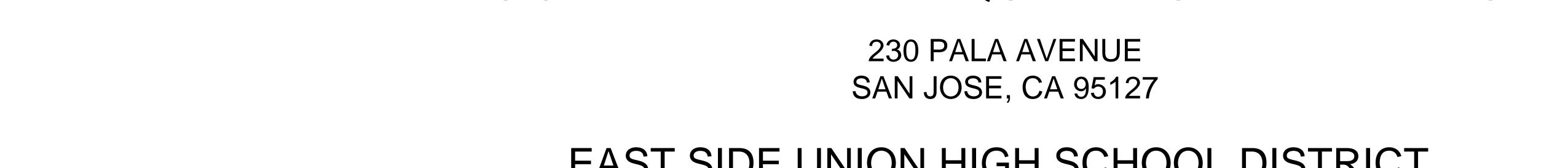
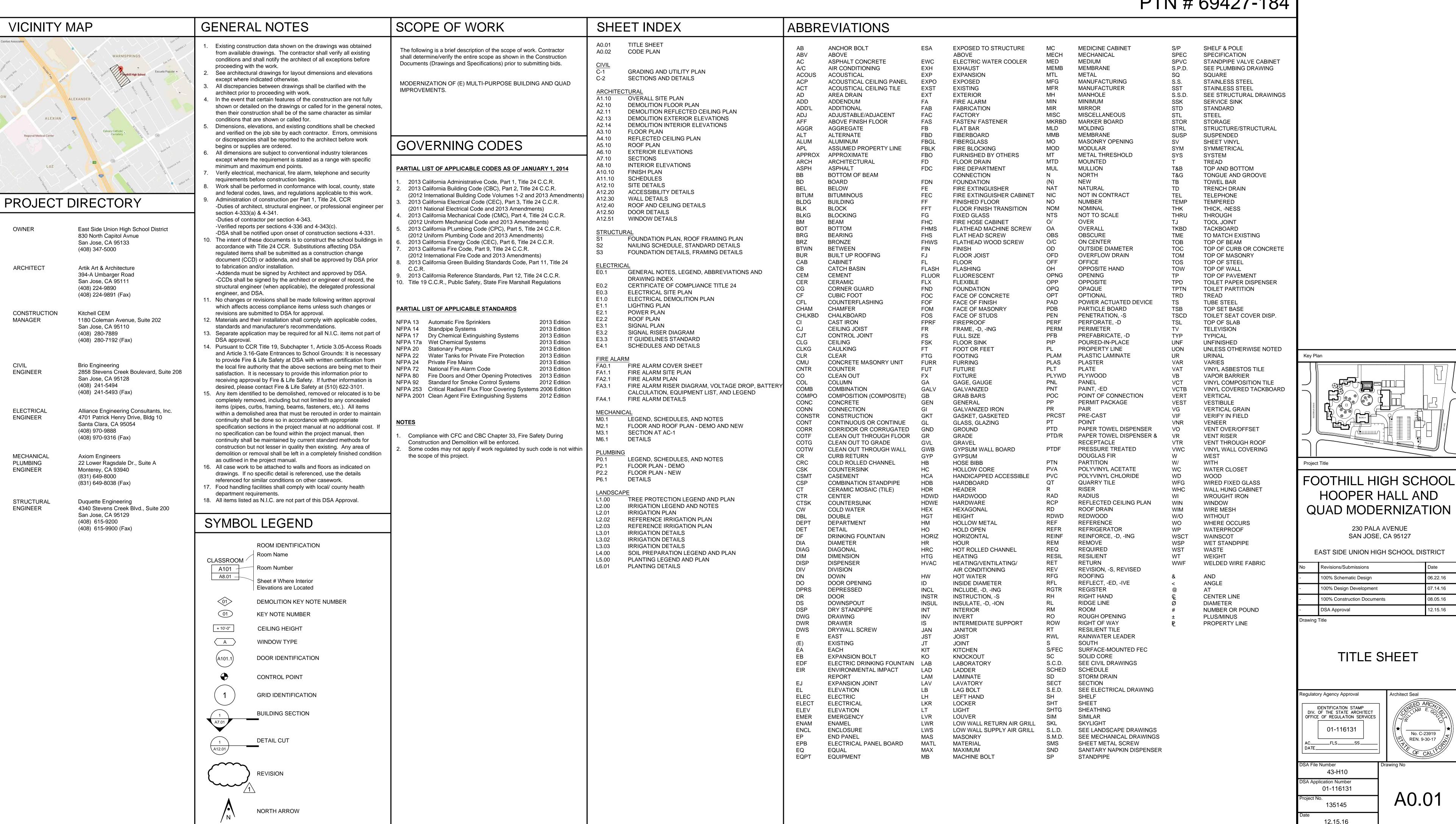
FOOTHILL HIGH SCHOOL HOOPER HALL AND QUAD MODERNIZATION

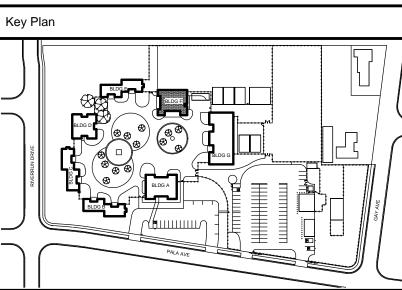
EAST SIDE UNION HIGH SCHOOL DISTRICT

PTN # 69427-184





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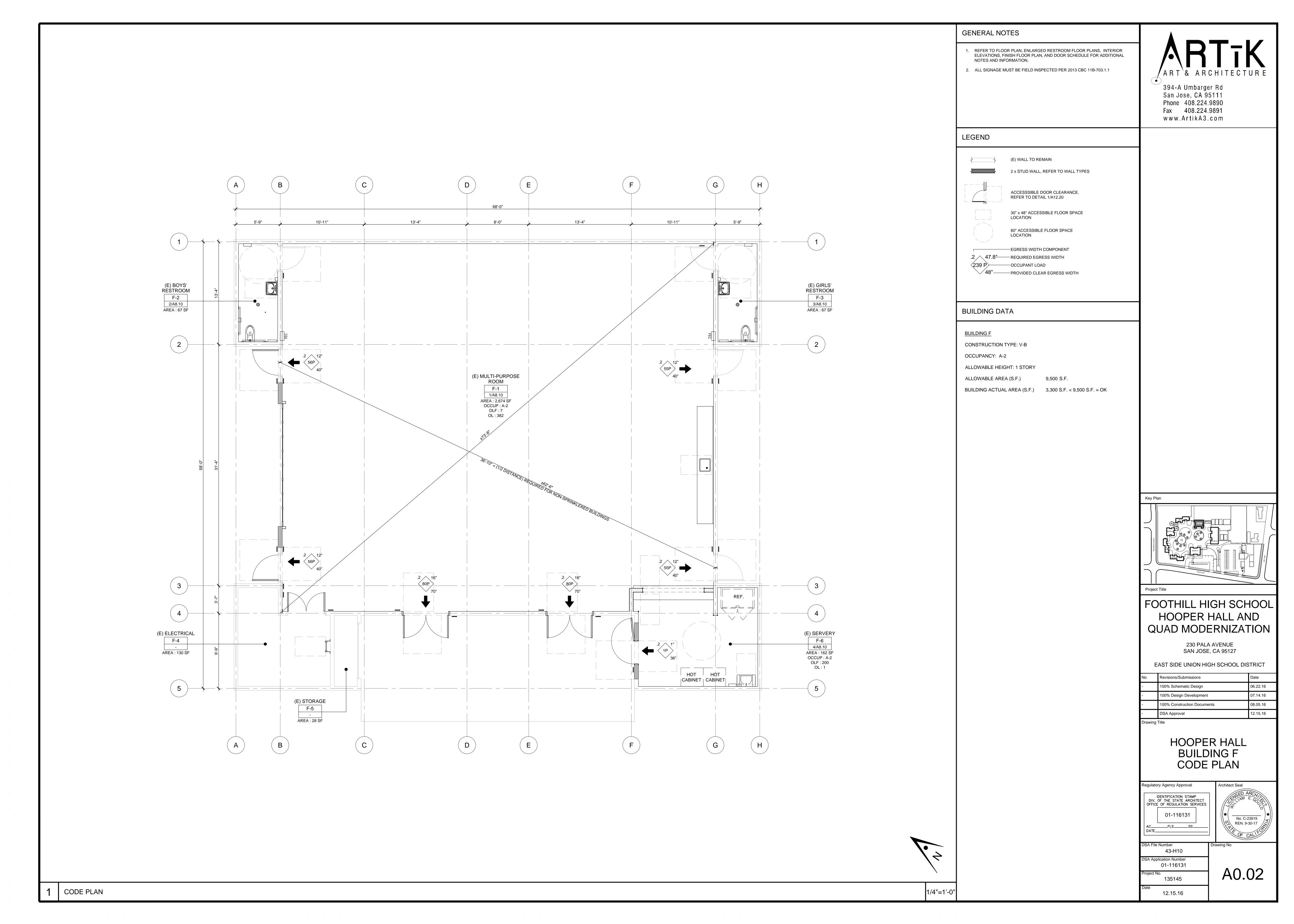


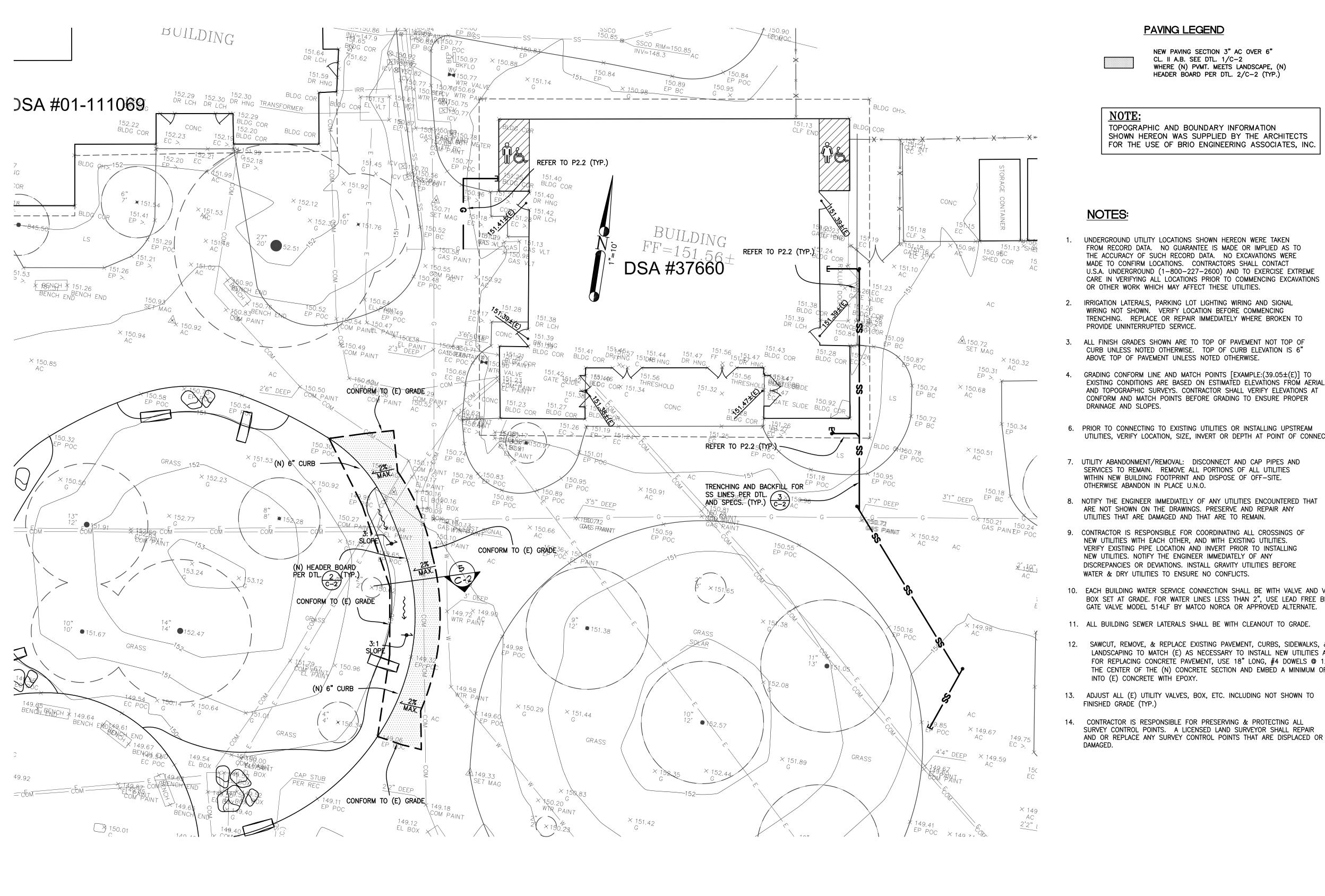
HOOPER HALL AND QUAD MODERNIZATION

EAST SIDE UNION HIGH SCHOOL DISTRICT

No	Revisions/Submissions	Date
-	100% Schematic Design	06.22.16
-	100% Design Development	07.14.16
-	100% Construction Documents	08.05.16
-	DSA Approval	12.15.16
Drawing ¹	Title	

y Agency Approval		Architect Seal
DENTIFICATION STAMP OF THE STATE ARCHIT OF REGULATION SERV		CELLIAM E. GOLFG
01-116131	V1020	No. C-23919
FLSSS		REN. 9-30-17







NEW PAVING SECTION 3" AC OVER 6" CL. II A.B. SEE DTL. 1/C-2 WHERE (N) PVMT. MEETS LANDSCAPE, (N) HEADER BOARD PER DTL. 2/C-2 (TYP.)

NOTE:

TOPOGRAPHIC AND BOUNDARY INFORMATION SHOWN HEREON WAS SUPPLIED BY THE ARCHITECTS FOR THE USE OF BRIO ENGINEERING ASSOCIATES, INC.

- UNDERGROUND UTILITY LOCATIONS SHOWN HEREON WERE TAKEN FROM RECORD DATA. NO GUARANTEE IS MADE OR IMPLIED AS TO THE ACCURACY OF SUCH RECORD DATA. NO EXCAVATIONS WERE MADE TO CONFIRM LOCATIONS. CONTRACTORS SHALL CONTACT U.S.A. UNDERGROUND (1-800-227-2600) AND TO EXERCISE EXTREME CARE IN VERIFYING ALL LOCATIONS PRIOR TO COMMENCING EXCAVATIONS OR OTHER WORK WHICH MAY AFFECT THESE UTILITIES.
- IRRIGATION LATERALS, PARKING LOT LIGHTING WIRING AND SIGNAL WIRING NOT SHOWN. VERIFY LOCATION BEFORE COMMENCING TRENCHING. REPLACE OR REPAIR IMMEDIATELY WHERE BROKEN TO PROVIDE UNINTERRUPTED SERVICE.
- CURB UNLESS NOTED OTHERWISE. TOP OF CURB ELEVATION IS 6" ABOVE TOP OF PAVEMENT UNLESS NOTED OTHERWISE. 4. GRADING CONFORM LINE AND MATCH POINTS [EXAMPLE: $(39.05\pm(E))$] TO
- AND TOPOGRAPHIC SURVEYS. CONTRACTOR SHALL VERIFY ELEVATIONS AT CONFORM AND MATCH POINTS BEFORE GRADING TO ENSURE PROPER DRAINAGE AND SLOPES.
- 6. PRIOR TO CONNECTING TO EXISTING UTILITIES OR INSTALLING UPSTREAM UTILITIES, VERIFY LOCATION, SIZE, INVERT OR DEPTH AT POINT OF CONNECTION.
- 7. UTILITY ABANDONMENT/REMOVAL: DISCONNECT AND CAP PIPES AND SERVICES TO REMAIN. REMOVE ALL PORTIONS OF ALL UTILITIES WITHIN NEW BUILDING FOOTPRINT AND DISPOSE OF OFF-SITE. OTHERWISE ABANDON IN PLACE U.N.O.
- 8. NOTIFY THE ENGINEER IMMEDIATELY OF ANY UTILITIES ENCOUNTERED THAT ARE NOT SHOWN ON THE DRAWINGS. PRESERVE AND REPAIR ANY UTILITIES THAT ARE DAMAGED AND THAT ARE TO REMAIN.
- CONTRACTOR IS RESPONSIBLE FOR COORDINATING ALL CROSSINGS OF NEW UTILITIES WITH EACH OTHER, AND WITH EXISTING UTILITIES. VERIFY EXISTING PIPE LOCATION AND INVERT PRIOR TO INSTALLING NEW UTILITIES. NOTIFY THE ENGINEER IMMEDIATELY OF ANY DISCREPANCIES OR DEVIATIONS. INSTALL GRAVITY UTILITIES BEFORE WATER & DRY UTILITIES TO ENSURE NO CONFLICTS.
- 10. EACH BUILDING WATER SERVICE CONNECTION SHALL BE WITH VALVE AND VALVE BOX SET AT GRADE. FOR WATER LINES LESS THAN 2", USE LEAD FREE BRASS GATE VALVE MODEL 514LF BY MATCO NORCA OR APPROVED ALTERNATE.
- 11. ALL BUILDING SEWER LATERALS SHALL BE WITH CLEANOUT TO GRADE.
- SAWCUT, REMOVE, & REPLACE EXISTING PAVEMENT, CURBS, SIDEWALKS, & LANDSCAPING TO MATCH (E) AS NECESSARY TO INSTALL NEW UTILITIES AS SHOWN. FOR REPLACING CONCRETE PAVEMENT, USE 18" LONG, #4 DOWELS @ 12" O.C. ON THE CENTER OF THE (N) CONCRETE SECTION AND EMBED A MINIMUM OF 6" INTO (E) CONCRETE WITH EPOXY.
- 13. ADJUST ALL (E) UTILITY VALVES, BOX, ETC. INCLUDING NOT SHOWN TO FINISHED GRADE (TYP.)
- 14. CONTRACTOR IS RESPONSIBLE FOR PRESERVING & PROTECTING ALL SURVEY CONTROL POINTS. A LICENSED LAND SURVEYOR SHALL REPAIR

LEGEND

4//////

DESCRIPTION PROPERTY LINE SETBACK LINE

> CONCRETE CURB & GUTTER SAWCUT/CONFORM LINE

ACCESSIBLE RAMP

FIRE HYDRANT EDGE OF PAVEMENT

(ELEC.,TEL.,GAS & CATV)

FIRE SERVICE LINE & SIZE ELECTRIC LINE

COMMUNICATION LINE (E) UTILITY TO BE ABANDONED OR REMOVED IF IT IS WITHIN THE NEW BLDG. FOOTPRINT/FOOTING AREA.

CLEAN OUT TO GRADE CATCH BASIN DRAINAGE ARROW BACK FLOW PREVENTOR

TELEPHONE BOX UNKNOWN UTILITY BOX POWER (ELECTRICAL) BOX

WATER METER WATER BOX

TREE W/SIZE & DRIPLINE

JUNCTION POLE

TREE W/SIZE & NO DRIPLINE

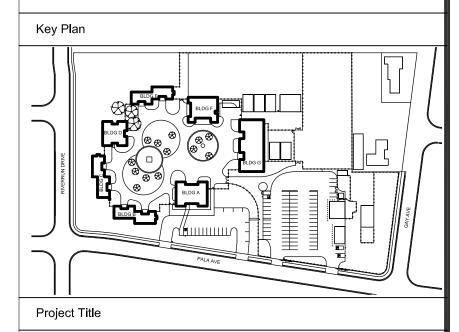
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BRIO JOB NO.: ESSD1619





FOOTHILL HIGH SCHOOL HOOPER HALL AND **QUAD MODERNIZATION**

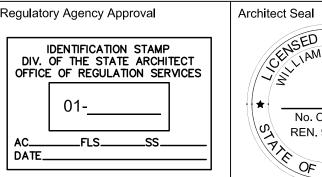
230 PALA AVENUE SAN JOSE, CA 95127

EAST SIDE UNION HIGH SCHOOL DISTRICT

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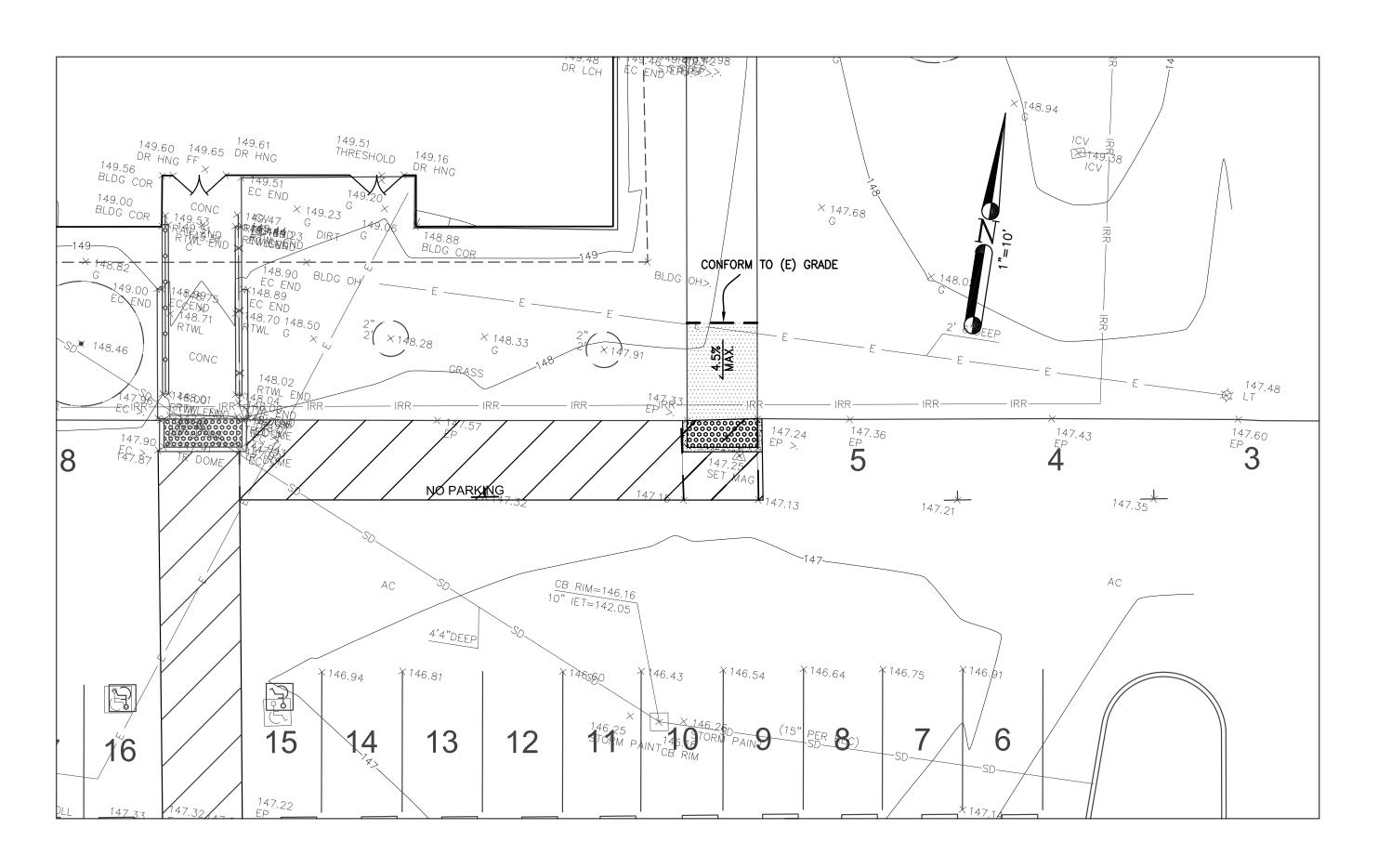
GRADING & UTILITY PLAN

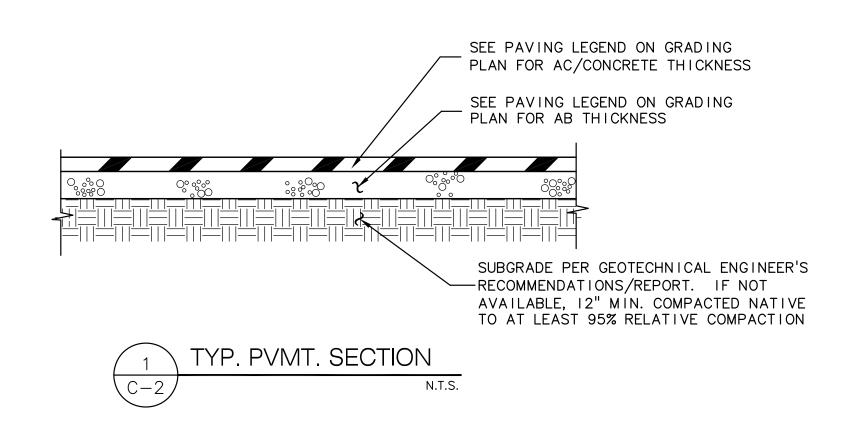


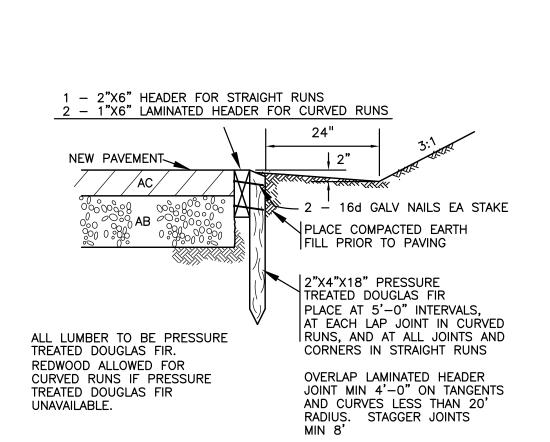
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43-H10		
DSA Application Number 01		

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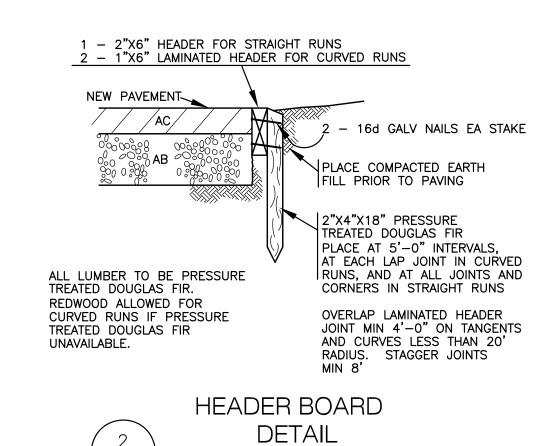
No. C-23919 (%) REN. 9-30-17



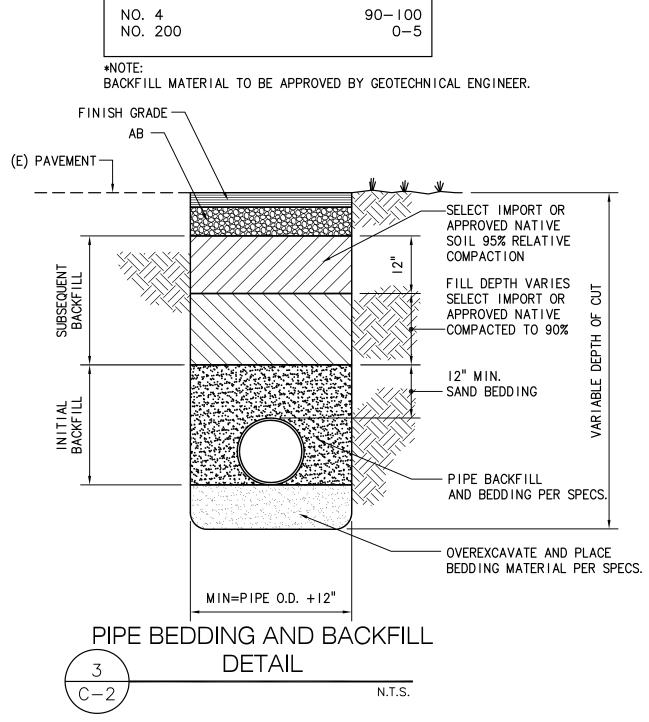






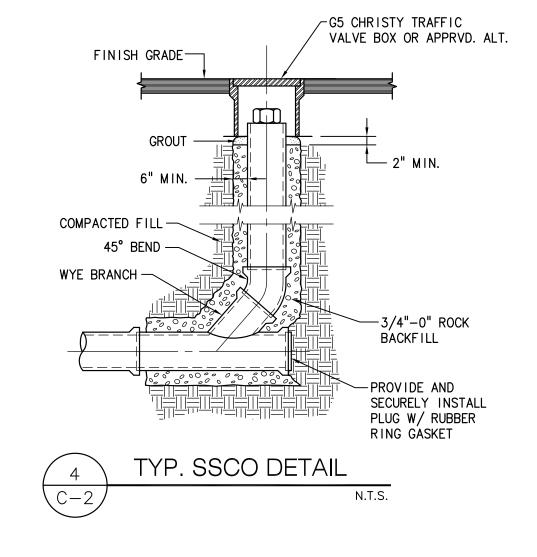


N.T.S.



*SELECT IMPORT SPECIFICATIONS

SIEVE SIZE PERCENTAGE PASSING



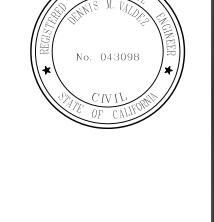


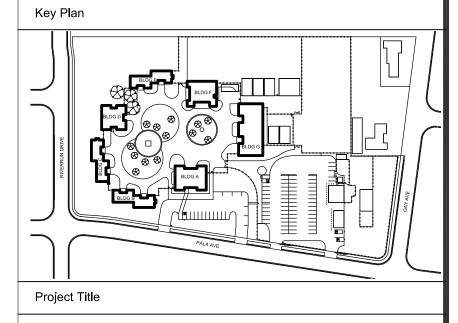
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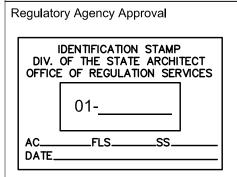
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GRADING & UTILITY PLAN



No. C-23919
REN. 9-30-17
Property OF CALIFOR

Architect Seal

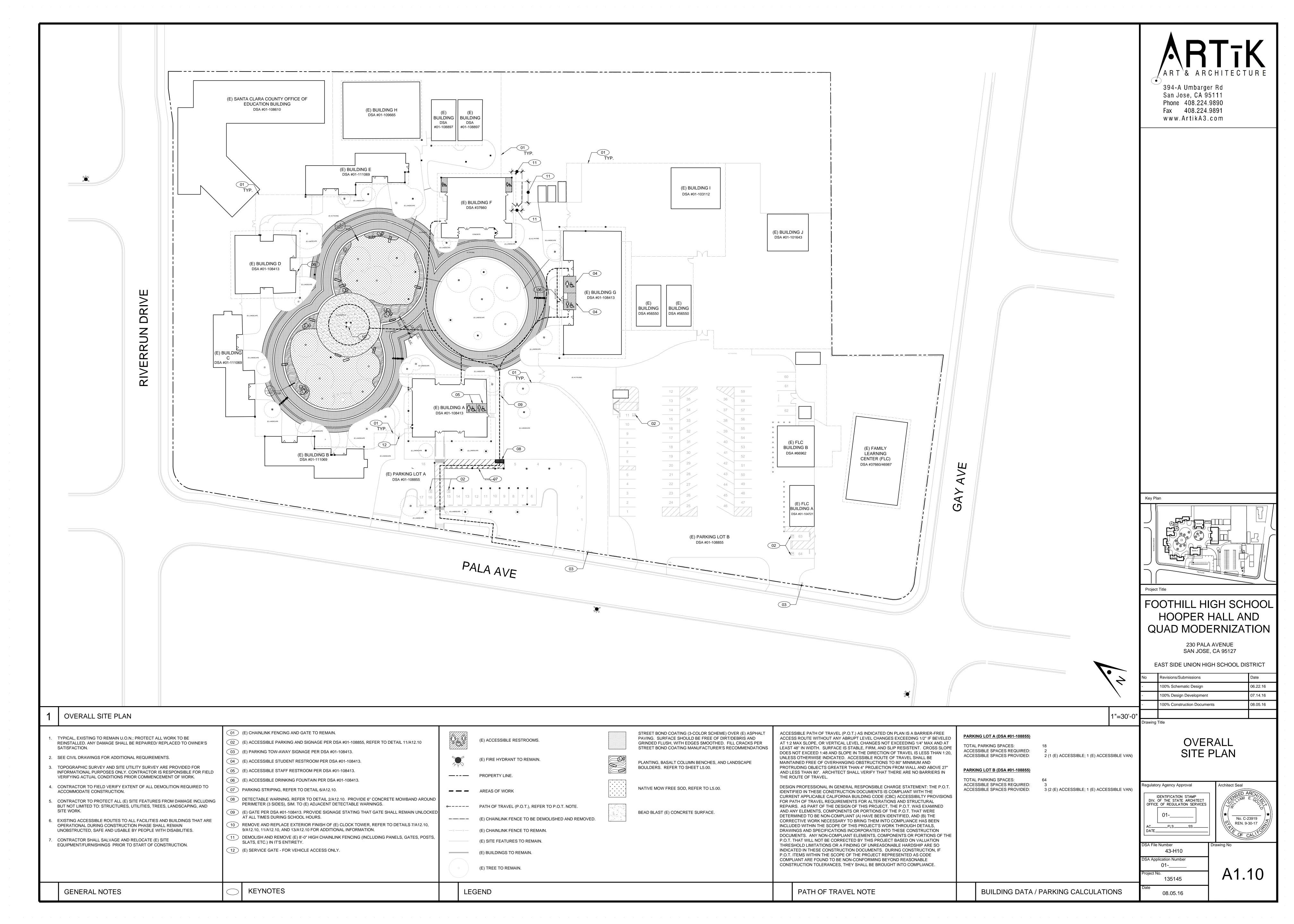
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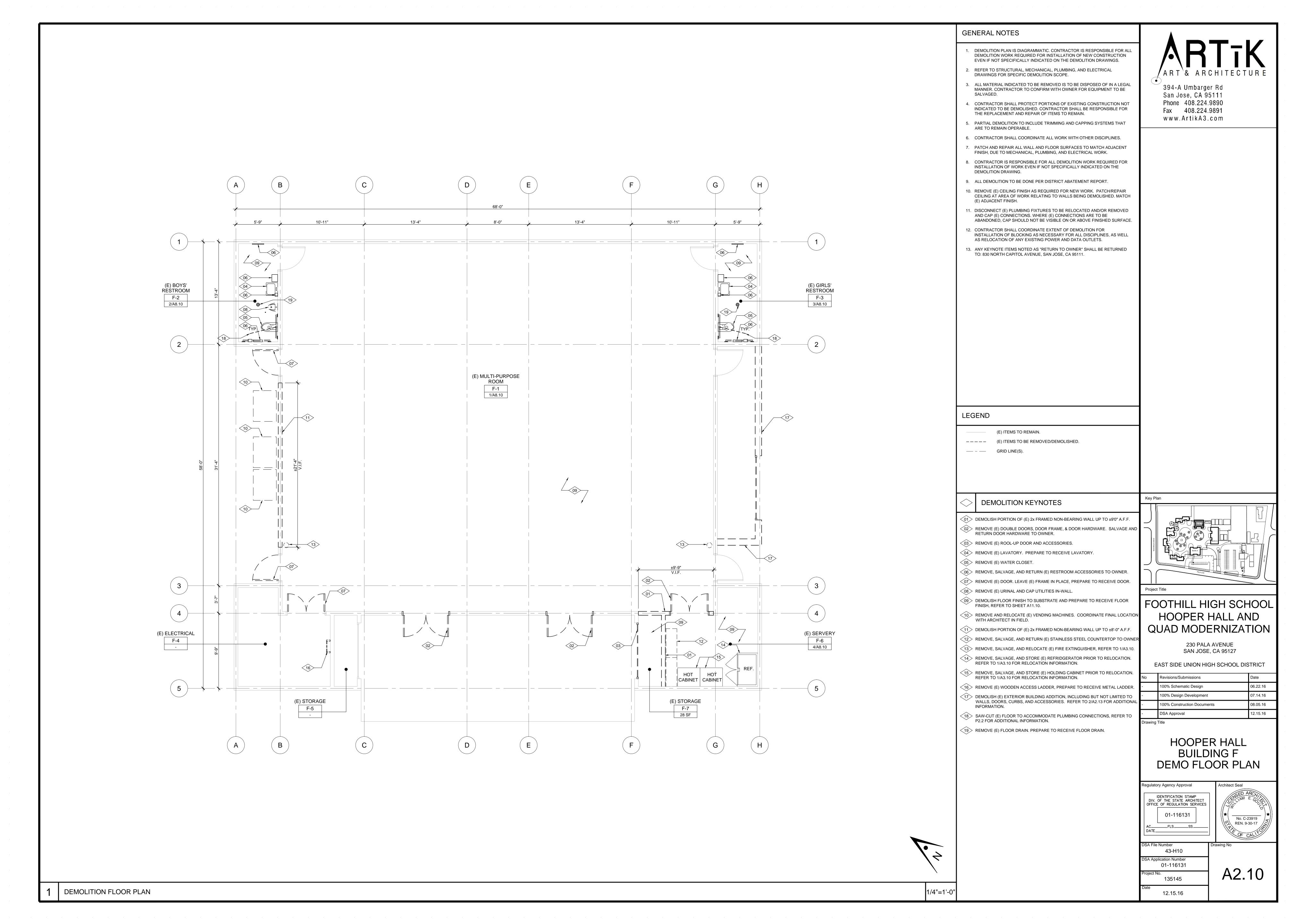
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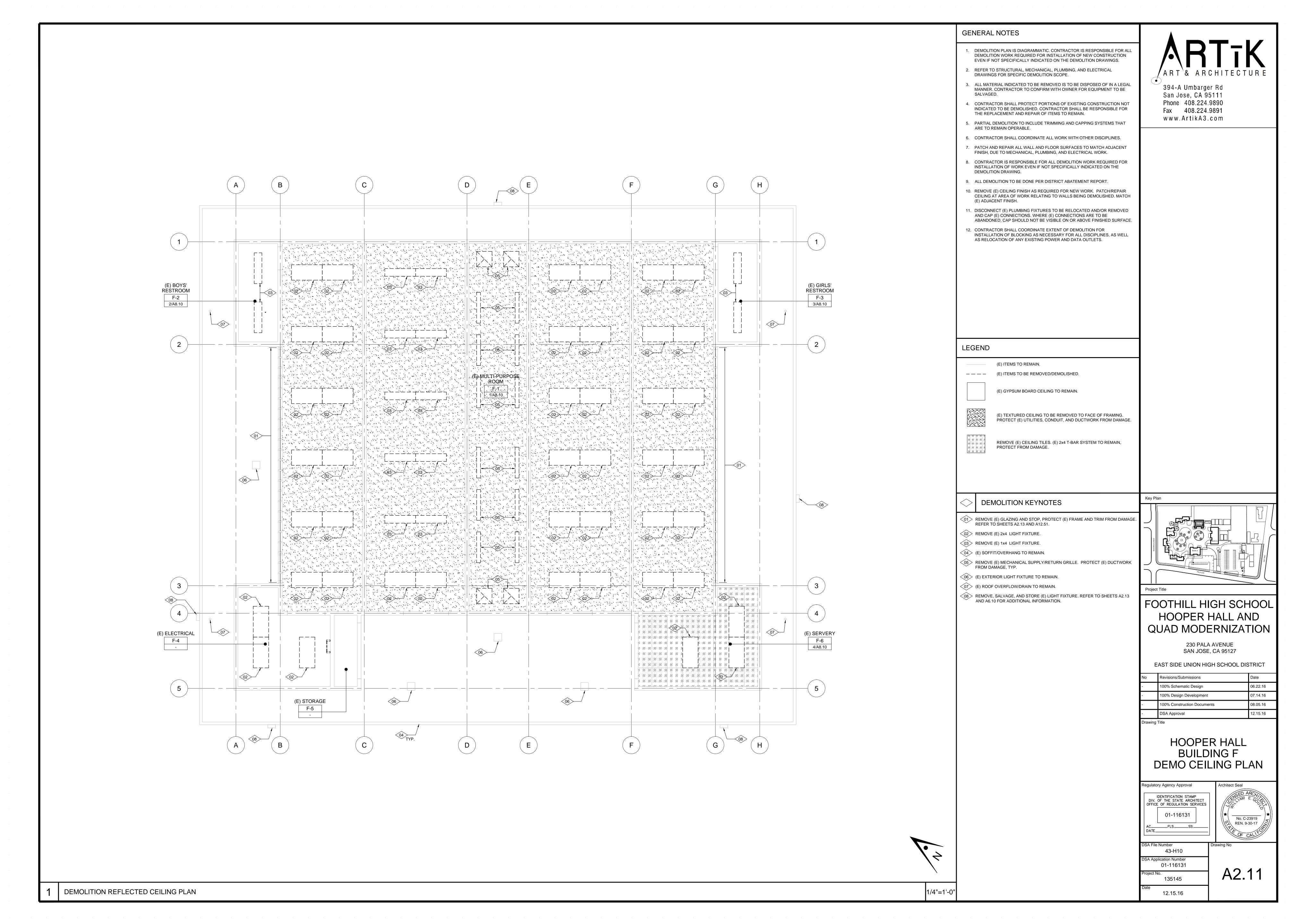
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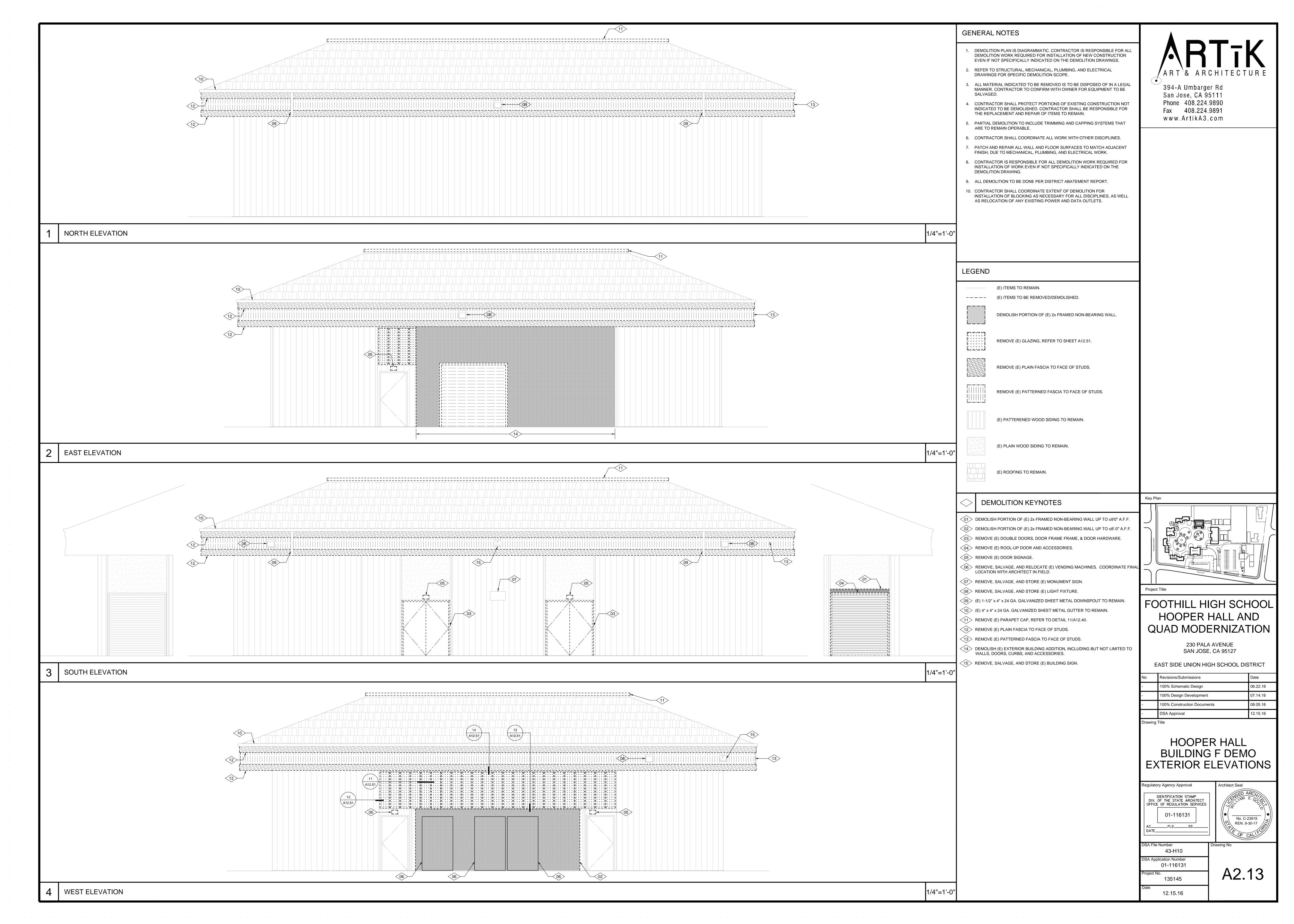
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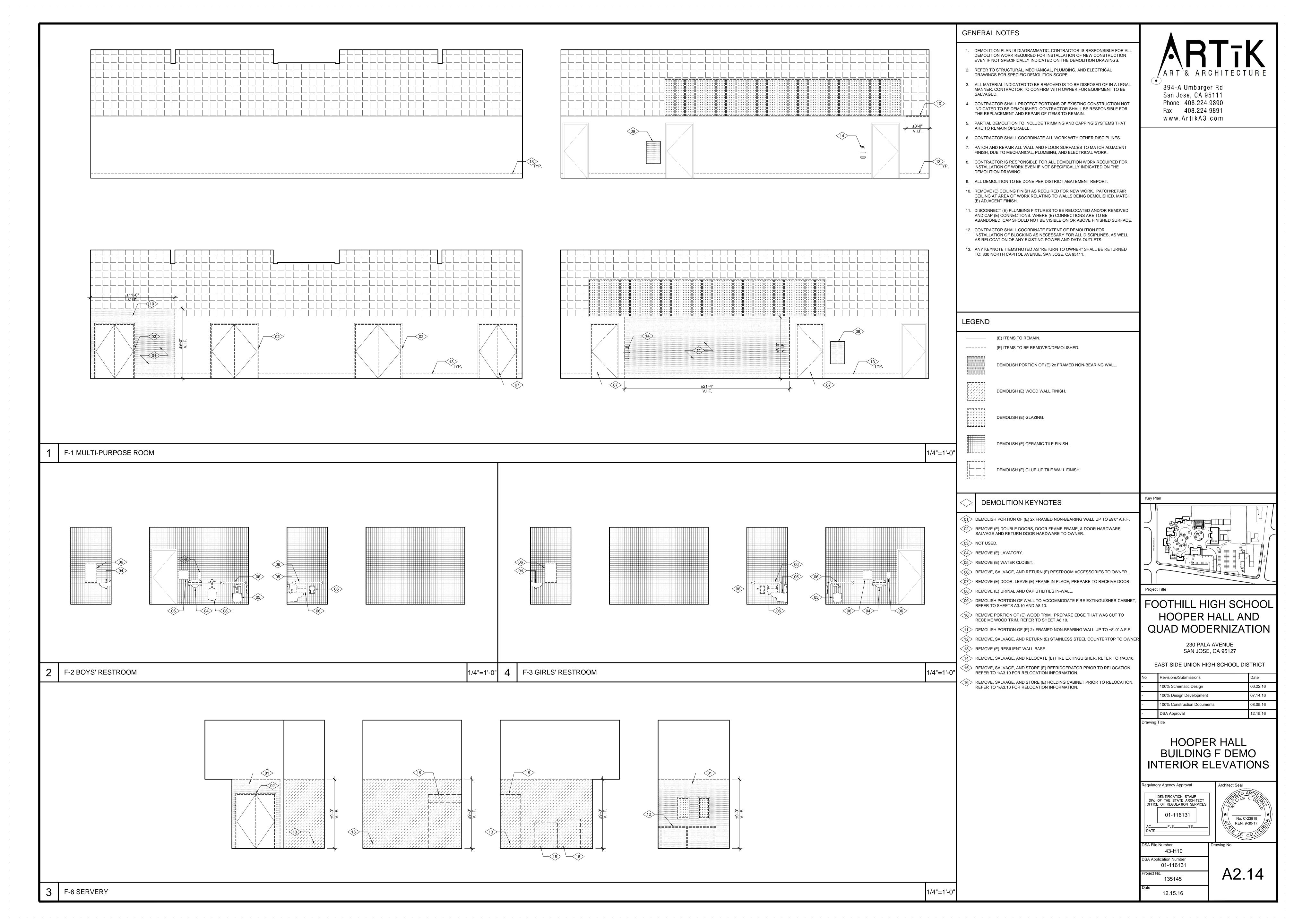
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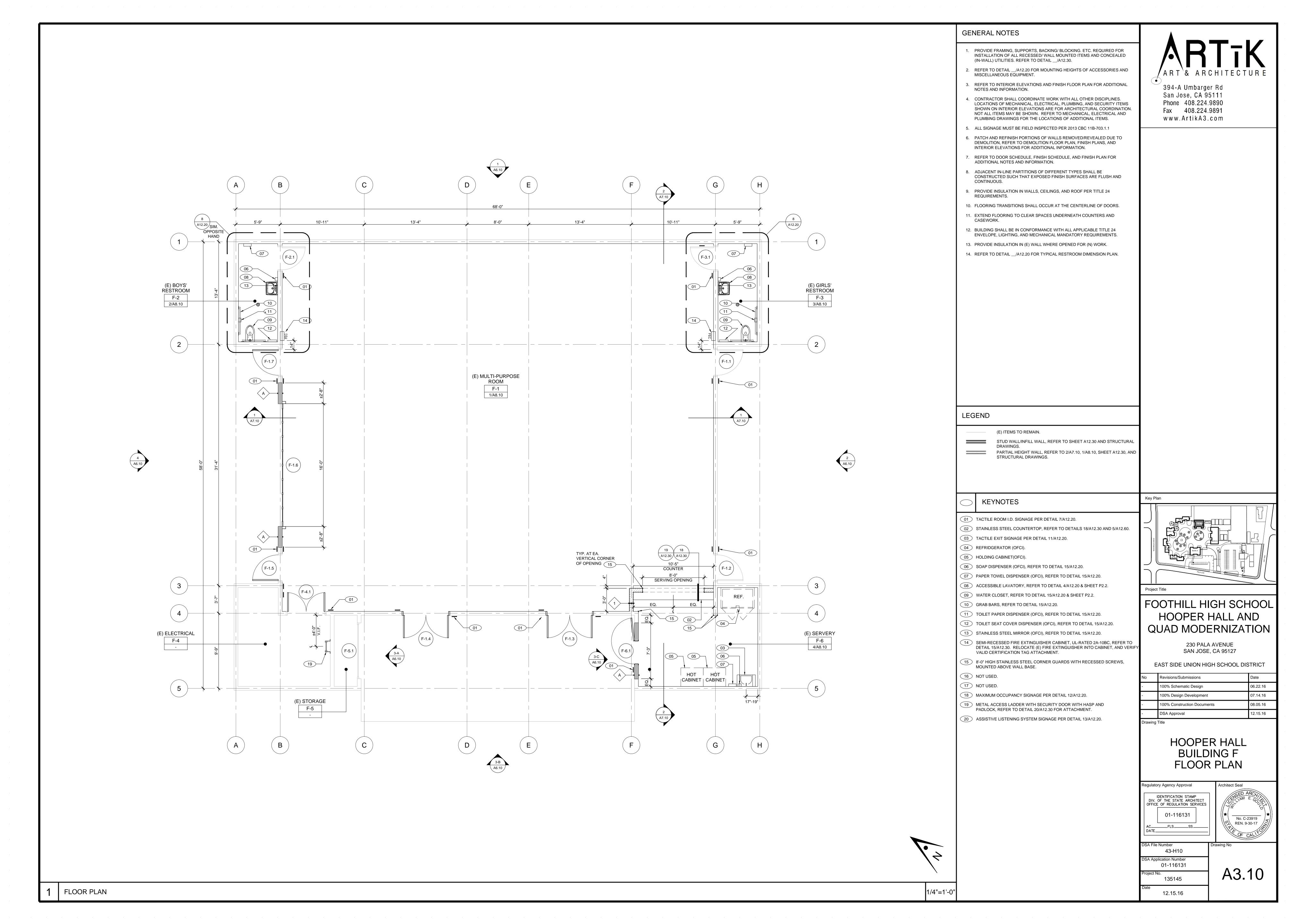


