

NEVADA JOINT UNION HIGH SCHOOL DISTRICT POOL BUILDING RENOVATION FOR NEVADA UNION HIGH SCHOOL

GENERAL NOTES

DO NOT SCALE THE CONSTRUCTION DOCUMENTS. WRITTEN DIMENSIONS TAKE PRECEDENCE OVER SCALED GRAPHICS. SPECIFICATIONS, DRAWINGS, AND DETAILS TAKE PRECEDENCE OVER THESE GENERAL NOTES.

DO NOT MODIFY, CUT, OR OTHERWISE COMPROMISE THE INTEGRITY OF STRUCTURAL ELEMENTS WITHOUT WRITTEN CONSENT AND GUIDANCE FROM THE STRUCTURAL ENGINEER. CHANGE TO THE APPROVED DRAWINGS AND SPECIFICATIONS SHALL BE MADE BY ADDENDA OR CONSTRUCTION CHANGE DOCUMENT (CCD) APPROVED BY DSA...

FIRE AND LIFE SAFETY NOTES

- 1. ALL INTERIOR FINISHES SHALL CONFORM TO THE REQUIREMENTS OF CBC CHAPTER 8, PART 2, TITLE 24, CCR & CFC & TITLE 19, CCR. ALL INTERIOR WALL AND CEILING FINISHES SHALL COMPLY WITH CBC TABLE 803.1.1, AND HAVE A FLAME SPREAD RATING OF 75 OR LESS...

- 10. PROVIDE A PORTABLE FIRE EXTINGUISHER PER CFC TABLE 906.1 FOR ELECTRICAL ROOMS, MECHANICAL ROOMS, ELEVATOR MACHINE ROOMS, AND TRASH ROOMS. 11. PROVIDE AN APPROPRIATE NUMBER OF PORTABLE FIRE EXTINGUISHERS WITH A RATING OF NOT LESS THAN 4A-60BC FOR PROTECTION DURING CONSTRUCTION.

WHERE PLANS OR EXISTING CONDITIONS INDICATE A RATED ASSEMBLY AT AN EXISTING WALL, VERIFY CONDITION OF EXISTING RATED ASSEMBLY. IF IT IS DETERMINED IN THE FIELD THAT THE RATED ASSEMBLY DOES NOT EXTEND TO THE STRUCTURE ABOVE, CONTACT THE PROJECT INSPECTOR...

CODE ANALYSIS

ALL WORK SHALL CONFORM TO THE FOLLOWING MODEL CODES: 2015 STATE STANDARD SPECIFICATIONS FOR PUBLIC WORKS CONSTRUCTION, 2012 EDITION (THE GREENBOOK) 2016 CALIFORNIA BUILDING CODE (CBC) 2016 CALIFORNIA MECHANICAL CODE (CMC) 2016 CALIFORNIA ELECTRICAL CODE (CEC) 2016 CALIFORNIA ENERGY CODE (CEC T-24) 2016 CALIFORNIA PLUMBING CODE (CPC) 2016 CALIFORNIA FIRE CODE (CFC) 2016 CALIFORNIA GREEN BUILDING CODE 2010 ADA STANDARDS FOR ACCESSIBLE DESIGN 2016 NFPA 13, INSTALLATION OF SPRINKLER SYSTEM 2016 NFPA 72, NATIONAL FIRE ALARM CODE ALL LOCAL CODES AND ORDINANCES

VICINITY MAP



PROJECT INFORMATION

SCOPE: POOL BUILDING RENOVATION, INCLUDING REMODELED LOCKER ROOMS WITH NEW SHOWERS AND TOILET FACILITIES, PARTITIONS, CEILINGS, LIGHTING, FIRE ALARM SYSTEM, HVAC, POOL BOILER, POOL CHEMICAL CONTROL, ACCESSIBLE PARKING AND FLATWORK. SITE: 11761 RIDGE ROAD GRASS VALLEY, USA 95944 APN:35-250-01. OWNER: NEVADA JOINT UNION HIGH SCHOOL DISTRICT 11645 RIDGE ROAD GRASS VALLEY, USA (530) 273-3351, EXT. 227. OCCUPANCY: E (NO CHANGE TO EXISTING OCCUPANCY PROPOSED). OCCUPANTS (PER CBC 1004.1.1): LOCKER ROOMS: 1638 SF/50 (LOCKER ROOMS)+ 33 CHECK ROOM: 390 SF/100 (OFFICE)+ 4 MECHANICAL ROOM: 672 SF/300 (MECH. EQUIP. ROOM)+3 TOTAL: 40 OCCUPANTS. CONSTRUCTION LOCKER ROOMS/CHECK ROOM: TYPE: V-B, NON-SPRINKLERED MECHANICAL ROOM: V-B FULLY SPRINKLERED ADJACENT DANCE BUILDING: V-B. SQUARE FOOTAGE: EXISTING BUILDING: 2700 GROSS SF.

FILE NUMBER: 24-C3 IDENTIFICATION STAMP DIVISION OF THE STATE ARCHITECT 02-116957 AC, BM, FL, MR, SS, PVL DATE: 10/11/2018

ARCHITECT'S SIGNATURE BLOCK

Signature block for Andrew J. Pawlowski, Architect, License No. C 25996, dated 10/31/19.

PROJECT DIRECTORY

ARCHITECT: SITELINE ARCHITECTURE ANDREW PANLONSKI, #C25996 644 ZION STREET NEVADA CITY, CA 95959 (530) 478-9415 FAX: (530) 478-9416 MECHANICAL ENGINEER: MELAS ENERGY ENGINEERING MICHAEL MELAS, #M-26789 547 UREN STREET NEVADA CITY, CA 95959 (530) 265-2492 FAX: (530) 265-2273 POOL MECHANICAL ENGINEER: SUGARPINE ENGINEERING, INC. MARK SCHLOSSER, #M33595 12710 NORNORWOODS BLVD., STE. 3 TRUCKEE, CA 96161 (530) 214-0859 CIVIL ENGINEER: SIERRA LAND SOLUTIONS, INC. BRYAN MCALISTER, #C 058570 11003 BANDOLIER WAY NEVADA CITY, CA 95959 (530) 559-1326 ELECTRICAL ENGINEER: THE ENGINEERING ENTERPRISE SCOTT WHEELER, #E015494 1125 HIGH STREET AUBURN, CA 95603 (530) 886-8556 ext. #102 FAX: (530) 886-8557 STRUCTURAL ENGINEER: LINCHPIN STRUCTURAL ENGINEERING DOUG GADON, #S0946 10031 WEST RIVER STREET TRUCKEE, CA 96161 (530) 563-6341 FIRE PROTECTION: ENGINEERED FIRE SYSTEMS HOWARD MORGADO 11832 TAMMY WAY GRASS VALLEY, CA 95949 (530) 274-9400

STATEMENT OF GENERAL CONFORMANCE

FOR ARCHITECTS/ENGINEERS WHO UTILIZE PLANS INCLUDING BUT NOT LIMITED TO SHOP DRAWINGS, PREPARED BY OTHER LICENSED DESIGN PROFESSIONALS AND/OR CONSULTANTS (Application No. 02-116957 File No. 29-H3) The drawings or sheets listed on the cover or index sheet have been prepared by other design professionals or consultants who are licensed and/or authorized to prepare such drawings in this state. It has been examined by me for: 1) design intent and appears to meet the appropriate requirements of Title 24, California Code of Regulations and the project specifications prepared by me, and 2) coordination with my plans and specifications and is acceptable for incorporation into the construction of this project.

SHEET INDEX

Table with 4 columns: Sheet No., Title, Description, and Notes. Includes sheets A0 through S2.2, covering items like COVER SHEET, PHASING PLAN, GENERAL NOTES, SITEPLAN, DEMO PLAN, GRADING AND DRAINAGE, UTILITY PLAN, GENERAL DETAILS, WATER DETAILS, SEWER DETAILS, RAMP DETAILS, ARCHITECTURAL SITE PLAN, PARTIAL SITE PLAN, DEMOLITION FLOOR PLAN, FLOOR PLAN, PARTIAL FLOOR PLANS, REFLECTED CEILING PLAN, ROOF PLAN, SECTIONS AND ELEVATION, EXTERIOR ELEVATIONS, SCHEDULES, DETAILS, PLUMBING NOTES AND SCHEDULES, PLUMBING DETAILS, PLUMBING DEMOLITION PLANS, PLUMBING PLANS, FIRE PROTECTION PLAN TITLE SHEET, FIRE PROTECTION PLAN MISC. DETAILS, FIRE PROTECTION PLAN HANGER DETAILS, FIRE PROTECTION PLAN SWAY BRACE D..., FIRE PROTECTION PLAN PIPING PLANS, T-24 ENERGY REPORT.



Revisions table with columns for Date, Description, and Author. Entry: 10/9/2018 PLAN CHECK.

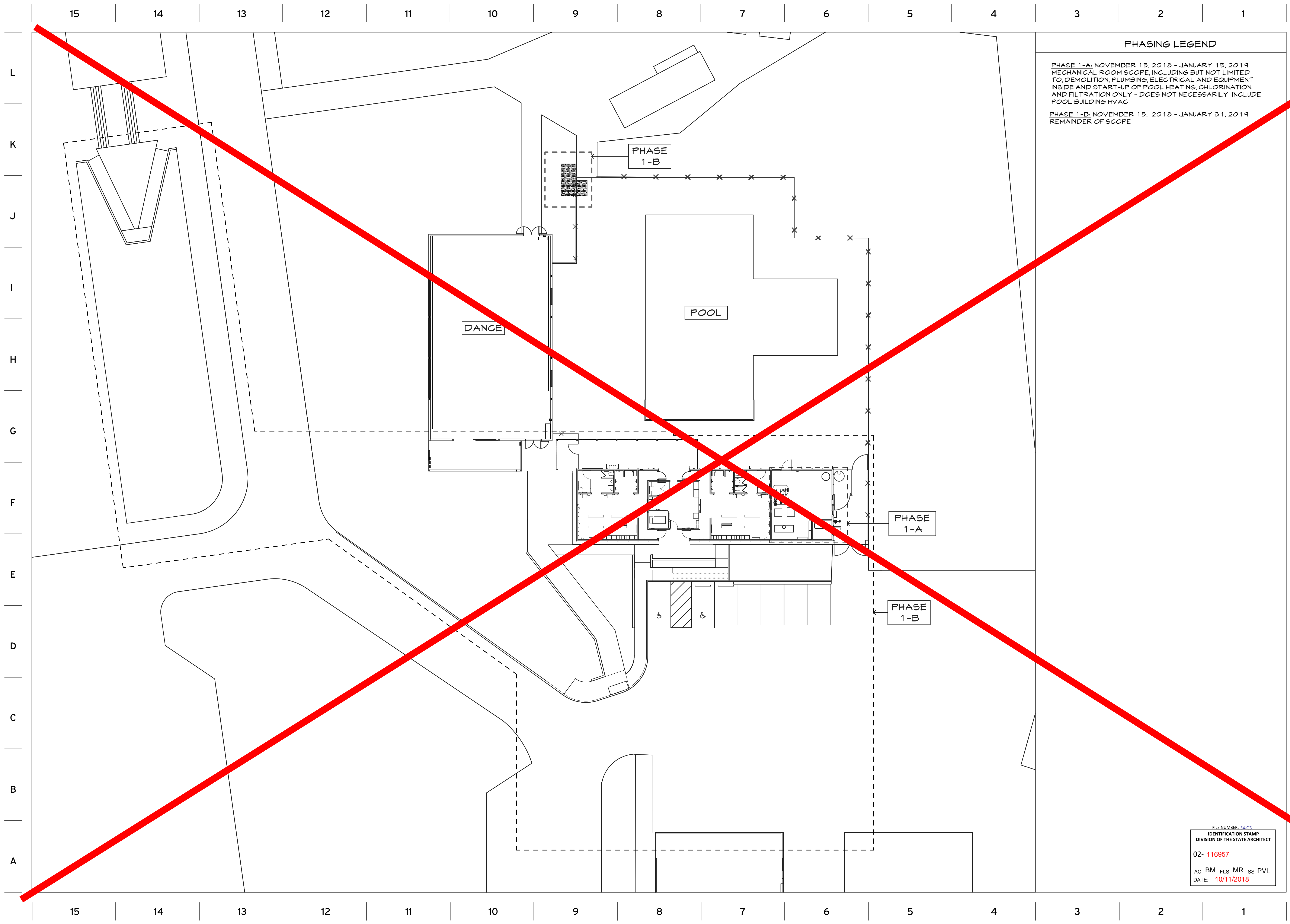
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siteline architecture Andrew J. Pawlowski, Architect, LEED AP 644 Zion Street Nevada City CA 95959 530.478.9415 - f 530.478.9416 - t www.sitelinearch.com

POOL BUILDING RENOVATION for NEVADA JOINT UNION HIGH SCHOOL DISTRICT NEVADA UNION HIGH SCHOOL, GRASS VALLEY, CA

Table with 2 columns: Date, Description. Entry: 10/10/18 NONE 17-429.

COVER SHEET AO



**PHASING LEGEND**

PHASE 1-A: NOVEMBER 15, 2018 - JANUARY 15, 2019  
 MECHANICAL ROOM SCOPE, INCLUDING BUT NOT LIMITED TO, DEMOLITION, PLUMBING, ELECTRICAL AND EQUIPMENT INSIDE AND START-UP OF POOL HEATING, CHLORINATION AND FILTRATION ONLY - DOES NOT NECESSARILY INCLUDE POOL BUILDING HVAC

PHASE 1-B: NOVEMBER 15, 2018 - JANUARY 31, 2019  
 REMAINDER OF SCOPE



Revisions	
10/3/2018	PLAN CHECK

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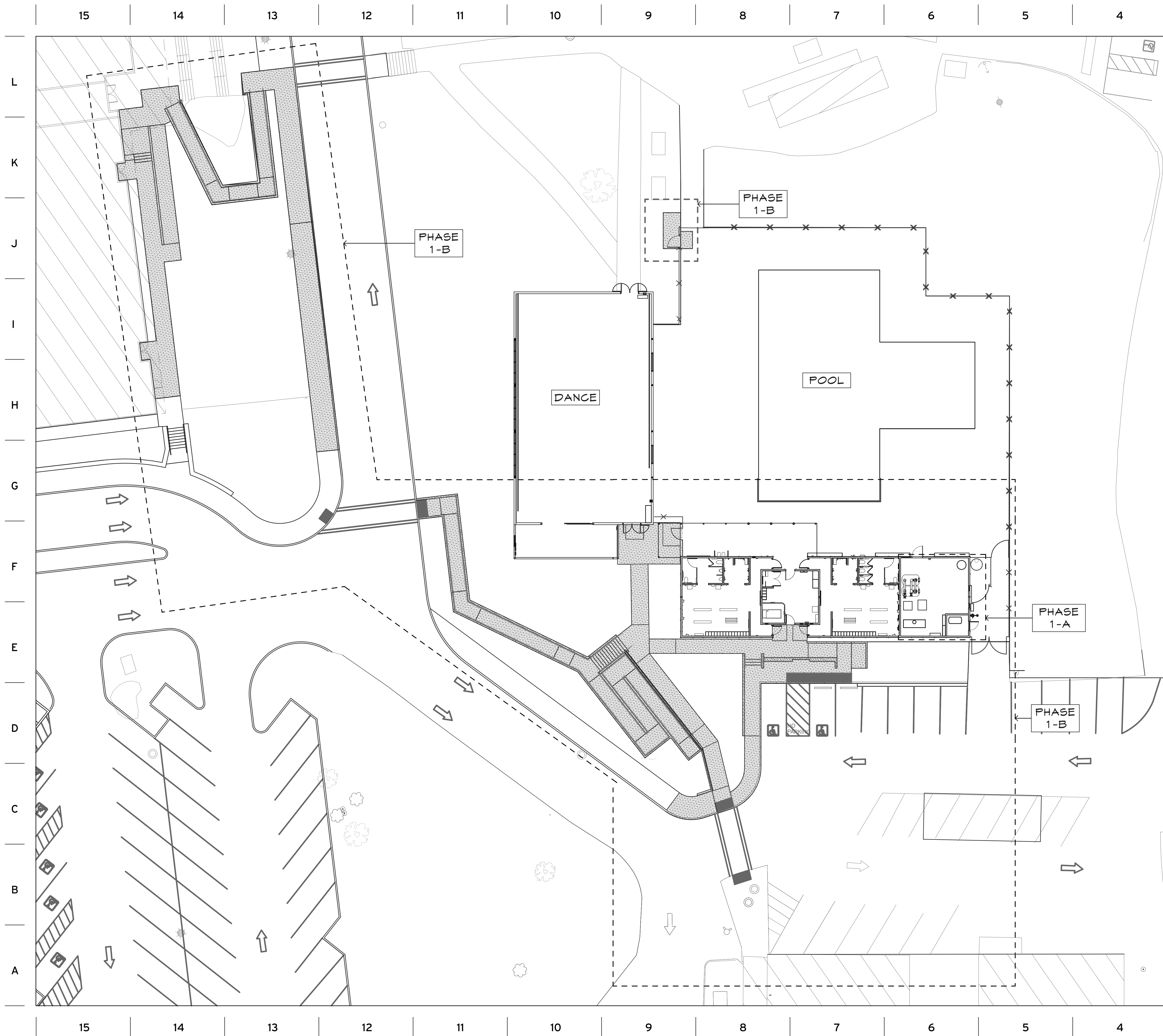
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**POOL BUILDING RENOVATION**  
 for  
**NEVADA JOINT UNION HIGH SCHOOL DISTRICT**  
 NEVADA UNION HIGH SCHOOL, GRASS VALLEY, CA

DATE: 10/10/18  
 SCALE: 1/16" = 1'-0"  
 JOB NO: 17-429

FILE NUMBER: 34-C3  
 IDENTIFICATION STAMP  
 DIVISION OF THE STATE ARCHITECT  
 02- 116957  
 AC\_BM\_FLS\_MR\_SS\_PVL  
 DATE: 10/11/2018

PHASING PLAN  
**AC.1**



**PHASING LEGEND**

PHASE 1-A: DECEMBER 10 - JANUARY 18, 2019  
 MECHANICAL ROOM SCOPE, INCLUDING BUT NOT LIMITED TO, DEMOLITION, PLUMBING, ELECTRICAL AND EQUIPMENT INSIDE AND START-UP OF POOL HEATING, CHLORINATION AND FILTRATION ONLY - DOES NOT NECESSARILY INCLUDE POOL BUILDING HVAC

PHASE 1-B: DECEMBER 10, 2018 - APRIL 12, 2019  
 REMAINDER OF SCOPE



Revisions	
10/3/2018	PLAN CHECK
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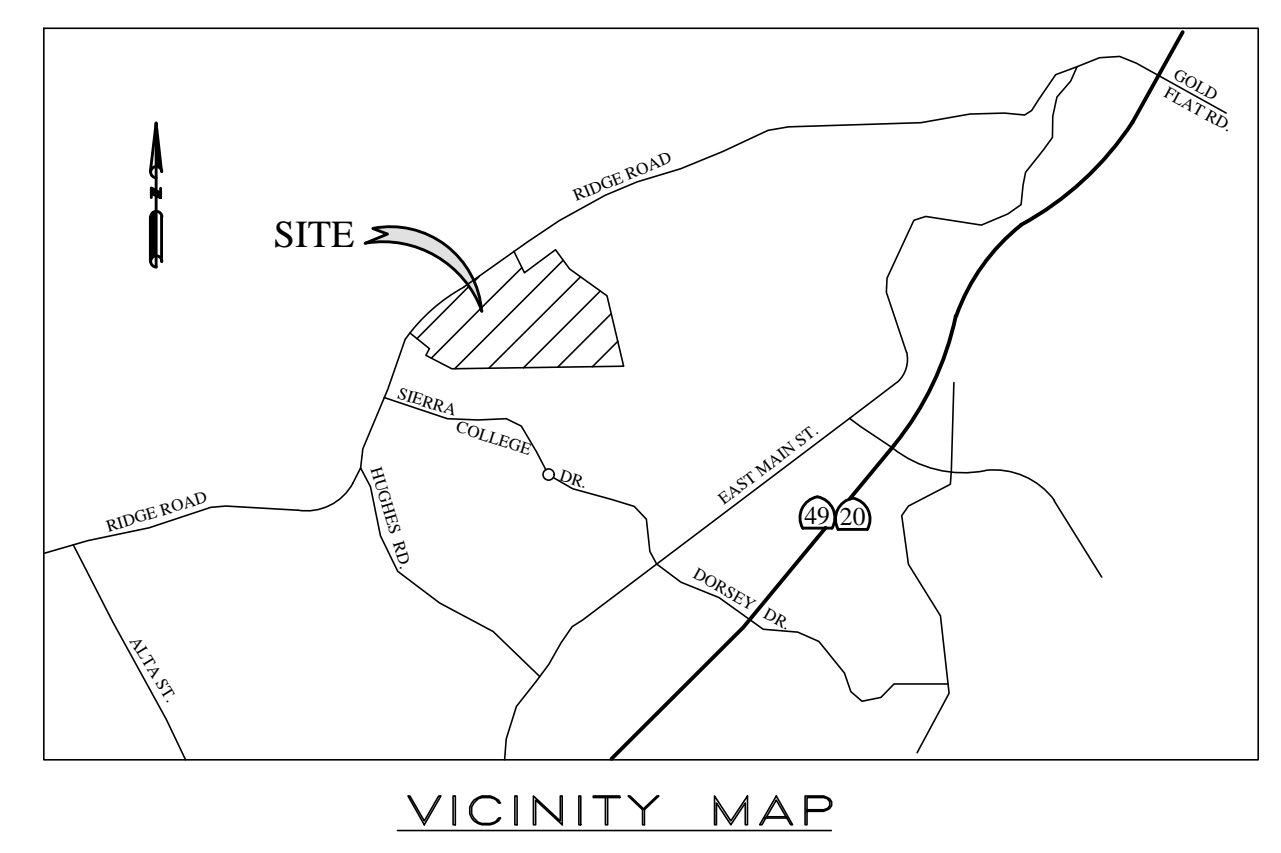
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**POOL BUILDING RENOVATION**  
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**NEVADA JOINT UNION HIGH SCHOOL DISTRICT**  
 NEVADA JOINT UNION HIGH SCHOOL, GRASS VALLEY, CA

DATE: 10/15/18  
 SCALE: 1/16" = 1'-0"  
 SHEET: 17-429

PHASING PLAN  
**AO.1**

FIRE PROTECTION : NEVADA COUNTY CONSOLIDATED FIRE DISTRICT  
 TELEPHONE : AT&T  
 POWER : PACIFIC GAS AND ELECTRIC  
 SEWAGE DISPOSAL : CITY OF GRASS VALLEY  
 WATER : NEVADA IRRIGATION DISTRICT (N.I.D.)



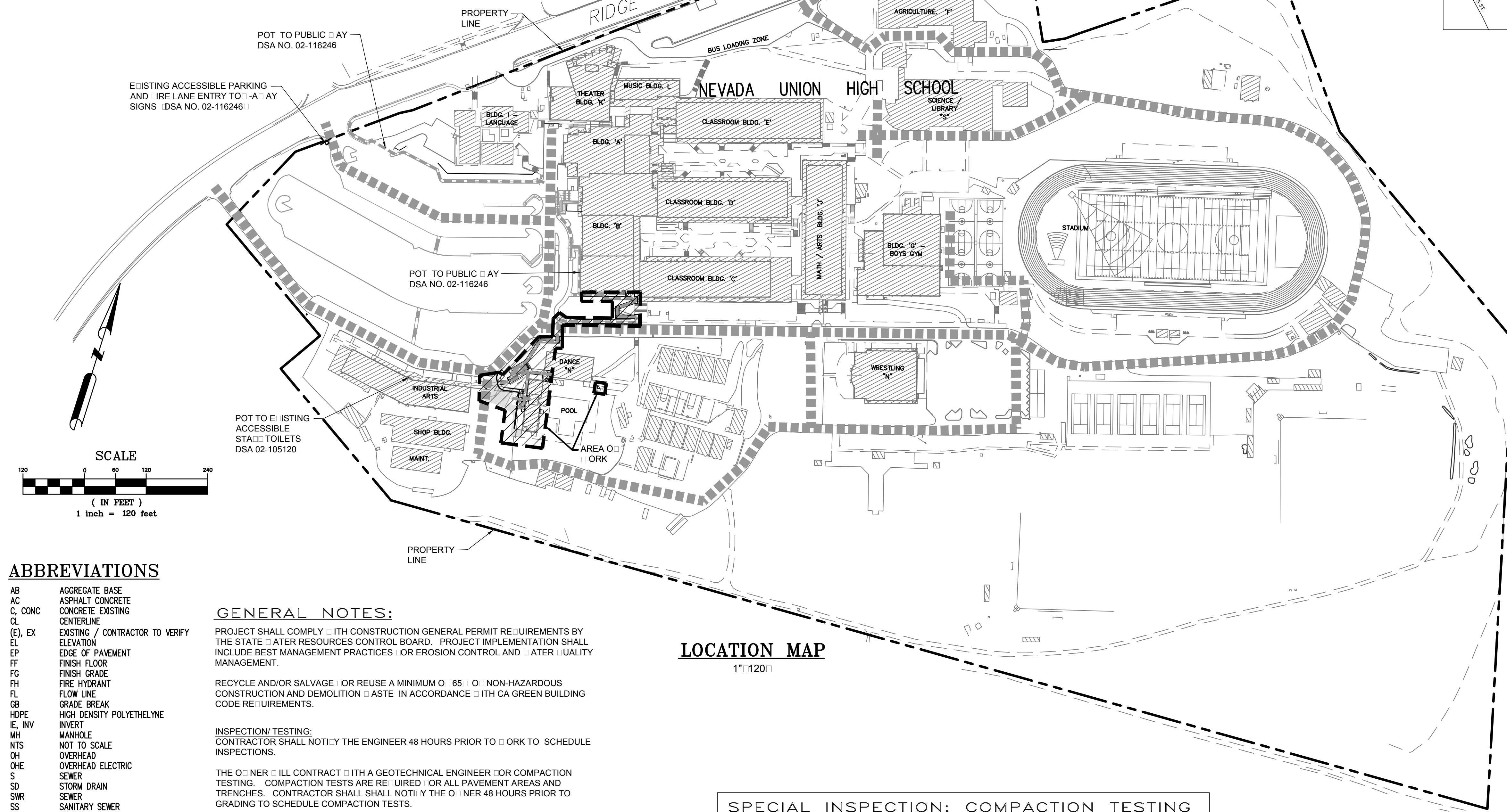
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ASSESSOR'S PARCEL:  
 35-250-01

OWNER / SITE ADDRESS:  
 NEVADA JOINT UNION HIGH SCHOOL DISTRICT  
 NEVADA UNION HIGH SCHOOL  
 11761 RIDGE ROAD  
 GRASS VALLEY, CA 95945

SIERRA LAND SOLUTIONS, INC.  
 11003 BRANDOLIER WAY  
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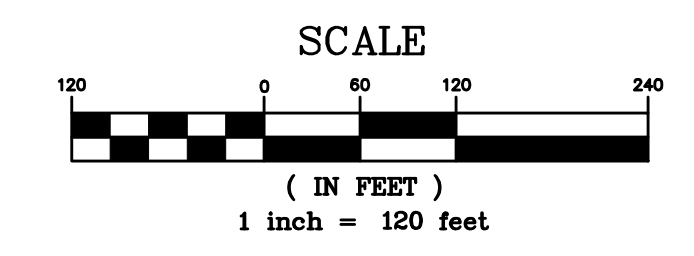
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 NEVADA UNION HIGH SCHOOL  
 11761 RIDGE ROAD  
 GRASS VALLEY, CA 95945

**CIVIL PLAN SHEET INDEX**

C0.1	CIVIL PLAN COVER SHEET
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C1.2	DEMO PLAN
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C2.2	DETAILED GRADING PLAN
C2.3	DETAILED GRADING PLAN
C3.1	UTILITY PLAN
C4.1	DRAINAGE DETAILS
C4.2	SEWER DETAILS
C4.3	SEWER DETAILS
C4.4	RAMP DETAILS
C4.5	GENERAL DETAILS
C4.6	GENERAL DETAILS

POOL BUILDING RENOVATION  
 for  
 NJUHSD  
 NEVADA UNION HIGH SCHOOL, GRASS VALLEY, CA



**ABBREVIATIONS**

AB	AGGREGATE BASE
AC	ASPHALT CONCRETE
C, CONC	CONCRETE EXISTING
CL	CENTERLINE
(E), EX	EXISTING / CONTRACTOR TO VERIFY
EL	ELEVATION
EP	EDGE OF PAVEMENT
FF	FINISH FLOOR
FG	FINISH GRADE
FH	FIRE HYDRANT
FL	FLOW LINE
GB	GRADE BREAK
HDPE	HIGH DENSITY POLYETHYLENE
IE, INV	INVERT
MH	MANHOLE
NTS	NOT TO SCALE
OH	OVERHEAD
OHE	OVERHEAD ELECTRIC
S	SEWER
SD	STORM DRAIN
SWR	SEWER
SS	SANITARY SEWER
TC	TOP CURB
TG	TOP OF GRATE, DROP INLET
TW	TOP WALL
TYP	TYPICAL
WL, W	WATERLINE

**GENERAL NOTES:**

PROJECT SHALL COMPLY WITH CONSTRUCTION GENERAL PERMIT REQUIREMENTS BY THE STATE WATER RESOURCES CONTROL BOARD. PROJECT IMPLEMENTATION SHALL INCLUDE BEST MANAGEMENT PRACTICES FOR EROSION CONTROL AND WATER QUALITY MANAGEMENT.

RECYCLE AND/OR SALVAGE OR REUSE A MINIMUM OF 65% NON-HAZARDOUS CONSTRUCTION AND DEMOLITION WASTE IN ACCORDANCE WITH CA GREEN BUILDING CODE REQUIREMENTS.

INSPECTION/TESTING:  
 CONTRACTOR SHALL NOTIFY THE ENGINEER 48 HOURS PRIOR TO WORK TO SCHEDULE INSPECTIONS.

THE OWNER WILL CONTRACT WITH A GEOTECHNICAL ENGINEER FOR COMPACTION TESTING. COMPACTION TESTS ARE REQUIRED FOR ALL PAVEMENT AREAS AND TRENCHES. CONTRACTOR SHALL NOTIFY THE OWNER 48 HOURS PRIOR TO GRADING TO SCHEDULE COMPACTION TESTS.

**LOCATION MAP**  
 1"=120'

**SPECIAL INSPECTION: COMPACTION TESTING**

**DESIGN PROFESSIONAL IN GENERAL RESPONSIBLE CHARGE STATEMENT**

THE PATH OF TRAVEL (P.O.T.) IDENTIFIED IN THESE CONSTRUCTION DOCUMENTS IS COMPLIANT WITH THE CURRENT APPLICABLE CALIFORNIA BUILDING CODE ACCESSIBILITY PROVISIONS OR PATH OF TRAVEL REQUIREMENTS OR 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 1. HAVE BEEN IDENTIFIED AND 2. 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 SO INDICATED IN THESE CONSTRUCTION DOCUMENTS.

DURING CONSTRUCTION, POT ITEMS WITHIN THE SCOPE OF THE PROJECT REPRESENTED AS CODE COMPLIANT ARE FOUND TO BE NONCOMPLYING BEYOND REASONABLE CONSTRUCTION TOLERANCES, THEY SHALL BE BROUGHT INTO COMPLIANCE WITH THE CBC AS A PART OF THIS PROJECT BY MEANS OF A CONSTRUCTION CHANGE DOCUMENT."

7/12/2018  
 DATE  
  
 ENGINEER SIGNATURE

FILE NUMBER: 34-C3  
 IDENTIFICATION STAMP  
 DIVISION OF THE STATE ARCHITECT  
 02-116957  
 AC\_BM\_FLs\_MR\_SS\_PVL  
 DATE: 10/11/2018

**LEGEND**

---	PROPERTY LINE
----	AREA OF WORK
	FIRE ACCESS ROADS
- - - -	PATH OF TRAVEL (POT)

**PATH OF TRAVEL NOTE**

"PATH OF TRAVEL (P.O.T.) AS INDICATED IS A BARRIER FREE ACCESS WITHOUT ANY ABRUPT VERTICAL CHANGES EXCEEDING 1/2" AT 1:2 MAXIMUM SLOPE, EXCEPT THAT LEVEL CHANGES DO NOT EXCEED 1/4" VERTICAL (11B-303 & 11B-403.4). P.O.T. IS A MINIMUM OF 48" WIDE (11B-403.5.1EX3) SLIP RESISTANT SURFACE WITH 5% MAX. SLOPE AND 1:48 MAX. CROSS SLOPE (11B-403.3). P.O.T. SHALL BE MAINTAINED FREE OF OVERHANGING OBSTRUCTIONS TO 80" MIN (11B-307.4) AND PROTRUDING OBJECTS (11B-307) GREATER THAN 4" PROJECTION FROM WALL ABOVE 27" AND LESS THAN 80". THERE SHALL BE NO DROP-OFF OVER 4" AT THE EDGE OF WALK OR LANDING UNLESS IDENTIFIED BY A GUARD, A HANDRAIL, OR A WARNING CURB AT LEAST 6" IN HEIGHT ABOVE THE WALK. ARCHITECT AND CONTRACTOR SHALL VERIFY THAT ALL BARRIERS ON THE INDICATED PATH OF TRAVEL HAVE BEEN REMOVED." AT LEAST ONE ACCESSIBLE ROUTE WITHIN THE BOUNDARY OF THE SITE SHALL BE PROVIDED FROM PUBLIC WAY, ACCESSIBLE PARKING, AND ACCESSIBLE RESTROOMS, TO THE ACCESSIBLE BUILDING ENTRANCES. THEY SERVE AND ALL PORTIONS OF THE ACCESSIBLE OR ADAPTABLE BUILDING.

ACCESSIBLE ROUTE TO PUBLIC WAY IS SHOWN ON THIS SHEET.  
 REFERENCE SHEET C1.1 FOR P.O.T. IMPROVEMENTS

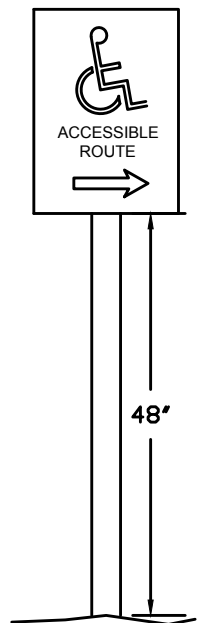
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CIVIL PLAN COVER SHEET  
**C0.1**

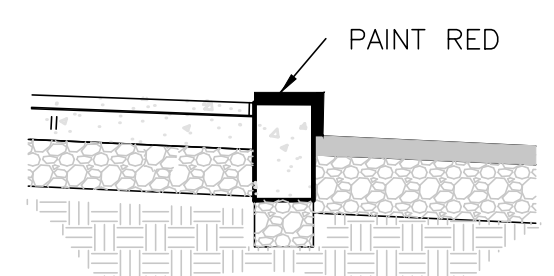


**SIGNAGE NOTES**

- S1 INSTALL PATH OF TRAVEL DIRECTIONAL SIGNAGE - ONE SIGN WITH INTERNATIONAL SYMBOL OF ACCESSIBILITY AND DIRECTIONAL ARROW. SIGN SHALL BE MOUNTED ON A METAL SIGN POST AT 48" FROM GROUND TO BOTTOM OF LOWER SIGN. SIGN SHALL NOT BE LOCATED IN POT. REFER TO PLAN FOR DIRECTION OF ARROW. (DETAIL 5)
- S2 PLACE ACCESSIBLE STALL PARKING STRIPING (DETAIL A90A/C4.5)
- S3 PAINT RED CURBING (DETAIL 4)
- S4 INSTALL ACCESSIBLE PARKING SIGN (DETAIL A90A/C4.5) BOTTOM OF SIGN SHALL BE 80" MIN. ABOVE GRADE AT PATH OF TRAVEL
- S5 PROVIDE INTERSECTION SIGNAGE AND STRIPING (DETAIL 1)
- S6 INSTALL UNAUTHORIZED VEHICLE SIGN (DETAIL A90A/C4.5) SIGN TYPE R100B (DETAIL A90A/C4.5) MOUNTED AT BACK OF STOP SIGN

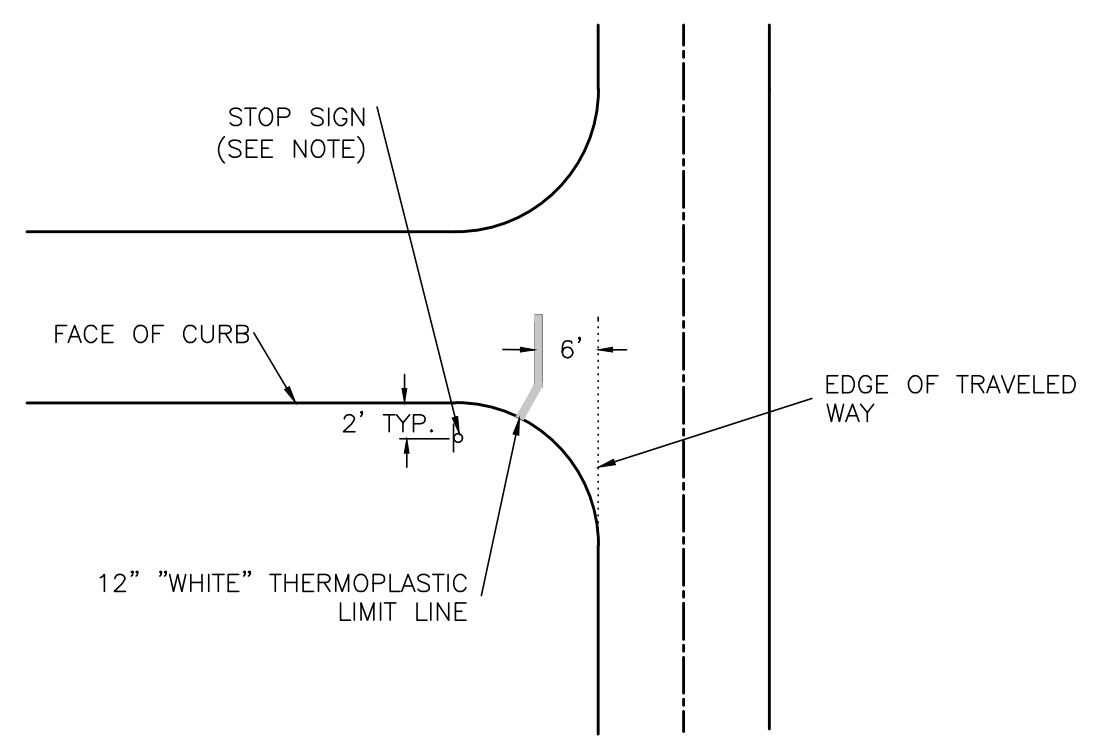


**PATH OF TRAVEL DIRECTIONAL SIGNAGE  
DETAIL 5**



**RED CURBING  
DETAIL 4**

NOTE: BOTTOM OF SIGN SHALL BE 84" MIN. ABOVE SIDEWALK.



**INTERSECTION SIGNAGE AND STRIPING  
DETAIL 1**

**STAIR / VISITOR PARKING**  
 TOTAL PARKING SPACES: 27  
 VAN ACCESSIBLE SPACE: 1  
 STD. ACCESSIBLE SPACE: 1

POT TO PUBLIC WAY  
SEE SHEET C0.1

POT TO EXISTING ACCESSIBLE STAIR TOILETS  
DSA 02-105120

INDUSTRIAL ARTS

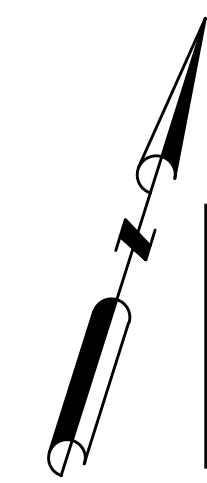
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POOL BUILDING

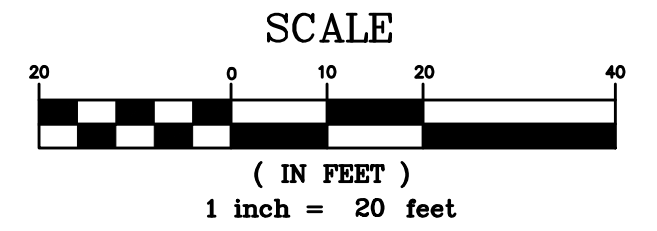
POOL

**LEGEND**

- ACCESSIBLE PATH OF TRAVEL
- RED CURBING



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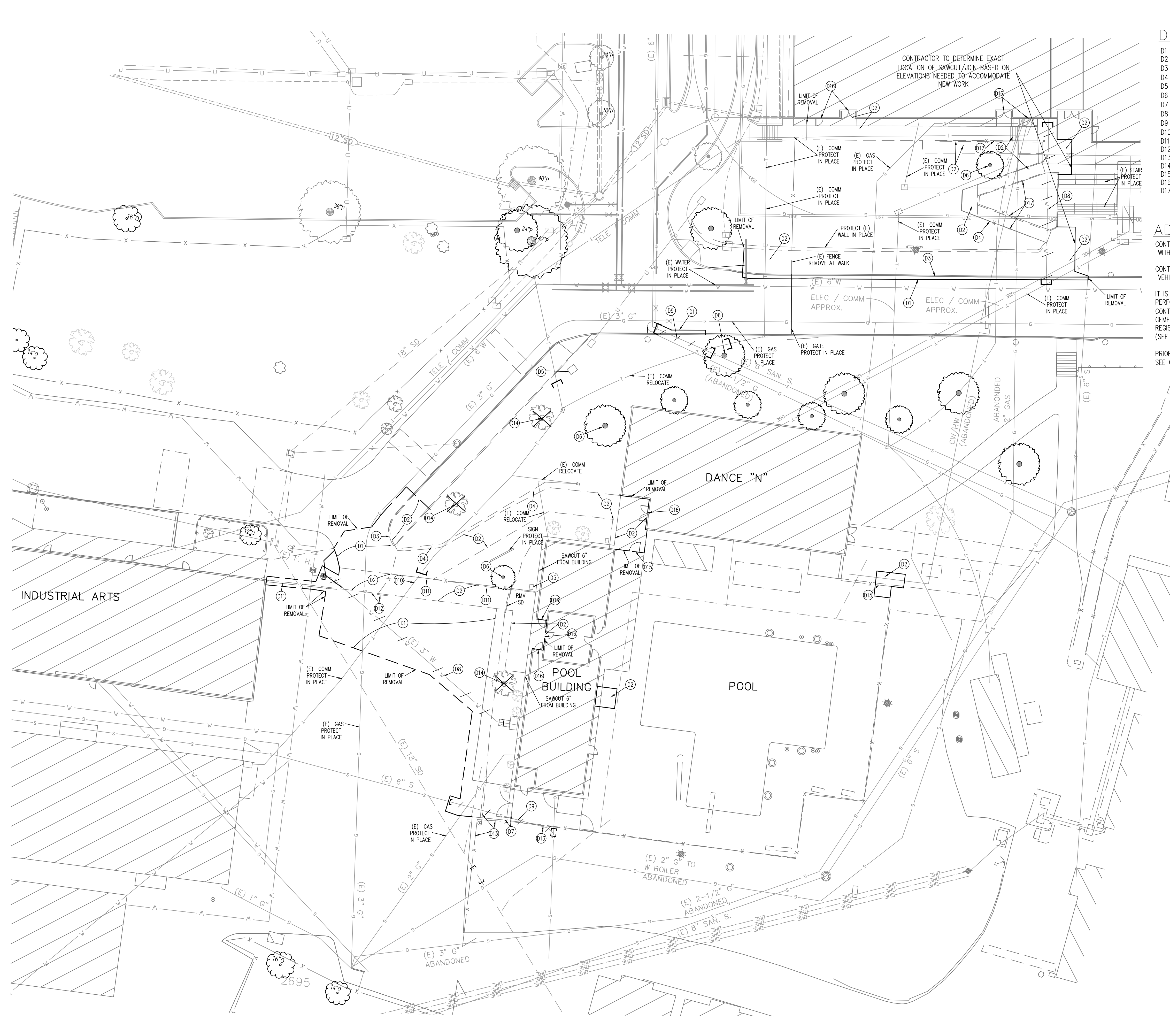
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**POOL BUILDING RENOVATION**  
 for  
 NJUHSD  
 NEVADA UNION HIGH SCHOOL, GRASS VALLEY, CA

DATE: 7/12/18  
 SCALE: 17-429

SITEPLAN  
**C1.1**



**DEMOLITION NOTES:**

- D1 REMOVE AND DISPOSE OF EXISTING ASPHALT. PROVIDE EDGE GRIND PRIOR TO PAVING (DETAIL 4/C4.6)
- D2 REMOVE AND DISPOSE OF EXISTING CONCRETE
- D3 REMOVE (E) CURB
- D4 REMOVE (E) WALL
- D5 REPLACE EXISTING IRRIGATION BOX AND CONNECT TO EXISTING IRRIGATION (TYPICAL)
- D6 PROTECT (E) TREE (TYP) (SEE DETAIL 1, SHEET C4.6)
- D7 REMOVE AND DISPOSE (E) ELECTRICAL (ABANDONED)
- D8 REMOVE AND REPLACE PORTION OF (E) WATER LINE (SEE UTILITY PLAN) PROTECT IN PLACE REMAINING PORTION
- D9 REMOVE AND REPLACE PORTION OF (E) SEWER LINE (SEE UTILITY PLAN) PROTECT IN PLACE REMAINING PORTION
- D10 PROTECT IN PLACE EXISTING COMM / DATA FACILITIES
- D11 REMOVE AND DISPOSE OF EXISTING FENCE
- D12 REMOVE AND DISPOSE OF EXISTING GATE
- D13 TEMPORARILY REMOVE FENCE AND REPLACE UPON COMPLETION OF WORK
- D14 REMOVE AND DISPOSE OF EXISTING TREE
- D15 REMOVE AND DISPOSE PORTION OF EXISTING FENCE AS NECESSARY TO INSTALL NEW GATE
- D16 REMOVE EXISTING THRESHOLD AND MODIFY DOORWAY TO ACCOMMODATE NEW ACCESSIBLE THRESHOLD
- D17 REMOVE AND DISPOSE OF EXISTING RAILING

**ADDITIONAL NOTES:**

CONTRACTOR TO PROVIDE WASTE REMOVAL AND DISPOSAL. RECYCLING SHALL BE IMPLEMENTED IN ACCORDANCE WITH BUILDING CODE REQUIREMENTS.

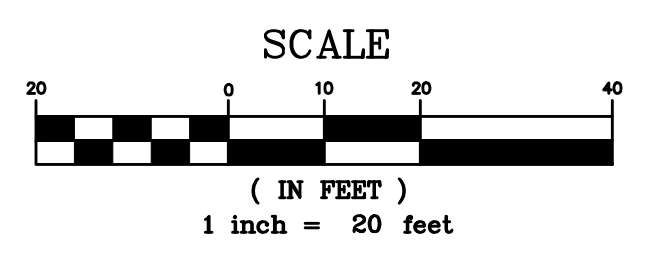
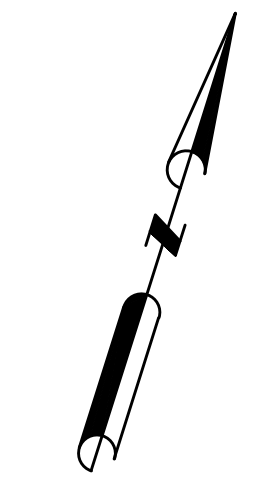
CONTRACTOR TO INSTALL TEMPORARY FENCING AS NEEDED TO SECURE THE WORK AREA FOR PEDESTRIAN AND VEHICULAR SAFETY.

IT IS POSSIBLE THAT ASBESTOS CEMENT PIPE COULD POTENTIALLY BE UNCOVERED, IF THE CONTRACTOR PERFORMING THE DEMOLITION SHOWN HEREON UNCOVERS ASBESTOS CEMENT PIPE OR ANY OTHER ASBESTOS CONTAINING MATERIAL (ACM) THEY MUST STOP WORK IMMEDIATELY. IF IT IS DETERMINED THAT THE ASBESTOS CEMENT PIPE OR ANY OTHER ACM MATERIAL THAT HAS BEEN UNCOVERED WILL NEED TO BE REMOVED, A REGISTERED ASBESTOS ABATEMENT CONTRACTOR WILL BE REQUIRED TO COMPLETE THE WORK. (SEE SPECIFICATIONS FOR ADDITIONAL REQUIREMENTS)

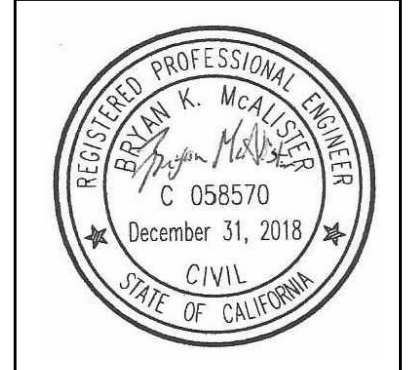
PRIOR TO SAWCUTTING, CONTRACTOR SHALL VERIFY GRADE FOR ADJOINING CONDITIONS SEE GRADING PLAN, EXISTING GRADE TO BE VERIFIED AS NOTED ( )

**LEGEND**

- EXISTING TREE PROTECT IN PLACE
- REMOVE EXISTING TREE
- LIMIT OF PIPE REPLACEMENT SEE GRADING AND UTILITY PLAN



FILE NUMBER: 34-C3  
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**Revisions**


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**POOL BUILDING RENOVATION**  
 for  
**NJUHSD**  
 NEVADA UNION HIGH SCHOOL, GRASS VALLEY, CA

DATE: 7/12/18  
 SCALE: 17-429

**DEMO PLAN**  
**C1.2**

### WATER POLLUTION CONTROL NOTES

1. MAINTAIN ALL CONSTRUCTION EQUIPMENT TO PREVENT OIL OR OTHER FLUID LEAKS. KEEP STOCKPILED SPILL CLEANUP MATERIALS READILY ACCESSIBLE. SEGREGATE AND CONTAIN ALL WASTES AND POTENTIAL POLLUTANTS.
2. CONTRACTOR IS RESPONSIBLE FOR INSTALLATION AND MANAGEMENT OF EROSION CONTROL MEASURES INCLUDING FIBER ROLLS AND ANY OTHER MEASURES DEEMED NECESSARY TO PREVENT SEDIMENT FROM LEAVING THE SITE. CONTRACTOR IS ADVISED TO REFERENCE CASQA STORMWATER QUALITY HANDBOOKS CONSTRUCTION SITE BEST MANAGEMENT PRACTICES (BMPs) MANUAL, STATE OF CALIFORNIA.
3. CONTRACTOR TO MINIMIZE EXPOSURE TIME OF DISTURBED SOIL AREAS BY PHASING CONSTRUCTION ACTIVITIES AND STABILIZING THE SOILS PROMPTLY.
4. CONCRETE WASHOUT AREAS SHALL BE LOCATED AT AN APPROVED OFFSITE LOCATION OR IN ACCORDANCE WITH SWPPP BMP WM-8.
5. CONTRACTOR TO DILIGENTLY MAINTAIN THE TEMPORARY CONSTRUCTION ACCESS TO PREVENT SOIL TRACKING INTO ROADWAY.
6. CONTRACTOR TO WINTERIZE SITE PRIOR TO OCTOBER 15th. PERMANENT BMP'S SUCH AS REVEGETATION, LANDSCAPING, ETC. SHALL BE IMPLEMENTED IN ALL COMPLETED AREAS.
7. ALL WORK PERFORMED BETWEEN OCTOBER 15TH AND MAY 1ST OF EACH YEAR SHALL BE CONDUCTED IN SUCH A MANNER THAT THE PROJECT CAN BE WINTERIZED WITHIN 48 HOURS AND PRIOR TO RAIN EVENTS. WINTERIZED MEANS IMPLEMENTING EROSION AND/OR SEDIMENT CONTROLS THAT WILL PREVENT THE DISCHARGE OF EARTHEN MATERIALS FROM THE SITE AND THE CONTROLS WILL REMAIN EFFECTIVE THROUGHOUT THE RAIN SEASON WITHOUT REQUIRING MAINTENANCE. IN GENERAL, THIS REQUIRES STABILIZING BARE DISTURBED SOILS WITH MULCH, EROSION PROTECTION BLANKETS, OR OTHER SUITABLE MATERIALS, AND INSTALLING PERIMETER SEDIMENT CONTROLS SUCH AS FIBER ROLLS OR OTHER SIMILAR MATERIALS THAT WILL REMAIN EFFECTIVE DURING RAIN EVENTS.
8. EROSION CONTROL AND SEDIMENT BARRIERS SHALL BE CHECKED PRIOR TO ANTICIPATED STORM EVENTS, DURING/ AFTER STORM EVENTS AND WEEKLY BY THE CONTRACTOR.
9. STOCKPILES NOT ACTIVELY USED SHALL BE COVERED AND BERMED.
10. ALL DISTURBED AREAS NOT COVERED WITH LANDSCAPE / HARDSCAPE AS SHOWN ON THESE PLANS SHALL BE COVERED WITH SOIL STABILIZATION MATERIAL AS SPECIFIED BY THE DISTRICT. APPROVED SOIL STABILIZATION CONSISTS OF WOOD CHIPS, PINE NEEDLES OR NATIVE SEED / MULCH.

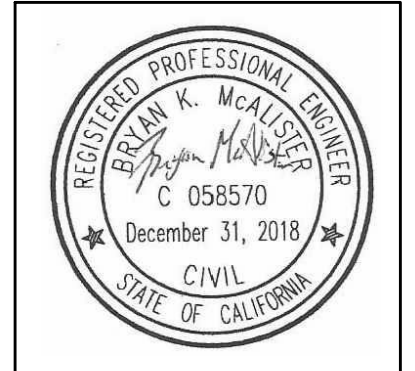
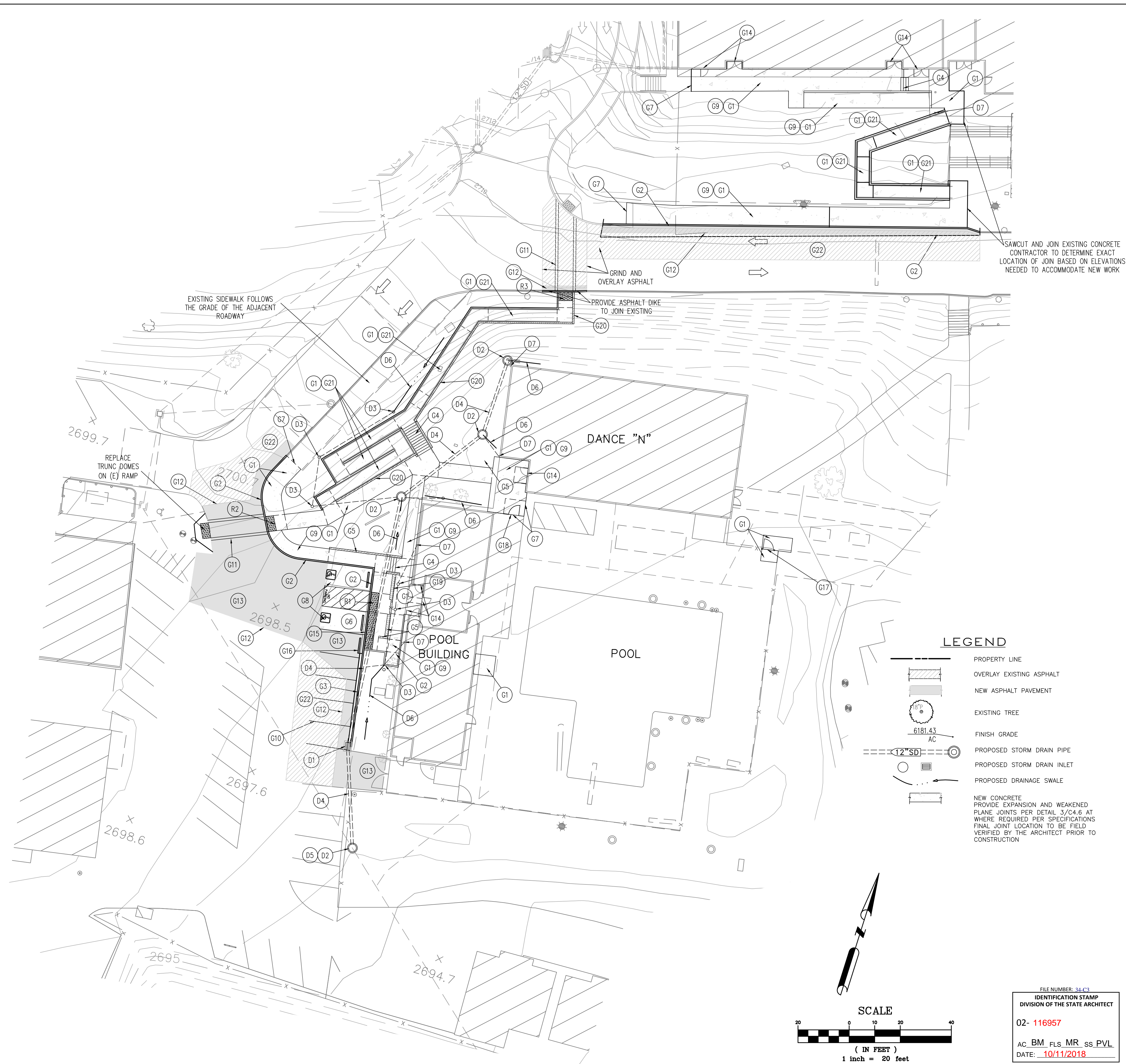
### GRADING NOTES:

- G1 CONSTRUCT CONCRETE SIDEWALK (DETAIL 5/C4.6)
- G2 CONSTRUCT TYPE A1-6" CURB (DETAIL 8/C4.6)
- G3 CONSTRUCT TYPE A2-6" CURB AND GUTTER (DETAIL 9/C4.6)
- G4 CONSTRUCT STEPS WITH RAILING (DETAILS 5/C4.5 AND ARCH DETAILS)
- G5 PROVIDE 5'X5' MIN. LANDING AT TOP/BOTTOM OF STAIR, 2% MAX. SLOPE
- G6 CONSTRUCT CONCRETE SITE WALL (DETAILS 11/C4.5 AND ARCH DETAILS)
- G7 (TEXTURE AND FINISH PER ARCHITECTS SPECIFICATIONS)
- G8 CONNECT BACK OF WALL DRAINAGE TO STORM DRAIN PIPING OR NEAREST INLET
- G9 PROVIDE NEW CONCRETE PAVEMENT SECTION 6" PCC OVER 6" AB WHERE SHOWN (DETAIL 7/C4.6)
- G10 SAWCUT AND JOIN EXISTING CONCRETE, DRILL AND DOWEL
- G11 CONSTRUCT ACCESSIBLE PARKING WITH STRIPING AND SIGNAGE (DETAIL A90A/C4.5)
- G12 SIDEWALK TO CONFORM TO REQUIREMENTS FOR ADA PATH, 2% MAX. CROSS SLOPE AND 5% MAX. LONGITUDINAL SLOPE
- G13 INSTALL 4" WHITE PARKING LOT STRIPING PAINT
- G14 PLACE 8" CROSSWALK STRIPING (THERMOPLASTIC)
- G15 JOIN EXISTING ASPHALT AT SAWCUT LINE AND PROVIDE EDGE GRINDING (TYPICAL DETAIL 4/C4.6)
- G16 PROVIDE NEW PAVEMENT SECTION 3" AC OVER 8" AB WHERE SHOWN (DETAIL 6/C4.6)
- G17 REPLACE THRESHOLD WITH ADA COMPLIANT THRESHOLD AND MODIFY DOOR TO ACCOMMODATE (REFER TO ARCHITECTS SPECIFICATIONS)
- G18 CONSTRUCT 0" FLAT CURB (DETAIL 2/C4.6)
- G19 PROVIDE CURB STOPS IN THREE LOCATIONS (DETAIL A90A/C4.5)
- G20 PROVIDE NEW GATE WITH ELECTRIC LOCK (DETAIL 10/C4.6) (SEE ELECTRICAL PLAN).
- G21 MODIFY EXISTING GATE TO ADD ELECTRIC LOCK AND TO COMPLY WITH DETAIL 10/C4.6 FOR ALL REQUIREMENTS AS AN ACCESSIBLE GATE, (SEE ELECTRICAL PLAN).
- G22 CONSTRUCT 2.5' TALL, VINYL COATED METAL CHAINLINK FENCE (DETAIL 11/C4.5)
- G23 CONSTRUCT CONCRETE RETAINING WALL PER STRUCTURAL PLAN AND DETAIL 4/C4.5 (TEXTURE AND FINISH PER ARCHITECTS SPECIFICATIONS)
- G24 CONNECT BACK OF WALL DRAINAGE TO STORM DRAIN PIPING OR NEAREST INLET
- G25 CONSTRUCT ADA RAMP WITH RAILING (SEE ARCHITECTURAL PLAN A1.4 AND A5.0 FOR DETAILS)
- G26 PROVIDE 5'X5' MIN. LANDING AT TOP AND 5'X6' MIN. LANDING AT BOTTOM, 2% MAX. SLOPE
- G27 GRIND 1" AND OVERLAY ASPHALT TO CONFORM TO EXISTING

### DRAINAGE NOTES:

- D1 CONSTRUCT TYPE G0 STORM DRAIN CURB OPENING INLET (DETAIL G0/C4.1)
- D2 CONSTRUCT TYPE GCP STORM DRAIN GRATE INLET (DETAIL D75B/C4.1)
- D3 INSTALL 8" SQUARE AREA DRAIN (DETAIL 3/C4.1) WITH 6" AREA DRAIN PIPE, SLOPE=0.010 MIN. USE PEDESTRIAN ADA COMPLIANT GRATES IN CONCRETE AREAS. CONNECT AREA DRAIN PIPE TO NEAREST STORM DRAIN INLET
- D4 INSTALL 12" HDPE STORM DRAIN, SLOPE=0.010 MIN. (DETAIL 1/C4.1)
- D5 CONNECT TO EXISTING STORM DRAIN PIPE, POT-HOLE TO VERIFY
- D6 INSTALL V-DITCH (DETAIL 2/C4.1) (ROCK LINE V-DITCH IF SLOPE EXCEEDS 5%)
- D7 CONNECT ROOF DRAIN TO STORM DRAIN OR AREA DRAIN

NOTE: REFER TO SHEETS C2.2 AND C2.3 FOR GRADING DETAILS, DIMENSIONS AND PATH OF TRAVEL FROM ACCESSIBLE PARKING AREAS



Revisions

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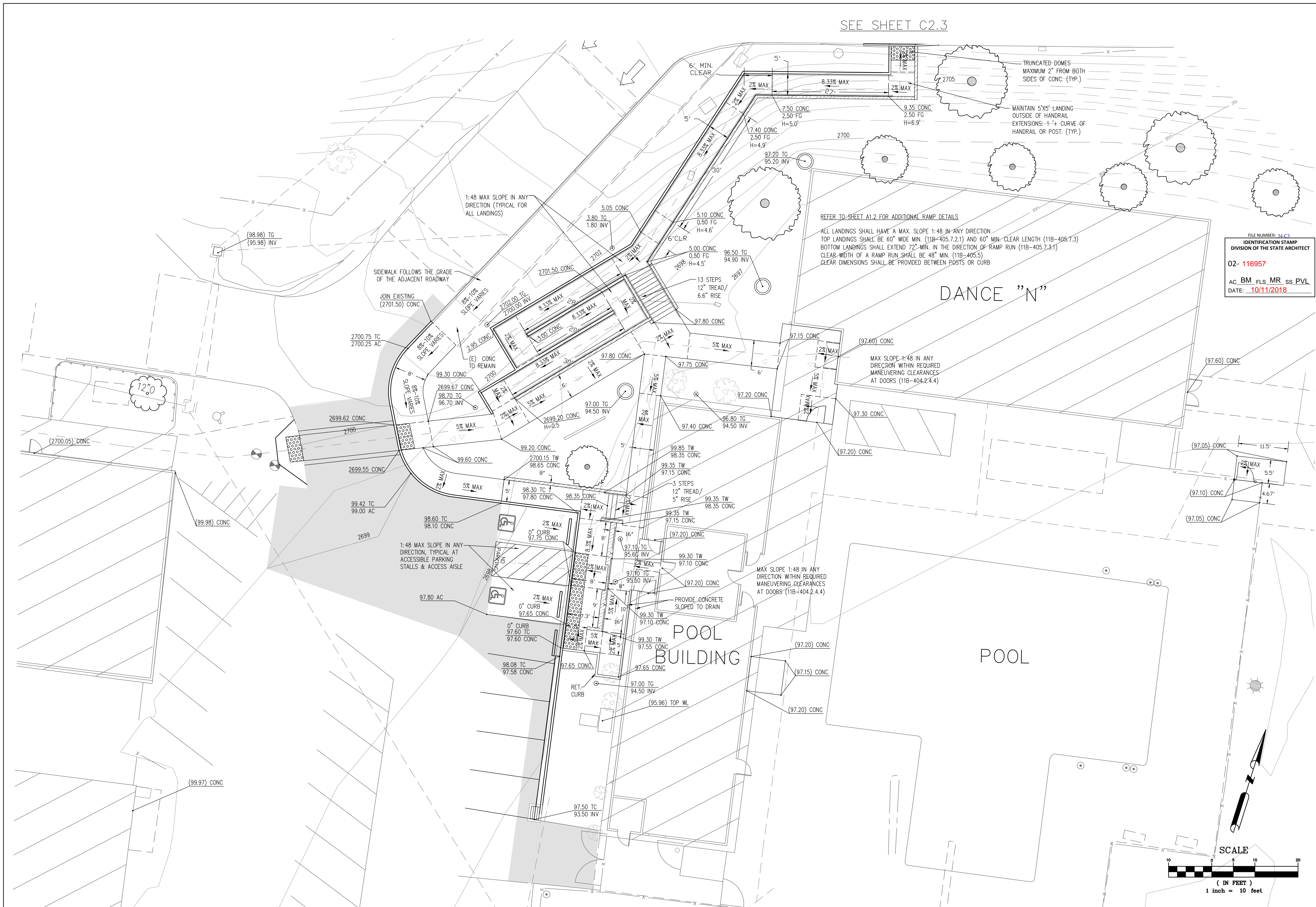
**POOL BUILDING RENOVATION**  
for  
**NJUHSD**  
NEVADA UNION HIGH SCHOOL, GRASS VALLEY, CA

DATE	7/12/18
SCALE	17-429

**GRADING AND DRAINAGE**  
**C2.1**

FILE NUMBER: 16-C-1  
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DIVISION OF THE STATE ARCHITECT  
02-116957  
AC\_BM\_FLS\_MR\_SS\_PVL  
DATE: 10/11/2018





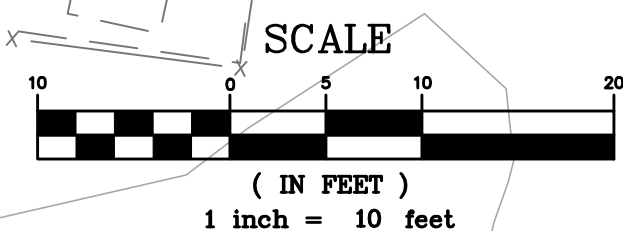
SEE SHEET C2.3

DANCE "N"

POOL BUILDING

POOL

FILE NUMBER: 34-C1  
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 02- 116957  
 AC\_BM\_FLS\_MR\_SS\_PVL  
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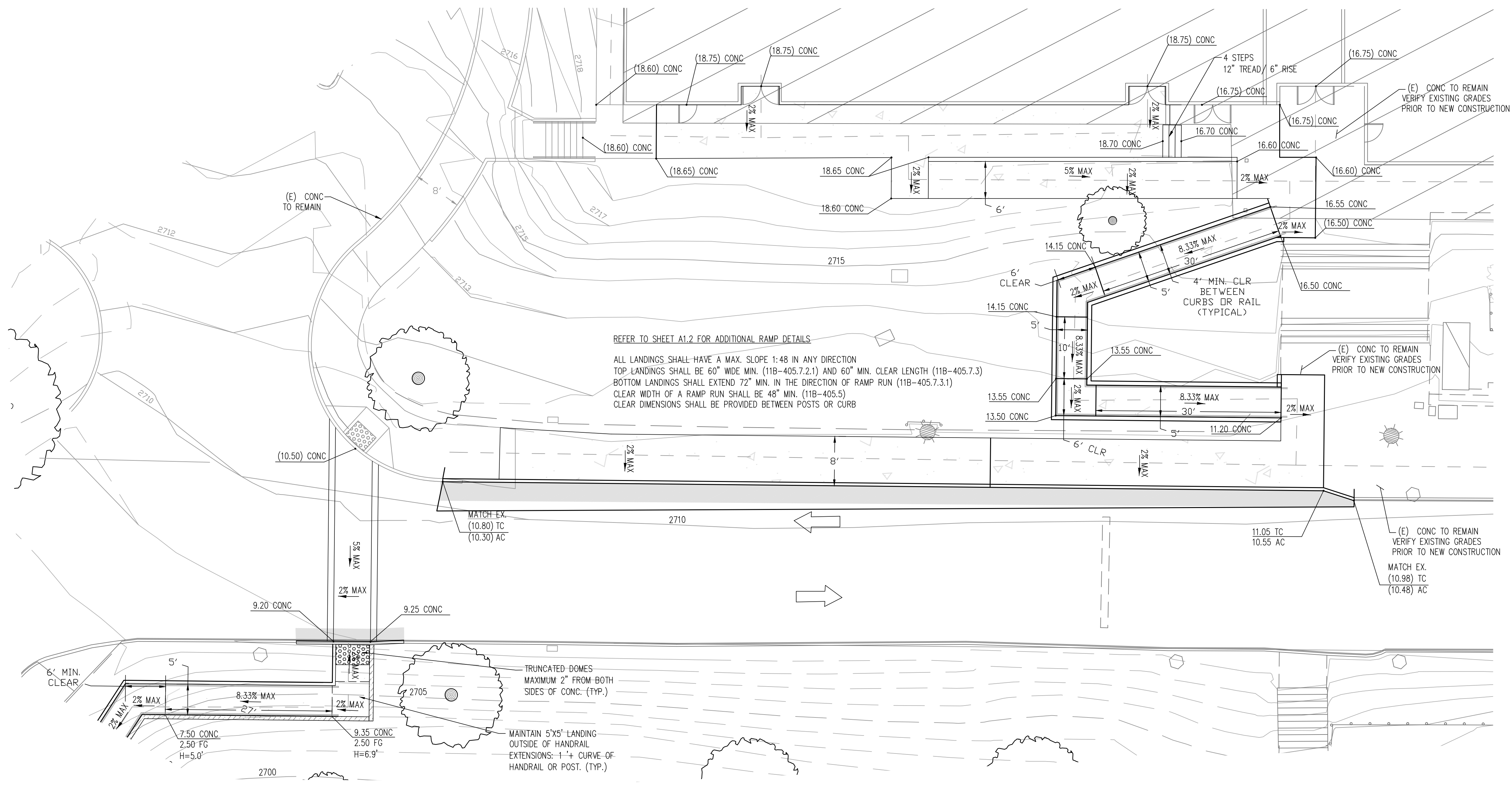
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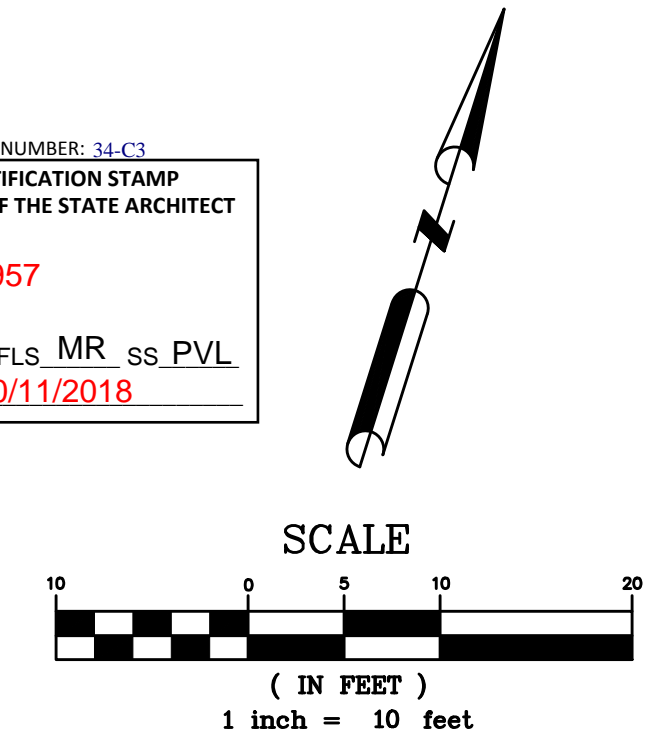
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DETAILED GRADING PLAN  
**C2.2**



SEE SHEET C2.2

FILE NUMBER: 14-C3  
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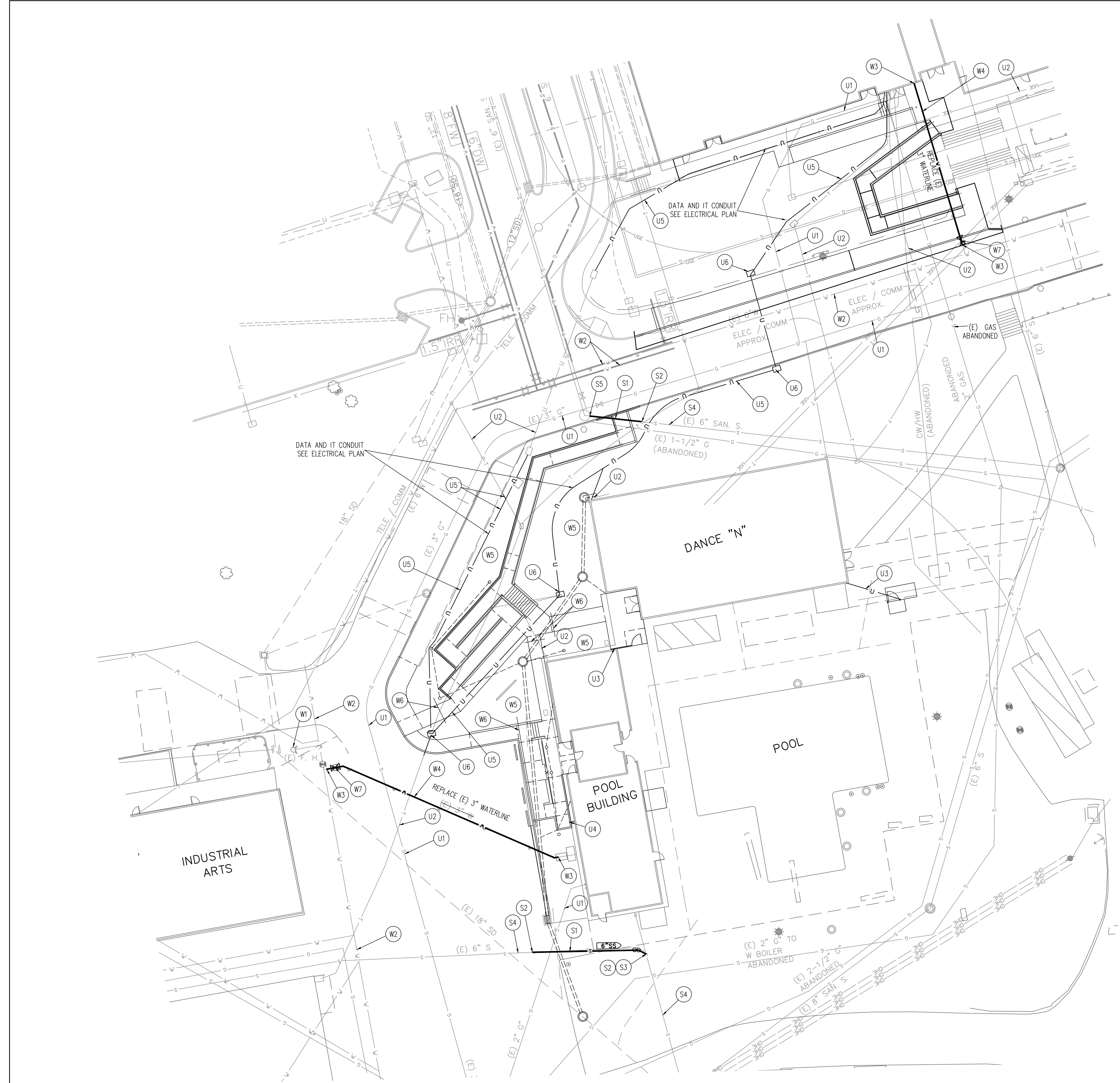
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DATE: 7/12/18  
 SCALE: 17-429

DETAILED GRADING PLAN  
**C2.3**



**LEGEND**

---	PROPERTY LINE	---	NEW GAS LINE
—G—G—	EXISTING GAS	—V—V—	NEW WATER LINE
—V—V—	EXISTING WATER	—S—S—	NEW SEWER LINE
—S—S—	EXISTING SEWER	○	NEW SEWER MANHOLE
—T—T—	EXISTING TELE/COMM	---	NEW STORM DRAIN
—E—E—	EXISTING ELEC	---	NEW UTILITY TRENCH
		---	IT, ELEC OR FUTURE USE (SEE ELECTRICAL PLAN)

**GENERAL NOTES:**

- ALL PIPING TO BE INSTALLED IN ACCORDANCE WITH THE LATEST ADOPTED VERSION OF THE CALIFORNIA PLUMBING CODE AND LOCAL UTILITY COMPANY HAVING JURISDICTION.
- ALL PRIVATE WATERLINE TO BE PLACED WITH 12" MIN. CLEARANCE FROM ADJACENT PARALLEL ELECTRIC, TELEPHONE AND OR GAS UTILITIES. FULL LENGTHS OF WATER PIPES SHALL BE CENTERED OVER INTERSECTIONS WITH STORM DRAIN AND SEWER LINES. ALL WATERLINE SHALL CONFORM TO DEPARTMENT OF HEALTH SERVICES REQUIREMENTS (SEE DETAIL SS-5) FOR SEPARATION BETWEEN WATER AND SEWER.
- ALL UTILITY BOXES TO BE H2O TRAFFIC RATED.
- UPON COMPLETION OF GRADING AND PAVING, RAISE AND ADJUST IRON TO 1/2" BELOW FINISH SURFACE FOR PAVED SURFACES AND 2" ABOVE GRADE FOR UNPAVED SURFACES. THIS INCLUDES ADJUSTMENT OF ALL EXISTING OR NEW VALVES (DETAIL NID SD4/C4.2); VAULT FRAME AND LIDS; CLEANOUTS (DETAIL SS-4/C4.3); AND MANHOLE FRAME AND COVER TO GRADE.

**WATER NOTES:**

- W1 (E) HYDRANT - PROTECT IN PLACE
- W2 (E) WATER MAIN (PROTECT IN PLACE)
- W3 CONNECT TO EXISTING DOMESTIC WATER LINE WITH FITTINGS AS REQUIRED (POTHOLE TO VERIFY TYPE AND SIZE)
- W4 INSTALL 3" CL150 C900 WATERLINE (DOMESTIC) (DETAILS NID SD1, SD2 AND SD3/C4.2)
- W5 REPAIR AND REPLACE TO WORKING ORDER LANDSCAPE IRRIGATION THAT IS IN CONFLICT WITH NEW WORK (TYPICAL)
- W6 PROVIDE 6" PVC SLEEVE FOR IRRIGATION CROSSING
- W7 INSTALL 3" WATER VALVE (DETAIL NID SD4/C4.2)

**UTILITY NOTES:**

- U1 (E) GAS - (POTHOLE TO VERIFY LOCATION) PROTECT IN PLACE
- U2 EXISTING COMM/DATA/ELEC (POTHOLE TO VERIFY LOCATION) - PROTECT IN PLACE
- U3 PROVIDE 2" CONDUIT FOR ELECTRIC LOCK AT GATE (SEE ELECTRICAL PLAN)
- U4 PROVIDE ELECTRICAL SERVICE TO VENDING MACHINE (SEE ELECTRICAL PLAN)
- U5 INSTALL SECONDARY UTILITY TRENCH FOR DATA/IT, ELECTRIC, SITE LIGHTING OR FUTURE USE (SEE ELECTRICAL PLAN)
- U6 INSTALL PULL BOX FOR DATA/IT, ELEC OR FUTURE USE (SEE ELECTRICAL PLAN)
- U7 CONNECT CONDUIT TO EXISTING VAULT

**SEWER NOTES:**

- S1 INSTALL 6" PVC SDR35 SEWER LINE (DETAIL 1/C4.1)
- S2 CONNECT TO EXISTING SEWER LINE WITH FITTINGS AS REQUIRED (POTHOLE TO VERIFY TYPE AND SIZE)
- S3 PROVIDE LATERAL WYE FITTING AND TWO WAY CLEANOUT (DETAILS SS4 AND 1/C4.3)
- S4 (E) SEWER - PROTECT IN PLACE
- S5 CONNECT TO EXISTING SEWER MANHOLE (DETAIL SS1/C4.3)

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 SCALE  
 ( IN FEET )  
 1 inch = 20 feet



**Revisions**


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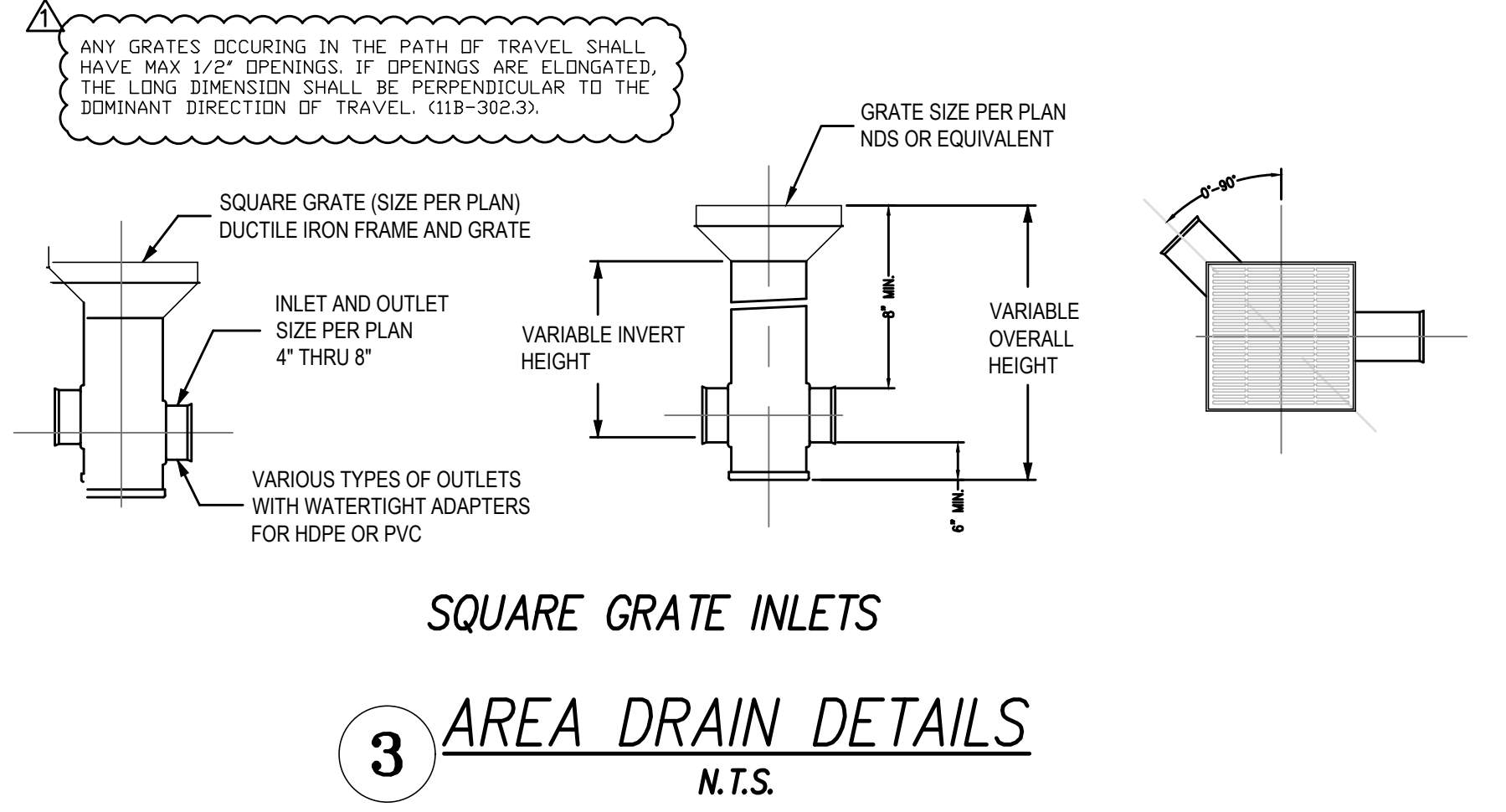
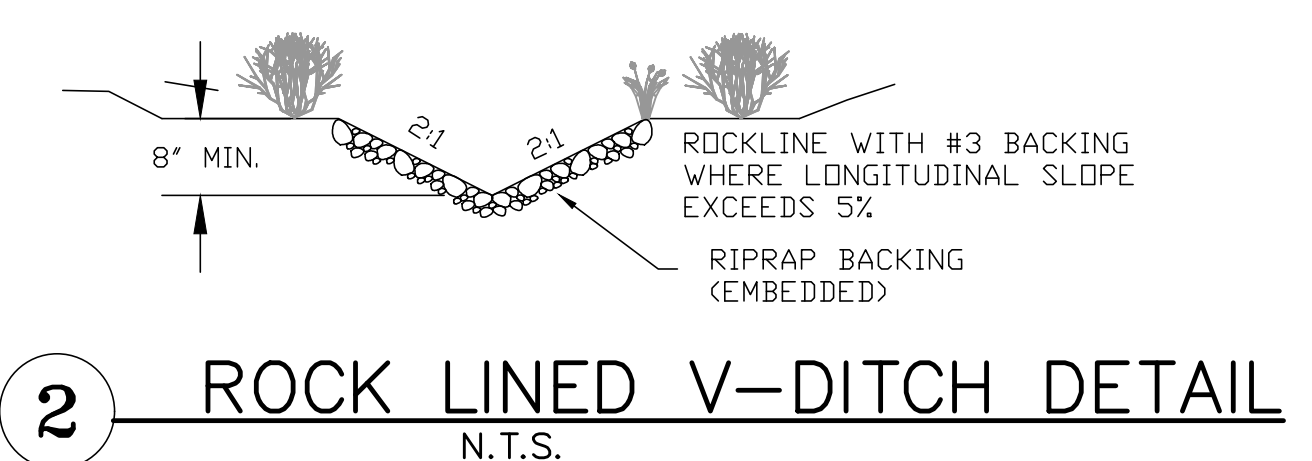
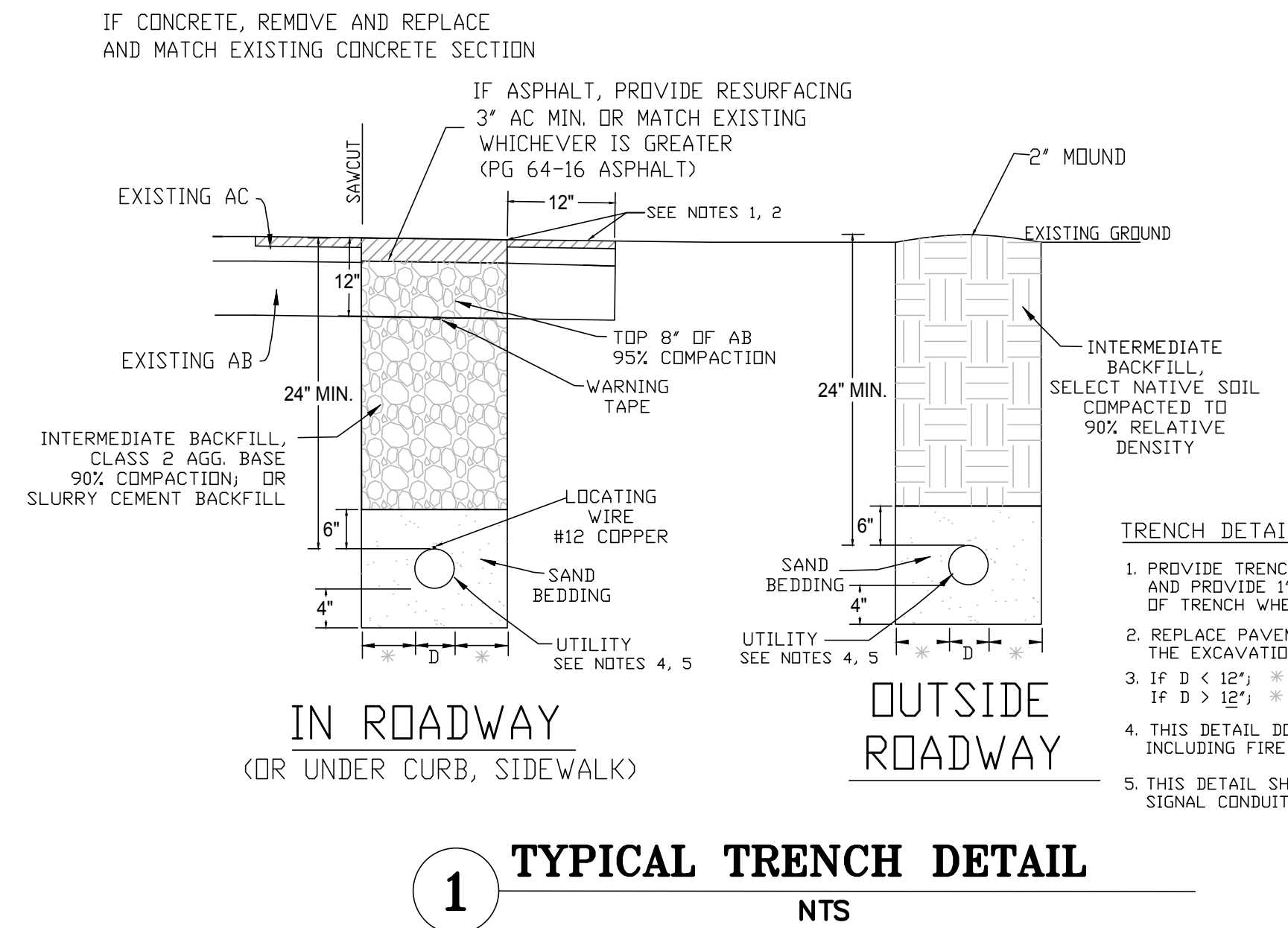
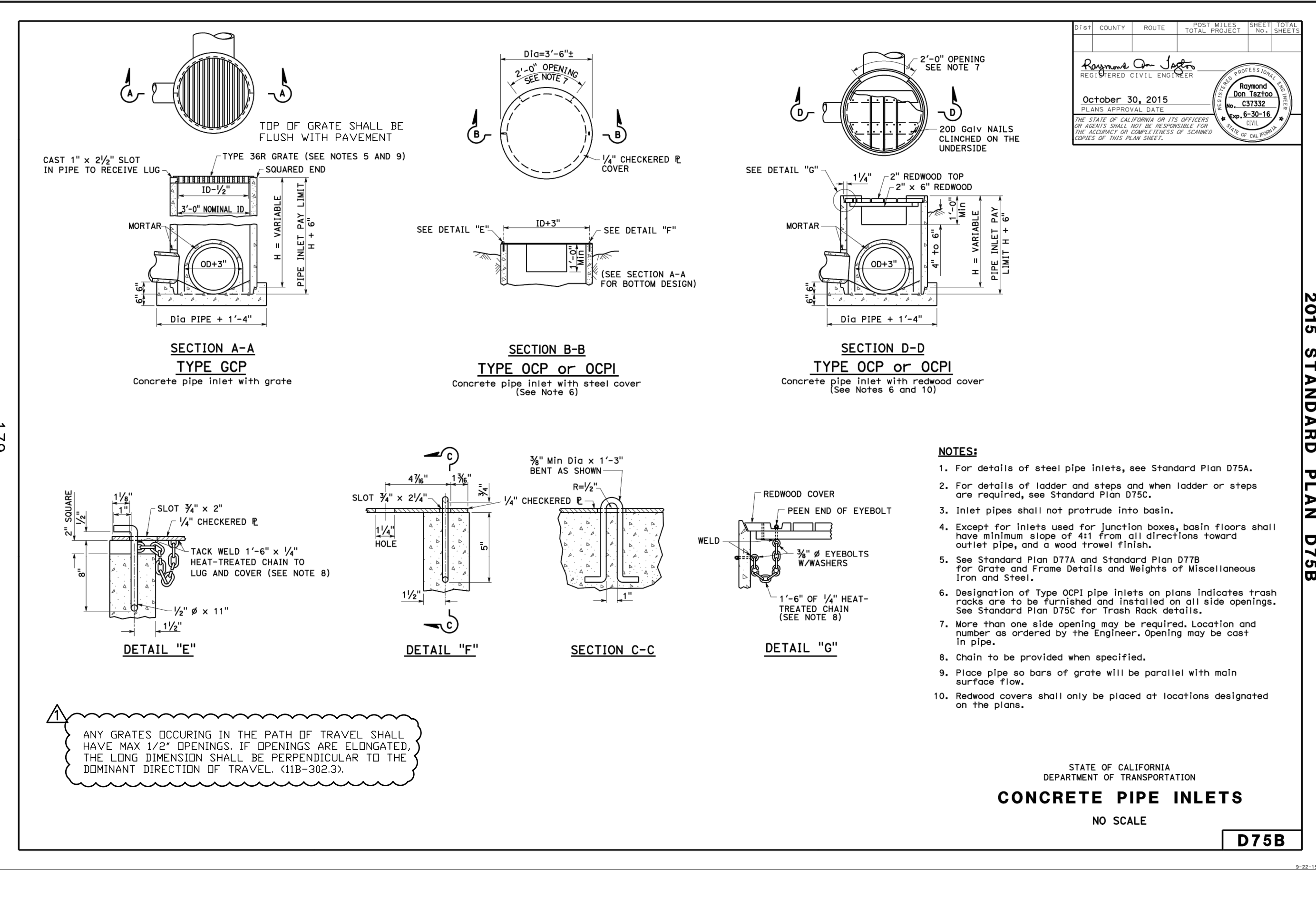
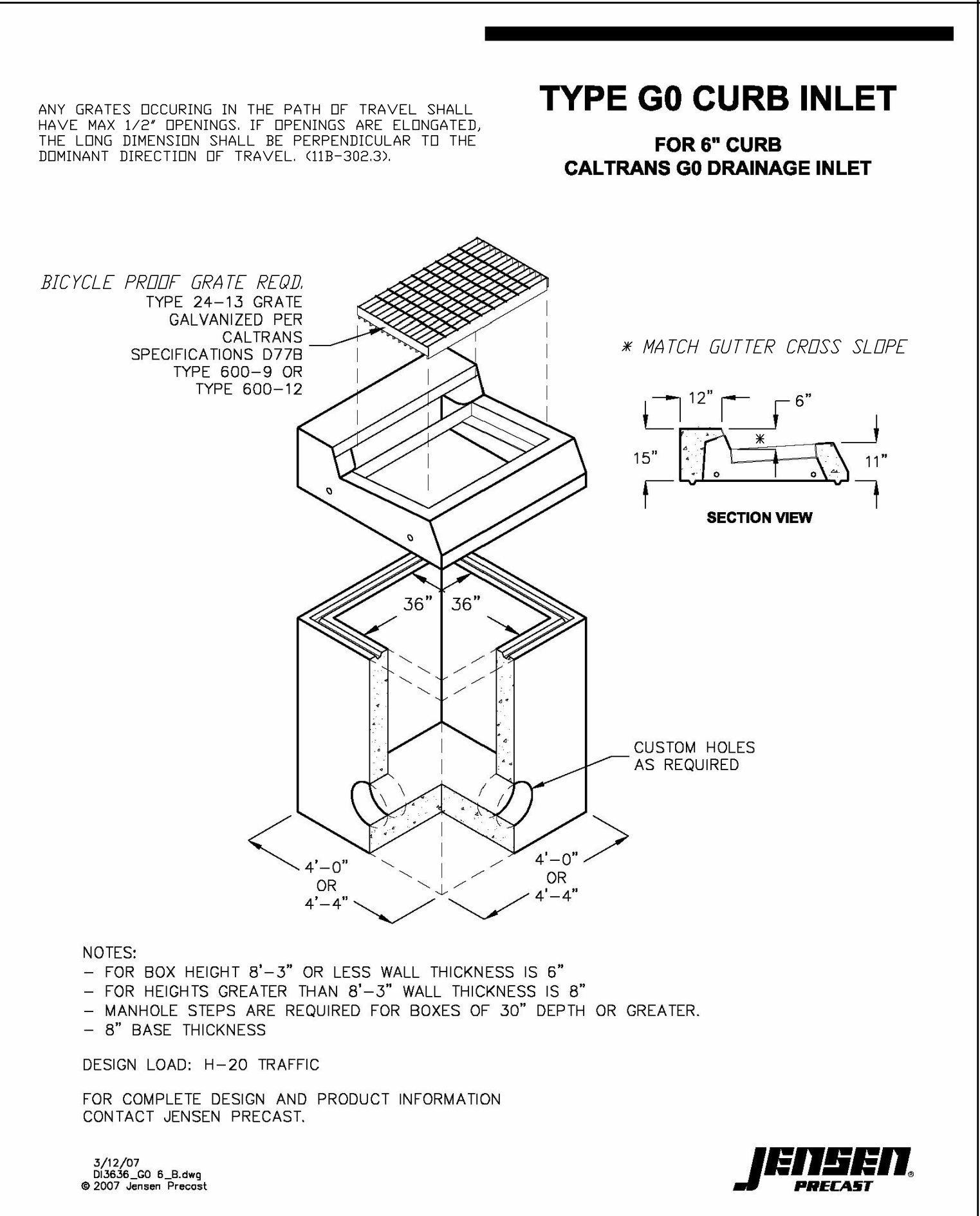
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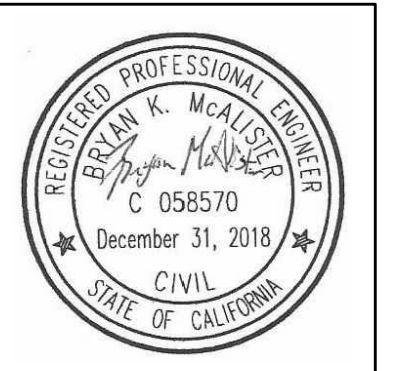
DATE: 7/12/18  
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UTILITY PLAN  
**C3.1**

L  
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FILE NO. COUNTY ROUTE TOTAL SHEETS SHEET NO. SHEETS  
October 30, 2015  
REVISIONS  
CIVIL ENGINEER  
C 058570  
December 31, 2018  
CIVIL  
STATE OF CALIFORNIA



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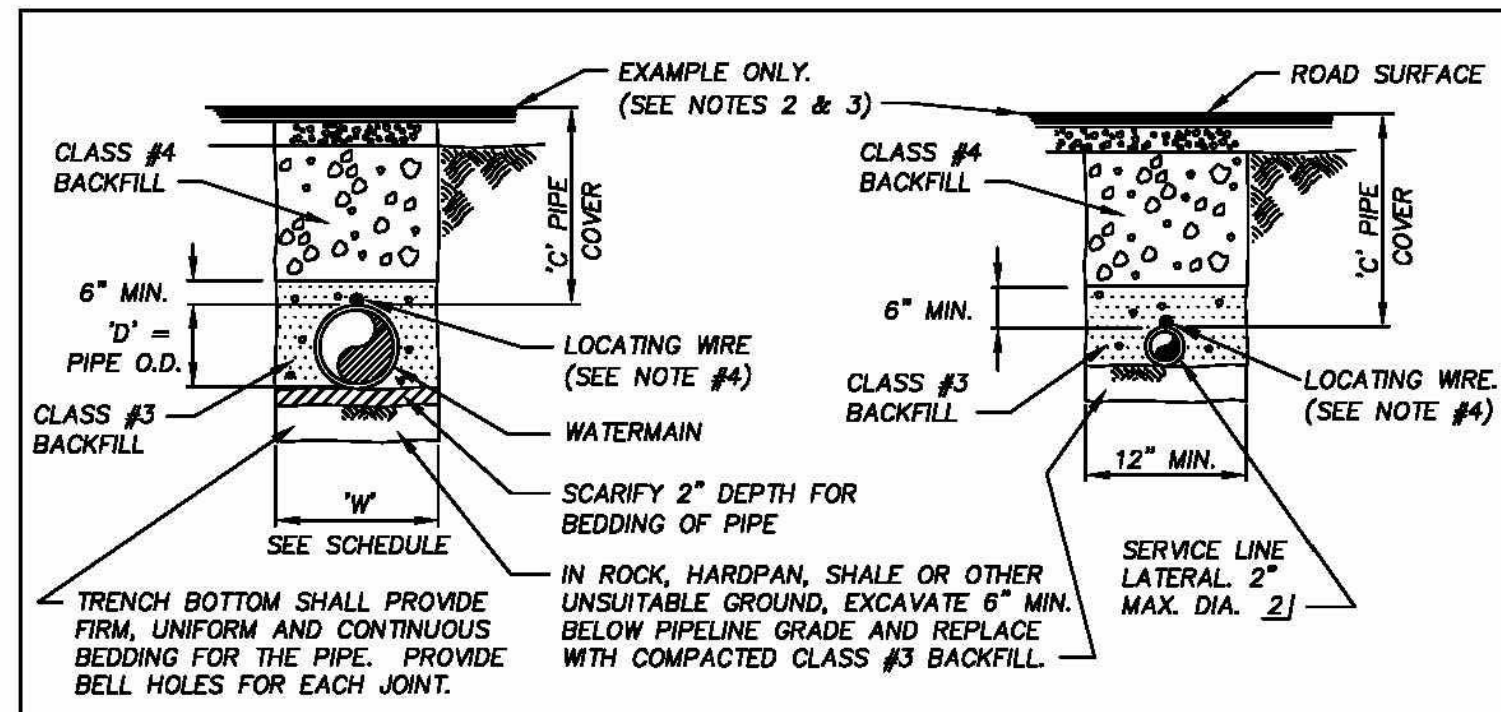
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POOL BUILDING RENOVATION  
for  
NJHSD  
NEVADA UNION HIGH SCHOOL, GRASS VALLEY, CA

DATE: 7/12/18  
SCALE: 17-429  
JOB NO.

GENERAL DETAILS  
**C4.1**



- NOTES:**
1. ALL MATERIALS AND INSTALLATION SHALL CONFORM TO "WATERMAINS" AND "SERVICE ASSEMBLIES" IN THE SPECIFICATIONS.
  2. TRENCH DETAILS FOR PIPELINES LOCATED ALONG OR ACROSS ROADWAYS SHALL CONFORM TO REQUESTS OF THE APPROPRIATE REGULATORY BODY.
  3. TRENCHES LOCATED OUTSIDE OF ROADWAYS SHALL HAVE BACKFILL SLIGHTLY MOUNDING OVER THE TRENCH UNLESS DETERMINED BY THE DISTRICT ENGINEER THAT A MOUND IS NOT NECESSARY.
  4. LOCATING WIRE SHALL BE COATED TO 10 GAUGE SOLID COPPER AND SHALL CONFORM TO DRAWING NID SD3.
  5. LOCATING WIRE SHOULD BE TAPED TO PIPE.
  6. COMMON TRENCH WITH OTHER UTILITIES WILL NOT BE ALLOWED.

**TRENCH WIDTH "W" SCHEDULE**

WATERMAIN SIZE "D"	MIN. TRENCH WIDTH FOR TANGENTS AND CURVES OVER 1000' RADIUS	MIN. TRENCH WIDTH FOR CURVES LESS THAN 1000' RADIUS
6"	18"	24"
8"	24"	30"
10" & LARGER	O.D. + 16"	O.D. + 16"

**PIPE COVER "C" SCHEDULE**

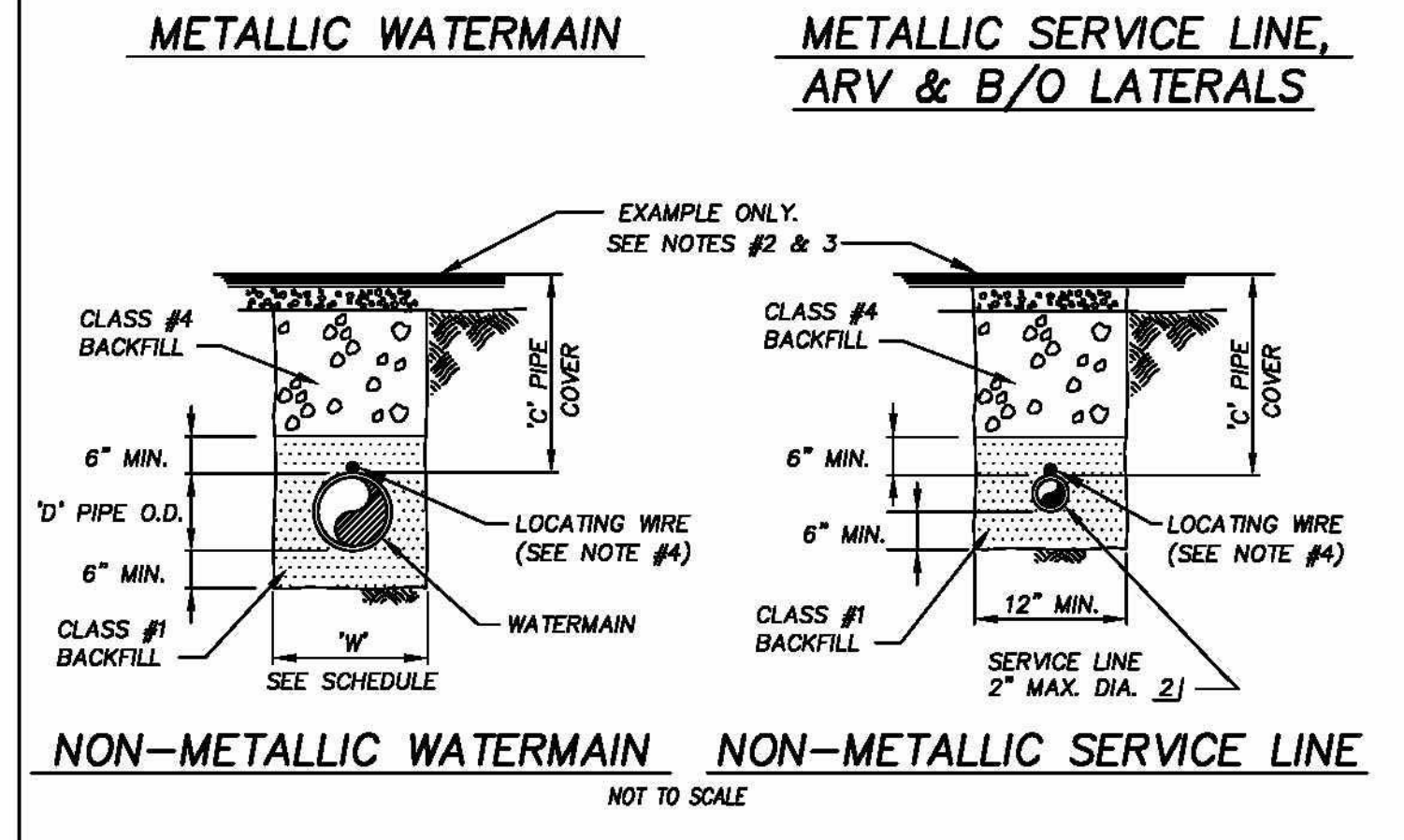
ITEM	MIN.	MAX.
WATERMAIN	PER PROFILE ON PLAN SHEETS	
SERVICE LINE & LATERALS	48"	48"
HYDRANT LATERAL	48"	48"

**BACKFILL CLASSIFICATION**

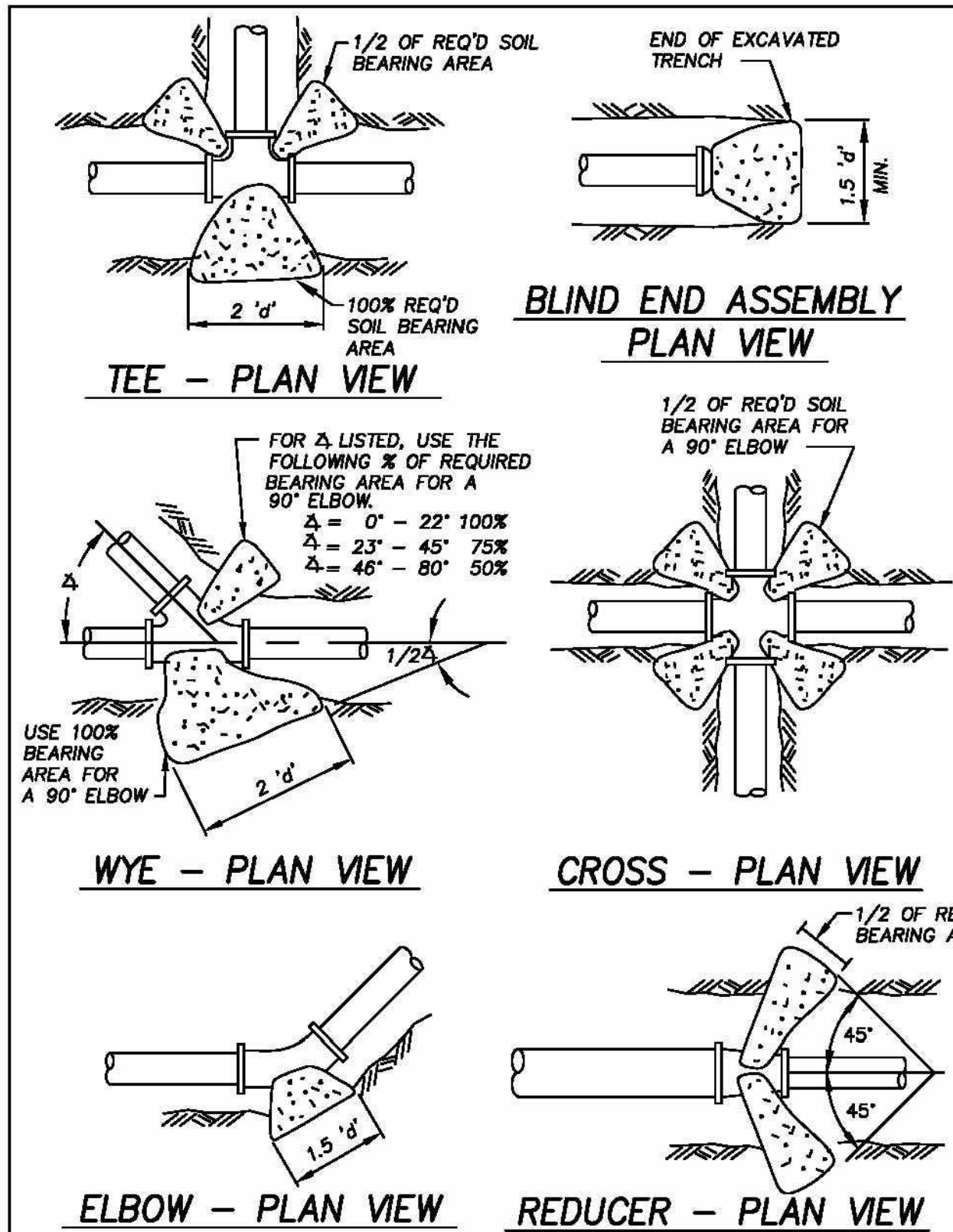
CLASS #	DESCRIPTION	SI	NO. 4	NO. 10	NO. 20
CLASS #1	CLEAN SAND-FREE FROM DELETERIOUS MATERIAL	1-1/2"	100	100	100
CLASS #2	SELECT EARTH FREE FROM DELETERIOUS MATERIAL AND MATERIAL	3/4"	75-100	100	100
CLASS #3	SELECT EARTH FREE FROM DELETERIOUS MATERIAL AND MATERIAL	NO. 4	55-100	75-100	100
CLASS #4	SELECT EARTH FREE FROM DELETERIOUS MATERIAL AND MATERIAL	NO. 20	0-15	0-5	0-5

**TRENCH BACKFILL COMPACTION SCHEDULE**

ITEM	INSIDE ROADWAY	OUTSIDE ROADWAY
WATERMAIN	95% MIN.	85% MIN.
SERVICE LINES & ARV LATERALS	95% MIN.	85% MIN.
HYDRANT LATERAL	95% MIN.	95% MIN.



**WATERMAIN, SERVICE LINE AND LATERAL TRENCH DETAILS** NOT TO SCALE **NID SD1**



- NOTES:**
1. MATERIALS AND INSTALLATION SHALL CONFORM TO REACTION BLOCKING FOR "WATERMAINS" IN THE SPECIFICATIONS.
  2. THRUST BLOCKS SHALL BE PLACED AT ALL HORIZONTAL DEFLECTIONS IN EXCESS OF 6" AND ALL DOWNWARD VERTICAL DEFLECTIONS IN EXCESS OF 6".
  3. MAXIMUM ESTIMATED SOIL BEARING CAPACITY SHALL NOT EXCEED 2,000 P.S.F. UNLESS OTHERWISE APPROVED BY DISTRICT ENGINEER.
  4. MINIMUM SOIL BEARING AREAS ARE BASED ON A WORKING PRESSURE 150 P.S.I. WITH A 1.5 SAFETY FACTOR PLUS 75 P.S.I. SURGE (TOTAL 300 P.S.I.)
  5. CONCRETE SHALL BE PLACED BETWEEN THE FITTING AND UNDISTURBED SOIL.
  6. THRUST BLOCKS SHALL BE NEATLY FORMED USING PLYWOOD OR SANDBAGS. FORMING MATERIALS SHALL BE REMOVED UPON INITIAL CURE OF CONCRETE & PRIOR TO BACKFILLING.
  7. THRUST BLOCKS SHALL BE CONSTRUCTED OF 2,000 PSI CONCRETE.
  8. CONCRETE SHALL NOT BE PLACED ON OR AROUND PIPE BELLS, FLANGES OR OTHER JOINTS. IF UNAVOIDABLE, AND WITH APPROVAL OF THE DISTRICT ENGINEER, THESE AREAS SHALL BE PROTECTED WITH A DOUBLE WRAP OF 6 MIL POLYETHYLENE FILM.
  9. THRUST BLOCKS PLACED ON BLIND FLANGES ADJACENT TO OTHER THRUST BLOCKS ON THE SAME FITTING SHALL BE SEPARATED FROM THE PERMANENT THRUST BLOCKS WITH A PLYWOOD DIVIDER IN ORDER TO FACILITATE ITS REMOVAL.

