MODERNIZATION HOUSTON SCHOOL LODI UNIFIED SCHOOL DISTRICT 4600 ACAMPO RD, ACAMPO, CA 95220

ABBREVIATIONS

&

Ø

A.C.

A.V.

BD.

BLK.

BM.

BOT.

B.S.

CAB.

C.B.

CB.

D.A.

DBL. DET.

D.F.

D.I. DIA.

DIM.

DN. DP.

D.P.

DR. D.S.

DWG.

And Angle At Centerline Diameter or Round Perpendicular Pound or Number Plate Asphalt Concrete ACOUS. Acoustical A.D. Area Drain ADJ. AGGR. Adiustable Aggregate ALUM./AL Aluminum ARCH. Architectura ASPH. Asphalt AUTO. Automatic Auto Visual Bolt Board BLDG. Building Block BLKG. Blocking Beam Bottom Both Sides Cabinet Catch Basin Chalkboard CEM. Cement CER. C.G. Ceramic Corner Gaurd Cast Iron Construction Joint/Control Joint C.L. CLG. CLKG. CLR. Chain Link Ceiling Calking Clear Corrugated Metal Pipe C.M.P. C.M.U. Concrete Masonry Unit CNTR. Counter COL. Column CONC. Concrete CONN. Connection CONSTR Construction CONT Continuous CORR. Corridor Pennyweight (Nails) Disabled Accessible Double Detail Drinking Fountain Drain Inlet Diameter Dimension DIM.PT **Dimension Point** Down Deep Damp Proofing Door

Downspout

Drawing

(E)/EXST. EA. E.J. ELEC. EMER. ENCL. EQ. EQPT. E.W.C. EXP. EXT. F.A. F.B. F.D. FDN. F.E. F.F.E. F.H.M.B. F.H.M.S. FIN. F.L. FLASH'G F.O.C. F.O.F. F.O.S. F.R.P. F.S. FT. FTG. FURR. FUT. GA. GALV. G.B. GL. GND. GR. GYP. G.I. G.S.M. GYP. GYP.BD. HDR. HDWD. HDW. HOR. H.B. HR. HGT. I.D. IN.

Fast Existing Each Expansion Join Elevation Electrical Emergency Enclosure Equal Equipment Electric Water Cooler Expansion Exterior Fire Alarm Fiberboard Floor Drain Foundation Fire Extinguisher Finish Floor Elevation Flat Head Machine Bol Flat Head Machine Screw Floor Fusible Link Flashing Face of Concrete/Curb Face of Finish Face of Studs Fiberglass Reinforced Plastic Full Size Foot/Feet Footing Furring Future Gauge Galvanized Grab Bar Glass/Glazing Ground Grade Gypsum Galvanized Iron Galvanized Sheet Metal Gypsum Board Header Hardwood Hardware Horizontal Hose Bib Hour (Fire Rating) Height Inside Diamete Inch Information

K.P. KIT. LAM. LAV. LKR. LT.WT. L.V.	Kickplate Kitchen Laminate Lavatory Locker Light Weight Louver Vent	S. S.D. SECT. SHR. SHT. SHTG. SIM. S.M. S.M.S.
MAX. M.B. MAT'L. MECH. MEMB. MEZZ. MFR. MFR. MIN. MIN. MIR. MISC. MTD. MET.	Maximum Machine Bolt Material Mechanical Membrane Mezzanine Manufacturer Manhole Minimum Mirror Miscellaneous Mounted Metal	S.N.D. S.N.R. SPEC. SQ. S.R.V. S.SK. SST STD. STD. STD. STL. STOR. STRL. SUSP.
(N) N. N.I.C. NO./# NOM. N.T.S.	New North Not in Contract Number Nominal Not to Scale	SUSP. SYM. SHT.VNL. T. TB.
0/ 0.A. 0BS. 0.C. 0.D. 0FF.	Over Overall Obscure On Center Outside Diameter Office	T.B. T.&G. TEL. THK. THRES. THRU.
PRCST. PERF. P.LAM. PLAS. PLYWD. P.M.	Precast Perforated Plastic Laminate Plaster Plywood Pressed Metal	T.O.C. T.O.P. T.O.W. T.P.D. TYP.
P.M.F. PR. PRE-FAB PROJ. P.T.D. P.T.D./R. PTN.	Pressed Metal Frame Pair Prefabricated Project Paper Towel Dispenser Paper Towel Dispenser Receptacle Partition	U.O.N. UR. V.C.T. VERT. V.F.
P.T.R.	Paper Towel Receptacle	W.
R. RAD. R.B. R.D. REFR. REFR. RGTR. REINF. REQ. RET.	Riser Radius Rubber Base Roof Drain Rim Elevation Refrigerator Register Reinforced Required Return	W/ W.C. WD. W.H. W/O WSCT. W.W.M. WDW. WT.
RM. R.O. RWD. R.W.L. R.H.W.S.	Room Rough Opening Redwood Rain Water Leader Round Head Wood Screw	YD.

MATERIAL LEGEND						
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	EARTH		WOOD TRIM	וד דו		
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	SAND OR PLASTER		TILE	TI TI 20		
	CONCRETE	1888	BATT INSULATION	20 20 20 20 20 20 20 20 20 20		
	BLOCKING		BRICK	20 20 20		
	FRAMING (CONTINUOUS)		GYPSUM BOARD	20 20 20 20 20 20 19 20		
	PLYWOOD		FIRTEX	19		

INFO. INSUL. INT.

JAN. JST.

Insulation

Interior

Janitor

Joist Joint

APPLICABLE CODES

TITLE 19 CCR, PUBLIC SAFETY, STATE FIRE MARSHAL RI
TITLE 24 CCR, PART 1 - 2016 BUILDING STANDARDS ADM
TITLE 24 CCR, PART 2 - 2016 CALIFORNIA BUILDING COD
TITLE 24 CCR, PART 3 - 2016 CALIFORNIA ELECTRICAL C
AS AMENDED BY CA)
TITLE 24 CCR, PART 4 - 2016 CALIFORNIA MECHANICAL C
IAPMO UMC, AS AMENDED BY CA)
TITLE 24 CCR, PART 5 - 2016 CALIFORNIA PLUMBING COI
UPC, AS AMENDED BY CA)
TITLE 24 CCR, PART 6 - 2016 CALIFORNIA ENERGY CODE
TITLE 24 CCR, PART 9 - 2016 CALIFORNIA FIRE CODE (CF
AMENDED BY CA)
TITLE 24 CCR, PART 11 - 2016 CALIFORNIA GREEN BUILD
TITLE 24 CCR, PART12 - CALIFORNIA REFERENCED STAN
(partial list - see CBC Ch. 35 and CFC Ch. 80)
2016 NFPA 13, INSTALLATION OF SPRINKLER SYSTEMS (
2013 NFPA 14, INSTALLATION OF STANDPIPE AND HOSE
2013 NFPA 17, DRY CHEMICAL EXTINGUISHING SYSTEMS
2013 NFPA 17A, WET CHEMICAL EXTINGUISHING SYSTEM
2016 NFPA 20, INSTALLATION OF STATIONARY PUMPS FO
2013 NFPA 22, WATER TANKS FOR PRIVATE FIRE PROTE
2016 NFPA 24, INSTALLATION OF PRIVATE FIRE SERVICE
2016 NFPA 72, NATIONAL FIRE ALARM CODE (CA AMEND
for "Visual Devices"
2016 NFPA 80, FIRE DOOR AND OTHER OPENING PROTE
2015 NFPA 2001, CLEAN AGENT FIRE EXTINGUISHING SY
2005 UL 300, CLASS I HOOD FIRE SUPPRESSION SYSTEM
2003 UL 464, AUDIBLE SIGNAL APPLIANCES
1999 UL 521, HEAT DETECTORS FOR FIRE PROTECTIVE S
2012 ICC 300, BLEACHERS, FOLDING AND TELESCOPIC S
GRANDSTANDS (ICC300-2012)

	SYMBOL LEGEND
su th	SHEET NUMBERING SYSTEM Discipline Designation Drawing Type Desig Sheet Number A2.6.A Building Designation
buth hap Dispenser faction hower heet heeting milar heet Metal heet Metal Screw anitary Napkin Dispenser anitary Napkin Receptacle becification puare emi Rigid Vinyl ervice Sink ainless Steel reet andard heel orage ructural heet Vinyl wilet	ROOM NAME and NUMBER REFERENCE WOMEN Room Name A103 Boom Number Building Unit Building Unit KEYNOTE REFERENCE 2200.A7.05 SHEET NOTE REFERENCE SN.01 DETAIL REFERENCE Detail Number XXX Detail Number
ackboard wel Bar ongue & Groove elephone nick ureshold urough op of Curb op of Pavement op of Wall	BUILDING SECTION REFERENCE
ilet Paper Dispenser pical nless Otherwise Noted inal nyl Composition Tile	STOREFRONT, WINDOW OR LOUVER REFERENCE Windows Covering Reference H=HORIZONTAL BLINDS V=VERTICAL BLINDS D=DARKENING DRAPES
ertical nyl Fabric est ith ater Closet ood ater Heater ithout ainscot elded Wire Mesh indow eight	DOOR REFERENCE A101 CEILING TYPE REFERENCE C2 WALL TYPE REFERENCE C2 EXTERIOR FINISH REFERENCE A

REGULATIONS MINISTRATIVE CODE DE, VOL. 1 & 2 (CBC) CODE (CEC) (2014 NEC,

CODE (CMC) (2015

ODE (CPC) (2015 IAPMO

FC) (2015 IFC, AS DING STDS CODE

NDARDS

(CA AMENDED) SYSTEMS EMS FOR FIRE PROTECTION ECTION

E MAINS DED); See UL Std 1971 ECTIVE SYSTEMS

EMS

SIGNALING SYSTEMS SEATING, AND

CONTRACTOR SHALL KEEP A COPY OF TITLE 24, PARTS 1-5 ON THE SITE AT ALL TIMES. TITLE 24, PART 1, SECTION 4.317(c):

"THE INTENT OF THESE DRAWINGS AND SPECIFICATIONS IS THAT THE WORK OF THE ALTERATION. REHABILITATION OR RECONSTRUCTION IS TO BE IN ACCORDANCE WITH TITLE 24, CALIFORNIA CODE OF REGULATIONS. SHOULD ANY EXISTING CONDITIONS SUCH AS DETERIORATION OR NONCOMPLYING CONSTRUCTION BE DISCOVERED WHICH IS NOT COVERED BY THE CONTRACT DOCUMENTS WHEREIN THE FINISHED WORK WILL NOT COMPLY WITH TITLE 24, CALIFORNIA CODE OF REGULATIONS A CONSTRUCTION CHANGE DOCUMENT, OR SEPARATE SET OF PLANS AND SPECIFICATIONS, DETAILING AND SPECIFYING THE REQUIRED REPAIR WORK SHALL BE SUBMITTED TO AND APPROVED BY DSA BEFORE PROCEEDING WITH REPAIR WORK.'

STRUCTURAL GRID INDICATOR

STRUCTURAL GRID INDICATOR

Window Covering Location

Revision Numbe

Radius Point Numbe

— Radius Dimension

(221A)L - Indicates all drawers and doors to have locks installed

LABORATORY CASEWORK REFERENCE

WORK POINT, CONTROL POINT OR DATUM

(Center of Framing)

(Face of Framing)

(A)—

3

MATCH LIN

CENTERLINE

PROPERTYLINE

WINDOW (PLAN VIEW)

REVISION

RADIUS

R=92<u>'-4</u>" (1)

MS1

(99)

99

(AP1)

SIGN REFERENCE

S2

CASEWORK REFERENCE

METAL SHELVING REFERENCE

MUSIC CASEWORK REFERENCE

ACOUSITICAL PANEL REFERENCE

— Discipline Designation

Drawing Type Designation

------ Sheet Number ------ \ AX.X.X /

NOTES:

- 1. ALL NEW WORK SHALL CONFORM TO THE 2016 EDITION, TITLE 24, CALIFORNIA CODE OF
- REGULATIONS. 2. CHANGES TO THE STRUCTURAL, ACCESSIBILITY OR FIRE AND LIFE-SAFETY PORTIONS OF THE APPROVED PLANS AND SPECIFICATIONS AFTER THE WORK HAS BEEN APPROVED SHALL BE MADE BY A CONSTRUCTION CHANGE DOCUMENT AS REQUIRED IN SECTION 4-338, PART 1, CAC, AND SHALL BE SUBMITTED TO AND APPROVED BY DSA PRIOR TO COMMENCEMENT OF THE WORK. ALL CONSTRUCTION CHANGE DOCUMENTS SHALL BE PREPARED AND SUBMITTED TO DSA IN COMPLIANCE WITH DSA INTERPRETATION OF REGULATIONS IA A-6. CONSTRUCTION CHANGE DOCUMENTS ARE NOT VALID UNTIL APPROVED BY DSA PER SECTION 4-338, PART 1, TITLE 24, AND NO WORK SHALL COMMENCE UNTIL APPROVED BY DSA.
- 3. A DSA "CERTIFIED PROJECT INSPECTOR EMPLOYED BY THE DISTRICT (OWNER) AND APPROVED BY THE DIVISION OF THE STATE ARCHITECT SHALL PROVIDE CONTINUOUS INSPECTION OF THE WORK. THE DUTIES OF THE INSPECTOR ARE DEFINED IN SECTION 4-343, CALIFORNIA BUILDING STANDARDS ADMINISTRATIVE CODE (PART 1, TITLE 24, CCR)
- 4. A DSA CERTIFIED INSPECTOR WITH CLASS 2 IS REQUIRED FOR THIS PROJECT (IR A-7) 5. AN LEA TESTING LABORATORY DIRECTLY EMPLOYED BY THE OWNER SHALL CONDUCT ALL THE REQUIRED TESTS AND INSPECTIONS FOR THE PROJECT.
- 6. GRADING PLANS, DRAINAGE IMPROVEMENT, ROAD AND ACCESS REQUIREMENTS AND ENVIRONMENTAL HEALTH CONSIDERATIONS SHALL COMPLY WITH ALL LOCAL ORDINANCES. 7. ADDENDA SHALL BE APPROVED BY DSA.

SHEET INDEX ARCHITECTURAL COVER SHEET CS A0.1 DETAILS A1.1 FIRE AUTHORITY APPROVAL SIT A1.2 VICINITY MAP, BUILDING DATA A2.1.BD FLOOR PLANS, INTERIOR ELE A2.1.CD FLOOR PLANS BUILDING, C & D A2.1.DE FLOOR PLANS BUILDING, D & E A2.1.F.1 FLOOR PLANS BUILDING F A2.1.F.2 ENLARGED FLOOR PLANS, INTE A2.1.F.3 ENLARGED FLOOR PLANS, INTE A2.1.P3 FLOOR PLAN, INTERIOR ELEVA FINISH SCHEDULE, DOOR SCHE A3.1 DETAILS A8.1 A8.2 DETAILS STRUCTURAL GENERAL NOTES S0.1 TYPICAL WOOD FRAMING DET S0.2 S0.3 **TYPICAL FOUNDATION & RENO** S1.1 STRUCTURAL SITE PLAN S2.1 STRUCTURAL WALL FRAMING S4.1 DETAILS MECHANICAL M0.1 MECHANICAL LEGEND, SCHEDUL MECHANICAL EQUIPMENT SCHE M0.2 MECHANICAL EQUIPMENT SCHE M0.3 M1.1 MECHANICAL SITE PLAN M2.1BD.1 MECHANICAL DEMO FLOOR PLA M2.1BD.2 MECHANICAL FLOOR PLAN BUILD M2.1CD MECHANICAL FLOOR PLAN BUILD MECHANICAL FLOOR PLAN BUILD M2.1DF M2.1F.1 MECHANICAL DEMO FLOOR PLAN M2.1F.2 MECHANICAL ENLARGED FLOOR MECHANICAL DETAILS M5.1 M5.2 MECHANICAL DETAILS M5.3 MECHANICAL DETAILS M6.1 MECHANICAL CONTROLS M6.2 MECHANICAL CONTROLS M6.3 MECHANICAL CONTROLS M7.1 T-24 DOCUMENTATION P0.1 PLUMBING LEGEND, SCHEDULE & P0.2 PLUMBING LEGEND, SCHEDULES P0.3 PLUMBING FIXTURE SCHEDULE

• SH

STATEMENT OF GENERAL

FOR INCLUDING BUT LICENSE

The drawings or sheets liste

Have/has been prepared by authorized to prepare such d

- design intent, and appe
- Regulations, and the procoordination with my pla 2. construction of this proj

The Statement of General Co rights, duties, and responsibi Sections 4-336, 4-341 and 4

> -----ARCHI

DEFERRED APPR

PROJECT TEAM

OWNER

LODI UNIFIED SCHOOL DISTRICT 1305 E. VINE STREET LODI, CA 95240 CONTACT: JOE PATTY PHONE: (209) 712-6363 EMAIL: jpatty@lodiusd.net

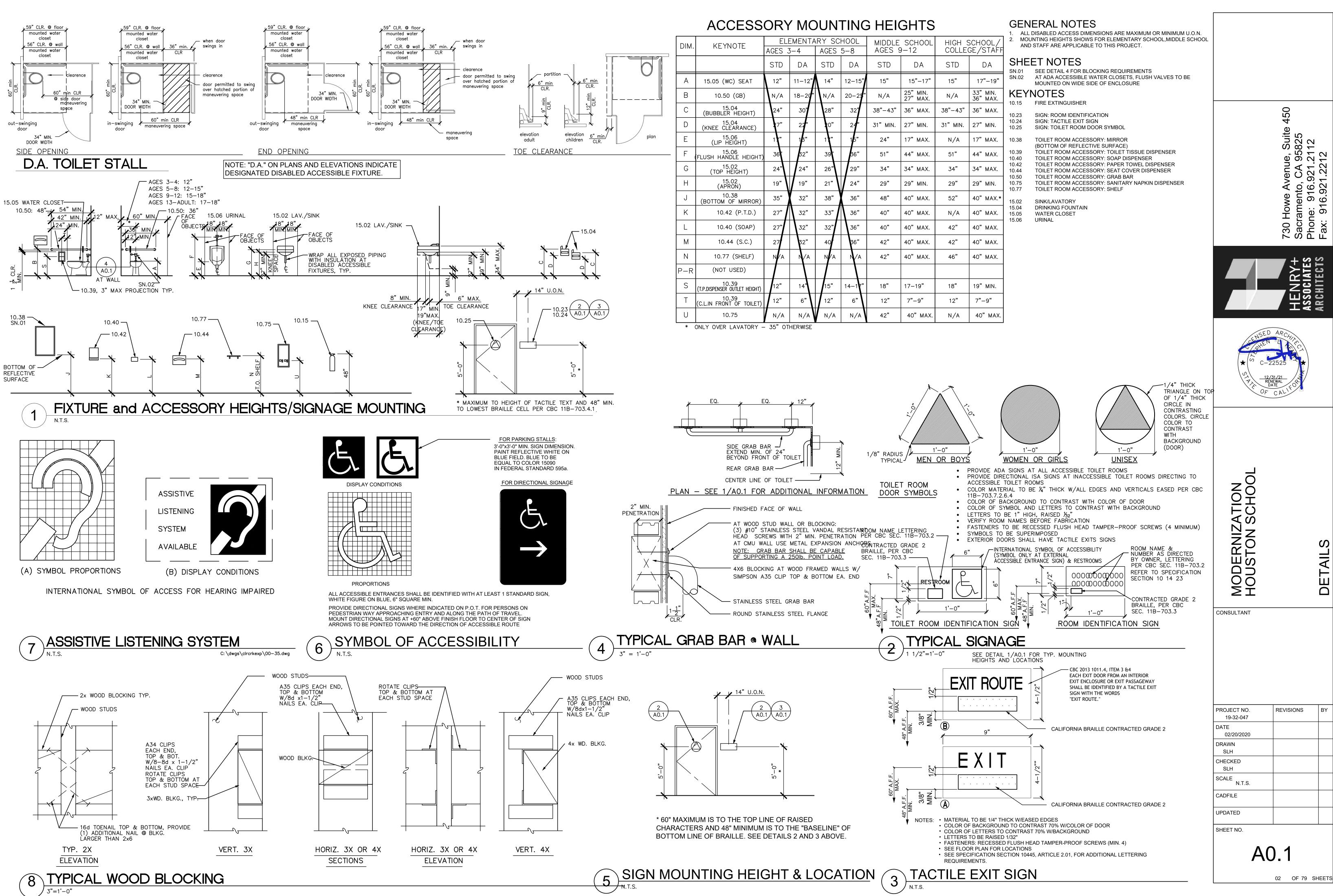
ARCHITECTURAL

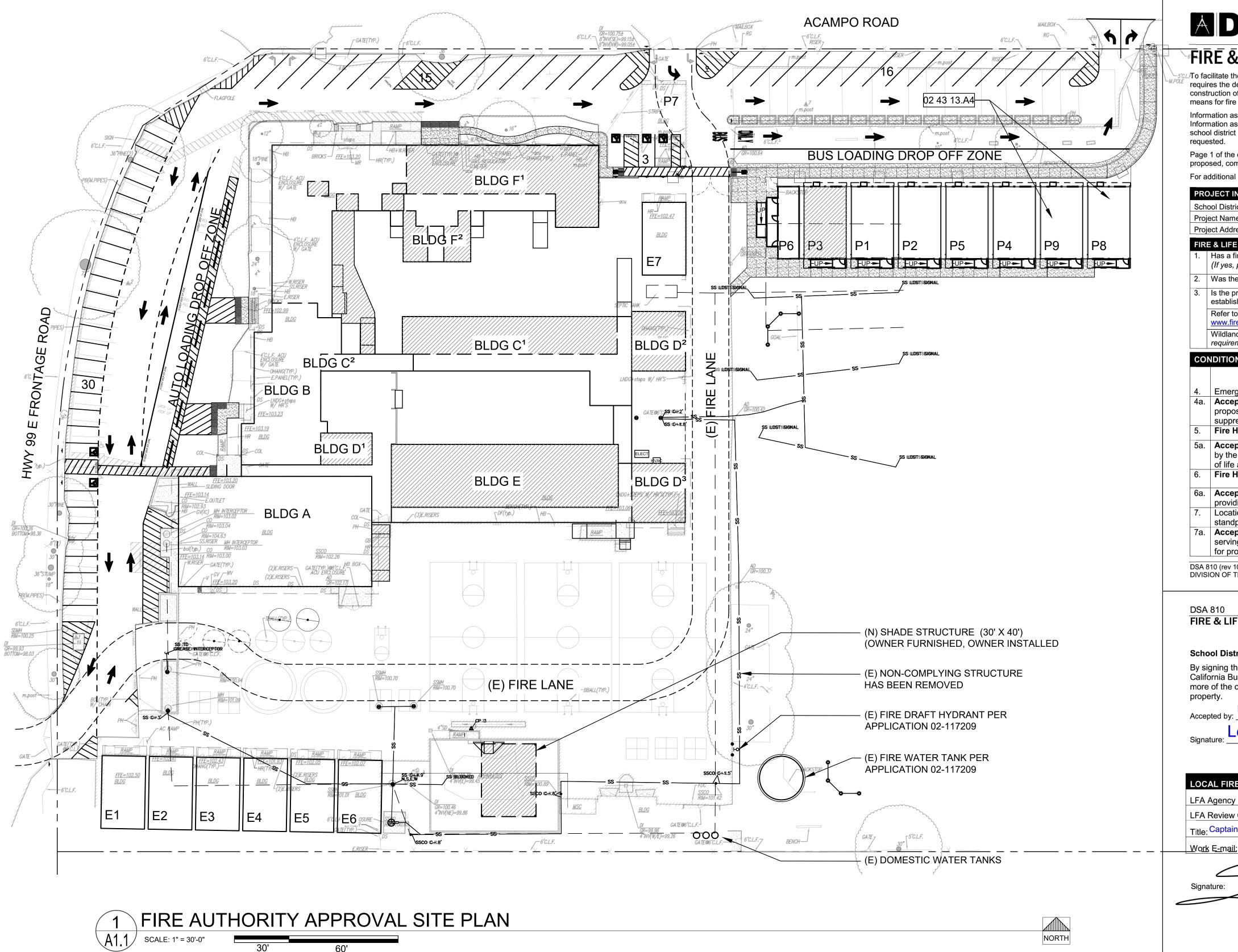
HENRY + ASSOCIATES ARCHITECTS 730 HOWE AVE, SUITE 450 SACRAMENTO, CA 95825 CONTACT: STEPHEN HENRY PHONE: (916) 921-2112 EMAIL: stephen@henry-architects.co

PROJECT DESC

- Modernization of student and HVAC systems replacement
- Energy Management System
- Asbestos removal
- Fire alarm system replaceme
- Emergency lighting

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	P1.1 PLUN	1BING SITE PLAN			
	P2.1BD PLUN	1BING FLOOR PLAN BUILDINGS B & D			
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	P5.1 PLUN	1BING DETAILS			
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other design profession	onals or consu	Iltants who are licensed and/or	_		
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ears to meet the appro	priate require	ments of Title 24, California Code of		_	
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Conformance "shall no		o i			
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4-344" of Title 24, Part	1 (Title 24, Pa	art 1, Section 4-317 (b)).		ļ	\exists
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10-5					
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ELECTRICAL	_	MECHANICAL			
M. NEILS ENGINEER		CAPITAL ENGINEERING CONSULTANTS INC			
100 HOWE AVENUE, SACRAMENTO, CA 9		11020 SUN CENTER DRIVE, SUITE 100 RANCHO CORDOVA, CA 95670			
CONTACT: SINISHA		CONTACT: MICHAEL MINGE		1 1	
PHONE: (916) 923		PHONE: (916) 851-3500	PROJECT NO. 19-32-047	REVISIONS	BY
EMAIL: <u>SGlisic@</u>	mneilsengineering.	com mminge@capital-engineering.com	DATE		
CIVIL		STRUCTURAL	02/20/2020		
WARREN CONSULT		NC. BARRISH PELHAM	DRAWN		
1117 WINDFIELD WA	,	3001 E. STREET	SLH		
EL DORADO HILLS, (CONTACT: MARTY (SACRAMENTO, CA 95816 CONTACT: GREG RICHARDS	CHECKED SLH		
PHONE: (916) 985	5-1870	PHONE: (916) 418-9100	SCALE		
com EMAIL: <u>marty@w</u>	/ceinc.com	GRichards@degenkolb.com	N.T.S.		
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ADSA 810

FIRE & LIFE SAFETY SITE CONDITIONS SUBMITTAL

requires the design professional to provide the following information at time of project submittal for projects consisting of construction of a new campus, construction of new building(s), additions to existing buildings, and for site alternate design means for fire department emergency vehicle access, and fire suppression water supply.

Information associated with compliance items 1–3 below is to be provided for all project types indicated above. Information associated with items 4–7 is to be completed when an alternate means is utilized. Acknowledgement by the school district and signature from the local fire authority (LFA) is only required when an alternate design means is being

Page 1 of the completed form must be imaged onto the fire access site plan. When an alternate design/means is proposed, completed pages 1 and 2 are to be imaged on the fire access site plan.

For additional information refer to the instructions at the end of this form and DSA Policy 09-01.

INFORMATION			
rict/Owner: Lodi Unified School District			
ne/School: Houston School			
ress: 4600 ACAMPO ROAD, ACAMPO, CA 95220			
E SAFETY INFOMATION			
fire hydrant flow test been performed within the past 12 months? , provide a copy of the test data.)	Yes 🗖		No 🗵
ne fire hydrant water flow test performed as part of this LFA review?	Yes 🗖		No 🗵
project located within a designated fire hazard severity zone as shed by Cal-Fire? (If yes, indicate fire hazard zone classification below)	Yes 🗖		No 🗵
to the following for fire hazard zone locations: ire.ca.gov/fire_prevention/fire_prevention_wildland_zones_maps	Moderate	High	Very High
nd Interface Area (WIFA) (<i>If any designations are checked, project desigr</i> ements of CBC Chapter 7A.)	n must meet	the	WIFA 🗖

ON MEANS AND METHODS RESOLUTION	ALTE	RNATE	ACCE	PTED
	Yes	No	N/A	N/R
			\mathbf{X}	
rgency vehicle access roadways do not meet CFC requirements.				
eptable Alternate: Emergency vehicle and personnel access as				
osed by the project architect is acceptable for providing fire				
ression and protection of life and property.				
Hydrants: Number and spacing does not meet CFC requirements.			$ \times $	
eptable Alternate: Number of fire hydrants and spacing as proposed				
e project architect is acceptable for fire suppression and protection				
e and property.				
Hydrants: Water flow and pressure are less than CFC minimum.				
eptable Alternate: The available flow and pressure is acceptable for	\sim			
ding fire suppression and protection of life and property.	\mathbf{X}			
tion of fire department connection(s) serving fire sprinkler systems or				
dpipe systems does not meet CFC requirements.				
eptable Alternate: The location of fire department connection				
ng the fire sprinkler system and/or standpipe system is acceptable				
roviding fire suppression and protection of life and property.				
10.22.49			Der	1 of (
10-22-18) THE STATE ARCHITECT DEPARTMENT OF GENERAL SERVICES		STATE O		e 1 of 4 ORNIA

FIRE & LIFE SAFETY SITE CONDITIONS SUBMITTAL

School District Acceptance of Acceptable Design Alternates

By signing this form, the school district acknowledges and accepts the proposed design as an alternative to California Building Code (CBC) and California Fire Code (CFC) minimum requirements, as indicated by one or more of the conditions indicated at items 4a, 5a, 6a or 7a, for providing fire and life safety protection of life and

Title:

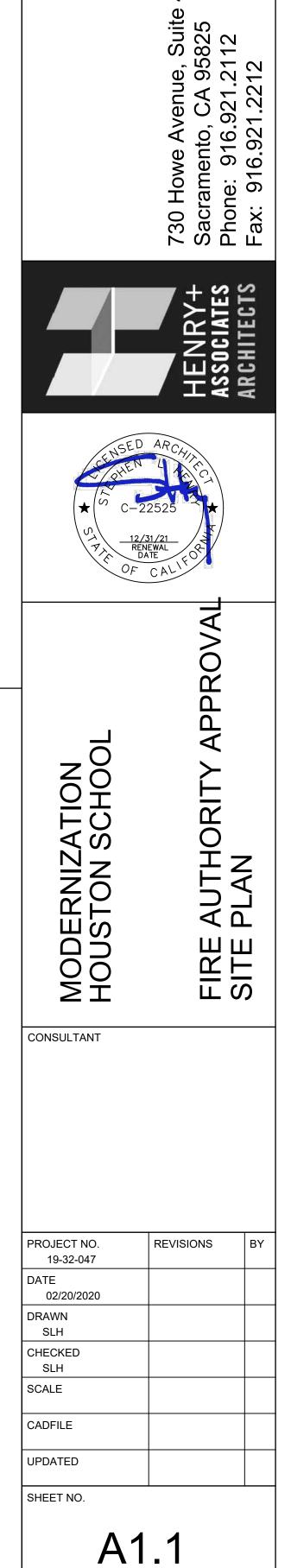
12/17/2019

CHIEF BUSINESS OFFICER

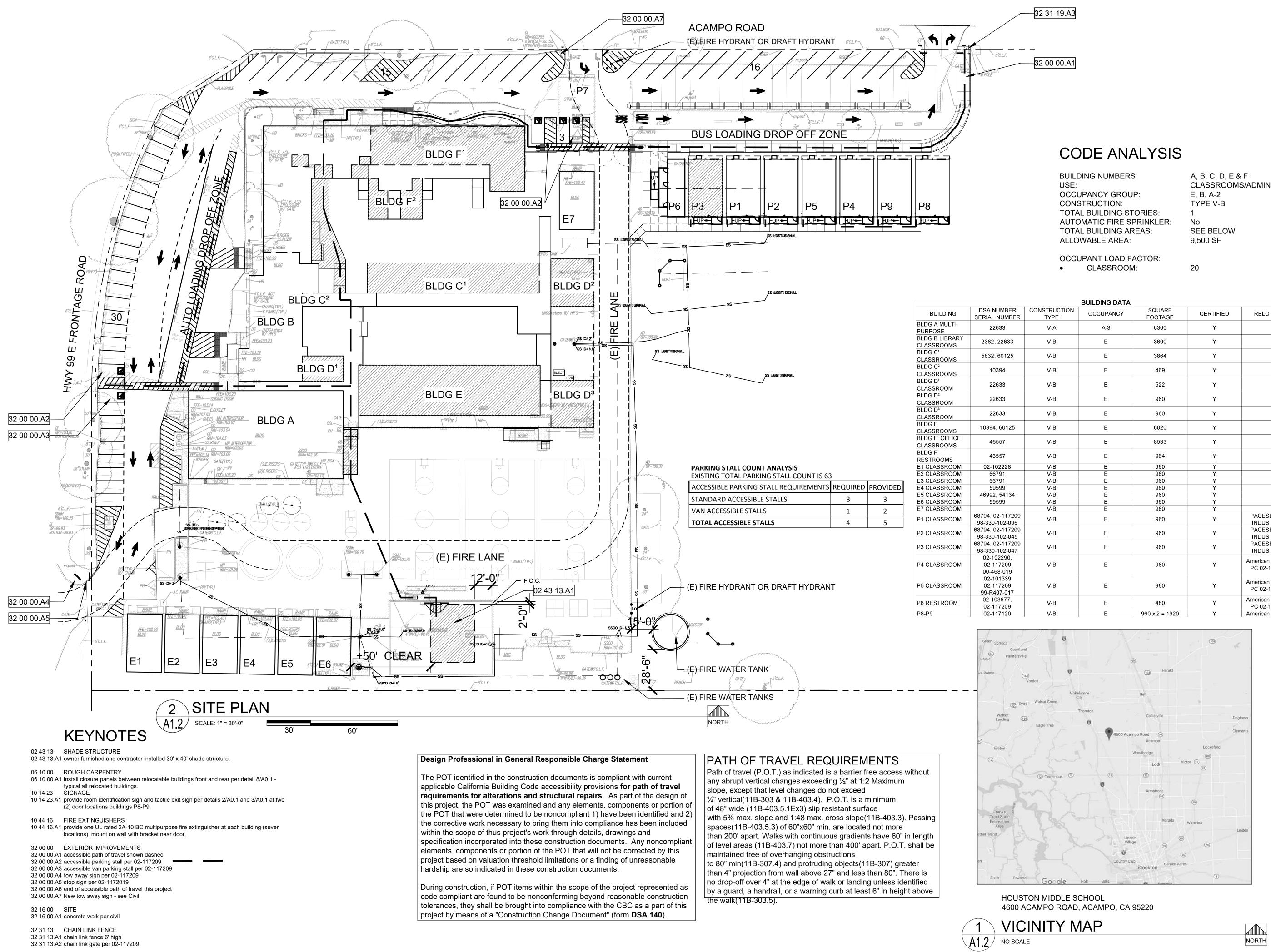
LEONARD KAHN

Leonard Kahn Digitally signed by Leonard Kahn Date: 2019.12.17 15:24:11 -08'00' Date:

E AUTHORITY (LFA) INFORMATION Name: WOODBRIDGE FIRE DISTRICT Official: Jaime Ramirez			
Official: Jaime Ramirez	E AUTHORITY (LFA) INFORMATION		
Official: Jaime Ramirez	Name: WOODBRIDGE FIRE DISTRICT		
ו			
•	ı		
jaime.ramirez@woodbridgefire.org	jaime.ramirez@woodbridgefire.org		
2/2/2019 Date: 12/17/2019	$ \sim 1/2 $	te:	12/17/2019



450



32 31 19 ORNAMENTAL METAL FENCE 32 31 19.A3 ornamental metal gate per 02-117209

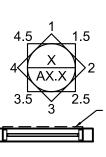
CLASSROOMS/ADMIN./MP

RELO MFR PACESETTER INDUSTRIES PACESETTER INDUSTRIES PACESETTER INDUSTRIES American Modular PC 02-101837 American Modular PC 02-101837 American Modular PC 02-101741 American Modular

	730 Howe Avenue, Suite 450 Sacramento, CA 95825 Phone: 916.921.2112 Fax: 916.921.2212
	HENRY+ Associates Architects
★ CENSE CONFENSE CON	22525 ★ 2/31/21 EAREWAL DATE
MODERNIZATION HOUSTON SCHOOL	VICINITY MAP BUILDING DATA SITE PLAN
CONSULTANT	
PROJECT NO. 19-32-047 DATE 02/20/2020 DRAWN SLH CHECKED SLH SCALE CADFILE UPDATED	REVISIONS BY Image:

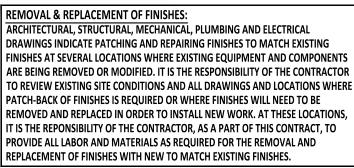
A1.2

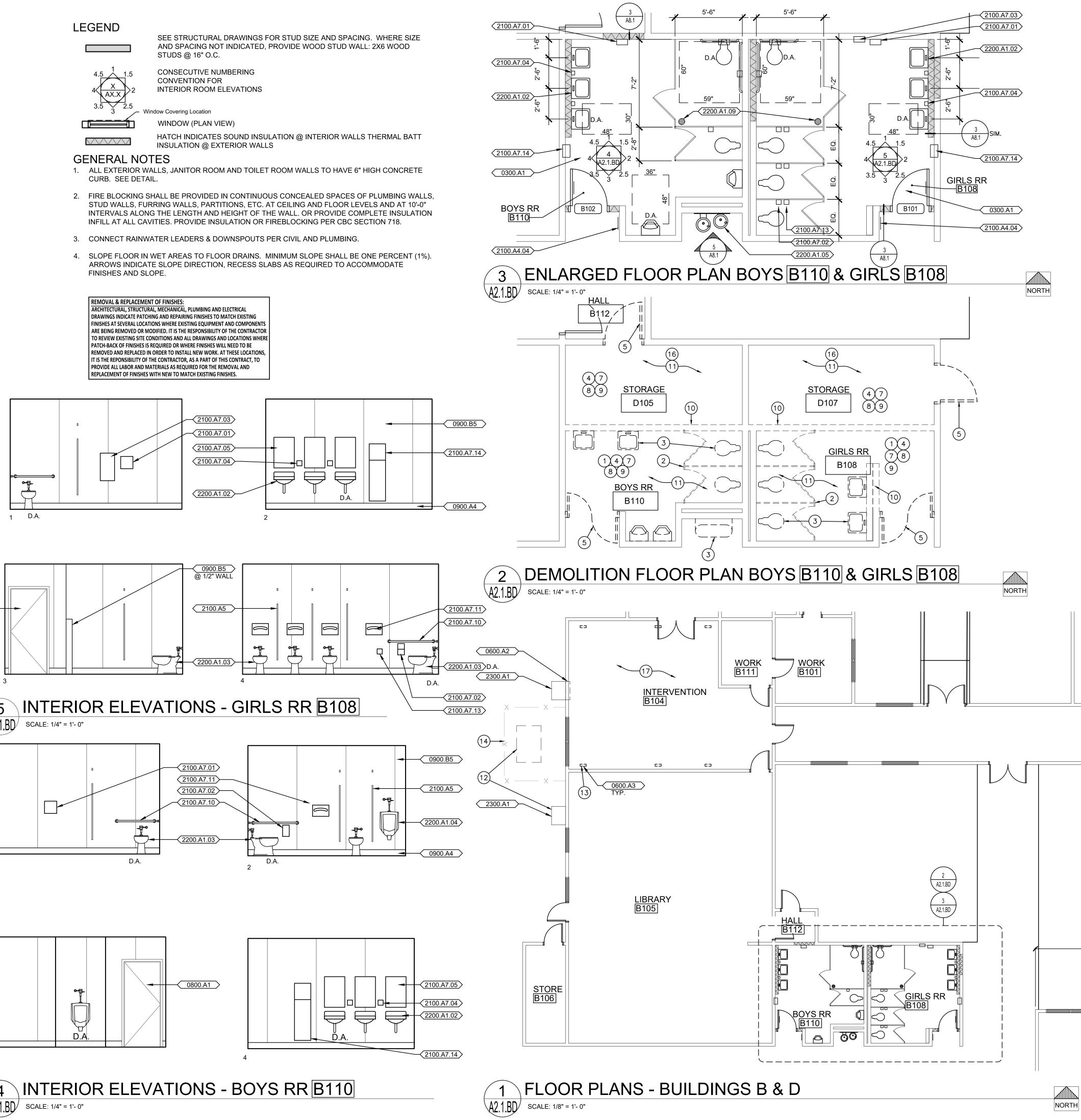
SHEET NO.

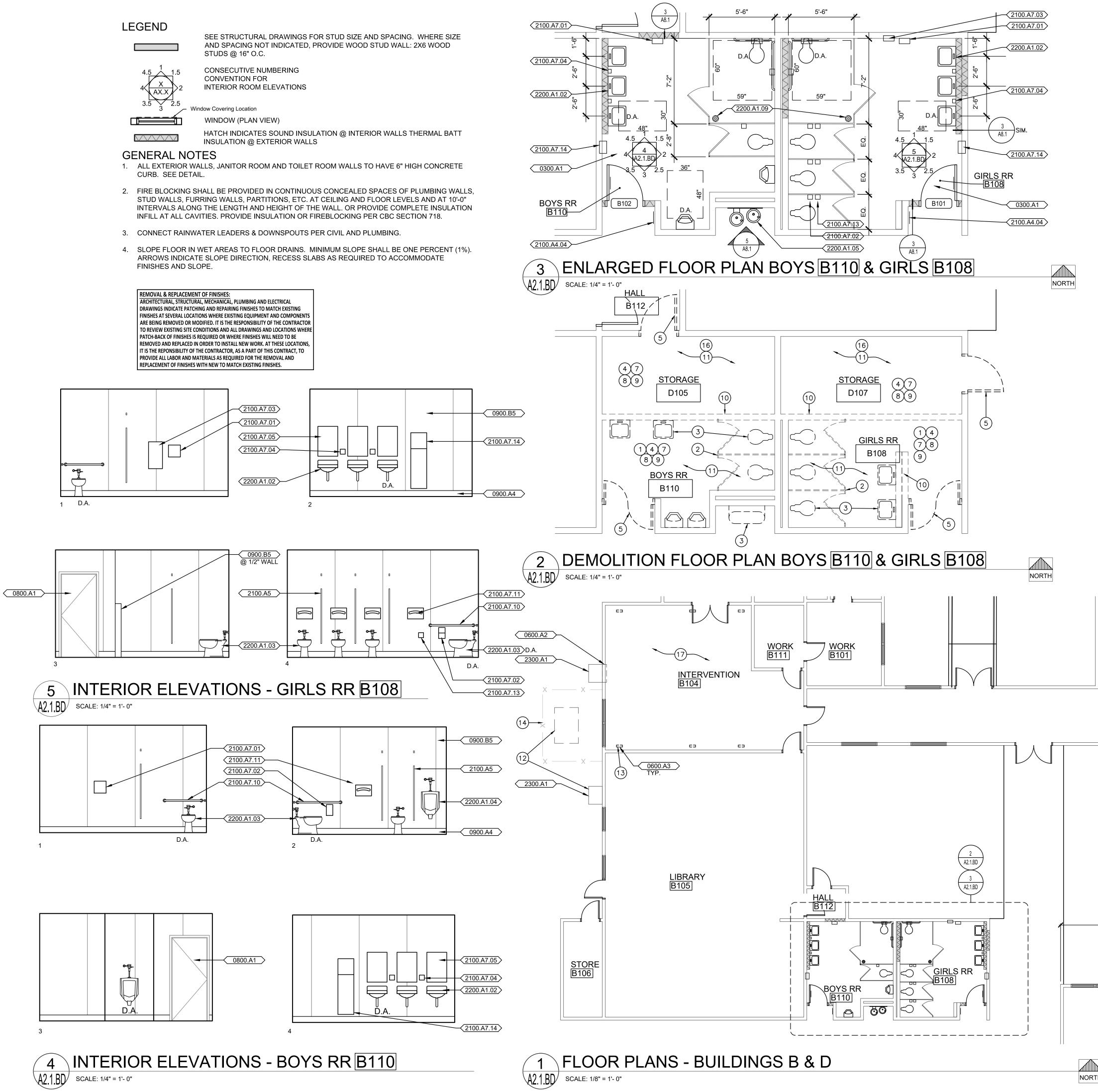


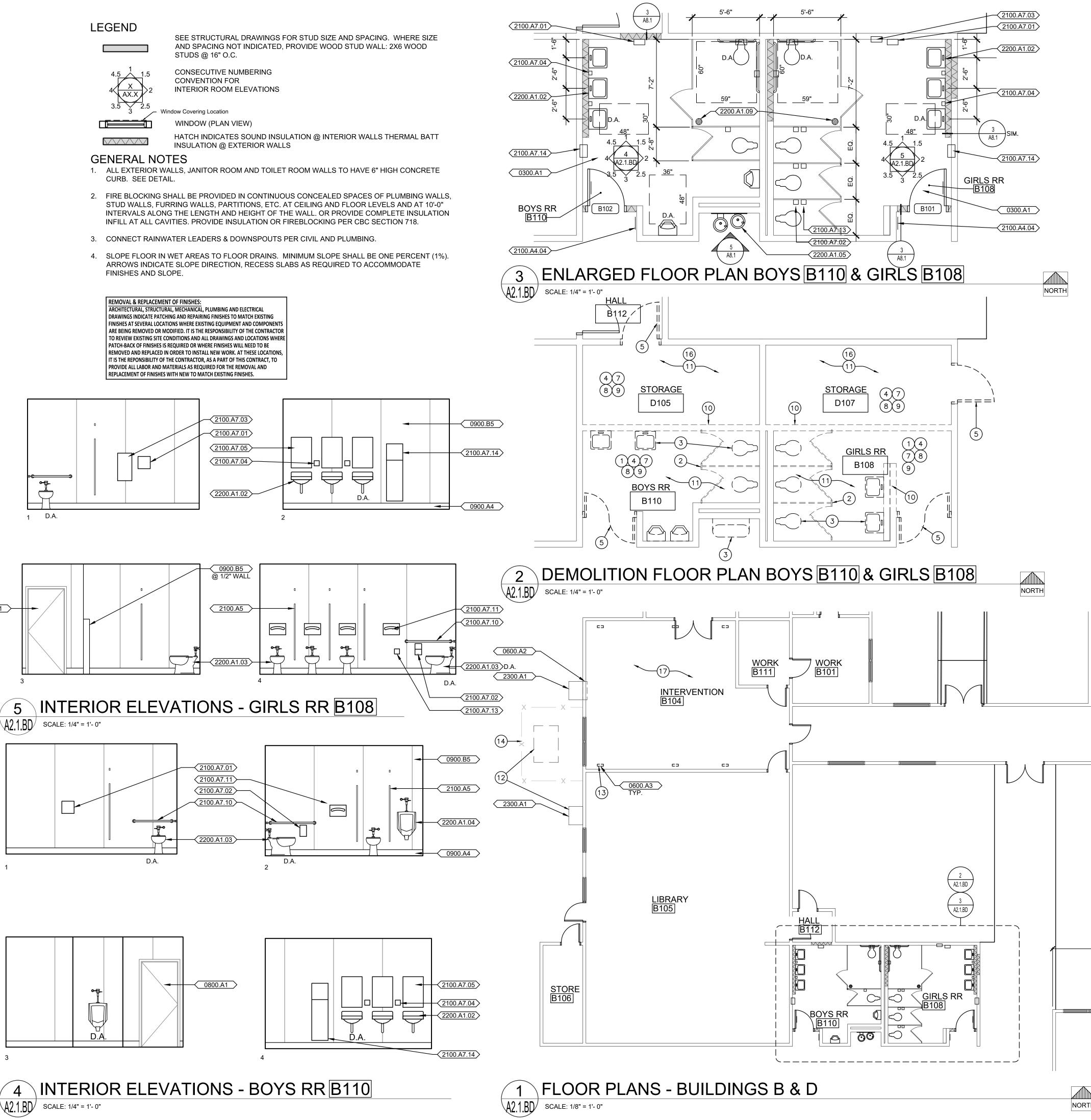
INSULATION @ EXTERIOR WALLS

- CURB. SEE DETAIL.
- STUD WALLS, FURRING WALLS, PARTITIONS, ETC. AT CEILING AND FLOOR LEVELS AND AT 10'-0" INFILL AT ALL CAVITIES. PROVIDE INSULATION OR FIREBLOCKING PER CBC SECTION 718.
- ARROWS INDICATE SLOPE DIRECTION, RECESS SLABS AS REQUIRED TO ACCOMMODATE FINISHES AND SLOPE.









KEY	NOTES	2100 2100.A1	SPECIALTIES display case		
0300	CONCRETE	2100.A2 2100.A3	marker board TV/monitor bracket		
0300.A1	concrete slab on grade - replace where remove - see plumbing and structural	²⁰ 2100.A4	signs: .01 parking lot entrance sign "towaway" per		
0300.A2 0300.A4	concrete footing expansion joint		Civil .02 ADA accessible parking stall sign per Civil		
0300.A5 0300.A6	splash block Concrete curb		.03 room identification sign per dtl. 2/A0.1		
0300.A7	Concrete curb, walkway, stairs & pilasters - see civil	e	.04 restroom identification sign per dtl. 2/A0.1 .05 ADA Tactile exit sign per dtl. 3/A0.1		
0400			.06 self-illuminating exit .07 assistive listening system per detail		
0400 0400.A1	MASONRY concrete masonry wall		7/A0.1 .08 Monument sign		
0500	METALS		.09 Building sign .10 Dedication plague		
0500.A2 0500.A3	corrugated structural metal roof deck metal pipe bollard concrete fill	2100.A5 2100.A6	toilet partition urinal partition		450
0500.A4 0500.A5	metal pipe bollard removable metal pipe hand rail - 1.5" diameter	2100.A0	toilet accessories:		
0500.A6 0500.A7	metal roof access ladder with security door metal louver		.01 paper towel dispenser .02 toilet paper dispenser		uite 25 2
0500.A8	Metal pipe handrails & guardrails - see civil		.03 sanitary napkin dispenser .04 soap dispenser		S ∞ ↔
0500.B1 0500.B2	rolled channel (structural support grid) metal furring channel		.05 mirror .09 trash receptacle		e, 95 12
0600	WOOD, PLASTICS AND COMPOSITES		.10 grab bar .11 toilet seat cover		Avenue o, CA 9 6 921 2 21 2213
0600.A1 0600.A2	wood framing - see structural frame opening for new door, window, or HVAC		.13 sanitary napkin disposal		90°, Ce
0600.A3 0600.A4	in-fill frame door/window/duct opening wood beam	2100.A8	.14 paper towel dispenser/ waste receptacle folding panel partition		
0600.A5	wood post	2100.B1 2100.B2	fire extinguisher metal shelving		
0600.A6 0600.A7	wood joist wood trusses	2100.B3 2100.B4	metal lockers knox box		How rame ne: 9 : 916
0600.A8 0600.A9	2 x 4 furred wall blocking	2110	EQUIPMENT		730 Hc Sacran Phone: Fax: 9
0600.B1 0600.B2	exterior wood wall sheathing exterior wood roof sheathing	2110.A1 2110.A2	projection screen refrigerator (owner furnished, contractor		73 Sa Ph Fa
0600.B3	wood framed and sheathed cricket - use fire retardant treated wood		installed)		
0600.C1	wood trim	2110.A3	microwave (owner furnished, contractor installed)		\sigma
0600.C2	wood hand rail	2120	FURNISHINGS		「 」 「 」 一 一 じ い
0700 0700.A1	THERMAL AND MOISTURE PROTECTION insulation	2120.A1 2120.A2	window coverings & track plastic laminate casework		
	.01 R-13 batt/blanket (3.5" thick) .02 R-21 batt/blanket (6.5" thick)	2120.82	.01 ada accessible sink base cabinet		Z8 =
	.03 R-30 batt/blanket (10" thick)		.02 plastic laminate countertop with 4" backsplash		RC SS
	.04 R-38 batt/blanket (12" thick) .05 board insulation (2" thick)	2120.A3	casework		
0700.B1	.06 board insulation tapered cricket Standing seam roofing system	2200 2200.A1	PLUMBING plumbing equipment		
0700.B2.	single ply membrane roofing system .01 extend roofing up and over parapet wall		.01 sink .02 lavatory	ENSED	ARCHIN
	.02 walk pad .03 Parapet Wall Flashing		.03 toilet	V PHEN	
0700.B3 0700.B4	built up roofing modified bitumen roofing		.04 urinal .05 drinking fountain	15	
0700.B5	composition shingle roofing		.06 mop sink .07 water heater	★ ⁻ C-2	2525
0700.C1	galvanized sheet metal .01 two piece Fry Springlok flashing system		.08 Roof drain/Overflow Combo Unit .09 Floor drain - slope floor to drain 2% max.		31/21 NEWAL
	.02 parapet cap flashing .02 valley flashing		slope	E OF	CALLEOT
	.03 splash pan .05 scupper	2300 2300.A1	HVAC		
	.06 gutter	2300.A2	mechanical equipment ceiling register		
	.07 downspout .08 22 GA GSM Siding/Soffit	2300.A3 2300.A4	mechanical duct Condensate Line		
0700.C2	.09 22 GA GSM Corner Guard vent	2600	ELECTRICAL		
	.01 roof vent - typ. of 4 .02 pipe vent	2600.A1 2600.A2	electrical equipment light fixture		Ś
	.03 hot vent .04 duct penetration	2600.A3	MDF		SNO
0700.D1	sealant .01 remove (e) sealant from (e) doors and (e	3200	SITEWORK		0
	windows, install (n) sealant - typical	3200.A2	gas meter assembly water meter box	<u> </u>	Ē
	.02 remove (e) sealant and backer pod from (e) concrete wall panel joint - install (n)		backflow assembly fire hydrant	ZŎ	ΔÞ
	backer rod and sealant - typical	3200.A5 3200.A6	trench drain area drain	ΔĪ	$\sim \sim \sim \sim$
0800 0800.A1	OPENINGS door and frame	3200.A7 3200.B1	drain inlet decomposed granite	ΗO	
0800.A2	door	3200.B2	aggregate base rock	N N	
0800.A3 0800.A4	door frame roll up door	3200.B3 3200.B4	concrete paving asphalt paving	Z	
0800.A5 0800.A6	window storefront window system	3200.B5 3200.B6	concrete curb concrete mow strip		L H H
0800.A7 0800.A8	access door extruded alum. corner	3200.B7	trash enclosure		$\mathbb{R} \cong \mathbb{R}$
0800.A9	Roof hatch	3200.C1	line paint striping	ШS	$O H \square$
0900 0900.A1	FINISHES vinyl composition tile flooring and base	3200.C2	fire lane striping		
0900.A2	resilient sheet flooring and base	3200.C3 3200.D1	game line striping ada accessible car parking stall	ŠŤ	
0900.A3 0900.A4	carpet and base base	3200.D2 3200.D3	ada accessible van parking stall ada accessible ramp per civil		
0900.A5 0900.B1	ceramic tile gypsum board	3200.D4 3200.D5	truncated domes ada accessible path of travel	CONSULTANT	
0900.B2 0900.B3	wainscot vinyl wall covering	3200.D6 3200.D7	ada accessible restrooms (men's and women's) ada accessible restrooms (girl's and boy's)		
0900.B4 0900.B5	vinyl wall covering wrapped tackboard panels	3200.D8	ada accessible drinking fountain		
0900.B6	fiberglass reinforced plastic panels (FRP) acoustical wall panels	3200.E1	chain link fence .01 single 3'-0" wide swing gate		
0900.C1 0900.C2	suspended acoustical ceiling system glued or stapled on acoustical tile	3200.E2	.02 pair 6'-0" wide swing gate chain link fence with vinyl slats		
0900.D1	cement plaster wall finish .01 Expansion Screed		.01 single 3'-0" wide swing gate .02 pair 6'-0" wide swing gate		
0900.D2	.02 4" soffit vent screed exterior panel wall system	3200.E3 3200.F1	ornamental metal fence reconfigure (e) irrigation and sprinklers		
0900.D2 0900.D3	Metal Siding/Soffits	3200.F1 3200.F2	sod turf landscaping planting area - patch &		
		3200.F3	repair remove (e) trees		
		3200.F4	remove (e) ada parking symbol	PROJECT NO.	REVISIONS BY
				19-32-047 DATE	+ +
DEMO	LITION NOTES			02/20/2020	
Ŷ	MOVE RESTROOM ACCESSORIES 19 MOVE TOILET PARTITIONS 20		C. RAMP AND HANDRAILS TO REMAIN CHANICAL FOR EXHAUST FAN TO BE	DRAWN	
	MOVE PLUMBING FIXTURES	REMOVE	ED AT ROOF-CONTRACTOR TO PATCH	SLH CHECKED	+ +
5 REM	AOVE ELECTRICAL AOVE DOOR & FRAME	MATERI	OOF OPENING W/ COMPATIBLE ROOFING AL TO MAKE WATERPROOF	SLH	
(6) REM	MOVE WINDOW (21	REMOVE	E WALL AND CEILING FINISHES AS	SCALE	

- MATERIAL TO MAKE WATERPROOF (21) REMOVE WALL AND CEILING FINISHES AS REQUIRED TO INSTALL W.H. SHELF STRUCTURE
- AND PLUMBING 2 REMOVE & MODIFY (E) CEILING GRID TO ACCOMMODATE (N) WALLS THAT PASS THROUGH

SCALE

CADFILE

UPDATED

SHEET NO.

A2.1.BD

05 OF 79 SHEETS

- REMOVE WALLS SAWCUT AND REMOVE CONCRETE SLAB
- REMOVE HVAC EQUIPMENT & CONCRETE PAD

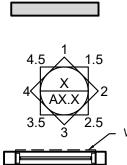
REMOVE WALL FINISHES

REMOVE INSULATION

REMOVE CEILING FINISHES

- REMOVE HVAC DUCT / SHEET METAL / PANELS
 REMOVE CHAIN LINK FENCE & GATES & REPLACE
- W/ (NEW)
- (15) SAWCUT AND REMOVE CONCRETE CURB
 (16) BEAD BLAST & REMOVE PAINT FROM (E) SLAB. IN PREPARATION FOR EPOXY FLOOR FINISH PATCH & REPAIR SLAB
- REMOVE (E) FLOOR & BASE FINISHES
- (B) (E) CHAIN LINK FENCE TO REMAIN (SHOWN WITH LIGHT LINE)

LEGEND



SEE STRUCTURAL DRAWINGS FOR STUD SIZE AND SPACING. WHERE SIZE AND SPACING NOT INDICATED, PROVIDE WOOD STUD WALL: 2X6 WOOD STUDS @ 16" O.C.

CONSECUTIVE NUMBERING CONVENTION FOR INTERIOR ROOM ELEVATIONS

Window Covering Location

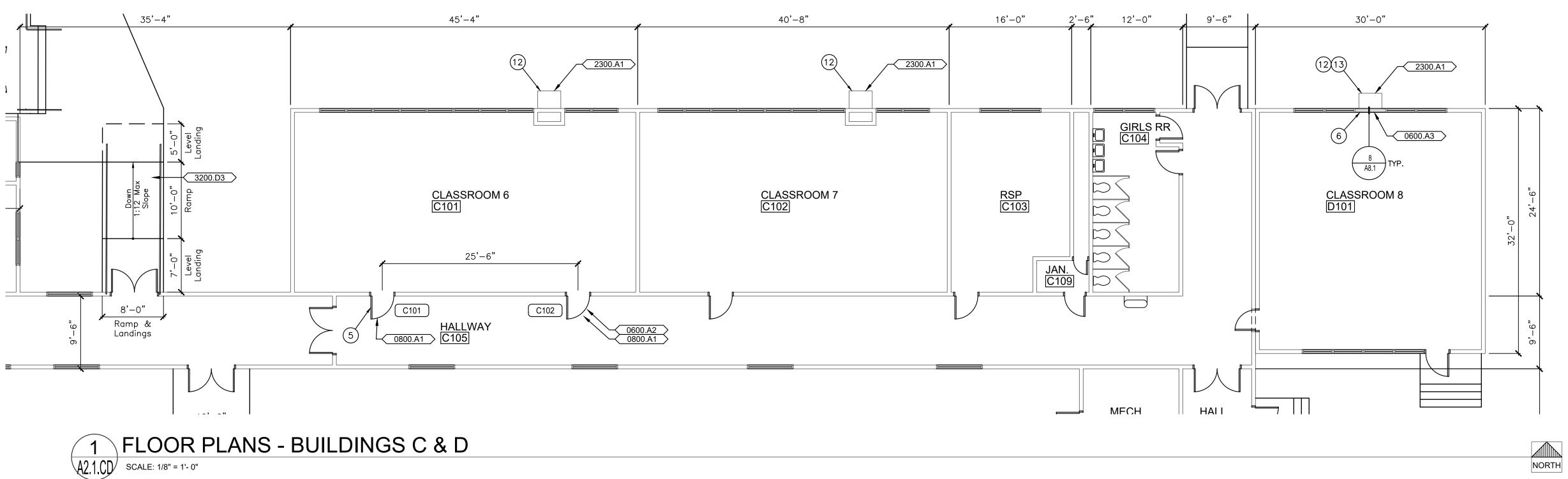
WINDOW (PLAN VIEW)

HATCH INDICATES SOUND INSULATION @ INTERIOR WALLS THERMAL BATT INSULATION @ EXTERIOR WALLS

GENERAL NOTES

- 1. ALL EXTERIOR WALLS, JANITOR ROOM AND TOILET ROOM WALLS TO HAVE 6" HIGH CONCRETE CURB. SEE DETAIL.
- 2. FIRE BLOCKING SHALL BE PROVIDED IN CONTINUOUS CONCEALED SPACES OF PLUMBING WALLS, TREMOVE (E STUD WALLS, FURRING WALLS, PARTITIONS, ETC. AT CEILING AND FLOOR LEVELS AND AT 10'-0" INTERVALS ALONG THE LENGTH AND HEIGHT OF THE WALL. OR PROVIDE COMPLETE INSULATION INFILL AT ALL CAVITIES. PROVIDE INSULATION OR FIREBLOCKING PER CBC SECTION 718.
- 3. CONNECT RAINWATER LEADERS & DOWNSPOUTS PER CIVIL AND PLUMBING.
- 4. SLOPE FLOOR IN WET AREAS TO FLOOR DRAINS. MINIMUM SLOPE SHALL BE ONE PERCENT (1%). ARROWS INDICATE SLOPE DIRECTION, RECESS SLABS AS REQUIRED TO ACCOMMODATE FINISHES AND SLOPE.

REMOVAL & REPLACEMENT OF FINISHES: ARCHITECTURAL, STRUCTURAL, MECHANICAL, PLUMBING AND ELECTRICAL DRAWINGS INDICATE PATCHING AND REPAIRING FINISHES TO MATCH EXISTING FINISHES AT SEVERAL LOCATIONS WHERE EXISTING EQUIPMENT AND COMPONENTS ARE BEING REMOVED OR MODIFIED. IT IS THE RESPONSIBILITY OF THE CONTRACTOR TO REVIEW EXISTING SITE CONDITIONS AND ALL DRAWINGS AND LOCATIONS WHERE PATCH-BACK OF FINISHES IS REQUIRED OR WHERE FINISHES WILL NEED TO BE REMOVED AND REPLACED IN ORDER TO INSTALL NEW WORK. AT THESE LOCATIONS, IT IS THE REPONSIBILITY OF THE CONTRACTOR, AS A PART OF THIS CONTRACT, TO PROVIDE ALL LABOR AND MATERIALS AS REQUIRED FOR THE REMOVAL AND REPLACEMENT OF FINISHES WITH NEW TO MATCH EXISTING FINISHES.



	DE	MOLITION NOTES	KEY	NOTES	0700.B5 0700.C1	galvanized sheet metal	2100.A2 2100.A3	marker board TV/monitor bracket
0		REMOVE RESTROOM ACCESSORIES REMOVE TOILET PARTITIONS REMOVE PLUMBING FIXTURES REMOVE ELECTRICAL REMOVE DOOR & FRAME REMOVE DOOR & FRAME REMOVE WINDOW REMOVE WALL FINISHES REMOVE CEILING FINISHES REMOVE CEILING FINISHES REMOVE INSULATION REMOVE WALLS SAWCUT AND REMOVE CONCRETE SLAB REMOVE HVAC EQUIPMENT & CONCRETE PAD REMOVE HVAC EQUIPMENT & CONCRETE PAD REMOVE HVAC DUCT / SHEET METAL / PANELS REMOVE CHAIN LINK FENCE & GATES & REPLACE W/ (NEW) SAWCUT AND REMOVE CONCRETE CURB BEAD BLAST & REMOVE PAINT FROM (E) SLAB. IN PREPARATION FOR EPOXY FLOOR FINISH PATCH & REPAIR SLAB REMOVE (E) FLOOR & BASE FINISHES (E) CHAIN LINK FENCE TO REMAIN (SHOWN WITH LIGHT LINE)	0300 0300.A1 0300.A2 0300.A4 0300.A5 0300.A6 0300.A7 0400 0400.A1 0500 0500.A2 0500.A3 0500.A3 0500.A4 0500.A5 0500.A5 0500.A5 0500.A5 0500.A1	CONCRETE concrete slab on grade - replace where removed - see plumbing and structural concrete footing expansion joint splash block Concrete curb Concrete curb, walkway, stairs & pilasters - see Civil MASONRY concrete masonry wall METALS corrugated structural metal roof deck metal pipe bollard concrete fill metal pipe bollard removable metal pipe hand rail - 1.5" diameter metal roof access ladder with security door metal louver rolled channel (structural support grid) metal furring channel WOOD, PLASTICS AND COMPOSITES wood framing - see structural	0700.C2 0700.D1 0800 0800.A1 0800.A2	 .02 parapet cap flashing .02 valley flashing .03 splash pan .05 scupper .06 gutter .07 downspout .08 22 GA GSM Siding/Soffit .09 22 GA GSM Corner Guard vent .01 roof vent - typ. of 4 .02 pipe vent .03 hot vent .04 duct penetration sealant .01 remove (e) sealant from (e) doors and (e) windows, install (n) sealant - typical .02 remove (e) sealant and backer pod from (e) concrete wall panel joint - install (n) backer rod and sealant - typical OPENINGS door and frame door 	2100.A4 2100.A5 2100.A6 2100.A7	signs: .01 parking lot en .02 ADA accessit .03 room identific .04 restroom iden .05 ADA Tactile e .06 self-illuminatin .07 assistive lister 7/A0.1 .08 Monument sig .09 Building sign .10 Dedication plation toilet partition urinal partition toilet accessories: .01 paper towel d .02 toilet paper di .03 sanitary napk .04 soap dispense .05 mirror .09 trash receptar .10 grab bar .11 toilet seat cow .13 sanitary napk
	19 20	(E) CONC. RAMP AND HANDRAILS TO REMAIN SEE MECHANICAL FOR EXHAUST FAN TO BE	0600.A1 0600.A2	wood framing - see structural frame opening for new door, window, or HVAC	0800.A3 0800.A4	door frame roll up door	2100.A8	.14 paper towel d folding panel partitio
o).	2)	REMOVED AT ROOF-CONTRACTOR TO PATCH BACK ROOF OPENING W/ COMPATIBLE ROOFING MATERIAL TO MAKE WATERPROOF REMOVE WALL AND CEILING FINISHES AS	0600.A3 0600.A4 0600.A5 0600.A6 0600.A7	in-fill frame door/window/duct opening wood beam wood post wood joist wood trusses	0800.A5 0800.A6 0800.A7 0800.A8	storefront window system access door extruded alum. corner	2100.B1 2100.B2 2100.B3 2100.B4	fire extinguisher metal shelving metal lockers knox box
	-	REQUIRED TO INSTALL W.H. SHELF STRUCTURE AND PLUMBING	0600.A8 0600.A9	2 x 4 furred wall blocking	0800.A9		2110	EQUIPMENT
	2	REMOVE & MODIFY (E) CEILING GRID TO ACCOMMODATE (N) WALLS THAT PASS THROUGH	0600.A9 0600.B1 0600.B2 0600.B3	exterior wood wall sheathing exterior wood roof sheathing wood framed and sheathed cricket - use fire retardant	0900 0900.A1 0900.A2	vinyl composition tile flooring and base resilient sheet flooring and base	2110.A1 2110.A2 2110.A3	projection screen refrigerator (owner fu microwave (owner fu
			0600.C1 0600.C2	treated wood wood trim wood hand rail	0900.A3 0900.A4 0900.A5 0900.B1	ceramic tile	2120 2120.A1 2120.A2	FURNISHINGS window coverings & plastic laminate case
			0700 0700.A1	THERMAL AND MOISTURE PROTECTION insulation .01 R-13 batt/blanket (3.5" thick)	0900.B2 0900.B3 0900.B4 0900.B5	wainscot vinyl wall covering	2120.A3	.01 ada accessibl .02 plastic lamina casework
				 .02 R-21 batt/blanket (6.5" thick) .03 R-30 batt/blanket (10" thick) .04 R-38 batt/blanket (12" thick) .05 board insulation (2" thick) .06 board insulation tapered cricket 	0900.B6 0900.C1 0900.C2 0900.D1	acoustical wall panels suspended acoustical ceiling system glued or stapled on acoustical tile cement plaster wall finish	2200 2200.A1	PLUMBING plumbing equipment .01 sink .02 lavatory
			0700.B1 0700.B2.	Standing seam roofing system single ply membrane roofing system .01 extend roofing up and over parapet wall .02 walk pad .03 Parapet Wall Flashing	0900.D2 0900.D3	.01 Expansion Screed .02 4" soffit vent screed exterior panel wall system Metal Siding/Soffits		.03 toilet .04 urinal .05 drinking fount .06 mop sink .07 water heater .08 Roof drain/Ov
			0700.B3 0700.B4	built up roofing modified bitumen roofing	2100 2100.A1	SPECIALTIES display case		.08 Roof drain/Ov .09 Floor drain - s

ard		
r bracket	2300	HVAC
	2300.A1	mechanical equipment
king lot entrance sign "towaway" per Civil	2300.A2	ceiling register
A accessible parking stall sign per Civil	2300.A3	mechanical duct
n identification sign per dtl. 2/A0.1	2300.A4	Condensate Line
room identification sign per dtl. 2/A0.1		
A Tactile exit sign per dtl. 3/A0.1	2600	ELECTRICAL
-illuminating exit	2600.A1	electrical equipment
stive listening system per detail	2600.A2	light fixture
3 7 1	2600.A3	MDF
ument sign		
ding sign	3200	SITEWORK
ication plague	3200.A1	gas meter assembly
ion	3200.A2	water meter box
tion	3200.A3	backflow assembly
ssories:	3200.A4	fire hydrant
er towel dispenser	3200.A5	trench drain
t paper dispenser	3200.A6	area drain
itary napkin dispenser	3200.A7	drain inlet
p dispenser	3200.B1	decomposed granite
or	3200.B2	aggregate base rock
h receptacle	3200.B2	concrete paving
b bar	3200.B3	asphalt paving
t seat cover	3200.B4 3200.B5	concrete curb
	3200.B5 3200.B6	
itary napkin disposal	3200.D0	concrete mow strip
er towel dispenser/ waste receptacle	2000 07	trash enclosure
nel partition	3200.B7	trash enclosure
uisher	2200 01	line neint strining
ving	3200.C1	line paint striping
ers	3200.C2	fire lane striping
	3200.C3	game line striping
	3200.D1	ada accessible car parki
NT	3200.D2	ada accessible van park
screen	3200.D3	ada accessible ramp per
r (owner furnished, contractor installed)	3200.D4	truncated domes
e (owner furnished, contractor installed)	3200.D5	ada accessible path of th
	3200.D6	ada accessible restroom
NGS	3200.D7	ada accessible restroom
verings & track	3200.D8	ada accessible drinking
inate casework	3200.E1	chain link fence
accessible sink base cabinet		.01 single 3'-0" wide s
tic laminate countertop with 4" backsplash		.02 pair 6'-0" wide sw
	3200.E2	chain link fence with ving
		.01 single 3'-0" wide s
G		.02 pair 6'-0" wide sw
equipment	3200.E3	ornamental metal fence
	3200.F1	reconfigure (e) irrigation
tory	3200.F2	sod turf landscaping pla
.t	3200.F3	remove (e) trees
al		

2600 2600.A1 2600.A2 2600.A3	ELECTRICAL electrical equipment light fixture MDF
3200	SITEWORK
3200.A1	gas meter assembly
3200.A2	water meter box
3200.A3	backflow assembly
3200.A4	fire hydrant
3200.A5 3200.A6	trench drain area drain
3200.A0 3200.A7	drain inlet
3200.R1	decomposed granite
3200.B2	aggregate base rock
3200.B3	concrete paving
3200.B4	asphalt paving
3200.B5	concrete curb
3200.B6	concrete mow strip
3200.B7	trash enclosure
3200.C1	line paint striping
3200.C2	fire lane striping
3200.C3	game line striping
3200.D1	ada accessible car parking stall
3200.D2	ada accessible van parking stall
3200.D3 3200.D4	ada accessible ramp per civil truncated domes
3200.D4 3200.D5	ada accessible path of travel
3200.D5 3200.D6	ada accessible restrooms (men's and women's)
3200.D7	ada accessible restrooms (girl's and boy's)
3200.D8	ada accessible drinking fountain
3200.E1	chain link fence
	.01 single 3'-0" wide swing gate
	.02 pair 6'-0" wide swing gate
3200.E2	chain link fence with vinyl slats
	.01 single 3'-0" wide swing gate
2200 E2	.02 pair 6'-0" wide swing gate
3200.E3 3200.F1	ornamental metal fence
3200.F1 3200.F2	reconfigure (e) irrigation and sprinklers sod turf landscaping planting area - patch & repair
3200.F3	remove (e) trees
0200.10	
3200.F4	remove (e) ada parking symbol



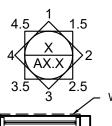
f drain/Overflow Combo Unit

or drain - slope floor to drain 2% max. slope

	ue, Suite 450 95825 2112 212
	730 Howe Avenue, Suite 450 Sacramento, CA 95825 Phone: 916.921.2112 Fax: 916.921.2212
	HENRY+ Associates Architects
★ C C- CENSE CENSE CONTEN	22525 ★ 2/31/21 ENEWAL DATE
LONSULTANT	FLOOR PLANS BUILDINGS C & D
PROJECT NO. 19-32-047 DATE 02/20/2020 DRAWN SLH	REVISIONS BY
CHECKED SLH SCALE CADFILE UPDATED SHEET NO.	
A2.	1.CD 06 OF 79 SHEETS

LEGEND

SEE STRUCTURAL DRAWINGS FOR STUD SIZE AND SPACING. WHERE SIZE AND SPACING NOT INDICATED, PROVIDE WOOD STUD WALL: 2X6 WOOD STUDS @ 16" O.C.



CONSECUTIVE NUMBERING CONVENTION FOR INTERIOR ROOM ELEVATIONS

Window Covering Location

WINDOW (PLAN VIEW) HATCH INDICATES SOUND INSULATION @ INTERIOR WALLS THERMAL BATT INSULATION @ EXTERIOR WALLS

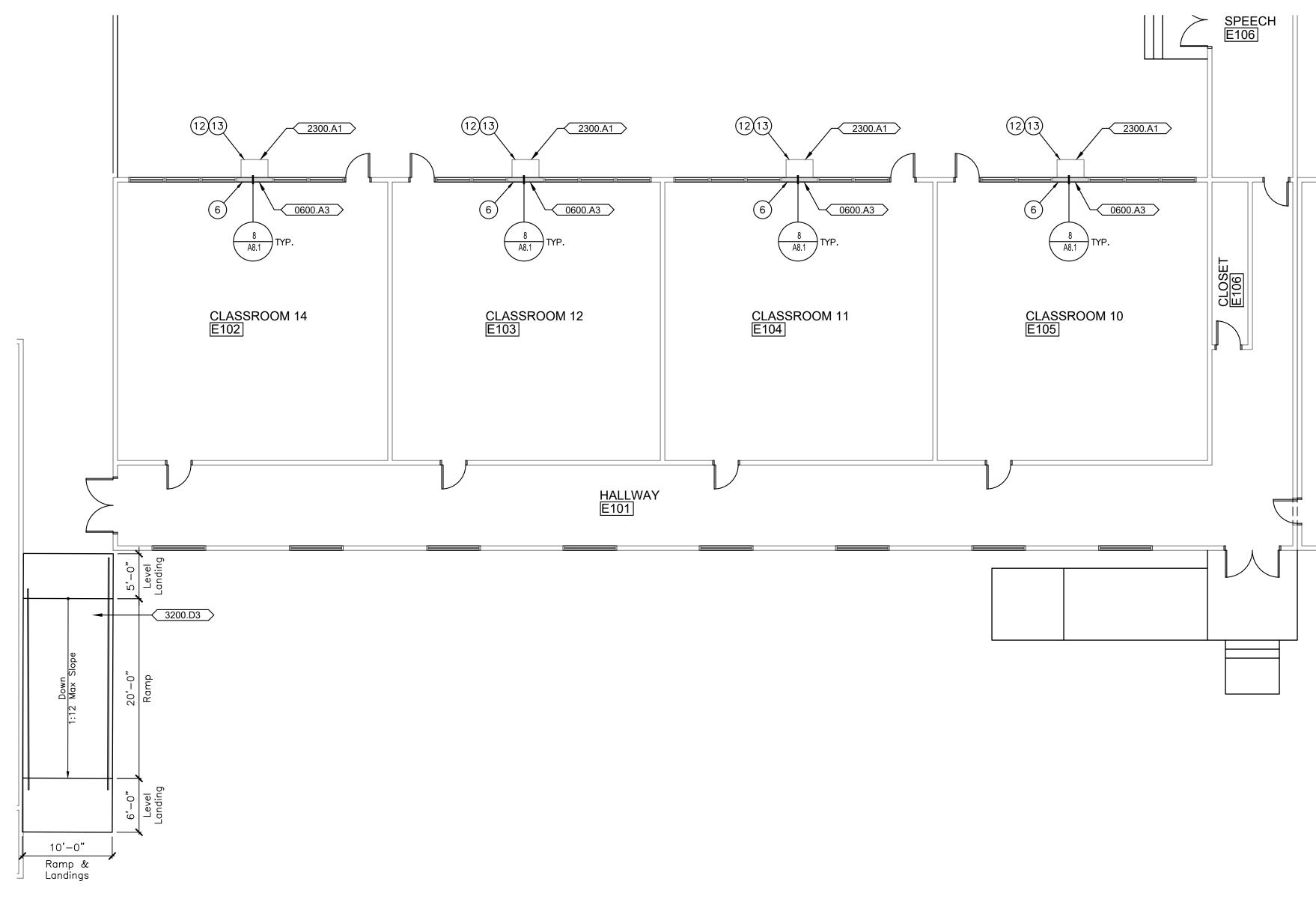
GENERAL NOTES

- 1. ALL EXTERIOR WALLS, JANITOR ROOM AND TOILET ROOM WALLS TO HAVE 6" HIGH CONCRETE CURB. SEE DETAIL.
- 2. FIRE BLOCKING SHALL BE PROVIDED IN CONTINUOUS CONCEALED SPACES OF PLUMBING WALLS STUD WALLS, FURRING WALLS, PARTITIONS, ETC. AT CEILING AND FLOOR LEVELS AND AT 10'-0" INTERVALS ALONG THE LENGTH AND HEIGHT OF THE WALL. OR PROVIDE COMPLETE INSULATION INFILL AT ALL CAVITIES. PROVIDE INSULATION OR FIREBLOCKING PER CBC SECTION 718.
- 3. CONNECT RAINWATER LEADERS & DOWNSPOUTS PER CIVIL AND PLUMBING.
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REMOVAL & REPLACEMENT OF FINISHES: ARCHITECTURAL, STRUCTURAL, MECHANICAL, PLUMBING AND ELECTRICAL DRAWINGS INDICATE PATCHING AND REPAIRING FINISHES TO MATCH EXISTING FINISHES AT SEVERAL LOCATIONS WHERE EXISTING EQUIPMENT AND COMPONENTS ARE BEING REMOVED OR MODIFIED. IT IS THE RESPONSIBILITY OF THE CONTRACTOR TO REVIEW EXISTING SITE CONDITIONS AND ALL DRAWINGS AND LOCATIONS WHERE PATCH-BACK OF FINISHES IS REQUIRED OR WHERE FINISHES WILL NEED TO BE REMOVED AND REPLACED IN ORDER TO INSTALL NEW WORK. AT THESE LOCATIONS, IT IS THE REPONSIBILITY OF THE CONTRACTOR, AS A PART OF THIS CONTRACT, TO PROVIDE ALL LABOR AND MATERIALS AS REQUIRED FOR THE REMOVAL AND

REPLACEMENT OF FINISHES WITH NEW TO MATCH EXISTING FINISHES.







N REMOVE RESTROOM ACCESSORIES 0300 REMOVE TOILET PARTITIONS 0300. REMOVE PLUMBING FIXTURES REMOVE ELECTRICAL 0300 REMOVE DOOR & FRAME 0300 0300. REMOVE WINDOW 0300. REMOVE WALL FINISHES 0300. **REMOVE CEILING FINISHES** REMOVE INSULATION 0400 REMOVE WALLS 0400 SAWCUT AND REMOVE CONCRETE SLAB REMOVE HVAC EQUIPMENT & CONCRETE PAD 050 REMOVE HVAC DUCT / SHEET METAL / PANELS 050 REMOVE CHAIN LINK FENCE & GATES & REPLACE 050 SAWCUT AND REMOVE CONCRETE CURB 0500 BEAD BLAST & REMOVE PAINT FROM (E) SLAB. IN 0500 PREPARATION FOR EPOXY FLOOR FINISH PATCH 0500 050 0500. 060 (9) (E) CONC. RAMP AND HANDRAILS TO REMAIN 060 0600 20 SEE MECHANICAL FOR EXHAUST FAN TO BE 060 REMOVED AT ROOF-CONTRACTOR TO PATCH BACK ROOF OPENING W/ COMPATIBLE ROOFING 060 MATERIAL TO MAKE WATERPROOF 060 21) REMOVE WALL AND CEILING FINISHES AS 060 REQUIRED TO INSTALL W.H. SHELF STRUCTURE 060 AND PLUMBING 060 (22) REMOVE & MODIFY (E) CEILING GRID TO 0600 ACCOMMODATE (N) WALLS THAT PASS THROUGH 0600. 060 0600 0600. 0700 0700.

	KEY	NOTES	0700.B5 0700.C1	composition shingle roofing galvanized sheet metal	2100.A2 2100.A3	marker board TV/monitor bracke
	0000	CONCRETE		.01 two piece Fry Springlok flashing system	2100.A4	signs:
	0300	CONCRETE		.02 parapet cap flashing		.01 parking lot e
	0300.A1	concrete slab on grade - replace where removed - see		.02 valley flashing		.02 ADA access
	0200 42	plumbing and structural		.03 splash pan		.03 room identif
	0300.A2	concrete footing		.05 scupper		.04 restroom ide
	0300.A4	expansion joint		.06 gutter		.05 ADA Tactile
	0300.A5	splash block		.07 downspout		.06 self-illumina
	0300.A6	Concrete curb		.08 22 GA GSM Siding/Soffit		.07 assistive list
	0300.A7	Concrete curb, walkway, stairs & pilasters - see Civil		.09 22 GA GSM Corner Guard		7/A0.1
	0400	MASONDY	0700.C2	vent		.08 Monument
	0400	MASONRY		.01 roof vent - typ. of 4		.09 Building sig
	0400.A1	concrete masonry wall		.02 pipe vent		.10 Dedication
	0500			.03 hot vent	2100.A5	toilet partition
	0500	METALS		.04 duct penetration	2100.A6	urinal partition
Έ	0500.A2	corrugated structural metal roof deck	0700.D1	sealant	2100.A7	toilet accessories:
	0500.A3 0500.A4	metal pipe bollard concrete fill		.01 remove (e) sealant from (e) doors and (e)		.01 paper towel
	0500.A4 0500.A5	metal pipe bollard removable		windows, install (n) sealant - typical		.02 toilet paper
Ν	0500.A5 0500.A6	metal pipe hand rail - 1.5" diameter metal roof access ladder with security door		.02 remove (e) sealant and backer pod from (e)		.03 sanitary nap
	0500.A0	metal louver		concrete wall panel joint - install (n) backer rod		.04 soap disper
	0500.A7 0500.B1			and sealant - typical		.05 mirror
	0500.B1	rolled channel (structural support grid) metal furring channel				.09 trash recept
	0300.BZ		0800	OPENINGS		.10 grab bar
Η	0600	WOOD, PLASTICS AND COMPOSITES	0800.A1	door and frame		.11 toilet seat c
	0600.A1	wood framing - see structural	0800.A2	door		.13 sanitary nap
	0600.A1	frame opening for new door, window, or HVAC	0800.A3	door frame		.14 paper towel
	0600.A2	in-fill frame door/window/duct opening	0800.A4	roll up door	2100.A8	folding panel parti
	0600.A3 0600.A4	wood beam	0800.A5	window	2100.B1	fire extinguisher
G	0600.A4 0600.A5	wood beam wood post	0800.A6	storefront window system	2100.B2	metal shelving
	0600.A5	wood joist	0800.A7	access door	2100.B3	metal lockers
	0600.A0	wood fuises	0800.A8	extruded alum. corner	2100.B4	knox box
Ξ	0600.A8	2 x 4 furred wall	0800.A9	Roof hatch		
	0600.A9	blocking			2110	EQUIPMENT
	0600.B1	exterior wood wall sheathing	0900	FINISHES	2110.A1	projection screen
ЗH	0600.B1	exterior wood roof sheathing	0900.A1	vinyl composition tile flooring and base	2110.A2	refrigerator (owner
	0600.B2	wood framed and sheathed cricket - use fire retardant	0900.A2	resilient sheet flooring and base	2110.A3	microwave (owner
	0000.00	treated wood	0900.A3	carpet and base	0.4.0.0	
	0600.C1	wood trim	0900.A4	base	2120	FURNISHINGS
	0600.C2	wood hand rail	0900.A5	ceramic tile	2120.A1	window coverings
	0000.02		0900.B1	gypsum board	2120.A2	plastic laminate ca
	0700	THERMAL AND MOISTURE PROTECTION	0900.B2	wainscot		.01 ada accessi
	0700.A1	insulation	0900.B3	vinyl wall covering	2120 42	.02 plastic lamir
		.01 R-13 batt/blanket (3.5" thick)	0900.B4	vinyl wall covering wrapped tackboard panels	2120.A3	casework
		.02 R-21 batt/blanket (6.5" thick)	0900.B5	fiberglass reinforced plastic panels (FRP)	2200	PLUMBING
		.03 R-30 batt/blanket (10" thick)	0900.B6	acoustical wall panels	2200 2200.A1	
		.04 R-38 batt/blanket (12" thick)	0900.C1	suspended acoustical ceiling system	2200.A1	plumbing equipme .01 sink
		.05 board insulation (2" thick)	0900.C2	glued or stapled on acoustical tile		.02 lavatory
		.06 board insulation tapered cricket	0900.D1	cement plaster wall finish .01 Expansion Screed		.02 toilet
	0700.B1	Standing seam roofing system		.01 Expansion Screed .02 4" soffit vent screed		.03 toilet
	0700.B2.	single ply membrane roofing system	0000 02			.04 drinking fou
		.01 extend roofing up and over parapet wall	0900.D2 0900.D3	exterior panel wall system Metal Siding/Soffits		.06 mop sink
		.02 walk pad	0300.03			.07 water heate
		.03 Parapet Wall Flashing	2100	SPECIALTIES		.08 Roof drain/0
	0700.B3	built up roofing	2100 2100.A1	display case		.09 Floor drain ·
	0700.B4	modified bitumen roofing	2100.71	alopidy outo		
		-				

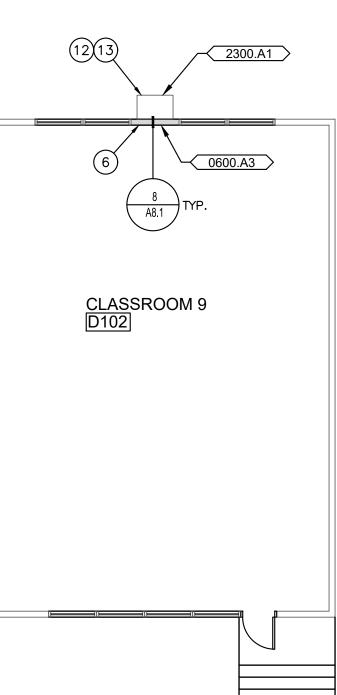
oard		
or bracket	2300	HVAC
	2300.A1	mechanical equipment
rking lot entrance sign "towaway" per Civil	2300.A2	ceiling register
OA accessible parking stall sign per Civil	2300.A3	mechanical duct
om identification sign per dtl. 2/A0.1	2300.A4	Condensate Line
stroom identification sign per dtl. 2/A0.1		
DA Tactile exit sign per dtl. 3/A0.1	2600	ELECTRICAL
If-illuminating exit	2600.A1	electrical equipment
sistive listening system per detail	2600.A2	light fixture
	2600.A3	MDF
onument sign		
ilding sign	3200	SITEWORK
dication plague	3200.A1	gas meter assembly
lition	3200.A2	water meter box
tition	3200.A3	backflow assembly
essories:	3200.A4	fire hydrant
per towel dispenser	3200.A5	trench drain
let paper dispenser	3200.A6	area drain
nitary napkin dispenser	3200.A7	drain inlet
ap dispenser	3200.B1	decomposed granite
rror	3200.B2	aggregate base rock
sh receptacle	3200.B3	concrete paving
ab bar	3200.B4	asphalt paving
let seat cover	3200.B5	concrete curb
nitary napkin disposal	3200.B6	concrete mow strip
per towel dispenser/ waste receptacle	0200.00	concrete mow strip
anel partition	3200.B7	trash enclosure
guisher	5200.D7	
-	3200.C1	line point striping
elving	3200.C1 3200.C2	line paint striping fire lane striping
kers		
	3200.C3	game line striping
	3200.D1	ada accessible car parki
ENT	3200.D2	ada accessible van park
n screen	3200.D3	ada accessible ramp per
or (owner furnished, contractor installed)	3200.D4	truncated domes
ve (owner furnished, contractor installed)	3200.D5	ada accessible path of tr
	3200.D6	ada accessible restroom
HINGS	3200.D7	ada accessible restroom
overings & track	3200.D8	ada accessible drinking
minate casework	3200.E1	chain link fence
a accessible sink base cabinet		.01 single 3'-0" wide s
astic laminate countertop with 4" backsplash		.02 pair 6'-0" wide swi
ζ	3200.E2	chain link fence with viny
		.01 single 3'-0" wide s
NG		.02 pair 6'-0" wide swi
equipment	3200.E3	ornamental metal fence
ik .	3200.F1	reconfigure (e) irrigation
vatory	3200.F2	sod turf landscaping plai
let	3200.F3	remove (e) trees
nal		
nking fountain	3200.F4	remove (e) ada parking
pp sink		
a Ann bha atan		

ELECTRICAL electrical equipment light fixture MDF SITEWORK gas meter assembly water meter box backflow assembly fire hydrant trench drain area drain drain inlet decomposed granite aggregate base rock concrete paving asphalt paving concrete curb concrete mow strip trash enclosure line paint striping fire lane striping game line striping ada accessible car parking stall ada accessible van parking stall ada accessible ramp per civil truncated domes ada accessible path of travel ada accessible restrooms (men's and women's) ada accessible restrooms (girl's and boy's) ada accessible drinking fountain chain link fence .01 single 3'-0" wide swing gate .02 pair 6'-0" wide swing gate chain link fence with vinyl slats .01 single 3'-0" wide swing gate .02 pair 6'-0" wide swing gate ornamental metal fence reconfigure (e) irrigation and sprinklers sod turf landscaping planting area - patch & repair remove (e) trees

remove (e) ada parking symbol

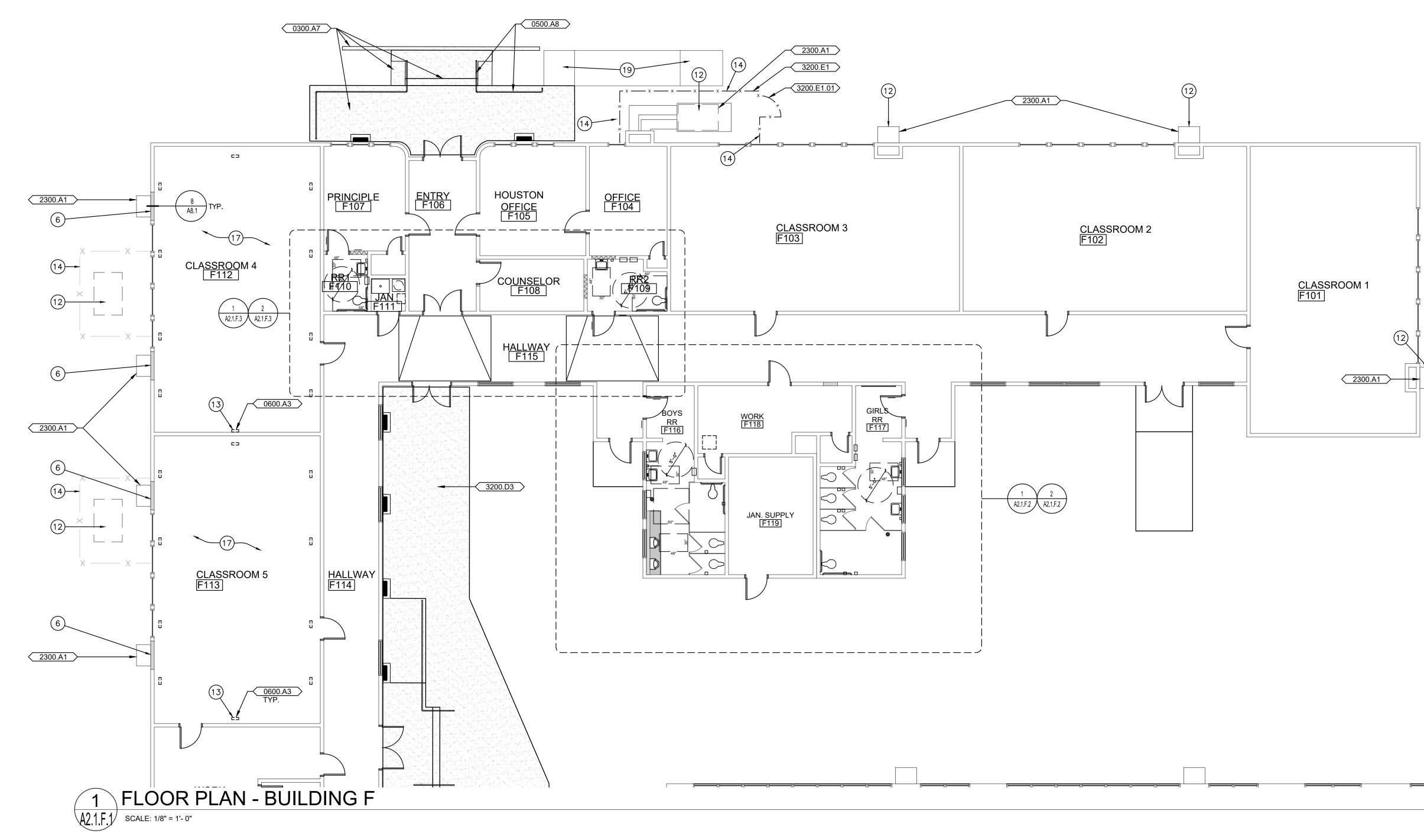
ater heater oof drain/Overflow Combo Unit

.09 Floor drain - slope floor to drain 2% max. slope



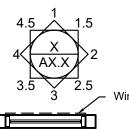
	730 Howe Avenue, Suite 450 Sacramento, CA 95825 Phone: 916.921.2112	Fax: 916.921.2212
★ C C- C FNSE C PHEN C C- C C- C T T T R C C- C C- C C- C C- C C- C C C- C C C- C C C C C C C C C C C C C C C C C C C	HENRAL POARCHINK 22525	ARCHITECTS
MODERNIZATION HOUSTON SCHOOL		BUILDINGS D & E
CONSULTANT PROJECT NO. 19-32-047 DATE 02/20/2020 DRAWN SLH CHECKED SLH SCALE	REVISIONS	BY





LEGEND

SEE STRUCTURAL DRAWINGS FOR STUD SIZE AND SPACING. WHERE SIZE AND SPACING NOT INDICATED, PROVIDE WOOD STUD WALL: 2X6 WOOD STUDS @ 16" O.C.



INTERIOR ROOM ELEVATIONS

CONSECUTIVE NUMBERING

Window Covering Location

CONVENTION FOR

WINDOW (PLAN VIEW) HATCH INDICATES SOUND INSULATION @ INTERIOR WALLS THERMAL BATT INSULATION @ EXTERIOR WALLS

GENERAL NOTES

- 1. ALL EXTERIOR WALLS, JANITOR ROOM AND TOILET ROOM WALLS TO HAVE 6" HIGH CONCRETE CURB. SEE DETAIL.
- 2. FIRE BLOCKING SHALL BE PROVIDED IN CONTINUOUS CONCEALED SPACES OF PLUMBING WALLS, STUD WALLS, FURRING WALLS, PARTITIONS, ETC. AT CEILING AND FLOOR LEVELS AND AT 10'-0" INTERVALS ALONG THE LENGTH AND HEIGHT OF THE WALL. OR PROVIDE COMPLETE INSULATION INFILL AT ALL CAVITIES. PROVIDE INSULATION OR FIREBLOCKING PER CBC SECTION 718.
- 3. CONNECT RAINWATER LEADERS & DOWNSPOUTS PER CIVIL AND PLUMBING.
- 4. SLOPE FLOOR IN WET AREAS TO FLOOR DRAINS. MINIMUM SLOPE SHALL BE ONE PERCENT (1%). ARROWS INDICATE SLOPE DIRECTION, RECESS SLABS AS REQUIRED TO ACCOMMODATE FINISHES AND SLOPE.

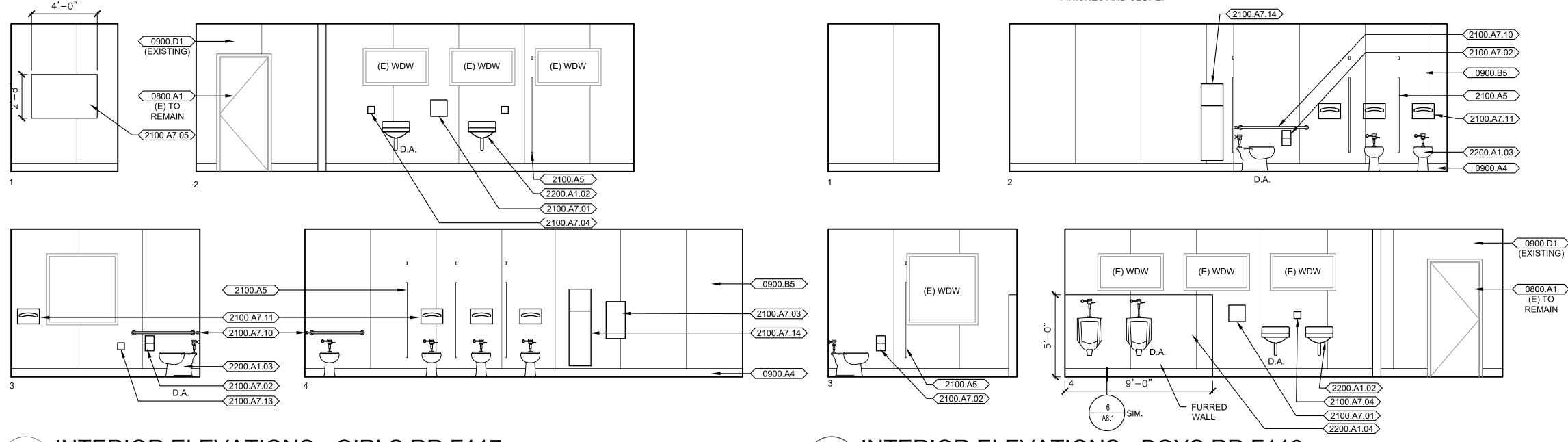
REMOVAL & REPLACEMENT OF FINISHES: ARCHITECTURAL, STRUCTURAL, MECHANICAL, PLUMBING AND ELECTRICAL DRAWINGS INDICATE PATCHING AND REPAIRING FINISHES TO MATCH EXISTING FINISHES AT SEVERAL LOCATIONS WHERE EXISTING EQUIPMENT AND COMPONENTS ARE BEING REMOVED OR MODIFIED. IT IS THE RESPONSIBILITY OF THE CONTRACTOR TO REVIEW EXISTING SITE CONDITIONS AND ALL DRAWINGS AND LOCATIONS WHERE PATCH-BACK OF FINISHES IS REQUIRED OR WHERE FINISHES WILL NEED TO BE REMOVED AND REPLACED IN ORDER TO INSTALL NEW WORK. AT THESE LOCATIONS, IT IS THE REPONSIBILITY OF THE CONTRACTOR, AS A PART OF THIS CONTRACT, TO PROVIDE ALL LABOR AND MATERIALS AS REQUIRED FOR THE REMOVAL AND REPLACEMENT OF FINISHES WITH NEW TO MATCH EXISTING FINISHES.