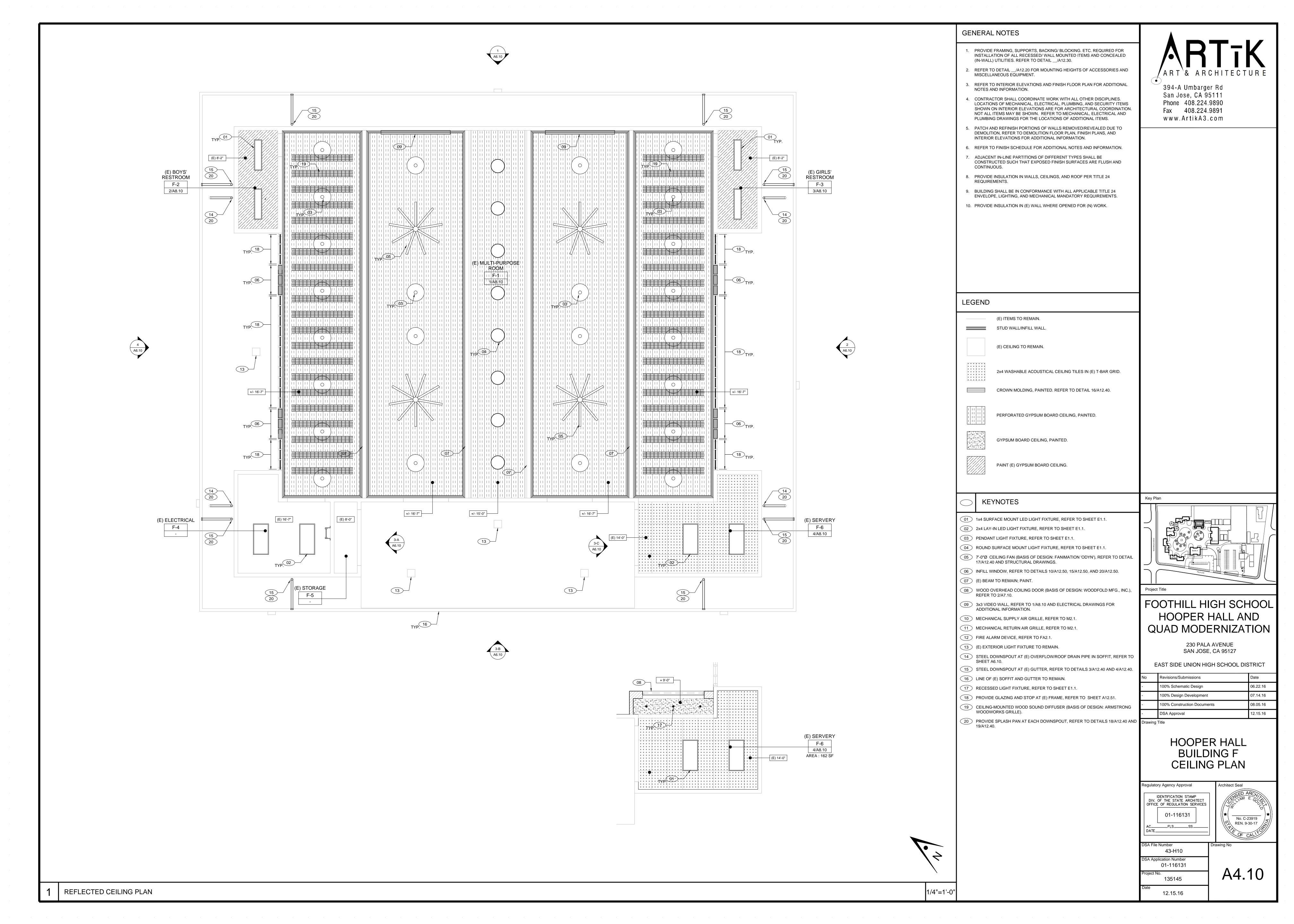


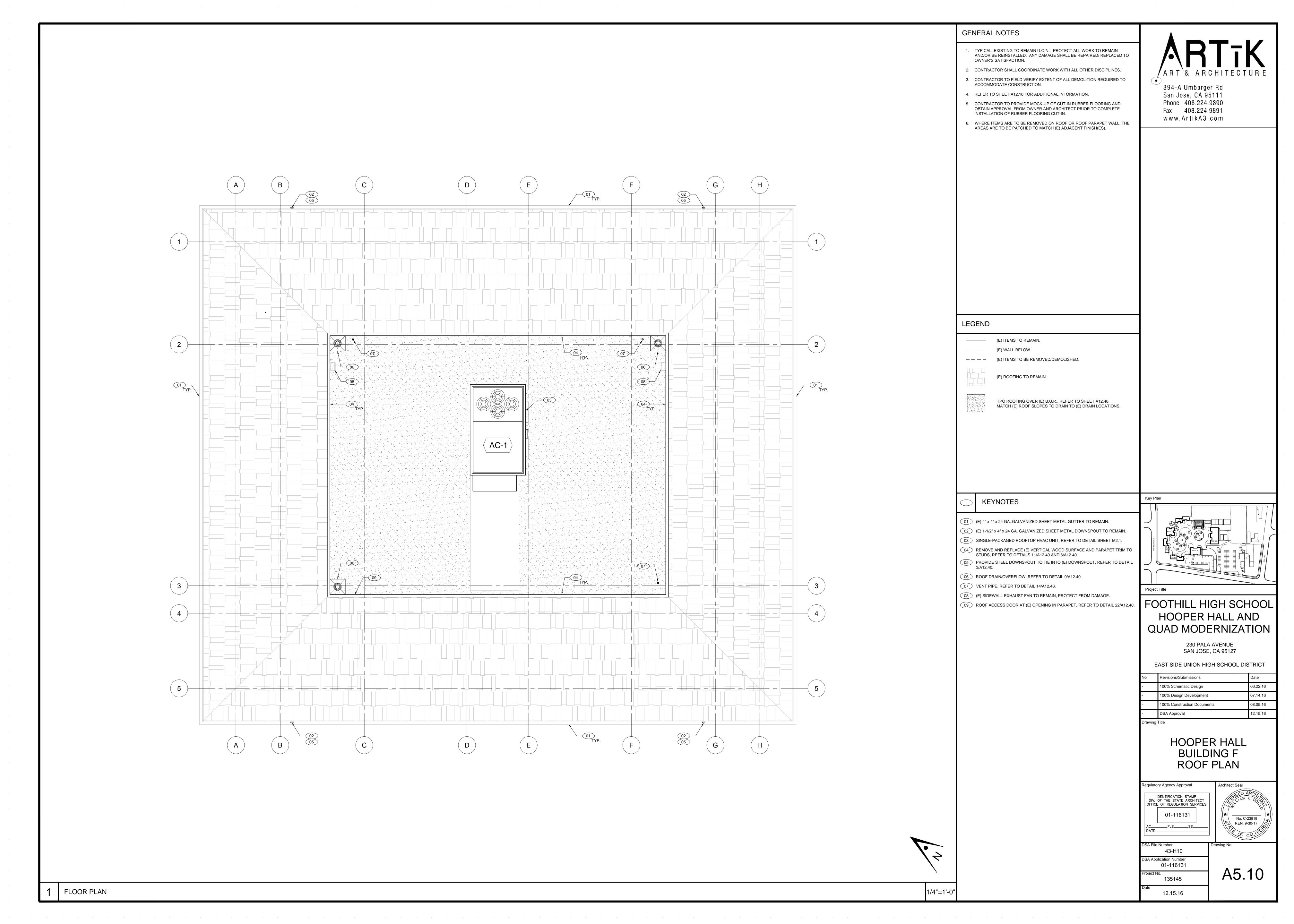


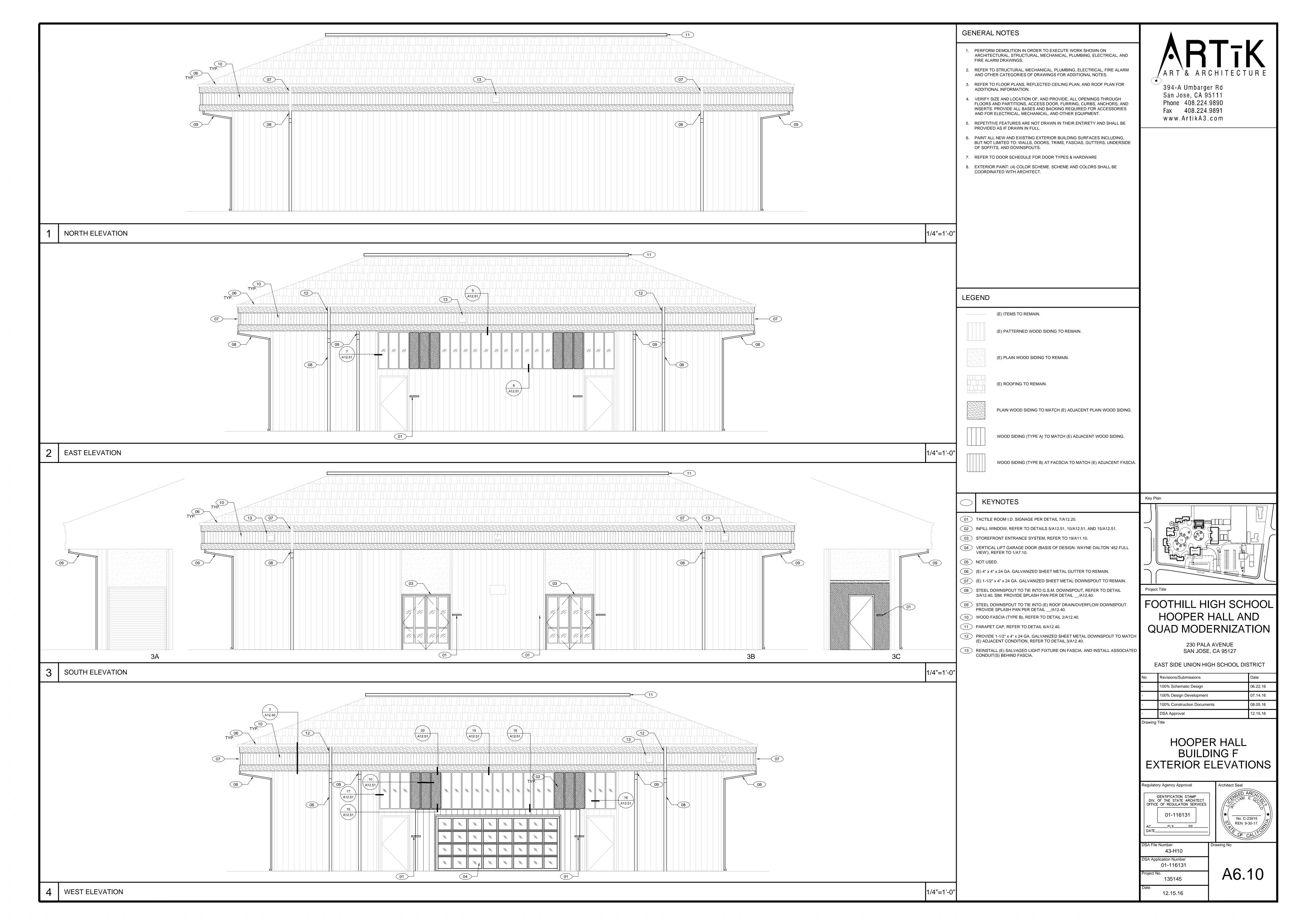


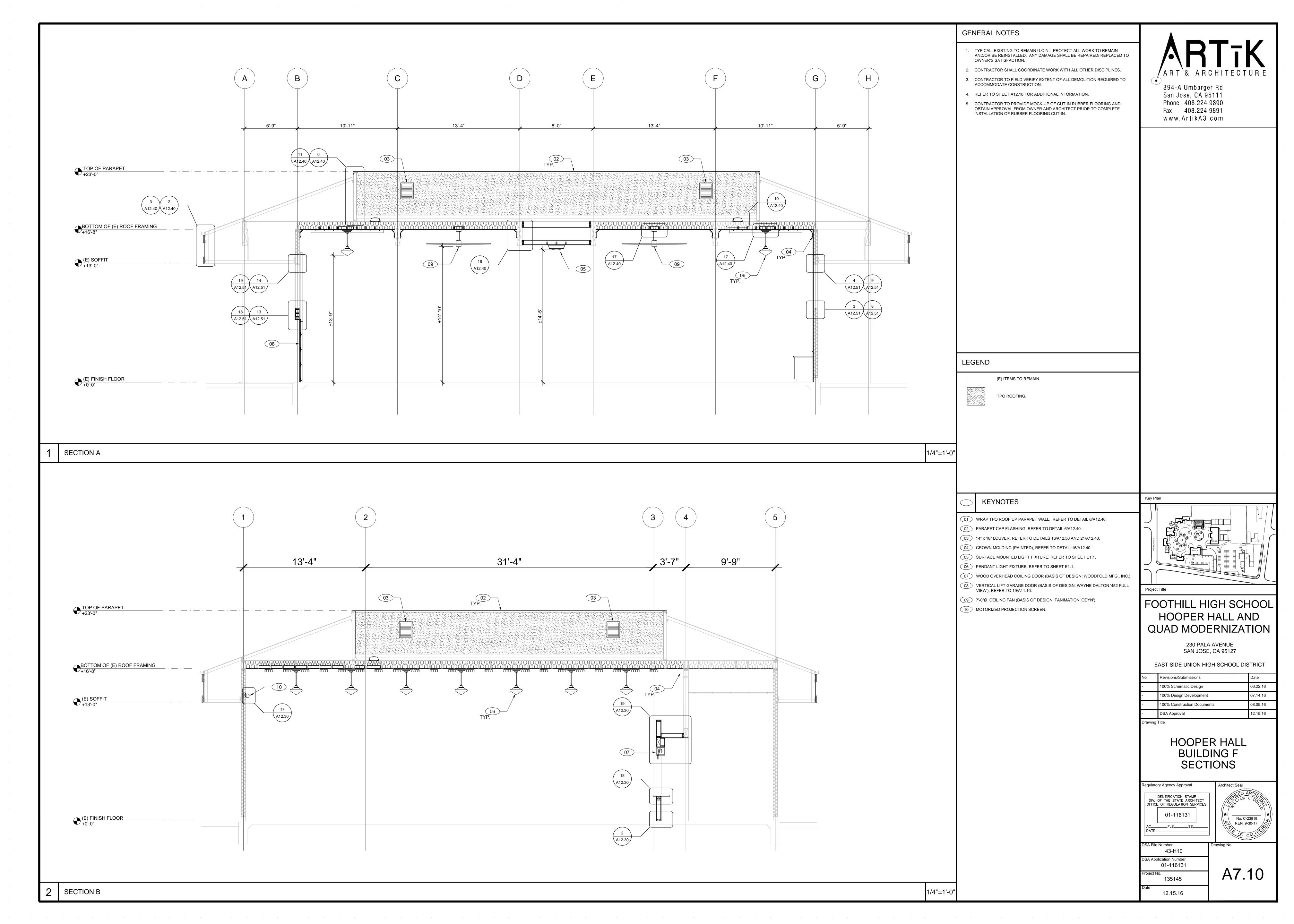


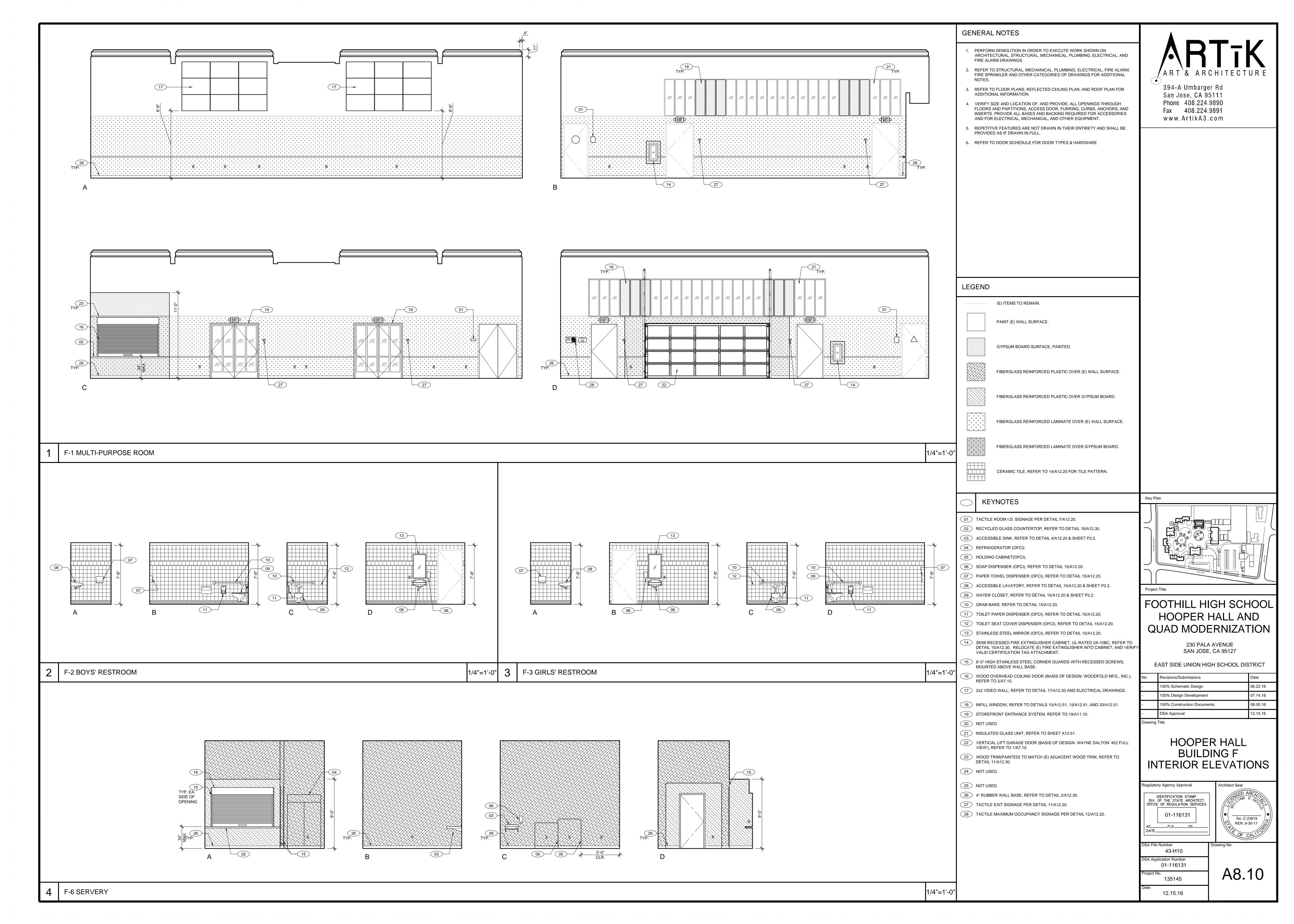


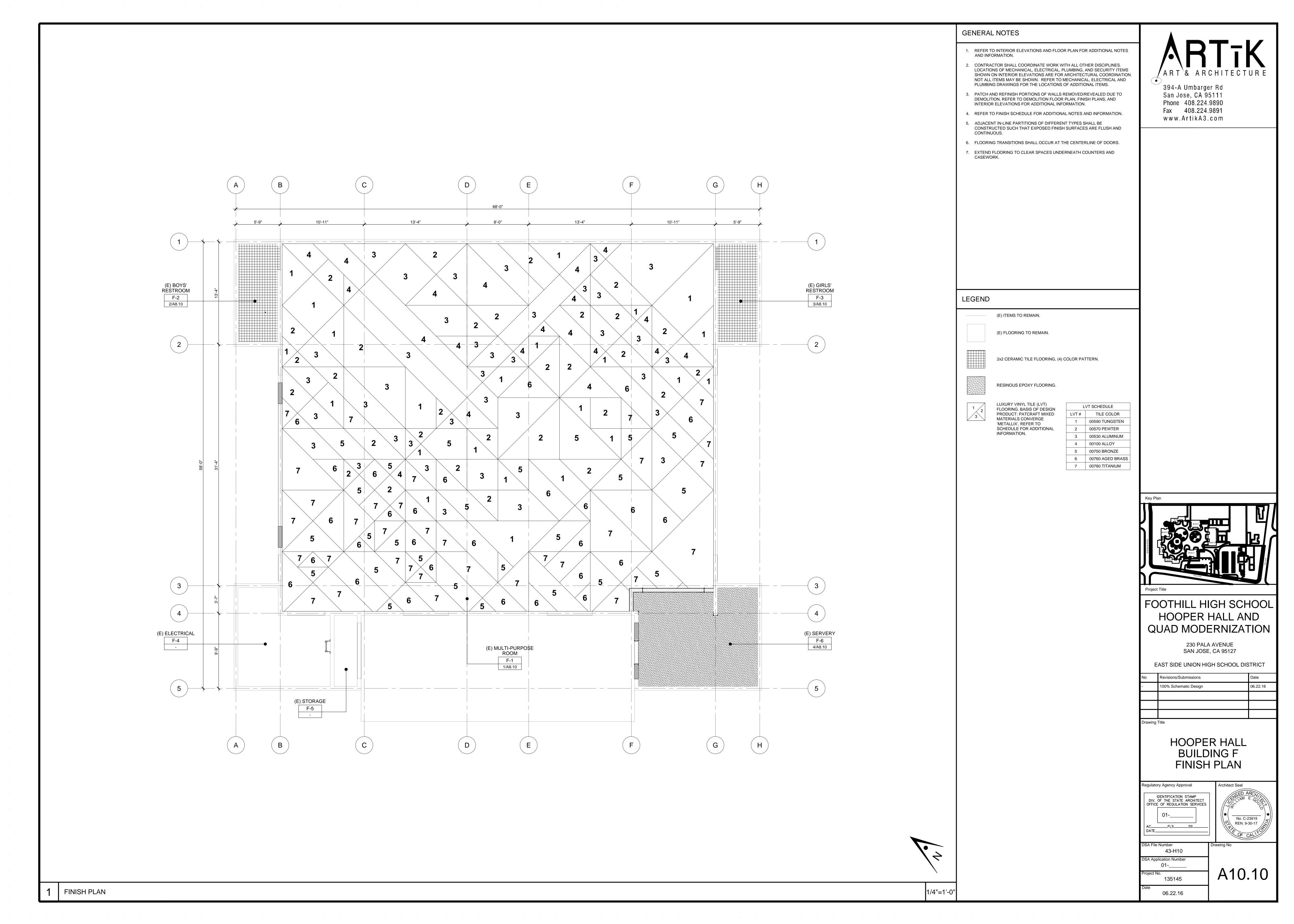


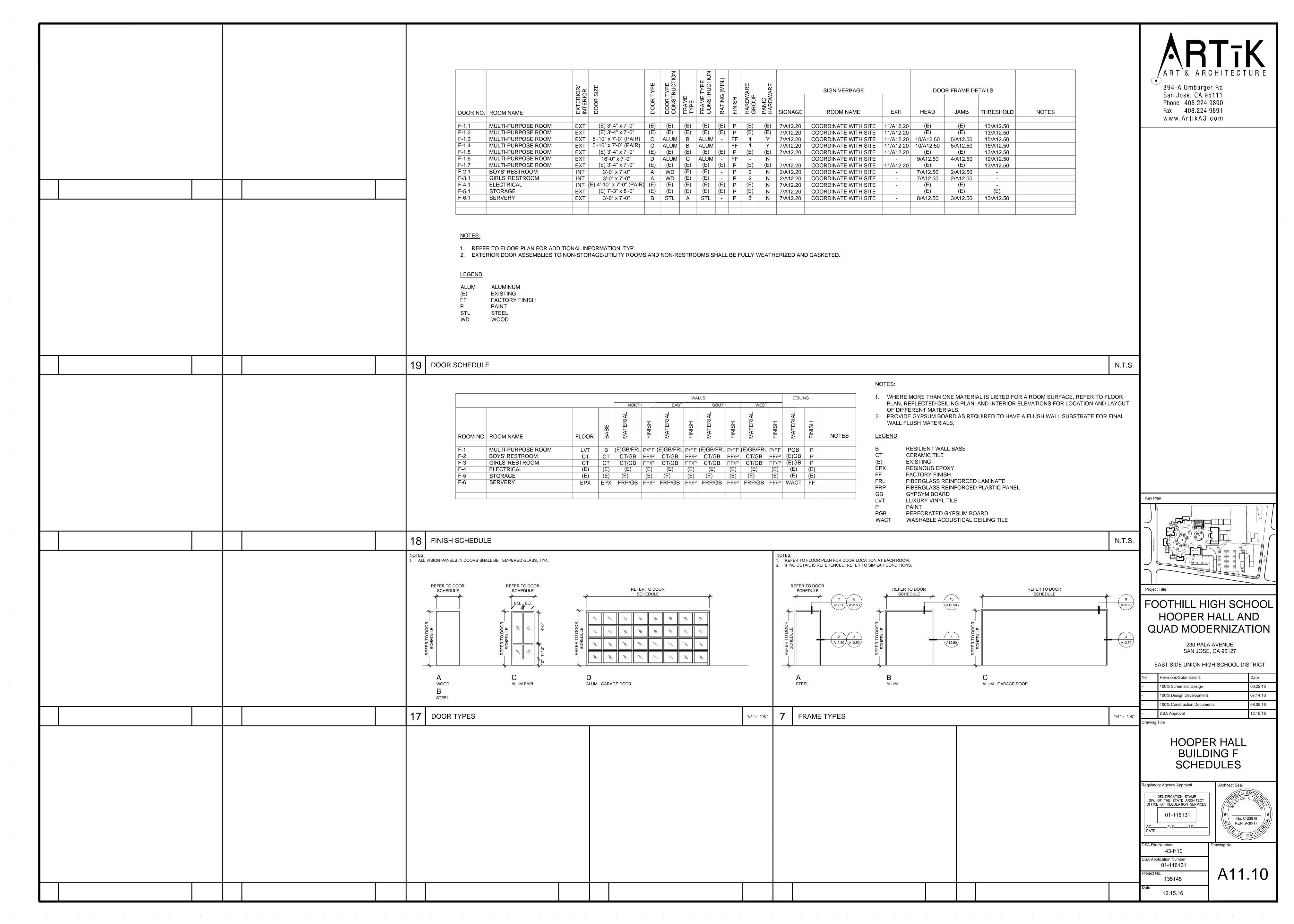


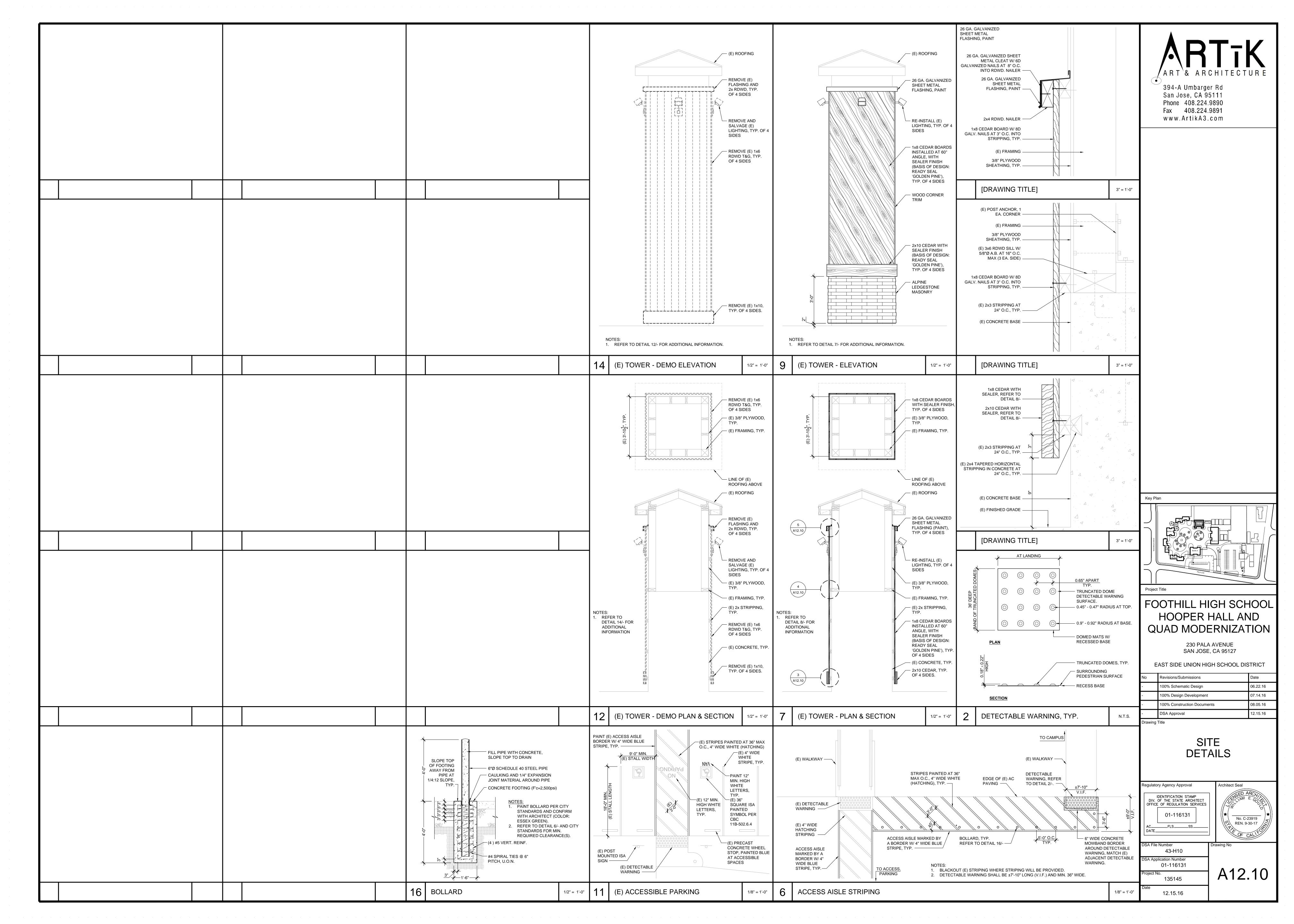


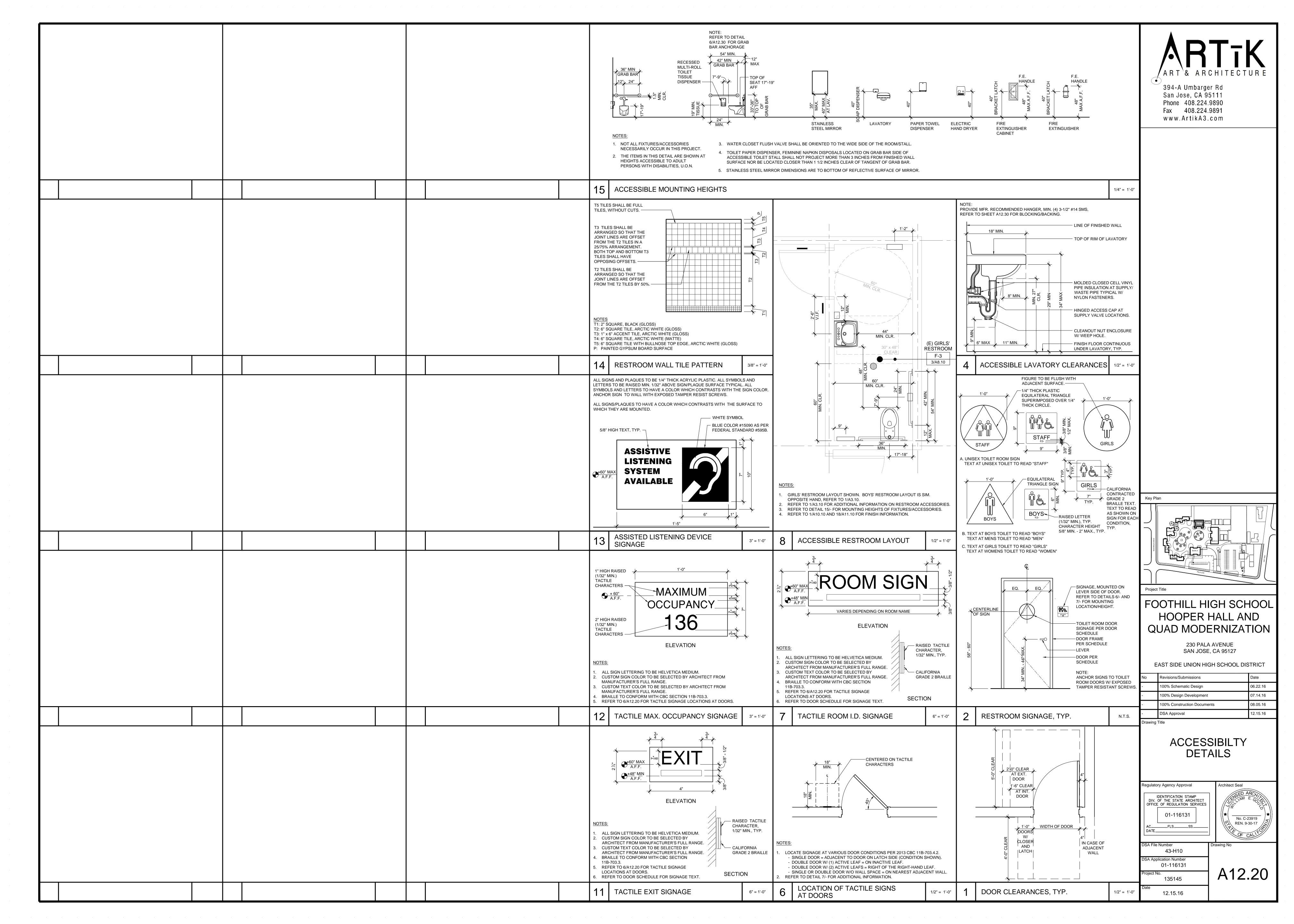


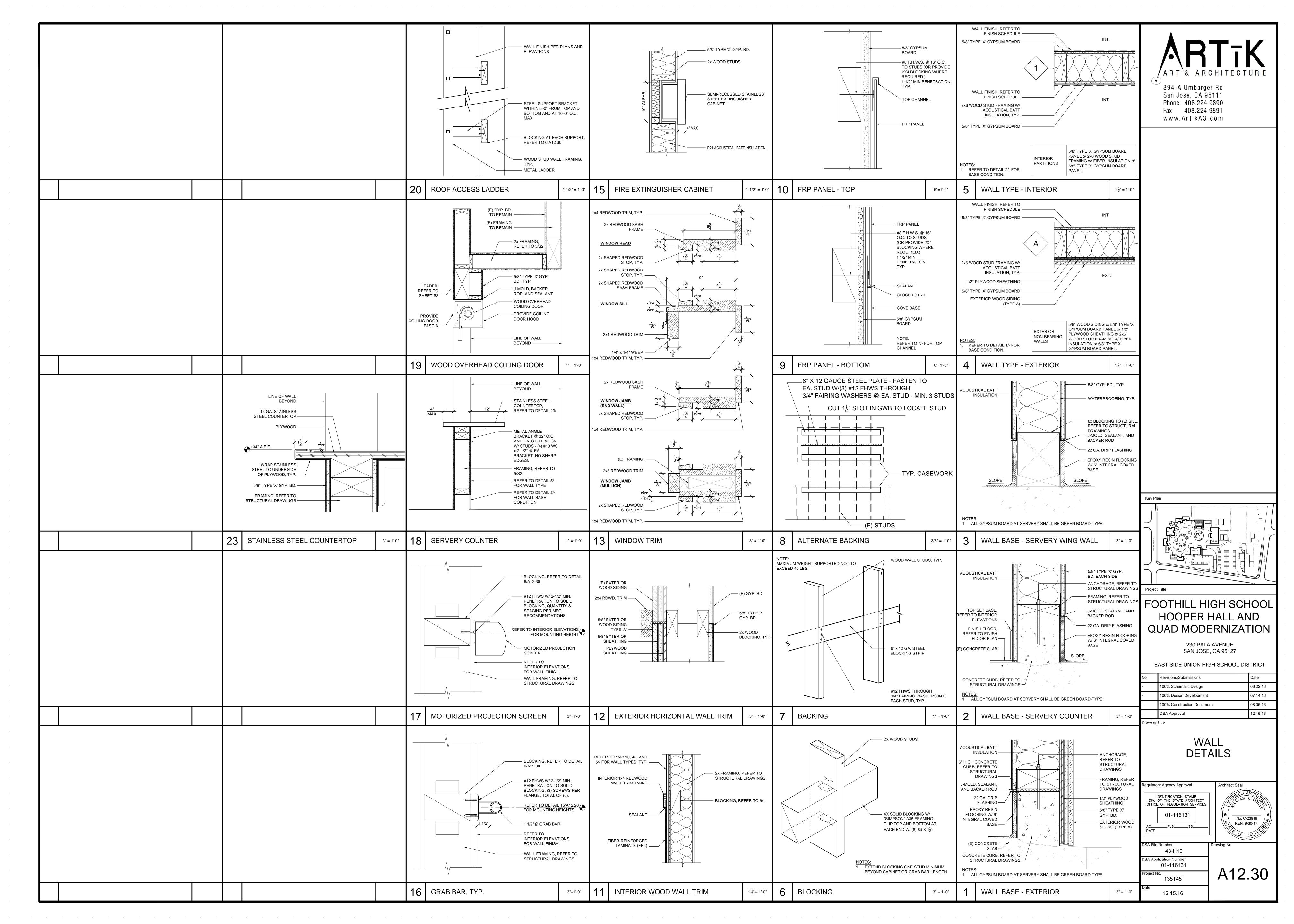


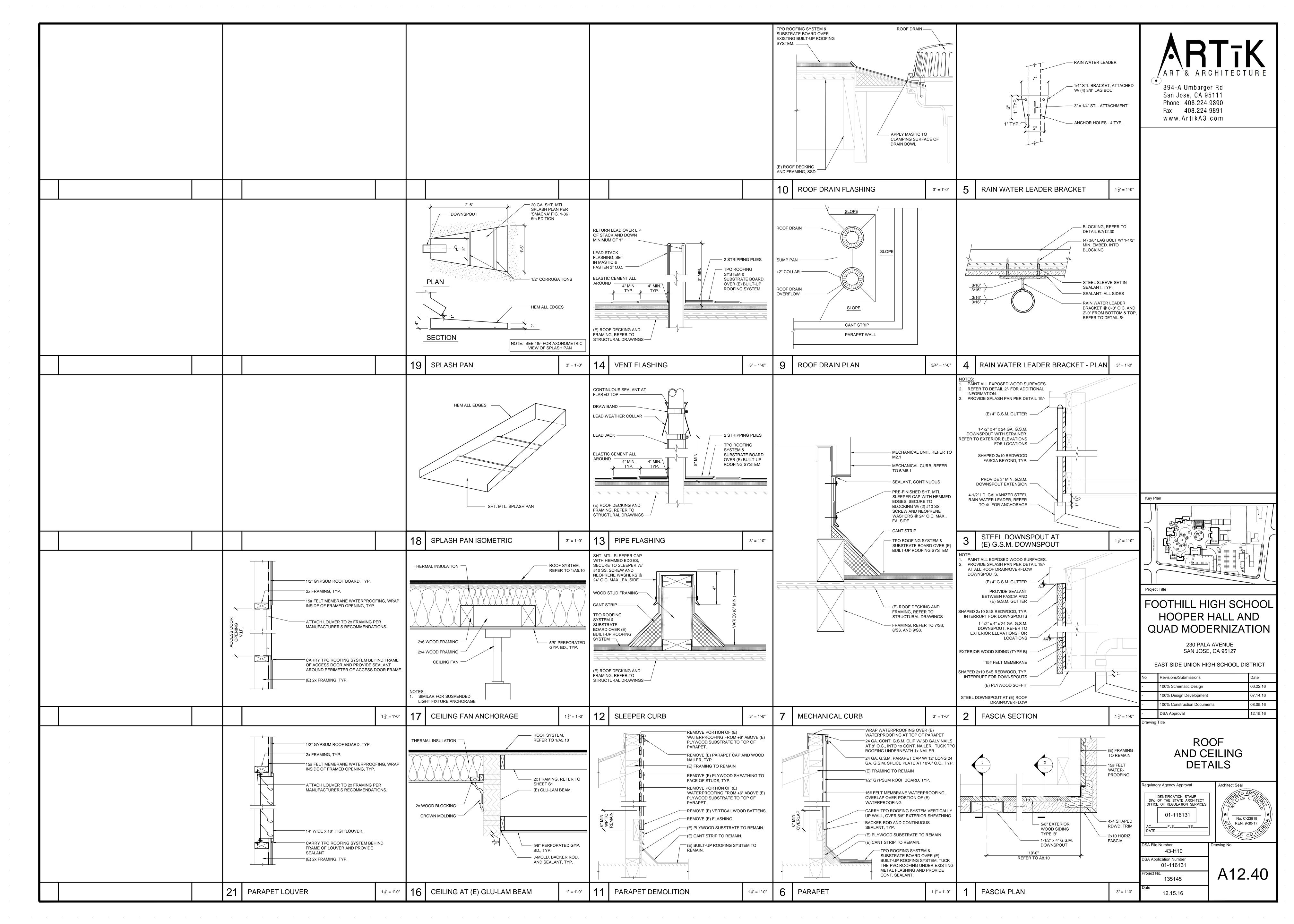


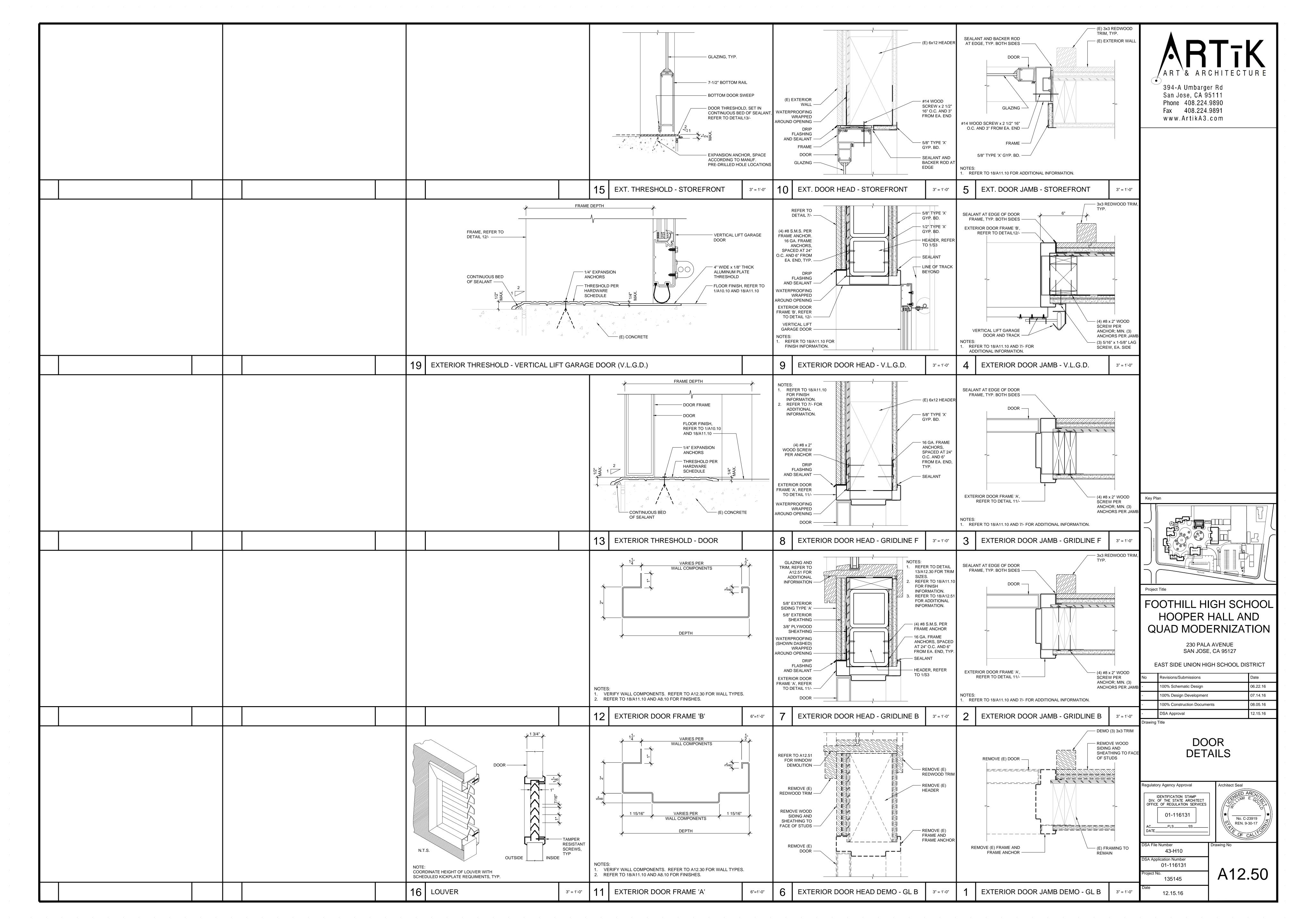


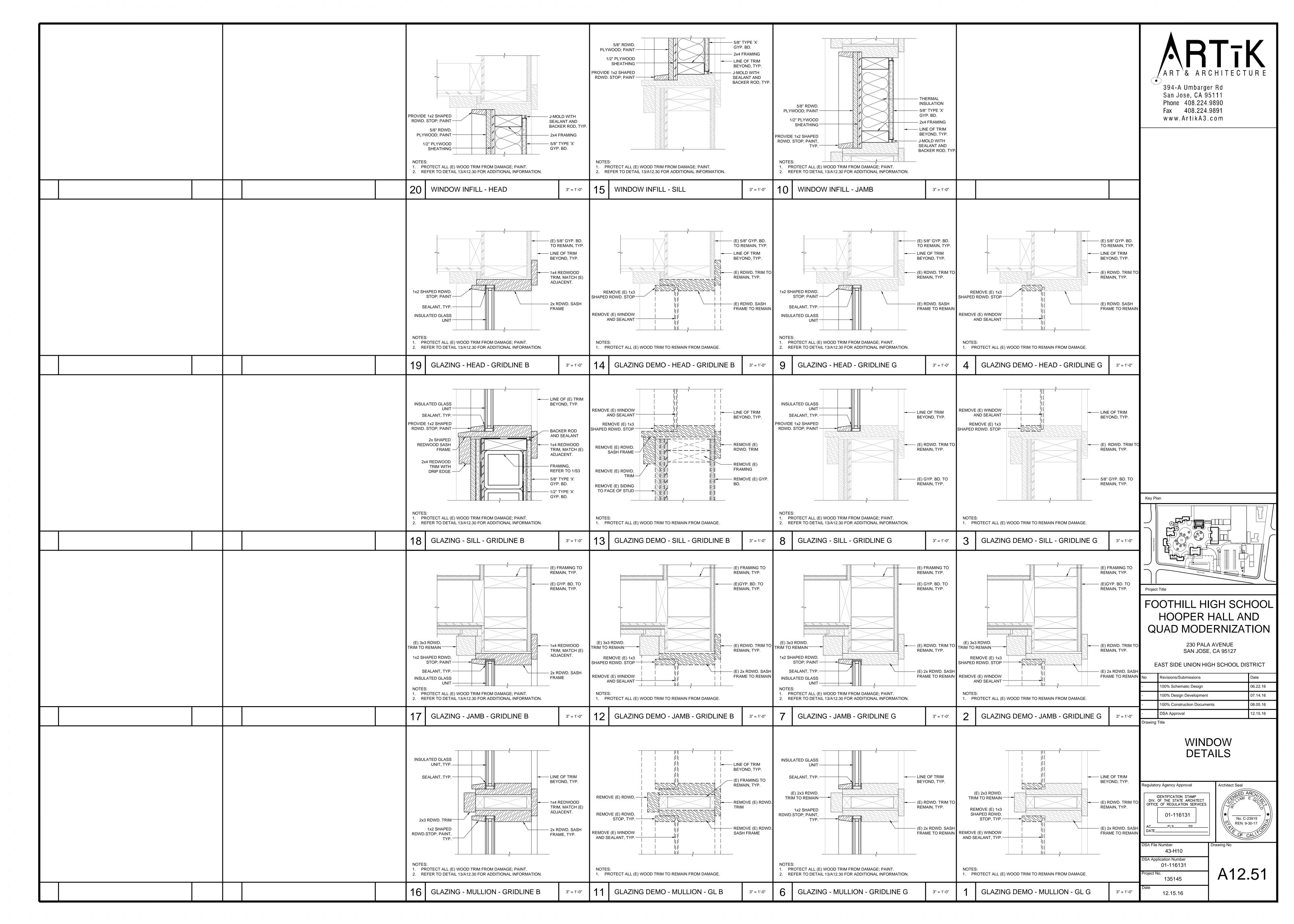












STRUCTURAL SPECIFICATIONS

SHEATHING

ALL SHEATHING SHALL CONFORM TO U.S. PRODUCT STANDARD PS 1, AMERICAN PLYWOOD ASSOCIATION. EACH SHEET SHALL BE STAMPED WITH THE PS AND/OR APA GRADEMARK.

ROOF SHEATHING

SHALL BE MINIMUM 1/2" OSB OR 4 PLY INTERIOR TYPE RATED SHEATHING, STRUCTURAL 1 C-D GRADE WITH EXTERIOR GLUE (CDX-EXPOSURE 1), SPAN RATING 32/16, SPECIES GROUP 1.

WALL SHEATHING

- SHALL BE MINIMUM 1/2" OSB OR 4 PLY INTERIOR TYPE RATED SHEATHING, STRUCTURAL 1 C-D GRADE WITH EXTERIOR GLUE (CDX-EXPOSURE 1), SPAN RATING 32/16, SPECIES GROUP 1.

ALL SHEATHING PERMANENTLY EXPOSED TO WEATHER SHALL BE EXTERIOR TYPE SHEATHING VS. INTERIOR TYPE SHEATHING AS REFERENCED ABOVE.

FRAMING

DOUGLAS FIR COAST REGION, CONFORMING TO WEST COAST LUMBER INSPECTION BUREAU STANDARD GRADING AND DRESSING RULE NO. 17 AS AMENDED TO DATE.

- 1. 2x, 3x, PLATES, JOISTS, AND PURLINS NO.2 (900F-b), PARA. 123-a.
- 2. 4x, PURLINS, LEDGERS, AND BEAMS, NO.1 (1000F-b), PARA. 123-b.
- 3. 6x BEAMS, DENSE NO.1 (1550F-b), PARA. 130-bb.
- 4. 4x4 POSTS, NO.1 (1500F-c), PARA. 124-b.
- 5. 4x6 POSTS, NO.1 (1500F-c), PARA. 123-b.
- 6. 6x6 AND LARGER POSTS, DENSE NO.1 (1200F-c), PARA. 131-bb.
- 7. 2x4, 3x4, STUDS BLOCKING, CONSTRUCTION GRADE, (1000F-b), PARA. 122-b. 8. 2x6 OR LARGER STUDS AND BLOCKING NO.1 (1000F-b), PARA. 123-b.
- 9. FOUNDATION PLATES: SBX/DOT OR ZINC BORATE PRESSURE TREATED DOUGLAS FIR.

ALL FRAMING LUMBER 6" OR LARGER IN THE LEAST DIMENSION SHALL BE F.O.H.C.

LIGHT GAGE METAL CONNECTORS

ALL LIGHT GAGE METAL CONNECTORS SHALL BE SIMPSON COMPANY STRONG TIE CONNECTORS, UNLESS NOTED OTHERWISE ON THE DRAWINGS.

CONCRETE

ALL CONCRETE SHALL HAVE A MINIMUM 28 DAY COMPRESSIVE STRENGTH OF 3000 PSI AND ADDITIONAL REQUIREMENTS AS FOLLOWS:

- MAXIMUM FLY ASH CONTENT: 15 PERCENT (AS PERCENTAGE REPLACEMENT OF CEMENT).
- DO NOT USE AIR ENTRAINMENT ADDITIVES.
- USE OF WATER-REDUCING ADMIXTURE IS REQUIRED.
- MAXIMUM SLAG CEMENT: 25 PERCENT (AS PERCENTAGE OF CEMENT).
- ALL CONCRETE SHALL HAVE PROPERTIES AS LISTED BELOW.

APPROXIMATELY 3 OUNCES PER SACK OF CEMENT OF POZZOLITH 300R OR APPROVED EQUAL SHALL BE USED AS A WATER DISPERSING ADDITIVE.

CONCRETE ELEMENT	MIN. 28 DAY COMPRESSIVE STRENGTH	MAX. SIZE AGGREGATE (INCHES)	MAX. SUMP	MAX. WATER/ CEMENT RATIO	DENSI (PCF
FOOTINGS	3000	3/4	4	0.45	145
YARD CONCRETE, WALKS, AND CURBS	2500	3/4	4	0.60	145

REINFORCING STEEL

BARS FOR REINFORCING SHALL BE GRADE 60 DEFORMED BARS CONFORMING TO ASTM A-615 INCLUDING SUPPLEMENT S1. LAP SPLICES SHALL BE IN ACCORDANCE WITH ACI 318 UNLESS NOTED OTHERWISE ON THE PLANS.

SLAB MEMBRANE - MOISTOP ULTRA BY FORTIFIBER OR EQUAL, 20 MIL. MINIMUM.

EXPANSION ANCHORS

SHALL BE HILTI KWIK BOLT TZ (ESR-1917) OR EQUAL TESTING AT INSTALLATION ARE AS FOLLOWS:

ANCHOR Ø	MIN. EMB.	TEST TORQUE
3/8" ø	2"	25 FT-LBS
1/2" ø	3–1/4"	40 FT-LBS
5/8" ø	4"	60 FT-LBS

ADHESIVE ANCHORING FOR CONCRETE

EPOXY ADHESIVE SHALL BE SIMPSON SET-XP EPOXY ADHESIVE ICC REPORT ESR-2508. THE PROPORTIONS SHALL BE AS RECOMMENDED BY THE MANUFACTURER FOR THE CONDITION AND USE. PREPARATION OF CONCRETE INCLUDING DRILLING OF HOLES FOR ANCHORS AS WELL AS EPOXY ANCHOR INSTALLATION SHALL BE AS RECOMMENDED BY THE MANUFACTURER.

STRUCTURAL STEEL AND MISCELLANEOUS IRON

ALL STRUCTURAL STEEL AND MISCELLANEOUS IRON SHALL RECEIVE SHOP PRIME COAT. INDIVIDUAL SPECIFICATIONS ARE AS FOLLOWS.

1.) HOLLOW STRUCTURAL STEEL AND TUBE STEEL - ASTM A500, GRADE B, Fy = 46ksi .) <u>MISCELLANEOUS IRON</u> — ASTM A36M Fy = 36ksi

MACHINE BOLTS, ANCHOR BOLTS AND STUDS ASTM A307

ALL WELDING SHALL BE PERFORMED BY CERTIFIED WELDERS PER AWS "STANDARD QUALIFICATION PROCEDURE" TO PERFORM THE TYPE OF WORK REQUIRED. ALL WELDING SHALL BE IN ACCORDANCE WITH AWS WELDING CODE. ARC WELDING ELECTRODES SHALL BE E70 SERIES. WELDING SHALL BE INSPECTED AS REQUIRED BY THE CALIFORNIA BUILDING CODE.

SHOP DRAWINGS FOR THE ENGINEERS REVIEW WILL BE REQUIRED AS FOLLOWS:

MIX DESIGNS; STRUCTURAL STEEL AND MISCELLANEOUS METALS;

CONTRACTOR SHALL SUBMIT THREE SETS OF PRINTS FOR REVIEW. FABRICATION SHALL NOT PROCEED UNTIL SHOP DRAWINGS HAVE BEEN REVIEWED BY THE ENGINEER.

CONSTRUCTION LIABILITY

CONSTRUCTION CONTRACTOR AND HIS SUBCONTRACTORS AGREE THAT IN ACCORDANCE WITH GENERALLY ACCEPTED CONSTRUCTION PRACTICES, CONSTRUCTION CONTRACTOR AND HIS SUBCONTRACTORS WILL BE REQUIRED TO ASSUME SOLE AND COMPLETE RESPONSIBILITY FOR JOB SITE CONDITIONS DURING THE COURSE OF CONSTRUCTION OF THE PROJECT, INCLUDING SAFETY OF ALL PERSONS AND PROPERTY: THAT THIS REQUIREMENT SHALL BE MADE TO APPLY CONTINUOUSLY AND NOT LIMITED TO NORMAL WORKING HOURS, AND CONSTRUCTION CONTRACTOR AND HIS SUBCONTRACTORS FURTHER AGREE TO DEFEND, INDEMNIFY AND HOLD DESIGN PROFESSIONAL HARMLESS FROM ANY AND ALL LIABILITY, REAL OR ALLEGED, IN CONNECTION WITH THE PERFORMANCE OF WORK ON THIS PROJECT, EXCEPT LIABILITY ARISING FROM THE SOLE NEGLIGENCE OF DESIGN PROFESSIONAL.

EXISTING CONDITIONS

THE CONTRACTOR OR SUBCONTRACTOR SHALL FIELD VERIFY ALL EXISTING CONDITIONS PRIOR TO BEGINNING CONSTRUCTION AND OR ORDERING MATERIAL, ANY DISCREPANCIES DISCOVERED SHALL BE BROUGHT TO THE ATTENTION OF THE ENGINEER IMMEDIATELY.

SPECIAL INSPECTIONS

THE OWNER SHALL EMPLOY A SPECIAL INSPECTOR DURING CONSTRUCTION ON THE FOLLOWING TYPES OF WORK: CONCRETE

- DURING THE TAKING OF TEST SPECIMENS AND PLACING OF ALL REINFORCED CONCRETE AND PNEUMATICALLY PLACED CONCRETE.

EXCEPTIONS: CONCRETE FOR SLABS ON GRADE.

2. SITE CONCRETE FULLY—SUPPORTED ON EARTH.

REINFORCING STEEL PERIODICALLY, DURING THE PLACING OF REINFORCING STEEL FOR ALL CONCRETE REQUIRED TO HAVE SPECIAL

WELDING DUCTILE MOMENT-RESISTING STEEL FRAMES. AS REQUIRED BY THE APPLICABLE SECTION OF THE 2013 C.B.C.

- ALL STRUCTURAL WELDING, INCLUDING WELDING OF REINFORCING STEEL.
- **EXCEPTIONS:**
- 2. SINGLE PASS FILLET WELDS MAY HAVE PERIODIC INSPECTION PER C.B.C. NOTED OTHERWISE

1. WELDING DONE IN A FABRICATOR'S SHOP, APPROVED BY THE CITY BUILDING OFFICIAL.

UNLESS ON THE CONTRACT DRAWINGS.

ADHESIVE ANCHORS

DURING ALL ADHESIVE ANCHORING INSTALLATIONS.

SPECIAL INSPECTOR

 THE SPECIAL INSPECTOR SHALL BE A QUALIFIED PERSON WHO SHALL DEMONSTRATE HIS COMPETENCE, TO THE SATISFACTION OF THE BUILDING OFFICIAL, FOR INSPECTION OF A PARTICULAR TYPE OF CONSTRUCTION OR OPERATION REQUIRING SPECIAL INSPECTION.

DUTIES AND RESPONSIBILITIES OF THE SPECIAL INSPECTOR

- THE SPECIAL INSPECTOR SHALL OBSERVE THE WORK ASSIGNED FOR CONFORMANCE WITH THE APPLICABLE DESIGN DRAWINGS AND SPECIFICATIONS.
- THE SPECIAL INSPECTOR SHALL FURNISH INSPECTION REPORTS TO THE BUILDING OFFICIAL. THE ENGINEER OR ARCHITECT OF RECORD, AND OTHER DESIGNATED PERSONS. ALL DISCREPANCIES SHALL BE BROUGHT TO THE IMMEDIATE ATTENTION OF THE CONTRACTOR FOR CORRECTION, THEN, IF UNCORRECTED, THE PROPER DESIGN AUTHORITY AND TO THE BUILDING OFFICIAL.
- THE SPECIAL INSPECTOR SHALL SUBMIT A FINAL SIGNED REPORT STATING WHETHER THE WORK REQUIRING SPECIAL INSPECTION WAS, TO THE BEST OF HIS KNOWLEDGE, IN CONFORMANCE WITH THE APPROVED PLANS AND SPECIFICATIONS AND THE APPLICABLE WORKMANSHIP PROVISION OF THIS CODE.

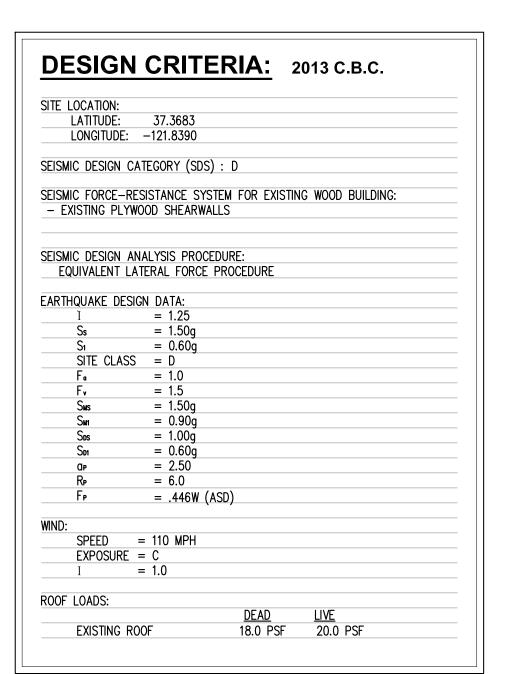
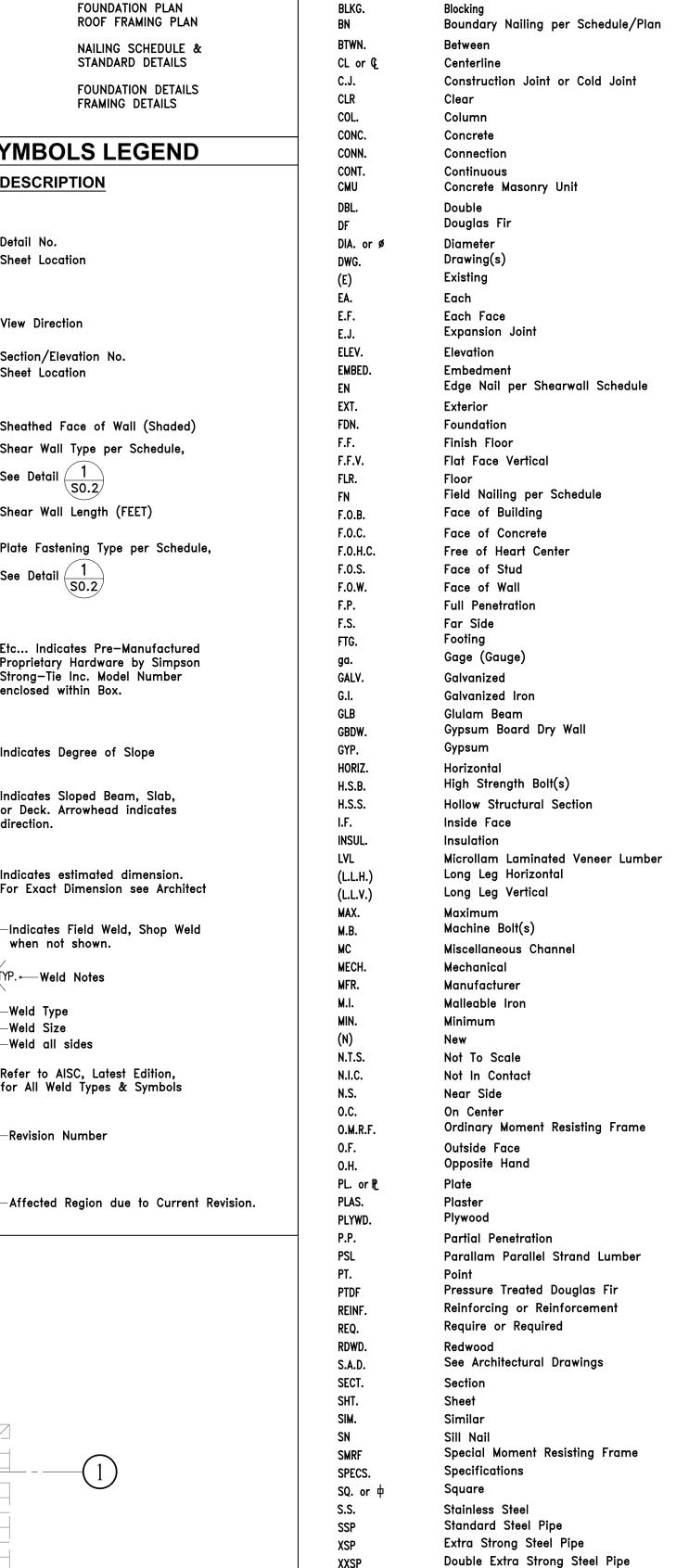


TABLE OF CONTENTS CONTENT SHEET STRUCTURAL SPECIFICATIONS ABBREVIATIONS LEGEND SYMBOLS LEGEND TABLE OF CONTENTS FOUNDATION PLAN ROOF FRAMING PLAN NAILING SCHEDULE & STANDARD DETAILS FOUNDATION DETAILS FRAMING DETAILS SYMBOLS LEGEND SYMBOL DESCRIPTION — Detail No. —Sheet Location — View Direction - Section/Elevation No. —Sheet Location Sheathed Face of Wall (Shaded) -Shear Wall Length (FEET) -Plate Fastening Type per Schedule, HD Etc... Indicates Pre-Manufactured Proprietary Hardware by Simpson Strong-Tie Inc. Model Number enclosed within Box. -Indicates Degree of Slope Indicates Sloped Beam, Slab, or Deck. Arrowhead indicates direction 6'-0"±← Indicates estimated dimension. For Exact Dimension see Architect Indicates Field Weld, Shop Weld when not shown. -Weld Size Weld all sides Refer to AISC, Latest Edition, for All Weld Types & Symbols



XXSP

STAGG

STD.

STIFF.

T.O.C.

T.O.P.

T.O.S.

TYP.

U.N.O.

VERT.

V.I.F. or

Top and Bottom

Top of Plywood

Top of Steel

Verify In Field

Tube Steel

Tongue and Groove

Unless Noted Otherwise

Top of Concrete or Top of Curb

ABBREVIATIONS

Architect or Architectual

Anchor bolt

Aluminum

A.B.

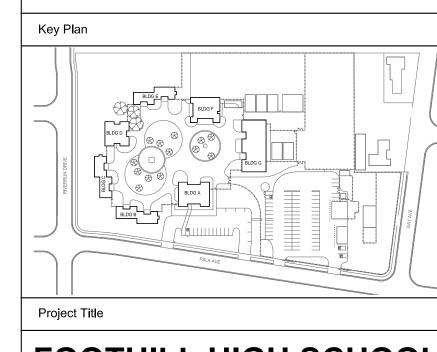
ALUM.

ARCH.

BLK.







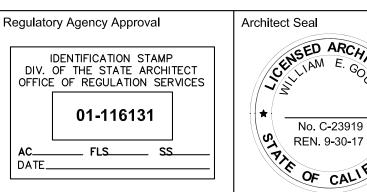
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FOUNDATION PLAN ROOF FRAMING PLAN



DSA File Number 43-H10 DSA Application Number 01-116131

135145

12.15.16

S1

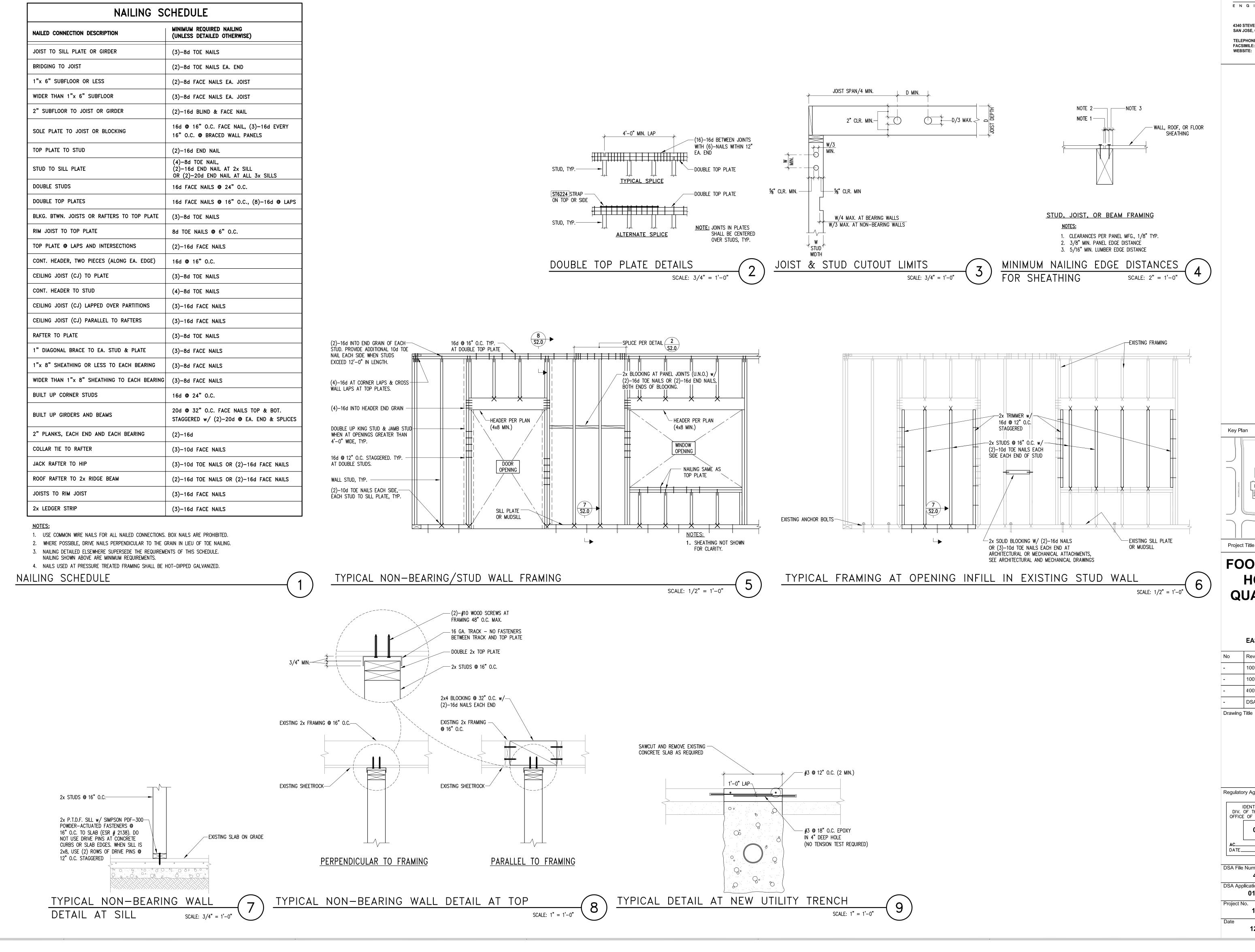
ROOF FRAMING PLAN

G **←** (E) 6x10 AC-1 (2200# MAX.) -4x6 POST SEE $\left(\frac{3}{53}\right)$ 4x6 POST SEE 6 SHORE EXISTING ROOF PRIOR TO DEMOLISHING EXISTING 2 \$3 BEARING WALL BELOW . (E) 4" CONC. SLAB w/ 6x6 W.W.F #10−10 | -4x6 w/ SIMPSON HU46 HANGER EA. END -4x6 POST SEE $\frac{3}{53}$ 4x6 POST SEE 6 -(E) 2x6 ROOF JOISTS @ 16" O.C. (N) NON-BEARING WALL SEE $\begin{pmatrix} 5 \\ S2 \end{pmatrix}$ —(N) NON-BEARING WALL SEE (S2) | (E) WALL TO BE REMOVED-(E) 4x10 INFILL EXISTING OPENING--(E) PLYWOOD SHEATHING AS REQUIRED FOR NEW DOOR, PER 6 (E) 63/4" x 221/2" GLB (15/8" CAMBER) - INFILL EXISTING OPENING AS REQUIRED FOR NEW -(E) 2x10 ROOF JOISTS DOOR, PER $\frac{6}{S2}$ @ 16" O.C., TYP. U.N.O.

FOUNDATION PLAN

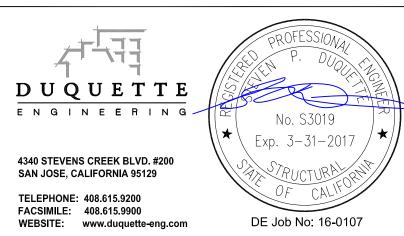
SCALE: 1/8" = 1'-0"

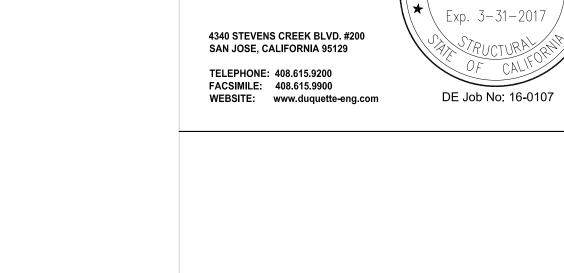
SCALE: 1/8" = 1'-0"

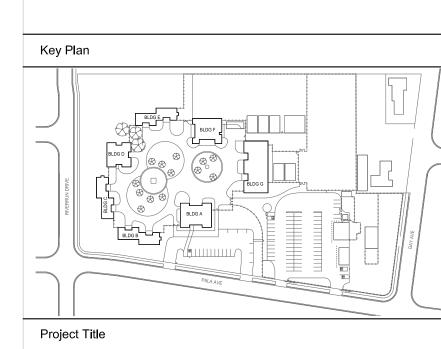


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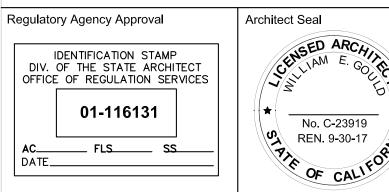
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NAILING SCHEDULE STANDARD DETAILS



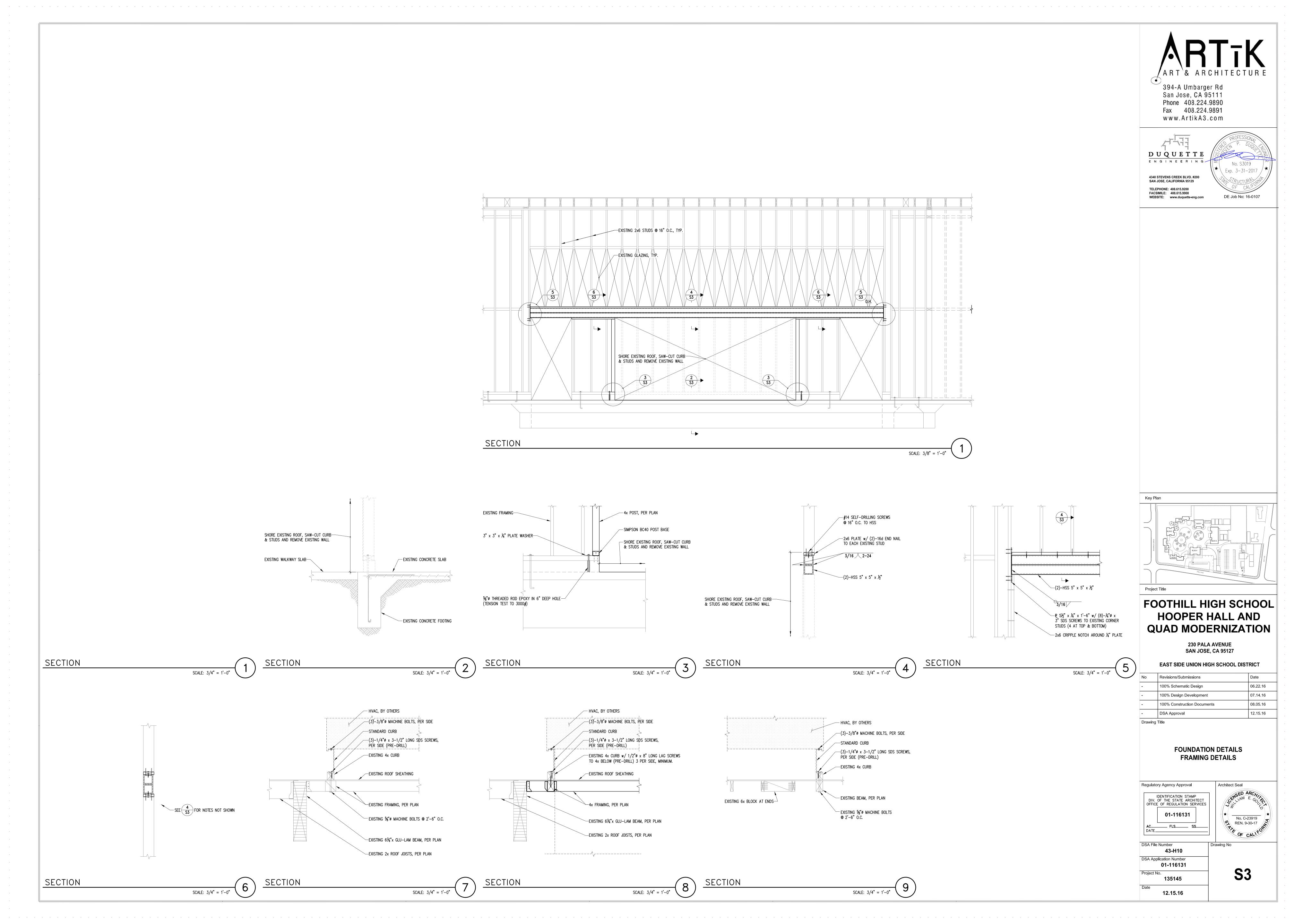
DSA File Number
43-H10

DSA Application Number
01-116131

135145

12.15.16

S2



12. DEMOLITION WORK SHALL BE PROVIDED AS REQUIRED TO ACCOMPLISHED NEW WORK CALLED FOR AND AS NOTED. WORK SHALL BE PERFORMED CAREFULLY TO AVOID DAMAGE TO SURFACES, STRUCTURES, AND EQUIPMENT NOT BEING REMOVED. EXISTING EQUIPMENT AND/OR ELECTRICAL WIRING WHICH IS TO REMAIN. BUT HAS BEEN REMOVED TO FACILITATE THE INSTALLATION OF THE NEW EQUIPMENT, SHALL BE RESTORED TO ITS ORIGINAL OPERATING CONDITION.