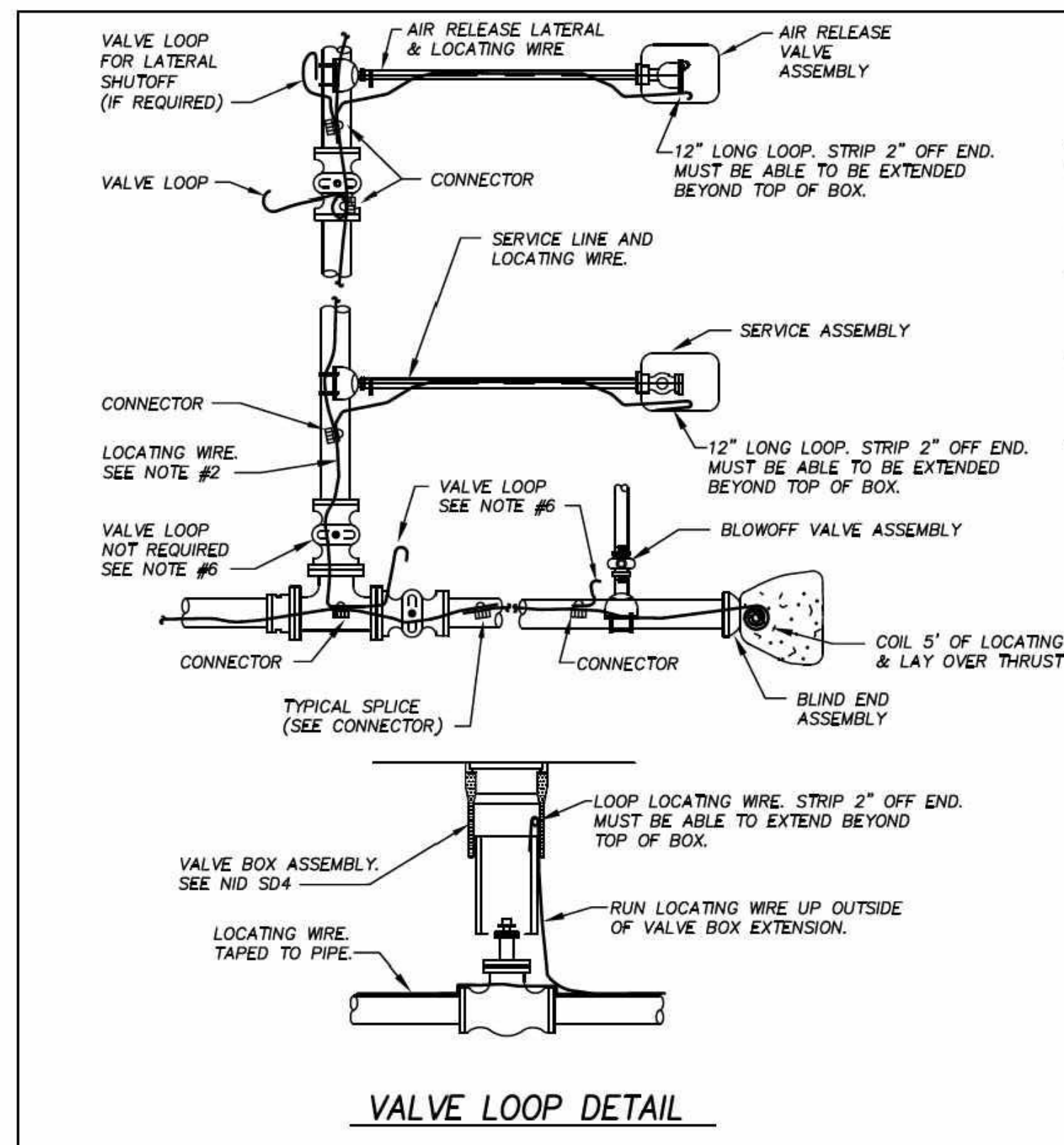
**THRUST BLOCK SCHEDULE**

PIPE SIZE	MAX. SOIL BEARING CAPACITY (1,000 P.S.F.)	REQUIRED SOIL BEARING (SO. FT.) - SEE NOTE #4				REDUCER OR CROSS
		BLIND END OR TEE	ELBOW	90°-45°	45°-23°	
4"	10	2	2	1	1	2
6"	4	3	3	2	1	3
8"	2	5	6	4	2	6
10"	1	9	12	8	4	12
12"	10	4	3	2	2	3
14"	4	4	3	3	2	9
16"	2	6	11	6	3	11
18"	1	16	22	12	6	22
20"	10	3	4	2	2	4
22"	4	6	9	5	3	9
24"	2	12	17	10	5	17
26"	1	24	34	20	10	34
28"	10	4	5	3	2	5
30"	4	9	12	7	2	12
32"	2	17	24	13	7	24
34"	1	34	48	26	14	48

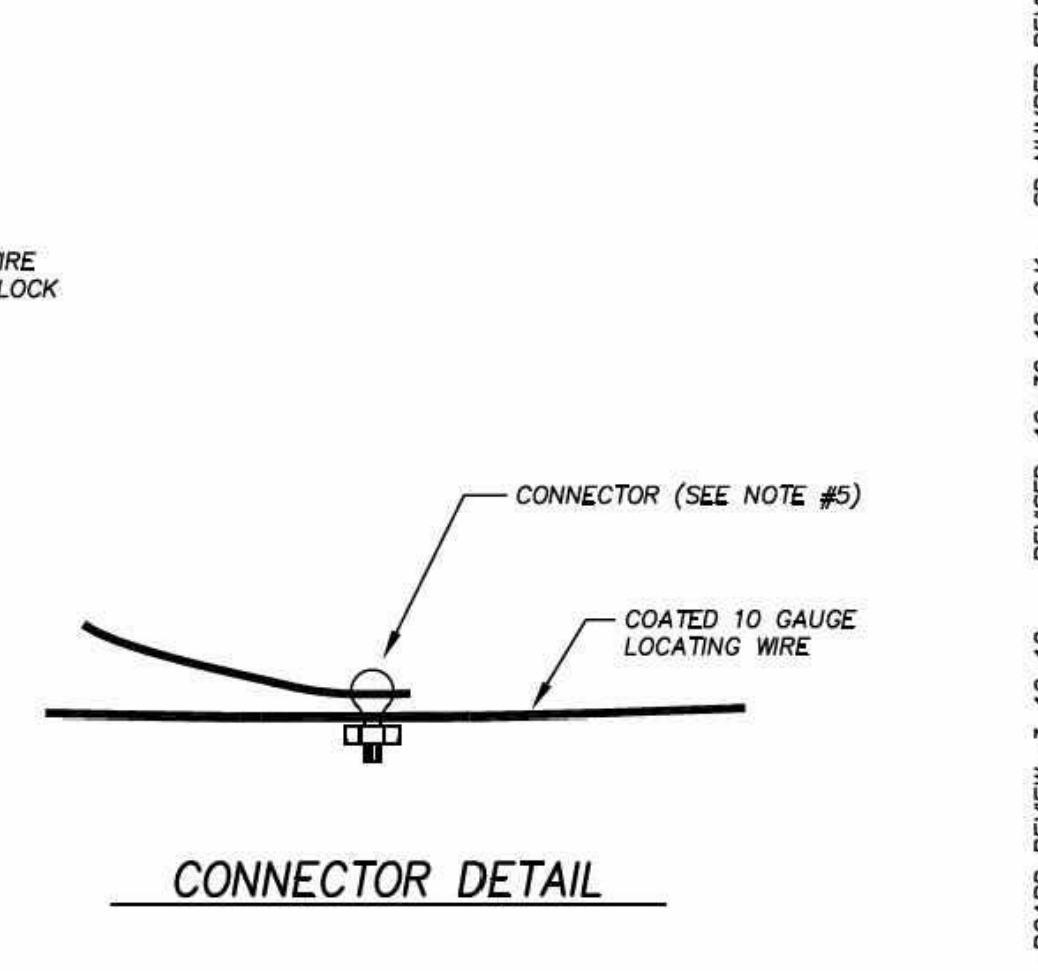
**SOIL DESCRIPTION**

1	HARD, SOUND SHALE
2	SAND & GRAVEL CEMENTED WITH CLAY-HARD TO PICK
3	SANDY MEDIUM CLAY - CAN BE SPADED
4	SOFT CLAY

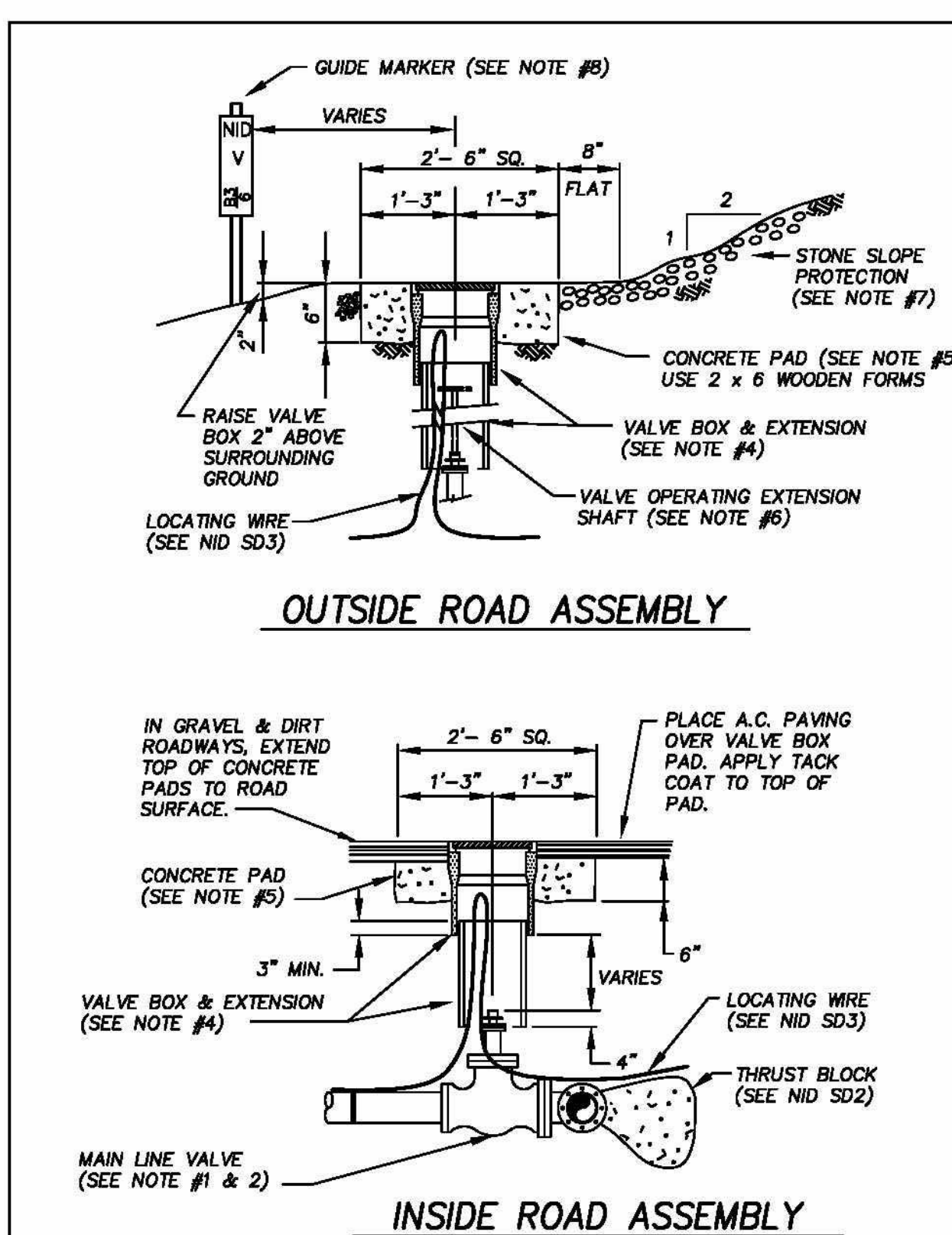
**THRUST BLOCKS** NOT TO SCALE **NID SD2**



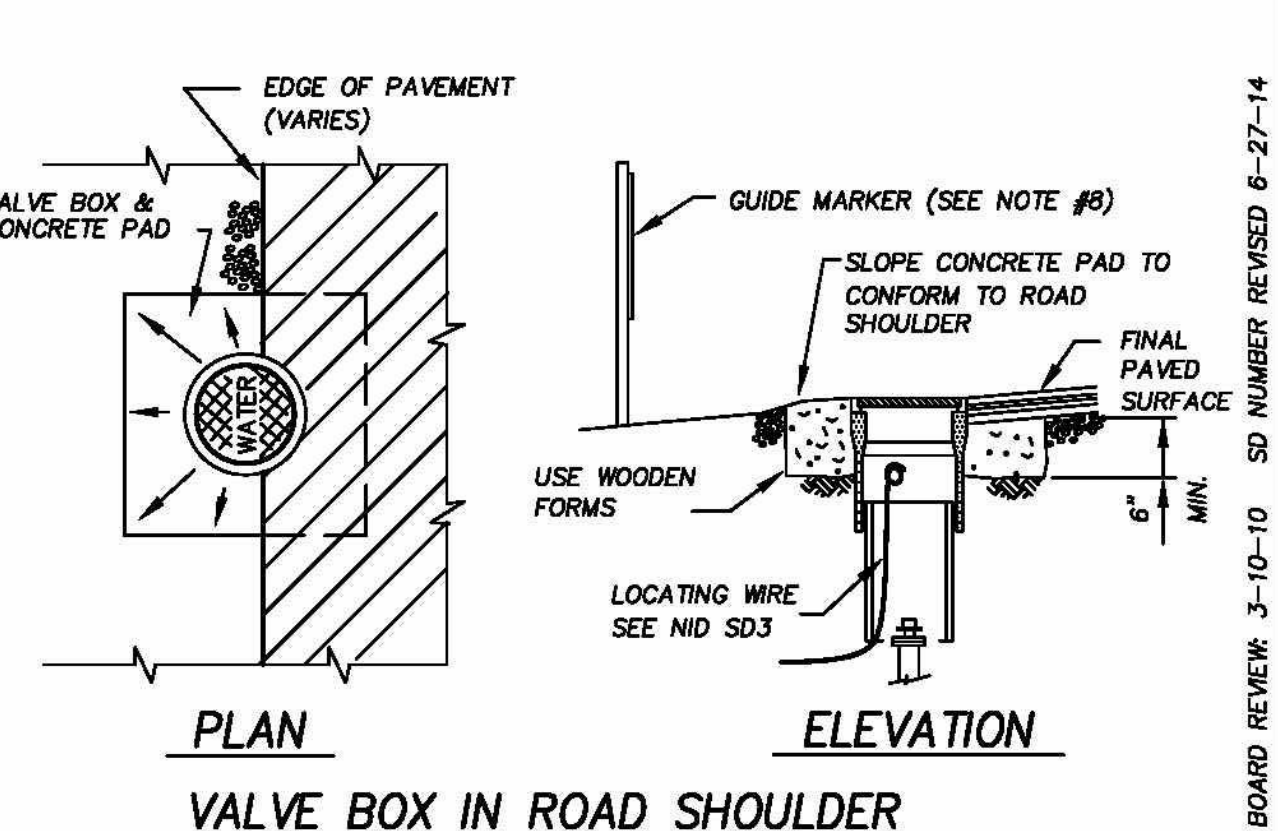
- NOTES:**
1. ALL MATERIALS AND INSTALLATION SHALL CONFORM TO LOCATING WIRE AND CONNECTORS FOR "WATERMAINS" IN THE SPECIFICATIONS.
  2. LOCATING WIRE SHALL BE COATED TO 10 GAUGE SOLID COPPER.
  3. LOCATING WIRE SHALL BE PLACED ABOVE AND CENTERED OVER ALL NON-METALLIC PIPE AND OVER ALL METALLIC PIPE USING "O" RING JOINTS WITHOUT BONDING STRAPS.
  4. LOCATING WIRE SHALL BE PLACED OVER ALL SERVICE LINES INCLUDING PRIVATE FIRE SERVICE LATERALS AND AIR RELEASE VALVE LATERALS.
  5. ALL CONNECTORS FOR SPLICES AND OTHER CONNECTIONS TO THE LOCATING WIRES SHALL BE MADE WITH SPLIT BOLT OR PARALLEL CONNECTORS - (NO WIRE NUTS). ALL SPLICES AND CONNECTIONS AND THE CONNECTOR SHALL BE WRAPPED THOROUGHLY WITH VINYL ELECTRICAL TAPE.
  6. VALVE LOOPS ARE REQUIRED FOR ONLY ONE VALVE IN A CLUSTER OF VALVES PROVIDING THEY ARE ALL WITHIN A 2' RADIUS.
  7. ALL BLOWOFF VALVES AND AIR RELEASE LATERAL SHUTOFF VALVES (IF REQUIRED) SHALL BE INSTALLED WITH A LOCATING WIRE VALVE LOOP.
  8. ALL LOCATING WIRE SHALL BE TESTED FOR CONTINUITY.



**LOCATING WIRE** NOT TO SCALE **NID SD3**



- NOTES:**
1. ALL MATERIALS AND INSTALLATIONS SHALL CONFORM TO "MAINLINE VALVES" IN THE SPECIFICATIONS.
  2. VALVES SHALL BE OF THE TYPE ALLOWED IN THE SPECIFICATIONS.
  3. JOINTS MAY BE FLANGED, MECHANICAL OR "O" RING PUSH ON JOINTS EXCEPT WHERE SPECIFIC TYPES OF JOINTS ARE SHOWN ON THE PLANS OR DESIGNATED IN THE SPECIFICATIONS. ALL JOINTS SHALL BE PROTECTED FROM CORROSION AS REQUIRED IN THE SPECIFICATIONS.
  4. VALVE BOXES SHALL BE CHRISTY G5 WITH A RATTLEPROOF CAST IRON LID MARKED "WATER". BOX EXTENSIONS SHALL BE PRECAST CONCRETE OR 8" SMOOTH WALL P.V.C. PIPE WITH MIN. SDR OF 35 AND ENDS CUT SQUARE. BOX EXTENSIONS SHALL BE CENTERED OVER THE VALVE OPERATING NUT AND CONCENTRIC WITH THE VALVE STEM.
  5. VALVE BOX PADS SHALL BE 3,000 P.S.I. CONCRETE.
  6. A VALVE OPERATOR EXTENSION SHAFT SHALL BE FURNISHED AND INSTALLED FOR ALL VALVES WITH OPERATING NUTS PLACED 36" OR MORE BELOW THE TOP OF THE VALVE BOX. REFER TO NID SD9.
  7. PLACE STONE SLOPE PROTECTION OF NO. 3 BACKING ROCK PER CALTRANS SEC. 72, ON ALL CUT SLOPES SURROUNDING VALVE ASSEMBLIES AS DIRECTED.
  8. A GUIDE MARKER SHALL BE FURNISHED AND INSTALLED AS DIRECTED. REFER TO DRAWING NID SD9.



**MAINLINE VALVE ASSEMBLY** NOT TO SCALE **NID SD4**

BOARD REVIEW: 3-10-10 REVISED: 10-30-12 G.K. SD NUMBER REVISED 6-27-14

BOARD REVIEW: 3-10-10 REVISED: 10-30-12 G.K. SD NUMBER REVISED 6-27-14



**Revisions**

NO.	DATE	DESCRIPTION

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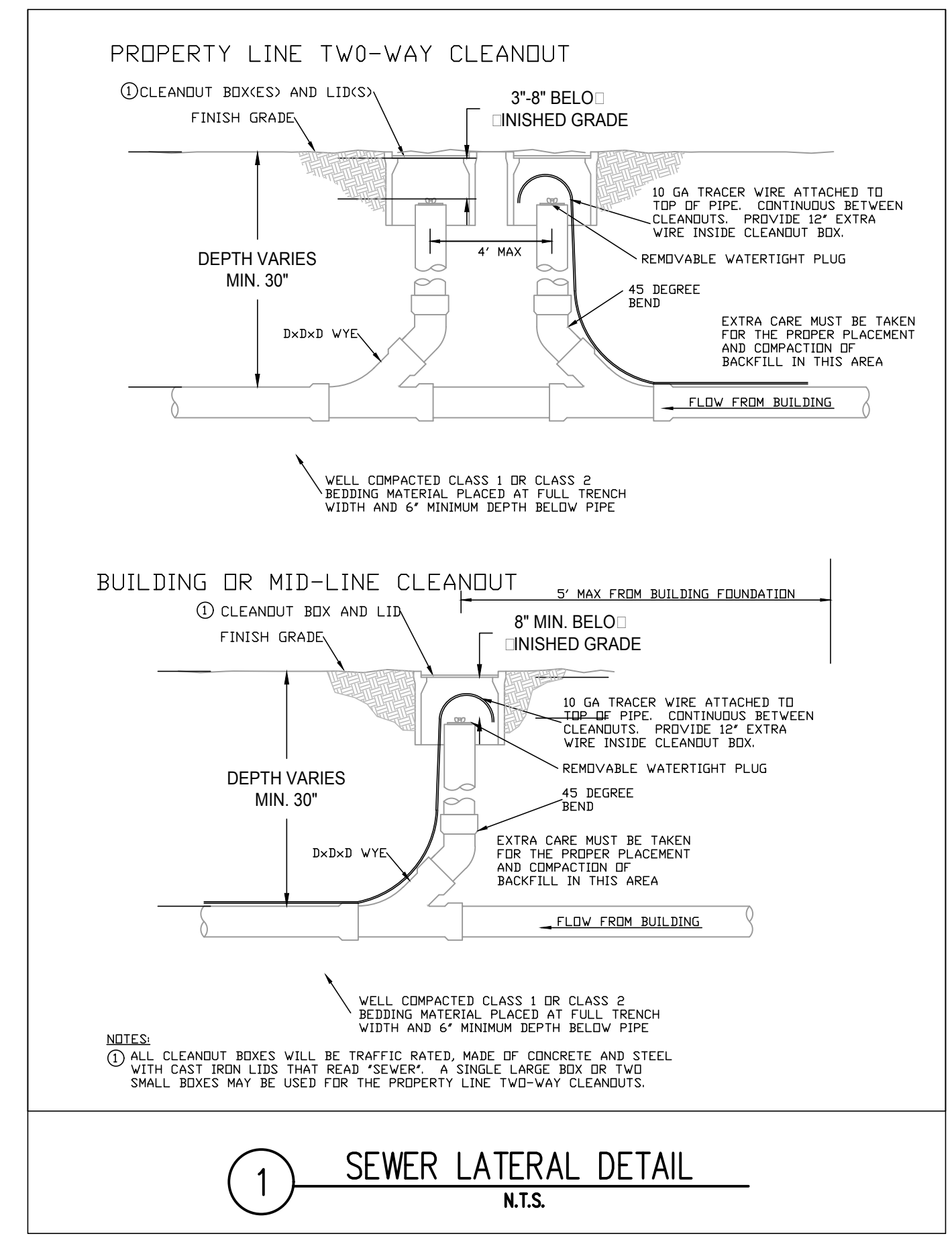
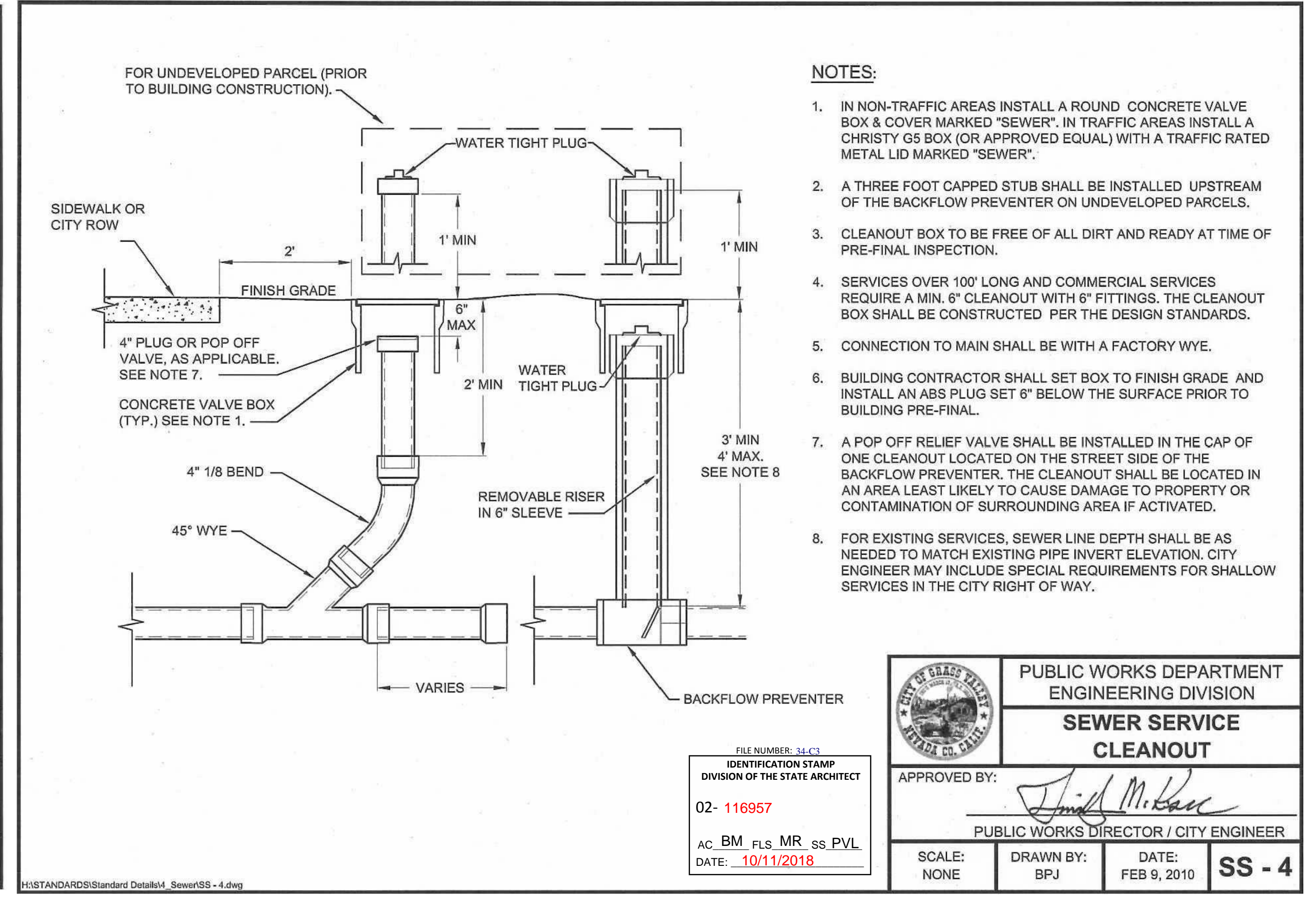
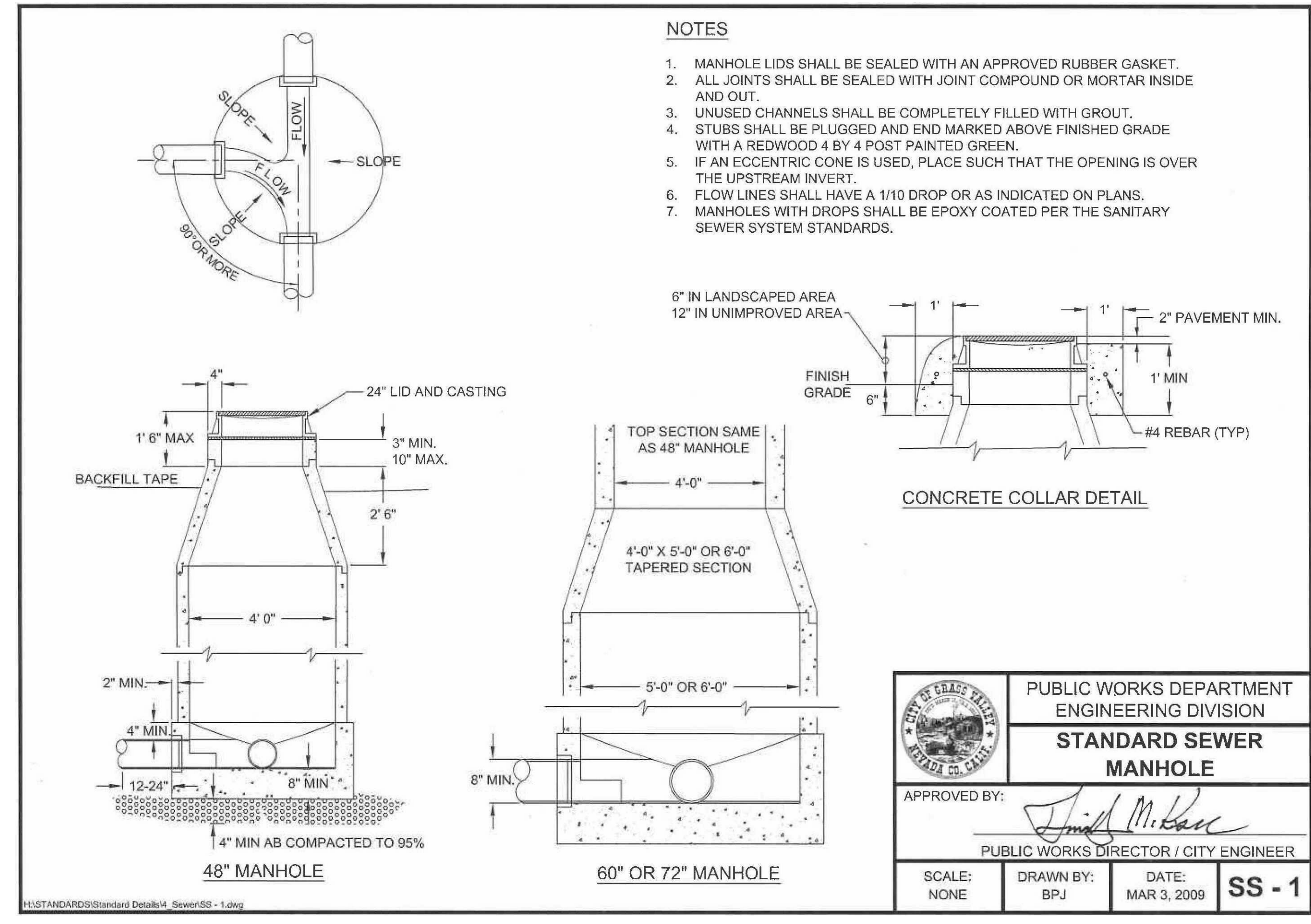
**POOL BUILDING RENOVATION** for **NJHSD**  
 NEVADA UNION HIGH SCHOOL, GRASS VALLEY, CA

date: 7/12/18  
 scale: 17-429

ATER DETAILS  
**C4.2**

FILE NUMBER: 34-C3  
 IDENTIFICATION STAMP  
 DIVISION OF THE STATE ARCHITECT  
 02-116957  
 AC\_BM\_FLS\_MR\_SS\_PVL  
 DATE: 10/11/2018

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**Revisions**


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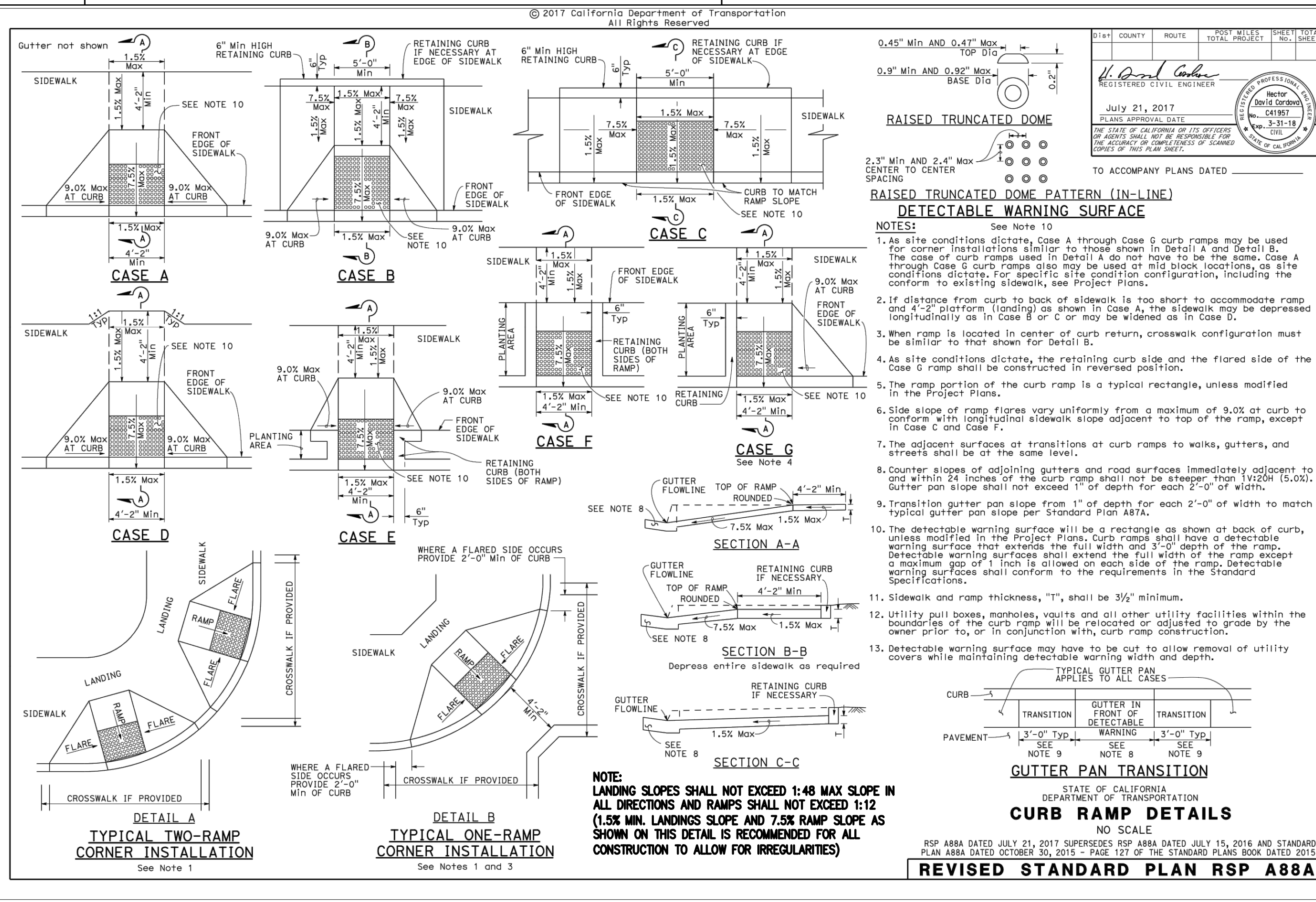
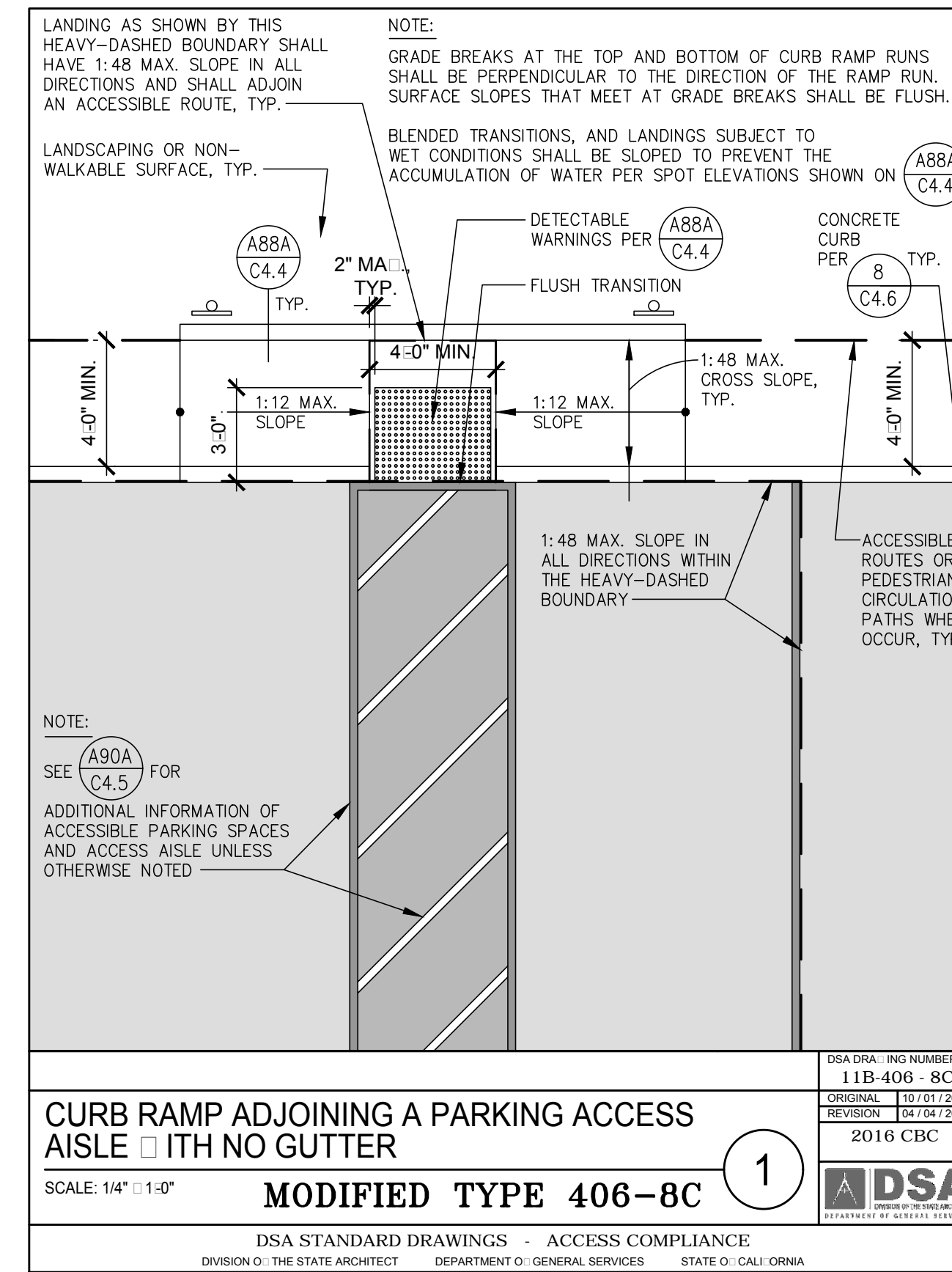
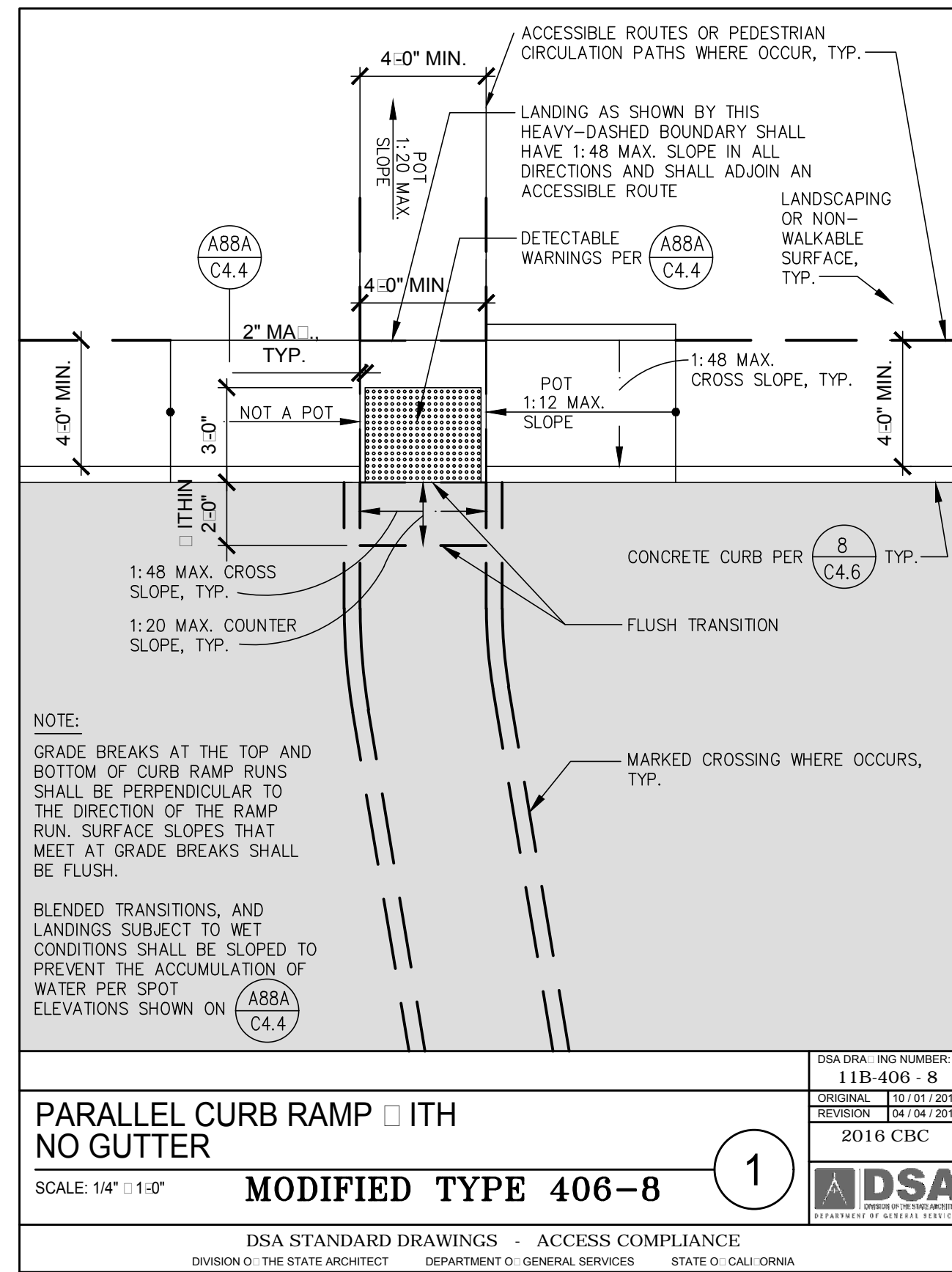
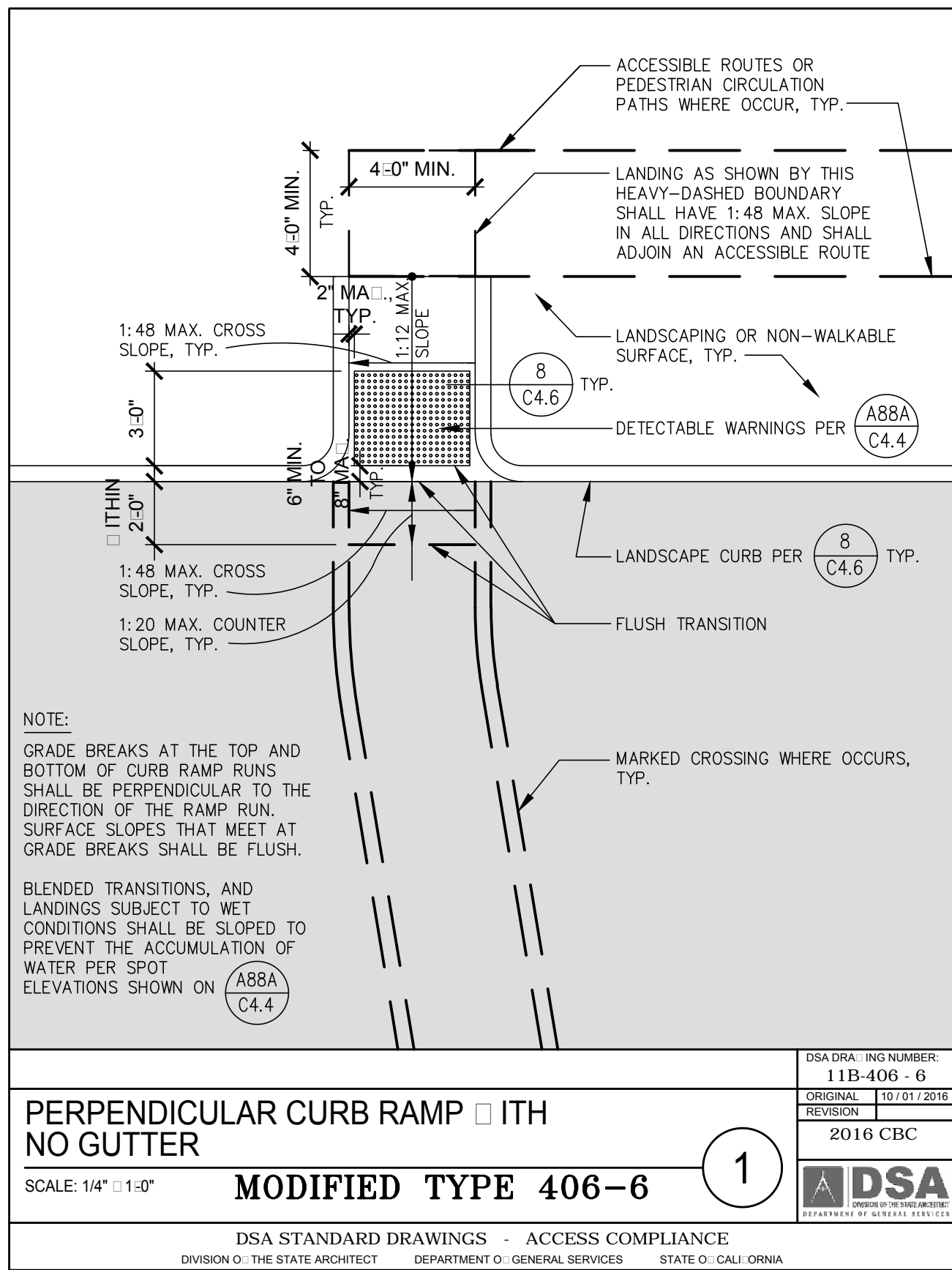
**POOL BUILDING RENOVATION**  
 for  
**NJHSD**  
 NEVADA UNION HIGH SCHOOL, GRASS VALLEY, CA

DATE: 7/12/18  
 SCALE: 17-429

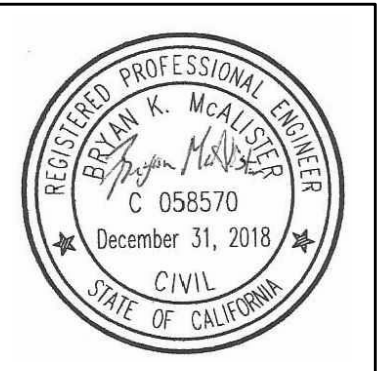
**SEWER DETAILS**  
**C4.3**

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FILE NUMBER: 34-C3  
IDENTIFICATION STAMP  
DIVISION OF THE STATE ARCHITECT  
02- 116957  
AC, BM, FLS, MR, SS, PVL  
DATE: 10/11/2018



Revisions

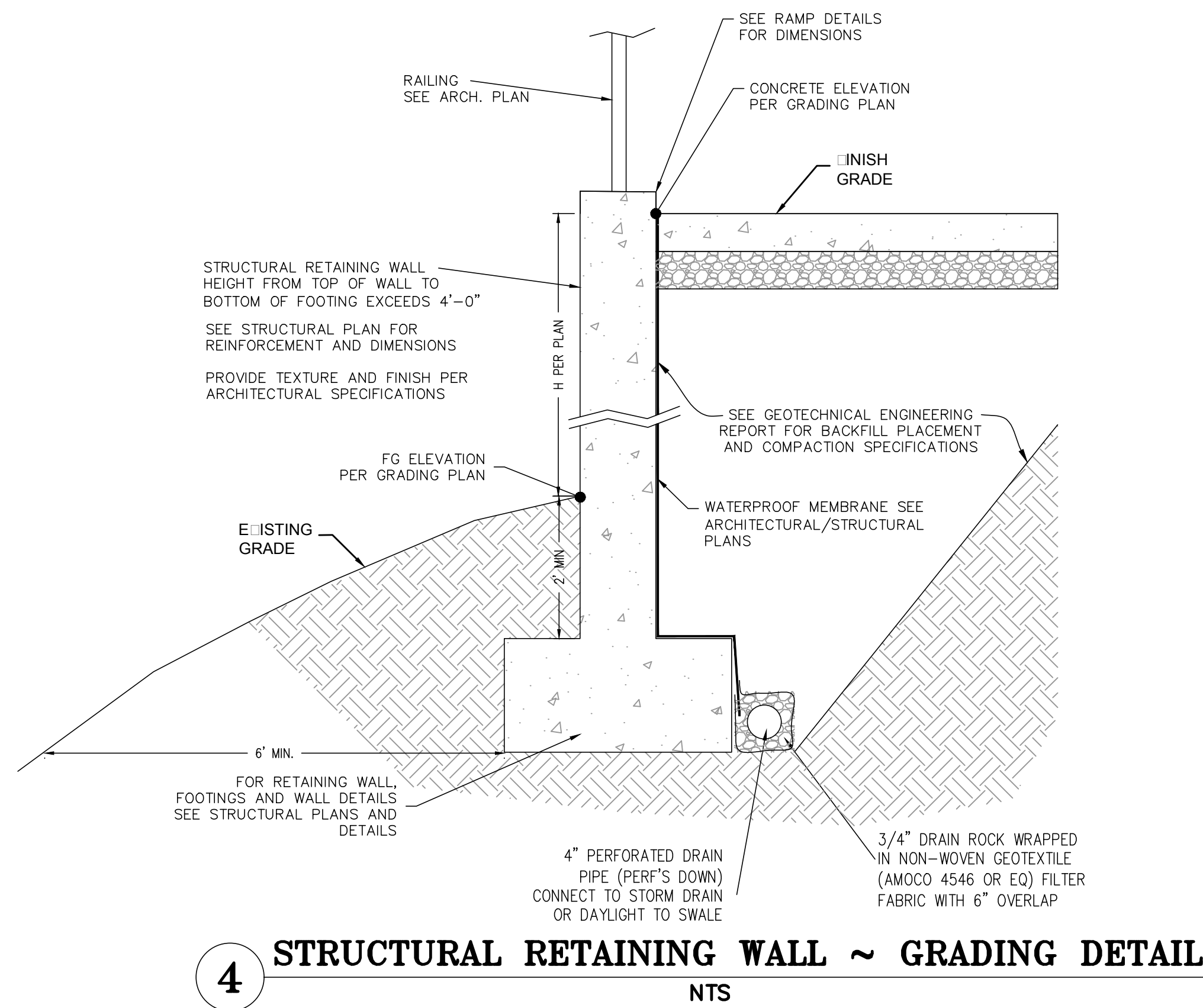
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POOL BUILDING RENOVATION  
for  
NJHSD  
NEVADA UNION HIGH SCHOOL, GRASS VALLEY, CA

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**4 STRUCTURAL RETAINING WALL ~ GRADING DETAIL**  
NTS

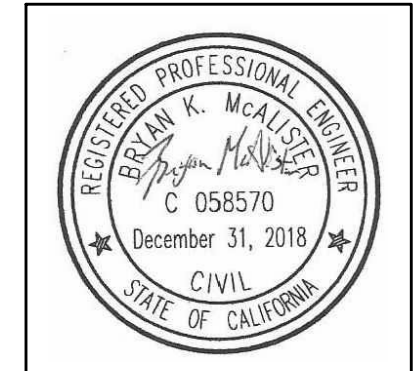
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TOTAL NUMBER OF PARKING SPACES PROVIDED IN PARKING FACILITY	MINIMUM NUMBER OF REQUIRED ACCESSIBLE PARKING SPACES
1-25	1
26-50	2
51-75	3
76-100	4
101-150	5
151-200	6
201-300	7
301-400	8
401-500	9
501-1000	2 PERCENT OF TOTAL
1001 and OVER	20 PLUS 1 FOR EACH 100 OR FRACTION THEREOF OVER 1000

**REVISIONS**

NO. | DATE | DESCRIPTION

2015 REVISED STANDARD PLAN RSP A90A

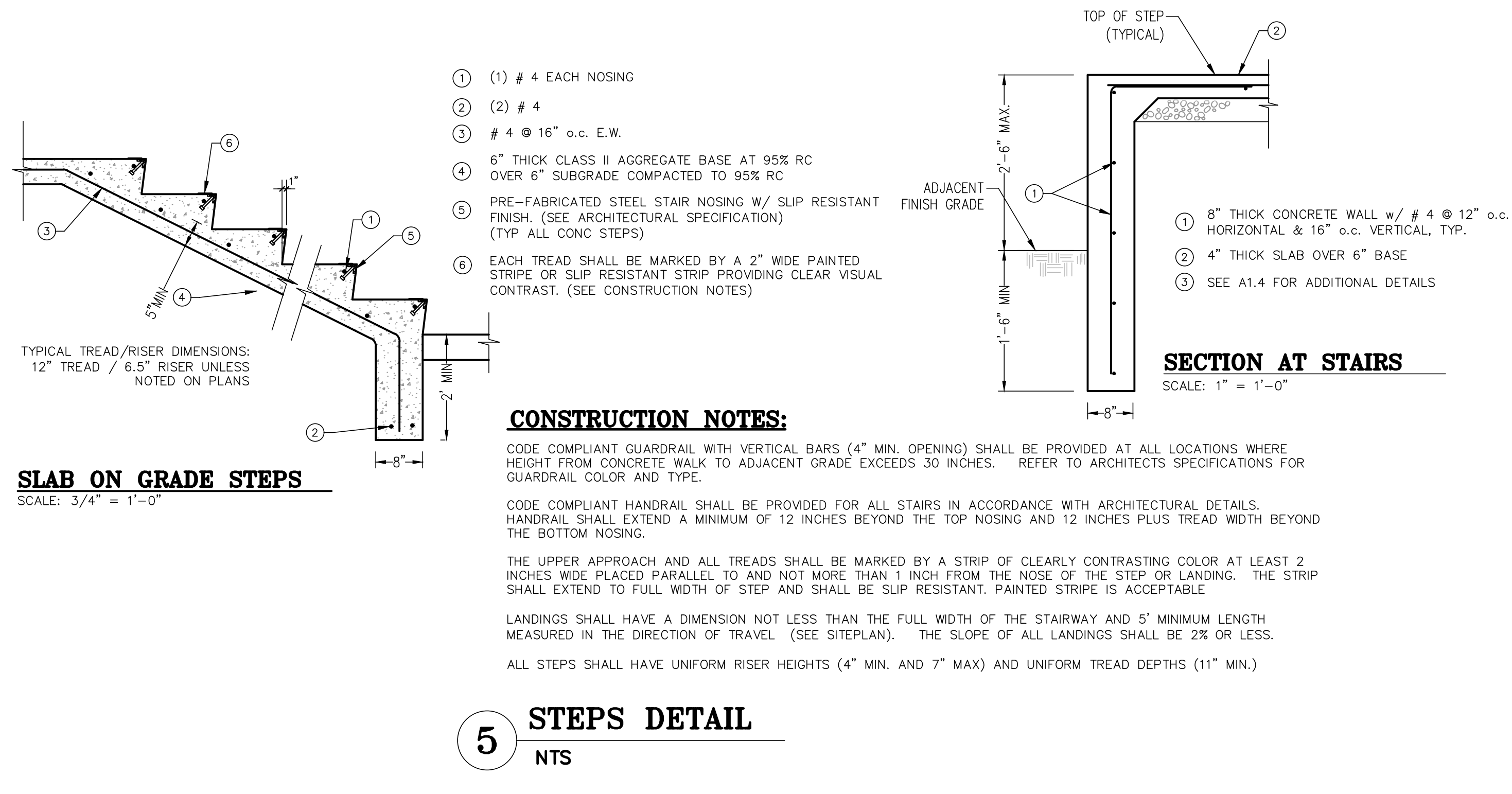


**Revisions**

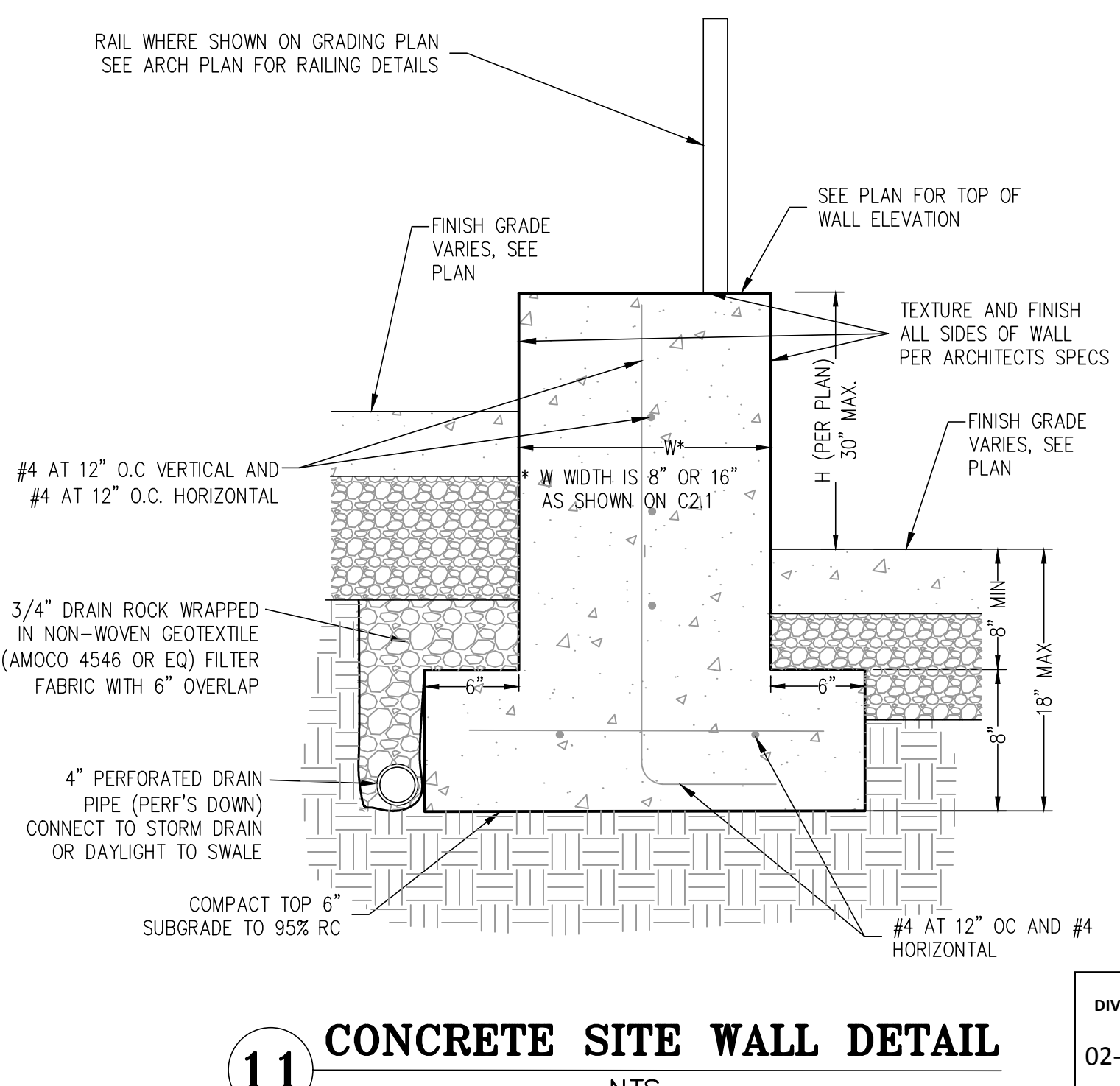
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**5 STEPS DETAIL**  
NTS



**11 CONCRETE SITE WALL DETAIL**  
NTS

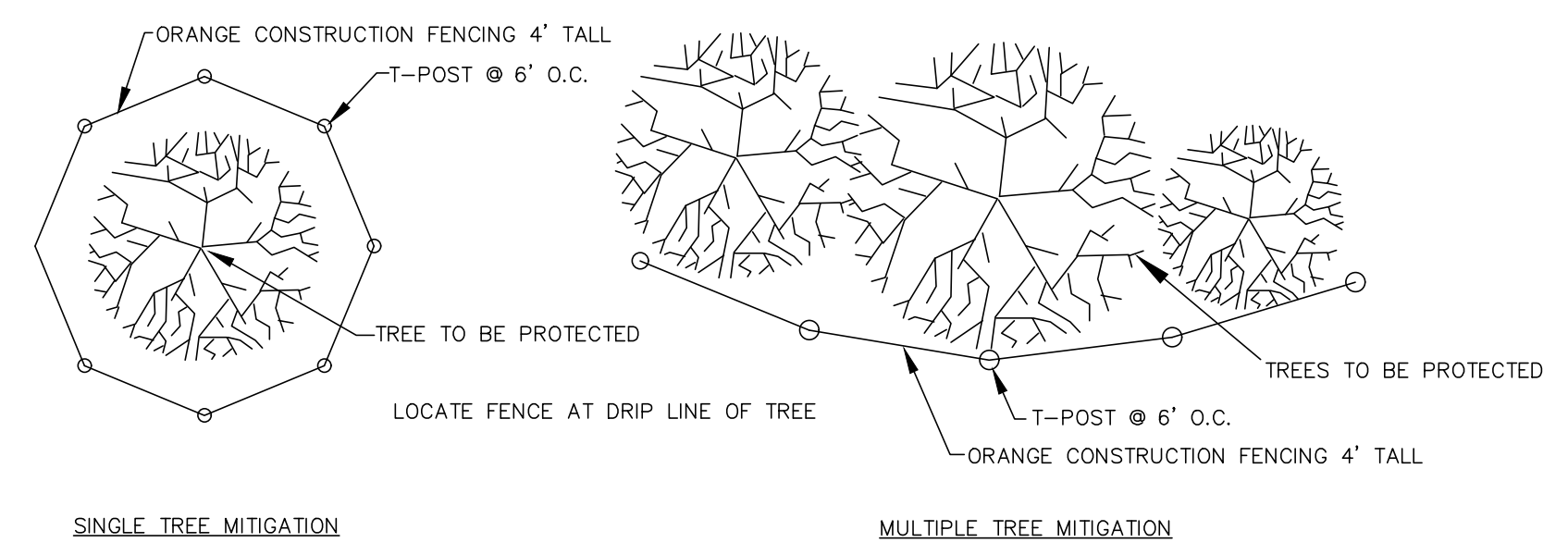
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IDENTIFICATION STAMP  
DIVISION OF THE STATE ARCHITECT  
02-116957  
AC BM FLs MR ss PVL  
DATE: 10/11/2018

POOL BUILDING RENOVATION  
for  
NJHSD  
NEVADA UNION HIGH SCHOOL, GRASS VALLEY, CA

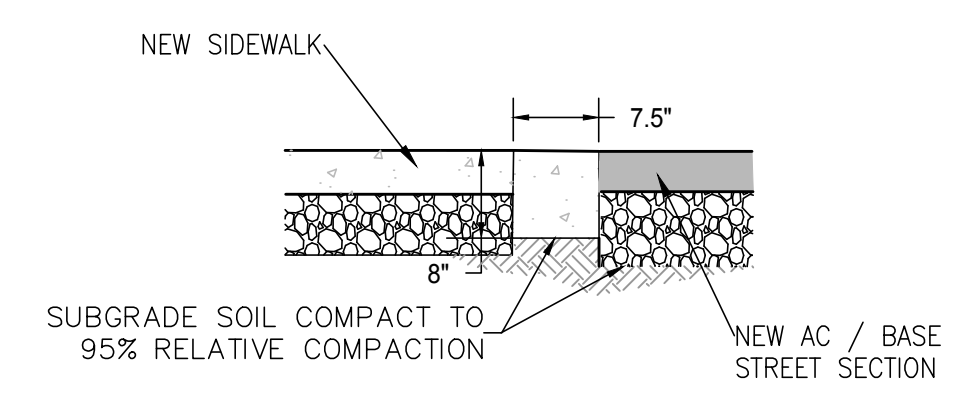
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SCALE: 1/8" = 1'-0"  
NO. P: 17-429

GENERAL DETAILS  
**C4.5**

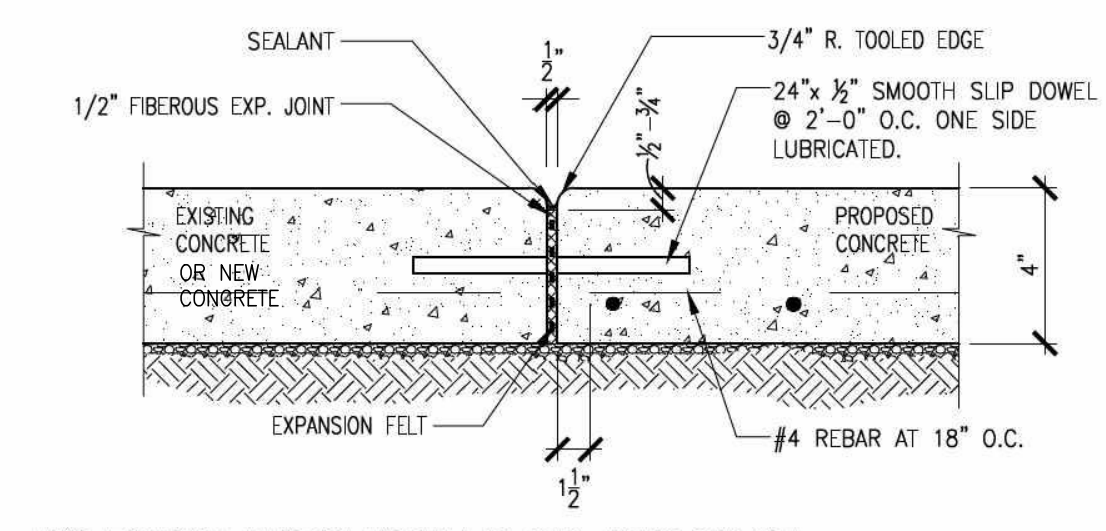




**1 TREE MITIGATION DETAIL**  
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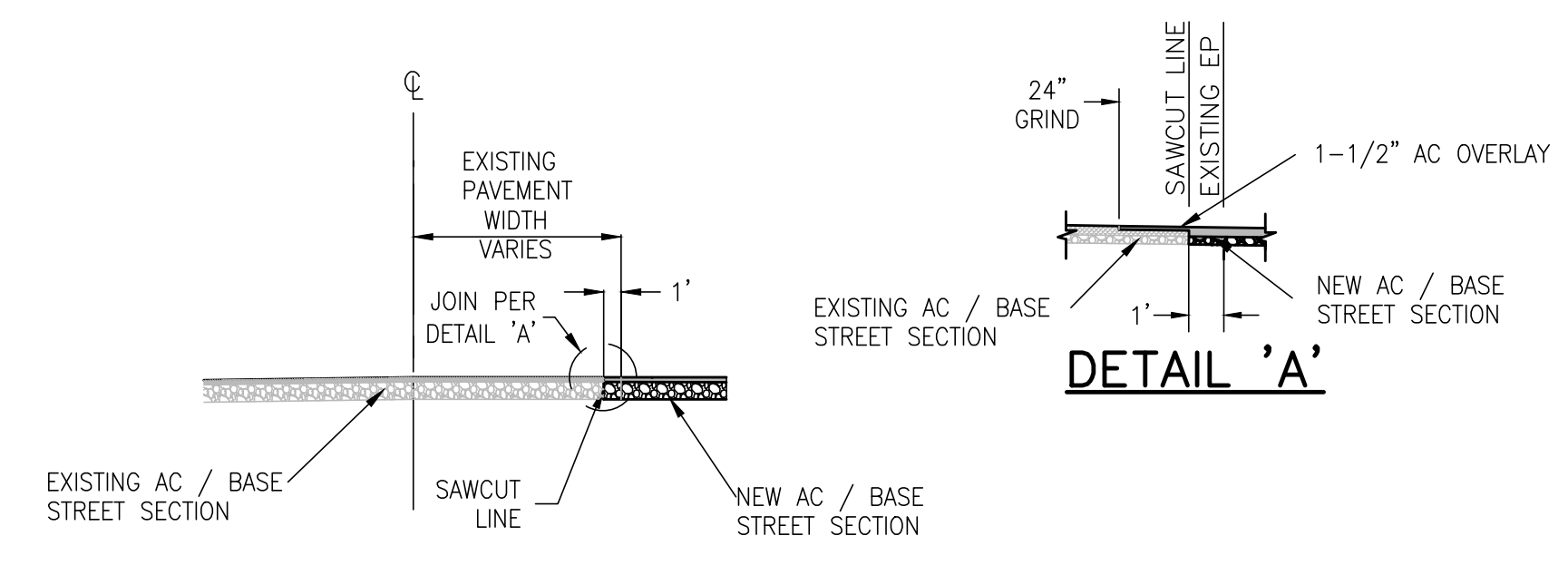


**2 0" FLAT BORDER CURB**  
NTS

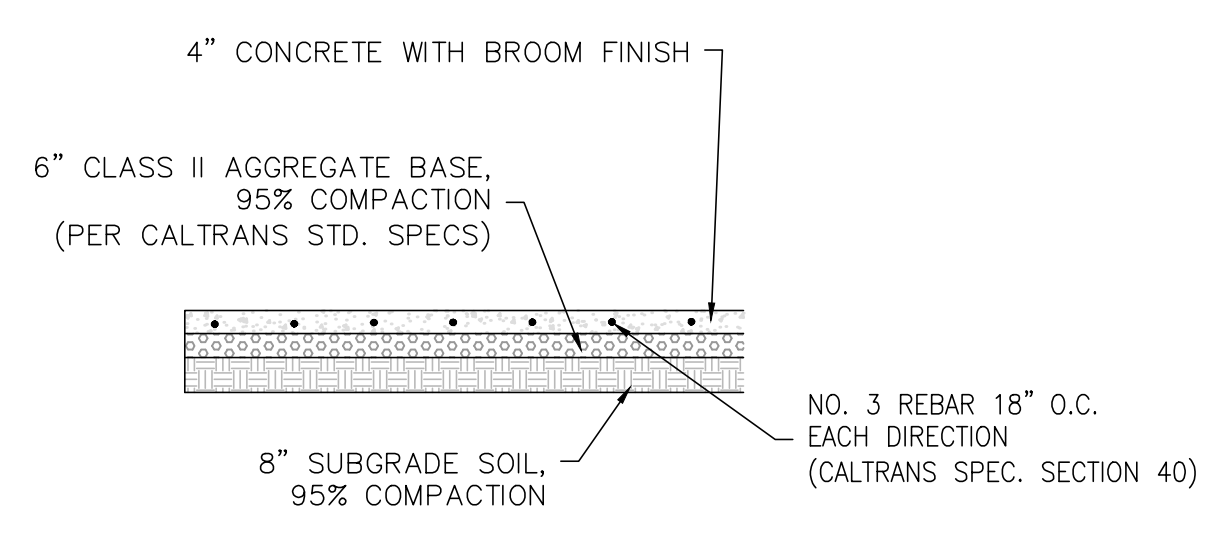


**3 EXPANSION JOINT DETAIL**  
NTS

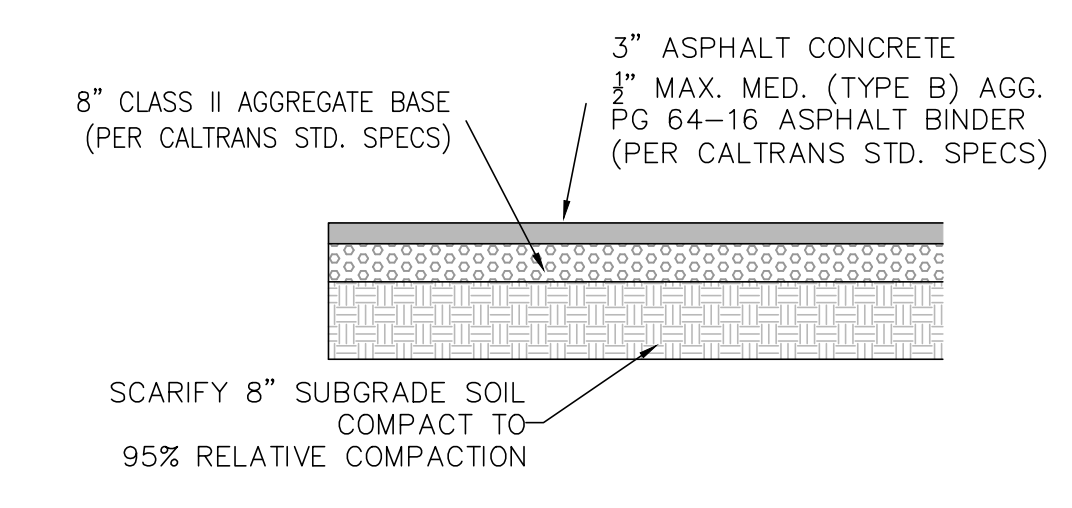
NOTE: EXPANSION JOINT SEALANT SHALL BE COLD-APPLIED SOF-SEAL, GARDOLX HORIZONTAL JOINT SEALANT, OR EQUAL.



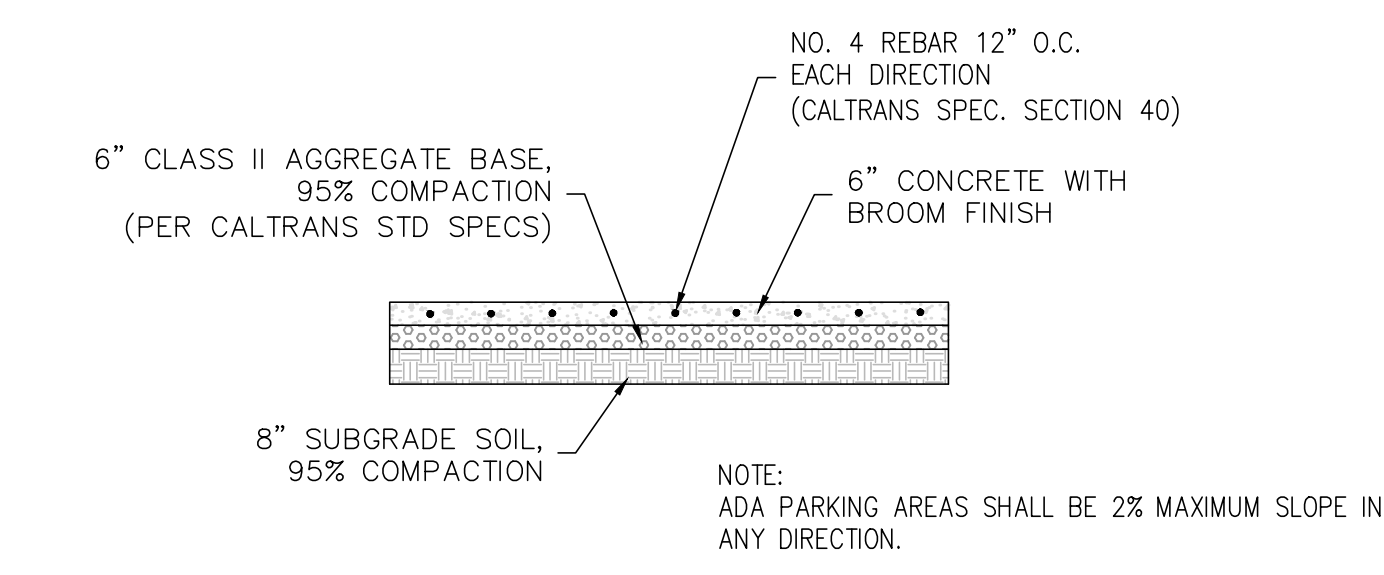
**4 JOIN EXISTING ASPHALT DETAIL**  
NTS



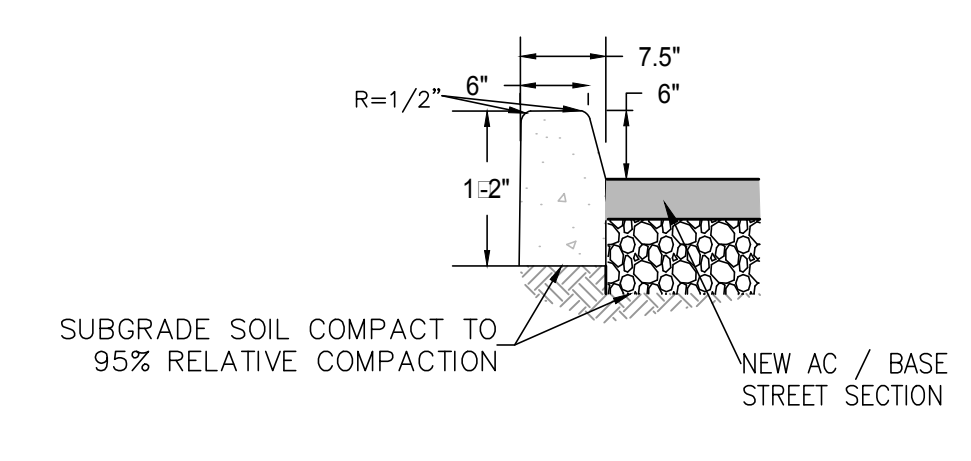
**5 TYPICAL SIDEWALK SECTION**  
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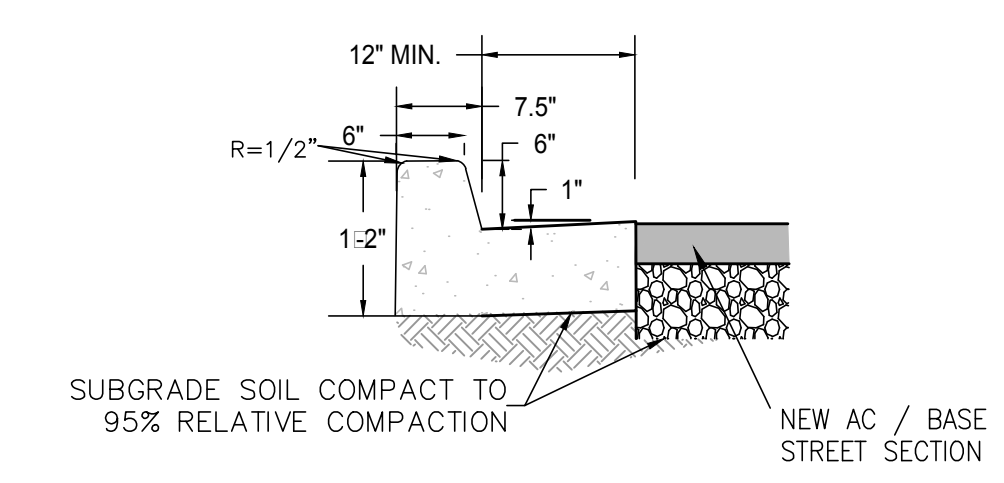
**6 TYPICAL PAVEMENT SECTION**  
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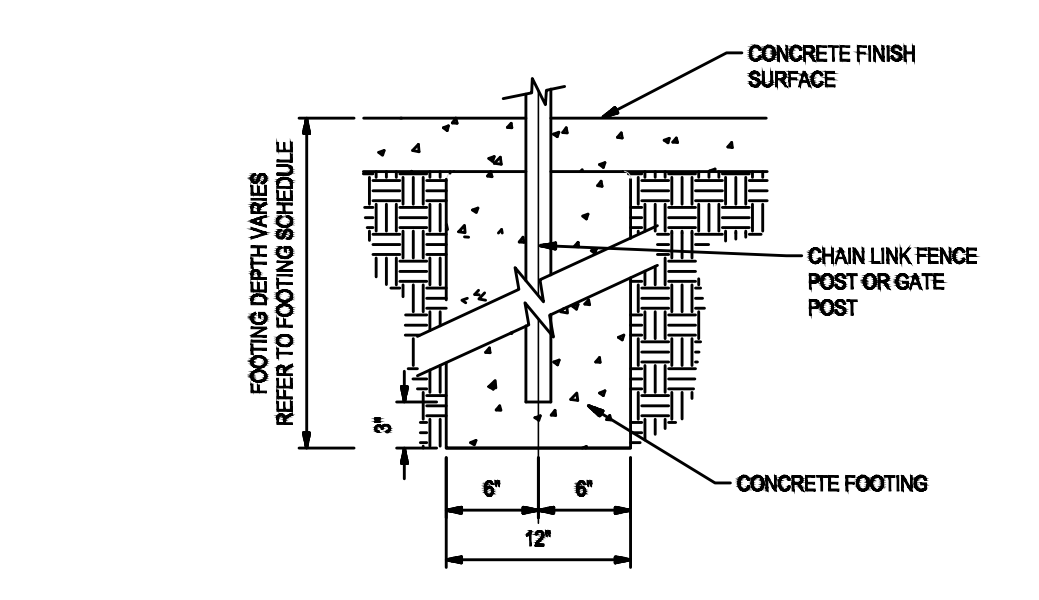
**7 CONCRETE PAVEMENT SECTION**  
NTS



**8 TYPE A1-6" CURB**  
NTS

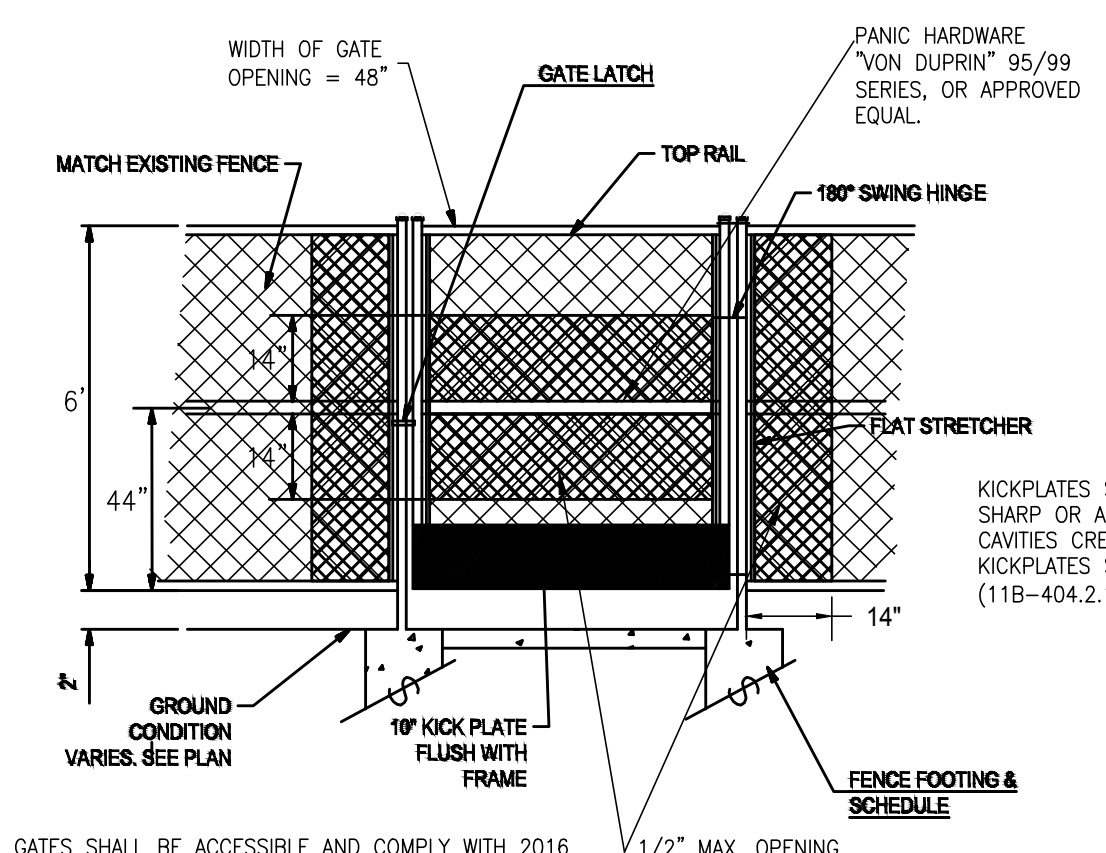


**9 MODIFIED TYPE A2-6" CURB AND GUTTER**  
NTS



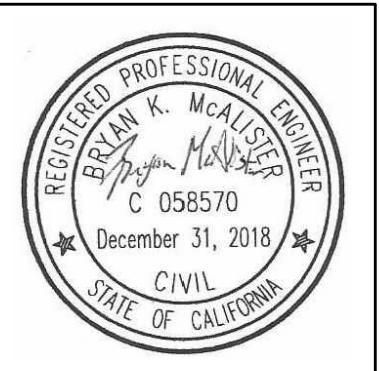
FENCE AND GATE FOOTING SCHEDULE				
DESCRIPTION	FENCE HEIGHT	LINE (STD TUBE STEEL)	CORNER/END (STD TUBE STEEL)	FOOTING
FENCE AND GATE TYPE I	4'-0"	2.5' OD	2.875' OD	12" DIA 3' DEEP
FENCE TYPE II	8'-0"	2.5' OD	2.875' OD	18" DIA 8' DEEP

**10 6' HIGH MANGATE**  
NTS



NOTES:  
1. GATES SHALL BE ACCESSIBLE AND COMPLY WITH 2016 CBC. INCLUDE REQUIREMENTS FOR MANEUVERING CLEARANCES, GROUND SURFACE/SLOPES, HARDWARE, CLOSING SPEED, OPENING FORCE, & GATE SURFACE.  
2. REFER TO SPECIFICATIONS  
3. KICK PLATE TO BE INSTALLED ON PUSH SIDE OF GATE

FILE NUMBER: 116957  
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DATE: 10/11/2018



Revisions

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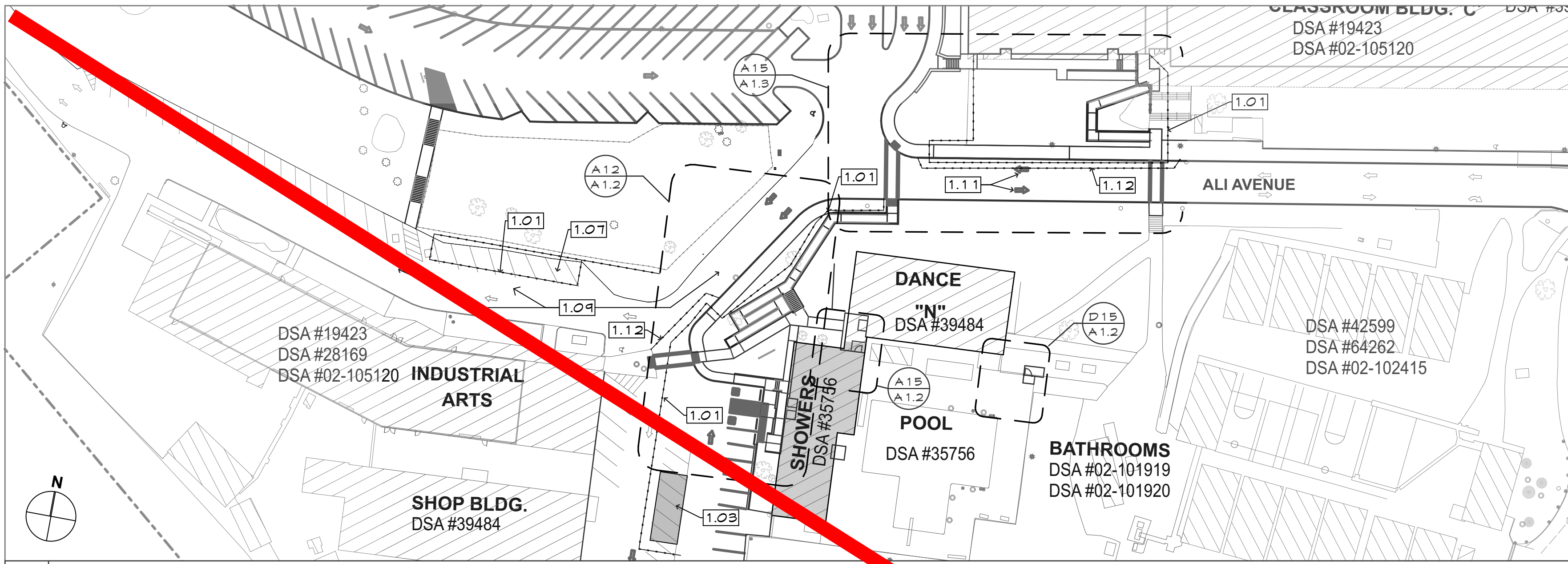
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530.569.1326  
SLS

POOL BUILDING RENOVATION  
for  
NJHSD  
NEVADA UNION HIGH SCHOOL, GRASS VALLEY, CA

DATE: 7/12/18  
SCALE: 1/8" = 1'-0"  
JOB #:

GENERAL DETAILS  
C4.6

15 14 13 12 11 10 9 8 7 6 5 4 3 2 1



115 PARTIAL SITE PLAN 1" = 50'

### KEY NOTES

- TEMP CONSTRUCTION FENCING
- TEMPORARY CONSTRUCTION FENCING - MAINTAIN 20'-0" FIRE ACCESS - 015000
- TEMP FIELD OFFICE
- CONTRACTOR'S TEMPORARY FIELD OFFICE
- CONTRACTOR STAGING AREA - 015000
- EXISTING DRIVEWAY
- EXISTING DRIVEWAY TO REMAIN OPEN DURING CONSTRUCTION
- TEMPORARILY MODIFY EXISTING CENTERLINE STRIPING AND DIRECTIONAL ARROWS ON ALI AVENUE DURING CONSTRUCTION
- PROVIDE 48" WIDE, FENCED PEDESTRIAN WALKWAY DURING CONSTRUCTION

### DSA LOCAL FIRE AUTHORITY REVIEW 810

To facilitate the Division of the State Architect's (DSA) approval of the Fire/Life Safety portion of a project, DSA requires Local Fire Authority (LFA) review of certain elements as identified in this form. Use of this form is mandatory for projects that add square footage to a campus or if any item on this form is relevant to the project. For additional information, see DSA 810 Instructions and DSA Policy 09-05.

**PROJECT INFORMATION**  
 School District/Owner: NEVADA JOINT UNION HIGH SCHOOL DISTRICT  
 Project Name/School: NEVADA UNION HIGH SCHOOL  
 Project Address: 11761 RIDGE RD., GRASS VALLEY, CA 95945

**LOCAL FIRE AUTHORITY (LFA)**  
 LFA Agency Name: NEVADA COUNTY CONSOLIDATED FIRE DISTRICT  
 LFA Reviewer Name: TERRY MCMAHAN  
 Work Email: TERRYMCMAHAN@NCCFIRE.COM  
 Work Telephone Number: (530) 265-4431  
 LFA Reviewer Title: FIRE MARSHAL

I have reviewed and responded to the applicable items for this project as indicated below.  
 Note: Only sign this form when it is stamped onto the site plan. A stamped form is not acceptable to DSA.

LFA Reviewer's Signature: *Terry McMah* Date: *7/30/18*

Review Key: "Y" = Complies with LFA requirements "N" = Not approved (complete Section 8)  
 "NA" = Not applicable to the project "NR" = LFA elects not to review

Item	Description	Y	N	NA	NR
1	Where an elevator does not meet medical emergency service cab size, per the California Building Code (CBC), the fire department connection and patient transport is acceptable.				X
2	Access roads, markings, pavers and gate entrances are in accordance with Title 19, California Code of Regulations and the California Fire Code, Chapter 5.				X
3	Fire hydrant location and distribution complies with the California Fire Code (or see 4).				X
4	Is the project located in a hazard severity zone area? (CBC, Chapter 7A, Section 701A) <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No				
5	Check type if "Yes": <input type="checkbox"/> High <input checked="" type="checkbox"/> Moderate <input type="checkbox"/> Very High <input type="checkbox"/> WFA (If one of these boxes is checked, the project design must meet the requirements of Chapter 7A.)				
6	The location(s) of the detector check valve assembly meet the requirements of this jurisdiction.				
7	The location(s) of the proposed post indicator valve and fire department connection meet the requirements of this jurisdiction.				
8	COMMENTS (note deficiencies):				

Signature of School District Official: \_\_\_\_\_ Date: \_\_\_\_\_  
 Print the School District Official's Name: \_\_\_\_\_

DSA 810 (rev 01-24-18) DIVISION OF THE STATE ARCHITECT DEPARTMENT OF GENERAL SERVICES STATE OF CALIFORNIA Page 1 of 1

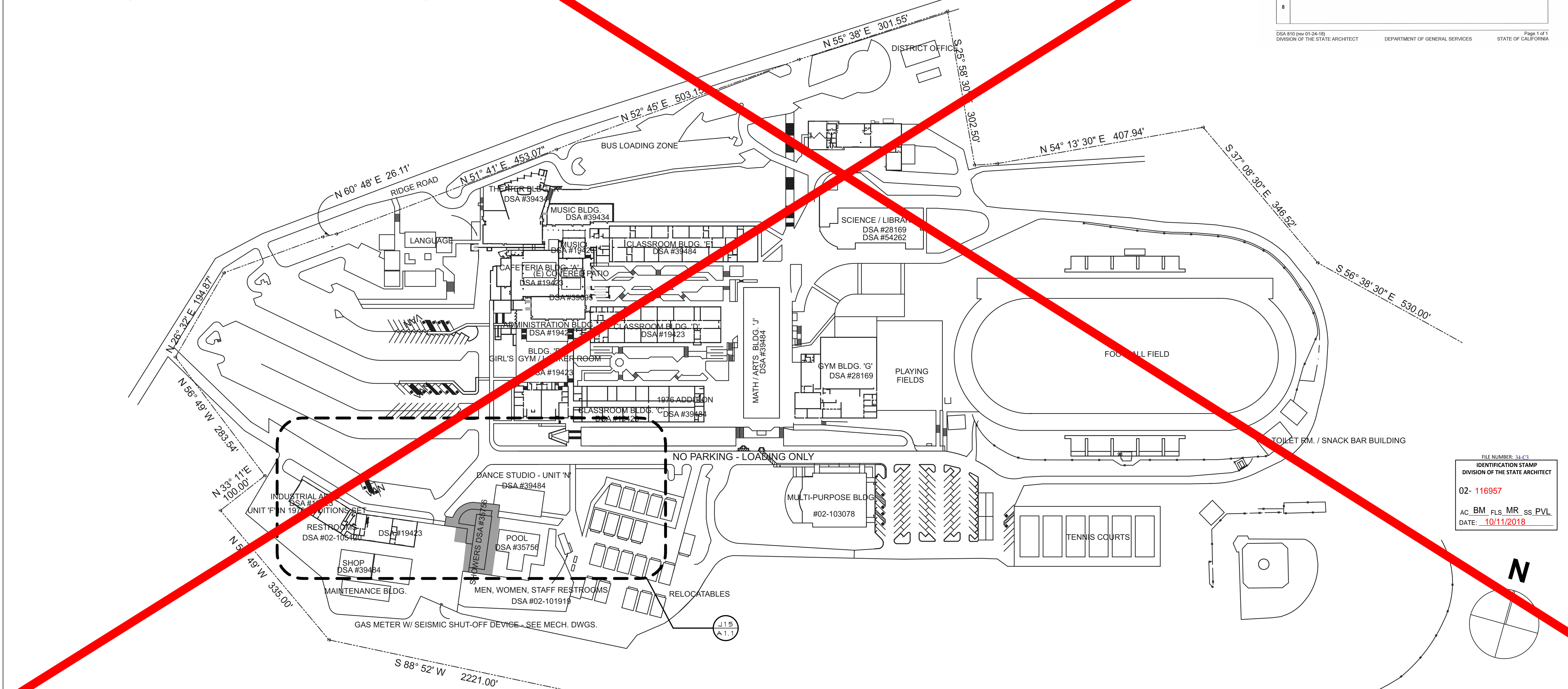


### Revisions

10/3/2018	PLAN CHECK
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 Andrew J. Pawonowicz, Architect, LEED AP  
 644 Zion Street  
 Nevada City CA 95959  
 530.478.9415 - f  
 530.478.9416 - t  
 www.sitelinearch.com



115 SITE PLAN 1" = 100'

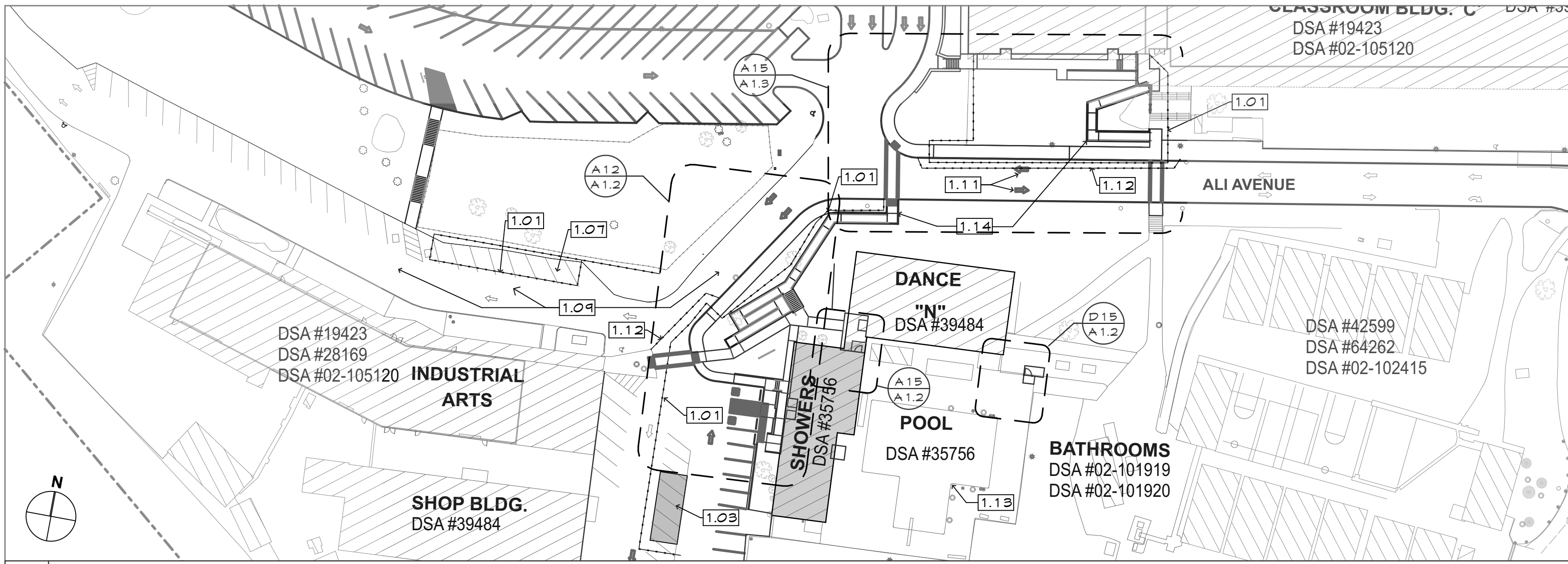
FILE NUMBER: 31-CJ  
 IDENTIFICATION STAMP  
 DIVISION OF THE STATE ARCHITECT  
 02-116957  
 AC BM FLS MR SS PVL  
 DATE: 10/11/2018

**POOL BUILDING RENOVATION**  
 for  
 NEVADA JOINT UNION HIGH SCHOOL DISTRICT  
 NEVADA UNION HIGH SCHOOL, GRASS VALLEY, CA

10/10/18  
 1" = 100'  
 17-429

ARCHITECTURAL SITE PLAN  
**A11**

15 14 13 12 11 10 9 8 7 6 5 4 3 2 1



115 PARTIAL SITE PLAN 1" = 50'

**KEY NOTES**

Notes

1.01 TEMPORARY CONSTRUCTION FENCING - MAINTAIN 20'-0" FIRE ACCESS - 015000

1.03 CONTRACTOR'S TEMPORARY FIELD OFFICE

1.07 CONTRACTOR STAGING AREA - 015000

1.09 EXISTING DRIVEWAY TO REMAIN OPEN DURING CONSTRUCTION

1.11 TEMPORARILY MODIFY EXISTING CENTERLINE STRIPING AND DIRECTIONAL ARROWS ON ALI AVENUE DURING CONSTRUCTION

1.12 PROVIDE 48" WIDE, FENCED PEDESTRIAN WALKWAY DURING CONSTRUCTION

1.13 POOL MAINTENANCE  
IT IS THE RESPONSIBILITY OF THE GENERAL CONTRACTOR THROUGHOUT THE ENTIRE COURSE OF CONSTRUCTION TO MAINTAIN THE CLEANLINESS AND PROPERLY BALANCED CHEMISTRY OF THE POOL IN ACCORDANCE WITH GENERALLY ACCEPTED PRACTICES FOR PUBLIC POOL MAINTENANCE AND TO THE SATISFACTION OF THE NEVADA COUNTY HEALTH DEPARTMENT AND THE DISTRICT

1.14 TARPING  
CONTRACTOR SHALL CLOSELY MONITOR EXPECTED WEATHER CONDITIONS AND IMPLEMENT MITIGATING MEASURES TO PREVENT OR MITIGATE DELAYS CAUSED BY INCLEMENT WEATHER AND TO RETURN THE PROJECT TO FULL PRODUCTION AS QUICKLY AS POSSIBLE. MITIGATING MEASURES FOR THIS PROJECT SHALL INCLUDE, BUT NOT BE LIMITED TO: PROVIDE PROTECTION MEASURES TO PREVENT DELAYS FROM SATURATION OF SOIL. THESE MEASURES SHALL INCLUDE PLACEMENT OF ANCHORED PLASTIC SHEETING TO COVER ACTIVE WORK AREAS AND RECENTLY COMPLETED WORK THAT CAN BE DAMAGED BY RAIN. CONSTRUCTING TEMPORARY EARTH BERMS AROUND EXCAVATIONS, AND CONSTRUCTING TEMPORARY SHALLOW SWALES TO CHANNEL RAIN WATER AWAY FROM WORK AREAS. REMOVE TARPING WHEN WEATHER FORECAST SUGGESTS AN OPPORTUNITY TO DO SO, TO ENCOURAGE DRYING OF SOILS. CONTRACTOR'S SUBMITTED SCHEDULE SHALL REFLECT ENGAGEMENT IN THIS AREA OF WORK AS EARLY IN THE CONSTRUCTION SCHEDULE AS IS PRACTICAL. SCHEDULE WORK ACTIVITIES TO ENSURE THAT MAJOR TASKS ARE COMPLETED AHEAD OF FORECASTED STORMS. RESCHEDULE TASKS IN ANTICIPATION OF INCLEMENT WEATHER BY MODIFYING WORKING TIMES, SHIFTING WORKING TIMES TO OUTSIDE THE COMMON MONDAY - FRIDAY SCHEDULE, OR WORKING IN SMALLER SECTIONS. SCHEDULE THE WORK TO ENSURE WEATHER-DEPENDENT ACTIVITIES ARE PLANNED FOR TIMES WHEN BETTER WEATHER IS FORECASTED.

**DSA 810**

**LOCAL FIRE AUTHORITY REVIEW**

To facilitate the Division of the State Architect's (DSA) approval of the Fire/Life Safety portion of a project, DSA requires Local Fire Authority (LFA) review of certain elements as identified in this form. Use of this form is mandatory for projects that add square footage to a campus or if any item on this form is relevant to the project. For additional information, see DSA 810 Instructions and DSA Policy 09-05.

**PROJECT INFORMATION**

School District/Owner: NEVADA JOINT UNION HIGH SCHOOL DISTRICT  
 Project Name/School: NEVADA JOINT UNION HIGH SCHOOL  
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LFA Agency Name: NEVADA COUNTY CONSOLIDATED FIRE DISTRICT  
 LFA Agency Name: TERRY MCMAHAN Title: FIRE MARSHAL  
 Work Email: TERRYMCMAHAN@NCCFIRE.COM Work Telephone Number: (530) 265-4431  
 I have reviewed and responded to the applicable items for this project as listed below.  
 Note: Only sign this form when it is stamped onto the site plan. A loose form is not acceptable to DSA.

LFA Reviewer's Signature: \_\_\_\_\_ Date: 7/30/18

Review Key: "Y" = Complies with LFA requirements "N" = Not approved (complete Section 8)  
 "NA" = Not applicable to the project "NR" = LFA elects not to review

Description	Y	N	NA	NR
1 Where an elevator does not meet medical emergency service cab size, per the California Building Code (CBC), use of stairways for emergency rescue and patient transport is acceptable.			X	
2 Access roads, fire lane markings, pavers and gate entrances are in accordance with Title 19, California Code of Regulations and the California Fire Code, Chapter 5.			X	
3 Fire hydrant location and distribution complies with NFPA 1142, "Alternate Means." If "NR" is checked, DSA can only approve on-site water storage as an alternate. The signature of the school district official is required to acknowledge the use of alternate means.			X	
4 Signature of School District Official: _____ Date: _____				
5 Print the School District Official's Name: _____				
6 The location(s) of the proposed post indicator valve and fire department connection meet the requirements of this jurisdiction.				
7 The location(s) of the detector check valve assembly meet the requirements of this jurisdiction.				
8 Is the project located in a hazard severity zone area? (CBC, Chapter 7A, Section 701A) <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No Check type if "Yes": <input type="checkbox"/> High <input checked="" type="checkbox"/> Moderate <input type="checkbox"/> Very High <input type="checkbox"/> WIFA (If one of these boxes is checked, the project design must meet the requirements of Chapter 7A.)				
COMMENTS (note deficiencies):				

DSA 810 (rev 01-24-18) DIVISION OF THE STATE ARCHITECT DEPARTMENT OF GENERAL SERVICES STATE OF CALIFORNIA Page 1 of 1

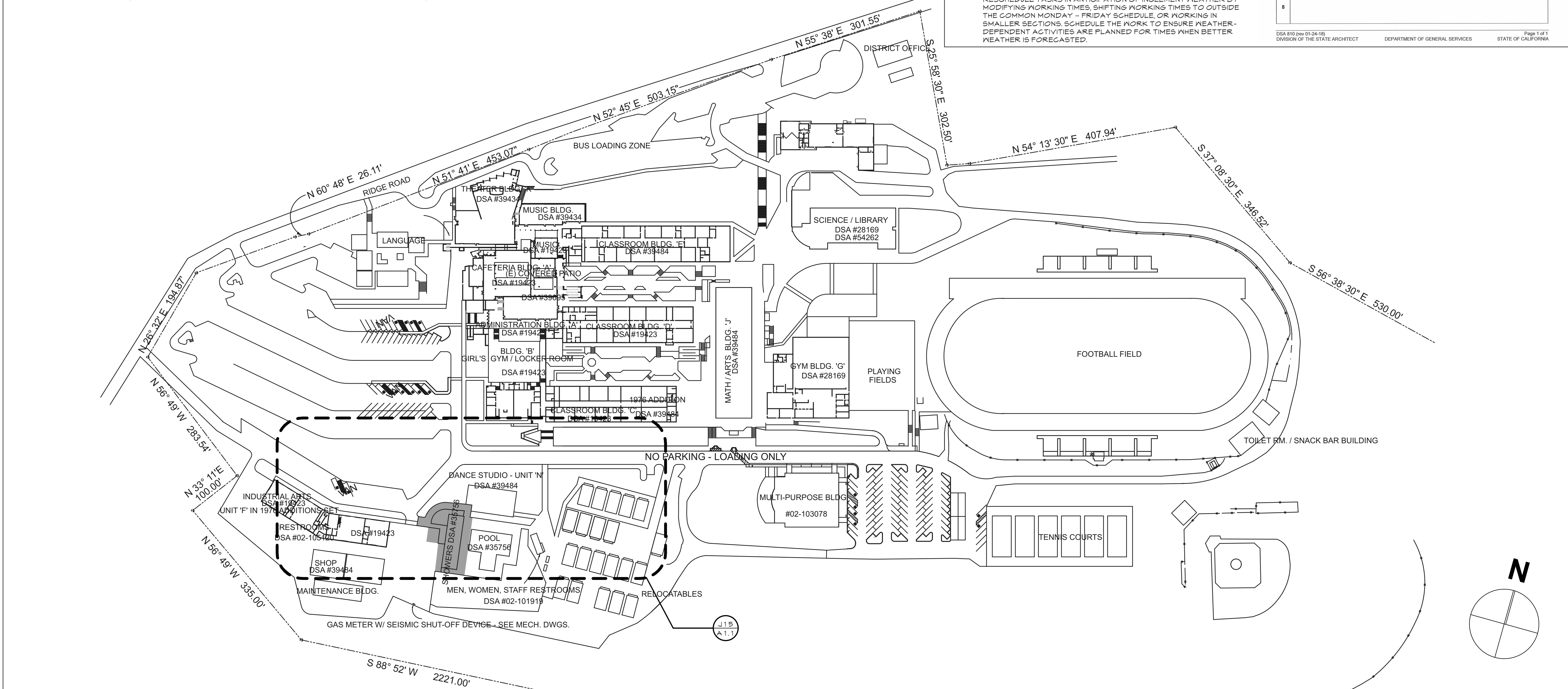


**Revisions**

10/3/2018 PLAN CHECK  
 10/13/2018 BID DISTRIBUTION

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A15 SITE PLAN 1" = 100'

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 Andrew J. Pawonowski, Architect, LEED AP

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 530.478.9416 - f  
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 www.sitalinearch.com

**POOL BUILDING RENOVATION**

for

**NEVADA JOINT UNION HIGH SCHOOL DISTRICT**  
 NEVADA JOINT UNION HIGH SCHOOL, GRASS VALLEY, CA

10/15/18  
 1" = 100'  
 17-429

ARCHITECTURAL  
 SITE PLAN

**A 1.1**

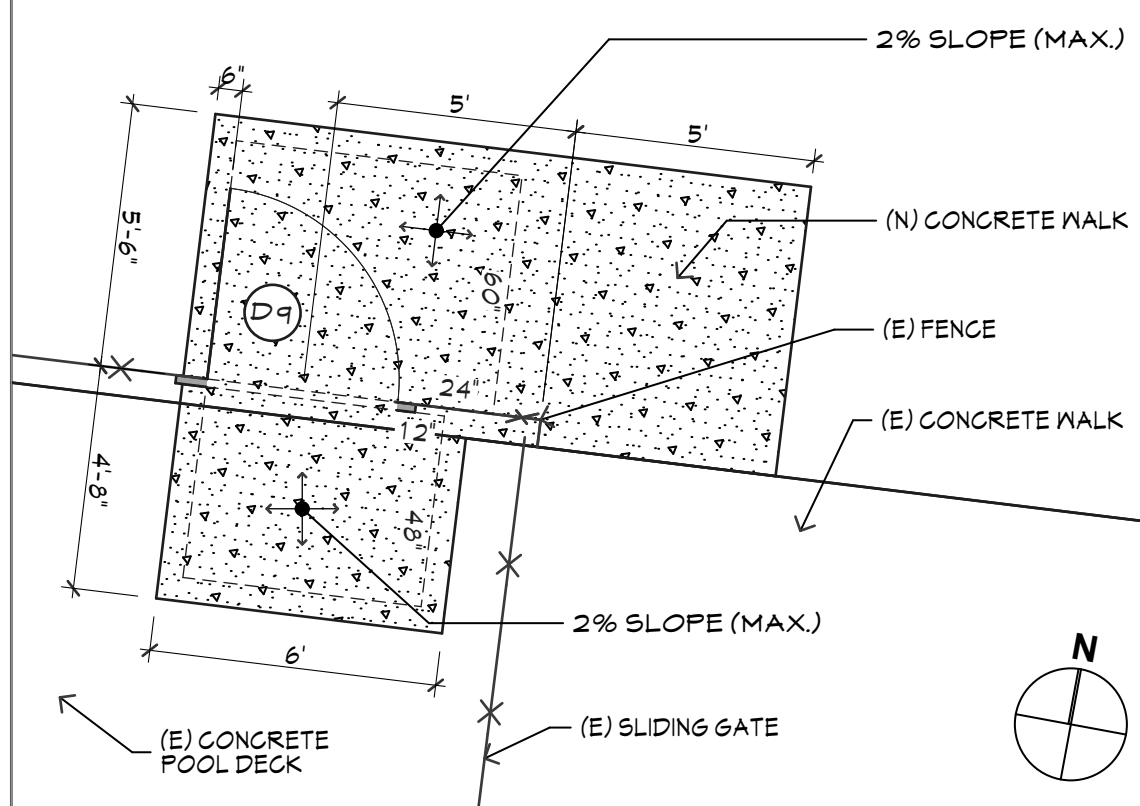
KEY NOTES

- 1.10 ALL EXISTING LANDSCAPING, IRRIGATION, AND OTHER IMPROVEMENTS SHALL BE PROTECTED FROM ANY AND ALL CONSTRUCTION IMPACTS. CONTRACTOR IS RESPONSIBLE FOR IRRIGATION OF PLANTINGS AS SEASONALLY REQUIRED BY USE OF EITHER TEMPORARY OR PERMANENT IRRIGATION SYSTEMS
- 05.11 SKATEBOARD DETERRENT  
3/8" O.D. FASTEN PER MFR. REQUIREMENTS, TYPICAL AT ALL CONCRETE WALLS -
- 05.12 HANDRAIL  
SEE STAIR NOTES ON THIS SHEET - 055000
- 05.13 STAIR NOSING  
- 055113
- 05.14 GUARDRAIL WITH ATTACHED HANDRAIL - 05 50 00
- 05.15 GUARDRAIL - 05 50 00
- 10.04 ISA SIGN  
- 101400
- 11.06 VENDING MACHINE (BY OWNER)
- 32.1 CONCRETE STAIR  
- 321313
- 32.2 CONCRETE LANDING  
- SLOPE TO MATCH (E) GRADES AND PROVIDE POSITIVE DRAINAGE AWAY FROM BUILDINGS OR IMPROVEMENTS. STAIR LANDINGS, TOP OF CURB RAMP AND CONCRETE WALK INTERSECTION SHALL HAVE 1:4:8 MAX. SLOPE IN ANY DIRECTION. BOTTOM LANDING INTERSECTING WALK SHALL HAVE 1:4:8 MAX. SLOPE IN ANY DIRECTION. 32 13 13
- 32.4 CONCRETE WALL  
- FINISHES TO MATCH ALONG LENGTH OF ENTIRE WALL, FINISH TO ACHIEVE AS SMOOTH A FINISH AS POSSIBLE, ROUNDED TOP EDGE, NO HEAVY BROOM FINISH. FINISH EXTENDS FROM TOP OF FOOTINGS UPWARD ON ALL SECTIONS OF WALL, REGARDLESS OF LOCATION ON SITE. WALL JOINTS 10'-0" MAX. SPACING PLUS AT EACH CORNER, 6' MIN FROM CORNERS. ADJUST SPACING TO MAKE DISTANCES BETWEEN JOINTS EQUAL (BUT LESS THAN 10'-0"). ADJUST SPACING OF SIDEWALK JOINTS TO ALIGN WITH WALL JOINTS WHILE NOT EXCEEDING MAXIMUM SPACING OF SIDEWALK JOINTS. - 32 13 13
- 32.6 CONCRETE WALKWAY  
- PROVIDE NEW CONCRETE WALKWAY, SLOPE TO MATCH (E) GRADES AND PROVIDE POSITIVE DRAINAGE AWAY FROM BUILDINGS OR IMPROVEMENTS. PROVIDE 5% MAX SLOPE (IN DIRECTION OF TRAVEL), 2% MAX. CROSS SLOPE. - 32 13 13
- 32.7 CONCRETE CURB RAMP; GRADE BREAK SHALL BE PERPENDICULAR TO DIRECTION OF RAMP RUN (CBC 11B-406.5.6)  
- 32 13 13
- 32.4 DETECTABLE WARNING, 3/8" MIN. IN DIRECTION OF TRAVEL, FULL WIDTH LESS 2" MAX EACH SIDE, 6' MIN - 8" MAX FROM FACE OF CURB  
- 32 13 13
- 32.10 CONCRETE RAMP - 32 13 13

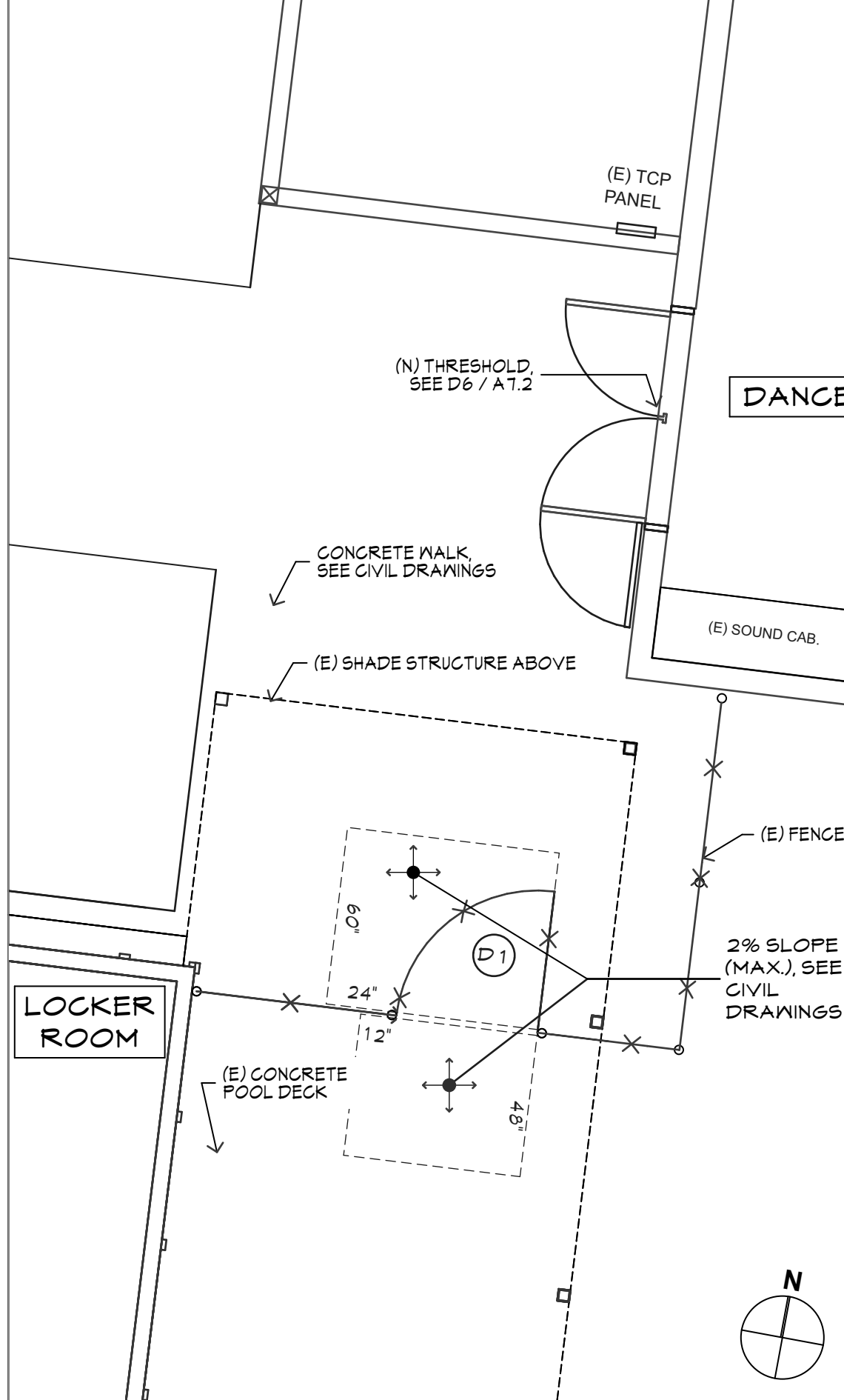
STAIR NOTES

- CBC 11B-504.2 TREADS AND RISERS.  
ALL STEPS ON A FLIGHT OF STAIRS SHALL HAVE UNIFORM RISER HEIGHTS AND UNIFORM TREAD DEPTHS. RISERS SHALL BE 4 INCHES (102 MM) HIGH MINIMUM AND TREADS (178 MM) HIGH MAXIMUM. TREADS SHALL BE 11 INCHES (279 MM) DEEP MINIMUM.
- 11B-504.4 TREAD SURFACE.  
STAIR TREADS SHALL COMPLY WITH SECTION 11B-502. CHANGES IN LEVEL ARE NOT PERMITTED.  
EXCEPTION: TREADS SHALL BE PERMITTED TO HAVE A SLOPE NOT STEEPER THAN 1:4:8.
- 11B-504.4.1 CONTRASTING STRIPE  
EXTERIOR STAIRS SHALL HAVE THE UPPER APPROACH AND ALL TREADS MARKED BY A STRIPE PROVIDING CLEAR VISUAL CONTRAST. THE STRIPE SHALL BE A MINIMUM OF 2 INCHES (51 MM) WIDE TO A MAXIMUM OF 4 INCHES (102 MM) WIDE PLACED PARALLEL TO, AND NOT MORE THAN 1 INCH (25 MM) FROM, THE NOSE OF THE STEP OR UPPER APPROACH. THE STRIPE SHALL EXTEND THE FULL WIDTH OF THE STEP OR UPPER APPROACH AND SHALL BE OF MATERIAL THAT IS AT LEAST AS SLIP RESISTANT AS THE OTHER TREADS OF THE STAIR. A PAINTED STRIPE SHALL BE ACCEPTABLE. GROOVES SHALL NOT BE USED TO SATISFY THIS REQUIREMENT.
- 11B-504.5 NOSINGS.  
THE RADIUS OF CURVATURE AT THE LEADING EDGE OF THE TREAD SHALL BE 1/2 INCH (12.7 MM) MAXIMUM. NOSINGS THAT PROJECT BEYOND RISERS SHALL HAVE THE UNDERSIDE OF THE LEADING EDGE CURVED OR BEVELED. RISERS SHALL BE PERMITTED TO SLOPE UNDER THE TREAD AT AN ANGLE OF 30 DEGREES MAXIMUM FROM VERTICAL. THE PERMITTED PROJECTION OF THE NOSING SHALL EXTEND 1 1/4 INCHES (32 MM) MAXIMUM OVER THE TREAD BELOW. EXCEPTION: IN EXISTING BUILDINGS THERE IS NO REQUIREMENT TO RETROACTIVELY ALTER EXISTING NOSING PROJECTIONS OF 1 1/2 INCHES (38 MM) WHICH WERE CONSTRUCTED IN COMPLIANCE WITH THE BUILDING CODE IN EFFECT AT THE TIME OF ORIGINAL CONSTRUCTION.
- 11B-504.6 HANDRAILS.  
STAIRS SHALL HAVE HANDRAILS COMPLYING WITH SECTION 11B-505.
- 11B-504.7 WET CONDITIONS.  
STAIR TREADS AND LANDINGS SUBJECT TO WET CONDITIONS SHALL BE DESIGNED TO PREVENT THE ACCUMULATION OF WATER.
- 11B-505.1 GENERAL HANDRAILS.  
HANDRAILS PROVIDED ALONG WALKING SURFACES COMPLYING WITH SECTION 11B-403, REQUIRED AT RAMPS COMPLYING WITH SECTION 11B-405, AND REQUIRED AT STAIRS COMPLYING WITH SECTION 11B-504 SHALL COMPLY WITH SECTION 11B-505.
- 11B-505.2 HANDRAILS WHERE REQUIRED.  
HANDRAILS SHALL BE PROVIDED ON BOTH SIDES OF STAIRS AND RAMPS.  
EXCEPTIONS:  
1. CURB RAMPS DO NOT REQUIRE HANDRAILS.  
2. AT 20 DEGREE LANDINGS, HANDRAILS ARE NOT REQUIRED WHEN THE RAMP RUN IS LESS THAN 6 INCHES (152 MM) IN RISE OR 72 INCHES (1829 MM) IN LENGTH.
- 11B-505.2.1 ORIENTATION.  
THE ORIENTATION OF AT LEAST ONE HANDRAIL SHALL BE IN THE DIRECTION OF THE STAIR RUN, PERPENDICULAR TO THE DIRECTION OF THE STAIR NOSING, AND SHALL NOT REDUCE THE MINIMUM REQUIRED WIDTH OF THE STAIR.
- 11B-505.3 CONTINUITY.  
HANDRAILS SHALL BE CONTINUOUS WITHIN THE FULL LENGTH OF EACH STAIR FLIGHT OR RAMP RUN. INSIDE HANDRAILS ON SWITCHBACK OR DOGLEG STAIRS AND RAMPS SHALL BE CONTINUOUS BETWEEN FLIGHTS OR RUNS.
- 11B-505.4 HEIGHT.  
TOP OF GRIPPING SURFACES OF HANDRAILS SHALL BE 34 INCHES (864 MM) MINIMUM AND 38 INCHES (965 MM) MAXIMUM VERTICALLY ABOVE WALKING SURFACES, STAIR NOSINGS, AND RAMP SURFACES. HANDRAILS SHALL BE AT A CONSISTENT HEIGHT ABOVE WALKING SURFACES, STAIR NOSINGS, AND RAMP SURFACES.
- 11B-505.5 CLEARANCE.  
CLEARANCE BETWEEN HANDRAIL GRIPPING SURFACES AND ADJACENT SURFACES SHALL BE 1 1/2 INCHES (38 MM) MINIMUM. HANDRAILS MAY BE LOCATED IN A RECESS IF THE RECESS IS 3 INCHES (76 MM) MAXIMUM DEEP AND 18 INCHES (457 MM) MINIMUM CLEAR ABOVE THE TOP OF THE HANDRAIL.
- 11B-505.6 GRIPPING SURFACE.  
HANDRAIL GRIPPING SURFACES SHALL BE CONTINUOUS ALONG THEIR LENGTH AND SHALL NOT BE OBSTRUCTED ALONG THEIR TOPS OR SIDES. THE BOTTOMS OF HANDRAIL GRIPPING SURFACES SHALL NOT BE OBSTRUCTED FOR MORE THAN 20 PERCENT OF THEIR LENGTH. WHERE PROVIDED, HORIZONTAL PROJECTIONS SHALL OCCUR 1 1/2 INCHES (38 MM) MINIMUM BELOW THE BOTTOM OF THE HANDRAIL GRIPPING SURFACE.  
EXCEPTIONS:  
1. WHERE HANDRAILS ARE PROVIDED ALONG WALKING SURFACES WITH SLOPES NOT STEEPER THAN 1:2:0, THE BOTTOMS OF HANDRAIL GRIPPING SURFACES SHALL BE PERMITTED TO BE OBSTRUCTED ALONG THEIR ENTIRE LENGTH WHERE THEY ARE INTEGRAL TO CRASH RAILS OR BUMPER GUARDS.  
2. THE DISTANCE BETWEEN HORIZONTAL PROJECTIONS AND THE BOTTOM OF THE GRIPPING SURFACE SHALL BE PERMITTED TO BE REDUCED BY 1/8 INCH (3.2 MM) FOR EACH 1/2 INCH (12.7 MM) OF ADDITIONAL HANDRAIL PERIMETER DIMENSION THAT EXCEEDS 4 INCHES (102 MM).
- 11B-505.7.1 CIRCULAR CROSS SECTION.  
HANDRAIL GRIPPING SURFACES WITH A CIRCULAR CROSS SECTION SHALL HAVE AN OUTSIDE DIAMETER OF 1 1/4 INCHES (32 MM) MINIMUM AND 2 INCHES (51 MM) MAXIMUM.
- 11B-505.8 SURFACES.  
HANDRAIL GRIPPING SURFACES AND ANY SURFACES ADJACENT TO THEM SHALL BE FREE OF SHARP OR ABRASIVE ELEMENTS AND SHALL HAVE ROUNDED EDGES.
- 11B-505.9 FITTINGS.  
HANDRAILS SHALL NOT ROTATE WITHIN THEIR FITTINGS.
- 11B-505.10 HANDRAIL EXTENSIONS.  
HANDRAIL GRIPPING SURFACES SHALL EXTEND BEYOND AND IN THE SAME DIRECTION OF STAIR FLIGHTS AND RAMP RUNS IN ACCORDANCE WITH SECTION 11B-505.10.  
EXCEPTIONS:  
1. EXTENSIONS SHALL NOT BE REQUIRED FOR CONTINUOUS HANDRAILS AT THE INSIDE TURN OF SWITCHBACK OR DOGLEG STAIRS AND RAMPS.  
2. IN ASSEMBLY AREAS, EXTENSIONS SHALL NOT BE REQUIRED FOR RAMP HANDRAILS IN AISLES SERVING SEATING WHERE THE HANDRAILS ARE DISCONTINUOUS TO PROVIDE ACCESS TO SEATING AND TO PERMIT CROSSOVERS WITHIN AISLES.  
3. IN ALTERATIONS, WHERE THE EXTENSION OF THE HANDRAIL IN THE DIRECTION OF STAIR FLIGHT OR RAMP RUN WOULD CREATE A HAZARD, THE EXTENSION OF THE HANDRAIL MAY BE TURNED 90 DEGREES FROM THE DIRECTION OF STAIR FLIGHT OR RAMP RUN.
- 11B-505.10.1 TOP AND BOTTOM EXTENSION AT RAMPS.  
RAMP HANDRAILS SHALL EXTEND HORIZONTALLY ABOVE THE LANDING FOR 12 INCHES (305 MM) MINIMUM BEYOND THE TOP AND BOTTOM OF RAMP RUNS. EXTENSIONS SHALL RETURN TO A WALL, GUARD, OR THE LANDING SURFACE, OR SHALL BE CONTINUOUS TO THE HANDRAIL OF AN ADJACENT RAMP RUN.
- 11B-505.10.2 TOP EXTENSION AT STAIRS.  
AT THE TOP OF A STAIR FLIGHT, HANDRAILS SHALL EXTEND HORIZONTALLY ABOVE THE LANDING FOR 12 INCHES (305 MM) MINIMUM BEGINNING DIRECTLY ABOVE THE FIRST RISER NOSING. EXTENSIONS SHALL RETURN TO A WALL, GUARD, OR THE LANDING SURFACE, OR SHALL BE CONTINUOUS TO THE HANDRAIL OF AN ADJACENT STAIR FLIGHT.
- 11B-505.10.3 BOTTOM EXTENSION AT STAIRS.  
AT THE BOTTOM OF A STAIR FLIGHT, HANDRAILS SHALL EXTEND AT THE SLOPE OF THE STAIR FLIGHT FOR A HORIZONTAL DISTANCE EQUAL TO ONE TREAD DEPTH BEYOND THE LAST RISER NOSING. THE HORIZONTAL EXTENSION OF A HANDRAIL SHALL BE 12 INCHES (305 MM) LONG MINIMUM AND A HEIGHT EQUAL TO THAT OF THE SLOPING PORTION OF THE HANDRAIL, AS MEASURED ABOVE THE STAIR NOSINGS. EXTENSION SHALL RETURN TO A WALL, GUARD, OR THE LANDING SURFACE, OR SHALL BE CONTINUOUS TO THE HANDRAIL OF AN ADJACENT STAIR FLIGHT.