	KEY	NOTES	2100 2100.A1	SPECIALTIES display case		
	0300 0300.A1	CONCRETE concrete slab on grade - replace where remove	2100.A2 2100.A3	marker board TV/monitor bracket		
	0300.A2	 see plumbing and structural concrete footing 	°2100.A4	signs: .01 parking lot entrance sign "towaway" per Civil		
	0300.A4 0300.A5	expansion joint splash block		.02 ADA accessible parking stall sign per Civil		
	0300.A6 0300.A7	Concrete curb Concrete curb, walkway, stairs & pilasters - see		.03 room identification sign per dtl. 2/A0.1 .04 restroom identification sign per dtl. 2/A0.1		
		civil		.05 ADA Tactile exit sign per dtl. 3/A0.1 .06 self-illuminating exit		
	0400 0400.A1	MASONRY concrete masonry wall		.07 assistive listening system per detail 7/A0.1		
	0500	METALS		.08 Monument sign .09 Building sign .10 Dedication plague		
	0500.A2 0500.A3	corrugated structural metal roof deck metal pipe bollard concrete fill	2100.A5 2100.A6	toilet partition urinal partition		0
	0500.A4 0500.A5	metal pipe bollard removable metal pipe hand rail - 1.5" diameter	2100.A0 2100.A7	toilet accessories:		450
	0500.A6 0500.A7	metal roof access ladder with security door metal louver		.01 paper towel dispenser .02 toilet paper dispenser		uite 25 2
	0500.A8 0500.B1	Metal pipe handrails & guardrails - see civil rolled channel (structural support grid)		.03 sanitary napkin dispenser .04 soap dispenser .05 mirror		Sui 82! 12
; ,	0500.B2	metal furring channel		.09 trash receptacle .10 grab bar		- V - V
	0600 0600.A1	WOOD, PLASTICS AND COMPOSITES wood framing - see structural		.11 toilet seat cover .13 sanitary napkin disposal		Avenue o, CA 9 6.921.2 121.221
	0600.A2 0600.A3	frame opening for new door, window, or HVAC in-fill frame door/window/duct opening	2100.A8	.14 paper towel dispenser/ waste receptacle folding panel partition		1 2 C C
	0600.A4 0600.A5	wood beam wood post	2100.B1 2100.B2	fire extinguisher metal shelving		92 A
	0600.A6 0600.A7	wood joist wood trusses	2100.B3 2100.B4	metal lockers knox box		60, 0
	0600.A8 0600.A9	2 x 4 furred wall blocking	2110	EQUIPMENT		Howe rament ne: 91 916.9
	0600.B1 0600.B2	exterior wood wall sheathing exterior wood roof sheathing	2110.A1 2110.A2	projection screen refrigerator (owner furnished, contractor		730 Howe A Sacramento Phone: 916 Fax: 916.92
	0600.B3	wood framed and sheathed cricket - use fire retardant treated wood	2110.A3	installed) microwave (owner furnished, contractor		730 Hc Sacran Phone: Fax: 9
	0600.C1 0600.C2	wood trim wood hand rail		installed)		
	0700 0700.A1	THERMAL AND MOISTURE PROTECTION insulation	2120 2120.A1	FURNISHINGS window coverings & track		
	0700.A1	.01 R-13 batt/blanket (3.5" thick)	2120.A2	plastic laminate casework .01 ada accessible sink base cabinet		
		.02 R-21 batt/blanket (6.5" thick) .03 R-30 batt/blanket (10" thick) .04 R-38 batt/blanket (12" thick)	0400	.02 plastic laminate countertop with 4" backsplash		IR
		.04 R-38 batt/blanket (12" thick) .05 board insulation (2" thick) .06 board insulation tapered cricket	2120.A3	casework		
	0700.B1 0700.B2.	.06 board insulation tapered cricket Standing seam roofing system single ply membrane roofing system	2200 2200.A1	PLUMBING plumbing equipment		L E S S S S S S S S S S S S S S S S S S
	5, 00.DZ.	.01 extend roofing up and over parapet wall .02 walk pad		.01 sink .02 lavatory .03 toilet		
	0700.B3	.02 waik pad .03 Parapet Wall Flashing built up roofing		.03 toilet .04 urinal .05 drinking fountain		
	0700.B4 0700.B5	modified bitumen roofing composition shingle roofing		.05 drinking fountain .06 mop sink .07 water heater	SENSED.	ARCHIP
	0700.C1	galvanized sheet metal .01 two piece Fry Springlok flashing system		.08 Roof drain/Overflow Combo Unit .09 Floor drain - slope floor to drain 2% max.	PHEN	Ter fin
		.02 parapet cap flashing .02 valley flashing		slope	★ (⁵) c-	22525
		.03 splash pan .05 scupper	2300 2300.A1	HVAC mechanical equipment		
		.06 gutter .07 downspout	2300.A2 2300.A3	ceiling register mechanical duct		/31/21 NEWAL
		.08 22 GA GSM Siding/Soffit .09 22 GA GSM Corner Guard	2300.A4	Condensate Line	OF	CALLE
	0700.C2	vent .01 roof vent - typ. of 4	2600 2600.A1	ELECTRICAL electrical equipment		
		.02 pipe vent .03 hot vent	2600.A2 2600.A3	light fixture MDF		
	0700.D1	.04 duct penetration sealant	3200	SITEWORK		
		.01 remove (e) sealant from (e) doors and (e windows, install (n) sealant - typical	3200.A2	gas meter assembly water meter box		
		.02 remove (e) sealant and backer pod from (e) concrete wall panel joint - install (n)	3200.A4	backflow assembly fire hydrant		
	0800	backer rod and sealant - typical OPENINGS	3200.A5 3200.A6	trench drain area drain		
	0800 0800.A1 0800.A2	door and frame door	3200.A7 3200.B1	drain inlet decomposed granite		
	0800.A2 0800.A3 0800.A4	door frame roll up door	3200.B2 3200.B3	aggregate base rock concrete paving		
	0800.A5 0800.A6	window storefront window system	3200.B4 3200.B5 3200.B6	asphalt paving concrete curb concrete mow strip	- 54	
	0800.A7 0800.A8	access door extruded alum. corner	3200.B0	concrete mow strip trash enclosure	ĒĊ	
	0800.A9	Roof hatch	3200.C1	line paint striping	N N	
	0900 0900.A1	FINISHES vinyl composition tile flooring and base	3200.C2 3200.C3	fire lane striping game line striping	NZ	
	0900.A2 0900.A3	resilient sheet flooring and base carpet and base	3200.D1 3200.D2	ada accessible car parking stall ada accessible van parking stall	ZŌ	
	0900.A4 0900.A5	base ceramic tile	3200.D3 3200.D4	ada accessible ramp per civil truncated domes		$\sim \leq$
	0900.B1 0900.B2	gypsum board wainscot	3200.D5 3200.D6	ada accessible path of travel ada accessible restrooms (men's and women's)	ШS	\overline{O}
	0900.B3 0900.B4	vinyl wall covering vinyl wall covering wrapped tackboard panels	3200.D7 3200.D8	ada accessible restrooms (girl's and boy's) ada accessible drinking fountain		ŎĔ
	0900.B5 0900.B6	fiberglass reinforced plastic panels (FRP) acoustical wall panels	3200.E1	chain link fence .01 single 3'-0" wide swing gate	N ≥ 1	
	0900.C1 0900.C2	suspended acoustical ceiling system glued or stapled on acoustical tile	3200.E2	.02 pair 6'-0" wide swing gate chain link fence with vinyl slats		ш ш
	0900.D1	cement plaster wall finish .01 Expansion Screed		.01 single 3'-0" wide swing gate .02 pair 6'-0" wide swing gate	CONSULTANT	
	0900.D2 0900.D3	.02 4" soffit vent screed exterior panel wall system Metal Siding/Soffits	3200.E3 3200.F1	ornamental metal fence reconfigure (e) irrigation and sprinklers		
	0900.03	Metal Sking/Somes	3200.F2	sod turf landscaping planting area - patch & repair		
			3200.F3 3200.F4	remove (e) trees remove (e) ada parking symbol		
		DEMOLITION NOTES	0200.1			
		_				
		REMOVE RESTROOM ACC REMOVE TOILET PARTITI		S		
		 ② REMOVE TOILET PARTITI ③ REMOVE PLUMBING FIXT ④ REMOVE ELECTRICAL ⑤ REMOVE DOOR & FRAME ⑥ REMOVE WINDOW ⑦ REMOVE WALL FINISHES ⑧ REMOVE CEILING FINISH ⑨ REMOVE INSULATION ① REMOVE WALLS ① SAWCUT AND REMOVE CEINISH 	URES			
		(5) REMOVE DOOR & FRAME(6) REMOVE WINDOW			PROJECT NO.	REVISIONS BY
		 REMOVE WINDOW REMOVE WALL FINISHES 			19-32-047	
		8 REMOVE CEILING FINISHI9 REMOVE INSULATION	ES		DATE	
		(1) REMOVE WALLS(1) SAWCUT AND REMOVE C	ONCRET	E SLAB	02/20/2020 DRAWN	
		REMOVE HVAC EQUIPME REMOVE HVAC DUCT / SH			SLH	
		付 REMOVE CHAIN LINK FEN			CHECKED SLH	
		W/ (NEW) (5) SAWCUT AND REMOVE C			SCALE	
		(b) BEAD BLAST & REMOVE F PREPARATION FOR EPO>				
		& REPAIR SLAB			CADFILE	
		(E) CHAIN LINK FENCE TO			UPDATED	
		LIGHT LINE) (1) (E) CONC. RAMP AND HAI				
		SEE MECHANICAL FOR E REMOVED AT ROOF-CON	TRACTOF	R TO PATCH	SHEET NO.	
		BACK ROOF OPENING W/ MATERIAL TO MAKE WAT				, _ ,
T		(2) REMOVE WALL AND CEIL REQUIRED TO INSTALL W	ING FINIS	HES AS	A2.1	1.F.1
		AND PLUMBING (2) REMOVE & MODIFY (E) CI			_	
	NORTH	ACCOMMODATE (N) WAL				08 OF 79 SHEETS

DEMOLITION NOTES

- REMOVE RESTROOM ACCESSORIES REMOVE TOILET PARTITIONS
- REMOVE PLUMBING FIXTURES
- REMOVE ELECTRICAL
- **REMOVE DOOR & FRAME**
- REMOVE WINDOW **REMOVE WALL FINISHES**
- REMOVE CEILING FINISHES
- REMOVE INSULATION
- REMOVE WALLS SAWCUT AND REMOVE CONCRETE SLAB
- (2) REMOVE HVAC EQUIPMENT & CONCRETE PAD
- (3) REMOVE HVAC DUCT / SHEET METAL / PANELS
- (14) REMOVE CHAIN LINK FENCE & GATES & REPLACE W/ (NEW)
- (5) SAWCUT AND REMOVE CONCRETE CURB
- (6) BEAD BLAST & REMOVE PAINT FROM (E) SLAB. IN PREPARATION FOR EPOXY FLOOR FINISH PATCH & REPAIR SLAB
- 1 REMOVE (E) FLOOR & BASE FINISHES (18) (E) CHAIN LINK FENCE TO REMAIN (SHOWN WITH
- LIGHT LINE)

- (9) (E) CONC. RAMP AND HANDRAILS TO REMAIN 20 SEE MECHANICAL FOR EXHAUST FAN TO BE REMOVED AT ROOF-CONTRACTOR TO PATCH BACK ROOF OPENING W/ COMPATIBLE ROOFING MATERIAL TO MAKE WATERPROOF
- (21) REMOVE WALL AND CEILING FINISHES AS REQUIRED TO INSTALL W.H. SHELF STRUCTURE AND PLUMBING
- 22) REMOVE & MODIFY (E) CEILING GRID TO ACCOMMODATE (N) WALLS THAT PASS THROUGH



REMOVAL & REPLACEMENT OF FINISHES:

ARCHITECTURAL, STRUCTURAL, MECHANICAL, PLUMBING AND ELECTRICAL

DRAWINGS INDICATE PATCHING AND REPAIRING FINISHES TO MATCH EXISTING

PATCH-BACK OF FINISHES IS REQUIRED OR WHERE FINISHES WILL NEED TO BE

FINISHES AT SEVERAL LOCATIONS WHERE EXISTING EQUIPMENT AND COMPONENTS

ARE BEING REMOVED OR MODIFIED. IT IS THE RESPONSIBILITY OF THE CONTRACTOR

TO REVIEW EXISTING SITE CONDITIONS AND ALL DRAWINGS AND LOCATIONS WHERE

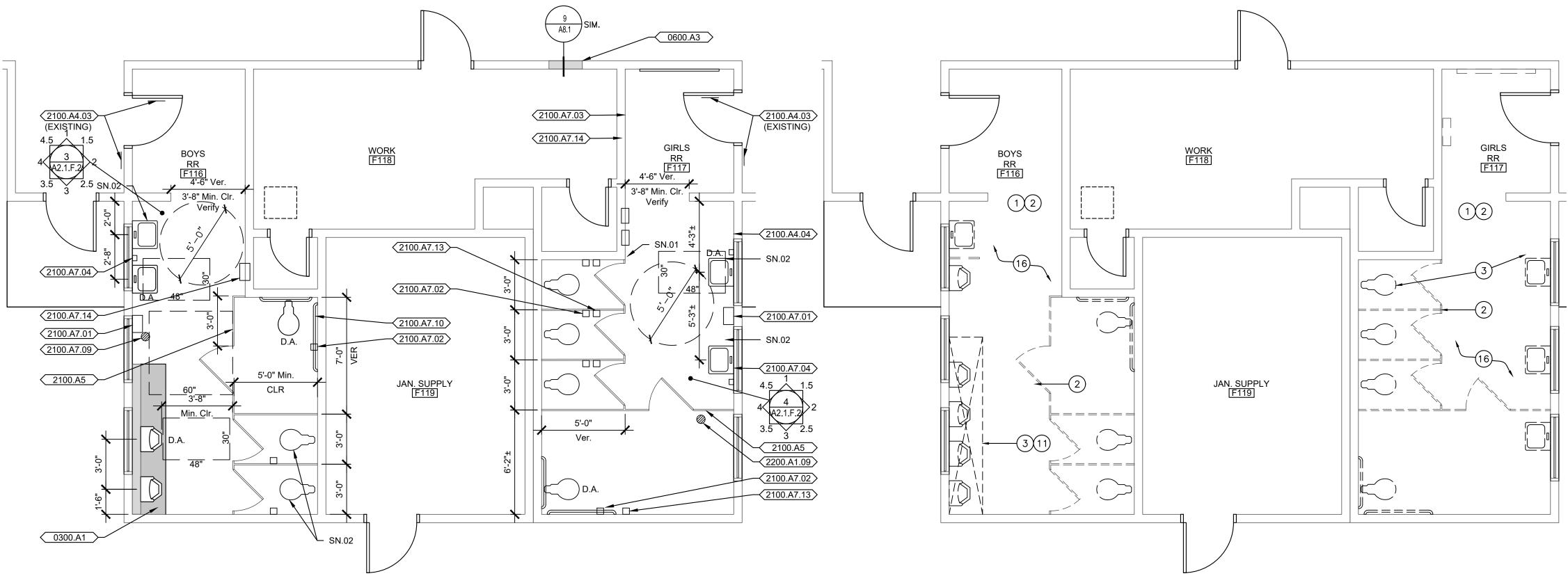
REMOVED AND REPLACED IN ORDER TO INSTALL NEW WORK. AT THESE LOCATIONS,

IT IS THE REPONSIBILITY OF THE CONTRACTOR, AS A PART OF THIS CONTRACT, TO

PROVIDE ALL LABOR AND MATERIALS AS REQUIRED FOR THE REMOVAL AND

REPLACEMENT OF FINISHES WITH NEW TO MATCH EXISTING FINISHES.

4 INTERIOR ELEVATIONS - GIRLS RR F117 A2.1.F.2 SCALE: 1/4" = 1'- 0"



ENLARGED FLOOR PLAN - BOYS RR F116 & GIRLS F117 2 ENLARG A2.1.F.2 SCALE: 1/4" = 1'- 0"

LEGEND

4.5 / 1.5 4 X AX.X 3.5 2 2

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CONSECUTIVE NUMBERING CONVENTION FOR INTERIOR ROOM ELEVATIONS

Window Covering Location WINDOW (PLAN VIEW)

STUDS @ 16" O.C.

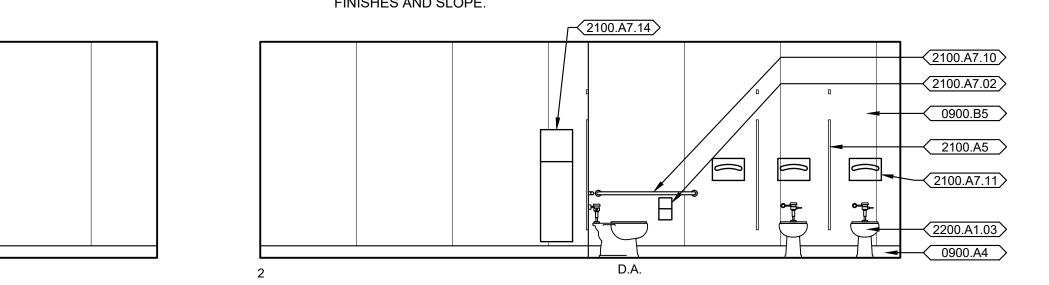
HATCH INDICATES SOUND INSULATION @ INTERIOR WALLS THERMAL BATT INSULATION @ EXTERIOR WALLS

SEE STRUCTURAL DRAWINGS FOR STUD SIZE AND SPACING. WHERE SIZE

AND SPACING NOT INDICATED, PROVIDE WOOD STUD WALL: 2X6 WOOD

GENERAL NOTES

- 1. ALL EXTERIOR WALLS, JANITOR ROOM AND TOILET ROOM WALLS TO HAVE 6" HIGH CONCRETE CURB. SEE DETAIL.
- 2. FIRE BLOCKING SHALL BE PROVIDED IN CONTINUOUS CONCEALED SPACES OF PLUMBING WALLS, STUD WALLS, FURRING WALLS, PARTITIONS, ETC. AT CEILING AND FLOOR LEVELS AND AT 10'-0" INTERVALS ALONG THE LENGTH AND HEIGHT OF THE WALL. OR PROVIDE COMPLETE INSULATION INFILL AT ALL CAVITIES. PROVIDE INSULATION OR FIREBLOCKING PER CBC SECTION 718.
- 3. CONNECT RAINWATER LEADERS & DOWNSPOUTS PER CIVIL AND PLUMBING.
- 4. SLOPE FLOOR IN WET AREAS TO FLOOR DRAINS. MINIMUM SLOPE SHALL BE ONE PERCENT (1%). ARROWS INDICATE SLOPE DIRECTION, RECESS SLABS AS REQUIRED TO ACCOMMODATE FINISHES AND SLOPE.



3 INTERIOR ELEVATIONS - BOYS RR F116 A2.1.F.2 SCALE: 1/4" = 1'- 0"

DEMOLITION PLAN - BOYS RR F116 & GIRLS F117 I DEIVICE NORTH A2.1.F.2 SCALE: 1/4" = 1'- 0"



	() OTEO	2100	SPECIALTIES			
ΚΕ١	YNOTES	2100 2100.A1 2100.A2	display case marker board			
0300 0300.A1	CONCRETE concrete slab on grade - replace where remove	2100 43	TV/monitor bracket			
0300.A2	- see plumbing and structural concrete footing	-2100.A4	signs: .01 parking lot entrance sign "towaway" per			
0300.A4	expansion joint		.02 ADA accessible parking stall sign per Civ	il		
0300.A5 0300.A6	splash block Concrete curb		.03 room identification sign per dtl. 2/A0.1.04 restroom identification sign per dtl. 2/A0.			
0300.A7	Concrete curb, walkway, stairs & pilasters - see civil		.05 ADA Tactile exit sign per dtl. 3/A0.1 .06 self-illuminating exit			
0400	MASONRY		.07 assistive listening system per detail			
0400.A1	concrete masonry wall		7/A0.1 .08 Monument sign			
0500	METALS		.09 Building sign .10 Dedication plague		450	
0500.A2 0500.A3	corrugated structural metal roof deck metal pipe bollard concrete fill	2100.A5 2100.A6	toilet partition urinal partition			
0500.A4 0500.A5	metal pipe bollard removable metal pipe hand rail - 1.5" diameter	2100.A7	toilet accessories:		uite 25 2	
0500.A6 0500.A7	metal roof access ladder with security door metal louver		.01 paper towel dispenser .02 toilet paper dispenser		Su 82(
0500.A8	Metal pipe handrails & guardrails - see civil		.03 sanitary napkin dispenser .04 soap dispenser		- Q -	2
0500.B1 0500.B2	rolled channel (structural support grid) metal furring channel		.05 mirror .09 trash receptacle		1.2	21
0600	WOOD, PLASTICS AND COMPOSITES		.10 grab bar .11 toilet seat cover		Avenue o, CA 9 6.921.2	1.2
0600.A1 0600.A2	wood framing - see structural frame opening for new door, window, or HVAC		.13 sanitary napkin disposal		16, A	92
0600.A3	in-fill frame door/window/duct opening	2100.A8	.14 paper towel dispenser/ waste receptacle folding panel partition		Howe ament ne: 91	6.9
0600.A4 0600.A5	wood beam wood post	2100.B1 2100.B2	fire extinguisher metal shelving			91
0600.A6 0600.A7	wood joist wood trusses	2100.B3 2100.B4	metal lockers knox box		0 Hc crar one	
0600.A8 0600.A9	2 x 4 furred wall blocking	2110	EQUIPMENT		ъ a ч	ax
0600.B1 0600.B2	exterior wood wall sheathing exterior wood roof sheathing	2110.A1	projection screen		г о ц	LL_
0600.B2	wood framed and sheathed cricket - use fire	2110.A2	refrigerator (owner furnished, contractor installed)			
0600.C1	retardant treated wood wood trim	2110.A3	microwave (owner furnished, contractor installed)		₩ + S ÷	12
0600.C2	wood hand rail	2120	FURNISHINGS		AT Y	ЕÜ
0700 0700.A1	THERMAL AND MOISTURE PROTECTION insulation	2120.A1	window coverings & track			Ξ
0700.A1	.01 R-13 batt/blanket (3.5" thick)	2120.A2	plastic laminate casework .01 ada accessible sink base cabinet			CF
	.02 R-21 batt/blanket (6.5" thick) .03 R-30 batt/blanket (10" thick)		.02 plastic laminate countertop with 4" backsplash		ASH /	AK
	.04 R-38 batt/blanket (12" thick) .05 board insulation (2" thick)	2120.A3	casework			
0700.B1	.06 board insulation tapered cricket Standing seam roofing system	2200	PLUMBING		AP	
0700.B1	single ply membrane roofing system	2200.A1	plumbing equipment .01 sink	SENSED	- CHIP	
>	.01 extend roofing up and over parapet wall .02 walk pad		.02 lavatory .03 toilet	L'ant		
0700.B3	.03 Parapet Wall Flashing built up roofing		.04 urinal	★ (⁵) c-2	2525	
0700.B4	modified bitumen roofing composition shingle roofing		.06 mop sink			
0700.B3	galvanized sheet metal		.07 water heater .08 Roof drain/Overflow Combo Unit		<u>31/21</u> IEWAL	
	.01 two piece Fry Springlok flashing system .02 parapet cap flashing		.09 Floor drain - slope floor to drain 2% max. slope	OF	CALLE	
	.02 valley flashing .03 splash pan	2300	HVAC			
	.05 scupper .06 gutter	2300.A1 2300.A2	mechanical equipment			
	.07 downspout	2300.A3	ceiling register mechanical duct		S	
	.08 22 GA GSM Siding/Soffit .09 22 GA GSM Corner Guard	2300.A4	Condensate Line		Ž	
0700.C2	vent .01 roof vent - typ. of 4	2600 2600.A1	ELECTRICAL electrical equipment		A N	
	.02 pipe vent .03 hot vent	2600.A2 2600.A3	light fixture MDF		ے ک	
0700.D1	.04 duct penetration sealant				щО	
0700.01	.01 remove (e) sealant from (e) doors and (e		SITEWORK gas meter assembly		R R E	
	.02 windows, install (n) sealant - typical .02 remove (e) sealant and backer pod from	3200.A2 3200.A3	water meter box backflow assembly		2 A	
	(e) concrete wall panel joint - install (n) backer rod and sealant - typical	3200.A4 3200.A5	fire hydrant trench drain		O >	
0800	OPENINGS	3200.A6	area drain	Η Η O	교믹	
0800.A1	door and frame	3200.A7 3200.B1	drain inlet decomposed granite	AZ N		L
0800.A2 0800.A3	door door frame	3200.B2 3200.B3	aggregate base rock concrete paving			n
0800.A4 0800.A5	roll up door window	3200.B4 3200.B5	asphalt paving concrete curb		50	
0800.A6 0800.A7	storefront window system access door	3200.B6	concrete mow strip			
0800.A8	extruded alum. corner	3200.B7	trash enclosure	– ШS	₹Ë,	
0800.A9	Roof hatch	3200.C1	line paint striping	100	╡╙┇	
0900 0900.A1	FINISHES vinyl composition tile flooring and base	3200.C2 3200.C3	fire lane striping game line striping	I ŽI	<u> </u>	ר
0900.A2 0900.A3	resilient sheet flooring and base carpet and base	3200.D1	ada accessible car parking stall			
0900.A4	base	3200.D2 3200.D3	ada accessible van parking stall ada accessible ramp per civil	CONSULTANT		
0900.A5 0900.B1	ceramic tile gypsum board	3200.D4 3200.D5	truncated domes ada accessible path of travel			
0900.B2 0900.B3	wainscot vinyl wall covering	3200.D6 3200.D7	ada accessible restrooms (men's and women's ada accessible restrooms (girl's and boy's)			
0300.00	vinyl wall covering wrapped tackboard panels	3200.D8	ada accessible drinking fountain			
0900.B4	fiberalese as inferred a lestic as a le (CDD)		chain link fence			
0900.B4 0900.B5 0900.B6	fiberglass reinforced plastic panels (FRP) acoustical wall panels	3200.E1	.01 single 3'-0" wide swing gate			
0900.B4 0900.B5			.02 pair 6'-0" wide swing gate			
0900.B4 0900.B5 0900.B6 0900.C1	acoustical wall panels suspended acoustical ceiling system glued or stapled on acoustical tile cement plaster wall finish	3200.E1	.02 pair 6'-0" wide swing gate chain link fence with vinyl slats .01 single 3'-0" wide swing gate			
0900.B4 0900.B5 0900.C1 0900.C2 0900.D1	acoustical wall panels suspended acoustical ceiling system glued or stapled on acoustical tile cement plaster wall finish .01 Expansion Screed .02 4" soffit vent screed	3200.E2 3200.E3	 .02 pair 6'-0" wide swing gate chain link fence with vinyl slats .01 single 3'-0" wide swing gate .02 pair 6'-0" wide swing gate ornamental metal fence 			
0900.B4 0900.B5 0900.B6 0900.C1 0900.C2	acoustical wall panels suspended acoustical ceiling system glued or stapled on acoustical tile cement plaster wall finish .01 Expansion Screed	3200.E2	 .02 pair 6'-0" wide swing gate chain link fence with vinyl slats .01 single 3'-0" wide swing gate .02 pair 6'-0" wide swing gate .02 pair 6'-0" wide swing gate ornamental metal fence reconfigure (e) irrigation and sprinklers sod turf landscaping planting area - patch & 			
0900.B4 0900.B5 0900.C1 0900.C2 0900.D1	acoustical wall panels suspended acoustical ceiling system glued or stapled on acoustical tile cement plaster wall finish .01 Expansion Screed .02 4" soffit vent screed exterior panel wall system	3200.E2 3200.E3 3200.F1	 .02 pair 6'-0" wide swing gate chain link fence with vinyl slats .01 single 3'-0" wide swing gate .02 pair 6'-0" wide swing gate ornamental metal fence reconfigure (e) irrigation and sprinklers 	PROJECT NO.	REVISIONS	ВҮ
0900.B4 0900.B5 0900.C1 0900.C2 0900.D1	acoustical wall panels suspended acoustical ceiling system glued or stapled on acoustical tile cement plaster wall finish .01 Expansion Screed .02 4" soffit vent screed exterior panel wall system	3200.E2 3200.E3 3200.F1 3200.F2	 .02 pair 6'-0" wide swing gate chain link fence with vinyl slats .01 single 3'-0" wide swing gate .02 pair 6'-0" wide swing gate .02 pair 6'-0" wide swing gate ornamental metal fence reconfigure (e) irrigation and sprinklers sod turf landscaping planting area - patch & repair 	PROJECT NO. 19-32-047	REVISIONS	BY

SHEET NOTES ALIGNED PARTITION W/ FACE OF WALL (N) PLUMBING FIXTURE TO REPLACE (E) FIXTURE @ SAME LOCATION SN.02

A2.1.F.2 09 OF 79 SHEETS

DRAWN SLH

CHECKED SLH

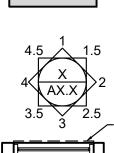
SCALE

CADFILE

UPDATED

SHEET NO.





STUDS @ 16" O.C. CONSECUTIVE NUMBERING CONVENTION FOR INTERIOR ROOM ELEVATIONS

Window Covering Location

WINDOW (PLAN VIEW)

HATCH INDICATES SOUND INSULATION @ INTERIOR WALLS THERMAL BATT INSULATION @ EXTERIOR WALLS

SEE STRUCTURAL DRAWINGS FOR STUD SIZE AND SPACING. WHERE SIZE

AND SPACING NOT INDICATED, PROVIDE WOOD STUD WALL: 2X6 WOOD

GENERAL NOTES

REMOVAL & REPLACEMENT OF FINISHES:

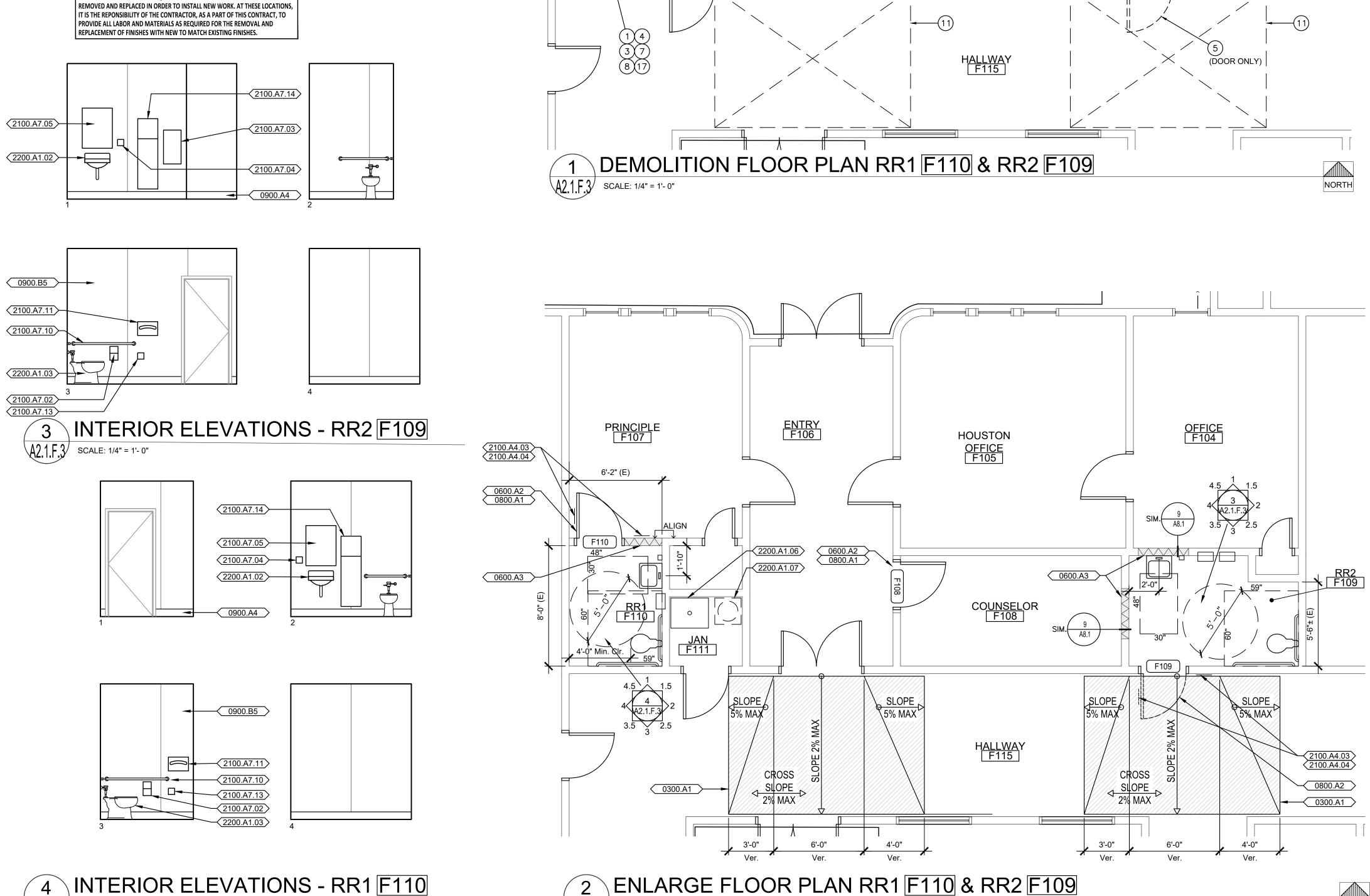
ARCHITECTURAL, STRUCTURAL, MECHANICAL, PLUMBING AND ELECTRICAL

DRAWINGS INDICATE PATCHING AND REPAIRING FINISHES TO MATCH EXISTING

FINISHES AT SEVERAL LOCATIONS WHERE EXISTING EQUIPMENT AND COMPONENT

ARE BEING REMOVED OR MODIFIED. IT IS THE RESPONSIBILITY OF THE CONTRACTOF TO REVIEW EXISTING SITE CONDITIONS AND ALL DRAWINGS AND LOCATIONS WHERE PATCH-BACK OF FINISHES IS REQUIRED OR WHERE FINISHES WILL NEED TO BE

- 1. ALL EXTERIOR WALLS, JANITOR ROOM AND TOILET ROOM WALLS TO HAVE 6" HIGH CONCRETE CURB. SEE DETAIL.
- 2. FIRE BLOCKING SHALL BE PROVIDED IN CONTINUOUS CONCEALED SPACES OF PLUMBING WALLS, STUD WALLS, FURRING WALLS, PARTITIONS, ETC. AT CEILING AND FLOOR LEVELS AND AT 10'-0" INTERVALS ALONG THE LENGTH AND HEIGHT OF THE WALL. OR PROVIDE COMPLETE INSULATION INFILL AT ALL CAVITIES. PROVIDE INSULATION OR FIREBLOCKING PER CBC SECTION 718.
- 3. CONNECT RAINWATER LEADERS & DOWNSPOUTS PER CIVIL AND PLUMBING.
- 4. SLOPE FLOOR IN WET AREAS TO FLOOR DRAINS. MINIMUM SLOPE SHALL BE ONE PERCENT (1%). ARROWS INDICATE SLOPE DIRECTION, RECESS SLABS AS REQUIRED TO ACCOMMODATE FINISHES AND SLOPE.



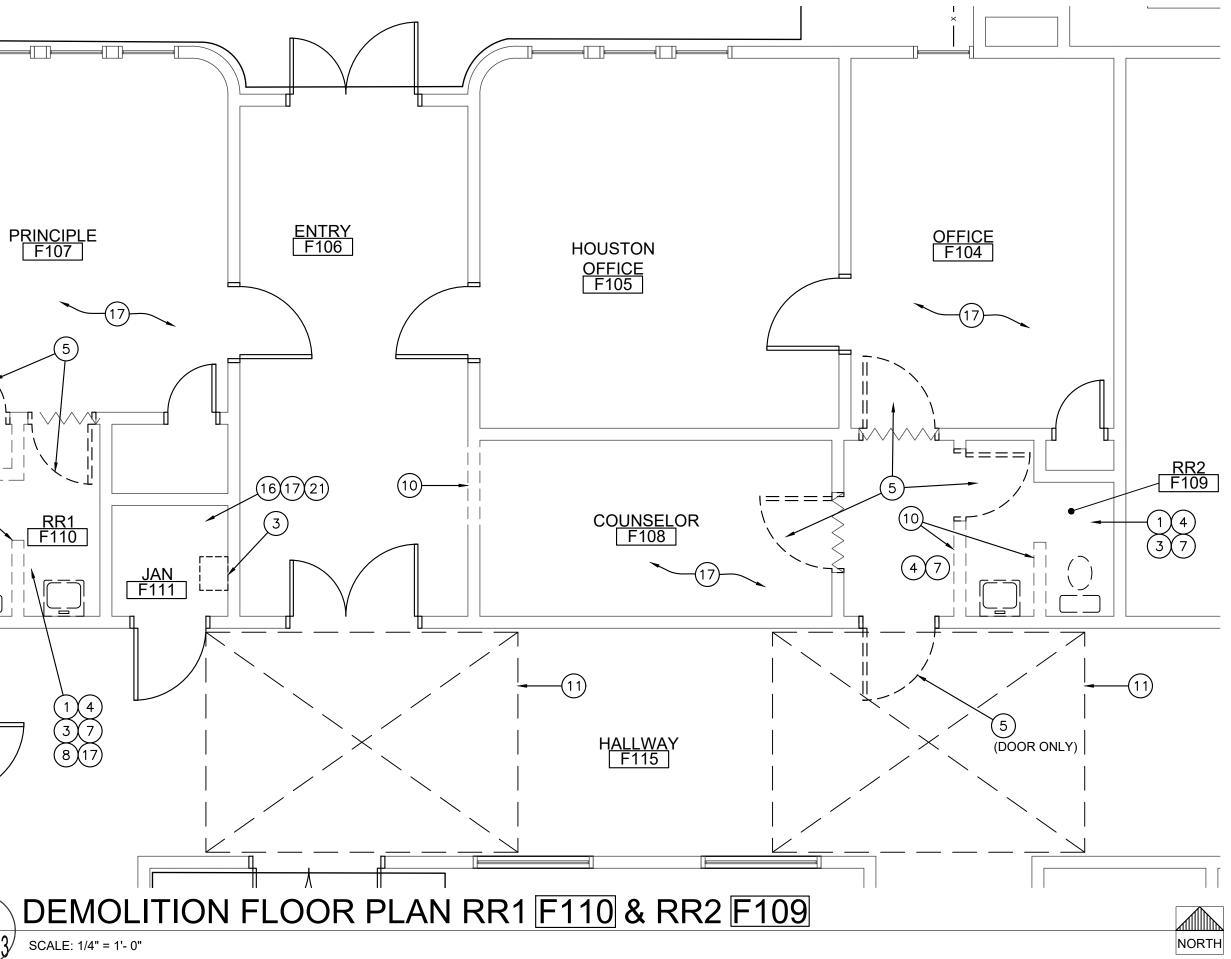
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2 A2.1.F.3 SCALE: 1/4" = 1'- 0"



KEY	NOTES	2100 2100.A1	SPECIALTIES display case		
0300	CONCRETE	2100.A2 2100.A3	marker board TV/monitor bracket		
0300.A1	concrete slab on grade - replace where remove - see plumbing and structural	^{ed} 2100.A4	signs: .01 parking lot entrance sign "towaway" per		
0300.A2 0300.A4	concrete footing		Civil		
0300.A5	expansion joint splash block		.02 ADA accessible parking stall sign per Civil .03 room identification sign per dtl. 2/A0.1		
0300.A6 0300.A7	Concrete curb Concrete curb, walkway, stairs & pilasters - see	9	.04 restroom identification sign per dtl. 2/A0.1 .05 ADA Tactile exit sign per dtl. 3/A0.1		
	civil		.06 self-illuminating exit		
0400	MASONRY		.07 assistive listening system per detail 7/A0.1		
0400.A1	concrete masonry wall		.08 Monument sign		
0500 0500.A2	METALS		.09 Building sign .10 Dedication plague		450
0500.A3	corrugated structural metal roof deck metal pipe bollard concrete fill	2100.A5 2100.A6	toilet partition urinal partition		4
0500.A4 0500.A5	metal pipe bollard removable metal pipe hand rail - 1.5" diameter	2100.A7	toilet accessories:		uite 25 2
0500.A6	metal roof access ladder with security door		.01 paper towel dispenser .02 toilet paper dispenser		Su 82 12
0500.A7 0500.A8	metal louver Metal pipe handrails & guardrails - see civil		.03 sanitary napkin dispenser .04 soap dispenser		N 7 Q -
0500.B1 0500.B2	rolled channel (structural support grid) metal furring channel		.05 mirror		ue 4 9 1.2 213
	-		.09 trash receptacle .10 grab bar		7 0 C
0600 0600.A1	WOOD, PLASTICS AND COMPOSITES wood framing - see structural		.11 toilet seat cover .13 sanitary napkin disposal		Avenue o, CA 9 6 921 2 21 2213
0600.A2 0600.A3	frame opening for new door, window, or HVAC		.14 paper towel dispenser/ waste receptacle		
0600.A4	in-fill frame door/window/duct opening wood beam	2100.A8 2100.B1	folding panel partition fire extinguisher		Howe "amen" ne: 91 916.(
0600.A5 0600.A6	wood post wood joist	2100.B2	metal shelving		Hc an 9
0600.A7	wood trusses	2100.B3 2100.B4	metal lockers knox box		30 F acra hon ax:
0600.A8 0600.A9	2 x 4 furred wall blocking	2110	EQUIPMENT		73(Sa Ph
0600.B1 0600.B2	exterior wood wall sheathing exterior wood roof sheathing	2110.A1	projection screen		
0600.B2	wood framed and sheathed cricket - use fire	2110.A2	refrigerator (owner furnished, contractor installed)		
0600.C1	retardant treated wood wood trim	2110.A3	microwave (owner furnished, contractor		ES +
0600.C2	wood hand rail		installed)		AT ~ ~
0700	THERMAL AND MOISTURE PROTECTION	2120 2120.A1	FURNISHINGS window coverings & track		755
0700.A1	insulation .01 R-13 batt/blanket (3.5" thick)	2120.A2	plastic laminate casework		
	.02 R-21 batt/blanket (6.5" thick)		.01 ada accessible sink base cabinet .02 plastic laminate countertop with 4"		AR AL
	.03 R-30 batt/blanket (10" thick) .04 R-38 batt/blanket (12" thick)	2120.A3	backsplash casework		
	.05 board insulation (2" thick) .06 board insulation tapered cricket				
0700.B1	Standing seam roofing system	2200 2200.A1	PLUMBING plumbing equipment	NSED	ARCHIN
0700.B2.	single ply membrane roofing system .01 extend roofing up and over parapet wall		.01 sink .02 lavatory	CENTEN	4 Antes
	.02 walk pad		.03 toilet		
0700.B3	.03 Parapet Wall Flashing built up roofing		.04 urinal .05 drinking fountain	(★(∽ c-2	2525 🏹 🛧
0700.B4 0700.B5	modified bitumen roofing composition shingle roofing		.06 mop sink	\v_\12/3	31/21
0700.D3	galvanized sheet metal		.07 water heater .08 Roof drain/Overflow Combo Unit		
	.01 two piece Fry Springlok flashing system .02 parapet cap flashing		.09 Floor drain - slope floor to drain 2% max. slope	OF	CALIFO
	.02 valley flashing				
	.03 splash pan .05 scupper	2300 2300.A1	HVAC mechanical equipment		
	.06 gutter .07 downspout	2300.A2 2300.A3	ceiling register mechanical duct		(0
	.08 22 GA GSM Siding/Soffit	2300.A3 2300.A4	Condensate Line		
0700.C2	.09 22 GA GSM Corner Guard vent	2600	ELECTRICAL		20
	.01 roof vent - typ. of 4 .02 pipe vent	2600.A1	electrical equipment		N S N
	.03 hot vent	2600.A2 2600.A3	light fixture MDF		
0700.D1	.04 duct penetration sealant	3200	SITEWORK		\sim
	.01 remove (e) sealant from (e) doors and (e windows, install (n) sealant - typical	e)3200.A1	gas meter assembly		5 F
	.02 remove (e) sealant and backer pod from		water meter box backflow assembly	ライ	DCA/
	(e) concrete wall panel joint - install (n) backer rod and sealant - typical	3200.A4 3200.A5	fire hydrant trench drain	「下六	
0000	OPENINGS	3200.A6	area drain		
0800 0800.A1	door and frame	3200.A7 3200.B1	drain inlet decomposed granite	A S	$\frown \square$ \square
0800.A2 0800.A3	door door frame	3200.B2 3200.B3	aggregate base rock concrete paving		
0800.A4	roll up door	3200.B4	asphalt paving		
0800.A5 0800.A6	window storefront window system	3200.B5 3200.B6	concrete curb concrete mow strip		
0800.A7 0800.A8	access door extruded alum. corner			ШS	H R O
0800.A9	Roof hatch	3200.B7	trash enclosure		レモー
0900	FINISHES	3200.C1 3200.C2	line paint striping fire lane striping	~ ~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~	Z与つ
0900.A1 0900.A2	vinyl composition tile flooring and base resilient sheet flooring and base	3200.C3 3200.D1	game line striping ada accessible car parking stall		Ш́ — Ш
0900.A3	carpet and base	3200.D2	ada accessible van parking stall		
0900.A4 0900.A5	base ceramic tile	3200.D3 3200.D4	ada accessible ramp per civil truncated domes	CONSULTANT	
0900.B1 0900.B2	gypsum board wainscot	3200.D5	ada accessible path of travel		
0900.B3	vinyl wall covering	3200.D6 3200.D7	ada accessible restrooms (men's and women's) ada accessible restrooms (girl's and boy's)		
0900.B4 0900.B5	vinyl wall covering wrapped tackboard panels fiberglass reinforced plastic panels (FRP)	3200.D8 3200.E1	ada accessible drinking fountain chain link fence		
0900.B6 0900.C1	acoustical wall panels suspended acoustical ceiling system		.01 single 3'-0" wide swing gate		
0900.C2	glued or stapled on acoustical tile	3200.E2	.02 pair 6'-0" wide swing gate chain link fence with vinyl slats		
0900.D1	cement plaster wall finish .01 Expansion Screed		.01 single 3'-0" wide swing gate .02 pair 6'-0" wide swing gate		
0900.D2	.02 4" soffit vent screed exterior panel wall system	3200.E3	ornamental metal fence		
0900.D2 0900.D3	Metal Siding/Soffits	3200.F1 3200.F2	reconfigure (e) irrigation and sprinklers sod turf landscaping planting area - patch &		
		3200.F3	repair remove (e) trees	PROJECT NO.	REVISIONS BY
		3200.F4		19-32-047	
		JZUU.F4	remove (e) ada parking symbol	DATE	
DEMO	LITION NOTES			02/20/2020	<u> </u>
	MOVE RESTROOM ACCESSORIES		IC. RAMP AND HANDRAILS TO REMAIN	DRAWN SLH	
<u> </u>	MOVE TOILET PARTITIONS	ŚÉE ME	CHANICAL FOR EXHAUST FAN TO BE	CHECKED	
③ RE ④ ₽⊑	MOVE PLUMBING FIXTURES MOVE ELECTRICAL		ED AT ROOF-CONTRACTOR TO PATCH OOF OPENING W/ COMPATIBLE ROOFING	SLH	
§ RE	MOVE DOOR & FRAME	MATER	AL TO MAKE WATERPROOF	SCALE	
¥	MOVE WINDOW 은 MOVE WALL FINISHES	/	E WALL AND CEILING FINISHES AS ED TO INSTALL W.H. SHELF STRUCTURE		
(8) RE	MOVE CEILING FINISHES	AND PL	UMBING E & MODIFY (E) CEILING GRID TO	CADFILE	
(9) RE	MOVE INSULATION		E & MODIFY (E) CEILING GRID TO MODATE (N) WALLS THAT PASS THROUGH	UPDATED	
🝈 RE	MOVE WALLS WCUT AND REMOVE CONCRETE SLAB				

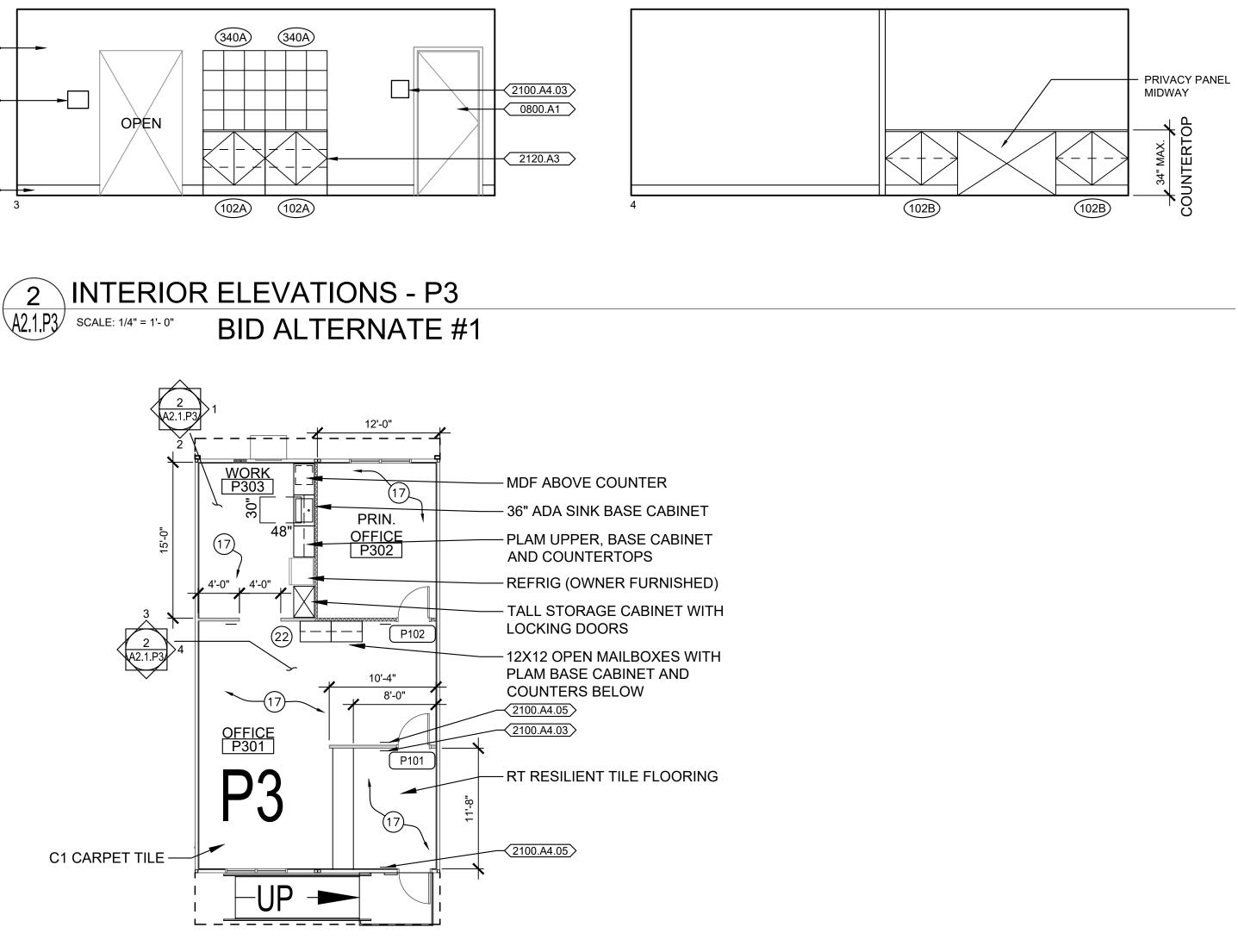
SHEET NO.

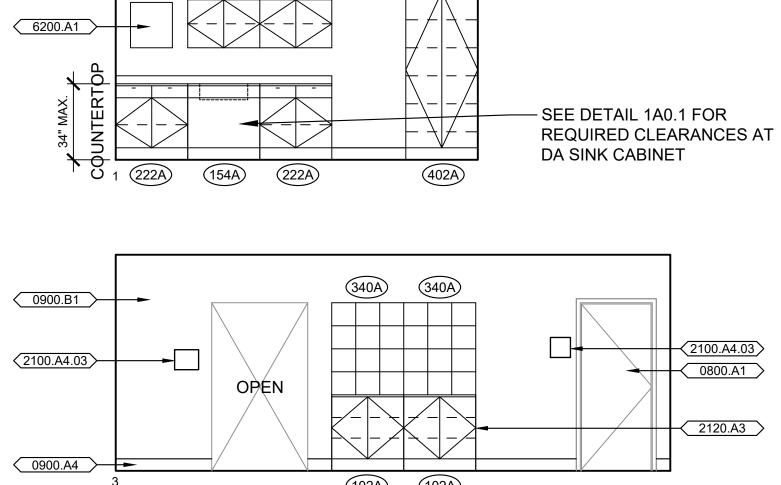
A2.1.F.3

10 OF 79 SHEETS

- SAWCUT AND REMOVE CONCRETE SLAB
- (12) REMOVE HVAC EQUIPMENT & CONCRETE PAD
- REMOVE HVAC DUCT / SHEET METAL / PANELS (14) REMOVE CHAIN LINK FENCE & GATES & REPLACE
- W/ (NEW) (15) SAWCUT AND REMOVE CONCRETE CURB
 (16) BEAD BLAST & REMOVE PAINT FROM (E) SLAB. IN PREPARATION FOR EPOXY FLOOR FINISH PATCH
- & REPAIR SLAB
 REMOVE (E) FLOOR & BASE FINISHES
 (E) CHAIN LINK FENCE TO REMAIN (SHOWN WITH LIGHT LINE)

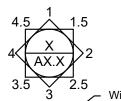
FLOOR PLAN - BUILDING P3 1 A2.1.P3 SCALE: 1/8" = 1'- 0" BID ALTERNATE #1





LEGEND

SEE STRUCTURAL DRAWINGS FOR STUD SIZE AND SPACING. WHERE SIZE AND SPACING NOT INDICATED, PROVIDE WOOD STUD WALL: 2X6 WOOD STUDS @ 16" O.C.



CONSECUTIVE NUMBERING CONVENTION FOR

INTERIOR ROOM ELEVATIONS

Window Covering Location

WINDOW (PLAN VIEW)

HATCH INDICATES SOUND INSULATION @ INTERIOR WALLS THERMAL BATT INSULATION @ EXTERIOR WALLS

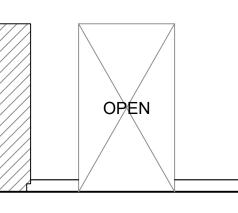
GENERAL NOTES

- 1. ALL EXTERIOR WALLS, JANITOR ROOM AND TOILET ROOM WALLS TO HAVE 6" HIGH CONCRETE CURB. SEE DETAIL.
- 2. FIRE BLOCKING SHALL BE PROVIDED IN CONTINUOUS CONCEALED SPACES OF PLUMBING WALLS, STUD WALLS, FURRING WALLS, PARTITIONS, ETC. AT CEILING AND FLOOR LEVELS AND AT 10'-0" INTERVALS ALONG THE LENGTH AND HEIGHT OF THE WALL. OR PROVIDE COMPLETE INSULATION INFILL AT ALL CAVITIES. PROVIDE INSULATION OR FIREBLOCKING PER CBC SECTION 718.
- 3. CONNECT RAINWATER LEADERS & DOWNSPOUTS PER CIVIL AND PLUMBING.
- 4. SLOPE FLOOR IN WET AREAS TO FLOOR DRAINS. MINIMUM SLOPE SHALL BE ONE PERCENT (1%). ARROWS INDICATE SLOPE DIRECTION, RECESS SLABS AS REQUIRED TO ACCOMMODATE FINISHES AND SLOPE.

REMOVAL & REPLACEMENT OF FINISHES: ARCHITECTURAL, STRUCTURAL, MECHANICAL, PLUMBING AND ELECTRICAL DRAWINGS INDICATE PATCHING AND REPAIRING FINISHES TO MATCH EXISTING FINISHES AT SEVERAL LOCATIONS WHERE EXISTING EQUIPMENT AND COMPONENTS ARE BEING REMOVED OR MODIFIED. IT IS THE RESPONSIBILITY OF THE CONTRACTOR TO REVIEW EXISTING SITE CONDITIONS AND ALL DRAWINGS AND LOCATIONS WHER PATCH-BACK OF FINISHES IS REQUIRED OR WHERE FINISHES WILL NEED TO BE REMOVED AND REPLACED IN ORDER TO INSTALL NEW WORK. AT THESE LOCATIONS IT IS THE REPONSIBILITY OF THE CONTRACTOR, AS A PART OF THIS CONTRACT, TO PROVIDE ALL LABOR AND MATERIALS AS REQUIRED FOR THE REMOVAL AND REPLACEMENT OF FINISHES WITH NEW TO MATCH EXISTING FINISHES.

DEMOLITION NOTES

- 1 REMOVE RESTROOM ACCESSORIES
- REMOVE TOILET PARTITIONS REMOVE PLUMBING FIXTURES
- REMOVE ELECTRICAL
- **REMOVE DOOR & FRAME**
- **REMOVE WINDOW**
- REMOVE WALL FINISHES
- REMOVE CEILING FINISHES REMOVE INSULATION
- REMOVE WALLS
- SAWCUT AND REMOVE CONCRETE SLAB
- REMOVE HVAC EQUIPMENT & CONCRETE PAD
- REMOVE HVAC DUCT / SHEET METAL / PANELS (14) REMOVE CHAIN LINK FENCE & GATES & REPLACE
- W/ (NEW)
- (5) SAWCUT AND REMOVE CONCRETE CURB (16) BEAD BLAST & REMOVE PAINT FROM (E) SLAB. IN
- PREPARATION FOR EPOXY FLOOR FINISH PATCH & REPAIR SLAB
- (1) REMOVE (E) FLOOR & BASE FINISHES
 (18) (E) CHAIN LINK FENCE TO REMAIN (SHOWN WITH
- LIGHT LINE) (9) (E) CONC. RAMP AND HANDRAILS TO REMAIN 20 SEE MECHANICAL FOR EXHAUST FAN TO BE
- REMOVED AT ROOF-CONTRACTOR TO PATCH BACK ROOF OPENING W/ COMPATIBLE ROOFING MATERIAL TO MAKE WATERPROOF (21) REMOVE WALL AND CEILING FINISHES AS
- REQUIRED TO INSTALL W.H. SHELF STRUCTURE AND PLUMBING (2) REMOVE & MODIFY (E) CEILING GRID TO
- ACCOMMODATE (N) WALLS THAT PASS THROUGH





	NOTEO	2100	SPECIALTIES	[
KEY	NOTES	2100.A1 2100.A2	display case marker board		
0300 0300.A1	CONCRETE concrete slab on grade - replace where remove	2100 43	TV/monitor bracket signs:		
0300.A2	- see plumbing and structural concrete footing	2100.744	.01 parking lot entrance sign "towaway" per Civil		
0300.A4 0300.A5	expansion joint splash block		.02 ADA accessible parking stall sign per Civil .03 room identification sign per dtl. 2/A0.1		
0300.A6 0300.A7	Concrete curb Concrete curb, walkway, stairs & pilasters - see		.04 restroom identification sign per dtl. 2/A0.1		
0000	civil		.05 ADA Tactile exit sign per dtl. 3/A0.1 .06 self-illuminating exit		
0400 0400.A1	MASONRY concrete masonry wall		.07 assistive listening system per detail 7/A0.1		
0500	METALS		.08 Monument sign .09 Building sign		0
0500.A2	corrugated structural metal roof deck	2100.A5	.10 Dedication plague toilet partition		450
0500.A3 0500.A4	metal pipe bollard concrete fill metal pipe bollard removable	2100.A6 2100.A7	urinal partition toilet accessories:		lite 5
0500.A5 0500.A6	metal pipe hand rail - 1.5" diameter metal roof access ladder with security door		.01 paper towel dispenser .02 toilet paper dispenser		Suite 825 12
0500.A7 0500.A8	metal louver Metal pipe handrails & guardrails - see civil		.03 sanitary napkin dispenser .04 soap dispenser		- V - V
0500.B1 0500.B2	rolled channel (structural support grid) metal furring channel		.05 mirror .09 trash receptacle		DU6
0600	WOOD, PLASTICS AND COMPOSITES		.10 grab bar .11 toilet seat cover		Avenue o, CA 9 6.921.2 321.221;
0600.A1 0600.A2	wood framing - see structural frame opening for new door, window, or HVAC		.13 sanitary napkin disposal		
0600.A3 0600.A4	in-fill frame door/window/duct opening wood beam	2100.A8	folding panel partition		30 Howe A acramento hone: 916 ax: 916.92
0600.A4 0600.A5 0600.A6	wood post	2100.B1 2100.B2	fire extinguisher metal shelving		Ho Ho Ho
0600.A7	wood joist wood trusses	2100.B3 2100.B4	metal lockers knox box		30 I acr hor ax:
0600.A8 0600.A9	2 x 4 furred wall blocking	2110	EQUIPMENT		73 Sa Ph Fa
0600.B1 0600.B2	exterior wood wall sheathing exterior wood roof sheathing	2110.A1 2110.A2	projection screen refrigerator (owner furnished, contractor		
0600.B3	wood framed and sheathed cricket - use fire retardant treated wood	2110.A3	installed) microwave (owner furnished, contractor		+ ∾ ∾
0600.C1 0600.C2	wood trim wood hand rail		installed)		
0700	THERMAL AND MOISTURE PROTECTION	2120 2120.A1	FURNISHINGS window coverings & track		
0700.A1	insulation .01 R-13 batt/blanket (3.5" thick)	2120.A1 2120.A2	plastic laminate casework		
	.02 R-21 batt/blanket (6.5" thick) .03 R-30 batt/blanket (10" thick)		.01 ada accessible sink base cabinet .02 plastic laminate countertop with 4"		AR
	.04 R-38 batt/blanket (12" thick) .05 board insulation (2" thick)	2120.A3	backsplash casework		
0700 04	.06 board insulation tapered cricket	2200	PLUMBING	CED	ARO
0700.B1 0700.B2.	Standing seam roofing system single ply membrane roofing system	2200.A1	plumbing equipment .01 sink	CENSL	
	.01 extend roofing up and over parapet wall .02 walk pad		.02 lavatory .03 toilet		
0700.B3	.03 Parapet Wall Flashing built up roofing		.04 urinal .05 drinking fountain	(★ ([∽] C-2	2525 🖌 🖈
0700.B4 0700.B5	modified bitumen roofing composition shingle roofing		.06 mop sink .07 water heater		<u>51/21</u>
0700.C1	galvanized sheet metal .01 two piece Fry Springlok flashing system		.08 Roof drain/Overflow Combo Unit .09 Floor drain - slope floor to drain 2% max.	DA OF	EWAL TE CALIFO
	.02 parapet cap flashing .02 valley flashing		slope		CAL
	.03 splash pan				
	.05 scupper	2300 A1	HVAC		
	.05 scupper .06 gutter .07 downspout	2300.A1 2300.A2	mechanical equipment ceiling register		
	.06 gutter .07 downspout .08 22 GA GSM Siding/Soffit	2300.A1	mechanical equipment		
0700.C2	.06gutter.07downspout.0822 GA GSM Siding/Soffit.0922 GA GSM Corner Guardvent	2300.A1 2300.A2 2300.A3 2300.A4 2600	mechanical equipment ceiling register mechanical duct Condensate Line ELECTRICAL		S
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0700.D1 0800 0800.A1 0800.A2 0800.A3 0800.A4 0800.A5 0800.A6 0800.A7 0800.A8 0800.A9 0900 0900.A1 0900.A1 0900.A3 0900.A3 0900.A4 0900.A5	 .06 gutter .07 downspout .08 22 GA GSM Siding/Soffit .09 22 GA GSM Corner Guard vent .01 roof vent - typ. of 4 .02 pipe vent .03 hot vent .04 duct penetration sealant .01 remove (e) sealant from (e) doors and (e) windows, install (n) sealant - typical .02 remove (e) sealant and backer pod from (e) concrete wall panel joint - install (n) backer rod and sealant - typical .02 OPENINGS door and frame door door frame roll up door window system access door extruded alum. corner Roof hatch FINISHES vinyl composition tile flooring and base resilient sheet flooring and base carpet and base base ceramic tile 	2300.A1 2300.A2 2300.A3 2300.A4 2600 2600.A1 2600.A2 2600.A3 3200.A3 3200.A3 3200.A3 3200.A4 3200.A3 3200.A4 3200.A5 3200.A6 3200.A7 3200.B1 3200.B1 3200.B3 3200.B1 3200.B3 3200.B4 3200.B5 3200.B7 3200.C1 3200.C2 3200.C3 3200.C1 3200.C2 3200.C3 3200.D1 3200.D2 3200.D3 3200.D4 3200.D5 3200.D6	mechanical equipment ceiling register mechanical duct Condensate Line ELECTRICAL electrical equipment light fixture MDF SITEWORK gas meter assembly water meter box backflow assembly fire hydrant trench drain area drain drain inlet decomposed granite aggregate base rock concrete paving asphalt paving concrete curb concrete mow strip trash enclosure line paint striping fire lane striping game line striping ada accessible car parking stall ada accessible ramp per civil truncated domes ada accessible path of travel ada accessible path of travel ada accessible restrooms (men's and women's)	MODERNIZ HOUSTON	-AN R ELEV
0700.D1 0800 0800.A1 0800.A2 0800.A3 0800.A4 0800.A5 0800.A6 0800.A7 0800.A8 0800.A9 0900 0900.A1 0900.A3 0900.A1 0900.A3 0900.A3 0900.A3 0900.A3 0900.B1 0900.B2 0900.B3 0900.B4	 .06 gutter .07 downspout .08 22 GA GSM Siding/Soffit .09 22 GA GSM Corner Guard vent .01 roof vent - typ. of 4 .02 pipe vent .03 hot vent .04 duct penetration sealant .01 remove (e) sealant from (e) doors and (e) windows, install (n) sealant - typical .02 remove (e) sealant and backer pod from (e) concrete wall panel joint - install (n) backer rod and sealant - typical OPENINGS door and frame door door frame roll up door window storefront window system access door extruded alum. corner Roof hatch FINISHES vinyl composition tile flooring and base resilient sheet flooring and base carpet and base base ceramic tile gypsum board wainscot vinyl wall covering vinyl wall covering vinyl wall covering vinyl wall covering 	2300.A1 2300.A2 2300.A3 2300.A4 2600 2600.A1 2600.A2 2600.A3 3200.A1 3200.A2 3200.A3 3200.A4 3200.A2 3200.A3 3200.A4 3200.A5 3200.A3 3200.A4 3200.A5 3200.A3 3200.A4 3200.A5 3200.B1 3200.B3 3200.B4 3200.B5 3200.B6 3200.C1 3200.C1 3200.C2 3200.C3 3200.C1 3200.C2 3200.C3 3200.D1 3200.D2 3200.D3 3200.D4 3200.D5 3200.D6 3200.D7 3200.D8	mechanical equipment ceiling register mechanical duct Condensate Line ELECTRICAL electrical equipment light fixture MDF SITEWORK gas meter assembly water meter box backflow assembly fire hydrant trench drain area drain drain inlet decomposed granite aggregate base rock concrete paving asphalt paving concrete curb concrete mow strip trash enclosure line paint striping fire lane striping game line striping ada accessible car parking stall ada accessible ramp per civil truncated domes ada accessible restrooms (girl's and boy's) ada accessible drinking fountain	MODERNIZ HOUSTON	-AN R ELEV
0700.D1 0800 0800.A1 0800.A2 0800.A3 0800.A3 0800.A4 0800.A5 0800.A6 0800.A7 0800.A8 0800.A9 0900 0900.A1 0900.A1 0900.A1 0900.A2 0900.A3 0900.A3 0900.A3 0900.B1 0900.B1 0900.B2 0900.B3 0900.B4 0900.B5 0900.B6	 .06 gutter .07 downspout .08 22 GA GSM Siding/Soffit .09 22 GA GSM Corner Guard vent .01 roof vent - typ. of 4 .02 pipe vent .03 hot vent .04 duct penetration sealant .01 remove (e) sealant from (e) doors and (e) windows, install (n) sealant - typical .02 remove (e) sealant and backer pod from (e) concrete wall panel joint - install (n) backer rod and sealant - typical .02 remove (e) sealant and backer pod from (e) concrete wall panel joint - install (n) backer rod and sealant - typical .02 OPENINGS .03 door and frame .04 door .05 door and frame .06 door .07 door frame .08 vindow system .08 access door .09 extruded alum. corner .09 hatch .09 FINISHES .09 vinyl composition tile flooring and base .09 reamic tile .09 gysum board .09 wainscot .09 vinyl wall covering .09 vinyl wall covering .09 vinyl wall covering .09 vinyl wall covering .010 vinyl wall covering .010 vinyl wall covering .010 vinyl wall panels 	2300.A1 2300.A2 2300.A3 2300.A4 2600 2600.A1 2600.A2 2600.A3 3200.A1 3200.A2 3200.A3 3200.A4 3200.A2 3200.A3 3200.A4 3200.A5 3200.A3 3200.A4 3200.A5 3200.A3 3200.A4 3200.A5 3200.B1 3200.B3 3200.B4 3200.B5 3200.B4 3200.B5 3200.B7 3200.C1 3200.C1 3200.C2 3200.C3 3200.D1 3200.D2 3200.D3 3200.D4 3200.D5 3200.D6 3200.D7	mechanical equipment ceiling register mechanical duct Condensate Line ELECTRICAL electrical equipment light fixture MDF SITEWORK gas meter assembly water meter box backflow assembly fire hydrant trench drain area drain drain inlet decomposed granite aggregate base rock concrete paving asphalt paving concrete curb concrete mow strip trash enclosure line paint striping fire lane striping game line striping ada accessible car parking stall ada accessible ramp per civil truncated domes ada accessible restrooms (men's and women's) ada accessible restrooms (girl's and boy's) ada accessible drinking fountain chain link fence .01 single 3'-0" wide swing gate	MODERNIZ HOUSTON	-AN R ELEV
0700.D1 0800 0800.A1 0800.A2 0800.A3 0800.A4 0800.A5 0800.A6 0800.A7 0800.A8 0800.A9 0900 0900 0900 0900 0900 0900 0900 0900 A1 0900.A1 0900.A2 0900.A3 0900.A3 0900.A3 0900.A3 0900.B1 0900.B3 0900.B3 0900.B4 0900.B5 0900.B6 0900.C1 0900.C2	 .06 gutter .07 downspout .08 22 GA GSM Siding/Soffit .09 22 GA GSM Corner Guard vent .01 roof vent - typ. of 4 .02 pipe vent .03 hot vent .04 duct penetration sealant .01 remove (e) sealant from (e) doors and (e) windows, install (n) sealant - typical .02 remove (e) sealant and backer pod from (e) concrete wall panel joint - install (n) backer rod and sealant - typical .02 remove (e) sealant and backer pod from (e) concrete wall panel joint - install (n) backer rod and sealant - typical .02 OPENINGS .03 door and frame door .04 door frame roll up door .05 window .07 storefront window system .08 access door .09 extruded alum. corner .09 hatch 	2300.A1 2300.A2 2300.A3 2300.A4 2600 2600.A1 2600.A2 2600.A3 3200.A1 3200.A2 3200.A3 3200.A4 3200.A2 3200.A3 3200.A4 3200.A5 3200.A3 3200.A4 3200.A5 3200.A3 3200.A4 3200.A5 3200.B1 3200.B3 3200.B4 3200.B5 3200.B6 3200.C1 3200.C1 3200.C2 3200.C3 3200.C1 3200.C2 3200.C3 3200.D1 3200.D2 3200.D3 3200.D4 3200.D5 3200.D6 3200.D7 3200.D8	mechanical equipment ceiling register mechanical duct Condensate Line ELECTRICAL electrical equipment light fixture MDF SITEWORK gas meter assembly water meter box backflow assembly fire hydrant trench drain area drain drain inlet decomposed granite aggregate base rock concrete paving asphalt paving concrete curb concrete mow strip trash enclosure line paint striping fire lane striping game line striping ada accessible car parking stall ada accessible ramp per civil truncated domes ada accessible restrooms (girl's and boy's) ada accessible drinking fountain chain link fence .01 single 3'-0" wide swing gate .02 pair 6'-0" wide swing gate chain link fence with vinyl slats	MODERNIZ HOUSTON	-AN R ELEV
0700.D1 0800 0800.A1 0800.A2 0800.A3 0800.A3 0800.A4 0800.A5 0800.A6 0800.A7 0800.A8 0800.A9 0900 0900.A1 0900.A1 0900.A2 0900.A3 0900.A1 0900.A3 0900.A3 0900.B1 0900.B1 0900.B2 0900.B3 0900.B4 0900.B5 0900.B6 0900.C1	 .06 gutter .07 downspout .08 22 GA GSM Siding/Soffit .09 22 GA GSM Corner Guard vent .01 roof vent - typ. of 4 .02 pipe vent .03 hot vent .04 duct penetration sealant .01 remove (e) sealant from (e) doors and (e) windows, install (n) sealant - typical .02 remove (e) sealant and backer pod from (e) concrete wall panel joint - install (n) backer rod and sealant - typical OPENINGS door and frame door door frame roll up door window storefront window system access door extruded alum. corner Roof hatch FINISHES vinyl composition tile flooring and base resilient sheet flooring and base carpet and base base ceramic tile gypsum board wainscot vinyl wall covering vinyl wall covering wrapped tackboard panels fiberglass reinforced plastic panels (FRP) acoustical wall panels suspended acoustical ceiling system glued or stapled on acoustical tile cement plaster wall finish .01 Expansion Screed 	2300.A1 2300.A2 2300.A3 2300.A4 2600 2600.A1 2600.A2 2600.A3 3200.A3 3200.A3 3200.A3 3200.A4 3200.A5 3200.A4 3200.A5 3200.A6 3200.A7 3200.B1 3200.B1 3200.B2 3200.B3 3200.B4 3200.B5 3200.B4 3200.B7 3200.C1 3200.C1 3200.C2 3200.C3 3200.C1 3200.C2 3200.C3 3200.D1 3200.D2 3200.D3 3200.D4 3200.D5 3200.D4 3200.D5 3200.D6 3200.D7 3200.D8	mechanical equipment ceiling register mechanical duct Condensate Line ELECTRICAL electrical equipment light fixture MDF SITEWORK gas meter assembly water meter box backflow assembly fire hydrant trench drain area drain drain inlet decomposed granite aggregate base rock concrete paving asphalt paving concrete curb concrete mow strip trash enclosure line paint striping fire lane striping game line striping game line striping ada accessible car parking stall ada accessible ramp per civil truncated domes ada accessible restrooms (men's and women's) ada accessible restrooms (girl's and boy's) ada accessible drinking fountain chain link fence .01 single 3'-0" wide swing gate .02 pair 6'-0" wide swing gate .03 pair 6'-0" wide swing gate .04 single 3'-0" wide swing gate	MODERNIZ HOUSTON	-AN R ELEV
0700.D1 0800 0800.A1 0800.A2 0800.A3 0800.A4 0800.A5 0800.A6 0800.A7 0800.A8 0800.A9 0900 0900.A1 0900.A1 0900.A1 0900.A1 0900.A3 0900.A1 0900.A3 0900.A3 0900.A3 0900.B1 0900.B2 0900.B3 0900.B3 0900.B4 0900.B5 0900.B4 0900.B5 0900.B4 0900.C1 0900.C2 0900.D1	 .06 gutter .07 downspout .08 22 GA GSM Siding/Soffit .09 22 GA GSM Corner Guard vent .01 roof vent - typ. of 4 .02 pipe vent .03 hot vent .04 duct penetration sealant .01 remove (e) sealant from (e) doors and (e) windows, install (n) sealant - typical .02 remove (e) sealant and backer pod from (e) concrete wall panel joint - install (n) backer rod and sealant - typical .02 remove (e) sealant and backer pod from (e) concrete wall panel joint - install (n) backer rod and sealant - typical .07 OPENINGS .08 door and frame .09 door .09 door .000 window .000 storefront window system .000 access door .01 extruded alum. corner .02 hatch .03 hatch .04 FINISHES .09 vinyl composition tile flooring and base .09 resilient sheet flooring and base .09 carpet and base .000 base .01 expension Screed .02 vinyl wall covering wrapped tackboard panels .03 fiberglass reinforced plastic panels (FRP) .03 acoustical wall panels .04 subject on acoustical tile .05 cement plaster wall finish .01 Expansion Screed .02 4" soffit vent screed .02 exterior panel wall system 	2300.A1 2300.A2 2300.A3 2300.A4 2600 2600.A1 2600.A2 2600.A3 3200.A3 3200.A3 3200.A4 3200.A3 3200.A4 3200.A5 3200.A4 3200.A5 3200.A1 3200.A3 3200.A4 3200.A5 3200.A3 3200.A3 3200.A3 3200.A3 3200.A3 3200.A3 3200.A3 3200.B1 3200.B2 3200.B3 3200.B1 3200.C1 3200.C2 3200.C3 3200.C1 3200.C1 3200.C2 3200.C3 3200.D1 3200.D2 3200.D3 3200.D4 3200.D5 3200.D4 3200.D5 3200.D6 3200.D7 3200.D8 3200.C1 3200.D1 3200.D2 3200.D3 3200.D4 3200.D5 3200.D3 3200.D4 3200.D5 3200.D5 3200.D6 3200.D7 3200.D8	mechanical equipment ceiling register mechanical duct Condensate Line ELECTRICAL electrical equipment light fixture MDF SITEWORK gas meter assembly water meter box backflow assembly fire hydrant trench drain area drain drain inlet decomposed granite aggregate base rock concrete paving asphalt paving concrete curb concrete curb concrete mow strip trash enclosure line paint striping fire lane striping game line striping game line striping ada accessible car parking stall ada accessible ramp per civil truncated domes ada accessible restrooms (girl's and boy's) ada accessible restrooms (girl's and boy's)	MODERNIZ HOUSTON	-AN R ELEV
0700.D1 0800 0800.A1 0800.A2 0800.A3 0800.A3 0800.A4 0800.A5 0800.A6 0800.A7 0800.A8 0800.A9 0900 0900.A1 0900.A1 0900.A1 0900.A2 0900.A3 0900.A3 0900.A3 0900.A3 0900.B1 0900.B2 0900.B3 0900.B3 0900.B4 0900.B5 0900.B5 0900.B5 0900.B6 0900.C1 0900.C2 0900.D1	 .06 gutter .07 downspout .08 22 GA GSM Siding/Soffit .09 22 GA GSM Corner Guard vent .01 roof vent - typ. of 4 .02 pipe vent .03 hot vent .04 duct penetration sealant .01 remove (e) sealant from (e) doors and (e) windows, install (n) sealant - typical .02 remove (e) sealant and backer pod from (e) concrete wall panel joint - install (n) backer rod and sealant - typical OPENINGS door and frame door door frame roll up door window system access door extruded alum. corner Roof hatch FINISHES vinyl composition tile flooring and base resilient sheet flooring and base carpet and base base ceramic tile gypsum board wainscot vinyl wall covering wrapped tackboard panels fiberglass reinforced plastic panels (FRP) acoustical wall panels suspended acoustical ceiling system glued or stapled on acoustical tile cement plaster wall finish .01 Expansion Screed .02 4" soffit vent screed 	2300.A1 2300.A2 2300.A3 2300.A4 2600 2600.A1 2600.A2 2600.A3 3200.A3 3200.A3 3200.A4 3200.A3 3200.A4 3200.A5 3200.A6 3200.A7 3200.B1 3200.B2 3200.B3 3200.B4 3200.B3 3200.B4 3200.B7 3200.C1 3200.C2 3200.C3 3200.C1 3200.C2 3200.C3 3200.C1 3200.C2 3200.C3 3200.D1 3200.C2 3200.C3 3200.D1 3200.C2 3200.C3 3200.D1 3200.C2 3200.C3 3200.D1 3200.C2 3200.C3 3200.D1 3200.C2 3200.C3 3200.D1 3200.C2 3200.C3 3200.D2 3200.D3 3200.D4 3200.D5 3200.D6 3200.D7 3200.D8 3200.E2	mechanical equipment ceiling register mechanical duct Condensate Line ELECTRICAL electrical equipment light fixture MDF SITEWORK gas meter assembly water meter box backflow assembly fire hydrant trench drain area drain drain inlet decomposed granite aggregate base rock concrete paving asphalt paving concrete curb concrete mow strip trash enclosure line paint striping fire lane striping game line striping game line striping fire lane striping ada accessible car parking stall ada accessible ramp per civil truncated domes ada accessible restrooms (girl's and boy's) ada accessible drinking fountain chain link fence .01 single 3'-0" wide swing gate .02 pair 6'-0" wide swing gate .03 single 3'-0" wide swing gate .04 single 3'-0" wide swing gate .05 pair 6'-0" wide swing gate .06 pair 6'-0" wide swing gate .07 pair 6'-0" wide swing gate .08 pair 6'-0" wide swing gate .09 pair 6'-0" wide swing gate .01 single 3'-0" wide swing gate .02 pair 6'-0" wide swing gate .03 pair 6'-0" wide swing gate .04 pair 6'-0" wide swing gate .05 pair 6'-0" wide swing gate .05 pair 6'-0" wide swing gate .06 pair 6'-0" wide swing gate .07 pair 6'-0" wide swing gate .08 pair 6'-0" wide swing gate .09 pair 6'-0" wide swing gate .00 pair 6'-0" wide swing gate .01 single 3'-0" wide swing gate .02 pair 6'-0" wide swing gate .03 pair 6'-0" wide swing gate .04 pair 6'-0" wide swing gate .05 pair 6'-0" wide swing gate .06 pair 6'-0" wide swing gate .07 pair 6'-0" wide swing gate .08 pair 6'-0" wide swing gate .09 pair 6'-0" wide swing gate .00 pair 6'-0" wide swing gate .01 pair 6'-0" wide swing gate .02 pair 6'-0" wide swing gate .03 pair 6'-0" wide swing gate .04 pair 6'-0" wide swing gate .05 pair 6'-0" wide swing gate .05 pair 6'-0" wide swing gate .06 pair 6'-0" wide swing gate .07 pair 6'-0" wide swing gate .08 pair 6'-0" wide swing gate .09 pair 6'-0" wide sw	CONSULTANT	FLOOR PLAN INTERIOR ELEV BUILDING P3
0700.D1 0800 0800.A1 0800.A2 0800.A3 0800.A4 0800.A5 0800.A6 0800.A7 0800.A8 0800.A9 0900 0900.A1 0900.A1 0900.A1 0900.A1 0900.A3 0900.A1 0900.A3 0900.A3 0900.A3 0900.B1 0900.B2 0900.B3 0900.B3 0900.B4 0900.B5 0900.B4 0900.B5 0900.B4 0900.C1 0900.C2 0900.D1	 .06 gutter .07 downspout .08 22 GA GSM Siding/Soffit .09 22 GA GSM Corner Guard vent .01 roof vent - typ. of 4 .02 pipe vent .03 hot vent .04 duct penetration sealant .01 remove (e) sealant from (e) doors and (e) windows, install (n) sealant - typical .02 remove (e) sealant and backer pod from (e) concrete wall panel joint - install (n) backer rod and sealant - typical .02 remove (e) sealant and backer pod from (e) concrete wall panel joint - install (n) backer rod and sealant - typical .07 OPENINGS .08 door and frame .09 door .09 door .000 window .000 storefront window system .000 access door .01 extruded alum. corner .02 hatch .03 hatch .04 FINISHES .09 vinyl composition tile flooring and base .09 resilient sheet flooring and base .09 carpet and base .000 base .01 expension Screed .02 vinyl wall covering wrapped tackboard panels .03 fiberglass reinforced plastic panels (FRP) .03 acoustical wall panels .04 subject on acoustical tile .05 cement plaster wall finish .01 Expansion Screed .02 4" soffit vent screed .02 exterior panel wall system 	2300.A1 2300.A2 2300.A3 2300.A4 2600 2600.A1 2600.A2 2600.A3 3200.A3 3200.A3 3200.A3 3200.A4 3200.A5 3200.A3 3200.A4 3200.A5 3200.B1 3200.B1 3200.B2 3200.B3 3200.B4 3200.B5 3200.B3 3200.B4 3200.B5 3200.B7 3200.C1 3200.C1 3200.C2 3200.C3 3200.D4 3200.D5 3200.D5 3200.D6 3200.D7 3200.D6 3200.D7 3200.D8 3200.D1 3200.D5 3200.D6 3200.D7 3200.D5 3200.D6 3200.C1 3200.C2 3200.C3 3200.D1 3200.C2 3200.C3 3200.D4 3200.D5 3200.D5 3200.D6 3200.C1 3200.C2 3200.C3 3200.D5 3200.D6 3200.C1 3200.C2 3200.C3 3200.D6 3200.D7 3200.C1 3200.C2 3200.C3 3200.D6 3200.D7 3200.D6 3200.D7 3200.C1 3200.C2 3200.C3 3200.D7 3200.D6 3200.D7 3200.C1 3200.C2 3200.C3	mechanical equipment ceiling register mechanical duct Condensate Line ELECTRICAL electrical equipment light fixture MDF SITEWORK gas meter assembly water meter box backflow assembly fire hydrant trench drain area drain drain inlet decomposed granite aggregate base rock concrete paving asphalt paving concrete curb concrete mow strip trash enclosure line paint striping fire lane striping game line striping game line striping ada accessible car parking stall ada accessible ramp per civil truncated domes ada accessible restrooms (men's and women's) ada accessible restrooms (girl's and boy's) ada accessible restrooms (girl's and boy's)	MODERNIZ HOUSTON	-AN R ELEV
0700.D1 0800 0800.A1 0800.A2 0800.A3 0800.A4 0800.A5 0800.A6 0800.A7 0800.A8 0800.A9 0900 0900.A1 0900.A1 0900.A1 0900.A1 0900.A3 0900.A1 0900.A3 0900.A3 0900.A3 0900.B1 0900.B2 0900.B3 0900.B3 0900.B4 0900.B5 0900.B4 0900.B5 0900.B4 0900.C1 0900.C2 0900.D1	 .06 gutter .07 downspout .08 22 GA GSM Siding/Soffit .09 22 GA GSM Corner Guard vent .01 roof vent - typ. of 4 .02 pipe vent .03 hot vent .04 duct penetration sealant .01 remove (e) sealant from (e) doors and (e) windows, install (n) sealant - typical .02 remove (e) sealant and backer pod from (e) concrete wall panel joint - install (n) backer rod and sealant - typical .02 remove (e) sealant and backer pod from (e) concrete wall panel joint - install (n) backer rod and sealant - typical .07 OPENINGS .08 door and frame .09 door .09 door .000 window .000 storefront window system .000 access door .01 extruded alum. corner .02 hatch .03 hatch .04 FINISHES .09 vinyl composition tile flooring and base .09 resilient sheet flooring and base .09 carpet and base .000 base .01 expension Screed .02 vinyl wall covering wrapped tackboard panels .03 fiberglass reinforced plastic panels (FRP) .03 acoustical wall panels .04 subject on acoustical tile .05 cement plaster wall finish .01 Expansion Screed .02 4" soffit vent screed .02 exterior panel wall system 	2300.A1 2300.A2 2300.A3 2300.A4 2600 2600.A1 2600.A2 2600.A3 3200.A3 3200.A3 3200.A4 3200.A3 3200.A4 3200.A5 3200.A6 3200.A7 3200.B1 3200.B2 3200.B3 3200.B4 3200.B3 3200.B4 3200.B7 3200.C1 3200.C2 3200.C3 3200.C1 3200.C2 3200.C3 3200.C1 3200.C2 3200.C3 3200.D1 3200.C2 3200.C3 3200.D1 3200.C2 3200.C3 3200.D1 3200.C2 3200.C3 3200.D1 3200.C2 3200.C3 3200.D1 3200.C2 3200.C3 3200.D1 3200.C2 3200.C3 3200.D2 3200.D3 3200.D4 3200.D5 3200.D6 3200.D7 3200.D8 3200.E2	mechanical equipment ceiling register mechanical duct Condensate Line ELECTRICAL electrical equipment light fixture MDF SITEWORK gas meter assembly water meter box backflow assembly fire hydrant trench drain area drain drain inlet decomposed granite aggregate base rock concrete paving asphalt paving concrete curb concrete mow strip trash enclosure line paint striping fire lane striping game line striping game line striping fire lane striping ada accessible car parking stall ada accessible ramp per civil truncated domes ada accessible restrooms (girl's and boy's) ada accessible drinking fountain chain link fence .01 single 3'-0" wide swing gate .02 pair 6'-0" wide swing gate .03 single 3'-0" wide swing gate .04 single 3'-0" wide swing gate .05 pair 6'-0" wide swing gate .06 pair 6'-0" wide swing gate .07 pair 6'-0" wide swing gate .08 pair 6'-0" wide swing gate .09 pair 6'-0" wide swing gate .01 single 3'-0" wide swing gate .02 pair 6'-0" wide swing gate .03 pair 6'-0" wide swing gate .04 pair 6'-0" wide swing gate .05 pair 6'-0" wide swing gate .05 pair 6'-0" wide swing gate .06 pair 6'-0" wide swing gate .07 pair 6'-0" wide swing gate .08 pair 6'-0" wide swing gate .09 pair 6'-0" wide swing gate .00 pair 6'-0" wide swing gate .01 single 3'-0" wide swing gate .02 pair 6'-0" wide swing gate .03 pair 6'-0" wide swing gate .04 pair 6'-0" wide swing gate .05 pair 6'-0" wide swing gate .06 pair 6'-0" wide swing gate .07 pair 6'-0" wide swing gate .08 pair 6'-0" wide swing gate .09 pair 6'-0" wide swing gate .00 pair 6'-0" wide swing gate .01 pair 6'-0" wide swing gate .02 pair 6'-0" wide swing gate .03 pair 6'-0" wide swing gate .04 pair 6'-0" wide swing gate .05 pair 6'-0" wide swing gate .05 pair 6'-0" wide swing gate .06 pair 6'-0" wide swing gate .07 pair 6'-0" wide swing gate .08 pair 6'-0" wide swing gate .09 pair 6'-0" wide sw	NOLSOOH CONSULTANT PROJECT NO.	FLOOR PLAN INTERIOR ELEV BUILDING P3

DRAWN SLH CHECKED SLH SCALE

CADFILE

UPDATED

SHEET NO.

A2.1.P3

BID ALTERNATE #1

11 OF 79 SHEETS

DOC	R SCHEDULE			1				1							
ΡE		ΥΡΕ	TION			DNG	RE	FRAM	ИЕ	DETAILS	6				DOOR TYPES
DOOR MARK/TYPE	DOOR SIZE WIDTH X HEIGHT	DOOR TY	CONSTRUCTION	FINISH	GLAZING	FIRE RATING	HARDWARE GROUP	MATERIAL	FINISH	HEAD	JAMB	SILL	DOOR NOTES	DOOR LEGEND	
	BUILDING B												-		WHERE OCCURS
B101	3'-0" X 7'-0"	Α	HM	Р	-	-	01	HM	Р	4/A8.2	5/A8.2	6/A8.2	1, 4, 5, 6, 8	WD WOOD FG FIBER GLASS T TEMPERED SAFETY HM HOLLOW METAL S STAIN SC SOLID CORE WOOD	
B102	3'-0" X 7'-0"	A	НМ	Р	-	-	01	HM	Ρ	4/A8.2	5/A8.2	6/A8.2	1, 4, 5, 6, 8	P PAINT PM PREFINISHED METAL F FACTORY FINISH AL ALUMINUM	
														E EXISTING T.CLR TEMPERED CLEAR SS STAINLESS STEEL	WHERE OCCURS
	BUILDING F	1	1		1			· · · ·		· · · · ·		1	Γ		
F108	3'-0" X 7'-0"	A	HM	P	-	-	02	HM	Р	2/A8.2	2/A8.2	6/A8.2	3, 6, 10		
F109	3'-0" X 7'-0"	Α	HM	Р	-	-	03	E	Р	-	-	6/A8.2	4, 5, 6, 12, 16	DOOR NOTES	
F110	3'-0" X 7'-0"	Α	НМ	Р	-	-	04	HM	Р	2/A8.2	2/A8.2	6/A8.2	4, 5, 6, 12	1. EXTERIOR DOORS SHALL BE WEATHER	
														STRIPPED AND ALL JOINTS AND	HAVE ¹ / ₂ " MAXIMUM HIGH THRES FLOOR AND LANDING ON BOTH
P101	3'-0" X 7'-0"	Α	HM	Р	-	-	02	HM	Р	2/A8.2	2/A8.2	6/A8.2	2, 3	PENETRATIONS SHALL BE CHALKED AND	MAXIMUM DOOR OPENING EFF
P102	3'-0" X 7'-0"	A	HM	Р	-	-	02	HM	Р	2/A8.2	2/A8.2	6/A8.2	3	SEALED.	AT EXTERIOR AND AT INTERIO ARE EQUIPPED WITH SINGLE-E
	BUILDING C													2. PROVIDE TACTILE EXIT SIGN PER DETAIL 3/A0.1	NON-GRASPING TYPE HARDWA
C101	3'-0" X 7'-0"	A	HM	P	-	-	05	HM	P	4/A8.2	5/A8.2	6/A8.2	2, 3, 6, 7, 13		CENTERED BETWEEN 34" & 44" 2016 CBC, SECTIONS 11B-404.2
C102	3'-0" X 7'-0"	A	HM	P	-	-	05	HM	P	4/A8.2	5/A8.2	6/A8.2	2, 3, 6, 7	 3. PROVIDE ROOM IDENTIFICATION SIGN PER DETAIL 2/A0.1. 	11B-404.2.9.
														4. PROVIDE TOILET ROOM IDENTIFICATION SIGN PER DETAIL 2/A0.1	7. EXIT DOORS TO BE EQUIPPED HARDWARE
														5. PROVIDE TOILET ROOM DOOR SYMBOLS PER	8. PROVIDE 1'-6" WIDE X 1'-0" HIG
														– DETAIL 2/A0.1.	9. ALL EXTERIOR DOOR GLAZING DOUBLE PANE INSULATING GLA
														6. ALL DOORS INTERIOR AND EXTERIOR SHALL	DOUBLE FARE INSULATING GL

CAS	EWORK SO		DULI	Ξ	•								
		SIZE	(INCH	IES)			FIN	IISH					
KEY					CAS	SEWO	RK	CO FIN	UNT IISH	ER	ΓOF	0	
CABINET NUMBER	W.I NUMBER	WIDTH	HEIGHT	DEPTH	PLASTIC LAMINATE			PLASTIC LAMINATE					NOTES
102A	102	36	34	24	•			•					1, 2
102B	102	42	34	24	•			•					1, 2
154A	154	36	34	24	•			•					1, 2, 3
222A	222	36	34	24	•			•					1, 2
302A	302	36	30	12	•			•					1, 2
340A	340	36	48	12									1, 2, 4
402A	412	36	84	24	•			•					1, 2
222B	222												
NOTES		1		1	 1	1			<u> </u>			<u> </u>	

1. HEIGHT PROVIDED FOR BASE CABINETS IF FROM FINISHED FLOOR TO TOP OF COUNTER TOP. ACTUAL HEIGHT OF BASE CABINET IS LESS.

SEE DETAILS 11 & 12/A8.2 FOR CASEWORK ANCHORAGE
 SEE DETAIL 10/A8.2 FOR DISABLED ACCESSIBLE SINK CABINET

4. PROVIDE QUANTITY OF CUBBIES AS INDICATED

																			NOTES
		FLOC	DR	BASE	1	WAIN	SCOT	WALI	LS							CEIL	ING		
								N		E		S		W					
ROOM NUMBER	ROOM NAME	MATERIAL	FINISH	MATERIAL	FINISH	MATERIAL	НЕІСНТ	MATERIAL	FINISH	MATERIAL	FINISH	MATERIAL	FINISH	MATERIAL	FINISH	MATERIAL	FINISH	НЕІСНТ	
	BUILDING B															1			
B108	GIRLS RR	RE	-	6B	-	FRP1	9'-0"	G1	-	G1	-	G1	-	G1	-	G1	Р	9'-0"	1, 2, 3, 4, 5, 6
B110	BOYS RR	RE	-	6B	-	FRP1	9'-0"	G1	-	G1	-	G1	-	G1	-	G1	Р	9'-0"	1, 2, 3, 4, 5, 6
B104	INTERVENTION	C1	-	4B	-	-	-	Е	Р	-	Е	Р	-	E	Ρ	E	Р	11'-0"	
F109	RR2	RS	-	6B	-	FRP1	9'-0"	G1	-	G1	-	G1	-	G1	-	E	Р	9'-0"	1, 2, 3, 6
F110	RR1	RS	I	6B	-	FRP1	9'-0"	G1	-	G1	-	G1	-	G1	-	E	Р	9'-0"	1, 2, 3, 6
F116	BOYS RR	RE	-	6B	-	FRP1	9'-0"	Е	Р	E	Р	Р	-	E G1	Ρ	E	Р	9'-0"	1, 2
F117	GIRLS RR	RE	-	6B	-	FRP1	9'-0"	Е	Р	E	Ρ	Р	-	E G1	Ρ	E	Р	9'-0"	1, 2
F104	OFFICE	C1	-	4B	-	-	-	Е	Р	E	Р	E	Р	E	Ρ	E	Р	9'-0"	
F107	PRINCIPLE	C1	-	4B	-	-	-	Е	Р	E	Р	Е	Р	E	Ρ	E	Р	9'-0"	
F108	COUNSELOR	C1	-	4B	-	-	-	Е	Р	E	Р	Е	Р	E	Ρ	E	Р	9'-0"	
F111	JAN	RS	F	6B	-	FRP1	7'-0"	Е	Р	E	Р	E	Р	E	Ρ	E	Р	9'-0"	1, 2
P301	OFFICE	C1 RT	F	4B	-	-	-	G1	Р	E	Р	Е	Р	E	Ρ	E	-	9'-0"	6, 7
P302	PRINCIPLE	C1	F	4B	-	-	-	Е	Р	E	Р	G1	Р	G1	Ρ	E	-	9'-0"	6, 7
P303	WORK	RT	F	4B	-	-	-	Е	Р	G1	Р	G1	Р	E	Ρ	E	-	9'-0"	6, 7
F112	CLASSROOM 4	C1	-	4B	-	-	-	Е	Р	E	Р	E	Р	E	Ρ	E	Р	11'-0"	
F113	CLASSROOM 5	C1	-	4B	-	-	-	Е	Р	E	Ρ	E	Р	E	Ρ	E	Р	11'-0"	
	RIAL/FINISH LEGEN	ID		NC	TES														
6B 6 C1 0	" RUBBER BASE " INTEGRAL COVE BASE CARPET TILE VALK-OFF CARPET TILE			ΤY	PICAL.									AND WET					
RS F RE F	RESILIENT TILE FLOORIN RESILIENT SHEET VINYL I RESINOUS FLOORING 5/8" GYPSUM BOARD	g Floorin	IG	LE	AST 6"	UP WALI	L.		-					SHALL E					
G2 5	%8 GYPSOM BOARD 5/8" TYPE "X" GYPSUM BC GYPSUM BOARD EXISTIN													O WALLS					
CON C CS C P F	CONCRETE CONCRETE SEAL PAINT									ATION SI H THE R				ROOF S	TRUCT	URE			
N N F F FRP1 F	NO FINISH FACTORY FIBER REINFORCED PLAS	TIC		JO	ISTS. W	/HERE B	ATT RO	OF INSU	ULATIO	N IS EXF	OSED -		UPIED	ALLED E SPACE B FOR PAI	ELOW,				
FRP2 F	PANEL FIBER REINFORCED PLAS PANEL	TIC																	
VWT \	/INYL WRAPPED TACKBC '' X 4' SUSPENDED ACOU										. L				0.				
A2 2	CEILING SYSTEM TYPE 1 'X 2' SUSPENDED ACOU				REPLACE (E) ACOUSTICAL CEILING PANELS														
A3 2	CEILING SYSTEM TYPE 1 Y X 4' SUSPENDED ACOU CEILING SYSTEM TYPE 2	STICAL																	
	NSULATION EXISTING																		

THRESHOLD (ABOVE BOTH SIDES), WITH G EFFORT OF 5 LBS. TERIOR DOORS AND IGLE-EFFORT, ARDWARE (I.E.LEVER) " & 44" ABOVE FLOOR. 3-404.2.5, 11B-404.2.7,

PPED WITH PANIC

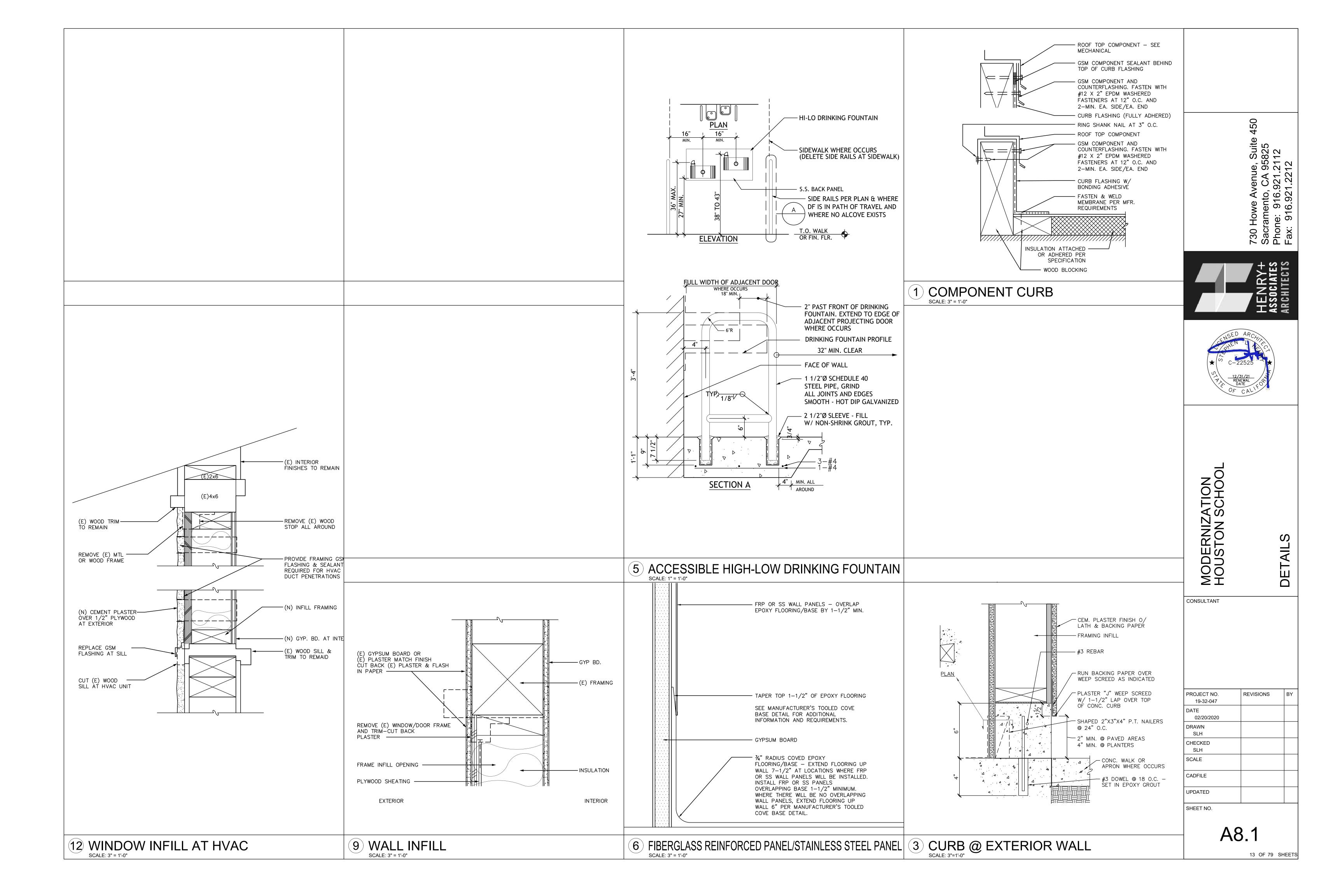
O" HIGH LOUVER

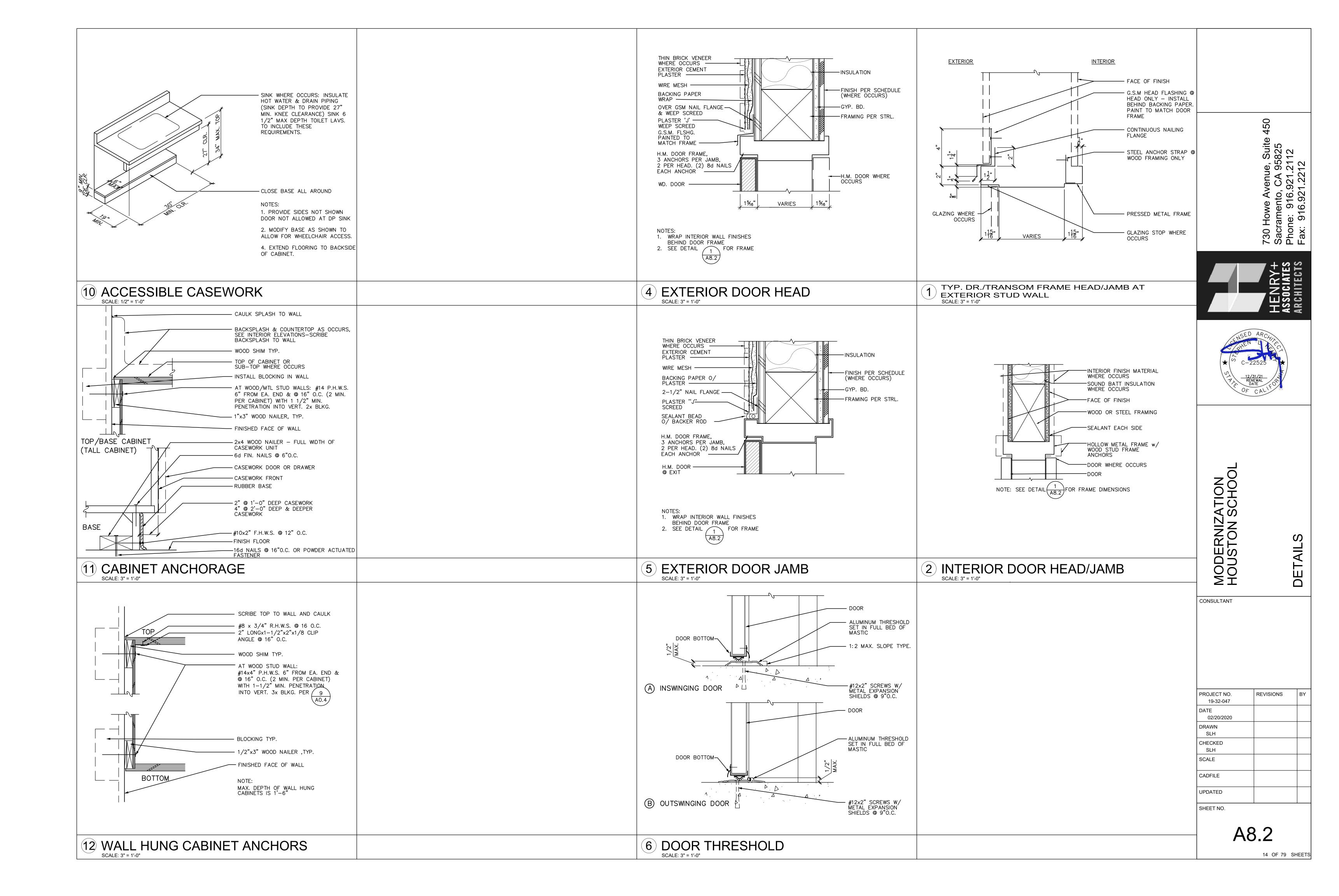
AZING SHALL BE

NG GLASS.