13. THE CONTRACTOR SHALL REMOVE ALL ELECTRICAL ITEMS IN OR ON WALLS. CEILINGS AND FLOORS WHICH WILL BE REMOVED FOR THE RENOVATION WORK OF THIS PROJECT. DISCONNECT COMPLETELY BEFORE START OF REMOVAL.

14. WHERE OUTLETS ARE REMOVED AND/OR CONDUIT IS CUT OFF, ALL EXISTING CONDUCTORS SHALL BE REMOVED BACK TO THE NEXT OUTLET, JUNCTION BOX OR PANEL.

15. EXISTING CONDUCTORS REMOVED FROM SERVICE SHALL NOT BE PERMITTED TO BE USED FOR NEW WORK UNDER THIS CONTRACT.

16. EXISTING CONDUIT RUNS REMAINING IN PLACE MAY BE UTILIZED FOR THE RENOVATION WORK, PROVIDED THAT THE CONDUIT IS OF ADEQUATE SIZE PER C.E.C. FOR THE NUMBER AND SIZE OF CONDUCTORS BEING INSTALLED.

17. BLANK COVERS SHALL BE INSTALLED WHEREVER DEVICE IS REMOVED AND OUTLET BOX REMAINS IN PLACE.

18. AN EXISTING ELECTRICAL ITEM REMAINING IN SERVICE WHICH HAS ITS EXISTING SUPPLY CIRCUIT INTERRUPTED BY DEMOLITION WORK PERFORMED UNDER THIS CONTRACT, SHALL NOT BE RECONNECTED TO A SOURCE WHICH COULD BE OVERLOADED BY THE ADDITION OF THIS

19. WHERE EXISTING CONDUIT AND/OR CIRCUIT HAS BEEN INTERRUPTED BY REMOVAL OF AN OUTLET(S), WALL, OR PORTION OF THE CIRCUIT, THE REMAINING CONDUIT AND/OR CIRCUIT SHALL BE REROUTED, EXTENDED AND RECONNECTED AS REQUIRED TO PROVIDED CONTINUITY FOR THE CIRCUIT THAT IS TO REMAIN IN SERVICE.

20. UNLESS OTHERWISE INDICATED, THE MINIMUM SIZE OF CONDUCTORS SHALL BE 12 AWG THWN STRANDED COPPER ONLY.

21. ALL WIRES SHALL BE IN CONDUIT, UNLESS OTHERWISE INDICATED, THE MINIMUM SIZE OF CONDUIT SHALL BE 3/4".

22. GREEN INSULATED GROUND CONDUCTORS SHALL BE INSTALLED IN ALL FEEDER AND BRANCH CIRCUIT WIRING.

GENERAL NOTES (CONTINUATION)

23. PROVIDE LABELS ON ALL EQUIPMENT AND DEVICES. LABELS SHALL BE SELF—ADHESIVE PHENOLIC TYPE AND WHITE LETTER ON BLACK BACKGROUND, PROVIDE BRADY OR DYMO TYPE LABELS (CIRCUIT IDENTIFICATION) FOR ALL SWITCHES AND RECEPTACLES.

24. THE CONTRACTOR SHALL PROVIDE TYPEWRITTEN DIRECTORIES FOR ALL ELECTRICAL PANELS INVOLVED IN THIS PROJECT. THE PANEL DIRECTORIES SHALL REFLECT THE AS-BUILT CIRCUITS. ONE COPY OF THE SCHEDULE SHALL BE TAPED TO THE INSIDE OF THE PANEL DOOR. AND ONE COPY SHALL BE SUBMITTED TO THE ENGINEER AS AN "AS-BUILT" DRAWING.

25. ALL ELECTRICAL EQUIPMENT SHALL BE BRACED OR ANCHORED TO RESIST A HORIZONTAL FORCE ACTING IN ANY DIRECTION PER CBC REQUIREMENTS.

26. CERTAIN REMODELING OF ELECTRICAL FACILITIES WILL BE REQUIRED IN THE EXISTING BUILDING. THE DRAWINGS SHOWING LOCATION OF EQUIPMENT IN EXISTING AREAS ARE APPROXIMATE ONLY. THE CONTRACTOR SHALL CONCEAL ALL WORK; IF THIS NOT POSSIBLE, SURFACE RACEWAY SUCH AS WIREMOLD SHALL BE USED ONLY WITH THE APPROVAL OF THE ARCHITECT AND OWNER.

27. EXISTING ELECTRICAL WIRING WHICH WILL NOT BECOME OBSOLETE AND WHICH WILL BE DISTURBED DUE TO CONSTRUCTION CHANGES REQUIRED BY THIS CONTRACT SHALL BE RESTORED TO OPERATING CONDITION, OR AS REQUIRED AND, OR DIRECTED, WHERE REQUIRED, SHOWN AND/OR DIRECTED, OUTLETS AND CONDUIT RUNS SHALL BE RELOCATED. IN SOME CASES IT MAY BE NECESSARY TO EXTEND CONDUITS AND PULL IN NEW WIRING OR INSTALL JUNCTION BOXES AND SPLICE IN NEW WIRING OR REPLACE OLD WIRING WITH NEW.

28. THE CONTRACTOR SHALL EMPLOY QUALIFIED AND EXPERIENCED WORKMEN FOR THIS WORK ALL RESTORATION WORK SHALL BE SUBJECT TO THE APPROVAL OF THE ARCHITECT AND/OR OWNER AND IOR.

29. WHERE EXISTING CONDUIT IS TO BE ABANDONED, THE CONDUIT SHALL BE REMOVED IF IT IS EXPOSED, IN A CRAWL SPACE OR IN ACCESSIBLE CEILING. WHERE IT IS IMPOSSIBLE TO REMOVE THE CONDUIT, IT SHALL BE CUT OFF AND CAPPED OR PLUGGED FLUSH WITH THE SURFACE.

30. THE CONTRACTOR SHALL BE HELD FULLY RESPONSIBLE FOR THE PROPER RESTORATION OF ALL EXISTING SURFACES REQUIRING PATCHING, PLASTERING PAINTING AND/OR OTHER REPAIRS DUE TO THE INSTALLATION OF ELECTRICAL WORK UNDER THE TERMS OF THIS SPECIFICATION. CLOSE ALL OPENINGS, REPAIR ALL SURFACES, ETC., AS REQUIRED. THIS SHALL INCLUDE ALL WALLS, CEILINGS, ROOFS, PAVEMENT, PLANTERS, ETC.

31. WHERE CONDUIT IS ROUTED ON ROOF STRUCTURES, PROVIDE SUPPORT AT 10'-0" O.C. MAXIMUM. CONDUIT ROUTED BETWEEN BUILDINGS WITH OPEN SPACE SHALL BE WITH LIQUID TIGHT FLEXIBLE CONDUIT.

32. ALL EXPOSED CONDUIT BELOW 7'-0" SHALL BE RSC AND ALL EXPOSED HARDWARE SHALL BE "HOT DIPPED" GALVANIZED. ALL INTERIOR CONDUITS MAY BE EMT. UNLESS OTHERWISE NOTED. WHEN CONDUIT IS ROUTED EXPOSED OR UNDERGROUND AND TERMINALLS IN AC EQUIPMENT, PROVIDE A TRANSITION OF LIQUIDTIGHT FLEXIBLE CONDUIT.

33. OUTLETS MOUNTED ON WALL BACK TO BACK SHALL MAINTAIN A MINIMUM HORIZONTAL DISTANCE OF 24" OR BE SEPARATED BY A STUD AND SHALL COMPLY WITH APPLICABLE CODES. REGULATIONS ON FIRE RATING(S) AND MAY REQUIRE ADDITIONAL MEASURES, INCLUDING PUDDY PACKS OR EQUIVALENT AT DEVICES, FITTINGS OR JUNCTION BOXES, ETC. PER IOR AND/OR ARCHITECT AND HAVE FINAL DECISION.

34. WHERE SURFACE WIRING IS CALLED FOR IN A FINISHED AREA, SURFACE TYPE RACEWAY SYSTEM SHALL BE INSTALLED COMPLETE WITH ALL PROPER FITTINGS, ADAPTERS, OUTLETS, DEVICES COVERS, END CAPS, ETC. AS MANUFACTURED BY WIREMOLD OR AN APPROVED EQUAL AND SHALL BE PAINTED TO MATCH COLOR OF ADJACENT WALL OR CEILING. ALL EXPOSED CONDUITS. BOXES AND CABINETS SHALL ALSO BE PAINTED TO MATCH COLOR OF ADJACENT WALL OR CEILING.

35. SURFACE TYPE RACEWAY SYSTEM SHALL BE INSTALLED PARALLEL TO, OR AT RIGHT ANGLES TO BUILDING LINES AND ROUTE AROUND SURFACE MOUNTED ITEMS. SUCH AS TACK BOARDS. ETC.

36. GENERALLY, HORIZONTAL RUNS SHALL BE INSTALLED ON THE CORNER BELOW CEILING LINE AS APPROVED BY THE ENGINEER.

37. UPON COMPLETION OF CONSTRUCTION, PAINT ALL EXPOSED ELECTRICAL CONDUITS, DEVICES AND BOXES. PAINT COLOR SHALL MATCH THE EXISTING SURFACES.

38. THE CONTRACTOR SHALL MAINTAIN AT THE JOB SITE, AN UP TO DATE "AS BUILT" DRAWING SET. THE "AS BUILT" DRAWING SET SHALL REFLECT ALL APPROVED CHANGES TO THE DESIGN DRAWINGS. THE "AS BUILT" DRAWING SET SHALL BE KEPT CLEAN AND IN GOOD CONDITION AND SHALL BE TURNED OVER TO THE OWNER AT THE COMPLETION OF THE PROJECT. THESE DRAWINGS SHALL BE UPDATED DAILY AND BE CHECKED WEEKLY BY IOR. THE PROGRESS PAYMENT IS TIED TO THEIR COMPLETION.

39. UPON COMPLETION OF THE WORK, THE CONTRACTOR SHALL SCHEDULE AND PERFORM A COMPLETE FUNCTIONAL TEST IN THE PRESENCE OF DSA IOR TO DEMONSTRATE TO THE OWNER THAT THE NEW INSTALLATION IS OPERATING AS INTENDED TEST RESULTS SHALL BE SENT TO DISTRICT FOR IOR AND AOR. ANY DEFECTS OR DEFICIENCIES IN THE MATERIALS OR WORK SHALL BE CORRECTED IMMEDIATELY BY AND AT THE CONTRACTOR'S EXPENSE.

— CONDUIT AND CONDUCTORS CONCEALS IN WALL OR CEILING

---- CONDUIT AND WIRES CONCEALED IN FLOOR OR UNDERGROUND

————— CONDUIT STUBBED OUT IN ACCESSIBLE LOCATION

THAN (3); (1) INDICATES GROUND.

SURFACE MOUNTED ELECTRICAL PANELBOARD, 277/480V

SURFACE MOUNTED ELECTRICAL PANELBOARD, 120/208V

RECESSED MOUNTED ELECTRICAL PANELBOARD, 120/208V HASHMARK INDICATES EXISTING ELECTRICAL ITEM TO BE DISCONNECTED AND REMOVED INCLUDING WIRES AND CONDUIT UP TO THE NEXT JUNCTION BOX

LEGEND

, , o LIGHT FIXTURE WITH JUNCTION BOX

WHICH IS TO REMAIN.

DUPLEX RECEPTACLE NEMA 5-20R, 20 AMP, 120V, +18" A.F.F U.O.N.

TYPE "B" FLUSH MOUNTED STANDARD HEIGHT - (2) BLUE CAT6 CABLES

TYPE "C" FLUSH MOUNTED WALL PHONE PLATE ADA HEIGHT.

TYPE "D" WIRELESS ACCESS POINT - (2) GREEN CAT6 CABLES

INTRUSION ALARM MOTION SENSOR — (1) 22 AWG, 4 CONDUCTOR CABLE

INTRUSION ALARM KEY PAD - (1) 22 AWG, 4 CONDUCTOR CABLE

INTRUSION ALARM BELL - (1) 22 AWG, 4 CONDUCTOR CABLE WALL MOUNTED SPEAKER - (1) WHITE CT6 CABLE

NOT 18" AFF - (1) BLUE CAT6

EXTERIOR WALL MOUNTED SPEAKER — (1) WHITE CT6 CABLE

WALL MOUNTED WIRELESS CLOCK

HORSEPOWER RATED MANUAL SWITCH, SQUARE "D" CLASS 2510

PULLBOX, SIZE AS SHOWN ON THE DRAWING

JUNCTION BOX. SIZE PER CODE.

CEILING MOUNTED OCCUPANCY SENSOR, ACUITY NLIGHT CAT #nCM6

CEILING MOUNTED OCCUPANCY SENSOR. ACUITY nLIGHT CAT #nCM9/nCMPDT9

POWER PACK, ACUITY nLIGHT CAT #nPP16D

SUBSCRIPT "a" DENOTES SWITCH LEG

WALL MOUNTED OCCUPANCY SENSOR, ACUITY NLIGHT CAT #NWSXPDTLVDX

ACUITY SENSOR SWITCH CAT #PODM1SB

4-SCENE ACUITY nLIGHT SENSOR SWITCH. CAT #nPODM4SDX.

SHEET NOTE REFERENCE, SEE NOTE 1

DETAIL TAG. REFER TO DETAIL 1 ON SHEET NUMBER E3.1

LIST OF APPLICABLE CODES

2013 CALIFORNIA BUILDING STANDARDS ADMINISTRATIVE CODE (PART 1, TITLE 24, CCR)

2013 CALIFORNIA BUILDING CODE (CBC), VOLUMES 1 & 2 (PART 2, TITLE 24, CCR)

2013 CALIFORNIA ELECTRICAL CODE (PART 3, TITLE 24, CCR)

4. 2013 CALIFORNIA MECHANICAL CODE (PART 4, TITLE 24, CCR)

2013 CALIFORNIA PLUMBING CODE

(PART 5, TITLE 24, CCR)

2013 CALIFORNIA ENERGY CODE (PART 6, TITLE 24, CCR)

2013 CALIFORNIA ELEVATOR SAFETY CONSTRUCTION CODE (PART 7. TITLE 24. CCR)

2013 CALIFORNIA FIRE CODE (PART 9, TITLE 24, CCR)

2013 CALIFORNIA REFERENCE STANDARDS CODE (PART 12, TITLE 24, CCR)

10. NFPA 13, 2013 EDITION, THE INSTALLATION OF AUTOMATIC SPRINKLER SYSTEMS, AS AMENDED

NFPA 14, 2013 EDITION, THE INSTALLATION OF

STANDPIPE, PRIVATE HYDRANT AND HOSE SYSTEMS

12. NFPA 24, 2013 EDITION, THE INSTALLATION OF PRIVATE FIRE SERVICE MAINS AND THEIR APPURTENANCES

NFPA 72, 2013 EDITION, NATIONAL FIRE ALARM CODE, AS AMENDED

DRAWING INDEX

EO.1 GENERAL NOTES, LEGEND, ABBREVIATIONS AND DRAWING INDEX

EO.2 CERTIFICATE OF COMPLIANCE TITLE 24

E0.3 ELECTRICAL SITE PLAN

E1.0 ELECTRICAL DEMOLITION PLAN

E2.1 POWER PLAN

E1.1 LIGHTING PLAN

E2.2 ROOF PLAN

E3.1 SIGNAL PLAN

E3.2 SIGNAL RISER DIAGRAM

E3.3 IT GUIDELINES STANDARD

E4.1 SCHEDULES AND DETAILS

ABBREVIATIONS

A AMP AMPERE O.C. ON CENTER ABOVE FINISHED FLOOR ACCESS POINT PUBLIC ADDRESS PA PHASE PH, Ø PNL PANEL CONDUIT, CLOCK RELOCATED CABLE TELEVISION RECEPTACLE CALIFORNIA BUILDING CODE CCTV CLOSED CIRCUIT TELEVISION SAD SEE ARCHITECTURAL CALIFORNIA ELECTRIC CODE DRAWINGS CONDUIT ONLY WITH PULL ROPE STC SATELLITE TERMINAL CURRICULUM AND PRESENTATION CABINET CLOCK/SPEAKER CABINET TRANSF. TRANSFORMER TELEPHONE BOARD **EXISTING** TERMINAL CAN TGB TELECOMMUNICATIOS GROUNDING GROUND, GUARD TYP **TYPICAL** INTERMEDIATE DISTRIBUTION FRAME IDF UNLESS OTHERWISE MAXIMUM MAIN DISTRIBUTION FRAME MDF VOLT MAIN POINT OF ENTRY MPOE WATT MAIN SIGNAL TELEPHONE CABINET MSTC WIRE GUARD MAIN TELEPHONE BOARD WP **WEATHERPROOF** NEC NATIONAL ELECTRICAL CODE XFMR TRANSFORMER NIGHT LIGHT

MEP COMPONENT ANCHORAGE NOTES: ALL MECHANICAL, PLUMBING AND

ELECTRICAL COMPONENTS SHALL BE ANCHORED AND INSTALLED PER THE DETAILS ON THE DSA APPROVED CONSTRUCTION DOCUMENTS. WHERE NO DETAIL IS INDICATED, THE FOLLOWING COMPONENTS SHALL BE ANCHORED OR BRACED TO MEET THE FORCE AND DISPLACEMENT BRACED TO MEET THE FORCE AND DISPLACEMENT REQUIREMENT PRESCRIBED IN THE 2013 CBC. SECTION 1616A.1.18 THROUGH

NOT TO SCALE

NTS

CHAPTER 13, 26 AND 30. 1. ALL PERMANENT EQUIPMENT

1616A.1.26 AND ASCE 7-10

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.

MOVABLE EQUIPMENT WHICH IS STATIONED IN ONE PLACE FOR MORE THAN 8 HOURS AND HEAVIER THAN 400 POUNDS ARE REQUIRED TO BE ANCHORED WITH TEMPORARY ATTACHMENTS.

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

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 DISTRIBUTION 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 MECHANICAL/ELECTRICAL

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

THE BRACING AND ATTACHMENTS TO THE STRUCTURE SHALL COMPLY WITH ONE OF THE OSHPD PRE-APPROVALS WITH AN OPM #, SUCH AS MASON INDUSTRIES (OPM 349), OR ISAT (OPM 485) AS MODIFIED TO SATISFY ANCHORAGE REQUIREMENTS OF ACI 318. APPENDIX D.

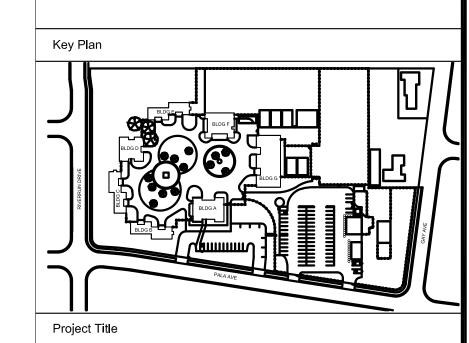
COPIES OF THE MANUAL SHALL BE AVAILABLE ON THE JOBSITE PRIOR TO THE START OF HANGING AND BRACING OF THE PIPE. DUCTWORK, AND ELECTRICAL DISTRIBUTION SYSTEMS.

THE STRUCTURAL ENGINEER OF RECORD SHALL VERIFY THE ADEQUACY OF THE STRUCTURE TO SUPPORT THE HANGER AND BRACE LOADS

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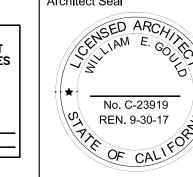
GENERAL NOTES, LEGEND,

ABBREVIATIONS AND

DRAWING INDEX

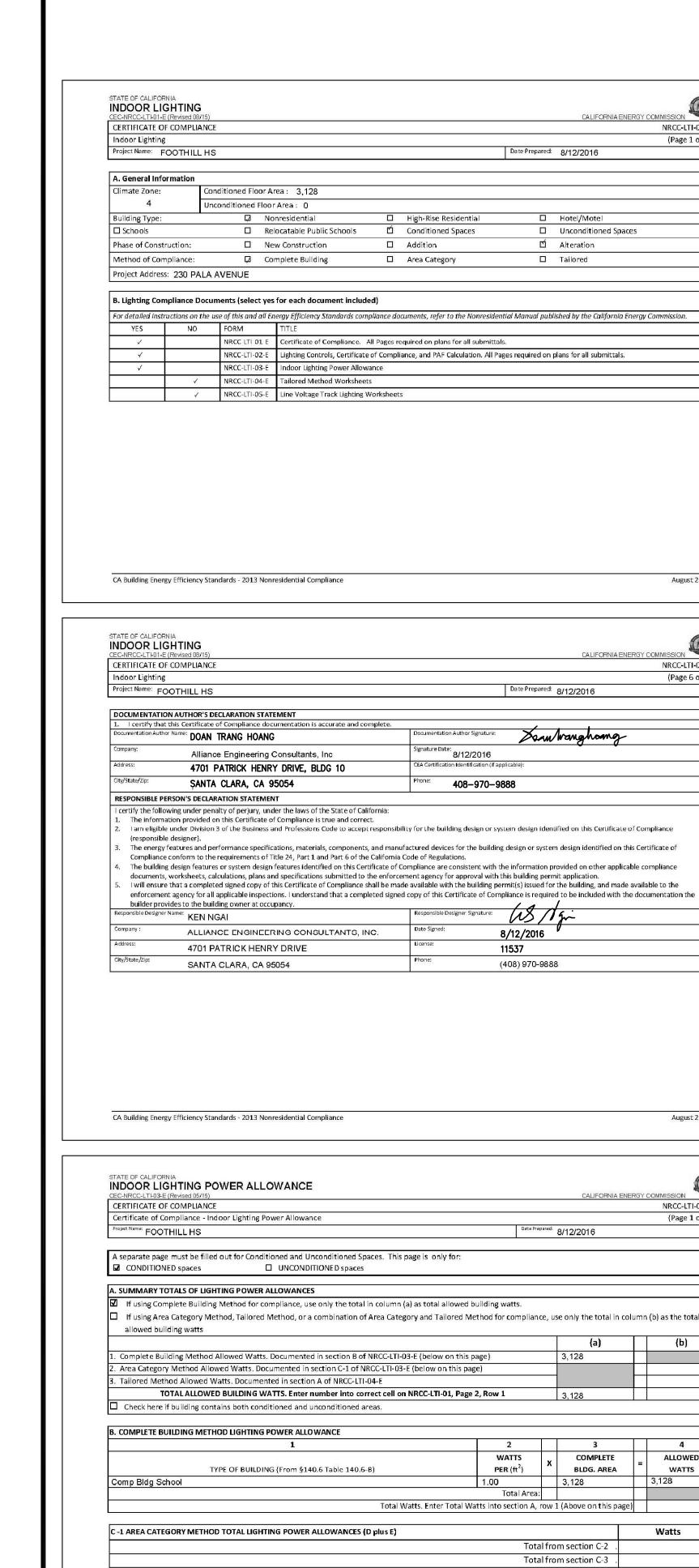
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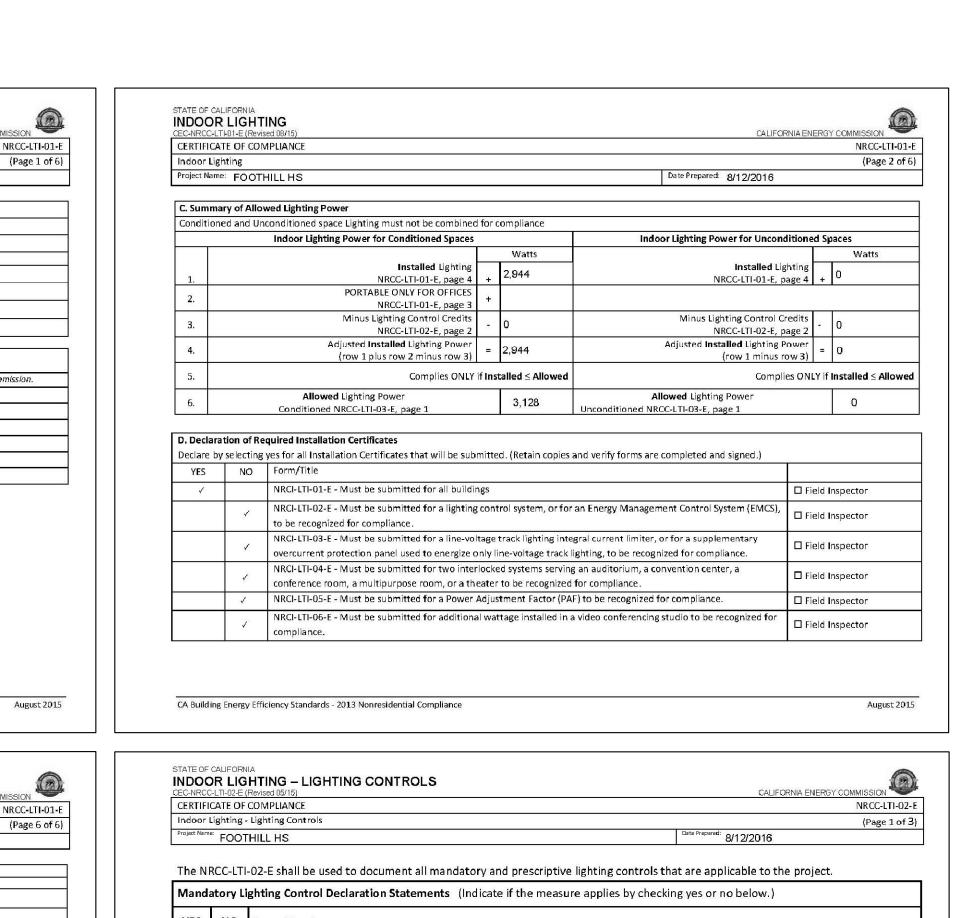
Regulatory Agency Approval IDENTIFICATION STAMP DIV. OF THE STATE ARCHITECT OFFICE OF REGULATION SERVICES ___FLS__



DSA File Number 43-H10 DSA Application Number 01-116131 135145

12.15.16





Lighting shall be controlled by self-contained lighting control devices which are certified to the Energy Commission according to the Title 20 Appliance

Lighting shall be controlled by a lighting control a system or energy management control system in accordance with §110.9. An Installation Certificate

130.0. Additionally, an Installation Certificate shall be submitted in accordance with Section 130.4(b).

rnamental, and special effects lighting shall each be separately controlled; in accordance with Section 130.1(a)4.

stallation Certificate shall be installed in accordance with Section 130.4(b).

multi-level lighting control requirements in accordance with Section 130.1(b).

One or more Track Lighting Integral Current Limiters shall be installed which have been certified to the Energy Commission in accordance with §110.9 and

A Track Lighting Supplementary Overcurrent Protection Panel shall be installed in accordance with Section 110.9 and Section 130.0. Additionally, an

All lighting controls and equipment shall comply with the applicable requirements in §110.9 and shall be installed in accordance with the manufacturer's

eneral lighting shall be separately controlled from all other lighting systems in an area. Floor and wall display, window display, case display, ornamental,

he general lighting of any enclosed area 100 square feet or larger, with a connected lighting load that exceeds 0.5 watts per square foot shall meet the

Il luminaires shall be functionally controlled with manually switched ON and OFF lighting controls in accordance with Section 130.1(a).

and special effects lighting shall each be separately controlled on circuits that are 20 amps or less. When track lighting is used, general, display,

installed indoor lighting shall be equipped with controls that meet the applicable Shut-OFF control requirements in Section 130.1(c).

Lighting in all Daylit Zones shall be controlled in accordance with the requirements in Section 130.1(d) and daylit zones are shown on the plans.

Lighting power in buildings larger than 10,000 square feet shall be capable of being automatically reduced in response to a Demand Responsive Signal in

efore an occupancy permit is granted for a newly constructed building or area, or a new lighting system serving a building, area, or site is operated for

ccordance with Section 130.4.(a). The controls required to meet the Acceptance Requirements include automatic daylight controls, automatic shut-OFF

normal use, indoor lighting controls serving the building, area, or site shall be certified as meeting the Acceptance Requirements for Code Compliance in

Efficiency Regulations in accordance with Section 110.9.

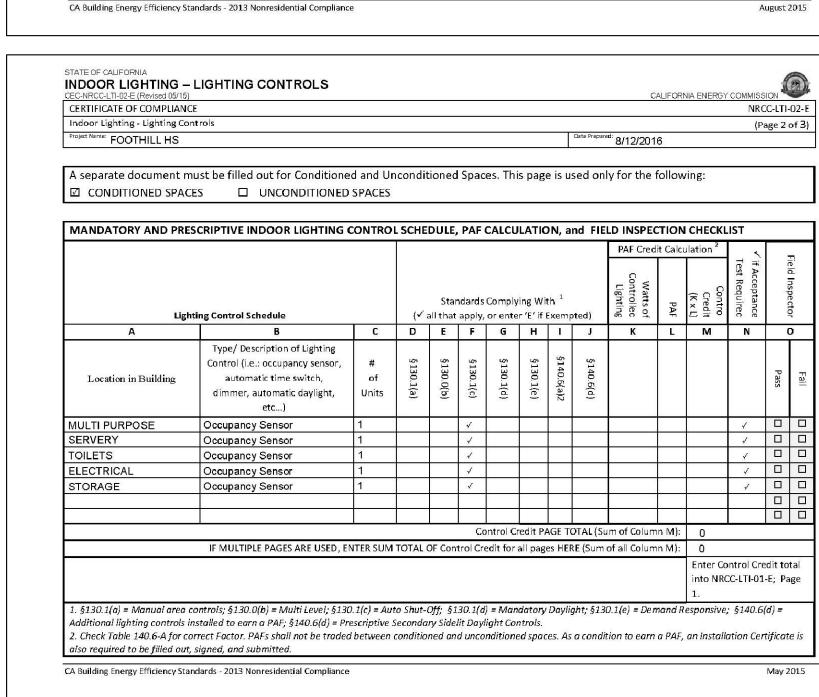
hall be submitted in accordance with Section 130 4(h).

structions in accordance with Section 130.1.

ccordance with Section 130.1(e).

CA Building Energy Efficiency Standards - 2013 Nonresidential Compliance

ontrols, and demand responsive controls.



NRCC-LTI-01-E

Field Inspecto

☐ Field Inspector

☐ Field Inspector

Date Prepared: 8/12/2016

(Page 3 of 6)

CERTIFICATE OF COMPLIANCE

Project Name: FOOTHILL HS

(responsible designer).

idoor Lighting - Lighting Control

DOCUMENTATION AUTHOR'S DECLARATION STATEMENT

RESPONSIBLE PERSON'S DECLARATION STATEMENT

builder provides to the building owner at occupancy.

DOAN TRANG HOANG

SANTA CLARA, CA 95054

4701 PATRICK HENRY DRIVE

SANTA CLARA, CA 95054

CA Building Energy Efficiency Standards - 2013 Nonresidential Compliance

INDOOR LIGHTING

CERTIFICATE OF COMPLIANCE

Project Name: FOOTHILL HS

YES NO Form/Title

E. Declaration of Required Certificates of Acceptance

☐ CONDITIONED SPACE ☐ UNCONDITIONED SPACE

F. Indoor Lighting Schedule and Field Inspection Energy Checklist

Declare by checking all of the Certificates of Acceptance that will be submitted. (Retain copies and verify forms are completed and signed.)

NRCA-LTI-02-A - Must be submitted for occupancy sensors and automatic time switch controls.

A separate Lighting Schedule Must Be Filled Out for Conditioned and Unconditioned Spaces. Installed Lighting Power listed on this Lighting Schedule is only for:

☐ When Area Category Method or Tailored Method is used for compliance, list each different type of luminaire by each different function area on separate lines

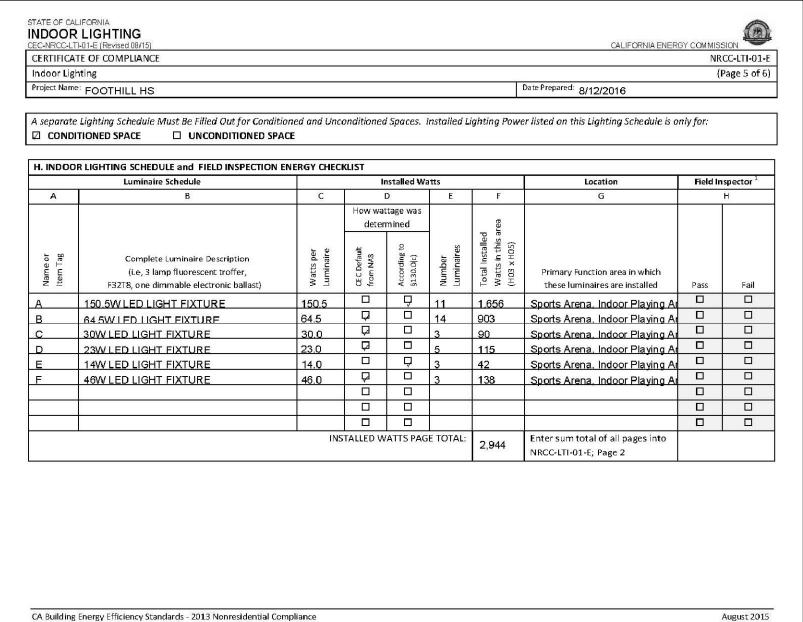
☐ The actual indoor lighting power listed on this page and on the next page includes all installed permanent and planned portable lighting systems.

☐ Also include track lighting in schedule, and submit the track lighting compliance form (NRCC-LTI-05-E) when line-voltage track lighting is installed.

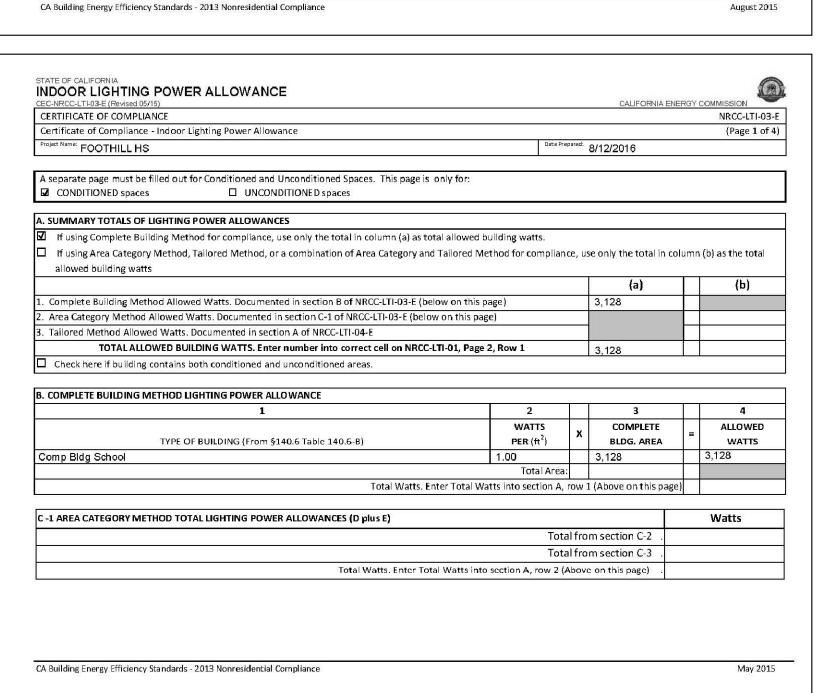
NRCA-LTI-03-A - Must be submitted for automatic daylight controls.

NRCA-LTI-04-A - Must be submitted for demand responsive lighting controls

☐ When Complete Building Method is used for compliance, list each different type of luminaire on separate lines.







Date Prepared: 8/12/2016

Hotel/Motel

☑ Alteration

☐ Tailored

Date Prepared: 8/12/2016

8/12/2016

(408) 970-9888

Signature Date: 8/12/2016

Certification Identification (if appli

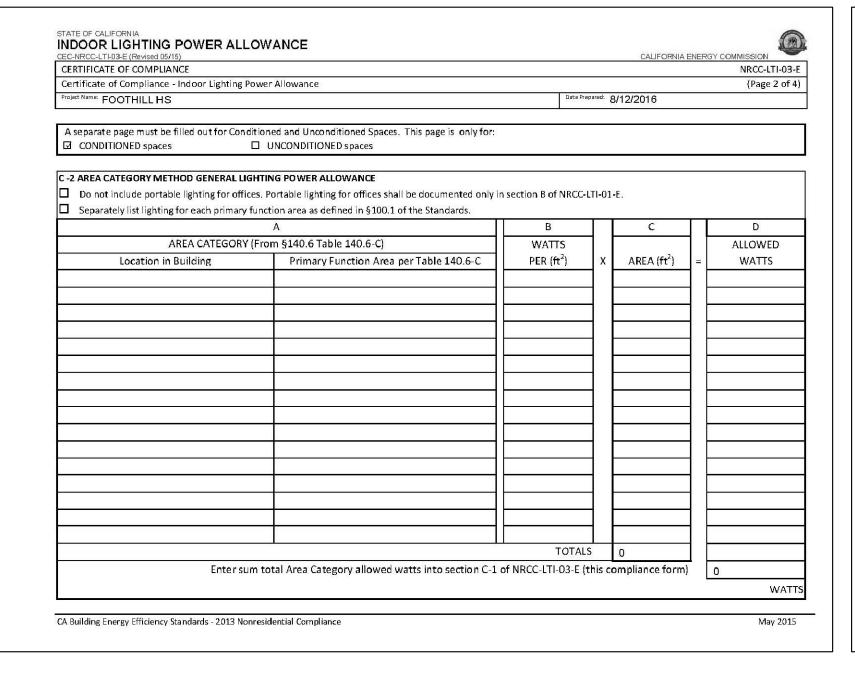
Sombranghong

Unconditioned Spaces

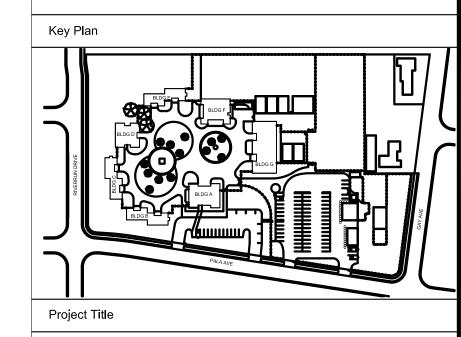
High-Rise Residential

□ Addition

□ Area Category







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PROJECT NO. 175-16-13

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EAST SIDE UNION HIGH SCHOOL DISTRICT

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		100% Construction Documents	08.05.16
		DSA Approval	12.15.16
Ī			

Drawing Title

CERTIFICATE OF COMPLIANCE TITLE 24

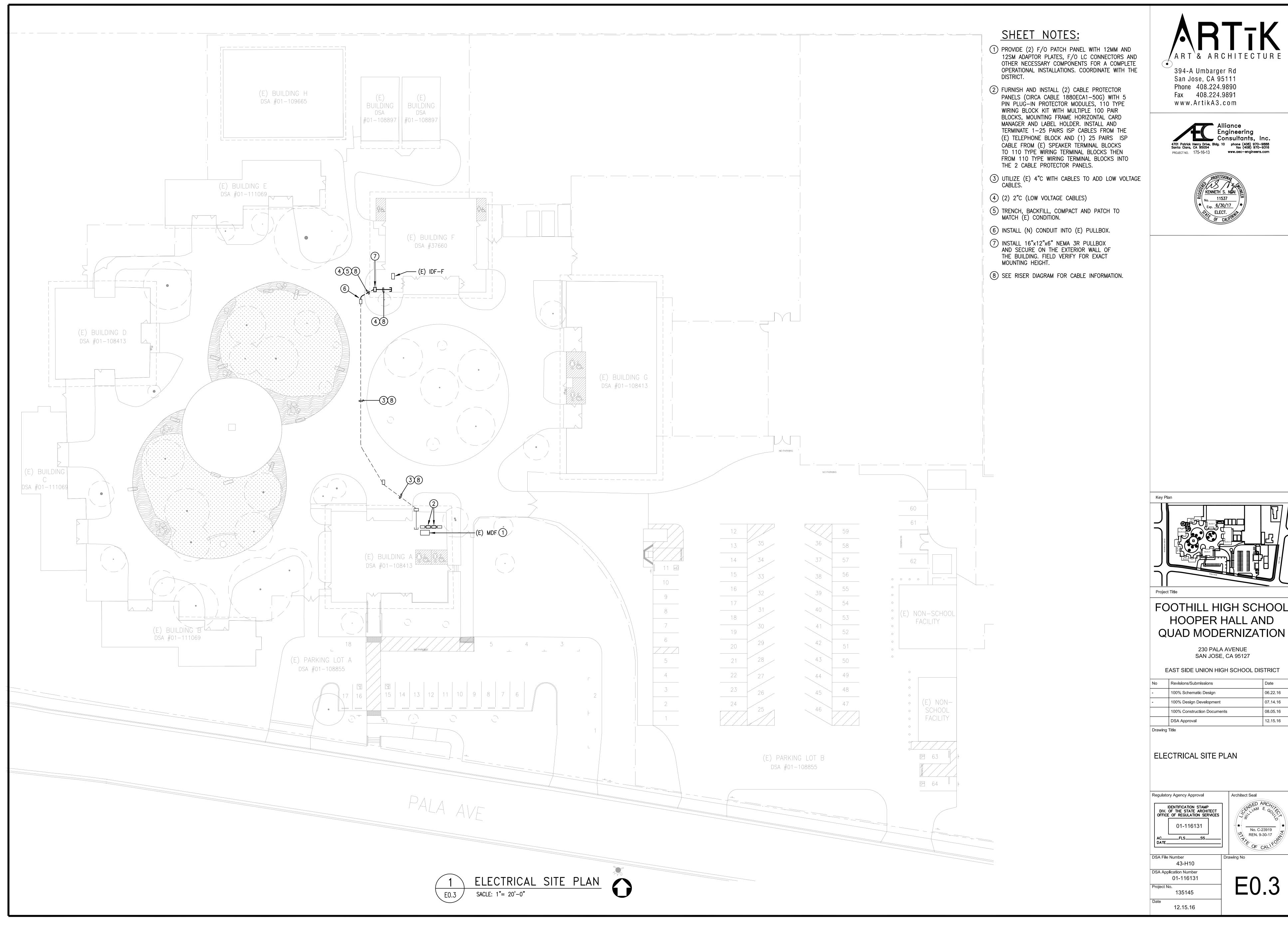
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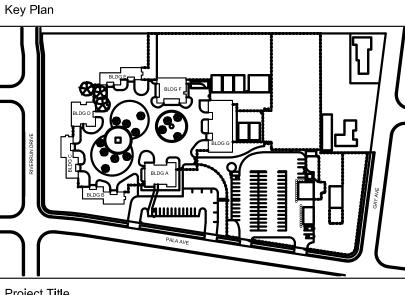
No. C-23919 $|0\rangle$ REN. 9-30-17

43-H10 DSA Application Number 01-116131 135145

12.15.16

DSA File Number





	No	Revisions/Submissions	Date
	•	100% Schematic Design	06.22.16
	-	100% Design Development	07.14.16
		100% Construction Documents	08.05.16
		DSA Approval	12.15.16
- 1			

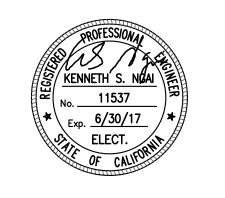


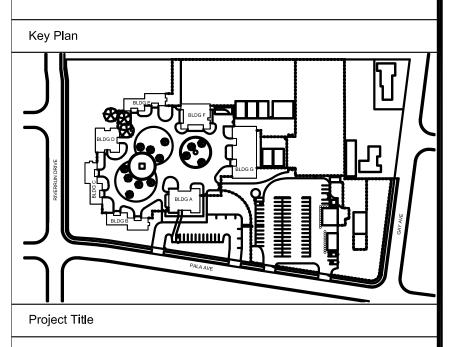
- 1 ALL ELECTRICAL ITEMS SHOWN ON THIS DRAWING SHALL BE DISCONNECTED AND REMOVED, INCLUDING WIRES AND CONDUITS UP TO SOURCE OR THE NEXT JUNCTION BOX WHICH IS TO REMAIN, U.O.N..
- 2) REPLACE (E) RECEPTACLE WITH A (N) ONE.
- 3 DISCONNECT AND REMOVE (E) SURFACE RACEWAY AND ASSOCIATED WIRES AND CONDUITS UP TO SOURCE .
- 4 REPLACE (E) ELECTRICAL PANEL WITH A NEW ONE.
 ALL (E) BRANCH CIRCUITS THAT ARE TO REMAIN
 SHALL BE RECONNECTED TO THE (N) PANEL IN THE
 SAME SIZE OF CIRCUIT PROJECTION AS THE (E).



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FOOTHILL HIGH SCHOOL HOOPER HALL AND QUAD MODERNIZATION

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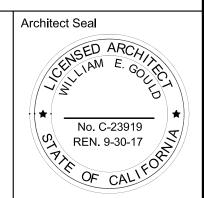
EAST SIDE UNION HIGH SCHOOL DISTRICT

	No	Revisions/Submissions	Date	
	-	100% Schematic Design	06.22.16	
	-	100% Design Development	07.14.16	
		100% Construction Documents	08.05.16	
		DSA Approval	12.15.16	

Drawing Tit

ELECTRICAL DEMOLITION PLAN

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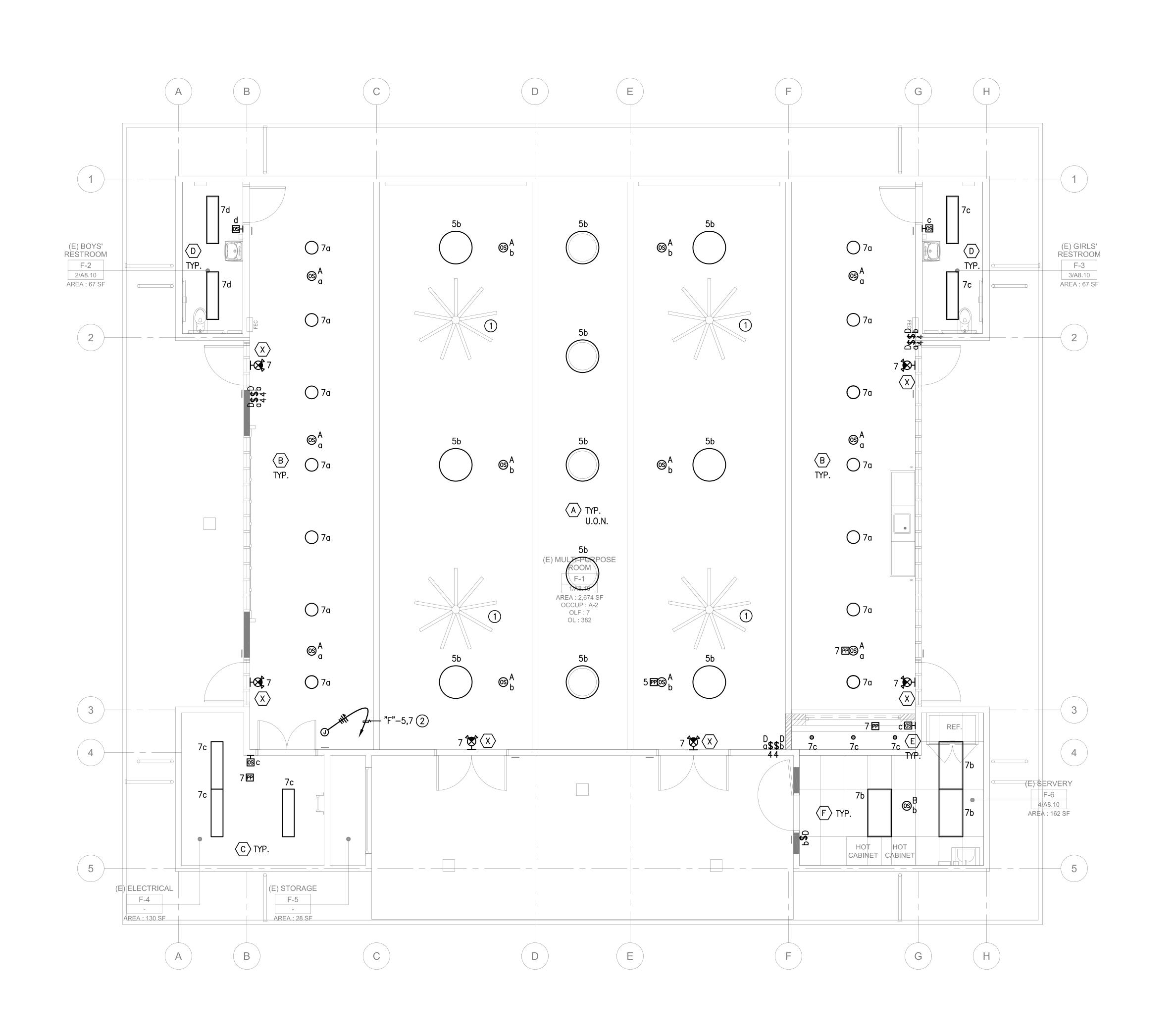


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E1.0



1) FOR (N) WORK ON THE CEILING FAN, SEE DWG. 1/E2.1.

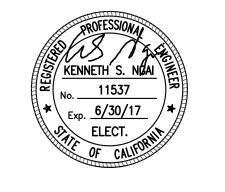
2 SEE DWG. E2.1 FOR PANEL LOCATION.

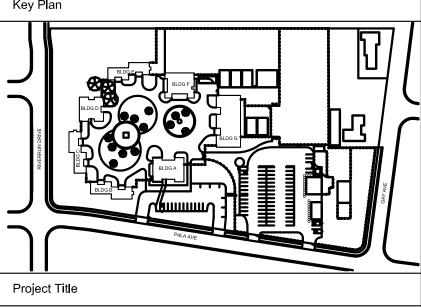
3) REFER TO DWG. 3/E4.1 FOR LIGHTING CONTROL WIRING DIAGRAM.



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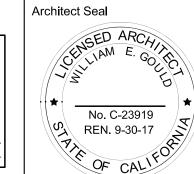
EAST SIDE UNION HIGH SCHOOL DISTRICT

No Revisions/Submissions		Date
ı	100% Schematic Design	06.22.16
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	DSA Approval	12.15.16

Drawing Title

LIGHTING PLAN

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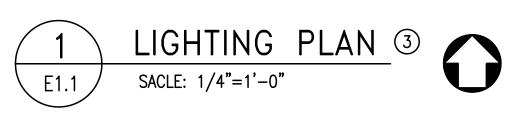


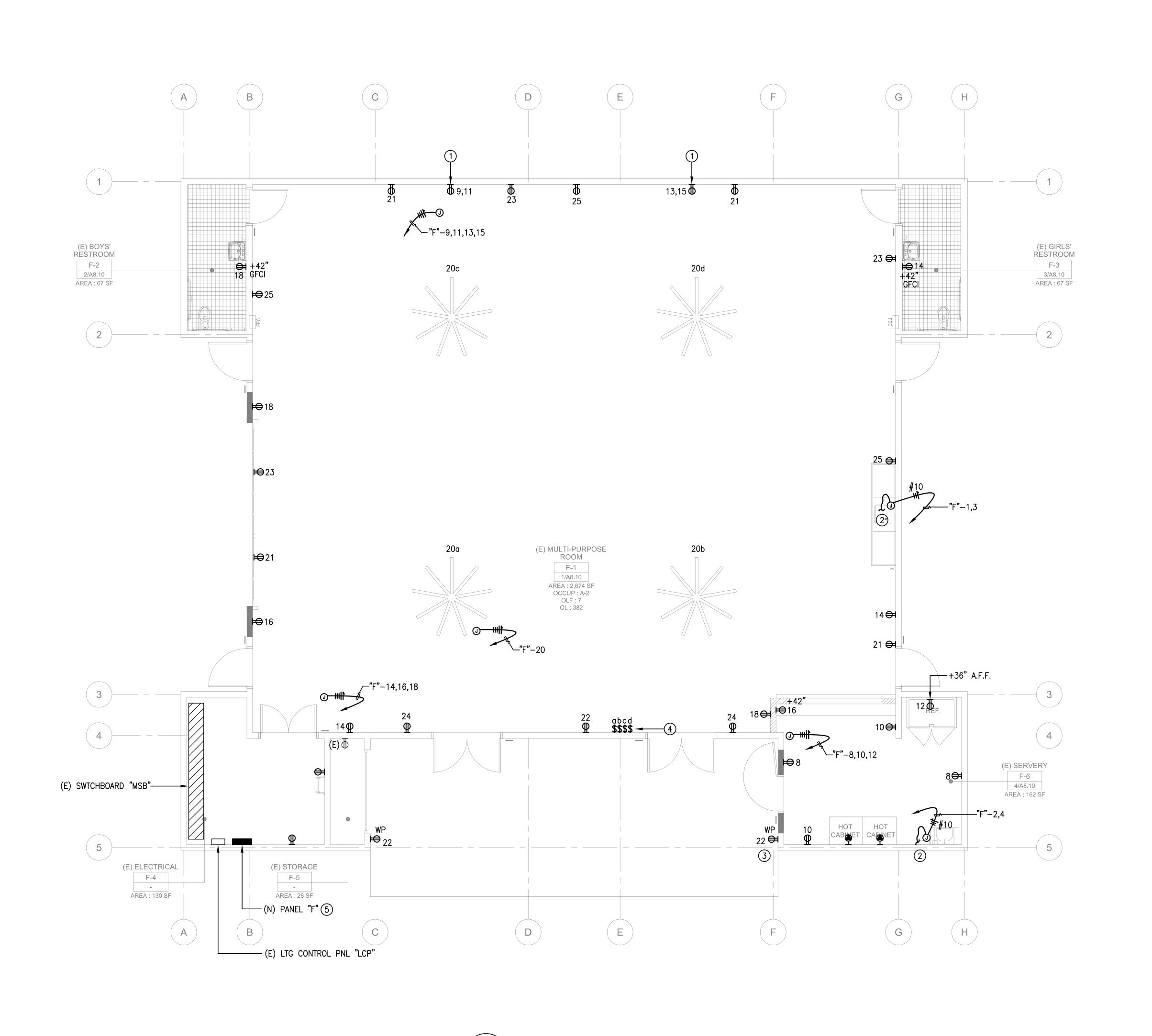
DSA File Number
43-H10

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01-116131 No. 135145





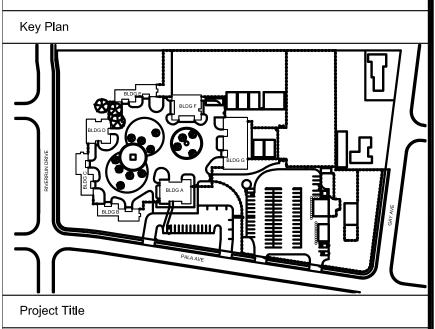
- 1) PROVIDE 9 DUPLEX RECEPTACLES FOR THE 9 VIDEO DISPLY PLAYERS. CONNECT 4 DUPLEX RECEPTACLES AND 5 DUPLEX RECEPTACLES EACH CIRCUIT AS SHOWN. COORDINATE WITH VIDEO DISPLAY CONTRACTOR FOR RECEPTACLE LOCATIONS AND ARRANGEMENTS.
- 2 MAKE FINAL CONNECTION TO INSTANT WATER HEATER CONTROL BOX. COORDINATE WITH MECHANICAL CONTRACTOR PRIOR TO ROUGH-IN.
- 3 FIELD VERIFY AND RECONNECT THIS CIRCUIT TO PUT IT BACK IN SERVICE. EXTEND CONDUIT AND WIRES AS REQUIRED.
- (4) CONTROL SWITCH FOR CEILING FAN, PROVIDE ALL NECESSARY WIRING CONNECTION AS REQUIRED.
- (5) INSTALL (N) PANEL "F" IN THE SAME LOCATION OF THE (E) PANEL THAT WAS REMOVED IN THE DEMOLITION WORK.



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Drawing Title

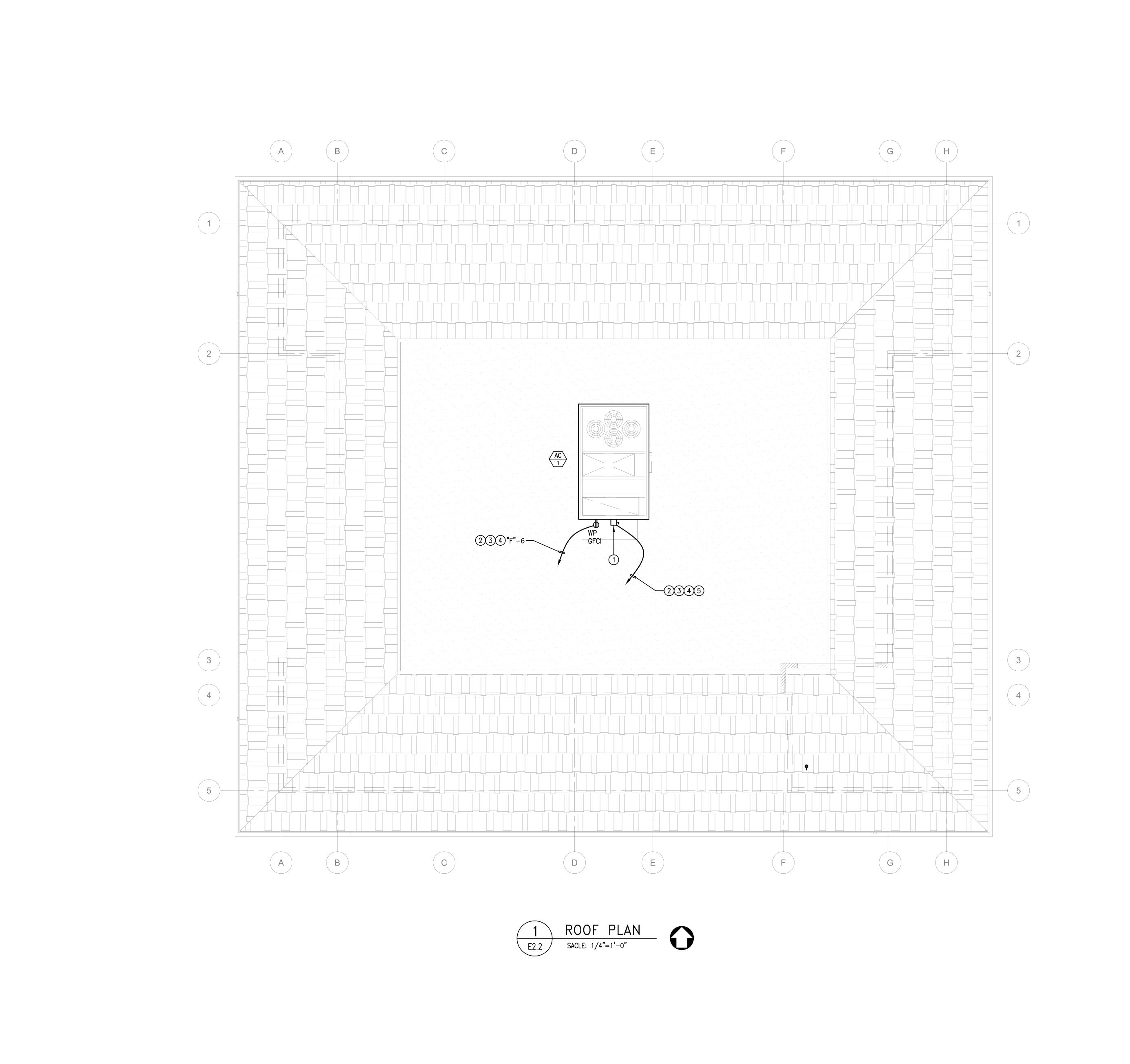
POWER PLAN

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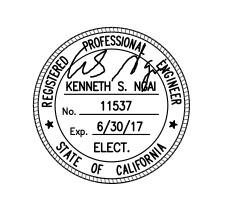


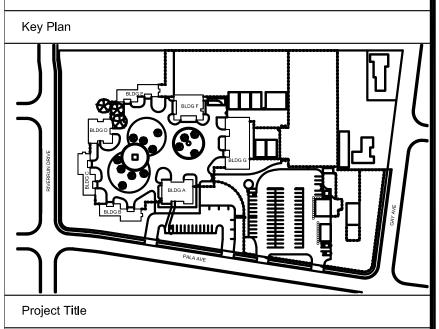
- 1 PROVIDE (N) 100A/3P, 240V MAX. FUSIBLE DISCONNECT SWITCH IN NEMA 3R ENCLOSURE WITH (3) 100A FUSES.
- 2 ROUTE CONDUIT ON THE ROOF AND PROVIDE CONDUIT SUPPORT AT 8 FT INTERVAL MAX.
- 3 REFER TO DRAWING DETAIL 2/E4.1 FOR CONDUIT SUPPORT.
- 4 SEE DRAWING E2.1 FOR PANEL LOCATION.
- 5 HOMERUN TO MAIN SWITCHBOARD "MSB", REFER TO SINGLE LINE DIAGRAM FOR FEEDER SIZE.



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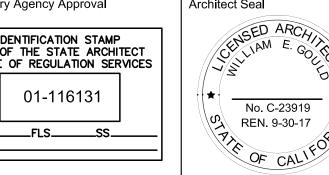
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EAST SIDE UNION HIGH SCHOOL DISTRICT

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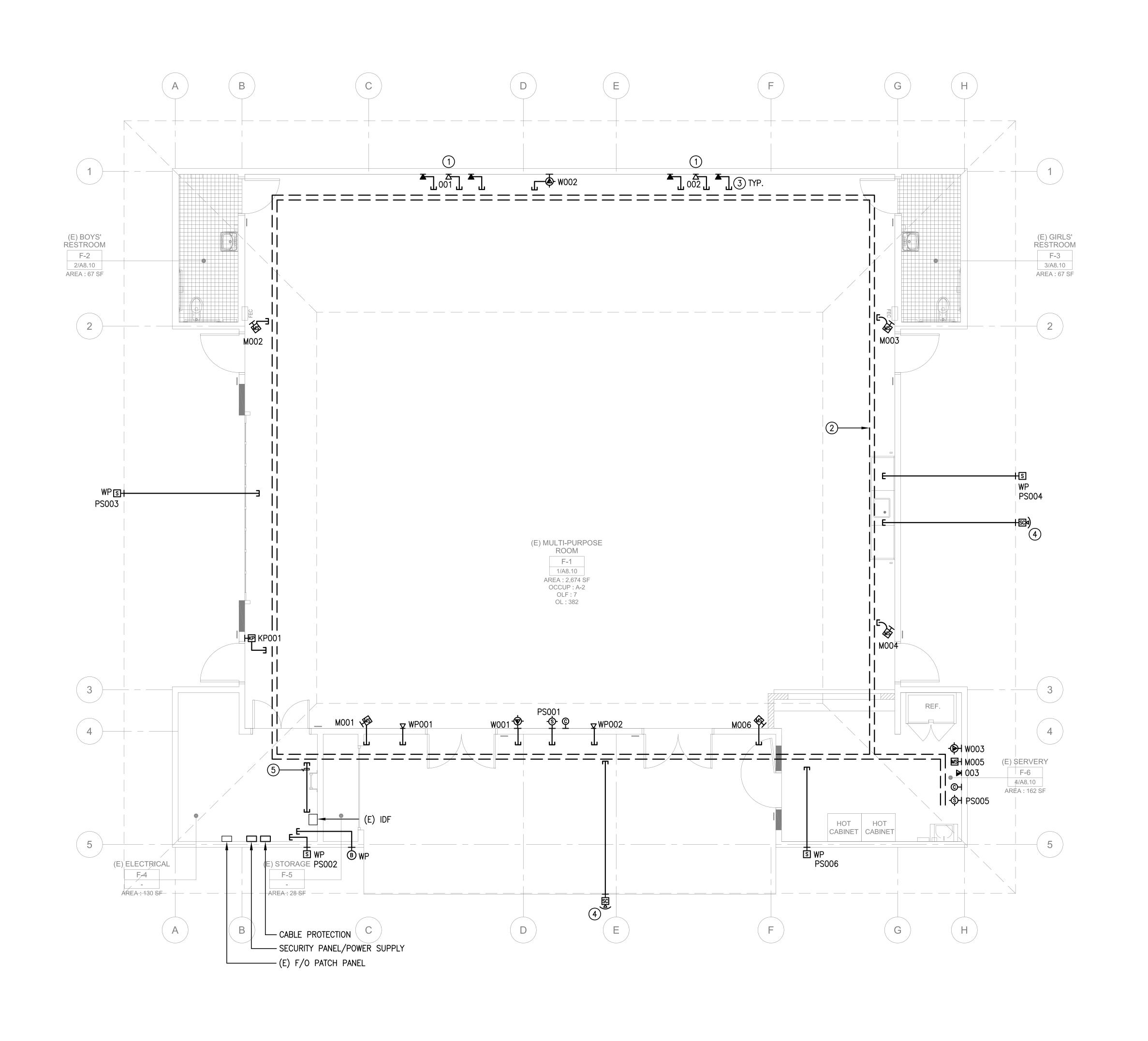
ROOF PLAN

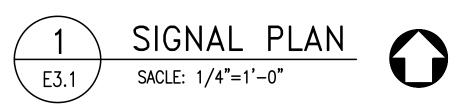
Regulatory Agency Approval



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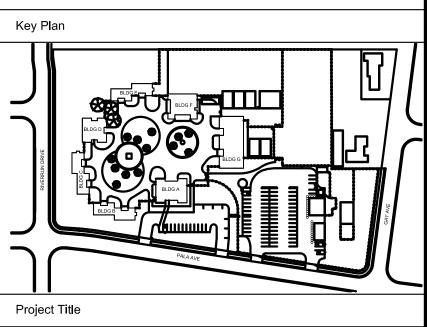
- COORDINATE DATA MOUNTING HEIGHT WITH VIDEO DISPLAY CONTRACTOR.
- 2) PROVIDE 3" J-HOOK IN THE ATTIC AREA FOR LOW VOLTAGE CABLE SUPPORT ALONG DOUBLE BROKEN LINES AT 4FT. ON CENTER.
- (3) EXTEND CONDUIT NEAR J-HOOKS.
- (4) MOUNT SECURITY CAMERA ON SOFFIT WALL. SEE DWG. 8/E4.1..
- (5) (2) 2 1/2"C (DATA/SPEAKER/SECURITY)



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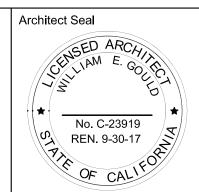
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Drawing Title

SIGNAL PLAN

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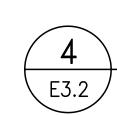
01-116131



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12.15.16 E3.