SEE SHEET A 1.3 FOR CONTINUATION



D 15 PARTIAL SITE PLAN 1/4" = 1'-0"



A 15 PARTIAL SITE PLAN 1/4" = 1'-0"

A 12 PARTIAL SITE PLAN

FILE NUMBER: 24-CT  
IDENTIFICATION STAMP  
DIVISION OF THE STATE ARCHITECT  
02-116957  
AC BM FLs MR ss PVL  
DATE: 10/11/2018



Revisions

10/3/2018	PLAN CHECK
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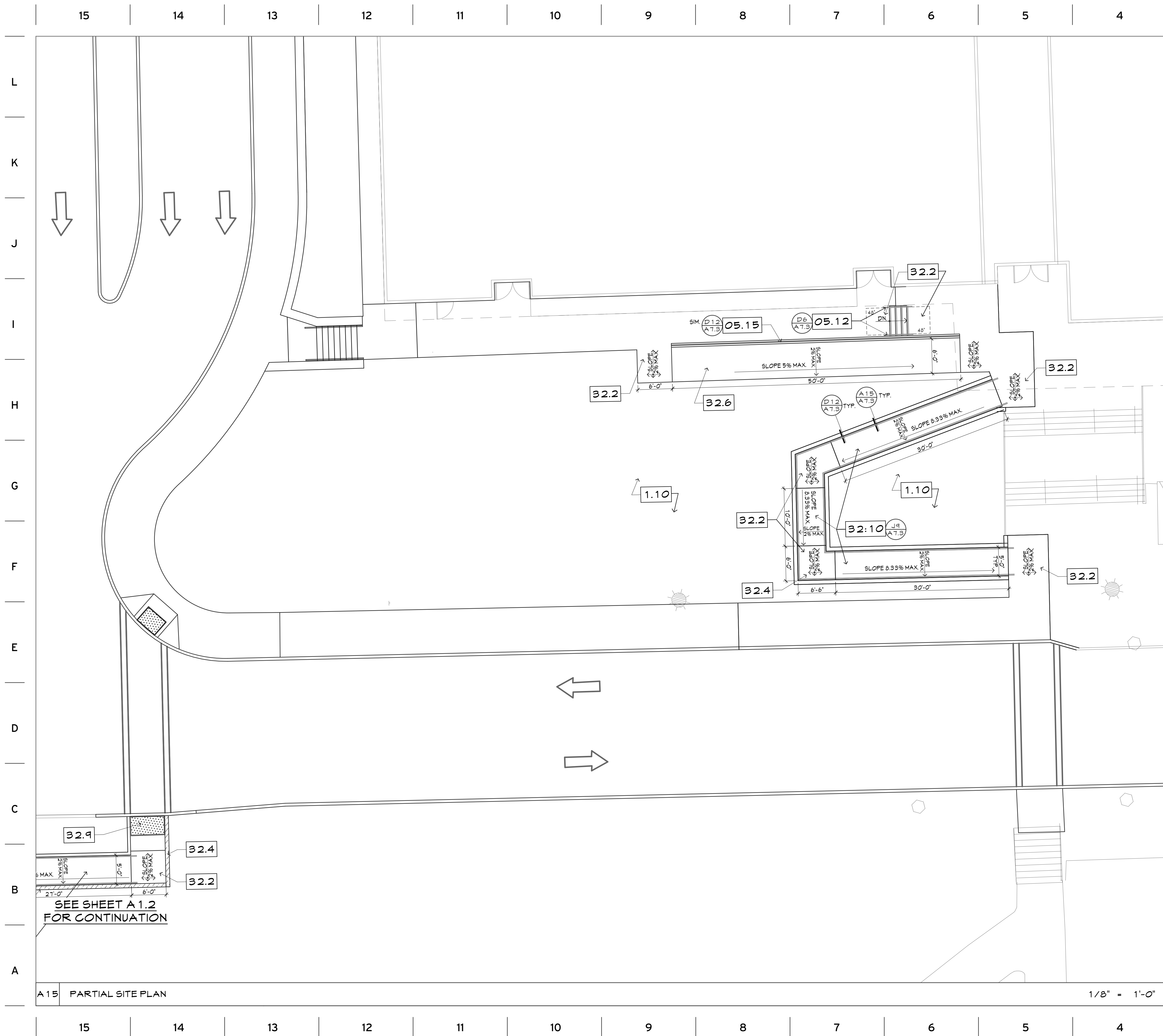
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POOL BUILDING RENOVATION  
for  
NEVADA JOINT UNION HIGH SCHOOL DISTRICT  
NEVADA JOINT UNION HIGH SCHOOL, GRASS VALLEY, CA

10/10/18  
17-429

PARTIAL SITE PLAN  
A 1.2



**KEY NOTES**

- 1.10 ALL EXISTING LANDSCAPING, IRRIGATION, AND OTHER IMPROVEMENTS SHALL BE PROTECTED FROM ANY AND ALL CONSTRUCTION IMPACTS. CONTRACTOR IS RESPONSIBLE FOR IRRIGATION OF PLANTINGS AS SEASONALLY REQUIRED BY USE OF EITHER TEMPORARY OR PERMANENT IRRIGATION SYSTEMS
- 05.12 HANDRAIL  
SEE STAIR NOTES ON THIS SHEET - 055000
- 05.15 GUARDRAIL - 05 50 00
- 32.2 CONCRETE LANDING  
- SLOPE TO MATCH (E) GRADES AND PROVIDE POSITIVE DRAINAGE AWAY FROM BUILDINGS OR IMPROVEMENTS. STAIR LANDING, TOP OF CURB RAMP AND CONCRETE WALK INTERSECTION SHALL HAVE 1:48 MAX. SLOPE IN ANY DIRECTION. BOTTOM LANDING INTERSECTING WALK SHALL HAVE 1:48 MAX. SLOPE IN ANY DIRECTION. 32 13 13
- 32.4 CONCRETE WALL  
- FINISHES TO MATCH ALONG LENGTH OF ENTIRE WALL, FINISH TO ACHIEVE AS SMOOTH A FINISH AS POSSIBLE, ROUNDED TOP EDGE, NO HEAVY BROOM FINISH, FINISH EXTENDS FROM TOP OF FOOTING UPWARD ON ALL SECTIONS OF WALL, REGARDLESS OF LOCATION ON SITE. WALL JOINTS 10'-0" MAX SPACING PLUS AT EACH CORNER, 6" MIN. FROM CORNERS. ADJUST SPACING TO MAKE DISTANCES BETWEEN JOINTS EQUAL (BUT LESS THAN 10'-0"). ADJUST SPACING OF SIDEWALK JOINTS TO ALIGN WITH WALL JOINTS WHILE NOT EXCEEDING MAXIMUM SPACING OF SIDEWALK JOINTS. - 32 13 13
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- PROVIDE NEW CONCRETE WALKWAY, SLOPE TO MATCH (E) GRADES AND PROVIDE POSITIVE DRAINAGE AWAY FROM BUILDINGS OR IMPROVEMENTS. PROVIDE 5% MAX SLOPE (IN DIRECTION OF TRAVEL), 2% MAX. CROSS SLOPE - 32 13 13
- 32.9 DETECTABLE WARNING, 36" MIN. IN DIRECTION OF TRAVEL, FULL WIDTH LESS 2" MAX. EACH SIDE, 6" MIN. - 8" MAX. FROM FACE OF CURB
- 32.10 CONCRETE RAMP - 32 13 13



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**POOL BUILDING RENOVATION**  
for  
**NEVADA JOINT UNION HIGH SCHOOL DISTRICT**  
NEVADA JOINT UNION HIGH SCHOOL, GRASS VALLEY, CA

DATE	10/10/18
NO.	17-429

PARTIAL SITE PLAN  
**A 1.3**

FILE NUMBER: 18-001  
IDENTIFICATION STAMP  
DIVISION OF THE STATE ARCHITECT  
02- 116957  
AC, BM, FLS, MR, SS, PVL  
DATE: 10/11/2018

A 15 PARTIAL SITE PLAN

1/8" = 1'-0"

15 14 13 12 11 10 9 8 7 6 5 4 3 2 1

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KEYNOTES

- 2.01 SANDBLAST EXISTING FLOOR FLOOR PAINT FINISHES FROM CHECK ROOM, LOCKER ROOMS - 02 54 19, 09 67 00
- 2.02 SALVAGE EXISTING PARTITION SYSTEMS INCLUDING MOUNTING HARDWARE, DELIVER TO DISTRICT REPRESENTATIVE - 02 41 19
- 2.03 REMOVE ALL SURFACE-MOUNTED CONDUITS THROUGHOUT INTERIOR OF LOCKER ROOMS AND CHECK ROOM, AND THROUGHOUT ENTIRE EXTERIOR OF BUILDING, SEE ELECTRICAL DRAWINGS

NOTES

1. PROPOSED DEMOLITION SHOWN IS INTENDED TO BE NON-STRUCTURAL. IF THE CONTRACTOR DETERMINES IN THE FIELD THAT ANY OF THE THE PROPOSED WORK WILL AFFECT THE INTEGRITY OF THE STRUCTURE IN ANY WAY, THE WORK SHALL BE STOPPED AND THE ARCHITECT AND/ OR STRUCTURAL ENGINEER SHALL BE CONTACTED PRIOR TO PROCEEDING.
2. ALL ELECTRICAL MUST BE "SAFED" OFF.
3. ALL DEMOLISHED MATERIAL TO BE SAFELY DISPOSED OF ACCORDING TO ALL APPLICABLE ENVIRONMENTAL CODES.
4. REMOVE (E) WALL-MOUNTED EQUIPMENT IN LOCKER ROOMS AND CHECK ROOM, INCLUDING BUT NOT LIMITED TO GARMENT HOOKS, MIRRORS, SHELVES, HAND/ HAIR DRYERS, ETC.

LEGEND

- (E) WALL
- (E) 1-HOUR FIRE RATED WALL
- PARTITION OR ELEMENT TO BE REMOVED
- CONCRETE SLAB TO BE REMOVED
- 02 41 19 SPECIFICATION SECTION, SEE PROJECT MANUAL



Revisions
10/9/2018 PLAN CHECK

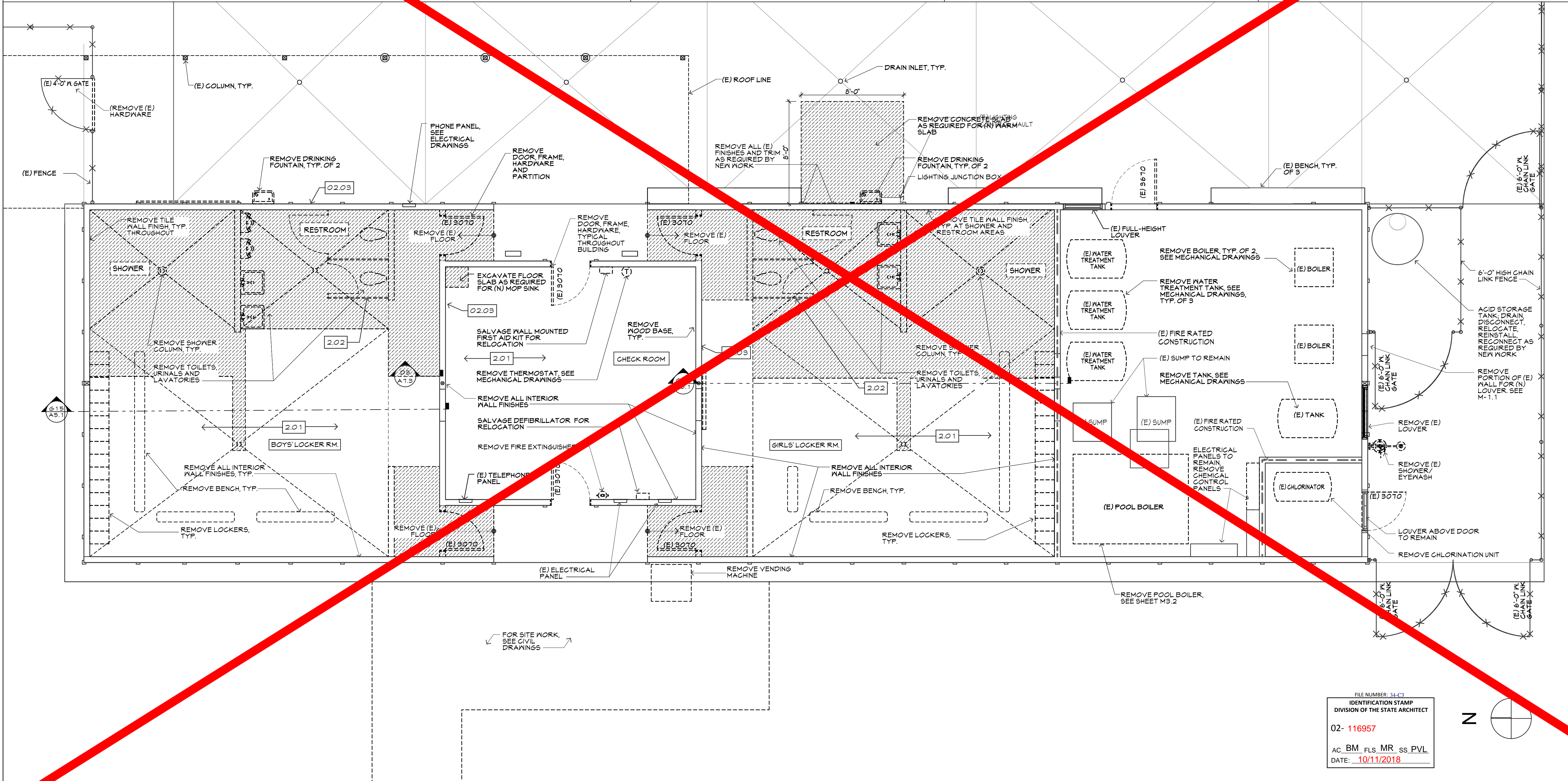
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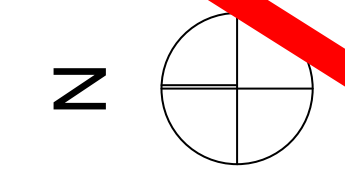
**POOL BUILDING RENOVATION**  
for  
**NEVADA JOINT UNION HIGH SCHOOL DISTRICT**  
NEVADA JOINT UNION HIGH SCHOOL, GRASS VALLEY, CA

DATE	10/10/18
NO.	17-429

DEMOLITION FLOOR PLAN  
**A2.1**



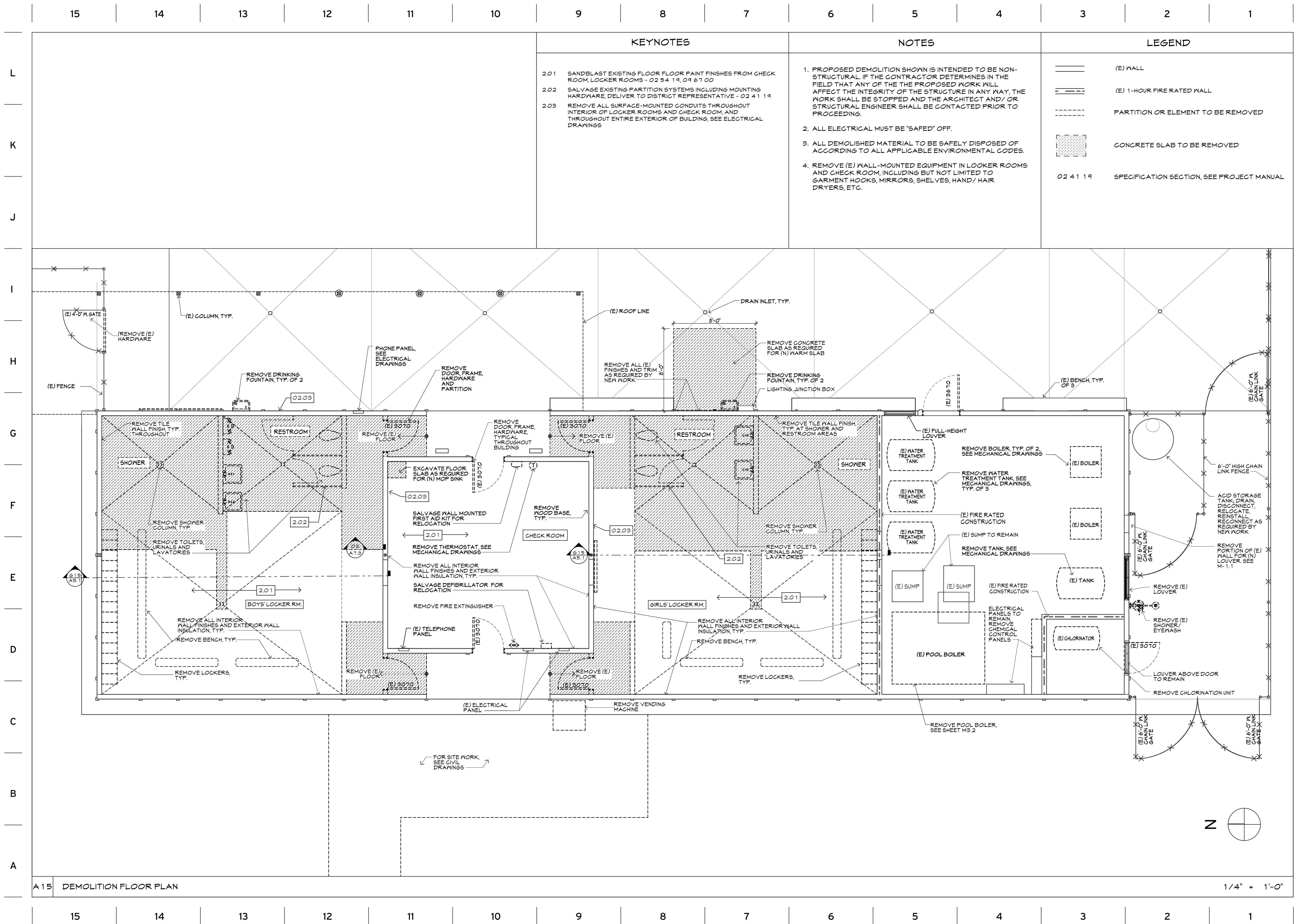
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AC, BM, FLS, MR, SS, PVL  
DATE: 10/11/2018



DEMOLITION FLOOR PLAN

1/4" = 1'-0"

15 14 13 12 11 10 9 8 7 6 5 4 3 2 1

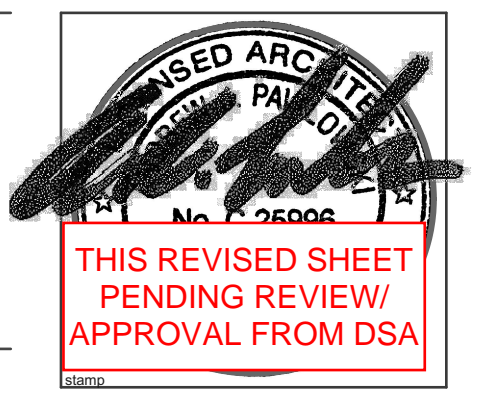


A 15 DEMOLITION FLOOR PLAN

1/4" = 1'-0"

KEYNOTES	NOTES
<p>2.01 SANDBLAST EXISTING FLOOR FLOOR PAINT FINISHES FROM CHECK ROOM, LOCKER ROOMS - 02 54 19, 09 67 00</p> <p>2.02 SALVAGE EXISTING PARTITION SYSTEMS INCLUDING MOUNTING HARDWARE, DELIVER TO DISTRICT REPRESENTATIVE - 02 41 19</p> <p>2.03 REMOVE ALL SURFACE-MOUNTED CONDUITS THROUGHOUT INTERIOR OF LOCKER ROOMS AND CHECK ROOM, AND THROUGHOUT ENTIRE EXTERIOR OF BUILDING, SEE ELECTRICAL DRAWINGS</p>	<p>1. PROPOSED DEMOLITION SHOWN IS INTENDED TO BE NON-STRUCTURAL. IF THE CONTRACTOR DETERMINES IN THE FIELD THAT ANY OF THE THE PROPOSED WORK WILL AFFECT THE INTEGRITY OF THE STRUCTURE IN ANY WAY, THE WORK SHALL BE STOPPED AND THE ARCHITECT AND/ OR STRUCTURAL ENGINEER SHALL BE CONTACTED PRIOR TO PROCEEDING.</p> <p>2. ALL ELECTRICAL MUST BE "SAFED" OFF.</p> <p>3. ALL DEMOLISHED MATERIAL TO BE SAFELY DISPOSED OF ACCORDING TO ALL APPLICABLE ENVIRONMENTAL CODES.</p> <p>4. REMOVE (E) WALL-MOUNTED EQUIPMENT IN LOCKER ROOMS AND CHECK ROOM, INCLUDING BUT NOT LIMITED TO GARMENT HOOKS, MIRRORS, SHELVES, HAND/ HAIR DRYERS, ETC.</p>

LEGEND
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(E) 1-HOUR FIRE RATED WALL
PARTITION OR ELEMENT TO BE REMOVED
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02 41 19 SPECIFICATION SECTION, SEE PROJECT MANUAL



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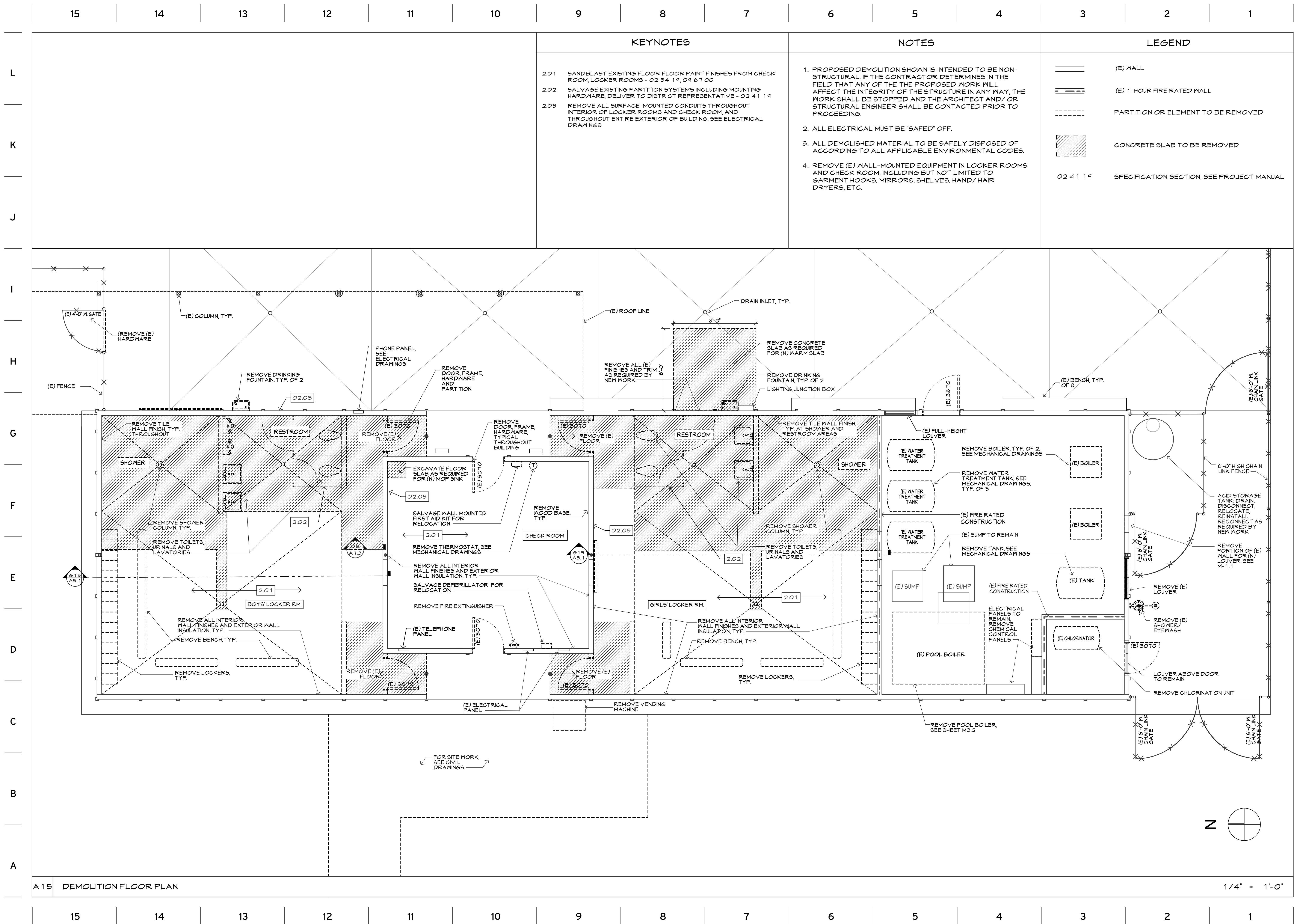
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**POOL BUILDING RENOVATION**  
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NEVADA JOINT UNION HIGH SCHOOL, GRASS VALLEY, CA

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DEMOLITION FLOOR PLAN

**A2.1**



A 15 DEMOLITION FLOOR PLAN

1/4" = 1'-0"

KEYNOTES	NOTES
<p>2.01 SANDBLAST EXISTING FLOOR FLOOR PAINT FINISHES FROM CHECK ROOM, LOCKER ROOMS - 02 54 19, 09 67 00</p> <p>2.02 SALVAGE EXISTING PARTITION SYSTEMS INCLUDING MOUNTING HARDWARE, DELIVER TO DISTRICT REPRESENTATIVE - 02 41 19</p> <p>2.03 REMOVE ALL SURFACE-MOUNTED CONDUITS THROUGHOUT INTERIOR OF LOCKER ROOMS AND CHECK ROOM, AND THROUGHOUT ENTIRE EXTERIOR OF BUILDING, SEE ELECTRICAL DRAWINGS</p>	<p>1. PROPOSED DEMOLITION SHOWN IS INTENDED TO BE NON-STRUCTURAL. IF THE CONTRACTOR DETERMINES IN THE FIELD THAT ANY OF THE THE PROPOSED WORK WILL AFFECT THE INTEGRITY OF THE STRUCTURE IN ANY WAY, THE WORK SHALL BE STOPPED AND THE ARCHITECT AND/ OR STRUCTURAL ENGINEER SHALL BE CONTACTED PRIOR TO PROCEEDING.</p> <p>2. ALL ELECTRICAL MUST BE "SAFED" OFF.</p> <p>3. ALL DEMOLISHED MATERIAL TO BE SAFELY DISPOSED OF ACCORDING TO ALL APPLICABLE ENVIRONMENTAL CODES.</p> <p>4. REMOVE (E) WALL-MOUNTED EQUIPMENT IN LOCKER ROOMS AND CHECK ROOM, INCLUDING BUT NOT LIMITED TO GARMENT HOOKS, MIRRORS, SHELVES, HAND/ HAIR DRYERS, ETC.</p>

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NEVADA JOINT UNION HIGH SCHOOL, GRASS VALLEY, CA

DATE	10/15/18
NO.	17-429

DEMOLITION FLOOR PLAN

**A2.1**



15 14 13 12 11 10 9 8 7 6 5 4 3 2 1

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**KEYNOTES**

- 03.14 HYDRONICALLY HEATED SLABS AT SHOWER, SEE SHEET M 1.2, SLOPE 2% MAX. TO DRAIN, EXPANSION JOINT ALL AROUND SLAB, SEE DETAIL 3, SHEET C 4.6 - 321313
- 06.09 SINGLE-TIER MELAMINE SURFACED SHELF WITH BRACKETS 12" DEEP, FULL WIDTH OF CLOSET, SEE A 9, SHEET A 7.3 FOR BLOCKING - 064116A9
- 08.12 POWER DOOR ACTUATOR PUSH PLATES (HIGH/LOW), CENTERLINE OF LOWER ACTUATOR AT 7" MIN-8" MAX. ABOVE FINISHED FLOOR, HIGH ACTUATOR AT 30" MIN-44" MAX. ABOVE FINISHED FLOOR - 08 T1 00

**SIGNAGE SCHEDULE**

- FOR SIGN DETAILS, SEE SHEET A 7.2
- A SANITARY FACILITY SIGNAGE, DOOR MOUNTED SEE DET. A3 A7.2
  - B SANITARY FACILITY SIGNAGE, WALL MOUNTED SEE DET. D3 A7.2
  - C ROOM ID. SIGNAGE, WALL MOUNTED
  - D INTERNATIONAL SYMBOL OF ACCESSIBILITY SIGNAGE SEE DET. A6 A7.2
  - E 'EXIT ONLY, NO ENTRANCE' WALL-MOUNTED SEE DET. G3 A7.2
  - F BRAILLE EXIT WALL-MOUNTED SIGN SEE DET. J3 A7.2

NOTE:  
DOOR MOUNTED SANITARY FACILITY SIGN SHALL BE CONTRASTING BLUE AND WHITE. NON-DOOR MOUNTED SIGN COLOR SHALL BE SELECTED BY OWNER/ARCHITECT FROM MANUFACTURER'S FULL RANGE OF COLORS TO MATCH FACILITY STANDARDS. ROOM NAMES AND PICTOGRAM OPTIONS SHALL BE SELECTED BY OWNER.

**NOTES**

1. THE OWNER REQUIRES UNIFORMITY IN THE FINISHES OF ACCESSORIES TO THE GREATEST EXTENT POSSIBLE. IT IS THE RESPONSIBILITY OF THE SUCCESSFUL GENERAL CONTRACTOR TO COORDINATE MANUFACTURER, RESEARCH, SUPPLIERS, PRODUCT DATA, SUBMITTALS, MEETINGS WITH THE OWNER, AND INSTALLATION IN A WAY THAT MAXIMIZES THIS UNIFORMITY TO THE HIGHEST REASONABLE STANDARD.
2. FOR ANY FREESTANDING ACCESSORY SEE DETAIL 6 15, SHEET A 7.3 FOR ATTACHMENT
3. PROVIDE BLOCKING FOR ALL WALL MOUNTED ACCESSORIES AND FIXTURES, SEE SHEET S 0.1, "EQUIPMENT ANCHORAGE NOTES."
4. WHERE LOCKER ROOM FLOOR IS TO SLOPE TO DRAIN, FINISHED FLOOR SHALL SLOPE 1/2%.

**LEGEND**

- (N) PARTITION - SEE SHEETS 'S 1.1' & 'S 2.1'
- (N) SIGN, SEE SCHEDULE THIS SHEET
- (E) WALL
- D4 DOOR ID, SEE DOOR SCHEDULE, SHEET A 6.1
- X EQUIPMENT/ FIXTURE, SEE EQUIPMENT SCHEDULE SHEET A 6.1
- (N) CONCRETE WARM SLAB, SLOPE 2% MAX.
- 07.21.00 SPECIFICATION SECTION, SEE PROJECT MANUAL



**Revisions**

10/3/2018	PLAN CHECK

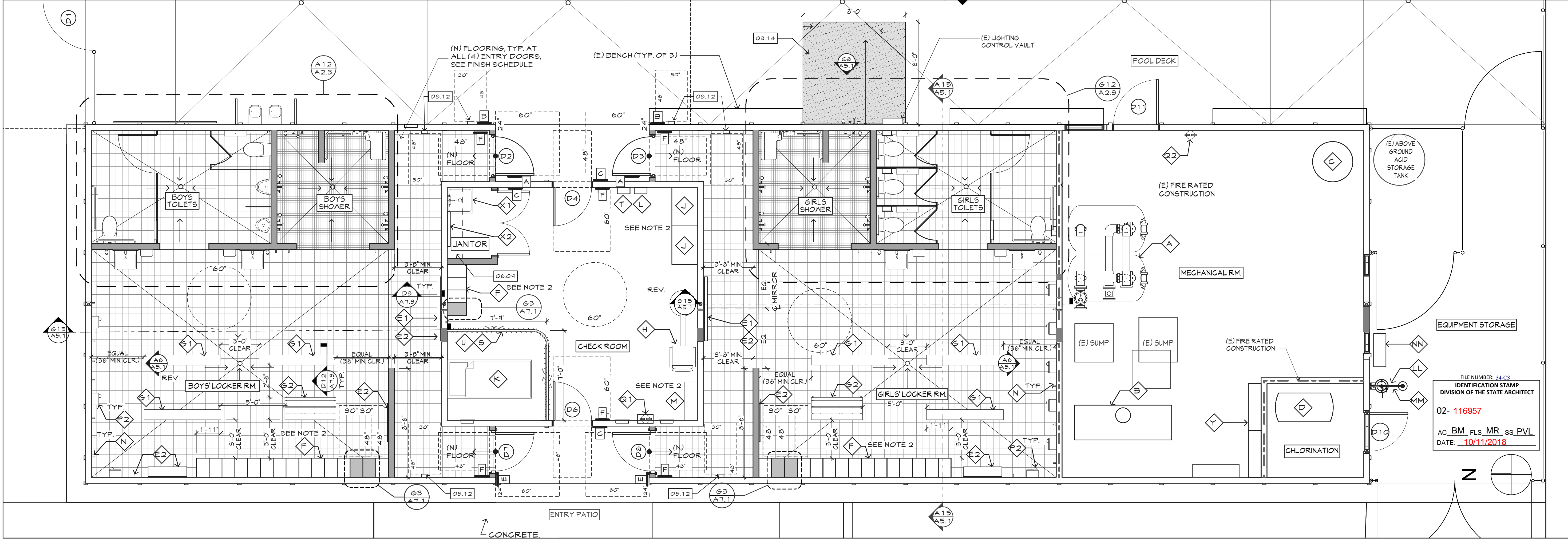
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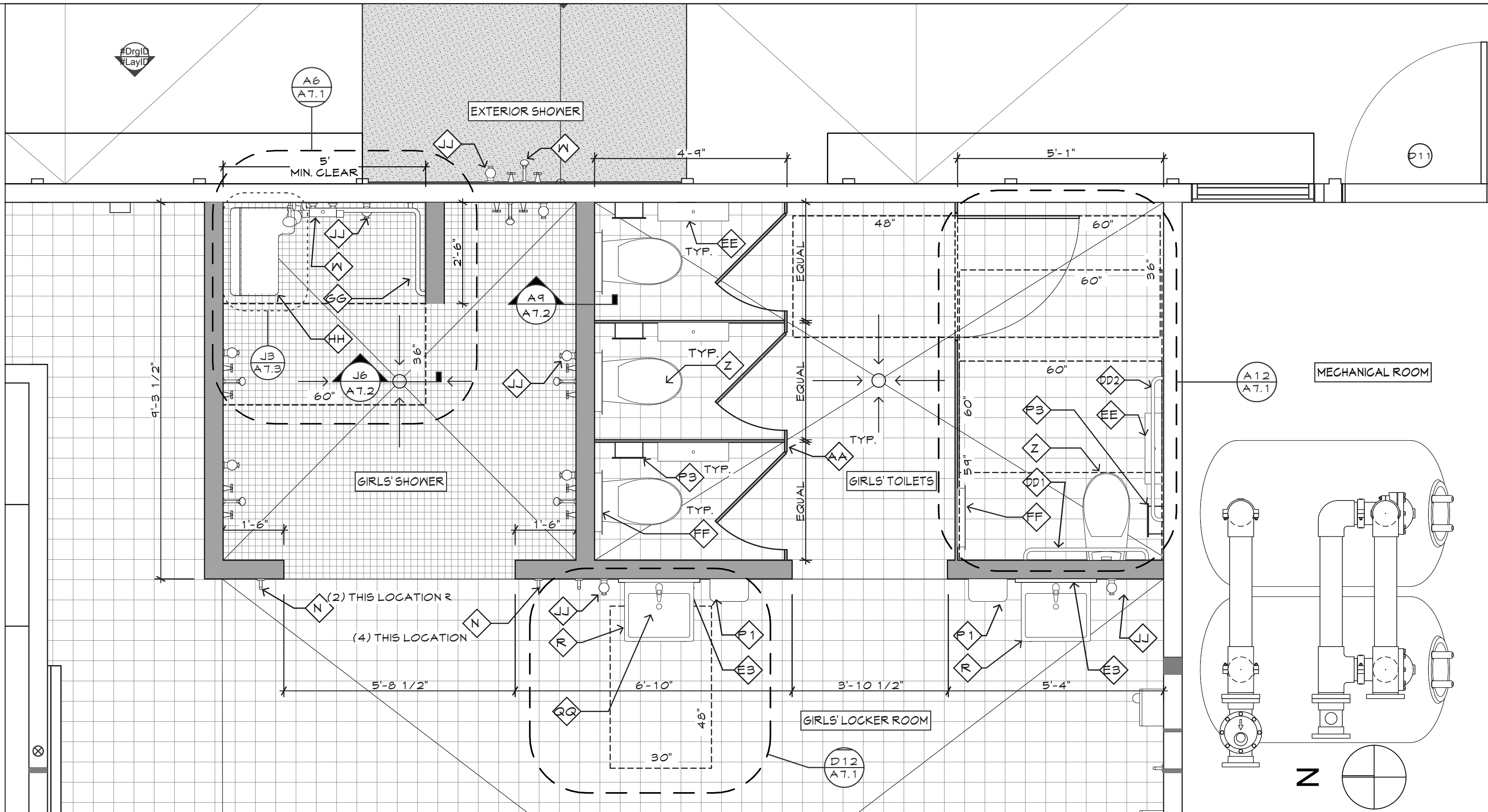
**POOL BUILDING RENOVATION**  
for  
**NEVADA JOINT UNION HIGH SCHOOL DISTRICT**  
NEVADA JOINT UNION HIGH SCHOOL, GRASS VALLEY, CA

10/10/18  
1/4" = 1'0"  
17-429

FLOOR PLAN  
**A2.2**

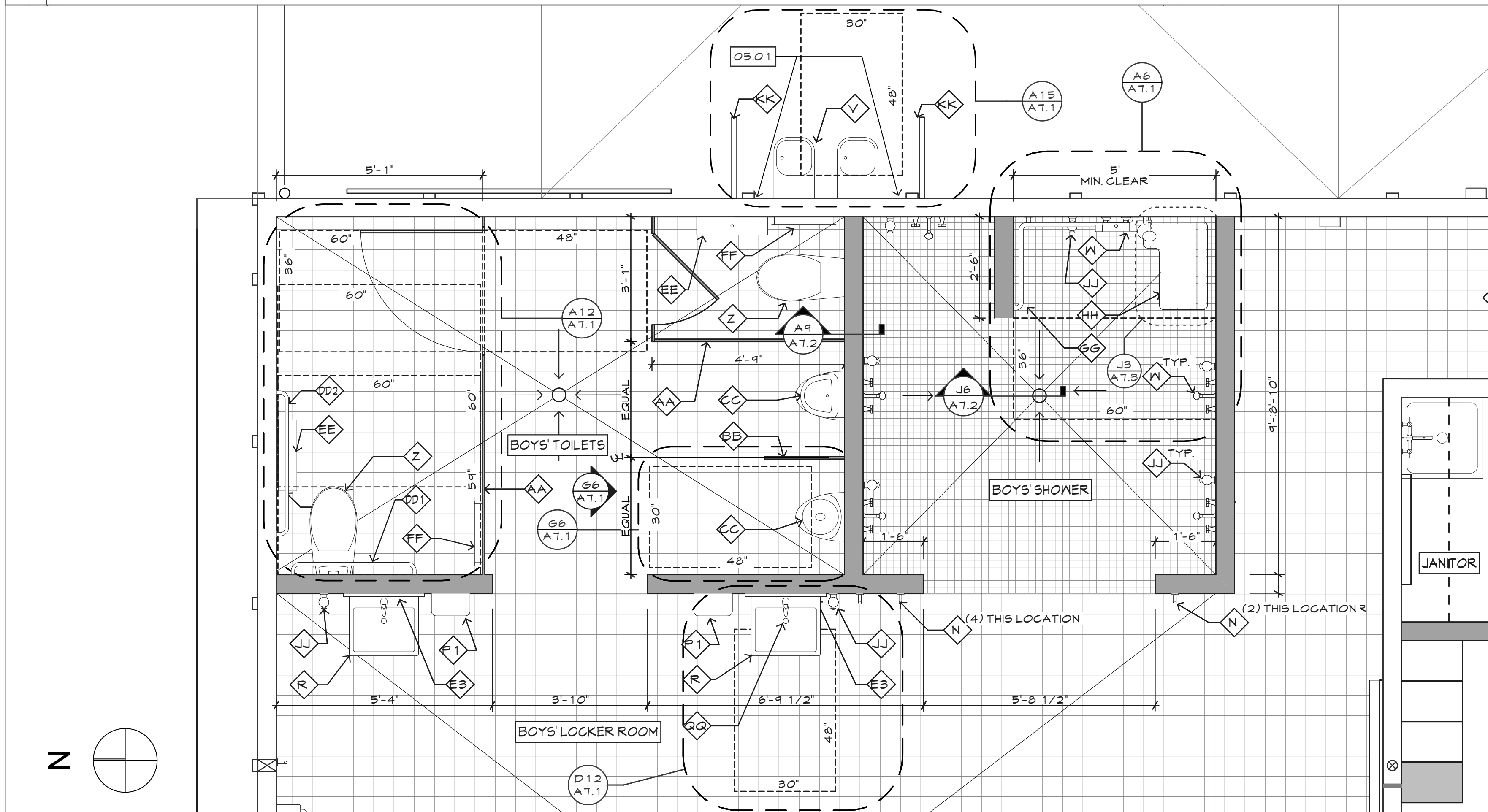


15 14 13 12 11 10 9 8 7 6 5 4 3 2 1



G12 GIRLS' RESTROOM & SHOWER

1/2" = 1'-0"



A12 BOYS' RESTROOM & SHOWER

1/2" = 1'-0"

NOTES

1. SEE SHEET A6.1 FOR EQUIPMENT AND FINISH SCHEDULES.

KEYNOTES

05.01 STAINLESS STEEL MAINSCOT TO 48" A.F.F. AT DRINKING FOUNTAIN - 05 50 00

LEGEND

- (N) PARTITION - SEE SHEETS 'S.1.1' & 'S.2.1'
- (E) WALL
- EQUIPMENT / FIXTURE, SEE EQUIPMENT SCHEDULE SHEET A6.1

FILE NUMBER: 31/CS  
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 02- 116957  
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PARTIAL FLOOR PLANS  
**A23**


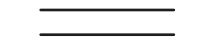
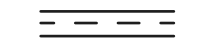
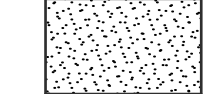

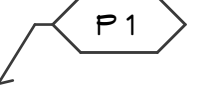
15 14 13 12 11 10 9 8 7 6 5 4 3 2 1

L  
K  
J  
I  
H  
G  
F  
E  
D  
C  
B  
A

KEYNOTES

- 06.01 PLYWOOD SHEATHING AT (N) CEILING PAINTED - 06 16 00, 09 91 13
- 09.13 LABEL, PAINT, AND COLOR CODE BY TYPE / PURPOSE ALL (E) AND (N) OVERHEAD PIPING AND DUCTING IN MECHANICAL ROOM - 09 91 23
- 21.01 MODIFY (E) FIRE SUPPRESSION SYSTEM AS REQUIRED BY (N) WORK, SEE SHEETS FP 100-104 - 21 10 00

LEGEND

-  (N) PARTITION
-  (E) WALL
-  (E) RAFTER
-  (N) GYPSUM BOARD CEILING - 09 29 00, SEE FINISH SCHEDULE
-  EQUIPMENT / FIXTURE, SEE EQUIPMENT SCHEDULE SHEET A6.1
-  PAINT, SEE FINISH SCHEDULE SHEET A6.1



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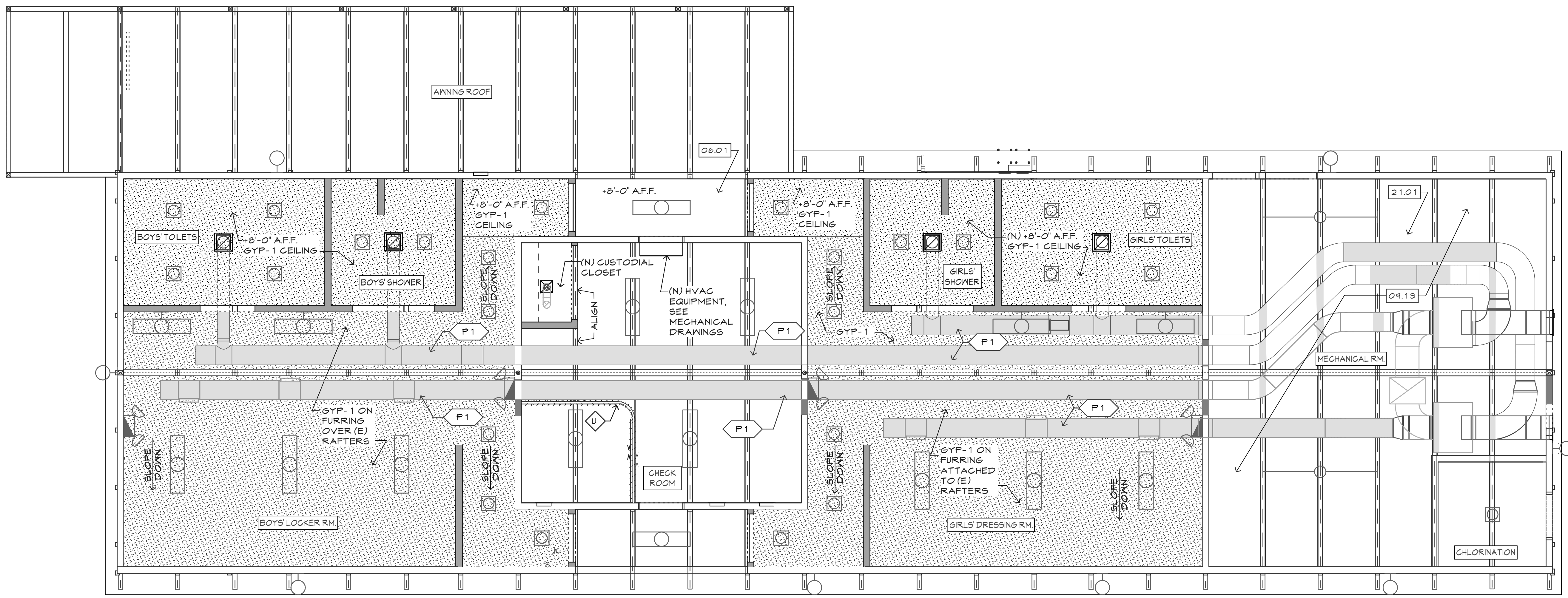
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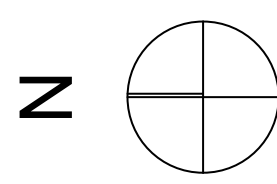
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10/10/18  
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REFLECTED  
CEILING PLAN  
**A3.1**



FILE NUMBER: 34-C3  
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AC BM\_FLS\_MR\_SS\_PVL  
DATE: 10/11/2018



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15 14 13 12 11 10 9 8 7 6 5 4 3 2 1

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KEYNOTES

NOTES

- 02.11 REMOVE EXISTING ROOFING SYSTEM COMPLETE - 02 41 16
- 02.12 REMOVE EXISTING GUTTERS AND DOWNSPOUTS
- 06.07 INFILL/REPLACE AS REQUIRED EXISTING 3/4" T&G PLYWOOD ROOF DECKING AS REQUIRED BY EQUIPMENT REMOVALS - 06 16 00
- 07.01 CLASS "A" COMPOSITION SHINGLES - 07 3 1 13
- 07.17 SELF-ADHERING SHEET UNDERLAYMENT OVER ENTIRE SURFACE OF LOCKER/MECHA/CHECKROOM ROOF - 07 3 1 13
- 07.18 CRICKET - 07 6 2 00
- 07.20 BUILT-UP ASPHALT ROOFING - 07 5 4 30
- 07.21 (N) GUTTERS WITH DEBRIS SCREENS, (N) DOWNSPOUTS - 07 7 1 00

1. ALL ROOFING MATERIALS SHALL HAVE MINIMUM CLASS "A" FIRE RATING.
2. INSTALLATION OF ROOFING SHALL BE IN ACCORDANCE WITH MANUFACTURER'S SPECIFICATIONS.



Revisions
10/3/2018 PLAN CHECK

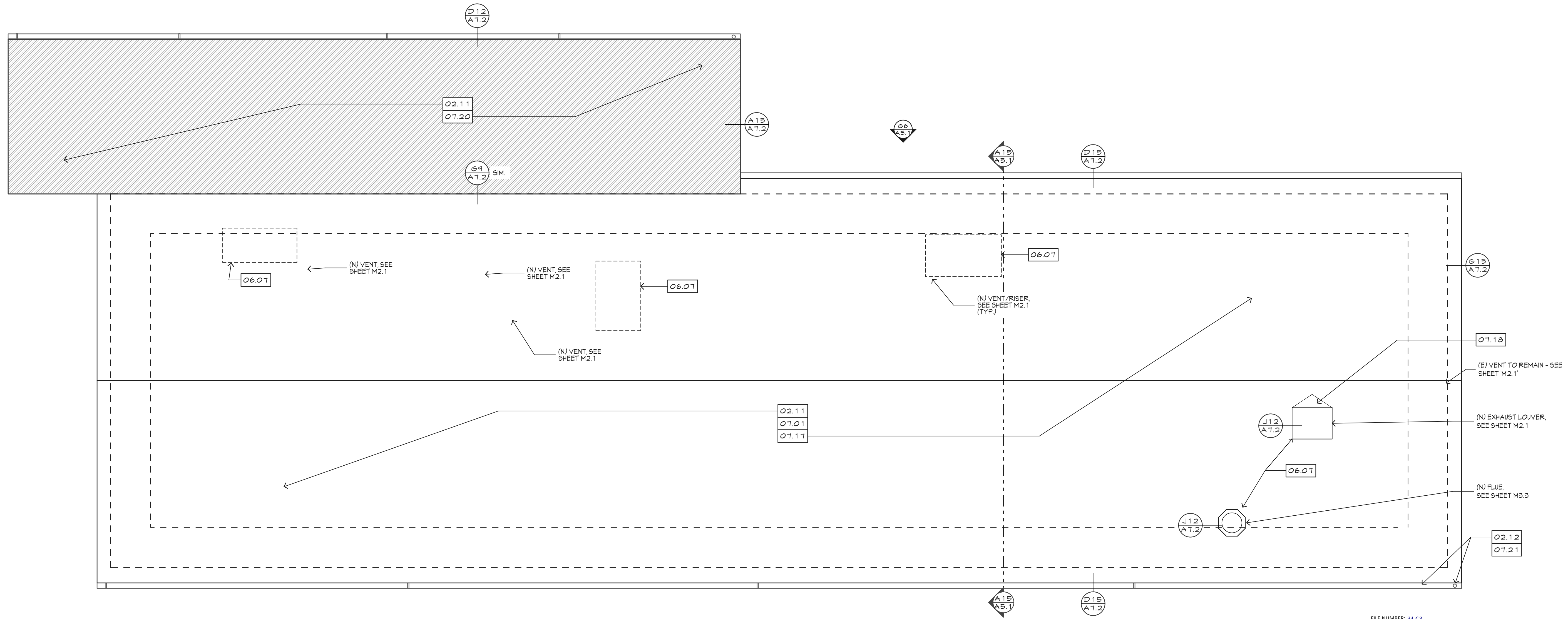
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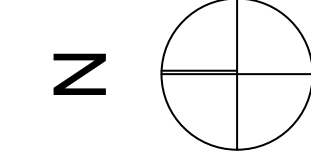
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DATE: 10/10/18  
SCALE: 1/4" = 1'0"  
JOB: 17-429

ROOF PLAN  
**A4.1**

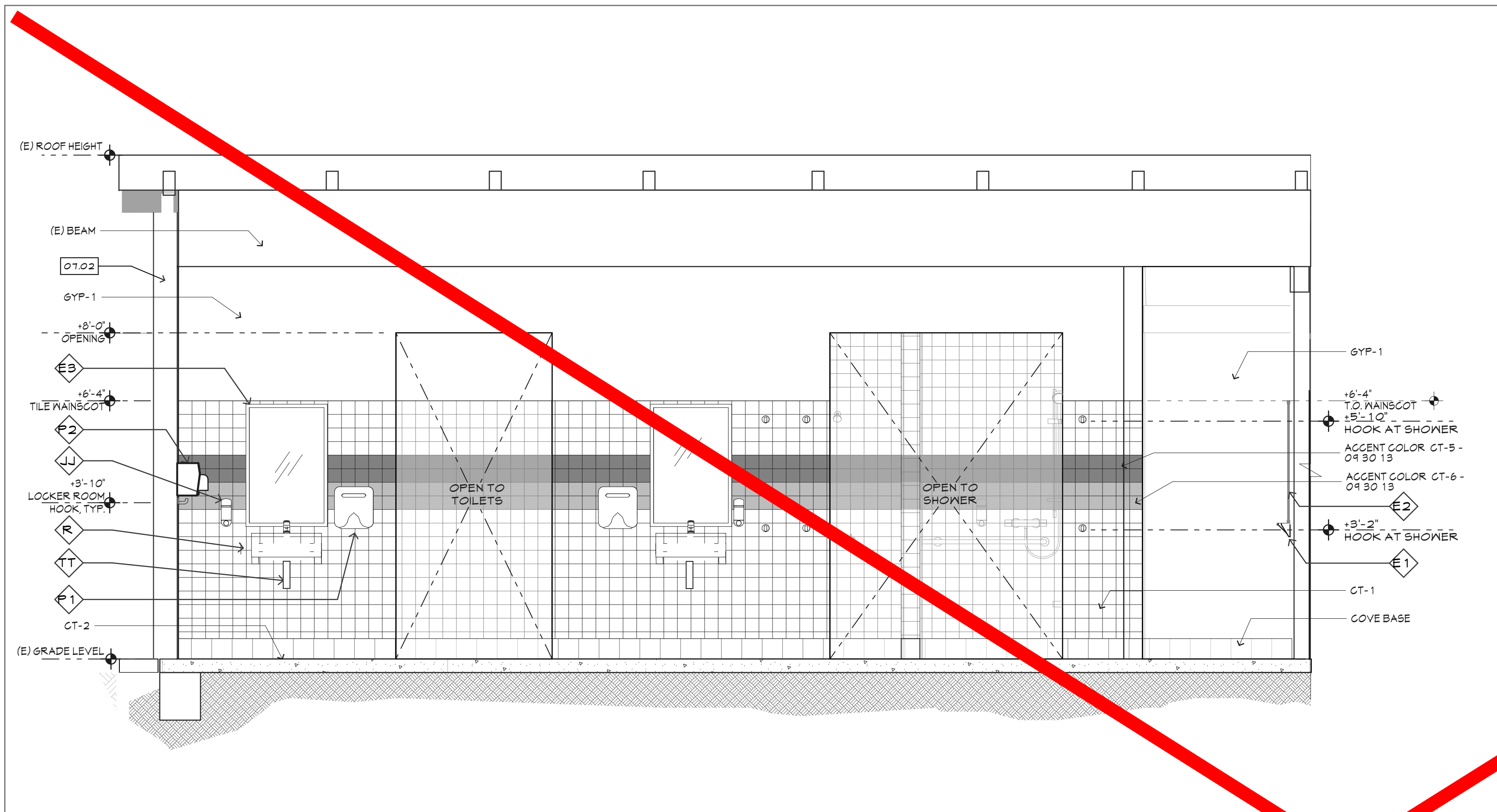


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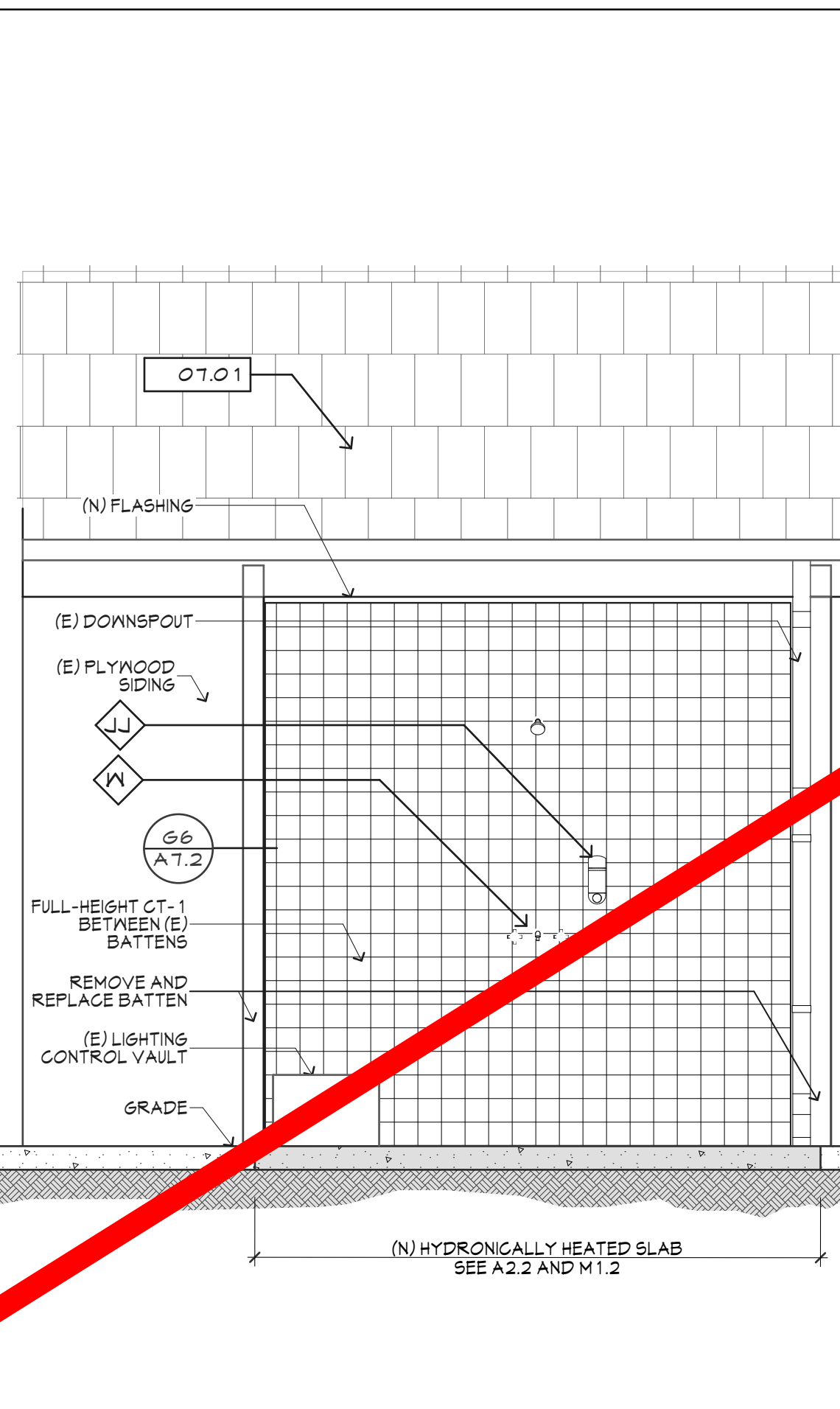


15 14 13 12 11 10 9 8 7 6 5 4 3 2 1

15 14 13 12 11 10 9 8 7 6 5 4 3 2 1



G15 INTERIOR LOCKER ROOM ELEVATION 2" = 1'-0"



G6 EXTERIOR SHOWER ELEVATION 1/2" = 1'-0"

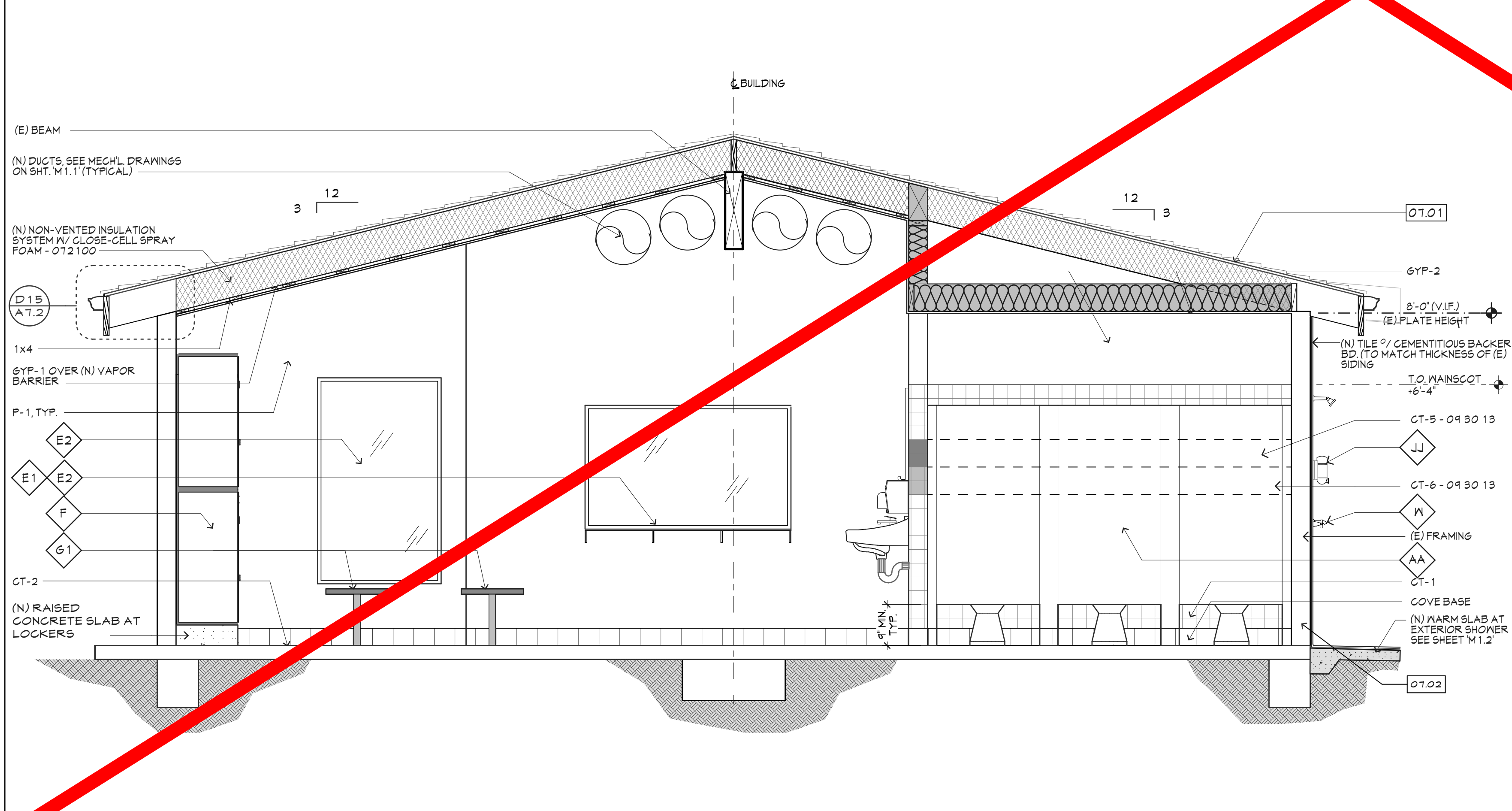
**SECTION NOTES**  
 1. FIRE BLOCKING/DRAFTSTOPPING (VERTICAL AND HORIZONTAL) SHALL CONFORM TO CBC SECTION 710.2.

**LEGEND**

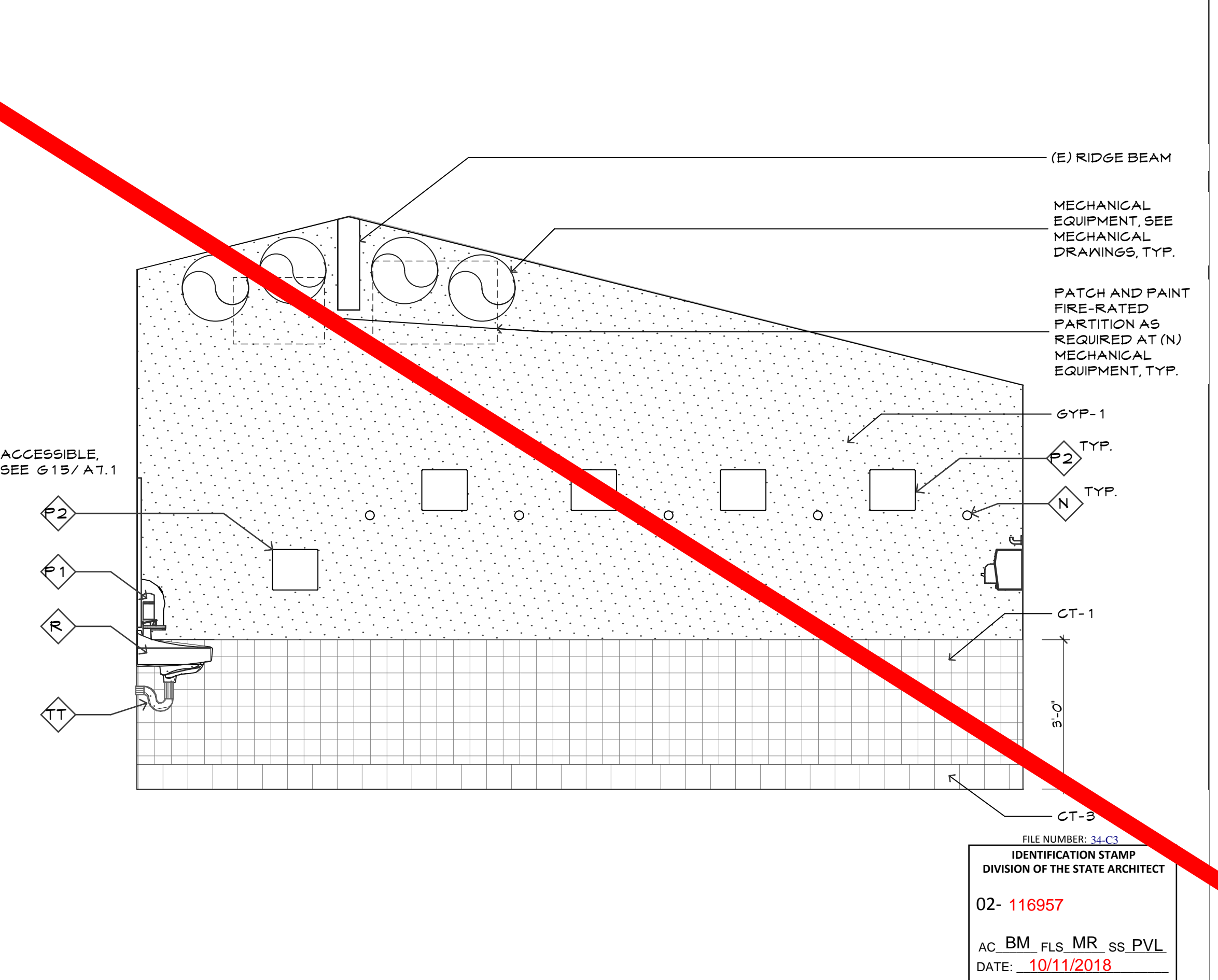
X	EQUIPMENT / FIXTURE, SEE EQUIPMENT SCHEDULE SHEET A6.1
TF-1	SEE FINISH SCHEDULE, SHEET A6.1
CT-1	SEE FINISH SCHEDULE, SHEET A6.1
07-21-00	SPECIFICATION SECTION, SEE PROJECT MANUAL

**KEY NOTES**

07.01 CLASS "A" COMPOSITION SHINGLES - 0713113  
 07.02 REMOVE/REPLACE ANY THERMAL INSULATION AS REQUIRED BY (N) WORK, TYP. THROUGHOUT EXTERIOR WALLS OF LOCKER ROOMS, SHOWERS, TOILETS, CHECK ROOM - 07 21 00



G15 SECTION/INTERIOR ELEVATION 1/2" = 1'-0"



A6 INTERIOR LOCKER ROOM ELEVATION 1/2" = 1'-0"



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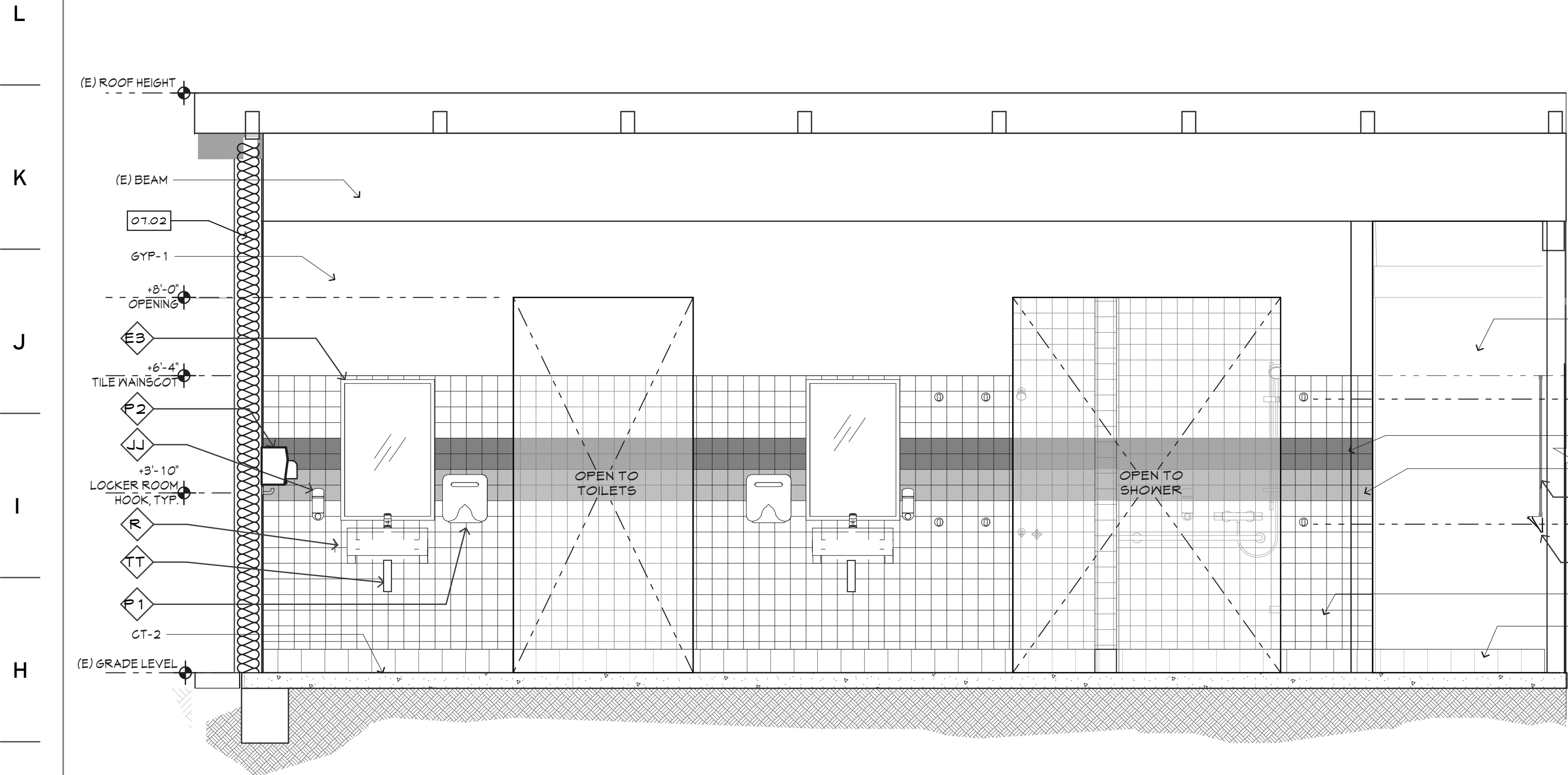
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SECTIONS AND ELEVATION

**A51**

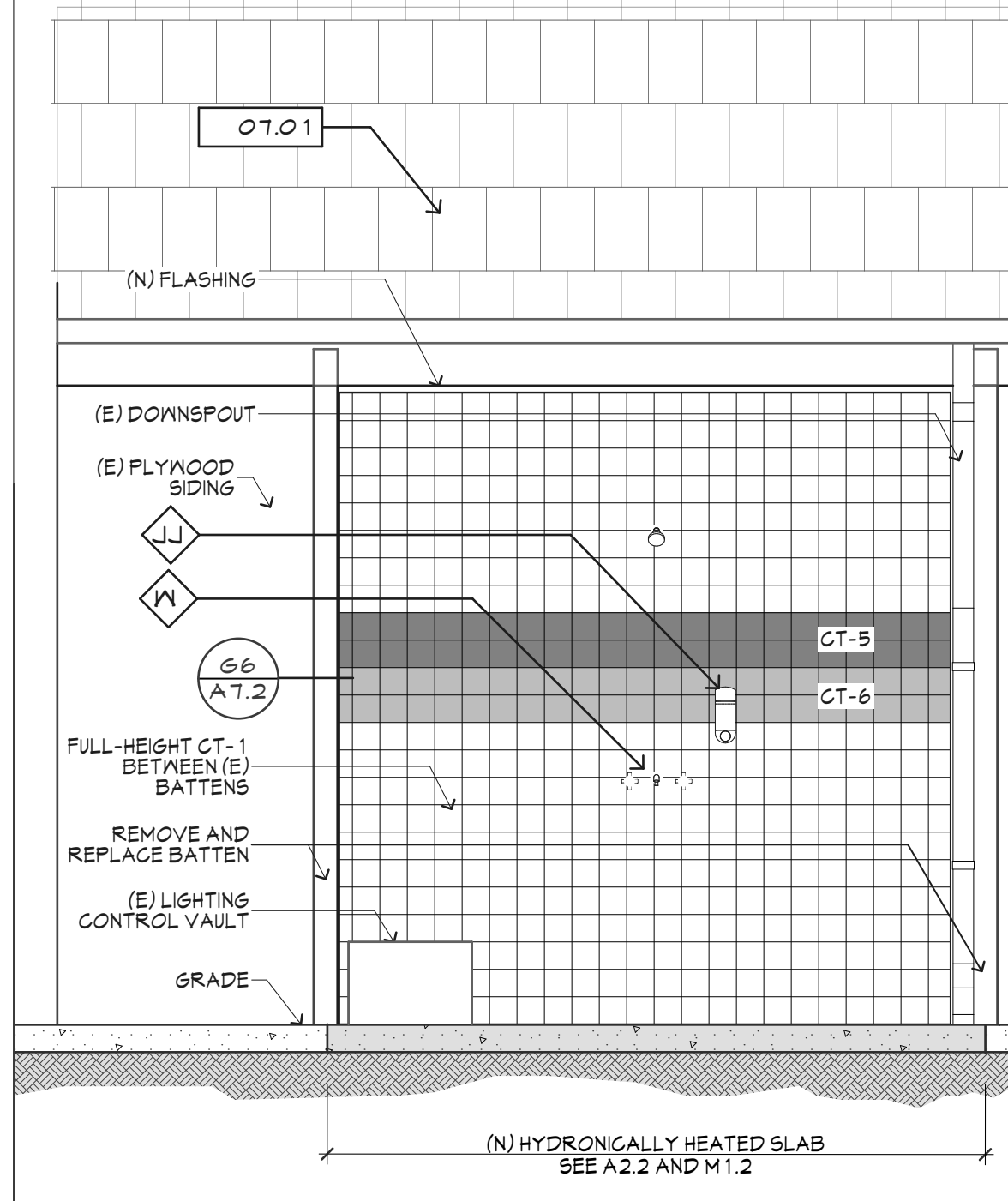
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15 14 13 12 11 10 9 8 7 6 5 4 3 2 1



G15 INTERIOR LOCKER ROOM ELEVATION

1/2" = 1'-0"



G6 EXTERIOR SHOWER ELEVATION 1/2" = 1'-0"

SECTION NOTES

1. FIRE BLOCKING/DRAFTSTOPPING (VERTICAL AND HORIZONTAL) SHALL CONFORM TO CBC SECTION 710.2.

LEGEND

- ⊗ EQUIPMENT / FIXTURE, SEE EQUIPMENT SCHEDULE SHEET A6.1
- GYP-1 SEE FINISH SCHEDULE, SHEET A6.1
- CT-1 SPECIFICATION SECTION, SEE PROJECT MANUAL
- 07-21-00

KEY NOTES

- 07.01 CLASS "A" COMPOSITION SHINGLES - 0713113
- 07.02 (N) R-21 THERMAL INSULATION, TYP. THROUGHOUT EXTERIOR WALLS OF LOCKER ROOMS, SHOWERS, TOILETS, CHECK ROOM - 072100



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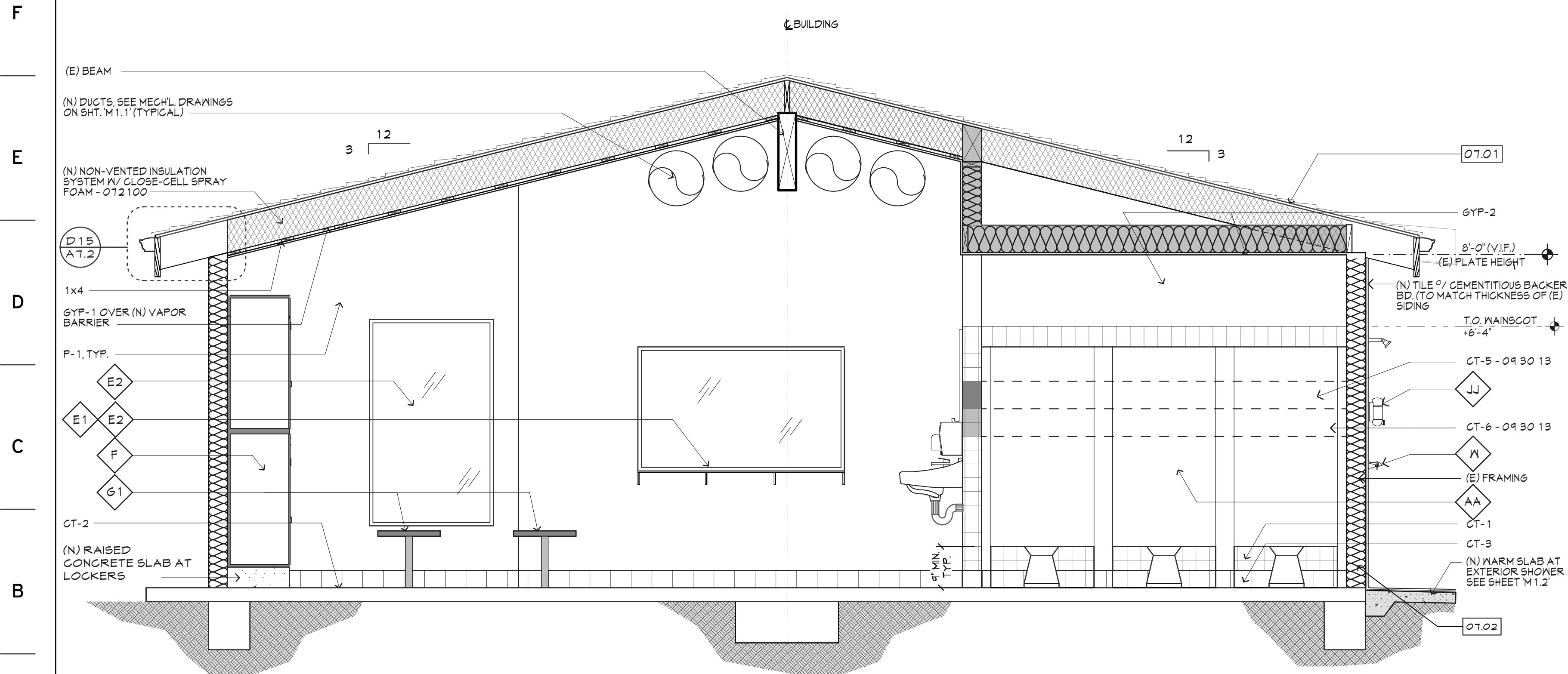
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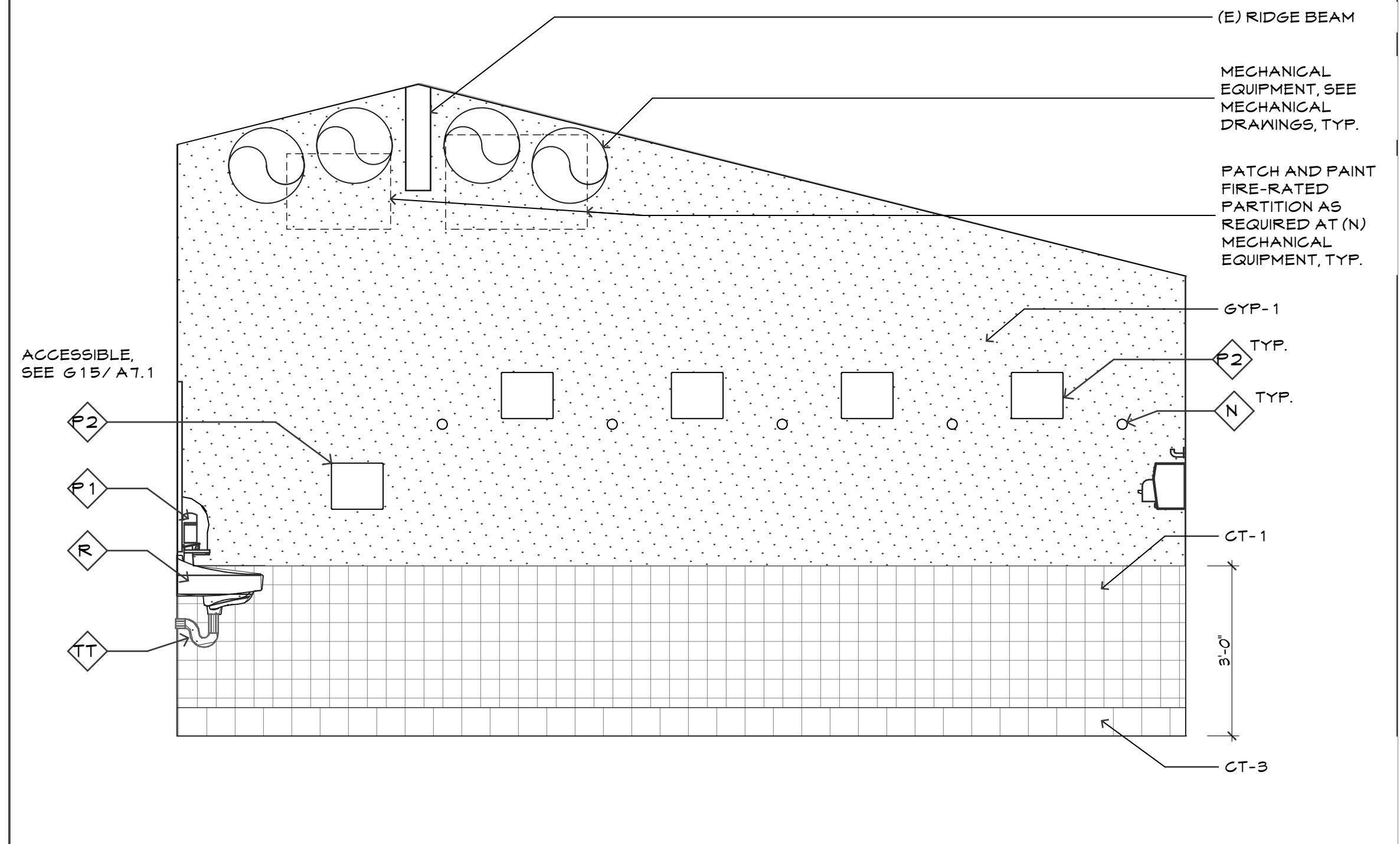
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SECTIONS AND ELEVATION  
**A5.1**



A15 SECTION/INTERIOR ELEVATION

1/2" = 1'-0"

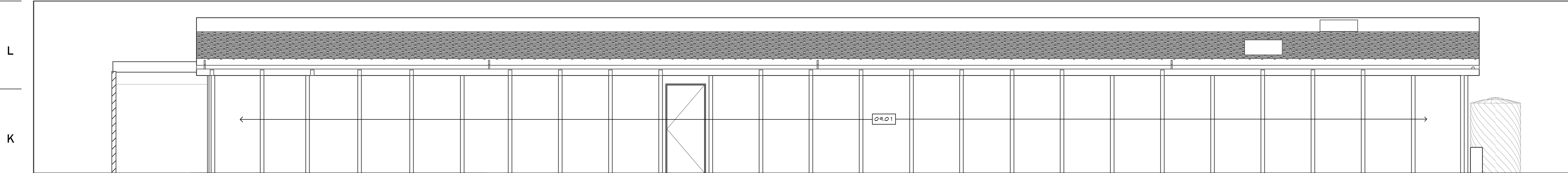


A6 INTERIOR LOCKER ROOM ELEVATION

1/2" = 1'-0"

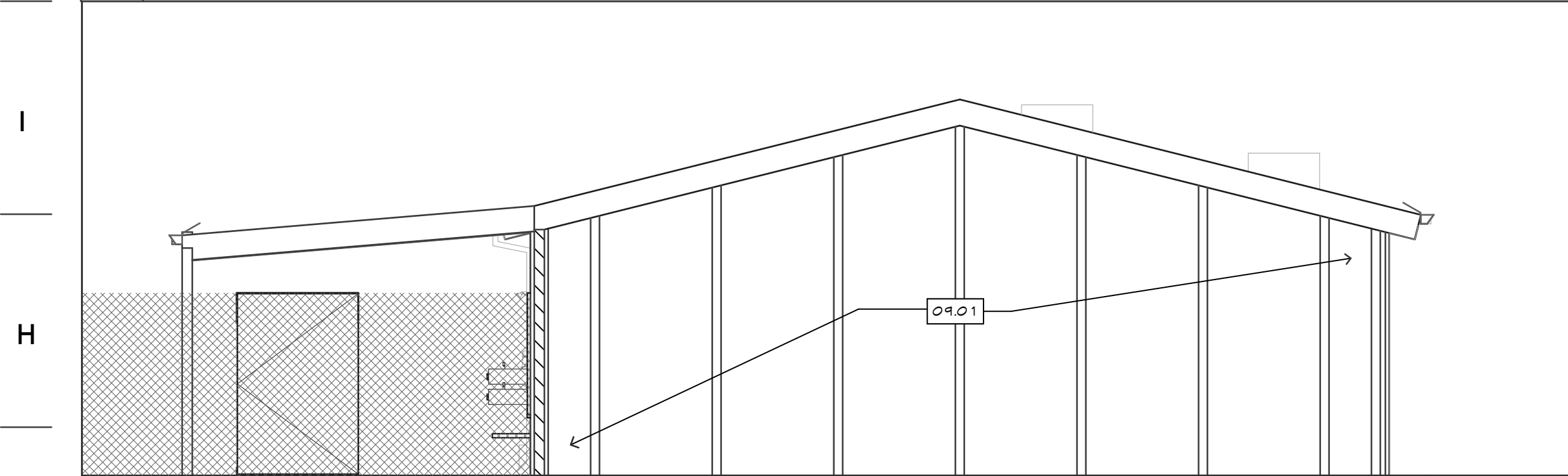
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15 | 14 | 13 | 12 | 11 | 10 | 9 | 8 | 7 | 6 | 5 | 4 | 3 | 2 | 1



J15 WEST ELEVATION (1)

1/4" = 1'-0"

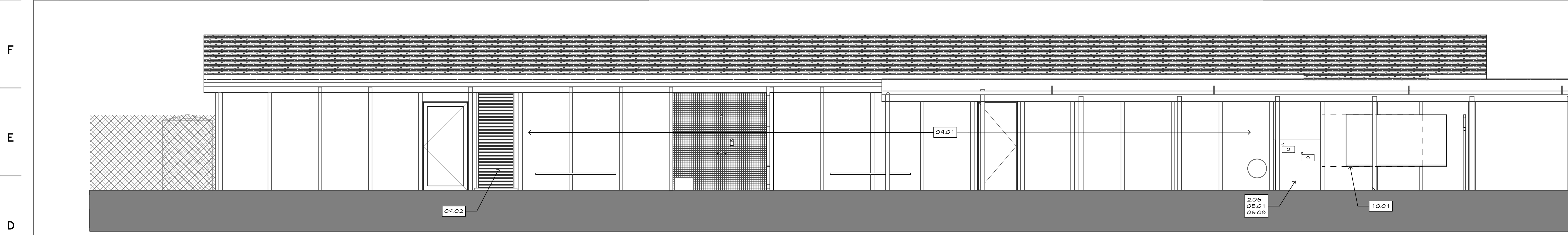


G15 NORTH ELEVATION (2)

1/4" = 1'-0"

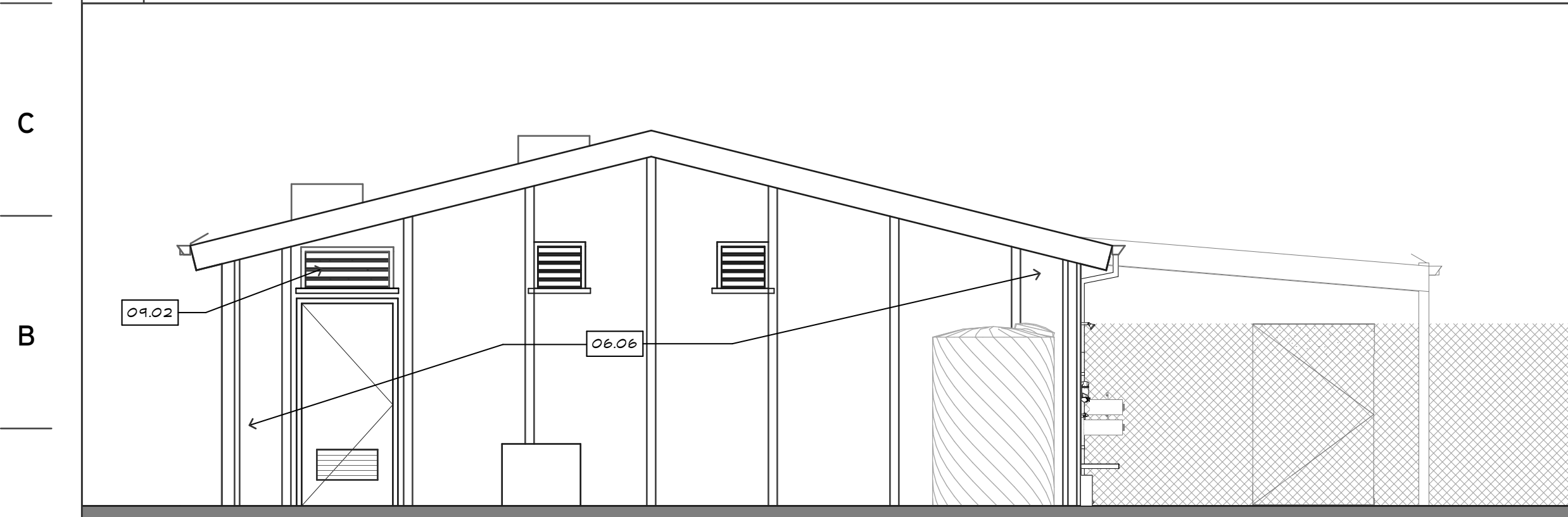
KEY NOTES

- 02.06 REMOVE (E) TILE AND BACKING
- 05.01 STAINLESS STEEL WAINSCOT TO 48" A.F.F. AT DRINKING FOUNTAIN - 05 50 00
- 06.06 REMOVE AND REPLACE ALL (E) PLYWOOD SIDING, TRIM, AND FLASHING ACROSS SOUTH ELEVATION ENTIRELY - 06 16 00, 07 62 00
- 06.08 NEW EXTERIOR WOOD SIDING TO MATCH EXISTING - 06 16 00
- 09.01 PAINT (N) AND (E) WOOD EXTERIOR FINISHES, TRIM, FLASHING, GUTTERS, DOWNSPOUTS, ETC., INCLUDING SHADE STRUCTURE AT NORTHEAST CORNER OF BUILDING - 09 91 13
- 09.02 (E) LOUVERS TO REMAIN - REMOVE (E) PAINT FINISH, PRIME, AND RE-PAINT IN MECHANICAL ROOM - 09 91 13
- 10.01 REMOVE (E) WHITEBOARD AS REQUIRED BY (N) WORK; PROVIDE BLOCKING AND RE-INSTALL AS SHOWN - 10 28 00



D15 WEST ELEVATION (2)

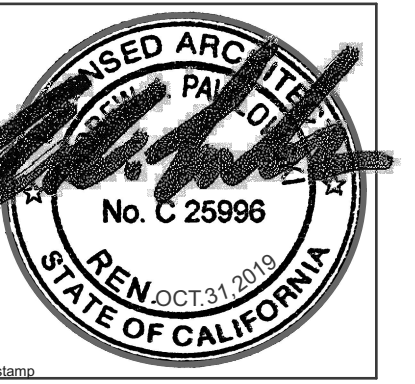
1/4" = 1'-0"



A15 SOUTH ELEVATION (1)

1/4" = 1'-0"

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 NEVADA JOINT UNION HIGH SCHOOL, GRASS VALLEY, CA

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EXTERIOR ELEVATIONS  
**A5.2**

15 | 14 | 13 | 12 | 11 | 10 | 9 | 8 | 7 | 6 | 5 | 4 | 3 | 2 | 1

FINISH SCHEDULE

ROOM OR AREA	FLOOR	FLOOR BASE	WALLS	WAINSCOT	CEILING	NOTES
BOYS' LOCKER ROOM	CT-4	CT-3	GYP-1	CT-1	GYP-1	SEE NOTE 3
BOYS' TOILETS	CT-4	CT-3	GYP-1	CT-1	GYP-1	SEE NOTE 2
BOYS' SHOWER	CT-2	CT-3	CT-1	-	GYP-1	SEE NOTE 5
CHECK ROOM	FA-1	RB-1	GYP-1	-	P-1	
JANITOR'S CLOSET	FA-1	RB-1	GYP-1	RW-1	GYP-1	SEE NOTE 2
GIRLS' LOCKER ROOM	CT-4	CT-3	GYP-1	CT-1	GYP-1	SEE NOTE 3
GIRLS' TOILETS	CT-4	CT-3	GYP-1	CT-1	GYP-1	SEE NOTE 2
GIRLS' SHOWER	CT-2	CT-3	CT-1	-	GYP-1	SEE NOTE 5
MECHANICAL ROOM	(E) TO REMAIN	(E) TO REMAIN	P-1	-	P-1	SEE NOTE 4
CHLORINATION ROOM	(E) TO REMAIN	(E) TO REMAIN	P-1	-	P-1	SEE NOTE 4

**ABBREVIATIONS:**  
 CT-1 - CERAMIC WALL TILE - 09 30 13  
 CT-2 - CERAMIC FLOOR TILE - 09 30 13  
 CT-3 - COVED CERAMIC BASE - 09 30 13  
 CT-4 - CERAMIC FLOOR TILE - 09 30 13  
 GYP-1 - (N) 5/8" TYPE X MOISTURE AND MOLD RESISTANT GYPSUM BOARD, IMPERFECT SMOOTH FINISH, PAINTED - 09 29 00  
 P-1 - (N) ENAMEL PAINT, WITH ANTI-MICROBIAL ADDITIVE - 09 91 23  
 RB-1 - RESILIENT BASE MIN. 4" HIGH - 09 65 13  
 RW-1 - FLUID PROTECTIVE WALL COVERING - 09 72 00  
 FA-1 - FLUID APPLIED FLOORING, INCLUDING VAPOR CONTROL PRIMER, JOINT/CRACK FILLER, TOPCOAT, AND ANTI-MICROBIAL ADDITIVE - 09 67 00

**NOTES:**  
 1. REFER TO SPECIFICATIONS FOR ADDITIONAL INFORMATION.  
 2. WAINSCOT TO T6" A.F.F.  
 3. TILE WAINSCOT TO T6" A.F.F. AT EAST WALL OUTSIDE OF TOILET AND SHOWER AREAS ONLY; TILE WAINSCOT TO 36" AFF AT BOYS' LOCKER ROOM NORTH WALL, AND GIRLS' LOCKER ROOM SOUTH WALL  
 4. REPAIR EXISTING GYPSUM BOARD WALL FINISH AS REQUIRED BY NEW WORK, (N) PAINT FINISH - 09 91 23

DOOR / DOOR HARDWARE SCHEDULE

ID	D1	D2	D3	D4	D5	D6	D7	D8	D9	D10	D11
Quantity	2	2	2	2	1	4	4	4	1	1	1
W x H Size	4'-0"x6'-0"	3'-0"x6'-8"	3'-0"x6'-8"	3'-0"x7'-0"	5'-0"x6'-8"	3'-0"x7'-0"	3'-0"x6'-8"	3'-0"x6'-8"	4'-0"x6'-0"	3'-0"x6'-8"	3'-6"x7'-0"

MARK#	DOOR#	HW SET	MODE	WIDTH	HEIGHT	DOOR THICKNESS	DOOR TYPE	FRAME TYPE	RATING	OUTSIDE LOCK	INSIDE LOCK	NOTES
D1	D1	4	SGL	4' 0"	6' 0"	2"	MTL	MTL	NONRTD	EXTERIOR		(E) GATE WITH (N) HARDWARE AND SECURITY PLATE AT EXIT DEVICE; SEE SHEET G4.6, DETAIL 10 (S/M)
D2	D2	1	SGL	3' 0"	6' 8"	1 3/4"	HMD	HMF	NONRTD	EXTERIOR	BOYS' LOCKER ROOM	LOUVERED DOOR WITH PANIC HARDWARE, SEE MECHANICAL DRAWINGS, SEE NOTE
D3	D3	1	SGL	3' 0"	6' 8"	1 3/4"	HMD	HMF	NONRTD	EXTERIOR	GIRLS' LOCKER ROOM	LOUVERED DOOR WITH PANIC HARDWARE, SEE MECHANICAL DRAWINGS, SEE NOTE
D4	D4	2	SGL	3' 0"	7' 0"	1 3/4"	HMD	HMF	NONRTD	EXTERIOR	CHECK ROOM	SEE NOTE
D5	D5	3	PR	5' 0"	6' 8"	1 3/4"	HMD	HMF	NONRTD	EXTERIOR	CHECK ROOM	JANITOR
D6	D6	2	SGL	3' 0"	7' 0"	1 3/4"	HMD	HMF	NONRTD	EXTERIOR	CHECK ROOM	SEE NOTE
D7	D7	5	SGL	3' 0"	6' 8"	1 3/4"	HMD	HMF	NONRTD	EXTERIOR	BOYS' LOCKER ROOM	PANIC HARDWARE ON INTERIOR, NO EXTERIOR HARDWARE, SEE NOTE
D8	D8	5	SGL	3' 0"	6' 8"	1 3/4"	HMD	HMF	NONRTD	EXTERIOR	GIRLS' LOCKER ROOM	PANIC HARDWARE ON INTERIOR, NO EXTERIOR HARDWARE, SEE NOTE
D9	D9	4	SGL	4' 0"	6' 0"	2"	MTL	MTL	NONRTD	EXTERIOR	EQUIPMENT STORAGE	(N) GATE WITH (N) HARDWARE AND SECURITY PLATE AT EXIT DEVICE
D10	D10	6	SGL	3' 0"	6' 8"	1 3/4"	HMD	HMF	NONRTD	EQUIPMENT STORAGE	MECHANICAL ROOM	(N) LOUVERED DOOR IN (E) OPENING; VERIFY DIMENSIONS IN FIELD
D11	D11	6	SGL	3' 0"	7' 0"	1 3/4"	HMD	HMF	NONRTD	EXTERIOR	MECHANICAL ROOM	(N) LOUVERED DOOR IN (E) OPENING; VERIFY DIMENSIONS IN FIELD

NOTE:  
SEE DETAIL D6 / SHEET A7.2 FOR THRESHOLD

ACCESSORY/EQUIPMENT SCHEDULE

SYMBOL	ITEM	MANUFACTURER	MODEL	NOTES
A	2-TANK FILTER SYSTEM	PARAGON AQUATICS	STARK S512	SEE NOTE 1
B	BOILER	RAYPAK	HI-DELTA P-1802C	SEE NOTE 2
C	WATER HEATER		SEE SHEET P1.2	
D	CHLORINATION SYSTEM	PULSAR	140	SEE NOTE 1
E1	CHALK RAIL	ARCH HARDWARE	CR42	6' LONG CHALK RAIL WITH POLISHED RECTANGULAR PENCIL STOP, SEE NOTE 4
E2	LARGE MIRRORS	AMERICAN SPECIALITIES	0620-6036 - 60" x 36"	WITHIN LOCKER AREA, MOUNT VERTICALLY WITH BOTTOM EDGE OF REFLECTING SURFACE AT +18" AFF. AT HALL TO LOCKER AREA, MOUNT HORIZONTALLY, MAX. 36" AFF. TO REFLECTIVE SURFACE; SEE NOTE 4
E3	MIRRORS AT LAVATORIES	AMERICAN SPECIALITIES	0620-2436 - 24" W x 36" H	MOUNT W/ BOTTOM EDGE OF REFLECTING SURFACE AT +40" AFF. MAX.; SEE NOTE 4
F	LOCKERS	PENCO	INVINCIBLE II DEFIANT SFL 6A249	12" WIDE x 18" DEEP x 72" HIGH, DOUBLE-TIER VENTED LOCKER WITH SINGLE POINT LATCH, AFIX ACCESSIBILITY LABEL ON ACCESSIBLE LOCKER, SEE NOTES 3 AND 6
G1	BENCH	PENCO	TOP: 9602; PEDESTALS: 60822H020	6' LONG x 9-1/2" DEEP, ANCHOR TO CONCRETE SLAB; SEE NOTE 6
G2	BENCH	PENCO	BENCH: 9632; WITH BACK REST BRACKETS: 6ACXHP6 1H; PEDESTALS: 60822H020; INCLUDE ACCESSIBILITY LABEL	4' LONG x 20" DEEP BENCH WITH ADA BRACKET FOR 18" BACKREST, ANCHOR TO CONCRETE SLAB, HEIGHT OF BENCH SEAT 17" MIN. - 19" MAX.; SEE NOTE 6
H	PORTABLE POOL LIFT			EXISTING; SALVAGE AND DELIVER TO OWNER
J	CABINET	LYON	FF1091	36" WIDE x 24" DEEP x 78" HIGH, STORAGE CABINET W/ 4 ADJUSTABLE SHELVES, SEE NOTE 3 AND NOTE 4
K	CHANGING TABLE			EXISTING; SALVAGE AND DELIVER TO OWNER
L	DEFIBRILLATOR			SALVAGED AND RE-INSTALL BY CONTRACTOR
M	STORAGE CUBBY	BRADLEY	LENOX CUBBY	(3) 5-TIER CUBBY UNITS, 60" TALL WITH FLAT TOP PANEL AND (2) END PANELS, SEE NOTE 1 AND NOTE 4
N	ROBE HOOK	AMERICAN SPECIALITIES	T51	SEE NOTE 4
P1	HAND DRYER	AMERICAN SPECIALITIES	O199-1-92	TOUCHLESS CONTROLS(TYP. AT LAVATORIES ONLY); SEE NOTE 4
P2	HAIR DRYER	EXCEL	RHT6-W	PUSH BUTTON, SEMI-RECESSED (TYP. AT LOCKER AREAS ONLY); SEE NOTE 4
P3	SANITARY NAPKIN DISPOSAL UNIT	OWNER FINISHED, CONTRACTOR INSTALLED	HOSPEGO ND-1E	SEE NOTE 4
Q1	FIRE EXTINGUISHER IN CABINET	KIDDE	PRO PLUS 10 MP 468002 IN 468047 POTTER ROEMER CABINET W/ LOCK	ABC/DRY CHEMICAL, 10 LB.; SEE NOTE 5
Q2	FIRE EXTINGUISHER	KIDDE	PRO PLUS 10 MP 468002	ABC/DRY CHEMICAL, 10 LB., WALL MOUNTED; SEE NOTE 5
R	LAVATORY	SEE PLUMBING DRAWINGS	SEE PLUMBING DWGS.	
S	CURTAIN	HEALTHCARE CURTAINS	5H x 17W CURTAIN, "REEF/HERON", NO MESH	ANTI-MICROBIAL, CEILING TRACK MOUNTED; SEE SPECIFICATION SECTION 12 22 00
T	FIRST AID KIT			SALVAGED AND RE-INSTALL BY CONTRACTOR
U	CURTAIN TRACK	HEALTHCARE CURTAINS	5000 SERIES TC-2 TRACK	CEILING HUNG; SEE DETAIL J15 / A7.1 AND SPECIFICATION SECTION 12 22 00
V	HI-LO DRINKING FOUNTAIN	SEE PLUMBING DRAWINGS	SEE PLUMBING DWGS.	
W	SHOWER SPRAY AND CONTROLS	SEE PLUMBING DRAWINGS	SEE PLUMBING DWGS.	
X1	MOP SINK	SEE PLUMBING DRAWINGS	SEE PLUMBING DWGS.	
X2	MOP HOLDER RACK	AMERICAN SPECIALITIES	0796-4	36" LONG, 4 MOP HOLDER, SURFACE MOUNTED; SEE NOTE 4
Y	CHEMICAL CONTROL SYSTEM	CHEMTROL	FC2100	ORP/pH CONTROL WITH 8-LINE LCD DISPLAY AND CHLORINE SENSOR OPTION; SEE SPECIFICATION SECTION 13
Z	WATER CLOSET W/ CONTROLS	SEE PLUMBING DRAWINGS	SEE PLUMBING DRAWINGS	
AA	TOILET PARTITION	HADRIAN MANUFACTURING	SOLID PLASTIC HEADRAIL BRACED	COLOR: 22T PAISLEY; SEE SPECIFICATION SECTION 10 21 13.19
BB	URINAL SCREEN	HADRIAN MANUFACTURING	SOLID PLASTIC WALL MOUNTED SCREEN	COLOR: 22T PAISLEY; SEE SPECIFICATION SECTION 10 21 13.19
CC	URINAL	SEE PLUMBING DRAWINGS	SEE PLUMBING DRAWINGS	
DD1	WATER CLOSET GRAB BAR (REAR)	AMERICAN SPECIALITIES	3700 (TYPE 1) 36" LONG	SEE DETAIL G3 / A7.3 AND NOTE 4
DD2	WATER CLOSET GRAB BAR (SIDE)	AMERICAN SPECIALITIES	3700 (TYPE 1) 42" LONG	SEE DETAIL G3 / A7.3 AND NOTE 4
EE	TOILET PAPER DISPENSER	OWNER FINISHED, CONTRACTOR INSTALLED	GPC 59209	SEE NOTE 4
FF	SEAT COVER DISPENSER	OWNER FINISHED, CONTRACTOR INSTALLED	HOSPEGO HS-1-2	SEE NOTE 4
GG	SHOWER GRAB BARS	AMERICAN SPECIALITIES	3700 (TYPE 50)	L-SHAPED CONFIGURATION (24"x36"), SEE DETAIL G3 A7.3 AND NOTE 4
HH	FOLDING SHOWER SEAT	AMERICAN SPECIALITIES	8206-28	L-SHAPED PHENOLIC FOLD-UP SHOWER SEAT; SEE NOTE 4 AND J3/A7.3
JJ	SOAP DISPENSER	OWNER FINISHED, CONTRACTOR INSTALLED	PROLINE CURVE 1000	SEE NOTE 4
KK	DRINKING FOUNTAIN GUARD RAIL	AMERICAN SPECIALITIES	3700 (TYPE 75)	SEE NOTE 4
LL	EYEWASH STATION	SEE PLUMBING DRAWINGS		SEE PLUMBING DRAWINGS
MM	EMERGENCY SHOWER	SEE PLUMBING DRAWINGS		SEE PLUMBING DRAWINGS
NN	HVAC EQUIPMENT	SEE MECHANICAL DRAWINGS		SEE MECHANICAL DRAWINGS
QQ	UNDER LAVATORY GUARD			SEE NOTE 4

NOTES:  
 1. CONTACT LINCOLN AQUATICS, JIM SETTLE (916) 781-7664  
 2. SEE SHEETS M3.1, M3.2 AND SPECIFICATIONS DIV 23  
 3. ANCHOR TO WALL, SEE SHEET A7.3, DETAILS A9 AND G15  
 4. SEE SPECIFICATION SECTION 10 28 00  
 5. SEE SPECIFICATION SECTION 10 44 00  
 6. SEE SPECIFICATION SECTION 10 50 80 See detail J6/A7.3



Revisions  
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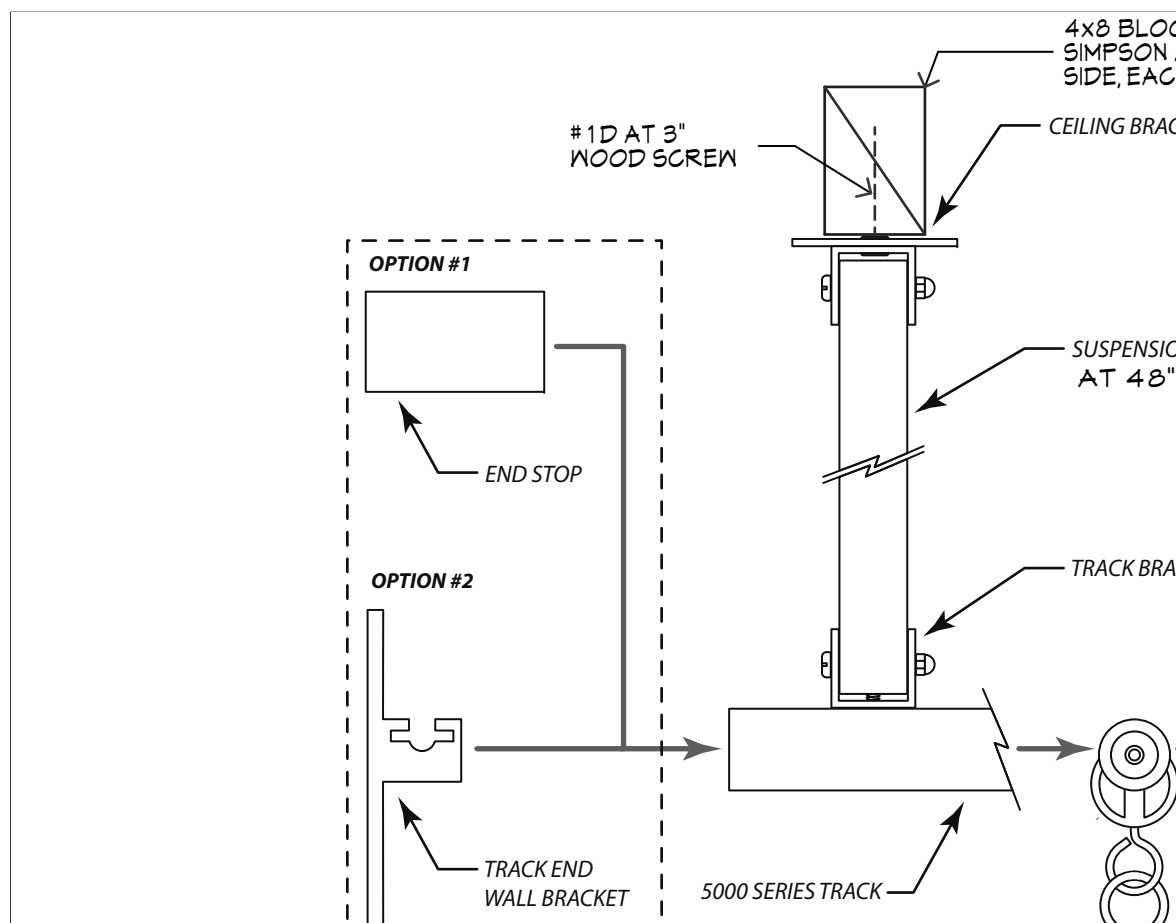
POOL BUILDING RENOVATION  
 for  
 NEVADA JOINT UNION HIGH SCHOOL DISTRICT  
 NEVADA JOINT UNION HIGH SCHOOL, GRASS VALLEY, CA