- 10. FLOOR DOOR STOPS TO BE LOCATED SO AS NOT TO CAUSE A TRIPPING HAZARD AND 4" MAX. FROM WALL.
- 11. UNDERCUT DOOR FOR $\frac{1}{2}$ " MIN. CLEARANCE.
- 12. UNDERCUT DOOR 1" FOR VENTILATION
- 13. DOOR EQUIPPED WITH ELECTRONIC ACCESS CONTROL SYSTEM - RE-CONNECT SYSTEM
- 14. PROVIDE POWER FOR ELECTRIC MOTOR OPERATION. VERIFY SWITCH LOCATION.
- 15. SEE ORNAMENTAL METAL FENCE DETAILS.
- 16. EXISTING DOOR FRAME FIELD VERIFY FRAME DIMENSIONS.

	730 Howe Avenue, Suite 450 Sacramento, CA 95825 Phone: 916.921.2112	Fax: 916.921.2212
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	ARCHYINC 22525 (31/21 NEWAL ATE CALLEO	
MODERNIZATION HOUSTON SCHOOL	Ψī	
CONSULTANT PROJECT NO.	REVISIONS	ВҮ
19-32-047 DATE 02/20/2020 DRAWN SLH CHECKED SLH SCALE CADFILE UPDATED		
SHEET NO.	3.1 12 OF 79 SH	IEETS





Bolt and Washer Notes

1. Provide washers under heads and nuts of all bolts and lags bearing against wood. 2. Installation of bolts, lags, screws and washers shall be in accordance with Title 24 Section 2304.10.

Washers shall be	square plate steel or round malleable iron:
	2"x2"x ¹ /4" or 2 ¹ /2"Øx ¹ /4"
B. ⁵%"ø bolt	2½"×2½"×¼" or 2¾"Ø×5%"
	2¾″×2¾″×5%″ or 3″∅×¾″
D. 7⁄8"ø bolt	3¼"x3¼"x¾" or 3½"øx½"
E. 1"ø bolt	3¾"x3¾"x3%" or 4"øx½"
F. Sill PL ABS	s 3"x3"x¼", UNO.
All exposed washe	ers shall be malleable iron, UNO. Upset (rolled)

threads are not permitted. 5. Refer to Shear Wall Diagram & Legend for plate washer

- requirements at wood shear wall sill plate anchor bolts. 6. All bolts, nuts and washers in contact with pressure treated
- wood shall be hot dipped galvanized.

◆ Drilled-In Anchors - Installation & Testing

- 1. Anchors shall be installed in accordance with the recommendations given in the ICC Reports listed below and the manufacturer's instructions.
 - Expansion Anchors: A. To Concrete Hilti Kwik Bolt-TZ (KB-TZ), ESR-1917
 - B. To CMU Hilti Kwik Bolt 3 (KB-3), ESR-1385 Epoxy Anchors: A. To Concrete Hilti HIT-HY 200, ESR-3187
 - B. To CMU Hilti HIT-HY 70, ESR-2682
- 2. Anchors shall be tested per all applicable requirements of the 2016 CBC & Evaluation Report (ICC-ES, ESR, IAPMO UES, etc.) 3. The following criteria apply for the acceptance of installed anchors. A. <u>Hydraulic Ram Method:</u> The anchor should have no observable movement after 15 seconds at the applicable test load. For
 - wedge type anchors, a practical way to determine observable movement is that the washer under the nut becomes loose. B. Torque Wrench Method: The applicable test for torque must
- be reached within $\frac{1}{2}$ -turn of the nut. 4. All anchors used in structural applications shall be tested. 50% of
- all anchors used in non-structural applications shall be tested per CBC Section 1910A.5. If any anchor fails the test, all anchors of the same type not previously tested shall be tested until 20 consecutive anchors pass, then resume initial testing frequency.
- 5. When installing drilled-in anchors in existing concrete or masonry, do not cut or damage existing reinforcing bars.
- 6. The testing of the anchors shall be done by the testing laboratory and a report of the test results shall be submitted to DSA and the Architect / Structural Engineer.
- 7. Substitution of an alternative manufacturer is subject to the approval of the Structural Engineer of Record and DSA.
- 8. Test expansion anchors to values listed below. Contact Structural Engineer for epoxy anchor test values and procedures. 9. Test equipment (including torque wrenches) is to be calibrated
- by an approved testing laboratory in accordance with standard recoanized procedures. 10. Testing shall occur at a minimum of 24 hours after the installation of the anchors.
- 11. All tests shall be performed in the presence of a Special Inspector per CBC Section 1910A.5.
- 12. Test proof loads for repair conditions are not part of these documents and will require a separate approval by the Structural Engineer of Record and DSA.

Concrete Anchors			CMU Ancl	nors	
Expansion Anchors Hilti Kwik Bolt TZ ICC No. ESR—1917 May 1, 2019	Embed *	Torque Proof Load (ft—lb)	Expansion Anchors Hilti Kwik Bolt 3 ICC No. ESR—1385 February 1, 2020	Minimum Embed (in)	Torque Proof Load (ft-lb)
3∕8"∅	21⁄4"	25	3∕8"ø	2½"	15
1⁄2"ø	3 ⁵ ⁄8"	40	1/2ӯ	3½"	25
5%ӯ	4½"	60	5⁄8"ø	4"	65
₹4"ø	5½"	110	3 ₄ "ø	4¾"	120

∗ — UNO on plans

♦ Inspection Notes

- 1. General: In addition to the inspections required by the current CBC the owner shall employ a Special Inspector during construction of the following types of work. All special inspections shall be performed in accordance to Chapter 17A of the current CBC. Submit the name of all Special Inspectors to the Division of the State Architect for approval prior to starting work requiring
- special inspection. 2. Refer to Chapter 17A for additional requirements of the Special
- Inspector 3. <u>Special Inspector:</u> All Special Inspectors shall have a minimum of 3 years experience in the specific
- material / trade being inspected and shall not be less than 25 years of age. 4. Earthwork: A representative of the Geotechnical Engineer of
- Record shall be present during the grading, excavation and foundation construction. 5. <u>Specific materials / trades requiring special inspection:</u>
- See 'Structural Tests and Inspections' sheet and all applicable sections of the project specifications. A. Concrete - During the placing of reinforcing steel
 - and inserts, during the taking of test specimens, and during the placing of all reinforced concrete including batch plant inspection.

- ◆ Carpentry Notes
- 1. Use DF No. 1 at 4x and smaller UNO. Use DF Select Structural at 6x and larger, UNO. Maximum moisture content = 19%, typical.
- All SP used for wall, roof and flooring is to be Structural 1, UNO. 2. Center ABs on 2x sill As equal to or less than 2x6. Place ABs @ 234" from exterior face @ 2x8 sills. Use 2 rows of ABs at 2³/₄" from ea
- edge @ sills > 2x8. For "shot" sills see details. 3. All wood sills to be pressure treated douglas fir. Sill plate anchor bolts are to be F1554 Gr 36, cut threads. Use 5% "Øx12" long bolts (18" at curbs) w/4" max projection & 8" min embed below T.O. slab. Bolts to be placed no more than 9" or less than $4\frac{1}{2}$ " from ends of sill pieces & not over 4'-0'' cc between bolts. Holes over $\frac{1}{3}$ the \mathbb{R} width and notches in sills are considered ends. Use 2-anchor bolts minimum per sill P
- 4. All studs shall be 2x6 @ 16"cc UNO. 5. Provide continuous 2x stud width blocking between studs at mid-height of stud or so spaced that the unbraced length of study does not exceed 10'-0''. Provide blocking in all walls at ceiling lines.
- 6. Where wood studs or nailer abut steel, concrete or masonry, fasten to same with 5_8 " ϕ bolts at 4'-0" cc. Use 8" long bolts in concrete or masonry. If heads of bolts will be exposed, use welded studs in place of bolts for wood to steel connections. Dap 1" maximum on 3x and larger as required (no dap allowed on 2x's). Provide SPIN min at all nailers, typ UNO.
- Lap wall plates at corners and intersections.
- 8. Provide 2x solid blocking between joists or rafters over supports. 9. For roof joists or rafters, 814" deep or deeper, provide 2x3 crossbridging at not over 10'-0"cc (8'-0"cc for 2x12). For floor joists $4\frac{1}{4}$ " deep or deeper, provide X-bridging at not over $8^{\circ}-0^{\circ}$ cc. Alternate metal X-bridging is acceptable.
- 10. Bolt holes in wood or steel shall be $\frac{1}{16}$ larger than bolt diameter. 11. All bolts, expansion anchors and lag screws shall be provided with metal washers under the heads and nuts which bear on wood. Lag screws and wood screws shall be screwed and not driven into place. All bolts and lag screws shall be tightened on installation and retightened before closing in or completion of the job.
- 12. Provide shaped and dapped pieces as shown on drawings. Dap 1" max on 3x and larger members (no dap allowed on 2x members).
- 13. Window and door frames shall be firmly secured in place to blocking between jambs and rough openings at top, bottom and at a maximum interval of 24" between. Nail blocking to rough frame with 16d finish nails at 8"cc staggered, set 1/2".
- 14. All cabinets, lockers, etc. shall be firmly secured in place by 4-8d minimum nails per stud thru plywood back except if cabinets are wall hung, #14 wood screws shall be used in place of nails penetrating the studs 2" minimum. See Architectural drawings for additional anchorage details.
- 15. All joist hangers are to be face-mounted typical, UNO on plans or details. 16. Installation of bolts, lags, screws and washers shall be in accordance with Ch. 10 of the AF&PA National Design Specifications.
- 17. Nails, timber rivets, wood screws, lag screws, nuts, and washers in contact with pressure treated or fire retardant treated wood shall be hot dipped aalvanized minimum.
- 18. All other fasteners in contact with pressure treated or fire retardant treated wood are permitted to have mechanically deposited zinc coating, Class 55 min. 19. Connectors in contact with pressure treated or fire retardant treated wood
- shall comply with manufacturer's recommendations. In absence of manufacturer recommendations, type G185 zinc coated galvanized steel min. 20. All bolted connections, including sill plate AB's & holdown AB's shall be retightened immediately prior to installation of finishes.

♦ Nailing Notes

- 1. All nails for structural work shall be common wire nails unless noted otherwise. 2. Nails shall be spaced not less than 11 diameters on center. Edge or end distances shall not be less than 6 diameters. Nail holes shall be sub- drilled where necessary to prevent splitting of wood. Sub-drill not
- to exceed 3/4 of the shank diameter 3. Where plaster or gyp. bd. ceilings occur, ceiling stripping nails shall be annular grooved shanks, "stronghold" or approved equal. Use 2-16d
- min at each contact. 4. Nailing not noted on this sheet or on details elsewhere, shall be a minimum of 2 nails at each contact using 8d nails thru 1x's and 16d thru 2x's.
- 5. Minimum nailing shall be: A. Studs and posts @ top and bottom to bearing:

Λ.	2x6 & smaller 2-8d TN, ea side or 3-16d
	end nails 2x8
	end nails 2x10 & larger
	end nails 3x6 (sub-drill)
	end nails 3x8 & larger (sub-drill) 4-8d TN, ea side or 5-20d end nails
B.	Joists or rafters: to side of stud up to 8" 3-16d each additional 4" 1-16d additional to bearing
C.	Blocking: to joists, rafters or blkg 2—10d TN, ea side, ea end
	to bearings 2-10d TN, ea side, ea end,
	staggered to studs 2—10d TN or 2—16d ea end
D.	Sheathing: floor —¾" plywood
	(SPPN), 10d at 10"cc at all interior contacts (SPIN) wall −½" plywood
	roof -1/2 or 5/8" plywood 10d at 6"cc at edges of sheets and over all walls (SPPN) 10d at 12"cc at all interior contacts (SPIN)
E.	Ribbons and ledgers to studs: 1x ribbons
F.	Double top plates: upper plate to lower plate 16d at 16"cc staggered corner or intersection
G.	Minimum plate laps: 4'-0" 12-16d ea side
Н.	Multiple studs: stagr for over 4" widths 16d @ 12"cc
I.	Built—up beams: 10" or less
J.	Double joists: not blocked apart
	blocked apart with 2x blocking at 24"cc 2—20d ea end, ea block
K.	T&G decking:

nail each 2x T&G board to each bearing contact with 1-16d straight nail and 1-16d slant nail thru tongue.

6. At metal strap ties, fill all holes with nails UNO. Use nail size & type as specified in allowable load table in the most current Simpson catalog. Where two sizes are given, use larger size. All nails exposed to weather

shall be hot dipped galvanized. 7. All nails driven into pressure treated wood shall be hot dipped galvanized.



- (1"ø max). 19. Concrete mix design shall be prepared by an independent laboratory approved by the school district.
- 20. Welded wire mesh shall be lap spliced two squares minimum in each direction. 21. Notify the Structural Engineer 48 hours prior to placing concrete.
- 22. Reinforcing steel not specifically detailed shall be per ACI 315-17 Detailing Manual.
- 23. All rebar to be welded shall be provided with mill certificates showing chemical analysis and shall be continuously inspected by a qualified special welding inspector. All preheating and welding shall be done by welders certified to weld reinforcing bars in accordance with ANSI/AWS D1.4-11 standards. Use only A706 grade rebar for applications involving welded rebar.

◆ Remodeling and Addition Notes

- 1. It shall be the Contractor's responsibility to make himself familiar with all existing conditions, any existing building plans, and all site conditions which may affect his work. He shall ascertain the extent of demolition work required to complete the structure per
- new plans and be responsible for its safe completion. 2. When existing building plans are available, the Contractor shall keep a full set of such plans at the job site during construction. If any existing conditions are discovered which deviate from these plans or from the new plans, the Contractor shall notify the Architect and Structural Engineer for instruction prior to proceeding with work in the affected area.
- 3. The Contractor shall match existing heights, lines, materials, and conditions unless noted otherwise on new plans.
- 4. The intent of these drawings and specifications is that the work of the alteration, rehabilitation or reconstruction is to be in accordance with Title 24, California Code of Regulations. Should any existing conditions be discovered which is not covered by the contract documents wherein the finished work will not comply with Title 24, California Code of Regulations, a change order, or a separate set of plans and specifications, detailing and specifying the required repair work shall be submitted to and approved by DSA before proceeding with the repair work.
- = **80** psf (Reducible) @ corridors = 5 psf Future Solar Panels Ground Snow, Pg = 0 psf Flat Roof Snow Load = 0 psf Snow Exposure Factor = N/ASnow Load Importance Factor = N/AThermal Factor = N/A◆ Foundation Notes

S1 = **0.29**g

Sd1 = **0.352**g

Rho = **1.3**

= 15 psf

= **20** psf

= **15** psf

= **40** psf

= 20 psf (Reducible)

= 50 psf (Reducible) UNO

Ss = 0.701g

A) N/A

A) N/A

Roof Dead Load

Ext Wall Dead Load

Int Wall Dead Load

Floor Dead Load

Floor Live Load

Roof Live Load

4. VERTICAL LOADS:

Site Class D

Sds = 0.579g

Omega = **2.5**

Seismic Design Category **D**

Horizontal Irregularities:

Vertical Irregularities:

Vbase = CsW = 0.081W (ASD)

Wood Framed Shear Walls, R 6.5

= 0.116W (USD)

- 1. The Contractor shall give the Division of the State Architect and the Structural Engineer a minimum of 48 hours notice before the reinforcing and/or forms are placed in excavated footings.
- 2. Footings shall bear on firm, dry undisturbed soil, depths indicated on
- plans shall be the minimum depth of footing. 3. Excavations shall be cleared of all debris. Standing water shall be removed.
- 4. All foundations are shown and dimensioned as being formed. Foundations may be placed in neat excavations provided footings are increased 1" in width at each vertical face, for a total increase of 2" in width overall.
- 5. At the discretion of the Contractor, foundations can be over-excavated in order to place lean mix concrete to facilitate debris and standina water removal.
- 6. Contractor has the option to use threaded rod (fy=36ksi min) w/dbl nuts @ holdowns and sill bolts. Embedment of holdown bolt is considered as the length projection below the lowest construction joint. 7. Construction joints in foundation shall not occur, except as approved in
- writing by the Structural Engineer and DSA. 8. Soils Report by: Terracon File No.: NA 185174 Dated: December 14, 2018
- 9. Bearing soil is classified as dense silty sand with an estimated allowable soil pressure of 2000 psf for total load (including wind and seismic).

ŴS

Wood Screw

Work Point

Regu 2. Gene unles 3. If correstr 4. Over fram conc 5. Cont cons 6. Prior	construction shall conform to 2016, ulations and all other applicable co- eral Notes, Plan Notes and Typical as noted otherwise in the contract onflicting information is shown on a rictive requirement shall apply. all wall dimensions are typically fro- ned buildings and from face of wal erete tilt—up and CMU buildings. cractor shall verify all dimensions a struction. to fabrication, shop drawings sha review. <u>o drawings:</u> Contractor agrees that the Engineer are not change	des and regul Details shown documents. construction d m & of wall I to face of nd elevations II be submitte shop drawing orders and th	ations. are typical and shall apply ocuments, the most to & of wall at steel wall at wood framed, on the job including existing ed to the Structural Engineer g submittals processed by hat the purpose of shop			
job. 8. Cont occu orde conf 9. Cont form 10. Cont	and installation method he interactor shall verify all dimensions, exerctor shall notify the Architect and irs on any of the contract drawing r material or construct any portion lict is resolved with the affected po- tractor shall be responsible for the is. cractor shall be responsible for the temporary bracing.	ds the design and install of tends to use. elevations and d Structural E s or documer of the buildi arties. design and of	intent by indicating which and by detailing the fabrication property lines etc., on the ingineer where a conflict ats. Contractor is not to ng that is in conflict, until construction of all foundation		nen 91	0
addl agg	additional aggregate	JH	Joist Hanger		730 Hc Sacrar Phone	
alt AB &	alternate Anchor Bolt and	ksi LS	Kips per Square Inch Lag Screw		Se Se Pr	. U
- Arch @	angle Architect/ural at	lwt Iong LLH LLV	light weight Iongitudinal Long Leg Horizontal Long Leg Vertical		7 + ∷	TS
bm blw btwn	beam below between	MB mfgr	Machine Bolt manufacture/d/r		RY /	TEC
olk olkg	block blocking	max Mech	maximum Mechanical			IH
bot 3.0.	bottom Bottom Of (Conc, Ftg, etc)	mtl min	metal minimum		NH SS	\R C
BF prog pldg	Braced Frame bracing building	NA (N)	Neutral Axis new			4
CBC	California Building Code	NC nom	No Camber nominal			
C CIP	Camber Cast In Place	nwt NTS	normal weight Not To Scale	ENSED	ARCHIT	
	ceiling center line center to center	#	number/pounds opening	T OHEN	E E	
cc ctrd C	center to center centered channel	opng OH OD	Opposite Hand Outside Diameter	(★ (¹) C-225	525	
lr ol	clear column	ov/	over	07 <u>12/31</u>	<u>/21</u>	
CJP conc CMU	Complete Joint Penetration concrete Concrete Masonry Unit	PJP pen d	Partial Joint Penetration penetration penny	TT RENEW DATE OF OF	ALIFOR	
CTUP CTUR	Concrete Tilt-up Panel connection	perp pc	perny perpendicular piece			
CJ cont	Construction/Cold Joint continuous	₽ Plumb	plate Plumbing			
contr ctsk	contractor countersink	plywd psf	plywood Pounds per Square Foot Dounds per Square Inch			
liag)S	diagonal Diagonal Sheathing	psi Ibs PDF	Pounds per Square Inch pounds Powder Drive Fastener			
lim	diameter dimension	PCC PT	PreCast Concrete Pressure Treated			
Ibl)F	double Douglas Fir	proj	projection 			S
ln Iwgs	down drawings	R RWL reinf	radius Rain Water Leader reinforce/ing/ment/d	z		Щ
ea IF	each Each Face	reqd rf	required roof	DERNIZATION ISTON SCHOO		δ
W .0.	Each Way Edge Of (Conc, Ftg, etc)	RO	Rough Opening			Ž
Elec elev	Electric/al elevation embedment	sect shtg SMS	section sheathing Sheet Metal Screws			Ļ
embed IN eq	End Nail equal	sim SJ	similar Slab Joint	N N N		
equip E)	equipment existing	spcg sq	spacing square	ST ST ST		Ш
J ext	Expansion Joint exterior	stagr std stl	stagger/ed standard			Ζ
F.O F	Face Of (Conc, Ftg, etc) Finish Floor	sti stiff struct	steel stiffener structure/al	M M M M M		Ш (ワ
lr t	floor foot/feet	SP SPIN	Structural Plywood Structural Plywood			
tg dn rmg	footing foundation framing	SPPN	Interior Nailing Structural Plywood Perimeter Nailing	CONSULTANT		
ja jalv	gage galvanized	thk thrd	thick threaded			
GT GL	Ğirder Truss glu—lam	thru TN T%C	through Toe Nail Tongue and Creeve	PROFES	RICH RE	
gr Jyp	grade gypsum wall board	T&G T&B TFJH	Tongue and Groove Top and Bottom Top Flange Joist Hanger	1010 A 51	AUS NO.	
ngr HWS	hanger Headed Welded Stud	T.O. tran	Top Of (Čonc, Ftg, etc) transverse	Freed	IRA IN	
ndr nt	header height	TWS typ	Threaded Welded Stud typical	The OF CAL	LIFORM	
HSB HD HSS	High Strength Bolt Holdown Hollow Structural Shape	UNO	Unless Noted Otherwise	2/25/2	2020	
HSS Noriz	Hollow Structural Shape horizontal	vert	vertical	PROJECT NO. F 19-32-047	REVISIONS	BY
nfo D	information Inside Diameter	wt WWF	weight Welded Wire Fabric	DATE		
nt	interior	w/	with	2/11/2020		1

S0.1

AS NOTED

DRAWN

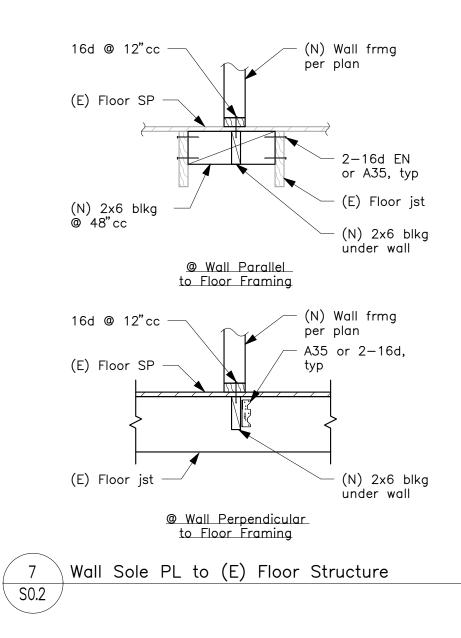
GG CHECKED GIR SCALE

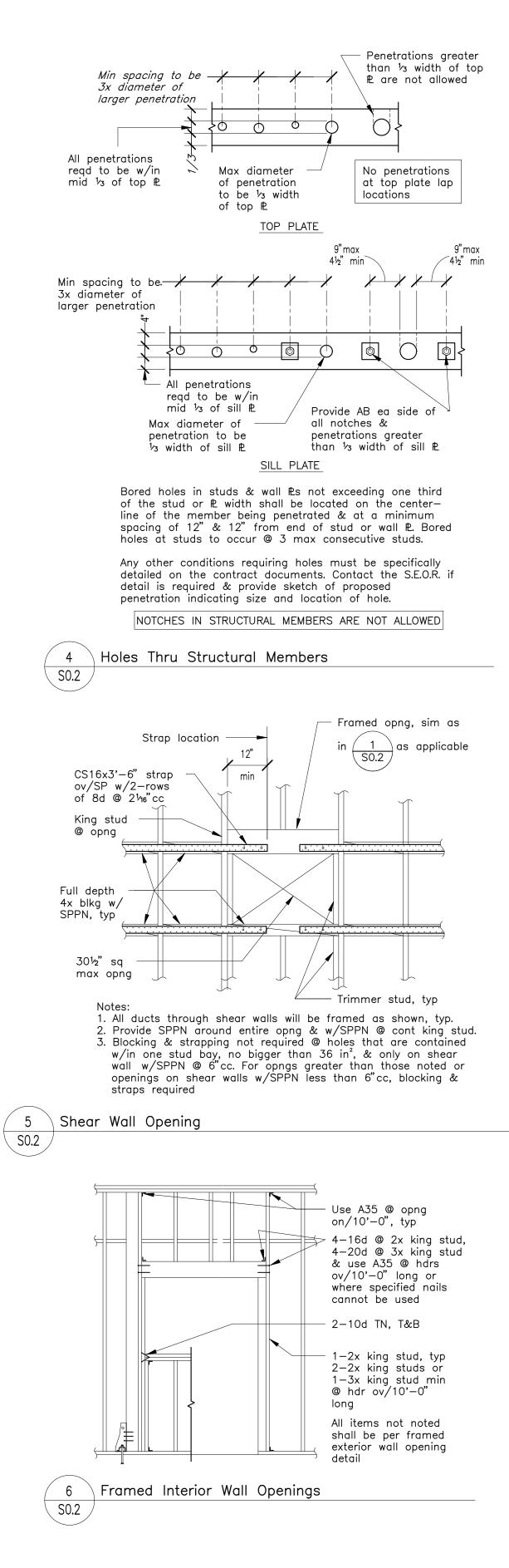
CADFILE

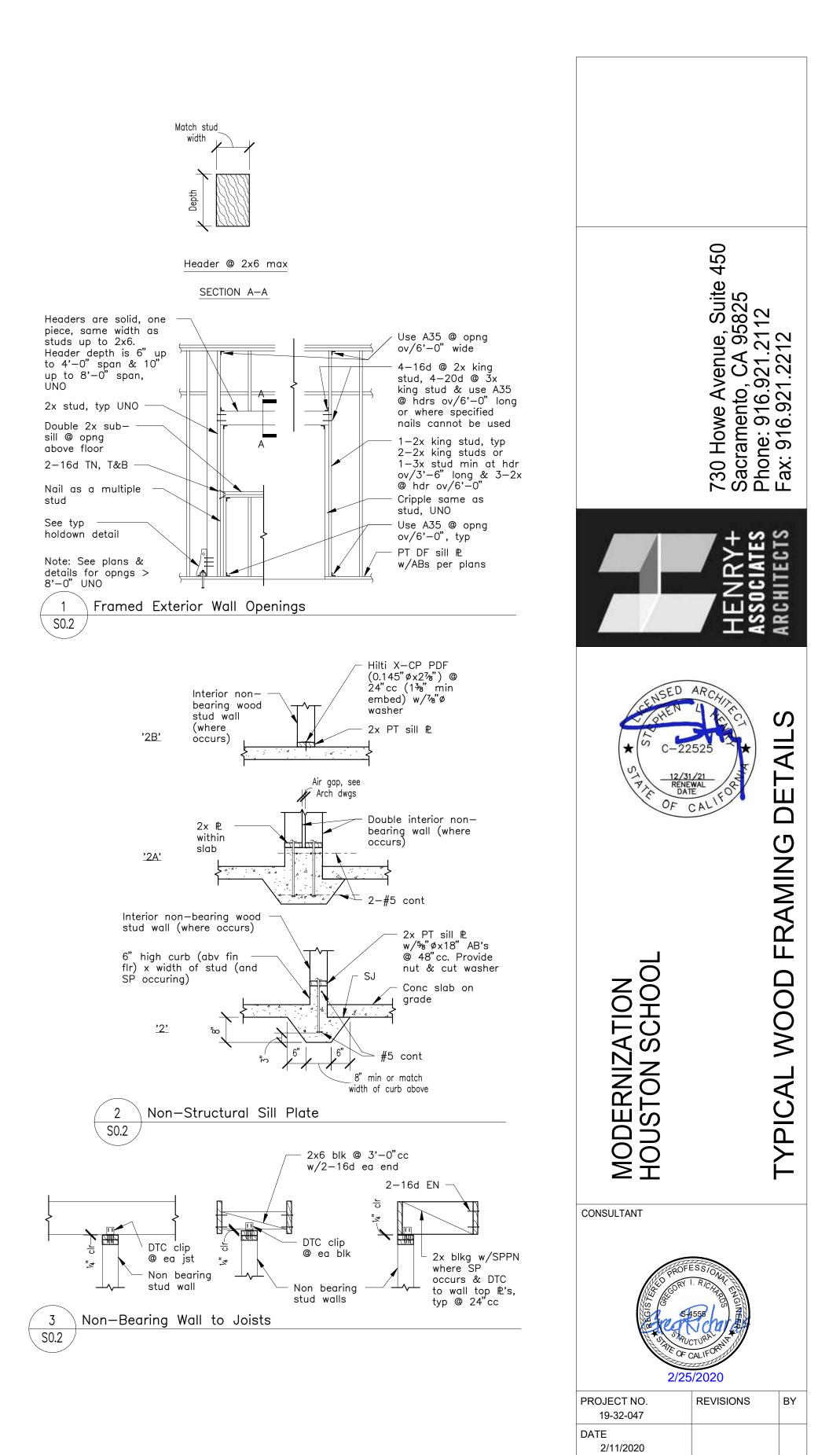
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SHEET NO.

OF 7 SHEETS







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SHEET NO.

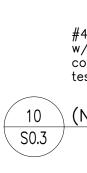
S0.2

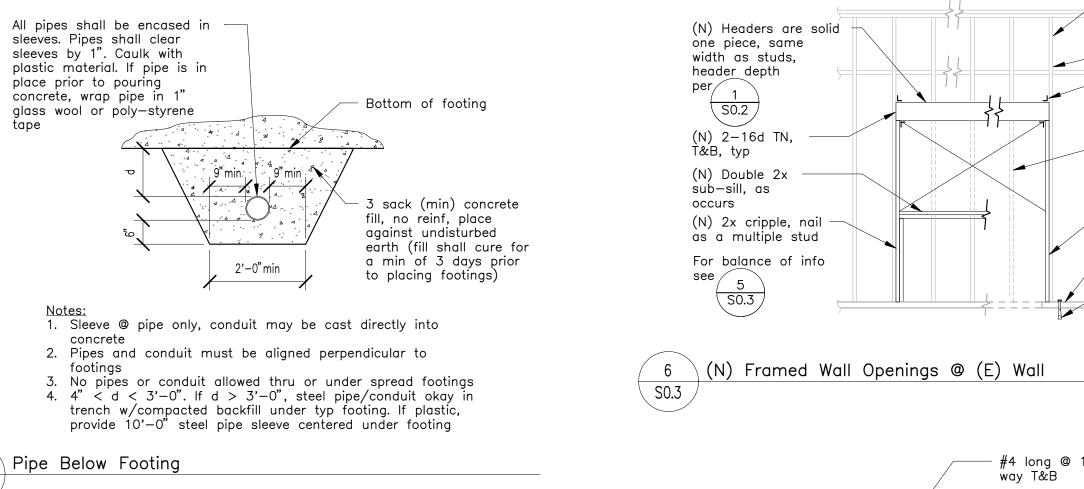
SCALE AS NOTED

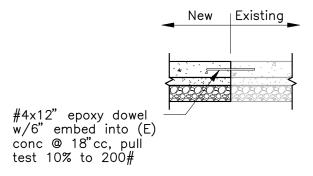
OF 7 SHEETS

tape

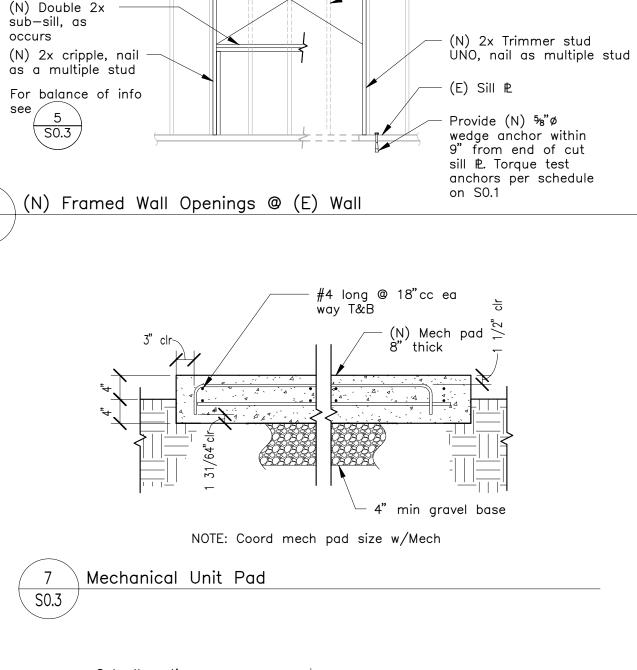
9 S0.3







(N) Slab to (E) Slab on Grade



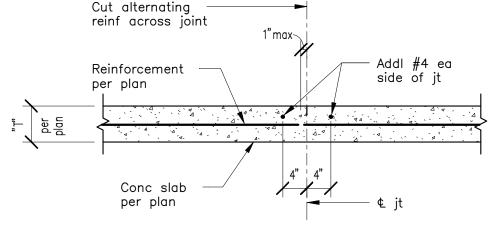
At SP, cut back to flush w/wall stud and provide

Cut (E) studs for opng

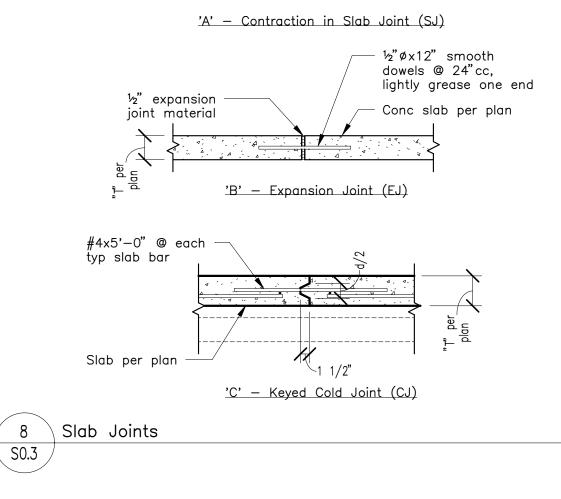
— (E) Studs or posts

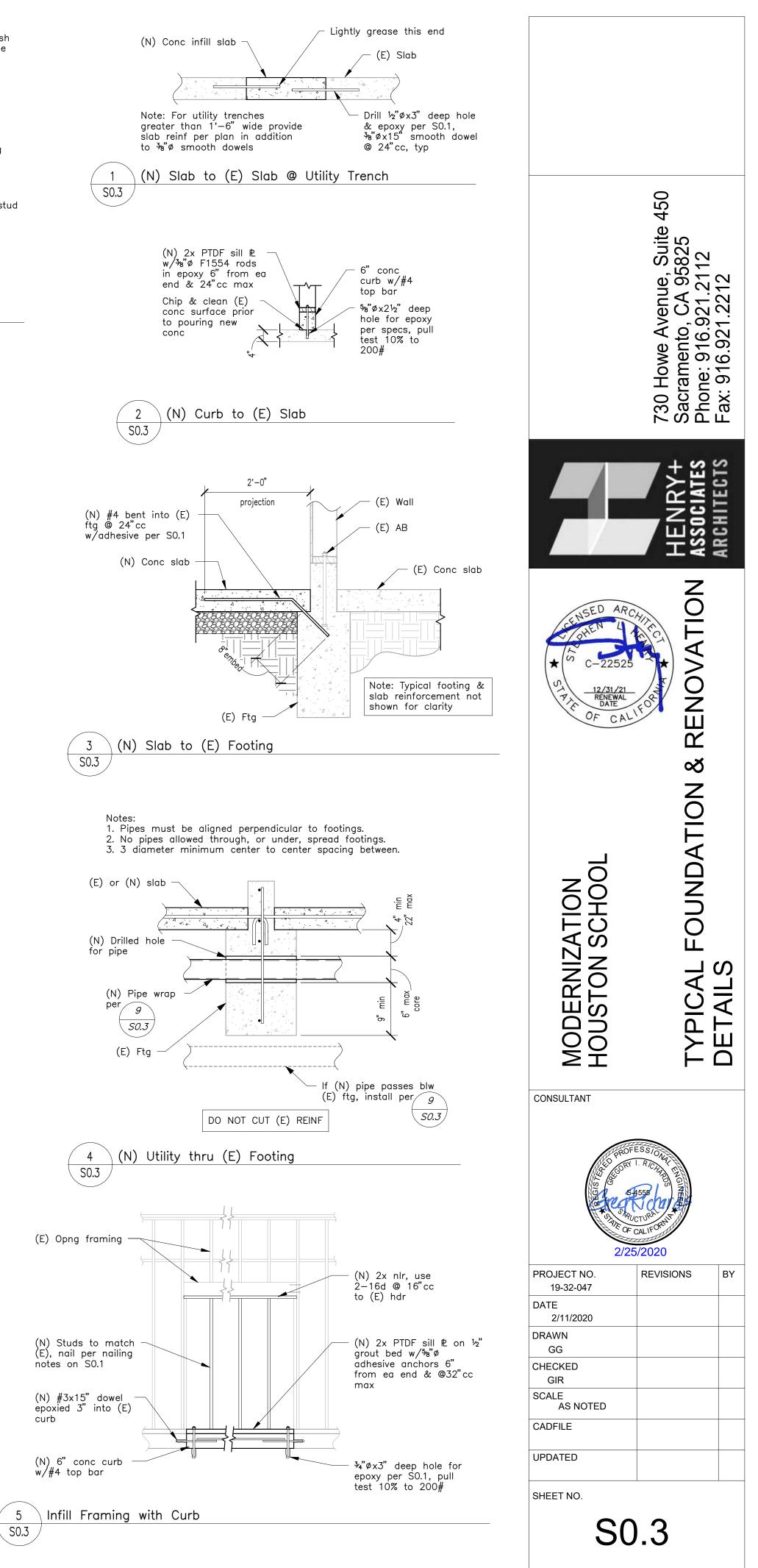
(N) A35 T&B, typ

SPPN



- 1. Form weakened-plane contraction joints, sectioning concrete into areas as indicated (see specifications for area limitations).
- 2. Construct contraction joints for a depth equal to at least one-fourth of concrete thickness (one-inch min). Form contraction joints with power saws equipped with shatterproof abraisive or diamond-rimmed blades. Cut 1/8inch wide joints into concrete when cutting action will not tear, abrade, or otherwise damage surface and before concrete developes random contraction cracks: time frame: one to four hours after last trowel is pulled off. Contractor shall schedule concrete placement so that cuts are made the same day. No saw cutting is permitted for slabs that have been allowed to sit overnight. When saw cutting slabs within the required time frame will not be possible, slab joints with 26ga (min thickness) tongue and groove steel shape shall be provided.

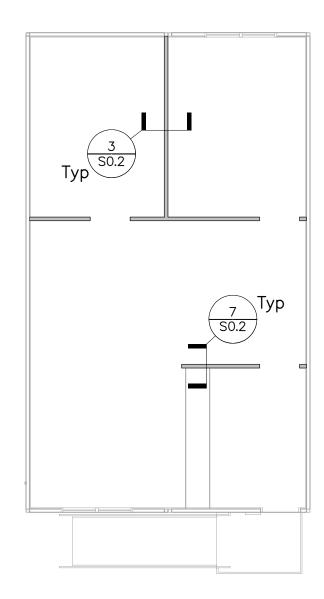




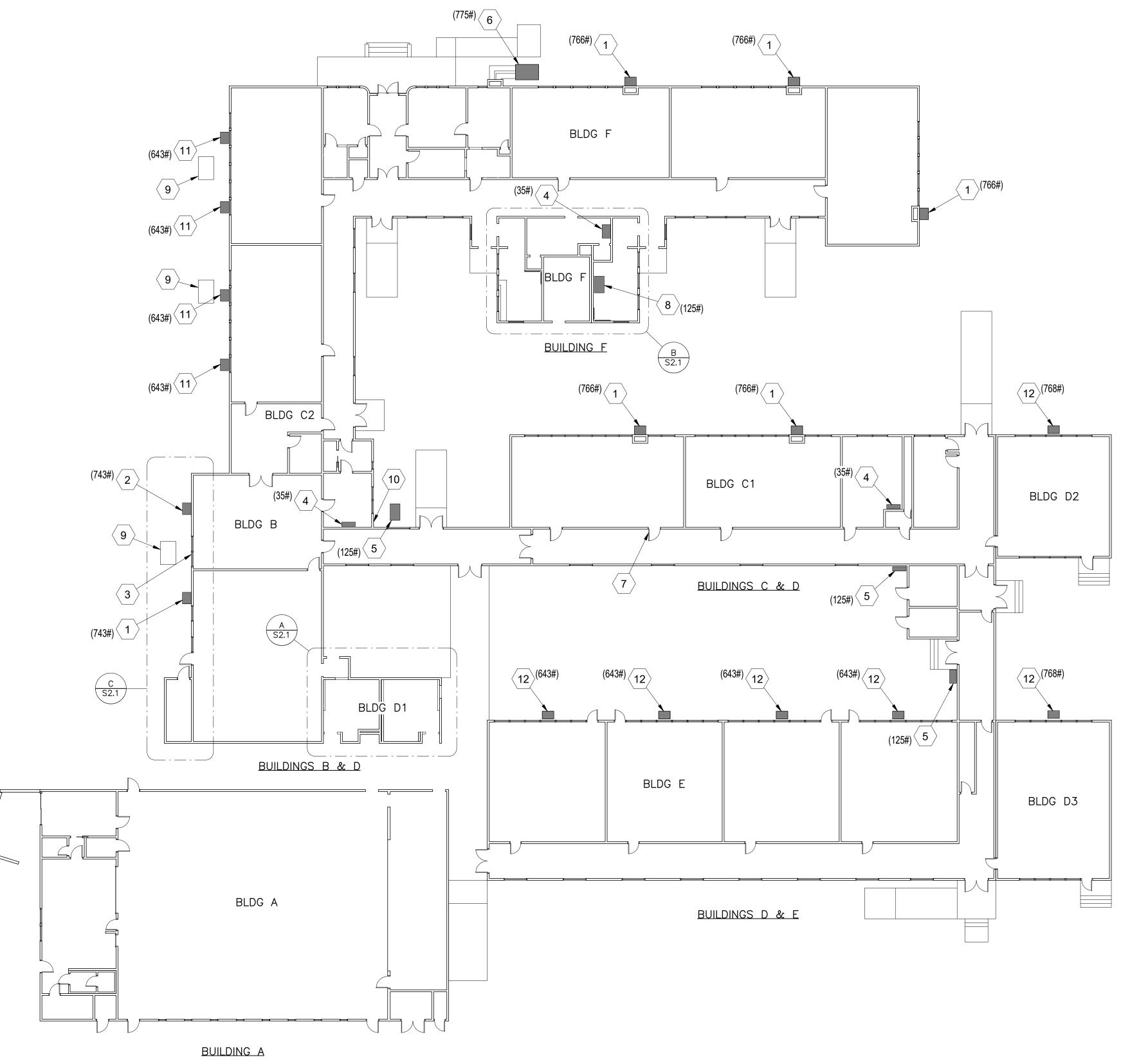
Wall Framing Legend

(E) Wall Framing

(N) Non-structural partition walls. 2x4 wall studs @ 16"cc. Frame walls per 6/S0.2







Structural		Plan
1/16" = 1'-	0"	



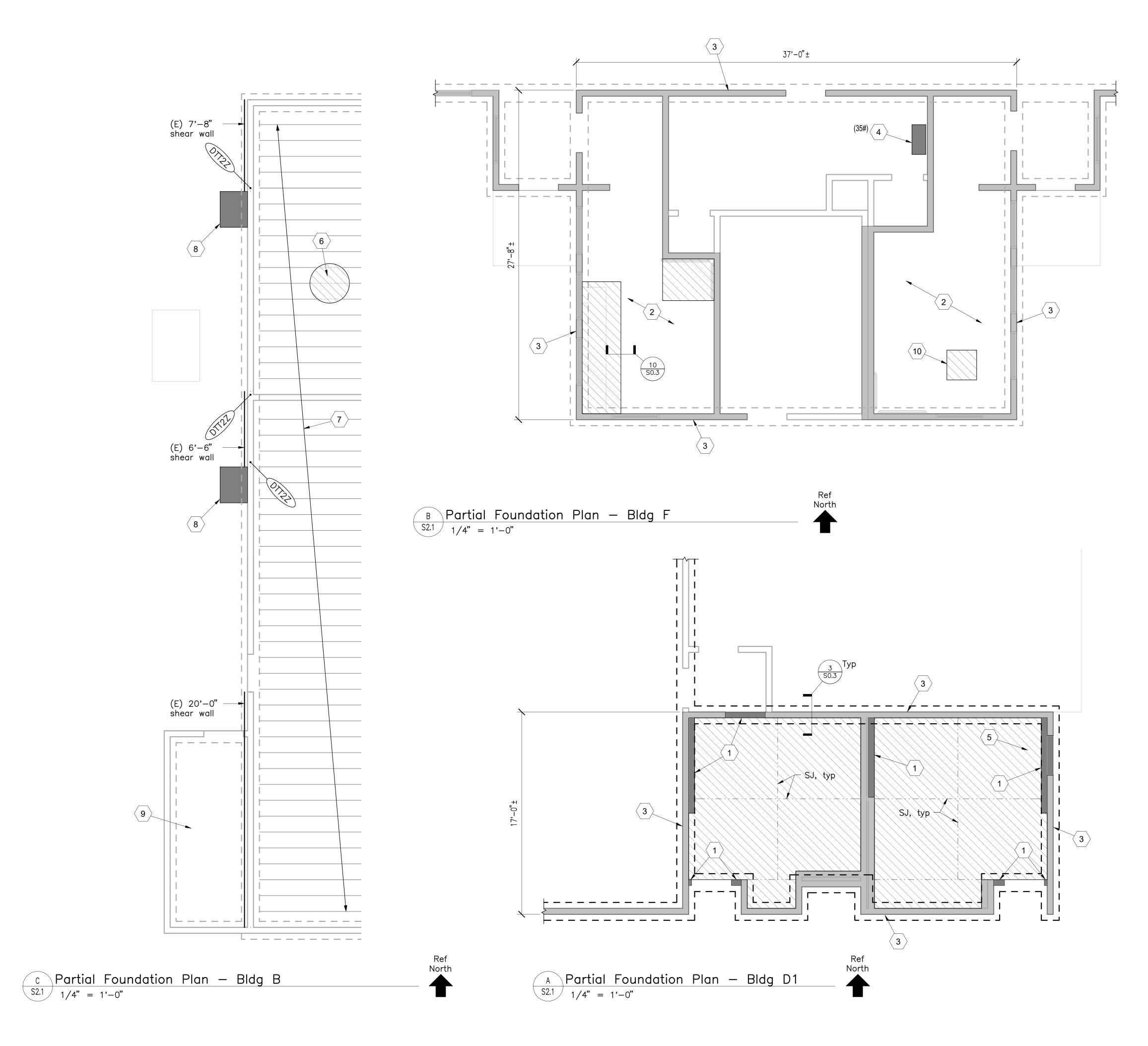
Structural Site Plan Sheet Notes

- 1 Location of (N) wall mounted mechanical unit. Attached to (E) wall framing per 1/S4.1. See mechanical drawings for exact location
- 2 Location of (N) wall mounted mechanical unit. Provide (N) wall opening and attach to (N) wall framing per 2/S4.1. See mechanical drawings for exact location
- 3 Provide infill framing at cripple wall framing at existing duct penetration per 3/S4.1
- (N) Wall mounted unit. Weight in parentheses. See Detail 3/M5.1 for mounting detail
- (N) Floor mounted unit. Weight in parentheses.
 See Detail 2/M5.1 for anchorage
- 6 (N) Unit mounted to (E) concrete exterior slab. Weight in parentheses
- (N) Door opening. See Arch for location. See
 Detail 6/S0.3 for framing modification
- (N) Roof mounted unit. Weight in parentheses. See Detail 1/M5.1 for mounting detail
- $\langle 9 \rangle$ (E) Unit
- 10 Provide blocking around minor (less than 8") new wall opening in (E) wall
- (11) Location of (N) wall mounted mechanical unit. See mechanical drawings for exact location. Remove the existing window and frame. Provide (N) wood infill framing and mount (N) unit to (E) wall framing per 6/S4.1
- 12 Location of (N) wall mounted mechanical unit. See mechanical drawings for exact location. Remove the existing unit's metal frame and concrete slab. Remove the existing window and frame. Provide (N) wood infill framing and mount (N) unit to (E) wall framing per 6/S4.1

	730 Howe Avenue, Suite Sacramento, CA 95825 Phone: 916.921.2112 Fax: 916.921.2212
	HENRY+ Associates Architects
★ C-22525 C-2255 C-225 C-2255 C-2255 C-2255 C-2255 C-2255 C-2255 C-225 C-225 C-225 C-2255 C-225 C-225 C-225 C-225 C-2255 C-225 C-225 C-255 C-225 C-25	G ar
MODERNIZATION HOUSTON SCHOOL	STRUCTURAL SITE PLAN WALL FRAMING - BUILDIN
CONSULTANT	ESSIO
La person La per	4555 CTURAL AUTO CALIFORNIA 5/2020
PROJECT NO. 19-32-047 DATE 2/11/2020 DRAWN GG	REVISIONS BY
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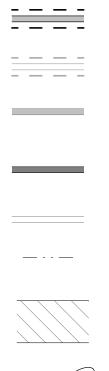
OF 7 SHEETS

450





curb



Approximate extent of (E) slab removal. Replace removed slab per Note 1

(E) Non-structural wall per plan

Slab joint per 8/S0.3

(E) Structural stud wall on 6" high curb on line footing

(E) Concrete stem ov/concrete footing

(E) Non-structural stud wall on 6" high

(N) 6" concrete curb w/(N) 2x6 @ 16"cc wood framed wall, see Detail 5/S0.3



Indicates (N) HD per 5/S4.1

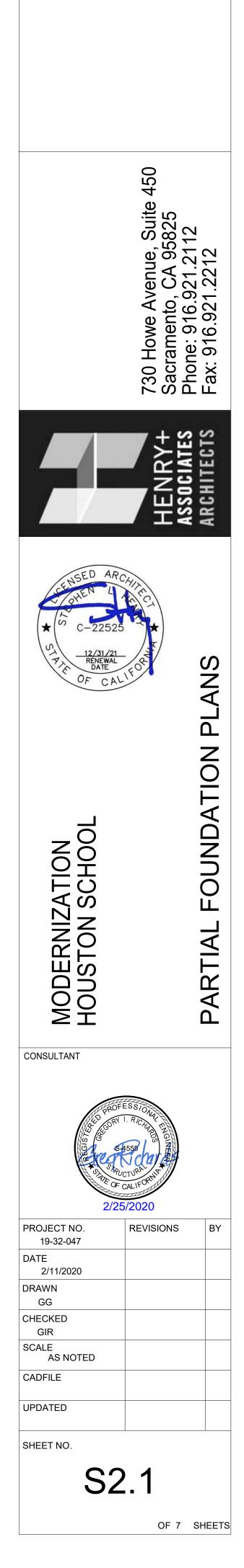
Notes:

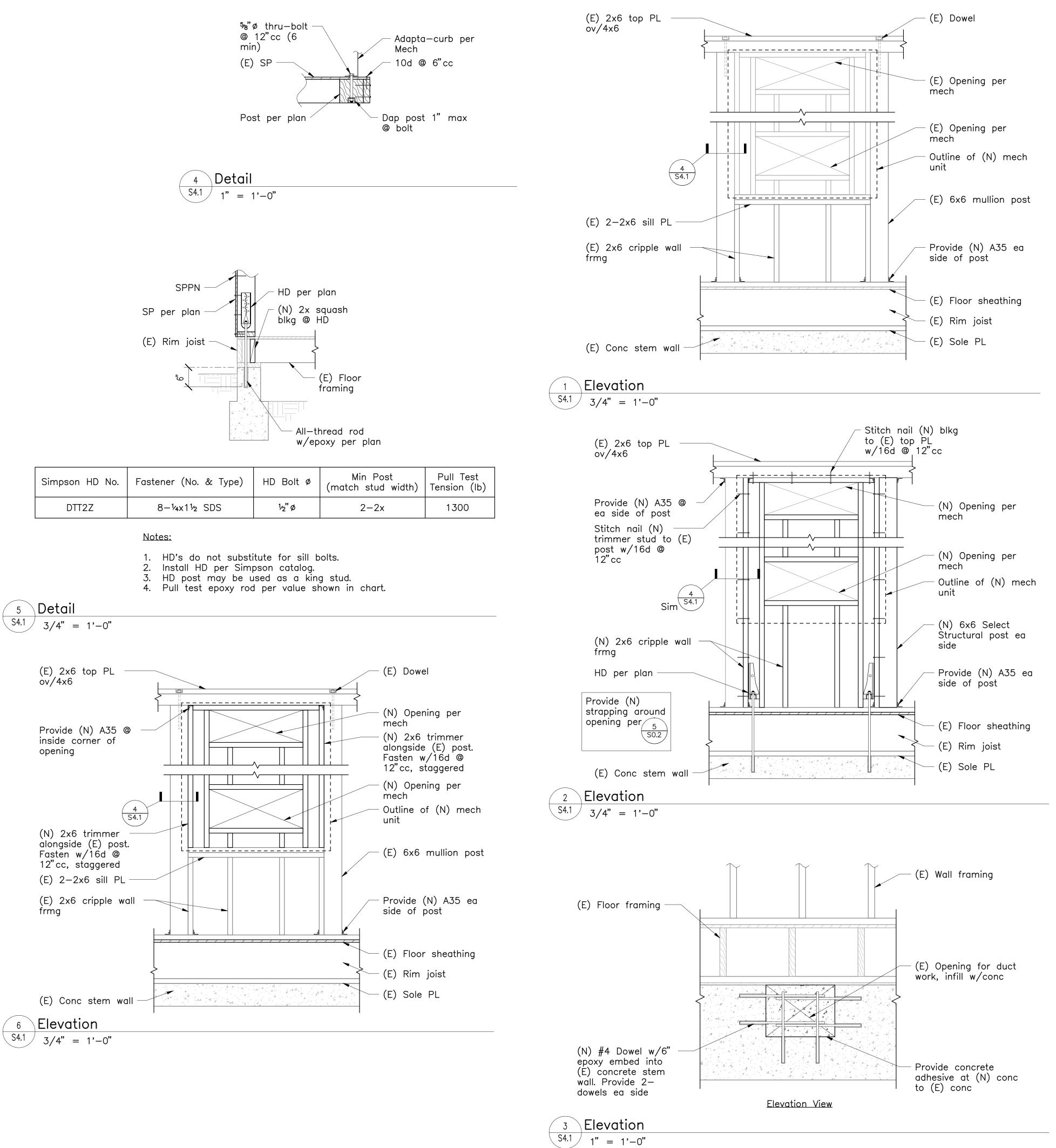
- All interior replaced slabs are to be 4" thick w/#4 ea way @ 18"cc ov/15 mil vapor barrier ov/5" gravel.
 Verify & coordinate all dimensions & elevations w/Arch. Existing stud walls are 2x6 @ 16"cc unless noted otherwise (UNO).
- All existing exterior stud walls are fully sheathed w/3⁸". Structural Plywd (SP).
- 4. All structural stud walls have bolted sill plates per 2/S0.2.
- Non-bearing interior stud walls without curbs have "shot" sills per 2/S0.2 & are not shown on these plans, see Arch dwgs.
 See Arch for special details @ thresholds, metal
- frames, depressed slabs, sloped slabs, floor drains, etc... Depress slabs @ ceramic tile floors per Arch. 7. Exterior slabs are not shown on these plans, see
- Arch & Civil drawings. 8. See detail 4/S0.3 for new utility pipes passing through footings.

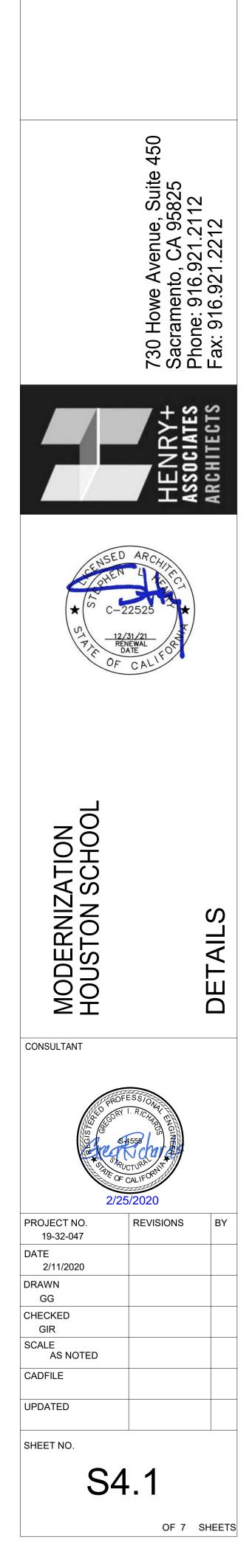
Foundation Plan Sheet Notes

- $\left< 1 \right>$ (N) 6" concrete curb. See details 2/S0.2 and 2/S0.3
- $\langle 2 \rangle$ Provide minor concrete patch as needed
- $\langle \mathbf{3} \rangle$ (E) ¾" SP
- **4** (N) Wall mounted unit. Weight in parentheses. See Detail 3/M5.1 for mounting detail
- $\langle 5 \rangle$ Coordinate plumbing trenches with Plumbing dwgs
- $\langle 6 \rangle$ (E) Plywood floor sheathing
- $\langle 7 \rangle$ (E) Floor framing
- $\langle 8 \rangle$ (N) Unit per plan
- $\langle 9 \rangle$ (E) Slab on grade
- (10) (N) Slab removal and replacement for (N) floor drain

NOTE: Contractor to coordinate slab removal with Plumbing drawings

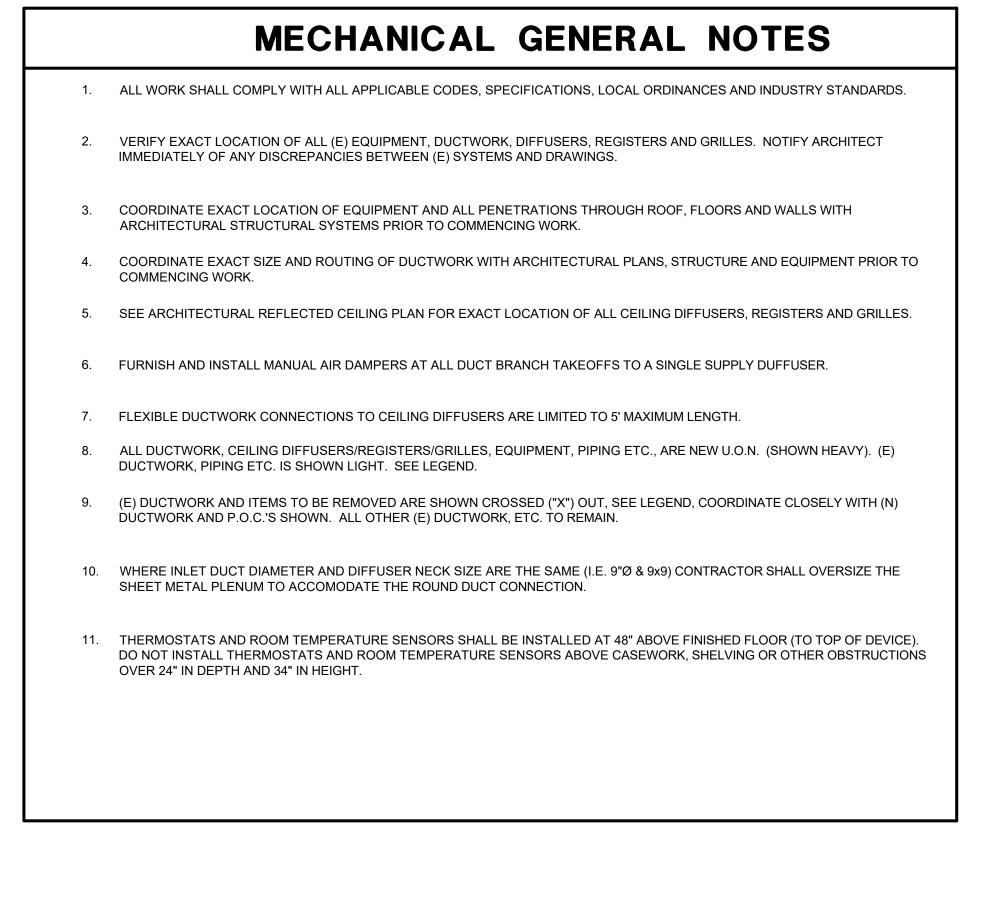






Q	С	
INI	%	

C	DIFFUSER,	REGIST	'ER & (GRILLE	SCHED	ULE
SYMBOL	DESCRIPTION	KRUEGER	METALAIRE	NAILOR	TITUS	TUTTLE & BAILEY
CD X	MODULAR CORE SURFACE MOUNT CEILING DIFFUSER BEVEL FRAME Ž" DROP	1240 FRAME 21 - 1""	9000-2	7500-S	MCD BORDER TYPE 6	SQD-SB
CD-2	MODULAR CORE SURFACE MOUNT CEILING DIFFUSER FLAT FRAME	1240 FRAME 22	9000-1	7500-B	MCD BORDER TYPE 1	SQD-SF
CDL	MODULAR CORE LAY-IN CEILING DIFFUSER FOR T-BAR CEILING 24x24 PANEL	1240 FRAME 23	9000-6P	7500-L	MCD BORDER TYPE 3	SQD-LT
CR	CEILING RETURN WITH " EGG CRATE CORE SURFACE MOUNT	EGC-5	CC5D	61 EC-S	MODEL 50 F BORDER TYPE 1	CRE500-SF
CRL	CEILING RETURN WITH " EGG CRATE CORE IN 24x24 PANEL FOR T-BAR CEILING	EGC-5TB	CC5D-TBD	61 EC-L	MODEL 50 F BORDER TYPE 3	CRE500-LT
s * [×]	DOUBLE DEFLECTION SUPPLY GRILLE WITH VERTICAL FRONT BARS, Ž" SPACING	880 V	V 4004 S	61 DV	300 RS	T54
R&E [*]	RETURN OR EXHAUST GRILLE WITH 35° OR 45° HORIZONTAL BARS.	S 80 H	SRH	7145 H	350 RL	T70D
sg ∑ ∑	SOFFIT GRILLE - HEAVY DUTY SINGLE DEFLECTION GRILLE WITH 10 GAUGE, " WOVEN STEEL MESH SECURED BEHIND FACE BARS. PROVIDE PLASTER FRAME IN PLASTER SOFFIT	S 480 H WITH '" MESH AND PF WHERE REQUIRED	HDRH WITH '" MESH AND PF WHERE REQUIRED	6145 HD WITH " MESH & PLASTER FRAME WHERE REQUIRED	33 RL HD WITH '" MESH AND PF WHERE REQUIRED	T75D WITH '" MESH AND PF WHERE REQUIRED
RH & EH	HEAVY DUTY RETURN OR EXHAUST GRILLE WITH 35° OR 45° HORIZONTAL BARS	S 480 H	HDRH	6145 HD	33 RL	T115H-40
NOTES:	1. ALL SYMBOLS NOTED MAY NOT E REFER TO PLANS FOR SIZE AND			ORDINATE DIFFUSER TYP FLECTED CEILING PLAN.	PE WITH	
 ALL SUPPLY AIR DIFFUSERS ARE 4 WAY BLOW UNLESS SHOWN OTHERWISE. FURNISH ALL PRODUCTS OF A SINGLE MANUFACTURER. 		REG GR 6. PRG BR/	POSED BLADE DAMPERS QUIRED AT DIFFUSERS, F ILLES. OVIDE MANUAL AIR DAMF ANCH DUCT TO A SINGLE	REGISTERS OR PERS AT EACH		
	* FOR SHOWERS AND DAMP AREAS		RE	GISTER OR GRILLE.		



	MECHA	NICAL LEGEND		IECHANIC
SYMBOL	ABBREVIATION	DESCRIPTION	SYMBOL	ABBREVIATION
	ABV	ABOVE		KW
	ABC	ABOVE CEILING		КШН
	AF	ABOVE FLOOR		LDB
	AFF	ABOVE FINISHED FLOOR		LWB
	AFG	ABOVE FINISHED GRADE		LRA
$\mathbf{\nabla}$	AD , AP	ACCESS DOOR , ACCESS PANEL		LVR
	AC	AIR CONDITIONING		MAD, MD
	APD	AIR PRESSURE DROP, INCHES WATER COLUMN	\square	MAV
	AB	ANCHOR BOLT		MFR
	BDD	BACK DRAFT DAMPER		MAX
	BF	BELOW FLOOR		MIN
	BHP	BRAKE HORSE POWER		MCC
	BTU(H)	BRITISH THERMAL UNITS (PER HOUR)		(N)
	СС	CENTER TO CENTER		OA
	CLG	CEILING		OAD
	CEF	CEILING EXHAUST FAN		OD
	CLR	CLEAR		OV
	CONC	CONCRETE		ОН
—— CD ——	CD	CONDENSATE DRAIN		POC
	CONN	CONNECT OR CONNECTION		LBS
	CONT	CONTINUATION	RG	RG
	CONTR	CONTRACTOR	RS	RS
	CFM	CUBIC FEET OF AIR FLOW PER MINUTE	RL	RL
	DPR	DAMPER		RA
°F		DEGREES FAHRENHEIT		RAD
-	DIA	DIAMETER , PHASE		RPM
	DL	DOOR LOUVER		RLA
	DN	DOWN		SM
	DB	DRY BULB (DEGREES FAHRENHEIT)	<u> </u>	SD
	EP	ELECTRICAL PANEL	SD SD	SKD
	EL	ELEVATION		SQFT, FT``2~~
	ENT	ENTERING		SQIN, IN``2
	EDB	ENTERING DRY BULB		SP
	EW	ENTERING WATER		SPD
	EWT	ENTERING WATER TEMPERATURE		SA
	EWB	ENTERING WET BULB		SF
	EVAP	EVAPORATOR		TCP
	EC	EVAPORATIVE COOLER		TCV
	EA	EXHAUST AIR		т
	EAD	EXHAUST AIR DAMPER		
	EF	EXHAUST FAN		MBH
	(E), EXIST	EXISTING		ТА
-x x x	(E)	EXISTING TO BE REMOVED		ТВ
	ESP	EXTERNAL STATIC PRESSURE		TP
	FPM	FEET PER MINUTE		TSP
F	FD	FIRE DAMPER		TYP
FS	FS	FIRE/SMOKE DAMPER		UG
	FC	FLEXIBLE CONNECTION		UCD
	FLR	FLOOR		UON
>		FLOW IN DIRECTION OF ARROW		WPD
	FLV	FLOW LIMITING VALVE		W
	FA	FROM ABOVE		WT
	FB	FROM BELOW		WB
	FLA	FULL LOAD AMPS		WMS
	GALV	GALVANIZED		WP
	GI	GALVANIZED IRON		
	GA	GAUGE		
	HTG	HEATING		

PIPING, DUCTWORK & ELECTRICAL **DISTRIBUTION SYSTEM BRACING NOTE**

PIPING, DUCTWORK, AND ELECTRICAL DISTRIBUTION SYSTEMS SHALL BE BRACED TO COMPLY WITH THE FORCES AND DISPLACEMENTS PRESCRIBED IN ASCE 7-10 SECTION 13.3 AS DEFINED IN ASCE 7-10 SECTION 13.6.5.6, 13.6.7, 13.6.8, AND 2016 CBC, SECTIONS 1616A.1.23, 1616A.1.24, 1616A.1.25 AND 1616A.1.26.

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

MECHANICAL PIPING (MF SYSTEMS (E):), MECHANICAL DUCTS (MD), PLUMBING PIPING (PP), ELECTRICAL DISTRIBUTION
MPXIMDXIPPIEI	OPTION 1: DETAILED ON THE APPROVED DRAWINGS WITH PROJECT SPECIFIC NOTES AND DETAILS
MPXIMDXIPPDED	OPTION 2: SHALL COMPLY WITH THE APPLICABLE OSHPD PRE-APPROVED (OPM #) #0052-13, #0043-13
MP MD PP	OPTION 3: SHALL COMPLY WITH THE SMACNA SEISMIC RESTRAINT MANUAL. OSHPD EDITION (2009), INCLUDING ANY ADDENDA. FASTENERS AND OTHER ATTACHMENTS NOT SPECIFICALLY IDENTIFIED IN THE SMACNA SEISMIC RESTRAINT MANUAL, OSHPD EDITION, ARE DETAILED ON THE APPROVED DRAWINGS WITH PROJECT SPECIFIC NOTES AND DETAILS. THE DETAILS SHALL ACCOUNT FOR THE APPLICABLE SEISMIC HAZARD LEVEL AND CONNECTION LEVEL FOR THE PROJECT AND CONDITIONS.

MEP COMPONENT ANCHORAGE NOTE

ALL MECHANICAL, PLUMBING, AND ELECTRICAL COMPONENTS SHALL BE ANCHORED AND INSTALLED PER THE DETAILS ON THE DSA APPROVED CONSTRUCTION DOCUMENTS. WHERE NO DETAIL IS INDICATED, THE FOLLOWING COMPONENTS SHALL BE ANCHORED OR BRACED TO MEET THE FORCE AND DISPLACEMENT REQUIREMENTS PRESCRIBED IN THE 2016 CBC, SECTIONS 1616A.1.18 THROUGH 1616A.1.26 AND ASCE 7-10 CHAPTER 13, 26 AND 30.

1. ALL PERMANENT EQUIPMENT AND COMPONENTS.

- 2. TEMPORARY OR MOVABLE EQUIPMENT THAT IS PERMANENTLY ATTACHED (e.g. HARD WIRED) TO THE BUILDING UTILITY SERVICES SUCH AS ELECTRICITY, GAS OR WATER.
- 3. MOVABLE EQUIPMENT WHICH IS STATIONED IN ONE PLACE FOR MORE THAN 8 HOURS AND HEAVIER THAN 400 POUNDS OR HAS A CENTER OF MASS LOCATED 4 FEET OR MORE ABOVE THE ADJACENT FLOOR OR ROOF LEVEL THAT DIRECTLY SUPPORT THE COMPONENT ARE REQUIRED TO BE

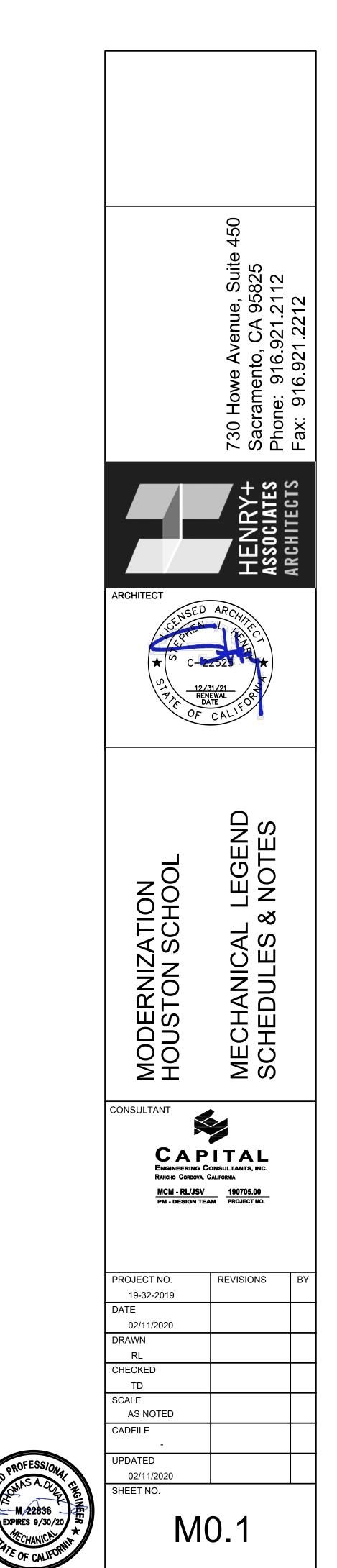
THE FOLLOWING MECHANICAL AND ELECTRICAL COMPONENTS SHALL BE POSITIVELY ATTACHED TO THE AND CONDUIT.

- 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.

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

L LEGEND cont'd
DESCRIPTION
KILOWATTS
KILOWATT HOUR
LEAVING DRY BULB IN DEGREES FAHRENHEIT
LEAVING WET BULB IN DEGREES FAHRENHEIT
LOCKED ROTOR AMPERES
LOUVER
MANUAL AIR DAMPER
MANUFACTURER
MAXIMUM
MOTOR CONTROL CENTER
OUTLET VELOCITY OVERHEAD
POINT OF CONNECTION
POINT OF CONNECTION POUNDS
REFRIGERANT GAS PIPING
REFRIGERANT SUCTION PIPING
REFRIGERANT LIQUID PIPING
RETURN AIR
RETURN AIR DAMPER
REVOLUTIONS PER MINUTE
RUNNING LOAD AMPERES
SHEET METAL
SMOKE DAMPER
SMOKE DETECTOR
SQUARE FEET
SQUARE INCHES
STATIC PRESSURE
STATIC PRESSURE DROP
SUPPLY AIR
SUPPLY FAN
TEMPERATURE CONTROL PANEL
TEMPERATURE CONTROL VALVE
THERMOSTAT, "X" INDICATES DEVICE CONTROLLED. 48" MAX. AFF
(TO TOP OF STAT)
THOUSAND BRITISH THERMAL UNITS PER HOUR
TO ABOVE
TO BELOW
TOTAL PRESSURE
TOTAL STATIC PRESSURE
TYPICAL
UNDERGROUND
UNDER CUT DOOR
UNLESS OTHERWISE NOTED
WATER PRESSURE DROP
WATTS
WEIGHT
WET BULB
WIRE MESH SCREEN
WORKING PRESSURE

- ANCHORED WITH TEMPORARY ATTACHMENTS.
- STRUCTURE, BUT THE ATTACHMENT NEED NOT BE DETAILED ON THE PLANS. THESE COMPONENTS SHALL HAVE FLEXIBLE CONNECTIONS PROVIDED BETWEEN THE COMPONENT AND ASSOCIATED DUCTWORK, PIPING,



M 22836 -

OF XX SHEETS

Q	С	
INI	%	

"JCI" Model No. (Indoor Unit) CFM FAN MCA LOCATION UNIT SHPI B1 335 WORK B101 DHX18NWB21S TO 0.38 559 C1 335 TO RSP C103 0.38 DHX18NWB21S 559 SHPI E1 335 TO SPEECH E106 DHX18NWB21S 0.38 559 SHPI F1 335 TO WORK F118 0.38 DHX18NWB21S -559 NOTES: 1. PROVIDE WITH FACTORY FILTERS.

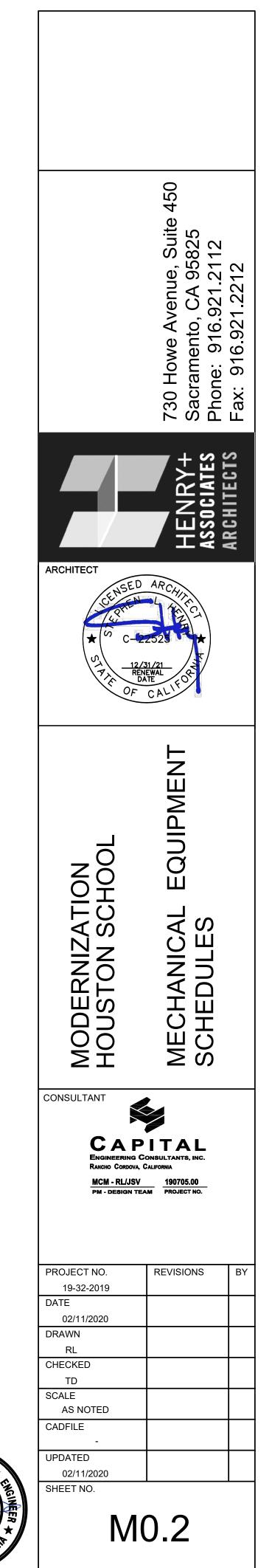
2. PROVIDE WITH FACTORY "PELICAN" STAT. 3. PROVIDE WITH WASHABLE FILTER.

4. INDOOR FA 5. PROVIDE "R CONSUMPT PUMP ON W

	NEW "BARD" LESS SENS. TOTAL EVAP. ELECTRIC HEATING ELECTRICAL DATA																								
NEW UNIT	LOCATION	"BARD" MODEL	CFM	MIN.	ESP (IN. W.G.)	SENS. COOLING CAP.	TOTAL COOLING CAP.	_	AP.	ELECTRIC HEATING NOMINAL HEAT	VOLT/PH	SUPPL	E Y FAN		CAL D		COND	D. FAN	мса	моср	EER	OPER. WT.	MOUNTING DETAIL	CONTROL DIAGRAM	NOTES
DESIGNATION		NO.		0.A. (CFM)	W.G.)	(BTUH)	(BTUH)		(°F)	SIZE KW	VOL1/PH	HP	FLA	QTY	RLA	LRA	HP	FLA				(LBS.)		2774	
WHP B1	LIBRARY B105	C60H1-B06SP4XXE	1650	UPPER 450 LOWER 230	0.5	40,300	55,500	80.0	67.0	6.0	208V/3PH	3/4	4.7	1.0	13.1 14.2	153	1/2	4.1	50	60	11.0	766	2 M5.2	2 M6.3	1, 2, 3, 4, 5, 6
WHP C1	CLASSROOM 6 C101	C60H1-B06SP4XXE	1650	UPPER 450 LOWER 165	0.5	40,300	55,500	80.0	67.0	6.0	208V/3PH	3/4	4.7	1.0	13.1 14.2	153	1/2	4.1	50	60	11.0	766	2 M5.2	2 M6.3	1, 2, 3, 4, 5, 6
WHP C2	CLASSROOM 7 C102	C60H1-B06SP4XXE	1650	UPPER 450 LOWER 150	0.5	40,300	55,500	80.0	67.0	6.0	208V/3PH	3/4	4.7	1.0	13.1 14.2	153	1/2	4.1	50	60	11.0	766	2 M5.2	2 M6.3	1, 2, 3, 4, 5, 6
WHP F1	CLASSROOM 3 F103	C60H1-B06SP4XXE	1650	UPPER 450 LOWER 145	0.5	40,300	55,500	80.0	67.0	6.0	208V/3PH	3/4	4.7	1.0	13.1 14.2	153	1/2	4.1	50	60	11.0	766	2 M5.2	2 M6.3	1, 2, 3, 4, 5, 6
WHP F2	CLASSROOM 2 F102	C60H1-B06SP4XXE	1650	UPPER 450 LOWER 145	0.5	40,300	55,500	80.0	67.0	6.0	208V/3PH	3/4	4.7	1.0	13.1 14.2	153	1/2	4.1	50	60	11.0	766	2 M5.2	2 M6.3	1, 2, 3, 4, 5, 6
WHP F3	CLASSROOM 1 F101	C60H1-B06SP4XXE	1650	UPPER 450 LOWER 145	0.5	40,300	55,500	80.0	67.0	6.0	208V/3PH	3/4	4.7	1.0	13.1 14.2	153	1/2	4.1	50	60	11.0	766	2 M5.2	2 M6.3	1, 2, 3, 4, 5, 6
2. 3.	 INTES: 1. UNIT SELECTED AT 101F DB / 70°F WB SUMMER AMBIENT, AND 23°F DB WINTER AMBIENT AIR TEMPERATURES. PROVIDE WITH 2" 30% THROWAWAY FILTER SINGLE STAGE COOLING WITH 100% OSA HOOD AND STAINLESS STEEL HEAT EXCHANGER. C. CLASSROOMS TO HAVE ECONOMIZER CONTROL THROWOND AND STAINLESS STEEL HEAT EXCHANGER. C. CLASSROOMS TO HAVE ECONOMIZER CONTROL THROWOND AND STAINLESS STEEL HEAT EXCHANGER. C. CLASSROOMS TO HAVE ECONOMIZER CONTROL THROWOND AND STAINLESS STEEL HEAT EXCHANGER. C. CLOWER OUTSIDE AIR POSITION INDICATED IS BASED ON 0.15 CFM/SQ.FT., ALLOWABLE FOR CO2 DEMAND CONTROLLED SYSTEMS AT MINIMUM OCCUPANCY. UPPER OUTSIDE AIR POSITION INDICATED IS BASED ON 15 CFM/OCCUPANT WHEN SPACE IS AT MAXIMUM OCCUPANCY, UNLESS SYSTEM IS IN ECONOMIZER MODE. SEE CONTROLS FOR SEQUENCE OF OPERATION. FOR THESE UNITS WITH CO2 CONTROL, ENTERING TEMPERATURES SCHEDULED REPRESENT CONDITIONS AT UPPER OSA POSITION. 																								

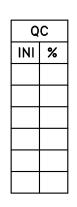
				GA	AS/	/ELEC	TRIC	W	/AL	L M	IOUN	IT /	AC U	NIT	S	СН	ED	UL	Ε									
NEW		NEW "BARD"		I	ESP	SENS. COOLING		EV	AP.	GA	AS HEATIN	G			E	LECTRI	CAL DA	ATA						THERMAL	OPER.	MOUNTING	CONTROL	
UNIT DESIGNATION	LOCATION	MODEL	CFM	MIN. O.A.	ESP (IN. W.G.)	CAP.	COOLING CAP.	EDB	EWB	INPUT	OUTPUT	HX/EDB	VOLT/PH		Y FAN		MPRESS		COND		MCA	моср	EER	EFF'Y (%)	WT. (LBS.)	DETAIL	CONTROL DIAGRAM	NOTES
		NO.			W.G./	(BTUH)	(BTUH)	(°F)	(°F)	(BTUH)	(BTUH)	(°F)		HP	FLA	QTY	RLA	LRA	HP	FLA				(/0)	(LB3./			
WAC B1	INTERVENTION 15 B104	WG4S2-AXAEX4XXH	1400	UPPER 450 LOWER 130	0.5	34,375	46,500	80.0	67.0	50,000	41,000	70.0	208V/1PH	3/4	4.7	1	8.8 8.9	73	1/3	2.5	36	45	11.7	82.0	743	1, 2 M5.2	1 M6.3	1, 2, 3, 4, 5, 6
WAC D1	CLASSROOM 8 D101	WG5S2-AXAEX4XXH	1600	UPPER 450 LOWER 145	0.5	40,800	56,500	80.0	67.0	50,000	41,000	70.0	208V/1PH	3/4	6.0	1	12.8 14.1	110	1/3	2.5	45	60	11.2	82.0	768	1,2 M5.2	1 M6.3	1, 2, 3, 4, 5, 6
WAC D2	CLASSROOM 9 D102	WG5S2-AXAEX4XXH	1600	UPPER 450 LOWER 185	0.5	40,800	56,500	80.0	67.0	50,000	41,000	70.0	208V/1PH	3/4	6.0	1	12.8 14.1	110	1/3	2.5	45	60	11.2	82.0	768	1,2 M5.2	1 M6.3	1, 2, 3, 4, 5, 6
WAC E1	CLASSROOM 14 E102	WG3S2-AXAEX4XXH	1100	UPPER 450 LOWER 150	0.5	26,475	35,600	80.0	67.0	50,000	41,000	70.0	208V/1H	1/2	3.6	1	8.8 8.9	73	1/3	2.5	27	40	11.3	82.0	643	1,2 M5.2	1 M6.3	1, 2, 3, 4, 5, 6
WAC E2	CLASSROOM 12 E103	WG3S2-AXAEX4XXH	1100	UPPER 450 LOWER 150	0.5	26,475	35,600	80.0	67.0	50,000	41,000	70.0	208V/1H	1/2	3.6	1	8.8 8.9	73	1/3	2.5	27	40	11.3	82.0	643	1,2 M5.2	1 M6.3	1, 2, 3, 4, 5, 6
WAC E3	CLASSROOM 11 E104	WG3S2-AXAEX4XXH	1100	UPPER 450 LOWER 150	0.5	26,475	35,600	80.0	67.0	50,000	41,000	70.0	208V/1H	1/2	3.6	1	8.8 8.9	73	1/3	2.5	27	40	11.3	82.0	643	1,2 M5.2	1 M6.3	1, 2, 3, 4, 5, 6
WAC E4	CLASSROOM 10 E105	WG3S2-AXAEX4XXH	1100	UPPER 450 LOWER 150	0.5	26,475	35,600	80.0	67.0	50,000	41,000	70.0	208V/1H	1/2	3.6	1	8.8 8.9	73	1/3	2.5	27	40	11.3	82.0	643	1,2 M5.2	1 M6.3	1, 2, 3, 4, 5, 6
WAC F1	CLASSROOM 4 F112	WG3S2-AXAEX4XXH	1100	UPPER 450 LOWER 150	0.5	26,475	35,600	80.0	67.0	50,000	41,000	70.0	208V/1H	1/2	3.6	1	8.8 8.9	73	1/3	2.5	27	40	11.3	82.0	643	1,2 M5.2	1 M6.3	1, 2, 3, 4, 5, 6
WAC F2	CLASSROOM 4 F112	WG3S2-AXAEX4XXH	1100	UPPER 450 LOWER 150	0.5	26,475	35,600	80.0	67.0	50,000	41,000	70.0	208V/1H	1/2	3.6	1	8.8 8.9	73	1/3	2.5	27	40	11.3	82.0	643	1,2 M5.2	1 M6.3	1, 2, 3, 4, 5, 6
WAC F3	CLASSROOM 5 F113	WG3S2-AXAEX4XXH	1100	UPPER 450 LOWER 150	0.5	26,475	35,600	80.0	67.0	50,000	41,000	70.0	208V/1H	1/2	3.6	1	8.8 8.9	73	1/3	2.5	27	40	11.3	82.0	643	1,2 M5.2	1 M6.3	1, 2, 3, 4, 5, 6
WAC F4	CLASSROOM 5 F113	WG3S2-AXAEX4XXH	1100	UPPER 450 LOWER 150	05	26,475	35,600	80.0	67.0	50,000	41,000	70.0	208V/1H	1/2	3.6	1	8.8 8.9	73	1/3	2.5	27	40	11.3	82.0	643	1,2 M5.2	1 M6.3	1, 2, 3, 4, 5, 6
2. 3.	DTES: 1. UNIT SELECTED AT 101F DB / 70°F WB SUMMER AMBIENT, AND 23°F DB WINTER AMBIENT AIR TEMPERATURES. 4. 50 BTUH INPUT, ECONOMIZER (INTERNAL) FULLY MODULATING WITH EXHAUST, FRONT OUTLET, STANDARD COILS + LAC, STANDARD CONTROLS. 6. LOWER OUTSIDE AIR POSITION INDICATED IS BASED ON 0.15 CFM/SQ.FT., ALLOWABLE FOR CO2 WITH EXHAUST, FRONT OUTLET, STANDARD COILS + LAC, STANDARD CONTROLS. 2. PROVIDE WITH 2" 30% THROWAWAY FILTER 5. ALL CLASSROOMS TO HAVE ECONOMIZER CONTROL THROUGH STANDARD CONTROLS. 6. LOWER OUTSIDE AIR POSITION INDICATED IS BASED ON 0.15 CFM/SQ.FT., ALLOWABLE FOR CO2 WITH EXHAUST, FRONT OUTLET, STANDARD COILS + LAC, STANDARD CONTROLS. INDICATED IS BASED ON 15 CFM/OCCUPANCY. UPPER OUTSIDE AIR POSITION STANDARD CONTROLS. 3. SINGLE STAGE COOLING WITH 100% OSA HOOD AND STAINLESS STEEL HEAT EXCHANGER. 6. LOWER OUTSIDE AIR POSITION INDICATED IS BASED ON 0.15 CFM/SQ.FT., ALLOWABLE FOR CO2 WITH EXHAUST, FRONT OUTLET, STANDARD COILS + LAC, STANDARD CONTROLS. 6. LOWER OUTSIDE AIR POSITION INDICATED IS BASED ON 0.15 CFM/SQ.FT., ALLOWABLE FOR CO2 DEMAND CONTROLLED SYSTEMS AT MINIMUM OCCUPANCY. UPPER OUTSIDE AIR POSITION INDICATED IS BASED ON 15 CFM/OCCUPANT WHEN SPACE IS AT MAXIMUM OCCUPANCY, UNLESS 3. SINGLE STAGE COOLING WITH 100% OSA HOOD AND STAINLESS STEEL HEAT EXCHANGER. 5. ALL CLASSROOMS TO HAVE ECONOMIZER CONTROL THROUGH THE "PELICAN" THERMOSTAT. 6. LOWER OUTSIDE AIR POSITION INDICATED IS BASED ON 0.15 CFM/SQ.FT., ALLOWABLE FOR CO2 UNITS WITH CO2 CONTROLS FOR SEQUENCE OF OPERATION. FOR THESE UNITS WITH CO2 CONTROL, ENTERING TEMPERATURES SCHEDULED REPRESENT CONDITIONS AT UPPER OSA POSITION.																											

			SPL	IT SYS	TEM	AC	U	ΝΙΤ	S	SCH	IEDUL	.E				
VOLT/PH	OPER. WT.		UNIT	"PCI" Model No.	COOLING	COMPR	ESSOR	МСА	моср	FAN	VOLT/PH	SEER	OPER. WT.	MOUNTING DETAIL	CONTROL DIAGRAM	NOTES
	(LBS.)	DETAIL		(OUTDOOR UNIT)	CAPACITY (MBH)	RLA	LRA			FLA			(LBS.)	DETAIL	DIAGRAM	
208/ 1 PH	35	3 M5.1	SHPO B1	DHX18CSB21S	18.0	7.2	14.0	16.0	25.0	0.36	208/ 1 PH	20.0	125	2 M5.1	2 M6.2	1,2,3,4,5
208/ 1 PH	35	3 M5.1	SHPO C1	DHX18CSB21S	18.0	7.2	14.0	16.0	25.0	0.36	208/ 1 PH	20.0	125	2 M5.1	2 M6.2	1,2,3,4,5
208/ 1 PH	35	3 M5.1	SHPO E1	DHX18CSB21S	18.0	7.2	14.0	16.0	25.0	0.36	208/ 1 PH	20.0	125	2 M5.1	2 M6.2	1,2,3,4,5
208/ 1 PH	35	3 M5.1	SHPO F1	DHX18CSB21S	18.0	7.2	14.0	16.0	25.0	0.36	208/ 1 PH	20.0	125	1 M5.1	2 M6.2	1,2,3,4,5,6
E "REFCO" MOI MPTION, 5.0 AN	DEL GOB IPS ALAF	I CONDENSATE	PUMP, 120V/3F GAL/HR CAPAC	TO MRF'S INSTALLATION PH/60HZ, 16 WATT POWE ITY, 65FT MAX. VERTICA	R		. TOP	OF UNIT	TO MAI	ГСН ВОТ	TOM OF SOFFI	T HEIGH	Τ.			



PROFESS/C AS A. DU

EXPIRES 9/30/20



		"JCI"			MIN.	ESP		
UNIT	SERVES	MODEL NO. U.N.O.	NOM. TONS	CFM	0.A. (CFM)	(IN. W.G.)	LOW CFM (66%)	S C
AC F1	BLDG F OFFICE SPACES	ZQG05D2CIAB1A114A3	4	1400	UPPER 185 LOWER 145	0.8	N/A	
CAPAC (2) PROVII	CITIES SCHEDULED	F DB / 70 F WB SUMMER AMBIENT ARE NET SENSIBLE & NET TOTAL ANDED METAL CONDENSER COIL S). THE ESP SCHEDULED ABOVE	CAPACIT	TIES. , and 2" 1	HICK MEI	RV 8 DISP	OSABLE	
PLEAT								

							AIF		OND		DN	INC	Gl	JN	IT S	SCHE	DU	LE									
	D	COOLING			GA	S HEATING	G				AC	UNIT	ELECT				-	-	EFFIC	IENCY	OPER	RATING	WEIGHT	(LBS.)			
L	OW SENSIBLE	TOTAL	EV	AP.			НХ		SUPPL	Y FAN	C	OMPRES	SSOR	CO	ND. FAN	COMB. FAN			OFER				HAIL		MOUNTING	CONTROL	NOTES
	CAPACITY 66%) (MBH)	CAPACITY (MBH)	EDB (°F)	EWB (°F)	INPUT (MBH)	OUTPUT (MBH)	EDB (°F)	VOLT/PH	BHP	FLA	QTY	RLA	LRA	QTY	FLA	FLA	MCA	МОСР	(EER)	(TE)			GUAR ECON	TOTAL	DETAIL	DIAGRAM	
	N/A 37.0	47.0	78.4	63.4	70.0	56.0	40.0	208/3	2.40	5.2	1	137	83.1	1	1.4	1.4		MIN 25 MAX 35		(80%)	566	84	50 75	775	(1,2,3) (M5.3)	3 M6.2	12345678

RATURES. COOLING

GED HEAT

5 LOWER OUTSIDE AIR POSITION INDICATED IS BASED ON 0.15 CFM/SQ.FT., ALLOWABLE FOR CO2 DEMAND CONTROLLED SYSTEMS AT MINIMUM OCCUPANCY. UPPER OUTSIDE AIR POSITION INDICATED IS BASED ON 15 CFM/OCCUPANT WHEN SPACE IS AT MAXIMUM OCCUPANCY, UNLESS SYSTEM IS IN ECONOMIZER MODE. SEE CONTROLS FOR SEQUENCE OF OPERATION. FOR THESE UNITS WITH CO2 CONTROL, ENTERING TEMPERATURES SCHEDULED REPRESENT CONDITIONS AT UPPER OSA POSITION.

6 HORIZONTAL SUPPLY AND RETURN AIR DUCT CONFIGURATION.

7 EXISTING DUCTWORK THAT IS BEING RE-USED SHALL BE THOROUGHLY CLEANED PER SPEC SECTION 23 01 30.52.

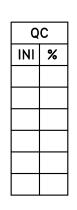
8 PROVIDE WITH ECONOMIZER, DB, HORIZONTAL FLOW, SMALL FOOTPRINT, SHORT CABINET WITH BAROMETRIC RELIEF.

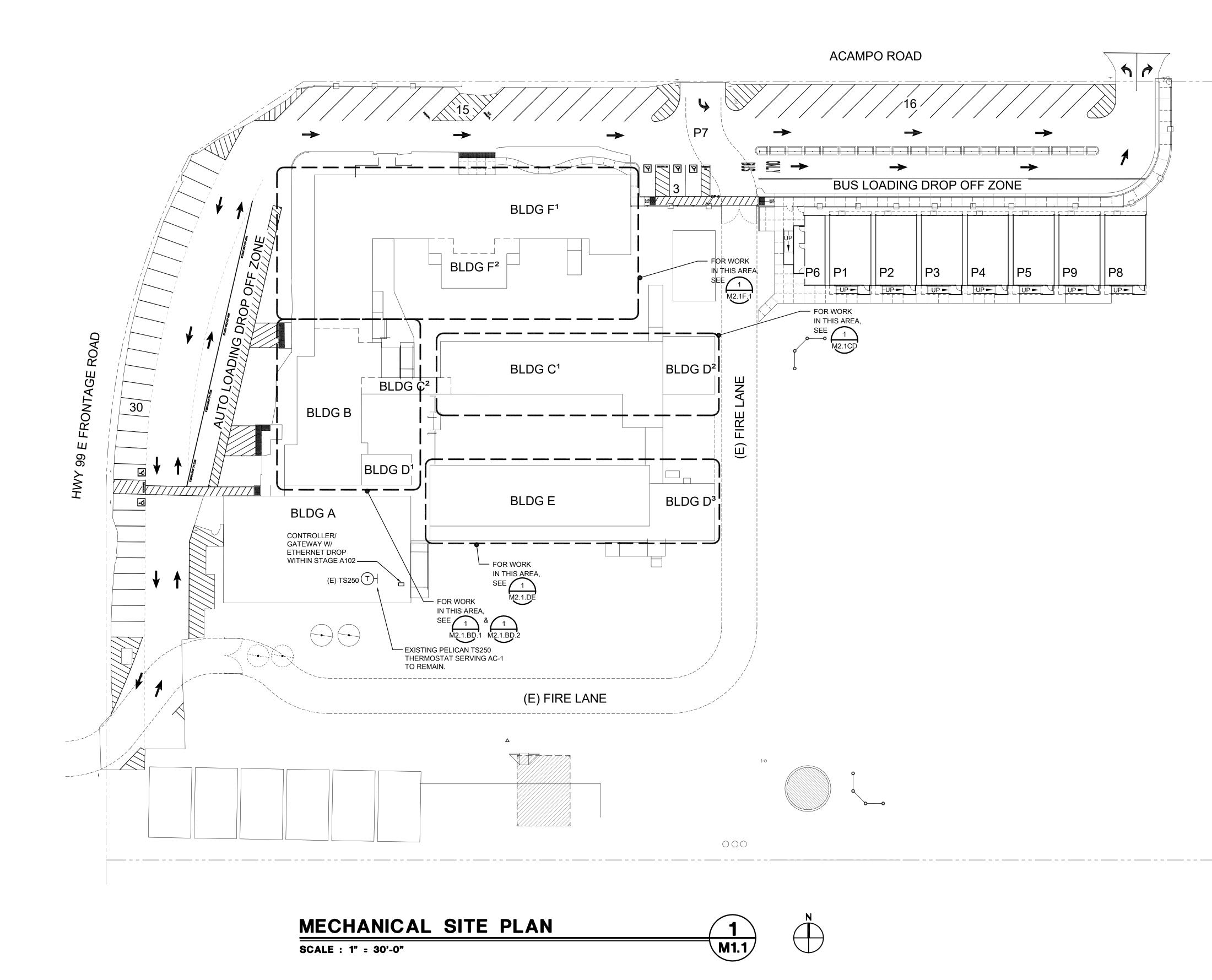
	0	UTS	SIDE		IR FA	N SC	HED	ULE		
UNIT	LOCATION	"S&P" MODEL NO.	CFM	SP (IN. W.G.)	DUTY	STYLE	VOLT/PH	OPER. WT. (LBS.)	CONTROL DIAGRAM	NOTE
B1	RR3 A106	PV-100	45	0.01	OUTSIDE AIR	INLINE	120/1	7	2 M6.2	1
NOTES: 1. INTER	RLOCK WITH AS	SOCIATE	D SPLIT SY	YSTEM.						

