29** | **654** |
| DMA 3.1 | 2,677 | 0 | 2,677 | 107 | |
| **IMP 3** | **2,677** | **0** | **2,677** | **107** | **1,371** |
| DMA 4.1 | 1,620 | 0 | 1,620 | 65 | |
| IMP 4 | **1,620** | **0** | **1,620** | **65** | **439** |
| DMA 5.1 | 1,572 | 0 | 1,572 | 63 | |
| DMA 5.2 | 447 | 0 | 447 | 18 | |
| **IMP 5** | **2,019** | **0** | **2,019** | **81** | **281** |
| DMA 6.1 | 2,460 | 0 | 2,460 | 98 | |
| IMP 6 | **2,460** | **0** | **2,460** | **98** | **305** |
| DMA 7.1 | 2,008 | 0 | 2,008 | 80 | |
| IMP 7 | **2,008** | **0** | **2,008** | **80** | **560** |
| DMA 8.1 | 16,960 | 0 | 16,960 | 678 | |
| DMA 8.2 | 2,508 | 1,405 | 3,913 | 114 | |
| IMP 8 | **19,468** | **1,405** | **20,873** | **793** | **1,343** |
| DMA 9.1 | 2,408 | 5,050 | 7,458 | 147 | |
| IMP 9 | **2,408** | **5,050** | **7,458** | **147** | **1,711** |
| DMA 10.1 | 2,052 | 0 | 2,052 | 82 | |
| IMP 10 | **2,052** | **0** | **2,052** | **82** | **725** |
| DMA 11.1 | 1,840 | 0 | 1,840 | 74 | |
| IMP 11 | **1,840** | **0** | **1,840** | **74** | **810** |
| DMA 12.1 | 23,891 | 9,347 | 33,238 | 1,049 | |
| IMP 12 | **23,891** | **9,347** | **33,238** | **1,049** | **1,138** |
| DMA 13.1 | 1,837 | 0 | 1,837 | 73 | |
| IMP 13 | **1,837** | **0** | **1,837** | **73** | **370** |
| | | | | | |

GRAPHIC SCALE

( IN FEET )
1 inch = 20 ft.

LEGEND

- PROPERTY LINE
- STORM DRAIN (HDPE)
- BIORETENTION AREA
- STORM DRAIN MANHOLE
- 18"X18" STORM DRAIN DROP INLET UNLESS OTHERWISE NOTED
- 6" STORM AREA DRAIN
- 6" STORM POP UP EMITTER
- 12"X12" STORM JUNCTION BOX WITH SOLID TOP
- RAIN WATER LEADER

**OWNER:** SRCS VENETIA VALLEY K-8

**PROJECT NAME:** CLASSROOM REPLACEMENT AND NEW MPR BUILDING

**CLIENT ADDRESS:** 177 N SAN PEDRO RD, SAN RAFAEL, CA 94903

# DESIGN DEVELOPMENT SET

IDENTIFICATION STAMP

DB J. WYMA CB K. WONG

DATE 2017-08-11

**REVISIONS:**

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**DATE ISSUED:** 08/18/2017

**PROJECT NO:** 20171018

**SCALE:** AS INDICATED

**SHEET NUMBER:** C□.0

**SHEET TITLE:**

# STORM WATER CONTROL PLAN


BKF ENGINEERS SURVEYORS PLANNERS
100+ YEARS
300 FRANK OGAWA PLAZA, SUITE 380
OAKLAND, CA 94612
T 510.899.7300 WWW.BKF.COM

| DMA/IMP | IMPERVIOUS AREA (SF) | PERVIOUS AREA (SF) | TOTAL AREA (SF) | BIORETENTION AREA REQUIRED (SF) | BIORETENTION AREA PROVIDED (SF) |
|---|---|---|---|---|---|
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| DMA 4.1 | 1,620 | 0 | 1,620 | 65 | |
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| IMP 6 | **2,460** | **0** | **2,460** | **98** | **305** |
| DMA 7.1 | 2,008 | 0 | 2,008 | 80 | |
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| DMA 8.1 | 16,960 | 0 | 16,960 | 678 | |
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| IMP 8 | **19,468** | **1,405** | **20,873** | **793** | **1,343** |
| DMA 9.1 | 2,408 | 5,050 | 7,458 | 147 | |
| IMP 9 | **2,408** | **5,050** | **7,458** | **147** | **1,711** |
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| IMP 10 | **2,052** | **0** | **2,052** | **82** | **725** |
| DMA 11.1 | 1,840 | 0 | 1,840 | 74 | |
| IMP 11 | **1,840** | **0** | **1,840** | **74** | **810** |
| DMA 12.1 | 23,891 | 9,347 | 33,238 | 1,049 | |
| IMP 12 | **23,891** | **9,347** | **33,238** | **1,049** | **1,138** |
| DMA 13.1 | 1,837 | 0 | 1,837 | 73 | |
| IMP 13 | **1,837** | **0** | **1,837** | **73** | **370** |
| | | | | | |

LEGEND

- PROPERTY LINE
- STORM DRAIN (HDPE)
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- 18"X18" STORM DRAIN DROP INLET UNLESS OTHERWISE NOTED
- 6" STORM AREA DRAIN
- 6" STORM POP UP EMITTER
- 12"X12" STORM JUNCTION BOX WITH SOLID TOP
- RAIN WATER LEADER

GRAPHIC SCALE

( IN FEET )
1 inch = 20 ft.

**OWNER:** SRCS VENETIA VALLEY K-8

**PROJECT NAME:** CLASSROOM REPLACEMENT AND NEW MPR BUILDING

**CLIENT ADDRESS:** 177 N SAN PEDRO RD, SAN RAFAEL, CA 94903

# DESIGN DEVELOPMENT SET

IDENTIFICATION STAMP

DB J. WYMA CB K. WONG

DATE 2017-08-11

**REVISIONS:**

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**DATE ISSUED:** 08/18/2017

**PROJECT NO:** 20171018

**SCALE:** AS INDICATED

**SHEET NUMBER:** C1.1

**SHEET TITLE:**

# STORM WATER CONTROL PLAN


BKF ENGINEERS SURVEYORS PLANNERS
100+ YEARS
300 FRANK OGAWA PLAZA, SUITE 380
OAKLAND, CA 94612
T 510.899.7300 WWW.BKF.COM

NOTES:

1. ONE BUBBLER SYMBOL IS SHOWN AT TREES FOR GRAPHIC CLARITY ONLY. INSTALL MINIMUM TWO BUBBLERS AT EACH TREE. INSTALL REQUIRED NUMBER OF BUBBLERS AS DETAILED.
2. IRRIGATION EQUIPMENT MAY BE SHOWN WITHIN HARDSCAPE FOR GRAPHIC CLARITY ONLY. INSTALL ALL IRRIGATION EQUIPMENT WITHIN PLANTED AREAS. IRRIGATION PIPE AND WIRE CROSSING BENEATH HARDSCAPE SURFACES SHALL BE CONTAINED WITHIN SLEEVING OR SCHEDULE 40 PVC CONDUIT. SLEEVING SIZE SHALL BE A MINIMUM OF TWO TIMES THE AGGREGATE DIAMETER OF ALL PIPES CONTAINED WITHIN SLEEVE. PROVIDE VERTICAL SWEEP FOR ALL ELECTRICAL CONDUIT ON EACH SIDE OF HARDSCAPE AND TERMINATE ENDS AT 12" MINIMUM DEPTH AND 12" FROM HARDSCAPE SURFACE.
3. UNSIZED LATERAL LINE PIPING LOCATED DOWN STREAM OF 1" PIPING SHALL BE 3/4" IN SIZE (TYPICAL).
4. SIZING OF LATERAL PIPE SHALL BE AS FOLLOWS:

| | |
|---|---|
| .75" | 0-6 GPM |
| 1" | 7-12 GPM |
| 1.25" | 13-20 GPM |
| 1.5" | 21-32 GPM |
| 2" | 33-50 GPM |
| 2 1/2" | 51-70 GPM |
| 3" | 71-110 GPM |

5. SIZING OF LATERAL PIPE FOR DRIPLINE (12" O.C. GRID WITH 0.6 GPH OR LESS EMITTERS) SHALL BE AS FOLLOWS:

| | |
|---|---|
| .75" | 0-500 FT |
| 1" | 501-1100 FT |
| 1.25" | 1101-2000 FT |
| 1.5" | 2001-3000 FT |

6. SIZING OF LATERAL PIPE FOR DRIPLINE (18" O.C. GRID WITH 0.6 GPH OR LESS EMITTERS) SHALL BE AS FOLLOWS:

| | |
|---|---|
| .75" | 0-1100 FT |
| 1" | 1101-2200 FT |
| 1.25" | 2201-3600 FT |
| 1.5" | 3601-4800 FT |

**OWNER:** SRCS VENETIA VALLEY K-8

**PROJECT NAME:** CLASSROOM REPLACEMENT AND NEW MPR BUILDING

**CLIENT ADDRESS:** 177 N San Pedro Rd, San Rafael, CA 94903

**DESIGN DEVELOPMENT SET**

**SEAL:**

IDENTIFICATION STAMP
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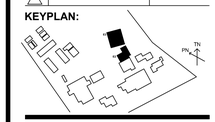
**KEYPLAN:**



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| **DATE ISSUED:** | 08/18/2017 |
| **PROJECT NO:** | 2017 - 40140 |
| **SCALE:** | 1" = 20'-0" |

**SHEET NUMBER:** L4.00

**SHEET TITLE:** IRRIGATION PLAN

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## IRRIGATION NOTES

1. THESE IRRIGATION DRAWINGS ARE DIAGRAMMATIC AND INDICATIVE OF THE WORK TO BE INSTALLED. ALL PIPING, VALVES, AND OTHER IRRIGATION COMPONENTS MAY BE SHOWN WITHIN PAVED AREAS FOR GRAPHIC CLARITY ONLY AND ARE TO BE INSTALLED WITHIN PLANTING AREAS. DUE TO THE SCALE OF THE DRAWINGS, IT IS NOT POSSIBLE TO INDICATE ALL OFFSETS, FITTINGS, SLEEVES, CONDUIT, AND OTHER ITEMS WHICH MAY BE REQUIRED. INVESTIGATE THE STRUCTURAL AND FINISHED CONDITION AFFECTING THE CONTRACT WORK INCLUDING OBSTRUCTIONS, GRADE DIFFERENCES OR AREA DIMENSIONAL DIFFERENCES. IN THE EVENT OF FIELD DISCREPANCY WITH CONTRACT DOCUMENTS, PLAN THE INSTALLATION WORK ACCORDINGLY BY NOTIFICATION AND APPROVAL OF THE OWNER'S AUTHORIZED REPRESENTATIVE AND ACCORDING TO THE CONTRACT SPECIFICATIONS. NOTIFY AND COORDINATE IRRIGATION CONTRACT WORK WITH APPLICABLE CONTRACTORS FOR THE LOCATION AND INSTALLATION OF PIPE, CONDUIT OR SLEEVES THROUGH OR UNDER WALLS, ROADWAYS, PAVING AND STRUCTURES BEFORE CONSTRUCTION. IN THE EVENT THESE NOTIFICATIONS ARE NOT PERFORMED, THE CONTRACTOR ASSUMES FULL RESPONSIBILITY FOR REQUIRED REVISIONS.

2. THE CONTRACTOR SHALL COMPLY WITH ALL APPLICABLE CODES, STANDARDS, AND REGULATIONS. ALL WORK AND MATERIALS SHALL BE IN FULL ACCORDANCE WITH THE LATEST RULES AND REGULATIONS OF THE NATIONAL ELECTRIC CODE; THE UNIFORM PLUMBING CODE, PUBLISHED BY THE WESTERN PLUMBING OFFICIALS ASSOCIATION; AND OTHER STATE OR LOCAL LAWS OR REGULATIONS. NOTHING IN THESE DRAWINGS IS TO BE CONSTRUED TO PERMIT WORK NOT CONFORMING TO THESE CODES OR REGULATIONS. THE CONTRACTOR SHALL FURNISH WITHOUT ANY EXTRA CHARGE, ANY ADDITIONAL MATERIAL AND LABOR WHEN REQUIRED BY THE COMPLIANCE WITH THESE CODES AND REGULATIONS.

3. THE CONTRACTOR SHALL COORDINATE INSTALLATION OF IRRIGATION SYSTEM WITH LAYOUT AND INSTALLATION OF THE PLANT MATERIALS TO INSURE THAT THERE WILL BE COMPLETE AND UNIFORM IRRIGATION COVERAGE OF PLANTING IN ACCORDANCE WITH THESE DRAWINGS, AND CONTRACT DOCUMENTS. THE IRRIGATION LAYOUT SHALL BE CHECKED BY THE CONTRACTOR AND OWNER'S AUTHORIZED REPRESENTATIVE PRIOR TO CONSTRUCTION TO DETERMINE IF ANY CHANGES, DELETIONS, OR ADDITIONS ARE REQUIRED. IRRIGATION SYSTEM SHALL BE INSTALLED AND TESTED PRIOR TO INSTALLATION OF PLANT MATERIAL.

4. THE INTENT OF THIS IRRIGATION SYSTEM IS TO PROVIDE THE MINIMUM AMOUNT OF WATER REQUIRED TO SUSTAIN GOOD PLANT HEALTH.

5. IT IS THE RESPONSIBILITY OF THE MAINTENANCE CONTRACTOR AND/OR OWNER TO PROGRAM THE IRRIGATION CONTROLLER(S) TO PROVIDE THE MINIMUM AMOUNT OF WATER NEEDED TO SUSTAIN GOOD PLANT HEALTH. THIS INCLUDES MAKING ADJUSTMENTS TO THE PROGRAM FOR SEASONAL WEATHER CHANGES, PLANT MATERIAL, WATER REQUIREMENTS, MOUNDS, SLOPES, SUN, SHADE AND WIND EXPOSURE.

6. IT IS THE RESPONSIBILITY OF A LICENSED ELECTRICAL CONTRACTOR TO PROVIDE 120 VOLT A.C. (2.5 AMP DEMAND PER CONTROLLER) ELECTRICAL SERVICE TO THE CONTROLLER LOCATION(S). IT IS THE RESPONSIBILITY OF THE IRRIGATION CONTRACTOR TO COORDINATE THE ELECTRICAL SERVICE STUB-OUT TO THE CONTROLLER(S). PROVIDE PROPER GROUNDING PER CONTROLLER MANUFACTURER'S INSTRUCTIONS AND IN ACCORDANCE WITH LOCAL CODES.

7. PROVIDE EACH IRRIGATION CONTROLLER WITH ITS OWN INDEPENDENT LOW VOLTAGE COMMON GROUND WIRE.

8. SCHEDULE A MEETING WHICH INCLUDES REPRESENTATIVES OF THE IRRIGATION CONTROLLER MANUFACTURER, THE MAINTENANCE CONTRACTOR, THE OWNER AND THE IRRIGATION CONTRACTOR AT THE SITE FOR INSTRUCTION ON THE PROPER PROGRAMMING AND OPERATION OF THE IRRIGATION CONTROLLER.

9. IRRIGATION CONTROL WIRES: SOLID COPPER WITH U.L. APPROVAL FOR DIRECT BURIAL IN GROUND. CONTROL WIRE SERVICING REMOTE CONTROL VALVES: SIZE #14-1 WIRE WITH A UNIQUE COLOR INSULATING JACKET FOR EACH CONTROLLER. COMMON GROUND WIRE: SIZE #12-1 WIRE WITH A WHITE INSULATING JACKET AND A STRIPE OF COLOR WHICH MATCH'S THE CONTROL WIRE COLOR CHOICE FOR SPECIFIC CONTROLLER. SPARE WIRE: #14-1 WIRE WITH BLACK INSULATION JACKET. SPLICES SHALL BE MADE WITH 3M-DBR/Y-6 SEAL PACKS OR APPROVED EQUAL.

10. INSTALL TWO SPARE CONTROL WIRES ALONG THE ENTIRE WIRE ROUTING FOR EACH CONTROLLER. LOOP 36" EXCESS WIRE INTO EACH SINGLE VALVE BOX AND INTO ONE VALVE BOX IN EACH GROUP OF VALVES.

11. INSTALL 3" DETECTABLE TAPE ABOVE ALL PRESSURIZED MAIN LINES AS DETAILED. USE CHRISTY MODEL #TA-DT-2-BIRR FOR POTABLE IRRIGATION SYSTEMS OR #TA-DT-2-PIRR FOR RECYCLED IRRIGATION WATER SYSTEMS.

12. SPLICING OF LOW VOLTAGE WIRES IS PERMITTED IN VALVE BOXES ONLY. LEAVE A 36" LONG, 1" DIAMETER COIL OF EXCESS WIRE AT EACH SPLICE AND A 36" LONG EXPANSION LOOP EVERY 100 FEET ALONG WIRE RUN. TAPE WIRES TOGETHER EVERY TEN FEET. DO NOT TAPE WIRES TOGETHER WHERE CONTAINED WITHIN SLEEVING OR CONDUIT.

13. INSTALL (GREEN,BLACK,PURPLE) PLASTIC VALVE BOXES WITH BOLT DOWN, NON HINGED COVER MARKED "IRRIGATION". BOX BODY SHALL HAVE KNOCK OUTS. ACCEPTABLE VALVE BOX MANUFACTURER'S INCLUDE NDS, CARSON OR APPROVED EQUAL.

14. INSTALL REMOTE CONTROL VALVE BOXES 12" FROM WALK, CURB, LAWN, HEADER BOARD, BUILDING, OR LANDSCAPE FEATURE. AT MULTIPLE VALVE BOX GROUPS, INSTALL EACH BOX AN EQUAL DISTANCE FROM THE WALK, CURB, LAWN, HEADER BOARD, BUILDING, OR LANDSCAPE FEATURE, AND PROVIDE 12" FROM THE WALK, CURB, HEADER BOARD, BUILDING, OR LANDSCAPE FEATURE AND INSTALL EACH BOX 12" APART.

15. VALVE LOCATIONS SHOWN ARE DIAGRAMMATIC. INSTALL IN GROUND COVER/SHRUB AREAS (AVOID LAWN AREAS WHERE POSSIBLE).

16. THE CONTRACTOR SHALL LABEL CONTROL LINE WIRE AT EACH REMOTE CONTROL VALVE WITH A 2 1/4" X 2 3/4" POLYURETHANE I.D. TAG, INDICATING IDENTIFICATION NUMBER OF VALVE (CONTROLLER AND STATION NUMBER). ATTACH LABEL TO CONTROL WIRE. THE CONTRACTOR SHALL PERMANENTLY STAMP ALL VALVE BOX LIDS WITH APPROPRIATE IDENTIFICATION AS NOTED IN CONSTRUCTION DETAILS.

17. THE REMOTE CONTROL VALVES SPECIFIED ON THE DRAWINGS IS A PRESSURE REDUCING TYPE. SET THE DISCHARGE PRESSURE AS FOLLOWS:

A. SPRAY HEADS=40 PSI
B. ROTARY HEADS=60 PSI
C. DRIP EMITTERS=35 PSI
D. BUBBLERS= 30 PSI

18. INSTALL A GATE VALVE TO ISOLATE EACH REMOTE CONTROL VALVE OR GROUP OF RCV'S LOCATED TOGETHER. GATE VALVE SIZE SHALL BE SAME AS THE LARGEST REMOTE CONTROL VALVE IN MANIFOLD.

19. FLUSH AND ADJUST IRRIGATION OUTLETS AND NOZZLES FOR OPTIMUM PERFORMANCE AND TO PREVENT OVER SPRAY ONTO WALKS, ROADWAYS, AND/OR BUILDINGS. SELECT THE BEST DEGREE OF THE ARC AND RADIUS TO FIT THE EXISTING SITE CONDITIONS AND THROTTLE THE FLOW CONTROL AT EACH VALVE TO OBTAIN THE OPTIMUM OPERATING PRESSURE FOR EACH CONTROL ZONE.

20. SET SPRINKLER HEADS PERPENDICULAR TO FINISH GRADE.

21. LOCATE EMITTER OUTLETS ON UPHILL SIDE OF PLANT OR TREE.

22. LOCATE BUBBLERS ON UPHILL SIDE OF PLANT OR TREE.

23. INSTALL A HUNTER HCV SERIES, KBI CV SERIES, OR APPROVED EQUAL SPRING LOADED CHECK VALVE IN SPRINKLER RISER ASSEMBLIES WHERE LOW OUTLET DRAINAGE WILL CAUSE EROSION AND/OR EXCESS WATER.

24. WHERE IT IS NECESSARY TO EXCAVATE ADJACENT TO EXISTING TREES, USE CAUTION TO AVOID INJURY TO TREES AND TREE ROOTS. EXCAVATE BY HAND IN AREAS WHERE TWO (2) INCH AND LARGER ROOTS OCCUR. BACK FILL TRENCHES ADJACENT TO TREE WITHIN TWENTY-FOUR (24) HOURS. WHERE THIS IS NOT POSSIBLE, SHADE THE SIDE OF THE TRENCH ADJACENT TO THE TREE WITH WET BURLAP OR CANVAS.

25. THE IRRIGATION SYSTEM DESIGN IS BASED ON THE MINIMUM OPERATING PRESSURE SHOWN ON THE IRRIGATION DRAWINGS. VERIFY WATER PRESSURE PRIOR TO CONSTRUCTION. REPORT ANY DIFFERENCE BETWEEN THE WATER PRESSURE INDICATED ON THE DRAWINGS AND THE ACTUAL PRESSURE READING AT THE IRRIGATION POINT OF CONNECTION TO THE OWNER'S AUTHORIZED REPRESENTATIVE.

26. IRRIGATION DEMAND: REFER TO PLANS.

27. THE EXISTING MAIN LINE SHOWN ON THE DRAWINGS IS DIAGRAMMATIC. VERIFY AND LOCATE EXISTING MAIN LINE IN FIELD. REPORT TO ARCHITECT IN WRITING ANY DEVIATION OF EXISTING MAIN LINE LOCATION FROM THAT SHOWN ON THE DRAWINGS.

28. AT POINTS OF CONNECTION BETWEEN EXISTING MAIN LINE AND A NEW MAIN LINE BRANCH, USE THE FOLLOWING PROCEDURE:

A. REMOVE A PORTION OF EXISTING MAINLINE
B. FABRICATE A TEE AND NIPPLE ASSEMBLY REQUIRED FOR CONNECTION OF NEW MAIN LINE BETWEEN REMOVED PORTION OF EXISTING MAIN LINE. REFER TO SPECIFICATIONS FOR TYPE OF FITTINGS AND PIPE REQUIRED.

29. PIPE SIZING SHOWN ON THE DRAWINGS IS TYPICAL. AS CHANGES IN LAYOUT OCCUR DURING STAKING AND CONSTRUCTION THE SIZE MAY NEED TO BE ADJUSTED ACCORDINGLY.

30. PIPE THREAD SEALANT COMPOUND SHALL BE RECTOR SEAL #5.

31. THE LANDSCAPE CONTRACTOR SHALL BE RESPONSIBLE FOR MINOR CHANGES IN THE IRRIGATION LAYOUT DUE TO OBSTRUCTIONS NOT SHOWN ON THE IRRIGATION DRAWINGS SUCH AS LIGHTS, FIRE HYDRANTS, SIGNS, ELECTRICAL ENCLOSURES, ETC.

32. THE LANDSCAPE CONTRACTOR SHALL BE RESPONSIBLE FOR CHANGES IN THE IRRIGATION LAYOUT AND VALVE ZONING DUE TO VARIATIONS IN THE EXISTING SITE CONDITIONS SUCH AS EXPOSURE FROM BUILDINGS, TRELLISES, TREES, ETC., AS WELL AS SLOPE AND SOIL CONDITIONS. THE CONTRACTOR SHALL NOTIFY THE LANDSCAPE ARCHITECT AND IRRIGATION CONSULTANT OF THE PROPOSED CHANGES PRIOR TO INSTALLATION FOR APPROVAL.

33. THE LANDSCAPE CONTRACTOR IS RESPONSIBLE FOR ADJUSTING THE IRRIGATION SYSTEM DESIGN IF THE PLANTING DESIGN CHANGES FROM THE ORIGINAL PLAN AND NEEDS TO ADAPT TO THE NEW PLANTING DESIGN. THE LANDSCAPE CONTRACTOR NEEDS TO NOTIFY THE LANDSCAPE ARCHITECT AND IRRIGATION CONSULTANT OF PROPOSED CHANGES PRIOR TO INSTALLATION FOR APPROVAL.

34. WHEN WORK OF THIS SECTION HAS BEEN COMPLETED AND SUCH OTHER TIMES AS MAY BE DIRECTED, REMOVE ALL TRASH, DEBRIS, SURPLUS MATERIALS AND EQUIPMENT FROM SITE.

35. CONTRACTOR SHALL BE RESPONSIBLE FOR SUPPLEMENTAL HAND WATERING OF ALL PLANT MATERIAL WITHIN DRIPLINE AREAS UNTIL THE PLANTS ARE SUFFICIENTLY ESTABLISHED.

36. VERIFY LOCATIONS OF ALL IRRIGATION COMPONENTS INSTALLED WITHIN A VALVE BOX WITH LANDSCAPE ARCHITECT PRIOR TO INSTALLATION. DO NOT INSTALL UNTIL LANDSCAPE ARCHITECT PROVIDES ACCEPTABLE LOCATIONS.

## IRRIGATION WATER USE CALCULATIONS (SAVED FOR FUTURE USE)


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www.rmairrigation.com


**OWNER:** SRCS VENETIA VALLEY K-8

**PROJECT NAME:** CLASSROOM REPLACEMENT AND NEW MPR BUILDING

**CLIENT ADDRESS:** 177 N San Pedro Rd, San Rafael, CA 94903

**DESIGN DEVELOPMENT SET**

**SEAL:**

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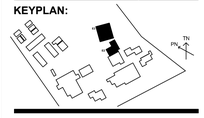

**DATE ISSUED:** 08/18/2017

**PROJECT NO:** 2017 - 40140

**SCALE:** As Indicated

**SHEET NUMBER:** L-04.1

**SHEET TITLE:** IRRIGATION NOTES AND CALCULATIONS


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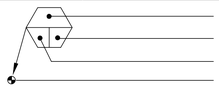
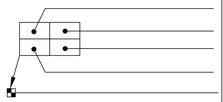
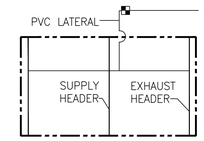
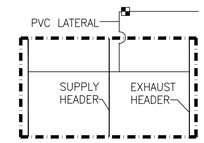
## IRRIGATION LEGEND

| SYMBOL | DESCRIPTION |
|---|---|
|  | CONTROLLER AND STATION NUMBER<br>FLOW (GPM)<br>REMOTE CONTROL VALVE SIZE (IN INCHES)<br>ASSOCIATED REMOTE CONTROL VALVE |
|  | CONTROLLER AND STATION NUMBER<br>AREA (SQ. FT.)<br>FLOW (GPM)<br>REMOTE CONTROL VALVE SIZE (IN INCHES)<br>ASSOCIATED REMOTE CONTROL VALVE |
| | MAIN LINE: 2 1/2" AND SMALLER: 1120–SCHEDULE 40 PVC PLASTIC PIPE WITH SCHEDULE 40 PVC SOLVENT WELD FITTINGS. 18" COVER. |
| | LATERAL LINE: 3/4" AND LARGER: 1120–SCHEDULE 40 PVC PLASTIC PIPE WITH SCHEDULE 40 PVC SOLVENT WELD FITTINGS. 12" COVER. |
| | SLEEVING: SCHEDULE 40 PVC PLASTIC PIPE. COVER TO BE AS INDICATED IN SPECIFICATIONS OR AS INDICATED ABOVE FOR PIPE DEPTH OF COVER. |
| | NOTE: ALL PIPE SHALL BE PW PIPE "PW PURPLE PLUS", APACHE "PURPLE PIPE", OR APPROVED EQUAL FOR USE WITH RECYCLED WATER SYSTEMS. |
|  | DRIPLINE REMOTE CONTROL VALVE<br>DRIP ZONE: TORO DL2000 SERIES DRIPLINE WITH TRI–LOC FITTINGS, PART #RGP–218. TUBING TO BE INSTALLED 4" BELOW GRADE IN A 18" O.C. GRID ACCORDING TO DETAILS. SIZE EXHAUST HEADERS AS FOLLOWS: 1": 0–10 GPM, 1.25": 11–20 GPM. ALL EXHAUST HEADERS SHALL BE 1" SCH 40 PVC OR 1" SCH 40 FLEXIBLE PVC. USE SCH. 40 PVC SOLVENT WELD FITTINGS. EXTEND PVC HEADERS TO THE ENDS OF ALL DRIP ZONES TO BALANCE FLOW IF REQUIRED. SEE DETAILS FOR FURTHER INFORMATION. |
|  | DRIPLINE REMOTE CONTROL VALVE<br>DRIP ZONE: TORO DL2000 SERIES DRIPLINE WITH TRI–LOC FITTINGS, PART #RGP–212. TUBING TO BE INSTALLED 4" BELOW GRADE IN A 12" O.C. GRID ACCORDING TO DETAILS. SIZE EXHAUST HEADERS AS FOLLOWS: 1": 0–10 GPM, 1.25": 11–20 GPM. ALL EXHAUST HEADERS SHALL BE 1" SCH 40 PVC OR 1" SCH 40 FLEXIBLE PVC. USE SCH. 40 PVC SOLVENT WELD FITTINGS. EXTEND PVC HEADERS TO THE ENDS OF ALL DRIP ZONES TO BALANCE FLOW IF REQUIRED. SEE DETAILS FOR FURTHER INFORMATION. |
| FS FS | FLOW SENSOR/ MASTER CABLE: APPROXIMATE ROUTING OF FLOW SENSOR AND MASTER VALVE WIRES IN SEPARATE 1" CONDUITS. REFER TO DETAILS FOR MORE INFORMATION. |

## IRRIGATION LEGEND

| SYMBOL | MODEL NUMBER | DESCRIPTION | NOZZLE GPM | OPERATING PSI | OPERATING RADIUS (FEET) |
|---|---|---|---|---|---|
| | I–25–06–SS–13 | HUNTER POP–UP GEAR DRIVEN ROTOR (LAWN) | 12.3 | 60 | 40–50 |
| | I–25–06–SS–13 | HUNTER POP–UP GEAR DRIVEN ROTOR (LAWN) | 12.3 | 60 | 40–50 |
| | I–25–06–SS–08 | HUNTER POP–UP GEAR DRIVEN ROTOR (LAWN) | 8.3 | 60 | 40–50 |
| | 1806–SAM–PRS/ HE–VAN–15 | RAIN BIRD POP–UP SPRAY SPRINKLER (LAWN) | 3.7,1.8,0.9 | 30 | 12–15 |
| | 1806–SAM–PRS/ HE–VAN–12 | RAIN BIRD POP–UP SPRAY SPRINKLER (LAWN) | 2.4,1.2,0.6 | 30 | 10–12 |
| | 1806–SAM–PRS/ HE–VAN–10 | RAIN BIRD POP–UP SPRAY SPRINKLER (LAWN) | 1.8,0.9,0.45 | 30 | 8–10 |
| | 1806–SAM–PRS/ HE–VAN–8 | RAIN BIRD POP–UP SPRAY SPRINKLER (LAWN) | 1.2,0.6,0.3 | 30 | 6–8 |
| | 1806–SAM–PRS/ HE–VAN–8 | RAIN BIRD POP–UP SPRAY SPRINKLER (LAWN) | 0.2,0.1 | 30 | 4–5 |
| | 1806–SAM–PRS–15 SST | RAIN BIRD POP–UP SIDE STRIP SPRAY SPRINKLER (LAWN) | 1.2 | 30 | 4 x 30 |
| | 1806–SAM–PRS–15 EST | RAIN BIRD POP–UP END STRIP SPRAY SPRINKLER (LAWN) | 0.5 | 30 | 4 x 15 |
| | 1401 SERIES | RAIN BIRD BUBBLER (SHRUB) | 0.25 | 30 | TRICKLE |
| | 1401 SERIES | RAIN BIRD BUBBLER (TREE) 2 PER TREE. REFER TO BUBBLER DETAIL FOR QUANTITY OF BUBBLERS PER TREE SIZE. | 0.5 | 30 | TRICKLE |
| | | | | 30 | STREAM |
| | T–YD–500–34 | TORO AIR RELIEF VALVE | | | |
| | T–FJJ16 | TORO FLUSH VALVE | | | |
| | 570Z–6P–SI–PRX/ O–T–5–QP | TORO POP–UP SPRINKLER WITH SIDE INLET AND A CLOSED 5' NOZZLE TO BE USED AS DRIPLINE INDICATOR | | | |
| | – | APPROXIMATE CONNECTION POINT BETWEEN DRIPLINE TUBING AND PVC SUPPLY. REFER TO DRIPLINE TUBING CONNECTION DETAIL FOR MORE INFORMATION. | | | |
| | 700–1/OMR–100 | IRRITROL REMOTE CONTROL VALVE WITH A PRESSURE REGULATOR | | | |
| | 700–1/OMR–100/ T–ALFD10150–L | IRRITROL REMOTE CONTROL VALVE WITH A PRESSURE REGULATOR (SET TO 40 PSI) AND A 1" DISC FILTER | | | |
| | 33 DNP | RAIN BIRD QUICK COUPLING VALVE | | | |
| | LGT–XX–SS | LEEMCO STAINLESS STEEL GATE VALVE (LINE SIZE)–2.5" AND SMALLER | | | |
| | 2160 | GRISWOLD MASTER VALVE (NORMALLY OPEN) | | | |
| | FS–B200 | RAIN MASTER FLOW SENSOR | | | |
| | – | EXISTING REDUCED PRESSURE BACKFLOW ASSEMBLY | | | |
| C | EGP–i–SPED | RAIN MASTER EAGLE PLUS CONTROLLER IN A STAINLESS STEEL PEDESTAL ENCLOSURE; INCLUDES I–CARD AND TWO YEARS RAIN MASTER I–CENTRAL SERVICE. | | | |
| – | RM–ISVC–2Y | ADDITIONAL 2 YEARS OF PREMIUM (FREEDOM) WIRELESS DATA SERVICE AND ZIPET FOR RAIN MASTER iCENTRAL CONTROL SYSTEM | | | |
| R | RS–500 | IRRITROL WIRELESS RAIN SENSOR | | | |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**PROJECT NAME:** CLASSROOM REPLACEMENT AND NEW MPR BUILDING

**CLIENT ADDRESS:** 177 N San Pedro Rd, San Rafael, CA 94903

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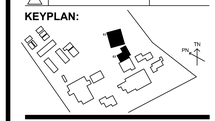

**DATE ISSUED:** 08/18/2017

**PROJECT NO:** 2017 - 40140

**SCALE:** As Indicated

**SHEET NUMBER:** L-04.2

**SHEET TITLE:** IRRIGATION LEGEND


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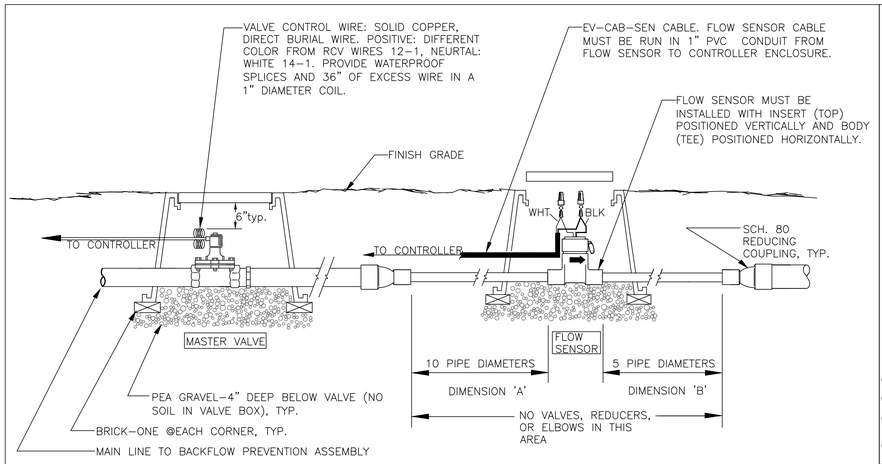
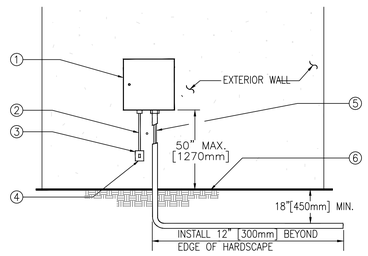
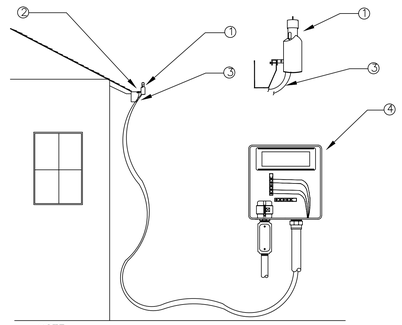



1 RAIN MASTER FLOW SENSOR & MASTER VALVE INSTALLATION
SCALE: NONE




① IRRIGATION CONTROLLER.
② 120 VOLT SERVICE IN RIGID STEEL CONDUIT.
③ 120 VOLT LOCKABLE WEATHERPROOF ON/OFF SWITCH PROVIDED UNDER IRRIGATION CONTRACT.
④ 120 VOLT SERVICE TO CONTROLLER LOCATION PROVIDED BY CONTRACTOR.
⑤ LOW VOLTAGE WIRE IN GRAY SCHEDULE 40 PVC CONDUIT.
⑥ FINISH GRADE OR HARDSCAPE.

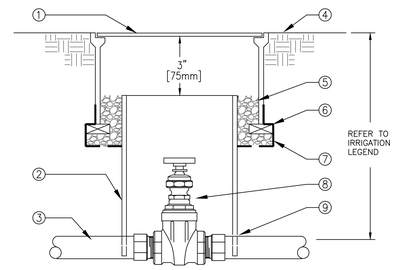
2 CONTROLLER – EXTERIOR WALL MOUNTED
SCALE: NONE



NOTE: IF DISTANCE FROM SENSOR TO CONTROLLER IS GREATER THAT 25 FEET A CABLE EXTENSION WILL BE REQUIRED.

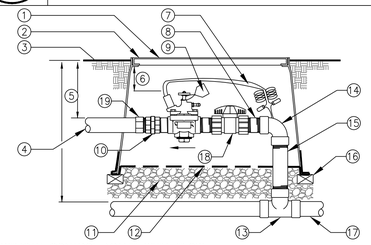
① RAIN SENSOR
② MOUNT RAIN SENSOR ON GUTTER/EVE
③ GUTTER
④ CONTROLLER

3 RAIN SENSOR-GUTTER MOUNT
SCALE: NONE



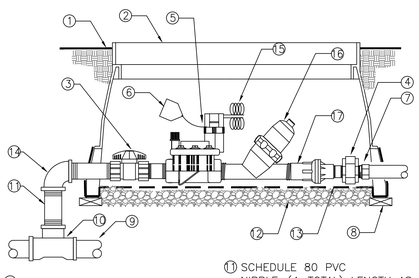

① 10" ROUND PLASTIC VALVE BOX WITH BOLT DOWN LID.
② 8" [200mm] CLASS 160 OR SCHEDULE 40 PVC PIPE (NOTCH TO FIT OVER MAIN LINE PIPE).
③ PVC MAIN LINE.
④ FINISH GRADE.
⑤ PEA GRAVEL OR 3/4" [20mm] DRAIN ROCK – 4" [100mm] DEEP (NO SOIL IN VALVE BOX).
⑥ BRICK-2 TOTAL.
⑦ 19 GAUGE 1/2" [13mm] SQUARE WIRE MESH.
⑧ GATE VALVE.
⑨ MALE ADAPTER. REFER TO LEGEND FOR FITTING TYPE.

4 GATE VALVE – 3" [75mm] AND SMALLER
SCALE: NONE



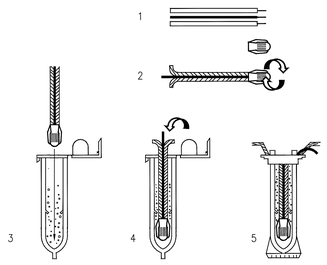
① REMOTE CONTROL VALVE WITH FLOW CONTROL AND MANUAL BLEED (PRESSURE REGULATOR WHERE SHOWN ON PLANS).
② USE A 14" X 19" RECTANGULAR PLASTIC VALVE BOX WITH BOLT DOWN LID FOR 1" VALVES. FOR 1.5" AND LARGER VALVES INSTALL BALL VALVE WITHIN A SEPARATE 10" ROUND BOX OR ONE BALL VALVE PER MANIFOLD OF VALVES. GATE VALVE SIZE SHALL BE SAME AS LARGEST VALVE WITHIN MANIFOLD. ONE VALVE PER BOX– NO EXCEPTIONS. INSTALL BOX AS SHOWN IN BOX INSTALLATION DETAIL.
③ FINISH GRADE.
④ PVC LATERAL LINE.
⑤ REFER TO IRRIGATION SPECS.
⑥ 3" [75mm] MIN, 6" [150mm] MAX.
⑦ VALVE CONTROL WIRE– PROVIDE SEAL PACKS AT ALL SPLICES AND 3' [1m] OF EXCESS UF WIRE IN A 1" [25mm] DIAMETER COIL.
⑧ SCHEDULE 80 PVC NIPPLE (3 TOTAL).
⑨ VALVE I.D. TAG (CONTROLLER AND STATION NUMBER).
⑩ SCHEDULE 80 PVC THREADED UNION.
⑪ PEA GRAVEL OR 3/4" DRAIN ROCK– 4" [100mm] DEEP BELOW VALVE (NO SOIL IN VALVE BOX).
⑫ 19 GAUGE 1/2" [12mm] SQUARE WIRE MESH.
⑬ UPC APPROVED SCHEDULE 40 PVC TEE.
⑭ SCHEDULE 80 PVC 90° ELBOW (TxT).
⑮ SCHEDULE 80 PVC NIPPLE– LENGTH AS REQUIRED.
⑯ BRICK–1 EACH CORNER.
⑰ PVC MAIN LINE.
⑱ SCHEDULE 80 PVC UNION BALL VALVE (ONE PER VALVE).
⑲ SCHEDULE 40 MALE ADAPTER

5 REMOTE CONTROL VALVE
SCALE: NONE



① FINISH GRADE
② RECTANGULAR JUMBO PLASTIC VALVE BOX WITH BOLT DOWN LID. ONE VALVE PER BOX– NO EXCEPTIONS. INSTALL BOX AS SHOWN IN BOX INSTALLATION DETAIL.
③ SCHEDULE 80 PVC UNION BALL VALVE (ONE PER VALVE)
④ SCHEDULE 80 PVC THREADED UNION
⑤ REMOTE CONTROL VALVE
⑥ VALVE I.D. TAG (CONTROLLER AND STATION NUMBER).
⑦ SCHEDULE 40 MALE ADAPTER
⑧ BRICK–1 EACH CORNER.
⑨ PVC MAIN LINE.
⑩ UPC APPROVED SCHEDULE 40 PVC TEE.
⑪ SCHEDULE 80 PVC NIPPLE–(4–TOTAL) LENGTH AS REQUIRED.
⑫ PEA GRAVEL OR 3/4" [20mm] DRAIN ROCK – 4" [102mm] DEEP BELOW VALVE (NO SOIL IN VALVE BOX).
⑬ 19 GAUGE 1/2" [13mm] SQUARE WIRE MESH.
⑭ SCHEDULE 80 PVC 90° ELBOW (TxT).
⑮ VALVE CONTROL WIRE– PROVIDE 3M–DBY SEAL PACKS AT ALL SPLICES AND 3' [1m] OF EXCESS UF WIRE IN A 1" [25mm] DIAMETER COIL.
⑯ DISC FILTER
⑰ PRESSURE REGULATOR (40 PSI)

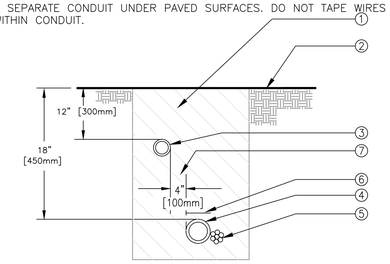
6 REMOTE CONTROL VALVE (DRIPZONE)
SCALE: NONE




INSTRUCTIONS:
1. STRIP WIRES APPROXIMATELY 1/2" (13 mm) TO EXPOSE WIRE.
2. TWIST CONNECTOR AROUND WIRES CLOCKWISE UNTIL HAND TIGHT, DO NOT OVERTIGHTEN.
3. INSERT WIRE ASSEMBLY INTO PLASTIC TUBE UNTIL WIRE CONNECTOR SNAPS PAST LIP IN BOTTOM OF TUBE.
4. PLACE WIRES WHICH EXIT TUBE IN WIRE EXIT HOLES AND CLOSE CAP UNTIL IT SNAPS.
5. INSPECT FINAL SPLICE ASSEMBLY TO BE SECURE AND FINISHED.

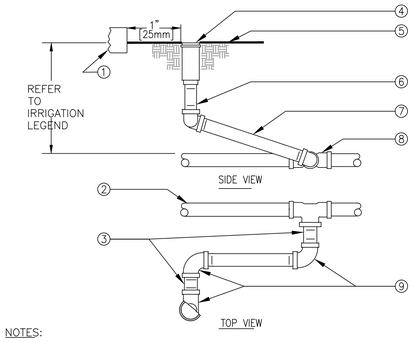
7 WEATHERPROOF WIRE SPLICE ASSEMBLY
SCALE: NONE

NOTES:
1. ALL MAIN SUPPLY LINES AND LATERAL LINES SHALL BE PLACED IN SLEEVES UNDER PAVED SURFACES. INSTALL LOW VOLTAGE WIRES WITHIN A SEPARATE CONDUIT UNDER PAVED SURFACES. DO NOT TAPE WIRES WITHIN CONDUIT.




① CLEAN BACKFILL MATERIAL.
② FINISH GRADE.
③ LATERAL LINE.
④ MAIN LINE.
⑤ LOW VOLTAGE CONTROL WIRE. TAPE AND BUNDLE TUBING OR WIRING AT 10 FT. INTERVALS. WIRING SHALL BE LAID OUT LOOSELY IN THE TRENCH.
⑥ 2" DETECTABLE WARNING TAPE OVER MAIN LINE – 3" [75mm] ABOVE PIPE. USE CHRISTY MODEL #TA–DT–2–BIRR FOR POTABLE IRRIGATION SYSTEMS OR #TA–DT–2–PIRR FOR RECYCLED IRRIGATION WATER SYSTEMS
⑦ TYPICAL DISTANCE BETWEEN PIPES.

8 TRENCHING
SCALE: NONE




NOTES:
1. SET SPRINKLER 1" [25mm] ABOVE FINISH GRADE AT TIME OF INSTALLATION – LOWER TO FINISH GRADE WHEN TURF IS WELL ESTABLISHED.
2. NIPPLES AND FITTINGS TO BE SAME IPT SIZE AS ROTARY SPRINKLER IPT INLET THREAD SIZE.

① WALL, WALK, CURB OR HEADER
② PVC LATERAL LINE
③ 3" [75mm] LONG SCHEDULE 80 PVC THREADED NIPPLE
④ POP–UP ROTARY SPRINKLER
⑤ FINISH GRADE
⑥ SCHEDULE 80 PVC THREADED NIPPLE (LENGTH AS REQUIRED)
⑦ 10" [250mm] LONG SCHEDULE 80 PVC THREADED NIPPLE
⑧ UPC APPROVED SCHEDULE 40 PVC TEE OR ELBOW
⑨ SCHEDULE 80 PVC THREADED 90° ELL

9 POP–UP ROTARY SPRINKLER – TURF
SCALE: NONE

**OWNER:** SRCS VENETIA VALLEY K-8

**PROJECT NAME:** CLASSROOM REPLACEMENT AND NEW MPR BUILDING

**CLIENT ADDRESS:** 177 N San Pedro Rd, San Rafael, CA 94903

**DESIGN DEVELOPMENT SET**

SEAL:

IDENTIFICATION STAMP
DIVISION OF THE STATE ARCHITECT
OFFICE OF REGULATION SERVICES
A#
AC_____ FLS _____ SS _____
DATE _____

REVISIONS:

| | DESCRIPTION | DATE |
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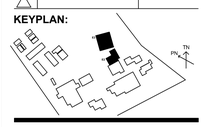
KEYPLAN:



DATE ISSUED: 08/18/2017
PROJECT NO: 2017 - 40140
SCALE: As Indicated
SHEET NUMBER: L-04.3
SHEET TITLE: IRRIGATION DETAILS

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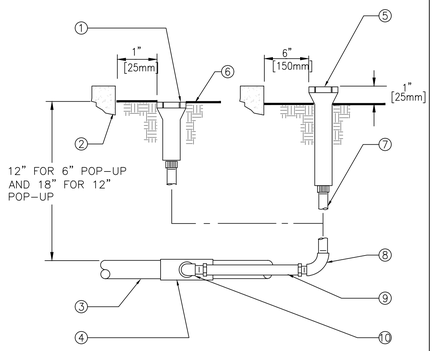
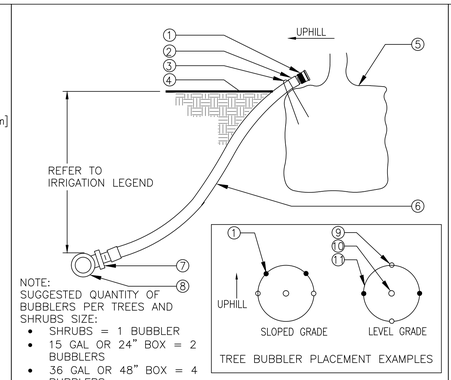



① POP-UP LAWN SPRAY SPRINKLER
② WALL, WALK, CURB OR BUILDING
③ PVC LATERAL LINE
④ UPC APPROVED SCHEDULE 40 PVC TEE OR ELBOW
⑤ POP-UP SHRUB SPRAY SPRINKLER OR BUBBLER
⑥ FINISH GRADE
⑦ 1/2" [13mm] SCHEDULE 80 PVC THREADED NIPPLE (LENGTH AS REQUIRED).
⑧ 1/2" [13mm] SCHEDULE 40 PVC THREADED 90° ELL.
⑨ 1/2" [13mm] FLEXIBLE IPS HOSE 6" [150mm] LONG WITH MALE ADAPTERS OR 1/2" [13mm] FLEXIBLE SWING JOINT (1/2" x 6") [13mm x 150mm] WITH A MINIMUM PRESSURE RATING OF 100 PSI [690kPa].
⑩ 1/2" [13mm] SCHEDULE 40 PVC STREET ELL.

## 1 POP-UP SPRAY SPRINKLER RISER
SCALE: NONE

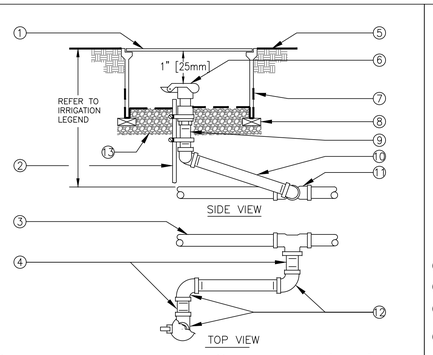



NOTE:
SUGGESTED QUANTITY OF BUBBLERS PER TREES AND SHRUBS SIZE:
- SHRUBS = 1 BUBBLER
- 15 GAL OR 24" BOX = 2 BUBBLERS
- 36 GAL OR 48" BOX = 4 BUBBLERS
- 60 GAL OR 72" BOX = 6 BUBBLERS

TREE BUBBLER PLACEMENT EXAMPLES

① BUBBLER (TO BE INSTALLED ON TOP OF ROOTBALL).
② 1/2" [13mm] SCH. 40 MALE ADAPTER.
③ 6" [150mm] STEEL STAPLE.
④ FINISH GRADE.
⑤ TREE OR SHRUB ROOTBALL.
⑥ 1/2" [13mm] IPS FLEXIBLE PVC.
⑦ PVC TEE (SST), ELBOW (ST) OR FEMALE ADAPTER.
⑧ PVC LATERAL LINE.
⑨ TREE STAKES.
⑩ TREE OR SHRUB.
⑪ EDGE OF ROOTBALL (TYPICAL).

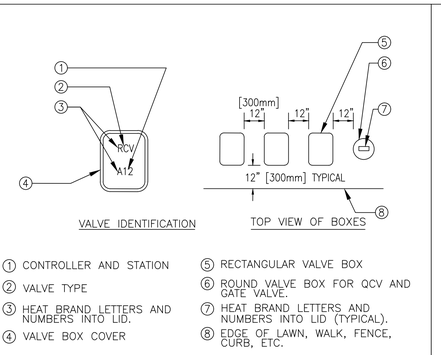
## 2 TREE AND SHRUB BUBBLER
SCALE: NONE




① 10" ROUND PLASTIC VALVE BOX WITH BOLT DOWN LID.
② 1 1/4" x 1 1/4" x 3/16" [30mm x 30mm x 5mm] ANGLE IRON 30" [760mm] LONG W/2 STAINLESS STEEL STRAPS (ONE AROUND QCV).
③ PVC MAIN LINE.
④ 3" [75mm] LONG SCHEDULE 80 PVC THREADED NIPPLE.
⑤ FINISH GRADE.
⑥ QUICK COUPLING VALVE.
⑦ 19 GAUGE 1/2" [13mm] SQUARE WIRE MESH.
⑧ BRICK – 2 TOTAL.
⑨ SCHEDULE 80 PVC THREADED NIPPLE.
⑩ 10" [250mm] LONG SCHEDULE 80 PVC THREADED NIPPLE.
⑪ UPC APPROVED SCHEDULE 40 PVC TEE OR ELBOW.
⑫ SCHEDULE 80 PVC THREADED 90° ELL.
⑬ PEA GRAVEL OR 3/4" DRAIN ROCK– 4" [100mm] DEEP BELOW VALVE (NO SOIL IN VALVE BOX).

NOTE:
NIPPLES AND FITTINGS TO BE SAME SIZE AS VALVE IPT INLET THREAD SIZE.

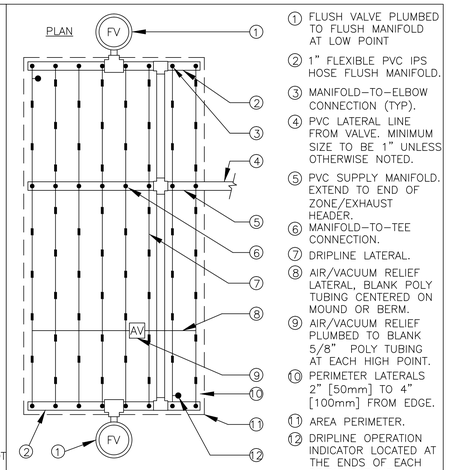
## 3 QUICK COUPLING VALVE
SCALE: NONE




① CONTROLLER AND STATION
② VALVE TYPE
③ HEAT BRAND LETTERS AND NUMBERS INTO LID.
④ VALVE BOX COVER
⑤ RECTANGULAR VALVE BOX
⑥ ROUND VALVE BOX FOR QCV AND GATE VALVE.
⑦ HEAT BRAND LETTERS AND NUMBERS INTO LID (TYPICAL).
⑧ EDGE OF LAWN, WALK, FENCE, CURB, ETC.

INSTRUCTIONS:
1. CENTER VALVE BOX OVER REMOTE CONTROL VALVE TO FACILITATE SERVICING VALVE.
2. SET BOXES 1" [25mm] ABOVE FINISH GRADE OR MULCH COVER IN GROUND COVER/SHRUB AREA AND FLUSH WITH FINISH GRADE IN TURF AREA.
3. SET RCV AND VALVE BOX ASSEMBLY IN GROUND COVER/SHRUB AREA WHERE POSSIBLE. INSTALL IN LAWN ONLY IF GROUND COVER DOES NOT EXIST ADJACENT TO LAWN.
4. SET BOXES PARALLEL TO EACH OTHER AND PERPENDICULAR TO EDGE OF LAWN, WALK, FENCE, CURB, ETC.
5. AVOID HEAVILY COMPACTING SOIL AROUND VALVE BOXES TO PREVENT COLLAPSE AND DEFORMATION OF VALVE BOX SIDES.
6. INSTALL EXTENSION BY VALVE BOX MANUFACTURER AS REQUIRED TO COMPLETELY ENCLOSE ASSEMBLY FOR EASY ACCESS.

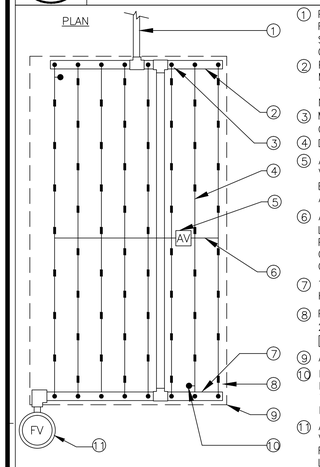
## 4 VALVE BOX INSTALLATION
SCALE: NONE




① FLUSH VALVE PLUMBED TO FLUSH MANIFOLD AT LOW POINT
② 1" FLEXIBLE PVC IPS HOSE FLUSH MANIFOLD.
③ MANIFOLD–TO–ELBOW CONNECTION (TYP).
④ PVC LATERAL LINE FROM VALVE. MINIMUM SIZE TO BE 1" UNLESS OTHERWISE NOTED.
⑤ PVC SUPPLY MANIFOLD. EXTEND TO END OF ZONE/EXHAUST HEADER.
⑥ MANIFOLD–TO–TEE CONNECTION.
⑦ DRIPLINE LATERAL.
⑧ AIR/VACUUM RELIEF LATERAL, BLANK POLY TUBING CENTERED ON MOUND OR BERM.
⑨ AIR/VACUUM RELIEF PLUMBED TO BLANK 5/8" POLY TUBING AT EACH HIGH POINT.
⑩ PERIMETER LATERALS 2" [50mm] TO 4" [100mm] FROM EDGE.
⑪ AREA PERIMETER.
⑫ DRIPLINE OPERATION INDICATOR LOCATED AT THE ENDS OF EACH DRIPLINE ZONE.

NOTE:
1. THE TOTAL LENGTH OF ALL INTERCONNECTED DRIP LINE OFF A SINGLE PVC SUPPLY LINE CONNECTION OR A SINGLE RUN OF DRIPLINE SHALL NOT EXCEED 300 FT.
2. INSTALL DRIPLINE 2–4" BELOW GRADE AND STAKE DOWN EVERY 4' OR AS REQUIRED.

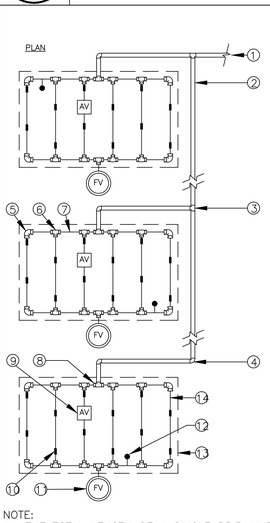
## 5 TORO DL 2000 CENTER FEED LAYOUT
SCALE: NONE




① PVC LATERAL LINE FROM VALVE. MINIMUM SIZE TO BE 1" UNLESS OTHERWISE NOTED.
② PVC FLUSH MANIFOLD. MINIMUM SIZE TO BE 1" UNLESS OTHERWISE NOTED.
③ MANIFOLD–TO–ELBOW CONNECTION (TYP).
④ DRIPLINE LATERAL.
⑤ AIR/VACUUM RELIEF VALVE PLUMBED TO BLANK 5/8" TUBING AT EACH HIGH POINT.
⑥ AIR/VACUUM RELIEF LATERAL, BLANK 5/8" POLY TUBING CENTERED ON MOUND OR BERM.
⑦ 1" FLEXIBLE PVC IPS HOSE FLUSH MANIFOLD.
⑧ PERIMETER LATERALS 2" [50mm] TO 4" [100mm] FROM EDGE.
⑨ AREA PERIMETER.
⑩ DRIP OPERATION INDICATOR LOCATED AT THE ENDS OF EACH DRIPLINE ZONES.
⑪ AUTOMATIC FLUSH VALVE PLUMBED TO FLUSH MANIFOLD AT LOW POINT.

NOTE:
1. THE TOTAL LENGTH OF ALL INTERCONNECTED DRIP LINE OFF A SINGLE PVC SUPPLY LINE CONNECTION OR A SINGLE RUN OF DRIPLINE SHALL NOT EXCEED 300 FT.
2. INSTALL DRIPLINE 2–4" BELOW GRADE AND STAKE DOWN EVERY 4' OR AS REQUIRED.

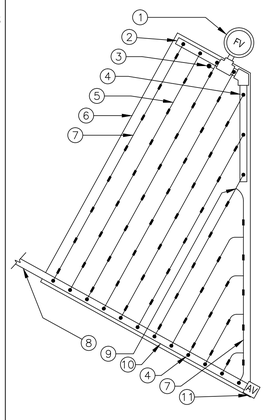
## 6 TORO DL 2000 END FEED LAYOUT
SCALE: NONE




① PVC LATERAL LINE FROM VALVE. MINIMUM SIZE TO BE 1" UNLESS OTHERWISE NOTED.
② PVC FLUSH MANIFOLD. MINIMUM SIZE TO BE 1" UNLESS OTHERWISE NOTED.
③ PVC TEE (SxSxS).
④ PVC ELL (SxS).
⑤ TORO TRI–LOC ELL (TL–E).
⑥ TORO TRI–LOC TEE (TL–T).
⑦ BLANK 5/8" [16mm] POLY TUBING AT SUPPLY AND FLUSH END OF EACH ISLAND.
⑧ REFER TO DRIPLINE TO PVC CONNECTION DETAIL.
⑨ AIR/VACUUM RELIEF VALVE PLUMBED TO TUBING AT HIGH POINT.
⑩ DRIPLINE LATERAL.
⑪ MANUAL FLUSH VALVE PLUMBED TO TUBING AT LOW POINT.
⑫ DRIPLINE OPERATION INDICATOR LOCATED AT THE ENDS OF EACH DRIPLINE ZONE.
⑬ ISLAND PERIMETER.
⑭ PERIMETER LATERALS 2" [50mm] TO 4" [100mm] FROM EDGE.

NOTE:
1. THE TOTAL LENGTH OF A SINGLE DRIP LINE RUN SHALL NOT EXCEED 300 FT.
2. INSTALL DRIPLINE 2–4" BELOW GRADE AND STAKE DOWN EVERY 4' OR AS REQUIRED.

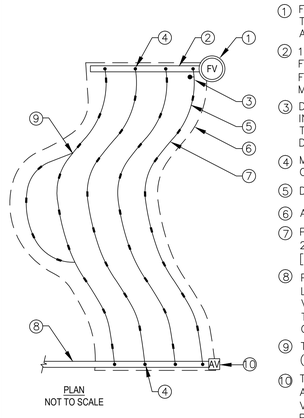
## 7 TORO DL 2000 ISLAND LAYOUT
SCALE: NONE




① FLUSH VALVE PLUMBED TO FLUSH MANIFOLD AT LOW POINT
② 1" SCH 40 PVC OR FLEXIBLE PVC IPS HOSE FLUSH MANIFOLD.
③ DRIPLINE OPERATION INDICATOR LOCATED AT THE ENDS OF EACH DRIPLINE ZONE.
④ MANIFOLD–TO–ELBOW CONNECTION.
⑤ DRIPLINE LATERAL.
⑥ AREA PERIMETER.
⑦ PERIMETER LATERALS 2" [50mm] TO 4" [100mm] FROM EDGE.
⑧ PVC LATERAL LINE FROM VALVE. MINIMUM SIZE TO BE 1" UNLESS OTHERWISE NOTED.
⑨ TORO TRI–LOC TEE (TL–T)
⑩ PVC SUPPLY MANIFOLD.
⑪ TORO DL2000 AIR/VACUUM RELIEF VALVE (YD–500–34) PLUMBED TO SUPPLY MANIFOLD AT HIGH POINT.

NOTE:
1. THE TOTAL LENGTH OF ALL INTERCONNECTED DRIP LINE OFF A SINGLE PVC SUPPLY LINE CONNECTION OR A SINGLE RUN OF DRIPLINE SHALL NOT EXCEED 300 FT.
2. INSTALL DRIPLINE 2–4" BELOW GRADE AND STAKE DOWN EVERY 4' OR AS REQUIRED.

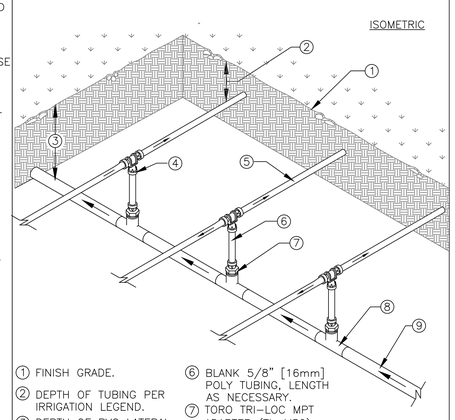
## 8 TORO DL2000 TRIANGULAR LAYOUT
SCALE: NONE




① FLUSH VALVE PLUMBED TO FLUSH MANIFOLD AT LOW POINT
② 1" SCH 40 PVC OR FLEXIBLE PVC IPS HOSE FLUSH/EXHAUST MANIFOLD.
③ DRIPLINE OPERATION INDICATOR LOCATED AT THE ENDS OF EACH DRIPLINE ZONE.
④ MANIFOLD–TO–ELBOW CONNECTION.
⑤ DRIPLINE LATERAL.
⑥ AREA PERIMETER.
⑦ PERIMETER LATERALS 2" [50mm] TO 4" [100mm] FROM EDGE.
⑧ PVC SUPPLY LINE/HEADER FROM VALVE. MINIMUM SIZE TO BE 1" UNLESS OTHERWISE NOTED.
⑨ TORO TRI–LOC TEE (TL–T)
⑩ TORO DL2000 AIR/VACUUM RELIEF VALVE (YD–500–34) PLUMBED TO SUPPLY MANIFOLD AT HIGH POINT.

NOTE:
1. THE TOTAL LENGTH OF ALL INTERCONNECTED DRIP LINE OFF A SINGLE PVC SUPPLY LINE CONNECTION OR A SINGLE RUN OF DRIPLINE SHALL NOT EXCEED 300 FT.
2. INSTALL DRIPLINE 2–4" BELOW GRADE AND STAKE DOWN EVERY 4' OR AS REQUIRED.

## 9 TORO DL2000 ODD CURVE LAYOUT
SCALE: NONE




① FINISH GRADE.
② DEPTH OF TUBING PER IRRIGATION LEGEND.
③ DEPTH OF PVC LATERAL LINE PER IRRIGATION LEGEND.
④ TORO TRI–LOC TEE (TL–T)
⑤ DRIPLINE TUBING.
⑥ BLANK 5/8" [16mm] POLY TUBING, LENGTH AS NECESSARY.
⑦ TORO TRI–LOC MPT ADAPTER (TL–M50)
⑧ PVC TEE (SxSxT) WITH 1/2" [13mm] FPT OUTLET.
⑨ PVC LATERAL LINE FROM REMOTE CONTROL VALVE.

NOTE:
THE TOTAL LENGTH OF A SINGLE DRIP LINE RUN SHALL NOT EXCEED 300 FT.

## 10 TORO DL 2000 CENTER FEED MANIFOLD
SCALE: NONE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**OWNER:** SRCS VENETIA VALLEY K-8

**PROJECT NAME:** CLASSROOM REPLACEMENT AND NEW MPR BUILDING

**CLIENT ADDRESS:** 177 N San Pedro Rd, San Rafael, CA 94903

**DESIGN DEVELOPMENT SET**

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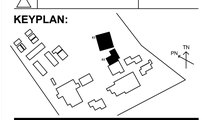

**DATE ISSUED:** 08/18/2017
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**SCALE:** As Indicated

**SHEET NUMBER:** L-04.4
**SHEET TITLE:** IRRIGATION DETAILS


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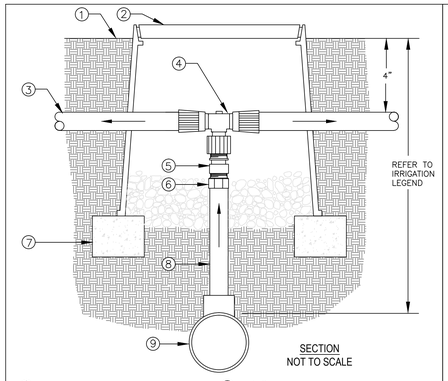
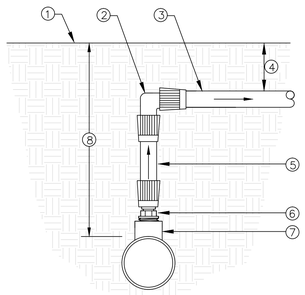



SECTION
NOT TO SCALE

1. FINISH GRADE
2. CARSON 708 OR EQUAL. COLOR: BLACK. USE PURPLE FOR RECYCLED WATER SYSTEMS.
3. DRIPLINE TUBING
4. TORO TRI-LOC TEE X 1/2" FPT ADAPTER
5. TORO 1/2" CHECK VALVE (PCV-500)
6. 1/2" SCH 40 MALE ADAPTER.
7. BRICK (1 OF 2)
8. 1/2" SCH 40 PVC (LENGTH AS REQUIRED)
9. PVC LATERAL LINE SUPPLY. MINIMUM SIZE TO BE 1" UNLESS SIZED DIFFERENTLY ON DRAWINGS. USE SCH 40 PVC 1"x1"x1/2" TEE OR 90° ELBOW.

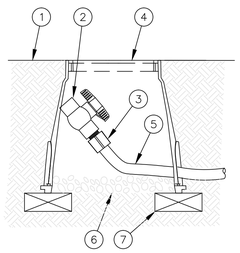
## 7 DRIPLINE TO PVC CONNECTION
SCALE: NONE



SECTION/ELEVATION
NOT TO SCALE

1. FINISH GRADE
2. TORO TRI-LOC ELBOW (TL-E)
3. DRIPLINE TUBING
4. DEPTH OF TUBING PER IRRIGATION LEGEND.
5. TORO BLUE STRIPE POLY TUBING (EHD1645)
6. TORO TRI-LOC MPT ADAPTER (TL-M50)
7. SCH 40 PVC TEE (SxSxT) WITH 1/2" FPT OUTLET.
8. DEPTH OF PVC LATERAL LINE PER IRRIGATION LEGEND

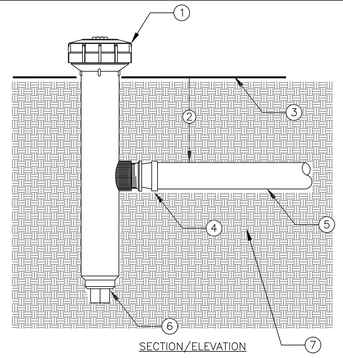
## 8 DRIPLINE MANIFOLD TO ELBOW CONNECTION
SCALE: NONE



NOTE:
ALLOW A MINIMUM OF PVC HOSE IN VALVE BOX IN ORDER TO DIRECT FLUSHED WATER OUTSIDE VALVE BOX.

1. FINISH GRADE
2. 1/2" SCH 40 THREADED BALL VALVE.
3. 1/2" SCH 40 MALE ADAPTER.
4. 6" ROUND PLASTIC VALVE BOX.
5. 1" IPS PVC HOSE FROM EXHAUST HEADER.
6. PEA GRAVEL SUMP (6" DEEP).
7. BRICK (1 OF 2)

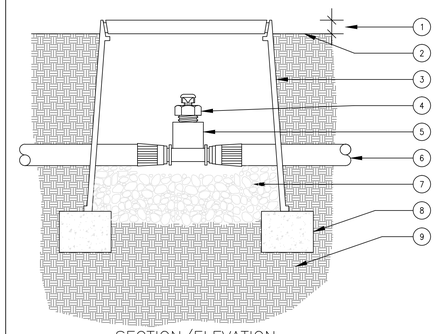
## 9 DRIPLINE-FLUSH POINT
SCALE: NONE



SECTION/ELEVATION

1. TORO 6" POP UP SPRINKLER WITH SIDE INLET (MODEL 570Z-6P-SI-PRX WITH 5' PRECISION NOZZLE (MODEL O-T-5-QP) TURNED COMPLETELY OFF WITH ADJUSTMENT SCREW. SPRINKLER SHALL OPERATE AS THE DRIPLINE INDICATOR. USE A MINIMUM OF ONE PER ZONE AND LOCATED AT END OF ZONE.
2. DEPTH OF DRIPLINE. REFER TO IRRIGATION LEGEND.
3. FINISH GRADE.
4. TORO TRI-LOC X 1/2" MPT ADAPTER (TL-M50)
5. DRIPLINE.
6. KEEP PLUG IN SPRINKLER. ONLY USE SIDE INLET.
7. SOIL BACKFILL.

## 10 DRIPLINE OPERATION INDICATOR
SCALE: NONE

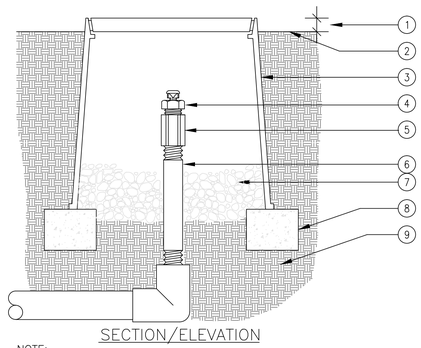


SECTION/ELEVATION

NOTE:
USE ONE AIR/RELIEF VALVE FOR EVERY 7 GPM PER ZONE.
LOCATE AT HIGH POINTS.

1. 1" ABOVE FINISH GRADE.
2. FINISH GRADE.
3. 6" ROUND PLASTIC VALVE BOX. HEAT BRAND "AR" ON LID IN 1" HIGH CHARACTERS.
4. TORO DL2000 AIR/VACUUM RELIEF VALVE (YD-500-34).
5. TORO TRI-LOC TEE X 1/2" FPT ADAPTER (TL-T-F50)
6. TORO DL2000 TUBING (RGP-XX-XXX) OR TORO BLUE STRIPE POLY TUBING (EHD1645-XXX) AIR-RELIEF LATERAL.
7. PEA GRAVEL (4" DEEP).
8. BRICK SUPPORTS (2 COMMON BRICKS REQUIRED).
9. NATIVE SOIL PER SPECIFICATIONS.

## 11 AIR VACUUM RELIEF VALVE IN DRIPLINE
SCALE: NONE



SECTION/ELEVATION

NOTE:
USE ONE AIR/RELIEF VALVE FOR EVERY 7 GPM PER ZONE.
LOCATE AT HIGH POINTS.

1. 1" ABOVE FINISH GRADE.
2. FINISH GRADE.
3. 6" ROUND PLASTIC VALVE BOX. HEAT BRAND "AR" ON LID IN 1" HIGH CHARACTERS.
4. TORO DL2000 AIR/VACUUM RELIEF VALVE (YD-500-34).
5. 1/2" SCH 40 PVC COUPLING (TxT)
6. 1/2" SCH 80 PVC NIPPLE (LENGTH AS REQUIRED).
7. PEA GRAVEL (4" DEEP).
8. BRICK SUPPORTS (2 COMMON BRICKS REQUIRED).
9. NATIVE SOIL PER SPECIFICATIONS.

## 12 AIR VACUUM RELIEF VALVE ON PVC ELL
SCALE: NONE

**OWNER:** SRCS VENETIA VALLEY K-8

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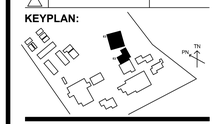


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**SHEET NUMBER:** L-04.

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## SITEWORK GENERAL NOTES

1. THE GENERAL CONTRACTOR SHALL BE RESPONSIBLE FOR COORDINATING ALL WORK BY THE SUBCONTRACTORS.
2. CONTRACTOR SHALL VERIFY ALL CONDITIONS AT JOB SITE AND NOTIFY LANDSCAPE ARCHITECT AND GENERAL CONTRACTOR OF DIMENSIONAL ERRORS, OMISSIONS OR DISCREPANCIES BEFORE BEGINNING ANY WORK.
3. CONTRACTOR TO OBTAIN ALL NECESSARY PERMITS PRIOR TO CONSTRUCTION. ALL CONTRACTORS MUST COMPLY WITH PERMIT REQUIREMENTS, LOCAL, STATE AND FEDERAL JURISDICTIONS AND GOVERNING BODIES/AGENCIES RULES AND REGULATIONS AND LAND USE APPROVAL CONDITIONS AT ALL TIMES.
4. WORK PERFORMED WITHOUT APPROVAL OF LOCAL, STATE AND FEDERAL JURISDICTIONS AND GOVERNING BODIES/AGENCIES AND/OR NOT IN COMPLIANCE WITH SPECIFICATIONS AND/OR DRAWINGS IS SUBJECT TO REMOVAL AT CONTRACTOR'S EXPENSE.
5. ALL WORK SHALL CONFORM TO THE APPROPRIATE AGENCIES. CONTRACTOR SHALL VERIFY LOCATION OF ALL EXISTING UTILITIES, LINES AND STRUCTURES PRIOR TO EXCAVATION OR TRENCHING. DAMAGE SHALL BE REPAIRED BY THE CONTRACTOR AT NO COST TO THE OWNER. THE LANDSCAPE ARCHITECT ASSUMES NO RESPONSIBILITY FOR UTILITIES OR STRUCTURES NOT SHOWN ON THE DRAWINGS. CONTRACTOR IS TO VERIFY THE EXACT LOCATION OF UTILITIES PRIOR TO CONSTRUCTION AND NOTIFY THE LANDSCAPE ARCHITECT OF ANY DISCREPANCIES. CONTRACTOR SHALL USE EXTREME CAUTION WHEN WORKING OVER OR NEAR EXISTING GAS AND ELECTRICAL LINES.
6. THE CONTRACTOR SHALL BE RESPONSIBLE FOR RESETTING ALL LAND MONUMENTS DISRUPTED BY CONSTRUCTION ACTIVITIES OR NEGLIGENCE ON THE PART OF THE CONTRACTOR. RESETS SHALL BE PERFORMED UNDER THE SUPERVISION OF A REGISTERED LAND SURVEYOR AND MONUMENT RECORDS MUST BE FILED AS REQUIRED BY STATUTE FOR ALL MONUMENTS.
7. ALL CONSTRUCTION AND MATERIALS NOT SPECIFICALLY ADDRESSED IN THE CONTRACT DOCUMENTS OR SPECIFICATIONS SHALL BE IN ACCORDANCE WITH LOCAL, STATE AND FEDERAL JURISDICTIONS AND GOVERNING BODIES/AGENCIES STANDARDS.
8. THE CONTRACTOR SHALL TAKE ALL PRECAUTIONARY MEASURES NECESSARY TO PROTECT EXISTING IMPROVEMENTS FROM DAMAGE AND ALL SUCH IMPROVEMENTS AND STRUCTURES DAMAGED BY THE CONTRACTOR'S OPERATIONS SHALL BE REPAIRED OR RECONSTRUCTED SATISFACTORY TO THE LANDSCAPE ARCHITECT AT THE CONTRACTOR'S EXPENSE.
9. ALL BARRICADING AND TEMPORARY TRAFFIC CONTROL DEVICES OR METHODS USED DURING CONSTRUCTION SHALL BE IN ACCORDANCE WITH LOCAL, STATE AND FEDERAL JURISDICTIONS AND GOVERNING BODIES/AGENCIES STANDARDS. PROVIDE ADEQUATE TIME FOR REVIEW AND APPROVAL BY THE ABOVE JURISDICTIONS PRIOR TO COMMENCEMENT.
10. THE LANDSCAPE ARCHITECT IS NOT RESPONSIBLE FOR THE CONSTRUCTION MEANS, METHODS, TECHNIQUES, SEQUENCES UTILIZED OR FOR SAFETY PRECAUTIONS OR PROBLEMS IN CONNECTION WITH THE WORK. THE LANDSCAPE ARCHITECT WILL NOT BE RESPONSIBLE FOR THE CONTRACTOR'S FAILURE TO CARRY OUT THE WORK IN ACCORDANCE WITH THE CONTRACT DOCUMENTS. CONTRACT DOCUMENTS INCLUDE THE CONSTRUCTION DOCUMENT DRAWING SET/TECHNICAL SPECIFICATIONS MANUAL/LASIS.
11. CONTRACTOR TO VERIFY ALL QUANTITIES. IN CASE OF ANY DISCREPANCIES, GRAPHICALLY SHOWN MATERIAL QUANTITIES SHALL TAKE PRECEDENCE.
12. A SYSTEM OF DIAGRAMMATIC SYMBOLS, HATCHES AND NOTATIONS IS USED IN THESE DRAWINGS. REVIEW NOTATIONS CAREFULLY. NOTIFY LANDSCAPE ARCHITECT AND REQUEST CLARIFICATION OF ANY UNCLEAR NOTATION OR DISCREPANCY PRIOR TO COMMENCING WORK.
13. PROVIDE SLEEVES AS REQUIRED FOR DRAINAGE, IRRIGATION AND ELECTRICAL LINES. IRRIGATION AND ELECTRICAL SLEEVES AND SUBSURFACE DRAINAGE SYSTEMS SHALL BE CONSTRUCTED PRIOR TO PAVING AND LANDSCAPE WORK. UTILITY SLEEVES ARE REQUIRED IN ALL PLANT BEDS ISOLATED BY PAVEMENT OR ANY OTHER STRUCTURES.
14. SPECIAL CONSIDERATION IS GIVEN TO THE DESIGN AND INTENDED RELATIONSHIP BETWEEN ARCHITECTURE, PLANTING AREAS AND PAVING SYSTEMS. PAVEMENT JOINTING, PAVERS, STONE, FINISHES AND GRADES HAVE BEEN STRICTLY COORDINATED IN THE CONTRACT DOCUMENTS. CONSTRUCTION OF THESE SYSTEMS SHALL BE STRICTLY COORDINATED.
15. VEHICLES, EQUIPMENT, AND/OR MATERIALS SHALL NOT BE PARKED OR STORED IN AREAS OF EXISTING VEGETATION, INCLUDING WITHIN THE DRIPLINE OF EXISTING TREES TO REMAIN.
16. LANDSCAPE MATERIALS TO BE STORED UNDER SECURED TARPS OR SHEETING TO PROTECT AGAINST WIND, RAIN, AND SNOW DAMAGE.
17. CONSTRUCTION WASTE-INCLUDING BUT NOT LIMITED TO: PLANT MATERIAL, BUILDING MATERIALS, DEMOLISHED MATERIALS, PACKAGING, LEFTOVER PAINT AND CONCRETE SLURRY-SHOULD BE PROPERLY REUSED, RECYCLED, DISPOSED OF LEGALLY OFF-SITE OR IN DESIGNATED WASH-OUT AREAS DETERMINED BY THE GENERAL CONTRACTOR.
18. RECYCLING AND TRASH BINS TO BE PROVIDED ON SITE. SEPARATE BINS FOR CARDBOARD, CO-MINGLED, AND OTHER RECYCLABLE/REUSABLE MATERIALS IDENTIFIED BY THE LOCAL JURISDICTION SHALL BE MAINTAINED. ALL BINS TO BE WILDLIFE-PROOF.
19. ON-SITE FUEL STORAGE FOR CONSTRUCTION EQUIPMENT IS DISCOURAGED. CONSTRUCTION EQUIPMENT USED ON SITE TO BE CHECKED REGULARLY TO ASSURE CONTAMINATION CONCERNS FROM OILS AND GREASES ARE ELIMINATED. NO TOXIC MATERIALS SHALL BE STORED ON-SITE.
20. GENERAL CONTRACTOR TO KEEP ALL ITEMS IMPLEMENTED BY LANDSCAPE ARCHITECT IN PROPER WORKING ORDER THROUGHOUT THE DURATION OF THE PROJECT.
21. THE CONSTRUCTION SITE TO BE INSPECTED ON A MONTHLY BASIS BY LANDSCAPE ARCHITECT AND/OR CIVIL ENGINEER TO ASSURE THAT THE SILT FENCE AND MUD TRACKING PAD ARE PROPERLY IN PLACE AND FUNCTIONING AS DESIGNED.
22. GREEN BUILDING PRACTICES SHALL BE EMPLOYED TO THE EXTENT FEASIBLE. SUCH PRACTICES INCLUDE: CARPOOLING/VANPOOLING TO JOB SITE, MINIMIZING MATERIALS PACKING BEFORE ARRIVAL TO JOB SITE, REDUCING MATERIAL/RESOURCE INEFFICIENCIES BY COORDINATING WORK.
23. IF SITE WORK IS DELAYED DUE TO ANY CIRCUMSTANCE; THE CONTRACTOR SHALL PROTECT PREPARED PLANT BEDS FROM EROSION.
24. EXISTING TREES TO BE PRESERVED SHALL BEAR SAME RELATIONSHIP TO FINISHED GRADE AS THEY BEAR TO PRE-CONSTRUCTION GRADE.
25. EXISTING TREES TO BE PRESERVED SHALL BE PROTECTED WITH STURDY, WEATHERPROOF FENCING AT A MINIMUM FOUR (4) FEET HEIGHT INSTALLED NO CLOSER TO THE TREE TRUNK THAN ITS DRIPLINE. THIS FENCE SHALL BE MAINTAINED IN WORKING ORDER DURING ALL PHASES OF CONSTRUCTION. MAINTAIN TREE PROTECTION ZONES FREE OF WEEDS AND TRASH.
26. NO WORK SHALL BE CONDUCTED WITHIN THE DRIPLINE, UNLESS REVIEWED AND APPROVED BY THE LANDSCAPE ARCHITECT. ALL WORK APPROVED WITHIN THE DRIPLINE SHALL BE COMPLETED BY HAND. PROTECT ROOT SYSTEMS FROM PONDING, ERODING, OR EXCESSIVE WETTING.
27. THE PROJECT LIMIT OF CONSTRUCTION AND ALL EXISTING VEGETATION TO REMAIN IS TO BE CLEARLY DEFINED BY STURDY, WEATHERPROOF FENCING AT A MINIMUM OF 4' HIGH.
28. WATERPROOFING OF SUBGRADE AND OTHER ARCHITECTURAL SPACES BELOW AND/OR ADJACENT TO IMPROVEMENTS DESIGNED BY THE LANDSCAPE ARCHITECT IS TO BE ADEQUATELY DESIGNED AND DETAILED BY OTHERS TO PERMANENTLY REPEL ALL WATER SOURCES INCLUDING, BUT NOT LIMITED TO: PRECIPITATION, SNOW MELT, STORM WATER RUNOFF, GROUND WATER, IRRIGATION, ROOF RUNOFF, GROUND WATER, AND PLUMBING LEAKS.
29. STRUCTURAL DESIGN TO SUPPORT IMPROVEMENTS DESIGNED BY THE LANDSCAPE ARCHITECT AND LOCATED ABOVE, BELOW, AND/OR ADJACENT TO SUBGRADE AND OTHER ARCHITECTURAL SPACES IS THE RESPONSIBILITY OF THE STRUCTURAL ENGINEER. THE STRUCTURAL DESIGN SHOULD BE ADEQUATELY DESIGNED TO SUPPORT ALL POSSIBLE LOADS INCLUDING, BUT NOT LIMITED TO: BACKFILL, COMPACTION, PLANTINGS, HARDSCAPES, RETAINING AND FREESTANDING SITE WALLS, AND CONSTRUCTION MATERIALS/EQUIPMENT/ACTIVITY.

## LAYOUT & MATERIALS NOTES

1. LAYOUT AND VERIFY DIMENSIONS PRIOR TO CONSTRUCTION. NOTIFY LANDSCAPE ARCHITECT OF ANY DISCREPANCIES. LANDSCAPE ARCHITECT TO REVIEW AND APPROVE ALL LAYOUTS CONTAINED IN THE CONSTRUCTION DOCUMENTS PRIOR TO CONSTRUCTION.
2. WRITTEN DIMENSIONS SHALL TAKE PRECEDENCE OVER SCALED DIMENSIONS. DO NOT SCALE DIMENSIONS FROM REDUCED DRAWINGS.
3. DIMENSIONS REFERRED TO AS "EQUAL" INDICATE SPACING WHICH IS EQUIDISTANT MEASURED TO THE CENTERLINES.
4. MEASUREMENTS ARE TO THE FINISHED FACE OF BUILDINGS, WALLS, OR OTHER FIXED SITE IMPROVEMENTS. DIMENSIONS TO CENTERLINES ARE IDENTIFIED AS SUCH.
5. INSTALL INTERSECTING ELEMENTS AT 90-DEGREE ANGLES, UNLESS OTHERWISE INDICATED. MAINTAIN HORIZONTAL ALIGNMENT OF ADJACENT ELEMENTS AS INDICATED IN CONTRACT DOCUMENTS.
6. THE CONTRACTOR SHALL PROVIDE A FULL-SCALE MOCKUP AND RECEIVE APPROVAL FROM THE LANDSCAPE ARCHITECT FOR ALL SYSTEMS BEFORE BEGINNING CONSTRUCTION OF PAVEMENT.
7. EXPANSION JOINTS SHALL BE PROVIDED WHERE FLATWORK MEETS VERTICAL STRUCTURES, SUCH AS WALLS, CURBS, STEPS, AND OTHER HARDSCAPE ELEMENTS. EXPANSION JOINTS SHALL ALSO BE PROVIDED AT MATERIAL CHANGES. EXPANSION JOINT MATERIALS/METHODS SHALL BE SUBMITTED TO THE LANDSCAPE ARCHITECT FOR REVIEW AND APPROVAL PRIOR TO INSTALLATION.
8. CONTROL JOINTS SHOULD BE SPACED NO GREATER THAN TEN (10) LINEAR FEET MAXIMUM, UNLESS OTHERWISE SPECIFIED. EXPANSION JOINTS SHOULD BE SPACED NO GREATER THAN FORTY (40) LINEAR FEET MAXIMUM, UNLESS OTHERWISE SPECIFIED. CONTRACTOR SHALL ADVISE ON OTHER JOINTS AS NEEDED TO MINIMIZE CRACKING. THIS INFORMATION SHALL BE SUBMITTED TO THE LANDSCAPE ARCHITECT FOR REVIEW AND APPROVAL PRIOR TO INSTALLATION.
9. CONTROL JOINTS SHALL BE PROVIDED AS SPECIFIED IN THE CONTRACT DOCUMENTS. CONTROL JOINT MATERIALS, METHODS AND RECOMMENDATIONS ON ADDITIONAL CONTROL JOINTS TO MINIMIZE CRACKING SHALL BE SUBMITTED TO THE LANDSCAPE ARCHITECT FOR REVIEW AND APPROVAL.
10. ALL STEPS SHALL HAVE FOURTEEN (14) INCH TREADS AND SIX (6) INCH RISERS, UNLESS OTHERWISE SPECIFIED.
11. HOLD TOP OF WALLS AND FENCES LEVEL, UNLESS OTHERWISE SPECIFIED.
12. CONTRACTOR SHALL NOT INSTALL WORK LOCATED ON TOP OF ARCHITECTURAL STRUCTURES WITHOUT FIRST REVIEWING ARCHITECTURAL DRAWINGS.
13. SAMPLES OF SPECIFIED MATERIALS SHALL BE SUBMITTED TO THE LANDSCAPE ARCHITECT FOR REVIEW AND APPROVAL PRIOR TO ORDERING FOR JOB.

## GRADING NOTES

1. VERIFY EXISTING ELEVATIONS PRIOR TO STARTING WORK. NOTIFY LANDSCAPE ARCHITECT OF ANY DISCREPANCIES. EXISTING AND PROPOSED GRADES ARE BASED ON SURVEY DOCUMENTS PREPARED BY SURVEYOR.
2. CONTRACTOR SHALL VERIFY THE PLACEMENT OF FLATWORK PENETRATIONS TO ENSURE COORDINATION OF SURFACE FIXTURES, SUCH AS DRAINS AND LIGHTS. NOTIFY GENERAL CONTRACTOR AND LANDSCAPE ARCHITECT OF DISCREPANCIES PRIOR TO CONSTRUCTION OF FLATWORK.
3. THE CONTRACTOR SHALL REFER TO THE ARCHITECTURAL DRAWINGS TO VERIFY FINISHED FLOOR ELEVATIONS. THE GENERAL CONTRACTOR AND LANDSCAPE ARCHITECT SHALL BE NOTIFIED IF THERE ARE ANY DISCREPANCIES PRIOR TO CONSTRUCTION.
4. THE CONTRACTOR SHALL REFER TO THE MECHANICAL DRAWINGS TO VERIFY DRAIN LOCATIONS OVER STRUCTURE. THE GENERAL CONTRACTOR AND LANDSCAPE ARCHITECT SHALL BE NOTIFIED OF ANY DISCREPANCIES PRIOR TO CONSTRUCTION.
5. THE CONTRACTOR SHALL REFER TO THE CIVIL ENGINEERING DRAWINGS TO VERIFY UTILITY AND OTHER DRAIN LOCATIONS. THE GENERAL CONTRACTOR AND LANDSCAPE ARCHITECT SHALL BE NOTIFIED OF ANY DISCREPANCIES PRIOR TO CONSTRUCTION.
6. PROPOSED ELEVATIONS INDICATED ON DRAWINGS ARE FINISHED GRADE ELEVATIONS. THE CONTRACTOR SHALL DIRECT ROUGH GRADE WORK TO ALLOW FOR SUFFICIENT TOPSOIL AND OTHER FINISHED CONDITIONS AS DESCRIBED IN THE CONTRACT DOCUMENTS.
7. ALL FINISHED GRADES SHALL MEET AND BLEND SMOOTHLY WITH EXISTING GRADES AT THE PROJECT LIMIT.
8. ALL FINISHED GRADES SHALL BE WITHOUT LOW SPOTS OR POCKETS. CONTRACTOR SHALL SET FLOW LINES ACCURATELY AND PROVIDE A MINIMUM OF TWO (2) PERCENT OR MAXIMUM OF FIFTY (50) PERCENT, UNLESS OTHERWISE NOTED.
9. ALL FINISHED GRADES SHALL PRESENT SMOOTH TRANSITIONS BETWEEN TOES AND TOPS OF SLOPES.
10. THE MAXIMUM SLOPE OF SOD TO BE 3:1 IN AREAS DESIGNATED AS " LAWN," UNLESS OTHERWISE NOTED.
11. ALL MANHOLES, VALVE BOXES, UTILITY BOXES AND PEDESTALS, AND OTHER APPURTENANCES SHALL BE ADJUSTED TO FINISH GRADE IN ACCORDANCE WITH THE LOCAL, STATE AND FEDERAL JURISDICTIONS AND GOVERNING BODIES/AGENCIES OR UTILITY RULES AND REGULATIONS, UNLESS OTHERWISE NOTED.
12. SOIL COMPACTION BENEATH PAVEMENTS, STEPS, WALLS AND LIGHT FOUNDATIONS SHALL BE 95% PROCTOR DENSITY MINIMUM, UNLESS OTHERWISE SPECIFIED.
13. GRADING AND EXCAVATION WORK SHALL BE COMPLETED DURING DRY AND NON-FREEZING WEATHER CONDITIONS.
14. THE CONTRACTOR SHALL REMOVE AND STOCKPILE TOPSOIL FOR REUSE ON-SITE. SOIL SHALL BE SCREENED TO REMOVE ROCKS AND BOULDERS.
15. IF STRUCTURAL SOIL IS FOUND ON-SITE, THE CONTRACTOR SHALL REUSE.
16. THE CONTRACTOR SHALL PREVENT SOIL LOST TO WIND AND WATER EROSION.
17. THE CONTRACTOR SHALL PROVIDE POSITIVE DRAINAGE AWAY FROM ALL STRUCTURES.
18. THE GENERAL CONTRACTOR SHALL INSTALL & MAINTAIN TEMPORARY DRAINAGE DEVICES DURING CONSTRUCTION.
19. THE CONTRACTOR SHALL VERIFY ALL CONTROL POINTS, FINISH FLOOR ELEVATIONS & PROPOSED SPOT ELEVATIONS WITH LANDSCAPE ARCHITECT PRIOR TO FORMWORK INSTALLATION.

## PLANTING NOTES

1. PLANT MATERIAL IS TO BE HEALTHY SPECIMENS FREE FROM DISEASE OR DAMAGE, AND IS TO BE MAINTAINED IN EXCELLENT CONDITION WHILE ON THE JOBSITE. LANDSCAPE ARCHITECT SHALL INSPECT PLANT MATERIAL UPON ARRIVAL TO JOBSITE AND WILL REJECT PLANT MATERIAL THAT DOES NOT MEET THE STANDARDS DESCRIBED WITHIN THE CONTRACT DOCUMENTS.
2. THE LANDSCAPE ARCHITECT WILL PERIODICALLY INSPECT PLANT MATERIAL STOCKPILED AND/OR PLANTED ON SITE DURING THE COURSE OF CONSTRUCTION. PLANT MATERIAL NOT MEETING THE STANDARDS CONTAINED WITHIN CONTRACT DOCUMENTS SHALL BE REPLACED AT NO COST TO THE OWNER.
3. PROVIDE MATCHING SIZES AND FORMS FOR EACH PLANT OF THE SAME SPECIES UNLESS OTHERWISE INDICATED.
4. CONTRACTOR IS TO VERIFY ALL QUANTITIES. IN CASE OF DISCREPANCIES, GRAPHICALLY SHOWN QUANTITIES SHALL TAKE PRECEDENCE.
5. ALL MATERIALS USED SHALL CONFORM TO THE GUIDELINES ESTABLISHED BY THE CURRENT AMERICAN STANDARDS FOR NURSERY STOCK, PUBLISHED BY THE AMERICAN ASSOCIATION OF NURSERYMEN.
6. ALL PLANT MATERIAL SHALL BE INSTALLED PLUMB AND PER THE SPECIFICATIONS CONTAINED WITHIN THE CONTRACT DOCUMENTS. ANY NECESSARY STAKING AND/OR OTHER SUPPORTS MATERIALS/METHODS SHALL BE SUBMITTED TO THE LANDSCAPE ARCHITECT FOR REVIEW AND APPROVAL PRIOR TO INSTALLATION.
7. THE CONTRACTOR SHALL PRUNE EXISTING AND/OR NEW TREES ONLY PER LANDSCAPE ARCHITECT DIRECTION.
8. THE CONTRACTOR SHALL STAKE THE LOCATIONS OF ALL TREES AND B&B SHRUBS FOR LANDSCAPE ARCHITECT REVIEW AND APPROVAL, PRIOR TO INSTALLATION.
9. ALL ROOT-WRAPPING MATERIALS THAT ARE NOT BIO-DEGRADABLE SHALL BE REMOVED FROM THE ROOT BALL. ROOT BALLS SHALL BE FREE OF WEEDS.
10. SPECIFIED PLANT MATERIAL SIZES SHALL BE CONSIDERED MINIMUM SIZES.
11. FINISH GRADE OF PLANTING BEDS SHALL BE ONE (1) INCH BELOW ADJACENT FLATWORK, UNLESS SPECIFIED OTHERWISE.
12. MULCH OR PLANTING BED DRESSING SHALL BE PLACED IN ALL PLANTING AREAS AS SPECIFIED. MULCH OR PLANTING BED DRESSING SHALL NOT BE PLACED WITHIN SIX (6) INCHES OF TREE TRUNKS. MULCHING SHOULD BE REPEATED ANNUALLY DURING THE AUTUMN TO A 3" DEPTH.
13. ALL PLANT MATERIAL SHOULD RECEIVE AN ORGANIC FERTILIZER IN LIMITED APPLICATION FOLLOWING INSTALLATION. TYPE AND APPLICATION RATE AND METHOD OF APPLICATION TO BE SPECIFIED BY THE CONTRACTOR & APPROVED BY THE LANDSCAPE ARCHITECT.
14. EXCESS FERTILIZER SHALL BE DISPOSED OF PROPERLY OFF-SITE. IT SHALL NOT BE DISPOSED OF IN STORM DRAINS AND/OR DRYWELLS.
15. STOCKPILED PLANT MATERIAL TO BE PLACED IN THE SHADE AND PROPERLY HAND-WATERED UNTIL PLANTED.
16. MINI-NUGGET TYPE DECORATIVE BARK MULCH WILL BE USED TO RETURN NUTRIENTS TO THE SOIL, REDUCE MAINTENANCE AND MINIMIZE EVAPORATION FOR AREAS APPROXIMATE TO THE RESIDENCE. LARGER SHREDDED BARK MULCH WILL BE USED FOR STEEP AREAS SO SLOUGHING IS LESS LIKELY TO OCCUR.
17. PRESERVE & PROTECT ALL EXISTING VEGETATION INDICATED TO REMAIN AT ALL TIMES.
18. ALL VEGETATION PROPOSED FOR OUTSIDE THE BUILDING ENVELOPE TO BE NATIVE UNLESS OTHERWISE NOTED. PLANTING THAT OCCURS OUTSIDE THE BUILDING ENVELOPE IS FOR RESTORATION PURPOSES ONLY OR IS SPECIFIC TO UTILITIES RESTORATION.

## SOIL EROSION CONTROL NOTES

1. PRIOR TO BEGINNING ANY EARTH CHANGE, THE CONTRACTOR WILL INSTALL AND MAINTAIN ALL SESC MEASURES AS SHOWN ON THE CONTRACT DOCUMENTS AND AS REQUIRED BY ANY GOVERNING AGENCIES
2. ALL SESC MEASURES WILL BE MAINTAINED DAILY.
3. THE CONTRACTOR WILL CONDUCT ALL EXCAVATION, FILLING, GRADING, AND CLEANUP OPERATIONS IN A MANNER SUCH THAT SEDIMENT, GENERATED BY WIND OR WATER IS NOT DISCHARGED INTO ANY STORM SEWER, DRAINAGE DITCH, RIVER, LAKE, AIR, OR UNDERGROUND UTILITY SYSTEM. STAGE WORK TO MINIMIZE THE AREA OF EXPOSED SOIL, THEREBY REDUCING THE OPPORTUNITY FOR SOIL EROSION.
4. WATER FROM TRENCHES AND OTHER EXCAVATION WILL BE PUMPED INTO A FILTRATION BAG TO REMOVE SEDIMENTS FROM THE WATER.
5. NORTH AMERICAN GREEN SC-150 OR EQUIVALENT EROSION CONTROL FABRIC IS REQUIRED ON ALL DISTURBED SLOPES GREATER THAN 3:1 UNTIL PROJECT AREA IS REVEGETATED PER THE PLANTING PLAN.
6. PROVIDE POSITIVE DRAINAGE AWAY FROM ALL STRUCTURES.
7. CONTRACTOR WILL PROVIDE ONSITE WATERING TO REDUCE FUGITIVE DUST FROM LEAVING THE SITE DURING CONSTRUCTION.
8. SOIL EROSION CONTROL MEASURES WILL BE PROVIDED FOR ALL EXISTING & PROPOSED DRAINAGE STRUCTURES WITHIN THE PROJECT LIMITS.
9. CONSTRUCTION STAGING AND PHASING SHALL OCCUR, WHERE APPLICABLE, TO MINIMIZE SOIL DISTURBANCE TIME.
10. BEST MANAGEMENT PRACTICES (BMPs) WILL BE ADJUSTED AS NEEDED TO MEET ANY OTHER UNFORESEEN CONDITIONS.
11. THE GENERAL CONTRACTOR IS RESPONSIBLE FOR INSTALLING A MUD TRACKING PAD/WASHING PAD AT THE CONSTRUCTION ENTRANCES TO MINIMIZE MUD DETACHMENT FROM TRUCK TIRES. 1-1/2" SCREENED ROCK TO BE PLACED ON MIRAFI 140-N FILTER FABRIC. ADDITIONAL CLEAN GRAVEL TO BE ADDED THROUGHOUT THE DURATION OF CONSTRUCTION AS NEEDED.
12. CONTRACTOR WILL ABIDE BY THE LOCAL, STATE AND FEDERAL JURISDICTIONS AND GOVERNING BODIES/AGENCIES CONSTRUCTION MANAGEMENT PLAN REQUIREMENTS.
13. RESEED AS INDICATED IN SEEDING NOTES.

**OWNER:** SRCS VENETIA VALLEY K-8

**PROJECT NAME:** CLASSROOM REPLACEMENT AND NEW MPR BUILDING

**CLIENT ADDRESS:** 177 N San Pedro Rd, San Rafael, CA 94903

**DESIGN DEVELOPMENT SET**

**SEAL:**

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DIVISION OF THE STATE ARCHITECT
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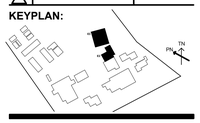

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**SCALE:** NONE

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# NOTES

BASE LANDSCAPE ARCHITECTURE
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## SEEDING NOTES

1. ALL NEWLY REGRADED SLOPES WILL BE REVEGETATED IN THE FOLLOWING MANNER:

3. SEED MIXTURES AND FERTILIZER SHALL BE APPLIED PER THE GOVERNING JURISDICTIONS REQUIREMENTS.

4. ALL SEED MUST BE CERTIFIED WEED FREE. NO SEED CAN CONTAIN ANY SPECIES ON THE CITY, COUNTY OR STATE NOXIOUS WEED LISTS. SEED MIXES SHOULD HAVE THE CERTIFIED SEED BLUE TAG OR SOURCE IDENTIFIED SEED (YELLOW TAG). ONLY SEED WITH A COMPLETE ANALYSIS LABEL ON THE BAG AND A CURRENT GERMINATION TEST CONDUCTED BY AN ACCREDITED LABORATORY WILL BE ACCEPTED.

5. SEEDING SHOULD OCCUR IN THE EARLY SPRING AND LATE FALL; SEEDING SHOULD NOT BE DONE WHEN THE GROUND IS FROZEN. FOR WARM SEASON SPECIES, SEEDING IN LATE SPRING OR EARLY SUMMER IS MORE LIKELY TO ACCOMPANY TEMPERATURES WARM ENOUGH TO SUPPORT GERMINATION. SEED THE SITE AS SOON AS FINAL GRADING AND TOPSOIL PLACEMENT HAVE OCCURRED TO MINIMIZE EROSION AND WEED ESTABLISHMENT ON THE PROJECT. DURING PERIODS OF TIME WHEN SEEDING CANNOT BE ACCOMPLISHED, SOILS SHOULD NOT REMAIN UNPROTECTED.

6. DRILL SEEDING SHOULD BE UTILIZED ON SLOPES 3:1 OR FLATTER. DRILL SEEDING CANNOT BE ACCOMPLISHED WHERE SOILS ARE EXTREMELY ROCKY OR SLOPES ARE STEEP. IN GENERAL, SEED TO A DEPTH OF 0.25 TO 0.5 INCHES (0.6 TO 1.3 CENTIMETERS). DRILL TUBE SPACING SHOULD BE 6-7 INCHES. SEEDING SHOULD BE CONDUCTED ALONG THE CONTOUR TO AVOID EROSION FROM WATER FLOWING DOWN DRILL FURROWS. SEEDING RATE: 6-10 PURE LIVE SEED (PLS)/ACRE. OTHERWISE, 8-12 PLS/ACRE.

7. BROADCAST SEEDING CAN BE USED ON SLOPES THAT ARE STEEP (GREATER THAN 3:1), EXTREMELY ROCKY, REMOTE OR INACCESSIBLE. BROADCAST SEEDING REQUIRES DOUBLE OR TRIPLE THE SEEDING RATE OF DRILL SEEDING, AND CALIBRATION OF SEEDING RATES IS LESS PRECISE THAN WITH DRILL SEEDING. SOILS TO BE RAKED OR HARROWED TO ELIMINATE CRUSTING BEFORE ACCEPTING BROADCAST SEED. AFTER BROADCASTING THE SEED, COVER THE SEED BY HARROWING OR RAKING. CARE SHOULD BE TAKEN WHEN SEEDING TO PROVIDE UNIFORM COVERAGE (EVEN SEED APPLICATION RATES) OVER THE SITE. SEEDING SHOULD NOT BE ATTEMPTED ON WINDY DAYS.

8. HYDROSEEDING SHOULD BE SPRAYED ON A ROUGHENED SLOPE USING A HYDROSEEDING MACHINE AND SHOULD BE USED TO REACH AREAS THAT ARE INACCESSIBLE BY DRILLING OR BROADCAST METHODS. USE SHOULD BE LIMITED TO STEEP (GREATER THAN 3:1), INACCESSIBLE SLOPES IN AREAS WITH ADEQUATE AND DEPENDABLE MOISTURE DURING THE GROWING SEASON. HYDROMULCHING SHOULD OCCUR AS A SEPARATE PROCESS AFTER HYDROSEEDING. DO NOT MIX SEED AND MULCH TOGETHER IN ONE WATER APPLICATION PROCESS AS THIS WILL PREVENT SEEDS FROM COMING INTO CONTACT WITH THE SOIL.

9. THE SITE MUST BE MULCHED WITH WEED-FREE MULCH (HAY OR HYDROMULCH) AFTER PLANTING.

10. HAY MULCH MUST BE WEED-FREE. HAY SHOULD BE "CRIMPED" INTO THE SOIL SURFACE BY USING A MODIFIED DISC PLOW TO JAM THE HAY STEMS INTO THE SOIL TO REDUCE SURFACE WIND SPEEDS AND SOIL DESICCATION. APPLY AT THE RATE OF 3,000 TO 4,000 POUNDS PER ACRE (3360-4480 KG/HA). ADD AN ORGANIC-BASED TACKIFIER AT THE RATE OF 150 LBS. PER ACRE TO PREVENT EROSION.

11. HYDROMULCH SHOULD BE APPLIED SEPARATELY FOLLOWING SEED APPLICATION. DO NOT OVERSPRAY AS THIS MAY RESULT IN EROSION. AN ORGANIC TACKIFIER SHOULD BE ADDED TO THE SLURRY TO ENHANCE THE DURABILITY OF THE APPLIED MULCH COVER. APPLY AT A RATE OF 3,000 POUNDS PER ACRE (3360 KG/HA). ADD AN ORGANIC-BASED TACKIFIER AT THE RATE OF 150 LBS. PER ACRE TO PREVENT EROSION.

## IRRIGATION NOTES

1. IRRIGATION PLAN IS CONCEPTUAL, FURTHER DESIGN TO BE COMPLETED BY IRRIGATION CONTRACTOR.

2. IRRIGATION SYSTEM SHALL BE DESIGNED TO CONSERVE WATER TO THE EXTENT POSSIBLE THROUGH THE USE OF EFFICIENT HEADS, MICROCLIMATE-SPECIFIC ZONES AND A WEATHER MONITORING CONTROL STATION.

3. ALL NEW TREES AND SHRUBS ARE TO RECEIVE DRIP-TYPE IRRIGATION.

4. ALL REVEGETATED AREAS TO BE RECEIVE SPRAY-TYPE IRRIGATION FOR FIRST TWO GROWING SEASONS MINIMUM.

5. ALL PERENNIAL BEDS TO RECEIVE SPRAY-TYPE IRRIGATION.

6. ALL SPRAY TYPE IRRIGATION TO BE DIRECTED AWAY FROM STRUCTURES.

7. INSTALL SPRAY HEADS ALONG SIDEWALKS ON POP-UP RISERS.

8. LOCATE HEADS SO THEY ARE PROTECTED FROM TRAVEL AND DO NOT CAUSE WATER TO FALL ON PAVED, MASONRY, OR OTHER ARCHITECTURAL SURFACES.

9. ADJUST HEAD LOCATION IF SPRAY IS DETRIMENTAL TO OR BLOCKED BY TREE, SHRUB, OR STRUCTURE, MAINTAINING EVEN COVERAGE OF PLANTING AREAS.

10. GENERAL CONTRACTOR TO COORDINATE SIZE AND LOCATION OF SLAB PENETRATIONS FOR IRRIGATION EQUIPMENT WITH MECHANICAL CONTRACTORS.

11. INSTALL MAIN LINES TO SLOPE AT 1% MINIMUM TO MANUAL DRAIN VALVES LOCATED AT LOW POINTS OF MAIN SYSTEM.

12. INSTALL 3/4" POLYETHYLENE LATERAL LINES TO SLOPE AT 1% MINIMUM TO AUTOMATIC DRAIN VALVES LOCATED AT LOW POINTS OF LATERAL SYSTEMS.

13. TRENCHES ARE TO BE OF SUFFICIENT DEPTH TO PROVIDE 18" OF COVER OVER LATERAL LINES. SLEEVED LINES SHALL HAVE A MINIMUM COVER OF 24". TRENCHES ARE TO BE BACKFILLED WITH MATERIAL FREE OF ROCKS GREATER THAN 3/4" IN DIAMETER.

14. INSTALL BACKFLOW PREVENTOR(S) IN COORDINATION WITH GENERAL CONTRACTOR. BACKFLOW PREVENTORS SHALL BE INSTALLED PLUMB AND SQUARE WITH ADJACENT PAVEMENT EDGES OR STRUCTURES.

15. CONTROL VALVE BOX AND HEAD BOX LOCATIONS TO BE APPROVED BY LANDSCAPE ARCHITECT PRIOR TO INSTALLATION.

16. THE FINAL LOCATION AND EXACT POSITIONING OF THE AUTOMATIC CONTROLLER SHALL BE APPROVED BY THE OWNER'S AUTHORIZED REPRESENTATIVE OR GENERAL CONTRACTOR PRIOR TO INSTALLATION.

17. VALVE BOXES SHALL BE INSTALLED FLUSH WITH FINISH GRADE AND ALIGN VALVE BOXES WITH ADJACENT PAVEMENT EDGES OR STRUCTURES. VALVE BOXES SHALL BE OF PLASTIC WITH BOLT DOWN LID.

18. CONCEAL ALL IRRIGATION BOXES IN PLANTING BEDS WHERE APPLICABLE AND COVER WITH MULCH. VALVE BOXES TO BE PLACED A MINIMUM OF 12" FROM AND PARALLEL TO CURBS AND WALKS. GROUPED VALVES TO BE EQUALLY SPACED AND PARALLEL.

19. CONTRACTOR TO MAINTAIN A SET OF "AS-BUILT" DRAWINGS THROUGHOUT THE COURSE OF CONSTRUCTION, AND DELIVER THESE DRAWINGS TO OWNER'S REPRESENTATIVE & LANDSCAPE ARCHITECT UPON COMPLETION OF WORK.

20. EXCAVATIONS TO BE BACKFILLED TO 90% COMPACTION, MINIMUM. CONTRACTOR TO REPAIR SETTLED TRENCHED FOR ONE YEAR AFTER COMPLETION OF WORK. CONTRACTOR TO WARRANT THAT THE SYSTEM WILL BE FREE FROM DEFECTS IN MATERIAL AND WORKMANSHIP FOR A PERIOD OF ONE YEAR AFTER COMPLETION OF WORK.

21. GENERAL CONTRACTOR TO COORDINATE SIZE AND LOCATION OF SLAB PENETRATIONS FOR IRRIGATION EQUIPMENT WITH STRUCTURAL AND MECHANICAL CONTRACTORS.

22. EXERCISE EXTREME CARE IN EXCAVATING AND WORKING NEAR EXISTING UTILITIES AND IN EXISTING TREE ROOT ZONES. VERIFY THE LOCATION AND CONDITION OF ALL UTILITIES AND BE RESPONSIBLE FOR DAMAGE TO ALL UTILITIES. REPAIR ANY DAMAGE CAUSED BY OR DURING THE PERFORMANCE OF WORK AT NO ADDITIONAL COST TO THE OWNER. FIELD ADJUST SPRINKLER LOCATIONS SO AS TO AVOID CONFLICTS WITH UTILITIES (FIRE HYDRANTS, TRANSFORMERS, ETC.).

23. FLUSH AND ADJUST SPRINKLER HEADS FOR OPTIMUM PERFORMANCE. THIS SHALL INCLUDE THROTTLING THE FLOW CONTROL AT EACH VALVE TO OBTAIN THE OPTIMUM OPERATING PRESSURE FOR EACH SYSTEM.

24. THE IRRIGATION SYSTEM IS TO BE COMPLETELY DRAINED TO PROTECT PIPE FROM BURSTING PRIOR TO FREEZING TEMPERATURES ANNUALLY.

## SITEWORK ABBREVIATIONS

| | |
|---|---|
| APPROX | APPROXIMATE |
| ARCH | ARCHITECT |
| AVG | AVERAGE |
| B&B | BALLED AND BURLAP |
| BC | BOTTOM OF CURB |
| BF | BOTTOM OF FOOTING |
| BM | BENCHMARK |
| BW | BOTTOM OF WALL |
| BRG | BEARING |
| CL | CENTERLINE |
| CAL | CALIPER |
| CAP | CAPACITY |
| CHAM | CHAMFER |
| CIP | CAST IN PLACE |
| CJ | CONTROL JOINT |
| CLR | CLEARANCE |
| CO | CLEAN OUT |
| COMP | COMPACTED |
| CONC | CONCRETE |
| CONSTR | CONSTRUCTION |
| CONT | CONTINUOUS |
| CONTR | CONTRACTOR |
| CU | CUBIC |
| CF | CUBIC FEET |
| DBL | DOUBLE |
| DF | DIRECTION OF FLOW |
| DEG | DEGREE |
| DEMO | DEMOLISH, DEMOLITION |
| DTL | DETAIL |
| DWG | DRAWING |
| EA | EACH |
| EJ | EXPANSION JOINT |
| EL | ELEVATION |
| ELEC | ELECTRICAL |
| ENG | ENGINEER |
| EQ | EQUAL |
| EQUIP | EQUIPMENT |
| EST | ESTIMATE |
| EW | EACH WAY |
| EXIST | EXISTING |
| EXP | EXPANSION, EXPOSED |
| FFE | FINISH FLOOR ELEVATION |
| FG | FINISHED GRADE |
| FIN | FINISH |
| FL | FLOW LINE |
| FOC | FACE OF CONCRETE |
| FS | FINISH SURFACE |
| FT | FOOT |
| FTG | FOOTING |
| GA | GAUGE |
| GAL | GALVANIZED |
| GC | GENERAL CONTRACTOR |
| GEN | GENERAL |
| HORIZ | HORIZONTAL |
| HP | HIGH POINT |
| HT | HEIGHT |
| ID | INSIDE DIAMETER |
| INV | INVERT ELEVATION |
| IN | INCHES |
| INCL | INCLUDED |
| IRR | IRRIGATION |
| JT | JOINT |
| LIN | LINEAR |
| LAND | LANDSCAPE |
| LP | LOW POINT |
| LT | LIGHT |
| MATL | MATERIAL |
| MAX | MAXIMUM |
| MEMB | MEMBRANE |
| MH | MANHOLE |
| MIN | MINIMUM |
| MISC | MISCELLANEOUS |
| MTD | MOUNTED |
| MTL | METAL |
| NIC | NOT IN CONTRACT |
| NO | NUMBER |
| NOM | NOMINAL |
| NTS | NOT TO SCALE |
| OC | ON CENTER |
| OD | OUTSIDE DIAMETER |
| OPP | OPPOSITE |
| PA | PLANTING AREA |
| PAR | PARALLEL |
| POB | POINT OF BEGINNING |
| POC | POINT OF CURVATURE |
| PERF | PERFORATED |
| PED | PEDESTRIAN |
| PI | POINT OF INTERSECTION |
| PL | PROPERTY LINE |
| PT | POINT, POINT OF TANGENCY |
| PVC | POLYVINYL CHLORIDE |
| PVMT | PAVEMENT |
| PVR | PAVER |
| QNTY | QUANTITY |
| R | RADIUS |
| RECEP | RECEPTACLE |
| REF | REFERENCE |
| REINF | REINFORCED |
| REM | REMOVE |
| REQD | REQUIRED |
| REV | REVISION, REVISED |
| ROW | RIGHT OF WAY |
| SAN | SANITARY |
| SCH | SCHEDULE |
| SD | STORM DRAIN |
| SEC | SECTION |
| SF | SQUARE FOOT (FEET) |
| SHT | SHEET |
| SIM | SIMILAR |
| SNT | SEALANT |
| SPECS | SPECIFICATIONS |
| SQ | SQUARE |
| STA | STATION |
| STD | STANDARD |
| STL | STEEL |
| STRL | STRUCTURAL |
| SYM | SYMMETRICAL |
| T&B | TOP AND BOTTOM |
| TC | TOP OF CURB |
| TF | TOP OF FOOTING |
| THK | THICK |
| TOPO | TOPOGRAPHY |
| TS | TOP OF STEP |
| TP | TOP OF PAVEMENT/PAVER |
| TW | TOP OF WALL |
| TRAS | TRANSFORMER |
| TR | TOP OF RAMP |
| TYP | TYPICAL |
| VAR | VARIES |
| VERT | VERTICAL |
| VEH | VEHICLE |
| VOL | VOLUME |
| W/ | WITH |
| W/O | WITHOUT |
| WT | WEIGHT |
| WWF | WELDED WIRE FABRIC |
| YD | YARD |

**OWNER:** SRCS VENETIA VALLEY K-8

**PROJECT NAME:** CLASSROOM REPLACEMENT AND NEW MPR BUILDING

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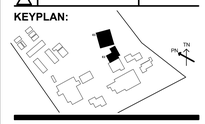

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# NOTES

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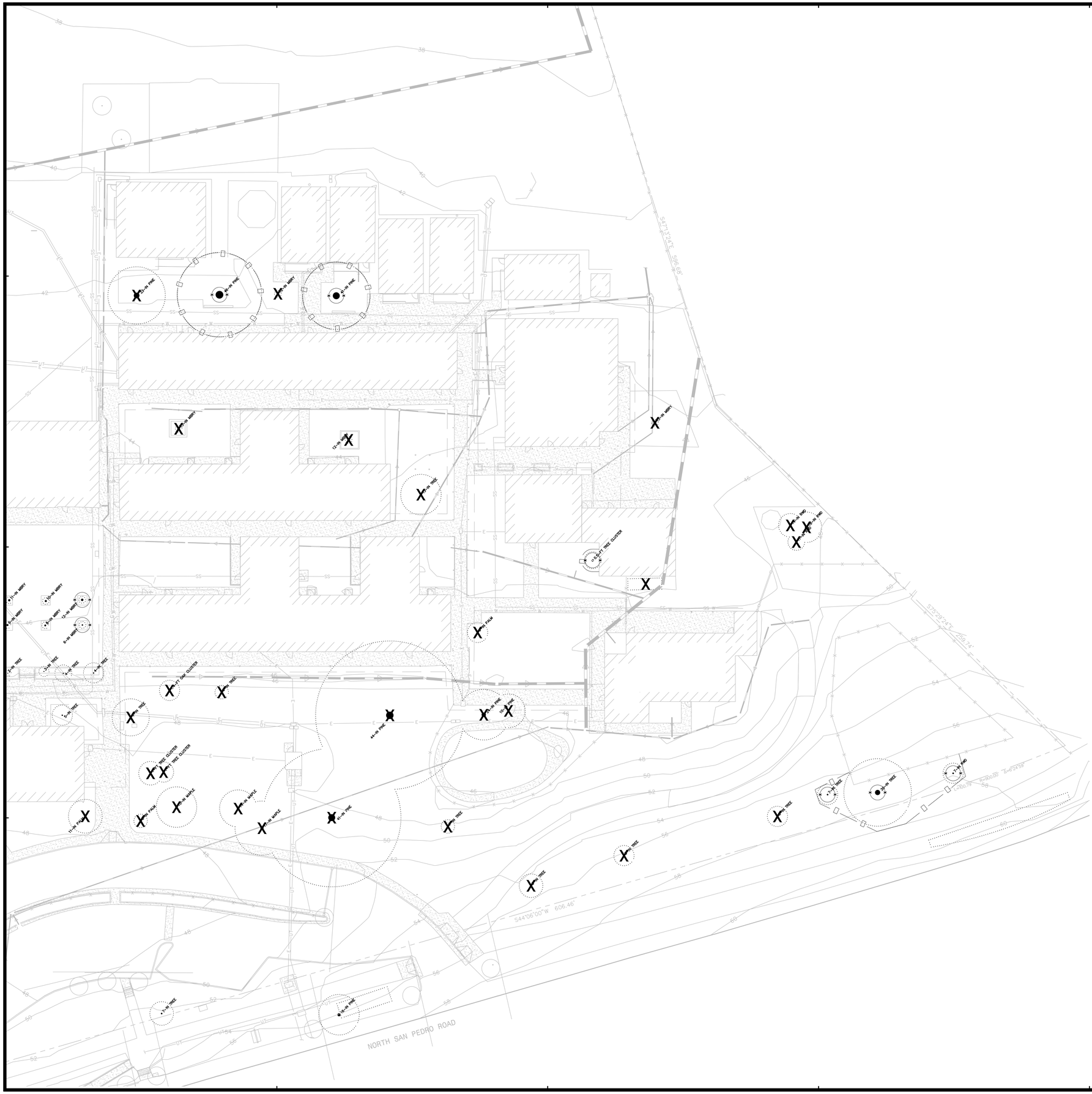


## LEGEND

- (E) TREE TO BE PROTECTED
- X (E) TREE TO BE REMOVED
- LIMIT OF WORK (L.O.W.)
- TREE PROTECTION FENCE
- (E) TREE WITH DRIPLINE

## L1.01 - TREE PROTECTION NOTES

1. TREE PRESERVATION MEASURES MUST BE IN PLACE BEFORE DEMOLITION, CONSTRUCTION, AND/OR GRADING ACTIVITIES COMMENCE.
2. ANY TREE CARE PRACTICES, SUCH AS CUTTING OF ROOTS, PRUNING THE TOP, ETC., SHALL BE ADEQUATELY DESCRIBED AND SHALL HAVE THE APPROVAL OF THE OWNER'S ARBORIST PRIOR TO EXECUTION. THE CONTRACTOR IS REQUIRED TO HAVE AN ARBORIST CERTIFIED BY THE INTERNATIONAL SOCIETY OF ARBORICULTURE (ISA) IF SITE CONSTRUCTION EFFORTS REQUIRE REMOVAL OF ROOTS OF EXISTING TREES TO REMAIN OR BRANCH PRUNING.
3. EXISTING TREES SHALL BE FENCED PRIOR TO ANY WORK. SOIL COMPACTION UNDER TREES IS TO BE AVOIDED. THE FENCE SHALL PREVENT EQUIPMENT TRAFFIC AND STORAGE UNDER TREES, AND SHOULD EXTEND JUST BEYOND THE DRIP-LINE. EXCAVATION WITHIN THIS ZONE SHALL BE ACCOMPLISHED BY HAND AND ROOTS LARGER THAN 1" IN DIAMETER SHALL BE PRESERVED.
4. DO NOT STORE CONSTRUCTION MATERIALS, DEBRIS, EXCAVATED MATERIAL, OR ANY OTHER MATERIAL WITHIN THE DRIP LINE OF REMAINING TREES. DO NOT PERMIT VEHICLES OR FOOT TRAFFIC WITHIN THE DRIP LINE. PREVENT SOIL COMPACTION OVER ROOT SYSTEMS.
5. DO NOT EXCAVATE WITHIN DRIP LINE OF TREES, UNLESS OTHERWISE NOTED IN THESE DRAWINGS.
6. DO NOT ALLOW EXPOSED ROOTS TO DRY OUT BEFORE PLACING PERMANENT BACKFILL. PROVIDE TEMPORARY EARTH COVER OR PACK WITH PEAT MOSS AND WRAP WITH BURLAP. WATER AND MAINTAIN IN A MOIST CONDITION. TEMPORARILY SUPPORT AND PROTECT ROOTS FROM DAMAGE UNTIL THEY ARE PERMANENTLY RELOCATED AND COVERED WITH SOIL.
7. IMMEDIATELY REPORT TREE DAMAGE TO THE OWNER'S REPRESENTATIVE AND REPAIR DAMAGED TREES WITHIN 24 HOURS OF OCCURRENCE. TREAT DAMAGED TRUNK, LIMBS, AND ROOTS ACCORDING TO WRITTEN INSTRUCTIONS OF THE OWNER'S REPRESENTATIVE.
8. WHERE IT IS NECESSARY TO EXCAVATE ADJACENT TO EXISTING TREES, USE ALL POSSIBLE CARE TO AVOID INJURY TO TREES AND TREE ROOTS. EXCAVATION IN AREAS WHERE 2 INCH IN DIAMETER AND LARGER ROOTS OCCUR SHALL BE DONE BY HAND.
9. ALL ROOTS 2 INCHES AND LARGER IN DIAMETER SHALL BE TUNNELED UNDER AND SHALL BE HEAVILY WRAPPED WITH PEAT AND BURLAP TO PREVENT SCARRING DRYING. WHERE A DITCHING MACHINE IS RUN CLOSE TO TREES HAVING ROOTS SMALLER THAN 2 INCHES IN DIAMETER, THE WALL OF THE TRENCH AND ADJACENT TO THE TREE SHALL BE HAND TRIMMED, MAKING CLEAN CUTS THROUGH. ROOTS 1 INCH AND LARGER IN DIAMETER SHALL BE PAINTED WITH TWO COATS OF SEAL OR EQUIVALENT.
10. TRENCHES ADJACENT TO TREE SHOULD BE CLOSED WITHIN 24 HOURS. WHERE THIS IS NOT POSSIBLE, THE SIDE OF THE TRENCH ADJACENT TO THE TREE SHALL BE KEPT SHADED WITH BURLAP OR CANVAS.
11. TRENCHING ADJACENT TO EXISTING TREES SHALL BE AT THE DIRECTION OF THE OWNER'S REPRESENTATIVE.

0 20 40 60 80 feet
1" = 20'

NORTH

**OWNER:** SRCS VENETIA VALLEY K-8

**PROJECT NAME:** CLASSROOM REPLACEMENT AND NEW MPR BUILDING

**CLIENT ADDRESS:** 177 N San Pedro Rd, San Rafael, CA 94903

**DESIGN DEVELOPMENT SET**

**SEAL:**

IDENTIFICATION STAMP
DIVISION OF THE STATE ARCHITECT
OFFICE OF REGULATION SERVICES

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DATE _____

**REVISIONS:**

| | DESCRIPTION | DATE |
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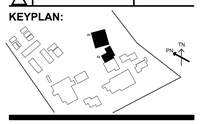
**KEYPLAN:**



**DATE ISSUED:** 08/18/2017

**PROJECT NO:** 2017 - 40140

**SCALE:** 1" = 20'-0"

**SHEET NUMBER:** L1.00

**SHEET TITLE:**

# TREE PROTECTION PLAN AND LEGEND

BASE LANDSCAPE ARCHITECTURE
2901 MARIPOSA STREET #5,
SAN FRANCISCO, CA, 94110
WWW.BASELANDSCAPE.COM

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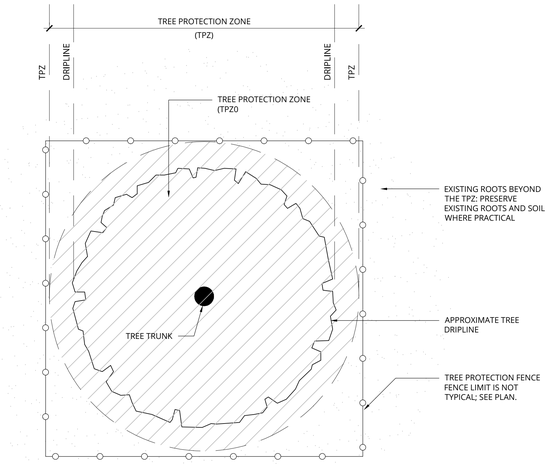
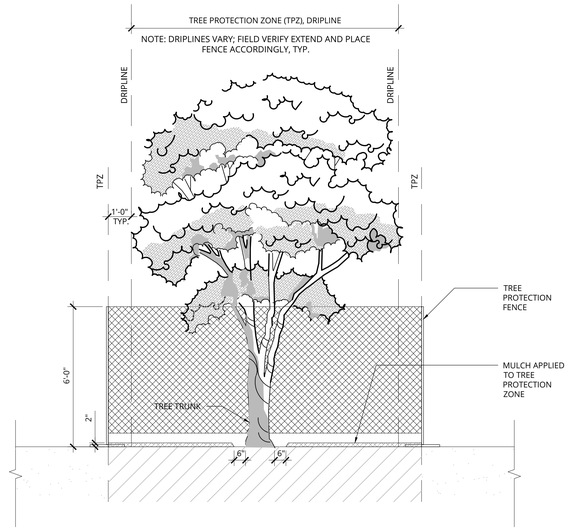



PLAN




SECTION

1 TREE PROTECTION WITH FENCE

3/8" = 1'-0"

**OWNER:** SRCS VENETIA VALLEY K-8

**PROJECT NAME:** CLASSROOM REPLACEMENT AND NEW MPR BUILDING

CLIENT ADDRESS: 177 N San Pedro Rd, San Rafael, CA 94903

**DESIGN DEVELOPMENT SET**

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DATE _____

**REVISIONS:**

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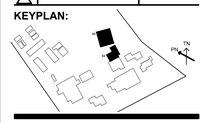
**KEYPLAN:**




**DATE ISSUED:** 08/18/2017

**PROJECT NO:** 2017 - 40140

**SCALE:** AS NOTED

**SHEET NUMBER:** L1.01

**SHEET TITLE:**

# TREE PROTECTION DETAILS

BASE LANDSCAPE ARCHITECTURE
2901 MARIPOSA STREET #5,
SAN FRANCISCO, CA, 94110
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## LEGEND (NOT ALL ELEMENTS APPEAR ON EACH PAGE)

- AC PAVING (SCD)
- AC PAVING AT FIRE LANE (SCD)
- EXISTING CONCRETE PAVING TO REMAIN
- CONCRETE PAVING (SCD) (1 L4.00) (2 L4.00)
- DECKING (1 L4.06)
- GRAVEL PAVING (4 L4.00)
- GRAVELPAVE (6 L4.00)
- ACRYLIC COLOR SURFACE ON HARDSCAPE (7 L4.01)
- SYNTHETIC SAFETY SURFACE (5 L4.00)
- ENGINEERED WOOD FIBER (EWF) (8 L4.00)
- SYNTHETIC TURF (7 L4.00)
- NATURAL TURF (3 L5.01)
- P.A. PLANTING AREA SEE PLANTING PLAN FOR PLANT LAYOUT
- B.R. BIORETENTION AREA (SCD) SEE PLANTING PLAN FOR PLANT LAYOUT
- LIMIT OF WORK (L.O.W.)
- E ELECTRICAL OUTLET ON EXTERIOR BLDG WALL (SAD, SED)
- LOCKING HOSE BIB (6 L4.04)
- PRECAST CONCRETE BENCH - LINEAR (2 L4.01)
- PRECAST CONCRETE BENCH - CIRCULAR (3 L4.01)
- PRECAST CONCRETE PEBBLES (4 L4.01)
- PRECAST CONCRETE BOLLARD - FIXED (5 L4.01)
- BIKE RACKS NOT INDICATED ON PLAN. PROVIDE ALLOWANCE FOR QTY:6 (1 L4.04)
- BIKE LOCKERS NOT INDICATED ON PLAN. PROVIDE ALLOWANCE FOR QTY:4 (2 L4.04)
- TRASH AND RECYCLING RECEPTACLES NOT INDICATED ON PLAN. PROVIDE ALLOWANCE FOR QTY:5 OF EACH (3 L4.04)
- NEW TREE (1 L5.01)
- 1 6" WIDE CONCRETE CURB - FLUSH (3 L4.00)
- 2 6" WIDE CONCRETE CURB - 6" HIGH (3 L4.00)
- 3 6" WIDE CONCRETE CURB - HEIGHTENED (3 L4.00)
- 4 CONCRETE CURB AT BIOSWALE (SCD)
- 5 CONCRETE AMPHITHEATER (6 L4.01)
- 6 CONCRETE STEPS AND HANDRAIL (3 L4.03)
- 7 CONCRETE RAMP AND HANDRAIL (1 L4.07)
- 8 CIRCULAR WOOD PLATFORM BENCH (1 L4.01)
- 9 SYNTHETIC TURF OUTDOOR CLASSROOM (1 L4.02)
- 10 PLAY MOUNDS - SYNTHETIC SAFETY SURFACE (2 L4.02)
- 11 GAGA BALL PIT (8 L4.04)
- 12 TETHERBALL (5 L4.04)
- 13 FOUR SQUARE COURT (4 L4.04)
- 14 EXISTING PLAY STRUCTURE TO REMAIN WITH REPLACEMENT ITEMS (2 L4.07)
- 15 PLAY EQUIPMENT (2 L4.05)
- 16 OMNI SPINNER (7 L4.04)
- 17 TIMBERFORM STEPPING COLUMN CLUSTER (3 L4.05)
- 18 TIMBERFORM LOG STACK (4 L4.05)
- 19 TIMBERFORM LOG SCRAMBLE - LARGE (1 L4.05)
- 20 TIMBERFORM LOG SCRAMBLE - SMALL (5 L4.05)
- 21 FENCE - 6' TWIN BAR (3 L4.08)
- 22 GATE - SINGLE SWING, TWIN BAR (1 L4.08)
- 23 GATE - DOUBLE SWING, TWIN BAR (2 L4.08)
- 24 GATE - CANTILEVER SLIDE, TWIN BAR (4 L4.08)

0 20 40 60 80 feet
1" = 20'

NORTH

SCD = SEE CIVIL DRAWINGS
SAD = SEE ARCHITECTURAL DRAWINGS
SED = SEE ELECTRICAL DRAWINGS

**OWNER:** SRCS VENETIA VALLEY K-8

**PROJECT NAME:** CLASSROOM REPLACEMENT AND NEW MPR BUILDING

**CLIENT ADDRESS:** 177 N San Pedro Rd, San Rafael, CA 94903

# DESIGN DEVELOPMENT SET

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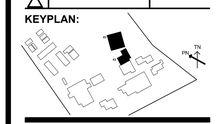
**KEYPLAN:**



**DATE ISSUED:** 08/18/2017
**PROJECT NO:** 2017 - 40140
**SCALE:** 1" = 20'-0"

**SHEET NUMBER:** L2.00

**SHEET TITLE:**

# MATERIALS PLAN AND LEGEND

BASE LANDSCAPE ARCHITECTURE
2901 MARIPOSA STREET #5,
SAN FRANCISCO, CA, 94110
WWW.BASELANDSCAPE.COM

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0 20 40 60 80 feet

1" = 20'

NORTH

**OWNER:** SRCS VENETIA VALLEY K-8

**PROJECT NAME:** CLASSROOM REPLACEMENT AND NEW MPR BUILDING

**CLIENT ADDRESS:** 177 N San Pedro Rd, San Rafael, CA 94903

# DESIGN DEVELOPMENT SET

**SEAL:**

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DATE _____

**REVISIONS:**

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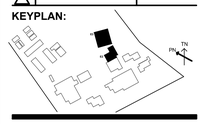
**KEYPLAN:**



**DATE ISSUED:** 08/18/2017

**PROJECT NO:** 2017 - 40140

**SCALE:** 1" = 20'-0"

**SHEET NUMBER:** L3.00

**SHEET TITLE:**

## LAYOUT PLAN

BASE LANDSCAPE ARCHITECTURE
2901 MARIPOSA STREET #5,
SAN FRANCISCO, CA, 94110
WWW.BASELANDSCAPE.COM

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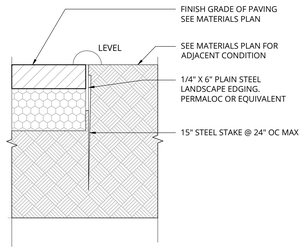
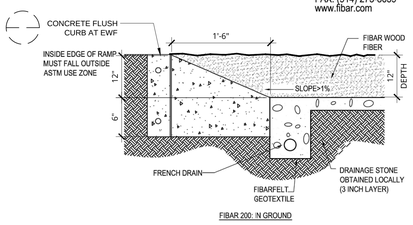



## 9 STEEL EDGE

1 1/2" = 1'-0"

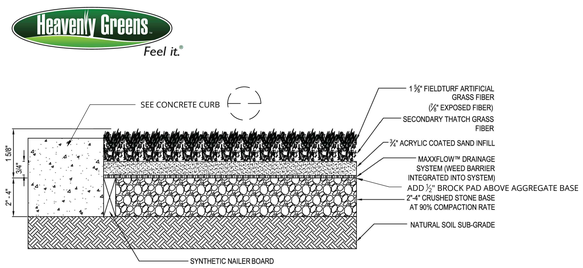
FIBAR SYSTEMS
80 BUSINESS PARK DRIVE, SUITE 300
ARMONK, NY 10504-1705
TOLL FREE: 1-800-342-2721
PHONE: (914) 273-8770
FAX: (914) 273-8659
www.fibar.com




FIBAR 200: IN GROUND

## 8 ENGINEERED WOOD FIBER [EWF] (MFR DETAIL)

1" = 1'-0"




EDGE DETAIL- CONCRETE CURB

EDGE DETAIL- LANDSCAPE EDGING MATERIAL

NOTES:
1. DRAINAGE RATE > 250 INCHES PER HOUR.
2. 100% POLYETHYLENE GRASS FIBER AND SECONDARY THACH FIBER. SECONDARY THACH FIBER AVAILABLE IN NUTMEG AND OLIVE COLORED YARN.
3. ADA COMPLIANT SYNTHETIC GRASS ACCESSIBLE SURFACE.
4. INSTALLATION TO BE COMPLETED IN ACCORDANCE WITH MANUFACTURER'S SPECIFICATIONS.
5. ALL DIMENSIONS ARE CONSIDERED TRUE AND REFLECT MANUFACTURER'S SPECIFICATIONS.
6. CONTRACTOR'S NOTE: FOR PRODUCT AND COMPANY INFORMATION VISIT www.CADdetails.com/info REFERENCE NUMBER 4124-002.