10/10/18  
 17-429

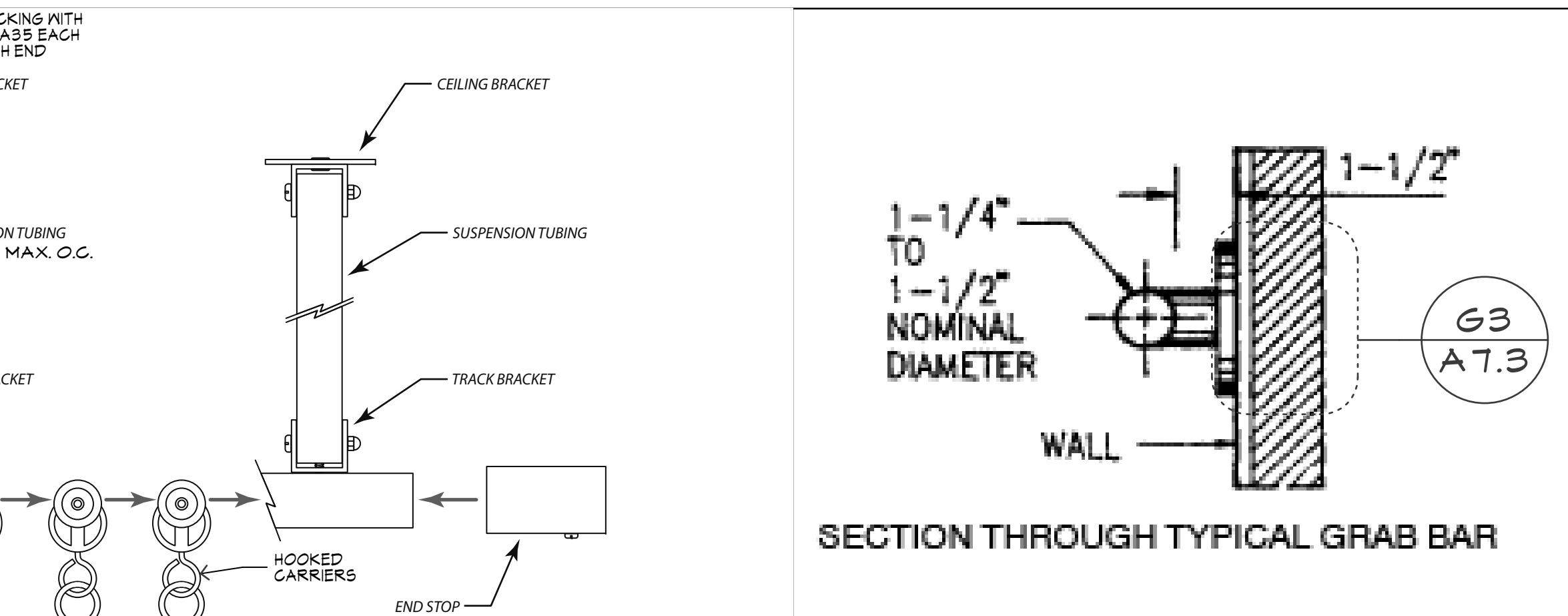
SCHEDULES  
 A6.1

FILE NUMBER: 18-03  
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 DIVISION OF THE STATE ARCHITECT  
 02-116957  
 AC, BM, FLS, MR, SS, PVL  
 DATE: 10/11/2018

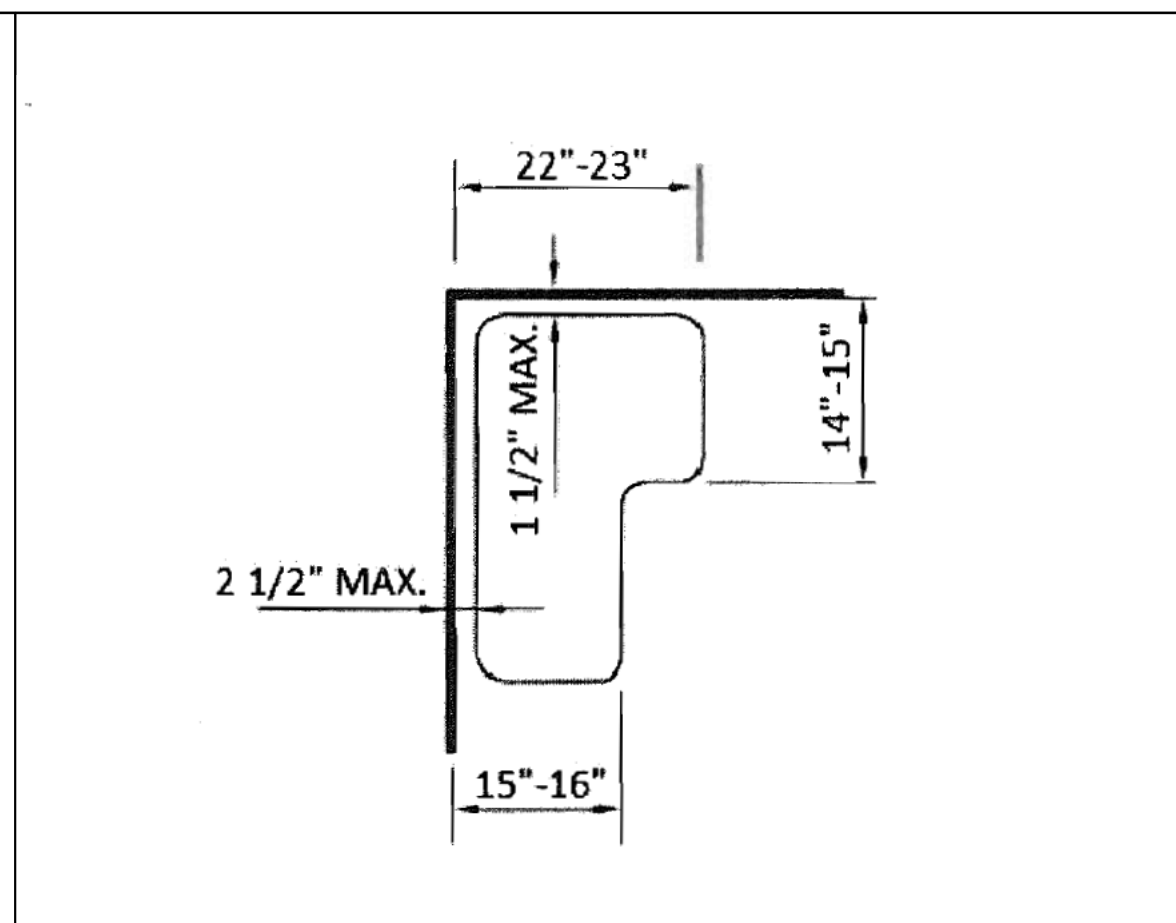




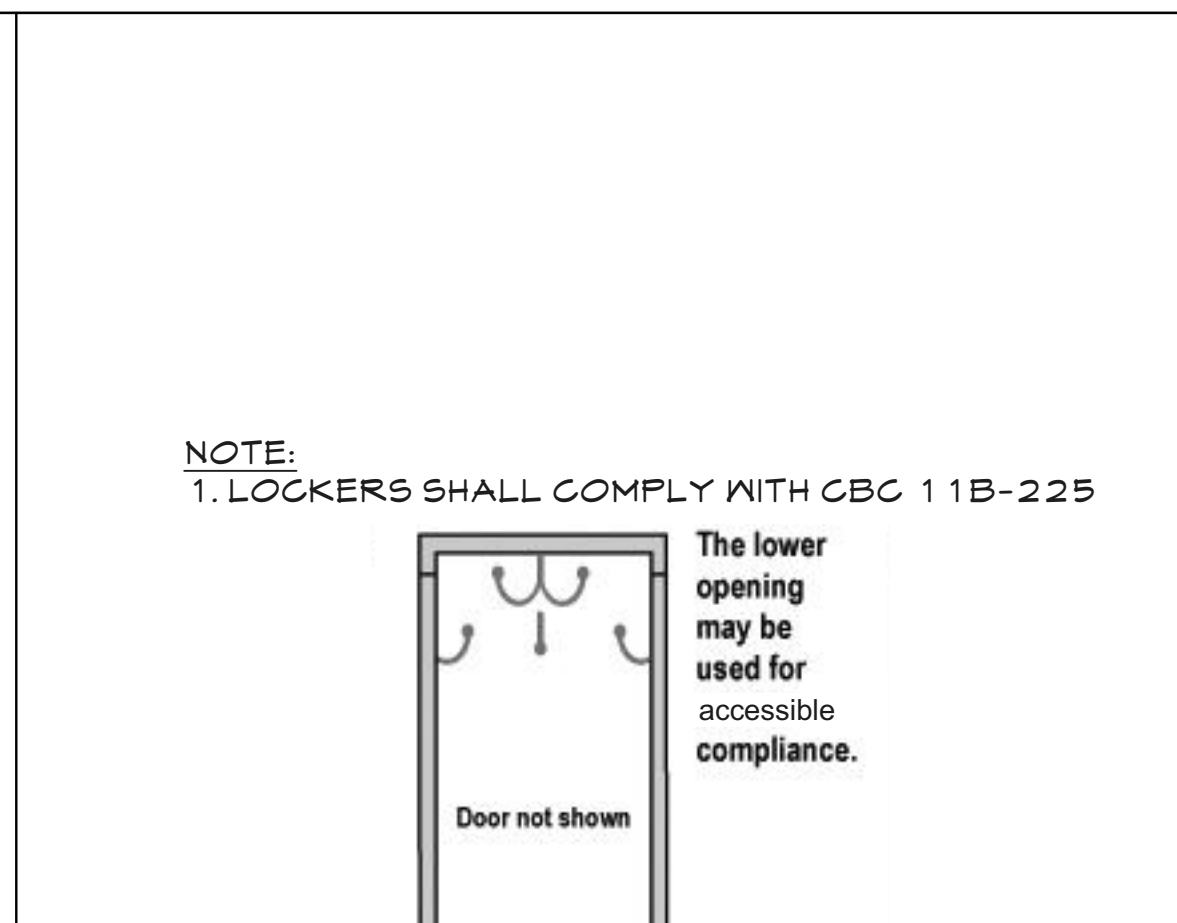
J15 CURTAIN TRACK ATTACHMENT



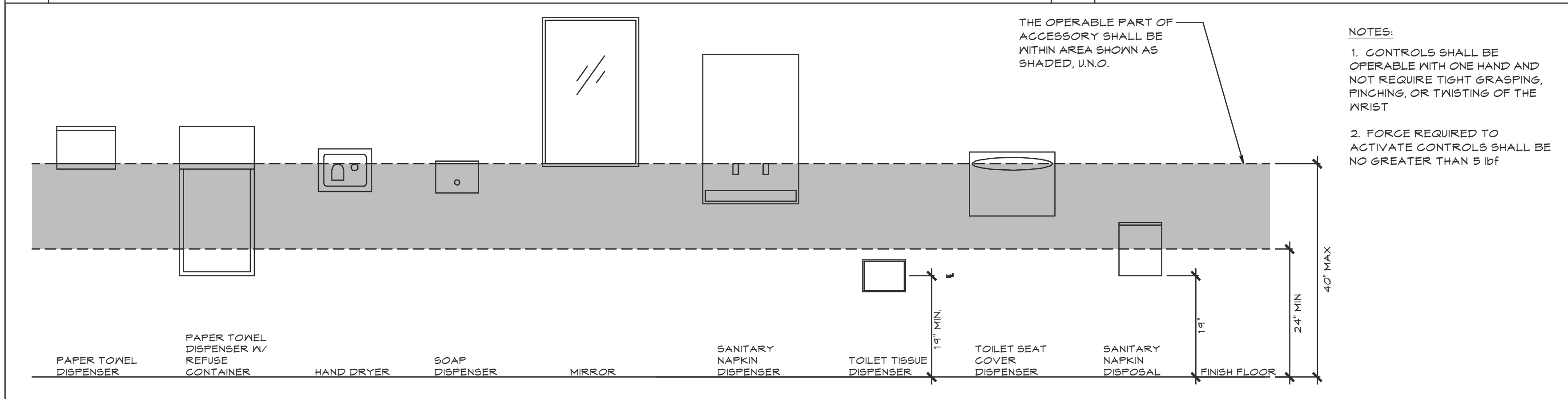
J9 GRAB BAR SECTION NO SCALE



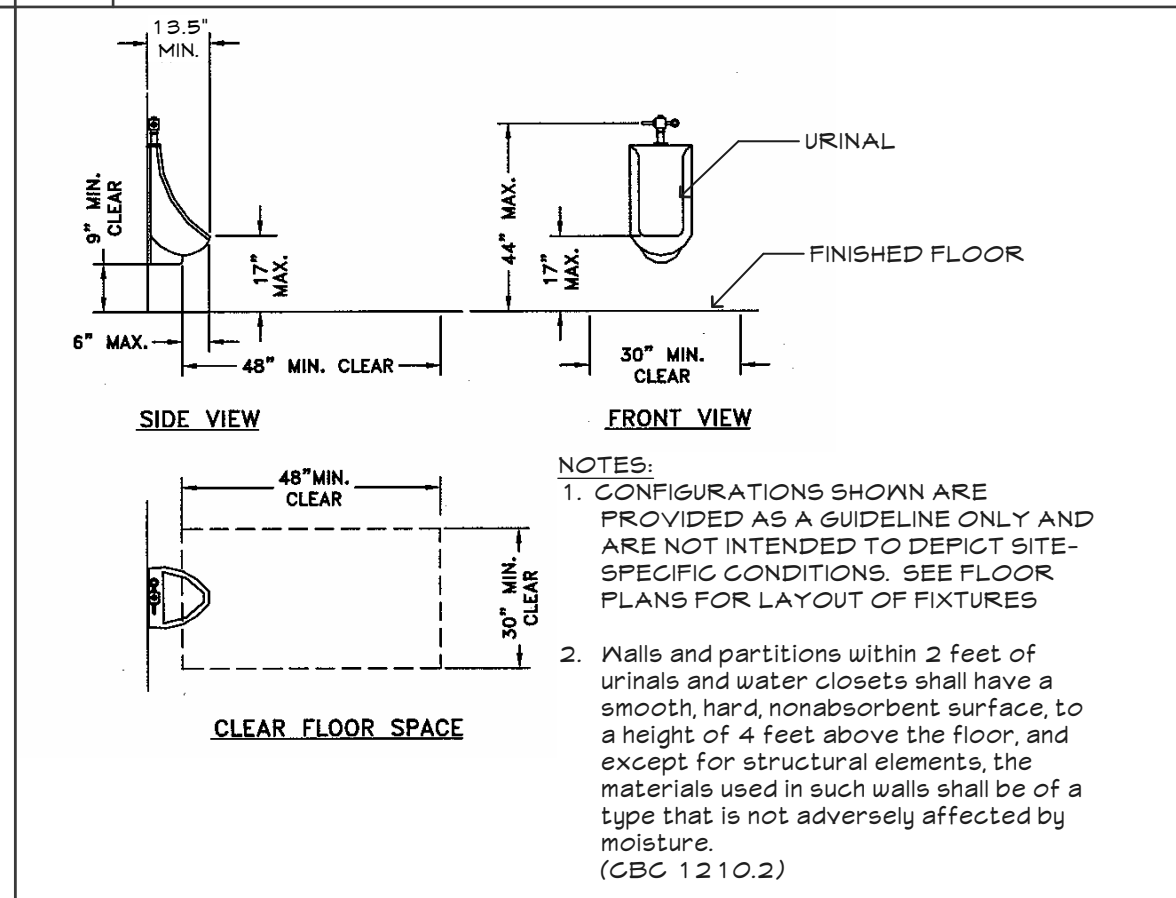
J6 SHOWER SEAT NO SCALE



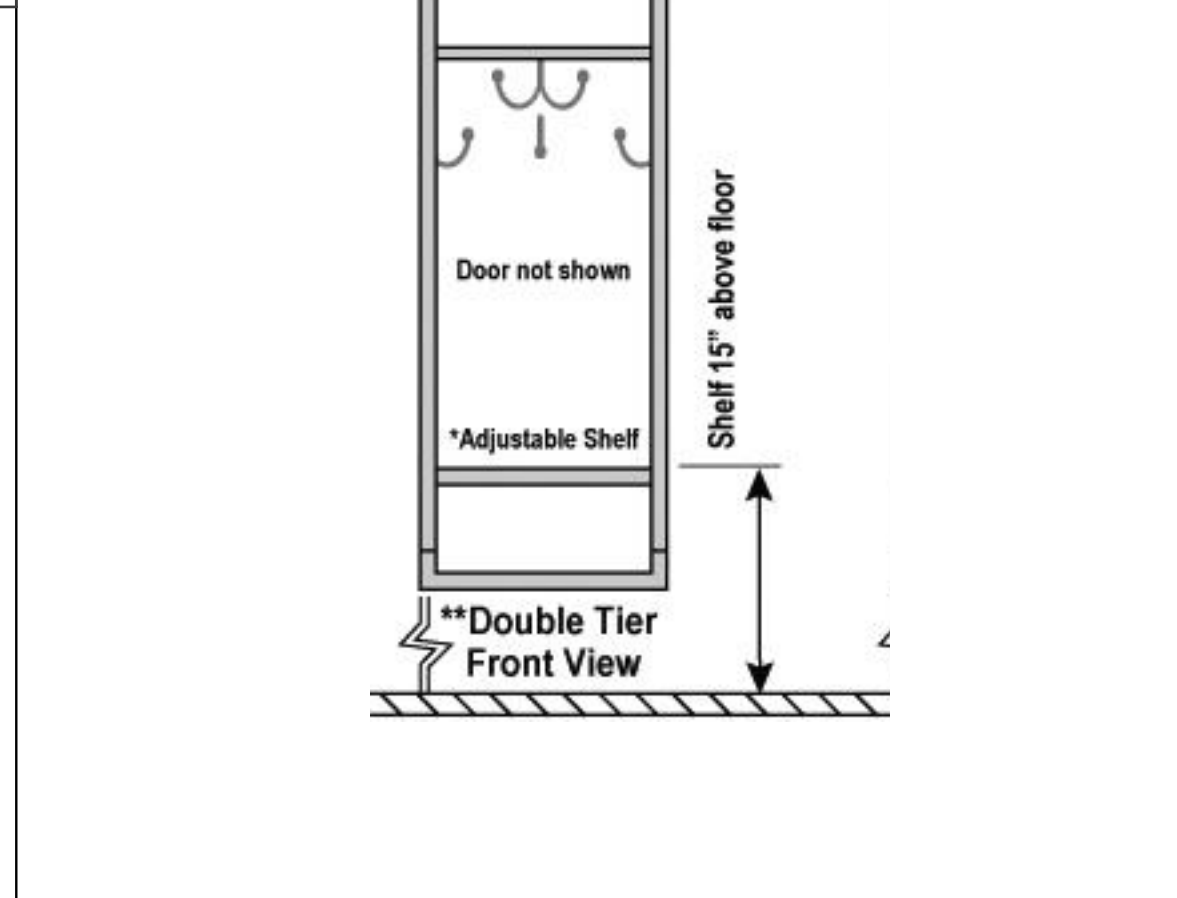
G3 ACCESSIBLE LOCKER NO SCALE



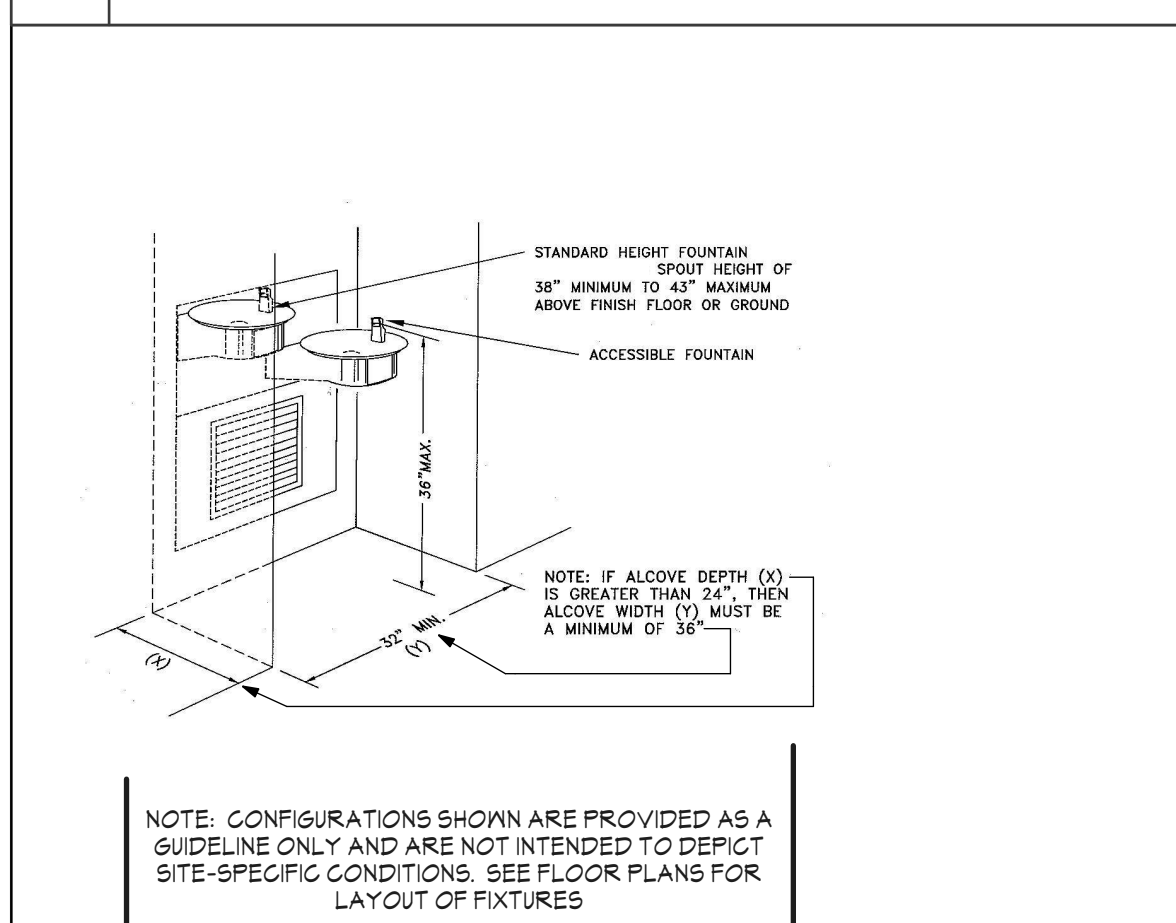
G15 RESTROOM ACCESSORY MOUNTING HEIGHTS 3/4\"/>



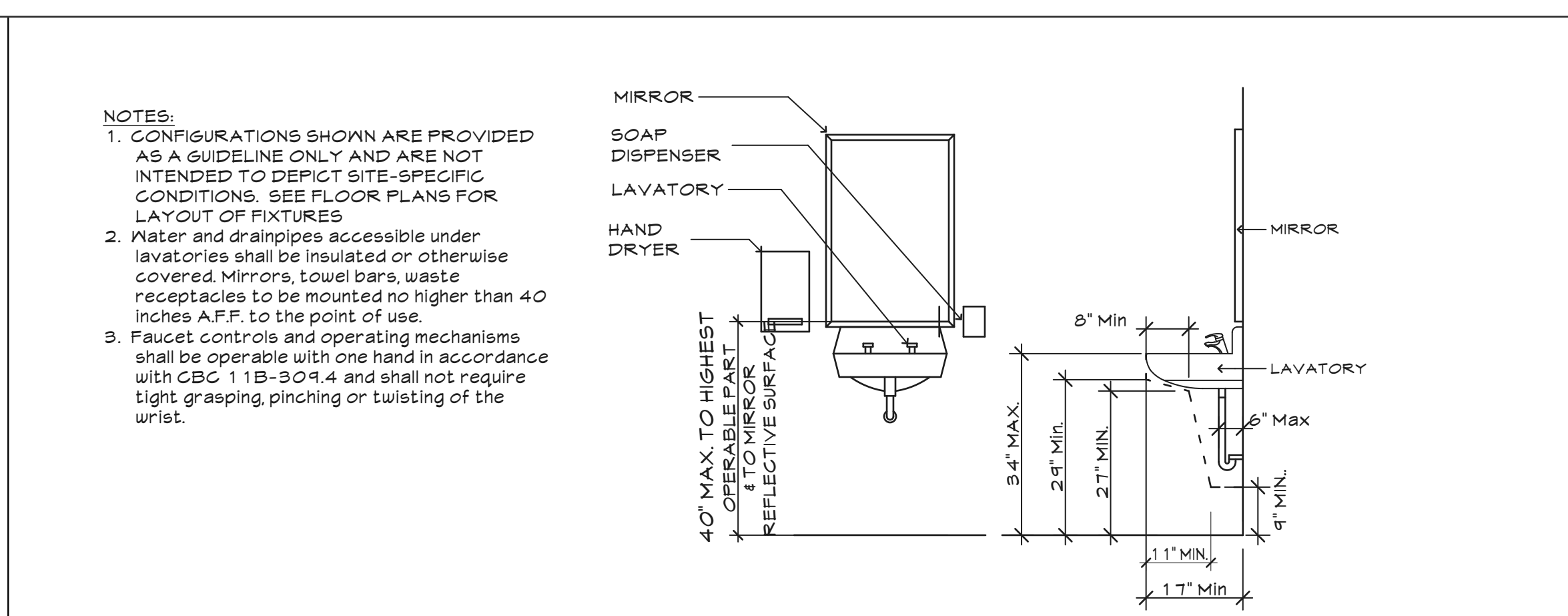
G6 ACCESSIBLE URINAL CLEARANCES NO SCALE



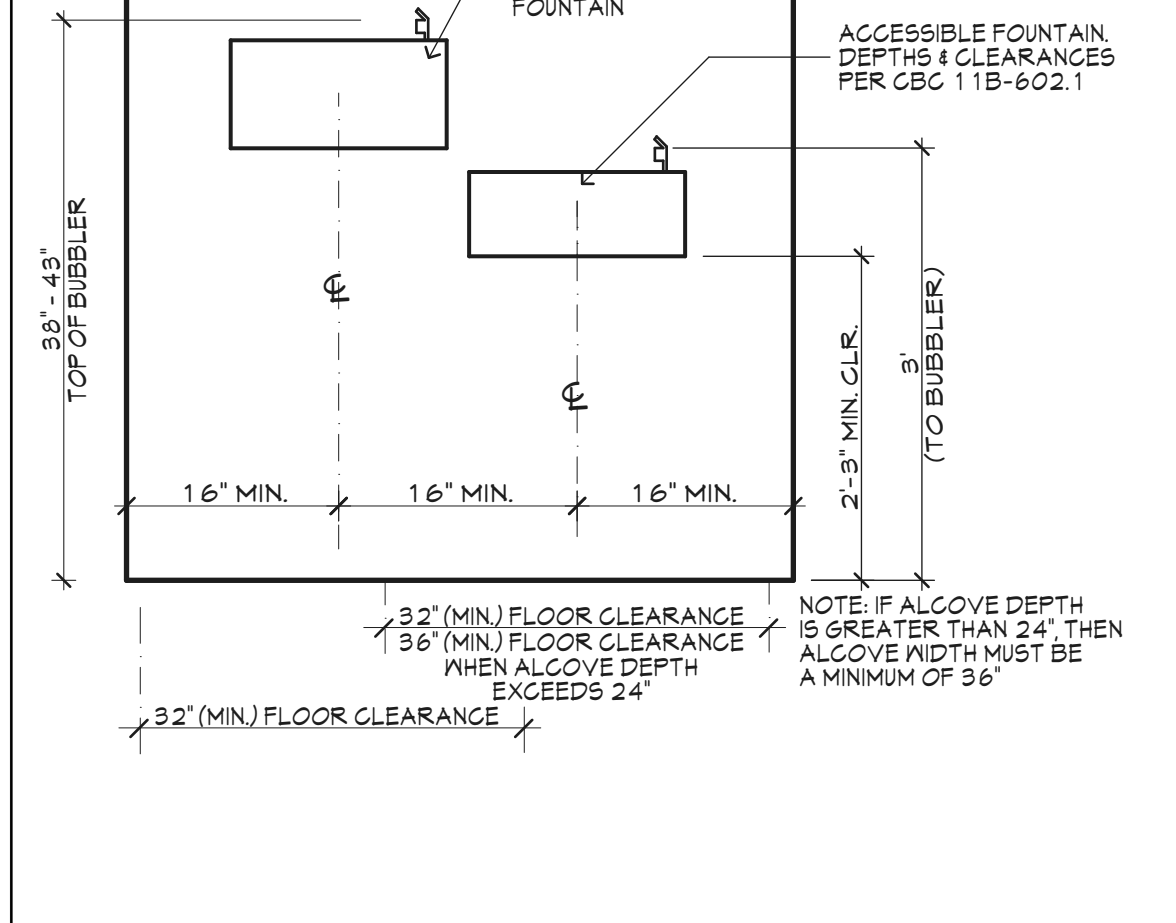
G3 ACCESSIBLE LOCKER NO SCALE



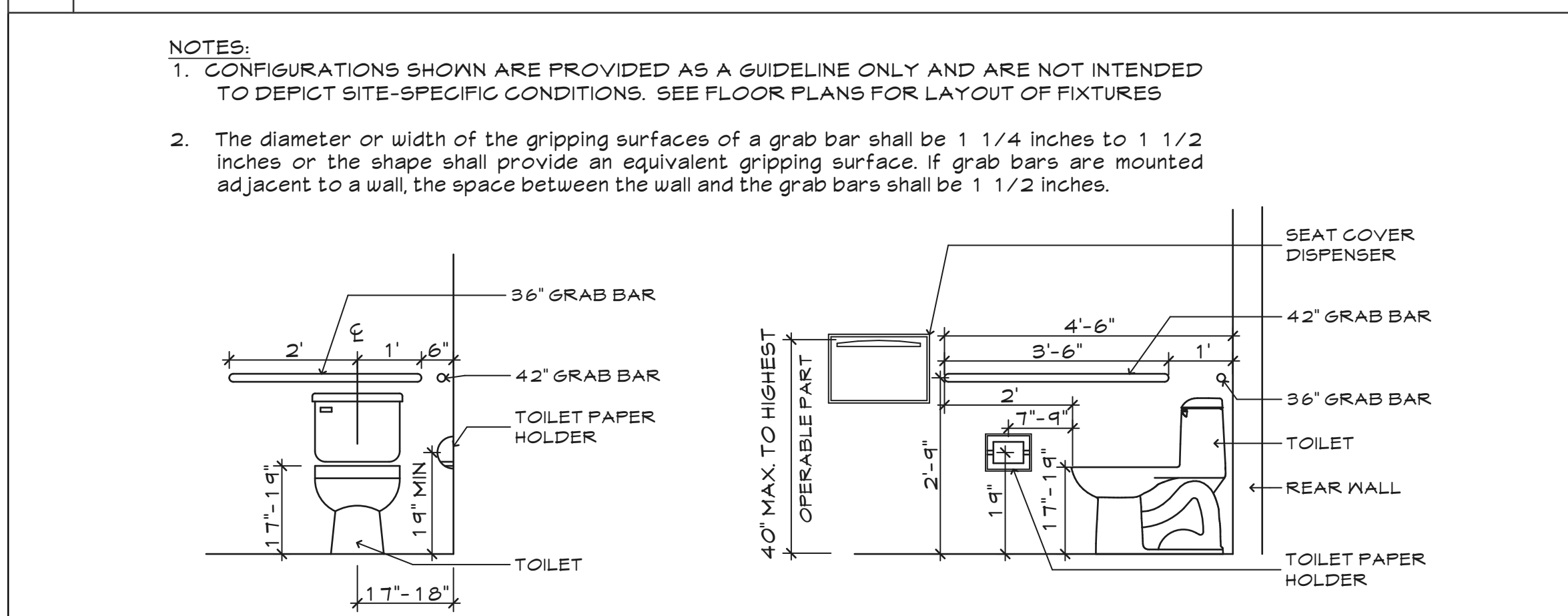
A15 HI-LO DRINKING FOUNTAIN 3/4\"/>



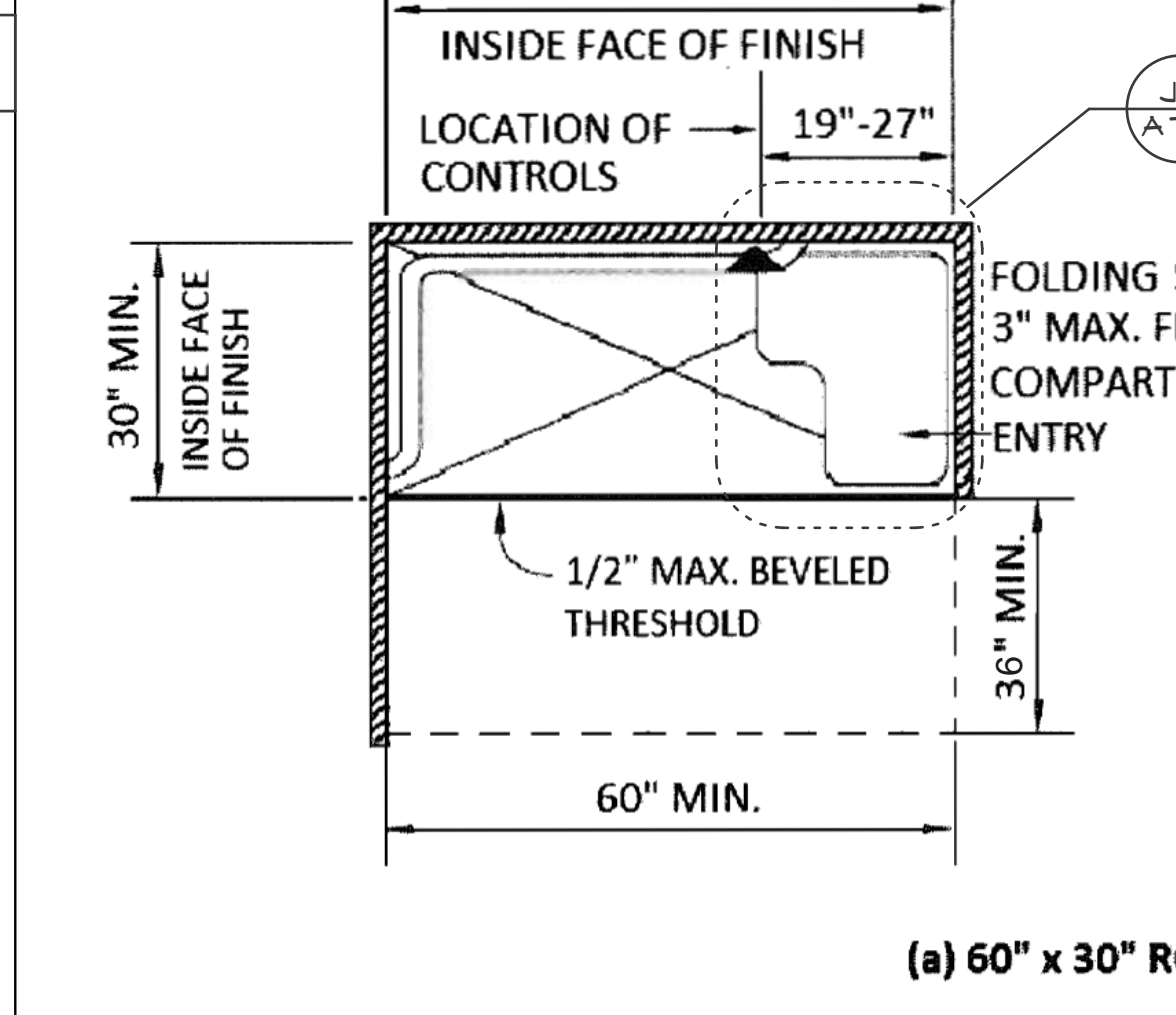
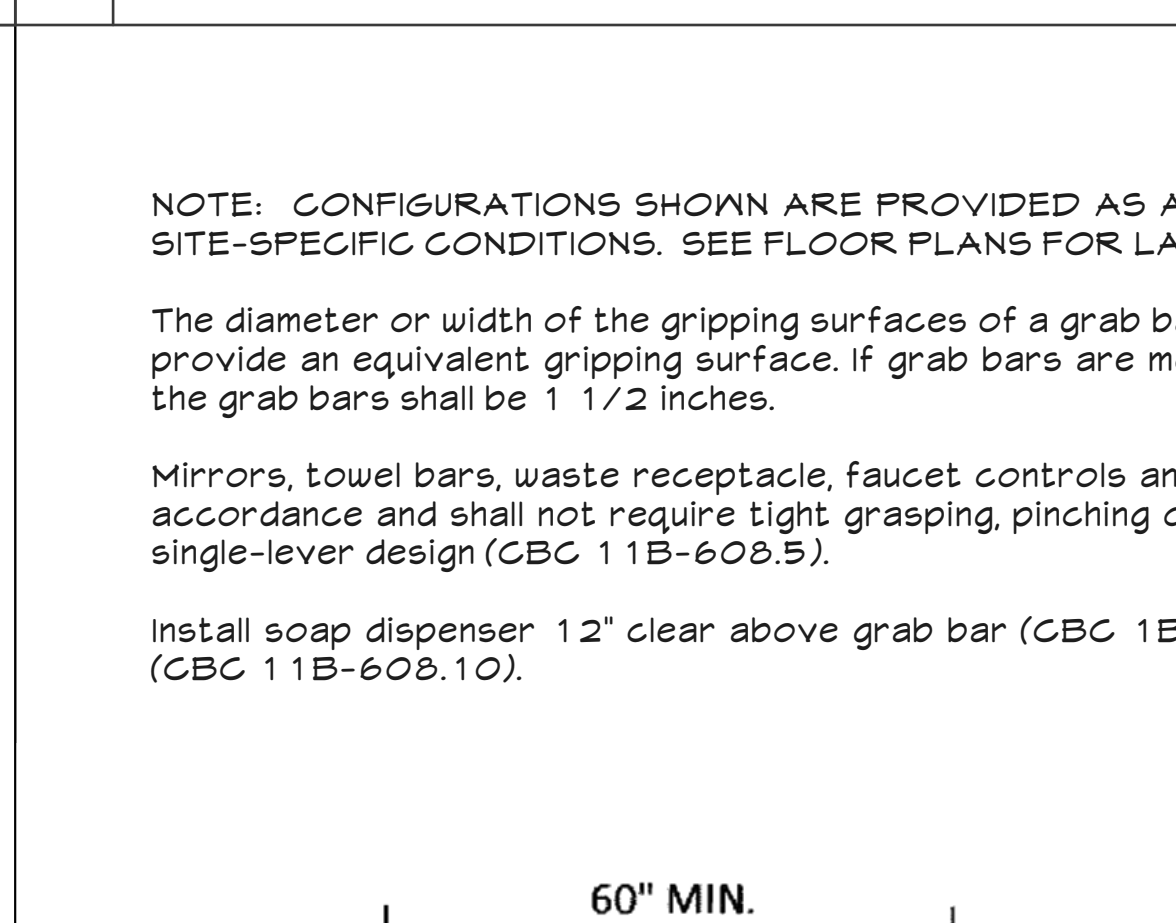
D12 ACCESSIBLE LAVATORY 1/2\"/>



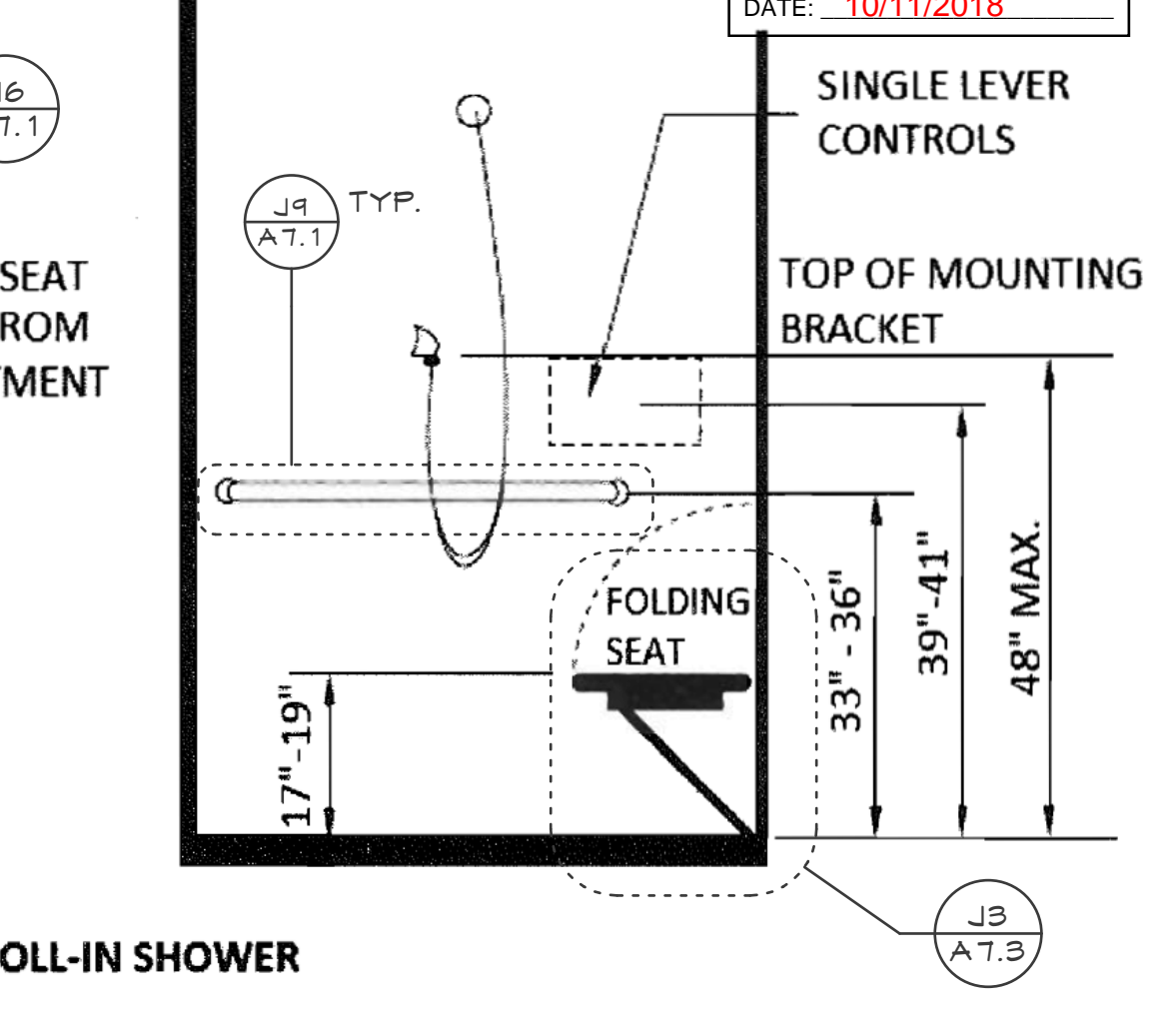
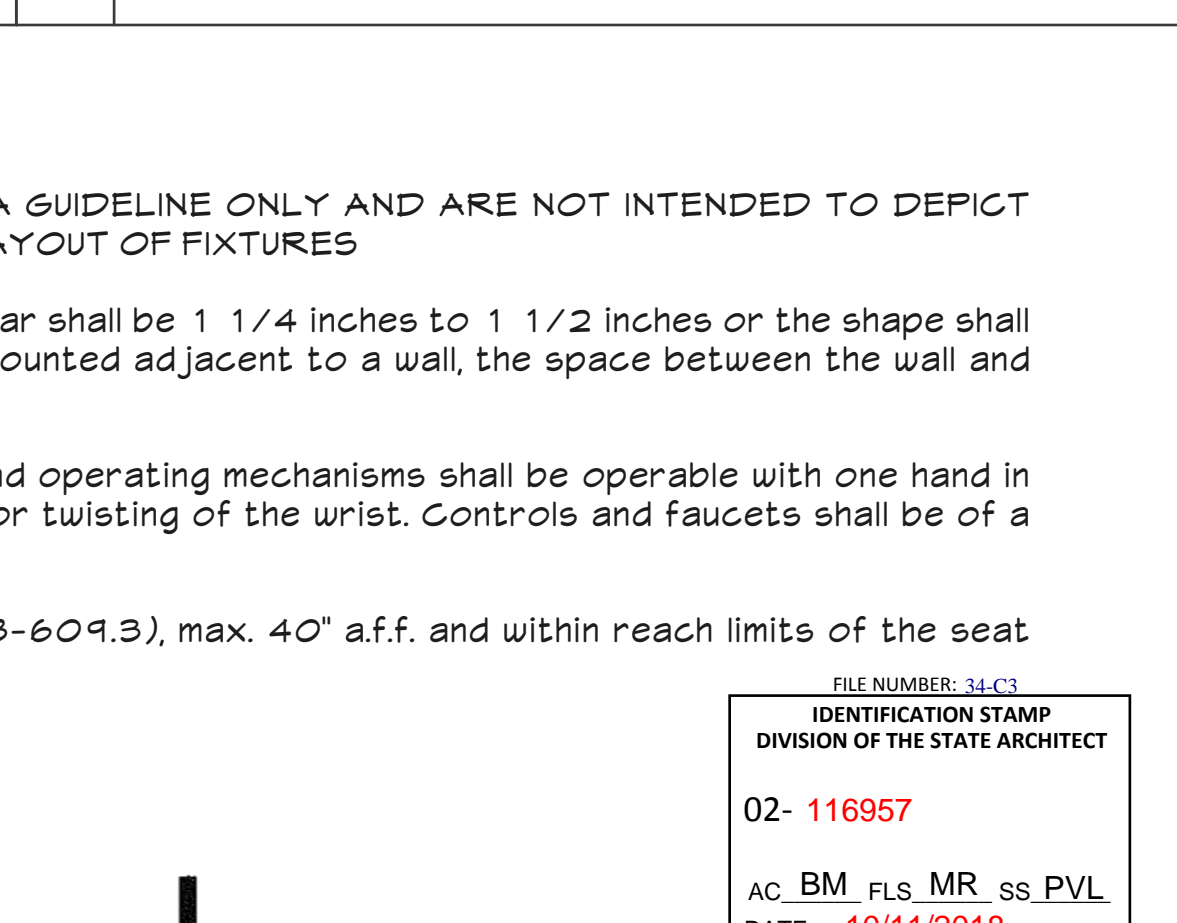
A12 TYPICAL ACCESSIBLE TOILET 1/2\"/>



A6 TYPICAL ACCESSIBLE SHOWER NO SCALE



A6 TYPICAL ACCESSIBLE SHOWER NO SCALE



A6 TYPICAL ACCESSIBLE SHOWER NO SCALE



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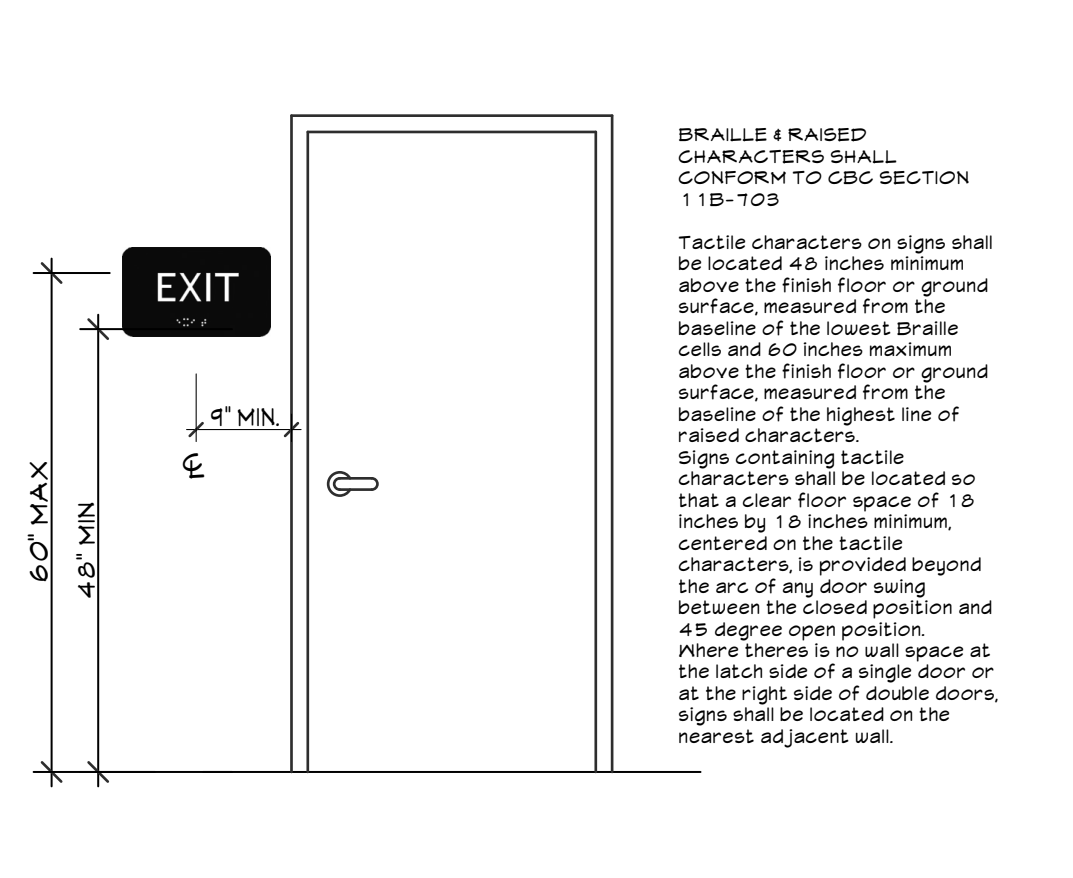
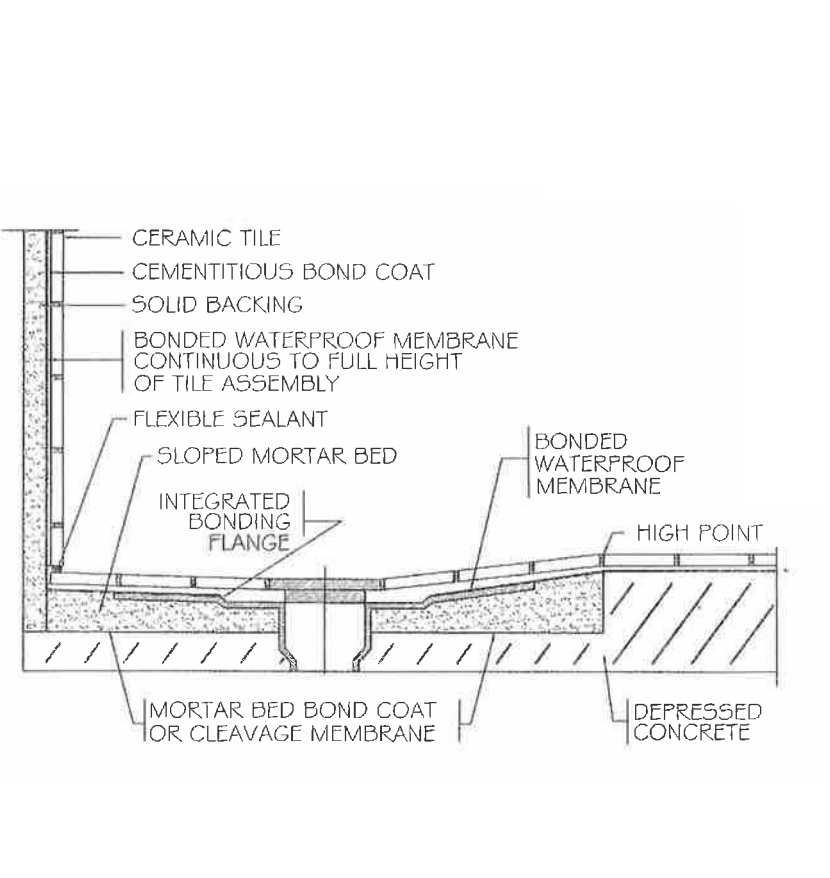
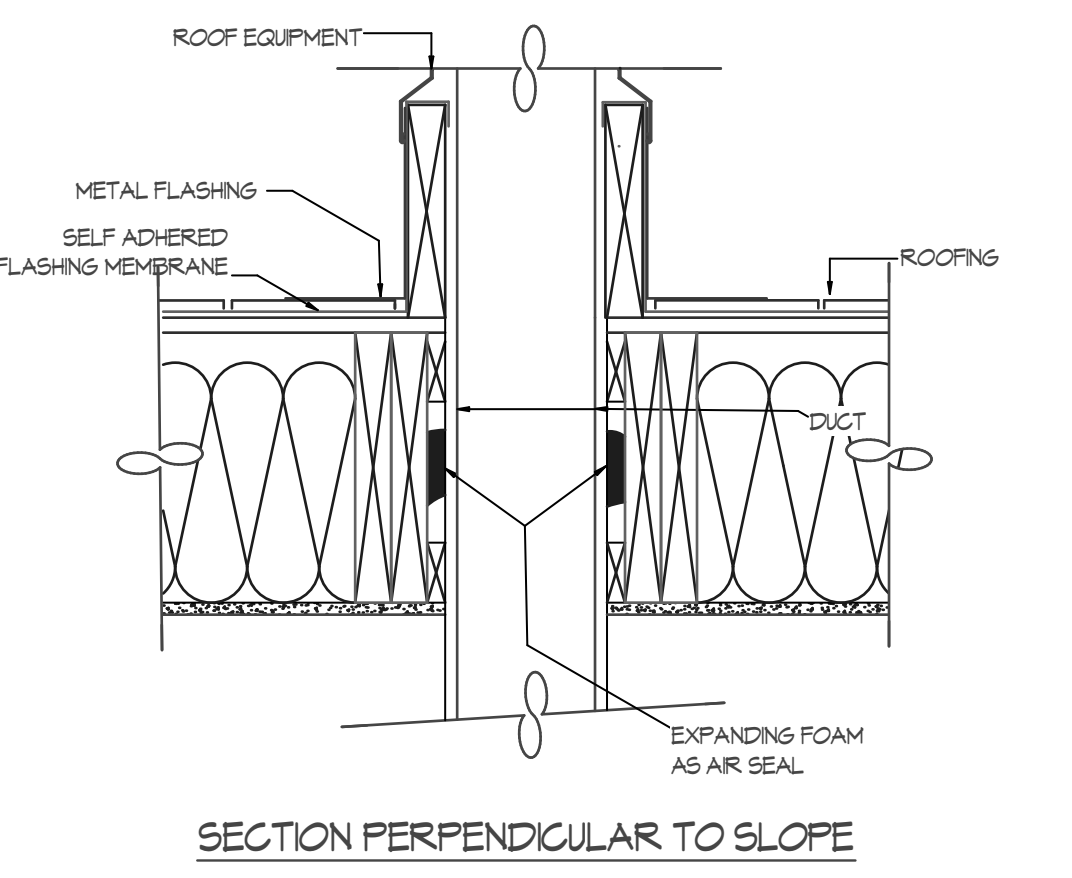
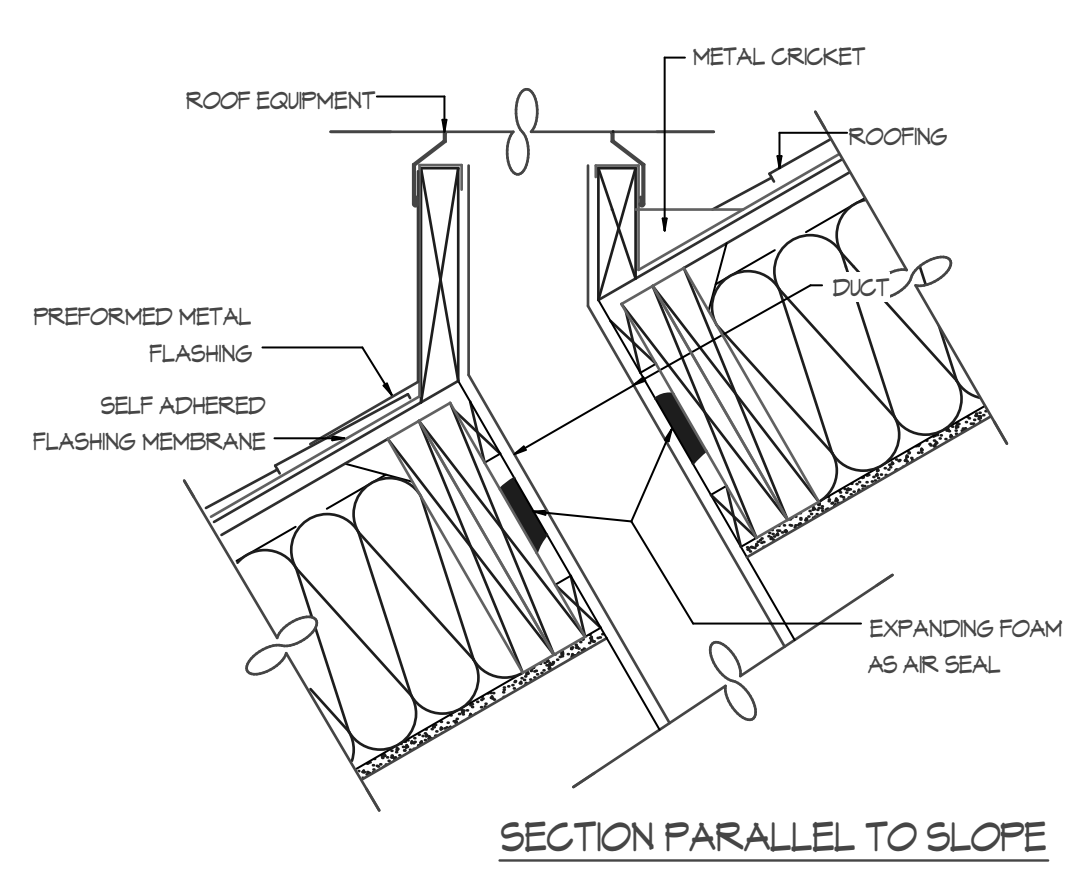
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**POOL BUILDING RENOVATION**  
for  
**NEVADA JOINT UNION HIGH SCHOOL DISTRICT**  
NEVADA JOINT UNION HIGH SCHOOL, GRASS VALLEY, CA

DATE	10/10/18
SCALE	AS NOTED
NO.	17-429

DETAILS  
**A7.1**

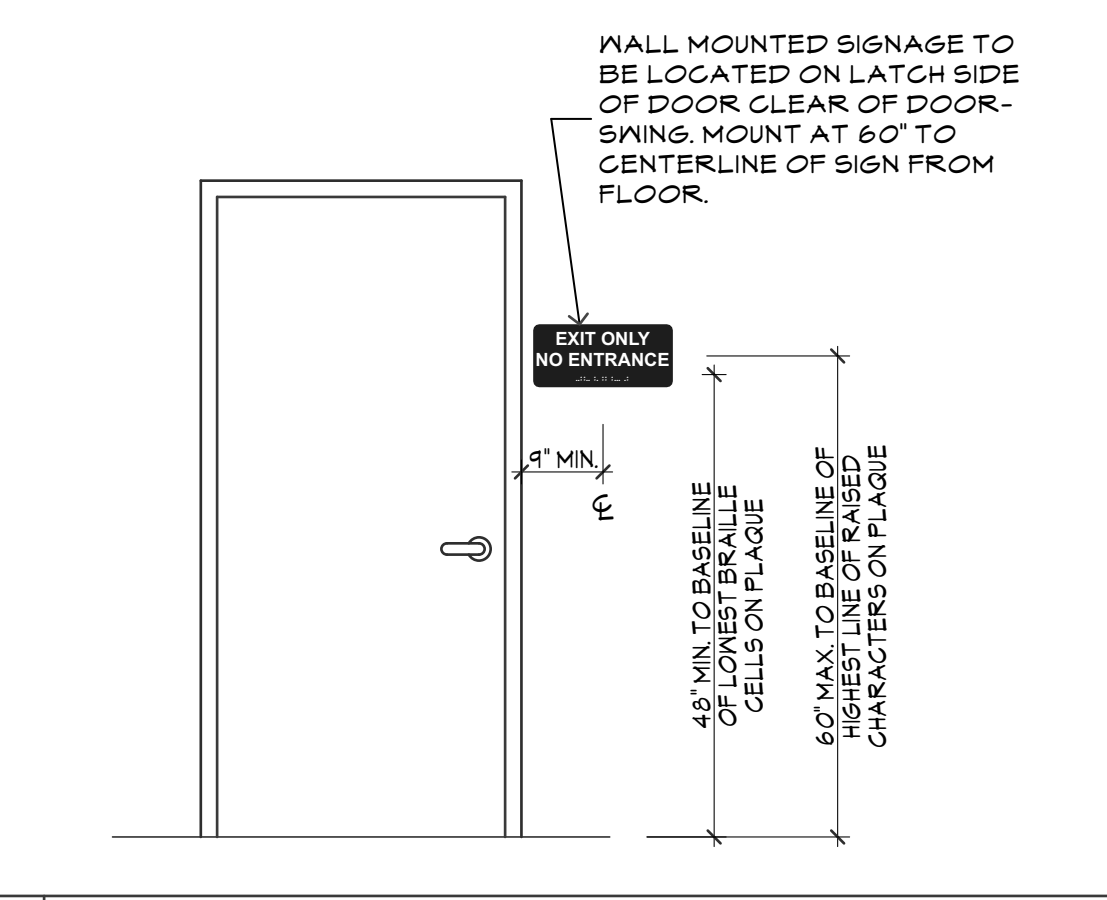
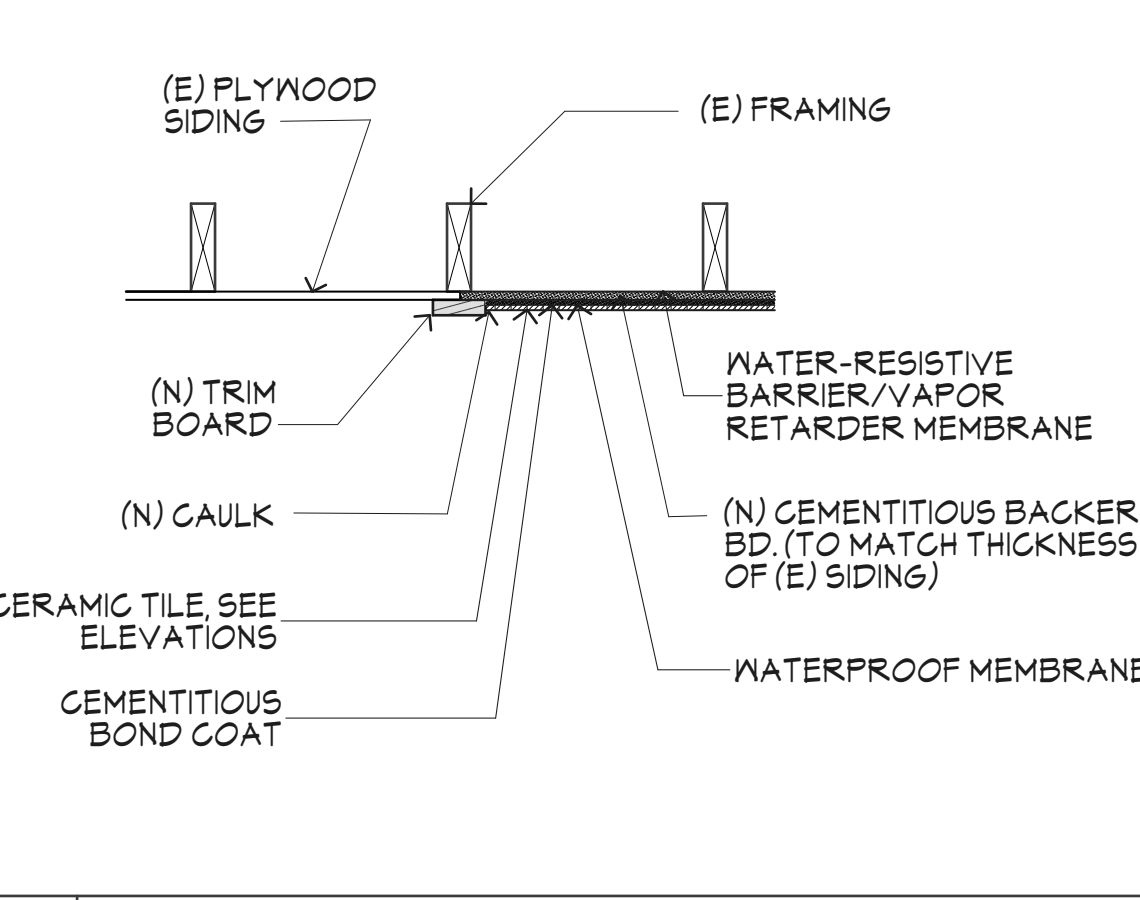
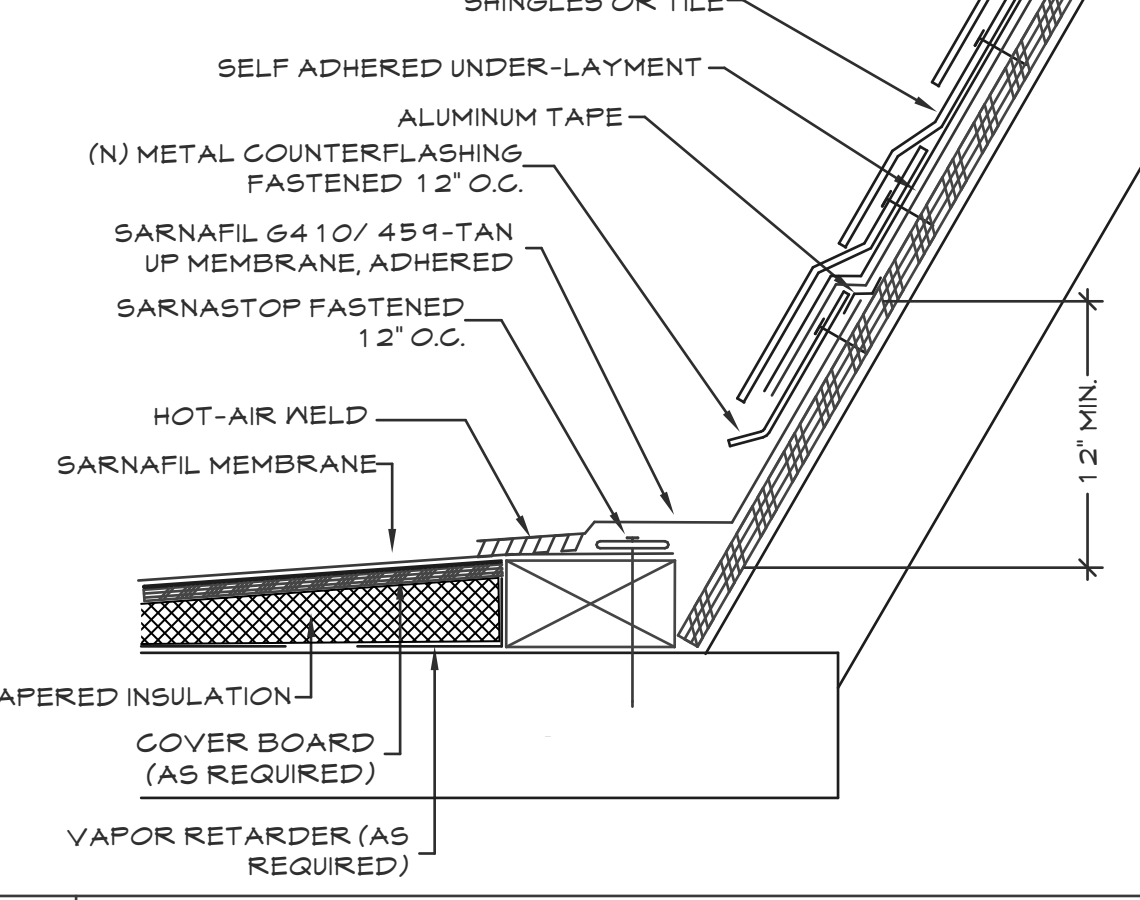
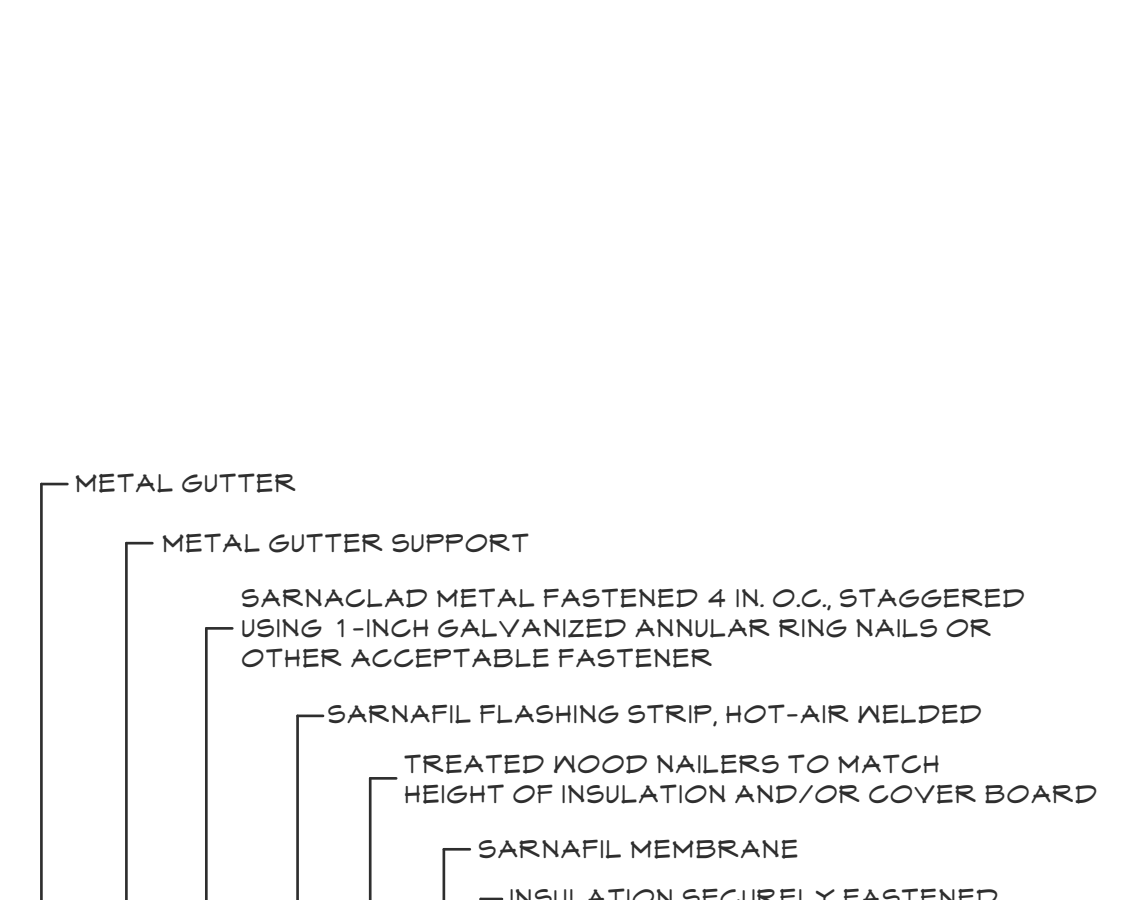
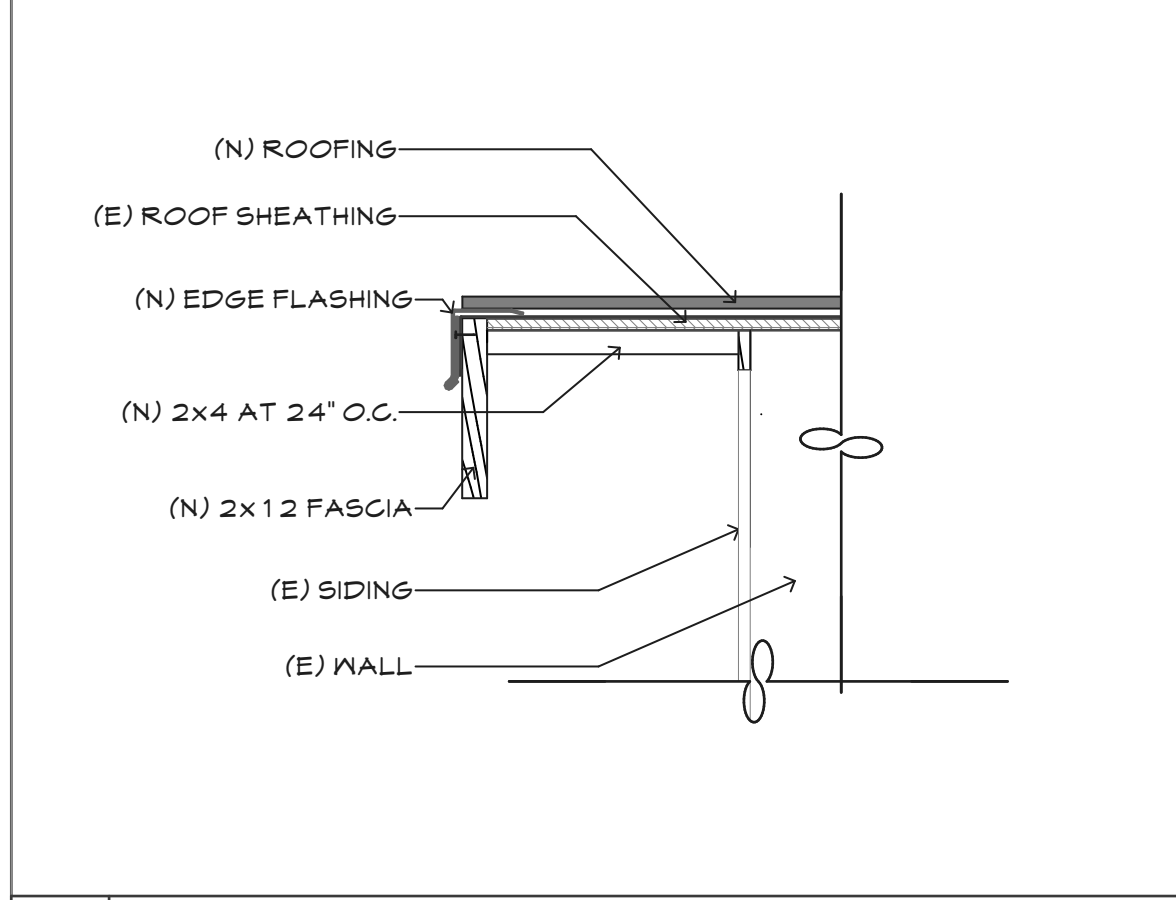
L  
K  
J  
I  
H  
G  
F  
E  
D  
C  
B  
A



J12 CURB AT EXHAUST LOUVER 1 1/2" = 1'-0"

J6 SHOWER RECEPTOR 1" = 1'-0"

J3 TACTILE EXIT SIGNAGE AT EXTERIOR DOOR NO SCALE

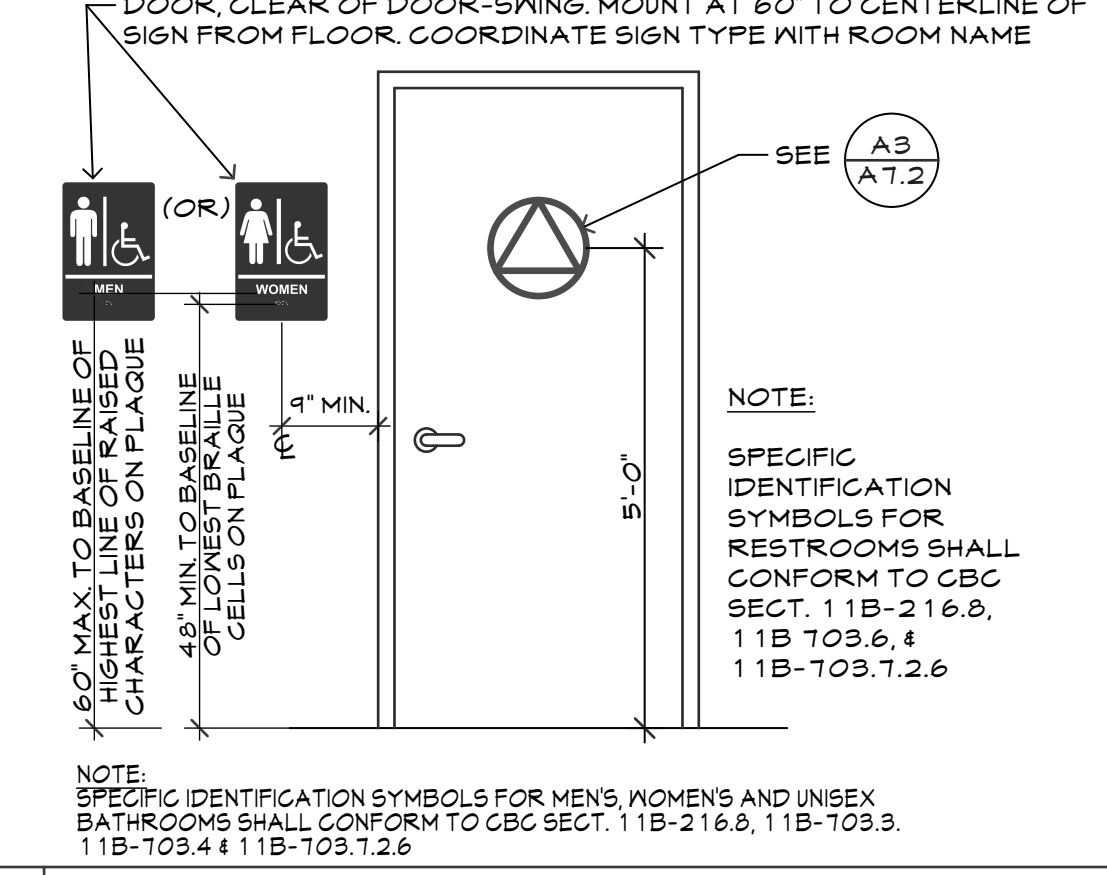
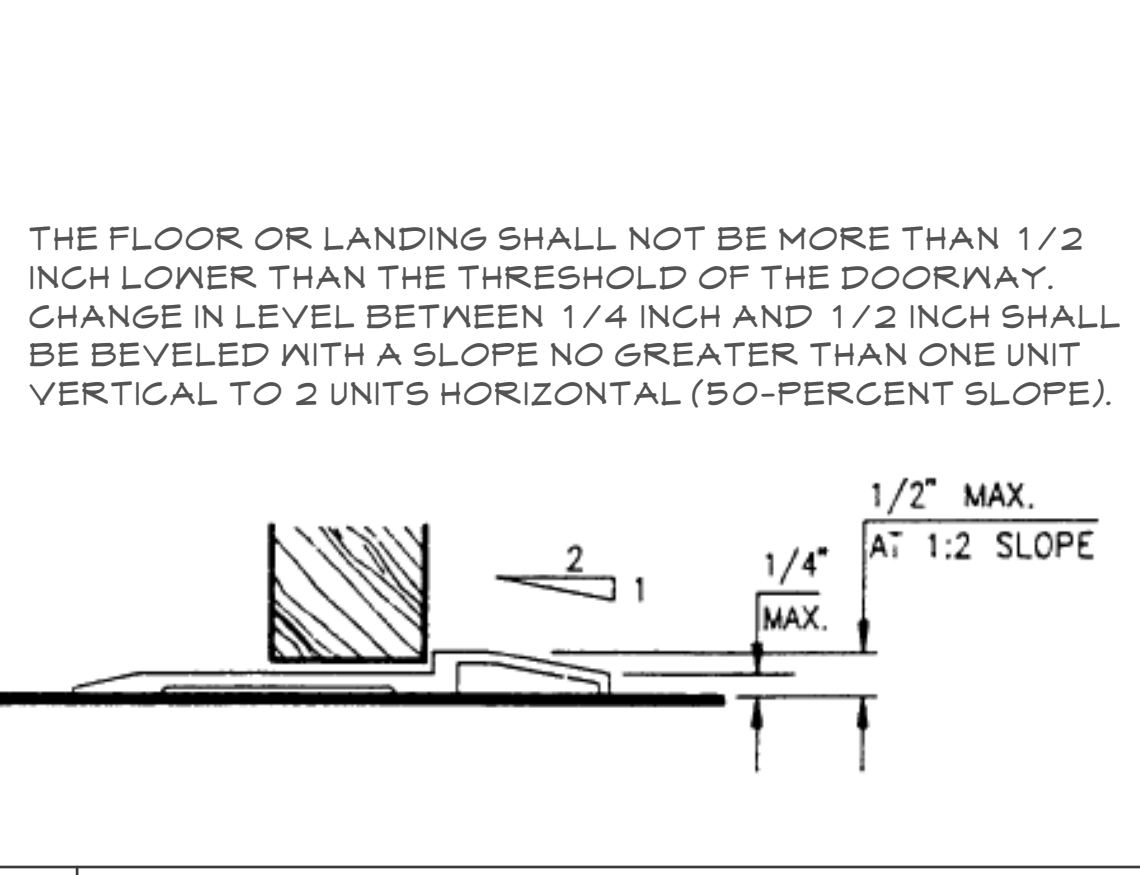
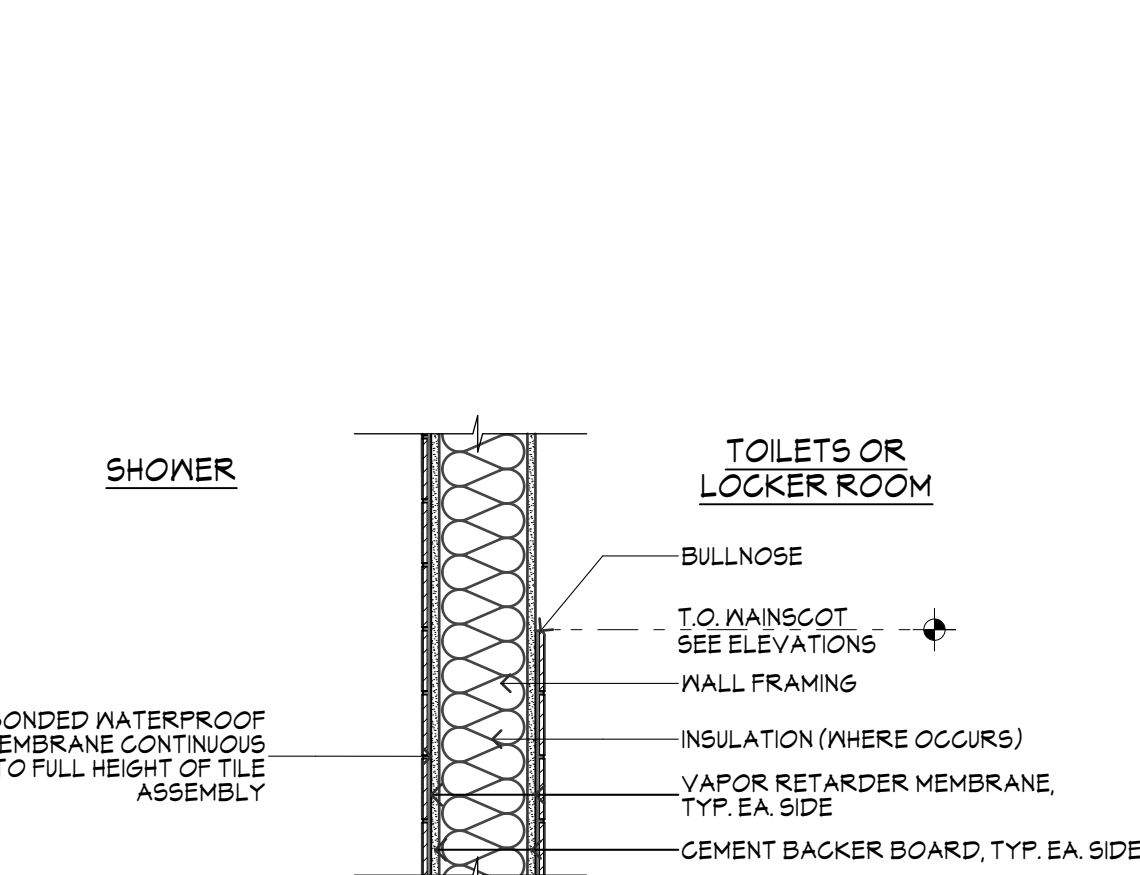
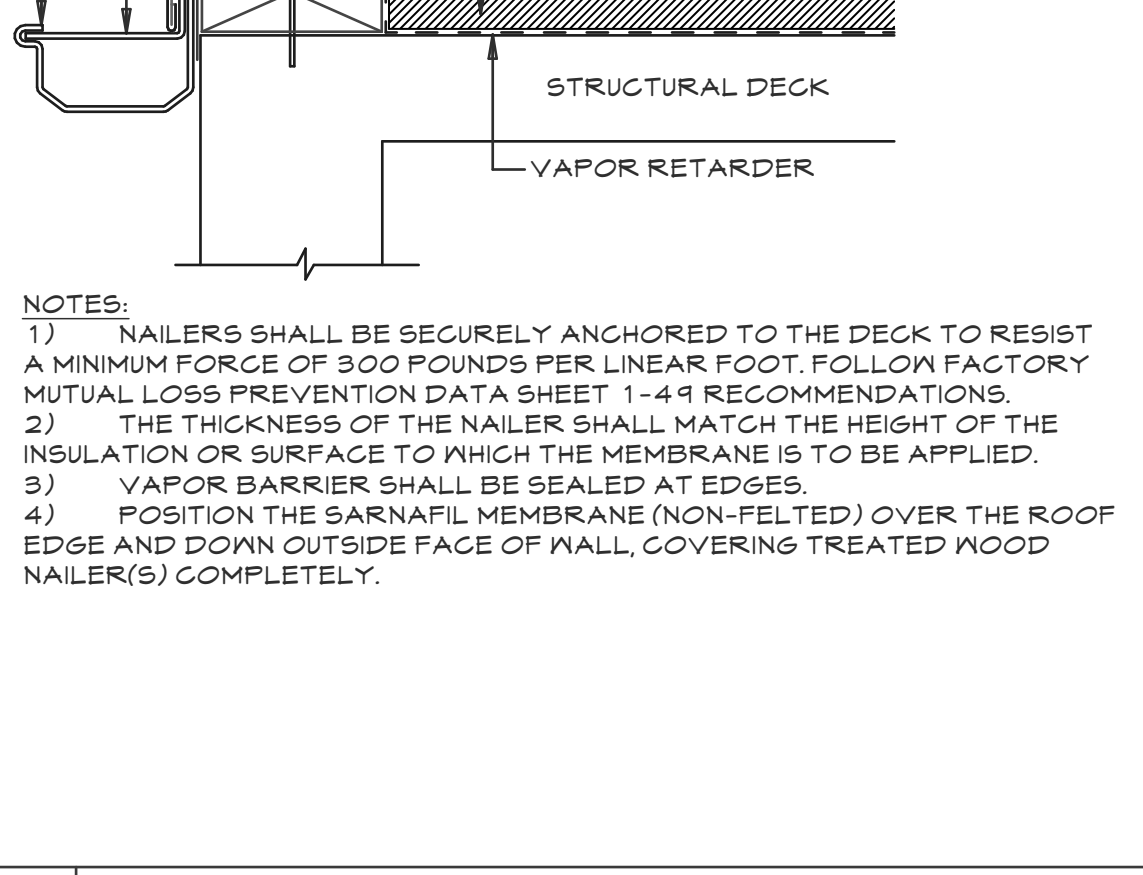
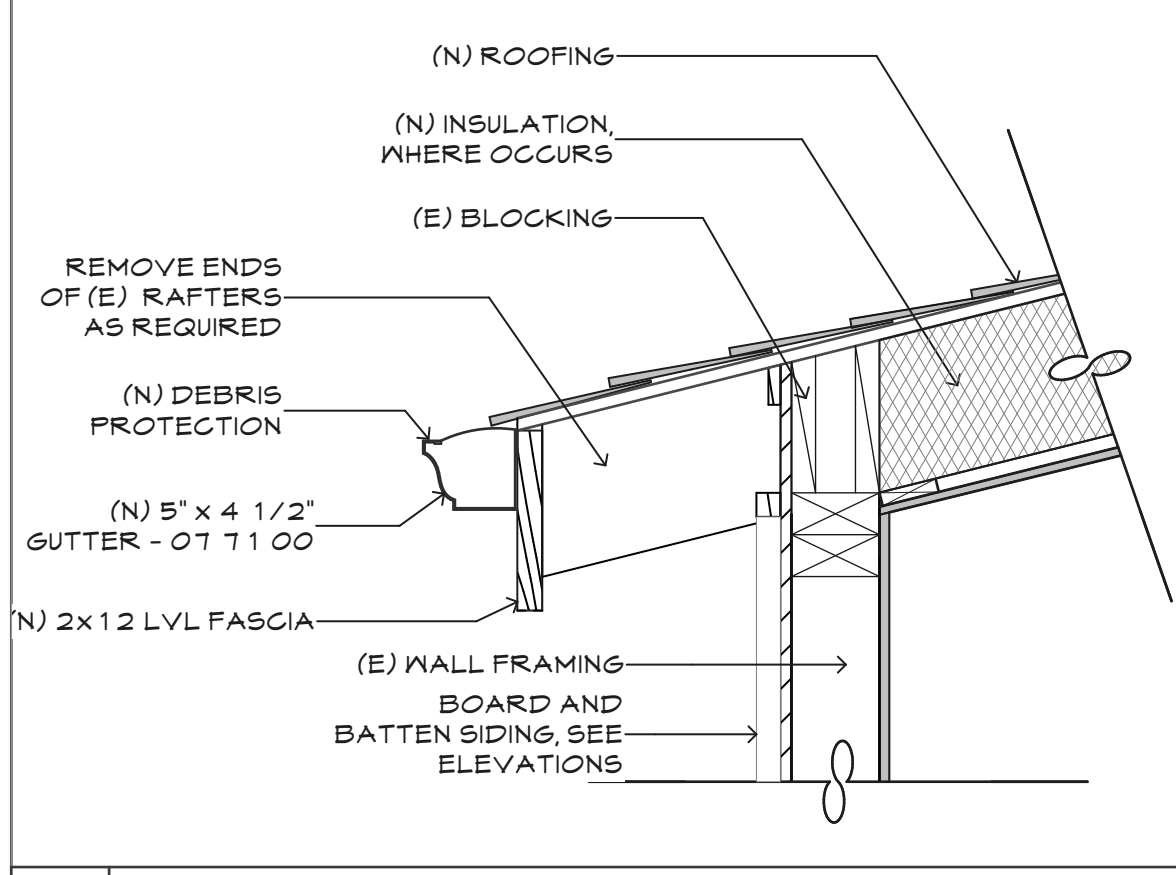


G15 RAKE 1" = 1'-0"

G9 TIE-IN AT ASPHALT SHINGLES 3" = 1'-0"

G6 TILE AT EXTERIOR SHOWER 1" = 1'-0"

G3 EXIT ONLY SIGN NO SCALE

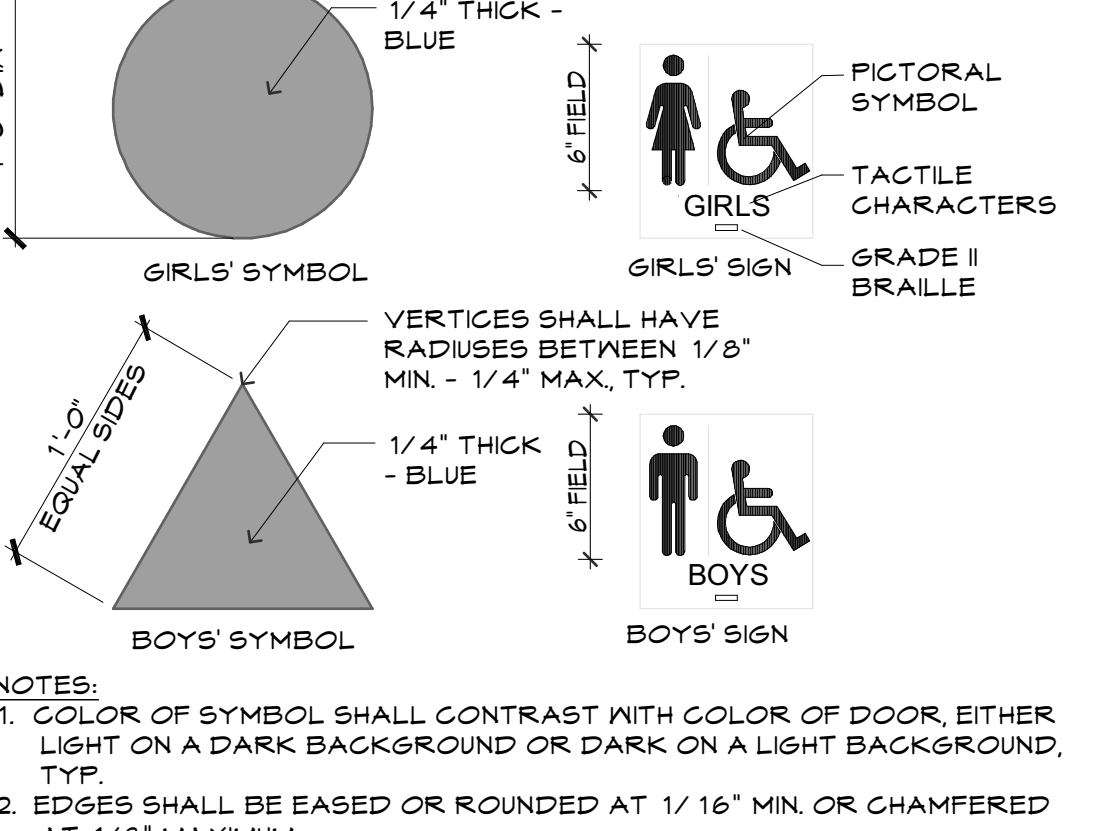
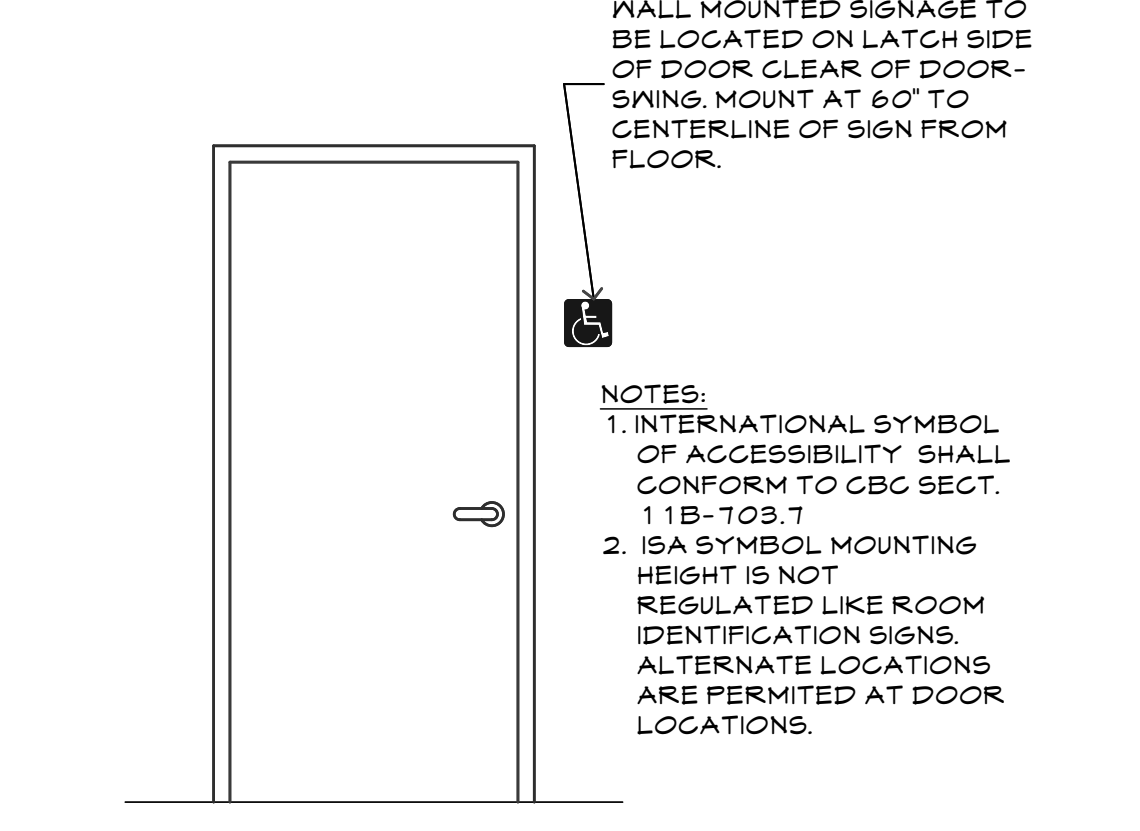
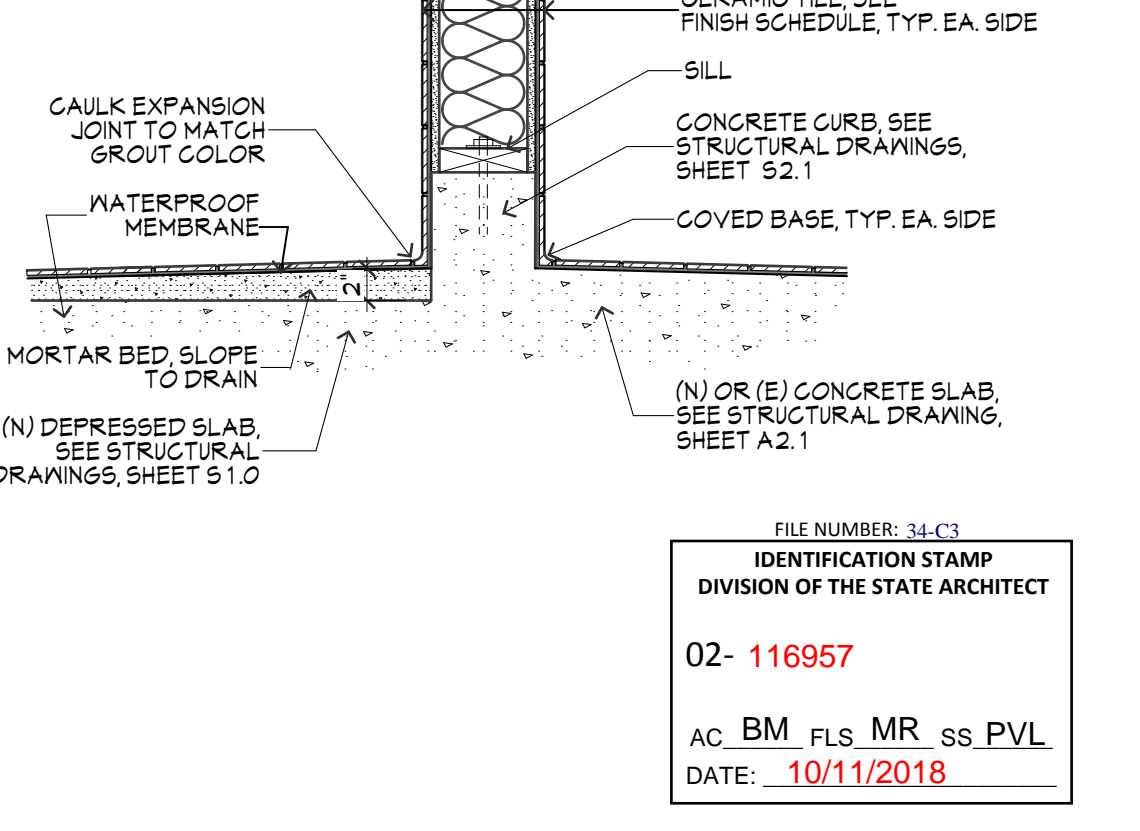
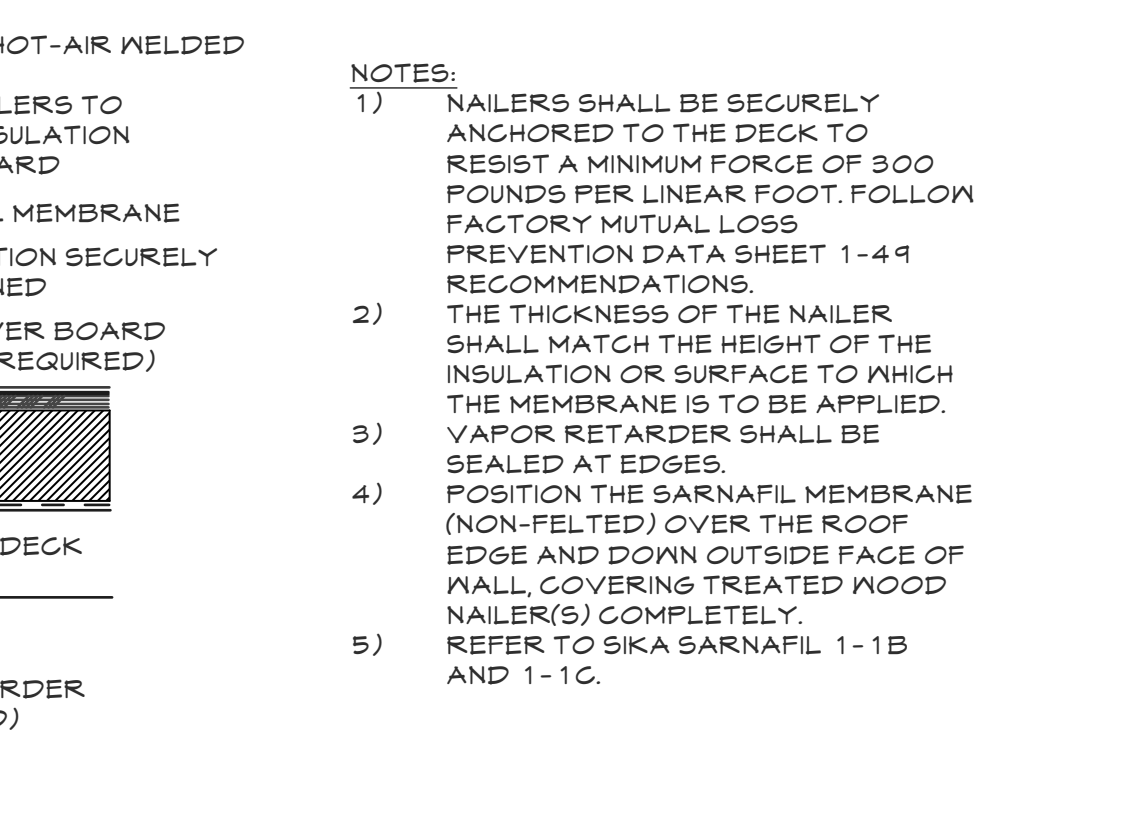
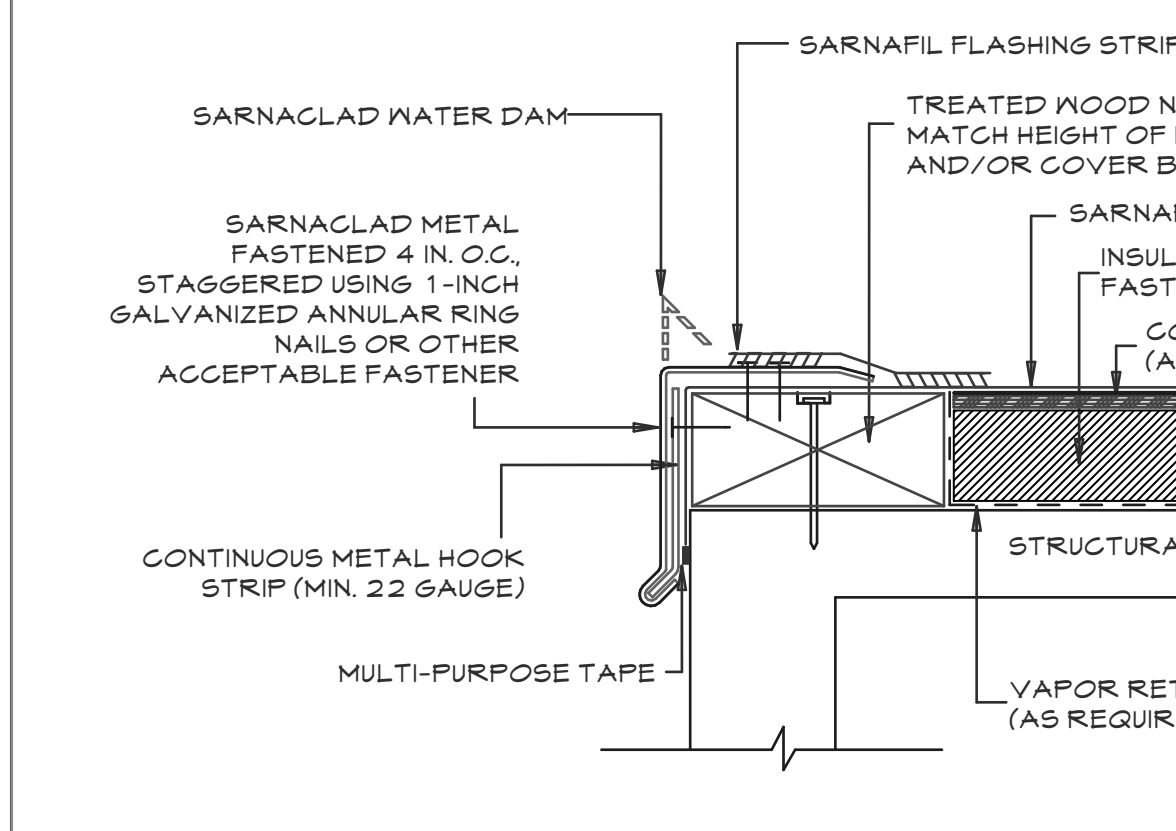


D15 RAFTER END / GUTTER 1" = 1'-0"

D12 GUTTER EDGE 3" = 1'-0"

D6 TYPICAL THRESHOLD NO SCALE

D3 RESTROOM SIGN HEIGHTS 1/2" = 1'-0"



A15 METAL EDGE 3" = 1'-0"

A9 PARTITION FINISHES 1" = 1'-0"

A6 INTERNATIONAL SYMBOL OF ACCESSIBILITY NO SCALE

A3 RESTROOM DOOR SIGNAGE 3/4" = 1'-0"



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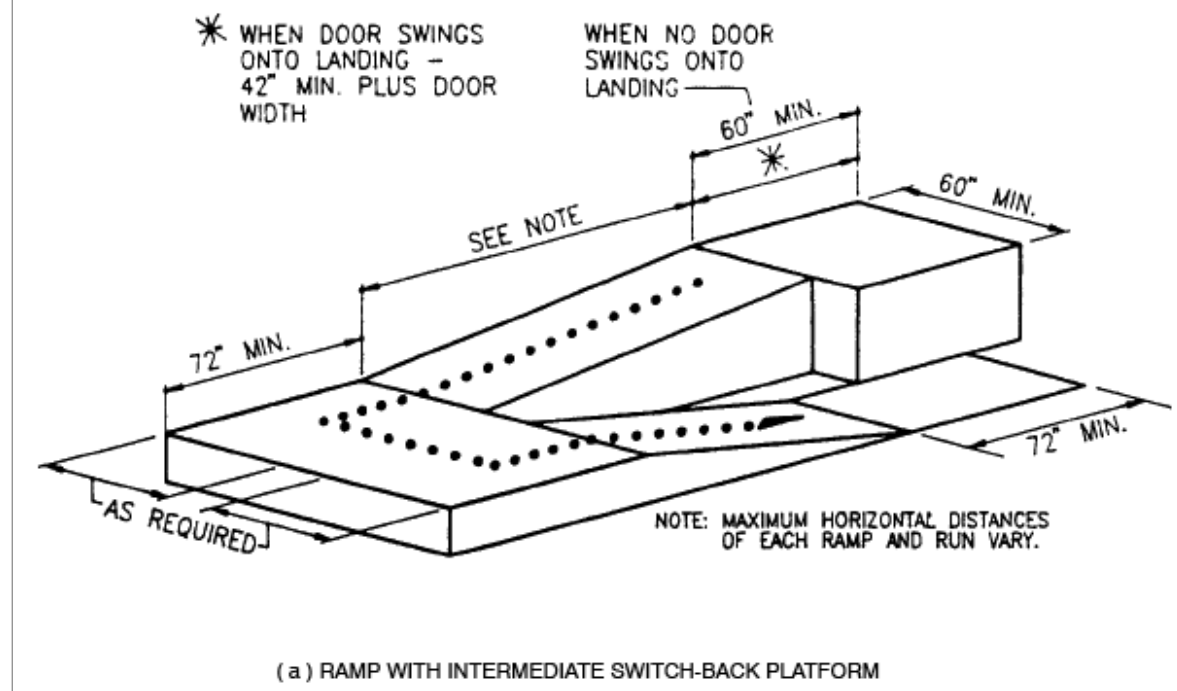
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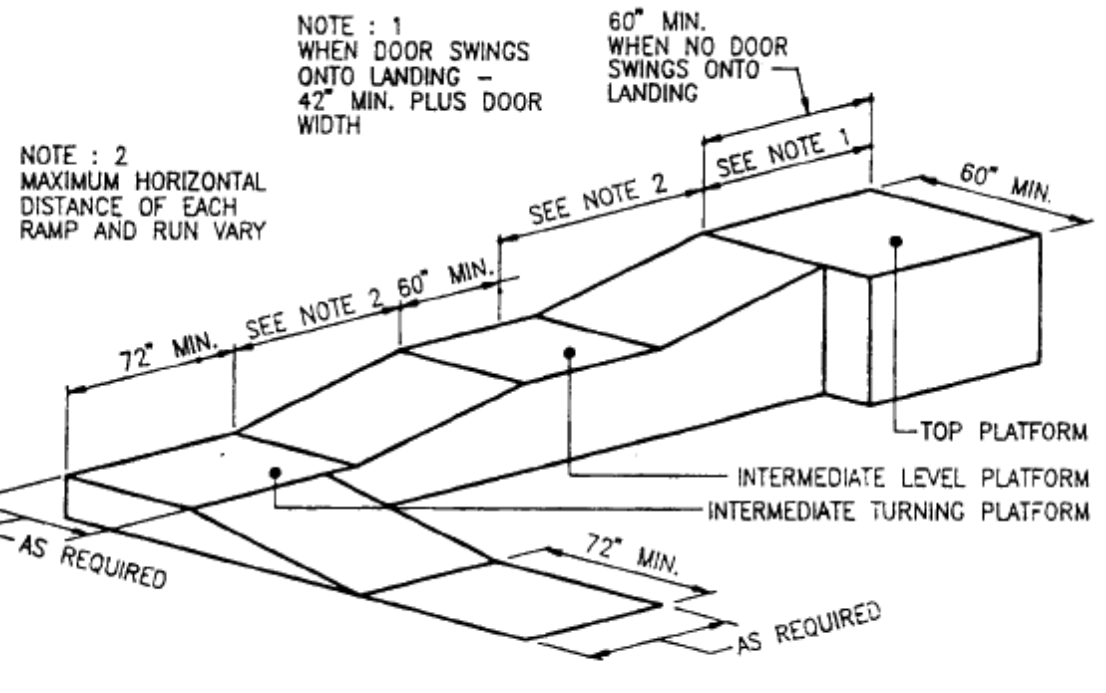
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DETAILS