IDF TYPICAL GROUNDING SCHEMATIC WIRING DIAGRAM

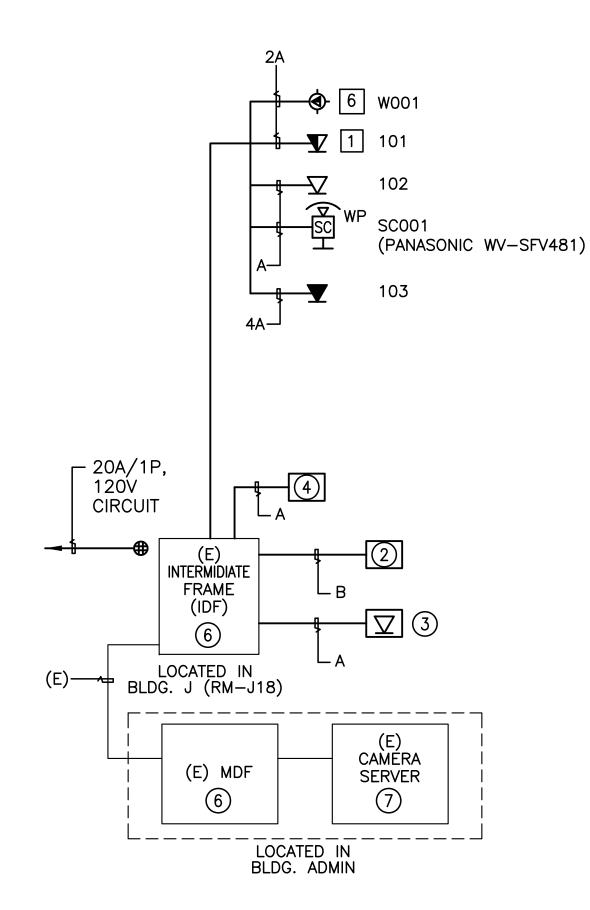
NOT TO SCALE

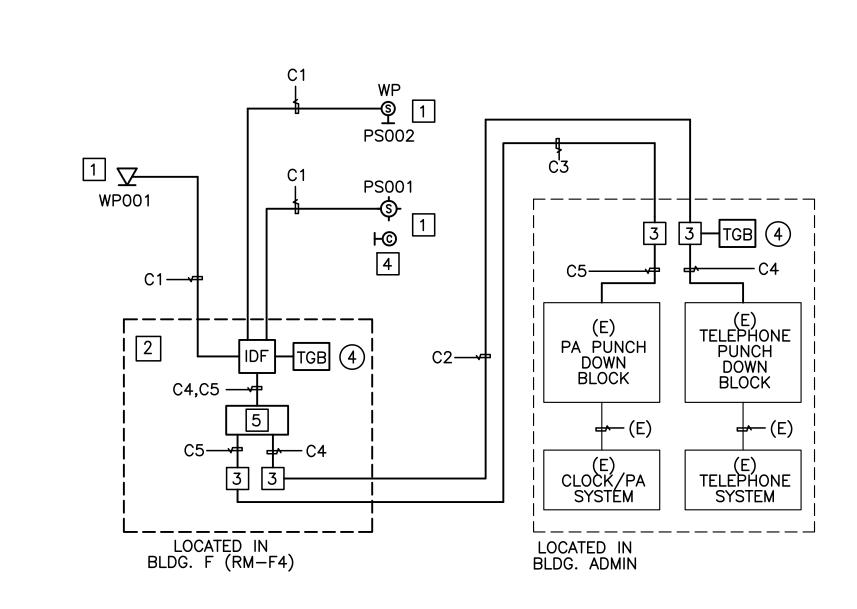
DIAGRAM/DETAIL NOTES:

- SEE FLOOR PLAN FOR EXACT LOCATION AND QUANTITY OF DEVICES.
- PROVIDE CROSS CONNECT SPOOL HOLDER.
 CPI 11435-719 OR EQUAL.
 PROVIDE 110-FT KIT FOR COPPER TERMINATION AS
- COPPER OSP CABLE PRIMARY PROTECTION (CIRCA 1880 EGA-50). TERMINATE 25 PAIRS SPEAKER CABLE AND 25 PAIRS TELEPHONE CABLE TO THIS UNIT. PROVIDE #6 AWG GREEN INSULATED CONDUCTOR TO THE (E) TGB FROM THE PRIMARY PROTECTOR
- PRIMEX WIRELESS TRADITIONAL SERIES CLOCK 14306 (12.5") BLACK. PROVIDE RECEPTACLE BEHIND CLOCK. CLOCK SHALL BE SYNCHRONIZED TO EXISTING CAMPUS CLOCK SYSTEM.
- 5 110 FRAMING KIT
- 6 WIRELESS ACCESS POINT DEVICE IS OWNER PROVIDED, CONTRACTOR INSTALLED. COORDINATE WITH THE DISCTRICT.

TYPE	DATA/VOICE CABLE SCHEDULE			
	DESCRIPTION			
Α	4 PAIR CAT 6 (BERTEK 10032094/7 CMP)			
	4 MM FO CABLE (OM4)			
B1	COMPOSITE CABLE 12MM/12SM FIBER OPTIC (OSP) BERK-TEK OPAD12B024-012CB35/25012AB0403			

TYPE	INTERCOM CABLE SCHEDULE		
	DESCRIPTION		
C1	4 PAIR CAT 6		
C2	(1) 25 PAIRS AWG ARMOR COPPER CABLE, OSP (SEE SPEC. SECTION 27.05.00, 2.2)		
C3	(1) 25 PAIRS AWG ARMOR COPPER CABLE, OSP (SEE SPEC. SECTION 27.05.00, 2.2)		
C4	(1) 25 PAIRS TELEPHONE CABLE (ISP) (SEE SPEC. SECTION 27.05.00, 2.5)		
C5	(1) 25 PAIRS SPEAKER CABLE (ISP) (SEE SPEC. SECTION 27.05.00, 2.5)		









GENERAL NOTES:

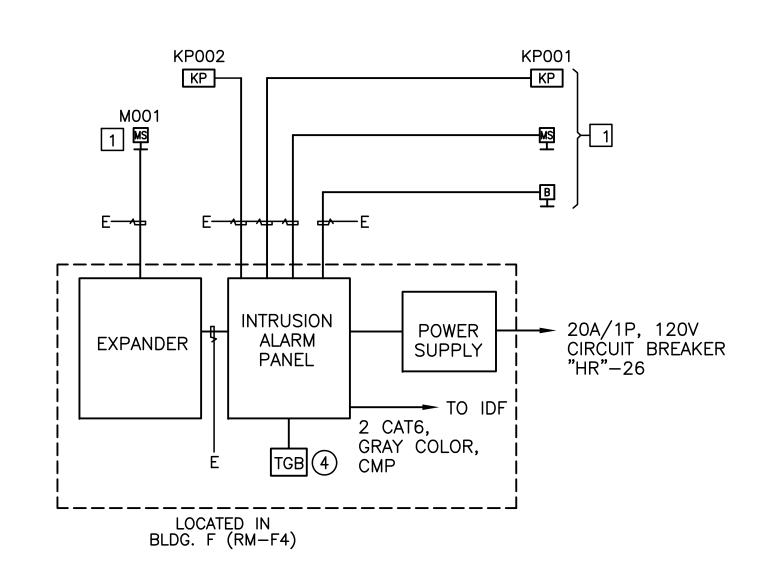
1. ELECTRICAL CONTRACTOR SHALL PROVIDE TEST LOG FOR FIBER OPTIC AND COPPER CABLE AFTER A COMPLETE INSTALLATION OF DATA SYSTEM AND SUBMIT TO THE DISTRICT. SEE SPECIFICATION, DIVISION 27 FOR TESTING INFORMATION.

SHEET NOTES:

- 1 FOR ADDITIONAL INFORMATION ON DEVICE LABELING AND NUMBERING, FACEPLATES, DEVICE COLOR AND OTHER DATA, VOICE SPEAKERS, INTRUSION STANDARDS. SEE IT GUIDELINE STANDARDS. COORDINATE WITH THE DISTRICT.
- 2) FIRE ALARM PANEL. COORDINATE WITH THE FIRE ALARM CONTRACTOR FOR CABLE CONNECTION.
- 3 PROVIDE CAT6 BLUE CABLE WITH A BLUE CAT6 JACK ON EITHER END FOR BMS. COORDINATE WITH MECHANICAL FOR EXACT LOCATION.
- 4 SECURITY INTRUSION ALARM PANEL. COORDINATE WITH SECURITY INTRUSION SYSTEM CONTRACTOR FOR CABLE CONNECTION.
- 5 COORDINATE WITH THE DISTRICT PRIOR TO RACK INSTALLATION.
- 6 SEE NOTE 2 ON SHEET E1.1 FOR WORK REQUIRED.
- 7 REPROGRAM AND CALIBRATE ALL NEW CAMERAS IN BUILDING F AS REQUIRED. COORDINATE WITH THE DISTRICT.

TYPE	SECURITY MATERIAL LIST
MOTION DETECTOR	BOSCH ISC-BPR2 BLUE LINE GEN 2 PIR
EXPANDER	BOSCH B208
KEY PAD	BOSCH D1255
CONTROL PANEL	BOSCH B9512G WITH B430 MODULE
ENCLOSURE	BOSCH D8103
LOCK & KEYSET	BOSCH D101
BREAK GLASS	BOSCH DS103i
HORN	AMSECO ABB-1014
POWER SUPPLY	ALARMSAF PS5-M003-UL

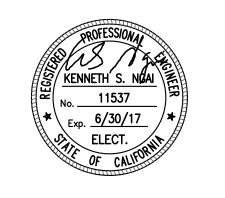
TYPE	INTRUSION ALARM SECURITY CABLE SCHEDULE				
	DESCRIPTION				
E	4 #18 (UNSHIELDED) (WEST PENN 2544B)				

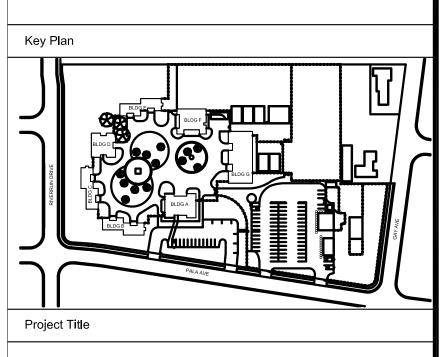




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Drawing Title

SIGNAL RISER DIAGRAM

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01-116131

Architect Seal

CENSED ARCHITECTURE

No. C-23919
REN. 9-30-17

PARCHITECTURE

No. C-23919
REN. 9-30-17

DSA File Number
43-H10

DSA Application Number
01-116131

E3.2

135145

135145

PATCH PANEL LABELING DETAIL

SHEET NOTES:

ALARM SAF INTRUSION POWER SUPPLY

BOSCH D8103 ENCLOSURE WITH A D101 LOCK AND KEY

9412GV2 INTRUSION PANEL

1 CONTRACTOR SHALL COORDINATE LABELING WITH DISTRICT PRIOR TO FINAL INSTALL.

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THE BOSCH D8103 ENCLOSURE IS TO HOUSE OCTOPOPITS AND IDEAL BARRIER STRIPS FOR A CLUTTER FREE INTRUSION PANEL.

PROPER GROUNDING AND BONDING MUST BE PERFORMED THROUGHOUT THE INSTALLATION AND CONNECTED TO THE TELECOMMUNICATIONS MAIN GROUNDING BUS BAR IN THE MDF.

INTRUSION PANEL POWER SUPPLY RECEIVE A SEPARATE DEDICATED 20 AMP CIRCUIT TIED BACK TO THE IDF ELECTRICAL SUBPANEL.

IMPORTANT: BEFORE BUILD OUT OF IDF IS STARTED THE CONTRACTOR MUST CONFIRM LAYOUT WITH ESUHSD IT DEPARTMENT.

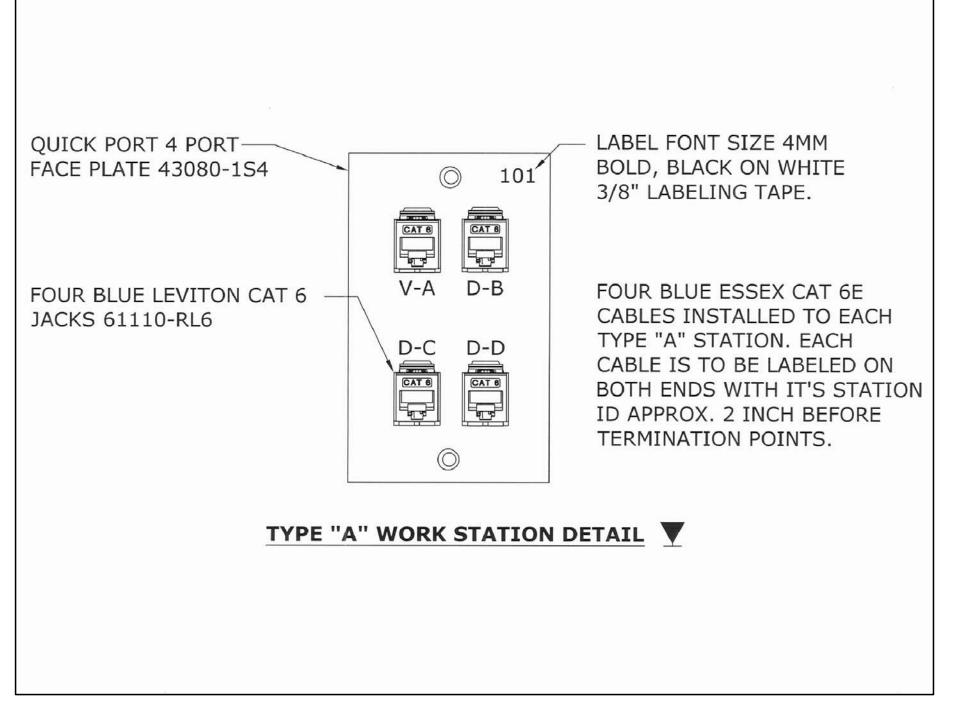
ONE CPI 11435-719 CROSS-CONNECT CABLE REEL LOADED WITH FOUR SPOOLS. SEE SPECS FOR CROSS CONNECT COLOR REQUIREMENTS. PROTECTOR -25 PAIR ISP TIE FROM THE 300 PAIR VERTICAL MANAGER 41880-300 TERMINATED ONTO C5 CLIPS _300 PAIR 110 FRAME KIT 41MB2-3FT PROTECTOR -25 PAIR ISP TIE FROM THE TERMINATED ONTO C5 CLIPS. _ 100 PAIR ISP TERMINATED ONTO C5 CLIPS TIE TO PATCH PANEL PROTECTORS AND 110 FIELD MOUNTED - 50 PAIR ISP TERMINATED ONTO C5 CLIPS TIE TO LEVEL AT 5'-6" AFF. PATCH PANEL 50 PAIR **50 PAIR PROTECTOR** PROPER GROUNDING AND BONDING MUST BE LOADED WITH FUSES PERFORMED THROUGHOUT THE INSTALLATION. TO MDF. A DEDICATED TELECOMMUNICATIONS MAIN **GROUNDING BUS BAR AND GROUND ROD MUST** BE INSTALLED IN THE IDF. **50 PAIR PROTECTOR** LOADED WITH FUSES IMPORTANT: BEFORE BUILD OUT OF IDF IS STARTED TO MDF. THERE MUST BE A PRECONSTRUCTION MEETING TO CONFIRM LAYOUT WITH ESUHSD IT DEPARTMENT. 25 AND 25 PAIR OSP CABLES FROM MDF 25 AND 25 PAIR ISP FEEDERS FROM PROTECTORS STORAGE CABLE RINGS TO 110 FRAMES. REQUIRED FOR ALL OSP BACKBONE CABLES - 4 INCH D-RINGS EVENLY SPACED MAX. DISTANCE 12 INCHES APART.

IDF COPPER BACKBONE ELEVATION STANDARD

ESUHSD IT GUIDELINE STANDARDS 040112

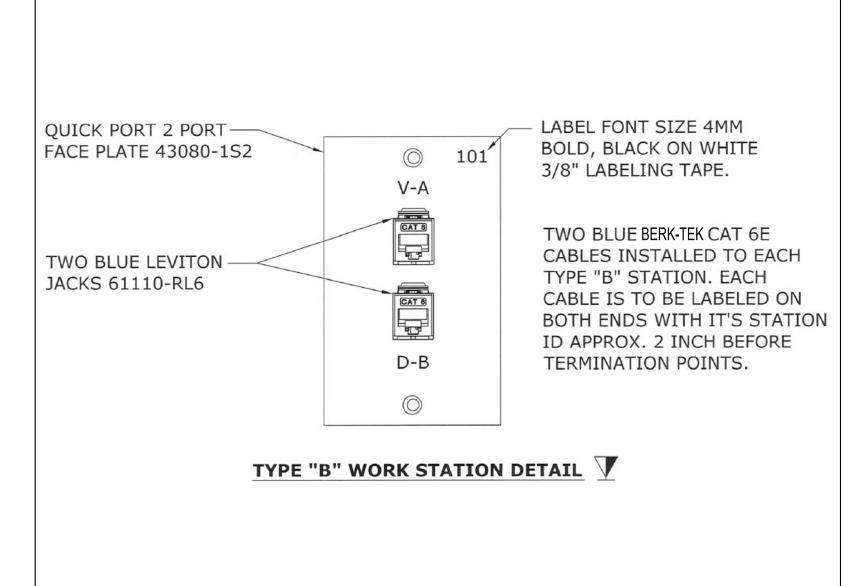
ESUHSD IT GUIDELINE STANDARDS FLOOR PLAN DEVICE NUMBERING EXAMPLE

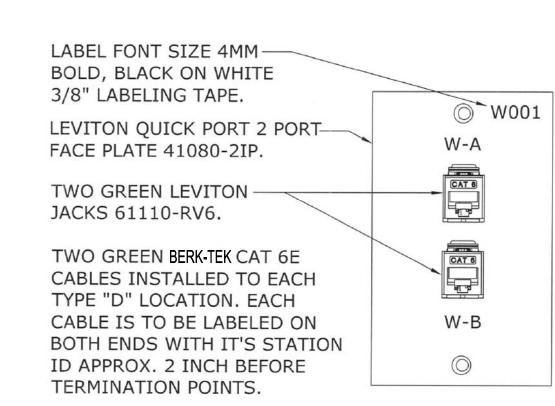
STATION LOCATIONS	WP LOCATIONS	WIRELESS LOCATIONS	SECURITY CAMERAS	PAGING SPEAKERS	MOTION DECTECTORS	KEY PADS
101	WP001	W001	SC001	PS001	M001	KP001
102	WP002	W002	SC002	PS002	M002	KP002
103	WP003	W003	SC003	PS003	M003	KP003
104	WP004	W004	SC004	PS004	M004	KP004



QUICK PORT STAINLESS STEEL-LABEL FONT SIZE 4MM WALLPHONE WALLPLATE RECESSED, BOLD, BLACK ON WHITE OWP001 1 PORT 4108W-0SP 3/8" LABELING TAPE. MUST MEET ADA REQUIREMENTS ONE BLUE BERK-TEK CAT 6E FOR MOUNTING HEIGHT AND CAT 6 CABLE INSTALLED TO EACH MUST HAVE 8" CLEARANCE ON TYPE "C" STATION. EACH EITHER SIDE FROM CENTER OF CABLE IS TO BE LABELED ON BOTH ENDS WITH IT'S STATION ONE BLUE LEVITION JACK ID APPROX. 2 INCH BEFORE 61110-RL6 TERMINATION POINTS.

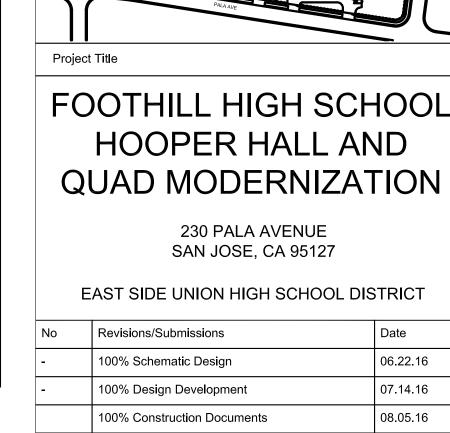
TYPE "C" WALL PHONE LOCATION DETAIL





NOTE: THE FACE PLATE IS TO BE SECURED TO A SINGLE GANG LEVITON BACK BOX 42777-1IA. THEN COILED AND SUPPORTED NEATLY ABOVE THE CEILING WITH A 10 FOOT SERVICE LOOP 1 FOOT IN DIAMETER. A GREEN AVERY LABEL #5463 AND A STATION LABEL UTILIZING THE SAME FONT SIZE AS ON THE FACE PLATE MUST BE PLACED ON THE CEILING GRID DIRECTLY BELOW THE LOCATION.

TYPE "D" WIRELESS LOCATION DETAIL T



	IT GUIDELINE STANDAR	DS
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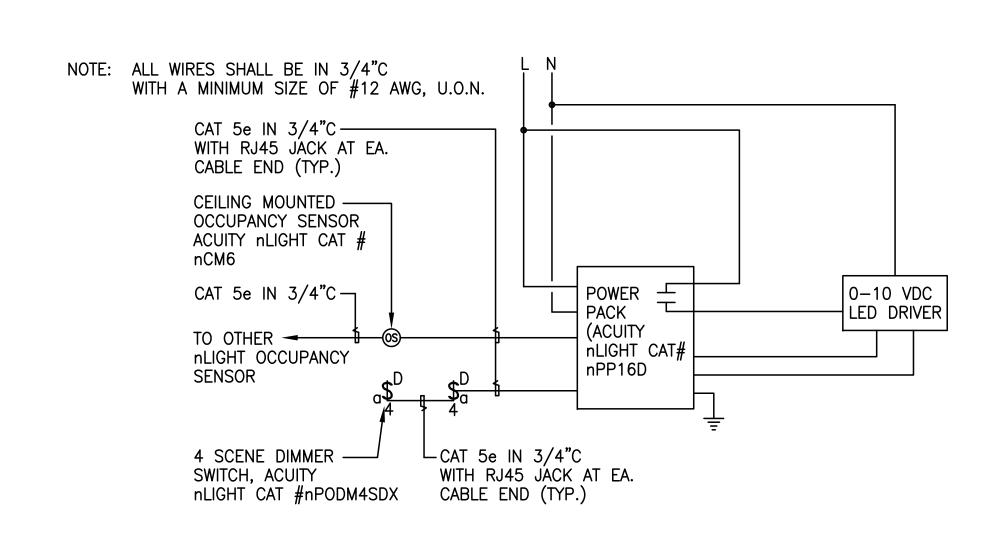
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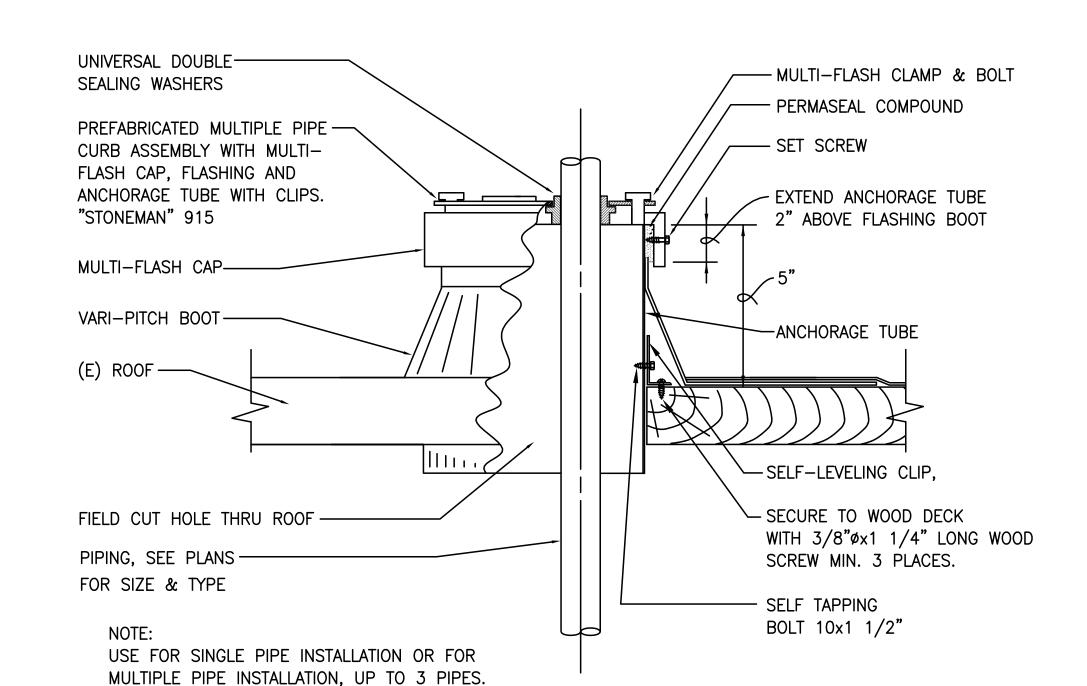
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12.15.16

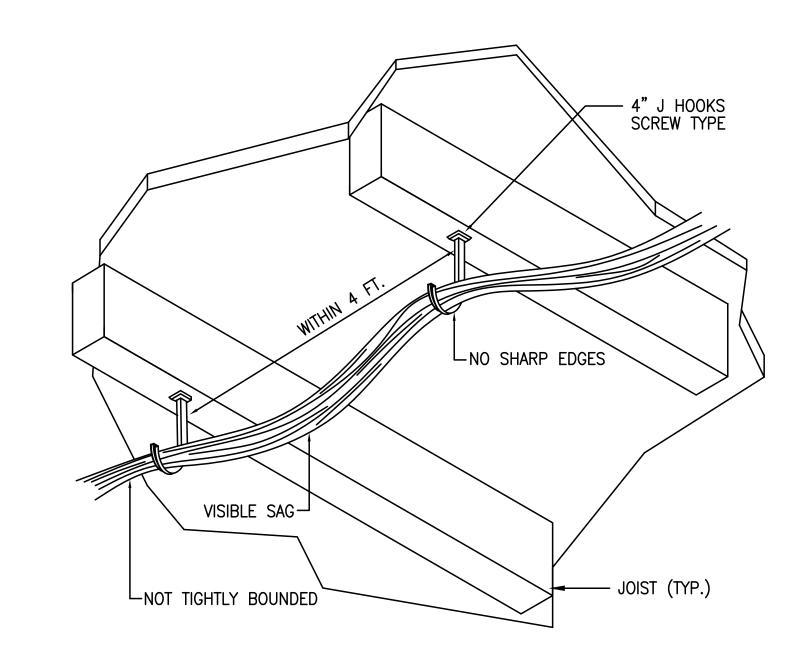




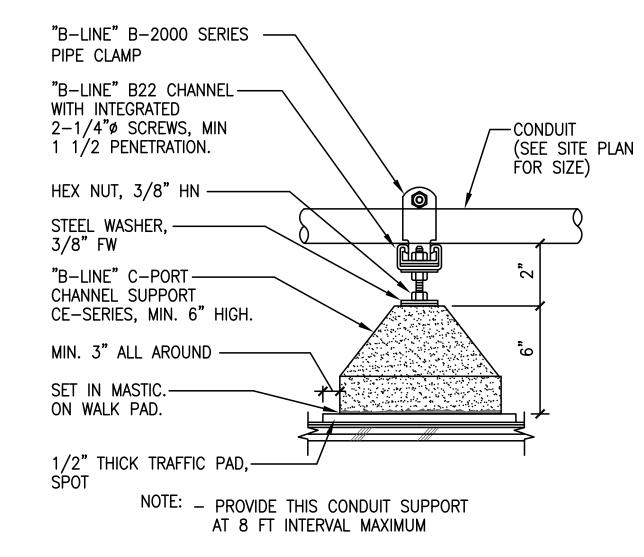
LIGHTING CONTROL WIRING DIAGRAM NOT TO SCALE E4.1



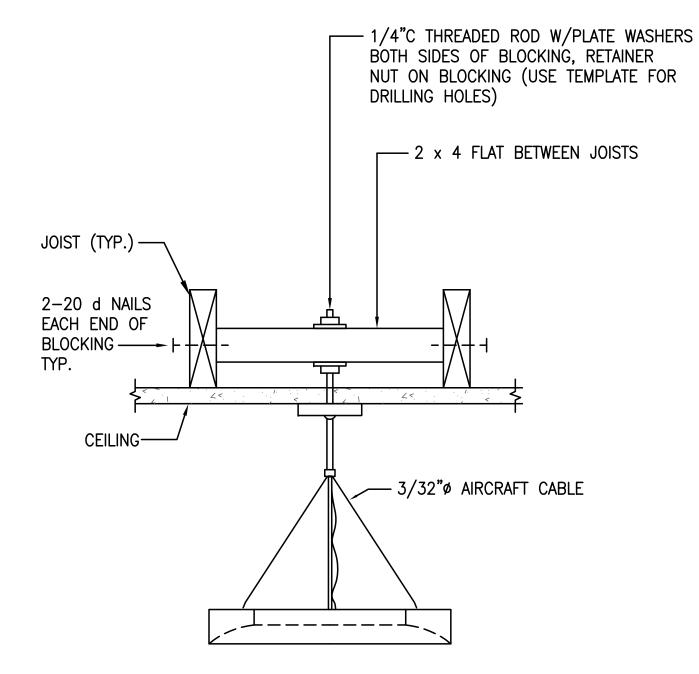




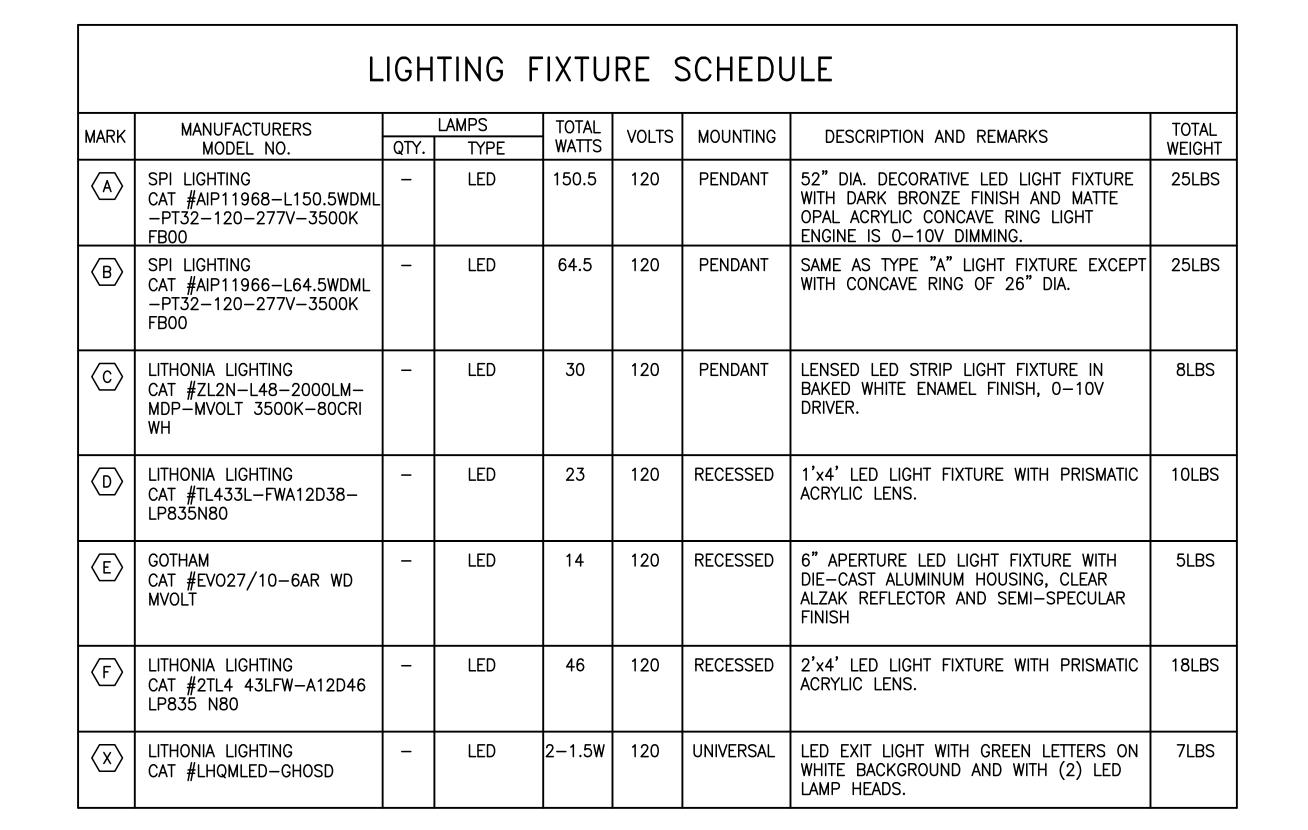


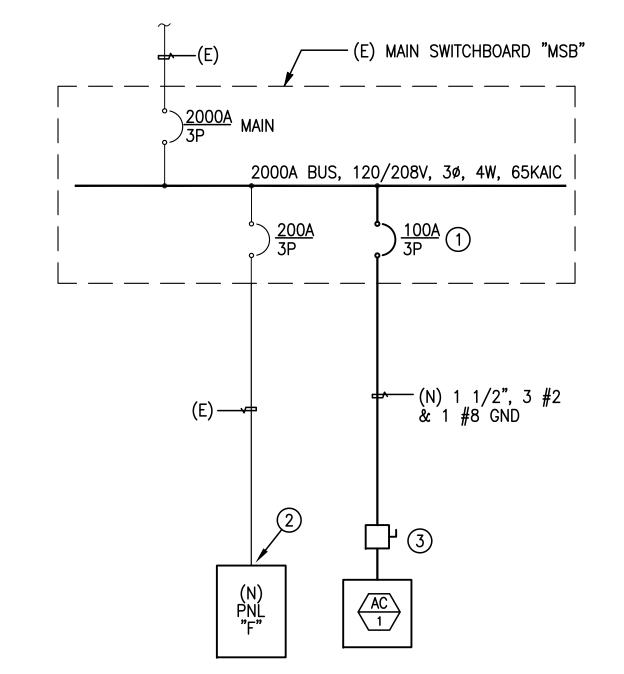


ROOF CONDUIT SUPPORT NOT TO SCALE E4.1

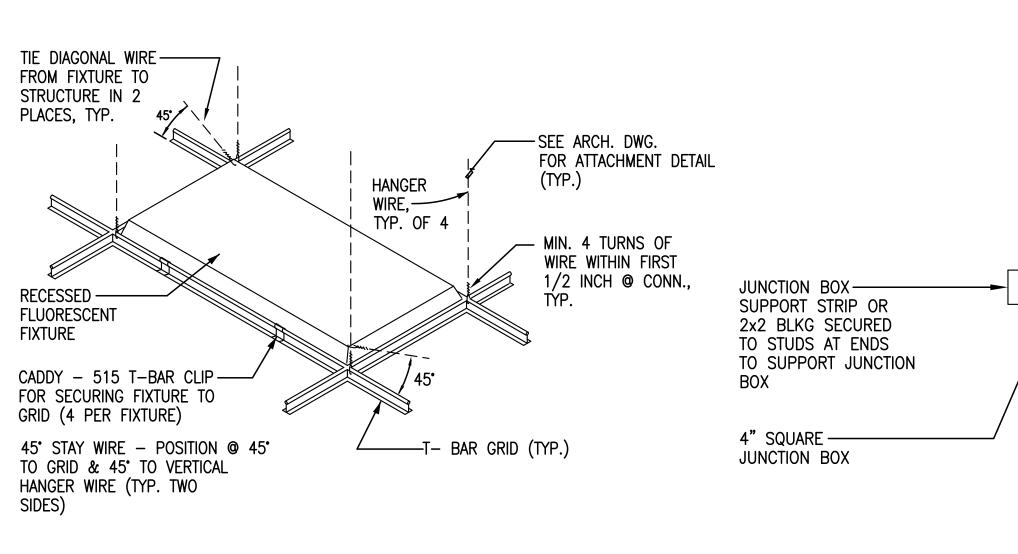


PENDANT LIGHTING FIXTURE DETAIL NOT TO SCALE E4.1



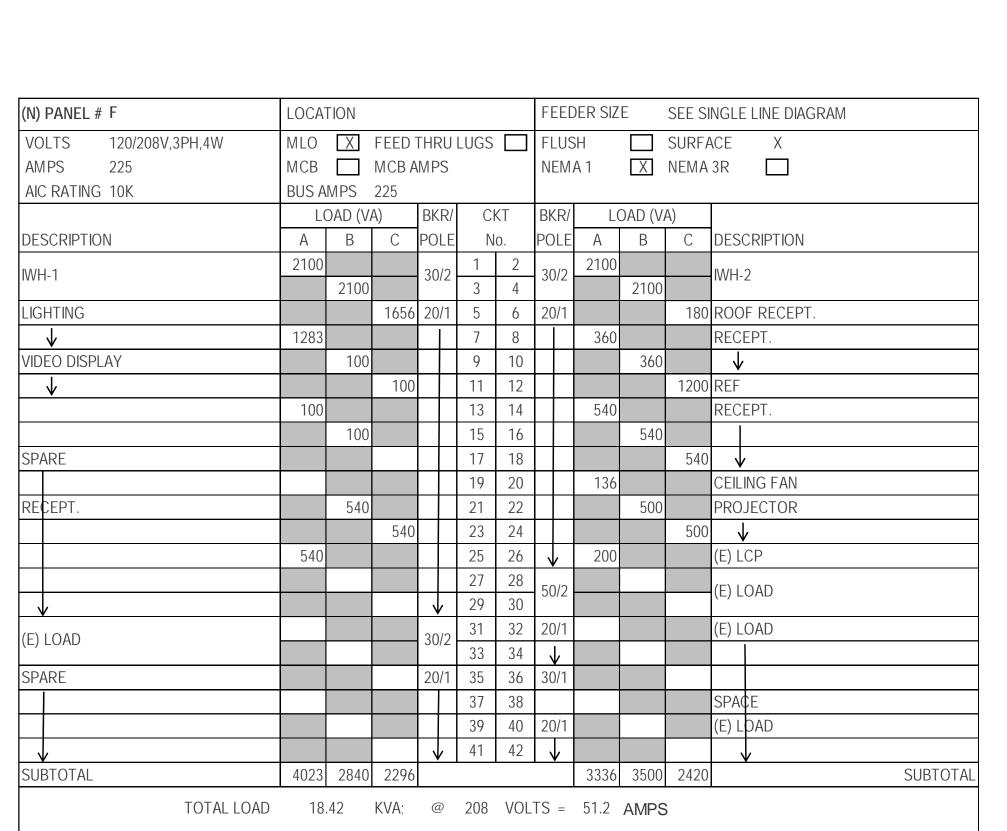


PARTIAL SINGLE LINE DIAGRAM NOT TO SCALE E4.1



TYPICAL SUPPORT REQUIREMENTS FOR RECESSED LIGHT FIXTURES E4.1 NOT TO SCALE





SHEET NOTES:

- (1) REPLACE (E) 70A/3P CIRCUIT BREAKER WITH A (N) ONE, SIZE AS SHOWN. (N) CIRCUIT BREAKER TYPE AND INTERRUPTING RATING SHALL MATCH (E).
- 2) RECONNECT (E) FEEDER TO (N) PANEL "F".
- (3) SEE ROOF PLAN FOR THE SIZE OF DISCONNECT SWITCH.

— CONDUIT

FINISHED WALL

- WALL MOUNTED CAMERA BACKPLATE

- PANASONIC

CAMERA

 $3/80 \times 2$ WOOD

(TYP.)

SCREWS TOTAL OF 4

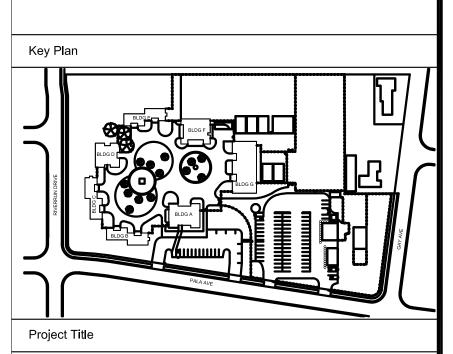
- WOOD STUD BLOCKING



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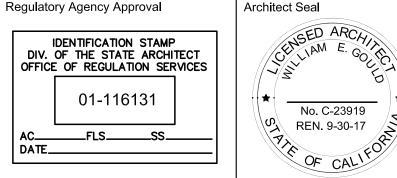
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EAST SIDE UNION HIGH SCHOOL DISTRICT

No	Revisions/Submissions	Date
-	100% Schematic Design	06.22.16
-	100% Design Development	07.14.16
	100% Construction Documents	08.05.16
	DSA Approval	12.15.16

SCHEDULES AND DETAILS



DSA File Number 43-H10 DSA Application Number 01-116131

135145

12.15.16

Drawing No

No. C-23919

REN. 9-30-17



ALL ELECTRICAL PANELS INVOLVED IN THIS PROJECT. THE PANEL DIRECTORIES SHALL REFLECT THE AS-BUILT CIRCUITS. ONE COPY OF THE SCHEDULE SHALL BE TAPED TO THE INSIDE OF THE PANEL DOOR, AND ONE COPY SHALL BE SUBMITTED TO THE

16. ALL ELECTRICAL EQUIPMENT SHALL BE BRACED OR ANCHORED TO RESIST A SEISMIC FORCE ACTING IN ANY DIRECTION USING

- a. THE TOTAL DESIGN LATERAL SEISMIC FORCE SHALL BE DETERMINED PER CALIFORNIA BUILDING CODE (CBC) 2013. FORCES SHALL BE APPLIED IN THE HORIZONTAL DIRECTIONS, WHICH RESULT IN THE MOST CRITICAL LOADING FOR DESIGN.
- b. THE VALUE OF AD (COMPONENT AMPLIFICATION FACTOR), RD (COMPONENT RESPONSE MODIFICATION FACTOR), Ca (SEISMIC COEFFICIENT) AND ID (SEISMIC IMPORTANCE FACTOR) BE DETERMINED PER CALIFORNIA BUILDING CODE (CBC) 2013.

WHERE ANCHORAGE DETAILS ARE NOT SHOWN ON THE DRAWINGS, THE FIELD INSTALLATION SHALL BE SUBJECT TO THE APPROVAL OF THE FIELD REPRESENTATIVE OF THE DIVISION OF THE STATE ARCHITECT.

- 17. CERTAIN REMODELING OF ELECTRICAL FACILITIES WILL BE REQUIRED IN THE EXISTING BUILDING. THE DRAWINGS SHOWING LOCATION OF EQUIPMENT IN EXISTING AREAS ARE APPROXIMATE ONLY. THE CONTRACTOR SHALL CONCEAL ALL WORK; IF THIS NOT POSSIBLE, SURFACE RACEWAY SUCH AS WIREMOLD SHALL BE USED ONLY WITH THE APPROVAL OF THE ARCHITECT AND OWNER.
- 18. THE CONTRACTOR SHALL BE HELD FULLY RESPONSIBLE FOR THE PROPER RESTORATION OF ALL EXISTING SURFACES REQUIRING PATCHING, PLASTERING PAINTING AND/OR OTHER REPAIRS DUE TO THE INSTALLATION OF ELECTRICAL WORK UNDER THE TERMS OF THIS SPECIFICATION. CLOSE ALL OPENINGS, REPAIR ALL SURFACES, ETC., AS REQUIRED. THIS SHALL INCLUDE ALL WALLS, CEILINGS, ROOFS, PAVEMENT, PLANTERS, ETC.
- 19. OUTLETS MOUNTED ON WALL BACK TO BACK SHALL MAINTAIN A MINIMUM HORIZONTAL DISTANCE OF 24" OR BE SEPARATED BY A STUD.
- 20. ALL EXPOSED CONDUITS, BOXES AND CABINETS INSTALLED IN FINISHED AREAS SHALL BE PAINTED TO MATCH COLOR OF ADJACENT WALL OR CEILING.
- 21. THE CONTRACTOR SHALL MAINTAIN AT THE JOB SITE, AN UP TO DATE "AS BUILT" DRAWING SET. THE "AS BUILT" DRAWING SET SHALL REFLECT ALL APPROVED CHANGES TO THE DESIGN DRAWINGS. THE "AS BUILT" DRAWING SET SHALL BE KEPT CLEAN AND IN GOOD CONDITION AND SHALL BE TURNED OVER TO THE OWNER AT THE COMPLETION OF THE PROJECT. THESE DRAWINGS SHALL BE UPDATED DAILY AND BE CHECKED WEEKLY BY IOR. THE PROGRESS PAYMENT IS TIED TO THEIR COMPLETION.
- 22. UPON COMPLETION OF THE WORK, THE CONTRACTOR SHAL SCHEDULE AND PERFORM A COMPLETE FUNCTIONAL TEST TO DEMONSTRATE TO THE OWNER THAT THE NEW INSTALLATION IS OPERATING AS INTENDED. ANY DEFECTS OR DEFICIENCIES IN THE MATERIALS OR WORK SHALL CORRECTED IMMEDIATELY BY AND AT THE CONTRACTOR'S EXPENSE.
- 23. PROVIDE ACCESSIBLE PANEL FOR HEAT DETECTOR ABOVE CEILING WHERE REQUIRED.

FIRE ALARM L E G E N D FIRE ALARM SYSTEM DESCRIPTION DESCRIPTION SYMBOL SYMBOL WIRING CONCEALED IN CEILING OR WALL FIRE ALARM CONTROL PANEL AND ASSOCIATED ____ LINE WEIGHT TOP TO BOTTOM= NEW, EXISTING COMPONENTS. PROVIDE 120V POWER AS REQUIRED TO REMAIN, FUTURE OR AS INDICATED. WIRING CONCEALED IN FLOOR OR UNDER GRADE OR ROUTED IN CEILING SPACE OF FLOOR BELOW. LINE WEIGHT TO BOTTOM= NEW, EXISTING _____ LOC LOCAL OPERATING CONSOLE WITH MICROPHONE AND ANNUNCIATOR REMOTE NOTIFICATION POWER SUPPLY WIRING EXPOSED. LINE WEIGHT TOP TO BOTTOM= NEW, EXISTING TO REMAIN, FUTURE SMOKE DETECTOR EXISTING ITEM TO BE REMOVED ABOVE CELING HEAT DETECTOR LOW VOLTAGE CABLE IN CONDUIT LV FIRE ALARM SYSTEM MANUAL PULL STATION, STROKES INDICATE QUANTITY OF #12 AWG. CONDUCTORS IF MORE THAN 3. UON. NOTE: WIRING STROKES FOR 20A BRANCH CIRCUITS ARE NOT SHOWN ON DRAWINGS. CONTRACTOR SHALL USE INFORMATION SPEAKER/STROBE (WALL MOUNTED) IN PANEL AND BRANCH CIRCUIT SCHEDULES TO PROVIDE REQUIRED CIRCUITING. ALL SHARED NEUTRAL SPEAKER (CEILING MOUNTED) SHALL BE #10 U.O.N. SPEAKER - WEATHERPROOF GROUND GROUND, ISOLATED NEUTRAL HOME RUN WIRING TO INDICATED DESTINATION, 3/4"C. MIN. OR AS OTHERWISE NOTED. CONTRACTOR L1A-1.3 SHALL USE CIRCUIT SIZES NOTED IN RESPECTIVE SCHEDULES AND INFORMATION IN THE FEEDER AND HD1A BRANCH CIRCUIT SCHEDULES. CONDUIT RUN TURNED UP THROUGH FLOOR OR CEILING. CORE & FIREPROOF AS REQUIRED. CONDUIT RUN TURNED DOWN THROUGH FLOOR OR CEILING, CORE & FIREPROOF AS REQUIRED. CONDUIT STUBBED OUT AT LOCATION SHOWN. PROVIDE INSULATED BUSHING & PULLROPE. RACEWAY STUBBED OUT FOR FUTURE CONTINUATION; CAP, MARK AND RECORD JUNCTION BOXES, WALL, CEILING AND FLUSH FLOOR MOUNTED. 4" SQ. BOX MIN., LARGER IF REQUIRED WIRING EXTENSION POINT - CONDUIT TO MC CABLE OR MANUFACTURED WIRING SYSTEM J-BOX ABOVE ACCESSIBLE CEILINGS AREAS, OR EXTEND CONDUIT & WIRE IN EXPOSED OR "HARD" CEILING AREAS. SHADED= ON ALT. POWER SOURCE (EMERG, UPS, ETC.) PULL BOX, MIN. SIZE PER NEC., UON. ~~~~ FLEXIBLE CONDUIT CONNECTION POWER CONNECTION TO DIV 15 FIRE/SMOKE DAMPER.

APPLICABLE CODES

GROUND ROD CONNECTION

LIGHTNING SYSTEM AIR TERMINAL

REFER TO FSD CONNECTION DETAIL IF NOT SHOWN

LOW VOLTAGE SYSTEM GROUND CONNECTION

GROUND ROD CONNECTION WITH TEST WELL BOX

. 2013 CALIFORNIA BUILDING STANDARDS ADMINISTRATIVE ALARM SYSTEM FOR BUILDING F. CODE (PART 1, TITLE 24, CCR)

2. 2013 CALIFORNIA BUILDING CODE (CBC), VOLUMES 1 & 2 (PART 2, TITLE 24, CCR) 3. 2013 CALIFORNIA ELECTRICAL CODE

(PART 3, TITLE 24, CCR) 4. 2013 CALIFORNIA MECHANICAL CODE

(PART 4, TITLE 24, CCR)

5. 2013 CALIFORNIA PLUMBING CODE (PART 5, TITLE 24, CCR)

6. 2013 CALIFORNIA ENERGY CODE (PART 6, TITLE 24, CCR)

7. 2013 CALIFORNIA ELEVATOR SAFETY CONSTRUCTION CODE (PART 7, TITLE 24, CCR)

8. 2013 CALIFORNIA FIRE CODE (PART 9, TITLE 24, CCR)

9. 2013 CALIFORNIA REFERENCE STANDARDS CODE (PART 12, TITLE 24, CCR)

10. NFPA 13, 2013 EDITION, THE INSTALLATION OF AUTOMATIC SPRINKLER SYSTEMS, AS AMENDED

11. NFPA 14, 2013 EDITION, THE INSTALLATION OF STANDPIPE, PRIVATE HYDRANT AND HOSE SYSTEMS

12. NFPA 24, 2013 EDITION, THE INSTALLATION OF PRIVATE FIRE SERVICE MAINS AND THEIR APPURTENANCES

13. NFPA 72, 2013 EDITION, NATIONAL FIRE ALARM CODE, AS AMENDED

FIRE ALARM SCOPE OF WORK

THE INTENT OF THIS PROJECT IS TO PROVIDE A COMPLETE FIRE

FIRE ALARM SYSTEM GENERAL NOTE

THE FIRE DETECTION AND ALARM SYSTEM, UPON ACTIVATION OF AN INITIATING DEVICE, SHALL ALERT ALL OCCUPANTS AND SHALL TRANSMIT THE ALARM SIGNAL TO AN APPROVED SUPERVISING CENTRAL MONITORING STATION.

NFPA 72 REQUIREMENTS

I. POWER SERVICE SHALL BE ON A DEDICATED BRANCH CIRCUIT WITH A RED MARKING AND IDENTFIED PER (NFPA 72 SEC. 10.6.5.2.2)

2. PROVIDE TEMPORAL— THREE DISTINCTIVE FIRE ALARM SOUND, (CFC SEC. 907.5.2.1.3, NFPA 72 SEC. 18.4.2.1).

3. AUDIBLE FIRE ALARM SOUND LEVEL SHALL BE AT LEAST 15 DBA ABOVE THE AVERAGE AMBIENT SOUND LEVEL IN ALL OCCUPINABLE AREAS. (NFPA 72 SEC. 18.4.3.1). (IE. CLASSROOM AVERAGE AMBIENT ROOM NOISE IS 45 DBA PLUS 15 DBA

4. STROBES SHALL FLASH AT A RATE OF NOT EXCEEDING TWO FLASHES PER SECOND NOR BELESS THAN ONE FLASH EVERY SECOND, (2013 NFPA 72 SEC. 18.5.3.1).

EQUALS = 60 DBA MINIMUM ALARM TONE REQUIRED)

5. FINAL FIRE ALARM TEST SHALL BE MADE WITH THE DSA INSPECTOR OF RECORD (IOR). LOCAL FIRE AUTHORITY SHALL BE TIME OF FINAL FIRE ALARM TESTING AND SHALL ASSIST/WITNESS SUCH TESTING WHEN ABLE.

6. FIRE ALARM CONTRACTOR SHALL PROVIDE A "RECORD OF COMPLETION" TO THE INSPECTOR OF RECORD (IOR)/DSA AFTER COMPLETION OF OPERATIONAL ACCEPTANCE TESTS, (2013 NFPA 72 SEC. 7.8.2 AND FIGURE 7.8.2).

ABBREVIATIONS

EXISTING TO REMAIN FUTURE EXISTING TO BE REMOVED EXISTING TO BE RELOCATED ABOVE COUNTER BACKSPLASH ACU AIR CONDITIONING UNIT ALTERNATING CURRENT AC

A, AMP AMPERES AMPERE (RATED) FUSE OR CB FRAME ABOVE FINISHED FLOOR ABOVE FINISHED GRADE ALUMINUM (ALLOY)

AUTOMATIC LIGHTING CONTROL AMPERE (RATED) SWITCH CIRCUIT BRKR TRIP SETTING (AMPS) AUTOMATIC TRANSFER SWITCH AUTO AUTOMATIC AUX **AUXILIARY** AMERICAN WIRE GAUGE AWG

BELL (FIRE ALARM) RAT BATTERY BELOW GRADE

CONDUIT (CIRCULAR RACEWAY) CAB CABINE1 CIRCUIT CKT

CLG CEILING CONDUIT ONLY COPPER DIRECT CURRENT DIVISION

DOUBLE POLE SINGLE THROW DWG DRAWING **ENCL ENCLOSURE**

ELECTRICALLY OPERATED END OF LINE EMERGENCY VOICE - ALARM COMMUNICATIONS.

FIRE ALARM FIRE ALARM ANNUNCIATOR FSD FIRE/SMOKE DAMPER

INSPECTION OF RECORD KEY OPERATED MAX MAXIMUM MINIMUM

GROUND

MTD MOUNTED MOTOR MTR NORMALLY CLOSED NATIONAL ELECTRICAL CODE NORMALLY OPEN NOT TO SCALE

NAMEPLATE ON CENTER +,POS POSITIVE

REQD RIGID NON-METALLIC CONDUIT (PVC) REMOTE SIGNAL EXPANDER REMOTE STATION TRANSMITTER

S.A.D. SEE ARCHITECTURAL DRAWINGS

UNDERWRITERS LAB

UNLESS OTHERWISE NOTED UNINTERRUPTIBLE POWER SUPPLY

FIRE ALARM SYSTEM INFORMATION alarm system drawings shall reflect the following minimum information on the cover sheet: Campus Address: 230 PALA AVENUE, SAN JOSE, CA 95127 2013 California Building Code (CBC), Part 2, Title 24, C.C.R. (2012 IBC with 2013 California Amendments) 2013 California Electric Code (CEC), Part 3, Title 24, C.C.R. (2011 NEC with 2013 California Amendments) 2013 California Fire Code (CFC), Part 9, Title 24, C.C.R. (2012 IFC with 2013 California Amendment: CCR Title-19, Public Safety, State Fire Marshal Regulations NFPA 72, National Fire Alarm and Signaling Code, 2013 edition (CA Amended) UL 38, Manual Operating Signal Boxes, 1999 edition w/ revisions through February 2, 2005 as amended. IL 268A, Smoke Detectors Durt Applications, 1998 edition w/revisions through October 22, 2003 UL 521, Heat Detectors for Fire Protective Signaling Systems, 1999 edition UL 864, Control Units for Fire Protective Signaling Systems, 2003 edition w/revisions through July 14, 2005

System Installer [Specific Name]: Building Occupancy Classification(s): ■ Group E (Educational K-12) ☐ Group A (Assembly) Group B (Office/Educational - Community College) Building Construction Type(s): ☐ Type IA ☐ Type IB ☐ Type IIA ☐ Type IIB ☐ Type IIIA ☐ Type IIIB ☐ Type IV ☐ Type VA ☐ Type VB ☐ Manual ☐ Automatic ☑ Manual and Automatic System Classification: Emergency Communication System:

One-way Emergency Communication System Distributed Recipient Mass Notification System ☐ In-building Mass Notification System ☐ In-building Fire Emergency/Voice Communication System ☐ Wide Area Mass Notification System Two-way Emergency Communication System ☐ In-building Emergency Communication System

IDC's Class A MIClass B Class C Class D Class E Class X
SLC's Class A MIClass B Class C Class D Class E Class X NAC's □ Class A ☑ Class B □ Class C □ Class D □ Class E □ Class X Pathway Survivability:

X Level 0 □ Level 1 □ Level 2 □ Level 3

FIRE ALARM DRAWING LIST

FIRE ALARM COVER SHEET

FIRE ALARM PLAN

FIRE ALARM SITE PLAN

FIRE ALARM RISER DIAGRAM,

VOLTAGE DROP, BATTERY CALCULATION, EQUIPMENT LIST AND LEGEND

FIRE ALARM DETAILS

INSTALLATION REQUIREMENTS.

EQUIPMENT BACKBOXES.

FIRE ALARM SYSTEM NOTES

ALL WIRING SHALL BE IN CONDUIT, U.O.N. MINIMUM CONDUIT SIZE SHALL BE 3/4"C.

PROVIDE AND INSTALL ALL CONDUIT, BOXES, CONDUCTORS, POWER SUPPLY, RELAYS, ZONE MODULES, CARDS, SWITCHES ETC. FOR A COMPLETE AND OPERABLE FIRE ALARM SYSTEM.

3. ALL REQUIREMENT OF CONTRACT SPECIFICATIONS AND DRAWING APPLY.

INSTALLATION SHALL CONFORM TO REQUIREMENTS OF APPLICABLE ELECTRICAL CODES.

5. TEE-TAP INSIDE BUILDING IN JUNCTION BOX. USE TERMINAL BLOCKS. 6. FIRE ALARM FIELD WIRING SPECIFICATIONS FOR ADDITIONAL

120VAC 60Hz INPUT POWER FOR FIRE ALARM CONTROLS SHALL BE A DEDICATED, LOCKING BREAKER PROPERLY LABELED "SOURCE FROM LINE OF MAIN DISCONNECT" OR "EMERGENCY POWER".

8. ALL WIRING INCLUDING SHIELDS MUST BE DRY AND FREE OF SHORTS AND GROUNDS. 9. 120VAC IS NOT PERMITTED IN SAME CONDUIT WITH LOW VOLTAGE WIRING.

10. DO NOT APPLY POWER EXCEPT IN THE PRESENCE OF A FACTORY-TRAINED FIRE ALARM TECHNICAL REPRESENTATIVE.

11. THERE WILL BE NO CONDUIT ENTRY ALLOWED 18" OR LOWER ON THE SIDE PANELS OR THROUGH THE BOTTOM OF ALL CONTROL

12. ALL VISUAL ALARM IN EVERY ROOMS OR EXTERIOR WHERE OCCUR SHALL BE SYNCHRONIZED.

13. VISUAL DEVICE SHOULD NOT EXCEED 2 FLASHES PER SECOND AND SHOULD NOT BE SLOWER THAN 1 FLASH EVERY SECOND. THE DEVICE SHALL HAVE A PULSING LIGHT SOURCE THAT MEETS NFPA STROBE INTENSITY REQUIREMENTS WHICH VARIES WITH VIEWING CONDITIONS AND ROOM SIZES.

14. UNDERGROUND AND EXTERIOR CONDUITS TO HAVE WATER-TIGHT TITTINGS AND WIRES TO BE APPROVED FOR WET LOCATIONS.

15. AUDIBLE DEVICE(S) TO BE AT LEAST 15dBA ABOVE THE EQUIVALENT SOUND LEVEL BUT NOT LESS THAN 75dBA AT 10' OR MORE THAN 110dBA AT THE MINIMUM HEARING DISTANCE.

16. AUDIBLE DEVICE SHALL SOUND THE CALIFORNIA UNIFORM FIRE ALARM SIGNAL.

17. FINAL FIRE ALARM TEST SHALL BE MADE WITH THE DSA INSPECTOR OF RECORD (IOR). LOCAL FIRE AUTHORITY SHALL BE NOTIFIED OF DATA AND TIME OF FINAL FIRE ALARM TESTING

AND SHALL ASSIST/WITNESS SUCH TESTING WHEN ABLE. 18. FIRE ALARM CONTRACTOR SHALL PROVIDE A COMPLETED AND SIGNED" CERTIFICATE OF COMPLETION" AFTER COMPLETION OF OPERATIONAL ACCEPTANCE TESTS. (NFPA 72 SEC. 7.8.2 &

19. PROVIDE TEMPORAL THREE DISTINCTIVE FIRE ALARM SOUND (CFC SEC. 907.5.2.1.3 NFPA 72 SEC. 18.4.2.1)

20. POWER SERVICE SHALL BE ON A DEDICATED BRANCH CIRCUIT WITH RED MARKING AND IDENTIFIED PER NFPA SEC 10.6.5.2.2

. WIRING AND MATERIALS SHALL BE PER CEC/NEC ART. 760. 22. NFPA 72 (2013) SEC. 24.3.2.1 ALL USERS OF SYSTEMS THAT HAVE MICROPHONES FOR LIVE VOICE ANNOUNCEMENTS SHALL BE PROVIDED

WITH POSTED INSTRUCTIONS FOR USING THE MICROPHONE. 23. NFPA 72 (2013) SEC. 7.7.2.1 WITH EVERY NEW SYSTEM, A DOCUMENTATION CABINET SHALL BE INSTALLED AT THE SYSTEM CONTROL UNIT OR AT ANOTHER APPROVED LOCATION AT THE PROTECTED PREMISES.

24. NFPA 72 (2013) SEC. 7.7.2.2 ALL RECORD DOCUMENTATION SHALL BE STORED IN THE DOCUMENTATION CABINET.

25. NFPA 72 (2013) SEC. 7.7.2.2 THE DOCUMENTATION CABINET SHALL BE PROMINENTLY LABELED "SYSTEM RECORD DOCUMENTS".

26. NFPA 72 (2013) SEC. 7.7.2.4 THE DOCUMENTATION CABINET SHALL BE PROMINENTLY LABELED "SYSTEM RECORD DOCUMENTS".

27. NFPA 72 (2013) SEC. 7.5.6.2 THE RECORD OF COMPLETION DOCUMENTATION SHALL BE COMPLETED BY THE INSTALLING CONTRACTOR AND SUBMITTED TO THE DSA PROJECT INSPECTOR AND THE SCHOOL DISTRICT AT THE CONCLUSION OF THE JOB.

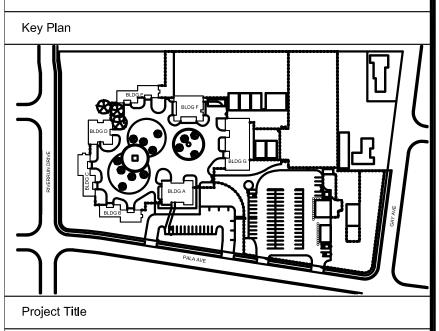
28. NFPA 72 (2013) SEC. 7.5.6.4 THE RECORD OF COMPLETION DOCUMENTATION SHALL BE UPDATED TO REFLECT ALL SYSTEM ADDITIONS OR MODIFICATIONS AND MAINTAINED IN A CURRENT CONDITION AT ALL TIMES.