Nutmeg LUSH
100% NYLON FREE FIELDTURF SYNTHETIC GRASS SYSTEM

4124-002

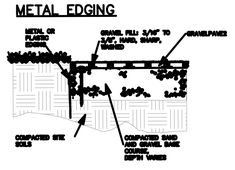
Heavenly Greens
370 Umbarger Rd., San Jose, CA 95111
(866) 724-8873 | www.heavenlygreens.com

NOTE:
TURF WILL NOT RECEIVE SAND INFILL.

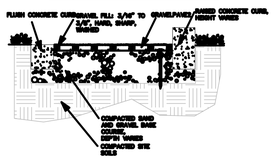
## 7 SYNTHETIC TURF

1" = 1'-0"

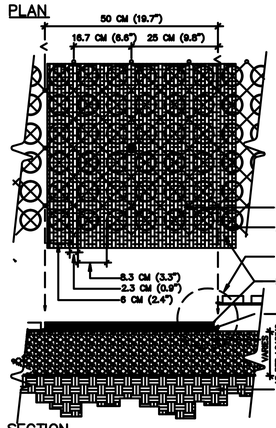
### METAL EDGING



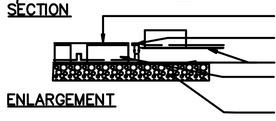

### CONCRETE CURB EDGING




### PLAN




### SECTION




### ENLARGEMENT

### SPECIFICATIONS

UNITS
UNIT SIZE – 50 CM X 50 CM X 2.5 CM
(20" X 20" X 1")
AVAILABLE IN 9 STANDARD ROLL SIZES

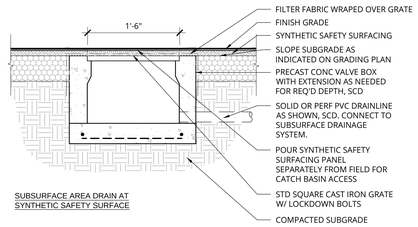
UNIT WEIGHT – 538 GRAMS (19 OZ.)
OR 2.2 KG (4.8 POUNDS)
STRENGTH – 402 KG/CM (5720 PSI)
COLOR – BLACK (STANDARD)
RESIN – 100% POST-CONSUMER
RECYCLED HDPE/LDPE

FABRIC
WEIGHT – 3.5 OZ/SY(120 GM/M )
TENSILE – 120 LB/FT (565 KG/M )
FLOW – 275 GAL/MIN/SF (11,000 L/MIN/M )
OPTIONS – CUSTOM FABRIC TO 6 OZ
AVAILABLE.

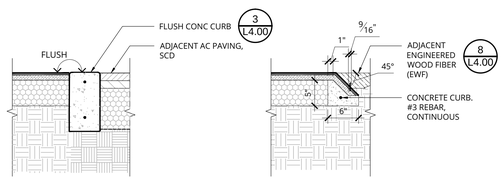
NOTE:
GRAVELPAVE2 IS AVAILABLE FROM INVISIBLE STRUCTURES, INC. (800)-233-1510

## 6 GRAVELPAVE (MFR DETAIL)

NTS

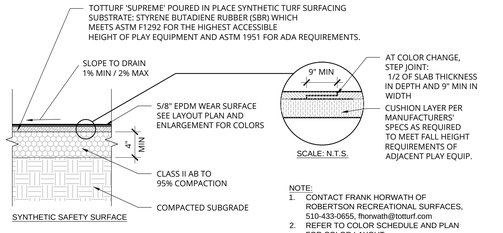



SUBSURFACE AREA DRAIN AT
SYNTHETIC SAFETY SURFACE




SYNTHETIC SAFETY SURFACE
AT CONCRETE FLUSH CURB

SYNTHETIC SAFETY SURFACE
AT ENGINEERED WOOD FIBER (EWF)



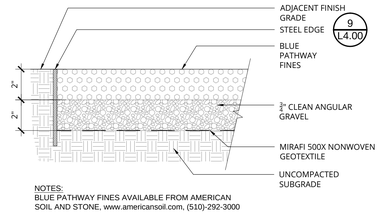

SCALE: N.T.S.

SYNTHETIC SAFETY SURFACE

NOTE:
1. CONTACT FRANK HORWATH OF ROBERTSON RECREATIONAL SURFACES, 510-433-0655, fhorwath@totturf.com
2. REFER TO COLOR SCHEDULE AND PLAN FOR COLOR LAYOUT.

## 5 SYNTHETIC SAFETY SURFACE

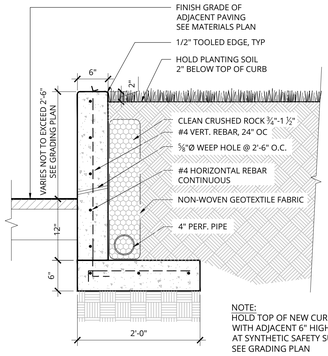
1" = 1'-0"




NOTES:
BLUE PATHWAY FINES AVAILABLE FROM AMERICAN SOIL AND STONE, www.americansoil.com, (510)-292-3000

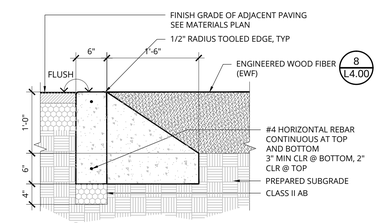
## 4 GRAVEL PAVING

3" = 1'-0"

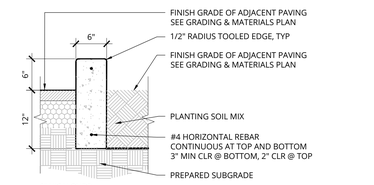



NOTE:
HOLD TOP OF NEW CURB LEVEL WITH ADJACENT 6" HIGH CURB AT SYNTHETIC SAFETY SURFACE, SEE GRADING PLAN

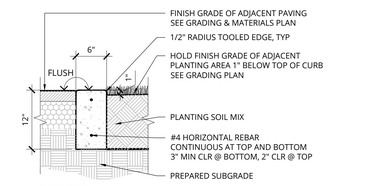
HEIGHTENED CURB



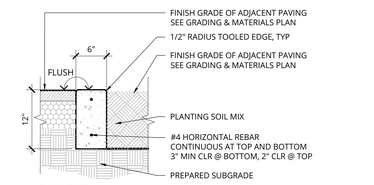

FLUSH CURB
AT ENGINEERED WOOD FIBER (EWF)




6" HIGH CURB




FLUSH CURB
AT PLANTING AREA



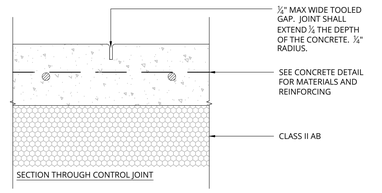

FLUSH CURB

NOTES:

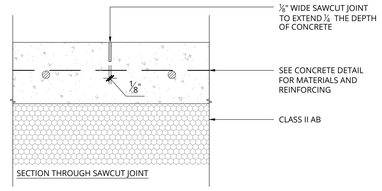
1. PAVEMENT SECTION TO BE APPROVED BY GEOTECHNICAL ENGINEER.

## 3 6" WIDE CONCRETE CURB

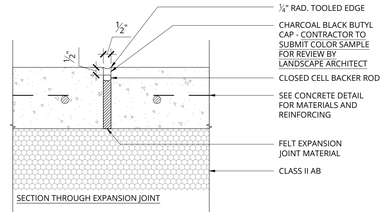
1" = 1'-0"




SECTION THROUGH CONTROL JOINT



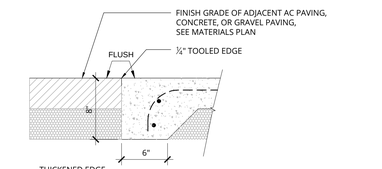

SECTION THROUGH SAWCUT JOINT



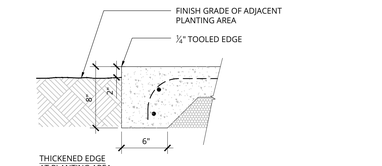

SECTION THROUGH EXPANSION JOINT

## 2 CONCRETE JOINTING

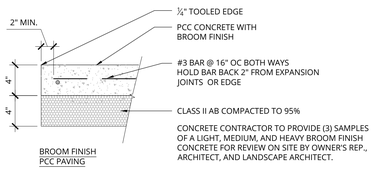
3" = 1'-0"



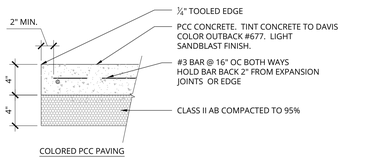

THICKENED EDGE
AT HARDSCAPE



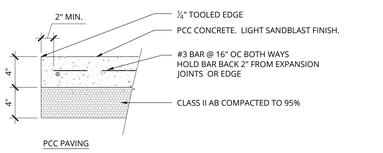

THICKENED EDGE
AT PLANTING AREA




BROOM FINISH
PCC PAVING




COLORED PCC PAVING




PCC PAVING

NOTE:
ALL COLORED CONCRETE REQUIRES A MIN. 24" X 24" MOCKUP OF FINISH FOR APPROVAL BY LANDSCAPE ARCHITECT PRIOR TO INSTALLATION

## 1 CONCRETE PAVING

1 1/2" = 1'-0"

**OWNER:** SRCS VENETIA VALLEY K-8

**PROJECT NAME:** CLASSROOM REPLACEMENT AND NEW MPR BUILDING

**CLIENT ADDRESS:** 177 N San Pedro Rd, San Rafael, CA 94903

# DESIGN DEVELOPMENT SET

**SEAL:**

IDENTIFICATION STAMP
DIVISION OF THE STATE ARCHITECT
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A#

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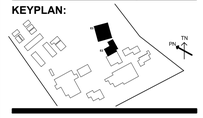
**REVISIONS:**

| | DESCRIPTION | DATE |
|---|---|---|
| 1 | | |
| 2 | | |
| 3 | | |
| 4 | | |
| 5 | | |

**KEYPLAN:**



**DATE ISSUED:** 08/18/2017

**PROJECT NO:** 2017 - 40140

**SCALE:** AS NOTED

**SHEET NUMBER:** L4.00

**SHEET TITLE:**

# CONSTRUCTION DETAILS

BASE LANDSCAPE ARCHITECTURE
2901 MARIPOSA STREET #5,
SAN FRANCISCO, CA, 94110
WWW.BASELANDSCAPE.COM

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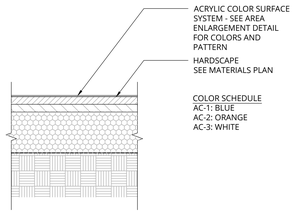
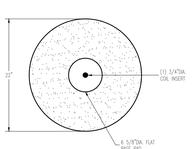



NOTES:

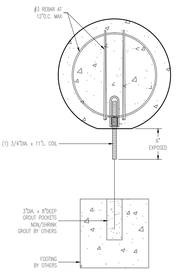
1. PAVEMENT SECTION TO BE APPROVED BY GEOTECHNICAL ENGINEER.
2. SOFT/WET SUBGRADE MAY REQUIRE STABILIZATION DURING SUBGRADE PREPARATION PHASE OF WORK.
3. SEE SPECS FOR MANUFACTURER INFORMATION. FOLLOW ALL INSTALLATION PROCEDURES RECOMMENDED BY THE MANUFACTURER.
4. FOUR-SQUARE, AND TETHERBALL STRIPING TO BE COLOR AC-3 (WHITE).

## 7 ACRYLIC COLOR SURFACE ON HARDSCAPE

1" = 1'-0"




BOTTOM VIEW



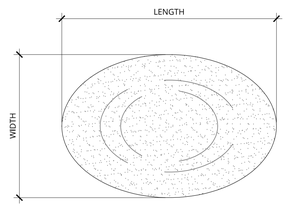

SECTION VIEW ANCHORING DETAIL

NOTES:

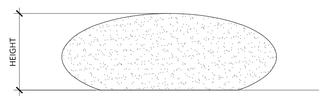
1. 22" SPHERE BOLLARD (QR-22SP) IN FRENCH GRAY COLOR WITH XXXXXXX CONCRETE TEXTURE AND STANDARD SEALER IS AVAILABLE FROM QCP, CONTACT ELISABET BRACAMONTES, ebracamontes@quickcrete.com, (951)-256-3260

## 6 PRECAST CONCRETE BOLLARD - SPHERE

1" = 1'-0"




PLAN




ELEVATION

PEBBLE SCHEDULE

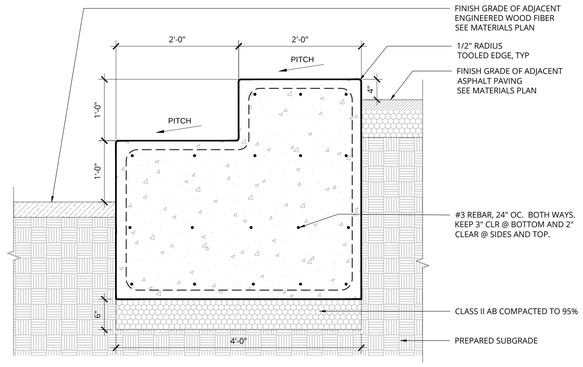
| PLAN CODE | MODEL NUMBER | HEIGHT | WIDTH | LENGTH | COLOR |
|---|---|---|---|---|---|
| A | Q-PEBBLES3-42 | 15" | 28" | 42" | FRENCH GRAY |
| B | Q-PEBBLES3-36 | 14" | 25" | 36" | MISSION WHITE |
| C | Q-PEBBLES3-20 | 14" | 20" | 14" | FRENCH GRAY |

NOTES:

1. PEBBLE LARGE (Q-PEBBLES3-42), PEBBLE MEDIUM (Q-PEBBLES3-36), AND PEBBLE SMALL (Q-PEBBLES3-20) TO HAVE XXXXX CONCRETE TEXTURE AND STANDARD SEALER. SEE PEBBLE SCHEDULE ABOVE FOR CONCRETE COLOR.
2. AVAILABLE FROM QCP, CONTACT ELISABET BRACAMONTES, ebracamontes@quickcrete.com, (951)-256-3260

## 5 PRECAST CONCRETE PEBBLE

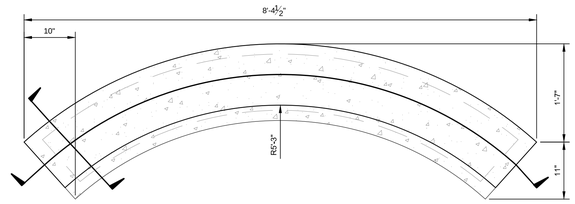
1" = 1'-0"




NOTE:
VERTICAL EXPANSION JOINTS SHALL OCCUR @ 16' OC

## 4 CONCRETE AMPHITHEATER

1" = 1'-0"



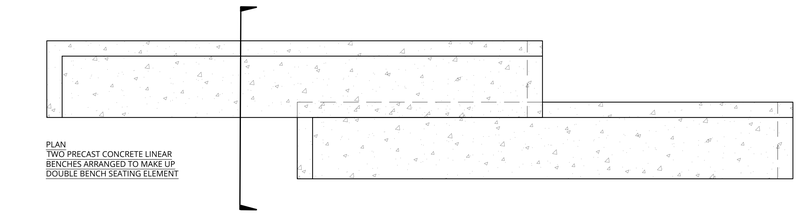

PLAN

SECTION

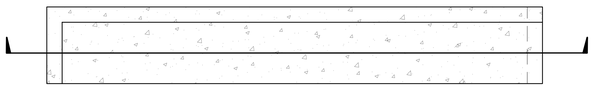
NOTES:
PRECAST CONCRETE BENCH - LINEAR IS A CUSTOM ORDER PRECAST CONCRETE ELEMENT, AVAILABLE FROM QCP, CONTACT ELISABET BRACAMONTES, ebracamontes@quickcrete.com, (951)-256-3260

## 3 PRECAST CONCRETE BENCH - CIRCULAR

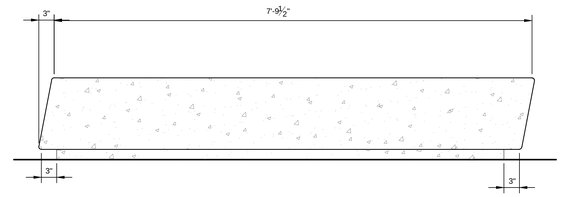
1" = 1'-0"



PLAN
TWO PRECAST CONCRETE LINEAR BENCHES ARRANGED TO MAKE UP DOUBLE BENCH SEATING ELEMENT



PLAN

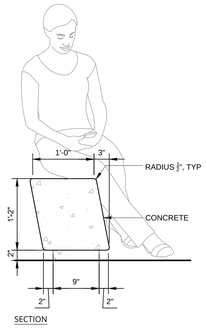



SECTION

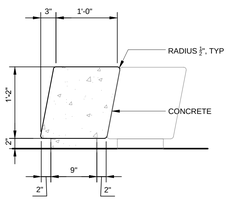
NOTES:
PRECAST CONCRETE BENCH - LINEAR IS A CUSTOM ORDER PRECAST CONCRETE ELEMENT, AVAILABLE FROM QCP, CONTACT ELISABET BRACAMONTES, ebracamontes@quickcrete.com, (951)-256-3260

## 2 PRECAST CONCRETE BENCH - LINEAR

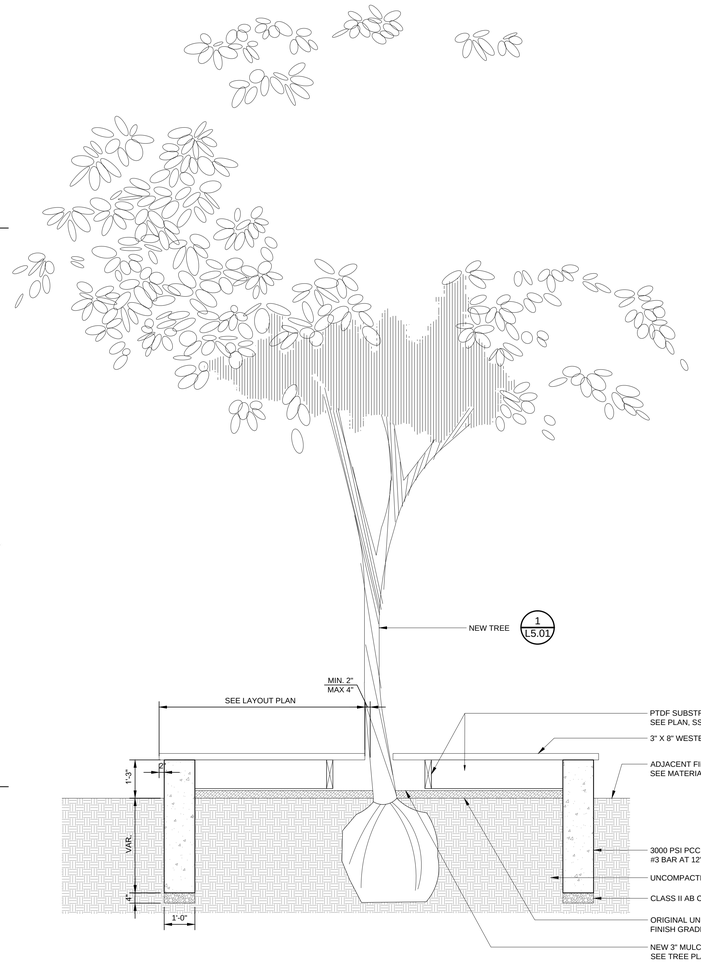
1" = 1'-0"




SECTION

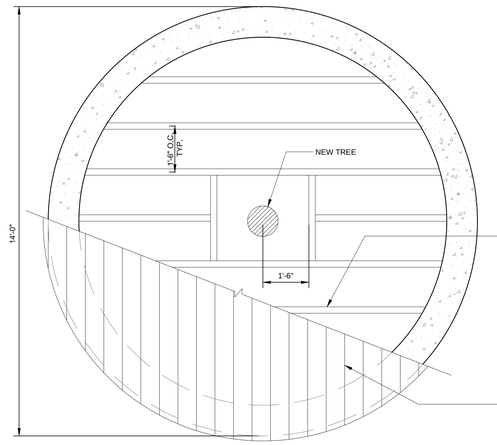



SECTION




## 1 CIRCULAR WOOD PLATFORM BENCH

1/2" = 1'-0" P-VEN-SEA-PREC-08




**OWNER:** SRCS VENETIA VALLEY K-8

**PROJECT NAME:** CLASSROOM REPLACEMENT AND NEW MPR BUILDING

**CLIENT ADDRESS:** 177 N San Pedro Rd, San Rafael, CA 94903

**DESIGN DEVELOPMENT SET**

**SEAL:**

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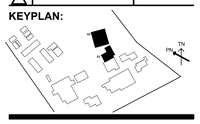
**KEYPLAN:**




**DATE ISSUED:** 08/18/2017

**PROJECT NO:** 2017 - 40140

**SCALE:** 1" = 20'-0"

**SHEET NUMBER:** L4.01

**SHEET TITLE:**

# CONSTRUCTION DETAILS

BASE LANDSCAPE ARCHITECTURE
2961 MARIPOSA STREET #5,
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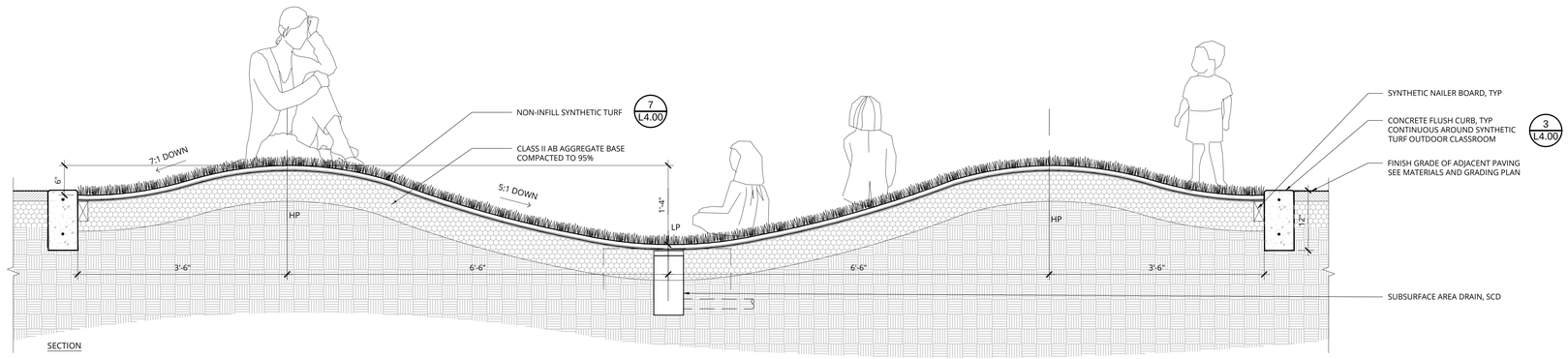
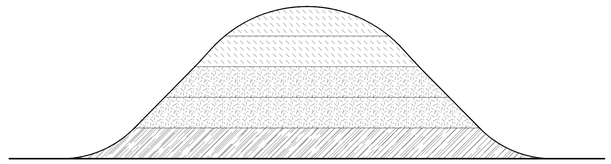
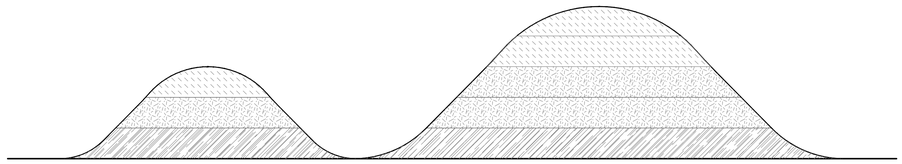



1 SYNTHETIC TURF OUTDOOR CLASSROOM

1" = 1'-0"



ELEVATION A



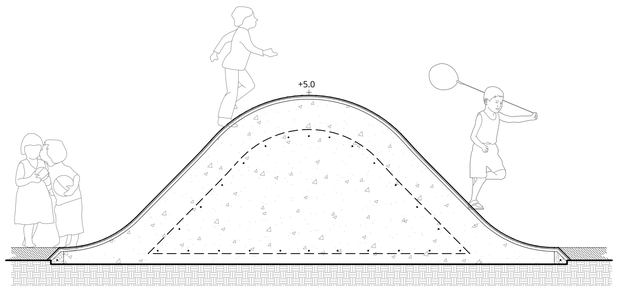
ELEVATION B

COLOR SCHEDULE

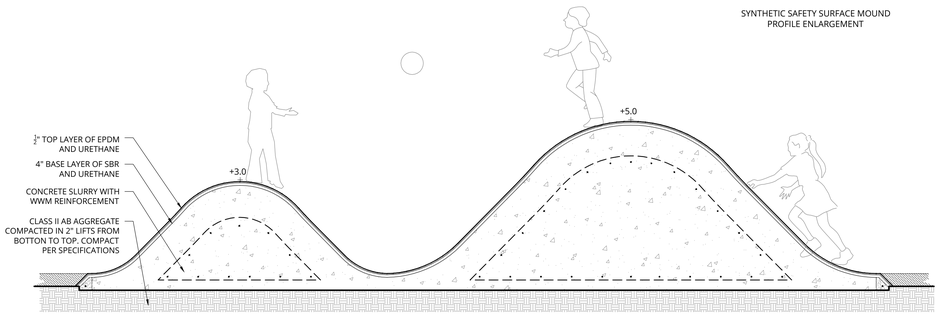
COLOR A
33% DARK BLUE
33% LT BLUE
33% PURPLE

COLOR B
40% DARK BLUE
40% LT BLUE
20% MID GREY

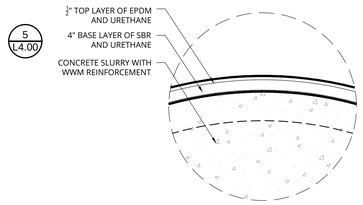
COLOR C
50% LT BLUE
50% BEIGE




SECTION A




SECTION B




SYNTHETIC SAFETY SURFACE MOUND
PROFILE ENLARGEMENT

2 PLAY MOUNDS - SYNTHETIC SAFETY SURFACE

1/2" = 1'-0"

**OWNER:** SRCS VENETIA VALLEY K-8

**PROJECT NAME:** CLASSROOM REPLACEMENT AND NEW MPR BUILDING

**CLIENT ADDRESS:** 177 N San Pedro Rd, San Rafael, CA 94903

**DESIGN DEVELOPMENT SET**

**SEAL:**

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DATE _____

**REVISIONS:**

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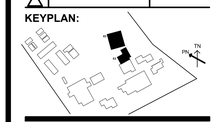
**KEYPLAN:**




**DATE ISSUED:** 08/18/2017

**PROJECT NO:** 2017 - 40140

**SCALE:** 1" = 20'-0"

**SHEET NUMBER:** L4.02

**SHEET TITLE:**

# CONSTRUCTION DETAILS

BASE LANDSCAPE ARCHITECTURE
2901 MARIPOSA STREET #5,
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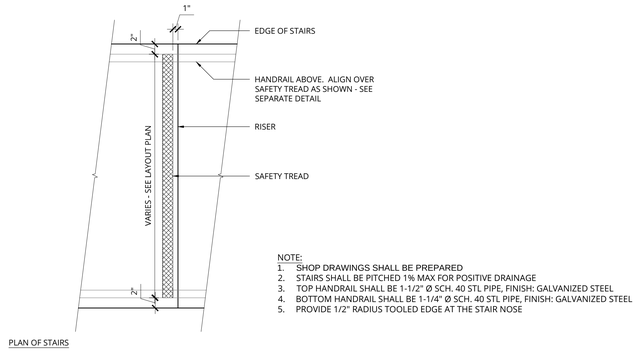
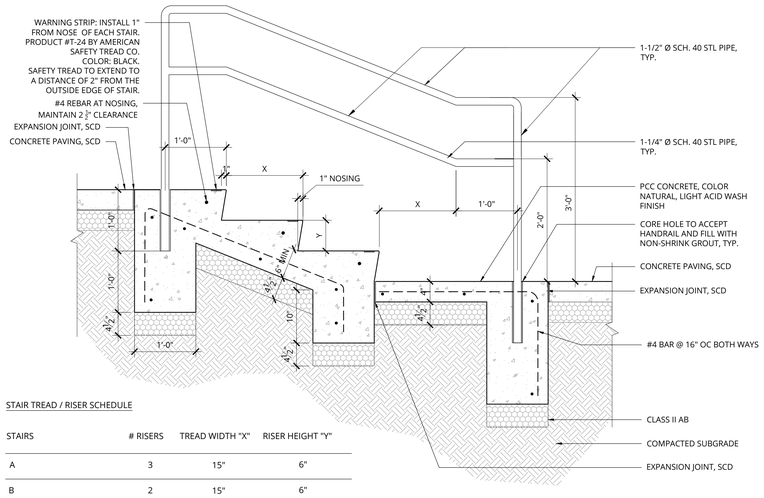



PLAN OF STAIRS

NOTE:
1. SHOP DRAWINGS SHALL BE PREPARED
2. STAIRS SHALL BE PITCHED 1% MAX FOR POSITIVE DRAINAGE
3. TOP HANDRAIL SHALL BE 1-1/2" Ø SCH. 40 STL PIPE, FINISH: GALVANIZED STEEL
4. BOTTOM HANDRAIL SHALL BE 1-1/4" Ø SCH. 40 STL PIPE, FINISH: GALVANIZED STEEL
5. PROVIDE 1/2" RADIUS TOOLED EDGE AT THE STAIR NOSE

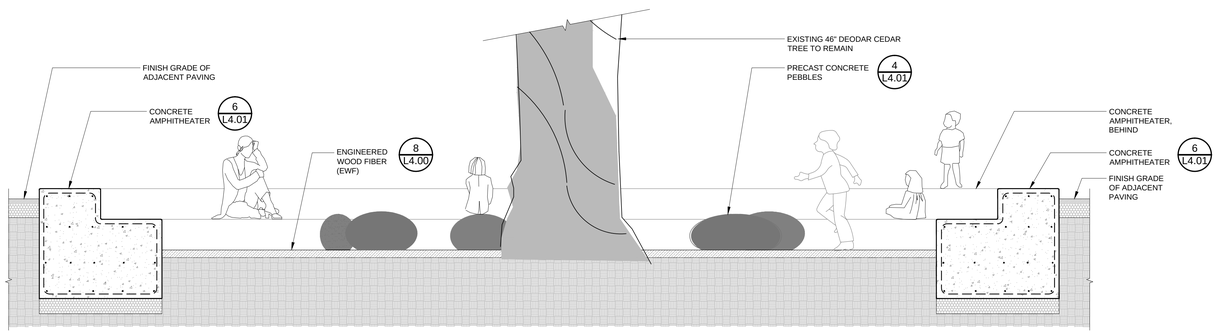



STAIR TREAD / RISER SCHEDULE

| STAIRS | # RISERS | TREAD WIDTH "X" | RISER HEIGHT "Y" |
|---|---|---|---|
| A | 3 | 15" | 6" |
| B | 2 | 15" | 6" |
| C | 1 | 15" | 6" |
| D | 3 | 15" | 6" |
| E | 4 | 15" | 6" |
| F | 10 | 15" | 6" |
| G | 6 | 15" | 6" |

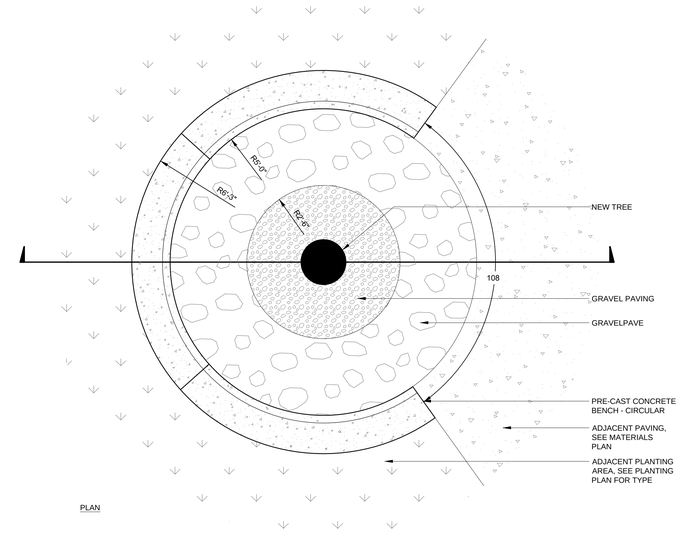
## 3 CONCRETE STEPS AND HANDRAIL

1" = 1'-0"

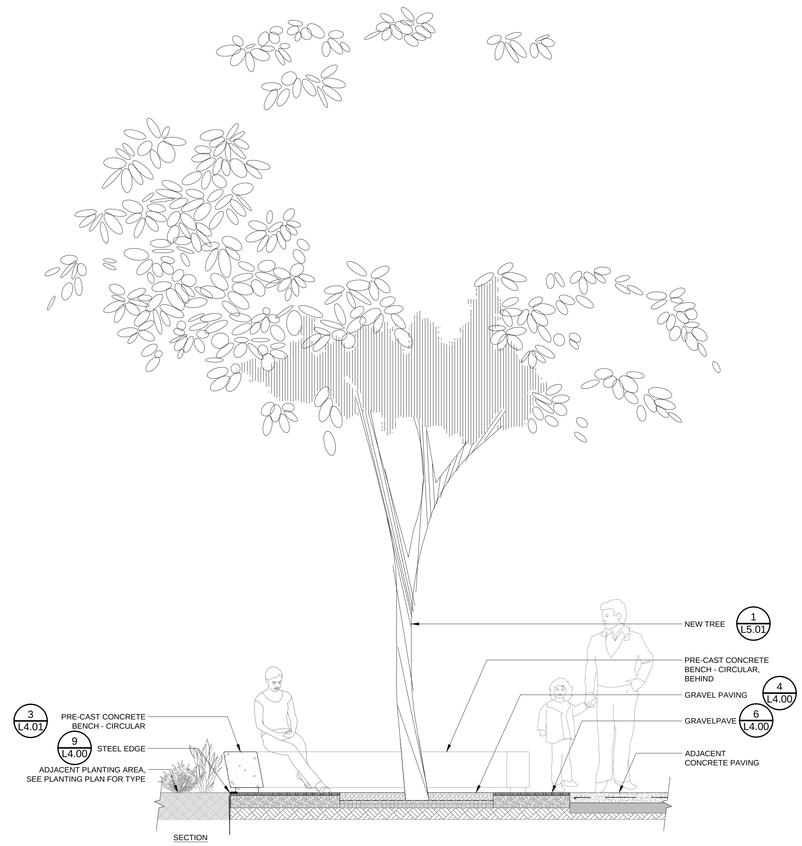



## 2 AMPHITHEATER SECTION

1/2" = 1'-0"




PLAN




SECTION

## 1 CIRCULAR SEATING AREA

1/2" = 1'-0"

**OWNER:** SRCS VENETIA VALLEY K-8

**PROJECT NAME:** CLASSROOM REPLACEMENT AND NEW MPR BUILDING

**CLIENT ADDRESS:** 177 N San Pedro Rd, San Rafael, CA 94903

# DESIGN DEVELOPMENT SET

**SEAL:**

IDENTIFICATION STAMP
DIVISION OF THE STATE ARCHITECT
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DATE _____

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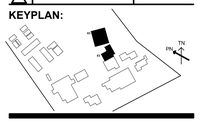
**KEYPLAN:**




**DATE ISSUED:** 08/18/2017

**PROJECT NO:** 2017 - 40140

**SCALE:** AS NOTED

**SHEET NUMBER:** L4.03

**SHEET TITLE:**

# CONSTRUCTION DETAILS

BASE LANDSCAPE ARCHITECTURE
2901 MARIPOSA STREET #5,
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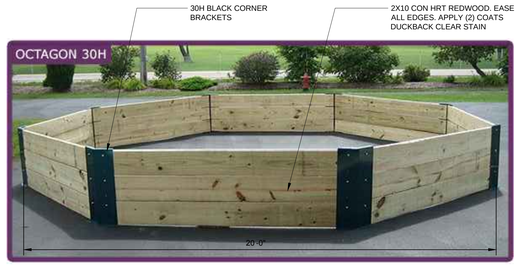
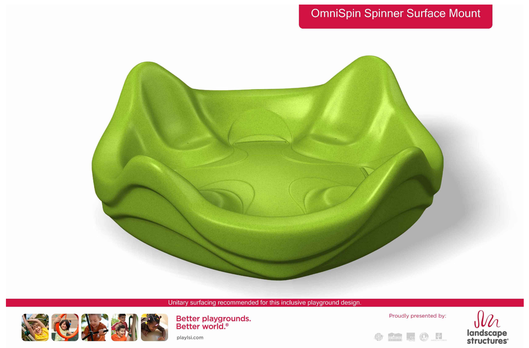



NOTE:
1. OCTAGON 30H AVAILABLE THROUGH COACH CLIFF'S GAGA BALL PITS, www.gagaballpits.com, 877-266-8426
2. ASSEMBLE PER MANUFACTURER'S INSTRUCTIONS.

## 8 GAGA BALL PIT

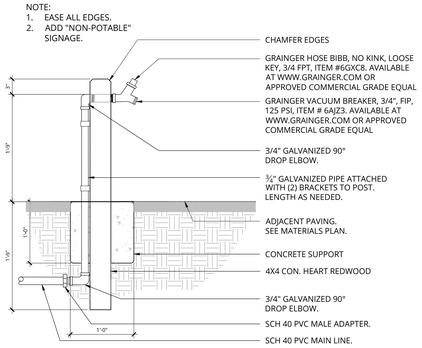
1" = 1'-0"




OMNISPIN SPINNER IS AVAILABLE THROUGH ROSS RECREATION EQUIPMENT.
CONTACT ALEX HAILEY, alexh@rossrec.com, 707-538-3800.

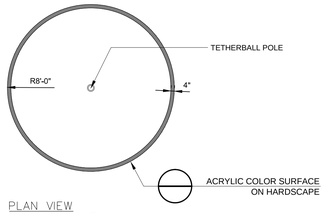
## 7 OMNI SPINNER

1" = 1'-0"



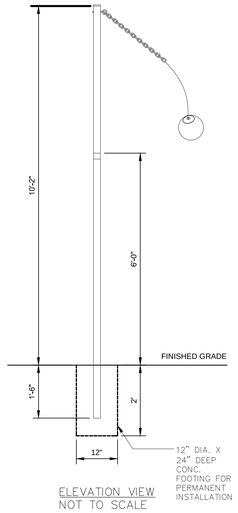

## 6 LOCKING HOSE BIBB

1" = 1'-0"




PLAN VIEW
NOT TO SCALE

L.A STEELCRAFT
P.O BOX 90365
PASADENA, CA 91109
PHONE: (626) 798-7401
FAX: (626) 798-1482
www.lasteelcraft.com

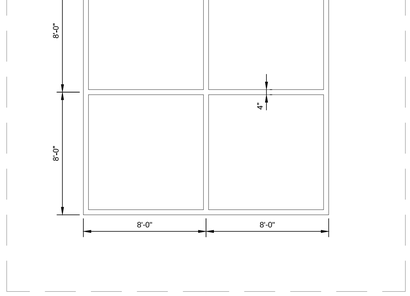



ELEVATION VIEW
NOT TO SCALE

NOTE:
1. TETHERBALL ASSEMBLY (TBPCB) AVAILABLE FROM ROSS RECREATION, CONTACT ALEX HAILEY, alexh@rossrec.com, 707-538-3800
2. INSTALL PER MANUFACTURER'S INSTRUCTION AND SPECIFICATIONS

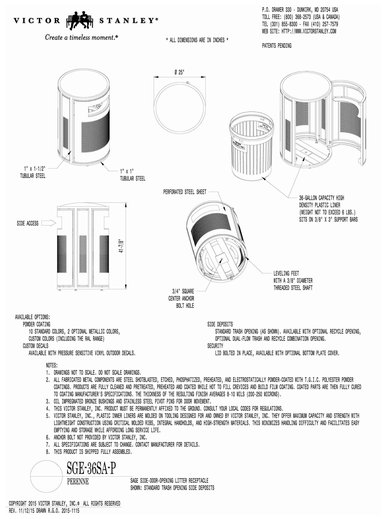
## 5 TETHERBALL

NTS

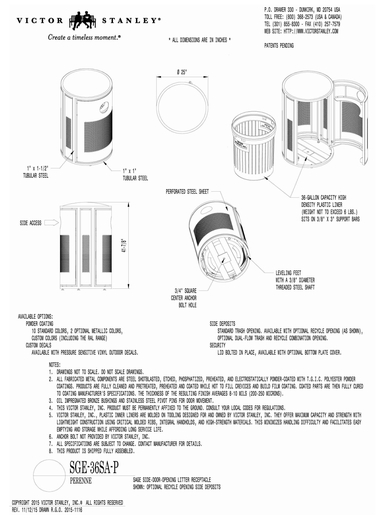



## 4 FOUR SQUARE COURT

1/4" = 1'-0"



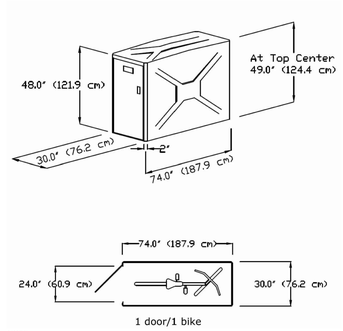

TRASH RECEPTACLE:
MANUFACTURER: VICTOR STANLEY, WWW.VICTORSTANLEY.COM
MODEL: PERENNE COLLECTION, MODEL SAGE, 36 GAL, TRASH DEPOSIT
FINISHES: BLACK POWDER COAT
INSTALL PER MANUFACTURER'S INSTRUCTIONS.




RECYCLING RECEPTACLE:
MANUFACTURER: VICTOR STANLEY, WWW.VICTORSTANLEY.COM
MODEL: PERENNE COLLECTION, MODEL SAGE, 36 GAL, RECYCLE DEPOSIT
FINISHES: BLACK POWDER COAT
INSTALL PER MANUFACTURER'S INSTRUCTIONS.

## 3 TRASH AND RECYCLING RECEPTACLES

NTS




NOTE:
MANUFACTURER: AMERICAN BICYCLE SECURITY COMPANY, WWW.AMERIBIKE.COM, (800)-245-3723
MODEL: BIKE-SHELL MODEL 301 WITH PADLOCK/U-LOCK HANDLE
FINISH: MEDIUM GREY
INSTALL PER MANUFACTURER'S SPECIFICATIONS

## 2 BIKE LOCKER

NTS

NOTE:
MANUFACTURER: AMERICAN BICYCLE SECURITY COMPANY, WWW.AMERIBIKE.COM, (800)-245-3723
MODEL: DOWNTOWN RACK
FINISH: GALVANIZED
INSTALL PER MANUFACTURER'S SPECIFICATIONS

## 1 BIKE RACK

NTS

**OWNER:** SRCS VENETIA VALLEY K-8

**PROJECT NAME:** CLASSROOM REPLACEMENT AND NEW MPR BUILDING

**CLIENT ADDRESS:** 177 N San Pedro Rd, San Rafael, CA 94903

**DESIGN DEVELOPMENT SET**

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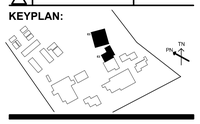
**KEYPLAN:**



**DATE ISSUED:** 08/18/2017
**PROJECT NO:** 2017 - 40140
**SCALE:** AS NOTED

**SHEET NUMBER:** L4.04

**SHEET TITLE:**

# CONSTRUCTION DETAILS

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2901 MARIPOSA STREET #5,
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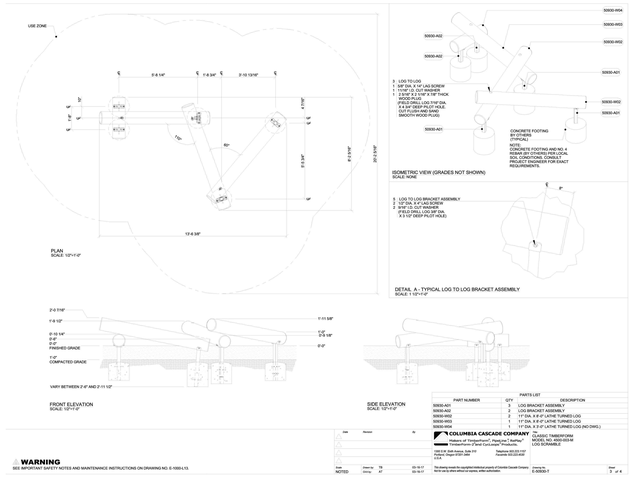
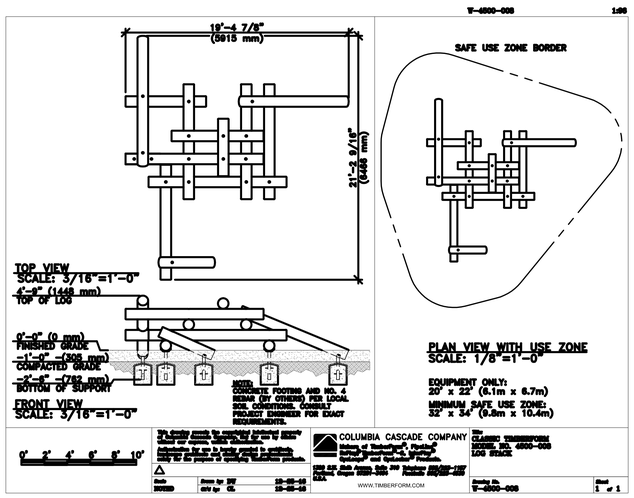


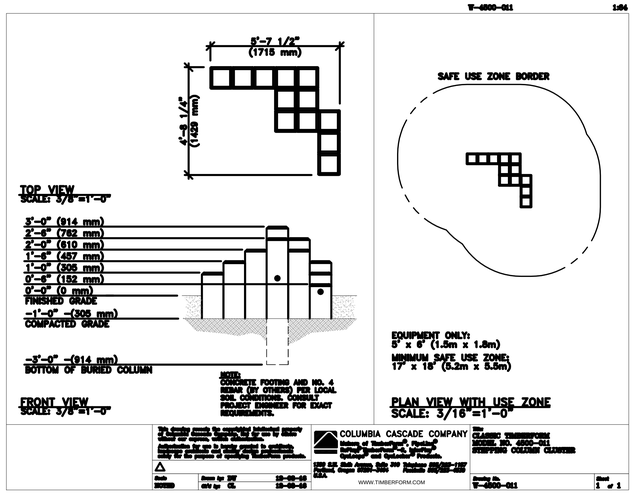

5 TIMBERFORM LOG SCRAMBLE - SMALL

NTS



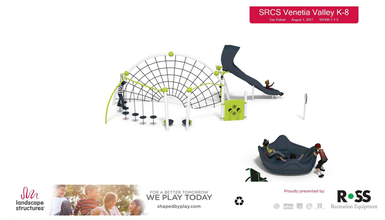

4 TIMBERFORM LOG STACK

AS NOTED

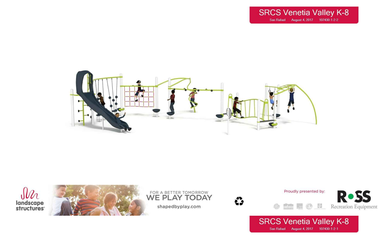



3 TIMBERFORM STEPPING COLUMN CLUSTER

AS NOTED




EVOS KINDER PLAY STRUCTURE

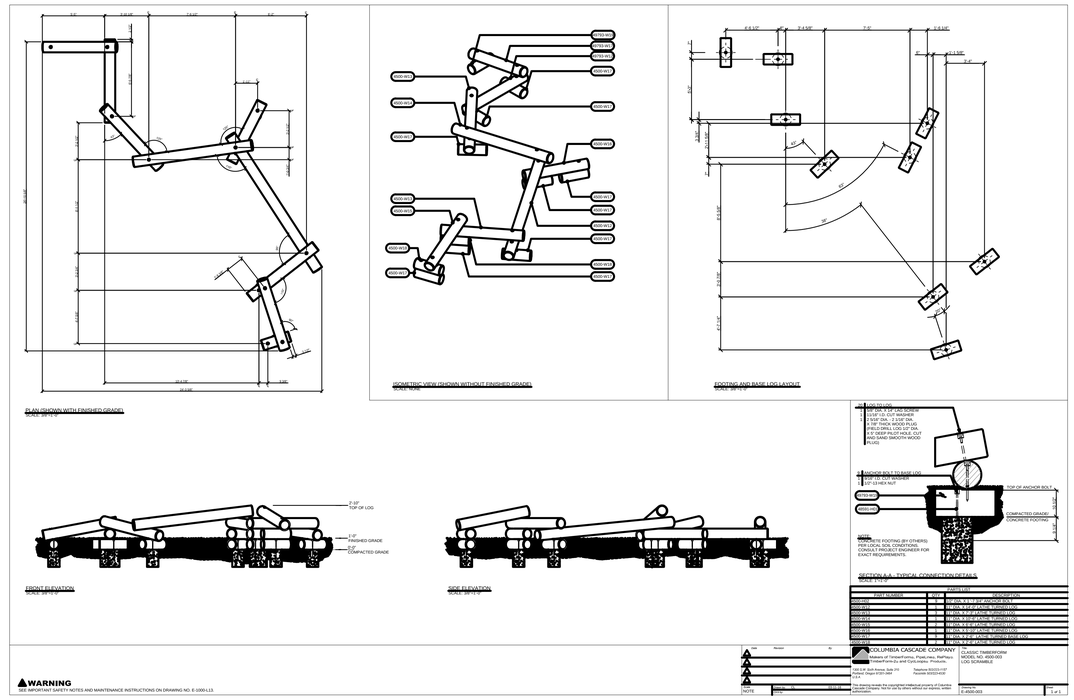



PLAYBOOSTER PLAY STRUCTURE

NOTE:
1. PLAY EQUIPMENT TO BE LANDSCAPE STRUCTURES CUSTOM EVOS AND PLAYBOOSTER STRUCTURES, AVAILABLE THROUGH ROSS RECREATION EQUIPMENT. CONTACT ALEX HAILEY, alexh@rossrec.com, 707-538-3800
2. DETAILS NOT REVIEWED / APPROVED BY DSA.
3. PLEASE VERIFY ALL DIMENSIONS OF PLAY AREA, SIZE, ORIENTATION AND LOCATIONS OF ALL EXISTING UTILITIES, EQUIPMENT, AND SITE FURNISHINGS PRIOR TO ORDERING.
4. SLIDES SHOULD NOT FACE THE HOT AFTERNOON SUN.

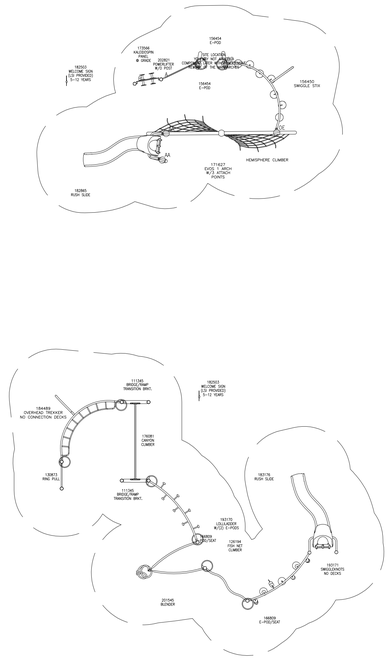
2 PLAY EQUIPMENT

1/8" = 1'-0" P-VEN-MAN-PLAY-01




1 TIMBERFORM LOG SCRAMBLE - LARGE

NTS













**OWNER:** SRCS VENETIA VALLEY K-8

**PROJECT NAME:** CLASSROOM REPLACEMENT AND NEW MPR BUILDING

**CLIENT ADDRESS:** 177 N San Pedro Rd, San Rafael, CA 94903

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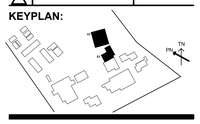
**KEYPLAN:**




**DATE ISSUED:** 08/18/2017

**PROJECT NO:** 2017 - 40140

**SCALE:** AS NOTED

**SHEET NUMBER:** L4.0

**SHEET TITLE:**

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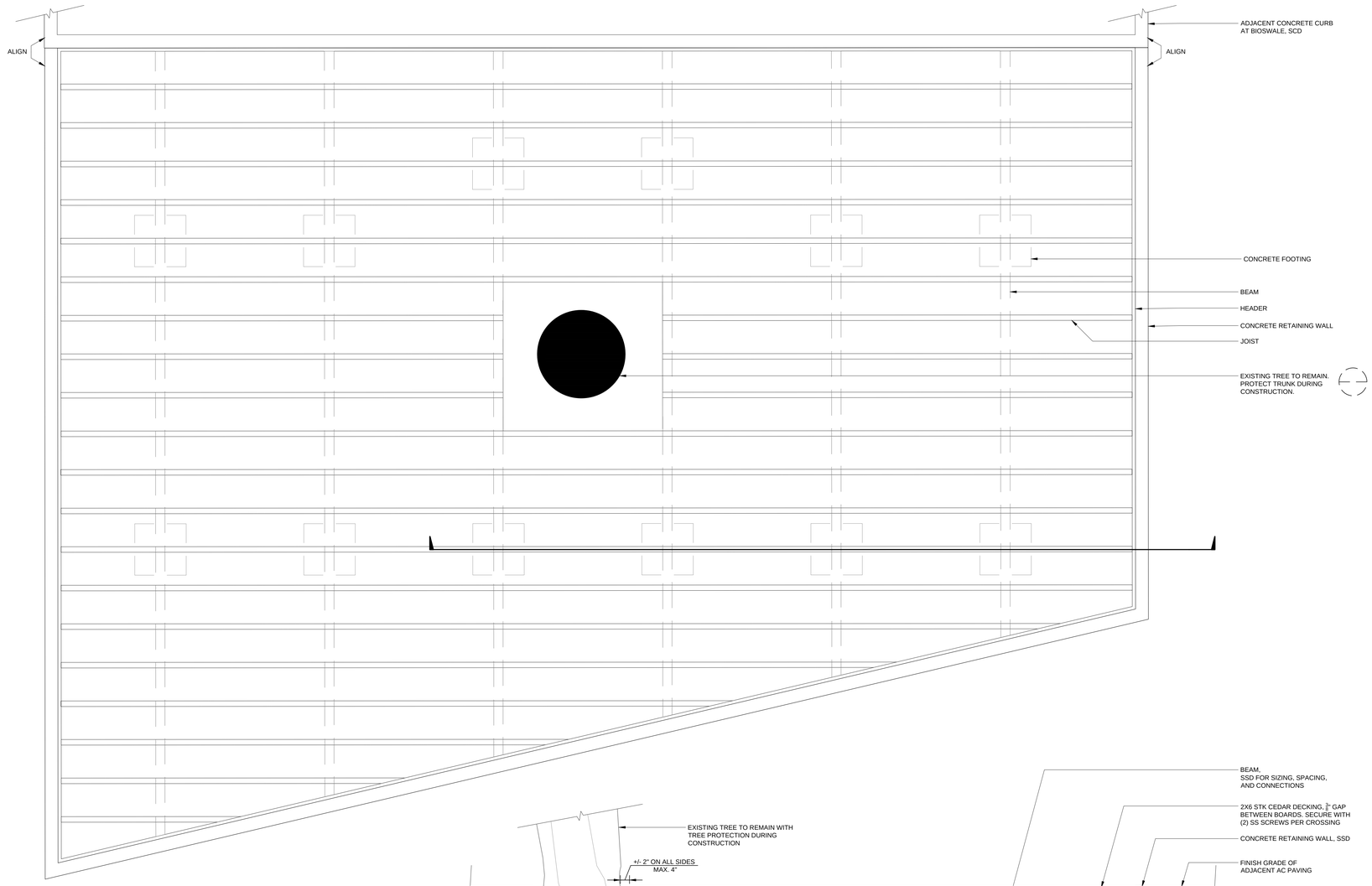
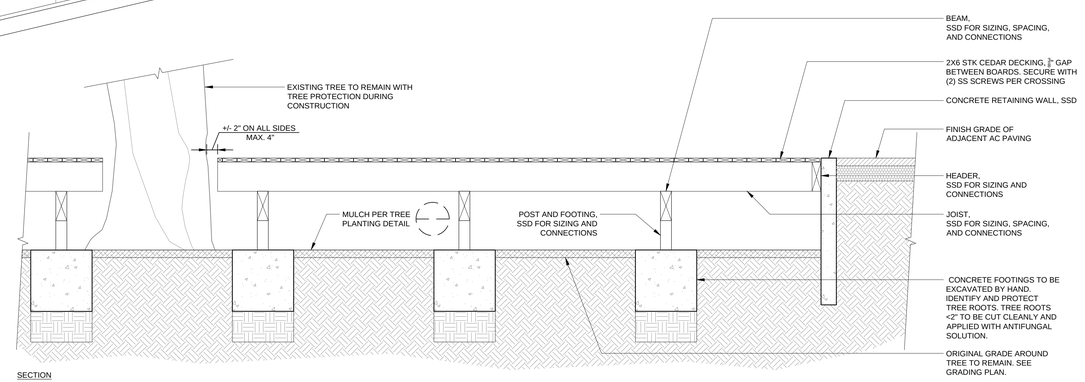



PLAN

NOTES:
1. DECKING NOT SHOWN FOR CLARITY.
2. LAYOUT OF SUBSTRUCTURE IS CONCEPTUAL ONLY AND IS ONLY INTENDED FOR PRELIMINARY COSTING. SEE STRUCTURAL DRAWINGS.




SECTION

1 DECKING
1/2" = 1'-0"

**OWNER:** SRCS VENETIA VALLEY K-8

**PROJECT NAME:** CLASSROOM REPLACEMENT AND NEW MPR BUILDING

**CLIENT ADDRESS:** 177 N San Pedro Rd, San Rafael, CA 94903

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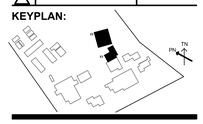
**KEYPLAN:**



**DATE ISSUED:** 08/18/2017

**PROJECT NO:** 2017 - 40140

**SCALE:** AS NOTED

**SHEET NUMBER:** L4.0

**SHEET TITLE:**

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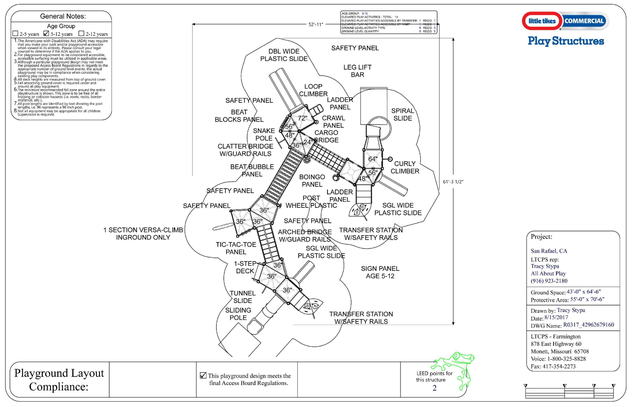
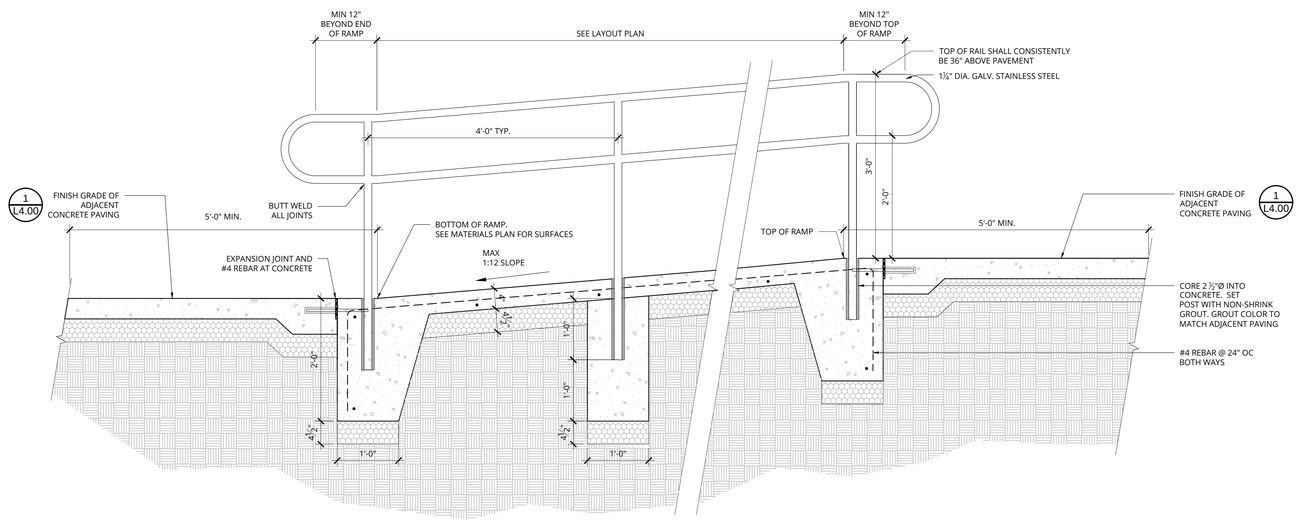
NOTE:
1. EXISTING PLAY STRUCTURE POSTS TO REMAIN. ALL OTHER MATERIAL TO BE REPLACED.
2. CONTACT TRACY STYPA AT ALL ABOUT PLAY FOR A LIST OF REPLACEMENT PARTS.




## 2 EXISTING PLAY STRUCTURE WITH REPLACEMENT ITEMS

NTS

NOTES
1. SHOP DRAWINGS SHALL BE PREPARED BASED ON FIELD MEASUREMENTS OF INSTALLED HARDSCAPE




## 1 ENTRY RAMP AND HANDRAIL

1" = 1'-0"

**OWNER:** SRCS VENETIA VALLEY K-8

**PROJECT NAME:** CLASSROOM REPLACEMENT AND NEW MPR BUILDING

**CLIENT ADDRESS:** 177 N San Pedro Rd, San Rafael, CA 94903

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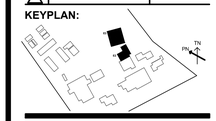
**KEYPLAN:**



**DATE ISSUED:** 08/18/2017

**PROJECT NO:** 2017 - 40140

**SCALE:** AS NOTED

**SHEET NUMBER:** L4.07

**SHEET TITLE:**

# CONSTRUCTION DETAILS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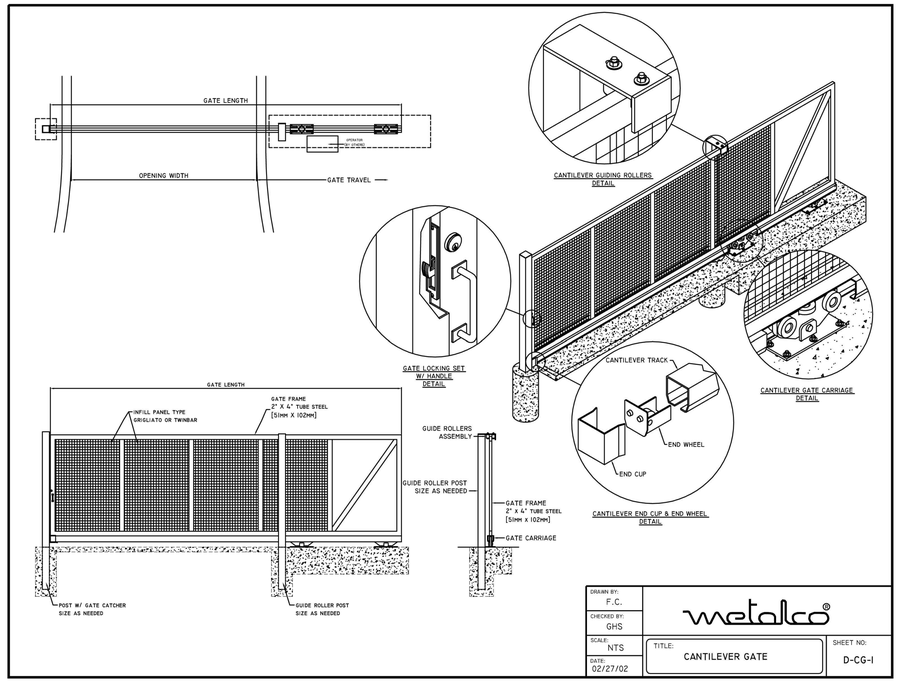
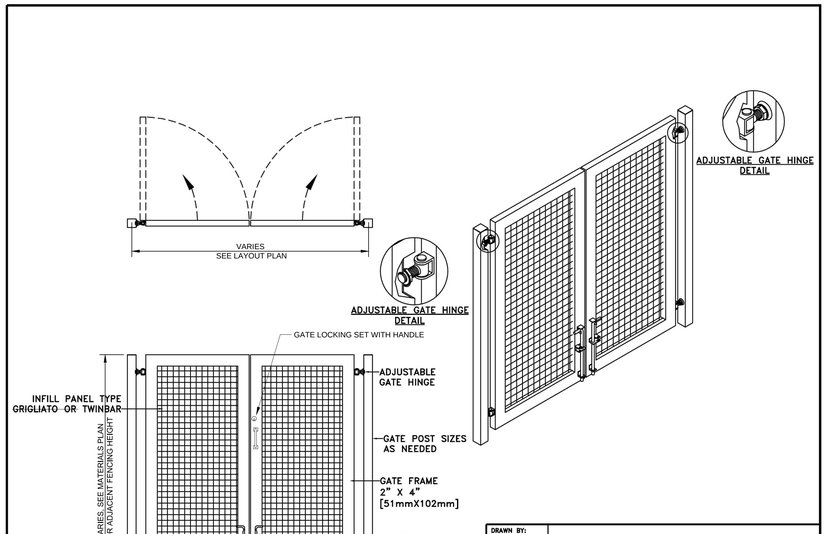
NOTE:
1. AVAILABLE FROM METALCO. CONTACT GARY MURAKAMI, (630) 971-6980, 202@metalco.us
2. INSTALL PER MANUFACTURER'S INSTRUCTIONS.




## 4 GATE - CANTILEVER SLIDE (MFR DETAIL)

NTS

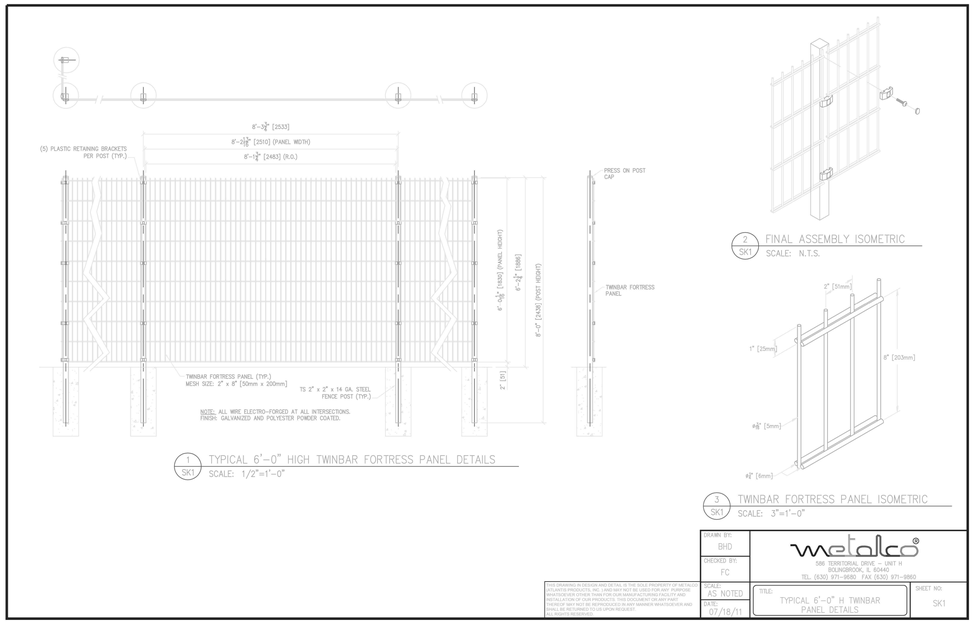
NOTE:
1. AVAILABLE FROM METALCO. CONTACT GARY MURAKAMI, (630) 971-6980, 202@metalco.us
2. INSTALL PER MANUFACTURER'S INSTRUCTIONS.
3. ADD SELF CLOSING HINGES.
4. PROVIDE METAL SLEEVE IN PAVING TO ACCEPT CANEBOLT IN BOTH OPEN AND SHUT POSITIONS.




## 2 GATE - DOUBLE SWING TWIN BAR (MFR DETAIL)

NTS

NOTE:
1. AVAILABLE FROM METALCO. CONTACT GARY MURAKAMI, (630) 971-6980, 202@metalco.us
2. INSTALL PER MANUFACTURER'S INSTRUCTIONS.




1 SK1 TYPICAL 6'-0" HIGH TWINBAR FORTRESS PANEL DETAILS
SCALE: 1/2"=1'-0"

2 SK1 FINAL ASSEMBLY ISOMETRIC
SCALE: N.T.S.

3 SK1 TWINBAR FORTRESS PANEL ISOMETRIC
SCALE: 3"=1'-0"

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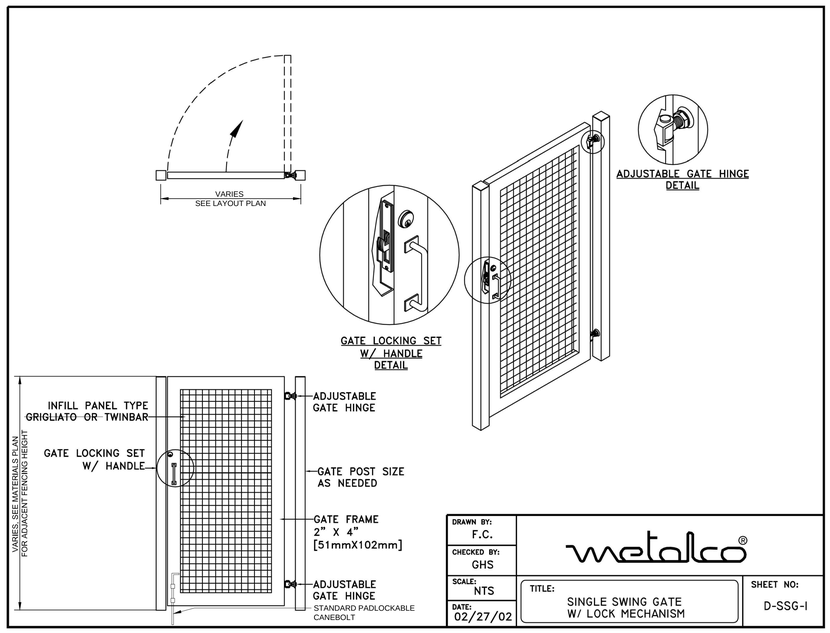
## 3 FENCE - 6` TWIN BAR (MFR DETAIL)

NTS

NOTE:
1. AVAILABLE FROM METALCO. CONTACT GARY MURAKAMI, (630) 971-6980, 202@metalco.us
2. INSTALL PER MANUFACTURER'S INSTRUCTIONS.
3. ADD SELF CLOSING HINGES.
4. PROVIDE METAL SLEEVE IN PAVING TO ACCEPT CANEBOLT IN BOTH OPEN AND SHUT POSITIONS.




## 1 GATE - SINGLE SWING TWIN BAR (MFR DETAIL)

1/2" = 1'-0"

**OWNER:** SRCS VENETIA VALLEY K-8

**PROJECT NAME:** CLASSROOM REPLACEMENT AND NEW MPR BUILDING

**CLIENT ADDRESS:** 177 N San Pedro Rd, San Rafael, CA 94903

# DESIGN DEVELOPMENT SET

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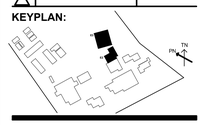
**KEYPLAN:**



**DATE ISSUED:** 08/18/2017
**PROJECT NO:** 2017 - 40140
**SCALE:** AS NOTED

**SHEET NUMBER:** L4.08

**SHEET TITLE:** CONSTRUCTION DETAILS

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## PLANT SCHEDULE

| TREES | QTY | BOTANICAL NAME / COMMON NAME | CONT |
|---|---|---|---|
| ARB MAR | 4 | ARBUTUS X `MARINA` / ARBUTUS STANDARD | 24" BOX |
| PIN CAN | 6 | PINUS CANARIENSIS / CANARY ISLAND PINE | 24" BOX |
| PLA ACE | 3 | PLATANUS X ACERIFOLIA `COLUMBIA` / LONDON PLANE TREE | 24" BOX |
| QUE LOB | 1 | QUERCUS LOBATA / VALLEY OAK | 24" BOX |
| QUE PHE | 3 | QUERCUS PHELLOS `HIGHTOWER` / WILLOW OAK | 24" BOX |
| QUE SUB | 5 | QUERCUS SUBER / CORK OAK | 24" BOX |
| TRI LAU | 7 | TRISTANIOPSIS LAURINA / WATER GUM MULTI-TRUNK | 24" BOX |
| CHI TAS | 2 | X CHITALPA TASHKENTENSIS / CHITALPA | 15GAL |

| SHRUBS | QTY | BOTANICAL NAME / COMMON NAME | CONT |
|---|---|---|---|
| AXG | 17 | ACHILLEA PTARMICA 'GYPSY WHITE' / GYPSY WHITE YARROW | 1 GAL |
| AX | 9 | ACHILLEA X KELLERERI / YARROW | 1 GAL |
| AH | 12 | AEONIUM HAWORTHII / PINWHEEL | 1GAL |
| AB | 33 | AGAVE BRACTEOSA `CALAMAR` / CANDELABRUM AGAVE | 1 GAL |
| AX3 | 170 | ANIGOZANTHOS X `YELLOW GEM` / YELLOW GEM KANGAROO PAW | 1 GAL |
| AX5 | 15 | ARCTOSTAPHYLOS X `PACIFIC MIST` / PACIFIC MIST MANZANITA | 5 GAL |
| AT | 16 | ASCLEPIAS TUBEROSA / BUTTERFLY MILKWEED | 1GAL |
| AC | 61 | ASTELIA CHATHAMICA `SILVER SPEAR` / SILVER SPEAR | 1GAL |
| CP | 82 | CAREX TESTACEA `PRAIRIE FIRE` / PRAIRIE FIRE SEDGE | 1GAL |
| CC | 4 | CARPENTERIA CALIFORNICA `ELIZABETH` / BUSH ANEMONE | 5GAL |
| CX | 2 | CEANOTHUS X `BLUE SAPPHIRE` / BLUE SAPPHIRE CEANOTHUS | 5GAL |
| CX2 | 8 | CEANOTHUS X `CENTENNIAL` / CENTENNIAL CEANOTHUS | 1 GAL |
| CD3 | 16 | CHOISYA DEWITTEANA `AZTEC PEARL` / MEXICAN ORANGE | 5 GAL |
| DH | 21 | DIETES X `ORANGE DROP` / ORANGE DROP FORTNIGHT LILY | 1GAL |
| GL | 11 | GAURA LINDHEIMERI / WHITE GAURA | 1 GAL |
| HM | 14 | HEUCHERA MAXIMA / ISLAND ALUM ROOT | 1 GAL |
| LM | 4 | LAURUS NOBILIS `MONEM` TM / EMERALD WAVE SWEET BAY | 10GAL |
| LX | 14 | LAVANDULA X INTERMEDIA `GROSSO` / GROSSO LAVENDIN | 1 GAL |
| ME | 29 | MAHONIA EURYBRACTEATA `SOFT CARESS` / MAHONIA SOFT CARESS | 5GAL |
| MF | 4 | MAHONIA FORTUNEI / CHINESE MAHONIA | 5GAL |
| MS | 49 | MICROSORUM SCOLOPENDRUM / KANGAROO FERN | 1GAL |
| PA2 | 15 | PEROVSKIA ATRIPLICIFOLIA / RUSSIAN SAGE | 1 GAL |
| PC | 15 | PHORMIUM COOKIANUM `TRICOLOR` / VARIEGATED MOUNTAIN FLAX | 5GAL |
| PM | 5 | PODOCARPUS MACROPHYLLUS MAKI / SHRUBBY YEW | 10GAL |
| PP | 18 | PODOCARPUS NIVALIS `PINK TIP` / ALPINE TOTARA | 1GAL |
| PM2 | 73 | POLYSTICHUM MUNITUM / WESTERN SWORD FERN | 1 GAL |
| RA | 3 | RHAMNUS ALATERNUS 'AREGENTEOVARIEGATUS' / BUCKTHORN | 1 GAL |
| SP | 8 | SALVIA X `POZO BLUE` / POZO BLUE SAGE | 2GAL |
| WL | 43 | WESTRINGIA FRUTICOSA `LOW HORIZON` / GROUNDCOVER COAST ROSEMARY | 1GAL |

| BULBS | QTY | BOTANICAL NAME / COMMON NAME | CONT |
|---|---|---|---|
| AS | 70 | ALLIUM SPHAEROCEPHALUM / DRUMSTICK ALLIUM | BULB |
| CC | 19 | CALOCHORTUS 'CUPIDO' / MARIPOSA LILY | BULB |
| CQ | 45 | CAMASSIA QUAMASH / SMALL CAMAS | BULB |
| NX2 | 50 | NARCISSUS X `SINOPEL` / SINOPEL DAFFODIL | BULB |

| GROUND COVERS | QTY | BOTANICAL NAME / COMMON NAME | CONT | SPACING |
|---|---|---|---|---|
| CAR DIV | 12 | CAREX DIVULSA / BERKELEY SEDGE | 1GAL | 48" o.c. |
| JUN ELK | 423 | JUNCUS PATENS `ELK BLUE` / SPREADING RUSH | 1GAL | 36" o.c. |
| LEY CAN | 106 | LEYMUS CONDENSATUS `CANYON PRINCE` / NATIVE BLUE RYE | 1GAL | 54" o.c. |
| MUH CAP | 61 | MUHLENBERGIA CAPILLARIS / PINK MUHLY | 1GAL | 42" o.c. |
| MUH RIG | 127 | MUHLENBERGIA RIGENS / DEER GRASS | 1GAL | 60" o.c. |

0 20 40 60 80 feet

1" = 20'

NORTH

**OWNER:** SRCS VENETIA VALLEY K-8

**PROJECT NAME:** CLASSROOM REPLACEMENT AND NEW MPR BUILDING

**CLIENT ADDRESS:** 177 N San Pedro Rd, San Rafael, CA 94903

# DESIGN DEVELOPMENT SET

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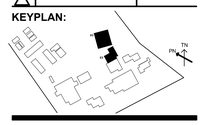
**KEYPLAN:**




**DATE ISSUED:** 08/18/2017

**PROJECT NO:** 2017 - 40140

**SCALE:** 1" = 20'-0"

**SHEET NUMBER:** L□.00

**SHEET TITLE:** PLANTING PLAN

BASE LANDSCAPE ARCHITECTURE
2901 MARIPOSA STREET #5,
SAN FRANCISCO, CA. 94110
WWW.BASELANDSCAPE.COM

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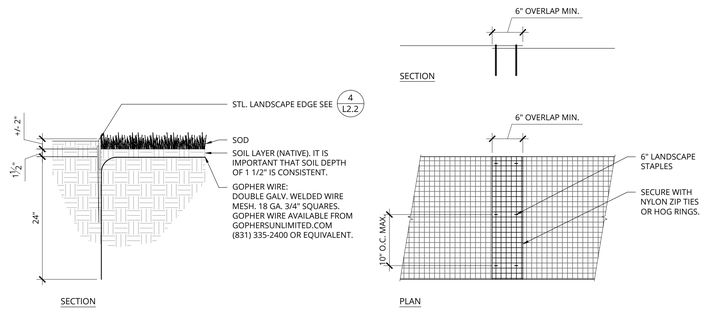
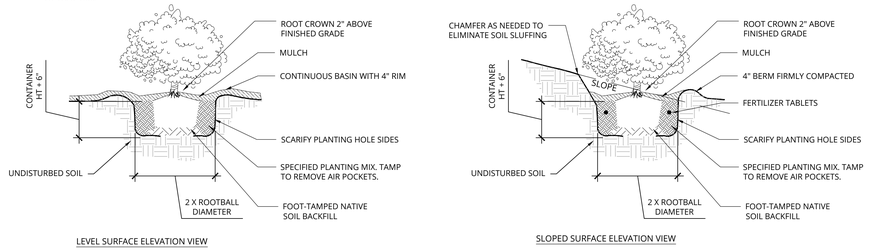



## 3 GOPHER WIRE AT TURF

1" = 1'-0"

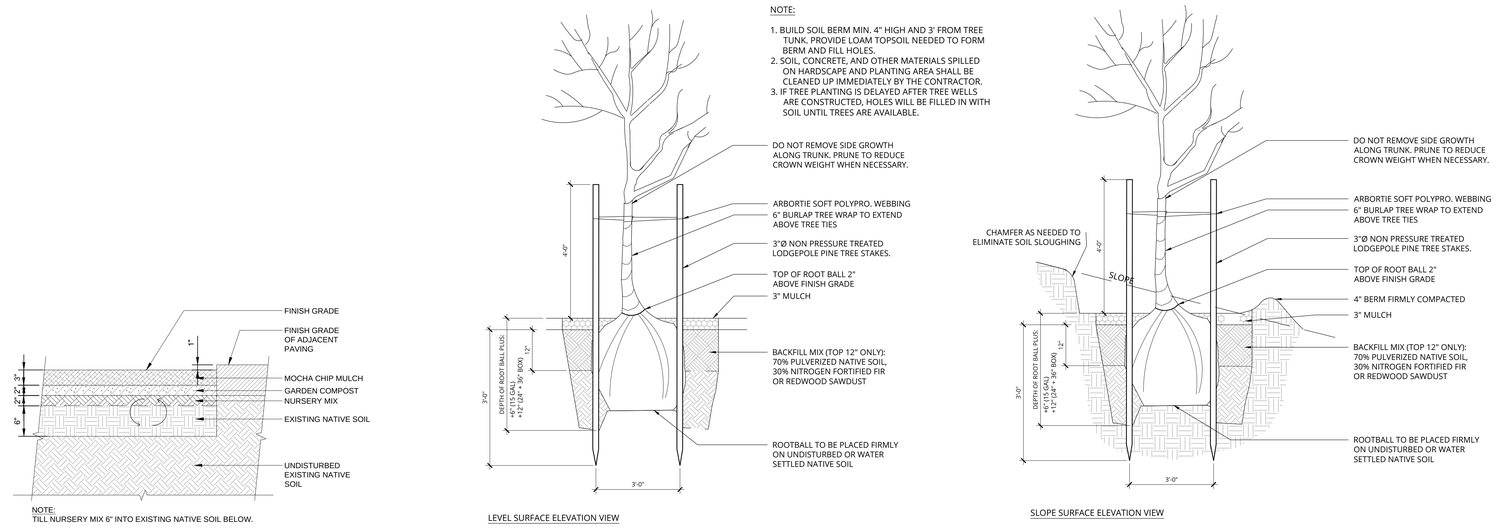
NOTE:

1. CUT ROOTBALL AS REQUIRED TO LOOSEN ROOTS AND PREVENT CIRCLING
2. THOROUGHLY WATER EACH PLANTING HOLE DURING BACKFILLING
3. ALL PLANTING AREAS SHALL RECEIVE 3" OF ¾" CLEAN FIR BARK MULCH. SUBMIT SAMPLE FOR APPROVAL TO LANDSCAPE ARCHITECT.
4. BUILD SOIL BERM MIN. 4" HIGH AND 3' FROM SHRUB TRUNK IN PLANTER STRIP. PROVIDE LOAM TOPSOIL AS NEEDED TO FORM BERM AND FILL HOLES.
5. SOIL, CONCRETE, AND OTHER MATERIALS SPILLED ON HARDSCAPE AND PLANTING AREA SHALL BE CLEANED UP IMMEDIATELY BY CONTRACTOR.
6. SHRUB PLANTING PIT DRAINAGE TEST TO BE CONDUCTED AT 3 DIFFERENT LOCATIONS ON SITE. TEST TO BE: AUGER HOLE 18" DEEP 6" DIA., FILL WITH WATER, LET DRAIN, FILL WITH WATER AGAIN AND HAVE LASD ARBORIST ON SITE TO REVIEW DRAINAGE AND MAKE ANY NECESSARY RECOMMENDATIONS AT THAT TIME.




## 2 SHRUB

3/4" = 1'-0"







## 4 PLANTING AREAS WITH ORGANIC MULCH

1" = 1'-0"

## 1 TREE IN PLANTING AREA

3/4" = 1'-0"

**OWNER:** SRCS VENETIA VALLEY K-8

**PROJECT NAME:** CLASSROOM REPLACEMENT AND NEW MPR BUILDING

**CLIENT ADDRESS:** 177 N San Pedro Rd, San Rafael, CA 94903

# DESIGN DEVELOPMENT SET

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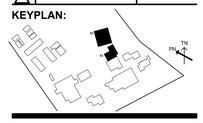
**KEYPLAN:**



**DATE ISSUED:** 08/18/2017

**PROJECT NO:** 2017 - 40140

**SCALE:** 1" = 20'-0"

**SHEET NUMBER:** L□.00

**SHEET TITLE:** PLANTING PLAN

BASE LANDSCAPE ARCHITECTURE
2901 MARIPOSA STREET #5
SAN FRANCISCO, CA, 94110
WWW.BASELANDSCAPE.COM

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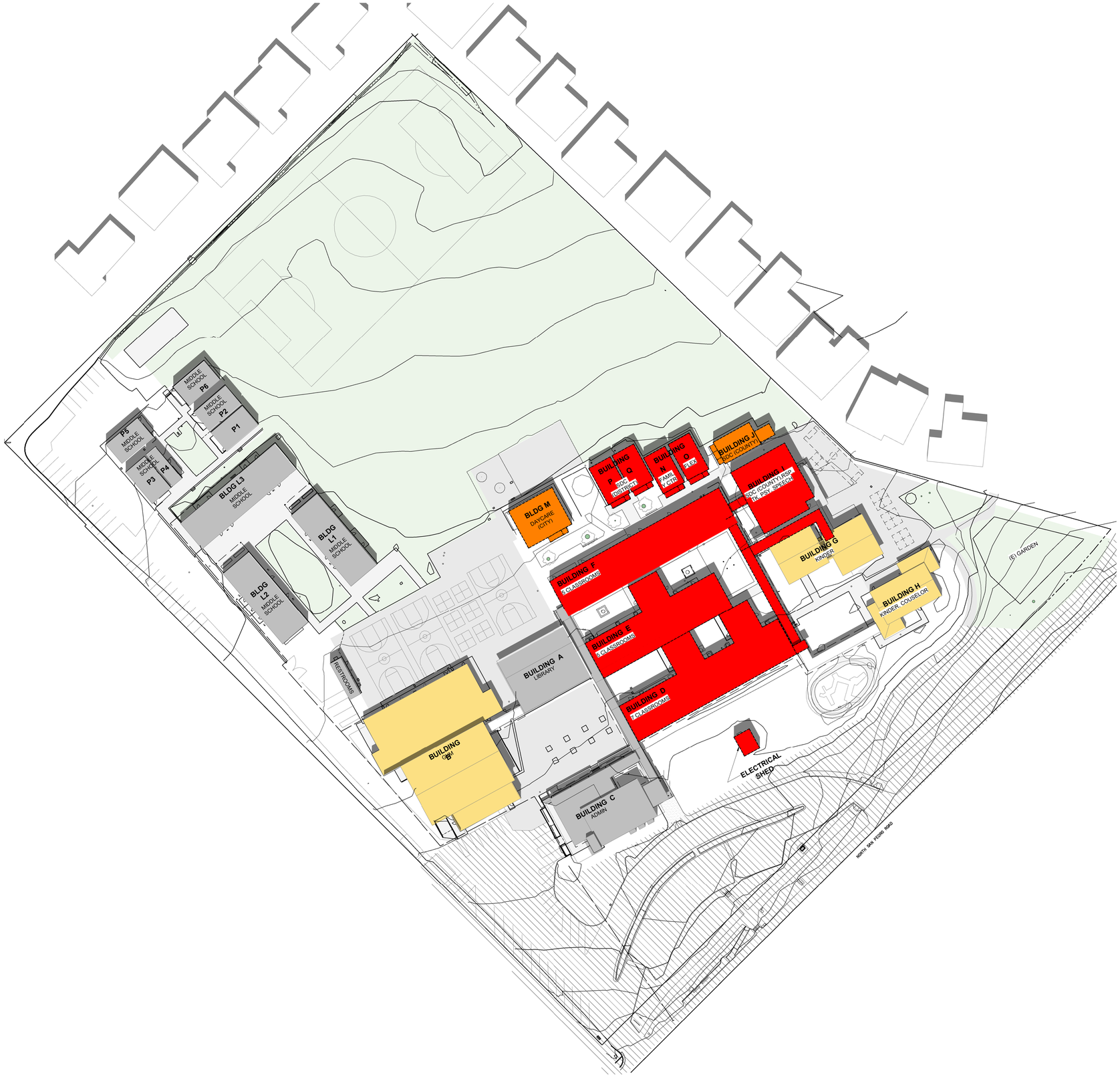


**1 Site Plan - DEMO COMPLETE**
1" = 40'-0"

8/22/2017 11:38:53 PM
C:\Users\vanelo\Documents\Venetia Valley- DD_Central_vanelo(Recovery).rvt

**OWNER:** SRCS VENETIA VALLEY K-8

**PROJECT NAME:** CLASSROOM REPLACEMENT AND NEW MPR BUILDING

**CLIENT ADDRESS:** 177 N San Pedro Rd, San Rafael, CA 94903

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**KEYPLAN:**

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|---|---|
| **DATE ISSUED:** | 08/18/2017 |
| **PROJECT NO:** | 2017 - 40104 |
| **SCALE:** | 1" = 40'-0" |

**SHEET NUMBER:**

**A-01.0**

**SHEET TITLE:**

# SITE PLAN- DEMOLITION

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**1 SITE PLAN- END OF PHASE 2**
1" = 40'-0"

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**OWNER:** SRCS VENETIA VALLEY K-8

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**CLIENT ADDRESS:** 177 N San Pedro Rd, San Rafael, CA 94903

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**KEYPLAN:**

**DATE ISSUED:** 08/18/2017
**PROJECT NO:** 2017 - 40104
**SCALE:** 1" = 40'-0"
**SHEET NUMBER:**

**A-02.1**

**SHEET TITLE:**

**SITE PLAN- END OF PHASE 2**

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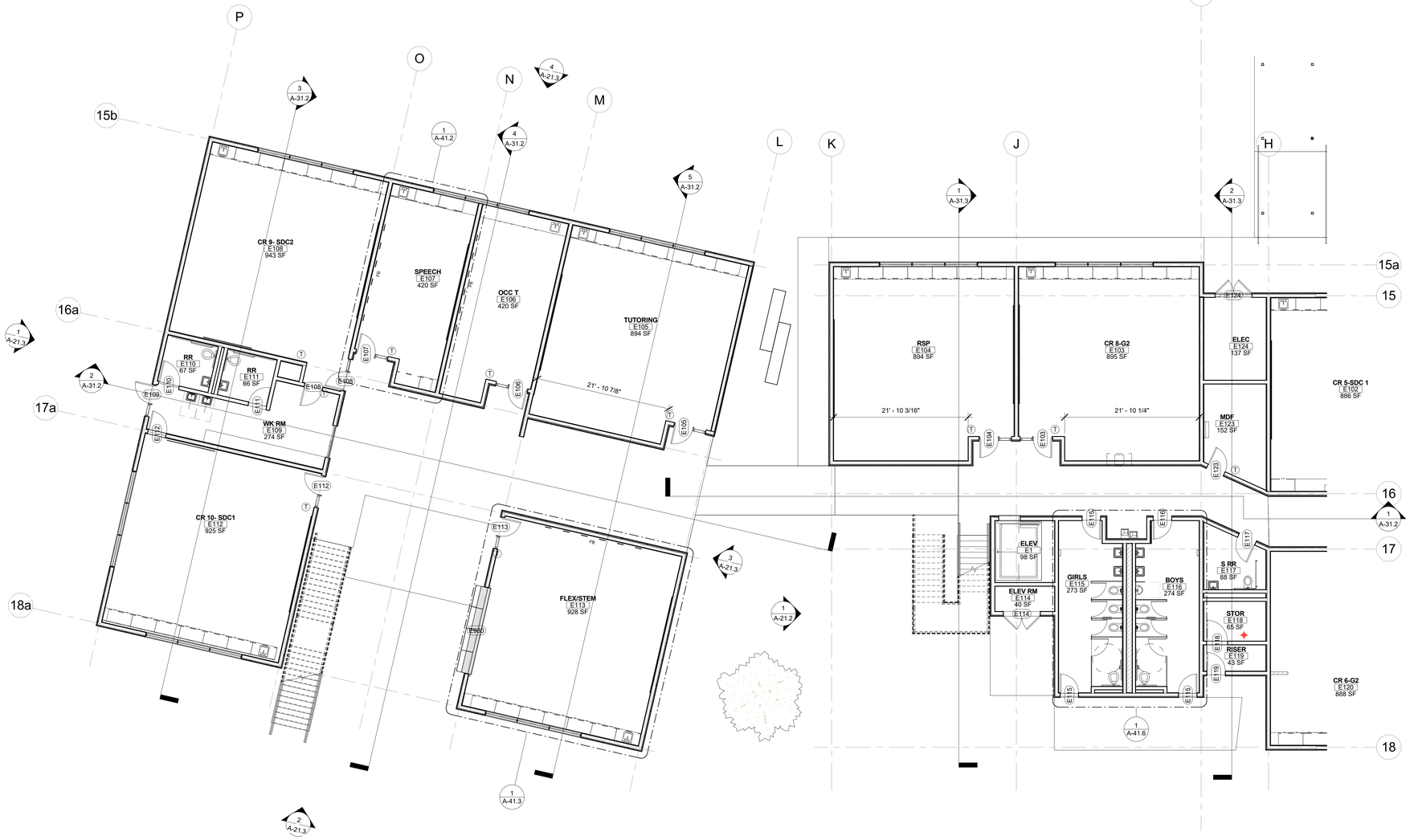


NON-RATED WALL

1-HR RATED WALL

501 KEYNOTE

A4 STOREFRONT

SHAFT OPENING

3.8.1 WALL TYPE TAG

**FIRST FLOOR PLAN - BLDGS E2, E3** | 1/8" = 1'-0" | 1 | **FLOOR PLAN LEGEND**

8/22/2017 11:39:00 PM
C:\Users\vanelo\Documents\Venetia Valley- DD_Central_vanelo(Recovery).rvt

**OWNER:** SRCS VENETIA VALLEY K-8

**PROJECT NAME:** CLASSROOM REPLACEMENT AND NEW MPR BUILDING

**CLIENT ADDRESS:** 177 N San Pedro Rd, San Rafael, CA 94903

DESIGN DEVELOPMENT SET

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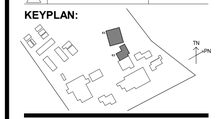
**KEYPLAN:**




**DATE ISSUED:** 08/18/2017

**PROJECT NO:** 2017 - 40104

**SCALE:** As indicated

**SHEET NUMBER:**

**A-11.11**

**SHEET TITLE:**

**FIRST FLR PLAN - BLDG E2, E3**

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NON-RATED WALL

1-HR RATED WALL

501 KEYNOTE

A4 STOREFRONT

SHAFT OPENING

3.8.1 WALL TYPE TAG

**FIRST FLOOR PLAN - BLDGS D, E1** | 1/8" = 1'-0" | 1

**FLOOR PLAN LEGEND**

8/22/2017 11:39:01 PM
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**OWNER:** SRCS VENETIA VALLEY K-8

**PROJECT NAME:** CLASSROOM REPLACEMENT AND NEW MPR BUILDING

**CLIENT ADDRESS:** 177 N San Pedro Rd, San Rafael, CA 94903

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**KEYPLAN:**

**DATE ISSUED:** 08/18/2017

**PROJECT NO:** 2017 - 40104

**SCALE:** As indicated

**SHEET NUMBER:**

# A-11.12

**SHEET TITLE:**

# FIRST FLR PLAN - BLDG D, E1

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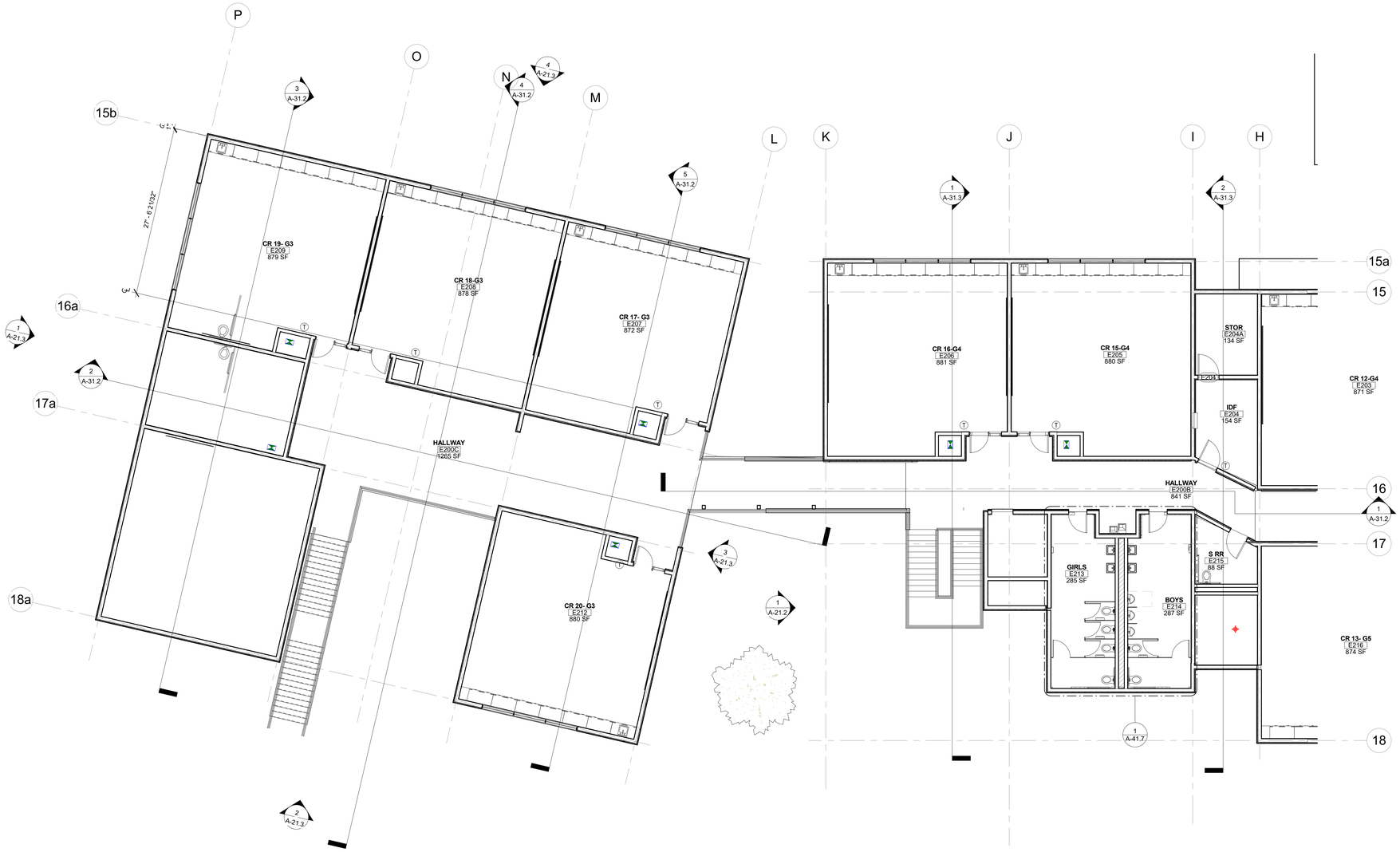


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|---|---|
| NON-RATED WALL | |
| 1-HR RATED WALL | |
| 501 | KEYNOTE |
| A4 | STOREFRONT |
| | SHAFT OPENING |
| 3.8.1 | WALL TYPE TAG |

**BLDGS E2, E3 - SECOND FLOOR PLAN** | 1/8" = 1'-0" | **1** | **FLOOR PLAN LEGEND**

8/22/2017 11:39:03 PM
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**OWNER:** SRCS VENETIA VALLEY K-8

**PROJECT NAME:** CLASSROOM REPLACEMENT AND NEW MPR BUILDING

**CLIENT ADDRESS:** 177 N San Pedro Rd, San Rafael, CA 94903

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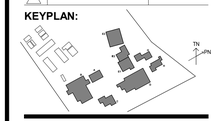
**KEYPLAN:**




**DATE ISSUED:** 08/18/2017
**PROJECT NO:** 2017 - 40104
**SCALE:** As indicated
**SHEET NUMBER:**

**A-11.21**

**SHEET TITLE:**

# SECOND FLR PLAN - BLDG E2, E3

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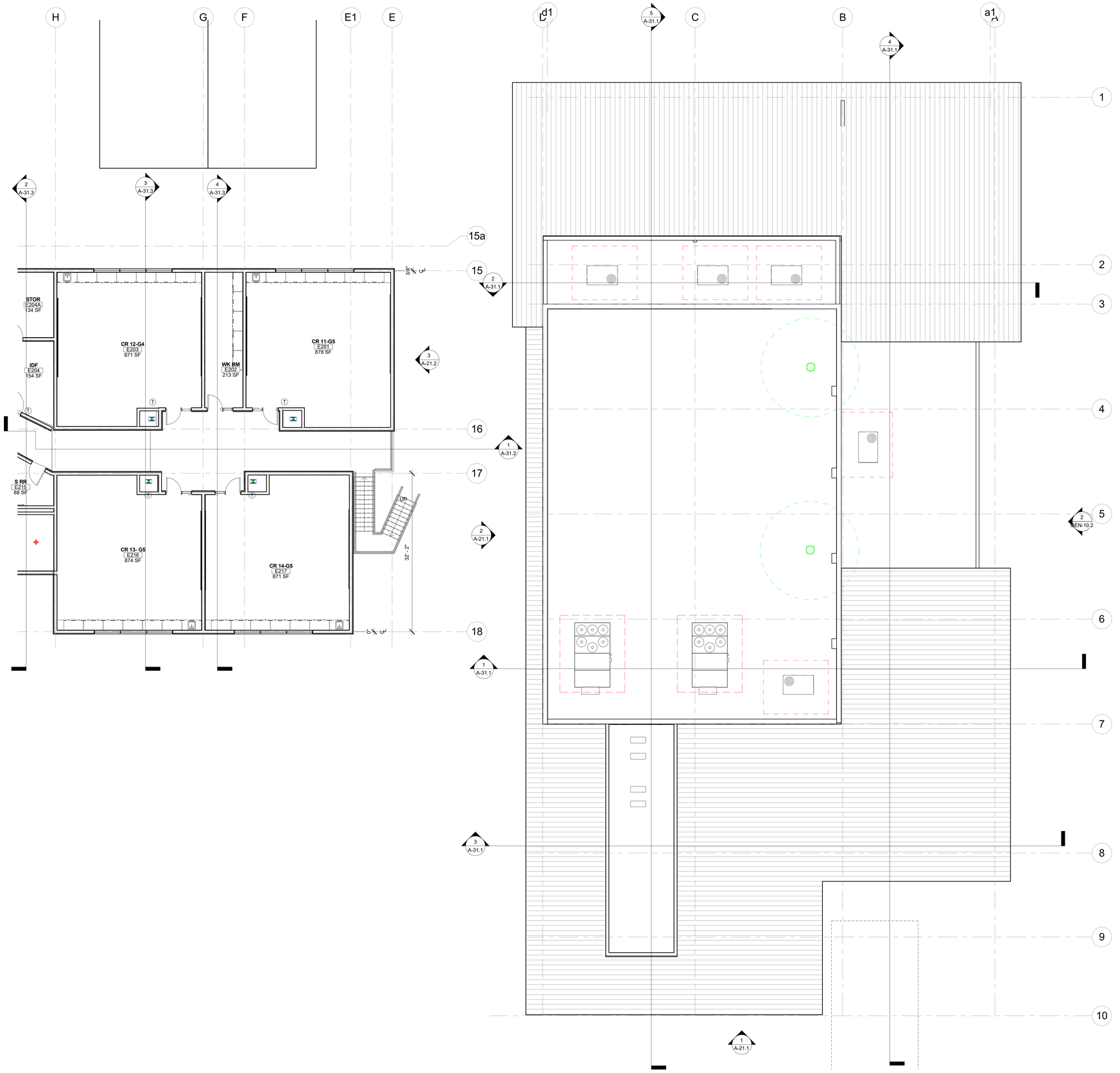


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|---|---|
| | NON-RATED WALL |
| | 1-HR RATED WALL |
| 501 | KEYNOTE |
| A4 | STOREFRONT |
| | SHAFT OPENING |
| 3.8.1 | WALL TYPE TAG |

**BLDGS D, E1- SECOND FLOOR PLAN** | 1/8" = 1'-0" | 1

**FLOOR PLAN LEGEND**

8/22/2017 11:39:04 PM
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**OWNER:** SRCS VENETIA VALLEY K-8

**PROJECT NAME:** CLASSROOM REPLACEMENT AND NEW MPR BUILDING

**CLIENT ADDRESS:** 177 N San Pedro Rd, San Rafael, CA 94903

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**KEYPLAN:**

**DATE ISSUED:** 08/18/2017

**PROJECT NO:** 2017 - 40104

**SCALE:** As indicated

**SHEET NUMBER:**

# A-11.22

**SHEET TITLE:**

# SECOND FLR PLAN - BLDG D, E1

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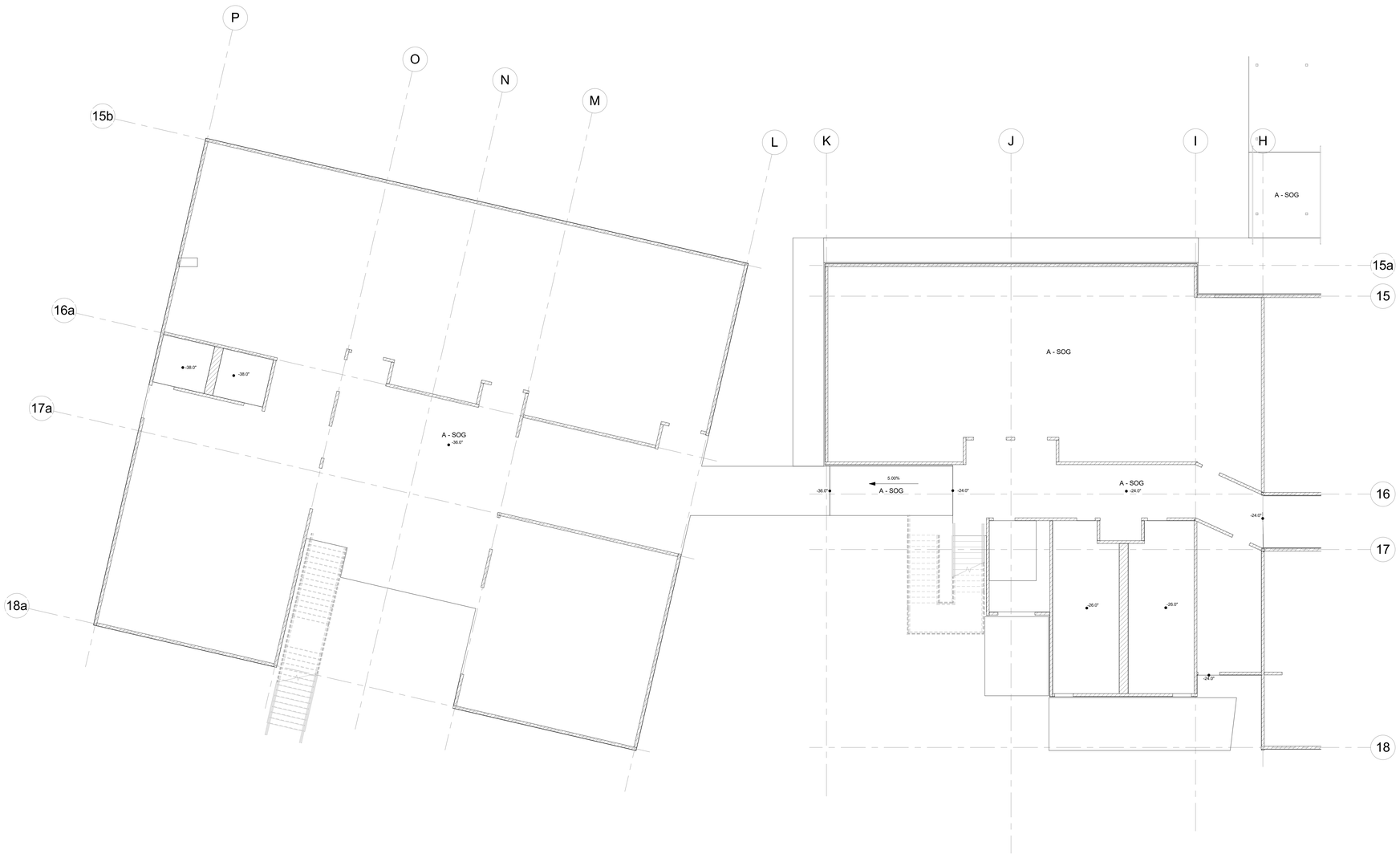


**1** **BLDGS E2, E3 - FIRST FLOOR SLAB PLAN**
1/8" = 1'-0"

8/22/2017 11:39:05 PM
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**OWNER:** SRCS VENETIA VALLEY K-8

**PROJECT NAME:** CLASSROOM REPLACEMENT AND NEW MPR BUILDING

**CLIENT ADDRESS:** 177 N San Pedro Rd, San Rafael, CA 94903

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**KEYPLAN:**

**DATE ISSUED:** 08/18/2017

**PROJECT NO:** 2017 - 40104

**SCALE:** 1/8" = 1'-0"

**SHEET NUMBER:**

**A-12.11**

**SHEET TITLE:**

# FIRST FLR SLAB PLAN - BLDG E2, E3

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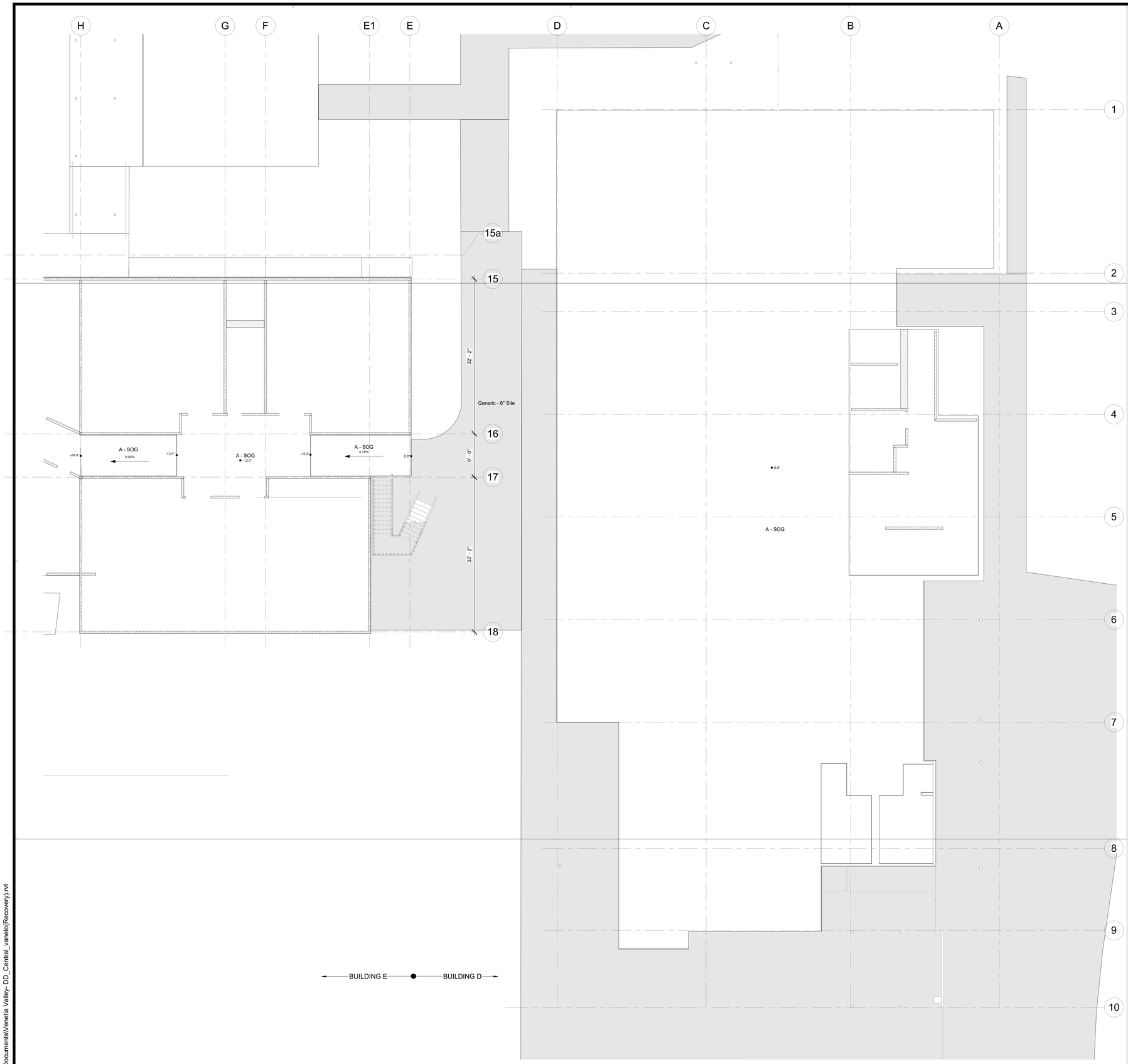


1 **BLDGS D, E1- FIRST FLOOR SLAB PLAN**
1/8" = 1'-0"

8/22/2017 11:39:06 PM
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**OWNER:** SRCS VENETIA VALLEY K-8

**PROJECT NAME:** CLASSROOM REPLACEMENT AND NEW MPR BUILDING

**CLIENT ADDRESS:** 177 N San Pedro Rd, San Rafael, CA 94903

DESIGN DEVELOPMENT SET

**SEAL:**

IDENTIFICATION STAMP
DIVISION OF THE STATE ARCHITECT
OFFICE OF REGULATION SERVICES

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**KEYPLAN:**

**DATE ISSUED:** 08/18/2017

**PROJECT NO:** 2017 - 40104

**SCALE:** 1/8" = 1'-0"

**SHEET NUMBER:**

**A-12.12**

**SHEET TITLE:**

**FIRST FLR SLAB PLAN - BLDG D, E1**

SVA ARCHITECTS
3 MACARTHUR PLACE, SUITE 850 SANTA ANA, CA 92707
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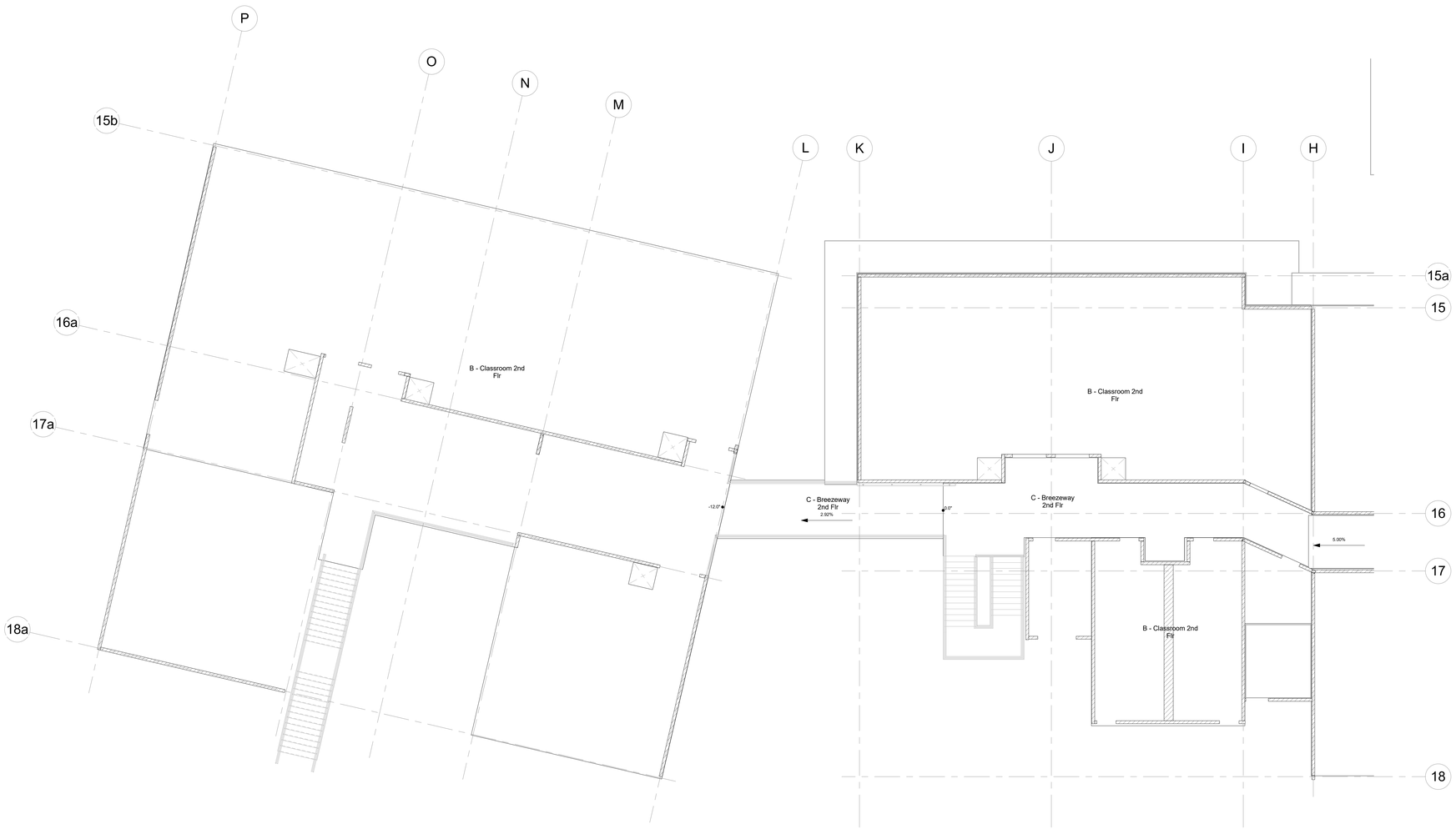


1 **BLDGS E2, E3 - SECOND FLOOR SLAB PLAN**
1/8" = 1'-0"

8/22/2017 11:39:07 PM
C:\Users\vanelo\Documents\Venetia Valley- DD_Central_vanelo(Recovery).rvt

**OWNER:** SRCS VENETIA VALLEY K-8

**PROJECT NAME:** CLASSROOM REPLACEMENT AND NEW MPR BUILDING

**CLIENT ADDRESS:** 177 N San Pedro Rd, San Rafael, CA 94903

DESIGN DEVELOPMENT SET

**SEAL:**

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**KEYPLAN:**

**DATE ISSUED:** 08/18/2017

**PROJECT NO:** 2017 - 40104

**SCALE:** 1/8" = 1'-0"

**SHEET NUMBER:**

**A-12.21**

**SHEET TITLE:**

## SECOND FLR SLAB PLAN - BLDG E2, E3

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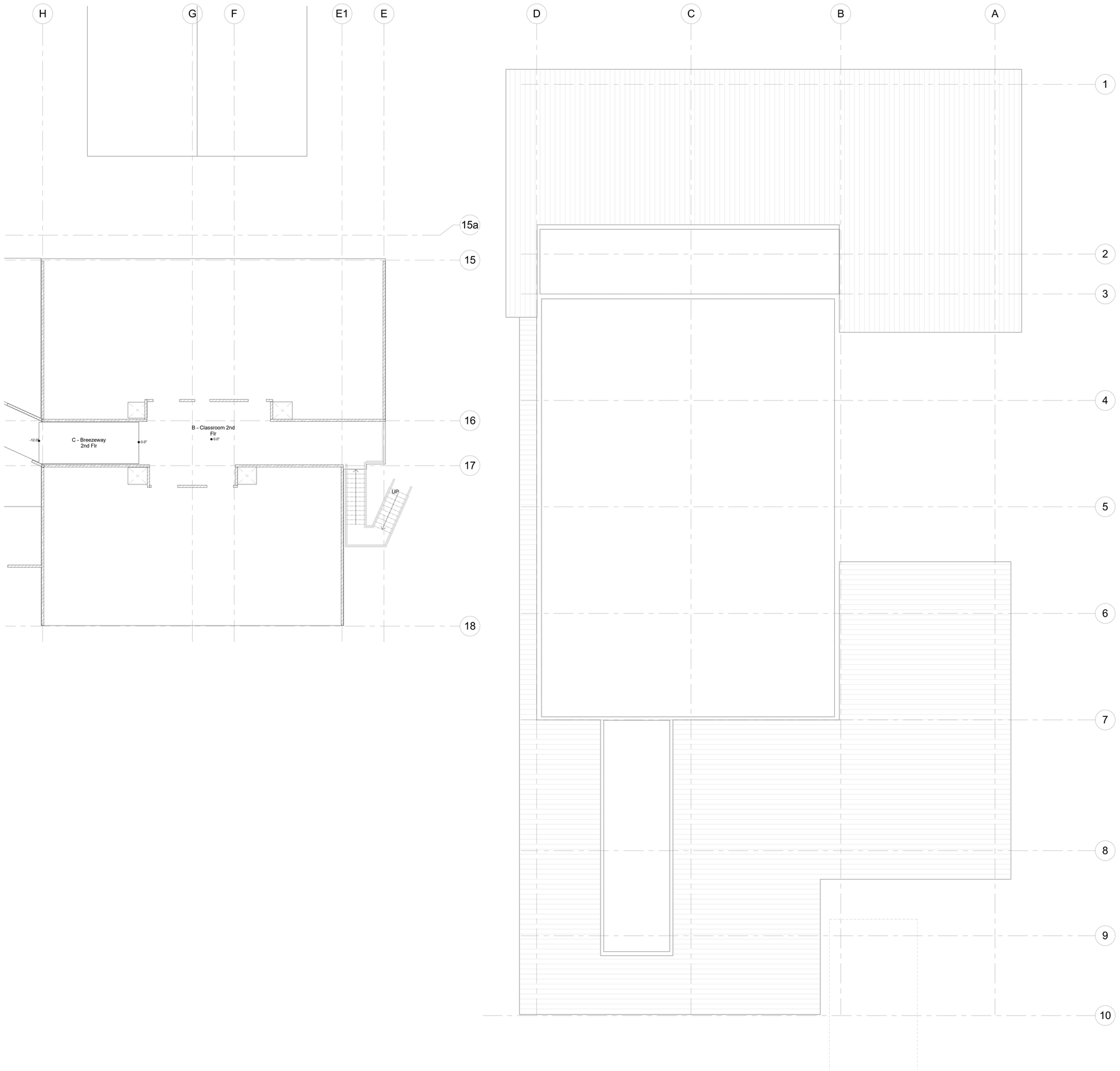


**1** **BLDGS D, E1- SECOND FLOOR SLAB PLAN**
1/8" = 1'-0"

8/22/2017 11:39:07 PM
C:\Users\vaneio\Documents\Venetia Valley- DD_Central_vaneio(Recovery).rvt

**OWNER:** SRCS VENETIA VALLEY K-8

**PROJECT NAME:** CLASSROOM REPLACEMENT AND NEW MPR BUILDING

**CLIENT ADDRESS:** 177 N San Pedro Rd, San Rafael, CA 94903

DESIGN DEVELOPMENT SET

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**KEYPLAN:**

**DATE ISSUED:** 08/18/2017

**PROJECT NO:** 2017 - 40104

**SCALE:** 1/8" = 1'-0"

**SHEET NUMBER:**

**A-12.22**

**SHEET TITLE:**

**SECOND FLR SLAB PLAN - BLDG D, E1**

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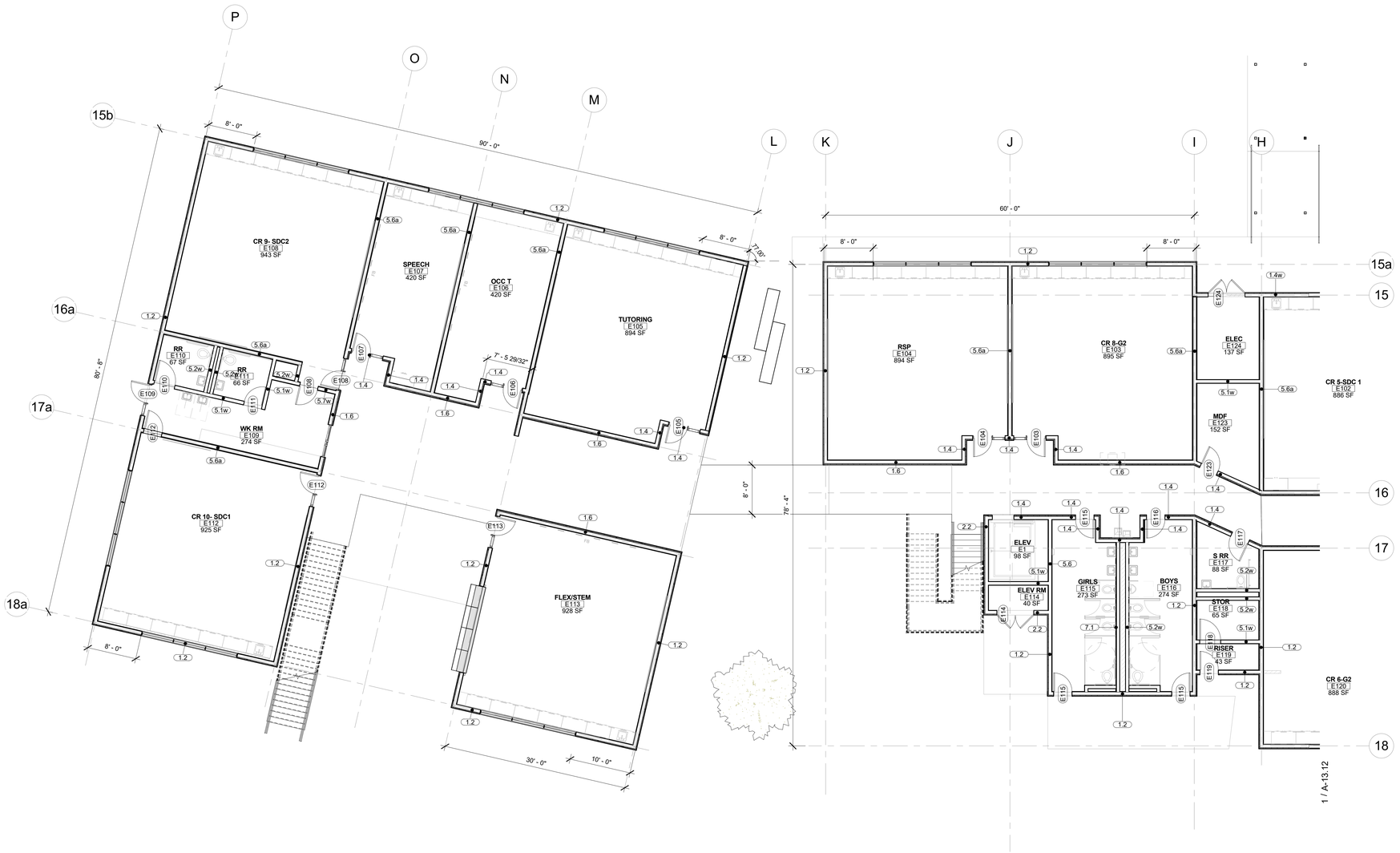


## 1 BLDGS E2, E3 - FIRST FLOOR LAYOUT PLAN

1/8" = 1'-0"

NON-RATED WALL

1-HR RATED WALL

501 KEYNOTE

A4 STOREFRONT

SHAFT OPENING

3.8.1 WALL TYPE TAG

**FLOOR PLAN LEGEND**

8/22/2017 11:39:09 PM
C:\Users\vanelo\Documents\Venetia Valley- DD_Central_vanelo(Recovery).rvt

**OWNER:** SRCS VENETIA VALLEY K-8

**PROJECT NAME:** CLASSROOM REPLACEMENT AND NEW MPR BUILDING

**CLIENT ADDRESS:** 177 N San Pedro Rd, San Rafael, CA 94903

DESIGN DEVELOPMENT SET

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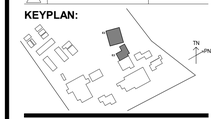
**KEYPLAN:**




**DATE ISSUED:** 08/18/2017

**PROJECT NO:** 2017 - 40104

**SCALE:** As indicated

**SHEET NUMBER:**

**A-13.11**

**SHEET TITLE:**

# FIRST FLR LAYOUT PLAN - BLDG E2, E3

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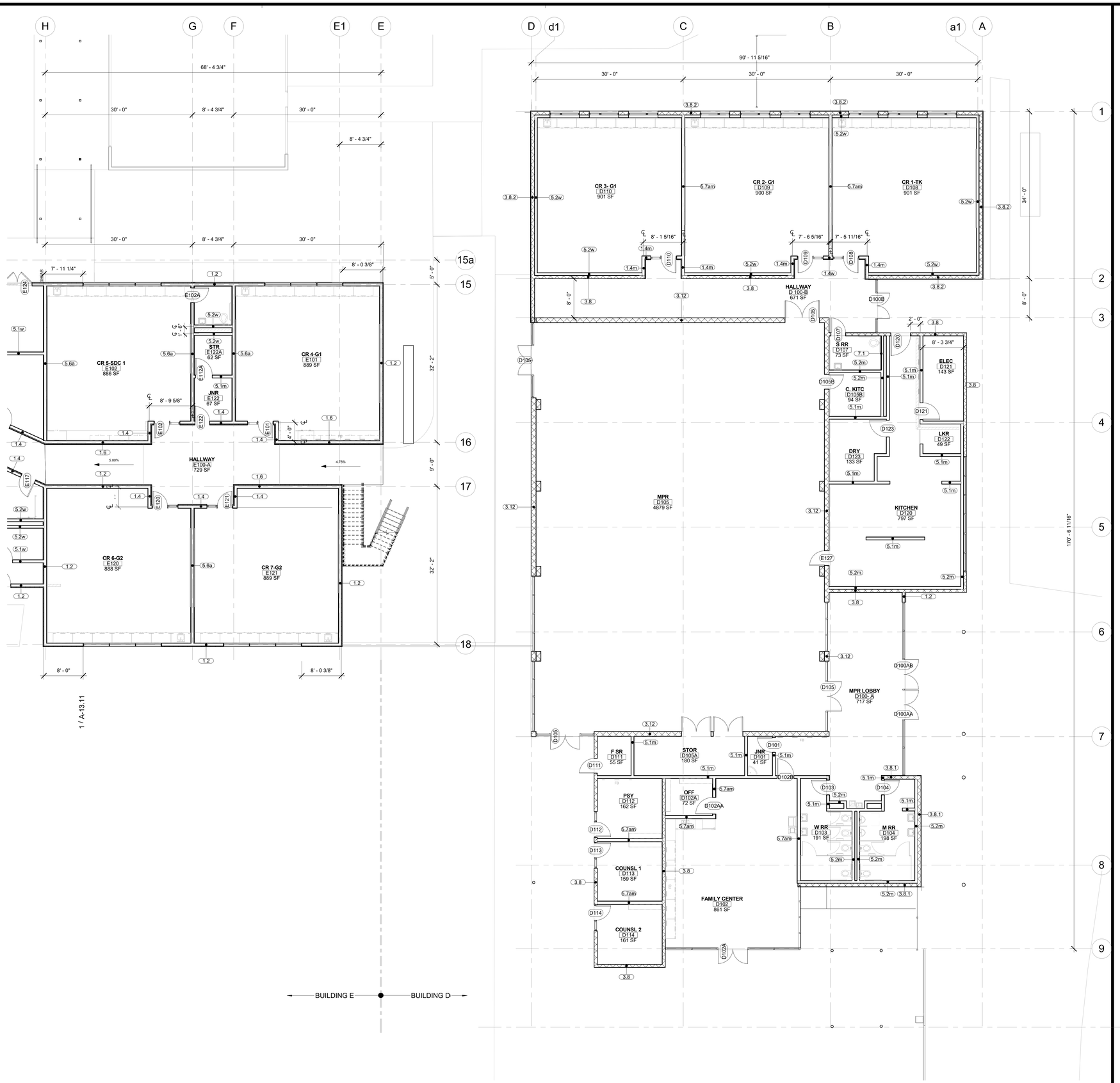


1 **BLDGS D, E1- FIRST FLOOR LAYOUT PLAN**
1/8" = 1'-0"

8/22/2017 11:39:11 PM
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NON-RATED WALL
1-HR RATED WALL
10 501 KEYNOTE
A4 STOREFRONT
SHAFT OPENING
3.8.1 WALL TYPE TAG