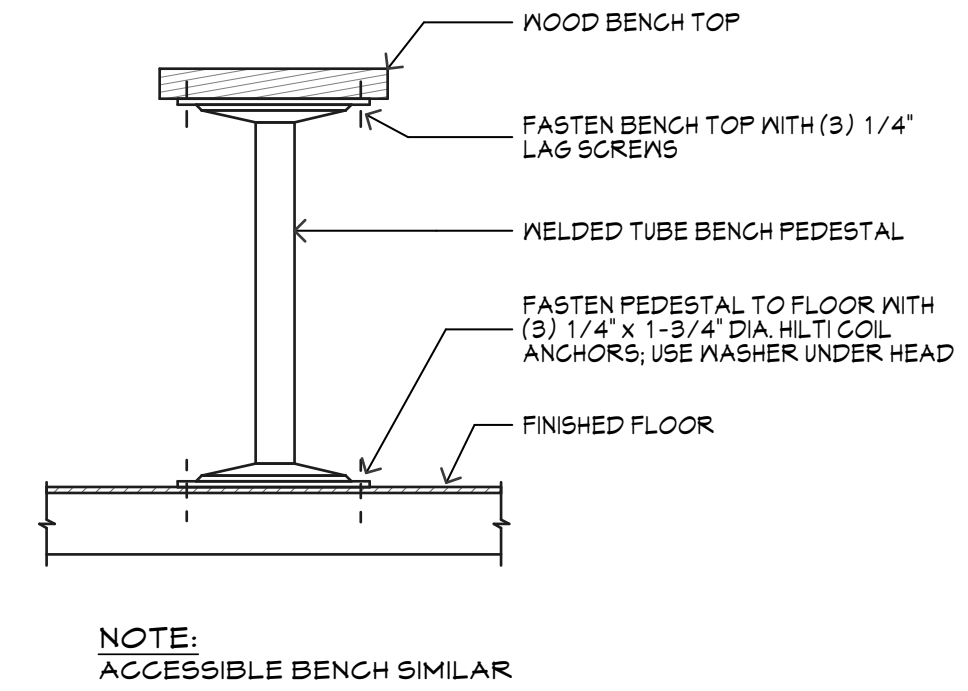
A7.2



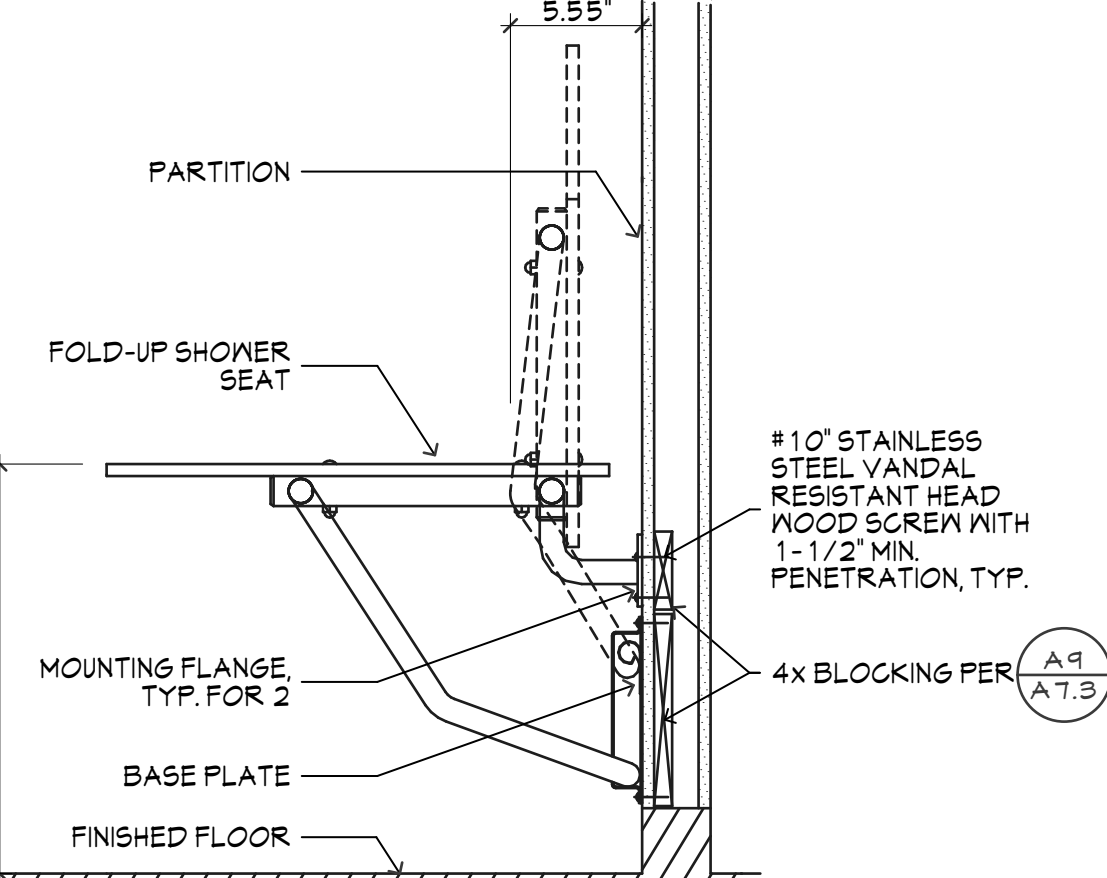
J12 RAMP WITH SWITCHBACK NOT TO SCALE



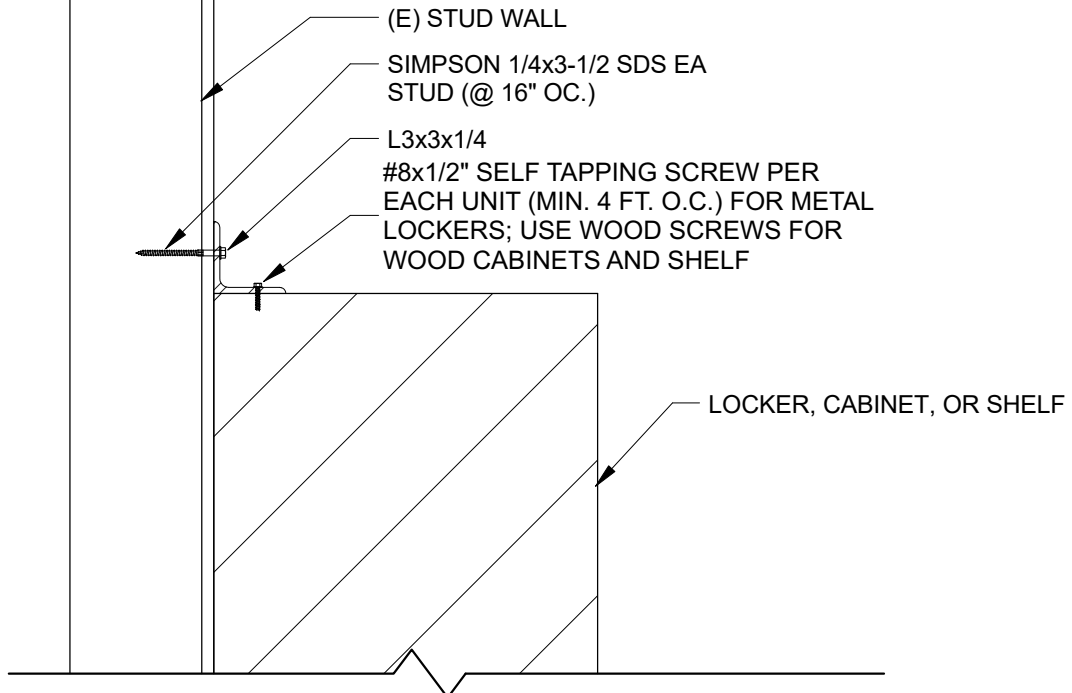
J9 RAMP WITH TURN NOT TO SCALE



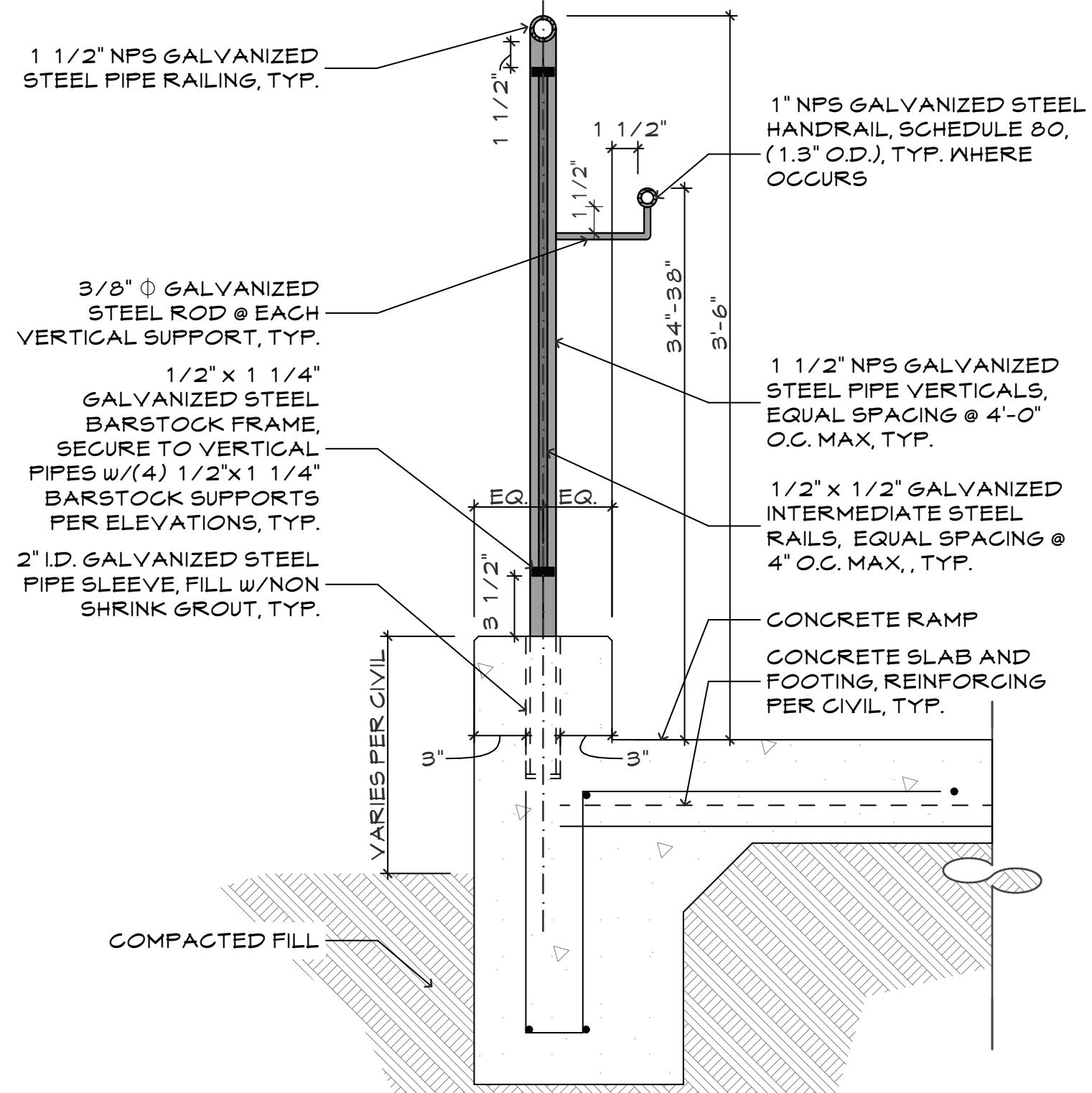
J6 BENCH 1 1/2\" = 1'-0\"



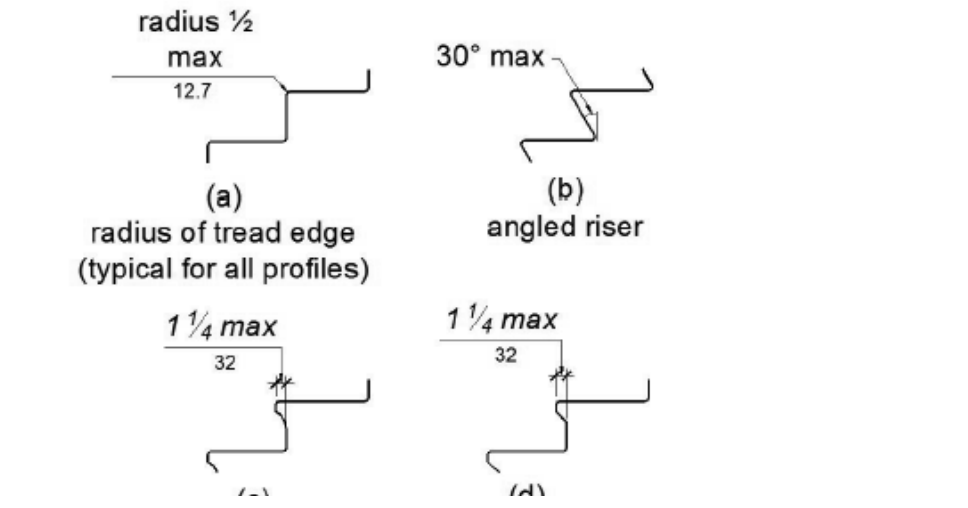
J3 FOLDING SHOWER SEAT NO SCALE



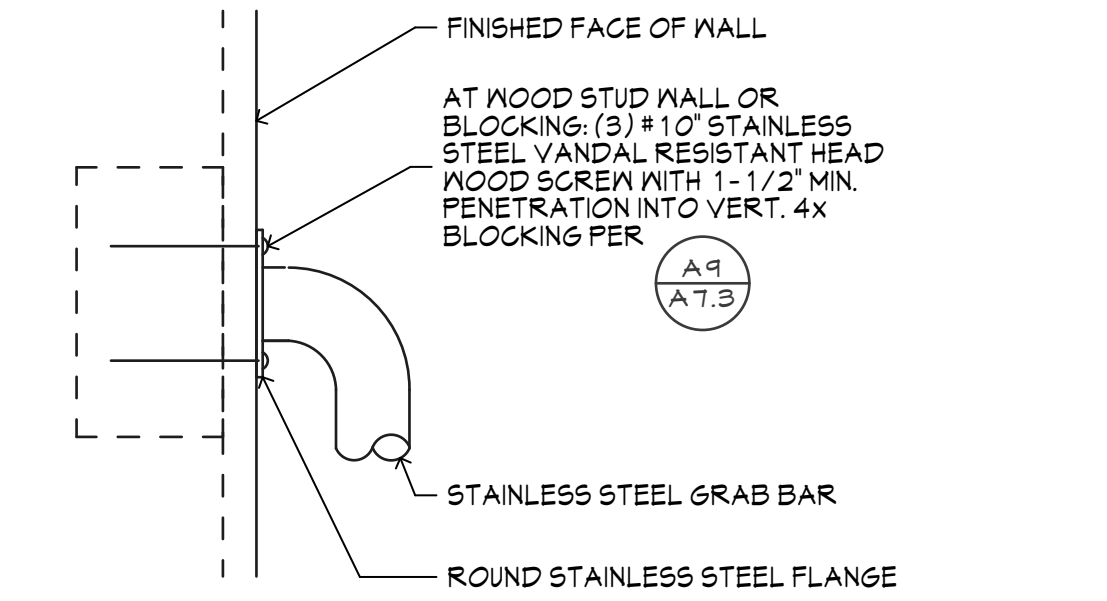
G15 ANCHORAGE OF STORAGE UNITS NOT TO SCALE



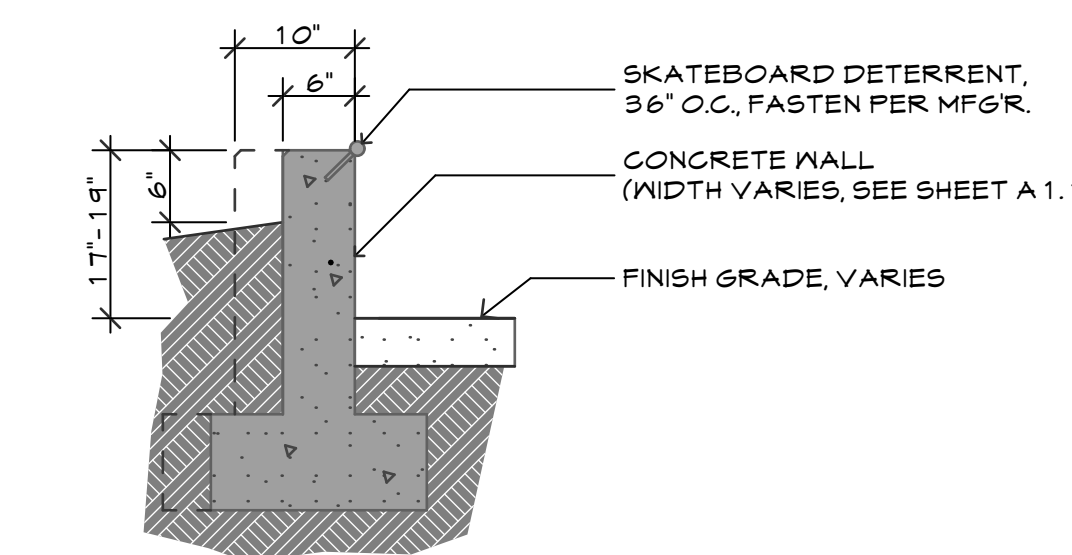
D12 RAMP RAILING



G6 STAIR NOSINGS NOT TO SCALE

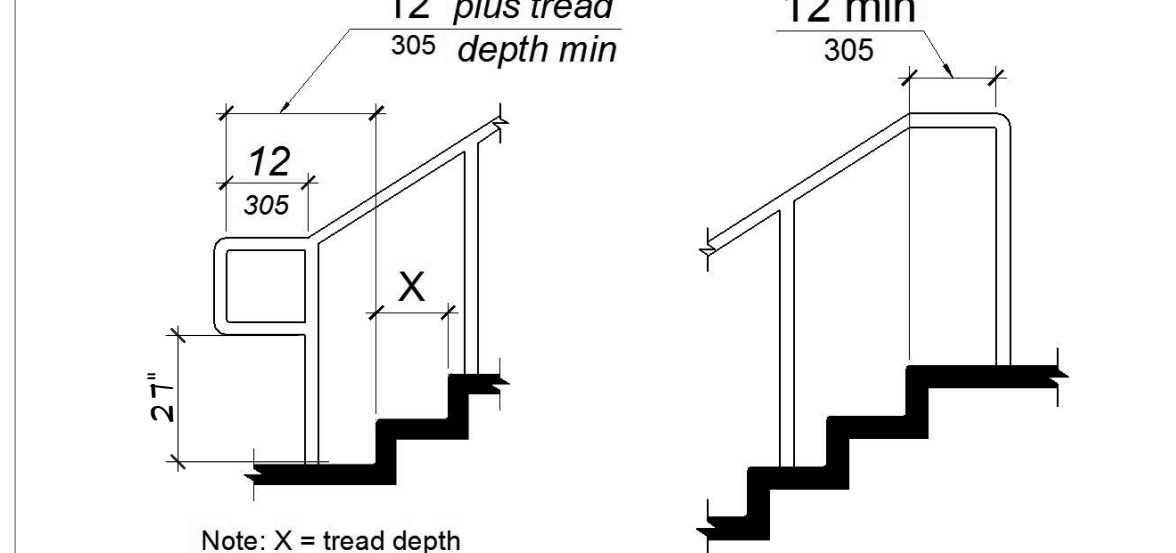


G3 TYPICAL GRAB BAR BLOCKING 3\" = 1'-0\"

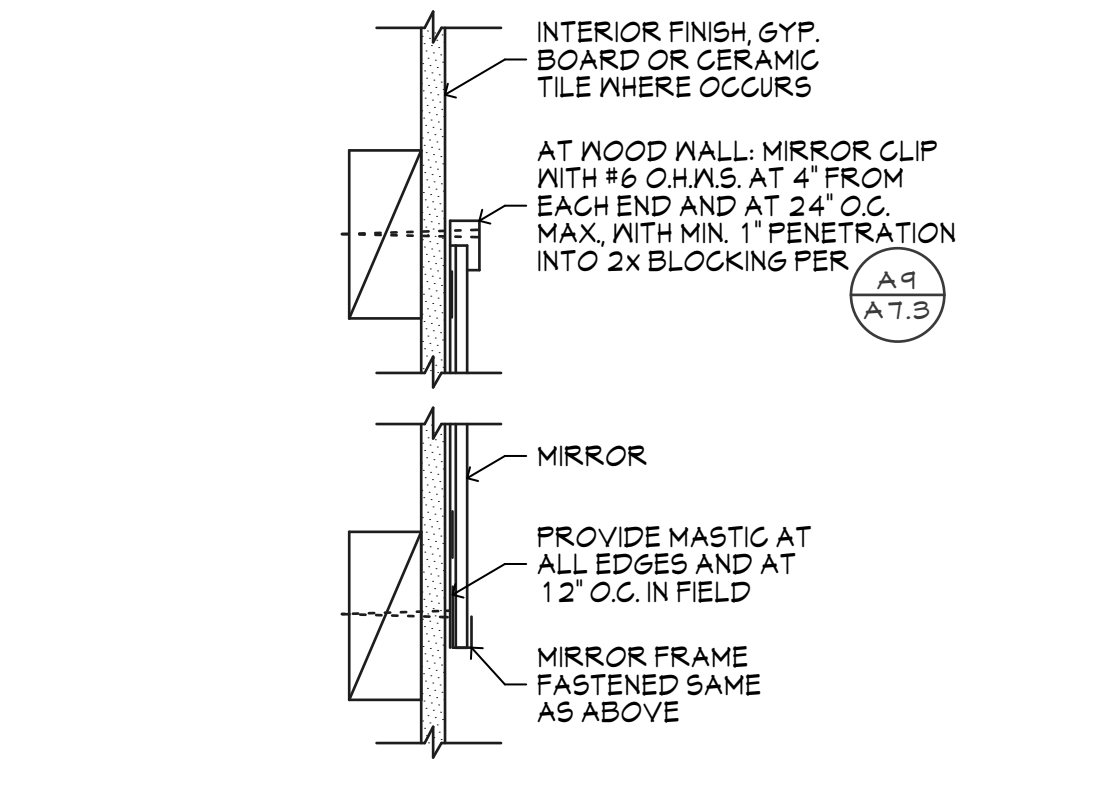


D15 LOW WALL 3/4\" = 1'-0\"

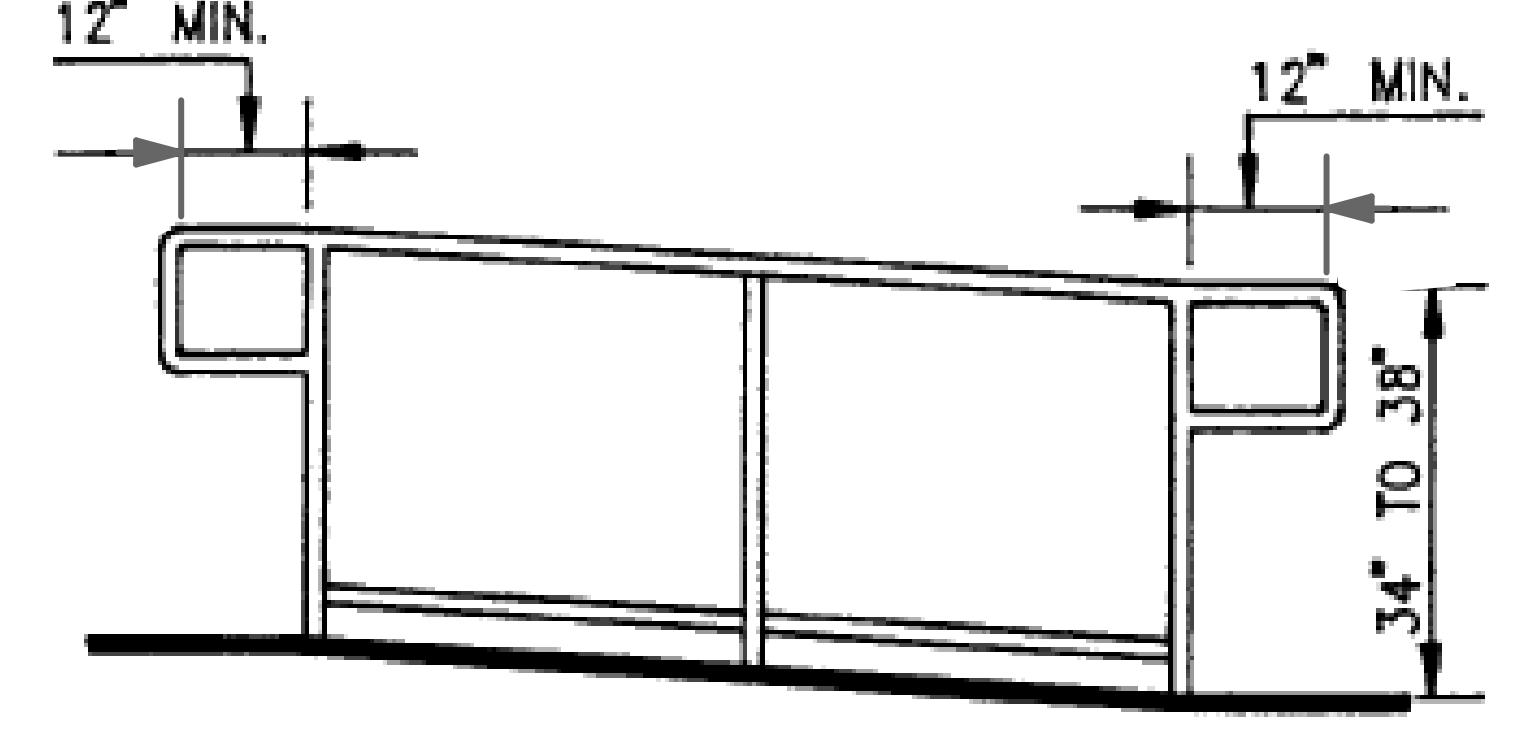
NOTES:  
 1. ALL RAILING STEEL TO BE HOT DIP GALVANIZED.  
 2. ALL STEEL PIPING TO BE SCHEDULE 40, U.N.O.  
 3. GALVANIZE RAILING IN AS LARGE SECTION AS POSSIBLE  
 4. ALL CONNECTIONS TO BE WELDED AND GROUND SMOOTH  
 5. VERIFY DIMENSIONS IN FIELD  
 6. SEE SPECIFICATIONS, SECTION 05 50 00



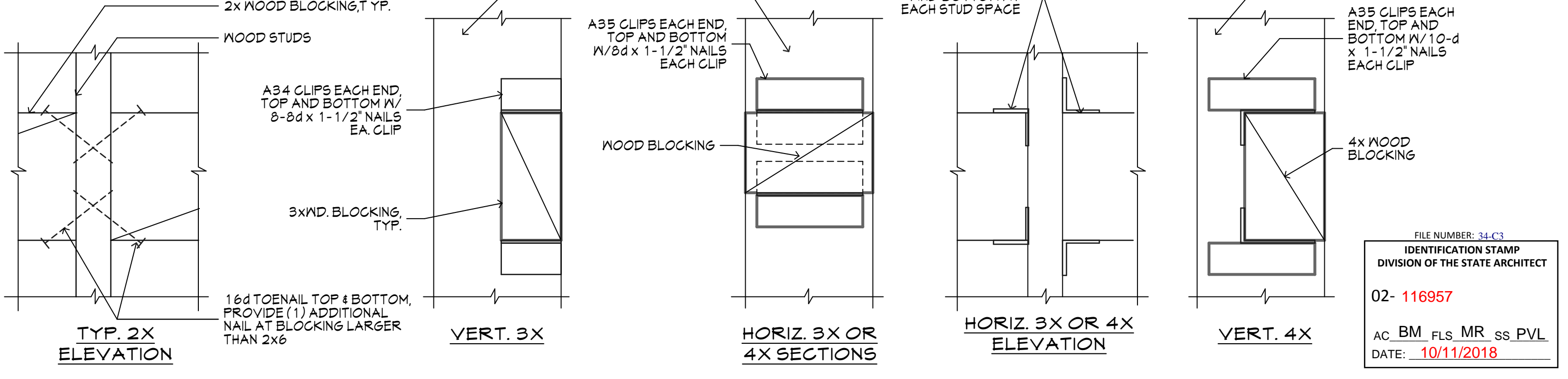
D6 STAIR RAILS AND STRIPING NOT TO SCALE



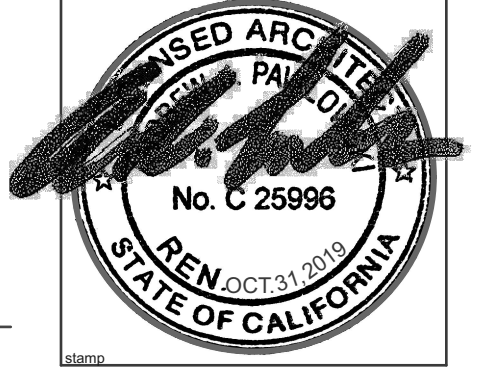
D3 MIRROR ATTACHMENT 3\" = 1'-0\"



A15 RAMP RAIL NOT TO SCALE



A9 TYPICAL WOOD BLOCKING 3\" = 1'-0\"



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**NEVADA JOINT UNION HIGH SCHOOL DISTRICT**  
 NEVADA JOINT UNION HIGH SCHOOL, GRASS VALLEY, CA

DATE	10/10/18
SCALE	AS SHOWN
NO.	17-429

DETAILS  
**A7.3**

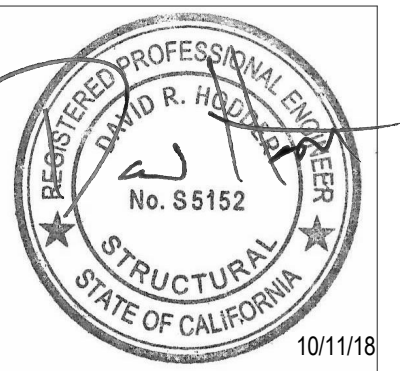


**TABLE 2304.10.1 FASTENING SCHEDULE**

DESCRIPTION OF BUILDING ELEMENTS	NUMBER AND TYPE OF FASTENER	SPACING AND LOCATION
<b>Roof</b>		
1. Blocking between ceiling joists, rafters or trusses to top plate or other framing below	3-8d common (21/2" x 0.131"); or 3-10d box (3" x 0.128"); or 3-3" x 0.131" nails; or 3-3" 14 gage staples, 7/16" crown	Each end, toenail
Blocking between rafters or truss not at the wall top plate, to rafter or truss	2-8d common (21/2" x 0.131") 2-3" x 0.131" nails 2-3" 14 gage staples	Each end, toenail
	2-16 d common (31/2" x 0.162") 3-3" x 0.131" nails 3-3" 14 gage staples	End nail
Flat blocking to truss and web filler	16d common (31/2" x 0.162") @ 6" o.c. 3" x 0.131" nails @ 6" o.c. 3" x 14 gage staples @ 6" o.c	Face nail
2. Ceiling joists to top plate	3-8d common (21/2" x 0.131"); or 3-10d box (3" x 0.128"); or 3-3" x 0.131" nails; or 3-3" 14 gage staples, 7/16" crown	Each joist, toenail
3. Ceiling joist not attached to parallel rafter, laps over partitions (no thrust) (see Section 2308.7.3.1, Table 2308.7.3.1)	3-16d common (31/2" x 0.162"); or 4-10d box (3" x 0.128"); or 4-3" x 0.131" nails; or 4-3" 14 gage staples, 7/16" crown	Face nail
4. Ceiling joist attached to parallel rafter (heel joint) (see Section 2308.7.3.1, Table 2308.7.3.1)	Per Table 2308.7.3.1	Face nail
6. Rafter or roof truss to top plate (See Section 2308.7.5, Table 2308.7.5)	3-10 common (3" x 0.148"); or 3-16d box (31/2" x 0.135"); or 4-10d box (3" x 0.128"); or 4-3" x 0.131" nails; or 4-3" 14 gage staples, 7/16" crown	Toenail <sup>c</sup>
<b>Wall</b>		
8. Stud to stud (not at braced wall panels)	16d common (31/2" x 0.162"); 10d box (3" x 0.128"); or 3" x 0.131" nails; or 3-3" 14 gage staples, 7/16" crown	24" o.c. face nail 16" o.c. face nail
	16d common (31/2" x 0.162"); or 16d box (31/2" x 0.135"); or 3" x 0.131" nails; or 3-3" 14 gage staples, 7/16" crown	16" o.c. face nail 12" o.c. face nail
9. Stud to stud and abutting studs at intersecting wall corners (at braced wall panels)	16d common (31/2" x 0.162"); or 16d box (31/2" x 0.135"); or 3" x 0.131" nails; or 3-3" 14 gage staples, 7/16" crown	16" o.c. face nail 12" o.c. face nail
11. Continuous header to stud	4-8d common (21/2" x 0.131"); or 4-10d box (3" x 0.128")	Toenail
12. Top plate to top plate	16d common (31/2" x 0.162"); or 10d box (3" x 0.128"); or 3" x 0.131" nails; or 3" 14 gage staples, 7/16" crown	16" o.c. face nail 12" o.c. face nail
13. Top plate to top plate, at end joints	8-16d common (31/2" x 0.162"); or 12-10d box (3" x 0.128"); or 12-3" x 0.131" nails; or 12-3" 14 gage staples, 7/16" crown	Each side of end joint, face nail (minimum 24" lap splice length each side of end joint)
14. Bottom plate to joist, rim joist, band joist or block- ing (not at braced wall panels)	16d common (31/2" x 0.162"); or 16d box (31/2" x 0.135"); or 3" x 0.131" nails; or 3" 14 gage staples, 7/16" crown	16" o.c. face nail 12" o.c. face nail
	2-16d common (31/2" x 0.162"); or 3-16d box (31/2" x 0.135"); or 4-3" x 0.131" nails; or 4-3" 14 gage staples, 7/16" crown	16" o.c. face nail

16. Stud to top or bottom plate	4-8d common (21/2" x 0.131"); or 4-10d box (3" x 0.128"); or 4-3" x 0.131" nails; or 4-3" 14 gage staples, 7/16" crown; or 2-16d common (31/2" x 0.162"); or 3-10d box (3" x 0.128"); or 3-3" x 0.131" nails; or 3-3" 14 gage staples, 7/16" crown	Toenail End nail
17. Top or bottom plate to stud	2-16d common (31/2" x 0.162"); or 3-10d box (3" x 0.128"); or 3-3" x 0.131" nails; or 3-3" 14 gage staples, 7/16" crown	End nail
18. Top plates, laps at corners and intersections	2-16d common (31/2" x 0.162"); or 3-10d box (3" x 0.128"); or 3-3" x 0.131" nails; or 3-3" 14 gage staples, 7/16" crown	Face nail
27. Built-up girders and beams, 2" lumber layers	20d common (4" x 0.192")	32" o.c., face nail at top and bot- tom staggered on opposite sides
	10d box (3" x 0.128"); or 3" x 0.131" nails; or 3" 14 gage staples, 7/16" crown	24" o.c. face nail at top and bot- tom staggered on opposite sides
	And: 2-20d common (4" x 0.192"); or 3-10d box (3" x 0.128"); or 3-3" x 0.131" nails; or 3-3" 14 gage staples, 7/16" crown	Ends and at each splice, face nail
30. Bridging or blocking to joist, rafter or truss	2-8d common (21/2" x 0.131"); or 2-10d box (3" x 0.128"); or 2-3" x 0.131" nails; or 2-3" 14 gage staples, 7/16" crown	Each end, toenail
<b>Wood structural panels (WSP), subfloor, roof and interior wall sheathing to framing and particleboard wall sheathing</b>		
		<b>Edges (inches)</b> <b>Intermediate supports (inches)</b>
31. 3/8" - 1/2"	6d common or deformed (2" x 0.113") (subfloor and wall)	6      12
	8d box or deformed (21/2" x 0.113") (roof)	6      12
	23/8" x 0.113" nail (subfloor and wall)	6      12
	13/4" 16 gage staple, 7/16" crown (subfloor and wall)	4      8
	23/8" x 0.113" nail (roof)	4      8
32. 19/32" - 3/4"	13/4" 16 gage staple, 7/16" crown (roof)	3      6
	8d common (21/2" x 0.131"); or 6d deformed (2" x 0.113") 23/8" x 0.113" nail; or 2" 16 gage staple, 7/16" crown	6      12 4      8
<b>Interior paneling</b>		
41. 1/4"	4d casing (11/2" x 0.080"); or 4d finish (11/2" x 0.072")	6      12
42. 3/8"	6d casing (2" x 0.099"); or 6d finish (Panel supports at 24 inches)	6      12

FILE NUMBER: 34-C3  
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DIVISION OF THE STATE ARCHITECT  
02- 116957  
AC\_BM\_FLS\_MR\_SS\_PVL  
DATE: 10/11/2018



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POOL BUILDING RENOVATION  
 for  
 NUJHSD  
 NEVADA UNION HIGH SCHOOL, GRASS VALLEY, CA 95945

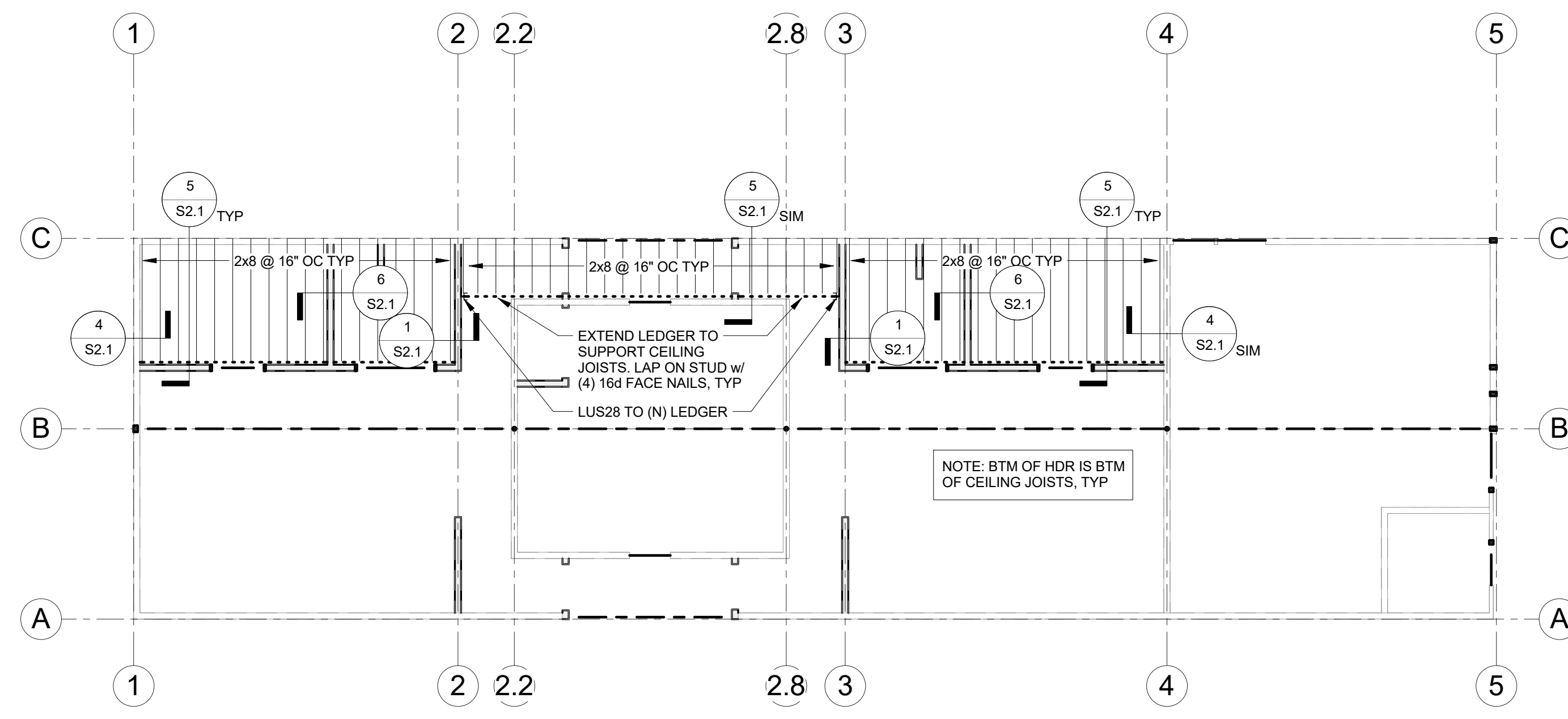
DATE	10/11/18
SCALE	As indicated
JOB #	2035

CBC '16 TABLE  
2304.10.1 NAILING  
SCHEDULE  
**S0.2**



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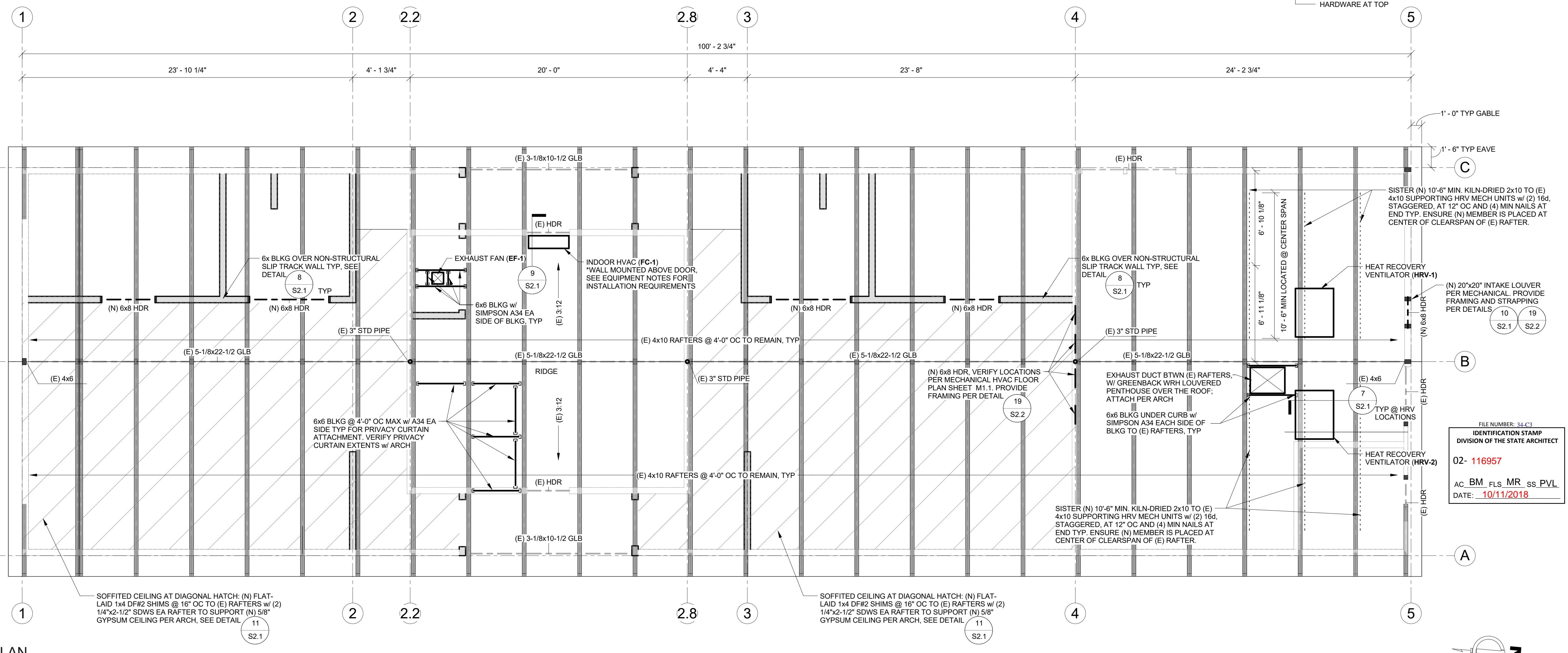
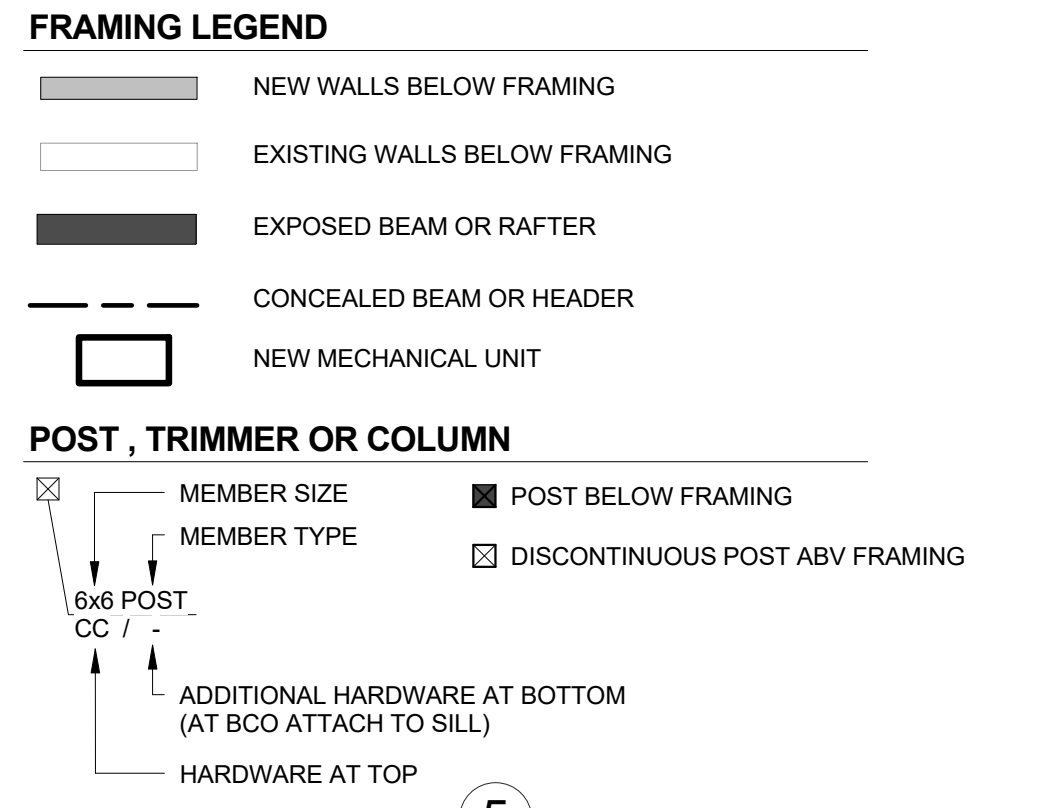
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**CEILING FRAMING PLAN**  
1/8" = 1'-0"

- EQUIPMENT NOTES:**
- COMMERCIAL POOL HEATER/BOILER:**
    - MAX OPERATING WEIGHT OF 1800 LBS.
  - FILTRATION TANKS:**
    - MAX OPERATING WEIGHT OF EACH SS27 MODULE IS 7400 LBS
    - SYSTEM IS A COMBINATION OF TWO MODULES FOR A TOTAL WEIGHT OF 14800 LBS.
  - HEAT RECOVERY VENTILATOR:**
    - MAX WEIGHT OF 285 LBS
  - CHLORINATION SYSTEM:**
    - MAX OPERATING WEIGHT OF 150 LBS
  - HVAC EQUIPMENT:**
    - INDOOR HEAT PUMP WALL UNIT MAX WEIGHT OF 31 LBS
    - OUTDOOR HEAT PUMP SHALL WEIGH LESS THAN 400 LBS
  - CHEMICAL CONTROL SYSTEM:**
    - WALL UNIT SHALL WEIGH LESS THAN 20 LBS
  - EXHAUST FAN:**
    - EXHAUST FANS SHALL WEIGH LESS THAN 20 LBS
  - EXHAUST PENTHOUSE:**
    - LOUVERED PENTHOUSE SHALL WEIGH LESS THAN 70 LBS
  - DUCTWORK:**
    - MAX WEIGHT OF 8 #/FT

- ROOF FRAMING NOTES**
- SEE ADDITIONAL REQUIREMENTS IN STRUCTURAL SPECIFICATIONS SHEET S0.1
  - ALL FRAMING IS AS-BUILT CONDITIONS. UNO. EXISTING ROOF SHEATHING IS 3/4" T&G STRUCTURAL 1 MDO PLYWOOD WITH TYPICAL SHEATHING NAILING OF 8d @ 6" FOR EDGE NAILING AND 8d @ 12" OC FOR INTERMEDIATE FRAMING. VIF CONDITION OF (E) SHEATHING AND REPLACE IN KIND AS REQ'D DURING RE-ROOFING AND PROVIDE 6" OC FIELD NAILING WHEN WITHIN 5' OF GABLE FASCIA LINES AND 4' OF RIDGES OR EAVES.
  - RE-ROOFING TO BE COMP SHINGLE ROOFING WITH COMPLETE REMOVAL OF (E) ROOFING (NOT SHOWN FOR CLARITY). VIF AND REPLACE ANY DAMAGED ROOF SHEATHING PER NOTE 2.
  - PROVIDE (N) FLAT-LAID 1"x4" DF#2 SHIMS @ 16" OC TO (E) RAFTERS W/ (2) 1/4"x2-1/2" SDWS EA RAFTER TO SUPPORT (N) 5/8" GYPSUM CEILING PER ARCH; SEE DETAIL 11/S2.1
  - ALL BEARING/PERIMETER WALLS - UPPER TOP PLATES TO BE SPLICED 48" MINIMUM AWAY FROM OPENINGS W/ (12) 16d AT LAP PROVIDE MST37 AT ANY PLATE DISCONTINUITIES (UNO).
  - ADJACENT SELF-SUPPORTED SHADE STRUCTURE NOT SHOWN FOR CLARITY.
  - VERIFY ALL UNIT LOCATIONS WITH ARCHITECTURAL AND MECHANICAL PLANS.
  - FOR (N) OPENINGS IN ROOF OR WALLS SEE DETAIL 10/S2.1, UNO.



**ROOF PLAN**  
1/4" = 1'-0"



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**POOL BUILDING RENOVATION**  
for  
NUJHSD  
NEVADA UNION HIGH SCHOOL, GRASS VALLEY, CA 95945

FILE NUMBER: 31/CS  
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DATE:	10/11/18
SCALE:	As indicated
JOB #:	2035

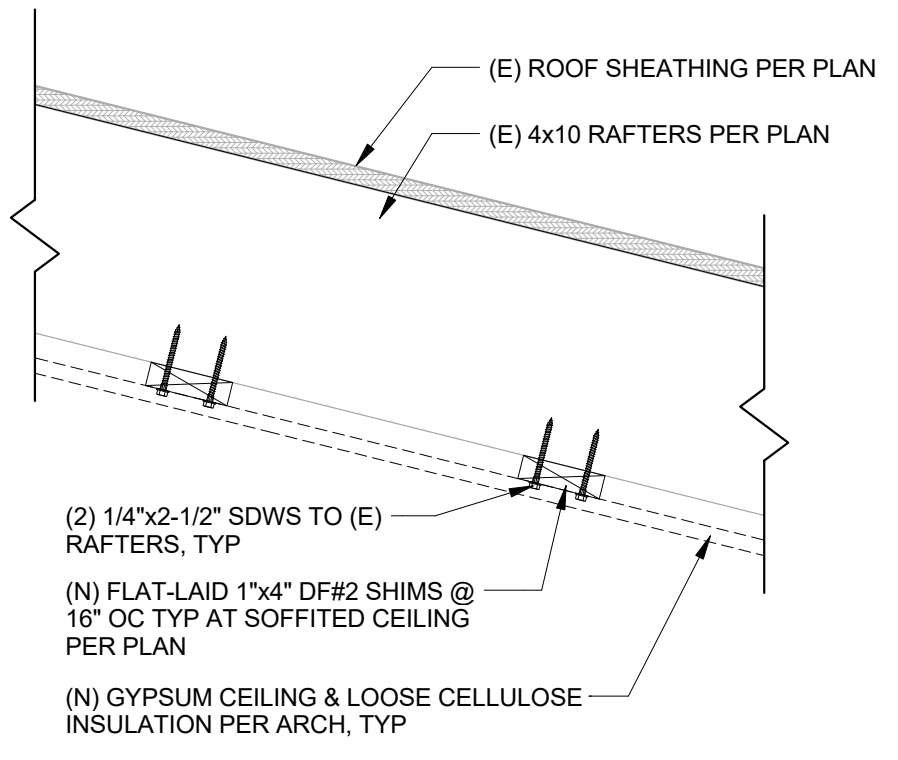
ROOF AND CEILING FRAMING PLANS

**S1.1**

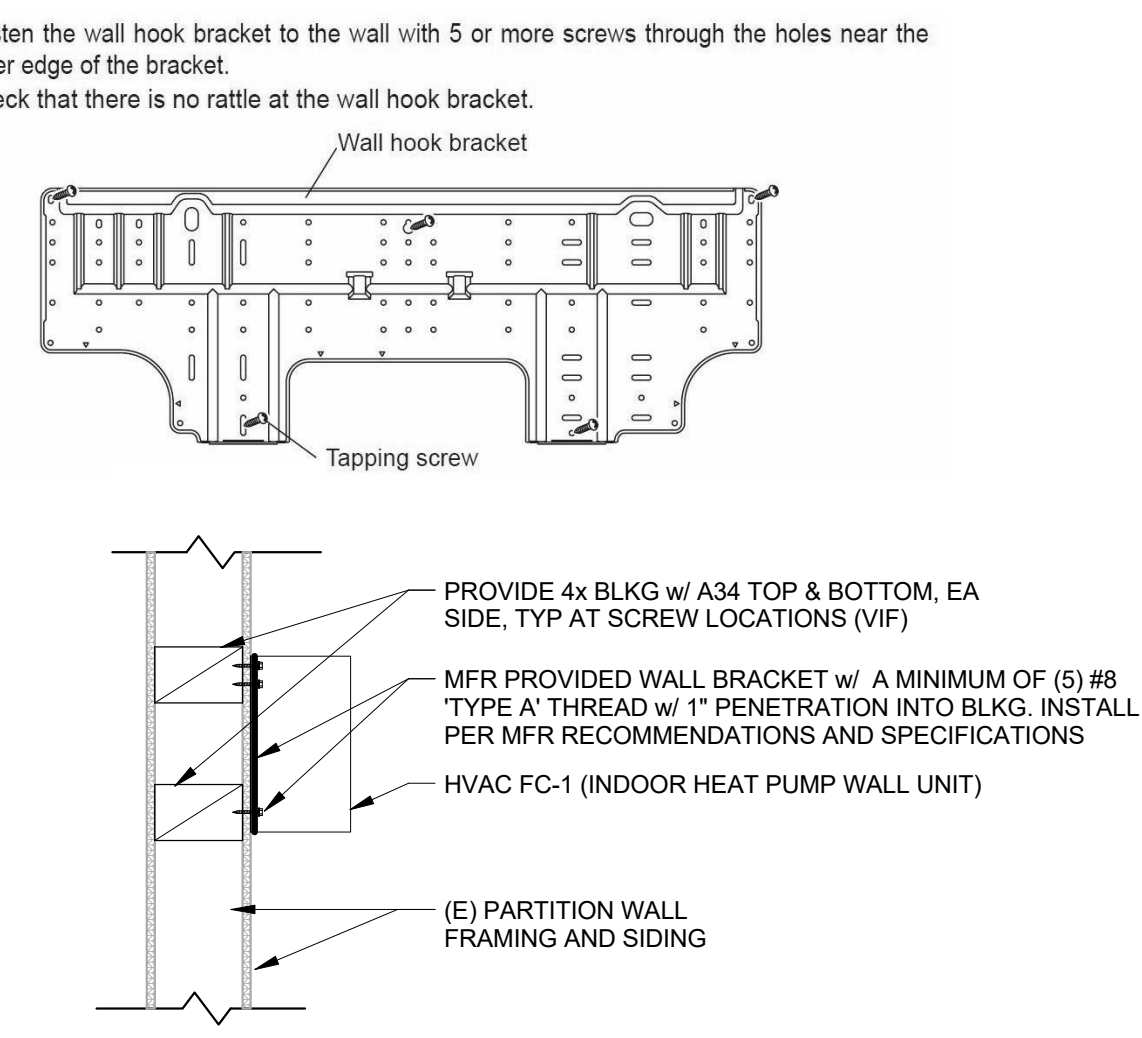
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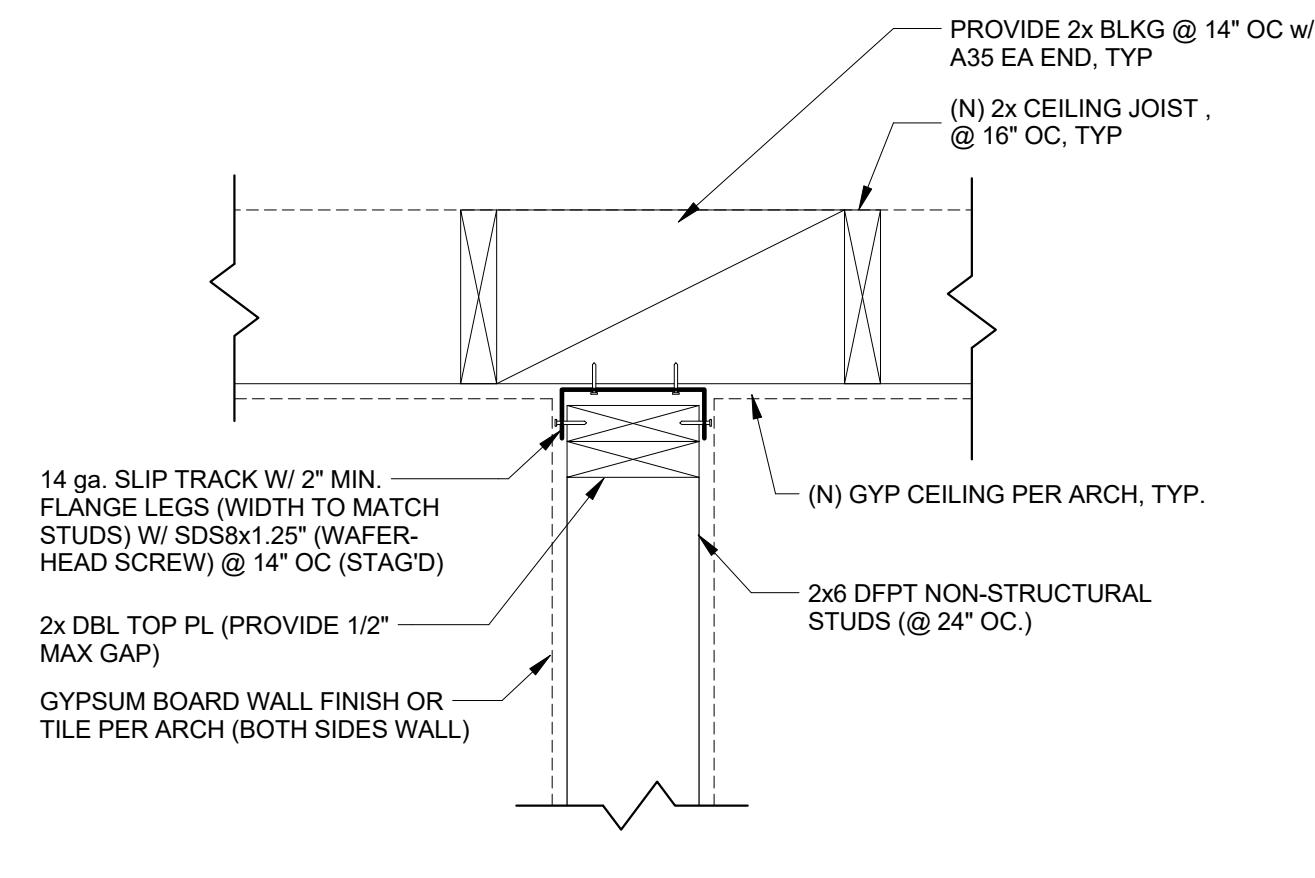
**11** TYPICAL GYPSUM CEILING SUPPORT  
1 1/2" = 1'-0"



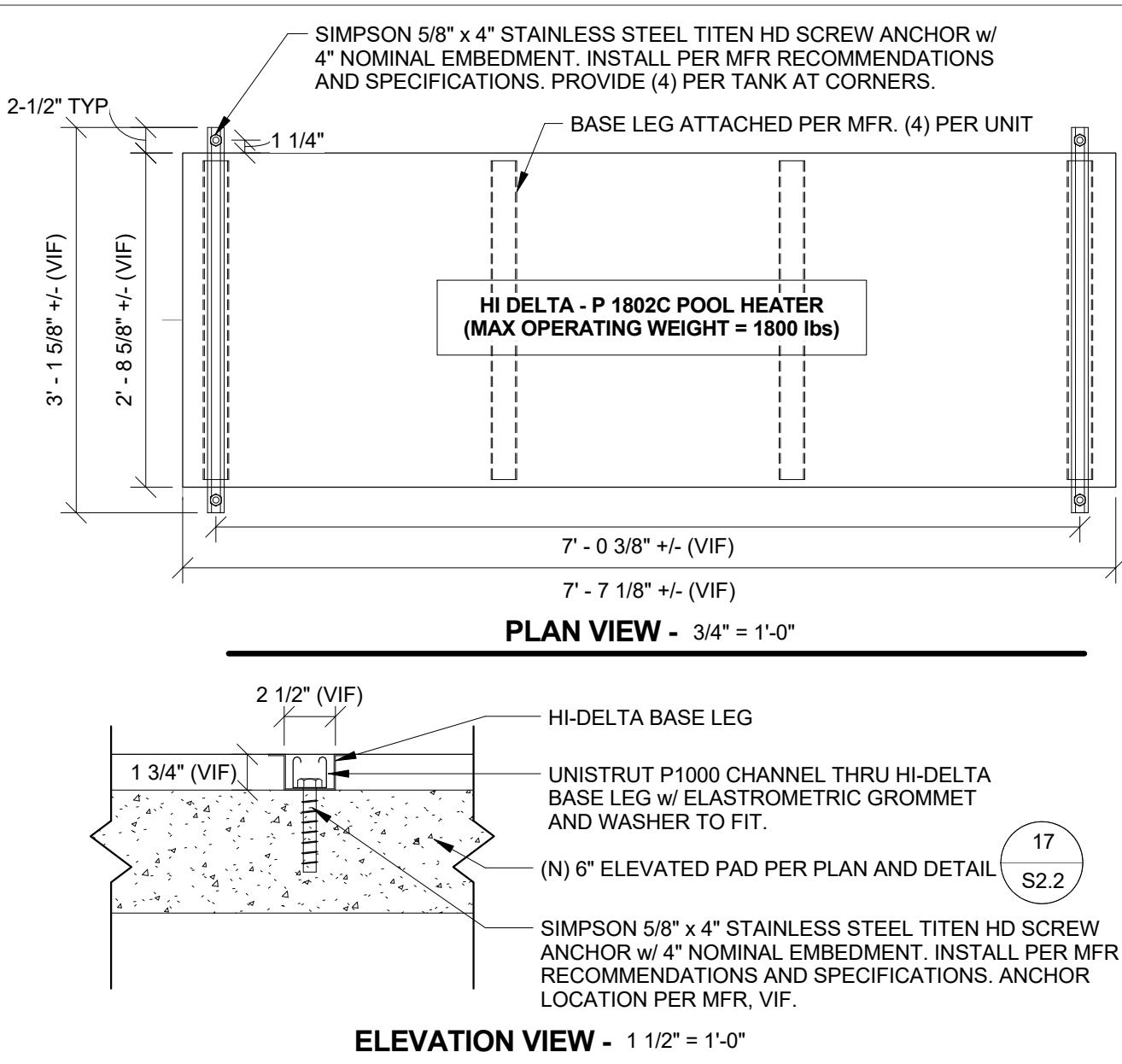
**9** HVAC FC-1 BRACKET ANCHORAGE  
1" = 1'-0"



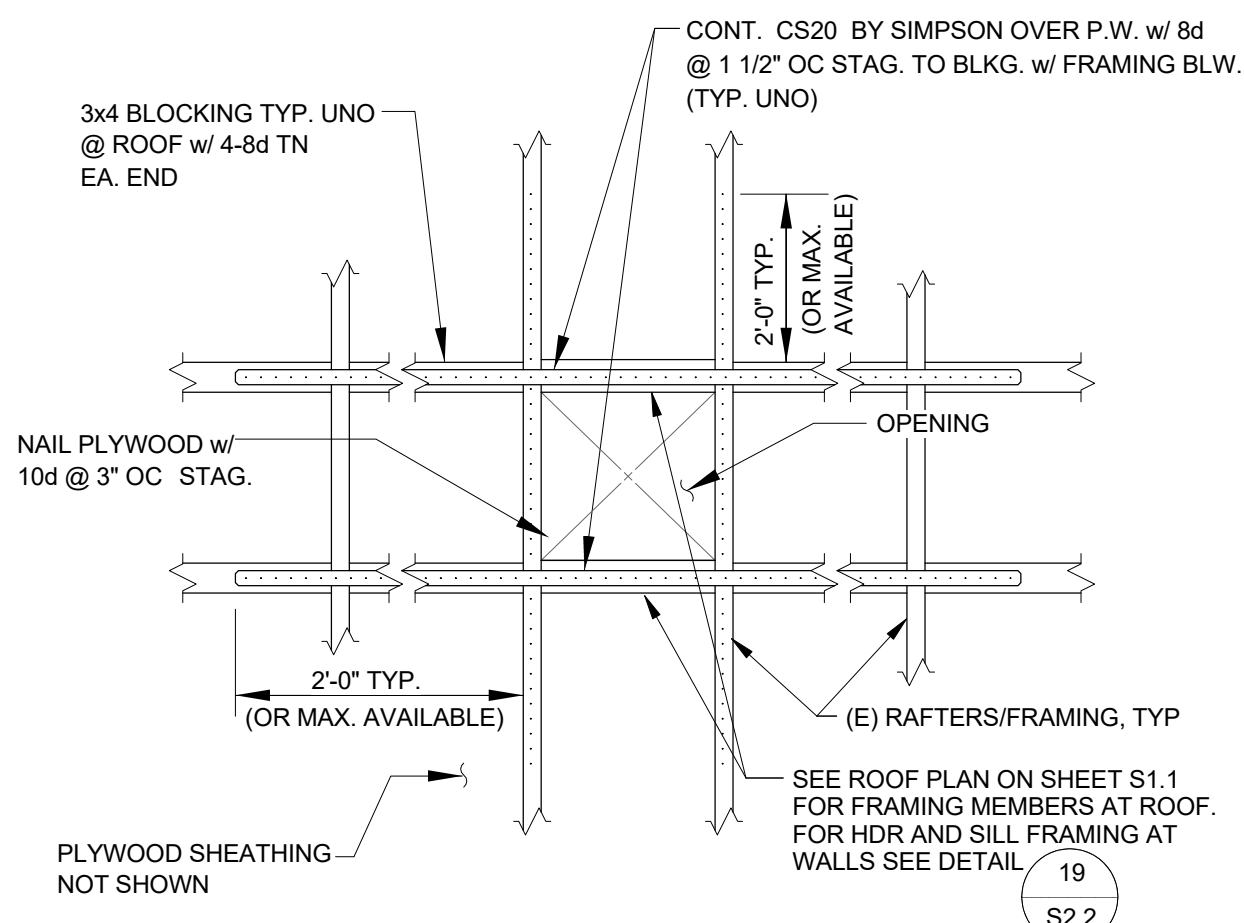
**6** NON-STRUCTURAL WALL TO CEILING JOIST  
1 1/2" = 1'-0"



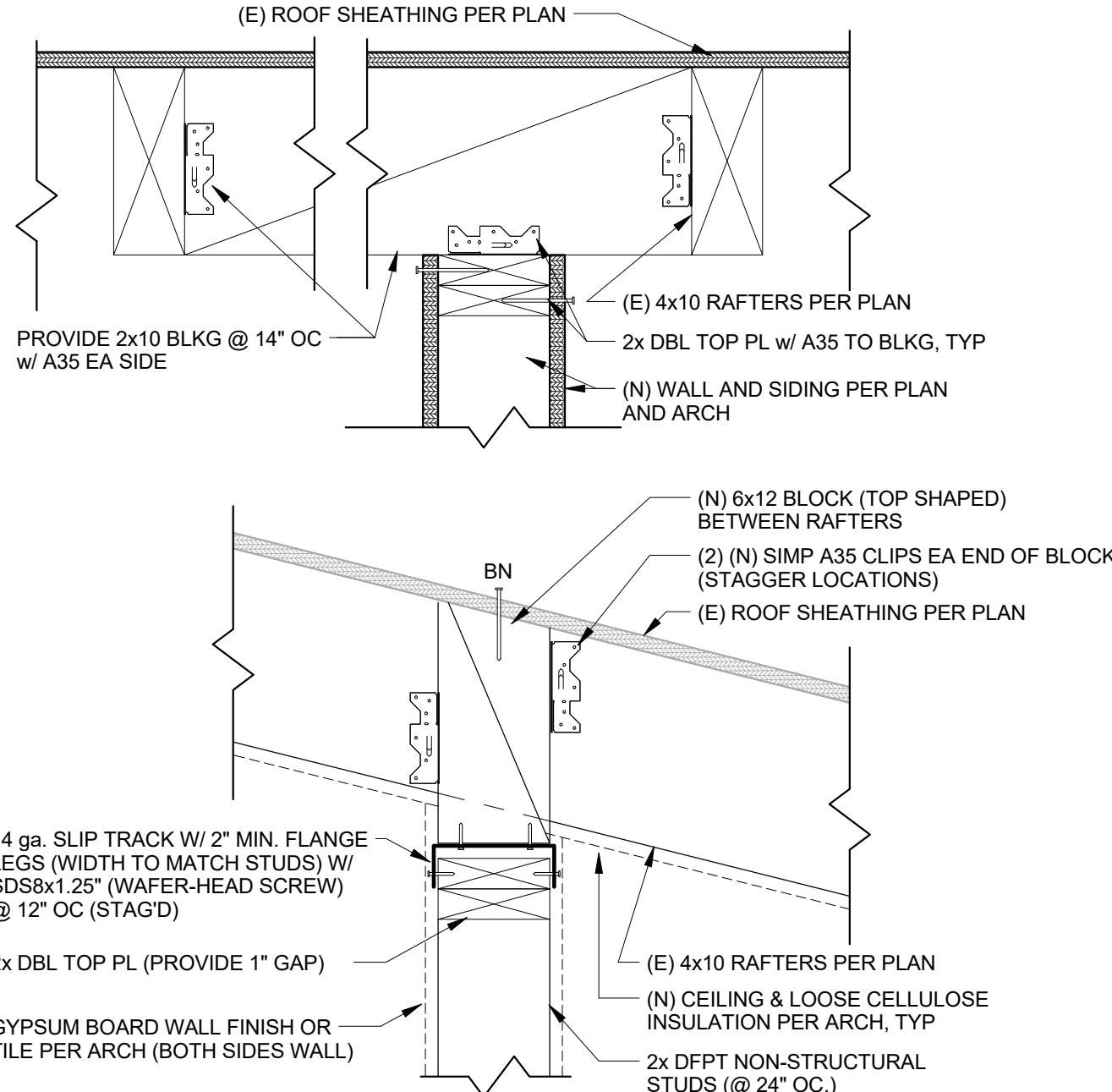
**3** HI DELTA HEATER ANCHORAGE \*SPECIAL INSPECTION REQUIRED  
\*VARIES



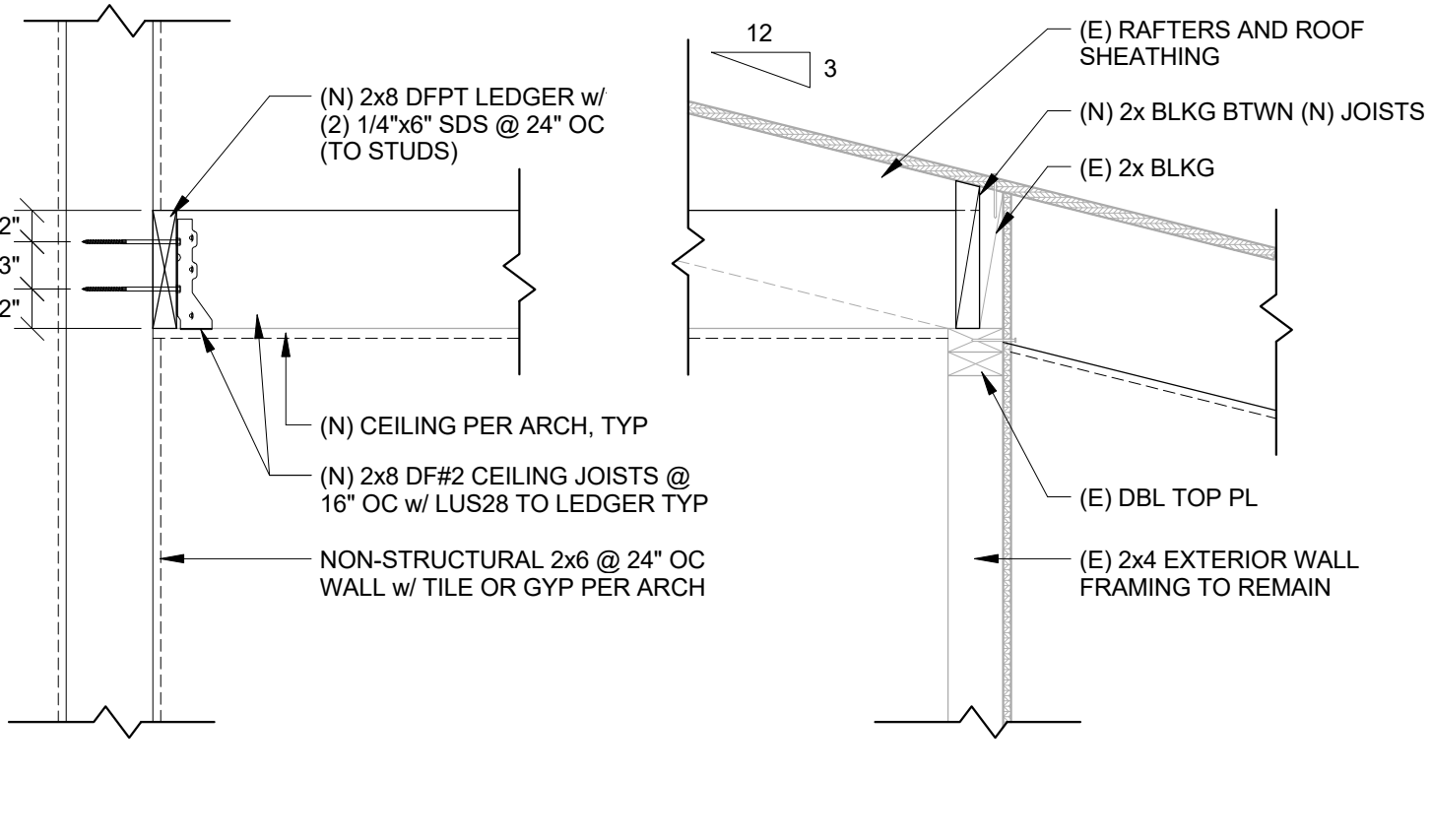
**10** TYPICAL WALL AND ROOF OPENING NAILING  
3/4" = 1'-0"



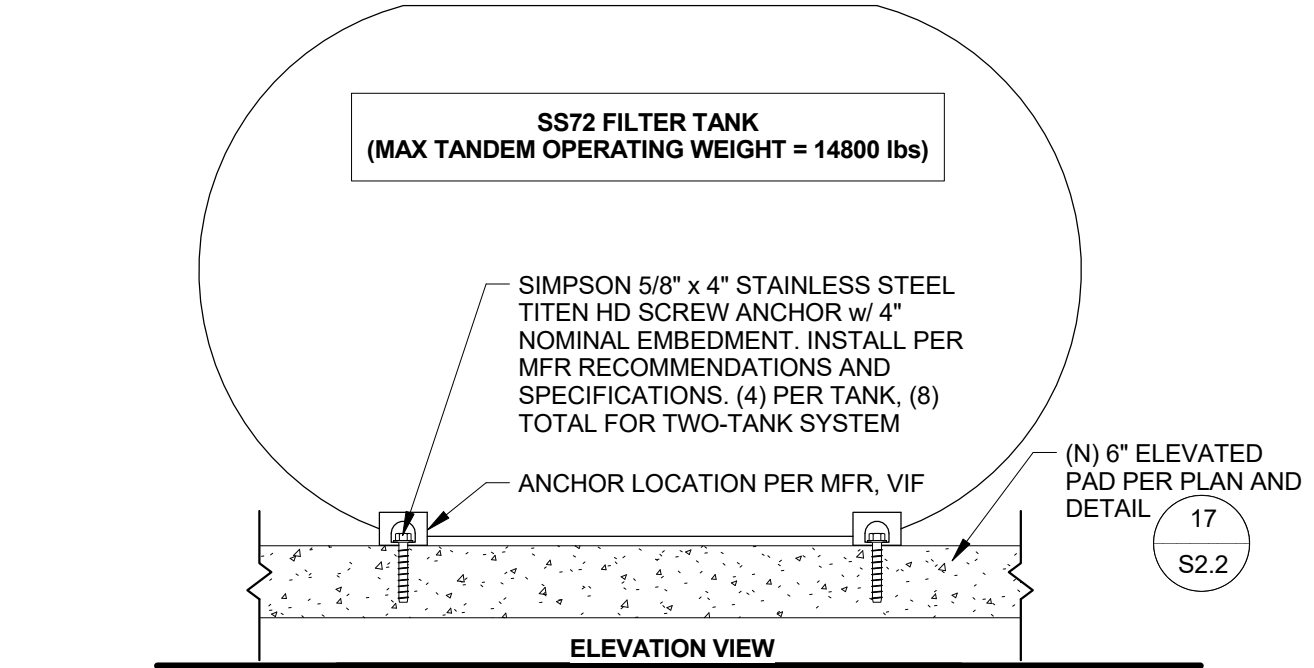
**8** NON STRUCTURAL WALL TO ROOF RAFTERS  
1 1/2" = 1'-0"



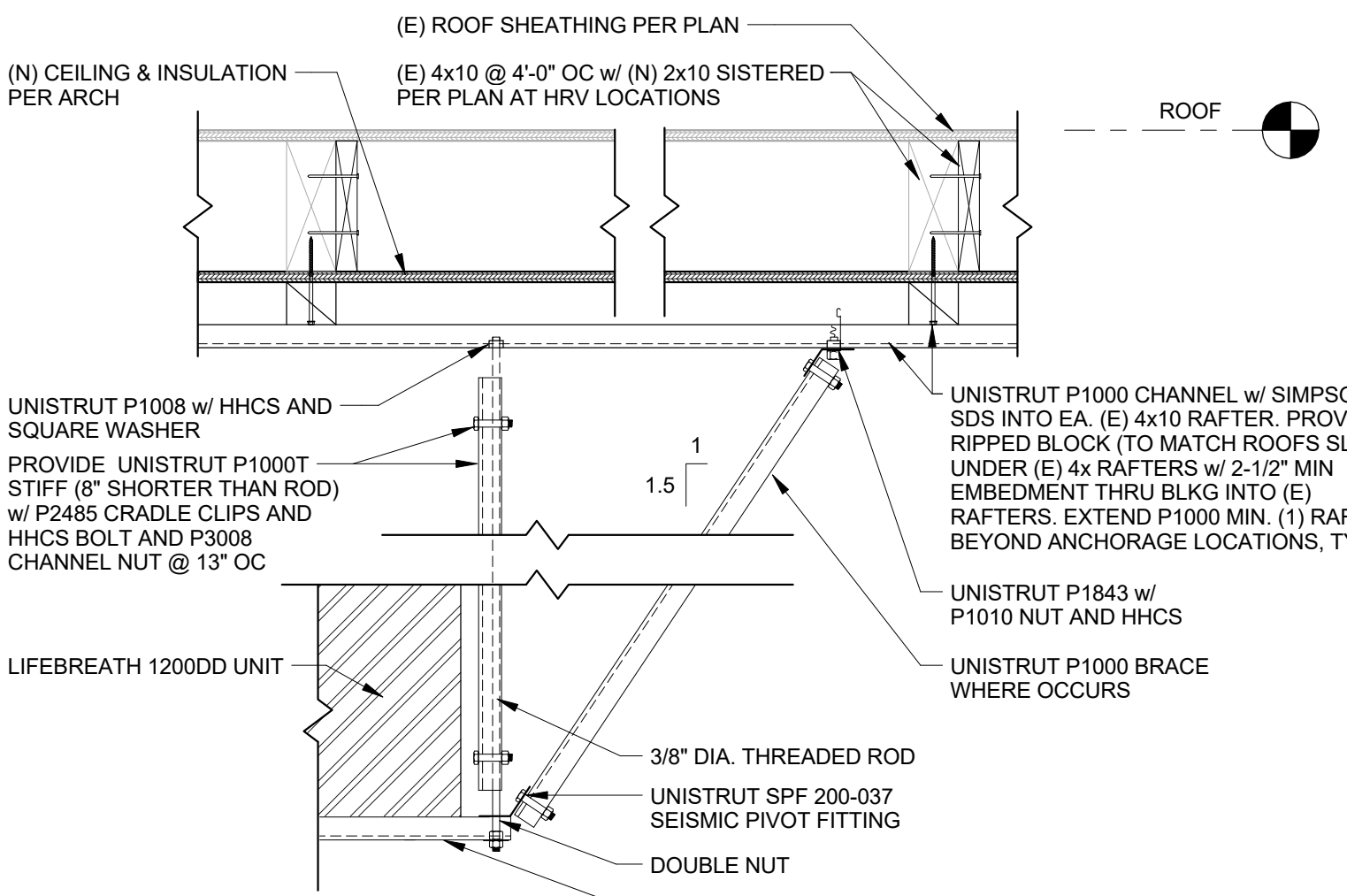
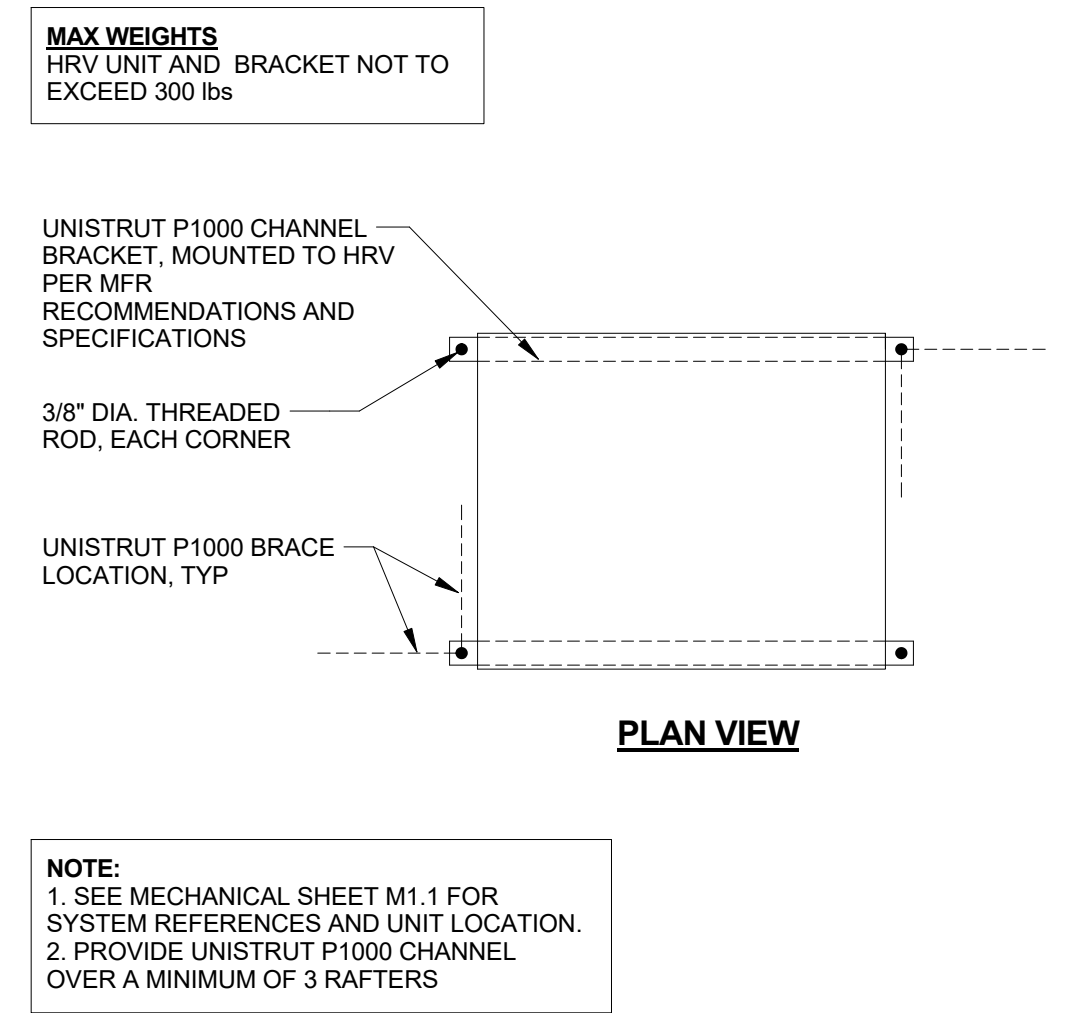
**5** CEILING JOIST FRAMING CROSS SECTION  
1" = 1'-0"



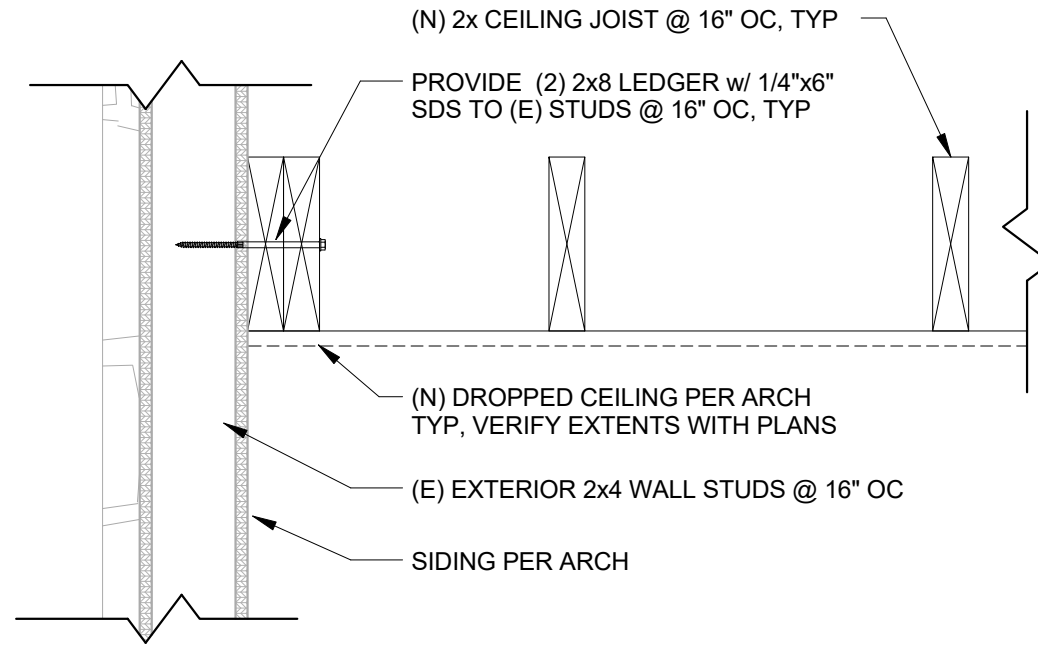
**2** SS72 TANK ANCHORAGE \*SPECIAL INSPECTION REQUIRED  
3/4" = 1'-0"



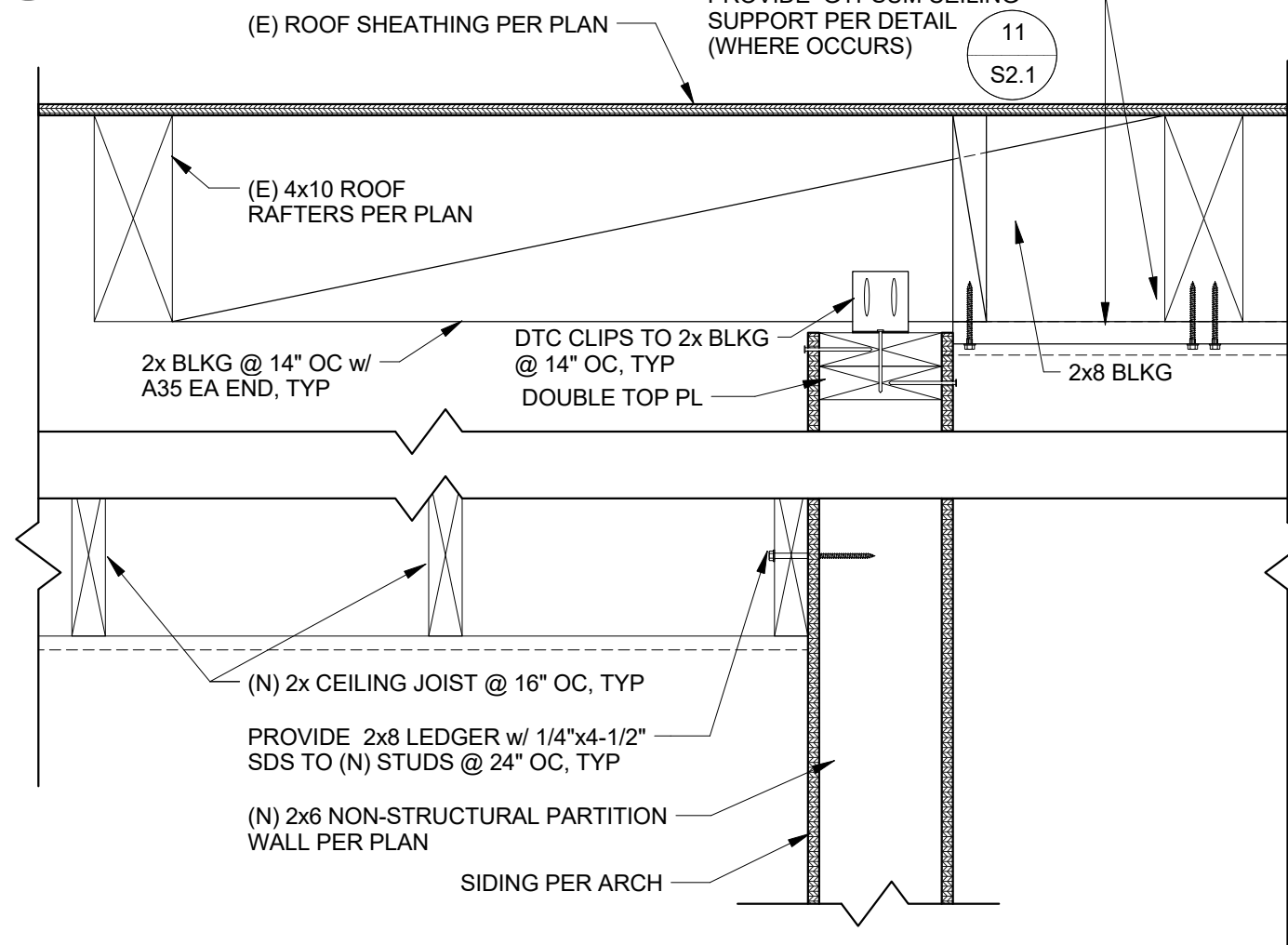
**7** HRV ANCHORAGE AT ROOF  
1" = 1'-0"



**4** ENDWALL CEILING JOIST FRAMING  
1 1/2" = 1'-0"



**1** INTERIOR WALL CEILING JOIST FRAMING  
1 1/2" = 1'-0"



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**POOL BUILDING RENOVATION**  
for  
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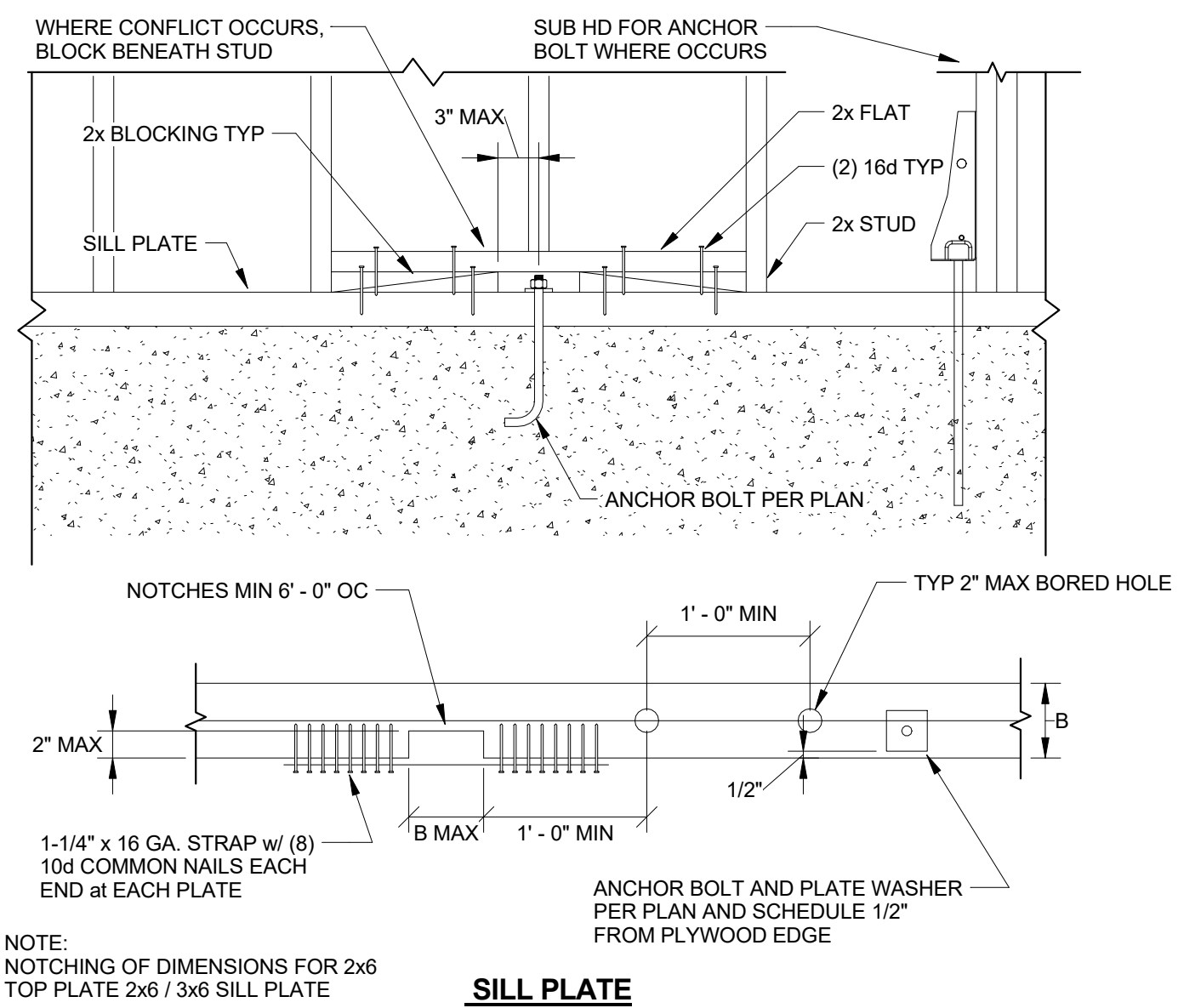
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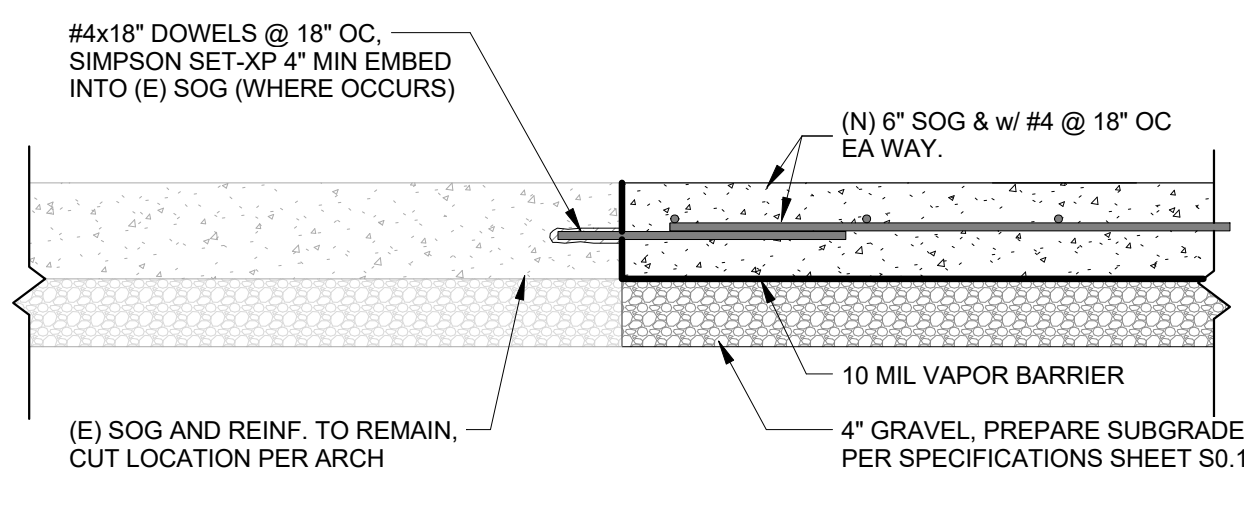
DETAILS  
**S2.1**



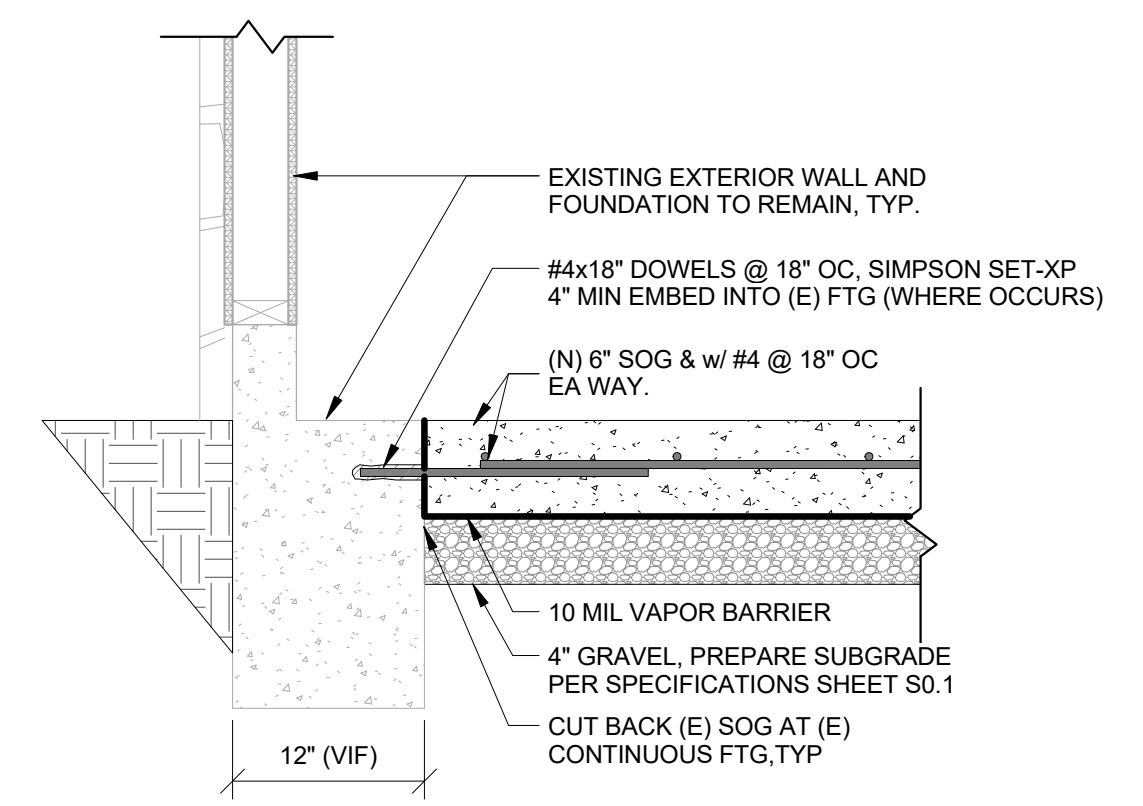
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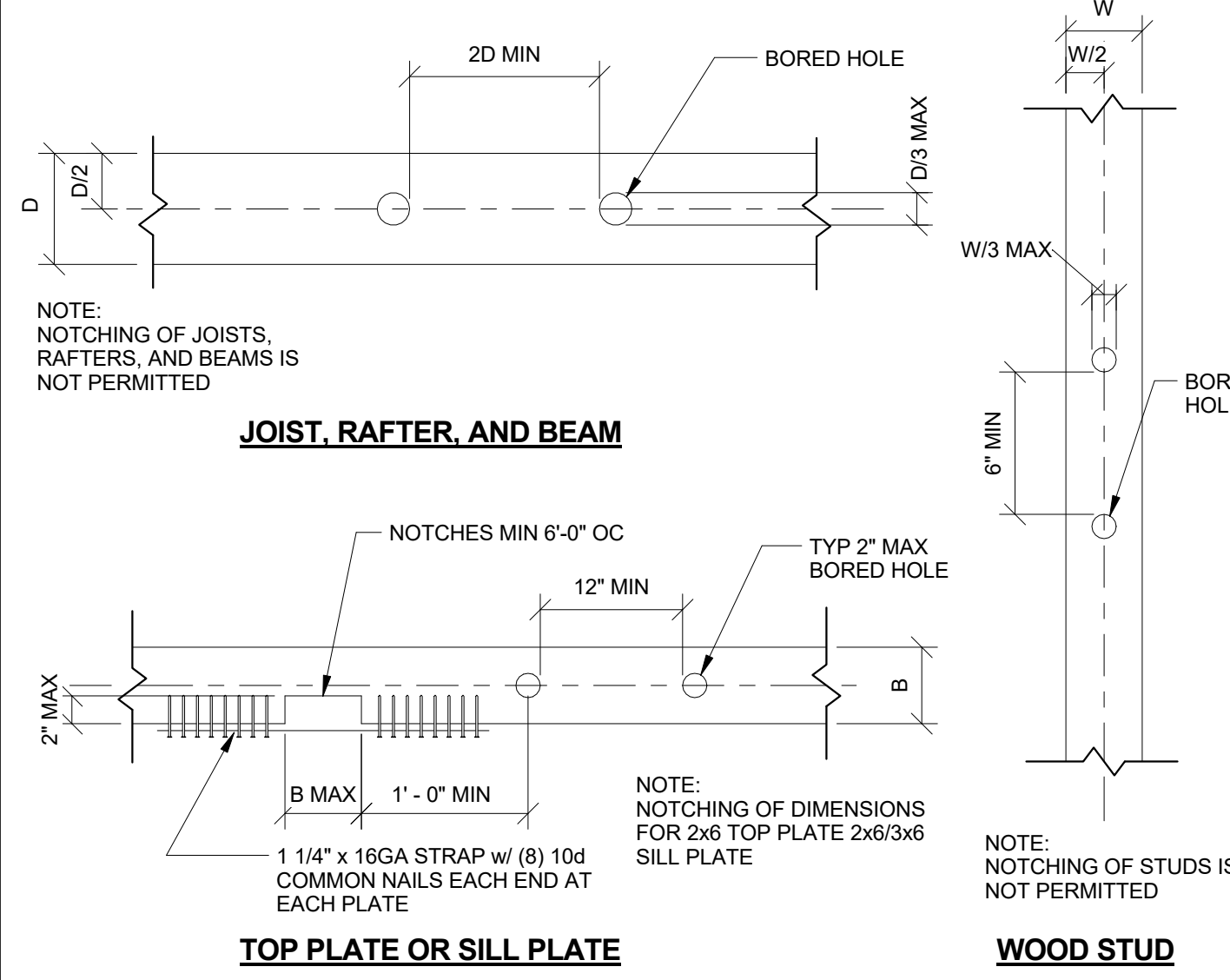
**18** MUDSILL DETAIL  
1" = 1'-0"



**15** NEW SOG TO EXISTING SOG  
1" = 1'-0"



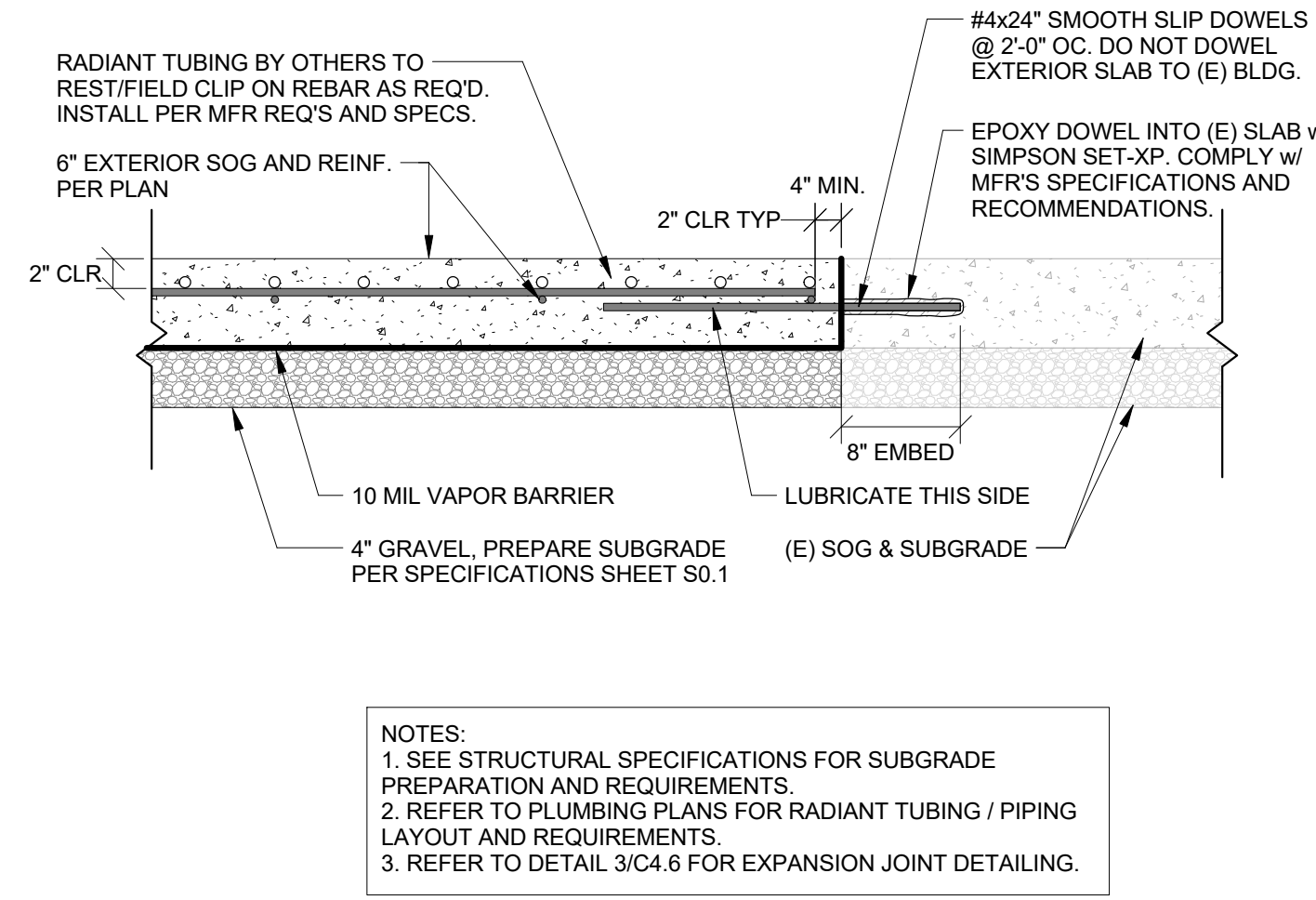
**14** NEW SOG TO (E) EXTERIOR WALLS/FDN  
1" = 1'-0"



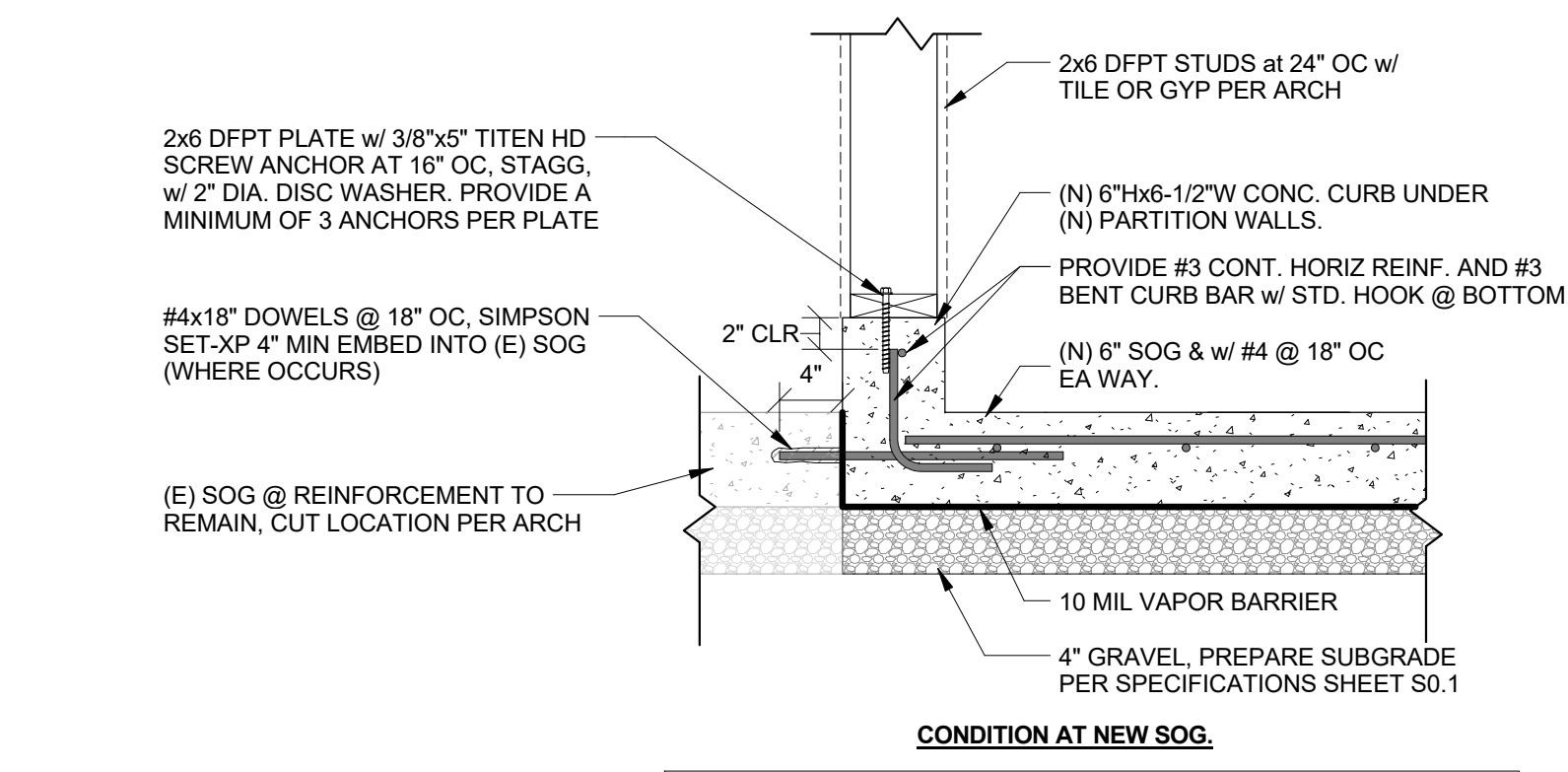
**20** NOTCHES IN FRAMING TYP DETAIL  
1" = 1'-0"

**17** ELEVATED PAD SLAB TO EXISTING SOG  
1" = 1'-0"

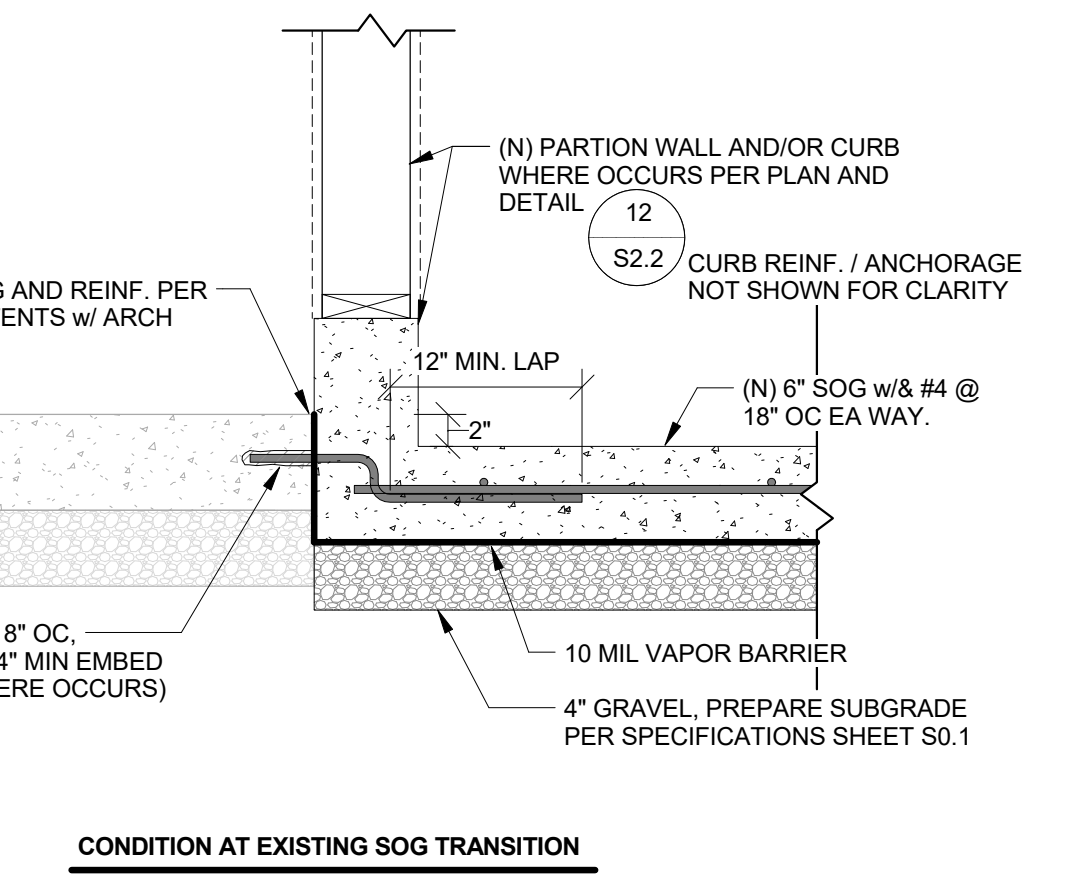
**13** RECESSED SLAB DETAILING  
1" = 1'-0"



**16** EXTERIOR SHOWER SLAB ON GRADE  
1" = 1'-0"



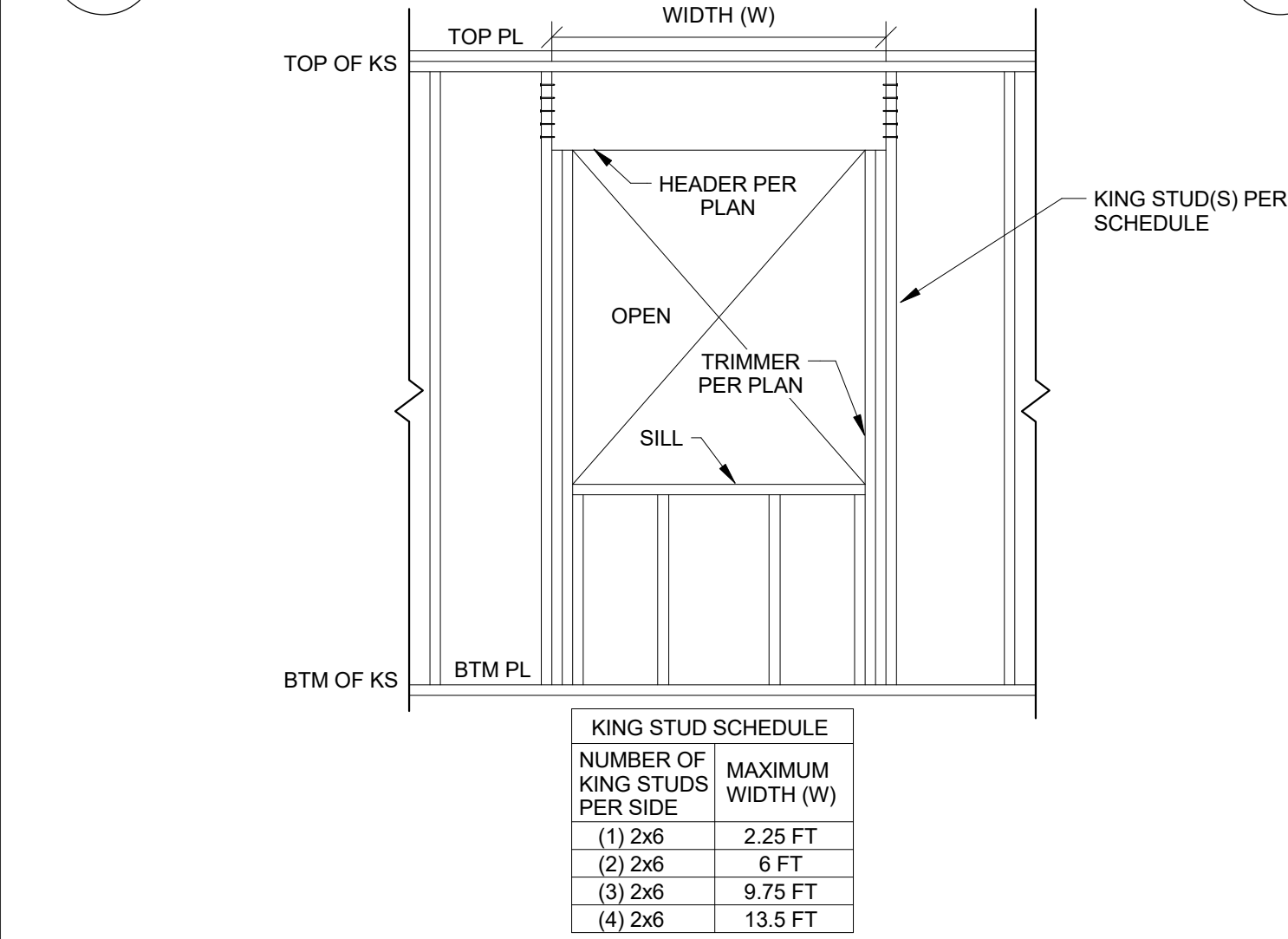
**12** NEW PARTITION WALLS WITH CURB  
1" = 1'-0"



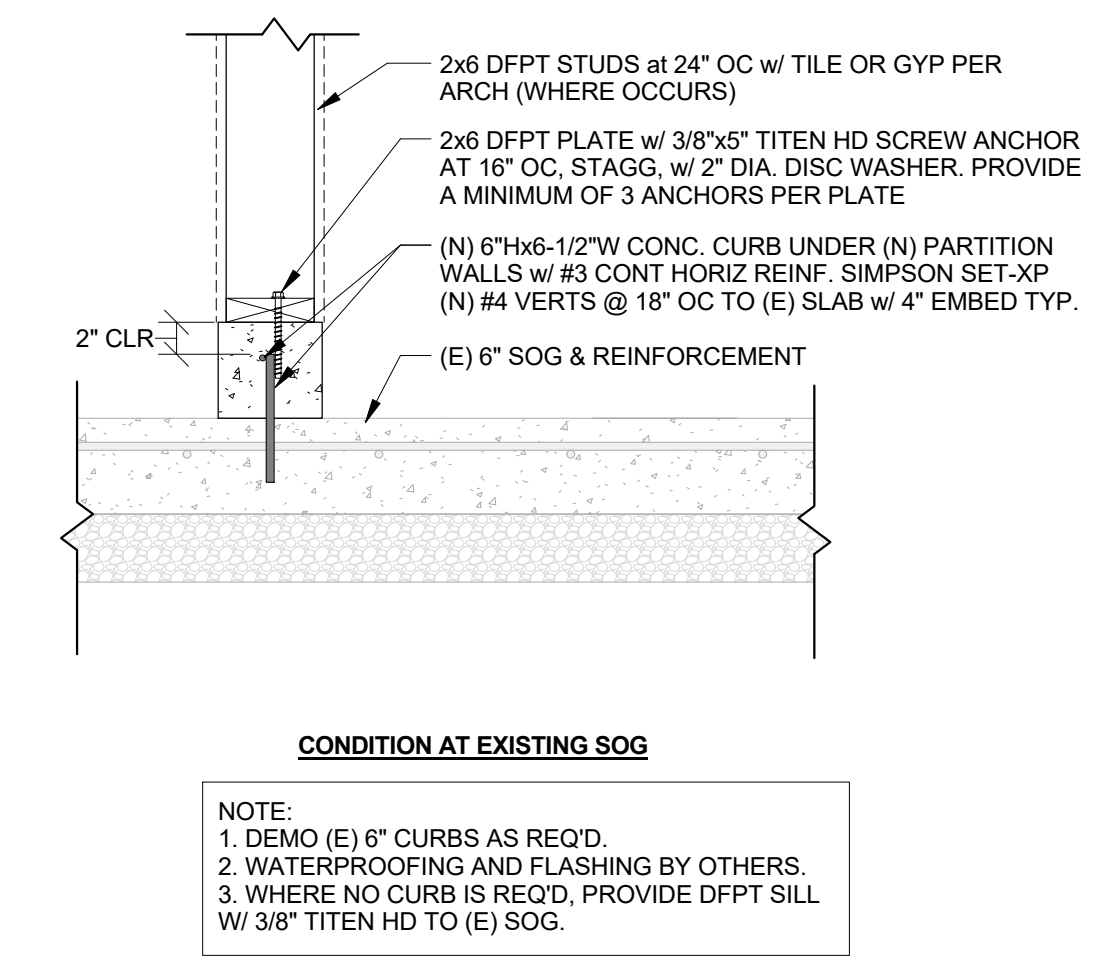
CONDITION AT EXISTING SOG TRANSITION

NOTE:  
SEE STRUCTURAL SPECIFICATIONS AND FOUNDATION PLAN FOR ADDITIONAL REQUIREMENTS

CONDITION AT NEW SOG POUR



**19** HEADER AND KING STUD DETAIL  
1" = 1'-0"



CONDITION AT EXISTING SOG



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DETAILS CONT.  
**S2.2**



UL/CUL SYSTEM NO. W-L-8065  
**MULTIPLE PENETRATING ITEMS THROUGH GYPSUM WALL ASSEMBLY**  
 F-RATING = 1-HR. OR 2-HR.  
 T-RATING = 0-HR.