394-A Umbarger Rd San Jose, CA 95111 Phone 408.224.9890 Fax 408.224.9891 www.ArtikA3.com







FOOTHILL HIGH SCHOOL HOOPER HALL AND **QUAD MODERNIZATION**

230 PALA AVENUE SAN JOSE, CA 95127

EAST SIDE UNION HIGH SCHOOL DISTRICT

No	Revisions/Submissions	Date
-	100% Schematic Design	06.22.16
-	100% Design Development	07.14.16
	100% Construction Documents	08.05.16
	DSA Approval	12.15.16

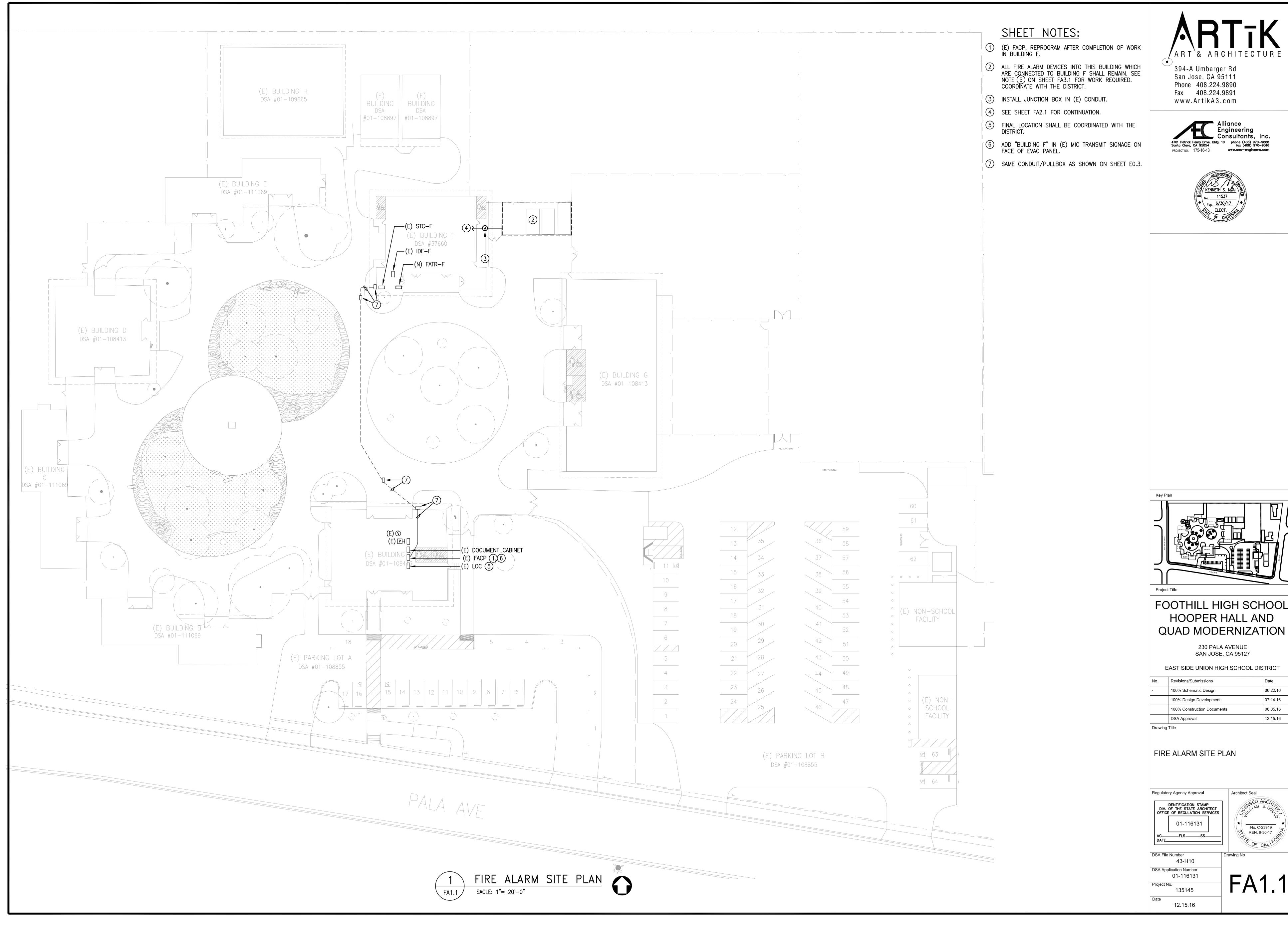
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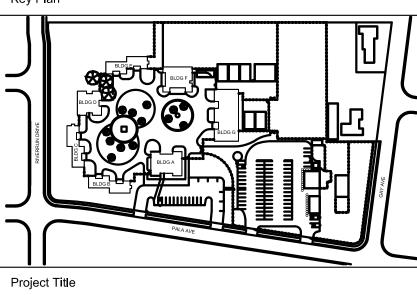
FIRE ALARM COVER SHEET

Regulatory Agency Approval



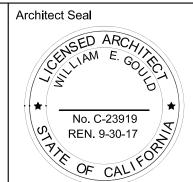
43-H10 DSA Application Number 01-116131 135145

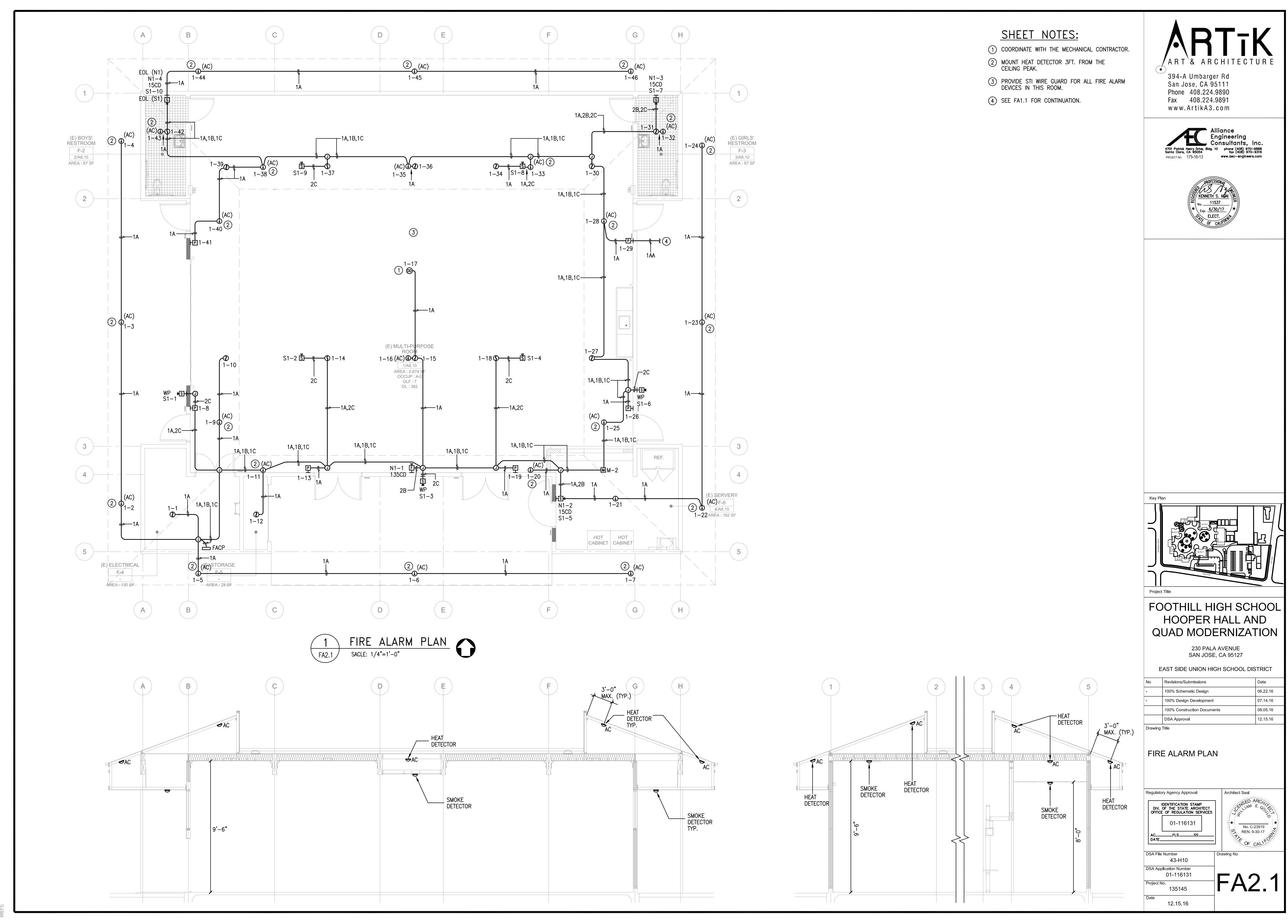




QUAD MODERNIZATION

No	Revisions/Submissions	Date
_	100% Schematic Design	06.22.16
-	100% Design Development	07.14.16
	100% Construction Documents	08.05.16
	DSA Approval	12.15.16
		_





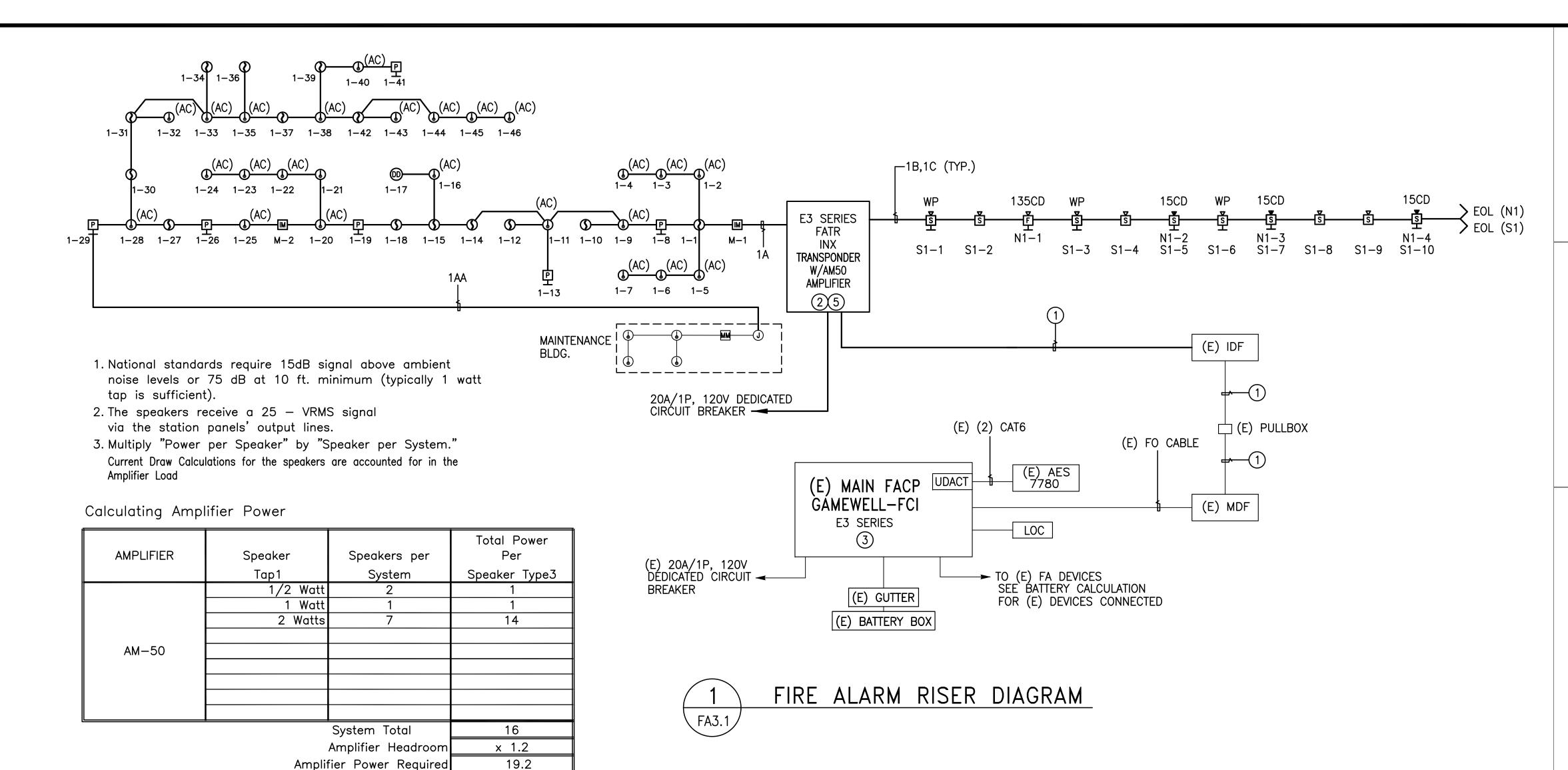
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SHEET NOTES:

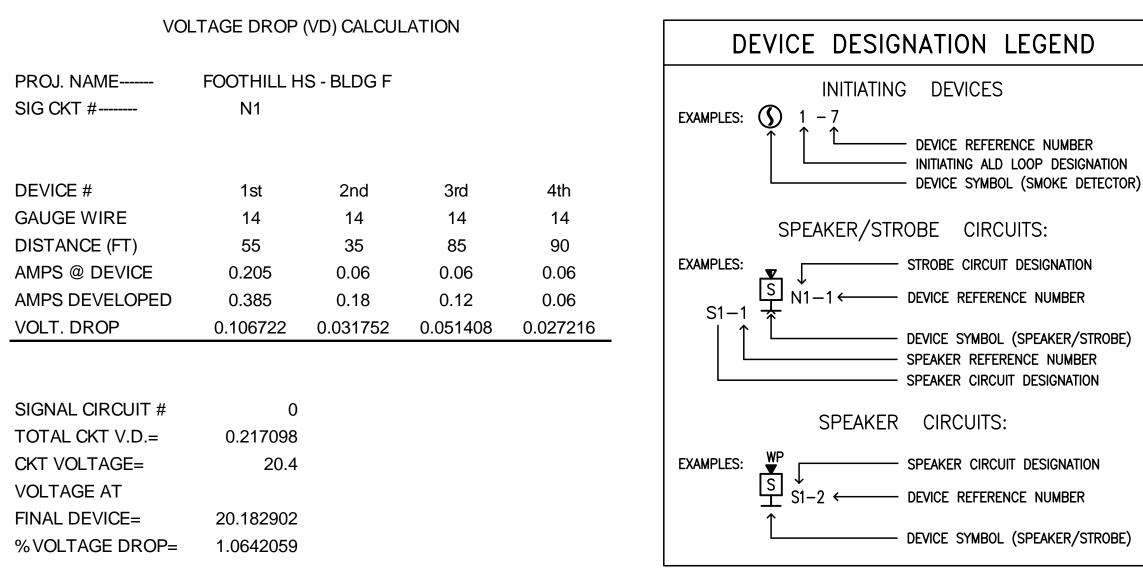
- 1) SAME F/O CABLE AS SHOWN ON SHEET E2.1.
- (2) COORDINATE WITH DATA CONTRACTOR. 3 SEE NOTE 1 ON SHEET FA1.1 FOR OTHER WORK REQUIRED.
- 4 FIRE ALARM SYSTEM INFORMATION OBTAINED FROM FIRE ALARM MODERNIZATION PROJECT A #01-116298 THIS MODERNIZATION PROJECT A #01-110290
 THIS MODERNIZATION PROJECT INCLUDES UPGRADING
 AND REPLACING (E) MAIN FIRE ALARM CONTROL PANEL
 WITH (N) COAMEWELL FCI-E3 SERIES COMPONENTS
 AND EQUIPMENTS FOR EVAC.
- (5) ALL (E) DEVICES FROM OTHER BUILDING TIED INTO THIS BUILDING SHALL BE RECONNECTED. (E) WIRES AND CONDUITS SHALL BE RECONNECTED. (E) WIRES
 AND CONDUITS SHALL BE PROTECTED. EXTEND CONDUIT
 AND WIRES INTO THE (N) DEVICE. PROVIDE ALL
 NECESSARY CONNECTORS AND CARDS FOR THE (E) FA
 DEVICE INCLUDE ALL (E) FA DEVICES IN PROGRAMING
 THE (N) FACP. COORDINATE WITH THE DISTRICT FOR
 TRANSITION SCHEDULING.

F	FIRE ALARM WIF	RING LEGEND
SYMBOL	WIRE TYPE	USED ON
	2-CONDUCTOR, #16 AWG SOLID BARE COPPER UNSHIELDED (D990)	ADDRESSABLE ALARM INITIATING DEVICES: — SMOKE & HEAT DETECTORS — INTERFACE MODULES
B	2-CONDUCTOR, #14 AWG FPL STRANDED (BLACK/RED) (994S)	AUDIO/VISUAL FROM RSB OR FACP INDICATING DEVICES: - (SYNC HORN/STROBE CIRCUITS)
<u> </u>	2-CONDUCTOR, #12 AWG FPL STRANDED (BLACK/RED) (296)	SPEAKER WIRE FROM AMPLIFIER
AA	2-CONDUCTOR, #16 AWG SOLID BARE COPPER UNSHIELDED (AQ225)	ADDRESSABLE ALARM INITIATING DEVICES: — SMOKE & HEAT DETECTORS — INTERFACE MODULES
BB —	2-CONDUCTOR, #14 AWG FPL STRANDED (BLACK/RED) (AQ226)	AUDIO/VISUAL FROM RSB OR FACP INDICATING DEVICES: - (SYNC HORN/STROBE CIRCUITS)
	2-CONDUCTOR, #12 AWG THHN SOLID (GROUNDED WIRE)	120 VAC POWER WIRING TO: - F.A. CONTROL PANEL - POWER SUPPLY PANEL

		FIRE ALA	RM EQUIPMENT LIST	
	MANUFACTURER	MODEL	DESCRIPTION	CSFM NUMBER
FACP	GAMEWELL-FCI	E3 SERIES	FIRE ALARM CONTROL PANEL	7165–1703: 0125
LOC	GAMEWELL-FCI	E3 SERIES LOC	LOCAL OPERATING CONSOLE INCLUDES: E3BB-BAA, E3ID3-A, 1100-1321, 1100-0452, 1100-0455, 1100-04-5, 90492	7165–1703: 0125
_				7165-1703: 0125
AMP	GAMEWELL-FCI	AM-50	REMOTE POWER SUPPLY 50 WATT AMPLIFIER	7165-1703: 0125
FATR	GAMEWELL-FCI	INX	FIRE ALARM TRANSPONDER	7165–1703: 0125
ΗP	GAMEWELL-FCI	MS-7	MANUAL PULL STATION	7150–1703: 0109
	GAMEWELL-FCI	STI-1200	VANDAL COVER	
0	GAMEWELL-FCI	ASD-PL2F	PHOTOELECTRIC SMOKE DETECTOR	7272-1703: 012
(b)	GAMEWELL-FCI	ATD-RL2F	HEAT DETECTOR, RATE-OF-RISE	7270-1703: 0115
(AC)	GAMEWELL-FCI	ATD-HL2F	HEAT DETECTOR ABOVE CEILING WITH 190° FIXED TEMPERATURE	7270-1703: 0115
	GAMEWELL-FCI	B210LP	SMOKE/HEAT DETECTOR MOUTING BASE	7272-1703: 0121
	GAMEWELL-FCI	ASD-PL2F-DNR	DUCT SMOKE DETECTOR + HOUSING	7272-1703: 0121
IM	GAMEWELL-FCI	XP95-LIH	ISOLATOR MODULE	7300–1703: 015
ММ	GAMEWELL-FCI	AMM-2F	MONITOR MODULE	7300–1703: 010:
HE₽	GAMEWELL-FCI	SR	STROBE SET AT 15CD/30CD/75CD/110CD (RED)	7125–1653: 0186
HS◀	GAMEWELL-FCI	SPSR	WALL MOUNTED SPEAKER/STROBE SET AT 15CD/30CD/75CD/110CD (RED)	7125-0785: 0152
S⊲	GAMEWELL-FCI	SPCW	CEILING MOUNTED SPEAKER	7320–1653: 020
HS⊲ WP	WHEELOCK	ET1010	WEATHERPROOF EXTERIOR SPEAKER	7125-0785: 010
	POWER SONIC	PS-12260	BATTERY 12V, 26AH	
	POWER SONIC	PS-121000	BATTERY 12V, 100AH	
	West Penn	D990	2 #16 AWG, TWISTED PAIR CABLE	7161-0859: 0101
	West Penn	994S	2 #14 AWG, TWISTED PAIR CABLE	7161-0859: 0101
	West Penn	296	2 #12 AWG, TWISTED PAIR CABLE	7161-0859: 0101
	West Penn	AQ225	2 #16 AWG, TWISTED PAIR CABLE	7161-0859: 0101
	West Penn	AQ226	2 #14 AWG, TWISTED PAIR CABLE	7161-0859: 0101



	CSFM NUMBER
	7165–1703: 0125
1321,	7165–1703: 0125
	7405 4707 0405
	7165–1703: 0125
	7165–1703: 0125
	7165–1703: 0125
	7150-1703: 0109
	7272-1703: 0121
	7270-1703: 0115
	7270–1703: 0115
	7272-1703: 0121
	7272-1703: 0121
	7300-1703: 0153
	7300-1703: 0102
	7125-1653: 0186
	7125-0785: 0152
	7320–1653: 0201
	7125-0785: 0105
	7161-0859: 0101
	7161-0859: 0101
	7161-0859: 0101
	7161-0859: 0101
	7161-0859: 0101



(N) (1) 50 Watt Power Amplifier Gamewell AM-50 is supplied

(N) (1) 50 Watt Power Amplifier Gamewell AA-50 is supplied (Back-up)

							FA SYS	STEM OF	PERATIO	NAL MA	TRIX									
					ALA	ARM				TROUBL	_E	S	UPERV	SORY			MISC	•		
CAUSE	EFFECT	ALARM AT FACP	ALARM AT ANNUNCIATOR	ALARM AT OFF SITE REPORTING	ACTIVATE F.A. PANEL	ACTIVATE AUDIBLES	ACTIVATE VISUALS	ACTIVAE AUDIO/VISUALS	TROUBLE AT FACP	TROUBLE AT ANNUNCIATOR	TROUBLE AT OFF SITE REPORTING	SUPERVISORY AT FACP	SUPERVISORY AT	SUPERVISORY AT OFF SITE REPORTING	FAN SHUT DOWN D	DEACTIVATE ASSEMBY AREA AUDIO SYSTEM	RETURN ASSEMBY AREA LIGHTING TO 100%	RELEASE SECURED DOORS E	SHUT FIRE SMOKE DAMPER E	REMARKS
DUCT SMOKE DETECTOR	_							 	1			X		X	X				X	В
SMOKE DETECTOR		Х	Х	X	Х	Х	Х	X		1					X	Х	X		Х	А
HEAT DETECTOR		Х	Х	Х	Х	Х	Х	X							Х	Х	Х		Х	А
MANUAL PULL STATION		Х	Х	Х	Х	Х	Х	Х							X	Х	Х	X	X	Α
FIRE RISER FLOW SWITCH		Х	Х	Х	Х	Х	Х	Х							Х	Х	Х	Х	Х	Α
FIRE RISER TAMPER SWITCH												X	X	X						В
SYSTEM RESET																				
SIGNAL SILENCE									X	Х	Х									С
AC POWER FAILURE									X	X	X									С
FIRE ALARM TROUBLE (OPEN, SHORTS, OR GROUNDS) ON INITIATION OR SIGNALING CIRCUITS									Х	Х	Х									С
REMAR	RKS:																			
	A.			NOWLE L INITIA					., UNIT AN	ID REMO	OTE ANN	UNCIA ⁻	TOR, SIL	ENCE AU	DIBLE AL	ARM L,	VISUAL	ALARM		
	R								Ι ΙΝΙΤ ΔΝ	ID REMO	OTE ANN	ΠΝΟΙΔ.	TOR SII	ENCE AU	OIBLE SI	 PFR\/IS	ORY SI	GNAI		
	υ.								ING SUPE					LINGE AUI				○14/ \L,		
	С													ENCE AU	OIBI F TR	OUBLE	SIGNAL			
	<u> </u>								ING TROU									-,		
	D												AND DI	CT SMOKE	DETEC	TORS A	L RE ACT	IVATED		
									ROUGHO											
	F								IITIATED I											

			SUP	ERVIS	ORY		ALARM			
QTY (E)	QTY		DRAW	TOTAL	TOTAL	DRAW	TOTAL	TOTAL		
(E)	(N)	PANEL		(E)	(N)		(E)	(N)		
	1	ILI95-MB-E3 MASTER BOARD	0.081	0	0.081	0.15	0	0.150		
	1	PM-9 POWER SUPPLY MODULE	0.001	0	0.050	0.15	0	0.150		
	1	RPT-E3 NETWORK MODULE	0.03		0.030	0.013	0	0.03		
	0	ASM-16 AUXILARY SWITCH CARD	0.013	0	0.000	0.013	0	0.000		
	1	INI-VGX NETWORK VOICE GATEWAY	0.15		0.150	0.011	0	0.000		
	1	AM-50 AMPLIFIER 50 WATT	0.086		0.086	2.206	0	2.20		
	1	INI-VGC VOICE GATEWAY COM CENTER	0.000		0.150	0.15	0	0.15		
	0	MICROPHONE	0.001	0	0.000	0.001	0	0.00		
	0	ANX NETWORK EXPANDER	0.066		0.000	0.066	0	0.000		
	0	FPT-GATE-E3 FOCAL POINT GATEWAY	0.45		0.000	0.000	0	0.000		
	U	PANEL TOTAL	0.40	0	0.530	0.43	U	2.719		
		AUDIO AMPLIFIER								
	1	AM 50-25	0.086	0	0.0860	2.206	0	2.2060		
	I	1/4-WATT SPEAKER	0.000	U	0.0600	0.01	0	0.000		
	0	1/2-WATT SPEAKER					0			
	0					0.02	0	0.0000		
	2	1-WATT SPEAKER 2-WATT SPEAKER				0.04	0	0.160		
		DEVICES								
	14	ASD-PL2F SMOKE DETECTOR	0.0003			0.0065	0	0.0910		
	25	ATD-RL2F HEAT DETECTOR	0.0003		0.00.00	0.0065	0	0.162		
	0	AMM-2F MONITOR MODULE	0.0008		0.000	0.0014	0	0.0000		
	2	XP-95-LIH ISOLATOR MODULE	0.0008			0.0014	0	0.0028		
	0	AOM-2RF RELAY MODULE	0.0008	-	0.000	0.0015	0	0.0000		
	6	MS-7 MANUAL PULL STATION	0.0005	-		0.0015	0	0.0090		
	1	ASD-PL2F-DNR DUCT DETECTOR	0.0008	0	0.0008	0.0014	0	0.0014		
	3	15cd SPSR SPEAKER STROBE				0.066	0	0.198		
	0	30cd SPSR SPEAKER STROBE				0.094	0	0.000		
	0	75cd SPSR SPEAKER STROBE				0.158	0	0.000		
	0	110cd SPSR SPEAKER STROBE				0.202	0	0.0000		
	1	135cd SR STROBE				0.228	0	0.2280		
		TOTAL DEVICES		0	0.1031		0	3.2187		
		TOTAL DRAW (PANEL + DEVICES)		0	0.6331		0	5.937		
		X 24 HOURS ALARM	24	24	24	0.25	0.25	0.2		
		SUBTOTAL		0	15.1944		0	1.48443		
		TOTAL SUPERVISE (1)	15.1944	AH		1.48443	AH			
	T		00.01							
	TOT	AL DRAW= (1) + (2) + 20%	20.01	IAH						

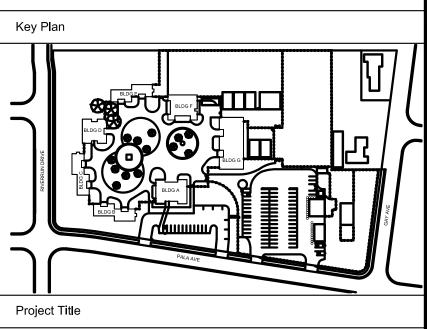
E3 SERIES / INX TRANSPONDER (FATR)



394-A Umbarger Rd San Jose, CA 95111 Phone 408.224.9890 Fax 408.224.9891 www.ArtikA3.com







FOOTHILL HIGH SCHOOL HOOPER HALL AND **QUAD MODERNIZATION**

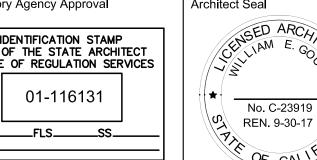
230 PALA AVENUE SAN JOSE, CA 95127

EAST SIDE UNION HIGH SCHOOL DISTRICT

No	Revisions/Submissions	Date
-	100% Schematic Design	06.22.16
-	100% Design Development	07.14.16
	100% Construction Documents	08.05.16
	DSA Approval	12.15.16
Drawing ²	Title	

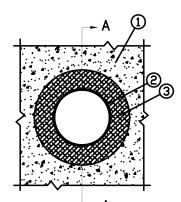
FIRE ALARM RISER DIAGRAM, **VOLTAGE DROP, BATTERY** CALCULATION, EQUIPMENT LIST AND LEGEND

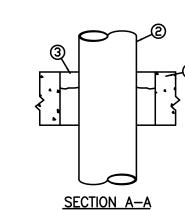
Regulatory Agency Approval



DSA File Number DSA Application Number

01-116131 135145





FLOOR OR WALL ASSEMBLY - MIN 4-1/2 IN. THICK LIGHTWEIGHT OR NORMAL WEIGHT CONCRETE. WALL MAY ALSO BE CONSTRUCTED OF ANY UL CLASSIFIED CONCRETE BLOCKS. MAX THROUGH OPENING SIZE IS 12.4 SQ. IN.

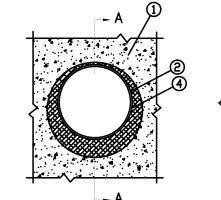
SEE CONCRETE BLOCKS (CAZT) CATEGORY IN FIRE RESISTANCE DIRECTORY FOR NAMES OF MANUFACTURERS.

2. PIPE OR CONDUIT - NOM. 10 IN. DIA. (OR SMALLER) SCHEDULE 10 (OR HEAVIER) STEEL PIPE, NOM 6 IN. DIA. (OR SMALLER) RIGID STEEL CONDUIT, NOM 4 IN. DIA. (OR SMALLER) STEEL EMT OR NOM 3 IN. DIA. (OR SMALLER). TYPE L (OR HEAVIER) COPPER PIPE. MAX ONE PIPE OR CONDUIT PER THROUGH OPENING. MAX ANNULAR SPACE BETWEEEN PIPE OR CONDUIT AND EDGE OF OPENING IS 3/4 IN. MIN ANULAR SPACE BETWEEN PIPE OR CONDUIT AND EDGE OF OPENING IS 0 IN. (POINT CONTACT). PIIPE OR CONDUIT TO BE RIGIDLY SUPPORTED ON BOTH SIDES OF FLOOR OR WALL ASSEMBLY.

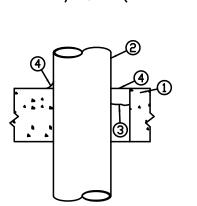
3. FILL VOID OR CAVITY MATERIALS — PUTTY—MOLDABLE PUTTY MATERIAL KNEEDED BY HAND AND APPLIED TO FILL ANNULAR SPACE TO A MIN DEPTH OF 1 IN FLUSH WITH TOP SURFACE OF FLOOR. IN WALL ASSEMBLIES, REQUIRED PUTTTY THICKNESS TO BE INSTALLED SYMMETRICALLY ON BOTH SIDES OF WALL.

MINNESOTA MINING & MFG. CO.- MPS-2+. BEARING THE UL CLASSIFICATION MARKING.

> SYSTEM NO. CAJ1044 (Formerly System No. 319) T RATING - 0 HR L RATING AT AMBIENT - 2 CFM/SQ FT (SEE ITEM 4) L RATING AT 400 F - LESS THAN 1 CFM/SQ FT (SEE ITEM 4)



RESISTANCE DIRECTORY FOR NAMES OF MANUFACTURER



SECTION A-A

1. FLOOR WALL ASSEMBLY-LIGHTWEIGHT OR NORMAL WEIGHT (100-150 PCF) CONCRETE. EXCEPT AS NOTED IN TABLE UNDER ITEM 4, MIN THICKNESS OF SOLID CONCRÈTE FLOOR OR WALL ASSEMBLY IS 4-1/2 IN. FLOOR MAY ALSO BE CONSTRUCTED OF ANY MIN 6 IN. THICK UL CLASSIFIED HOLLOW-CORE. PRECOAT CONCRETE UNITS. WHEN FLOOR IS CONSTRUCTED OF HOLLOW-CORE PRECOAT CONCETE UNITS, PACKING MATERIALS (ITEM 3) AND CAULK FILL MATERIAL (ITEM 4) TO BE INSTALLED SYMETRYCALLY ON BOTH SIDES OF THE FLOOR, FLUSH WITH FLOOR SURFACE. WALL ASSEMBLY MAY ALSO BE CONSTRUCTED OF CLASSIFIED CONCRETE BLOCKS. MAX DIA. OF OPENING IS 32 IN. SEE CONCTRETE BLOCKS (CAZT) AND PRECAST CONCRETE UNITS (CFTV) CATEGORY IN THE FIRE

1A. STEEL SLEVE - (OPTIONAL NOT SHOWN) NOM 16 IN. (OR SMALLER) SCHEDULE 10 (ORHEAVIER) STEEL SLEEVE CAST OR GROUTED INTO FLOOR OR WALL ASSEMBLY. SLEEVE MAY EXTEND A MAX OF 2 IN. ABOVE TOP FLOOR OR BEYOND EITHER SURFACE OF WALL.

2. PIPE OR CONDUIT - NOM 30 IN.DIA. (OR SMALLER) CAST IRON OR SCHEDULE 10 (OR HEAVIER) STEEL PIPE, NOM 6 IN. DIA. (OR SMALLER) STEEL CONDUIT, NOM 3 IN. DIA. (OR SMALLER) TYPE L (OR HEAVIER) COPPER TUBE OR NOM 4 IN. DIA. (OR SMALLER) STEEL ELECTRICAL METALIC TUBING. MAX ANNU:AR SPACE BETWEEN PIPE OR CONDUIT AND EDGE OF THROUGH OPENING NOT TO EXCEED 2 IM. MIN ANNULAR SPACE BETWEEN PIPE OR CONDUIT AND EDGE OF THROUGH OPENING IS 0 IN. (POINT CONTACT). PIPE OR CONDUIT TO BE RIGIDLY SUPPORTED ON BOTH SIDE OF FLOOR OR WALL ASSEMBLY.

3. PACKING MATERIAL - POLYETHYLENE BACKER ROD OR NOM 1 IN. THICKNESS OF THIGHTLY-PACKRD MINERAL WOOL BATT OR GLASS FIBER INSULATION FIRMLY PACKED INTO OPENING AS A PERMANENT FORM. PACKING MATERIAL TO BE RECESSED FROM TOP SURFACE OF FLOOR OF FROM BOTH SURFACES OF WALL AS REQUIRED TO ACCOMODATE THE REQUIRED THICKNESS OF CAULK FILL MATERIAL (ITEM 4).

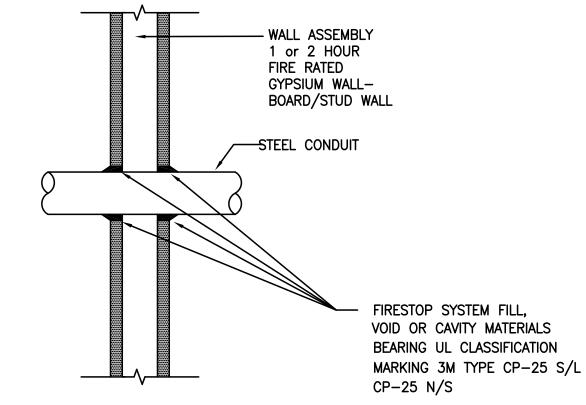
4. FILL, VOID OR CAVITY MATERIAL - CAULK - APPLIED TO FILL THE ANNULAR SPACE FLUSH WITH TOP SURFACE OF FLOOR. IN WALL ASSEMBLIES, REQUIRED CAULK THICKNESS TO BE INSTALLED SYMMETRICALLY ON BOTH SIDES OF WALL, FLUSH WITH WALL SURFACE. THE HOURLY F RATING AND THE MIN REQUIRED CAULK THICKNESS ARE DEPENDENT UPON A NUMBER OF PARAMETERS, AS SHOWN ON THE FOLLOWING TABLE.

MIN FLOOR	NOM PIPE	MAX	MAX	
OR WALL	TUBE OR CONDUIT	ANNULAR	CAULK	F
THKNS, IN	DIA. IN.	SPACE, IN	THKNS, IN	RATING, H
2-1/2	1/2-12	1-3/8	1/2	2
2-1/2	1/2-12	2-7/8	1	2
4-1/2	1/2-6	1-3/8	1/4(a)	2
4-1/2	1/2-12	1-1/4	1/2	3
4-1/2	1/2-20	['] 2	1	3
4-1/2	22-30	2	2	3
5-1/2	1/2-6	1-3/8	1(b)	4
., –	,	-, -	` /	

(a) MIN 2 IN THICKNESS OF MINERAL-WOOL BATT INSULATION REQUIRED IN ANNULAR SPACE. (b) MIN 1 IN. THICKNESS OF MINERAL-WOOL BATT INSULATION REQUIRED IN ANNULAR SPACE ON BOTH SIDES OF FLOOR OR WALL ASSEMBLY. MIN 1IN. THICKNESS OF CAULK TO BE INSTALLED FLUSH WITH EACH SURFACE FLOOR OR WALL ASSEMBLY.

MINNESOTA MINING & MANUKACTURING CO - TYPES CP-25 WB, CP-25 WB+. (NOTE: L RATING AND OR USE OF OPTIONAL SLEEVE APPLY ONLY WHEN TYPE CP-25WB+ CAULK IS USED).

> SYSTEM NO. WL1001 (Formerly System No. 147) F RATING - 1 & 2 HOUR T RATING - 0, 1, 1-1/2 & 2 HOUR



1. SEAL ALL PENETRATIONS IN ACCORDANCE WITH APPLICABLE CODES TO PRESERVE ORIGINAL FIRE HOUR RESISTANCE OF WALLS, FLOORS OR CEILINGS. USE UL DIRECTOY ASSEMBLY NOS. 49 & 328, AS APPLICABLE FOR ALL FIRE WALL PENETRATIONS.

2. AT FIRE SEPARATION WALLS, WRAP CONDUIT WITH 3M CONDUIT WRAP F3-195 TO WITHIN 1/4" OF OPENING; FILL THE GAP AND COVER EDGE OF WRAP WITH 3M-CP25 CAULK AND/OR #303 PUTTY.

MISCELLANEOUS DETAILS

1616A.1.26.

SEISMIC NOTES

ALL MECHANICAL, PLUMBING AND ELECTRICAL COMPONENTS SHALL BE ANCHORED AND INSTALLED PER THE DETAILS ON THE DSA APPROVED CONSTRUCTION DOCUMENTS. WHERE NO DETAIL IS INDICATED, THE FOLLOWING COMPONENTS SHALL BE ANCHORED OR BRACED TO MEET THE FORCE AND DISPLACEMENT BRACED TO MEET THE FORCE AND DISPLACEMENT REQUIREMENT PRESCRIBED IN THE 2013 CBC, SECTION 1616A.1.18 THROUGH 1616A.1.26 AND ASCE 7-10 CHAPTER 26-31

AND 13. 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 3. MOVABLE EQUIPMENT WHICH IS STATIONED IN ONE PLACE FOR MORE THAN 8 HOURS AND HEAVIER THAN 400 POUNDS ARE REQUIRED TO BE ANCHORED WITH TEMPORARY ATTACHMENTS.

THE ATTACHMENT OF THE FOLLOWING MECHANICAL AND ELECTRICAL COMPONENTS SHALL BE POSITIVELY ATTACHED TO THE STRUCTURE, BUT NEED NOT BE DETAILED ON THE PLANS. THE PROJECT INSPECTOR WILL VERIFY THAT THESE ITEMS HAVE BEEN POSITIVELY ATTACHED. 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 DISTRIBUTION SYSTEMS, LESS THAN 5 POUNDS PER FOOT, WHICH ARE SUSPENDED FROM A ROOF OR FLOOR OR HUNG FROM A WALL.

WOOD BACKING GYPSUM BOARD WALL

FOR FACP MOUNTING

ELEVATION

(STROBE)

TYPICAL MOUNTING OF EQUIPMENT WEIGHING OVER 20 LBS. (120 LBS MAXIMUM)

FACP MOUNTING DETAIL

ABOVE FINISHED FLOOR

TYPICAL MOUNTING ELEVATION DETAIL

OF STROBE & SPEAKER/STROBE

(STROBE)

SPEAKER/STROBE

ABOVE FINISHED FLOOR OR 6 INCHES BELOW CEILING WHICHEVER IS LOWER

FOR THOSE ELEMENTS THAT DO NOT REQUIRE DETAILS ON THE APPROVED DRAWINGS. THE INSTALLATION SHALL BE SUBJECT TO THE APPROVAL OF THE MECHANICAL/ELECTRICAL ENGINEER AND THE DSA DISTRICT STRUCTURAL ENGINEER.

ARCHITECTURAL STUD

WOOD STUD -

12 WOOD

CORNER, MIN

1-1/2"

SCREWS AT EACH

PENÉTRATION INTO

CEILING LINE-

FINISHED FLOOR

WOOD BACKING

(TYPICAL)

DUCTWORK AND PIPING DISTRIBUTION BRACING NOTES

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

THE BRACING AND ATTACHMENTS TO THE STRUCTURE SHALL COMPLY WITH ONE OF THE OSHPD PRE-APPROVALS WITH AN OPM #, SUCH AS MASON INDUSTRIES (OPM 349), OR ISAT (OPM 485) AS MODIFIED TO SATISFY ANCHORAGE REQUIREMENTS OF ACI 318,

COPIES OF THE MANUAL SHALL BE AVAILABLE ON THE JOBSITE PRIOR TO THE START OF HANGING AND BRACING OF THE PIPE, DUCTWORK, AND ELECTRICAL DISTRIBUTION

THE STRUCTURAL ENGINEER OF RECORD SHALL VERIFY THE ADEQUACY OF THE STRUCTURE TO SUPPORT THE HANGER AND BRACE LOADS.

A35 FRAMING ——

AT 4 CORNERS

4x6 WOOD —

BACKING (TYP)

WOOD STUD -

NO. 12 WOOD-

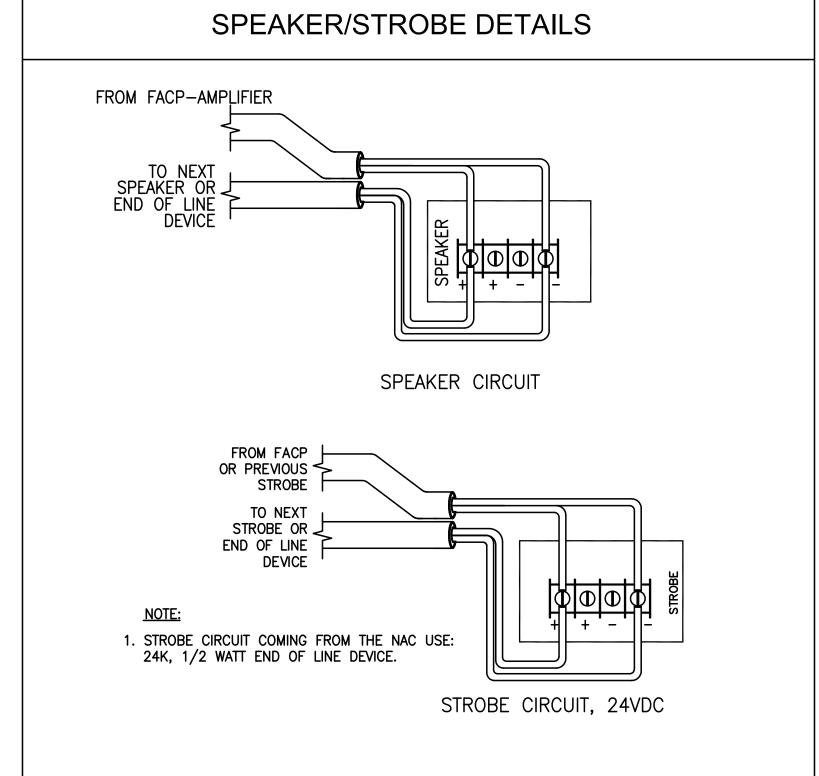
72" MAX.

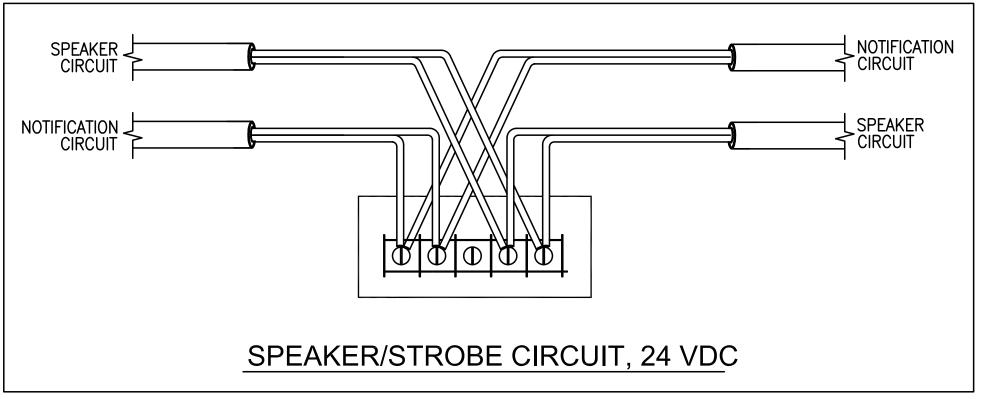
SCREW

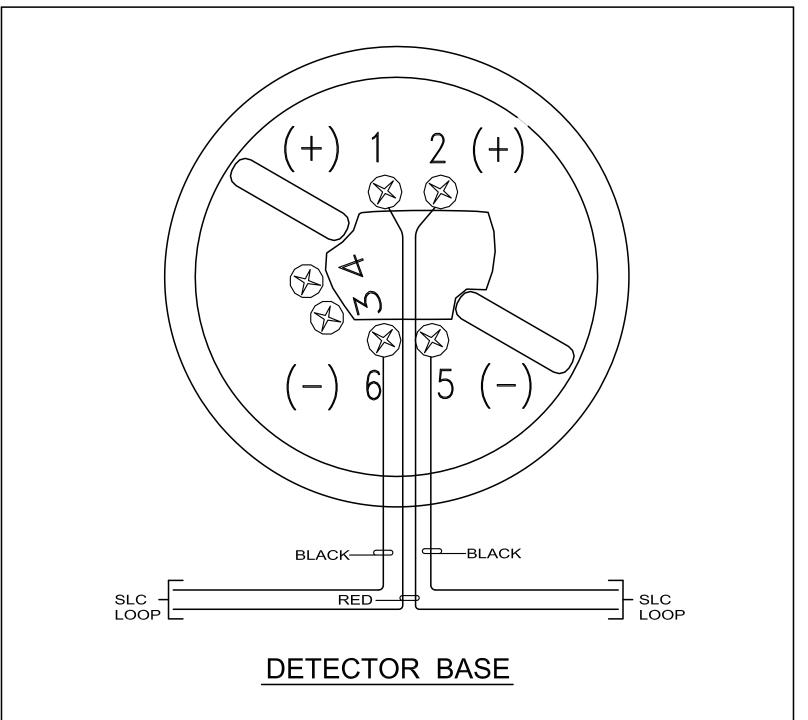
FINISHED FLOOR-

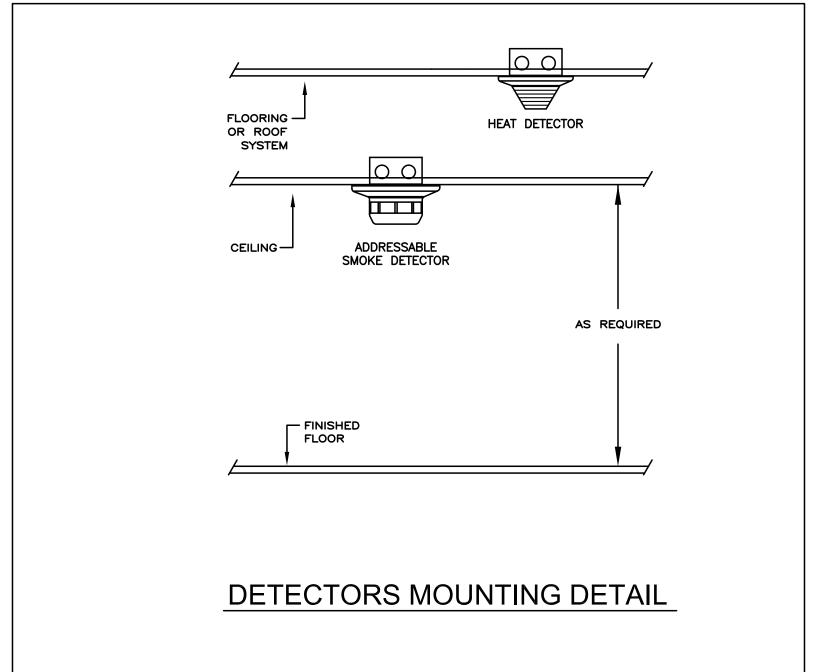
SECTION A-A

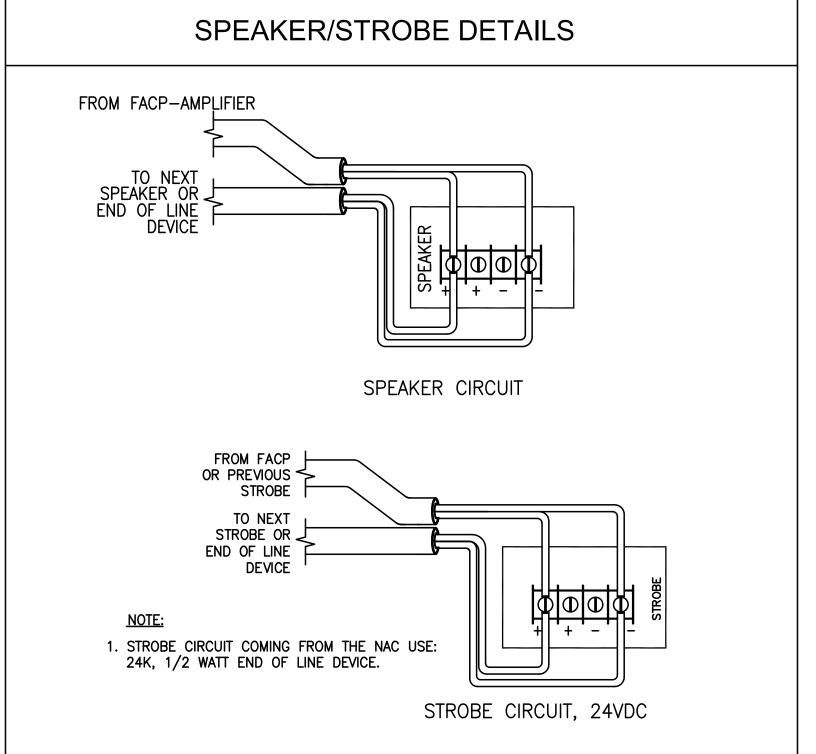
ANCHOR

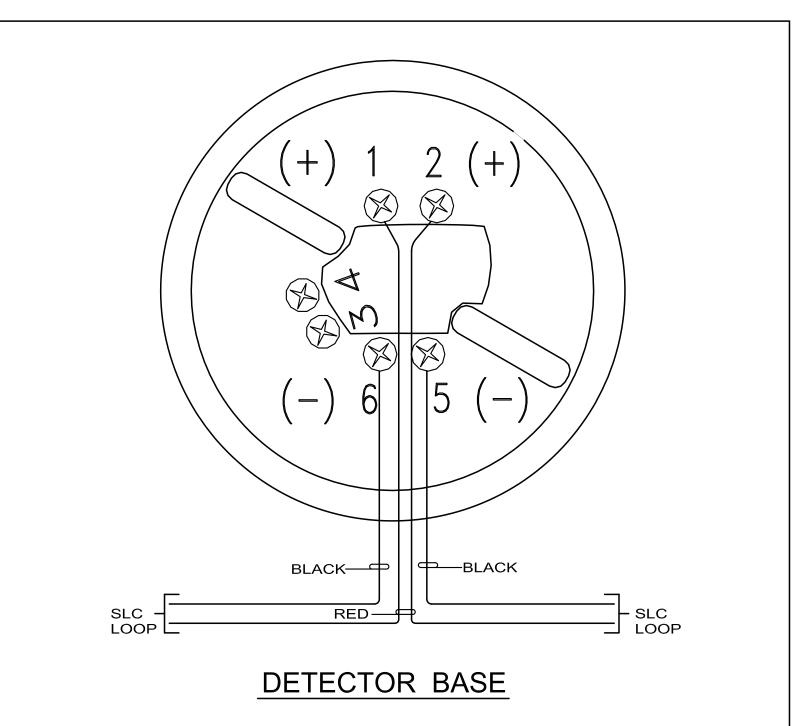


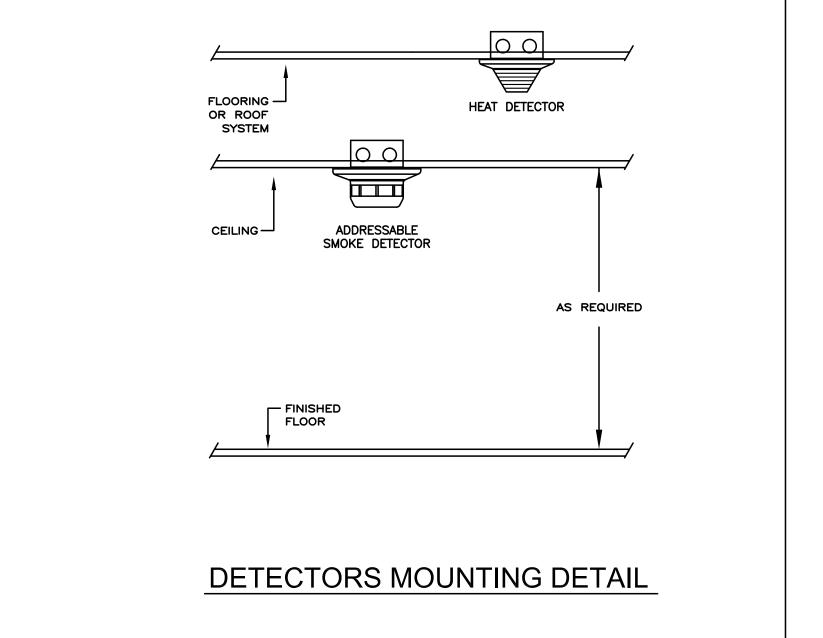








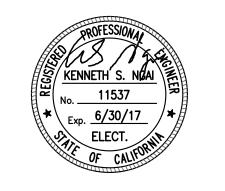


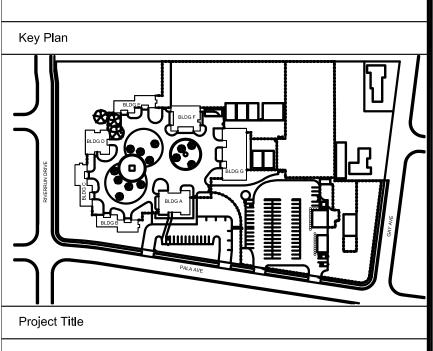




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FOOTHILL HIGH SCHOOL HOOPER HALL AND **QUAD MODERNIZATION**

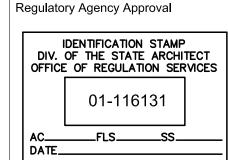
230 PALA AVENUE SAN JOSE, CA 95127

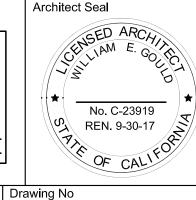
EAST SIDE UNION HIGH SCHOOL DISTRICT

No	Revisions/Submissions	Date
-	100% Schematic Design	06.22.16
-	100% Design Development	07.14.16
	100% Construction Documents	08.05.16
	DSA Approval	12.15.16

FIRE ALARM DETAILS

Drawing Title





DSA File Number 43-H10 DSA Application Number 01-116131

12.15.16

135145

	AIR CONDITIONERS																	
MARK COOL MBH HEAT MBH CFM TC SC IN OUT TOTAL ESP					OA	FAN RPM	M(HP	TOR V/PH	FLA	UNIT MCA	MOCP	WT LBS	EER SEER	AFUE	MAKE & MODEL	REMARKS		
AC-1	181.3	138.9	310	251	6000	0.5"	1240	768	5	208/3	84	80	100	2450	12.5	80%	CARRIER 48LCE017	1 2 3 4

- 1) FOR MOUNTING, SEE 5/M6.1.
- 3 COOLING CAPACITIES ARE AT 95° FAHRENHEIT AMBIENT, 80° FAHRENHEIT DRY BULB/67° FAHRENHEIT WET BULB ENTERING AIR TEMPERATURE.
- 2 WITH STAINLESS STEEL HEAT EXCHANGER, MEDIUM STATIC BELT DRIVE,
 TEMPERATURE DRY BULB ULTRA LOW LEAK ECONOMIZER WITH BAROMETRIC RELIEF,
 HINGED ACCESS PANELS, AND FACTORY ROOF CURB.

 4 EQUIPMENT SHALL MEET TITLE 24 REQUIREMENTS FOR FAN AND COMPRESSOR

				E	XH	AUS	ST	FA	NS	
MARK	LOCATION	CFM	ESP	SONES	MO WATTS	TOR V/PH	FAN RPM	WT LBS	MAKE & MODEL	REMARKS
<u>EF-1</u>	SEE PLANS	250	0.125"	1.0	65	115/1	1000	23	GREENHECK CSP-A250	1 2

- 1) WITH GREENHECK WC-8 WALL CAP AND HANGING VIBRATION ISOLATORS
- (2) FOR MOUNTING, SEE 1/M6.1

	AIR DISTRIBUTION										
MARK	TYPE	MAKE & MODEL	REMARKS								
<u>EG-1</u>	EXHAUST GRILLE	TITUS 8R	1 2								

1) FINISH PER ARCHITECT

(2) FOR MOUNTING, SEE 3/M6.1.

EQUI	PMENT	INTER	INTERLOCK/CONTROL						
BUILDING	EQUIPMENT	CONTROL	INTERLOCK	REMARKS					
BUILDING F	<u>AC-1</u>	1	2						
DUILDING F	<u>EF-1</u>	3	-						

- 1) CONTROL WITH HONEYWELL T3750D 7-DAY PROGRAMMABLE THERMOSTAT.

 (3) CONTROL WITH WALL SWITCH.
- 2 INTERLOCK (E) EXHAUST FAN WITH AC-1.
 TYPICAL OF 2.

DSA GENERAL NOTES

- 1. THE INTENT OF THE CONTRACT DOCUMENTS IS TO MODERNIZE THE SCHOOL'S CAMPUS. SHOULD ANY CONDITIONS DEVELOP NOT COVERED BY THE CONTRACT DOCUMENTS, A CONSTRUCTION CHANGE DOCUMENT DETAILING AND SPECIFYING THE REQUIRED WORK SHALL BE SUBMITTED TO AND APPROVED BY DSA BEFORE PROCEEDING WITH THE WORK.
- 2. LATERAL SUPPORT FOR PIPE AND DUCTS TO COMPLY WITH SMACNA "GUIDELINES FOR SEISMIC RESTRAINTS OF MECHANICAL SYSTEMS AND PLUMBING SYSTEMS".
- 3. THE SEISMIC SUPPORT AND ANCHORAGE OF THE EQUIPMENT DESCRIBED ON THESE DRAWINGS HAVE BEEN ENGINEERED BY THE ENGINEER OF RECORD FOR CONFORMANCE WITH APPROPRIATE BUILDING CODES. THE ENGINEER OF RECORD WAS NOT RESPONSIBLE FOR THE EQUIPMENT DESIGN.
- 4. ALL MECHANICAL AND PLUMBING EQUIPMENT SHALL BE BRACED OR ANCHORED TO RESIST A HORIZONTAL FORCE ACTING IN ANY DIRECTION USING THE CRITERIA FROM CHAPTER 16A CALIFORNIA BUILDING CODE (CBC) 2013.
- 5. WHERE ANCHORAGE DETAILS ARE NOT SHOWN ON THE DRAWINGS, THE FIELD INSTALLATION SHALL BE SUBJECT TO THE APPROVAL OF THE STRUCTURAL ENGINEER AND THE FIELD REPRESENTATIVE OF THE DIVISION OF THE STATE ARCHITECT.

COMPONENT ANCHORAGE NOTES

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

- 1. ALL PERMANENT EQUIPMENT AND COMPONENTS.
 2. TEMPORARY OR MOVABLE EQUIPMENT THAT IS PERMANENTLY ATTACHED (EG HARD WIRED)
- TO THE BUILDING UTILITY SERVICES SUCH AS ELECTRICAL, GAS, OR WATER.

 3. MOVABLE EQUIPMENT WHICH IS STATIONED IN ONE PLACE FOR MORE THAN 8 HOURS AND HEAVIER THAN 400 POUNDS ARE REQUIRED TO BE ANCHORED WITH TEMPORARY ATTACHMENTS.

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

- COMPONENTS WEIGHING LESS THAN 400 POUNDS AND HAVING A CENTER OF MASS LOCATED 4'-0" OR LESS ABOVE THE ADJACENT FLOOR OR ROOF LEVEL THAT DIRECTLY SUPPORTS THE EQUIPMENT.
- 2. 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 STRUCTURAL ENGINEER OF RECORD AND THE DSA DISTRICT STRUCTURAL ENGINEER. THE PROJECT INSPECTOR WILL VERIFY THAT ALL COMPONENTS AND EQUIPMENT HAVE BEEN ANCHORED IN ACCORDANCE WITH ABOVE REQUIREMENTS.

PIPING AND DUCTWORK DISTRIBUTION SYSTEM BRACING NOTES

PIPING AND DUCTWORK 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., 13.6.8, 13.6.7, AND 2013 CBC, SECTIONS 1616A.1.23, 1616A1.24, 1616A.1.25, AND 1616A.1.26.

THE BRACING AND ATTACHMENTS TO THE STRUCTURE SHALL BE DETAILED ON THE APPROVED DRAWINGS OR THEY SHALL COMPLY WITH ONE OF THE OSHPD PRE—APPROVALS (OPA #) AS MODIFIED TO SATISFY ANCHORAGE REQUIREMENTS OF ACI 318, APPENDIX D.

COPIES OF THE MANUAL SHALL BE AVAILABLE ON THE JOBSITE PRIOR TO THE START OF HANGING AND BRACING OF THE PIPING AND DUCTWORK DISTRIBUTION SYSTEMS.

THE STRUCTURAL ENGINEER OF RECORD SHALL VERIFY THE ADEQUACY OF THE STRUCTURE TO SUPPORT THE HANGER AND BRACE LOADS.

LIST OF GOVERNING CODES:

- 2013 BUILDING STANDARDS ADMINISTRATIVE CODE, PART 1, TITLE 24, C.C.R.
- 2013 CALIFORNIA BUILDING CODE (CBC), PART 2, TITLE 24, C.C.R. 2013 CALIFORNIA ELECTRICAL CODE, PART 3, TITLE 24, C.C.R.
- 2013 CALIFORNIA MECHANICAL CODE (CMC), PART 4, TITLE 24, C.C.R. 2013 CALIFORNIA PLUMBING CODE (CPC), PART 5, TITLE 24, C.C.R.
- 2013 CALIFORNIA ENERGY CODE (CEC), PART 6, TITLE 24, C.C.R. 2013 CALIFORNIA FIRE CODE (CFC), PART 9, TITLE 24, C.C.R.
- 2013 CALIFORNIA GREEN BUILDING STANDARDS CODE, PART 11, TITLE 24, C.C.R.
 2013 CALIFORNIA REFERENCED STANDARDS CODE, PART 12, TITLE 24, C.C.R.
 TITLE 19, C.C.R., PUBLIC SAFETY, STATE FIRE MARSHAL REGULATIONS.
- ALL SECTION NUMBERS BELOW REFER TO GROUP 1, CHAPTER 4, PART 1, TITLE 24, C.C.R. 1. ADDENDA, CONSTRUCTION CHANGES PER SECTION 4-338.
- ADDENDA, CONSTRUCTION CHANGES FER SECTION 4-338.
 INSPECTOR APPROVED BY DSA. INSPECTOR AND CONTINUOUS INSPECTION OF WORK PER SECTION 4-333(b) AND 4-342.
- TESTS AND TESTING LABORATORY PER SECT. 4-335.
 SPECIAL INSPECTION PER SECT. 4-333(d).
- SPECIAL INSPECTION PER SECT. 4-333(d).
 CONTRACTOR SHALL SUBMIT VERIFIED REPORTS PER SECT. 4-336 AND 4-343(c).
 ADMINISTRATION OF CONSTRUCTION PER PART 1, TITLE 24, C.C.R. DUTIES OF ARCHITECT, STRUCTURAL ENGINEER OR PROFESSIONAL ENGINEER PER SECT. 4-333(a)
- AND 4-341.
 7. GOVERNING CODES: TITLE 24.
 8. A COPY OF PARTS 1, 2, 3, 4, AND 5 OF TITLE 24 SHALL BE KEPT AVAILABLE IN THE
- FIELD DURING CONSTRUCTION.