**FLOOR PLAN LEGEND**

**OWNER:** SRCS VENETIA VALLEY K-8

**PROJECT NAME:** CLASSROOM REPLACEMENT AND NEW MPR BUILDING

**CLIENT ADDRESS:** 177 N San Pedro Rd, San Rafael, CA 94903

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**KEYPLAN:**

**DATE ISSUED:** 08/18/2017
**PROJECT NO:** 2017 - 40104
**SCALE:** As indicated
**SHEET NUMBER:**

**A-13.12**

**SHEET TITLE:**

**FIRST FLR LAYOUT PLAN - BLDG D, E1**

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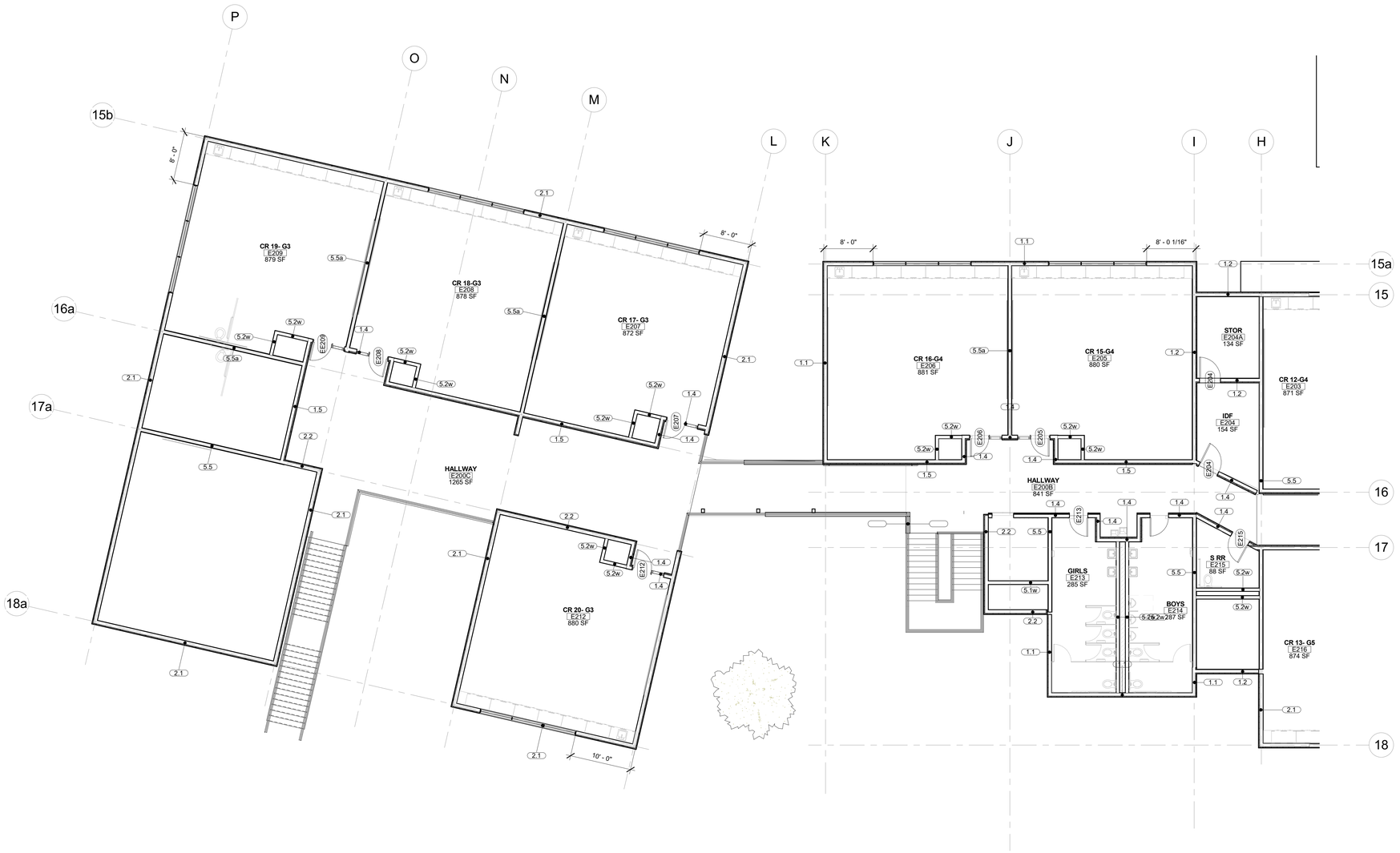


## BLDGS E2, E3 - SECOND FLOOR LAYOUT PLAN

1 1/8" = 1'-0"

NON-RATED WALL

1-HR RATED WALL

501 KEYNOTE

A4 STOREFRONT

SHAFT OPENING

3.8.1 WALL TYPE TAG

**FLOOR PLAN LEGEND**

8/22/2017 11:39:12 PM
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**OWNER:** SRCS VENETIA VALLEY K-8

**PROJECT NAME:** CLASSROOM REPLACEMENT AND NEW MPR BUILDING

**CLIENT ADDRESS:** 177 N San Pedro Rd, San Rafael, CA 94903

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**KEYPLAN:**

**DATE ISSUED:** 08/18/2017

**PROJECT NO:** 2017 - 40104

**SCALE:** As indicated

**SHEET NUMBER:**

# A-13.21

**SHEET TITLE:**

## SECOND FLR LAYOUT PLAN - BLDG E2, E3

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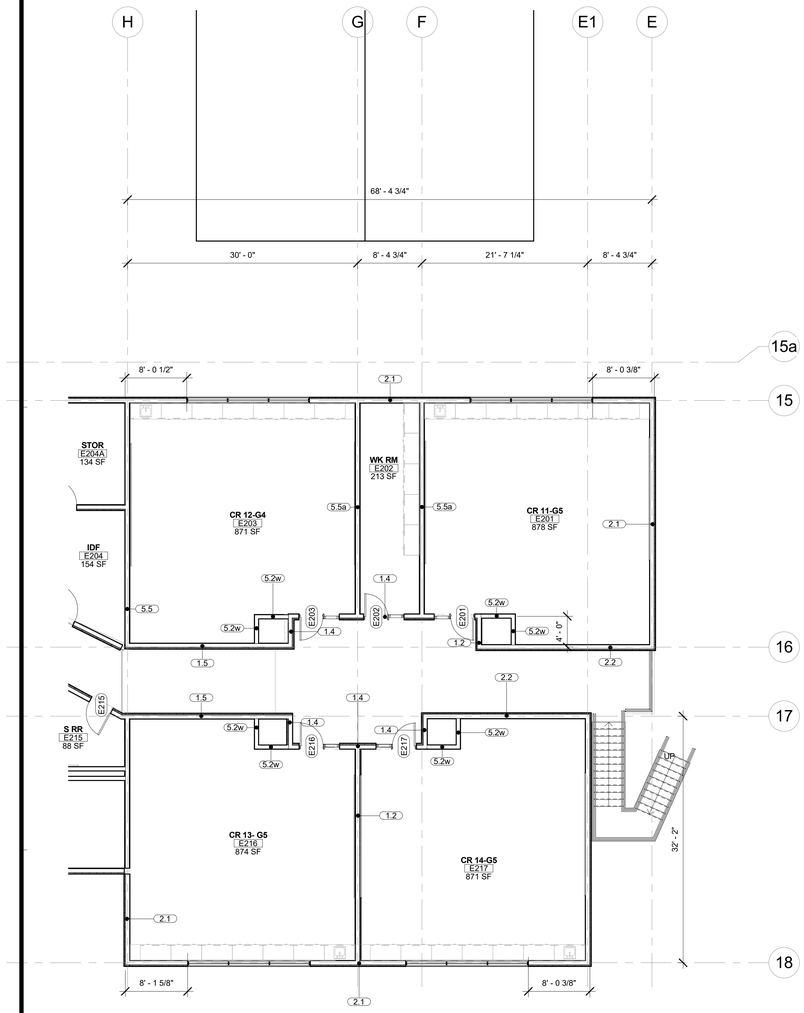


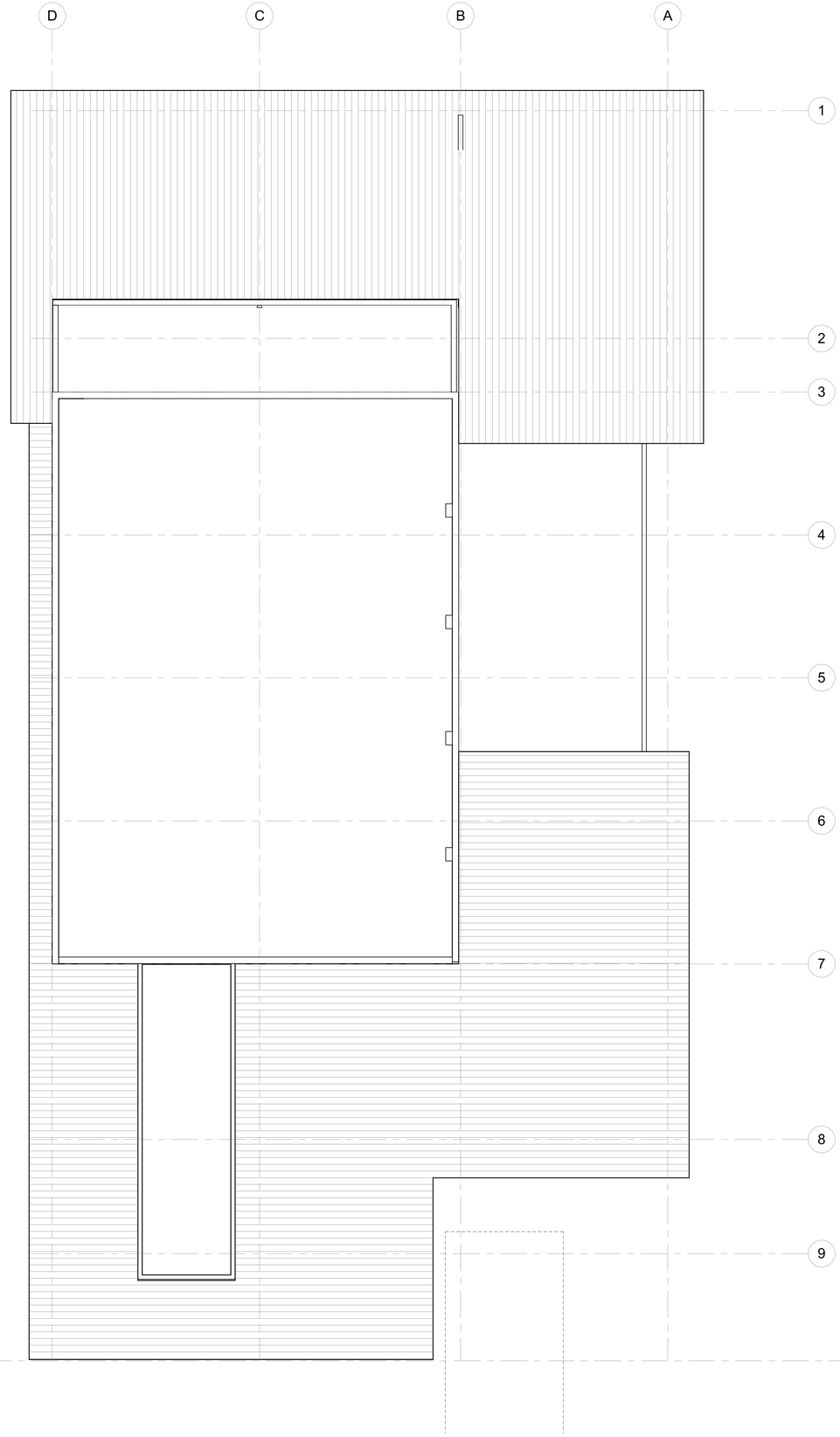


## 1 BLDGS D, E1- SECOND FLOOR LAYOUT PLAN

1/8" = 1'-0"

NON-RATED WALL

1-HR RATED WALL

10 501 KEYNOTE

A4 STOREFRONT

SHAFT OPENING

3.8.1 WALL TYPE TAG

**FLOOR PLAN LEGEND**

8/22/2017 11:39:13 PM
C:\Users\vanelo\Documents\Venetia Valley- DD_Central_vanelo(Recovery).rvt

**OWNER:** SRCS VENETIA VALLEY K-8

**PROJECT NAME:** CLASSROOM REPLACEMENT AND NEW MPR BUILDING

**CLIENT ADDRESS:** 177 N San Pedro Rd, San Rafael, CA 94903

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**KEYPLAN:**

**DATE ISSUED:** 08/18/2017

**PROJECT NO:** 2017 - 40104

**SCALE:** As indicated

**SHEET NUMBER:**

**A-13.22**

**SHEET TITLE:**

# SECOND FLR LAYOUT PLAN - BLDG D, E1

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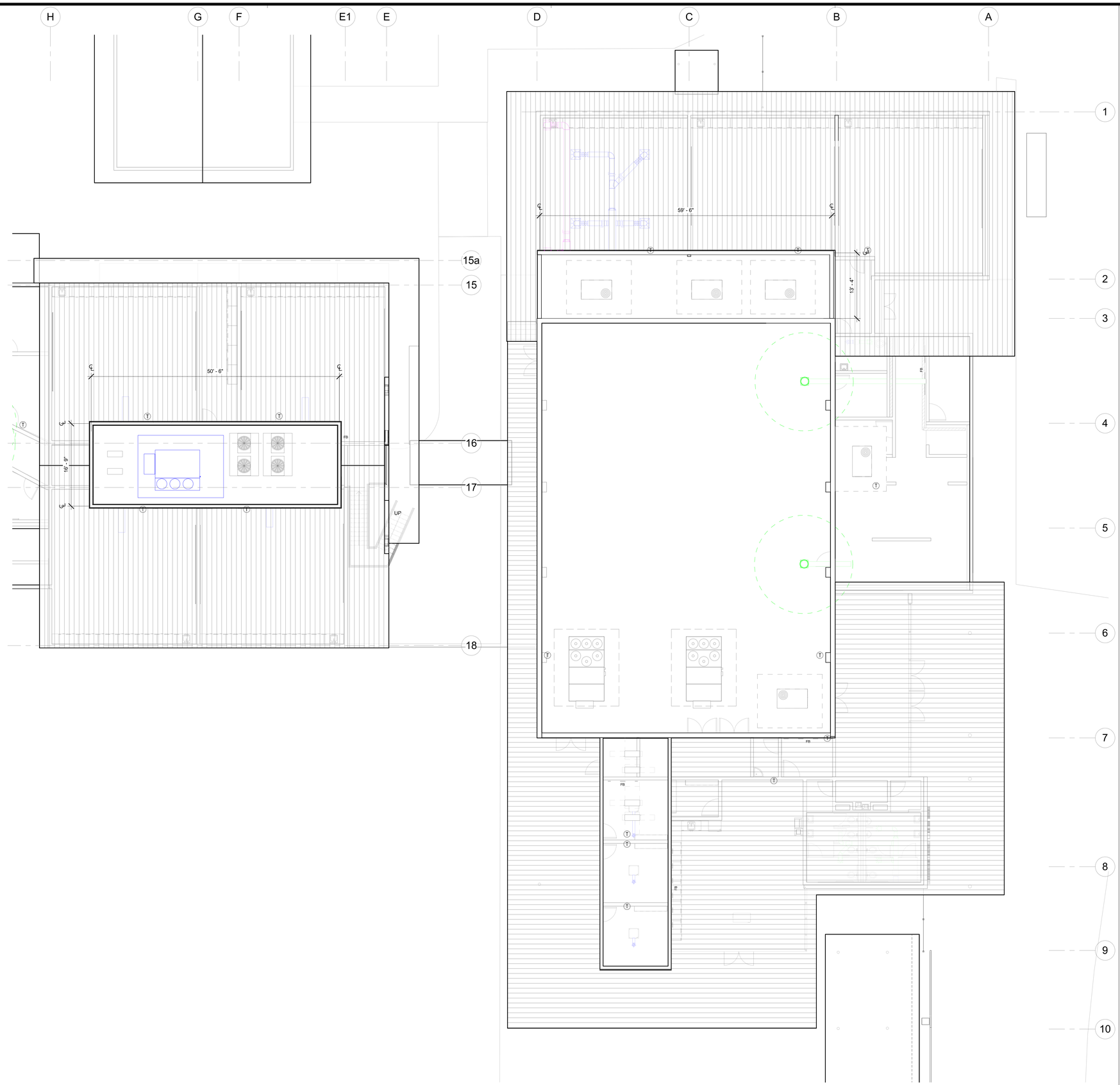


## 2 BLDGS D, E1- LAYOUT PLAN, ROOF WELLS

1/8" = 1'-0"

NON-RATED WALL

1-HR RATED WALL

501 KEYNOTE

A4 STOREFRONT

SHAFT OPENING

3.8.1 WALL TYPE TAG

**FLOOR PLAN LEGEND**

8/22/2017 11:39:15 PM
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**OWNER:** SRCS VENETIA VALLEY K-8

**PROJECT NAME:** CLASSROOM REPLACEMENT AND NEW MPR BUILDING

**CLIENT ADDRESS:** 177 N San Pedro Rd, San Rafael, CA 94903

DESIGN DEVELOPMENT SET

**SEAL:**

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**KEYPLAN:**

**DATE ISSUED:** 08/18/2017

**PROJECT NO:** 2017 - 40104

**SCALE:** As indicated

**SHEET NUMBER:**

**A-13.31**

**SHEET TITLE:**

# LAYOUT PLAN - BLDG D, E1 ( ROOF WELLS)

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3 MACARTHUR PLACE, SUITE 850 SANTA ANA, CA 92707
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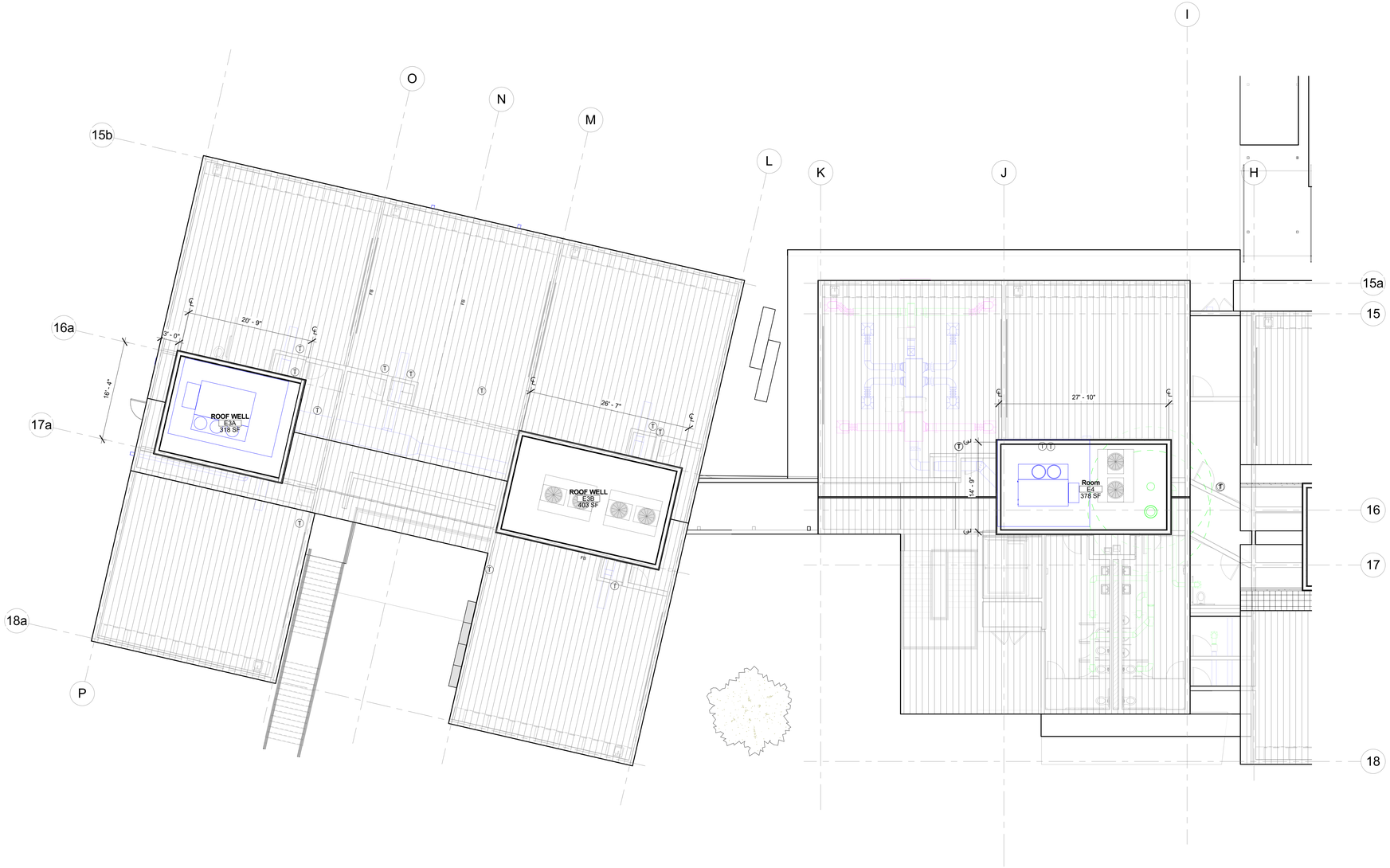


1 **BLDGS E1, E2 - LAYOUT PLAN, ROOF WELLS**
1/8" = 1'-0"

NON-RATED WALL

1-HR RATED WALL

501 KEYNOTE

A4 STOREFRONT

SHAFT OPENING

3.8.1 WALL TYPE TAG

**FLOOR PLAN LEGEND**

8/22/2017 11:39:17 PM
C:\Users\vanelo\Documents\Venetia Valley- DD_Central_vanelo(Recovery).rvt

**OWNER:** SRCS VENETIA VALLEY K-8

**PROJECT NAME:** CLASSROOM REPLACEMENT AND NEW MPR BUILDING

**CLIENT ADDRESS:** 177 N San Pedro Rd, San Rafael, CA 94903

DESIGN DEVELOPMENT SET

**SEAL:**

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**KEYPLAN:**

**DATE ISSUED:** 08/18/2017

**PROJECT NO:** 2017 - 40104

**SCALE:** As indicated

**SHEET NUMBER:**

**A-13.322**

**SHEET TITLE:**

**LAYOUT PLAN - BLDG E1, E2 ( ROOF WELLS)**

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EXIT LIGHT, W/DIRECTIONAL ARROW AS INDICATED

RECESSED LINEAR WALL WASH FIXTURE

SURFACE MOUNTED LINEAR 4' LIGHT FIXTURE

RECESSED INDIRECT LIGHT 1X4 LIGHT FIXTURE

WALL MOUNTED SCONE

WALL MOUNTED UP/ DOWN SCONE

SURFACE MOUNTED DOWNLIGHT

RECESSED DOWNLIGHT

SUSPENDED DIRECT/ INDIRECT LIGHT

SUSPENDED TRACK LIGHT

SUSPENDED STRIP LIGHT

OPEN CEILING

2' X 4' SUSPENDED ACOUSTICAL CEILING TILES

SUSPENDED ACOUSTICAL CEILING TILES, CLOUDS

CEILING EXHAUST DIFFUSER

CEILING SUPPLY AIR DIFFUSER

CEILING RETURN AIR DIFFUSER

2X4 RECESSED FLUORESCENT

PLASTER CEILING

GYP. BOARD CEILING

CUSTOM CNC ROUTED DECORATIVE PLYWOOD CEILING W/ T-BAR MOUNTING

SUSPENDED FLUORESCENT

**BLDG E2, E3- FIRST RCP** | 1/8" = 1'-0" | 1 | **RCP LEGEND**

8/22/2017 11:39:18 PM
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**OWNER:** SRCS VENETIA VALLEY K-8

**PROJECT NAME:** CLASSROOM REPLACEMENT AND NEW MPR BUILDING

**CLIENT ADDRESS:** 177 N San Pedro Rd, San Rafael, CA 94903

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**KEYPLAN:**

**DATE ISSUED:** 08/18/2017

**PROJECT NO:** 2017 - 40104

**SCALE:** As indicated

**SHEET NUMBER:**

**A-14.11**

**SHEET TITLE:**

**FIRST FLR RCP - BLDG E3, E2**

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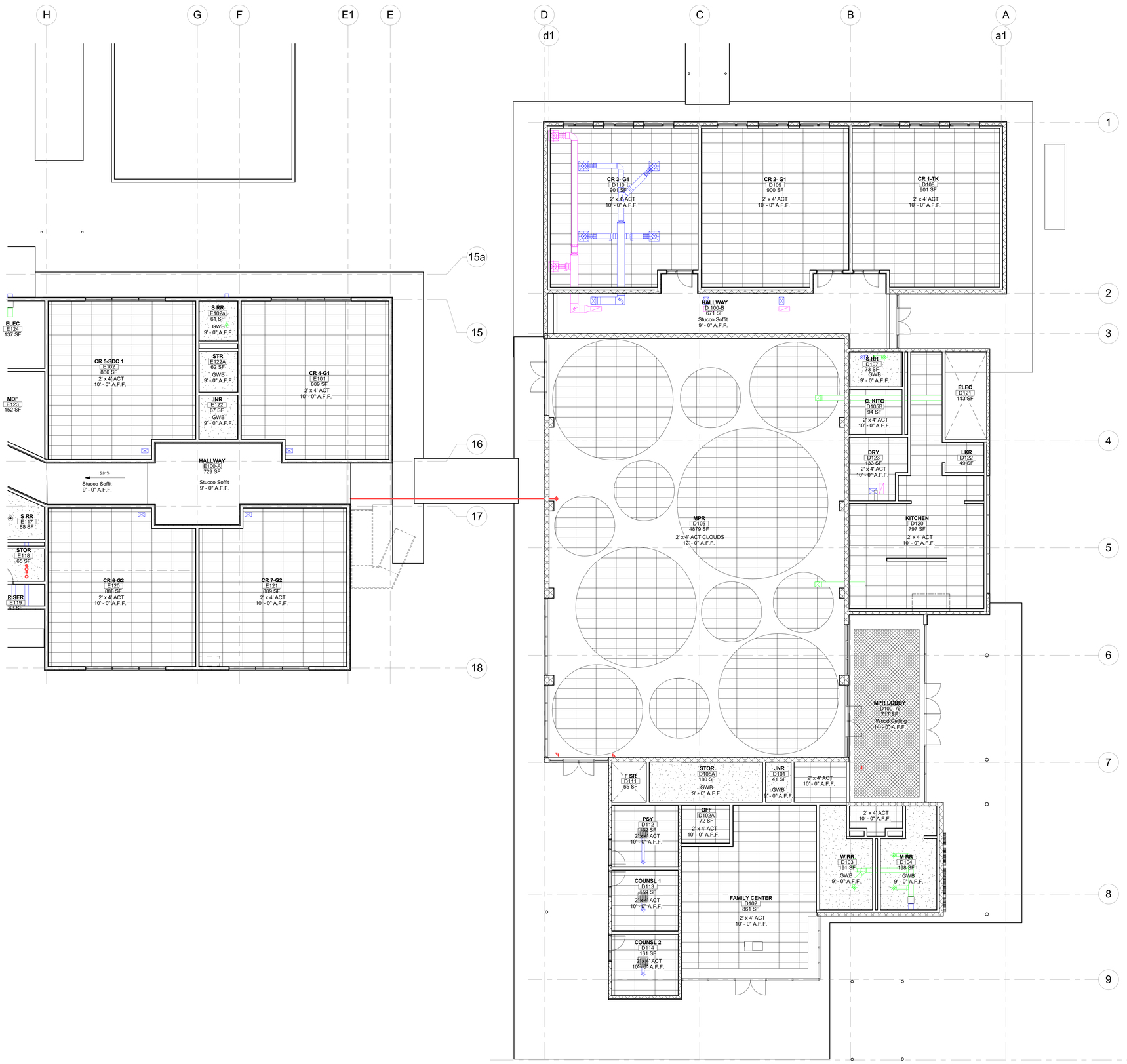


EXIT LIGHT, W/DIRECTIONAL ARROW AS INDICATED

RECESSED LINEAR WALL WASH FIXTURE

SURFACE MOUNTED LINEAR 4' LIGHT FIXTURE

RECESSED INDIRECT LIGHT 1X4 LIGHT FIXTURE

WALL MOUNTED SCONE

WALL MOUNTED UP/ DOWN SCONE

SURFACE MOUNTED DOWNLIGHT

RECESSED DOWNLIGHT

SUSPENDED DIRECT/ INDIRECT LIGHT

SUSPENDED TRACK LIGHT

SUSPENDED STRIP LIGHT

OPEN CEILING

2' X 4' SUSPENDED ACOUSTICAL CEILING TILES

SUSPENDED ACOUSTICAL CEILING TILES, CLOUDS

CEILING EXHAUST DIFFUSER

CEILING SUPPLY AIR DIFFUSER

CEILING RETURN AIR DIFFUSER

2X4 RECESSED FLUORESCENT

PLASTER CEILING

GYP. BOARD CEILING

CUSTOM CNC ROUTED DECORATIVE PLYWOOD CEILING W/ T-BAR MOUNTING

SUSPENDED FLUORESCENT

**BLDG D, E1- FIRST RCP** | 1/8" = 1'-0" | 1 | **RCP LEGEND**

8/22/2017 11:39:20 PM
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**OWNER:** SRCS VENETIA VALLEY K-8

**PROJECT NAME:** CLASSROOM REPLACEMENT AND NEW MPR BUILDING

**CLIENT ADDRESS:** 177 N San Pedro Rd, San Rafael, CA 94903

DESIGN DEVELOPMENT SET

**SEAL:**

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**KEYPLAN:**

**DATE ISSUED:** 08/18/2017

**PROJECT NO:** 2017 - 40104

**SCALE:** As indicated

**SHEET NUMBER:**

**A-14.12**

**SHEET TITLE:**

**FIRST FLR RCP - BLDG D, E1**

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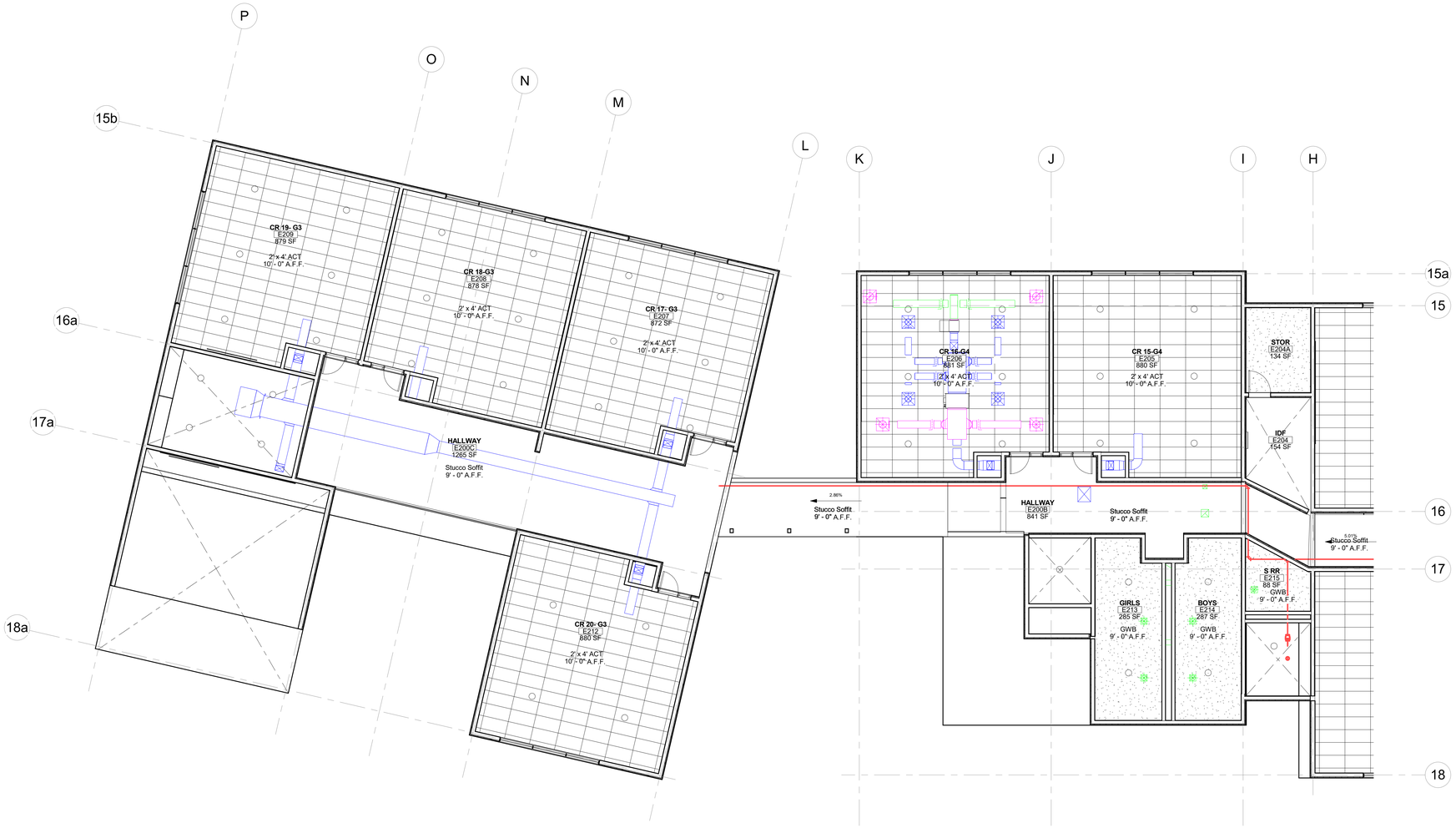


EXIT LIGHT, W/DIRECTIONAL ARROW AS INDICATED

RECESSED LINEAR WALL WASH FIXTURE

SURFACE MOUNTED LINEAR 4' LIGHT FIXTURE

RECESSED INDIRECT LIGHT 1X4 LIGHT FIXTURE

WALL MOUNTED SCONE

WALL MOUNTED UP/ DOWN SCONE

SURFACE MOUNTED DOWNLIGHT

RECESSED DOWNLIGHT

SUSPENDED DIRECT/ INDIRECT LIGHT

SUSPENDED TRACK LIGHT

SUSPENDED STRIP LIGHT

OPEN CEILING

2' X 4' SUSPENDED ACOUSTICAL CEILING TILES

SUSPENDED ACOUSTICAL CEILING TILES, CLOUDS

CEILING EXHAUST DIFFUSER

CEILING SUPPLY AIR DIFFUSER

CEILING RETURN AIR DIFFUSER

2X4 RECESSED FLUORESCENT

PLASTER CEILING

GYP. BOARD CEILING

CUSTOM CNC ROUTED DECORATIVE PLYWOOD CEILING W/ T-BAR MOUNTING

SUSPENDED FLUORESCENT

**BLDG E1, E2- SECOND RCP** | 1/8" = 1'-0" | 1 | **RCP LEGEND**

8/22/2017 11:39:22 PM
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**OWNER:** SRCS VENETIA VALLEY K-8

**PROJECT NAME:** CLASSROOM REPLACEMENT AND NEW MPR BUILDING

**CLIENT ADDRESS:** 177 N San Pedro Rd, San Rafael, CA 94903

DESIGN DEVELOPMENT SET

**SEAL:**

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**KEYPLAN:**

**DATE ISSUED:** 08/18/2017
**PROJECT NO:** 2017 - 40104
**SCALE:** As indicated
**SHEET NUMBER:**

**A-14.21**

**SHEET TITLE:**

**SECOND FLR RCP - BLDG E3, E2**

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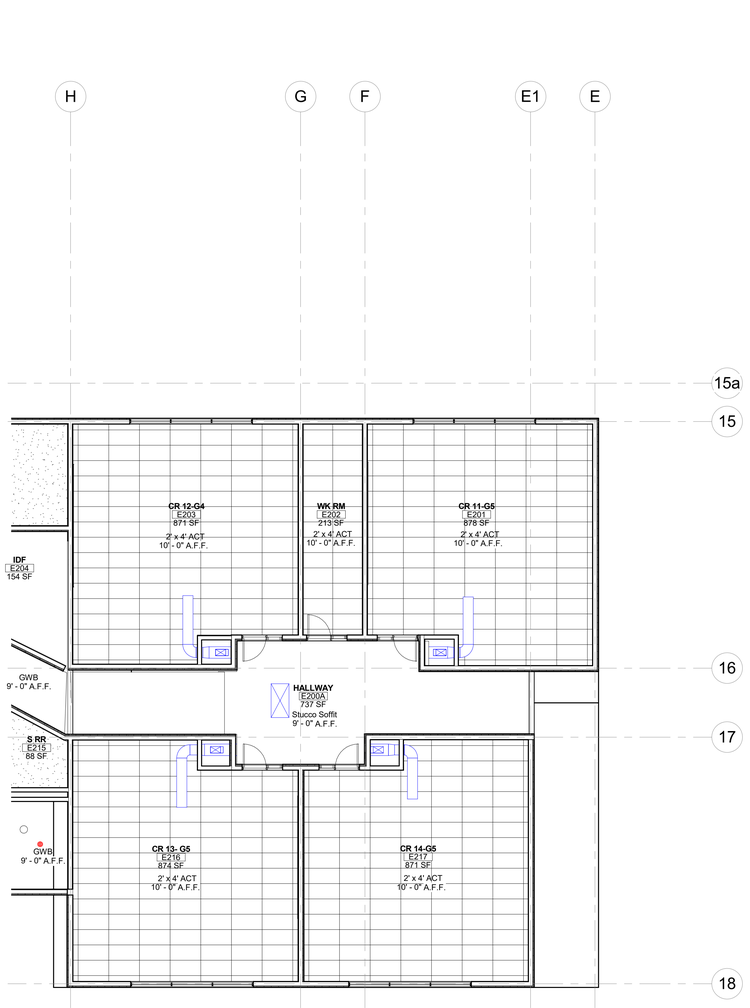


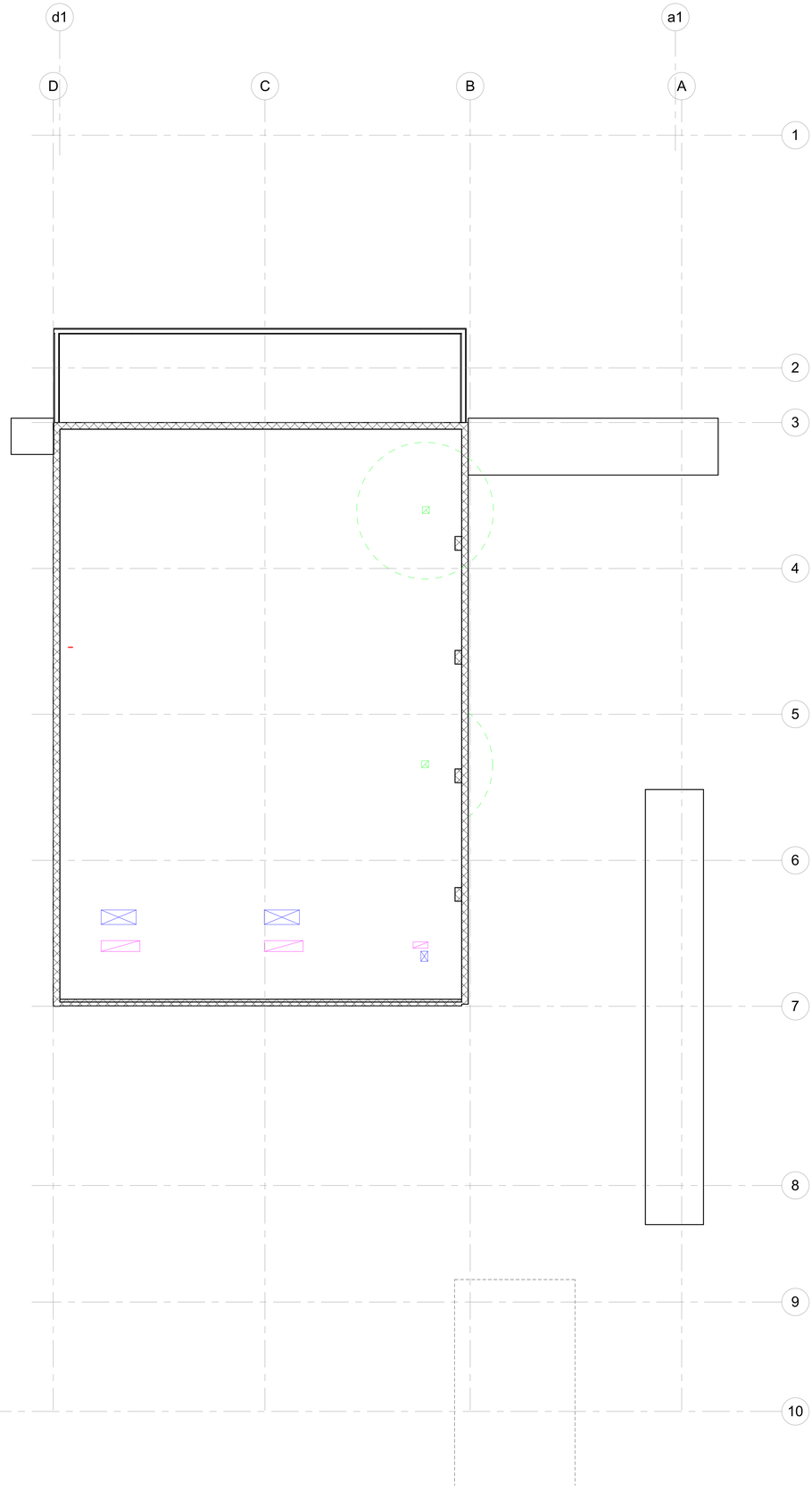


EXIT LIGHT, W/DIRECTIONAL ARROW AS INDICATED

RECESSED LINEAR WALL WASH FIXTURE

SURFACE MOUNTED LINEAR 4' LIGHT FIXTURE

RECESSED INDIRECT LIGHT 1X4 LIGHT FIXTURE

WALL MOUNTED SCONE

WALL MOUNTED UP/ DOWN SCONE

SURFACE MOUNTED DOWNLIGHT

RECESSED DOWNLIGHT

SUSPENDED DIRECT/ INDIRECT LIGHT

SUSPENDED TRACK LIGHT

SUSPENDED STRIP LIGHT

OPEN CEILING

2' X 4' SUSPENDED ACOUSTICAL CEILING TILES

SUSPENDED ACOUSTICAL CEILING TILES, CLOUDS

CEILING EXHAUST DIFFUSER

CEILING SUPPLY AIR DIFFUSER

CEILING RETURN AIR DIFFUSER

2X4 RECESSED FLUORESCENT

PLASTER CEILING

GYP. BOARD CEILING

CUSTOM CNC ROUTED DECORATIVE PLYWOOD CEILING W/ T-BAR MOUNTING

SUSPENDED FLUORESCENT

**BLDG D, E1- SECOND RCP** | 1/8" = 1'-0" | 1 | **RCP LEGEND**

8/22/2017 11:39:23 PM
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**OWNER:** SRCS VENETIA VALLEY K-8

**PROJECT NAME:** CLASSROOM REPLACEMENT AND NEW MPR BUILDING

**CLIENT ADDRESS:** 177 N San Pedro Rd, San Rafael, CA 94903

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**KEYPLAN:**

**DATE ISSUED:** 08/18/2017

**PROJECT NO:** 2017 - 40104

**SCALE:** As indicated

**SHEET NUMBER:**

**A-14.22**

**SHEET TITLE:**

**SECOND FLR RCP - BLDG D, E1**

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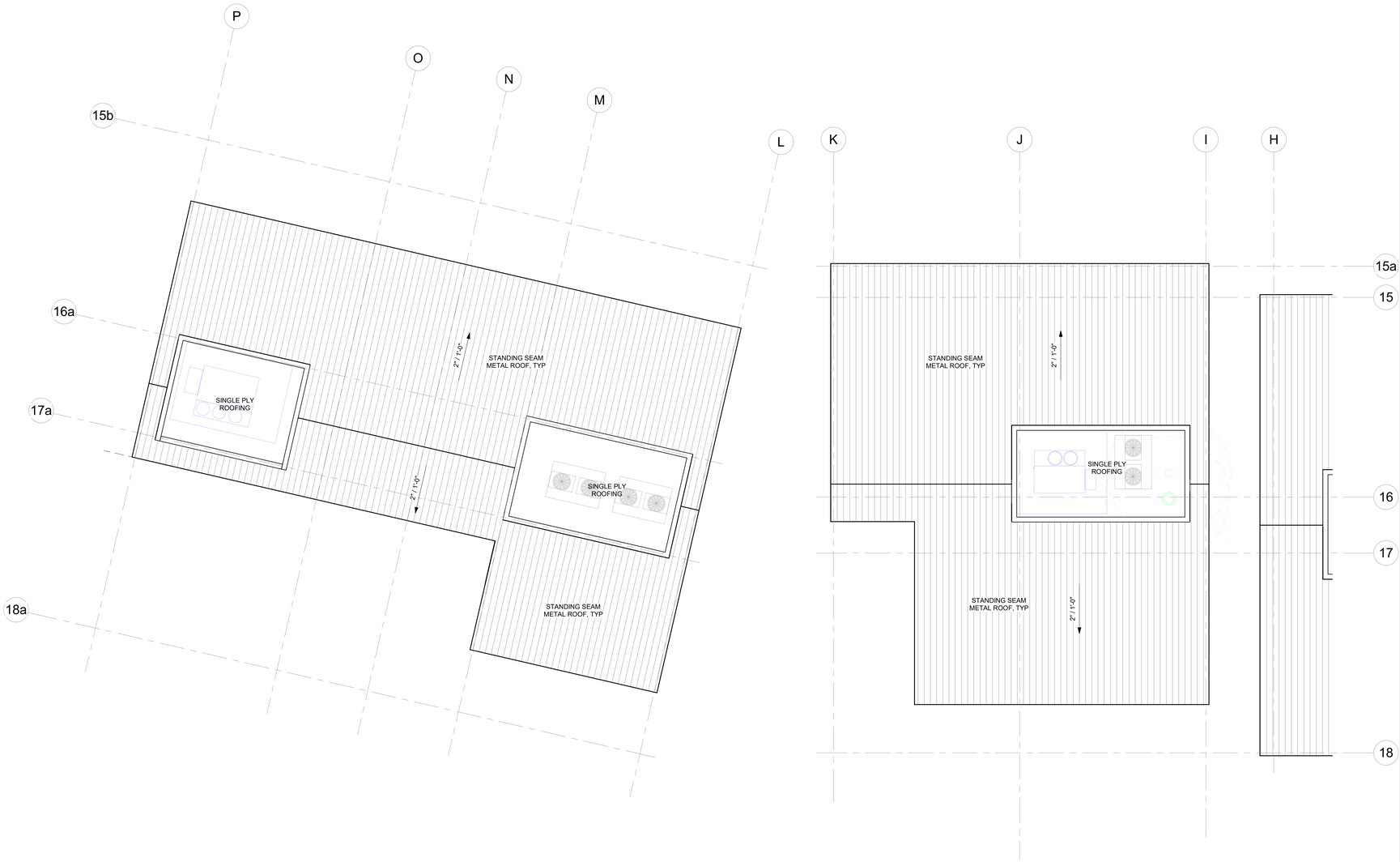


**1 BLDG E2, E3 - ROOF PLAN**
1/8" = 1'-0"

8/22/2017 11:39:24 PM
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**OWNER:** SRCS VENETIA VALLEY K-8

**PROJECT NAME:** CLASSROOM REPLACEMENT AND NEW MPR BUILDING

**CLIENT ADDRESS:** 177 N San Pedro Rd, San Rafael, CA 94903

DESIGN DEVELOPMENT SET

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**KEYPLAN:**

**DATE ISSUED:** 08/18/2017

**PROJECT NO:** 2017 - 40104

**SCALE:** 1/8" = 1'-0"

**SHEET NUMBER:**

**A-15.1**

**SHEET TITLE:**

# ROOF PLAN - BLDG E3, E2

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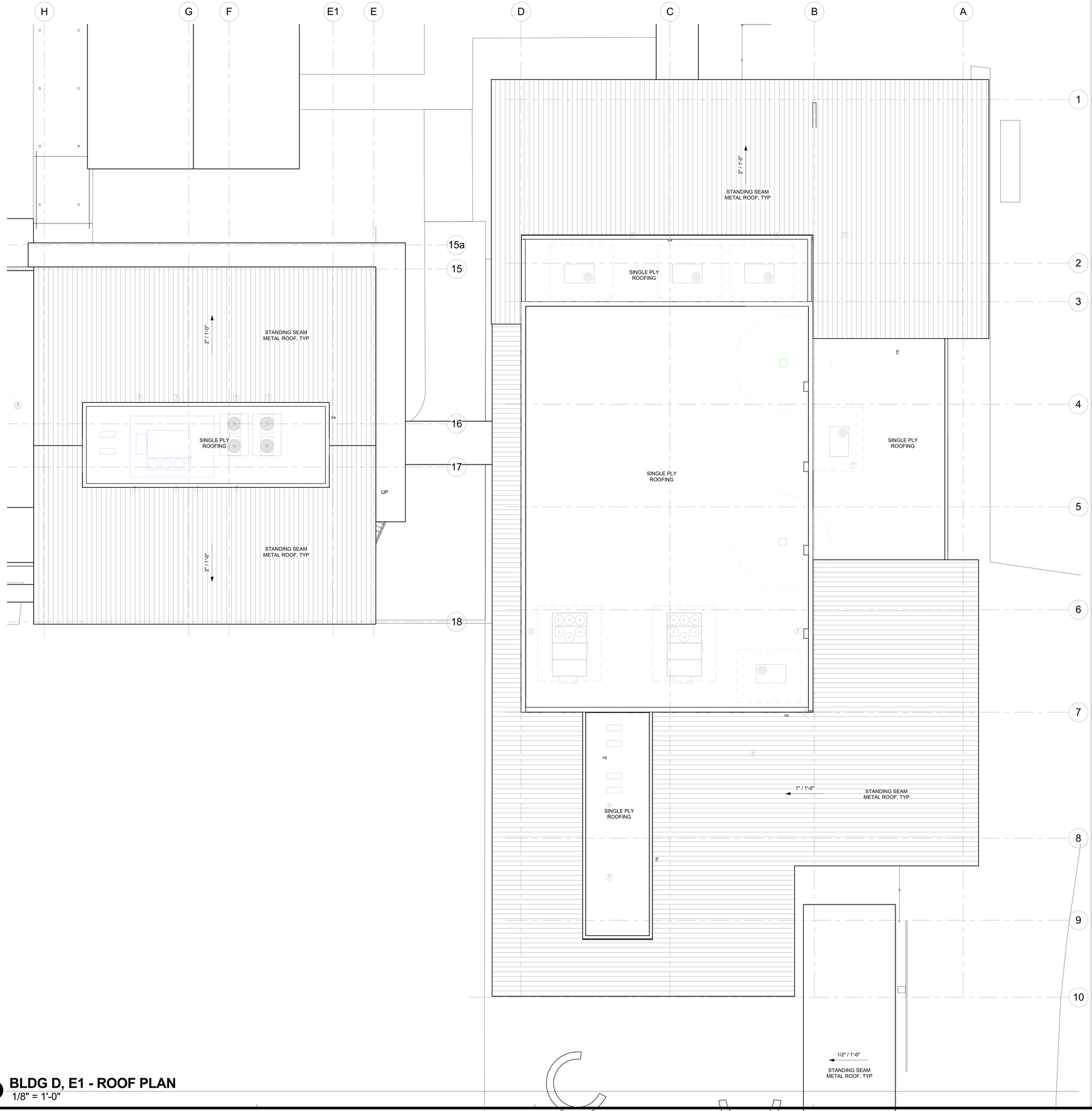


**1** **BLDG D, E1 - ROOF PLAN**
1/8" = 1'-0"

8/22/2017 11:39:25 PM
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**OWNER:** SRCS VENETIA VALLEY K-8

**PROJECT NAME:** CLASSROOM REPLACEMENT AND NEW MPR BUILDING

**CLIENT ADDRESS:** 177 N San Pedro Rd, San Rafael, CA 94903

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**KEYPLAN:**

**DATE ISSUED:** 08/18/2017

**PROJECT NO:** 2017 - 40104

**SCALE:** 1/8" = 1'-0"

**SHEET NUMBER:**

**A-15.2**

**SHEET TITLE:**

# ROOF PLAN - BLDG D, E1

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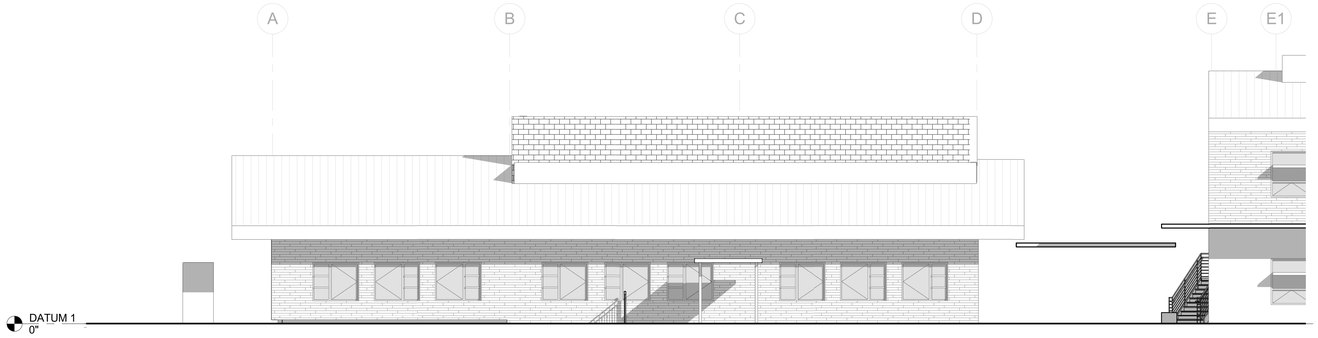
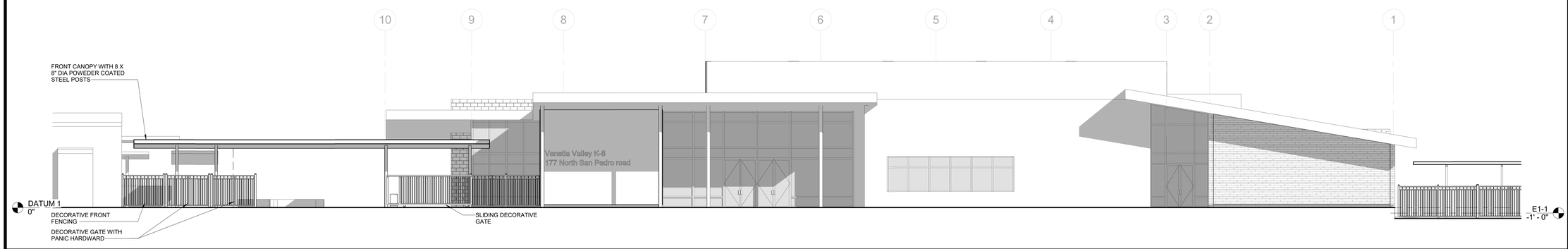
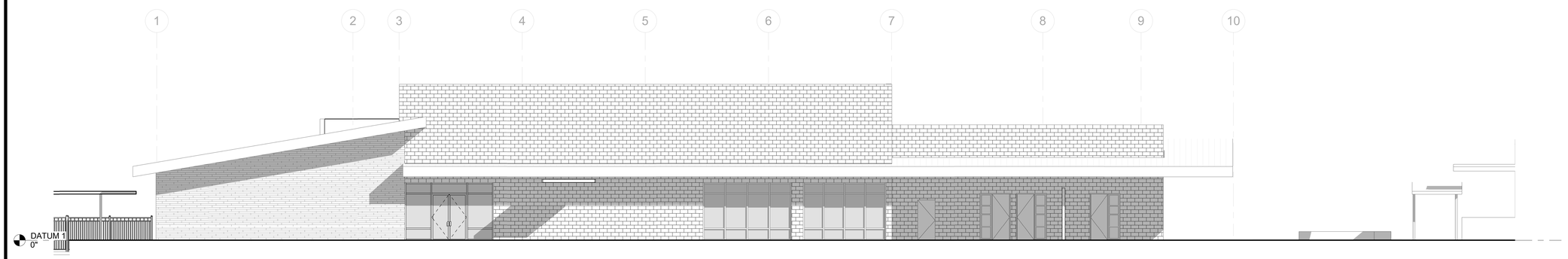


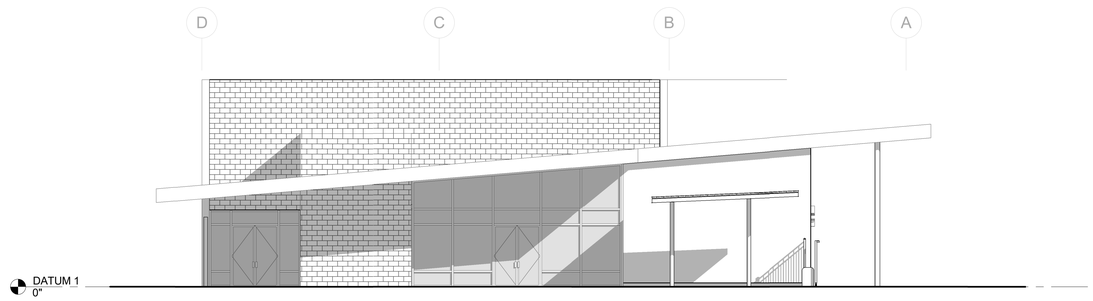

**BLDG D - NORTH ELEVATION** 1/8" = 1'-0" **4**




**BLDG D - EAST ELEVATION** 1/8" = 1'-0" **3**




**BLDG D - SOUTH ELEVATION** 1/8" = 1'-0" **2**




**BLDG D - WEST ELEVATION** 1/8" = 1'-0" **1**

8/22/2017 11:39:28 PM
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**OWNER:** SRCS VENETIA VALLEY K-8

**PROJECT NAME:** CLASSROOM REPLACEMENT AND NEW MPR BUILDING

**CLIENT ADDRESS:** 177 N San Pedro Rd, San Rafael, CA 94903

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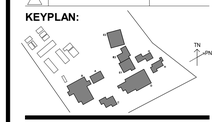
**KEYPLAN:**




**DATE ISSUED:** 08/18/2017

**PROJECT NO:** 2017 - 40104

**SCALE:** 1/8" = 1'-0"

**SHEET NUMBER:**

**A-21.1**

**SHEET TITLE:**

# BUILDING ELEVATIONS- BLDG D

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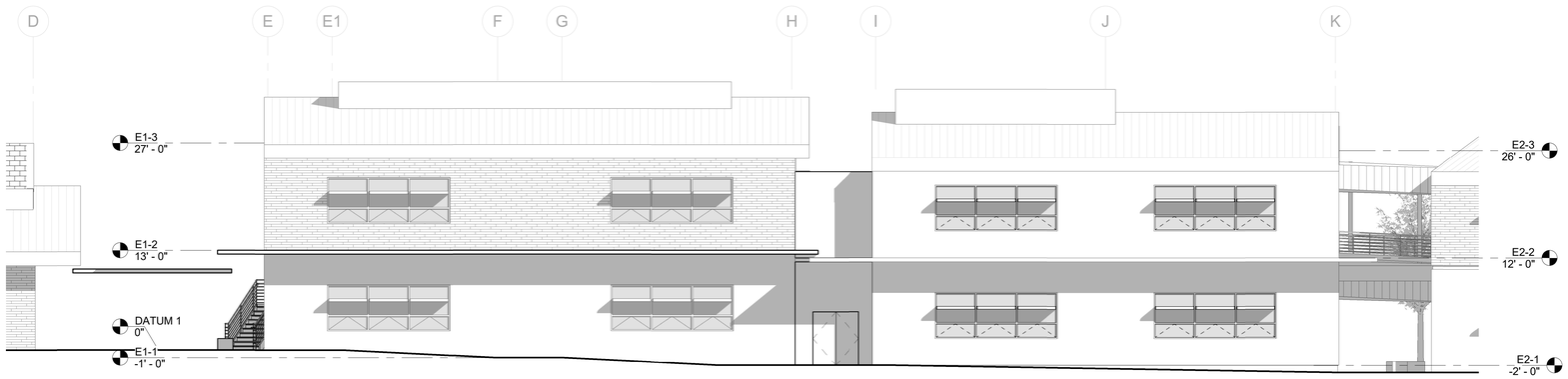
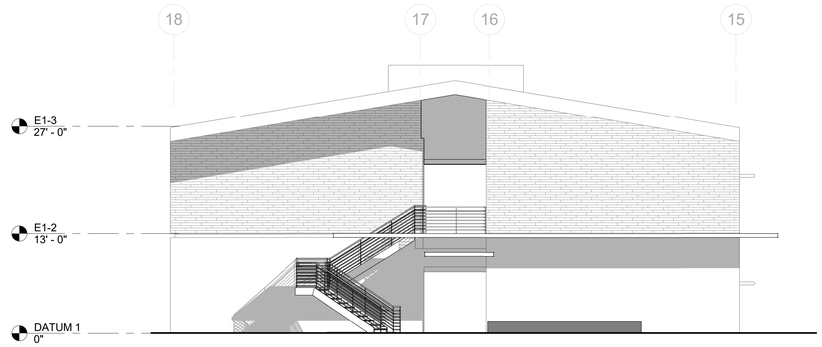
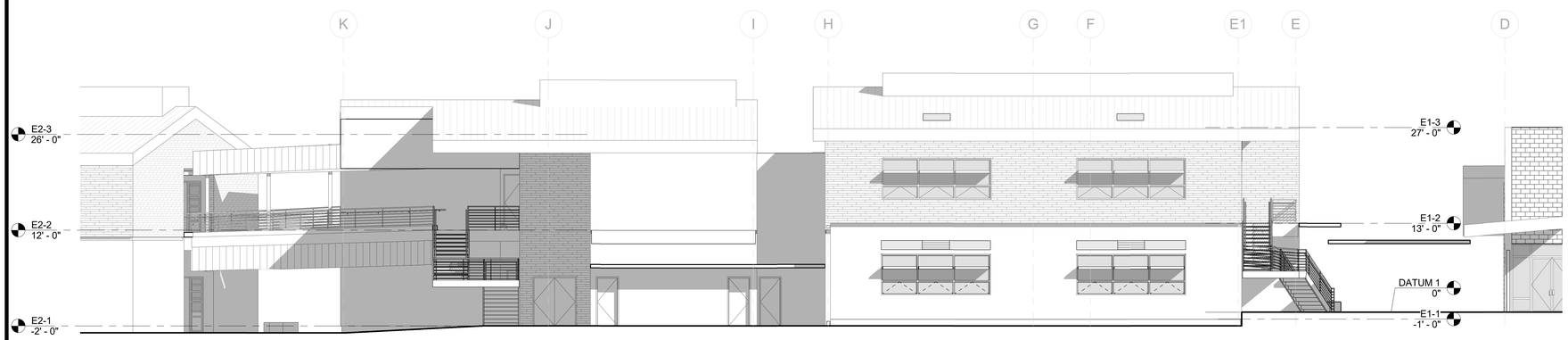


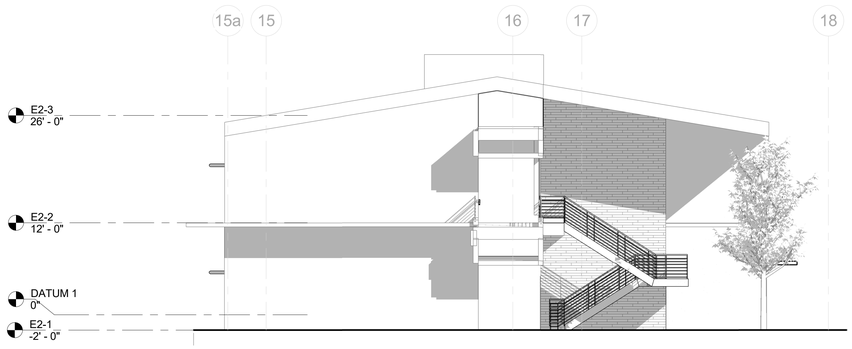

**BLDG E1, E2 - NORTH ELEVATION** 1/8" = 1'-0" **4**




**BLDG E1 - EAST ELEVATION** 1/8" = 1'-0" **3**




**BLDG E1, E2 - SOUTH ELEVATION** 1/8" = 1'-0" **2**




**BLDG E2 - WEST ELEVATION** 1/8" = 1'-0" **1**

8/22/2017 11:39:33 PM
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**PROJECT NAME:** CLASSROOM REPLACEMENT AND NEW MPR BUILDING

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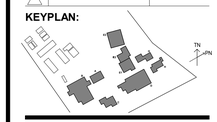
**KEYPLAN:**




**DATE ISSUED:** 08/18/2017

**PROJECT NO:** 2017 - 40104

**SCALE:** 1/8" = 1'-0"

**SHEET NUMBER:**

**A-21.2**

**SHEET TITLE:**

**BUILDING ELEVATIONS -BLDG E1, E2**

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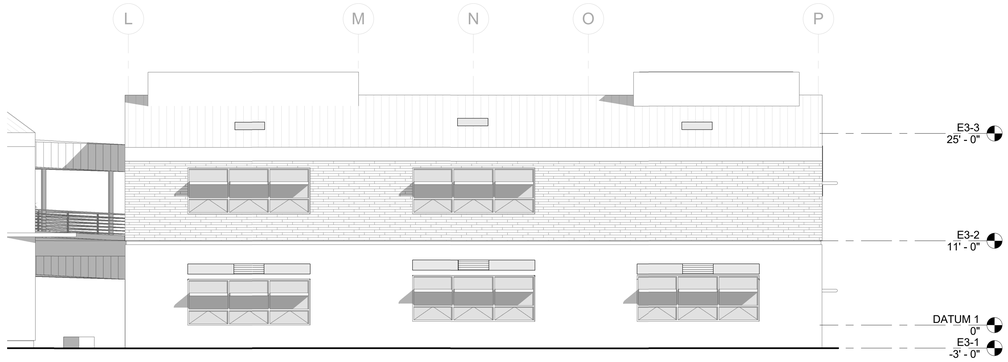
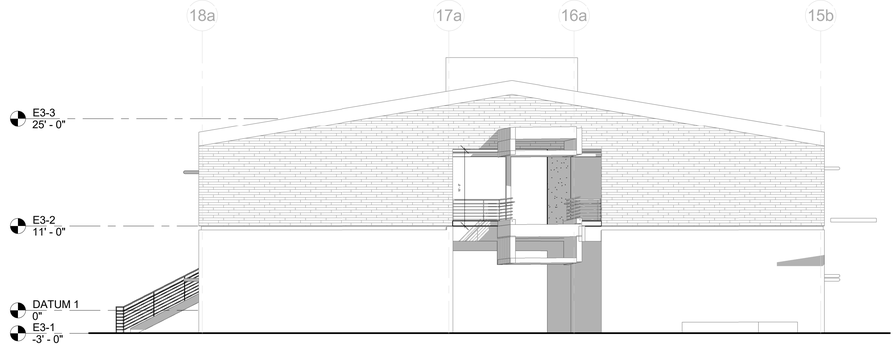
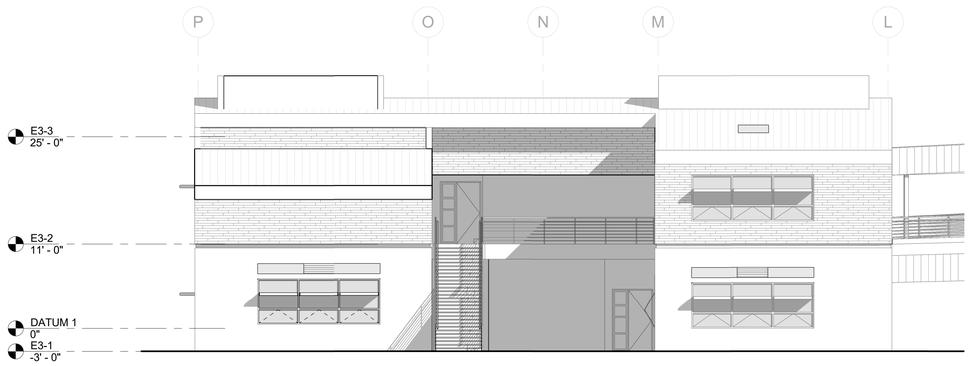


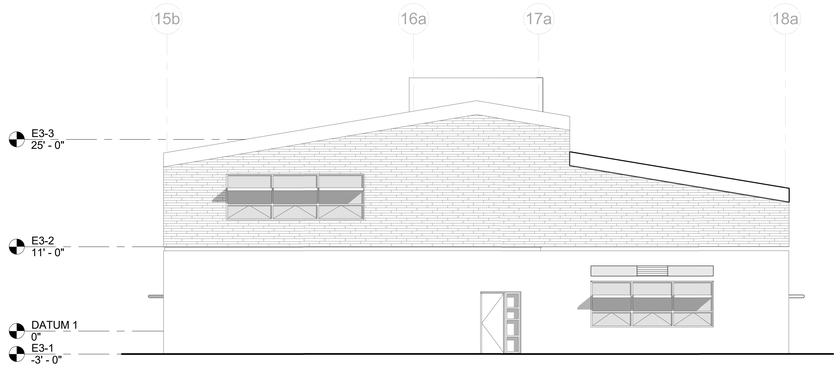

**BLDG E3 - NORTH ELEVATION** 1/8" = 1'-0" **4**




**BLDG E3 - EAST ELEVATION** 1/8" = 1'-0" **3**




**BLDG E3 - SOUTH ELEVATION** 1/8" = 1'-0" **2**




**BLDG E3 - WEST ELEVATION** 1/8" = 1'-0" **1**

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**PROJECT NAME:** CLASSROOM REPLACEMENT AND NEW MPR BUILDING

**CLIENT ADDRESS:** 177 N San Pedro Rd, San Rafael, CA 94903

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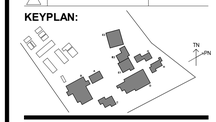


**DATE ISSUED:** 08/18/2017

**PROJECT NO:** 2017 - 40104

**SCALE:** 1/8" = 1'-0"

**SHEET NUMBER:**

**A-21.3**

**SHEET TITLE:**

**BUILDING ELEVATIONS -BLDG E3**

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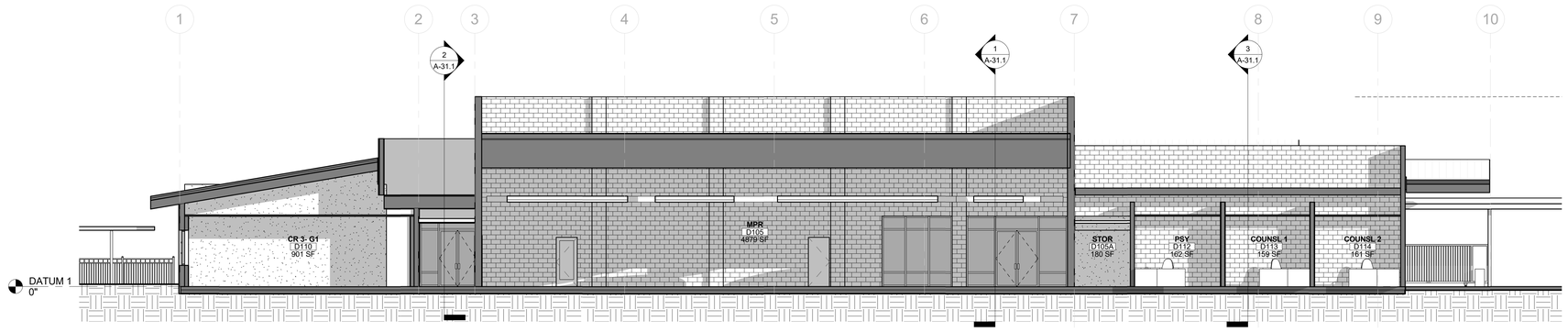
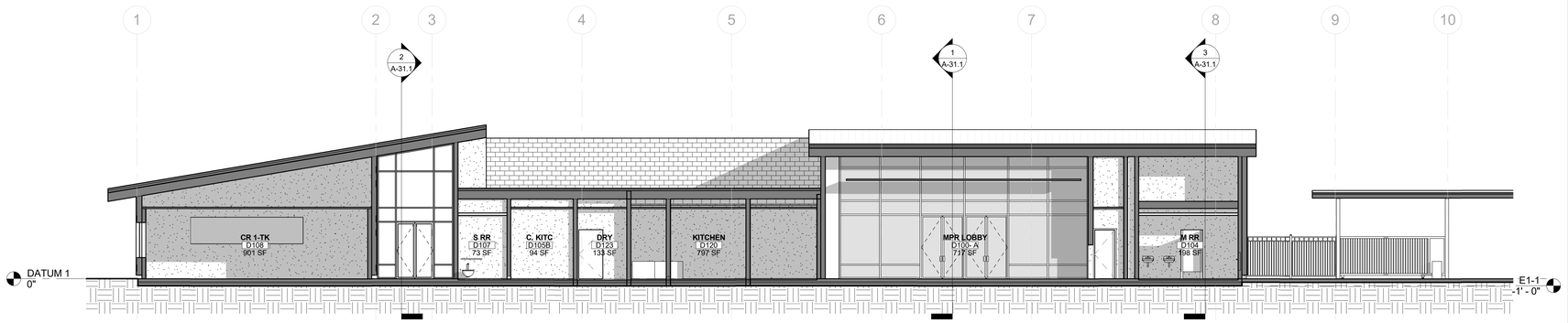
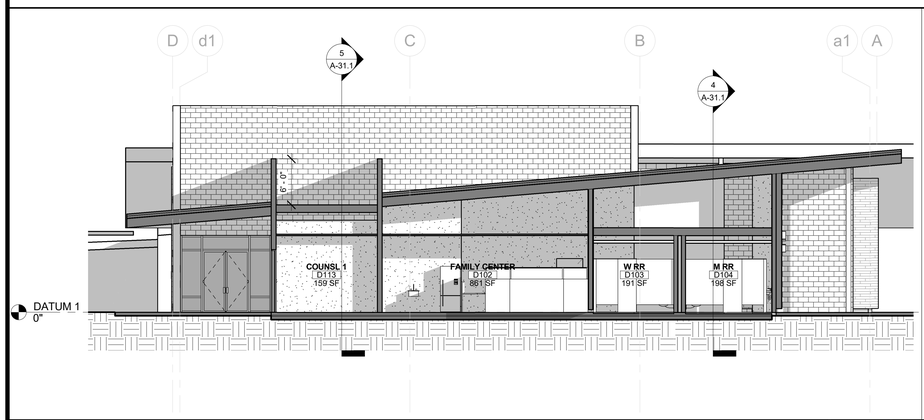


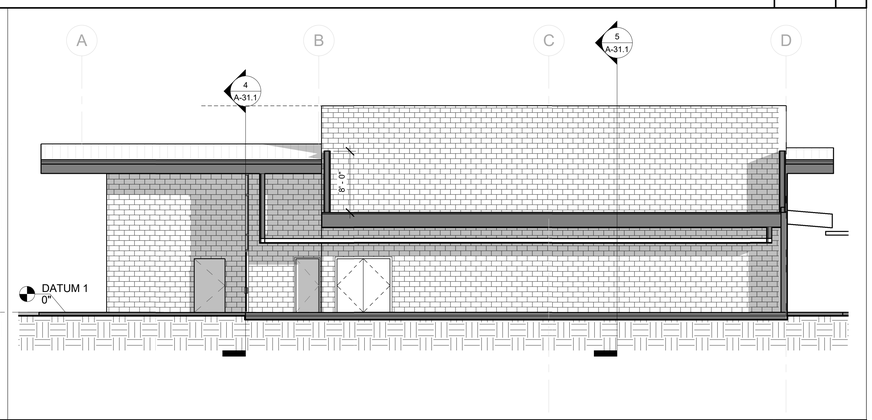

**BUILDING D- LONGITUDINAL SECTION 1** | 1/8" = 1'-0" | **5**



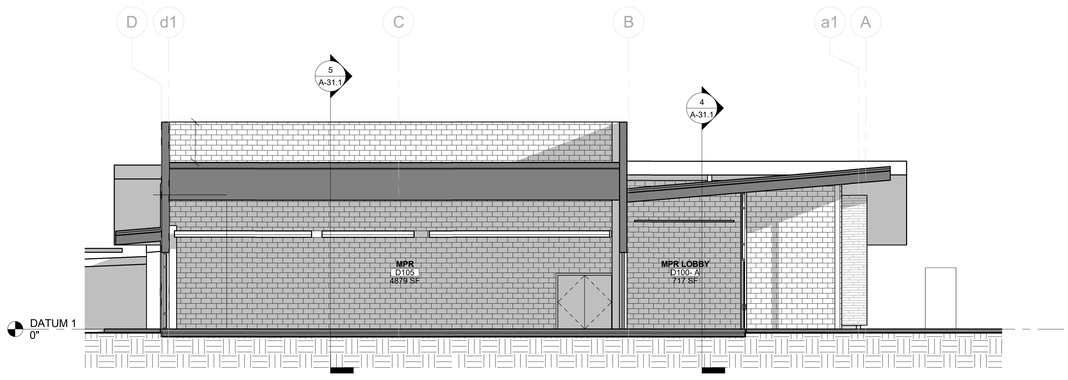

**BUILDING D- LONGITUDINAL SECTION 2** | 1/8" = 1'-0" | **4**




**BUILDING D - CROSS SECTION 1** | 1/8" = 1'-0" | **3**




**BUILDING D - CROSS SECTION 3** | 1/8" = 1'-0" | **2**




**BUILDING D - CROSS SECTION 2** | 1/8" = 1'-0" | **1**

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**OWNER:** SRCS VENETIA VALLEY K-8

**PROJECT NAME:** CLASSROOM REPLACEMENT AND NEW MPR BUILDING

**CLIENT ADDRESS:** 177 N San Pedro Rd, San Rafael, CA 94903

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**KEYPLAN:**

**DATE ISSUED:** 08/18/2017
**PROJECT NO:** 2017 - 40104
**SCALE:** 1/8" = 1'-0"
**SHEET NUMBER:**

**A-31.1**

**SHEET TITLE:**

# BUILDING SECTIONS - BLDG D

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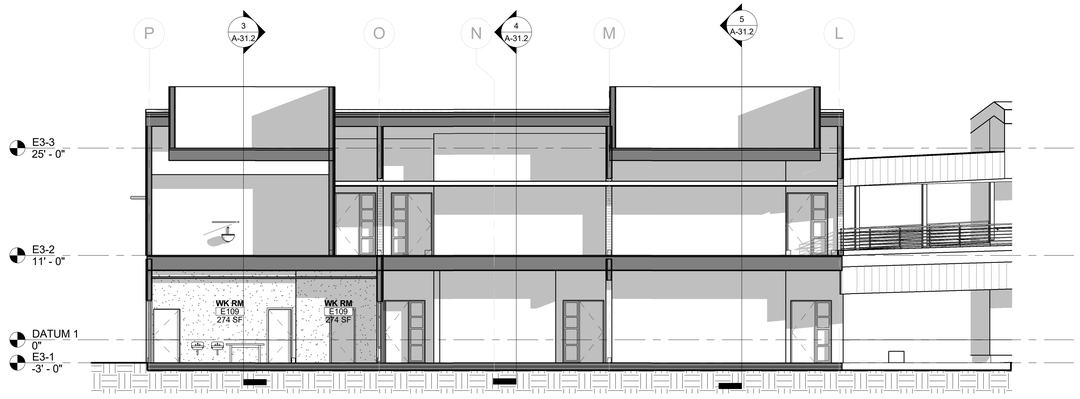
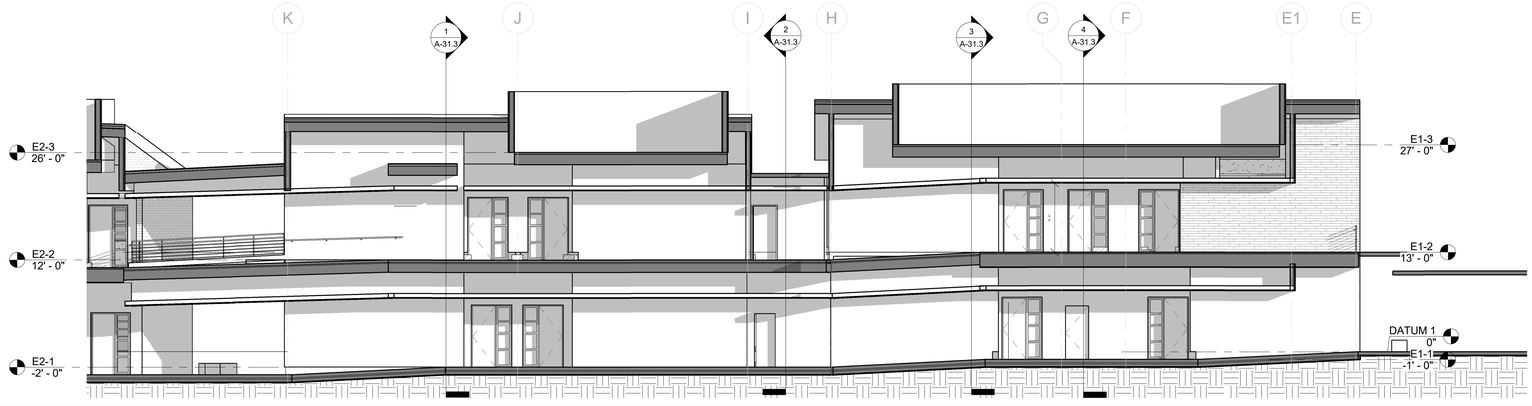
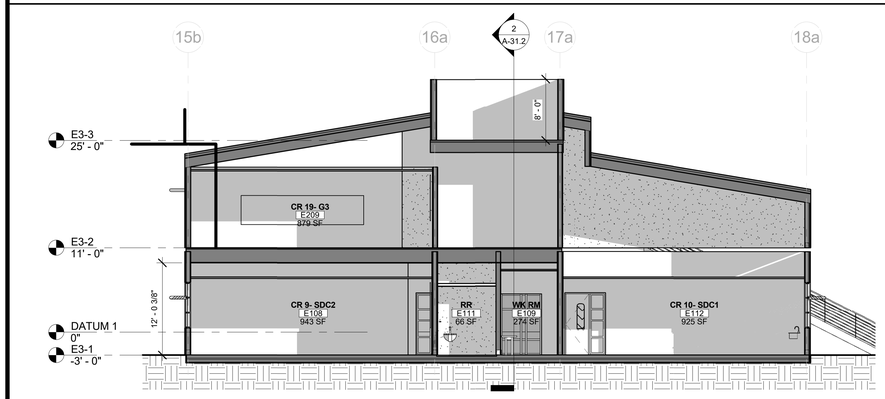


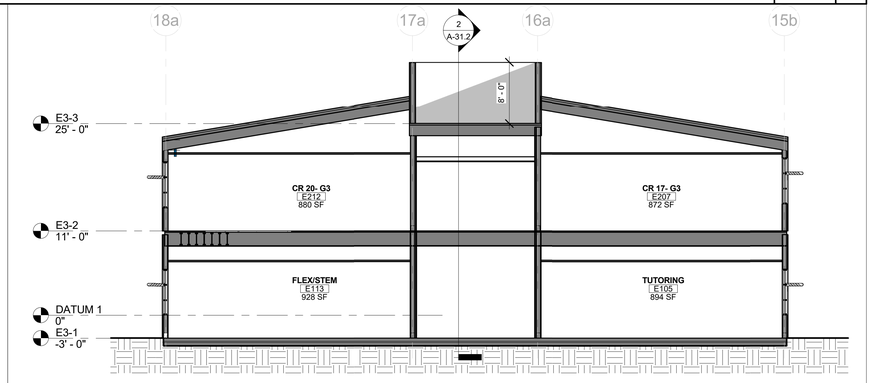

**LONGITUDINAL BUILDING SECTION- BLDG E3** | 1/8" = 1'-0" | **2**



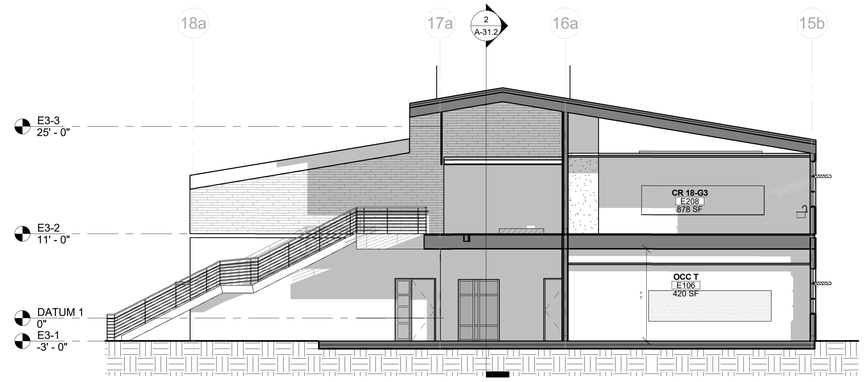

**LONGITUDINAL BUILDING SECTION- BLDG E2, E1** | 1/8" = 1'-0" | **1**




**BLDG E3 - CROSS SECTION 1** | 1/8" = 1'-0" | **3**




**BLDG E3 - CROSS SECTION 3** | 1/8" = 1'-0" | **5**




**BLDG E3 - CROSS SECTION 2** | 1/8" = 1'-0" | **4**

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**OWNER:** SRCS VENETIA VALLEY K-8

**PROJECT NAME:** CLASSROOM REPLACEMENT AND NEW MPR BUILDING

**CLIENT ADDRESS:** 177 N San Pedro Rd, San Rafael, CA 94903

DESIGN DEVELOPMENT SET

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**KEYPLAN:**

**DATE ISSUED:** 08/18/2017

**PROJECT NO:** 2017 - 40104

**SCALE:** 1/8" = 1'-0"

**SHEET NUMBER:**

**A-31.2**

**SHEET TITLE:**

**BUILDING SECTION- BLDG E**

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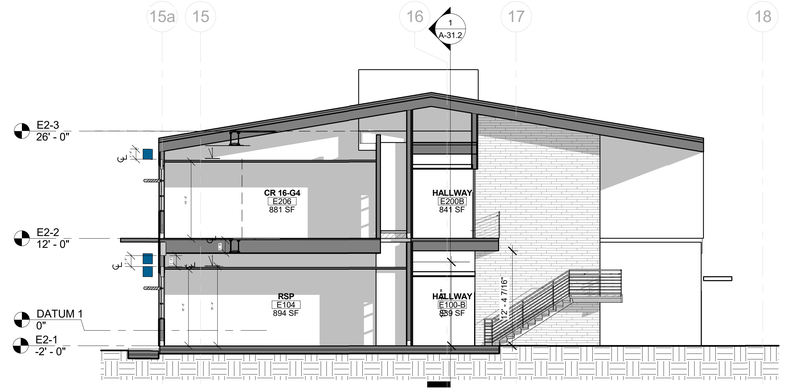
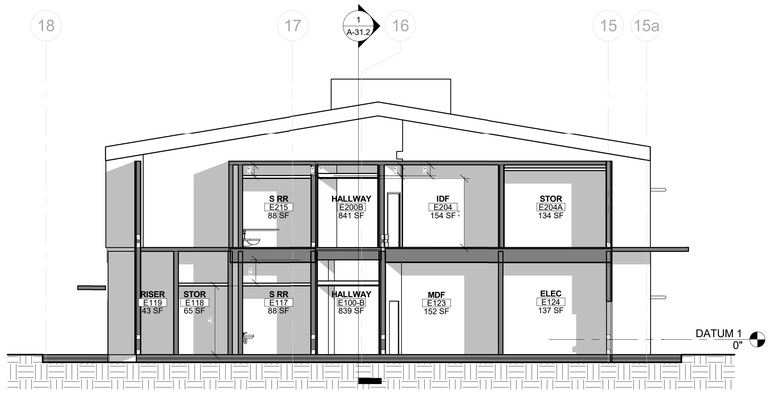
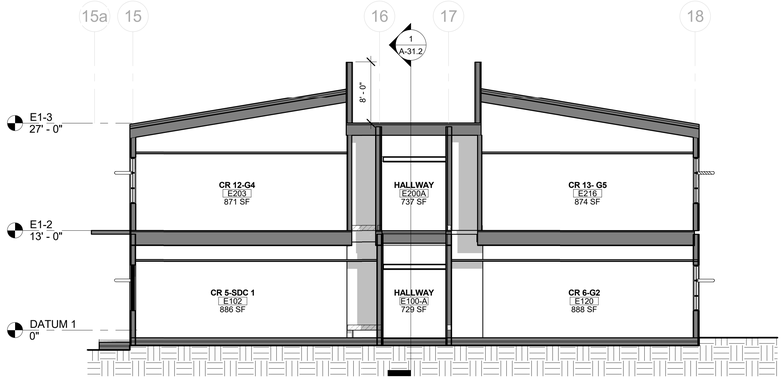


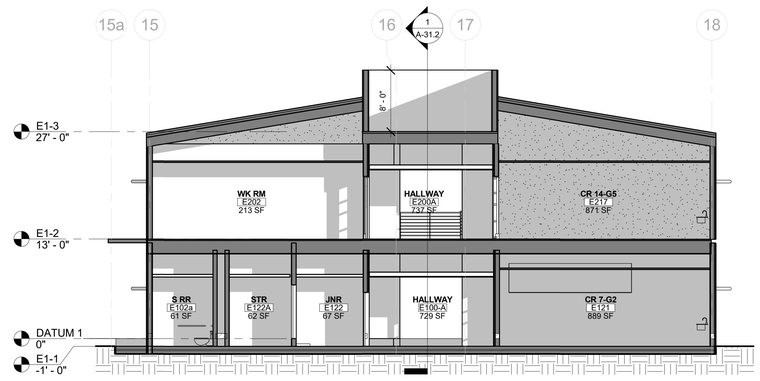

**BLDG E2- CROSS SECTION 4** | 1/8" = 1'-0" | **1**




**BLDG E2 - CROSS SECTION 5** | 1/8" = 1'-0" | **2**




**BLDG E1 - CROSS SECTION 6** | 1/8" = 1'-0" | **3**




**BLDG E1 - CROSS SECTION 7** | 1/8" = 1'-0" | **4**

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**KEYPLAN:**

**DATE ISSUED:** 08/18/2017

**PROJECT NO:** 2017 - 40104

**SCALE:** 1/8" = 1'-0"

**SHEET NUMBER:**

**A-31.3**

**SHEET TITLE:**

# BUILDING SECTIONS- BLDG E

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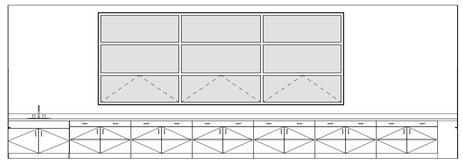
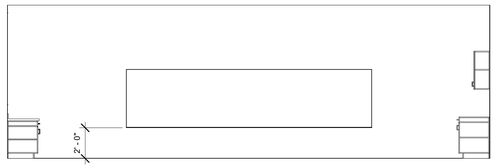
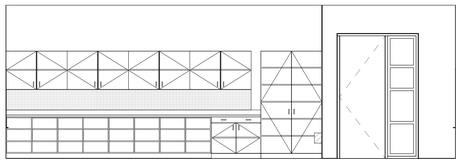


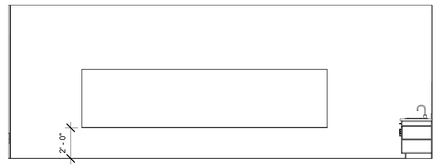
CR 4-G1, E101 NORTH INT ELEV | 1/4" = 1'-0" | 5



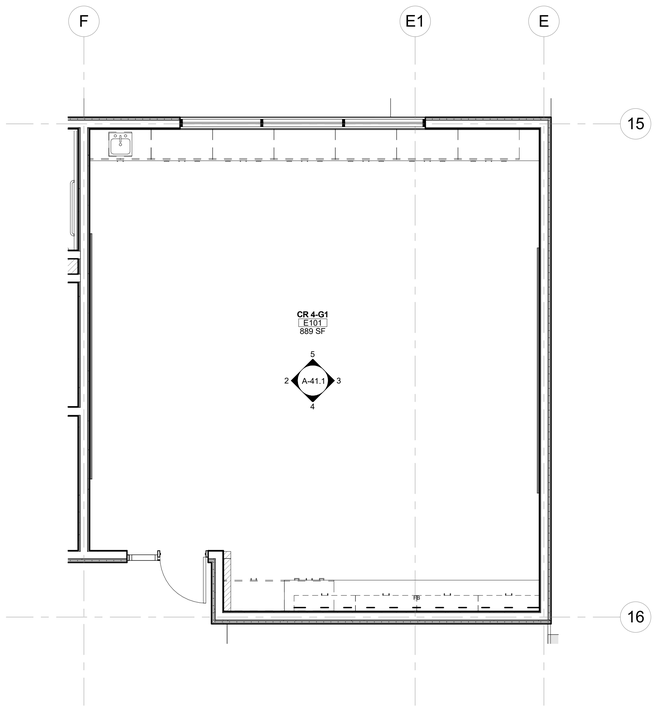

CR 4-G1, E101 EAST INT ELEV | 1/4" = 1'-0" | 3



CR 4-G1, E101 SOUTH INT ELEV | 1/4" = 1'-0" | 4




CR 4-G1, E101 WEST INT ELEV | 1/4" = 1'-0" | 2




TYP. CLASSROOM - ENLR PLAN | 1/4" = 1'-0" | 1

8/22/2017 11:39:50 PM
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**OWNER:** SRCS VENETIA VALLEY K-8

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**CLIENT ADDRESS:** 177 N San Pedro Rd, San Rafael, CA 94903

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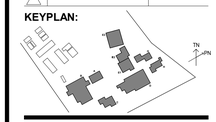
**KEYPLAN:**




**DATE ISSUED:** 08/18/2017

**PROJECT NO:** 2017 - 40104

**SCALE:** 1/4" = 1'-0"

**SHEET NUMBER:**

**A-41.1**

**SHEET TITLE:**

# ENLARGED PLANS- TYP CLASSROOMS

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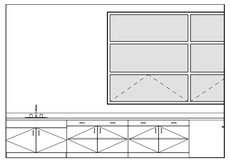
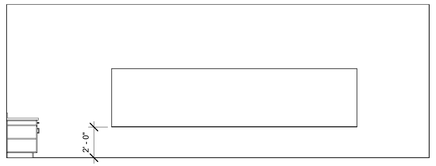
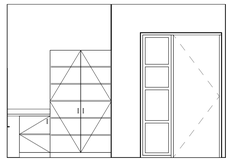


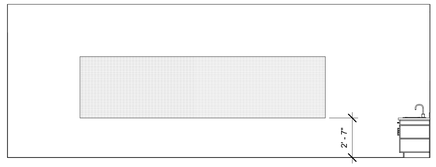
SPEECH, E107 NORTH INT ELEV | 1/4" = 1'-0" | 2



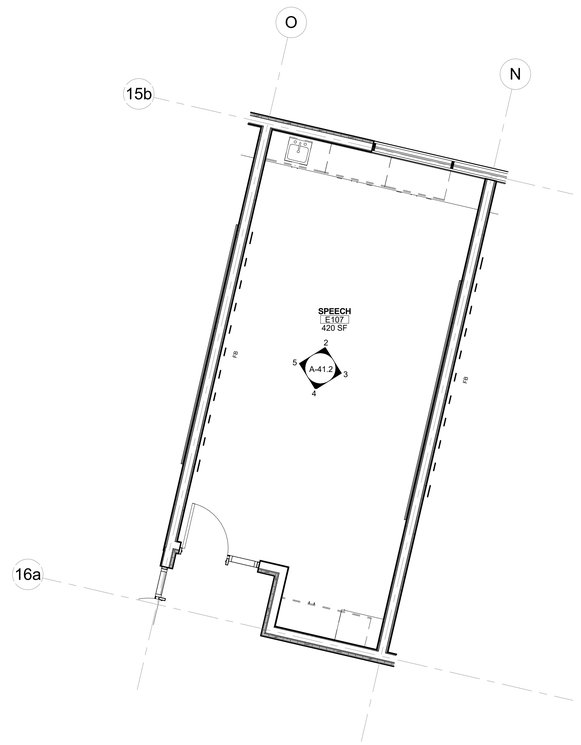

SPEECH, E107 EAST INT ELEV | 1/4" = 1'-0" | 3



SPEECH, E107 SOUTH INT ELEV | 1/4" = 1'-0" | 4




SPEECH, E107 WEST INT ELEV | 1/4" = 1'-0" | 5




SPEECH, E107 ENLR PLAN | 1/4" = 1'-0" | 1

8/22/2017 11:39:52 PM
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**CLIENT ADDRESS:** 177 N San Pedro Rd, San Rafael, CA 94903

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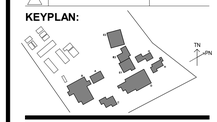


**DATE ISSUED:** 08/18/2017

**PROJECT NO:** 2017 - 40104

**SCALE:** 1/4" = 1'-0"

**SHEET NUMBER:**

**A-41.2**

**SHEET TITLE:**

# ENLARGED PLAN- TYPICAL ROOMS

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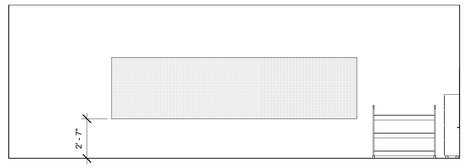
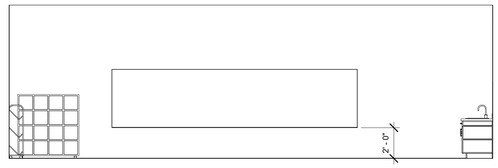
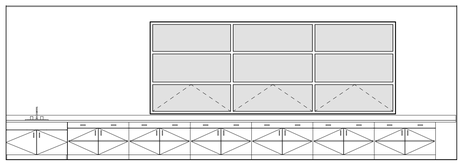


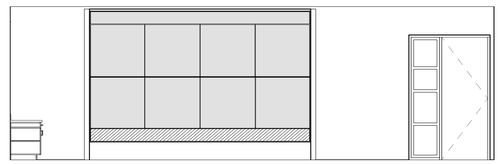

FLEX/STEM, E113 NORTH INT ELEV | 1/4" = 1'-0" | 2



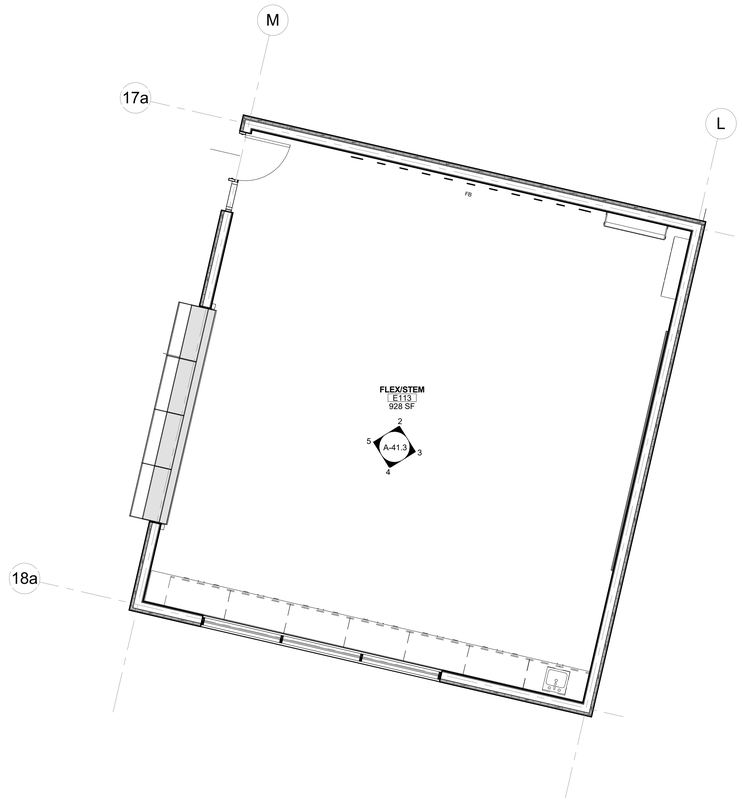

FLEX/STEM, E113 EAST INT ELEV | 1/4" = 1'-0" | 3



FLEX/STEM, E113 SOUTH INT ELEV | 1/4" = 1'-0" | 4



FLEX/STEM, E113 WEST INT ELEV | 1/4" = 1'-0" | 5




FLEX/STEM, E113 ENLR PLAN | 1/4" = 1'-0" | 1

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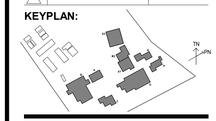
**KEYPLAN:**




**DATE ISSUED:** 08/18/2017

**PROJECT NO:** 2017 - 40104

**SCALE:** 1/4" = 1'-0"

**SHEET NUMBER:**

**A-41.3**

**SHEET TITLE:**

**ENLARGED ROOMS - FLEX/STEM**

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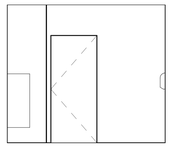
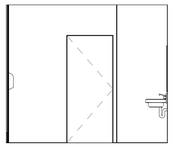
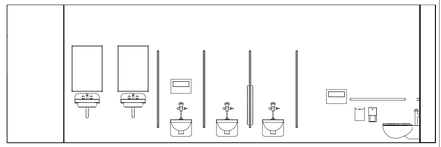


BOYS, E116 NORTH | 1/4" = 1'-0" | 9

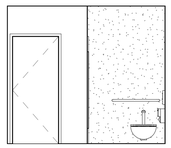
BOYS, E116 EAST | 1/4" = 1'-0" | 7



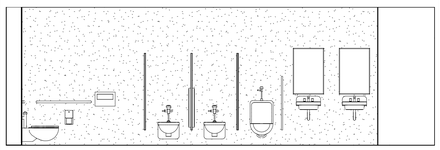
GIRLS, E115 NORTH | 1/4" = 1'-0" | 5



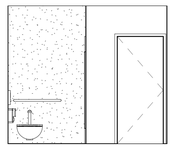
GIRLS, E115 EAST | 1/4" = 1'-0" | 3



BOYS, E116 SOUTH | 1/4" = 1'-0" | 8

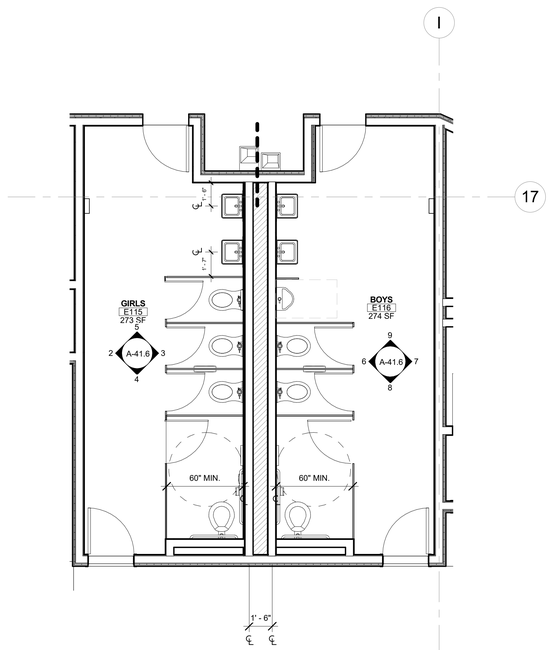


BOYS, E116 WEST | 1/4" = 1'-0" | 6



GIRLS, E115 SOUTH | 1/4" = 1'-0" | 4

GIRLS, E115 WEST | 1/4" = 1'-0" | 2




RESTROOMS, BLDG E2-1 | 1/4" = 1'-0" | 1

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OFFICE OF REGULATION SERVICES

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DATE _____

**REVISIONS:**

| | DESCRIPTION | DATE |
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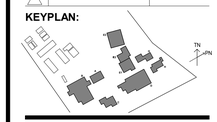
**KEYPLAN:**




**DATE ISSUED:** 08/18/2017

**PROJECT NO:** 2017 - 40104

**SCALE:** 1/4" = 1'-0"

**SHEET NUMBER:**

# A-41.6

**SHEET TITLE:**

# ENLARGED PLANS- RESTROOMS

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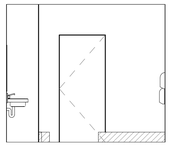
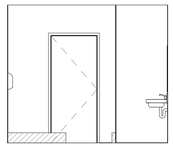
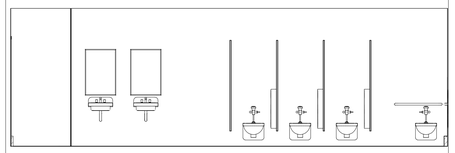


| BOYS, E214 NORTH | 1/4" = 1'-0" | 9 |
|---|---|---|

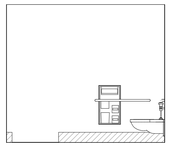
| BOYS, E214 EAST | 1/4" = 1'-0" | 7 |
|---|---|---|



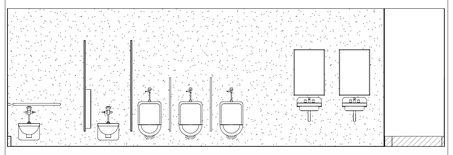
| GIRLS, E213 NORTH | 1/4" = 1'-0" | 5 |
|---|---|---|



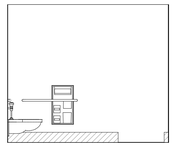
| GIRLS, E213 EAST | 1/4" = 1'-0" | 3 |
|---|---|---|



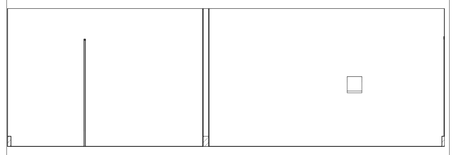
| BOYS, E214 SOUTH | 1/4" = 1'-0" | 8 |
|---|---|---|



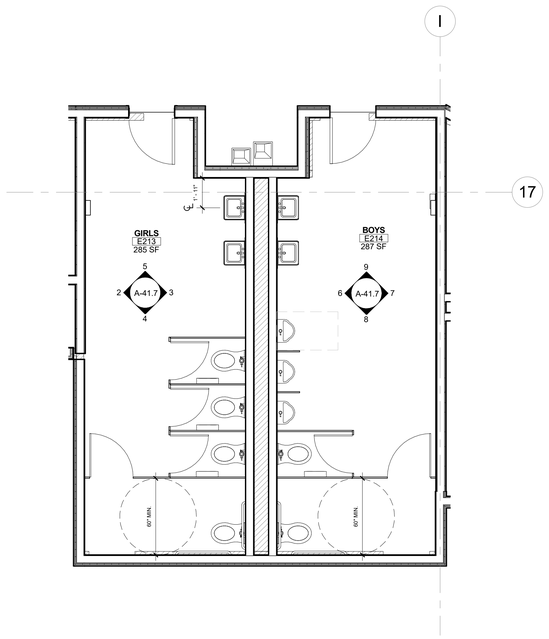
| BOYS, E2114 WEST | 1/4" = 1'-0" | 6 |
|---|---|---|



| GIRLS, E213 SOUTH | 1/4" = 1'-0" | 4 |
|---|---|---|



| GIRLS, E213 WEST | 1/4" = 1'-0" | 2 |
|---|---|---|




| RESTROOMS, BLDG E2-2 | 1/4" = 1'-0" | 1 |
|---|---|---|

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**OWNER:** SRCS VENETIA VALLEY K-8

**PROJECT NAME:** CLASSROOM REPLACEMENT AND NEW MPR BUILDING

**CLIENT ADDRESS:** 177 N San Pedro Rd, San Rafael, CA 94903

DESIGN DEVELOPMENT SET

**SEAL:**

IDENTIFICATION STAMP
DIVISION OF THE STATE ARCHITECT
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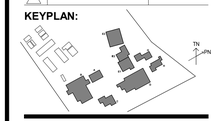
**KEYPLAN:**




**DATE ISSUED:** 08/18/2017

**PROJECT NO:** 2017 - 40104

**SCALE:** 1/4" = 1'-0"

**SHEET NUMBER:**

# A-41.7

**SHEET TITLE:**

## ENLARGED PLANS - RESTROOMS

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## ROOM FINISH SCHEDULE

| ROOM # | ROOM NAME | SPACE DESCRIPTION | FLOOR FINISH | FLOOR BASE | WALL FINISH | CEILING FINISH | COMMENTS |
|---|---|---|---|---|---|---|---|
| D100- A | MPR LOBBY | ASSEMBLY | SS-CONC | RB | GYP/P-E, FB | WD-1 | FB 4'X10' |
| D101 | JNR | BUILDING SUPPORT | SS-CONC | RB | GYP/P-SG, FRP | GB P-SG | |
| D102 | FAMILY CENTER | OFFICE | CPT,RSF | RB | GYP/P-E | ACT-1 | FB 3'-6""X16' |
| D102A | OFF | OFFICE | CPT | RB | GYP/P-E | ACT-1 | |
| D103 | W RR | RESTROOM | CT | CT | GYP/P-SG, CT | GB P-SG | |
| D104 | M RR | RESTROOM | CT | CT | GYP/P-SG, CT | GB P-SG | |
| D105 | MPR | ASSEMBLY | SS-CONC | RB | GYP/P-E, AP | ACT-2 | |
| D105A | STOR | STORAGE | SS-CONC | RB | GYP/P-SG, FRP | GB P-SG | |
| D105B | C. KITC | KITCHEN | S-CONC | RB | GYP/P-E | ACT-1 | |
| D107 | S RR | RESTROOM | CT | CT | GYP/P-SG, CT | GYP P-SG | |
| D108 | CR 1-TK | CLASSROOM | RSF | RB | GYP/P-E | ACT-1 | |
| D109 | CR 2- G1 | CLASSROOM | RSF | RB | GYP/P-E | ACT-1 | |
| D110 | CR 3- G1 | CLASSROOM | RSF | RB | GYP/P-E | ACT-1 | |
| D111 | F SR | BUILDING SUPPORT | SS-CONC | RB | GYP/P-SG, FRP | GB P-SG | |
| D112 | PSY | OFFICE | CPT | RB | GYP/P-E, FB | ACT-1 | FB 4'X6' TYPICAL FOR ALL OFFICES |
| D113 | COUNSL 1 | OFFICE | CPT | RB | GYP/P-E | ACT-1 | |
| D114 | COUNSL 2 | OFFICE | CPT | RB | GYP/P-E | ACT-1 | |
| D120 | KITCHEN | KITCHEN | QT | RB | GYP/P-E, FB | ACT-1 | FB 4'X10' |
| D121 | ELEC | BUILDING SUPPORT | S-CONC | RB | GYP/P-E | ACT-1 | |
| D122 | LKR | KITCHEN | QT | RB | GYP/P-E | ACT-1 | |
| D123 | DRY | KITCHEN | S-CONC | RB | GYP/P-E | ACT-1 | |
| D 100-B | HALLWAY | BREEZEWAY | SS-CONC | SS | PLAST | PLAST | |
| E1 | ELEV | BUILDING SUPPORT | RSF | RB | GYP/P-E | ACT-1 | |
| E3A | ROOF WELL | | | | | | |
| E3B | ROOF WELL | | | | | | |
| E3C | Room | | | | | | |
| E4 | Room | | | | | | |
| E100-A | HALLWAY | BREEZEWAY | SS-CONC | SS | PLAST | PLAST | |
| E100-B | HALLWAY | BREEZEWAY | SS-CONC | SS | PLAST | PLAST | |
| E100-C | HALLWAY | BREEZEWAY | SS-CONC | SS | PLAST | PLAST | |
| E101 | CR 4-G1 | CLASSROOM | RSF | RB | GYP/P-E, FB | ACT-1 | FB 1'-4"X16' TYPICAL FOR ALL CLASSROOMS |
| E102 | CR 5-SDC 1 | CLASSROOM | RSF | RB | GYP/P-E | ACT-1 | |
| E102a | S RR | RESTROOM | RSF | RB | GYP/P-E | ACT-1 | |
| E103 | CR 8-G2 | CLASSROOM | RSF | RB | GYP/P-E | ACT-1 | |
| E104 | RSP | CLASSROOM | RSF | RB | GYP/P-E | ACT-1 | |
| E105 | TUTORING | CLASSROOM | RSF | RB | GYP/P-E | ACT-1 | |
| E106 | OCC T | CLASSROOM | RSF | RB | GYP/P-E | ACT-1 | |
| E107 | SPEECH | CLASSROOM | RSF | RB | GYP/P-E, FB | ACT-1 | FB 4'X16' |
| E108 | CR 9- SDC2 | CLASSROOM | RSF | RB | GYP/P-E | ACT-1 | |
| E109 | WK RM | OFFICE | RSF | RB | GYP/P-E | ACT-1 | |
| E110 | RR | RESTROOM | CT | CT | GYP/P-SG, CT | GB P-SG | |
| E111 | RR | RESTROOM | RSF | RB | GYP/P-E | ACT-1 | |
| E112 | CR 10- SDC1 | CLASSROOM | RSF | RB | GYP/P-E | ACT-1 | |
| E113 | FLEX/STEM | CLASSROOM | RSF | RB | GYP/P-E, FB | ACT-1 | FB 4'X16' |
| E114 | ELEV RM | BUILDING SUPPORT | SC | RB | GYP/P-E | - | |
| E115 | GIRLS | RESTROOM | CT | CT | GYP/P-SG, CT | GB P-SG | |
| E116 | BOYS | RESTROOM | CT | CT | GYP/P-SG, CT | GB P-SG | |
| E117 | S RR | RESTROOM | CT | CT | GYP/P-SG, CT | GB P-SG | |
| E118 | STOR | STORAGE | RSF | RB | GYP/P-E | ACT-1 | |
| E119 | RISER | BUILDING SUPPORT | RSF | RB | GYP/P-E | ACT-1 | |
| E120 | CR 6-G2 | CLASSROOM | RSF | RB | GYP/P-E | ACT-1 | |
| E121 | CR 7-G2 | CLASSROOM | RSF | RB | GYP/P-E | ACT-1 | |
| E122 | JNR | BUILDING SUPPORT | RSF | RB | GYP/P-E | ACT-1 | |
| E122A | STR | STORAGE | RSF | RB | GYP/P-E | ACT-1 | |
| E123 | MDF | BUILDING SUPPORT | SSC | RB | GYP/P-E | ACT-1 | |
| E124 | ELEC | BUILDING SUPPORT | SSC | RB | GYP/P-E | ACT-1 | |
| E200A | HALLWAY | BREEZEWAY | SS-CONC | SS | PLAST | PLAST | |
| E200B | HALLWAY | BREEZEWAY | SS-CONC | SS | PLAST | PLAST | |
| E200C | HALLWAY | BREEZEWAY | SS-CONC | SS | PLAST | PLAST | |
| E201 | CR 11-G5 | CLASSROOM | RSF | RB | GYP/P-E | ACT-1 | |
| E202 | WK RM | OFFICE | RSF | RB | GYP/P-E | ACT-1 | |
| E203 | CR 12-G4 | CLASSROOM | RSF | RB | GYP/P-E | ACT-1 | |
| E204 | IDF | BUILDING SUPPORT | RSF | RB | GYP/P-E | ACT-1 | |
| E204A | STOR | STORAGE | RSF | RB | GYP/P-E | ACT-1 | |
| E205 | CR 15-G4 | CLASSROOM | RSF | RB | GYP/P-E | ACT-1 | |
| E206 | CR 16-G4 | CLASSROOM | RSF | RB | GYP/P-E | ACT-1 | |
| E207 | CR 17- G3 | CLASSROOM | RSF | RB | GYP/P-E | ACT-1 | |
| E208 | CR 18-G3 | CLASSROOM | RSF | RB | GYP/P-E | ACT-1 | |
| E209 | CR 19- G3 | CLASSROOM | RSF | RB | GYP/P-E | ACT-1 | |
| E212 | CR 20- G3 | CLASSROOM | RSF | RB | GYP/P-E | ACT-1 | |
| E213 | GIRLS | RESTROOM | CT | CT | GYP/P-SG, CT | GYP/P-SG | |
| E214 | BOYS | RESTROOM | CT | CT | GYP/P-SG, CT | GYP/P-SG | |
| E215 | S RR | RESTROOM | CT | CT | GYP/P-SG, CT | GYP/P-SG | |
| E216 | CR 13- G5 | CLASSROOM | RSF | RB | GYP/P-E | ACT-1 | |
| E217 | CR 14-G5 | CLASSROOM | RSF | RB | GYP/P-E | ACT-1 | |

FLOOR FINISH
- CPT CARPET TILE
- CT CERAMIC TILE
- QT QUARRY TILE
- RSF RUBBER SHEET FLOORING
- S-CONC SEALED CONCRETE
- SS-CONC STAINED AND SEALED CONCRETE

WALL BASE MATERIAL
- CT CERAMIC TILE
- RB 4" HIGH RUBBER BASE
- SS STAINLESS STEEL BASE

WALL MATERIAL
- CMU
- GYP 5/8" GYPSUM BOARD
- PLAST PLASTER

SPECIAL WALL FINISHES
- FB FORBO TACKABLE WALL SURFACE
- FRP FIBER REINFORCED POLYMER
- AP ACOUSTIC PANELS

WALL FINISHES
- CT CERAMIC TILE
- P-E PAINT EGGSHELL
- P-SG PAINT SEMI-GLOSS
- P-SGE PAINT SEMI-GLOSS ENAMEL

CEILING MATERIAL
- ACT-1 ACOUSTICAL CEILING TILE TYPE 1, 2'X4'
- ACT-2 ACOUSTICAL CEILING TILE TYPE 2, CLOUDS
- GYP GYPSUM BOARD

CEILING FINISHES
- P-E PAINT EGGSHELL
- P-SG PAINT SEMI-GLOSS
- WD-1 CUSTOM CNC ROUTED DECORATIVE PLYWOOD
- - CEILING WITH T-BAR MOUNTING

**INTERIOR FINISH LEGEND**

**OWNER:** SRCS VENETIA VALLEY K-8

**PROJECT NAME:** CLASSROOM REPLACEMENT AND NEW MPR BUILDING

**CLIENT ADDRESS:** 177 N San Pedro Rd, San Rafael, CA 94903

DESIGN DEVELOPMENT SET

**SEAL:**

**REVISIONS:**

| | DESCRIPTION | DATE |
|---|---|---|
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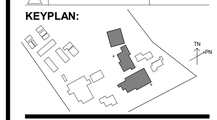
**KEYPLAN:**




**DATE ISSUED:** 08/18/2017

**PROJECT NO:** 2017 - 40104

**SCALE:** 1/4" = 1'-0"

**SHEET NUMBER:**

**A-50.0**

**SHEET TITLE:**

**ROOM FINISH SCHEDULE**


SVA ARCHITECTS

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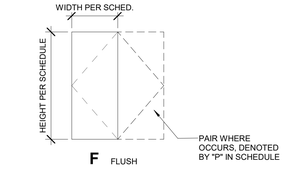
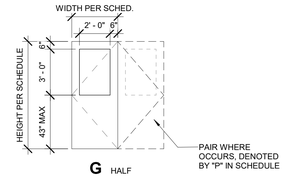
## DOOR SCHEDULE

| NUMBER | WIDTH | HEIGHT | DOOR | | | FRAME | | DETAILS | | | | | HARDWARE | | Fire Rating | REMARKS |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | | | TYPE | MATERIAL | FINISH | MATERIAL | FINISH | HEAD DETAIL | TRANSOM | JAMB 1 | JAMB 2 | THRESHOLD | GROUP | PH | | |
| D100AA | 6' - 0" | 9' - 0" | SF-1 | | | | | | | | | | | | | |
| D100AB | 6' - 0" | 9' - 0" | SF-1 | | | | | | | | | | | | | |
| D100B | 5' - 2" | 8' - 0" | SF-1 | | | | | | | | | | | | | |
| D101 | 3' - 0" | 7' - 0" | F | | | | | | | | | | | | | |
| D102A | 6' - 0" | 8' - 0" | SF-1 | | | | | | | | | | | | | |
| D102AA | 3' - 5" | 7' - 0" | F | | | | | | | | | | | | | |
| D102B | 3' - 5" | 7' - 0" | F | | | | | | | | | | | | | |
| D103 | 3' - 0" | 7' - 0" | F | | | | | | | | | | | | | |
| D104 | 3' - 0" | 7' - 0" | F | | | | | | | | | | | | | |
| D105 | 7' - 0" | 7' - 0" | N-P | | | | | | | | | | | | | |
| D105 | 6' - 0" | 8' - 0" | SF-1 | | | | | | | | | | | | | |
| D105 | 6' - 0" | 8' - 0" | SF-1 | | | | | | | | | | | | | |
| D105 | 6' - 0" | 8' - 0" | SF-1 | | | | | | | | | | | | | |
| D105B | 3' - 0" | 7' - 0" | N-U | | | | | | | | | | | | | |
| D107 | 3' - 0" | 7' - 0" | F | | | | | | | | | | | | | |
| D108 | 3' - 0" | 8' - 0" | N | | | | | | | | | | | | | |
| D109 | 3' - 0" | 8' - 0" | N | | | | | | | | | | | | | |
| D110 | 3' - 0" | 8' - 0" | N | | | | | | | | | | | | 20 MIN | |
| D111 | 3' - 0" | 7' - 0" | F | | | | | | | | | | | | | |
| D112 | 3' - 0" | 8' - 0" | N | | | | | | | | | | | | | |
| D113 | 3' - 0" | 8' - 0" | N | | | | | | | | | | | | | |
| D114 | 3' - 0" | 8' - 0" | N | | | | | | | | | | | | | |
| D120 | 4' - 0" | 7' - 0" | F | | | | | | | | | | | | | |
| D121 | 3' - 5" | 7' - 0" | F | | | | | | | | | | | | | |
| D123 | 3' - 5" | 7' - 0" | F | | | | | | | | | | | | | |
| E101 | 3' - 0" | 8' - 0" | N | | | | | | | | | | | | 20 MIN | |
| E102 | 3' - 0" | 8' - 0" | N | | | | | | | | | | | | 20 MIN | |
| E102A | 3' - 0" | 7' - 0" | N-U | | | | | | | | | | | | | |
| E103 | 3' - 0" | 8' - 0" | N | HM | FPFP | HM | FPFP | | | | | | | | 20 MIN | |
| E104 | 3' - 0" | 8' - 0" | N | HM | FPFP | HM | FPFP | | | | | | | | 20 MIN | |
| E105 | 3' - 0" | 8' - 0" | N | HM | FPFP | HM | FPFP | | | | | | | | 20 MIN | |
| E106 | 3' - 0" | 8' - 0" | N | HM | FPFP | HM | FPFP | | | | | | | | 20 MIN | |
| E107 | 3' - 0" | 8' - 0" | N | HM | FPFP | HM | FPFP | | | | | | | | 20 MIN | |
| E108 | 3' - 0" | 8' - 0" | N | | | | | | | | | | | | 20 MIN | |
| E108 | 3' - 0" | 7' - 0" | F | | | | | | | | | | | | | |
| E109 | 3' - 0" | 8' - 0" | N | HM | FPFP | HM | FPFP | | | | | | | | 20 MIN | |
| E110 | 3' - 5" | 7' - 0" | F | | | | | | | | | | | | | |
| E111 | 3' - 0" | 7' - 0" | F | HM | FPFP | HM | FPFP | | | | | | | | | |
| E112 | 3' - 0" | 8' - 0" | N | | | | | | | | | | | | 20 MIN | |
| E112 | 3' - 0" | 7' - 0" | F | | | | | | | | | | | | | |
| E112A | 3' - 5" | 7' - 0" | F | | | | | | | | | | | | | |
| E113 | 3' - 0" | 8' - 0" | N | HM | FPFP | HM | FPFP | | | | | | | | 20 MIN | |
| E114 | 6' - 0" | 7' - 0" | F-P | HM | FPFP | HM | FPFP | | | | | | | | | |
| E115 | 3' - 0" | 7' - 0" | F | HM | FPFP | HM | FPFP | | | | | | | | 20 MIN | |
| E115 | 3' - 0" | 7' - 0" | F | HM | FPFP | HM | FPFP | | | | | | | | | |
| E115 | 3' - 0" | 7' - 0" | F | HM | FPFP | HM | FPFP | | | | | | | | | |
| E116 | 3' - 0" | 7' - 0" | F | HM | FPFP | HM | FPFP | | | | | | | | 20 MIN | |
| E117 | 3' - 0 11/16" | 7' - 0" | F | | | | | | | | | | | | 20 MIN | |
| E118 | 3' - 5" | 7' - 0" | F | | | | | | | | | | | | | |
| E119 | 3' - 0" | 7' - 0" | F | HM | FPFP | HM | FPFP | | | | | | | | | |
| E120 | 3' - 0" | 8' - 0" | N | | | | | | | | | | | | 20 MIN | |
| E121 | 3' - 0" | 8' - 0" | N | | | | | | | | | | | | 20 MIN | |
| E122 | 3' - 0" | 7' - 0" | F | | | | | | | | | | | | | |
| E123 | 3' - 0" | 7' - 0" | F | | | | | | | | | | | | 20 MIN | |
| E124 | 6' - 0" | 7' - 0" | F-P | | | | | | | | | | | | | |
| E127 | 3' - 0" | 7' - 0" | F | | | | | | | | | | | | | |
| E201 | 3' - 0" | 8' - 0" | N | | | | | | | | | | | | 20 MIN | |
| E202 | 3' - 0" | 8' - 0" | N | | | | | | | | | | | | 20 MIN | |
| E203 | 3' - 0" | 8' - 0" | N | | | | | | | | | | | | 20 MIN | |
| E204 | 3' - 5" | 7' - 0" | F | | | | | | | | | | | | 20 MIN | |
| E204 | 3' - 5" | 7' - 0" | F | | | | | | | | | | | | | |
| E205 | 3' - 0" | 8' - 0" | N | HM | FPFP | HM | FPFP | | | | | | | | 20 MIN | |
| E206 | 3' - 0" | 8' - 0" | N | HM | FPFP | HM | FPFP | | | | | | | | 20 MIN | |
| E207 | 3' - 0" | 8' - 0" | N | HM | FPFP | HM | FPFP | | | | | | | | 20 MIN | |
| E208 | 3' - 0" | 8' - 0" | N | HM | FPFP | HM | FPFP | | | | | | | | 20 MIN | |
| E209 | 6' - 0" | 7' - 0" | F-P | | | | | | | | | | | | | |
| E212 | 3' - 0" | 8' - 0" | N | HM | FPFP | HM | FPFP | | | | | | | | 20 MIN | |
| E213 | 3' - 0" | 7' - 0" | F | HM | FPFP | HM | FPFP | | | | | | | | 20 MIN | |
| E215 | 3' - 1 7/8" | 7' - 0" | F | HM | FPFP | HM | FPFP | | | | | | | | 20 MIN | |
| E216 | 3' - 0" | 8' - 0" | N | | | | | | | | | | | | 20 MIN | |
| E217 | 3' - 0" | 8' - 0" | N | | | | | | | | | | | | 20 MIN | |
| E930 | 14' - 5 7/32" | 9' - 10 1/8" | BF | HM | FPFP | HM | FPFP | | | | | | | | 20 MIN | |
| E936 | 3' - 0" | 7' - 0" | N | | | | | | | | | | | | 20 MIN | |
| EE209 | 3' - 0" | 8' - 0" | N | HM | FPFP | HM | FPFP | | | | | | | | 20 MIN | |

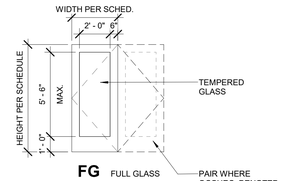
## DOOR LEGEND



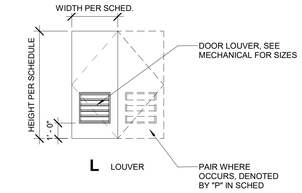

**F** FLUSH



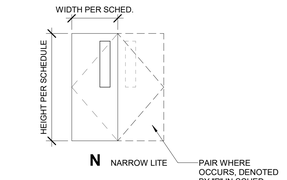

**G** HALF



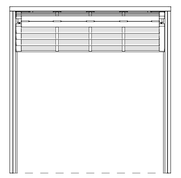

**FG** FULL GLASS



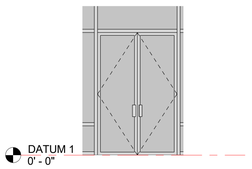

**L** LOUVER




**N** NARROW LITE



**BF** BI-FOLD DOOR




**SF-1**

## GLAZING GENERAL NOTES

ALL SAFETY GLAZING WHERE OCCURS SHALL COMPLY WITH 2013 CBC SECTION 2406.

2406.1 HUMAN IMPACT LOADS. INDIVIDUAL GLAZED AREAS, INCLUDING GLASS MIRRORS, IN HAZARDOUS LOCATIONS AS DEFINED IN SECTION 2406.3 SHALL COMPLY WITH SECTIONS 2406.1.1 THROUGH 2406.1.5.

PROVIDE ONE ACCESSIBLE ROTO OPERATOR AT ACCESSIBLE HEIGHT FOR EACH CLASSROOM

## DOOR NOTES LEGEND

| | | |
|---|---|---|
| AL | - | ALUMINUM |
| AC | - | ANODIZED CLEAR |
| BZ | - | ANODIZED BRONZE |
| CC | - | CONCEALED CLOSER |
| CLR | - | CLEAR |
| FC | - | FLOOR CLOSER |
| FF | - | FACTORY FINISH |
| FLFD | - | FUSIBLE LINK FIRE DAMPER |
| FP | - | FIELD PAINT |
| FPFP | - | FACTORY PRIMED, FIELD PAINTED |
| FRA | - | FIRE RATED ASSEMBLY |
| FS | - | FIELD STAINED |
| GA | - | GALVANIZED |
| GL | - | GLASS OR GLAZING |
| GS | - | GALVANIZED STEEL |
| HM | - | HOLLOW METAL |
| KY | - | FLUOROPOLYMER FINISH (SEE SPECS) |
| LVR | - | LOUVER |
| MF | - | MILL FINISH |
| MR | - | MIRRORED GLASS |
| MAG | - | MAGNETIC HOLD OPEN |
| P | - | PAINTED (FOR EXISTING FRAMES - PAINT SHALL INCLUDE |
| | | PREP AND REPAIR OF EXISTING FRAME, TYPICAL)A\ |
| PG | - | PAINT GRADE |
| PH | - | PANIC HARDWARE |
| PR | - | PAIR |
| SCW | - | SOLID CORE WOOD |
| SG | - | STAIN GRAIN |
| SMC | - | SURFACE MOUNTED CLOSER |
| ST | - | STEEL |

1. LETTER "P" FOLLOWING DOOR TYPE LETTER IN SCHEDULE INDICATES A PAIR OF DOORS. SCHEDULED DIMENSION IS TOTAL FRAME OPENING. BOTH DOOR LEAVES ARE THE SAME SIZE UNLESS OTHERWISE NOTED.

2. LETTER "X" FOLLOWING DOOR TYPE LETTER IN SCHEDULE INDICATES A FIXED PANEL ABOVE DOOR LEAF. DOOR LEAF IS TO BE 7'-0" HIGH. SCHEDULED DIMENSION IS HEIGHT OF ACTIVE DOOR LEAF PLUS FIXED PANEL. FIXED PANEL SHALL BE OF SAME MATERIAL, CONSTRUCTION, THICKNESS, AS FINISH AS ACTIVE DOOR AND PROVIDED BY THE SAME MANUFACTURER AS DOOR.

3. LOUVERS IN FIRE-RATED DOOR ASSEMBLIES TO BE FLFD (FUSIBLE LINK FIRE DAMPER), LOUVERS IN EXTERIOR DOORS TO BE VANDAL-PROOF SECURITY TYPE.

4. GLAZING, ALL GLAZING PANELS IN FIRE-RATED DOOR ASSEMBLIES TO BE RATED GLASS. ALL OTHER GLAZING PANELS IN DOORS TO BE TEMPERED GLASS UNLESS OTHERWISE NOTED.

5. ALL DOORS NOTED AS 1-HOUR, AND 1 1/2-HOUR FIRE-RATED ASSEMBLIES SHALL MEET THE ADDITIONAL REQUIREMENTS OF MAXIMUM 450 F TEMPERATURE RISE ABOVE AMBIENT AFTER 30 MINUTES OF THE FIRE TEST. (CBC SEC. 1005.3.3.5 AND 1005.3.4.4).

6. THICKNESS: ALL DOORS TO BE 1 3/4" THICK UNLESS OTHERWISE NOTED.

7. ALL EXTERIOR DOORS TO HAVE WEATHERSTRIPPING ALL SIDES PER TITLE 24, SECTION T20-1451-1542.

8. ALL WOOD DOORS TO BE SOLID-CORE TYPE.

9. EXIT DOORS SERVING 50 OR MORE OCCUPANTS SHALL OPEN IN THE DIRECTION OF EXIT.

10. EVERY EXIT DOOR SHALL BE OPENABLE FROM THE INSIDE WITHOUT THE USE OF A KEY OR ANY SPECIAL KNOWLEDGE OR EFFORT. ANY SPECIAL LOCKING DEVICES SHALL BE OF THE APPROVED TYPE. CBC CHAPTER 33 AND UFC SECTION 12,104(B).

11. DOOR HARDWARE SHALL COMPLY WITH THE FOLLOWING PER CBC 1133B.2.5

1. OPERABLE BY A SIMPLE EFFORT, NOT GRASPING WRIST MOVEMENT (LEVERS, PANIC DEVICES, OR PULLS).
2. 5-LB CLOSURE PRESSURE AT INTERIOR DOORS.
3. 5-LB CLOSURE PRESSURE AT EXTERIOR DOORS.
4. 5-LB CLOSURE PRESSURE AT FIRE DOORS.
5. WHEN FIRE DOORS ARE REQUIRED, THE MAXIMUM EFFORT TO OPERATE THE DOOR MAY BE INCREASED TO THE MINIMUM ALLOWABLE BY THE APPROPRIATE ADMINISTRATIVE AUTHORITY, NOT TO EXCEED 15 POUNDS.

12. ALL DOORS INDICATED AS FIRE-RATED ASSEMBLIES TO HAVE CLOSURES AND SMOKE SEALS.

13. ON DOORS IN ALUMINUM FRAMES, PROVIDE ARMORED STRIKE ON JAMB OF ALUMINUM FRAME.

14. EXIT DOORS SHALL HAVE A READILY VISIBLE, DURABLE SIGN ON OR ADJACENT TO THE DOOR STATING, "THIS DOOR TO REMAINED UNLOCKED DURING BUSINESS HOURS." THE SIGN SHALL HAVE 1" HIGH LETTERS ON A CONTRASTING BACKGROUND. THE LOCKING DEVICE MUST BE OF A TYPE THAT WILL BE READILY DISTINGUISHABLE AS LOCKED.

15. DOORS SHALL BE A MINUMUM OF 36" WIDE X 80" HIGH WITH NO SINGLE LEAF EXCEEDING 4'-0" IN WIDTH.

16. BOTTOM 10" OF DOOR TO HAVE SMOOTH UNINTERUPTED SURFACE FOR OPENING BY WHEELCHAIR FOOT REST.

17. CENTER OF HARDWARE TO BE 30" TO 40" ABOVE FLOOR. LATCHING AND LOCKING DOOR TO BE OPERABLE WITH A SINGLE EFFORT BY LEVER OR PUSH-PULL TYPE HARDWARE.

18. PROVIDE DOOR SYMBOLS ON DOORWAYS LEADING TO SANITARY FACILITIES (SEE TOILET ROOM DOOR SIGNAGE). CENTER SYMBOLS ON DOORS AT 60" HEIGHT, AND FINISH IN COLOR CONTRASTING TO THAT OF THE DOOR.