٢	DIFFUSER,	REGIST	ER & 0	GRILLE	SCHED	ULE
SYMBOL	DESCRIPTION	KRUEGER	METALAIRE	NAILOR	TITUS	TUTTLE & BAILEY
CD X	MODULAR CORE SURFACE MOUNT CEILING DIFFUSER BEVEL FRAME Ž" DROP	1240 FRAME 21 - 1""	9000-2	7500-S	MCD BORDER TYPE 6	SQD-SB
CD-2	MODULAR CORE SURFACE MOUNT CEILING DIFFUSER FLAT FRAME	1240 FRAME 22	9000-1	7500-B	MCD BORDER TYPE 1	SQD-SF
CD-3	SPIRAL DUCT MOUNTED GRILLE. GRILLE SHALL BE PROVIDED WITH GALVANIZED STEEL FINISH TO MATCH SPIRAL DUCT.				S300	
CDL	MODULAR CORE LAY-IN CEILING DIFFUSER FOR T-BAR CEILING 24x24 PANEL	1240 FRAME 23	9000-6P	7500-L	MCD BORDER TYPE 3	SQD-LT
CR	CEILING RETURN WITH " EGG CRATE CORE SURFACE MOUNT	EGC-5	CC5D	61 EC-S	MODEL 50 F BORDER TYPE 1	CRE500-SF
CRL	CEILING RETURN WITH " EGG CRATE CORE IN 24x24 PANEL FOR T-BAR CEILING	EGC-5TB	CC5D-TBD	61 EC-L	MODEL 50 F BORDER TYPE 3	CRE500-LT
s * [×]	DOUBLE DEFLECTION SUPPLY GRILLE WITH VERTICAL FRONT BARS, Ž" SPACING	880 V	V 4004 S	61 DV	300 RS	T54
R&E *	RETURN OR EXHAUST GRILLE WITH 35° OR 45° HORIZONTAL BARS.	S 80 H	SRH	7145 H	350 RL	T70D
SG ×	SOFFIT GRILLE - HEAVY DUTY SINGLE DEFLECTION GRILLE WITH 10 GAUGE, " WOVEN STEEL MESH SECURED BEHIND FACE BARS. PROVIDE PLASTER FRAME IN PLASTER SOFFIT	S 480 H WITH '" MESH AND PF WHERE REQUIRED	HDRH WITH '" MESH AND PF WHERE REQUIRED	6145 HD WITH " MESH & PLASTER FRAME WHERE REQUIRED	33 RL HD WITH '" MESH AND PF WHERE REQUIRED	T75D WITH " MESH AND PF WHERE REQUIRED
RH & EH	HEAVY DUTY RETURN OR EXHAUST GRILLE WITH 35° OR 45° HORIZONTAL BARS	S 480 H	HDRH	6145 HD	33 RL	T115H-40
	ALUMINUM LINEAR SLOT DIFFUSER WITH 4-" SLOTS & FIELD FABRICATED PLENUM	-	-	-	ML-38	6000
LD-2	ALUMINUM LINEAR SLOT DIFFUSER WITH 8-" SLOTS & FIELD FABRICATED PLENUM	-	-	-	ML-38	6000
NOTES:	I. ALL SYMBOLS NOTED MAY NOT E REFER TO PLANS FOR SIZE AND			ORDINATE DIFFUSER TY FLECTED CEILING PLAN.	PE WITH	
:	2. ALL SUPPLY AIR DIFFUSERS ARE UNLESS SHOWN OTHERWISE.	4 WAY BLOW	REC	POSED BLADE DAMPERS QUIRED AT DIFFUSERS, F		
\$	 FURNISH ALL PRODUCTS OF A SI MANUFACTURER. ALUMINUM REGISTERS FOR SHOWERS AND DAMP AREAS 		6. PR(BR/	ILLES. DVIDE MANUAL AIR DAMI ANCH DUCT TO A SINGLE GISTER OR GRILLE.	DIFFUSER,	HO CHAS A. DU

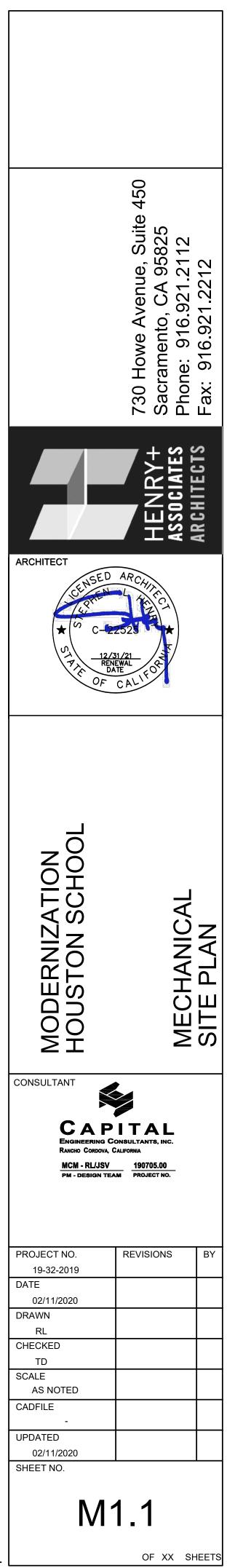


	730 Howe Avenue, Suite 450 Sacramento, CA 95825 Phone: 916.921.2112 Fax: 916.921.2212
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MODERNIZATION HOUSTON SCHOOL	MECHANICAL EQUIPMENT SCHEDULES
CONSULTANT CAP ENGINEERING C RANCHO CORDOVA, MCM - RL/JSV PM - DESIGN TE	190705.00
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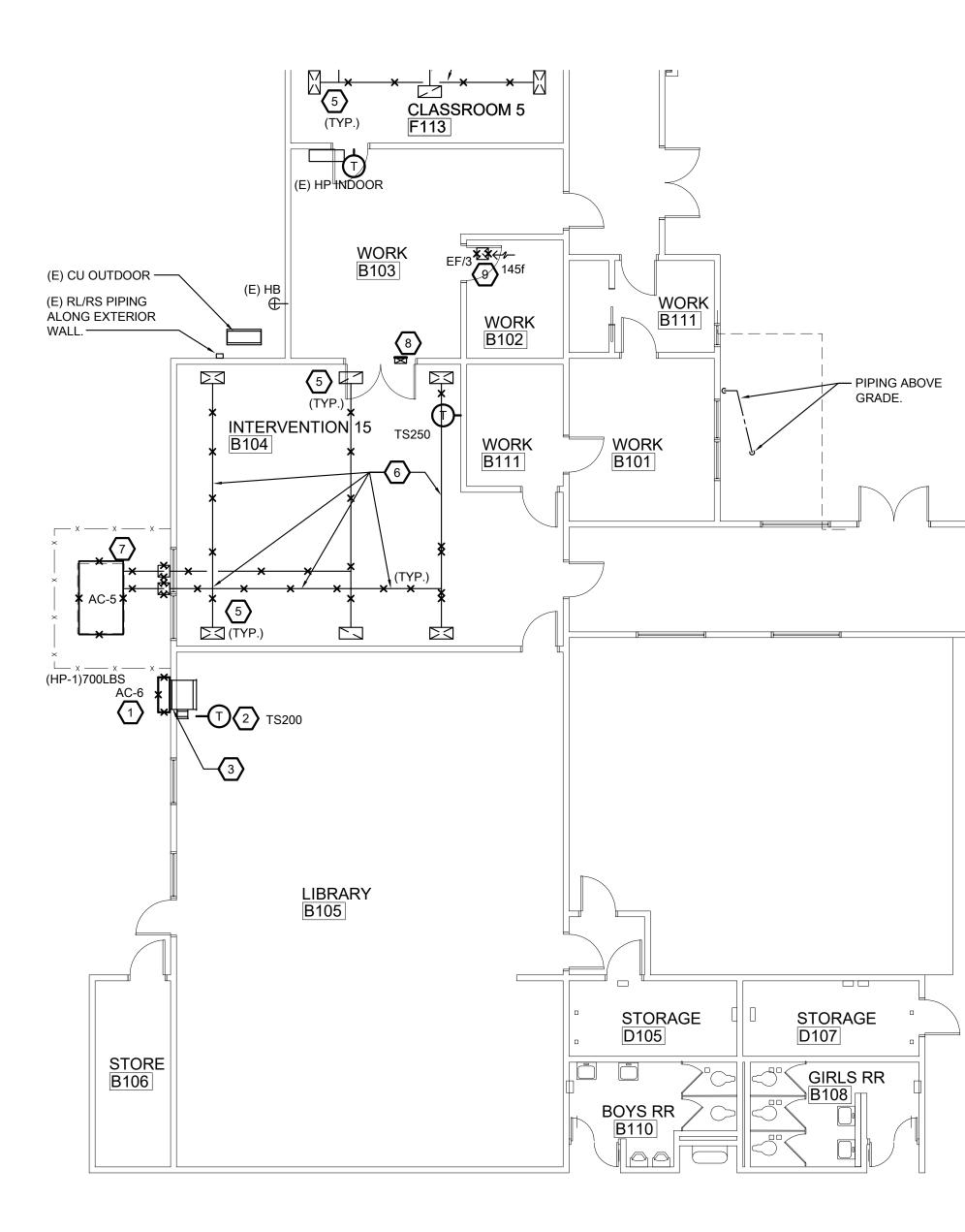


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MECHANICAL DEMO FLOOR PLAN BUILDINGS B & D

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

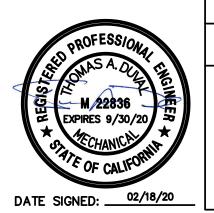
DEMOLITION GENERAL NOTES

- 1. NOT ALL GENERAL NOTES OR SHEET NOTES MAY APPLY TO EVERY DRAWING.
- 2. FOR PIPING CONNECTIONS TO NEW AC-UNITS SEE PLUMBING PLANS, TYPICAL.

DEMOLITION SHEET NOTES

- REMOVE (E) "BARD" EXTERIOR MOUNTED SIDE WALL UNIT INCLUDING MOUNTING HARDWARE. • PREPARE EXISTING SA AND RA DUCTS FOR
- RECONNECTION TO NEW UNIT. 2 MODIFY THE EXISTING PELICAN TS200 THERMOSTATS WITH THE ADDITION OF THE PLUS50. ALL STATS (NOT EXISTING TS250 STATS) ON SITE ARE TO REPLACED WITH THE PELICAN TS250 STATS
- 3 DUCTWORK AND GRILLE(S) TO REMAIN WHERE DUCTWORK IS LOCATED WITHIN SOFFIT. IF NO SOFFIT PROVIDE NEW DUCTWORK FOR WALL HUNG UNITS. PREPARE FOR NEW CONNECTIONS AT SOFFIT LOCATIONS.
- 4 REMOVE EXHAUST FAN, DUCTWORK, AND SUPPORTS. PATCH ALL WALL, FLOOR, AND ROOF OPENINGS WITH APPROPRIATE BLOCKING TO MATCH SURROUNDING SURFACES PER STRUCTURAL/ ARCHITECTURAL PLANS AND SPECIFICATIONS.
- (5) REMOVE GRILLE, CAP OPENING WITH 12 GA. SHEET METAL. INSULATE UNDERSIDE OF SHEET METAL WITH 2" RIGID. TYPICAL FOR ALL IN FLOOR SUPPLY AND RETURN GRILLES. PREPARE FOR REINSTALLATION OF GRILLE AFTER CLEANING INTO ORIGINAL LOCATION.
- 6 REMOVE DUCT AND DUCT SUPPORTS BELOW FLOOR AND WITHIN THE CRAWL SPACE.
- 7 REMOVE AC-UNIT AND CURB. REMOVE DUCTWORK AND ASSOCIATED DUCT WORK LOCATED OUTSIDE. PATCH THE SIDEWALL TO MATCH SURROUNDING SURFACES. PATCH THE GRADE WORK REQUIRED BY BACKFILLING THE LARGE VOID/ OPENING(S) TO BELOW GRADE PER ARCHITECTURAL DRAWINGS.
- 8 CAP DUCT BEHIND ARCHITECTURAL SURFACES AND PATCH WALL TO MATCH SURROUNDING SURFACES.
- 9 REMOVE EXHAUST FAN AND CAP DUCTWORK BEHIND ARCHITECTURAL SURFACE. PATCH OPENING TO MATCH SURROUNDING SURFACES.
- 10 REMOVE GRILLE AND DUCTWORK. PATCH WALL OPENING TO MATCH SURROUNDING SURFACES AND TO RETAIN THE RATED WALL CONFIGURATION. COORDINATE WITH ARCHITECTURAL PLANS.
- (1) REMOVE EXHAUST FAN AND CAP DUCTWORK BELOW ROOF DECK AND BEHIND ARCHITECTURAL SURFACE AS NOTED. PATCH OPENING TO MATCH SURROUNDING SURFACES.
- REMOVE SEGMENT OF DUCT AND PREPARE DUCTWORK FOR NEW OUTSIDE AIR FAN AND DUCT TRANSITIONS.
- REMOVE FENCE AS REQUIRED TO ACCOMMODATE THE NEW AC-F1 UNIT. COORDINATE NEW FENCE LOCATION WITH ARCHITECTURAL PLANS. NORTHWEST FENCE AND GATE TO BE SHIFTED A MINIMUM 3'-0" TO THE EAST.
- 14 REMOVE SPLIT INDOOR/ OUTDOOR UNIT INCLUDING SUPPORTS AND REFRIGERANT PIPING SYSTEM. REMOVE THERMOSTAT AND PATCH OPENINGS TO MATCH SURROUNDING SURFACES. PREPARE FOR INSTALLATION OF NEW.
- (15) REMOVE SPLIT INDOOR/ OUTDOOR UNIT INCLUDING SUPPORTS, REFRIGERANT PIPING SYSTEM AND CONCRETE PAD. REMOVE THERMOSTAT AND PATCH OPENINGS TO MATCH SURROUNDING SURFACES. PREPARE FOR INSTALLATION OF NEW.
- (16) REMOVE (E) "BARD" EXTERIOR MOUNTED SIDE WALL UNIT INCLUDING MOUNTING HARDWARE.

1 M2.1BD.1



730 Howe Avenue, Suite 4 Sacramento, CA 95825 Phone: 916.921.2112 Fax: 916.921.2212 HE ASS(ARCI ARCHITECT RÉNEWAL DATE

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MODERNIZATION HOUSTON SCHOOL

CONSULTANT

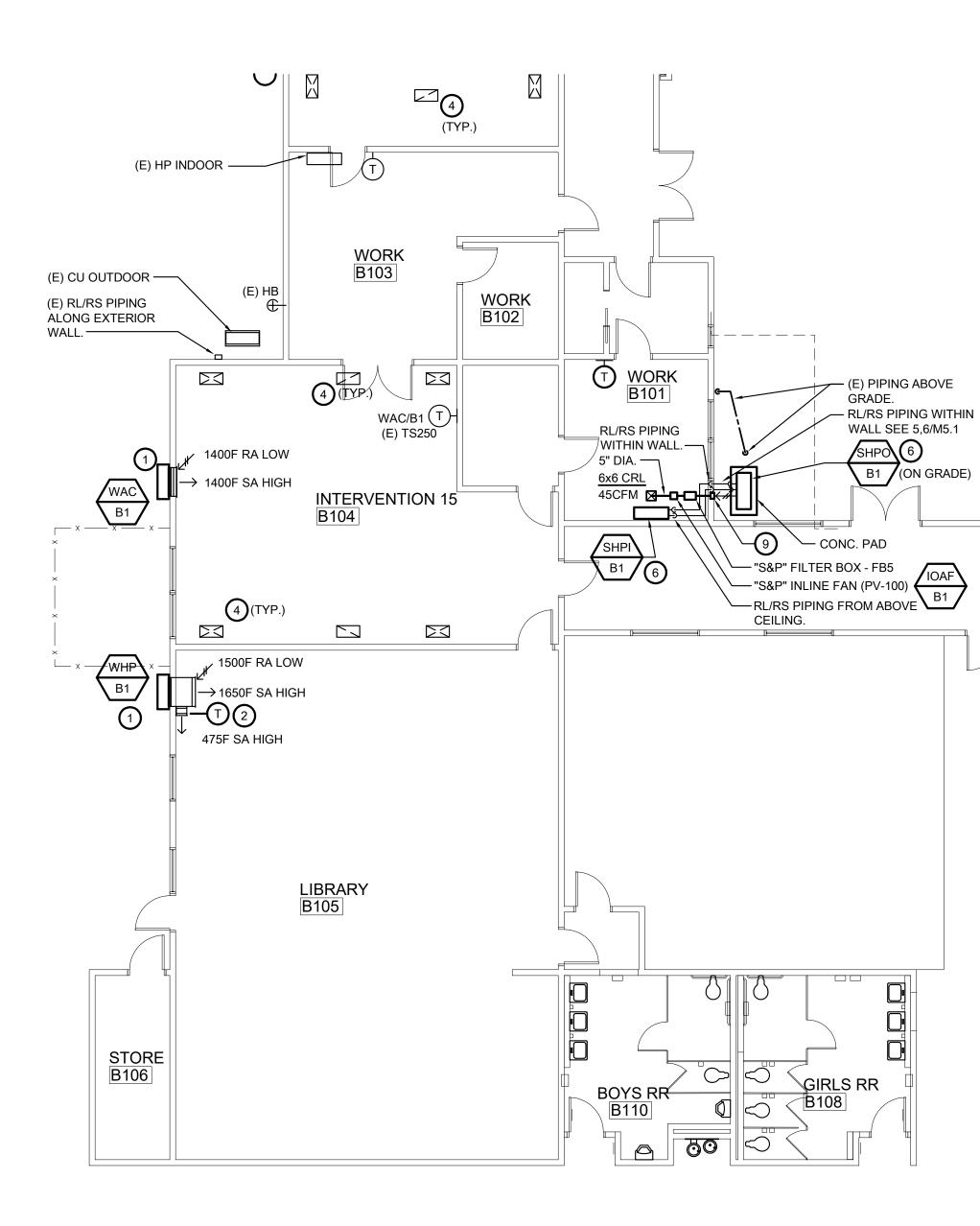
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02/11/2020		
SHEET NO.		
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MECHANICAL FLOOR PLAN BUILDINGS B & D

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

GENERAL NOTES

- 1. NOT ALL GENERAL NOTES OR SHEET NOTES MAY APPLY TO EVERY DRAWING.
- 2. FOR PIPING CONNECTIONS TO NEW AC-UNITS SEE PLUMBING PLANS, TYPICAL.

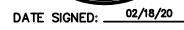
SHEET NOTES

- WALL HUNG AC-UNIT OR WALL HUNG HEAT PUMP UNIT. CONNECT TO DUCTWORK AS REQUIRED. BALANCE TO CFM's NOTED. FOR MOUNTING DETAIL SEE 1/M5.2 OR 2/M5.2
- 2 MODIFY THE EXISTING PELICAN TS200 THERMOSTATS PER MANUFACTURER'S "PELICAN" INSTRUCTIONS WITH THE ADDITION OF THE PLUS50 TO THE EXISTING TS200.
- 3 NEW WALL PENETRATION FOR NEW WALL HUNG EQUIPMENT. COORDINATE FINAL LOCATION WITH ARCHITECTURAL AND STRUCTURAL DRAWINGS.
- 4 REINSTALL (E) GRILLE AFTER CLEANING INTO ORIGINAL LOCATION. CAP OPENING BELOW GRILLE WITH 12 GA. SHEET METAL. INSULATE UNDERSIDE OF SHEET METAL WITH 2" RIGID. TYPICAL FOR ALL IN FLOOR SUPPLY AND RETURN GRILLES.
- 5 SPHPI MOUNTED ON WALL. SHPO UNIT MOUNTED ON EXISTING CONCRETE CURB. RUN REFRIGERANT PIPING PER PLAN.
- 6 8" HIGH CONCRETE PAD, SEE STRUCTURAL DETAIL.
- OUTDOOR EQUIPMENT ON EXISTING CONCRETE. FENCING WILL NEED TO BE REMOVED IN ORDER FOR INSTALLATION OF THE NEW PACKAGED AC-UNIT. COORDINATE FENCE MODIFICATIONS WITH ARCHITECTURAL PLANS.
- (8) REBALANCE THE SPACE(S) PER THE CFM'S NOTED.
- 9 6" DIA. "SEIHO" SFX 6S METAL LOUVER SHUTTER PAINTED TO MATCH SURROUNDING SURFACES COMPLETE WITH INSECT SCREEN AND CAP COVER. COORDINATE LOCATION THRU WALL WITH FIELD CONDITIONS.
- (10) SPHPI MOUNTED ON WALL. SHPO UNIT MOUNTED ON ROOF CURB. RUN REFRIGERANT PIPING PER PLAN. TOP OF UNIT TO MATCH BOTTOM OF SOFFIT HEIGHT. (11) NEW PELICAN TS250 THERMOSTAT.

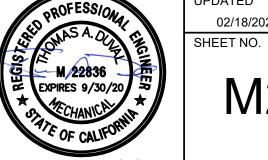
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(12) WALL HUNG AC-UNIT. BALANCE TO CFM'S NOTED. FOR MOUNTING DETAIL SEE 1/M5.2.



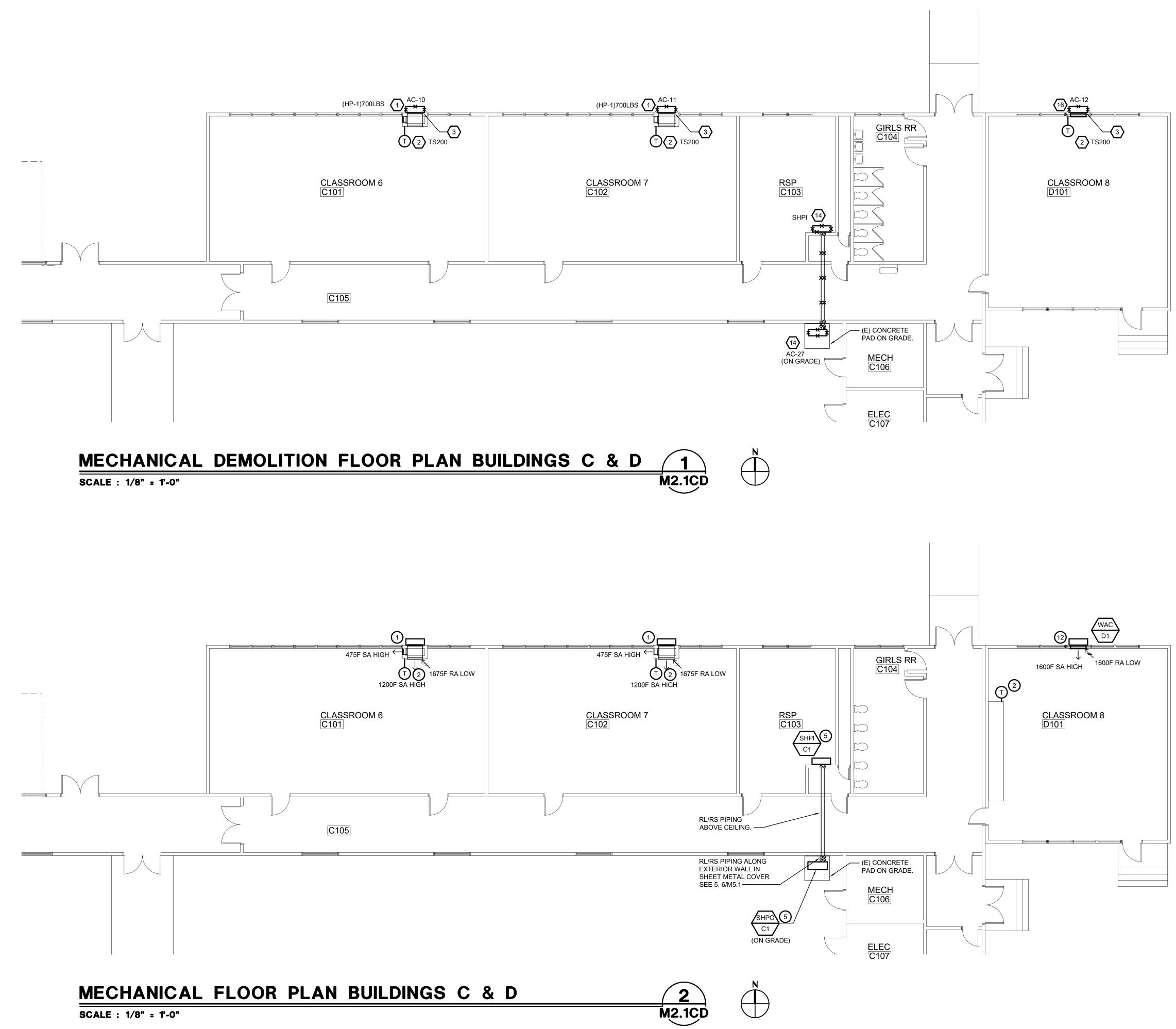


450 730 Howe Avenue, Suite 4 Sacramento, CA 95825 Phone: 916.921.2112 Fax: 916.921.2212 HE ASS(ARCI ARCHITECT AN Δ & D MODERNIZATION HOUSTON SCHOOL MECHANICAL F BUILDINGS B 8 CONSULTANT CAPITAL ENGINEERING CONSULTANTS, INC. RANCHO CORDOVA, CALIFORNIA MCM - RL/JSV 190705.00 PM - DESIGN TEAM PROJECT NO PROJECT NO. REVISIONS 19-32-2019 DATE 02/11/2020 DRAWN RL CHECKED TD SCALE AS NOTED CADFILE UPDATED 02/18/2020



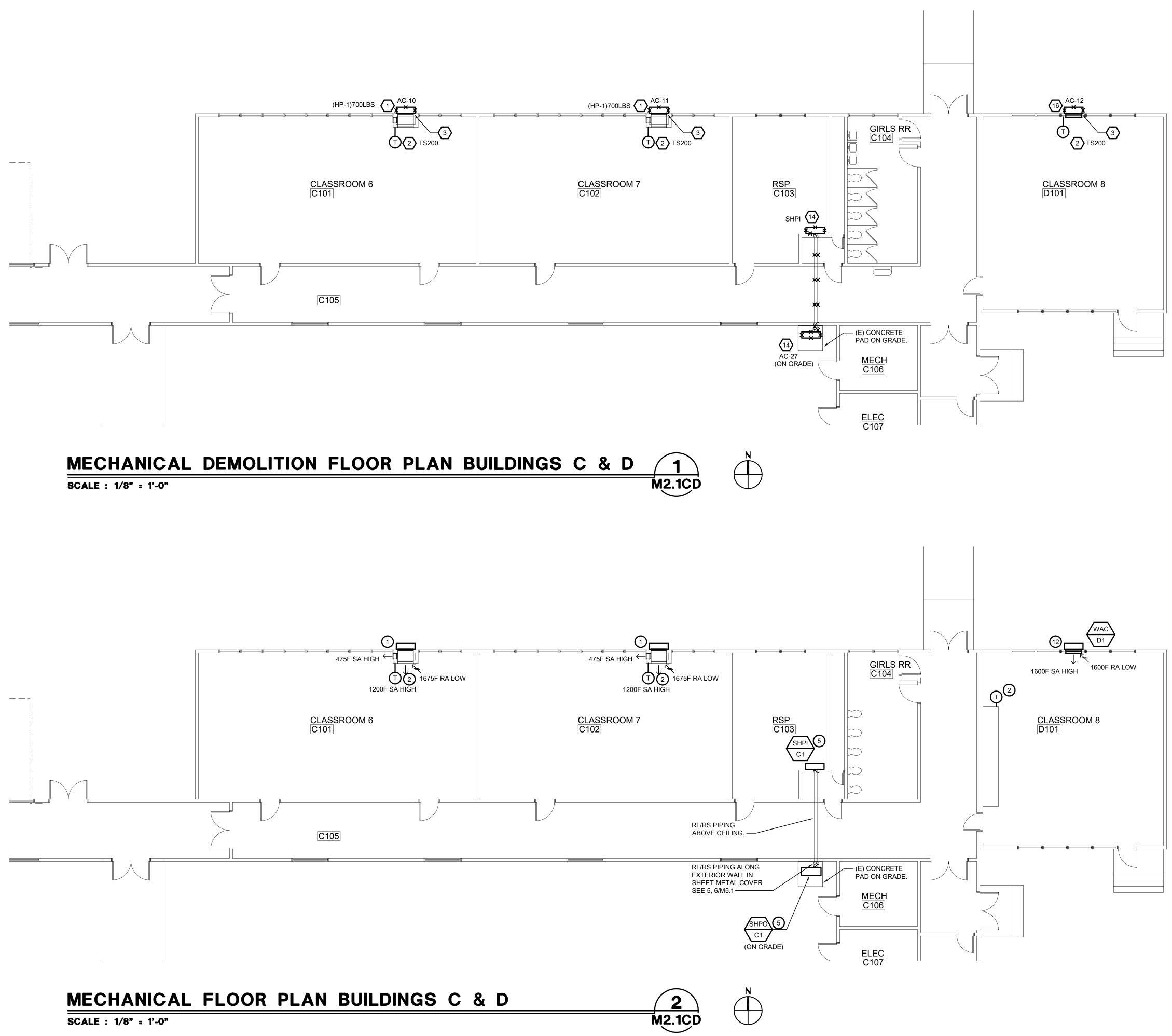
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- (1) REMOVE (E) "BARD" EXTERIOR MOUNTED SIDE WALL UNIT INCLUDING MOUNTING HARDWARE. • PREPARE EXISTING SA AND RA DUCTS FOR
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- REMOVE EXHAUST FAN, DUCTWORK, AND SUPPORTS. PATCH ALL WALL, FLOOR, AND ROOF OPENINGS WITH APPROPRIATE BLOCKING TO MATCH SURROUNDING SURFACES PER STRUCTURAL/ ARCHITECTURAL PLANS AND SPECIFICATIONS.
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- REMOVE SEGMENT OF DUCT AND PREPARE DUCTWORK FOR NEW OUTSIDE AIR FAN AND DUCT TRANSITIONS.
- REMOVE FENCE AS REQUIRED TO ACCOMMODATE THE NEW AC-F1 UNIT. COORDINATE NEW FENCE LOCATION WITH ARCHITECTURAL PLANS. NORTHWEST FENCE AND GATE TO BE SHIFTED A MINIMUM 3'-0" TO THE EAST.
- (14) REMOVE SPLIT INDOOR/ OUTDOOR UNIT INCLUDING SUPPORTS AND REFRIGERANT PIPING SYSTEM. REMOVE THERMOSTAT AND PATCH OPENINGS TO MATCH SURROUNDING SURFACES. PREPARE FOR INSTALLATION OF NEW.
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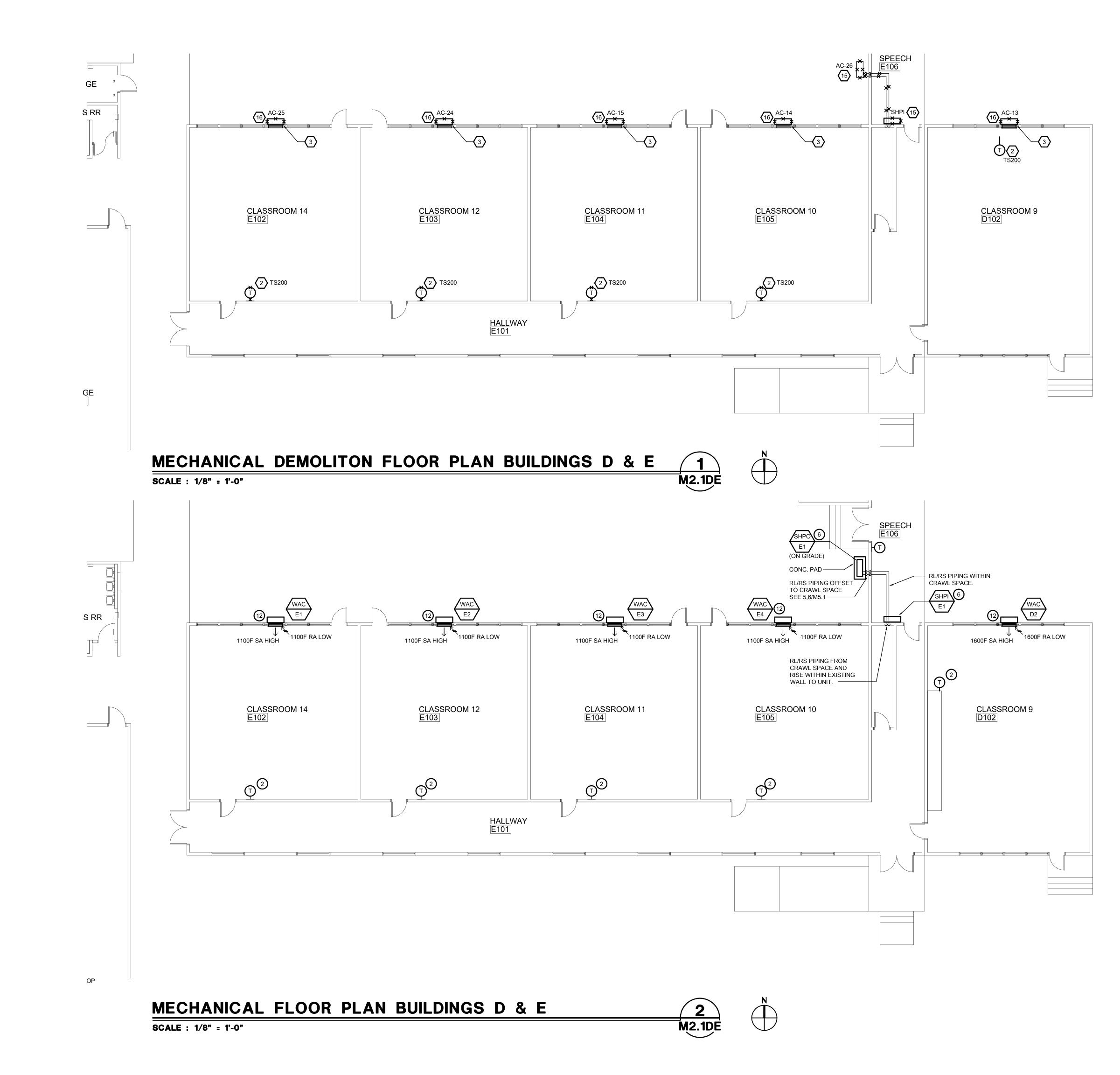
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DATE SIGNED: 02/18/20

	730 Howe Avenue, Suite 450 Sacramento, CA 95825 Phone: 916.921.2112 Fax: 916.921.2212			
	HENRY+ Associates Architects			
ARCHITECT	ARCAYINE 2523 WAL CALIFOR			
MODERNIZATION HOUSTON SCHOOL	MECHANICAL FLOOR PLAN BUILDINGS C & D			
CONSULTANT EXAMPLE A CONSULTANTS, INC. RANCHO CORDOVA, CALIFORNIA MCM - RL/JSV PM - DESIGN TEAM 190705.00 PROJECT NO.				
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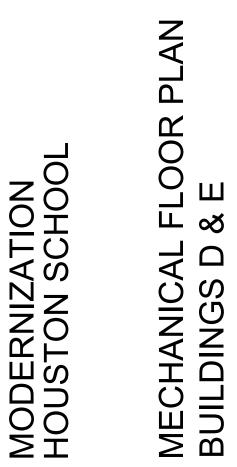


450 730 Howe Avenue, Suite 4 Sacramento, CA 95825 Phone: 916.921.2112 Fax: 916.921.2212



ARCHITECT





CONSULTANT CAPITAL ENGINEERING CONSULTANTS, INC.

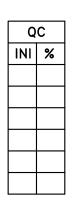
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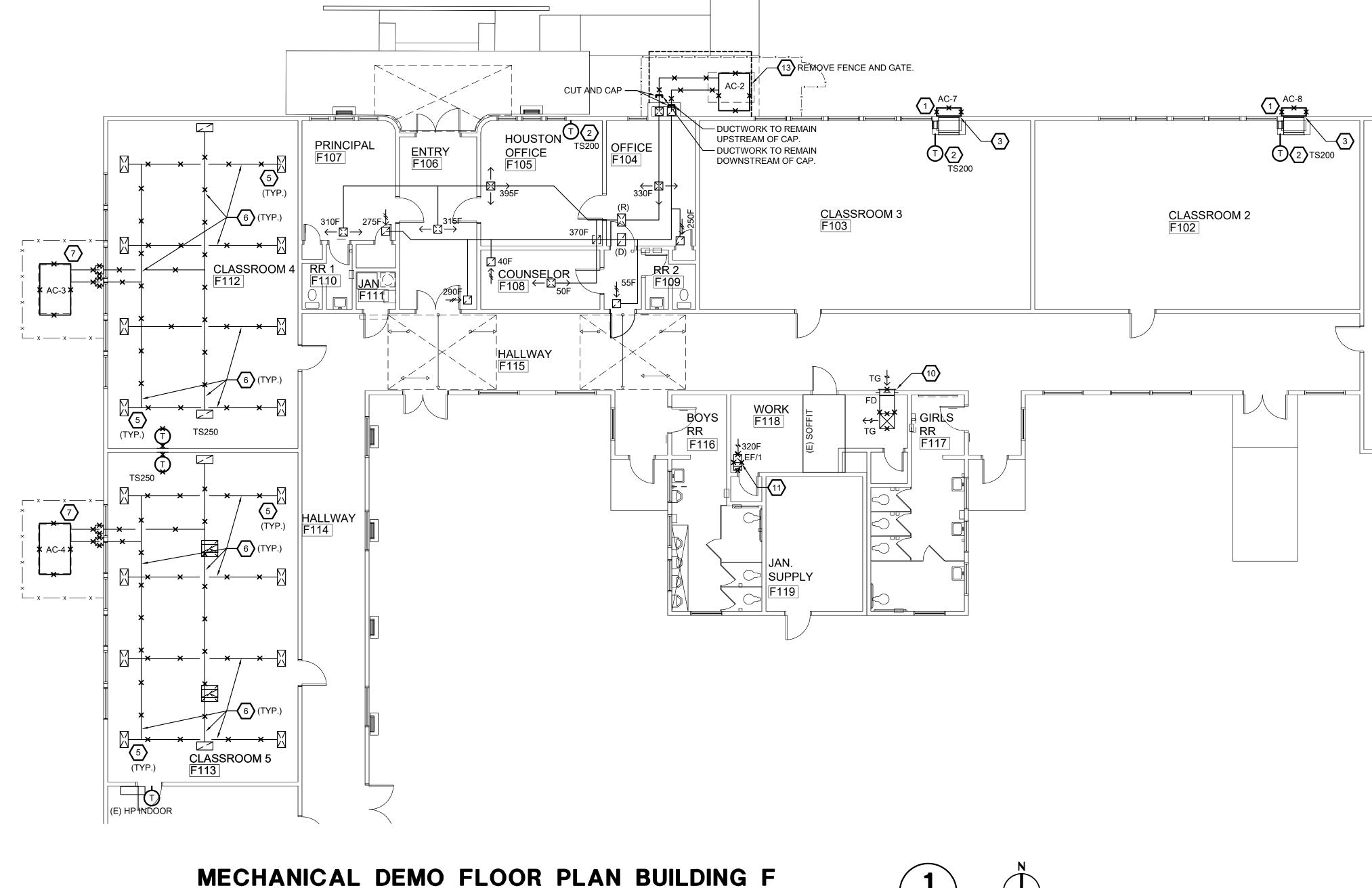
RANCHO CORDOVA, CALIFORNIA

PROJECT NO.	REVISIONS	BY
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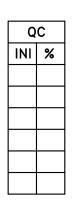
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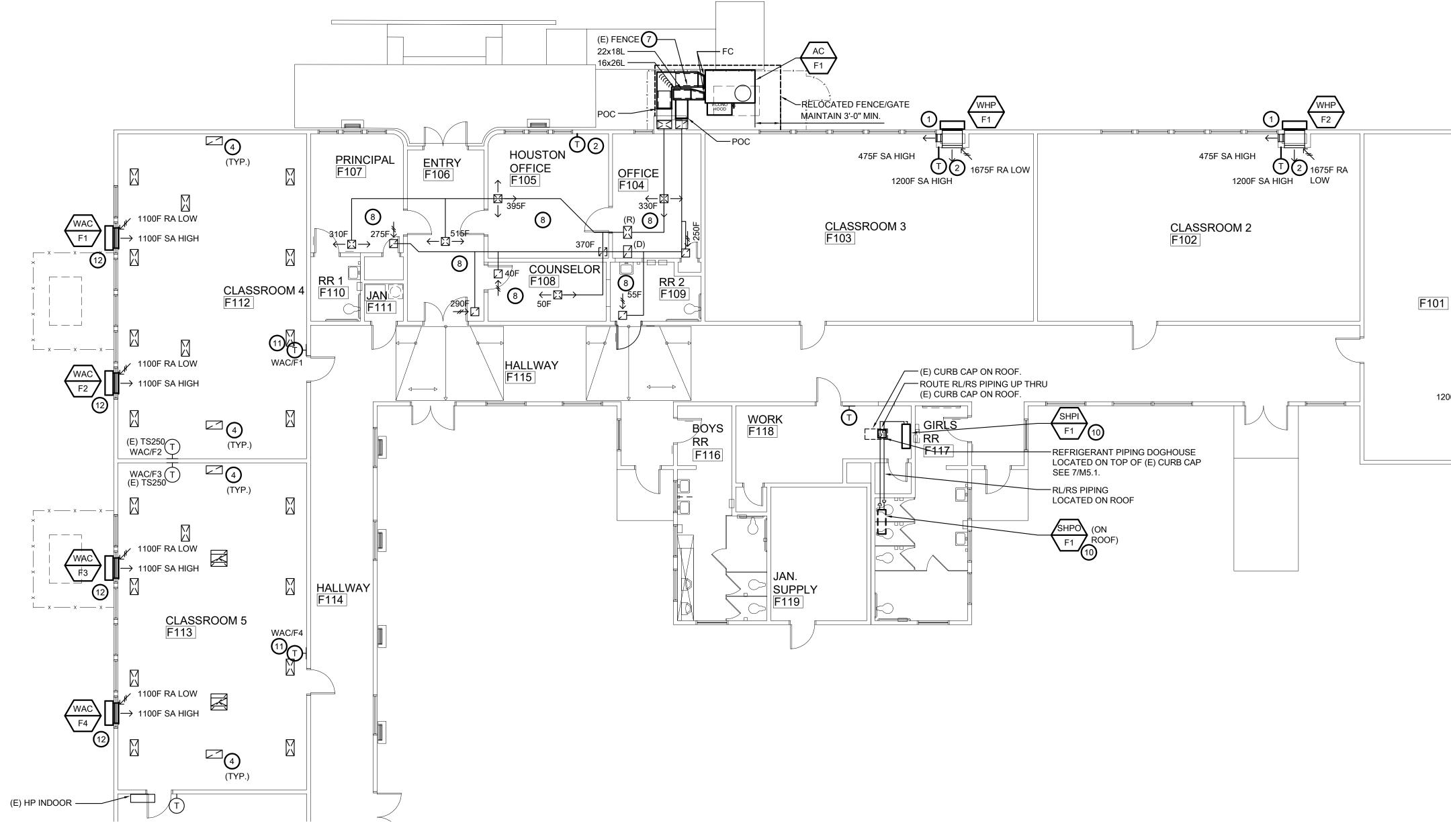
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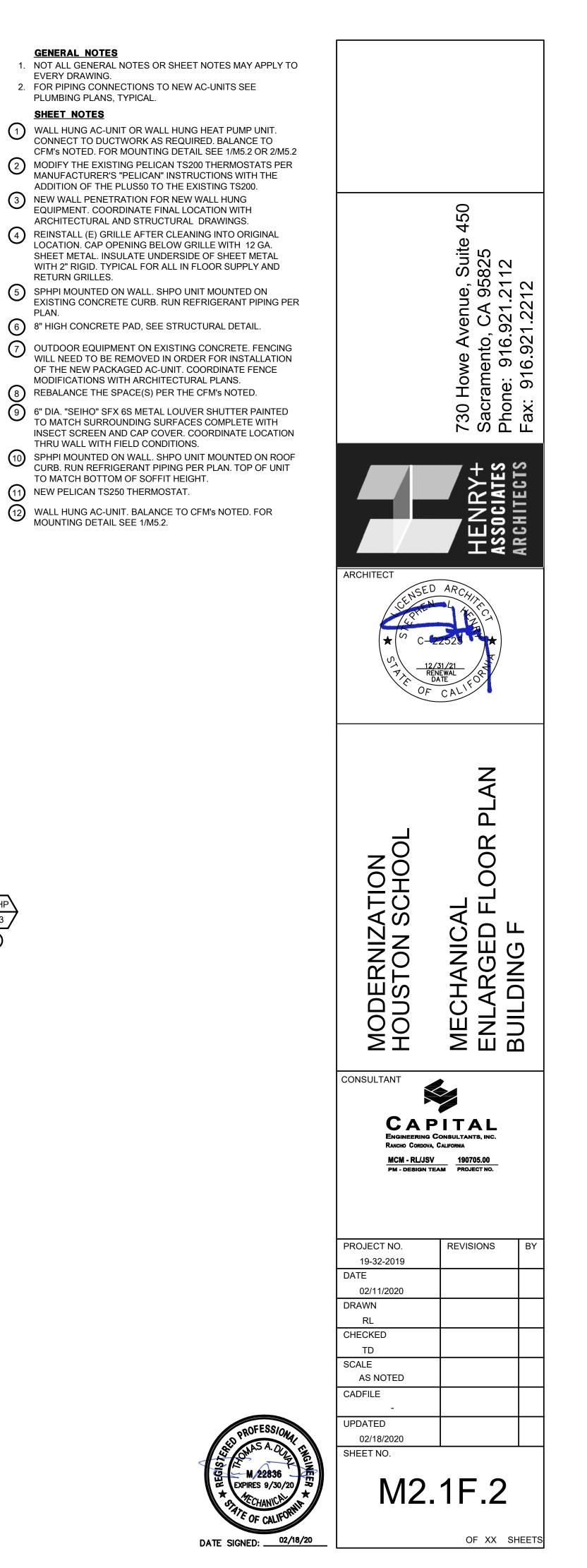


MECHANICAL FLOOR PLAN BUILDING F

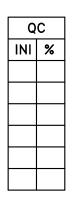
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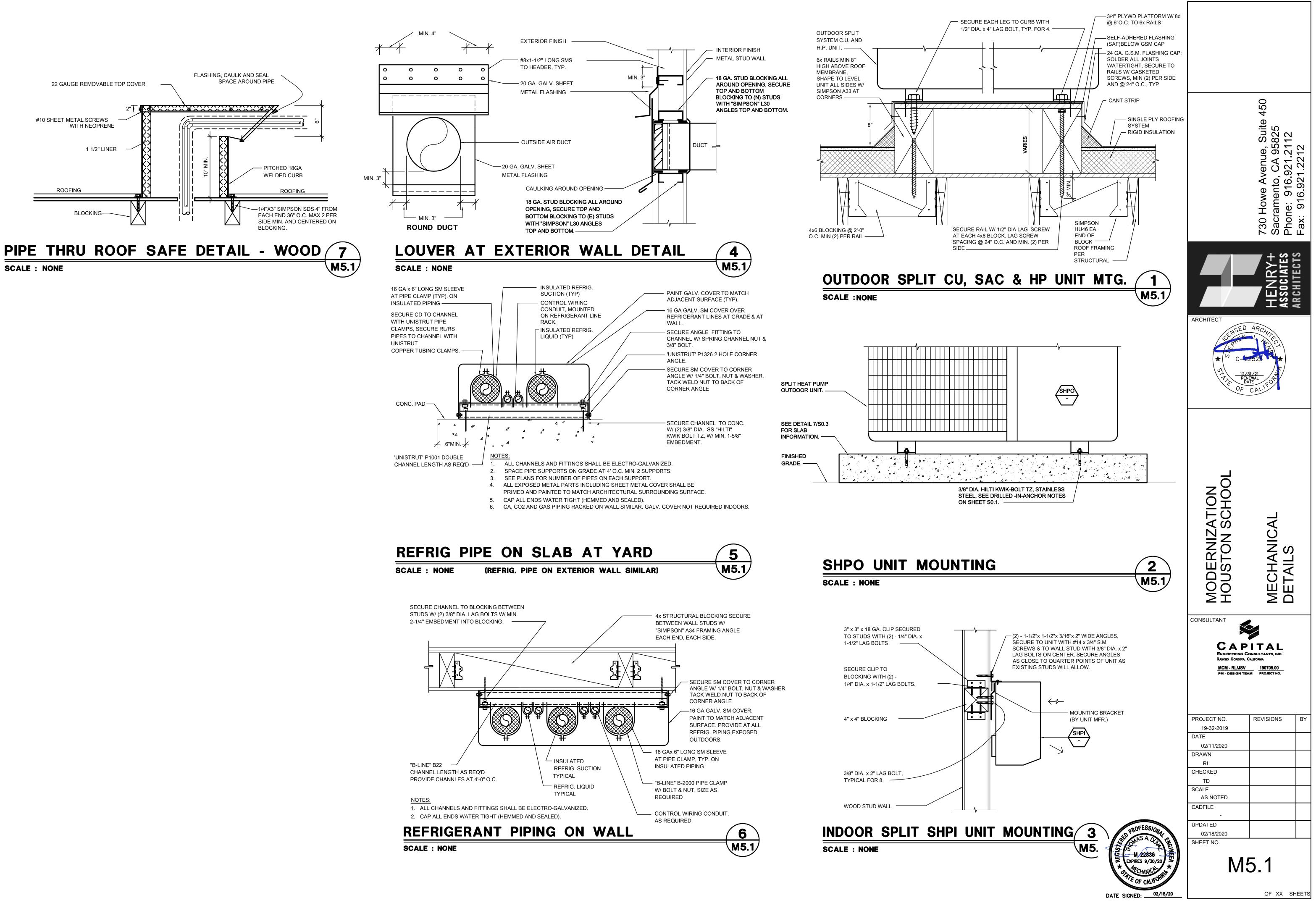
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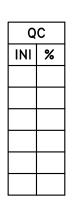
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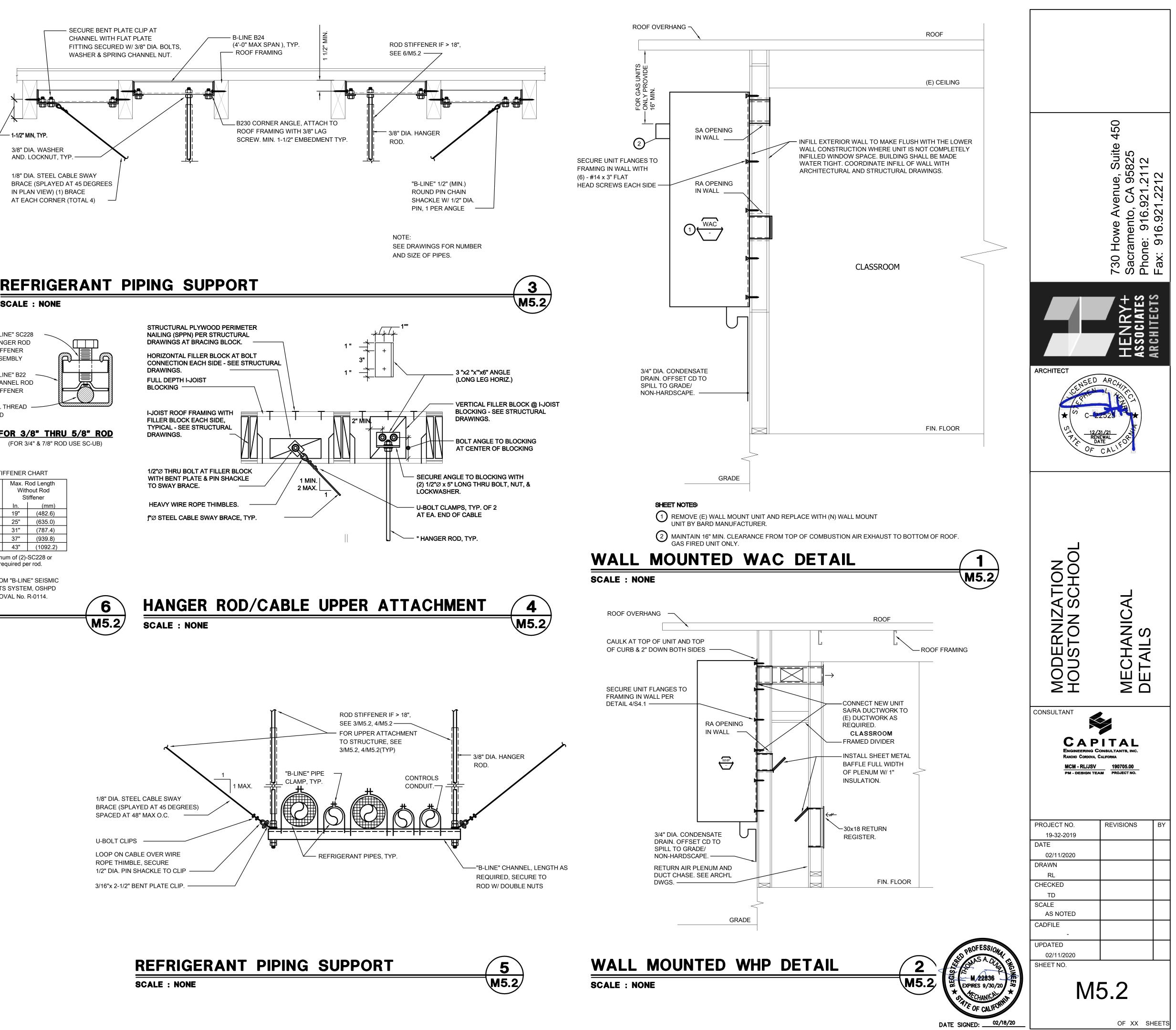


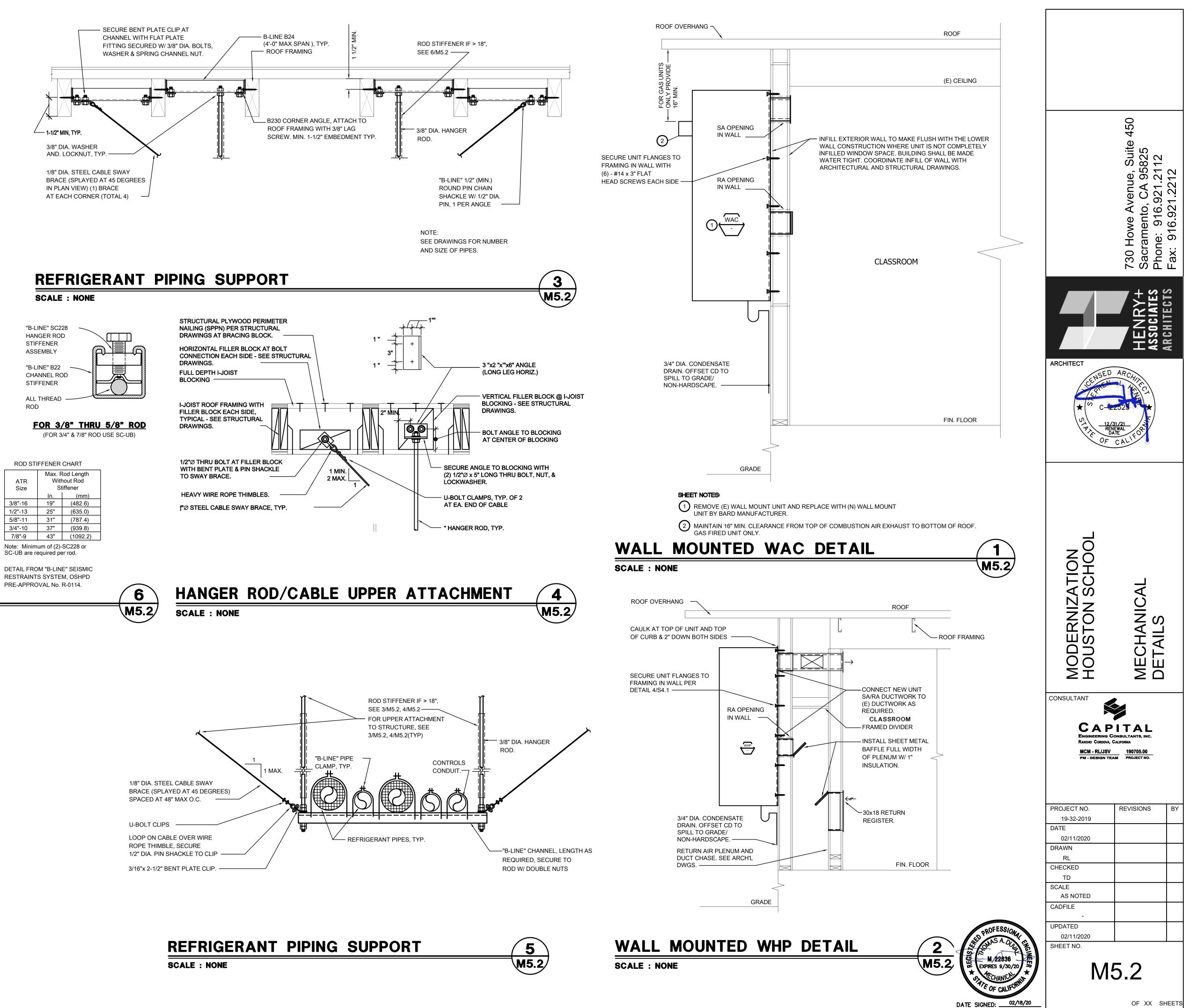
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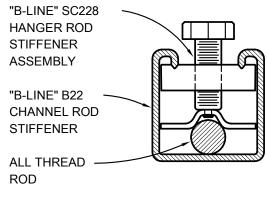










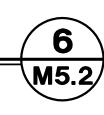




ROD STIFFENER CHART			
ATR Size	Max. Rod Length Without Rod Stiffener		
	In.	(mm)	
3/8"-16	19"	(482.6)	
1/2"-13	25"	(635.0)	
5/8"-11	31"	(787.4)	
3/4"-10	37"	(939.8)	
7/8"-9	43"	(1092.2)	
Note: Minimum of (2)-SC228 or			

Note: Minimum of (2)-SC228 or SC-UB are required per rod.

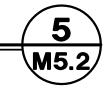
RESTRAINTS SYSTEM, OSHPD PRE-APPROVAL No. R-0114.

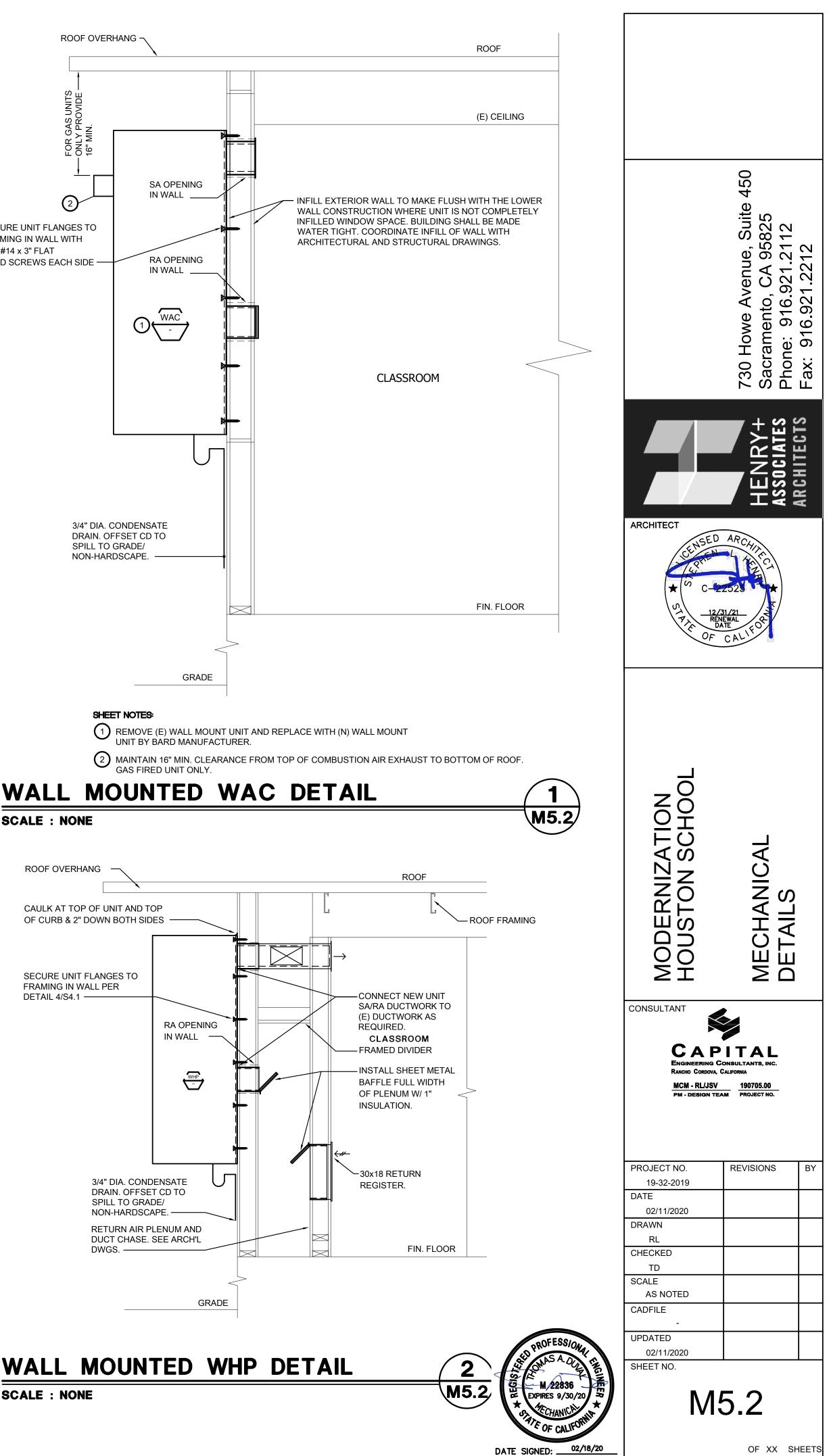


MAX. DISTANCE FROM TOP OF HANGER ROD TO - ALL THREAD FIRST BOLT OF ROD CHANNEL ROD STIFFENER IS 6" -"B-LINE" B22 CHANNEL EQUAL SPACING ROD STIFFENER WITH SC228 ASSEMBLIES MAX. DISTANCE FROM TOP OF HANGER OR TRAPEZE TO THE - SUSPENDED UNIT FIRST BOLT OF CASING CHANNEL ROD STIFFENER IS 6"

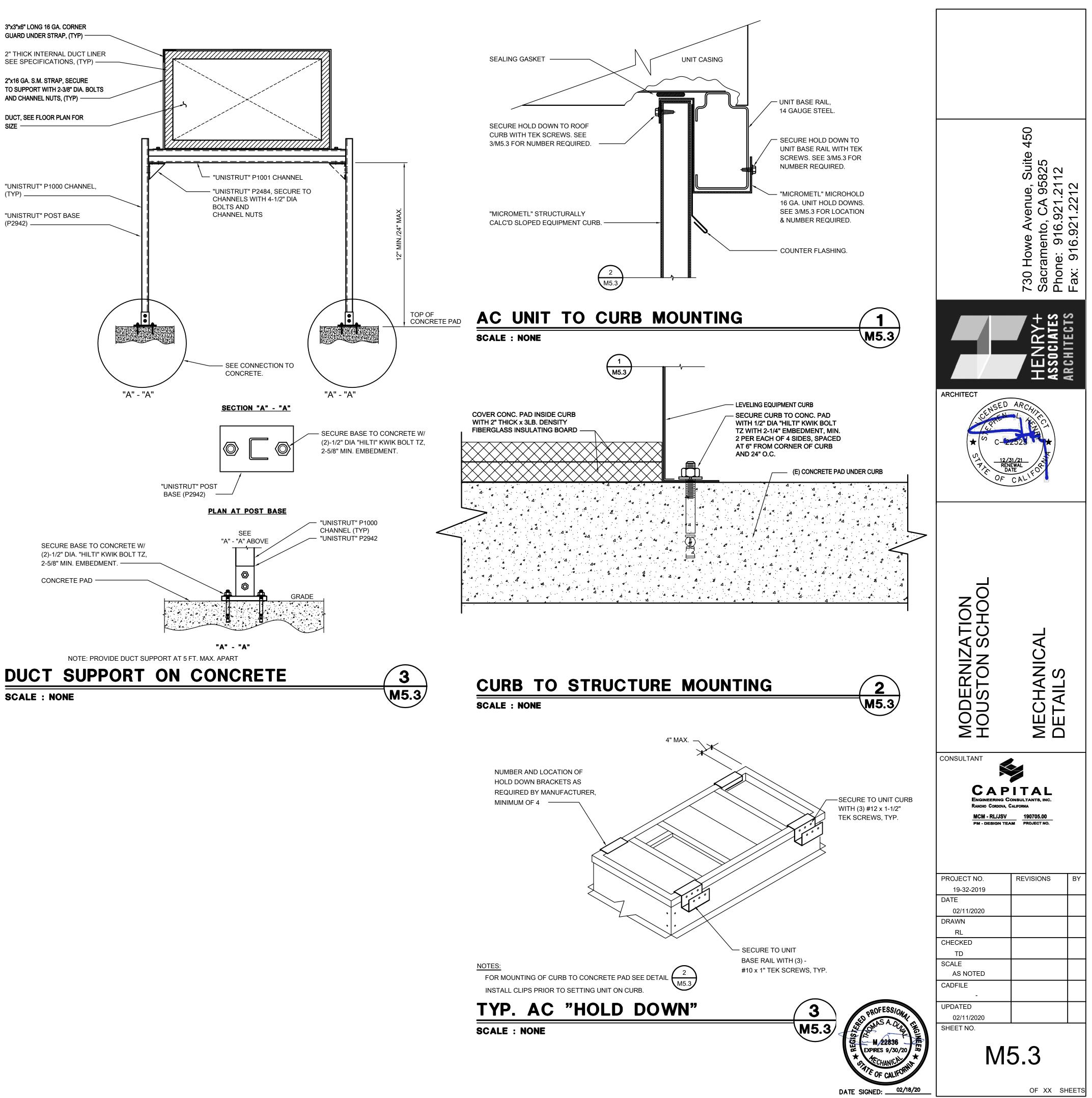
ROD STIFFENER

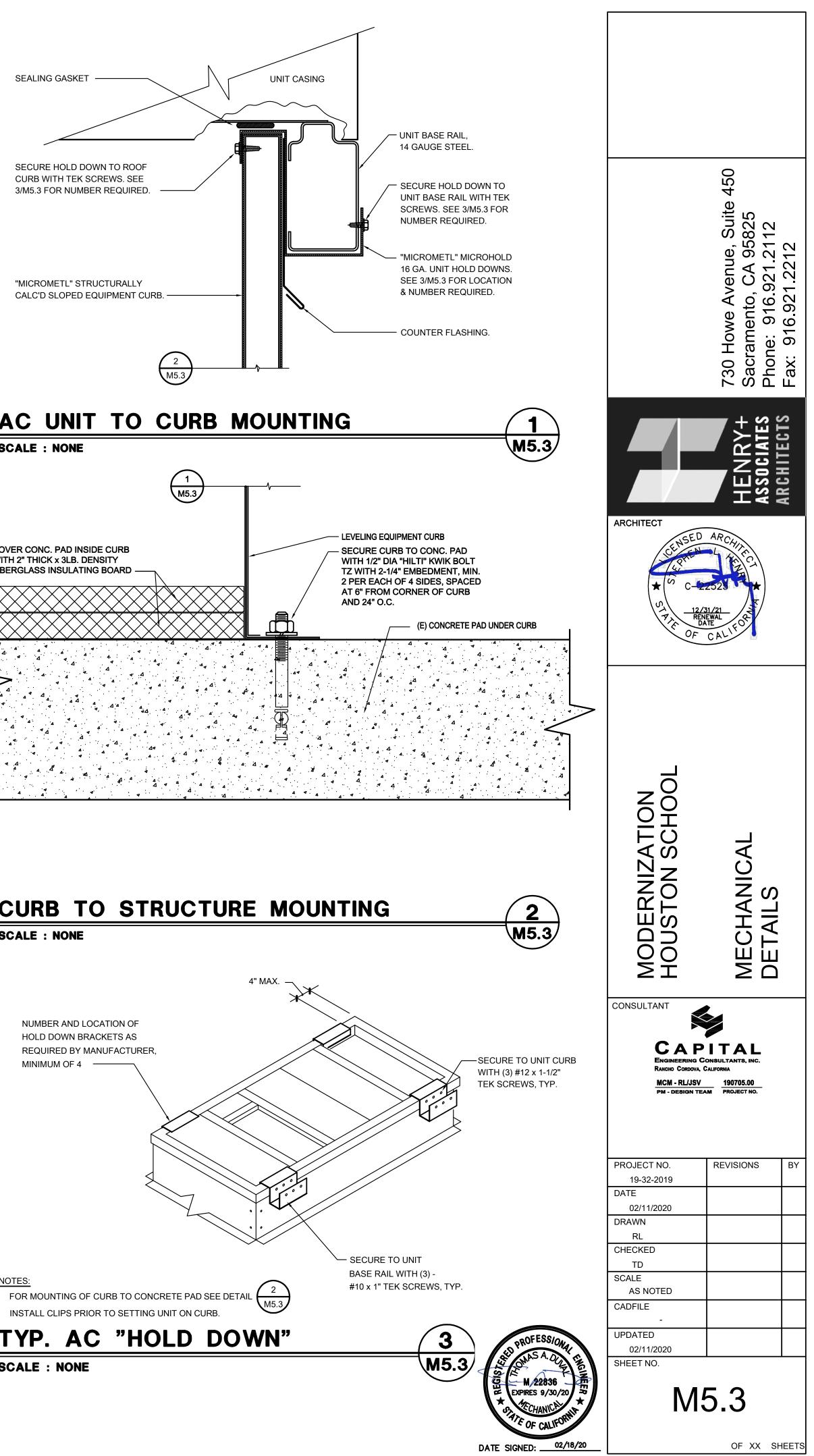
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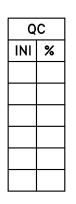


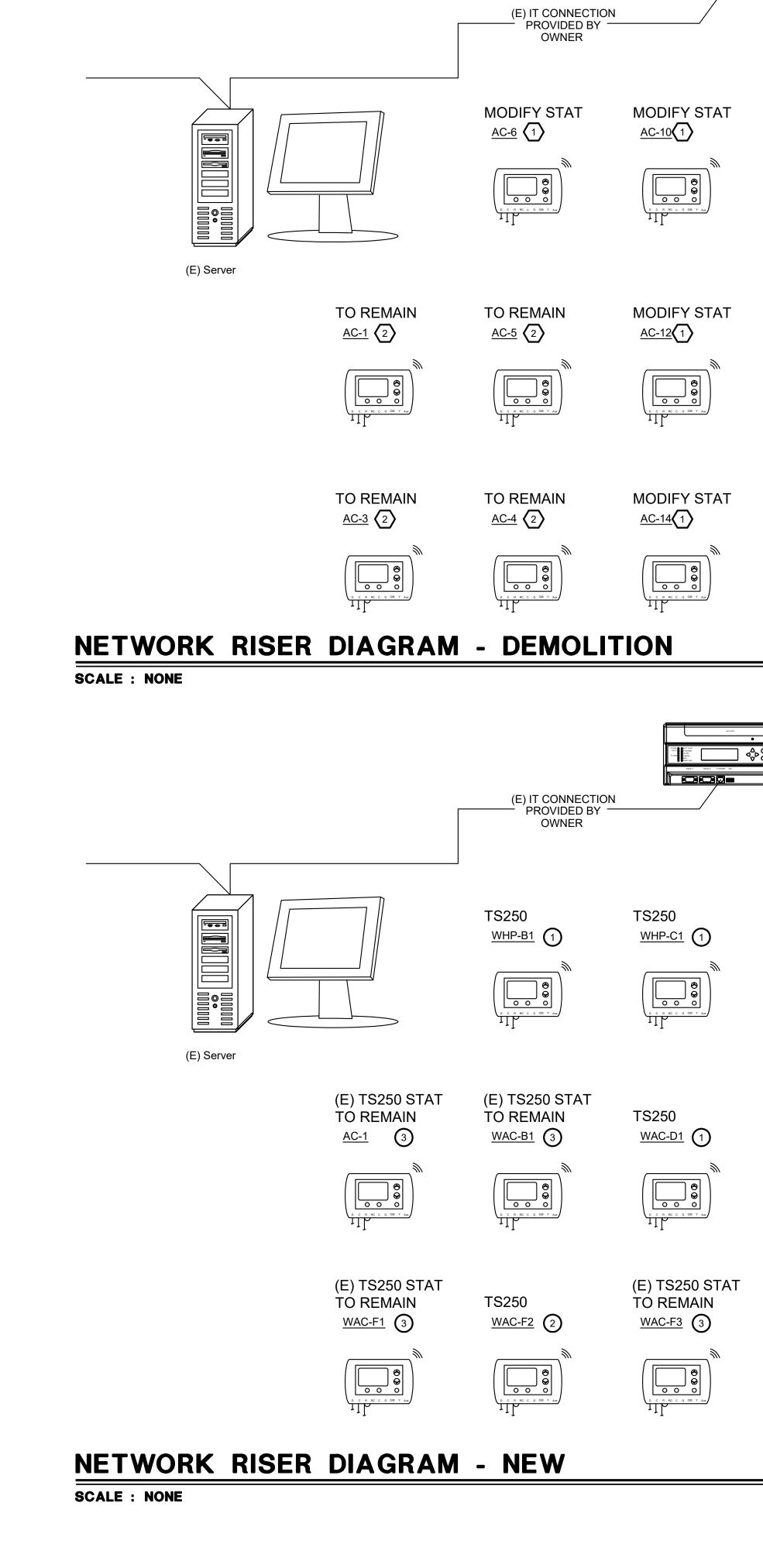


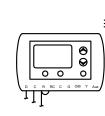
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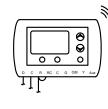








TS250 <u>WAC-F4</u> (2)



TS250 <u>WAC-D2</u> (1)

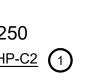


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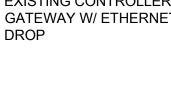
TS250 <u>WHP-C2</u> (1)

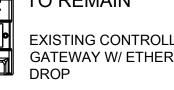


TS250 $\underline{\mathsf{WHP}}_{\mathsf{F1}} (1)$

TS250

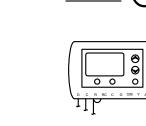
 $\underline{\text{WAC-E1}}$ (1)



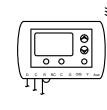


TO REMAIN





TS250 <u>WAC-E2</u> (1)



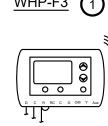
TS250 <u>WHP-F2</u> (1)



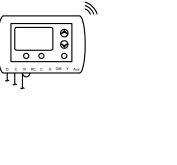
TS250

TS250

 $\underline{\text{WAC-E4}}$ (1)



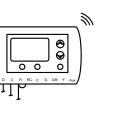
TS250 $\underline{\text{WHP-F3}} (1)$



MODIFY STAT <u>AC-15</u>1



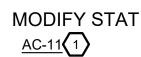
MODIFY STAT

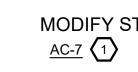


MODIFY STAT

<u>AC-13</u>(1)

<u>AC-11</u>(1)





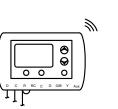


MODIFY STAT

<u>AC-25</u>(1)



<u>AC-24</u>(1)



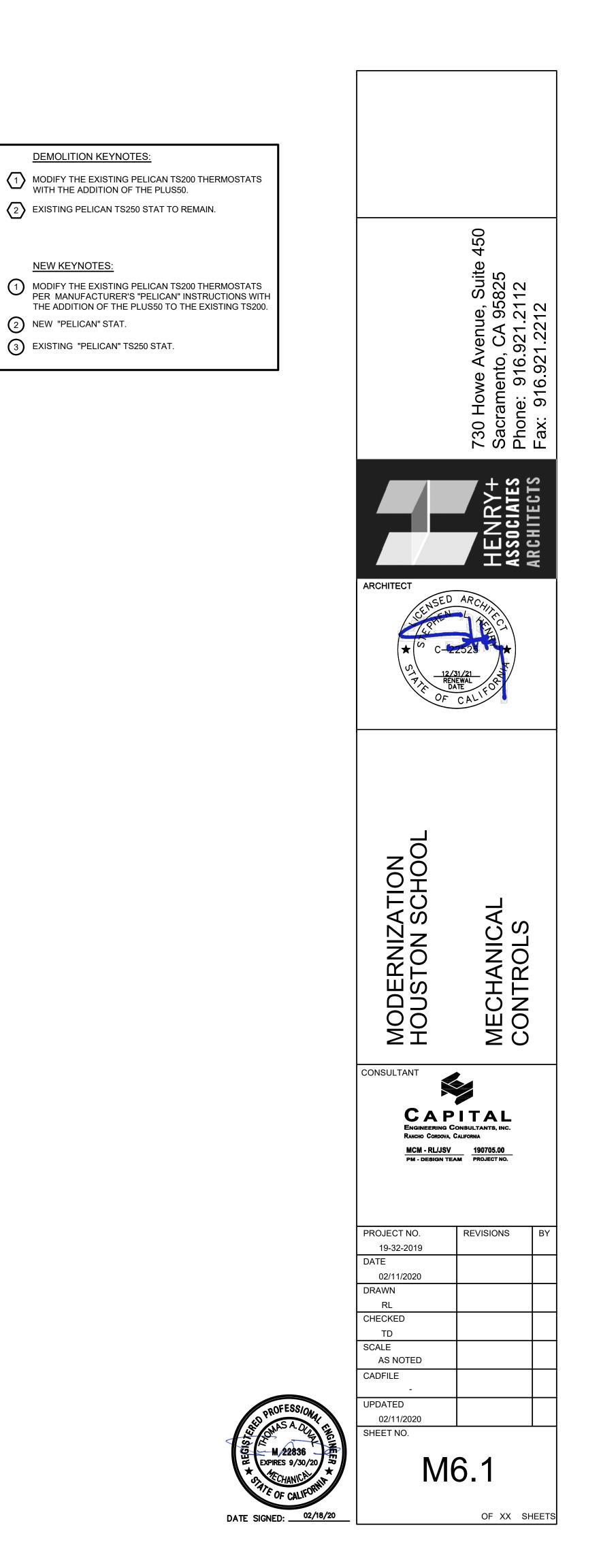
MODIFY STAT <u>AC-8</u> (1)



MODIFY STAT



TO REMAIN EXISTING CONTROLLER/ GATEWAY W/ ETHERNET DROP



M6.1

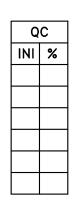
DEMOLITION KEYNOTES:

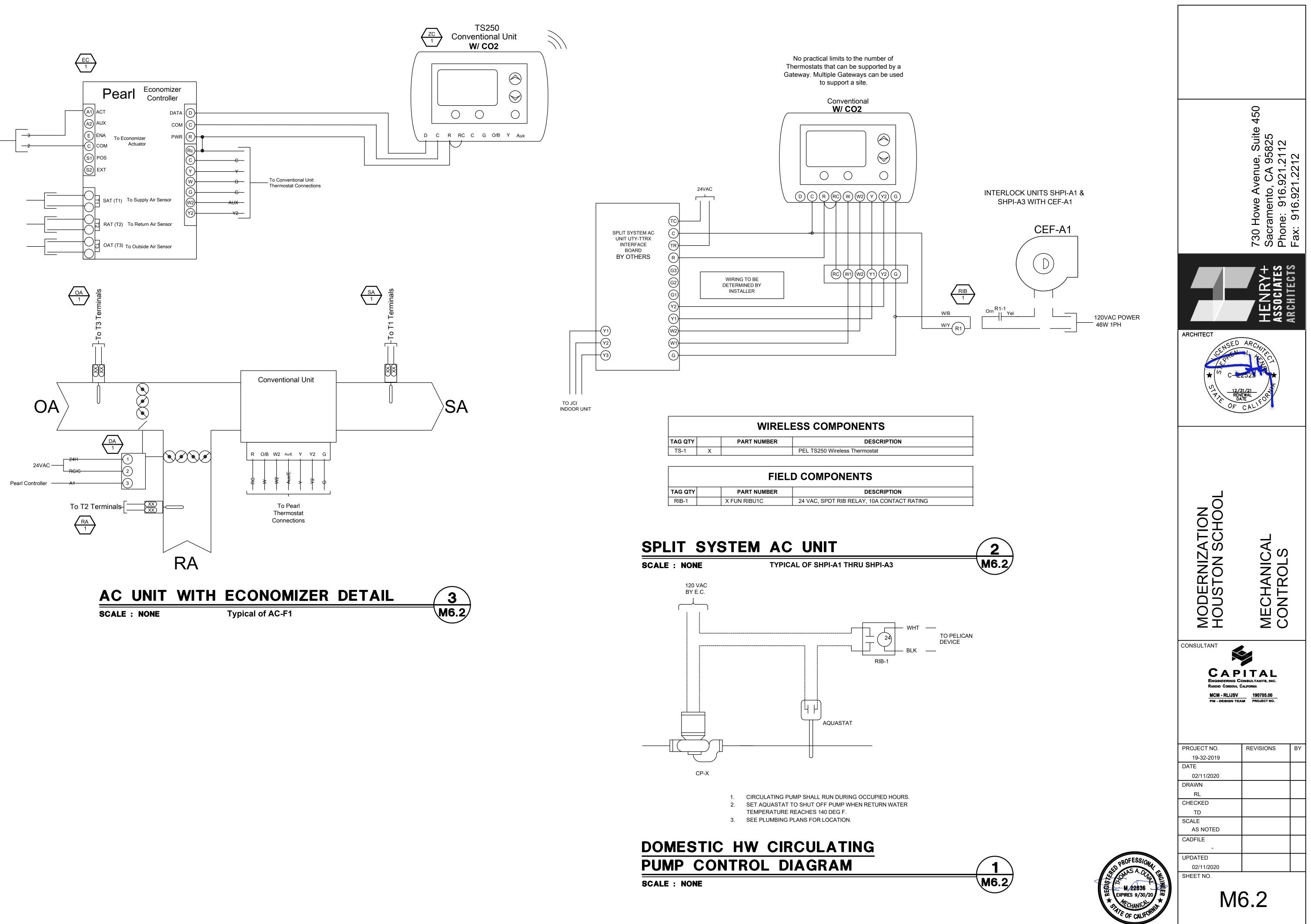
NEW KEYNOTES:

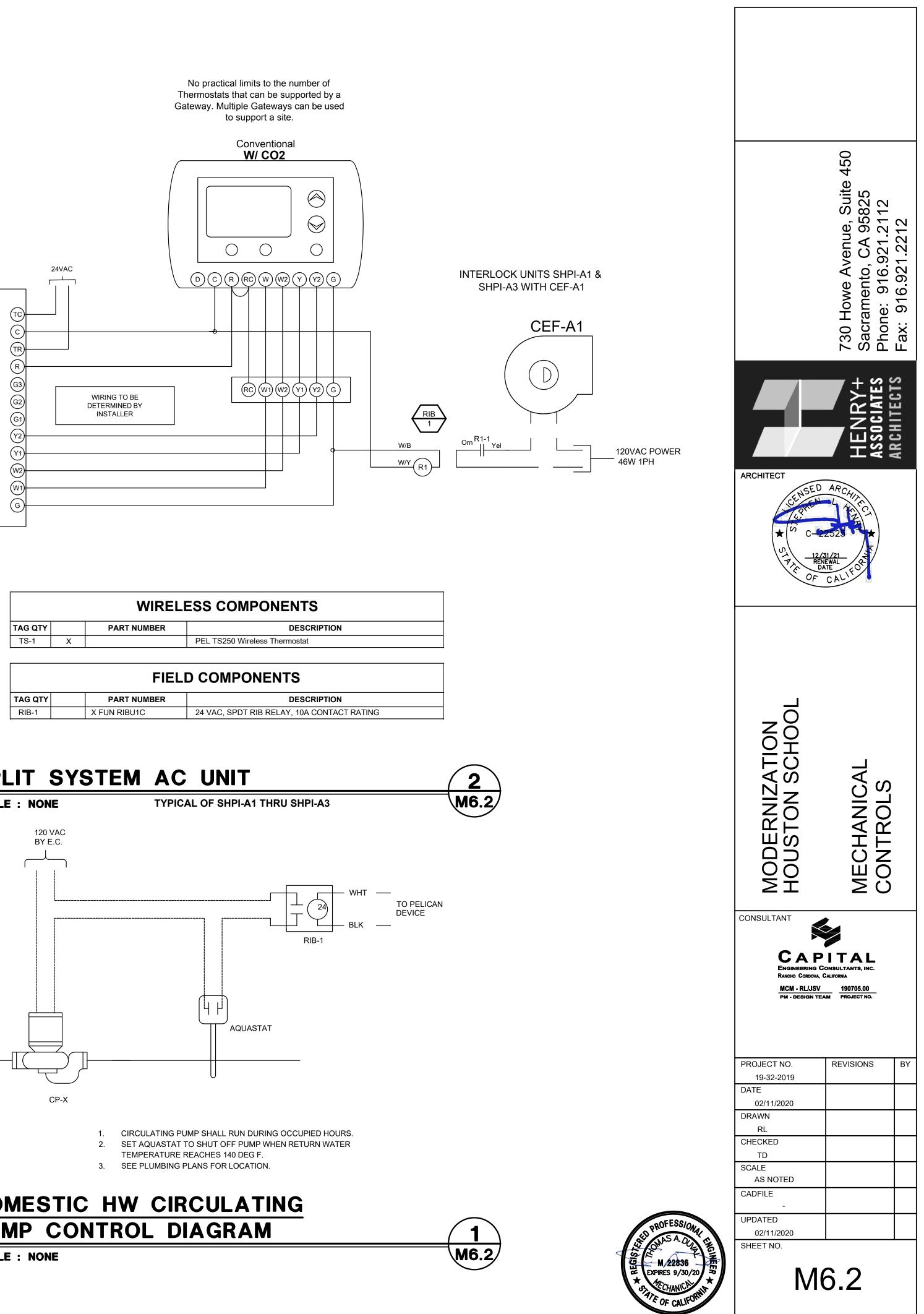
2 NEW "PELICAN" STAT.

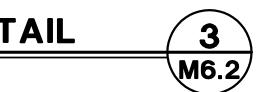
3 EXISTING "PELICAN" TS250 STAT.

2 EXISTING PELICAN TS250 STAT TO REMAIN.

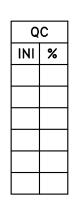


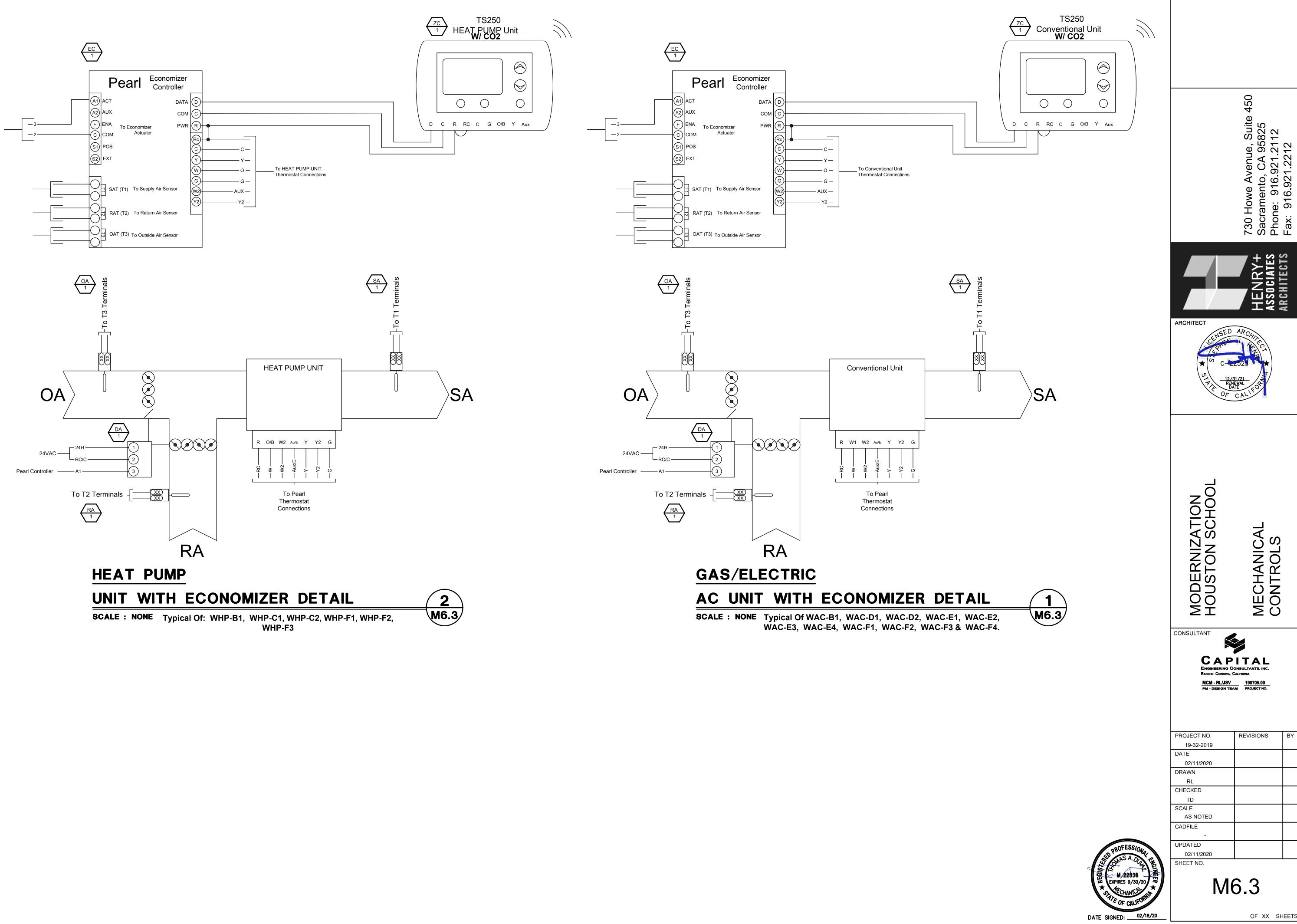






OF XX SHEETS





6.1 MECHANICAL CONTROLS

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Required	ATE OF COM										NRCC-N Pag
Project Name:		tion Houston School	DRAC	0 14/0-	VELLETE			Da	te Prepared: 12/12/20	19	
(indicate i	f worksheet	t is included)									
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YES	NO	Form	2, 1411		Title				gea none systems		
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0	\overline{ullet}	NRCC-MCH-05-E (2	2 of 2)		plans where				water neating, po	
		ency Standards - 2016 f	Nonre	sidential Co	ompliance						
EC-NRCC-N	REMENT			D SING	LE ZONE U	INITS				CALIFORNIA ENERG	Y COMMISS NRCC
Project Name:		ation Houston School	011103					D	Date Prepared: 12/12/20	19	(1)
	ent Tag(s) ¹	CUID 50	_				, C2, F1, F2, F3	WAC B1	A - C - L - J - J ³	WAC D1, D2	
Heating	Equipment	Efficiency ⁴	1	T-24 Section 110.1 or 1	10.2(a)	8 Requirem	P 3.0 COP	Requirement ³ 81% AFUE	As Scheduled ³ 81% 11 FED	Requirement ³ 81% AFUE	As Sch
Thermos			1	110.1 or 1 110.2(b), 1		10.0 EE Prog	Pelican	10.0 EER Prog	11.0 EER Pelican	10.0 EER Prog	11.0 Pe
Low Lea	kage AHU	oss Control ⁶	1	110.2(d) 110.2(f)		NA	NA	NA NA	NA NA	NA NA	
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	r Air and Ex	haust Damper Contro	ol 🚺	120.2(f)							
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	izer FDD		1								Pro
Econom Duct Ins PRESCRI	izer FDD ulation IPTIVE MEA	Shed Controls		120.2(h) 120.2(i) 120.4	b)	NR Req	NR Provided R4.2	NR Req	NR Provided R4.2	NR Req R4.2	Pro R
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STATE OF CALIFORNIA REQUIRED ACCEPTANCE TESTS

CEC-NRCC-MCH-04-E (Revised 01/16) CERTIFICATE OF COMPLIANCE Required Acceptance Tests

Project Name: Modernization Houston School

Date Prepared: 12/12/2019

Page 2 of 3

January 2016

NRCC-PLB-01-

January 2016

Designer: This compliance document is to be used by the designer and attached to the plans. Listed below are all the acceptance tests for mechanical systems. The designer is required to check the applicable boxes by all acceptance tests that apply and list all equipment that requires an acceptance test. If all equipment of a certain type requires a test, list the equipment description and the number of systems. The NA number designates the Section in the Appendix of the Nonresidential Reference Appendices Manual that describes the test. Since this compliance document will be part of the plans, completion of this section will allow the responsible party to budget for the scope of work appropriately.

Enforcement Agency: Systems Acceptance. Before occupancy permit is granted for a newly constructed building or space, or a new space-conditioning system serving a building or space is operated for normal use, all control devices serving the building or space shall be certified as meeting the Acceptance Requirements for Code Compliance.

Systems Acceptance. Before occupancy permit is granted all newly installed HVAC equipment must be tested using the Acceptance Requirements. The NRCC-MCH-04-E compliance document is not considered a completed document and is not to be accepted by the building department unless the correct boxes are checked. The equipment requiring testing, person performing the test (Example: HVAC installer, TAB contractor, controls contractor, PE in charge of project) and what Acceptance test must be conducted. The following checked-off forms are required for ALL newly installed and replaced equipment. In addition a Certificate of Acceptance compliance documents shall be submitted to the building department that certifies plans, specifications, installation certificates, and operating and maintenance information meet the requirements of Section 10-103(b) and Title 24 Part 6. The building inspector must receive the properly filled out and signed compliance documents before the building can receive final occupancy.

			- p p ,		5p					,-		
Test Description	on	MCH-02-A	MCH-03-A	MCH-04-A	MCH-05-A	MCH-06-A	MCH-07-A	MCH-11-A	MCH-12-A	MCH-14-A	MCH-18-A	
Equipment Requiring Testing or Verification	# of Units	Outdoor Air	Single Zone Unitary	Air Distribution Ducts	Economizer Controls	Demand Control Ventilation (DCV)	Supply Fan VAV	Automatic Demand Shed Control	FDD for Packaged DX Units	Distributed Energy Storage DX AC Systems	Energy Management Control System	Test Performed By:
WHP B1, C1, C2, F1, F2, F3	6	1	\checkmark		\checkmark	\checkmark						Installing Contractor
WAC B1,	1	\checkmark	\checkmark		\checkmark	\checkmark						Installing Contractor
WAC D1, D2,	2	\checkmark	√		√							Installing Contractor
WAC E1, thru E4, F1, thru F4	8	1	1		\checkmark							Installing Contractor

Add Row Remove Last

ATE OF CALIFORNIA							
EQUIREMENTS FOR PACKAG C-NRCC-MCH-05-E (Revised 01/16)	ED SINGLE ZONE (JNITS				ALIFORNIA ENERGY	
ERTIFICATE OF COMPLIANCE						ALIFURNIA ENERGI	NRCC-MCH-05-
equirements for Packaged Single-Zone Un	its						(Page 1 of 2
rale at Manual				Dat	e Prepared: 12/12/201	0	(1080 2 01)
Modernization Houston School					12/12/201	9	
Equipment Tag(s) ¹		WAC E1 thru E4, I	F1 thru F4				
MANDATORY MEASURES	T-24 Sections	Requirement ³	As Scheduled ³	Requirement ³	As Scheduled ³	Requirement ³	As Scheduled ³
Heating Equipment Efficiency ⁴	110.1 or 110.2(a)	81% AFUE	82% AFUE				
Cooling Equipment Efficiency ⁴	110.1 or 110.2(a)	10.0 EER	11.7 EER				
Thermostats ⁵	110.2(b), 110.2(c)	Prog	Pelican				
Furnace Standby Loss Control ⁶	110.2(d)	NA	NA				
Low Leakage AHU	110.2(f)	NA	NA.				
Ventilation ⁷	120.1(b)	0.38 cfm/sf	450 cfm				
Demand Control Ventilation ⁸	120.1(c)4	Req	Provided				
Occupant Sensor Ventilation Control ⁸	120.1(c)5, 120.2(e)3	NA	NA.				
Shutoff and Reset Controls ⁹	120.2(e)	Req	Provided				
Outdoor Air and Exhaust Damper Control	120.2(f)	Auto	Auto				
Automatic Demand Shed Controls	120.2(h)	NR	NR				
Economizer FDD	120.2(i)	FDD	FDD				
Duct Insulation	120.4	R4.2	R4.2				
PRESCRIPTIVE MEASURES							
Equipment is sized in conformance with	140.4(a & b)	Y	Y				
140.4 (a & b)							
Economizer	140.4(e)	NR	FDD				
Electric Resistance Heating ¹⁰	140.4(g)	NONE	COMPLIES				
Duct Leakage Sealing and Testing. ¹¹	140.4(I)	NONE	NONE				
Notes:							
1. Provide equipment tags (e.g. AC1 or AC1 t							d handin a ann aite.
 Enter the following information as approp (enter "N/A" if no heating); and, rated coo 	, ,		5			k or neat pump; rate	a neating capacity
 For each requirement, enter the minimum 					,	er "As Scheduled") e	nter the value for
the units as specified.		-					
 Where there is more than one requirement 							
 In the left column identify the thermostati capabilities of the thermostat as schedule. 		lard (e.g. programm	able setback thermo	ostat or heatpump v	with electric heat), .	in the right column	indicate the
 If the unit has a furnace which is rated at 		ndicate the rated sta	ndbv loss and ianiti	ion source (e.a. IID)	. If there is no furna	ice or the unit is rate	ed for <225.000 Btu
indicate "N/A".	· · · · · · · · · · · · · · · · · · ·			(
7. In the left column, enter both the required	-				-	mn enter the actual	minimum
ventilation as scheduled. If the space is no 8. If the space is required to have either DCV					-	loft column) If alth	or DCV or Occurrent
 If the space is required to have either DCV Sensor Ventilation Control is provided indi 					manate nya inthe	elejt columnj. Tjetr	er Dev or occupar

Sensor Ventilation Control is provided indicate "provided" in the right column (otherwise indicate "N/A" in the right column)
In the left column indicate the required time controls from the standard. In the right column identify the device that provides this functionality (e.g. EMCS or programmable timeclock).
Enter N/A if there is no electric heating. If the system has electric heating indicate which exception to 140.4(g) applies.
If duct leakage sealing and testing is required, a MCH-04-A compliance document must be submitted.