FRONT VIEW

SECTION A-A

Sheet 1 of 2  
 Scale 3/16" = 1"  
 Date Jan. 15, 2015  
 Drawing No. **WL 8065d**

Hilti Firestop Systems  
 HILTI, Inc.  
 Tulsa, Oklahoma USA (800) 879-8000  
 Saving Lives through Innovation and Education

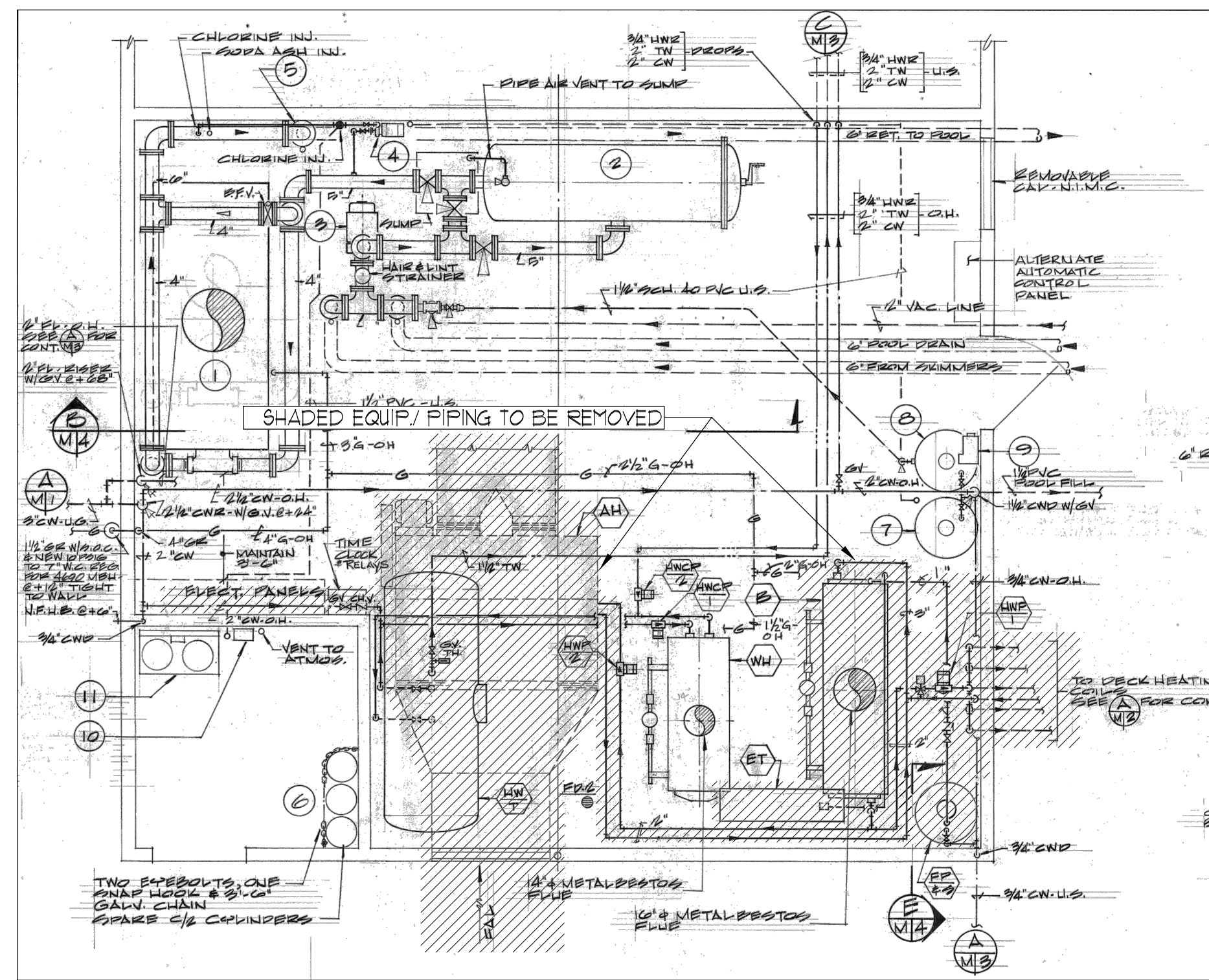
UL/CUL SYSTEM NO. W-L-8065  
**MULTIPLE PENETRATING ITEMS THROUGH GYPSUM WALL ASSEMBLY**  
 F-RATING = 1-HR. OR 2-HR.  
 T-RATING = 0-HR.

- GYPSUM WALL ASSEMBLY (UL/CUL CLASSIFIED U300, U400, OR V400 SERIES) (1-HR. OR 2-HR. FIRE-RATING) (2-HR. SHOWN).
- [NOT SHOWN] WOOD STUDS TO CONSIST OF NOMINAL 2" x 4" LUMBER. STEEL STUDS TO BE MINIMUM 3-1/2" WIDE.
- OPENING TO BE "FRAMED-OUT" WITH ADDITIONAL FRAMING MEMBERS.
- ONE OR MORE OF THE FOLLOWING PIPES, CONDUITS, OR TUBES, AND IN ANY COMBINATION, MAY BE INSTALLED WITHIN THE OPENING:
  - MAXIMUM 3" NOMINAL DIAMETER STEEL PIPE (SCHEDULE 10 OR HEAVIER).
  - MAXIMUM 3" NOMINAL DIAMETER CAST OR DUCTILE IRON PIPE.
  - MAXIMUM 3" NOMINAL DIAMETER COPPER PIPE OR TUBING.
  - MAXIMUM 3" NOMINAL DIAMETER STEEL CONDUIT OR EMT.
  - MAXIMUM 2" NOMINAL DIAMETER PVC PLASTIC PIPE (SCHEDULE 40) (CLOSED OR VENTED PIPING SYSTEM) (CELLULAR OR SOLID CORE).
  - MAXIMUM 2" NOMINAL DIAMETER CPVC PLASTIC PIPE (SDR 13.5) (CLOSED PIPING SYSTEM ONLY)
  - MAXIMUM 2" NOMINAL DIAMETER RIGID NON METALLIC CONDUIT (RNC) (SCHEDULE 40).
  - MAXIMUM 1" NOMINAL DIAMETER CROSS-LINKED POLYETHYLENE (PEX) TUBING (CLOSED PIPING SYSTEM ONLY).
- ONE OR MORE METALLIC PENETRANTS OR TUBES MAY BE INSULATED WITH ANY OF THE FOLLOWING TYPES OF INSULATION:
  - MINIMUM 1" TO MAXIMUM 2" THICK GLASS-FIBER PIPE INSULATION.
  - MINIMUM 1/2" TO MAXIMUM 3/4" THICK AB/PVC PIPE INSULATION.
  - MINIMUM 1" TO MAXIMUM 2" THICK MINERAL FIBER PIPE INSULATION SECURED WITH 18 GA. STEEL WIRE SPACED 12" C/C.
- MAXIMUM 3" DIAMETER CABLE BUNDLE TO CONSIST OF ANY OF THE FOLLOWING:
  - MAXIMUM 25 PAIR NO. 24 AWG TELEPHONE CABLE WITH PVC JACKET.
  - MAXIMUM 7/C NO. 12 AWG COPPER CONDUCTOR WITH PVC JACKET.
  - MAXIMUM 1/2" DIAMETER FIBER OPTIC CABLE WITH PVC JACKET.
  - MAXIMUM 3/C NO. 8 AWG WITH BARE ALUMINUM GROUND STEEL METAL-CLAD CABLE.
  - MAXIMUM 3/C (+GROUND) NO. 12 AWG ROMEX CABLE WITH PVC JACKET.
  - RG/U COAXIAL CABLE (MAXIMUM 1/2" DIAMETER) WITH PVC JACKET.
- MINIMUM 3-1/2" OR 4-3/4" THICKNESS MINERAL WOOL (MINIMUM 4 PCF DENSITY) TIGHTLY PACKED FOR 1-HR. OR 2-HR. FIRE-RATING, RESPECTIVELY.
- MINIMUM 5/8" DEPTH HILTI FS-ONE MAX OR FS-ONE INTUMESCENT FIRESTOP SEALANT.
- MINIMUM 1/4" BEAD HILTI FS-ONE MAX OR FS-ONE INTUMESCENT FIRESTOP SEALANT APPLIED AT POINT OF CONTACT.

NOTES: 1. MAXIMUM SIZE OF OPENING TO BE ONE OF THE FOLLOWING:  
 A. 22-3/4" x 8" IN STEEL STUD WALLS.  
 B. 14-1/2" x 8" IN WOOD STUD WALLS.  
 2. ANNULAR SPACE BETWEEN PENETRANTS = MINIMUM 1", MAXIMUM 22".  
 3. ANNULAR SPACE BETWEEN PENETRANTS AND OPENING = MINIMUM 0", MAXIMUM 22".

Sheet 2 of 2  
 Scale -  
 Date Jan. 15, 2015  
 Drawing No. **WL 8065d**

Hilti Firestop Systems  
 HILTI, Inc.  
 Tulsa, Oklahoma USA (800) 879-8000  
 Saving Lives through Innovation and Education



Revisions

10-2-2018	PLAN CHECK
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**MELAS ENERGY ENGINEERING**  
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 644 Zion Street  
 Nevada City, CA 95959  
 530-278-9415 - 1  
 www.sitelinearch.com

**POTTORFF** 1 1/2 hour • UL class 1 — combination fire smoke damper round blade model **FSD-125R**

**Application**  
 The FSD-125R combination fire smoke damper employs a single round blade for point-of-origin control of fire and smoke in static and dynamic smoke management systems. This unique damper assembly is ideal for all round duct applications. The FSD-125R standard construction, is qualified to 2000 fpm (10.2 m/s) and 4 in. wg. (1.0 kPa) at 250° F (121°C). Optional construction is qualified to 3000 fpm (15.3 m/s) and 4 in. wg. (1.0 kPa) at 350° F (177°C) and may be installed in vertical walls or partitions, or horizontally in floors or assemblies with fire resistance ratings up to 2 hours.

**Standard Construction**  
**Sleeve/Frame:** Integral 16" x 20 gauge (406 x 1.0) galvanized steel with reinforcing beads.  
**Retaining Plates:** Dual sided system suitable for round or square penetrations.  
**Blade:** 14 gauge (2.0) equivalent galvanized steel — round.  
**Axles:** 1" (13) diameter plated steel, D-4" (203), 1" (19), D-8" (203).  
**Linkage:** In the air-stream.  
**Bearings:** Bronze oilite, sleeve-type.  
**Seal:** Silicone blade edge seal.  
**Actuator:** 120 VAC, power-open, spring-close, external mount.  
**Fire Closure Device:** HS-10 (electric actuators) PFV (pneumatic actuators)  
**Fire Closure Temperature:** 165°F (75°C).  
**Minimum Size:** 6" Ø (152 Ø)  
**Maximum Size:** 24" Ø (610 Ø)

**Options**  
 Alternate actuator:  
 24 VAC  230 VAC  Pneumatic  
 DRS-30 — Two temperature fire closure device. (Includes actuator with auxiliary switches)  
 Alternate sleeve/frame length:  
 20" (508)  24" (610).  
 Single-sided mounting plate.  
 Duct access door factory mounted to sleeve/frame.  
 Alternate fire closure temperature:  
 212°F (100°C)  250°F (121°C)  
 350°F (177°C)  
 Remote control stations:  
 RCP-1 (single)  RCP-1K (single, key controlled)  
 RCP-1M (single, momentary switch)  
 Type - 304 stainless steel construction.

Information is subject to change without notice or obligation.  
**POTTORFF**® 5101 Blue Mound Road, Fort Worth, Texas 76106  
 www.pottorff.com

**Actuator and Sleeve Dimensional Data**

The drawings and corresponding table illustrate the position of the damper and the relative space required for a given actuator. The standard mounting locations provide enough space for installation of retaining plates and duct connections.

Damper Diameter	Actuator Models	
	FSL120 FSL24	FSM120 FSM24
6"	3-1/2"	3-1/2"
8"	2-1/2"	2-1/2"
10"	2-1/2"	2-1/2"
12"	2-1/2"	2-1/2"
14"	2-1/2"	2-1/2"
16"	2-1/2"	2-1/2"
18"	2-1/2"	2-1/2"
20"	2-1/2"	2-1/2"
22"	2-1/2"	2-1/2"
24"	2-1/2"	2-1/2"
6-1/4"	0"	0"
8-1/4"	0"	0"
10-1/4"	0"	0"
12-1/4"	0"	0"
14-1/4"	0"	0"
16-1/4"	0"	0"
18-1/4"	0"	0"
20-1/4"	0"	0"
22-1/4"	0"	0"
24-1/4"	0"	0"

**Pressure Drop Performance Data**

Pressure drop testing was performed in accordance with AMCA Standard 500-D. All data has been corrected to represent air density of 0.075 lb/ft. Actual pressure drop in any ducted HVAC system is a combination of many elements. This information, along with analysis of other system influences, should be used to estimate actual pressure losses for a damper installed in a given HVAC system.

Information is subject to change without notice or obligation.  
**POTTORFF**® 5101 Blue Mound Road, Fort Worth, Texas 76106  
 www.pottorff.com

**METAL PIPE THROUGH 1 OR 2 HR WALL ASSEMBLY**  
 UL • WL028 SCALE: NONE

- GYPSUM WALL ASSEMBLY (1 OR 2 HR FIRE RATING) (2 HR SHOWN) SEE ARCHITECTURAL WALL DETAIL
- PENETRATING ITEM TO BE ONE OF THE FOLLOWING:  
 A. MAX. 4" STEEL PIPE (SCH. 40 OR HEAVIER)  
 B. MAX. 2" COPPER PIPE OR TUBING
- MIN. 1/2" TO MAX. 3/4" THICK AB/PVC FOAM PIPE INSULATION
- HILTI FS-ONE FIRESTOP SEALANT:  
 A. MIN. 3/8" DEPTH HILTI FS-ONE MAX OR FS-ONE INTUMESCENT FIRESTOP SEALANT, OR EQ.
- MIN. 1/2" BEAD HILTI FS-ONE MAX OR FS-ONE INTUMESCENT FIRESTOP SEALANT, OR EQUAL, APPLIED AT POINT OF CONTACT.

NOTES:  
 1. MAXIMUM DIA. OF OPENING = 7 1/2"  
 2. ANNULAR SPACE = Ø" MIN., 1 1/2" MAX.

**MODEL FSD-125R DAMPER With DRS-30**

- Clip angle
- Guide plate
- Holding plate
- DRS-30 two temperature manually re-settable link/dual position indicator switch
- Electrical flex conduit
- Actuator
- FSD-125R true round combination fire smoke damper
- Duct
- UL555 & UL555S listing #: R11767  
 CSFM listing #: 3225-0368:112 & 3230-0368:113  
 MEA listing #: 295-98E

Pool Building Renovation for  
**NJUHS**  
 NEVADA UNION HIGH SCHOOL, GRASS VALLEY, CA

7-25-2018

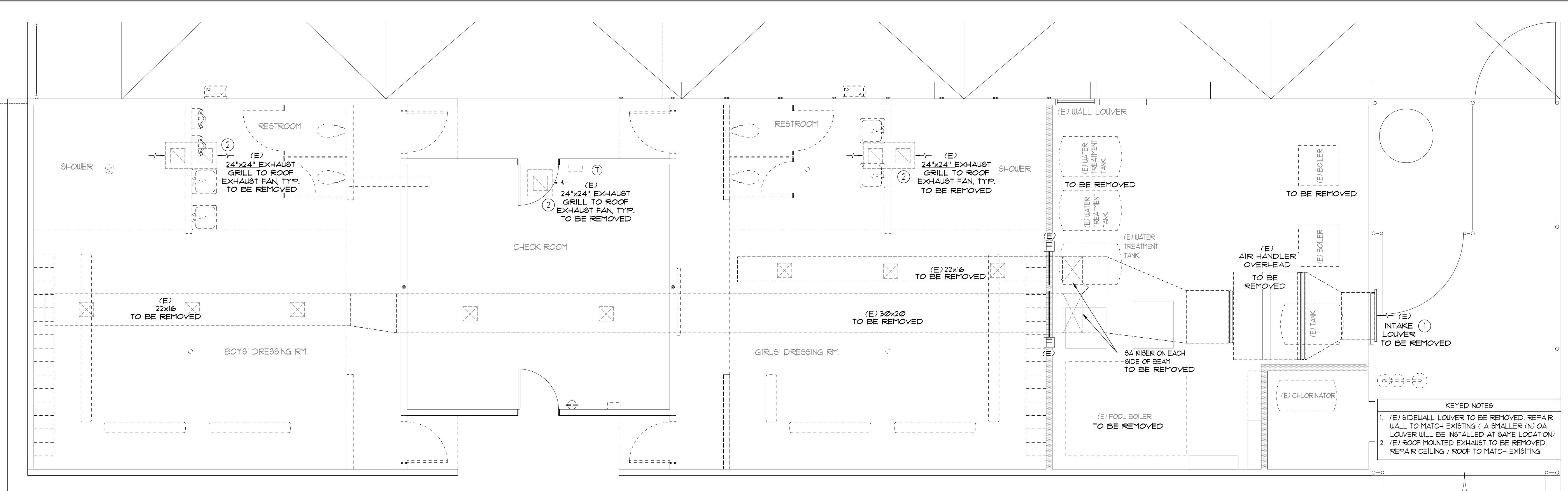
18-089

MECHANICAL DETAILS

**M0.2**

15 | 14 | 13 | 12 | 11 | 10 | 9 | 8 | 7 | 6 | 5 | 4 | 3 | 2 | 1

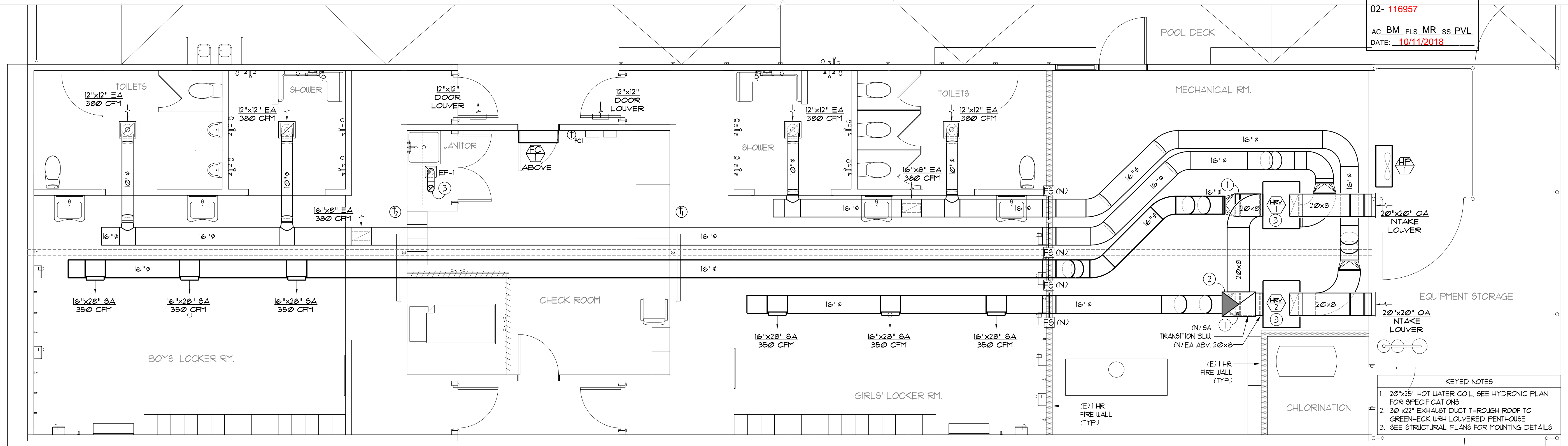
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**HVAC FLOOR PLAN - (E) & DEMOLITION**  
SCALE: 1/4" = 1'-0"

FILE NUMBER: 14-C1  
IDENTIFICATION STAMP  
DIVISION OF THE STATE ARCHITECT  
02-116957  
AC: BM, FLS, MR, SS, PVL  
DATE: 10/11/2018

**KEYED NOTES**  
1. (E) SIDEWALL LOUVER TO BE REMOVED REPAIR WALL TO MATCH EXISTING (A SMALLER (N) OA LOUVER WILL BE INSTALLED AT SAME LOCATION)  
2. (E) ROOF MOUNTED EXHAUST TO BE REMOVED, REPAIR CEILING / ROOF TO MATCH EXISTING



**HVAC FLOOR PLAN**  
SCALE: 1/4" = 1'-0"

**KEYED NOTES**  
1. 20"x25" HOT WATER COIL. SEE HYDRONIC PLAN FOR SPECIFICATIONS  
2. 30"x22" EXHAUST DUCT THROUGH ROOF TO GREEN-DECK WITH LOUVERED PENTHOUSE  
3. SEE STRUCTURAL PLANS FOR MOUNTING DETAILS



**Revisions**

10-2-2018	PLAN CHECK
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**Pool Building Renovation**  
for  
**NJUHSD**  
NEVADA UNION HIGH SCHOOL, GRASS VALLEY, CA

DATE:	7-25-2018
ISSUE NO.:	18-089

HVAC FLOOR PLANS  
**M1.1**

15 | 14 | 13 | 12 | 11 | 10 | 9 | 8 | 7 | 6 | 5 | 4 | 3 | 2 | 1

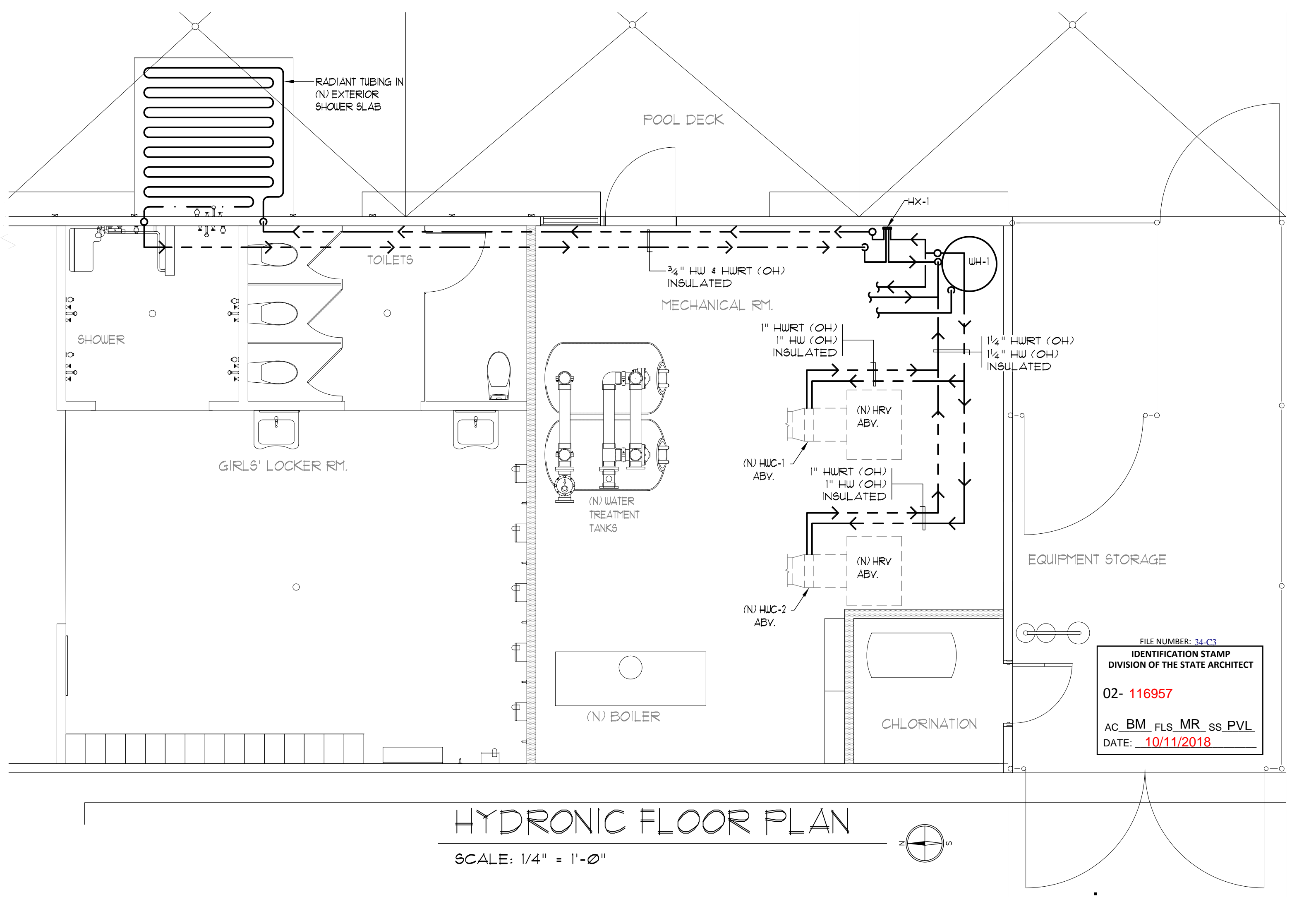
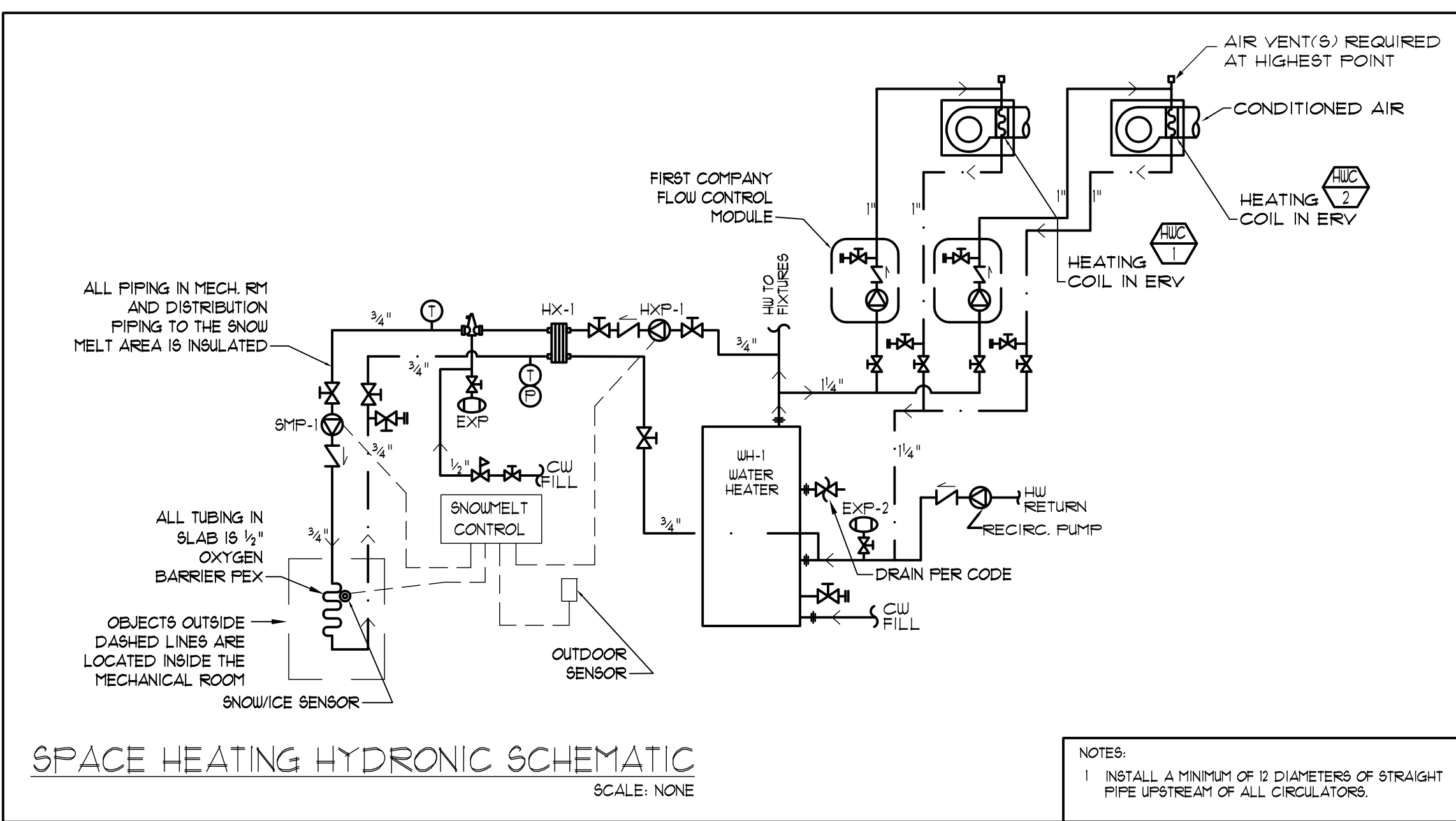
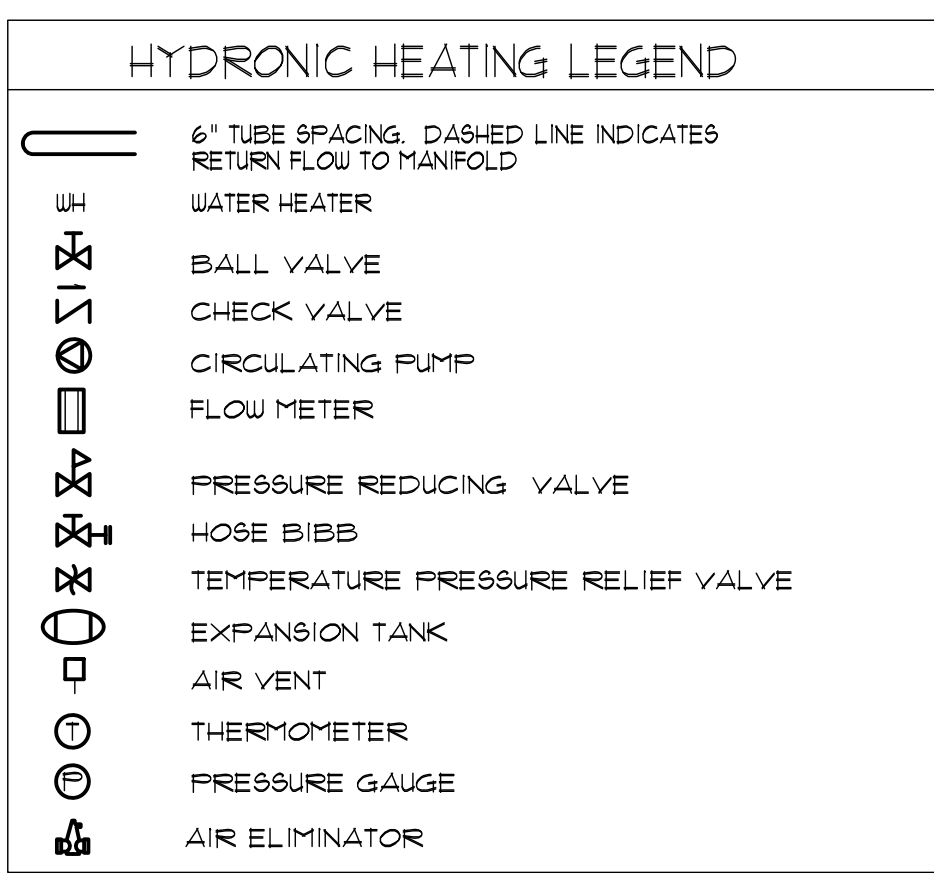
HYDRONIC EQUIPMENT LIST AND NOTES

155 HYDRONIC SPACE HEATING SYSTEM

PRIMARY COMPONENTS (REFER TO SCHEMATIC)

- 101 GENERAL REQUIREMENTS
  - a) INSTALL ACCORDING TO MANUFACTURER'S INSTALLATION INSTRUCTIONS.
  - b) PROVIDE PRESSURE & TEMPERATURE RELIEF VALVE TERMINATING AT EXTERIOR OF BUILDING.
- 102 WATER HEATER (WH-1)
  - SUPPLY AND INSTALL ONE (1) 'CYCLONE MX1 MODULATING' GAS FIRED WATER HEATER MODEL #ETH-500(A), OR EQUIVALENT. REFER TO PLUMBING EQUIPMENT SCHEDULE, SHEET P01.
- 103 FLAT PLATE HEAT EXCHANGER (HX-1)
  - SUPPLY AND INSTALL ONE (1) 'FLAT PLATE' BRAZED FLAT PLATE HEAT EXCHANGER, MODEL #P BX1-4 (0.75" MFT) AS MANUFACTURED BY FLATPLATE.
    - a) SIDE A: P. DROP=4.9 FT, FLOW=0.6 GPM.
    - b) SIDE B: P. DROP=2.5 FT, FLOW=0.6 GPM.
    - c) HEAT TRANSFER=5,500 BTU/H.
    - d) DIMENSIONS: 4.9"X12.2"X10.1"D, 4.5 LBS.
- 104 PUMP (SMP-1) - SNOW MELT PUMP
  - TO BE TACO, MODEL #206-B4, OR EQUAL. BRONZE CASING WITH STAINLESS STEEL CARTRIDGE. UNIT SPECIFICATIONS ARE: 1/40 HP, 115 VOLTS/0.52 AMP, 4.5 FT HEAD AT 5 GPM. USE TACO BRONZE SHUTOFF FREEDOM FLANGES.
- 105 PUMP (HXP-1) - HEAT EXCHANGER PUMP - WATER HEATER SIDE
  - TO BE TACO, MODEL #203-B, OR EQUAL. BRONZE CASING WITH STAINLESS STEEL CARTRIDGE. UNIT SPECIFICATIONS ARE: 1/40 HP, 115 VOLTS/0.43 AMP, 4.25 FT HEAD AT 3 GPM.
- 106 HOT WATER CASED DUCT HEATING COIL - HUC-1
  - TO BE FIRST COMPANY, MODEL #HUC2015, OR EQUAL. HOT WATER COIL TO BE SERVED WITH HOT WATER FROM THE WATER HEATER WH-1.
    - a) HEAT OUTPUT AT 5 GPM WATER FLOW AND 1050 CFM AIRFLOW IS 54,000 BTU/HR
    - b) FACE AREA IS 20'X25'
    - c) COIL DIMENSIONS: WIDTH=23-1/4" HEIGHT=22", DEPTH=3-7/8"
    - d) PROVIDE FLOW CONTROL MODULE MODEL #340-2 CV; PUMP PROVIDES 1 GPM.
- 107 HOT WATER CASED DUCT HEATING COIL - HUC-2
  - TO BE FIRST COMPANY, MODEL #HUC2015, OR EQUAL. HOT WATER COIL TO BE SERVED WITH HOT WATER FROM THE WATER HEATER WH-1.
    - a) HEAT OUTPUT AT 5 GPM WATER FLOW AND 1050 CFM AIRFLOW IS 54,000 BTU/HR
    - b) FACE AREA IS 20'X25'
    - c) COIL DIMENSIONS: WIDTH=23-1/4" HEIGHT=22", DEPTH=3-7/8"
    - d) PROVIDE FLOW CONTROL MODULE MODEL #340-2 CV; PUMP PROVIDES 1 GPM.
- 108 AIR ELIMINATOR
  - TO BE VORTECH MICROBUBBLE AIR ELIMINATOR WITH TACO BRONZE AIR SEPARATOR MODEL #VRTX015B-1. 3/4" CONNECTIONS, BRONZE BODY.
- 109 THERMOMETERS & PRESSURE GAUGE
  - TO BE MILCOO CO. OR EQUAL. UNIT SPECIFICATIONS ARE: 10°F-250°F TEMPERATURE RANGE, 0-60 PSI PRESSURE RANGE.
- 110 FILL VALVE/PRESSURE REDUCING VALVE
  - SHALL BE TACO VALVE, MODEL #335, AS MANUFACTURED BY TACO INDUSTRIES, OR EQUAL. UNIT SPECIFICATIONS ARE: BRONZE CONSTRUCTION, SIZE=1/2" SWEAT INLET, 1/2" NPT OUTLET. VALVE HAS FAST FILL BYPASS CAPABILITY. FILL (PRV) VALVE FACTORY SET FOR 12 PSIG AUTO-FILL.
- 111 BALL VALVES
  - TO BE APOLLO #CONB 10-204-01 (3/4" SWEAT) & #CONB 10-205-01 (1" SWEAT), #CONB 10-206-01 (1" SWEAT), BRASS BODY, OR EQUAL.
- 112 EXPANSION TANK (EXP-1) - SNOWMELT SYSTEM
  - EXPANSION TANK SHALL BE H2-PRO DIAPHRAGM TYPE EXPANSION TANK, MODEL # HTX 15, AS MANUFACTURED BY FLEXCON INDUSTRIES, RANDOLPH, MASS. (40) 941-0480, OR EQUAL. UNIT SPECIFICATIONS ARE: TANK VOLUME = 21 GALLONS, ACCEPTANCE VOLUME = 10 GAL., CONNECTION = 1/2" MNPT. TANK IS PRECHARGED TO 12 PSIG. MAX. TEMP. = 240°F. MAX. PRESSURE = 60 PSIG. DIAMETER=8", HEIGHT=12.5", WEIGHT=5.5 LBS.
- 113 EXPANSION TANK (EXP-2) - POTABLE SYSTEM
  - EXPANSION TANK SHALL BE FLEXCON "UH" SERIES EXPANSION TANK, MODEL # UH-18, AS MANUFACTURED BY FLEXCON INDUSTRIES, RANDOLPH, MASS. (40) 941-0480, OR EQUAL. UNIT SPECIFICATIONS ARE: TANK VOLUME = 42 GALLONS, FITTING SIZE = 3/4" MNPT, DIA = 10", HEIGHT = 15", WEIGHT = 10 LB.
- 114 CHECK VALVES
  - TO BE WATTS #20 CHECK VALVE. SIZE CHECK VALVE TO FIT THE LINE IT IS INSTALLED ON (FROM 1/2" - 1"). UNIT SPECIFICATIONS ARE: BRONZE BODY, INTEGRAL BRASS SEAT, SOLDERED ENDS, VITON DISK, VERTICAL OR HORIZONTAL MOUNT.
- 115 PIPING
  - ALL PIPING LOCATED WITHIN THE MECHANICAL ROOM IS TO BE TYPE L COPPER

- PIPE. ALL PIPING IN GROUND BELOW BUILDING IS TO BE REHAU® OXYGEN-BARRIER PEX PIPING. NO PIPE FITTINGS ARE ALLOWED IN PIPING BELOW GRADE. PIPE SIZES ARE TO BE AS INDICATED ON THE SYSTEM SCHEMATIC AND/OR AS RECOMMENDED BY THE SYSTEM INSTALLER AND BOILER MANUFACTURER. ALL PIPING IS TO BE INSULATED.
- 116 PIPE INSULATION
  - TO BE (MIN) 3/4" WALL THICKNESS K-FLEX L8 SELF-SEAL PIPE INSULATION OR EQUAL. SPECIFICATIONS ARE: R-5. IN OUTDOOR EXPOSED AREAS USE R-314 PROTECTIVE COATING OR K-FLEX AL CLAD TO PROTECT AGAINST UV DAMAGE. FOR BELOW GRADE APPLICATIONS THE PIPE AND INSULATION SHOULD BE ENCASED IN CONDUIT. INSTALL ON ALL DOMESTIC HOT WATER AND SPACE HEATING PIPING.
- 117 SNOWMELT FLOOR SYSTEM
  - a) SUPPLY AND INSTALL ONE (1) TEKMAR SNOWMELT CONTROL, MODEL #610. CONTROL SHALL USE THE SNOW SENSOR TO AUTOMATICALLY ACTIVATE THE SNOWMELT PUMPS SMP-1 & HXP-1 WHEN IT SENSES SNOW. CONTROL SHALL ENABLE WATER HEATERS CUT OFF TO ENSURE THE SNOWMELT PUMP DOES NOT ACTIVATE WHEN THE TEMPERATURE IS ABOVE 40°F.
  - b) SUPPLY AND INSTALL ONE (1) TEKMAR SNOW/ICE SENSOR MODEL #090 & SENSOR WELL MODEL #091.
  - c) SUPPLY AND INSTALL ONE (1) TEKMAR OUTDOOR SENSOR MODEL # 010. LOCATE IN A SHADED AREA OF SNOWMELT AREA OUT OF DIRECT SUN AND WIND.
  - d) ALL LOW VOLTAGE WIRING FOR CONTROLS AND SENSORS IS THE RESPONSIBILITY OF THE MECHANICAL/HVAC CONTRACTOR. ALL CONDUIT PULLS (AND LOW VOLTAGE WIRING INSTALLATION) IS TO BE COORDINATED WITH ELECTRICAL CONTRACTOR DURING CONSTRUCTION.
  - e) INSTALLING SUBCONTRACTOR IS TO SELECT, SUPPLY & INSTALL REQUIRED RELAYS, TRANSFORMERS AND OTHER MISCELLANEOUS CONTROL SYSTEM COMPONENTS.
- 118 PE PROTECTION SLEEVE
  - INSTALL REHAU PE PROTECTION SLEEVE AT ALL EXPANSION & CONSTRUCTION JOINTS, AND AT WALL & SLAB PENETRATIONS TO PROTECT THE PEX TUBING.
- 119 FITTINGS
  - NO JOINTS ARE ALLOWED IN TUBING WITHIN THE CONCRETE (SEE 'TUBING JOINTS' BELOW). ACUTELY INSERT FITTINGS SHALL NOT BE USED.
- 120 TUBING JOINTS
  - NO MECHANICAL TUBING JOINTS SHALL BE PLACED IN THE CONCRETE SLAB (FUSION FITTINGS ARE ALLOWED BY CODE BUT ARE TO BE AVOIDED).
- 121 BEND RADIUS
  - THE BEND RADIUS SHALL BE IN ACCORDANCE WITH UNIFORM PLUMBING CODE AND SHALL NOT BE LESS THAN 10 TIMES THE TUBING DIAMETER UNLESS APPROVED BY TUBING MANUFACTURER.
- 122 SPACING
  - TUBE SPACING SHALL NOT VARY BY MORE THAN 20% CENTER-TO-CENTER FROM THAT SHOWN IN THE SPECIFICATIONS TABLE ABOVE UNLESS OTHERWISE INDICATED.
- 123 CLEARANCE REQUIREMENTS
  - TUBING SHALL NOT BE INSTALLED CLOSER THAN 6" FROM EXTERIOR WALL PLATES AND INTERIOR WALL PLATES, BRACKETS, TRACKS, WATER CLOSETS, OR OTHER FIXTURES WHICH MAY BE ANCHORED TO THE FLOOR WITH METAL FASTENERS OR DRIVEN BY CONCRETE NAILS.
- 124 PRESSURE TEST
  - THE INSTALLED TUBING SHALL BE PRESSURE TESTED AT 100 PSI OR 15 TIMES THE MAXIMUM OPERATING PRESSURE, WHICHEVER IS GREATER FOR AT LEAST 30 MINUTES PRIOR TO AND DURING THE POURING OF CONCRETE.
- 125 FREEZE PROTECTION - SNOWMELT SYSTEM
  - ADD DOUFROST HD HEAT TRANSFER FLUID, AS MANUFACTURED BY DOW CHEMICALS TO A PROPORTION OF 30% GLYCOL/WATER CONTENT (FOR A TOTAL OF 0.6 GALLONS OF GLYCOL). 94% PROPYLENE GLYCOL, FLUORESCENT YELLOW (TO AID IN DETERMINING IF A LEAK IS PRESENT), TEMPERATURE RANGE OF -60°F TO 325°F.
- 126 FITTINGS
  - THE ONLY ACCEPTABLE METHOD FOR JOINING BURIED PEX IS BY A HEAT FUSION PROCESS. FUSION TRANSITION FITTINGS WITH THREADS SHALL BE USED TO ADAPT TO COPPER AND HIGH STRENGTH HOSE.
- 127 BEND RADIUS
  - THE BEND RADIUS SHALL BE IN ACCORDANCE WITH UNIFORM PLUMBING CODE AND SHALL NOT BE LESS THAN 10 TIMES THE TUBING DIAMETER UNLESS APPROVED BY TUBING MANUFACTURER.
- 128 SPACING
  - PIPE SPACING SHALL BE A MINIMUM OF 12" FROM ANY OTHER PIPING CIRCULATING CONDENSER WATER.
- 129 PRESSURE TEST
  - ALL LOOPS SHALL BE PRESSURE TESTED BEFORE INSTALLATION FOR AND ALL HORIZONTAL COMPONENTS OF THE GROUND HEAT EXCHANGER SHALL BE PRESSURE TESTED PRIOR TO BACKFILLING. TEST PRESSURES SHALL BE 300% OF SYSTEM OPERATING PRESSURE.



Revisions
10-2-2018 PLAN CHECK

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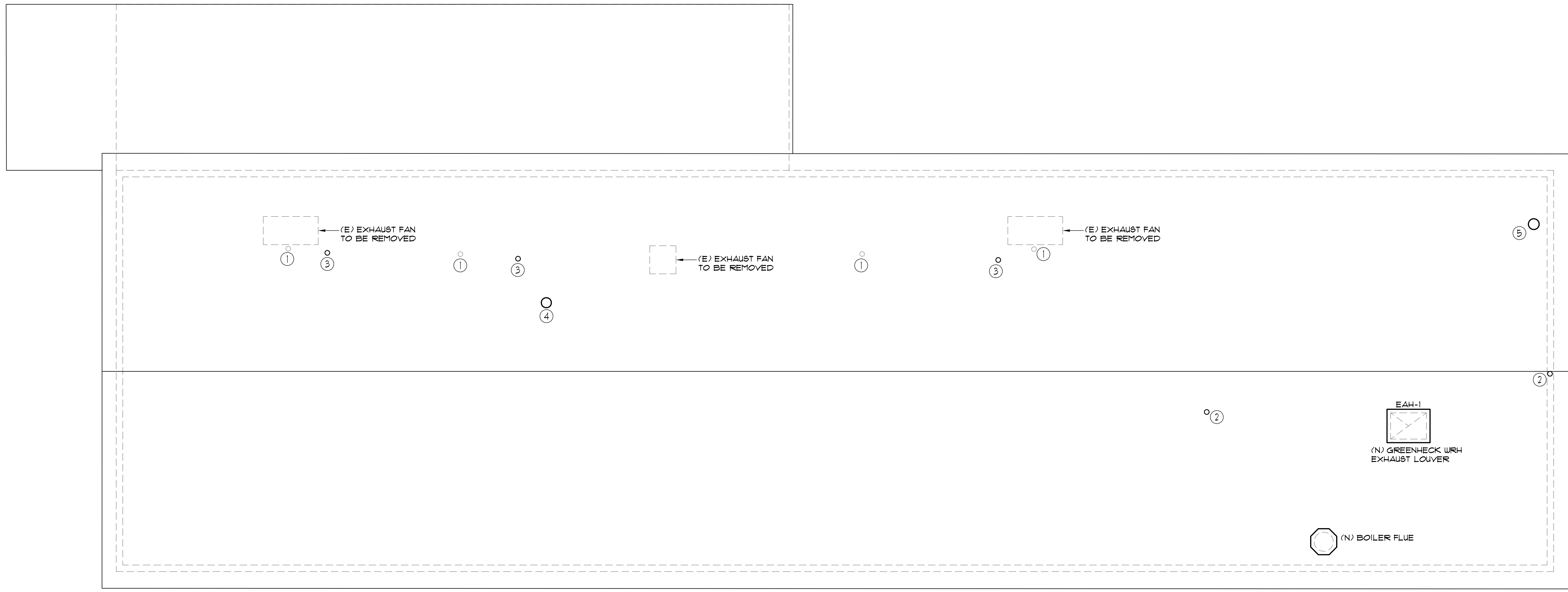
**Pool Building Renovation**  
 for  
**NJUHS**  
 NEVADA UNION HIGH SCHOOL, GRASS VALLEY, CA

date:	7-25-2018
code:	
project no.:	18-089
date:	

POOL BUILDING RADIANT PLAN  
**M1.2**

RELIEF HOOD SCHEDULE															
SYMBOL	DESCRIPTION	Qty.	THROAT DIMENSIONS		UNIT DIMENSIONS		CURB CAP			MFR & MODEL NO.	WEIGHT (LBS)	VOLUME			REMARKS
			W (IN.)	L (IN.)	H (IN.)	W (IN.)	D (IN.)	W (IN.)	L (IN.)			CFM	S.P. (WC)	(FPM)	
EAH-1	LOUVERED PENTHOUSE EXHAUST AIR RELIEF HOOD	1	22	30	16	36	44	30	38	GREENHECK WRH-22X30	65	2,280	0.04	500	GALVANIZED STEEL CONSTRUCTION WITH BIRDSCREEN UNIT SHALL BE HINGED OPEN

NOTES:  
 (1) UNITS SHALL BE INSTALLED ON PRE-FAB CURBS CONSTRUCTED OF 18 GAGE GALVANIZED STEEL. CURBS SHALL BE 12" IN HEIGHT (MIN.).  
 (2) REFER TO STRUCTURAL PLANS FOR CURB MOUNTING DETAILS.



FILE NUMBER: 34-C3  
 IDENTIFICATION STAMP  
 DIVISION OF THE STATE ARCHITECT  
 02- 116957  
 AC\_BM\_FLS\_MR\_SS\_PVL  
 DATE: 10/11/2018

KEYED NOTES  
 1. (E) PLUMBING VENT TO BE REMOVED  
 2. (E) PLUMBING VENT TO REMAIN  
 3. (N) PLUMBING VENT  
 4. (N) EXHAUST VENT CAP  
 5. (N) CONCENTRIC COMBUSTION INTAKE/EXHAUST VENT

MECHANICAL ROOF PLAN  
 SCALE: 1/4" = 1'-0"



Revisions
10-2-2018 PLAN CHECK

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Pool Building Renovation  
 for  
 NJUHSD  
 NEVADA UNION HIGH SCHOOL, GRASS VALLEY, CA

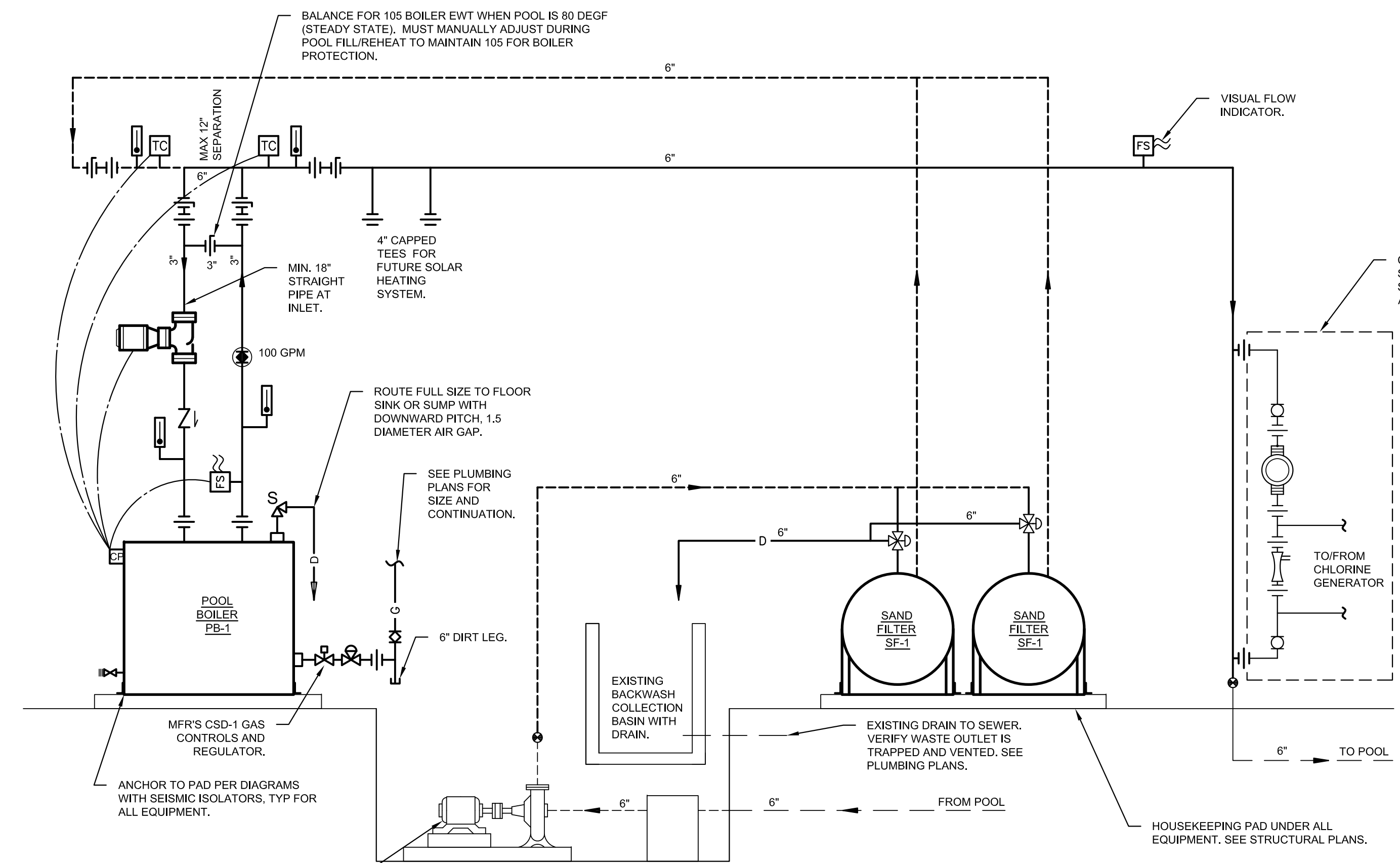
DATE: 7-25-2018  
 PROJECT NO.: 18-089

MECHANICAL ROOF PLAN  
**M2.1**



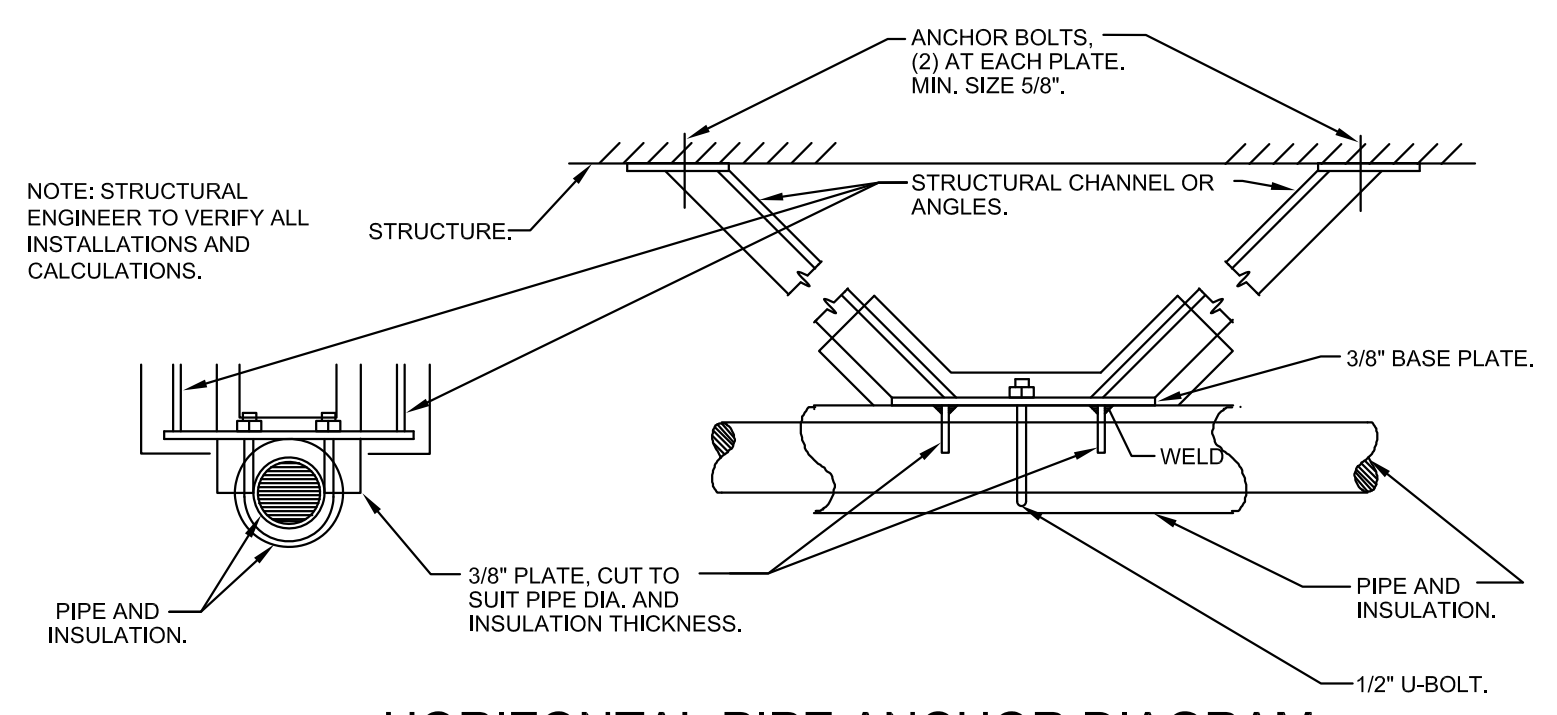




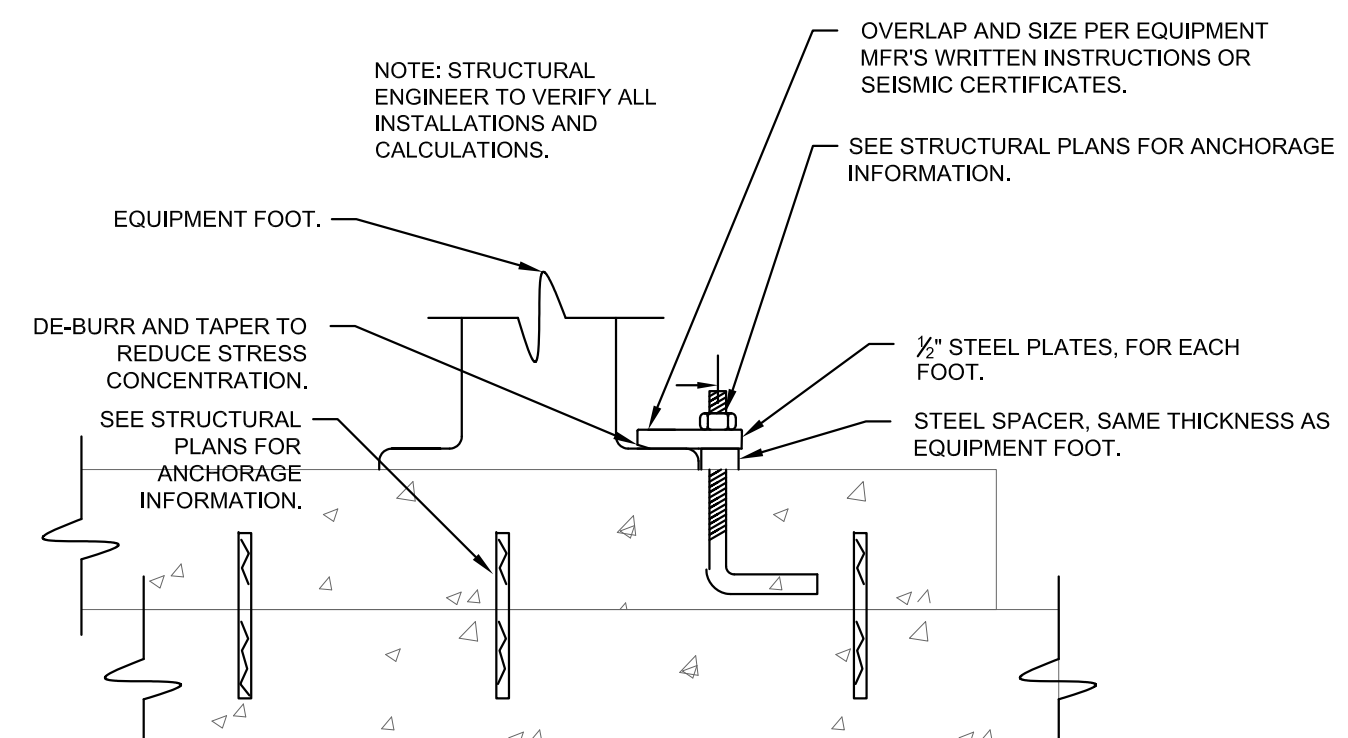


**POOL HEATING BOILER PIPING DIAGRAM**  
NO SCALE

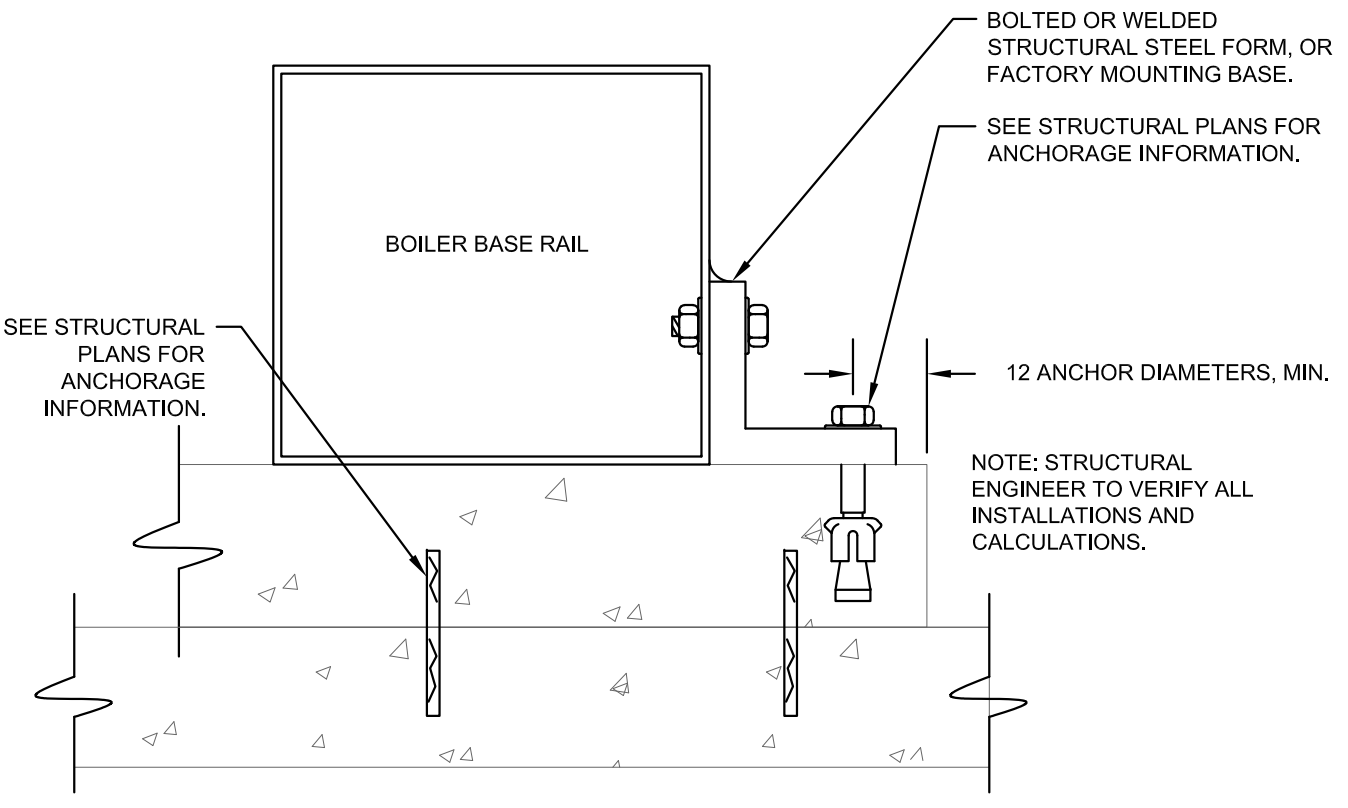
ADJUST (E) VFD PUMP CONTROLLER TO MAINTAIN PUMP AT 400 GPM (FLOW INDICATED ON ORIGINAL 1973 DESIGN DRAWINGS). APPROX DP 40' HEAD WITH CLEAN FILTERS. APPROX DP 65' HEAD JUST PRIOR TO BACKWASH. PUMP SPEED SHALL NOT EXCEED 500 GPM (6 FT/SEC PIPE VELOCITY) WITH CLEAN FILTERS.



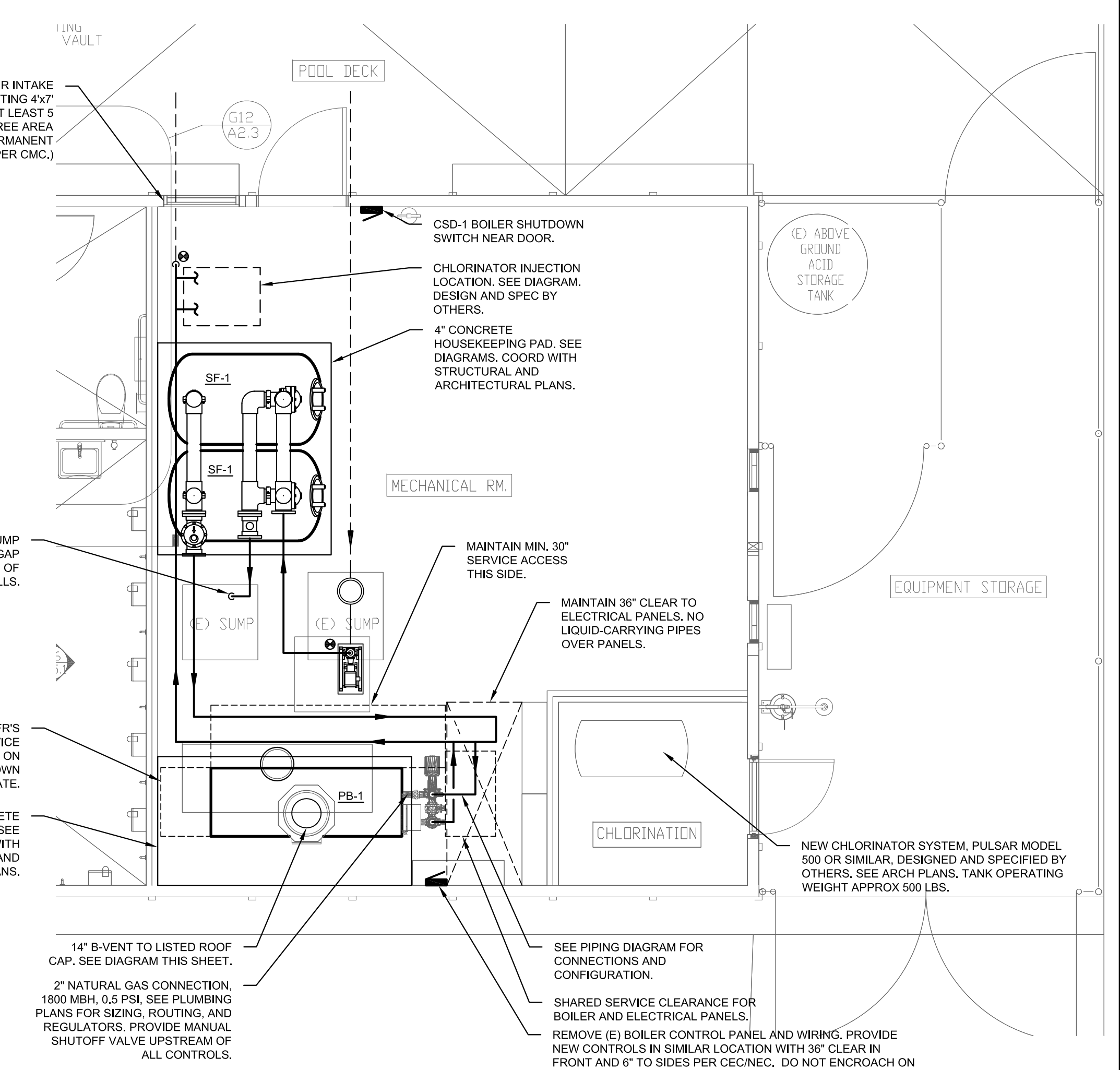
**HORIZONTAL PIPE ANCHOR DIAGRAM**  
NO SCALE (OSHPD-PREAPPROVED METHODS MAY BE USED IN PLACE OF THIS DIAGRAM.)



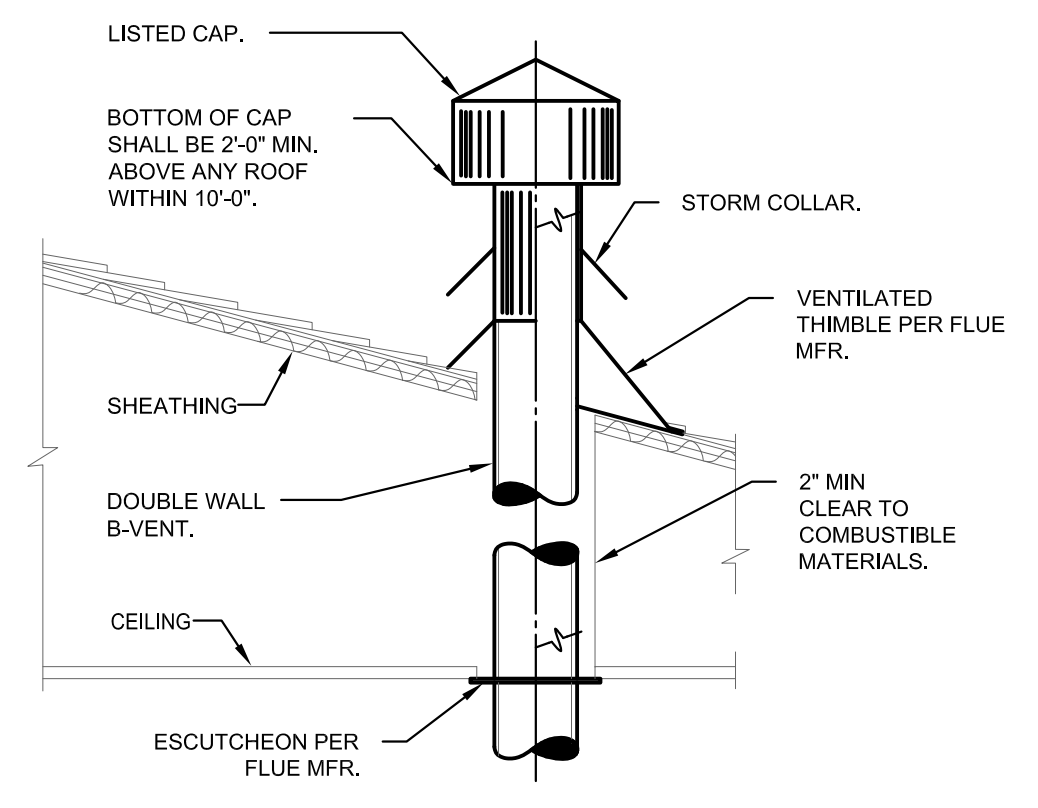
**MOUNTING OF SAND FILTERS, IF PROVIDED WITHOUT MOUNTING HOLES IN FEET**  
NO SCALE



**PAD-MOUNTED BOILER SEISMIC ANCHORING DIAGRAM**  
NO SCALE



**1 MECHANICAL ROOM PLAN**  
SCALE: 1/4" = 1'-0"



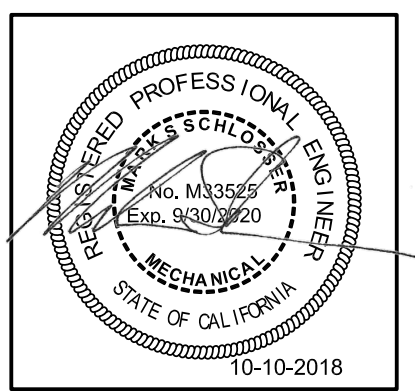
**FLUE THRU ROOF DIAGRAM**  
NO SCALE

- DIAGRAMS NOTES:**
1. ROUTE ALL AUTOMATIC AIR VENTS TO BACKFLUSH PIT.
  2. ROUTE ALL P&T VALVES AND AUTOMATIC DRAINS TO BACKFLUSH PIT.
  3. INSTALL ALL EQUIPMENT ON CONCRETE PADS. SEISMIC ANCHOR PER DIAGRAMS.
  4. MAINTAIN ALL CLEARANCES PER MFR'S INSTALLATION MANUALS. NOTIFY ENGINEER IMMEDIATELY IF LAYOUT MUST CHANGE.
  5. INSTALL ALL PIPING TO MAINTAIN SERVICE ACCESS. PROVIDE UNIONS AND FLANGES WITH SHUTOFFS TO FACILITATE REPAIRS OF ALL ITEMS.
  6. ROUTE PIPING AS HIGH AS PRACTICAL TO MAINTAIN WALKING CLEARANCE.
  7. SUPPORT BOILER PUMP FROM FLOOR WITH BRACED CRADLE.
  8. INSTALL VIBRATION ISOLATION AND FLEXIBLE COUPLERS AT ALL BOILER PUMP.
  9. SEE PLANS FOR PIPING LAYOUT ACROSS PROJECT. CONTRACTOR SHALL MAINTAIN THIS GENERAL LAYOUT WITHIN MECH ROOM AS FAR AS PRACTICAL.

- SHEET NOTES**
1. SEE HVAC AND PLUMBING PLANS FOR MORE INFORMATION.
  2. EXISTING ITEMS ARE SHOWN WITH LIGHT LINE WEIGHT. NEW WORK IS SHOWN WITH THICK LINE WEIGHT.
  3. EXISTING INFORMATION SHOWN ON PLANS WAS TAKEN FROM AS-BUILT DRAWINGS. VERIFY EXACT LOCATION OF EQUIPMENT AND PIPE IN FIELD.
  4. FIELD VERIFY LOCATIONS OF ALL NEW AND REMAINING CONDUITS, STRUCTURE, PIPING, DUCTWORK, ETC. IN PROJECT VICINITY.
  5. NOTIFY ENGINEER IMMEDIATELY IF LAYOUT MUST CHANGE.
  6. SLOPE ALL DRAIN PIPING AT 1/8" PER L.F. MINIMUM. SLOPE 1/4" PER L.F. FOR PIPES SMALLER THAN 4".
  7. ROUTE ALL AUTOMATIC AIR VENTS TO FLOOR SINKS.
  8. TERMINATE PATR VALVES WITH ELBOW DOWNWARD, INTO FLOOR SINK.
  9. INSTALL ALL PIPING TO MAINTAIN SERVICE ACCESS.
  10. PROVIDE UNIONS AND FLANGES WITH SHUTOFFS TO FACILITATE REPAIRS OF ALL ITEMS.
  11. ALL POOL WATER PIPING SHALL BE INSULATED WITH AT LEAST 1" FIBERGLASS ASJ PREFORMED PIPE INSULATION - SEE NOTES.
  12. INSTALL VIBRATION ISOLATION AND FLEXIBLE COUPLERS AT ALL PUMPS LARGER THAN 1HP.

FILE NUMBER: 14-C1  
IDENTIFICATION STAMP  
DIVISION OF THE STATE ARCHITECT  
02-116957  
AC\_BM\_FLS\_MR\_SS\_PVL  
DATE: 10/11/2018

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Revisions	
10-10-2018	Plan Check
10-10-2018	Plan Check

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**POOL BUILDING RENOVATION FOR NEVADA UNION HIGH SCHOOL**  
11761 RIDGE ROAD  
GRASS VALLEY, CA 95949

DATE: 10/10/2018  
SCALE: See Plan  
JOB #: 17-429

MECHANICAL PLANS  
**M3.3**

L

K

J

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B

A

### SYMBOLS LIST

#### POWER DISTRIBUTION

	SWITCHBOARD, DISTRIBUTION BOARD, SUBSTATION OR MOTOR CONTROL CENTER, FLOOR MOUNTED.
	PANELBOARD, 277/480V, SURFACE MOUNTED ON WALL.
	PANELBOARD, 277/480V, FLUSH MOUNTED ON WALL.
	PANELBOARD, 120/208V, SURFACE MOUNTED ON WALL.
	PANELBOARD, 120/208V, FLUSH MOUNTED ON WALL.
	DRY-TYPE STEP-DOWN TRANSFORMER, FLOOR MOUNTED 3Ø,480-120/208V, UON.
	ELECTRIC MOTOR, N.E.C. MAKE POWER CONNECTIONS ONLY AS NOTED ON PLANS.
	INDOOR EXHAUST FAN MOTOR, SINGLE PHASE, MAKE POWER CONNECTIONS TO INCLUDE JUNCTION BOX MOUNTED MANUAL MOTOR STARTER AND DISCONNECT ADJACENT TO FAN WITH 2 #12 CONDUCTORS PLUS GROUND IN 1/2" FLEXIBLE CONDUIT BETWEEN STARTER AND MOTOR.
	INDOOR FAN POWERED VAV BOX MOTOR, SINGLE PHASE, MOUNTED FROM STRUCTURE ABOVE, N.E.C. MAKE POWER CONNECTIONS TO INCLUDE JUNCTION BOX MOUNTED MANUAL MOTOR STARTER AND DISCONNECT ADJACENT TO VAV BOX WITH 2 #12 CONDUCTORS PLUS GROUND IN 1/2" FLEXIBLE CONDUIT BETWEEN STARTER AND MOTOR.
	PULLBOX OR HANDHOLE, SIZE AND TYPE AS NOTED ON PLANS.
	SAFETY SWITCH/ DISCONNECT SWITCH, 3 POLE, UON, ADJACENT NUMBER INDICATES FUSE SIZE WHEN APPLICABLE, LABELING CONVENTION AS FOLLOWS: A: 30A, NON-FUSED AF: 30A, FUSED B: 60A, NON-FUSED BF: 60A, FUSED C: 100A, NON-FUSED CF: 100A, FUSED D: 200A, NON-FUSED DF: 200A, FUSED E: 400A, NON-FUSED EF: 400A, FUSED F: 800A, NON-FUSED FF: 800A, FUSED G: 800A, NON-FUSED GF: 800A, FUSED
	MAGNETIC MOTOR STARTER, ADJACENT NUMBER INDICATES NEMA SIZE OF STARTER.
	COMBINATION MAGNETIC MOTOR STARTER/SAFETY DISCONNECT SWITCH, ADJACENT NUMBER INDICATES NEMA SIZE OF STARTER.
	PACKAGE MOTOR CONTROLLER OR STARTER FURNISHED AND INSTALLED UNDER ANOTHER DIVISION WITH EQUIPMENT CONTROLLED, PROVIDE SINGLE-POINT POWER SERVICE CONNECTION UNDER THIS DIVISION AS NOTED ON PLANS.
	VARIABLE FREQUENCY DRIVE FURNISHED AND INSTALLED UNDER ANOTHER DIVISION, PROVIDE POWER SERVICE CONNECTION UNDER THIS DIVISION AS NOTED ON PLANS.
	VARIABLE FREQUENCY DRIVE WITH INTEGRAL DISCONNECT FURNISHED AND INSTALLED UNDER ANOTHER DIVISION, PROVIDE POWER SERVICE CONNECTION UNDER THIS DIVISION AS NOTED ON PLANS.
	DRIVEN GROUND ROD.
	DRIVEN GROUND ROD IN GROUND WELL WITH COVER.
	ELECTRICAL VEHICLE CHARGING STATION, WALL MOUNTED.
	ELECTRICAL VEHICLE CHARGING STATION, PEDESTAL MOUNTED.
	BRANCH CIRCUIT POWER DISTRIBUTION BOX OF MANUFACTURED WIRING SYSTEM WITH MODULAR CONNECTORS FOR INTERFACE TO BRANCH CIRCUIT MODULAR CABLE SETS AND CABLE OR CONDUIT HOMERUN, BOX MOUNTED FROM STRUCTURE ABOVE IN ACCESSIBLE CEILING SPACE, ADJACENT NUMBERS INDICATE CIRCUITS AVAILABLE AT BOX.
	DEVICE BRANCH CIRCUIT POWER DISTRIBUTION BOX FOR INTERFACE BETWEEN MULTICIRCUIT HOMERUN AND MC CABLE BRANCH CIRCUITINGS, MINIMUM BOX SIZE IS 10"x12"x2" DEEP, BOX MOUNTED FROM STRUCTURE ABOVE IN ACCESSIBLE CEILING SPACE, ADJACENT NUMBERS INDICATE CIRCUITS AVAILABLE AT BOX.
	INDICATES CABLE TERMINATION LUGS AT EQUIPMENT BUS.
	BOLTED PRESSURE OR HIGH PRESSURE CONTACT SWITCH.
	FUSED SWITCH.
	MEDIUM-VOLTAGE LOAD INTERRUPTER SWITCH.
	GROUP MOUNTED MOLDED CASE CIRCUIT BREAKER.
	INDIVIDUALLY FIXED MOUNTED INSULATED-CASE OR POWER CIRCUIT BREAKER.
	INDIVIDUALLY DRAW-OUT MOUNTED INSULATED-CASE OR POWER CIRCUIT BREAKER.
	MEDIUM-VOLTAGE, INDIVIDUALLY DRAW-OUT MOUNTED VACUUM CIRCUIT BREAKER.
	INDICATES INTEGRAL GROUND FAULT RELAY WHEN ASSOCIATED WITH CIRCUIT BREAKER.
	INDICATES COMMUNICATION NETWORK WIRING WHEN ASSOCIATED WITH CIRCUIT BREAKER.
	INDICATES SHUNT TRIP WHEN ASSOCIATED WITH OVERCURRENT PROTECTION DEVICES.
	INDICATES RIRKEYWAY INTERLOCK WHEN ASSOCIATES WITH OVERCURRENT PROTECTION DEVICES, ADJACENT NUMBER CORRESPONDS WITH DEVICE INTERLOCK.
	GROUND FAULT RELAY WITH SHUNT TRIP.
	GROUND FAULT ALARM, NO SHUNT TRIP.
	UTILITY METER.
	TRANSFORMER.
	CONNECTION TO GROUND.
	CURRENT TRANSFORMERS.
	POTENTIAL TRANSFORMERS.
	AUTOMATIC OR MANUAL TRANSFER SWITCH.
	AUTOMATIC TRANSFER-BY-PASS ISOLATION SWITCH.
	EMERGENCY GENERATOR.
	BATTERIES.
	NEUTRAL SERVICE DISCONNECT LINK.
	SURGE PROTECTION DEVICE, 'SPD'.
	CONTROL CONTACTOR.
	NORMALLY OPEN CONTACT.
	NORMALLY CLOSED CONTACT.
	DIGITAL METERING UNIT.
	GROUND BUS.
	WATT HOUR METER.
	NEUTRAL BUS.

#### WIRING DEVICES

	JUNCTION BOX, WALL MOUNTED, +18" UON.
	JUNCTION BOX, MOUNTED IN FLUSH FLOOR BOX.
	JUNCTION BOX, MOUNTED FLUSH IN CEILING.
	JUNCTION BOX, SURFACE OR PENDANT MOUNTED TO STRUCTURE IN ACCESSIBLE CEILING SPACE.
	JUNCTION BOX, MOUNTED ON CONDUIT STANCHION FLOOR PENETRATION, +12" UON.
	SINGLE-FLEX CONVENIENCE RECEPTACLE DEVICE, WALL MOUNTED, +18" UON.
	'USB' DENOTES DUPLEX CONVENIENCE RECEPTACLE DWIBCE WITH INTEGRAL USB POWER OUTLETS, WALL MOUNTED, +18" UON.
	'IG' DENOTES ISOLATED GROUND, DUPLEX CONVENIENCE RECEPTACLE DEVICE, WALL MOUNTED, +18" UON.
	DOUBLE DUPLEX CONVENIENCE RECEPTACLE DEVICE, WALL MOUNTED, +18" UON.
	'DN' DENOTES MOUNTED OVER COUNTER, 6" ABOVE BACK SPLASH UON.
	'G' DENOTES GROUND FAULT CURRENT INTERRUPTER (GFCI), 'A' DENOTES ARC FAULT CURRENT INTERRUPTER (AFCI).
	SHADING DENOTES SPLIT WIRED DEVICE.
	SHADING DENOTES DEVICE CONNECTED TO EMERGENCY POWER CIRCUIT.
	SHADING DENOTES CONTROLLED RECEPTACLE.
	SHADING DENOTES SPECIALLY DEVICE, TYPE AS NOTED ON PLANS.
	DUPLEX CONVENIENCE RECEPTACLE DEVICE, MOUNTED IN FLUSH FLOOR BOX.
	DOUBLE DUPLEX CONVENIENCE RECEPTACLE DEVICE, MOUNTED IN FLUSH FLOOR BOX.
	DUPLEX CONVENIENCE RECEPTACLE DEVICE, MOUNTED IN FIRE-RATED POKE-THRU FLOOR FITTING.
	DOUBLE DUPLEX CONVENIENCE RECEPTACLE DEVICE, MOUNTED IN FIRE-RATED POKE-THRU FLOOR FITTING.
	DUPLEX CONVENIENCE RECEPTACLE DEVICE, MOUNTED FLUSH IN CEILING.
	DOUBLE DUPLEX CONVENIENCE RECEPTACLE DEVICE, MOUNTED FLUSH IN CEILING.
	DUPLEX CONVENIENCE RECEPTACLE DEVICE, MOUNTED ON CONDUIT STANCHION FLOOR PENETRATION, +12" UON.
	DUPLEX CONVENIENCE RECEPTACLE DEVICE, MOUNTED IN FLOOR MONUMENT.
	COMBINATION POWER/TELECOMMUNICATION DEVICE, MOUNTED IN FLUSH FLOOR BOX, TYPE AS NOTED ON PLANS OR IN SPECIFICATIONS.
	DUPLEX CONVENIENCE RECEPTACLE DEVICE, CORD OR REEL HUNG FROM STRUCTURE ABOVE, TYPE AS NOTED ON PLANS.
	ELECTRIFIED FURNITURE PARTITION POWER FEED, WALL MOUNTED, +18" UON, CONSISTS OF 4 1 1/4" SQ. X 2 1/8" DEEP, JUNCTION BOX, SINGLE GANG RING, AND STAINLESS STEEL COVER PLATE WITH KO TO ACCEPT FURNITURE WHIP.
	ELECTRIFIED FURNITURE PARTITION COMBINATION POWER/TELECOMMUNICATION FEEDS, MOUNTED IN FLUSH FLOOR BOX WITH KO'S IN COVER TO ACCEPT FURNITURE WHIPS.
	ELECTRIFIED FURNITURE PARTITION POWER FEED, MOUNTED IN FIRE-RATED POKE-THRU FLOOR FITTING WITH KO IN COVER TO ACCEPT FURNITURE WHIP.
	POWER/TELECOMMUNICATION POLE, MOUNTED TO EXTEND FROM FLOOR TO CEILING, TYPE AS NOTED ON PLANS.
	S SINGLE-POLE, SINGLE-THROW SWITCH, WALL MOUNTED, +42" UON.
	S <sup>3</sup> THREE-WAY SWITCH, WALL MOUNTED, +42" UON.
	S <sup>4</sup> FOUR-WAY SWITCH, WALL MOUNTED, +42" UON.
	S <sup>K</sup> KEY-OPERATED, SINGLE-POLE, SINGLE-THROW SWITCH, WALL MOUNTED, +42" UON.
	P LIGHT, SINGLE-POLE, SINGLE-THROW SWITCH, WALL MOUNTED, +42" UON.
	S <sup>T</sup> MANUAL MOTOR STARTER SWITCH WITH THERMAL OVERLOAD ELEMENT, MOUNTED ADJACENT TO MOTOR.
	S <sup>M</sup> MANUAL MOTOR STARTER/DISCONNECT SWITCH, MOUNTED ADJACENT TO MOTOR.
	SWITCH FURNISHED UNDER ANOTHER DIVISION, BUT INSTALLED AND WIRED UNDER THIS DIVISION, WALL MOUNTED, +42" UON.
	W WALL BOX DIMMER SWITCH, +42" UON, SIZED PER CONNECTED LOAD ON PLANS AND FURNISHED FOR LAMP SOURCE SERVED, PROVIDED FOR DE-RATING WHEN INSTALLED GANGED LOCATIONS.
	S <sup>C</sup> SINGLE-POLE, TIMER CONTROLLED SWITCH, WALL MOUNTED, +42" UON.
	S <sup>EP</sup> SINGLE-POLE, SINGLE-THROW, EXPLOSION PROOF SWITCH, WALL MOUNTED, +42" UON.
	LH LINE-VOLTAGE MULTIPLE GANG SWITCHING STATION, WALL MOUNTED, +42" UON. REFER TO PLANS FOR DEVICE QUANTITIES AND TYPES.
	LH LOW-VOLTAGE LIGHTING CONTROL SWITCHING STATION, WALL MOUNTED, +42" UON. REFER TO PLANS AND SCHEDULES FOR DEVICE QUANTITIES AND RELAYS CONTROLLED.
	LH LIGHTING CONTROL OCCUPANCY SENSOR WITH DUAL LEVEL SWITCHING, WALL MOUNTED, +42" UON.
	LH LIGHTING CONTROL OCCUPANCY SENSOR WITH SINGLE LEVEL SWITCHING, WALL MOUNTED, +42" UON.
	LHV THREE WAY LIGHTING CONTROL OCCUPANCY SENSOR WITH DIMMING CONTROL, WALL MOUNTED, +42" UON.
	LH LIGHTING CONTROL OCCUPANCY SENSOR, CEILING MOUNTED FOR AREA COVERAGE.
	LH PRESET SCENE CONTROL LIGHTING STATION WITH DIMMING CAPABILITIES, WALL MOUNTED, +42" UON. REFER TO PLANS AND SCHEDULES FOR CONTROL.
	LH COMBINATION LIGHTING CONTROL DIMMER/TIMER SENSOR, WALL MOUNTED, +42" UON.
	LH EGRESS LIGHTING TRANSFER DEVICE.
	C CONTROL STATION, WALL MOUNTED, +42" UON.
	PHOTOELECTRIC CELL.
	DAYLIGHT SENSOR.

#### TELECOMMUNICATION

	TELECOMMUNICATION DEVICE, WALL MOUNTED AT +42", TWO CAT 6 UON.
	TELECOMMUNICATION DEVICE, WALL MOUNTED, +18" UON TWO CAT 6 UON.
	TELECOMMUNICATION DEVICE, WALL MOUNTED OVER COUNTER, 6" ABOVE BACK SPLASH, UON, TWO CAT 6 UON.
	TELECOMMUNICATION DEVICE, MOUNTED IN FLUSH FLOOR BOX, TWO CAT 6 UON.
	TELECOMMUNICATION DEVICE, MOUNTED IN FIRE-RATED POKE-THRU FLOOR FITTING, TWO CAT 6 UON.
	TELECOMMUNICATION DEVICE, MOUNTED IN FLOOR MONUMENT, TWO CAT 6 UON.
	TELECOMMUNICATION DEVICE, MOUNTED ABOVE ACCESSIBLE CEILING IN SURFACE MOUNT BOX, TWO CAT 6 UON.
	COMBINATION POWER/TELECOMMUNICATION DEVICES, MOUNTED IN FLUSH FLOOR BOX, TYPE AS NOTED ON PLANS OR IN SPECIFICATIONS, TWO CAT 6 UON.
	COMBINATION POWER/TELECOMMUNICATION DEVICES, MOUNTED IN FIRE-RATED POKE-THRU FLOOR FITTINGS, TYPE AS NOTED ON PLANS OR IN SPECIFICATIONS, TWO CAT 6 UON.
	ELECTRIFIED FURNITURE PARTITION TELECOMMUNICATION CABLE FEED, WALL MOUNTED, +18" UON, CONSISTS OF 4 1 1/4" SQ. X 2 1/8" DEEP, JUNCTION BOX, SINGLE GANG RING, AND STAINLESS STEEL COVER PLATE WITH 1 1/4" KO AND GROMMET, WRAP EXPOSED CABLE WITH SPIRAL WRAP.
	ELECTRIFIED FURNITURE PARTITION COMBINATION POWER/TELECOMMUNICATION FEEDS, MOUNTED IN FLUSH FLOOR BOX WITH KO'S IN COVERS TO ACCEPT FURNITURE WHIPS. TELECOMMUNICATIONS WHIP SHALL BE 1 1/4" MINIMUM.
	ELECTRIFIED FURNITURE PARTITION TELECOMMUNICATION CABLE FEEDS, MOUNTED IN FIRE-RATED POKE-THRU THRU FLOOR FITTING WITH 1 1/4" KO'S IN COVER TO ACCEPT FURNITURE WHIPS.
	WIRELESS ACCESS POINT, WALL MOUNTED, 8" BFC UON, TWO CAT 6A UON.
	WIRELESS ACCESS POINT, CEILING MOUNTED, TWO CAT 6 UON.
	QUANTITY OF DATA AND/OR VOICE TELECOMMUNICATIONS DEVICES.

#### LIGHTING

	LIGHT FIXTURE, RECESSED IN CEILING.
	LIGHT FIXTURE, SURFACE OR PENDANT MOUNTED.
	LIGHT FIXTURE, WALL MOUNTED.
	STRIP LIGHT FIXTURE, SURFACE OR PENDANT MOUNTED.
	STRIP LIGHT FIXTURE, SURFACE MOUNTED IN ARCHITECTURAL CEILING COVE.
	SMOKE DETECTOR INITIATING DEVICE, IN-DUCT MOUNTED TYPE AT, DUCTED FSD'S.
	DOWNLIGHT FIXTURE, RECESSED IN CEILING.
	DOWNLIGHT/INDUSTRIAL FIXTURE, SURFACE OR PENDANT MOUNTED.
	SINGLE DIRECTIONAL, WALLWASH LIGHT FIXTURE, RECESSED IN CEILING.
	DUAL DIRECTIONAL, WALLWASH LIGHT FIXTURE, RECESSED IN CEILING.
	SINGLE DIRECTIONAL, WALLWASH LIGHT FIXTURE, SURFACE OR PENDANT MOUNTED.
	DUAL DIRECTIONAL, WALLWASH LIGHT FIXTURE, SURFACE OR PENDANT MOUNTED.
	ADJUSTABLE ACCENT LIGHT FIXTURE, RECESSED IN CEILING.
	ADJUSTABLE ACCENT LIGHT FIXTURE, SURFACE OR PENDANT MOUNTED.
	LINEAR WALLWASH LIGHT FIXTURE, RECESSED IN CEILING.
	LINEAR WALLWASH LIGHT FIXTURE, SURFACE OR PENDANT MOUNTED.
	LINEAR, MULTI-HEAD, ADJUSTABLE ACCENT LIGHT FIXTURES, RECESSED IN CEILING.
	SCONCE LIGHT FIXTURE, WALL MOUNTED.
	DECORATIVE CHANDELER OR BOWL TYPE FIXTURE, PENDANT MOUNTED.
	EXIT SIGN LIGHT FIXTURE, CEILING OR WALL MOUNTED WITH DIRECTIONAL ARROWS AS NOTED ON PLANS, WORD 'EXIT' TO BE LOCATED IN SHARED FACIES).
	COMBO EXIT SIGN AND EGRESS LIGHTING FIXTURE, CEILING OR WALL MOUNTED WITH ARROWS AS NOTED ON PLANS OR IN FIXTURE SCHEDULE.
	EMERGENCY SELF-POWERED BATTERY PACK WITH LIGHT FIXTURE HEADS AS NOTED ON PLANS OR IN FIXTURE SCHEDULE.
	HALF SHADING OF ANY FIXTURE INDICATES LIFE SAFETY/EGRESS LIGHTING.
	FULL SHADING OF ANY FIXTURE INDICATES STANDBY/CRITICAL LIGHTING.
	EXTERIOR: SINGLE-HEAD AREA LIGHT FIXTURE WITH BRACKET ARM AND POLE, MOUNTED TO CONCRETE BASE.
	TWO-HEAD AREA LIGHT FIXTURES WITH BRACKET ARMS AND POLE, MOUNTED TO CONCRETE BASE.
	SINGLE-HEAD AREA POST-TOP LIGHT FIXTURE WITH POLE, MOUNTED TO CONCRETE BASE.
	AREA LIGHT FIXTURE, SURFACE OR RECESSED MOUNTED TO WALL.
	LIGHT FIXTURE BOLLARD, MOUNTED TO CONCRETE BASE.
	GROUND WELL MOUNTED FLUSH IN FINISHED GRADE.
	FLOODLIGHT FIXTURE, STANCHION MOUNTED ABOVE GRADE.
	LINEAR SIGN LIGHT FIXTURE, STANCHION MOUNTED ABOVE GRADE.
	STEPLIGHT FIXTURE, WALL MOUNTED.

#### SECURITY

	ALARM MONITORING CONTACT, MOUNTED AS NOTED ON PLANS.
	ELECTRIC MORTISE DOOR LOCK, N.E.C, BUT WIRED UNDER THIS DIVISION.
	ELECTRIC DOOR STRIKE, N.E.C, BUT WIRED UNDER THIS DIVISION.
	ELECTROMAGNETIC DOOR LOCK, N.E.C, BUT WIRED UNDER THIS DIVISION.
	ELECTRIFIED PANIC HARDWARE, N.E.C, BUT WIRED UNDER THIS DIVISION.
	MECHANICAL PANIC HARDWARE, N.E.C, BUT WIRED UNDER THIS DIVISION.
	REQUEST-TO-EXIT SWITCH, N.E.C, FURNISH WITH DOOR HARDWARE AND WIRED UNDER THIS DIVISION.
	POWER TRANSFER HINGE, N.E.C.
	DOOR RELEASE MOTION SENSOR, WALL OR CEILING MOUNTED ABOVE DOOR, UON.
	DURESS STATION, MOUNTED AS NOTED ON PLANS.
	AREA MOTION SENSOR, CEILING MOUNTED, UON.
	AREA MOTION SENSOR, WALL MOUNTED, +84" UON.
	CONDUIT TURNED DOWN.
	CONDUIT CAPPED OR STUBBED WITH INSULATING BUSHINGS.
	CONDUIT SLEEVE, WITH INSULATING BUSHINGS.
	CROSSMARKS ON BRANCH CIRCUIT CONDUIT RUNS INDICATE THE QUANTITY OF CONDUCTORS AS FOLLOWS (GROUND CONDUCTORS ARE NOT NOTED, BUT SHOULD BE INCLUDED IN EVERY CONDUIT WITH POWER CONDUCTORS): 1. NO CROSSMARKS INDICATES TWO #12 AWG CONDUCTORS, UON. 2. THREE TO SIX CROSSMARKS INDICATES THE QUANTITY OF #12 AWG CONDUCTORS, UON. 3. SEVEN OR MORE CROSSMARKS INDICATES THE QUANTITY OF #10 AWG CONDUCTORS, UON.
	MULTI-OUTLET TWO PIECE SURFACE RACEWAY, TYPE, DEVICE SPACING AND MOUNTING AS NOTED ON PLANS.
	TWO PIECE SURFACE METAL RACEWAY, MOUNTED AS NOTED IN PLANS.
	CABLE TRAY, CABLE RUNWAY OR LADDER RACK SUSPENDED FROM STRUCTURE ABOVE, REFER TO PLANS FOR SIZE AND MOUNTING.

#### AUDIO/VISUAL

	COMBINATION LOUDESPEAKER/INDICATING CLOCK WITH CLOCK OUTLET, WALL MOUNTED IN COMBINATION BACK BOX, 12" BELOW CEILING OR +96" AFF, WHICHEVER IS LOWER.
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#### FIRE ALARM

	SMOKE DETECTOR INITIATING DEVICE, CEILING MOUNTED ON FLUSH OR SURFACE JUNCTION BOX.
	SMOKE DETECTOR INITIATING DEVICE, STRUCTURE MOUNTED ABOVE SUSPENDED CEILING TO SURFACE JUNCTION BOX.
	SMOKE DETECTOR INITIATING DEVICE, DUCT MOUNTED TYPE WITH SAMPLING TUBE, LOCATED AT SUPPLY AIR FANS 2000ftm AND LARGER.
	SMOKE DETECTOR INITIATING DEVICE, IN-DUCT MOUNTED TYPE AT, DUCTED FSD'S.
	PROTECTED BEAM SMOKE DETECTOR INITIATING DEVICES TO INCLUDE TRANSMITTER RECEIVER AND REMOTE INDICATOR STATION, WALL OR PENDANT MOUNTED IN FLUSH OR SURFACE JUNCTION BOX AS NOTED ON PLANS. B1=BEAM TRANSMITTER, BR=BEAM RECEIVER.
	HEAT DETECTOR INITIATING DEVICE, CEILING MOUNTED ON FLUSH OR SURFACE JUNCTION BOX.
	HEAT DETECTOR INITIATING DEVICE, STRUCTURE MOUNTED ABOVE SUSPENDED CEILING TO SURFACE JUNCTION BOX.
	MANUAL PULL STATION INITIATING DEVICE, WALL MOUNTED AT +48" UON.
	MOTOR OPERATED FIRESMOKE DAMPER 'FSO', N.E.C. SYMBOL DENOTES INTERFACE FOR POWER CONTROL AND POSSIBLY MONITORING CONNECTIONS FROM FIRE ALARM SYSTEM, ALSO, INCLUDES LOCAL POWER DISCONNECT MEANS. 'ES' BY 'FSD' INDICATES END OF SWITCH CONNECTIONS FOR MONITORING BOTH OPEN AND CLOSED POSITIONS. ADJACENT NUMBER INDICATES QUANTITY OF ACTUATORS AND END SWITCH GROUPS REQUIRING CONNECTION PER FSD, IF MORE THAN 1.
	SPRINKLER SYSTEM WATER FLOW SWITCH, N.E.C. SYMBOL DENOTES INTERFACE FOR MONITORING CONNECTION FROM FIRE ALARM SYSTEM.
	SPRINKLER SYSTEM TAMPER SWITCH, N.E.C. SYMBOL DENOTES INTERFACE FOR MONITORING CONNECTION FROM FIRE ALARM SYSTEM.
	SPRINKLER SYSTEM POST INDICATING VALVE 'PIV', N.E.C. SYMBOL DENOTES INTERFACE FOR MONITORING CONNECTION FROM FIRE ALARM SYSTEM, INCLUDE A REMOTE MOUNTED ADDRESSABLE MONITORING MODULE AT EACH LOCATION.
	REMOTE MOUNTED SINGLE INPUT, ADDRESSABLE, MONITORING MODULE FOR INITIATING CIRCUIT CONNECTION.
	REMOTE MOUNTED DUAL INPUT, ADDRESSABLE, MONITORING MODULE FOR INITIATING CIRCUIT CONNECTION.
	REMOTE MOUNTED PROGRAMMABLE CONTROL RELAY MODULE FOR ADDRESSABLE CONTROL.
	DIFFERENTIAL PRESSURE SWITCH, N.E.C. SYMBOLS DENOTES INTERFACE FOR MONITORING CONNECTION FROM FIRE ALARM SYSTEM, INCLUDE A REMOTE MOUNTED ADDRESSABLE MONITORING MODULE AT EACH LOCATION.
	END-OF-LINE RESISTOR.
	AIR PRESSURE SWITCH FOR PRE-ACTION SPRINKLER SYSTEMS, N.E.C. SYMBOL, DENOTES INTERFACE FOR MONITORING CONNECTION FROM FIRE ALARM SYSTEM, INCLUDE A REMOTE MOUNTED ADDRESSABLE MONITORING MODULE AT EACH LOCATION.
	MAGNETIC TYPE DOOR HOLD OPEN/RELEASE DEVICE, WALL MOUNTED, N.E.C. SYMBOL, DENOTES INTERFACE FOR POWER AND CONTROL CONNECTIONS FROM FIRE ALARM SYSTEM.
	AUDIBLE NOTIFICATION APPLIANCE, WALL MOUNTED, 6" BELOW CEILING OR +80" AFF, WHICHEVER IS LOWER.
	VISIBLE NOTIFICATION APPLIANCE, WALL MOUNTED, 6" BELOW CEILING OR +80" AFF, WHICHEVER IS LOWER, NUMBER ASSOCIATED WITH 'OF' REPRESENTS CANDELA RATING OF STROBE.
	AUDIBLE/VISIBLE NOTIFICATION APPLIANCE, WALL MOUNTED, 6" BELOW CEILING OR +80" AFF, WHICHEVER IS LOWER, NUMBER ASSOCIATED WITH 'OF' REPRESENTS CANDELA RATING OF STROBE.
	AUDIBLE/VISIBLE NOTIFICATION APPLIANCE, CEILING MOUNTED IN FLUSH BACK BOX, NUMBER ASSOCIATED WITH 'OF' REPRESENTS CANDELA RATING OF STROBE.
	FIREMAN'S TELEPHONE JACK, WALL MOUNTED, +42" UON.
	FIRE ALARM BELL, FURNISHED BY FIRE SPRINKLER CONTRACTOR, INSTALLED BY ELECTRICAL CONTRACTOR.

#### RACEWAYS

	CONDUIT RUN EXPOSED ON WALL OR CEILING.
	CONDUIT RUN CONCEALED IN SLAB, UNDER SLAB OR UNDERGROUND.
	CONDUIT RUN CONCEALED IN WALL OR ABOVE CEILING.
	CONDUIT HOMERUN, CONTINUOUS RUN TO PANEL OR EQUIPMENT CABINET.
	FLEXIBLE METALLIC CONDUIT.
	CONDUIT TURNED UP.
	CONDUIT TURNED DOWN.
	CONDUIT CAPPED OR STUBBED WITH INSULATING BUSHINGS.
	CONDUIT SLEEVE, WITH INSULATING BUSHINGS.
	CROSSMARKS ON BRANCH CIRCUIT CONDUIT RUNS INDICATE THE QUANTITY OF CONDUCTORS AS FOLLOWS (GROUND CONDUCTORS ARE NOT NOTED, BUT SHOULD BE INCLUDED IN EVERY CONDUIT WITH POWER CONDUCTORS): 1. NO CROSSMARKS INDICATES TWO #12 AWG CONDUCTORS, UON. 2. THREE TO SIX CROSSMARKS INDICATES THE QUANTITY OF #12 AWG CONDUCTORS, UON. 3. SEVEN OR MORE CROSSMARKS INDICATES THE QUANTITY OF #10 AWG CONDUCTORS, UON.
	MULTI-OUTLET TWO PIECE SURFACE RACEWAY, TYPE, DEVICE SPACING AND MOUNTING AS NOTED ON PLANS.
	TWO PIECE SURFACE METAL RACEWAY, MOUNTED AS NOTED IN PLANS.
	CABLE TRAY, CABLE RUNWAY OR LADDER RACK SUSPENDED FROM STRUCTURE ABOVE, REFER TO PLANS FOR SIZE AND MOUNTING.

#### ABBREVIATIONS

A	AMPERES	LSCP	LIFE SAFETY CONTROL PANEL
ABC	ABOVE FINISHED CEILING	LCP	LIGHTING CONTROL PANEL
AFI	ARC FAULT CIRCUIT INTERRUPTER	MGB	MAIN BUILDING GROUND BUS
AF	AMPERE OVERCURRENT FRAME SIZE (WHEN APPLIED TO CIRCUIT BREAKERS)	MCC	MOTOR CONTROL CENTER
MFC	MOTOR FUSE SIZE (WHEN APPLIED TO FUSES)	MLO	MAIN LUGS ONLY
MT	EMPTY	MT	EMPTY TRIP
MTB	MAIN TELECOM GROUND BUS	MTC	EMPTY CONDUIT
MS	MANUAL TRANSFER SWITCH	MTGB	MAIN TELECOM GROUND BUS
MW	MICROWAVE	MWS	MANUAL TRANSFER SWITCH
N	NEW	N	NORMALLY OPEN
NF	NON-FUSED	N	NORMALLY CLOSED
NI	NOT IN ELECTRICAL CONTRACT	N	NOT TO SCALE
NO	NORMALLY OPEN	OC	ON CENTER
NTS	NOT TO SCALE	OC	OWNER FURNISHED CONTRACTOR
ON	ON CENTER	ODU	POWER DISTRIBUTION UNIT
OFI	OWNER FURNISHED CONTRACTOR	PIV	POST INDICATING VALVE
PDU	POWER DISTRIBUTION UNIT	PNI	PANEL
PNL	PANEL	PT	POTENTIAL TRANSFORMER
PT	POTENTIAL TRANSFORMER	PVC	POLYVINYL CHLORIDE
PVC	POLYVINYL CHLORIDE	RF	REFRIGERATOR
RF	REFRIGERATOR	RI	EXISTING TO BE REMOVED
RI	EXISTING TO BE REMOVED	RL	RELOCATED
RL	RELOCATED	RRR	REMOVE AND RELOCATE
RRR	REMOVE AND RELOCATE	RSC	REINFORCED STEEL CONDUIT
RSC	REINFORCED STEEL CONDUIT		

FIRE ALARM SYSTEM OPERATING MATRIX

Table with columns: RESULT OF OPERATION, PULL STATION, HEAT DETECTOR, DUCT DETECTOR, AREA SMOKE DETECTOR, SYSTEM RESET, SIGNAL SILENCE, OPEN CIRCUIT, POWER LOSS, SPRINK. VALVE TAMPER, WATER FLOW ALARM. Rows include FACP ALARM, ANNUNCIATE ALARM, OFF SITE REPORTING ALARM, FACP TROUBLE, ANNUNCIATE TROUBLE, OFF SITE REPORTING TROUBLE, AUDIBLE ALARM, VISUAL ALARM, NOTIFY SUPERVISING STATION.

FIRE ALARM SYSTEM COMPONENT SCHEDULE

Table with columns: SYMBOL, EQUIPMENT/DEVICE, MANUFACTURER, MODEL / PART #, CSFM LISTING YEAR, CSFM LISTING NO. Includes items like FIRE ALARM VOICE AMPLIFIER, FIRE ALARM BOOSTER PANEL, ADDRESSABLE SINGLE MONITOR MODULE, etc.

NOTE: QUANTITIES OF DEVICES SHOWN ON THIS SCHEDULE ARE ESTIMATED DEVICES INSTALLED. THE CONTRACTOR IS RESPONSIBLE FOR REPLACEMENT OF ALL COMPONENTS SHOWN ON FLOOR PLANS. THESE QUANTITIES, DO NOT INCLUDE SPARE DEVICES. REFER TO SPECIFICATIONS FOR SPARE DEVICE QUANTITIES.

FIRE ALARM NOTES

- 1. WORK SHALL BE PERFORMED IN ACCORDANCE WITH THE APPLICABLE REGULATIONS INCLUDING BUT NOT LIMITED TO THE FOLLOWING: STATE CALIFORNIA CODE OF REGULATIONS (CCR) 2016 TITLE 24 CALIFORNIA BUILDING CODE...
2. INSTALLATION OF THE SYSTEMS SHALL NOT BE STARTED UNTIL DETAILED DESIGN DOCUMENTATION AND SPECIFICATIONS...
3. UPON COMPLETION OF INSTALLATION OF THE SYSTEMS, A SATISFACTORY TEST OF THE ENTIRE SYSTEM SHALL BE MADE IN THE PRESENCE OF A DSA PROJECT INSPECTOR.

NUMBERED SHEET NOTES

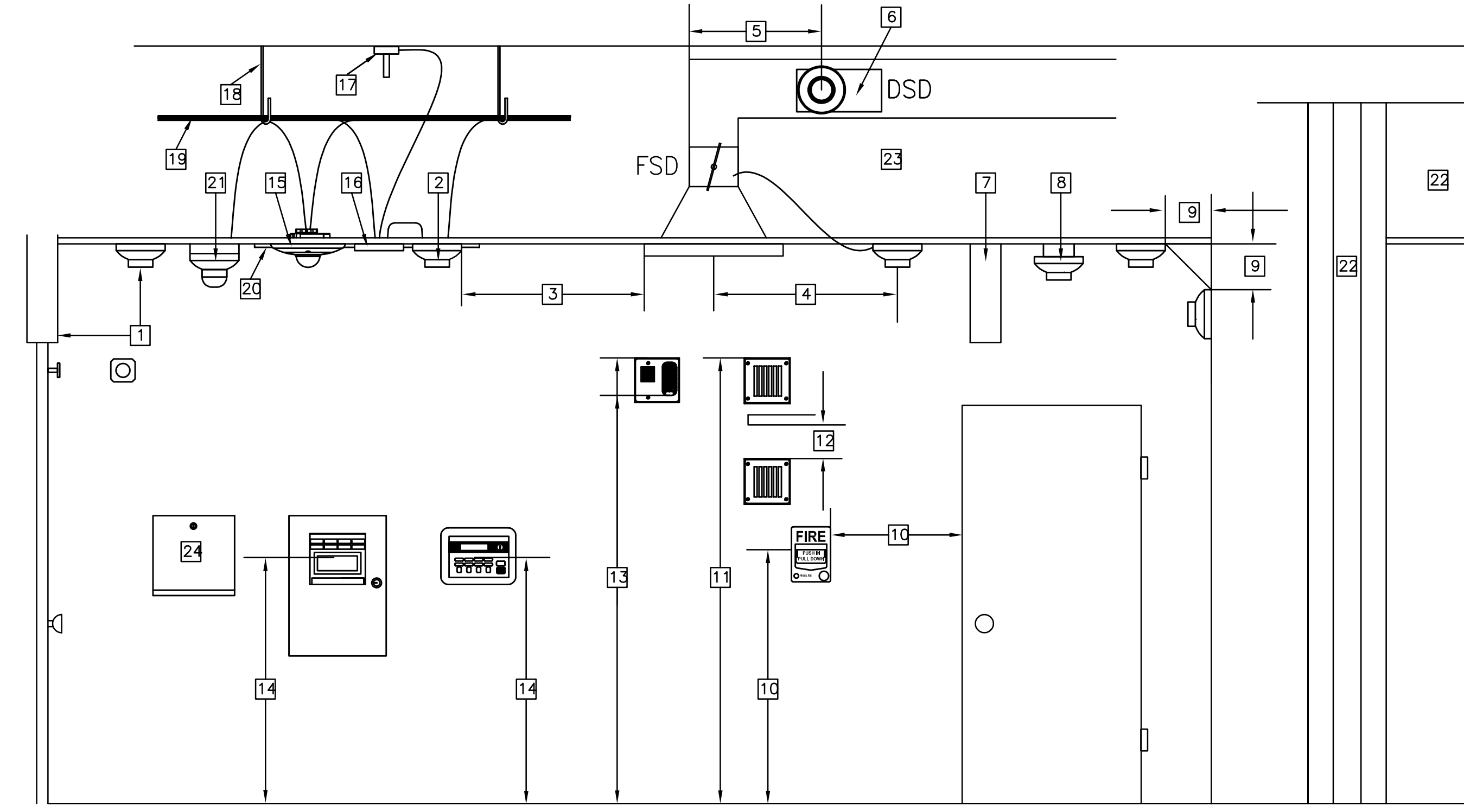
- 1. MOUNT DOOR HOLDER SMOKE DETECTOR MAXIMUM 3' FROM DOOR AND A MINIMUM OF 1'.
2. MAXIMUM DISTANCE BETWEEN SMOKE DETECTORS IS 30' AND 15' FROM WALLS, MAXIMUM DISTANCE FROM A CORNER IS 21' WITH CEILING LESS 10' OR LESS.
3. MOUNT SMOKE DETECTOR MINIMUM OF 3' AWAY FROM DIFFUSER VENT.

FIRE ALARM SYSTEM CABLE SCHEDULE

Table with columns: CABLE TAG, CABLE, NO. OF CONDUCTORS, COLOR, AWG, CABLE USE. Includes entries for GENESIS, AQUA SEAL, THHN, and FIBER cables.

FIRE ALARM SYSTEM DESCRIPTION

SCOPE OF THIS PROJECT IS TO INCORPORATE A NEW FIRE ALARM SYSTEM WITH VOICE EVACUATION, VOICE AMPLIFIERS, POWER SUPPLIES, INITIATION, NOTIFICATION AND CONTROL DEVICES AS SHOWN ON PLANS AND SPECIFICATIONS. IN AREAS WHERE SCOPE OF NEW WORK IS LIMITED TO INSTALLATION OF FIRE ALARM DEVICES, INFRASTRUCTURE, INCLUDING PATHWAY, DEVICE BOXES, ETC. PROVIDE ALL NEW CABLING; CABLING SHALL BE INSTALLED IN CONDUIT OR SURFACE RACEWAY, OR EXPOSED IN ACCESSIBLE CEILING SPACE.