19. THRESHOLDS SHALL BE 1/2" HIGH MAXIMUM WITH A 2:1 DEGREE BEVELED EDGE.

20. THRESHOLD HEIGHT BETWEEN 1/4" AND 1/2" SHALL BE BEVELED AT MAZIMUM 50% SLOPE.

21. ALL EXTERIOR DOOR SHALL HAVE PERIMETER DOOR SOUND SEAL/GASKET.

22. EACH DOOR IN A MEANS OF EGRESS FROM A GROUP A, OR ASSEMBLY AREA NOT CLASSIFIED AS AN ASSEMBLY OCCUPANCY, HAVING AN OCCUPANT LOAD OF 50 OR MORE SHALL NOT BE PROVIDED WITH A LATCH OR LOCK UNLESS IT IS PANIC HARDWARE OR FIRE

## DOOR GENERAL NOTES

**OWNER:** SRCS VENETIA VALLEY K-8

**PROJECT NAME:** CLASSROOM REPLACEMENT AND NEW MPR BUILDING

**CLIENT ADDRESS:** 177 N San Pedro Rd, San Rafael, CA 94903

DESIGN DEVELOPMENT SET

**SEAL:**

IDENTIFICATION STAMP
DIVISION OF THE STATE ARCHITECT
OFFICE OF REGULATION SERVICES

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DATE _____

**REVISIONS:**

| | DESCRIPTION | DATE |
|---|---|---|
| | | |
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| | | |
| | | |
| | | |

**KEYPLAN:**

**DATE ISSUED:** 08/18/2017

**PROJECT NO:** 2017 - 40104

**SCALE:** 1/4" = 1'-0"

**SHEET NUMBER:**

**A-52.1**

**SHEET TITLE:**

**SCHEDULE - DOOR**


SVA ARCHITECTS

3 MACARTHUR PLACE, SUITE 850 SANTA ANA, CA 92707
T 949.809.3380 WWW.SVA-ARCHITECTS.COM



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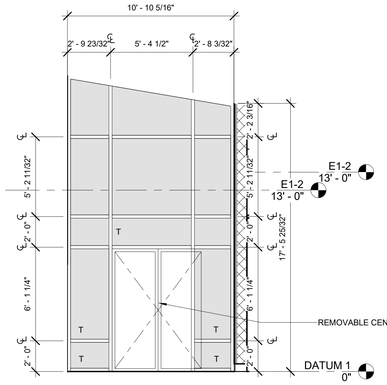
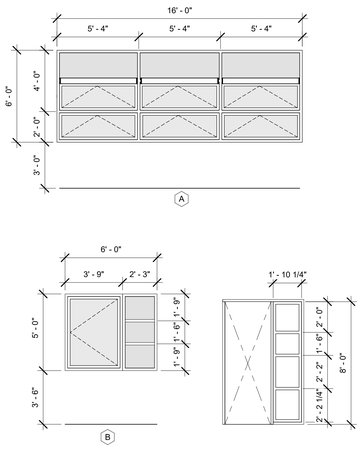
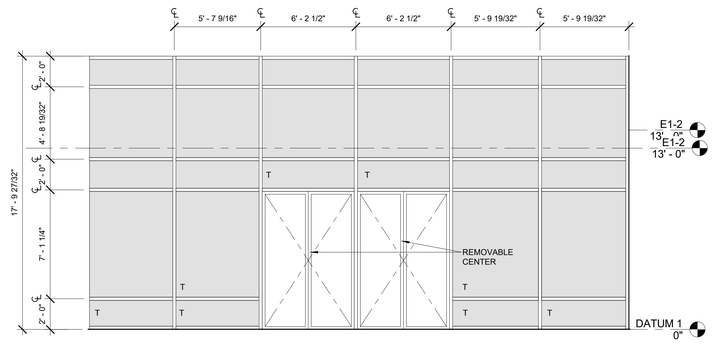
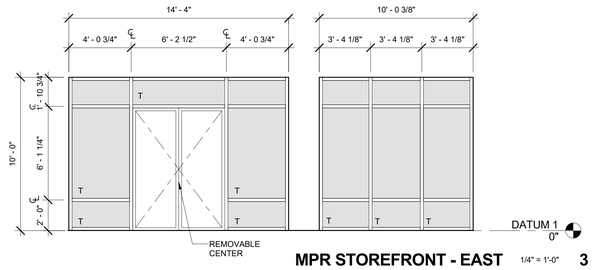



**BLDG ENTRANCE - EAST** 1/4" = 1'-0" **1**



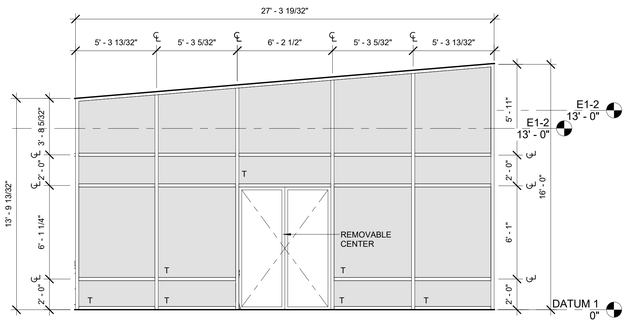

**MPR LOBBY STOREFRONT - EAST** 1/4" = 1'-0" **2**



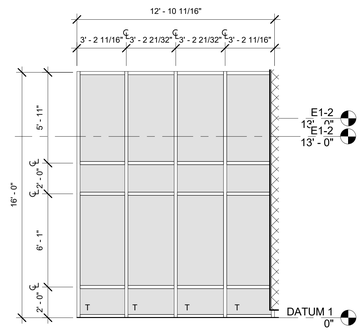

**MPR STOREFRONT - EAST** 1/4" = 1'-0" **3**

**INTERIOR STOREFRONT TYPES**

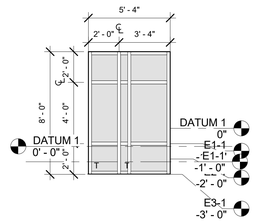
**SHEET NOTES**



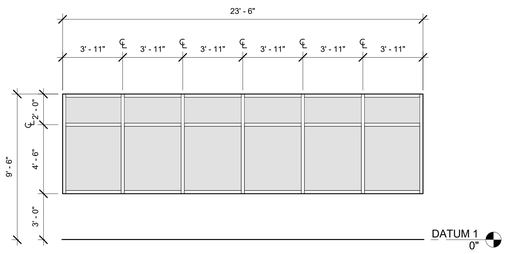

**FAM CENTER STOREFRONT - SOUTH** 1/4" = 1'-0" **4**



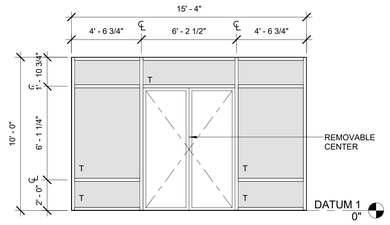

**FAM CENTER STOREFRONT - EAST** 1/4" = 1'-0" **5**



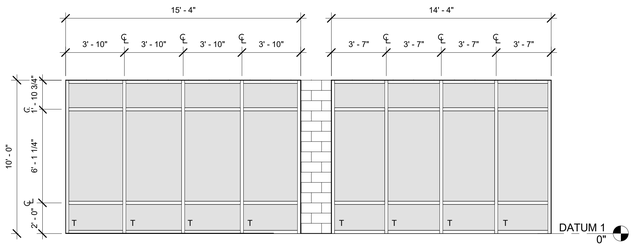

**WORKROOM STOREFRONT- EAST** 1/4" = 1'-0" **6**



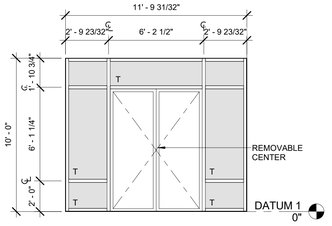

**KITCHEN STOREFRONT - EAST** 1/4" = 1'-0" **7**




**MPR STOREFRONT -N. WEST** 1/4" = 1'-0" **8**




**MPR STOREFRONT - S. WEST** 1/4" = 1'-0" **9**




**MPR STOREFRONT - SOUTH** 1/4" = 1'-0" **10**

**EXTERIOR STOREFRONT TYPES**

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**OWNER:** SRCS VENETIA VALLEY K-8

**PROJECT NAME:** CLASSROOM REPLACEMENT AND NEW MPR BUILDING

**CLIENT ADDRESS:** 177 N San Pedro Rd, San Rafael, CA 94903

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**KEYPLAN:**

**DATE ISSUED:** 08/18/2017

**PROJECT NO:** 2017 - 40104

**SCALE:** 1/4" = 1'-0"

**SHEET NUMBER:**

**A-53.1**

**SHEET TITLE:**

**SCHEDULE - STOREFRONT AND WINDOW**

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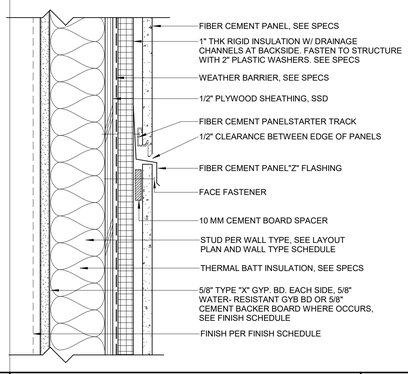
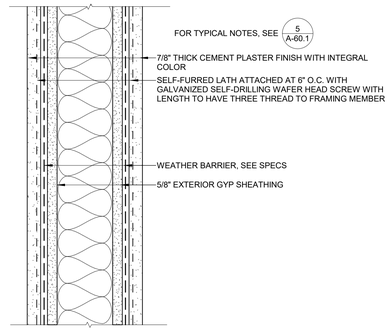
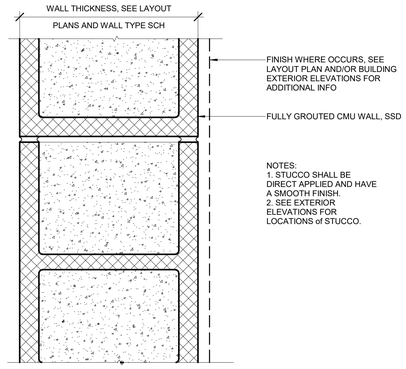


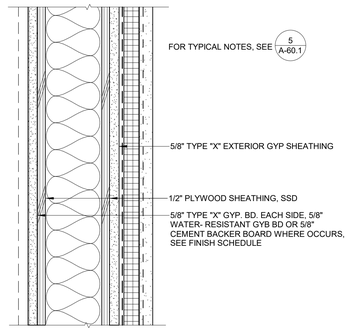

**2.1 CEMENT BD/GYP SINGLE SHEAR** 3" = 1'-0" **10**



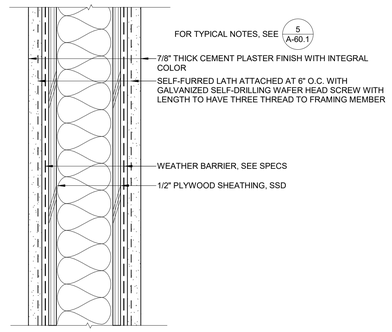

**1.3m EXT PLAST/ EXT PLAST** 3" = 1'-0" **8**




**3.8/ 3.12 CMU WALL** 3" = 1'-0" **13**

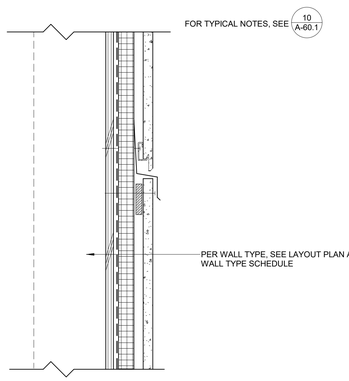



**1.6 EXT PLAST/GYP DD SHEAR 1 HR RATED** 3" = 1'-0" **9**

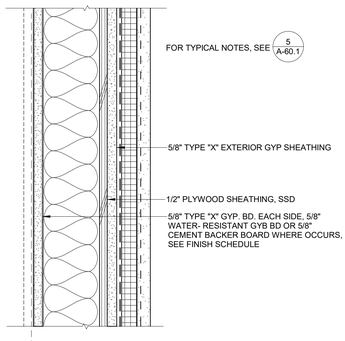



EXTERIOR SIDE

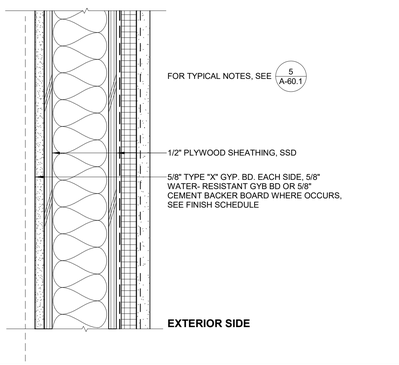
**1.3w EXT PLAST/ EXT PLAST** 3" = 1'-0" **7**




**2.3 CEMENT BD/GYP FURRING** 3" = 1'-0" **11**

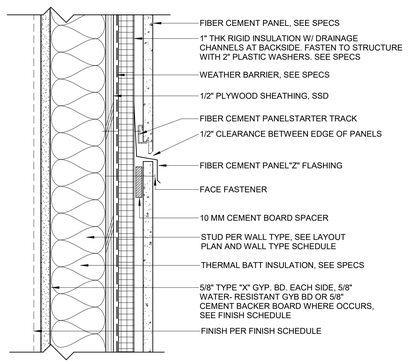



**1.5 EXT PLAST/GYP SGL SHEAR 1 HR RAT** 3" = 1'-0" **1**

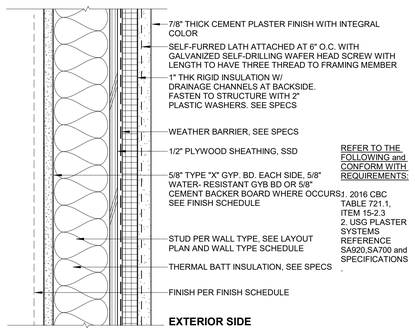



EXTERIOR SIDE

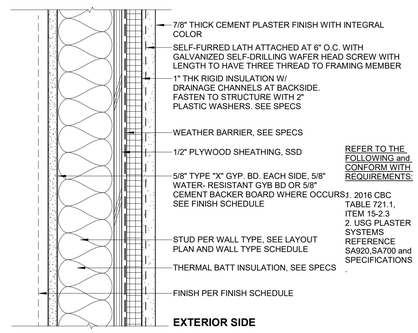
**1.2 TYP EXT PLAST / GYP DOUBLE SHEAR** 3" = 1'-0" **6**




**2.2 CEMENT BD/GYP SGL SHEAR 1 HR RAT.** 3" = 1'-0" **3**




**1.4 EXT PLAST/GYP 1 HR RATED** 3" = 1'-0" **2**




**1.1 EXT PLAST/GYP- SINGLE SHEAR** 3" = 1'-0" **5**

## WALL TYPE SCHEDULE

### 1 EXTERIOR PLASTER WALL

| WALL TYPE | STUD SIZE | STUD TYPE | STUD SPACING | STUD GAUGE | OVERALL WALL THK | DESIGN HT. LIMITS | TYPICAL DETAILS HEAD | TYPICAL DETAILS SILL | REMARKS |
|---|---|---|---|---|---|---|---|---|---|
| 1.1 | 2"X6" | WOOD | 16" O.C | - | - | - | 1/A-12.21 | 1/A-12.21 | SINGLE SHEAR, SSD |
| 1.2 | 2"X6" | WOOD | 16" O.C | - | - | - | | | DOUBLE SHEAR, SSD |
| 1.3w | 2"x6" | WOOD | 16" O.C | - | - | - | | | - |
| 1.3m | 6" | METAL | 16" O.C | - | - | - | | | - |
| 1.4 | 2"X6" | WOOD | 16" O.C | - | - | - | | | UL # XXX |
| 1.5 | 2"X6" | WOOD | 16" O.C | - | - | - | | | UL # XXX SINGLE SHEAR, SSD |
| 1.6 | 2"X6" | WOOD | 16" O.C | - | - | - | | | UL # XXX DOUBLE SHEAR, SSD |

### 2 CEMENT FIBER PANEL WALL SEE TYPE 3 FOR ADDITIONAL WALL TYPES

| WALL TYPE | STUD SIZE | STUD TYPE | STUD SPACING | STUD GAUGE | OVERALL WALL THK | DESIGN HT. LIMITS | TYPICAL DETAILS HEAD | TYPICAL DETAILS SILL | REMARKS |
|---|---|---|---|---|---|---|---|---|---|
| 2.1 | 2"X6" | XXX | 16" O.C | - | - | - | 1/A-12.21 | 1/A-12.21 | SINGLE SHEAR, SSD |
| 2.2 | 2"X6" | WOOD | 16" O.C | - | - | - | | | UL # XXX SINGLE SHEAR, SSD |
| 2.3 | 2"X6" | WOOD | 16" O.C | - | - | - | | | FURRING |

### 3 CONCRETE MASONRY UNIT WALL (CMU)

| WALL TYPE | BLOCK THK | OVERALL WALL THK | DESIGN HT. LIMITS | TYPICAL DETAILS HEAD | TYPICAL DETAILS SILL | REMARKS |
|---|---|---|---|---|---|---|
| 3.8 | 8" | - | SSD | 1/A-12.21 | 1/A-12.21 | SSD FOR SHEAR REQ |
| 3.8.1 | 8" | - | SSD | | | SSD FOR SHEAR REQ |
| 3.8.2 | 8" | - | SSD | | | SSD FOR SHEAR REQ |
| 3.12 | 12" | - | SSD | | | SSD FOR SHEAR REQ |

### 4 RATED ASSEMBLIES ( SEE WALL TYPES 1.4 AND 1.5)

### 5 INTERIOR PARTITIONS

| WALL TYPE | STUD SIZE | STUD TYPE | STUD SPACING | STUD GAUGE | OVERALL WALL THK | DESIGN HT. LIMITS | TYPICAL DETAILS HEAD | TYPICAL DETAILS SILL | REMARKS |
|---|---|---|---|---|---|---|---|---|---|
| 5.1w | 2"X6" | WOOD | 16" O.C | - | - | - | 1/A-12.21 | 1/A-12.21 | |
| 5.1m | 6" | METAL | 16" O.C | 18 GA | - | - | | | |
| 5.2w | 2"X6" | WOOD | 16" O.C | - | - | - | 1/A-12.21 | 1/A-12.21 | FURRING |
| 5.2m | 6" | METAL | 16" O.C | 18 GA | - | - | | | FURRING |
| 5.3 | | | | | | | | | NOT USED |
| 5.4 | | | | | | | | | NOT USED |
| 5.5 | 2"X6" | WOOD | 16" O.C | - | - | - | | | SINGLE SHEAR, SSD |
| 5.5a | 2"X6" | WOOD | 16" O.C | - | - | - | 1/A-12.21 | 1/A-12.21 | ACOUSTIC- STC 50 SINGLE SHEAR, SSD |
| 5.6 | 2"X6" | WOOD | 16" O.C | - | - | - | | | DOUBLE SHEAR, SSD |
| 5.6a | 2"X6" | WOOD | 16" O.C | - | - | - | 1/A-12.21 | 1/A-12.21 | ACOUSTIC- STC 50 DOUBLE SHEAR, SSD |
| 5.7aw | 2"X6" | WOOD | 16" O.C | - | - | - | 1/A-12.21 | 1/A-12.21 | ACOUSTIC- STC 50 |
| 5.7am | 6" | METAL | 16" O.C | - | - | - | 1/A-12.21 | 1/A-12.21 | ACOUSTIC- STC 50 |

### 6 CERAMIC TILE PARTITION FINISH

| WALL TYPE | STUD SIZE | STUD TYPE | STUD SPACING | STUD GAUGE | OVERALL WALL THK | DESIGN HT. LIMITS | TYPICAL DETAILS HEAD | TYPICAL DETAILS SILL | REMARKS |
|---|---|---|---|---|---|---|---|---|---|
| 6.1 | PER WALL TYPE | | | - | - | - | 1/A-12.21 | 1/A-12.21 | |

### 8 PLUMBING CHASE

| WALL TYPE | STUD SIZE | STUD TYPE | STUD SPACING | STUD GAUGE | OVERALL WALL THK | DESIGN HT. LIMITS | TYPICAL DETAILS HEAD | TYPICAL DETAILS SILL | REMARKS |
|---|---|---|---|---|---|---|---|---|---|
| 8.1 | 2"X6" | WOOD | 16" O.C | - | - | - | 1/A-12.21 | 1/A-12.21 | TILE (2 SIDES) |
| 8.2 | 6" | METAL | 16" O.C | 18 GA | - | - | | | TILE (1 SIDES) |

## WALL TYPE GENERAL NOTES

1. PROVIDE WALLL BRIDGING AT 4'-0" O.C. PER STRUCTURAL DETAIL 1/S-91.8 AND NOTE #9 ON S-91.5. BRDIGING MAY BE OMITTED WHERE GYPSUM WALLBOARD IS ATTACHED BOTH SIDES. ALL FURRED WALLS AND DOUBLE WALLS SHALL BE BRACED AS PER DETAILS ON THIS SHEET.

2. ALL SHAFT WALLS SHALL BE FULL HEIGHT UNLESS NOTED OTHERWISE.

3. ALL WALLS ARE FULL HEIGHT UNLESS NOTED OTHERWISE, SEE DETAIL 1/A61.5.

4. FOR WALLS NOTED SPECIFICALLY AS PARTIAL, HEIGHT STOP FRAMING 6" ABOVE FIN. CEILING - REFER DETAIL 4/A61.5.

6. ALL FIRE RATED WALLS SHALL TERMINATE AT STRUCTURE ABOVE UNLESS NOTED OTHERWISE. SEE FLOOR PLANS FOR LOCATIONS OF RATED WALLS.

7. REFER TO SPECIFICATION DIVISIONS 15 AND 16 FOR HVAC, PLUMBING, AND ELECTRICAL PENETRATION OF WALLS.

8. 2 1/2" X 14 GA. STUDS TO HAVE 1 3/8" FLANGE.

9. ALL STUD GAUGE AND SPACING TO BE MAINTAINED OR ADJUSTED TO MANUFACTURER'S DESIGN CRITERIA WHICHEVER IS MORE RESTRICTIVE. ALL LIMITING HEIGHTS ARE BASED ON SSMA (STEEL STUD MANUFACTURERS ASSOCIATION) SYSTEM. THE ALLOWABLE DEFLECTION FOR STUD WALLS SHALL BE:

   L/360 - FOR EXTERNAL WALLS
   L/360 - FOR INTERIOR WALLS WITH STONE, TILE OR WOOD PANEL FINISH AND FOR SHAFT WALLS.
   L/240 - ALL OTHER INTERIOR WALLS.

   A CONTRACTOR USING AN APPROVED EQUAL PRODUCT MUST SUBMIT FOR ARCHITECTS REVIEW WALL TYPE SHEET. THIS SUBMITTAL TO INDICATE PROPER STUD GAUGE AND SPACING PER THE SPAN CAPACITY OF THE SUBSTITUTED PRODUCT. AT NO TIME SHOULD THE STUD GAUGE OR SPACING BE LESS THAN WHAT IS SHOWN ON HIS SHEET. CONTRACTOR TO FIELD VERIFY ALL CONDITIONS FOR SPECIFIC FURRED OUT WALLS PER PLAN AND DETAILS.

10. SEE DET. 4/A-61.5 FOR TYPICAL BOTTOM TRACK CONNECTION.

11. AT TILED WALLS, STOP TILE AND EITHER BACKER BOARD OR MORTAR AT CEILING, PROVIDE 5/8" TYPE "X" GYP. BD. FOR REMAINING HEIGHT OF WALL.

12. AT PENETRATIONS OF FIRE-RATED CMU WALLS, FOLLOW UL SYSTEM NO. W-J-1050 OR EQUIVALENT SYSTEM.

13. ALL GYPSUM BOARD SHALL BE 5/8" TYPE X UNLESS NOTED OTHERWISE.

14. ALL EXTERIOR WALLS INCLUDE R-19 BATT INSULATION AS WELL AS 1" RIGID CONTINUOUS INSULATION PER WALL TYPE. ALL INTERIOR WALLS SHALL INCLUDE ACOUSTICAL BATT INSULATION.

**OWNER:** SRCS VENETIA VALLEY K-8

**PROJECT NAME:** CLASSROOM REPLACEMENT AND NEW MPR BUILDING

**CLIENT ADDRESS:** 177 N San Pedro Rd, San Rafael, CA 94903

DESIGN DEVELOPMENT SET

**SEAL:**

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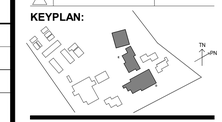
OFFICE OF REGULATION SERVICES
A#
AC_____ FLS_____ SS_____
DATE _____

**REVISIONS:**

| | DESCRIPTION | DATE |
|---|---|---|
| 1 | | |
| 2 | | |
| 3 | | |
| 4 | | |
| 5 | | |

**KEYPLAN:**




**DATE ISSUED:** 08/18/2017
**PROJECT NO:** 2017 - 40104
**SCALE:** As indicated
**SHEET NUMBER:**

**A-60.1**

**SHEET TITLE:**

**TYPICAL EXTERIOR WALL TYPES**

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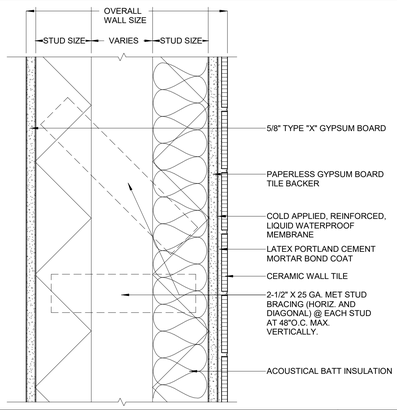
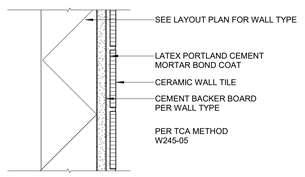
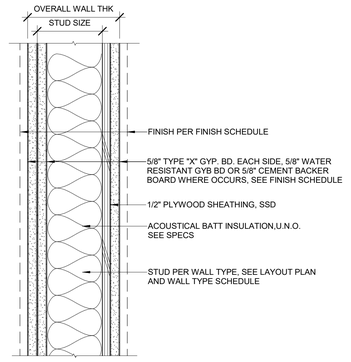


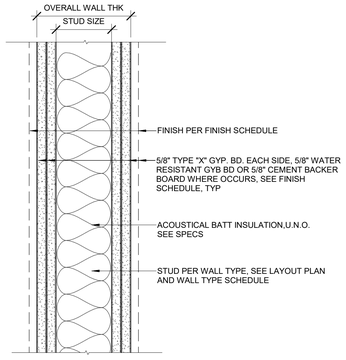

## PLUMBING CHASE WALL DETAIL1 — 3" = 1'-0" — 16



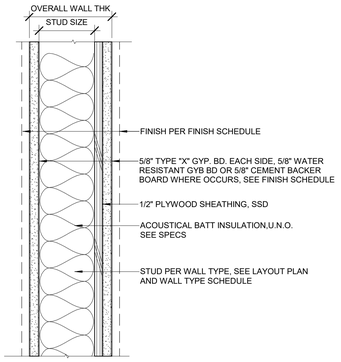

## 6.1 CERAMIC WALL TILE — 3" = 1'-0" — 12



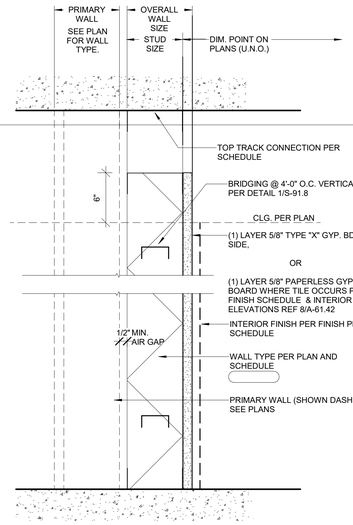

## 5.5a INT PART GYP/GYP SGL SHEAR STC 50 — 3" = 1'-0" — 8



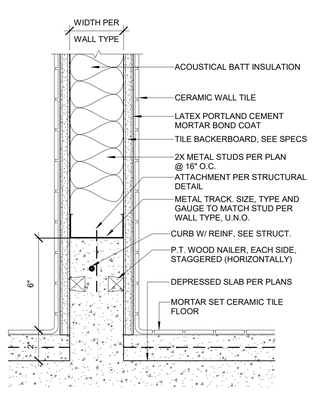

## 5.7# INT PART GYP/GYP STC 50 — 3" = 1'-0" — 11



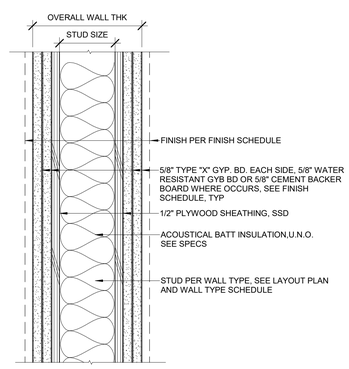

## 5.5 INT PART GYP/GYP SINGLE SHEAR — 3" = 1'-0" — 7



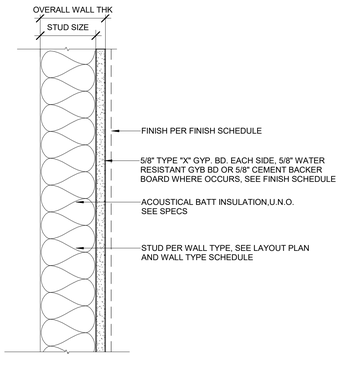

## TYPICAL FURRED WALL1 — 3" = 1'-0" — 18



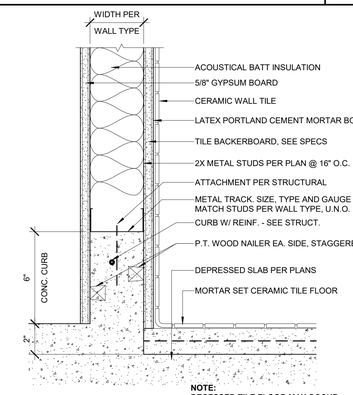

## PLUMBING WALL CURB (SINGLE) — 3" = 1'-0" — 14



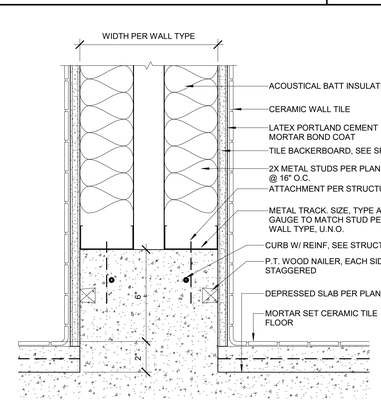

## 5.6a INT PART GYP/GYP DD SHEAR STC 50 — 3" = 1'-0" — 10



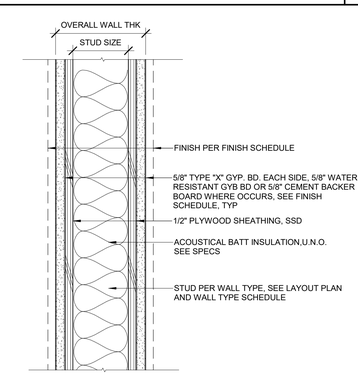

## 5.2# INT GYP FURRING — 3" = 1'-0" — 6



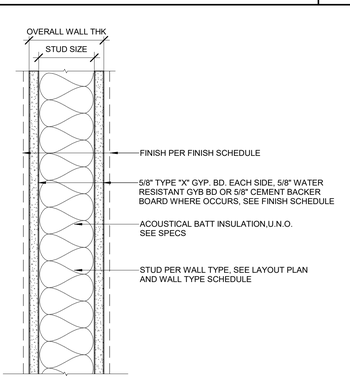

## INTERIOR TILE WALL CURB — 3" = 1'-0" — 17




## 8.1# PLUMBING CHASE — 3" = 1'-0" — 13




## 5.6 INT PART GYP/GYP DOUBLE SHEAR — 3" = 1'-0" — 9




## 5.1# INT PARTITION GYP/GYP — 3" = 1'-0" — 5

## WALL TYPE SCHEDULE

### 1 EXTERIOR PLASTER WALL

| WALL TYPE | STUD SIZE | STUD TYPE | STUD SPACING | STUD GAUGE | OVERALL WALL THK | DESIGN HT. LIMITS | TYPICAL DETAILS HEAD | SILL | REMARKS |
|---|---|---|---|---|---|---|---|---|---|
| 1.1 | 2"X6" | WOOD | 16" O.C | - | - | - | 1/A-12.21 | 1/A-12.21 | SINGLE SHEAR, SSD |
| 1.2 | 2"X6" | WOOD | 16" O.C | - | - | - | | | DOUBLE SHEAR, SSD |
| 1.3w | 2"x6" | WOOD | 16" O.C | - | - | - | | | - |
| 1.3m | 6" | METAL | 16" O.C | - | - | - | | | - |
| 1.4 | 2"X6" | WOOD | 16" O.C | - | - | - | | | UL # XXX |
| 1.5 | 2"X6" | WOOD | 16" O.C | - | - | - | | | UL # XXX SINGLE SHEAR, SSD |
| 1.6 | 2"X6" | WOOD | 16" O.C | - | - | - | | | UL # XXX DOUBLE SHEAR, SSD |

### 2 CEMENT FIBER PANEL WALL SEE TYPE 3 FOR ADDITIONAL WALL TYPES

| WALL TYPE | STUD SIZE | STUD TYPE | STUD SPACING | STUD GAUGE | OVERALL WALL THK | DESIGN HT. LIMITS | TYPICAL DETAILS HEAD | SILL | REMARKS |
|---|---|---|---|---|---|---|---|---|---|
| 2.1 | 2"X6" | XXX | 16" O.C | - | - | - | 1/A-12.21 | 1/A-12.21 | SINGLE SHEAR, SSD |
| 2.2 | 2"X6" | WOOD | 16" O.C | - | - | - | | | UL # XXX SINGLE SHEAR, SSD |
| 2.3 | 2"X6" | WOOD | 16" O.C | - | - | - | | | FURRING |

### 3 CONCRETE MASONRY UNIT WALL (CMU)

| WALL TYPE | BLOCK THK | | | | OVERALL WALL THK | DESIGN HT. LIMITS | TYPICAL DETAILS HEAD | SILL | REMARKS |
|---|---|---|---|---|---|---|---|---|---|
| 3.8 | 8" | | | | - | SSD | 1/A-12.21 | 1/A-12.21 | SSD FOR SHEAR REQ |
| 3.8.1 | 8" | | | | - | SSD | | | SSD FOR SHEAR REQ |
| 3.8.2 | 8" | | | | - | SSD | | | SSD FOR SHEAR REQ |
| 3.12 | 12" | | | | - | SSD | | | SSD FOR SHEAR REQ |

### 4 RATED ASSEMBLIES ( SEE WALL TYPES 1.4 AND 1.5)

### 5 INTERIOR PARTITIONS

| WALL TYPE | STUD SIZE | STUD TYPE | STUD SPACING | STUD GAUGE | OVERALL WALL THK | DESIGN HT. LIMITS | TYPICAL DETAILS HEAD | SILL | REMARKS |
|---|---|---|---|---|---|---|---|---|---|
| 5.1w | 2"X6" | WOOD | 16" O.C | - | - | - | 1/A-12.21 | 1/A-12.21 | |
| 5.1m | 6" | METAL | 16" O.C | 18 GA | - | - | | | |
| 5.2w | 2"X6" | WOOD | 16" O.C | - | - | - | 1/A-12.21 | 1/A-12.21 | FURRING |
| 5.2m | 6" | METAL | 16" O.C | 18 GA | - | - | | | FURRING |
| 5.3 | | | | | | | | | NOT USED |
| 5.4 | | | | | | | | | NOT USED |
| 5.5 | 2"X6" | WOOD | 16" O.C | - | - | - | | | SINGLE SHEAR, SSD |
| 5.5a | 2"X6" | WOOD | 16" O.C | - | - | - | 1/A-12.21 | 1/A-12.21 | ACOUSTIC-STC 50 SINGLE SHEAR, SSD |
| 5.6 | 2"X6" | WOOD | 16" O.C | - | - | - | | | DOUBLE SHEAR, SSD |
| 5.6a | 2"X6" | WOOD | 16" O.C | - | - | - | 1/A-12.21 | 1/A-12.21 | ACOUSTIC-STC 50 DOUBLE SHEAR, SSD |
| 5.7aw | 2"X6" | WOOD | 16" O.C | - | - | - | 1/A-12.21 | 1/A-12.21 | ACOUSTIC-STC 50 |
| 5.7am | 6" | METAL | 16" O.C | - | - | - | 1/A-12.21 | 1/A-12.21 | ACOUSTIC-STC 50 |

### 6 CERAMIC TILE PARTITION FINISH

| WALL TYPE | STUD SIZE | STUD TYPE | STUD SPACING | STUD GAUGE | OVERALL WALL THK | DESIGN HT. LIMITS | TYPICAL DETAILS HEAD | SILL | REMARKS |
|---|---|---|---|---|---|---|---|---|---|
| 6.1 | PER WALL TYPE | | | - | - | - | 1/A-12.21 | 1/A-12.21 | |

### 8 PLUMBING CHASE

| WALL TYPE | STUD SIZE | STUD TYPE | STUD SPACING | STUD GAUGE | OVERALL WALL THK | DESIGN HT. LIMITS | TYPICAL DETAILS HEAD | SILL | REMARKS |
|---|---|---|---|---|---|---|---|---|---|
| 8.1 | 2"X6" | WOOD | 16" O.C | - | - | - | 1/A-12.21 | 1/A-12.21 | TILE (2 SIDES) |
| 8.2 | 6" | METAL | 16" O.C | 18 GA | - | - | | | TILE (1 SIDES) |

## WALL TYPE GENERAL NOTES

1. PROVIDE WALLL BRIDGING AT 4'-0" O.C. PER STRUCTURAL DETAIL 1/S-91.8 AND NOTE #9 ON S-91.5. BRDIGING MAY BE OMITTED WHERE GYPSUM WALLBOARD IS ATTACHED BOTH SIDES. ALL FURRED WALLS AND DOUBLE WALLS SHALL BE BRACED AS PER DETAILS ON THIS SHEET.
2. ALL SHAFT WALLS SHALL BE FULL HEIGHT UNLESS NOTED OTHERWISE.
3. ALL WALLS ARE FULL HEIGHT UNLESS NOTED OTHERWISE, SEE DETAIL 1/A61.5.
4. FOR WALLS NOTED SPECIFICALLY AS PARTIAL, HEIGHT STOP FRAMING 6" ABOVE FIN. CEILING - REFER DETAIL 4/A61.5.
6. ALL FIRE RATED WALLS SHALL TERMINATE AT STRUCTURE ABOVE UNLESS NOTED OTHERWISE. SEE FLOOR PLANS FOR LOCATIONS OF RATED WALLS.
7. REFER TO SPECIFICATION DIVISIONS 15 AND 16 FOR HVAC, PLUMBING, AND ELECTRICAL PENETRATION OF WALLS.
8. 2 1/2" X 14 GA. STUDS TO HAVE 1 3/8" FLANGE.
9. ALL STUD GAUGE AND SPACING TO BE MAINTAINED OR ADJUSTED TO MANUFACTURER'S DESIGN CRITERIA WHICHEVER IS MORE RESTRICTIVE. ALL LIMITING HEIGHTS ARE BASED ON SSMA (STEEL STUD MANUFACTURERS ASSOCIATION) SYSTEM. THE ALLOWABLE DEFLECTION FOR STUD WALLS SHALL BE:

   L/360 - FOR EXTERNAL WALLS
   L/360 - FOR INTERIOR WALLS WITH STONE, TILE OR WOOD PANEL FINISH AND FOR SHAFT WALLS.
   L/240 - ALL OTHER INTERIOR WALLS.

   A CONTRACTOR USING AN APPROVED EQUAL PRODUCT MUST SUBMIT FOR ARCHITECTS REVIEW WALL TYPE SHEET. THIS SUBMITTAL TO INDICATE PROPER STUD GAUGE AND SPACING PER THE SPAN CAPACITY OF THE SUBSTITUTED PRODUCT. AT NO TIME SHOULD THE STUD GAUGE OR SPACING BE LESS THAN WHAT IS SHOWN ON HIS SHEET. CONTRACTOR TO FIELD VERIFY ALL CONDITIONS FOR SPECIFIC FURRED OUT WALLS PER PLAN AND DETAILS.
10. SEE DET. 4/A-61.5 FOR TYPICAL BOTTOM TRACK CONNECTION.
11. AT TILED WALLS, STOP TILE AND EITHER BACKER BOARD OR MORTAR AT CEILING, PROVIDE 5/8" TYPE "X" GYP. BD. FOR REMAINING HEIGHT OF WALL.
12. AT PENETRATIONS OF FIRE-RATED CMU WALLS, FOLLOW UL SYSTEM NO. W-J-1050 OR EQUIVALENT SYSTEM.
13. ALL GYPSUM BOARD SHALL BE 5/8" TYPE X UNLESS NOTED OTHERWISE.
14. ALL EXTERIOR WALLS INCLUDE R-19 BATT INSULATION AS WELL AS 1" RIGID CONTINUOUS INSULATION PER WALL TYPE. ALL INTERIOR WALLS SHALL INCLUDE ACOUSTICAL BATT INSULATION.

**OWNER:** SRCS VENETIA VALLEY K-8

**PROJECT NAME:** CLASSROOM REPLACEMENT AND NEW MPR BUILDING

**CLIENT ADDRESS:** 177 N San Pedro Rd, San Rafael, CA 94903

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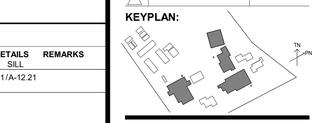


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# TYPICAL INTERIOR PARTITIONS

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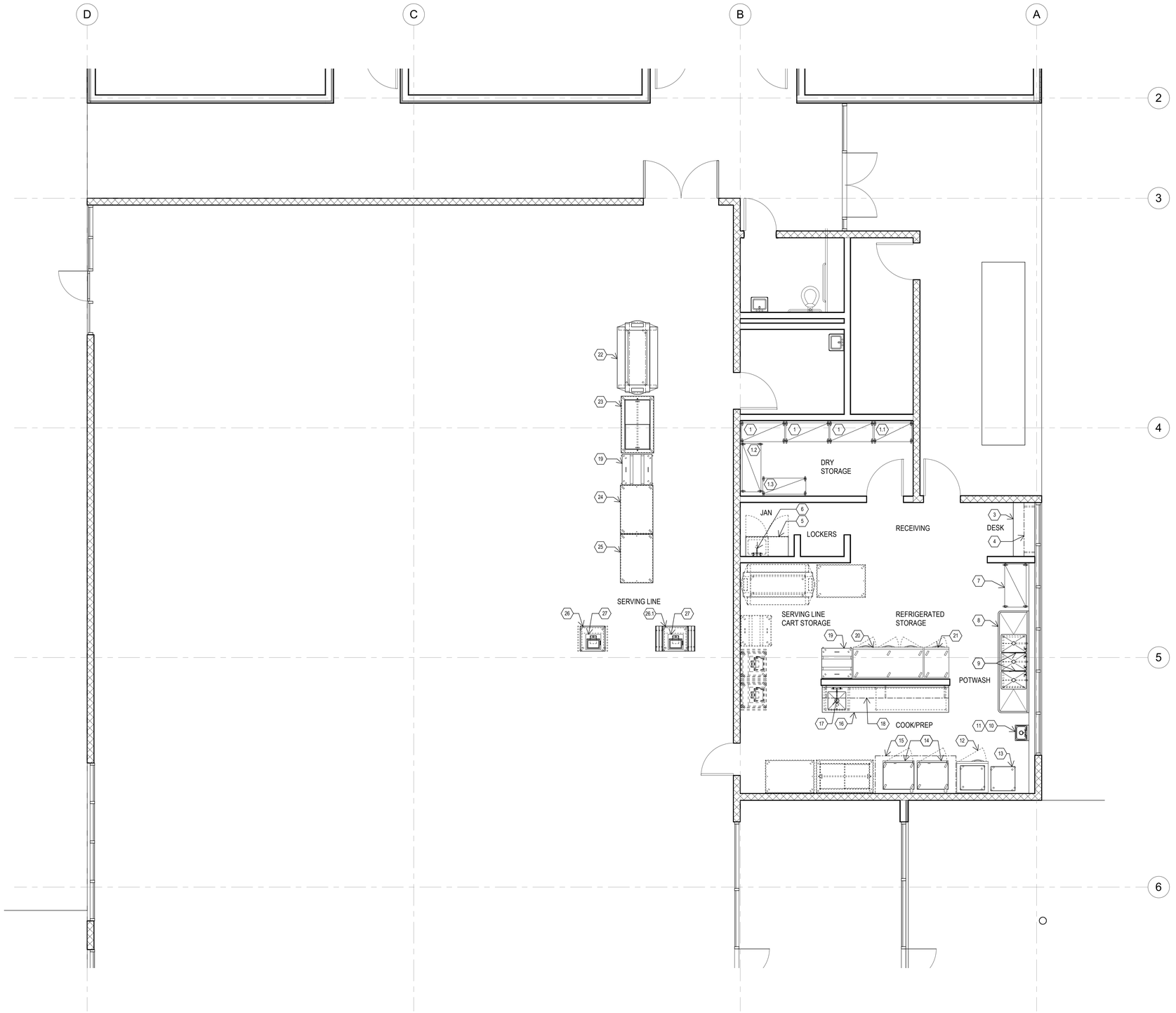


## FOOD SERVICE EQUIPMENT LIST

| ITEM NO | DESCRIPTION |
|---|---|
| 1 | MOBILE STORAGE SHELVING (21"X48") |
| 1.1 | MOBILE STORAGE SHELVING (21"X42") |
| 1.2 | MOBILE STORAGE SHELVING (21"X60") |
| 1.3 | MOBILE STORAGE SHELVING (18"X48") |
| 2 | SPARE NUMBER |
| 3 | DESK - BY ONWER |
| 4 | OVERHEAD WALL SHELF |
| 5 | MOP SINK CABINET WITH STORAGE |
| 6 | MOP SINK FAUCET |
| 7 | MOBILE POT & PAN SHELVING (24"x48") |
| 8 | 3 COMPARTMENT SINK |
| 9 | FAUCET |
| 10 | HANDSINK |
| 11 | FAUCET |
| 12 | 1 DOOR ROLL-IN REFRIGERTOR |
| 13 | MOBILE BASKET DOLLY |
| 14 | RETHERMALIZATION CABINET - EXISTING |
| 15 | TYPE 2 EXHAUST HOOD |
| 16 | WORKTABLE WITH PREP SINK |
| 17 | FAUCET |
| 18 | OVERHEAD WALL SHELF (141"X14") |
| 19 | MILK COOLER - 8 CRATES |
| 20 | 3 DOOR REACH-IN REFRIGERATOR - EXISTING |
| 21 | 1 DOOR REACH-IN FREEZER |
| 22 | MOBILE SALAD BAR - EXISTING |
| 23 | SPEEDLINE HEATED CART (MOBILE) |
| 24 | CONDIMENT CART (MOBILE) |
| 25 | MIDDLE SCHOOL ALA CARTE UNIT (MOBILE) |
| 26 | MOBILE CASH STAND |
| 26.1 | MOBILE CASH STAND |
| 27 | POS SYSTEM - BY OWNER |

## 1 FOOD SERVICE EQUIPMENT PLAN

1/4" = 1'-0"

**OWNER:** SRCS VENETIA VALLEY K-8

**PROJECT NAME:** CLASSROOM REPLACEMENT AND NEW MPR BUILDING

**CLIENT ADDRESS:** 177 N San Pedro Rd, San Rafeal, CA 94903

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**PROJECT NO:** Project Number

**SCALE:** 1/4" = 1'-0"

**SHEET NUMBER:** FS1.01

**SHEET TITLE:**

# FOOD SERVICE EQUIPMENT PLAN & LIST


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# FOOD SERVICE EQUIPMENT & UTILITY SCHEDULE

| EQUIPMENT | | | | | | | ELECTRICAL | | | | | | | | | PLUMBING | | | | | | | | VENTILATION | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | QUANTITY | | | | | | | | | | | | | | | WATER | | | | WASTE | | | | | | | | | | | | | | |
| ITEM NO | QTY | LOT | DESCRIPTION | MANUFACTURER | MODEL | FURNISHED | INSTALLED | VOLTS | PHASE | AMPS | KW | HP | ELECTRICAL AFF | NEMA PLUG CONFIGURATION | DIRECT CONNECTION | ELECTRICAL REMARKS | COLD WATER SIZE | COLD WATER AFF | HOT WATER SIZE | HOT WATER AFF | DIRECT WASTE SIZE | DIRECT WASTE AFF | INDIRECT WASTE SIZE | PLUMBING REMARKS | EXHAUST CONNECTION WIDTH | EXHAUST CONNECTION DEPTH | EXHAUST CONNECTION DIAMETER | EXHAUST CFM | EXHAUST STATIC PRESSURE (IN-WG) | MAKE-UP AIR CONNECTION WIDTH | MAKE-UP AIR CONNECTION DEPTH | MAKE-UP AIR CONNECTION DIAMETER | MAKE-UP AIR CFM | MAKE-UP AIR STATIC PRESSURE (IN-WG) | VENTILATION REMARKS |
| 1 | 3 | | MOBILE STORAGE SHELVING (21"X48") | METRO | SUPER ERECTA | KEC | KEC | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 1.1 | 1 | | MOBILE STORAGE SHELVING (21"X42") | METRO | SUPER ERECTA | KEC | KEC | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 1.2 | 1 | | MOBILE STORAGE SHELVING (21"X60") | METRO | SUPER ERECTA | KEC | KEC | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 1.3 | 1 | | MOBILE STORAGE SHELVING (18"X48") | METRO | SUPER ERECTA | KEC | KEC | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 2 | | | SPARE NUMBER | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 3 | 1 | | DESK - BY ONWER | BY OWNER | | OWNER | OWNER | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 4 | 1 | | OVERHEAD WALL SHELF | FABRICATOR | CUSTOM | KEC | KEC | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 5 | 1 | | MOP SINK CABINET WITH STORAGE | ADVANCE | 9-OPC-84DR | KEC | KEC | | | | | | | | | | | | | | 1 1/2" | 3" | | | | | | | | | | | | |
| 6 | 1 | | MOP SINK FAUCET | FISHER | 8261 | KEC | KEC | | | | | | | | | | 1/2" | 36" | 1/2" | 36" | | | | | | | | | | | | | | |
| 7 | 1 | | MOBILE POT & PAN SHELVING (24"x48") | METRO | MAX | KEC | KEC | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 8 | 1 | | 3 COMPARTMENT SINK | FABRICATOR | CUSTOM | KEC | KEC | | | | | | | | | | | | | | | | 2" | (3)DRAIN CONNECTIONS' | | | | | | | | | | |
| 9 | 1 | | FAUCET | FISHER | 5412 | KEC | KEC | | | | | | | | | | 3/4" | 14" | 3/4" | 14" | | | | | | | | | | | | | | |
| 10 | 4 | | HANDSINK | ADVANCE | 7-PS-40 | KEC | KEC | | | | | | | | | | | | | | 1 1/2" | 12" | | | | | | | | | | | | |
| 11 | 1 | | FAUCET | FISHER | 1996 | KEC | KEC | | | | | | | | | | 1/2" | 18" | 1/2" | 18" | | | | | | | | | | | | | | |
| 12 | 1 | | 1 DOOR ROLL-IN REFRIGERTOR | TRUE | STG1RRI-1S | KEC | KEC | 115 | 1 | 8.90 | | 1/3 | 90" | 5-15P | | | | | | | | | | | | | | | | | | | | |
| 13 | 2 | | MOBILE BASKET DOLLY | GA SYSTEMS | LY-10 | KEC | KEC | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 14 | 2 | | RETHERMALIZATION CABINET - EXISTING | CRES COR | RO-151-FW-1332DE | EXISTING | EXISTING | 208 | 3 | 33.30 | 12.00 | | 48" | | X | | | | | | | | | | | | | | | | | | | | |
| 15 | 1 | | TYPE 2 EXHAUST HOOD | STRIEVOR | WCBD | KEC | KEC | 120 | 1 | 10.00 | | | 120" | | X | | | | | | | | | | | 12" | 10" | | 1800 | 0.50 | | | | | |
| 16 | 1 | | WORKTABLE WITH PREP SINK | FABRICATOR | CUSTOM | KEC | KEC | | | | | | | | | | | | | | | | 1 1/2" | | | | | | | | | | | |
| 17 | 1 | | FAUCET | FISHER | 13269 | KEC | KEC | | | | | | | | | | 1/2" | 18" | 1/2" | 18" | | | | | | | | | | | | | | |
| 18 | 1 | | OVERHEAD WALL SHELF (141"X14") | FABRICATOR | CUSTOM | KEC | KEC | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 19 | 2 | | MILK COOLER - 8 CRATES | TRUE | TMC-34-S-DS | KEC | KEC | 120 | 1 | 6.80 | | 1/3 | 12" | 5-15P | | | | | | | | | | | | | | | | | | | | |
| 20 | 1 | | 3 DOOR REACH-IN REFRIGERATOR - EXISTING | TRUE | STG3R-3S | EXISTING | EXISTING | 115 | 1 | 9.10 | | 1/2 | 90" | 5-15P | | | | | | | | | | | | | | | | | | | | |
| 21 | 1 | | 1 DOOR REACH-IN FREEZER | TRU | STG1F-1S | KEC | KEC | 115 | 1 | 6.80 | | 1/2 | 90" | 5-15P | | | | | | | | | | | | | | | | | | | | |
| 22 | 1 | | MOBILE SALAD BAR - EXISTING | CAMBRO | VBR6 | KEC | KEC | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 23 | 1 | | SPEEDLINE HEATED CART (MOBILE) | GA SYSTEMS | EH536 | KEC | KEC | 120 | 1 | 30.00 | 2.70 | | 6" | 5-30P | | POWER FROM FLOOR BOX | | | | | | | | | | | | | | | | | | | |
| 24 | 1 | | CONDIMENT CART (MOBILE) | GA SYSTEMS | ED536 | KEC | KEC | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 25 | 1 | | MIDDLE SCHOOL ALA CARTE UNIT (MOBILE) | GA SYSTEMS | ED536 | KEC | KEC | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 26 | 1 | | MOBILE CASH STAND | CAMBRO | ES28RL110 | KEC | KEC | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 26.1 | 1 | | MOBILE CASH STAND | CAMBRO | ES28RL110 | EXISTING | EXISTING | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 27 | 1 | | POS SYSTEM - BY OWNER | BY OWNER | | OWNER | OWNER | 120 | 1 | 10.00 | | | 6" | 5-15P | | POWER & DATA FROM FLOOR BOX | | | | | | | | | | | | | | | | | | | |

**OWNER:** SRCS VENETIA VALLEY K-8

**PROJECT NAME:** CLASSROOM REPLACEMENT AND NEW MPR BUILDING

**CLIENT ADDRESS:** 177 N San Pedro Rd, San Rafeal, CA 94903

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## FOOD SERVICE EQUIPMENT & UTILITY SCHEDULE


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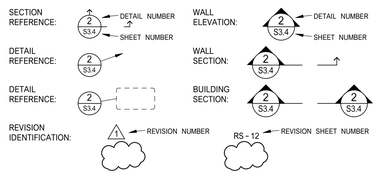
# SRCS VENETIA VALLEY K-8

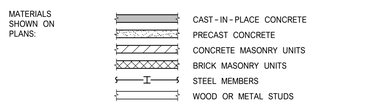
177 N San Pedro Rd, San Rafael, CA 94903

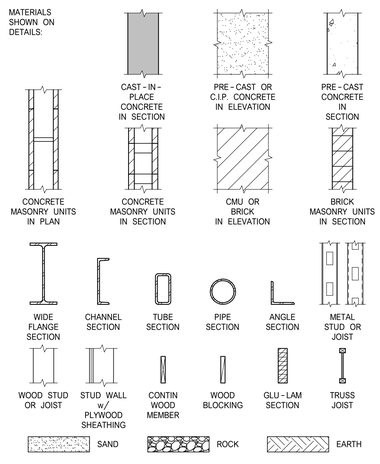
## ABBREVIATIONS

| | | | | | |
|---|---|---|---|---|---|
| A.B. | Anchor Bolt | F.O. STUD | Face of Stud | PLF | Pounds per Linear Foot |
| ACI | American Concrete Institute | FRMG | Framing | PLY | Plywood |
| A.D. | Area Drain | F.S. | Far Side | PLYWD | Plywood |
| ADDL | Additional | FT | Foot or Feet | P.J.P. | Partial Joint Penetration |
| ADJ | Adjacent | FTG | Footing | PSF | Pounds per Square Foot |
| A.F.F. | Above Finish Floor | | | PSI | Pounds per Square Inch |
| AISC | American Institute of Steel Construction | GA | Gage | PSL | Parallel Strand Lumber |
| ALT | Alternate | GALV | Galvanized | P/T | Post-Tensioned |
| APPROX | Approximately | G.B. | Grade Beam | P.T. | Pressure Treated |
| ARCH | Architect or Architecutral | GLB | Glued Laminated Beam | P.T.D.F. | Pressure Treated Douglas Fir |
| ASPH | Asphalt | GLC | Glued Laminated Column | | |
| ASTM | American society of Testing and Materials | GR | Grade | R | Radius |
| A.C. | Asphaltic Concrete, Air Condition | GYP | Gypsum | R.D. | Roof Drain |
| | | | | RDWD | Redwood |
| BAL | Balance | HDR | Header | REF | Reference |
| B.L. | Bottom Lower | HGR | Hanger | REINF | Reinforcing |
| BLDG | Building | HK | Hook | REQD | Required |
| BLK | Block | HORIZ | Horizontal | REV | Revision |
| BLKG | Blocking | H.P. | Hight Point | RF | Roof |
| BM | Beam | H.R. | Hard Rock | RM | Room |
| B.O. | Bottom of | HSS | Hollow Steel Structure | R.O. | Rough Opening |
| BOT | Bottom | HT | Height | | |
| B.P. | Break Point | | | S | Section Modulus |
| BRD | Board | I | Moment of Inertia | S.A.D. | See Architectural Drawings |
| BRG | Bearing | I.D. | Inside Diameter | S.C.D. | See Civil Drawings |
| BRKT | Bracket | I.F. | Inside Face | SCHED | Schedule |
| BTWN | Between | INFO | Information | S.E.D. | See Eletrical Drawings |
| B.U. | Bottom Upper | INSUL | Insulation | SF | Squre Feet |
| | | INT | Interior | SHT | Sheet |
| C | Channel | | | SHTG | Sheathing |
| CBC | California Building Code | JST | Joist | SIM | Similar |
| C.I.P. | Cast In Place | JT | Joint | S.J. | Shrinkage Joint, Seismic Joint or Slip Joint |
| C.J. | Construction or Control Joint | | | S.L.D. | See Landscape Drawings |
| CLG | Ceiling | KIPS | 1000 Pounds | S.M.D. | See Mechanical Drawings |
| CL | Center Line | KSF | KIPS Per Square Foot | S.M.F. | Special Moment Frames |
| CLR | Clear | | | S.M.S. | Sheet Metal Screw |
| CMU | Concrete Masonry Unit | L | Angle | S.O.G. | Slab On Grade |
| COL | Column | LBS | Pounds | SP | Space or Spacing |
| CONC | Concrete | LL | Live Load | S.P.D. | See Plumning Drawings |
| CONN | Connection | LLH | Long Leg Horizontal | SPEC | Specification |
| CONSTR | Construction | LLV | Long Led Vertical | SQ. | Square |
| CONTIN | Continuous | LONGIT | Longitudinal | S.S.D. | See Structural Drawings |
| C.J.P. | Complete Joint Penetration | L.P. | Low Point | STAGG | Staggered |
| CTR | Center | L.S. | Low Shrinkage | STD | Standard |
| CTRD | Centered | LSL | Laminated Strand Lumber | STIFF | Stiffener |
| CTRSNK | Countersink | LT | Light | STL | Steel |
| | | LVL | Laminated Veneer Lumber | STRUCT | Structural |
| d | Penny weight | LTWT | Light Weight | SYM | Symmetric |
| DBL | Double | | | | |
| DEPR | Depression | MACH | Machine | T & B | Top and Bottom |
| D.F. | Douglas Fir | MAS | Masonry | T & G | Tongue and Groove |
| DIA or | Diameter | MATL | Material | T.B. | Tie Beam |
| DIAG | Diagonal | MAX | Maximum | THK | Thick |
| DIM | Dimension | M.B. | Machine Bolt | THRU | Through |
| DL | Dead Load | MC | Miscellaneous Channel | T.L. | Top Lower |
| DN | Down | M.D. | Mid-depth | T.O. | Top Of |
| do | Ditto | MECH | Mechanical | T.O. CONC | Top of Concrete |
| D.W.F. | Deformed Wire Fabric | M.F. | Moment Frame | T.O. PAR | Top of Parapet |
| DWG | Drawing | MFR | Manufacturer | T.O. PLY | Top of Plywood |
| | | MIN | Minimum | T.O. PL | Top of Plate |
| (E) | Existing | MISC | Miscellaneous | T.O. SLAB | Top of Slab |
| EA | Each | MTL | Metal | T.O. STL | Top of Wall |
| E.F. | Each Face | | | TRANS | Transverse |
| E.J. | Expansion Joint | (N) | New | TS | Tube Steel |
| EL | Elevation | N.A. | Not Applicable | T.U. | Top Upper |
| ELEC | Electrical | N.I.C. | Not In Contract | TYP | Typical |
| ELEV | Elevator | NO. | Number | | |
| EMBED | Embedment | N.P. | No Profile | UBC | Uniform Building Code |
| E.N. | Edge Nail | N.S. | Near Side | U.N.O. | Unless Noted Otherwise |
| ENCL | Enclosure | N.T.S. | Not To Scale | | |
| ENGR | Engineer | | | V.B. | Vapor Barrier |
| E.O. | Edge of | o.c. | On Center | VENT | Ventilation |
| E.O. MAS | Edge of Masonry | O.D. | Outside Diameter | VERT | Vertical |
| E.O. PL | Edge of Plate | O.F. | Outside Face | V.I.F. | Verify In Field |
| E.O. SLAB | Edge of Slab | O.H | Opposite Hand | | |
| EQ | Equal | OPNG | Opening | W | Wide Flange |
| EQPT | Equipment | OPP. | Opposite | w/ | With |
| E.W. | Each Way | OSB | Oriented Strand Board | w/o | Without |
| EXP | Expansion | O.W.S.G. | Open Web Steel Girder | WD | Wood |
| EXT | Exterior | O.W.S.J. | Open Web Steel Joist | WF | Wide Flange |
| | | | | W.P. | Work Point |
| F.D. | Floor Drain | PAR | Parapet | W.P.J. | Weakened Plan Joint |
| FDN | Foundation | PC | Piece | WT | Weight or Structural T |
| F.F. | Finish Floor | P/C | Precast | W.W.F. | Welded Wire Fabric |
| FIN | Finish | PCF | Pound per Cubic Foot | | |
| FLR | Floor | P.D.F. | Powder Driven Fastener | | |
| F.O. | Face of | P.D.P. | Powder Driven Pin | | |
| F.O. CONC | Face of Concrete | PL | Property Line or Plate | | |
| F.O. MAS | Face of Masonry | | | | |

## SYMBOLS




## SHEET INDEX


| # | TITLE | 100% D.D. SET |
|---|---|---|
| S0.01 | TITLE PAGE | √ |
| S1.01 | GENERAL NOTES | √ |
| S1.02 | GENERAL NOTES | √ |
| S1.03 | GENERAL NOTES | √ |
| S2.01 | BLDG D - FOUNDATION PLAN | √ |
| S2.02 | BLDG D - LOW ROOF FRAMING PLAN | √ |
| S2.03 | BLDG D - HIGH ROOF FRAMING PLAN | √ |
| S2.11 | BLDG E1, E2, E3 - FOUNDATION PLAN | √ |
| S2.12 | BLDG E1, E2, E3 - LEVEL 2 FRAMING PLAN | √ |
| S2.13 | BLDG E1, E2, E3 - MECH WELL / LOW ROOF FRAMING PLAN | √ |
| S2.14 | BLDG E1, E2, E3 - ROOF FRAMING PLAN | √ |
| S3.01 | TYPICAL DETAILS - CONCRETE | √ |
| S3.02 | FOUNDATION DETAILS | √ |
| S3.03 | FOUNDATION DETAILS | — |
| S3.11 | FOUNDATION SCHEDULES AND DETAILS | √ |
| S3.12 | FOUNDATION DETAILS | — |
| S4.01 | TYPICAL DETAILS - MASONRY | √ |
| S4.02 | CMU WALL ELEVATIONS | √ |
| S4.03 | CMU WALL ELEVATIONS | √ |
| S4.04 | MOMENT FRAME ELEVATIONS | √ |
| S4.05 | MOMENT FRAME DETAILS | — |
| S4.06 | MOMENT FRAME DETAILS | — |
| S4.11 | WOOD WALL ELEVATIONS | — |
| S4.12 | WOOD WALL ELEVATIONS | — |
| S4.13 | WOOD WALL ELEVATIONS | — |
| S5.01 | TYPICAL METAL DECK DETAILS | √ |
| S5.02 | TYPICAL METAL DECK AND STEEL FRAMING DETAILS | √ |
| S5.03 | TYPICAL STEEL FRAMING DETAILS | √ |
| S5.04 | TYPICAL STEEL FRAMING DETAILS | √ |
| S5.05 | STEEL FRAMING DETAILS | — |
| S5.06 | STEEL FRAMING DETAILS | — |
| S5.07 | STEEL TRUSS ELEVATIONS AND DETAILS | √ |
| S5.08 | STEEL ROOF/CMU WALL FRAMING DETAILS | √ |
| S6.01 | WOOD STUD WALL SCHEDULES AND DETAILS | √ |
| S6.02 | TYPICAL WOOD HEADER SCHEDULE & DETAILS | √ |
| S6.03 | TYPICAL WOOD FRAMING DETAILS | √ |
| S6.04 | TYPICAL WOOD WALL/FLOOR FRAMING DETAILS | √ |
| S6.05 | TYPICAL WOOD WALL/FLOOR FRAMING DETAILS | √ |
| S6.06 | WOOD WALL/FLOOR FRAMING DETAILS | √ |
| S6.07 | TIE SCHEDULE AND DETAILS | √ |
| S7.11 | TYPICAL WOOD WALL/ROOF FRAMING DETAILS | — |
| S7.12 | ROOF FRAMING DETAILS | — |
| S8.01 | WOOD STUD SHEAR WALL SCHEDULE AND DETAILS | √ |
| S8.02 | TIEDOWN SCHEDULE, ELEVATIONS, AND DETAILS | √ |
| S8.03 | TIE SCHEDULE AND DETAILS | — |
| S9.01 | STAIR FRAMING PLANS | — |
| S9.02 | STAIR FRAMING DETAILS | — |


ISSUE LOG KEY
' √ ' ISSUED AS PART OF A SET
' — ' NOT A PART OF ISSUED SET
' * ' ISSUED FOR INFORMATION ONLY
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ISSUE LOG — DATE: 08-18-2017

**OWNER:** SRCS VENETIA VALLEY K-8

**PROJECT NAME:** CLASSRROM REPLACEMENT AND NEW MPR BUILDING

**CLIENT ADDRESS:** 177 N San Pedro Rd, San Rafael, CA 94903

**DESIGN DEVELOPMENT SET**

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**PROJECT NO:** 1700117.00

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# TITLE PAGE


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# GENERAL NOTES

## GENERAL

Dimensions refer to rough concrete surfaces, face of studs, face of concrete block, top of sheathing, or top of slab, unless otherwise indicated. The Contractor shall verify all dimensions prior to the start of construction. The Architect shall be notified of any discrepancies or inconsistencies.

All drawings are considered to be a part of the contract documents. The Contractor shall be responsible for the review and coordination of all drawings and specifications prior to the start of construction. Any discrepancies that occur shall be brought to the attention of the Architect prior to the start of construction so that a clarification can be issued. Any work performed in conflict with the contract documents or any code requirements shall be corrected by the Contractor at his own expense and at no expense to the owner or Architect.

Notes and details on the structural drawings shall take precedence over general notes and typical details. Where no details are given, construction shall be as shown for similar work.

All work shall conform to the minimum standards of the following codes:

2016 California Building Code, which comprises Title 24, Part 2 of the California Code of Regulations, as adopted by the California Building Standards Commission referred to here as "The California Building Code, 2016 Edition" or "the code", and any other regulating agencies which have authority over any portion of the work, including the State of California Division of Industrial Safety, and those additional codes and standards including, but not limited to, the following incorporated codes listed below, and in these structural notes and specifications.

Aluminum Association: ADM1-2015, Aluminum Design Manual: Part 1

American Society of Civil Engineers: ASCE 7-10 Minimum Design Loads for Buildings and Other Structures including Supplement No. 1 and 2.

American Concrete Institute (ACI): ACI 318-14 Bldg. Code Requirements for Structural Concrete and Requirements for Structural Concrete and Commentary

American Concrete Institute (ACI): ACI 530-13 Building Code Requirements for Masonry Structures (TMS 402-13) & ACI 530.1-13 Specifications for Masonry Structures (TMS 602-13)

American Institute of Steel Construction (AISC): AISC 325-11 Steel Construction Manual 14th Edition

American Institute of Steel Construction (AISC): AISC 341-10 Seismic Provisions for Structural Steel Buildings

American Institute of Steel Construction (AISC): AISC 358-10 Prequalified Connections for Special Moment Frames for Seismic Applications including Supplement No. 1, and No. 2.

American Institute of Steel Construction (AISC): AISC 360-10 Specification for Structural Steel Buildings

American Iron and Steel Institute (AISI): AISI S100-12 North American Specification for the Design of Cold-formed Steel Structural Members, 2012

American Iron and Steel Institute (AISI): AISI S213-07/S1-09 (2012) North American Standard for Cold-formed Steel Framing - Lateral Design with Supplement 1, dated 2009, (Reaffirmed 2012)

American Welding Society: AWS D1.1:2010 Structural Welding Code - Steel

American Welding Society: AWS D1.3:2008 Structural Welding Code - Sheet Steel

American Welding Society: AWS D1.4:2011 Structural Welding Code - Reinforcing

American Welding Society: AWS D1.8:2009 Structural Welding Code - Seismic Supplement

American Wood Council (AWC): NDS-2015 National Design Specification (NDS) for Wood Construction with 2015 Supplement

American Wood Council (AWC): SDPWS-2015 Special Design Provisions for Wind and Seismic

ASTM specifications on the structural drawings shall be of the latest version, unless otherwise noted.

Refer to the architectural drawings for the following:

- Dimensions not shown on the structural drawings.
- Size and location of all floor and roof openings, except as noted.
- Size and location of all interior and exterior non-bearing partitions.
- Size and location of all door and window openings, except as noted.
- Size and location of inserts for cladding or ornamentation.
- Size and location of all concrete curbs, equipment pads, pits, floor drains, slopes, depressed areas, change in level, chamfers, grooves, inserts, etc.
- Floor and roof finishes.

Refer to the mechanical, plumbing, and electrical drawings for the following:

- Pipe runs, sleeves, hangers, trenches, wall and slab openings, etc., except as noted.
- Electrical conduit runs, boxes, and outlets in walls and slabs.
- Concrete inserts for electrical, mechanical, or plumbing fixtures.
- Size and location of machine or equipment bases or anchor bolts for motor mounts.

The contract structural drawings and specifications represent the finished structure. They do not indicate the method of construction. The Contractor shall provide all measures necessary to protect the structure during construction. Such measures shall include, but not be limited to, bracing and shoring for loads due to construction equipment, etc. Observation visits to the site by the Engineer shall not include inspection of the aforementioned items.

Contractor shall investigate the site, during clearing and earthwork operations, for filled excavations or buried structures, such as cesspools, cisterns, foundations, etc. If any such structures are found, the Engineer shall be notified immediately.

Openings, pockets, etc., larger than 6" shall not be placed in concrete slabs, decks, or walls, unless specifically detailed on the structural drawings. Notify the Engineer when drawings by others show openings, pockets, etc., larger than 6" not shown on the structural drawings, but which are located in structural members. For any further restrictions on openings in structural elements, see applicable sections below.

Construction material shall be spread out if placed on framed roof or floor. Load shall not exceed the design live load per square foot. Provide adequate shoring and/or bracing where the structure has not attained the design strength.

Specifications and detailing of all waterproofing and drainage items, although sometimes indicated on the structural drawings for general information purposes only, are solely the design responsibility of others.

Shop drawings, special inspections, and material sampling and testing, when required, are specified in their respective tables in the general notes and in the specifications.

## DESIGN

Design conforms to the California Building Code, 2016 Edition

Live loads:

| | |
|---|---|
| Roof (flat) | 20 psf |
| Roof (sloped 4/12) | 20 psf |
| Corridors above first floor | 80 psf |
| Classrooms | 50 psf LL |

Wind Analysis:

| | | |
|---|---|---|
| Basic wind speed, $V_{ULT}$ | (CBC Figure 1609A) | $V_{ULT}$ = 115 mph |
| Exposure | (CBC Section 1609A.4.3) | = C |
| Internal Pressure Coefficient, $GC_{Pi}$ | (ASCE Table 26.11-1) | $GC_{Pi}$ = ±0.18 |

Components and cladding design wind pressures at allowable stress levels

| Height (ft) Above Grade | Interior Wall Condition (psf) | Corner Wall Condition (psf) | Remarks |
|---|---|---|---|
| 10 | +20/-25 | +25/-30 | |
| 20 | +20/-25 | +25/-30 | |
| 30 | +20/-25 | +25/-30 | |
| 40 | +20/-25 | +25/-30 | |

(+) Pressures indicate pressure towards wall
(-) Pressures indicate pressure away from wall
Corner conditions - extent of wall from building corner as defined by ASCE 7

## DESIGN (Continued)

Seismic Analysis:

| | | |
|---|---|---|
| Seismic Importance Factor, I | (ASCE Table 1.5-2) | I = 1.25 |
| Risk Category | (CBC Table 1604A.5) | = III |
| Site Location, Latitude | _____° | |
| Site Location, Longitude | _____° | |
| Spectra Accel., Short Period, $S_S$ | (CBC Figure 1613.3.1(1)) | $S_S$ = 0.00 g |
| Spectra Accel., Long Period, $S_1$ | (CBC Figure 1613.3.1(2)) | $S_1$ = 0.00 g |
| Site Classification | (CBC Table 1613A.3.3(2)) | = C/D/E/F |
| Design Response, Short Period, $S_{DS}$ | (CBC Section 1613A.3) | $S_{DS}$ = 0.00 g |
| Design Response, Long Period, $S_{D1}$ | (CBC Section 1613A.3) | $S_{D1}$ = 0.00 g |
| Seismic Design Category | (CBC Table 1613A.5.6(1)&(2)) | = B/C/D/E/F |

Building D

| | | |
|---|---|---|
| Lateral System (ASCE Table 12.2-1) | Bearing Wall System, Special Reinforced Masonry Shear Walls | |
| Response Modification Factor, | R = 5 | |
| System Overstrength Factor, | $\Omega_O$ = 2.5 | |
| Deflection Amplification Factor | $C_d$ = 3.5 | |
| Lateral System (ASCE Table 12.2-1) | Moment Frame System, Special Steel Moment Frame | |
| Response Modification Factor, | R = 8 | |
| System Overstrength Factor, | $\Omega_O$ = 3 | |
| Deflection Amplification Factor | $C_d$ = 5.5 | |
| Seismic Response Coefficient, $C_S$ | (ASCE Section 12.8.1) | $C_S$ = 0.00 |
| Base Shear, V | V = ___ K1ps (N-S)<br>V = ___ K1ps (E-W) | |

Horizontal Inelastic Story Drift Per Level Relative to the Level Below
Level 1 Drift = _____ inches
Level 2 Drift = _____ inches

Seismic Analysis Procedure: Static lateral force procedure
Ground motion: Code design response spectra

Buildings E2 and E3

| | | |
|---|---|---|
| Lateral System (ASCE Table 12.2-1) | Bearing Wall System, Light-Frame Wood Walls w/ Wood Structural Panel Shear Wall | |
| Response Modification Factor, | R = 6.5 | |
| System Overstrength Factor, | $\Omega_O$ = 3 | |
| Deflection Amplification Factor | $C_d$ = 4 | |
| Seismic Response Coefficient, $C_S$ | (ASCE Section 12.8.1) | $C_S$ = 0.00 |
| Base Shear, V | V = ___ K1ps (N-S)<br>V = ___ K1ps (E-W) | |

Horizontal Inelastic Story Drift Per Level Relative to the Level Below
Level 1 Drift = _____ inches
Level 2 Drift = _____ inches

Seismic Analysis Procedure: Static lateral force procedure
Ground motion: Code design response spectra

Analysis/Design: Utilizes the "ETABS" computer software

## FOUNDATIONS

Foundations conform to the recommendations of the Geotechnical Report entitled: "
, California," prepared by , dated
.

Maximum soil pressure = ____ psf DL + LL
= ____ psf DL + LL + Lateral

Retaining Walls

Equivalent fluid pressure (for drained/undrained walls)

Active condition (unrestrained)

| | |
|---|---|
| Level backfill | = ____ pcf |
| Sloping backfill (2:1 max) | = ____ pcf |
| Surcharge | = S/3 psf* |
| Seismic Increment | = ___H psf* |

At rest condition (restrained)

| | |
|---|---|
| Level backfill | = ____ pcf |
| Sloping backfill (2:1 max) | = ____ pcf |
| Surcharge | = S/2 psf* |
| Seismic Increment | = ___H psf** |
| Seismic Increment | = ____ pcf (Inverted Triangular Distribution) |
| Coefficient of friction | = ____ |
| Passive earth pressure (ignore top __ inches) | = ____ pcf |

* S = Live Load Surcharge (psf)
** H = Height of retained soil

Refer to the Geotechnical Report for additional recommendations not listed below. All site grading, excavations, fills, and soil preparation shall conform to the Geotechnical Report and all work shall be done under the observation of the Geotechnical Engineer.

The Contractor shall provide for the design and installation of all cribbing, sheathing, and shoring required and shall be solely responsible for all excavation procedures including lagging, shoring, and the protection of adjacent property, structures, streets, and utilities in accordance with all national, state, and local safety ordinances.

... OPTIONAL: From Geotechnical Report pick type of fill:
Engineered/Compacted/Select

Footings

Footings shall extend to such depth as to bear upon firm, undisturbed native soil or engineered/compacted/select fill. All abandoned footings, utilities, etc. shall be removed. All footings shall be founded at a depth at least ___ below the lowest adjacent grade or pad grade/sub grade/bottom of slab on grade. Footing depths shown on the structural drawings are minimum depths. Footings may be poured in neat excavated trenches.

Excavations for footings shall be observed by the Geotechnical Engineer prior to placing reinforcing and concrete. The Contractor shall notify the Geotechnical Engineer when the excavations are ready for observation.

Engineered/Compacted/Select Fill

Engineered/Compacted/Select fill below footings shall be compacted to 90%/95% relative compaction as determined by the ASTM D1557 compaction test method and under the observation of the Geotechnical Engineer. Engineered/Compacted/Select fill shall have a minimum depth of ___ beneath all footings and extend at least ___ feet beyond all edges thereof.

Slabs On Grade

For the sub capillary break materials under concrete slabs on grade, refer to the Geotechnical Report. Provide 2" of moist sand over a 10 mil vapor barrier over 4"/6" rock course under slabs on grade. Rock course shall be rolled to a smooth surface.

.... OR ....

Slabs On Grade

For the sub capillary break materials under concrete slabs on grade, refer to the Geotechnical Report. Provide a 15 mil vapor barrier complying with ASTM E1745 Class A with a WVTR less than or equal to 0.008 per ASTM E96, placed in accordance with ASTM E1643 over 4"/6" rock course under slabs on grade. Rock course shall be rolled to a smooth surface.

.... OPTIONAL: Add for unoccupied areas in garages ....

At areas under unoccupied slabs on grade, provide 4"/6" compacted Caltrans Class 2 Aggregate Base. Aggregate base shall be rolled to a smooth surface.

## FOUNDATIONS (Continued)

Backfill

All excavations shall be properly backfilled. Do not place backfill behind retaining walls before the concrete or grout has attained full design strength. The Contractor shall brace or protect all building and pit walls below grade from lateral loads until the attaching floors are completely in place and have attained full strength. The Contractor shall provide for the design, permitts, and installation of such bracing.

Footing backfill and utility trench backfill within the building area shall be mechanically compacted in layers in accordance with the Geotechnical Report and observed by the Geotechnical Engineer or Inspector. Flooding will not be permitted.

Geotechnical Engineer Observation Letter

The Geotechnical Engineer shall prepare a letter for the Building Department giving an opinion regarding conformance of the footing excavations, engineered/compacted/select fill compaction, subgrade preparation, and backfilling with the requirements contained in the Geotechnical Report.

## REINFORCING STEEL

Reinforcing Steel detailing, fabrication, and placement shall conform to the "California Building Code", Chapter 19; the "Manual of Standard Practice of the Western Concrete Reinforcing Steel Institute", latest edition; and the "Building Code Requirements for Structural Concrete and Commentary", ACI 318-14; unless otherwise noted.

Standards:
Reinforcing steel shall conform to the following standards:

| | |
|---|---|
| Deformed Bars, #3 | ASTM A615, Grade 40 |
| Deformed Bars, #4 and larger | ASTM A615, Grade 60 |
| Deformed Bars, #4 and larger (where specified) | ASTM A615, Grade 80 |
| Welded reinforcement, when specified by Engineer | ASTM A706 |
| Welded Wire Fabric, WWF (smooth wire) | ASTM A1064 |
| Smooth wire in WWF | ASTM A1064 |
| Deformed Wire Fabric, DWF (deformed wire) | ASTM A1064 |
| Deformed wire in DWF | ASTM A1064 |
| Spiral Reinforcement, smooth | ASTM A615 |
| Spiral Reinforcement, deformed | ASTM A615 |
| Epoxy Coated Reinforcing, when specified by Engineer | ASTM A775 and A615 |

Shear Walls and Ductile Frames: Reinforcing bars used in shear walls or ductile moment frame beams and columns shall also meet the following requirements in accordance with ACI 318-14 Section 20.2.2.4 and 20.2.2.5:

1. Low Alloy ASTM A706 Grade 60, or
2. ASTM A615, Grade 60 where:
   a) the actual yield strength based on mill tests does not exceed the specified yield strength by more than 18,000 psi (retests shall not exceed this value by more than an additional 3,000 psi) and
   b) the ratio of the actual ultimate tensile stress to the actual tensile yield strength is not less than 1.25

Placing: All steel reinforcement shall be securely tied in place so as to maintain their exact position before and during the placement of concrete. Reinforcing steel shall be securely tied in place with #16 annealed iron wire. Bars in beams and slabs shall be supported on well-cured concrete blocks or approved plastic tipped metal chairs, as specified by CRSI Manual of Standard Practice, MSP-1. Accessories for epoxy-coated reinforcing, where shown on plans, shall be as noted in the Specifications. Wire fabric in slabs shall be securely fastened to supporting devices to maintain their position during concrete placement.

Lap bars 58 diameters, laps shall be staggered, for #3 to #6 bars unless otherwise noted

Lap bars 72 diameters, laps shall be staggered, for #7 to #11 bars unless otherwise noted

Form Saver: Form savers are to be used where noted on the drawings. In addition, form savers may be substituted in lieu of dowels at construction joints. Where substituted, contractor to submit for review prior to construction. Form savers shall be capable of developing at least 125% of the specified yield strength of the reinforcing steel. Form savers shall be Type 2, as per ACI 318-14 Section 18.2.7. Form Savers shall be as manufactured by Erico Inc (IAPMO ES ER-0129) or approved equal with a current evaluation report from an approved source.

Welding: Where welding of reinforcing bars is approved by the Engineer, it shall be done by AWS certified welders using E90XX or approved electrodes. Welding procedures shall conform to the requirements of the "Structural Welding Code - Reinforcing Steel", AWS-D1.4

Clear distances, steel to forms, unless noted otherwise:

| | |
|---|---|
| Slabs not exposed to weather, joists, interior wall surfaces | 3/4" |
| Exterior wall surfaces, slabs exposed to weather, #5 and smaller | 1-1/2" |
| Exterior wall surfaces, slabs exposed to weather, #6 and larger | 2" |
| Column Ties, Beam Ties | 1-1/2" |
| Clear distance between bars | 2" |
| Slabs on rolled grade | 1-1/2" |
| Formed surfaces in contact with earth | 2" |
| Unformed surfaces in contact with earth | 3" |

Shop drawings shall be submitted to the Architect for review prior to fabrication. Shop drawings shall include elevations of all beams and columns showing bar and lap locations. See Shop Drawing Submittal Requirements elsewhere in General Notes. Submit mill certificates for reinforcing steel prior to rebar placement.

## CONCRETE WORK

Forms shall be properly constructed conforming to concrete surfaces as shown on the drawings, sufficiently tight to prevent leakage, sufficiently strong, and braced to maintain their shape and alignment until no longer needed to support the concrete. Forms for exposed concrete shall be plywood, using sheets as large as possible, with all joints tightly fitted and blocked, and shall produce a finished concrete surface which is smooth, true, and free from blemishes according to accepted standards for architectural concrete.

Refer to architectural, electrical, and mechanical drawings for details at door and window openings, floor type hinges, etc., and for location of sleeves, pipes, and other embedded items. Openings through slabs or walls not shown on the structural drawings which would interrupt reinforcing bars shall not be made without approval of the Architect.

Debris should be entirely removed from forms prior to concrete placement.

Horizontal construction joints shall be located as shown on the structural drawings, and the hardened concrete surfaces shall be cleaned by sand-blasting or other approved means to expose firmly embedded aggregates prior to pouring additional concrete in contact with these surfaces. Vertical construction joints through beams or slabs shall be located only as shown on structural drawings.

Forms and shoring shall not be removed until the concrete has attained sufficient strength to withstand all loads to be imposed without excessive stress, creep, or deflection. See specifications for shoring requirements.

Concrete shall be ready mixed conforming to ASTM C94. Cement shall be Portland Cement Type II, conforming to ASTM C150. All hardrock (H.R.) concrete used in suspended slabs and slabs on grade shall be designed for low shrinkage (L.S.). Acceptable coarse aggregates for low shrinkage concrete include Kaiser Clayton, Granite Rock, Limestone, Sechelt, or Orcas aggregates. Fine aggregates acceptable for low shrinkage concrete include Sechelt, Orcas, or Granite Rock sands. Alternative aggregates may be submitted provided they provide a concrete mix with a shrinkage limitation of 0.040% after 28 days of drying. Submit test data to Architect for review.

Lightweight concrete, when specified, shall have aggregates that shall be vacuum saturated and conform to ASTM C330 for lightweight aggregates for structural concrete. Maximum dry weight shall be 115 pcf.

Use maximum size aggregate as noted below.

Use 3/8" maximum aggregate where necessary for proper placing, such as in thin or congested sections, etc. Superplasticizers may be used to improve workability in thin or congested sections. Incorporate superplasticizers into concrete mix designs.

Flyash shall consist of pozzolanic admixtures conforming to ASTM C618, Class F, and shall be used in quantities noted below. See specifications for additional requirements.

Admixtures used in concrete shall conform to the following ASTM standards, shall be used in dosages recommended by the manufacturer, and shall not contain more chloride than is found in the municipal drinking water supply. Liquid volume in ASTM C494, Type C admixtures shall be added to water content and water cement ratio calculations.

| | |
|---|---|
| Water reducers | ASTM C494, Type A |
| Mid-range water reducers | ASTM C494, Type A/F |
| High-range water reducers | ASTM C494, Type F |
| Hydration Stabilizers (Retarders) | ASTM C494, Type B and D |
| Accelerators | ASTM C494, Type C |
| Air Entraining Agents | ASTM C260 |
| Corrosion Inhibitors | ASTM C494, Type C |
| Shrinkage Reducing Admixtures | ASTM C494, Type F |
| Viscosity Modifying Admixtures | ASTM C494, Type S |
| Silica Fume | ASTM C1240 |
| Crystalline Waterproofing | No ASTM standard |

Contractor shall submit for review of the Architect the concrete mixes proposed for use, designed by the concrete supplier and reviewed by an approved testing laboratory.

Concrete shall have the following characteristics:

| Concrete Location | Max Aggregate | Strength @ 28 days (psi) | Min. Slump[1] (in) | Min Cement Content (Sacks) | Max Water Content[4] (gal/s) | Max Water/ Cement Ratio | Flyash Content Min, Max |
|---|---|---|---|---|---|---|---|
| Footings | 1-1/2" HR | 3000 | 3.5 | 5.0 | 36 | 0.60 | 20%,35% |
| Grade Beams | 1"x#4 HR | 3000 | 4 | 5.0 | 34 | 0.50 | 15%,25% |
| Slab on grade | 1"x#4 HR-LS | 3000 | 3.5 | 5.0 | 33 | 0.45 | 15%,25% |
| Fill on Metal Deck | 1"x#4 HR-LS | 3000 | 3.5 | 5.0 | 33 | 0.45 | 15%,25% |
| Balcony/Walkway Topping | 3/8" LW | 2500 | 3.5 | 5.0 | 35 | 0.50 | 20%,35% |

[1] Slump shall be the minimum consistent with proper placing. Achieve slump with water reducing admixtures (ASTM C-494 Type A, F, or A/F) for desired workability.
[2] Use high range water reducing admixture (superplasticizer) as needed.
[3] See Prestressed Concrete and Post-Tensioning section, note #18.
[4] Use water reducing admixtures or mid-range water reducing admixtures for desired workability.
[5] Air-entrainment for Lightweight concrete shall be 4% minimum, 7% maximum.

Conduit, when embedded in concrete, shall be spaced with one conduit diameter (larger conduit) clear between adjacent conduits, rebar, or 1 inch, whichever is greater. Conduit shall not be located directly over and parallel to rebar. Embedded conduit can be tied to rebar when oriented perpendicular to them, provided the location of rebar is not affected by the conduit. Conduit without clearance noted above shall be submitted to the architect for review prior to installation. Added trim reinforcement will be required where clearances cannot be met, such as electric panel rooms.

Sleeves, when installed in concrete, shall be spaced with one sleeve diameter (larger sleeve) clear between adjacent sleeves, rebar, or 1 inch, whichever is greater. Sleeves may not touch rebar or other support hardware. Provide clearance between sleeves and reinforcing for typical slab edge conditions. Added trim reinforcement is required per the typical slab opening detail when sleeves exceed 12" diameter or are placed in groups where the out-to-out dimension exceeds 12" in any direction. Sleeve placement shall not interfere with the rebar placement without the approval of the Engineer.

A Sleeve/Penetration Slab Shop drawing shall be submitted for review prior to fabrication. Shop drawings shall include all concrete sleeves, penetrations, and openings, from all disciplines, coordinated, dimensioned and located on plan. See Shop Drawing Submittal Requirements elsewhere in General Notes.

The Contractor shall inform the Architect at least 3 days prior to pouring any structural concrete so that the Architect may have the opportunity of reviewing the work prior to concrete placement.

All concrete except slabs on grade 6" thick or less shall be mechanically vibrated so as to completely fill the forms without causing undue segregation.

For 4" diameter x 8" long cylinders:

5 test cylinders from each 50 yards, or fraction thereof, poured in any one day, shall be secured and tested by an independent testing agency; one to be tested at 7 days for information, three at 28 days for acceptance, and hold one in reserve. For post-tensioned concrete secure 5 cylinders per 50 yards, or fraction thereof, poured in any one day, two sets minimum. Test one at 96 hours for stressing, three at 28 days for acceptance, and hold one in reserve.

For 6" diameter x 12" long cylinders:

4 test cylinders from each 50 yards, or fraction thereof, poured in any one day, shall be secured and tested by an independent testing agency; one to be tested at 7 days for information, two at 28 days for acceptance, and hold one in reserve. For post-tensioned concrete secure 4 cylinders per 50 yards, or fraction thereof, poured in any one day, two sets minimum. Test one at 96 hours for stressing, two at 28 days for acceptance, and hold one in reserve.

The Contractor shall remove and replace any concrete which fails to attain specified strength in 28 days if so directed by the Architect. Any defects in the hardened concrete shall be satisfactorily repaired or the hardened concrete shall be replaced.

OWNER: SRCS VENETIA VALLEY K-8

PROJECT NAME: CLASSRROM REPLACEMENT AND NEW MPR BUILDING

CLIENT ADDRESS: 177 N San Pedro Rd, San Rafael, CA 94903

DESIGN DEVELOPMENT SET

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**PROJECT NO:** 1700117.00
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**SHEET NUMBER:** S1.01
**SHEET TITLE:**

**GENERAL NOTES**

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# GENERAL NOTES

## CONSTRUCTION JOINTS

All construction joints shall be constructed in accordance with ACI 318-14 section 18.10.9.1 and the typical construction joint details shown on the structural drawings.

All surfaces of construction joints shall be cleaned to remove dust, chips, or other foreign matter prior to placing the adjacent concrete.

The Contractor shall submit the proposed locations of construction joints to the Architect for review by the Architect before starting construction.

## ROUGHENED SURFACE

Roughened Surface, where noted on Drawings shall be a surface intentionally roughened to 1/4" amplitude with exposed aggregates. Apply spray-applied concrete retarder after initial set of concrete in areas specified to have roughened surfaces. Remove concrete paste from concrete surface with high pressure water stream. Keys are not required at locations of roughened surfaces. Raked surfaces shall not be used as roughened surfaces.

## GYPSUM FLOOR UNDERLAYMENT

All interior concrete floor fill on plywood subfloor shall be "Gyp-Crete 2000", or the equivalent. It shall have a minimum strength of 2000 psi at 28 days. See plans for thickness. Dry weight shall be 115 pcf

## CONCRETE MASONRY

Specifications:

Concrete Block: ASTM C90
Block Density: Medium Weight with a density of 105 to 125 lb/ft^3
Block Strength: 3750 psi minimum
Grout Strength: 2500 psi minimum at 28 days
Mortar Strength: Type M - 2500 psi minimum at 28 days
Full Assembly Strength: f'm = 2500 psi at 28 days
Reinforcing: ASTM A615, Grade 60

Use all double open end bond beam units, except closed one end at corners, openings, and ends of walls. Provide a minimum of 1/2" clear between the main reinforcing and the masonry units. Lap all splices 40 diameters or 2'-0" minimum. Place extra #4 bar at top of walls, at all ends and corners, and around all sides of openings, unless noted otherwise, and extend 40 diameters (2'-0" minimum) beyond the edges of the openings. When height of grout pour exceeds 4'-0", provide cleanouts at the bottom of the wall at all cells containing vertical reinforcing. All grout shall be mechanically vibrated by electric vibrators. Fill all cells solid with grout.

Refer to the testing requirements under the "Special Inspection" section.

Shop drawings showing reinforcing sizes, placement, and details shall be submitted to the Architect for review prior to fabrication.

## STRUCTURAL STEEL AND MISCELLANEOUS IRON

Structural Steel and Miscellaneous Metal shall be detailed, fabricated, and erected in accordance with AISC 325. Fabricators and Erectors shall be AISC Certified.

Standards: All Structural Steel shall conform to the following ASTM designations, U.N.O.

| | |
|---|---|
| WF Shapes | A992 |
| WT Shapes | A992 |
| HP Shapes | A992 |
| M and S Shapes | A36 |
| Steel Pipe | A53, Grade B (Fy = 35 ksi) |
| HSS Round | A500, Grade B (Fy = 42 ksi) |
| HSS Rectangular and Square | A500, Grade B (Fy = 46 ksi) |
| Angles, C-Shapes, MC-Shapes | A36 |
| Moment Frame Continuity, Doubler and Base Plates . | A572-Grade 50 or A529-Grade 50 |
| Braced Frame Gusset, Shear Plates and Base Plates | A572-Grade 50 or A529-Grade 50 |
| Other Steel Plates and Bars | A36 |

Unless otherwise shown or noted stiffener plates shall be 3/8" thick minimum.

All structural steel surfaces that are encased in concrete, masonry, spray on fireproofing, or are encased by building finishes shall be left unpainted except as required for designation of protected zones, unless noted otherwise.

Where galvanized steel is indicated on drawings, galvanize according to ASTM A123, hot dip process.

Erection clips, temporary bracing, and shoring required by the Contractor are not shown. Contractor shall comply with all OSHA requirements.

Additional miscellaneous metal items such as embeds, railings, and supports for interior finishes may be shown on drawings prepared by others, see architectural drawings.

Shop drawings shall be submitted to the architect for review prior to fabrication

The testing agency shall send copies of Structural Testing and Inspection Reports directly to the Engineer of Record.

Bolted Connections:

Unless otherwise noted, all steel to steel bolted connections shall be bolted with high strength bolts per the "Specification for Structural Joints Using ASTM A325 or A490 Bolts", by the Research Council on Structural Connections (RCSC).

1. Unless otherwise noted, bolts in connections shall be bearing type with threads excluded from the shear plane. Use ASTM A325 bolts unless specifically noted as A490 on the drawings. Except where required to be pre-tensioned in AISC 360 Section J.1.10, or where specifically designated as Slip Critical (SC) on the drawings, all bolts in bearing type connections may be snug tightened per RCSC.

2. Bolts in connections designated as SC on the drawings, or required to be pre-tensioned in accordance with AISC 360 Section J.1.10, shall be pre-tensioned with a faying surface with a Class A slip coefficient (Class A faying surface or surface with Class A coating) or higher in accordance with RCSC Section 3.2, unless noted otherwise on the drawings. Use ASTM A325 bolts with threads excluded from the shear plane unless specifically designated as A490 on the drawings.

3. Steel washers shall conform to ASTM F436 or A959. Nuts shall conform to ASTM A563.

4. Unless noted otherwise, anchor bolts and/or anchor rods shall conform to ASTM F1554 Grade 36. Use ASTM F1554 Grade 55 (weldable) or 105 where noted on the drawings.

5. Other bolted connections shall be bolted with unfinished bolts according to ASTM A307.

Welded Connections:

All welded connections shall be welded in accordance with the "Structural Welding Code - Steel (AWS-D1.1). All welding shall be done with electrodes having a minimum tensile strength of 70 ksi, unless noted otherwise. Shielded metal arc welding (SMAW) electrodes shall be low-hydrogen type. Unless otherwise noted,

1. All welders shall be qualified in accordance with AWS D1.1 for all welds they will be performing.

2. The weld lengths called for on the structural drawings are the net effective length required. Where fillet weld symbol is given without indication of size, use the minimum size welds as specified in AISC 360, Section J2.2b.

3. All welding shall be performed in conformance with a written welding procedure specification (WPS). Submit all WPS's applicable to the project for review listing specific electrodes to be used. The submittal shall include an index of all procedures, shall identify the actual electrode to be used for each procedure, and shall include electrode data sheets describing the products, the limitations of use, the recommended welding parameters, and storage and exposure requirements. For WPS's that are not pre-qualified per AWS D1.1, submit procedure qualification record with WPS.

4. Run-off tabs per AWS D1.1 are required for Complete Joint Penetration (C.J.P.) groove welds. All welds are to be started and completed on the run-off tabs as much as practicable. Do not end welds at cope hole locations. Use of weld dams is not allowed.

5. The minimum preheat and interpass temperatures of AWS D.1 Section 3.5 must be followed.

6. All C.J.P. groove welds in members and connections shall be made with a filler metal having a minimum Charpy V-Notch toughness of 20 FT-LBS at 40 degrees F as determined by AWS classification or manufacturer's certification.

7. All Butt welds are complete joint penetration welds.

8. Complete penetration welds and partial penetration welds shall be examined by Ultrasonic Testing. All testing and inspection shall conform to CBC requirements. Refer to the specifications for additional information.

## STRUCTURAL STEEL AND MISCELLANEOUS IRON (Continued)

ADDITIONAL REQUIREMENTS FOR HEAVY SECTIONS

All hot rolled steel members conforming to ASTM A6 with flanges 2" thick or greater and all built up heavy shapes with plates exceeding 2" in thickness must comply with these requirements.

1. Hot rolled shapes shall be supplied with Charpy V-Notch impact test results in accordance with ASTM A6 Supplementary Requirement S30, Charpy V-notch Impact Test for Structural Shapes - Alternate Core Location. The impact test shall meet a minimum average value of 20 ft-lbs at 70 degrees F.

2. Steel in built-up sections shall be supplied with Charpy V-notch impact test results in accordance with ASTM A6, Supplementary Requirement S5, Charpy V-Notch Impact Test. The impact test shall be conducted in accordance with ASTM A673, Frequency P, and shall meet a minimum average value of 20 ft-lbs at 70 degrees F.

3. Weld access holes for splices shall conform with AISC 360 Section J1.6 and thermal cut surface preparation and inspection requirements shall conform with AISC 360 Section M2.2

ADDITIONAL REQUIREMENTS FOR STEEL SEISMIC FORCE RESISTING SYSTEM (SFRS)

Members and connections that are part of the SFRS are identified thus ----- on the plans. In addition, all members and connections shown on the SFRS frame elevations are part of the SFRS.

For designation of the specific type of SFRS systems used refer to lateral system in Design and Seismic Analysis section above.

In addition to the requirements listed above for Heavy Sections, hot rolled shapes with flanges 1-1/2 inches thick or greater shall have a minimum Charpy V-Notch toughness of 20 ft-lbs at 70 degrees F tested in the alternate core location as described in ASTM A6 Supplementary Requirement S30.

For members and connections that are part of the SFRS, discontinuities created by errors, fabrication or erection operations, such as tack welds, erection aids, air arc gouging and thermal cutting shall be repaired as required by the structural engineer of record.

Lowest Anticipated Service Temperature (LAST) shall be the lowest 1 hour average temperature with a 100 year mean occurrence interval.

The steel structure comprising the SFRS will be enclosed; therefore the LAST will be above 50 degrees F.

Bolted Connections:

All bolted connections that are part of the SFRS shall use pre-tensioned high strength bolts and shall meet the requirements for a faying surface with a Class A slip coefficient (Class A faying surface or surface with Class A coating) or higher in accordance with RCSC Section 3.2, unless noted otherwise on the drawings. Use ASTM A325 bolts with threads excluded from the shear plane unless specifically designated as A490 on the drawings. All bolt holes shall be standard sized holes or shot slotted holes as indicated in the drawings, unless noted otherwise.

Welded Connections:

Unless otherwise noted, all welded connections that are part of the SFRS shall be made with a filler metal meeting the diffusible hydrogen requirements of AWS D1.8 Table 6.3

All welded connections that are part of the SFRS shall conform to the welding and inspection requirements of AWS D1.8.

All welded connections designated as Demand Critical (DC) on the drawings shall comply with the following.

1. Welders performing Demand Critical welds of bottom beam flanges to column flanges through a beam web access hole shall pass the Supplemental Welder Qualification for Restricted Access Welding as prescribed in Annex D of AWS D1.8.

2. Clean up all thermal cut edges by grinding before welding.

3. Welding processes allowed for Demand Critical Welds are limited to SMAW, GMAW (except short circuit transfer), FCAW, and SAW. Other processes are permitted if the are part of the prequalified connections listed in AISC 341 or in AISC 358.

4. Filler metal for Demand Critical Welds shall provide for the mechanical properties listed in AWS D1.8 Table 6.2 based on Heat Input Envelop Testing prescribed in AWS D1.8 Annex A. However, filler metals for structures with LAST greater than or equal to 50 degrees F as noted above and exempted from Annex A heat envelope testing in AWS D1.8 Section 6.3.5 are permitted.

5. For Demand Critical Welds for structures with LAST less than 50 degrees as noted above, the minimum Charpy V-Notch toughness of 40 ft-lb in AWS D1.8 Table 6.2 shall be provided at a test temperature no more than 20 degrees F above the LAST.

6. WPS's for Demand Critical Welds shall include acceptable heat input limits per AWS D1.8 section 6.1.3.

Protected Zones:

Where a Protected Zone is designated on the plans, elevations or details, it shall comply with the following:

1. Erection clips or aides, holes, tack welds, air arc gouging, and other discontinuities created by fabrication or erection operations are not allowed within protected zones. All such occurrences shall be repaired as required by the structural engineer of record.
2. Welded shear studs and metal decking attachments that penetrate the beam flange shall not be placed on beam flanges within protected zones except as specifically designated in AISC 358. Metal decking arc spot welds as required to secure decking shall be permitted.
3. Welded, bolted, screwed, or shot in attachments for edge angles, exterior facades, partitions, duct work, piping, or other construction shall not be placed in the protected zones.
4. The contractor shall take measures to physically indicate in the field the extent of the protected zones, as indicated in the plans, elevations and details, throughout the duration of construction. The contractor shall communicate the restrictions associated with the protected zones to all parties performing work. The restrictions shall be communicated in the preconstruction meetings for each trade.
5. At completion of construction, protected zones shall be permanently identified by application of bright red or orange paint and a permanent metal sign on each side of the member immediately adjacent to each protected zone. The sign shall read as follows:
   "Protected zone!
   ii. Make no attachments to the structural steel in the painted area.
   iii. Do not drill, bolt, rivet, weld or use shot pins.

## METAL DECKING

Metal decking shall be cold formed of sheet steel conforming to ASTM A653-SS Grade 33 and having a galvanized coating conforming to ASTM A653 G60. The required minimum structural properties are shown on the structural drawings, as determined in accordance with the AISI "North American Specification for the Design of Cold-Formed Steel Members". Equivalent decking with equal or greater properties may be used only if written permission is obtained from the Engineer. All decking with lightweight concrete fill shall be vented. Verify venting requirements for floor and roof finishes with the Architect.

Direction of the deck corrugations is denoted on the structural drawings by the symbol. Decking shall be continuous over 3 spans where structural steel layout permits. Deck, span, and gauge have been selected based upon unshored conditions, in the typical case. The Contractor shall refer to the manufacturer's recommendations for shoring to cover all conditions present on the project.

Flashing and closure plates shall be 16 gauge minimum and shall be provided at the ends of all units, around columns, and at all perimeter locations requiring concrete.

Welding shall be as shown in the Metal Deck Schedule. All welding of steel deck shall be done by certified light grade welders in accordance with the "Specifications for Welding Sheet Steel in Structures", AWS-D1.3.

Pipes and electrical conduit shall not be embedded in the concrete fill unless specifically approved by the Engineer.

Shop drawings showing deck properties, layout connections, and stud layout, shall be submitted to the Architect for review prior to erection.

## HEADED STUDS (SHEAR STUDS)

All headed studs welded to beams or concrete connections shall be "True-Weld Studs", Division of Tru-Fit Screw Corporation, Cleveland, Ohio or "Nelson Stud", TRW Fasteners and Assemblies Group, Lorain, Ohio, or approved equal.

All headed studs shall be automatically end welded in the shop or field with equipment recommended by the manufacturer of studs.

Steel shear studs material, welding, and inspection, shall be in accordance with the "Structural Welding Code - Steel", AWS-D1.1. All studs shall be Type B (Fy = 51 ksi, Fu = 65 ksi).

## LIGHT GAUGE METAL STRUCTURAL FRAMING

Light metal structural framing shall be fabricated and erected according to the American Iron and Steel Institute's "North American Specification for the Design of Cold-Formed Steel Structural Members", 2012 edition, and installed per the manufacturer's recommendations.

Light metal structural framing shall conform to the following gauge number references and minimum thickness, U.N.O.

| | |
|---|---|
| 20 gauge (structural)..... | 33 mils |
| 18 gauge..... | 43 mils |
| 16 gauge..... | 54 mils |
| 14 gauge..... | 68 mils |
| 12 gauge..... | 97 mils |

Standards: All Light metal structural framing members including Studs, Tracks, Joist, Angles, Clips, Runners and Brake Shapes shall conform to the following ASTM designations, U.N.O.

Framing members with a minimum thickness of 54 mils and heavier painted: ASTM A1011 Grade 50 (Fy = 50 ksi)

Framing members with a minimum thickness of 54 mils and heavier, galvanized: ASTM A653 Grade 50 (Fy = 50 ksi)

Framing members with a minimum thickness of 43 mils and lighter, painted: ASTM A1011 Grade 33 (Fy = 33 ksi)

Framing members with a minimum thickness of 43 mils and lighter, galvanized: ASTM A653 Grade 33 (Fy = 33 ksi)

All Light metal structural framing section properties shall conform to the Steel Stud Manufactures Association, ICC-ES Report ESR-3064P

Fire stopping, backing for interior finishes, nonbearing walls, and other non-structural framing are not necessarily shown on structural drawings.

## CARPENTRY

Framing lumber shall meet the following minimum standard except where otherwise noted:

| USE | | SPECIES | GRADE | AUTHORITY |
|---|---|---|---|---|
| Mudsills | 2 x 4 | D.F. | Standard or Better Pressure Treated | CBC Sec. 2303.1.8 |
| | 2 x 6 and larger | D.F. | No. 2 or Better Pressure Treated | CBC Sec. 2303.1.8 |
| Plywood | | A.P.A. Grade Marked | CC Exterior or CD Exposure 1 | CBC Standards Sec. 2305 & DOC PS1 & PS2 |
| OSB | | A.P.A. Grade Marked | Exterior or CD Exposure 1 | CBC Standards Sec. 2305 & DOC PS1 & PS2 |
| Horizontal framing member: | | | | |
| 4 x 4 and smaller | | D.F. | No. 2 | WCLIB & WWPA |
| 2 x roof joists and rafters | | D.F. | No. 2 | WCLIB & WWPA |
| 2 x floor joists | | D.F. | No. 2 | WCLIB & WWPA |
| 4 x header and beams | | D.F. | No. 2 | WCLIB & WWPA |
| 6 x 6 and larger | | D.F. | No. 1 | WCLIB & WWPA |
| Vertical framing lumber: | | | | |
| 2 x 4 & 3 x 4 studs | | D.F. | Stud | WCLIB & WWPA |
| 2 x 6 & 2 x 8 studs | | D.F. | No. 2 | WCLIB & WWPA |
| 4 x 4 & 4 x 6 posts | | D.F. | No. 2 | WCLIB & WWPA |
| 4 x 8 & larger posts | | D.F. | No. 1 | WCLIB & WWPA |
| 6 x 6 & larger posts | | D.F. | No. 1 | WCLIB & WWPA |
| All other framing lumber, U.N.O. | | D.F. | Standard & Better | WCLIB & WWPA |

Solid sawn joists shall be grade stamped "S-DRY" which indicates a moisture content not exceeding 19 percent.

Stud walls shown on plans are nonbearing partitions walls, bearing walls or shear walls below the framing level, unless noted otherwise. Studs shall be size and spacing as noted in the drawings, see plans, schedules, and architectural drawings. Where not noted otherwise, stud walls shall be 2 x 4 at 16"o.c.

Minimum framing nailing shall conform to CBC Table 2304.9.1. All nails shall be common wire nails. Predrill nail holes to 70% of nail shank diameter where nailing tends to split wood.

Unless otherwise noted, all wood sill plates under exterior or shear walls in contact with concrete or masonry shall be bolted to the concrete or masonry with 5/8" diameter x 12" bolts at 4'-0"o.c. beginning at 9"o.c. maximum from each end of the plates. The bolts shall extend a minimum of 7" into the concrete or masonry.

All lumber in contact with concrete shall be pressure treated lumber with AWPA treatment C2 using either Alkaline Copper Quaternary (ACQ type B and D), Copper Azole (CBA-A, CA-B), or Sodium Borates (SBX). Anchor bolts, fasteners, and Metal framing connectors in contact with pressure treated lumber shall be hot-dipped galvanized to a rating of G-185 per ASTM A653.

All Lumber in 2 hour fire rated walls and 3 hour fire separation walls shall use fire retardant treated wood per CBC section 2303.2. See architectural drawings for fire rated wall locations and details. Anchor bolts, fasteners, and Metal framing connectors in contact with fire treated lumber shall be hot-dipped galvanized to a rating of G-185 per ASTM A653.

Fire Retardant Treated lumber and plywood, where indicated on plans or in specifications, shall be in accordance with ASTM E-84 or UL 723 with a flame spread index of 25 or less and no evidence of significant combustion when the test is continued for an additional 20 minute period. Treat in accordance with AWPB LP-3. Lumber shall be Kiln Dried after Treatment to a 19% maximum moisture content. Plywood shall be Kiln Dried after Treatment to a 15% maximum moisture content. For specific labelling requirements, see specifications.

Provide 2 studs, each end, under all 4 x 10 and larger beams or headers at spans larger than 5 feet, unless otherwise noted. Where posts or multiple studs under beams or headers are called for on drawings those posts or multiple studs shall be carried to the foundation.

At solid sawn joist provide the following as a minimum, unless shown otherwise:
2" x full depth solid blocking between joists over support.
2" x full depth solid blocking between joists over and below partition walls.

Bridging shall be 2 x solid blocking or approved metal bridging, installed as follows:
Roof joists more than 8" depth, 8'-0"o.c. maximum, not more than 8'-0" from support.
Floor joists more than 8" depth, 8'-0"o.c. maximum, not more than 8'-0" from support.

At wood "I" joist provide the following as a minimum, unless shown otherwise:

Bridging shall be full depth TJI blocking or approved metal bridging, installed as follows:
Roof joists: 12'-0"o.c. maximum, not more than 12'-0" from support.
Floor joists: 12'-0"o.c. maximum, not more than 12'-0" from support.

Provide full depth TJI blocking for the following conditions, unless shown otherwise:
Between joists over support.
Between joists over and below partition walls.

## CARPENTRY (Continued)

Provide double joists under partitions running parallel to joists, unless supported by a wall below or shown otherwise. Double joists shall be connected together, see typical built up member details.

Joist hangers and other metal framing accessories are referred to on plans by particular type as manufactured by Simpson Strong-Tie Company, Stockton, California. Accessories of other manufacturer with equivalent load carrying characteristics may be used.

Fire stopping, backing for interior finishes, nonbearing walls, and other non-structural framing are not necessarily shown on structural drawings.

Roof Sheathing

Plywood sheathing shall be (5/8" (19/32" Performance Category), Ident Index 32/16

Floor Sheathing

Plywood sheathing shall be 3/4" T&G (23/32" Performance Category), Ident Index 48/24

OSB sheathing shall be 3/4" T&G (23/32" Performance Category), Ident Index 48/24

Wall Sheathing

Plywood sheathing shall be 1/2" (15/32" Performance Category), Ident Index 16/0

OSB sheathing shall be 1/2" (15/32" Performance Category), Ident Index 16/0 (Interior wall surfaces only)

Sheathing Installation - Plywood roof and floor sheathing shall be laid with the grain of the outer plies perpendicular to the framing members, shall be continuous over 2 joist bays minimum and end joints shall be staggered. Plywood or OSB Wall sheathing shall be applied vertically.

Unless otherwise noted, plywood or OSB sheathing nails shall be common. Equivalent pneumatically driven nails or staples may be used if fastener manufacturer has received ICC approval according to ESR-1539, or equal. Fasteners to be substituted shall be equivalent in lateral and withdrawal strength to the size of common nail specified.

Use of machine nailing is subject to a satisfactory jobsite demonstration for each project and the approval by the project architect or structural engineer. The approval is subject to continued satisfactory performance. If nail heads penetrate the outer ply more than would be normal for a hand hammer or if minimum allowable edge distances are not maintained, the performance will be deemed unsatisfactory.

Roof Sheathing - Roof sheathing shall be unblocked/blocked where shown. Edge blocking shall be 2x4 flat, minimum, where indicated. When 1/2" roof sheathing is specified, provide Plyclips or approved equal connector at midspan between each support when rafter spacing exceeds 16"o.c., unless edges are blocked. For Fire Retardant Treated requirements see architectural drawings and Fire Retardant Treated section above.

Typical nailing shall be 10d at 6"o.c. at all supported edges and over shear walls, and 10d at 12"o.c. at all intermediate supports, unless otherwise noted, see plans.

Where roof sheathing is installed over prefabricated wood trusses, refer to the structural drawings for lateral loads on trusses above shear walls and at truss tie lines, and provide edge nailing for all trusses with lateral loads.

Floor Sheathing - Floor sheathing shall be unblocked/blocked where shown. Floor sheathing shall be tongue and groove. Refer to section entitled "Glued Floor System" for appropriate criteria. For Fire Retardant Treated requirements see architectural drawings and Fire Retardant Treated section above.

Floor Sheathing nailing shall be 10d at 6"o.c. at all supported edges and over shear walls, and 10d at 12"o.c. at all intermediate supports, unless otherwise noted, see plans.

Wall Sheathing - All walls that are designated thus ------- on plans shall be sheathed with plywood or OSB sheathing. Block all unsupported edges of sheathing. For Fire Retardant Treated requirements see architectural drawings and Fire Retardant Treated section above.

Typical nailing shall be 10d at 6"o.c. at all edges, and 10d at 12"o.c. at all intermediate supports, unless otherwise noted, see plans.

Plywood or OSB sheathed walls, denoted with a -- symbol, are designated as shear walls and shall be nailed as per the Shear Wall Nailing Schedule.

GLUED FLOOR SYSTEM

All floor sheathing shall be glued to the joists. The field-glued floor system shall be installed according to the recommendations of the American Plywood Association. Glue shall be applied to the joists and to the groove in the edge of the T & G panels. Glue shall meet the requirements of the American Plywood Association Adhesive Specification AFG-01 and shall be applied as directed by the glue manufacturer. Glue may be applied manually or with pneumatic or electric equipment.

GLUED LAMINATED BEAMS

Glued laminated members shall be manufactured according to the AITC 117 "The Standard Specifications for Structural Glued Laminated Douglas Fir Timber," latest edition. Adhesive shall be for wet condition of service and an AITC Certificate of Inspection is required.

Glued laminated beams shall provide stress values that meet or exceed the following:

| | |
|---|---|
| Bending Fb (Bottom Fibers) ..... | 2400 psi |
| Bending Fb (Top Fibers) - Single Span ..... | 1850 psi |
| Bending Fb (Top Fibers) - Multiple Spans or Cantilevers .. | 2400 psi |
| Horizontal Shear Fv ..... | 265 psi |
| Modulus of Elasticity ..... | 1800 ksi |
| Compression Perpendicular to Grain ..... | 650 psi |

Provide cambers as noted on the drawings.

Appearance Grade Shall Be: Industrial, when concealed from view.
Architectural, when exposed to view.

OWNER:

PROJECT NAME: SRCS VENETIA VALLEY K-8
CLASSRROM REPLACEMENT AND NEW MPR BUILDING

CLIENT ADDRESS: 177 N San Pedro Rd, San Rafael, CA 94903

DESIGN DEVELOPMENT SET

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# GENERAL NOTES

## WOOD 'I' JOISTS (TJI)

Wood 'I' joists (TJI) shall be as manufactured by Weyerhaeuser, or equal, and of the size and spacing shown in these drawings. Joists shall be fabricated using structural grade plywood or oriented strand board for web material, MICROLLAM lumber or stress-rated lumber for flange material, and utilizing waterproof glues. Installation shall be in accordance with ESR-1153. Products of other manufacturers with equal or greater capacity may be used. Substitutions shall be submitted clearly indicating new member capacities and for which member they are being substituted.

See carpentry section of general notes for additional information

Joists stored prior to erection shall be stored in a vertical position and protected from the weather. Handle joists with care to avoid damage. Erection bracing shall be provided to keep the joists straight and plumb and to assure adequate lateral support for the joists until the sheathing has been attached. After installation and prior to enclosing the joists, the Contractor shall provide the Architect with an opportunity to observe the work.

Provide double joists under partitions running parallel to joists, unless supported by a wall below or shown otherwise. Double joists shall be connected together, see typical built up member details.

Bridging shall be full depth TJI blocking, installed as follows:
Roof joists: 12'-0"o.c. maximum, not more than 12'-0" from support.
Floor joists: 12'-0"o.c. maximum, not more than 12'-0" from support.

Provide full depth TJI blocking for the following conditions, unless shown otherwise:
Between joists over support.
Between joists over and below partition walls.

Joists stored prior to erection shall be stored in a vertical position and protected from the weather. Handle joists with care to avoid damage. Erection bracing shall be provided to keep the joists straight and plumb and to assure adequate lateral support for the joists until the sheathing has been attached. After installation and prior to enclosing the joists, the Contractor shall provide the Architect with an opportunity to observe the work.

Shop drawings and design calculations, showing critical dimensions for size, spacing, placement and design loads, shall be submitted to the Architect for review prior to fabrication. Shop drawings and calculations shall be signed by a Civil or Structural Engineer licensed in the state of California.

## PARALLEL STRAND LUMBER (PSL)

PARALLAM parallel strand lumber (PSL) shall be as manufactured by Weyerhaeuser, or equal. Design and installation shall be in accordance with ESR-1387.

Parallam parallel strand lumber (PSL) beams shall be Grade 2.2E and provide stress values that meet or exceed the following: (Engineer to verify)

| | |
|---|---|
| Bending Stress (Edge Loading), Fb | 2900 psi |
| Shear Stress (Edge Loading), Fv | 290 psi |
| Compressive Stress Perpendicular to the grain (Edge Load), Fc | 750 psi |
| Tensile Stress, Ft | 2025 psi |
| Compressive Stress Parallel to the grain, Fc | 2900 psi |
| Modulus of Elasticity, E | 2200 ksi |

Parallam parallel strand lumber (PSL) columns shall be Grade 1.8E.

Products of other manufacturers with equal or greater capacity may be used. Substitutions shall be submitted clearly indicating new member capacities and for which member they are being substituted.

## TIMBERSTRAND LAMINATED STRAND LUMBER (LSL)

TIMBERSTRAND laminated strand lumber (LSL) beams, rim joists and studs shall be as manufactured by Weyerhaeuser, or equal. Design and installation shall be in accordance with ESR-1387.

Timberstrand laminated strand lumber (LSL) beams and rim joists shall be Grade 1.55E and provide stress values that meet or exceed the following: (Engineer to verify)

| | |
|---|---|
| Bending Stress (Edge Loading), Fb | 2325 psi |
| Shear Stress (Edge Loading), Fv | 310 psi |
| Compressive Stress Perpendicular to the grain (Edge Load), Fc | 900 psi |
| Tensile Stress, Ft | 1070 psi |
| Compressive Stress Parallel to the grain, Fc | 2170 psi |
| Modulus of Elasticity, E | 1550 ksi |

Timberstrand laminated strand lumber (LSL) columns shall be Grade 1.3E.

Product of other manufacturers with equal or greater capacity may be used. Substitutions shall be submitted clearly indicating new member capacities and for which member they are being substituted.

## MICROLLAM LAMINATED VENEER LUMBER (LVL)

MICROLLAM laminated veneer lumber (LVL) beams, rim joists and studs shall be as manufactured by Weyerhaeuser, or equal. Design and installation shall be in accordance with ESR-1387.

Microllam laminated veneer lumber (LVL) beams and rim joists shall be Grade 2.0E and provide stress values that meet or exceed the following: (Engineer to verify)

| | |
|---|---|
| Bending Stress (Edge Loading), Fb | 2600 psi |
| Shear Stress (Edge Loading), Fv | 285 psi |
| Compressive Stress Perpendicular to the grain (Edge Load), Fc | 750 psi |
| Tensile Stress, Ft | 1555 psi |
| Compressive Stress Parallel to the grain, Fc | 2510 psi |
| Modulus of Elasticity, E | 2000 ksi |

Product of other manufacturers with equal or greater capacity may be used. Substitutions shall be submitted clearly indicating new member capacities and for which member they are being substituted.

## WOOD SHRINKAGE

[NOTE: ON 3 STORY BLDGS, OMIT KD REQMT FOR PLATES AND ADJUST SHRINKAGE AMOUNTS PER FLOOR]

The architectural, plumbing, electrical, and mechanical systems shall be designed to account for the cumulative vertical shrinkage due to lumber drying and deflections due to building self weight per California Building Code 2303.7 and 2304.3.3. Lumber drying shrinkage is based on plywood web joist framing and 15 percent for sole and top plates and a final moisture content of 9%.

BUILDING WOOD SHRINKAGE SCHEDULE

| LEVEL | VERTICAL DISPLACEMENT | | FLOOR JOIST |
|---|---|---|---|
| | Per floor (inches) | cumulative (inches) | |
| Roof-2nd | 3/8" | 3/4" | TJI Joists |
| 2nd-Base | 3/8" | 3/8" | TJI Joists |

## ATS TIEDOWN SYSTEM

The ATS tiedown system shown shall be as manufactured by Simpson Strong-Tie Company Inc. (ICC-ES Evaluation Report ESR-2320) or approved equal with a current ICC report.

Shop drawings and calculations for the tiedown system prepared a Civil Engineer, licensed in the State of California, shall be submitted by the Contractor to the Architect for review prior to construction.

Bearing Plates used in 2x6 walls shall be 5" wide minimum.

## POWDER ACTUATED FASTENERS - SILL PLATES

Except at wood framed shear walls and exterior walls, wood sill plates may be fastened to the concrete slabs using powder actuated fasteners spaced at 16" o.c. maximum, unless otherwise noted. The fasteners shall be Hilti X-U as manufactured by Hilti, Inc. (ICC Evaluation Report ESR-2269) or approved equal with a current evaluation report from an approved source.

## LOW VELOCITY PINS (L.V.P.)

Provide Powder Actuated Fasteners with low velocity charges of size and spacing shown, where L.V.P. is noted on the drawings. The fasteners shall be Hilti X-U as manufactured by Hilti, Inc. (ICC Evaluation Report ESR-2269) or approved equal with a current evaluation report from an approved source.

## EPOXY FOR CONCRETE

Epoxy shall be HIT-HY 200 as manufactured by Hilti, Inc. (ICC Evaluation Report ESR-3187). All drilled holes shall be sized according to the manufacturer's recommendations.

## EPOXY FOR MASONRY

Epoxy shall be HIT-HY 70 as manufactured by Hilti, Inc. (ICC Evaluation Report ESR-2682). All drilled holes shall be sized according to the manufacturer's recommendations.

## EXPANSION ANCHORS

Expansion Anchors shall be KB-TZ as manufactured by Hilti, Inc. (ICC Evaluation Report ESR-1917) or approved equal with a current ICC report. All drilled holes shall be sized according to the manufacturer's recommendations.

## HIGH STRENGTH SCREW ANCHORS

High-Strength Screw Anchors shall be Titen HD as manufactured by Simpson Strong Tie, Inc. (ICC Evaluation Report ESR-2713) or approved equal with a current ICC report. All drilled holes shall be sized according to the manufacturer's recommendations.

## SHOP DRAWING SUBMITTALS

When indicated with a "X", the following items shall have either a) shop drawings or b) certificates of conformance or c) shop drawings, calculations, and details submitted to the architect for review and approval prior to fabrication. When shop drawings, calculations, and details are required, submittals (drawings and calculations) must be signed and stamped by a Civil or Structural Engineer registered in the State of California. For additional information on the contents of the submittals, refer to the project specifications and the specific general notes sections. Submit two prints or an electronic (PDF copy) of calculations (where indicated) and shop drawings to the Architect for review.

| Item | Shop Drawings | Certificate1 | Shop Dwgs, calcs, and Details | Remarks |
|---|---|---|---|---|
| Concrete reinforcing | X | | | |
| Concrete, mixes | X | | | |
| Concrete, cement | | X | | |
| Concrete, fine aggregates | | X | | |
| Concrete, coarse aggregates | | X | | |
| Concrete, admixtures | | X | | |
| High Strength Low Shrink Non Metallic Grout | X | | | |
| | | | | |
| Masonry, reinforcing layout | X | | | |
| Masonry, mortar design mix | X | | | |
| Masonry, grout design mix | X | | | |
| Masonry, certificate for units | | X | | |
| Masonry, lime | | X | | |
| | | | | |
| Structural steel | X | | | |
| Welding Procedure Specifications-WPS | X | | | |
| Metal decking w/ stud layout | X | | | |
| Metal stairs | X | | | |
| | | | | |
| Pressure Treated Lumber Treatment | X | | | |
| | | | | |
| Elevators | X | | | |

(1) Certificates shall be dated within 3 months of the submittal.

## MATERIAL SAMPLING AND TESTING

See DSA form 103 for material sampling and testing requirements

## SPECIAL INSPECTION

See DSA form 103 for special inspection requirements

## STRUCTURAL OBSERVATION

The structural engineer of record, or his designated engineer, shall provide structural observation of the structural system for general conformance to the approved plans and specifications at significant construction stages and at completion of the structural system, as required by CBC Section 1704A.6. Written reports shall be submitted to the owner's representative, special inspector, contractor, and building official.

The structural observer shall submit to the building official a written statement that the site visits have been made and identify any reported deficiencies which, to the best of the structural observer's knowledge, have not been resolved.

Structural System Components requiring observation in this project include:

| Item | Required | Remarks |
|---|---|---|
| Foundation Reinforcing | X | Prior to first pour |
| CMU Wall Reinforcing | X | Prior to first pour |
| Structural Steel | X | After Erection of columns and beams |
| Metal Deck, reinforcing and shear studs | X | Prior to first pour |
| Plywood Shear Walls | X | Prior to installation of finishes |
| Plywood Diaphragms | X | Prior to first pour |
| | | |
| | | |
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| | | |

Structural observation does not include or waive the responsibility of the special inspections required by CBC Section 1705A, or other sections of the code as noted elsewhere in the Contract Documents.

**OWNER:** SRCS VENETIA VALLEY K-8

**PROJECT NAME:** CLASSRROM REPLACEMENT AND NEW MPR BUILDING

**CLIENT ADDRESS:** 177 N San Pedro Rd, San Rafael, CA 94903

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**DATE ISSUED:** 08-18-2017
**PROJECT NO:** 1700117.00
**SCALE:** NONE
**SHEET NUMBER:** S1.03
**SHEET TITLE:**

**GENERAL NOTES**

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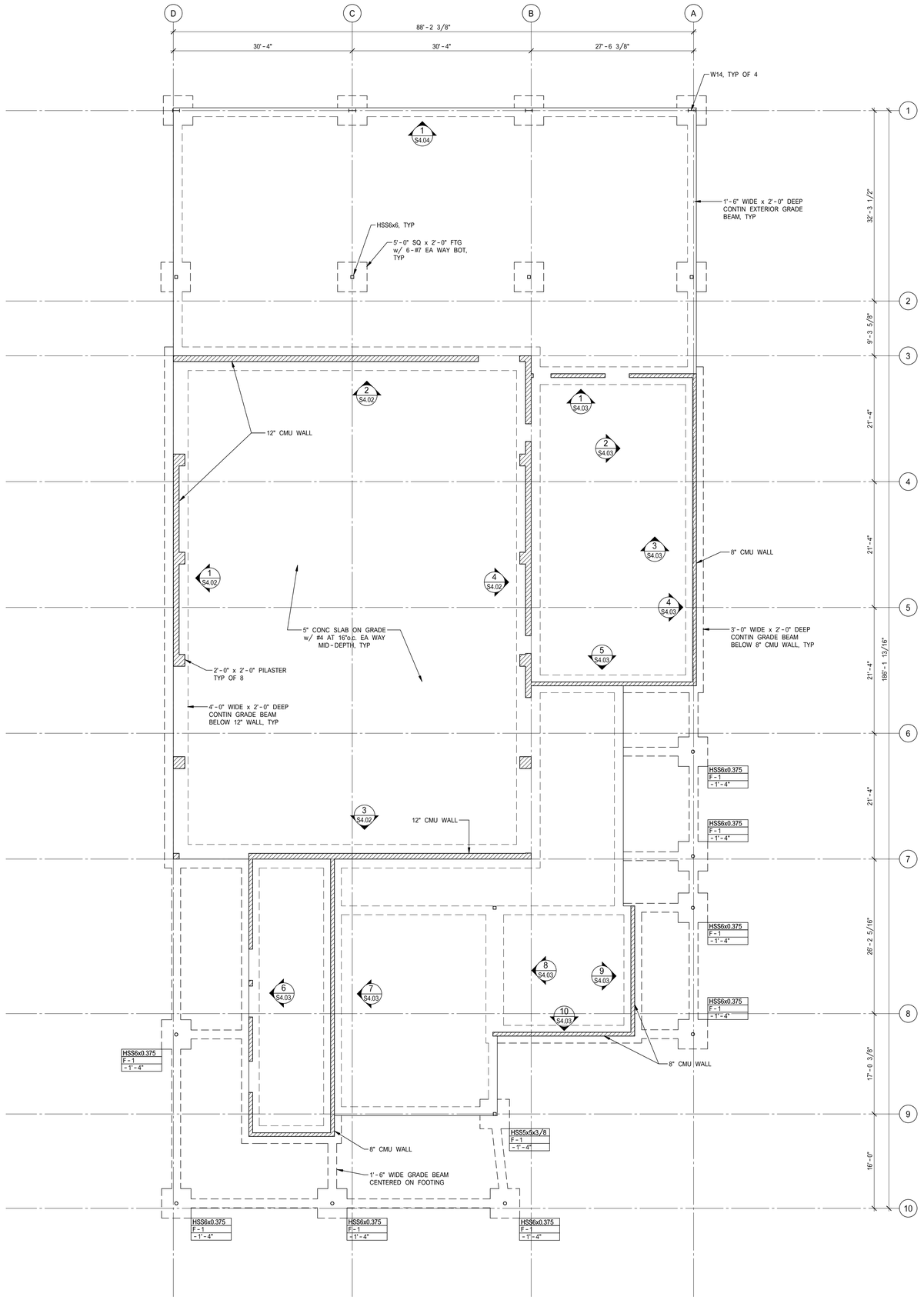


NOTES:

1. FOR GENERAL NOTES REFER TO SHEETS S1.01
   FOR TYPICAL CONCRETE DETAILS REFER TO SHEET S3.01
   FOR FOUNDATION DETAILS REFER TO SHEET S3.11
2. VERIFY ALL DIMENSIONS, ELEVATIONS, FINISH SURFACES, SLOPES, DRAINS, SLAB DEPRESSIONS, ETC., WITH ARCHITECTURAL DRAWINGS, PRIOR TO START OF CONSTRUCTION.
3. SPECIFICATIONS AND DETAILING OF ALL WATERPROOFING AND DRAINAGE ITEMS, ALTHOUGH INDICATED IN THE STRUCTURAL DRAWINGS FOR GENERAL INFORMATION PURPOSES ONLY, ARE THE DESIGN RESPONSIBILITY OF OTHERS.
4. FOR LOCATION, SIZE, AND EXTENT OF CURBS, S.A.D.
5. [4"SOG] INDICATES SLAB DEPRESSIONS, FOR DEPTH AND SLOPE S.A.D.
   [SOG] INDICATES FILL SLABS, S.A.D.
6. FOR AREA DRAIN LOCATIONS, S.A.D.
7. SHORING AND UNDERPINNING OF ADJACENT PROPERTY, WHEN REQUIRED, SHALL BE DESIGNED BY OTHERS.
8. VERIFY ELEVATOR OPENINGS AND PIT DIMENSIONS WITH ELEVATOR MANUFACTURER PRIOR TO CONSTRUCTION.
9. TOP OF CONCRETE S.O.G. EL. = 0'-0", U.N.O.
   WHERE 0'-0" = 48.50', SEE CIVIL DRAWINGS.
10. [F-1 / -1'-0"] INDICATES FOOTING TYPE, SEE 5/S3.02
    INDICATES TOP OF FOOTING ELEVATION, RELATIVE TO FINISHED FLOOR = 0'-0"
11. 'S.J.' INDICATES SHRINKAGE JOINT IN S.O.G., SEE 11/S3.01
    'W.P.J.' INDICATES WEAKENED PLANE JOINT IN S.O.G., SEE 11/S3.01
12. FOR S.O.G. BLOCKOUT AT COLUMNS AND WALLS, SEE DETAILS 9 & 14/S3.01

FOUNDATION SIZES SHOWN ARE ESTIMATES BASED ON PRELIMINARY ALLOWABLE BEARING VALUES PROVIDED ON 8/15/17. FINAL SIZES WILL BE DETERMINED AFTER RECEIPT OF PROJECT GEOTECHNICAL REPORT.