 9. DSA SHALL BE NOTIFIED OF START OF CONSTRUCTION PER SECT. 4-331.
- 10. SUPERVISION BY THE OFFICE OF REGULATION SERVICE PER SECT. 4–334.

SYMBOL	ABBRV.	IDENTIFICATION	ABBRV.	IDENTIFICATION
		AIR DUCT	HP	HORSEPOWER
	BD	BALANCING DAMPER	LBS	POUNDS
		AIR FROM DEVICE	MAX	MAXIMUM
√		AIR TO DEVICE	МВН	1000 BTU PER HOUR
		SECTION THROUGH SUPPLY	MECH	MECHANICAL
		SECTION THROUGH RETURN	MFR	MANUFACTURER
		SECTION THROUGH EXHAUST	MIN	MINIMUM
\bigcirc		THERMOSTAT	(N)	NEW
■ F/D	F/D	VERTICAL FIRE DAMPER	OA	OUTSIDE AIR
□ BT		BYPASS TIMER	OBD	OPPOSED BLADE DAMPER
•	P.O.C.	POINT OF CONNECTION	OC	ON CENTER
	*F	DEGREES FAHRENHEIT	OD	OUTSIDE DIAMETER
	AFUE	ANNUAL FUEL UTILIZATION EFFICIENCY	OV	OUTLET VELOCITY
	ARCH	ARCHITECT/ARCHITECTURAL	PC	PLUMBING CONTRACTOR
	BLDG	BUILDING	PD	PRESSURE DROP
	BTUH	BRITISH THERMAL UNITS PER HOUR	PH	PHASE
	CFM	CUBIC FEET PER MINUTE	RA	RETURN AIR
	CLG	CEILING	RM	ROOM
	CONN	CONNECTION	RPM	REVOLUTIONS PER MINUTE
	CONT	CONTINUED, CONTINUATION	SA	SUPPLY AIR
	COORD	COORDINATE	SC	SENSIBLE COOLING
	DN	DOWN	TV	TURNING VANES
	DWGS	DRAWINGS	TYP	TYPICAL
	(E)	EXISTING	V	VOLT
	EER	ENERGY EFFICIENCY RATIO	W/	WITH
	ESP	EXTERNAL STATIC PRESSURE	WT	WEIGHT
		CEILING DIFFUSER — ONE, TWO, THREE AND FOUR WAY THROW ——		12×12 CD REGISTER NECK SIZE AND MARK DESIGN CFM PANEL AT T-BAR CEIL

GENERAL NOTES:

- 1. THIS PROJECT IS A REMODEL. THE PLANS AND SPECIFICATIONS INDICATE THE GENERAL EXTENT OF THE WORK BASED ON OWNER PROVIDED RECORD DRAWINGS AND LIMITED FIELD VERIFICATION. CONTRACTOR SHALL VISIT SITE, VERIFY EXISTING CONDITIONS, AND REPORT ANY DISCREPANCIES NOTED TO THE ARCHITECT PRIOR TO SUBMITTING A BID. CONTRACTOR SHALL BE RESPONSIBLE FOR THE DISCONNECTION AND RECONNECTION OF MECHANICAL, PLUMBING, AND ELECTRICAL SYSTEMS NECESSARY TO ACCOMPLISH THE WORK WHETHER OR NOT SPECIFIED AND/OR INDICATED.
- ASBESTOS ABATEMENT BY OTHERS ON THIS PROJECT. ANY REQUIRED ASBESTOS ABATEMENT WORK WILL BE PROVIDED BY OTHERS. AREAS SUSPECTED OF ASBESTOS CONTAMINATION WHICH INTERFERE WITH WORK UNDER THIS PROJECT SHALL BE IDENTIFIED DURING THE EARLY PHASES OF CONSTRUCTION IN ORDER TO PROVIDE FOR TIMELY DISPOSITION. NO DELAYS IN CONSTRUCTION SCHEDULE WILL BE ALLOWED DUE TO IMPROPER COORDINATION.
- 3. MECHANICAL CONTRACTOR SHALL NOTIFY GENERAL CONTRACTOR TO REPAIR WALL, FLOOR, AND CEILING SURFACES AS REQUIRED DUE TO DEMOLITION OR INSTALLATION WORK.
- 4. REMOVE ALL ABANDONED PIPING, DUCT WORK, WIRING, EQUIPMENT, AND FIXTURES INTERFERING WITH NEW WORK WHETHER NEW WORK IS ARCHITECTURAL, STRUCTURAL, MECHANICAL, OR ELECTRICAL.
- 5. ABANDON IN PLACE BEHIND NEW FINISHES ALL PIPING, WIRING, AND DUCT WORK NOT INTERFERING WITH NEW WORK UNLESS REQUIRED FOR CONTINUED SERVICE.
- 6. CUTTING OR CORING OF STRUCTURAL MEMBERS OR FOOTINGS IS PROHIBITED WITHOUT THE PRIOR WRITTEN APPROVAL OF THE STRUCTURAL ENGINEER AND THE ARCHITECT.
- 7. CONTRACTOR SHALL VERIFY THAT THE ELECTRICAL CONNECTIONS TO THE UNITS, INCLUDING CIRCUIT PROTECTION, CONFORM TO UNIT LABELS AND MANUFACTURER'S DIRECTIONS. WHERE WIRE SIZES SHOWN ON DRAWING EXCEED MANUFACTURER'S RECOMMENDATIONS, THE DRAWINGS SHALL GOVERN. ALL WIRING SHALL BE PER THE NATIONAL ELECTRICAL CODE. AS AMENDED AND ENFORCED BY JURISDICTIONAL AUTHORITY.
- 8. COMPLETELY CLEAN ALL DUCTWORK BEING REUSED, INCLUDING SUPPLY, RETURN AND EXHAUST.
 MECHANICALLY CLEAN AND VACUUM INTERIOR OF DUCTS. ALL METHODS AND MATERIALS PER LATEST
 INDUSTRY STANDARDS.
- 9. PROVIDE SHOP DRAWINGS OF ALL MECHANICAL LAYOUTS SHOWING EQUIPMENT, DUCTWORK, REGISTERS, PIPING, FILTER RACKS, CONTROL DAMPERS, LIGHTS, ACCESS PANELS AND ACCESS SPACES, ETC.. OBTAIN AND COORDINATE WITH APPROVED FIRE SPRINKLER PLUMBING, ELECTRICAL, CASE WORK AND OTHER TRADES SHOP DRAWINGS PRIOR TO MECHANICAL DRAWING SUBMITTAL.
- 10. COORDINATE EXACT GRILLE, DIFFUSER AND ACCESS DOOR LAYOUT WITH LIGHTS AND SPRINKLERS.
- 11. PROVIDE STEEL DUCTS ABOVE RATED CEILINGS AND MINIMUM 18" BEYOND RATED WALLS.
- 12. SUPPORT DUCTS TIGHT BELOW STRUCTURE WHEREVER POSSIBLE.
- 13. PROVIDE ACOUSTICAL LINING IN ALL DUCTS WITHIN 15 FEET OF UNITS. PROVIDE FLEXIBLE CONNECTION ON INLET AND OUTLET DUCT CONNECTIONS TO EQUIPMENT.
- 14. FLASHING AND WEATHERPROOFING AT EXTERIOR PENETRATIONS ARE SHOWN ON THE ARCHITECTURAL DRAWINGS.
- 15. COORDINATE WITH OWNER ON SPACE REQUIRED AND TIME SCHEDULE FOR DELIVERY OF ALL ITEMS WHICH ARE TO BE GIVEN TO THE OWNER FOR HIS DISPOSITION.
- 16. FOR ROOF PENETRATIONS WITHOUT CURBS, PROVIDE WEATHERPROOF FLASHING PER SMACNA ARCHITECTURAL SHEET METAL MANUAL AND DRAWING NOTES.
- 17. ALL TRANSITIONS IN DUCTWORK SHALL BE MADE AT 15 DEGREES MAXIMUM EACH FACE UNLESS OTHERWISE NOTED OR SPECIFICALLY APPROVED.
- 18. ALL DUCTWORK IS CONCEALED UNLESS OTHERWISE NOTED.
- 19. LABEL ALL PIECES OF EQUIPMENT WITH MARK MATCHING SCHEDULE OR EQUIPMENT LIST WITH ENGRAVED PLASTIC LABELS WITH MINIMUM 1/4" HIGH LETTERS. LABELS EXPOSED TO WEATHER SHALL BE ENGRAVED BRASS.
- 20. PRIME AND PAINT ALL EXPOSED DUCTWORK PER ARCHITECTURAL SPECIFICATIONS. PAINT SHALL NOT EXCEED THE FOLLOWING VOLATILE ORGANIC COMPOUND CONTENT LIMITS: FLATS < 50 GRAMS PER LITER, NON-FLATS < 100 GRAMS PER LITER.
- 21. ALL DUCTS, REGISTERS, EQUIPMENT, ETC. SHOWN IS NEW UNLESS OTHERWISE NOTED.
- 22. THE HEATING, VENTILATION AND AIR CONDITIONING SYSTEM(S) FOR THE BUILDING(S) WERE DESIGNED IN COMPLIANCE WITH THE LATEST EDITIONS OF THE CALIFORNIA CODES, STANDARDS AND REGULATIONS INCLUDING BUT NOT LIMITED TO CALIFORNIA MECHANICAL CODE (CMC), CALIFORNIA ENERGY CODE (CEC TITLE 24, PART 6), AMERICAN SOCIETY OF HEATING, REFRIGERATION AND AIR CONDITIONING ENGINEERS (ASHRAE) AND SHEET METAL AND AIR CONDITIONING CONTRACTORS NATIONAL ASSOCIATION (SMACNA).

THE INDOOR AND OUTDOOR DESIGN CONDITIONS ARE THOSE ESTABLISHED FOR SAN JOSE BY THE CALIFORNIA ENERGY CODE AS FOLLOWS:

- 1. OUTDOOR CONDITIONS
 SUMMER: 85°F DB/68°F WB
 WINTER: 29°F DB
 2. INDOOR CONDITIONS
 SUMMER: 74°F DB ±2°F
- IF THE OUTDOOR TEMPERATURES ARE HIGHER OR LOWER THAN DESIGN TEMPERATURES ESTABLISHED BY THE CALIFORNIA ENERGY CODE, THERE IS THE POTENTIAL THAT THE INSTALLED HVAC SYSTEM WILL NOT BE ABLE TO MAINTAIN THE DESIRED INDOOR TEMPERATURE. THE INCREASE OR DECREASE OF INDOOR TEMPERATURE COULD BE AS HIGH AS THE DIFFERENCE BETWEEN THE ACTUAL OUTDOOR TEMPERATURE AND THE DESIGN CONDITION.
- 23. ADHESIVES, SEALANTS AND CAULKS USED INDOORS SHALL NOT EXCEED THE FOLLOWING VOLATILE ORGANIC COMPOUND LIMITS PER TITLE 24, PART 11. SECTION 5.504.
 - METAL TO METAL < 30 GRAMS PER LITER
 FIBERGLASS < 80 GRAMS PER LITER

WINTER: 68°F DB ±2°F

- MASTICS < 100 GRAMS PER LITER
 ZINC-RICH PRIMERS < 340 GRAMS PER LITER
 FIRE RESISTANT COATINGS < 350 GRAMS PER LITER
- 24. HVAC EQUIPMENT SHALL NOT CONTAIN CFC'S OR HALONS PER TITLE 24, PART 11, SECTION 5.508.
- 25. AT THE TIME OF ROUGH INSTALLATION, OR DURING STORAGE ON THE CONSTRUCTION SITE AND UNTIL FINAL STARTUP OF THE HEATING AND COOLING EQUIPMENT, ALL DUCT AND OTHER RELATED AIR DISTRIBUTION COMPONENTS OPENINGS SHALL BE COVERED WITH TAPE, PLASTIC OR SHEET METAL TO PROTECT THE AIR DISTRIBUTION SYSTEM FROM CONTAMINATION WITH DUST AND DEBRIS.



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AE Project # : 20160110

Key Plan

BLDG F

BLDG A

BLDG A

PALA AVE

FOOTHILL HIGH SCHOOL HOOPER HALL AND QUAD MODERNIZATION

Project Title

230 PALA AVENUE SAN JOSE, CA 95127

EAST SIDE UNION HIGH SCHOOL DISTRICT

No	Revisions/Submissions	Date
-	100% Schematic Design	06.22.16
-	100% Design Development	07.14.16
-	100% Construction Documents	08.05.16
_	DSA Approval	12.15.16

LEGEND, SCHEDULES AND NOTES MECHANICAL

Regulatory Agency Approval

IDENTIFICATION STAMP
DIV. OF THE STATE ARCHITECT
OFFICE OF REGULATION SERVICES

01-116131

AC____FLS___SS__
DATE

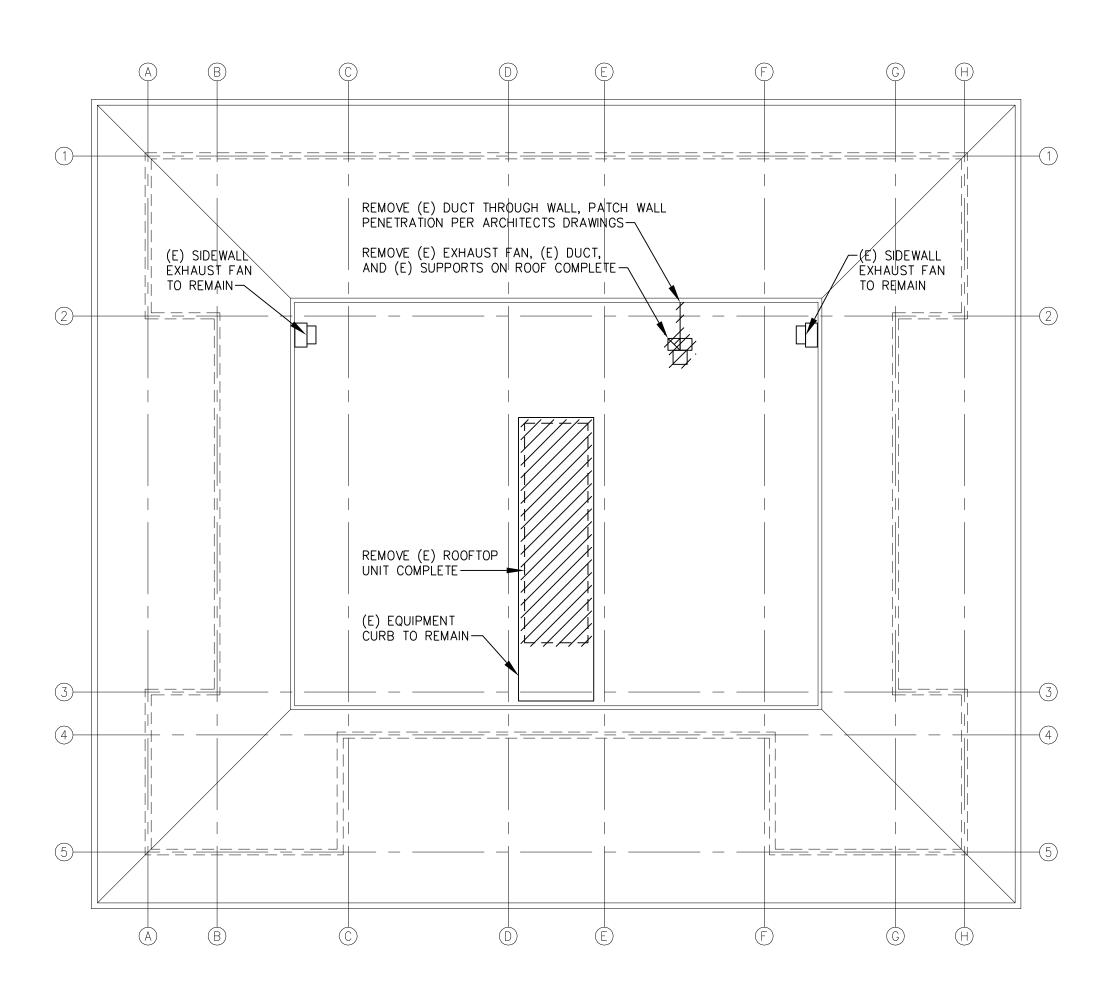
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13 H10

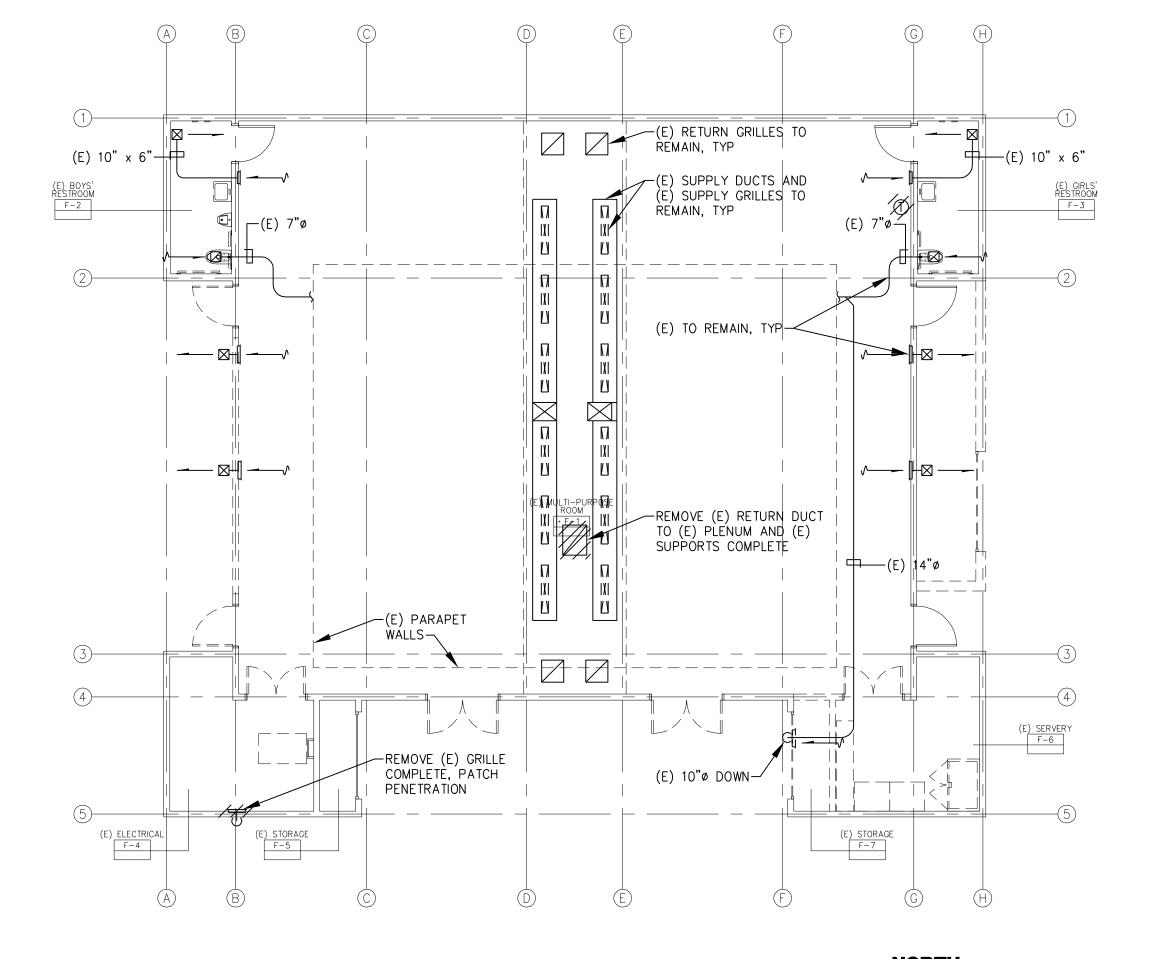
DSA Application Number 01-116131

12.15.16

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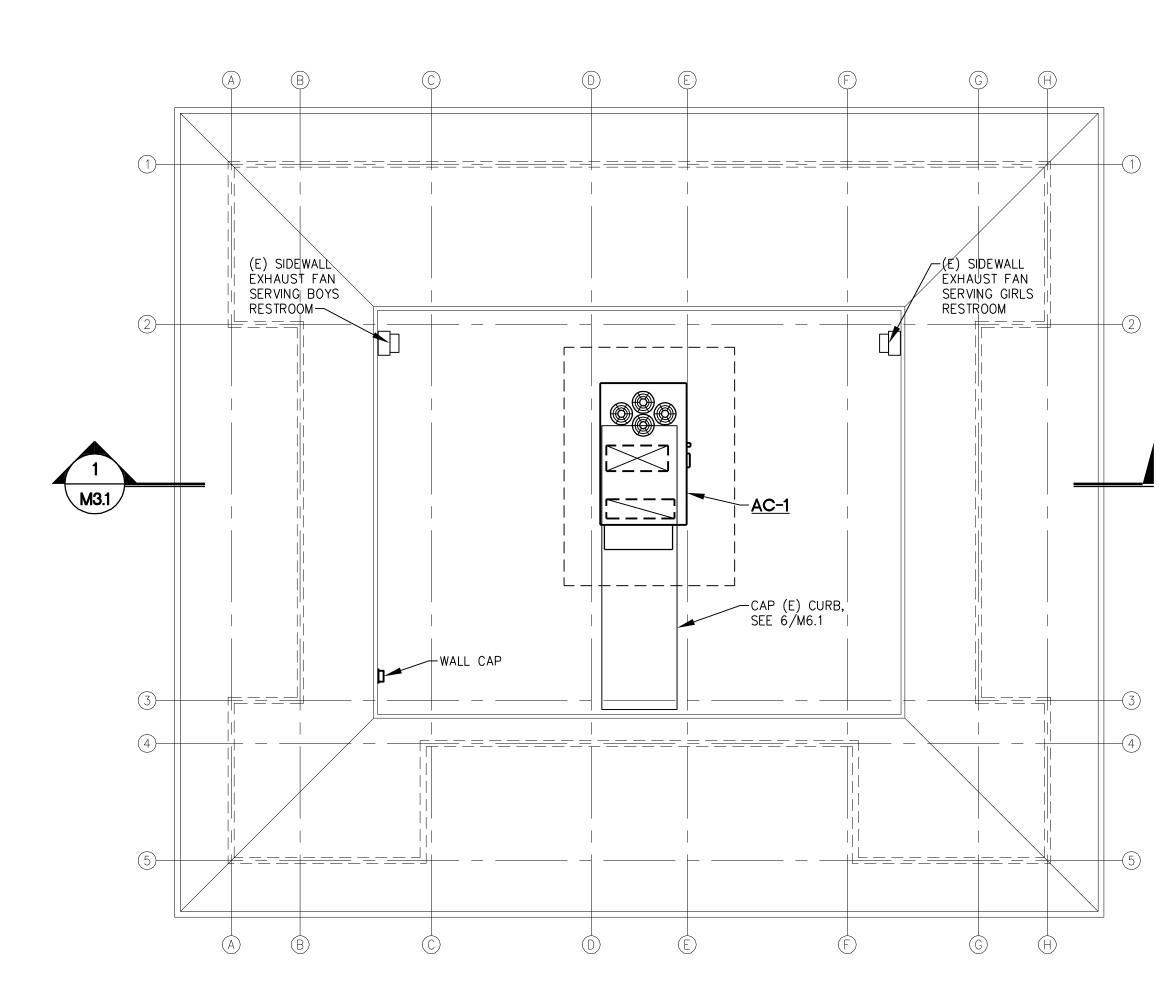


ROOF PLAN - MECHANICAL - DEMOLITION
SCALE: 1/8" = 1'-0"

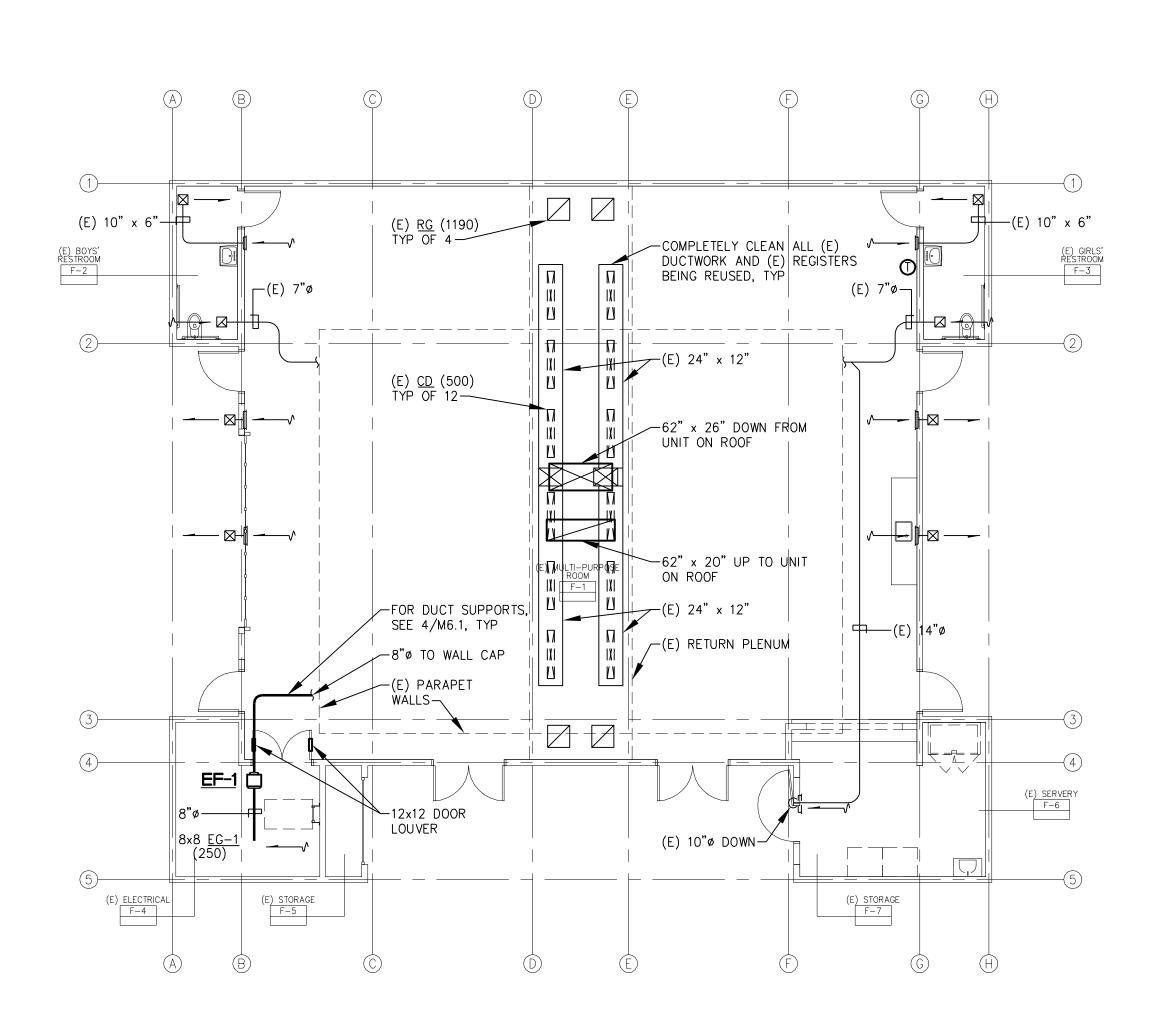


FLOOR PLAN - MECHANICAL - DEMOLITION

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











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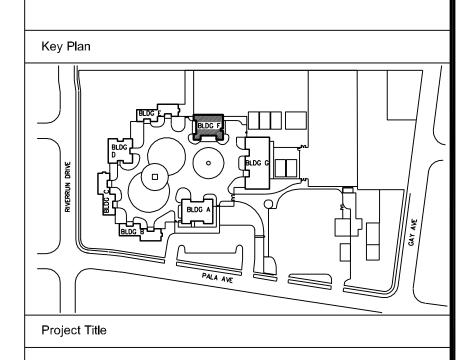
AXIOM ENGINEERS

LEE & ASSOCIATES

CONSULTING ENGINEERS

AE Project # : 20160110

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FOOTHILL HIGH SCHOOL HOOPER HALL AND QUAD MODERNIZATION

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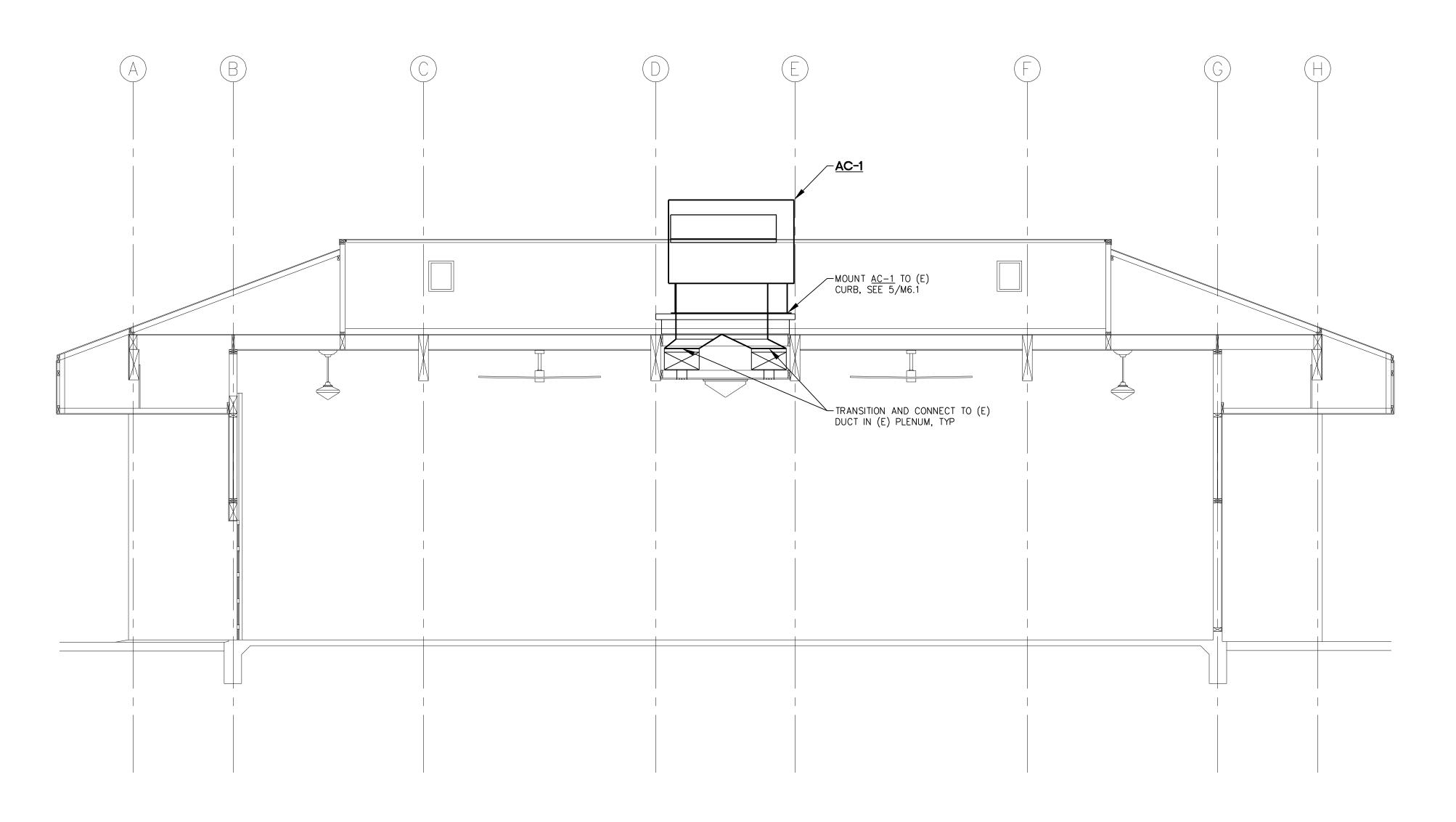
FLOOR AND ROOF PLANS - MECHANICAL

Architect Seal Regulatory Agency Approval IDENTIFICATION STAMP
DIV. OF THE STATE ARCHITECT
OFFICE OF REGULATION SERVICES Drawing No

DSA File Number 43-H10 DSA Application Number

12.15.16

01-116131 M2.1135145



SECTION AT AC-1 - MECHANICAL

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



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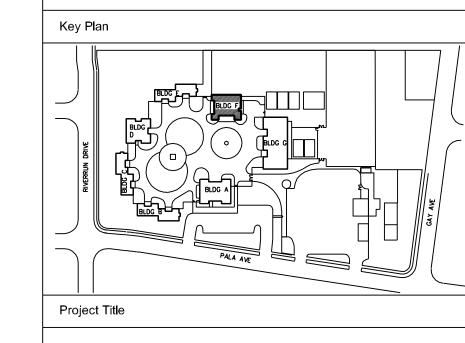
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AE Project # : 20160110

#: 20160110 22 Lower Ragsdale Dr., Suite A Monterey, California 93940-5788



FOOTHILL HIGH SCHOOL HOOPER HALL AND QUAD MODERNIZATION

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SECTION AT AC-1 MECHANICAL

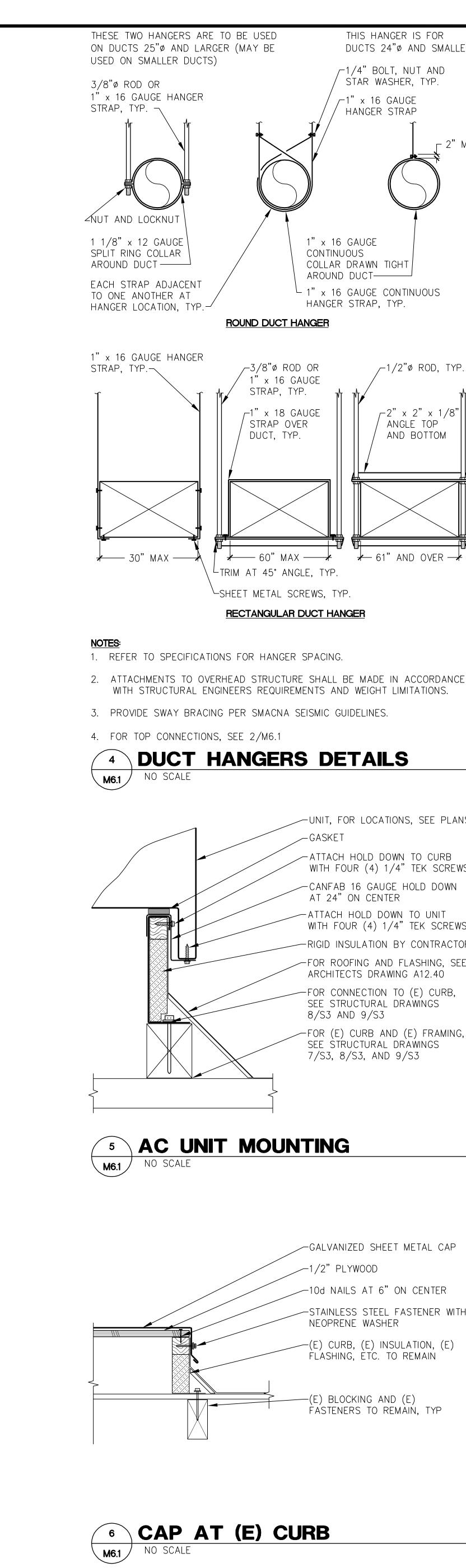
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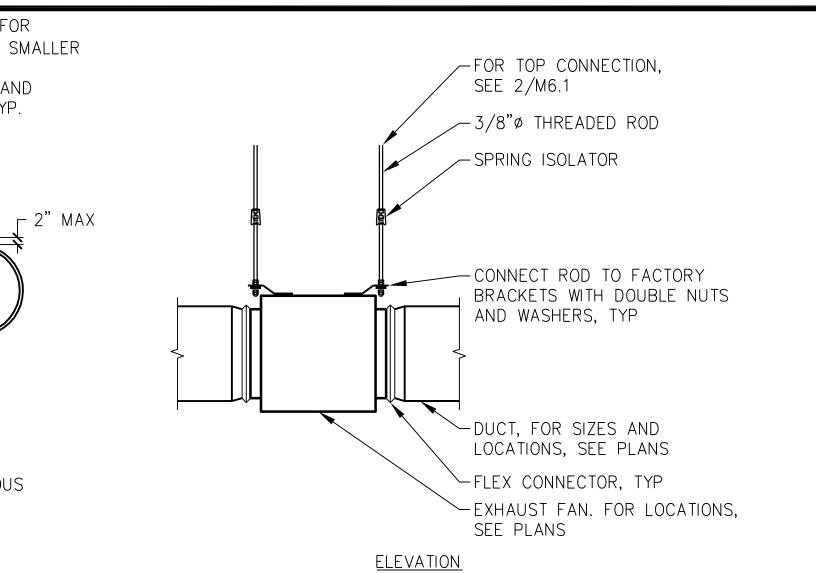
DSA File Number 43-H10

43-H10

DSA Application Number
01-116131

M3





THIS HANGER IS FOR

_1/4" BOLT, NUT AND STAR WASHER, TYP.

_1" x 16 GAUGE

HANGER STRAP

1" x 16 GAUGE

COLLAR DRAWN TIGHT

AROUND DUCT----

HANGER STRAP, TYP.

1" x 16 GAUGE CONTINUOUS

_1/2"ø ROD, TYP.

_2" x 2" x 1/8"

'ANGLE TOP '

AND BOTTOM

CONTINUOUS

__GASKET

ATTACH HOLD DOWN TO CURB

CANFAB 16 GAUGE HOLD DOWN

-ATTACH HOLD DOWN TO UNIT

AT 24" ON CENTER

WITH FOUR (4) 1/4" TEK SCREWS

WITH FOUR (4) 1/4" TEK SCREWS

-RIGID INSULATION BY CONTRACTOR

FOR ROOFING AND FLASHING, SEE ARCHITECTS DRAWING A12.40

FOR CONNECTION TO (E) CURB,

-GALVANIZED SHEET METAL CAP

__10d NAILS AT 6" ON CENTER

STAINLESS STEEL FASTENER WITH

—(E) CURB, (E) INSULATION, (E) FLASHING, ETC. TO REMAIN

—(E) BLOCKING AND (E) FASTENERS TO REMAIN, TYP

__1/2" PLYWOOD

NEOPRENE WASHER

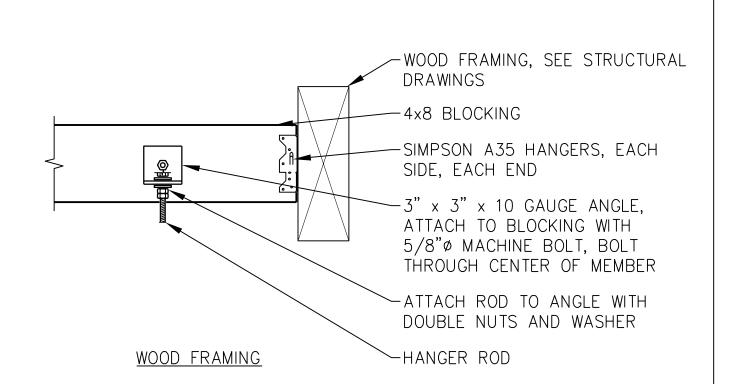
SEE STRUCTURAL DRAWINGS

7/S3, 8/S3, AND 9/S3

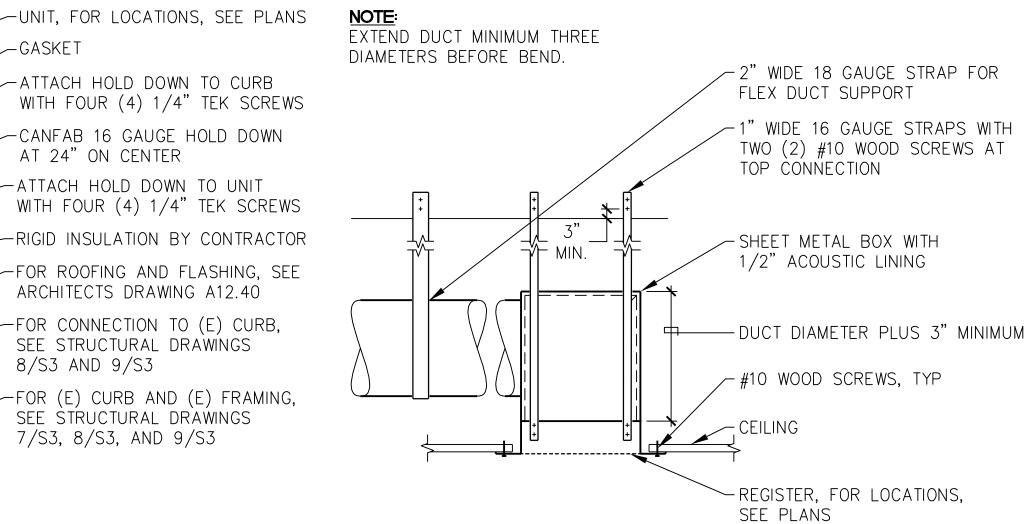
8/S3 AND 9/S3

DUCTS 24"Ø AND SMALLER

IN-LINE FAN MOUNTING M6.1 NO SCALE



TOP CONNECTIONS M6.1 NO SCALE



REGISTER MOUNTING HARD CEILING M6.1 NO SCALE



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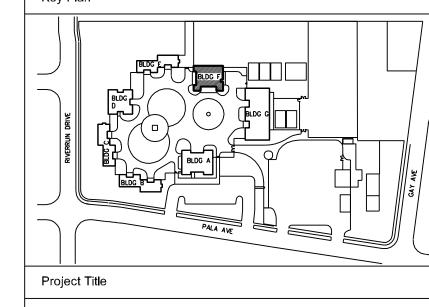
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		•

Drawing Title **DETAILS** MECHANICAL

12.15.16

Regulatory Agency Approval	Architect Seal
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01-116131	
ACFLSSS	
DSA File Number	 Drawing No
43-H10	
DSA Application Number	
01-116131	B 10 4
Project No.	M6.1
135145	

⁶ CAP AT (E) CURB

	PLUMBING CONNECTIONS/FIXTURE LIST															
FIXT. NO.	FIXTURE	MAKE & MODEL	W	IIN BRA	NCH SIZE CW HW	TRAP	CARRIER	SEAT	FLUSH VALVE	STOP/ SUPPLY	FAUCET OR CONTROL	ACCESSIBLE INSUL. KIT		MOUN STD		REMARKS
<u>WC-1</u>	WATER CLOSET	AMERICAN STANDARD "MADERA" 3461.000	4"	2"	1 1/2" -	INTEGRAL	-	CENTOCO 1500STSCC	SLOAN ROYAL 111-1.28	- -	-		- -	_	х	
<u>L-1</u>	LAVATORY	AMERICAN STANDARD "LUCERNE" 0356.421	2"	1 1/2"	1/2" 1/2"	JAY R. SMITH FIG. 2698	ZURN Z1231	<u>-</u> -	- -	MCGUIRE LFBV170	CHICAGO 333-E2805-665PSHAB	MCGUIRE PW2000WC	AMERICAN STANDARD 2411.015	_	Х	
<u>S-1</u>	SINK	JUST S-ADA-1719-A-GR	2"	1 1/2"	1/2" 1/2"	JUST JT-150	1 1	- -	- -	MCGUIRE LFH2165LKN3	CHICAGO 201–GN8AE3–317XKAB	MCGUIRE PW2000WC	JUST J-35-ADA	-	Х	1)
<u>HS-1</u>	HAND SINK	JUST HCL-23520	2"	1 1/2"	1/2" 1/2"	JUST JT-150	1 1	<u>-</u>	- -	MCGUIRE LFH2165LKN3	CHICAGO 895-317E35ABCP	MCGUIRE PW2000WC	JUST J-ADA-115-FS	_	Х	
<u>FD-1</u>	FLOOR DRAIN	JAY R. SMITH FIG. 2030T	2"	1 1/2"		INCLUDED WITH FIXTURE	- -	<u>-</u>	- -	- -	- -	- -	- -	_	-	2

1) BOWL DEPTH: 6 1/2", DRAIN LOCATION: RIGHT REAR.

(2) WITH 1/2" TRAP PRIMER CONNECTION AND NICKEL BRONZE STRAINER.

				W	ATE	R HEA	TE	RS	
MARK	LOCATION	GAL CAP	MBH IN	KW ELE	CT V/PH	RECOVERY 90° F RISE	FULL WT	MAKE & MODEL	REMARKS
<u>WH-1</u>	MULTI-PURPOSE ROOM F-1	19	-	2.5	120/1	11 GPH	225	A. O. SMITH EJCS-20	1
<u>WH-2</u>	SERVERY F-6	19	-	2.5	120/1	11 GPH	225	A. O. SMITH EJCS-20	2

1) FOR MOUNTING AND PIPING, SEE 3/P6.1.

2) FOR MOUNTING AND PIPING, SEE 6/P6.1.

PLUMBING GENERAL NOTES:

- 1. SEE ARCHITECTS PLANS AND DETAILS FOR ACCESSIBLE PLUMBING FIXTURE MOUNTING HEIGHTS,
- 2. ACCESSIBLE FIXTURES SHALL HAVE LEVER OR PUSH TYPE OPERATORS THAT REQUIRE LESS THAN FIVE (5) POUNDS FORCE TO ACTIVATE.
- OPERATING CONTROLS FOR ACCESSIBLE FIXTURES TO BE OPERABLE WITH ONE HAND, NO TIGHT GRASPING, PINCHING OR TWISTING OF THE WRIST.
- 4. FAUCETS WITH SELF-CLOSING VALVES SHALL REMAIN OPEN FOR NO LESS THAN 10 SECONDS AND NO MORE THAN 15 SECONDS.
- 5. INSULATE ALL PIPING UNDER ACCESSIBLE FIXTURES AND COVER ANY SHARP OR ABRASIVE SURFACES WITH PROTECTIVE PIPE COVERS.
- 6. ALL PLUMBING VENTS THROUGH ROOF SHALL OFFSET ABOVE CEILING AND NOT PENETRATE WALL
- 7. MAXIMUM DEPTH OF ACCESSIBLE SINKS SHALL BE 6 1/2".

DSA GENERAL NOTES

- 1. THE INTENT OF THE CONTRACT DOCUMENTS IS TO MODERNIZE THE SCHOOL'S CAMPUS. SHOULD ANY CONDITIONS DEVELOP NOT COVERED BY THE CONTRACT DOCUMENTS, A CONSTRUCTION CHANGE DOCUMENT DETAILING AND SPECIFYING THE REQUIRED WORK SHALL BE SUBMITTED TO AND APPROVED BY DSA BEFORE PROCEEDING WITH THE WORK.
- LATERAL SUPPORT FOR PIPE AND DUCTS TO COMPLY WITH SMACNA "GUIDELINES FOR SEISMIC RESTRAINTS OF MECHANICAL SYSTEMS AND PLUMBING SYSTEMS".
- 3. THE SEISMIC SUPPORT AND ANCHORAGE OF THE EQUIPMENT DESCRIBED ON THESE DRAWINGS HAVE BEEN ENGINEERED BY THE ENGINEER OF RECORD FOR CONFORMANCE WITH APPROPRIATE BUILDING CODES. THE ENGINEER OF RECORD WAS NOT RESPONSIBLE FOR THE EQUIPMENT DESIGN.
- 4. ALL MECHANICAL AND PLUMBING EQUIPMENT SHALL BE BRACED OR ANCHORED TO RESIST A HORIZONTAL FORCE ACTING IN ANY DIRECTION USING THE CRITERIA FROM CHAPTER 16A CALIFORNIA BUILDING CODE (CBC) 2013.
- 5. WHERE ANCHORAGE DETAILS ARE NOT SHOWN ON THE DRAWINGS, THE FIELD INSTALLATION SHALL BE SUBJECT TO THE APPROVAL OF THE STRUCTURAL ENGINEER AND THE FIELD REPRESENTATIVE OF THE DIVISION OF THE STATE ARCHITECT.

		PLUMBING LE	GEN	
SYMBOL	ABBRV.	IDENTIFICATION	ABBRV.	IDENTIFICATION
/////////////////////////////////////		REMOVE EXISTING	CD	CONDENSATE DRAIN
	CW	COLD WATER (DOMESTIC)	COORD	COORDINATE
	HW	HOT WATER	DN	DOWN
	V	VENT	DWGS	DRAWINGS
G	G	GAS (7"WC)	(E)	EXISTING
—— w ——	S OR W	SOIL OR WASTE ABOVE GRADE	MIN	MINIMUM
— — w — —	S OR W	SOIL OR WASTE BELOW GRADE	(N)	NEW
—— CD ——	CD	CONDENSATE DRAIN	VTR	VENT THROUGH ROOF
0		RISE UP	W/	WITH
G	ELL	ELBOW DOWN		
	TEE	TEE DOWN		
E		CAP		
	CONT	CONTINUATION		
<u> </u>		BALL VALVE		
->> OR		GATE VALVE		
XI	T&PRV	TEMP. & PRESS. RELIEF VALVE		
	CKV	CHECK VALVE		
		UNION		
	WHA	WATER HAMMER ARRESTOR		
Ф—	GCO/FCO	GRADE CLEANOUT/FLOOR CLEANOUT		
el	wco	WALL CLEANOUT		
耳		THERMOMETER		
•	P.O.C.	POINT OF CONNECTION		

GENERAL NOTES:

- 1. THIS PROJECT IS A REMODEL. THE PLANS AND SPECIFICATIONS INDICATE THE GENERAL EXTENT OF THE WORK BASED ON OWNER PROVIDED RECORD DRAWINGS AND LIMITED FIELD VERIFICATION. CONTRACTOR SHALL VISIT SITE, VERIFY EXISTING CONDITIONS, AND REPORT ANY DISCREPANCIES NOTED TO THE ARCHITECT PRIOR TO SUBMITTING A BID. CONTRACTOR SHALL BE RESPONSIBLE FOR THE DISCONNECTION AND RECONNECTION OF MECHANICAL, PLUMBING, AND ELECTRICAL SYSTEMS NECESSARY TO ACCOMPLISH THE WORK WHETHER OR NOT SPECIFIED AND/OR INDICATED.
- 2. ASBESTOS ABATEMENT BY OTHERS ON THIS PROJECT. ANY REQUIRED ASBESTOS ABATEMENT WORK WILL BE PROVIDED BY OTHERS. AREAS SUSPECTED OF ASBESTOS CONTAMINATION WHICH INTERFERE WITH WORK UNDER THIS PROJECT SHALL BE IDENTIFIED DURING THE EARLY PHASES OF CONSTRUCTION IN ORDER TO PROVIDE FOR TIMELY DISPOSITION. NO DELAYS IN CONSTRUCTION SCHEDULE WILL BE ALLOWED DUE TO IMPROPER COORDINATION.
- 3. PLUMBING CONTRACTOR SHALL NOTIFY GENERAL CONTRACTOR TO REPAIR WALL, FLOOR, AND CEILING SURFACES AS REQUIRED DUE TO DEMOLITION OR INSTALLATION WORK.
- 4. REMOVE ALL ABANDONED PIPING, EQUIPMENT, AND FIXTURES INTERFERING WITH NEW WORK WHETHER NEW WORK IS ARCHITECTURAL, STRUCTURAL, MECHANICAL, OR ELECTRICAL.
- 5. ABANDON IN PLACE ALL PIPING NOT INTERFERING WITH NEW WORK UNLESS REQUIRED FOR CONTINUED SERVICE.
- 6. CONTRACTOR SHALL SAW-CUT SLAB AS REQUIRED FOR INSTALLATION OF WASTE AND VENT PIPING
- 7. CUTTING OR CORING OF STRUCTURAL MEMBERS OR FOOTINGS IS PROHIBITED WITHOUT THE PRIOR WRITTEN CONSENT OF THE STRUCTURAL ENGINEER AND THE ARCHITECT.
- 8. FLASHING AND WEATHERPROOFING AT EXTERIOR PENETRATIONS ARE SHOWN ON THE ARCHITECTURAL DRAWINGS
- 9. COORDINATE WITH OWNER ON SPACE REQUIRED AND TIME SCHEDULE FOR DELIVERY OF ALL ITEMS WHICH ARE TO BE GIVEN TO THE OWNER FOR HIS DISPOSITION.
- 10. FOR ROOF PENETRATIONS WITHOUT CURBS, PROVIDE WEATHERPROOF FLASHING PER SMACNA ARCHITECTURAL SHEET METAL MANUAL AND DRAWING NOTES.
- 11. PRIME AND PAINT ALL EXPOSED PIPING PER ARCHITECTURAL SPECIFICATIONS. PAINT SHALL NOT EXCEED THE FOLLOWING VOLATILE ORGANIC COMPOUND CONTENT LIMITS: FLATS < 50 GRAMS PER LITER, NON-FLATS < 100 GRAMS PER LITER.
- 12. COORDINATE WITH ELECTRICAL ON REQUIRED POWER OUTLETS AND LIGHT SWITCHES NEAR PLUMBING
- 13. BRACE ALL GAS PIPING THAT IS 1" NOMINAL OR LARGER. BRACE ALL PIPING IN MECHANICAL ROOMS THAT IS 1 1/4" NOMINAL OR LARGER. BRACE ALL PIPING 2 1/2" NOMINAL OR LARGER. PIPING SUSPENDED BY INDIVIDUAL HANGERS 12" OR LESS IN LENGTH, AS MEASURED FROM THE TOP OF THE PIPE TO THE BOTTOM OF THE SUPPORT WHERE THE HANGER IS ATTACHED, NEED NOT BE
- 14. ALL PIPING, VALVES, EQUIPMENT, ETC. SHOWN IS NEW UNLESS OTHERWISE NOTED.

COMPONENT ANCHORAGE NOTES

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

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

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

COMPONENTS WEIGHING LESS THAN 400 POUNDS AND HAVING A CENTER OF MASS LOCATED 4'-0" OR LESS ABOVE THE ADJACENT FLOOR OR ROOF LEVEL THAT DIRECTLY SUPPORTS THE EQUIPMENT.
 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

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

PIPING AND DUCTWORK DISTRIBUTION SYSTEM BRACING NOTES

PIPING AND DUCTWORK 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., 13.6.8, 13.6.7, AND 2013 CBC, SECTIONS 1616A.1.23, 1616A1.24, 1616A.1.25, AND 1616A.1.26.

THE BRACING AND ATTACHMENTS TO THE STRUCTURE SHALL BE DETAILED ON THE APPROVED DRAWINGS OR THEY SHALL COMPLY WITH ONE OF THE OSHPD PRE-APPROVALS (OPA #) AS MODIFIED TO SATISFY ANCHORAGE REQUIREMENTS OF ACI 318, APPENDIX D.

AND BRACING OF THE PIPING AND DUCTWORK DISTRIBUTION SYSTEMS.

THE STRUCTURAL ENGINEER OF RECORD SHALL VERIFY THE ADEQUACY OF THE STRUCTURE TO SUPPORT THE HANGER AND BRACE LOADS.

COPIES OF THE MANUAL SHALL BE AVAILABLE ON THE JOBSITE PRIOR TO THE START OF HANGING

LIST OF GOVERNING CODES:

- 2013 BUILDING STANDARDS ADMINISTRATIVE CODE, PART 1, TITLE 24, C.C.R.
- 2013 CALIFORNIA BUILDING CODE (CBC), PART 2, TITLE 24, C.C.R. 2013 CALIFORNIA ELECTRICAL CODE, PART 3, TITLE 24, C.C.R.
- 2013 CALIFORNIA MECHANICAL CODE (CMC), PART 4, TITLE 24, C.C.R. 2013 CALIFORNIA PLUMBING CODE (CPC), PART 5, TITLE 24, C.C.R.
- 2013 CALIFORNIA ENERGY CODE (CEC), PART 6, TITLE 24, C.C.R.
 2013 CALIFORNIA FIRE CODE (CFC), PART 9, TITLE 24, C.C.R.

AND 4-341.

2013 CALIFORNIA GREEN BUILDING STANDARDS CODE, PART 11, TITLE 24, C.C.R.
2013 CALIFORNIA REFERENCED STANDARDS CODE, PART 12, TITLE 24, C.C.R.
TITLE 19, C.C.R., PUBLIC SAFETY, STATE FIRE MARSHAL REGULATIONS.

ALL SECTION NUMBERS BELOW REFER TO GROUP 1, CHAPTER 4, PART 1, TITLE 24, C.C.R.

1. ADDENDA, CONSTRUCTION CHANGES PER SECTION 4-338.

- ADDENDA, CONSTRUCTION CHANGES PER SECTION 4-338.
 INSPECTOR APPROVED BY DSA. INSPECTOR AND CONTINUOUS INSPECTION OF WORK PER SECTION 4-333(b) AND 4-342.
 TESTS AND TESTING LABORATORY PER SECT. 4-335.
- SPECIAL INSPECTION PER SECT. 4-333(d).
 CONTRACTOR SHALL SUBMIT VERIFIED REPORTS PER SECT. 4-336 AND 4-343(c).
 ADMINISTRATION OF CONSTRUCTION PER PART 1, TITLE 24, C.C.R. DUTIES OF ARCHITECT, STRUCTURAL ENGINEER OR PROFESSIONAL ENGINEER PER SECT. 4-333(a)
- GOVERNING CODES: TITLE 24.
 A COPY OF PARTS 1, 2, 3, 4, AND 5 OF TITLE 24 SHALL BE KEPT AVAILABLE IN THE FIELD DURING CONSTRUCTION.
- 9. DSA SHALL BE NOTIFIED OF START OF CONSTRUCTION PER SECT. 4-331. 10. SUPERVISION BY THE OFFICE OF REGULATION SERVICE PER SECT. 4-334.



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AE Project # : 20160110

Key Plan

BLDC F

BLDC F

BLDC F

BLDC F

PALA AVE

Project Title

FOOTHILL HIGH SCHOOL HOOPER HALL AND QUAD MODERNIZATION

230 PALA AVENUE SAN JOSE, CA 95127

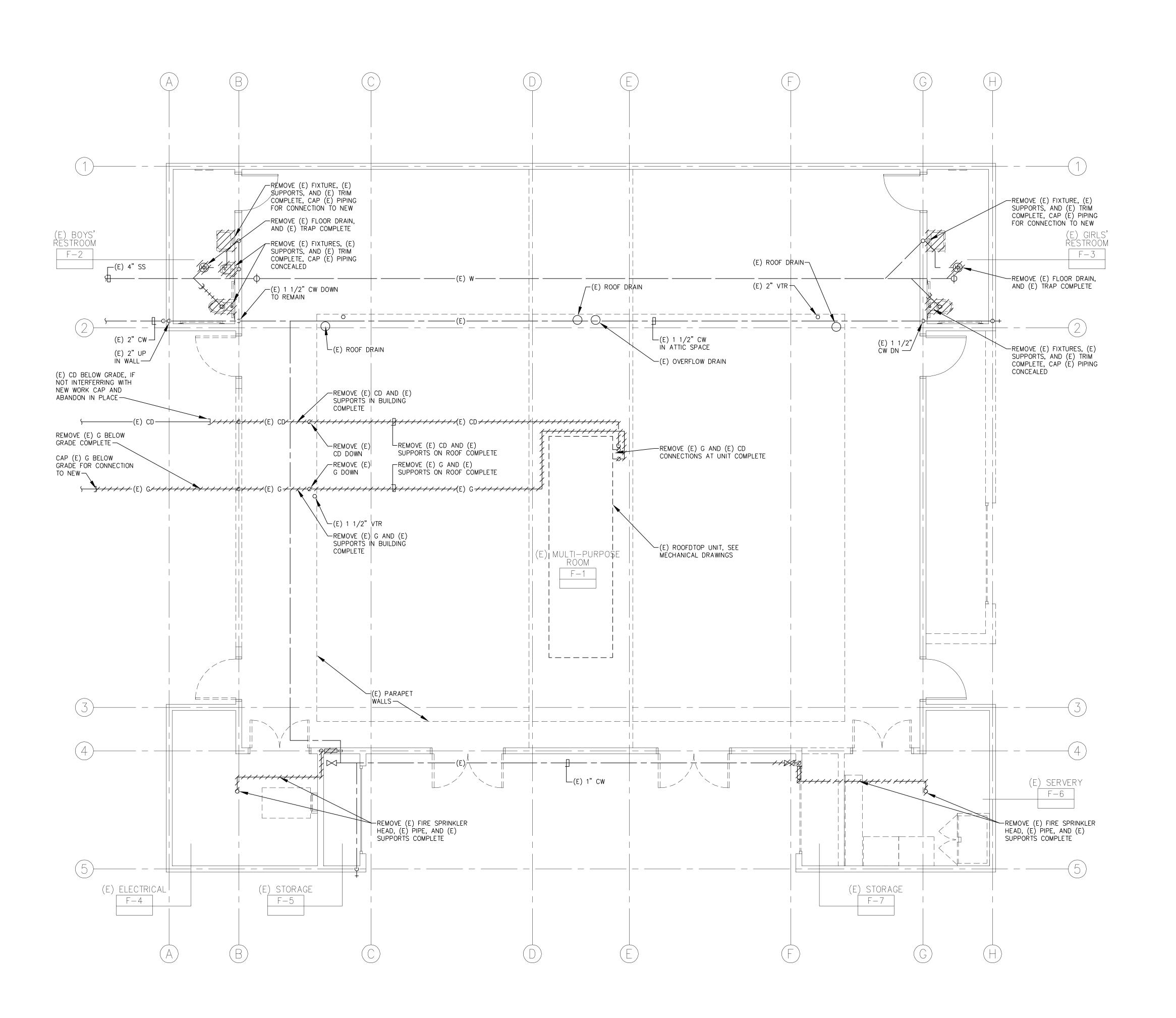
EAST SIDE UNION HIGH SCHOOL DISTRICT

No	Revisions/Submissions	Date
-	100% Schematic Design	06.22.16
-	100% Design Development	07.14.16
-	100% Construction Documents	08.05.16
-	DSA Approval	12.15.16

LEGEND, SCHEDULES, AND NOTES PLUMBING

DSA File Number 43-H10

DSA Application Number
01-116131
Project No.