TYPICAL FIRE ALARM DEVICE INSTALLATION REQUIREMENTS

FA-0.2 NTS



Revisions

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POOL BUILDING RENOVATION for NJUHSJ NEVADA UNION HIGH SCHOOL, GRASS VALLEY, CA

date 9/27/2018 scale N.T.S. job # 17-429

FIRE ALARM SCHEDULES & NOTES

E0.2



STATE OF CALIFORNIA INDOOR LIGHTING CERTIFICATE OF COMPLIANCE NRCC-LTI-01-E (Revised 04/16) CALIFORNIA ENERGY COMMISSION Project Name: POOL BUILDING RENOVATION FOR NUHUSD Date Prepared: July 19, 2018

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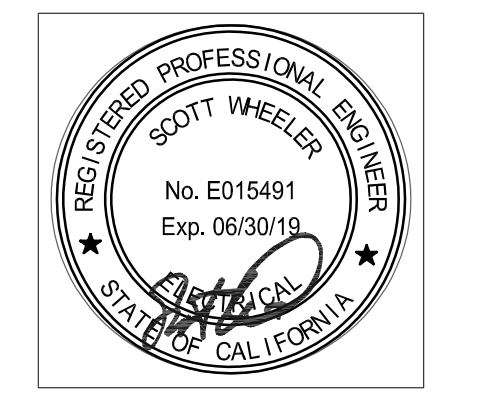
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POOL BUILDING RENOVATION for NUHUSD NEVADA UNION HIGH SCHOOL, GRASS VALLEY, CA

FILE NUMBER: 14-C3 IDENTIFICATION STAMP DIVISION OF THE STATE ARCHITECT 02-116957 AC, BM, FLS, MR, SS, PVL DATE: 10/11/2018

DATE: 9/27/2018 N.T.S. 17-429

TITLE 24 E0.4

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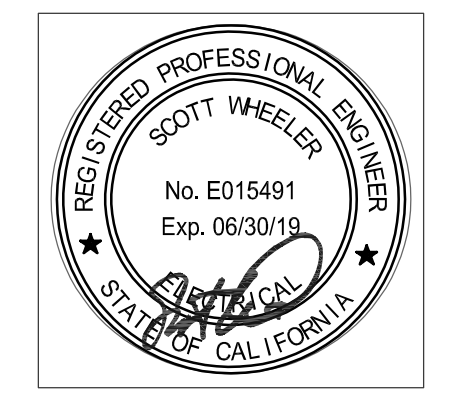
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POOL BUILDING RENOVATION
for
N.J.U.H.S.D

NEVADA UNION HIGH SCHOOL, GRASS VALLEY, CA

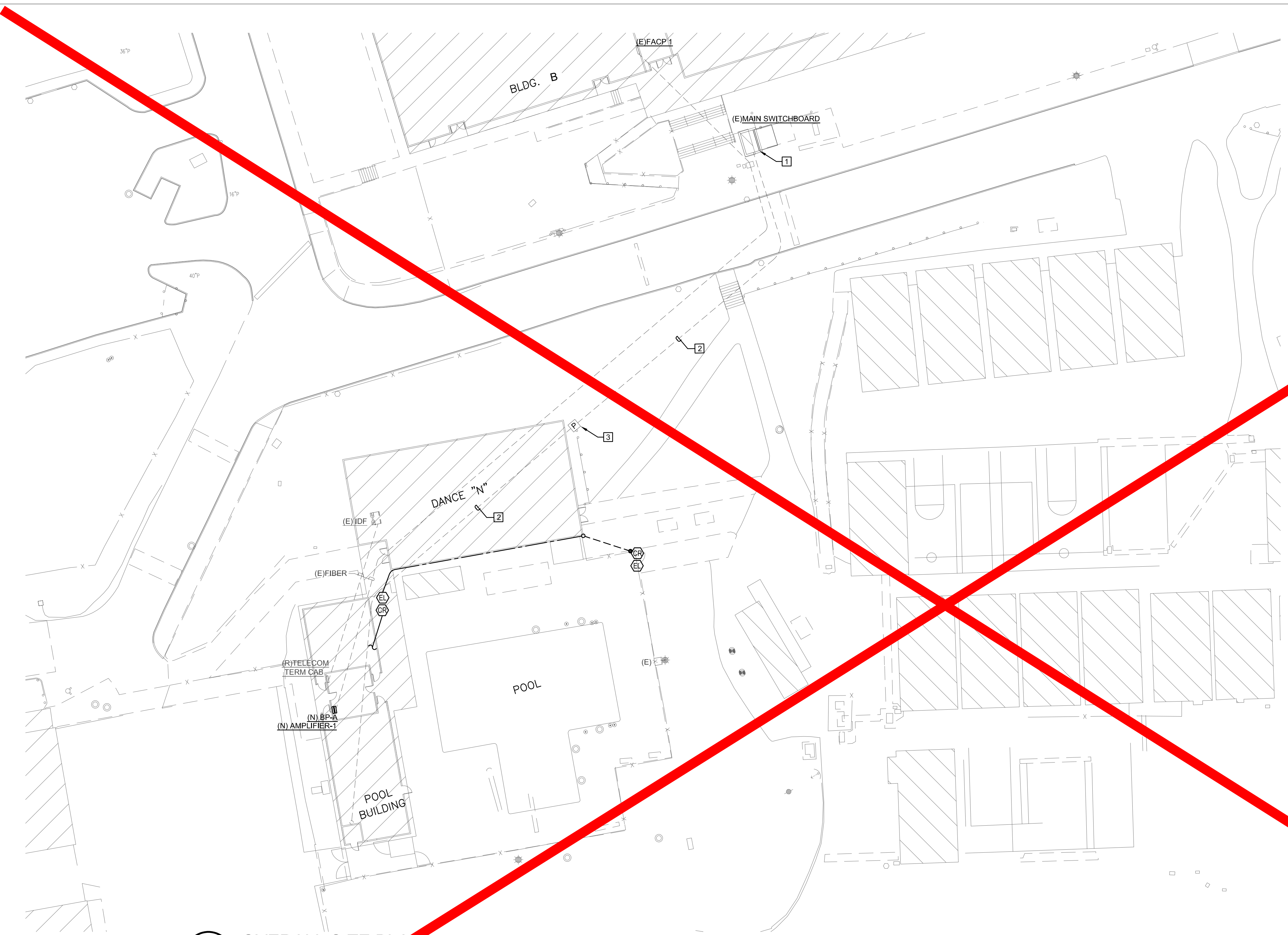
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DIVISION OF THE STATE ARCHITECT
02: 116957
AC, BM, FLS, MR, SS, PVL
DATE: 10/11/2018

9/27/2018
N.T.S.
17-429

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**A** OVERALL SITE PLAN  
**E1.0**

1/2" = 1'-0"

**NUMBERED SHEET NOTES**

1. EXISTING 225A/3P BREAKER TO BE REUSED.
2. EXISTING 4 #350 KCML IN 3.5" C TO BE REUSED.
3. EXISTING PULL BOX TO BE REUSED.



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**POOL BUILDING RENOVATION**

for  
**NJUHS**  
NEVADA UNION HIGH SCHOOL, GRASS VALLEY, CA

date: 9/27/2018  
scale: 1/2" = 1'-0"  
job #: 17-429

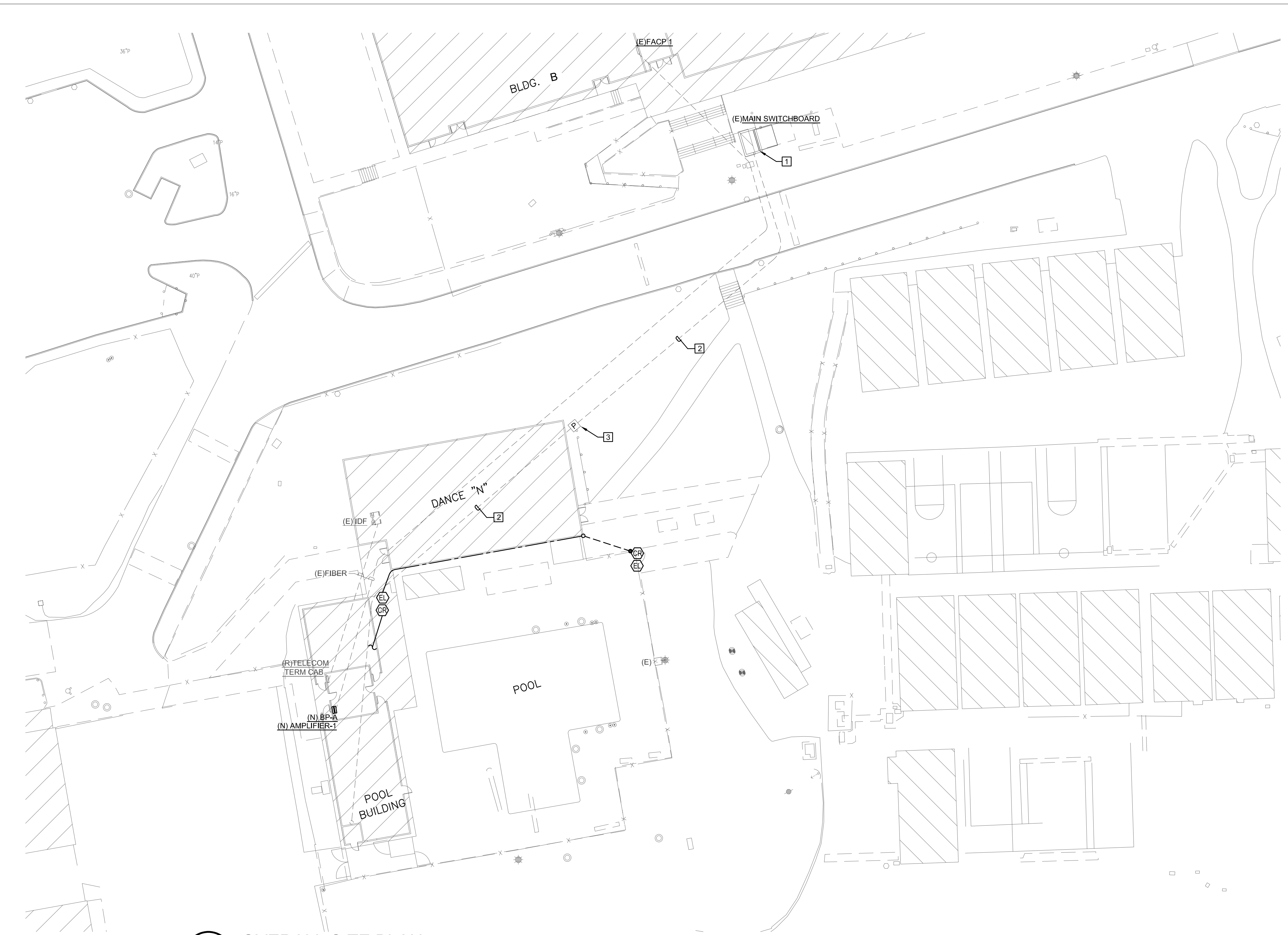
OVERALL SITE PLAN  
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**A**  
**E1.0** OVERALL SITE PLAN

1/2" = 1'-0"

15 14 13 12 11 10 9 8 7 6 5 4 3 2 1

**NUMBERED SHEET NOTES**

1. EXISTING 225A/3P BREAKER TO BE REUSED.
2. EXISTING 4 #350 KCMLL IN 3.5" C TO BE REUSED.
3. EXISTING PULL BOX TO BE REUSED.

**MEP Component Anchorage Note**  
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 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 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.

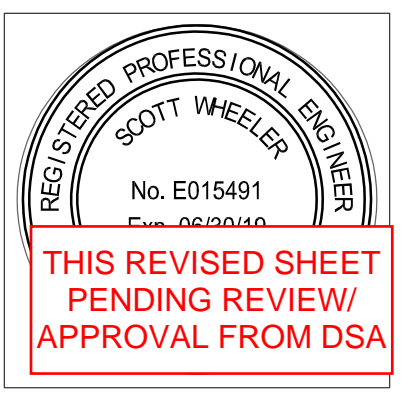
For those elements that do not require details on the approved drawings, the installation shall be subject to the approval of the design professional in general responsible charge or structural engineer delegated responsibility and the DSA District Structural Engineer. The project inspector will verify that all components and equipment have been anchored in accordance with above requirements.

**Piping, Ductwork, and Electrical Distribution System Bracing Note**  
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 2016 CBC, Sections 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 - Option 1: Detailed on the approved drawings with project specific notes and details.
- MP MD PP E - Option 2: Shall comply with the applicable OSHPD Pre-Approval (OPM #) #
- MP MD PP E - 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.



**THIS REVISED SHEET PENDING REVIEW/ APPROVAL FROM DSA**

Revisions	
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**POOL BUILDING RENOVATION**

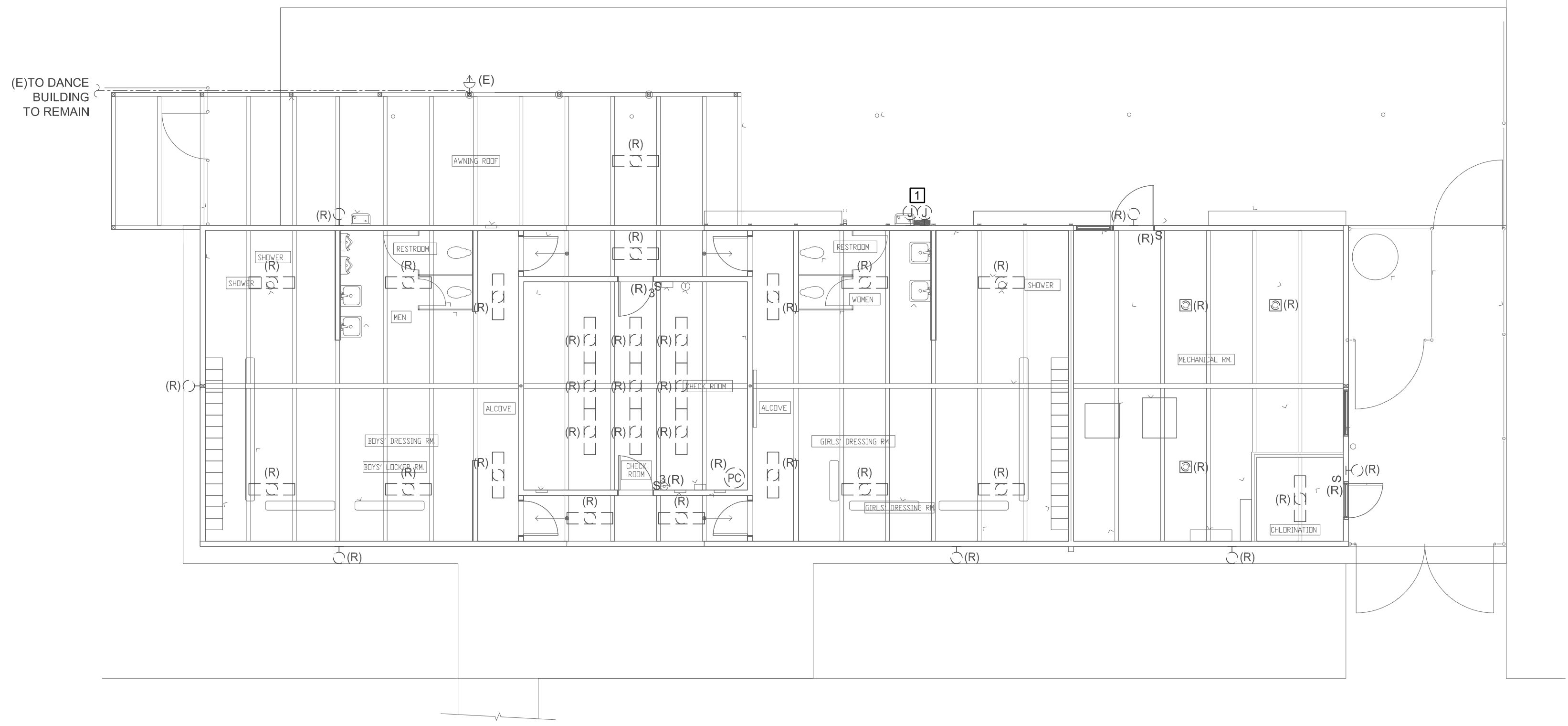
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**NJUHSD**  
NEVADA UNION HIGH SCHOOL, GRASS VALLEY, CA

date: 9/27/2018  
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job #: 17-429

OVERALL SITE PLAN  
**E1.0**

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**A**  
**E2.1** LIGHTING PLAN - DEMO

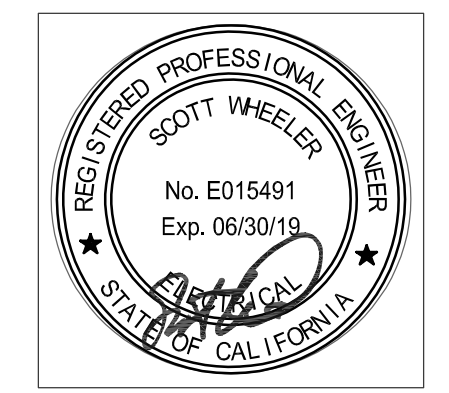
1/8" = 1'-0"

**GENERAL SHEET NOTES**

- A. ALL LIGHTING FIXTURES AND LIGHTING CONTROLS TO BE REMOVED. REMOVE CONDUIT AND WIRE BACK TO SOURCE.
- B. WHEN A DEVICE IS REMOVED FROM EXISTING WALL WHICH WILL REMAIN, PATCH WALL TO MATCH EXISTING OR NEW FINISH.

**NUMBERED SHEET NOTES**

- 1. REMOVE AND REPLACE JUNCTION BOXES FOR POOL LIGHTING. NEW BOXES SHALL BE STAINLESS STEEL.



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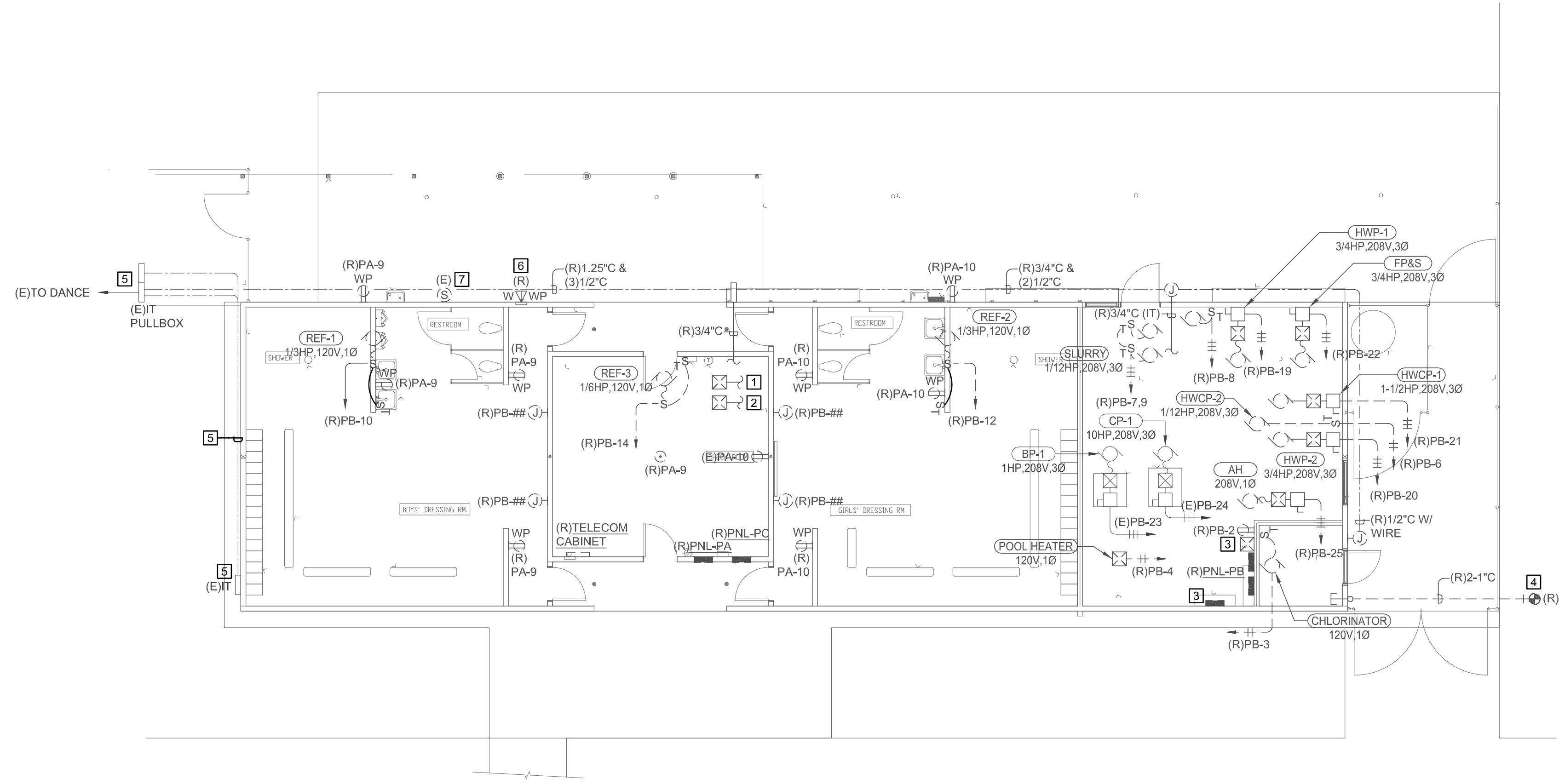
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LIGHTING PLAN - DEMO

**E2.1**



**A** POWER PLAN - DEMO  
E2.2

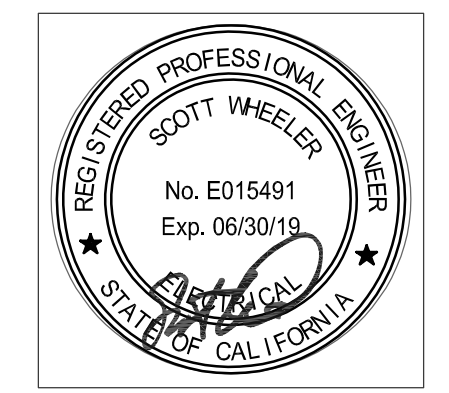
1/8" = 1'-0"

**GENERAL SHEET NOTES**

- A. REMOVE ALL EXISTING DEVICES AND CONDUIT BACK TO SOURCE.
- B. WHEN A DEVICE IS REMOVED FROM EXISTING WALL WHICH WILL REMAIN, PATCH WALL TO MATCH EXISTING OR NEW FINISH.

**NUMBERED SHEET NOTES**

1. EXISTING BYPASS TIMER TO BE REMOVED.
2. EXISTING RADIANT HEAT CONTROL "ON/OFF" SWITCH TO BE REMOVED.
3. CHEMICAL CONTROL PANELS TO BE REMOVED.
4. REMOVE 50A SPECIALTY RECEPTACLE AND ALL ASSOCIATED CONDUIT (INCLUDING CONDUIT RISER).
5. ALL EXISTING 2"C AND PULL BOXES ALONG WEST WALL OF POOL HOUSE TO REMAIN.
6. REMOVE EXISTING PHONE, INCLUDING SURFACE BOX, HANDSET, J-BOX, ETC.
7. REPLACE EXISTING SPEAKER SERVED BY SURFACE MOUNTED CONDUIT (MOUNTED TO THE BUILDING EXTERIOR WALL). REMOVE THIS CONDUIT AND WIRE AND ROUTE CONCEALED INSIDE BUILDING.



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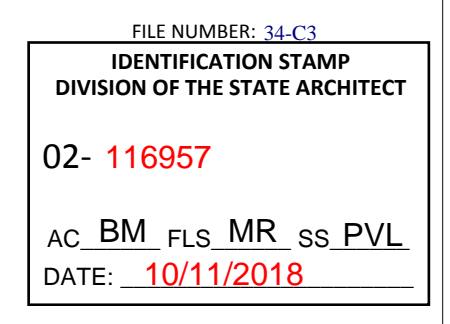
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POOL BUILDING RENOVATION  
for  
NJUHSD  
NEVADA UNION HIGH SCHOOL, GRASS VALLEY, CA

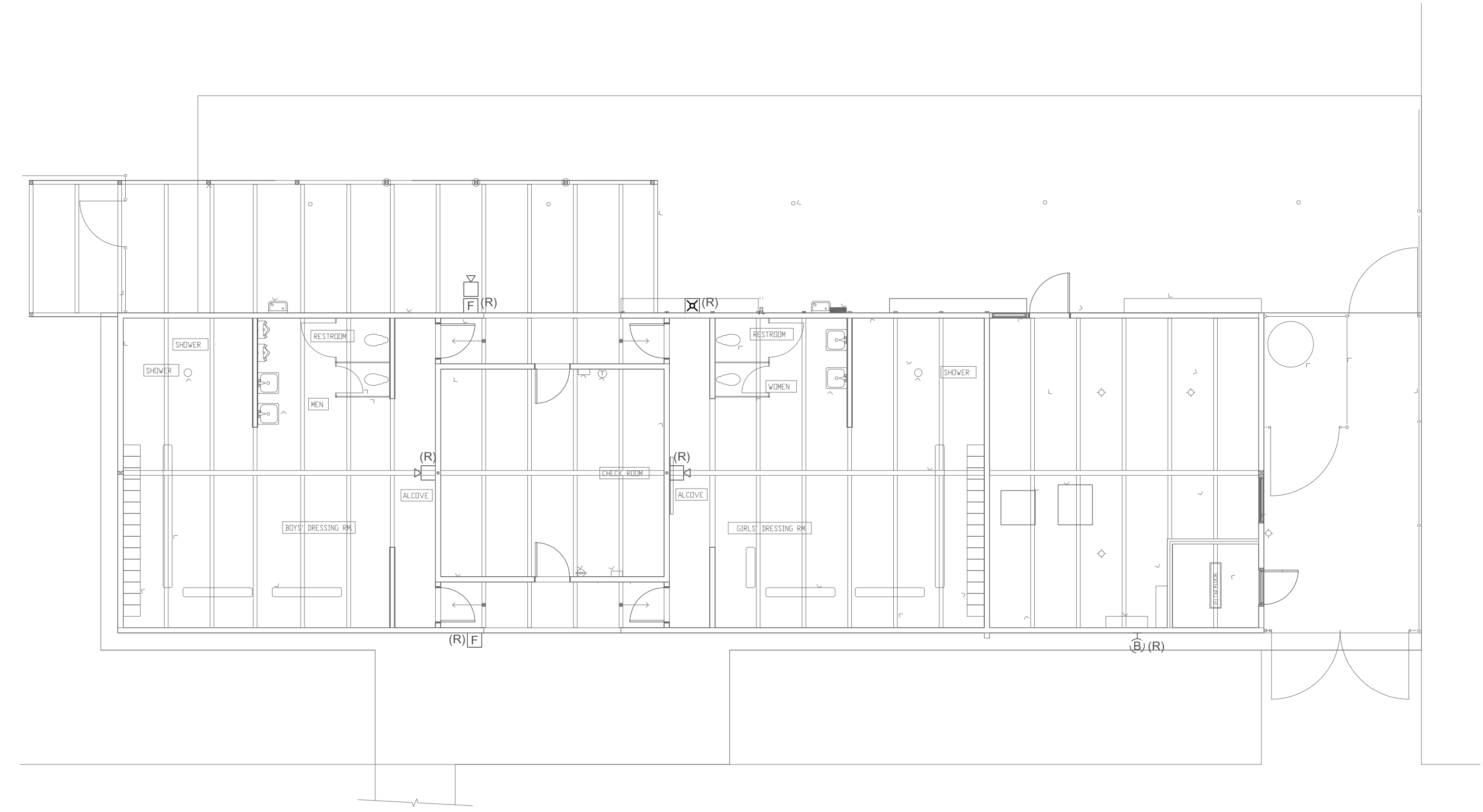
date: 9/27/2018  
scale: 1/8" = 1'-0"  
job #: 17-429

POWER PLAN - DEMO  
**E2.2**



15 14 13 12 11 10 9 8 7 6 5 4 3 2 1

L  
K  
J  
I  
H  
G  
F  
E  
D  
C  
B  
A



**GENERAL SHEET NOTES**

A. REMOVE ALL EXISTING DEVICES AND CONDUIT BACK TO SOURCE.

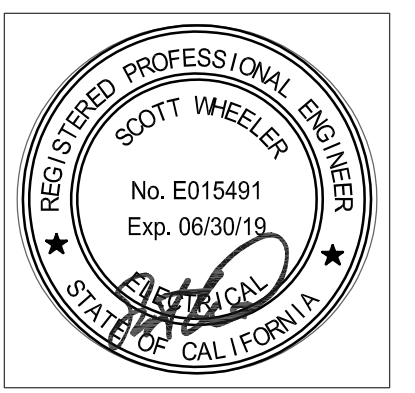
B. WHEN A DEVICE IS REMOVED FROM AN EXISTING WALL WHICH WILL REMAIN, PATCH WALL TO MATCH EXISTING OR NEW FINISH.

C. WHERE EXISTING FIRE ALARM DEVICES ARE TO BE REMOVED, THE CONTRACTOR SHALL ALSO REMOVE ALL CONDUCTORS SERVICING THE DEVICE.

**A** FIRE ALARM PLAN - DEMO  
E2.3

1/8" = 1'-0"

FILE NUMBER: 34-C3  
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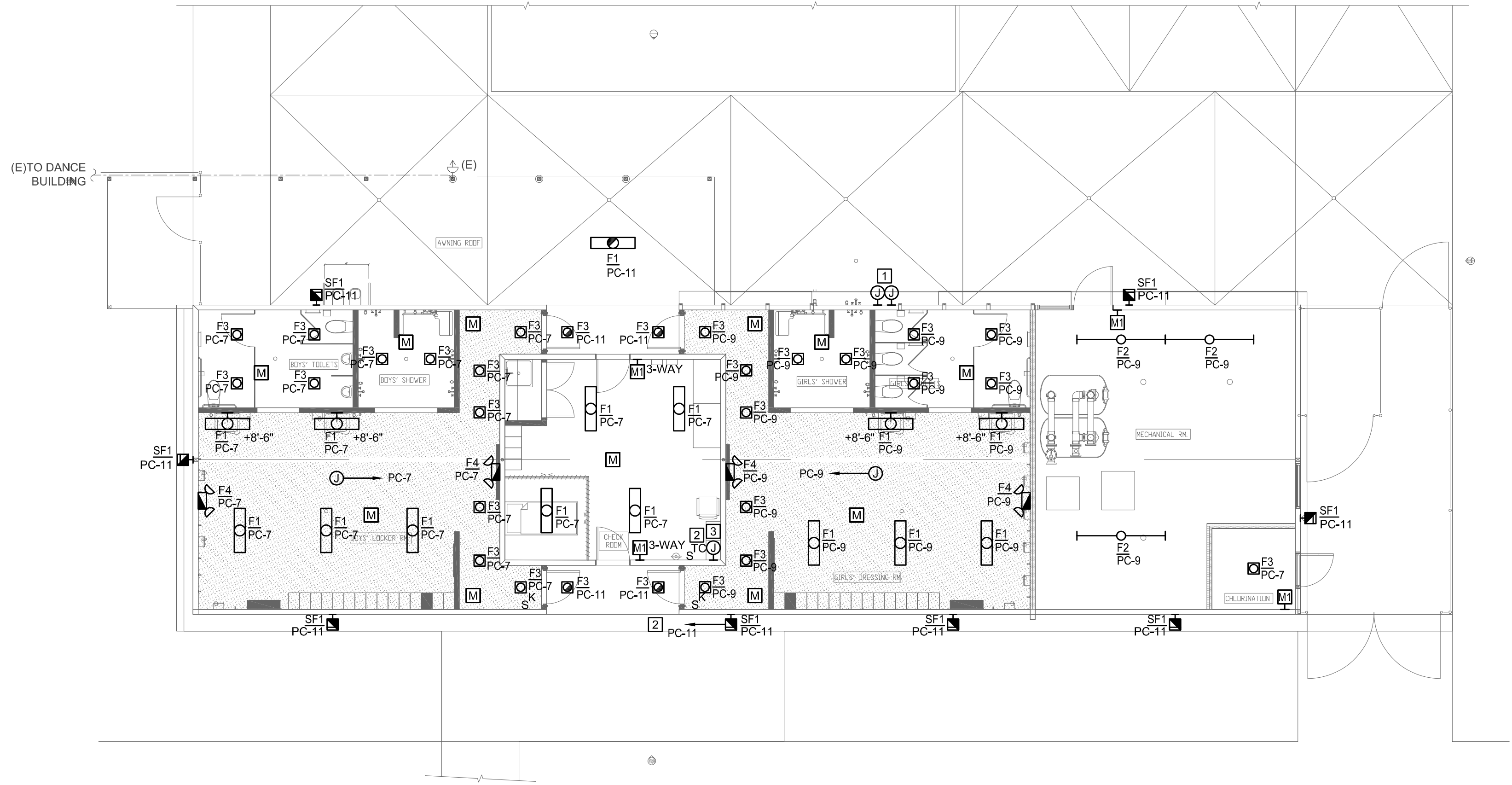
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date: 9/27/2018  
scale: 1/8" = 1'-0"  
job #: 17-429

FIRE ALARM PLAN - DEMO  
**E2.3**

15 14 13 12 11 10 9 8 7 6 5 4 3 2 1



**GENERAL SHEET NOTES**

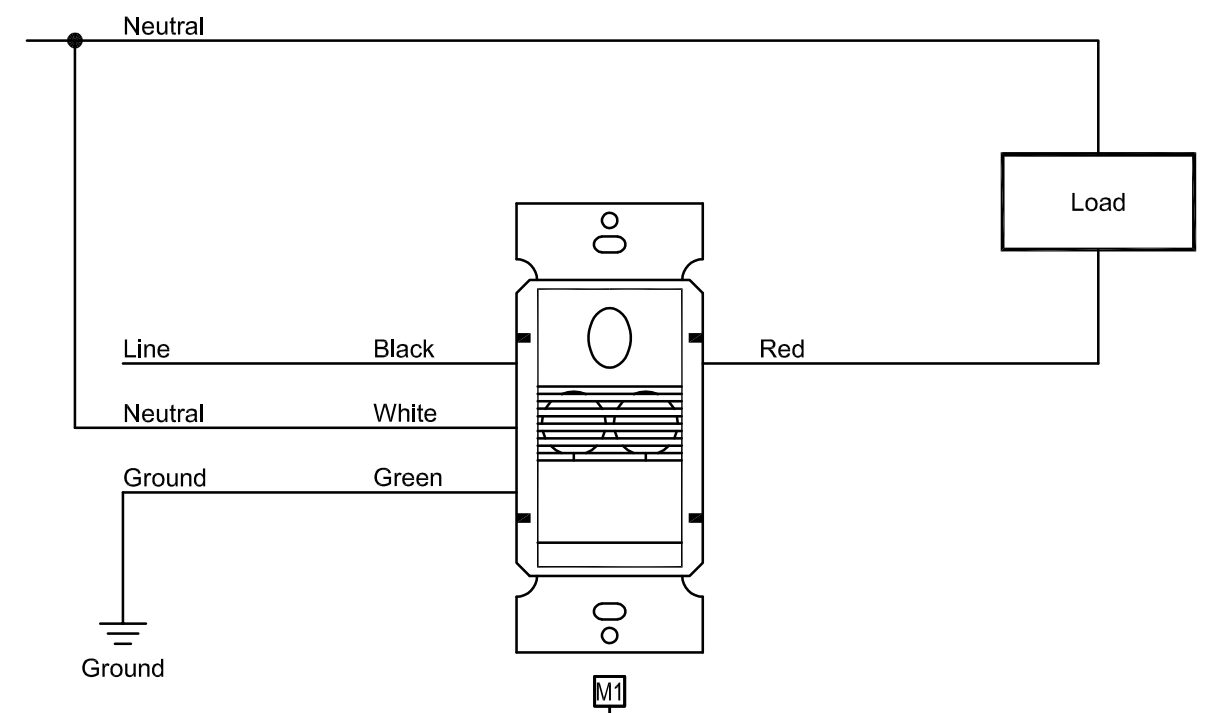
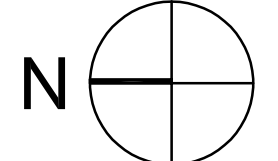
- A. REFER TO E0.3 FOR LIGHTING FIXTURE SCHEDULE.
- B. REFER TO DETAIL B, C, & D ON THIS SHEET FOR LIGHTING CONTROL WIRING DIAGRAMS.

**NUMBERED SHEET NOTES**

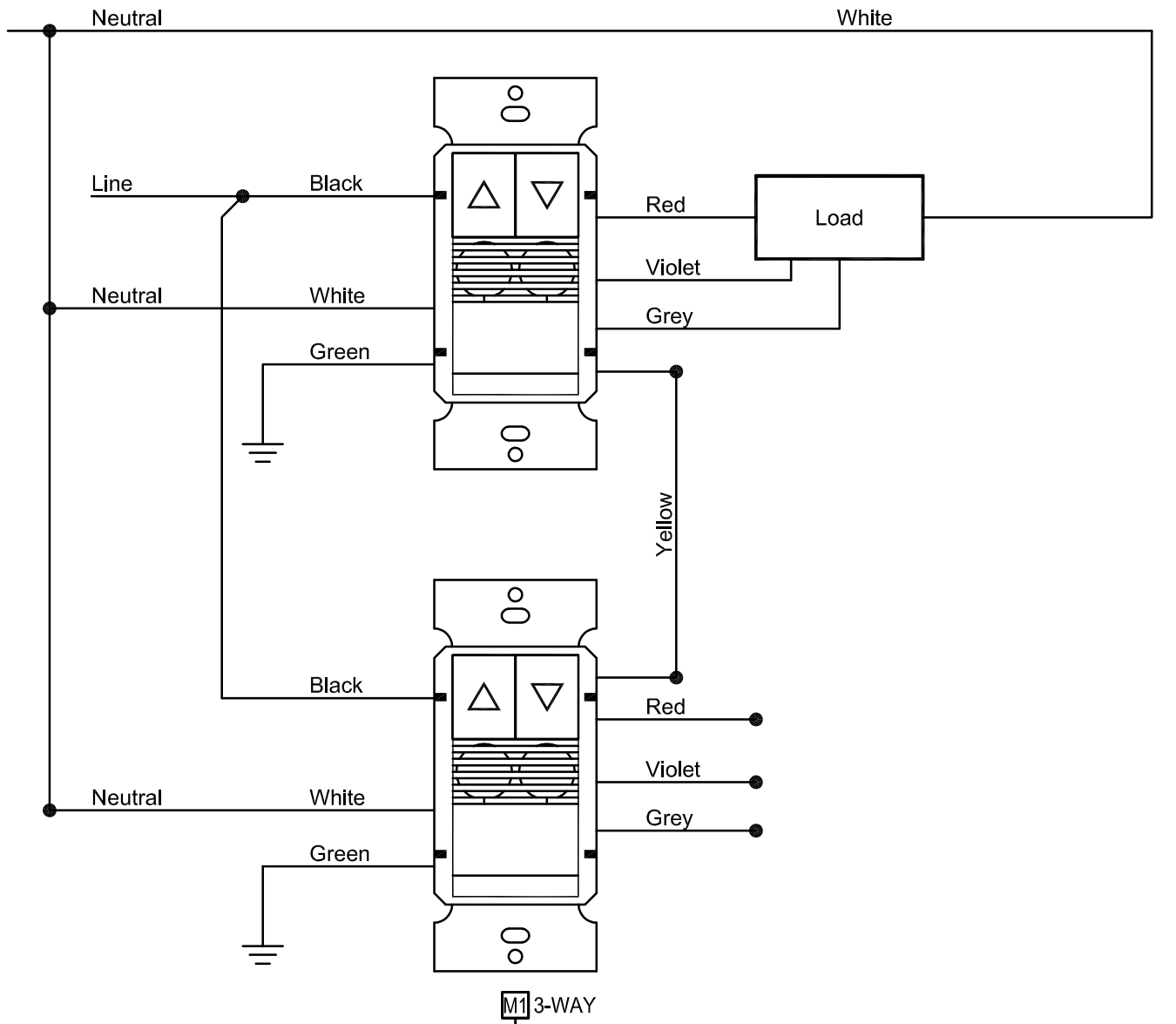
1. NEW STAINLESS STEEL JUNCTION BOXES FOR POOL LIGHTING. PROTECT WIRING DURING DEMO, RECONNECT CIRCUITS TO NEW PANEL PC.
2. ROUTE HOMERUN VIA INVERTER AND TIMER SWITCH. REFER TO DETAIL D/E3.1.
3. MOUNT INVERTER ON WALL (NEAR CEILING) ABOVE PANEL PC.

**A** LIGHTING PLAN  
E3.1

1/8" = 1'-0"



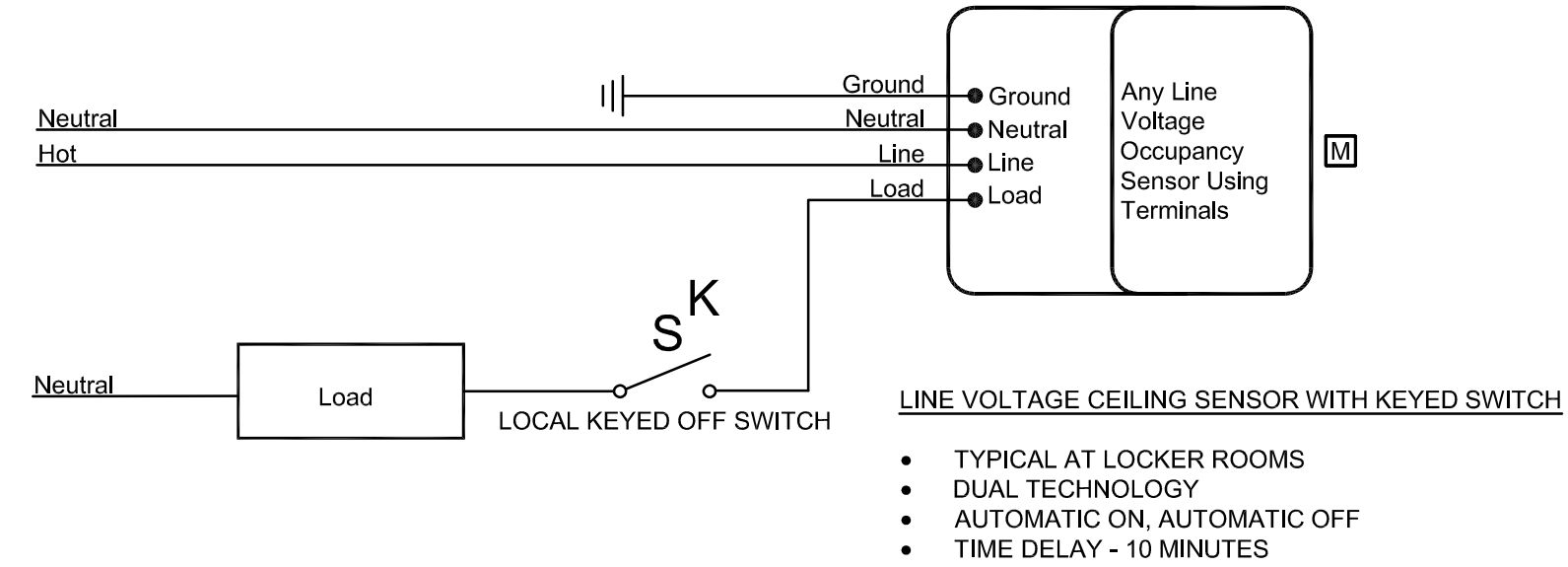
**SINGLE RELAY WALL MOUNTED DUAL-TECHNOLOGY OCCUPANCY SENSOR**  
Line voltage switching only shown: Typical where line voltage switch shown in small room; Mechanical Room & chlorination room.  
Set time delay to 15 min., sensitivity to max.  
Automatic on, automatic off



**DUAL RELAY WALL MOUNTED, MULTI-WAY DUAL-TECHNOLOGY OCCUPANCY SENSOR**  
Provide 0-10V dimming shown: Typical where shown line-voltage, 3-way switches; Check Room.  
Set time delay to 15 min., sensitivity to max.  
Automatic on, automatic off

**B** WALLBOX OCCUPANCY SENSOR WIRING DIAGRAMS  
E3.1

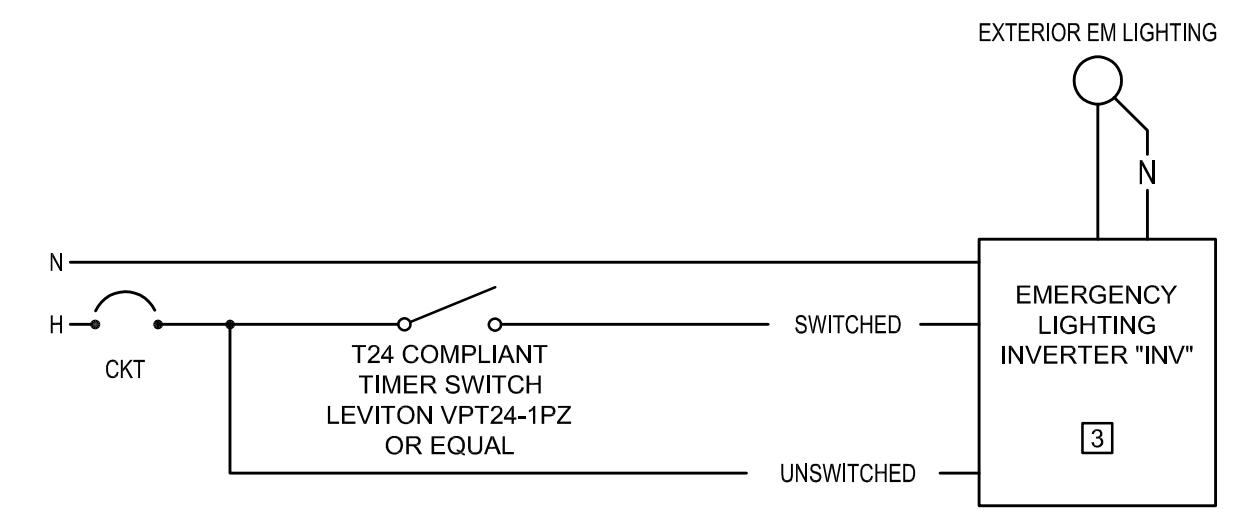
SCALE: NTS



**LINE VOLTAGE CEILING SENSOR WITH KEYED SWITCH**

- TYPICAL AT LOCKER ROOMS
- DUAL TECHNOLOGY
- AUTOMATIC ON, AUTOMATIC OFF
- TIME DELAY - 10 MINUTES

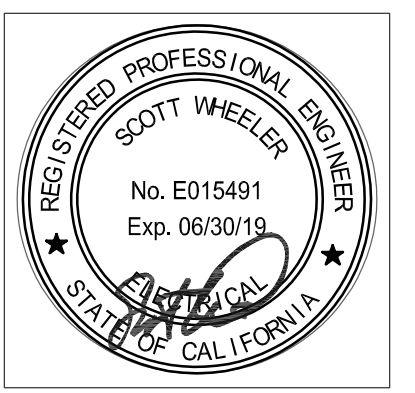
**C** LINE VOLTAGE CEILING SENSOR  
E3.1



- NOTES:
1. GENERAL: THE INVERTER SHALL PROVIDE BATTERY BACK-UP OF EXTERIOR BUILDING MOUNTED LIGHTING FOR EMERGENCY LIGHTING AT EXTERIOR EGRESS LANDINGS.
  2. THE EXTERIOR LIGHTS SHALL BE POWERED AND CONTROLLED (ON/OFF) BY THE SPECIFIED TITLE 24 COMPLIANT TIMER SWITCH. UNDER NORMAL CONDITIONS, THE LIGHTS TURN ON AND OFF VIA A TIME BASED SCHEDULE FROM THE LIGHTING CONTROL SYSTEM. PROGRAM PER INPUT FROM THE OWNER'S REPRESENTATIVE.
  3. PROVIDE AN UNSWITCHED CIRCUIT TO THE INVERTER FOR VOLTAGE SENSING AS SHOWN. UPON LOSS OF POWER OF THIS CIRCUIT, THE INVERTER WILL TURN THE LIGHTS ON FOR EMERGENCY EGRESS.
  4. CIRCUIT ROUTED THROUGH THE INVERTERS SHALL BE ROUTED IN A CONDUIT SEPARATE FROM NON-EMERGENCY LIGHTING CIRCUITS.
  5. PROVIDE 400W PURE SINE WAVE INVERTER, BODINE ELI-S-400 OR EQUAL.

**D** EXTERIOR LIGHTING WIRING DIAGRAM  
E3.1

SCALE: NTS



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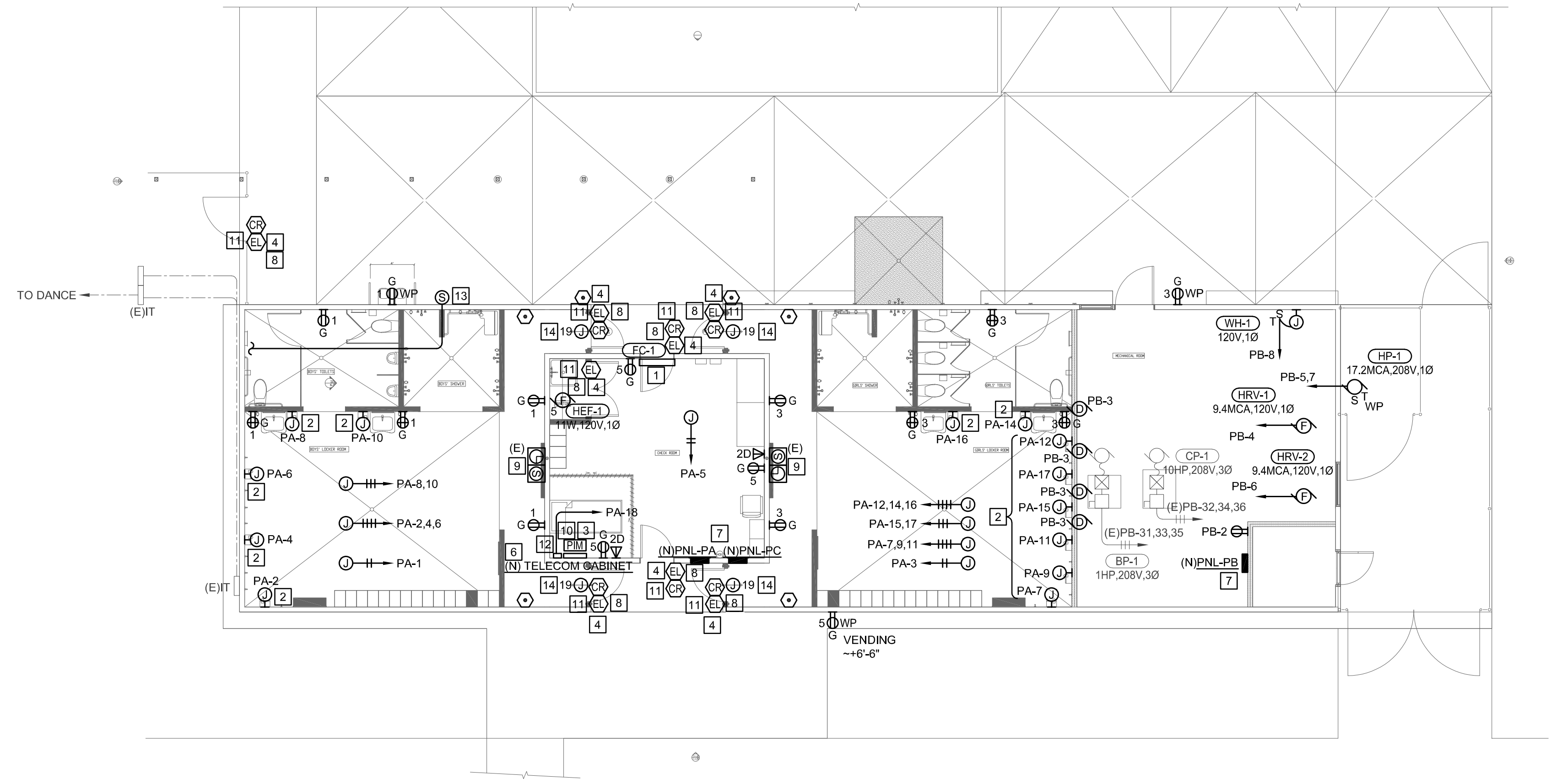
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POOL BUILDING RENOVATION  
for  
NJUHSD  
NEVADA UNION HIGH SCHOOL, GRASS VALLEY, CA

DATE: 9/27/2018  
SCALE: 1/8" = 1'-0"  
JOB #: 17-429

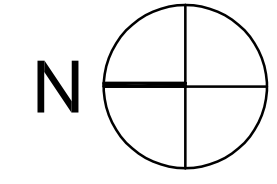
LIGHTING PLAN  
E3.1

FILE NUMBER: 34-C3  
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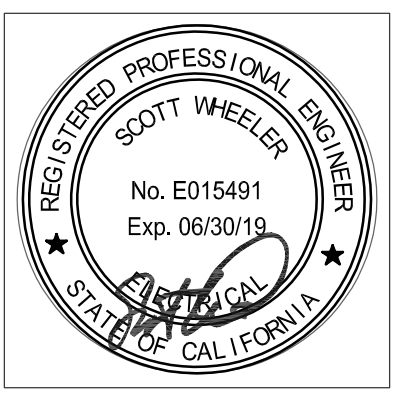


**A**  
E4.1 POWER PLAN

1/8" = 1'-0"



- | #   | NUMBERED SHEET NOTES   |
|-----|--|
| 1.  | POWER FOR FC-1 SHALL BE PROVIDED FROM HP-1 BY MECHANICAL CONTRACTOR.   |
| 2.  | PROVIDE 120V POWER TO HAND DRYERS.   |
| 3.  | WIRELESS CONNECTION TO ELECTRONIC DOOR LOCKS.  |
| 4.  | 3/4" SURFACE MOUNTED CONDUIT. FOLLOW EXISTING OVERHEAD CONDUIT PATH TO CHECKROOM.  |
| 5.  | SEE SITE PLAN E1.0 FOR EXACT LOCATION OF LOCK AND GATE.  |
| 6.  | PROVIDE NEW WALL MOUNTED TELECOM CABINET.  |
| 7.  | INSTALLED NEW RECESSED PANELS TO REPLACE DEMOLISHED PANELS. RECONNECT EXISTING CIRCUITS THAT ARE TO REMAIN. PATCH AND REPAIR WALL AS REQUIRED.                                       |
| 8.  | ALLEGION: SCHLAGE AD-400 NETWORKED WIRELESS ELECTRONIC LOCK.   |
| 9.  | EXISTING SPEAKER/CLOCK. REPLACE WITH SAPIING CLOCK: SAM SERIES 1BS-12R-4. SPEAKER: LOWELL 810-T72. HOUSING: LOWELL PC712 STEEL BOX AND SCB-700 GRILL AND CONNECT TO EXISTING WIRING. |
| 10. | ALLEGION: SCHLAGE PANEL INTERFACE MODULE, PIM400-1501.   |
| 11. | PROVIDE 24V POWER SUPPLY, SIZE TO POWER ALL SHOWN LOCKS VIA FLEX POWER PANEL FP075-B100C4PE1M. REFER TO B/E6.0 FOR ONE LINE DIAGRAM.   |
| 12. | FLEX POWER PANEL FP075-B100C4PE1M  |
| 13. | NEW EXTERIOR SPEAKER. LOWELL 810-T72. 8" SPEAKER. REFER TO B/E7.1 FOR SPEAKER MOUNTING DETAIL. PROVIDE NEW CONDUIT AND WIRE ROUTED CONCEALED INSIDE THE BUILDING.                    |
| 14. | PROVIDE POWER TO AUTO DOOR. INSTALL STRIKE PLATES AND PROVIDE CONNECTION (CONDUIT AND WIRE) FROM STRIKE PLATE TO DOOR OPERATOR PER MANUFACTURER'S REQUIREMENTS.                      |



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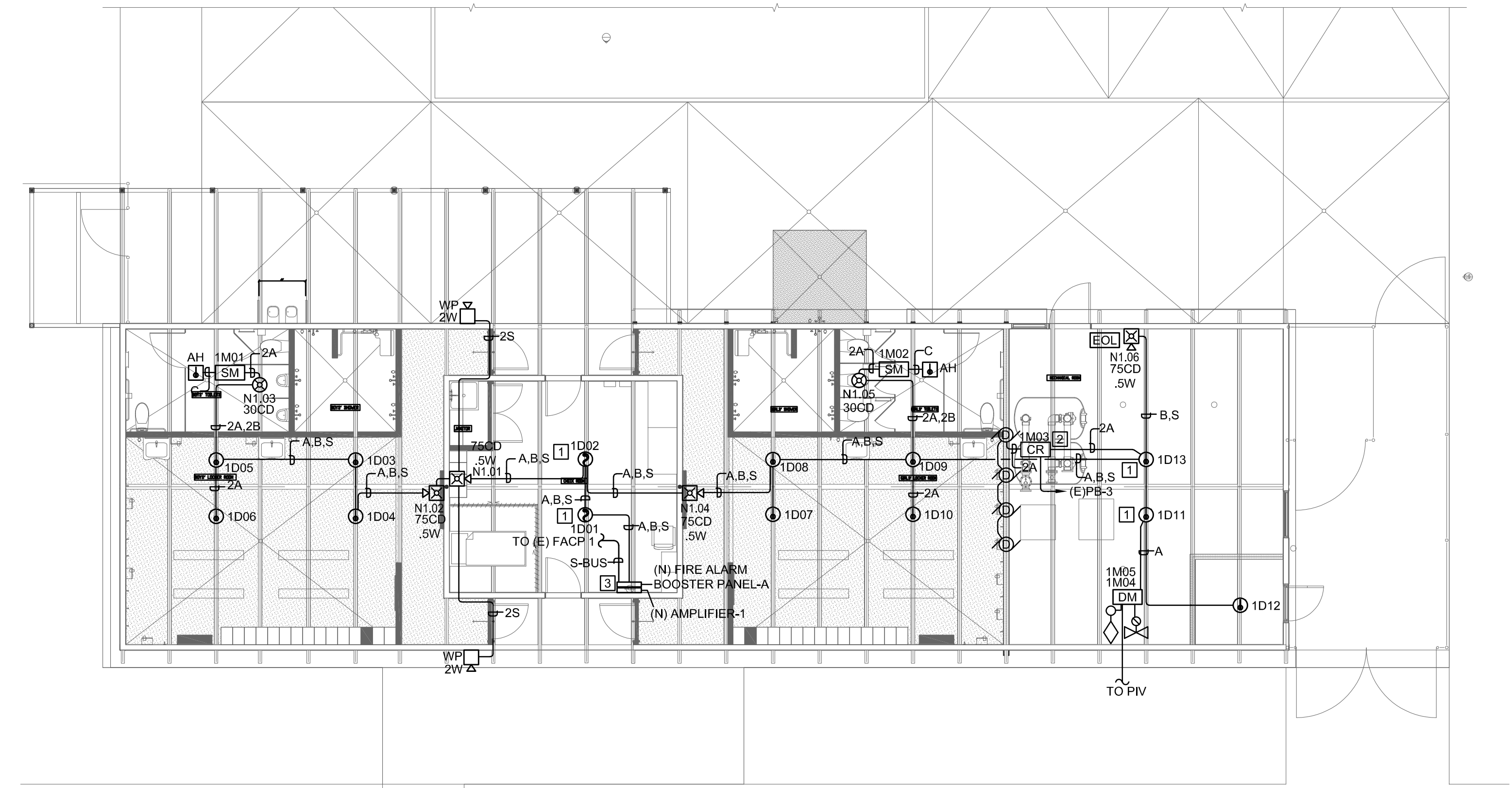
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POOL BUILDING RENOVATION  
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POWER PLAN  
**E4.1**



**A** FIRE ALARM PLAN  
E5.1

1/8" = 1'-0"

**GENERAL SHEET NOTES**

- A. FIRE ALARM SYSTEM INSTALLATION SHALL COMPLY WITH ALL REQUIREMENTS OF APPLICABLE CODES, STANDARDS AND STATE REGULATIONS.
- B. FIRE ALARM CIRCUITS CIRCUIT ROUTING ARE SHOWN SCHEMATICALLY FOR CLARITY ILLUSTRATING THE WIRING CONFIGURATION NECESSARY FOR PROPER CIRCUIT SUPERVISION.
- C. COORDINATE CEILING MOUNTED FIRE ALARM DEVICE LOCATIONS TO AVOID CONFLICT.
- D. DO NOT INSTALL FIRE ALARM DEVICES BACK TO BACK IN STUD WALLS.
- E. INSTALL FIRE ALARM CONDUCTORS IN CONDUIT OR METAL SURFACE RACEWAY WHEN IN EXPOSED SPACES. MINIMUM SIZE OF CONDUIT SHALL BE 0.75". UTILIZE WIREMOLD 7005 SERIES SURFACE RACEWAY (IN LIEU OF CONDUIT) FOR AREA WHERE CONDUIT CANNOT BE INSTALLED CONCEALED. CABLE ABOVE ACCESSIBLE CEILING CAN BE INSTALLED FREE AIR WHEN USING APPLICABLE CABLE. SUPPORT ALL FREE AIR CABLE EVERY 48" WITH J-HOOKS.
- F. ALL SPEAKER/STROBES SHALL HAVE MINIMUM 0.75" CONDUIT PATHWAYS. USE OF EXISTING 0.5" CONDUIT PATHWAY IS NOT ACCEPTABLE.
- G. ENSURE THAT SPEAKERS/STROBES ARE MOUNTED IN 5" SQ. X 2 7/8" DEEP BOX, FOR SURFACE MOUNTED DEVICES. FLUSH MOUNTED DEVICES SHALL BE MOUNTED IN THE MANUFACTURERS DESIGNATED BACK BOXES, COLOR TO MATCH DEVICE.
- H. REFER TO E6.0 FOR RISER DIAGRAMS.
- I. CONTRACTOR SHALL PROVIDE 120V DEDICATED RED LOCKING CIRCUIT BREAKER PER FIRE ALARM SYSTEM PANELS PER LOCATION.
- J. DETECTORS ON SLOPED CEILINGS SHALL BE LOCATED NO MORE THAN 36" FROM PEAK.

**NUMBERED SHEET NOTES**

- 1. INITIATION DEVICE TO BE PLACED ON BOTTOM OF BEAM.
- 2. AREA HEAT DETECTORS WILL INITIATE (CR) CONTROL RELAY MODULE TO ACTIVATE FIRE/SMOKE DAMPER(S).
- 3. PLACE FA BOOSTER PANEL AND AMPLIFIER PANEL BETWEEN POWER PANELS PA & PC.



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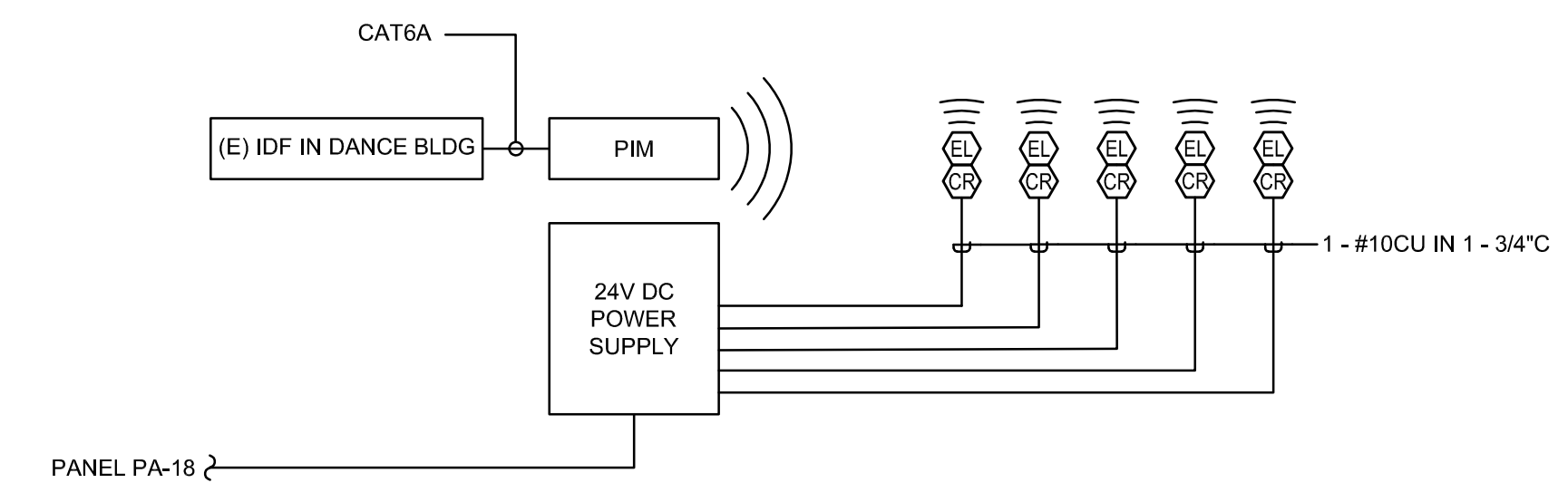
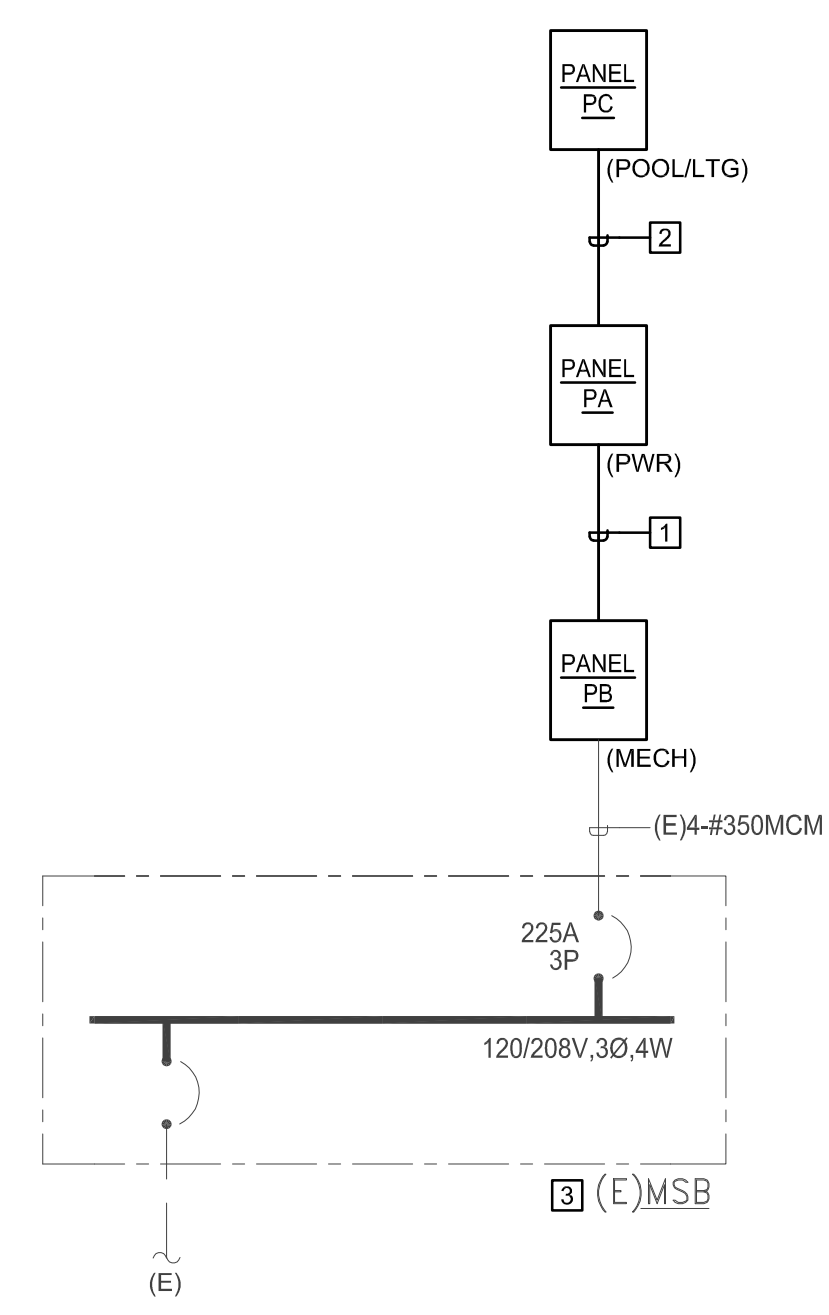
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date: 9/27/2018  
scale: 1/8" = 1'-0"  
job #: 17-429

FIRE ALARM PLAN  
**E5.1**

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- ### NUMBERED SHEET NOTES
- PROVIDE 4-#1 AND 1-#6 GND IN EXISTING 2" C.
  - PROVIDE 4-#1 AND 1-#8 GND IN EXISTING 2" C.
  - SEE OVERALL SITE PLAN ON SHEET E1.0 FOR LOCATION OF MSB OUTSIDE OF BLDG D.

**A** POWER ONE-LINE DIAGRAM  
E6.0 NOT TO SCALE

**B** SECURITY SINGLE-LINE DIAGRAM  
E6.0 NOT TO SCALE

### BP-A Booster Calculations

Location: BUILDING A ADMIN

Qty	Device	Standby	Alarm	Standby	Alarm
1	BPSSA	0.275000	0.440000	0.275000	0.440000
1	AUXILIARY CIRCUIT	0.055000	0.055000	0.055000	0.055000
Panel Load		0.330000	0.495000		

Device	CD	DRAW (EA)	NAC1	NAC2	NAC3	NAC4	NAC5	NAC6	TOTAL
SPEAKER STROBE	15	0.071							
SPEAKER STROBE	30	0.096							0.542
SPEAKER STROBE	75	0.136	4						
SPEAKER STROBE	110	0.195							
STROBE	15	0.071							
STROBE	30	0.074	2						0.148
STROBE	75	0.153							
STROBE	110	0.195							
SPEAKER									
SOUNDER									
Notification Appliance Circuit Loading		0.692							0.692

CIRCUIT ID	TOTAL A	LENGTH FT.	AWG	%VD	VD
NAC1	0.692	150	12	1.96%	0.40
NAC2		70	12		
NAC3		220	12		
NAC4					
NAC5					
NAC6					

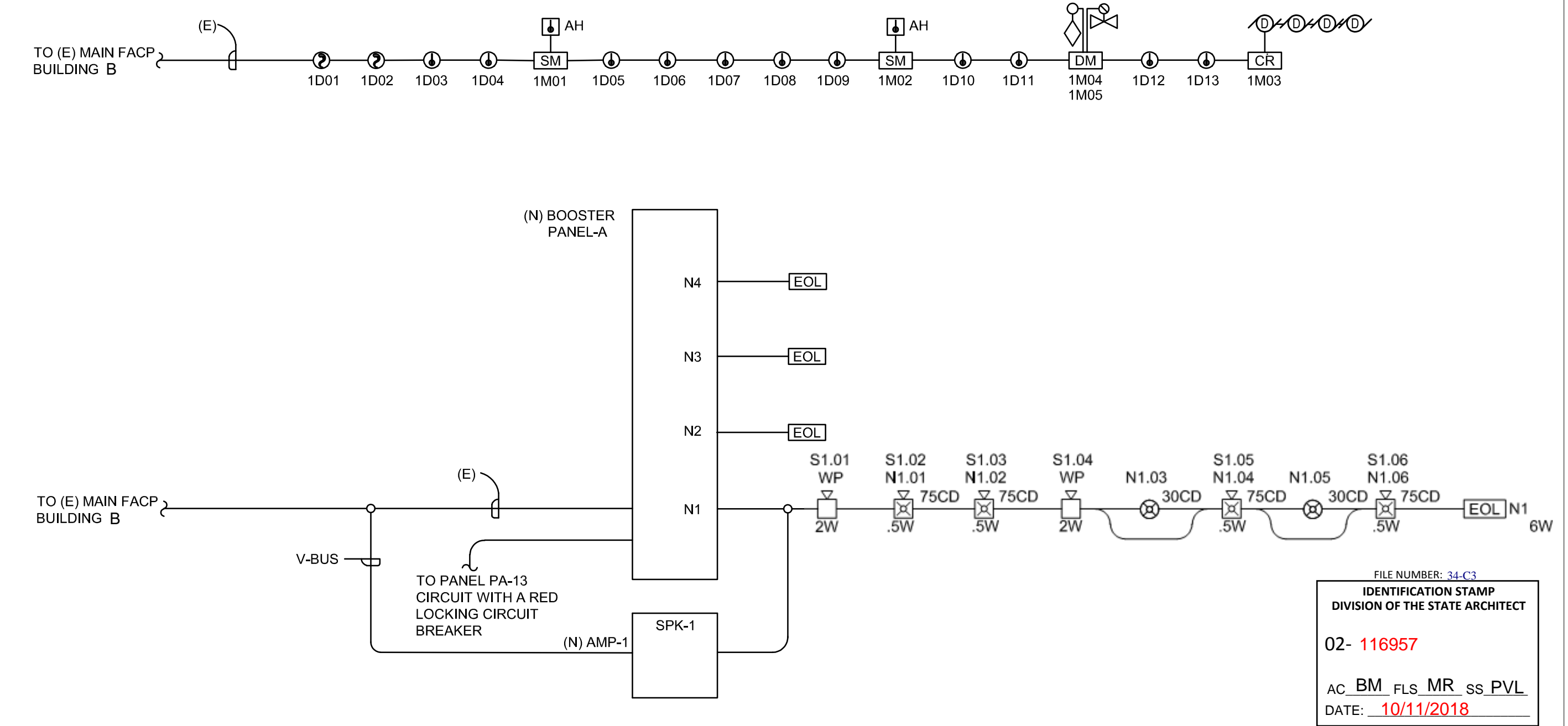
Standby	Alarm
0.330	1.187
24	7.52
15	0.30
1.64	9.88

Panel Loading: Panel Capacity (Amps) 6.00, Panel Load (Amps) 1.52

### AMP1 Calculations

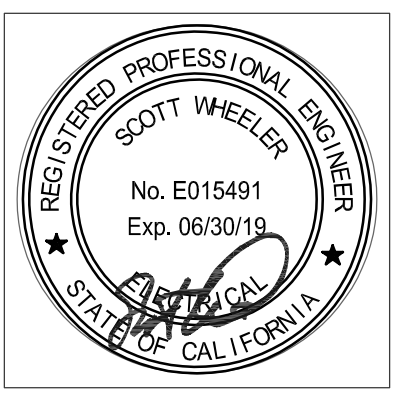
Device Type	QTY	Watts	Standby Current (amps)			Alarm Current (amps)		
			Current Draw	Total	Qty	Current Draw	Total	
1. System								
Main Amplifier	1	50	X 0.0050	= 0.0050	0	X 0.2480	= 0.2480	
			X 0.0050	= 0.0000	0	X 0.2480	= 0.0000	
			X 0.0050	= 0.0000	0	X 0.2480	= 0.0000	
2. Speakers								
Total Speaker Watts @ 25Vrms	0				0	0.0000	= 0.0000	
Total Speaker Watts @ 70.7Vrms	6				0	0.0849	= 0.0849	
<b>Total Standby Load</b>		<b>0.0050</b>			<b>Total Alarm Load</b>	<b>0.3329</b>		
		0						
<b>Standby Load Current (Amps)</b>		<b>0.0050 Amps</b>			<b>Required Standby Time in Hours</b>	<b>X 24</b>	<b>= 0.120 AH</b>	
<b>Alarm Load Current (Amps)</b>		<b>0.3329 Amps</b>			<b>Required Alarm Time in Hours</b>	<b>X 15</b>	<b>= 0.083 AH</b>	
					<b>Total Current Load</b>	<b>x 1.20</b>		
					<b>Total Ampere Hours Required</b>		<b>0.24 AH</b>	
					<b>Recommended Batteries:</b>		<b>3AH BATTERIES</b>	

\*Derating Factor required to compensate for the non-linear discharge characteristic of a battery.



**C** FIRE ALARM CALCULATIONS  
E6.0 NOT TO SCALE

**D** FIRE ALARM RISER  
E6.0 NOT TO SCALE



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ONE-LINE AND RISER DIAGRAMS  
**E6.0**



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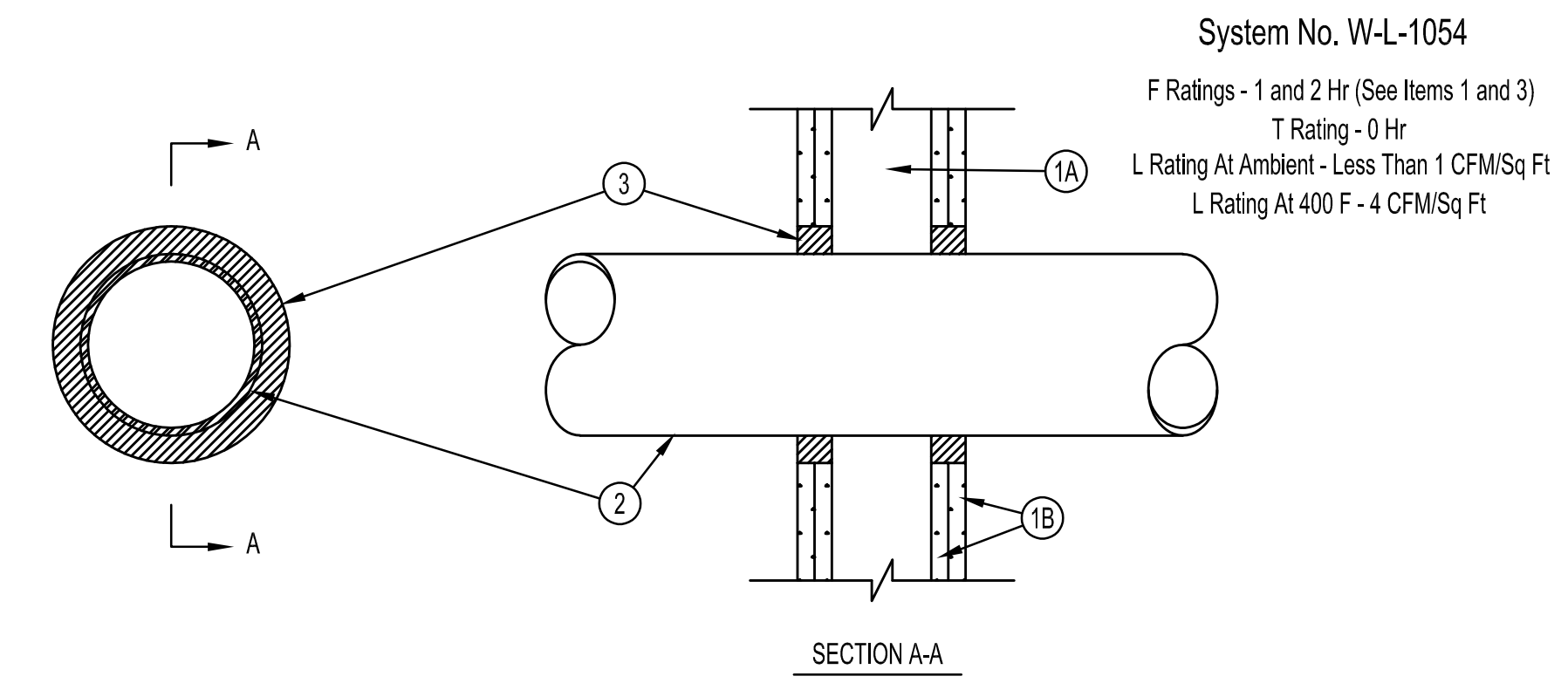
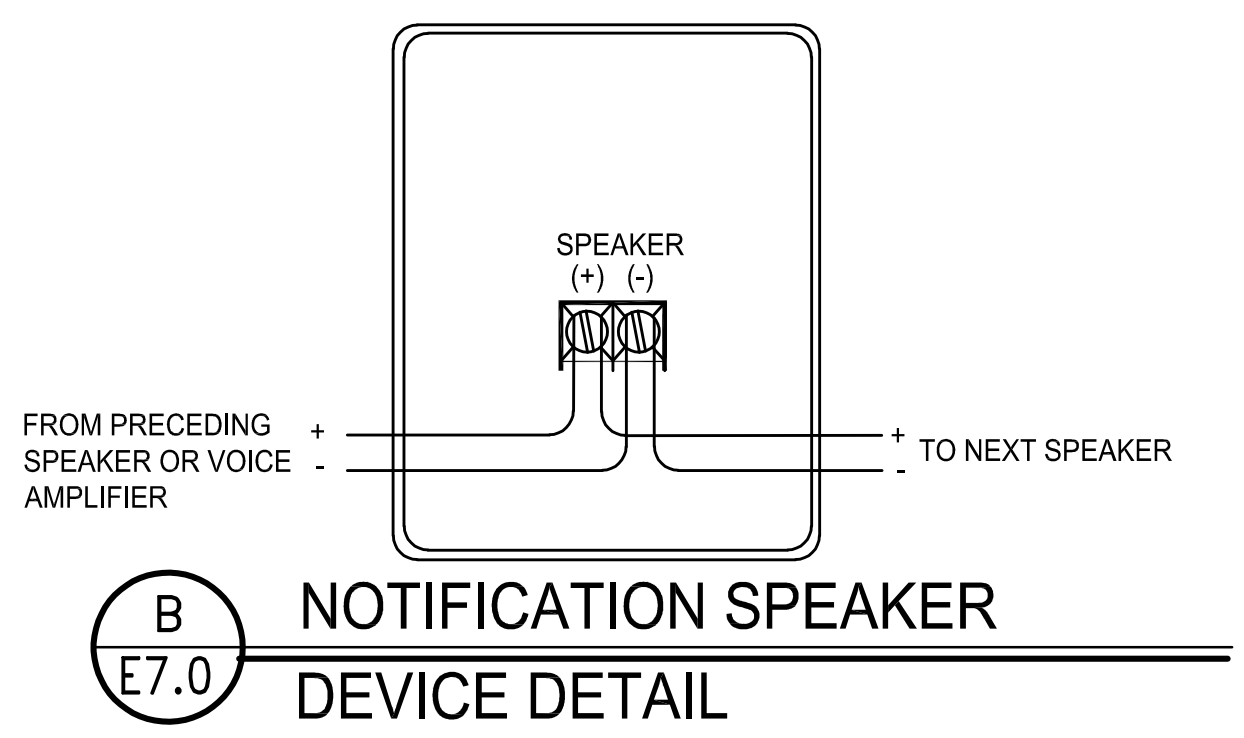
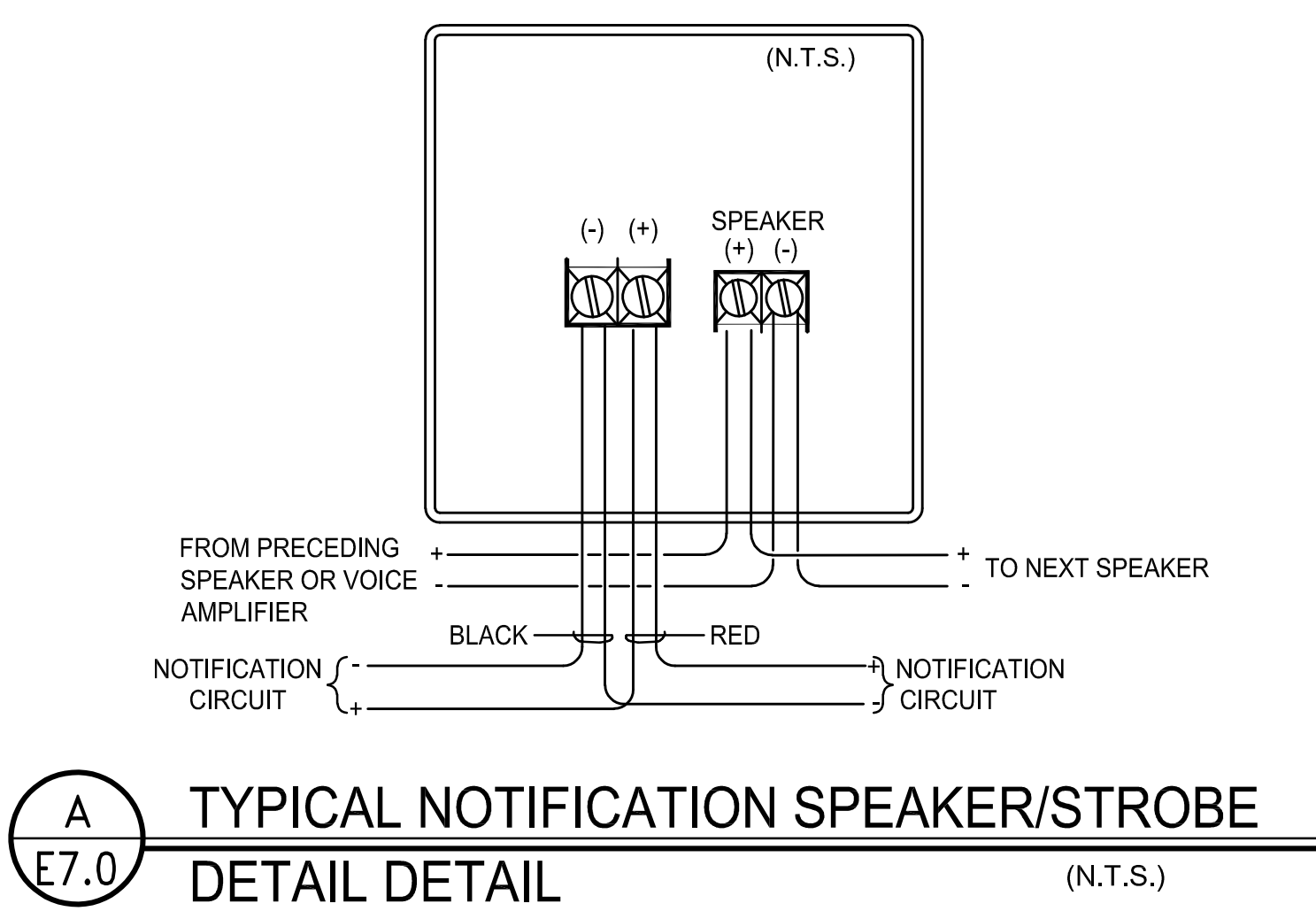
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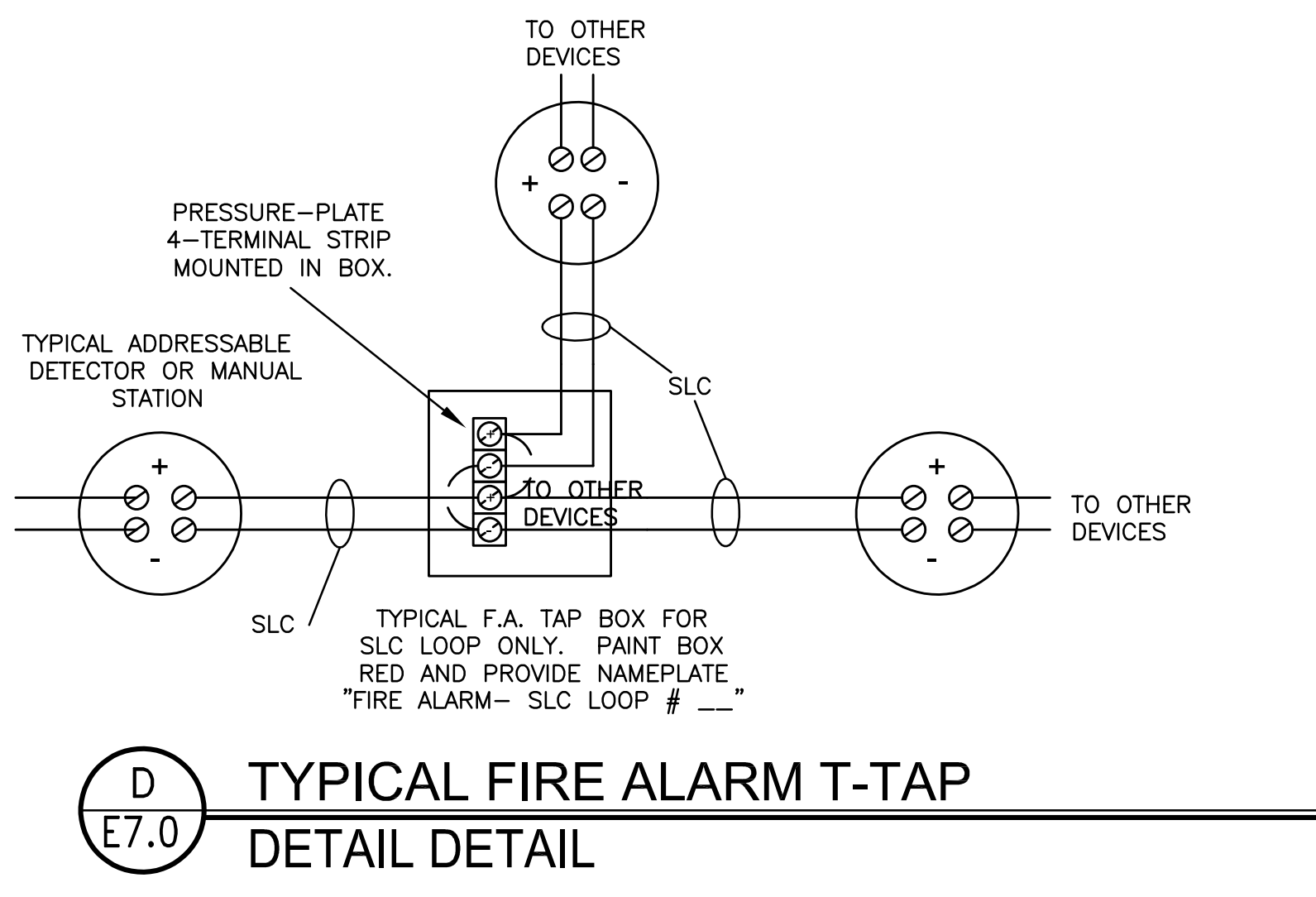
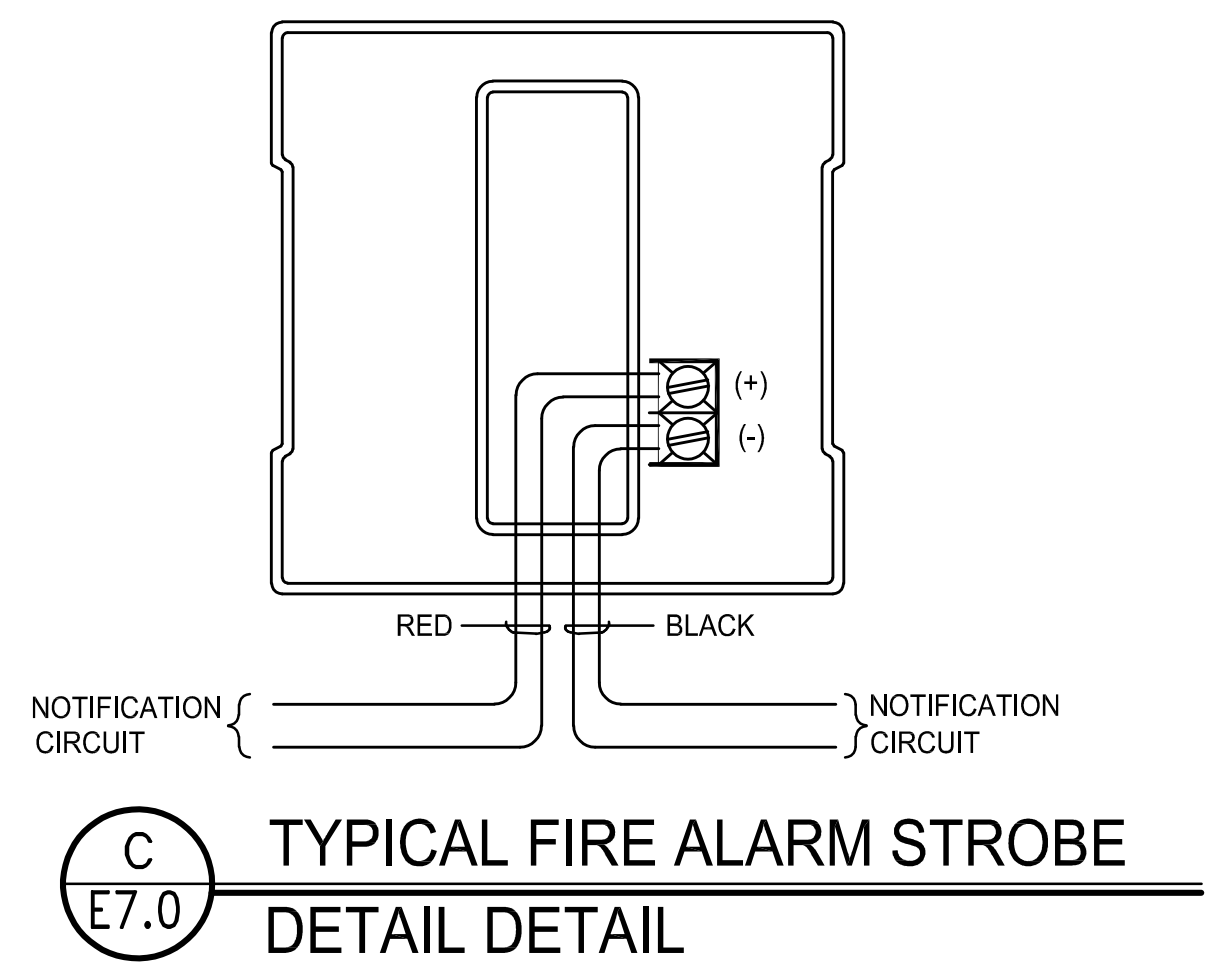
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scale: N.T.S.  
job #: 17-429

DETAILS  
E7.0

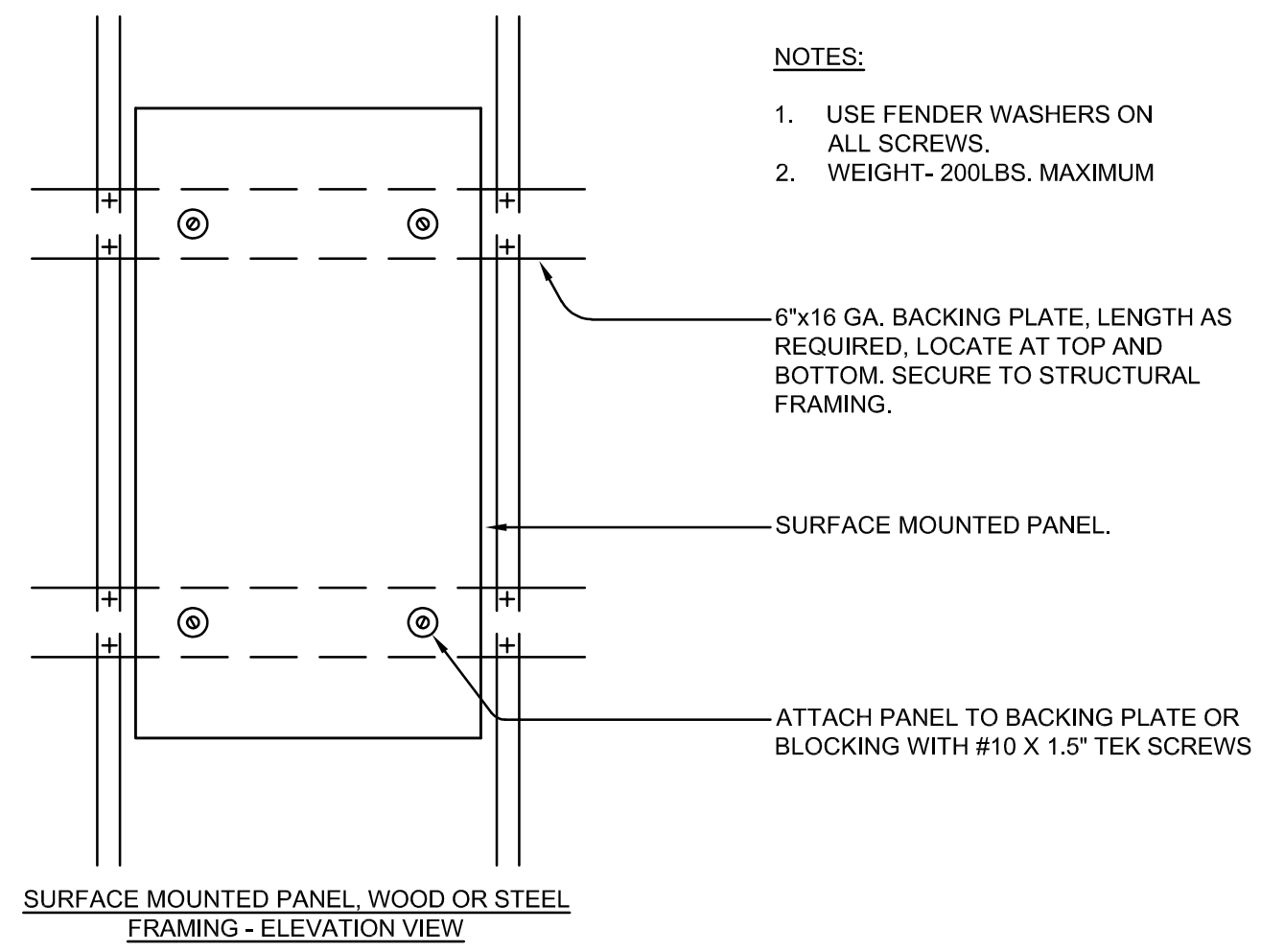


- Wall Assembly -- The 1 or 2 hr fire-rated gypsum wallboard/stud wall assembly shall be constructed of the materials and in the manner specified in the individual U300 or U400 Series Wall and Partition Designs in the UL Fire Resistance Directory and shall include the following construction features:
  - Studs -- Wall framing may consist of either wood studs or steel channel studs. Wood studs to consist of nom 2 by 4 in. lumber spaced 16 in. OC. Steel studs to be min 2-1/2 in. wide and spaced max 24 in. OC. When steel studs are used and the diam of opening exceeds the width of stud cavity, the opening shall be framed on all sides using lengths of steel stud installed between the vertical studs and screw-attached to the steel studs at each end. The framed opening in the wall shall be 4 to 6 in. wider and 4 to 6 in. higher than the diam of the penetrating item such that, when the penetrating item is installed in the opening, a 2 to 3 in. clearance is present between the penetrating item and the framing on all four sides.
  - Gypsum Board\* -- 5/8 in. thick, 4 ft wide with square or tapered edges. The gypsum board type, thickness, number of layers, fastener type and sheet orientation shall be as specified in the individual U300 or U400 Series Design in the UL Fire Resistance Directory. Max diam of opening is 32-1/4 in. for steel stud walls. Max diam of opening is 14-1/2 in. for wood stud walls.  
The F Rating of the firestop system is equal to the fire rating of the wall assembly.
- Through-Penetrants -- One metallic pipe, conduit or tubing to be installed either concentrically or eccentrically within the firestop system. The annular space shall be min 0 in. to max 2-1/4 in. Pipe may be installed with continuous point contact. Pipe, conduit or tubing may be installed at an angle not greater than 45 degrees from perpendicular. Pipe, conduit or tubing to be rigidly supported on both sides of wall assembly. The following types and sizes of metallic pipes, conduits or tubing may be used:
  - Steel Pipe -- Nom 30 in diam (or smaller) Schedule 10 (or heavier) steel pipe.
  - Iron Pipe -- Nom 30 in. diam (or smaller) cast or ductile iron pipe.
  - Conduit -- Nom 4 in diam (or smaller) steel electrical metallic tubing or 6 in. diam steel conduit.
  - Copper Tubing -- Nom 6 in. diam (or smaller) Type L (or heavier) copper tubing.
  - Copper Pipe -- Nom 6 in. diam (or smaller) regular (or heavier) copper pipe.
- Fill, Void or Cavity Material\* -- Sealant -- Min 5/8 in. thickness of fill material applied within the annulus, flush with both surfaces of wall. At the point or continuous contact locations between pipe and wall, a min 1/2 in. diam bead of fill material shall be applied at the pipe wall interface on both surfaces of wall.  
HILTI CONSTRUCTION CHEMICALS, DIV OF  
HILTI INC -- FS-One Sealant  
\*Bearing the UL Classification Mark

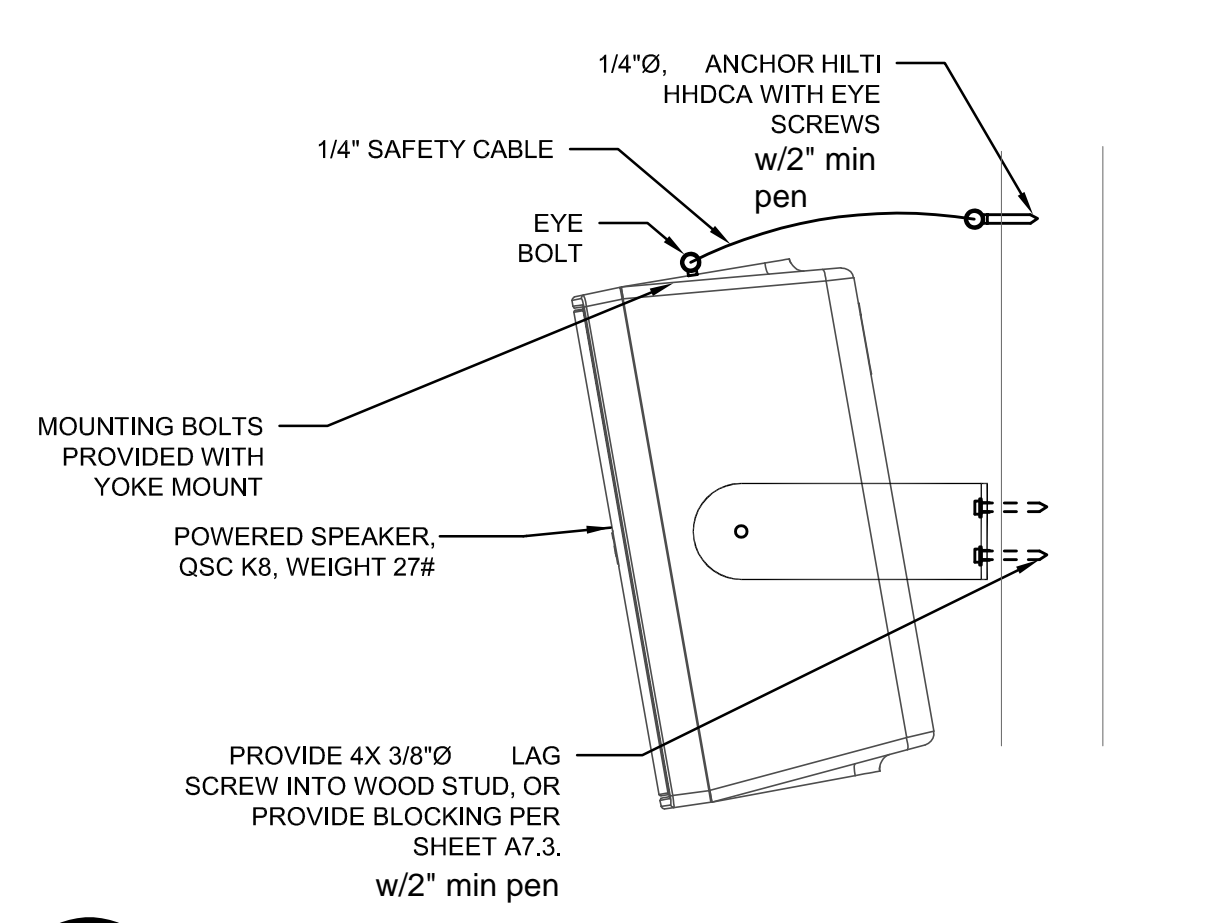
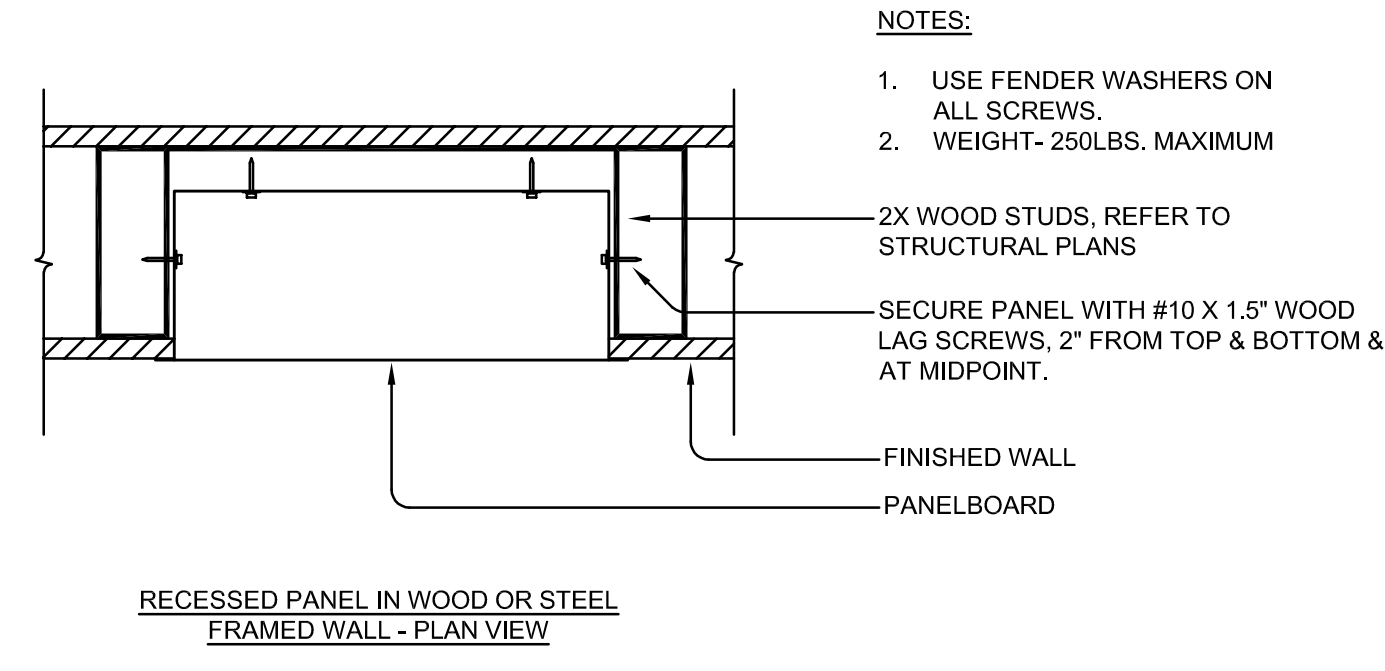


FILE NUMBER: 34-C7  
IDENTIFICATION STAMP  
DIVISION OF THE STATE ARCHITECT  
02- 116957  
AC BM FLS MR SS PVL  
DATE: 10/11/2018

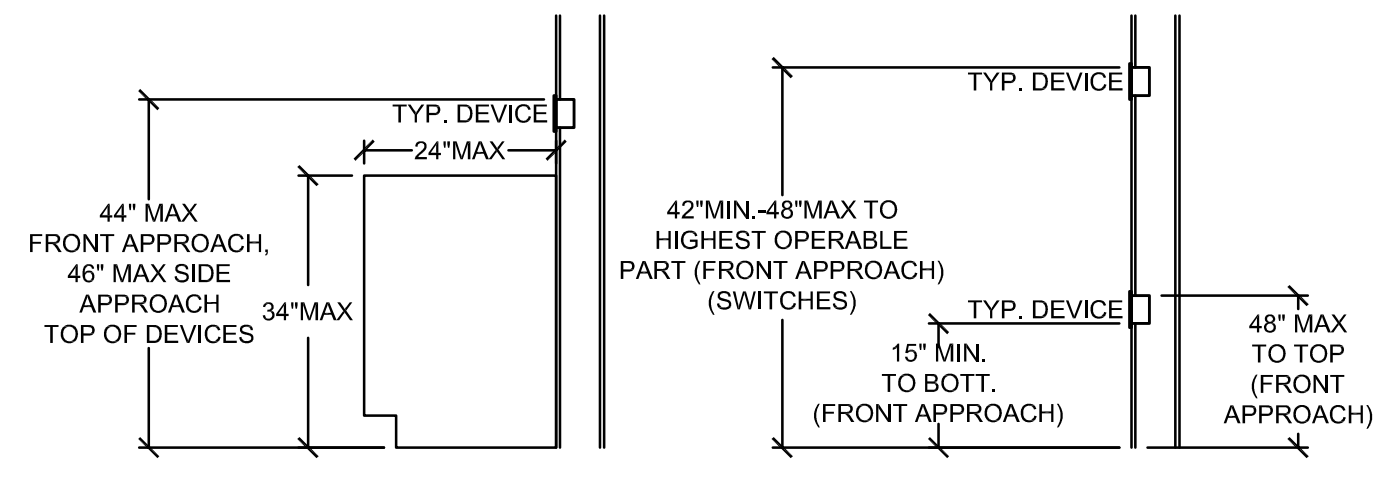




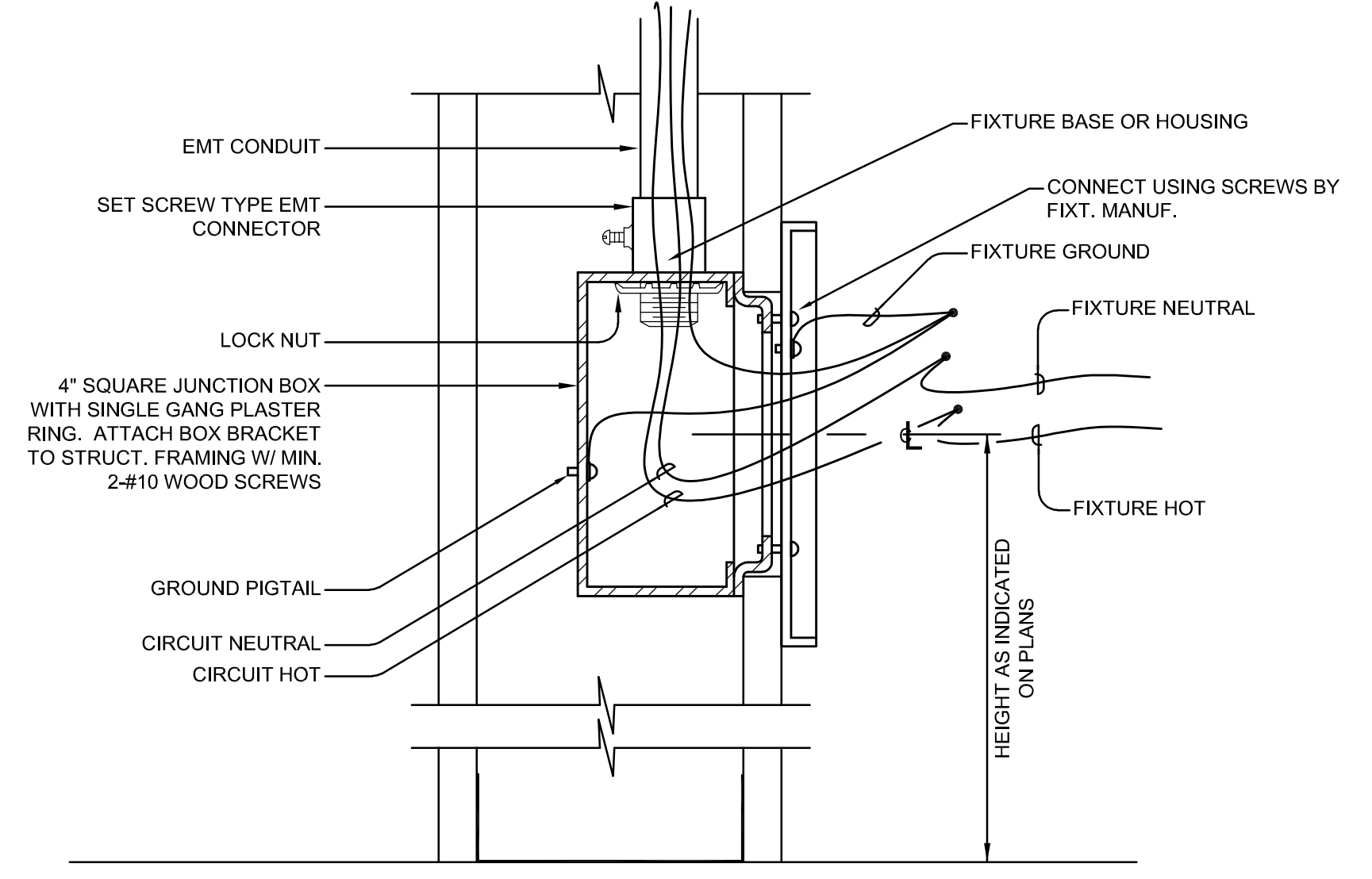
**A** SURFACE OR RECESSED PANELBOARD  
 E7.1 NTS



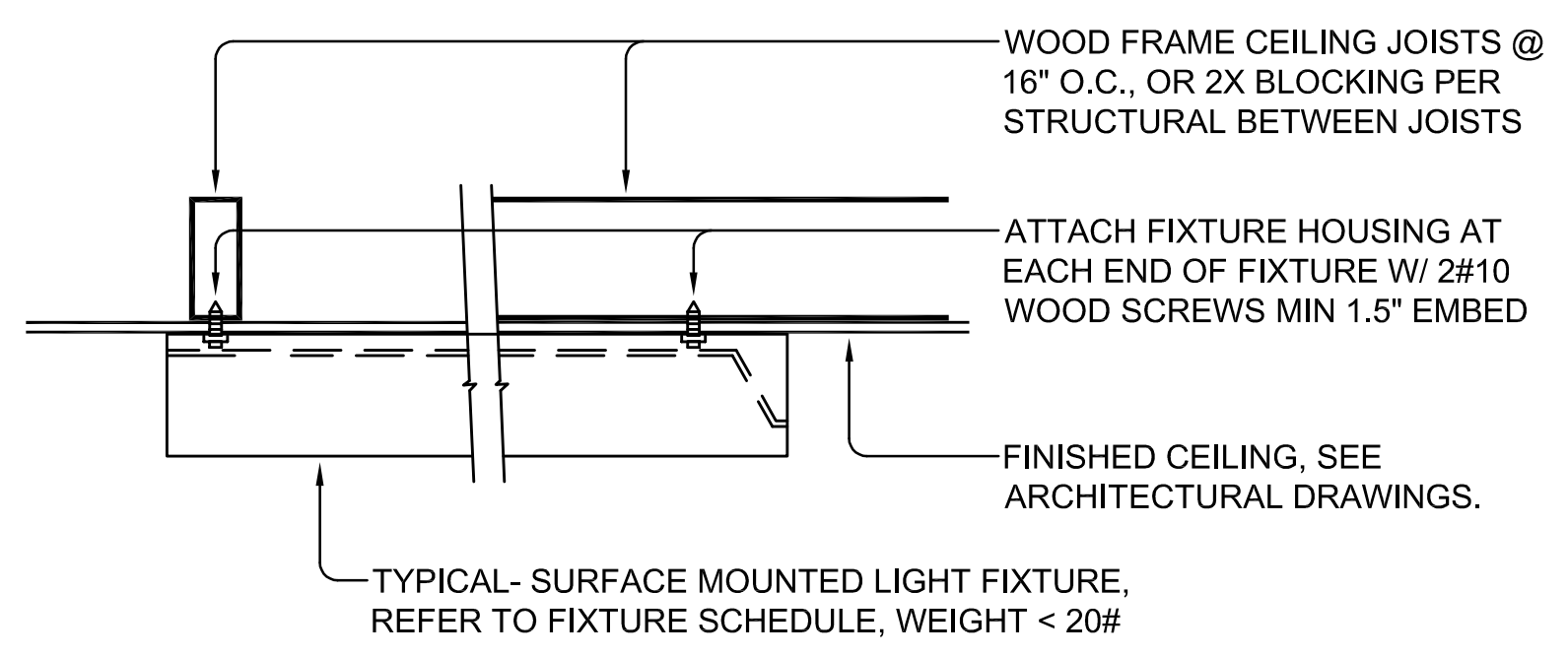
**B** SPEAKER MOUNTING DETAIL  
 E7.1 NTS



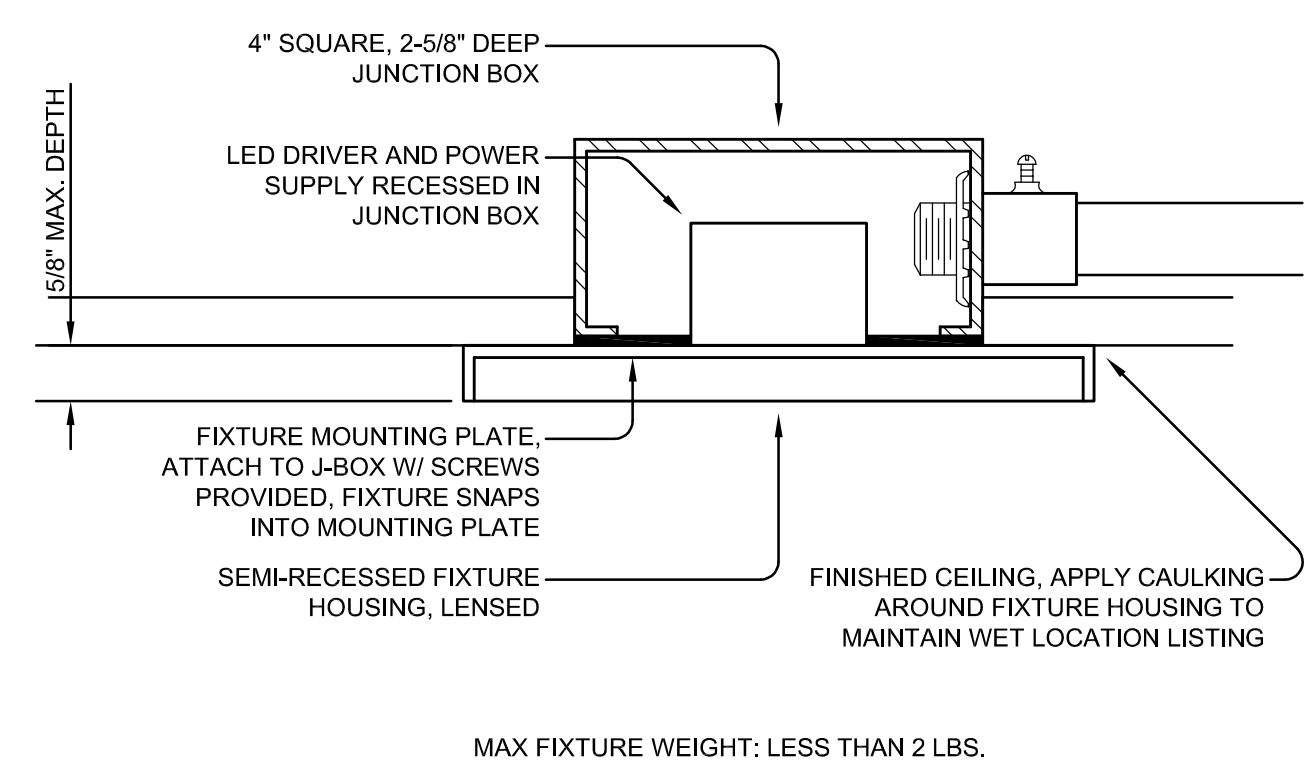
**C** DEVICE MOUNTING HEIGHT  
 E7.1 NTS



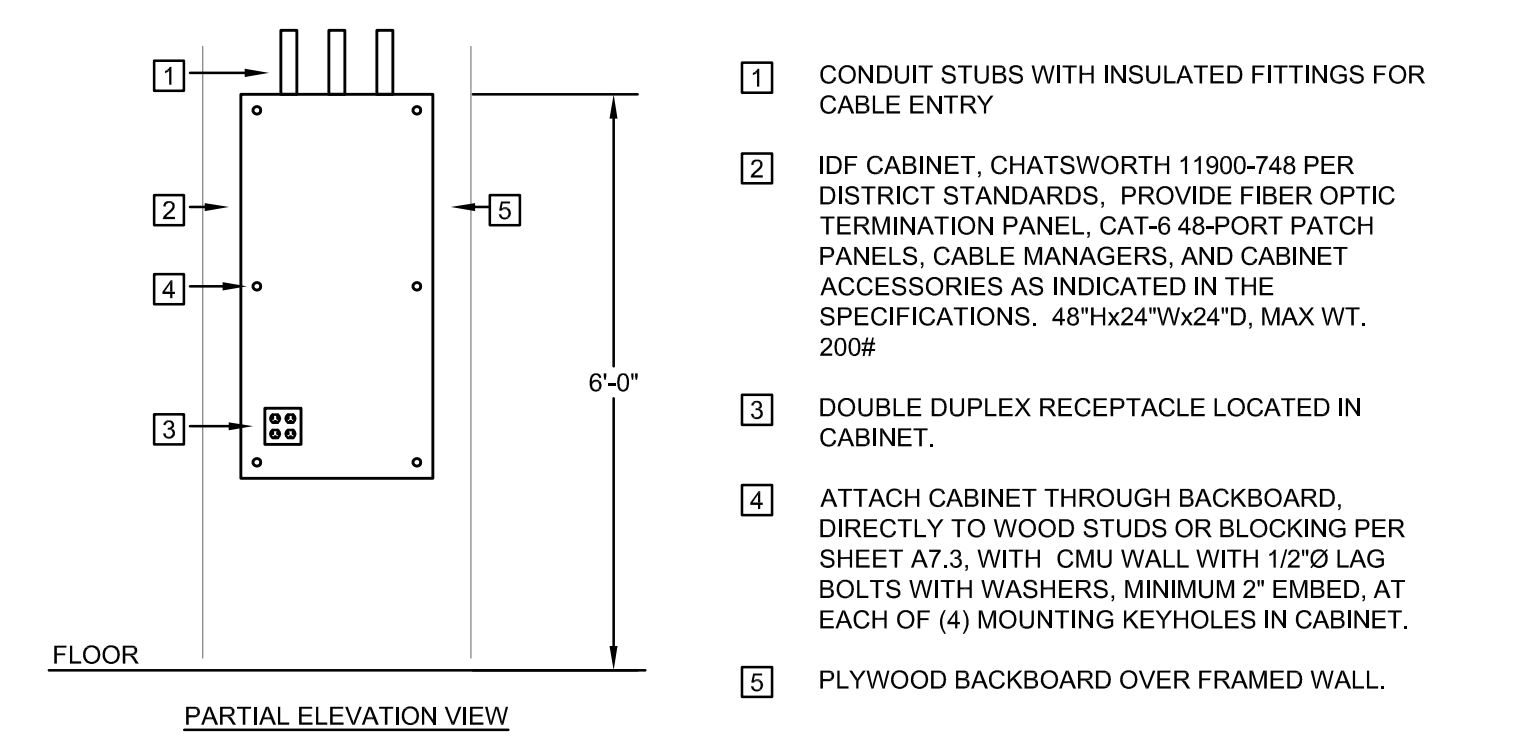
**D** WALL MOUNTED FIXTURE  
 E7.1 NONE



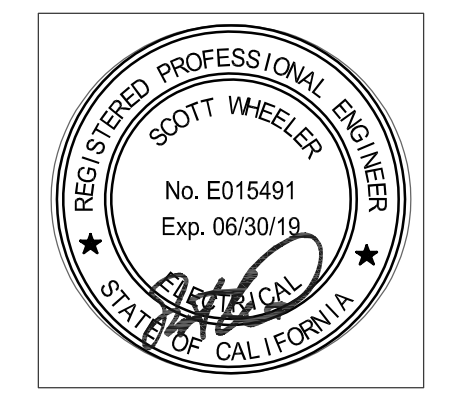
**E** SURFACE MOUNTED FIXTURE  
 E7.1 NONE



**F** SEMI-RECESSED FIXTURE  
 E7.1 NONE



**G** WALL MOUNTED EQUIPMENT CABINET  
 E7.1 NTS



Revisions


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POOL BUILDING RENOVATION

for

NJUHSD  
 NEVADA UNION HIGH SCHOOL, GRASS VALLEY, CA

date: 9/27/2018  
 scale: N.T.S.  
 job #: 17-429

DETAILS

**E7.1**

FILE NUMBER: 16-163  
 IDENTIFICATION STAMP  
 DIVISION OF THE STATE ARCHITECT

02- 116957

AC, BM, FL, MR, SS, PVL

DATE: 10/11/2018

PLUMBING SYMBOLS AND LEGEND

Table with plumbing symbols and their corresponding descriptions: AC ABOVE CEILING OVERHEAD, OH UNDER COUNTER, BF BELOW FLOOR, BS BELOW SLAB, BG BELOW GROUND, IW IN WALL, SM SURFACE MOUNT, VR VENT RISER, VTR VENT THRU ROOF, WDR WASTE DROP, RISER, FL FIRE SPRINKLER PIPING, WH WATER HEATER (SEE SCHEDULE), CWRD COLD WATER RISER DROP, HWRD HOT WATER RISER, DROP, HURT HOT WATER RETURN, WCO, FCO F.O.C. POINT OF CONNECTION, HOSE BIBB, PUSH BUTTON TO ENERGIZE DHW RECIRCULATION PUMP, OCCUPANCY SENSOR TO ENERGIZE DHW RECIRCULATION PUMP, C.O. COLD WATER PIPING, HW HOT WATER PIPING, HURT HOT WATER RETURN PIPING, W SANITARY WASTE PIPING, V VENT PIPING, SHUT OFF VALVE (S.O.V.) (LINE SIZED), GAS PIPING, SIZE INDICATED IN PARENTHESIS, EXISTING PIPING TO REMAIN, EXISTING PIPING TO BE REMOVED.