BLDG D - FOUNDATION PLAN

SCALE: 1/8" = 1'-0" | KPFF | 1 | S2.01

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**OWNER:** SRCS VENETIA VALLEY K-8

**PROJECT NAME:** CLASSRROM REPLACEMENT AND NEW MPR BUILDING

**CLIENT ADDRESS:** 177 N San Pedro Rd, San Rafael, CA 94903

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**DATE ISSUED:** 08-18-2017

**PROJECT NO:** 1700117.00

**SCALE:** As Shown

**SHEET NUMBER:** S2.01

**SHEET TITLE:**

# BLDG D - FOUNDATION PLAN


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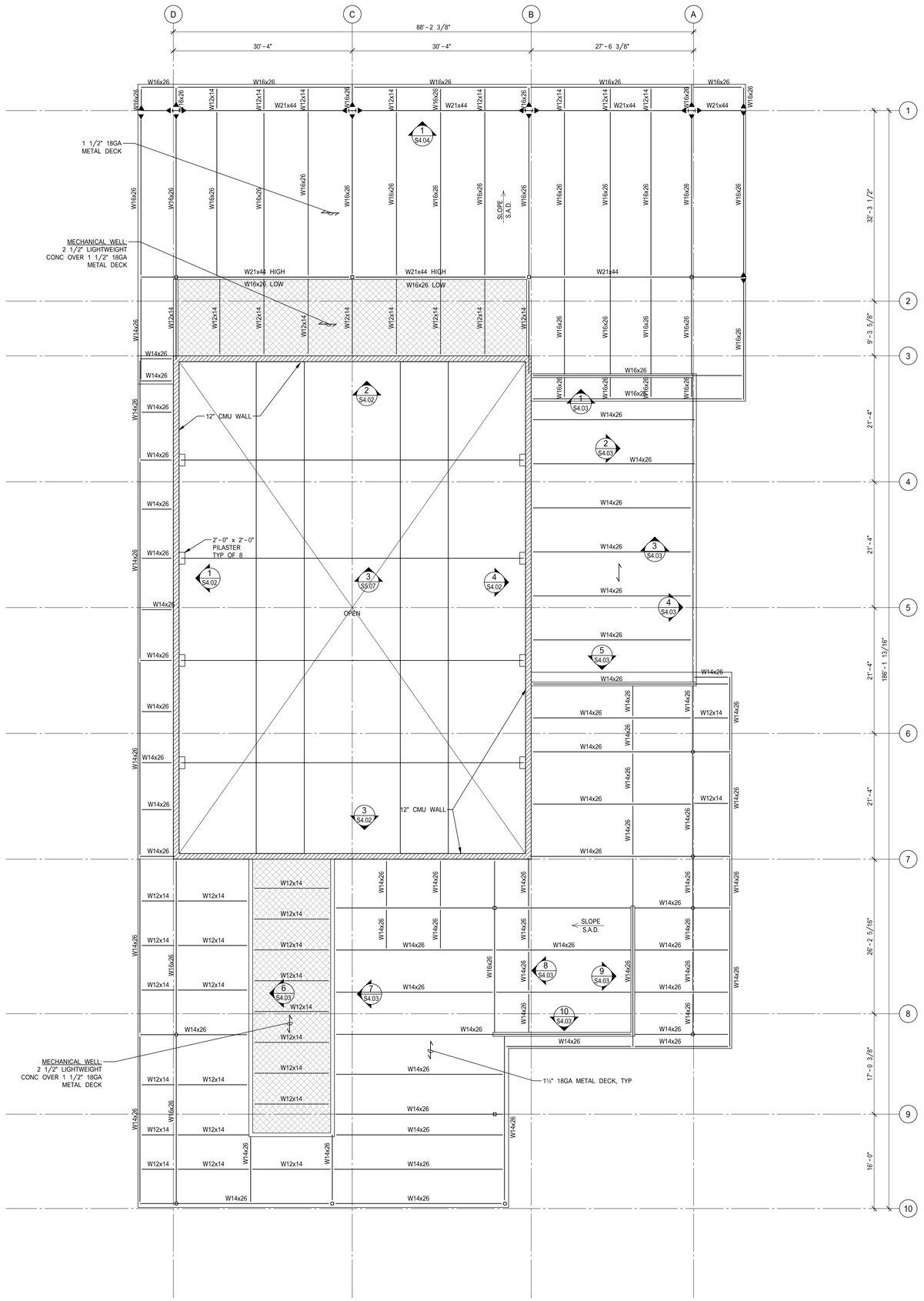
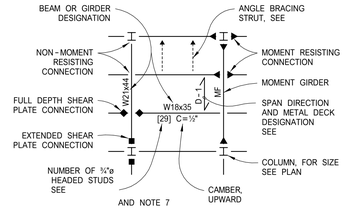



BLDG D - LOW ROOF FRAMING PLAN

SCALE: 1/8" = 1'-0" | KPFF | 1 | S2.02

NOTES:

1. FOR GENERAL NOTES REFER TO SHEETS S1.01 THRU S1.03
   FOR TYPICAL STEEL FRAMING DETAILS REFER TO SHEETS S5.01 THRU S5.06
2. VERIFY ALL DIMENSIONS, ELEVATIONS, FINISH SURFACES, SLOPES, DRAINS, SLAB DEPRESSIONS, ETC., WITH ARCHITECTURAL DRAWINGS, PRIOR TO START OF CONSTRUCTION.
3. FOR LOCATION AND EXTENT OF EXTERIOR WALL ASSEMBLIES AND OPENINGS, SEE ARCHITECTURAL DRAWINGS.
4. FOR LOCATION, SIZE, AND EXTENT OF CURBS, S.A.D.
5. FOR AREA DRAIN LOCATIONS, S.A.D.
6. TOP OF STEEL AT COLUMN CENTER LINES IS SHOWN THUS: 14.00
   WHERE 0'-0" = 48.50', SEE CIVIL DRAWINGS
7. WHEN CONC FILL ON DECK OCCURS, ALL SUPPORTING BEAMS AND GIRDERS SHALL HAVE 3/4" DIA STUDS AT 12"o.c. MAX UNLESS NOTED OTHERWISE.
8. STEEL FRAMING AND CONNECTIONS ARE SHOWN ON PLAN AS THUS:




9. FOR TYPICAL BEAM AND GIRDER CONNECTIONS, SEE SHEET S5.03
10. FOR TYPICAL METAL DECK DETAILS, SEE SHEET S5.01
11. FOR EDGE OF METAL DECK AT INTERIOR OPENINGS, S.A.D.

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**DATE ISSUED:** 08-18-2017

**PROJECT NO:** 1700117.00

**SCALE:** As shown

**SHEET NUMBER:** S2.02

**SHEET TITLE:**

# BLDG D - LOW ROOF FRAMING PLAN


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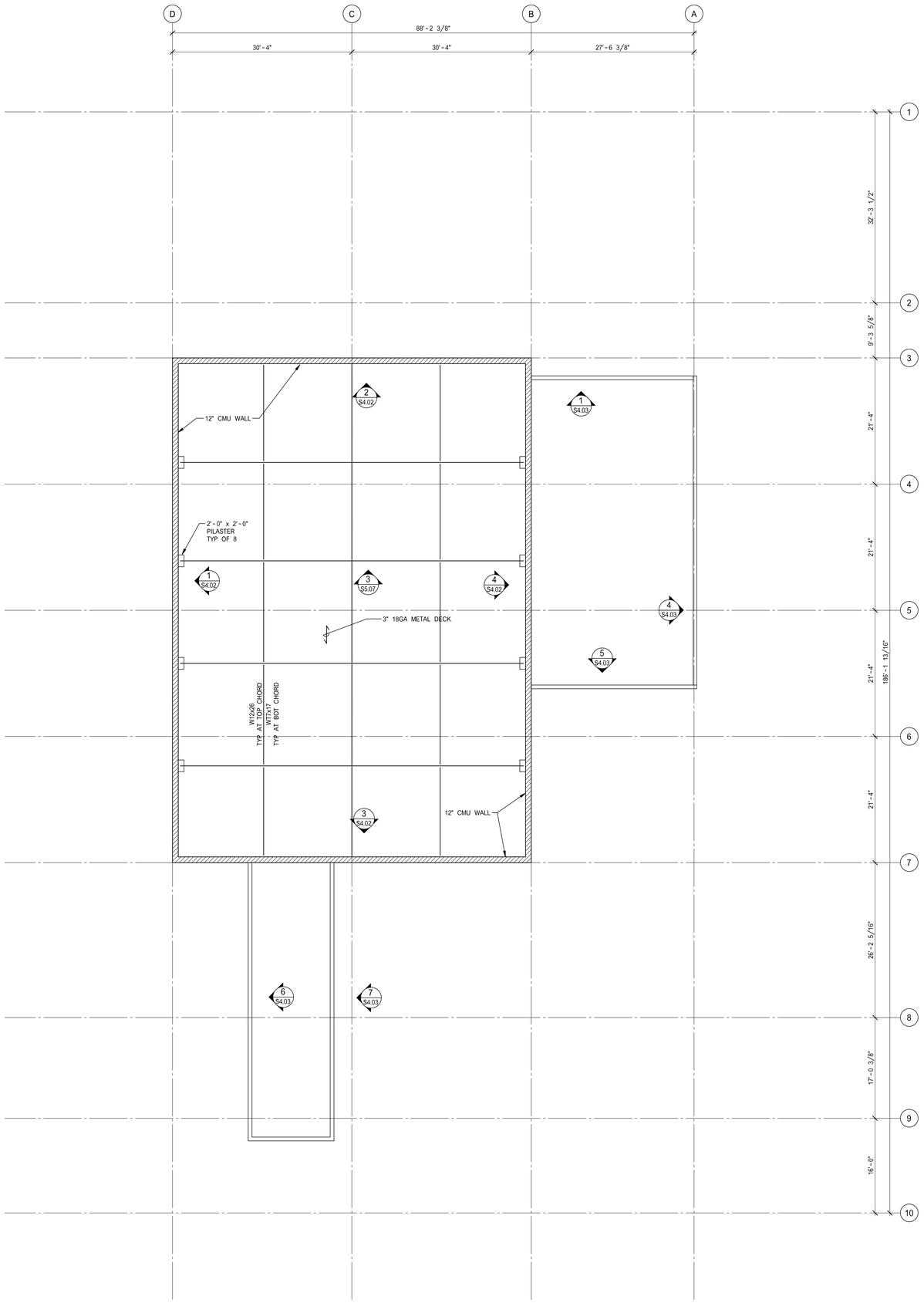


BLDG D - HIGH ROOF FRAMING PLAN

SCALE: 1/8" = 1'-0" | KPFF | 1 | S2.03

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**PROJECT NO:** 1700117.00

**SCALE:** AS NOTED

**SHEET NUMBER:** S2.03

**SHEET TITLE:**

# BLDG D - HIGH ROOF FRAMING PLAN

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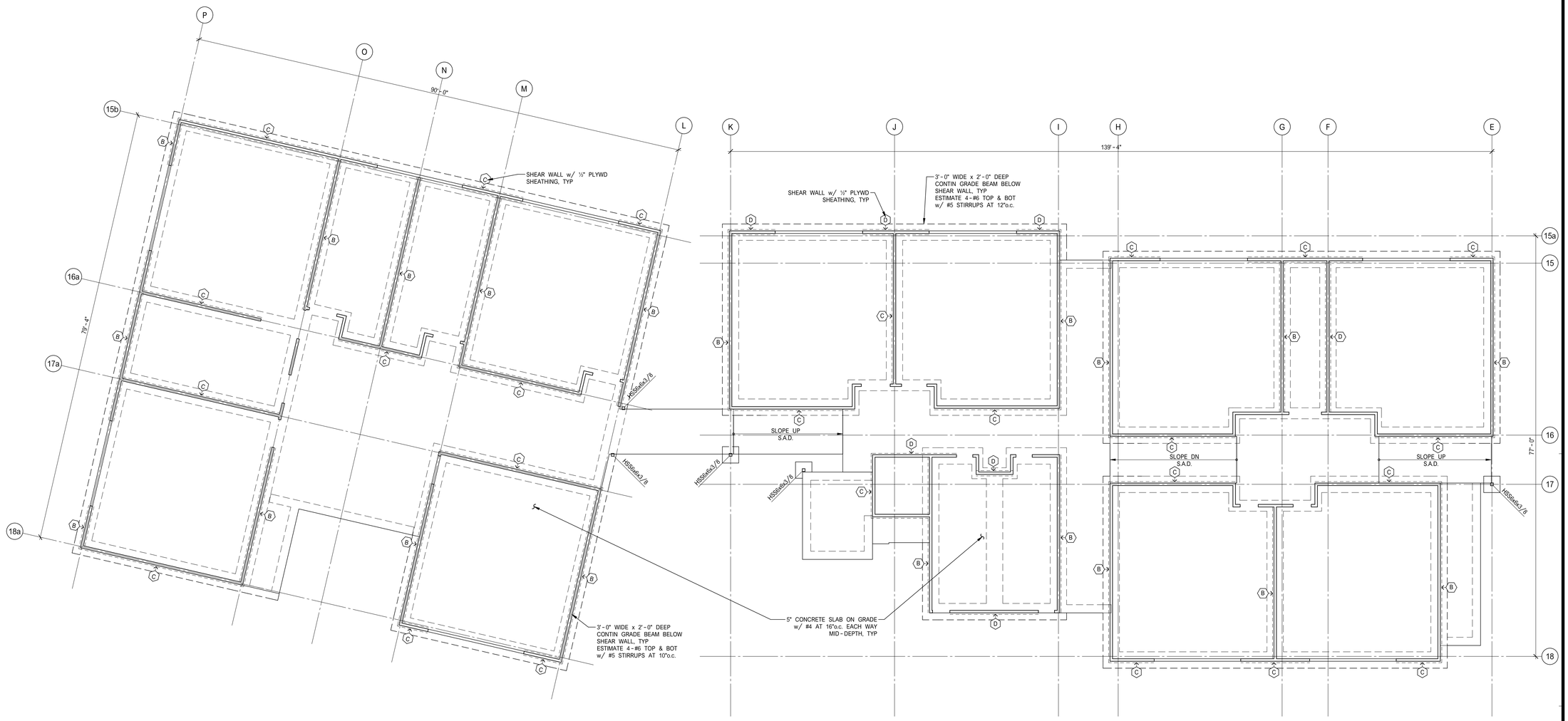


FOUNDATION SIZES SHOWN ARE ESTIMATES BASED ON PRELIMINARY ALLOWABLE BEARING VALUES PROVIDED ON 8/15/17. FINAL SIZES WILL BE DETERMINED AFTER RECEIPT OF PROJECT GEOTECHNICAL REPORT.

NOTES:

1. FOR SYMBOLS AND ABBREVIATIONS REFER TO SHEET S0.01
   FOR GENERAL NOTES REFER TO SHEET S1.01 - S1.3
   FOR TYPICAL CONCRETE DETAILS REFER TO SHEET S3.01
   FOR FOUNDATION DETAILS REFER TO SHEET S3.11
2. VERIFY ALL DIMENSIONS, ELEVATIONS, FINISH SURFACES, SLOPES, DRAINS, SLAB DEPRESSIONS, ETC., WITH ARCHITECTURAL DRAWINGS, PRIOR TO START OF CONSTRUCTION.
3. SPECIFICATIONS AND DETAILING OF ALL WATERPROOFING AND DRAINAGE ITEMS, ALTHOUGH INDICATED ON THE STRUCTURAL DRAWINGS FOR GENERAL INFORMATION PURPOSES ONLY, ARE THE DESIGN RESPONSIBILITY OF OTHERS.
4. FOR LOCATION, SIZE, AND EXTENT OF CURBS, S.A.D.
5. INDICATES SLAB DEPRESSIONS, FOR DEPTH AND SLOPE S.A.D.
   INDICATES FILL SLABS, S.A.D.
6. FOR AREA DRAIN LOCATIONS, S.A.D.
7. SHORING AND UNDERPINNING OF ADJACENT PROPERTY, WHEN REQUIRED, SHALL BE DESIGNED BY OTHERS.
8. TOP OF CONCRETE S.O.G. EL. = 0'-0", U.N.O.,
   WHERE 0'-0" = ___.__, SEE CIVIL DRAWINGS.
9. ' S.J. ' INDICATES SHRINKAGE JOINT IN S.O.G., SEE 11/S3.01
   ' W.P.J. ' INDICATES WEAKENED PLANE JOINT IN S.O.G., SEE 11/S3.01
10. (A) INDICATES PLYWOOD SHEAR WALL, FOR SCHEDULE SEE __/S__.__
11. HD2A INDICATES SHEAR WALL HOLDOWN, SEE __/S__.__

BLDG E1, E2, E3 - FOUNDATION PLAN

SCALE: 1/8" = 1'-0"

1

KPFF S2.11

**OWNER:** SRCS VENETIA VALLEY K-8

**PROJECT NAME:** CLASSRROM REPLACEMENT AND NEW MPR BUILDING

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**SHEET NUMBER:** S2.11

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# BLDG E1, E2, E3 - FOUNDATION PLAN

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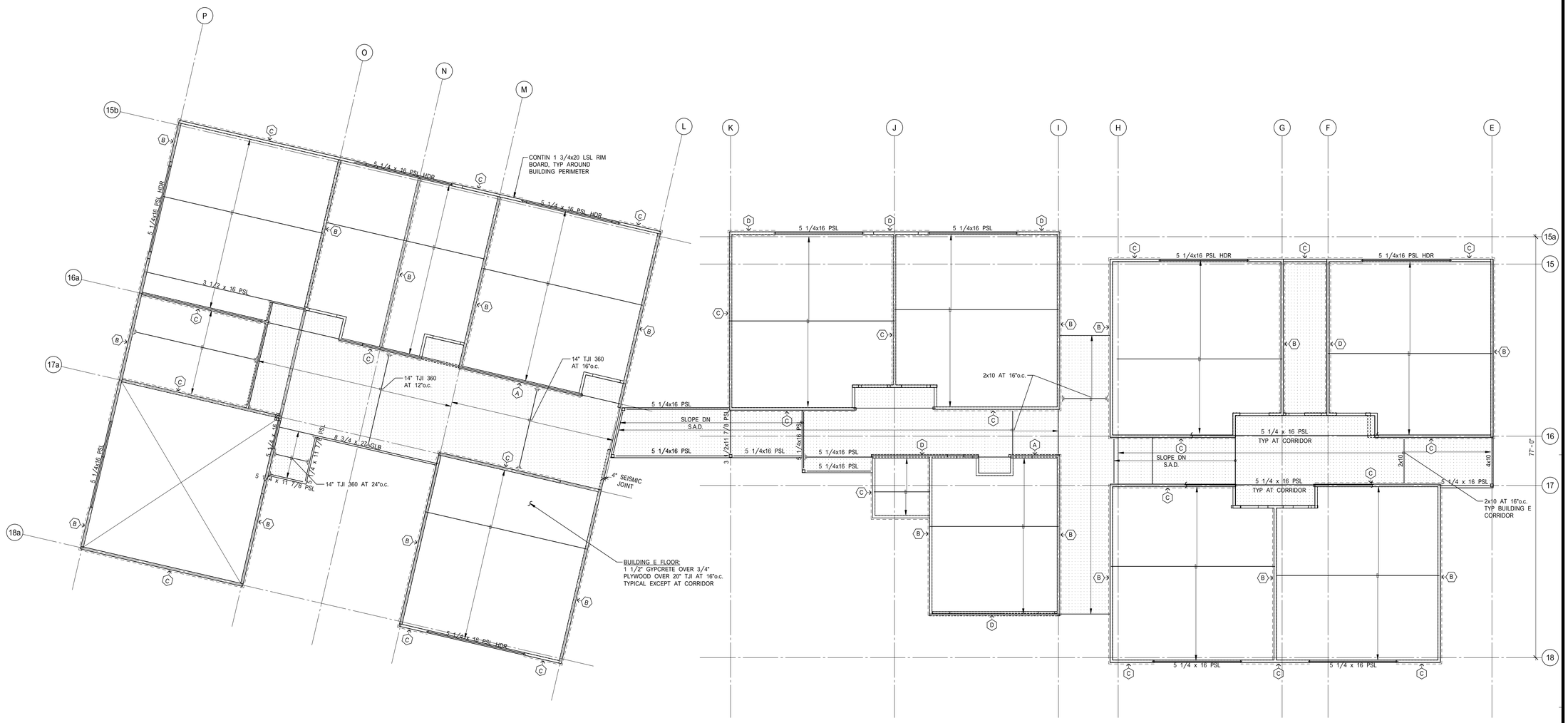


NOTES:

1. FOR SYMBOLS AND ABBREVIATIONS, REFER TO SHEET S0.01
   FOR GENERAL NOTES, REFER TO SHEETS S1.01 - S1.03
   FOR TYPICAL WOOD WALL DETAILS, REFER TO SHEETS S6.11 & S6.12
   FOR TYPICAL WOOD WALL/FLOOR FRAMING DETAILS, REFER TO SHEET S6.13
   FOR TYPICAL WOOD WALL/ROOF FRAMING DETAILS, REFER TO SHEET S7.11
2. VERIFY ALL DIMENSIONS, ELEVATIONS, FINISH SURFACES, SLOPES, DRAINS, SLAB DEPRESSIONS, ETC., WITH ARCHITECTURAL DRAWINGS, PRIOR TO START OF CONSTRUCTION.
3. FOR LOCATION AND EXTENT OF EXTERIOR WALL ASSEMBLIES AND OPENINGS, SEE ARCHITECTURAL DRAWINGS.
4. SPECIFICATIONS AND DETAILING OF ALL WATERPROOFING AND DRAINAGE ITEMS, ALTHOUGH INDICATED ON THE STRUCTURAL DRAWINGS FOR GENERAL INFORMATION PURPOSES ONLY, ARE THE DESIGN RESPONSIBILITY OF OTHERS.
5. WOOD STUD WALL SCHEDULES, U.N.O.:
   FOR INTERIOR BEARING/SHEAR WALLS, SEE __/S__.__
   FOR INTERIOR NON-BEARING/SHEAR WALLS AT FOLLOWING UNIT TYPES, SEE __/S__
   FOR EXTERIOR STUD WALL, SEE __/S__.__

WALL FRAMING

6. 6x6 — INDICATES WOOD POST BELOW FRAMING, SEE PLAN
   6x6 — INDICATES WOOD POST ABOVE FRAMING, SEE PLAN
   HSS — INDICATES STEEL POST BELOW FRAMING, SEE PLAN
   HSS — INDICATES STEEL POST ABOVE FRAMING, SEE PLAN
7. (A) — INDICATES PLYWOOD SHEAR WALL TYPE, SEE SCHEDULE __/S__.__
8. INDICATES SHEAR WALL TIEDOWN ASSEMBLY, SEE SCHEDULE 15/S8.2
9. INDICATES NON-BEARING PARTITION WALL, SEE __/S__.__
10. INDICATES WALL ABOVE FLOOR FRAMING
11. INDICATES WALL DOOR HEADER, SEE SCHEDULE __/S__.__
    INDICATES WALL WINDOW HEADER, SEE SCHEDULE __/S__.__
12. INDICATES PARTITION WALL HEADER, SEE SCHEDULE __/S__.__
13. INDICATES FLUSH FRAMING CONDITION

FLOOR AND ROOF FRAMING

14. T.O. PLYWOOD SHEATHING EL = S.A.D.
15. PLYWOOD SHEATHING TO BE GLUED AND NAILED TO JOISTS, SEE GENERAL NOTES AND __/S__.__
16. TYPICAL CLASSROOM UNIT FLOOR FRAMING, U.N.O.
    1 1/2" GYPCRETE OVER 3/4" T&G PLYWOOD SHEATHING OVER TJI JOISTS, FOR JOIST SIZE AND SPACING, SEE PLAN AND JOIST SCHEDULE.
17. TYPICAL CORRIDOR FLOOR FRAMING, U.N.O.
    3 1/2" LTWT CONC OVER 3/4" T&G PLYWOOD SHEATHING OVER JOISTS, FOR JOIST SIZE AND SPACING, SEE PLAN AND JOIST SCHEDULE.
18. TYPICAL ROOF FRAMING, U.N.O.
    5/8" PLYWOOD SHEATHING OVER TJI JOISTS, FOR JOIST SIZE & SPACING, SEE PLAN AND JOIST SCHEDULE.
19. 'T1' INDICATES FLOOR TIE STRAP, SEE SCHEDULE __/S__.__
20. INDICATES BLOCKED DIAPHRAGM, SEE __/S__.__ FOR EXTENTS, SEE PLAN

BLDG E1, E2, E3 - LEVEL 2 FRAMING PLAN

SCALE: 1/8" = 1'-0" | 1
KPFF | S2.12

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**OWNER:** SRCS VENETIA VALLEY K-8

**PROJECT NAME:** CLASSRROM REPLACEMENT AND NEW MPR BUILDING

**CLIENT ADDRESS:** 177 N San Pedro Rd, San Rafael, CA 94903

**DESIGN DEVELOPMENT SET**

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**DATE ISSUED:** 08-18-2017
**PROJECT NO:** 1700117.00
**SCALE:** As Noted

**SHEET NUMBER:** S2.12

**SHEET TITLE:**

# BLDG E1, E2, E3 - LEVEL 2 FRAMING PLAN


kpff
45 Fremont Street, 28th floor
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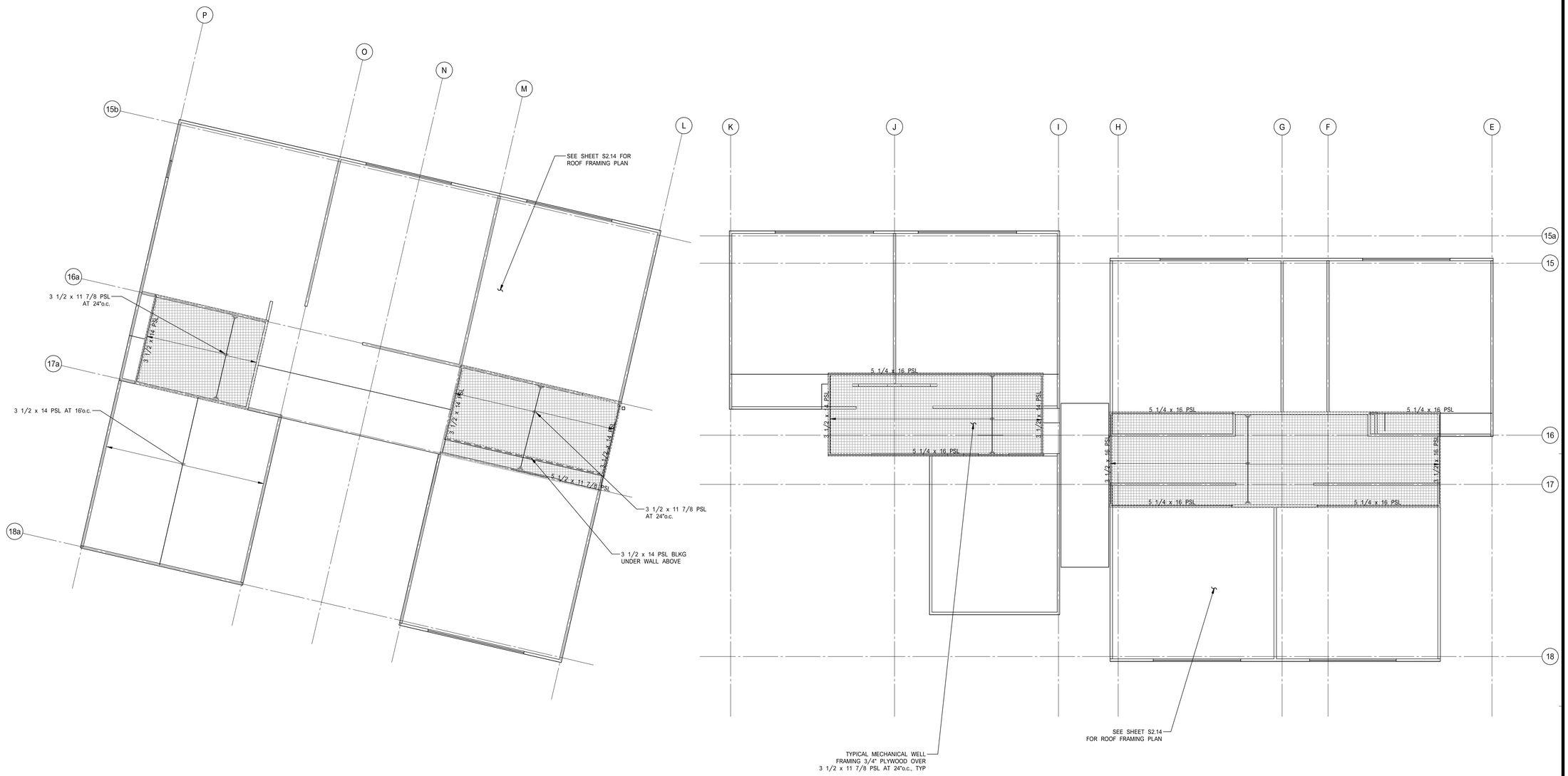


BLDG E1, E2, E3 - MECHANICAL WELL/LOW ROOF FRAMING PLAN

SCALE: 1/8" = 1'-0" | KPFF | 1 | S2.13

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**DATE ISSUED:** 08-18-2017

**PROJECT NO:** 1700117.00

**SCALE:** AS NOTED

**SHEET NUMBER:** S2.13

**SHEET TITLE:**

# BLDG E1, E2, E3 - MECH WELL / LOW ROOF FRAMING PLAN

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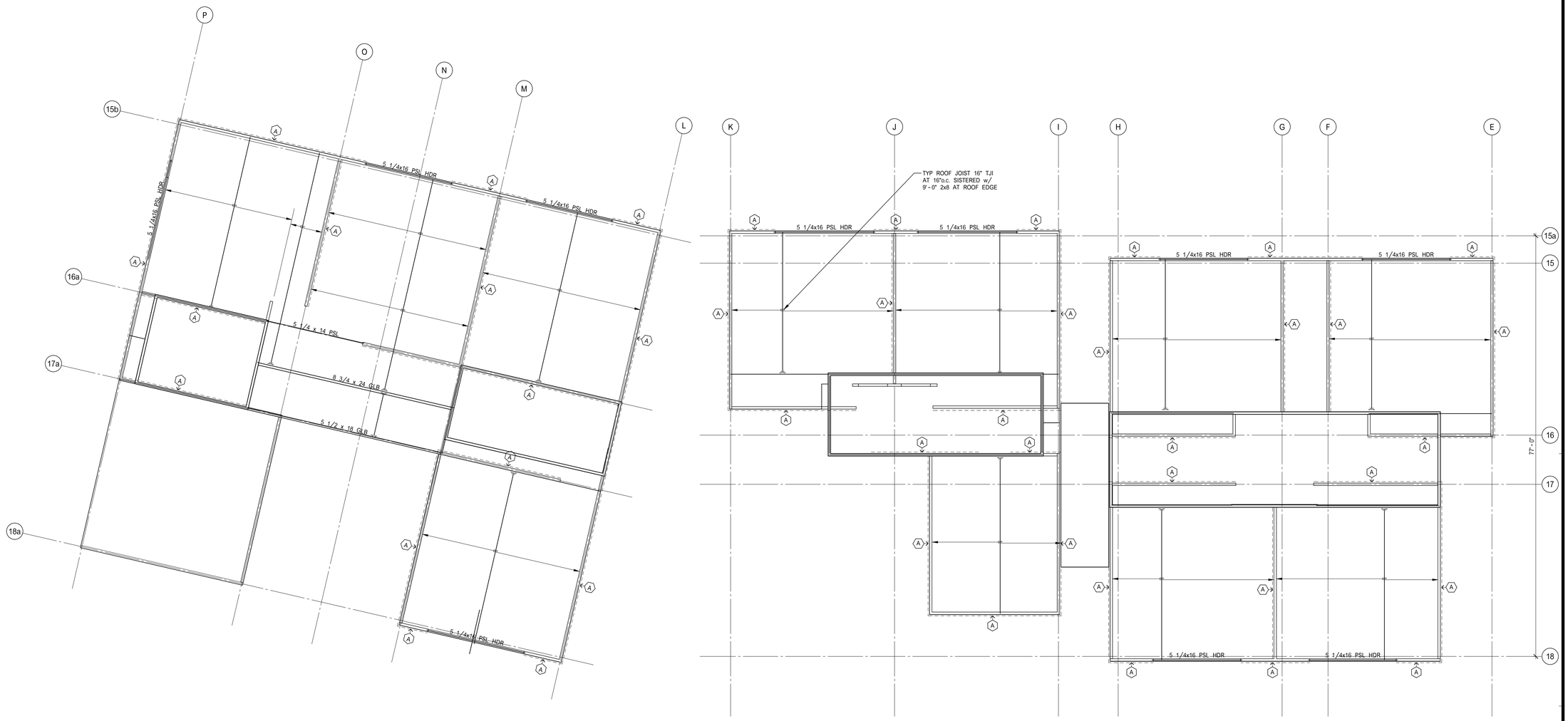


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BLDG E1, E2, E3 - ROOF FRAMING PLAN

SCALE: 1/8" = 1'-0" | 1 | KPFF | S2.14

**OWNER:** SRCS VENETIA VALLEY K-8

**PROJECT NAME:** CLASSRROM REPLACEMENT AND NEW MPR BUILDING

**CLIENT ADDRESS:** 177 N San Pedro Rd, San Rafael, CA 94903

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**DATE ISSUED:** 08-18-2017

**PROJECT NO:** 1700117.00

**SCALE:** AS NOTED

**SHEET NUMBER:** S2.14

**SHEET TITLE:**

# BLDG E1, E2, E3 - ROOF FRAMING PLAN

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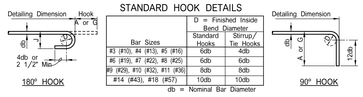
## STANDARD HOOK DETAILS

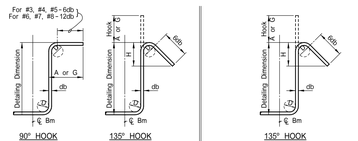



| Bar Sizes | D = Finished Inside Bend Diameter: Standard Hooks | Stirrup/Tie Hooks |
|---|---|---|
| #3 (#10), #4 (#13), #5 (#16) | 6db | 4db |
| #6 (#19), #7 (#22), #8 (#25) | 6db | 6db |
| #9 (#29), #10 (#32), #11 (#36) | 8db | 8db |
| #14 (#43), #18 (#57) | 10db | 10db |

db = Nominal Bar Diameter

| Bar Sizes | Dimensions of standard 180 degree hooks, all grades: A or G | J | D | Dimensions of standard 90 degree hooks, all grades: A or G | D |
|---|---|---|---|---|---|
| #3 (#10) | 5" | 3" | 2 1/4" | 6" | 2 1/4" |
| #4 (#13) | 6" | 4" | 3" | 8" | 3" |
| #5 (#16) | 7" | 5" | 3 3/4" | 10" | 3 3/4" |
| #6 (#19) | 8" | 6" | 4 1/2" | 1'-0" | 4 1/2" |
| #7 (#22) | 10" | 7" | 5 1/4" | 1'-2" | 5 1/4" |
| #8 (#25) | 11" | 8" | 6" | 1'-4" | 6" |
| #9 (#29) | 1'-3" | 11 3/4" | 9 1/2" | 1'-7" | 9 1/2" |
| #10 (#32) | 1'-5" | 1'-1 1/4" | 10 3/4" | 1'-10" | 10 3/4" |
| #11 (#36) | 1'-7" | 1'-2 3/4" | 12" | 2'-0" | 12" |
| #14 (#43) | 2'-3" | 1'-9 3/4" | 18 1/4" | 2'-7" | 18 1/4" |
| #18 (#57) | 3'-0" | 2'-4 1/2" | 24" | 3'-5" | 24" |

(#10) INDICATES METRIC BAR SIZE  D = Bend diameter




Stirrup Hooks (Tie Bends Similar)

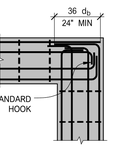
| Bar Size | D | 90° A or G | 135° A or G | 135° Approx H |
|---|---|---|---|---|
| #3 (#10) | 1 1/2" | 4" | 4" | 2 1/2" |
| #4 (#13) | 2" | 4 1/2" | 4 1/2" | 3" |
| #5 (#16) | 2 1/2" | 6" | 5 1/2" | 3 3/4" |
| #6 (#19) | 4 1/2" | 1'-0" | 7 3/4" | 4 1/2" |
| #7 (#22) | 5 1/4" | 1'-2" | 9" | 5 1/4" |
| #8 (#25) | 6" | 1'-4" | 10 1/4" | 6" |

Seismic Stirrup/Tie

| Bar Size | D | 135° Seismic Hook A or G | Approx H |
|---|---|---|---|
| #3 (#10) | 1 1/2" | **4 1/4"** | 3" |
| #4 (#13) | 2" | 4 1/2" | 3" |
| #5 (#16) | 2 1/2" | 5 1/2" | 3" |
| #6 (#19) | 4 1/2" | 7 3/4" | 4 1/2" |
| #7 (#22) | **5 1/4"** | 9" | 5 1/4" |
| #8 (#25) | 6" | 10 1/4" | 6" |

## CONCRETE REINF HOOKS

SCALE: NONE | KPFF K1010 | S3.01 | **1**




END CONDITION  INTERSECTION  CORNER

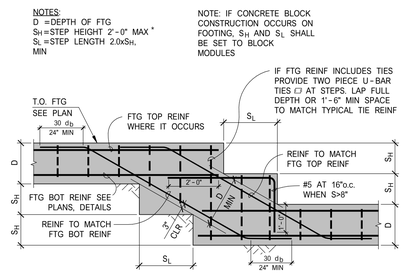
NOTE:
REINFORCEMENT SHOWN ON FOUNDATION DETAILS AND OTHER SPECIFICALLY REFERENCED DETAILS TAKE PRECEDENCE OVER REINFORCEMENT SHOWN HERE

## FOOTING REINF

SCALE: NONE | KPFF K1017 | S3.01 | **2**

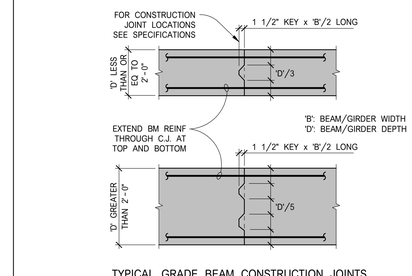
NOTES:
D = DEPTH OF FTG
$S_H$ = STEP HEIGHT 2'-0" MAX *
$S_L$ = STEP LENGTH 2.0x$S_H$, MIN

NOTE: IF CONCRETE BLOCK CONSTRUCTION OCCURS ON FOOTING, $S_H$ AND $S_L$ SHALL BE SET TO BLOCK MODULES




## STEPPED FOOTING DETAIL

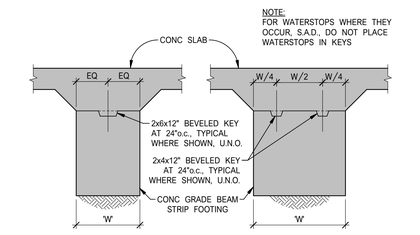
SCALE: NONE | KPFF K1020 | S3.01 | **3**




TYPICAL GRADE BEAM CONSTRUCTION JOINTS

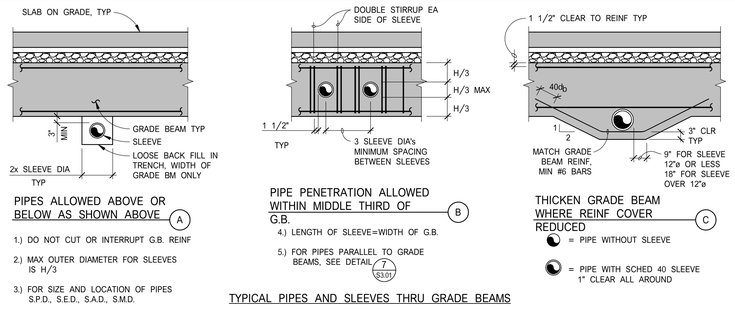
## DETAIL

SCALE: NONE | KPFF K1080 | S3.01 | **4**




## GRADE BEAM KEYS

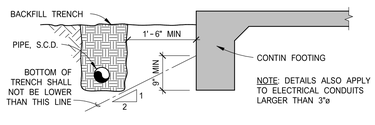
SCALE: NONE | KPFF K1400 | S3.01 | **5**




TYPICAL PIPES AND SLEEVES THRU GRADE BEAMS

## DETAIL

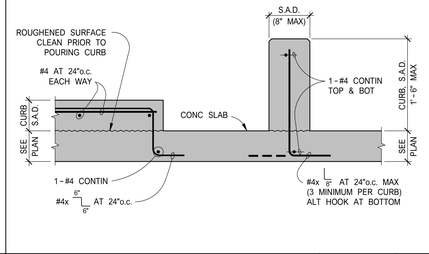
SCALE: NONE | KPFF K1083 | S3.01 | **6**




PIPES RUNNING PARALLEL TO FOOTING

## PIPE TRENCH AT FOOTING

SCALE: NONE | KPFF K0000 | S3.01 | **7**




## CURBS ON SLAB

SCALE: NONE | KPFF K1060 | S3.01 | **8**




## SLAB BLOCKOUT

SCALE: NONE | KPFF K1037 | S3.01 | **9**




## SUMP PIT

SCALE: NONE | KPFF K1065 | S3.01 | **10**




NOTES:

1. FOR SLAB THICKNESS, REINFORCEMENT, AND CONTROL JOINT LOCATIONS, SEE PLAN.
2. LOCATE W.P.J. TO ENCLOSE APPROXIMATE SQUARE AREAS OF 600 SQ FT MAXIMUM.
3. LOCATE S.J. TO ENCLOSE APPROXIMATE AREAS OF 2,400 SQ FT MAXIMUM.
4. SHRINKAGE JOINTS (S.J.) MAYB BE USED AS CONSTRUCTION JOINT (C.J.) FOR SLABS ON GRADE, WHERE NEEDED.
5. WOOD EDGE FORM WITH BEVELED 1x KEYS x 12" LONG AT 24"o.c. MAY BE USED IN LIEU OF KEYED KOLD JOINTS.

## S.O.G. CONTROL JOINTS

SCALE: NONE | KPFF K1035 | S3.01 | **11**




## DEPRESSED SLAB ON GRADE

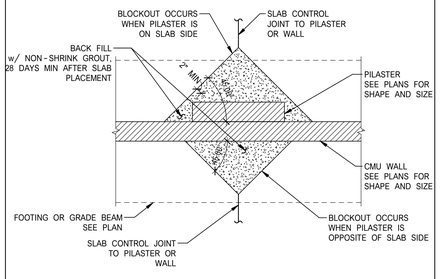
SCALE: NONE | KPFF K1083 | S3.01 | **12**




NOTE:
REFER TO THE GEOTECHNICAL REPORT FOR ADDTIONAL INFORMATION ON SUB-GRADE PREPARATION AND SLAB ON GRADE CONSTRUCTION.

## SLAB ON GRADE - EXTERIOR

SCALE: NONE | KPFF K0000 | S3.01 | **13**




AT WALL PILASTERS

## SLAB BLOCKOUT

SCALE: NONE | KPFF K0000 | S3.01 | **14**

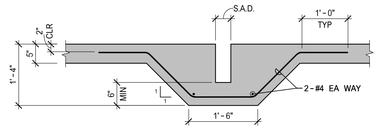
| BAR SIZE | TOP REINFORCEMENT: DEVELOPMENT LENGTH ($l_d$) | TOP REINFORCEMENT: SPLICE LENGTH ($l_s$) | OTHER REINFORCEMENT: DEVELOPMENT LENGTH ($l_d$) | OTHER REINFORCEMENT: SPLICE LENGTH ($l_s$) |
|---|---|---|---|---|
| #3 | 1'-9" | 2'-4" | 1'-3" | 1'-8" |
| #4 | 2'-2" | 2'-10" | 1'-7" | 2'-1" |
| #5 | 2'-8" | 3'-6" | 2'-0" | 2'-7" |
| #6 | 3'-3" | 4'-2" | 2'-5" | 3'-1" |
| #7 | 4'-6" | 5'-10" | 3'-6" | 4'-6" |
| #8 | 5'-2" | 6'-9" | 4'-0" | 5'-2" |
| #9 | 5'-10" | 7'-7" | 4'-6" | 5'-10" |
| #10 | 6'-6" | 8'-6" | 5'-0" | 6'-6" |
| #11 | 7'-3" | 9'-3" | 5'-7" | 7'-3" |

1. USE SPLICE LENGTH ($l_s$) INDICATED ON TABLE FOR ALL DOWEL LENGTHS NOT SHOWN ON PLANS UNLESS OTHERWISE PERMITTED BY ENGINEER.
2. DEVELOPMENT LENGTHS ($l_d$) AND SPLICE LENGTHS ($l_s$) SHOWN IN THE SCHEDULE ABOVE ARE IN ACCORDANCE WITH THE 2013 IBC AND CORRESPOND TO GRADE 60 BARS EMBEDDED IN NORMAL WEIGHT CONCRETE (f'c=4000 PSI OR GREATER) FOR CONCRETE WITH f'c=3000 PSI MULTIPLY VALUES IN TABLE BY 1.16. FOR LT WT AGGREGATE CONCRETE, MULTIPLY VALUES IN TABLE BY 1.3. THESE MULTIPLIERS ARE CUMULATIVE.
3. THIS SCHEDULE SHALL BE USED WHERE DEVELOPMENT AND SPLICE LENGTHS ARE NOT SPECIFICALLY DETAILED AND DIMENSIONED ON THE DRAWINGS.
4. THE SCHEDULE ABOVE IS APPLICABLE FOR THE FOLLOWING CONDITIONS:
   a) CLEAR SPACING OF BARS BEING DEVELOPED OR SPLICED NOT LESS THAN $d_b$, CLEAR COVER NOT LESS THAN $d_b$, AND STIRRUPS OR TIES THROUGHOUT $l_d$ NOT LESS THAN THE CODE MINIMUM. OR
   b) CLEAR SPACING OF BARS BEING DEVELOPED OR SPLICED NOT LESS THAN $2d_b$, AND CLEAR COVER NOT LESS THAN $d_b$.
5. "TOP" REINFORCEMENT IS DEFINED AS HORIZONTAL REINFORCEMENT SO PLACED THAT MORE THAN 12" OF FRESH CONCRETE IS CAST IN THE MEMBER BELOW THE DEVELOPMENT OR SPLICE LENGTH. "OTHER" REINFORCEMENT INCLUDES ALL VERTICAL BARS AND HORIZONTAL BARS WITH LESS THAN 12" OF CONCRETE CAST BELOW BAR.
6. WHERE BARS OF DIFFERENT SIZE ARE LAP SPLICED, SPLICE LENGTH SHALL BE THE LARGER OF DEVELOPMENT LENGTH OF LARGER BAR, OR SPLICE LENGTH OF SMALLER BAR.

## CONCRETE REINF SCHEDULE

SCALE: 1" = 1'-0" | KPFF K0000 | S3.01 | **15**

NOTE:
GENERAL CONTRACTOR TO COORDINATE LOCATION OF SLEEVES PRIOR TO PLACING CONCRETE.




VOLLEYBALL/BADMINTON STANDARD SLEEVE

## DETAIL

SCALE: 3/4" = 1'-0" | KPFF K0000 | S3.01 | **16**

**OWNER:** SRCS VENETIA VALLEY K-8

**PROJECT NAME:** CLASSROOM REPLACEMENT AND NEW MPR BUILDING

**CLIENT ADDRESS:** 177 N San Pedro Rd, San Rafael, CA 94903

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# TYPICAL DETAILS - CONCRETE


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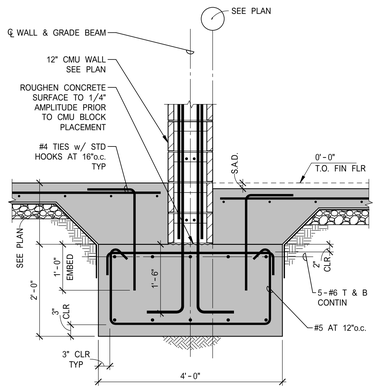
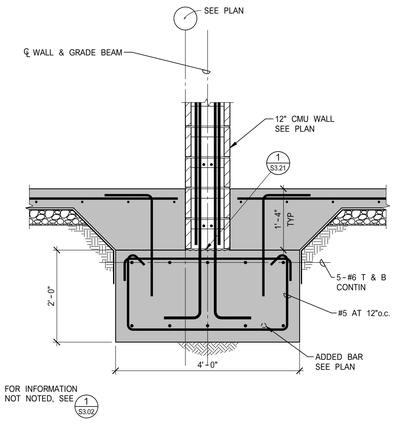



SECTION — SCALE: 3/4" = 1'-0" — KPFF — K0000 — **1** — S3.02




FOR INFORMATION NOT NOTED, SEE 1 S3.02

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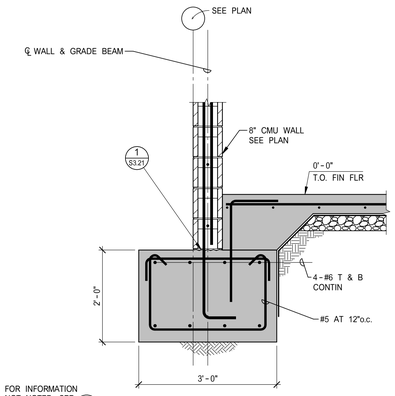


FOR INFORMATION NOT NOTED, SEE 1 S3.02

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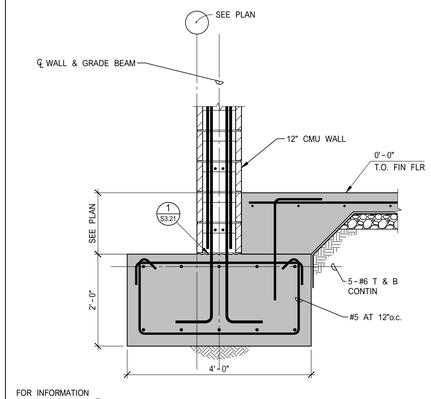


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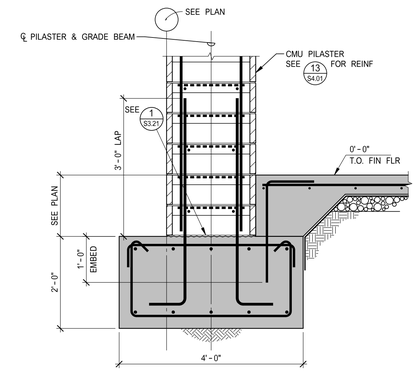


FOR INFORMATION NOT NOTED, SEE 1 S3.02

SECTION — SCALE: 3/4" = 1'-0" — KPFF — K0000 — **5** — S3.02




FOR INFORMATION NOT NOTED, SEE 1 S3.02

SECTION — SCALE: 3/4" = 1'-0" — KPFF — K0000 — **6** — S3.02




FOR INFORMATION NOT NOTED, SEE 1 S3.02

SECTION — SCALE: 3/4" = 1'-0" — KPFF — K0000 — **7** — S3.02




FOR INFORMATION NOT NOTED, SEE 1 S3.02

SECTION — SCALE: 3/4" = 1'-0" — KPFF — K0000 — **8** — S3.02




FOR INFORMATION NOT NOTED, SEE 1 S3.02

SECTION — SCALE: 3/4" = 1'-0" — KPFF — K0000 — **9** — S3.02




FOR INFORMATION NOT NOTED, SEE 1 S3.02

SECTION — SCALE: 3/4" = 1'-0" — KPFF — K0000 — **10** — S3.02

FOUNDATION SIZES SHOWN ARE ESTIMATES BASED ON PRELIMINARY ALLOWABLE BEARING VALUES PROVIDED ON 8/15/17. FINAL SIZES WILL BE DETERMINED AFTER RECEIPT OF PROJECT GEOTECHNICAL REPORT.

**OWNER:** SRCS VENETIA VALLEY K-8

**PROJECT NAME:** CLASSRROM REPLACEMENT AND NEW MPR BUILDING

**CLIENT ADDRESS:** 177 N San Pedro Rd, San Rafael, CA 94903

DESIGN DEVELOPMENT SET

IDENTIFICATION STAMP
DIVISION OF THE STATE ARCHITECT
OFFICE OF REGULATION SERVICES

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AC_____ FLS_____ SS_____

DATE _____

**REVISIONS:**

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**DATE ISSUED:** 08-18-2017

**PROJECT NO:** 1700117.00

**SCALE:** AS NOTED

**SHEET NUMBER:** S3.02

**SHEET TITLE:**

# FOUNDATION DETAILS

kpff
45 Fremont Street, 28th floor
San Francisco, CA 94105
415.989.1004 | kpff.com

**SEOR Contact:**
blake.dilsworth@kpff.com
**Day-to-Day Contact:**
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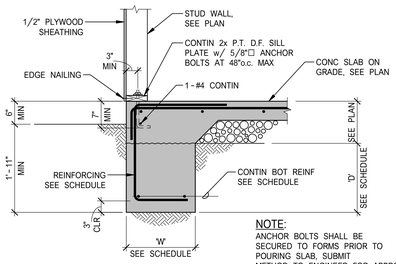
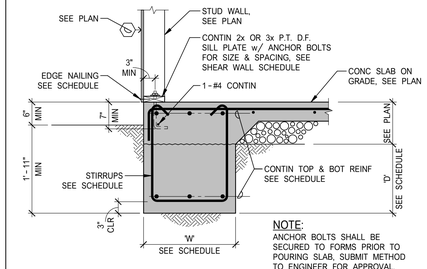



NOTE:
ANCHOR BOLTS SHALL BE SECURED TO FORMS PRIOR TO POURING SLAB, SUBMIT METHOD TO ENGINEER FOR APPROVAL.

TYPICAL EXTERIOR NON-SHEAR WALL

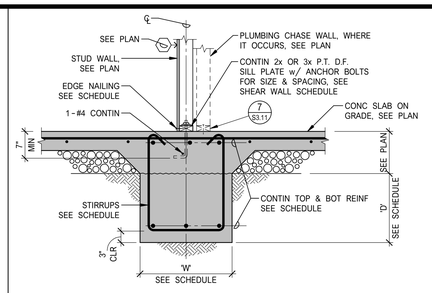
| SECTION | SCALE: 3/4" = 1'-0" | 1 |
|---|---|---|
| | KPFF K0000 | S3.11 |




NOTE:
ANCHOR BOLTS SHALL BE SECURED TO FORMS PRIOR TO POURING SLAB, SUBMIT METHOD TO ENGINEER FOR APPROVAL.

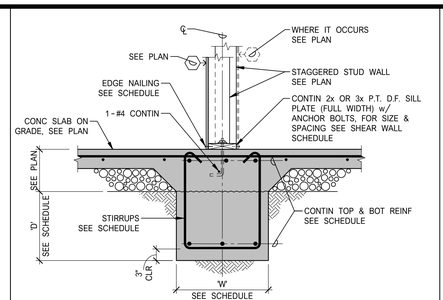
TYPICAL EXTERIOR SHEAR WALL

| SECTION | SCALE: 3/4" = 1'-0" | 2 |
|---|---|---|
| | KPFF K0000 | S3.11 |




TYPICAL INTERIOR SHEAR WALL

| SECTION | SCALE: 3/4" = 1'-0" | 3 |
|---|---|---|
| | KPFF K0000 | S3.11 |




INTERIOR PARTY SHEAR WALL

| SECTION | SCALE: 3/4" = 1'-0" | 4 |
|---|---|---|
| | KPFF K0000 | S3.11 |

| MARK | WIDTH 'W' | DEPTH 'D' | REINFORCING | STIRRUPS | DETAIL | REMARKS |
|---|---|---|---|---|---|---|
| F-1 | | | | | | |
| F-2 | | | | | | |
| F-3 | | | | | | |
| F-4 | | | | | | |
| F-5 | | | | | | |
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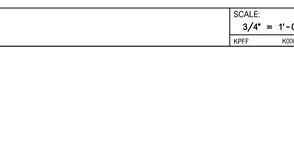
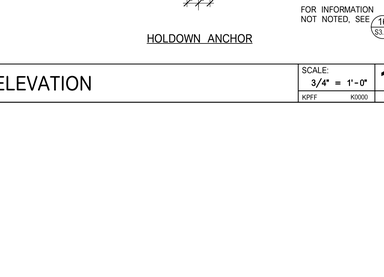
NOTES:

| FOOTING SCHEDULE | SCALE: NONE | 5 |
|---|---|---|
| | KPFF K0000 | S3.11 |



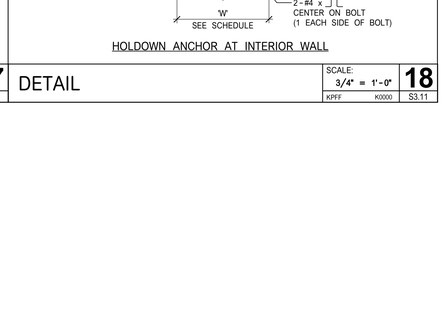

TYPICAL INTERIOR NON-BEARING WALL

| SECTION | SCALE: 3/4" = 1'-0" | 6 |
|---|---|---|
| | KPFF K0000 | S3.11 |




TYPICAL INTERIOR BEARING WALL

| SECTION | SCALE: 3/4" = 1'-0" | 7 |
|---|---|---|
| | KPFF K0000 | S3.11 |




NOTE:
ANCHOR BOLTS SHALL BE SECURED TO FORMS PRIOR TO POURING SLAB, SUBMIT METHOD TO ENGINEER FOR APPROVAL.

EXTERIOR WALL AT STEP

| SECTION | SCALE: 3/4" = 1'-0" | 8 |
|---|---|---|
| | KPFF K0000 | S3.11 |

| NOT USED | SCALE: NONE | 9 |
|---|---|---|
| | KPFF K0000 | S3.11 |

| NOT USED | SCALE: NONE | 10 |
|---|---|---|
| | KPFF K0000 | S3.11 |

| TIEDOWN, HOLDOWN, EMBED AT SLAB CONNECTION | | |
|---|---|---|
| MARK | DETAIL | REMARKS |
| A | | |
| B | | |
| C | | |
| D | | |
| E | | |
| F | | |
| G | | |
| H | | |
| J | | |
| K | | |
| L | | |
| M | | |




TIEDOWN ANCHOR AT EXTERIOR WALL

| DETAIL | SCALE: 3/4" = 1'-0" | 11 |
|---|---|---|
| | KPFF K0000 | S3.11 |




TIEDOWN ANCHOR

| ELEVATION | SCALE: 3/4" = 1'-0" | 12 |
|---|---|---|
| | KPFF K0000 | S3.11 |

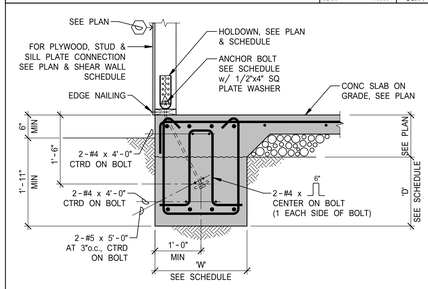



TIEDOWN ANCHOR AT INTERIOR WALL

| DETAIL | SCALE: 3/4" = 1'-0" | 13 |
|---|---|---|
| | KPFF K0000 | S3.11 |

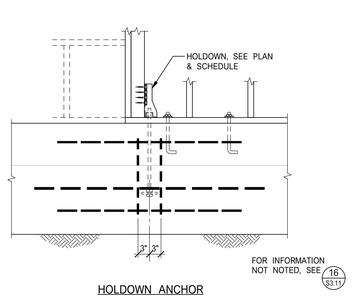
| NOT USED | SCALE: NONE | 14 |
|---|---|---|
| | KPFF K0000 | S3.11 |

| SCHEDULE | SCALE: NONE | 15 |
|---|---|---|
| | KPFF K0000 | S3.11 |



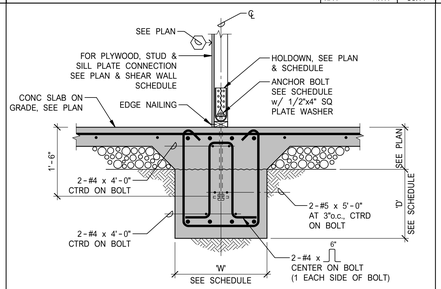

HOLDOWN ANCHOR AT EXTERIOR WALL

| DETAIL | SCALE: 3/4" = 1'-0" | 16 |
|---|---|---|
| | KPFF K0000 | S3.11 |




HOLDOWN ANCHOR

| ELEVATION | SCALE: 3/4" = 1'-0" | 17 |
|---|---|---|
| | KPFF K0000 | S3.11 |




HOLDOWN ANCHOR AT INTERIOR WALL

| DETAIL | SCALE: 3/4" = 1'-0" | 18 |
|---|---|---|
| | KPFF K0000 | S3.11 |

**OWNER:** SRCS VENETIA VALLEY K-8

**PROJECT NAME:** CLASSRROM REPLACEMENT AND NEW MPR BUILDING

**CLIENT ADDRESS:** 177 N San Pedro Rd, San Rafael, CA 94903

**DESIGN DEVELOPMENT SET**

**REVISIONS:**

| | DESCRIPTION | DATE |
|---|---|---|
| 1 | | |
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**DATE ISSUED:** 08-18-2017

**PROJECT NO:** 1700117.00

**SCALE:**

**SHEET NUMBER:** S3.11

**SHEET TITLE:**

# FOUNDATION SCHEDULES AND DETAILS


ARCHITECTS
3 MACARTHUR PLACE, SUITE 850 SANTA ANA, CA 92707
T 949.809.3380 WWW.SVA-ARCHITECTS.COM



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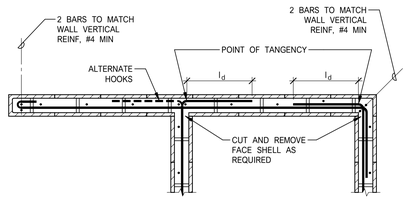
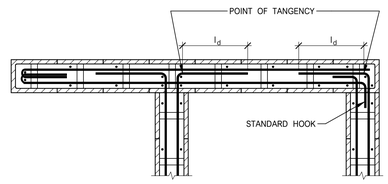



NOTE:
REINFORCEMENT SHOWN ON PLANS AND OTHER SPECIFICALLY REFERENCED DETAILS TAKE PRECEDENCE OVER REINFORCEMENT SHOWN HERE.

## SINGLE LAYER WALL REINF

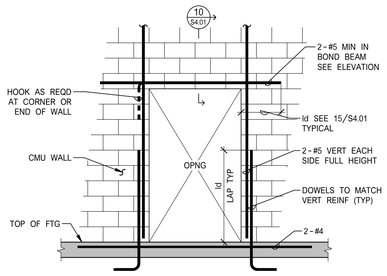
SCALE: NONE | 1 | KPFF K3021 | S4.01




NOTE:
REINFORCEMENT SHOWN ON WALL ELEVATIONS AND OTHER SPECIFICALLY REFERENCED DETAILS TAKE PRECEDENCE OVER REINFORCEMENT SHOWN HERE.

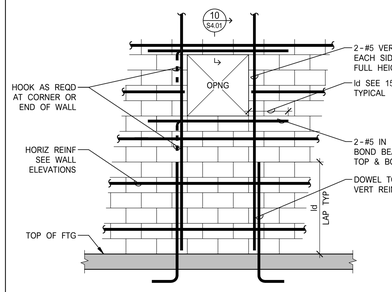
## DOUBLE LAYER WALL REINF

SCALE: NONE | 2 | KPFF K3021A | S4.01



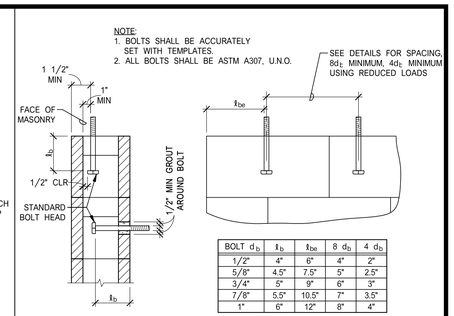

## CMU WALL OPENING(6'-4" MAX)

SCALE: NONE | 3 | KPFF K3030 | S4.01




## CMU WALL OPENING(3'-0" MAX)

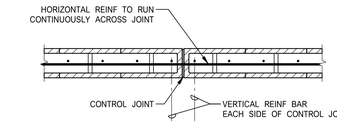
SCALE: NONE | 4 | KPFF K3034 | S4.01




| BOLT $d_b$ | $t_b$ | $t_{be}$ | 8 $d_b$ | 4 $d_b$ |
|---|---|---|---|---|
| 1/2" | 4" | 6" | 4" | 2" |
| 5/8" | 4.5" | 7.5" | 5" | 2.5" |
| 3/4" | 5" | 9" | 6" | 3" |
| 7/8" | 5.5" | 10.5" | 7" | 3.5" |
| 1" | 6" | 12" | 8" | 4" |

## BOLTS IN CMU WALL

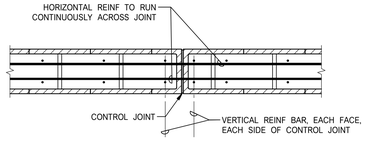
SCALE: NONE | 5 | KPFF K3005 | S4.01




GROUT TO BE SET BACK 1/2" EACH FACE S.A.D. FOR CAULKING REQUIREMENTS

## CMU CONTROL JOINT

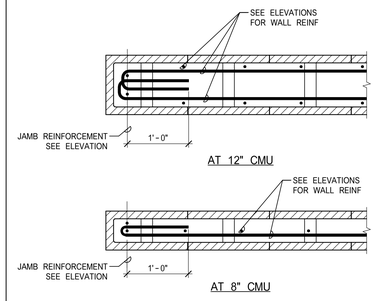
SCALE: 3/4" = 1'-0" | 6 | KPFF K3020 | S4.01




GROUT TO BE SET BACK 1/2" EACH FACE S.A.D. FOR CAULKING REQUIREMENTS

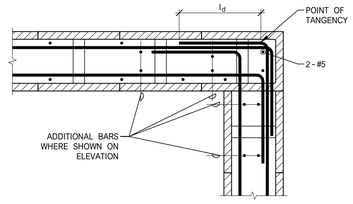
## CMU CONTROL JOINT

SCALE: 3/4" = 1'-0" | 7 | KPFF K3020 | S4.01



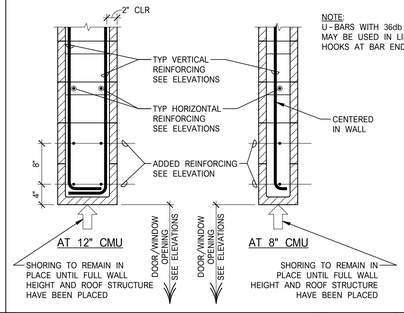

## DETAIL

SCALE: 1" = 1'-0" | 8 | KPFF K0000 | S4.01




## DETAIL

SCALE: 1" = 1'-0" | 9 | KPFF K0000 | S4.01




## SECTION

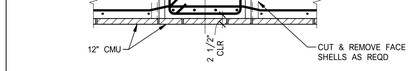
SCALE: 1" = 1'-0" | 10 | KPFF K0000 | S4.01

## CMU POUR JOINT

SCALE: 3/4" = 1'-0" | 11 | KPFF K0000 | S4.01

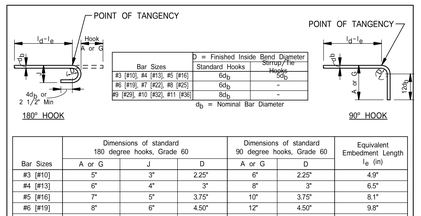
## SECTION

SCALE: 3/4" = 1'-0" | 12 | KPFF K0000 | S4.01




## SECTION

SCALE: 3/4" = 1'-0" | 13 | KPFF K0000 | S4.01

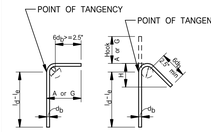



| Bar Sizes | D = Finished Inside Bend Diameter: Standard Hooks | Stirrup-Tie Hooks |
|---|---|---|
| #3 [#10], #4 [#13], #5 [#16] | $6d_b$ | $5d_b$ |
| #6 [#19], #7 [#22], #8 [#25] | $6d_b$ | - |
| #9 [#29], #10 [#32], #11 [#36] | $8d_b$ | - |

$d_b$ = Nominal Bar Diameter

| Bar Sizes | Dimensions of standard 180 degree hooks, Grade 60: A or G | J | D | Dimensions of standard 90 degree hooks, Grade 60: A or G | D | Equivalent Embedment Length $l_e$ (in) |
|---|---|---|---|---|---|---|
| #3 [#10] | 5" | 3" | 2.25" | 6" | 2.25" | 4.9" |
| #4 [#13] | 6" | 4" | 3" | 8" | 3" | 6.5" |
| #5 [#16] | 7" | 5" | 3.75" | 10" | 3.75" | 8.1" |
| #6 [#19] | 8" | 6" | 4.50" | 12" | 4.50" | 9.8" |
| #7 [#22] | 10" | 7" | 5.25" | 14" | 5.25" | 11.4" |
| #8 [#25] | 11" | 8" | 6" | 16" | 6" | 13.0" |
| #9 [#29] | 15" | 11.3" | 9" | 19" | 9" | 14.7" |
| #10 [#32] | 17" | 12.7" | 10.2" | 22" | 10.2" | - - - |
| #11 [#36] | 19" | 14.1" | 11.3" | 24" | 11.3" | - - - |

[#10] INDICATES METRIC BAR SIZE  D = Bend diameter




90° HOOK  135° HOOK

Stirrup Hooks (Tie Bends Similar)

| Bar Size | D | 90°: A or G | 135°: A or G | 135°: Approx H |
|---|---|---|---|---|
| #3 [#10] | 1.875" | 3.8125" | 2.5" | 2.1" |
| #4 [#13] | 2.5" | 4.75" | 3" | 2.6" |
| #5 [#16] | 3.125" | 5.9375" | 3.75" | 3.3" |

| Bar Size | Development ($l_d$) & Lap Splice Length (in) |
|---|---|
| #3 [#10] | 12" |
| #4 [#13] | 20" |
| #5 [#16] | 29" |
| #6 [#19] | 51" |
| #7 [#22] | 63" |
| #8 [#25] | 72" |
| #9 [#29] | 81" |

## CMU REINF SCHEDULE

SCALE: NONE | 14 | KPFF K1010 | S4.01

**OWNER:** SRCS VENETIA VALLEY K-8

**PROJECT NAME:** CLASSRROM REPLACEMENT AND NEW MPR BUILDING

**CLIENT ADDRESS:** 177 N San Pedro Rd, San Rafael, CA 94903

**DESIGN DEVELOPMENT SET**

IDENTIFICATION STAMP
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OFFICE OF REGULATION SERVICES
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AC_____ FLS_____ SS_____
DATE _____

**REVISIONS:**

| | DESCRIPTION | DATE |
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**DATE ISSUED:** 08-18-2017
**PROJECT NO:** 1700117.00
**SCALE:** AS NOTED

**SHEET NUMBER:** S4.01

**SHEET TITLE:**

# TYPICAL DETAILS - MASONRY

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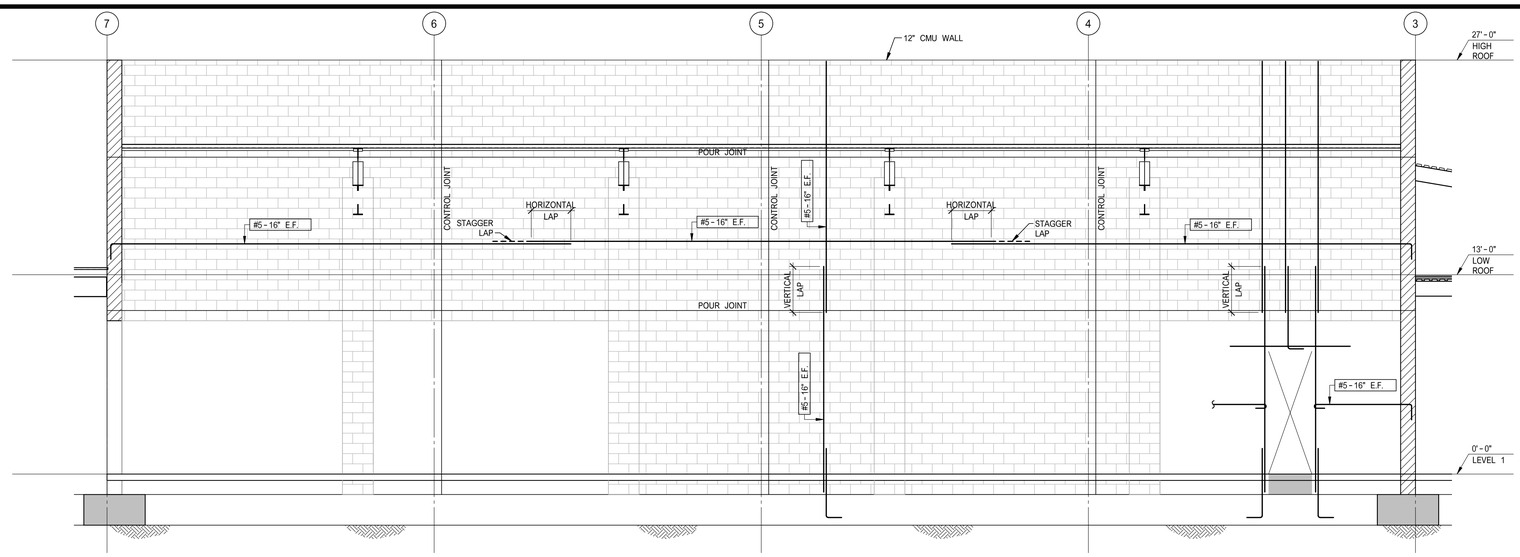
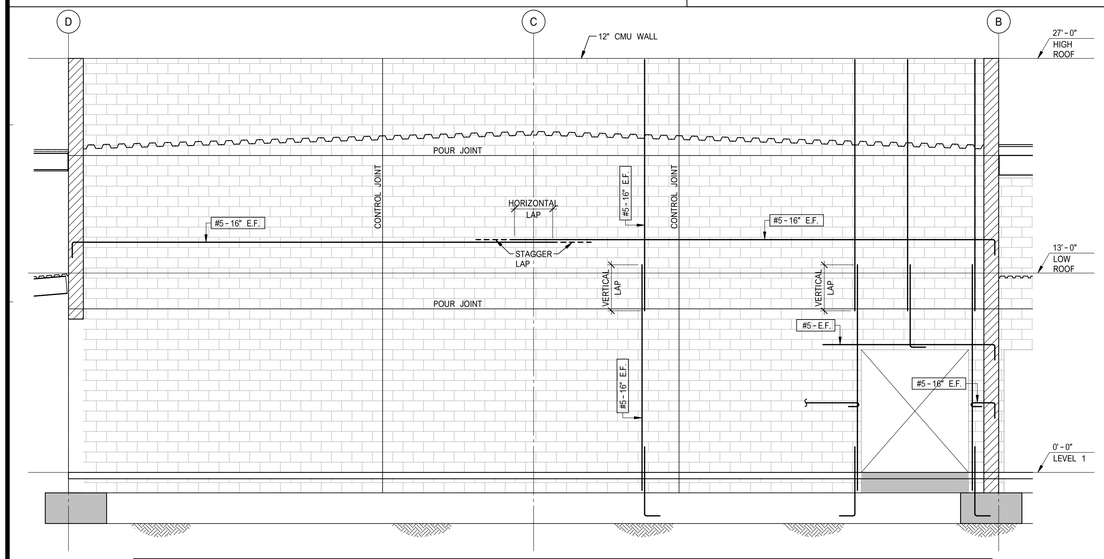



CMU WALL ELEVATION

SCALE: 1/4" = 1'-0" | 1 | KPFF | S4.02




CMU WALL ELEVATION

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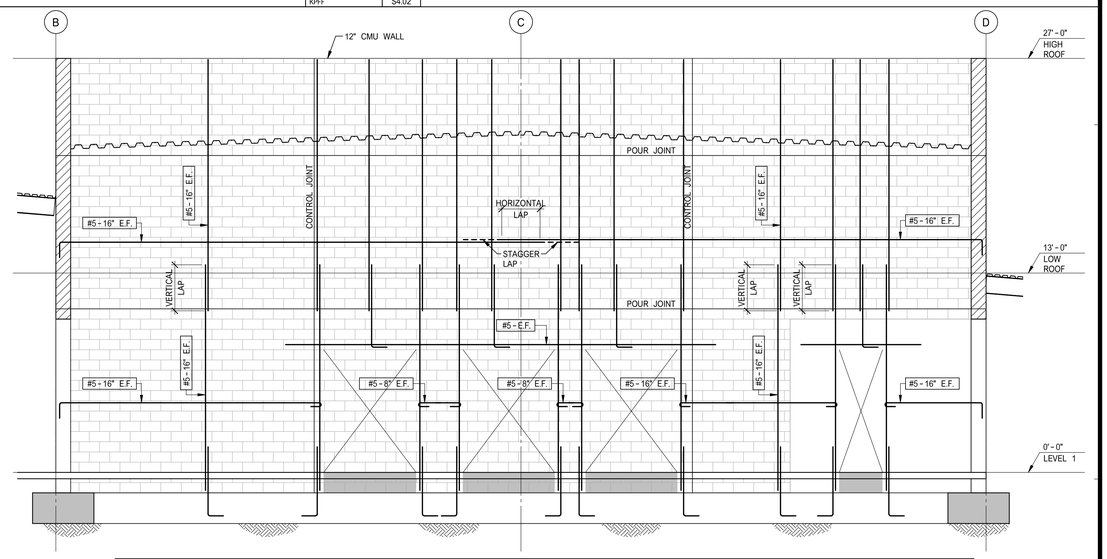
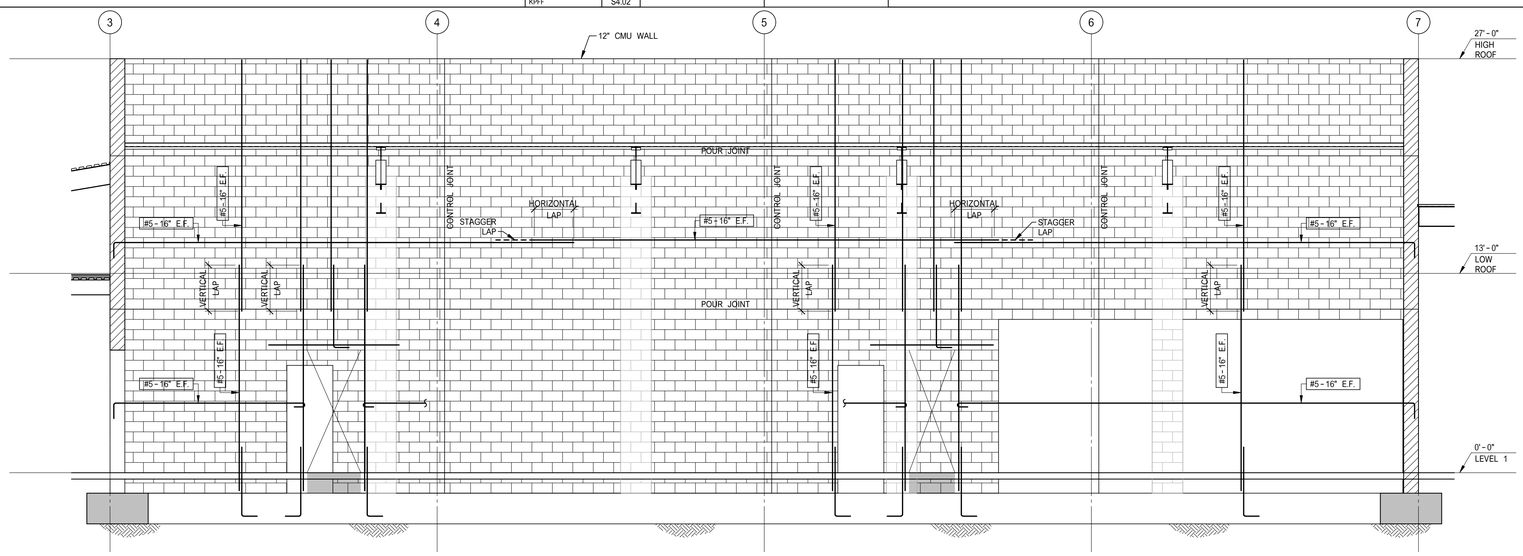



CMU WALL ELEVATION

SCALE: 1/4" = 1'-0" | 3 | KPFF | S4.02




CMU WALL ELEVATION

SCALE: 1/4" = 1'-0" | 4 | KPFF | S4.02

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**OWNER:** SRCS VENETIA VALLEY K-8

**PROJECT NAME:** CLASSRROM REPLACEMENT AND NEW MPR BUILDING

**CLIENT ADDRESS:** 177 N San Pedro Rd, San Rafael, CA 94903

**DESIGN DEVELOPMENT SET**

**REVISIONS:**

| | DESCRIPTION | DATE |
|---|---|---|
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**DATE ISSUED:** 08-18-2017

**PROJECT NO:** 1700117.00

**SCALE:** AS NOTED

**SHEET NUMBER:** S4.02

**SHEET TITLE:**

# CMU WALL ELEVATIONS


SVA ARCHITECTS

3 MACARTHUR PLACE, SUITE 850 SANTA ANA, CA 92707

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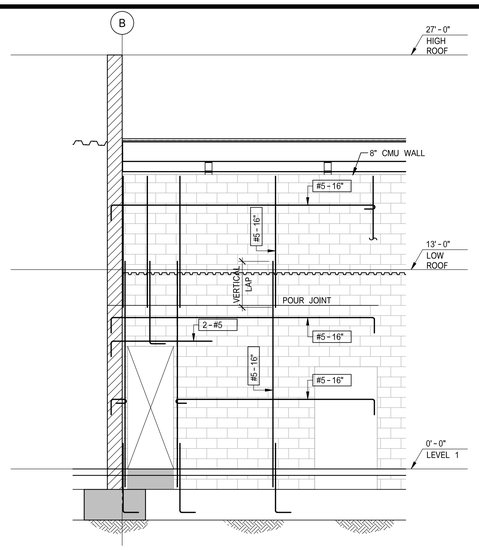
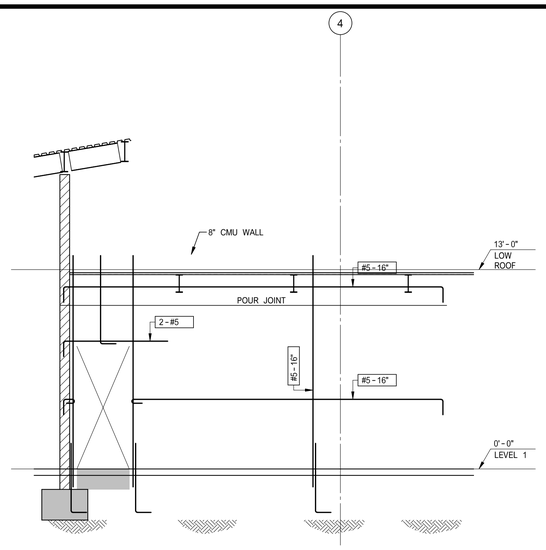



CMU WALL ELEVATION — SCALE: 1/4" = 1'-0" — KPFF — 1 — S4.03

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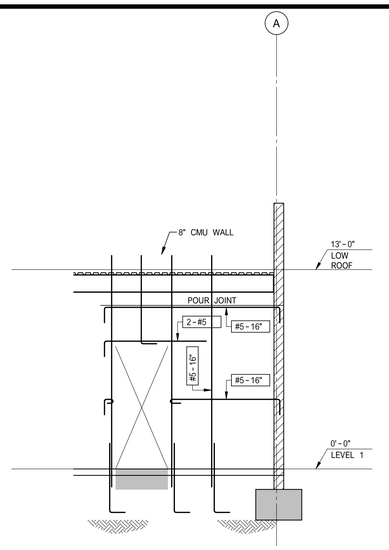


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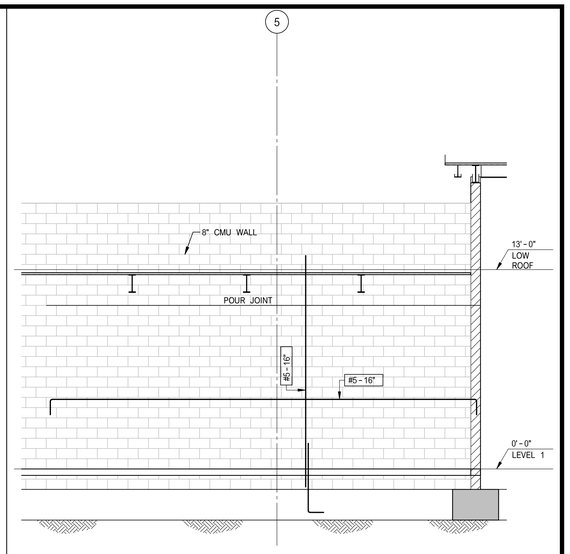


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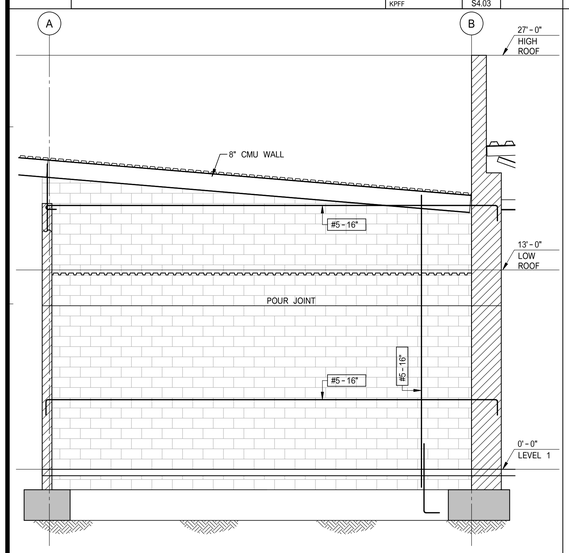


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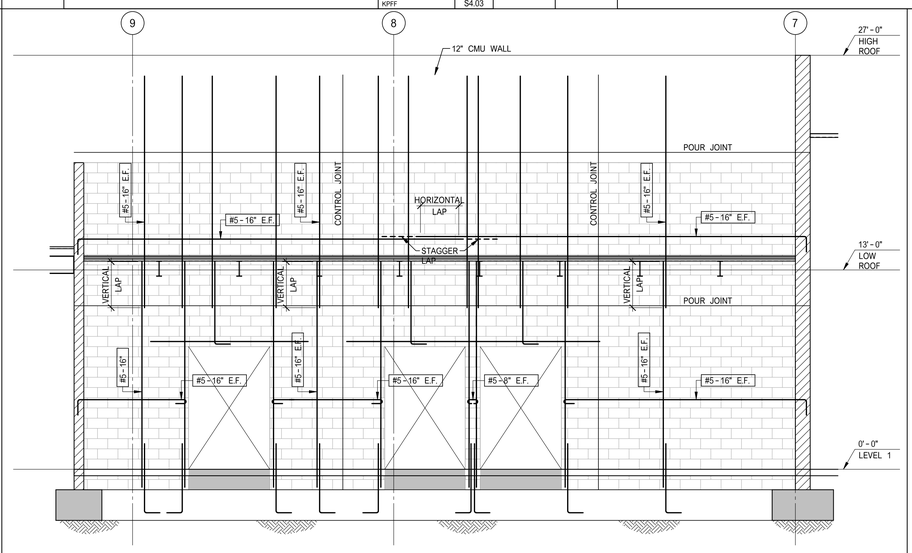


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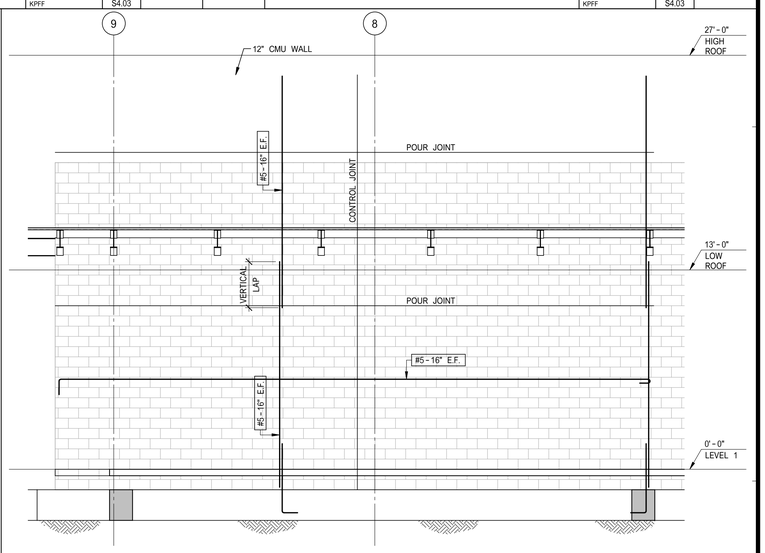
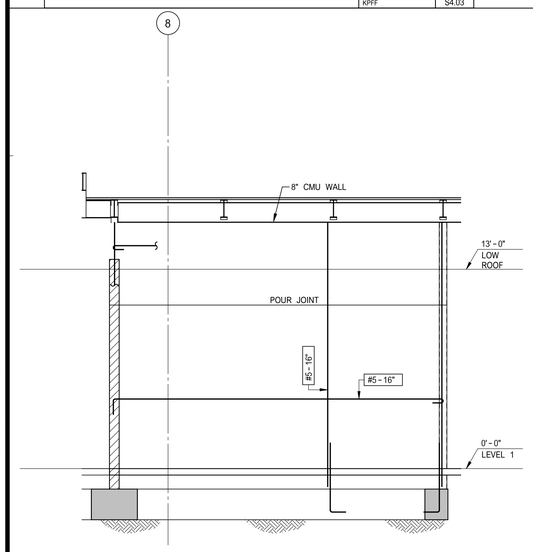



CMU WALL ELEVATION — SCALE: 1/4" = 1'-0" — KPFF — 7 — S4.03

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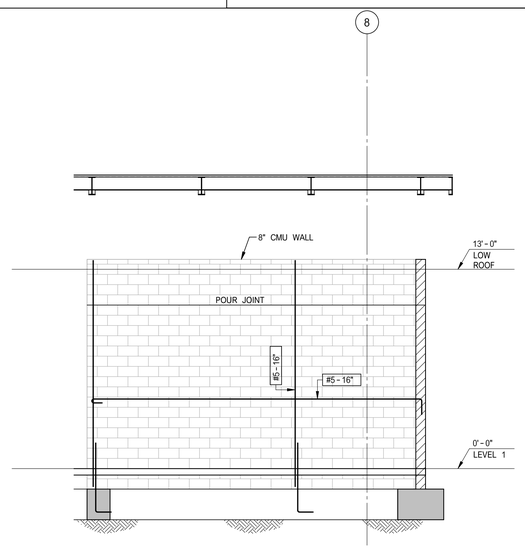


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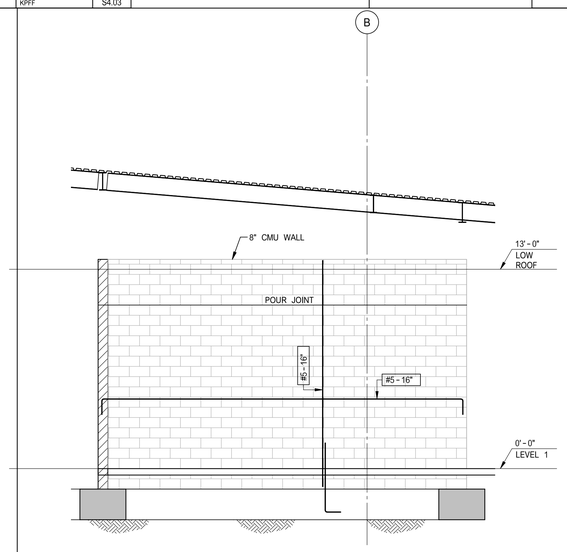


S4.03/10 — SCALE: 1/4" = 1'-0" — KPFF — 10 — S4.03

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**OWNER:** SRCS VENETIA VALLEY K-8

**PROJECT NAME:** CLASSRROM REPLACEMENT AND NEW MPR BUILDING

**CLIENT ADDRESS:** 177 N San Pedro Rd, San Rafael, CA 94903

**DESIGN DEVELOPMENT SET**

**REVISIONS:**

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**DATE ISSUED:** 08-18-2017

**PROJECT NO:** 1700117.00

**SCALE:** AS NOTED

**SHEET NUMBER:** S4.03

**SHEET TITLE:**

# CMU WALL ELEVATIONS

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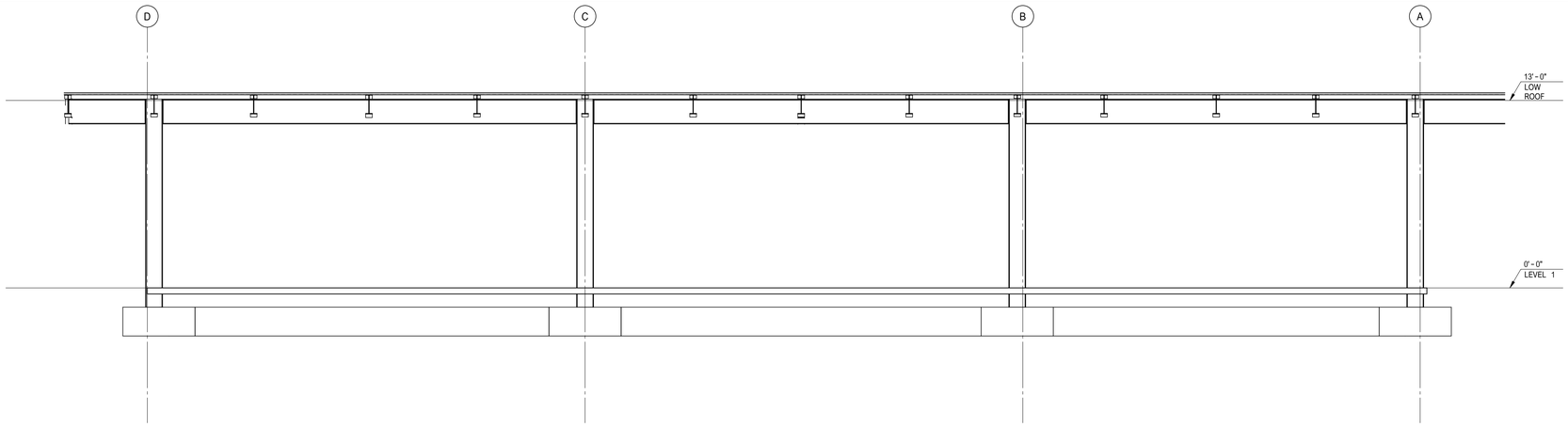


MOMENT FRAME ELEVATION

SCALE: 1/4" = 1'-0"

KPFF

1

S4.04

**OWNER:** SRCS VENETIA VALLEY K-8

**PROJECT NAME:** CLASSRROM REPLACEMENT AND NEW MPR BUILDING

**CLIENT ADDRESS:** 177 N San Pedro Rd, San Rafael, CA 94903

**DESIGN DEVELOPMENT SET**

**REVISIONS:**

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**DATE ISSUED:** 08-18-2017

**PROJECT NO:** 1700117.00

**SCALE:** AS NOTED

**SHEET NUMBER:** S4.04

**SHEET TITLE:**

# MOMENT FRAME ELEVATIONS

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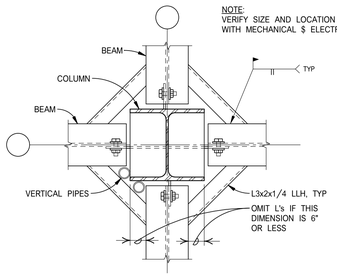



METAL DECK SUPPORT AT INTERIOR WF COLUMN

## PLAN DETAIL

SCALE: NONE | KPFF K5590 | 1 | S5.01

| MARK | DETAIL | USE | FILL | | DECKING (1 & 5) | | | | | | FIRE-PROOFING REQUIRED (6) | MAXIMUM SPAN (2) | | | REMARKS |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | | | CONCRETE (3) | REINFORCING (7) | DECK TYPE (2) | PROPERTIES, MINIMUM | | | ATTACHMENTS PER SHEET (4 & 8) | | | | | | |
| | | | | | | I (IN⁴/FT) | S⁺ (IN³/FT) | S⁻ (IN³/FT) | SUPPORTS | FRAMING PARALLEL | SIDE SEAM | | 3 SPANS | 2 SPANS | 1 SPAN | |
| D-1 | | FLOORS | 2 1/2" H.R.-L.S. | #4 AT 18"o.c. E.W. | 3"-18GA COMPOSITE | 1.213 | 0.752 | 0.768 | 4 - 1/2"ø P.W. | 1/2"ø P.W. AT 12"o.c. | 3/8"x1 1/2" AT 12"o.c. | NO | 14'-2" | 14'-3" | 12'-1" | |
| D-2 | | ROOF | - - | - - | 3 1/2"-18GA | 2.340 | 0.990 | 1.030 | 4 - 1/2"ø P.W. | 1/2"ø P.W. AT 12"o.c. | 3/8"x1 1/2" AT 12"o.c. | NO | | 21'-0" | 21'-0" | EPICORE ER3.5A BY EPIC METALS CORP ICC ESR-2047 |
| D-3 | | ROOF | - - | - - | 1 1/2"-18GA | 0.302 | 0.314 | 0.331 | 4 - 1/2"ø P.W. | 1/2"ø P.W. AT 12"o.c. | 3/8"x1 1/2" AT 12"o.c. | NO | 7'-0" | 9'-6" | 9'-0" | |
| D-4 | | ROOF | 2 1/2" H.R.-L.S. | #4 AT 18"o.c. E.W. | 1 1/2"-18GA | 0.302 | 0.322 | 0.335 | 4 - 1/2"ø P.W. | 1/2"ø P.W. AT 12"o.c. | 3/8"x1 1/2" AT 12"o.c. | NO | 10'-5" | 10'-2" | 8'-5" | |
| D-5 | | ROOF | - - | - - | 1 1/2"-18GA | 0.302 | 0.314 | 0.331 | 4 - #12 S.M.S. | 4-#12 S.M.S. AT 12"o.c. | 3/8"x1 1/2" AT 12"o.c. | NO | 7'-0" | 9'-6" | 9'-0" | |

NOTES:

(1) FOR ADDITIONAL METAL DECK REQUIREMENTS, REFER TO GENERAL NOTES

(2) METAL DECK SHALL BE CONTINUOUS OVER 3 SPANS WHERE POSSIBLE. FOR ADDITIONAL REQUIREMENTS REFER TO GENERAL NOTES

(3) FOR ADDITIONAL CONCRETE FILL REQUIREMENTS, REFER TO GENERAL NOTES
'H.R.' INDICATES HARD ROCK CONCRETE 'L.S.' INDICATES LOW SHRINKAGE
'L.W.' INDICATES LIGHTWEIGHT CONCRETE
ALL METAL DECKING SUPPORTING LIGHTWEIGHT CONCRETE FILL SHALL BE VENTED.

(4) FOR ATTACHMENTS: 'P.W.' INDICATES PUDDLE WELD, 'B.P.' INDICATES BUTTON PUNCH
'S.S.W.' INDICATES SIDE SEAM WELD 'T.S.W.' INDICATES TOP SEAM WELD
'P.L.' INDICATES VERCO PUNCHLOK
NOTE: SHEAR CONNECTOR STUDS MAY REPLACE PUDDLE WELDS

(5) DECK SHALL BEAR 2" MINIMUM ON ALL SUPPORT SURFACES, U.N.O.

(6) FOR SPECIFIC FIREPROOFING REQUIREMENTS, SEE ARCHITECTURAL DRAWINGS.

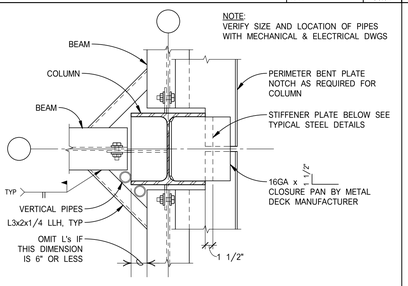
(7) REINFORCEMENT LAP SPLICES:
'L.W.' CONCRETE: LAP BARS 60db IF LAPS ARE STAGGERED 4'-0" MIN, LAP BARS 75db OTHERWISE
'H.R.' CONCRETE: LAP BARS 50db IF LAPS ARE STAGGERED 4'-0" MIN, LAP BARS 60db OTHERWISE

(8) ALL SCREWS SHALL BE SHALL BE TEKS OR I.C.H. TRAXX (ICC ES ER-3056) OR APPROVED EQUAL WITH CURRENT ICC APPROVAL REPORT

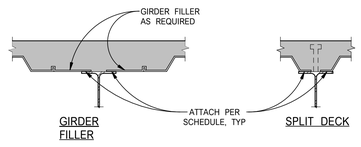
(9) FOR EDGE OF DECK SUPPORT & STUD LAYOUT AT LATERAL RESISTING FRAMES.

## METAL DECK SCHEDULE

SCALE: 1" = 1'-0" | KPFF K5502 | 2 | S5.01

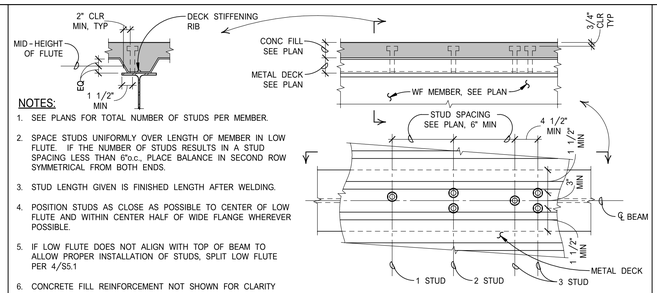



METAL DECK SUPPORT AT PERIMETER WF COLUMN



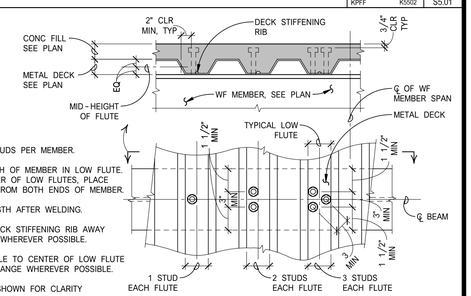

NOTES:
1. DECK RIB LOW FLUTE TO BE CENTERED ON GIRDER WHEREVER POSSIBLE OTHERWISE DECK MUST BE SPLIT FULL LENGTH OF GIRDER OR DECK TO BE SPLIT AND GIRDER FILLER TO BE PROVIDED. SPLIT DECK SHALL PROVIDE A MINIMUM WIDTH EQUAL TO A LOW FLUTE WIDTH AND ALSO SHALL ACHIEVE MINIMUM STUD CLEARANCES
2. CONCRETE FILL REINFORCEMENT NOT SHOWN FOR CLARITY

TYPICAL METAL DECK PARALLEL TO COMPOSITE GIRDERS




NOTES:
1. SEE PLANS FOR TOTAL NUMBER OF STUDS PER MEMBER.
2. SPACE STUDS UNIFORMLY OVER LENGTH OF MEMBER IN LOW FLUTE. IF THE NUMBER OF STUDS RESULTS IN A STUD SPACING LESS THAN 6"o.c., PLACE BALANCE IN SECOND ROW SYMMETRICAL FROM BOTH ENDS.
3. STUD LENGTH GIVEN IS FINISHED LENGTH AFTER WELDING.
4. POSITION STUDS AS CLOSE AS POSSIBLE TO CENTER OF LOW FLUTE AND WITHIN CENTER HALF OF WIDE FLANGE WHEREVER POSSIBLE.
5. IF LOW FLUTE DOES NOT ALIGN WITH TOP OF BEAM TO ALLOW PROPER INSTALLATION OF STUDS, SPLIT LOW FLUTE PER 4/S5.1
6. CONCRETE FILL REINFORCEMENT NOT SHOWN FOR CLARITY

TYPICAL STUD DETAIL FOR METAL DECK PARALLEL TO COMPOSITE BEAM/GIRDER




NOTES:
1.
2. SEE PLANS FOR TOTAL NUMBER OF STUDS PER MEMBER.
SPACE STUDS UNIFORMLY OVER LENGTH OF MEMBER IN LOW FLUTE. IF NUMBER OF STUDS EXCEEDS NUMBER OF LOW FLUTES, PLACE BALANCE IN 2ND ROW, SYMMETRICAL FROM BOTH ENDS OF MEMBER.
3. STUD LENGTH GIVEN IS FINISHED LENGTH AFTER WELDING.
4. LOCATE STUDS ON OUTER SIDE OF DECK STIFFENING RIB AWAY FROM CENTER LINE OF MEMBER SPAN WHEREVER POSSIBLE.
5. POSITION STUDS AS CLOSE AS POSSIBLE TO CENTER OF LOW FLUTE AND WITHIN CENTER HALF OF WIDE FLANGE WHEREVER POSSIBLE.
6. CONCRETE FILL REINFORCEMENT NOT SHOWN FOR CLARITY

TYPICAL STUD DETAIL FOR METAL DECK PERPENDICULAR TO COMPOSITE BEAM/GIRDER

## PLAN DETAIL

SCALE: NONE | KPFF K5592 | 3 | S5.01




METAL DECK SUPPORT AT CORNER WF COLUMN

## DETAIL

SCALE: NONE | KPFF K0000 | 4 | S5.01




TYPICAL DECK DIRECTION TRANSITION

## DETAIL

SCALE: NONE | KPFF K5521 | 5 | S5.01




## ADDED STUDS AT ANGLE STRUT

SCALE: 1" = 1'-0" | KPFF K0000 | 9 | S5.01




TYPICAL CONSTRUCTION JOINT

## DETAIL

SCALE: 1" = 1'-0" | KPFF K0000 | 10 | S5.01




TYPICAL REBAR PLACEMENT

## DETAIL

SCALE: 1" = 1'-0" | KPFF K0000 | 11 | S5.01




TYPICAL CURB

## SECTION

SCALE: NONE | KPFF K5551 | 12 | S5.01




TYPICAL REINFORCING AT FILL ON DECK OPENING (9" MAX)

## DETAIL

SCALE: NONE | KPFF K5520 | 13 | S5.01




TYPICAL REINFORCING AT FILL ON DECK OPENING (2'-0" MAX)

## DETAIL

SCALE: NONE | KPFF K5521 | 14 | S5.01




PARTIAL FRAMING PLAN

PARTIAL FRAMING PLAN

## DETAIL

SCALE: NONE | KPFF K5522 | 15 | S5.01




NOTE: SEE ARCHITECTURAL, MECHANICAL, AND ELECTRICAL DRAWINGS FOR LOCATION AND SIZE OF HOUSKEEPING PADS

TYPICAL HOUSEKEEPING PAD

## SECTION

SCALE: 1" = 1'-0" | KPFF K5550 | 16A/16B | S5.01

| OVERHANG 'e' 1'-6" MAX | |
|---|---|
| 'e' ≤ 8" | 14GA |
| 8" < 'e' ≤ 9" | 12GA |
| 9" < 'e' ≤ 11" | 10GA |
| 11" < 'e' ≤ 1'-2" | 1/4" |
| 1'-2" < 'e' ≤ 1'-6" | 5/16" |




DECK CLOSURE AT OPENING

## SECTION

SCALE: 1" = 1'-0" | KPFF K5530 | 17 | S5.01

| OVERHANG 'e' 1'-6" MAX | |
|---|---|
| 'e' ≤ 8" | 14GA |
| 8" < 'e' ≤ 9" | 12GA |
| 9" < 'e' ≤ 11" | 10GA |
| 11" < 'e' ≤ 1'-2" | 1/4" |
| 1'-2" < 'e' ≤ 1'-6" | 5/16" |




DECK CLOSURE AT OPENING

## SECTION

SCALE: 1" = 1'-0" | KPFF K5531 | 18 | S5.01

| OVERHANG 'e' 1'-10" MAX | BENT PL 't' |
|---|---|
| 'e' ≤ 1'-6" | 1/4" |
| 1'-6" < 'e' ≤ 1'-10" | 5/16" |
| SEE PLAN & DETAILS FOR LARGER OVERHANG | |




DECK CLOSURE AT BUILDING PERIMETER

## SECTION

SCALE: 1" = 1'-0" | KPFF K5540 | 19 | S5.01

| OVERHANG 'e' 1'-10" MAX | BENT PL 't' |
|---|---|
| 'e' ≤ 1'-6" | 1/4" |
| 1'-6" < 'e' ≤ 1'-10" | 5/16" |
| SEE PLAN & DETAILS FOR LARGER OVERHANG | |




DECK CLOSURE AT BUILDING PERIMETER

## SECTION

SCALE: 1" = 1'-0" | KPFF K5541 | 20 | S5.01

**OWNER:** SRCS VENETIA VALLEY K-8

**PROJECT NAME:** CLASSRROM REPLACEMENT AND NEW MPR BUILDING

**CLIENT ADDRESS:** 177 N San Pedro Rd, San Rafael, CA 94903

**DESIGN DEVELOPMENT SET**

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| | DESCRIPTION | DATE |
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**DATE ISSUED:** 08-18-2017
**PROJECT NO:** 1700117.00
**SCALE:** AS NOTED

**SHEET NUMBER:** S5.01

**SHEET TITLE:**

# TYPICAL METAL DECK DETAILS

kpff
45 Fremont Street, 28th floor
San Francisco, CA 94105
415.989.1004 | kpff.com
**SEOR Contact:**
blake.dilsworth@kpff.com
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david.rossi@kpff.com

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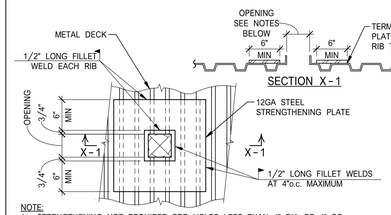
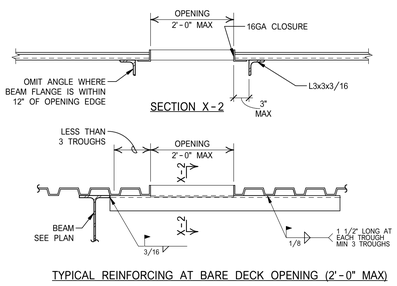
SCALE: NONE | 1 | KPFF | S5.02




TYPICAL REINFORCING AT BARE DECK OPENING (9" MAX)

DETAIL

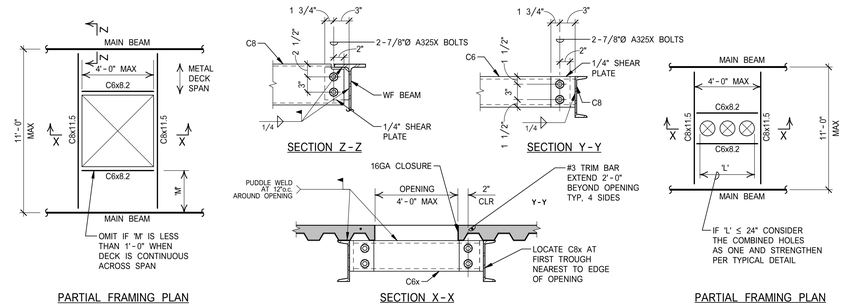
SCALE: NONE | 2 | KPFF | K0000 | S5.02




TYPICAL REINFORCING AT BARE DECK OPENING (2'-0" MAX)

DETAIL

SCALE: NONE | 3 | KPFF | K0000 | S5.02



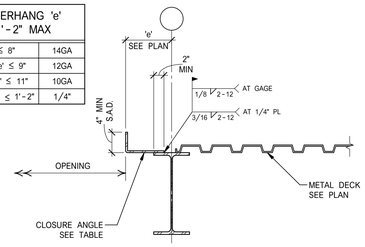

PARTIAL FRAMING PLAN

PARTIAL FRAMING PLAN

DETAIL

SCALE: NONE | 4 | KPFF | S5.02

| OVERHANG 'e' 1'-2" MAX | |
|---|---|
| 'e' ≤ 8" | 14GA |
| 8" < 'e' ≤ 9" | 12GA |
| 9" < 'e' ≤ 11" | 10GA |
| 11" < 'e' ≤ 1'-2" | 1/4" |

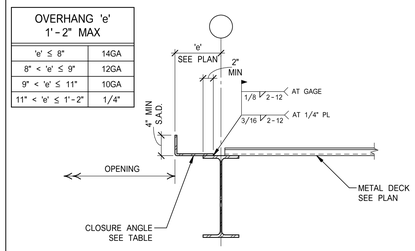



DECK CLOSURE AT OPENING

SECTION

SCALE: NONE | 5 | KPFF | K5532 | S5.02

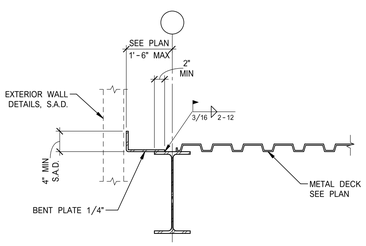
| OVERHANG 'e' 1'-2" MAX | |
|---|---|
| 'e' ≤ 8" | 14GA |
| 8" < 'e' ≤ 9" | 12GA |
| 9" < 'e' ≤ 11" | 10GA |
| 11" < 'e' ≤ 1'-2" | 1/4" |




DECK CLOSURE AT OPENING

SECTION

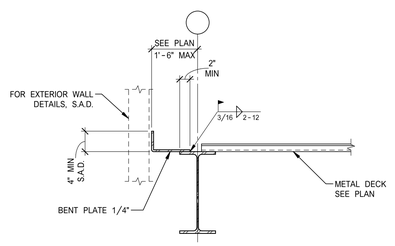
SCALE: NONE | 6 | KPFF | K5533 | S5.02




DECK CLOSURE AT BUILDING PERIMETER

SECTION

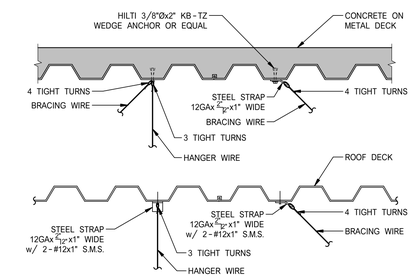
SCALE: NONE | 7 | KPFF | K5542 | S5.02




DECK CLOSURE AT BUILDING PERIMETER

SECTION

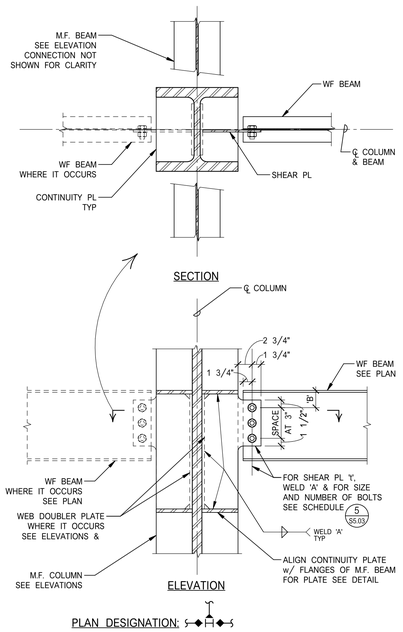
SCALE: NONE | 8 | KPFF | K5543 | S5.02




WIRE ATTACHMENT TO STEEL DECK

DETAIL

SCALE: NONE | 9 | KPFF | K0000 | S5.02




BEAM TO M.F. COLUMN WEB

SCALE: 1" = 1'-0" | 10 | KPFF | K0000 | S5.02

**OWNER:** SRCS VENETIA VALLEY K-8

**PROJECT NAME:** CLASSRROM REPLACEMENT AND NEW MPR BUILDING

**CLIENT ADDRESS:** 177 N San Pedro Rd, San Rafael, CA 94903

**DESIGN DEVELOPMENT SET**

IDENTIFICATION STAMP
DIVISION OF THE STATE ARCHITECT
OFFICE OF REGULATION SERVICES

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DATE _____

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| 13 | | |

**DATE ISSUED:** 08-18-2017

**PROJECT NO:** 1700117.00

**SCALE:** AS NOTED

**SHEET NUMBER:** S5.02

**SHEET TITLE:**

# TYPICAL METAL DECK AND STEEL FRAMING DETAILS

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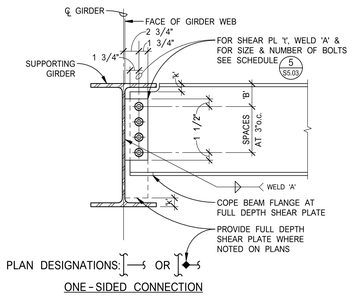
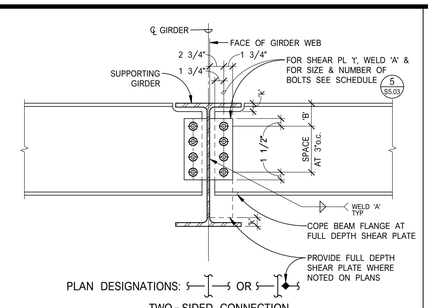



ONE-SIDED CONNECTION

## BEAM TO GIRDER

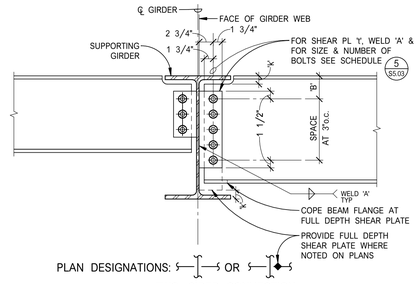
SCALE: 1" = 1'-0" | KPFF | K0000 | S5.03 | **1**




TWO-SIDED CONNECTION

## BEAM TO GIRDER

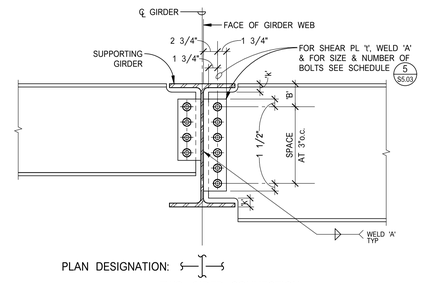
SCALE: 1" = 1'-0" | KPFF | K0000 | S5.03 | **2**




TWO-SIDED CONNECTION

## BEAM TO GIRDER

SCALE: 1" = 1'-0" | KPFF | K0000 | S5.03 | **3**




TWO-SIDED CONNECTION

## BEAM TO GIRDER

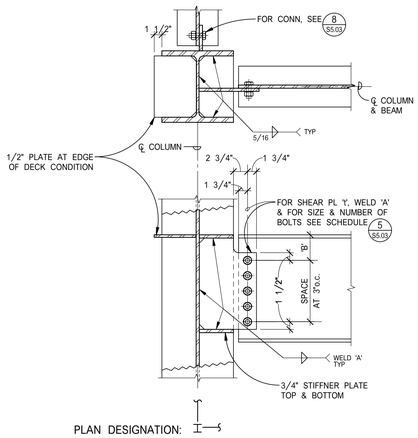
SCALE: 1" = 1'-0" | KPFF | K0000 | S5.03 | **4**

| MEMBER SIZE | TYPICAL CONNECTION | | | | EXTENDED CONN. "═" | | | |
|---|---|---|---|---|---|---|---|---|
| | SHEAR[1] PL 't' | NUMBER OF[2] A325X BOLTS | WELD[3] 'A' | 'B' | SHEAR[1] PL 't' | NUMBER OF[2] A325X BOLTS | WELD[3] 'A' | 'B' |
| W10 | 3/8" | 2-7/8Ø | 1/4" | 3 1/2" | 3/8" | 4-7/8"Ø | 5/16" | 3 1/2" |
| W12 | 3/8" | 2-7/8Ø | 1/4" | 3 1/2" | 1/2" | 4-7/8"Ø | 3/8" | 3 1/2" |
| W14 | 3/8" | 3-7/8Ø | 1/4" | 3 1/2" | 1/2" | 6-7/8"Ø | 3/8" | 3 1/2" |
| W16 | 3/8" | 4-7/8Ø | 1/4" | 3 1/2" | 1/2" | 8-7/8"Ø | 3/8" | 3 1/2" |
| W18 | 3/8" | 4-7/8"Ø | 1/4" | 4" | 1/2" | 8-7/8"Ø | 3/8" | 4" |
| W21 | 1/2" | 5-7/8"Ø | 5/16" | 4" | 5/8" | 10-7/8"Ø | 7/16" | 4" |
| W24 | 1/2" | 6-7/8"Ø | 3/8" | 4" | 5/8" | 12-1"Ø | 7/16" | 4" |
| W27 | 1/2" | 7-7/8Ø | 3/8" | 4" | | | | |
| W30 | 1/2" | 8-7/8"Ø | 3/8" | 4" | | | | |
| W33 | 1/2" | 9-7/8"Ø | 7/16" | 4" | | | | |
| W36 | 1/2" | 10-7/8"Ø | 7/16" | 4" | | | | |

NOTES:
1. SHEAR PLATES MAY BE GRADE A36 OR GRADE 50. AT ALL CONNECTIONS THAT ARE PART OF THE SFRS AND ALL EXTENDED PLATE CONNECTIONS, SHEAR PLATES SHALL BE GRADE 50.
2. FOR BOLTING REQUIRMENTS OF THE SFRS CONNECTIONS, SEE GENERAL NOTES.
3. FOR WELDED REQUIRMENTS OF THE SFRS CONNECTIONS, SEE GENERAL NOTES.