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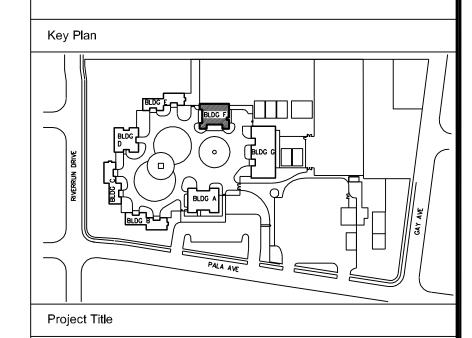
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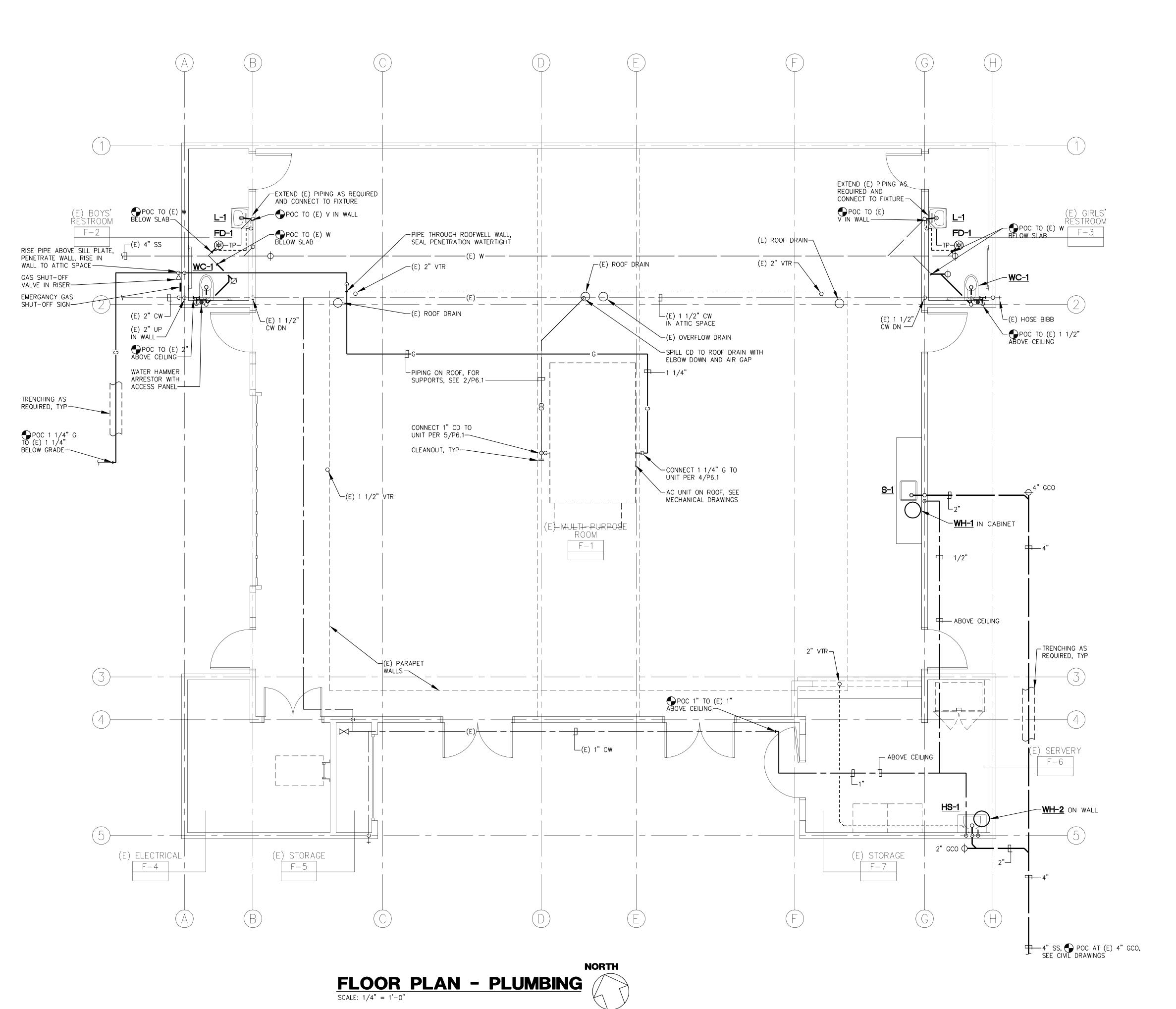
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-	DSA Approval	12.15.16
	20, (, (pp. 676)	12110110

FLOOR PLAN PLUMBING, DEMOLITION

Regulatory Agency Approval	Architect Seal
IDENTIFICATION STAMP DIV. OF THE STATE ARCHITECT OFFICE OF REGULATION SERVICES	
01-116131	
ACFLSSSDATE	
DSA File Number	Drawing No
43-H10	

FLOOR PLAN - PLUMBING - DEMOLITION

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





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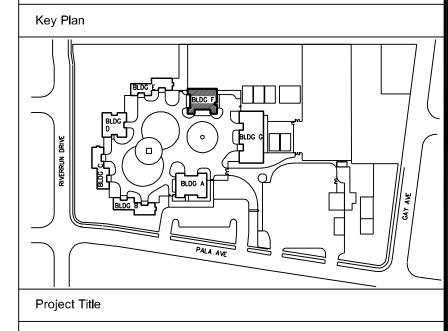
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FLOOR PLAN **PLUMBING**

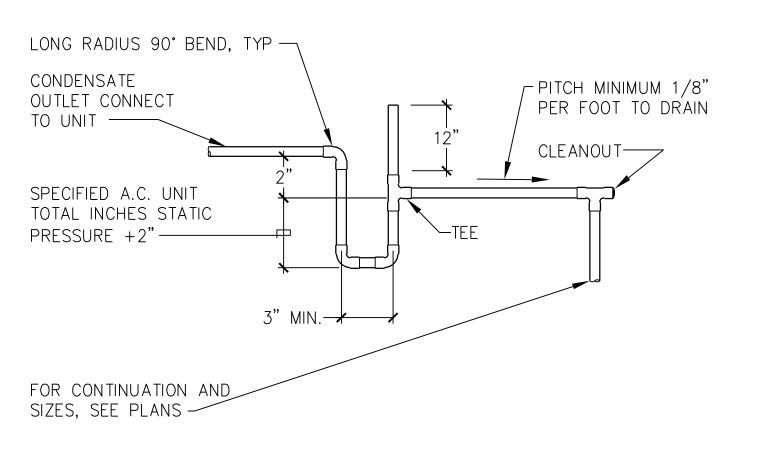
Regulatory Agency Approval	Architect Seal
DENTIFICATION STAMP DIV. OF THE STATE ARCHITECT OFFICE OF REGULATION SERVICES 01-116131	
ACFLSSS	
DSA File Number	 Drawing No

DSA Application Number

12.15.16

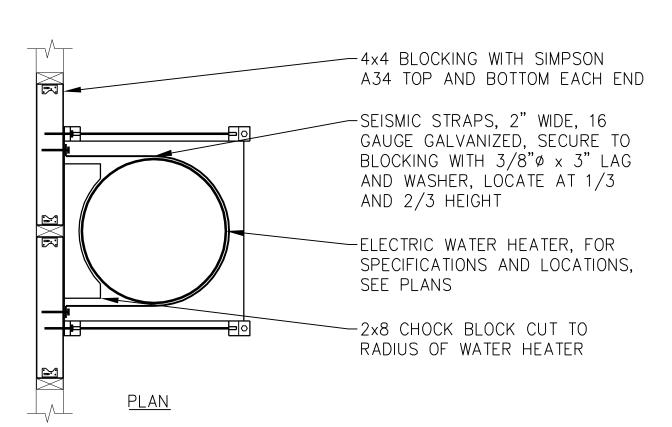
01-116131 135145

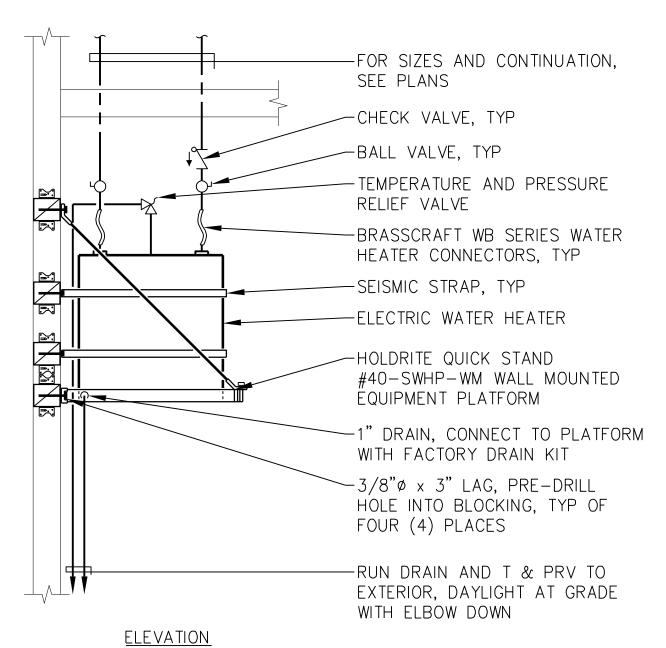
P2.2



CONDENSATE DRAIN PIPING SHALL BE TYPE "L" COPPER TUBING WITH WROUGHT COPPER FITTINGS.

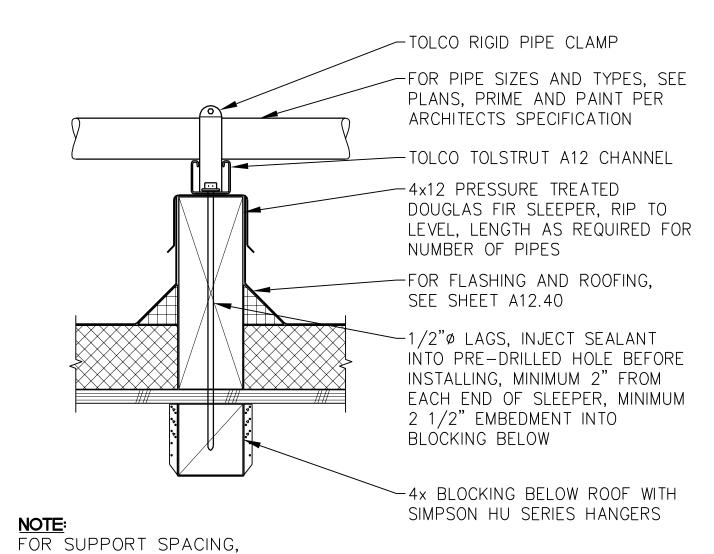
CONDENSATE TRAP P6.1 NO SCALE



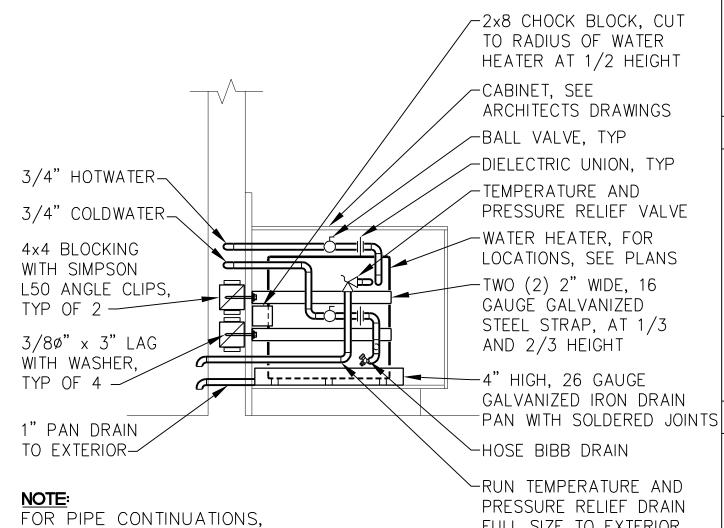


WALL MOUNTED ELECTRIC WATER HEATER P6.1 NO SCALE

NOT USED P6.1 NO SCALE



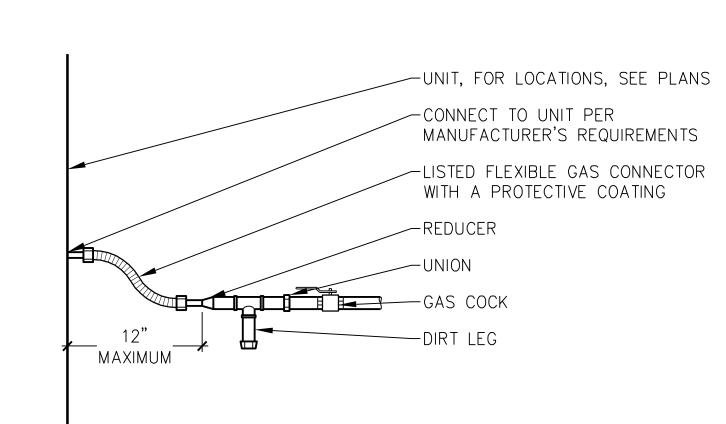




FULL SIZE TO EXTERIOR

ELECTRIC WATER HEATER IN CABINET P6.1 NO SCALE

SEE PLANS.







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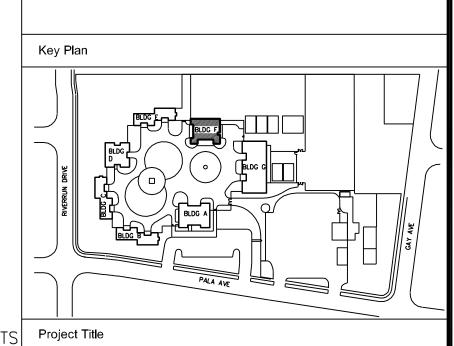
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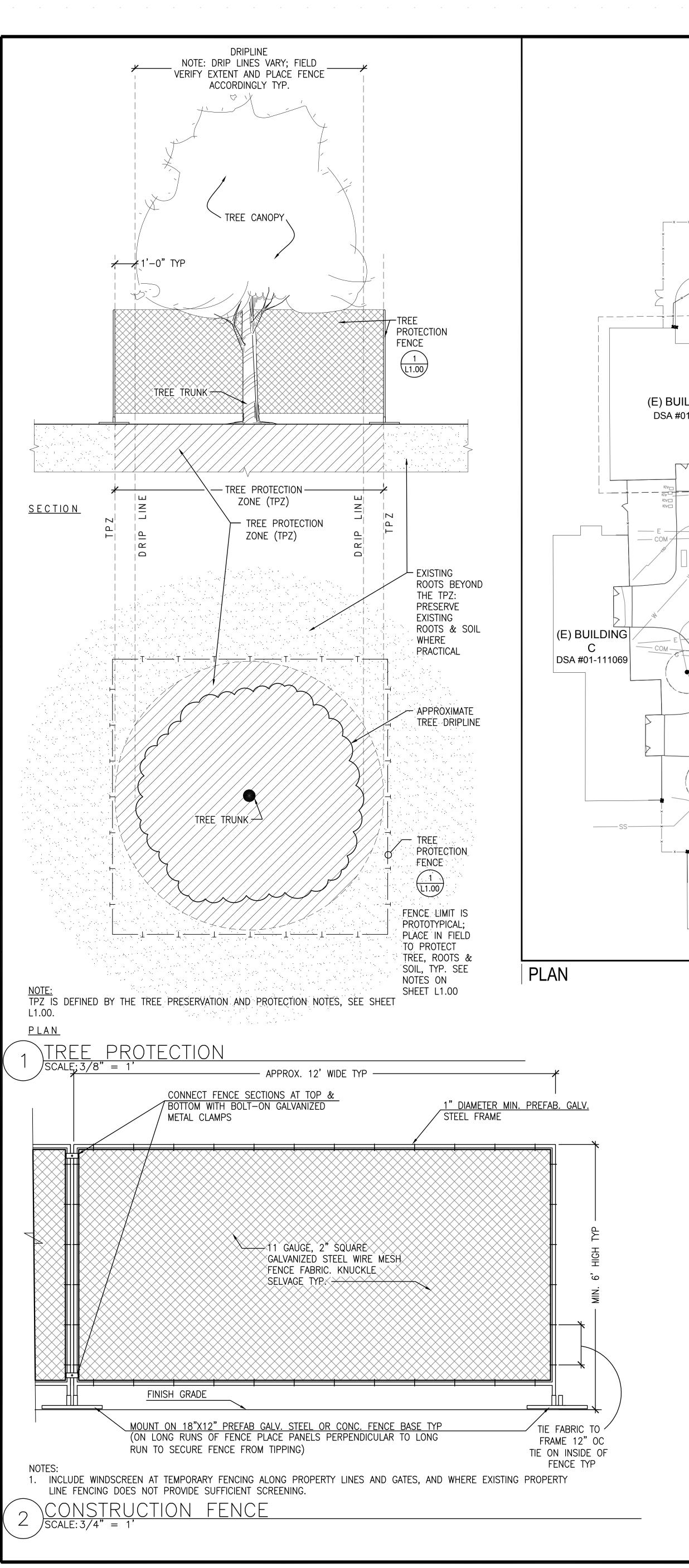
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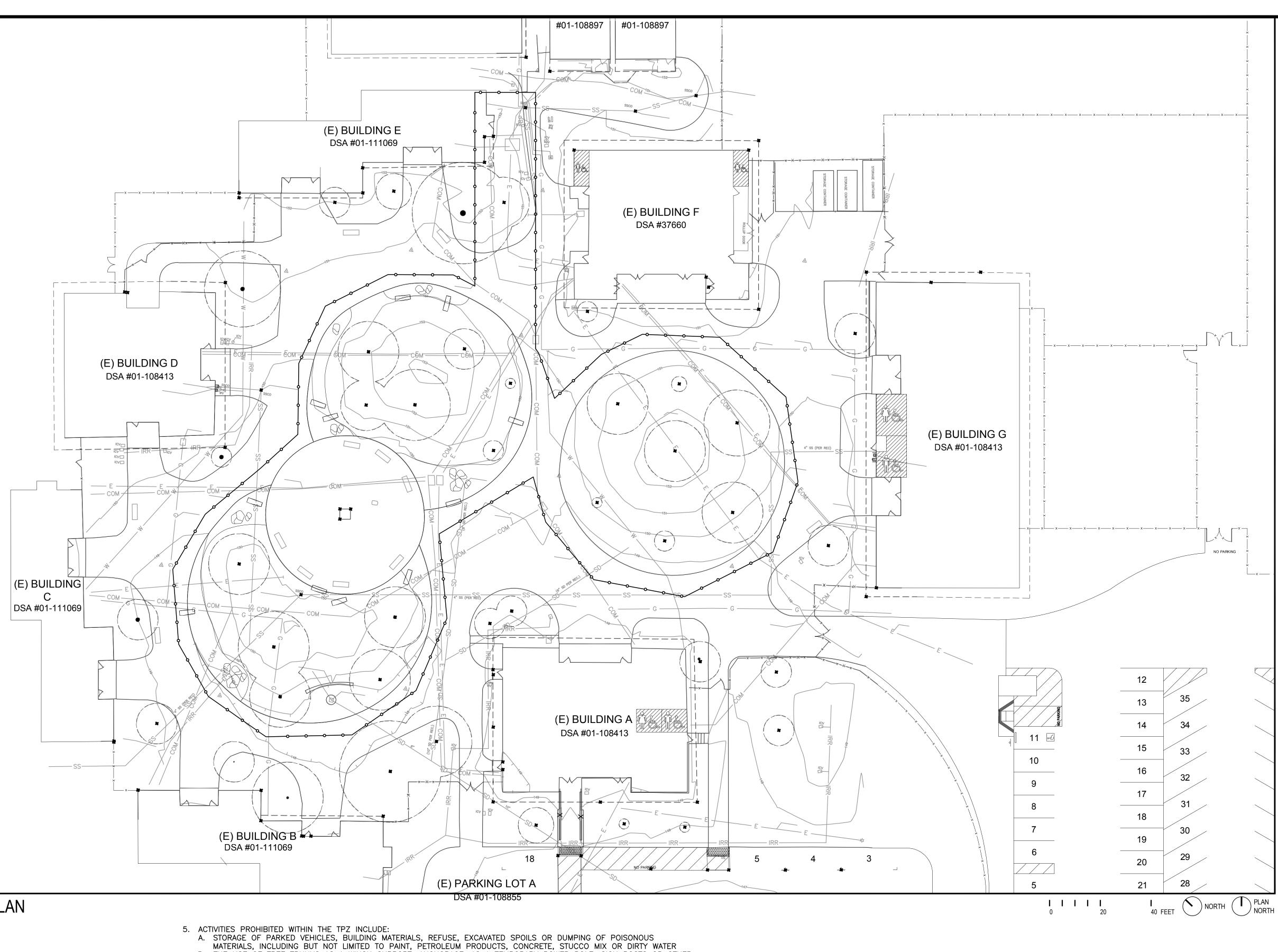
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Drawing Title DETAILS PLUMBING

Architect Seal Regulatory Agency Approval IDENTIFICATION STAMP
DIV. OF THE STATE ARCHITECT
OFFICE OF REGULATION SERVICES DSA File Number

DSA Application Number 01-116131 P6.1 135145





B. THE USE OF TREE TRUNKS AS A WINCH SUPPORT, ANCHORAGE, AS A TEMPORARY POWER POLE, SIGN POSTS OR OTHER SIMILAR FUNCTION
 C. CUTTING OF TREE ROOTS BY UTILITY TRENCHING, FOUNDATION DIGGING, PLACEMENT OF CURBS AND TRENCHES AND OTHER MISCELLANEOUS EXCAVATION

D. SOIL DISTURBANCE, SOIL COMPACTION OR GRADE CHANGES
E. DRAINAGE CHANGES
F. FIRES

10. TREE REMOVAL PROCEDURE

6. ACTIVITIES PERMITTED OR REQUIRED WITHIN THE TPZ INCLUDE:
A. MULCHING — DURING CONSTRUCTION, IT IS RECOMMENDED THAT WOOD CHIPS OR SIMILAR MATERIAL BE SPREAD WITHIN THE TPZ TO A 2—INCH DEPTH, LEAVING THE TRUNK CLEAR OF MULCH.
B. ROOT BUFFER — WHEN AREAS WITHIN THE TPZ CANNOT BE FENCED, A ROOT BUFFER IS REQUIRED AND SHALL COVER

THE ROOT ZONE.

C. IRRIGATION, AERATION, FERTILIZING OR OTHER BENEFICIAL PRACTICES THAT HAVE BEEN SPECIFICALLY APPROVED FOR USE BY THE LANDSCAPE ARCHITECT WITHIN THE TPZ.

D. EXISTING IRRIGATION IS TO BE MAINTAINED AND OPERATED 100% DURING CONSTRUCTION. SEE IRRIGATION PLANS.

7. ROOT BUFFER SHALL BE DEFINED AS: A TEMPORARY LAYER OF MATERIAL TO PROTECT THE SOIL TEXTURE AND ROOTS. THE BUFFER SHALL CONSIST OF A BASE COURSE OF TREE CHIPS SPREAD OVER THE ROOT AREA, KEEPING ONE FOOT CLEAR OF THE TRUNK CLEAR, TO A 4"— 6" DEPTH, CAPPED BY A BASE COURSE OF 3/4—INCH QUARRY GRAVEL TO STABILIZE A 3/4" PLYWOOD ON TOP.

8. EROSION CONTROL
IF A TREE IS ADJACENT TO OR IN THE IMMEDIATE PROXIMITY TO A GRADE SLOPE OF 8% (23 DEGREES) OR MORE, THEN
APPROVED EROSION CONTROL OR SILT BARRIERS SHALL BE INSTALLED OUTSIDE THE TPZ TO PREVENT SILTATION AND/OR
EROSION WITHIN THE TPZ.

IF TRENCHING OR PIPE INSTALLATION HAS BEEN APPROVED WITHIN THE TPZ, THEN THE TRENCH SHALL BE EITHER CUT BY HAND, AIR SPADE OR BY MECHANICALLY BORING THE TUNNEL UNDER THE ROOTS WITH A HORIZONTAL DIRECTIONAL DRILL AND HYDRAULIC OR PNEUMATIC AIR EXCAVATION TECHNOLOGY. IN ALL CASES, INSTALL THE UTILITY PIPE, IMMEDIATELY BACKFILL WITH SOIL AND SOAK WITHIN THE SAME DAY.

10. TREE PRUNING AND SURGERY

A. ROOT PRUNING: ROOT PROTECTION MEASURES MUST BE IN PLACE PRIOR TO THE COMMENCEMENT OF CONSTRUCTION ACTIVITIES. NECESSARY ROOT PRUNING IS BEST ACCOMPLISHED PRIOR TO THE BEGINNING OF CONSTRUCTION ACTIVITIES WHEN EXCAVATION EQUIPMENT WILL BE USED. AFTER BEING EXPOSED BY HAND OR AIR EXCAVATION, ROOTS ARE PRUNED UNDER ARBORIST SUPERVISION. CONSTRUCTION ACTIVITIES ARE THEN FREE TO OCCUR OUTSIDE OF THE ROOT PRUNING BOUNDARY.

B. DO NOT CUT MAIN LATERAL ROOTS OR TAPROOTS. CUT ONLY SMALLER ROOTS THAT INTERFERE WITH INSTALLATION OF UTILITIES. CUT ROOTS WITH SHARP PRUNING INSTRUMENTS; DO NOT BREAK OR CHOP.

TREES MAY ONLY BE REMOVED IF SPECIFICALLY NOTED ON PLAN OR APPROVED FOR REMOVAL BY THE OWNER. WHEN TREES ARE REMOVED, TREE REMOVAL PRACTICES APPLY:

A. ANY TREE TO BE REMOVED THAT MAY IMPACT A PROTECTED TREE SHALL BE DONE UNDER THE SUPERVISION OF A CERTIFIED ARBORIST.

B. THE REMOVAL OF TREES THAT EXTEND INTO THE BRANCHES OR ROOTS OF PROTECTED TREES SHALL NOT BE ATTEMPTED BY DEMOLITION OR CONSTRUCTION PERSONNEL, GRADING OR OTHER HEAVY EQUIPMENT. A CERTIFIED ARBORIST OR CERTIFIED TREE WORKER SHALL REMOVE OR OVERSEE THE REMOVAL OF THE TREE IN A MANNER THAT

CAUSES NO DAMAGE ABOVE OR BELOW GROUND TO TREES THAT SHALL REMAIN.

11. SUPPLEMENTAL IRRIGATION:
PROVIDE SUPPLEMENTAL IRRIGATION, AS REQUIRED, BASED ON THE LEVEL OF ROOT LOSS, SOIL CONDITIONS, TREE HEALTH
AND TIME OF YEAR.

LEGEND SYMBOL

<u>DESCRIPTION</u>

CONSTRUCTION FENCE TO REMAIN IN PLACE FOR THE DURATION OF CONSTRUCTION AND MAINTENANCE PERIOD. PLACE GATES APPROVED BY PROJECT MANAGER. ADJUST LOCATION AS REQUIRED.

TREE PRESERVATION AND

<u>PROTECTION NOTES</u>

IT IS IMPORTANT THAT CONSTRUCTION CREWS UNDERSTAND TREE PROTECTION REQUIREMENTS. PERSONNEL WORKING ON—SITE SHOULD BE PROVIDED WITH AN ORIENTATION TO TREE PRESERVATION MEASURES AND MONITORING FOR TREE PRESERVATION.

2. APPRAISED VALUE:
A. IF A TREE IS DAMAGED, A CERTIFIED ARBORIST DETERMINES THE TREE APPRAISAL VALUE BY ADJUSTING THE TREE'S

BASIC VALUE BY ITS CONDITION, LOCATION AND SPECIES USING THE MOST RECENT EDITION OF THE GUIDE FOR PLANT APPRAISAL. THE FORMULA USED SHOULD BE NOTED.

B. REFER TO THE COUNCIL OF TREE AND LANDSCAPE APPRAISERS, CURRENT EDITION, GUIDE FOR PLANT APPRAISAL, CHAMPAING II. INTERNATIONAL SOCIETY OF ARROPICULTURE

CHAMPAING, IL: INTERNATIONAL SOCIETY OF ARBORICULTURE.

3. TREE PROTECTION ZONE (TPZ):

EACH TREE TO BE PROTECTED SHALL HAVE A DESIGNATED TPZ IDENTIFYING THE AREA SUFFICIENTLY LARGE ENOUGH TO PROTECT THE TREE, ROOTS AND SOIL FROM DISTURBANCE. THE TPZ IS DEFINED AS THE AREA UNDER THE TREE CANOPY AND EXTENDING TO 1'-0" PAST THE DRIPLINE OF THE TREE. FOR EXAMPLE, A TREE WITH A CANOPY 25' WIDE IN DIAMETER WOULD HAVE A TPZ OF 27' WIDE. ANY DEVIATION IN DETERMINING THE TPZ WILL REQUIRE APPROVAL BY THE CONSTRUCTION MANAGER. SEE TREE PROTECTION DETAIL 1

4. PROTECTIVE TREE FENCING FOR TREES:

FENCED ENCLOSURES SHALL BE ERECTED AROUND TREES TO BE PROTECTED TO ESTABLISH THE TPZ IN WHICH NO SOIL OR ROOT DISTURBANCE IS PERMITTED AND ACTIVITIES ARE RESTRICTED. MAINTAIN TPZ FREE OF WEEDS AND TRASH.

A. SIZE AND TYPE OF FENCE: ALL TREES TO BE PRESERVED SHALL BE PROTECTED WITH A 6' HIGH, MINIMUM 12 GAUGE CHAIN LINK FENCE. MOUNT FENCES ON 2—INCH DIAMETER GALVANIZED STEEL POSTS MOUNTED ON SUPPORT FEET.

B. DURATION: TREE FENCING SHALL BE ERECTED BEFORE ANY DEMOLITION, GRADING OR CONSTRUCTION BEGINS AND

SHALL REMAIN IN PLACE THROUGH CONSTRUCTION.

C. TREE PROTECTION SIGN: A WARNING SIGN SHALL BE PROMINENTLY DISPLAYED ON EACH FENCE. SIGN SHALL NOT BE LESS THAN 12" X 12" AND SHALL READ: "TREE PROTECTION FENCE. DO NOT REMOVE OR RELOCATE WITHOUT AUTHORIZATION."

D. PLACEMENT: TREE PROTECTION FENCE SHALL BE LOCATED 1'-0" OUTSIDE THE TREE DRIPLINE OR AS OTHERWISE SHOWN ON PLAN. A TREE PROTECTION FENCE LOCATED WITHIN THE TPZ SHALL NOT EXEMPT THE CONTRACTOR FROM COMPLYING WITH THE REQUIREMENTS OF THE TPZ FOR THE ENTIRE LIMITS OF THE TPZ.

E. TEMPORARY REMOVAL OR RELOCATION: RELOCATION OR REMOVAL FOR CONSTRUCTION REQUIRES AUTHORIZATION AND IS

. TEMPORARY REMOVAL OR RELOCATION: RELOCATION OR REMOVAL FOR CONSTRUCTION REQUIRES AUTHORIZATION AND IS
PERMITTED ONLY AS REQUIRED FOR CONSTRUCTION. FENCE MUST BE RESTORED TO ORIGINAL LOCATION AS SOON AS
PRACTICAL AS CONSTRUCTION ACTIVITIES PERMIT.

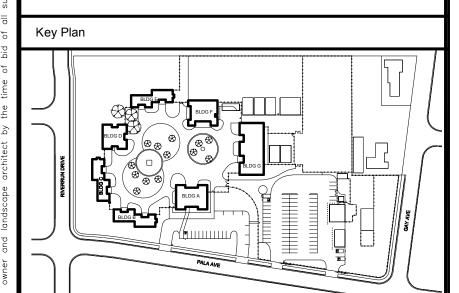


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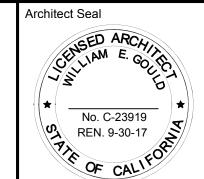
TREE PROTECTION LEGEND AND PLAN

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01-116131

___FLS____

DATE_



DSA File Number
43-H10

DSA Application Number
01-116131

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12.15.16

L1.00



<u>DRIP IRRIGATION LEGEND</u>

1 L3.03	\oplus	XCZ-LF-100-PRF (FLOW BETWEEN 0.2 TO 4.9 GPM) XCZ-PRB-100-COM (FLOW BETWEEN 5.0 TO 20 GPM)	RAINBIRD	XZC CONTROL ZONE KIT, WITH STAINLESS STEEL SCREEN FILTER, PRESSURE REGULATED REMOTE CONTROL VALVE, ISOLATION BALL VALVE & EFFLUENT SOLENOID & ID TAG
4 L3.03		PVC TO DRIP CONNECTION	RAINBIRD	PVC TO DRIPPERLINE CONNECTION. USE RAINBIRD EASY FIT COMPRESSION FITTING SYSTEM COMPATIBLE WITH DRIPPERLINE PIPE. USE THIS CONNECTION AT TIGHT BENDS AND AS INDICATED ON DETAIL DIAGRAM.
(L3.03)				VALVE CALLOUT W/ DRIP VALVE INFO: DRIP LINE MODEL, FLOW RATE & LINE SPACING
4	1A RGP 212-E	•		— DRIP LINE MODEL # (GPH AND EMITTER SPACING)
`	1" 12"	MAVIMITA	LINIT	— DRIP LINE SPACING (MAX)
	1.0	MAXIMUM RUN LEN	IGTH @ 30PSI:	
/ 4 1	• • • •	XFSP-04-18-500 481' XFSP-09-18-500 350' PURPLE	RAINBIRD	0.43 GPH PURPLE DRIPPERLINE WITH COPPER SHIELD EMITTERS AT 18" ON CENTER 0.9 GPH PURPLE DRIPPERLINE WITH COPPER SHIELD EMITTERS AT 18" ON CENTER
L3.03	; 	XFSP-04-12-500 447' XFSP-09-12-500 230'	RAINBIRD	0.42 GPH PURPLE DRIPPERLINE WITH COPPER SHIELD EMITTERS AT 12" ON CENTER 0.9 GPH PURPLE DRIPPERLINE WITH COPPER SHIELD EMITTERS AT 12" ON CENTER
3 L3.03		MDC ###, AS DETAILED	RAINBIRD	DRIPPERLINE TO DRIPPERLINE CONNECTION. USE RAINBIRD EASY FIT COMPRESSION FITTING SYSTEM COMPATIBLE WITH DRIPPERLINE PIPE. USE THIS CONNECTION AT TIGHT BENDS AND AS INDICATED ON DETAIL DIAGRAM.
5 L3.03	⊗	ARV050	RAINBIRD	AIR VACUUM RELIEF VALVE AND BOX PER DETAIL. CROSS—CONNECT ALL DRIPPERLINES TO AVRV WITH BLANK TUBING
7 L3.03	•	SEE DETAIL	RAINBIRD	MANUAL FLUSH VALVE ASSEMBLY AND AUTO-FLUSH VALVE IN BOX PER DETAIL.
	*	OPERIND	RAINBIRD	POP-UP INDICATOR. SET FLUSH WITH FINISH GRADE. INSTALL PER MANUFACTURER'S SPECIFICATIONS. LOCATE AWAY FROM PATHWAYS, AT LOCATIONS DIRECTED BY THE SITE MAINTENANCE PERSONNEL.
(5) L3.01) -		PVC: CLASS 200 SCH 40 UNDER PAVING	PURPLE PIPE TYP	PURPLE NON-PRESSURE LATERAL IRRIGATION PIPE WITH SOLVENT WELD SCHEDULE 40 FITTINGS. 3/4" MIN PIPE SIZE. INSTALL AS COLLECTOR LATERAL FOR ALL WATER THAT HAS PASSED THROUGH DRIPPERLINES
6	©	1806-SAM-PRS-U15F	RAINBIRD BLACK	LAWN SPRAY, 6" POP-UP, SEAL-A-MATIC & PRESS REG W/ 15' U-SERIES NOZ 15' 3.70 30 1.58
L3.02	<u></u>	1806—SAM—PRS—U15TQ	RAINBIRD BLACK	LAWN SPRAY, 6" POP-UP, SEAL-A-MATIC & PRESS REG W/ 15' U-SERIES NOZ 15' 2.78 30 1.58
	W	1806—SAM—PRS—U15TT	RAINBIRD BLACK	LAWN SPRAY, 6" POP-UP, SEAL-A-MATIC & PRESS REG W/ 15' U-SERIES NOZ 15' 2.48 30 1.58 LAWN SPRAY, 6" POP-UP, SEAL-A-MATIC & PRESS REG W/ 15' U-SERIES NOZ 15' 1.85 30 1.58
		1806-SAM-PRS-U15H 1806-SAM-PRS-U15T	RAINBIRD BLACK	
,	© ©	1806-SAM-PRS-U15Q	RAINBIRD BLACK RAINBIRD BLACK	LAWN SPRAY, 6" POP-UP, SEAL-A-MATIC & PRESS REG W/ 15' U-SERIES NOZ 15' 1.23 30 1.58 LAWN SPRAY, 6" POP-UP, SEAL-A-MATIC & PRESS REG W/ 15' U-SERIES NOZ 15' 0.92 30 1.58
,		1000 3/11/1 11/3 0104	MAINDING BLACK	E WIT STIVE, O TOT OI, SEAL A WATER OF THESE MY TO O SERIES NOT 15 0.82 50 1.30
<u>V</u> .	ALVE BO	X SPECIFICATIONS:		

1. PLASTIC IRRIGATION VALVE BOXES SHALL BE GREEN COLOR, USE CONCRETE BOXES IN DG & PAVING AREAS AS SHOWN IN THE IRRIGATION DETAILS.

1. PLASTIC IRRIGATION VALVE BOXES SHALL BE GREEN COLOR, USE CONCRETE BOXES IN DO & FAVING ANELS AS SHOWN IN THE HUMBERS.

2. IRRIGATION VALVE LOCATIONS ARE SHOWN DIAGRAMMATICALLY ON THE IRRIGATION PLANS. SEE PLANTING PLAN FOR INSTALLATION LOCATIONS, AS WELL AS VALVE BOX LAYOUT DETAIL

(13.01)

SPRAY AND GENERAL IRRIGATION NOTES:

- 1. INSTALL MAIN LINES, LATERAL LINES AND EQUIPMENT IN PLANTING AREAS AND NOT UNDER PAVEMENT EXCEPT WHERE NECESSARY BETWEEN PLANTERS SEPARATED BY PAVEMENT.
- 2. INSTALL ALL HEADS ADJACENT TO BUILDINGS AT LEAST 18" AWAY FROM THE BUILDING FACE.
- 3. THE CONTRACTOR SHALL VERIFY THAT THERE IS NO OVERSPRAY ONTO BUILDINGS, WALLS, COLUMNS OR FENCES. ADJUST OR RENOZZLE AS REQUIRED. 4. INSTALL SLEEVES FOR ALL LATERALS UNDER CONCRETE UNLESS SPECIFICALLY NOTED. NO SLEEVES ARE REQUIRED FOR LATERAL LINES UNDER ASPHALTIC CONCRETE, UNLESS OTHERWISE SHOWN ON
- 5. IRRIGATION VALVE LOCATIONS ARE SHOWN DIAGRAMMATICALLY ON THE IRRIGATION PLANS. SEE PLANTING PLAN AND VALVE BOX LAYOUT DETAIL FOR INSTALLATION LOCATIONS. $\binom{6}{13.01}$

SUBSURFACE DRIP IRRIGATION NOTES:

- 1. PROVIDE TEMPORARY SUPPLEMENTAL OVERHEAD IRRIGATION TO ESTABLISH PLANTS.
- 2. HOLD DRIPPERLINES 18" OFF FACE OF BUILDING, 6" OFF PAVING @ SHRUBS, 2" OFF PAVING @ SOD, TURF & GROUNDCOVER TYP. 3. SPACE DRIPPERLINES EQUALLY WITHIN EACH ZONE UNLESS OTHERWISE NOTED (12" OR 18" O.C. MAX PER LEGEND)
- 4. FOR SLOPES GREATER THAN 10:1, MODIFY DRIPPERLINE SPACING ON THE BOTTOM 1/3 OF THE SLOPE TO BE 25% GREATER AND OMIT THE DRIPPERLINE AT THE BOTTOM OF SLOPE.
- 5. DRIP SYSTEMS WITH 12" & 18" EMITTER SPACING HAVE DIFFERENT PRECIPITATION RATES. INDEPENDENTLY TEST AND SET RUN TIMES FOR THESE TWO CONDITIONS. 6. INSTALL AVRV(S) AT HIGH POINT(S) OF EACH PLANTING AREA. AVRV'S ARE SHOWN TO INDICATE INTENT- LOCATE AS REQUIRED BASED ON ACTUAL GRADES OF THE SITE. LOCATE (1) AVRV PER 500' OF DRIPPERLINE TUBING, TYP. SEE DETAIL 5

IRRIGATION SYSTEM MAINTENANCE

- 1. SYSTEM OBSERVATION: THE CONTRACTOR SHALL VISUALLY CHECK ALL SYSTEMS FOR PROPER OPERATION ON A WEEKLY BASIS AND MAKE ALL NECESSARY REPAIRS. ALL EQUIPMENT SHALL BE ADJUSTED AS NECESSARY FOR PROPER COVERAGE AND FUNCTION.
- 2. ESTABLISHMENT IRRIGATION SCHEDULING: FOR THE FIRST 60-DAYS OF PLANTING ESTABLISHMENT AND MAINTENANCE, PROGRAM CONTROLLER IN A PLANTING ESTABLISHMENT IRRIGATION MODE. SCHEDULE IRRIGATION TO ESTABLISH PLANTINGS PER THE SPECIFICATIONS.
- 3. CLIMATOLOGICALLY CONTROLLED IRRIGATION SCHEDULING: FOR THE LAST 60-DAYS OF PLANTING ESTABLISHMENT AND MAINTENANCE, PROGRAM CONTROLLER TO RUN AUTOMATICALLY, SITE-SPECIFIC CLIMATOLOGICAL EVAPOTRANSPIRATION (ET) DATA. OPTIMIZE AUTOMATIC SCHEDULE AS REQUIRED FOR PLANT MATERIALS, SUN, ASPECT, SOLAR REFLECTANCE & HEAT ISLANDS, LOCALITY, SLOPE, AND THE INSTALLED IRRIGATION SYSTEM. CHECK SYSTEM FOR PROPER FUNCTION AND ADJUST AUTOMATIC SCHEDULE WEEKLY TO PROVIDE OPTIMAL CONDITIONS FOR SUSTAINING HEALTHY PLANTING.
- 4. MAINTENANCE STAFF TRAINING: PERFORM A FULL INSTRUCTION SESSION IN THE PRESENCE OF THE DESIGNATED MAINTENANCE PERSONNEL DEMONSTRATING THE IRRIGATION CONTROLLER SYSTEM, PROGRAM ADJUSTMENT AND OVER-RIDES, SYSTEM TESTING, TROUBLE-SHOOTING, ETC. INCLUDE INSTRUCTIONS ON HOW TO TURN OFF SYSTEM IN CASE OF EMERGENCY.
- 5. REPAIRS: DURING THE PLANT ESTABLISHMENT & MAINTENANCE PERIOD, ALL REPAIRS MADE TO THE IRRIGATION SYSTEM SHALL BE AT THE CONTRACTOR'S EXPENSE. ALL REPAIRS SHALL BE MADE WITHIN TWENTY-FOUR (24) HOURS.
- 6. SYSTEM CERTIFICATION: OBTAIN A LETTER OF CERTIFICATION FROM CONTROLLER MANUFACTURER'S REPRESENTATIVE CERTIFYING THAT THE CONTROLLER IS PROPERLY PROGRAMMED AND IN WORKING ORDER BEFORE THE END OF THE MAINTENANCE PERIOD.

PRESERVE AND PROTECT EXISTING IRRIGATION SYSTEM

CONTRACTOR IS RESPONSIBLE FOR ENSURING THE PRESERVATION AND PROTECTION OF THE EXISTING IRRIGATION SYSYTEM(S) UNLESS OTHERWISE NOTED IN THESE DRAWINGS. THIS INCLUDES, BUT IS NOT RESTRICTED TO:

- 1. ALL EXISTING IRRIGATION CONTROLLERS, SHOWN OR NOT SHOWN IN THESE DRAWINGS.
- 2. ALL POINTS OF CONNECTION. 3. ALL RUNS OF MAINLINE OR LATERAL LINE ENCOUNTERED DURING CONSTRUCTION OR OTHERWISE DETECTED. 4. ALL DRIP, BUBBLER OR SPRAY ZONES.
- 5. ALL QUICK COUPLERS OR OTHER MISCELLANEOUS IRRIGATION APPURTENANCES. 6. SEE CIVIL ENGINEER'S DEMOLITION PLAN FOR RELATED PROTECTIONS NOTES.

		IRRIGATION LI	EGEND	
	SYMBOL	MODEL NUMBER	MNFR	DESCRIPTION & NOTES
	\boxtimes	POINT OF CONNECTION		AT POINT OF CONNECTION, STATIC WATER PRESSURE IS APPROXIMATELY 75 PSI; MAXIMUM FLOW IS 100 GPM
	1 L3.01 D	ESP-LXMEF-12 WITH ET MANAGER CARTRIDGE	RAINBIRD	ESP-LXME MODULAR EXPANDABLE IRRIGATION EXTERIOR METAL WALL MOUNT CONTROLLER. BASE MODULE 12 STATIONS WITH WEATHER-BASED ET MANAGER CARTRIDGE. COORDINATE INSTALLATION WITH RAINBIRD REPRESENTATIVE LUKE TIMMONS, (818)738-8280.
	(L3.01)	WR2-RFC	RAINBIRD	RAINBIRD WIRELESS RAIN SENSOR/FREEZE COMBO. INSTALL PER MANUFACTURER'S RECOMMENDATIONS AS REQUIRED. LOCATE SO THAT SENSOR RECEIVES UNOBSTRUCTED RAINFALL, CLEAR OF IRRIGATION AND OTHER ARTIFICIAL WATER SOURCES. TEST SIGNAL STRENGTH AND COMMUNICATION WITH CONTROLLER. RESOLVE SIGNAL STRENGTH AS REQUIRED FOR PROPER SENSOR FUNCTION.
	BFP	BACKFLOW PREVENTER		(E) REDUCED PRESSURE BACKFLOW PREVENTER, FIELD VERIFY
N FOR	5 L3.02	###-PESB-PRS-D SERIES RCV WITH PRS-D MODULE	RAINBIRD	REMOTE CONTROL VALVE ASSEMBLY W/ OPTIONAL PRESSURE REGULATING MODULE. SIZE PER PLAN. TUNE VALVE FOR FLOWS FROM 1-5 GPM. SIZE PER PLAN
NG PLA	2 L3.02 ►	LT-####-T LINE SIZE TYP (2" AND SMALLER)	KBI	LO-TORQUE™ SCH 80 PVC THREADED BALL VALVE SHUT-OFF OR ISOLATION VALVE, FOR LINES 2" AND SMALLER
SEE PLANTING PLAN FOR VALVE LOCATIONS TYP	3 L3.02 M	#F-619-RW-SON LINE SIZE TYP (2-1/2" AND LARGER)	NIBCO	FLANGED, NON-RISING STEM RESILIENT WEDGE IRON BODY GATE VALVE. SHUT-OFF ISOLATION VALVE, FOR LINES 2 1/2" AND LARGER
SEE	L3.02	44NP 2049 — PROVIDE (3) TOTAL SH-1 — PROVIDE (3) TOTAL 55K-1 — PROVIDE (3) TOTAL	RAINBIRD	2-PIECE, 1" SINGLE-LUG RECYCLED WATER QUICK COUPLER VALVE W/ LAVENDER LOCKING COVER KEY FOR LOCKING COVER 1" NPT x 1" MHT HOSE SWIVEL
BOX	1 L3.02 PB	CARSON #1419 CHRISTY #N-9 (PAVING)	OLD CASTLE	SINGLE LUG KEY, 1" TOP PIPE THREAD OUTLET W/INTERNAL 3/4" NPT THREAD PULL BOX
VALVE BOX LAYOUT	4 L3.01 MV	2000 SERIES	GRISWOLD	2" NORMALLY OPEN MASTER VALVE
6 L3.01	4 L3.01 FS	IR-220P	DATA INDUSTRIAL	1 1/2" FLOW SENSOR
	EML	MAINLINE		PROTECT (E) IRRIGATION MAINLINE
		PVC: CLASS 200 SCH 40 UNDER PAVING		NON-PRESSURE LATERAL IRRIGATION PIPE WITH SOLVENT WELD SCHEDULE 40 FITTINGS. 3/4" MIN. PIPE SIZE.
TRENCHING DETAIL		PVC: CLASS 315 SCHEDULE 40 CLASS 200		MAIN PRESSURE IRRIGATION PIPE, SEE SPECS SIZE MATERIAL 1"-1½" SCH 40 W/SOLVENT WELD SCH 40 FITTINGS 2"-3" CLASS 315 W SOLVENT WELD SCH 40 FITTINGS 4"- CLASS 200 RUBBER GASKETED (RING-TITE) PIPE W/ RUBBER GASKETED DEEP BELL FITTINGS
L3.01		PVC: CLASS 315		SLEEVE. SIZE AS REQUIRED
5 L3.01	——Е——	PVC: SCHEDULE 40 ELECTRICAL CONDUIT		ELECTRICAL CONDUIT. SIZE AS REQUIRED. INSTALL PARALLEL TO MAIN LINE UNDER ALL PAVING
(3)	—— FS——	FLOW SENSOR CABLE		ELECTRICAL CONDUIT. SIZE AS REQUIRED. INSTALL PARALLEL TO MAIN LINE UNDER ALL PAVING.
	³ " 1" ¹¹ " 12" ²	" 2½" ³ " ~		LATERAL SIZING

— STATION NUMBER

GALLONS PER MINUTE

— VALVE SIZE

REFERENCE ANNUAL ET ₀ FOR: (NEAREST CITY; WUCOLS IV)		SAN JOSE		45.3			
ET ADJUSTMENT FACTOR	.65	MWELO & 0.65= 0.55= F	FACTOR PER 2 CALGREEN: 3 SCHOOL RESIDENTIAL 1-RESIDENTIAL	WATER	ADDITIONAL ALLOWANCE 0-ETAF)		0.35
HYDROZONE	WUCOLS IV PLANT FACTOR (PF)	IRR METHOD	IRRIGATION EFFICIENCY (IE)	ETAF _Z (PF/IE)	LANDSCAPE AREA (SQ FT)	ETAF _Z X AREA	ESTIMATED TOTAL WATER USE (ETWU
D2	.3	S	.75	0.40	3282	1312.80	36871.30
D3	.3	S	.75	0.40	1821	728.40	20457.84
D4	.3	D	.81	0.37	2505	927.78	26057.57
D6	.3	D	.81	0.37	2190	811.11	22780.87
D7	.3	D	.81	0.37	900	333.33	9362.00
				TOTAL	10698.00	4113.42	115,529.58
SPECIAL LANDSCA	NPE AREAS						
D1	.9	S	.75	1	5140	5140.00	144,362.04
D5	.9	D	.81	1	1065	1065.00	29911.59
				TOTAL	6,205	6205.00	174,273.63
<u> </u>	TOTA	L LANDSCAPE	AREA (LA + SLA)	16,903.00		

3" 1" 14" 11" 2" 21" 3" 4" - MAINLINE SIZING

TOTAL ETWU	TOTAL ETWU ALL AREAS (SLA AND REGULAR LA)	TOTAL ETWU	289,803.21
MAWA	(ANNUAL ETO)(0.62 CONVERSION FACTOR) [(ET ADJUSTMENT FACTOR)(TOTAL LANDSCAPE AREA) + ((1-ETAF)*SLA))]	MAWA	369,575.25

AVERAGE ETAF	SUM(ETAF _Z X AREA) / TOTAL AREA (average etaf as designed, exclusive of sla _s)	0.38
SITEWIDE ETAF	TOTAL ETAF X AREA / TOTAL LANDSCAPE AREA (INCLUDES SLAS)	0.61



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Key Plan

FOOTHILL HIGH SCHOOL HOOPER HALL AND **QUAD MODERNIZATION**

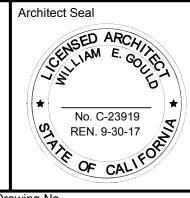
> 230 PALA AVENUE SAN JOSE, CA 95127

EAST SIDE UNION HIGH SCHOOL DISTRICT

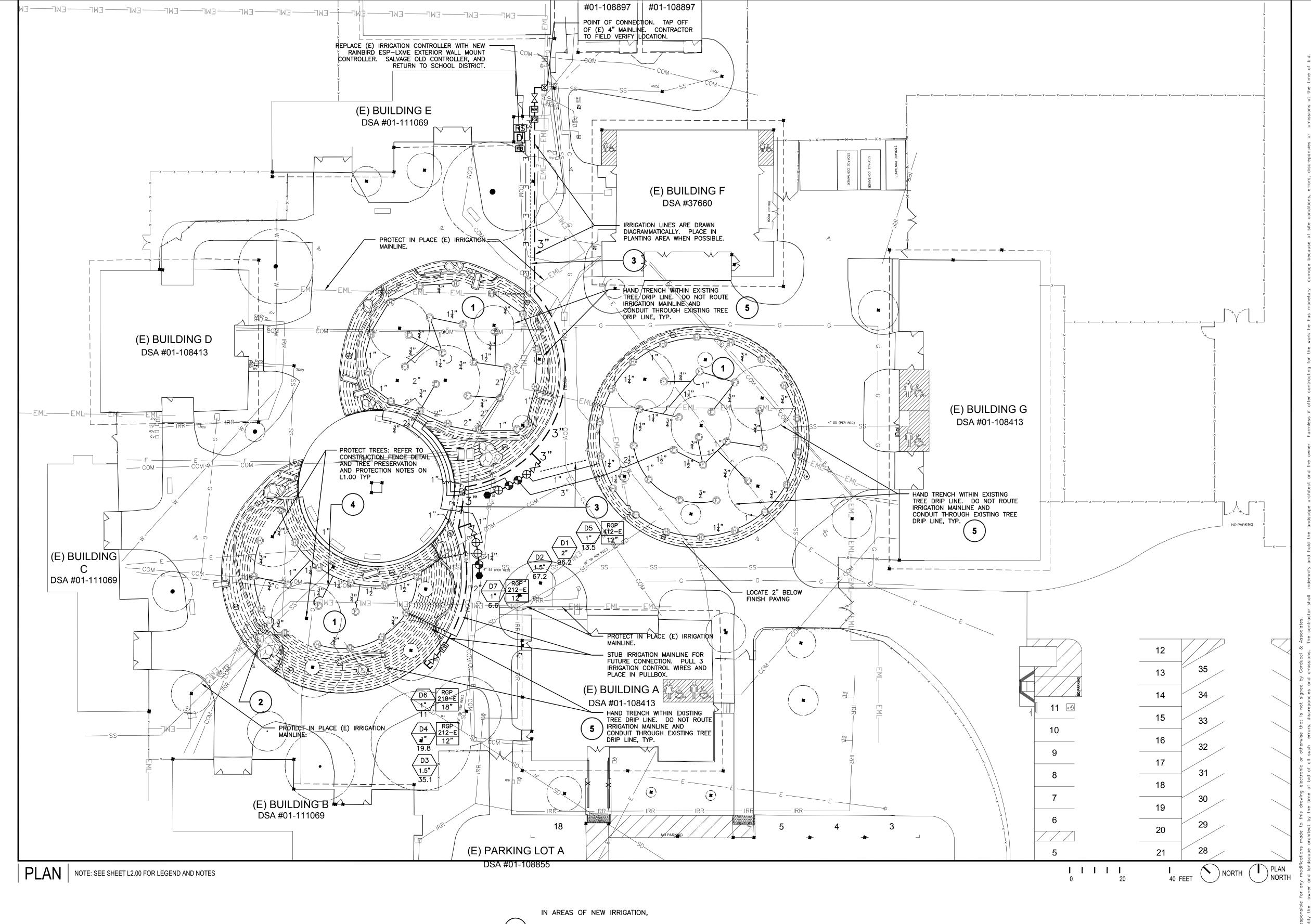
-	No	Revisions/Submissions	Date
	-	100% Schematic Design	06.22.16
	-	100% Design Development	07.14.16
	-	100% Construction Documents	08.05.16
_	-	DSA Approval	12.15.16

IRRIGATION LEGEND AND NOTES

IDENTIFICATION STAMP DIV. OF THE STATE ARCHITECT OFFICE OF REGULATION SERVICES



43-H10 DSA Application Number 01-116131 135145



- REMOVE (E) HEADS, CAP AND ABANDON (E) LATERAL LINES IN PLACE. CLEAN & RETURN (E) HEADS TO OWNER.
- REMOVE (E) RCV & BOXES, CAP MAINLINE, CLEAN AND RETURN TO OWNER.
- SAWCUT (E) PAVING AND RESTORE (E) PAVING TO IN KIND CONDITION WHERE REQUIRED TO INSTALL NEW IRRIGATION EQUIPMENT UNDER PAVING.
- LATERAL PIPING NEAR (E) TREES AS SHOWN IN LOCATION TO MINIMIZE TREE ROOT DAMAGE.
- HAND TRENCHING FOR LATERALS REQUIRED AT (E) TREE ROOTS MAY BE 12" DEEP IN LIEU OF 18" DEEP.

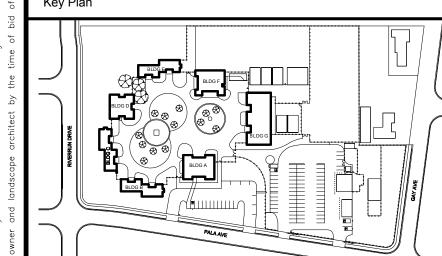


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FOOTHILL HIGH SCHOOL HOOPER HALL AND QUAD MODERNIZATION

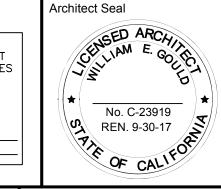
230 PALA AVENUE SAN JOSE, CA 95127

EAST SIDE UNION HIGH SCHOOL DISTRICT

No	Revisions/Submissions	Date
-	100% Schematic Design	06.22.16
-	100% Design Development	07.14.16
-	100% Construction Documents	08.05.16
-	DSA Approval	12.15.16

IRRIGATION PLAN

Regulatory Agency Approval IDENTIFICATION STAMP
DIV. OF THE STATE ARCHITECT
OFFICE OF REGULATION SERVICES

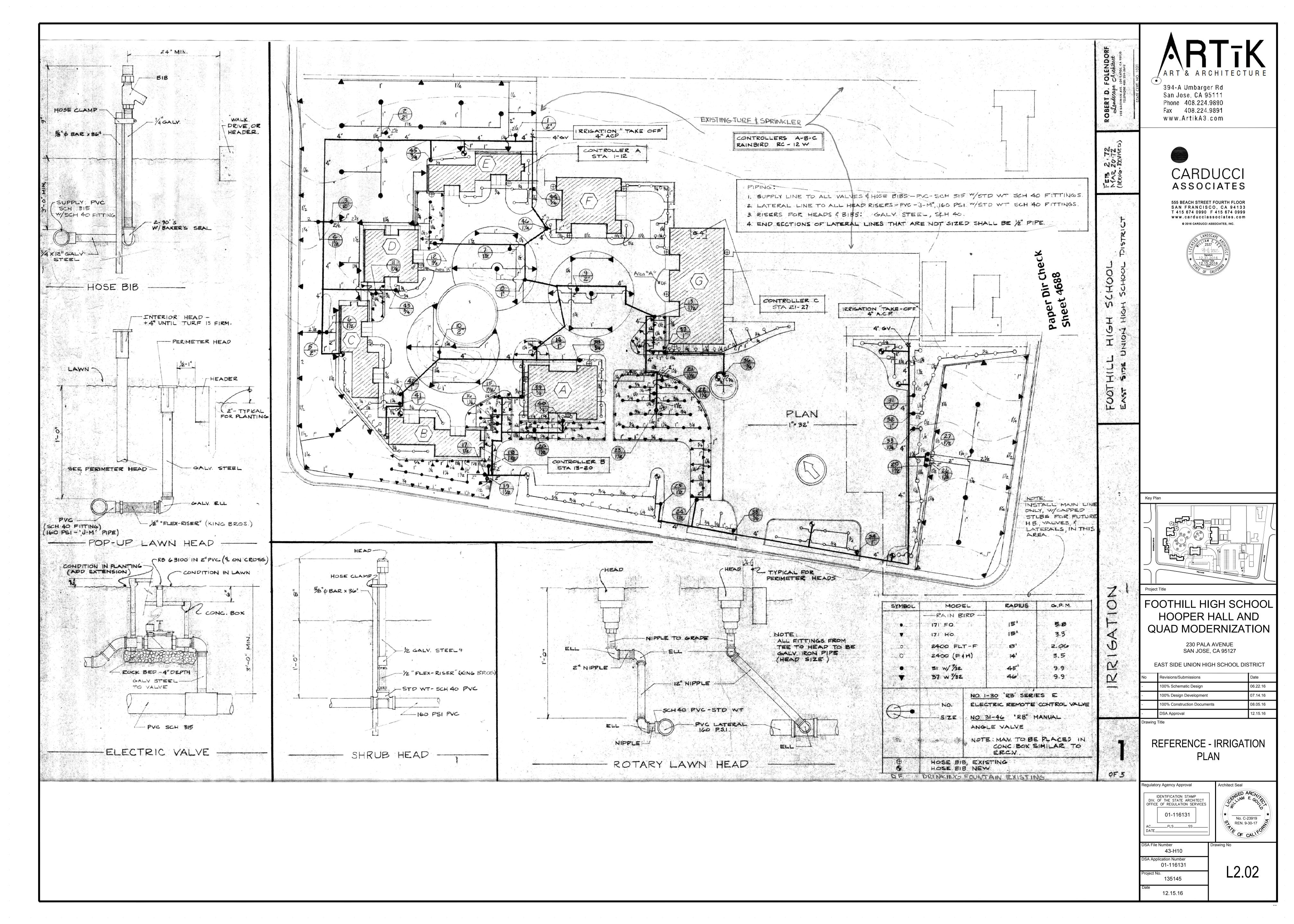


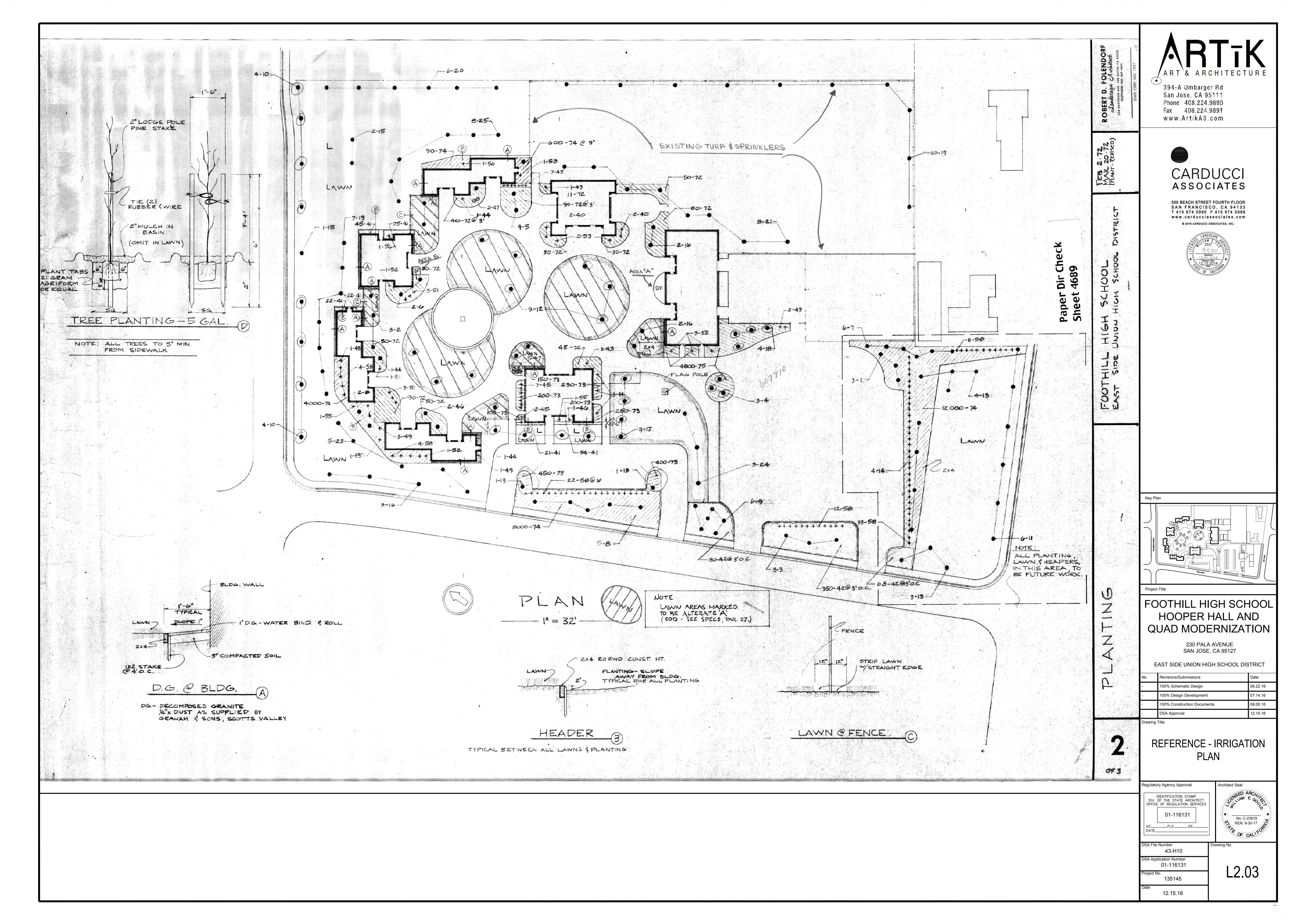
43-H10 DSA Application Number 01-116131

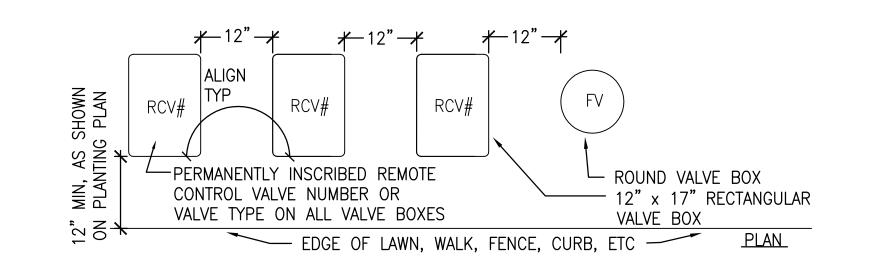
135145

12.15.16

Know what's **below.**Call 811 before you dig.