CA Building Energy Efficiency Standards - 2016 Nonresidential Compliance

STATE OF CALIFORNIA WATER HEATING SYSTEM GENERAL INFORMATION CERTIFICATE OF COMPLIANCE

CA Building Energy Efficiency Standards - 2016 Nonresidential Compliance

Water Heating System General Information	(Page 2 of 2
Project Name: Joe Serna School	Date Prepared: 12/19/2019
DOCUMENTATION AUTHOR'S DECLARATION STATEMENT	
 I certify that this Certificate of Compliance documentation 	on is accurate and complete. Documentation Author Signature:
Documentation Author Name: Aaron Wintersmith	Documentation Author Signature:
Company: Capital Engineering	Signature Date: 01/20/2020
Address: 11020 Sun Center DR#100	CEA/ HERS Certification Identification (if applicable):
^{City/State/Zip:} Rancho Cordova CA 95670	Phone: 916-851-3500
RESPONSIBLE PERSON'S DECLARATION STATEMENT	
 identified on this Certificate of Compliance (responsible The energy features and performance specifications, m system design identified on this Certificate of Complian California Code of Regulations. The building design features or system design features i information provided on other applicable compliance d the enforcement agency for approval with this building I will ensure that a completed signed copy of this Certific issued for the building, and made available to the enfor signed copy of this Certificate of Compliance is required owner at occupancy. 	ssions Code to accept responsibility for the building design or system design e designer). aterials, components, and manufactured devices for the building design or ce conform to the requirements of Title 24, Part 1 and Part 6 of the identified on this Certificate of Compliance are consistent with the occuments, worksheets, calculations, plans and specifications submitted to permit application. icate of Compliance shall be made available with the building permit(s) crement agency for all applicable inspections. I understand that a completed it be included with the documentation the building provides to the building
Responsible Designer Name: Thomas A Duval	Responsible Designer Signature:
Company : Capital Engineering	Date Signed 01/20/2020
Address: 11020 Sun Center Dr#100	License: M22836
City/State/Zip: Rancho Cordova CA 95670	Phone: 916-851-3500

DOCUMENTATION AUTHOR'S DECLARATION STATEMENT 1. Icertify that this Certificate of Compliance documental Documentation Author Nume: Aaron Wintermith Company: Capital Engineering Address 1. The information provided on this Certificate of Complia 2. I am eligible under Division 3 of the Busiess and Profe designer). 3. The energy features and performance specifications, run conform to the requirements of Title 24, Part 1 and Part 4. The building design features or system design features worksheets, calculations, plans and specifications, sub- sworksheets, calculations, plans and specifications, sub- agency for all applicable inspections. I understand that building owner at occupancy. Responsible Designer Name: Thomas A Duval Company: Capital Engineering Address 11020 Sun Center Dr #100 Citr/State/Zip: Rancho Cordova CA 95670 Address: 1020 Sun Center Dr #100 Citr/State/Zip: Rancho Cordova CA 95670 Documentation Author Name: Aron Wintersmith Company: Capital Engineering Address: 11020 Sun Center DR #1100 Citr/State/Zip: Rancho Cordova CA 95670 Documentation Author Name: Aron Wintersmith Company: Capital Engineering Address: 11020 Sun Center DR #1100 Citr/State/Zip: Rancho Cordova CA 95670 Responsible PERSON'S DECLARATION STATEMENT 1. Certify that this Certificate of Compliance documenta Documentation Author Name: Aron Wintersmith Company: Capital Engineering Address: 11020 Sun Center DR #100 Citr/State/Zip: Responsible PERSON'S DECLARATION STATEMENT 1. Certify the following under penalty of perjury, under 1. The information provided on this Certificate of Compliance documenta Documentation Author Name: Aron Wintersmith Company: Capital Engineering Address: 11020 Sun Center DR #100 Citr/State/Zip: Sacramento CA 95670	,	Modernization Houston School
Company: Capital Engineering Address 11020 Sun Center DR #100 City/State/Zip Rancho Cordova CA 95670 RESPONSIBLE PERSON'S DECLARATION STATIMENT I Certify the following under penalty of perjury, under the la . The information provided on this Certificate of Compile 2. I am eligible under Division 3 of the Busiress and Profe designer). 3. The energy features and performance specifications, un conform to the requirements of Title 24, Part 1 and Par 4. The building design features or system design features worksheets, calculations, plans and specifications subm 5. I will ensure that a completed signed copy of this Certif agency for all applicable inspections. I understand that building owner at occupancy. Responsible Designer Name: Thomas A Duval Company: Capital Engineering Address 11020 Sun Center Dr #100 City/State/Zip Rancho Cordova CA 95670 A Building Energy Efficiency Standards - 2016 Nonresidentia REQUIREMENTS FOR PACKAGED SIN CEC-NECC-MCH-05-E (Revised 01/16) CERTIFICATE OF COMPLIANCE Requirements for Packaged Single-Zone Jnits Project Name: Moderination Houston School DOCUMENTATION AUTHOR'S DECLARATION STATEMENT I Certify that this Certificate of Compliance documenta Documentation Author Name: Aaron Wintersmith Company: Capital Engineering Address: 11020 Sun Center DR #100 City/State/Zip: Rancho Cordova CA 95670 DOCUMENTATION AUTHOR'S DECLARATION STATEMENT I Certify that this Certificate of Compliance documenta Documentation Author Name: Aaron Wintersmith Company: Capital Engineering Address: 11020 Sun Center DR #100 City/State/Zip: Rancho Cordova CA 95670 RESPONSIBLE PERSON'S DECLARATION STATEMENT I Certify the following under penalty of perjury, under I the information provide on this Certificate of Compliance worksheets, calculations, plans and specifications, sub Site The biofformation provide on this Certificate of Compliance worksheets, calculations, plans and specifications, sub Site The information provide on this Certificate of Compliance worksheets, calculations, plans and specifications, su	1 Lrei	rtify that this Certificate of Compliance documentati
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STATE OF CALIFORNIA						
REQUIRED ACCEPTANCE TESTS CEC-NRCC-MCH-04-E (Revised 01/16) CERTIFICATE OF COMPLIANCE	5		CALIFORNIA ENER			
Required Acceptance Tests Project Name: Modernization Houston School			Date Prepared: 12/12/2019	Page 3 of 3		
DOCUMENTATION AUTHOR'S DECLARATION STAT			12/12/2015			
I. I certify that this Certificate of Compliance do Documentation Author Name: Aaron Wintermith	cumentation is accurate and complete.	Documentation Author Signature:	anter			
Company: Capital Engineering Address: 11020 Sun Center DR #100		Signature Date: 01/20/20.				
City/State/Zip: Rancho Cordova CA 95670		Phone: 916-851-3500				
RESPONSIBLE PERSON'S DECLARATION STATEME I certify the following under penalty of perjury, un		·				450
 The information provided on this Certificate d I am eligible under Division 3 of the Busiress designer). 		for the building design or system	n design identified on this Certificate of Compl	iance (responsible		e l
 The energy features and performance specifi conform to the requirements of Title 24, Part 	1 and Part 6 of the California Code of Regula	tions.				
 The building design features or system design worksheets, calculations, plans and specificat I will ensure that a completed signed copy of 	ions submitted to the enforcement agency fo	r approval with this building perr	mit application.			N 7 22 -
agency for all applicable inspections. I unders			d to be included with the documentation the b			venue , CA 9 .921.2 1.221:
Responsible Designer Name: Thomas A Duval		Responsible Designer Signature:	Kor Ar D			vel 92 12
Address 11020 Sun Center Dr #100		01/20/2020	0			A ج 16 92
^{City/State/Zip:} Rancho Cordova CA 95670		^{Phone:} 916-851-3500				30 Howe A acramento hone: 916 ax: 916.92
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STATE OF CALIFORNIA REQUIREMENTS FOR PACKAGE	D SINGLE ZONE UNITS					A A T A
CEC-NRCC-MCH-05-E (Revised 01/16) CERTIFICATE OF COMPLIANCE			CALIFORNIA ENER	NRCC-MCH-05-E	ARCHITECT	
Requirements for Packaged Single-Zone Unit Project Name: Moderinzation Houston School	S		Date Prepared: 12/12/2019	(Page 2 of 2)	CENSED	ARCHITA
DOCUMENTATION AUTHOR'S DECLARATION STA					1 Pm	
1. I certify that this Certificate of Compliance d Documentation Author Name: Aaron Wintersmit	ocumentation is accurate and complete.	tion Author Signature:	and a		* 6 C-2	2525
Company: Capital Engineering	Signature D	01/20/2020			(v) 12/	N /21
Address: 11020 Sun Center DR #100 City/State/Zip: Rancho Cordova CA 9567		Certification Identification (if applicable): 916-851-3563			T REN DA	EWAL C
RESPONSIBLE PERSON'S DECLARATION STATEM	ENT	510 001 0000			OF	CAL
 Certify the following under penalty of perjulation The information provided on this Certificate Lam eligible under Division 3 of the Business 		v for the building design or system	m design identified on this Certificate of Com	pliance (responsible		
designer).3. The energy features and performance speci						
4. The building design features or system design		mpliance are consistent with the		npliance documents,		
5. I will ensure that a completed signed copy of		available with the building perm				
building owner at occupancy. Responsible Designer Name: Thomas A Duval		e Designer Signature:	A			
Company: Capital Engineering	Date Signe	^{d:} 01/20/2020				~
Address: 11020 Sun Center Dr #100 City/State/Zip: Sacramento CA 95670	License: Phone:	M22836 916-851-3500				
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PLUMBING LEGEND

	PLUN	ABING LEGEND
SYMBOL	ABBREVIATION	DESCRIPTION
	ABC	ABOVE CEILING
	AFF	ABOVE FINISHED FLOOR
	AF , BF AD , AP	ABOVE FLOOR , BELOW FLOOR ACCESS DOOR , ACCESS PANEL
	BV	BALL VALVE
	BFF	BELOW FINISHED FLOOR
		BRANCH - TOP CONNECTION
or		BRANCH - BOTTOM CONNECTION BRANCH - SIDE CONNECTION
	СОР	CAP ON END OF PIPE
	CW	COLD WATER
CD	CD DN	CONDENSATE DRAIN LINE DOWN
	DFU	DRAIN FIXTURE UNIT
PCD co	PCD	PUMPED CONDENSATE DRAIN
	CO	CLEANOUT EXISTING TO BE REMOVED
	(E)	EXISTING TO REMAIN
-++++++++++ -	(E)	EXISTING TO BE ABANDONED, CAP WHERE SHOWN
	EWH	ELECTRIC WATER HEATER
FF=	F IL	FINISHED FLOOR ELEVATION FIXTURE UNIT
FU Ø	FU FCO	FLOOR CLEANOUT
ø	FD	FLOOR DRAIN
	FS	FLOOR SINK
FV , FT	FV , FT	FLOW IN DIRECTION OF ARROW FLUSH VALVE , FLUSH TANK
(FA) , (TA)	(FA) , (TA)	FROM ABOVE , TO ABOVE
(FB) , (TB)	(FB), (TB)	FROM BELOW, TO BELOW
Q	GSCK , PC G	GAS COCK , PLUG COCK GAS - LOW PRESSURE
R	GPR	GAS PRESSURE REGULATOR
		GATE VALVE, BALL VALVE, SHUT OFF VALVE
Ø	GPM GCO	GALLONS PER MINUTE GRADE CLEANOUT, EXTERIOR
GW	GW	GREASE WASTE PIPING
	HB	HOSE BIBB
	HW HWR	HOT WATER PIPING HOT WATER RETURN
IW	IW	INDIRECT DRAIN, CONDENSATE DRAIN
	IE or INV	INVERT ELEVATION
	L	LAVATORY SINK
MG	LL, DL MG	LONGEST LENGTH (GAS), DEVELOPED LENGTH MEDIUM PRESSURE GAS
	(N) , (E)	NEW, EXISTING
	(NTS)	NOT TO SCALE
OFI	OH OFL	OVERHEAD OVERFLOW RAINWATER LEADER
	OD	OVERFLOW DRAIN
•	POC	POINT OF CONNECTION, NEW TO EXISTING
──── P & TRV ────	P & TRV PRV	PRESSURE & TEMPERATURE RELIEF VALVE PIPING PRESSURE REDUCING VALVE
RWL	RWL	RAINWATER LEADER
t	WH	RECESSED BOX HOSE BIBB OR WALL HYDRANT
教	RV or P&TRV	RELIEF VALVE OR PRESSURE & TEMPERATURE RELIEF VALVE
	(R), (D)	RISE , DROP RISER DOWN (ELBOW)
o		RISER UP (ELBOW)
——————————————————————————————————————	RD	ROOF DRAIN
SD	SD	SOLENOID VALVE WITH MOTOR ACTUATOR STORM DRAIN
	S or SK	SINK
P	TP	TRAP PRIMER
ifP	ТҮР	TRAP PRIMER PIPING TYPICAL
	UN	UNION OR FLANGE
	UG	UNDERGROUND
\$	UR	URINAL VALVE IN RISER (TVPE AS INDICATED OR NOTED)
⊗	VB	VALVE IN RISER (TYPE AS INDICATED OR NOTED) VALVE IN VALVE BOX
	V	VENT PIPING
V , VR , VTR	Waa	VENT, VENT RISER, VENT THRU ROOF
1 — –	WCO WC	WALL CLEANOUT WATER CLOSET
	WH	WALL HYDRANT
	W OR SS	SOIL, WASTE OR SANITARY SEWER
F	WHA	WATER HAMMER ARRESTER
† & †	MICTELL	CW & HW FIXTURE CONNECTION STUB OR ANGLE STOP
	WSFU	WATER SUPPLY FIXTURE UNIT

MEP COMPONENT ANCHORAGE NOTE

ALL MECHANICAL, PLUMBING, AND ELECTRICAL COMPONENTS SHALL BE ANCHORED AND INSTALLED PER THE DETAILS ON THE DSA APPROVED CONSTRUCTION DOCUMENTS. WHERE NO DETAIL IS INDICATED, THE FOLLOWING COMPONENTS SHALL BE ANCHORED OR BRACED TO MEET THE FORCE AND DISPLACEMENT REQUIREMENTS PRESCRIBED IN THE 2016 CBC, SECTIONS 1616A.1.18 THROUGH 1616A.1.26 AND ASCE 7-10 CHAPTER 13, 26 AND 30.

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

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

A. COMPONENTS WEIGHING LESS THAN 400 POUNDS AND HAVE A CENTER OF MASS LOCATED 4 FEET OR LESS ABOVE THE ADJACENT FLOOR OR ROOF LEVEL THAT DIRECTLY SUPPORT THE COMPONENT.

B. COMPONENTS WEIGHING LESS THAN 20 POUNDS, OR IN THE CASE OF 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 DESIGN PROFESSIONAL IN GENERAL RESPONSIBLE CHARGE OR STRUCTURAL ENGINEER DELEGATED RESPONSIBILITY AND THE DSA DISTRICT STRUCTURAL ENGINEER. THE PROJECT INSPECTOR WILL VERIFY THAT ALL COMPONENTS AND EQUIPMENT HAVE BEEN ANCHORED IN ACCORDANCE WITH ABOVE REQUIREMENTS.

PIPING, DUCTWORK & ELECTRICAL DISTRIBUTION SYSTEM BRACING NOTE

PIPING, DUCTWORK, AND ELECTRICAL DISTRIBUTION SYSTEMS SHALL BE BRACED TO COMPLY WITH THE FORCES AND DISPLACEMENTS PRESCRIBED IN ASCE 7-10 SECTION 13.3 AS DEFINED IN ASCE 7-10 SECTION 13.6.5.6, 13.6.7, 13.6.8, AND 2016 CBC, SECTIONS 1616A.1.23, 1616A.1.24, 1616A.1.25 AND 1616A.1.26.

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

MECHANICAL PIPING (MP), MECHANICAL DUCTS (MD), PLUMBING PIPING (PP), ELECTRICAL DISTRIBUTION SYSTEMS (E): OPTION 1: DETAILED ON THE APPROVED DRAWINGS WITH PROJECT SPECIFIC NOTES MPO MDO PPO EO AND DETAILS MP MD PP E C OPTION 2: SHALL COMPLY WITH THE APPLICABLE OSHPD PRE-APPROVED (OPM #) #0043-13 BY MASON INDUSTRIES, INC. $MP \square MD \square PP \square$ OPTION 3: SHALL COMPLY WITH THE SMACNA SEISMIC RESTRAINT MANUAL. OSHPD EDITION (2009), INCLUDING ANY ADDENDA. FASTENERS AND OTHER ATTACHMENTS NOT SPECIFICALLY IDENTIFIED IN THE SMACNA SEISMIC RESTRAINT MANUAL, OSHPD EDITION. ARE DETAILED ON THE APPROVED DRAWINGS WITH PROJECT SPECIFIC NOTES AND DETAILS. THE DETAILS SHALL ACCOUNT FOR THE APPLICABLE SEISMIC HAZARD LEVEL _____ AND CONNECTION LEVEL _____ FOR THE PROJECT AND CONDITIONS.

- SIZE.
- THE ENFORCING AGENCY.
- CLEANOUTS AT ALL OFFSETS.

- PRO-SET, OR EQUAL.
- WITH CHAPTER 7, CBC REQUIREMENTS.
- NOISE AND TO PROVIDE WATERPROOFING.

PLUMBING GENERAL NOTES

1. SEE ARCHITECTURAL DRAWINGS FOR BUILDING DIMENSIONS AND EXACT LOCATIONS OF PLUMBING FIXTURES.

2. COORDINATE LOCATION OF PIPING WITH OTHER TRADES ON THIS PROJECT.

3. CONCEAL ALL PIPING IN WALL FURRING, PARTITIONS, ETC., EXCEPT AT MECHANICAL ROOMS.

4. PROVIDE BALL VALVES ON WATER PIPE BRANCHES TO EQUIPMENT AND PLUMBING FIXTURES. PROVIDE ACCESS PANELS WHEN LOCATED IN FURRED SPACES OR ABOVE NON-REMOVABLE CEILINGS. ALL VALVES SHALL BE FULL LINE SIZE.

5. SEAL ALL PIPE PENETRATIONS THRU FLOORS WATERTIGHT.

6. PROVIDE GAS SHUT-OFF VALVE, UNION AND DIRT LEG AT EACH GAS CONNECTION TO MECHANICAL EQUIPMENT.

DOMESTIC HOT WATER HEATERS SHALL BE SEISMICALLY SECURED TO BUILDING STRUCTURE WITH ADEQUATE STRUCTURAL SUPPORT WITH ANCHOR BOLTS TO WITHSTAND 0.29 LATERAL AND VERTICAL LOADS.

8. PRIOR TO ANY SOLENOID VALVE, QUICK CLOSING VALVE, ETC. PROVIDE AND INSTALL SHOCK ABSORBER OF REQUIRED

9. PENETRATIONS OF RATED ASSEMBLIES SHALL BE FIRE-STOPPED. FIRE STOPPING SHALL BE AN APPROVED MATERIAL OF

10. OFFSET VENTS THRU ROOF 10 FEET MINIMUM FROM AIR INTAKES AND 4 FEET FROM OUTSIDE WALLS.

11. CONDENSATE DRAIN LINE CONNECTIONS TO MECHANICAL UNITS SHALL INCLUDE MINIMUM 4" DEEP "P" TRAP AND

12. ALL MECHANICAL UNITS ARE SHOWN FOR REFERENCE AND COORDINATION ONLY. SEE "M" SHEETS.

13. OFFSET ALL RISERS AND DROPS TO AVOID PENETRATIONS AT TOP PLATES.

14. FIELD VERIFY EXACT SIZES, LOCATIONS AND ELEVATIONS OF ALL PIPING CONNECTIONS, OTHER WORK, ETC., PRIOR TO TRENCHING OR INSTALLING OF ANY NEW WORK.

. BUILDING SEWER, WATER AND STORM DRAIN RUN APPROXIMATELY 5' MIN. FROM BUILDING SHALL BE PER SPECIFICATIONS DIVISION 22 AND APPLIES TO UTILITIES IN THE BUILDING, UNDER THE BUILDING AND TO 5' OUTSIDE THE BUILDING. FOR PIPING BEYOND 5' OUTSIDE OF THE BUILDING, SPECIFICATIONS DIVISION 33 SHALL GOVERN.

FIRESTOPPING

1. PACK THE ANNULAR SPACE BETWEEN THE PIPE SLEEVES AND THE PIPE THROUGH ALL FLOORS AND WALLS WITH UL LISTED FIRE STOP, AND SEALED AT THE ENDS. ALL PIPE PENETRATIONS SHALL BE UL LISTED, HILTI, 3M

A. INSTALL FIRE CAULKING BEHIND MECHANICAL SERVICES INSTALLED WITHIN FIRE RATED WALLS, TO MAINTAIN CONTINUOUS RATING OF WALL CONSTRUCTION.

2. PROVIDE SPECSEAL SYSTEMS UL FIRE RATED SLEEVE/COUPLING PENETRATORS FOR EACH PIPE PENETRATION OR FIXTURE OPENING PASSING THROUGH FLOORS, WALLS, PARTITIONS OR FLOOR/CEILING ASSEMBLIES. ALL PENETRATORS SHALL COMPLY WITH UL FIRE RESISTANCE DIRECTORY (LATEST EDITION), AND IN ACCORDANCE

3. SLEEVE PENETRATORS SHALL HAVE A BUILT IN ANCHOR RING FOR WATERPROOFING AND ANCHORING INTO CONCRETE POURS OR USE THE SPECIAL FIT CORED HOLE PENETRATOR FOR CORED HOLES.

4. COPPER AND STEEL PIPING SHALL HAVE SPECSEAL PLUGS ON BOTH SIDES OF THE PENETRATOR TO REDUCE

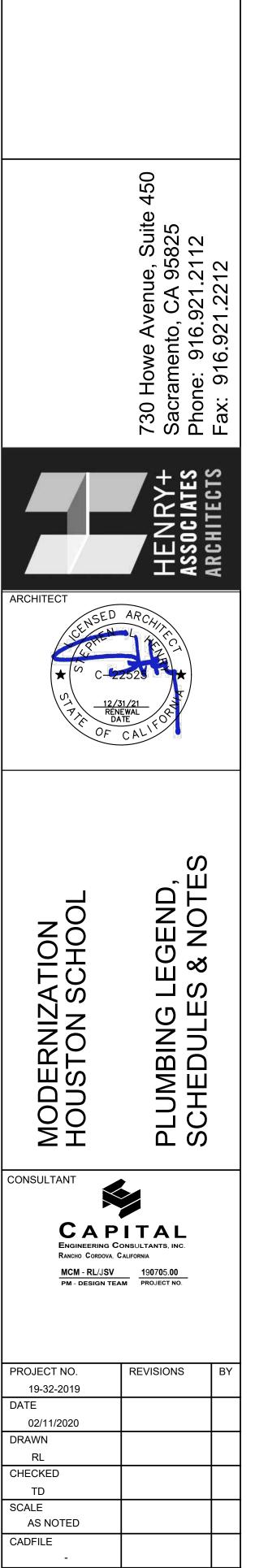
5. ALL ABOVE SYSTEMS TO BE INSTALLED IN STRICT ACCORDANCE WITH MANUFACTURER'S INSTRUCTIONS. 6. ALTERNATE FIRESTOPPING SYSTEMS ARE ACCEPTABLE IF APPROVED EQUAL. HOWEVER, ANY DEVIATION FROM THE ABOVE SPECIFICATION REQUIRES THE CONTRACTOR TO BE RESPONSIBLE FOR DETERMINING THE SUITABILITY OF THE PROPOSED PRODUCTS AND THEIR INTENDED USE, AND THE CONTRACTOR SHALL ASSUME ALL RISKS AND LIABILITIES WHATSOEVER IN CONNECTION THEREWITH.



UPDATED

02/18/2020 SHEET NO.

P0.1



DATE SIGNED: 02/18/20

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				ELE	CTRIC	WAT	ER HE	ATER	SCHE	DULE		
UNIT	LOCATION	"AO SMITH" MODEL NO.	STORAGE CAPACITY GALLONS	RECOVERY GALLONS @ 100°F RISE	MAX. TEMP SETTING	KW	VOLTAGE	AMPS	WEIGHT (FULL)	PIPING DETAIL	MOUNTING DETAIL	NOTES
EWH F1	BLDG F JAN F111	DEL-15 4KW	15	16	120 F	4.0	208V/1Ø	19.2	200LBS	4 P5.1		PROVIDE WATER HEATER SHELF WITH DRAIN PAN. SLOPE DRAIN FROM PAN TOWARDS APPROVED RECEPTOR. INSTALL SHELF AS HIGH AS POSSIBLE. SET WATER HEATER TO 120F.

SYMBOL	FIXTURE NAME	QTY	USER HW TEMP	GPH EACH @ USER TEMP	GPH EACH @ WH TEMP	GPH TOTAL PER ITEM	UNI
LAV	COMMERCIAL - LAVATORY	2.00	105.00	6.00	4.62	9.23	
SINK	SINK	0.00	105.00	10.00	7.69	0.00	$\left\{\begin{array}{c} CP\\ F1\end{array}\right.$
HAND SINK	HAND SINK	0.00	105.00	6.00	4.62	0.00	
KITCHEN SINK	KITCHEN SINK	0.00	105.00	20.00	15.38	0.00	
SERVICE SINK	SERVICE SINK	1.00	110.00	20.00	16.92	16.92	
POT FILLER	POT FILLER	0.00	120.00	6.00	6.00	0.00	
1 COMP SK	SINGLE COMPARTMENT SINK	0.00	120.00	30.00	30.00	0.00	UNIT
2 COMP SK	DOUBLE COMPARTMENT SINK	0.00	120.00	60.00	60.00	0.00	
3 COMP SK	TRIPLE COMPARTMENT SINK	0.00	120.00	90.00	90.00	0.00	$\begin{array}{ c c }\hline & ET \\ \hline & F1 \\ \hline \end{array}$
PRE-RINSE UNIT	PRE-RINSE UNIT	0.00	120.00	45.00	45.00	0.00	
DISHWASHER	DISHWASHER	0.00	140.00	126.00	164.77	0.00	
CAN WASH UNIT	CAN WASH UNIT	0.00	140.00	45.00	58.85	0.00	
					TOTAL GPH	26.15	
NLET TEMP		55.00		TANK VOL	15	GALLONS	
WH TEMP		120.00		±1ST HR RECOV	35.71	GALLONS	
TEMP DIFF		65.00		1KW =	3412.142	BTUH	
WATER HEATER EI	FFICIENCY	1.000					
GPH USAGE DIVER	SITY FACTOR	0.65					
GPH WITH DIV FAC	TOR = TOTAL GPH X FACTOR	17.00					
GAS INPUT =	GPH X TEMP DIFF X 8.33LBS/GAL X	(1BTU/LB/°F /	WATER HEATER	REFF			
=	9,204.65	BTUH					
=	2.70	KW					
USE =	4.00	KW					
USE =	4.00	KW					

NOTE(S):

1. USER TEMP ABV IS ASSUMED WARMEST BEARABLE BY USER OR BY FUNCTION.

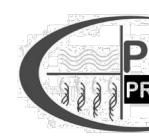
2. WARNING: PER ASHRAE CHAPTER 50 FIGURE 9, IT TAKES ABT 10 MINS TO CAUSE 3RD DEGREE BURNS USING 120F HOT WATER. FOR 140F HOTWATER, IT ONLY TAKES ABOUT 5 SECONDS TO DO SAME DAMAGE. PLEASE LIMIT HOT WATER TEMP THRU USE

OF THERMOSTATIC MIXING VALVES OR USE OF INTEGRAL LIMITING DEVICE IF AVAILABLE.

3. 1ST HR RECOVERY BASED FROM 0.7xWH TANK VOLUME + PERFORMANCE GPH

CII LOCATION BLDG F JAN F111

	EXPANSION TANK SCHEDULE						
UNIT	LOCATION	"AMTROL" MODEL NO.	TANK VOLUME GALLONS	MAX. ACCEPT. VOLUME	DETAIL	NOTES	
ET F1	BLDG F JAN F111	ST-5	2.0	0.9	6 P5.1	8"Ø x 13 ", 15 LBS. SUPPORT W/QUICK STRAP #QS-5	



Size	Type of Wall	Copper	Steel	CPVC	PVC Pressure	PVC/ABS DWV	Other
	CONCRETE	A-1010-a	A-1010-a	A-1011-a	A-1011-a	A-1011-a	Multiple Pipes
1/2"	BLOCK	A-1010-g	A-1010-g	A-1011-g	A-1011-g	A-1011-g	A-1003-ax
	GYPSUM	A-1012-f or 13-f	A-1012-f or 13-f	A-1012-f or 13-f	A-1012-f or 13-f	A-1012-f or 13-f	Chilled Water
	CONCRETE	A-1010-a	A-1010-a	A-1011-a	A-1011-a	A-1011-a	A-1000-a
3/4"	BLOCK	A-1010-g	A-1010-g	A-1011-g	A-1011-g	A-1011-g	Glass Pipe
	GYPSUM	A-1012-f or 13-f	A-1012-f or 13-f	A-1012-f or 13-f	A-1012-f or 13-f	A-1012-f or 13-f	A-1015-a
	CONCRETE	A-1010-a	A-1010-a	A-1011-a	A-1011-a	A-1011-a	Waterproof
1"	BLOCK	A-1010-g	A-1010-g	A-1011-g	A-1011-g	A-1011-g	Thru-pipe
	GYPSUM	A-1012-f or 13-f	A-1012-f or 13-f	A-1012-f or 13-f	A-1012-f or 13-f	A-1012-f or 13-f	A-1017-g
	CONCRETE	A-1010-a	A-1010-a	A-1011-a	A-1011-a	A-1011-a	Optional Wall
1 1/4"	BLOCK	A-1010-g	A-1010-g	A-1011-g	A-1011-g	A-1011-g	Sleeve Fasteners
	GYPSUM	A-1012-f or 13-f	A-1012-f or 13-f	A-1012-f or 13-f	A-1012-f or 13-f	A-1012-f or 13-f	For Gypsum Wal
	CONCRETE	A-1010-a	A-1010-a	A-1011-a	A-1011-a	A-1011-a	A-1012-f and
1 1/2"	BLOCK	A-1010-g	A-1010-g	A-1011-g	A-1011-g	A-1011-g	A-1013-f or
	GYPSUM	A-1012-f or 13-f	A-1012-f or 13-f	A-1012-f or 13-f	A-1012-f or 13-f	A-1012-f or 13-f	A-1014-f and
	CONCRETE	A-1014-a	A-1014-a	A-1015-a	A-1015-a	C-9049-a	A-1015-f
2"	BLOCK	A-1015-g	A-1015-g	A-1015-g	A-1015-g	C-9049-g	polypropylene
	GYPSUM	A-1014-f	A-1014-f	A-1015-f	A-1015-f	C-9049-f	Acid waste pipe
	CONCRETE	A-1014-a	A-1014-a	A-1015-a	A-1015-a	C-9049-a	C-9049-f
2 1/2"	BLOCK	A-1015-g	A-1015-g	A-1015-g	A-1015-g	C-9049-g	C-9049-g
	GYPSUM	A-1014-f	A-1014-f	A-1015-f	A-1015-f	C-9049-f	Polyethylene
	CONCRETE	A-1014-a	A-1014-a	A-1015-a	A-1015-a	C-9049-a	A-1011-a
3"	BLOCK	A-1015-g	A-1015-g	A-1015-g	A-1015-g	C-9049-g	A-1011-g
	GYPSUM	A-1014-f	A-1014-f	A-1015-f	A-1015-f	C-9049-f	A-1012-f or
	CONCRETE	A-1014-a	A-1014-a	A-1015-a	A-1015-a	C-9049-a	A-1013-f
4"	BLOCK	A-1015-g	A-1015-g	A-1015-g	A-1015-g	C-9049-g	Insulated pipe
	GYPSUM	A-1014-f	A-1014-f	A-1015-f	A-1015-f	C-9049-f	A-1004-a
	CONCRETE	A-1014-a	A-1014-a	A-1015-a	A-1015-a	N.A	A-1010-ai
5"	BLOCK	A-1015-g	A-1015-g	A-1015-g	A-1015-g	N.A	Refrigeration
	GYPSUM	A-1014-f	A-1014-f	A-1015-f	A-1015-f	N.A	A-1003-a
	CONCRETE	A-1014-a	A-1014-a	A-1015-a	A-1015-a	N.A	
6"	BLOCK	A-1015-g	A-1015-g	A-1015-g	A-1015-g	N.A	
	GYPSUM	A-1014-f	A-1014-f	A-1015-f	A-1015-f	N.A	
Plun		Il Openings: 1-1/2 tlet 3" or 4" Water Clos tems, Inc., 1355 Capita	sets See ProSe	t Drawing No. C-449	2-a and C-4492-dhc	Gee drawing No. C-81	12-f



SCALE : NONE

RCULATING PUMP SCHEDULE							
	"B&G" MODEL NO.	GPM	FT OF HEAD	WATTS	VOLTAGE	CONTROLS	NOTES
	NBF-8	1	7	39	115V/1Ø	1 M6.2	9.5 LBS; 0.38FLA PROVIDE AQUASTAT, SEE SPECS

1	XPANSIC	ON TAI	VK SC	HEDU	LE	
						1

ProSet FIRESTOP WALL PENETRATOR GUIDE Penetrators through Masonry & Gypsum Walls

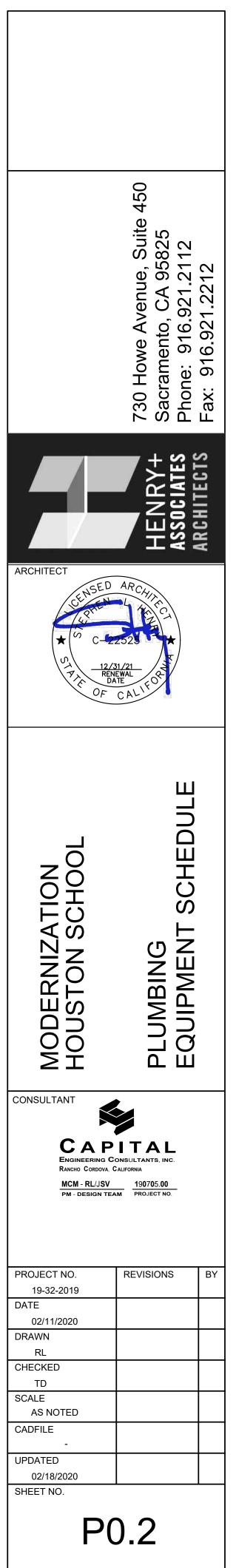
PROSET PROTECTION

Recommended drawing numbers are shown below Other options may be available

FIRESTOP WALL PENETRATION GUIDE

1 P0.2





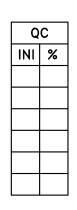
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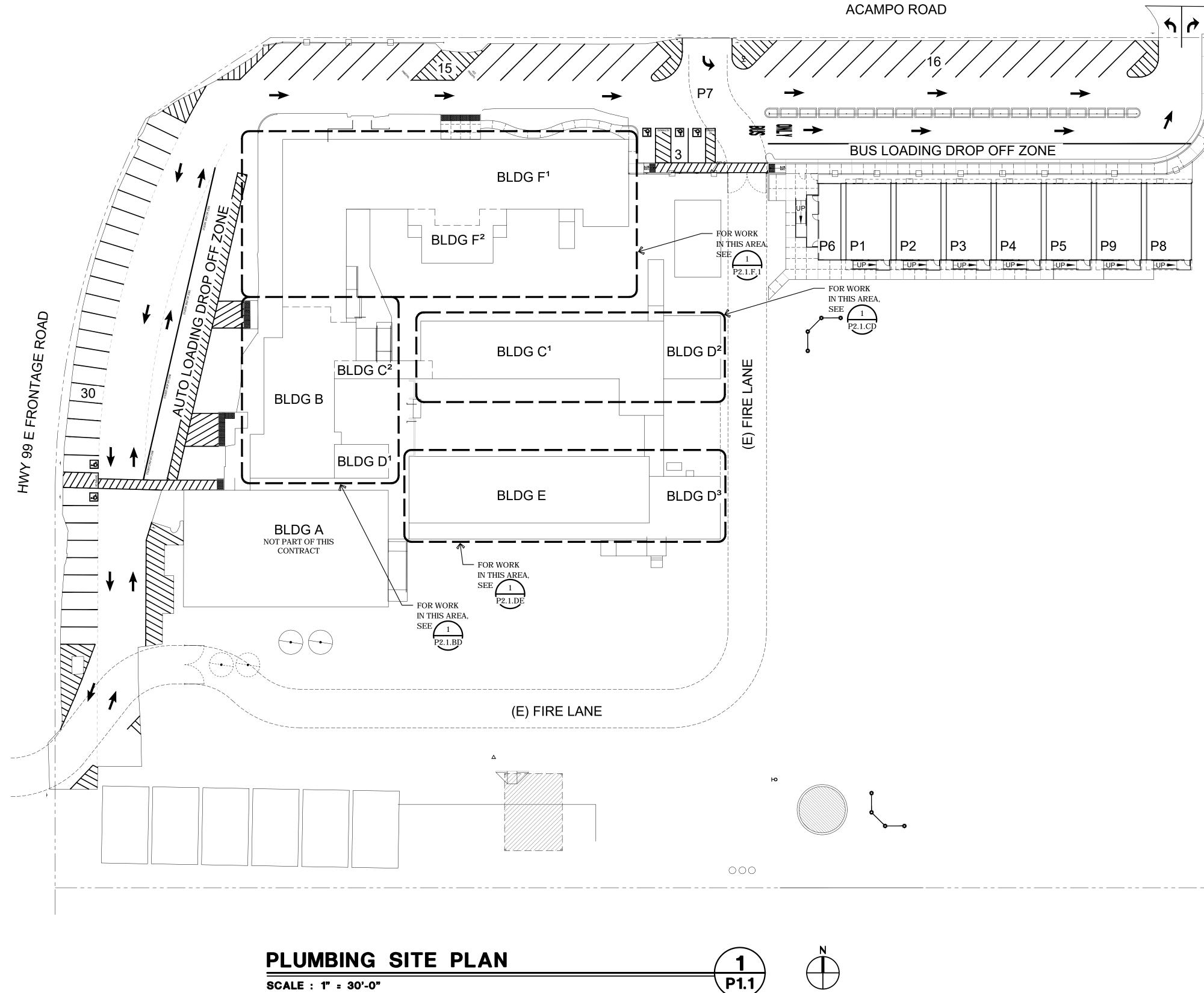
	SYMBOL	FIXTURE	FIXTURE	FAUCET OR VALVE	TRIM	REMARKS	VENT	WA	STE	COLD	WATER	HOT	WATER
ADA	SIMBOL	FIXTURE	MANUFACTURER AND MODEL No.	MANUFACTURER AND MODEL No.	MANUFACTURER AND MODEL No.	REMARKS	VENI	BRANCH	OUTLET	BRANCH	OUTLET	BRANCH	OUTLE
B	WC-1	WATER CLOSET FLOOR MOUNTED FLUSH VALVE ACCESSIBLE	"AMERICAN STANDARD" MADERA EL NO. 3461.001, 1.28 GPF FLOOR MOUNTED, ELONGATED, SIPHON JET ACTION 1-1/2" TOP SPUD, 16-1/2" RIM HEIGHT.	"SLOAN" ROYAL 111 HET 1.28, ADA COMPLIANT, 1.28 GPF (MANUAL) SEE DETAIL 3/P5.1	SEAT: "CHURCH" MODEL 295SSCT OR "BEMIS" MODEL 1955SSCT. PROVIDE WITH SELF- SUSTAINING CONCEALED CHECK HINGES, ONE PIECE STAINLESS STEEL POST HINGES, WHITE COLOR.	WHERE USED FOR CBC ACCESSIBLE WATER CLOSETS, THE FLUSH VALVE HANDLE SHALL BE MOUNTED ON THE WIDE SIDE OF THE WATER CLOSET ENCLOSURE.	2"	4"	4"	1-1/2"	1"	-	-
	WC-2	WATER CLOSET FLOOR MOUNTED FLUSH VALVE STANDARD	"AMERICAN STANDARD" MADERA NO. 3451.001, 1.28 GPF FLOOR MOUNTED, ELONGATED, SIPHON JET ACTION 1-1/2" TOP SPUD, 15" RIM HEIGHT.	"SLOAN" ROYAL 111 HET 1.28, ADA COMPLIANT, 1.28 GPF (MANUAL) SEE DETAIL 3/P5.1	SEAT: "CHURCH" MODEL 295SSCT OR "BEMIS" MODEL 1955SSCT. PROVIDE WITH SELF- SUSTAINING CONCEALED CHECK HINGES, ONE PIECE STAINLESS STEEL POST HINGES, WHITE COLOR.	WHERE USED FOR CBC ACCESSIBLE WATER CLOSETS, THE FLUSH VALVE HANDLE SHALL BE MOUNTED ON THE WIDE SIDE OF THE WATER CLOSET ENCLOSURE.	2"	4"	4"	1-1/2"	1"	-	-
G J	UR-1	URINAL WALL MOUNTED FLUSH VALVE ACCESSIBLE	"AMERICAN STANDARD" PINTBROOK NO. 6002.001, 0.125 GPF, WALL HUNG, VITREOUS CHINA, SIPHON JET ACTION. 3/4" TOP SPUD, 2" THREADED OUTLET.	"SLOAN" ROYAL 186-0.125DBP, 0.125 GPF (MANUAL) POLISHED CHROME SEE DETAILS 3/P5.1 & 6/P5.1	CARRIER: "J.R. SMITH" 637 SERIES OR "ZURN" Z1222	MOUNT AT HEIGHT INDICATED ON ARCHITECTURAL DRAWINGS.	1 1/2"	2"	2"	1-1/2"	3/4"		
F	L-1	LAVATORY WALL MOUNTED HOT & COLD STD/ACCESSIBLE STAFF & ADMIN	"AMERICAN STANDARD" LUCERNE NO. 0355.012, WALL HUNG, VITREOUS CHINA WITH CONTOURED BACK AND SIDE SPLASH SHIELDS, FRONT OVERFLOW, CONCEALED ARM RECESS, 4" CENTERS, 20" x 18" D SHAPED BOWL.	"MOEN" 8886 NEWER VERSION FAUCET, TWO-HANDLE ADA METERING FAUCET, CHROME PLATED SOLID BRASS CONSTRUCTION, 4" CENTERSET, VANDAL RESISTANT, 0.5GPM MAX. PROVIDE AASE 1070 TMV. ADJUST OUTLET WATER TEMPERATURE TO COMFORTABLE TEMPERATURE OR NO MORE THAN 110° F.	ADA COMPLIANT. LAVATORY GRID DRAIN WITH 1-1/4" OFFSET TAILPIECE, INTEGRAL PERFORATED GRID NO. 7723.018, CHROME FINISH. MOUNT P-TRAP FLUSH TO WALL. CARRIER: "J R SMITH" 0700 OR ZURN Z1231	MOUNT AT HEIGHT INDICATED ON ARCHITECTURAL DRAWINGS. PROVIDE CONCEALED ARMS AND FLOOR SUPPORT, WITH FEET OF SUPPORT SECURELY ANCHORED TO FLOOR. IN ADDITION ANCHOR TOP OF SUPPORT TO WALL CONSTRUCTION.	1 1/2"	2"	1 1/2"	3/4"	1/2"	3/4"	1/2"
ß	L-2	LAVATORY WALL MOUNTED COLD WATER ONLY STD/ACCESSIBLE	"AMERICAN STANDARD" LUCERNE NO. 0355.012, WALL HUNG, VITREOUS CHINA WITH CONTOURED BACK AND SIDE SPLASH SHIELDS, FRONT OVERFLOW, CONCEALED ARM RECESS, 4" CENTERS, 20" x 18" D SHAPED BOWL.	"MOEN" 8884 NEWER VERSION, SINGLE-HANDLE ADA METERING LAVATORY FAUCET, CHROME PLATED SOLID BRASS CONSTRUCTION, SINGLE HOLE MOUNT, 0.5GPM MAX, ADA COMPLIANT. PROVIDE WITH DECK PLATE	ADA COMPLIANT. LAVATORY GRID DRAIN WITH 1-1/4" OFFSET TAILPIECE, INTEGRAL PERFORATED GRID NO. 7723.018, CHROME FINISH. MOUNT P-TRAP FLUSH TO WALL. CARRIER: "J R SMITH" 0700 OR ZURN Z1231	MOUNT AT HEIGHT INDICATED ON ARCHITECTURAL DRAWINGS. PROVIDE CONCEALED ARMS AND FLOOR SUPPORT, WITH FEET OF SUPPORT SECURELY ANCHORED TO FLOOR. IN ADDITION ANCHOR TOP OF SUPPORT TO WALL CONSTRUCTION.	1 1/2"	2"	1 1/2"	3/4"	1/2"	-	-
•	SS-1	SERVICE SINK FLOOR MOUNTED HOT AND COLD WATER JANITORS	"ACORN" TSH-24-SSC, TERRAZZO-WARE, 24"x24"x12" DEEP FLOOR MOUNTED, TERRAZZO, WITH STAINLESS STEEL CAP ON ALL FOUR TOP SURFACES. UNIT SHALL INCLUDE MODEL KH36 HOSE WITH WALL HANGER, KMH MOP HANGER WITH 3 SPRING LOADED GRIPS ON A STAINLESS STEEL BRACKET.	"CHICAGO" MODEL 897-CP WALL MOUNTED POLISHED CHROME FAUCET WITH VACUUM BREAKER, ADJUSTABLE TOP BRACE AND 3/4" MALE THREADED HOSE OUTLET.		AS PART OF ROUGH-IN FOR FAUCET, PROVIDE SUITABLE BLOCKING FOR TOP BRACE. PROVIDE CAP WITH FLANGE ON SIDES ADJACENT TO WALLS.	2"	3"	3"	3/4"	3/4"	3/4"	3/4"
J Q F	DF-1	DRINKING FOUNTAIN WALL MOUNTED STD/ACCESSIBLE DUAL HEIGHT W/ BOTTLE FILLER OUTDOOR	"ELKAY" VRCTLDDWSK, DUAL HEIGHT WITH SENSOR BOTTLE FILLER, WALL MOUNTED (ON WALL) ADA INDOOR/OUTDOOR RATED, LEAD FREE, NON-REFRIGERATED. PROVIDE 115V/60HZ, 1 FLA, 15WATTS POWER OUTLET. SEE INSTALLATION INSTRUCTIONS FOR MORE INFORMATION. PROVIDE FILTER.	INTEGRAL	WITH P-TRAP	PROVIDE MANUFACTURER'S INTERNAL SUPPORT SYSTEM ELKAY MLP200. WHERE INSTALLED ON CONCRETE OR CMU WALL, PROVIDE TWO MOUNTING PLATES AND INSTALL WITH ONE PLATE ON EACH SIDE OF WALL. SET AT HEIGHT INDICATED ON ARCH DRAWINGS.	1 1/2"	2"	1 1/2"	3/4"	1/2"	-	-
0	FD	FLOOR DRAIN	GENERAL SERVICE FD - ZURN MODEL Z-415, OR EQUAL, WITH TYPE "B" STRAINER FOR EXPOSED CONCRETE AND TYPE "S" STRAINER FOR TILE FLOOR. PROVIDE BRONZE TRIM.FD IN COMPOSITION TYPE FLOORS - ZURN MODEL Z-415, OR EQUAL, WITH TYPE SL STRAINER.FD IN RESINOUS/EPOXY TYPE FLOORS - ZURN MODEL Z-415BL, OR EQUAL, NICKEL BRONZE WITH ADJUSTABLE STRAINER.				2"	2"	2"	-	-	-	-
<u></u>	TP TP-2	TRAP PRIMER ELEC TRAP PRIMER	MIFAB "M-500" SERIES, REQUIRES 3PSI DROP TO ACTIVATE. SIOUX CHIEF 695-ES01 ELECTRONIC TRAP PRIMER, PROVIDE DISTRIBUTION SPLITTER TO PRIME UP TO 8 DRAINS. PROVIDE 120VAC 9.2WATTS 60HZ POWER SUPPLY.			PROVIDE ACCESS PANEL SEE DETAIL 2/P5.1	-	-	-	1/2"	1/2"	-	-
	НВ	HOSE BIBB	INTERIOR WALL MOUNTED - ACORN MODEL 8121CP-LF WOODFORD MODEL 24PC, OR EQUAL.	WITH INTEGRAL VACUUM BREAKER PROTECTED, CARTRIDGE OPERATED HOSE VALVE WITH LOCK SHIELD BONNET AND REMOVABLE KEY HANDLE.		SET HEIGHT AT 18" ABOVE FINISHED FLOOR	-	-	-	1"	3/4"	-	-
모	WHA	WATER HAMMER ARRESTOR	SEE SPECIFICATIONS										
1. WATE A. B.	PROVIDE ALL	ND STOPS: PERCENT IPS RED BRASS PIPI WATER SUPPLIES TO FIXTUR	E, SECURELY ANCHORED TO BUILDING CONSTRUCTION, FOR EACH CORES WITH COMPRESSION SHUT-OFF STOPS WITH IPS INLETS WITH THE DUCING COUPLING FOR ALL FIXTURES, UNLESS OTHERWISE NOTED. R	EADED BRASS NIPPLES AT PIPE CONNECTION AND LOCK SHIELD LC						EACH STOP.			L

PRODUCT SUBMITTAL INFORMATION PROVING COMPLIANCE WITH LEAD FREE REQUIREMENTS. ALSO SEE GENERAL NOTES ON SHEET P0.1 AND SPECIFICATION SECTIONS, 22 00 50, 22 10 00 AND 22 40 00.

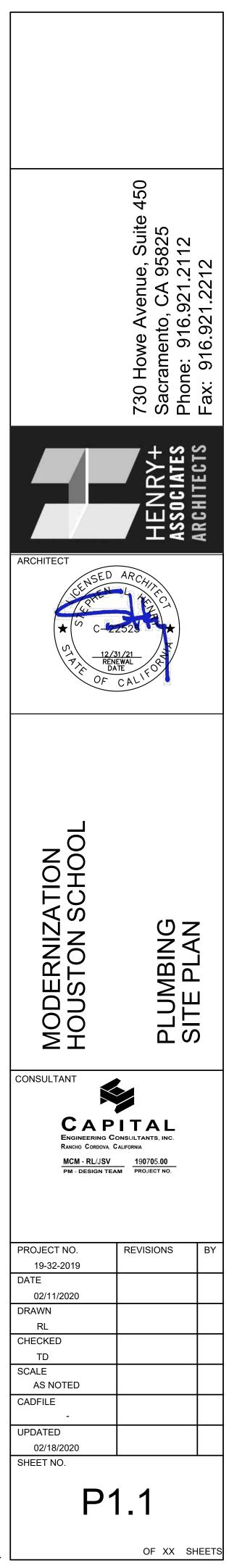
	730 Howe Avenue, Suite 450 Sacramento, CA 95825 Phone: 916.921.2112 Fax: 916.921.2212
ARCHITECT	HENRY+ ASSOCIATES
MODERNIZATION HOUSTON SCHOOL	PLUMBING FIXTURE SCHEDULE
Engineering Rancho Cordova MCM - RL/JSV	
PROJECT NO. 19-32-2019 DATE 02/11/2020 DRAWN RL CHECKED TD SCALE AS NOTED CADFILE - UPDATED 02/18/2020 SHEET NO.	REVISIONS BY Image: Constraint of the second sec
P	0.3 OF XX SHEETS



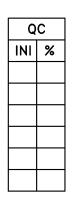


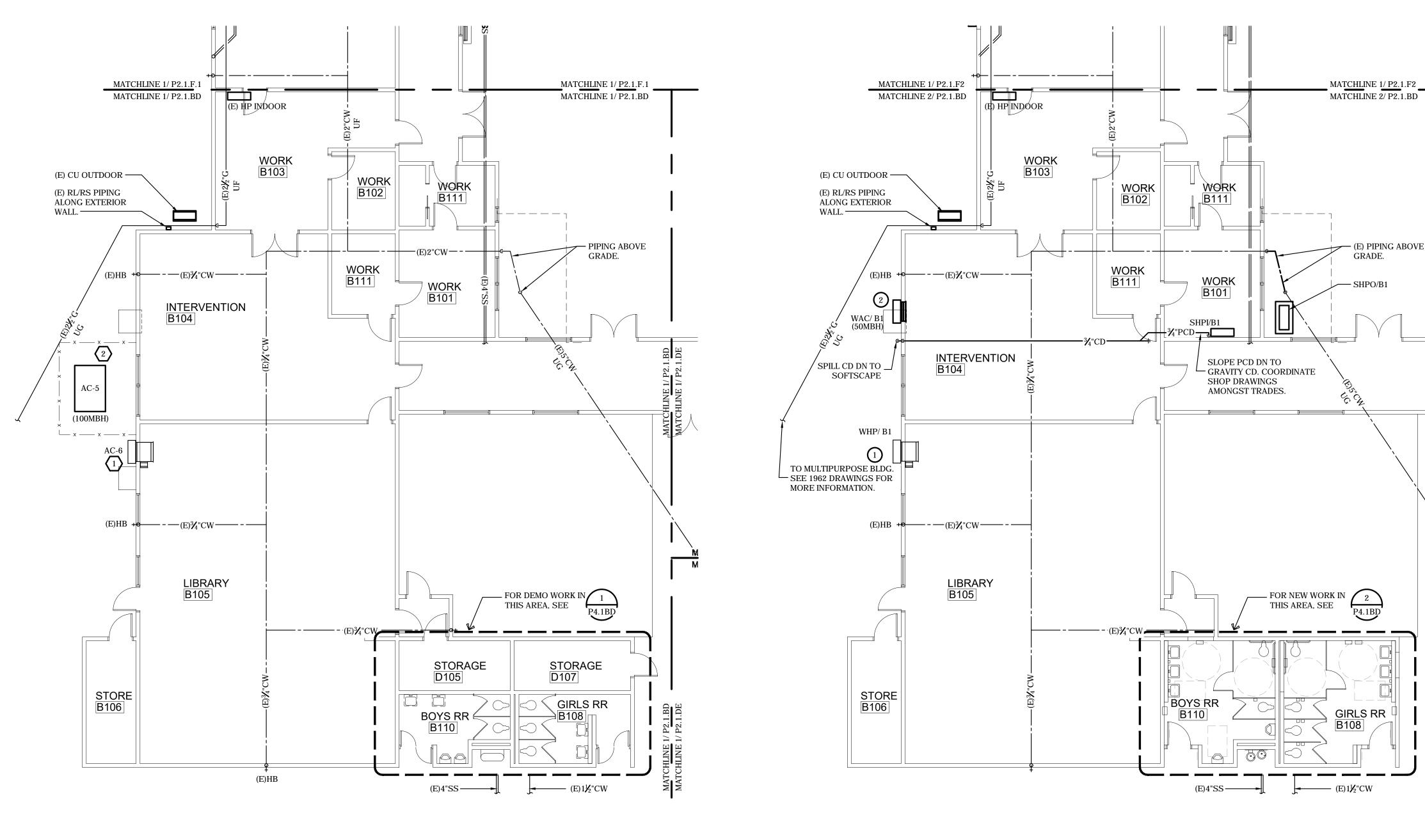


SCALE : 1" = 30'-0"











DEMOLITION KEYNOTES

- 1 DISCONNECT THE CONDENSATE PIPING AT THE UNIT. PROVIDE TEMPORARY CAP AND PREPARE SERVICES FOR RECONNECTION TO NEW WALL HUNG EQUIPMENT.
- 2 DISCONNECT & CAP GAS PIPING AT THE BRANCH TAKE OFF AND PREPARE FOR RECONNECTION TO NEW UNIT. DISCONNECT AND REMOVE ALL CONDENSATE PIPING AND SUPPORTS. PREPARE AREA FOR NEW CD LINE.



PLUMBING FLOOR PLAN - BUILDING BD SCALE : 1/8" = 1'-0"

P2.1.BD

CONSTRUCTION KEYNOTES:

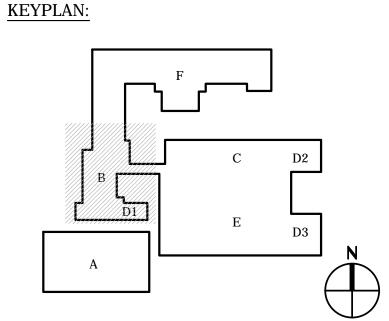
- (1) CONNECT AND RUN FULL SIZE CONDENSATE FROM UNIT AND OFFSET CONDENSATE TO SPILL OVER NON-HARDSCAPE AREA WITH AIR GAP. COORDINATE POC AMONGST TRADES PRIOR TO ANY INSTALLATION.
- (2) CONNECT AND RUN FULL SIZE CONDENSATE FROM UNIT AND OFFSET CONDENSATE TO SPILL OVER NON-HARDSCAPE AREA WITH AIR GAP. CONNECT FULL SIZE GAS WITH NEW GSOV AND DIRT LEG TO WALL HUNG EQUIPMENT. COORDINATE POC AMONGST TRADES PRIOR TO ANY INSTALLATION.

DEMOLITION SHEET NOTES

- 1. EXISTING PLUMBING LAYOUT BASED FROM AVAILABLE RECORD DRAWINGS OF UNKNOWN ACCURACY. EXISTING PIPING ESPECIALLY THOSE CONCEALED AND/OR UNDERGROUND MAY HAVE BEEN INSTALLED DIFFERENTLY THAN SHOWN HEREWITH. CONTRACTOR SHALL INVESTIGATE EXISTING PIPE ROUTE, ELEVATION, SIZE AND CONDITION, THRU VISUAL OBSERVATIONS, POT-HOLING, RADAR INSPECTION OR OTHER MEANS NECESSARY, PRIOR TO ANY NEW PIPE INSTALLATION. REFLECT ALL FINDINGS ON SHOP DRAWINGS FOR COORDINATION AMONGST TRADES. REFLECT EXISTING ROUTE, ELEVATION AND OTHER OBSERVATIONS ON AS-BUILT DRAWING IF DIFFERENT FROM SHOWN HEREWITH.
- 2. UNLESS NOTED OTHERWISE, CONTRACTOR SHALL REMOVE ALL INACTIVE PLUMBING PIPING ENCOUNTERED/VISIBLE WITHIN WORK AREA. CAP BEHIND ARCHITECTURAL FINISHES. REFLECT CAP ON AS-BUILT DRAWINGS.
- 3. CONTRACTOR SHALL REFLECT EXISTING AND/OR ABANDONED PIPING ON THE AS-BUILT DRAWINGS IF FOUND DIFFERENTLY FROM DESIGN PLANS FOR OWNER'S REFERENCE AND RECORD KEEPING.
- 4. PATCH ALL UNUSED ROOF PENETRATIONS TO MATCH EXISTING.
- 5. PROVIDE SLAB DEMOLITION WORK AS NECESSARY TO REMOVE, REPLACE, REROUTE OR ADD UNDERGROUND PIPING. EXACT LENGTH AND WIDTH OF TRENCH SHALL BE DETERMINED BY CONTRACTOR AS PART OF MEANS AND METHOD. PATCH BACK TO MATCH SURROUNDING FLOOR/PAVEMENT PER STRUCTURAL PLANS AND/OR DETAILS.

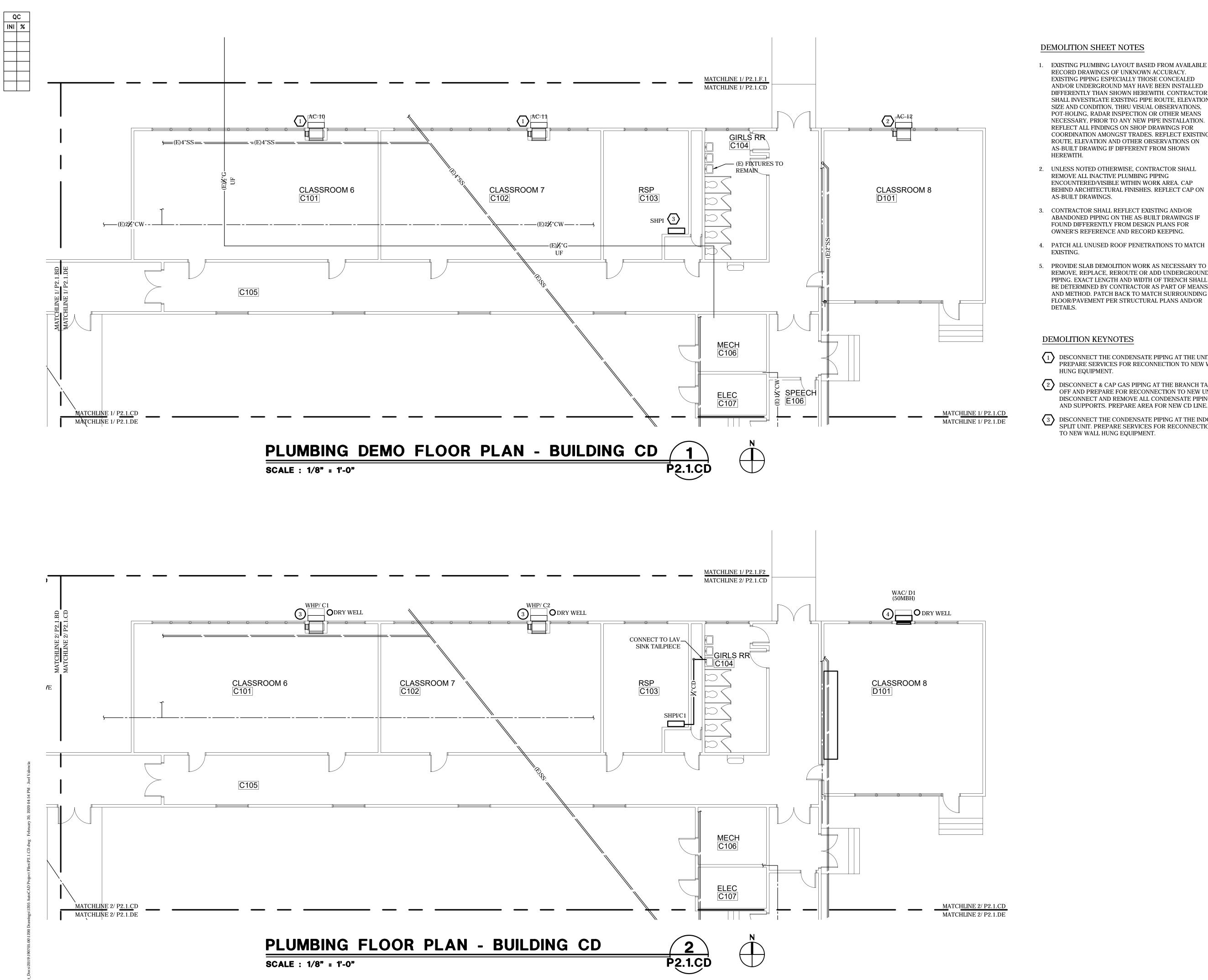
CONSTRUCTION SHEET NOTES

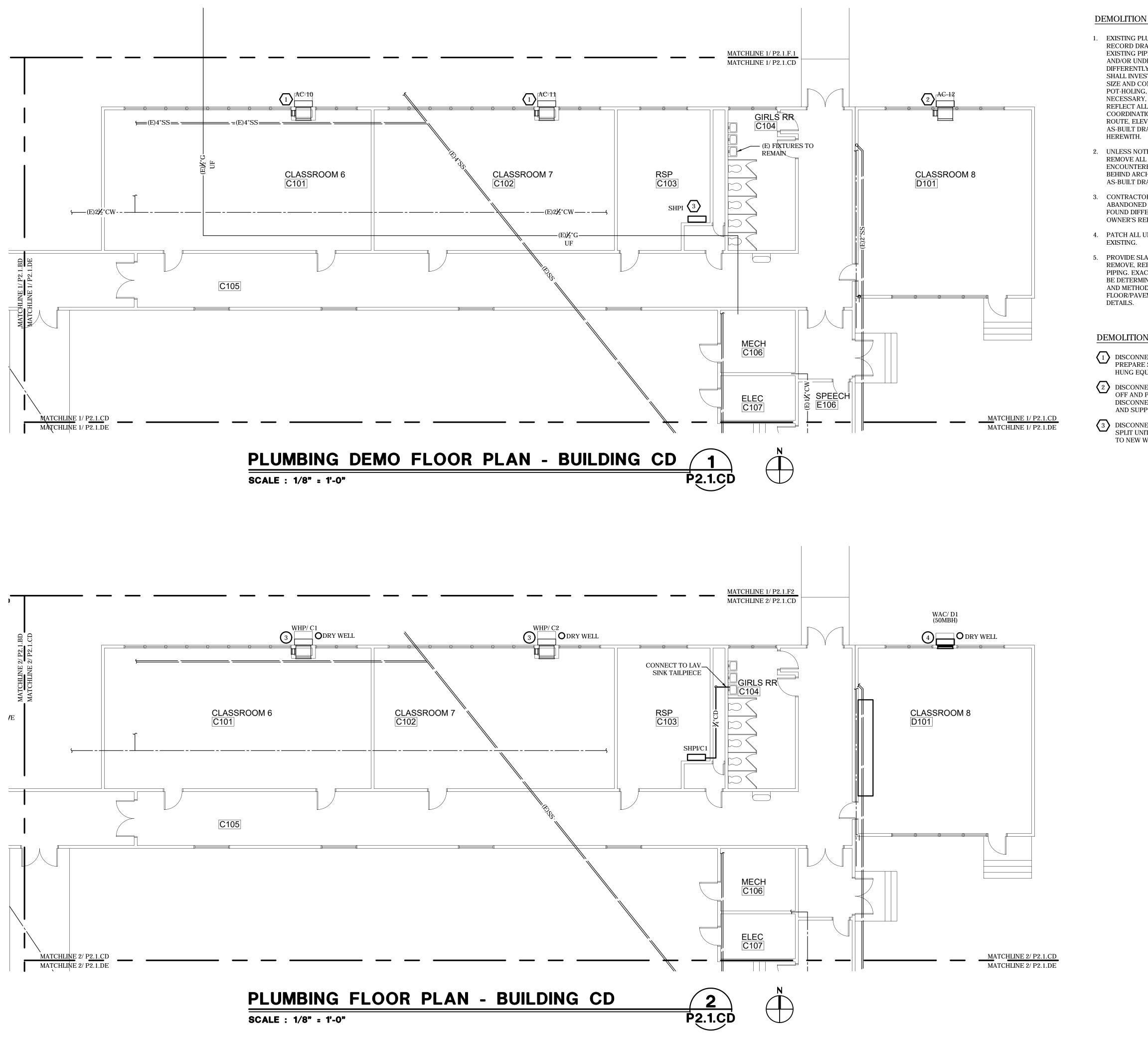
- 1. ALL FINISH FLOOR ELEVATIONS (FF) BASED FROM CIVIL GRADING DRAWINGS. PLEASE REFER TO CIVIL DRAWINGS FOR MORE INFORMATION. BFF VALUES ARE ALL BASED FROM FINISH FLOOR ELEVATION INSIDE BUILDING. COORDINATE EXACT ELEVATIONS THRU SHOP DRAWINGS AND AT SITE.
- 2. CONNECT WASTE, VENT & COLD WATER LINES TO ALL NEW FIXTURES. SEE FIXTURE SCHEDULE FOR BRANCH AND FIXTURE OUTLET/INLET CONNECTION SIZES.
- 3. HORIZONTAL DRAINAGE PIPING SHALL BE RUN IN PRACTICAL ALIGNMENT AND A UNIFORM SLOPE OF NOT LESS THAN 2% TOWARD THE POINT OF DISPOSAL UNLESS IMPRACTICAL DUE TO BUILDING'S STRUCTURAL FEATURES, OR IF CONNECTING TO EXISTING PIPE AT ITS EXISTING UPSTREAM/DOWNSTREAM DEPTH IS IMPOSSIBLE WITHOUT SLOPING LESS THAN 2%. IN SUCH CONDITIONS, PIPE CAN BE SLOPED AT NO LESS THAN 1%. COORDINATE AMONGST TRADES AND REFLECT ALL CHANGES ON THE AS-BUILT DRAWINGS.
- 4. ADJUST ALL PIPE ELEVATIONS IF NECESSARY. COORDINATE BETWEEN TRADES AT SITE THROUGH SHOP DRAWINGS.
- 5. CONTRACTOR SHALL PROVIDE OWNER WITH AS-BUILT DRAWINGS OF ALL PLUMBING SYSTEMS AS INSTALLED IN THE JOB SITE. AS-BUILT DRAWINGS SHALL INCLUDE BUT NOT LIMITED TO: UNDERGROUND PIPE ELEVATIONS PIPE SIZES, AND ANY INFORMATION THAT MAY CLARIFY HOW THE SYSTEMS HAD BEEN INSTALLED. AS-BUILT DRAWINGS SHALL BE IN HARD COPY AND DIGITAL (PDF) FORMAT.
- 6. SEE PREVIOUS AS-BUILT DRAWINGS FOR CONTINUATION OF EXISTING PLUMBING UTILITIES OUTSIDE OF THIS PROJECT'S SCOPE FOR REFERENCE.
- 7. SEE GEOTECH REPORT FOR TRENCHING REQUIREMENTS, GROUND WATER ELEVATION, PIPE CORROSION AND OTHER SOILS INFORMATION.
- 8. SLOPE ALL PUMPED CONDENSATE DRAIN LINES (PCD) DOWN TOWARDS GRAVITY CD.
- 9. PROVIDE TEMPORARY UTILITIES TO ALL FIXTURES TO REMAIN IN SERVICE DURING CONSTRUCTION PERIOD. COORDINATE ALL SERVICE INTERRUPTIONS WITH SCHOOL DISTRICT.





730 Howe Avenue, Suite 450 Sacramento, CA 95825 Phone: 916.921.2112 Fax: 916.921.2212				
ARCHITECT	ARCHITECTS ARCHITECTS			
MODERNIZATION HOUSTON SCHOOL	PLUMBING FLOOR PLAN BUILDINGS B & D			
CONSULTANT CAP ENGINEERING C RANCHO CORDOVA, MCM - RL/JSV PM - DESIGN TEA	190705.00			
PROJECT NO. 19-32-2019 DATE 02/11/2020 DRAWN RL CHECKED TD SCALE AS NOTED CADFILE - UPDATED 02/18/2020 SHEET NO.	REVISIONS BY Image: Second s			
	1.BD			





1. EXISTING PLUMBING LAYOUT BASED FROM AVAILABLE RECORD DRAWINGS OF UNKNOWN ACCURACY. EXISTING PIPING ESPECIALLY THOSE CONCEALED AND/OR UNDERGROUND MAY HAVE BEEN INSTALLED DIFFERENTLY THAN SHOWN HEREWITH. CONTRACTOR SHALL INVESTIGATE EXISTING PIPE ROUTE, ELEVATION, SIZE AND CONDITION, THRU VISUAL OBSERVATIONS, POT-HOLING, RADAR INSPECTION OR OTHER MEANS NECESSARY, PRIOR TO ANY NEW PIPE INSTALLATION. REFLECT ALL FINDINGS ON SHOP DRAWINGS FOR COORDINATION AMONGST TRADES. REFLECT EXISTING ROUTE, ELEVATION AND OTHER OBSERVATIONS ON AS-BUILT DRAWING IF DIFFERENT FROM SHOWN

2. UNLESS NOTED OTHERWISE, CONTRACTOR SHALL REMOVE ALL INACTIVE PLUMBING PIPING ENCOUNTERED/VISIBLE WITHIN WORK AREA. CAP BEHIND ARCHITECTURAL FINISHES. REFLECT CAP ON

3. CONTRACTOR SHALL REFLECT EXISTING AND/OR ABANDONED PIPING ON THE AS-BUILT DRAWINGS IF FOUND DIFFERENTLY FROM DESIGN PLANS FOR OWNER'S REFERENCE AND RECORD KEEPING.

5. PROVIDE SLAB DEMOLITION WORK AS NECESSARY TO REMOVE, REPLACE, REROUTE OR ADD UNDERGROUND PIPING. EXACT LENGTH AND WIDTH OF TRENCH SHALL BE DETERMINED BY CONTRACTOR AS PART OF MEANS AND METHOD. PATCH BACK TO MATCH SURROUNDING FLOOR/PAVEMENT PER STRUCTURAL PLANS AND/OR

DISCONNECT THE CONDENSATE PIPING AT THE UNIT. PREPARE SERVICES FOR RECONNECTION TO NEW WALL 8. SLOPE ALL PUMPED CONDENSATE DRAIN LINES (PCD)

2 DISCONNECT & CAP GAS PIPING AT THE BRANCH TAKE OFF AND PREPARE FOR RECONNECTION TO NEW UNIT. DISCONNECT AND REMOVE ALL CONDENSATE PIPING AND SUPPORTS. PREPARE AREA FOR NEW CD LINE.

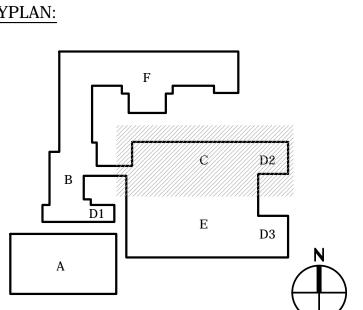
3 DISCONNECT THE CONDENSATE PIPING AT THE INDOOR SPLIT UNIT. PREPARE SERVICES FOR RECONNECTION TO NEW WALL HUNG EQUIPMENT.

CONSTRUCTION SHEET NOTES

- ALL FINISH FLOOR ELEVATIONS (FF) BASED FROM CIVIL GRADING DRAWINGS. PLEASE REFER TO CIVIL DRAWINGS FOR MORE INFORMATION. BFF VALUES ARE ALL BASED FROM FINISH FLOOR ELEVATION INSIDE BUILDING. COORDINATE EXACT ELEVATIONS THRU SHOP DRAWINGS AND AT SITE.
- CONNECT WASTE, VENT & COLD WATER LINES TO ALL NEW FIXTURES. SEE FIXTURE SCHEDULE FOR BRANCH AND FIXTURE OUTLET/INLET CONNECTION SIZES.
- HORIZONTAL DRAINAGE PIPING SHALL BE RUN IN PRACTICAL ALIGNMENT AND A UNIFORM SLOPE OF NOT LESS THAN 2% TOWARD THE POINT OF DISPOSAL UNLESS IMPRACTICAL DUE TO BUILDING'S STRUCTURAL FEATURES, OR IF CONNECTING TO EXISTING PIPE AT ITS EXISTING UPSTREAM/DOWNSTREAM DEPTH IS IMPOSSIBLE WITHOUT SLOPING LESS THAN 2%. IN SUCH CONDITIONS, PIPE CAN BE SLOPED AT NO LESS THAN 1%. COORDINATE AMONGST TRADES AND REFLECT ALL CHANGES ON THE AS-BUILT DRAWINGS.
- 4. ADJUST ALL PIPE ELEVATIONS IF NECESSARY. COORDINATE BETWEEN TRADES AT SITE THROUGH SHOP DRAWINGS.
- CONTRACTOR SHALL PROVIDE OWNER WITH AS-BUILT DRAWINGS OF ALL PLUMBING SYSTEMS AS INSTALLED IN THE JOB SITE. AS-BUILT DRAWINGS SHALL INCLUDE BUT NOT LIMITED TO: UNDERGROUND PIPE ELEVATIONS PIPE SIZES, AND ANY INFORMATION THAT MAY CLARIFY HOW THE SYSTEMS HAD BEEN INSTALLED. AS-BUILT DRAWINGS SHALL BE IN HARD COPY AND DIGITAL (PDF) FORMAT.
- SEE PREVIOUS AS-BUILT DRAWINGS FOR CONTINUATION OF EXISTING PLUMBING UTILITIES OUTSIDE OF THIS PROJECT'S SCOPE FOR REFERENCE.
- 7. SEE GEOTECH REPORT FOR TRENCHING REQUIREMENTS, GROUND WATER ELEVATION, PIPE CORROSION AND OTHER SOILS INFORMATION.
- DOWN TOWARDS GRAVITY CD.
- PROVIDE TEMPORARY UTILITIES TO ALL FIXTURES TO REMAIN IN SERVICE DURING CONSTRUCTION PERIOD. COORDINATE ALL SERVICE INTERRUPTIONS WITH SCHOOL DISTRICT.

CONSTRUCTION KEYNOTES:

- CONNECT AND RUN FULL SIZE CONDENSATE FROM UNIT AND OFFSET CONDENSATE TO SPILL DN WITHIN DRY WELL. SEE DETAIL SEE 1/P5.1. LOCATE DRY WELL CLEAR FROM EXISTING FOOTING. COORDINATE POC AMONGST TRADES PRIOR TO ANY INSTALLATION.
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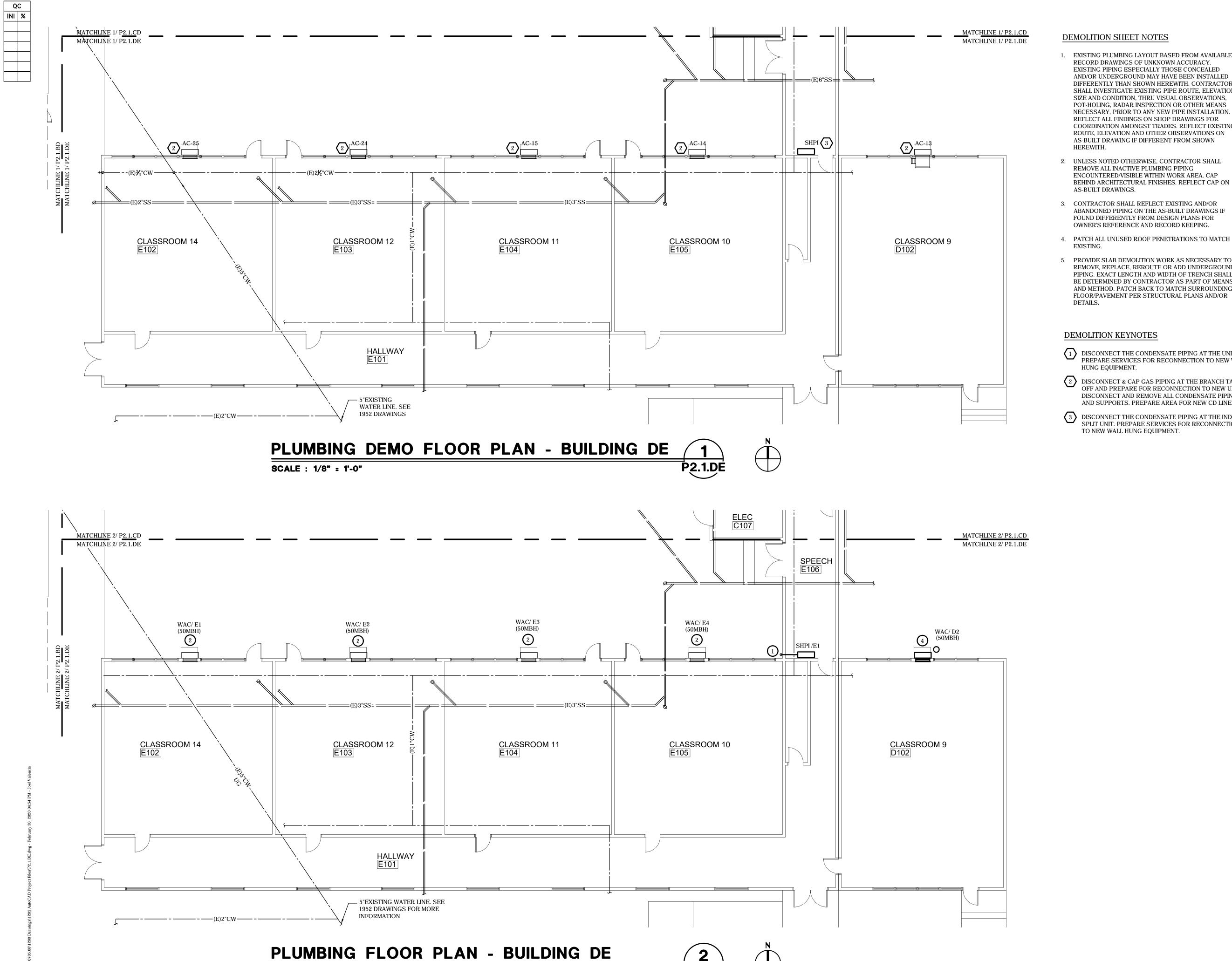


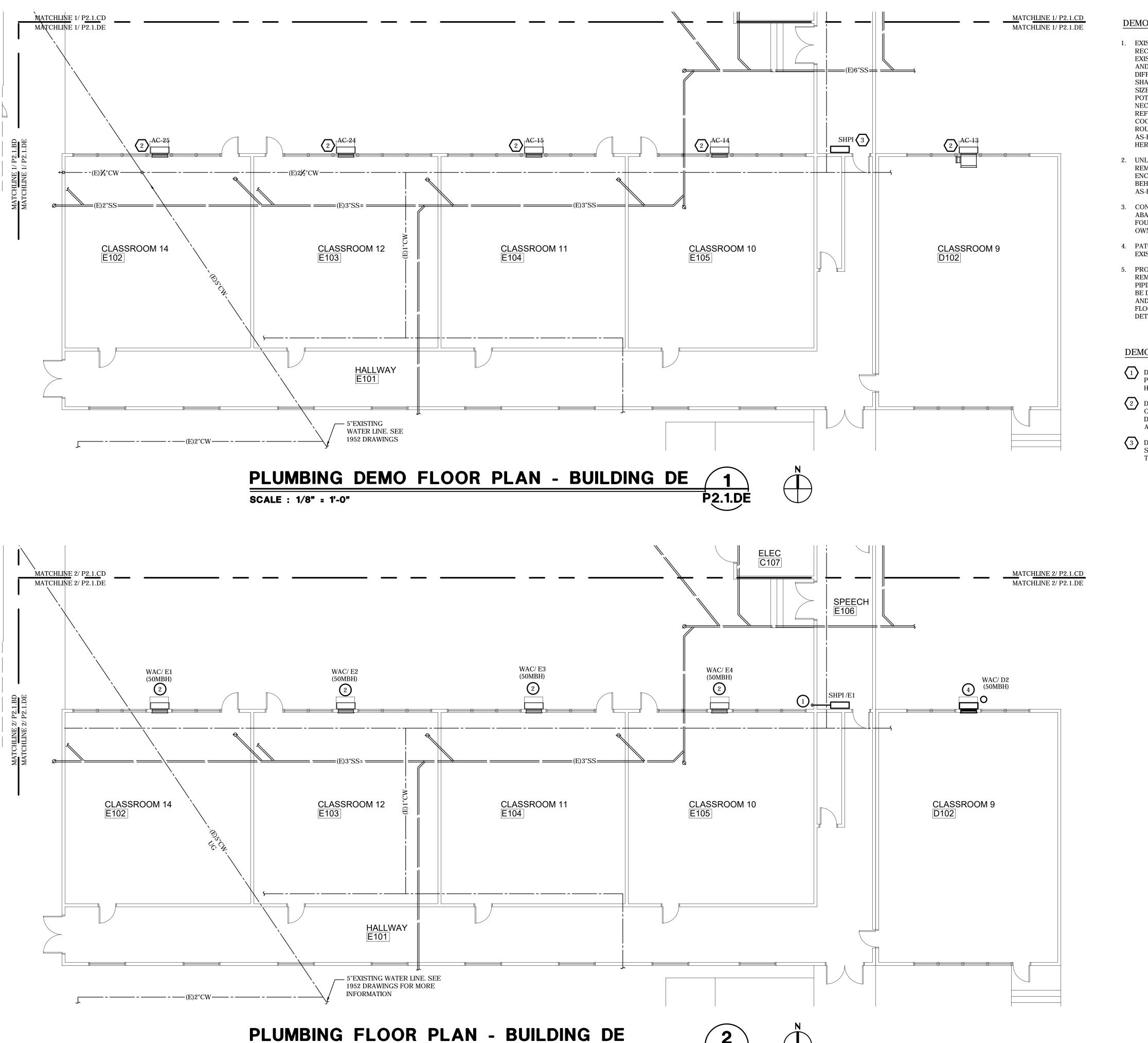




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SHEET NO.			
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KEYPLAN:





P2.1.DE

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

DEMOLITION SHEET NOTES

1. EXISTING PLUMBING LAYOUT BASED FROM AVAILABLE RECORD DRAWINGS OF UNKNOWN ACCURACY. EXISTING PIPING ESPECIALLY THOSE CONCEALED AND/OR UNDERGROUND MAY HAVE BEEN INSTALLED DIFFERENTLY THAN SHOWN HEREWITH. CONTRACTOR SHALL INVESTIGATE EXISTING PIPE ROUTE, ELEVATION, SIZE AND CONDITION, THRU VISUAL OBSERVATIONS, POT-HOLING, RADAR INSPECTION OR OTHER MEANS NECESSARY, PRIOR TO ANY NEW PIPE INSTALLATION. REFLECT ALL FINDINGS ON SHOP DRAWINGS FOR COORDINATION AMONGST TRADES. REFLECT EXISTING ROUTE, ELEVATION AND OTHER OBSERVATIONS ON AS-BUILT DRAWING IF DIFFERENT FROM SHOWN

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DEMOLITION KEYNOTES

1 DISCONNECT THE CONDENSATE PIPING AT THE UNIT. HUNG EQUIPMENT.

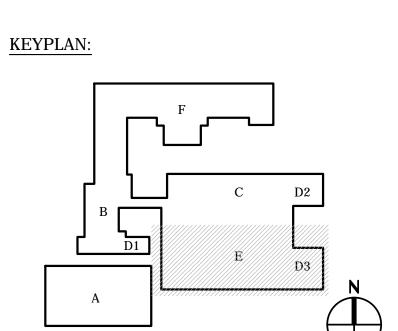
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- PREPARE SERVICES FOR RECONNECTION TO NEW WALL 8. SLOPE ALL PUMPED CONDENSATE DRAIN LINES (PCD) DOWN TOWARDS GRAVITY CD.
 - PROVIDE TEMPORARY UTILITIES TO ALL FIXTURES TO REMAIN IN SERVICE DURING CONSTRUCTION PERIOD. COORDINATE ALL SERVICE INTERRUPTIONS WITH SCHOOL DISTRICT.

CONSTRUCTION KEYNOTES:

- CONNECT AND RUN FULL SIZE CONDENSATE FROM UNIT AND OFFSET CONDENSATE TO SPILL OVER NON-HARDSCAPE AREA WITH AIR GAP. COORDINATE POC AMONGST TRADES PRIOR TO ANY INSTALLATION.
- CONNECT AND RUN FULL SIZE CONDENSATE FROM UNIT AND OFFSET CONDENSATE TO SPILL OVER NON-HARDSCAPE AREA WITH AIR GAP. CONNECT FULL SIZE GAS WITH NEW GSOV AND DIRT LEG TO WALL HUNG EQUIPMENT. COORDINATE POC AMONGST TRADES PRIOR TO ANY INSTALLATION.
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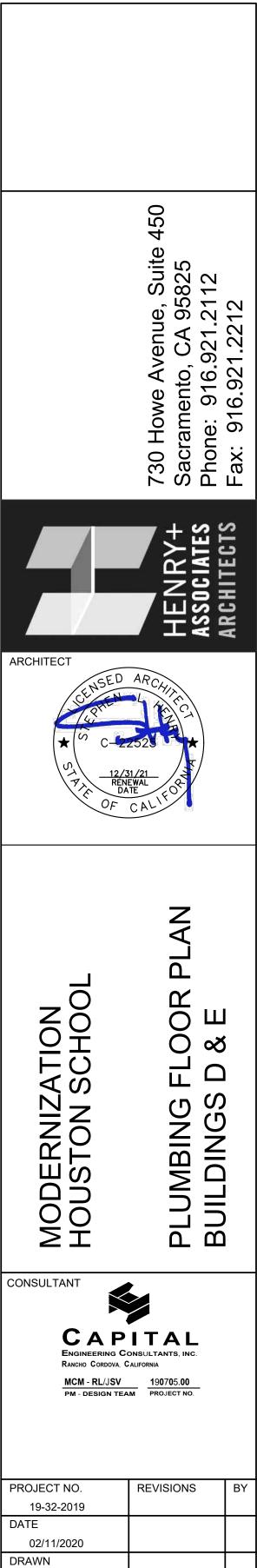
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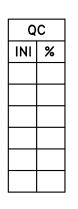
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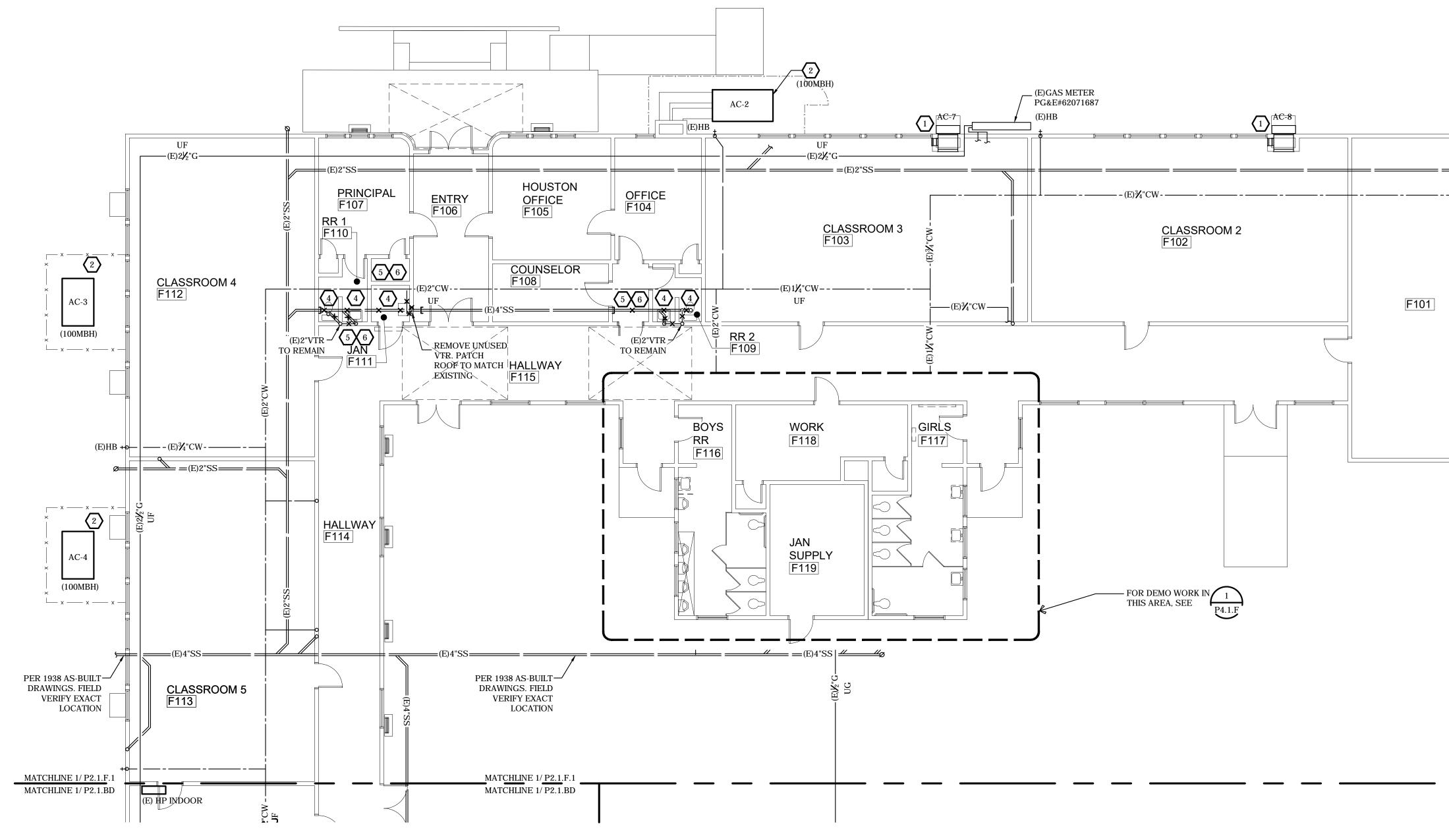
02/18/2020 SHEET NO.

P2.1.DE



OF XX SHEET





PLUMBING DEMO FLOOR PLAN - BUILDING F \bigcirc **P**2.1.F. SCALE : 1/8" = 1'-0"

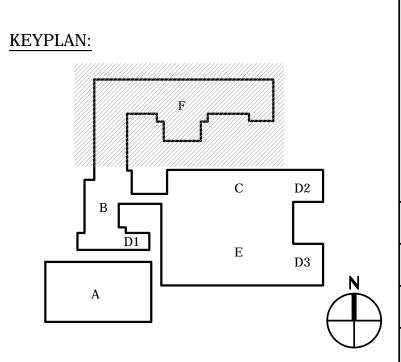
DEMOLITION SHEET NOTES

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- 4. PATCH ALL UNUSED ROOF PENETRATIONS TO MATCH EXISTING.
- PROVIDE SLAB DEMOLITION WORK AS NECESSARY TO REMOVE, REPLACE, REROUTE OR ADD UNDERGROUND PIPING. EXACT LENGTH AND WIDTH OF TRENCH SHALL BE DETERMINED BY CONTRACTOR AS PART OF MEANS AND METHOD. PATCH BACK TO MATCH SURROUNDING FLOOR/PAVEMENT PER STRUCTURAL PLANS AND/OR DETAILS.

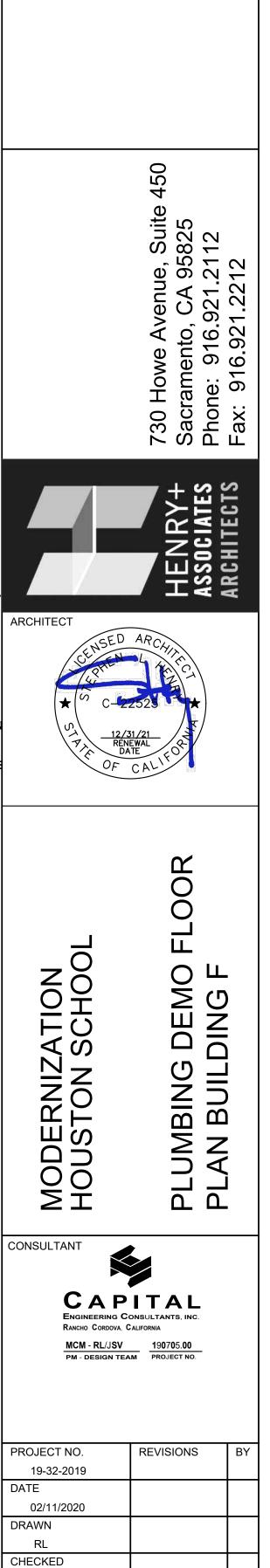
DEMOLITION KEYNOTES

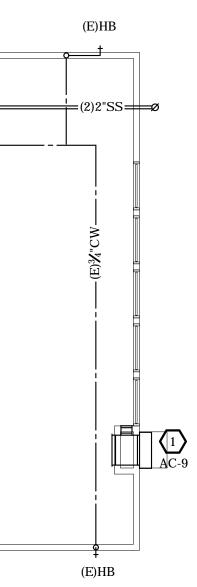
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- 2 DISCONNECT & CAP GAS PIPING AT THE BRANCH TAKE OFF AND PREPARE FOR RECONNECTION TO NEW UNIT. DISCONNECT AND REMOVE ALL CONDENSATE PIPING AND SUPPORTS. PREPARE AREA FOR NEW CD LINE.
- 4 DISCONNECT PIPING FROM FIXTURES AND CAP PIPING BEHIND ARCHITECTURAL SURFACES UNLESS NOTED OR SHOWN OTHERWISE. PREPARE AREA FOR INSTALLATION OF NEW FIXTURES.
- 5 FIELD VERIFY EXACT SIZE & LOCATION OF EXISTING PIP AND REFLECT ON AS-BUILT DRAWINGS. USE EXACT LOCATION OBSERVED ON SHOP DRAWINGS. PREPARE FOR CONNECTION TO NEW PIPE.
- 6 VERIFY EXACT LOCATION OF ALL BUILDING COMPONENTS OR ANY OBJECT IN GENERAL THAT MAY OBSTRUCT PATH OF NEW PIPING. REFLECT VERIFIED INFORMATION ON SHOP DRAWINGS FOR COORDINATION AMONGST TRADES PRIOR TO ANY PIPE INSTALLATION. REROUTE PIPING IF REQUIRED, REFLECT ON AS-BUILT DRAWINGS IF DIFFERENT FROM HEREWITH

MATCHLINE 1/ P2.1.F.1 MATCHLINE 1/ P2.1.CD









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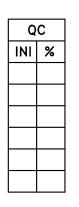
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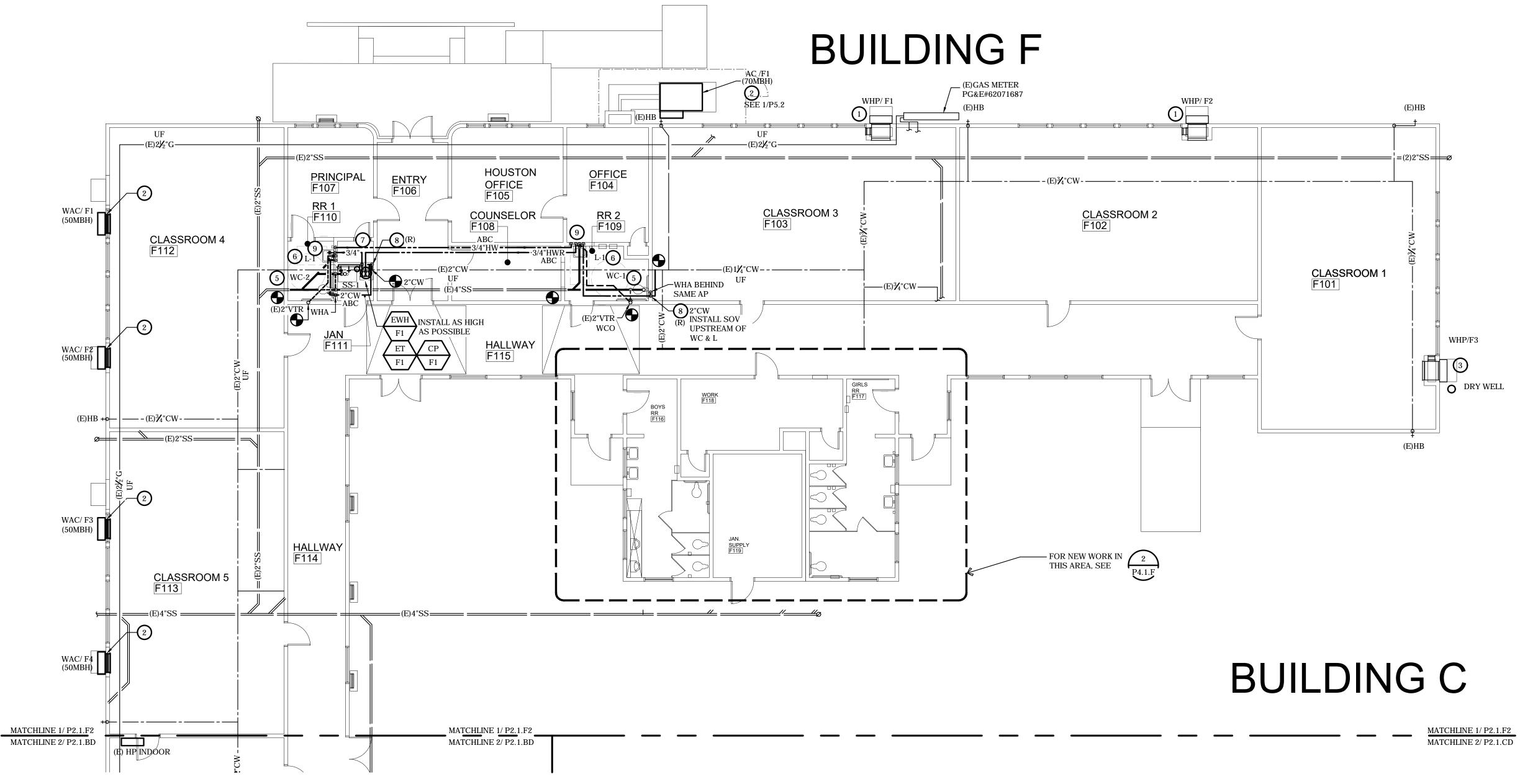
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AS NOTED

02/18/2020 SHEET NO.

P2.1.F.1





PLUMBING FLOOR PLAN - BUILDING F

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

P2.1.F,

CONSTRUCTION SHEET NOTES 1. ALL FINISH FLOOR ELEVATIONS (FF) BASED FROM CIVIL GRADING DRAWINGS. PLEASE REFER TO CIVIL DRAWINGS FOR MORE INFORMATION. BFF VALUES ARE ALL BASED FROM FINISH FLOOR ELEVATION INSIDE BUILDING. COORDINATE EXACT ELEVATIONS THRU SHOP DRAWINGS AND AT SITE.

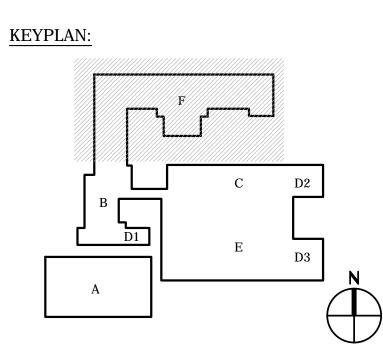
- 2. CONNECT WASTE, VENT & COLD WATER LINES TO ALL NEW FIXTURES. SEE FIXTURE SCHEDULE FOR BRANCH AND FIXTURE OUTLET/INLET CONNECTION SIZES.
- 3. HORIZONTAL DRAINAGE PIPING SHALL BE RUN IN PRACTICAL ALIGNMENT AND A UNIFORM SLOPE OF NOT LESS THAN 2% TOWARD THE POINT OF DISPOSAL UNLESS IMPRACTICAL DUE TO BUILDING'S STRUCTURAL FEATURES, OR IF CONNECTING TO EXISTING PIPE AT ITS EXISTING UPSTREAM/DOWNSTREAM DEPTH IS IMPOSSIBLE WITHOUT SLOPING LESS THAN 2%. IN SUCH CONDITIONS, PIPE CAN BE SLOPED AT NO LESS THAN 1%. COORDINATE AMONGST TRADES AND REFLECT ALL CHANGES ON THE AS-BUILT DRAWINGS.
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- 6. SEE PREVIOUS AS-BUILT DRAWINGS FOR CONTINUATION OF EXISTING PLUMBING UTILITIES OUTSIDE OF THIS PROJECT'S SCOPE FOR REFERENCE.
- SEE GEOTECH REPORT FOR TRENCHING REQUIREMENTS, GROUND WATER ELEVATION, PIPE CORROSION AND OTHER SOILS INFORMATION.
- 8. SLOPE ALL PUMPED CONDENSATE DRAIN LINES (PCD) DOWN TOWARDS GRAVITY CD.
- 9. PROVIDE TEMPORARY UTILITIES TO ALL FIXTURES TO REMAIN IN SERVICE DURING CONSTRUCTION PERIOD. COORDINATE ALL SERVICE INTERRUPTIONS WITH SCHOOL DISTRICT.