PIPE MATERIAL SCHEDULE

SANITARY WASTE & VENTING MATERIALS
(A) DRAINAGE WASTE AND VENT PIPING SHALL BE SCHEDULE 40 ABS DUV, NO HUB CAST IRON OR OTHER APPROVED MATERIAL HAVING A SMOOTH AND UNIFORM BORE. FITTINGS SHALL BE MADE OF SIMILAR MATERIAL. EXCEPTION: NO HUB CAST IRON SHALL BE USED WHERE SLOPE OF WASTE LINE IS LESS THAN 1/4 IN PER FOOT, OR WHERE WASTE PIPING IS ROUTED BETWEEN FLOORS OR RISERS IN WALLS.
(B) VENT PIPING SHALL EXTEND 12 INCHES ABOVE THE ROOF (MIN.) AND SHALL BE FLASHED WITH 4-POUND LEAD. THE LEAD FLASHING SHALL BE TURNED DOWN ON THE INSIDE OF THE VENT IN A NEAT MANNER. MINIMUM VENT SIZE AT VENT EXTENSION THROUGH ROOF SHALL BE 3" (MIN.) TO PREVENT FROST/SNOW CLOSURE. THE CHANGE IN DIAMETER SHALL BE MADE INSIDE THE BUILDING AT LEAST ONE (1) FOOT BELOW THE ROOF. VENTS SHALL BE PLACED ADJACENT TO UPPER RIDGE OF ROOF AND SHALL BE PROTECTED BY "MURPHY SPLITTER" OR METAL FORMED CRICKET APPROVED BY ADMINISTRATIVE AUTHORITY.
POTABLE WATER PIPING
(A) SCHEDULE 40 PVC PIPE MEETING THE REQUIREMENTS OF ATMD 1788 MAY BE USED FOR COLD WATER DISTRIBUTION OUTSIDE THE BUILDING. FITTINGS SHALL BE IN COMPLIANCE WITH 246.4.
(B) WATER PIPE AND FITTINGS SHALL BE TYPE K COPPER, ASTM B88. COPPER PIPING SHALL BE JOINED WITH VIEGA® PRESS FITTING. ALL MATERIAL USED WITHIN THE WATER SUPPLY SYSTEM, EXCEPT VALVES AND SIMILAR DEVICES, SHALL BE OF SIMILAR MATERIAL, EXCEPT WHERE OTHERWISE APPROVED BY THE ADMINISTRATIVE AUTHORITY.
FUEL GAS PIPING
(A) SCHEDULE 40 BLACK STEEL PIPE, ASTM A53, SCHEDULE 40 BLACK, WITH MALLEABLE IRON OR FORGED STEEL FITTINGS, SCREWED (THROUGH 2"). PROVIDE GAS COCK, DIRT LEG AND UNION AT EACH CONNECTION. GAS PIPING SHALL NOT BE BURIED BELOW SLAB UNLESS SPECIFICALLY INDICATED ON PLANS AND MEETING THE REQUIREMENTS OF CPC SECTION 1311.6.
(B) PLASTIC PIPE SHALL BE INSTALLED SHALL BE INSTALLED OUTSIDE UNDERGROUND ONLY. PIPING SHALL BE POLYETHYLENE CONFORMING TO ASTM D 2513.
(C) BURIED GAS PIPING MAY BE BLACK STEEL PIPE WITH FACTORY WRAPPED PLASTIC COVER AS APPROVED BY LOCAL ADMINISTRATIVE AUTHORITY, ASTM A53, SCHEDULE 40 BLACK, WITH MALLEABLE IRON OR FORGED STEEL FITTINGS, SCREWED (THROUGH 2").

PLUMBING NOTES

- 1. SCOPE OF WORK
• REMOVE EXISTING PLUMBING FIXTURES AS INDICATED ON ARCHITECTURAL PLANS.
• REMOVE EXISTING PIPING NOT SHOWN TO BE REUSED ON PLANS.
• REMOVE EXISTING BOILERS AND WATER HEATERS NOT SHOWN TO BE REUSED ON PLANS.
• EXISTING POOL BOILER AND FILTRATION SYSTEM TO REMAIN.
2. ALL WATER AND WASTE PLUMBING INSTALLATION WORK AND ALL PLUMBING MATERIALS SHALL BE IN ACCORDANCE WITH THE 2016 CALIFORNIA PLUMBING CODE.
3. IT IS THE INSTALLING CONTRACTOR'S RESPONSIBILITY TO ASSURE ALL MECHANICAL SYSTEMS FUNCTION PROPERLY, SAFELY, AND MEET ALL LOCAL, STATE AND REGIONAL CODES.
4. ALL WORK IS TO CONFORM TO THE ACCEPTED STANDARDS OF THE TRADE. THE ENGINEER IS TO BE NOTIFIED IF ANY SUBSTITUTIONS ARE SEEN TO BE NECESSARY.
5. HOT AND COLD WATER PIPE SIZING IS BASED ON APPENDIX A OF THE 2016 CPC WITH A PRESSURE DROP IN PIPING NOT TO EXCEED 5 PSI/100-FT LENGTH.
6. HOSE BIBBS SHALL BE FREEZE-PROOF AND EQUIPPED WITH APPROVED BACKFLOW PREVENTION DEVICE.
7. GAS PIPING SIZED ACCORDING TO TABLE 1216.2(1) OF THE 2016 CPC. PIPE SIZING FOR NATURAL GAS LESS THAN 2 PSI WITH PRESSURE DROP = 0.5 IN.W.C.
8. DISTANCE FROM METER TO FURTHEST AFFLIANCE = 42 FEET. FITTING EQUIVALENT LENGTH = 12 FEET. USE 60 FEET ROW IN TABLE 1216.2(1). GAS PIPING SHALL SCHEDULE 40 BLACK STEEL.
9. PROVIDE SHUTOFF VALVES OR STOPS AT EACH CONNECTION, AT GAS CONNECTIONS, PROVIDE GAS COCK, DIRT LEG, UNION AND FLEX CONNECTION.
10. CONTRACTOR SHALL PARTICIPATE IN BID WALK-THRU AND SHALL FAMILIARIZE THEMSELVES WITH EXISTING CONDITIONS. BIDS SHALL BE ADJUSTED TO ACCOMMODATE ANY EXISTING CONDITIONS WHICH ARE NOT SHOWN ON PLANS AND ARE VISIBLE DURING WALK-THRU. ANY AND ALL DEVIATIONS FROM PLANS SHALL BE BROUGHT TO THE ENGINEER'S ATTENTION.
11. CONTRACTOR SHALL VERIFY SITE DIMENSIONS. NO CHANGE ORDERS WILL BE ALLOWED FOR CONDITIONS WHICH COULD BE VERIFIED BEFORE CONSTRUCTION.
12. CONTRACTOR SHALL COORDINATE WITH OTHER TRADES. NO CHANGE ORDERS WILL BE ALLOWED FOR ITEMS THAT COULD HAVE BEEN COORDINATED IN THE FIELD.
13. FIXTURES SHALL MEET CURRENT CPC AND CAL-GREEN CODES. MAXIMUM FLOW RATES SHALL BE AS FOLLOWS:
• SINKS 18 GPM
• LAVATORIES 0.5 GPM
• SHOWERS 2.0 GPM
• WATER CLOSETS 1.28 GPF
14. FURNISH AND INSTALL ALL MATERIALS AND PERFORM ALL LABOR NECESSARY FOR A COMPLETE INSTALLATION OF PLUMBING WORK INDICATED ON THE DRAWINGS. PROVIDE ANY INCIDENTAL WORK NOT SHOWN OR SPECIFIED, WHICH CAN REASONABLY BE INFERRED OR TAKEN AS BELONGING TO THE WORK AND NECESSARY TO PROVIDE THE COMPLETE SYSTEM.
15. PROVIDE ALL NECESSARY PLUMBING CONNECTIONS TO EQUIPMENT FURNISHED UNDER OTHER DIVISIONS OR SECTION OR BY OWNERS. PROVIDE SHUTOFF VALVES OR STOPS AT EACH CONNECTION.
16. PIPING IS TO BE FIELD LOCATED IN SUCH A WAY AS TO AVOID OBSTACLES, MEET CALIFORNIA PLUMBING CODE (CPC) REQUIREMENTS AND ALLOW SERVICE CLEARANCE TO AREAS AND EQUIPMENT THAT MAY REQUIRE SERVICING.
17. ALL HORIZONTAL WASTE / VENT PIPES SHALL HAVE A MINIMUM SLOPE OF 1/4" PER FOOT. IF EXISTING INVERT ELEVATION DOES NOT FOR 1/4" PER FOOT, 1/8" PER FOOT WILL BE ALLOWED WITH THE WASTE PIPING UPSIZED.
18. HORIZONTAL VENT PIPE SHALL BE 60 GRADED AND CONNECTED AS TO DRIP BACK BY GRAVITY TO THE DRAIN PIPE IT SERVES PER 2013 CPC 905.2. VENT PIPE SHALL TERMINATE A MINIMUM OF 10 FEET FROM FRESH AIR INTAKE.
19. SLOPE ALL CONDENSATE AT 1/4" PER FT. CONDENSATE SHALL BE COPPER. INSTALL P-TRAP ON CONDENSATE CONNECTION TO LRVY. TERMINATE CONDENSATE PIPE INDIRECTLY TO EXISTING FLOOR DRAIN.
20. INSULATE ALL POTABLE HOT WATER SUPPLY & RETURN PIPING WITH K-FLEX 3/4" WALL THICKNESS INSUL-TUBE® OR EQUAL. CONDUCTIVITY = 0.23 (BTU-IN/HR-FT) AT 75°F IN NON CONDITIONED SPACE, IN ACCORDANCE WITH ASTM C117 OR C918.
21. FOR EXACT LOCATION OF PLUMBING FIXTURES AND MOUNTING HEIGHTS, SEE ARCHITECTURAL ELEVATIONS.
22. PIPING SHALL BE SUPPORTED AND BRACED IN ACCORDANCE WITH CHAPTER 3 OF THE 2013 CPC WITH SUPERSTRUT HANGERS, OR EQUAL. PROVIDE ISOLATORS AT ALL HANGERS WHERE PIPING IS NOT INSULATED.
23. TRAP PRIMERS SHALL BE PROVIDED FOR ALL FLOOR DRAINS.
24. CLEANOUTS IN FIRE RATED WALLS SHALL HAVE BOTH METAL BODY AND COVER CONSISTENT WITH PIPE MATERIAL SCHEDULE.
25. PLUMBING VENTS SHALL BE AT LEAST 10' FROM OR 3' ABOVE ANY DOOR, OPENABLE WINDOW, MECHANICAL AIR INTAKE, OR OTHER INLETS INTO THE BUILDING PER CPC 906.2.
26. DISINFECTION OF WATER SYSTEM
• PRIOR TO FINAL INSPECTION, CLEAN AND DISINFECT DOMESTIC HOT AND COLD WATER SYSTEMS, SPACE HEATING SYSTEMS AND FIRE PROTECTION SYSTEMS CONNECTED TO DOMESTIC WATER MAINS. PERFORM ALL WORK PER AWWA STANDARD PROCEDURES FOR DISINFECTING WATER MAINS AND AS REQUIRED BY LOCAL BUILDING AND HEALTH DEPARTMENT CODES.
• WITH ALL FIXTURES CONNECTED AND OPERABLE AND READY FOR USE AND WHEN, BY TEST, SYSTEM IS PROVED TO BE FREE FROM LEAKS, THOROUGHLY FLUSH BY FULLY OPENING EVERY OUTLET AND OPERATING EVERY FIXTURE UNTIL CLEAR WATER FLOWS FROM ALL OUTLETS AND FIXTURES.
• FILL SYSTEM COMPLETELY FULL OF WATER AND INJECT DISINFECTANT SLOWLY AND CONTINUOUSLY AT AN EVEN RATE (NOT IN SLUGS) UNTIL AN ORTHOTOLIDIN TEST AT EACH OUTLET SHOWS A CHLORINE RESIDUAL CONCENTRATION OF AT LEAST 50 PARTS PER MILLION (PPM).
• MAINTAIN CONDITION FOR 24 HOURS WITH CHLORINE RESIDUAL OF 50 PPM RETAINED IN SYSTEM FOR THIS 24 HOUR PERIOD. IF AFTER 24 HOURS, ORTHOTOLIDIN TESTS INDICATE THAT CHLORINE RESIDUAL CONCENTRATION HAS DECREASED BELOW 50 PPM, THEN DISINFECTION PROCEDURE MUST BE REPEATED UNTIL AN APPROVED RESULT IS OBTAINED.
• WHEN THE ABOVE PROCEDURE HAS BEEN COMPLETED, FLUSH OUT ENTIRE SYSTEM WITH FRESH WATER UNTIL AN ORTHOTOLIDIN TEST AT ANY OUTLET SHOWS A RESIDUAL OF NOT MORE THAN 0.02 PPM.
• POST WARNING SIGNS AT ALL OUTLETS AND IN CONSPICUOUS AREAS WHILE DISINFECTING THE SYSTEM.
27. TESTING OF PIPING
(A) ALL PIPING SHALL TESTED AT COMPLETION OF ROUGH-IN. TEST IN ACCORDANCE WITH THE FOLLOWING SCHEDULE TO SHOW NO LOSS IN PRESSURE OR VISIBLE LEAKS AFTER A MINIMUM DURATION OF FOUR (4) HOURS AT THE TEST PRESSURE INDICATED.
(B) ISOLATE FROM THE SYSTEM ALL EQUIPMENT WHICH MAY BE DAMAGED BY TEST PRESSURE. TEST SCHEDULE AS FOLLOWS:
SYSTEM TESTED TEST PRESSURE PSIG TEST WITH FILL WITH WATER TO TOP OF WATER HIGHEST JOINT IN SYSTEM; ALLOW TO STAND 2 HOURS OR LONGER AS DIRECTED BY INSPECTOR.
ALL HOT TEMPERED AND 150 PSIG WATER COLD PIPING.

FILE NUMBER: 34-G3
IDENTIFICATION STAMP
DIVISION OF THE STATE ARCHITECT
02- 116957
AC: BM, FLs, MR, SS, PVL
DATE: 10/11/2018

PLUMBING EQUIPMENT SCHEDULE

Table with 5 columns: SYMBOL, DESCRIPTION, MFR & MODEL #, SPECIFICATIONS, NOTES. Includes entry for 119 GALLON GAS WATER HEATER.

PLUMBING FIXTURE SCHEDULE

Table with 4 columns: SYMBOL, DESCRIPTION, MFR & MODEL #, ACCESSORIES. Lists various fixtures like toilets, showers, and sinks with their specifications and accessories.

September 13, 2016
MEP Component Anchorage Note
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 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 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.
Piping, Ductwork, and Electrical Distribution System Bracing Note
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 2016 CBC, Sections 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 - Option 1: Detailed on the approved drawings with project specific notes and details.
MP MD PP E - Option 2: Shall comply with the applicable OSHPD Pre-Approval (OPM #) #OPM-0043-13 MASON INDUSTRIES or OPM-0052-13 EATON'S B-LINE
MP MD PP E - 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.



Revisions
10-2-2018 PLAN CHECK

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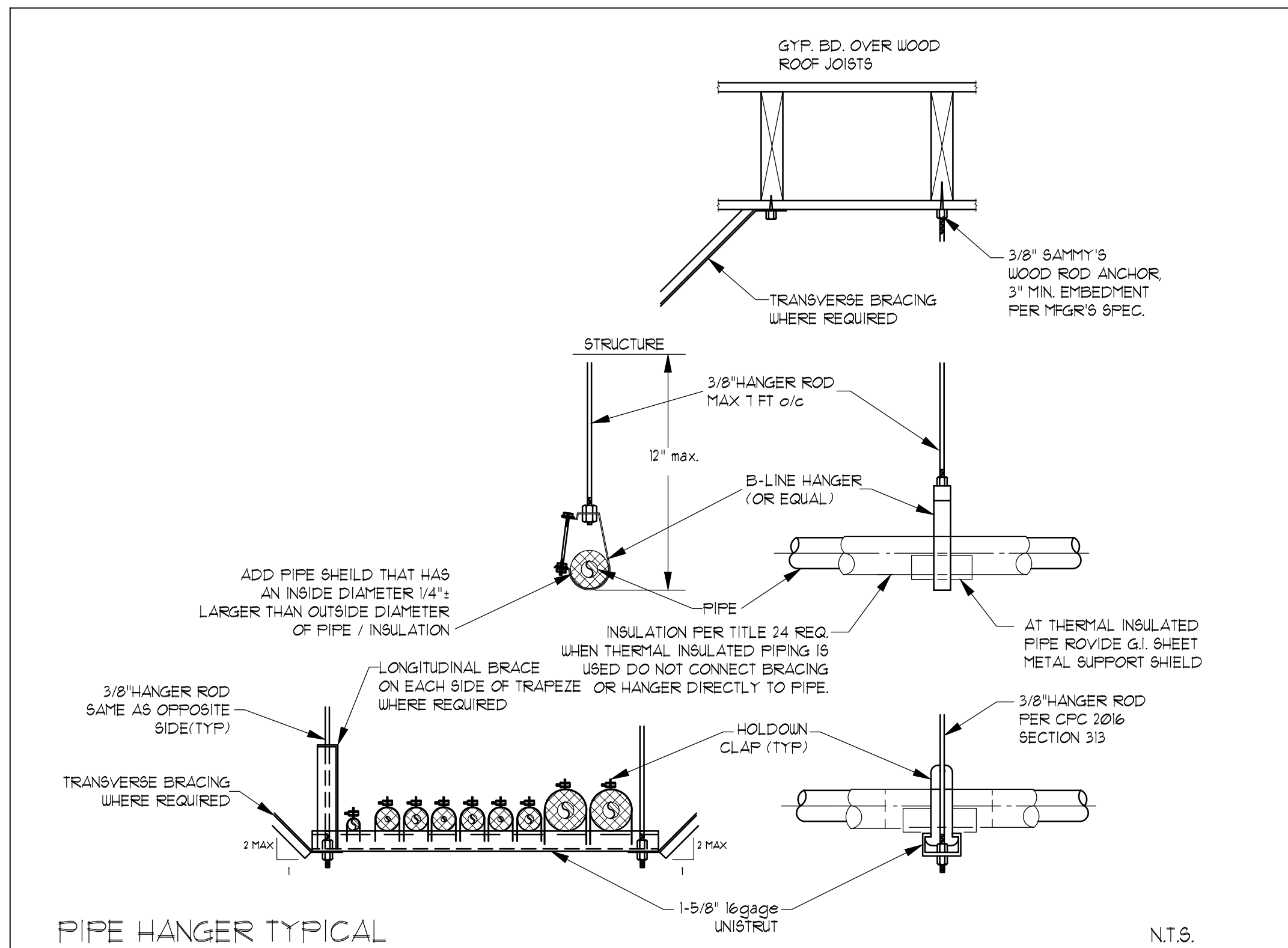
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Pool Building Renovation
for
NJUHSD
NEVADA UNION HIGH SCHOOL, GRASS VALLEY, CA

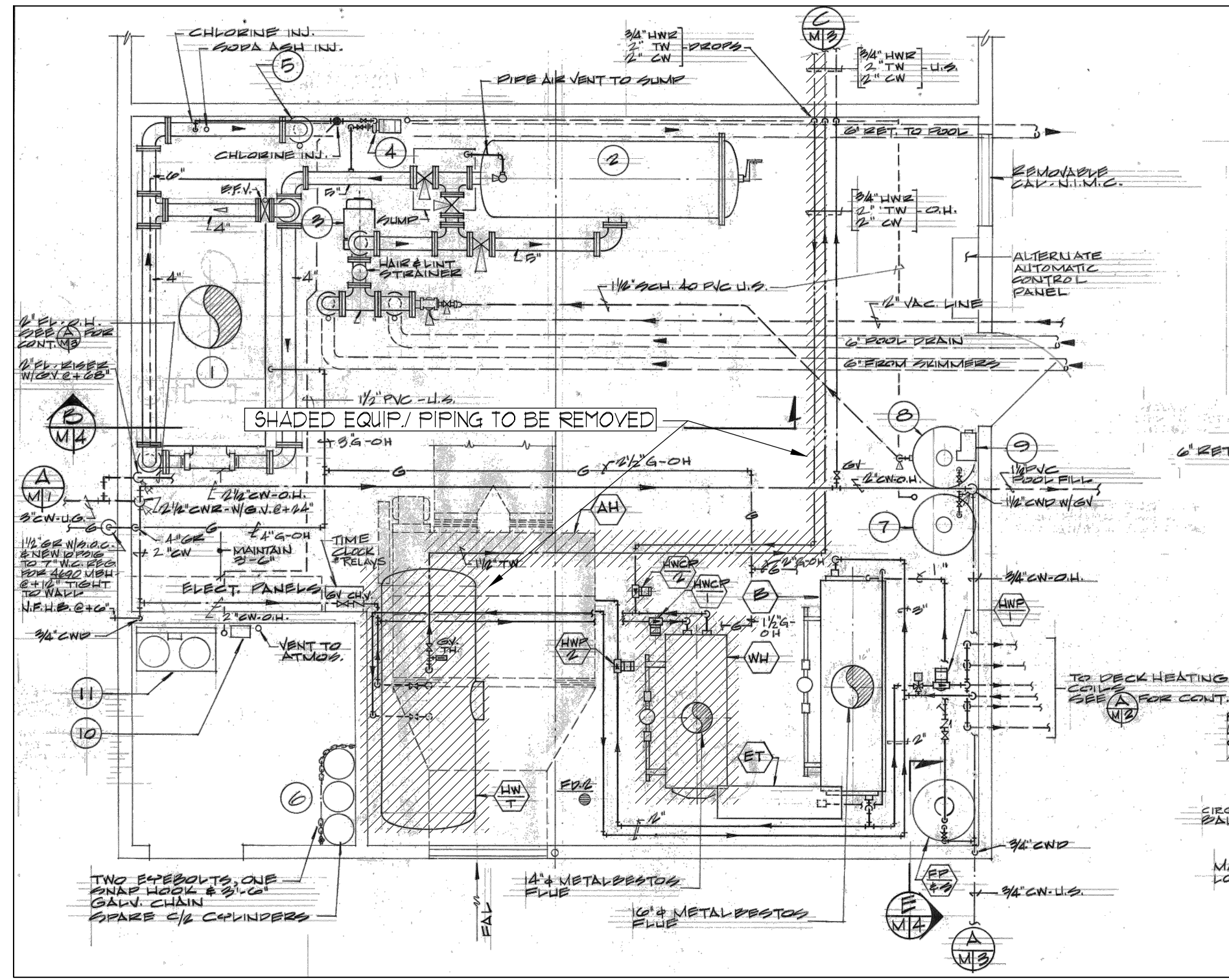
7-25-2018
18-089

PLUMBING NOTES AND SCHEDULES
P0.1

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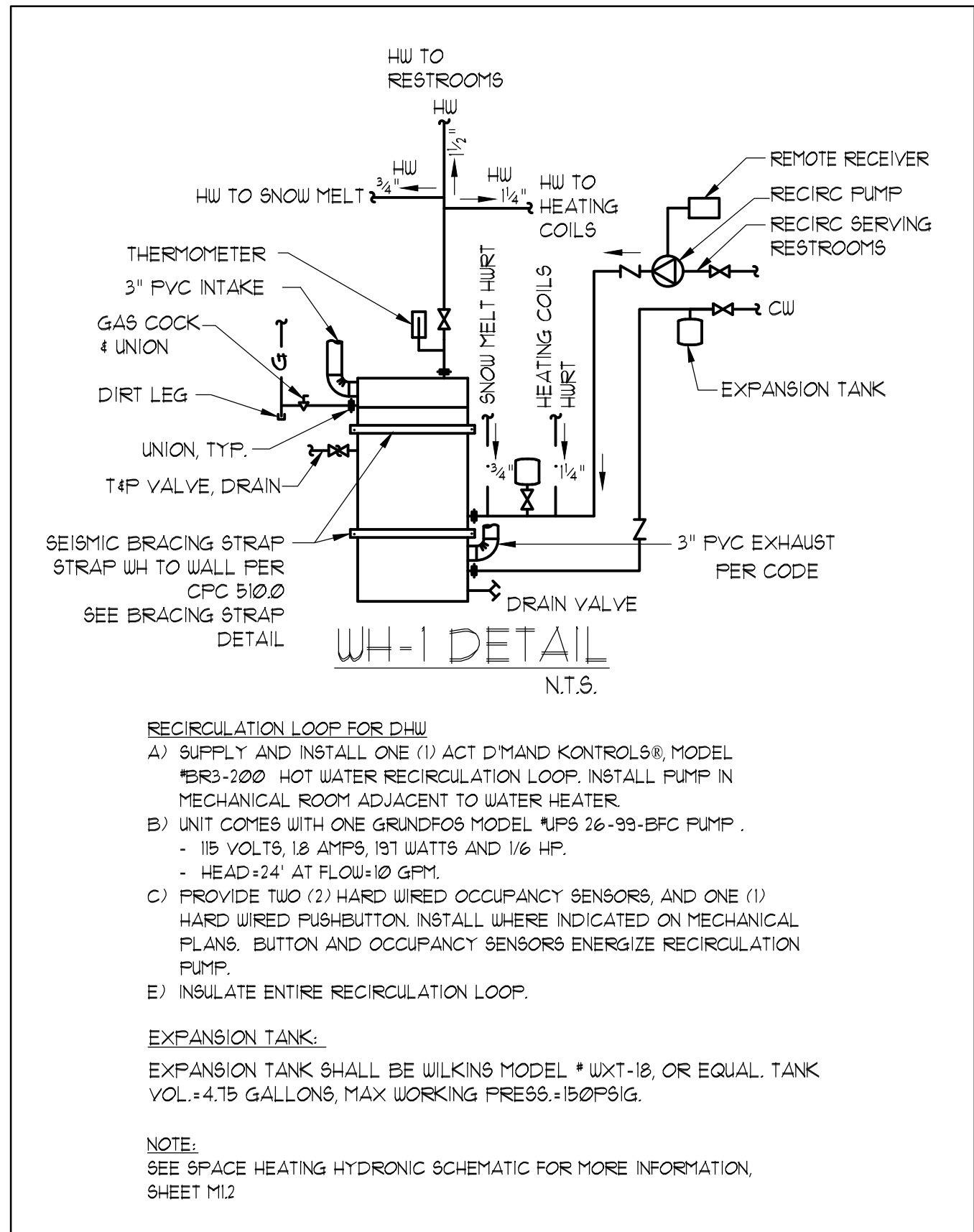
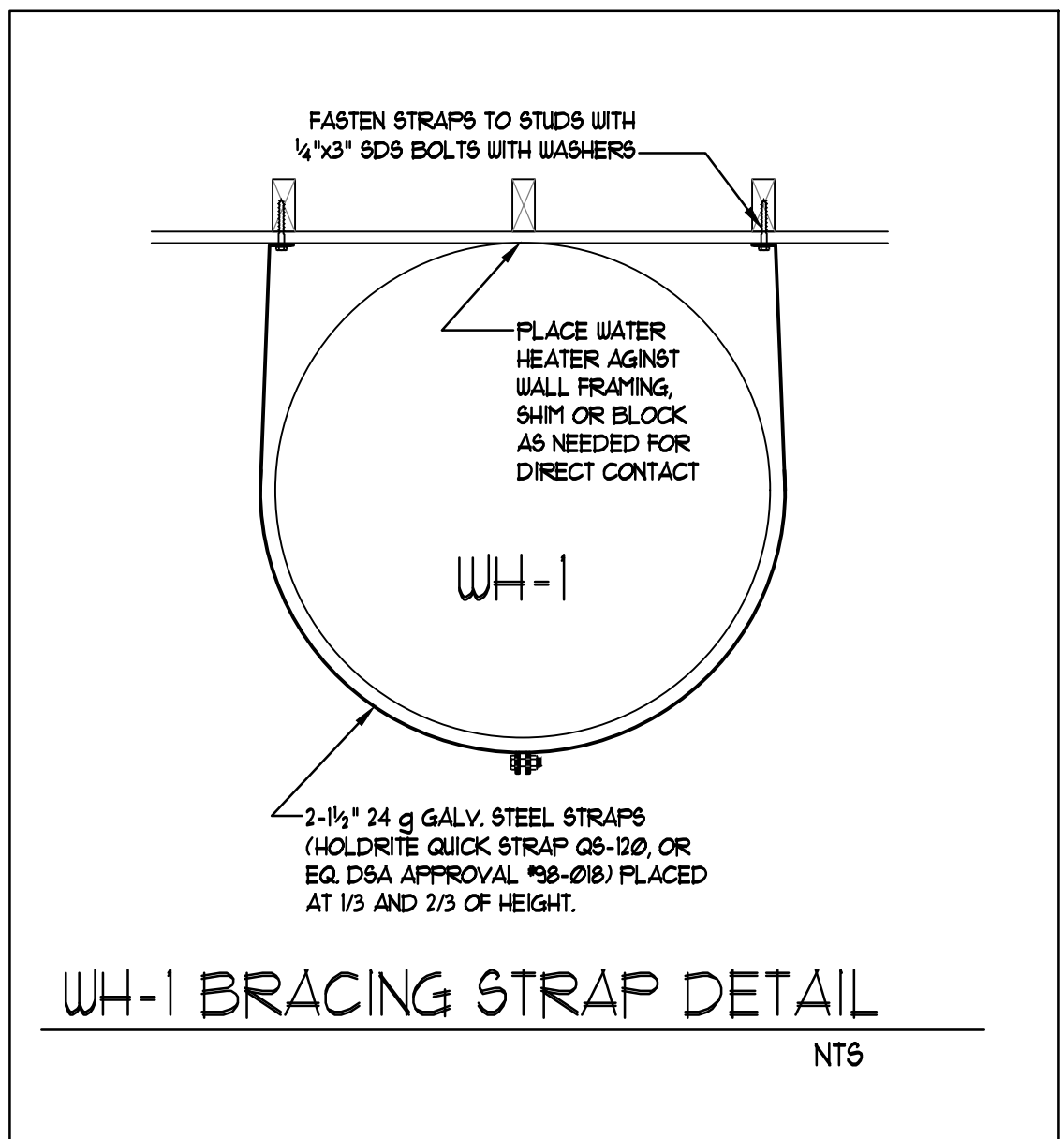


- NOTE:
- 1) ALL PIPING TO BE INSTALLED AS PER SMACNA GUIDELINES FOR SEISMIC RESTRAINTS OF PLUMBING PIPING SYSTEMS
  - 2) PROVIDE TRAPEZE BRACING PER OPM-0043 OR OPM-0052 WHERE WEIGHT OF WATER-FILLED PIPES SUPPORT BY TRAPEZE EXCEEDS 5 POUNDS PER LINEAL FOOT.
  - 3) TRAPEZE SPACING BY PIPE SIZE PER CPC 2016 SECTION 313.3  
 $1-1/2" \leq 6"-0"$  ON CENTER MAX /  $2" \leq 8"-0"$  ON CENTER MAX.
  - 4) FOR UN-INSULATED COPPER PIPE, USE FELT / PLASTIC LINED HANGERS AND SUPPORTS



(E) EQUIP. RM. PLUMBING DEMOLITION PLAN  
SCALE: 1/4" = 1'-0"

FILE NUMBER: 34-C3  
**IDENTIFICATION STAMP**  
 DIVISION OF THE STATE ARCHITECT  
 02- 116957  
 AC BM FLs MR ss PVL  
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- RECIRCULATION LOOP FOR DHW
- 1) SUPPLY AND INSTALL ONE (1) ACT D/MAND CONTROLS® MODEL #ER3-200 HOT WATER RECIRCULATION LOOP. INSTALL PUMP IN MECHANICAL ROOM ADJACENT TO WATER HEATER
  - 2) UNIT COMES WITH ONE GRUNDFOS MODEL #UP3 26-99-BFC PUMP.
    - 115 VOLTS, 18 AMPS, 191 WATTS AND 1/6 HP.
    - HEAD=24' AT FLOW=10 GPM.
  - 3) PROVIDE TWO (2) HARD WIRED OCCUPANCY SENSORS, AND ONE (1) HARD WIRED PUSH-BUTTON. INSTALL WHERE INDICATED ON MECHANICAL PLANS. BUTTON AND OCCUPANCY SENSORS ENERGIZE RECIRCULATION PUMP.
  - 4) INSULATE ENTIRE RECIRCULATION LOOP.
- EXPANSION TANK:  
 EXPANSION TANK SHALL BE WILKINS MODEL # WXT-18, OR EQUAL. TANK VOL.=4.15 GALLONS, MAX WORKING PRESS.=150PSIG.
- NOTE:  
 SEE SPACE HEATING HYDRONIC SCHEMATIC FOR MORE INFORMATION, SHEET M12



Revisions  
 10-2-2018 PLAN CHECK

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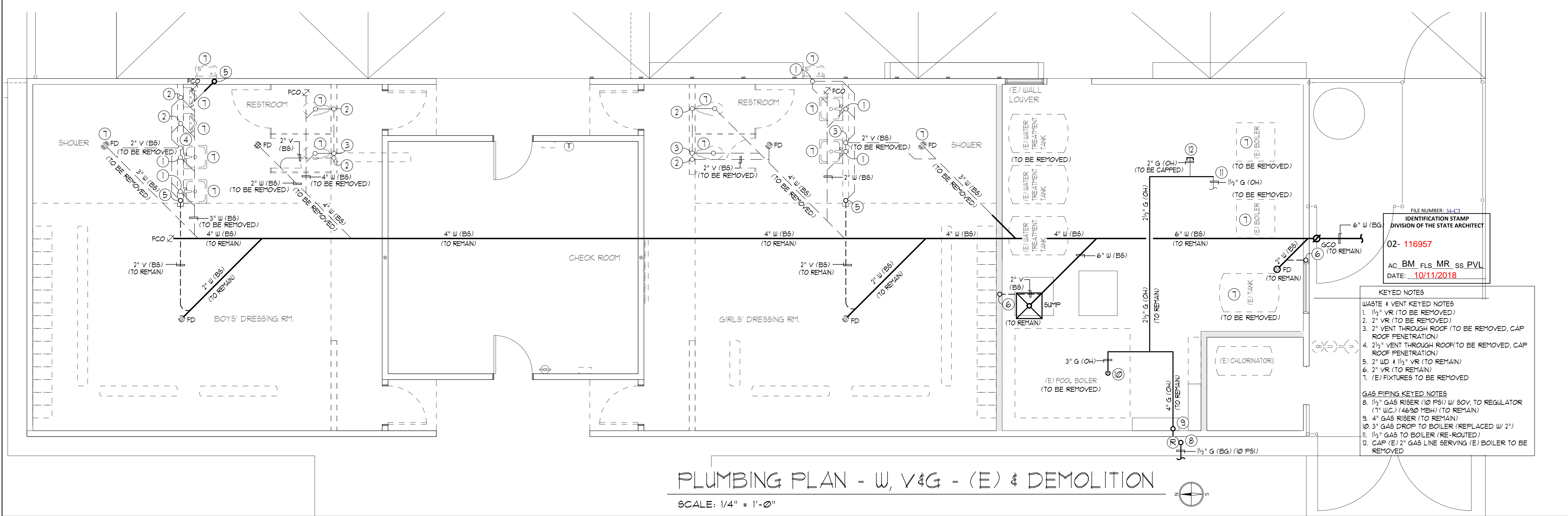
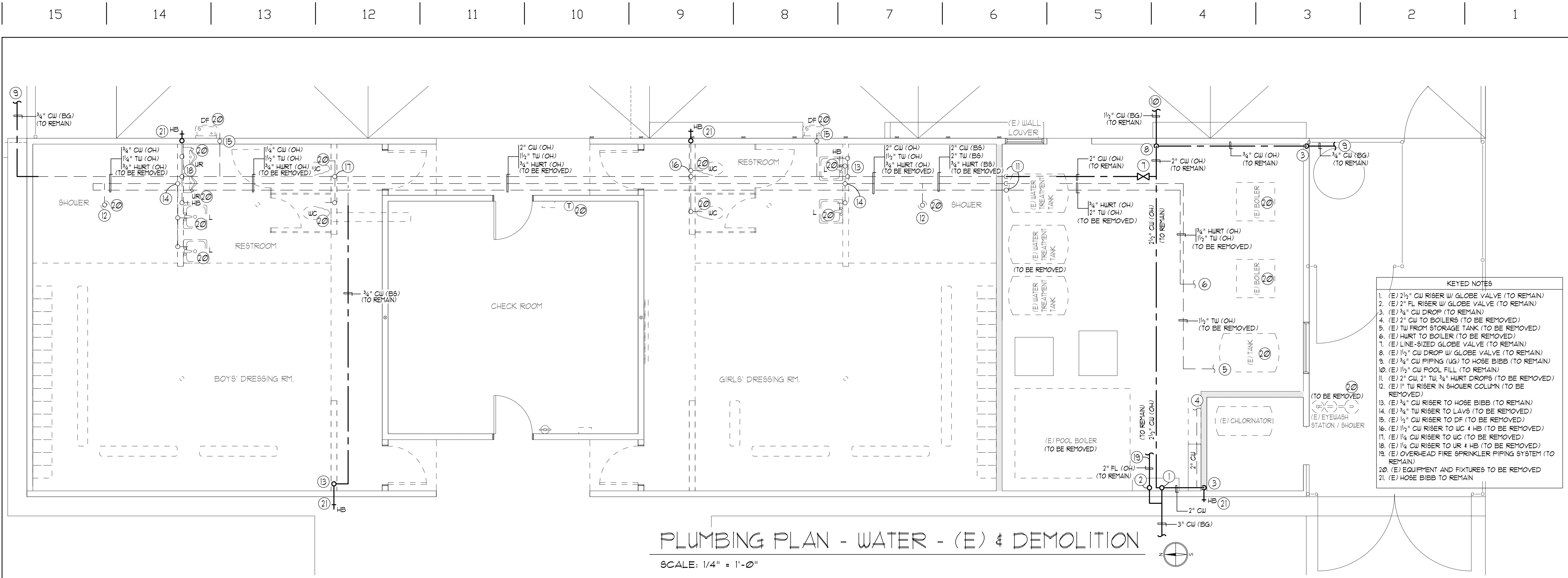
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**Pool Building Renovation**  
 for  
**NJUHS**  
 NEVADA UNION HIGH SCHOOL, GRASS VALLEY, CA

DATE: 7-25-2018  
 SCALE: 18-089

PLUMBING DETAILS

**P0.2**



Revisions  
 10-2-2018 PLAN CHECK



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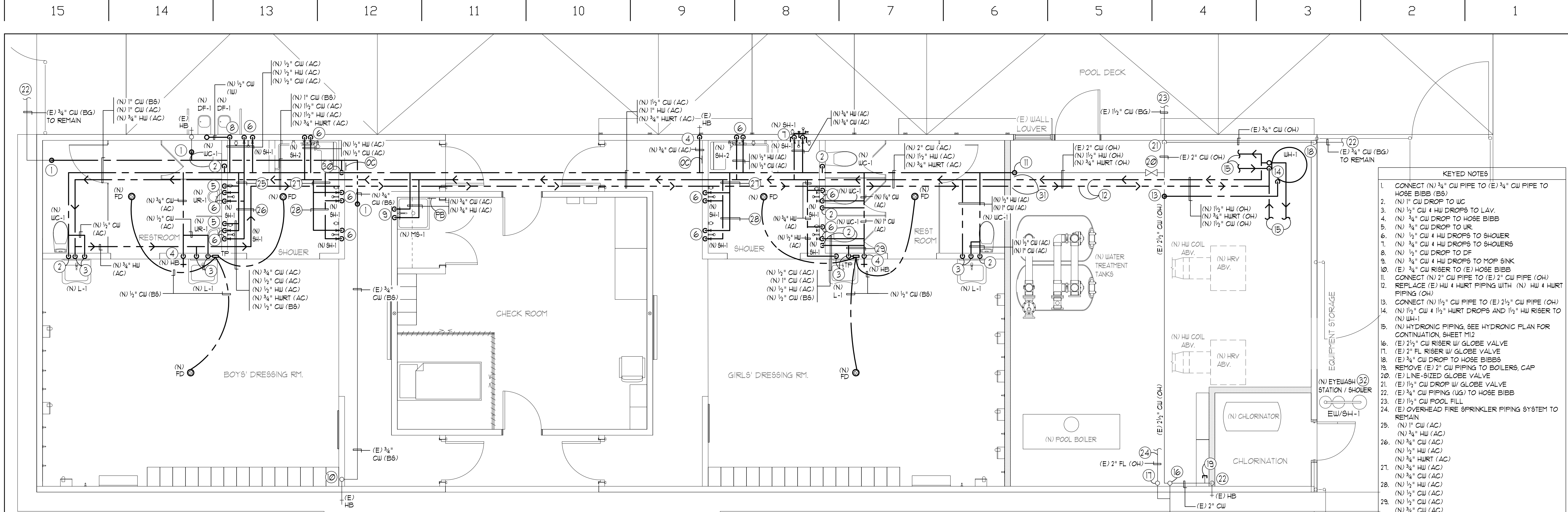
Pool Building Renovation  
 for  
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 NEVADA UNION HIGH SCHOOL, GRASS VALLEY, CA

7-25-2018

18-089

PLUMBING  
 DEMOLITION PLANS

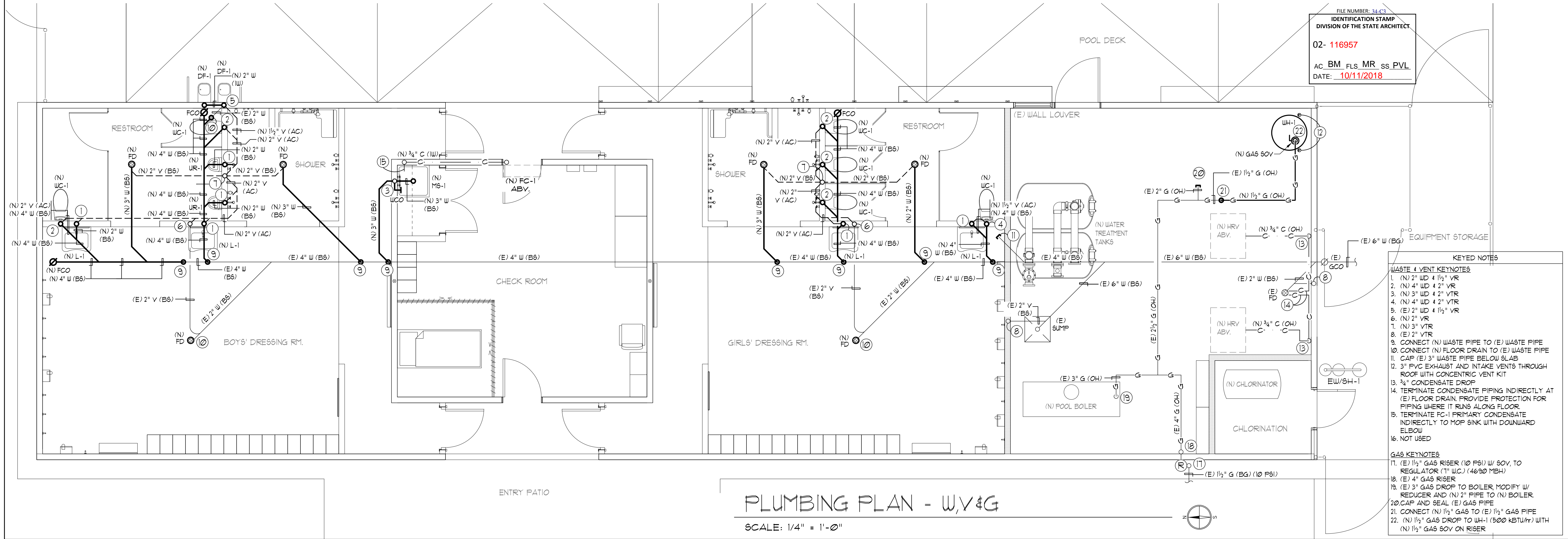
P1.1



**PLUMBING PLAN - WATER**

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

- KEYED NOTES**
- CONNECT (N) 3/4" CU PIPE TO (E) 3/4" CU PIPE TO HOSE BIBB (BS)
  - (N) 1" CU DROP TO LIC
  - (N) 1/2" CU 4 HU DROPS TO LAV.
  - (N) 3/4" CU DROP TO HOSE BIBB
  - (N) 3/4" CU DROP TO UR
  - (N) 1/2" CU 4 HU DROPS TO SHOWER
  - (N) 1/2" CU DROP TO DF
  - (N) 3/4" CU 4 HU DROPS TO MOP SINK
  - (E) 3/4" CU RISER TO (E) HOSE BIBB
  - CONNECT (N) 2" CU PIPE TO (E) 2" CU PIPE (OH)
  - REPLACE (E) HU 4 HURT PIPING WITH (N) HU 4 HURT PIPING (OH)
  - CONNECT (N) 1/2" CU PIPE TO (E) 2 1/2" CU PIPE (OH)
  - (N) 1/2" CU 4 1/2" HURT DROPS AND 1/2" HU RISER TO (N) W-1
  - (N) HYDRONIC PIPING, SEE HYDRONIC PLAN FOR CONTINUATION, SHEET M12
  - (E) 2 1/2" CU RISER W/ GLOBE VALVE
  - (E) 2" FL RISER W/ GLOBE VALVE
  - (E) 3/4" CU DROP TO HOSE BIBBS
  - REMOVE (E) 2" CU PIPING TO BOILERS, CAP
  - (E) LINE-SIZED GLOBE VALVE
  - (E) 1 1/2" CU DROP W/ GLOBE VALVE
  - (E) 3/4" CU PIPING (UG) TO HOSE BIBB
  - (E) 1/2" CU COOL FILL
  - (E) OVER-HEAD FIRE SPRINKLER PIPING SYSTEM TO REMAIN
  - (N) 1" CU (AC)
  - (N) 3/4" HU (AC)
  - (N) 3/4" CU (AC)
  - (N) 1/2" HU (AC)
  - (N) 3/4" HU (AC)
  - (N) 1/2" CU (AC)
  - (N) 1/2" CU (AC)
  - (N) 3/4" CU (AC)
  - (N) 1" CU DROP IN WALL TO (N) CU PIPE (BS)
  - REMOVE (E) WATER DROPS AND CAP PIPING AT SLAB
  - REMOVE (E) EMERGENCY EYE WASH STATION / SHOWER, REPLACE WITH (N) FIXTURE, RECONNECT TO (E) PLUMBING



**PLUMBING PLAN - W,V & G**

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

- KEYED NOTES**
- WASTE & VENT KEYNOTES**
- (N) 2" UD 4 1/2" VR
  - (N) 4" UD 4 2" VR
  - (N) 3" UD 4 2" VTR
  - (N) 4" UD 4 2" VTR
  - (E) 2" UD 4 1/2" VR
  - (N) 2" VR
  - (N) 3" VTR
  - (E) 2" VTR
  - CONNECT (N) WASTE PIPE TO (E) WASTE PIPE
  - CONNECT (N) FLOOR DRAIN TO (E) WASTE PIPE
  - CAP (E) 3" WASTE PIPE BELOW SLAB
  - 3" PVC EXHAUST AND INTAKE VENTS THROUGH ROOF WITH CONCENTRIC VENT KIT
  - 3/4" CONDENSATE DROP
  - TERMINATE CONDENSATE PIPING INDIRECTLY AT (E) FLOOR DRAIN, PROVIDE PROTECTION FOR PIPING WHERE IT RUNS ALONG FLOOR
  - TERMINATE FC-1 PRIMARY CONDENSATE INDIRECTLY TO MOP SINK WITH DOWNWARD ELBOW
  - NOT USED
- GAS KEYNOTES**
- (E) 1/2" GAS RISER (10 PSI) W/ SOV, TO REGULATOR (1" UC) (4690 MEH)
  - (E) 4" GAS RISER
  - (E) 3" GAS DROP TO BOILER, MODIFY W/ REDUCER AND (N) 2" PIPE TO (N) BOILER
  - CAP AND SEAL (E) GAS PIPE
  - CONNECT (N) 1/2" GAS TO (E) 1/2" GAS PIPE
  - (N) 1/2" GAS DROP TO W-1 (500 KBTU/hr) WITH (N) 1/2" GAS SOV ON RISER



**Revisions**  
 10-2-2018 PLAN CHECK

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**Pool Building Renovation**  
 for  
**NJUHSD**  
 NEVADA UNION HIGH SCHOOL, GRASS VALLEY, CA

7-25-2018

18-089

PLUMBING PLANS

**P1.2**

### ABBREVIATIONS

ADJ Adjustable	G Grooved
AFF Above Finished Floor	GA Gauge
AHJ Authority Having Jurisdiction	GALV Galvanized
ANSI American National Standards Institute	GB Glass Bulb
AS Automatic Sprinklers	GOE Groove One End
ASME American Society of Mechanical Engineers	GOL Groove-O-Let
ASR Automatic Sprinkler Riser	GPM Gallons Per Minute
ASTM American Society for Testing and Materials	GRC Grooved Reducing Coupling
ATR All Thread Rod	GV Gate Valve
AUX Auxiliary	HDI Hilti Drop-In Anchor
AV Alarm Valve	HSW Horizontal Sidewall
AWS American Welding Society	HT Height
BB Below Beam	HV Hose Valve
BD Below Deck	ID Inside Diameter
BFP Backflow Preventor	MECH Mechanical
BFV Butterfly Valve	MJ Mechanical Joint
BJ Below Joist	MRA Most Remote Area
BL Branchline	MT Mechanical Tee
BLDG Building	NFPA National Fire Protection Association
BOR Base Of Riser	NIC Not In Contract
BR Brass	NO Number
CH Chrome	NPT National Pipe Thread
CI Cast Iron	NTS Not To Scale
CL Centerline	OC On Center
COJ Cut On Job	OD Outside Diameter
COL Column	OH Ordinary Hazard
CONC Concrete	OS&Y Outside Screw & Yoke
COUP Coupling	P Plain End
CPVC Chlorinated Polyvinyl Chloride	PIV Post Indicator Valve
CSP Combination Standpipe	PL Property Line
CSR Coach Screw Rod	POC Point Of Connection
CTR Center	PRV Pressure Regulating Valve
CV Check Valve	PS Pressure Switch
DCV Detector Check Valve	PSI Pounds Per Square Inch
DI Ductile Iron	PVC Polyvinyl Chloride
DN Down	QR Quick Response
DSP Dry Standpipe	RES Residential
E Existing	RN Riser Nipple
EC Extended Coverage	SBB Side Beam Bracket
ELEV Elevation	SCH Schedule
ELL Elbow Fitting	SHT Sheet
EQB Earthquake Brace	SP Standpipe
EXP Exposed	SPK Sprinkler
F Flanged	SQ Square
FDC Fire Department Connection	SR Standard Response
FH Fire Hydrant	SSP Standard Spray Pendant
FHC Fire Hose Cabinet	SSU Standard Spray Upright
FHV Fire Hose Valve	SW Switch
FLR Floor	T Thread
FM Factory Mutual Research	TEE Tee Fitting
FOW Face Of Wall	TLW Threaded Lightwall
FP Fire Protection	TOE Thread One End
FS Flow Switch	TOR Top Of Riser
FT Foot	TW Thinwall
FTO Field To Order	TYP Typical

### SYMBOL LEGEND

	Upright Sprinkler - Existing
	Upright Sprinkler on Line (K=5.6) See Detail 1/FP101
	Sprinkler Branchline - Existing
	Sprinkler Main - Existing
	Sprinkler Branchline
	Sprinkler Main
	Sprinkler Piping to be Demo'd
	Change in Pipe Elevation
	System Riser
	Grooved Coupling
	Auxiliary Drain See Detail 2/FP101
	Grooved Cap
	Threaded Cap
	Plug
	2 Way/4 Way Earthquake Brace See Details Sheet FP-103
	Hanger Location See Details Sheet FP102
	Branchline Restraint See Details Sheet FP102

### GENERAL NOTES

- The system design and installation shall comply with NFPA 13, 2016 and requirements of DSA.
- Hazard classification: - Ordinary Hazard I - Mechanical Room
- Provide spare sprinkler head cabinet near system riser, provide sprinklers and wrench required.
- All threaded pipe shall be: Schedule 40 or equal
- All grooved pipe shall be: Schedule 10 or Equal
- Fittings shall be class 125 threaded cast iron ASME B16.4.
- All threaded pipe and fittings shall have threads cut to ASME standard B1.20.1
- All pipe welding shall be in compliance with the requirements of AWS B2.1.
- All piping shall be earthquake braced as outlined in NFPA 13 2016.
- All piping is to be hydrostatically tested at 200 psi minimum, for a period not less than two hours.
- Any heads subject to mechanical damage shall be installed with head guard
- Installing fire protection contractor is responsible for all coordination with structure, building, mechanical, electrical, plumbing, and all utilities. Any additional fittings, piping, offsets, hangers, labor, and design changes that may be required are to be provided at no additional cost to owner.
- Provide signs for all control, drain, test connection valves, and the fire department connection.
- Prior to bid, visit the job site, take measurements and other such information. Compare this with the drawings and specifications as to the conditions under which the work is to be performed. No allowance shall be subsequently made for extra expenses due to failure or neglect to make such an examination.
- Installing contractor is responsible for all coring and associated scanning and/or xray of existing concrete walls, floors, etc. If required. Prior to any coring installing contractor shall obtain approval from project management. Provide required clearance around all penetrations per NFPA 13 paragraph 9.3.4.
- Pipe lengths shown on plan are center to center and are for reference only. Actual pipe lengths may vary.
- Provide auxiliary drains as required per NFPA 13, 2016.
- All penetrations through fire rated assemblies shall be sealed in accordance with a UL approved system to maintain the integrity of fire rated assembly.
- The installing contractor is responsible for creating shop drawings for installation purposes. The installing contractor shall coordinate fire sprinkler shop drawings with other trades shop drawings. Any additional fittings, pipe, sprinklers, design, etc that maybe required will be the responsibility of the sprinkler contractor and will be provided at no additional cost to the owner. Upon completion of shop drawings and coordination the fire sprinkler contractor will verify that the hydraulic calculations have not been adversely impacted by any design and/or coordination changes. If it is found that further modifications are required based on the results of the hydraulic calculations these modifications are to be done at no additional cost to the owner.
- All welding to be in accordance with NFPA 13, Sec. 6.5.2. and welding certificate shall be provided to the project inspector.
- Provide metal chrome split ring wall plates at all visible wall penetrations
- Demolish existing system (9 total sprinklers) to accommodate new equipment - Install new system (9 sprinklers total). New pipe sizes to match existing no new hydraulic calculations required.

### APPLICABLE CODES AND STANDARDS

TITLE 19	State Fire Marshal - Public Safety
TITLE 24	California Building and Fire Code (Parts 1-9 Inclusive)
NFPA 13 (2016 ed.)	Installation of Fire Sprinkler Systems
NFPA 14 (2013 ed.)	Standard for the Installation of Private Fire Services
NFPA 25 (2013 ed.)	Inspection, Testing, and Maintenance of Water-Based Fire Protection Systems (with California Amendments)

### SPRINKLER LEGEND

ADJUST SPRINKLER TEMPERATURES AS REQUIRED PER NFPA 13, 2016 PARAGRAPH 8.3.2

SYMBOL	MODEL	S.I.N.	K-FACT	ORIFICE	N.P.T.	FINISH	TEMP.	RESPONSE TYPE	TOTALS	COMMENTS
○	VIKING UPRIGHT	VK300	5.6	1/2"	1/2"	BRS	200°	QUICK	9	①
SPRINKLER TOTALS:									9	

COMMENTS  
① SEE DETAIL 1/FP101

### SHEET INDEX

Sheet Number	Description
FP100	Title Sheet, Notes, Legends, Abbreviations
FP101	Miscellaneous Details
FP102	Hanger Details
FP103	Sway Brace Details
FP104	Piping Plans

FILE NUMBER: 34-C1  
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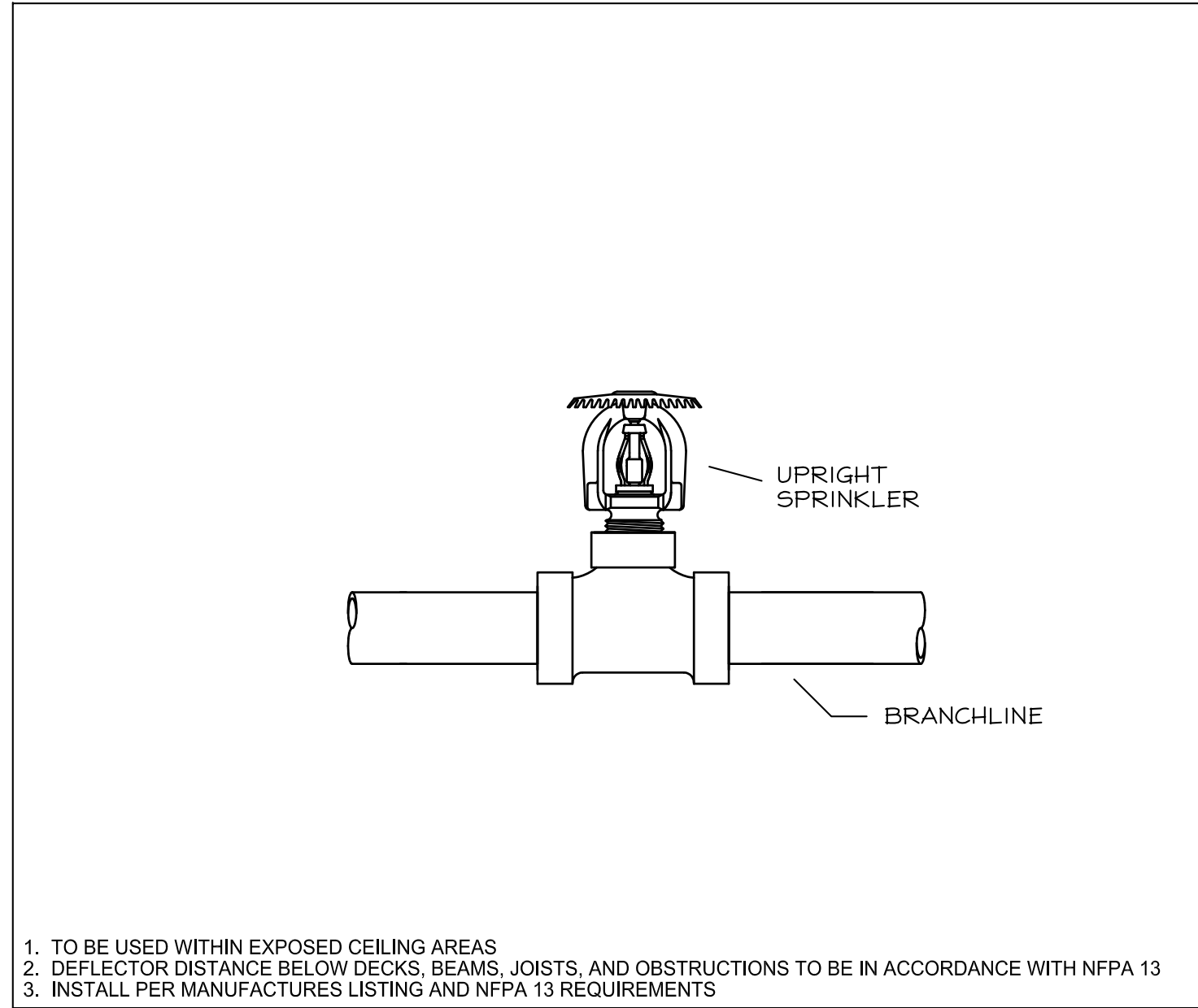
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POOL BUILDING RENOVATION  
for  
NEVADA JOINT UNION HIGH SCHOOL DISTRICT  
NEVADA JOINT UNION HIGH SCHOOL, GRASS VALLEY, CA

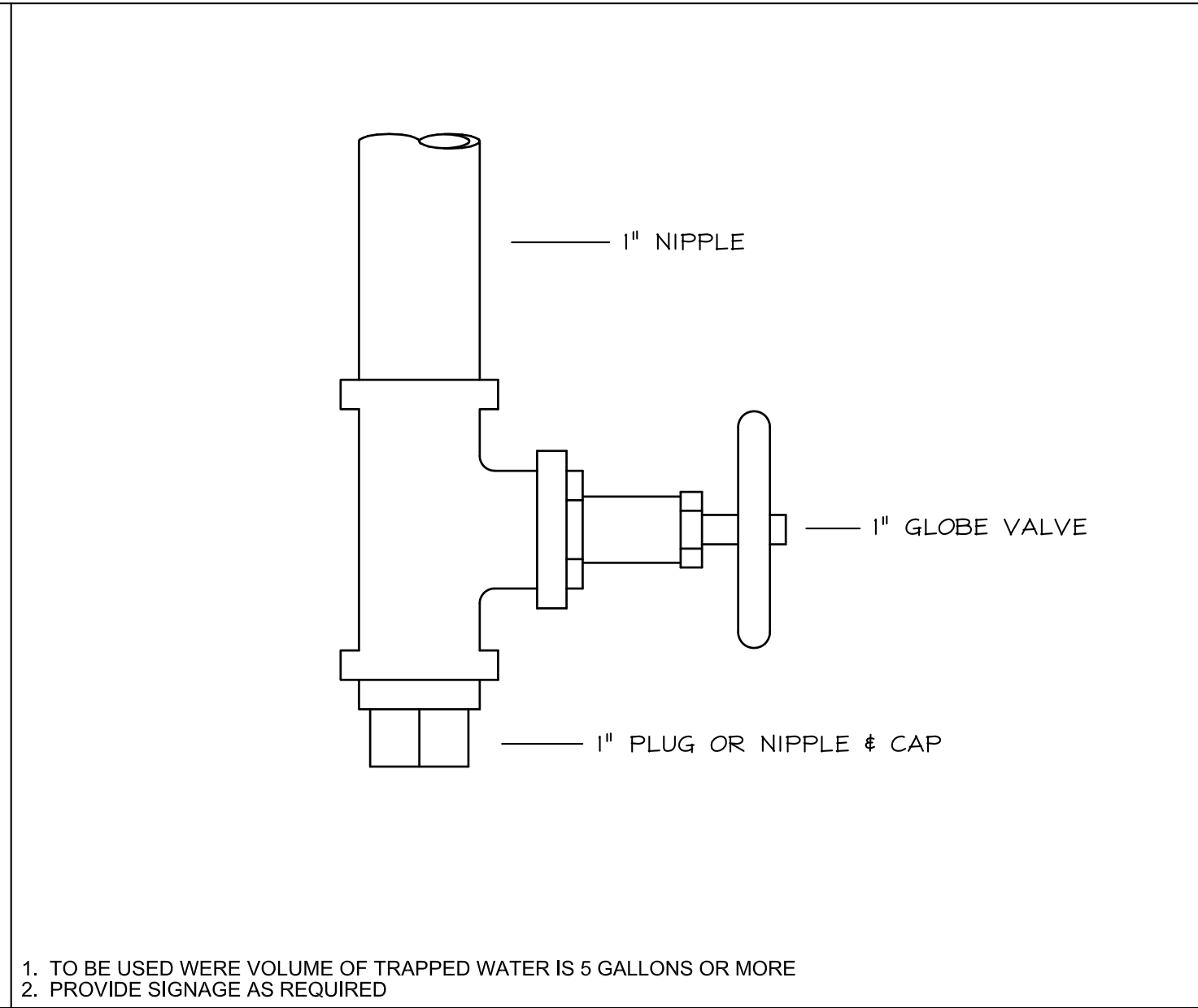
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job #: 17-429

FIRE PROTECTION  
PLAN  
TITLE SHEET  
FP100



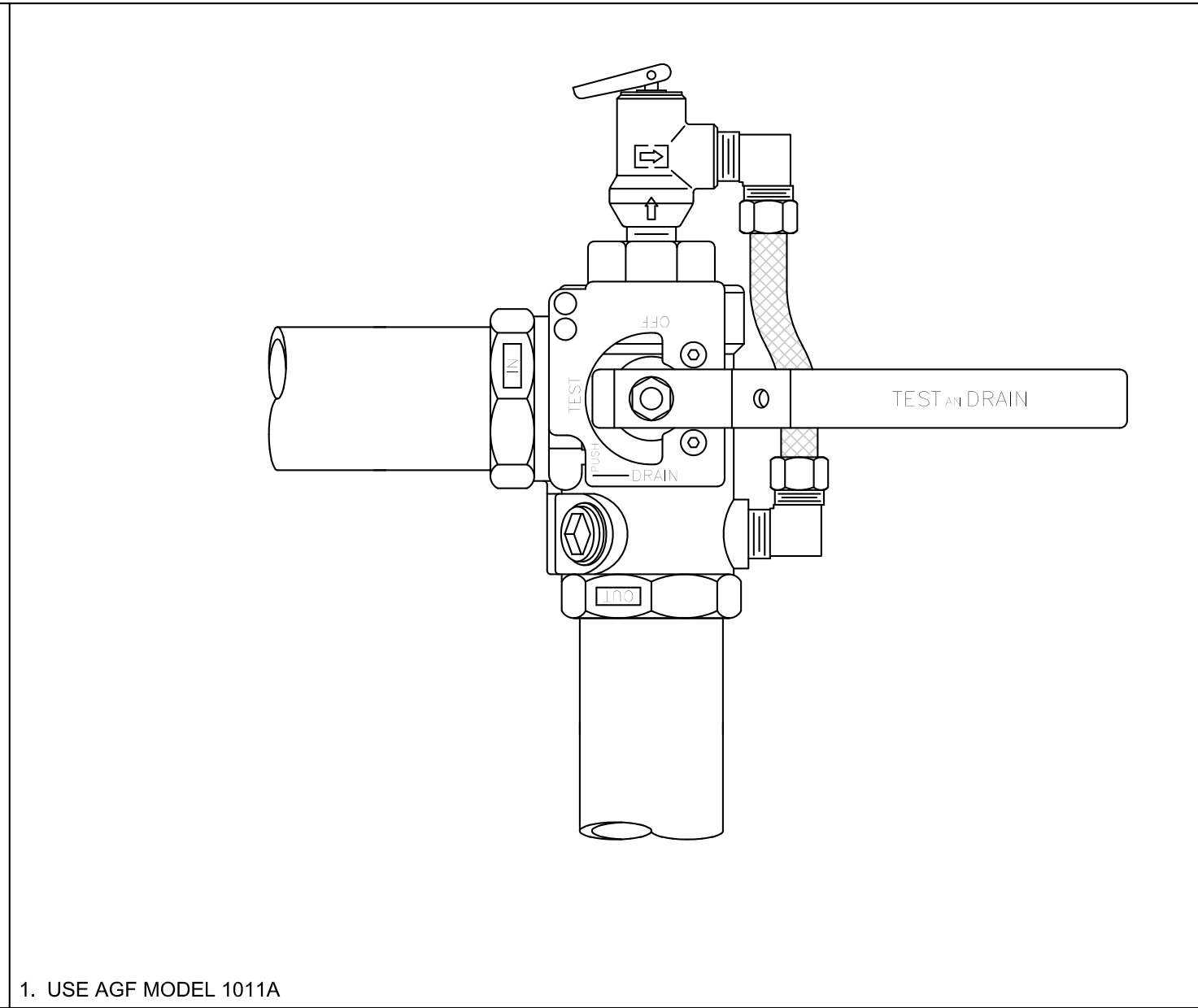
**1 UPRIGHT SPRINKLER ON BRANCHLINE**

1. TO BE USED WITHIN EXPOSED CEILING AREAS  
 2. DEFLECTOR DISTANCE BELOW DECKS, BEAMS, JOISTS, AND OBSTRUCTIONS TO BE IN ACCORDANCE WITH NFPA 13  
 3. INSTALL PER MANUFACTURERS LISTING AND NFPA 13 REQUIREMENTS



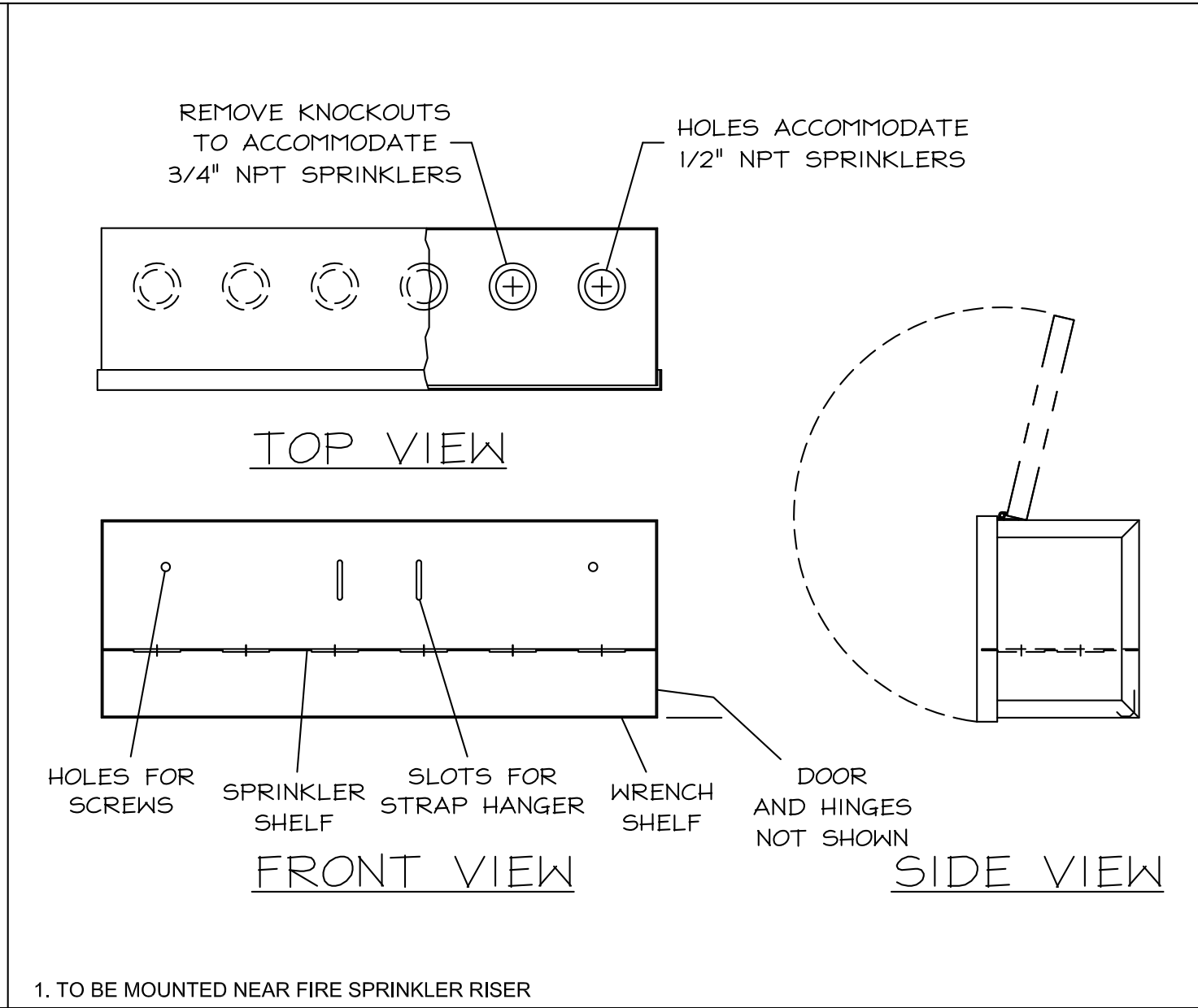
**2 AUXILIARY DRAIN**

1. TO BE USED WHERE VOLUME OF TRAPPED WATER IS 5 GALLONS OR MORE  
 2. PROVIDE SIGNAGE AS REQUIRED



**3 AGF TEST & DRAIN W/ PRESSURE RELIEF**

1. USE AGF MODEL 1011A



**4 SPARE HEAD BOX (6 HEAD REQ'D)**

1. TO BE MOUNTED NEAR FIRE SPRINKLER RISER

**5**

**6**

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**9**

**10**

**11**

**12**

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 for  
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 NEVADA JOINT UNION HIGH SCHOOL, GRASS VALLEY, CA

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 job #: 17-429

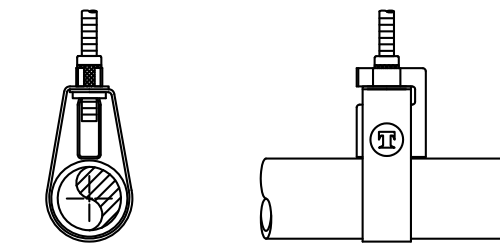
**FIRE PROTECTION PLAN**  
**MISC. DETAILS**  
**FP101**

MAXIMUM DISTANCE BETWEEN HANGERS								
NOMINAL PIPE SIZE (in.)	1"	1-1/4"	1-1/2"	2"	2-1/2"	3"	3-1/2"	4"
STEEL PIPE (ft-in)	12-0	12-0	15-0	15-0	15-0	15-0	15-0	15-0
THREADABLE THINWALL (ft-in)	12-0	12-0	12-0	12-0	12-0	12-0	N/A	N/A

HANGER ROD SIZES								
NOMINAL PIPE SIZE (in.)	1"	1-1/4"	1-1/2"	2"	2-1/2"	3"	3-1/2"	4"
STEEL PIPE	3/8"	3/8"	3/8"	3/8"	3/8"	3/8"	3/8"	3/8"

BRANCHLINE RESTRAINT SPACING					
NOMINAL PIPE SIZE (in.)	3/4"	1"	1-1/4"	1-1/2"	2"
STEEL PIPE (ft-in)	N/A	43-0	46-0	49-0	53-0

TOLCO FIG. 25 SURGE RESTRAINER  
 TYPE 1 - FOR 1" AND 1-1/4" PIPE AND HANGER  
 TYPE 2 - FOR 1-1/2" AND 2" PIPE AND HANGER



TOLCO FIG. 25 IS DESIGNED TO BE USED ONLY WITH TOLCO BAND HANGERS FIG. 200 AND 2NFPA TO RESTRAIN THE UPWARD MOVEMENT OF PIPE AS IT OCCURS DURING SPRINKLER HEAD ACTIVATION OR SEISMIC ACTIVITY

FIGURE 25 SURGE RESTRAINER FOR STEEL OR CPVC PLASTIC PIPE

1. REFERENCE NFPA 13 (2016) TABLE 9.2.2.1(a)

1. REFERENCE NFPA 13 (2016) TABLE 9.1.2.1

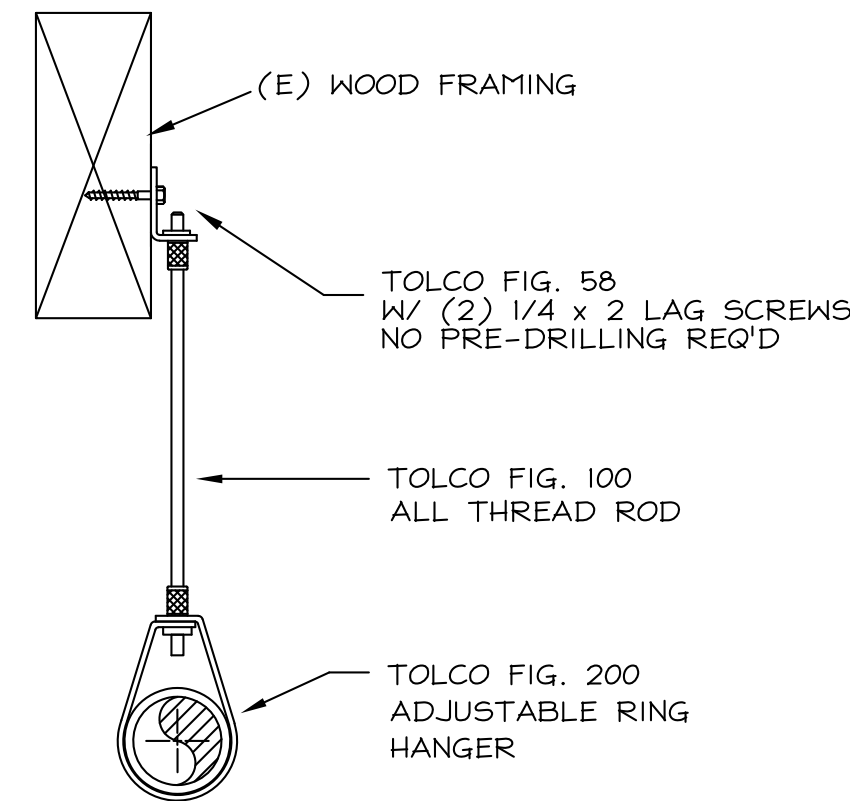
2. SEE 1/FP103 FOR SEISMIC DESIGN CRITERIA  
 1. REFERENCE NFPA 13 (2016) TABLE 9.3.6.4(a) (Cp = 0.42)

**1 HANGER SPACING TABLE**

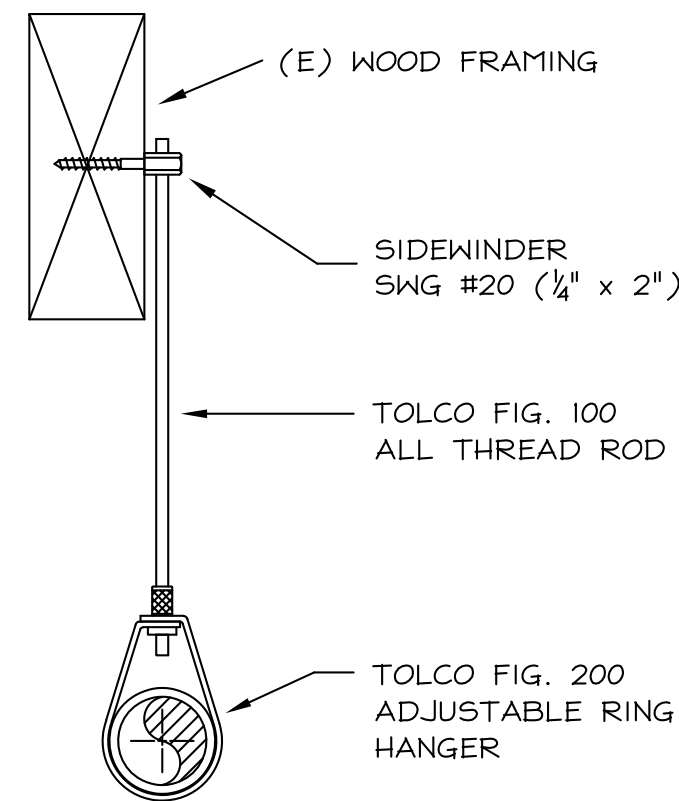
**2 HANGER ROD SIZE TABLE**

**3 BRANCHLINE RESTRAINT SPACING TABLE**

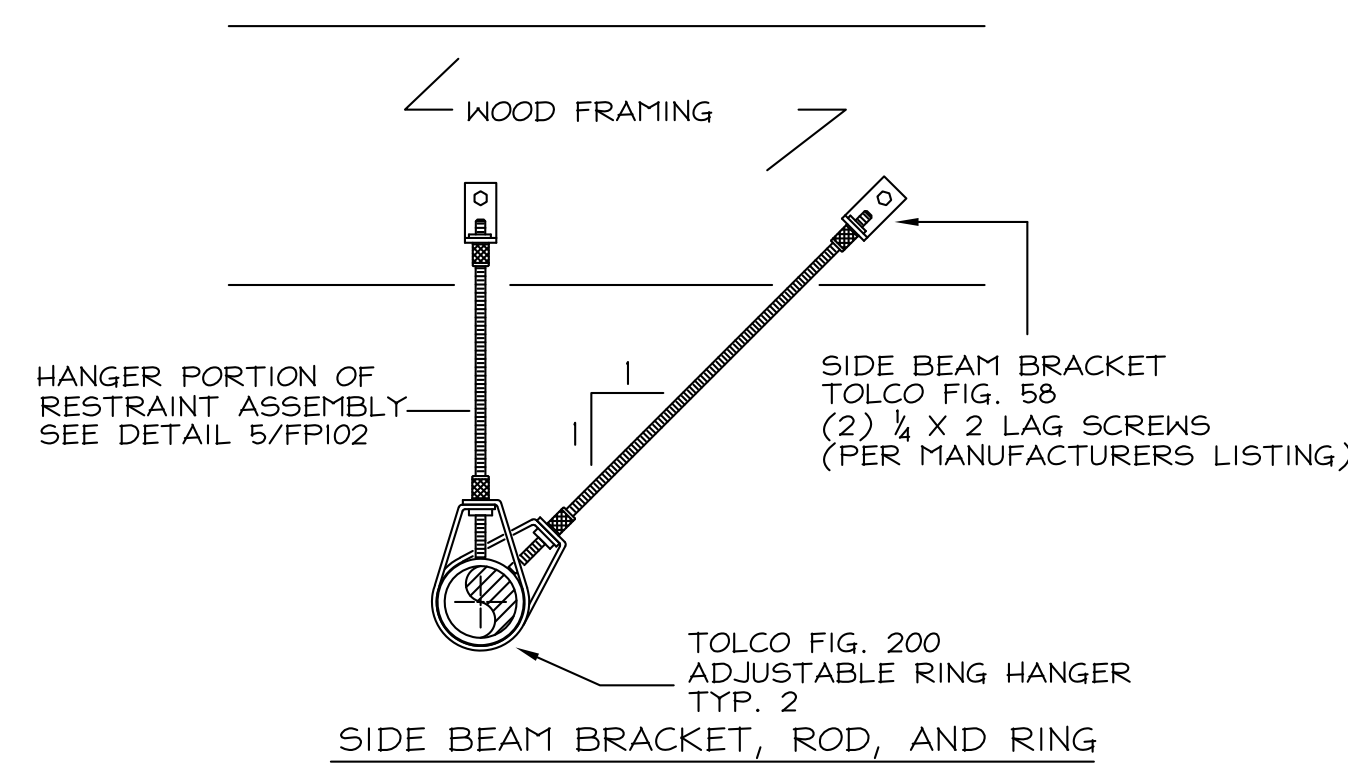
**4 TOLCO FIG. 25 SURGE RESTRAINER**



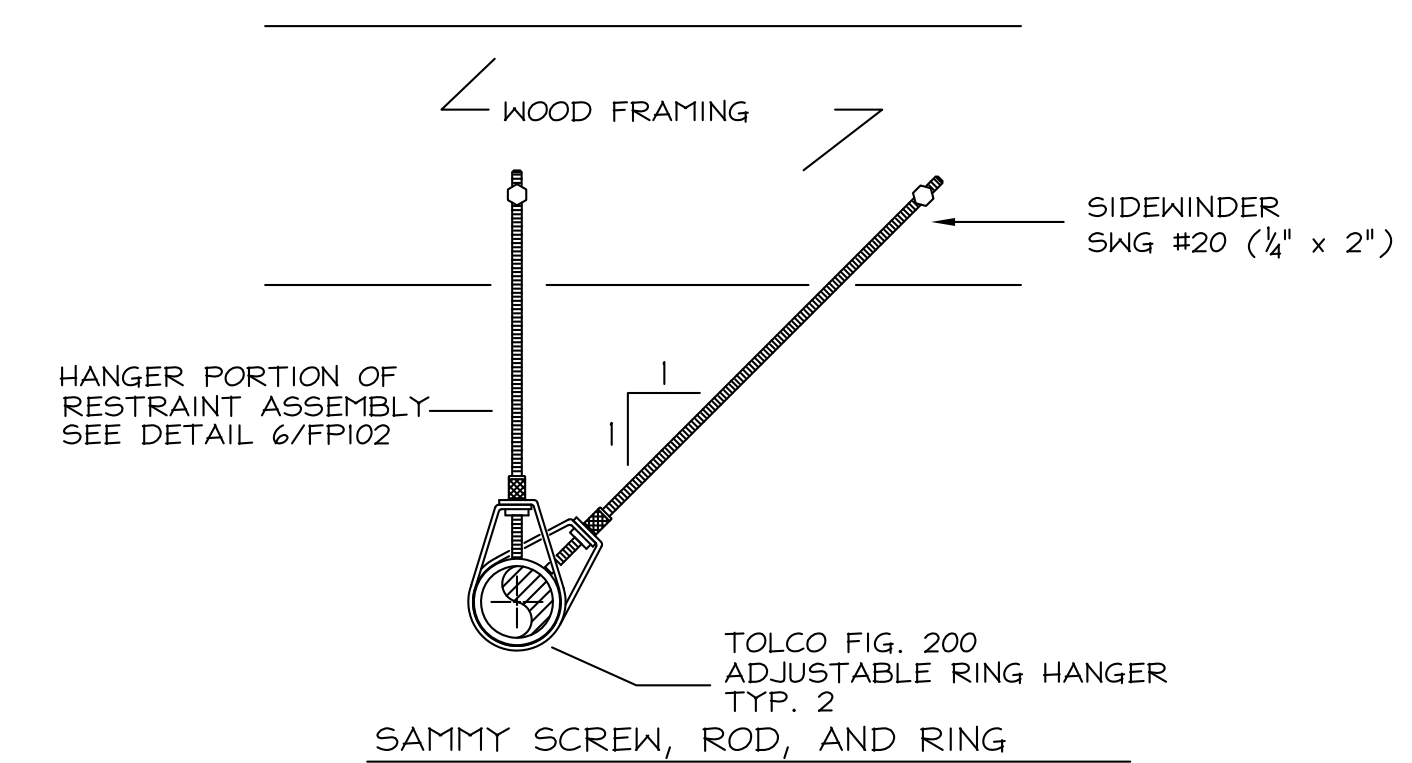
SIDE BEAM BRACKET, ROD, AND RING (4" MAX. PIPE DIA.)



SIDEWINDER, ROD, AND RING (2" MAX. PIPE DIA.)



3. BRANCHLINE RESTRAINT TO BE INSTALLED MAX. 6" FROM HANGER PORTION OF RESTRAINT  
 2. BRANCHLINE RESTRAINTS ARE NOT REQUIRED WHEN HANGER LENGTH ARE LESS THAN 6" IN. MEASURED FROM THE TOP OF PIPE TO POINT OF ATTACHMENT PER NFPA 13:2016 PARAGRAPH 9.3.6.5  
 1. SEE 3/FP102 FOR MAXIMUM SPACING OF BRANCHLINE RESTRAINTS



3. BRANCHLINE RESTRAINT TO BE INSTALLED MAX. 6" FROM HANGER PORTION OF RESTRAINT  
 2. BRANCHLINE RESTRAINTS ARE NOT REQUIRED WHEN HANGER LENGTH ARE LESS THAN 6" IN. MEASURED FROM THE TOP OF PIPE TO POINT OF ATTACHMENT PER NFPA 13:2016 PARAGRAPH 9.3.6.5  
 1. SEE 3/FP102 FOR MAXIMUM SPACING OF BRANCHLINE RESTRAINTS

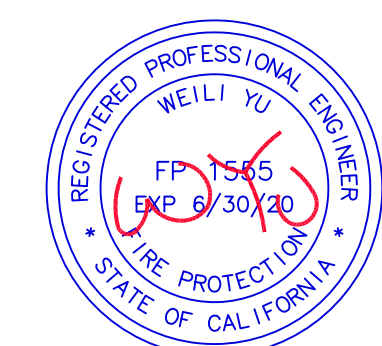
**5 HANGER DETAIL**

**6 HANGER DETAIL**

**7 BRANCHLINE RESTRAINT**

**8 BRANCHLINE RESTRAINT**

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 for  
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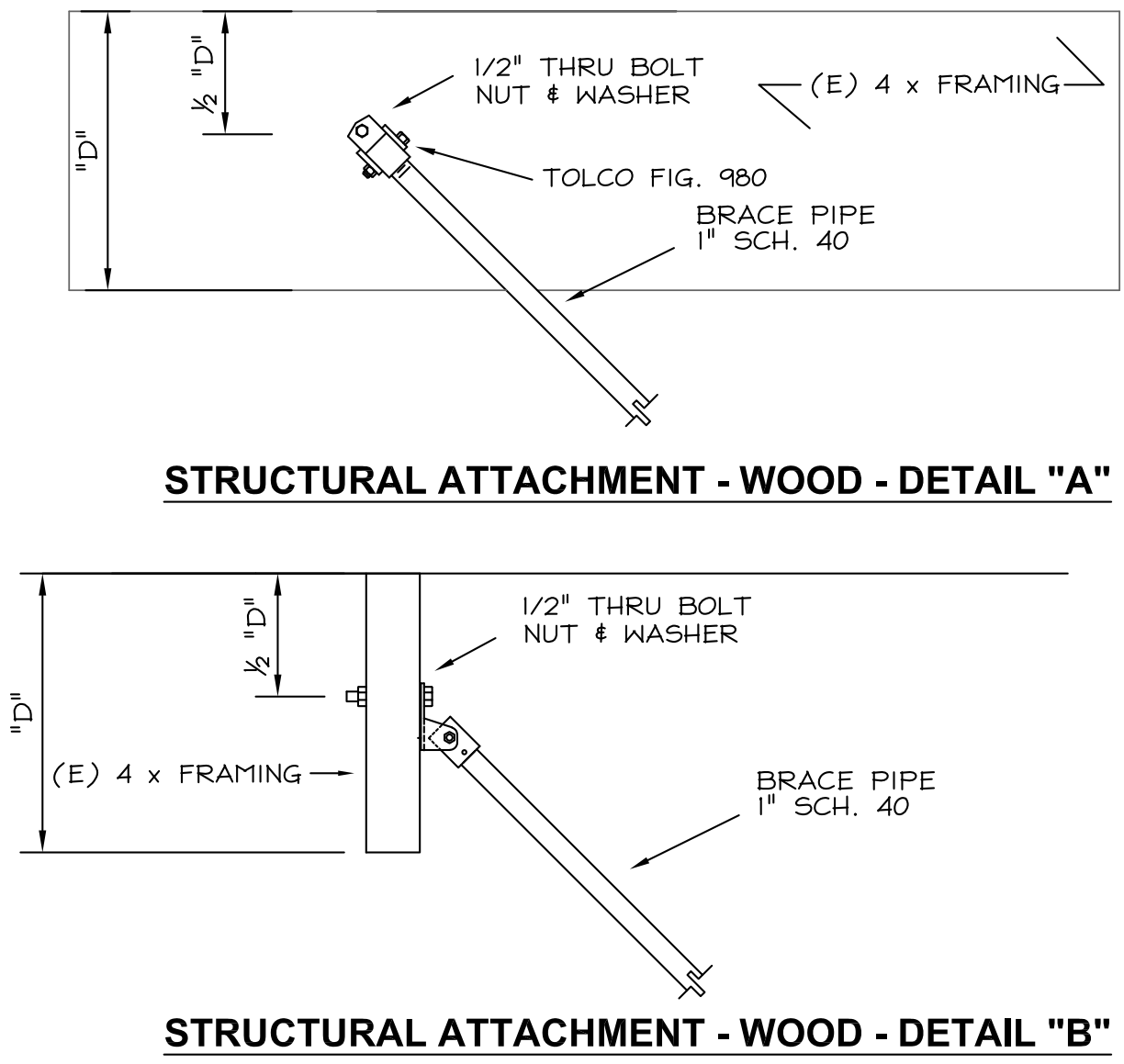
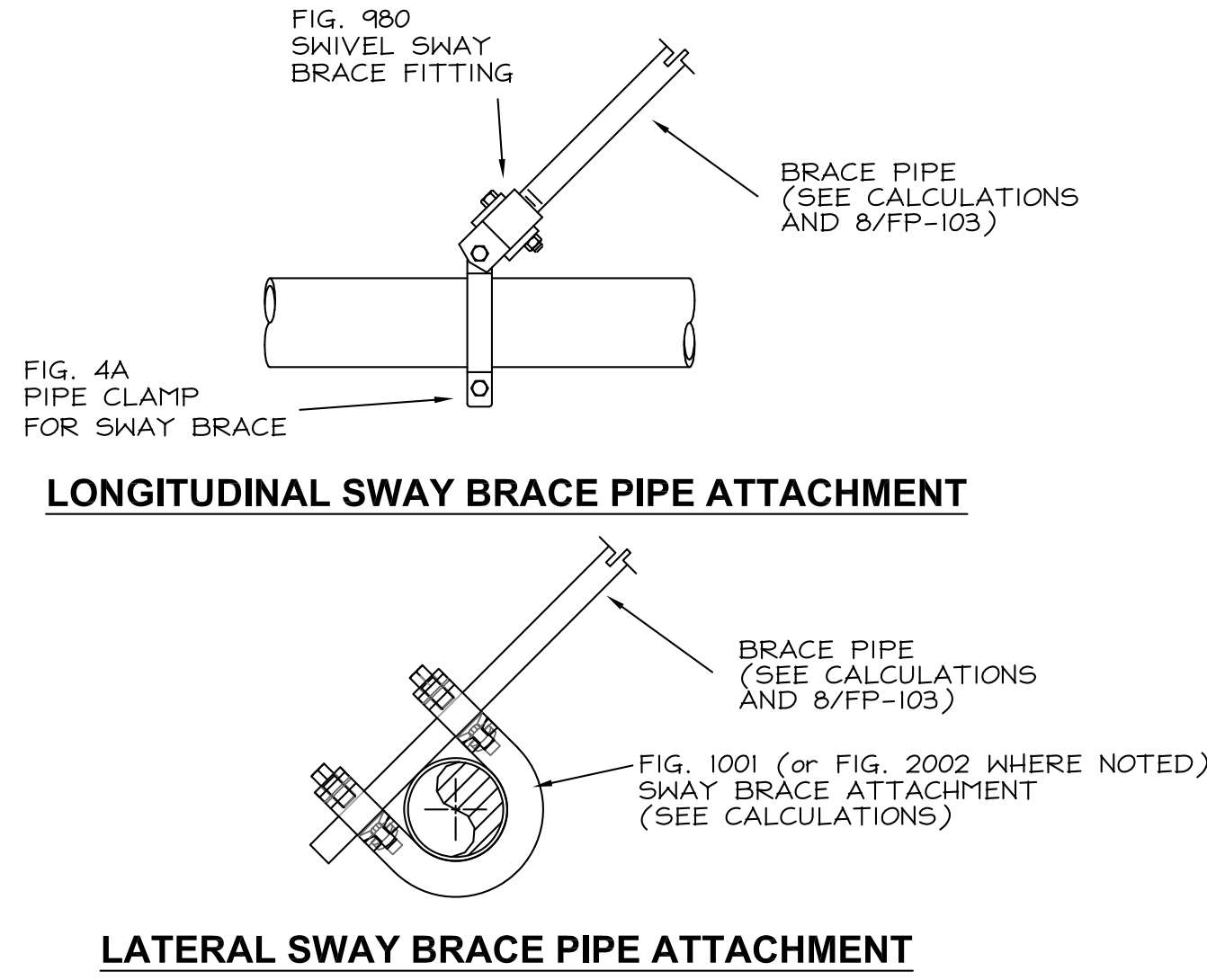
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 job #: 17-429

FIRE PROTECTION PLAN  
 HANGER DETAILS  
**FP102**



11761 RIDGE ROAD, GRASS VALLEY, CA

**LATITUDE: 39.241508**  
**LONGITUDE: -121.054539**  
**NFPA 13 DESIGN FORCE = .42 Cp**  
**INFORMATION OBTAINED FROM**  
**HTTP://EARTHQUAKE.USGS.GOV**



Brace Information		Tolco Brace Components	
Maximum Spacing = 20'-0"	Length of Brace = 7'-0"	Fig.1001 Sway Brace Clamp = 1425 lbs Fig.980 Universal Swivel = 1425 lbs	
Bracing Material = 1" Sch. 40 Angle from Vertical = 45° MIN. Least Radius of Gyration = .42" L/R Value = 200 Maximum Horizontal Load = 1310 lbs Force Factor (Cp) = .42		Calculation based on CONCENTRIC Loading	
Fastener Information		Brace Identification	←→
Fastener Orientation = NFPA Type E Type of Fastener = Thru Bolt Diameter of Fastener = 1/2" Length of Fastener = 3 1/2" Maximum Load = 350 lbs		Orientation of Brace	Lateral
		<b>Assembly Details</b>	
		Pipe Attachment	See 2/FP103
		Structural Attachment	See 3/FP103
<b>Load Information</b>			
Size, Type, and Length of Pipe with Assigned Load			
2" Sch. 10 Steel Pipe	20 Ft.	35 lbs.	
1 1/2" Sch. 40 Steel Pipe	2 Ft.	3 lbs.	
1 1/4" Sch. 40 Steel Pipe	6 Ft.	7 lbs.	
1" Sch. 40 Steel Pipe	33 Ft.	28 lbs.	
Percentage added for Fittings and Sprinklers		15%	11 lbs.
Total Assigned Load of all Pipe within Zone Of Influence		85 lbs.	

**1 SEISMIC DESIGN INFORMATION**

**2 PIPE ATTACHMENT**

**3 STRUCTURAL ATTACHMENT - WOOD**

**4 SWAY BRACING CALCULATION - LATERAL**

Brace Information		Tolco Brace Components	
Maximum Spacing = 20'-0"	Length of Brace = 7'-0"	Fig.4L Sway Brace Clamp = 1425 lbs Fig.980 Universal Swivel = 1425 lbs	
Bracing Material = 1" Sch. 40 Angle from Vertical = 45° MIN. Least Radius of Gyration = .42" L/R Value = 200 Maximum Horizontal Load = 1310 lbs Force Factor (Cp) = .42		Calculation based on CONCENTRIC Loading	
Fastener Information		Brace Identification	←→
Fastener Orientation = NFPA Type H Type of Fastener = Thru Bolt Diameter of Fastener = 1/2" Length of Fastener = 3 1/2" Maximum Load = 330 lbs		Orientation of Brace	Longitudinal
		<b>Assembly Details</b>	
		Pipe Attachment	See 2/FP103
		Structural Attachment	See 3/FP103
<b>Load Information</b>			
Size, Type, and Length of Pipe with Assigned Load			
2" Sch. 10 Pipe	20 Ft.	35 lbs.	
Percentage added for Fittings and Sprinklers		15%	5 lbs.
Total Assigned Load of all Pipe within Zone Of Influence		41 lbs.	

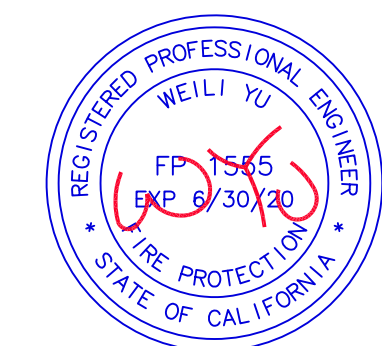
**5 SWAY BRACING CALCULATION - LONGITUDINAL**

**6**

**7**

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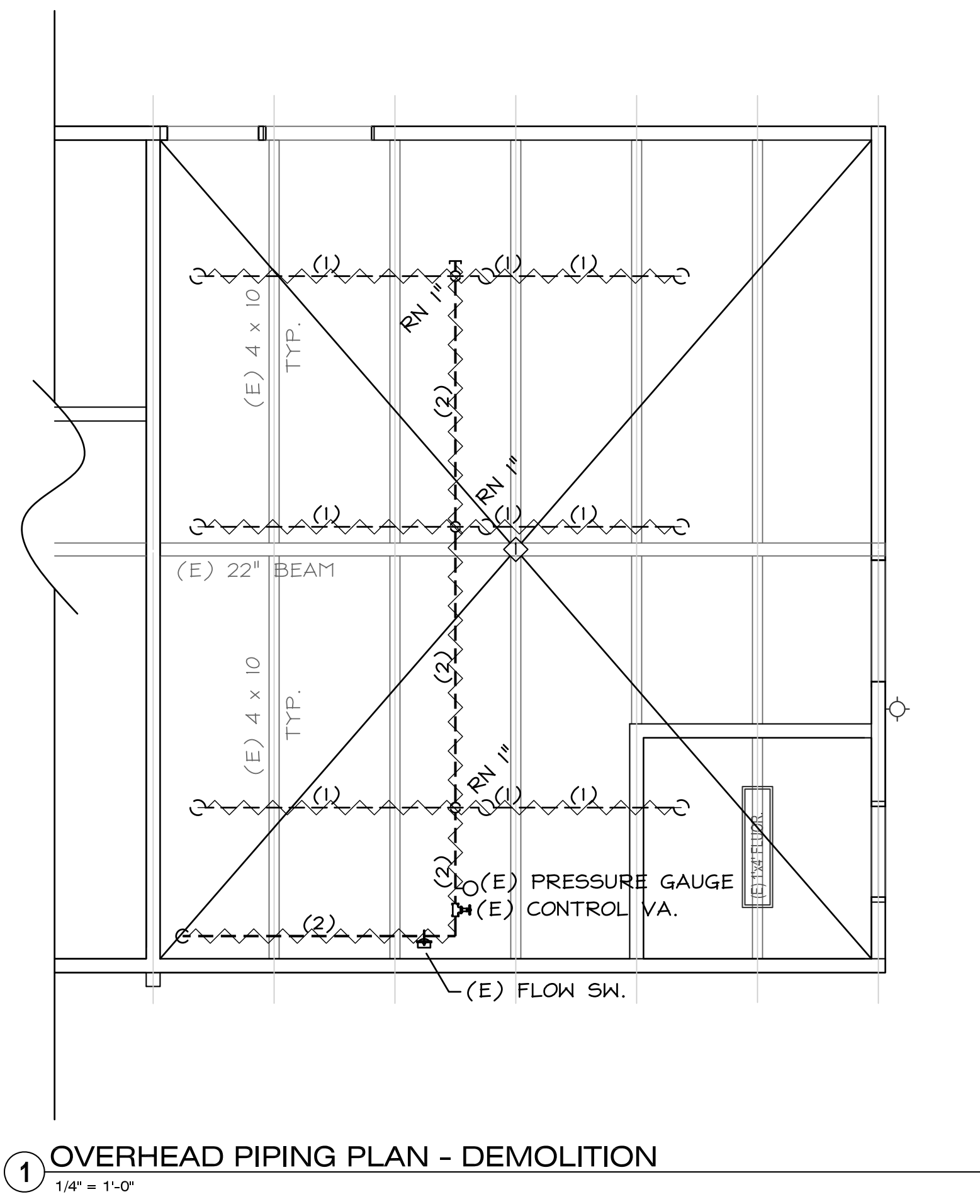

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 for  
**NEVADA JOINT UNION HIGH SCHOOL DISTRICT**  
 NEVADA JOINT UNION HIGH SCHOOL, GRASS VALLEY, CA

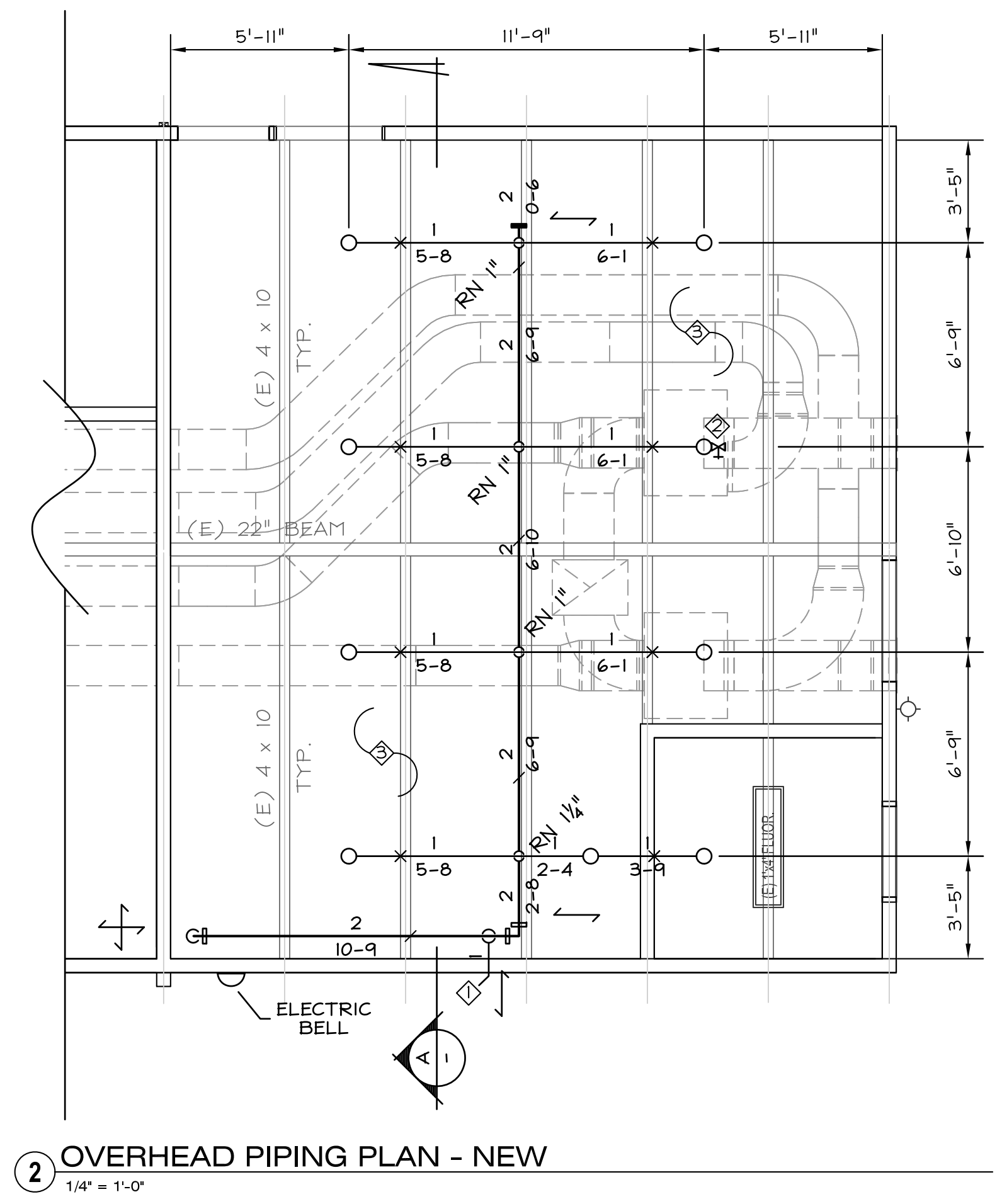
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**FIRE PROTECTION PLAN**  
**SWAY BRACE DETAILS**  
**FP103**



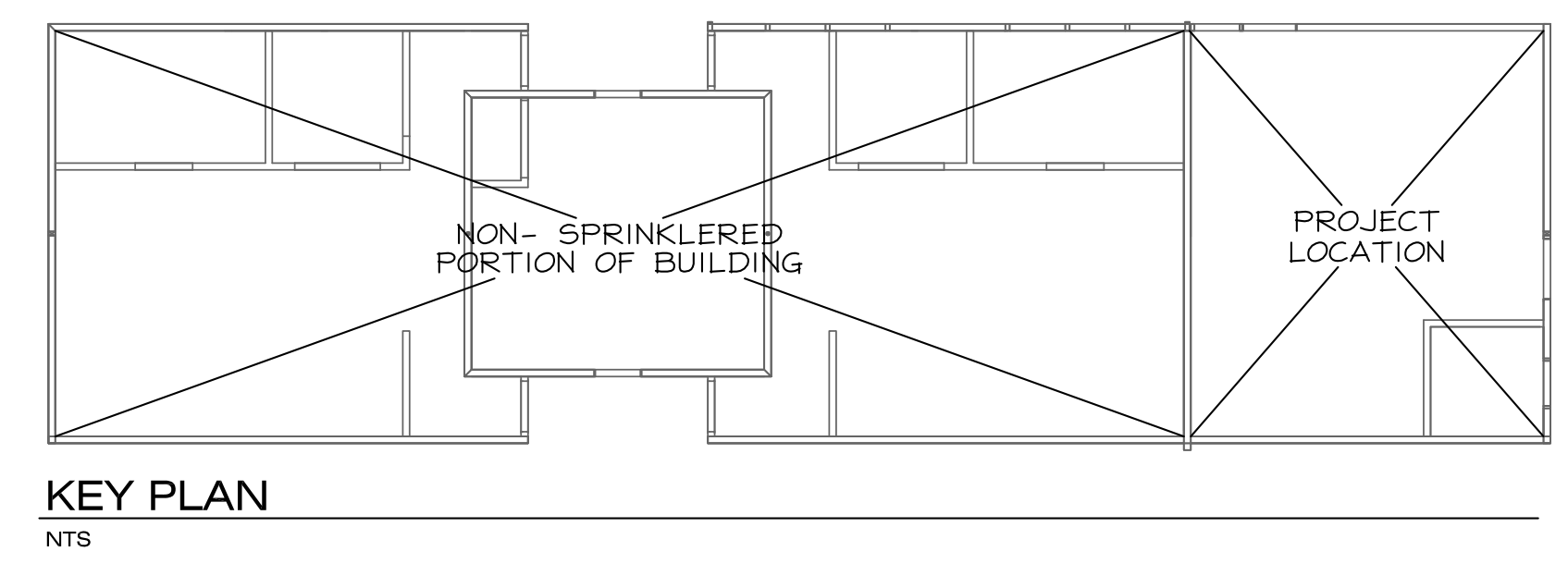
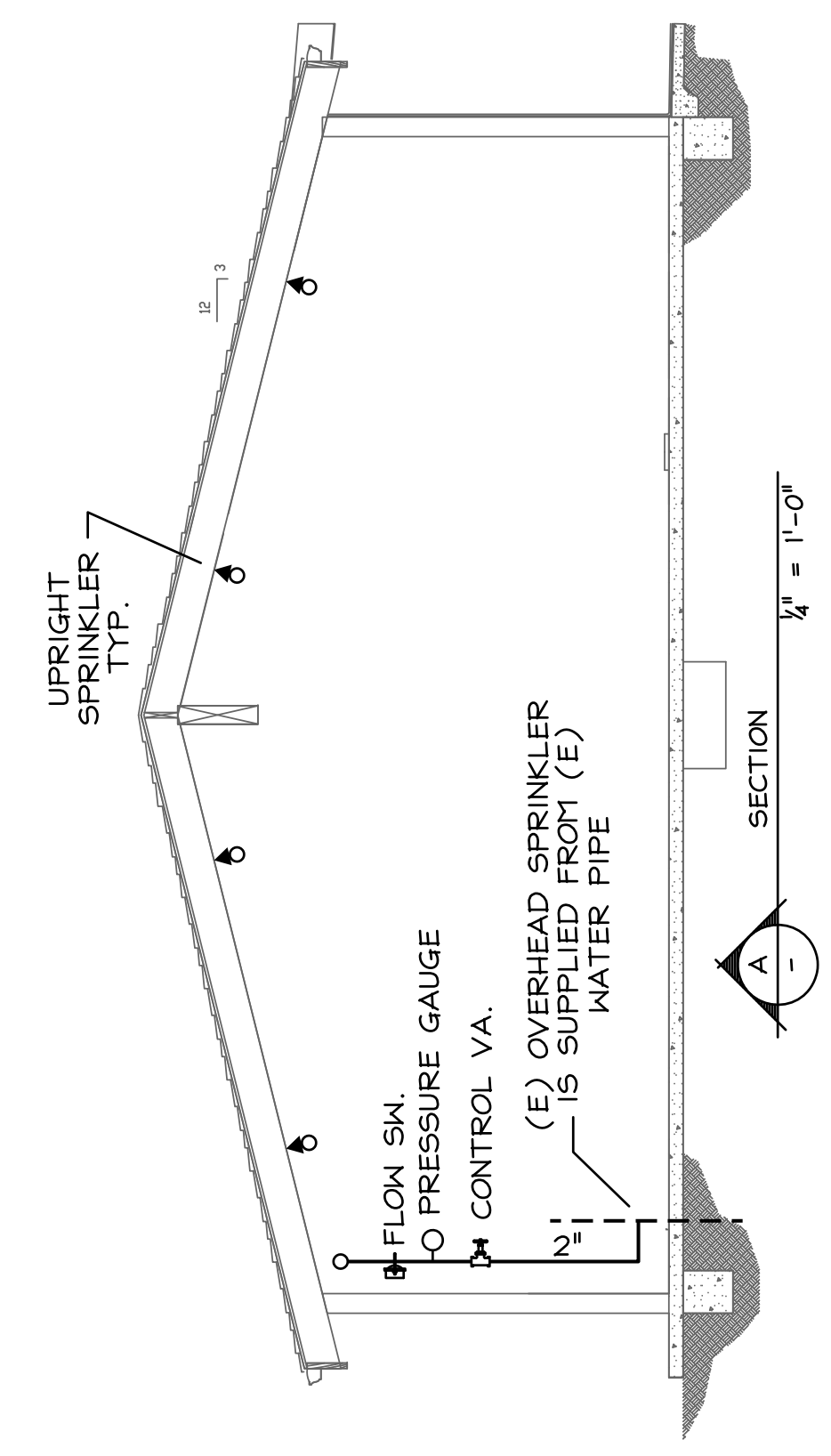
1 OVERHEAD PIPING PLAN - DEMOLITION  
1/4" = 1'-0"

**KEY NOTES - DEMOLITION**  
 ◇ DEMO ALL PIPING, SPRINKLERS, ETC. WITHIN AREA OF WORK



2 OVERHEAD PIPING PLAN - NEW  
1/4" = 1'-0"

**KEY NOTES - NEW**  
 ◇ TEST & DRAIN ASSEMBLY W/ PRESSURE RELIEF VA. DISCHARGE OUTSIDE - SEE 3/FP101  
 ◇ AIR VENT (1" GLOBE VALVE)  
 ◇ PRIOR TO INSTALL CLOSELY COORDINATE W/ MECHANICAL CONTRACTOR TO MINIMIZE CONFLICTS AND POSSIBLE OBSTRUCTIONS



KEY PLAN  
NTS

FILE NUMBER: 34-C3  
 IDENTIFICATION STAMP  
 DIVISION OF THE STATE ARCHITECT  
 02- 116957  
 AC\_BM\_FLS\_MR\_SS\_PVL  
 DATE: 10/11/2018



**ENGINEERED FIRE SYSTEMS**  
 www.efs1.com  
 11832 Tammy Way, Grass Valley, CA 95949  
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Revisions

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**POOL BUILDING RENOVATION**  
 for  
**NEVADA JOINT UNION HIGH SCHOOL DISTRICT**  
 NEVADA JOINT UNION HIGH SCHOOL, GRASS VALLEY, CA

date: 9/19/18  
 scale: AS NOTED  
 job #: 17-429

**FIRE PROTECTION PLAN PIPING PLANS**  
**FP104**