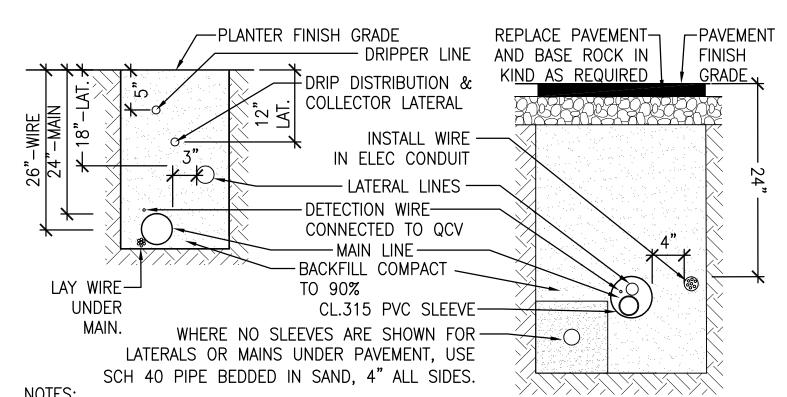




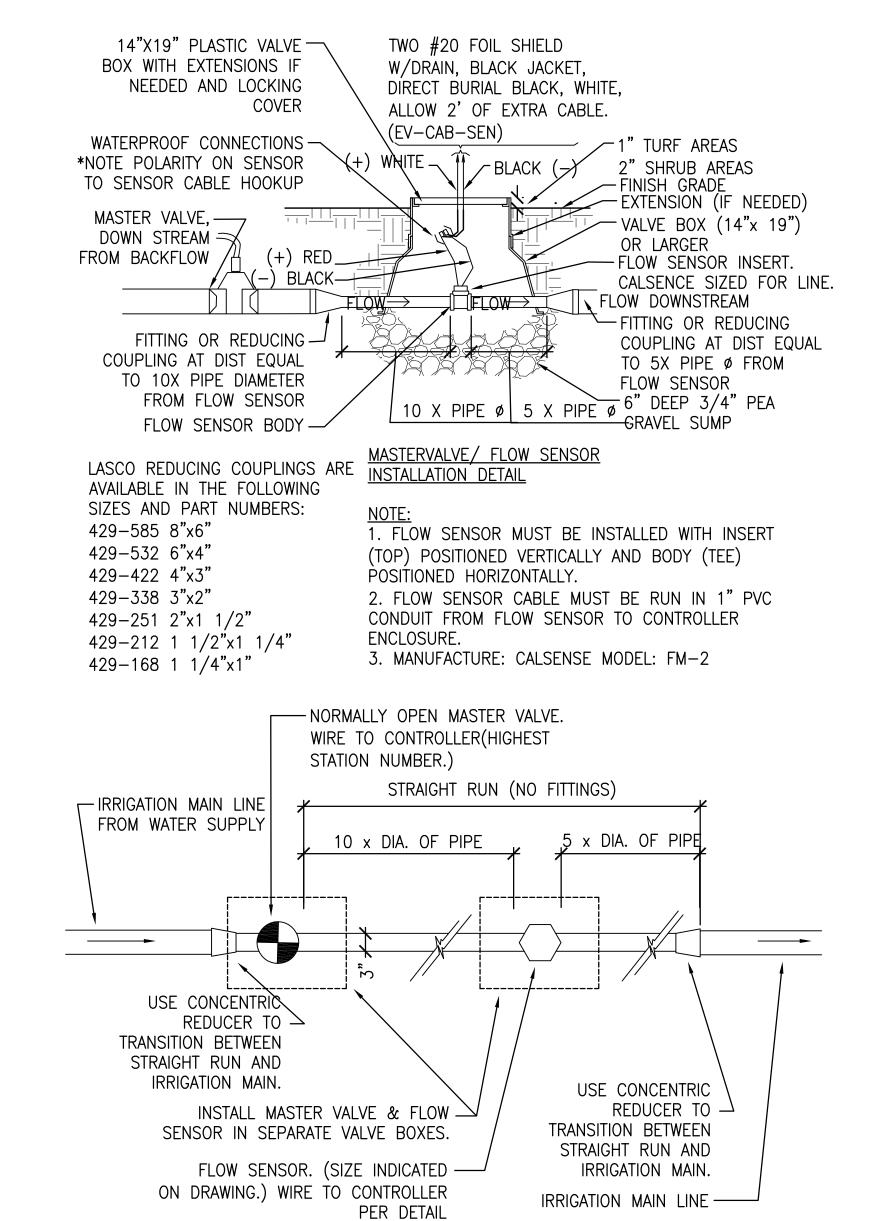
- CENTER VALVE BOX OVER REMOTE CONTROL VALVE TO FACILITATE SERVICING VALVE.
 SET BOXES 2" ABOVE FINISH GRADE OF MULCH COVER IN GROUND COVER/SHRUB AREA AND FLUSH WITH FINISH GRADE IN TURF AREA.
- 3. SET RCV AND VALVE BOX ASSEMBLY IN GROUND COVER/SHRUB AREA WHERE POSSIBLE. INSTALL IN LAWN ONLY IF GROUND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

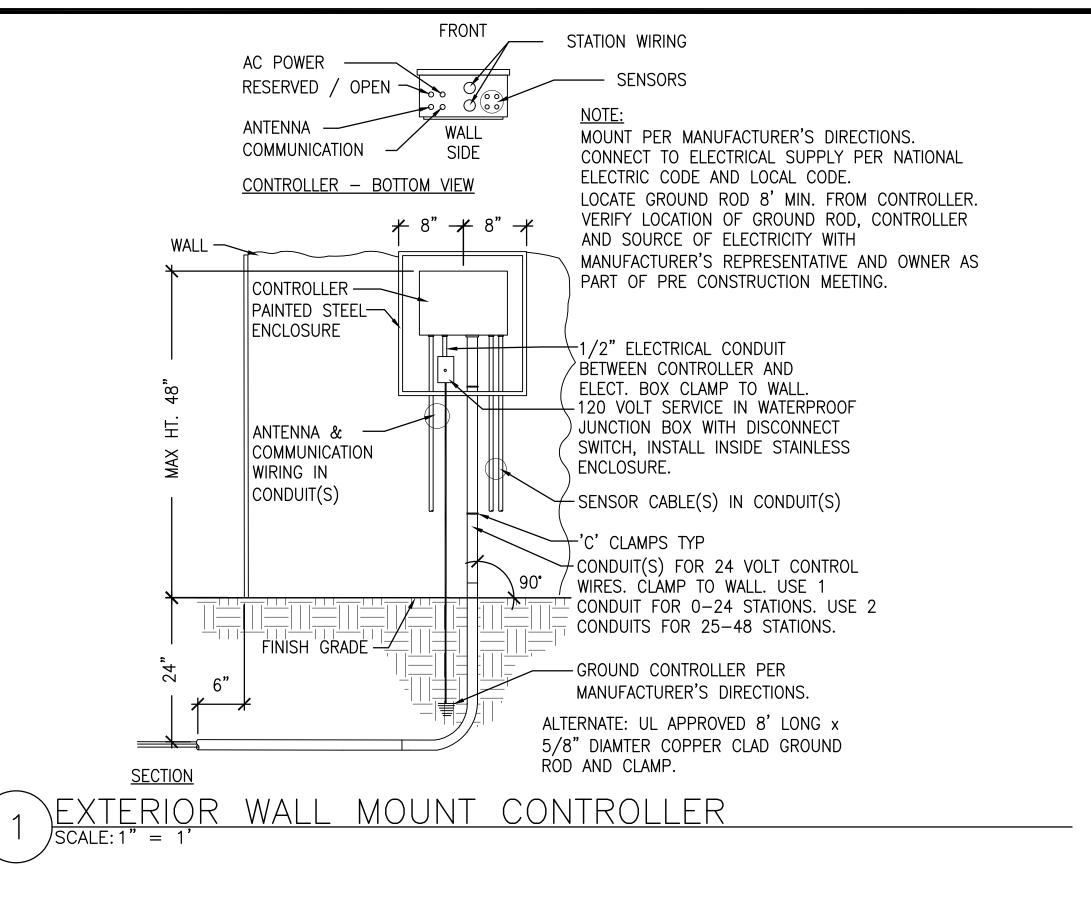
 7. SEE PLANTING PLAN FOR VALVE BOX LOCATIONS. COORDINATE WITH PLANTING TYP.

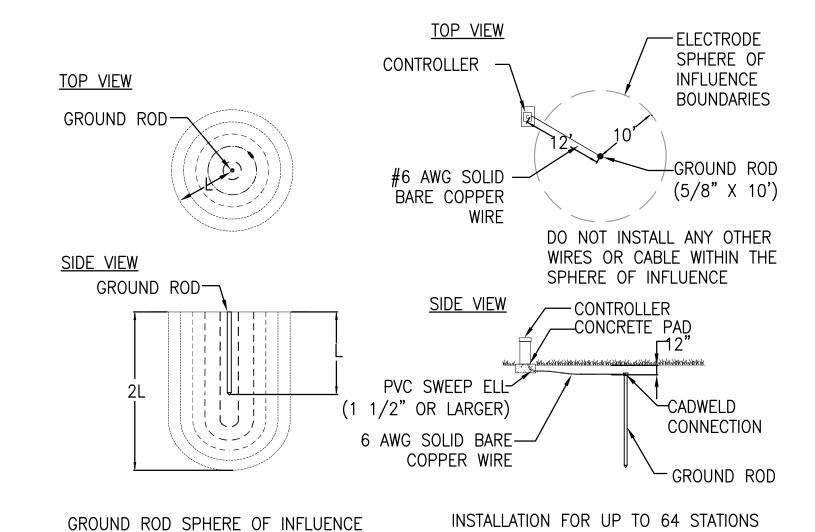
6 VALVE BOX LAYOUT



- 1. TIE A LOOSE 20" LOOP IN WIRE AT CHANGES IN DIRECTION AND AT INTERVALS OF 100'.
 2. INSTALL PIPE, WIRE AND SLEEVES UNDER PAVEMENT PRIOR TO PLACEMENT OF PAVEMENT AND MINIMUM OF 24" DEEP.
- 3. BUNDLE AND TAPE WIRE AT 10' INTERVALS.
- 4. SOIL BACKFILL TO BE FREE OF ROCK, DIRT CLODS, AND DEBRIS GREATER THAN 1/2". 5. DIAMETER WITHIN 4" OF PIPE.
- 6. ALTERNATE: BACKFILL WITH SAND IMPORT.

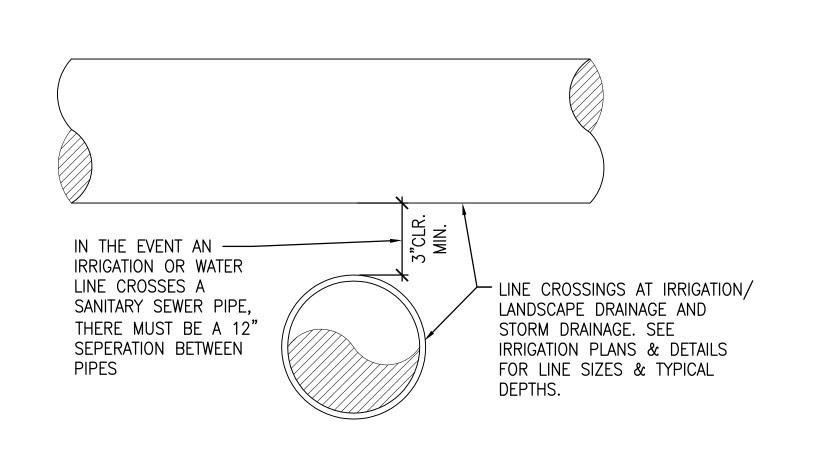


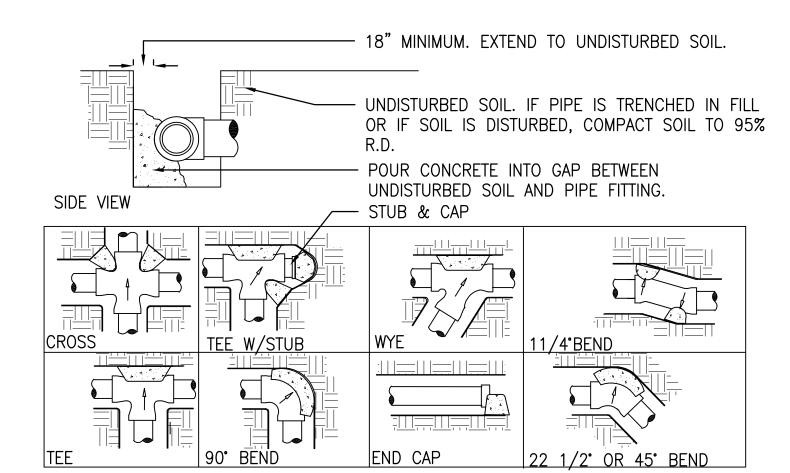




GROUNDING ROD SCALE: 3" = 1'

7 TRENCH SCALE: 1" = 1' 4 MASTER VALVE AND FLOW SENSOR SCALE: 3/4" = 1'





NOTE:

1. CONCRETE SHALL BE MIXED AND POURED IN ACCORDANCE WITH PIPE MANUFACTURER'S RECOMMENDED STANDS AND SPECIFICATIONS FOR THRUST BLOCKS.

2. KEEP CONCRETE FROM POURING OVER FITTINGS ON TO PIPE.

3 THRUST BLOCK



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Key Plan

| BLDGF | BLDGF | BLDGG | BL

FOOTHILL HIGH SCHOOL HOOPER HALL AND QUAD MODERNIZATION

> 230 PALA AVENUE SAN JOSE, CA 95127

EAST SIDE UNION HIGH SCHOOL DISTRICT

	No	Revisions/Submissions	Date		
	-	100% Schematic Design	06.22.16		
	-	100% Design Development	07.14.16		
	-	100% Construction Documents	08.05.16		
	-	DSA Approval	12.15.16		

Drawing Title

IRRIGATION DETAILS

Regulatory Agency Approval						
DIV.	IDENTIFICATION STAMP DIV. OF THE STATE ARCHITECT OFFICE OF REGULATION SERVICES					
	01-116	131				
AC DATE_	FLS	SS				

No. C-23919
REN. 9-30-17

rchitect Seal

DSA File Number
43-H10

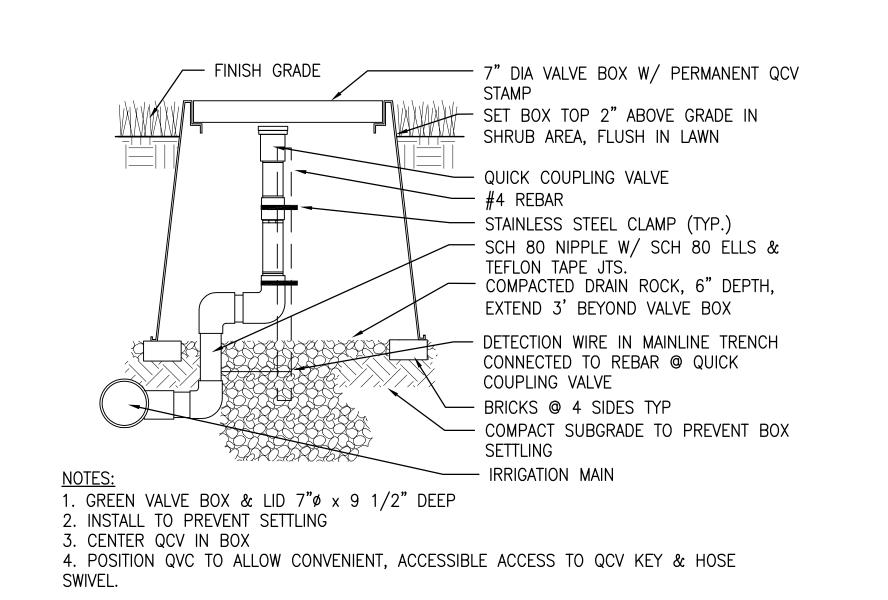
DSA Application Number
01-116131

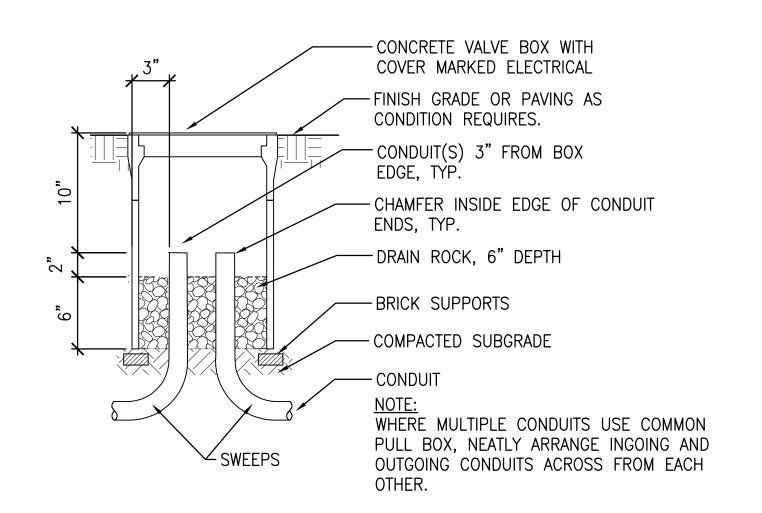
12.15.16

L3.01

5 TYPICAL UTILITY CROSSING

SCALE: 3" = 1'

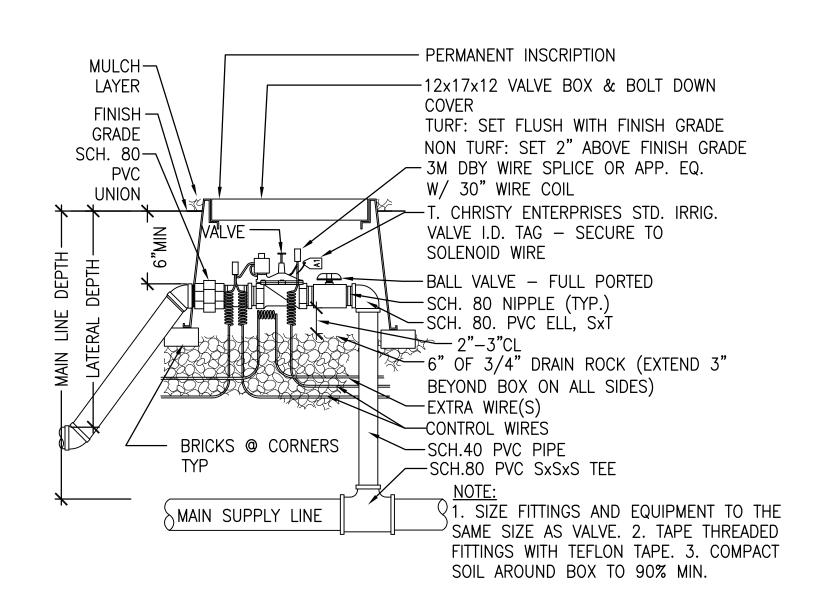


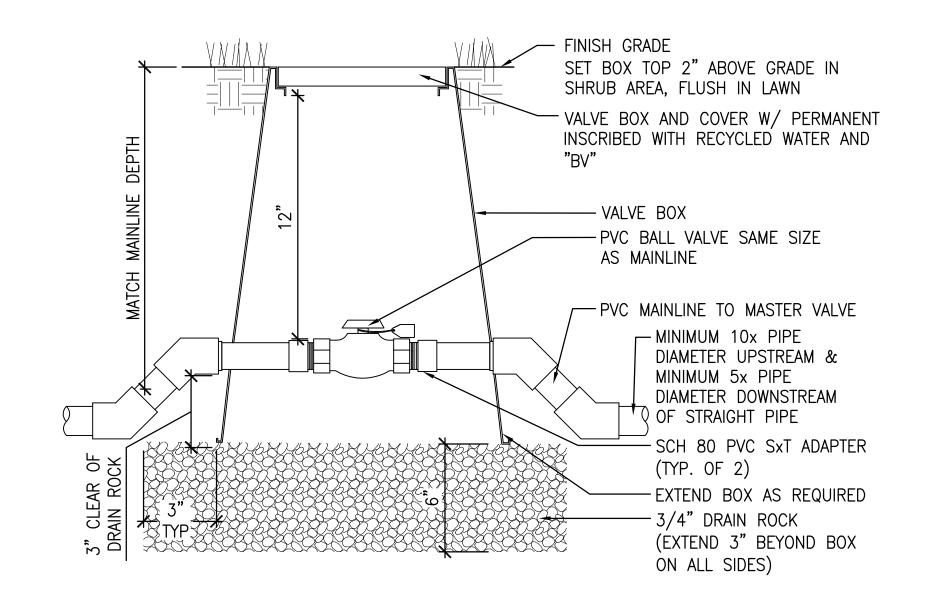


4 QUICK COUPLER VALVE

SCALE: 3" = 1'



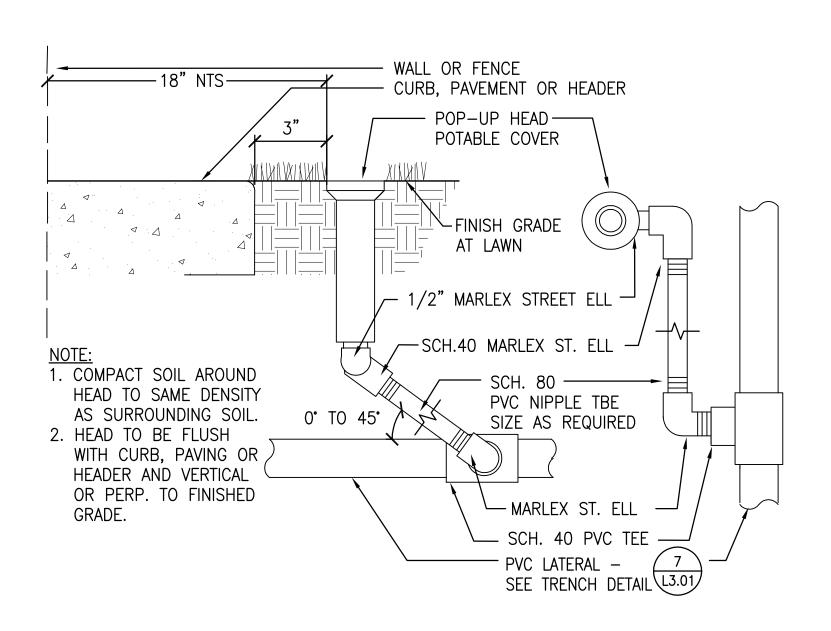


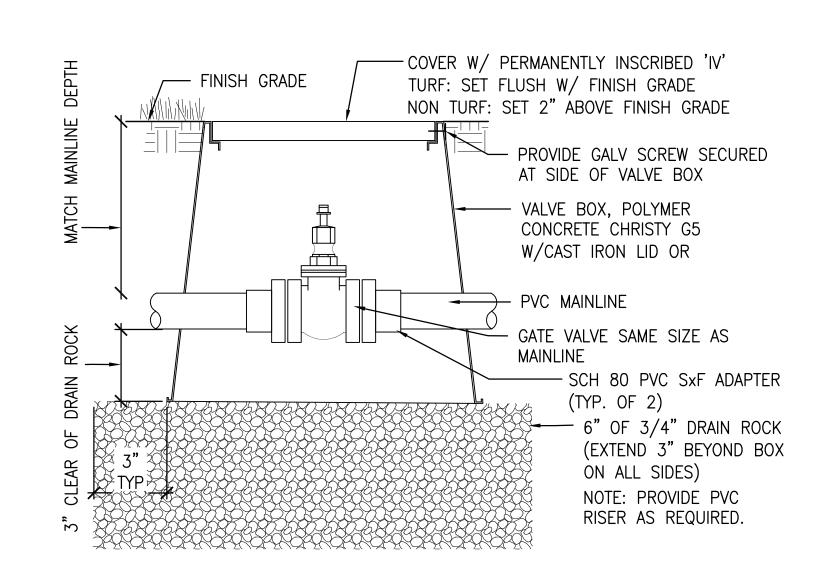


5 REMOTE CONTROL VALVE

SCALE: 1 1/2" = 1'

2 ISOLATION VALVE 2 INCH & SMALLER SCALE: 3" = 1'





6 POP-UP LAWN SPRAY

3 ISOLATION VALVE — 2.5 IN OR LARGER SCALE: 3" = 1'

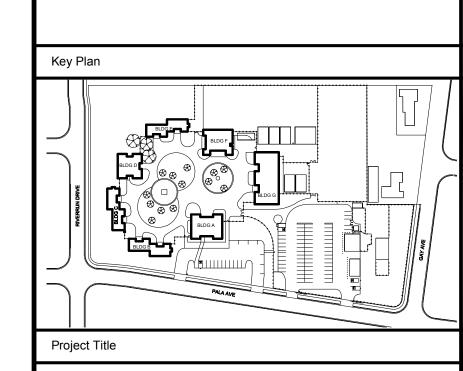


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FOOTHILL HIGH SCHOOL HOOPER HALL AND QUAD MODERNIZATION

230 PALA AVENUE SAN JOSE, CA 95127

EAST SIDE UNION HIGH SCHOOL DISTRICT

	No	Revisions/Submissions	Date
	-	100% Schematic Design	06.22.16
	-	100% Design Development	07.14.16
	-	100% Construction Documents	08.05.16
	-	DSA Approval	12.15.16

Drawing Title

IRRIGATION DETAILS

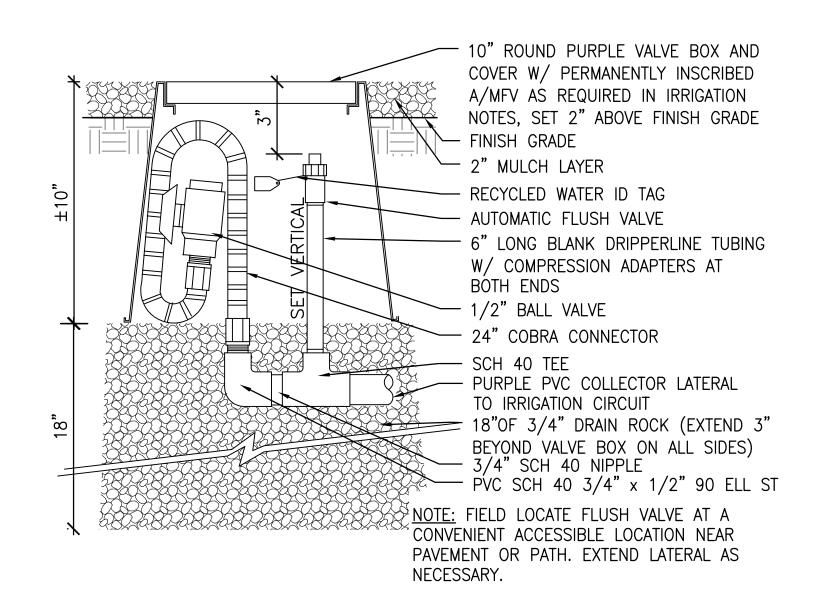
Regulato	ry Agency Ap	Architect Seal		
DIV.	DENTIFICATION OF THE STATE OF REGULATION O1-116	E ARCHITION SER	TECT	No. C-23919 REN. 9-30-17

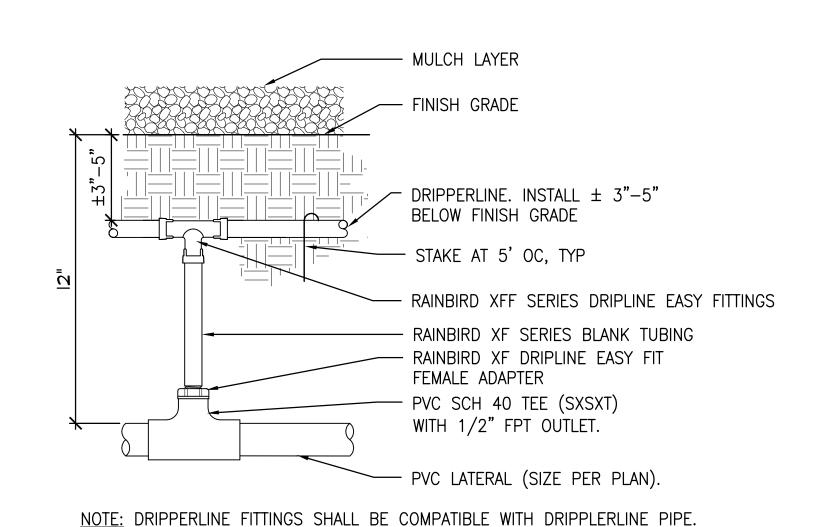
OSA File Number	
43-H10	
OSA Application Number	
01-116131	

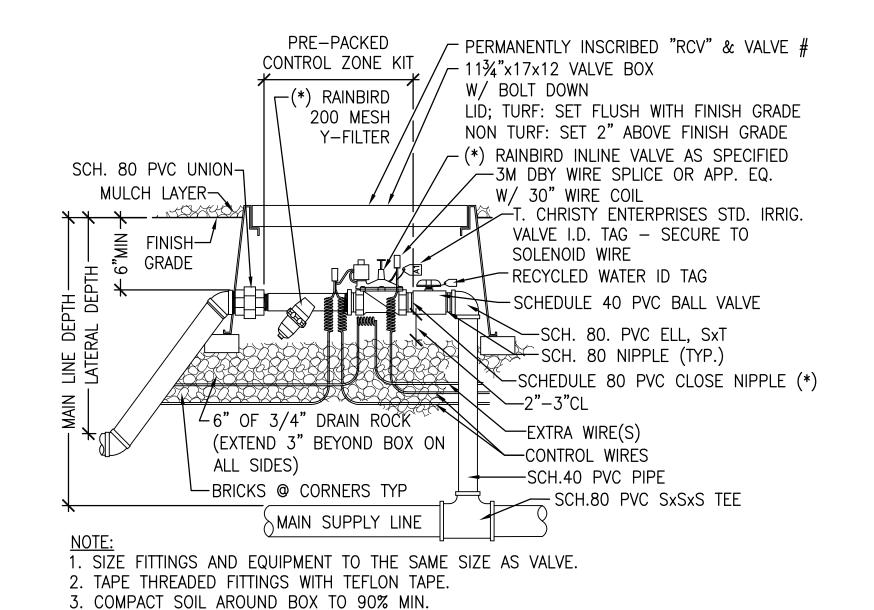
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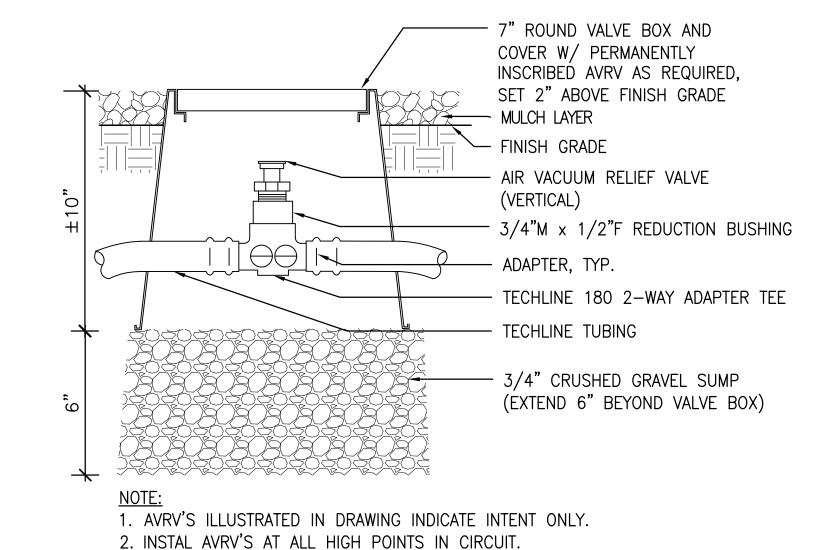


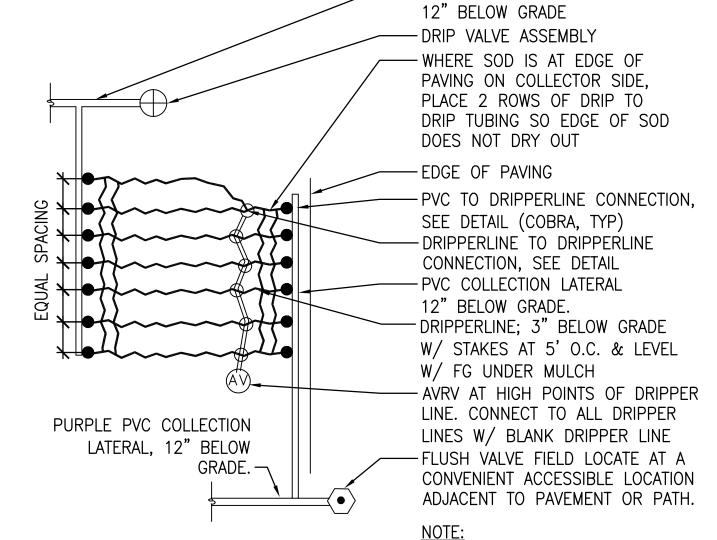
4. MIN. FLOW RATE - 2.0 GPM, MAX. FLOW RATE - 20.0 GPM

5. (*) PARTS IN CONTROL ZONE KIT

1 DRIP ZONE KIT SCALE: 1 1/2" = 1'

7 AUTO — MANUAL FLUSH VALVE SCALE: 3" = 1' 4 PVC TO DRIF





NOTE:

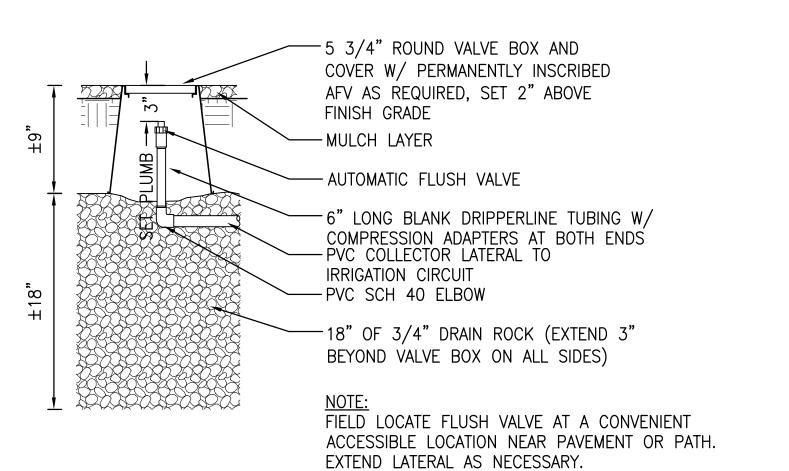
1. DRIPPERLINE FITTINGS SHALL BE
COMPATIBLE WITH DRIPPERLINE

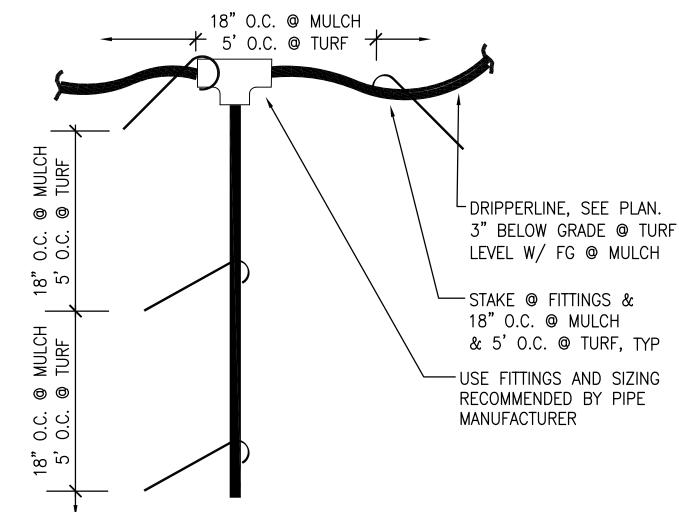
2. HOLD DRIPPERLINES 18" OFF FACE OF
BUILDING, 6" OFF PAVING @ SHRUBS,
2" OFF PAVING @ SOD, TURF &
GROUNDCOVER, TYP

- WHITE PVC DISTRIBUTION LATERAL,

5 AIR VACUUM RELIEF VALVE

5 SCALE: 3" = 1'





18" 0.0 & 5' 0 USE FIT RECOMM MANUFAR

6 AUTO FLUSH VALVE

SCALE: 1 1/2" = 1'

3 DRIP TO DRIP
SCALE: 3/8" = 1'

DRIP LAYOUT
SCALE: 3/4" = 1'

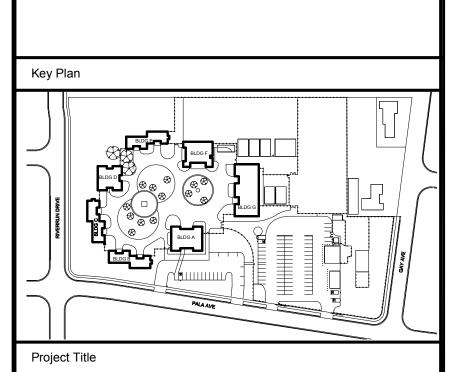
ART & ARCHITECTURE

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EAST SIDE UNION HIGH SCHOOL DISTRICT

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	-	100% Construction Documents	08.05.16
	-	DSA Approval	12.15.16

Drawing Title

IRRIGATION DETAILS

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DIV.	DENTIFICATION STAMP OF THE STATE ARCHIT OF REGULATION SER'	 CENSED A
	01-116131	No. C-2 No. C-2 REN. 9-3
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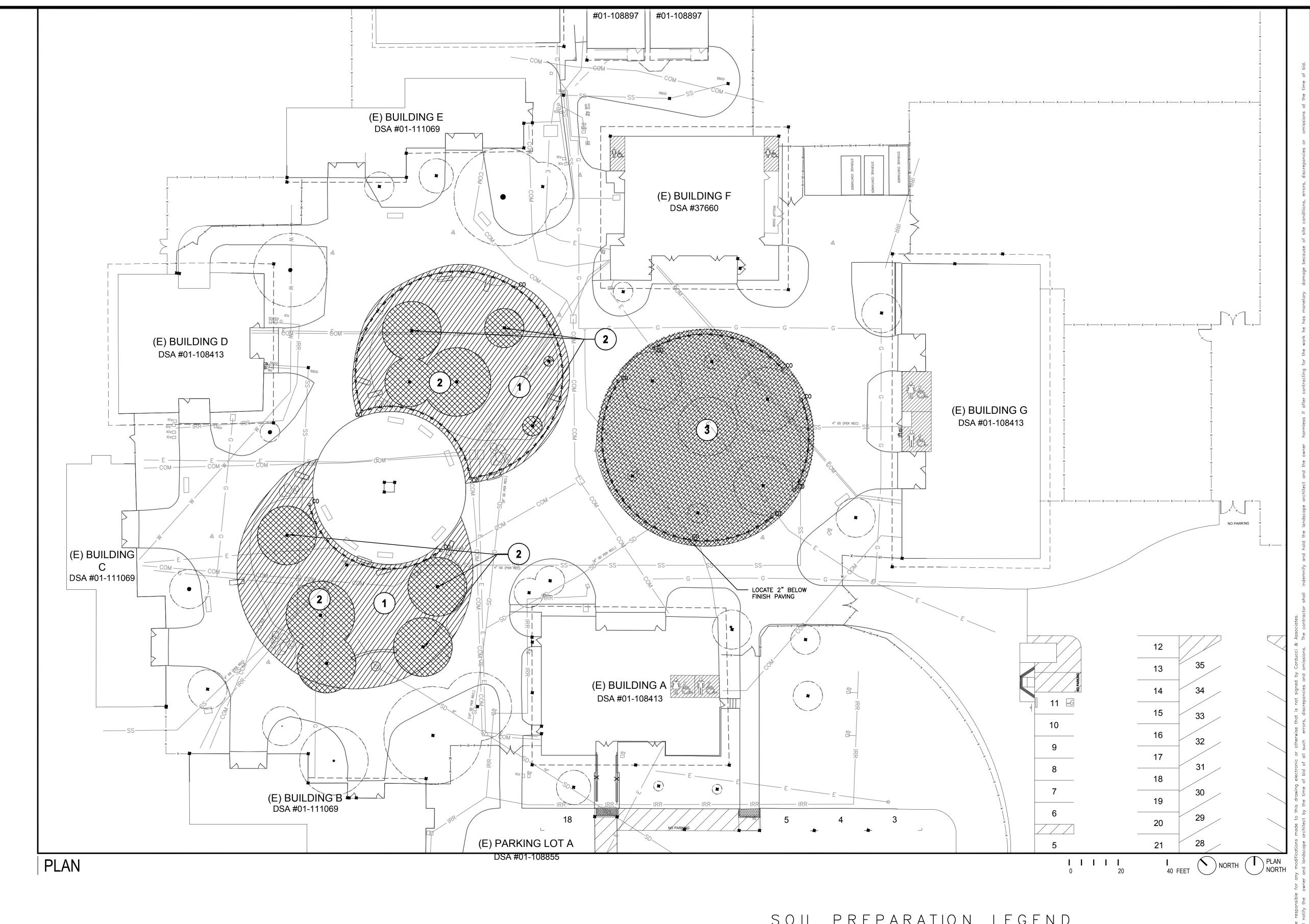
DSA File Number
43-H10

DSA Application Number
01-116131

135145

12.15.16

L3.03



SOIL PREPARATION LEGEND <u>DESCRIPTION</u>

SYMBOL

AMEND ON-SITE TOP SOIL (6" DEEP)

PROTECT (E) SOIL & TREE ROOTS. SCARIFY, ADD COMPOST AND FINE GRADE FOR NEW PLANTING. PROTECT (E) SOIL & (E) LAWN. SEE PLANTING PLAN FOR RENOVATION.

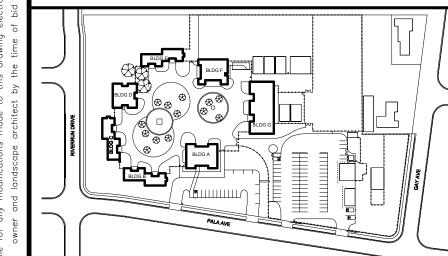


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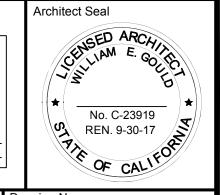
230 PALA AVENUE SAN JOSE, CA 95127

EAST SIDE UNION HIGH SCHOOL DISTRICT

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prevent or delay the	-	100% Schematic Design	06.22.16
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	-	100% Construction Documents	08.05.16
	-	DSA Approval	12.15.16
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SOIL PREPARATION LEGEND AND PLAN

IDENTIFICATION STAMP
DIV. OF THE STATE ARCHITECT
OFFICE OF REGULATION SERVICES

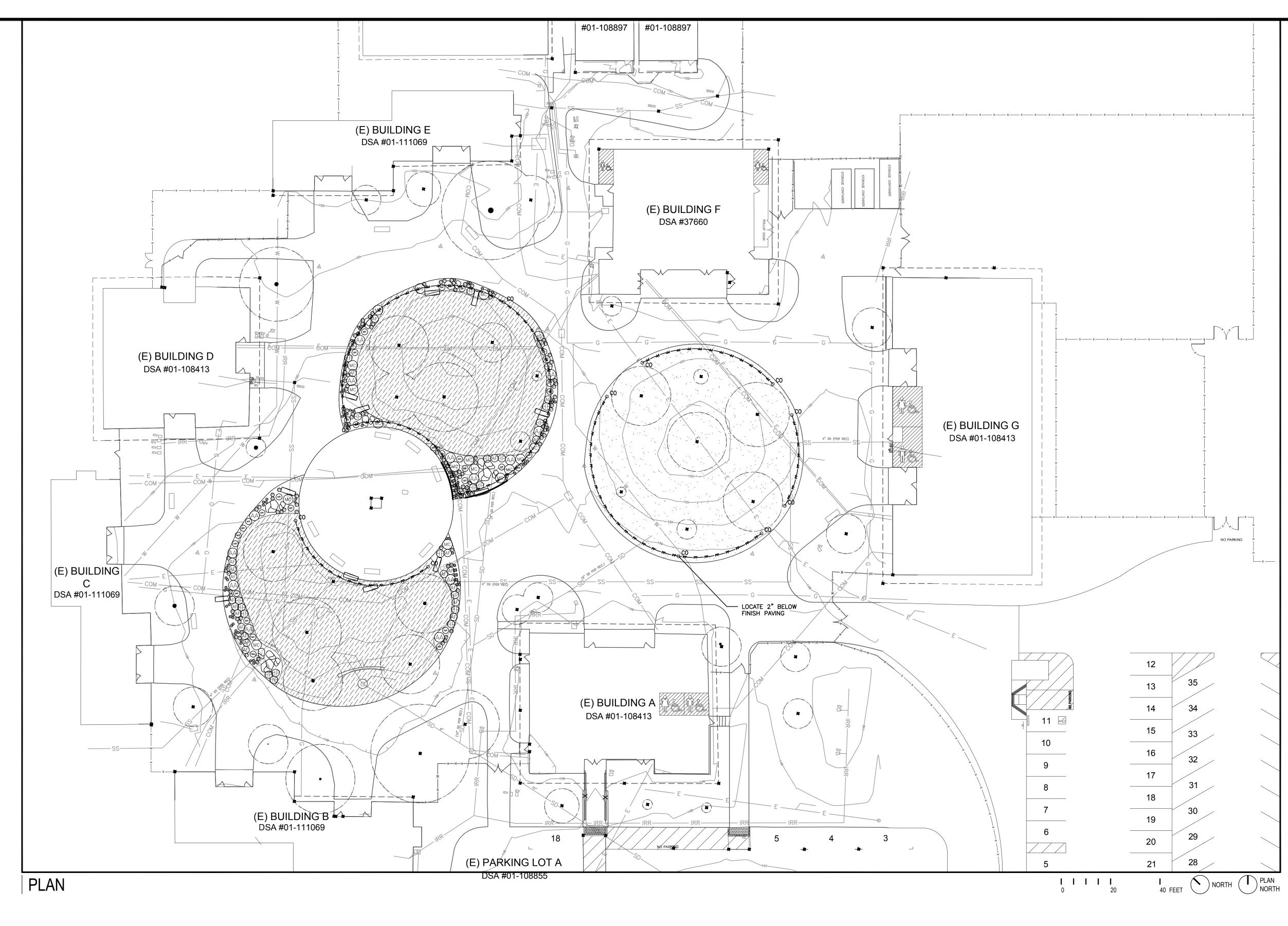


43-H10 DSA Application Number

12.15.16

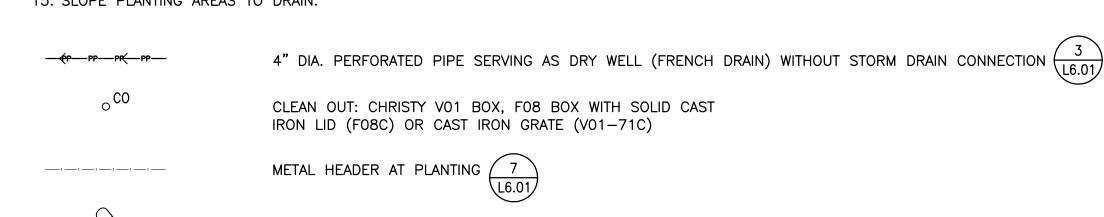
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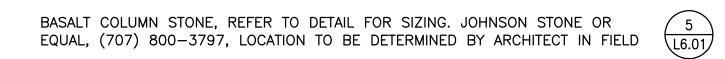


<u>PLANTING NOTES</u>

- 1. PLANT MATERIAL QUANTITIES ARE SHOWN FOR INFORMATION ONLY. CONTRACTOR SHALL VERIFY ALL QUANTITIES PRIOR TO ORDER.
- 2. SUBSTITUTIONS OF PLANT MATERIAL, SPECIES AND/OR VARIETIES ARE NOT PERMITTED.
- 3. SUBMIT PLANT LIST SHOWING QUANTITIES AND AVAILABILITY OF PLANT MATERIAL WITHIN 30 DAYS OF NOTICE TO PROCEED.
- 4. ALL PLANT MATERIAL SHALL CONFORM TO THE ANSI Z601 "STANDARD FOR NURSERY STOCK".
- 5. AMEND SOILS PER SOIL TEST RECOMMENDATIONS, SEE SPECIFICATIONS.
- 6. APPLY A THREE INCH (3") LAYER OF MULCH IN ALL NON-TURF AND NON-GRASS/PLUG AREAS AND TREE/SHRUB BASINS. KEEP BARK SIX INCHES (6") AWAY FROM TREE CROWNS.
- 7. PLACE PLANTS IN PROPOSED LOCATIONS FOR REVIEW AND ACCEPTANCE BY THE PROJECT MANAGER PRIOR TO ACTUAL PLANTING. NOTIFY THE PROJECT MANAGER A MINIMUM OF 48 HOURS PRIOR.
- 8. ALL LANDSCAPED AREAS SHALL BE MAINTAINED IN A HEALTHY AND WEED-FREE CONDITION. DEAD PLANT MATERIAL SHALL BE REPLACED IMMEDIATELY. ALL TREES SHALL BE MAINTAINED AND PRUNED IN ACCORDANCE TO THE INTERNATIONAL SOCIETY OF ARBORICULTURE (ISA).
- 9. INSTALL PLANT MATERIAL PER SPECIFICATIONS.
- 10. NOTIFY PROJECT MANGER 48 HOURS PRIOR TO PLANT DELIVERY. ALL PLANTS TO BE REVIEWED AND ACCEPTED PRIOR TO PLANTING.
- 11. ALL PLANTS LISTED ABOVE TO BE INSTALLED BY CONTRACTOR.
- 12. POT HOLE ALL TREE PLANTING LOCATIONS TO IDENTIFY CONFLICTS UNDERGROUND UTILITIES BEFORE TREE PLANTING.
- 13. WHERE POSSIBLE LOCATE TREES AT LEAST 5' FROM EDGE OF WALKS, PAVING, AND UNDERGROUND UTILITIES. ADJUST LOCATION IN FIELD AS REQUIRED AND AS APPROVED BY LANDSCAPE ARCHITECT.
- 14. SEE LANDSCAPE DRAWINGS FOR APPROXIMATE LOCATION OF UTILITIES.
- 15. SLOPE PLANTING AREAS TO DRAIN.



BOULDER, SONOMA FILED STONE, VARIES SIZE 24" TO 36"Ø. AVAILABLE FROM LYNGSO GARDEN 650-364-1730 OR AMERICAN SOIL PRODUCT 510-292-3000, LOCATION TO BE DETERMINED BY ARCHITECT IN FIELD



<u>PLANTING LEGEND</u>

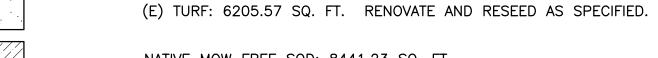
<u>SYMBOL</u> <u>DESCRIPTION</u>

IRRIGATION REMOTE CONTROL VALVES & QUICK COUPLER VALVES, TYP.

UTILITY, SIZE AND INVERT MAY VARY, SEE TOPO SURVEY AND FIELD VARIFY TO AVOID ANY CONFLICT, SEE NOTE 12 AND 14

SHRUBS AND GROUND COVER

	Count	KEY	BOTANICAL NAME	COMMON NAME	ORIGIN	SIZE	SPACING	WATER USE (WUCOLS 1)	NOTES
	13	AA	AGAVE ATTENUATA	AGAVE	MEXICO	5 GAL	4' OC	L	
(AF)	25	AF	ANIGOZANTHOS FLAVIDUS	KANGAROO PAW	AUSTRALIA	5 GAL	3' OC	L	
\oplus	93	HP	ECHEVERIA 'AFTERGLOW'		HYBRID	1 GAL	1'-0"	L	
Θ	20	HP	HESPERALOE PARVIFLORA	RED YUCCA	TEXAS AND NEW MEXICO	15 GAL	3' OC	L	YELLOW FLOWERED FORM
MC	17	МС	MUHLENBERGIA CAPILLARIS	PINK MUHLY	EASTERN US	5 GAL	4' OC	L	CUT BACK FINISHED FOILAGE IN LATE WINTER, BEFORE NEW GROWTH EMERGES
MR	29	MR	MUHLENBERGIA RIGENS	DEER GRASS	CA, TX, MEXICO	5 GAL	2'-6" OC	L	CUT BACK ONCE A YEAR BEFORE THE NEW GROWTH STARTS
€	112	Р	JUNCUS PATENS 'ELK BLUE'	CALIFORNIA GRAY RUSH	CA, OR	5 GAL	1'-6" OC	L	



NATIVE MOW FREE SOD: 8441.23 SQ. FT.

LANDSCAPE DESIGN PLAN.

Know what's below.

Call 811 before you of <u>TITLE 23 MODEL WATER EFFICIENT LANDSCAPE ORDINANCE COMPLIANCE:</u>
I HAVE COMPLIED WITH THE CRITERIA OF THE ORDINANCE AND APPLIED THEM ACCORDINGLY FOR THE EFFICIENT USE OF WATER IN THE

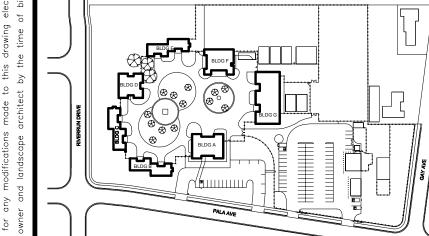


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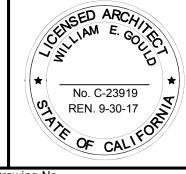
EAST SIDE UNION HIGH SCHOOL DISTRICT

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	comple	No	Revisions/Submissions	Date	
electronic the com		-	100% Schematic Design	06.22.16	
product,	delay	-	100% Design Development	07.14.16	
		-	100% Construction Documents	08.05.16	
nal work prevent	prev	-	DSA Approval	12.15.16	

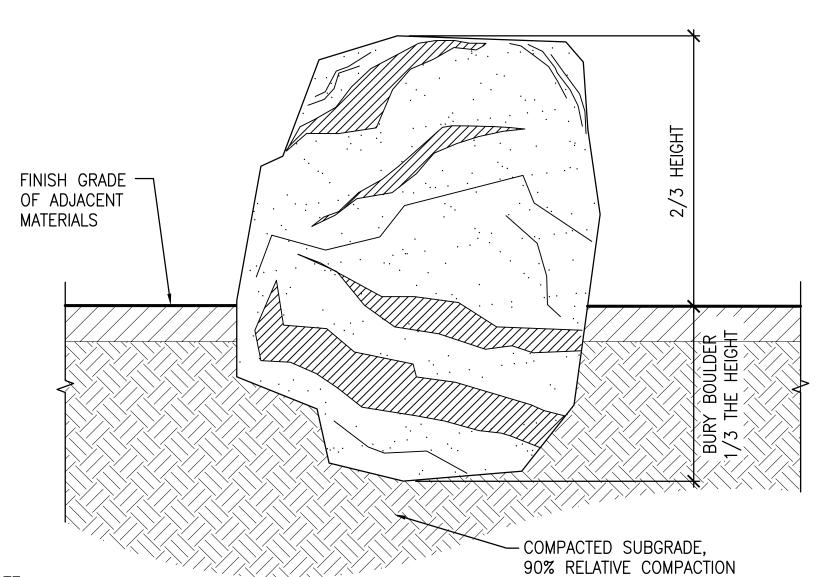
PLANTING LEGEND AND PLAN

Regulatory Agency Approval IDENTIFICATION STAMP DIV. OF THE STATE ARCHITECT OFFICE OF REGULATION SERVICES 01-116131 DATE_

12.15.16

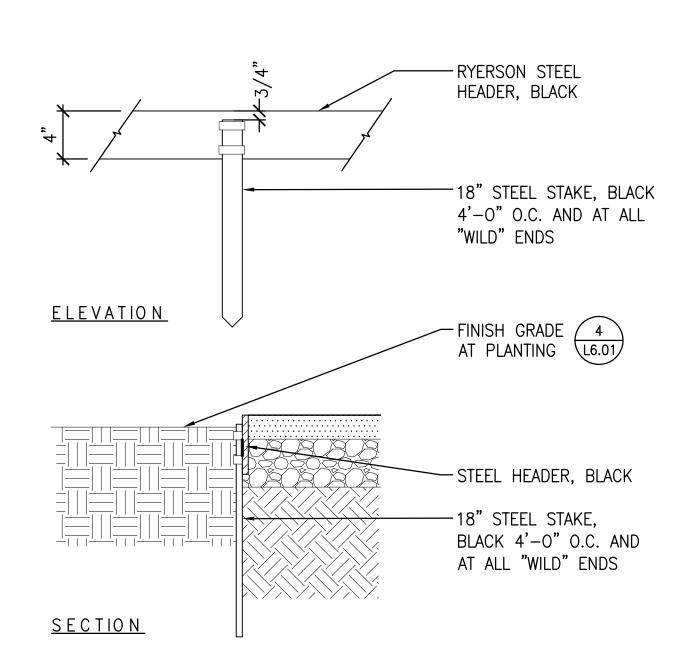


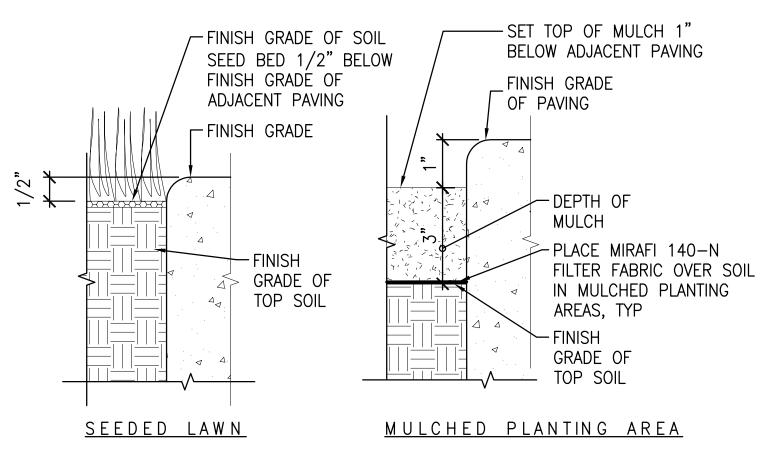
43-H10 DSA Application Number 01-116131 135145



1. SEE MATERIAL PLAN FOR BOULDER LOCATIONS, COORDINATE FINAL LOCATION WITH LANDSCAPE ARCHITECT. 2. BOULDER, VERIES SIZE, SONOMA FIELD STONE, 18"-36" × 24"-48" LONG, AVAILABLE FROM LYNGSO GARDEN 650-364-1730 OR AMERICAN SOIL & STONE 510-292-3000.







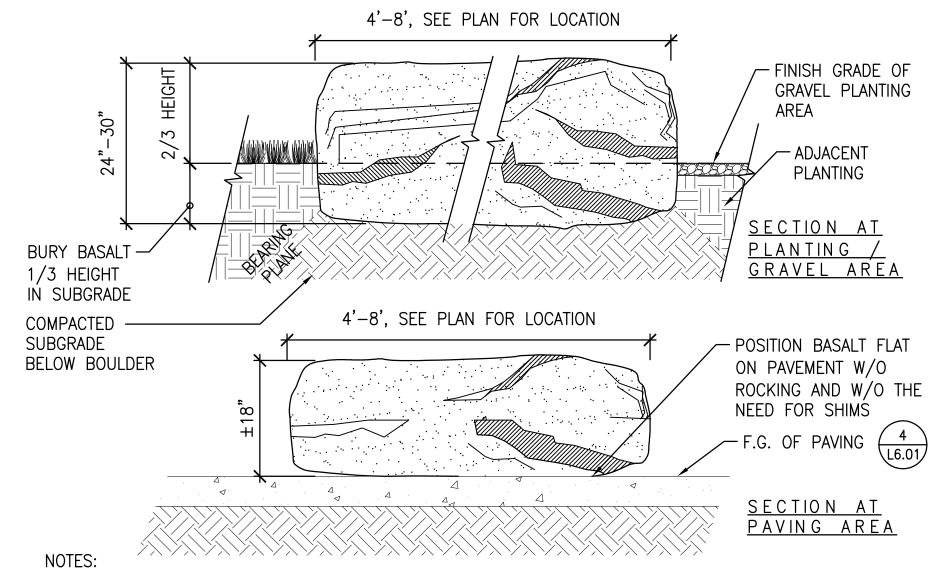
NOTES:

- 1. FINISH ELEVATION IS MEASURED AFTER SOIL PREPARATION AND FIRMING OF
- SOIL BY WETTING FROM IRRIGATION SYSTEM TO MINIMIZE FUTURE SETTLING. 2. IN MULCHED AREAS WHERE SOIL IS LOW RELATIVE TO EDGE OF PAVING BY NECESSITY OF GRADING, PROVIDE ADDITIONAL MULCH TO MINIMIZE DROP-OFF CONDITION WITHIN 24" OF EDGE OF PAVING.

GRADE AT EDGE OF PAVING

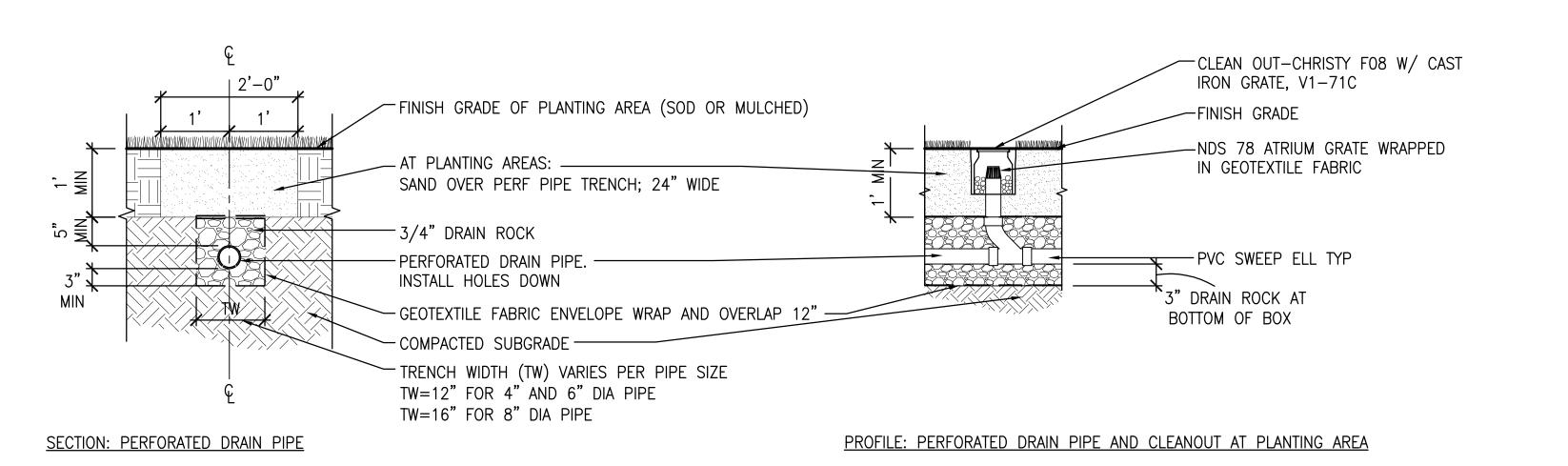
SCALE: 6" = 1'





1. AVAILABLE AT JOHNSON ORNAMENTAL STONE, SANTA ROSA (707) 584-7480, AMERICAN SOIL & STONE, (510) 292-3000, OR EQ. 2. COLOR TO VARY, INCLUDE RUST, BEIGE, AND GRAY. SUBMIT PHOTOS FOR ACCEPTANCE PRIOR TO PURCHASE.

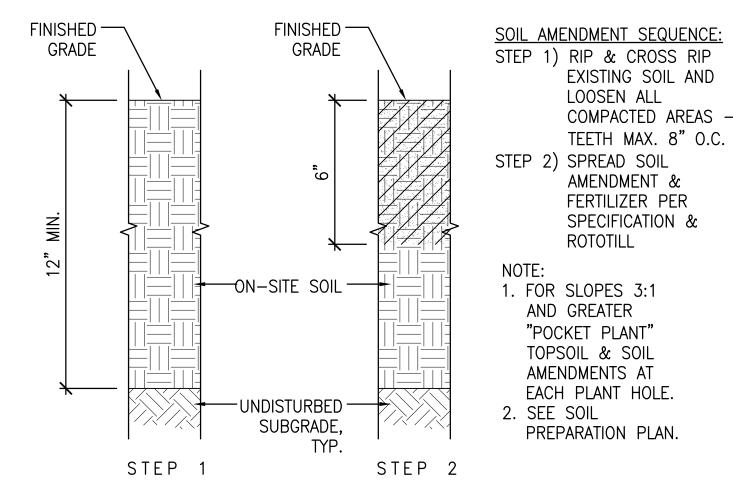




1. FOR ALL BURIED SECTIONS, RECORD LOCATIONS OF CLEAN OUTS BY TRIANGULATED DIMENSIONS ON AS-BUILTS. 2. 3/4" DRAIN ROCK SHALL CONFORM TO THE REQUIREMENTS OF THE SPECIFICATIONS, AND SHALL BE ANGULAR, VIRGIN CRUSHED ROCK FREE OF SILT AND FINES. COMPACT DRAIN ROCK IN MAX 12" LIFTS.

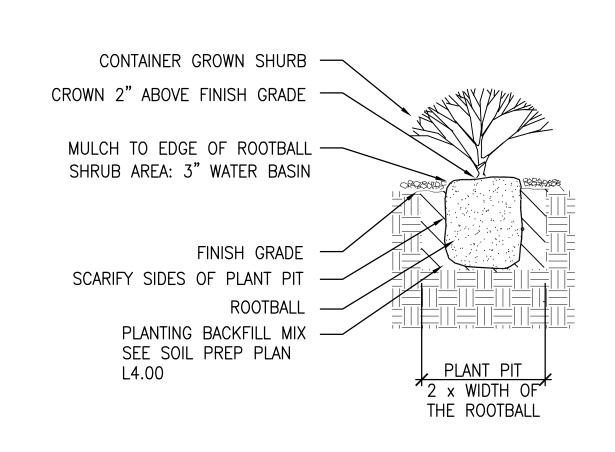
3 PERFORATED DRAIN PIPE SCALE: 3/4" = 1'

NOTE: REFER TO SPECIFICATIONS SECTION 329000



SOIL AMENDMENT ON-SITE

SCALE: 3" = 1'

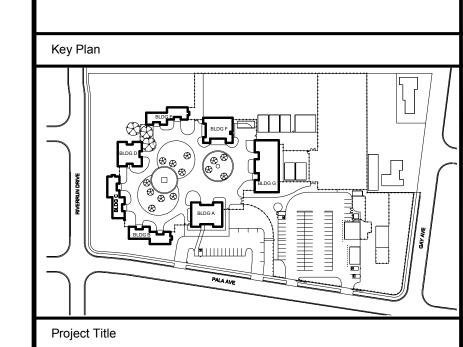


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Drawing Title

PLANTING DETAILS

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DIV.	IDENTIFICATION STAMP DIV. OF THE STATE ARCHITECT OFFICE OF REGULATION SERVICES					
	01-116	5131				
AC DATE_	FLS	SS				

REN. 9-30-17

43-H10 DSA Application Number 01-116131

135145

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