## CONNECTION SCHEDULE

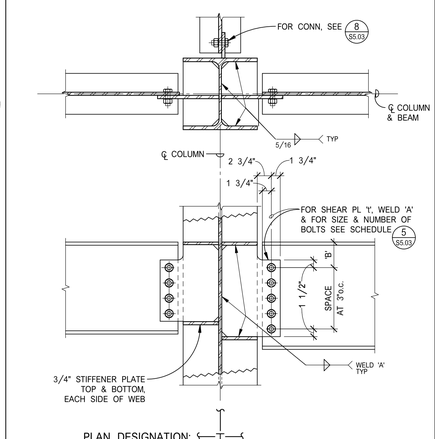
SCALE: NONE | KPFF | K0000 | S5.03 | **5**




TYPICAL CONNECTION

## BEAM TO COLUMN WEB

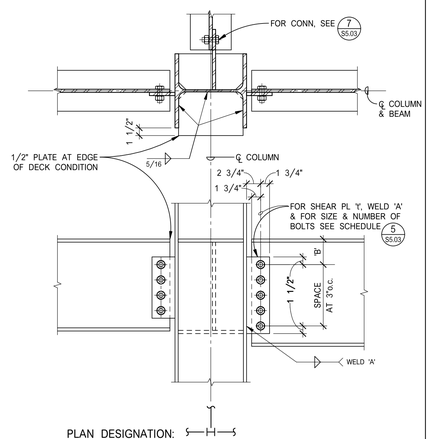
SCALE: 1" = 1'-0" | KPFF | K0000 | S5.03 | **6**




TYPICAL CONNECTION

## BEAM TO COLUMN WEB

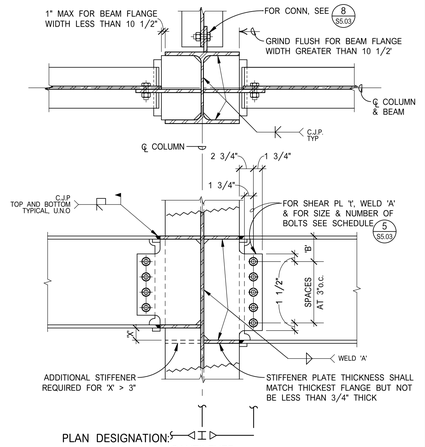
SCALE: 1" = 1'-0" | KPFF | K0000 | S5.03 | **7**




TYPICAL CONNECTION

## BEAM TO COLUMN FLANGE

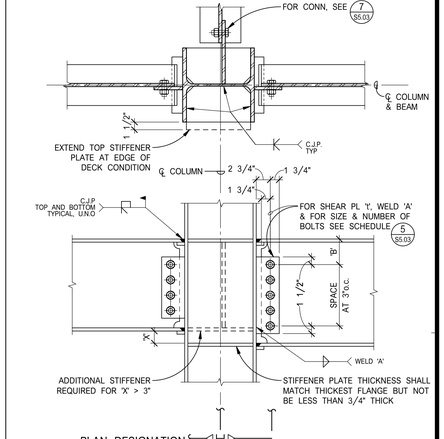
SCALE: 1" = 1'-0" | KPFF | K0000 | S5.03 | **8**




CANTILEVER

## BEAM TO COLUMN WEB

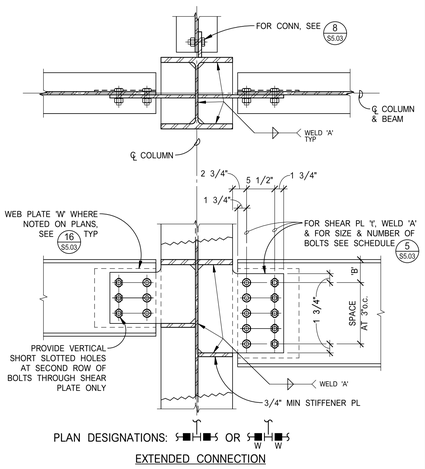
SCALE: 1" = 1'-0" | KPFF | K0000 | S5.03 | **9**




CANTILEVER

## BEAM TO COLUMN FLANGE

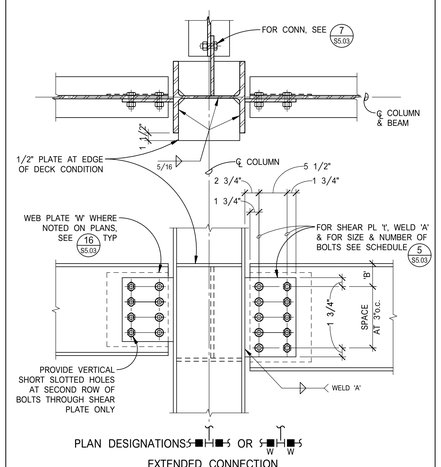
SCALE: 1" = 1'-0" | KPFF | K0000 | S5.03 | **10**




EXTENDED CONNECTION

## BEAM TO COLUMN WEB

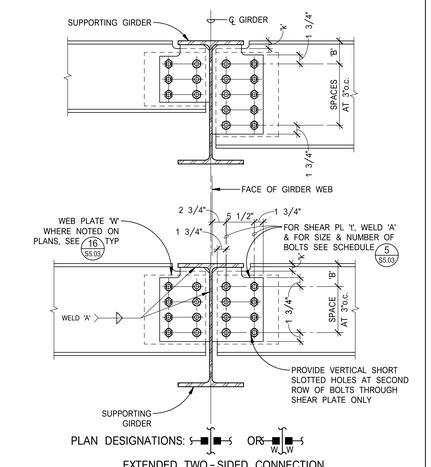
SCALE: 1" = 1'-0" | KPFF | K0000 | S5.03 | **11**




EXTENDED CONNECTION

## BEAM TO COLUMN FLANGE

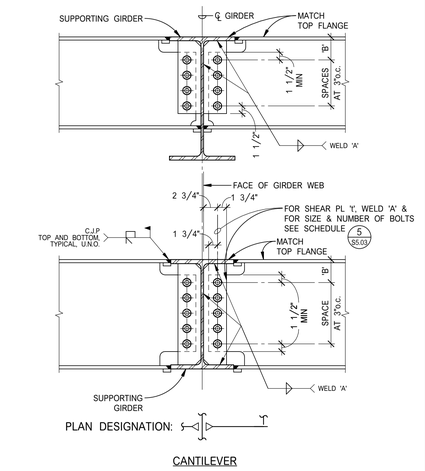
SCALE: 1" = 1'-0" | KPFF | K0000 | S5.03 | **12**




EXTENDED TWO-SIDED CONNECTION

## BEAM TO GIRDER

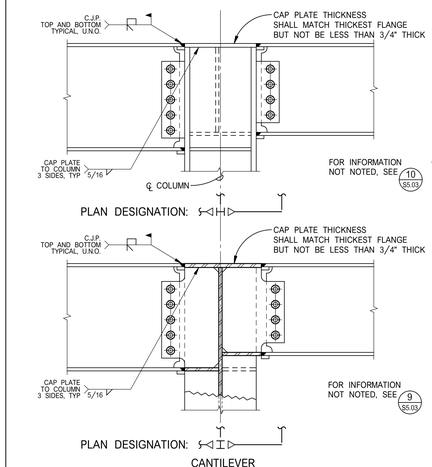
SCALE: 1" = 1'-0" | KPFF | K0000 | S5.03 | **13**




CANTILEVER

## BEAM TO GIRDER

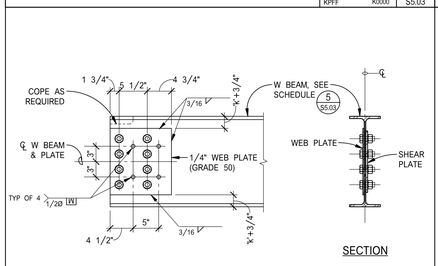
SCALE: 1" = 1'-0" | KPFF | K0000 | S5.03 | **14**




CANTILEVER

## BEAM TO TOP OF COLUMN

SCALE: 1" = 1'-0" | KPFF | K0000 | S5.03 | **15**

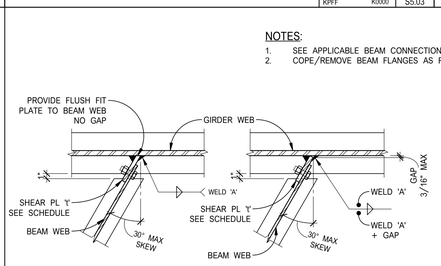



WEB PLATE CONNECTION

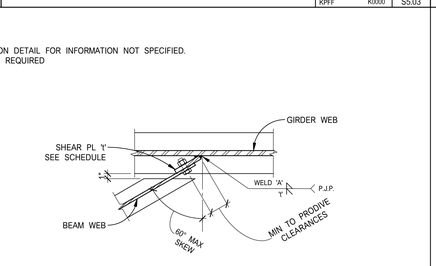
## DETAIL

SCALE: NONE | KPFF | K0000 | S5.03 | **16**

NOTES:
1. SEE APPLICABLE BEAM CONNECTION DETAIL FOR INFORMATION NOT SPECIFIED.
2. COPE/REMOVE BEAM FLANGES AS REQUIRED




FOR SKEWS UP TO 30 DEGREES

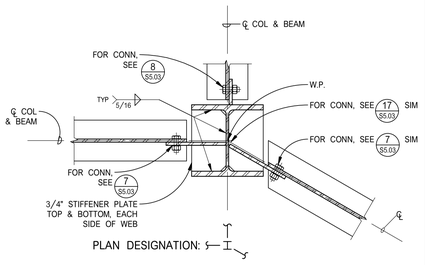



FOR SKEWS UP TO 60 DEGREES

SHEAR CONNECTION PLATES AT SKEWED MEMBERS

## DETAIL

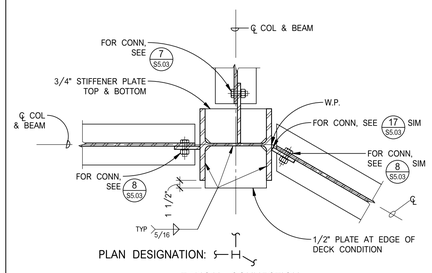
SCALE: 1" = 1'-0" | KPFF | K0000 | S5.03 | **17**




TYPICAL CONNECTION

## BEAM TO COLUMN WEB

SCALE: 1" = 1'-0" | KPFF | K0000 | S5.03 | **18**




TYPICAL CONNECTION

## BEAM TO COLUMN FLANGE

SCALE: 1" = 1'-0" | KPFF | K0000 | S5.03 | **19**

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**OWNER:** SRCS VENETIA VALLEY K-8

**PROJECT NAME:** CLASSRROM REPLACEMENT AND NEW MPR BUILDING

**CLIENT ADDRESS:** 177 N San Pedro Rd, San Rafael, CA 94903

**DESIGN DEVELOPMENT SET**

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**DATE ISSUED:** 08-18-2017
**PROJECT NO:** 1700117.00
**SCALE:** AS NOTED

**SHEET NUMBER:** S5.03

**SHEET TITLE:**

# TYPICAL STEEL FRAMING DETAILS

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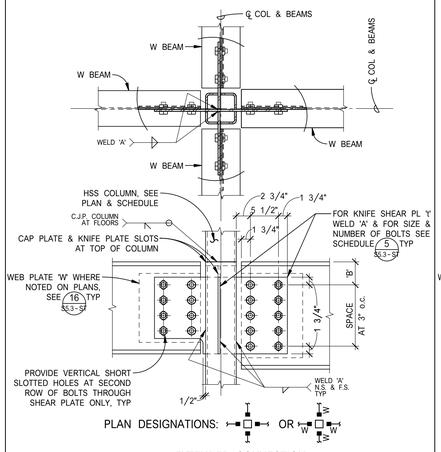
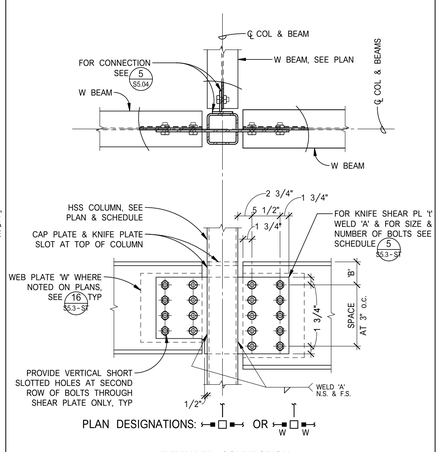


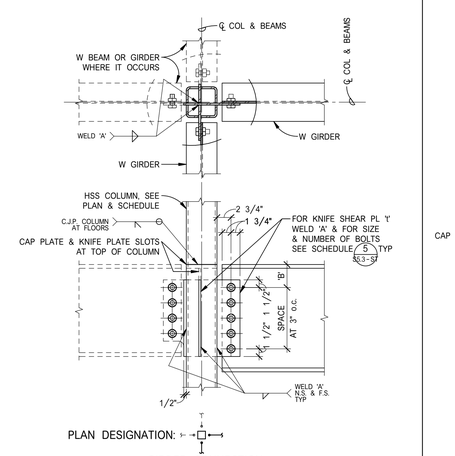

EXTENDED CONNECTION

| W BEAM TO HSS COL | SCALE: NONE | 1 |
|---|---|---|
| KPFF K0000 | S5.04 | |



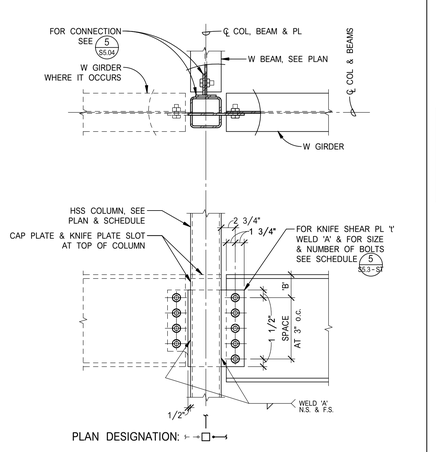

EXTENDED CONNECTION

| W BEAM TO HSS COL | SCALE: NONE | 2 |
|---|---|---|
| KPFF K0000 | S5.04 | |



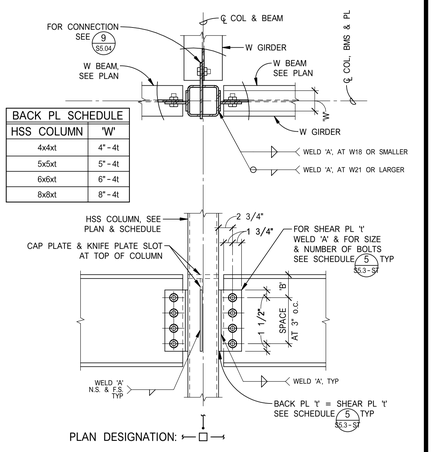

GIRDER CONNECTION

| W GIRDERS TO HSS COL | SCALE: 1" = 1'-0" | 3 |
|---|---|---|
| KPFF K0000 | S5.04 | |




TYPICAL GIRDER CONNECTION

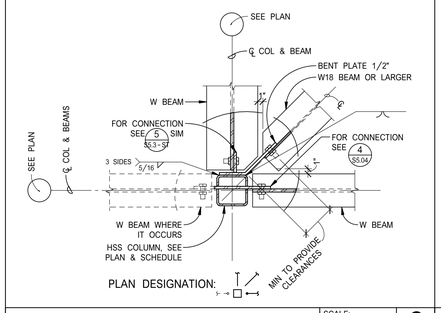
| W GIRDER TO HSS COL | SCALE: 1" = 1'-0" | 4 |
|---|---|---|
| KPFF K0000 | S5.04 | |



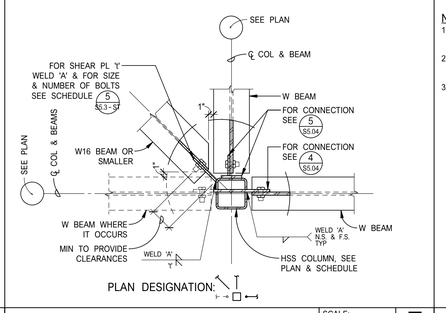

| BACK PL SCHEDULE | |
|---|---|
| HSS COLUMN | 'W' |
| 4x4x4t | 4" - 4t |
| 5x5xt | 5" - 4t |
| 6x6xt | 6" - 4t |
| 8x8xt | 8" - 4t |

TYPICAL BEAM CONNECTION

| W BEAM TO HSS COL | SCALE: 1" = 1'-0" | 5 |
|---|---|---|
| KPFF K0000 | S5.04 | |

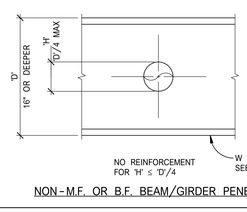



| W BEAM TO HSS COL | SCALE: 1" = 1'-0" | 6 |
|---|---|---|
| KPFF K0000 | S5.04 | |



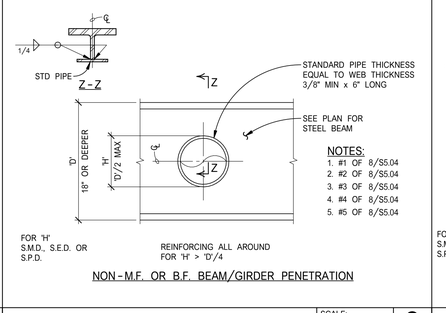

| W BEAM TO HSS COL | SCALE: 1" = 1'-0" | 7 |
|---|---|---|
| KPFF K0000 | S5.04 | |

NOTES:
1. PENETRATION MUST OCCUR A MINIMUM OF 'D' CLEAR FROM NEAREST SUPPORT
2. SPACING BETWEEN OPENINGS SHALL BE 'H' CLEAR MINIMUM
3. LIMIT 3 PENETRATIONS PER BEAM/GIRDER
4. PENETRATION MAY OCCUR IN MIDDLE 1/3 OF BEAM/GIRDER
5. GENERAL CONTRACTOR TO SUBMIT ALL BEAM/GIRDER PENETRATIONS FOR REVIEW



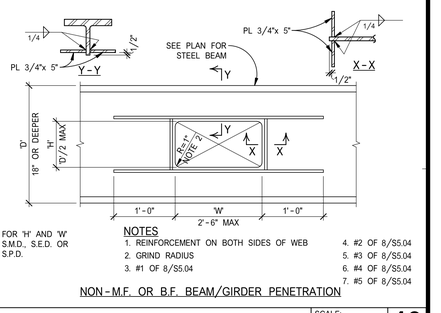

NON-M.F. OR B.F. BEAM/GIRDER PENETRATION

| DETAIL | SCALE: 1" = 1'-0" | 8 |
|---|---|---|
| KPFF K0000 | S5.04 | |



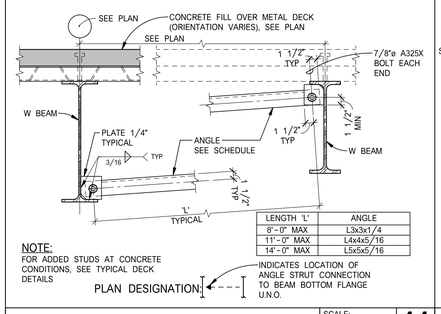

NON-M.F. OR B.F. BEAM/GIRDER PENETRATION

| DETAIL | SCALE: NONE | 9 |
|---|---|---|
| KPFF K5082 | S5.04 | |



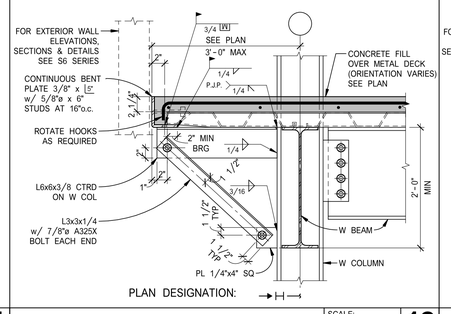

NON-M.F. OR B.F. BEAM/GIRDER PENETRATION

| DETAIL | SCALE: NONE | 10 |
|---|---|---|
| KPFF K5081 | S5.04 | |




ANGLE STRUT

| | SCALE: 1" = 1'-0" | 11 |
|---|---|---|
| KPFF K0000 | S5.04 | |




ANGLE STRUT DECK SUPPORT

| | SCALE: 1" = 1'-0" | 12 |
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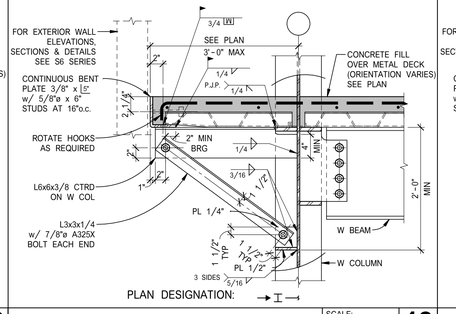
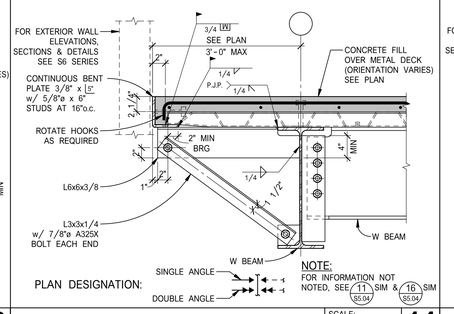
| KPFF K0000 | S5.04 | |



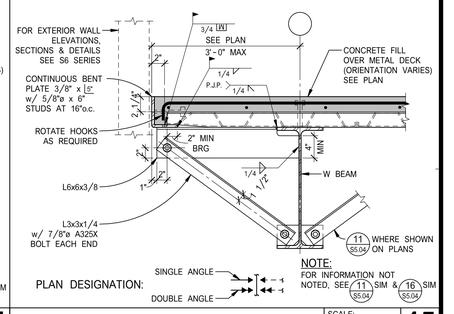

ANGLE STRUT DECK SUPPORT

| | SCALE: 1" = 1'-0" | 13 |
|---|---|---|
| KPFF K0000 | S5.04 | |



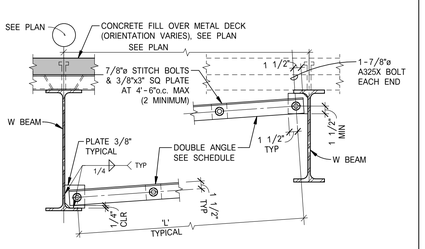

ANGLE STRUT DECK SUPPORT

| | SCALE: 1" = 1'-0" | 14 |
|---|---|---|
| KPFF K0000 | S5.04 | |



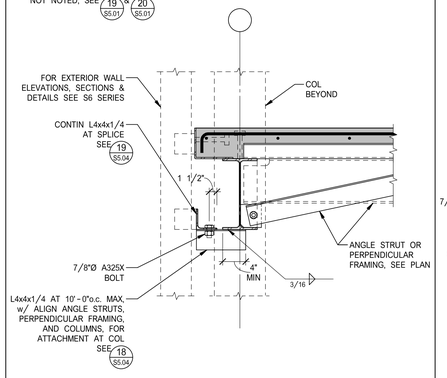

ANGLE STRUT DECK SUPPORT

| | SCALE: 1" = 1'-0" | 15 |
|---|---|---|
| KPFF K0000 | S5.04 | |



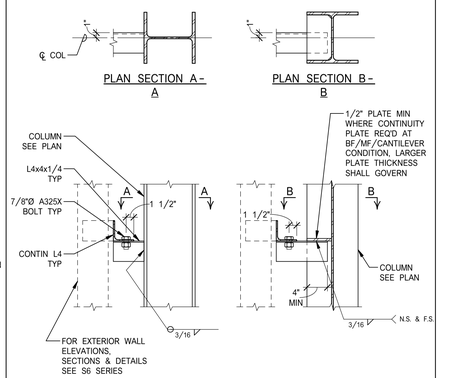

ANGLE STRUT

| | SCALE: 1" = 1'-0" | 16 |
|---|---|---|
| KPFF K0000 | S5.04 | |



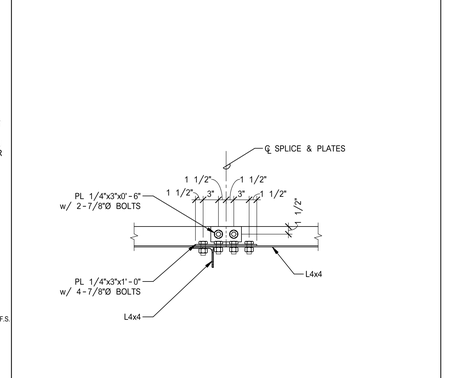

SECTION

| | SCALE: 1" = 1'-0" | 17 |
|---|---|---|
| KPFF K0000 | S5.04 | |




DETAIL

| | SCALE: 1" = 1'-0" | 18 |
|---|---|---|
| KPFF K0000 | S5.04 | |




SPLICE DETAIL

| | SCALE: 1" = 1'-0" | 19 |
|---|---|---|
| KPFF K0000 | S5.04 | |

**OWNER:** SRCS VENETIA VALLEY K-8

**PROJECT NAME:** CLASSROOM REPLACEMENT AND NEW MPR BUILDING

**CLIENT ADDRESS:** 177 N San Pedro Rd, San Rafael, CA 94903

**DESIGN DEVELOPMENT SET**

IDENTIFICATION STAMP
DIVISION OF THE STATE ARCHITECT
OFFICE OF REGULATION SERVICES

A#

AC_____ FLS_____ SS_____

DATE _____

**REVISIONS:**

| | DESCRIPTION | DATE |
|---|---|---|
| | | |

**DATE ISSUED:** 08-18-2017

**PROJECT NO:** 1700117.00

**SCALE:** AS NOTED

**SHEET NUMBER:** S5.04

**SHEET TITLE:**

# TYPICAL STEEL FRAMING DETAILS


kpff
45 Fremont Street, 28th floor
San Francisco, CA 94105
415.989.1004 | kpff.com

**SEOR Contact:**
blake.dilsworth@kpff.com
**Day-to-Day Contact:**
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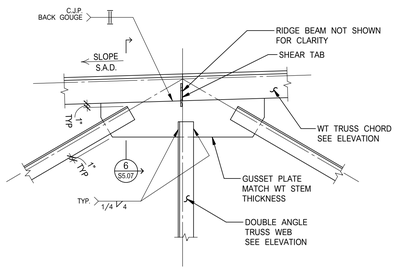
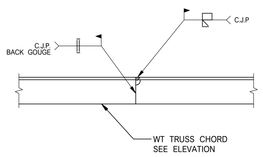
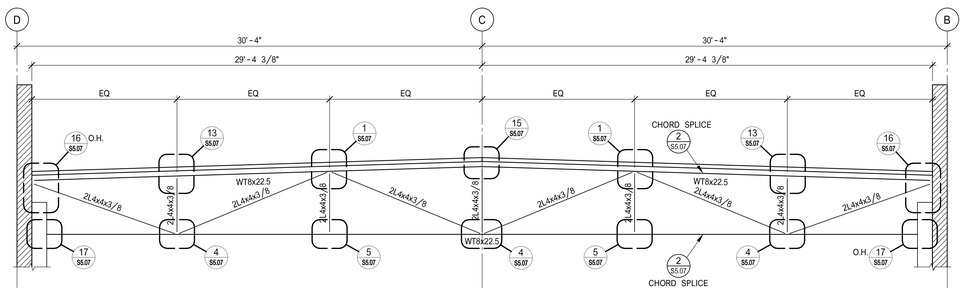


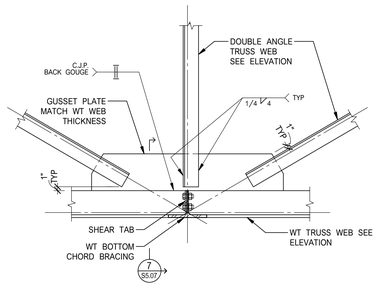

DETAIL — SCALE: 3/4" = 1'-0" — KPFF K0000 — **1** S5.07



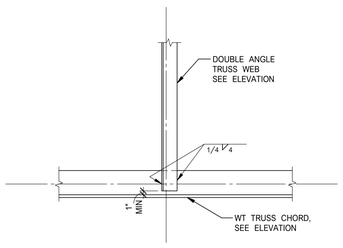

DETAIL — SCALE: 3/4" = 1'-0" — KPFF K0000 — **2** S5.07



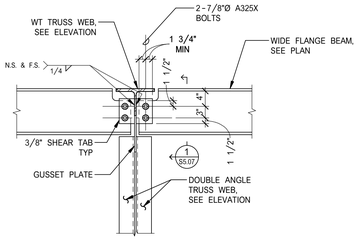

TRUSS ELEVATION — SCALE: 1/4" = 1'-0" — KPFF — **3** S5.07



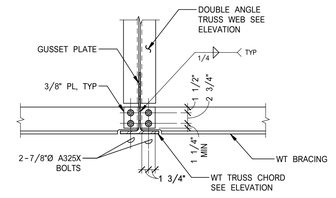

DETAIL — SCALE: 3/4" = 1'-0" — KPFF K0000 — **4** S5.07



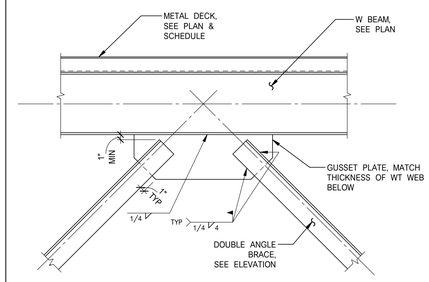

DETAIL — SCALE: 3/4" = 1'-0" — KPFF K0000 — **5** S5.07



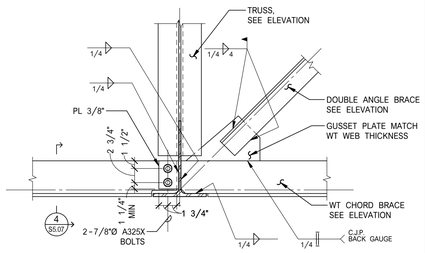

DETAIL — SCALE: 3/4" = 1'-0" — KPFF K0000 — **6** S5.07



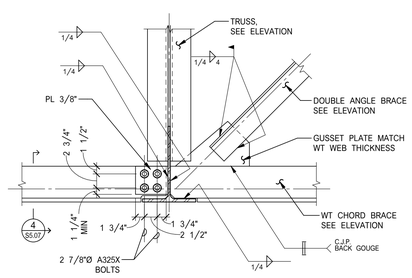

DETAIL — SCALE: 3/4" = 1'-0" — KPFF K0000 — **7** S5.07



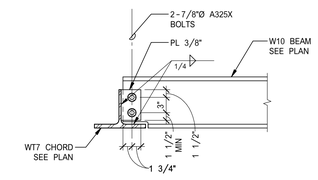

DETAIL — SCALE: 1" = 1'-0" — KPFF K0000 — **8** S5.07



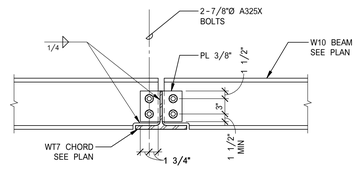

DETAIL — SCALE: 1" = 1'-0" — KPFF K0000 — **9** S5.07



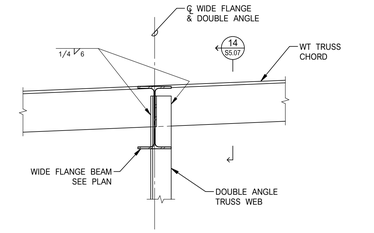

DETAIL — SCALE: 1" = 1'-0" — KPFF K0000 — **10** S5.07



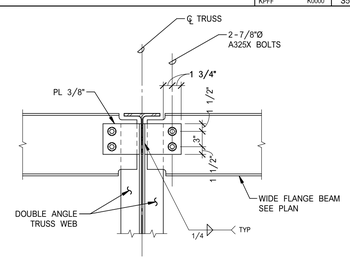

DETAIL — SCALE: 1" = 1'-0" — KPFF K0000 — **11** S5.07



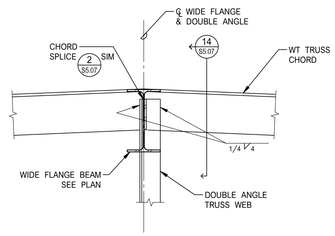

DETAIL — SCALE: 1" = 1'-0" — KPFF K0000 — **12** S5.07



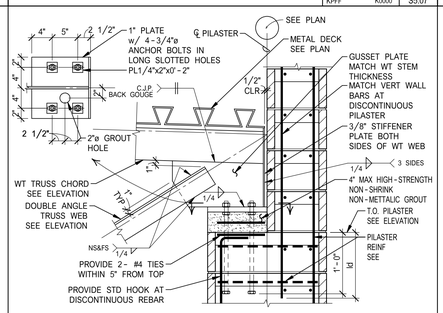

DETAIL — SCALE: 1" = 1'-0" — KPFF K0000 — **13** S5.07



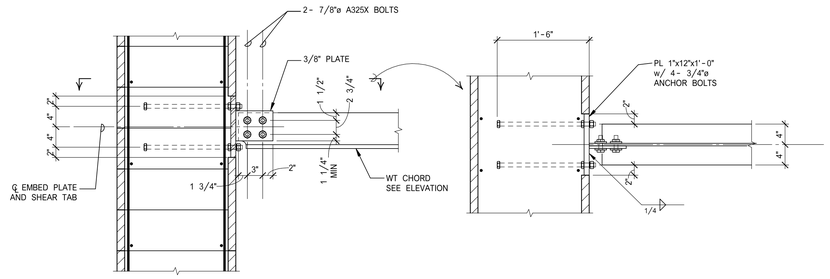

DETAIL — SCALE: 1" = 1'-0" — KPFF K0000 — **14** S5.07




DETAIL — SCALE: 1" = 1'-0" — KPFF K0000 — **15** S5.07




DETAIL — SCALE: 1" = 1'-0" — KPFF K0000 — **16** S5.07




DETAIL — SCALE: 1" = 1'-0" — KPFF K0000 — **17** S5.07

**OWNER:** SRCS VENETIA VALLEY K-8

**PROJECT NAME:** CLASSRROM REPLACEMENT AND NEW MPR BUILDING

**CLIENT ADDRESS:** 177 N San Pedro Rd, San Rafael, CA 94903

**DESIGN DEVELOPMENT SET**

**REVISIONS:**

| | DESCRIPTION | DATE |
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**DATE ISSUED:** 08-18-2017

**PROJECT NO:** 1700117.00

**SCALE:** AS NOTED

**SHEET NUMBER:** S5.07

**SHEET TITLE:**

# STEEL TRUSS ELEVATIONS AND DETAILS

SVA ARCHITECTS
3 MACARTHUR PLACE, SUITE 850 SANTA ANA, CA 92707
T 949.809.3380 WWW.SVA-ARCHITECTS.COM

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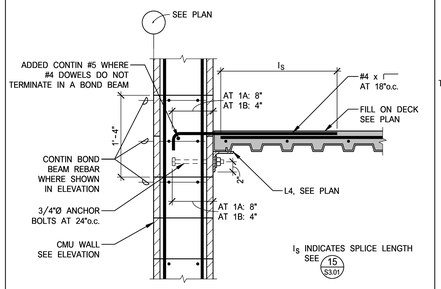
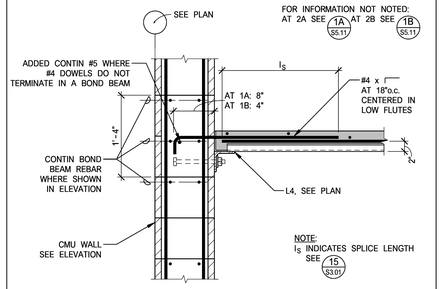



SECTION

| SCALE: | | |
|---|---|---|
| 1" = 1'-0" | | **1A 1B** |
| KPFF | K0000 | S5.11 |




SECTION

| SCALE: | | |
|---|---|---|
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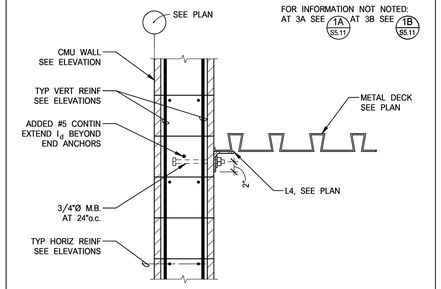
| KPFF | K0000 | S5.11 |




SECTION

| SCALE: | | |
|---|---|---|
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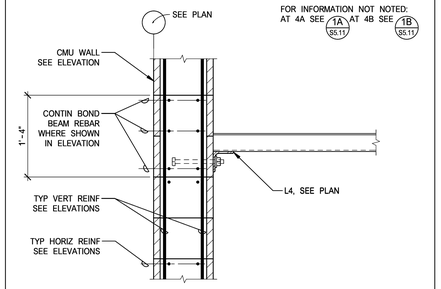
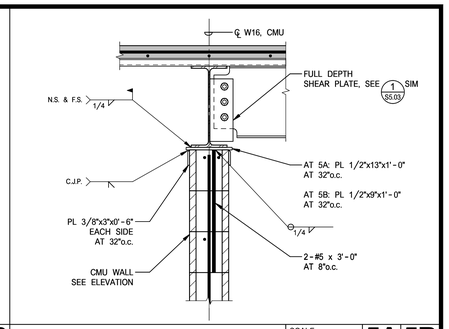


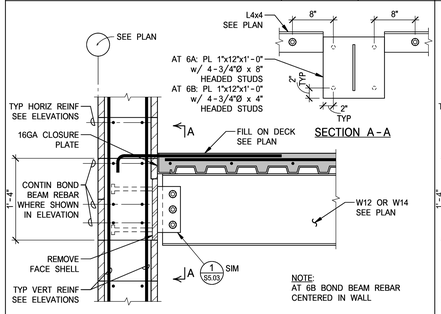

SECTION

| SCALE: | | |
|---|---|---|
| 1" = 1'-0" | | **4A 4B** |
| KPFF | K0000 | S5.11 |



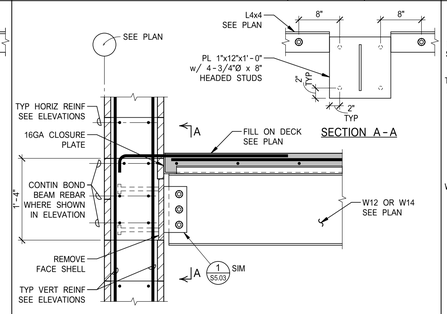

SECTION

| SCALE: | | |
|---|---|---|
| 1" = 1'-0" | | **5A 5B** |
| KPFF | K0000 | S5.11 |



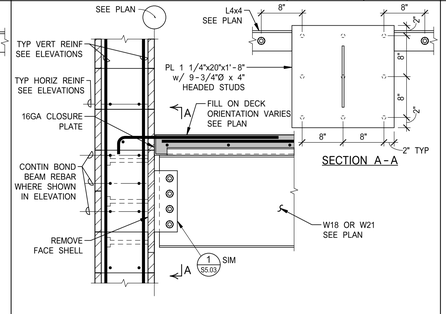

SECTION

| SCALE: | | |
|---|---|---|
| 1" = 1'-0" | | **6A 6B** |
| KPFF | K0000 | S5.11 |



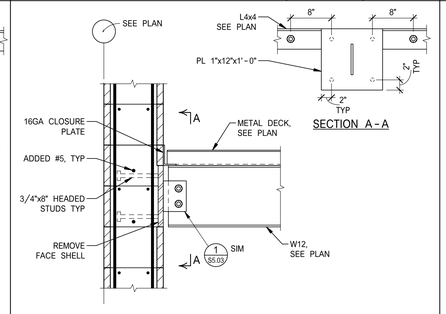

SECTION

| SCALE: | | |
|---|---|---|
| 1" = 1'-0" | | **7** |
| KPFF | K0000 | S5.08 |



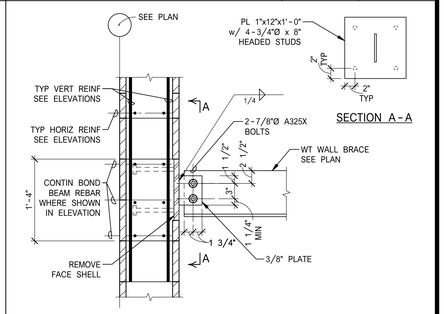

SECTION

| SCALE: | | |
|---|---|---|
| 1" = 1'-0" | | **8** |
| KPFF | K0000 | S5.08 |



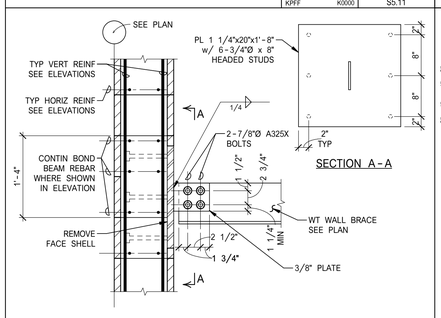

SECTION

| SCALE: | | |
|---|---|---|
| 1" = 1'-0" | | **9** |
| KPFF | K0000 | S5.08 |




SECTION

| SCALE: | | |
|---|---|---|
| 1" = 1'-0" | | **10** |
| KPFF | K0000 | S5.08 |




SECTION

| SCALE: | | |
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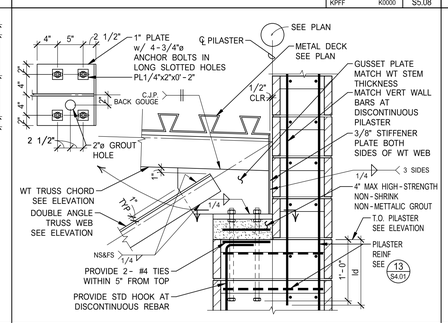
| 1" = 1'-0" | | **11** |
| KPFF | K0000 | S5.08 |




SECTION

| SCALE: | | |
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| 1" = 1'-0" | | **12** |
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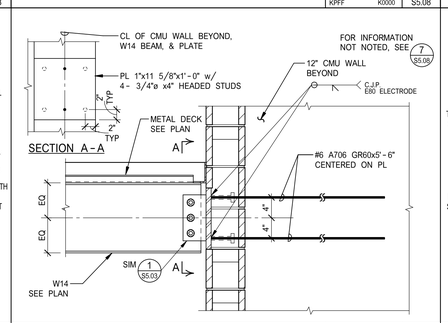
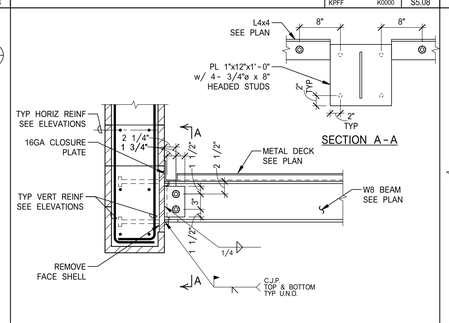


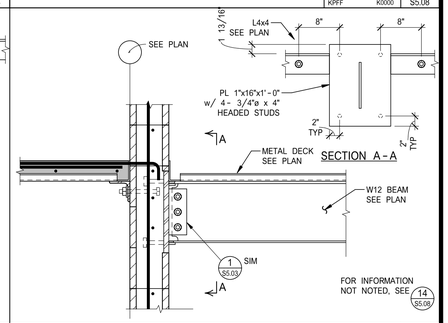

SECTION

| SCALE: | | |
|---|---|---|
| 1" = 1'-0" | | **13** |
| KPFF | K0000 | S5.08 |



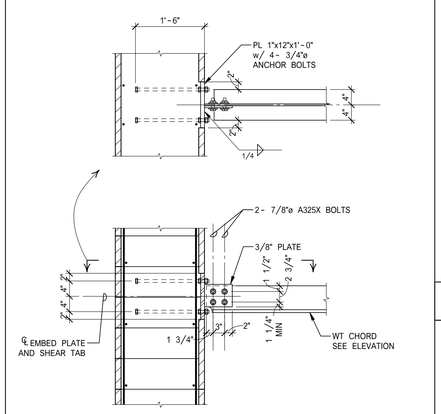

SECTION

| SCALE: | | |
|---|---|---|
| 1" = 1'-0" | | **14** |
| KPFF | K0000 | S5.08 |



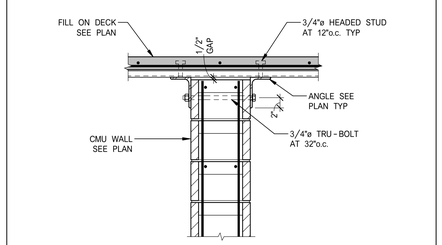

SECTION

| SCALE: | | |
|---|---|---|
| 1" = 1'-0" | | **15** |
| KPFF | K0000 | S5.08 |




DETAIL

| SCALE: | | |
|---|---|---|
| 3/4" = 1'-0" | | **16** |
| KPFF | K0000 | S5.08 |




SECTION

| SCALE: | | |
|---|---|---|
| 1" = 1'-0" | | **17** |
| KPFF | K0000 | S5.08 |

**OWNER:** SRCS VENETIA VALLEY K-8

**PROJECT NAME:** CLASSROM REPLACEMENT AND NEW MPR BUILDING

**CLIENT ADDRESS:** 177 N San Pedro Rd, San Rafael, CA 94903

**DESIGN DEVELOPMENT SET**

IDENTIFICATION STAMP
DIVISION OF THE STATE ARCHITECT
OFFICE OF REGULATION SERVICES

A#

AC_____ FLS_____ SS_____

DATE _____

**REVISIONS:**

| | DESCRIPTION | DATE |
|---|---|---|
| | | |

**DATE ISSUED:** 08-18-2017

**PROJECT NO:** 1700117.00

**SCALE:** AS NOTED

**SHEET NUMBER:** S5.08

**SHEET TITLE:**

# STEEL ROOF/CMU WALL FRAMING DETAILS

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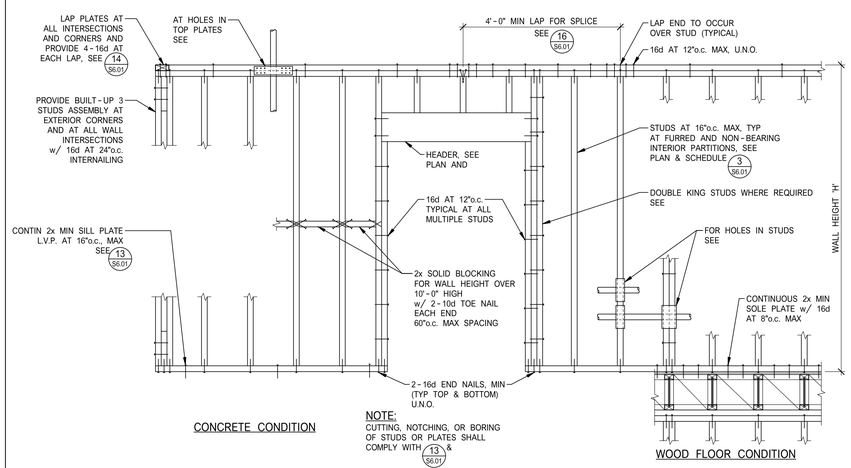
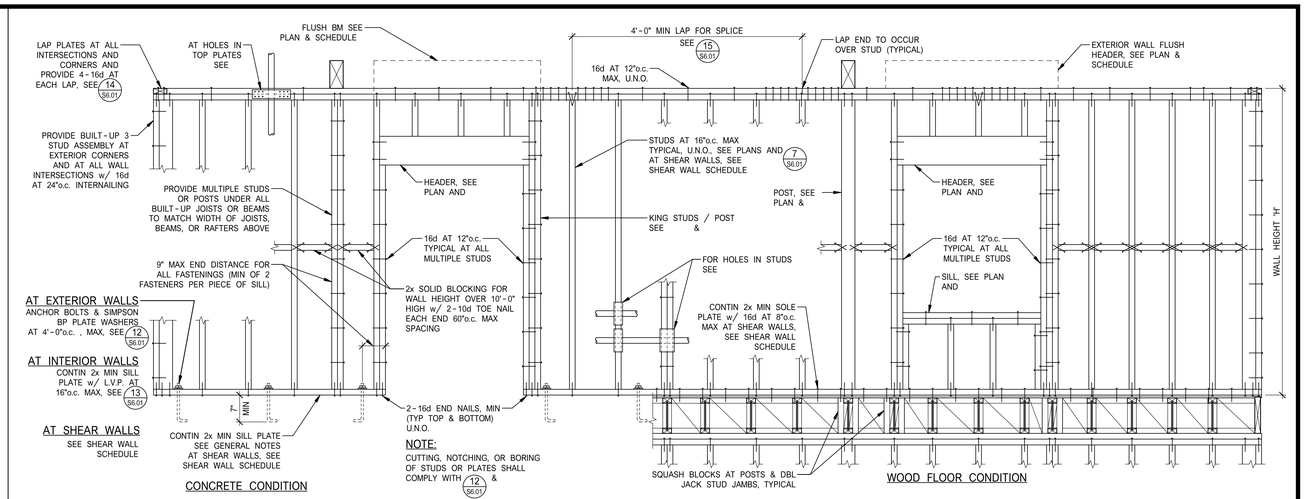



## TYPICAL WALL FRAMING DETAILS - NON-BEARING WALLS

SCALE: NONE | KPFF | K0000 | **1** | S6.01




## TYPICAL WALL FRAMING DETAILS - EXTERIOR AND INTERIOR BEARING/SHEAR WALLS

SCALE: NONE | KPFF | K0000 | **2** | S6.01

| STUD WALL SCHEDULE - INTERIOR NON-BEARING PARTITION WALL | | |
|---|---|---|
| MAX HEIGHT 'H' | INTERIOR WALL STUD SPACING U.N.O. | MINIMUM TIMBER GRADE |
| H ≤ 12'-0" | 2x4 AT 16"o.c. | STUD |
| H ≤ 15'-0" | 2x6 AT 16"o.c. | STUD |
| | | |

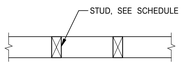
NOTE:
1. FOR JACK STUDS AND KING STUDS, SEE HEADER SCHEDULE.

INTERIOR NON-BEARING PARTITION WALL

## STUD WALL SCHEDULE

SCALE: NONE | KPFF | **3** | S6.01

| STUD WALL SCHEDULE - EXTERIOR WALL | | | | |
|---|---|---|---|---|
| NUMBER OF FLOORS SUPPORTED | 'H' MAX | STUD SPACING & SIZE | | |
| | | 4" WALL | 6" WALL | 8" WALL |
| ROOF | 9'-2" | 3x4 AT 16"o.c. | 2x6 AT 16"o.c. | 2x8 AT 16"o.c. |
| ROOF + 1 FLOOR | 9'-2" | 4x4 AT 16"o.c. | 2x6 AT 16"o.c. | 2x8 AT 16"o.c. |
| ROOF + 2 FLOORS | 9'-2" | 4x4 AT 16"o.c. | 2x6 AT 16"o.c. | 2x8 AT 16"o.c. |
| ROOF + 3 FLOORS | 9'-2" | 4x4 AT 16"o.c. | 2x6 AT 16"o.c. | 2x8 AT 16"o.c. |
| ROOF + 4 FLOORS | 9'-2" | 4x4 AT 16"o.c. | 2x6 AT 16"o.c. | 2x8 AT 16"o.c. |



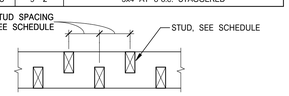

PLAN VIEW

EXTERIOR WALL

## STUD WALL SCHEDULE

SCALE: NONE | KPFF | **4** | S6.01

| STUD WALL SCHEDULE - CORRIDOR WALL | | |
|---|---|---|
| NUMBER OF FLOORS SUPPORTED | 'H' MAX | STUD SPACING & SIZE |
| ROOF | 9'-2" | 2x4 STAGGERED AT 8"o.c. |
| ROOF + 1 FLOOR | 9'-2" | 2x4 AT 8"o.c. STAGGERED |
| ROOF + 2 FLOORS | 9'-2" | 2x4 AT 8"o.c. STAGGERED |
| ROOF + 3 FLOORS | 9'-2" | 3x4 AT 8"o.c. STAGGERED |
| ROOF + 4 FLOORS | 9'-2" | 3x4 AT 8"o.c. STAGGERED |



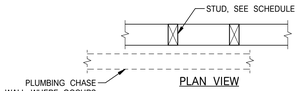

PLAN VIEW

CORRIDOR STAGGERED STUD WALL

## STUD WALL SCHEDULE

SCALE: NONE | KPFF | **5** | S6.01

| STUD WALL SCHEDULE - INTERIOR BEARING WALL | | | |
|---|---|---|---|
| NUMBER OF FLOORS SUPPORTED | 'H' MAX | STUD SPACING & SIZE | |
| | | 4" WALL | 6" WALL |
| ROOF | 9'-2" | 2x4 AT 16"o.c. | 2x6 AT 16"o.c. |
| ROOF + 1 FLOOR | 9'-2" | 2x4 AT 16"o.c. | 2x6 AT 16"o.c. |
| ROOF + 2 FLOORS | 9'-2" | 3x4 AT 16"o.c. | 2x6 AT 16"o.c. |
| ROOF + 3 FLOORS | 9'-2" | 4x4 AT 16"o.c. | 2x6 AT 16"o.c. |
| ROOF + 4 FLOORS | 9'-2" | 4x4 AT 16"o.c. | 2x6 AT 16"o.c. |

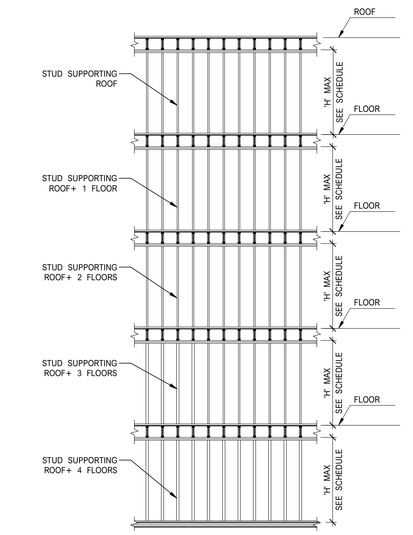



PLAN VIEW

INTERIOR BEARING WALL

## STUD WALL SCHEDULE

SCALE: NONE | KPFF | K0000 | **6** | S6.01

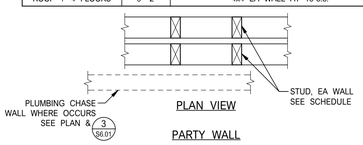



NOTE:
1. FOR JACK STUD AND KING STUDS, SEE HEADER SCHEDULES
2. PROVIDE 3x STUDS MIN WHERE REQUIRED, SEE SHEAR WALL SCHEDULE, BUT NOT SMALLER THAN REQUIRED BY STUD WALL SCHEDULE
3. FOR TYPICAL STUD SIZE & SPACING, U.N.O., OTHERWISE
   a. FOR INTERIOR NON-BEARING PARTITION WALL, SEE 3 S6.01
   b. FOR EXTERIOR WALLS, SEE 4 S6.01
   c. FOR CORRIDOR WALLS, SEE 5 S6.01
   d. FOR INTERIOR BEARING WALLS, SEE 6 S6.01
   e. FOR PARTY WALLS, SEE 8 S6.01

## ELEVATION

SCALE: NONE | KPFF | **7** | S6.01

| STUD WALL SCHEDULE - CORRIDOR WALL | | |
|---|---|---|
| NUMBER OF FLOORS SUPPORTED | 'H' MAX | STUD SPACING & SIZE |
| ROOF | 9'-2" | 2x4 EA WALL AT 16"o.c. |
| ROOF + 1 FLOOR | 9'-2" | 2x4 EA WALL AT 16"o.c. |
| ROOF + 2 FLOORS | 9'-2" | 3x4 EA WALL AT 16"o.c. |
| ROOF + 3 FLOORS | 9'-2" | 3x4 EA WALL AT 16"o.c. |
| ROOF + 4 FLOORS | 9'-2" | 4x4 EA WALL AT 16"o.c. |




PLAN VIEW

PARTY WALL

## STUD WALL SCHEDULE

SCALE: NONE | KPFF | **8** | S6.01

## NOT USED

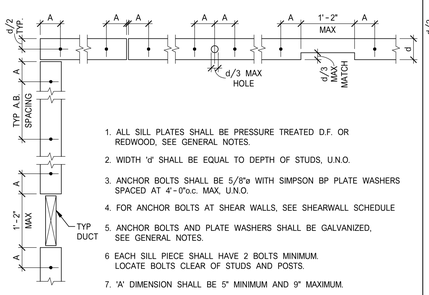
SCALE: NONE | KPFF | **9** | S6.01

## NOT USED

SCALE: NONE | KPFF | **10** | S6.01

## NOT USED

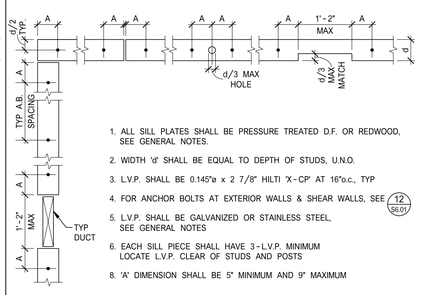
SCALE: NONE | KPFF | **11** | S6.01




ANCHOR BOLT AND SILL PLATE AT EXTERIOR WALLS AND INTERIOR SHEAR WALLS

## DETAIL

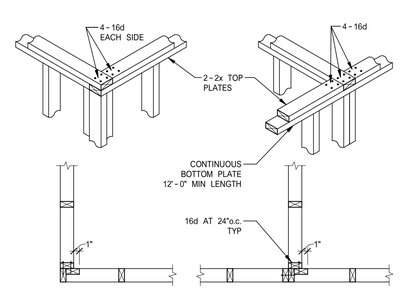
SCALE: NONE | KPFF | K0000 | **12** | S6.01




L.V.P. AND SILL PLATE AT INTERIOR BEARING & PARTITION WALLS

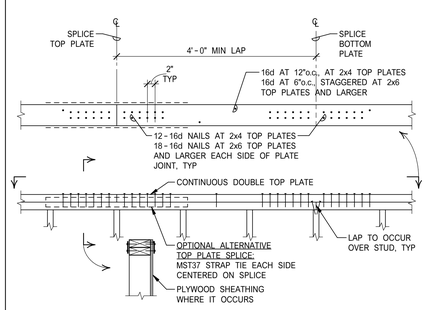
## DETAIL

SCALE: NONE | KPFF | **13** | S6.01




## STUD WALL INTERSECTION

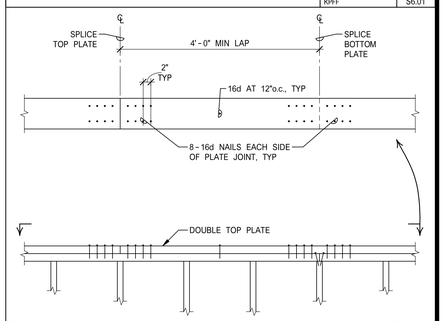
SCALE: NONE | KPFF | **14** | S6.01




SECTION

## WALL TOP PLATE LAP

SCALE: NONE | KPFF | **15** | S6.01




## WALL TOP PLATE LAP

SCALE: NONE | KPFF | **16** | S6.01

**OWNER:** SRCS VENETIA VALLEY K-8

**PROJECT NAME:** CLASSROM REPLACEMENT AND NEW MPR BUILDING

**CLIENT ADDRESS:** 177 N San Pedro Rd, San Rafael, CA 94903

**DESIGN DEVELOPMENT SET**

IDENTIFICATION STAMP
DIVISION OF THE STATE ARCHITECT
OFFICE OF REGULATION SERVICES

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AC_____ FLS_____ SS_____

DATE _____

**REVISIONS:**

| | DESCRIPTION | DATE |
|---|---|---|
| | | |

**DATE ISSUED:** 08-18-2017

**PROJECT NO:** 1700117.00

**SCALE:** AS NOTED

**SHEET NUMBER:** S6.01

**SHEET TITLE:**

# WOOD STUD WALL SCHEDULES AND DETAILS

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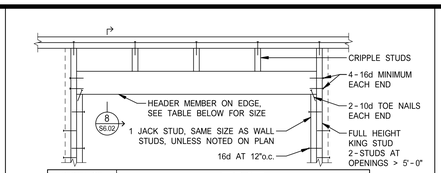
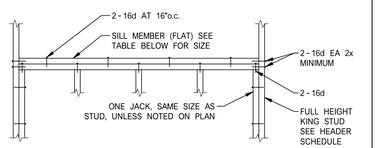



| WIDTH OF OPENING | STUD SIZE | |
|---|---|---|
| | 2x4 | 2x6 |
| 3' - 0" MAX | 2 - 2x4 or 4x4 | 3 - 2x4 or 6x6 |
| 5' - 0" MAX | 2 - 2x6 or 4x6 | 3 - 2x6 or 6x6 |
| 8' - 0" MAX | 2 - 2x8 or 4x8 | 3 - 2x8 or 6x8 |
| OVER 8' - 0" | SEE SPECIFIC DETAILS | |

NOTE: HEADERS NOTED IN TABLE SHALL BE PROVIDED OVER ALL WINDOW, DOOR, AND OTHER OPENINGS, UNLESS NOTED OTHERWISE ON PLANS AND SPECIFIC DETAILS. A FULL DEPTH HEADER MAY BE USED IN LIEU OF THE HEADERS NOTED IN THE TABLE. IF A FULL DEPTH HEADER IS USED, THE CRIPPLE STUDS MAY BE OMITTED.

## HEADER SCHEDULE (NON - BEARING)

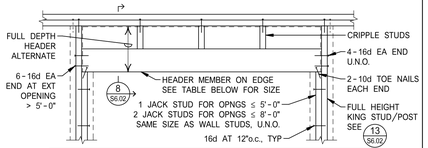
SCALE: NONE | KPFF | 1 S6.02




| WIDTH OF OPENING | STUD WIDTH SIZE | | |
|---|---|---|---|
| | 2x4 | 2x6 | 2x8 |
| 3' - 0" MAX | 1 - 2x4 | 1 - 2x6 | 1 - 2x8 |
| 5' - 0" MAX | 2 - 2x4 | 2 - 2x6 | 2 - 2x8 |
| 8' - 0" MAX | 3 - 2x4 | 3 - 2x6 | 3 - 2x8 |
| OVER 8' - 0" | SEE PLANS AND SPECIFIC DETAILS | | |

## SILL SCHEDULE

SCALE: NONE | KPFF K0000 | 2 S6.02

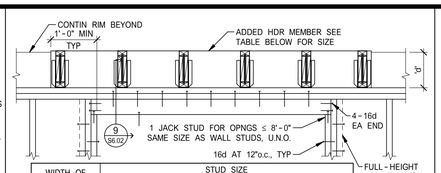



| WIDTH OF OPENING | STUD SIZE | | |
|---|---|---|---|
| | 2x4 | 2x6 | 2x8 |
| 3' - 0" MAX | 4x6 | 6x6 | 2 - 4x6 |
| 5' - 0" MAX | 4x8 | 6x8 | 2 - 4x8 |
| 8' - 0" MAX | 4x10 | 6x10 | 2 - 4x10 |
| OVER 8' - 0" | SEE PLAN AND SPECIFIC DETAILS | | |

NOTE: HEADERS NOTED IN TABLE SHALL BE PROVIDED OVER ALL WINDOW, DOOR, AND OTHER OPENINGS, UNLESS NOTED OTHERWISE ON PLANS AND SPECIFIC DETAILS. A FULL DEPTH HEADER MAY BE USED IN LIEU OF THE HEADERS NOTED IN THE TABLE. IF A FULL DEPTH HEADER IS USED, THE CRIPPLE STUDS MAY BE OMITTED.

## HEADER SCHEDULE

SCALE: NONE | KPFF K0000 | 3 S6.02

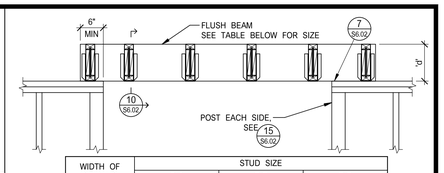



| WIDTH OF OPENING | STUD SIZE | | |
|---|---|---|---|
| | 2x4 | 2x6 | 2x8 |
| 3' - 0" MAX | 1 3/4 x 'd' LSL | 1 3/4 x 'd' LSL | 1 3/4 x 'd' LSL |
| 5' - 0" MAX | 1 3/4 x 'd' LSL | 1 3/4 x 'd' LSL | 1 3/4 x 'd' LSL |
| 8' - 0" MAX | 3 1/2 x 'd' LSL | 3 1/2 x 'd' LSL | 3 1/2 x 'd' LSL |
| OVER 8' - 0" | SEE PLAN AND SPECIFIC DETAILS | | |

NOTES:
1. HEADERS NOTED IN TABLE SHALL BE PROVIDED OVER ALL WINDOW, DOOR, AND OTHER OPENINGS, UNLESS NOTED OTHERWISE ON PLANS AND SPECIFIC DETAILS.
2. 'd' TO MATCH FLOOR FRAMING DEPTH

## FLUSH HDR SCHED - EXT WALL

SCALE: NONE | KPFF K0000 | 4 S6.02

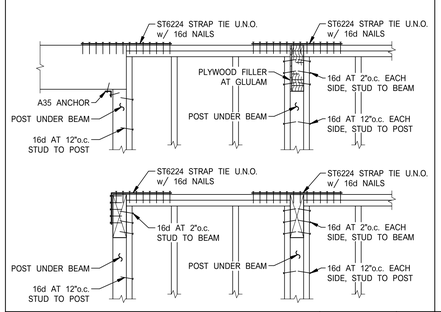



| WIDTH OF OPENING | STUD SIZE | | |
|---|---|---|---|
| | 2x4 | 2x6 | 2x8 |
| 3' - 0" MAX | 4 x 'd' LSL | 4 x 'd' LSL | 4 x 'd' LSL |
| 5' - 0" MAX | 4 x 'd' LSL | 4 x 'd' LSL | 4 x 'd' LSL |
| 8' - 9" MAX | 3 1/2 x 'd' LSL | 3 1/2 x 'd' LSL | 3 1/2 x 'd' LSL |
| OVER 8' - 0" | SEE PLAN AND SPECIFIC DETAILS | | |

NOTES:
1. HEADERS NOTED IN TABLE SHALL BE PROVIDED OVER ALL WINDOW, DOOR, AND OTHER OPENINGS, UNLESS NOTED OTHERWISE ON PLANS AND SPECIFIC DETAILS.
2. 'd' TO MATCH FLOOR FRAMING DEPTH
3. MEMBER WIDTH IS THE MINIMUM

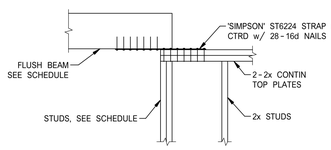
## FLUSH BEAM SCHEDULE

SCALE: NONE | KPFF K0000 | 5 S6.02




## TOP PLATE STRAP AT BEAM

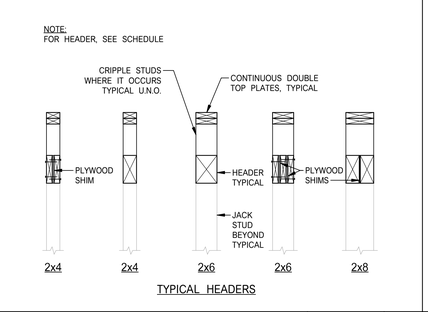
SCALE: NONE | KPFF K0035 | 6 S6.02




FLUSH BEAM STRAP

## DETAIL

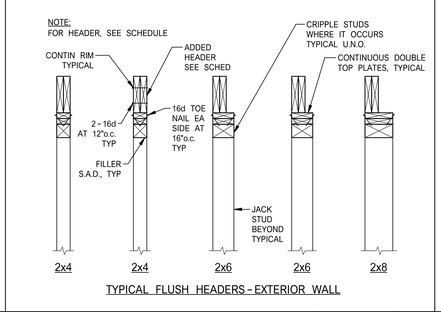
SCALE: NONE | KPFF K0000 | 7 S6.02




TYPICAL HEADERS

## DETAIL

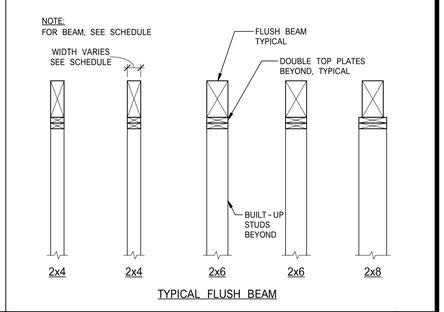
SCALE: NONE | KPFF K0000 | 8 S6.02




TYPICAL FLUSH HEADERS - EXTERIOR WALL

## DETAIL

SCALE: NONE | KPFF K0000 | 9 S6.02




TYPICAL FLUSH BEAM

## DETAIL

SCALE: NONE | KPFF K0000 | 10 S6.02




## SECTION

SCALE: 1" = 1' - 0" | KPFF K0000 | 11 S6.02




BEAM BELOW FRAMING

## SECTION

SCALE: 1" = 1' - 0" | KPFF K0000 | 12 S6.02

| WIDTH OF OPENING | 3' - 0" MAX | | 5' - 0" MAX | | 8' - 0" MAX | |
|---|---|---|---|---|---|---|
| STUD SIZE | 4" | 6" | 4" | 6" | 4" | 6" |
| ROOF | 2x4 | 2x6 | 2x4 | 2x6 | 2x4 | 2x6 |
| ROOF + 1 FLOOR | 2x4 | 2x6 | 2x4 | 2x6 | 2 - 2x4 | 2x6 |
| ROOF + 2 FLOORS | 2x4 | 2x6 | 2 - 2x4 | 2x6 | 2 - 2x4 | 2x6 |
| ROOF + 3 FLOORS | 2 - 2x4 | 2x6 | 2 - 2x4 | 2x6 | 2 - 2x4 | 2 - 2x6 |
| ROOF + 4 FLOORS | 2 - 2x4 | 2x6 | 2 - 2x4 | 2 - 2x6 | 2 - 2x4 | 2 - 2x6 |

NOTES:
1. FOR HDR SIZE, SEE SCHEDULE 3/S6.02 & 4/S6.02
2. POST LISTED SHALL BE PROVIDED AT EACH END OF BEAM, U.N.O.
3. POST SIZE IS THE MINIMUM. U.N.O. ON PLAN.

## SCHEDULE

SCALE: NONE | KPFF K0000 | 13 S6.02

| WIDTH OF OPENING | 3' - 0" MAX | | 5' - 0" MAX | | 8' - 0" MAX | |
|---|---|---|---|---|---|---|
| STUD SIZE | 2x4 | 2x6 | 2x4 | 2x6 | 2x4 | 2x6 |
| ROOF | N.A. | 2x6 | N.A. | 2x6 | N.A. | 2x6 |
| ROOF + 1 FLOOR | N.A. | 2x6 | N.A. | 2x6 | N.A. | 2x6 |
| ROOF + 2 FLOORS | N.A. | 2x6 | N.A. | 2 - 2x6 | N.A. | 2 - 2x6 |
| ROOF + 3 FLOORS | N.A. | 2 - 2x6 | N.A. | 2 - 2x6 | N.A. | 2 - 2x6 |
| ROOF + 4 FLOORS | N.A. | 2 - 2x6 | N.A. | 2 - 2x6 | N.A. | 2 - 2x6 |

NOTES:
1. FOR HDR SIZE, SEE SCHEDULE 4/S6.02
2. POST LISTED SHALL BE PROVIDED AT EACH END OF BEAM, U.N.O.
3. POST SIZE IS THE MINIMUM, U.N.O. ON PLAN.

## FLUSH HDR/POST SCHEDULE

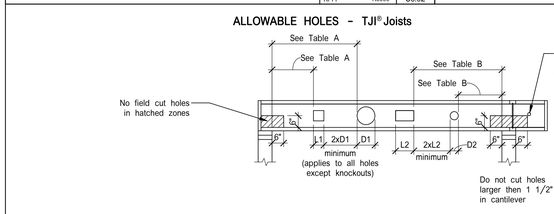
SCALE: NONE | KPFF K0000 | 14 S6.02

| WIDTH OF OPENING | 3' - 0" MAX | | 5' - 0" MAX | | 8' - 0" MAX | |
|---|---|---|---|---|---|---|
| STUD SIZE | 2x4 | 2x6 | 2x4 | 2x6 | 2x4 | 2x6 |
| ROOF | 3x4 | 2 - 2x6 | 2 - 2x4 | 2 - 2x6 | N.A. | 2 - 2x6 |
| ROOF + 1 FLOOR | 4x4 | 2 - 2x6 | 4x6 | 2 - 2x6 | N.A. | 2 - 2x6 |
| ROOF + 2 FLOORS | 4x6 | 2 - 2x6 | 4x8 | 4x6 | N.A. | 6x6 |
| ROOF + 3 FLOORS | 4x6 | 4x6 | 4x10 | 6x6 | N.A. | 6x8 |
| ROOF + 4 FLOORS | 4x8 | 4x6 | 4x10 | 6x6 | N.A. | 6x10 |

NOTES:
1. FOR HDR SIZE, SEE SCHEDULE 5/S6.02
2. POST LISTED SHALL BE PROVIDED AT EACH END OF BEAM, U.N.O.
3. POST SIZE IS THE MINIMUM, U.N.O. ON PLAN.

## FLUSH BEAM/POST SCHEDULE

SCALE: NONE | KPFF K0000 | 15 S6.02



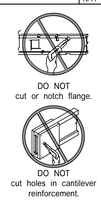




Table A - End Support

Minimum distance from edge of hole to inside face of nearest end support

| DEPTH | TJI® | ROUND HOLE SIZE | | | | | | SQ. OR RECTANGULAR HOLE SIZE | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | | 2" | 3" | 4" | 6 1/2" | 8 7/8" | 11" | 13" | 2" | 3" | 4" | 6 1/2" | 8 7/8" | 11" | 13" |
| 9 1/2" | 110 | 1' - 0" | 1' - 6" | 2' - 0" | 5' - 0" | | | | 1' - 0" | 1' - 6" | 2' - 6" | 4' - 6" | | | |
| | 210 | 1' - 0" | 1' - 6" | 2' - 0" | 5' - 0" | | | | 1' - 0" | 2' - 0" | 2' - 6" | 5' - 0" | | | |
| | 230 | 1' - 0" | 2' - 0" | 2' - 6" | 5' - 6" | | | | 1' - 0" | 2' - 0" | 3' - 0" | 5' - 0" | | | |
| | 360 | 1' - 0" | 2' - 0" | 3' - 0" | 6' - 0" | | | | 1' - 6" | 2' - 6" | 3' - 6" | 5' - 6" | | | |
| 11 7/8" | 110 | 1' - 0" | 1' - 0" | 1' - 0" | 2' - 6" | 5' - 0" | | | 1' - 0" | 1' - 0" | 1' - 6" | 4' - 6" | 6' - 0" | | |
| | 210 | 1' - 0" | 1' - 0" | 1' - 0" | 2' - 6" | 5' - 6" | | | 1' - 0" | 1' - 0" | 2' - 0" | 5' - 0" | 6' - 6" | | |
| | 230 | 1' - 0" | 1' - 0" | 1' - 0" | 3' - 0" | 6' - 0" | | | 1' - 0" | 1' - 0" | 2' - 0" | 5' - 6" | 7' - 0" | | |
| | 360 | 1' - 0" | 1' - 0" | 1' - 6" | 4' - 6" | 7' - 0" | | | 1' - 0" | 1' - 0" | 2' - 6" | 6' - 6" | 7' - 6" | | |
| 14" | 560 | 1' - 0" | 1' - 0" | 1' - 6" | 5' - 0" | 8' - 0" | | | 1' - 0" | 2' - 0" | 3' - 6" | 7' - 0" | 8' - 0" | | |
| | 110 | 1' - 0" | 1' - 0" | 1' - 0" | 1' - 0" | 2' - 6" | 5' - 0" | | 1' - 0" | 1' - 0" | 1' - 0" | 3' - 0" | 6' - 0" | 8' - 0" | |
| | 210 | 1' - 0" | 1' - 0" | 1' - 0" | 1' - 0" | 3' - 0" | 6' - 0" | | 1' - 0" | 1' - 0" | 1' - 0" | 4' - 0" | 6' - 6" | 8' - 6" | |
| | 230 | 1' - 0" | 1' - 0" | 1' - 0" | 1' - 6" | 3' - 6" | 6' - 6" | | 1' - 0" | 1' - 0" | 1' - 0" | 4' - 0" | 7' - 0" | 9' - 0" | |
| | 360 | 1' - 0" | 1' - 0" | 1' - 0" | 2' - 6" | 5' - 6" | 8' - 0" | | 1' - 0" | 1' - 0" | 1' - 0" | 5' - 6" | 8' - 0" | 9' - 6" | |
| | 560 | 1' - 0" | 1' - 0" | 1' - 0" | 2' - 6" | 6' - 0" | 9' - 0" | | 1' - 0" | 1' - 0" | 1' - 6" | 6' - 6" | 9' - 0" | 10' - 0" | |
| 16" | 210 | 1' - 0" | 1' - 0" | 1' - 0" | 1' - 0" | 3' - 6" | 6' - 6" | 10' - 0" | 1' - 0" | 1' - 0" | 1' - 0" | 4' - 6" | 6' - 6" | 8' - 0" | 10' - 6" |
| | 230 | 1' - 0" | 1' - 0" | 1' - 0" | 1' - 0" | 4' - 0" | 7' - 0" | 10' - 6" | 1' - 0" | 1' - 0" | 1' - 0" | 5' - 0" | 7' - 0" | 9' - 0" | 11' - 0" |
| | 360 | 1' - 0" | 1' - 0" | 1' - 0" | 1' - 0" | 4' - 0" | 7' - 0" | 11' - 0" | 1' - 0" | 1' - 0" | 1' - 0" | 5' - 0" | 7' - 0" | 9' - 0" | 11' - 0" |
| | 560 | 1' - 0" | 1' - 0" | 1' - 0" | 1' - 0" | 5' - 0" | 8' - 0" | 12' - 0" | 1' - 0" | 1' - 0" | 1' - 0" | 5' - 0" | 8' - 0" | 10' - 0" | 12' - 0" |

Table B - Intermediate or Cantilever Support

Minimum distance from edge of hole to inside face of nearest intermediate or cantilever support

| DEPTH | TJI® | ROUND HOLE SIZE | | | | | | SQ. OR RECTANGULAR HOLE SIZE | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | | 2" | 3" | 4" | 6 1/2" | 8 7/8" | 11" | 13" | 2" | 3" | 4" | 6 1/2" | 8 7/8" | 11" | 13" |
| 9 1/2" | 110 | 1' - 6" | 2' - 6" | 3' - 0" | 7' - 6" | | | | 1' - 6" | 2' - 6" | 3' - 0" | 6' - 6" | | | |
| | 210 | 2' - 0" | 2' - 6" | 3' - 6" | 7' - 6" | | | | 2' - 0" | 3' - 0" | 4' - 0" | 7' - 0" | | | |
| | 230 | 2' - 6" | 3' - 0" | 4' - 0" | 8' - 0" | | | | 2' - 6" | 3' - 0" | 4' - 6" | 7' - 6" | | | |
| | 360 | 3' - 0" | 4' - 0" | 5' - 6" | 9' - 0" | | | | 3' - 0" | 4' - 0" | 5' - 6" | 8' - 0" | | | |
| 11 7/8" | 110 | 1' - 0" | 1' - 0" | 1' - 6" | 4' - 0" | 8' - 0" | | | 1' - 0" | 1' - 6" | 2' - 6" | 6' - 6" | 9' - 0" | | |
| | 210 | 1' - 0" | 1' - 0" | 2' - 0" | 4' - 6" | 9' - 0" | | | 1' - 0" | 2' - 0" | 3' - 0" | 7' - 6" | 10' - 0" | | |
| | 230 | 1' - 0" | 2' - 0" | 2' - 6" | 5' - 0" | 9' - 6" | | | 1' - 0" | 2' - 6" | 3' - 6" | 8' - 0" | 10' - 0" | | |
| | 360 | 2' - 0" | 3' - 0" | 4' - 0" | 7' - 0" | 11' - 0" | | | 2' - 0" | 3' - 6" | 5' - 0" | 9' - 6" | 11' - 0" | | |
| 14" | 560 | 1' - 6" | 3' - 0" | 4' - 6" | 8' - 0" | 12' - 0" | | | 3' - 0" | 4' - 6" | 6' - 0" | 10' - 6" | 12' - 0" | | |
| | 110 | 1' - 6" | 1' - 0" | 1' - 0" | 2' - 6" | 5' - 0" | 9' - 0" | 12' - 0" | 1' - 0" | 1' - 0" | 2' - 0" | 5' - 0" | 9' - 0" | 12' - 0" | |
| | 210 | 1' - 0" | 1' - 0" | 1' - 0" | 2' - 6" | 5' - 0" | 9' - 0" | | 1' - 0" | 1' - 0" | 2' - 6" | 6' - 0" | 10' - 0" | 12' - 6" | |
| | 230 | 1' - 0" | 1' - 0" | 1' - 0" | 3' - 0" | 5' - 6" | 10' - 0" | | 1' - 0" | 1' - 0" | 2' - 6" | 6' - 0" | 10' - 6" | 13' - 0" | |
| | 360 | 1' - 0" | 1' - 0" | 1' - 0" | 3' - 0" | 6' - 0" | 10' - 6" | | 1' - 0" | 1' - 0" | 2' - 6" | 6' - 6" | 11' - 0" | 14' - 0" | |
| | 560 | 1' - 0" | 1' - 0" | 1' - 0" | 3' - 0" | 6' - 6" | 11' - 0" | | 1' - 0" | 1' - 0" | 2' - 6" | 7' - 0" | 11' - 6" | 15' - 0" | |
| 16" | 210 | 1' - 0" | 1' - 0" | 1' - 0" | 1' - 0" | 3' - 0" | 6' - 0" | 9' - 0" | 15' - 0" | 1' - 0" | 1' - 0" | 3' - 6" | 9' - 0" | 12' - 6" | 15' - 6" |
| | 230 | 1' - 0" | 1' - 0" | 1' - 0" | 1' - 0" | 3' - 0" | 6' - 6" | 10' - 0" | 16' - 0" | 1' - 0" | 1' - 0" | 3' - 6" | 9' - 6" | 12' - 6" | 16' - 0" |
| | 360 | 1' - 0" | 1' - 0" | 1' - 0" | 1' - 0" | 3' - 0" | 6' - 6" | 10' - 0" | 16' - 0" | 1' - 0" | 1' - 0" | 3' - 6" | 9' - 6" | 13' - 0" | 16' - 0" |
| | 560 | 1' - 0" | 1' - 0" | 1' - 0" | 1' - 0" | 3' - 0" | 6' - 6" | 10' - 0" | 16' - 0" | 1' - 0" | 1' - 0" | 3' - 6" | 9' - 6" | 13' - 0" | 16' - 0" |

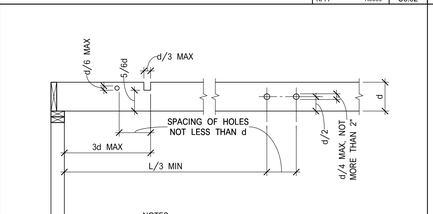
| | | 4" | 6" | 8" | 10" | 12" | 15" | 17" | 4" | 6" | 8" | 10" | 12" | 15" | 17" |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 18" | 360 | 1' - 0" | 1' - 0" | 1' - 0" | 2' - 0" | 5' - 0" | 10' - 0" | | 1' - 0" | 1' - 0" | 1' - 0" | 5' - 0" | 10' - 0" | 11' - 0" | 13' - 6" |
| | 560 | 1' - 0" | 1' - 0" | 1' - 0" | 1' - 0" | 5' - 0" | 11' - 0" | | 1' - 0" | 1' - 0" | 1' - 6" | 6' - 6" | 11' - 0" | 12' - 0" | 14' - 6" |
| 20" | 360 | 1' - 0" | 1' - 0" | 1' - 0" | 1' - 0" | 2' - 0" | 7' - 0" | 10' - 6" | 1' - 0" | 1' - 0" | 1' - 0" | 2' - 6" | 8' - 0" | 11' - 6" | 14' - 0" | 15' - 6" |
| | 560 | 1' - 0" | 1' - 0" | 1' - 0" | 1' - 0" | 1' - 0" | 7' - 0" | 11' - 0" | 1' - 0" | 1' - 0" | 1' - 0" | 4' - 0" | 9' - 6" | 12' - 6" | 14' - 6" | 15' - 6" |

Rectangular holes based on measurement of longest side.

- Holes may be located vertically anywhere within the web. Leave 1/8" of web (minimum) at top and bottom of hole.
- Knockouts are located in web at approximately 12" on - center; they do not affect hole placement.
- For simple span (5' minimum) uniformly loaded joists meeting the requirements of current Trus Joist product guides, one maximum size round hole may be located at the center of the joist span provided no other holes occur in the joist.
- Distances are based on the maximum uniform loads shown in current Trus Joist product guides. For other load conditions or hole configurations contact your Trus Joist representative.

## SCHEDULE

SCALE: NONE | KPFF K0000 | 16 S6.02

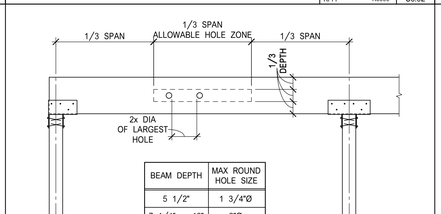



NOTES:
1. d = DEPTH OF JOIST OR BEAM
2. L = CLEAR SPAN OF JOIST BETWEEN SUPPORTS
3. HOLES OR NOTCHES NOT PERMITTED WHERE d = 4" OR LESS IN JOISTS OR BEAMS.

ALLOWABLE IN SOLID SAWN JOISTS OR BEAMS

## SOLID SAWN HOLES

SCALE: NONE | KPFF K0000 | 17 S6.02

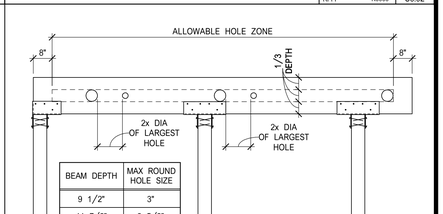



| BEAM DEPTH | MAX ROUND HOLE SIZE |
|---|---|
| 5 1/2" | 1 3/4"Ø |
| 7 1/4" - 18" | 2"Ø |

NOTES:
1. DO NOT CUT RECTANGULAR HOLES
2. NO HOLES IN CANTILEVER
3. DO NOT CUT, NOTCH OR DRILL HOLES IN BEAMS EXCEPT AS INDICATED IN DIAGRAM & TABLE

## LVL & PSL BEAM HOLES

SCALE: NONE | KPFF K0000 | 18 S6.02

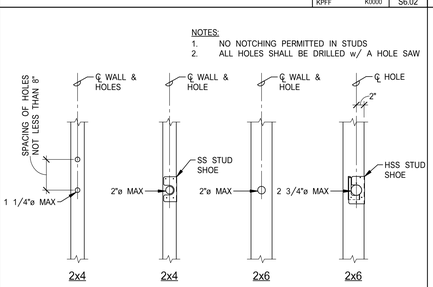



| BEAM DEPTH | MAX ROUND HOLE SIZE |
|---|---|
| 9 1/2" | 3" |
| 11 7/8" | 3 5/8" |
| 14" - 16" | 4 5/8" |

NOTES:
1. DO NOT CUT RECTANGULAR HOLES
2. DO NOT CUT, NOTCH OR DRILL HOLES IN BEAMS EXCEPT AS INDICATED IN DIAGRAM & TABLE

## 1.55E LSL BEAM HOLES

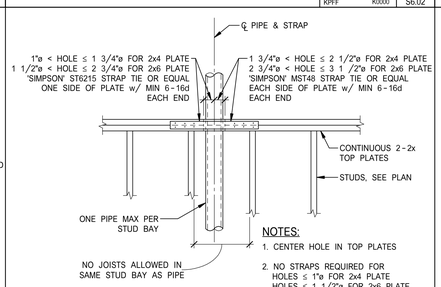
SCALE: NONE | KPFF K0000 | 19 S6.02




ALLOWABLE HOLES IN STUDS

## DETAIL

SCALE: NONE | KPFF K0000 | 20 S6.02




## TOP PLATE STRAP AT PIPE

SCALE: NONE | KPFF K0000 | 21 S6.02

8/18/2017 4:50:26 PM
P:\2017\17001\17\17001177-CAD\CLIENTMODELS\KPFF - STRUCT-R2017.rvt

**OWNER:** SRCS VENETIA VALLEY K-8

**PROJECT NAME:** CLASSROM REPLACEMENT AND NEW MPR BUILDING

**CLIENT ADDRESS:** 177 N San Pedro Rd, San Rafael, CA 94903

**DESIGN DEVELOPMENT SET**

IDENTIFICATION STAMP
DIVISION OF THE STATE ARCHITECT
OFFICE OF REGULATION SERVICES

A#

AC_____ FLS_____ SS_____

DATE _____

**REVISIONS:**

| | DESCRIPTION | DATE |
|---|---|---|
| 1 | | |
| 2 | | |
| 3 | | |
| 4 | | |
| 5 | | |
| 6 | | |
| 7 | | |
| 8 | | |
| 9 | | |
| 10 | | |

**DATE ISSUED:** 08-18-2017

**PROJECT NO:** 1700117.00

**SCALE:** As Noted

**SHEET NUMBER:** S6.02

**SHEET TITLE:**

# TYPICAL WOOD HEADER SCHEDULE & DETAILS

kpff
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San Francisco, CA 94105
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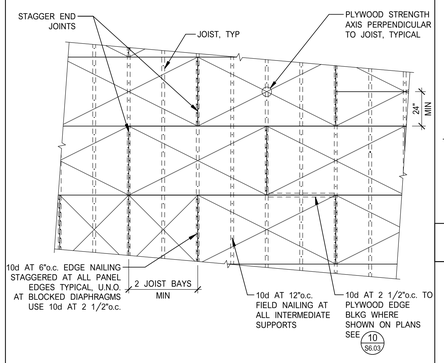
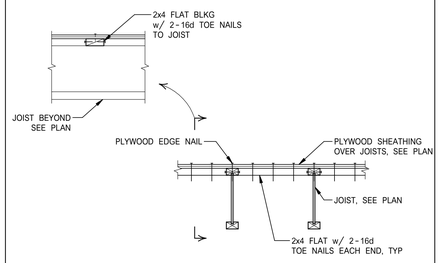



NOTES:
1. GLUE PLYWOOD TO FLOOR FRAMING MEMBERS PRIOR TO NAILING SEE GENERAL NOTES
2. MINIMUM PLYWOOD WIDTH IS 24".
3. PLYWOOD SHALL BE CONTINUOUS OVER 2 JOISTS BAYS, MIN
4. NAILS SHALL BE DRIVEN TIGHT TO TOP OF PLYWOOD SURFACE AND IN NO CASE SHALL NAILS PENETRATE THE TOP PLY MORE THAN COMMONLY EXPECTED WITH HAMMER DRIVEN NAILS. NAILS OVERDRIVEN ARE SUBJECT TO REJECTION AND MAY RESULT IN REMOVAL OF THE PLYWOOD AND LUMBER FRAMING TO WHICH IT IS FASTENED. ACCEPTANCE IS AT THE DESCRESSION OF THE PROJECT ENGINEER AND SPECIAL INSPECTOR.

## PLYWOOD FLOOR SHEATHING

SCALE: NONE | 1 | KPFF K0000 S6.03

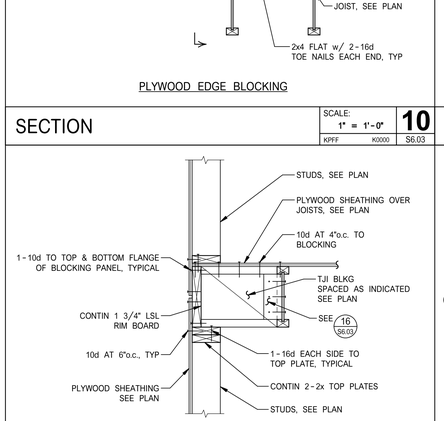



PLYWOOD EDGE BLOCKING

## NOT USED

SCALE: NONE | 6 | KPFF K0000 S6.03

## SECTION



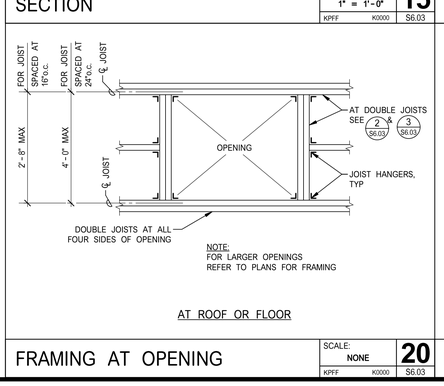

TYPICAL BLOCKING AT WALL

SCALE: 1" = 1'-0" | 15 | KPFF K0000 S6.03

## NOT USED

SCALE: NONE | 17 | KPFF K0000 S6.03

## SECTION




| CEILING JOISTS | SPAN MAX |
|---|---|
| 2x4 AT 24"o.c. | 8'-0" |
| 2x4 AT 16"o.c. | 9'-6" |
| 2x6 AT 24"o.c. | 12'-6" |
| 2x6 AT 16"o.c. | 14'-0" |

NOTES:
1. FOR SPANS GREATER THAN 14'-0", USE HUNG CEILING DETAILS.
2. DO NOT SUPPORT MECHANICAL EQUIPMENT ON CEILING JOISTS, PROVIDE HANGERS TO STRUCTURE ABOVE.

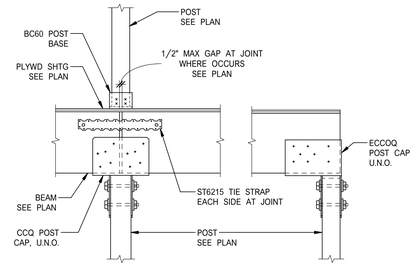
SUSPENDED WOOD CEILING

SCALE: NONE | 22 | KPFF K0000 S6.03

## NOT USED

SCALE: NONE | 4 | KPFF K0000 S6.03

## DETAIL




FILLER BLOCK NAILING

SCALE: NONE | 18 | KPFF K9310 S6.03

## DETAIL




WOOD BEAM TO HSS COLUMN CONNECTION

SCALE: 1" = 1'-0" | 13 | KPFF K0000 S6.03

## HANGER SCHEDULE - SOLID SAWN

SCALE: NONE | 5 | KPFF K8090 S6.03

| | SIMPSON DESIGNATIONS | |
|---|---|---|
| SIZE | TOP FLANGE | FACE MOUNTED |
| 2xd | HUd2d-TF | LUS2d |
| 2-2xd | HUd2d-2TF | LUS2d-2 |
| 4xd | BA4d | LUS4d |
| 6xd | HU6dTF | U6d |
| | | |
| | | |
| | | |

NOTES:
1. INSTALL PER MANUFACTURER'S INSTRUCTIONS. FILL ALL HOLES WITH FASTENERS SPECIFIED FOR MAXIMUM LOADS.
2. 'd' IS MEMBER DEPTH
3. USE SKEWED OR SLOPED HANGERS AS REQUIRED.
4. HANGERS ARE TYPICAL U.N.O. IN DRAWINGS.

## HANGER SCHEDULE - I JOIST

SCALE: NONE | 9 | KPFF K8090 S6.03

| | SIMPSON DESIGNATIONS | |
|---|---|---|
| TYPE | TOP FLANGE | FACE MOUNTED |
| TJI 210 | ITS2.06/d | IUS2.06/d |
| 2-TJI 210 | MIT4.28/d | MIU4.28/d |
| TJI 230 | ITS2.37/d | IUS2.37/d |
| 2-TJI 230 | MIT35/d-2 | MIU4.75/d-2 |
| TJI 360 | ITS2.37/d | IUS2.37/d |
| 2-TJI 360 | MIT35/d-2 | MIU4.75/d-2 |
| TJI 560 | ITS3.56/d | IUS3.56/d |

NOTES:
1. INSTALL PER MANUFACTURER'S INSTRUCTIONS. FILL ALL HOLES WITH FASTENERS SPECIFIED FOR MAXIMUM LOADS.
2. 'd' IS MEMBER DEPTH
3. USE SKEWED OR SLOPED HANGERS AS REQUIRED.
4. HANGERS ARE TYPICAL U.N.O. IN DRAWINGS.

## HANGER SCHEDULE - PSL, LVL, LSL

SCALE: NONE | 14 | KPFF K8090 S6.03

| | SIMPSON DESIGNATIONS | |
|---|---|---|
| TYPE | TOP FLANGE | FACE MOUNTED |
| 1 3/4 x 'd' | MITd | HU11 |
| 3 1/2 x 'd' | HB3.56/d | HGUS412 |
| 5 1/4 x 'd' | HGLTV5.5d | HGUS5.50/12 |
| 7 x 'd' | HGLTV4d-2 | HGUS7.25/12 |
| | | |
| | | |
| | | |
| | | |
| | | |

NOTES:
1. INSTALL PER MANUFACTURER'S INSTRUCTIONS. FILL ALL HOLES WITH FASTENERS SPECIFIED FOR MAXIMUM LOADS.
2. USE SKEWED OR SLOPED HANGERS AS REQUIRED.
3. HANGERS ARE TYPICAL U.N.O. IN DRAWINGS.
4. 'd' IS MEMBER DEPTH

**OWNER:** SRCS VENETIA VALLEY K-8

**PROJECT NAME:** CLASSRROM REPLACEMENT AND NEW MPR BUILDING

**CLIENT ADDRESS:** 177 N San Pedro Rd, San Rafael, CA 94903

**DESIGN DEVELOPMENT SET**

IDENTIFICATION STAMP
DIVISION OF THE STATE ARCHITECT
OFFICE OF REGULATION SERVICES

A#

AC_____ FLS_____ SS_____

DATE _____

**REVISIONS:**

| | DESCRIPTION | DATE |
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**DATE ISSUED:** 08-18-2017
**PROJECT NO:** 1700117.00
**SCALE:** AS NOTED

**SHEET NUMBER:** S6.03

**SHEET TITLE:**

# TYPICAL WOOD FRAMING DETAILS

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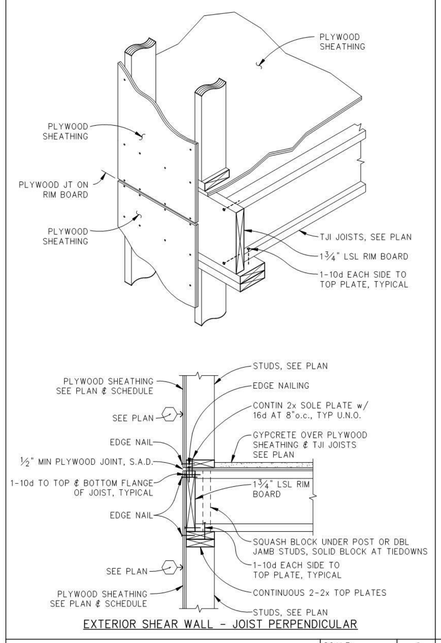
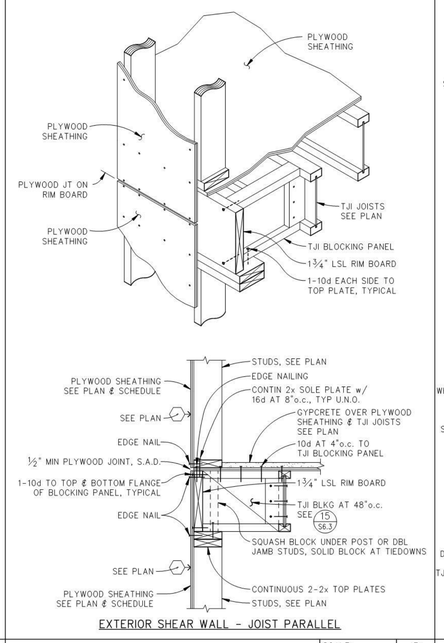


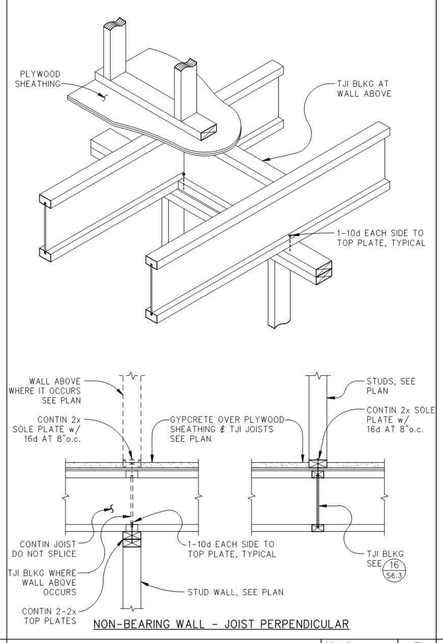

EXTERIOR SHEAR WALL - JOIST PERPENDICULAR

SECTION — SCALE: 1" = 1'-0" — KPFF K0000 — 1 S6.04



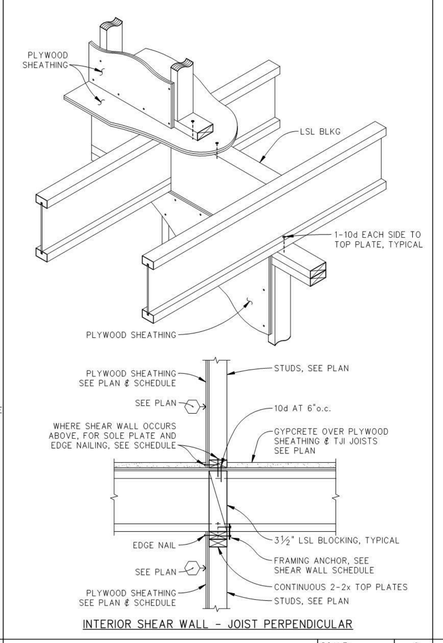

EXTERIOR SHEAR WALL - JOIST PARALLEL

SECTION — SCALE: 1" = 1'-0" — KPFF K0000 — 2 S6.04



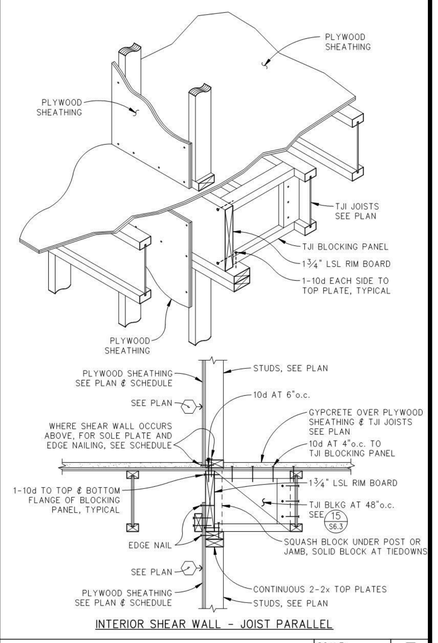

NON-BEARING WALL - JOIST PERPENDICULAR

SECTION — SCALE: 1" = 1'-0" — KPFF K0000 — 3 S6.04



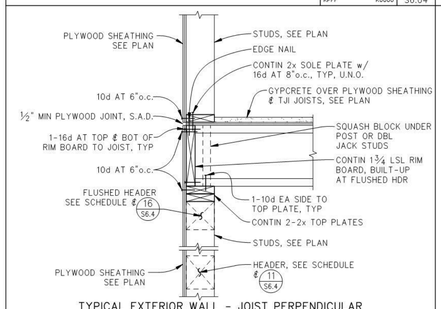

INTERIOR SHEAR WALL - JOIST PERPENDICULAR

SECTION — SCALE: 1" = 1'-0" — KPFF K0000 — 4 S6.04



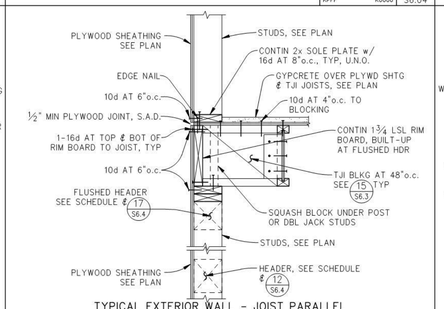

INTERIOR SHEAR WALL - JOIST PARALLEL

SECTION — SCALE: 1" = 1'-0" — KPFF K0000 — 5 S6.04



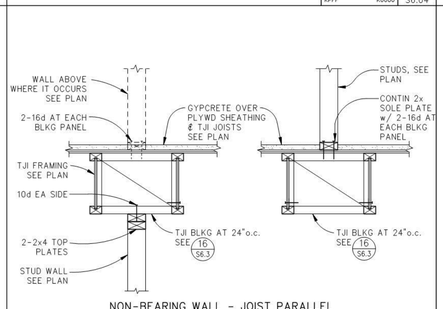

TYPICAL EXTERIOR WALL - JOIST PERPENDICULAR

SECTION — SCALE: 1" = 1'-0" — KPFF K0000 — 6 S6.04



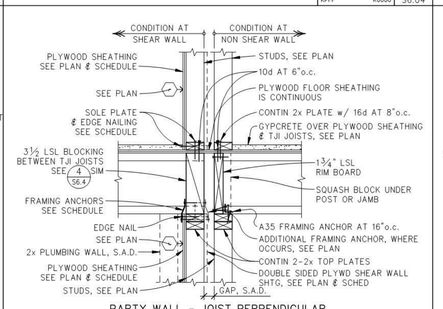

TYPICAL EXTERIOR WALL - JOIST PARALLEL

SECTION — SCALE: 1" = 1'-0" — KPFF K0000 — 7 S6.04



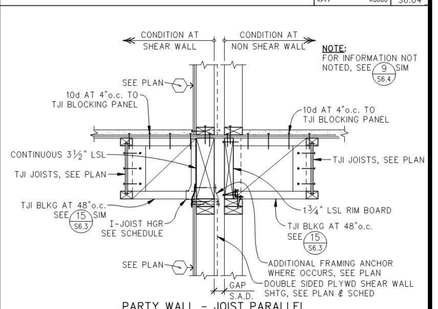

NON-BEARING WALL - JOIST PARALLEL

SECTION — SCALE: 1" = 1'-0" — KPFF K0000 — 8 S6.04



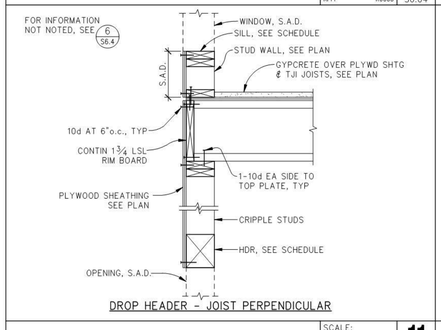

PARTY WALL - JOIST PERPENDICULAR

SECTION — SCALE: 1" = 1'-0" — KPFF K0000 — 9 S6.04



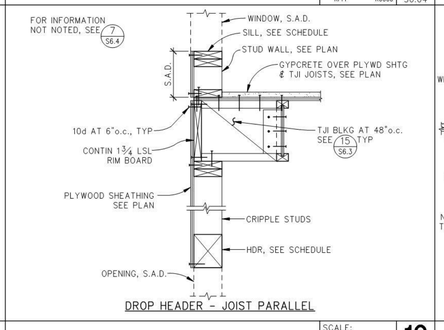

PARTY WALL - JOIST PARALLEL

SECTION — SCALE: 1" = 1'-0" — KPFF K0000 — 10 S6.04



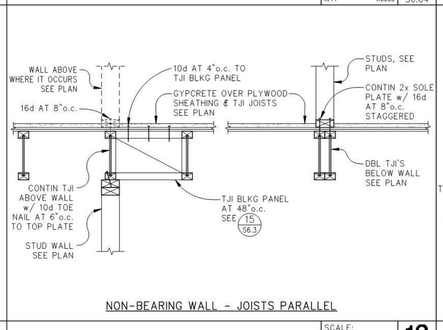

DROP HEADER - JOIST PERPENDICULAR

SECTION — SCALE: 1" = 1'-0" — KPFF K0000 — 11 S6.04



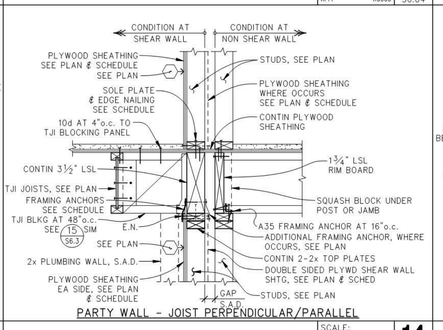

DROP HEADER - JOIST PARALLEL

SECTION — SCALE: 1" = 1'-0" — KPFF K0000 — 12 S6.04



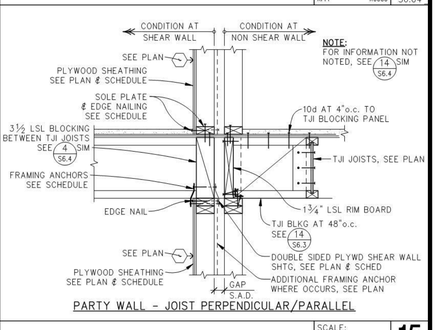

NON-BEARING WALL - JOISTS PARALLEL

SECTION — SCALE: 1"=1'-0" — KPFF K0000 — 13 S6.04



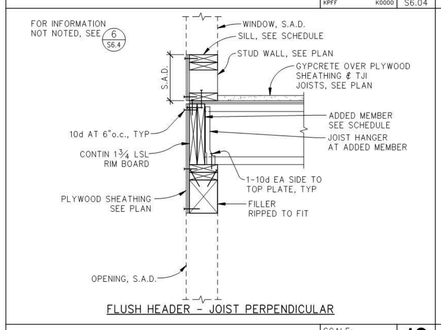

PARTY WALL - JOIST PERPENDICULAR/PARALLEL

SECTION — SCALE: 1" = 1'-0" — KPFF K0000 — 14 S6.04



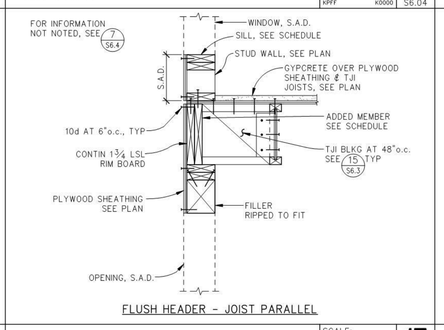

PARTY WALL - JOIST PERPENDICULAR/PARALLEL

SECTION — SCALE: 1" = 1'-0" — KPFF K0000 — 15 S6.04



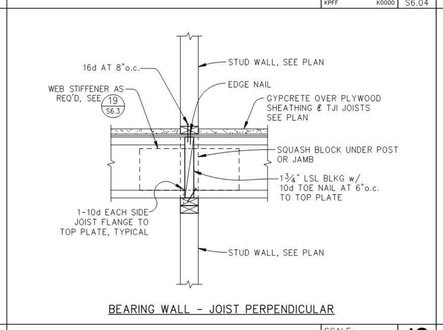

FLUSH HEADER - JOIST PERPENDICULAR

SECTION — SCALE: 1" = 1'-0" — KPFF K0000 — 16 S6.04



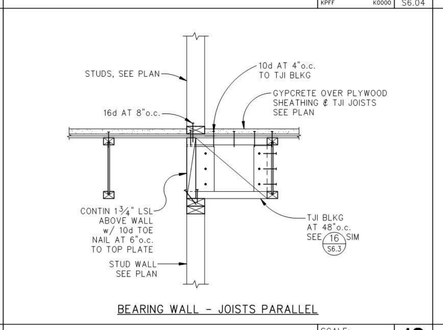

FLUSH HEADER - JOIST PARALLEL

SECTION — SCALE: 1" = 1'-0" — KPFF K0000 — 17 S6.04



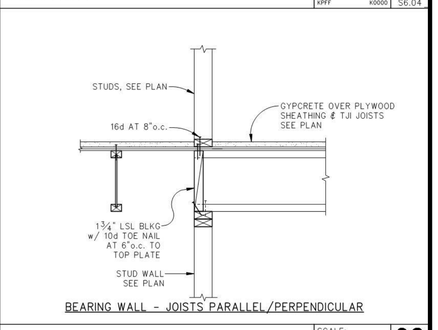

BEARING WALL - JOIST PERPENDICULAR

SECTION — SCALE: 1" = 1'-0" — KPFF K0000 — 18 S6.04




BEARING WALL - JOISTS PARALLEL

SECTION — SCALE: 1" = 1'-0" — KPFF K0000 — 19 S6.04




BEARING WALL - JOISTS PARALLEL/PERPENDICULAR

SECTION — SCALE: 1" = 1'-0" — KPFF K0000 — 20 S6.04

**OWNER:** SRCS VENETIA VALLEY K-8

**PROJECT NAME:** CLASSRROM REPLACEMENT AND NEW MPR BUILDING

**CLIENT ADDRESS:** 177 N San Pedro Rd, San Rafael, CA 94903

**DESIGN DEVELOPMENT SET**

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**DATE ISSUED:** 08-18-2017
**PROJECT NO:** 1700117.00
**SCALE:** AS NOTED

**SHEET NUMBER:** S6.04

**SHEET TITLE:**

# TYPICAL WOOD WALL/FLOOR FRAMING DETAILS

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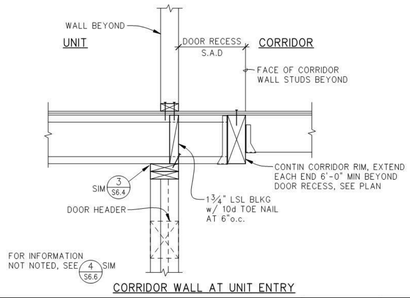
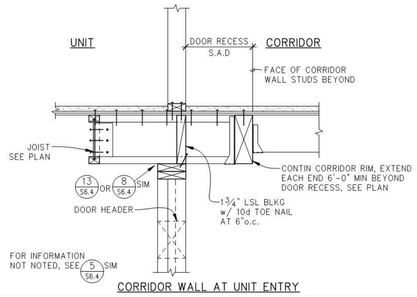
SCALE: NONE | 1 | KPFF K0000 S6.05




CORRIDOR WALL AT UNIT ENTRY

SECTION

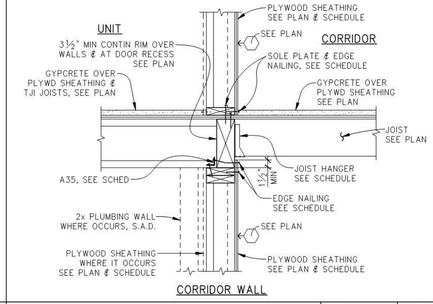
SCALE: 1" = 1'-0" | 2 | KPFF K0000 S6.05




CORRIDOR WALL AT UNIT ENTRY

SECTION

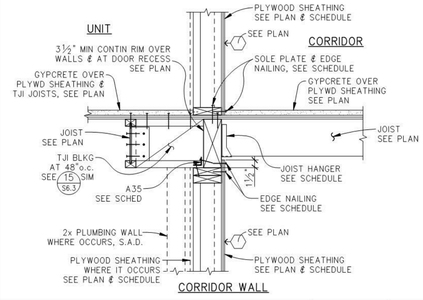
SCALE: 1" = 1'-0" | 3 | KPFF K0000 S6.05




CORRIDOR WALL

SECTION

SCALE: 1" = 1'-0" | 4 | KPFF K0000 S6.05




CORRIDOR WALL

SECTION

SCALE: 1" = 1'-0" | 5 | KPFF K0000 S6.05

NOT USED

SCALE: NONE | 6 | KPFF K0000 S6.05

NOT USED

SCALE: NONE | 7 | KPFF K0000 S6.05

NOT USED

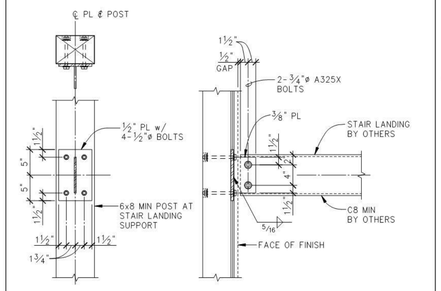
SCALE: NONE | 8 | KPFF K0000 S6.05

NOT USED

SCALE: NONE | 9 | KPFF K0000 S6.05

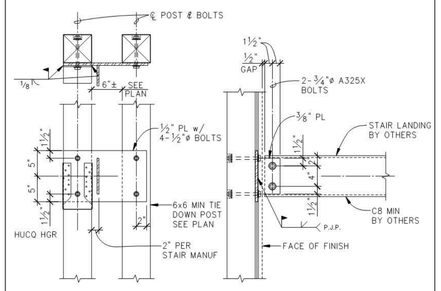
NOT USED

SCALE: NONE | 10 | KPFF K0000 S6.05




DETAIL

SCALE: 1" = 1'-0" | 11 | KPFF K0000 S6.05




DETAIL

SCALE: 1" = 1'-0" | 12 | KPFF K0000 S6.05

NOT USED

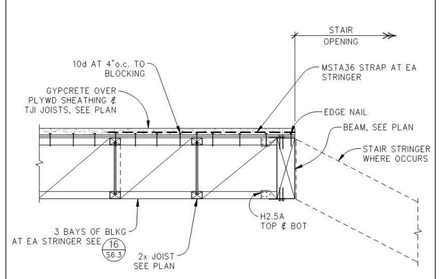
SCALE: NONE | 13 | KPFF K0000 S6.05

NOT USED

SCALE: NONE | 14 | KPFF K0000 S6.05

NOT USED

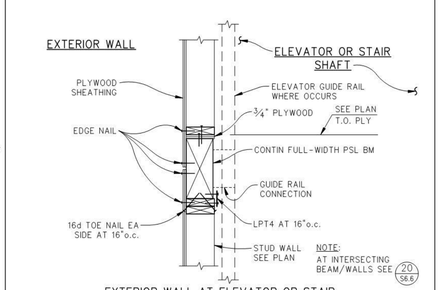
SCALE: NONE | 15 | KPFF K0000 S6.05




BEAM AT STAIR OPENINGS - JOIST PARALLEL

SECTION

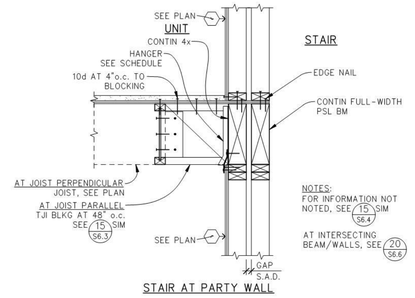
SCALE: 1" = 1'-0" | 16 | KPFF K0000 S6.05




EXTERIOR WALL AT ELEVATOR OR STAIR

SECTION

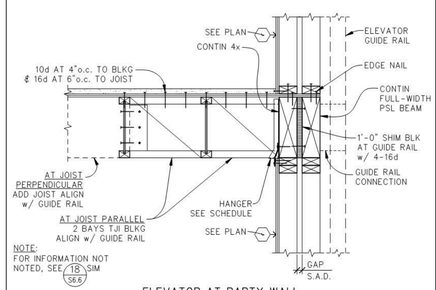
SCALE: 1" = 1'-0" | 17 | KPFF K0000 S6.05




STAIR AT PARTY WALL

SECTION

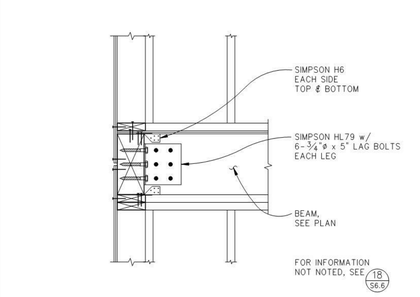
SCALE: 1" = 1'-0" | 18 | KPFF K0000 S6.05




ELEVATOR AT PARTY WALL

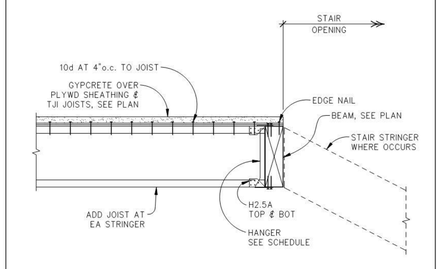
SECTION

SCALE: 1" = 1'-0" | 19 | KPFF K0000 S6.05




SECTION

SCALE: 1" = 1'-0" | 20 | KPFF K0000 S6.05



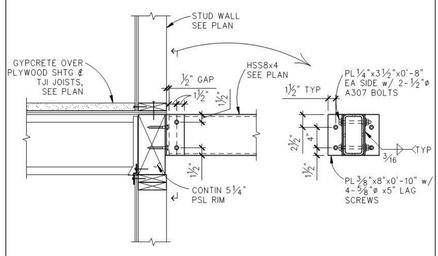

BEAM AT STAIR OPENINGS - JOIST PERPENDICULAR

SECTION

SCALE: 1" = 1'-0" | 21 | KPFF K0000 S6.05

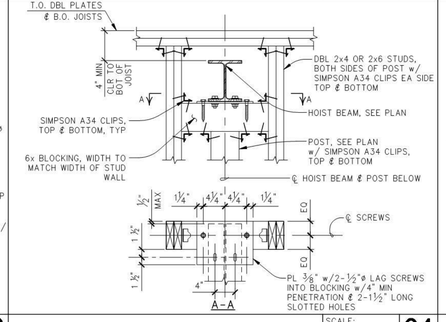
NOT USED

SCALE: NONE | 22 | KPFF K0000 S6.05



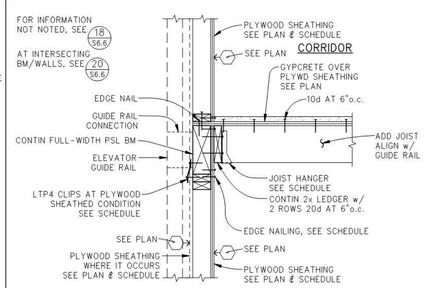

SECTION

SCALE: 1" = 1'-0" | 23 | KPFF K0000 S6.05




DETAIL

SCALE: 1" = 1'-0" | 24 | KPFF K0000 S6.05




ELEVATOR AT CORRIDOR WALL

SECTION

SCALE: 1" = 1'-0" | 25 | KPFF K0000 S6.05

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**OWNER:** SRCS VENETIA VALLEY K-8

**PROJECT NAME:** CLASSRROM REPLACEMENT AND NEW MPR BUILDING

**CLIENT ADDRESS:** 177 N San Pedro Rd, San Rafael, CA 94903

**DESIGN DEVELOPMENT SET**

IDENTIFICATION STAMP
DIVISION OF THE STATE ARCHITECT
OFFICE OF REGULATION SERVICES

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DATE _____

**REVISIONS:**

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**DATE ISSUED:** 08-18-2017

**PROJECT NO:** 1700117.00

**SCALE:** AS NOTED

**SHEET NUMBER:** S6.05

**SHEET TITLE:**

# TYPICAL WOOD WALL/FLOOR FRAMING DETAILS


kpff

45 Fremont Street, 28th floor
San Francisco, CA 94105
415.989.1004 | kpff.com

**SEOR Contact:**
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**Day-to-Day Contact:**
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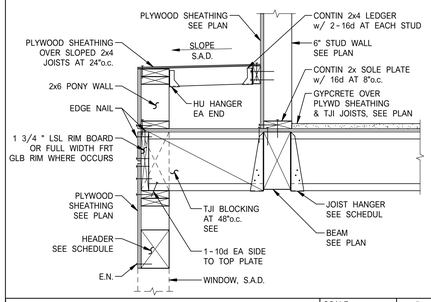


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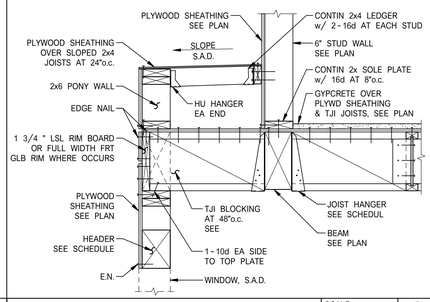


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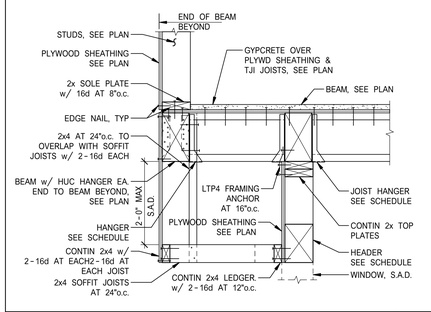
NOT USED — SCALE: NONE — KPFF K0000 — 3 S6.06

NOT USED — SCALE: NONE — KPFF K0000 — 4 S6.06

NOT USED — SCALE: NONE — KPFF K0000 — 5 S6.06

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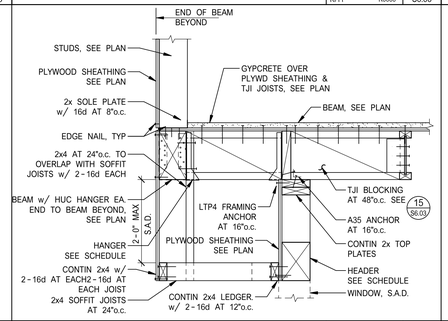


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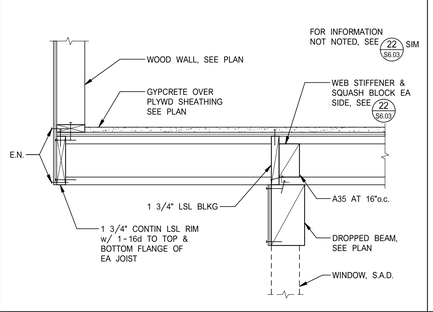


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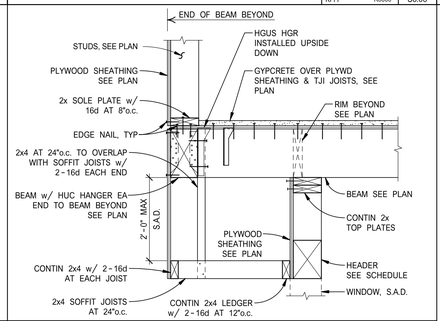


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**OWNER:** SRCS VENETIA VALLEY K-8

**PROJECT NAME:** CLASSRROM REPLACEMENT AND NEW MPR BUILDING

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**DATE ISSUED:** 08-18-2017

**PROJECT NO:** 1700117.00

**SCALE:** AS NOTED

**SHEET NUMBER:** S6.06

**SHEET TITLE:**

# WOOD WALL/FLOOR FRAMING DETAILS

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david.rossi@kpff.com

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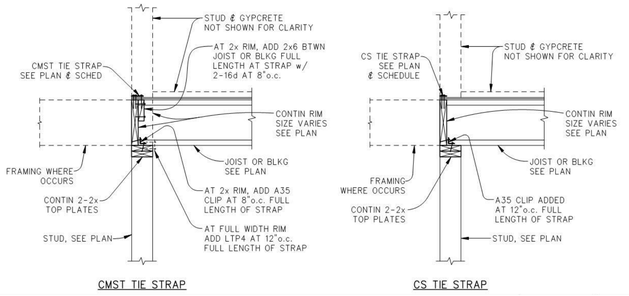
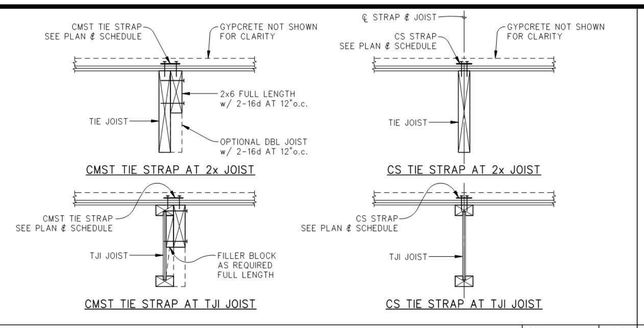


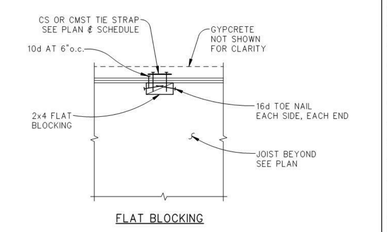

## DETAIL - RIM

SCALE: 3/4" = 1'-0" | KPFF | K0000 | 1 | S6.07




## SECTION - TIE JOIST

SCALE: 1 1/2" = 1'-0" | KPFF | K0000 | 2 | S6.07




## DETAIL

SCALE: 1 1/2" = 1'-0" | KPFF | K0000 | 3 | S6.07

| MARK | TIE | L1 | NS1 | L2 | NS2 | DETAIL | REMARKS |
|---|---|---|---|---|---|---|---|
| T1 | CS14 | 36" | 10d | 36" | 10d | 8/S6.10 | |
| T2 | CS14 | 36" | 10d | 6'-0" | 10d AT 2"o.c. | 9/S6.10 | |
| T3 | CS14 | 6'-0" | 10d AT 2"o.c. | 6'-0" | 10d AT 2"o.c. | 10/S6.10 | |
| T4 | CS14 | 36" | 10d | 6'-0" | 10d AT 2"o.c. | 11/S6.10 | |
| T5 | CS14 | 36" | 10d | 36" | 10d | 12/S6.10 | |
| T6 | CS14 | 36" | 10d | 36" | 10d | 13/S6.10 | |
| T7 | CS14 | 36" | 10d | 6'-0" | 10d AT 2"o.c. | 14/S6.10 | |
| T8 | CS14 | 6'-0" | 10d AT 2"o.c. | 6'-0" | 10d AT 2"o.c. | 15/S6.10 | |
| T9 | CS14 | 36" | 10d | 6'-0" | 10d AT 2"o.c. | 16/S6.10 | |
| T10 | CS14 | 36" | 10d | 36" | 10d | 17/S6.10 | |
| T11 | CMST16 | 5'-0" | 16d | 5'-0" | 16d | 18/S6.10 | |
| T12 | CMST16 | 5'-0" | 16d | 8'-0" | 16d AT 1½"o.c. | 18/S6.10 | |
| T13 | CMST16 | 8'-0" | 16d AT 1½"o.c. | 5'-0" | 16d | 19/S6.10 | |
| T14 | CMST16 | 8'-0" | 16d AT 1½"o.c. | 8'-0" | 16d AT 1½"o.c. | 19/S6.10 | |
| T15 | CMST16 | 8'-0" | 16d AT 1½"o.c. | 8'-0" | 16d AT 1½"o.c. | 20/S6.10 | |
| T16 | CMST16 | 5'-0" | 16d | 8'-0" | 16d AT 1½"o.c. | 21/S6.10 | |
| T17 | CMST16 | 8'-0" | 16d AT 1½"o.c. | 5'-0" | 16d | 21/S6.10 | |
| T18 | CMST16 | 5'-0" | 16d | 5'-0" | 16d | 22/S6.10 | |
| T19 | CMST16 | 5'-0" | 16d | 5'-0" | 16d | 8/S6.10 | |
| T20 | CMST16 | 5'-0" | 16d | 8'-0" | 16d AT 1½"o.c. | 9/S6.10 | |
| T21 | CMST16 | 8'-0" | 16d AT 1½"o.c. | 8'-0" | 16d AT 1½"o.c. | 10/S6.10 | |
| T22 | CMST16 | 5'-0" | 16d | 8'-0" | 16d AT 1½"o.c. | 11/S6.10 | |
| T23 | CMST16 | 5'-0" | 16d | 5'-0" | 16d | 12/S6.10 | |
| T24 | CMST16 | 5'-0" | 16d | 5'-0" | 16d | 13/S6.10 | |
| T25 | CMST16 | 5'-0" | 16d | 8'-0" | 16d AT 1½"o.c. | 14/S6.10 | |
| T26 | CMST16 | 8'-0" | 16d AT 1½"o.c. | 8'-0" | 16d AT 1½"o.c. | 15/S6.10 | |
| T27 | CMST16 | 5'-0" | 16d | 5'-0" | 16d | 16/S6.10 | |
| T28 | CMST16 | 5'-0" | 16d | 5'-0" | 16d | 17/S6.10 | |

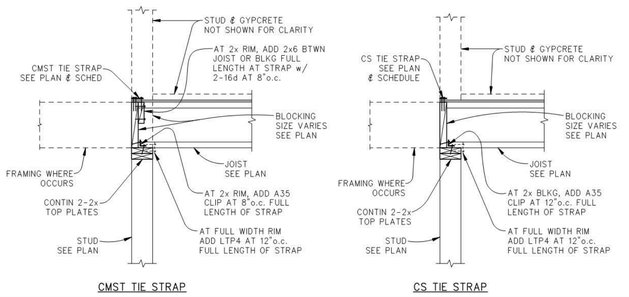
NOTE:
1. IN TJI'S, LSL'S, & PSL'S, WHERE NAIL SPACING IS NOT INDICATED, SPACE NAILS AT 4"o.c. MINIMUM IN A ROW. ROWS ARE TO BE OFFSET BY 1/2" AND STAGGERED. SEE SKETCH BELOW IN ALL OTHER MEMBERS, WHERE NAIL SPACING IS NOT INDICATED, FILL ALL HOLES.

● INDICATES FILLED HOLE
○ INDICATES EMPTY HOLE

AT CS STRAP | AT CMSTC STRAP

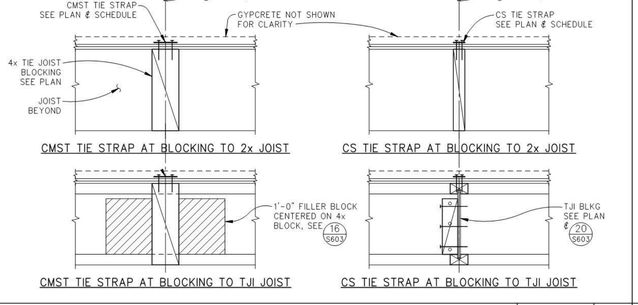
## TIE SCHEDULE

SCALE: NONE | KPFF | K0000 | 4 | S6.07



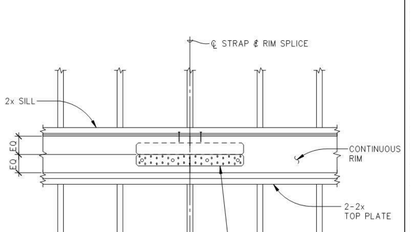

## DETAIL - RIM

SCALE: 3/4" = 1'-0" | KPFF | K0000 | 5 | S6.07



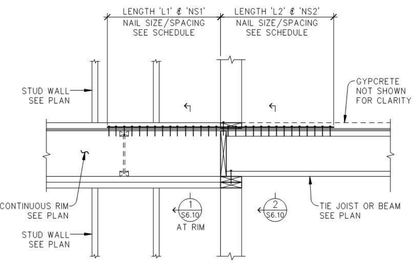

## SECTION - TIE JOIST BLOCKING

SCALE: 1 1/2" = 1'-0" | KPFF | K0000 | 6 | S6.07

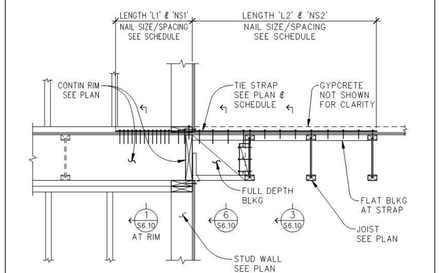



## DETAIL

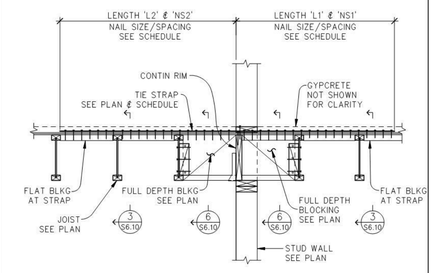
SCALE: 3/4" = 1'-0" | KPFF | K0000 | 7 | S6.07




SCALE: 3/4" = 1'-0" | KPFF | K0000 | 8 | S6.07




SCALE: 3/4" = 1'-0" | KPFF | K0000 | 9 | S6.07

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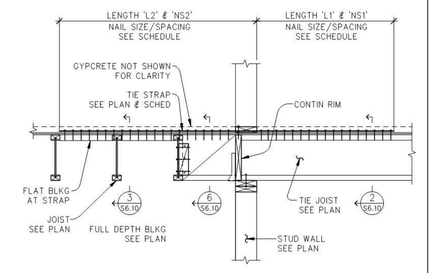
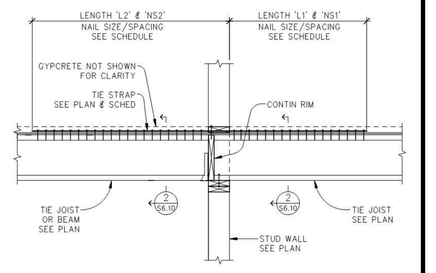



SCALE: NONE | KPFF | K0000 | 11 | S6.07

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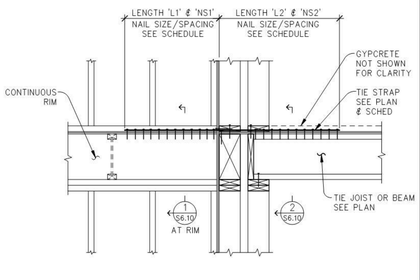
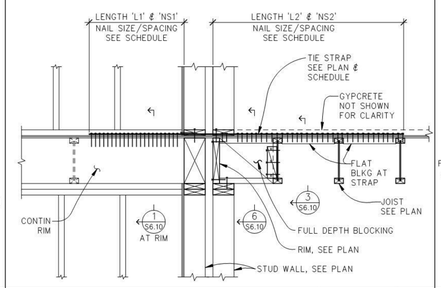
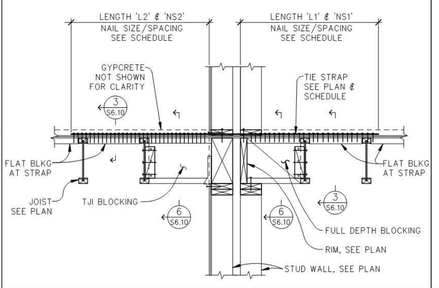



SCALE: 3/4" = 1'-0" | KPFF | K0000 | 13 | S6.07




SCALE: 3/4" = 1'-0" | KPFF | K0000 | 14 | S6.07

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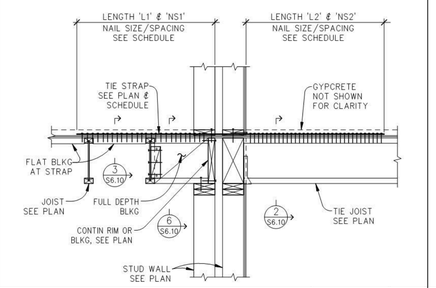


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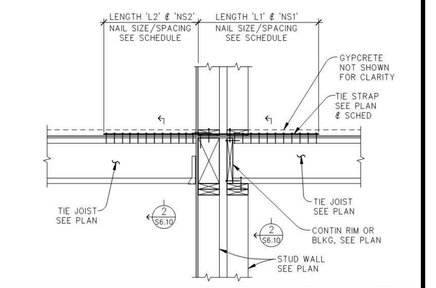


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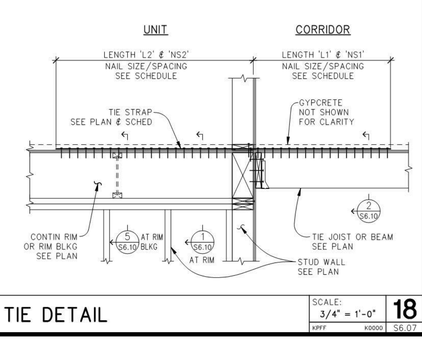


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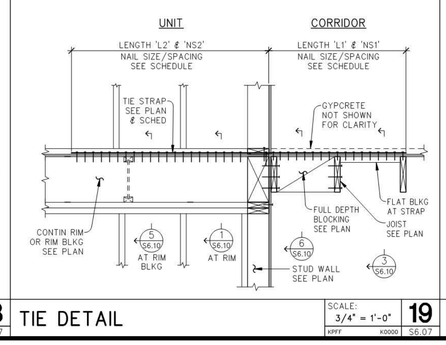
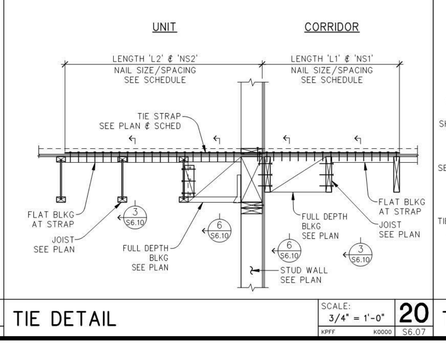
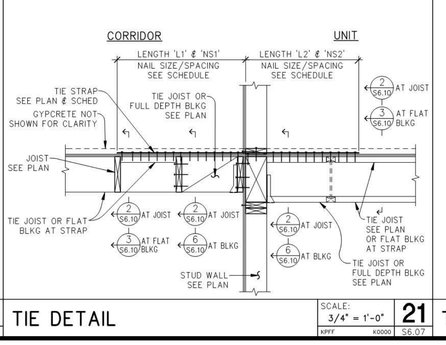


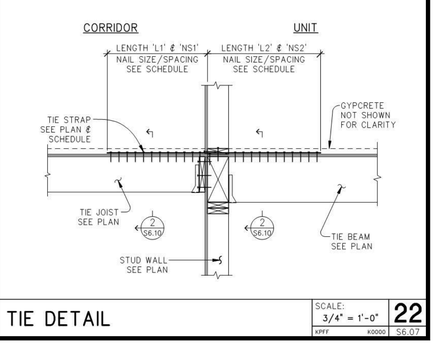

SCALE: 3/4" = 1'-0" | KPFF | K0000 | 19 | S6.07




SCALE: 3/4" = 1'-0" | KPFF | K0000 | 20 | S6.07




SCALE: 3/4" = 1'-0" | KPFF | K0000 | 21 | S6.07




SCALE: 3/4" = 1'-0" | KPFF | K0000 | 22 | S6.07

**OWNER:** SRCS VENETIA VALLEY K-8

**PROJECT NAME:** CLASSRROM REPLACEMENT AND NEW MPR BUILDING

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# TIE SCHEDULE AND DETAILS

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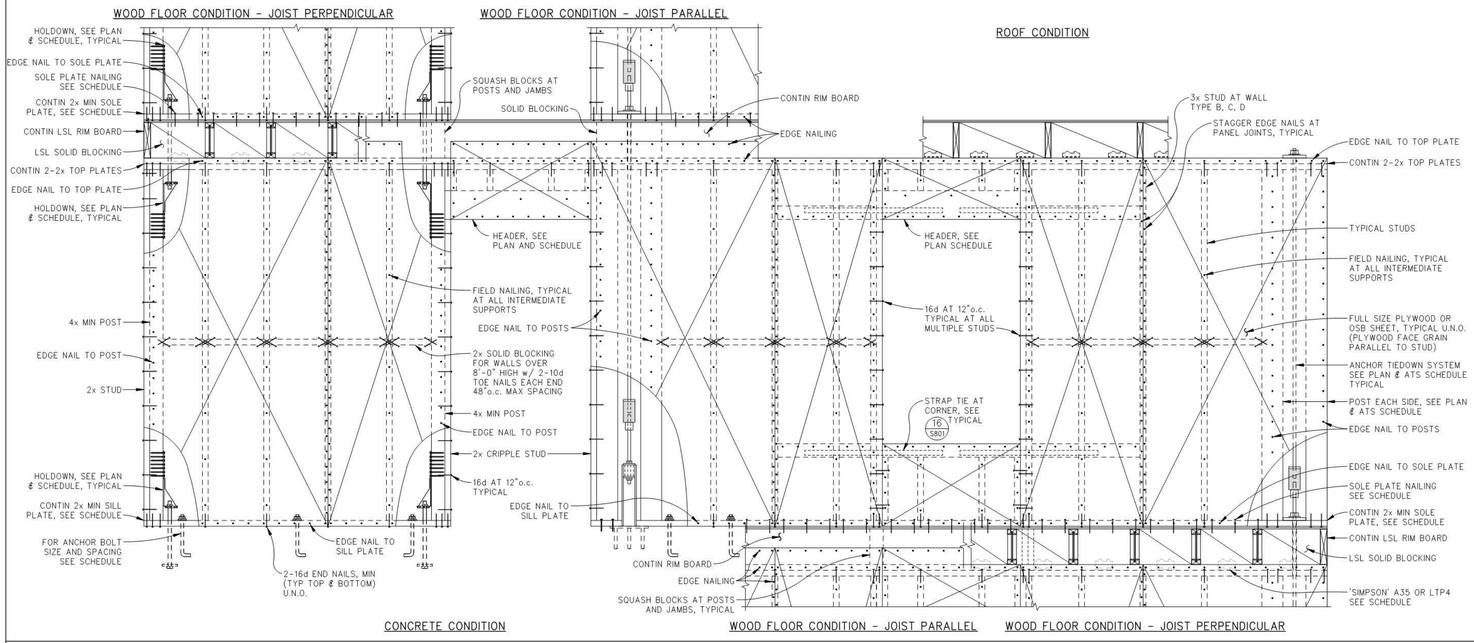



NOTES:

1. 24" MINIMUM PLYWOOD OR OSB SHEET WIDTH
2. 12" MINIMUM PLYWOOD OR OSB SHEET HEIGHT
3. EDGE NAIL ALL PANEL EDGES
4. FOR ADDITIONAL WALL INFORMATION, SEE 2 S601

| TYPE | OSB/PLY[4] SHEATHING | EDGE[6] NAILING | JOISTS/BLOCKS[5] TO TOP PLATE | SOLE PLATE TO[7] JOIST OR BLKG | | | SILL BOLTS TO CONCRETE | ALLOW SHEAR |
|---|---|---|---|---|---|---|---|---|
| | | COMMON NAILS | SIMPSON FRAMING ANCHOR | 16d COMMON NAILS | 20d COMMON NAILS | SDS ¼x4½ | | PLF |
| A | ½" CDX | 10d AT 6" | A35 AT 16" OR LTP4 AT 16" | 16d AT 6"[8] | 20d AT 8"[8] | ½"ø AT 12"[8] STAGGERED | ⅝"ø AT 48" | 310 |
| B[5] | ½" CDX | 10d AT 4" | A35 AT 16" OR LTP4 AT 16" | 16d AT 4"[8] | 20d AT 6"[8] | ½"ø AT 8"[8] STAGGERED | ⅝"ø AT 32" | 460 |
| C[5] | ½" CDX | 10d AT 3" | A35 AT 12" OR LTP4 AT 12" | 16d AT 3"[8] STAGGERED | 20d AT 4"[8] | ½"ø AT 6"[8] STAGGERED | ⅝"ø AT 24" | 600 |
| D[5] | ½" CDX | 10d AT 2" | LTP4 AT 8" | 16d AT 2"[8] STAGGERED | 20d AT 3"[8] STAGGERED | 2-½"ø AT 8"[9] STAGGERED | ⅝"ø AT 16" | 770 |
| E[5] | ½" STRUCT-I | 10d AT 2" | LTP4 AT 8" | 16d AT 2"[8] STAGGERED | 20d AT 3"[8] STAGGERED | 2-½"ø AT 8"[10] STAGGERED | ⅝"ø AT 16" | 870 |
| F[5] | ½" CDX BOTH SIDES | 10d AT 4" | LTP4 AT 8" | 16d AT 2"[8] STAGGERED | 20d AT 3"[8] STAGGERED | 2-½"ø AT 8"[9] STAGGERED | ⅝"ø AT 16" | 920 |
| G[5] | ½" CDX BOTH SIDES | 10d AT 3" | LTP4 AT 12"o.c. BOTH SIDES | 2-16d AT 3"[8] STAGGERED | 20d AT 2"[8] STAGGERED | 2-½"ø AT 6"[10] STAGGERED | ⅝"ø AT 12" | 1200 |
| H[5] | ½" CDX BOTH SIDES | 10d AT 2" | LTP4 AT 8"o.c. BOTH SIDES | 2-16d AT 2"[8] STAGGERED | 2-20d AT 3"[8] STAGGERED | 3-½"ø AT 6"[10] STAGGERED | ⅝"ø AT 8" | 1540 |
| J[5] | ½" STRUCT-I BOTH SIDES | 10d AT 2" | LTP4 AT 8"o.c. BOTH SIDES | 2-16d AT 2"[8] STAGGERED | 2-20d AT 3"[8] STAGGERED | 3-½"ø AT 6"[10] STAGGERED | ⅝"ø AT 8" | 1740 |

NOTES:

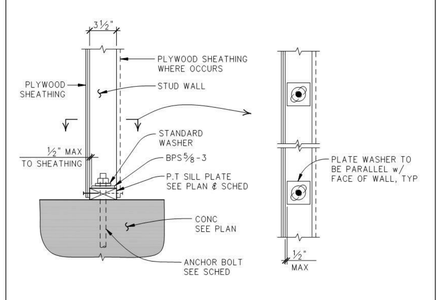
1) FOR SHEAR WALL ELEVATION, SEE 1/S801.
2) AT ALL ANCHOR BOLT LOCATIONS, PROVIDE SIMPSON BP⅝ BEARING PLATES, SEE 3 S801 & 4 S801
3) ALL FASTENERS IN CONTACT WITH PRESSURE TREATED SILL PLATES SHALL BE GALVANIZED.
4) PROVIDE ⅜" MINIMUM EDGE DISTANCE AT EDGE NAILING
5) FRAMING MEMBERS RECEIVING EDGE NAILING FROM ABUTTING PANELS SHALL NOT BE LESS THAN A SINGLE 3" NOMINAL MEMBER. NAILS SHALL BE STAGGERED
6) SPACE NAILS AT 12"o.c. ALONG ALL INTERMEDIATE FRAMING MEMBERS.
7) PREDRILL NAIL & SCREW HOLES TO PREVENT SPLITTING OF FRAMING AS REQUIRED AND STAGGER FASTENERS.
8) USE 1¾" MINIMUM LSL RIM/BLOCKING, FOR NAIL LAYOUT, SEE 9 S802 FOR SCREW LAYOUT, SEE 10 S802
9) USE 3½" MINIMUM LSL RIM/BLOCKING, FOR NAIL LAYOUT, SEE 9 S802 FOR SCREW LAYOUT, SEE 10 S802
10) USE 5¼" MINIMUM PSL RIM/BLOCKING, FOR SCREW LAYOUT, SEE 10 S802 ONLY APPLIES TO 6" WALLS.