CONSTRUCTION KEYNOTES:

- (1) CONNECT AND RUN FULL SIZE CONDENSATE FROM UNIT AND OFFSET CONDENSATE TO SPILL OVER NON-HARDSCAPE AREA WITH AIR GAP. COORDINATE POC AMONGST TRADES PRIOR TO ANY INSTALLATION.
- (2) CONNECT AND RUN FULL SIZE CONDENSATE FROM UNIT AND OFFSET CONDENSATE TO SPILL OVER NON-HARDSCAPE AREA WITH AIR GAP. CONNECT FULL SIZE GAS WITH NEW GSOV AND DIRT LEG TO WALL HUN EQUIPMENT. COORDINATE POC AMONGST TRADES PRIOR TO ANY INSTALLATION.
- 3 CONNECT AND RUN FULL SIZE CONDENSATE FROM UNI AND OFFSET CONDENSATE TO SPILL DN WITHIN DRY WELL. SEE DETAIL SEE 1/P5.1. LOCATE DRY WELL CLEA FROM EXISTING FOOTING. COORDINATE POC AMONGST TRADES PRIOR TO ANY INSTALLATION.
- 5 ADJUST WASTE CONNECTION BELOW FLOOR TO ACCOMMODATE THE NEW WATER CLOSET. CONNECT THE WASTE, VENT AND CW TO NEW FIXTURE.
- CONFIGURE WASTE, VENT, CW & HW PIPE ROUTE TO (6) ACCOMMODATE THE NEW LAV SINK.
- ADJUST WASTE CONNECTION BELOW FLOOR TO ACCOMMODATE THE NEW MOP SINK CONFIGURATION. (7) CONNECT THE WASTE, VENT AND CW TO NEW FIXTURE AND NEW VALVE.

PROVIDE 2"CW SOV BEHIND AP.

8 HW TO LOOP DOWN THEN UP WITHIN WALL. SEE DETAIL 2/P5.2. 9

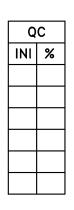


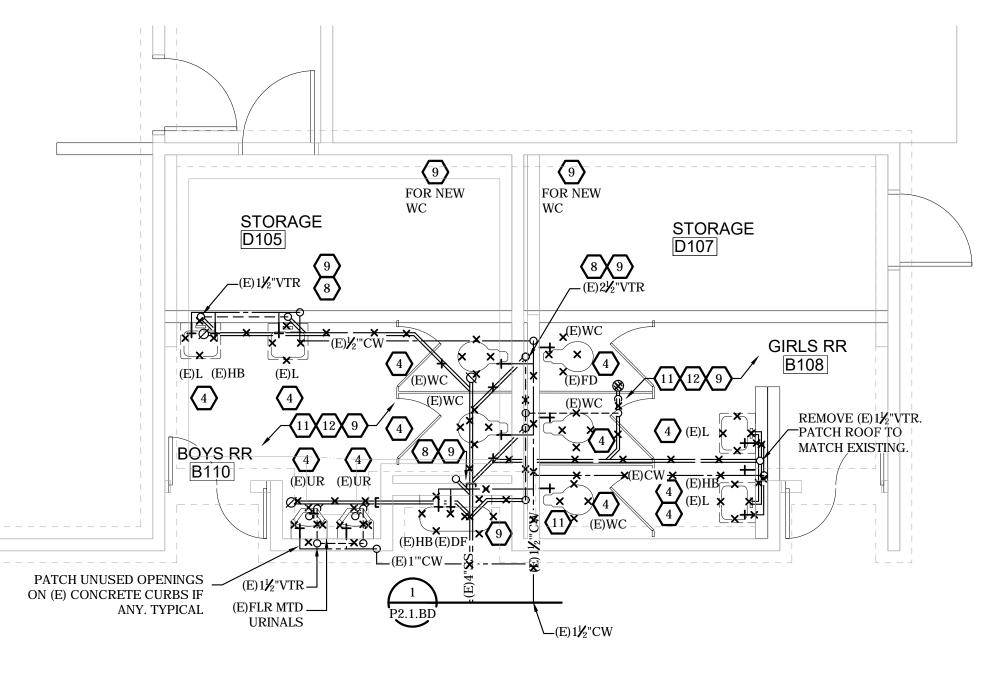


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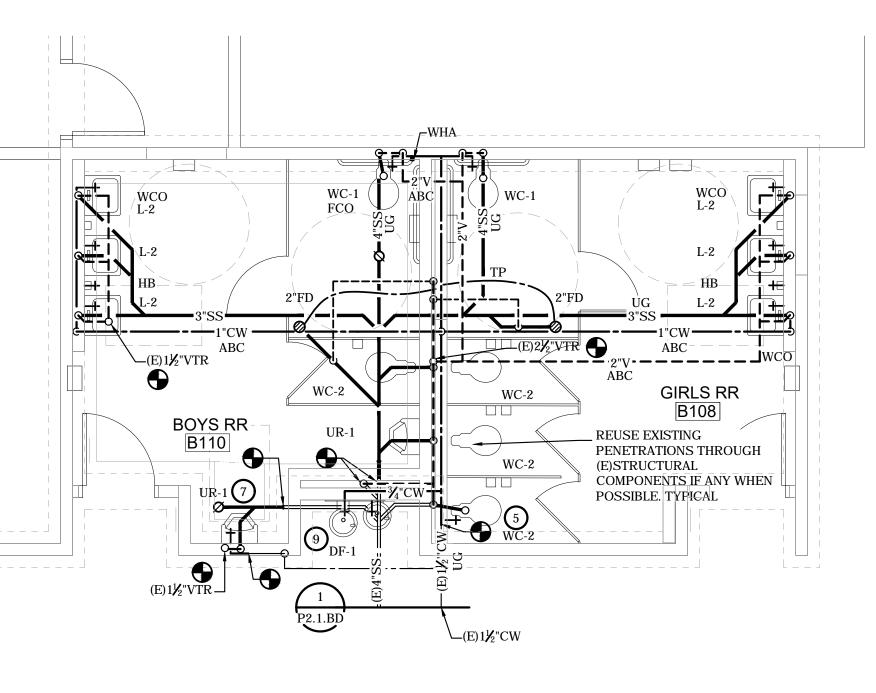
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OF XX SHEET











DEMO SHEET NOTES:

- AS-BUILT DRAWINGS.
- EXISTING.

DEMOLITION KEYNOTES

- PIPE.
- HEREWITH. TYPICAL.

TYPICAL.

RECORD DRAWINGS OF UNKNOWN ACCURACY. EXISTING PIPING ESPECIALLY THOSE CONCEALED AND/OR UNDERGROUND MAY HAVE BEEN INSTALLED DIFFERENTLY THAN SHOWN HEREWITH. CONTRACTOR SHALL INVESTIGATE EXISTING PIPE ROUTE, ELEVATION, SIZE AND CONDITION, THRU VISUAL OBSERVATIONS, POT-HOLING, RADAR INSPECTION OR OTHER MEANS NECESSARY, PRIOR TO ANY NEW PIPE INSTALLATION. REFLECT ALL FINDINGS ON SHOP DRAWINGS FOR COORDINATION AMONGST TRADES.

REFLECT EXISTING ROUTE, ELEVATION AND OTHER **OBSERVATIONS ON AS-BUILT DRAWING IF DIFFERENT** FROM SHOWN HEREWITH. 2. UNLESS NOTED OTHERWISE, CONTRACTOR SHALL

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49 VERIFY EXACT LOCATION OF ALL BUILDING COMPONENTS OR ANY OBJECT IN GENERAL THAT MAY OBSTRUCT PATH OF NEW PIPING. REFLECT VERIFIED INFORMATION ON SHOP DRAWINGS FOR COORDINATION AMONGST TRADES PRIOR TO ANY PIPE INSTALLATION. REROUTE PIPING IF REQUIRED, **REFLECT ON AS-BUILT DRAWINGS IF DIFFERENT FROM**

(11) CLEAN AND FLUSH ALL EXISTING SEWER LINES DOWNSTREAM OF NEW FIXTURES.

(12) REMOVE ALL EXPOSED UNUSED ABOVE GROUND UTILITIES WITHIN WORK AREA. CAP ALL UNUSED PIPING BEHIND OR BELOW ARCHITECTURAL FINISHES. REFLECT CAPPED PIPING ON AS-BUILT DRAWINGS.

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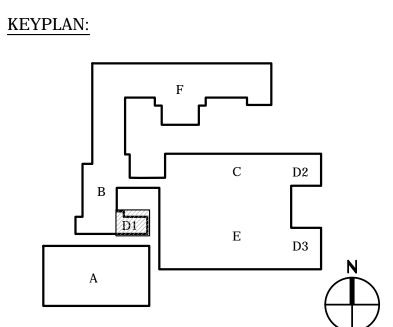
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- SEE GEOTECH REPORT FOR TRENCHING REQUIREMENTS, GROUND WATER ELEVATION, PIPE CORROSION AND OTHER SOILS INFORMATION.
- SLOPE ALL PUMPED CONDENSATE DRAIN LINES (PCD) DOWN TOWARDS GRAVITY CD.

10. PROVIDE TEMPORARY UTILITIES TO ALL FIXTURES TO REMAIN IN SERVICE DURING CONSTRUCTION PERIOD. COORDINATE ALL SERVICE INTERRUPTIONS WITH SCHOOL DISTRICT.

CONSTRUCTION KEYNOTES:

- ADJUST WASTE CONNECTION BELOW FLOOR TO (5)ACCOMMODATE THE NEW WATER CLOSET CONFIGURATION. CONNECT THE WASTE, VENT AND CW TO NEW FIXTURE AND NEW VALVE.
- 7 ADJUST AND CONNECT THE WASTE, VENT, CW CONNECTIONS TO ACCOMMODATE THE NEW UR CONFIGURATION.

(9) ADJUST AND CONNECT THE WASTE & VENT, CONNECTIONS TO ACCOMMODATE THE NEW DF CONFIGURATION.





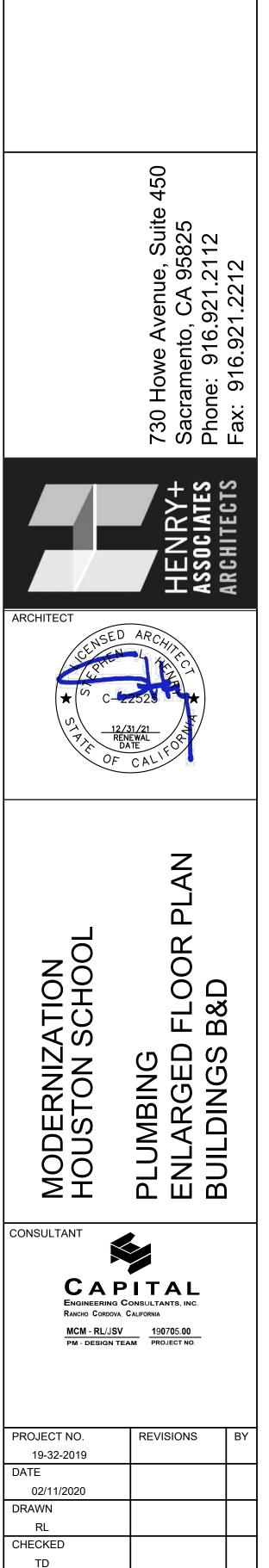
SCALE

CADFILE

UPDATED

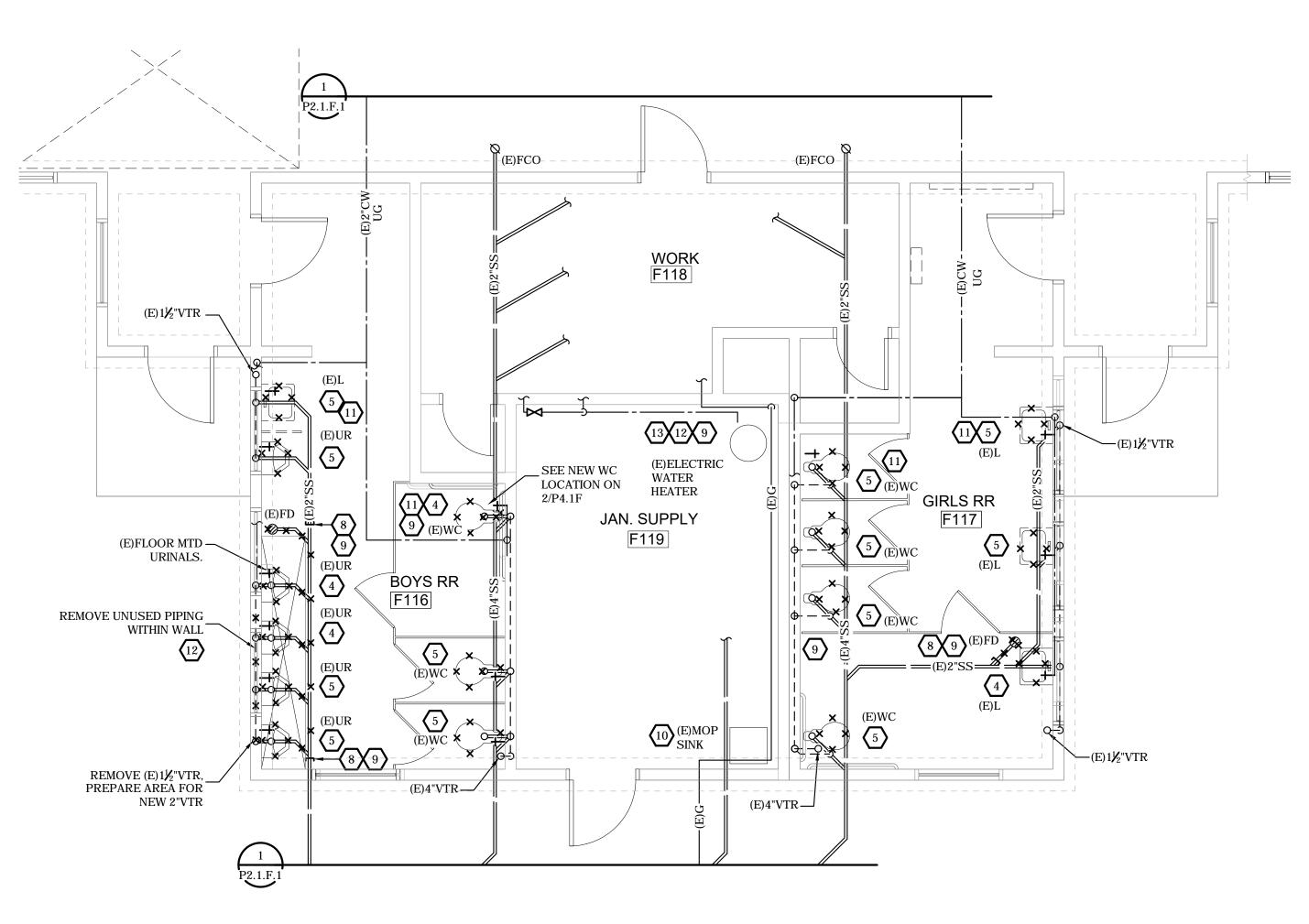
AS NOTED

02/18/2020 SHEET NO.

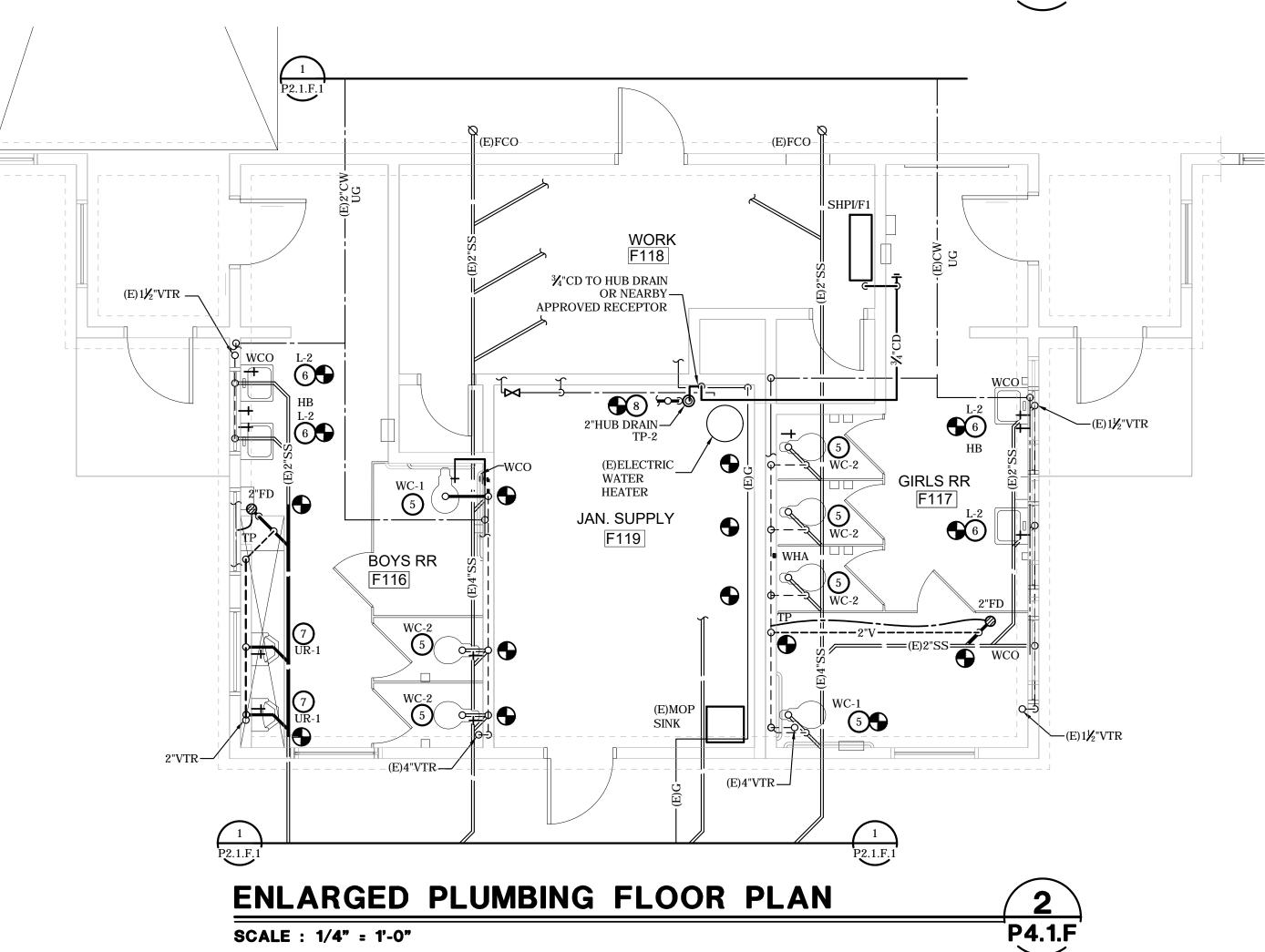


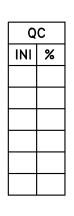
OF XX SHEET

P4.1.BD



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





DEMO SHEET NOTES:

•	EXISTING P
	RECORD DE
	EXISTING P
	AND/OR UN
	DIFFERENT
	SHALL INVE
	ELEVATION
	OBSERVAT
	OTHER MEA
	INSTALLATI
	DRAWINGS
	REFLECT E
	OBSERVAT
	FROM SHO

REMOVE ALL INACTIVE PLUMBING PIPING ENCOUNTERED/VISIBLE WITHIN WORK AREA. CAP BEHIND ARCHITECTURAL FINISHES. REFLECT CAP ON AS-BUILT DRAWINGS.

3. CONTRACTOR SHALL REFLECT EXISTING AND/OR ABANDONED PIPING ON THE AS-BUILT DRAWINGS IF FOUND DIFFERENTLY FROM DESIGN PLANS FOR OWNER'S REFERENCE AND RECORD KEEPING.

EXISTING.

5. PROVIDE SLAB DEMOLITION WORK AS NECESSARY TO REMOVE, REPLACE, REROUTE OR ADD UNDERGROUND PIPING. PATCH BACK TO MATCH SURROUNDING FLOOR/PAVEMENT PER STRUCTURAL PLANS AND/OR DETAILS.

DEMOLITION KEYNOTES

(8) PROVIDE TEMPORARY CAP ON EXISTING PIPE. FIELD VERIFY EXACT LOCATION AND REFLECT ON AS-BUILT DRAWINGS. USE EXACT LOCATION OBSERVED ON SHOP DRAWINGS. PREPARE FOR CONNECTION TO NEW PIPE.

(9) VERIFY EXACT LOCATION OF ALL BUILDING COMPONENTS OR ANY OBJECT IN GENERAL THAT MAY OBSTRUCT PATH OF NEW PIPING. REFLECT VERIFIED INFORMATION ON SHOP DRAWINGS FOR COORDINATION AMONGST TRADES PRIOR TO ANY PIPE INSTALLATION. REROUTE PIPING IF REQUIRED, REFLECT ON AS-BUILT DRAWINGS IF DIFFERENT FROM HEREWITH. TYPICAL.

(10) PROTECT FIXTURE TO REMAIN IN PLACE DURING DEMO/CONSTRUCTION WORK. PROVIDE TEMPORARY UTILITIES WHEN NEEDED. COORDINATE SERVICE INTERRUPTIONS WITH SCHOOL DISTRICT.

(12) REMOVE ALL EXPOSED UNUSED ABOVE GROUND TILITIES WITHIN WORK AREA. CAP ALL UNUSED PIPING BEHIND OR BELOW ARCHITECTURAL FINISHES. REFLECT CAPPED PIPING ON AS-BUILT DRAWINGS. TYPICAL.



1. EXISTING PLUMBING LAYOUT BASED FROM AVAILABLE RAWINGS OF UNKNOWN ACCURACY. PIPING ESPECIALLY THOSE CONCEALED NDERGROUND MAY HAVE BEEN INSTALLED TLY THAN SHOWN HEREWITH. CONTRACTOR ESTIGATE EXISTING PIPE ROUTE, , SIZE AND CONDITION, THRU VISUAL IONS, POT-HOLING, RADAR INSPECTION OR ANS NECESSARY, PRIOR TO ANY NEW PIPE ION. REFLECT ALL FINDINGS ON SHOP 5 FOR COORDINATION AMONGST TRADES.

EXISTING ROUTE, ELEVATION AND OTHER FIONS ON AS-BUILT DRAWING IF DIFFERENT OWN HEREWITH. 2. UNLESS NOTED OTHERWISE, CONTRACTOR SHALL

4. PATCH ALL UNUSED ROOF PENETRATIONS TO MATCH

4 DISCONNECT PIPING FROM FIXTURES AND CAP PIPING BEHIND ARCHITECTURAL SURFACES.

(5) DISCONNECT PIPING FROM FIXTURES AND PREPARE FOR RECONNECTION TO PIPING SERVICES.

(7) DISCONNECT GAS PIPING AT THE BRANCH TAKE OFF AND PREPARE FOR RECONNECTION. DISCONNECT AND REMOVE ALL CONDENSATE PIPING AND SUPPORTS.

(11) CLEAN AND FLUSH ALL EXISTING SEWER LINES DOWNSTREAM OF NEW FIXTURES.

(13) PREPARE AREA FOR CONNECTION TO NEW HUB DRAIN. REROUTE EXISTING ACTIVE PIPING IF NECESSARY.

CONSTRUCTION SHEET NOTES

- ALL FINISH FLOOR ELEVATIONS (FF) BASED FROM CIVIL GRADING DRAWINGS. PLEASE REFER TO CIVIL DRAWINGS FOR MORE INFORMATION. BFF VALUES ARE ALL BASED FROM FINISH FLOOR ELEVATION INSIDE BUILDING. COORDINATE EXACT ELEVATIONS THRU SHOP DRAWINGS AND AT SITE.
- CONNECT WASTE, VENT & COLD WATER LINES TO ALL NEW FIXTURES. SEE FIXTURE SCHEDULE FOR BRANCH AND FIXTURE OUTLET/INLET CONNECTION SIZES.

HORIZONTAL DRAINAGE PIPING SHALL BE RUN IN PRACTICAL ALIGNMENT AND A UNIFORM SLOPE OF NOT LESS THAN 2% TOWARD THE POINT OF DISPOSAL UNLESS IMPRACTICAL DUE TO BUILDING'S STRUCTURAL FEATURES, OR IF CONNECTING TO EXISTING PIPE AT ITS EXISTING UPSTREAM/DOWNSTREAM DEPTH IS IMPOSSIBLE WITHOUT SLOPING LESS THAN 2%. IN SUCH CONDITIONS, PIPE CAN BE SLOPED AT NO LESS THAN 1%. COORDINATE AMONGST TRADES AND REFLECT ALL CHANGES ON THE AS-BUILT DRAWINGS.

EXISTING PLUMBING LAYOUT BASED FROM AVAILABLE RECORD DRAWINGS OF UNKNOWN ACCURACY. EXISTING PIPING ESPECIALLY THOSE CONCEALED AND/OR UNDERGROUND MAY HAVE BEEN INSTALLED DIFFERENTLY THAN SHOWN HEREWITH. CONTRACTOR SHALL INVESTIGATE EXISTING PIPE ROUTE, ELEVATION, SIZE AND CONDITION, THRU VISUAL OBSERVATIONS, POT-HOLING, RADAR INSPECTION OR OTHER MEANS NECESSARY, PRIOR TO ANY NEW PIPE INSTALLATION. REFLECT ALL FINDINGS ON SHOP DRAWINGS FOR COORDINATION AMONGST TRADES. REFLECT EXISTING ROUTE, ELEVATION AND OTHER OBSERVATIONS ON AS-BUILT DRAWING IF DIFFERENT FROM SHOWN HEREWITH.

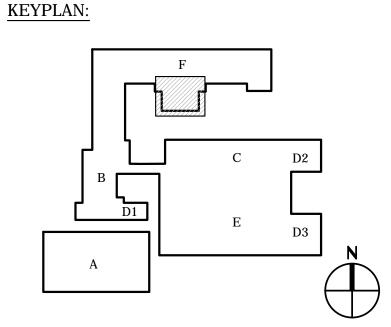
5. ADJUST ALL PIPE ELEVATIONS IF NECESSARY. COORDINATE BETWEEN TRADES AT SITE THROUGH SHOP DRAWINGS.

CONTRACTOR SHALL PROVIDE OWNER WITH AS-BUILT DRAWINGS OF ALL PLUMBING SYSTEMS AS INSTALLED IN THE JOB SITE. AS-BUILT DRAWINGS SHALL INCLUDE BUT NOT LIMITED TO: UNDERGROUND PIPE ELEVATIONS PIPE SIZES, AND ANY INFORMATION THAT MAY CLARIFY HOW THE SYSTEMS HAD BEEN INSTALLED. AS-BUILT DRAWINGS SHALL BE IN HARD COPY AND DIGITAL (PDF) FORMAT.

- SEE PREVIOUS AS-BUILT DRAWINGS FOR CONTINUATION OF EXISTING PLUMBING UTILITIES OUTSIDE OF THIS PROJECT'S SCOPE FOR REFERENCE.
- SEE GEOTECH REPORT FOR TRENCHING REQUIREMENTS, GROUND WATER ELEVATION, PIPE CORROSION AND OTHER SOILS INFORMATION.
- SLOPE ALL PUMPED CONDENSATE DRAIN LINES (PCD) DOWN TOWARDS GRAVITY CD.
- 10. PROVIDE TEMPORARY UTILITIES TO ALL FIXTURES TO REMAIN IN SERVICE DURING CONSTRUCTION PERIOD. COORDINATE ALL SERVICE INTERRUPTIONS WITH SCHOOL DISTRICT.

CONSTRUCTION KEYNOTES:

- (5) ADJUST WASTE CONNECTION BELOW FLOOR TO ACCOMMODATE THE NEW WATER CLOSET CONFIGURATION. CONNECT & ADJUST THE WASTE, VENT AND CW TO NEW FIXTURE AND NEW VALVE.
- (6) ADJUST AND CONNECT THE WASTE, VENT, CW CONNECTIONS TO ACCOMMODATE THE NEW LAV CONFIGURATION.
- (7) ADJUST AND CONNECT THE WASTE, VENT, CW CONNECTIONS TO ACCOMMODATE THE NEW UR CONFIGURATION. SEE DETAIL 5/P5.1.
- 8 CONNECT TO EXISTING SEWER, VENT & CW LINE.





UPDATED

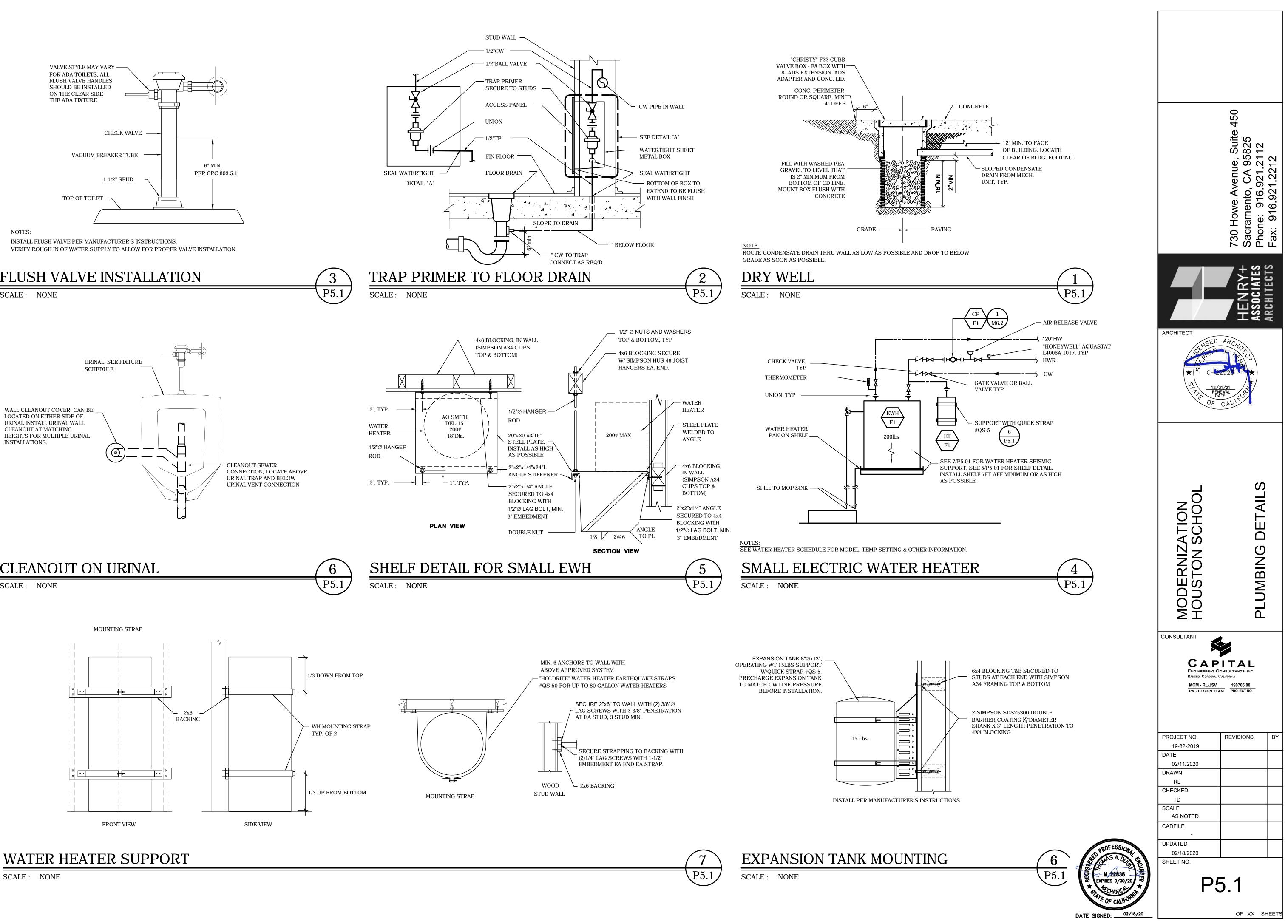
02/18/2020 SHEET NO.

P4.1.F

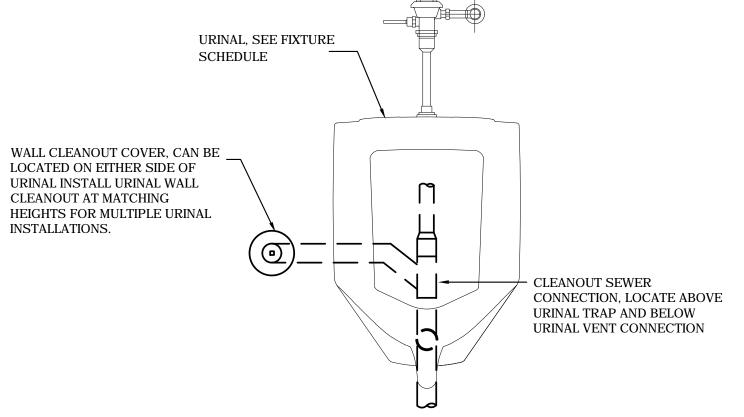
50 4 730 Howe Avenue, Suite 4 Sacramento, CA 95825 Phone: 916.921.2112 Fax: 916.921.2212 HE ASS(ARC) ARCHITECT Ω MODERNIZATION HOUSTON SCHOOL Ο \bigcirc LL PLUMBING ENLARGED BUILDING F CONSULTANT CAPITAL ENGINEERING CONSULTANTS, INC. RANCHO CORDOVA, CALIFORNIA
 MCM - RL/JSV
 190705.00

 PM - DESIGN TEAM
 PROJECT NO.
 PROJECT NO. REVISIONS 19-32-2019 DATE 02/11/2020 DRAWN RI CHECKED TD SCALE AS NOTED CADFILE

DATE SIGNED: 02/18/20

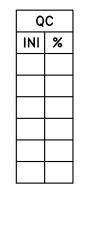








NOTES:



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QC				
INI	%			

A UNION OR FLANGED CONNECTOR SHALL BE PROVIDED DOWNSTREAM FROM THE VALVE TO PERFORM REMOVAL OF APPLIANCE CONTROLS. CPC 1212.5

LINE SIZE GAS SHUT-OFF VALVE. PROVIDE LINE SIZE X 6" LONG DIRT LEG WITH REMOVABLE GASTIGHT CAP DOWNSTREAM OF SHUT OFF VALVE BEFORE THE FLEX CONNECTOR OR UNION. SEE ALSO CPC 1212.8

> PROVIDE 3"MIN CLEARANCE – BELOW DIRT LET

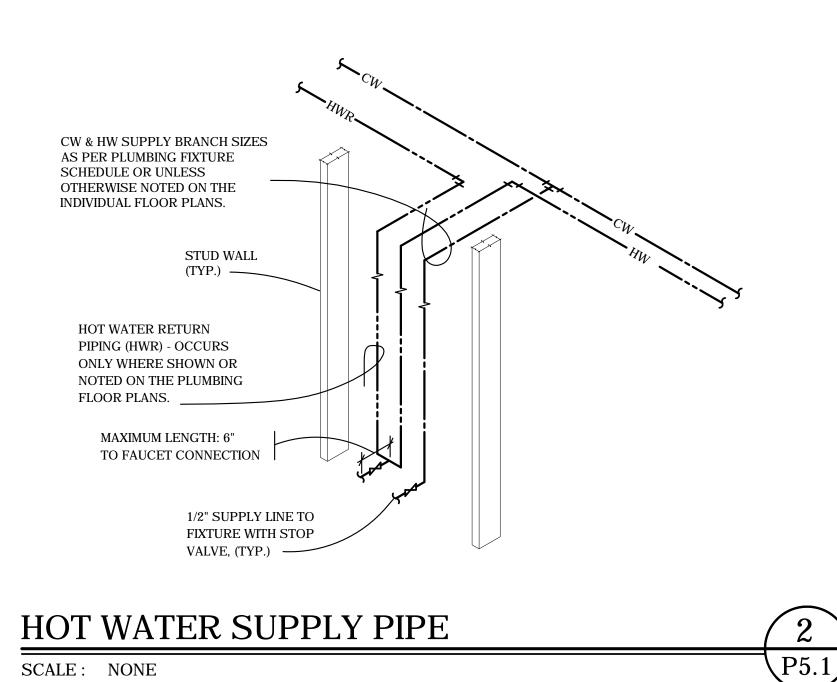
> > CONNECT TO ____ CONDENSATE DRAIN PAN ON UNIT

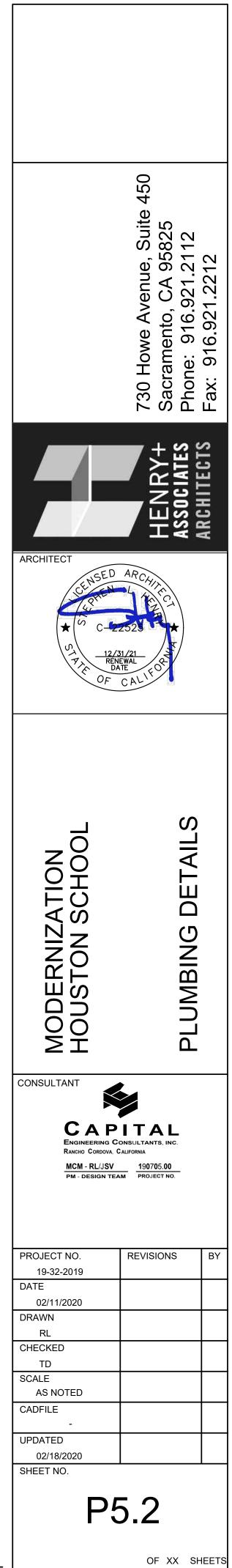
1/8"PINHOLE ON ____ REMOVABLE VENT CAP

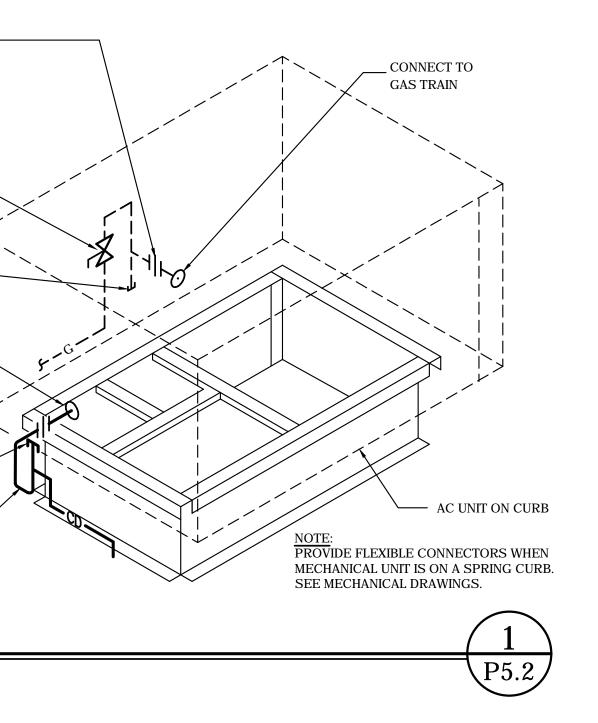
4" DEEP MINIMUM P-TRAP. _ SEE AC UNIT INSTALLATION INSTRUCTIONS.



SCALE : NONE









ABBREVIATIONS

		ABBREVI	ATIONS				ELECTRICAL	SYMI	BOL	LIST
A			MAX. MAXIMUM			0	EMERGENCY LUMINAIRE - CEILING SURFACE MOUNTED, SEE NOTE 5.			
AC A.F.F.			MDF MAIN DIST	RIBUTION FRAME		Ю	EMERGENCY LUMINAIRE - EXTERIOR WALL MOUNTED, SEE NOTE 5.	F/\$	15	FIRE/SM MECHAN
AWG			N NEUTRAL			0	EMERGENCY LUMINAIRE - CEILING RECESSED, SEE NOTE 5.	CN	Μ	FIRE AL
BKR	BREAKER		(N) NEW			4	BATTERY PACK EMERGENCY LIGHT FIXTURE - WALL MOUNTED, SEE NOTE 5.	M	Μ	FIRE AL
C.					N	$\stackrel{>}{\bigotimes}$	EXIT LUMINAIRE - REFER TO PLAN FOR MOUNTING. ARROW SIGNIFIES DIRECTION, ONE	TS	S	FIRE RIS
CKT.B			N.I.C. NOT IN CO	NTRACT			SHADING = SINGLE FACE, TWO SHADINGS = DOUBLE FACE, SEE NOTE 5.	FS	S	FIRE RIS
СКТ	CIRCUIT			IS FOR FUTURE CIRCU			ENCLOSED LUMINAIRE - SURFACE MOUNTED ENCLOSED LUMINAIRE - CEILING LAY-IN		 DL]~~	END OF
C.O.	CONDUIT ONLY, WITH	PULL WIRE	(R) REMOVE				ENCLOSED LUMINAIRE - CEILING LAY-IN	FAC		MASTER
(E)	EXISTING		(RE) RELOCATE	EXISTING		\mathcal{O}	ENCLOSED LUMINAIRE - CEILING RECESSED	FAF		REMOTI
EM			RCPT. RECEPTAC	LE		A	LUMINAIRE DESIGNATION WITH LAMP QUANTITY AND WATTAGE. SEE LUMINAIRE SCHEDULE.			FIRE AL
(ER) EMT						2/32				
(F)	FUTURE			ARD		\$ ^{<i>a</i>}	SINGLE POLE TOGGLE SWITCH, +45" TO TOP OF BOX - "a" LETTER DENOTES SWITCH			SPEAKE
FACP	FIRE ALARM CONTROL	PANEL	TYP. TYPICAL			\$ĸ	FUNCTION, TYPICAL FOR ALL SWITCHES UNLESS NOTED OTHERWISE SINGLE POLE TOGGLE SWITCH - KEYED			SPEAKE
FAPS		UPPLY	UG UNDERGRO	DNUC						EXTERI HEIGHT
GA.				ITERS LABORATORY		\$ ₃	THREE-WAY TOGGLE SWITCH	d d	5	CLOCK
GND GFI						\$	DIMMER SWITCH	L I	Ĺ	
HP HVAC	HORSEPOWER		W WATT			\$	OCCUPANCY SENSOR SWITCH WITH MANUAL OVERRIDE - WALL MOUNTED AT +45" TOP OF BOX UNLESS NOTED OTHERWISE	///•	/←───	CONDU QUANTI WIRES.
	CONDITIONING					\$	OCCUPANCY AREA SENSOR SWITCH			DENOTE CONDU
LTG.	LIGHT						SPACE LIGHTING CONTROLLER - MOUNTED IN ACCESSIBLE CEILING AREA, UNLESS NOTED OTHERWISE		\frown	FLEXIBL CURVE
L	ALTERNATING CURRENT MDF MADE ABOVE FINISHED FLOOR MMR MINIMUM AMERICAN WITE GAUGE N NEW CONDUT NEM MANUACITAL FERTRICAL BREAKER NLC NOT IN CONTRACT COMDUT FIRE MONELA COMDUT FIRE PROVIDENCISTOR CORDUT FIRE PROVIDENCISTOR CONDUT FIRE PROVIDENCISTOR CONDUT FIRE PROVIDENCISTOR CONDUT FIRE PROVIDENCISTOR CONDUT FIRE PROVIDENCISTOR EXISTING RELOCATED S.N.S. SHEET METAL SCREW ELECTRICAL MELALLIC CONDUT SWBD SWTCHBOARD FUTURE EVENT YP YPICAL GROUND FAULT CIRCUT INTERRUPTER YP YV YOLT CROUND FAULT CIRCUT INTERRUPTER YP YPICAL (2) CONDITING EDSCRIPTION DESCRIPTION MOUNTING REMARK CONDITING EDSCRIPTION DESCRIPTION MOUNTING (2) CONDITING YP YPICAL (2) (2) CONDITING EDSCRIPTION DESCRIPTION MOUNTING (2) CONDITING EDSCRIPTION DESC		J	JUNCTION BOX - SIZE AS REQUIRED BY CODE			OTHER GREEN			
			SCHEDULE			Þ	DUPLEX CONVENIENCE OUTLET - NEMA 5-20R +18" BOTTOM OF BOX. TYPICAL FOR ALL CONVENIENCE OUTLETS, UNLESS NOTED OTHERWISE (LETTER "A" SHOWN ADJACENT TO OUTLET DESIGNATES MOUNTED HORIZONTALLY ABOVE COUNTER).			CONDUI
						⊯	QUADPLEX CONVENIENCE OUTLET - NEMA 5-20R			
TYPE				── MOUNTING I .			FLOOR MOUNTED DUPLEX CONVENIENCE OUTLET - NEMA 5-20R			CONDU
							CEILING MOUNTED DUPLEX RECEPTACLE	×		
A			IT LED, 4 WATTS,	I-BAR		Ш Ю	SPECIAL RECEPTACLE AS SHOWN ON PLANS			OWNER
В			LED, 2 WATTS,		\bigcirc		PLUG-IN STRIP - LENGTH AS SHOWN ON PLAN			PANELB
	DUAL LITE									PANELB
C	PG-x	EXTERIOR EM LIGH	T LED, 2.8 WATTS			\mathbf{v}	IN-FLOOR MULTI-SERVICE BOX WITH FLUSH ACCESSIBLE LID, 2 DUPLEX RECEPTACLES (POWER), TELEPHONE AND DATA OUTLETS. REFER TO PLAN FOR SPECIFIC REQUIREMENTS.			EXISTIN
							TELEPHONE OUTLET - FLUSH IN WALL +18" BOTTOM OF BOX. STUB ONE 3/4" CONDUIT WITH			EXISTIN
	CERTOLUX	120 VOLT					BUSHING AT THE END AND PULL ROPE INTO ACCESSIBLE CEILING AREA.			TERMIN
DD		RESTROOM, STOR		SURFACE			COMBINATION TELE/DATA OUTLET FLUSH IN WALL +18" BOTTOM OF BOX, 4-11/16" SQUARE BOX, 2-1/8" DEEP WITH 2 DEVICE RING AND PLATE (TOP HALF DEVICE FOR TELEPHONE,			SWITCH
							BOTTOM HALF DEVICE FOR DATA). STUB ONE 1" CONDUIT WITH BUSHING AT THE END OF			EQUIPM MATCH
							CONDUIT AND A PULL ROPE INTO ACCESSIBLE CEILING AREA. DATA OUTLET - FLUSH IN WALL +18" BOTTOM OF BOX. NUMBER IN PARENTHESIS INDICATES	4		EQUIPM
X			LED, 3.8 WATTS		2 3	⊲ ₍₂₎	NUMBER OF DATA JACKS. STUB ONE 1" CONDUIT WITH BUSHING AT THE END AND PULL ROPE INTO ACCESSIBLE CEILING AREA.		3	EQUIPM
LUM	NAIRE SCHEDULE REM	ARK NOTES:					FIRE ALARM MANUAL PULL STATION, +45" TOP OF BOX. UNLESS NOTED OTHERWISE (ALPHA-NUMBERIC SUBSCRIPT DENOTES LOOP AND DEVICE NUMBER - TYPICAL FOR ALL FIRE		\rightarrow	MECHA
	INISH SELECTION BY ARCH	IITECT.					ALARM DEVICES) FIRE ALARM HEAT DETECTOR - CEILING MOUNTED. THE DEFAULT TYPE IS "FIXED		<u> </u>	
(2) I	/INIMUM 90 MINUTES BATTE	ERY OPERATION. PRO	VIDE WITH SELF TESTIN	NG OPTION.			TEMPERATURE AND RATE OF RATE".		>	DRAWIN
3 I	REFER TO PLAN FOR SINGLI	E OR DOUBLE FACE, D	IRECTIONAL ARROWS, A	AND MOUNTING		(C) ^x	FIRE ALARM SMOKE DETECTOR - CEILING MOUNTED. "X" = "R", "T" TO INDICATE "BEAM RECEIVER", "BEAM TRANSMITTER" TYPE DETECTOR RESPECTIVELY. THE DEFAULT TYPE IS "PHOTOELECTRIC" INDICATED BY NO LETTER.		1	SHEET
MEP	Component Anchorage N	ote		September 13.	2016	\odot	FIRE ALARM MECHANICAL DUCT DETECTOR - COORDINATE LOCATION WITH HVAC DRAWINGS AND CONTRACTOR.	E-	-1	"E-1" DE
All m	echanical, plumbing, and el	ectrical components sl				RIL	DUCT DETECTOR REMOTE INDICATOR LIGHT	SYME	BOL L	IST NOT
anch	ored or braced to meet the f	orce and displacemen	t requirements prescribe			B	FIRE ALARM BELL	1 E)	VISTIN	G ELECT
1616	1. All permanent equipm	ent and components.	0 ⁰ 0 ut v0	hard wired) to the bui	lilding		FIRE ALARM AUDIBLE DEVICE, +90" A.F.F. UNLESS OTHERWISE NOTED. DEFAULT DEVICE IS A SPEAKER.	LIC	GHTLY	AND ACC
	 utility services such a Movable equipment w pounds or has a center 	s electricity, gas or wa hich is stationed in on er of mass located 4 fe	er. e place for more than 8 et or more above the ad	hours and heavier that jacent floor or roof lev	an 400 vel that	YY ⊠⊲ YY	FIRE ALARM AUDIO / VISUAL DEVICE, +80" A.F.F. DEFAULT AUDIO DEVICE IS A SPEAKER. "YY" INDICATES STROBE CANDELA RATING.	SF	HALL B	RICAL OUT BE SEPAR ER SHOW
The						Δ	FIRE ALARM AUDIO / VISUAL DEVICE, CEILING MOUNTED. DEFAULT AUDIO DEVICE IS A			ON SITE
attac	hment need not be detailed een the component and ass	on the plans. These ociated ductwork, pipi	omponents shall have fl ng, and conduit.	exible connections pro	ovided	тт Д	SPEAKER. "YY" INDICATES STROBE CANDELA RATING. VISUAL FIRE ALARM DEVICE +80" A.F.F WALL MOUNTED (LAMP, SIGNAL LIGHT, INDICATOR	TF	HE PAN	TED PANE NEL BOAF S IMPEDE
	above the adjacent flo	oor or roof level that di	ectly support the compo	nent.		YY	LAMP, STROBE), "YY" = CANDELA RATING VISUAL FIRE ALARM DEVICE - CEILING MOUNTED (LAMP, SIGNAL LIGHT, INDICATOR LAMP,			CONDUIT OPE INTO
	pounds per foot, which hose elements that do not re	h are suspended from equire details on the a	a roof or floor or hung fr proved drawings, the in	om a wall stallation shall be subj	oject to	X	STROBE), "YY" = CANDELA RATING	5. EN	MERGE	ENCY LIG S OF OPE
	pproval of the design profesonsibility and the DSA Districe equipment have been anchor									

F/S	FIRE/SM MECHAN
CM	FIRE ALA
MM	FIRE ALA
TS	FIRE RIS
FS	FIRE RIS
EOL-~~	END OF
FACP	MASTER
FAPS	REMOTE
ANN	FIRE ALA
S	SPEAKE
	SPEAKE
	HEIGHT.
\ominus	CLOCK ·
	- CONDUI
	QUANTIT
	WIRES. DENOTE
	FLEXIBLI
	OTHER T GREEN (
_	CONDUI
	∃ CONDUI ⁻ - EXISTIN
	OWNER.
	PANELBO
	PANELBO
	EXISTING
	EXISTIN
	TERMINA SWITCHI
	EQUIPM
	MATCH E
	EQUIPM
	EQUIPM
	MECHAN
	DRAWIN SHEET
1 E-1	DRAWIN "E-1" DEI
SYMBOL	
LIGHTL	NG ELECTR Y AND ACC
REMAIN	N AS IS, UN
SHALL	RICAL OUTI BE SEPARA HER SHOWI
	Y ON SITE T
	ATED PANE ANEL BOAR
OBJEC	TS IMPEDE
	E CONDUIT
	GENCY LIGH
	ES OF OPE
	 LIGHTL REMAIL 2. ELECT SHALL WHETH 3. VERIFY DEDICA THE PA OBJEC 4. WHERI PULL F 5. EMERC

Piping, Ductwork, and Electrical Distribution System Bracing Note Piping, ductwork, and electrical distribution systems shall be braced to comply with the forces and

displacements prescribed in ASCE 7-10 Section 13.3 as defined in ASCE 7-10 Section 13.6.5.6, 13.6.7, 13.6,8, and 2016 CBC, Sections 1616A.1.24, 1616A.1.25 and 1616A.1.26.

The method of showing bracing and attachments to the structure for the identified distribution system are as noted below. When bracing and attachments are based on a preapproved installation guide (e.g., SMACNA or OSHPD OPM), copies of the bracing system installation guide or manual shall be available on the jobsite prior to the start of and during the hanging and bracing of the distribution systems. The Structural Engineer of Record shall verify the adequacy of the structure to support the hanger and brace loads.

Mechanical Piping (MP), Mechanical Ducts (MD), Plumbing Piping (PP), Electrical Distribution Systems (E): MP MD PP EX - Option 1: Detailed on the approved drawings with project specific notes and details.

PROJECT DESCRIPTION

THE INTENT OF THESE DRAWINGS AND SPECIFICATIONS IS TO REPLACE EXISTING FIRE ALARM IN BUILDINGS A, B, C, D, E, AND F; TO ADD EMERGENCY LIGHTING AND REPLACE / ADD EXIT SIGNS WHERE REQUIRED; TO PROVIDE POWER AND CONTROL CONDUITS FOR NEW HVAC UNITS, AND TO PROVIDE LIGHTING / POWER IN REMODELED AREAS.

SHOULD ANY CONDITIONS DEVELOP, NOT COVERED BY THE CONTRACT DOCUMENTS, WHEREIN THE FINISHED WORK WILL NOT COMPLY WITH ALL REQUIRED CODES, A CHANGE ORDER DETAILING AND SPECIFYING THE REQUIRED WORK SHALL BE SUBMITTED TO, AND APPROVED BY, THE AGENCY BEFORE PROCEEDING WITH THE WORK.

ELECTRICAL SYMBOL LIST

SMOKE DAMPER PROVIDED BY OTHER DIVISION, CONNECTION BY ELECTRICAL. SEE HANICAL PLANS

ALARM RELAY MODULE

- ALARM MONITOR MODULE
- RISER TAMPER SWITCH
- RISER FLOW SWITCH
- OF LINE RESISTOR
- TER FIRE ALARM CONTROL PANEL
- OTE FIRE ALARM POWER SUPPLY
- ALARM REMOTE ANNUNCIATOR PANEL FLUSH MOUNTED
- AKER CEILING MOUNTED
- AKER WALL MOUNTED +72" A.F.F.
- RIOR SPEAKER WALL MOUNTED, REFER TO ARCHITECTURAL PLANS FOR MOUNTING
- CK WALL MOUNTED +84" A.F.F.
- DUIT RUN CONCEALED IN CEILINGS OR WALLS. NUMBER OF HASH MARKS DENOTES NTITY OF WIRES. CURVED HASH MARK DENOTES QUANTITY OF #12 GREEN GROUND ES. CONDUCTORS OTHER THAN #12 ARE INDICATED ON PLANS. NO HASH MARKS OTES 2 #12 AWG AND 1 #12 GREEN GROUND IN 1/2" CONDUIT. TYPICAL FOR ALL DUITS.
- IBLE CONDUIT CONCEALED. NUMBER OF HASH MARKS DENOTES QUANTITY OF WIRES. /ED HASH MARK DENOTES QUANTITY OF #12 GREEN GROUND WIRES. CONDUCTORS ER THAN #12 ARE INDICATED ON PLANS. NO HASH MARKS DENOTES 2 #12 AWG AND 1 #12 EN GROUND IN 1/2" MINIMUM DIAMETER CONDUIT.
- DUIT RUN UNDERFLOOR OR UNDERGROUND MINIMUM 1" DIAMETER.
- DUIT HOMERUN TO PANELBOARD, SWITCHBOARD OR TERMINAL CABINET
- DUIT WITH CAP
- ING CONDUIT AND WIRING
- ING CONDUIT TO BE REMOVED OR ABANDONED, REMOVE WIRES. COORDINATE WITH
- LBOARD SURFACE MOUNTED
- LBOARD FLUSH MOUNTED
- ING PANELBOARD SURFACE MOUNTED
- ING PANELBOARD FLUSH MOUNTED
- IINAL CABINET
- CHBOARD, DISTRIBUTION PANEL, OR MOTOR CONTROL CENTER
- PMENT DISCONNECT SWITCH EXTERNALLY OPERATED, FUSED WITH FUSE SIZE TO CH EQUIPMENT NAMEPLATE
- PMENT DISCONNECT SWITCH EXTERNALLY OPERATED, NON-FUSIBLE
- PMENT CONTROLLER
- HANICAL EQUIPMENT DESIGNATION SEE MECHANICAL PLANS
- VING SHEET NUMBERED NOTE DESIGNATION APPLIES TO NUMBERED NOTE ON SAME
- VING PLAN OR DETAIL DESIGNATION "1" OR "A" DENOTES PLAN OR DETAIL NUMBER, DENOTES SHEET NUMBER

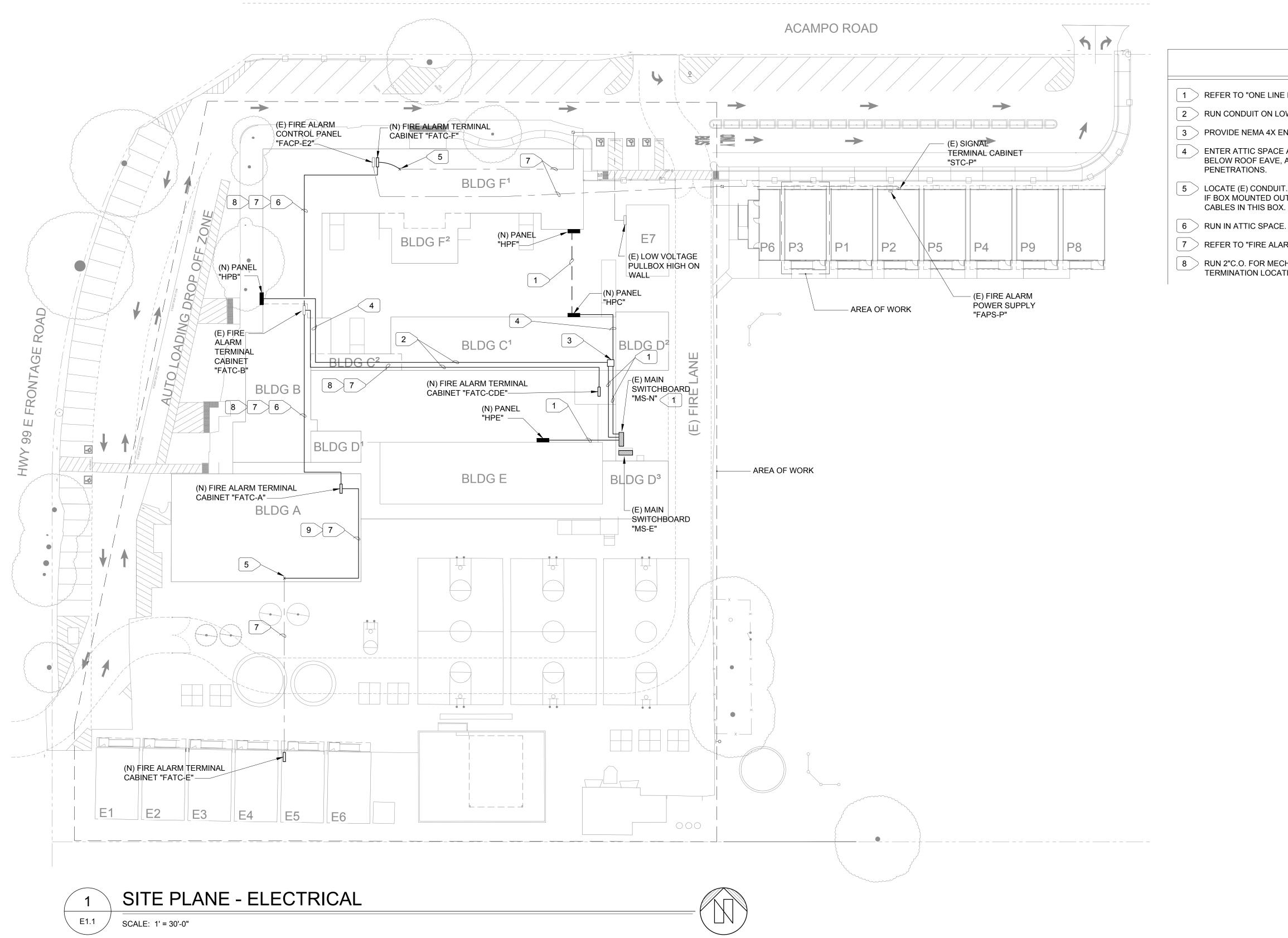
NOTES:

- CTRICAL EQUIPMENT, OUTLETS, AND DEVICES ARE SHOWN THE SAME AS NEW, EXCEPT ACCOMPANIED BY (E). SUCH ELECTRICAL EQUIPMENT, OUTLETS, AND DEVICES ARE TO UNLESS OTHERWISE NOTED ON PLAN OR SPECIFICATION.
- DUTLET BOXES MOUNTED ON OPPOSITE SIDES OF FIRE-RATED WALLS OR PARTITIONS ARATED BY A HORIZONTAL DISTANCE OF NOT LESS THAN 24 INCHES PER CBC 2016, OWN ON THE PLANS OR NOT.
- TE THAT ALL PANELBOARDS HAVE MINIMUM WORKING SPACES PER CODE AND THAT THE NELBOARD SPACES ARE CLEAR OF ALL DUCTS, PIPING AND EQUIPMENT FOREIGN TO DARDS. NOTIFY THE ENGINEER FOR CORRECTIVE ACTION IN THE EVENT THAT FOREIGN EDE THE DEDICATED PANELBOARD AREAS.
- UIT STUB IS INDICATED, PROVIDE CONDUIT WITH BUSHING AT THE END OF CONDUIT AND TO ACCESSIBLE CEILING AREA.
- LIGHT / EXIT SIGN SHALL BE PROVIDED WITH BATTERY THAT ALLOW MINIMUM OF 90 OPERATION AND SHALL HAVE SELF TESTING OPTION.



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	730 Howe Avenue, Suite 450 Sacramento, CA 95825 Phone: 916.921.2112	Fax: 910.921.2212								
	HENRY+ Associates									
★ S CC2	$\frac{AR_{CH}}{2525}$									
MODERNIZATION HOUSTON SCHOOL	SYMBOLS, NOTES, ABBREVIATIONS, SCHEDULES									
CONSULTANT PROFESS/ONAL SSEU. BASSIE No. E20229 Exp. 03-31-21 A CALIFORNIA										
PROJECT NO. 19-32-047	REVISIONS	BY								
DATE 12/11/2019										
DRAWN SG CHECKED										
SG SCALE										
CADFILE										
UPDATED										
SHEET NO.	4									
E0	.1									



1 REFER TO "ONE LINE DIAGRAM - POWER" FOR (N) CKT. BRKRS., CONDUIT AND CONDUCTORS. 2 RUN CONDUIT ON LOWER ROOF, PROVIDE SUPPORT PER 1/E5.0.

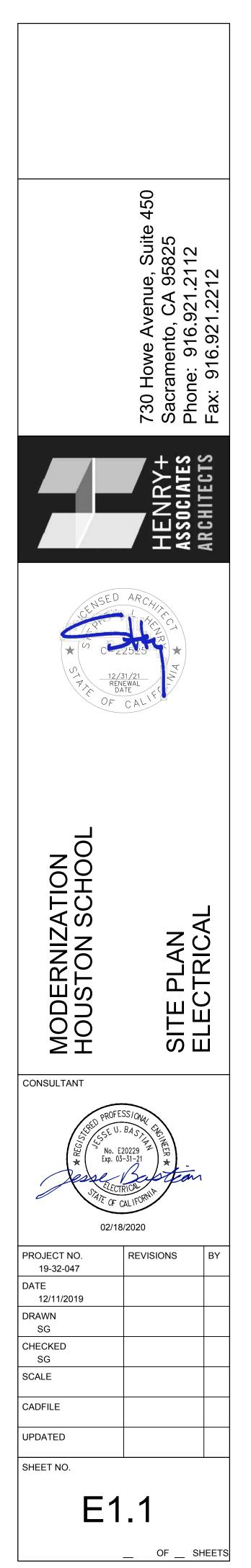
3 PROVIDE NEMA 4X ENCLOSURE WITH SCREW COVER 24"x24"x8". MOUNT PER 1/E5.0.

4 ENTER ATTIC SPACE AND RUN THROUGH. EXIT ATTIC SPACE AND CONTINUE ON WALL JUST BELOW ROOF EAVE, AND TURN DOWN TO (N) PANEL. WATERPROOF ALL EXTERIOR

5 > LOCATE (E) CONDUIT. CONNECT (N) CONDUIT TO (E) USING 6"X6"X4" BOX WITH SCREW COVER. IF BOX MOUNTED OUTSIDE, PROVIDE NEMA 3R. BOX IS USED AS PULLBOX, DON'T TERMINATE

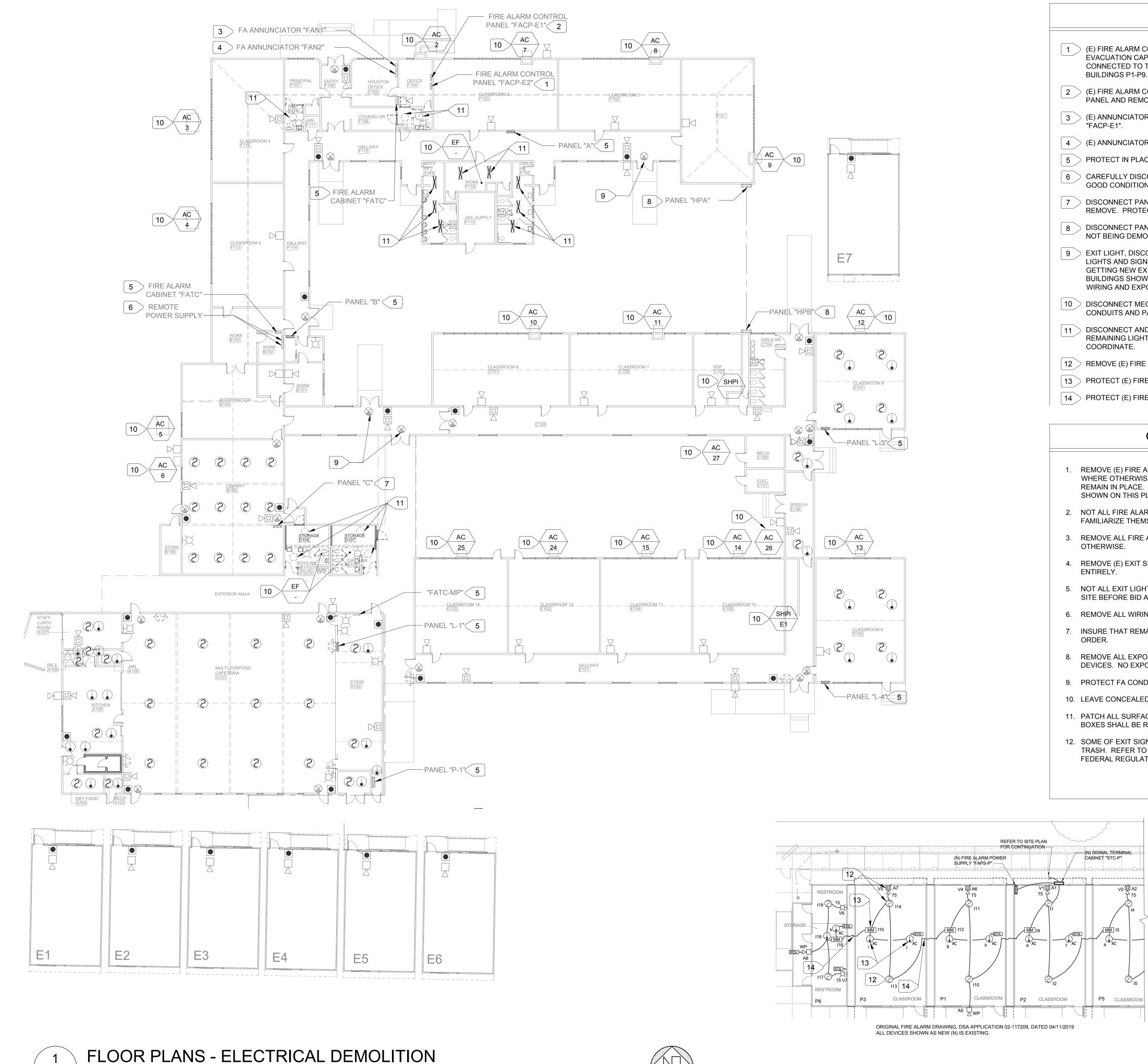
7 > REFER TO "FIRE ALARM RISER DIAGRAM" FOR CONDUIT AND CONDUCTORS.

8 RUN 2"C.O. FOR MECHANICAL CONTROL WIRING BY OTHERS. COORDINATE EXACT TERMINATION LOCATION WITH MECHANICAL CONTROL CONTRACTOR PRIOR TO ROUGH IN.





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E2.0

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

1	(E) FIRE ALARM CON EVACUATION CAPAI CONNECTED TO TH BUILDINGS P1-P9. F
2	(E) FIRE ALARM COM PANEL AND REMOV
3	(E) ANNUNCIATOR C "FACP-E1".
4	(E) ANNUNCIATOR C
5	PROTECT IN PLACE
6	CAREFULLY DISCOM
7	DISCONNECT PANE REMOVE. PROTECT
8	DISCONNECT PANE NOT BEING DEMOLI
9	EXIT LIGHT, DISCON LIGHTS AND SIGNS GETTING NEW EXIT BUILDINGS SHOWN WIRING AND EXPOS
10	DISCONNECT MECH CONDUITS AND PAT
11	DISCONNECT AND F REMAINING LIGHT C COORDINATE.
12	REMOVE (E) FIRE AI
13	PROTECT (E) FIRE A
14	PROTECT (E) FIRE A
	G

- SHOWN ON THIS PLAN.



NUMBERED NOTES:

NTROL PANEL, EDWARDS EST-3X, ADDRESSABLE PANEL WITH VOICE ABILITIES. BUILDING P1-P9 (NOT PART OF THIS MODERNIZATION) ARE HIS PANEL. PROTECT PANEL IN PLACE. PROTECT CONNECTIONS TO PROTECT CONNECTIONS TO OWNERS MONITORING STATION.

NTROL PANEL, EST LSS4/36, NON-ADDRESSABLE PANEL. DISCONNECT

CONNECTED TO "FACP-E1". REMOVE ANNUNCIATOR AND CONNECTION TO

CONNECTED TO "FACP-E2". PROTECT IN PLACE.

NNECT POWER SUPPLY AND PROTECT FOR REUSE. POWER SUPPLY IS IN REPLACE BATTERIES, AS SHOWN ELSEWHERE.

EL (PANEL CONSIST OF (4) GROUPS OF CKT. BRKRS. AND GUTTER), AND T (E) FEEDER AND EXISTING CIRCUITS FOR RECONNECTING.

EL AND REMOVE. REMOVE FEEDER BACK TO SOURCE. PROTECT CIRCUITS ISHED FOR RECONNECTION.

NNECT AND REMOVE. TYPICAL FOR EXIT LIGHT/SIGNS. NOT ALL EXISTING ARE SHOWN ON THIS PLAN. BUILDINGS SHOWN ON THIS PLAN ARE T LIGHTS, THEREFORE REMOVE ALL EXIT LIGHTS AND SIGNS IN THE N ON THIS PLAN EXCEPT IN BUILDINGS "P". REMOVE ALL ASSOCIATED SED BOXES AND CONDUITS. PATCH AND PAINT.

HANICAL UNIT. REMOVE WIRING BACK TO SOURCE. REMOVE EXPOSED ATCH AND PAINT ALL FINISHES TO MATCH (E) - COORDINATE.

REMOVE LIGHT FIXTURE AND ASSOCIATED SWITCHING. INSURE THAT CIRCUIT CONTINUITY. PATCH AND PAINT ALL FINISHES TO MATCH (E) -

LARM DEVICE.

ALARM DEVICE.

ALARM WIRING COMING BUILDING "P1" AND GETTING TO BUILDING "P6".

GENERAL DEMOLITION NOTES:

REMOVE (E) FIRE ALARM SYSTEM IN THE BUILDINGS SHOWN ON THIS PLAN ENTIRELY, EXCEPT WHERE OTHERWISE NOTED. FIRE ALARM DEVICES IN BUILDINGS "P6", "P1", "P2", "P5" SHALL REMAIN IN PLACE. FIRE ALARM DEVICES IN BUILDING "P3" SHALL BE REMOVED OR PROTECTED AS

NOT ALL FIRE ALARM DEVICES ARE SHOWN. CONTRACTOR SHALL VISIT SITE BEFORE BID AND FAMILIARIZE THEMSELVES WITH AREA OF DEMOLITION.

3. REMOVE ALL FIRE ALARM WIRING FROM BUILDINGS SHOWN ON THIS PLAN, EXCEPT WHERE NOTED

REMOVE (E) EXIT SIGNS AND EMERGENCY LIGHTS IN THE BUILDINGS SHOWN ON THIS PLAN

5. NOT ALL EXIT LIGHTS/SIGNS AND EMERGENCY LIGHTS ARE SHOWN. CONTRACTOR SHALL VISIT SITE BEFORE BID AND FAMILIARIZE THEMSELVES WITH AREA OF DEMOLITION.

6. REMOVE ALL WIRING ASSOCIATED WITH REMOVED DEVICES BACK TO SOURCE.

7. INSURE THAT REMAINING DEVICES ARE PROPERLY RECONNECTED, AND ARE IN FULL WORKING

8. REMOVE ALL EXPOSED BOXES AND EXPOSED CONDUITS / WIREMOLDS USED FOR REMOVED DEVICES. NO EXPOSED UNUSED CONDUITS OR BOXES SHALL BE LEFT IN PLACE.

9. PROTECT FA CONDUITS BETWEEN BUILDINGS.

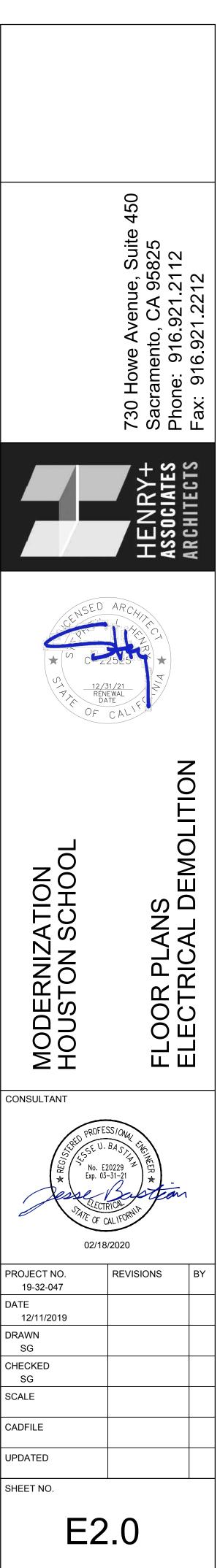
10. LEAVE CONCEALED, UNUSED CONDUITS IN PLACE

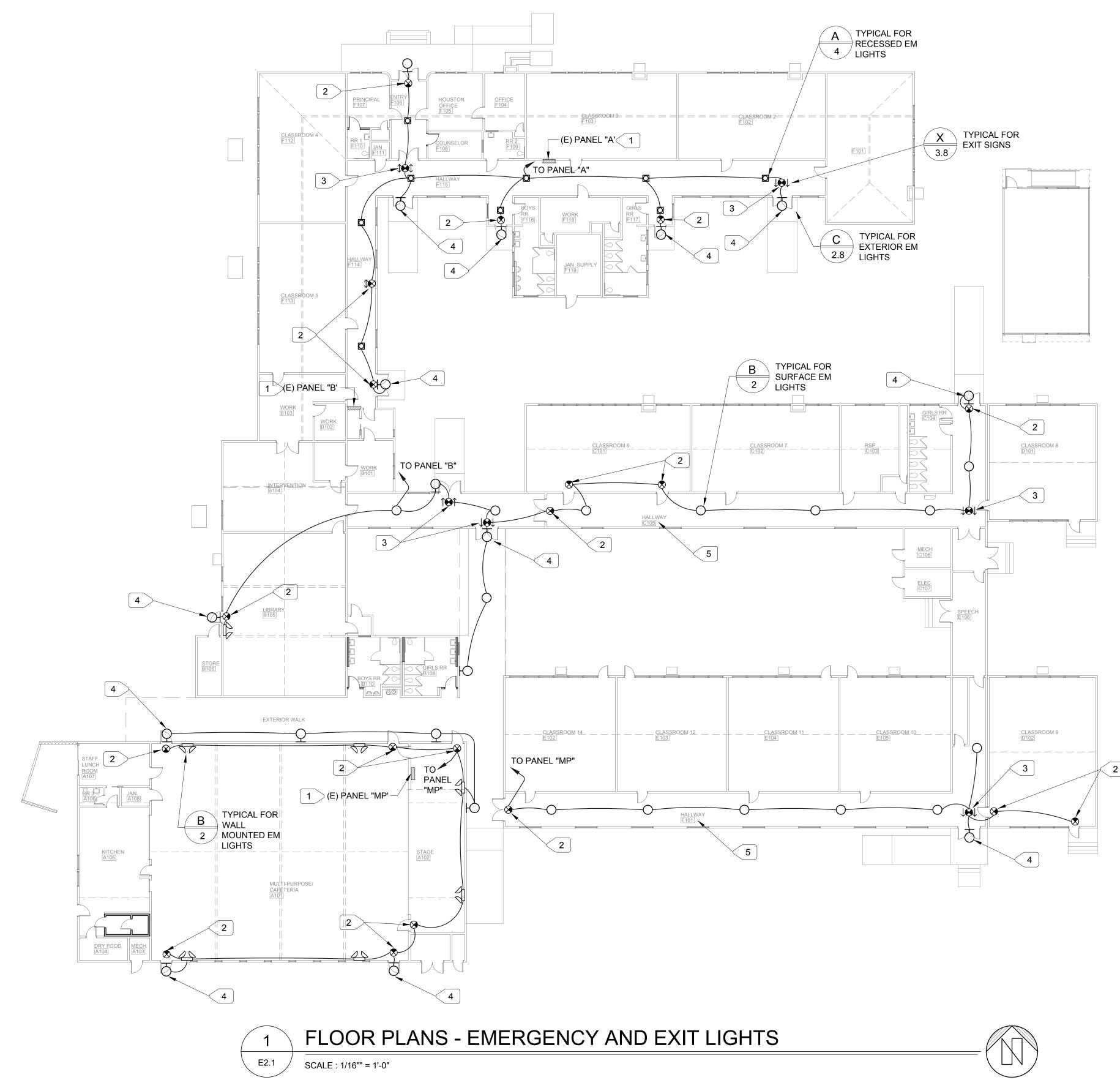
11. PATCH ALL SURFACES FROM WHICH DEVICES ARE REMOVED, AND PAINT TO BLEND IN. UNUSED BOXES SHALL BE REMOVED, UNLESS OTHERWISE DIRECTED, SURFACE PATCHED AND PAINTED.

12. SOME OF EXIT SIGNS CONTAIN TRITIUM. THESE SIGNS SHALL NOT BE DISPOSED AS NORMAL TRASH. REFER TO UNITED STATES NUCLEAR REGULATORY COMMISSION, TITLE 10 CODE OF FEDERAL REGULATIONS FOR REQUIREMENTS FOR TRITIUM SIGNS DISPOSAL



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1	PROVIDE (N) 20/1 C CKT. BRKR. UPDAT
2	MOUNT ABOVE DO
3	PROVIDE CEILING N BEFORE ROUGH IN
4	MOUNT EXTERIOR STRUCTURAL ENG
5	PROVIDE STEEL SU AS POSSIBLE. COO

CKT. BRKR. IN (E) SPACE. CONNECT (N) EMERGENCY LIGHTING CKT. TO THAT ATE PANEL DIRECTORY.

OOR OR ON WALL.

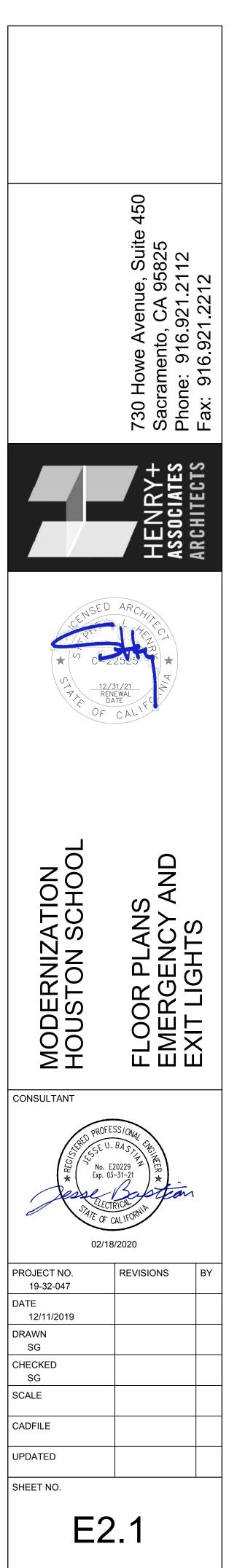
MOUNTING KIT, AND MOUNT SIGN AT CEILING. COORDINATE EXACT LOCATION

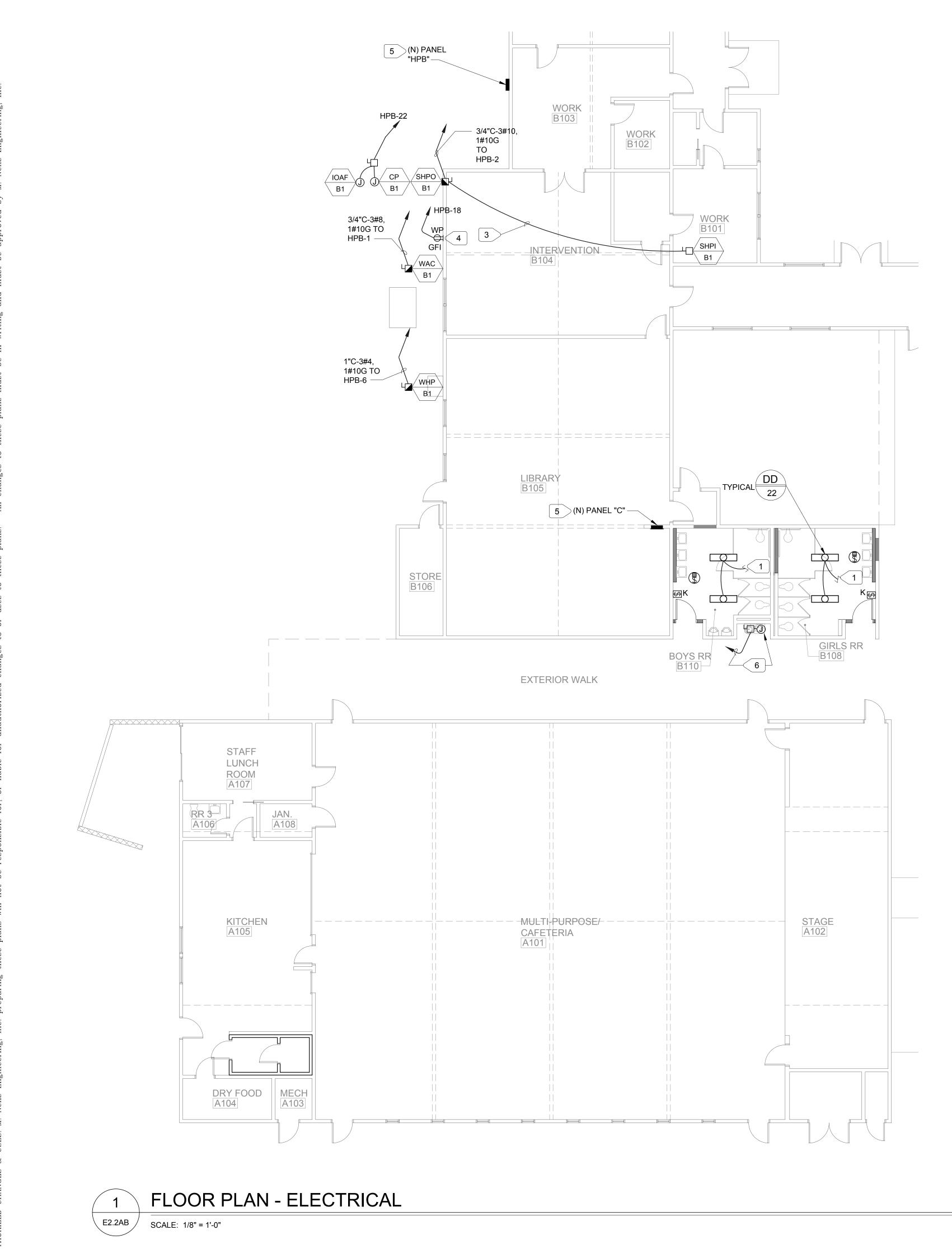
R EM LIGHT ABOVE DOOR. COORDINATE EXACT REQUIREMENTS WITH GINEER BEFORE ROUGH IN.

SURFACE RACEWAY, WIREMOLD V700. ROUTE RACEWAY AS CONSPICUOUSLY DORDINATE WITH THE ARCHITECT BEFORE ROUGH-IN.



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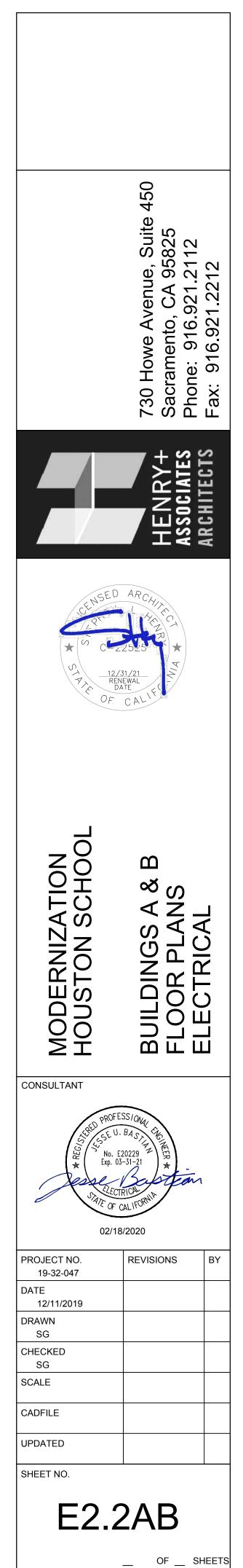


	N
1	CONNECT TO SALVAGED LIC
2	NOT USED.
3	INDOOR UNIT IS POWER FRO INDOOR AND OUTDOOR UN MECHANICAL BEFORE ROUG
4	PROVIDE IN METAL LOCKAB
5	COORDINATE EXACT LOCAT
6	(N) PANEL IN LIEU OF REMO BLEND INTO SURROUNDING
7	PROVIDE FOR AND CONNEC WITH PLUMBING BEFORE R



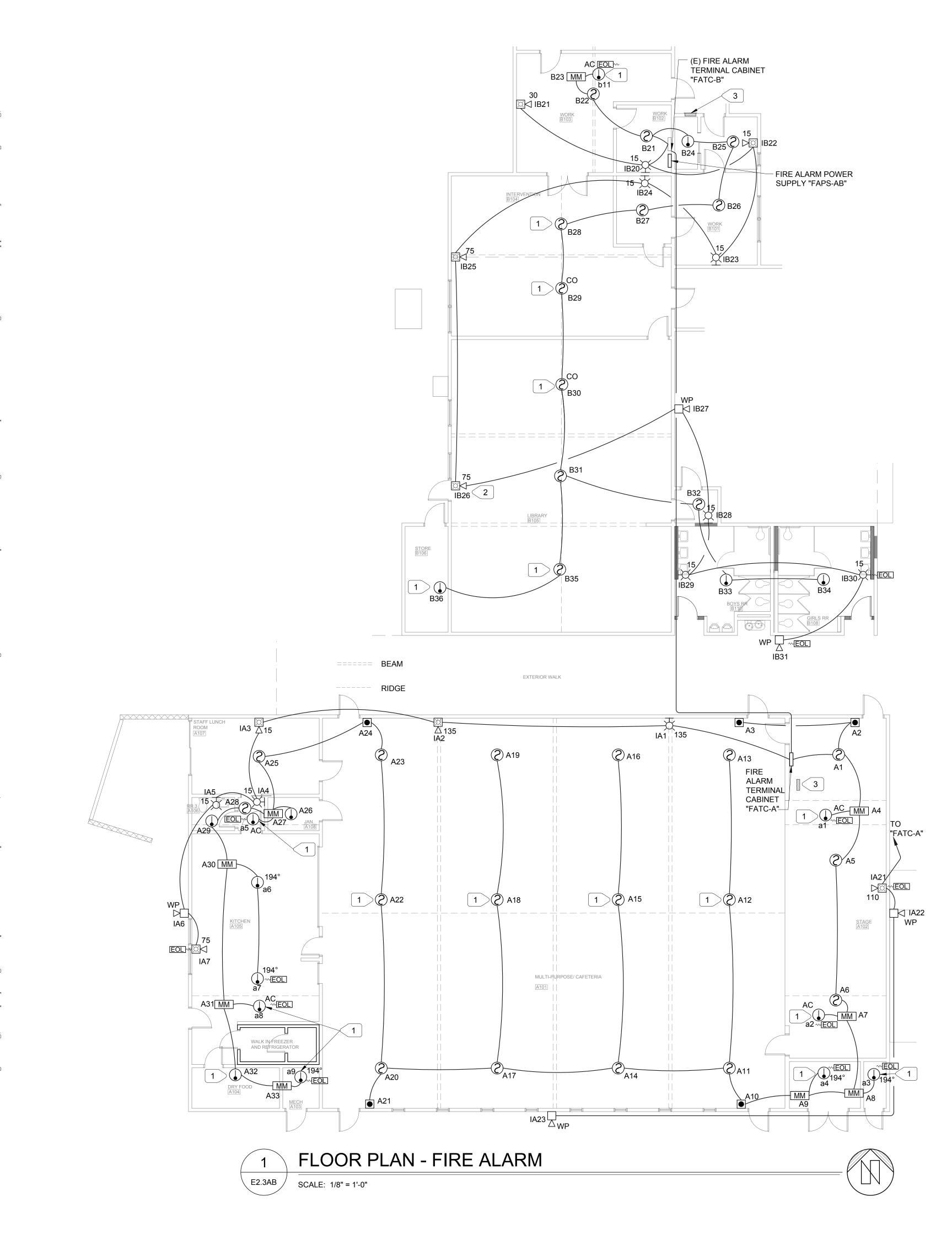
IGHTING CKT., REFER TO DEMOLITION.

- ROM OUTDOOR UNIT. PROVIDE ALL APPURTENANCES TO CONNECT NIT PER MANUFACTURER REQUIREMENTS. COORDINATE WITH UGH IN.
- ABLE ENCLOSURE WITH WHILE-IN-USE COVER.
- TION WITH THE ARCHITECT PRIOR TO ROUGH IN.
- MOVED. CONNECT (E) FEEDER AND (E) CKTS. PATCH AND PAINT TO NG. ADJUST AS REQUIRED.
- ECT POWER FOR WATER BOTTLE FILLING STATION. COORDINATE ROUGH IN. CONNECT TO PANEL "C".



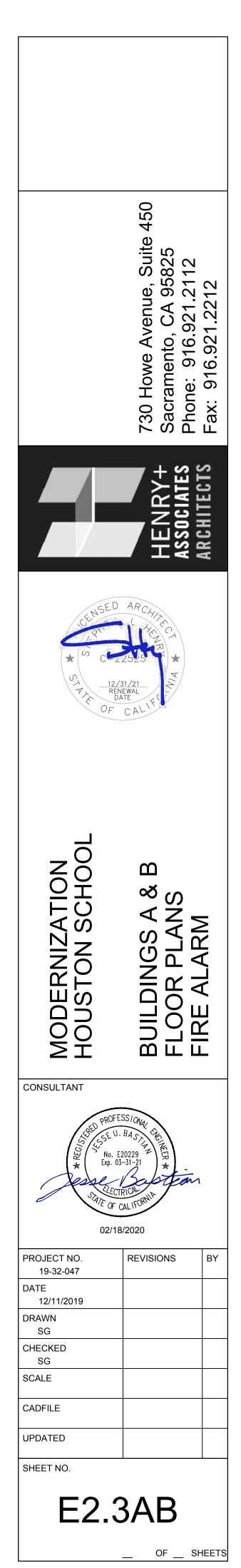


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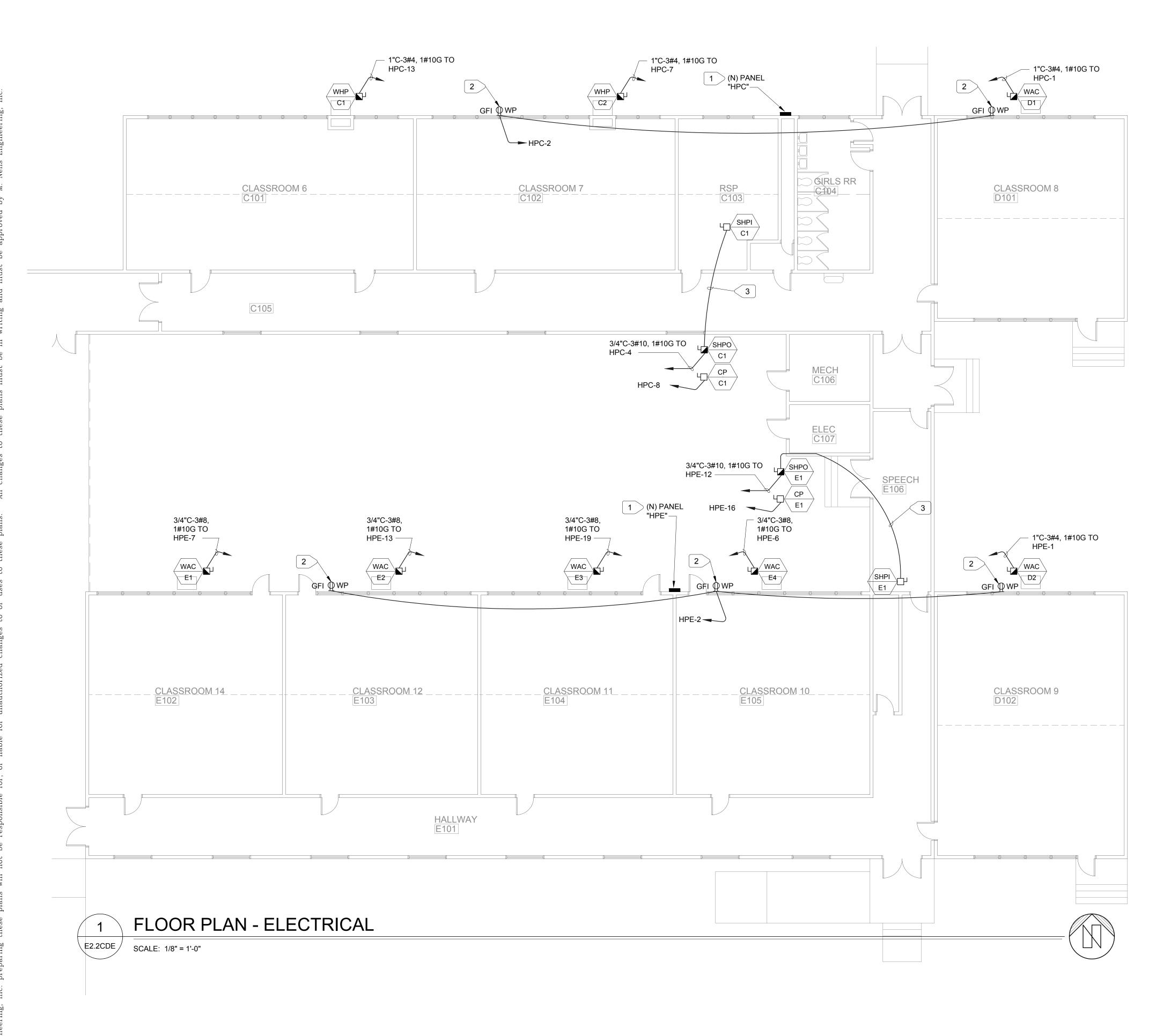
	NUMBERED NOTES:
1	MOUNT WITHIN 3' OF HIGHEST POINT AT CEILING.
2	MOUNT ABOVE DOOR SUCH STROBE LENS IS MAXIMUM 96" ABOVE FINISHED FLOOR.
3	PROVIDE (N) 20/1 CKT. BRKR. IN (E) PANEL AND CONNECT POWER TO FAPS USING 1/2"C-2#12, 1#12G.

ED NOTES:





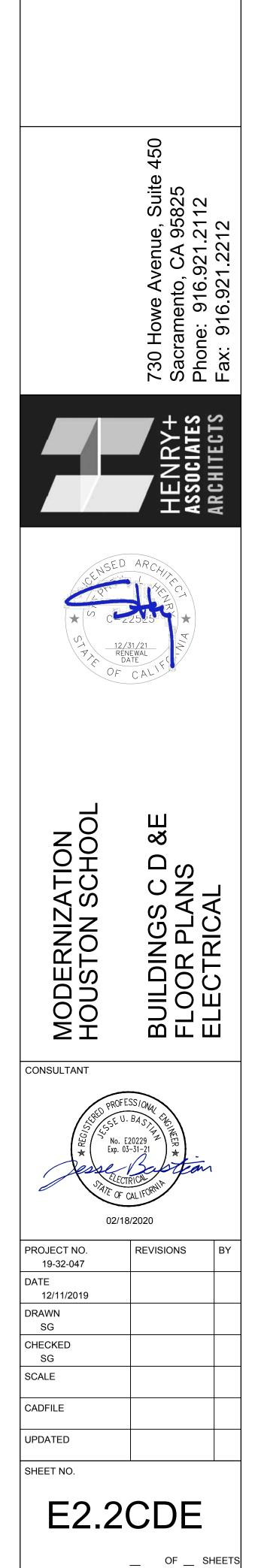
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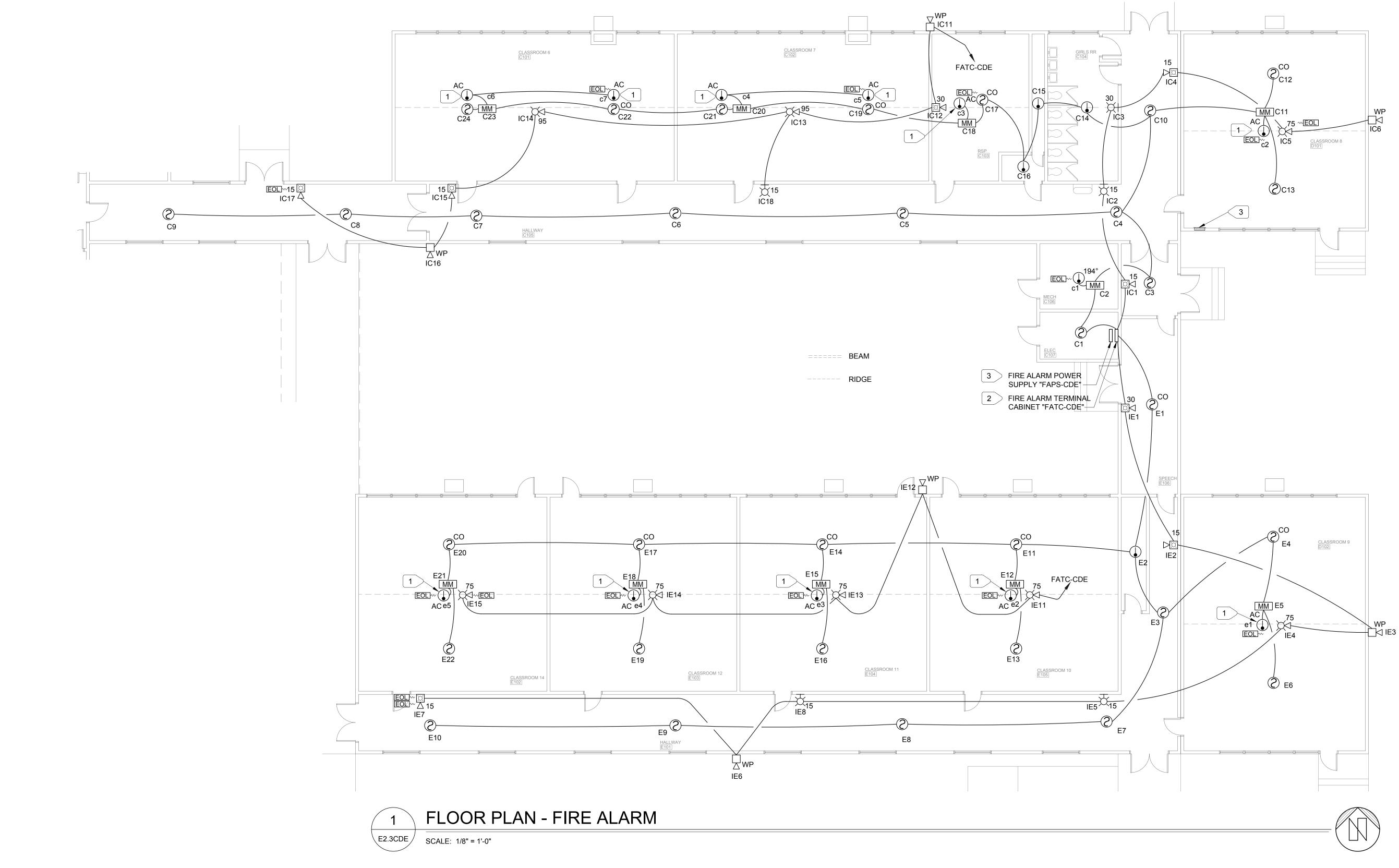
COORDINATE EXACT LOCATION OF (N) PANEL WITH THE ARCHITECT BEFORE ROUGH IN. PROVIDE IN METAL LOCKABLE ENCLOSURE WITH WHILE-IN-USE COVER.