## TYPICAL SHEAR WALL FRAMING ELEVATION

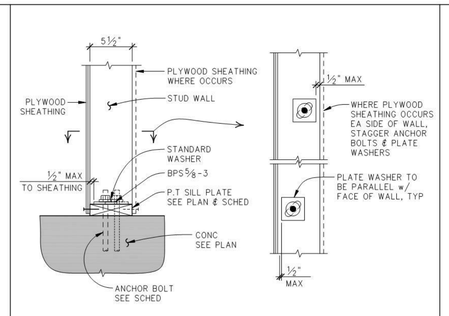
SCALE: NONE | 1 | KPFF K0000 S8.01

## WOOD SHEAR WALL SCHEDULE

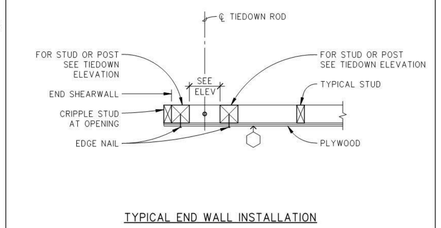
SCALE: NONE | 2 | KPFF K0000 S8.01




DETAIL | SCALE: 1 1/2" = 1'-0" | 3 | KPFF K0000 S8.01

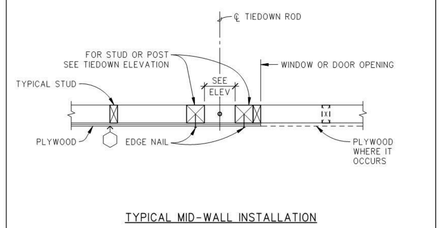



DETAIL | SCALE: 1 1/2" = 1'-0" | 4 | KPFF K0000 S8.01



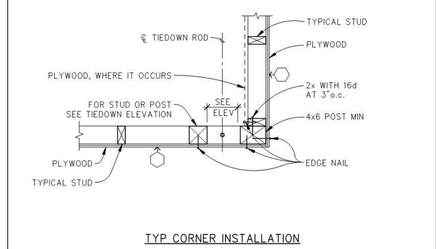

TYPICAL END WALL INSTALLATION

PLAN DETAIL | SCALE: NONE | 5 | KPFF K2661 S8.01



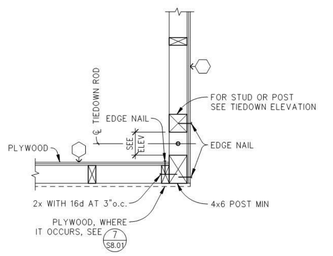

TYPICAL MID-WALL INSTALLATION

PLAN DETAIL | SCALE: NONE | 6 | KPFF K2662 S8.01



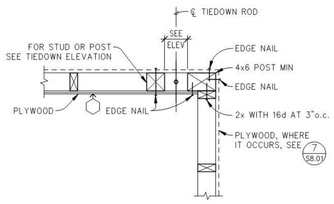

TYP CORNER INSTALLATION

PLAN DETAIL | SCALE: NONE | 7 | KPFF K2657 S8.01



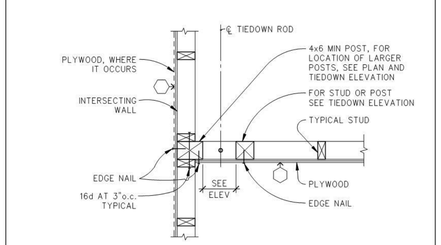

TYPICAL CORNER INSTALLATION

PLAN DETAIL | SCALE: NONE | 8 | KPFF K2658 S8.01



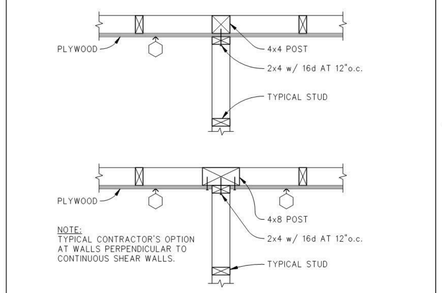

TYPICAL CORNER INSTALLATION

PLAN DETAIL | SCALE: NONE | 9 | KPFF K2659 S8.01

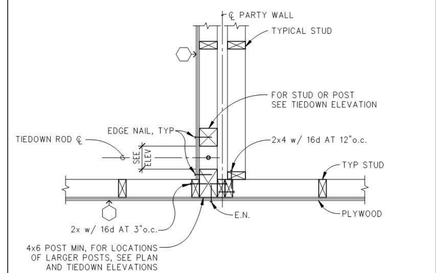



PERPENDICULAR-TO-WALL INSTALLATION

PLAN DETAIL | SCALE: NONE | 10 | KPFF K2651 S8.01

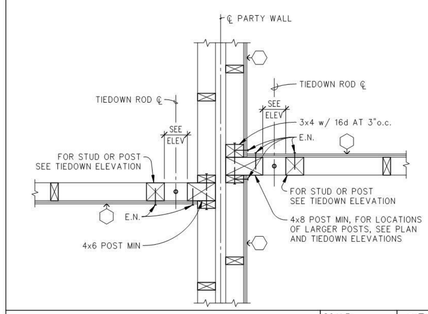



PLAN DETAIL | SCALE: NONE | 11 | KPFF K2663 S8.01

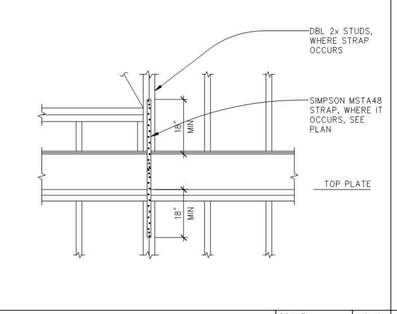



PARTY WALL PERPENDICULAR TO WALL INSTALLATION

PLAN DETAIL | SCALE: NONE | 12 | KPFF K2653 S8.01

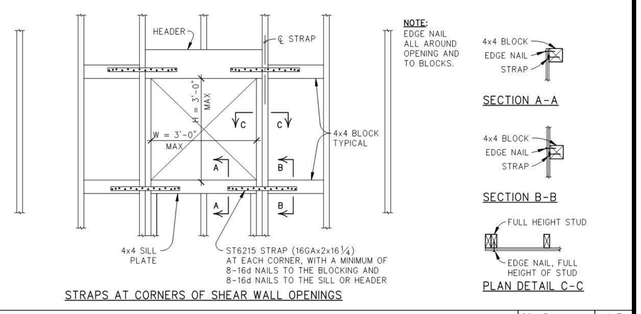



PLAN DETAIL | SCALE: NONE | 13 | KPFF K2655 S8.01




DETAIL | SCALE: 3/4" = 1'-0" | 14 | KPFF K0000 S8.01

NOT USED | SCALE: NONE | 15 | KPFF K0000 S8.01




STRAPS AT CORNERS OF SHEAR WALL OPENINGS

DETAIL | SCALE: 3/4" = 1'-0" | 16 | KPFF K0000 S8.01

**OWNER:** SRCS VENETIA VALLEY K-8

**PROJECT NAME:** CLASSROM REPLACEMENT AND NEW MPR BUILDING

**CLIENT ADDRESS:** 177 N San Pedro Rd, San Rafael, CA 94903

**DESIGN DEVELOPMENT SET**

IDENTIFICATION STAMP
DIVISION OF THE STATE ARCHITECT
OFFICE OF REGULATION SERVICES

A#

AC_____ FLS_____ SS_____

DATE _____

**REVISIONS:**

| | DESCRIPTION | DATE |
|---|---|---|
| | | |

**DATE ISSUED:** 08-18-2017
**PROJECT NO:** 1700117.00
**SCALE:** AS NOTED

**SHEET NUMBER:** S8.01

**SHEET TITLE:**

# WOOD STUD SHEAR WALL SCHEDULE AND DETAILS

kpff
45 Fremont Street, 28th floor
San Francisco, CA 94105
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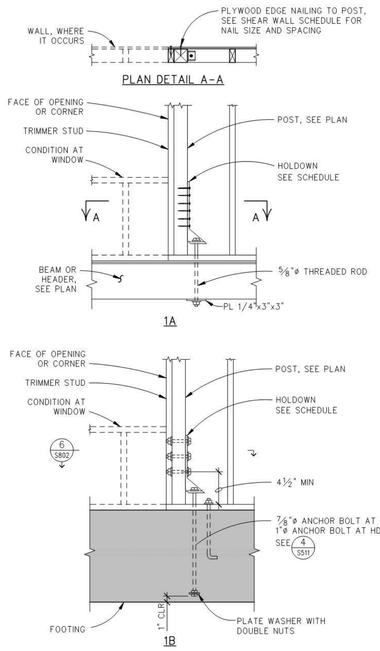
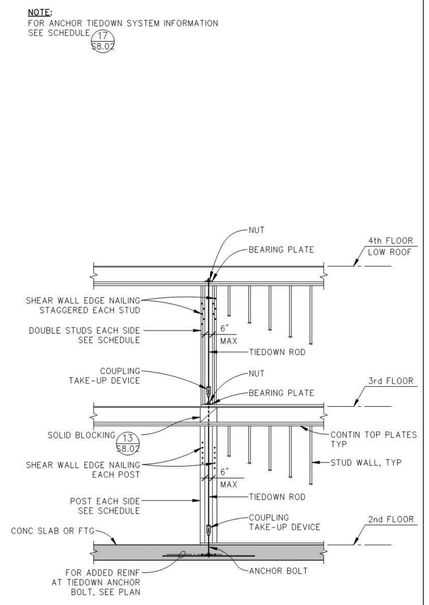
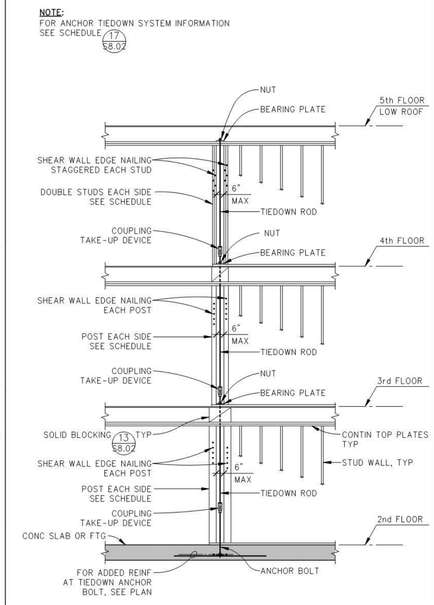



DETAIL — SCALE: 3/4" = 1'-0" — 1A 1B — S8.02

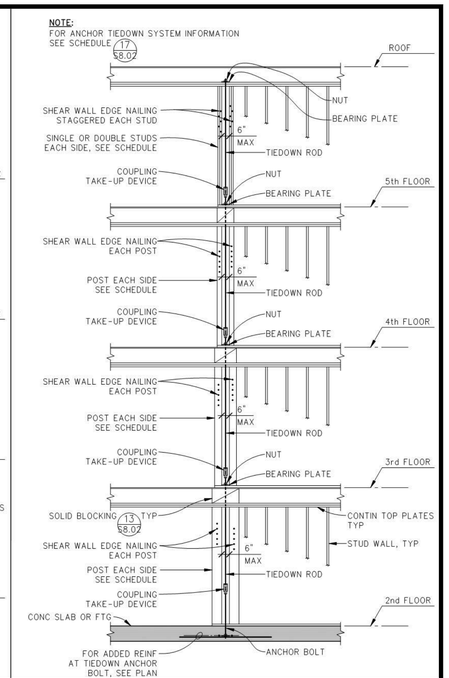
NOT USED — SCALE: NONE — 2 — S8.02



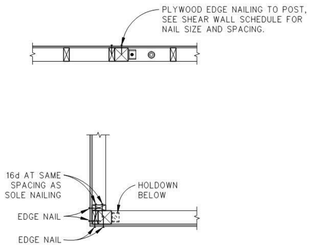

TIEDOWN ELEVATION — SCALE: NONE — 3 — S8.02




TIEDOWN ELEVATION — SCALE: NONE — 4 — S8.02



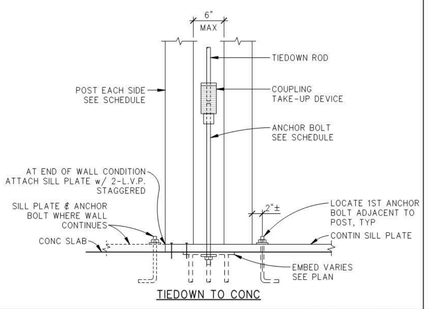

TIEDOWN ELEVATION — SCALE: NONE — 5 — S8.02



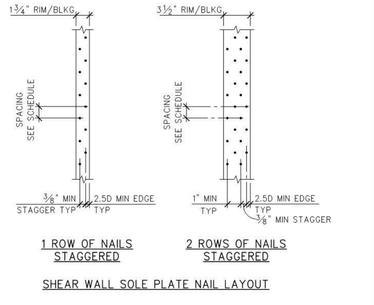

PLAN DETAIL — SCALE: NONE — 6 — S8.02

| MARK | SIMPSON HOLDOWN TYPE | DETAIL |
|---|---|---|
| HD-1 | HDU2-SDS2.5 | 1A/S802 |
| HD-2 | HDU8-SDS2.5 | 1B/S802 |
| HD-3 | HDU14-SDS2.5 | 1B/S802 |
| | | |
| | | |
| | | |
| | | |
| | | |
| | | |

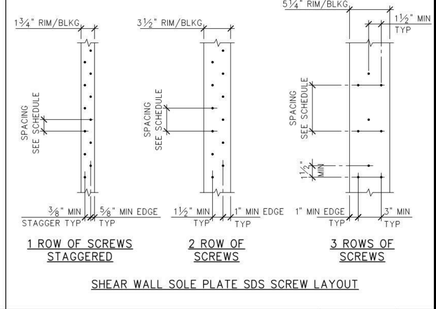
HOLDDOWN SCHEDULE — SCALE: 3/4" = 1'-0" — 7 — S8.02



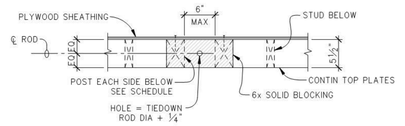

DETAIL — SCALE: NONE — 8 — S8.02




DETAIL — SCALE: NONE — 9 — S8.02

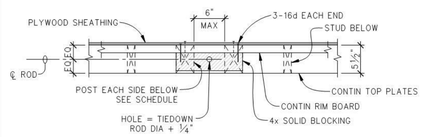



DETAIL — SCALE: NONE — 10 — S8.02



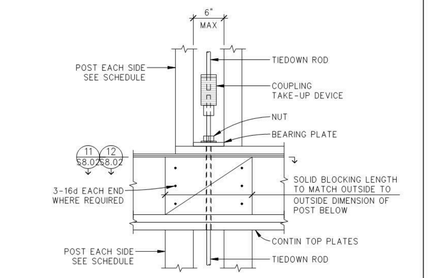

INTERIOR SHEAR WALL PERPENDICULAR TO JOIST

PLAN DETAIL — SCALE: NONE — 11 — S8.02




INTERIOR/EXTERIOR SHEAR WALL PARALLEL TO JOIST

PLAN DETAIL — SCALE: NONE — 12 — S8.02



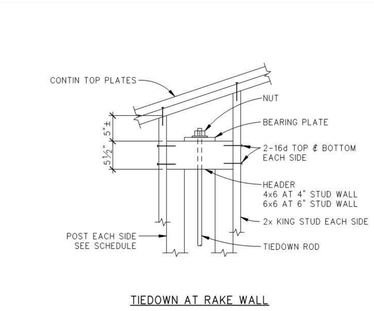

TYP SOLID BLOCKING

DETAIL — SCALE: NONE — 13 — S8.02

| MARK | 1 | 2 | 3 | 4 | 5 | 6 | 7 |
|---|---|---|---|---|---|---|---|
| | ASSEMBLY COMPONENT PART NUMBERS AND CAPACITIES (2) | | | | | | |
| ROOF | | | | | | | |
| 2x6 WALL (6) | | | | | | | |
| 2x4 WALL (6) | | | | | | | |
| 5TH FLOOR OR LOW ROOF | | | | | | | |
| 2x6 WALL (6) | | | | | | | |
| 2x4 WALL (6) | | | | | | | |
| 4TH FLOOR OR LOW ROOF | | | | | | | |
| 2x6 WALL (6) | | | | | | | |
| 2x4 WALL (6) | | | | | | | |
| 3RD FLOOR | | | | | | | |
| 2x6 WALL (6) | | | | | | | |
| 2x4 WALL (6) | | | | | | | |
| BASE | | | | | | | |
| BASE DETAIL | SEE PLAN | SEE PLAN | SEE PLAN | SEE PLAN | SEE PLAN | SEE PLAN | SEE PLAN |
| ELEVATION | 3/S802 | 3/S802 | 4/S802 | 4/S802 | 5/S802 | 5/S802 | 5/S802 |

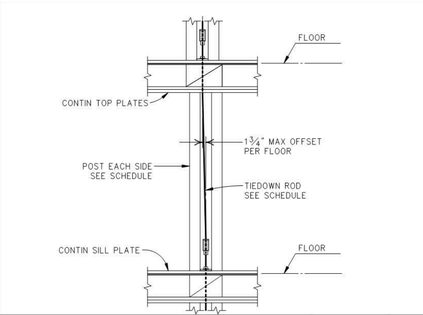
NOTES:
1. ANCHOR ROD TIEDOWN SYSTEMS SHALL HAVE A CURRENT ICC REPORT
2. LOAD LISTED AT ASD LEVEL
3. TOTAL VERTICAL MOVEMENT OF THE ANCHOR ROD TIEDOWN SYSTEM AND ALL COMPONENTS SHALL COMPLY WITH THE SFBC CONTINUOUS TIEDOWN ADMINISTRATIVE BULLETIN.
4. PROVIDE COUPLING TAKE-UP DEVICE AT ALL INTERMEDIATE LEVELS
5. CONTRACTOR TO SUBMIT SHOP DRAWINGS FOR TIEDOWN SYSTEM PER PROJECT GENERAL NOTES AND SPECIFICATIONS
6. POST SIZE IS THE MINIMUM POST SIZE U.N.O., SEE PLANS & DETAILS FOR CONDITION WHERE LARGER POST IS REQUIRED
7. HOLES FOR TIEDOWN ROD THROUGH TOP PLATES AND SOLID BLOCKING SHALL BE ROD DIAMETER + 1/4" MAX
8. POST 1/POST(S) 2 INDICATES ASSEMBLY OF POST 1 AT END OF WALL, TIEDOWN ROD & GAP, THEN POST(S) 2

ANCHOR TIEDOWN SYSTEM (ATS) SCHEDULE — SCALE: NONE — 17 — S8.02

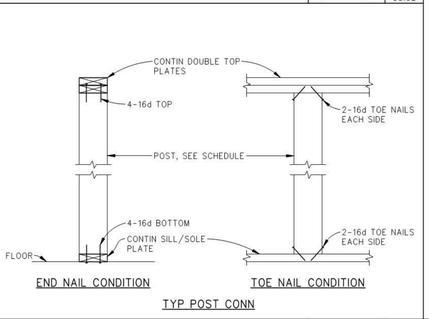



TIEDOWN AT RAKE WALL

DETAIL — SCALE: NONE — 14 — S8.02




DETAIL - ROD OFFSET — SCALE: NONE — 15 — S8.02




TYP POST CONN

DETAIL — SCALE: NONE — 16 — S8.02

**OWNER:** SRCS VENETIA VALLEY K-8

**PROJECT NAME:** CLASSRROM REPLACEMENT AND NEW MPR BUILDING

**CLIENT ADDRESS:** 177 N San Pedro Rd, San Rafael, CA 94903

**DESIGN DEVELOPMENT SET**

**REVISIONS:**

| | DESCRIPTION | DATE |
|---|---|---|
| 1 | | |
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| 12 | | |
| 13 | | |

**DATE ISSUED:** 08-18-2017
**PROJECT NO:** 1700117.00
**SCALE:** AS NOTED

**SHEET NUMBER:** S8.02

**SHEET TITLE:**

# TIEDOWN SCHEDULE, ELEVATIONS, AND DETAILS


SVA ARCHITECTS
3 MACARTHUR PLACE, SUITE 850 SANTA ANA, CA 92707
T 949.809.3380 WWW.SVA-ARCHITECTS.COM



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1. THE MINIMUM RATE OF OUTDOOR AIR REQUIRED PER SECTION 120.1 (b) 2 SHALL BE SUPPLIED TO EACH SPACE AT ALL TIME THE SPACE IS USUALLY OCCUPIED PER SECT. 120.1 (c) 3.
2. THE LESSER OF THE MINIMUM RATE OF OUTDOOR AIR REQUIRED BY SECT. 120.1 (b) 2, OR THREE COMPLETE AIR CHANGES SHALL BE SUPPLIED TO THE ENTIRE BUILDING DURING THE ONE–HOUR PERIOD IMMEDIATELY BEFORE THE BUILDING IS NORMALLY OCCUPIED.
3. ALL AIR DISTRIBUTION SYSTEM DUCTS AND PLENUMS, INCLUDING, BUT NOT LIMITED TO, BUILDING CAVITIES, MECHANICAL CLOSETS, AIR–HANDLER BOXES AND SUPPORT PLATFORMS USED AS DUCTS OR PLENUMS, SHALL BE INSTALLED, SEALED, AND INSULATED TO MEET THE REQUIREMENTS OF THE 2016 CALIFORNIA MECHANICAL CODE AND SMACNA HVAC DUCT CONSTRUCTION STANDARDS. SUPPLY AIR AND RETURN AIR DUCTS CONVEYING HEATED OR COOLED AIR SHALL BE INSULATED TO A MINIMUM INSTALLED LEVEL OF R–4.2 (R–8 IN UNCONDITIONED SPACE), UNLESS DUCTS ARE IN CONDITIONED SPACE PER SECT. 120.4 (a).
4. THE THERMOSTATIC CONTROLS FOR HVAC SYSTEMS SHALL MEET THE FOLLOWING REQUIREMENTS AS APPLICABLE:
   a) EACH SPACE CONDITIONING ZONE SHALL BE CONTROLLED BY AN INDIVIDUAL THERMOSTATIC CONTROL THAT RESPONDS TO TEMPERATURE WITHIN THE ZONE AND MEETS THE APPLICABLE REQUIREMENTS OF SECTION (b).
   b) EACH THERMOSTATIC CONTROL REQUIRED BY SECTION (a) SHALL BE CAPABLE OF BEING SET LOCALLY OR REMOTELY BY ADJUSTMENT OR SELECTION OF SENSORS TO CONTROL:
   1) COMFORT HEATING DOWN TO 55°F OR LOWER.
   2) COMFORT UP TO 85° F OR HIGHER.
   3) BOTH HEATING AND COOLING, THE THERMOSTATIC CONTROLS SHALL BE CAPABLE OF PROVIDING A TEMPERATURE RANGE OR DEAD BAND OF AT LEAST 5°F WITHIN WHICH THE SUPPLPY OF HEATING AHND COOLING ENERGY TO THE ZONE IS SHUT OFF OR REDUCED TO A MINIMUM PER SECT. 120.2 (a) & (b).
5. OUTDOOR AIR SUPPLY AND EXHAUST EQUIPMENT SHALL BE INSTALLED WITH DAMPERS THAT AUTOMATICALLY CLOSE UPON FAN SHUTDOWN PER SECT. 120.2 (f).
6. THE PIPING FOR ALL SPACE CONDITIONING AND SERVICE WATER HEATING SYSTEMS SHALL BE INSULATED IN ACCORDANCE WITH TABLE 120.3 – A PER SECT. 120.3.
7. LAVATORIES IN PUBLIC RESTROOMS SHALL HAVE CONTROLS THAT LIMIT THE WATER SUPPLY TEMPERATURE TO 110°F PER SECT. 110.3 (c) 3.

## GENERAL NOTES – MANDATORY MEASURES 5

1. HVAC, REFRIGERATION AND FIRE SUPPRESION EQUIPMENT SHALL NOT CONTAIN CFC'S OR HALONS. (CALGREEN 5.508.1)
2. PROVIDE MERV 8 (OR BETTER) FILTRATION FOR MECHANICALLY VENTILATED SPACES, OUTSIDE AIR, AND RETURN AIR. (CALGREEN 5.504.5.3)
3. CALGREEN COMMISSIONING IS ONLY REQUIRED FOR NEW BUILDINGS 10,000SF AND GREATER. (CALGREEN 5.410.2)
4. ALL ENVELOPE AND MECHANICAL CERTIFICATE OF ACCEPTANCE FORMS AND ALL RELATED ACCEPTANCE DOCUMENTS SHALL BE SUBMITTED TO THE FIELD INSPECTOR DURING CONSTRUCTION. CERTIFICATE OF OCCUPANCY WILL NOT BE ISSUED UNTIL THESE FORMS ARE REVIEWED AND APPROVED. PER CALGREEN 5.714.4
5. PERMANENT HVAC SYSTEMS SHALL ONLY BE USED DURING CONSTRUCTION IF NECESSARY TO CONDITION THE BUILDING WITHIN THE REQUIRED TEMPERATURE RANGE FOR MATERIAL AND EQUIPMENT INSTALLATION. IF THE HVAC SYSTEM IS USED DURING CONSTRUCTION, USE RETURN AIR FILTERS WITH A MINIMUM EFFICIENCY REPORTING VALUE (MERV) OF 8, BASED ON ASHRAE 52.2 1999, OR AN AVERAGE EFFICIENCY OF 30% BASED ON ASHRAE 52.1 1992. REPLACE ALL FILTERS IMMEDIATELY PRIOR TO OCCUPANCY.
6. DURING CONSTRUCTION (AT TIME OF INSTALLATION AND WHILE BEING STORED ON SITE) AND UNTIL FINAL STARTUP OF HEATING AND COOLING EQUIPMENT, ENDS OF DUCT OPENINGS ARE TO BE SEALED, AND MECHANICAL EQUIPMENT IS TO BE COVERED PER CALGREEN SECTION 5.714.4.3.
7. ALL ADHESIVES, SEALANTS, CAULKS, PAINTS AND COATINGS, AEROSOL PAINTS AND COATINGS SHALL COMPLY WITH VOC LIMITS PER CALGREEN 5.714.4.4.1.
8. A COMPLETE REPORT OF COMMISSIONING PROCESS ACTIVITIES UNDERTAKEN THROUGH THE DESIGN, CONSTRUCTION, AND REPORTING RECOMMENDATIONS FOR POST–CONSTRUCTION PHASES OF THE BUILDILNG PROJECT SHALL BE COMPLETED AND PROVIDED TO THE OWNER OR REPRESENTATIVE.
9. THE PERMANENT HVAC SYSTEM SHALL ONLY BE USED DURING CONSTRUCTION IF NECESSARY TO CONDITION THE BUILDING OR AREAS OF ADDTION OR ALTERATION WITHIN THE REQUIRED TEMPERATURE RANGE FOR MATERIAL AND EQUIPMENT INSTALLATION. IF THE HVACE SYSTEM IS USED DURING CONSTRUCTION, USE RETURN FILTERS WITH A MINIMUM EFFICIENCY REPORTING VALUE (MERV) OF 8, BASED ON ASHRAE 52.2–1999. REPLACE ALL FILTERS IMMEDIATELY PRIOR TO OCCUPANCY, OR, IF THE BUILDING IS OCCUPIED DURING ALTERATION, AT THE CONCLISION OF CONSTRUCTION. (CAL GREEN 5.504.1.3)
10. AT THE TIME OF ROUGH INSTALLATION AND DURING STORAGE ON THE CONSTRUCTION SITE UNTIL FINAL STARTUP OF THE HEATING, COOLING, AND VENTILATING EQUIPMENT, ALL DUCT AND OTHER RELATED AIR DISTRIBUTION COMPONENT OPENINGS SHALL BE COVERED WITH TAPE, PLASTIC, SHEETMETAL, OR OTHER METHODS ACCEPTABLE TO THE ENFORCING AGENCY TO REDUCE THE AMOUNT OF DUST, WATER AND DEBRIS WHICH MAY ENTER THE SYSTEM. (CAL GREEN 5.504.3)
11. ALL ADHESIVES, SEALANTS, CAULKS, PAINTS AND COATINGS SHALL COMPLY WITH VOC LIMITS. (CAL GREEN 5.504.4)
12. IN MECHANICALLY VENTILATED BUILDINGS, PROVIDE REGULARLY OCCUPIED AREAS OF THE BUILDING WITH AIR FILTRATION MEDIA FOR OUTSIDE AND RETURN AIR THAT PROVIDES AT LEAST MERV OF 8. MERV 8 FILTERS SHALL BE ISNTALLED PRIOR TO OCCUPANCY, AND RECOMMENDATIONS FOR MAINTENANCE WITH FILTERS OF THE SAME VALUE SHALL BE INCLUDED IN THE OPERATION AND MAINTENANCE MANUAL. (CAL GREEN 5.504.5.3)
13. FOR MECHANICALLY OR NATURALLY VENTILATED SPACES IN THE BUILDINGS, MEET THE MINIMUM REQUIREMENTS OF SECTION 121 (REQUIREMENTS FOR VENTILATION) OF THE CURRENT VERSION OF THE CALIFORNIA ENERGY CODE OR THE APPLICABLE LOCAL CODE, WHICHEVER IS MORE STRINGENT, AND DIVISION 1, CHAPTER 4 OF CCR, TITLE 8. (CAL GREEN 5.506.1)
14. FOR BUILDINGS OR ADDITIONS EQUIPPED WITH DEMAND CONTROL VENTILATION, CO2 SENSORS AND VENTILATION CONTROLS SHALL BE SPECIFIED AND INSTALLED IN ACCORDANCE WITH THE REQUIREMENTS OF THE 2016 CALIFORNIA ENERGY CODE 120¤(4). (CAL GREEN 5.506.2)
17. HVAC SYSTEM INSTALLERS SHALL BE TRAINED AND CERTIFIED OR WORK UNDER DIRECT SUPERVISION OF TRAINED AND CERTIFIED INSTALLERS IN THE PROPER INSTALLATION OF HVAC SYSTEMS. (CAL GREEN 702.1)
18. WHEN REQUIRED BY THE BUILDING OFFICIAL, HVAC SPECIAL INSPECTORS MUST BE QUALIFIED AND ABLE TO DEMONSTRATE COMPETENANCE IN THE DISCIPLINE THEY ARE INSPECTING. (CAL GREEN 702.2)

## CALGREEN NOTES 6

ALL MECHANICAL, PLUMBING, AND ELECTRICAL COMPONENTS SHALL BE ANCHORED AND INSTALLED PER THE DETAILS ON THE DSA APPROVED CONSTRUCTION DOCUMENTS. WHERE NO DETAIL IS INDICATED, THE FOLLOWING COMPONENTS SHALL BE ANCHORED OR BRACED TO MEET THE FORCE AND DISPLACEMENT REQUIREMENTS PRESCRIBED IN THE 2016 CBC, SECTIONS 1616A.1.18 THROUGH 1616A.1.26 AND ASCE 7–10 CHAPTER 13, 26, AND 30.

1. ALL PERMANENT EQUIPMENT AND COMPONENTS.
2. TEMPORARY OR MOVABLE EQUIPMENT THAT IS PERMANENTLY ATTACHED (E.G. HARD WIRED) TO THE BUILDING UTILITY SERVICE SUCH AS ELECTRICITY, GAS OR WATER.
3. MOVABLE EQUIPMENT WHICH IS STATION IN ONE PLACE FOR MORE THAN 8 HOURS AND HEAVIER THAN 400 POUNDS ARE REQUIRED TO BE ANCHORED WITH TEMPORARY ATTACHMENTS.

THE FOLLOWNG MECHANICAL AND ELECTRICAL COMPONENTS SHALL BE POSITIVELY ATTACHED TO THE STRUCTURE, BUT THE ATTACHMENT NEED NOT TO BE DETAILED ON PLAN. THESE COMPONENTS SHALL HAVE FLEXIBLE CONNECTIONS PROVIDED BETWEEN THE COMPONENT AND ASSOCIATED DUCTWORK, PIPING, AND CONDUIT.

A. COMPONENTS WEIGHING LESS THAN 400 POUNDS AND HAVE A CENTER OF MASS LOCATED 4 FEET OR LESS ABOVE THE ADJACENT FLOOR OR ROOF LEVEL THAT DIRECTLY SUPPORT THE COMPONENT.

B. COMPONENTS WEIGHING LESS THAN 20 POUNDS, OR IN THE CASE OF DISTRIBUTED SYSTEMS, LESS THAN 5 POUNDS PER FOOT, WHICH ARE SUSPENDED FROM A ROOF OR FLOOR HUNG FROM WALL.

FOR THOSE ELEMENTS THAT DO NOT REQUIRE DETAILS ON THE APPROVED DRAWINGS, THE INSTALLATION SHALL BE SUBJECT TO THE APPROVAL OF THE STRUCTURAL ENGINEER OF RECORD AND THE DSA DISTRICT STRUCTURAL ENGINEER. THE PROJECT INSPECTOR WILL VERIFY THAT ALL COMPONENTS AND EQUIPMENT HAVE BEEN ANCHORED IN ACCORDANCE WITH ABOVE REQUIREMENTS.

## MEP COMPONENT ANCHORAGE NOTES 7

LOCATION: SAN RAFAEL, CA CLIMATE ZONE 2

DESIGN CONDITION: SUMMER – (0.5%) 90°FDB/65°FWB; WINTER (0.6%) – 37°FDB

INDOOR DESIGN CONDITIONS: CLASSROOMS – 75° COOL/70° HEAT
SUPPORT ROOM (IDF, CORRIDOR, RESTROOMS) – 75° COOL/70° HEAT

## DESIGN CONDITIONS 8

1. ALL DRAWINGS ARE CONSIDERED TO BE PART OF THE CONTRACT DOCUMENT. THE CONTRACTOR SHALL BE RESPONSIBLE FOR THE REVIEW AND COORDINATION OF ALL DRAWINGS PRIOR TO ANY CONSTRUCTION, INCLUDING STRUCTURAL, PLUMBING, AIR CONDITIONING AND ELECTRICAL. ANY DISCREPANCIES THAT OCCUR SHALL BE BROUGHT TO THE ATTENTION OF THE ENGINEER PRIOR TO THE START OF CONSTRUCTION SO THAT A CLARIFICATION CAN BE ISSUED. ANY WORK PERFORMED IN CONFLICT WITH THE CONTRACT DOCUMENTS OR ANY CODE REQUIREMENT SHALL BE CORRECTED BY THE CONTRACTOR AT HIS OWN EXPENSE, AND AT NO EXPENSE TO THE OWNER.
2. ALL SYMBOLS AND ABBREVIATIONS USED ON THE DRAWINGS ARE CONSIDERED TO BE CONSTRUCTION STANDARDS. IF CLARIFICATION IS REQUIRED, THE CONTRACTOR SHALL NOTIFY ENGINEER PRIOR TO PROCEDING WITH THE WORK.
3. DO NOT SCALE DRAWINGS. ALL DIMENSIONS AND JOB SITE CONDITIONS SHALL BE VERIFIED BY THE CONTRACTOR AT THE JOB SITE PRIOR TO BID SUBMITTAL, START OF CONSTRUCTION AND/OR FABRICATION OF MATERIALS. IF DISCREPANCIES ARE ENCOUNTERED, THE ENGINEER SHALL BE NOTIFIED FOR CLARIFICATION.
4. THE CONTRACTOR SHALL FURNISH ALL MATERIALS, LABOR, EQUIPMENT, TRANSPORTATION AND SERVICES NECESSARY FOR COMPLETION OF THE WORK. ALL MATERIALS AND WORK SHALL COMPLY WITH APPLICABLE CODES AND GOVERNING REGULATIONS AND MEET THE APPROVAL OF THE CITY AND STATE FIRE MARSHALL.
5. VERIFY FINAL LOCATION OF THERMOSTATS WITH ARCHITECT AND/OR TENANT CONSTRUCTION COORDINATOR PRIOR TO ANY INSTALLATION WORK. UNLESS OTHERWISE NOTED, THERMOSTATS SHALL BE LOCATED, 48" A.F.F.
6. CONTRACTOR SHALL PROVIDE RECORD/AS BUILT DOCUMENTS TO TENANT CONSTRUCTION COORDINATOR OR ARCHITECT AT COMPLETION OF TENANT CONSTRUCTION.
7. MAINTAIN NET FREE AREA EQUAL TO DUCT SIZE WHERE FIRE DAMPERS OCCUR.
8. ROOM THERMOSTATS SHALL BE CAPABLE OF BEING SET TO MAINTAIN SPACE TEMPERATURE SET POINTS FOR 55° F TO 85° F AND SHALL BE CAPABLE OF OPERATING THE HEATING AND COOLING IN SEQUENCE. THERMOSTATS SHALL BE ADJUSTABLE TO PROVIDE A TEMPERATURE RANGE OF UP TO 5° F BETWEEN FULL HEATING AND FULL COOLING BEING SUPPLIED. TEMPERATURE CONTROL SYSTEM SHALL OPERATE IN ACCORDANCE WITH THE BASE BUILDING SEQUENCE OF OPERATION.
9. PROVIDE MINIMUM DUCT RADIUS ON ELBOWS AT 1–1/2 TIMES DUCT SIZE.
10. ALL CEILING DIFFUSERS ARE 4–WAY THROW UNLESS NOTED OTHERWISE.
11. CONTRACTOR SHALL COORDINATE ALL CEILING DIFFUSERS AND GRILLES WITH ARCHITECTURAL REFLECTED CEILING PLAN. IF ANY DISCREPANCIES ARE ENCOUNTERED THE ENGINEER SHALL BE NOTIFIED FOR CLARIFICATION.
12. ALL MATERIALS EXPOSED WITHIN THE CEILING PLENUM SHALL HAVE A FLAME–SPREAD INDEX OF NOT MORE THAN 25 AND A SMOKE DEVELOPED RATING OF NOT MORE THAN 50.
13. VENTS SHALL NOT TERMINATE LESS THAN 3–FT. ABOVE ANY OUTSIDE– OR MAKEUP–AIR INLET LOCATED WITHIN 10–FT. AT THE ROOF LEVEL.
14. COORDINATE CEILING ACCESS PANEL LOCATION W/ ARCHITECT.
15. PRIOR TO ROUGH–IN OF ELECTRICAL, PROVIDE COORDINATION SHOP DRAWINGS OF T–STAT LOCATIONS TO ARCH./ENG. FOR REVIEW.
16. CONTRACTOR SHALL SUBMIT SAMPLE THERMOSTATS TO ARCH./ENG. FOR REVIEW.
17. MECHANICAL SYSTEMS SHALL BE INSTALLED IN COMPLIANCE WITH 2016 MECHANICAL MECHANICAL CODE (CMC) AND ALL APPLICABLE LOCAL, STATE CODES AND REGULATIONS WITH AMENDMENTS (LATEST EDITION).
18. HEATING, VENTILATION, AND AIR–CONDITIONING SYSTEMS SHALL BE BALANCED IN ACCORDANCE WITH SECTION 317.0 OF THE MECHANCIAL CODE.
19. ACCESS TO THE ROOF MOUNTED EQUIPMENT SHALL COMPLY WITH SECTION 304.0 OF THE MECHANICAL CODE.
20. AIR CONDITIONING REFRIGERANT CIRCUITS SPORTS LOCATED OUTDOORS SHALL BE PROTECTED FROM UNAUTHORIZED ACCESS WITH LOCKING TYPE TAMPER RESISTANT CAPS.
21. ROOF MOUNTED EQUIPMENT SHALL BE LABELED AS TO THE SPACE IT SERVES.

## GENERAL NOTES 2

EQUIPMENT AND SYSTEMS EFFICIENCY

1. ANY APPLIANCE FOR WHICH THERE IS A CALIFORNIA STANDARD ESTABLISHED IN THE APPLIANCE EFFICIENCY STANDARDS MAY BE INSTALLED ONLY IF THE MANUFACTURER HAS CERTIFIED TO THE COMMISSION , AS SPECIFIED IN THOSE REGULATIONS , THAT THE APPLIANCE COMPLIES WITH THE APPLICABLE STANDARD FOR THAT APPLIANCE .
2. PIPING AND DUCTING SYSTEMS SHALL BE INSULATED IN ACCORDANCE WITH THE SECTIONS 120.3, 120.4, 120.7 OF TITLE 24 EES, CHAPTER 6 OF THE 2016 CMC, AND ALL CODES HAVING JURISDICTION.

CONTROLS

3. ALL HVAC SYSTEMS SHALL MEET THE CONTROL REQUIREMENTS PER SECTION 110.2 AND 120.2 E.E.S.
4. ALL HVAC EQUIPMENT AND APPLIANCES SHALL MEET THE REQUIREMENTS PER SECTION 110.1–110.3, 110.5, 120.1–120.4 TITLE–24 ENERGY STANDARDS.
5. EACH SPACE CONDITIONING SYSTEM SHALL BE INSTALLED WITH AN AUTOMATIC TIME SWITCH WITH AN ACCESSIBLE MANUAL OVERRIDE THAT ALLOWS OPERATION OF THE SYSTEM DURING OFF–HOURS FOR UP TO 4 HOURS . THE TIME SWITCH SHALL BE CAPABLE OF PROGRAMMING DIFFERENT SCHEDULES FOR WEEKDAYS AND WEEKENDS , INCORPORATE AN AUTOMATIC HOLIDAY "SHUT–OFF" FEATURE THAT TURNS OFF ALL LOADS FOR AT LEAST 24 HOURS , THEN RESUMES THE NORMALLY SCHEDULED OPERATION , AND HAS PROGRAM BACKUP CAPABILITIES THAT PREVENT THE LOSS OF THE DEVICE'S PROGRAM AND TIME SETTING FOR AT LEAST 10 HOURS IF POWER IS INTERRUPTED.
6. EACH SPACE CONDITIONING SYSTEM SHALL BE INSTALLED WITH CONTROLS THAT TEMPORARILY RESTART AND TEMPORARILY OPERATE THE SYSTEM AS REQUIRED TO MAINTAIN A SETBACK HEATING AND COOLING THERMOSTAT SETPOINT.
7. EACH SPACE CONDITIONING ZONE SHALL BE CONTROLLED BY AN INDIVIDUAL THERMOSTATIC CONTROL THAT RESPONDS TO TEMPERATURE WITHIN THE ZONE . WHERE USED TO CONTROL HEATING , THE CONTROL SHALL BE ADJUSTABLE DOWN TO 55° F OR LOWER . FOR COOLING , THE CONTROL SHALL BE ADJUSTABLE UP TO 85° F OR HIGHER . WHERE USED TO CONTROL BOTH HEATING AND COOLING , THE CONTROL SHALL BE CAPABLE OF PROVIDING A DEAD BAND OR AT LEAST 5° F WITHIN WHICH THE SUPPLY OR HEATING AND COOLING IS SHUT OFF OR REDUCED TO A MINIMUM.
8. THERMOSTATS SHALL HAVE NUMERIC SETPOINTS IN °F.
9. THERMOSTATS SHALL HAVE ADJUSTABLE SETPOINT STOPS ACCESSIBLE ONLY TO AUTHORIZED PERSONNEL.
10. HEAT PUMPS SHALL BE INSTALLED WITH CONTROLS TO PREVENT ELECTRIC RESISTANCE SUPPLEMENTARY HEATER OPERATION WHEN THE HEATING LOAD CAN BE MET BY THE HEAT PUMP ALONE . ELECTRIC RESISTANCE SUPPLEMENTARY HEATING OPERATION IS PERMITTED DURING TRANSIENT PERIODS , SUCH AS START–UPS AND FOLLOWING ROOM THERMOSTAT SETPOINT ADVANCE , WHEN CONTROLS ARE PROVIDED WHICH USE PREFERENTIAL RATE CONTROL , INTELLIGENT RECOVERY , STAGING , RAMPING , OR SIMILAR CONTROL MECHANISMS DESIGNED TO PRECLUDE THE UNNECESSARY OPERATION OF SUPPLEMENTARY HEATING DURING THE RECOVERY PERIOD . SUPPLEMENTARY HEATER OPERATION IS ALSO PERMITTED DURING DEFROST.
11. GRAVITY OR AUTOMATIC DAMPERS INTERLOCKED AND CLOSED ON FAN SHUTDOWN SHALL BE PROVIDED ON THE OUTSIDE AIR INTAKES AND DISCHARGES OF ALL SPACE CONDITIONING AND EXHAUST SYSTEMS .
12. ALL GRAVITY VENTILATING SYSTEMS SHALL BE PROVIDED WITH AUTOMATIC OR READILY ACCESSIBLE MANUALLY OPERATED DAMPERS IN ALL OPENINGS TO THE OUTSIDE , EXCEPT FOR COMBUSTION AIR OPENINGS.
13. ALL BALANCING : ALL SPACE CONDITIONING AND VENTILATION SYSTEMS SHALL BE BALANCED TO THE QUANTITIES SPECIFIED IN THESE PLANS , IN ACCORDANCE WITH AND PERFORMED BY A COMPANY CERTIFIED BY THE NATIONAL ENVIRONMENTAL BALANCING BUREAU (NEBB) PROCEDURAL STANDARDS (1983) , OR ASSOCIATED AIR BALANCE COUNCIL (AABC) NATIONAL STANDARDS (1986) .
14. OUTSIDE AIR CERTIFICATION : THE SYSTEM SHALL PROVIDE THE MINIMUM OUTSIDE AIR AS SHOWN ON THE MECHANICAL DRAWINGS , AND SHALL BE MEASURED AND CERTIFIED BY THE INSTALLING LICENSED C–20 MECHANICAL CONTRACTOR.
15. THE AIR CONDITIONING SYSTEM SHALL BE ENERGIZED 1 HOUR IMMEDIATELY PRIOR TO OCCUPANCY TO PROVIDE THE MINIMUM REQUIRED VENTILATION RATE.

## TITLE–24 MANDATORY MEASURES 3

PIPING, DUCTWORK AND ELECTRICAL DISTRIBUTION SYSTEMS SHALL BE BRACED TO COMPLY WITH THE FORCES AND DISPLACEMENTS PRESCRIBED IN ASCE 7–10 SECTION 13.3 AS DEFINED AN ASCE 7–10 SECTION 13.6.8, 13.6.7, 13.6.5.6, AND 2016 CBC, SECTIONS 1616A.1.23, 1616A.1.24, 1616A.1.25 AND 1616A.1.26.

THE BRACING AND ATTACHMENTS TO THE STRUCTURE SHALL BE DETAILED ON THE APPROVED DRAWINGS OR THEY SHALL COMPLY WITH ONE OF THE OSHPD PRE–APPROVALS (OPM#) APPENDIX D.

COPIES OF THE BRACING SYSTEM INSTALLATION GUIDE OR MANUAL SHALL BE AVAILABLE ON THE JOBSITE PRIOR TO THE START OF HANGING AND BRACING OF THE PIPE, DUCTWORK, AND ELECTRICAL DISTRIBUTION SYSTEMS.

THE STRUCTURAL ENGINEER OF RECORD SHALL VERIFY THE ADEQUACY OF THE STRUCTURE TO SUPPORT THE HANGER AND BRACE LOADS.

MECHANICAL PIPING (MP):MECHANICAL DUCTTS (MD):

☐OPTION 1: DETAILED ON THE APPROVED DRAWINGS WITH PROJECT SPECIFIC NOTES AND DETAILS.

☐OPTION 2: SHALL COMPLY WITH THE APPLICABLE OSHPD PRE–APPROVAL (OPM #)

☒OPTION 3: SHALL COMPLY WITH THE SMACNA SEISMIC RESTRAINT MANUAL, OSHPD EDITION (2009), INCLUDING ANY ADDENDA. FASTENERS AND OTHER ATTACHMENTS NOT SPECIFICALLY IDENTIFIED IN THE SMACNA SEISMIC RESTRAINT MANUAL, OSHPD EDITION, ARE DETAILED ON THE APPROVED DRAWINGS WITH PROJECT SPECIFIC NOTES AND DETAILS. THE DETAILS SHALL ACCOUNT FOR THE APPLICABLE SEISMIC HAZARD LEVEL "AA" AND CONNECTION LEVEL "1" FOR THE PROJECT AND CONDITIONS.

COPIES OF THE MANUAL SHALL BE AVAILABLE ON THE JOBSITE PRIOR TO THE START OF HANGING AND BRACING OF THE PIPE DISTRIBUTION SYSTEMS.

THE STRUCTURAL ENGINEER OF RECORD SHALL VERIFY THE ADEQUACY OF THE STRUCTURE TO SUPPORT THE HANGER AND BRACE LOADS.

## PIPING, DUCTWORK, AND ELECTRICAL DISTRIBUTION SYSTEM BRACING NOTES 4

| SYMBOL | ABBR. | DESCRIPTION |
|---|---|---|
| | P.O.C. | POINT OF CONNECTION |
| | | REMOVE EXIST. EQUIP. OR PIPES SHOWN HATCHED |
| | | DUCT RISE / DUCT DROP |
| | | DUCT WITH SOUND INSULATION |
| | | DUCT SECTION – SUPPLY |
| | | DUCT SECTION – RETURN |
| | | DUCT SECTION – EXHAUST |
| D.L./U.C. | D.L./U.C. | DOOR LOUVER OR UNDERCUT |
| T/x | | ROOM THERMOSTAT & ZONE NUMBER |
| S/x | | SWITCH NUMBER |
| CDWS | CD.W.S. | CONDENSER WATER SUPPLY |
| CDWR | CD.W.R. | CONDENSER WATER RETURN |
| CHWS | CH.W.S. | CHILLED WATER SUPPLY |
| CHWR | CH.W.R. | CHILLED WATER RETURN |
| HWS | H.W.S. | HEATING HOT WATER SUPPLY |
| HWR | H.W.R. | HEATING HOT WATER RETURN |
| RL | R.L. | REFRIGERANT LIQUID |
| RS | R.S. | REFRIGERANT SUCTION |
| RD | R.D. | REFRIGERANT |
| D. | D. | AUTOMATIC DAMPER |
| V.D. | V.D. | MANUAL VOLUME DAMPER |
| F.D. | F.D. | FUSIBLE LINK FIRE DAMPER |
| S.F.D. | S.F.D. | COMBINATION SMOKE & FIRE DAMPER |
| G.V. | G.V. | GATE VALVE |
| GL.V. | GL.V. | GLOBE VALVE |
| CH.V. | CH.V. | CHECK VALVE |
| B.V. | B.V. | BALL VALVE |
| BF.V. | BF.V. | BUTTERFLY VALVE |
| B.C. | B.C. | BALANCING COCK |
| RED. | RED. | REDUCER |
| STR. | STR. | STRAINER |
| U. | U. | UNION |
| P.G. | P.G. | PRESSURE GAUGE |
| TH. | TH. | THERMOMETER |
| A.V. | A.V. | AIR VENT VALVE |
| C.V. | C.V. | CONTROL VALVE |
| P.R.V. | P.R.V. | PRESSURE REDUCING VALVE |
| P.&T. R.V. | P.&T. R.V. | PRESSURE & TEMPERATURE RELIEF VALVE |
| | | PIPE ANCHOR |
| (SD) | S.D. | SMOKE DETECTOR |
| | | |
| | A.D. | ACCESS DOOR |
| | A.F.F. | ABOVE FINISHED FLOOR |
| | A.P. | ACCESS PANEL |
| | C.D. | CEILING DIFFUSER |
| | C.A. | COMBUSTION AIR |
| | D.T.R | DOWN THRU ROOF |
| | E.A. | EXHAUST AIR |
| | E.A.G. | EXHAUST AIR GRILLE |
| | E.A.R. | EXHAUST AIR REGISTER |
| | E.P. | ELECTRIC – PNEUMATIC |
| | H.O.A. | HAND – OFF – AUTOMATIC |
| | N.C. | NORMALLY CLOSED |
| | N.O. | NORMALLY OPEN |
| | N.I.C. | NOT IN CONTRACT |
| | M.A. | MAKE–UP AIR |
| | O.A. | OUTSIDE AIR |
| | P.E. | PNEUMATIC – ELECTRIC |
| | RE. A. | RELIEF AIR |
| | RE. A. G. | RELIEF AIR GRILLE |
| | R.A. | RETURN AIR |
| | R.A.G. | RETURN AIR GRILLE |
| | R.A.R. | RETURN AIR REGISTER |
| | S.A. | SUPPLY AIR |
| | S.A.G. | SUPPLY AIR GRILLE |
| | S.A.R. | SUPPLY AIR REGISTER |
| | S.I. | SOUND INSULATION |
| | T. | THROAT |
| | U.N.O. | UNLESS NOTED OTHERWISE |
| | U.T.R. | UP THRU ROOF |
| | V.A.V. | VARIABLE AIR VOLUME |
| | V.T.R. | VENT THRU ROOF |
| | | |
| (M) | | FURNISHED & INSTALLED BY MECHANICAL |
| (ME) | | FURNISHED BY MECHANICAL INSTALLED BY ELECTRICAL |
| (EM) | | FURNISHED BY ELECTRICAL INSTALLED BY MECHANICAL |
| (E) | | FURNISHED & INSTALLED BY ELECTRICAL |
| | | CEILING DIFFUSER<br>NECK SIZE (IN. ⌀)<br>AIR QUANTITY (C.F.M.) |
| | | RETURN AIR REGISTER<br>NECK SIZE (IN. x IN.)<br>AIR QUANTITY (C.F.M.) |
| | | SUPPLY & EXHAUST REGISTER<br>NECK SIZE (IN. x IN.)<br>AIR QUANTITY (C.F.M.) |
| | | LINEAR SUPPLY<br>NO. OF SLOTS – WIDTH<br>C.F.M. / FT.<br>TOTAL LENGTH |

## LEGEND & SYMBOLS 1

**OWNER:** SRCS VENETIA VALLEY K-8

**PROJECT NAME:** CLASSROOM REPLACEMENT AND NEW MPR BUILDING

**CLIENT ADDRESS:** 177 N San Pedro Rd, San Rafael, CA 94903

100% DD PROGRESS SET


REGISTERED PROFESSIONAL ENGINEER LARRY SUN No. M25633 EXP 09–30–18 MECHANICAL STATE OF CALIFORNIA

tk1sc COLLABORATIVE
11870 Pierce Street, Suite 160
Riverside, California 92505
951.299.4160 www.tk1sc.com
Project Manager-William Galarza
tk1sc Job #: 2017-0452


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DIVISION OF THE STATE ARCHITECT
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**DATE ISSUED:** 07/14/2017

**PROJECT NO:**

**SCALE:**

**SHEET NUMBER:** M0.1

**SHEET TITLE:**

LEGENDS, SYMBOLS AND NOTES


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# DEDICATED OUTSIDE AIR UNIT

| UNIT NO. | MANUFACTURER & MODEL NO. | NO. OF | SERVICE | SUPPLY FAN | | | HEATING | | | | | ELECTRICAL | | | | FILTERS | | O.S.A. CFM | OPER. WT. (LBS.) | CURB WT. (LBS.) | ANCHORAGE DETAIL REFERENCE | REMARKS |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | | | | CFM | ESP (IN.) | FAN RPM | INPUT (BTU/HR) | OUTPUT (BTU/HR) | STAGES | EAT (°F) | LAT (°F) | FAN HP | VOLTAGE | FLA | MCA | MOCP | (NO.) & SIZE | MERV | | | | | |
| **BUILDING E** | | | | | | | | | | | | | | | | | | | | | | |
| DOAS 1E | GREENHECK RV-45 | 1 | – | 7,500 | – | – | – | – | – | – | – | – | 208V/3PH/60Hz | – | – | – | – | – | – | – | – | |
| DOAS 2E | GREENHECK RV-25 | 1 | – | 3,200 | – | – | – | – | – | – | – | – | 208V/3PH/60Hz | – | – | – | – | – | – | – | – | |
| DOAS 3E | GREENHECK RV-45 | 1 | – | 6,400 | – | – | – | – | – | – | – | – | 208V/3PH/60Hz | – | – | – | – | – | – | – | – | |

# ROOFTOP GAS / ELECTRIC UNITS

| UNIT NO. | MANUFACTURER & MODEL NO. | SERVICE | SUPPLY FAN | | COOLING CAPACITY (BTU/HR) | | | | AMB. TEMP (°F) | SEER (EER) | HEATING CAPACITY (BTU/HR) | | AFUE% | ELECTRICAL | | | MODULATING POWER EXHAUST ELECTRICAL | | | | | FILTERS | | MIN. OSA (CFM) | DCV OSA (CFM) | OPER. WT. (LBS.) | VIBRATION ISOLATION WT.(LBS.) | ANCHORAGE DETAIL REFERENCE | REMARKS |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | | | CFM | ESP (IN.) | TOTAL | SENS. | EDB (°F) | EWB (°F) | | | INPUT | OUTPUT | | MCA | MOCP | VOLTAGE | HP | FLA | MCA | MOCP | V/PH | (NO.) & SIZE | TYPE | | | | | | |
| BUILDING D | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| AC 1D | CARRIER 48HC | MPR D105 | – | – | – | – | – | – | – | – | – | – | – | – | – | 208V/3PH/60Hz | – | – | – | – | – | – | MERV – | – | – | – | – | | |
| AC 2D | CARRIER 48HC | MPR D105 | – | – | – | – | – | – | – | – | – | – | – | – | – | 208V/3PH/60Hz | – | – | – | – | – | – | MERV – | – | – | – | – | | |
| AC 3D | CARRIER 48HC | MPR LOBBY D100–A | – | – | – | – | – | – | – | – | – | – | – | – | – | 208V/3PH/60Hz | – | – | – | – | – | – | MERV – | – | – | – | – | | |
| AC 4D | CARRIER 48HC | KITCHEN D120 | – | – | – | – | – | – | – | – | – | – | – | – | – | 208V/3PH/60Hz | – | – | – | – | – | – | MERV – | – | – | – | – | | |
| AC 5D | CARRIER 48HC | CR 3–G1 D110 | – | – | – | – | – | – | – | – | – | – | – | – | – | 208V/3PH/60Hz | – | – | – | – | – | – | MERV – | – | – | – | – | | |
| AC 6D | CARRIER 48HC | CR 2–G1 D109 | – | – | – | – | – | – | – | – | – | – | – | – | – | 208V/3PH/60Hz | – | – | – | – | – | – | MERV – | – | – | – | – | | |
| AC 7D | CARRIER 48HC | CR 1–TK D108 | – | – | – | – | – | – | – | – | – | – | – | – | – | 208V/3PH/60Hz | – | – | – | – | – | – | MERV – | – | – | – | – | | |

# SPLIT SYSTEM INDOOR FAN COIL UNITS (VRF)

| UNIT NO. | MANUFACTURER & MODEL NO. | SERVICE | TYPE | SUPPLY FAN | | NOMINAL PERFORMANCE DATA | | | | ELECTRICAL | | | FILTER TYPE | O.S.A. CFM | OPER. WT. (LBS.) | OUTDOOR UNIT | REMARKS |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | | | | CFM | ESP (IN.) | COOLING (BTU/H) | HEATING (BTU/H) | E.A.T. (°F) DB | E.A.T. (°F) WB | MCA | MOCP | VOLTAGE | | | | | |
| BUILDING E | | | | | | | | | | | | | | | | | |
| SFC 1E | TOSHIBA CARRIER MMD–AP048 | CR 9–SDC2 108 | DUCTED | – | – | – | – | – | – | 3.65 | 15 | 208V/1PH/60Hz | MERV 8 | – | – | | – |
| SFC 2E | TOSHIBA CARRIER MMU–AP012 | SPEECH E107 | 4–WAY CASSETTE | – | – | – | – | – | – | 0.5 | 15 | 208V/1PH/60Hz | MERV 8 | – | – | | – |
| SFC 3E | TOSHIBA CARRIER MMU–AP012 | OCCT E106 | 4–WAY CASSETTE | – | – | – | – | – | – | 0.5 | 15 | 208V/1PH/60Hz | MERV 8 | – | – | | – |
| SFC 4E | TOSHIBA CARRIER MMD–AP048 | TUTORING E105 | DUCTED | – | – | – | – | – | – | 3.65 | 15 | 208V/1PH/60Hz | MERV 8 | – | – | | – |
| SFC 5E | TOSHIBA CARRIER MMD–AP048 | CR 10–SDC1 E112 | DUCTED | – | – | – | – | – | – | 3.65 | 15 | 208V/1PH/60Hz | MERV 8 | – | – | | – |
| SFC 6E | TOSHIBA CARRIER MMD–AP048 | FLEX/STEM E113 | DUCTED | – | – | – | – | – | – | 3.65 | 15 | 208V/1PH/60Hz | MERV 8 | – | – | | – |
| SFC 7E | TOSHIBA CARRIER MMD–AP048 | RSP E104 | DUCTED | – | – | – | – | – | – | 3.65 | 15 | 208V/1PH/60Hz | MERV 8 | – | – | | – |
| SFC 8E | TOSHIBA CARRIER MMD–AP048 | CR 8–G2 E103 | DUCTED | – | – | – | – | – | – | 3.65 | 15 | 208V/1PH/60Hz | MERV 8 | – | – | | – |
| SFC 9E | TOSHIBA CARRIER MMD–AP048 | CR 5–SDC 1 E102 | DUCTED | – | – | – | – | – | – | 3.65 | 15 | 208V/1PH/60Hz | MERV 8 | – | – | | – |
| SFC 10E | TOSHIBA CARRIER MMD–AP048 | CR 4–G1 E101 | DUCTED | – | – | – | – | – | – | 3.65 | 15 | 208V/1PH/60Hz | MERV 8 | – | – | | – |
| SFC 11E | TOSHIBA CARRIER MMD–AP048 | CR 6–G2 E120 | DUCTED | – | – | – | – | – | – | 3.65 | 15 | 208V/1PH/60Hz | MERV 8 | – | – | | – |
| SFC 12E | TOSHIBA CARRIER MMD–AP048 | CR 7–G2 E121 | DUCTED | – | – | – | – | – | – | 3.65 | 15 | 208V/1PH/60Hz | MERV 8 | – | – | | – |
| SFC 13E | TOSHIBA CARRIER MMD–AP048 | CR 19–G3 E209 | DUCTED | – | – | – | – | – | – | 3.65 | 15 | 208V/1PH/60Hz | MERV 8 | – | – | | – |
| SFC 14E | TOSHIBA CARRIER MMD–AP048 | CR 18–G3 E208 | DUCTED | – | – | – | – | – | – | 3.65 | 15 | 208V/1PH/60Hz | MERV 8 | – | – | | – |
| SFC 15E | TOSHIBA CARRIER MMD–AP048 | CR 17–G3 E207 | DUCTED | – | – | – | – | – | – | 3.65 | 15 | 208V/1PH/60Hz | MERV 8 | – | – | | – |
| SFC 16E | TOSHIBA CARRIER MMD–AP048 | CR 20–G3 E212 | DUCTED | – | – | – | – | – | – | 3.65 | 15 | 208V/1PH/60Hz | MERV 8 | – | – | | – |
| SFC 17E | TOSHIBA CARRIER MMD–AP048 | CR 16–G4 E206 | DUCTED | – | – | – | – | – | – | 3.65 | 15 | 208V/1PH/60Hz | MERV 8 | – | – | | – |
| SFC 18E | TOSHIBA CARRIER MMD–AP048 | CR 15–G4 E205 | DUCTED | – | – | – | – | – | – | 3.65 | 15 | 208V/1PH/60Hz | MERV 8 | – | – | | – |
| SFC 19E | TOSHIBA CARRIER MMD–AP048 | CR 12–G4 E203 | DUCTED | – | – | – | – | – | – | 3.65 | 15 | 208V/1PH/60Hz | MERV 8 | – | – | | – |
| SFC 20E | TOSHIBA CARRIER MMD–AP048 | CR 11–G5 E201 | DUCTED | – | – | – | – | – | – | 3.65 | 15 | 208V/1PH/60Hz | MERV 8 | – | – | | – |
| SFC 21E | TOSHIBA CARRIER MMD–AP048 | CR 13–G5 E216 | DUCTED | – | – | – | – | – | – | 3.65 | 15 | 208V/1PH/60Hz | MERV 8 | – | – | | – |
| SFC 22E | TOSHIBA CARRIER MMD–AP048 | CR 14–G5 E217 | DUCTED | – | – | – | – | – | – | 3.65 | 15 | 208V/1PH/60Hz | MERV 8 | – | – | | – |
| SFC 23E | TOSHIBA CARRIER MMU–AP012 | WK RM E109 | 4–WAY CASSETTE | – | – | – | – | – | – | 0.5 | 15 | 208V/1PH/60Hz | MERV 8 | – | – | | – |

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**PROJECT NAME:** CLASSROOM REPLACEMENT AND NEW MPR BUILDING

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**SHEET NUMBER:** M0.2

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## SPLIT SYSTEM OUTDOOR UNITS (VRF)

| UNIT NO. | MANUFACTURER & MODEL NO. | COOLING CAPACITY (BTU / HR.) • TOTAL | COOLING CAPACITY (BTU / HR.) • SENS. | NOMINAL HTG. CAP. @ 47° O.A. (BTU / HR) | AMB. TEMP. (°F) | EER | ELECTRICAL COMPRESSORS NO. OF | COMPRESSORS HP | COMPRESSORS RLA | MCA | MOCP | VOLTAGE | OPER. WT. (LBS) | INDOOR UNIT | REMARKS |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| BUILDING E | | | | | | | | | | | | | | | |
| HP 1E | TOSHIBA CARRIER MMY-AP | – | – | – | – | – | – | – | – | – | – | 208V/3PH/60Hz | – | | |
| HP 2E | TOSHIBA CARRIER MMY-AP | – | – | – | – | – | – | – | – | – | – | 208V/3PH/60Hz | – | | |
| HP 3E | TOSHIBA CARRIER MMY-AP | – | – | – | – | – | – | – | – | – | – | 208V/3PH/60Hz | – | | |

## SPLIT SYSTEM INDOOR FAN COIL UNITS (W/ OUTDOOR HEATPUMP UNITS)

| UNIT NO. | MANUFACTURER & MODEL NO. | NO. OF | SERVICE | SUPPLY FAN CFM | SUPPLY FAN ESP (IN.) | COIL DATA FACE AREA (SQ. FT.) | COIL DATA ROWS / FPI | COIL DATA E.A.T. (°F) DB | COIL DATA E.A.T. (°F) WB | ELECTRICAL HP | ELECTRICAL VOLTAGE | ELECTRICAL FAN FLA. | ELECTRICAL MCA | ELECTRICAL MOCP | FILTERS (NO.) & SIZE | FILTERS MERV | O.S.A. CFM | OPER. WT. (LBS.) | OUTDOOR UNIT | ANCHORAGE DETAIL REFERENCE | REMARKS |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| BUILDING D | | | | | | | | | | | | | | | | | | | | | |
| FC 1D | CARRIER | 1 | PSY D112 | – | – | – | – / – | – | – | – | – | – | – | – | – | – | – | – | SHP 1D | – | PROVIDE FACTORY CONDENSATE PUMP. |
| FC 2D | CARRIER | 1 | COUNSL 1 D113 | – | – | – | – / – | – | – | – | – | – | – | – | – | – | – | – | SHP 2D | – | PROVIDE FACTORY CONDENSATE PUMP. |
| FC 3D | CARRIER | 1 | COUNSL 2 D114 | – | – | – | – / – | – | – | – | – | – | – | – | – | – | – | – | SHP 3D | – | PROVIDE FACTORY CONDENSATE PUMP. |
| FC 4D | CARRIER | 1 | FAMILY CENTER D102 | – | – | – | – / – | – | – | – | – | – | – | – | – | – | – | – | SHP 4D | – | PROVIDE FACTORY CONDENSATE PUMP. |

## OUTDOOR HEATPUMP UNITS

| UNIT NO. | MANUFACTURER & MODEL NO. | NO. OF | COOLING CAPACITY (BTU / HR.) SENS. | COOLING CAPACITY (BTU / HR.) TOTAL | AMBIENT TEMP. (°F-) | S.E.E.R. | INTEG. HTG. CAP. @ 47° O.A. (BTU / HR) | COP | ELECTRICAL COMPRESSOR NO. | COMPRESSOR TYPE | COMPRESSOR HP | COMPRESSOR LRA | COMPRESSOR RLA | CONDENSER FANS NO. OF | CONDENSER FANS HP | CONDENSER FANS FLA | MCA | MOCP | VOLTAGE | OPER. WT. (LBS) | SERVICE | ANCHORAGE DETAIL REFERENCE | REMARKS |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| BUILDING D | | | | | | | | | | | | | | | | | | | | | | | |
| SHP 1D | CARRIER – | – | – | – | – | – | – | – | – | – | – | – | – | – | – | – | – | – | – | – | SFC 1D | – | PROVIDE W/ LOW AMBIENT KIT. CRANKCASE HEATER & LONG LINE ACCESSORIES. |
| SHP 2D | CARRIER – | – | – | – | – | – | – | – | – | – | – | – | – | – | – | – | – | – | – | – | SFC 2D | – | PROVIDE W/ LOW AMBIENT KIT. CRANKCASE HEATER & LONG LINE ACCESSORIES. |
| SHP 3D | CARRIER – | – | – | – | – | – | – | – | – | – | – | – | – | – | – | – | – | – | – | – | SFC 3D | – | PROVIDE W/ LOW AMBIENT KIT. CRANKCASE HEATER & LONG LINE ACCESSORIES. |
| SHP 4D | CARRIER – | – | – | – | – | – | – | – | – | – | – | – | – | – | – | – | – | – | – | – | SFC 4D | – | PROVIDE W/ LOW AMBIENT KIT. CRANKCASE HEATER & LONG LINE ACCESSORIES. |

## SPLIT SYSTEM INDOOR FAN COIL UNITS (W/ OUTDOOR CONDENSING UNITS)

| UNIT NO. | MANUFACTURER & MODEL NO. | NO. OF | SERVICE | SUPPLY FAN CFM | SUPPLY FAN ESP (IN.) | COIL DATA E.A.T. (°F) DB | COIL DATA E.A.T. (°F) WB | ELECTRICAL FLA | ELECTRICAL MCA | ELECTRICAL MOCP | ELECTRICAL VOLTAGE | FILTERS (NO.) & SIZE(IN.) | FILTERS MERV | MIN. O.A. | OPER. WT. (LBS.) | OUTDOOR UNIT | ANCHORAGE DETAIL | REMARKS |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| BUILDING E | | | | | | | | | | | | | | | | | | |
| FC 1E | CARRIER 40MAQB12B | 1 | MDF E123 | – | N/A | – | – | – | – | – | – | – | – | N/A | – | CU 1E | – | |
| FC 1E | CARRIER 40MAQB12B | 1 | IDF E204 | – | N/A | – | – | – | – | – | – | – | – | N/A | – | CU 1E | – | |

## SPLIT SYSTEM OUTDOOR CONDENSING UNIT

| UNIT NO. | MANUFACTURER & MODEL NO. | NO. OF | COOLING CAPACITY (BTU / HR.) • TOTAL | COOLING CAPACITY (BTU / HR.) • SENS. | AMB. TEMP. (°F) | SEER | ELECTRICAL FLA | ELECTRICAL MCA | ELECTRICAL MOCP | ELECTRICAL VOLTAGE | OPER. WT. (LBS) | INDOOR UNIT | ANCHORAGE DETAIL | REMARKS |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| BUILDING D | | | | | | | | | | | | | | |
| CU 1E | CARRIER – | 1 | – | – | – | – | – | – | – | – | – | FC 1E | – | |
| CU 2E | CARRIER – | 1 | – | – | – | – | – | – | – | – | – | FC 2E | – | |

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PROJECT NAME: CLASSROOM REPLACEMENT AND NEW MPR BUILDING

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# EXHAUST FANS

| UNIT NO. | MANUFACTURER & MODEL NO. | NO. OF | SERVICE | CFM | TSP (IN.) | RPM | TYPE | ELECTRICAL HP | ELECTRICAL VOLTAGE | OPER. WT. (LBS.) | ANCHORAGE DETAIL | REMARKS |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| BUILDING D | | | | | | | | | | | | |
| EF 1D | GREENHECK – | 1 | – | – | – | – | – | – | – | – | – | ⊖⊖⊖ |
| EF 2D | GREENHECK – | 1 | – | – | – | – | – | – | – | – | – | ⊖⊖⊖ |
| EF 3D | GREENHECK – | 1 | – | – | – | – | – | – | – | – | – | ⊖⊖⊖ |
| EF 4D | GREENHECK – | 1 | – | – | – | – | – | – | – | – | – | ⊖⊖⊖ |
| BUILDING E | | | | | | | | | | | | |
| EF 1E | GREENHECK – | 1 | – | – | – | – | – | – | – | – | – | ⊖⊖⊖ |
| EF 2E | GREENHECK – | 1 | – | – | – | – | – | – | – | – | – | ⊖⊖⊖ |
| EF 3E | GREENHECK – | 1 | – | – | – | – | – | – | – | – | – | ⊖⊖⊖ |
| EF 4E | GREENHECK – | 1 | – | – | – | – | – | – | – | – | – | ⊖⊖⊖ |
| EF 5E | GREENHECK – | 1 | – | – | – | – | – | – | – | – | – | ⊖⊖⊖ |
| EF 6E | GREENHECK – | 1 | – | – | – | – | – | – | – | – | – | ⊖⊖⊖ |
| EF 7E | GREENHECK – | 1 | – | – | – | – | – | – | – | – | – | ⊖⊖⊖ |
| EF 8E | GREENHECK – | 1 | – | – | – | – | – | – | – | – | – | ⊖⊖⊖ |

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**PROJECT NAME:** CLASSROOM REPLACEMENT AND NEW MPR BUILDING

**CLIENT ADDRESS:** 177 N San Pedro Rd, San Rafael, CA 94903

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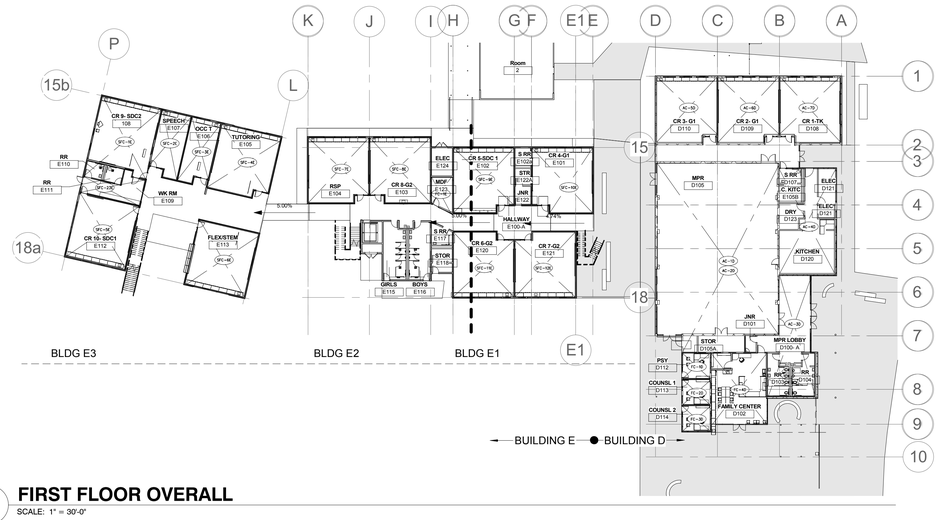
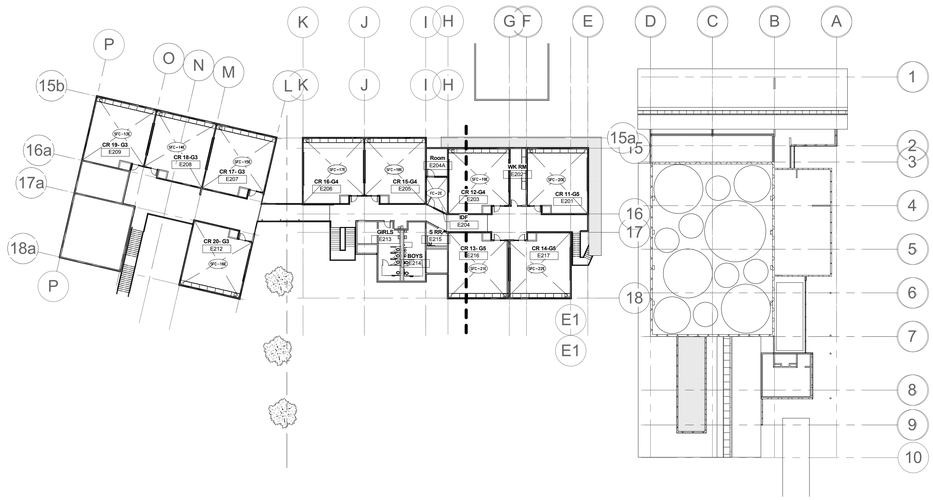



## 1 FIRST FLOOR OVERALL

SCALE: 1" = 30'-0"




## 2 SECOND FLOOR OVERALL

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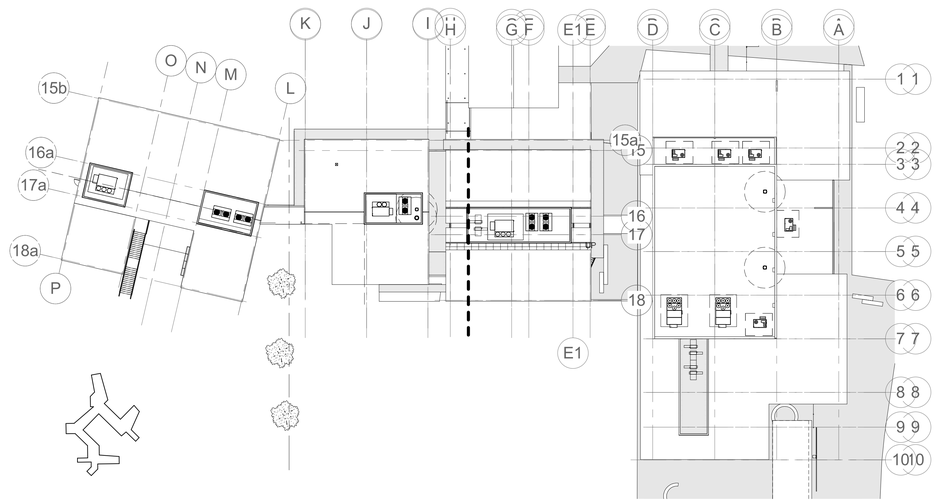

## 3 ROOF OVERALL

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**PROJECT NAME:** CLASSROOM REPLACEMENT AND NEW MPR BUILDING

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# MECHANICAL FLOOR PLAN - OVERALL PLANS BLDG. D & E


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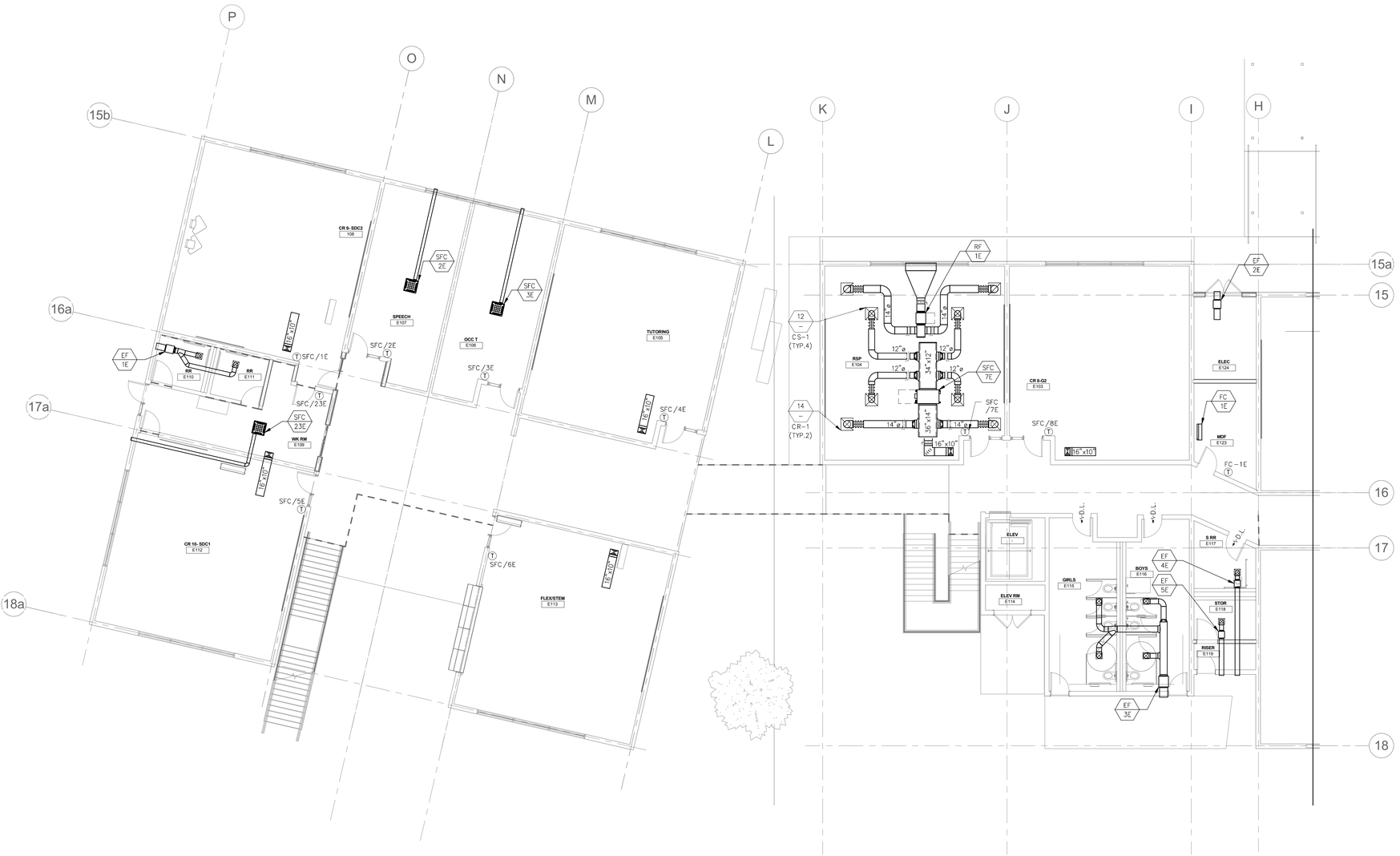


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**OWNER:** SRCS VENETIA VALLEY K-8

**PROJECT NAME:** CLASSROOM REPLACEMENT AND NEW MPR BUILDING

**CLIENT ADDRESS:** 177 N San Pedro Rd, San Rafael, CA 94903

100% DD PROGRESS SET


REGISTERED PROFESSIONAL ENGINEER LARRY SUN No. M25633 Exp. Date 09-30-19 MECHANICAL STATE OF CALIFORNIA

tk1sc COLLABORATIVE
11870 Pierce Street, Suite 160
Riverside, California 92505
951.299.4160 www.tk1sc.com
William Galarza
2017-0452


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# MECHANICAL FLOOR PLAN - LEVEL 1 E2 & E3


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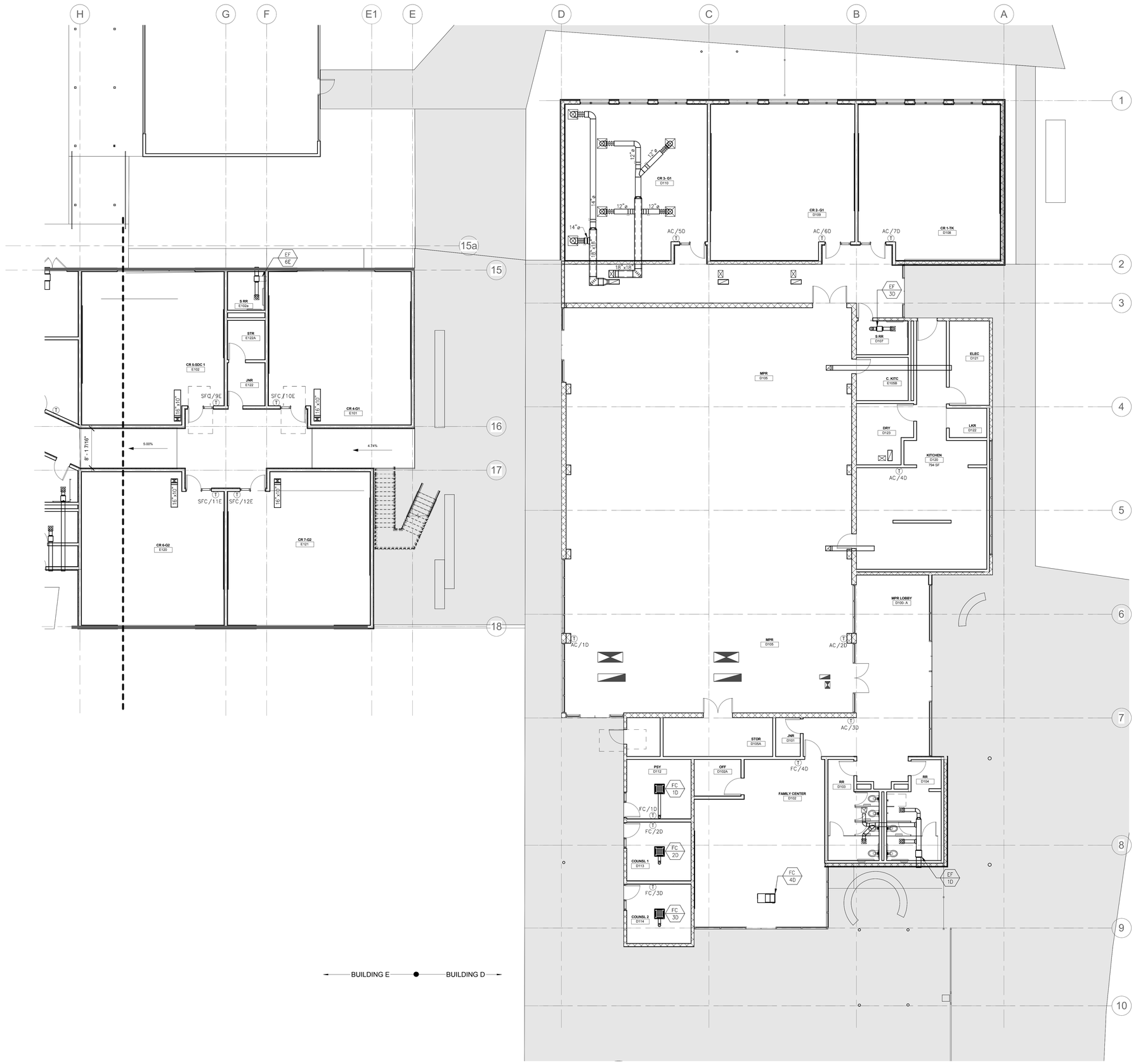


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# MECHANICAL FLOOR PLAN - LEVEL 1 D & E1


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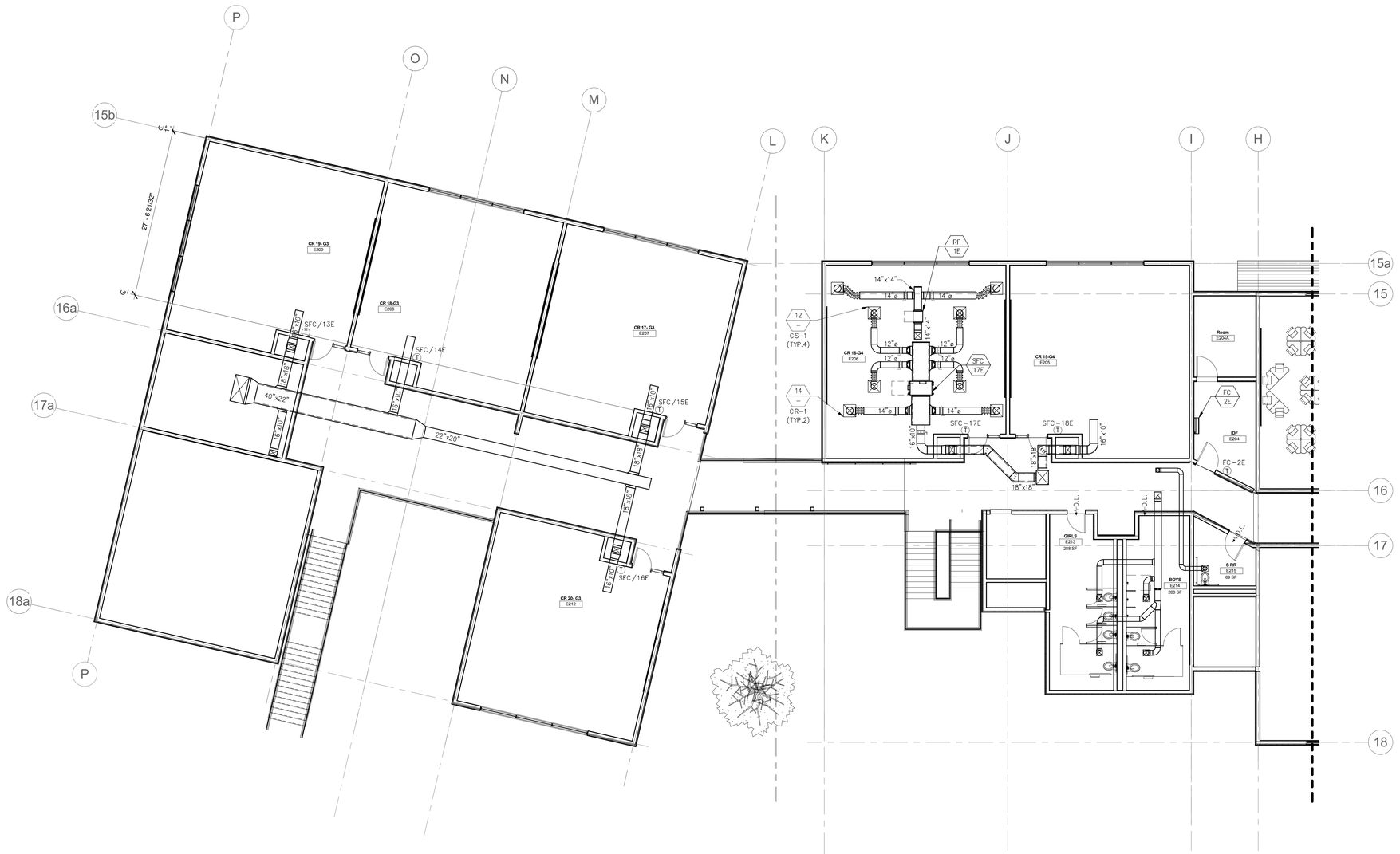


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# MECHANICAL FLOOR PLAN - LEVEL 2 E2 & E3

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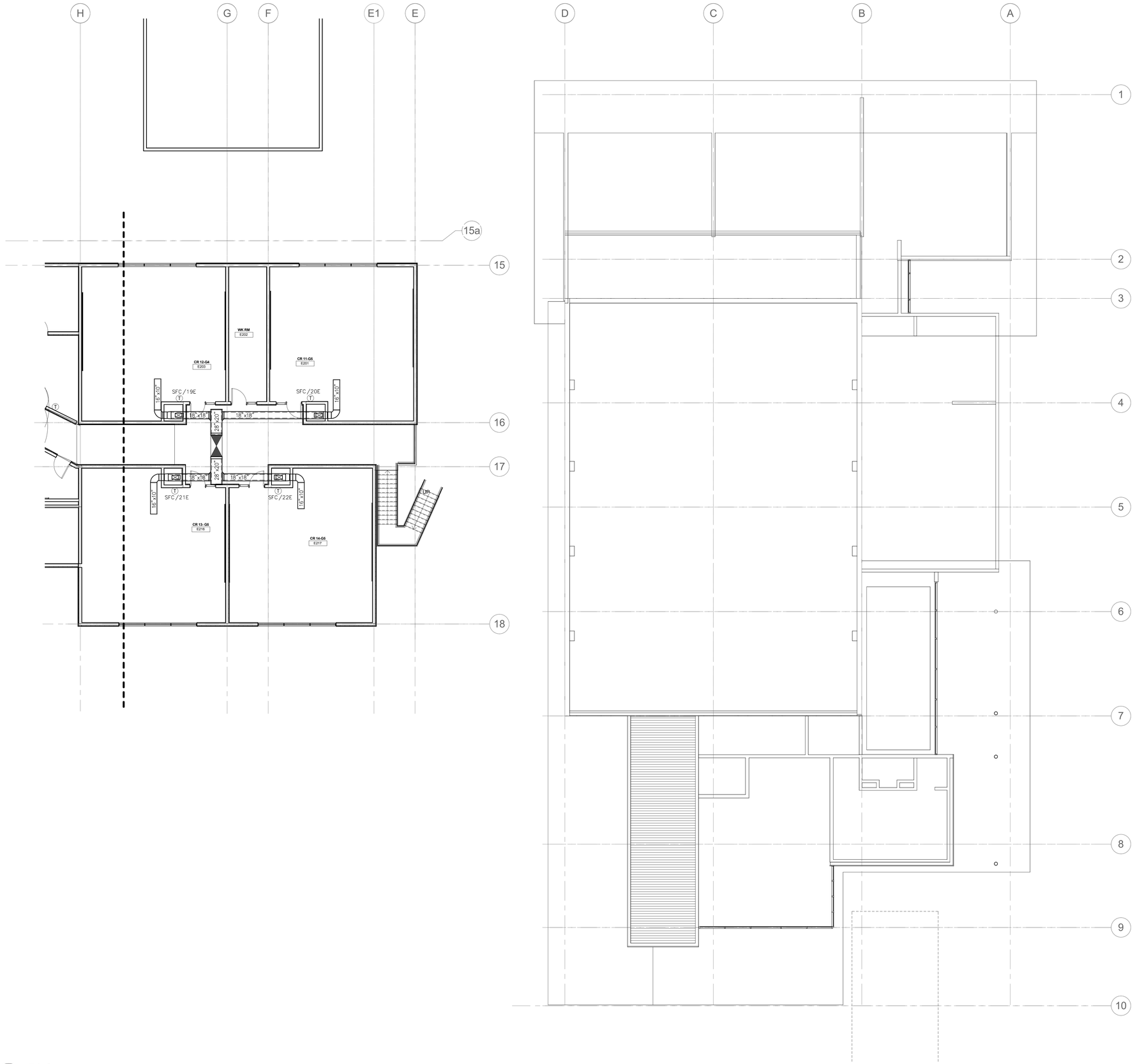


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**SHEET TITLE:**

# MECHANICAL FLOOR PLAN - LEVEL 2 D & E1


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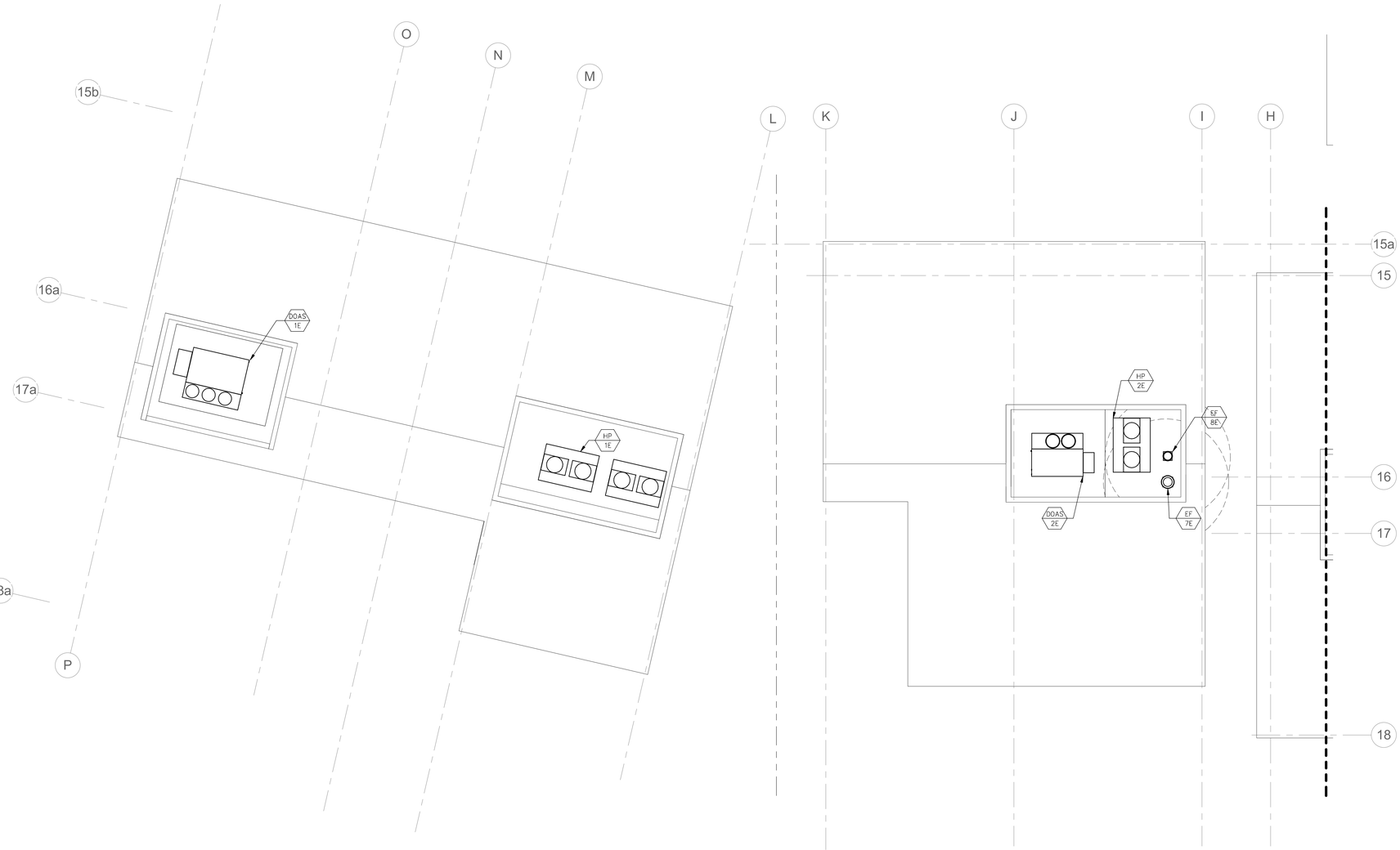


1 **E2-3**
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**PROJECT NAME:** CLASSROOM REPLACEMENT AND NEW MPR BUILDING

**CLIENT ADDRESS:** 177 N San Pedro Rd, San Rafael, CA 94903

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**SHEET TITLE:**

# MECHANICAL ROOF PLAN - E2 & E3

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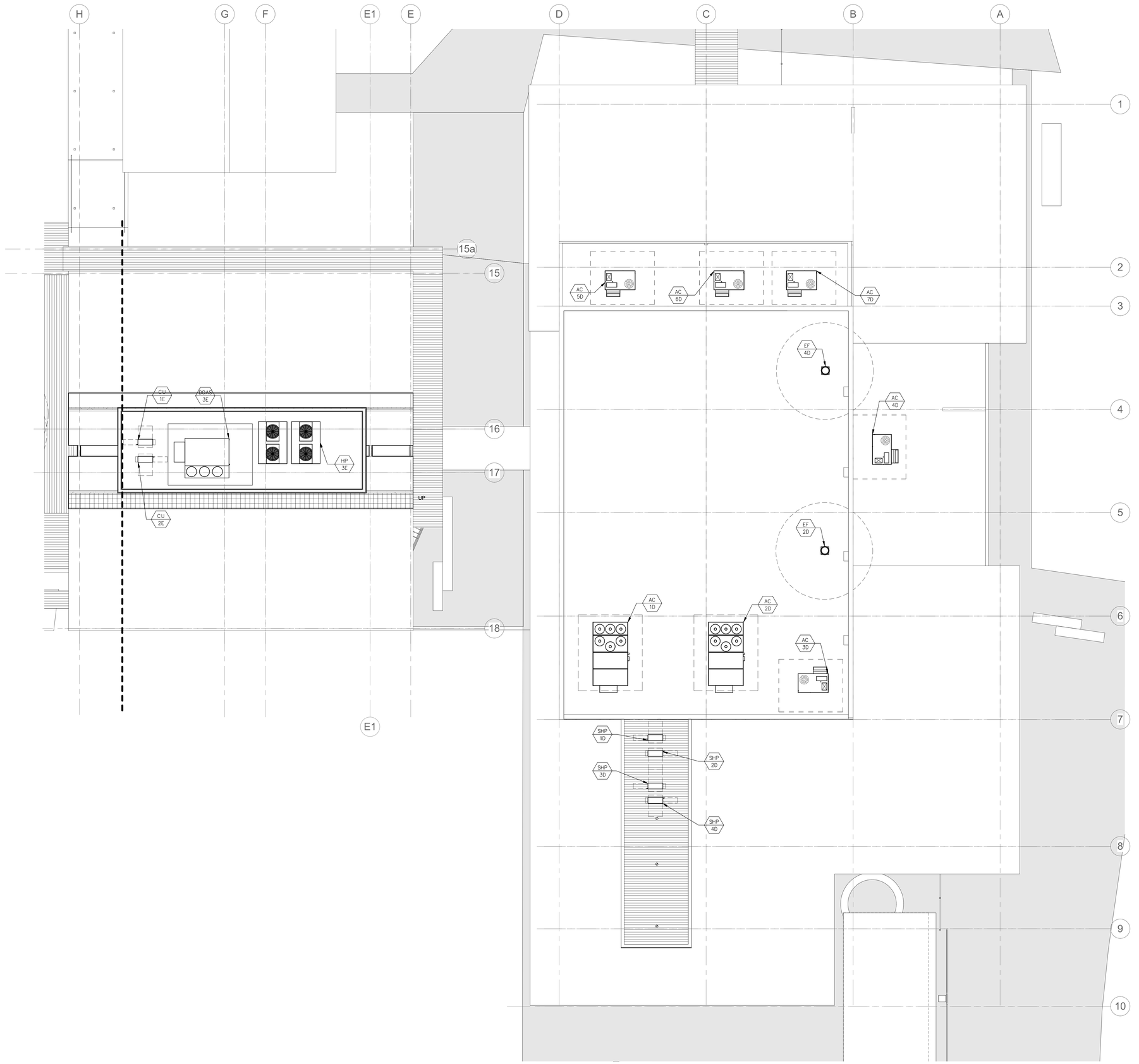


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**SHEET NUMBER:** M11.6

**SHEET TITLE:**

# MECHANICAL ROOF PLAN - D & E1

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## CALIFORNIA GREEN BUILDING STANDARD TABLE 5.303.3 STANDARDS FOR PLUMBING FIXTURES AND FIXTURE FITTINGS

### REQUIRED STANDARDS

| | |
|---|---|
| WATER CLOSETS (TOILETS) – FLUSHOMETER VALVE TYPE SINGLE FLUSH, MAXIMUM FLUSH VOLUME | ASME A 112.19.2/ CSA B45.1 – 1.28 GAL (4.8 L) |
| WATER CLOSETS (TOILETS) – FLUSHOMETER VALVE TYPE DUAL FLUSH, MAXIMUM FLUSH VOLUME | ASME A 112.19.14 AND USEPA WATERSENSE TANK – TYPE HIGH-EFFICIENCY TOILET SPECIFICATION – 1.28 GAL (4.8 L) |
| URINALS, MAXIMUM FLUSH VOLUME | ASME A 112.19.2/ CSA B45.1 – 0.5 GAL (1.9 L) |
| PUBLIC LAVATORY FAUCETS: MAXIMUM FLOW RATE – 0.5 GPM (1.9 L/ MIN) | ASME A 112.18.1/ CSA B125.1 |
| PUBLIC METERING SELF-CLOSING FAUCETS: MAXIMUM WATER USE – 0.25 GAL (1.0 L) PER METERING CYCLE | ASME A 112.18.1/ CSA B125.1 |
| SHOWERHEADS MAXIMUM FLOW RATE – 2.0 GPM | ENERGY POLICY ACT OF 1992 ASME A112.18.1 / CSA B125.1 |

## DSA ANCHORAGE & BRACING NOTES (2016)

ANCHORAGE NOTES:

ALL MECHANICAL, PLUMBING AND ELECTRICAL COMPONENTS SHALL BE ANCHORED AND INSTALLED PER THE DETAILS ON THE DSA APPROVED CONSTRUCTION DOCUMENTS. WHERE NO DETAIL IS INDICATED, THE FOLLOWING COMPONENTS SHALL BE BE ANCHORED OR BRACED TO MEET THE FORCE AND DISPLACEMENTS PRESCRIBED IN THE 2016 CBC, SECTIONS 1616A.1.18 THROUGH 1616A.1.26 AND ASCE 7-10 CHAPTERS 13, 26 AND 30.

1. ALL PERMANENT EQUIPMENT AND COMPONENTS.
2. TEMPORARY OR MOVABLE EQUIPMENT THAT IS PERMANENTLY ATTACHED (E.G. HARDWIRED) TO THE BUILDING UTILITY SERVICES SUCH AS ELECTRICITY, GAS OR WATER,
3. MOVABLE EQUIPMENT WHICH IS STATIONED IN ONE PLACE FOR MORE THAN 8 HOURS AND HEAVIER THAN 400 POUNDS OR HAS A CENTER OF MASS LOCATED 4 FEET OR MORE ABOVE THE ADJACENT FLOOR OR ROOF LEVEL THAT DIRECTLY SUPPORT THE COMPONENT ARE REQUIRED TO BE ANCHORED WITH TEMPORARY ATTACHMENTS.

THE ATTACHMENT OF THE FOLLOWING MECHANICAL AND ELECTRICAL COMPONENTS SHALL BE POSITIVELY ATTACHED TO THE STRUCTURE, BUT THE ATTACHMENT NEED NOT BE DETAILED ON THE PLANS. THESE COMPONENTS SHALL HAVE FLEXIBLE CONNECTIONS PROVIDED BETWEEN THE COMPONENT AND ASSOCIATED DUCTWORK, PIPING, AND CONDUIT.

A. COMPONENTS WEIGHING LESS THAN 40 POUNDS AND HAVE A CENTER OF MASS LOCATED 4 FEET OR LESS ABOVE THE ADJACENT FLOOR OR ROOF LEVEL THAT DIRECTLY SUPPORT THE COMPONENT.
B. COMPONENTS WEIGHING LESS THAN 20 POUNDS, OR IN THE CASE OF DISTRIBUTED SYSTEMS, LESS THAN 5 POUNDS PER FOOT, WHICH ARE SUSPENDED FROM A ROOF OR FLOOR OR HUNG FROM A WALL.

FOR THOSE ELEMENTS THAT DO NOT REQUIRE DETAILS ON THE APPROVED DRAWINGS, THE INSTALLATION SHALL BE SUBJECT TO THE APPROVAL OF THE DESIGN PROFESSIONAL IN GENERAL RESPONSIBLE CHARGE OR STRUCTURAL ENGINEER DELEGATED RESPONSIBILITY AND THE DSA DISTRICT STRUCTURAL ENGINEER. THE PROJECT INSPECTOR WILL VERIFY THAT ALL COMPONENTS AND EQUIPMENT HAVE BEEN ANCHORED IN ACCORDANCE WITH ABOVE REQUIREMENTS.

PIPING DISTRIBUTION SYSTEM BRACING NOTE:

PIPING SYSTEMS SHALL BE BRACED TO COMPLY WITH THE FORCES AND DISPLACEMENTS PRESCRIBED IN ASCE 7-10 SECTION 13.3 AS DEFINED IN ASCE 7-10 SECTION 13.3 AS DEFINED IN ASCE 7-10 SECTION 13.6.5.6, 13.6.7, 13.6.8, AND 2016 CBC, SECTIONS 1616A.1.24, 1616A.1.25 AND 1616A.1.26.

THIS METHOD OF SHOWING BRACING AND ATTACHMENTS TO THE STRUCTURE FOR THE IDENTIFIED DISTRIBUTION SYSTEM ARE AS NOTED BELOW. WHEN BRACING AND ATTACHMENTS ARE BASED ON A PRE-APPROVED INSTALLATION GUIDE (E.G., SMACNA, OR OSHPD OPM), COPIED OF THE BACING SYSTEM INSTLLATION GUIDE OR MANUAL SHALL BE AVAILABLE ON THE JOBSITE PRIOR TO THE START OF AND DURING THE HANGING AND BRACING OF THE DISTRIBUTION SYSTEMS. THE STRUCTURAL ENGINEER OF RECORD SHALL VERIFY THE ADEQUACY OF THE STRUCTURE TO SUPPORT THE HANGER AND BRACE LOADS.

PLUMBING PIPING:
☐ OPTION 1: DETAILED ON THE APPROVED DRAWINGS WITH PROJECT SPECIFIC NOTES AND DETAILS.

☐ OPTION 2: SHALL COMPLY WITH THE APPLICABLE OSHPD PRE-APPROVAL (OPM #)

☐ OPTION 3: SHALL COMPLY WITH THE SMACNA SEISMIC RESTRAINT MANUAL, OSHPD EDITION (2009), INCLUDING ANY ADDENDA. FASTENERS AND OTHER ATTACHMENTS NOT SPECIFICALLY IDENTIFIED IN THE SMACNA SEISMIC RESTRAINT MANUAL, OSHPD EDITION, ARE DETAILED ON THE APPROVED DRAWINGS WITH PROJECT SPECIFIC NOTES AND DETAILS. THE DETAILS SHALL ACCOUNT FOR THE APPLICABLE SEISMIC HAZARD LEVEL _ AND CONNECTION LEVEL _ FOR THE PROJECT AND CONDITIONS.

THE BRACING AND ATTACHMENTS TO THE STRUCTURE SHALL BE DETAILED ON THE APPROVED DRAWINGS OR THEY SHALL COMPLY WITH ONE OF THE OSHPD PRE-APPROVALS (OPM #) AS MODIFIED TO SATISFY ANCHORAGE REQUIREMENTS OF ACI 318, APPENDIX D.

COPIES OF THE MANUAL SHALL BE AVAILABLE ON THE JOBSITE PRIOR TO THE START OF HANGING AND BRACING OF OF THE PIPE DISTRIBUTION SYSTEMS.

THE STRUCTURAL ENGINEER OF RECORD SHALL VERIFY THE ADEQUACY OF THE STRUCTURE TO SUPPORT THE HANGER AND BRACE LOADS.

## PIPING MATERIALS

| | |
|---|---|
| 1. SANITARY SEWER , VENT AND STORM DRAIN PIPING BELOW GROUND : | SERVICE WEIGHT NO-HUB CAST IRON PIPE & FITTINGS CONFORMING TO THE REQUIREMENTS CISPI STANDARD 301, ASTM A 888 OR ASTM A74 WITH TYPE 304 STAINLESS STEEL HEAVY DUTY NO-HUB COUPLINGS. PROVIDE PIPE WRAP ON ALL UNDERGROUND PIPING IN ACCORDANCE WITH ANSI/AWWA STANDARDS C105 /A21.5-93. BED AND BACKFILL WITH CLEAN SAND, 6" THICK ALL AROUND PIPE. |
| 2. SOIL , WASTE VENT , STORM DRAIN PIPING ABOVE GROUND : | SERVICE WEIGHT NO-HUB CAST IRON PIPE & FITTINGS CONFORMING TO THE REQUIREMENTS OF CISPI STANDARD 301, ASTM A888 OR ASTM A74 WITH TYPE 304 STAINLESS STEEL STANDARD DUTY NO-HUB COUPLINGS. |
| 3. WATER PIPING BELOW GROUND : | TYPE 'K' COPPER WITH BRAZED JOINTS. |
| 4. WATER PIPING ABOVE GROUND : | TYPE 'L' COPPER WITH LEAD-FREE SOLDERED JOINTS. |
| 5. GAS PIPING : | SCHEDULE 40 BLACK STEEL WITH MALLEABLE IRON SCREWED OR WELDED JOINTS. |
| 6. GAS PIPING BELOW GROUND: | DRISCOPLEX PE2406 POLYETHYLENE PIPING SYSTEMS WITH ELECTRIC FUSION SOCKET JOINTS. PROVIDE #12 ELECTRIC TRACER COPPER WIRE, SPIRAL WRAPPED AROUND PIPE. UNDERGROUND STEEL PIPING AND FITTINGS SHALL BE AS FOR ABOVE GROUND. PIPING SHALL BE WRAPPED AND CATHODICALLY PROTECTED PER THE SOILS ENGINEER DIRECTION. |
| 7. CONDENSATE DRAIN PIPING : | TYPE 'M' COPPER WITH SOLDERED JOINTS. |
| 8. INSULATION OF DOMESTIC HOT WATER SUPPLY AND HOT WATER RETURN PIPING : | GLASS FIBER PIPE INSULATION WITH FACTORY APPLIED WHITE JACKET, J-M MICRO-LOK 650AP, 1" THICK FOR PIPE SIZES OF 1/2" TO 1"., AND 1 1/2" THICK FOR PIPE SIZES TO 1 1/4" AND LARGER. INSULATE FITTINGS AND VALVES W/ PREFORMED INSULATION WITH PVC PREMOLDED ONE PIECE FITTING COVER BY J.M. ZESTON. ADHERE LONGITUDINAL LAPS AND BUTTS OF STRIPS OF JACKET W/ FACTORY APPLIED PRESSURE SENSITIVE TAPE SYSTEM, J-M AP-T. FLANGES AND UNIONS SHALL NOT BE COVERED. |
| 9. INSULATION OF INTERIOR CONDENSATE DRAIN PIPING : | AP ARMFLEX CLOSED-CELL ELASTOMERIC FOAM INSULATION. FLAME-SPREAD INDEX OF 25 OR LESS AND SMOKE-DEVELOPED INDEX OF 50 OR LESS. 1/2 INCH THICK FOR 4 INCH DIAMETER PIPE AND LESS. |

10. ALL OF THE ABOVE SHALL COMPLY WITH THE SPECIFICATIONS.

NOTE:
ALL PIPE, FITTINGS, FIXTURES, ETC. THAT CONTACT POTABLE WATER FOR HUMAN CONSUMPTION SHALL SHOW APPROVAL TO NSF 61, ANNEX "G". EFFECTIVE JANUARY 1, 2010, THE LEAD CONTENT OF THE WETTED SURFACE AREA OF THE PIPES, FITTINGS AND FIXTURES CONVEYING POTABLE WATER FOR HUMAN CONSUMPTION, OF NOT MORE THAN 0.25% SHALL BE DETERMINED PURSUANT TO A PRESCRIBED FORMULA AS DETERMINED BY THIRD PARTY CERTIFIERS TO NSF STANDARD 61, ANNEX "G". REFERENCE SECTION 604.10, CALIFORNIA PLUMBING CODE, 2010 EDITION, AND HEALTH & SAFETY CODE SECTION 116875.

| APPLICABLE | TITLE 24 MANDATORY MEASURES |
|---|---|
| | EQUIPMENT AND SYSTEMS EFFICIENCY |
| ☒ | ANY APPLIANCE FOR WHICH THERE IS A CALIFORNIA STANDARD ESTABLISHED IN THE APPLIANCE EFFICIENCY STANDARDS MAY BE INSTALLED ONLY IF THE MANUFACTURER HAS CERTIFIED TO THE COMMISSION, AS SPECIFIED IN THOSE REGULATIONS , THAT THE APPLIANCE COMPLIES WITH THE APPLICABLE STANDARD FOR THAT APPLIANCE . |
| ☒ | PIPING SYSTEMS SHALL BE INSULATED IN ACCORDANCE WITH REQUIREMENTS OF THE TITLE 24 STANDARDS AND ALL CODES HAVING THE JURISDICTION . |
| | SERVICE WATER HEATING SYSTEMS |
| ☐ | THE FOLLOWING SERVICE WATER HEATING SYSTEMS AND EQUIPMENT MAY BE INSTALLED ONLY IF THE MANUFACTURER HAS CERTIFIED THAT THE EQUIPMENT MEETS OR EXCEEDS ALL APPLICABLE EFFICIENCY REQUIREMENTS LISTED IN 113 OF THE ENERGY EFFICIENCY STANDARDS : GAS-FIRED NON-STORAGE TYPES >200,000 BTU/HR . |
| ☐ | UNFIRED SERVICE WATER HEATER STORAGE TANKS AND BACKUP TANKS FOR SOLAR WATER HEATING SYSTEMS SHALL HAVE EITHER : EXTERNAL INSULATION WITH AN INSTALLED R-VALUE OF AT LEAST R-12 , INTERNAL AND EXTERNAL INSULATION WITH A COMBINED R-VALUE OF AT LEAST R-16 , OR SUFFICIENT INSULATION SO THAT THE HEAT LOSS OF THE TANK SURFACE BASED ON AN 80° F WATER-AIR TEMPERATURE DIFFERENCE SHALL SHALL BE LESS THAN 6.5 BTU / HR / SF . |
| ☒ | IF A CIRCULATING HOT WATER SYSTEM IS INSTALLED , IT SHALL HAVE A CONTROL CAPABLE OF AUTOMATICALLY TURNING OFF THE CIRCULATING PUMP(S) WHEN HOT WATER IS NOT REQUIRED . |
| ☒ | LAVATORIES IN RESTROOMS OF PUBLIC FACILITIES SHALL BE EQUIPPED WITH : |
| ☒ | OUTLET DEVICES THAT LIMIT THE FLOW OF HOT WATER TO A MAXIMUM OF 0.5 GALLONS PER MINUTE . |
| ☐ | FOOT ACTUATED CONTROL VALVES , AND OUTLET DEVICES THAT LIMIT THE FLOW OF HOT WATER TO A MAXIMUM OF 0.75 GALLONS PER MINUTE . |
| ☒ | LAVATORIES IN RESTROOM OF PUBLIC FACILITIES SHALL BE EQUIPPED WITH CONTROLS TO LIMIT THE OUTLET TEMPERATURE TO 110° F. PROVIDE WITH WATTS #LFMMV |

## PLUMBING GENERAL NOTES

1. SEE ARCHITECTURAL DRAWINGS FOR EXACT LOCATION OF ALL PLUMBING FIXTURES, DRAINS AND EQUIPMENT.
2. COORDINATE ALL LOCATIONS, SIZES AND ELEVATIONS OF ALL SLEEVES THROUGH BEAMS, SLABS AND FOOTINGS WITH STRUCTURAL AND ARCHITECTURAL DRAWINGS.
3. ALL HORIZONTAL WASTE LINES SHALL BE RUN AT A MINIMUM SLOPE OF 1/4" PER FOOT UNLESS OTHERWISE NOTED ON PLAN.
4. ALL HORIZONTAL STORM DRAINS AND OVERFLOW DRAIN LINES SHALL BE RUN AT A SLOPE OF 1/8" PER FOOT UNLESS OTHERWISE NOTED ON PLAN.
5. COORDINATE AND VERIFY EXACT LOCATION, SIZE, POINTS OF CONNECTION AND INVERT ELEVATIONS OF UTILITY SERVICE PIPING BEFORE TRENCHING OR INSTALLATION.
6. COORDINATE WITH ARCHITECTURAL DRAWINGS FOR WALL AND PARTITION CONSTRUCTION AND THICKNESS WHERE PLUMBING PIPING OR EQUIPMENT IS INDICATED.
7. THE LOCATION AND ELEVATION OF ALL PLUMBING PIPING SHALL BE VERIFIED AND COORDINATED WITH ALL OTHER TRADES, STRUCTURAL CONDITIONS AND BUILDING CONSTRUCTION PRIOR TO START OF INSTALLATION.
8. ALL VALVES AND COCKS SHALL BE LOCATED TO BE READILY ACCESSIBLE. WHERE VALVES ARE INSTALLED WITHIN OR BEHIND WALLS, PARTITIONS OR CEILINGS, AN ACCESS PANEL SHALL BE INSTALLED.
9. ALL OUTLETS FOR FUTURE CONNECTIONS SHALL BE INSTALLED SO AS TO PERMIT EASY CONNECTION – COORDINATE WITH DUCT WORK, STRUCTURAL CONDITIONS AND ARCHITECTURAL LAYOUT.
10. ALL PLUGGED OR CAPPED WASTE OUTLETS FOR FUTURE CONNECTIONS SHALL BE INSTALLED ABOVE CEILING WITH PIPE INVERT +4 INCHES ABOVE THE CEILING.
11. ALL PLUGGED OR CAPPED VENT OUTLETS FOR FUTURE CONNECTIONS SHALL BE INSTALLED ABOVE CEILING WITH PIPE INVERT 12" FROM BOTTOM OF SLAB.
12. SEE RISER DIAGRAMS FOR ALL PIPE SIZING FOR ALL PLUMBING SYSTEMS.
13. FIRE PROTECTION PIPING AND EQUIPMENT SHOWN IS FOR REFERENCE ONLY. FOR FIRE PROTECTION PIPING SEE FIRE SPRINKLER SHOP DRAWINGS. FIRE SPRINKLER DESIGN/BUILD CONTRACTOR SHALL COORDINATE HIS WORK DURING SHOP DRAWING PHASE, WITH ROOF DRAINS AND LINES AS SHOWN AND SHALL MAKE PROVISIONS FOR FUTURE DUCTWORK AND FINISHED CEILINGS.
14. FIRE RISERS SUBJECT TO FIRE AUTHORITY APPROVAL.
15. ALL WALL MOUNTED ACCESS PANELS AND WALL CLEANOUTS SHALL BE MOUNTED AS LOW AS POSSIBLE UNLESS NOTED OTHERWISE OR AS INDICATED IN ARCHITECTURAL PLANS OR AS REQUIRED. CONTRACTOR SHALL GET ARCHITECT AND ENGINEER APPROVAL FOR ALL LOCATIONS PRIOR TO INSTALLATION OF WALL GYPSUM BOARD.
16. THESE DRAWINGS ARE DIAGRAMMATIC . THE LOCATION & ELEVATION OF ALL PLUMBING PIPING IS APPROXIMATE AND SHALL BE VERIFIED AND COORDINATED WITH ALL OTHER TRADES, STRUCTURAL CONDITIONS AND BUILDING CONSTRUCTION PRIOR TO START OF INSTALLATION.
17. PENETRATIONS OF PIPES, ETC , IN WALLS REQUIRING PROTECTED OPENINGS SHALL BE FIRE STOPPED. FIRE STOP MATERIAL SHALL BE A TESTED ASSEMBLY APPROVED BY THE STATE FIRE MARSHAL.
18. ALL HOT AND COLD WATER PIPE SHALL BE INSULATED INCLUDING PIPING IN THE WALLS.
    WATER SUPPLY AND DRAIN PIPES UNDER LAVATORIES AND SINKS SHALL BE INSULATED OR OTHERWISE CONFIGURED TO PROTECT AGAINST CONTACT. THERE SHALL BE NO SHARP OR ABRASIVE SURFACES UNDER LAVATORIES AND SINKS.
19. ALL REQUIRED CLEANOUTS SHALL BE INSTALLED AS PER SECTION 707.0 OF THE PLUMBING CODE.
20. ROOF DRAIN AND OVERFLOW PIPING WITHIN THE BUILDING SHALL UTILIZE APPROVED DRAINAGE FITTINGS.
21. CLEANOUTS FOR BUILDING STORM DRAINS SHALL COMPLY WITH THE REQUIREMENTS OF SECTION 719.0 OF THE PLUMBING CODE.
22. NEW BUILDING STORM DRAINAGE SYSTEM AND PARTS OF EXISTING SYSTEMS THAT HAVE BEEN ALTERED, EXTENDED OR REPAIRED SHALL BE TESTED AS DESCRIBED IN SECTION 1109.0 OF THE PLUMBING CODE.
23. DIELECTRIC UNIONS SHALL BE USED AT ALL POINTS OF CONNECTION WHERE THERE IS A DISSIMILARITY OF METALS.
24. ALL VENTS THROUGH ROOF SHALL MAINTAIN A MINIMUM OF 25 FT. CLEARANCE AND 3 FEET ABOVE OF ANY WINDOW, DOOR, OPENING, AIR INTAKE OR VENT SHAFT. (FOR NON-OSHPD-3 BLDGS.
25. HOT WATER TEMPERATURE LIMITATION DEVICE SHALL BE INSTALLED FOR PUBLIC LAVATORIES, SHOWERS & TUBS (WHIRLPOOL) IN ACCORDANCE WITH ASSE 1070 & 1069, RESPECTIVELY.

## LEGEND

| SYMBOL | ABBR. | DESCRIPTION |
|---|---|---|
| | S OR W | SOIL OR WASTE ABOVE FLOOR OR GRADE |
| | S OR W | SOIL OR WASTE BELOW FLOOR OR GRADE |
| AW | AW | ACID WASTE ABOVE FLOOR OR GRADE |
| AW | AW | ACID WASTE BELOW FLOOR OR GRADE |
| SD | SD | STORM DRAIN ABOVE FLOOR OR GRADE |
| SD | SD | STORM DRAIN BELOW FLOOR OR GRADE |
| OD | OD | OVERFLOW DRAIN ABOVE FLOOR OR GRADE |
| OD | OD | OVERFLOW DRAIN BELOW FLOOR OR GRADE |
| | V | SANITARY VENT |
| | CW | COLD WATER |
| ICW | ICW | INDUSTRIAL COLD WATER |
| | HW | HOT WATER |
| | HWR | HOT WATER RETURN |
| F | F | FIRE MAIN |
| D | D | INDIRECT DRAIN LINE |
| CD | CD | CONDENSATE DRAIN |
| SCD | SCD | SECONDARY CONDENSATE DRAIN |
| PCD | PCD | PUMPED CONDENSATE DRAIN |
| | | |
| G | G | FUEL GAS |
| MG | MG | MEDIUM PRESSURE FUEL GAS, 5 PSI |
| TP | TP | TRAP PRIMER |
| RTP | RTP | RECYCLED WATER TRAP PRIMER |
| | | DIRECTION OF FLOW |
| | P.G. | PRESSURE GAUGE W/PETE COCK |
| | G.C. | GAS COCK |
| | P.R.V. | PRESSURE REDUCING VALVE |
| | G.V. | GATE VALVE |
| | L.B.V. | LOCKING BALL VALVE |
| | FCO | FLOOR CLEANOUT |
| | WCO | WALL CLEANOUT |
| | | DOWN |
| | | RISE |
| | | UNION |
| | | SLOPE IN DIRECTION OF FLOW |
| | W.H.A. | WATER HAMMER ARRESTOR |
| | P.O.C. | POINT OF CONNECTION |
| | RPBP | REDUCED PRESSURE BACKFLOW PREVENTER |
| (E) | EXIST. (E) | EXISTING |
| | ABV. | ABOVE |
| | A.F.F. | ABOVE FINISHED FLOOR |
| | A.P. | ACCESS PANEL |
| | ASS'Y | ASSEMBLY |
| | BEH. | BEHIND |
| | BEL. | BELOW |
| | BLDG. | BUILDING |
| | BMCS | BUILDING MANAGEMENT AND CONTROL SYSTEM |
| | C.I. | CAST IRON |
| | CLG. | CEILING |
| | COTG | CLEANOUT TO GRADE |
| | CO. | CLEAN OUT |
| | CONT. | CONTINUATION |
| | FFE | FINISHED FLOOR ELEVATION |
| | DET. | DETAIL |
| | DN | DOWN |
| | DWG'S | DRAWINGS |
| | EA | EACH |
| | ELEC. | ELECTRIC |
| | EQUIP | EQUIPMENT |
| | FH | FIRE HYDRANT |
| | FIN | FINISHED |
| | FU | FIXTURE UNIT |
| | FLR | FLOOR |
| | FR. | FROM |
| | GPF | GALLONS PER FLUSH |
| | GPM | GALLONS PER MINUTE |
| | GR | GRADE |
| | HDR | HEADER |
| | I.E. | INVERT ELEVATION |
| | MECH | MECHANICAL |
| | TYP | TYPICAL |
| | VTR | VENT THROUGH ROOF |
| | W/ | WITH |

OWNER: SRCS VENETIA VALLEY K-8

PROJECT NAME: CLASSROOM REPLACEMENT AND NEW MPR BUILDING

CLIENT ADDRESS: 177 N San Pedro Rd, San Rafael, CA 94903

100% DD PROGRESS SET


REGISTERED PROFESSIONAL ENGINEER LARRY SUN No. M25633 EXP 09-30-18 MECHANICAL STATE OF CALIFORNIA

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# LEGENDS, SYMBOLS AND NOTES


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## WATER HEATER SIZING (BLDG D)

BLDG TYPE: SCHOOL DELTA T: 60°F DEMAND FACTOR: 0.40 STORAGE CAPACITY FACTOR: 1.0

| FIXTURE | QTY | GPH | TOTAL GPH |
|---|---|---|---|
| PUB LAV | 6 | 15 | 90 |
| SVC.SINK | 1 | 20 | 20 |
| | | | |
| | | | |
| | | | |
| TOTAL DEMAND | | | 110 |

CALCULATION:
GPH x DF x SCF = PROB MAX DEMAND
215 x 0.40 x 1 = 86 GAL

BTUH (INPUT) DEMAND:
GPH x 8.33 x TEMP. RISE / % EFFICIENCY = BTUH DEMAND
86 x 8.33 x 60 (42,982) / 90% = 47,758 BTUH

## WATER HEATER SIZING (BLDG E)

BLDG TYPE: SCHOOL DELTA T: 60°F DEMAND FACTOR: 0.40 STORAGE CAPACITY FACTOR: 1.0

| FIXTURE | QTY | GPH | TOTAL GPH |
|---|---|---|---|
| PUB LAV | 12 | 15 | 180 |
| SINK | 4 | 10 | 40 |
| | | | |
| SVC.SINK | 1 | 20 | 20 |
| | | | |
| TOTAL DEMAND | | | 240 |

CALCULATION:
GPH x DF x SCF = PROB MAX DEMAND
1920 x 0.40 x 1 = 768 GAL

BTUH (INPUT) DEMAND:
GPH x 8.33 x TEMP. RISE / % EFFICIENCY = BTUH DEMAND
768 x 8.33 x 60 (524,790) / 90% = 26,496 BTUH

## GAS WATER HEATER

| UNIT NO. | MANUFACTURER & MODEL NO. | NO. | LOCATION | SERVICE | REC @ 60° ΔT (GPH) | INLET TEMP °F | OUTLET TEMP °F | GAS INPUT (CFH) | EFFICIENCY | OPER. WT. LBS. | REMARKS |
|---|---|---|---|---|---|---|---|---|---|---|---|
| GWH 1 | AO SMITH AO SMITH #BTH-400 | 1 | ON CONCRETE PAD | DOMESTIC HOT WATER | 400 | 60 | 120 | 400 | 95% | 2200 | 120V / SINGLE PHASE / 20 AMPS 119 GAL STORAGE. DIMS: 34" DIA x 76" HT |
| GWH 2 | AO SMITH AO SMITH #BTX-80 | 1 | ON CONCRETE PAD | DOMESTIC HOT WATER | – | 60 | 120 | 76 | 90% | 800 | 120V / SINGLE PHASE / 20 AMPS 50 GAL STORAGE. DIMS: 22" DIA x 72" HT |
| | | | | | | | | | | | |

## CIRCULATING PUMP

| UNIT NO. | MANUFACTURER & MODEL NO. | LOCATION | SERVICE | TYPE | GPM | TDH FT | MOTOR | | | | | OPER. WT. LBS. | REMARKS |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | | | | | | | HP | RPM | V | PH | HZ | | |
| CP-1 | B & G SERIES 100 | ROOF ON CONCRETE PAD | DOMESTIC HOT WATER | IN-LINE | 10 | 10 | 1/12 | 1750 | 120 | 1 | 60 | 20 | ALL BRONZE WH 7-DAY TIMECLOCK |

## GAS PRESSURE REGULATOR

| UNIT NO. | MANUFACTURER & MODEL NO. | LOCATION | REMARKS |
|---|---|---|---|
| GPR 1 | AMERICAN METERS | ROOF | REDUCE PRESSURE FROM 5 PSI TO 8" WATER COLUMN; TOTAL LOAD>2,000 CFH |

## NATURAL GAS LOAD CALCULATION

| EQUIPMENT | LOAD (CFH) | HVAC LOAD | SUB. TOTAL (CFH) | LOCATION |
|---|---|---|---|---|
| GWH-1 | 400 | 722 | 1122 | - |
| GWH-2 | 76 | 1900 | 1976 | - |
| | | | | |
| | | | | |
| | | TOTAL = | 4268 CFH | |

## GAS SIZING CHART

| (MPG) MEDIUM PRESSURE 5 PSI @ TDL = 2000 FT | | | | | | | | |
|---|---|---|---|---|---|---|---|---|
| PIPE SIZE | 1/2" | 3/4" | 1" | 1-1/4" | 1-1/2" | 2" | 2-1/2" | 3" |
| CFH | 181 | 379 | 714 | 1470 | 2200 | 4230 | 6740 | 11900 |
| LOW PRESSURE 8" w.c. @ TDL = 2000 FT | | | | | | | | |
| PIPE SIZE | 1/2" | 3/4" | 1" | 1-1/4" | 1-1/2" | 2" | 2-1/2" | 3" |
| CFH | - | 20 | 39 | 79 | 119 | 229 | 364 | 644 |

*EXISTING ON-SITE GAS PIPING IS ASSUMED TO BE AT 5 PSI
POINT OF CONNECTION AT NEAR PROXIMITY OF THE BUILDING PER 'AS-BUILT' DRAWINGS

## PIPING MATERIALS

| | MATERIAL: ABOVE GRADE | MATERIAL: BELOW GRADE | CONNECTION TYPE: NO-HUB CAST IRON | NU-HUB COUPLING | DWV ABS | SOLVENT CEMENTED | DWV COPPER | SOLDERED, LEAD FREE | TYPE L COPPER | SOLDERED | TYPE K COPPER | BRAZED | TYPE M COPPER | SCREWED | SCHEDULE 40 BLACK STEEL | WELDED | POLYETHYLENE | ELECTRIC SOCKET FUSION | ORION POLYPROPYLENE | UNDERGROUND WRAP | INSULATION | NOTES |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| SANITARY SEWER | • | | • | • | • | • | | • | | | | | | | | | | | | | • | |
| ACID WASTE | | • | • | • | • | • | | | | | | | | | | | • | | | | • | |
| VENT | • | | | | | • | | | | | | | | | | | | | | | | |
| STORM DRAIN | • | | | | | • | | | | | | | | | | | | | | | • | |
| | | • | | | | • | | | | | | | | | | | | | | | • | |
| DOMESTIC COLD WATER | • | | | | | | • | • | | | | | | | | | | | | | | |
| | | • | | | | | | | • | • | | | | | | | | | | | • | |
| DOMESTIC HOT WATER | • | | | | | | • | • | | | | | | | | | | | | | • | • |
| | | • | | | | | | | • | • | | | | | | | | | | | • | • |
| INDUSTRIAL WATER | • | | | | | | • | • | | | | | | | | | | | | | | |
| CONDENSATE DRAIN | • | | | | | | | | | | | | | | • | • | | | | | • | |
| INDIRECT DRAIN | • | | | | | | | | | | | | | | • | • | | | | | | |
| FUEL GAS | • | | | | | | | | | | | | | | | | | | | | | |
| | | • | | | | | | | | | | | | | | | | | | | | W/TRACER WIRE |

ALL OF THE ABOVE SHALL COMPLY WITH THE SPECIFICATIONS
ALL PIPING BELOW SLAB OR GRADE SHALL BE CORROSION PROTECTED PER SPECIFICATIONS

NOTE:
ALL PIPE, FITTINGS, FIXTURES, ETC. THAT CONTACT POTABLE WATER FOR HUMAN CONSUMPTION SHALL SHOW APPROVAL TO NSF 61, ANNEX "G". EFFECTIVE JANUARY 1, 2010, THE LEAD CONTENT OF THE WETTED SURFACE AREA OF THE PIPES, FITTINGS AND FIXTURES CONVEYING POTABLE WATER FOR HUMAN CONSUMPTION, OF NOT MORE THAN 0.25% SHALL BE DETERMINED PURSUANT TO A PRESCRIBED FORMULA AS DETERMINED BY THIRD PARTY CERTIFIERS TO NSF STANDARD 61, ANNEX "G". REFERENCE SECTION 604.10, CALIFORNIA PLUMBING CODE, 2010 EDITION, AND HEALTH & SAFETY CODE SECTION 116875.

## WATER SYSTEM CALCULATION

AVAILABLE PRESSURE AT BLDG EXTERIOR = -- P.S.I.

TOTAL FIXTURE UNITS:
BLDG D (MPR): 133 FU, 76GPM
BLDG E (CLASSROOM): 155 FU, 82 GPM

| LOSSES: | | BLDG D | BLDG E |
|---|---|---|---|
| (E) 4" METER @ 1200 GPM | = -- P.S.I. | N/A | N/A |
| 4" RPBP @ 1200 GPM | = -- P.S.I. | N/A | N/A |
| STATIC LOSS ( .433 X -- FT.) | = -- P.S.I. | @30' = 12.9 | @30' = 12.9 |
| RESIDUAL FIXTURE | = 25 P.S.I. | 30 PSI | 30 PSI |
| TOTAL | = --- P.S.I. | 29 P.S.I. | 29 P.S.I. |

PRESSURE AVAILABLE FOR FRICTION LOSS: -- PSI - 30 PSI = --.0 P.S.I.

SYSTEM EQUIVALENT LENGTH: (METER TO RESIDUAL FIXTURE) = 450 + 25% = 562.5 FT.

ALLOWABLE AVERAGE LOSS DUE TO FRICTION PER 100 FT. OF PIPE: --.0 PSI / 562.5 FT. X 100 FT. = --.- PSI/100 FT.

COLD WATER SYSTEM SIZING IS BASED ON 3 PSI /100' OR 8 FT. PER SECOND MAXIMUM VELOCITY, WHICHEVER RESTRICTION IS GREATER.

HOT WATER SYSTEM SIZING IS BASED ON 3 PSI /100' OR 5 FT. PER SECOND MAXIMUM VELOCITY, WHICHEVER RESTRICTION IS GREATER.

NOTE:
DOMESTIC HOT AND COLD WATER PIPE SIZING IS IN ACCORDANCE WITH THE REQUIREMENTS OF THE 2013 CALIFORNIA PLUMBING CODE, APPENDIX "A"

## DOMESTIC WATER PIPE SIZING SCHEDULE

(BASED ON 3 PSI/100 FT. OR MAX. VELOCITY OF 8 FPS COLD & 5 FPS HOT)

| SIZE | MAXIMUM FIXTURE UNITS: FLUSH TANK HW | FLUSH TANK CW | FLUSH VALVE | VELOCITY (FT./SEC.) HW | VELOCITY (FT./SEC.) CW | G.P.M. HW | G.P.M. CW |
|---|---|---|---|---|---|---|---|
| ½" | 1 | 1 | 0 | 2.6 | 2.6 | 1.9 | 1.9 |
| ¾" | 6 | 6 | 0 | 3.2 | 3.2 | 4.9 | 4.9 |
| 1" | 13 | 13 | 0 | 3.9 | 3.9 | 10 | 10 |
| 1¼" | 24 | 24 | 0 | 4.4 | 4.4 | 17.4 | 17.4 |
| 1½" | 47 | 47 | 10 | 4.9 | 4.9 | 27 | 27 |
| 2" | 120 | 158 | 64 | 5.0 | 5.9 | 48 | 56.5 |
| 2½" | 246 | 380 | 245 | 5.0 | 6.7 | 71 | 100 |
| 3" | 412 | 691 | 630 | 5.0 | 7.5 | 105 | 160 |

## STORM DRAIN SIZING

2016 CPC, TABLE 1101.7 CITY OF SAN RAFAEL RAINFALL RATE: 2" PER HOUR

| SIZE | SQUARE FOOTAGE: 1/8" PER FOOT SLOPE GPM | 1/8" PER FOOT SLOPE SF | 1/4" PER FOOT SLOPE GPM | 1/4" PER FOOT SLOPE SF |
|---|---|---|---|---|
| 3" | 34 | 1,096 | 48 | 1,546 |
| 4" | 78 | 2,506 | 110 | 3,533 |
| 5" | 139 | 4,453 | 196 | 6,293 |
| 6" | 222 | 7,133 | 314 | 10,066 |
| 8" | 478 | 15,330 | 677 | 21,733 |
| 10" | 860 | 27,600 | 1214 | 38,950 |
| 12" | 1384 | 44,400 | 1953 | 62,600 |

HORIZONTAL RUN IS SIZED AT 1% UNLESS OTHERWISE NOTED.