INDOOR UNIT IS POWER FROM OUTDOOR UNIT. PROVIDE ALL APPURTENANCES TO CONNECT INDOOR AND OUTDOOR UNIT PER MANUFACTURER REQUIREMENTS. COORDINATE WITH MECHANICAL BEFORE ROUGH IN.





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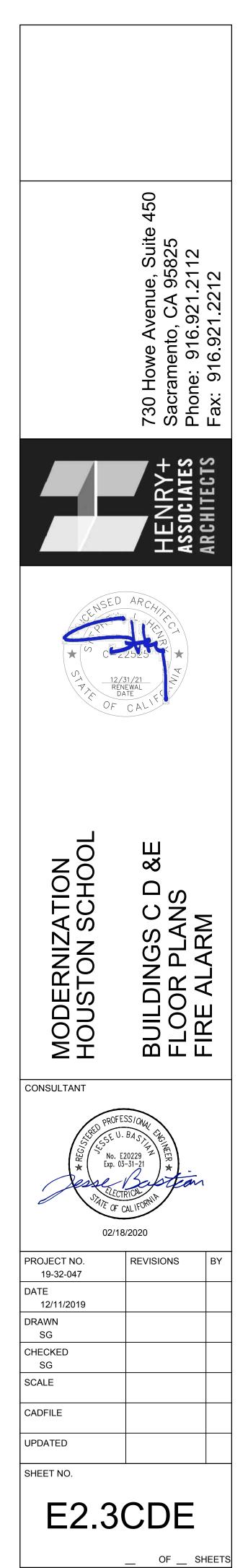
1 MOUNT WITHIN 3' OF HIGHEST POINT AT CEILING.

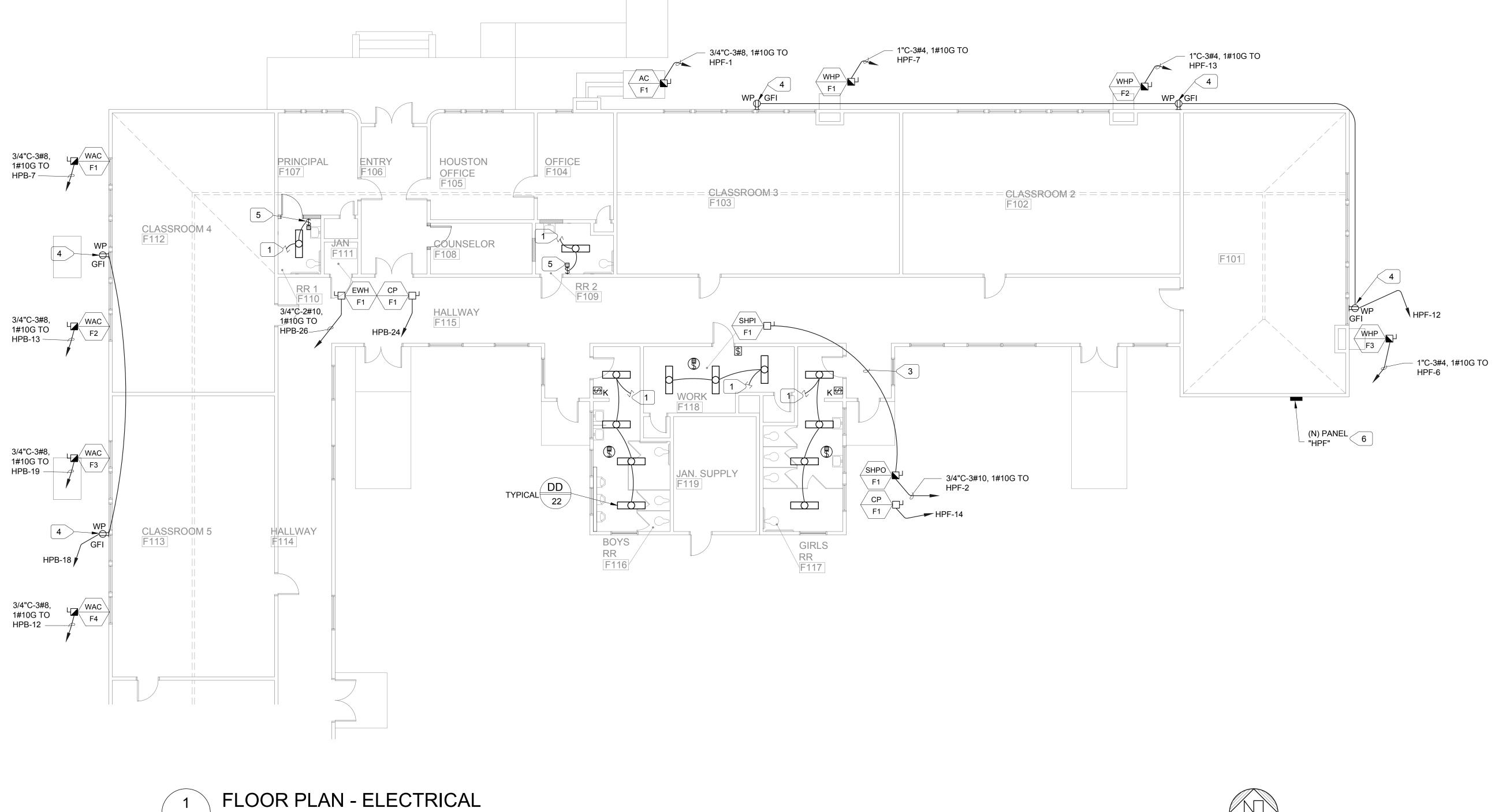
2 PROVIDE NEMA 1 ENCLOSURE 18" X 24" X 6" WITH LOCKABLE HINGED DOOR. PROVIDE 3/4" PLYWOOD BACKBOARD INSIDE.

3 PROVIDE (N) 20/1 CKT. BRKR. IN (E) PANEL AND CONNECT POWER TO FAPS USING 1/2"C-2#12, 1#12G.



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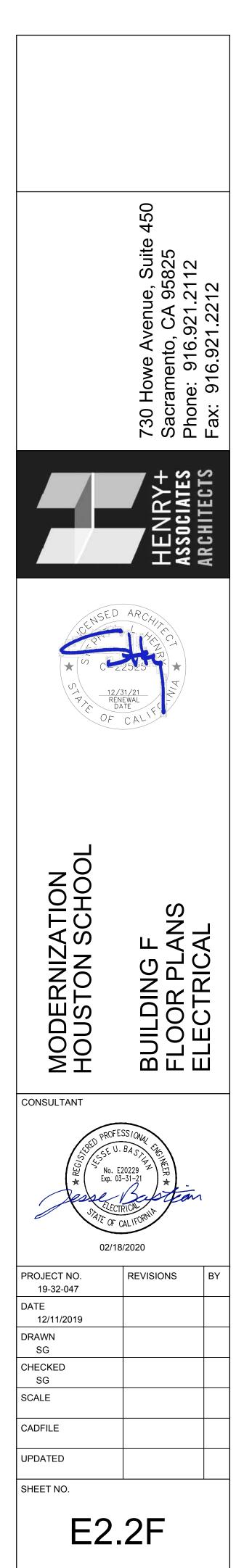


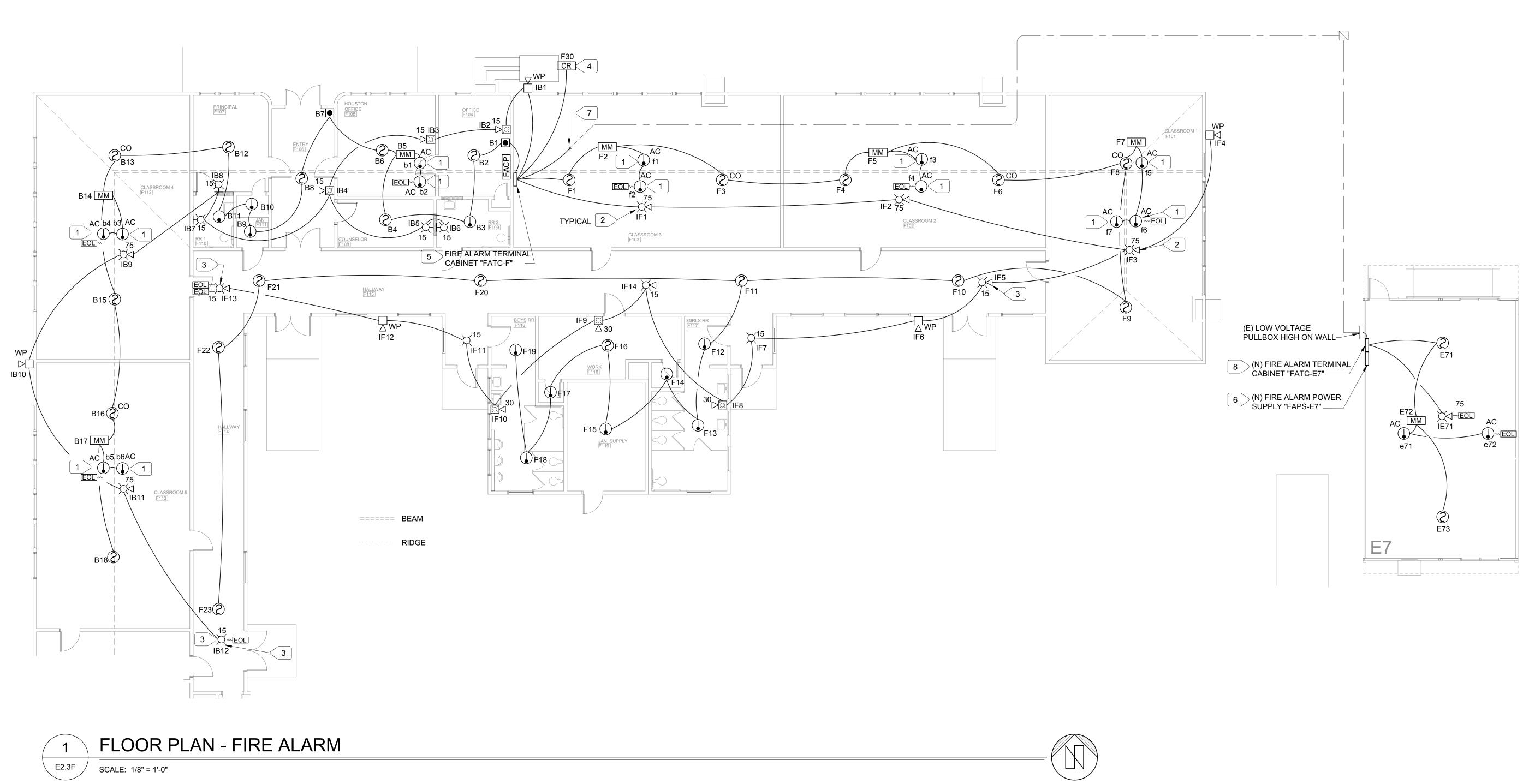
- 1 CONNECT TO SALVAGED LIGHTING CKT., REFER TO DEMOLITION.
- 2 NOT USED.
- 3 INDOOR UNIT IS POWER FROM OUTDOOR UNIT. PROVIDE ALL APPURTENANCES TO CONNECT INDOOR AND OUTDOOR UNIT PER MANUFACTURER REQUIREMENTS. COORDINATE WITH MECHANICAL BEFORE ROUGH IN.
- 4 PROVIDE IN METAL LOCKABLE ENCLOSURE WITH WHILE-IN-USE COVER.
- 5 PROVIDE ON/OFF SWITCH WITH OCCUPANCY SENSOR.
- 6 COORDINATE EXACT LOCATION WITH THE ARCHITECT PRIOR TO ROUGH IN.





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1	MOUNT WITHIN 3' OF HIGHEST POINT AT CEILING.
2	CEILING MOUNTED NOTIFICATION DEVICE SHALL BE INSTALI CEILING AS PRACTICABLE. TYPICAL U.O.N.
3	MOUNT WITHIN 15' FROM THE END OF CORRIDOR.
4	PROVIDE FOR SENDING SIGNAL TO MECHANICAL CONTROL AC-F1 (ACTUAL UNIT SHUTDOWN BY MECHANICAL CONTRAC CONDITION AT FIRE ALARM CONTROL PANEL. COORDINATE CONTRACTOR PRIOR TO ROUGH IN.
5	PROVIDE NEMA 1 ENCLOSURE 18" X 24" X 6" WITH LOCKABLE PLYWOOD BACKBOARD INSIDE.
6	PROVIDE (N) 20/1 CKT. BRKR. IN (E) POWER PANEL AND CON ALARM POWER SUPPLY USING 1/2"C-2#12, 1#12G.
7	LOCATE (E) CONDUIT AND EXTEND TO (N) FATC-F. REFER TO
8	PROVIDE NEMA 1 ENCLOSURE, 12"X12"X6", SCREW COVER, V INSIDE. MOUNT ABOVE ACCESSIBLE CEILING.
7	PROVIDE (N) 20/1 CKT. BRKR. IN (E) POWER PANEL AND CO ALARM POWER SUPPLY USING 1/2"C-2#12, 1#12G. LOCATE (E) CONDUIT AND EXTEND TO (N) FATC-F. REFER PROVIDE NEMA 1 ENCLOSURE, 12"X12"X6", SCREW COVER

ALLED CLOSE TO THE CENTER OF

DL FOR SHUTDOWN OF HVAC UNIT ACTOR) UPON FIRE ALARM TE WITH MECHANICAL CONTROL

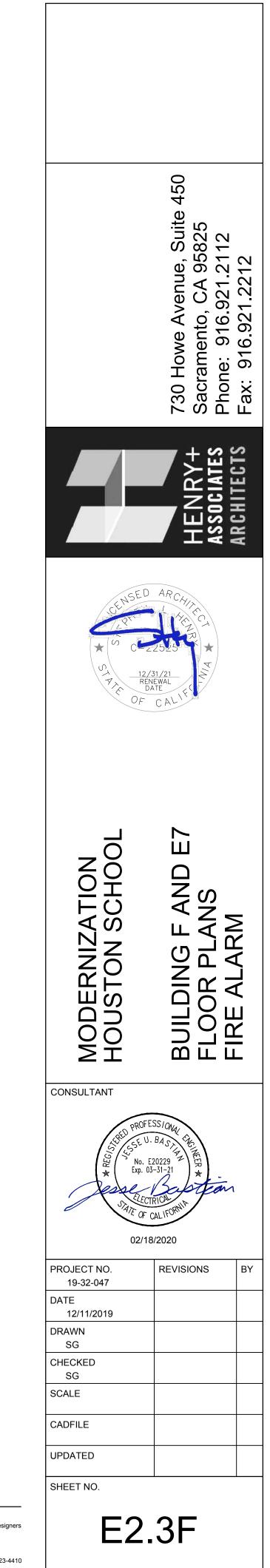
LE HINGED DOOR. PROVIDE 3/4"

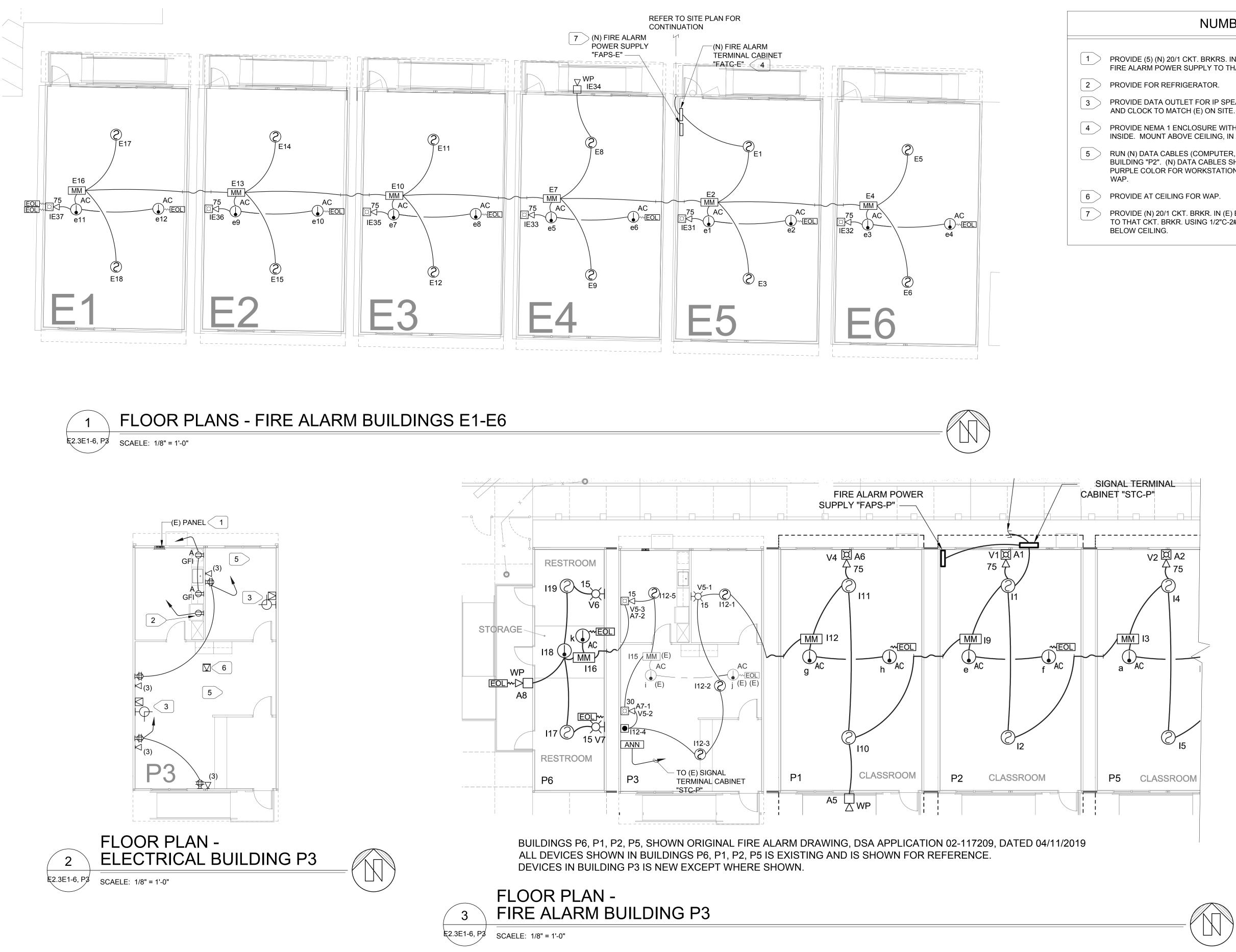
NNECT POWER FOR (N) FIRE

TO SHEET E1.1, NOTE #5. , WITH 3/4" PLYWOOD BACKBOARD



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1	PROVIDE (5) FIRE ALARM
2	PROVIDE FC
3	PROVIDE DA AND CLOCK
4	PROVIDE NE INSIDE. MOI
5	RUN (N) DAT BUILDING "P PURPLE COI WAP.
6	PROVIDE AT
7	PROVIDE (N) TO THAT CK BELOW CEIL

) (N) 20/1 CKT. BRKRS. IN (E) SPACES. CONNECT (N) RECEPTACLE CKTS. AND (N) 1 POWER SUPPLY TO THAESE CKT. BRKRS. UPDATE PANEL DIRECTORY.

DATA OUTLET FOR IP SPEAKER. MOUNT AS DIRECTED IN FIELD. PROVIDE SPEAKER

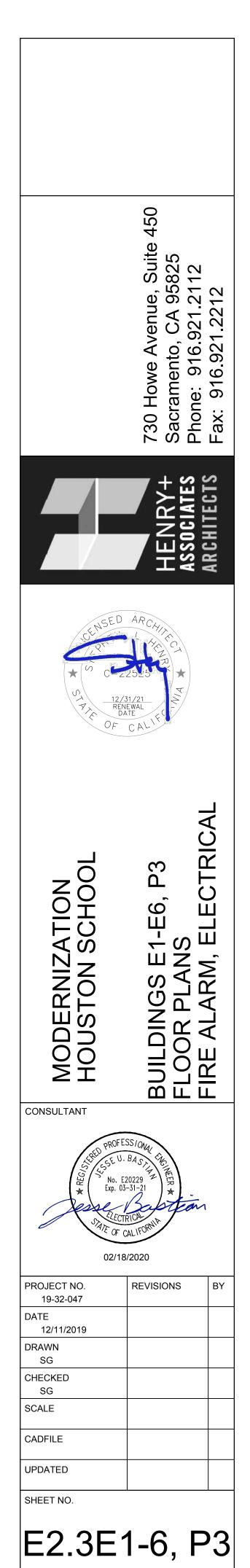
EMA 1 ENCLOSURE WITH SCREW COVER, 18"x18"x6" WITH PLYWOOD BACKBOARD UNT ABOVE CEILING, IN ACCESSIBLE ATTIC SPACE.

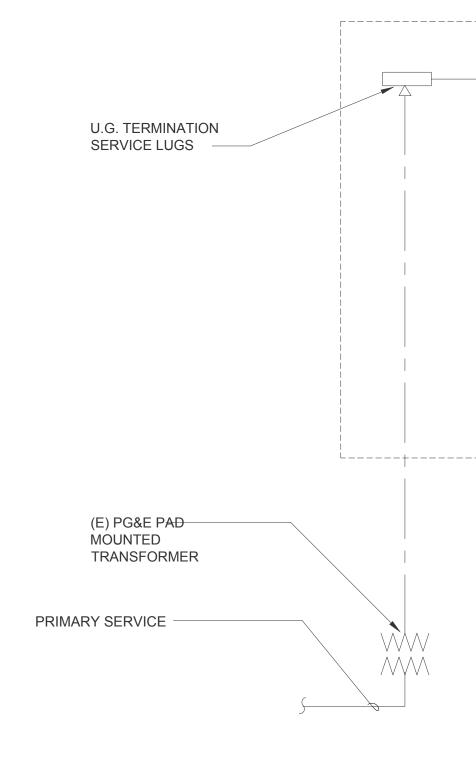
ATA CABLES (COMPUTER, CLOCK/SPEAKER, IP PHONE) TO (E) IDF IN PORTABLE "P2". (N) DATA CABLES SHALL BE CAT 6A, GENERAL CABLE 71338xx. PROVIDE LOR FOR WORKSTATIONS, GREEN FOR INTERCOM, GRAY FOR VOICE, BLUER FOR

N) 20/1 CKT. BRKR. IN (E) BUILDING POWER PANEL AND CONNECT POWER FOR FAPS KT. BRKR. USING 1/2"C-2#12, 1#12G. MOUNT HIGH ON WALL, TOP OF ENCLOSURE 1"



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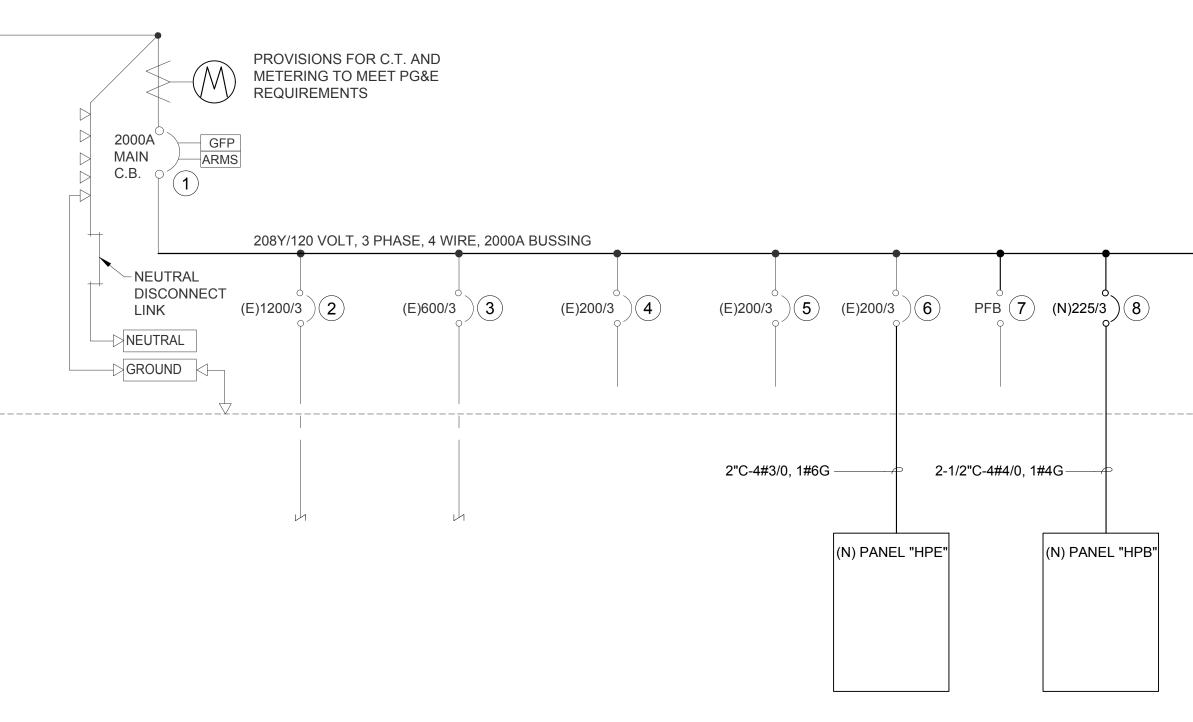


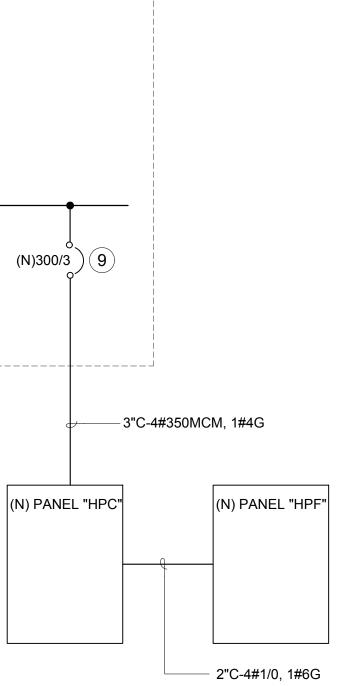


		NE	W PAI	NEL "HPB" S	CHEDU	LE		NEW PANEL "HPC" SCHEDULE								NEW PANEL "HPE" SCHEDULE											
POWER SOL	IRCE: MAIN S	WITCHBOARD	"MS-N"	LOCA	TION: SEE	PLANS		POWER SOURCE: MAIN SWITCHBOARD "MS-N" LOCATION: SEE PLANS								POWER SOURCE: MAIN SWITCHBOARD "MS-N" LOCATION: SEE PLANS											
TYPE:	BUS: 250	MAIN BKR 225A SUB FD: NA		GE: 120/208 VOLT, HASE, 4 WIRES		G: SURFACE REMARKS: E: NEMA 3R _k AIC MIN. SYMM.		TYPE: BUS: 400	MAIN BKR 300A		AGE: 120/208 VC PHASE, 4 WIRES	'		6: SURFACE E: NEMA 3R		MARKS: MIN. SYMM.	TYPE:	BUS: 250	MAIN BKR 200A)/208 VOL WIRES	· ·		: SURFACE : NEMA 3R		MARKS: MIN. SYMM
LOAD	SERVED	kVA	СВ	CKT PHASE CKT	СВ	kVA	LOAD SERVED	LOAD SERVED	kVA	СВ	CKT PHASE	скт	СВ	kVA	LOAD	SERVED	LOAD S	ERVED	kVA	СВ	скт	PHASE	скт	СВ	kVA	LOA	D SERVED
		3.8		1 A 2 25/2		2.0	SHPO-B1		4.4		1 A	2	20/1	0.8	RECEPTAC	LES			4.4		1	А	2	20/1	0.8	RECEPTA	CLE
WAC-B1		3.8	45/3	3 B 4		2.0		WHP-C1	4.4	60/3	3 B	4	25/2	2.0	SH	IPO-C1	WAC-D2		4.4	60/3	3	В	4	20/1		RECEPTACLE	
WAC-F1		3.8		5 C 6	60/3	4.4	WHP-B1		4.4			6	~~ / /	2.0					4.4		5	C	6	40/3	3.5		VAC-E4
		3.5 3.5	40/3	7 A 8 9 B 10	00/3	4.4 4.4	VVHP-BI	WHP-C2	4.4 4.4	60/3	7 A 9 B	8	20/1 20/1		CIRCULATIO		wac	_ ⊑ 1	3.5	40/3	7	A	8 10	40/3	3.5 3.5	v	VAC-E4
		3.5 3.5	40/0	<u>9</u> <u>В</u> 10 11 С 12		4.4 3.5			4.4	00/0		10	20/1		SPARE				3.5 3.5	40/0	11	В	10		3.5 2.0		
		3.5		13 A 14	40/3	3.5	WAC-F4		4.4		13 A	14	20/1		SPARE				3.5		13	A	14	25/2	2.0	S	HPO-E1
WA	C-F2	3.5	40/3	15 B 16	-	3.5		WAC-D1	4.4	60/3	15 B	16	20/1		SPARE		WAC	C-E2	3.5	40/3	15	В	16	20/1		CIRCULAT	ON PUMP
		3.5		17 C 18	20/1	0.8	RECEPTACLE		4.4		17 C	18	20/1		SPARE				3.5		17	С	18	20/1		SPARE	
		3.5		19 A 20	20/1	0.8	RECEPTACLE	SPARE		20/1	19 A	20	PFB		SPACE						19	А	20	20/1	deren and a second s	SPARE	
WA	C-F3	3.5	40/3	21 B 22	20/1		CIRCULATION PUMP	SPARE		20/1	21 B	22	PFB		SPACE		WAG	С-ЕЗ	3.5	40/3	21	В	22	20/1		SPARE	
		3.5		23 C 24	20/1		CIRCULATION PUMP	SPARE		20/1		24	PFB		SPACE				3.5		23	C	24	20/1		SPARE	
			20/1	25 A 26	- 25/2	2.0	WH-F1				25 A	26	150/3	18.0	DAN	EL "HPF"	SPACE			PFB	25	A	26	PFB		SPACE	
PARE PARE			20/1 20/1	27 B 28 29 C 30	PFB	2.0	SPACE				27 B 29 C	28 30	150/3	18.0 16.8	PAN	EL MPF	SPACE SPACE			PFB PFB	27 29	B	28 30	PFB PFB		SPACE SPACE	
			20/1				OFAGE	-			20 0			10.0							20		00	110	<u>_</u>		
<u> </u>						PHASE A=	27.0 kVA	NOTE(S):						PHASE A=	32.8	kVA	NOTE(S):								PHASE A=	21.2	kVA
1.						PHASE B=	27.0 kVA	1.						PHASE B=	33.2	kVA	1.								PHASE B=	20.0	kVA
						PHASE C=	23.8 kVA							PHASE C=	32.0	kVA									PHASE C=	20.4	kVA
2.								2.																			
-						TOTAL =								TOTAL =	98.0	kVA									TOTAL =	61.6	kVA
3.						TOTAL =	216.0 Amperes	3.						TOTAL =	272.0	Amperes	3.								TOTAL =	171.0	Ampere

NEW F	PANEL	"HPF"	SCHEDULE
	/		

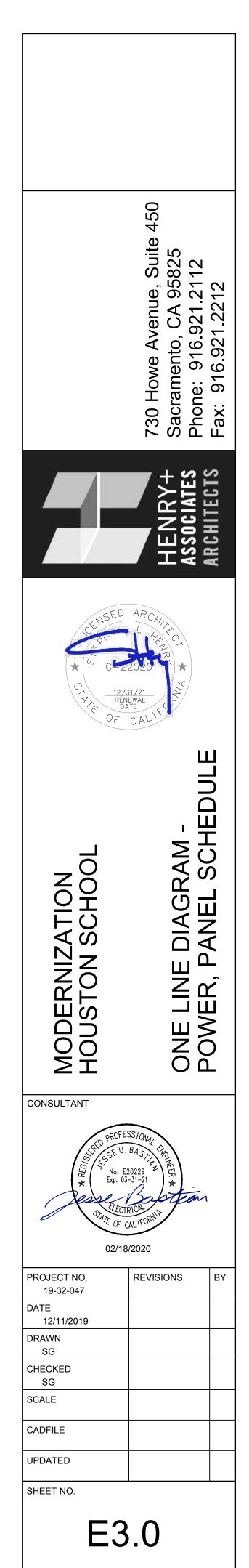
												NEW PANEL "C " SCHEDULE									
POWER SOL	URCE: PANEL	"HPC"				LOCA	TION: SEE	PLANS			POWER SOU	RCE: CKT. E	BRKR. IN JAN. S		119		LOCA	TION: SEE	PLAN		
TYPE:	BUS: 250		VOLTAGE: 120/208 VOLT, MOUNTING: SURFACE REMARKS:			TYPE:	BUS: 125	MAIN BKR 100A SUB FD: NA			/208 VO WIRES	-·,	MOUNTIN	ig: Flush		REMARKS: _k AIC MIN. SYMM.					
LOAD	SERVED	kVA	СВ	скт	PHASE	скт	СВ	kVA	LOAE	D SERVED	LOAD	SERVED	kVA	СВ	скт	PHASE	скт	СВ	kVA	LOAD) SERVED
		2.8		1	A	2	25/2	2.0	cı	HPO-F1	EXISTING LO	AD	0.8	20/1	1	A	2	20/1	0.8	EXISTING L	.OAD
A	C-F1	2.8	35/3	3	В	4	2312	2.0	5		EXISTING LO	AD	0.8	20/1	3	В	4 20/1 0.8 E		EXISTING L	EXISTING LOAD	
		2.8		5	С	6		4.4	-		EXISTING LO	AD	0.8	20/1	5	С	6	20/1	0.8	EXISTING L	.OAD
		4.4			8	60/3	4.4	W	WHP-F3 EXISTIN		EXISTING LOAD		20/1		А	8	20/1	0.8	EXISTING LOAD		
Wł	WHP-F1		60/3	9	В	10		4.4			EXISTING LO	AD	0.8	20/1	9	В	10	20/1	0.8	EXISTING L	.OAD
		4.4		11	c	12	20/1	0.8	RECEPTAC	LE	EXISTING LO	AD	0.8	20/1	11	c	12	20/1	0.2	WATTER FI	LLING STATION
		4.4		13	A	14	20/1	0.8	CIRCULATI	ON PUMP	EXISTING LO	AD	0.8	20/1	13	А	14	20/1		SPARE	
WI	HP-F2	4.4	60/3	15	В	16	20/1		SPARE		EXISTING LO	AD	0.8	20/1	15	В	16	20/1		SPARE	
		4.4		17	c	18	20/1		SPARE		EXISTING LO	AD	0.8	20/1	17	c	18	20/1		SPARE	
SPARE			20/1	19	A	20	20/1		SPARE		EXISTING LO	AD	0.8	20/1	19	A	20	20/1		SPARE	
SPARE			20/1	21	В	22	20/1		SPARE		EXISTING LO	AD	0.8	20/1	21	В	22	20/1		SPARE	
SPARE			20/1	23	c	24	20/1		SPARE		EXISTING LO	AD	0.8	20/1	23	c	24	20/1		SPARE	
SPACE			PFB	25	A	26	PFB		SPACE		EXISTING LO	AD	0.8	20/1	25	A	26	PFB		SPACE	
SPACE			PFB	27	В	28	PFB		SPACE		EXISTING LO	AD	0.8	20/1	27	В	28	PFB		SPACE	
SPACE			PFB	29	С	30	PFB		SPACE		EXISTING LO	AD	0.8	20/1	29	С	30	PFB		SPACE	
NOTE(S):								PHASE A=	18.8	kVA	NOTE(S):								PHASE A=	5.6	kVA
1.								PHASE B=	18.0	kVA	1.								PHASE B=	5.6	kVA
								PHASE C=	16.8	kVA									PHASE C=	5.0	kVA
2	•										2.										
								TOTAL =	53.6	kVA									TOTAL =	16.2	kVA
3.								TOTAL =	148.8	Amperes	3.								TOTAL =	45.0	Amperes

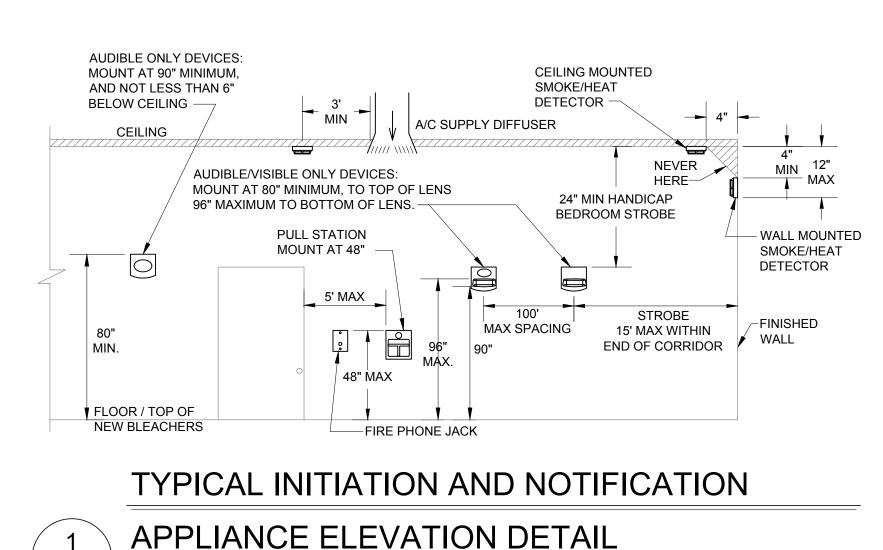






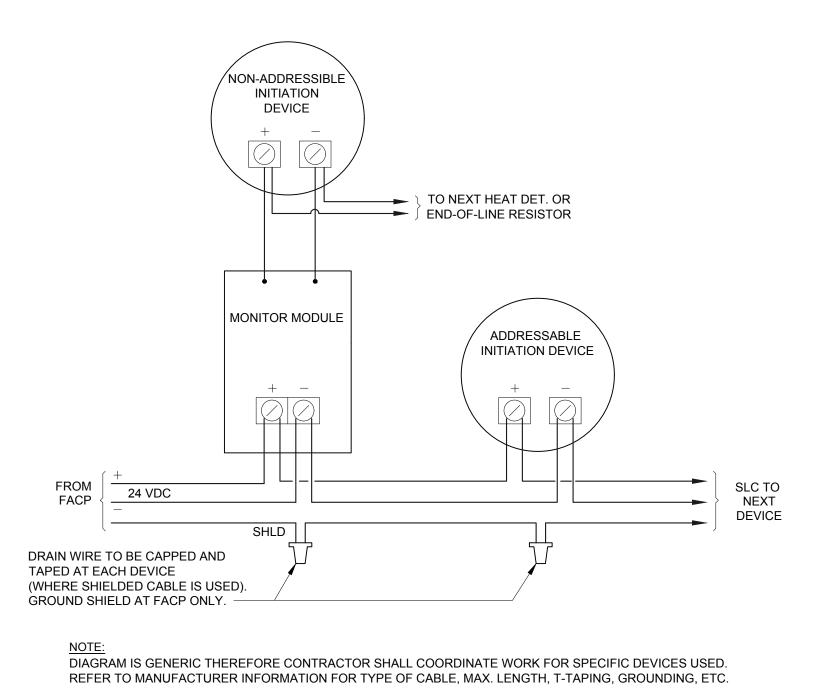
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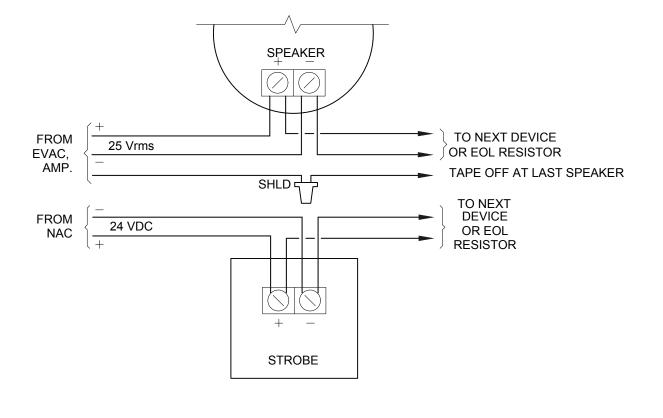
E4.0

NO SCALE





FIRE ALARM SEQ	UEN	ICE	OF	OPE	RAT	ION	MA	TRIX	<
	FACP ALARM	FACP TROUBLE	FACP SUPERVISORY	ALARM SIGNAL OFF-SITE	TROUBLE SIGNAL OFF-SITE	SUPERVISORY OFF-SITE	ACTIVATE AUDIO/VISUAL THROUGHOUT	ALARM RECEIPT CAPABILITY DURING ABNORMAL CONDITIONS	ANNUNCIATE ALARM AT REMOTE ANNUNCIATOR
AREA SMOKE DETECTORS	Х			Х			Х		Х
HEAT DETECTORS	Х			Х			Х		Х
FIRE TANK WATER LEVEL			Х			Х			
POWER FAILURE		Х			Х				X
NOTIFICATION CIRCUIT CLASS B									
OPEN WIRE		Х			Х				
GROUNDED WIRE		Х			Х			R	
SHORTED WIRES		X			X				
SIGNALING LINE CIRCUIT CLASS B									
OPEN WIRE		Х			X				
GROUNDED WIRE		Х			Х			R	
WIRE TO WIRE (SHORT & OPEN)		Х			Х				
WIRE TO WIRE (SHORT & GROUND)		Х			Х				
OPEN & GROUND		Х			Х				
LOSS OF CARRIER		Х			Х				
NOTE: BLANK MEANS NOT APPLI	CABLE			F	R = REG	UIRED	ACTIO	N	



1.	REVISE EXISTING F

- RECORD AS WITNESSES.
- COVERAGE.
- OFF, OR OFF LINE.

FIRE ALARM EQUIPMENT SCHEDULE

SYMBOL	CATALOG NO.	DESCRIPTION	CSFM LISTING No.
WP □⊲	WHEELOCK ET-1010 WITH WBB OUTDOOR BACKBOX	SPEAKER, OUTDOOR WALL MOUNTED	7320-0785:0105
\square	WHEELOCK E70-24MCW-FR, E70-24MCWH-FR	SPEAKER/STROBE, WALL MOUNTED	7125-0785:0152
Å	WHEELOCK ST	STROBE, WALL MOUNTED	7125-0785:0168
X	WHEELOCK E90-24MCW-FR, E90-24MCWH-FR	SPEAKER/STROBE, CEILING MOUNTED	7125-0785:0152
X	WHEELOCK STC	STROBE, CEILING MOUNTED	7125-0785:0168
(2)	EST SIGA-PS	SMOKE PHOTOELECTRIC DETECTOR	7272-1657:0126
(\mathbf{S}_{co})	EST SIGA-PHCOS	SMOKE/HEAT/CO DETECTOR	5278-1657:0300
	EST-HRS	HEAT DETECTOR - FIXED TEMP 135° AND RATE-OF RISE	7270-1657:0125
	EDWARDS SIGNALING 282B-PL	HEAT DETECTOR - FIXED TEMP 194° AND RATE-OF RISE	7270-1657:0109
MM	EST SIGA-MM1	MONITOR MODULE	7300-1657:0121
CM	EST SIGA-CR	CONTROL MODULE	7300-1657:0121
FACP	EST3X	(E) FIRE ALARM CONTROL PANEL W/ VOICE EVACUATION CAPABILITIES	7300-1657:0306
ANN	EST E-RLED-C	REMOTE ANNUNCIATOR	7120-1657:0254
FAPS	FIRE LITE FCPS-24FS6	FIRE ALARM POWER SUPPLY	7315-0075:0206

FIRE ALARM GENERAL NOTES

FIRE ALARM IN MODERNIZED PORTION OF THE BUILDING.

2. (E) FIRE ALARM CONTROL PANEL IS CAPABLE OF AUTOMATICALLY TESTING SMOKE DETECTORS AND PRINTING A REPORT OF THE TEST.

3. (E) FIRE ALARM CONTROL PANEL INCLUDES AUTOMATIC DIALING CAPABILITY FOR SENDING A SUPERVISORY SIGNAL, A TROUBLE SIGNAL, AND AN ALARM SIGNAL TO AN APPROVED SUPERVISING OFF-SITE MONITORING STATION IN ACCORDANCE WITH NFPA 72. THE SUPERVISING STATIONS SHALL BE LISTED AS EITHER UUFX (CENTRAL STATION) OR UUJS (REMOTE AND PROPRIETARY) BY UL, OR SHALL COMPLY WITH THE REQUIREMENTS OF STANDARD FM 3011. DIALER SHALL BE CAPABLE OF "GRABBING" A PHONE LINE FOR AN ALARM SIGNAL IF PHONE LINE IS ALREADY IN USE.

UPON COMPLETION OF FIRE ALARM SYSTEM REVISION, A SATISFACTORY TEST OF THE ENTIRE SYSTEM SHALL BE MADE WITH THE LOCAL FIRE MARSHALL AND THE PROJECT INSPECTOR OF

5. THE FIRE ALARM SYSTEM SHALL CONFORM TO THE CALIFORNIA BUILDING CODE, CALIFORNIA ELECTRICAL CODE, ARTICLE 760, AND THE CALIFORNIA FIRE CODE.

6. REVISION TO THE FIRE ALARM SYSTEM SHALL HAVE AUTOMATIC INITIATION DEVICES, AND FULL

7. PROVIDE "FIRE WATCH" DURING CONSTRUCTION WHEN EXISTING FIRE ALARM SYSTEM IF TURNED

8. THE FIRE ALARM WIRING SHALL BE RUN IN CONDUITS.

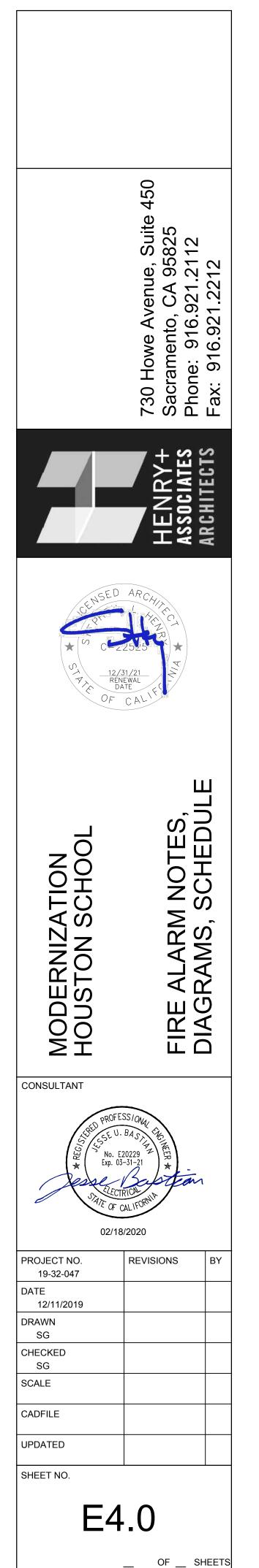
9. DO NOT START INSTALLATION OF THE FIRE ALARM SYSTEM UNTIL DETAILED PLANS, SPECIFICATIONS AND CALIFORNIA STATE FIRE MARSHAL LISTING NUMBERS FOR EACH COMPONENT OF THE SYSTEM HAVE BEEN APPROVED BY THE DEPARTMENT OF STATE ARCHITECTS.

10. PER NFPA 72 2016, SECTIONS 10.6.5.2.2 AND 10.6.5.2.3, CIRCUITS FOR FIRE ALARM SYSTEMS SHALL BE IDENTIFIED AS "FIRE ALARM / ECS CIRCUIT", AND THE DISCONNECTING MEANS FOR THE CIRCUIT SHALL HAVE A RED MARKING, BE ACCESSIBLE ONLY TO AUTHORIZED PERSONNEL AND SHALL BE MECHANICALLY PROTECTED. LOCATION OF THE DISCONNECT SHALL BE PERMANENTLY IDENTIFIED AT THE FIRE ALARM CONTROL UNIT. THE CIRCUITS FOR FIRE ALARM SYSTEMS SHALL BE DEDICATED TO FIRE ALARM EQUIPMENT.

11. A STAMPED SET OF APPROVED FIRE ALARM DRAWINGS SHALL BE ON THE JOB SITE AND USED FOR INSTALLATION. ANY DEVIATION FROM THE APPROVED PLANS, INCLUDING THE SUBSTITUTION OF DEVICES, SHALL BE APPROVED BY THE DEPARTMENT OF STATE ARCHITECTS.

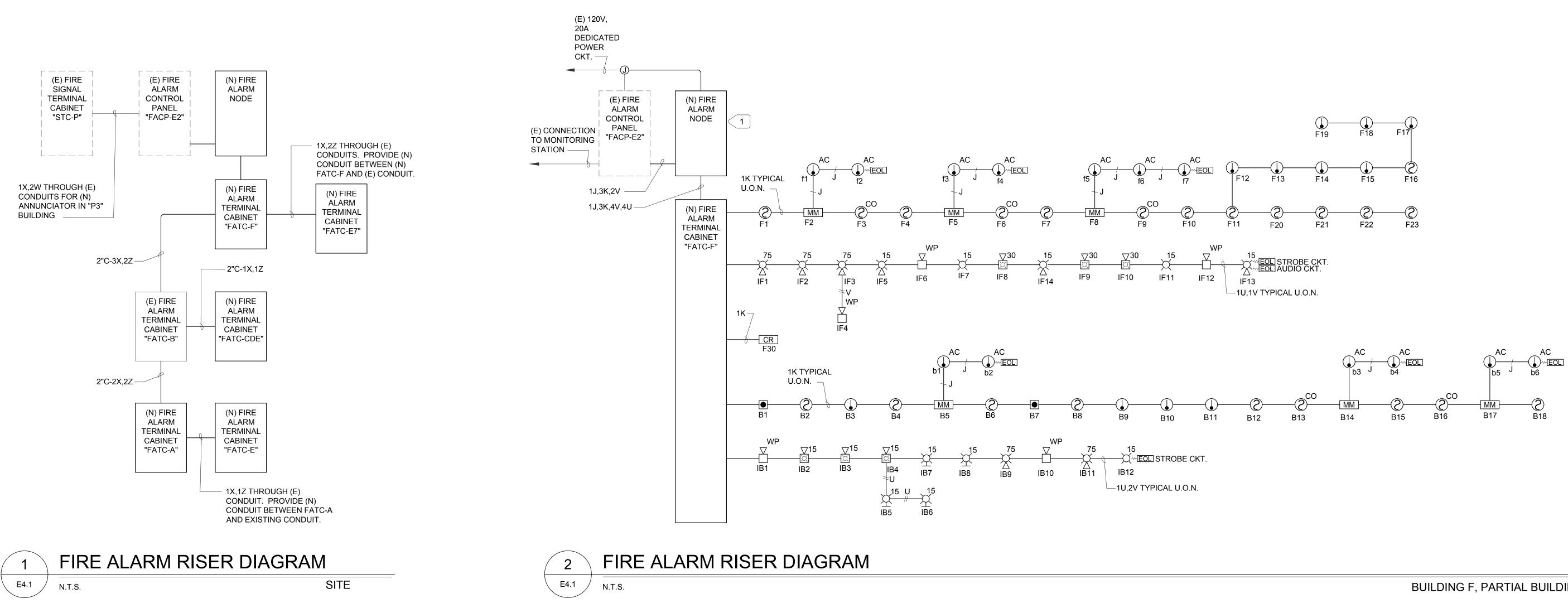
12. 13. A FIRE ALARM ACCEPTANCE TEST OF ALL DEVICES AND APPLIANCES, INCLUDING THE BACKUP BATTERY(IES), SHALL BE PERFORMED. ALL MANUFACTURER OPERATING RANGES SHALL BE MET. TESTING OF THE SUPERVISING STATION SIGNALS, AS WELL AS RELAY TO THE APPROPRIATE RESPONDING AGENCY, SHALL BE INCLUDED IN THE ACCEPTANCE TESTING. THE PROJECT INSPECTOR SHALL WITNESS THE ACCEPTANCE INSPECTION AND SHALL SIGN AS THE AHJ REPRESENTATIVE ON THE "SYSTEM RECORD OF COMPLETION" AT SECTION 12.3 (NFAP 72, FIGURE 7.8.2(a)). ALL SUPPLEMENTARY RECORDS SHALL BE ATTACHED AS APPLICABLE. THE PROJECT INSPECTOR SHALL VERIFY THAT THE FIRE ALARM SYSTEM IS IN SERVICE PRIOR TO COMPLETION OF THE "SYSTEM RECORD OF COMPLETION" FORM. ALL ORIGINAL DECANTATION SHALL BE RETAINED IN THE REQUIRED DOCUMENTATION CABINET (NFPA 72, 7,7,2).

13. A CERTIFICATE OF COMPLIANCE SHALL BE PREPARED BY THE INSTALLER AND GIVEN TO THE CALIFORNIA STATE FIRE MARSHAL UPON COMPLETION OF THE INSTALLATION.

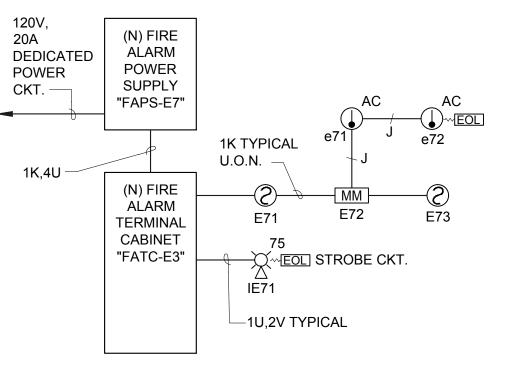




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3 E4.1





1)

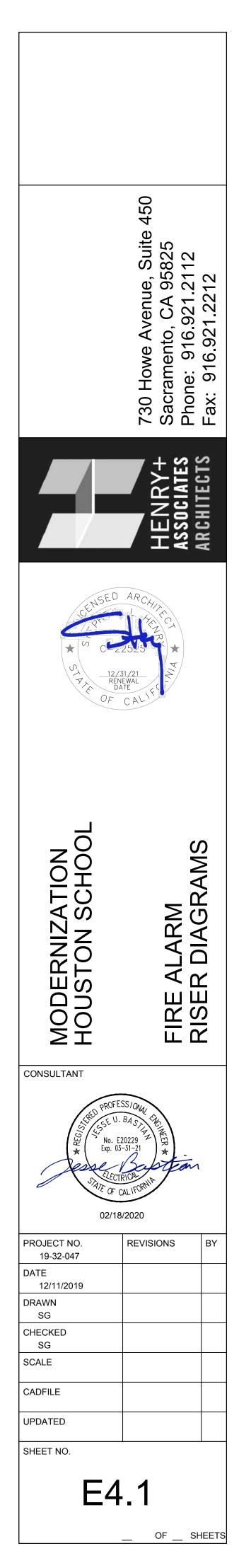
	FIRE ALARM C	CABLE SCHEDULE
J	NON-ADDRESABLE INITIATION	2#14 THWN
К	DATA	2 CONDUCTORS, 18AWG, - WEST PENN D980
U	NOTIFICATION - STROBE, HORN	2#12 THWN
V	NOTIFICATION - AUDIBLE (SPEAKER)	1 PAIR, 12AWG, SHIELDED, WEST PENN 60994B
W	NON-ADDRESABLE INITIATION - TRUNK	2#10 THWN
Х	DATA TRUNK	1 PAIR, 16AWG, SHIELDED, - WEST PENN AQC294
Y	NOTIFICATION - STROBE, HORN TRUNK	2#10 THWN
Z	NOTIFICATION - AUDIBLE (SPEAKER) TRUNK	1 PAIR, 12AWG, SHIELDED, - WEST PENN AQ296

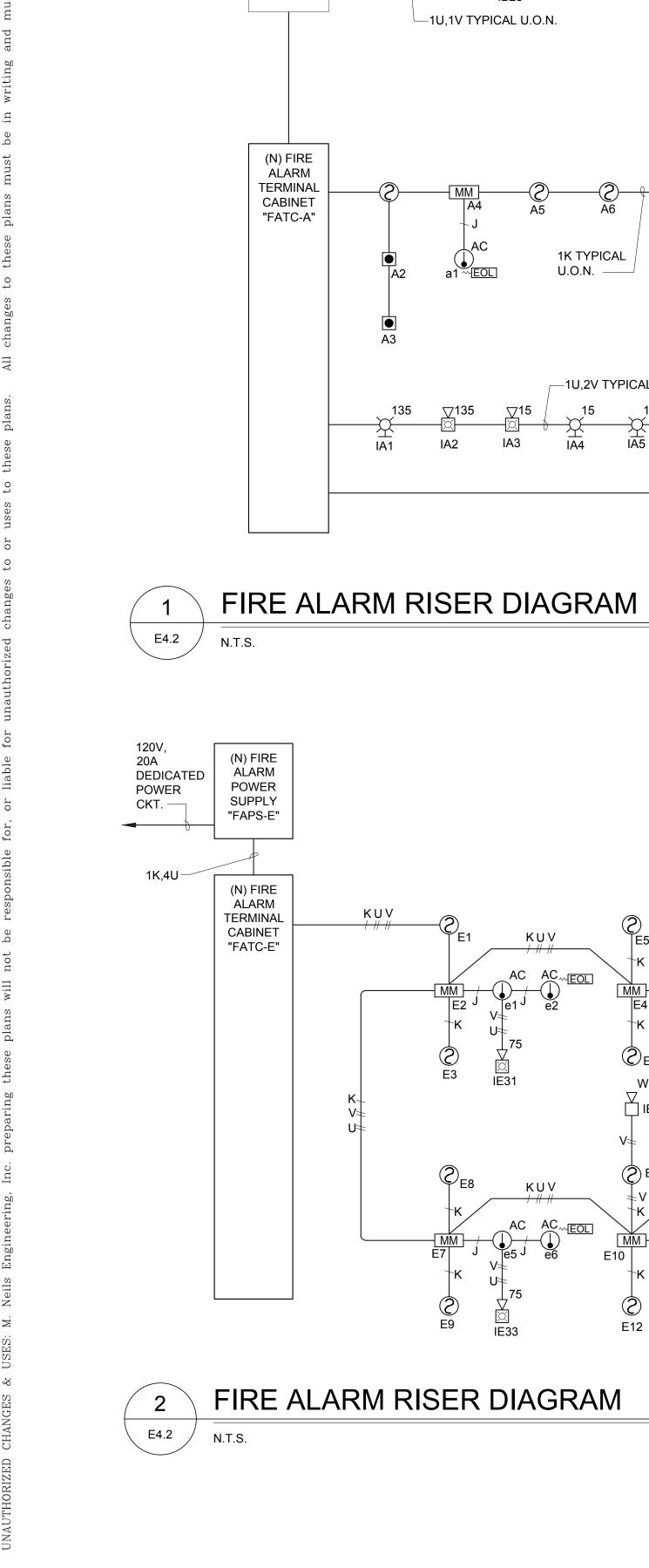
BUILDING F, PARTIAL BUILDING B

NUMBERED NOTES:

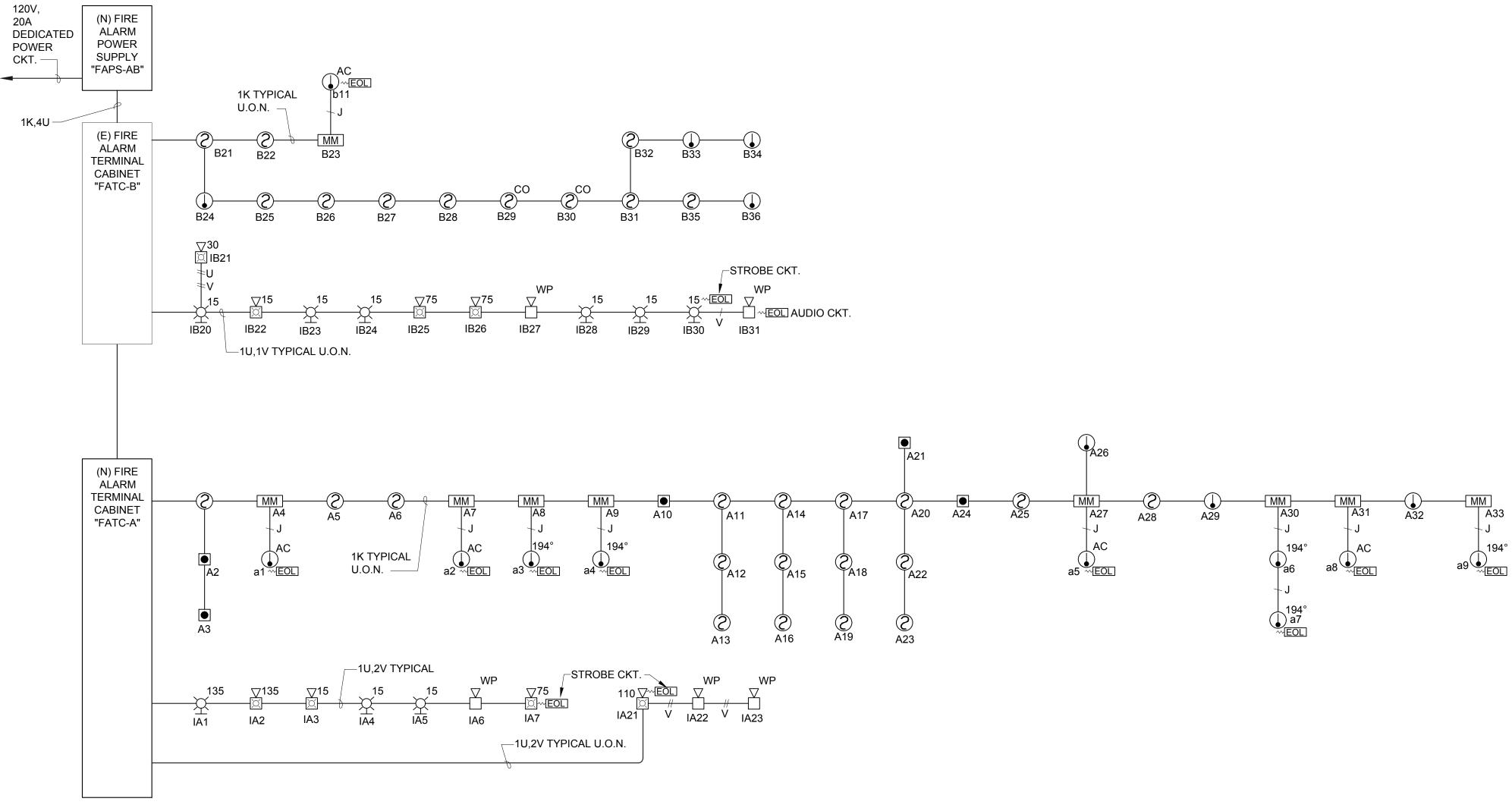
MOUNT (N) NODE ADJACENT TO (E) FIRE ALARM CONTROL PANEL, AT LOCATION OF REMOVED FIRE ALARM CONTROL PANEL "FACP-E1" (REFER TO DEMOLITION). (N) NODE CONSIST OF 3-CAB7 ENCLOSURE, PS10-4B POWER SUPPLY, SFS1-CPU, TWO (2) 3-SDC1 SIGNATURE DATA CIRCUIT CARD, 3X-NET NETWORK ADAPTER CARD, FOUR (4) 3-ZA40B AMPLIFIERS. EACH SIGNATURE DATA CARD ACCEPT 125 SMOKE/HEAT DETECTORS AND 125 MONITOR/RELAY MODULES. EACH AMPLIFIER IS RATED 40WATT AND HAVE 24VDC, 3.5AMP POWER CKT. FOR VISUAL NOTIFICATION DEVICES. PROVIDE ADDITIONAL ENCLOSURE FOR BATTERY. CONNECT POWER FOR (N) NODE TO (E) DEDICATED POWER CKT.





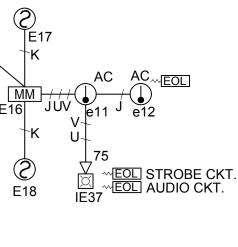


(N) FIRE



J	NON-ADDRESABLE INITIATION	2#14 THWN						
к	DATA	2 CONDUCTORS, 18AWG, - WEST PENN D980						
U	NOTIFICATION - STROBE, HORN	2#12 THWN						
V	NOTIFICATION - AUDIBLE (SPEAKER)	1 PAIR, 12AWG, SHIELDED, WEST PENN 60994B						
W	NON-ADDRESABLE INITIATION - TRUNK	2#10 THWN						
х	DATA TRUNK	1 PAIR, 16AWG, SHIELDED, - WEST PENN AQC294						
Y	NOTIFICATION - STROBE, HORN TRUNK	2#10 THWN						
Z	NOTIFICATION - AUDIBLE (SPEAKER) TRUNK	1 PAIR, 12AWG, SHIELDED, - WEST PENN AQ296						

BUILDING A, PARTIAL BUILDING B



EOL

2 | E14

<u>MM</u> E13

() E15

KUV

e10

~~EOL

AC

U≍

| 75 ↓ 75 ⊠ IE36

 \bigcirc E6

WP

∇ □ IE34

(2) E11

E10

() E12

IE32

ΚUV

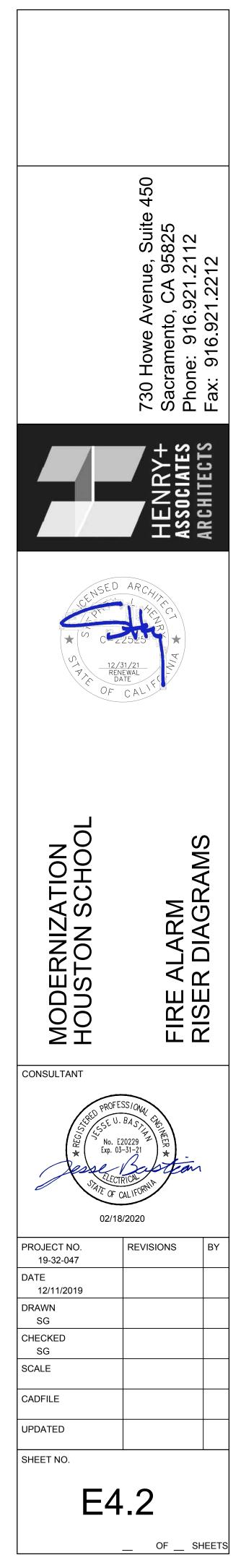
~~EOL

AC

___75

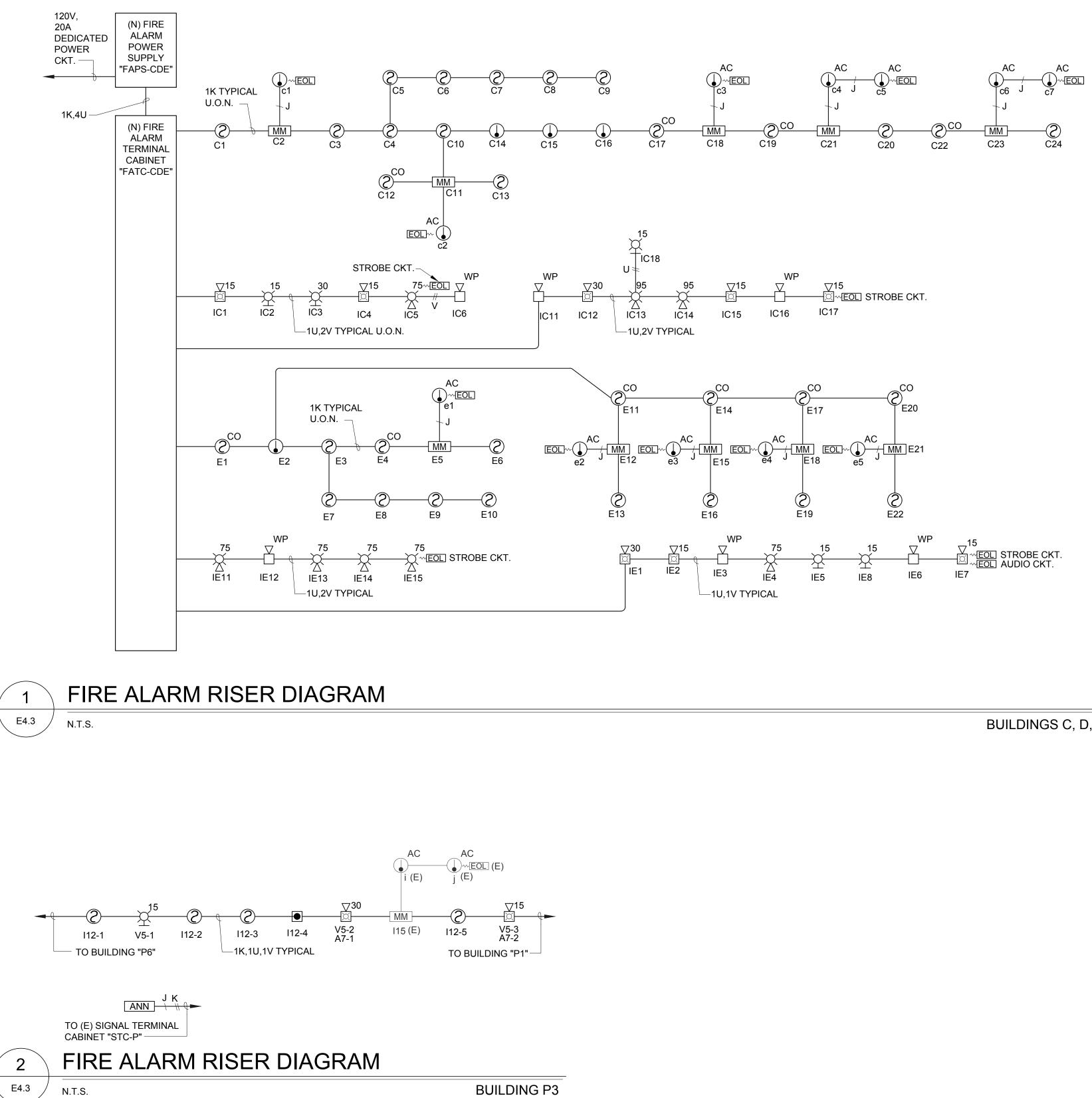
⊠ IE35

FIRE ALARM CABLE SCHEDULE



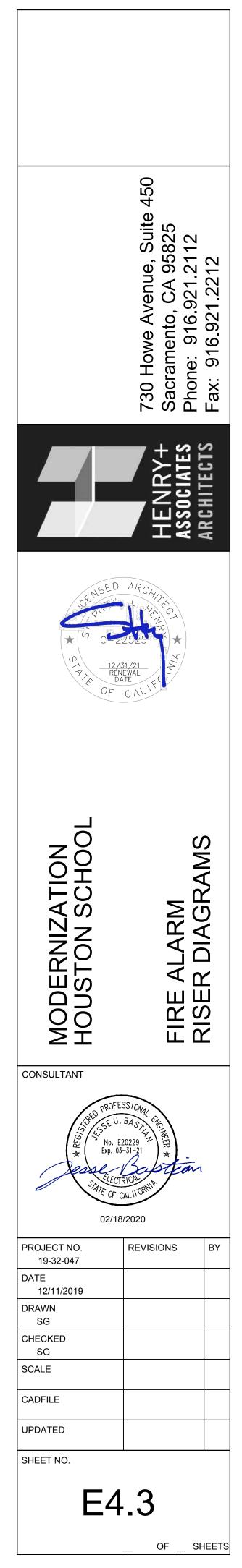


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FIRE ALARM CABLE SCHEDULE						
NON-ADDRESABLE INITIATION	2#14 THWN					
DATA	2 CONDUCTORS, 18AWG, - WEST PENN D980					
NOTIFICATION - STROBE, HORN	2#12 THWN					
NOTIFICATION - AUDIBLE (SPEAKER)	1 PAIR, 12AWG, SHIELDED, WEST PENN 60994B					
NON-ADDRESABLE INITIATION - TRUNK	2#10 THWN					
DATA TRUNK	1 PAIR, 16AWG, SHIELDED, - WEST PENN AQC294					
NOTIFICATION - STROBE, HORN TRUNK	2#10 THWN					
NOTIFICATION - AUDIBLE (SPEAKER) TRUNK	1 PAIR, 12AWG, SHIELDED, - WEST PENN AQ296					
	NON-ADDRESABLE INITIATION DATA NOTIFICATION - STROBE, HORN NOTIFICATION - AUDIBLE (SPEAKER) NON-ADDRESABLE INITIATION - TRUNK DATA TRUNK NOTIFICATION - STROBE, HORN TRUNK					

BUILDINGS C, D, E1, E2





M. NEILS Engineering, Inc. Electrical Engineers Lighting Designers 100 Howe Ave., Suite 235N Sacramento, CA 95825-8217 www.mneilsengineering.com Tel: (916) 923-4400 Fax: (916) 923-4410 PROJECT #: 19275.21

1 0.115 0.115A 0.115A FAPS CPU 1 0.065 0.065A 0.145 D 2 0.144 0.288A 0.204 0.408A STROBES 15cd 10 0.000 0.000A 0.061 1 0.088 0.088A 0.169 0.169A STROBES 15cd 10 0.000 0.000A 0.115 icd, (3) 30cd, (3) 30cd, (3) 30cd, (1) 0 0.062 0.248A 1.12 2.101 2.101A STROBES 75cd 3 0.000 0.000A 0.189 FIER 4 0.062 0.248A 1.12 4.480A STROBES 75cd 3 0.000 0.000A 0.249 FIER 4 0.062 0.248A 1.12 4.480A STROBES 95cd 0 0.000A 0.249 STANDBY 24 HOURS X 0.739A TOTAL 7.273A STROBES 135cd 2 0.000 0.000A 0.222 STANDBY 24 HOURS X 0.739A 17.736 AH STROBES	DESCRIPTION QUANTITY CURRENT SUBTOTAL CURRENT SUBTOTAL DESCRIPTION QUANTITY CURRENT SUBTOTAL CURRENT CPU 1 0.115 0.115 0.115 0.115 0.115 FAPS CPU 1 0.065 0.065 A 0.0145 DATA CKT, CARD 2 0.144 0.288 A 0.204 0.408 A STROBES 15cd 10 0.000 0.000 A 0.061 POW. SUPPLY 1 0.068 0.088 A 0.169 0.169 A STROBES 30cd 1 0.000 0.000A 0.169 STROBES (5) 75cd, (3) 30cd, (13) 30cd, (13) 15cd 1 0 0.000A 2.101 2.101 A STROBES 75cd 3 0.000 0.000A 0.189 3.27440A AMPUHER 4 0.062 0.248 A 1.12 4.480 A STROBES 95cd 0 0.000 A 0.024 0.249 .3.27440A AMPUHER 4 0.062 0.248 A 1.12 4.480 A STROBES 135cd 0 0.000 A 0.224	MPTION QUANTITY CURRENT SUBTOTAL O	DESCRIPTION QUANTITY CURRENT SUBTOTAL CURRENT SUBTOTAL DESCRIPTION QUANTITY CURRENT SUBTOTAL CURRENT CPU 1 0.115 0.115A 0.115 0.115A FAPS CPU 1 0.065 0.065A 0.145 DATA CKT. CARD 2 0.144 0.288A 0.204 0.408A STROBES 15cd 10 0.000 0.000A 0.061 POW. SUPPLY 1 0.088 0.088A 0.169 0.169A STROBES 30cd 1 0.000 0.000A 0.105 STROBES (5) 75cd, (3) 30cd, (13) 30cd, (13) 15cd 1 0 0.000A 2.101 2.101A STROBES 75cd 3 0.000 0.000A 0.189 3-ZA40A AMPLIFIER 4 0.062 0.248A 1.12 4.480 A STROBES 95cd 0 0.000A 0.249 GENERATIONER 24 HOURS X 0.739 A TOTAL 7.273 A STROBES 110cd 1 0.000 0.000A 0.22 GENERATIONER	BATTERY CALCULATION - ADDED NODE TO EXISTING FACE BATTERY CALCULATION - FIRE ALARM POWER SUPPLY FAPS		ITY CURRENT SUBTOTAL CURRENT SUBTOTAL DESCRIPTION QUANTITY CURRENT SUBTOTAL O.065 A O.065 A O.0145 O.0 0.144 0.288 A 0.204 0.408 A STROBES 15cd 10 0.000 A 0.000A 0.061 A 0.000A 0.000A 0.0105 A 0.000A 0.000A 0.0105 A 0.000A 0.000A 0.000A 0.000A	BATTERY CALCULATION - ADDED NODE TO EXISTING FACP BATTERY CALCULATION - FIRE ALARM POWER SUPPLY FAPS							STING FACE	•	DATTERT CALCU	A HON - F				
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AUDIO LOSS	AUDIO LOSS	AUDIO LOSS AUDIO LOSS	AMPLIFIER ALARM CURRENT LOAD IS SHOWN FOR MAXIMUM OUTPUT - 40WATT TOTAL 20% OFT 2.122 ATT - 0.424 ATT PROVIDED BATTERY = 2.546 - - - 0.424 ATT PROVIDED BATTERY = 7 - - - - 0.424 ATT AMPLIFIER ALARM CURRENT LOAD IS SHOWN FOR MAXIMUM OUTPUT - 40WATT - - - - - 2.546 PROVIDED BATTERY = 7 - <td< td=""><td>DESCRIPTION QUANTITY QUANTITY</td><td>ALARM 15 MIN X 7.273 A = 1.818 AH TOTAL 0.065 A 0.000 A 0.066 A</td><td>TOTAL 0.739 A TOTAL 7.273 A STROBES 110cd 1 0.000 0.000 A 0.22 0 24 HOURS X 0.739 A = 17.736 AH STROBES 135cd 2 0.000 0.000 A 0.3 0 15 MIN X 7.273 A = 1.818 AH TOTAL 0.065 A TOTAL 2 DEF 19.55425 AH = 3.911 AH STROBES 135cd 2 0.0065 A = 1.560 AF TOTAL 2.3.465 AH - 3.911 AH STROBES 20% OFF 2.122 AH = 0.562 AF PROVIDE BATTERIES 48 AH @ 24V SPARE 20% OFF 2.122 AH = 0.424 AF SHOWN FOR MAXIMUM OUTPUT - 40WATT - - - PROVIDED BATTERY - 7 AF</td><td>DESCRIPTION QUANTITY QUERENT SUBTOTAL CURRENT SUBTOTAL DESCRIPTION QUANTITY QUERENT SUBTOTAL CURRENT CPU 1 0.115 0.100 0.000A 0.000A 0.000A 0.105 STROBES (576cd (3) 300d, 11 0 0.000A 1.112 2.480A STROBES (576cd) 0 0.000 0.000A 0.222 STADBEY 1 0.739A 107AL 7.273A STROBES (576cd) 0 0.000 0.000A 0.222 STADBEY 24 HOURS X 0.739A 1 17736 AH STROBES (156cd)</td><td>SP</td><td></td><td></td><td></td><td>AND E1-</td><td>E6</td><td></td><td></td><td></td><td>NG B</td><td>PROVID</td><td></td><td></td><td><u>A</u></td></td<>	DESCRIPTION QUANTITY	ALARM 15 MIN X 7.273 A = 1.818 AH TOTAL 0.065 A 0.000 A 0.066 A	TOTAL 0.739 A TOTAL 7.273 A STROBES 110cd 1 0.000 0.000 A 0.22 0 24 HOURS X 0.739 A = 17.736 AH STROBES 135cd 2 0.000 0.000 A 0.3 0 15 MIN X 7.273 A = 1.818 AH TOTAL 0.065 A TOTAL 2 DEF 19.55425 AH = 3.911 AH STROBES 135cd 2 0.0065 A = 1.560 AF TOTAL 2.3.465 AH - 3.911 AH STROBES 20% OFF 2.122 AH = 0.562 AF PROVIDE BATTERIES 48 AH @ 24V SPARE 20% OFF 2.122 AH = 0.424 AF SHOWN FOR MAXIMUM OUTPUT - 40WATT - - - PROVIDED BATTERY - 7 AF	DESCRIPTION QUANTITY QUERENT SUBTOTAL CURRENT SUBTOTAL DESCRIPTION QUANTITY QUERENT SUBTOTAL CURRENT CPU 1 0.115 0.100 0.000A 0.000A 0.000A 0.105 STROBES (576cd (3) 300d, 11 0 0.000A 1.112 2.480A STROBES (576cd) 0 0.000 0.000A 0.222 STADBEY 1 0.739A 107AL 7.273A STROBES (576cd) 0 0.000 0.000A 0.222 STADBEY 24 HOURS X 0.739A 1 17736 AH STROBES (156cd)	SP				AND E1-	E6				NG B	PROVID			<u>A</u>
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TOTAL = 23.465 AH $ALARM 15 MIN X 2.247 A = 0.56$	$TOTAL = \frac{23.465}{4} \text{AH} $ ALARM 15 MIN X 2.247 A = 0.56			DESCRIPTION QUANTITY CURRENT SUBTOTAL CURRENT SUBTOTAL DESCRIPTION QUANTITY CURRENT SUBTOTAL CURRENT CPU 1 0.115 0.115 0.115 0.115 0.115 FAPS CPU 1 0.065 0.065 A 0.0145 DATA CKT. CARD 2 0.144 0.288 A 0.204 0.408 A STROBES 15cd 10 0.000 0.000 A 0.061 POW. SUPPLY 1 0.088 0.088 A 0.169 0.169 A STROBES 30cd 1 0.000 0.000A 0.105 STROBES (5) 75cd, (3) 30cd, (13) 30cd, (13) 15cd 1 0 0.000 A 2.101 2.101 A STROBES 75cd 3 0.000 A 0.189 3-ZA40A AMPLIFIER 4 0.062 0.248 A 1.12 4.480 A STROBES 95cd 0 0.000 A 0.249 TOTAL 0.739 A TOTAL 7.273 A STROBES 110cd 1 0.000 A 0.22	STANDBY 24 HOURS X 0.739 A = 17.736 AH STROBES 135cd 2 0.000 0.000 A	TOTAL 0.739 A TOTAL 7.273 A STROBES 110cd 1 0.000 0.000 A 0.22	DESCRIPTION QUANTITY CURRENT SUBTOTAL CURRENT SUBTOTAL CURRENT SUBTOTAL DESCRIPTION QUANTITY CURRENT SUBTOTAL CURRENT CPU 1 0.115 0.115 0.115 0.115 0.115 FAPS CPU 1 0.065 0.065A 0.145 DATA CKT. CARD 2 0.144 0.288A 0.204 0.408 A STROBES 15cd 10 0.000 0.000A 0.061 POW. SUPPLY 1 0.088 0.088 A 0.169 0.169 A STROBES 30cd 1 0.000 0.000A 0.189 STROBES (5) 75cd, (3) 30cd, (13) 30cd, (13) 15cd 1 0 0.000A 2.101 2.101 A STROBES 75cd 3 0.000 0.000A 0.189 3-ZA40A AMPLIFIER 4 0.062 0.248 A 1.12 4.480 A STROBES 95cd 0 0.000 A 0.249 3-ZA40A AMPLIFIER 4 0.062 0.248 A 1.12 4.480 A STROBES 110cd 1 0.000 A 0.22 </td <td></td> <td>ALARM</td> <td>I <u>1</u>5</td> <td>MINX</td> <td>7.273 A</td> <td>=</td> <td>1.818</td> <td>AH</td> <td></td> <td></td> <td>TOTAL</td> <td>0.065 A</td> <td>TOTAL</td> <td>ß</td>		ALARM	I <u>1</u> 5	MINX	7.273 A	=	1.818	AH			TOTAL	0.065 A	TOTAL	ß
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C	CARD	2	0.144	0.288 A		0.204	0.408 A	STROBES 15cd	10	0.000	0.000 A	0.061	
1 0.088 0.088 A 0.169 0.169 A STROBES 1000 1 0.000 0.000A 0.105 icd, (3) 30cd, 1 0 0.000 A 2.101 2.101 A STROBES 75cd 3 0.000 0.000A 0.189 FIER 4 0.062 0.248 A 1.12 4.480 A STROBES 75cd 3 0.000 0.000 A 0.249 TOTAL 0.739 A 1.12 4.480 A STROBES 110cd 1 0.000 0.000 A 0.249 STANDBY 24 HOURS X 0.739 A = 17.736 AH STROBES 135cd 2 0.000 0.000 A 0.33 ALARM 15 MIN X 7.273 A = 1.818 AH TOTAL 0.065 A TOTAL 0.065 A 1.56 SPARE 20% OFF 19.55425 AH = 3.911 AH STANDBY 24 HOURS X 0.065 A = 1.56 TOTAL 23.465 AH =	POW. SUPPLY 1 0.088 0.088A 0.169 0.169A STROBES 103C 1 0.000 0.000A 0.105 STROBES (5) 75cd, (3) 30cd, (13) 15cd 1 0 0.000A 2.101 2.101 2.101A STROBES 75cd 3 0.000 0.000A 0.189 3-ZA40A AMPLIFIER 4 0.062 0.248A 1.12 4.480A STROBES 75cd 3 0.000 0.000A 0.249 3-ZA40A AMPLIFIER 4 0.062 0.248A 1.12 4.480A STROBES 95cd 0 0.000 0.000A 0.249 3-ZA40A AMPLIFIER 4 0.062 0.248A 1.12 4.480A STROBES 95cd 0 0.000 0.000A 0.249 3-ZA40A AMPLIFIER 4 0.0739A TOTAL 7.273A STROBES 110cd 1 0.000 0.000A 0.22 STROBES 135cd 2 0.000 0.000A 1 0.065A 1 0.065A 1 1.56 ALLARM 19.55425 AH <td>SUPPLY 1 0.088 0.088 A 0.169 0.169 A STROBES 75cd 1 0.000 0.000A 0.105 SUPPLY 1 0 0.000 A 0.169 0.169 A STROBES 30cd 1 0.000 A 0.105 ES (5) 75cd, (3) 30cd, cd 1 0 0.000 A 2.101 2.101 A STROBES 75cd 3 0.000 0.000 A 0.189 DA AMPLIFIER 4 0.062 0.248 A 1.12 4.480 A STROBES 95cd 0 0.000 A 0.249 TOTAL 0.739 A TOTAL 7.273 A STROBES 110cd 1 0.000 A 0.22 STANDBY 24 HOURS X 0.739 A = 17.736 AH STROBES 135cd 2 0.000 A 0.22 STANDBY 24 HOURS X 0.739 A = 1.818 AH TOTAL TOTAL 0.065 A TOTAL SPARE 20% OFF 19.55425 AH 3.911 AH STANDBY 24 HOURS X 0.065 A = 1.5</td> <td>POW. SUPPLY 1 0.088 0.088A 0.169 0.169 0.169 A STROBES 30cd 1 0.000 0.000A 0.105 STROBES (5) 75cd, (3) 30cd, (13) 10cd 1 0 0.000A 2.101 2.101 2.101A STROBES 75cd 3 0.000 0.000A 0.189 3-ZA40A AMPLIFIER 4 0.062 0.248A 1.12 4.480 A STROBES 95cd 0 0.000 0.000A 0.249 3-ZA40A AMPLIFIER 4 0.062 0.248A 1.12 4.480 A STROBES 95cd 0 0.000A 0.000A 0.249 3-ZA40A AMPLIFIER 4 0.062 0.248A 1.12 4.480 A STROBES 95cd 0 0.000A 0.0249 3-ZA40A AMPLIFIER 4 0.062 0.739A TOTAL 7.273A STROBES 110cd 1 0.000 0.000A 0.224 STROBES 135cd 2 0.000 0.000A 4 0.33 0.33 0.33 0.33 0.34 0.35 ALA</td> <td>DESCRIPTION QUANTITY CURRENT SUBTOTAL CURRENT SUBTOTAL DESCRIPTION QUANTITY CURRENT SUBTOTAL CURRENT</td> <td>CPU 1 0.115 0.115 A 0.115 A FAPS CPU 1 0.065 A</td> <td>0.088 0.088 A 0.169 0.169 A STROBES 30cd 1 0.000 0.000A 0.105</td> <td>DESCRIPTION QUANTITY CURRENT SUBTOTAL CURRENT SUBTOTAL DESCRIPTION QUANTITY CURRENT SUBTOTAL CURRENT</td> <td></td> <td></td> <td>1</td> <td>0.115</td> <td>0.115 A</td> <td></td> <td>0.115</td> <td>0.115 A</td> <td>FAPS CPU</td> <td>1</td> <td>0.065</td> <td>0.065 A</td> <td>0.145</td> <td>+</td>	SUPPLY 1 0.088 0.088 A 0.169 0.169 A STROBES 75cd 1 0.000 0.000A 0.105 SUPPLY 1 0 0.000 A 0.169 0.169 A STROBES 30cd 1 0.000 A 0.105 ES (5) 75cd, (3) 30cd, cd 1 0 0.000 A 2.101 2.101 A STROBES 75cd 3 0.000 0.000 A 0.189 DA AMPLIFIER 4 0.062 0.248 A 1.12 4.480 A STROBES 95cd 0 0.000 A 0.249 TOTAL 0.739 A TOTAL 7.273 A STROBES 110cd 1 0.000 A 0.22 STANDBY 24 HOURS X 0.739 A = 17.736 AH STROBES 135cd 2 0.000 A 0.22 STANDBY 24 HOURS X 0.739 A = 1.818 AH TOTAL TOTAL 0.065 A TOTAL SPARE 20% OFF 19.55425 AH 3.911 AH STANDBY 24 HOURS X 0.065 A = 1.5	POW. SUPPLY 1 0.088 0.088A 0.169 0.169 0.169 A STROBES 30cd 1 0.000 0.000A 0.105 STROBES (5) 75cd, (3) 30cd, (13) 10cd 1 0 0.000A 2.101 2.101 2.101A STROBES 75cd 3 0.000 0.000A 0.189 3-ZA40A AMPLIFIER 4 0.062 0.248A 1.12 4.480 A STROBES 95cd 0 0.000 0.000A 0.249 3-ZA40A AMPLIFIER 4 0.062 0.248A 1.12 4.480 A STROBES 95cd 0 0.000A 0.000A 0.249 3-ZA40A AMPLIFIER 4 0.062 0.248A 1.12 4.480 A STROBES 95cd 0 0.000A 0.0249 3-ZA40A AMPLIFIER 4 0.062 0.739A TOTAL 7.273A STROBES 110cd 1 0.000 0.000A 0.224 STROBES 135cd 2 0.000 0.000A 4 0.33 0.33 0.33 0.33 0.34 0.35 ALA	DESCRIPTION QUANTITY CURRENT SUBTOTAL CURRENT SUBTOTAL DESCRIPTION QUANTITY CURRENT SUBTOTAL CURRENT	CPU 1 0.115 0.115 A 0.115 A FAPS CPU 1 0.065 A	0.088 0.088 A 0.169 0.169 A STROBES 30cd 1 0.000 0.000A 0.105	DESCRIPTION QUANTITY CURRENT SUBTOTAL CURRENT SUBTOTAL DESCRIPTION QUANTITY CURRENT SUBTOTAL CURRENT			1	0.115	0.115 A		0.115	0.115 A	FAPS CPU	1	0.065	0.065 A	0.145	+
D 2 0.144 0.288 A 0.204 0.408 A STROBES 15cd 10 0.000 0.000 A 0.061 1 0.088 0.088 A 0.169 0.169 A STROBES 30cd 1 0.000 0.000 A 0.105 icd, (3) 30cd, 1 0 0.000 A 2.101 2.101 A STROBES 30cd 1 0.000 0.000 A 0.189 FIER 4 0.062 0.248 A 1.12 4.480 A STROBES 95cd 0 0.000 A 0.249 FIER 4 0.062 0.248 A 1.12 4.480 A STROBES 95cd 0 0.000 A 0.249 TOTAL 0.739 A TOTAL 7.273 A STROBES 135cd 2 0.000 A 0.22 STANDBY 24 HOURS X 0.739 A 17.736 AH STROBES 135cd 2 0.000 A 0.33 ALARM 15 MIN X 7.273 A 1.818 AH TOTAL TOTAL 0.065 A TOTAL SPARE 20% OF	DATA CKT. CARD 2 0.144 0.288 A 0.204 0.408 A STROBES 15cd 10 0.000 0.000 A 0.061 POW. SUPPLY 1 0.088 0.088 A 0.169 0.169 A STROBES 30cd 1 0.000 0.000 A 0.105 STROBES (5) 75cd, (3) 30cd, (13) 15cd 1 0 0.000 A 2.101 2.101 A STROBES 30cd 1 0.000 0.000A 0.189 3-ZA40A AMPLIFIER 4 0.062 0.248 A 1.12 4.480 A STROBES 95cd 0 0.000 A 0.249 3-ZA40A AMPLIFIER 4 0.062 0.248 A 1.12 4.480 A STROBES 95cd 0 0.000 A 0.249 3-ZA40A AMPLIFIER 4 0.062 0.248 A 1.12 4.480 A STROBES 110cd 1 0.000 A 0.222 STANDBY 24 HOURS X 0.739 A = 17.736 AH STROBES 135cd 2 0.000 A 0.33 ALARM 15 MIN X 7.273 A = <td>2KT. CARD 2 0.144 0.288 A 0.204 0.408 A STROBES 15cd 10 0.000 0.000 A 0.061 SUPPLY 1 0.088 0.088 A 0.169 0.169 A STROBES 30cd 1 0.000 0.000 A 0.105 SUPPLY 1 0.088 0.088 A 0.169 0.169 A STROBES 30cd 1 0.000 0.000A 0.105 ES (5) 75cd, (3) 30cd, cd 1 0 0.000 A 2.101 2.101 A STROBES 75cd 3 0.000 0.000A 0.189 DA AMPLIFIER 4 0.062 0.248 A 1.12 4.480 A STROBES 95cd 0 0.000 A 0.249 TOTAL 0.739 A TOTAL 7.273 A STROBES 110cd 1 0.000 A 0.22 STANDBY 24 HOURS X 0.739 A 17.736 AH STROBES 135cd 2 0.000 A 0.3 ALARM 15 MIN X 7.273 A 1.818 AH TOTAL TOTAL 0.065 A <</td> <td>DATA CKT. CARD 2 0.144 0.288 A 0.204 0.408 A STROBES 15cd 10 0.000 0.000 A 0.061 POW. SUPPLY 1 0.088 0.088 A 0.169 0.169 A STROBES 30cd 1 0.000 0.000 A 0.105 STROBES (5) 75cd, (3) 30cd, (13) 30cd, (13) 15cd 1 0 0.000 A 2.101 2.101 A STROBES 75cd 3 0.000 0.000A 0.189 3-ZA40A AMPLIFIER 4 0.062 0.248 A 1.12 4.480 A STROBES 95cd 0 0.000 A 0.249 3-ZA40A AMPLIFIER 4 0.062 0.248 A 1.12 4.480 A STROBES 95cd 0 0.000 A 0.249 3-ZA40A AMPLIFIER 4 0.062 0.248 A 1.12 4.480 A STROBES 95cd 0 0.000 A 0.249 3-ZA40A AMPLIFIER 4 0.062 0.248 A 1.12 4.480 A STROBES 110cd 1 0.000 A 0.22 STANDBY 24 HOURS X 0.739 A<</td> <td></td> <td></td> <td>0.144 0.288 A 0.204 0.408 A STROBES 15cd 10 0.000 0.000 A 0.061 0.088 0.088 A 0.169 A STROBES 30cd 1 0.000 0.000A 0.105</td> <td></td> <td>UPU</td> <td>// 1</td> <td></td> <td>-</td>	2KT. CARD 2 0.144 0.288 A 0.204 0.408 A STROBES 15cd 10 0.000 0.000 A 0.061 SUPPLY 1 0.088 0.088 A 0.169 0.169 A STROBES 30cd 1 0.000 0.000 A 0.105 SUPPLY 1 0.088 0.088 A 0.169 0.169 A STROBES 30cd 1 0.000 0.000A 0.105 ES (5) 75cd, (3) 30cd, cd 1 0 0.000 A 2.101 2.101 A STROBES 75cd 3 0.000 0.000A 0.189 DA AMPLIFIER 4 0.062 0.248 A 1.12 4.480 A STROBES 95cd 0 0.000 A 0.249 TOTAL 0.739 A TOTAL 7.273 A STROBES 110cd 1 0.000 A 0.22 STANDBY 24 HOURS X 0.739 A 17.736 AH STROBES 135cd 2 0.000 A 0.3 ALARM 15 MIN X 7.273 A 1.818 AH TOTAL TOTAL 0.065 A <	DATA CKT. CARD 2 0.144 0.288 A 0.204 0.408 A STROBES 15cd 10 0.000 0.000 A 0.061 POW. SUPPLY 1 0.088 0.088 A 0.169 0.169 A STROBES 30cd 1 0.000 0.000 A 0.105 STROBES (5) 75cd, (3) 30cd, (13) 30cd, (13) 15cd 1 0 0.000 A 2.101 2.101 A STROBES 75cd 3 0.000 0.000A 0.189 3-ZA40A AMPLIFIER 4 0.062 0.248 A 1.12 4.480 A STROBES 95cd 0 0.000 A 0.249 3-ZA40A AMPLIFIER 4 0.062 0.248 A 1.12 4.480 A STROBES 95cd 0 0.000 A 0.249 3-ZA40A AMPLIFIER 4 0.062 0.248 A 1.12 4.480 A STROBES 95cd 0 0.000 A 0.249 3-ZA40A AMPLIFIER 4 0.062 0.248 A 1.12 4.480 A STROBES 110cd 1 0.000 A 0.22 STANDBY 24 HOURS X 0.739 A<			0.144 0.288 A 0.204 0.408 A STROBES 15cd 10 0.000 0.000 A 0.061 0.088 0.088 A 0.169 A STROBES 30cd 1 0.000 0.000A 0.105		UPU	// 1												-
1 0.115 0.115A 0.115 0.115A FAPS CPU 1 0.065 0.065A 0.145 D 2 0.144 0.288A 0.204 0.408A STROBES 15cd 10 0.000 0.000A 0.061 1 0.088 0.088A 0.169 0.169A STROBES 30cd 1 0.000 0.000A 0.105 icd, (3) 30cd, 1 0 0.000A 2.101 2.101A STROBES 75cd 3 0.000 0.000A 0.189 FIER 4 0.062 0.248A 1.12 4.480A STROBES 95cd 0 0.000 0.000A 0.249 FIER 4 0.062 0.248A 1.12 4.480A STROBES 95cd 0 0.000A 0.249 STANDBY 24 HOURS X 0.739 A = 17.736 AH STROBES 135cd 2 0.000 0.000 A 0.222 STANDBY 24 HOURS X 0.739 A = 17.736 AH STROBES 135cd 2	CPU 1 0.115 0.115A 0.115 0.115A FAPS CPU 1 0.065 0.065A 0.145 DATA CKT. CARD 2 0.144 0.288A 0.204 0.408A STROBES 15cd 10 0.000 0.000A 0.061 POW. SUPPLY 1 0.088 0.088A 0.169 0.169A STROBES 30cd 1 0.000 0.000A 0.105 STROBES (5) 75cd, (3) 30cd, (13) 10cd, (13) 15cd 1 0 0.000A 2.101 2.101A STROBES 75cd 3 0.000 0.000A 0.189 3.ZA40A AMPLIFIER 4 0.062 0.248A 1.12 4.480A STROBES 95cd 0 0.000A 0.2249 STANDBY 24 HOURS X 0.739A TOTAL 7.273A STROBES 135cd 2 0.000 0.000A 0.2249 STANDBY 24 HOURS X 0.739A 17.736 H STROBES 135cd 2 0.000 0.000A 0.33 ALARM 15 MIN X	1 0.115 0.115 A 0.115 A 0.115 A FAPS CPU 1 0.065 0.065 A 0.145 2KT. CARD 2 0.144 0.288 A 0.204 0.408 A STROBES 15cd 10 0.000 0.000 A 0.061 SUPPLY 1 0.088 0.088 A 0.169 0.169 A STROBES 15cd 10 0.000 0.000 A 0.061 SUPPLY 1 0.088 0.088 A 0.169 0.169 A STROBES 30cd 1 0.000 0.000A 0.105 SUPPLY 1 0.088 0.088 A 0.169 0.169 A STROBES 30cd 1 0.000 0.000A 0.105 Cd 1 0 0.000 A 2.101 2.101 A STROBES 95cd 3 0.000 0.000A 0.249 AAMPLIFIER 4 0.062 0.248 A 1.12 4.480 A STROBES 95cd 0 0.000 A 0.22 STANDBY 24 HOURS X 0.739 A = 17.736 AH STROBES 135cd 2 0.000 A 0.022 STANDBY	CPU 1 0.115 0.115A 0.115 0.115A FAPS CPU 1 0.065 0.065A 0.145 DATA CKT. CARD 2 0.144 0.288A 0.204 0.408A STROBES 15cd 10 0.000 0.000A 0.061 POW. SUPPLY 1 0.088 0.088A 0.169 0.169A STROBES 30cd 1 0.000 0.000A 0.105 STROBES (5) 75cd, (3) 30cd, (13) 15cd 0 0.000A 2.101 2.101A STROBES 75cd 3 0.000 0.000A 0.189 3.ZA40A AMPLIFIER 4 0.062 0.248A 1.12 4.480A STROBES 95cd 0 0.000A 0.249 3.ZA40A AMPLIFIER 4 0.062 0.248A 1.12 4.480A STROBES 95cd 0 0.000A 0.249 STANDBY 24 HOURS X 0.739A 17.736 AH STROBES 110cd 1 0.000 0.000A 0.33 ALARM 15 MIN X 7.273A 1.818	STANDBY ALARM STANDBY ALARM		0.115 0.115 A 0.115 A 0.115 A FAPS CPU 1 0.065 A 0.065 A 0.145 0.144 0.288 A 0.204 0.408 A STROBES 15cd 10 0.000 A 0.001 A 0.061 0.088 0.088 A 0.169 A STROBES 30cd 1 0.000 A 0.000A 0.105)N	QUANTITY		SUBTOTA	L		SUBTOTAL	DESCRIPTION	QUANTITY		SUBTOTAL		

	489	Enter distance (in feet)	655	E
	-0.2	dB loss	-0.4	
Γ		ADJUST SPEAKERS TO 1 WATT OUTP	UT	ADJUS
		VOLTAGE DROP (TION
		LAST DEVICE - WORS	I CASE S	CENARIO
		VISUAL CIRCUI	Г IA21 - IA	23
		ACCEPTABLE LIMIT: NOT TO EX	CEED 2.04V (10	0%*20.4√)
			(,
		OHMS = (#14 FT * 3.07/1000 + #12 FT * 1	.93/1000+ #10 F	T * 1.21/1000) *2

AUDIO LOSS SPEAKER CIRCUIT BUILDINGS C, D1, D2, E Audio Wiring Distance

Enter wire guage

Enter audio voltage (Vrms)

Enter wire resistance (ohms/ft) Enter speaker load (in watts)

DESCRIPTION

FAPS CPU

STROBES 15cd

STROBES 30cd STROBES 75cd

STROBES 95cd

STROBES 135cd

DEVICE	TO DEVICE #	CKT. LENGTH FT	WIRE SIZE. #12	RESISTANCE OF WIRE (OHM)
				(OHM)
FAPS-AP	IA23	195	0.00193	0.753

(1)110cd = 0.220A

VOLTAGE DROP CALCULATION LAST DEVICE - WORST CASE SCENARIO VISUAL CIRCUIT IC11-IC17 ACCEPTABLE LIMIT: NOT TO EXCEED 2.04V (10%*20.4V)

	OHMS =	(#14 FT * 3.	.07/1000 + #12	2 FT * 1.93/1000+	#10 FT * 1.21/1000)	*2
DEVICE	TO DEVICE #	CKT. LENGTH FT	WIRE SIZE. #12	RESISTANCE OF WIRE (OHM)	LOAD TOTAL	V
				(OHM)		
FAPS-CDE	IC17	185	0.00193	0.714	0.798 A	
(2) 15cd,	(1) 30cd, (2) 95c	d = 0.798				

VOLTAGE DROP CALCULATION LAST DEVICE - WORST CASE SCENARIO VISUAL CIRCUIT IF1-IF13 ACCEPTABLE LIMIT: NOT TO EXCEED 2.04V (10%*20.4V)

ОНМ	1S = (#14 FT * 3	3.07/1000 + #12	2 FT * 1.93/1000+ #10 FT * 1.21/1000) *2	
	CKT.	WIRE SIZE.	RESISTANCE	

DEVICE	TO DEVICE #	LENGTH FT	#12	OF WIRE (OHM)	LOAD TOTAL
				(OHM)	
(N) NODE	IF13	195	0.00193	0.753	1.142 A

(4)15cd, (3)30cd, (3)75cd = 1.142A

(OHM)

FAPS-AP IA17 230 0.00193 0.888 0.984 A 0.874 V

(3)15cd, (1)75cd, (2)135cd = 0.984A

VOLTAGE DROP CALCULATION LAST DEVICE - WORST CASE SCENARIO VISUAL CIRCUIT IC1-IC5 ACCEPTABLE LIMIT: NOT TO EXCEED 2.04V (10%*20.4V)

OHMS = (#14 FT * 3 07/1000 + #12 FT * 1 93/1000+ #10 FT * 1 21/1000) *2

		CKT. LENGTH	WIRE SIZE.	RESISTANCE OF WIRE	LOAD TOTAL	ACCUM.
DEVICE	TO DEVICE #	FT	#12	(OHM)		VOLTAGE DROP
				(OHM)		
FAPS-CDE	IC5	160	0.00193	0.618	0.489 A	0.302 V

VOLTAGE DROP CALCULATION LAST DEVICE - WORST CASE SCENARIO VISUAL CIRCUIT IE31 - IE37 ACCEPTABLE LIMIT: NOT TO EXCEED 2.04V (10%*20.4V)

OHMS = (#14 FT * 3.07/1000 + #12 FT * 1.93/1000+ #10 FT * 1.21/1000) *2

DEVICE	TO DEVICE #	CKT. LENGTH FT	WIRE SIZE. #12	RESISTANCE OF WIRE (OHM)	LOAD TOTAL	ACCUM. VOLTAGE DROP	
				(OHM)			
FAPS-E	IE37	240	0.00193	0.926	1.134 A	1.051 V	

(6)75cd = 1.134A

BATTERY CALCU	LATION -	- FIRE ALA	RM POV	VER SUI	PPLY FAPS	-CDE		BATTERY	CALCULATIO	N - FIRE	ALARM	POWER S	UPPLY FAP	S-E	BATTERY CA	CULAT	ON - FI	RE ALARI	M POWER S	UPPLY FAP	S-E7	BATTERY CALCULATIO	ON - EXIST	ING FIRE	ALARM POW	ER SUPPLY	FAPS-
DESCRIPTION	QUANT	STANE	BY NT SUB	TOTAL	ALARM CURRENT	SUBTOTAL		DESCRIPTION	QUAN		ANDBY IRRENT S	UBTOTAL	ALARM CURRENT	SUBTOTAL	DESCRIPTION	QU	IANTITY	STANDBY CURRENT	SUBTOTAL	ALARM CURRENT	SUBTOTAL	DESCRIPTION	QUANTITY	STANDBY CURRENT	SUBTOTAL	ALARM CURRENT	SUBTOT
FAPS CPU	1	0.06	5 <u>0.0</u>	065 A	0.145	0.145 A		FAPS CPU	1	(0.065	0.065 A	0.145	0.145 A	FAPS CPU		1	0.065	0.065 A	0.145	0.145 A	FAPS CPU	1	0.065	0.065 A	0.145	0.145
STROBES 15cd	12	0.00	0.0	000 A	0.061	0.732 A	ļ	STROBES 15cd	0) (0.000	0.000 A	0.061	0.000 A	STROBES 15cd		0	0.000	0.000 A	0.061	0.000 A	STROBES 15cd (2 EXISTING + 2 NEW)	4	0.000	0.000 A	0.061	0.244
STROBES 30cd	4	0.00	0.0	000A	0.105	0.420 A		STROBES 30cd	0) (0.000	0.000A	0.105	0.000 A	STROBES 30cd		0	0.000	0.000A	0.105	0.000 A	STROBES 30cd (1 NEW)	1	0.000	0.000A	0.105	0.105
STROBES 75cd	2	0.00	0.0	000A	0.189	0.378 A		STROBES 75cd	6	; (0.000	0.000A	0.189	1.134 A	STROBES 75cd		1	0.000	0.000A	0.189	0.189 A	STROBES 75cd (1 REMOVED)	4	0.000	0.000A	0.189	0.756
STROBES 95cd	4	0.00	0.0	000 A	0.249	0.996 A	į	STROBES 95cd	0) (0.000	0.000 A	0.249	0.000 A	STROBES 95cd		0	0.000	0.000 A	0.249	0.000 A	STROBES 95cd	0	0.000	0.000 A	0.249	0.000
STROBES 110cd	0	0.00	0.0	000 A	0.22	0.000 A		STROBES 110cd	0) (0.000	0.000 A	0.22	0.000 A	STROBES 110cd		0	0.000	0.000 A	0.22	0.000 A	STROBES 110cd	0	0.000	0.000 A	0.22	0.000
STROBES 135cd	0	0.00	0.0	000 A	0.3	0.000 A		STROBES 135cd	0) (0.000	0.000 A	0.3	0.000 A	STROBES 135cd		0	0.000	0.000 A	0.3	0.000 A	STROBES 135cd	0	0.000	0.000 A	0.3	0.000
		TOTA	L 0.0	065 A	TOTAL	2.671 A				Т	OTAL	0.065 A	TOTAL	1.279 A				TOTAL	0.065 A	TOTAL	0.334 A			TOTAL	0.065 A	TOTAL	1.250
STANDE	3Y	24 HOUR	X 0.0	065 A =	1.56	0 AH			STANDBY	24 HC	URS X	0.065 A =	1.560	0 AH	STA	NDBY	24	HOURS X	0.065 A =	= 1.560	AH	STANDBY	24	HOURS X	0.065 A =	1.560	AH
ALAR	M	15 MI	X 2.6	671 A =	0.66	8 AH			ALARM	15	MIN X	1.279 A =	0.320	0 AH		LARM	15	MIN X	0.334 A	= 0.084	4 AH	ALARM	1 15	MIN X	1.250 A =	0.313	AH
SPAF	RE 20% (OFF 2	228 AH	=	0.44	6 AH			SPARE 20%	OFF	1.880 AI	н =	0.376	6 AH		PARE 20	0% OFF	1.644	AH :	= 0.329	AH	SPARE	20% OFF	1.873	AH =	0.375	AH
				TOTAL =	2.67	3 AH						TOTAL =	2.256	6 AH					TOTAL :	= 1.972	2 AH				TOTAL =	2.247	AH
		PRO	VIDED BA	TTERY =		7 AH @ 24V					PROVIDED	BATTERY =	7	7 AH @ 24V				PROVID	ED BATTERY :	= 7	7 AH @ 24V			EXIST	NG BATTERY =	7	AH @ 2
																						INSTALLED AS PART OF	DSA APPR	OVED PROJ	ECT #02-117209	DATED 04/11	/2019

		AUDIO LOSS	
D	2, E	SPEAKER CIRCUIT BUILDING F A	ND E7
		Audio Wiring Distance	
	25	Enter audio voltage (Vrms)	25
	12	Enter wire guage	12
	0.00198	Enter wire resistance (ohms/ft)	0.00198
	24	Enter speaker load (in watts)	13
	655	Enter distance (in feet)	570
	-0.4	dB loss	-0.2
T		ADJUST SPEAKERS TO 1 WATT OUT	ſPUT
_			

ACCUM.