## PLUMBING FIXTURE SCHEDULE

| UNIT NO. | DESCRIPTION | ROUGH-IN SIZES: TRAP | W | V | CW | HW | REMARKS |
|---|---|---|---|---|---|---|---|
| WC-1 | WATER CLOSET A.S. MADERA #3043.001 | INT. | 4" | 2" | 1" | – | FLOOR MOUNTED, 1.28 GPF MANUAL-OPERATED FLUSH VALVE SLOAN #111-1.28 W/ OLSONITE TOILET SEAT #955SCT |
| WC-2 | WATER CLOSET (ACCESSIBLE) A.S. AFWALL #3043.001 | INT. | 4" | 2" | 1" | – | SAME AS WC-1 FOR ACCESSIBLE TYPE (CBC/ADA); REFER TO ARCH PLANS. |
| | | | | | | | |
| U-1 | URINAL A.S. WASHBROOK #6590.001 | INT. | 2" | 1-1/2" | 3/4" | – | WALL-HUNG, 0.125 GPF MANUAL OPERATED FLUSH VALVE SLOAN #186-0.125 WITH JR SMITH 0636 SERIES |
| U-2 | URINAL (ACCESSIBLE) A.S. WASHBROOK #6590.001 | INT. | 2" | 1-1/2" | 3/4" | – | SAME AS U-1 EXCEPT MOUNTED AT ACCESSIBLE HEIGHT (CBC/ADA); REFER TO ARCH. |
| | | | | | | | |
| L-1 | LAVATORY (ACCESSIBLE) A.S. LUCERNE #0356.421 | 2" | 2" | 1-1/2" | 1/2" | – | WALL-HUNG, WITH MANUAL FAUCET AT 0.35 GPM CHICAGO #333-665E39PSHABCP #1017 MOUNT AT ACCESSIBLE HEIGHT (CBC/ADA). REFER TO ARCH TO MOUNTING HEIGHT. PROVIDE WITH MCGUIRE SUPPLY & DRAIN PROWRAP. |
| L-2 | LAVATORY (ACCESSIBLE) A.S. LUCERNE #0356.004 | 2" | 2" | 1-1/2" | 1/2" | 1/2" | WALL-HUNG, WITH MANUAL FAUCET AT 0.35 GPM CHICAGO #802.317ABCP WITH #1017 COMPLETE W/ TMV; MOUNT AT ACCESSIBLE HEIGHT (CBC/ADA). REFER TO ARCH PLANS FOR MOUNTING HEIGHT. PROVIDE WITH MCGUIRE SUPPLY & DRAIN PROWRAP & WATTS #LFMMV. |
| | | | | | | | |
| DF-1 | DRINKING FOUNTAIN ELKAY #EZSTLBWSK | 2" | 2" | 1-1/2" | 1/2" | – | HI-LO W/ BOTTLE FILLER, STAINLESS STEEL, VANDAL RESISTANT (CBC/ADA). 120 V/60 Hz; PROVIDE WITH (1) GFCI QUAD RECEPTACLE. |
| | | | | | | | |
| S-1 | SINK JUST #SL-ADA-1925-AGR | 1-1/2" | 2" | 1-1/2" | 1/2" | 1/2" | SINGLE COMPARTMENT, STAINLES STEEL W/ MANUAL WRIST-BLADE FAUCET AT 1.5 GPM CHICAGO #2301-BE34ABCP |
| | | | | | | | |
| SS-1 | SERVICE SINK A.S. FLORWELL #7741.000 WITH #7745.811 | 3" | 3" | 2" | 3/4" | 3/4" | FLOOR MOUNTED, CORNER TYPE, ENAMELED CAST IRON W/ VINYL RIM GUARD, 3" OUTLET, W/ TOP BRACE FAUCET, BUCKET HOOK, VB AND HOSE; CHICAGO FAUCET #897-RCP |
| MV-1 | ELECTRONIC MIXING VALVE HEAT TIMER MODEL #915625-00 | – | – | – | – | – | OR EQUAL BY LEONARD OR BRADLEY |
| TMV-1 | THERMOSTATIC MIXING VALVE WATTS #LFMMV | – | – | – | – | – | TEMPERATURE-LIMITING DEVICE FOR LAVATORIES; SET OUTLET TEMPERATURE TO 105°F |
| | | | | | | | |
| FS-1 | FLOOR SINK J.R.SMITH #3150Y-12 | 2" | 2" | 2" | 1/2" TP | – | ACID RESISTANT COATED, CAST IRON DRAIN, DOME STRAINER & DECK CLAMP, 3/4 GRATE FOR DISCHARGE PIPES. |
| FD-1 | FLOOR DRAIN J.R.SMITH #2005 | 2"/4" | 2"/4" | -1/2"/2" | 1/2" TP | – | JR SMITH #2005-A COMPLETE WITH TRAP PRIMER CONNECTION. SEE FLOOR PLANS FOR EXACT SIZE. |
| RR-1 | ROOF RECEPTOR J.R.SMITH #3980Y | 2" | 2" | 2" | – | – | DUCO CAST IRON BODY WITH COMBINED FLASHING CLAMP AND GRAVEL STOP W/ CAST IRON DOME |
| RD/OD-1 | ROOF/OVERFLOW DRAIN MIFAB #R1150 | REFER TO ROOF PLAN FOR SIZING | | | | | COMBINED ROOF & SECONDARY DRAIN SYSTEM; GALVANIZED SUMP RECEIVER, CAST IRON (C.I.) DRAIN BODIES WITH ANCHOR FLANGES, C.I. WATER PROOFING MEMBERANE CLAMP RINGS |
| | | | | | | | |
| TP-1 | TRAP PRIMER MIFAB #M2-500 | – | – | – | 1/2" | – | WITH MI-GAP-NPB AIR GAP FITTING (AND DISTRIBUTION UNIT) BEHIND ACCESS PANEL |
| ETP-1 | ELECTRONIC TRAP PRIMER MIFAB #MI-300-120VAC | – | – | – | 1/2" | – | ELECTRONIC TRAP PRIMER FOR FIRE RISER |
| WHA | WATER HAMMER ARRESTER MIFAB #MWH | – | – | – | – | – | PISTON OPERATED |
| | | | | | | | |
| IMB-1 | ICE MAKER BOX GUY GRAY #57978 | – | – | – | 1/2" | – | WITH INTEGRAL LEAD-FREE HAMMER ARRESTER QUARTER TURN VALVE. |
| HB-1 | HOSE BIBB (EXTERIOR) ACORN #8104 | – | – | – | 3/4" | – | HOSE & SUPPLY BOX WITH VACUUM BREAKER |
| HB-2 | HOSE BIBB (INTERIOR) ACORN #8121-LF | – | – | – | 3/4" | – | WITH VACUUM BREAKER |
| HB-3 | HOSE BIBB (ROOFTOP) ACORN #8126 | – | – | – | 3/4" | – | WITH VACUUM BREAKER |
| | | | | | | | |
| SGV-1 | SEISMIC GAS VALVE KOSO / PACIFIC GAS VALVE | – | – | – | – | – | – – |

NOTE: ALL DRAINS CONNECTED TO THE SEWER SUBJECT TO INFREQUENT USE SHALL BE PROVIDED WITH A TRAP PRIMER.

## HOT WATER PIPE INSULATION SCHEDULE

| PIPE SIZE | INSULATION THICKNESS | R VALUE GREATER THAN |
|---|---|---|
| 1/2" | 1.0" | 4.0 |
| 3/4" | 1.0" | 4.0 |
| 1" | 1.5" | 4.0 |
| 1 1/4" | 1.5" | 4.0 |
| 1 1/2" | 1.5" | 4.0 |
| 2" | 1.5" | 4.0 |

OWNER: SRCS VENETIA VALLEY K-8

PROJECT NAME: CLASSROOM REPLACEMENT AND NEW MPR BUILDING

CLIENT ADDRESS: 177 N San Pedro Rd, San Rafael, CA 94903

100% DD PROGRESS SET

REGISTERED PROFESSIONAL ENGINEER LARRY SUN No. M25633 EXP 09-30-18 MECHANICAL STATE OF CALIFORNIA

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951.299.4160 www.tklsc.com
Project Manager: Kiki Rodriguez
tklsc Job #: 2017-0452

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PROJECT NO:
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SHEET NUMBER: P0.2

SHEET TITLE:

SCHEDULES

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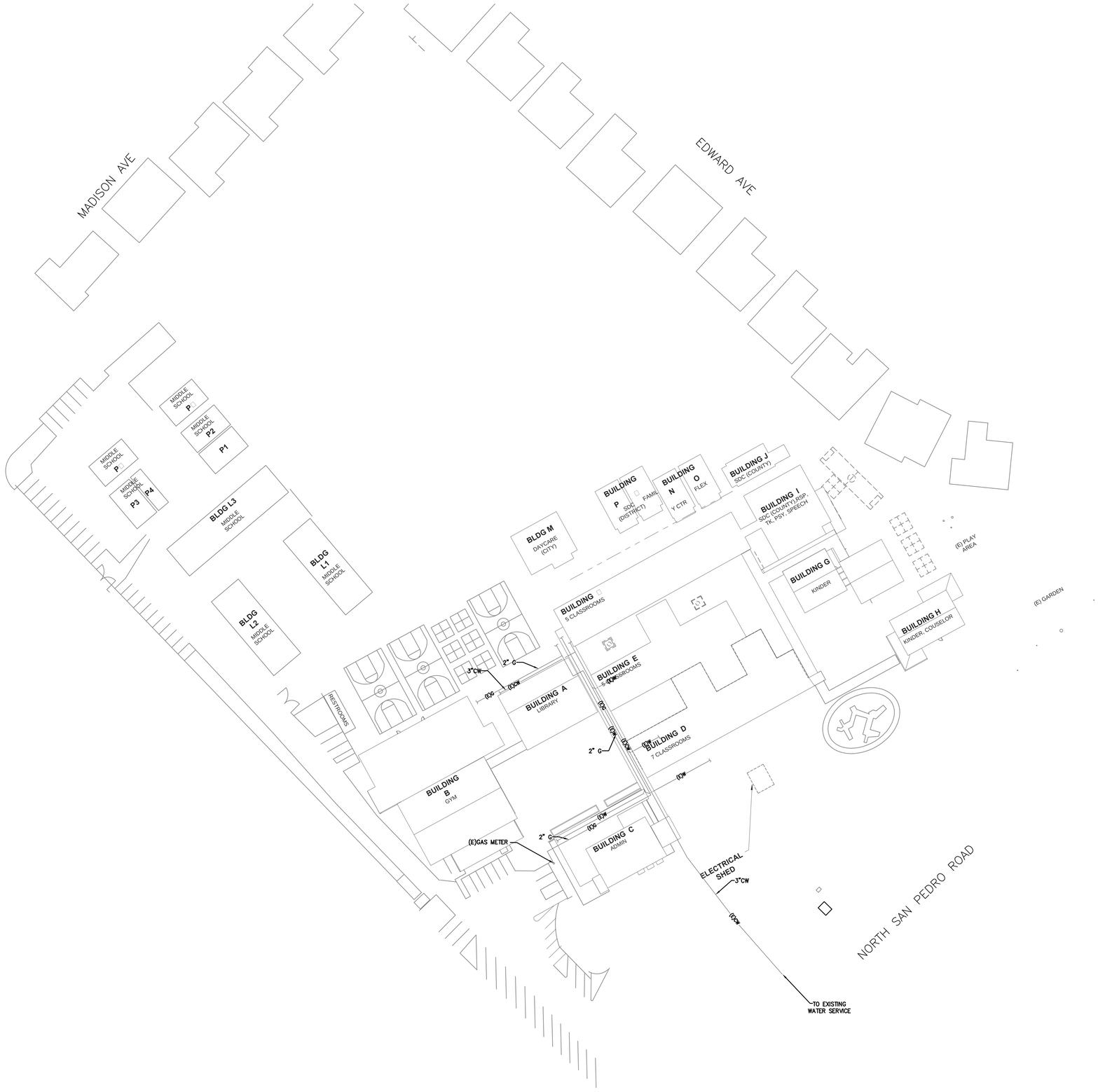


## 1 DEMOLITION SITE PLAN
1" = 40'-0"

**OWNER:** SRCS VENETIA VALLEY K-8

**PROJECT NAME:** CLASSROOM REPLACEMENT AND NEW MPR BUILDING

**CLIENT ADDRESS:** 177 N San Pedro Rd, San Rafael, CA 94903

**100% DD PROGRESS SET**


RAYMOND W. SWANEY No. E15610 REGISTERED PROFESSIONAL ENGINEER ELECTRICAL STATE OF CALIFORNIA

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**PROJECT NO:**

**SCALE:**

**SHEET NUMBER:** P1.1

**SHEET TITLE:**

# OVERALL PLUMBING DEMOLITION SITE PLAN


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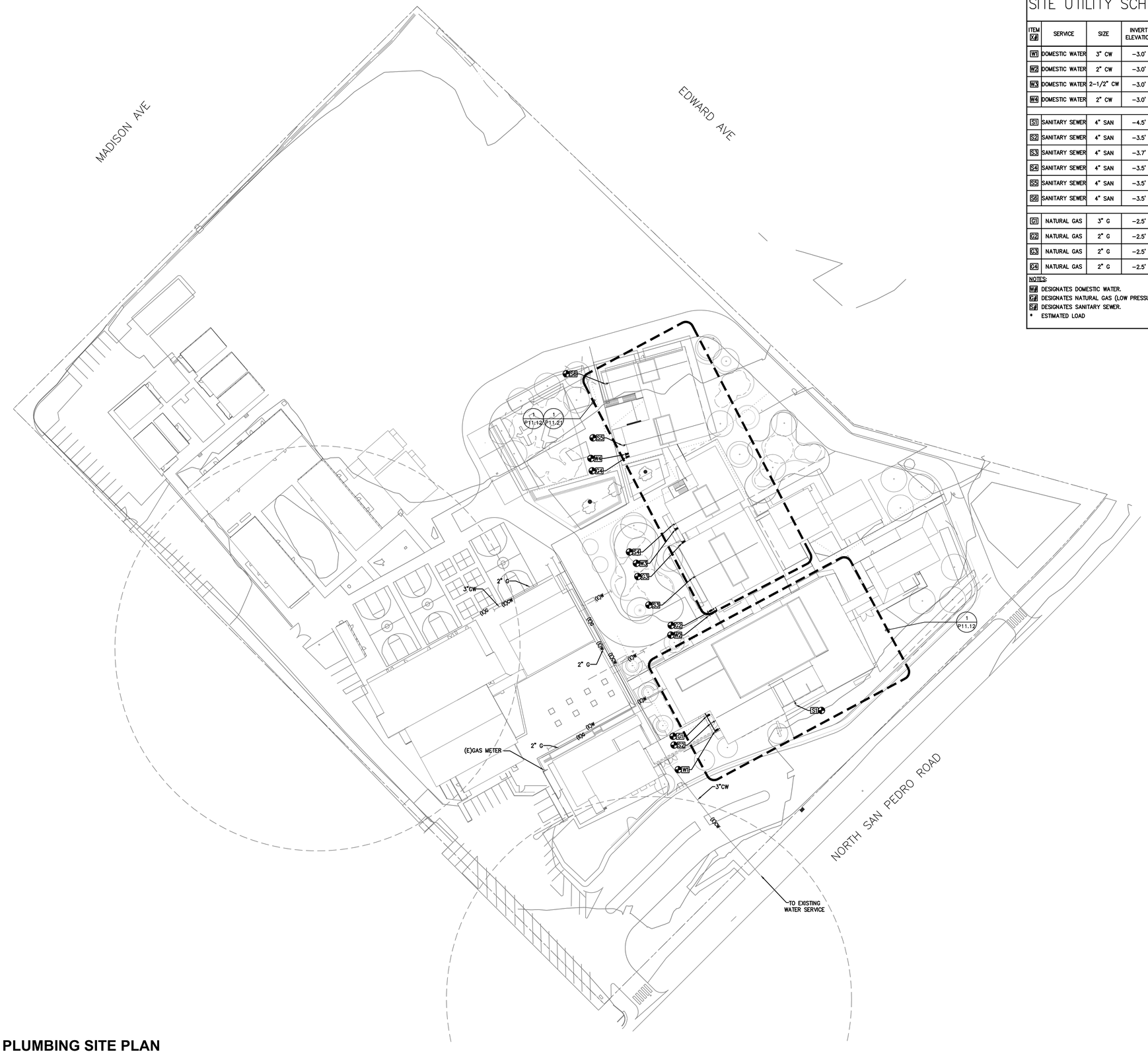
## SITE UTILITY SCHEDULE

| ITEM X.# | SERVICE | SIZE | INVERT ELEVATION | ANTICIPATED LOAD |
|---|---|---|---|---|
| W1 | DOMESTIC WATER | 3" CW | -3.0' | *133 FU |
| W2 | DOMESTIC WATER | 2" CW | -3.0' | 19 FU |
| W3 | DOMESTIC WATER | 2-1/2" CW | -3.0' | 59 FU |
| W4 | DOMESTIC WATER | 2" CW | -3.0' | 14 FU |
| S1 | SANITARY SEWER | 4" SAN | -4.5' | *80 DFU |
| S2 | SANITARY SEWER | 4" SAN | -3.5' | 83 DFU |
| S3 | SANITARY SEWER | 4" SAN | -3.7' | 18 DFU |
| S4 | SANITARY SEWER | 4" SAN | -3.5' | 35 DFU |
| S5 | SANITARY SEWER | 4" SAN | -3.5' | 4 DFU |
| S6 | SANITARY SEWER | 4" SAN | -3.5' | 14 DFU |
| G1 | NATURAL GAS | 3" G | -2.5' | 600 CFH* |
| G2 | NATURAL GAS | 2" G | -2.5' | 400 CFH* |
| G3 | NATURAL GAS | 2" G | -2.5' | 400 CFH* |
| G4 | NATURAL GAS | 2" G | -2.5' | 400 CFH* |

NOTES:
W# DESIGNATES DOMESTIC WATER.
G# DESIGNATES NATURAL GAS (LOW PRESSURE, 8" wc).
S# DESIGNATES SANITARY SEWER.
* ESTIMATED LOAD




1 **PLUMBING SITE PLAN**
1" = 40'-0"

**OWNER:** SRCS VENETIA VALLEY K-8

**PROJECT NAME:** CLASSROOM REPLACEMENT AND NEW MPR BUILDING

**CLIENT ADDRESS:** 177 N San Pedro Rd, San Rafael, CA 94903

100% DD PROGRESS SET


REGISTERED PROFESSIONAL ENGINEER LARRY SUN No. M25633 EXP 09-30-18 MECHANICAL STATE OF CALIFORNIA

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tk1sc Job #: 2017-0452


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**SHEET NUMBER:** P1.1
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# PLUMBING SITE PLAN


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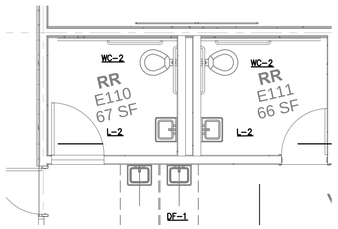
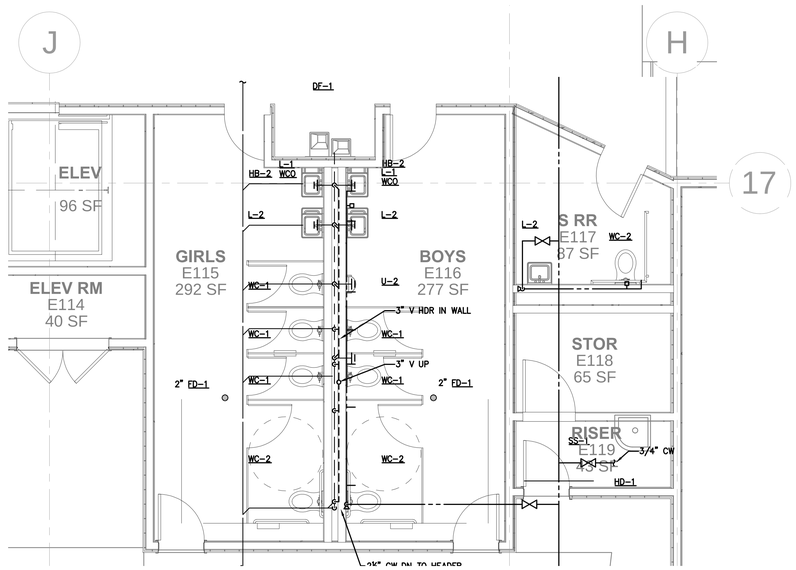
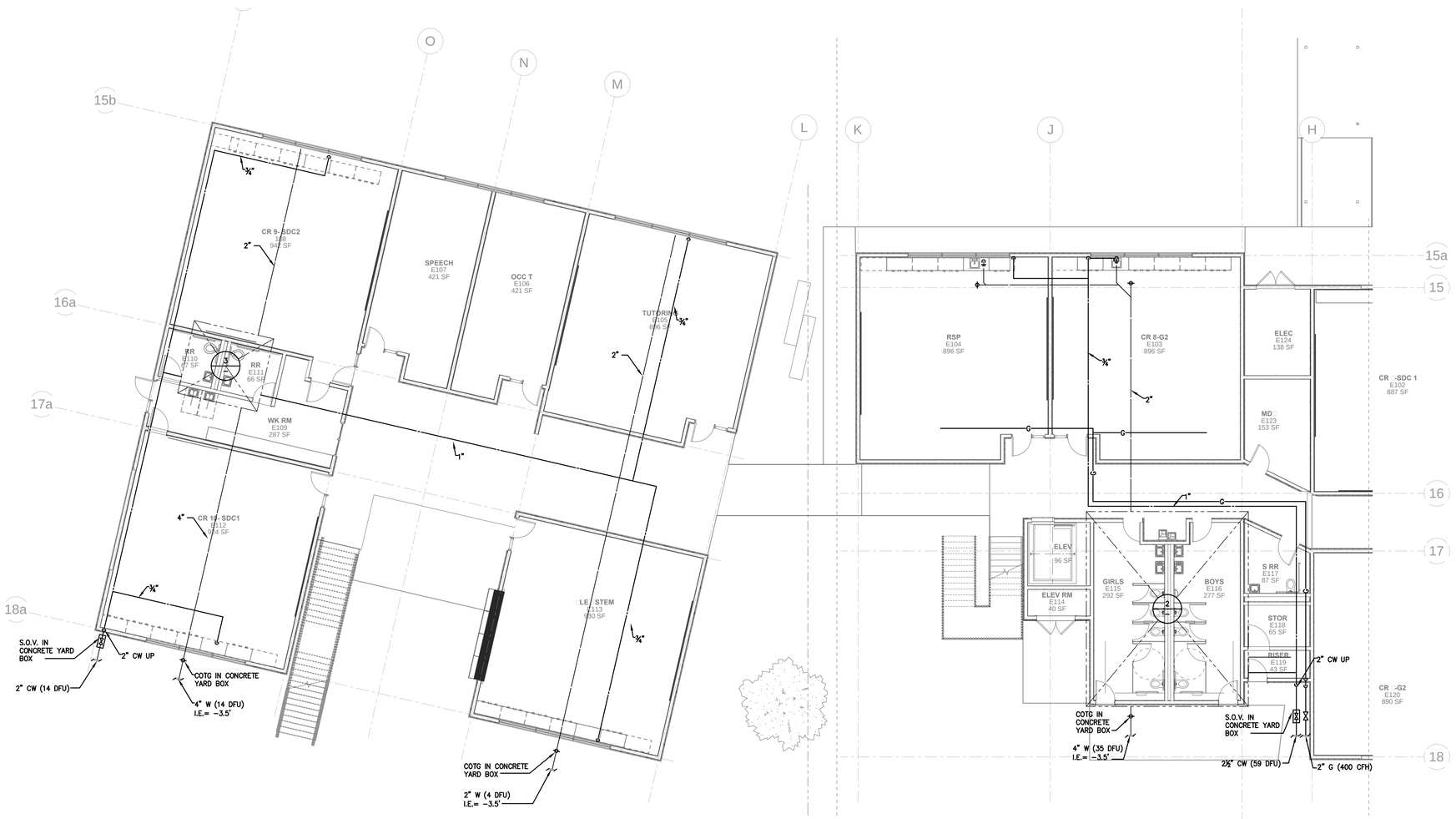



## 3 ENLARGED PLUMBING PLAN, RESTROOM
1/4" = 1'-0"




## 2 FLOOR PLAN - LEVEL 2 SEGMENT A
1/8" = 1'-0"




## 1 FLOOR PLAN - LEVEL 1 SEGMENT A
1/8" = 1'-0"

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**PROJECT NAME:** CLASSROOM REPLACEMENT AND NEW MPR BUILDING

**CLIENT ADDRESS:** 177 N San Pedro Rd, San Rafael, CA 94903

**100% DD PROGRESS SET**


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Project Manager - Kiki Rodriguez
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**DATE ISSUED:** 07/14/2017

**PROJECT NO:**

**SCALE:** 1/8" = 1'-0"

**SHEET NUMBER** P11.11A

**SHEET TITLE:**

# FIRST FLOOR PLAN - BUILDING E SEGMENT A


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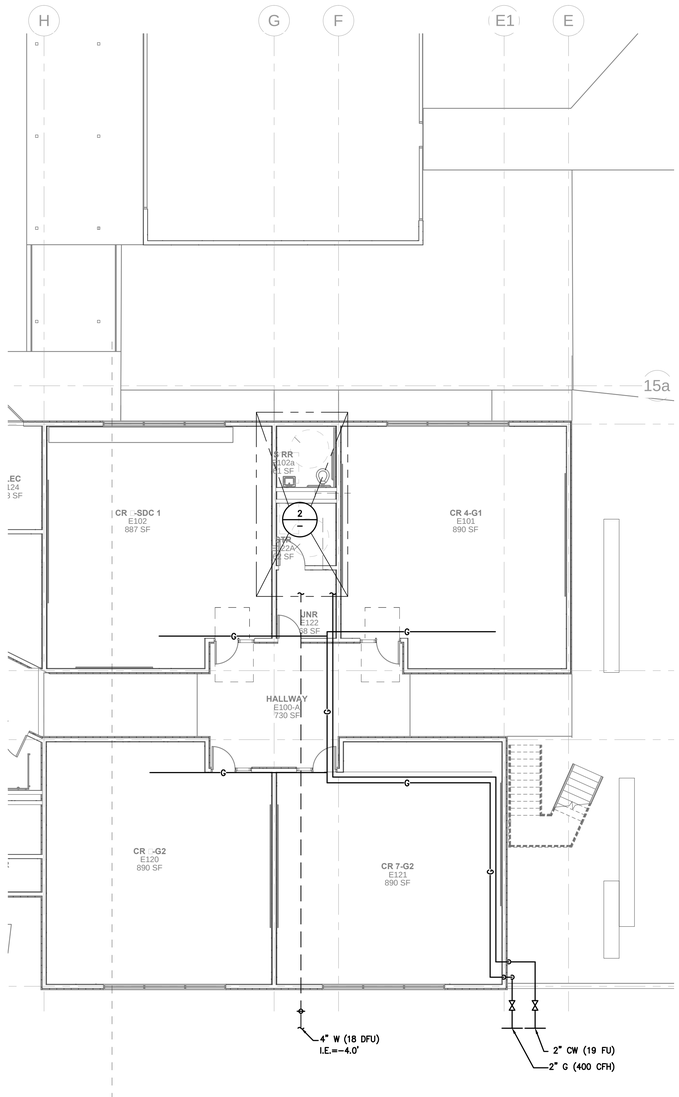
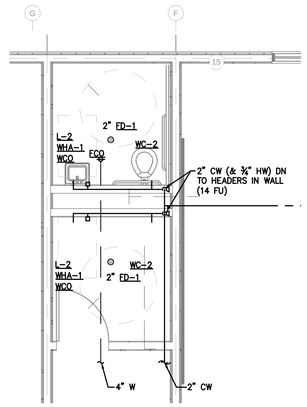



## 1 FLOOR PLAN - LEVEL 1 SEGMENT B

1/8" = 1'-0"




## 2 ENLARGED PLAN, RESTROOM

1/4" = 1'-0"

**OWNER:** SRCS VENETIA VALLEY K-8

**PROJECT NAME:** CLASSROOM REPLACEMENT AND NEW MPR BUILDING

**CLIENT ADDRESS:** 177 N San Pedro Rd, San Rafael, CA 94903

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Project Manager-Joel Baldovino
tk1sc Job #: 2017-0452


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**DATE ISSUED:** 07/14/2017

**PROJECT NO:**

**SCALE:** 1/8" = 1'-0"

**SHEET NUMBER:** P11.21B

**SHEET TITLE:**

# OVERALL FLOOR PLANS - BUILDING E LEVEL 1 SEGMENT B


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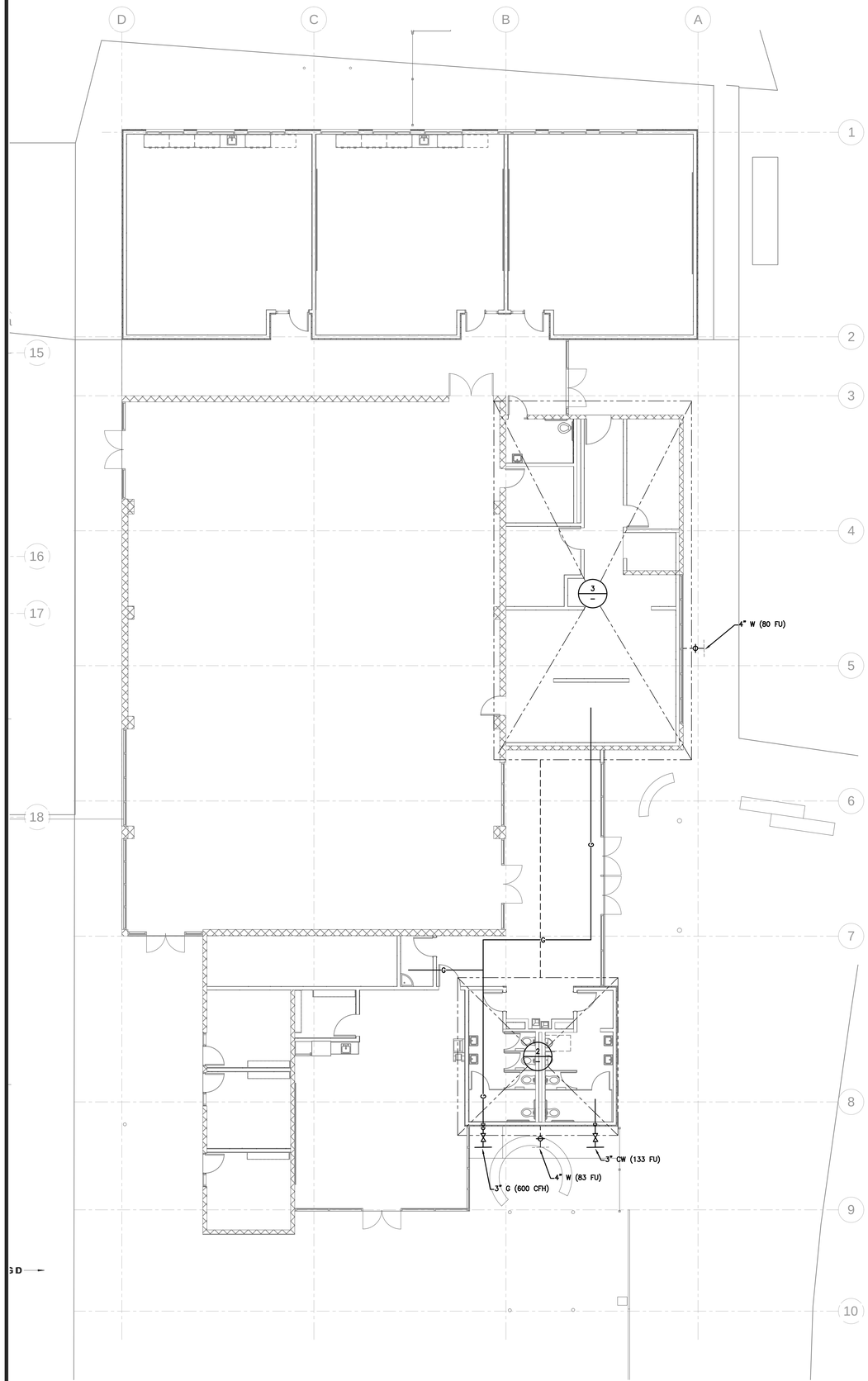
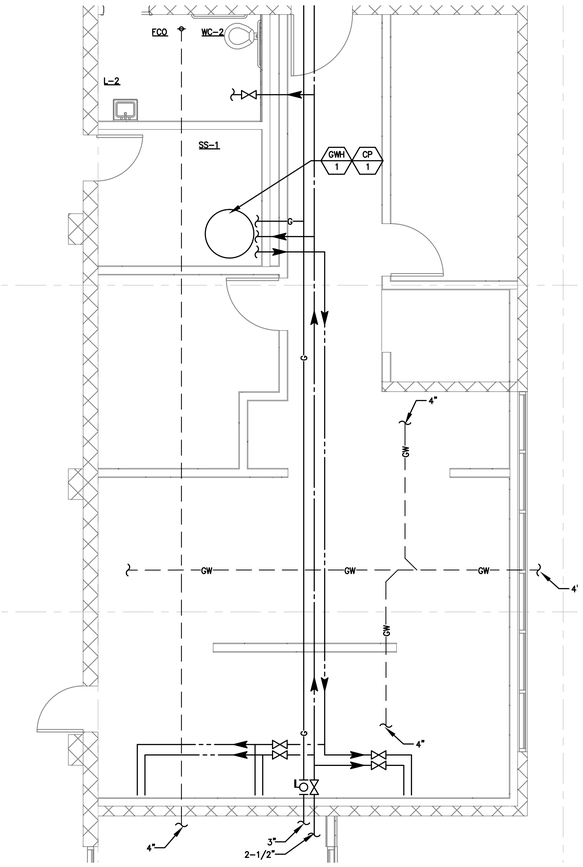
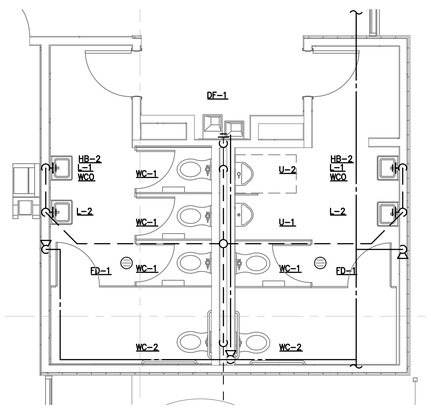



## 1 FLOOR PLAN
1/8" = 1'-0"




## 3 ENLARGED PLUMBING PLAN, KITCHEN
1/4" = 1'-0"




## 2 ENLARGED PLUMBING PLAN, RESTROOM
1/4" = 1'-0"

KEYNOTES:

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**OWNER:** SRCS VENETIA VALLEY K-8

**PROJECT NAME:** CLASSROOM REPLACEMENT AND NEW MPR BUILDING

**CLIENT ADDRESS:** 177 N San Pedro Rd, San Rafael, CA 94903

100% DD PROGRESS SET


REGISTERED PROFESSIONAL ENGINEER LARRY SUN No. M25633 EXP 09-30-18 MECHANICAL STATE OF CALIFORNIA

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**DATE ISSUED:** 07/14/2017

**PROJECT NO:**

**SCALE:** 1/8" = 1'-0"

**SHEET NUMBER:** P11.12

**SHEET TITLE:**

# FIRST FLOOR PLAN - BUILDING D


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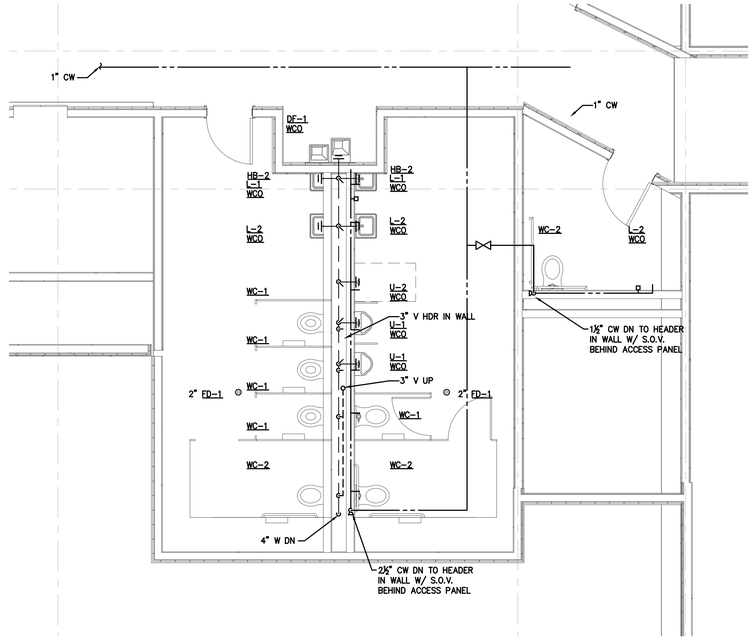
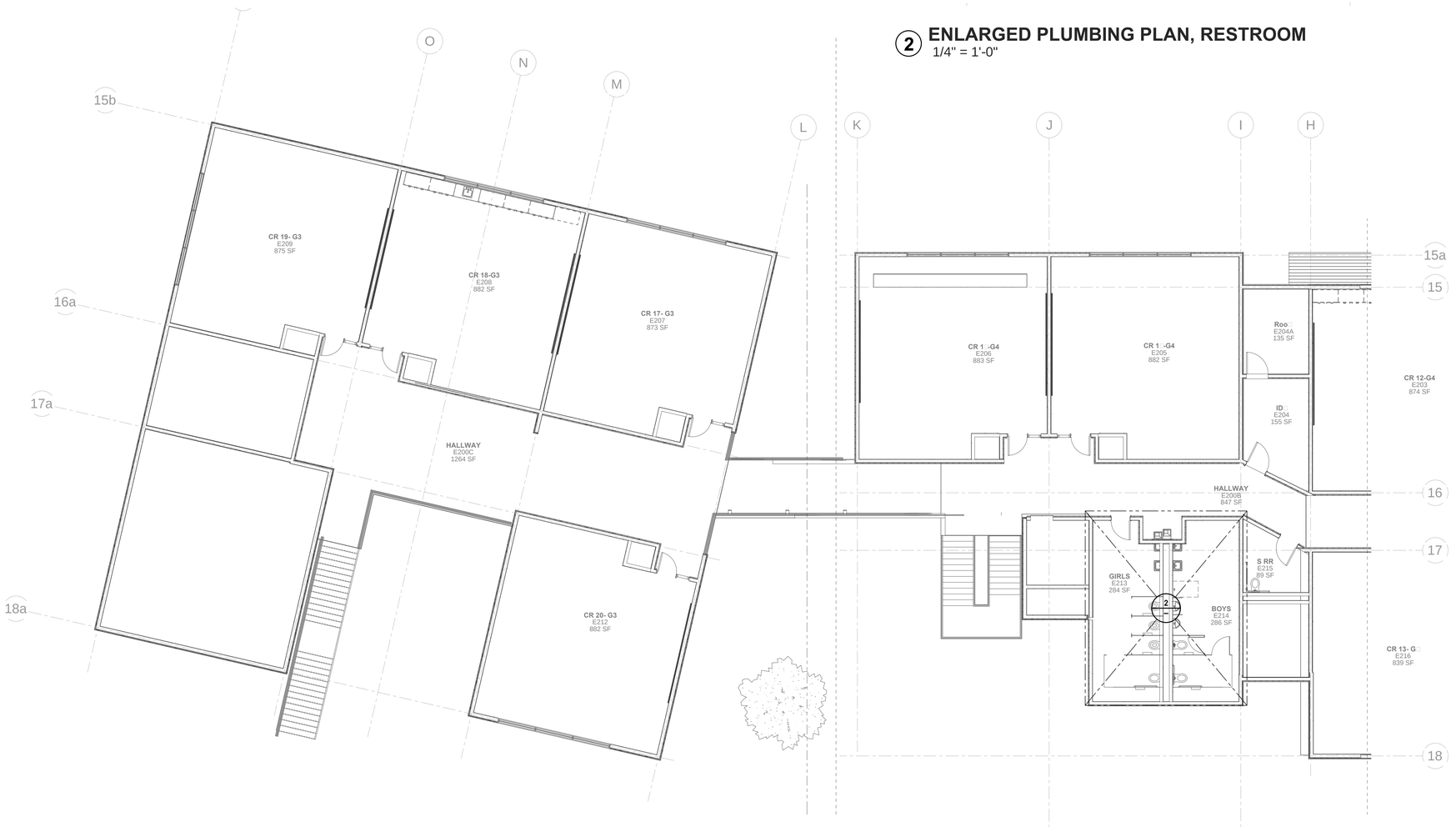



## 2 ENLARGED PLUMBING PLAN, RESTROOM

1/4" = 1'-0"




## 1 □LOOR PLAN - LEVEL 1 SEGMENT A

1/8" = 1'-0"

**OWNER:** SRCS VENETIA VALLEY K-8

**PROJECT NAME:** CLASSROOM REPLACEMENT AND NEW MPR BUILDING

**CLIENT ADDRESS:** 177 N San Pedro Rd, San Rafael, CA 94903

**DD PROGRESS SET**

REGISTERED PROFESSIONAL ENGINEER LARRY SIAS No. M20633 EXP 08-30-18 MECHANICAL STATE OF CALIFORNIA

LICENSED ARCHITECT ROBERT M. SHIMA No. C-18301 Jan 31, 2019 STATE OF CALIFORNIA

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**DATE ISSUED:** 06/05/2017

**PROJECT NO:** Project Number

**SCALE:** 1/16" = 1'-0"

**SHEET NUMBER** P11.21A

**SHEET TITLE:**

# □IRST □LOOR PLAN - BUILDING E SEGMENT A


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Project Manager–Joel Baldovino
tk1sc Job #: 2017–0452



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## 1 FLOOR PLAN - LEVEL 2 SEGMENT B
1/8" = 1'-0"

**OWNER:** SRCS VENETIA VALLEY K-8

**PROJECT NAME:** CLASSROOM REPLACEMENT AND NEW MPR BUILDING

**CLIENT ADDRESS:** 177 N San Pedro Rd, San Rafael, CA 94903

**100% DD PROGRESS SET**


LARRY SUN — No. M35633 EXP 09-30-18 — REGISTERED PROFESSIONAL ENGINEER — MECHANICAL — STATE OF CALIFORNIA

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**DATE ISSUED:** 07/14/2017

**PROJECT NO:**

**SCALE:** 1/8" = 1'-0"

**SHEET NUMBER:** P11.21B

**SHEET TITLE:**

# SECOND FLOOR PLAN - BUILDING E LEVEL 2 SEGMENT B


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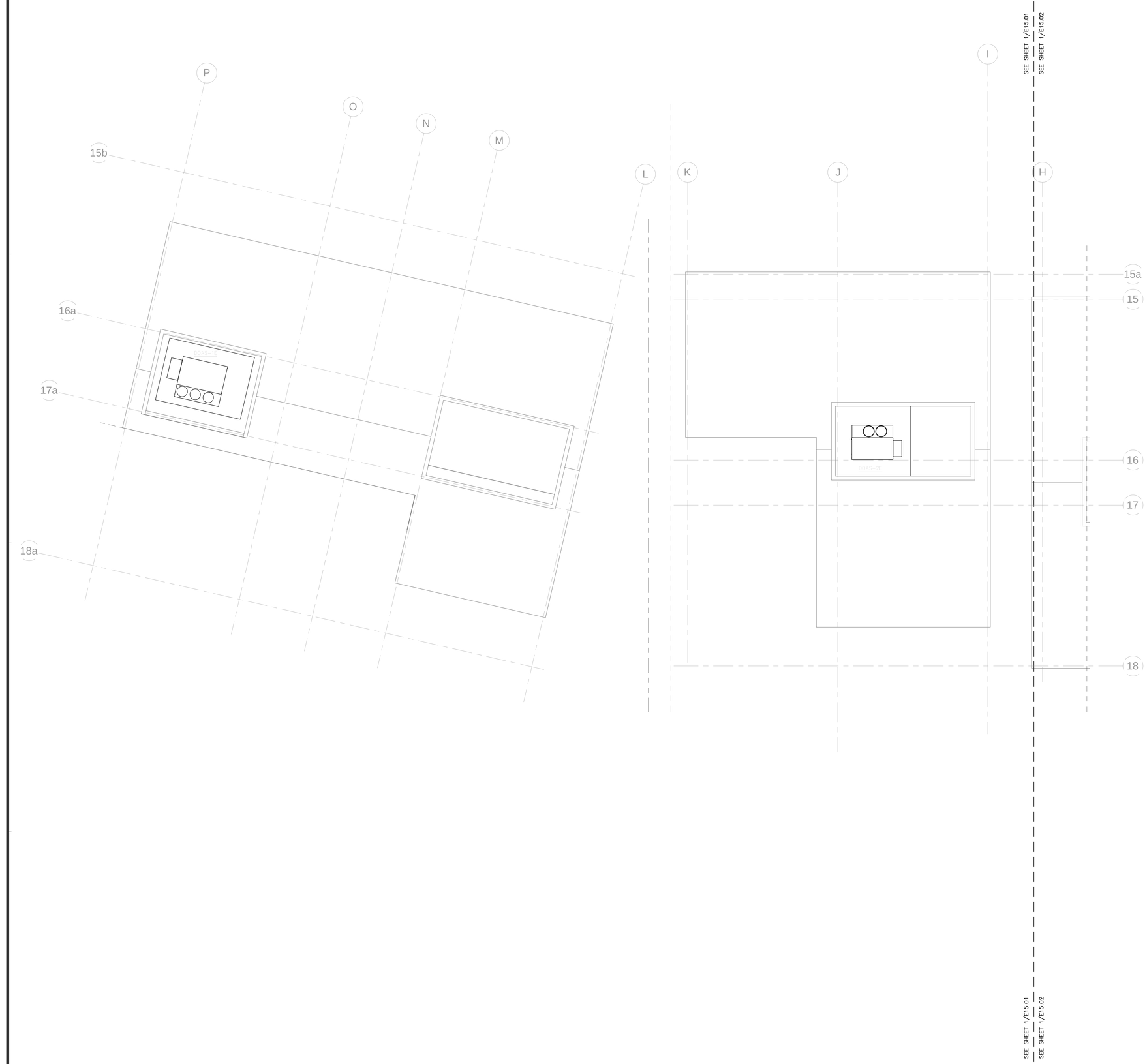


1 ROO PLAN
1/8" = 1'-0"

**OWNER:** SRCS VENETIA VALLEY K-8

**PROJECT NAME:** CLASSROOM REPLACEMENT AND NEW MPR BUILDING

**CLIENT ADDRESS:** 177 N San Pedro Rd, San Rafael, CA 94903

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**DATE ISSUED:** 07/14/2017

**PROJECT NO:**

**SCALE:**

**SHEET NUMBER:** P1 .01

**SHEET TITLE:**

# PLUMBING ROO PLAN - BUILDING E2,E3


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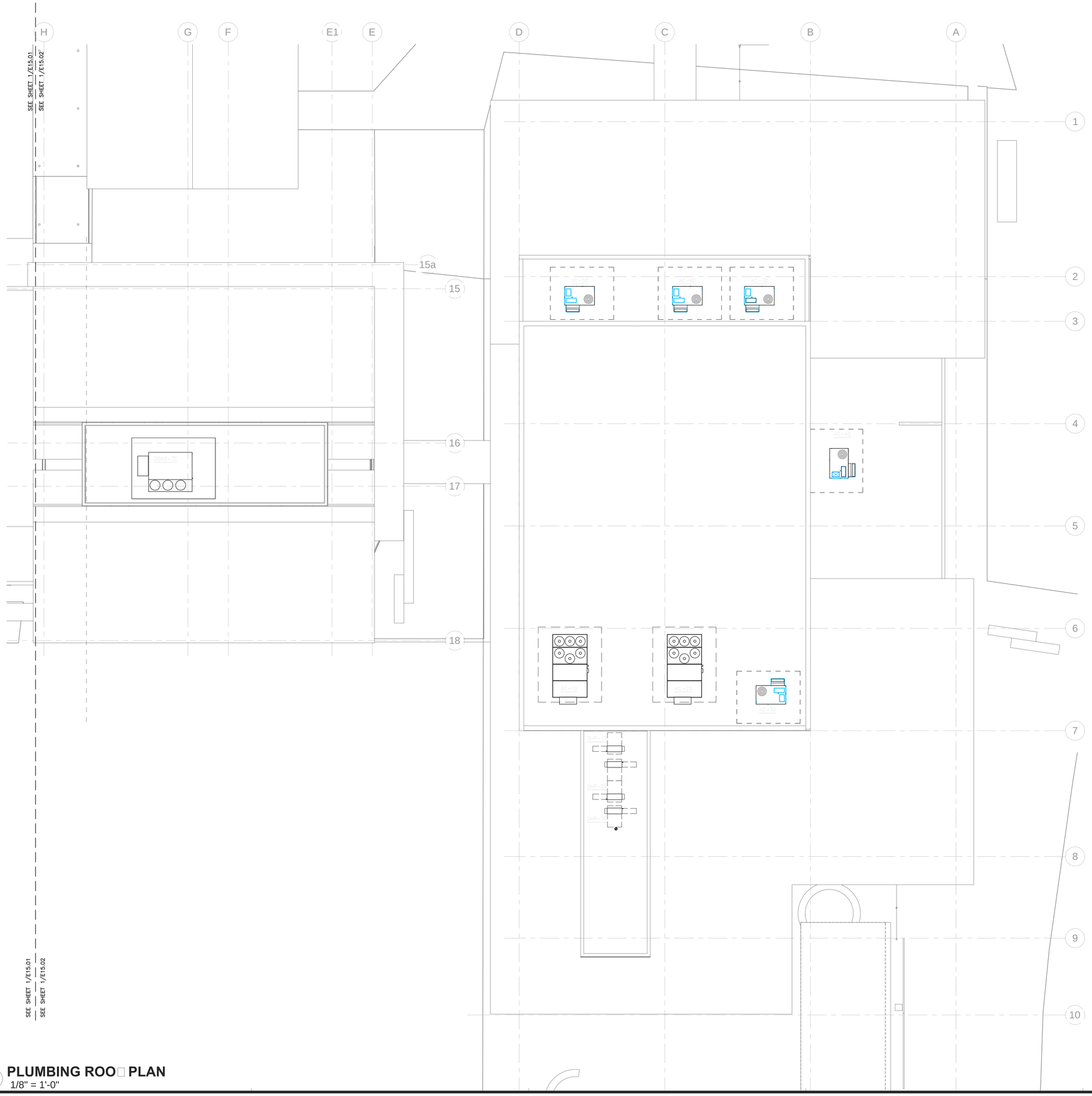


# 1 PLUMBING ROO□ PLAN
1/8" = 1'-0"

**OWNER:** SRCS VENETIA VALLEY K-8

**PROJECT NAME:** CLASSROOM REPLACEMENT AND NEW MPR BUILDING

**CLIENT ADDRESS:** 177 N San Pedro Rd, San Rafael, CA 94903

100% DD PROGRESS SET


REGISTERED PROFESSIONAL ENGINEER LARRY SUN No. M25633 EXP 09-30-18 MECHANICAL STATE OF CALIFORNIA

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Project Manager–Joel Baldovino
tk1sc Job #: 2017–0452


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**PROJECT NO:**

**SCALE:**

**SHEET NUMBER:** P1□.02

**SHEET TITLE:**

**PLUMBING ROO□ PLAN - BUILDING D,E1**


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## CALIFORNIA GREEN BUILDING STANDARD TABLE 5.303.3 STANDARDS FOR PLUMBING FIXTURES AND FIXTURE FITTINGS

### REQUIRED STANDARDS

| | |
|---|---|
| WATER CLOSETS (TOILETS) – FLUSHOMETER VALVE TYPE SINGLE FLUSH, MAXIMUM FLUSH VOLUME | ASME A 112.19.2/ CSA B45.1 – 1.28 GAL (4.8 L) |
| WATER CLOSETS (TOILETS) – FLUSHOMETER VALVE TYPE DUAL FLUSH, MAXIMUM FLUSH VOLUME | ASME A 112.19.14 AND USEPA WATERSENSE TANK – TYPE HIGH-EFFICIENCY TOILET SPECIFICATION – 1.28 GAL (4.8 L) |
| URINALS, MAXIMUM FLUSH VOLUME | ASME A 112.19.2/ CSA B45.1 – 0.5 GAL (1.9 L) |
| PUBLIC LAVATORY FAUCETS: MAXIMUM FLOW RATE – 0.5 GPM (1.9 L/ MIN) | ASME A 112.18.1/ CSA B125.1 |
| PUBLIC METERING SELF-CLOSING FAUCETS: MAXIMUM WATER USE – 0.25 GAL (1.0 L) PER METERING CYCLE | ASME A 112.18.1/ CSA B125.1 |
| SHOWERHEADS MAXIMUM FLOW RATE – 2.0 GPM | ENERGY POLICY ACT OF 1992 ASME A112.18.1 / CSA B125.1 |

## DSA ANCHORAGE & BRACING NOTES (2016)

ANCHORAGE NOTES:

ALL MECHANICAL, PLUMBING AND ELECTRICAL COMPONENTS SHALL BE ANCHORED AND INSTALLED PER THE DETAILS ON THE DSA APPROVED CONSTRUCTION DOCUMENTS. WHERE NO DETAIL IS INDICATED, THE FOLLOWING COMPONENTS SHALL BE BE ANCHORED OR BRACED TO MEET THE FORCE AND DISPLACEMENTS PRESCRIBED IN THE 2016 CBC, SECTIONS 1616A.1.18 THROUGH 1616A.1.26 AND ASCE 7-10 CHAPTERS 13, 26 AND 30.

1. ALL PERMANENT EQUIPMENT AND COMPONENTS.
2. TEMPORARY OR MOVABLE EQUIPMENT THAT IS PERMANENTLY ATTACHED (E.G. HARDWIRED) TO THE BUILDING UTILITY SERVICES SUCH AS ELECTRICITY, GAS OR WATER,
3. MOVABLE EQUIPMENT WHICH IS STATIONED IN ONE PLACE FOR MORE THAN 8 HOURS AND HEAVIER THAN 400 POUNDS OR HAS A CENTER OF MASS LOCATED 4 FEET OR MORE ABOVE THE ADJACENT FLOOR OR ROOF LEVEL THAT DIRECTLY SUPPORT THE COMPONENT ARE REQUIRED TO BE ANCHORED WITH TEMPORARY ATTACHMENTS.

THE ATTACHMENT OF THE FOLLOWING MECHANICAL AND ELECTRICAL COMPONENTS SHALL BE POSITIVELY ATTACHED TO THE STRUCTURE, BUT THE ATTACHMENT NEED NOT BE DETAILED ON THE PLANS. THESE COMPONENTS SHALL HAVE FLEXIBLE CONNECTIONS PROVIDED BETWEEN THE COMPONENT AND ASSOCIATED DUCTWORK, PIPING, AND CONDUIT.

A. COMPONENTS WEIGHING LESS THAN 40 POUNDS AND HAVE A CENTER OF MASS LOCATED 4 FEET OR LESS ABOVE THE ADJACENT FLOOR OR ROOF LEVEL THAT DIRECTLY SUPPORT THE COMPONENT.
B. COMPONENTS WEIGHING LESS THAN 20 POUNDS, OR IN THE CASE OF DISTRIBUTED SYSTEMS, LESS THAN 5 POUNDS PER FOOT, WHICH ARE SUSPENDED FROM A ROOF OR FLOOR OR HUNG FROM A WALL.

FOR THOSE ELEMENTS THAT DO NOT REQUIRE DETAILS ON THE APPROVED DRAWINGS, THE INSTALLATION SHALL BE SUBJECT TO THE APPROVAL OF THE DESIGN PROFESSIONAL IN GENERAL RESPONSIBLE CHARGE OR STRUCTURAL ENGINEER DELEGATED RESPONSIBILITY AND THE DSA DISTRICT STRUCTURAL ENGINEER. THE PROJECT INSPECTOR WILL VERIFY THAT ALL COMPONENTS AND EQUIPMENT HAVE BEEN ANCHORED IN ACCORDANCE WITH ABOVE REQUIREMENTS.

PIPING DISTRIBUTION SYSTEM BRACING NOTE:

PIPING SYSTEMS SHALL BE BRACED TO COMPLY WITH THE FORCES AND DISPLACEMENTS PRESCRIBED IN ASCE 7-10 SECTION 13.3 AS DEFINED IN ASCE 7-10 SECTION 13.3 AS DEFINED IN ASCE 7-10 SECTION 13.6.5.6, 13.6.7, 13.6.8, AND 2016 CBC, SECTIONS 1616A.1.24, 1616A.1.25 AND 1616A.1.26.

THIS METHOD OF SHOWING BRACING AND ATTACHMENTS TO THE STRUCTURE FOR THE IDENTIFIED DISTRIBUTION SYSTEM ARE AS NOTED BELOW. WHEN BRACING AND ATTACHMENTS ARE BASED ON A PRE-APPROVED INSTALLATION GUIDE (E.G., SMACNA, OR OSHPD OPM), COPIED OF THE BACING SYSTEM INSTLLATION GUIDE OR MANUAL SHALL BE AVAILABLE ON THE JOBSITE PRIOR TO THE START OF AND DURING THE HANGING AND BRACING OF THE DISTRIBUTION SYSTEMS. THE STRUCTURAL ENGINEER OF RECORD SHALL VERIFY THE ADEQUACY OF THE STRUCTURE TO SUPPORT THE HANGER AND BRACE LOADS.

PLUMBING PIPING:
☐ OPTION 1: DETAILED ON THE APPROVED DRAWINGS WITH PROJECT SPECIFIC NOTES AND DETAILS.

☐ OPTION 2: SHALL COMPLY WITH THE APPLICABLE OSHPD PRE-APPROVAL (OPM #)

☐ OPTION 3: SHALL COMPLY WITH THE SMACNA SEISMIC RESTRAINT MANUAL, OSHPD EDITION (2009), INCLUDING ANY ADDENDA. FASTENERS AND OTHER ATTACHMENTS NOT SPECIFICALLY IDENTIFIED IN THE SMACNA SEISMIC RESTRAINT MANUAL, OSHPD EDITION, ARE DETAILED ON THE APPROVED DRAWINGS WITH PROJECT SPECIFIC NOTES AND DETAILS. THE DETAILS SHALL ACCOUNT FOR THE APPLICABLE SEISMIC HAZARD LEVEL _ AND CONNECTION LEVEL _ FOR THE PROJECT AND CONDITIONS.

THE BRACING AND ATTACHMENTS TO THE STRUCTURE SHALL BE DETAILED ON THE APPROVED DRAWINGS OR THEY SHALL COMPLY WITH ONE OF THE OSHPD PRE-APPROVALS (OPM #) AS MODIFIED TO SATISFY ANCHORAGE REQUIREMENTS OF ACI 318, APPENDIX D.

COPIES OF THE MANUAL SHALL BE AVAILABLE ON THE JOBSITE PRIOR TO THE START OF HANGING AND BRACING OF OF THE PIPE DISTRIBUTION SYSTEMS.

THE STRUCTURAL ENGINEER OF RECORD SHALL VERIFY THE ADEQUACY OF THE STRUCTURE TO SUPPORT THE HANGER AND BRACE LOADS.

## PIPING MATERIALS

| | |
|---|---|
| 1. SANITARY SEWER , VENT AND STORM DRAIN PIPING BELOW GROUND : | SERVICE WEIGHT NO-HUB CAST IRON PIPE & FITTINGS CONFORMING TO THE REQUIREMENTS CISPI STANDARD 301, ASTM A 888 OR ASTM A74 WITH TYPE 304 STAINLESS STEEL HEAVY DUTY NO-HUB COUPLINGS. PROVIDE PIPE WRAP ON ALL UNDERGROUND PIPING IN ACCORDANCE WITH ANSI/AWWA STANDARDS C105 /A21.5-93. BED AND BACKFILL WITH CLEAN SAND, 6" THICK ALL AROUND PIPE. |
| 2. SOIL , WASTE VENT , STORM DRAIN PIPING ABOVE GROUND : | SERVICE WEIGHT NO-HUB CAST IRON PIPE & FITTINGS CONFORMING TO THE REQUIREMENTS OF CISPI STANDARD 301, ASTM A888 OR ASTM A74 WITH TYPE 304 STAINLESS STEEL STANDARD DUTY NO-HUB COUPLINGS. |
| 3. WATER PIPING BELOW GROUND : | TYPE 'K' COPPER WITH BRAZED JOINTS. |
| 4. WATER PIPING ABOVE GROUND : | TYPE 'L' COPPER WITH LEAD-FREE SOLDERED JOINTS. |
| 5. GAS PIPING : | SCHEDULE 40 BLACK STEEL WITH MALLEABLE IRON SCREWED OR WELDED JOINTS. |
| 6. GAS PIPING BELOW GROUND: | DRISCOPLEX PE2406 POLYETHYLENE PIPING SYSTEMS WITH ELECTRIC FUSION SOCKET JOINTS. PROVIDE #12 ELECTRIC TRACER COPPER WIRE, SPIRAL WRAPPED AROUND PIPE. UNDERGROUND STEEL PIPING AND FITTINGS SHALL BE AS FOR ABOVE GROUND. PIPING SHALL BE WRAPPED AND CATHODICALLY PROTECTED PER THE SOILS ENGINEER DIRECTION. |
| 7. CONDENSATE DRAIN PIPING : | TYPE 'M' COPPER WITH SOLDERED JOINTS. |
| 8. INSULATION OF DOMESTIC HOT WATER SUPPLY AND HOT WATER RETURN PIPING : | GLASS FIBER PIPE INSULATION WITH FACTORY APPLIED WHITE JACKET, J-M MICRO-LOK 650AP, 1" THICK FOR PIPE SIZES OF 1/2" TO 1"., AND 1 1/2" THICK FOR PIPE SIZES TO 1 1/4" AND LARGER. INSULATE FITTINGS AND VALVES W/ PREFORMED INSULATION WITH PVC PREMOLDED ONE PIECE FITTING COVER BY J.M. ZESTON. ADHERE LONGITUDINAL LAPS AND BUTTS OF STRIPS OF JACKET W/ FACTORY APPLIED PRESSURE SENSITIVE TAPE SYSTEM, J-M AP-T. FLANGES AND UNIONS SHALL NOT BE COVERED. |
| 9. INSULATION OF INTERIOR CONDENSATE DRAIN PIPING : | AP ARMFLEX CLOSED-CELL ELASTOMERIC FOAM INSULATION. FLAME-SPREAD INDEX OF 25 OR LESS AND SMOKE-DEVELOPED INDEX OF 50 OR LESS. 1/2 INCH THICK FOR 4 INCH DIAMETER PIPE AND LESS. |

10. ALL OF THE ABOVE SHALL COMPLY WITH THE SPECIFICATIONS.

NOTE:
ALL PIPE, FITTINGS, FIXTURES, ETC. THAT CONTACT POTABLE WATER FOR HUMAN CONSUMPTION SHALL SHOW APPROVAL TO NSF 61, ANNEX "G". EFFECTIVE JANUARY 1, 2010, THE LEAD CONTENT OF THE WETTED SURFACE AREA OF THE PIPES, FITTINGS AND FIXTURES CONVEYING POTABLE WATER FOR HUMAN CONSUMPTION, OF NOT MORE THAN 0.25% SHALL BE DETERMINED PURSUANT TO A PRESCRIBED FORMULA AS DETERMINED BY THIRD PARTY CERTIFIERS TO NSF STANDARD 61, ANNEX "G". REFERENCE SECTION 604.10, CALIFORNIA PLUMBING CODE, 2010 EDITION, AND HEALTH & SAFETY CODE SECTION 116875.

| APPLICABLE | TITLE 24 MANDATORY MEASURES |
|---|---|
| | EQUIPMENT AND SYSTEMS EFFICIENCY |
| ☒ | ANY APPLIANCE FOR WHICH THERE IS A CALIFORNIA STANDARD ESTABLISHED IN THE APPLIANCE EFFICIENCY STANDARDS MAY BE INSTALLED ONLY IF THE MANUFACTURER HAS CERTIFIED TO THE COMMISSION, AS SPECIFIED IN THOSE REGULATIONS , THAT THE APPLIANCE COMPLIES WITH THE APPLICABLE STANDARD FOR THAT APPLIANCE . |
| ☒ | PIPING SYSTEMS SHALL BE INSULATED IN ACCORDANCE WITH REQUIREMENTS OF THE TITLE 24 STANDARDS AND ALL CODES HAVING THE JURISDICTION . |
| | SERVICE WATER HEATING SYSTEMS |
| ☐ | THE FOLLOWING SERVICE WATER HEATING SYSTEMS AND EQUIPMENT MAY BE INSTALLED ONLY IF THE MANUFACTURER HAS CERTIFIED THAT THE EQUIPMENT MEETS OR EXCEEDS ALL APPLICABLE EFFICIENCY REQUIREMENTS LISTED IN 113 OF THE ENERGY EFFICIENCY STANDARDS : GAS-FIRED NON-STORAGE TYPES >200,000 BTU/HR . |
| ☐ | UNFIRED SERVICE WATER HEATER STORAGE TANKS AND BACKUP TANKS FOR SOLAR WATER HEATING SYSTEMS SHALL HAVE EITHER : EXTERNAL INSULATION WITH AN INSTALLED R-VALUE OF AT LEAST R-12 , INTERNAL AND EXTERNAL INSULATION WITH A COMBINED R-VALUE OF AT LEAST R-16 , OR SUFFICIENT INSULATION SO THAT THE HEAT LOSS OF THE TANK SURFACE BASED ON AN 80° F WATER-AIR TEMPERATURE DIFFERENCE SHALL SHALL BE LESS THAN 6.5 BTU / HR / SF . |
| ☒ | IF A CIRCULATING HOT WATER SYSTEM IS INSTALLED , IT SHALL HAVE A CONTROL CAPABLE OF AUTOMATICALLY TURNING OFF THE CIRCULATING PUMP(S) WHEN HOT WATER IS NOT REQUIRED . |
| ☒ | LAVATORIES IN RESTROOMS OF PUBLIC FACILITIES SHALL BE EQUIPPED WITH : |
| ☒ | OUTLET DEVICES THAT LIMIT THE FLOW OF HOT WATER TO A MAXIMUM OF 0.5 GALLONS PER MINUTE . |
| ☐ | FOOT ACTUATED CONTROL VALVES , AND OUTLET DEVICES THAT LIMIT THE FLOW OF HOT WATER TO A MAXIMUM OF 0.75 GALLONS PER MINUTE . |
| ☒ | LAVATORIES IN RESTROOM OF PUBLIC FACILITIES SHALL BE EQUIPPED WITH CONTROLS TO LIMIT THE OUTLET TEMPERATURE TO 110° F. PROVIDE WITH WATTS #LFMMV |

## PLUMBING GENERAL NOTES

1. SEE ARCHITECTURAL DRAWINGS FOR EXACT LOCATION OF ALL PLUMBING FIXTURES, DRAINS AND EQUIPMENT.
2. COORDINATE ALL LOCATIONS, SIZES AND ELEVATIONS OF ALL SLEEVES THROUGH BEAMS, SLABS AND FOOTINGS WITH STRUCTURAL AND ARCHITECTURAL DRAWINGS.
3. ALL HORIZONTAL WASTE LINES SHALL BE RUN AT A MINIMUM SLOPE OF 1/4" PER FOOT UNLESS OTHERWISE NOTED ON PLAN.
4. ALL HORIZONTAL STORM DRAINS AND OVERFLOW DRAIN LINES SHALL BE RUN AT A SLOPE OF 1/8" PER FOOT UNLESS OTHERWISE NOTED ON PLAN.
5. COORDINATE AND VERIFY EXACT LOCATION, SIZE, POINTS OF CONNECTION AND INVERT ELEVATIONS OF UTILITY SERVICE PIPING BEFORE TRENCHING OR INSTALLATION.
6. COORDINATE WITH ARCHITECTURAL DRAWINGS FOR WALL AND PARTITION CONSTRUCTION AND THICKNESS WHERE PLUMBING PIPING OR EQUIPMENT IS INDICATED.
7. THE LOCATION AND ELEVATION OF ALL PLUMBING PIPING SHALL BE VERIFIED AND COORDINATED WITH ALL OTHER TRADES, STRUCTURAL CONDITIONS AND BUILDING CONSTRUCTION PRIOR TO START OF INSTALLATION.
8. ALL VALVES AND COCKS SHALL BE LOCATED TO BE READILY ACCESSIBLE. WHERE VALVES ARE INSTALLED WITHIN OR BEHIND WALLS, PARTITIONS OR CEILINGS, AN ACCESS PANEL SHALL BE INSTALLED.
9. ALL OUTLETS FOR FUTURE CONNECTIONS SHALL BE INSTALLED SO AS TO PERMIT EASY CONNECTION – COORDINATE WITH DUCT WORK, STRUCTURAL CONDITIONS AND ARCHITECTURAL LAYOUT.
10. ALL PLUGGED OR CAPPED WASTE OUTLETS FOR FUTURE CONNECTIONS SHALL BE INSTALLED ABOVE CEILING WITH PIPE INVERT +4 INCHES ABOVE THE CEILING.
11. ALL PLUGGED OR CAPPED VENT OUTLETS FOR FUTURE CONNECTIONS SHALL BE INSTALLED ABOVE CEILING WITH PIPE INVERT 12" FROM BOTTOM OF SLAB.
12. SEE RISER DIAGRAMS FOR ALL PIPE SIZING FOR ALL PLUMBING SYSTEMS.
13. FIRE PROTECTION PIPING AND EQUIPMENT SHOWN IS FOR REFERENCE ONLY. FOR FIRE PROTECTION PIPING SEE FIRE SPRINKLER SHOP DRAWINGS. FIRE SPRINKLER DESIGN/BUILD CONTRACTOR SHALL COORDINATE HIS WORK DURING SHOP DRAWING PHASE, WITH ROOF DRAINS AND LINES AS SHOWN AND SHALL MAKE PROVISIONS FOR FUTURE DUCTWORK AND FINISHED CEILINGS.
14. FIRE RISERS SUBJECT TO FIRE AUTHORITY APPROVAL.
15. ALL WALL MOUNTED ACCESS PANELS AND WALL CLEANOUTS SHALL BE MOUNTED AS LOW AS POSSIBLE UNLESS NOTED OTHERWISE OR AS INDICATED IN ARCHITECTURAL PLANS OR AS REQUIRED. CONTRACTOR SHALL GET ARCHITECT AND ENGINEER APPROVAL FOR ALL LOCATIONS PRIOR TO INSTALLATION OF WALL GYPSUM BOARD.
16. THESE DRAWINGS ARE DIAGRAMMATIC . THE LOCATION & ELEVATION OF ALL PLUMBING PIPING IS APPROXIMATE AND SHALL BE VERIFIED AND COORDINATED WITH ALL OTHER TRADES, STRUCTURAL CONDITIONS AND BUILDING CONSTRUCTION PRIOR TO START OF INSTALLATION.
17. PENETRATIONS OF PIPES, ETC , IN WALLS REQUIRING PROTECTED OPENINGS SHALL BE FIRE STOPPED. FIRE STOP MATERIAL SHALL BE A TESTED ASSEMBLY APPROVED BY THE STATE FIRE MARSHAL.
18. ALL HOT AND COLD WATER PIPE SHALL BE INSULATED INCLUDING PIPING IN THE WALLS.
    WATER SUPPLY AND DRAIN PIPES UNDER LAVATORIES AND SINKS SHALL BE INSULATED OR OTHERWISE CONFIGURED TO PROTECT AGAINST CONTACT. THERE SHALL BE NO SHARP OR ABRASIVE SURFACES UNDER LAVATORIES AND SINKS.
19. ALL REQUIRED CLEANOUTS SHALL BE INSTALLED AS PER SECTION 707.0 OF THE PLUMBING CODE.
20. ROOF DRAIN AND OVERFLOW PIPING WITHIN THE BUILDING SHALL UTILIZE APPROVED DRAINAGE FITTINGS.
21. CLEANOUTS FOR BUILDING STORM DRAINS SHALL COMPLY WITH THE REQUIREMENTS OF SECTION 719.0 OF THE PLUMBING CODE.
22. NEW BUILDING STORM DRAINAGE SYSTEM AND PARTS OF EXISTING SYSTEMS THAT HAVE BEEN ALTERED, EXTENDED OR REPAIRED SHALL BE TESTED AS DESCRIBED IN SECTION 1109.0 OF THE PLUMBING CODE.
23. DIELECTRIC UNIONS SHALL BE USED AT ALL POINTS OF CONNECTION WHERE THERE IS A DISSIMILARITY OF METALS.
24. ALL VENTS THROUGH ROOF SHALL MAINTAIN A MINIMUM OF 25 FT. CLEARANCE AND 3 FEET ABOVE OF ANY WINDOW, DOOR, OPENING, AIR INTAKE OR VENT SHAFT. (FOR NON-OSHPD-3 BLDGS.
25. HOT WATER TEMPERATURE LIMITATION DEVICE SHALL BE INSTALLED FOR PUBLIC LAVATORIES, SHOWERS & TUBS (WHIRLPOOL) IN ACCORDANCE WITH ASSE 1070 & 1069, RESPECTIVELY.

## LEGEND

| SYMBOL | ABBR. | DESCRIPTION |
|---|---|---|
| | S OR W | SOIL OR WASTE ABOVE FLOOR OR GRADE |
| | S OR W | SOIL OR WASTE BELOW FLOOR OR GRADE |
| AW | AW | ACID WASTE ABOVE FLOOR OR GRADE |
| AW | AW | ACID WASTE BELOW FLOOR OR GRADE |
| SD | SD | STORM DRAIN ABOVE FLOOR OR GRADE |
| SD | SD | STORM DRAIN BELOW FLOOR OR GRADE |
| OD | OD | OVERFLOW DRAIN ABOVE FLOOR OR GRADE |
| OD | OD | OVERFLOW DRAIN BELOW FLOOR OR GRADE |
| | V | SANITARY VENT |
| | CW | COLD WATER |
| ICW | ICW | INDUSTRIAL COLD WATER |
| | HW | HOT WATER |
| | HWR | HOT WATER RETURN |
| F | F | FIRE MAIN |
| D | D | INDIRECT DRAIN LINE |
| CD | CD | CONDENSATE DRAIN |
| SCD | SCD | SECONDARY CONDENSATE DRAIN |
| PCD | PCD | PUMPED CONDENSATE DRAIN |
| | | |
| G | G | FUEL GAS |
| MG | MG | MEDIUM PRESSURE FUEL GAS, 5 PSI |
| TP | TP | TRAP PRIMER |
| RTP | RTP | RECYCLED WATER TRAP PRIMER |
| | | DIRECTION OF FLOW |
| | P.G. | PRESSURE GAUGE W/PETE COCK |
| | G.C. | GAS COCK |
| | P.R.V. | PRESSURE REDUCING VALVE |
| | G.V. | GATE VALVE |
| | L.B.V. | LOCKING BALL VALVE |
| | FCO | FLOOR CLEANOUT |
| | WCO | WALL CLEANOUT |
| | | DOWN |
| | | RISE |
| | | UNION |
| | | SLOPE IN DIRECTION OF FLOW |
| | W.H.A. | WATER HAMMER ARRESTOR |
| | P.O.C. | POINT OF CONNECTION |
| | RPBP | REDUCED PRESSURE BACKFLOW PREVENTER |
| (E) | EXIST. (E) | EXISTING |
| | ABV. | ABOVE |
| | A.F.F. | ABOVE FINISHED FLOOR |
| | A.P. | ACCESS PANEL |
| | ASS'Y | ASSEMBLY |
| | BEH. | BEHIND |
| | BEL. | BELOW |
| | BLDG. | BUILDING |
| | BMCS | BUILDING MANAGEMENT AND CONTROL SYSTEM |
| | C.I. | CAST IRON |
| | CLG. | CEILING |
| | COTG | CLEANOUT TO GRADE |
| | CO. | CLEAN OUT |
| | CONT. | CONTINUATION |
| | FFE | FINISHED FLOOR ELEVATION |
| | DET. | DETAIL |
| | DN | DOWN |
| | DWG'S | DRAWINGS |
| | EA | EACH |
| | ELEC. | ELECTRIC |
| | EQUIP | EQUIPMENT |
| | FH | FIRE HYDRANT |
| | FIN | FINISHED |
| | FU | FIXTURE UNIT |
| | FLR | FLOOR |
| | FR. | FROM |
| | GPF | GALLONS PER FLUSH |
| | GPM | GALLONS PER MINUTE |
| | GR | GRADE |
| | HDR | HEADER |
| | I.E. | INVERT ELEVATION |
| | MECH | MECHANICAL |
| | TYP | TYPICAL |
| | VTR | VENT THROUGH ROOF |
| | W/ | WITH |

OWNER: SRCS VENETIA VALLEY K-8

PROJECT NAME: CLASSROOM REPLACEMENT AND NEW MPR BUILDING

CLIENT ADDRESS: 177 N San Pedro Rd, San Rafael, CA 94903

100% DD PROGRESS SET


REGISTERED PROFESSIONAL ENGINEER LARRY SUN No. M25633 EXP 09-30-18 MECHANICAL STATE OF CALIFORNIA

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DATE ISSUED: 07/14/2017
PROJECT NO:
SCALE:

SHEET NUMBER: **P0.1**

SHEET TITLE:

# LEGENDS, SYMBOLS AND NOTES


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## WATER HEATER SIZING (BLDG D)

BLDG TYPE: SCHOOL DELTA T: 60°F DEMAND FACTOR: 0.40 STORAGE CAPACITY FACTOR: 1.0

| FIXTURE | QTY | GPH | TOTAL GPH |
|---|---|---|---|
| PUB LAV | 6 | 15 | 90 |
| SVC.SINK | 1 | 20 | 20 |
| | | | |
| | | | |
| | | | |
| TOTAL DEMAND | | | 110 |

CALCULATION:
GPH x DF x SCF = PROB MAX DEMAND
215 x 0.40 x 1 = 86 GAL

BTUH (INPUT) DEMAND:
GPH x 8.33 x TEMP. RISE / % EFFICIENCY = BTUH DEMAND
86 x 8.33 x 60 (42,982) / 90% = 47,758 BTUH

## WATER HEATER SIZING (BLDG E)

BLDG TYPE: SCHOOL DELTA T: 60°F DEMAND FACTOR: 0.40 STORAGE CAPACITY FACTOR: 1.0

| FIXTURE | QTY | GPH | TOTAL GPH |
|---|---|---|---|
| PUB LAV | 12 | 15 | 180 |
| SINK | 4 | 10 | 40 |
| | | | |
| SVC.SINK | 1 | 20 | 20 |
| | | | |
| TOTAL DEMAND | | | 240 |

CALCULATION:
GPH x DF x SCF = PROB MAX DEMAND
1920 x 0.40 x 1 = 768 GAL

BTUH (INPUT) DEMAND:
GPH x 8.33 x TEMP. RISE / % EFFICIENCY = BTUH DEMAND
768 x 8.33 x 60 (524,790) / 90% = 26,496 BTUH

## GAS WATER HEATER

| UNIT NO. | MANUFACTURER & MODEL NO. | NO. | LOCATION | SERVICE | REC @ 60° ΔT (GPH) | INLET TEMP °F | OUTLET TEMP °F | GAS INPUT (CFH) | EFFICIENCY | OPER. WT. LBS. | REMARKS |
|---|---|---|---|---|---|---|---|---|---|---|---|
| GWH 1 | AO SMITH AO SMITH #BTH-400 | 1 | ON CONCRETE PAD | DOMESTIC HOT WATER | 400 | 60 | 120 | 400 | 95% | 2200 | 120V / SINGLE PHASE / 20 AMPS 119 GAL STORAGE. DIMS: 34" DIA x 76" HT |
| GWH 2 | AO SMITH AO SMITH #BTX-80 | 1 | ON CONCRETE PAD | DOMESTIC HOT WATER | – | 60 | 120 | 76 | 90% | 800 | 120V / SINGLE PHASE / 20 AMPS 50 GAL STORAGE. DIMS: 22" DIA x 72" HT |
| | | | | | | | | | | | |

## CIRCULATING PUMP

| UNIT NO. | MANUFACTURER & MODEL NO. | LOCATION | SERVICE | TYPE | GPM | TDH FT | MOTOR | | | | | OPER. WT. LBS. | REMARKS |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | | | | | | | HP | RPM | V | PH | HZ | | |
| CP-1 | B & G SERIES 100 | ROOF ON CONCRETE PAD | DOMESTIC HOT WATER | IN-LINE | 10 | 10 | 1/12 | 1750 | 120 | 1 | 60 | 20 | ALL BRONZE WH 7-DAY TIMECLOCK |

## GAS PRESSURE REGULATOR

| UNIT NO. | MANUFACTURER & MODEL NO. | LOCATION | REMARKS |
|---|---|---|---|
| GPR 1 | AMERICAN METERS | ROOF | REDUCE PRESSURE FROM 5 PSI TO 8" WATER COLUMN; TOTAL LOAD>2,000 CFH |

## NATURAL GAS LOAD CALCULATION

| EQUIPMENT | LOAD (CFH) | HVAC LOAD | SUB. TOTAL (CFH) | LOCATION |
|---|---|---|---|---|
| GWH-1 | 400 | 722 | 1122 | - |
| GWH-2 | 76 | 1900 | 1976 | - |
| | | | | |
| | | | | |
| | | TOTAL = | 4268 CFH | |

## GAS SIZING CHART

| (MPG) MEDIUM PRESSURE 5 PSI @ TDL = 2000 FT | | | | | | | | |
|---|---|---|---|---|---|---|---|---|
| PIPE SIZE | 1/2" | 3/4" | 1" | 1-1/4" | 1-1/2" | 2" | 2-1/2" | 3" |
| CFH | 181 | 379 | 714 | 1470 | 2200 | 4230 | 6740 | 11900 |
| LOW PRESSURE 8" w.c. @ TDL = 2000 FT | | | | | | | | |
| PIPE SIZE | 1/2" | 3/4" | 1" | 1-1/4" | 1-1/2" | 2" | 2-1/2" | 3" |
| CFH | - | 20 | 39 | 79 | 119 | 229 | 364 | 644 |

*EXISTING ON-SITE GAS PIPING IS ASSUMED TO BE AT 5 PSI
POINT OF CONNECTION AT NEAR PROXIMITY OF THE BUILDING PER 'AS-BUILT' DRAWINGS

## PIPING MATERIALS

| | MATERIAL: ABOVE GRADE | MATERIAL: BELOW GRADE | CONNECTION TYPE: NO-HUB CAST IRON | NU-HUB COUPLING | DWV ABS | SOLVENT CEMENTED | DWV COPPER | SOLDERED, LEAD FREE | TYPE L COPPER | SOLDERED | TYPE K COPPER | BRAZED | TYPE M COPPER | SCREWED | SCHEDULE 40 BLACK STEEL | WELDED | POLYETHYLENE | ELECTRIC SOCKET FUSION | ORION POLYPROPYLENE | UNDERGROUND WRAP | INSULATION | NOTES |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| SANITARY SEWER | • | | • | • | • | • | | • | | | | | | | | | | | | | • | |
| ACID WASTE | | • | • | • | • | • | | | | | | | | | | | • | | | | • | |
| VENT | • | | | | | • | | | | | | | | | | | | | | | | |
| STORM DRAIN | • | | | | | • | | | | | | | | | | | | | | | • | |
| | | • | | | | • | | | | | | | | | | | | | | | • | |
| DOMESTIC COLD WATER | • | | | | | | • | • | | | | | | | | | | | | | | |
| | | • | | | | | | | • | • | | | | | | | | | | | • | |
| DOMESTIC HOT WATER | • | | | | | | • | • | | | | | | | | | | | | | • | • |
| | | • | | | | | | | • | • | | | | | | | | | | | • | • |
| INDUSTRIAL WATER | • | | | | | | • | • | | | | | | | | | | | | | | |
| CONDENSATE DRAIN | • | | | | | | | | | | | | | | • | • | | | | | • | |
| INDIRECT DRAIN | • | | | | | | | | | | | | | | • | • | | | | | | |
| FUEL GAS | • | | | | | | | | | | | | | | | | | | | | | |
| | | • | | | | | | | | | | | | | | | | | | | | W/TRACER WIRE |

ALL OF THE ABOVE SHALL COMPLY WITH THE SPECIFICATIONS
ALL PIPING BELOW SLAB OR GRADE SHALL BE CORROSION PROTECTED PER SPECIFICATIONS

NOTE:
ALL PIPE, FITTINGS, FIXTURES, ETC. THAT CONTACT POTABLE WATER FOR HUMAN CONSUMPTION SHALL SHOW APPROVAL TO NSF 61, ANNEX "G". EFFECTIVE JANUARY 1, 2010, THE LEAD CONTENT OF THE WETTED SURFACE AREA OF THE PIPES, FITTINGS AND FIXTURES CONVEYING POTABLE WATER FOR HUMAN CONSUMPTION, OF NOT MORE THAN 0.25% SHALL BE DETERMINED PURSUANT TO A PRESCRIBED FORMULA AS DETERMINED BY THIRD PARTY CERTIFIERS TO NSF STANDARD 61, ANNEX "G". REFERENCE SECTION 604.10, CALIFORNIA PLUMBING CODE, 2010 EDITION, AND HEALTH & SAFETY CODE SECTION 116875.

## WATER SYSTEM CALCULATION

AVAILABLE PRESSURE AT BLDG EXTERIOR = -- P.S.I.

TOTAL FIXTURE UNITS:
BLDG D (MPR): 133 FU, 76GPM
BLDG E (CLASSROOM): 155 FU, 82 GPM

| LOSSES: | | BLDG D | BLDG E |
|---|---|---|---|
| (E) 4" METER @ 1200 GPM | = -- P.S.I. | N/A | N/A |
| 4" RPBP @ 1200 GPM | = -- P.S.I. | N/A | N/A |
| STATIC LOSS ( .433 X -- FT.) | = -- P.S.I. | @30' = 12.9 | @30' = 12.9 |
| RESIDUAL FIXTURE | = 25 P.S.I. | 30 PSI | 30 PSI |
| TOTAL | = --- P.S.I. | 29 P.S.I. | 29 P.S.I. |

PRESSURE AVAILABLE FOR FRICTION LOSS: -- PSI - 30 PSI = --.0 P.S.I.

SYSTEM EQUIVALENT LENGTH: (METER TO RESIDUAL FIXTURE) = 450 + 25% = 562.5 FT.

ALLOWABLE AVERAGE LOSS DUE TO FRICTION PER 100 FT. OF PIPE: --.0 PSI / 562.5 FT. X 100 FT. = --.- PSI/100 FT.

COLD WATER SYSTEM SIZING IS BASED ON 3 PSI /100' OR 8 FT. PER SECOND MAXIMUM VELOCITY, WHICHEVER RESTRICTION IS GREATER.

HOT WATER SYSTEM SIZING IS BASED ON 3 PSI /100' OR 5 FT. PER SECOND MAXIMUM VELOCITY, WHICHEVER RESTRICTION IS GREATER.

NOTE:
DOMESTIC HOT AND COLD WATER PIPE SIZING IS IN ACCORDANCE WITH THE REQUIREMENTS OF THE 2013 CALIFORNIA PLUMBING CODE, APPENDIX "A"

## DOMESTIC WATER PIPE SIZING SCHEDULE

(BASED ON 3 PSI/100 FT. OR MAX. VELOCITY OF 8 FPS COLD & 5 FPS HOT)

| SIZE | MAXIMUM FIXTURE UNITS: FLUSH TANK HW | FLUSH TANK CW | FLUSH VALVE | VELOCITY (FT./SEC.) HW | VELOCITY (FT./SEC.) CW | G.P.M. HW | G.P.M. CW |
|---|---|---|---|---|---|---|---|
| ½" | 1 | 1 | 0 | 2.6 | 2.6 | 1.9 | 1.9 |
| ¾" | 6 | 6 | 0 | 3.2 | 3.2 | 4.9 | 4.9 |
| 1" | 13 | 13 | 0 | 3.9 | 3.9 | 10 | 10 |
| 1¼" | 24 | 24 | 0 | 4.4 | 4.4 | 17.4 | 17.4 |
| 1½" | 47 | 47 | 10 | 4.9 | 4.9 | 27 | 27 |
| 2" | 120 | 158 | 64 | 5.0 | 5.9 | 48 | 56.5 |
| 2½" | 246 | 380 | 245 | 5.0 | 6.7 | 71 | 100 |
| 3" | 412 | 691 | 630 | 5.0 | 7.5 | 105 | 160 |

## STORM DRAIN SIZING

2016 CPC, TABLE 1101.7 CITY OF SAN RAFAEL RAINFALL RATE: 2" PER HOUR

| SIZE | SQUARE FOOTAGE: 1/8" PER FOOT SLOPE GPM | 1/8" PER FOOT SLOPE SF | 1/4" PER FOOT SLOPE GPM | 1/4" PER FOOT SLOPE SF |
|---|---|---|---|---|
| 3" | 34 | 1,096 | 48 | 1,546 |
| 4" | 78 | 2,506 | 110 | 3,533 |
| 5" | 139 | 4,453 | 196 | 6,293 |
| 6" | 222 | 7,133 | 314 | 10,066 |
| 8" | 478 | 15,330 | 677 | 21,733 |
| 10" | 860 | 27,600 | 1214 | 38,950 |
| 12" | 1384 | 44,400 | 1953 | 62,600 |

HORIZONTAL RUN IS SIZED AT 1% UNLESS OTHERWISE NOTED.

## PLUMBING FIXTURE SCHEDULE

| UNIT NO. | DESCRIPTION | ROUGH-IN SIZES: TRAP | W | V | CW | HW | REMARKS |
|---|---|---|---|---|---|---|---|
| WC-1 | WATER CLOSET A.S. MADERA #3043.001 | INT. | 4" | 2" | 1" | – | FLOOR MOUNTED, 1.28 GPF MANUAL-OPERATED FLUSH VALVE SLOAN #111-1.28 W/ OLSONITE TOILET SEAT #955SCT |
| WC-2 | WATER CLOSET (ACCESSIBLE) A.S. AFWALL #3043.001 | INT. | 4" | 2" | 1" | – | SAME AS WC-1 FOR ACCESSIBLE TYPE (CBC/ADA); REFER TO ARCH PLANS. |
| | | | | | | | |
| U-1 | URINAL A.S. WASHBROOK #6590.001 | INT. | 2" | 1-1/2" | 3/4" | – | WALL-HUNG, 0.125 GPF MANUAL OPERATED FLUSH VALVE SLOAN #186-0.125 WITH JR SMITH 0636 SERIES |
| U-2 | URINAL (ACCESSIBLE) A.S. WASHBROOK #6590.001 | INT. | 2" | 1-1/2" | 3/4" | – | SAME AS U-1 EXCEPT MOUNTED AT ACCESSIBLE HEIGHT (CBC/ADA); REFER TO ARCH. |
| | | | | | | | |
| L-1 | LAVATORY (ACCESSIBLE) A.S. LUCERNE #0356.421 | 2" | 2" | 1-1/2" | 1/2" | – | WALL-HUNG, WITH MANUAL FAUCET AT 0.35 GPM CHICAGO #333-665E39PSHABCP #1017 MOUNT AT ACCESSIBLE HEIGHT (CBC/ADA). REFER TO ARCH TO MOUNTING HEIGHT. PROVIDE WITH MCGUIRE SUPPLY & DRAIN PROWRAP. |
| L-2 | LAVATORY (ACCESSIBLE) A.S. LUCERNE #0356.004 | 2" | 2" | 1-1/2" | 1/2" | 1/2" | WALL-HUNG, WITH MANUAL FAUCET AT 0.35 GPM CHICAGO #802.317ABCP WITH #1017 COMPLETE W/ TMV; MOUNT AT ACCESSIBLE HEIGHT (CBC/ADA). REFER TO ARCH PLANS FOR MOUNTING HEIGHT. PROVIDE WITH MCGUIRE SUPPLY & DRAIN PROWRAP & WATTS #LFMMV. |
| | | | | | | | |
| DF-1 | DRINKING FOUNTAIN ELKAY #EZSTLBWSK | 2" | 2" | 1-1/2" | 1/2" | – | HI-LO W/ BOTTLE FILLER, STAINLESS STEEL, VANDAL RESISTANT (CBC/ADA). 120 V/60 Hz; PROVIDE WITH (1) GFCI QUAD RECEPTACLE. |
| | | | | | | | |
| S-1 | SINK JUST #SL-ADA-1925-AGR | 1-1/2" | 2" | 1-1/2" | 1/2" | 1/2" | SINGLE COMPARTMENT, STAINLES STEEL W/ MANUAL WRIST-BLADE FAUCET AT 1.5 GPM CHICAGO #2301-BE34ABCP |
| | | | | | | | |
| SS-1 | SERVICE SINK A.S. FLORWELL #7741.000 WITH #7745.811 | 3" | 3" | 2" | 3/4" | 3/4" | FLOOR MOUNTED, CORNER TYPE, ENAMELED CAST IRON W/ VINYL RIM GUARD, 3" OUTLET, W/ TOP BRACE FAUCET, BUCKET HOOK, VB AND HOSE; CHICAGO FAUCET #897-RCP |
| MV-1 | ELECTRONIC MIXING VALVE HEAT TIMER MODEL #915625-00 | – | – | – | – | – | OR EQUAL BY LEONARD OR BRADLEY |
| TMV-1 | THERMOSTATIC MIXING VALVE WATTS #LFMMV | – | – | – | – | – | TEMPERATURE-LIMITING DEVICE FOR LAVATORIES; SET OUTLET TEMPERATURE TO 105°F |
| | | | | | | | |
| FS-1 | FLOOR SINK J.R.SMITH #3150Y-12 | 2" | 2" | 2" | 1/2" TP | – | ACID RESISTANT COATED, CAST IRON DRAIN, DOME STRAINER & DECK CLAMP, 3/4 GRATE FOR DISCHARGE PIPES. |
| FD-1 | FLOOR DRAIN J.R.SMITH #2005 | 2"/4" | 2"/4" | -1/2"/2" | 1/2" TP | – | JR SMITH #2005-A COMPLETE WITH TRAP PRIMER CONNECTION. SEE FLOOR PLANS FOR EXACT SIZE. |
| RR-1 | ROOF RECEPTOR J.R.SMITH #3980Y | 2" | 2" | 2" | – | – | DUCO CAST IRON BODY WITH COMBINED FLASHING CLAMP AND GRAVEL STOP W/ CAST IRON DOME |
| RD/OD-1 | ROOF/OVERFLOW DRAIN MIFAB #R1150 | REFER TO ROOF PLAN FOR SIZING | | | | | COMBINED ROOF & SECONDARY DRAIN SYSTEM; GALVANIZED SUMP RECEIVER, CAST IRON (C.I.) DRAIN BODIES WITH ANCHOR FLANGES, C.I. WATER PROOFING MEMBERANE CLAMP RINGS |
| | | | | | | | |
| TP-1 | TRAP PRIMER MIFAB #M2-500 | – | – | – | 1/2" | – | WITH MI-GAP-NPB AIR GAP FITTING (AND DISTRIBUTION UNIT) BEHIND ACCESS PANEL |
| ETP-1 | ELECTRONIC TRAP PRIMER MIFAB #MI-300-120VAC | – | – | – | 1/2" | – | ELECTRONIC TRAP PRIMER FOR FIRE RISER |
| WHA | WATER HAMMER ARRESTER MIFAB #MWH | – | – | – | – | – | PISTON OPERATED |
| | | | | | | | |
| IMB-1 | ICE MAKER BOX GUY GRAY #57978 | – | – | – | 1/2" | – | WITH INTEGRAL LEAD-FREE HAMMER ARRESTER QUARTER TURN VALVE. |
| HB-1 | HOSE BIBB (EXTERIOR) ACORN #8104 | – | – | – | 3/4" | – | HOSE & SUPPLY BOX WITH VACUUM BREAKER |
| HB-2 | HOSE BIBB (INTERIOR) ACORN #8121-LF | – | – | – | 3/4" | – | WITH VACUUM BREAKER |
| HB-3 | HOSE BIBB (ROOFTOP) ACORN #8126 | – | – | – | 3/4" | – | WITH VACUUM BREAKER |
| | | | | | | | |
| SGV-1 | SEISMIC GAS VALVE KOSO / PACIFIC GAS VALVE | – | – | – | – | – | – – |

NOTE: ALL DRAINS CONNECTED TO THE SEWER SUBJECT TO INFREQUENT USE SHALL BE PROVIDED WITH A TRAP PRIMER.

## HOT WATER PIPE INSULATION SCHEDULE

| PIPE SIZE | INSULATION THICKNESS | R VALUE GREATER THAN |
|---|---|---|
| 1/2" | 1.0" | 4.0 |
| 3/4" | 1.0" | 4.0 |
| 1" | 1.5" | 4.0 |
| 1 1/4" | 1.5" | 4.0 |
| 1 1/2" | 1.5" | 4.0 |
| 2" | 1.5" | 4.0 |

OWNER: SRCS VENETIA VALLEY K-8

PROJECT NAME: CLASSROOM REPLACEMENT AND NEW MPR BUILDING

CLIENT ADDRESS: 177 N San Pedro Rd, San Rafael, CA 94903

100% DD PROGRESS SET

REGISTERED PROFESSIONAL ENGINEER LARRY SUN No. M25633 EXP 09-30-18 MECHANICAL STATE OF CALIFORNIA

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Project Manager: Kiki Rodriguez
tklsc Job #: 2017-0452

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SCHEDULES

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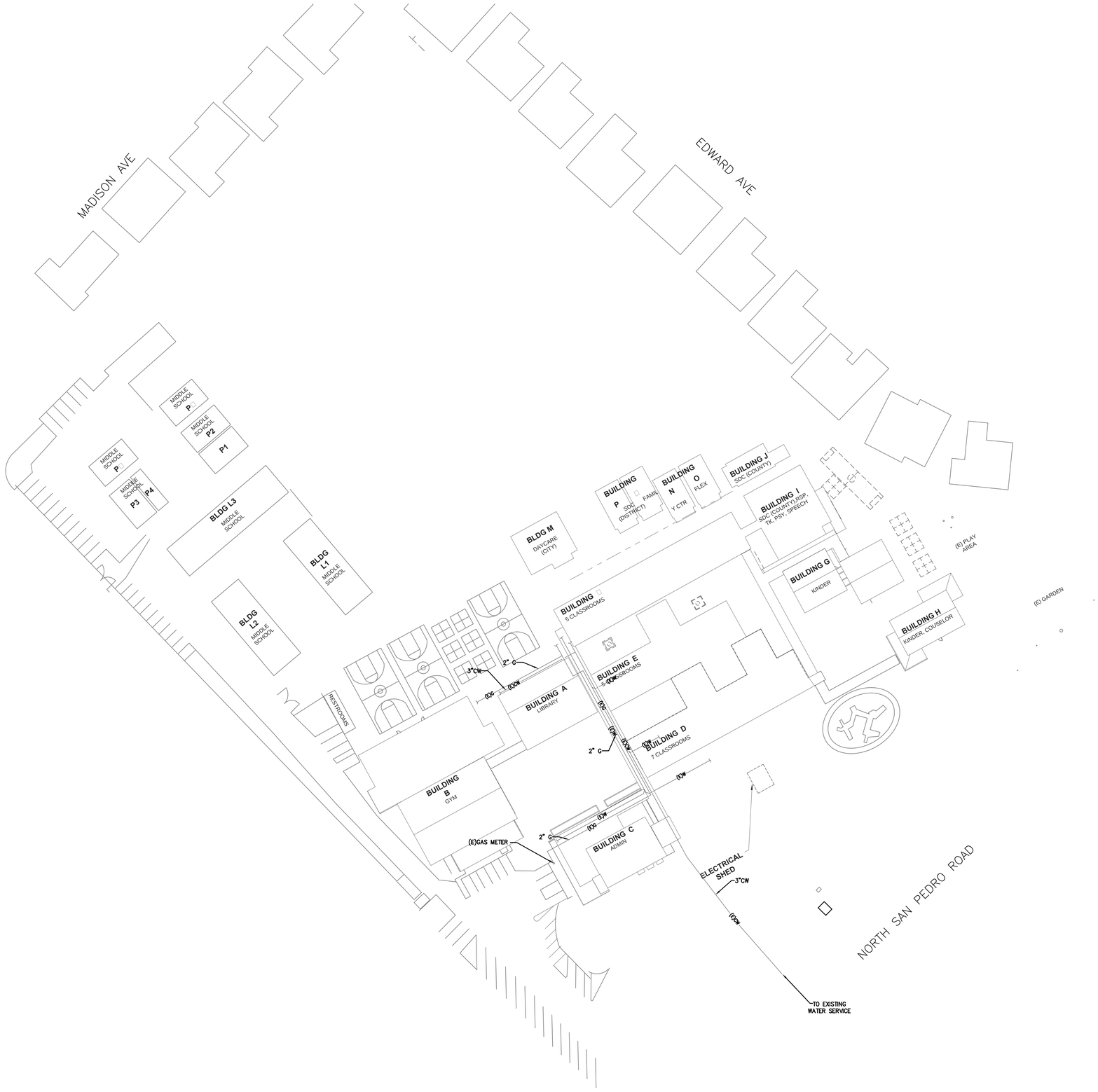


## 1 DEMOLITION SITE PLAN
1" = 40'-0"

**OWNER:** SRCS VENETIA VALLEY K-8

**PROJECT NAME:** CLASSROOM REPLACEMENT AND NEW MPR BUILDING

**CLIENT ADDRESS:** 177 N San Pedro Rd, San Rafael, CA 94903

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Project Manager - Nikki Rodriguez
tk1sc Job #: 2017-0452


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# OVERALL PLUMBING DEMOLITION SITE PLAN


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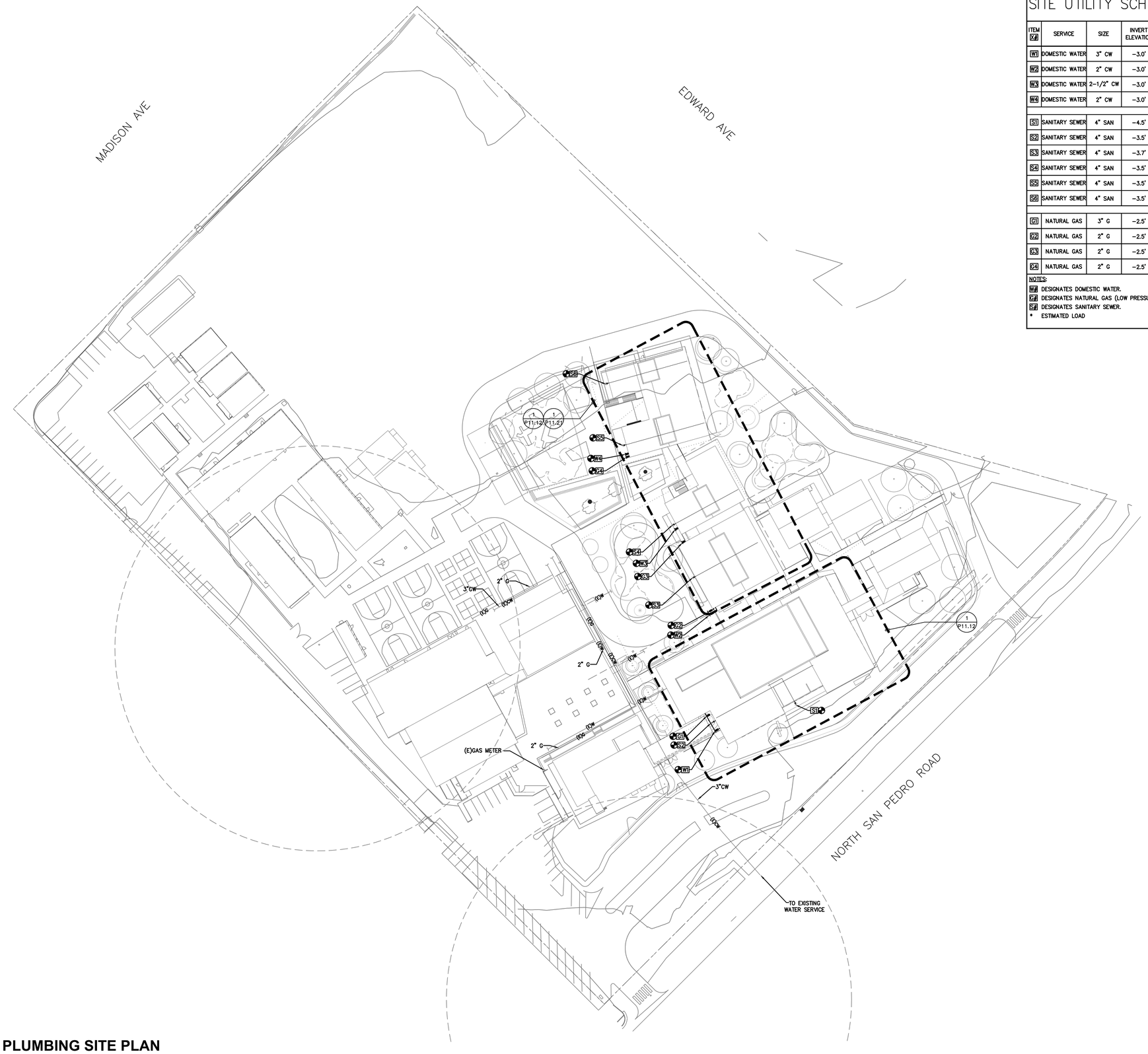
## SITE UTILITY SCHEDULE

| ITEM X.# | SERVICE | SIZE | INVERT ELEVATION | ANTICIPATED LOAD |
|---|---|---|---|---|
| W1 | DOMESTIC WATER | 3" CW | -3.0' | *133 FU |
| W2 | DOMESTIC WATER | 2" CW | -3.0' | 19 FU |
| W3 | DOMESTIC WATER | 2-1/2" CW | -3.0' | 59 FU |
| W4 | DOMESTIC WATER | 2" CW | -3.0' | 14 FU |
| S1 | SANITARY SEWER | 4" SAN | -4.5' | *80 DFU |
| S2 | SANITARY SEWER | 4" SAN | -3.5' | 83 DFU |
| S3 | SANITARY SEWER | 4" SAN | -3.7' | 18 DFU |
| S4 | SANITARY SEWER | 4" SAN | -3.5' | 35 DFU |
| S5 | SANITARY SEWER | 4" SAN | -3.5' | 4 DFU |
| S6 | SANITARY SEWER | 4" SAN | -3.5' | 14 DFU |
| G1 | NATURAL GAS | 3" G | -2.5' | 600 CFH* |
| G2 | NATURAL GAS | 2" G | -2.5' | 400 CFH* |
| G3 | NATURAL GAS | 2" G | -2.5' | 400 CFH* |
| G4 | NATURAL GAS | 2" G | -2.5' | 400 CFH* |

NOTES:
W# DESIGNATES DOMESTIC WATER.
G# DESIGNATES NATURAL GAS (LOW PRESSURE, 8" wc).
S# DESIGNATES SANITARY SEWER.
* ESTIMATED LOAD




1 **PLUMBING SITE PLAN**
1" = 40'-0"

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# PLUMBING SITE PLAN


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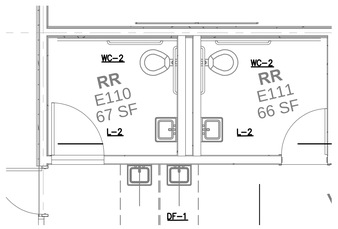
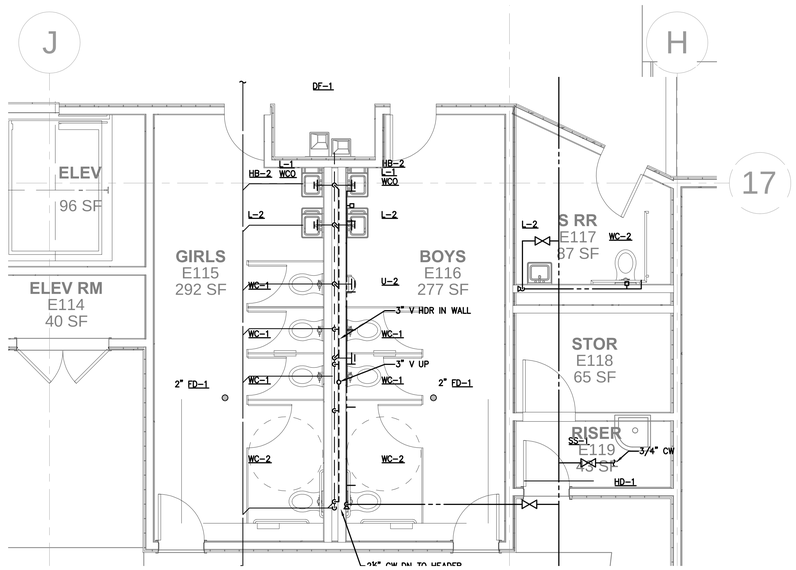
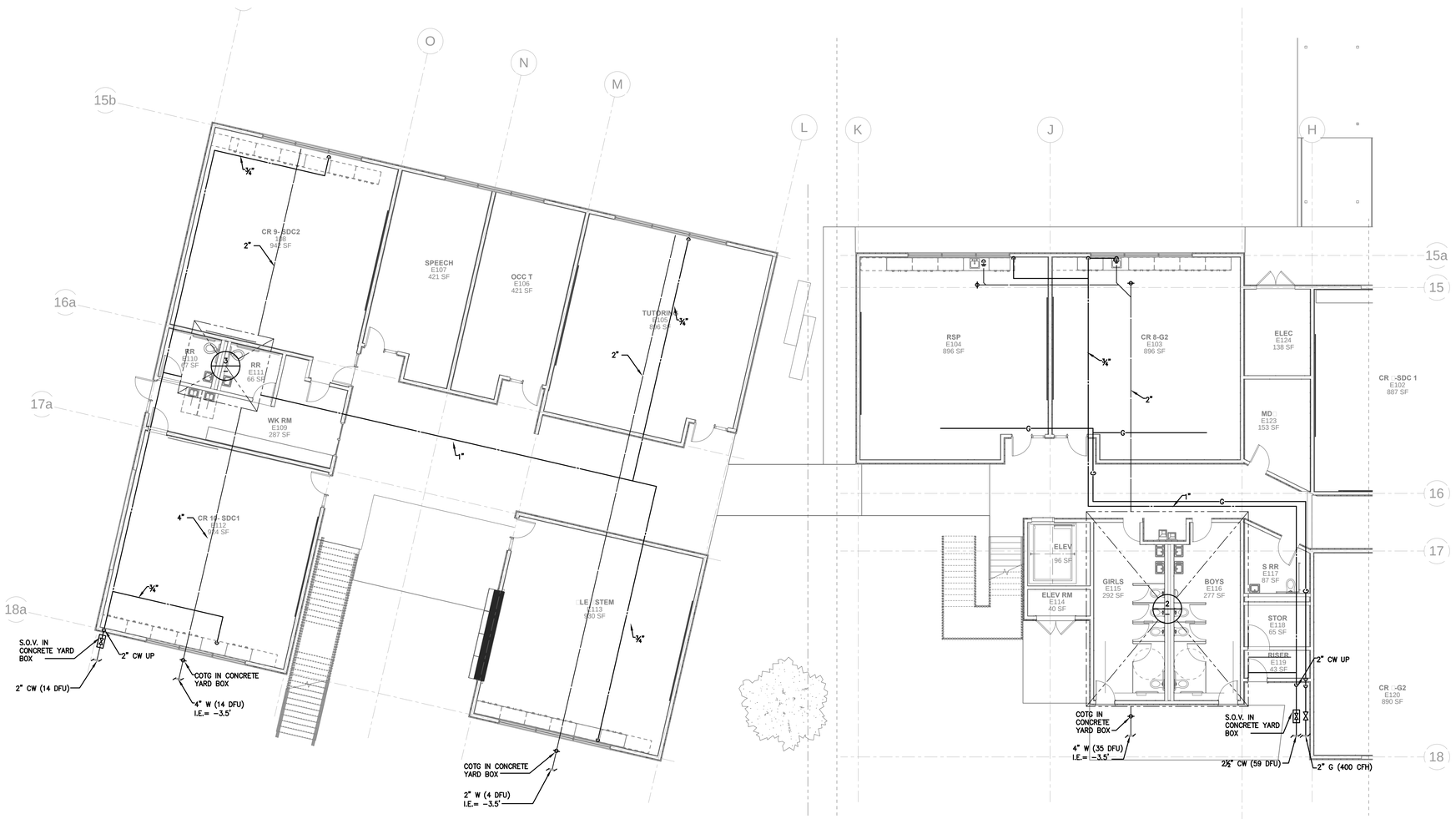



## 3 ENLARGED PLUMBING PLAN, RESTROOM
1/4" = 1'-0"




## 2 FLOOR PLAN - LEVEL 2 SEGMENT A
1/8" = 1'-0"




## 1 FLOOR PLAN - LEVEL 1 SEGMENT A
1/8" = 1'-0"

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**DATE ISSUED:** 07/14/2017

**PROJECT NO:**

**SCALE:** 1/8" = 1'-0"

**SHEET NUMBER** P11.11A

**SHEET TITLE:**

# FIRST FLOOR PLAN - BUILDING E SEGMENT A


3 MACARTHUR PLACE, SUITE 850 SANTA ANA, CA 92707
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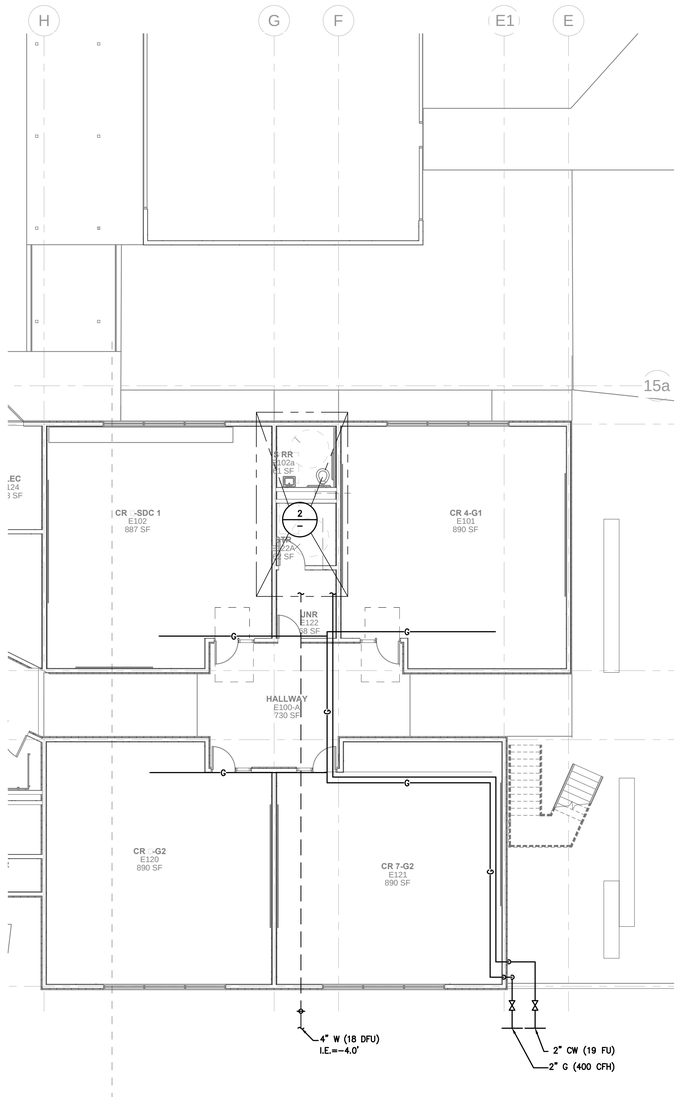
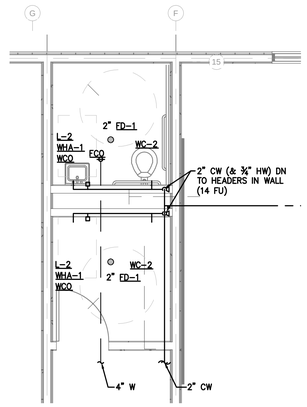



## 1 FLOOR PLAN - LEVEL 1 SEGMENT B

1/8" = 1'-0"




## 2 ENLARGED PLAN, RESTROOM

1/4" = 1'-0"

**OWNER:** SRCS VENETIA VALLEY K-8

**PROJECT NAME:** CLASSROOM REPLACEMENT AND NEW MPR BUILDING

**CLIENT ADDRESS:** 177 N San Pedro Rd, San Rafael, CA 94903

100% DD PROGRESS SET


REGISTERED PROFESSIONAL ENGINEER LARRY SUN No. M25633 EXP 09-30-18 MECHANICAL STATE OF CALIFORNIA

tk1sc COLLABORATIVE

11870 Pierce Street, Suite 160
Riverside, California 92505
951.299.4160 www.tk1sc.com

Project Manager-Joel Baldovino
tk1sc Job #: 2017-0452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**DATE ISSUED:** 07/14/2017

**PROJECT NO:**

**SCALE:** 1/8" = 1'-0"

**SHEET NUMBER:** P11.21B

**SHEET TITLE:**

# OVERALL FLOOR PLANS - BUILDING E LEVEL 1 SEGMENT B


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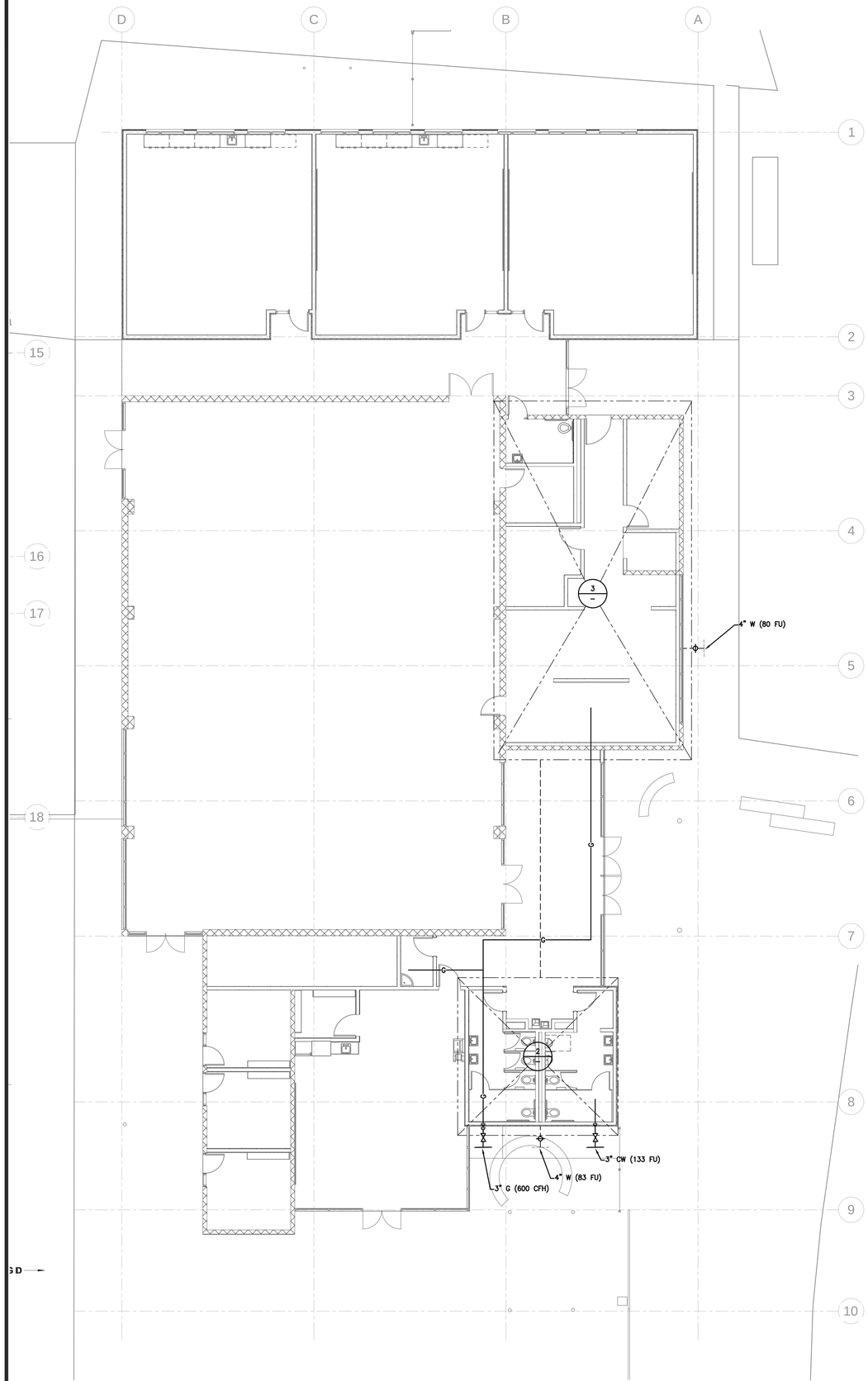
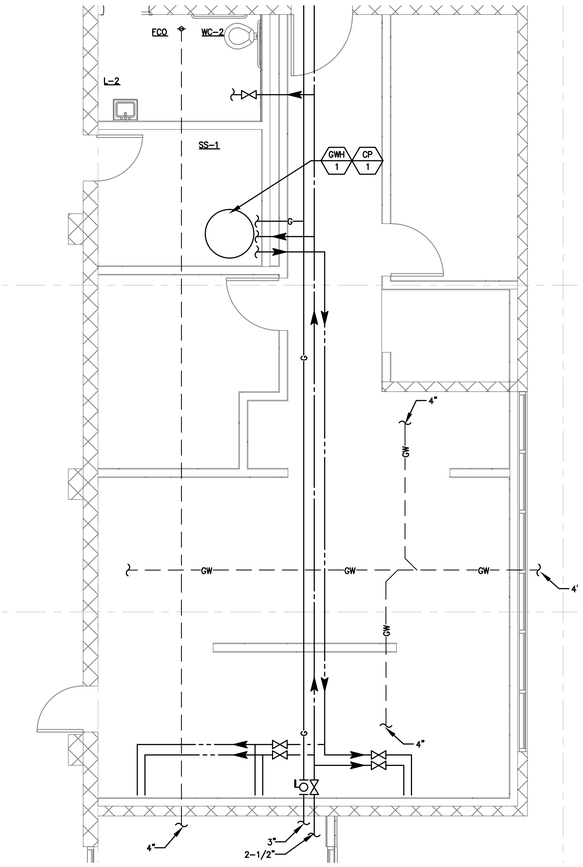
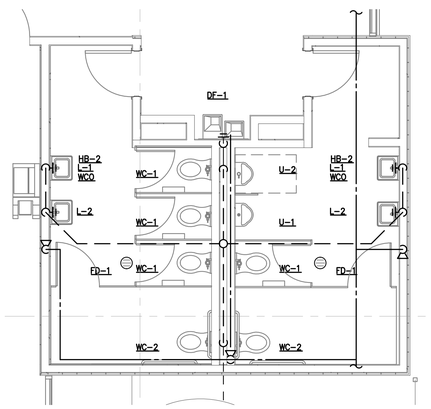



## 1 FLOOR PLAN
1/8" = 1'-0"




## 3 ENLARGED PLUMBING PLAN, KITCHEN
1/4" = 1'-0"




## 2 ENLARGED PLUMBING PLAN, RESTROOM
1/4" = 1'-0"

KEYNOTES:

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**OWNER:** SRCS VENETIA VALLEY K-8

**PROJECT NAME:** CLASSROOM REPLACEMENT AND NEW MPR BUILDING

**CLIENT ADDRESS:** 177 N San Pedro Rd, San Rafael, CA 94903

100% DD PROGRESS SET


REGISTERED PROFESSIONAL ENGINEER LARRY SUN No. M25633 EXP 09-30-18 MECHANICAL STATE OF CALIFORNIA

tk1sc COLLABORATIVE
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Riverside, California 92505
951.299.4160 www.tk1sc.com
Project Manager: Kiki Rodriguez
tk1sc Job #: 2017-0452


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**DATE ISSUED:** 07/14/2017

**PROJECT NO:**

**SCALE:** 1/8" = 1'-0"

**SHEET NUMBER:** P11.12

**SHEET TITLE:**

# FIRST FLOOR PLAN - BUILDING D


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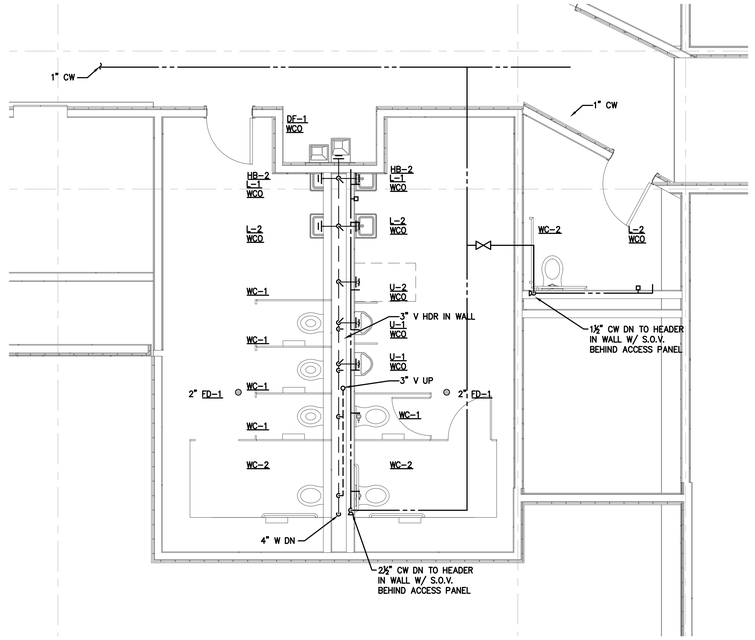
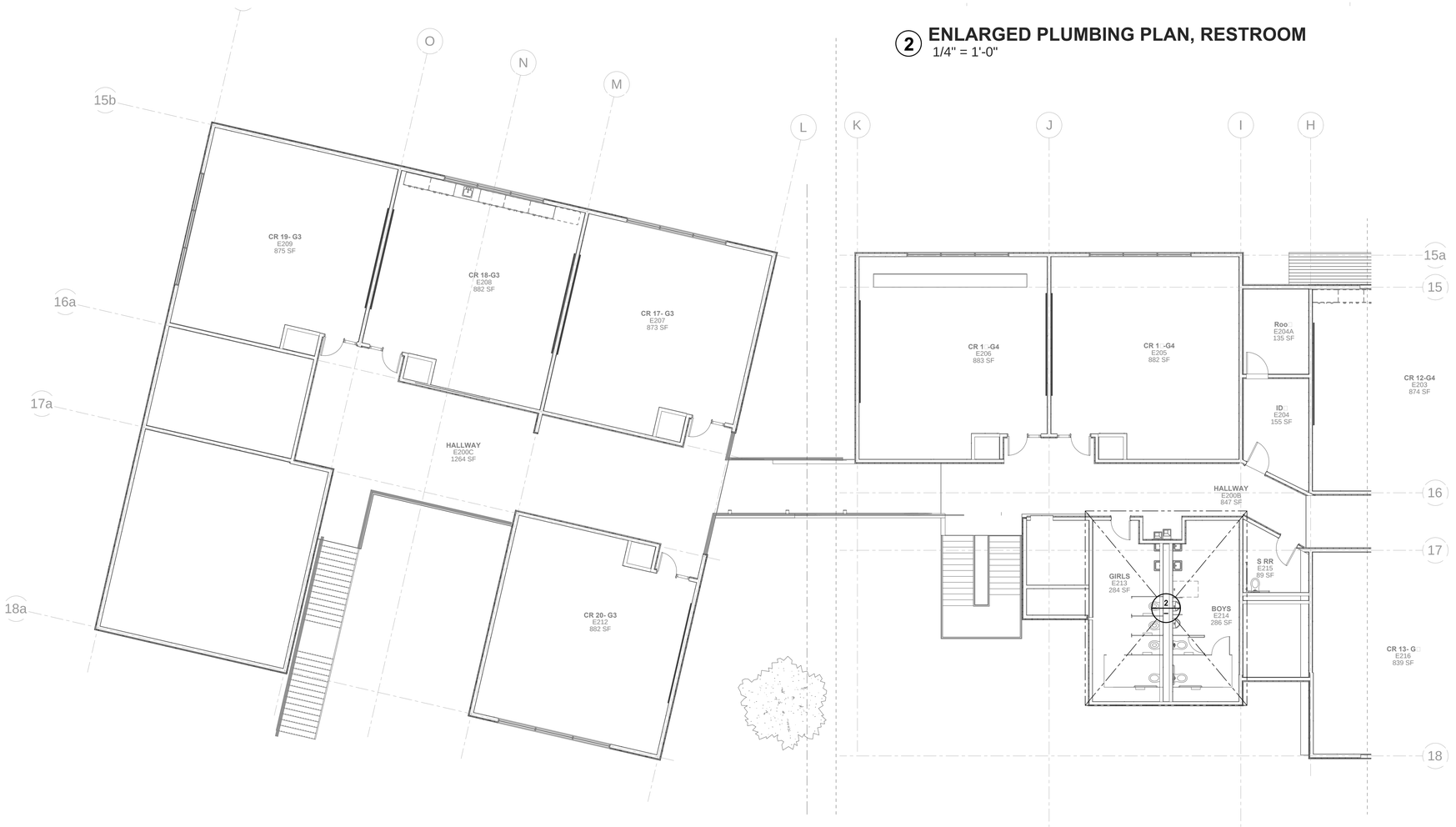



## 2 ENLARGED PLUMBING PLAN, RESTROOM

1/4" = 1'-0"




## 1 □LOOR PLAN - LEVEL 1 SEGMENT A

1/8" = 1'-0"

**OWNER:** SRCS VENETIA VALLEY K-8

**PROJECT NAME:** CLASSROOM REPLACEMENT AND NEW MPR BUILDING

**CLIENT ADDRESS:** 177 N San Pedro Rd, San Rafael, CA 94903

**DD PROGRESS SET**

REGISTERED PROFESSIONAL ENGINEER LARRY SIAS No. M20633 EXP 08-30-18 MECHANICAL STATE OF CALIFORNIA

LICENSED ARCHITECT ROBERT M. SHIMA No. C-18301 Jan 31, 2019 STATE OF CALIFORNIA

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**DATE ISSUED:** 06/05/2017

**PROJECT NO:** Project Number

**SCALE:** 1/16" = 1'-0"

**SHEET NUMBER** P11.21A

**SHEET TITLE:**

# □IRST □LOOR PLAN - BUILDING E SEGMENT A


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Project Manager–Joel Baldovino
tk1sc Job #: 2017–0452



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## 1 FLOOR PLAN - LEVEL 2 SEGMENT B
1/8" = 1'-0"

**OWNER:** SRCS VENETIA VALLEY K-8

**PROJECT NAME:** CLASSROOM REPLACEMENT AND NEW MPR BUILDING

**CLIENT ADDRESS:** 177 N San Pedro Rd, San Rafael, CA 94903

**100% DD PROGRESS SET**


LARRY SUN — No. M35633 EXP 09-30-18 — REGISTERED PROFESSIONAL ENGINEER — MECHANICAL — STATE OF CALIFORNIA

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951.299.4160 www.tk1sc.com
Project Manager - Nikki Rodriguez
tk1sc Job #: 2017-0452


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**DATE ISSUED:** 07/14/2017

**PROJECT NO:**

**SCALE:** 1/8" = 1'-0"

**SHEET NUMBER:** P11.21B

**SHEET TITLE:**

# SECOND FLOOR PLAN - BUILDING E LEVEL 2 SEGMENT B


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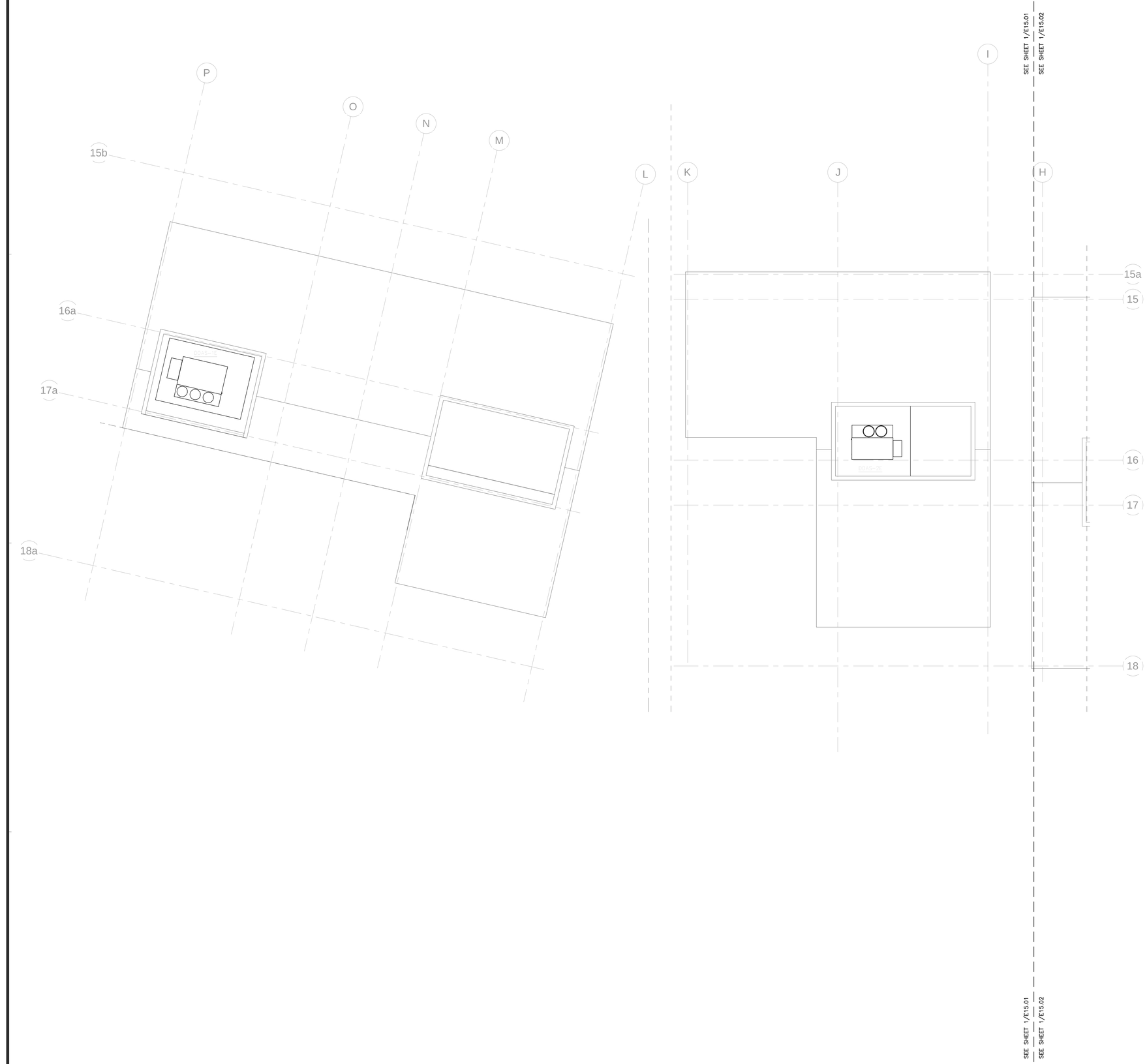


1 ROO PLAN
1/8" = 1'-0"

**OWNER:** SRCS VENETIA VALLEY K-8

**PROJECT NAME:** CLASSROOM REPLACEMENT AND NEW MPR BUILDING

**CLIENT ADDRESS:** 177 N San Pedro Rd, San Rafael, CA 94903

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REGISTERED PROFESSIONAL ENGINEER LARRY SUN No. M35633 EXP 09-30-18 MECHANICAL STATE OF CALIFORNIA

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**DATE ISSUED:** 07/14/2017

**PROJECT NO:**

**SCALE:**

**SHEET NUMBER:** P1 .01

**SHEET TITLE:**

# PLUMBING ROO PLAN - BUILDING E2,E3


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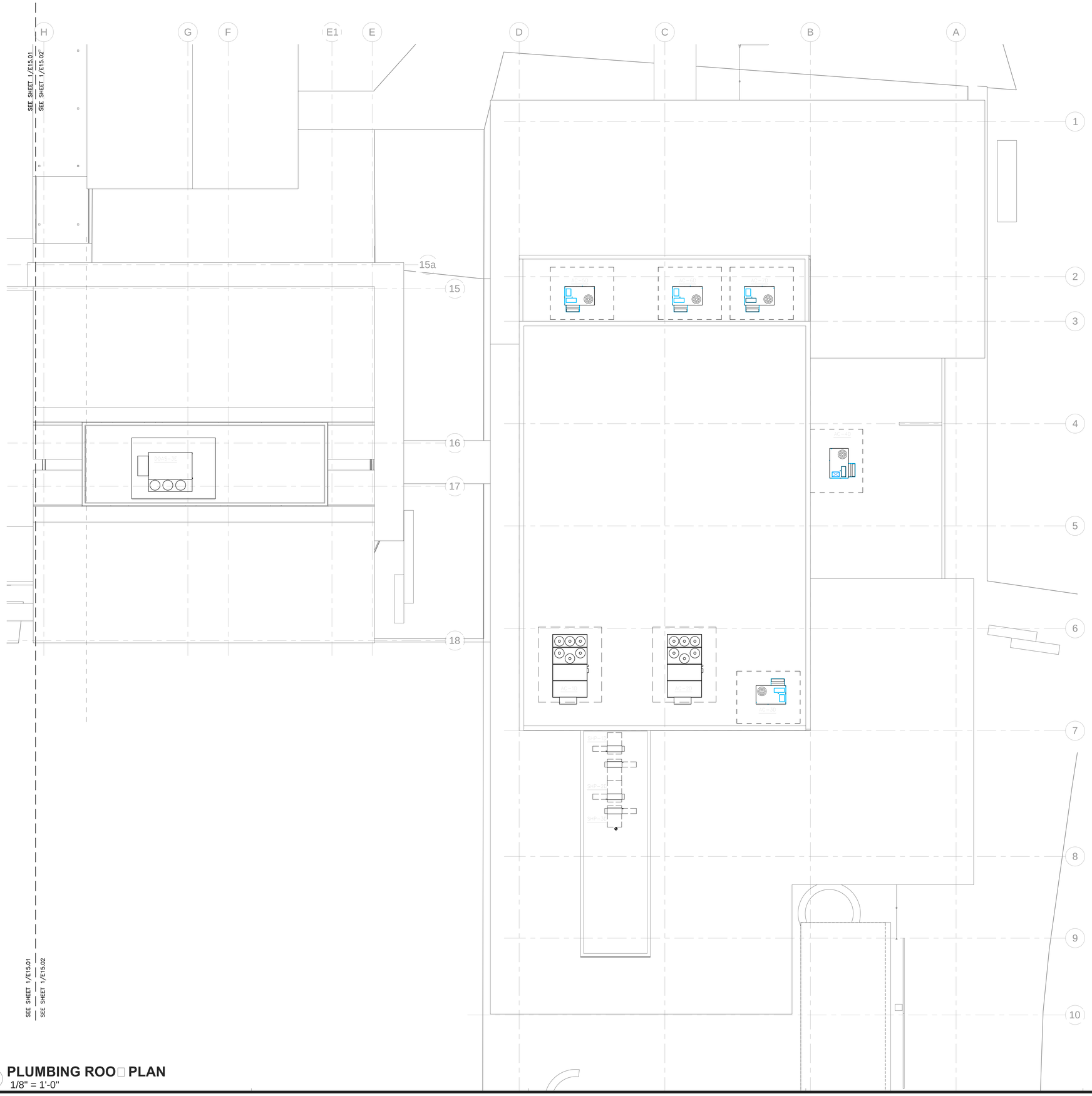


# 1 PLUMBING ROO□ PLAN
1/8" = 1'-0"

**OWNER:** SRCS VENETIA VALLEY K-8

**PROJECT NAME:** CLASSROOM REPLACEMENT AND NEW MPR BUILDING

**CLIENT ADDRESS:** 177 N San Pedro Rd, San Rafael, CA 94903

100% DD PROGRESS SET


REGISTERED PROFESSIONAL ENGINEER LARRY SUN No. M25633 EXP 09-30-18 MECHANICAL STATE OF CALIFORNIA

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Project Manager–Joel Baldovino
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**DATE ISSUED:** 07/14/2017

**PROJECT NO:**

**SCALE:**

**SHEET NUMBER:** P1□.02

**SHEET TITLE:**

**PLUMBING ROO□ PLAN - BUILDING D,E1**


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