VOLTAGE DROP

0.166 V

ACCUM.

VOLTAGE DROP

0.570 V

ACCUM.

VOLTAGE DROP

0.860 V

LOAD TOTAL

0.220 A

AUDIO LOSS							
EXISTING SPEAKER CIRC	UIT A1-A8						
Audio Wiring Dista	ance						
Enter audio voltage (Vrms)	25						
Enter wire guage	12						
Enter wire resistance (ohms/ft)	0.00198						
Enter speaker load (in watts)	18						
Enter distance (in feet)	535						
dB loss	-0.3						
ADJUST SPEAKERS TO 2 WATT OUTPUT							

INSTALLED AS PART OF DSA APPROVED PROJECT #02-117209, DATED 04/11/2019

VOLTAGE DROP CALCULATION
LAST DEVICE - WORST CASE SCENARIO
VISUAL CIRCUIT IB1-IB12
ACCEPTABLE LIMIT: NOT TO EXCEED 2.04V (10%*20.4V)
OHMS = (#14 FT * 3.07/1000 + #12 FT * 1.93/1000+ #10 FT * 1.21/1000) *2
CKT. WIRE SIZE, RESISTANCE
LENGTH OF WIRE LOAD TOTAL

(OHM) (N) NODE IB12 225 0.00193 0.869 0.898 A 0.780 V	DEVICE	TO DEVICE #	CKT. LENGTH FT	WIRE SIZE. #12	RESISTANCE OF WIRE (OHM)	LOAD TOTAL	ACCUM. VOLTAGE DROP
(N) NODE IB12 225 0.00193 0.869 0.898 A 0.780 V					(OHM)		
	(N) NODE	IB12	225	0.00193	0.869	0.898 A	0.780 V

(8)15cd, (2)75cd = 0.898A

VOLTAGE DROP CALCULATION LAST DEVICE - WORST CASE SCENARIO VISUAL CIRCUIT IE1-IE7 ACCEPTABLE LIMIT: NOT TO EXCEED 2.04V (10%*20.4V)

OHMS = (#14 FT * 3.07/1000 + #12 FT * 1.93/1000+ #10 FT * 1.21/1000) *2

		CKT. LENGTH	WIRE SIZE.	RESISTANCE OF WIRE	LOAD TOTAL	ACCUM.
DEVICE	TO DEVICE #	FT	#12	(OHM)	LOAD TOTAL	VOLTAGE DROP
				(OHM)		
FAPS-CDE	IE7	205	0.00193	0.791	0.489 A	0.387 V

VOLTAGE DROP CALCULATION LAST DEVICE - WORST CASE SCENARIO VISUAL CIRCUIT IE71

ACCEPTABLE LIMIT: NOT TO EXCEED 2.04V (10%*20.4V)

	OHMS =	(#14 FT * 3.	.07/1000 + #12	2 FT * 1.93/1000+	+ #10 FT * 1.21/1000) *	2
DEVICE	TO DEVICE #	CKT. LENGTH FT	WIRE SIZE. #12	RESISTANCE OF WIRE (OHM)	LOAD TOTAL	ACCUM. VOLTAGE DROP
				(OHM)		
FAPS-E7	IE71	65	0.00193	0.251	0.189 A	0.047 V

(1)75cd = 0.189A

VOLTAGE DROP CALCULATION LAST DEVICE - WORST CASE SCENARIO VISUAL CIRCUIT IB20 - IB31 ACCEPTABLE LIMIT: NOT TO EXCEED 2.04V (10%*20.4V)

CKT.

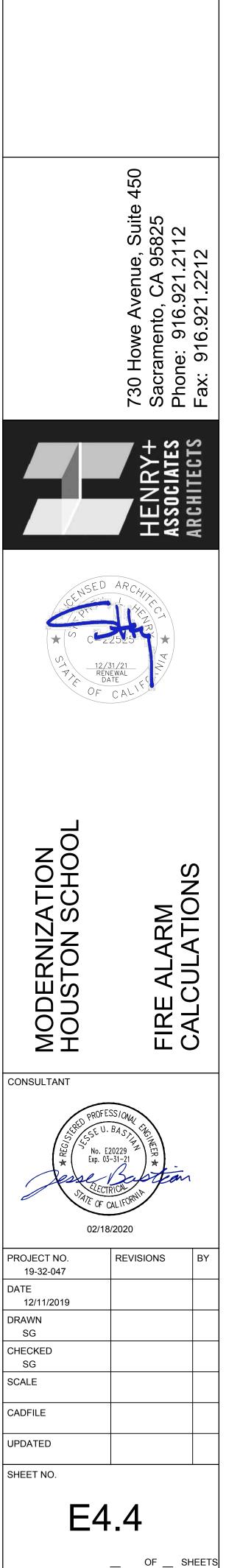
LENGTH DEVICE TO DEVICE # FT

FAPS-AP IB31 185

(8)15cd, (2)75cd = 0.898A

	A	T DEVI VIS	CE - WC UAL CIF	CUIT IE11	E SCENARIO -IE15	-
DEVICE	TO DEVICE #	CKT. LENGTH FT	-	RESISTANCE OF WIRE (OHM) (OHM)	LOAD TOTAL	ACCUM. VOLTAGE DROP
FAPS-CDE	IE15	225	0.00193	0.869	0.756 A	0.657 V
(4) 75cd =	0.756A					

		EXIS	TING VIS	SUAL CIRC		
					#10 FT * 1.21/1000)	*2
		CKT. LENGTH		RESISTANCE OF WIRE	LOAD TOTAL	ACCUM.
DEVICE	TO DEVICE #	FT	#12	(OHM)		VOLTAGE DRC
				(OHM)		
FAPS-P	V7	265	0.00193	1.023	1.105 A	1.130 V

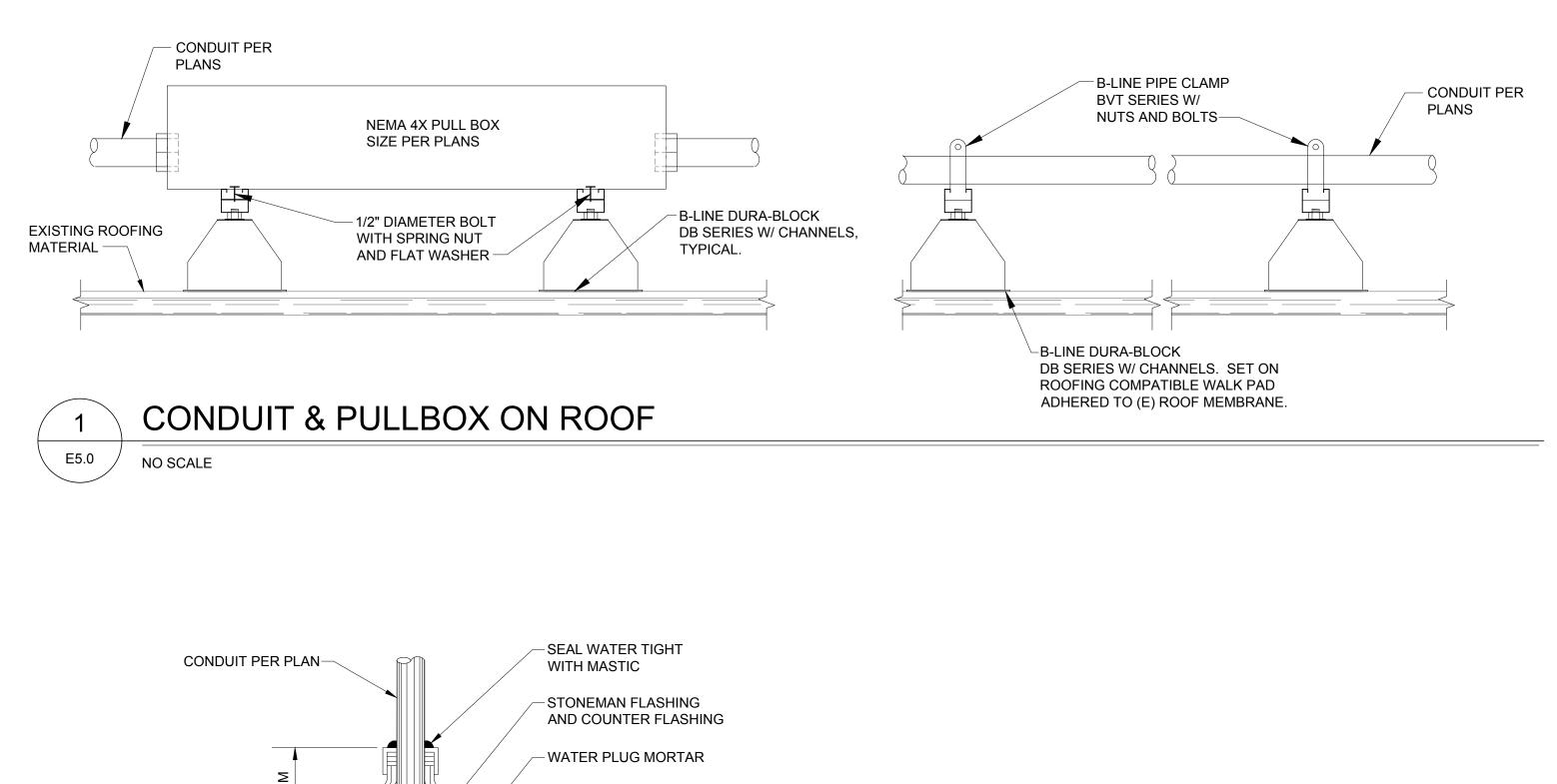


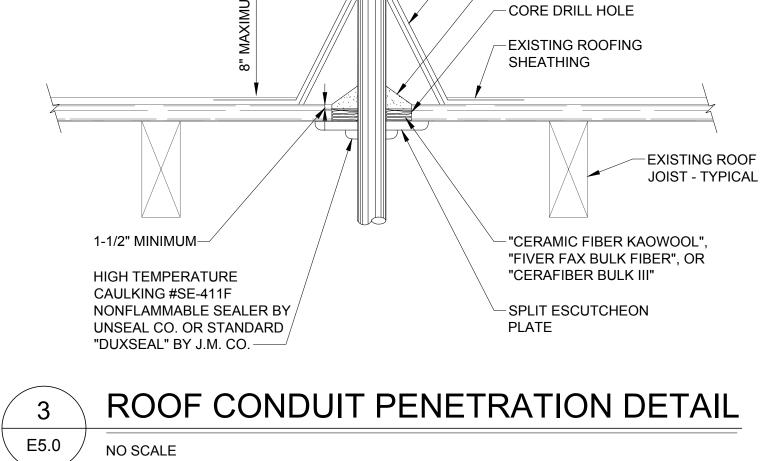
OHMS = (#14 FT * 3.07/1000 + #12 FT * 1.93/1000+ #10 FT * 1.21/1000) *2

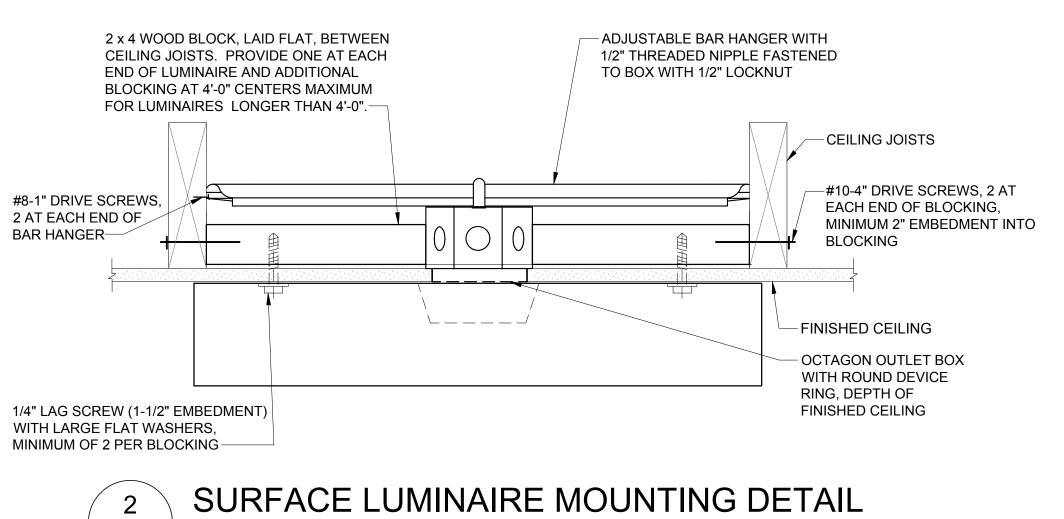
WIRE SIZE.	RESISTANCE OF WIRE		ACCUM.
#12	(OHM)	LOAD TOTAL	VOLTAGE DROP
	(OHM)		
0.00193	0.714	0.898 A	0.641 V



ENGINEERING, INC. Electrical Engineers Lighting Designers 100 Howe Ave., Suite 235N Sacramento, CA 95825-8217 www.mneilsengineering.com Tel: (916) 923-4400 Fax: (916) 923-4410 PROJECT #: 19275.21

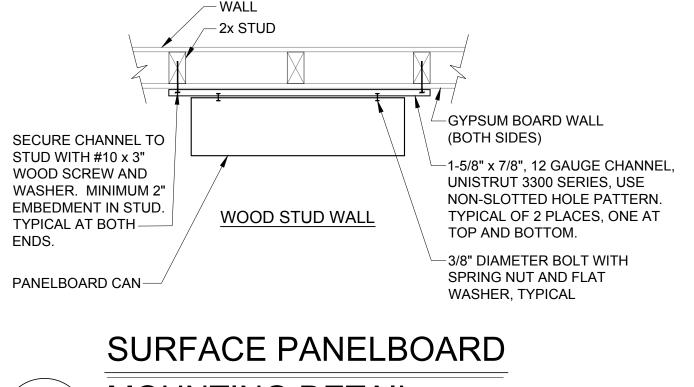




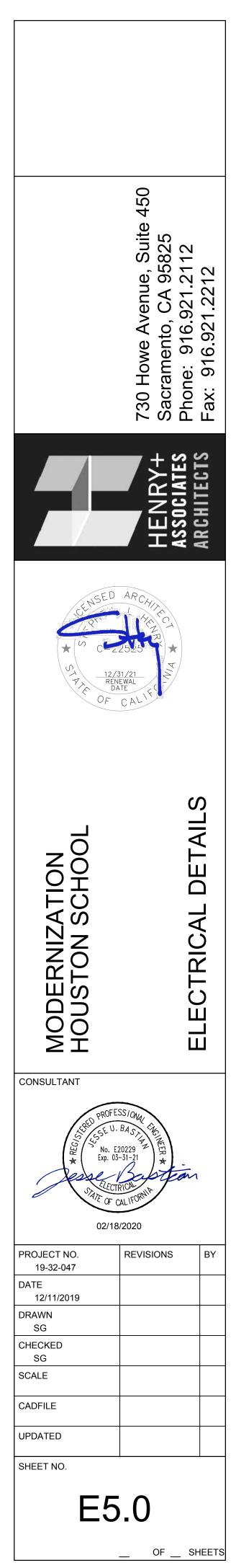


E5.0

NO SCALE



MOUNTING DETAIL 4 E5.0 NO SCALE





M. NEILS ENGINEERING, INC. Electrical Engineers Lighting Designers 100 Howe Ave., Suite 235N Sacramento, CA 95825-8217 www.mneilsengineering.com Tel: (916) 923-4400 Fax: (916) 923-4410 PROJECT #: 19275.21

ABBREVIATIONS

AC ACC

ACU

APN

ARV

BBALL

BCM

BFP

BLDG BOL

BOV BR.

B.W.F.

C/L CATV

CIP

C.L.F. CMP

CO

COL

CONC.

COND. CPF

CPS

DDC DF

DG

DI

DS

FΡ

FA

FFE

FH

FL

FΟ

F5

GB

GV

HB

HVE HWI

ÎĈP

ICV

INV

IRR

LNDG

MSC

NT5

OHANG OIP

OSPH

P/L

PA

PB

PH

PIV

PRKG

PUE

PV

PVC

RIM

ROW

RWL

SDMH

SLB

55CO 55MH

TBALL

TBM

TOW

TRW

VBALL

W/O

WIF

WRF

XFRMR

XWALK

WD.

UG UNK

5TL

5D

RWALL

RP

HBD

GRB GROD

FDC

DIA DRWY

DWG

ESMT

BL.

AD

NOTE: NOT ALL ABBREVIATIONS MAY BE USED ON THESE PLANS.

AREA DRAIN

BLOCK

BRICK

BUILDING BOLLARD

ASPHALTIC CONCRETE ACCESSIBLE

AIR RELEASE VALVE

BRASS CAP MONUMENT

BACK FLOW PREVENTER

BASKETBALL POLE

BLOW-OFF VALVE

CABLE TELEVISION

CAPPED IRON PIPE

CHAIN LINK FENCE

CORRUGATED METAL PIPE

CONTROL POINT FOUND

DOUBLE DETECTOR CHECK VALVE

CONTROL POINT SET

CONCRETE SURFACE

DRINKING FOUNTAIN

EDGE OF PAVEMENT

FIRE DEPARTMENT CONNECTION

FINISHED FLOOR ELEVATION

DECOMPOSED GRANITE

COMMUNICATION

CENTERLINE

CLEANOUT

CONCRETE

CONDENSATE

DROP INLET

DOWNSPOUT

DIAMETER DRIVEWAY

DRAWING

ELECTRIC

EASEMENT EXISTING

FIRE ALARM

FLOWLINE

FIBER OPTIC FIRE SERVICE

GRADE BREAK

GROUND ROD

HEADER BOARD

HIGH PRESSURE

HIGH VOLTAGE ELECTRIC HOG WIRE FENCE

PIPE INVERT ELEVATION

LOW VOLTAGE ELECTRIC

METAL STORAGE CONTAINER

OLD STEEL POST HOLE

POST INDICATOR VALVE

PUBLIC UTILITY EASEMENT

POLYVINYL CHLORIDE

MANHOLE RIM ELEVATION

REDUCED PRESSURE BACKFLOW PREVENTER

JOINT UTILITY POLE

IRRIGATION CONTROL PANEL

IRRIGATION CONTROL VALVE

GAS VALVE

HOSE BIBB

IRRIGATION

LANDING

METAL MANHOLE

MOW STRIP

OVERHEAD

OVERHANG

JOINT TRENCH

NOT TO SCALE

OPEN IRON PIPE

PROPERTY LINE

PLANTER AREA

POWER POLE

RIGHT OF WAY

RETAINING WALL

STORM DRAIN

SIGNAL STREET LIGHT

STEEL

TELEPHONE

TOP OF CURB

TELEPHONE POLE

TOP OF WALL

UNDERGROUND

UNKNOWN

WATER

WOOD

WITH WITHOUT

VOLLEYBALL

RAIN WATER LEADER

STREET LIGHT BOX SANITARY SEWER

TETHER BALL POLE

TEMPORARY BENCHMARK

TOP OF RETAINING WALL

WROUGHT IRON FENCE

WOOD RAIL FENCE

TRANSFORMER

CROSSWALK

STORM DRAIN MANHOLE

SANITARY SEWER CLEANOUT SANITARY SEWER MANHOLE

POSTHOLE

PARKING

PAVERS

RUBBER

PARKING BUMPER

HANDRAIL

GROUND ROD BOX

GRATE

FIRE HYDRANT

COLUMN

DEPTH

BARBED WIRE FENCE

AIR CONDITIONING UNIT

ASSESSOR'S PARCEL NUMBER

EXISTING

I	Ε	X	7	l

	TOPOGRAPHY EXISTIN
	- FROPERTY LINE
	— = CENTERLINE — = EASEMENT
	= PROPERTY CORNER FOUND AS NOTED
\bigcirc	= PROPERTY CORNER NOTHING FOUND OR SET
<u></u> ▲123	= TEMPORARY BENCHMARK (SEE TBM LIST FOR INF
	= SWALE OR DRAINAGE FLOW
	= DRAINAGE FLOW
xx	= FENCE (TYPE NOTED)
	= TREE (SIZE/TYPE INDICATED)
Y	= SLOPE
	= CONTOUR = CONCRETE SURFACE
	= EDGE OF ASPHALT
	= EDGE OF BUILDING
	= 51GN
0	= POST OR BOLLARD
99.9	= GROUND ELEVATION
99.99	= HARD SURFACE ELEVATION
EXISTI	NG UTILITIES
12"50	= STORM DRAIN LINE ISIZE + DIRECTION OF FLOW)
12"5D	= STORM DRAIN LINE
12"5D	(RECORD INFORMATION)
	= STORM DRAIN LINE [UNDERGROUND LOCATING]
SD	= STORM DRAIN MANHOLE
0	= STORM DRAIN CLEANOUT
	= DROP INLET
ê	= AREA DRAIN
° RWL	= RAIN WATER LEADER
° D5	= DOWNSPOUT
12"55	= SANITARY SEWER LINE SIZE + DIRECTION OF FLOW
12"55	= SANITARY SEWER LINE
12"55	[RECORD INFORMATION] = SANITARY SEWER LINE
63	(UNDERGROUND LOCATING)
<u>(</u> SS)	= SANITARY SEWER MANHOLE = SANITARY SEWER CLEANOUT
//	= DAINTART DEWER CELANOUT = WATER LINE (SIZE INDICATED)
//	= WATER LINE (RECORD INFORMATION)
//	= WATER LINE (UNDERGROUND LOCATING)
	= WATER MANHOLE
	= WATER VALVE
WM	= WATER METER
W	= WATER BOX
0	= IRRIGATION CONTROL VALVE
Q	= FIRE HYDRANT
	= BACKFLOW PREVENTER
0	= SPRINKLER
Φ	= HOSE BIBB
— ОН-Е—	= OVERHEAD ELECTRIC LINE
—— <i>E</i> ——	= UNDERGROUND ELECTRIC LINE
E	= UNDERGROUND ELECTRIC LINE (RECORD INFORMATION)
— —E— —	= UNDERGROUND ELECTRIC LINE
-	UNDERGROUND LOCATING
E	= ELECTRIC MANHOLE
-0-	= UTILITY POLE (WITH GUY WIRE)
EM	= ELECTRIC METER
E	= ELECTRIC BOX
	= STREET LIGHTING BOX
	= LIGHT STANDARD
	= SIGNAL LIGHT
Œ	= FLOOD LIGHT
	= ELECTRICAL OUTLET
	= GAS LINE (SIZE INDICATED)
	= GAS LINE (RECORD INFORMATION)
	= GAS LINE (UNDERGROUND LOCATING)
0	= GAS MANHOLE
	= GAS VALVE
	= GAS METER - TELEPHONE LINE
	= TELEPHONE LINE = TELEPHONE LINE (RECORD INFORMATION)
	= TELEPHONE LINE (KECORD INFORMATION) = TELEPHONE LINE (UNDERGROUND LOCATING)
	= TELEFHONE LINE (UNDERGROUND LOCATING) = STORM ORAIN BOX
	= STOPH OPAIN ROV

= STORM DRAIN BOX

= TRAFFIC SIGNAL BOX

9-138 CO.1.DWG
19-138
/DWG/
CIVIL
19-138\CIVIL\DWG\1
FILENAME: I: \

	EVIATIONS	PROPOSED LEGE		PROPOSED	G	ENERA
	NOT ALL ABBREVIATIONS M E PLANS.	IAY BE USED NOTE: 1	NOT ALL SYMBOLS MAY BE U	ISED ON THESE PLANS.	1.	THE TYPES, LOC
AB	AGGREGATE BASE	PROPOSE	ED GRADING & DRAINAGE SYN	BOLS:		SHOWN ON THES
AC AD	ASPHALTIC CONCRETE AREA DRAIN		" SD STORM DRAIN I			EXTENT, SIZES, REASONABLE EF
APN ARV	ASSESSOR'S PARCEL NUN AIR RELEASE VALVE	MBER	(SIZE AND FLO	W SHOWN)		UNDERGROUND URESPONSIBILITY
ASB	AGGREGATE SUB-BASE		STORM DRAIN	MANHOLE		UNDERGROUND UTILITIES WHICH
BO BV	BLOW-OFF VALVE BUTTERFLY VALVE		(SDMH)			THE CONTRACTO
BW C/L	BACK OF WALK CENTERLINE		CATCH BASIN ((CB)		PERFORMING AN
CB	CATCH BASIN		DROP INLET (D))	2.	WARREN CONSU
CL CMP	CLASS CORRUGATED METAL PIPE		- AREA DRAIN (A	(D)	۷.	LOCATION OF IM
CATV CO	CABLE TELEVISION CLEANOUT					ERRORS IN PHY CANNOT BE HEL
COMM	COMMUNICATION		PLANTER DRAIN FLOOR DRAIN (IMPROPER CONS
CONC. CONST.	CONCRETE CONSTRUCT		,	•	3.	IF SUBSURFACE CONSTRUCTION,
CR CS	CURB RETURN CONCRETE SURFACE	99	99	JLEANUUT		APPROPRIATE M
DC	DOUBLE CHECK VALVE		ELEVATION		А	CONTRACTOR A
DDC DG	DOUBLE DETECTOR CHECH DECOMPOSED GRANITE	K VALVE FF=	100.00 FINISHED FLOOP	R ELEVATION	т.	CONDITIONS DUF
DI DIA	DROP INLET DIAMETER	PAD	=99.33 BUILDING PAD	ELEVATION		AND PROPERTY: NORMAL WORKIN
DIP	DUCTILE IRON PIPE		CONCRETE SIDE	WALK		AND ENGINEER
DWG DS	DRAWING DOWNSPOUT	<u>internet de la construction</u>				OF THE OWNER
E EP	ELECTRIC EDGE OF PAVEMENT		→ GRADED DIRECT DRAINAGE FLOW		5.	THE CONTRACTO
ESMT	EASEMENT	<u>→</u>	> SWALE		-	
EX FS	EXISTING FIRE SERVICE LINE		SLOPE		б.	IT SHALL BE TH PRE-CONSTRUC
FDC FL	FIRE DEPARTMENT CONNE		\sim			MEANS AND ME
FM	SANITARY SEWER FORCE		TREE TO BE RE	EMOVED		CONTRACT, ALL
FF FH	FINISHED FLOOR ELEVATION FIRE HYDRANT		RETAINING WAL	L	7	WHERE IMPROVE
G GR	GAS GRATE ELEVATION	PROPOS	ED SANITARY SEWER SYMBOLS	5.	7.	ACCESSING THE PROTECT ANY S
GRD	GRADE ELEVATION	_	" SS SANTARY SEWER STINDOL			WITHIN THE BOU
GV HB	GATE VALVE HOSE BIBB	0	(SIZE AND FLO			THROUGHOUT CO OWNER.
HBD HDPE	HEADER BOARD HIGH DENSITY POLYETHYL	FNF PIPF	SANITARY SEWE	ER	8.	IT IS THE RESPO
HP	HIGH POINT		MANHOLE (SSI			ADJUSTMENTS M COMPLETION, TH
INV JP	PIPE INVERT ELEVATION JOINT UTILITY POLE			UT		CONSULTING EN
LF LIP	LINEAL FEET LIP OF GUTTER		FLUSHER BRAN	СН		CONTRACT. IF A AS-BUILT DELIV
LT	LEFT	PROPOSE	ED WATER SYMBOLS:		9.	IN VEHICULAR P
MS NTS	MOWSTRIP NOT TO SCALE	8"	W WATER LINE &	SI7F		STRAIGHT LINE, ROADWAY CENTE
OH PCC	OVERHEAD PORTLAND CEMENT CONC	BETE G				CONSTRUCTION BE REQUIRED. T
PD	PLANTER DRAIN	<u> </u>		ZE		
PIV P/L	POST INDICATOR VALVE PROPERTY LINE	<u> </u>	DW DOMESTIC WATE	ER LINE & SIZE	10.	NO BURNING OR
PP PUE	POWER POLE PUBLIC UTILITY EASEMEN	т8"	RW RECLAIMED WA	TER LINE & SIZE		SPECIFICALLY AI ADMINISTRATIVE
PVC	POLYVINYL CHLORIDE	<u> </u>	IRR IRRIGATION SER	VICE LINE & SIZE	11.	SUBGRADE AND
RCP R	REINFORCED CONCRETE F RADIUS	PIPE		WATER LINE & SIZE		ELEVATIONS, CO MOUNDS, RUTS,
RIM RP	MANHOLE RIM ELEVATION REDUCED PRESSURE BAC	(SOLID COVER)				SHOWN ON PLAI
RW	RIGHT OF WAY	KEVENIER		R SERVICE LINE & SIZE	12.	ON NEW WATER FITTINGS. SADDL
SCH SD	SCHEDULE STORM DRAIN		GATE VALVE			
SDMH	STORM DRAIN MANHOLE		M WATER METER		13.	CURING COMPOL
SG SS	SUBGRADE ELEVATION SANITARY SEWER		FH FIRE HYDRANT	ASSEMBLY		APPLICATIONS S
SSMH STD	SANITARY SEWER MANHO STANDARD	LE	Y FDC FIRE DEPARTME		14.	EMBEDMENT OF
s/W	SIDEWALK	- -				POSTS, OR COLUE EXPANSION JOIN
T TC	TELEPHONE TOP OF CURB		DETECTOR CHE	UK VALVE		SPECIFICALLY SI
TD TDCB	TRENCH DRAIN TRENCH DRAIN CATCH BA		DOUBLE DETEC	TOR CHECK VALVE	15.	EMBEDMENT OF
TP	TELEPHONE POLE		RP REDUCED PRES			POSTS, OR COLU
TO 11/	TOP OF RETAINING WALL TOP OF SEAT WALL		BACKFLOW PRE	VENTER		SPECIFICALLY SI
TRW TSW	TOP OF WALK ELEVATION	l	BUTTERFLY VAL	_VE	16	NO MORE THAN
TSW TW	UTILITY		→ ¹ " AIR RELEASE V	'ALVE + SIZE	10.	ARRIVAL TO PRO
TSW TW U UG	UNDERGROUND					CUNCRETE INSPI
TSW TW U UG UON	UNDERGROUND UNLESS OTHERWISE NOTE		BLOW-OFF VAL	VE + SIZE		
TSW TW UG UON VCP W	UNDERGROUND UNLESS OTHERWISE NOTE VITRIFIED CLAY PIPE WATER		PIV		17.	WHEN PUMPING ANY WATER ADI
TSW TW UG UON VCP W W/	UNDERGROUND UNLESS OTHERWISE NOTE VITRIFIED CLAY PIPE WATER WITH				17.	
TSW TW UG UON VCP W	UNDERGROUND UNLESS OTHERWISE NOTE VITRIFIED CLAY PIPE WATER		PIV			ANY WATER ADD
TSW TW UG UON VCP W W/ W/O	UNDERGROUND UNLESS OTHERWISE NOTE VITRIFIED CLAY PIPE WATER WITH WITHOUT		PIV			ANY WATER ADI

- STANDARDS.
- WILL NOT BE ALLOWED.

GENERAL PAVING SURFACE NOTES:

- REQUIREMENTS:

AL NOTES

OCATIONS, SIZES, AND/OR DEPTHS OF EXISTING UNDERGROUND UTILITIES AS ESE PLANS WERE OBTAINED FROM SOURCES OF VARYING RELIABILITY. THE IS CAUTIONED THAT ONLY ACTUAL EXCAVATION WILL REVEAL THE TYPES, , LOCATIONS AND DEPTHS OF SUCH UNDERGROUND UTILITIES. A EFFORT HAS BEEN MADE TO LOCATE AND DELINEATE ALL KNOWN UTILITIES. HOWEVER, WARREN CONSULTING ENGINEERS CAN ASSUME NO Y FOR THE COMPLETENESS OR ACCURACY OF ITS DELINEATION OF SUCH UTILITIES, NOR FOR THE EXISTENCE OF OTHER BURIED OBJECTS OR CH MAY BE ENCOUNTERED BUT WHICH ARE NOT SHOWN ON THESE PLANS. TOR OR ANY SUBCONTRACTOR FOR THIS CONTRACT SHALL NOTIFY MEMBERS Know what's below. OUND SERVICE ALERT (USA) TWO (2) WORKING DAYS IN ADVANCE OF ANY EXCAVATION WORK BY CALLING TOLL FREE 1-800-227-2600, OR 811.



FILE NO. 39-50 APP NO. 02-117209

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12/31/21 RÉNEWAL DATE

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Call before you dig.

SULTING ENGINEERS, INC. (WCE) ASSUMES NO RESPONSIBILITY FOR ERRORS IN PHYSICAL IMPROVEMENTS, HORIZONTAL OR VERTICAL, IF STAKED BY OTHERS. IN ADDITION, ANY SUCH HYSICAL LOCATION MAY AFFECT THE INTENDED DESIGN OF SUCH IMPROVEMENTS AND WCE ELD RESPONSIBLE FOR SUCH CONDITIONS WHICH ARE A RESULT OF ERRORS IN SURVEYING, OR NSTRUCTION.

CE CULTURAL RESOURCES, REMAINS, AND/OR ARTIFACTS ARE UNCOVERED DURING PROJECT N. ALL WORK IN THE VICINITY SHALL BE STOPPED UNTIL SUCH ITEMS CAN BE ASSESSED BY AN MEMBER OF THE COUNTY ENVIRONMENTAL IMPACT SECTION STAFF.

AGREES THAT HE/SHE SHALL ASSUME SOLE AND COMPLETE RESPONSIBILITY FOR JOB SITE URING THE COURSE OF CONSTRUCTION OF THIS PROJECT, INCLUDING SAFETY OF ALL PERSONS 'Y: THAT THIS REQUIREMENT SHALL APPLY CONTINUOUSLY AND SHALL NOT BE LIMITED TO KING HOURS: AND THAT THE CONTRACTOR SHALL DEFEND, INDEMNIFY AND HOLD THE OWNER HARMLESS FROM ANY AND ALL LIABILITY, REAL OR ALLEGED, IN CONNECTION WITH THE OF WORK ON THIS PROJECT, EXCEPTING FOR LIABILITY ARISING FROM THE SOLE NEGLIGENCE R OR ENGINEER.

TOR SHALL OBTAIN AN EXCAVATION PERMIT FROM THE STATE OF CALIFORNIA DEPARTMENT OF AFETY FOR ALL EXCAVATIONS OF 5 FEET OR MORE IN DEPTH.

THE CONTRACTOR'S RESPONSIBILITY TO MAKE ALL NECESSARY PRE-BID AND JCTION SITE INSPECTION, AND/OR OBSERVATIONS ON THE SITE TO PRE-DETERMINE ALL HIS/HER IETHODS NECESSARY TO COMPLETE THE IMPROVEMENTS SHOWN ON THESE PLANS AND PER THE CIFICATIONS. IT IS THE CONTRACTORS RESPONSIBILITY TO DETERMINE, AND INCLUDE IN HIS/HER L MEANS AND METHODS NECESSARY TO PERFORM A COMPLETE AND ACCEPTABLE JOB.

VEMENTS LIE WITHIN AN EXISTING DEVELOPED AREA, CONTRACTOR SHALL USE CAUTION WHEN E SITE THROUGH THESE EXISTING IMPROVEMENTS. IT IS THE CONTRACTORS RESPONSIBILITY TO SUCH EXISTING IMPROVEMENTS OUTSIDE THE PROJECT BOUNDARY, OR EXISTING IMPROVEMENTS OUNDARY WHICH ARE TO REMAIN. PROPER PRECAUTIONS SHALL BE PROVIDED AND MAINTAINED CONSTRUCTION. ANY DAMAGE SHALL BE REPAIRED OR REPLACED TO THE SATISFACTION OF THE

SPONSIBILITY OF THE CONTRACTOR TO KEEP DETAILED RECORDS OF MINOR CHANGES OR MADE DURING CONSTRUCTION (WHICH WERE NOT FORMALLY ISSUED). UPON PROJECT THESE RECORDS AND/OR INFORMATION SHALL BE PROVIDED TO THE OWNER AND WARREN INGINEERS, INC. UNLESS AN OFFICIAL "AS-BUILT" SET OF PLANS IS A REQUIREMENT OF THE AS-BUILT PLANS ARE A REQUIREMENT OF THE CONTRACT, REFER TO SPECIFICATIONS FOR IVERABLE REQUIREMENTS.

PATHWAYS, EXISTING ASPHALTIC AND/OR CONCRETE SURFACES SHALL BE CUT TO A NEAT AND , PARALLEL OR PERPENDICULAR TO THE VEHICULAR TRAVELED PATH. THIS IS TYPICALLY THE ITERLINE, BUT MAY VARY. THAT SAWCUT EDGE SHALL BE PROTECTED FROM DAMAGE DURING N SO A CLEAN EDGE REMAINS FOR PATCH BACK .. IF EDGE IS DAMAGED, A NEW SAW CUT WILL THE EXPOSED EDGE SHALL BE "TACKED" WITH EMULSION PRIOR TO PAVING.

OR BLASTING SHALL BE ALLOWED ONSITE UNLESS SPECIFICALLY ADDRESSED ON PLANS, OR APPROVED AND COORDINATED WITH THE ARCHITECT, ENGINEER, AND LOCAL AGENCY OR OTHER /E AUTHORITY.

ID RESULTING FINISHED GRADE SHALL BE CONSTRUCTED SMOOTH AND UNIFORM BETWEEN SPOT CONTOURS OR OTHER STRUCTURE ELEVATIONS SHOWN ON GRADING OR OTHER PLANS. NO S, DEPRESSIONS OR OTHER GRADING DEFICIENCIES WILL BE ALLOWED UNLESS SPECIFICALLY ANS.

R SYSTEMS, SERVICE LATERALS SHALL BE MADE USING APPROPRIATE "TEE" AND "WYE" DLE TAPS WILL ONLY BE ALLOWED WHEN MAKING CONNECTIONS TO EXISTING WATER MAINS.

OUND SHALL BE APPLIED IN A CONTINUOUS SOLID WET FLOWING COAT. ANY "SPOTTY" SHALL BE RECOATED IMMEDIATELY. APPLICATION SHALL BE INSPECTED BY PROJECT JRING APPLICATION.

OF FEATURES IN CONCRETE PAVING, CURBS, OR WALLS, SUCH AS SQUARE OR ROUND TUBING, DLUMNS. STEEL BOLTED PLATES. OR OTHER STRUCTURES. SHALL REQUIRE ADDITIONAL SCORE OR DINTS TO PREVENT UNCONTROLLED CRACKING. THOSE ADDITIONAL JOINTS MAY OR MAY NOT BE SHOWN ON PLANS BUT SHALL BE PROVIDED BY THE CONTRACTOR.

OF FEATURES IN CONCRETE PAVING, CURBS, OR WALLS, SUCH AS SQUARE OR ROUND TUBING, DLUMNS, STEEL BOLTED PLATES, OR OTHER STRUCTURES, SHALL REQUIRE A MINOR ADJUSTMENT THIN CONCRETE TO ALLOW FOR SUCH STRUCTURE. THAT REBAR ADJUSTMENT MAY NOT BE SHOWN ON PLANS.

AN 1 GALLON OF WATER PER YARD OF CONCRETE CAN BE ADDED TO THE TRUCK AFTER PROJECT SITE. THE ADDITION OF WATER CAN ONLY BE ADDED UNDER THE SUPERVISION OF THE SPECTOR OR LABORATORY TECHNICIAN.

IG CONCRETE FOR PLACEMENT, ABSOLUTELY NO WATER IS TO BE ADDED TO PUMP HOPPER. DDED TO HOPPER WILL BE REASON FOR CONCRETE REJECTION AT THE CONTRACTORS EXPENSE.

TION/CONSTRUCTION JOINTS "CJ" SHALL BE 1/4 THE SLAB THICKNESS DEEP, BUT NO LESS CONTROLLING OF CRACKING. CONTRACTOR SHALL EXERCISE CAUTION WHEN FINAL TROWELING OF AS NOT TO FILL IN THESE JOINTS WITH CONCRETE CREAM. ANY CRACKS OUTSIDE OF JOINTS CONSTRUCTED LESS THAN 1" DEEP, SHALL BE CAUSE FOR CONCRETE SLAB(S) TO BE REMOVED AND REPLACE AT CONTRACTORS EXPENSE.

19. ANY SCREED BOARDS SET WITHIN CONCRETE SLABS SHALL BE AN "OVERHEAD SCREED" SO THERE IS NO INTERFERENCE WITH THE PLACEMENT AND ALIGNMENT OF SLAB REINFORCING.

20. 3-1/2" FELT JOINTS WILL NOT BE ACCEPTED. PROVIDE A FULL 4" FELT JOINT FOR 4" SLAB CONSTRUCTION, AND A 6" FELT JOINT FOR A 6" SLAB SLAB CONSTRUCTION.

21. SHOULD ANY SHRINKAGE CRACKS OCCUR OUTSIDE OF EITHER THE EXPANSION JOINTS OR CRACK CONTROL JOINTS, THEN THE CONCRETE SLAB SHALL BE SAWCUT AT THE NEAREST JOINTS ON EACH SIDE OF THE CRACK AND THE CONCRETE SECTION SHALL BE, REMOVED AND REPLACED. NEW CONCRETE SHALL BE DOWELED INTO EXISTING CONCRETE PER DRAWING DETAIL.

22. ALL AREAS DISTURBED BY GRADING OPERATIONS WHETHER SHOWN ON THE DRAWINGS OR NOT SHALL BE HYDRO SEEDED UNLESS OTHERWISE NOTED. HYDRO SEEDING SHALL CONFORM TO LOCAL CITY/COUNTY

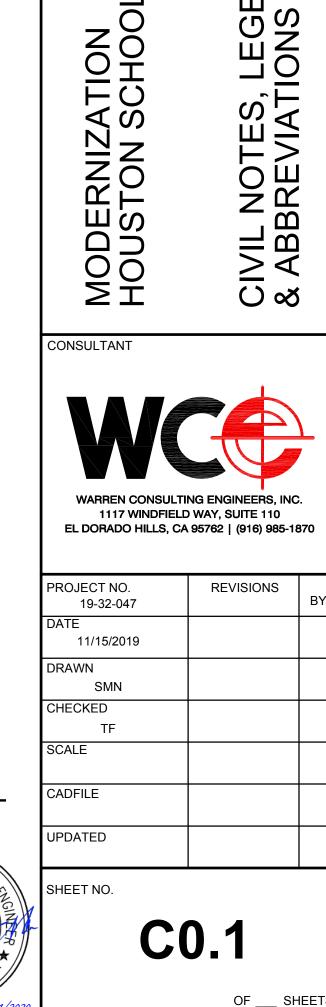
23. REPAIR OR PATCHING OF GALVANIZED METALS, SUCH AS AFTER WELDING GALVANIZED COMPONENTS, SHALL BE MADE USING A ZINC COMPOSITION "HOT STICK" APPLICATION PER ASTM A 780-01. GALVANIZING PAINTS

1. PROVIDE EQUIVALENT OF MEDIUM BROOM FINISH AT SLOPES UP TO 5.99%, TYPICAL. PROVIDE EQUIVALENT OF HEAVY BROOM FINISH AT SLOPES 6% AND GREATER. REFER TO SPECIFICATIONS.

2. ALL NEW PEDESTRIAN WALKWAYS (NON-RAMP) SHALL BE SLOPED NO GREATER THAN 2.0%, AND NO LESS THAN 0.75% IN ANY DIRECTION, UNLESS SPECIFICALLY LABELED OTHERWISE. ALL CONCRETE SHALL MEET THE FOLLOWING SLOPE

- NO GREATER THAN 5% SLOPE IN THE DIRECTION OF TRAVEL.

- NO GREATER THAN 2% SLOPE CROSSING THE DIRECTION OF TRAVEL. - NO GREATER THAN 2% SLOPE IN ANY DIRECTION IN COURTYARD OR PLAZA AREAS.



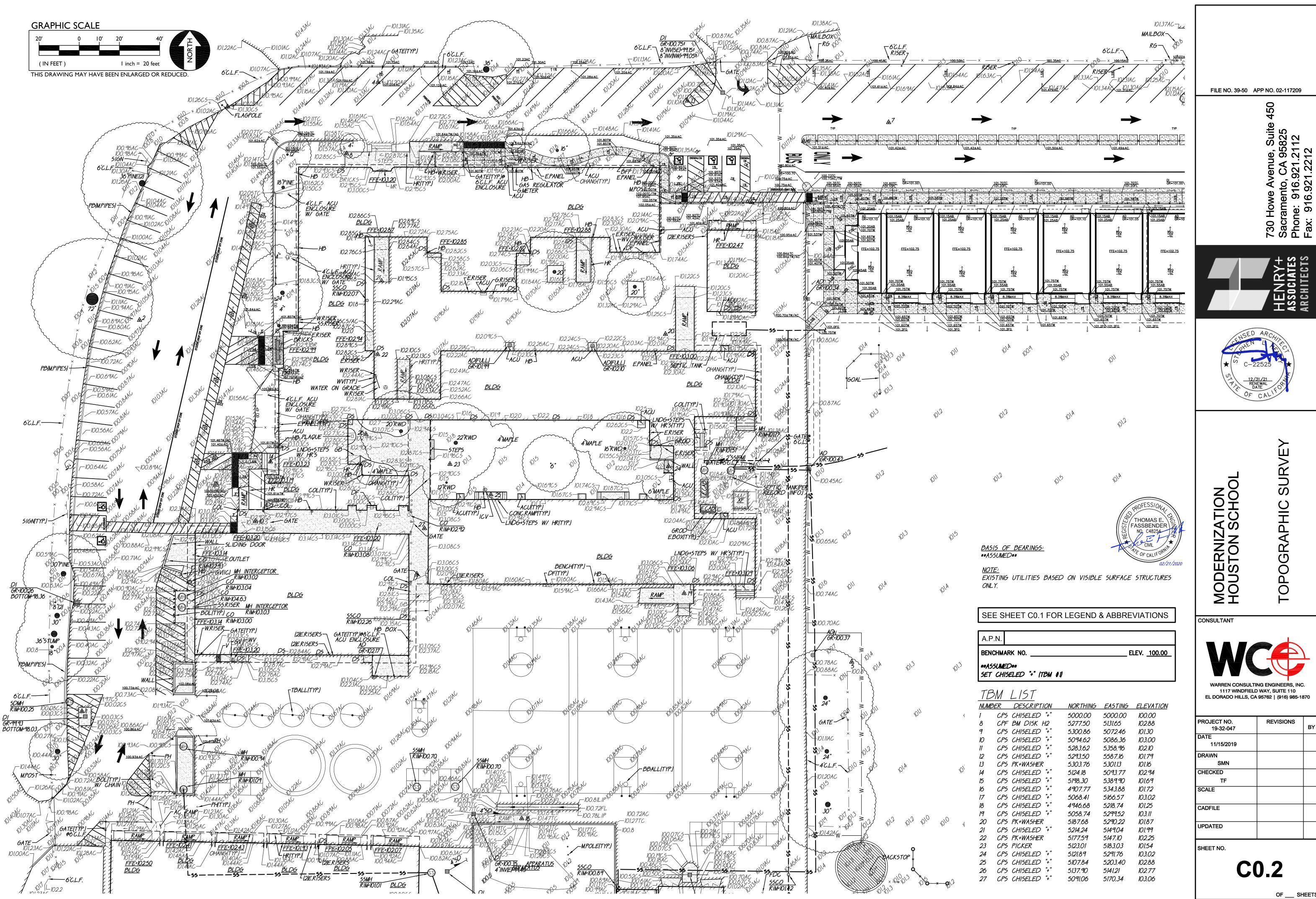
PROFESSION

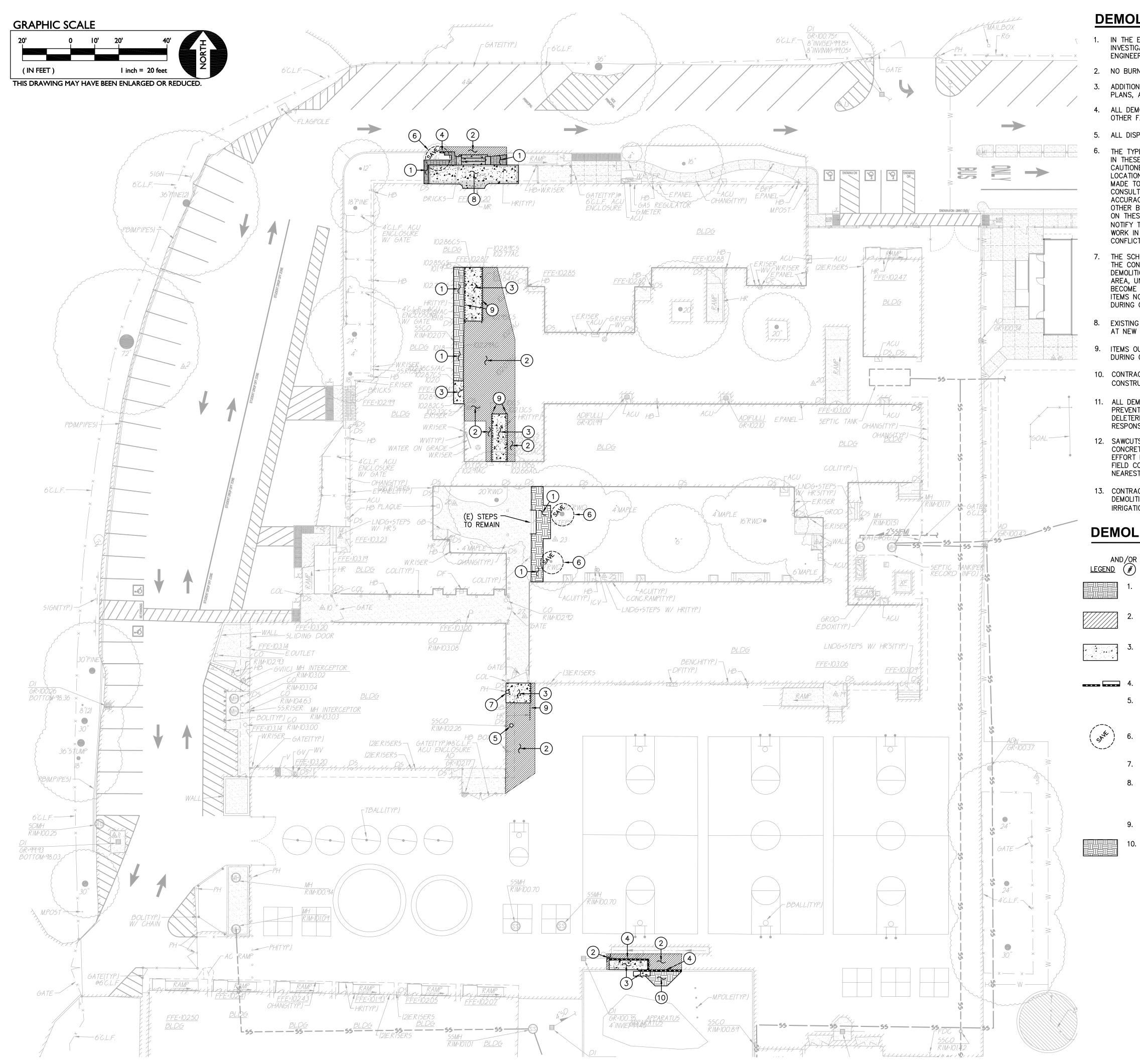
THOMAS E.

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FASSBENDER NO, C48254

OF CALIF





DEMOLITION GENERAL NOTES

1. IN THE EVENT THAT ANY UNUSUAL CONDITIONS NOT COVERED BY THE GEOTECHNICAL INVESTIGATION REPORT OR ARE ENCOUNTERED DURING GRADING OPERATIONS THE GEOTECHNICAL ENGINEER AND THE ENGINEER SHALL BE IMMEDIATELY NOTIFIED FOR DIRECTIONS.

NO BURNING OR BLASTING SHALL BE PERMITTED.

ADDITIONAL DEMOLITION INFORMATION MAY BE SHOWN ON THE GRADING, DRAINAGE, AND UTILITY PLANS, AND THOSE PLANS PREPARED BY OTHER DISCIPLINES FOR THIS PROJECT.

ALL DEMOLISHED ITEMS SHALL BE DISPOSED OF OFFSITE AT A SUITABLE, LEGAL, DUMP SITE OR OTHER FACILITY.

5. ALL DISPOSED OF MATERIALS SHALL BE RECYCLED IF POSSIBLE.

THE TYPES, LOCATIONS, SIZES AND/OR DEPTHS OF EXISTING UNDERGROUND UTILITIES AS SHOWN IN THESE PLANS WERE OBTAINED FROM SOURCES OF VARYING RELIABILITY. THE CONTRACTOR IS CAUTIONED THAT ONLY ACTUAL EXCAVATION WILL REVEAL THE TYPES, EXTENT, SIZES, LOCATIONS, AND DEPTHS OF SUCH UNDERGROUND UTILITIES. A REASONABLE EFFORT HAS BEEN MADE TO LOCATE AND DELINEATE ALL KNOWN UNDERGROUND UTILITIES. HOWEVER, WARREN CONSULTING ENGINEERS CAN ASSUME NO RESPONSIBILITY FOR THE COMPLETENESS OR ACCURACY OF ITS DELINEATION OF SUCH UNDERGROUND UTILITIES, NOR FOR THE EXISTENCE OF OTHER BURIED OBJECTS OR UTILITIES WHICH MAY BE ENCOUNTERED BUT WHICH ARE NOT SHOWN ON THESE DRAWINGS. THE CONTRACTOR OR ANY SUBCONTRACTOR FOR THIS CONTRACT SHALL NOTIFY THE DISTRICT TWO (2) WORKING DAYS IN ADVANCE OF PERFORMING ANY EXCAVATION WORK IN ORDER TO VERIFY TO THE GREATEST EXTENT POSSIBLE THE EXISTING UTILITY LINES, CONFLICTS AND PROPOSED UTILITY CONNECTION POINTS.

THE SCHOOL DISTRICT SHALL HAVE SALVAGE RIGHTS TO ANY DEMOLISHED ITEMS SHOWN HEREON. THE CONTRACTOR SHALL GIVE THE DISTRICT NOTICE 7 DAYS PRIOR TO THE START OF DEMOLITION. THE DISTRICT SHALL MOVE ANY RETAINED ITEMS OUT OF THE CONTRACTORS WORK AREA, UNLESS ANOTHER ARRANGEMENT IS MADE WITH THE CONTRACTOR. ANY REMAINING ITEMS BECOME THE PROPERTY OF THE CONTRACTOR AND SHALL BE REMOVED FROM THE SITE. ANY ITEMS NOT SHOWN FOR REMOVAL SHALL REMAIN AND SHALL BE PROTECTED FROM DAMAGE DURING CONSTRUCTION TO A REASONABLE EXTEND.

EXISTING UTILITY STRUCTURES IN AREAS OF NEW PAVING SHALL BE REMOVED AND REINSTALLED AT NEW GRADE UNLESS SPECIFICALLY NOTED OTHERWISE.

9. ITEMS OUTSIDE THE LIMITS OF DEMOLITION SHALL REMAIN AND BE PROTECTED FROM DAMAGE DURING CONSTRUCTION..

10. CONTRACTOR SHALL COMPLY WITH CHAPTER 33 OF THE 2014 CFC, "FIRE SAFETY DURING CONSTRUCTION AND DEMOLITION" AT ALL TIMES DURING CONSTRUCTION.

11. ALL DEMOLITION SHALL BE APPROPRIATELY SUPPORTED AND REINFORCED DURING REMOVAL TO PREVENT INJURY FROM FALLING, PROJECTILE, OR OTHERWISE MOVING DEBRIS OR OTHER DELETERIOUS MATERIAL. ONSITE SAFETY WITHIN THE LIMITS OF WORK IS THE CONTRACTORS SOLE RESPONSIBILITY.

12. SAWCUTS AND SUBSEQUENT PATCH BACK OF CONCRETE WALKS, SHALL BE TO THE EXISTING CONCRETE JOINT BEYOND NEAREST THE LOCATION OF DEMOLITION AS SHOWN. A REASONABLE EFFORT HAS BEEN MADE TO LOCATE, SHOW AND COORDINATE WITH EXISTING JOINTS, HOWEVER IF FIELD CONDITIONS ARE OTHERWISE, IT IS UNDERSTOOD TO REMOVE AND PATCH BACK TO THE NEAREST JOINTS BEYOND DEMOLITION.

13. CONTRACTOR SHALL AVOID DAMAGE TO EXISTING PLANTING AND IRRIGATION ALONG EDGES OF DEMOLITION AND NEW PAVEMENT. CONTRACTOR SHALL REPAIR ANY DAMAGE, TO INCLUDE NEW IRRIGATION LINES, NEW HEADS, NEW BARK/MULCH AND NEW SOD TURF WHERE NECESSARY.

DEMOLITION NOTES

NOTE: NOT ALL NOTES MAY BE USED ON THIS SHEET.

LEGEND (#) DEMOLITION NOTES

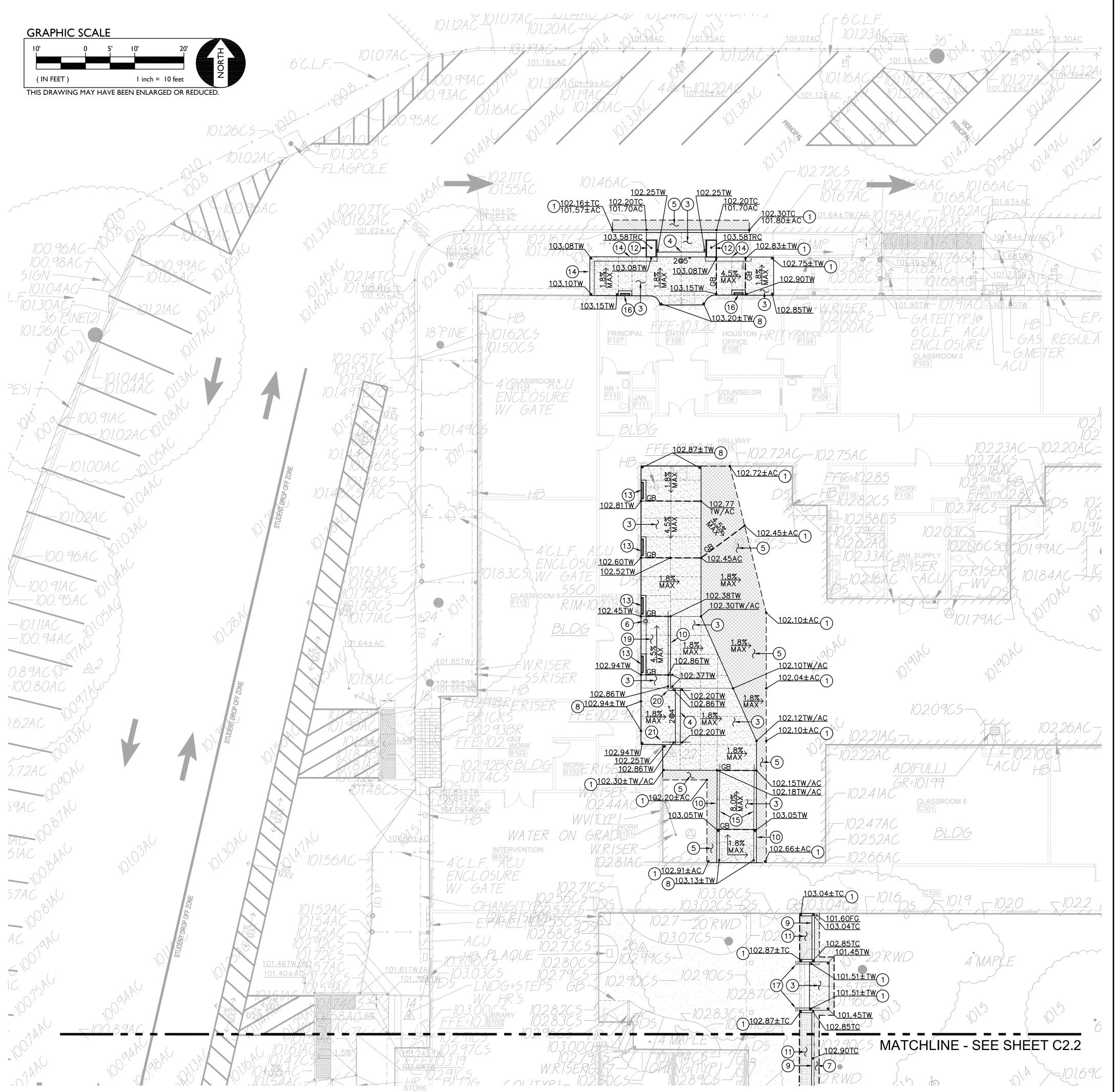
- REMOVE ALL PLANTS, SHRUBS, EXISTING VEGETATION, AND IRRIGATION SYSTEMS. REFER TO EARTHWORK SPECIFICATIONS FOR ADDITIONAL SITE CLEARING REQUIREMENTS. SEE GENERAL IRRIGATION NOTE, THIS SHEET.
- SAWCUT AND REMOVE EXISTING ASPHALT PAVING AND BASE ROCK TO ALLOW FOR NEW WORK. SAWCUTS SHALL BE NEAT STRAIGHT LINES. IF EDGES BROKEN DURING CONSTRUCTION, PERFORM NEW SAWCUTS JUST PRIOR TO NEW PAVING.
- REMOVE EXISTING CONCRETE PAVING AND BASE ROCK. WHERE SAWCUTS ARE 3. NECESSARY, THEY SHALL BE A NEAT STRAIGHT LINE. CUT SHALL BE MADE AT NEAREST EXISTING JOINT TO LOCATION SHOWN.

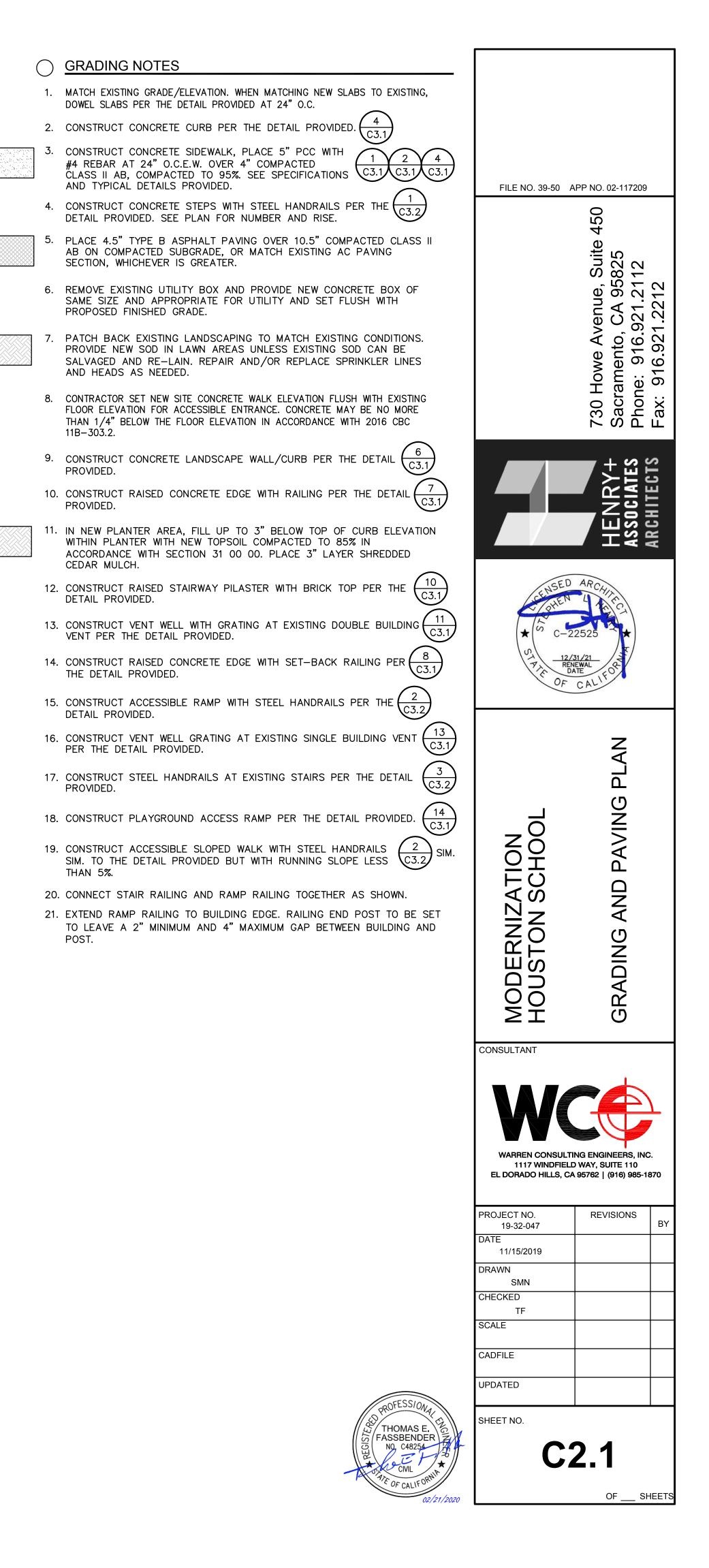
4. REMOVE EXISTING CONCRETE CURB / CURB GUTTER.

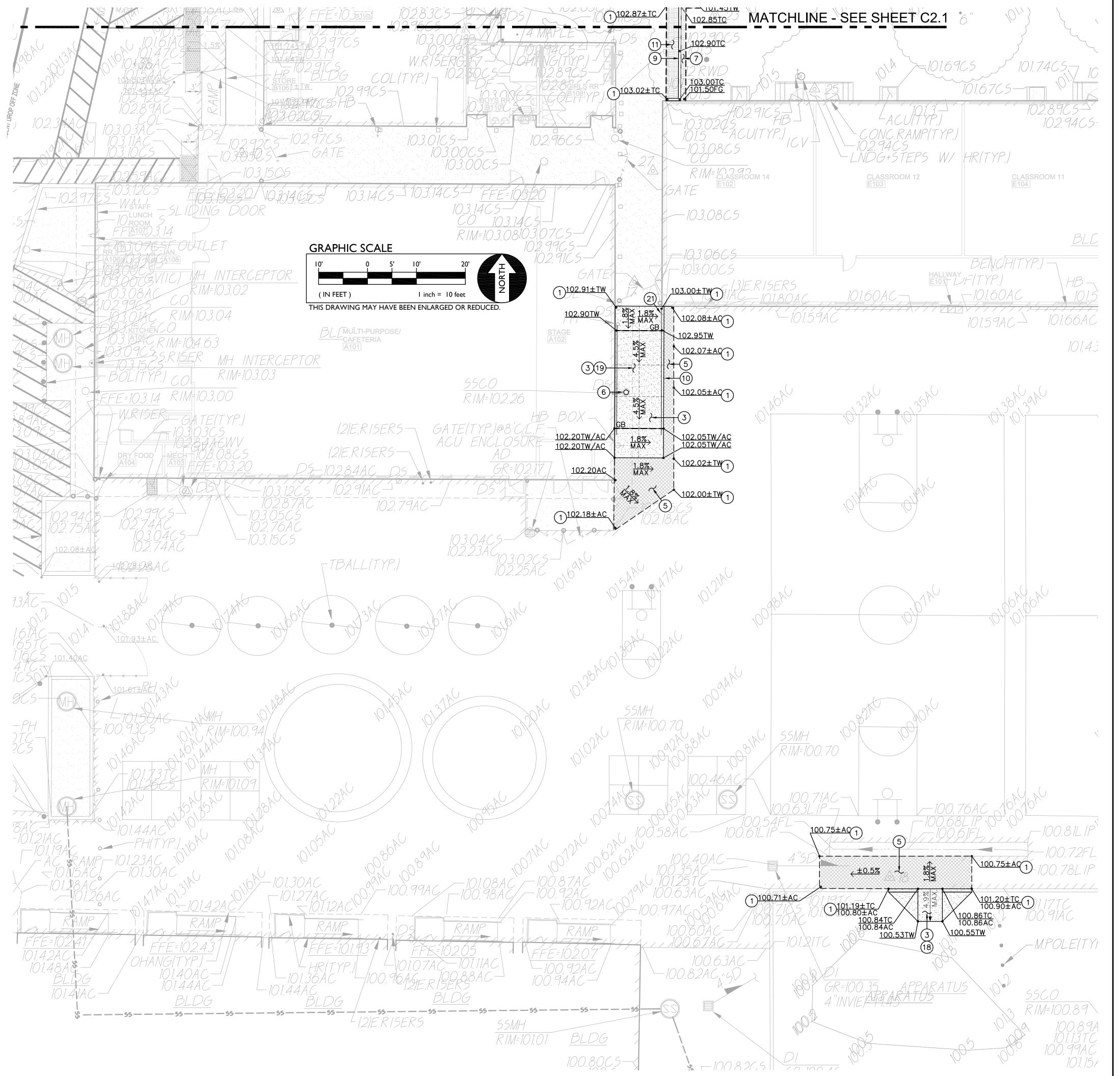
- 5. REMOVE EXISTING UTILITY BOX AND PROVIDE NEW. NEW BOX SHALL BE SIMILAR IN SIZE, BUT WITH TRAFFIC RATING AND SLIP RESISTANT COVER. REFER TO GRADING AND UTILITY PLANS AND PROJECT SPECIFICATIONS FOR ADDITIONAL INFORMATION.
- 6. EXISTING TREE TO REMAIN AND BE PROTECTED FROM DAMAGE. PROVIDE PROTECTIVE FENCING IF NEEDED.
- 7. REMOVE EXISTING POST HOLE.
- 8. REMOVE EXISTING CURBS, WALLS, STEPS RAILINGS AND BRICK PAVING AS SHOWN TO ALLOW FOR NEW WORK. USE CAUTION AS PAVING IS ATTACHED TO BUILDING WITH REBAR. CAREFULLY REMOVE CONCRETE PAVING AND CUT REBAR FLUSH WITH BUILDING WALL.
- 9. REMOVE EXISTING STEEL HANDRAIL.
- 10. PULL BACK (E) MULCH TO ALLOW FOR NEW CONSTRUCTION. IF PRESENT, REMOVE FILTER FABRIC AND DRAINAGE STONE AND BACKFILL WITH CLASS II AB AS NEEDED TO SUPPORT NEW CONCRETE RAMP ASSEMBLY.

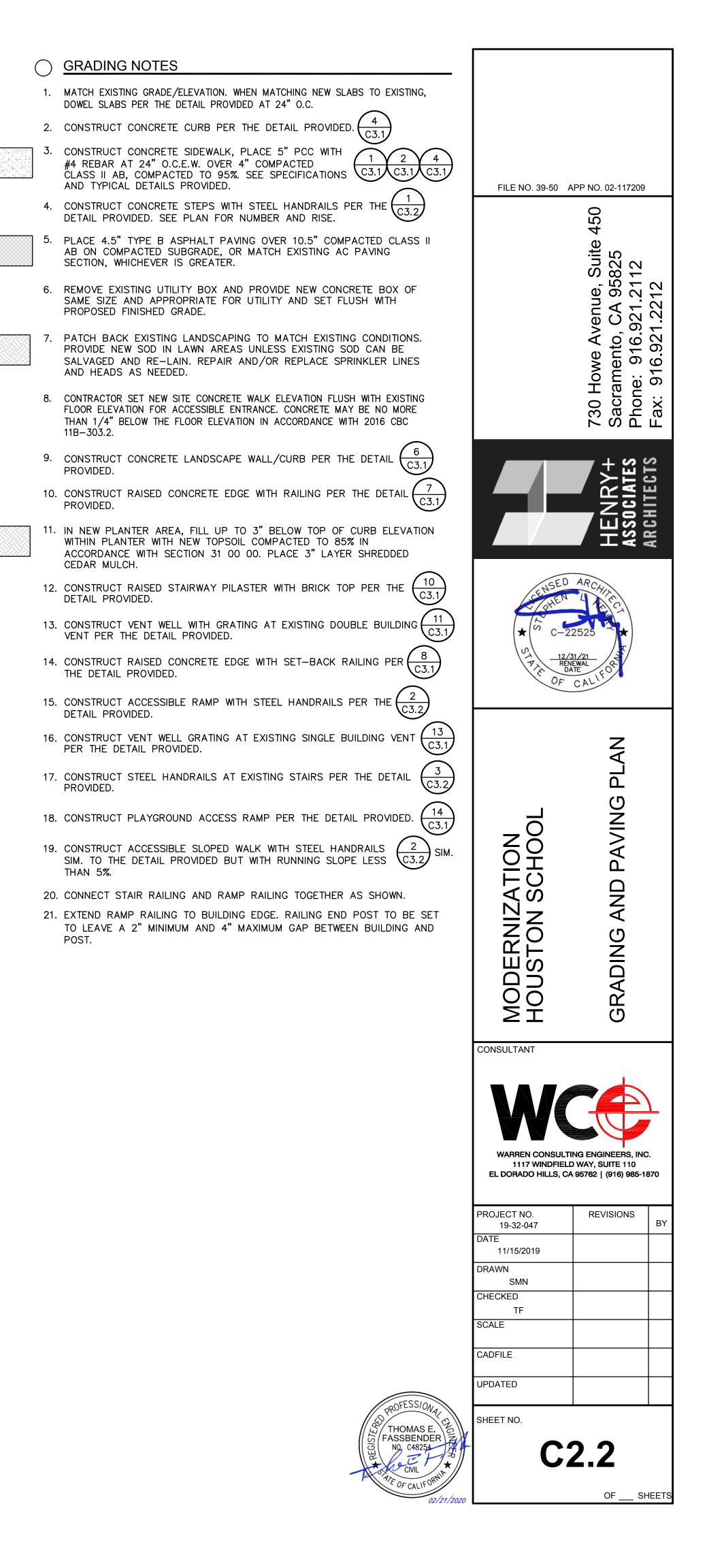


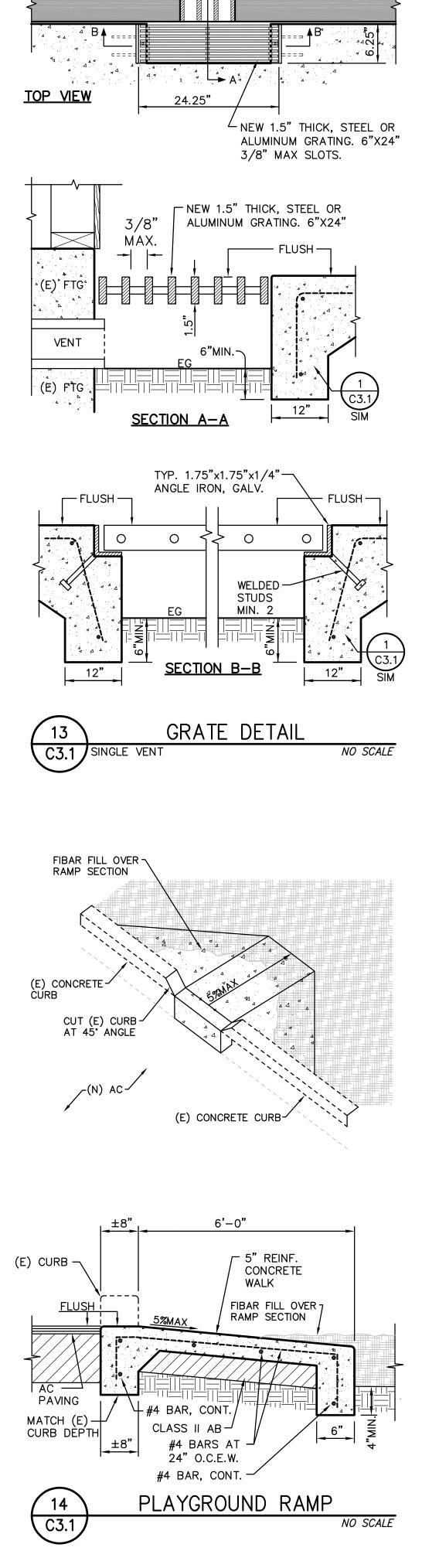
FILE NO. 39-50	APP NO. 02-117209
	730 Howe Avenue, Suite 450 Sacramento, CA 95825 Phone: 916.921.2112 Fax: 916.921.2212
	HENRY+ Associates Architects
01 12	ARCHIITCI 22525 /31/21 NATE CALIFO
MODERNIZATION HOUSTON SCHOOL	DEMOLITION PLAN
1117 WINDFIEL	TING ENGINEERS, INC. D WAY, SUITE 110 A 95762 (916) 985-1870
PROJECT NO. 19-32-047 DATE 11/15/2019 DRAWN SMN CHECKED TF SCALE CADFILE	REVISIONS BY
UPDATED SHEET NO.	1_1





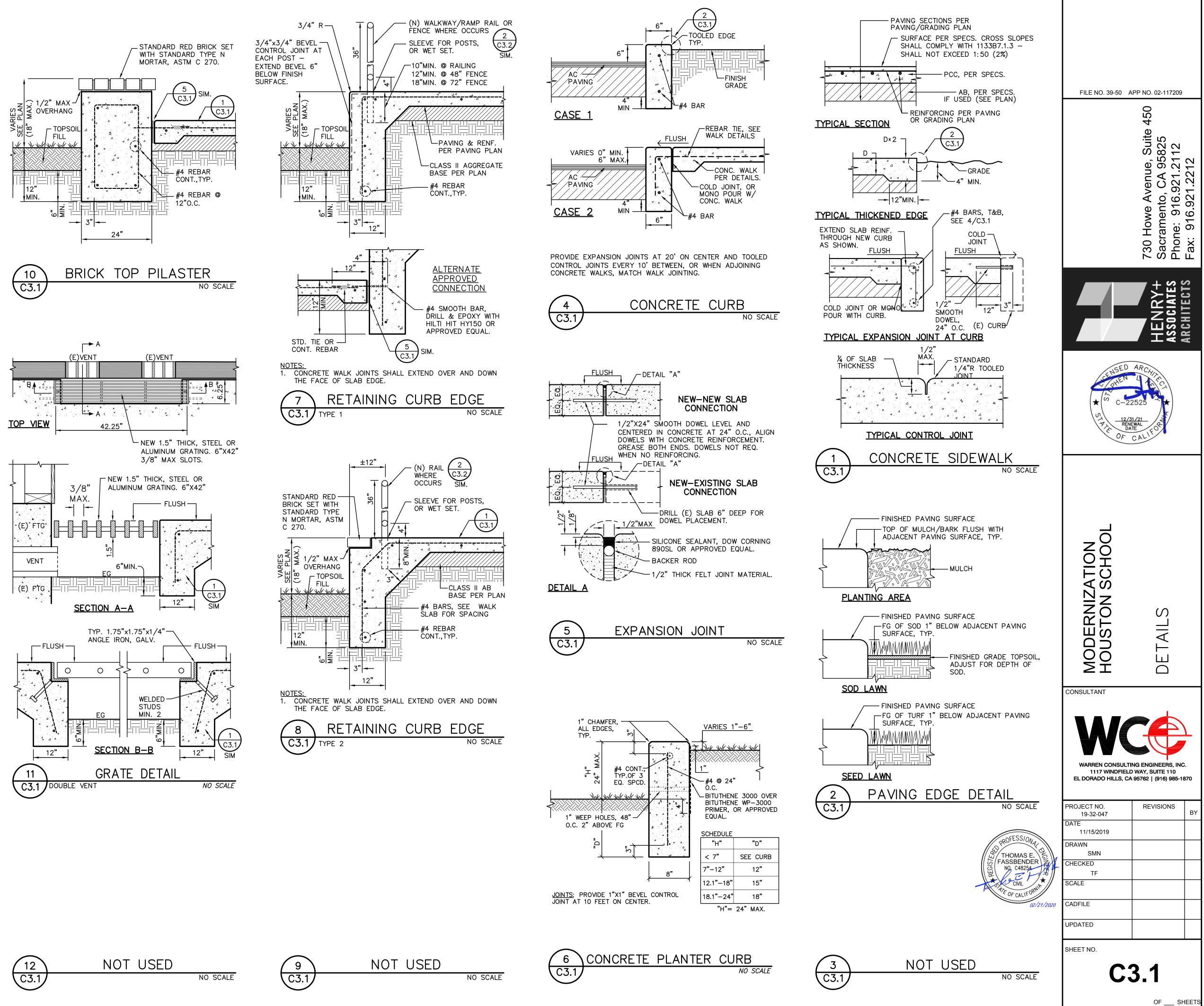




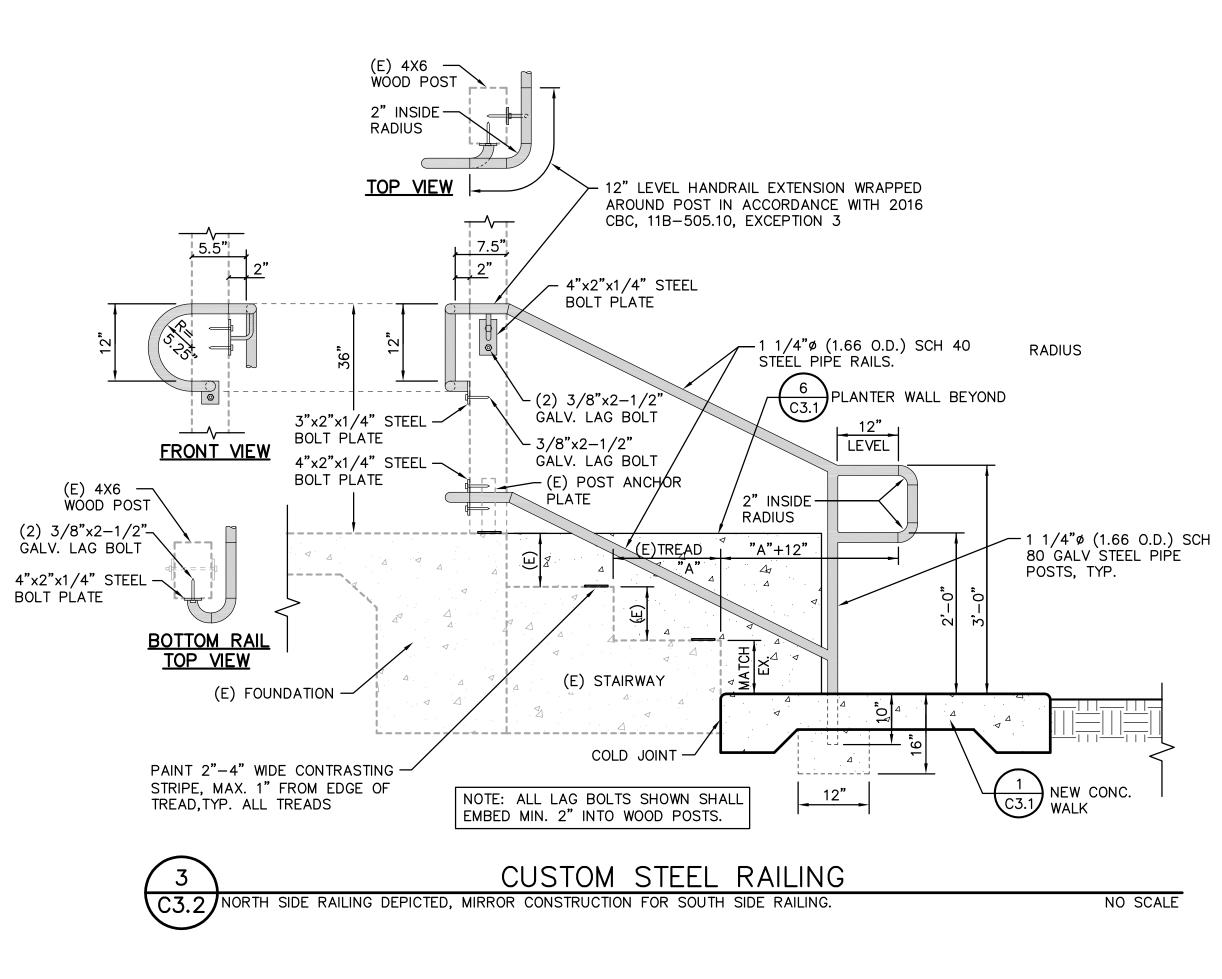


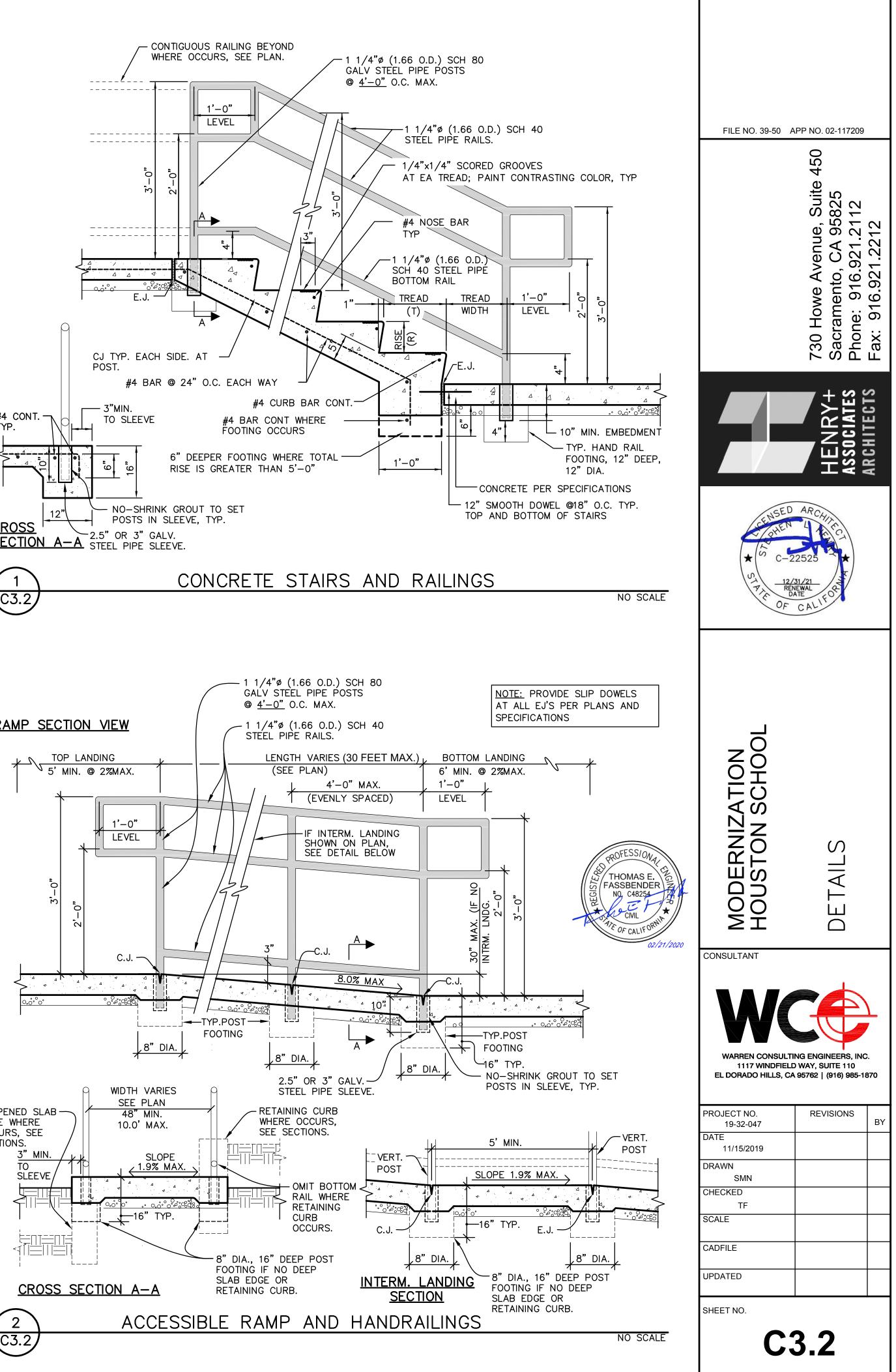
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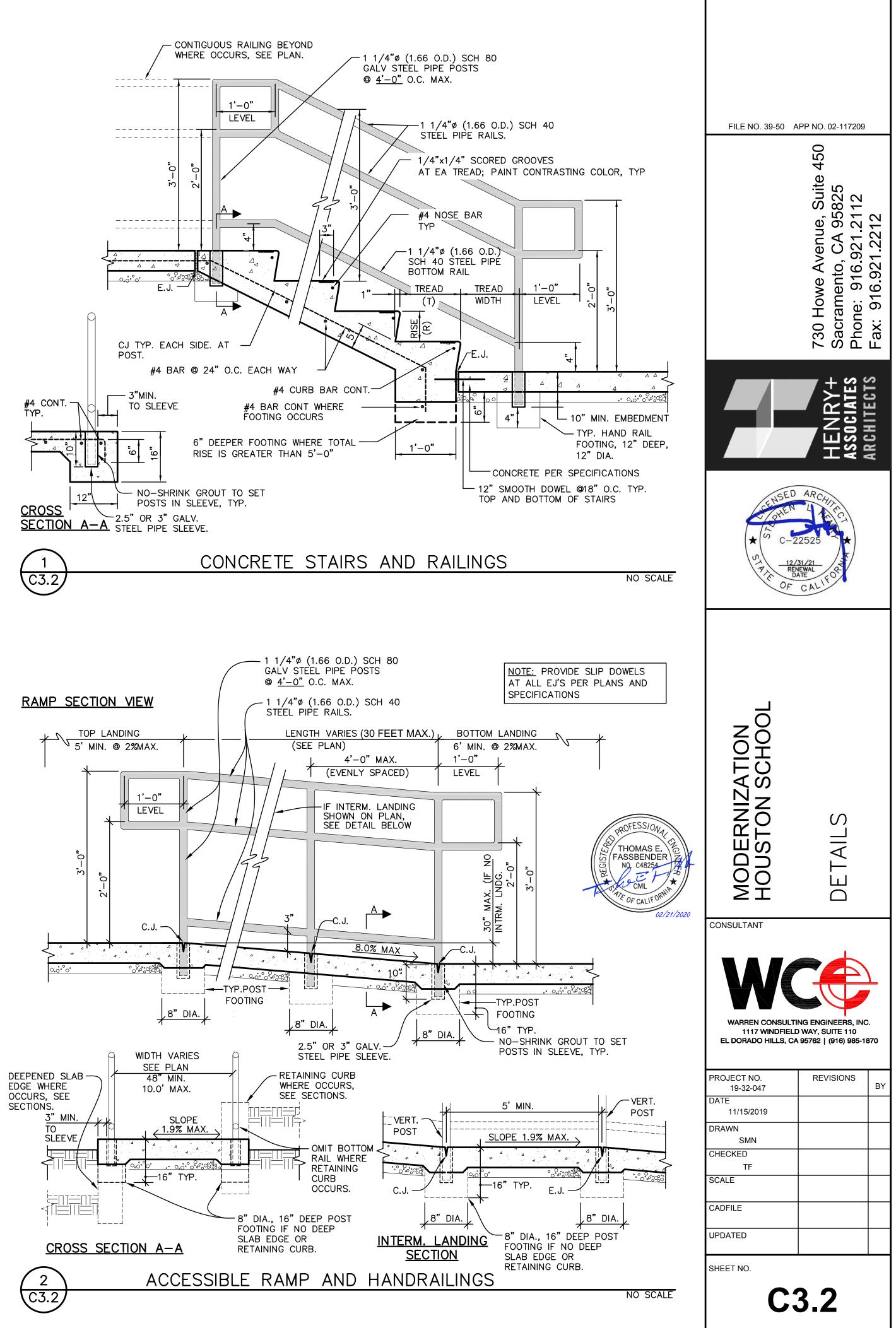








OF ____ SHEETS



- 1. All work shall conform to the 2016 edition, Title 24, California Code of Regulations
- 2. Change to the approved drawings and specifications shall be made by addenda or construction change document (CCD) approved by DSA, as required by Section 4-338, Part 1, Tile 24, CCR
- 3. A "DSA Certified" project inspector employed by the District (owner) and approved by DSA shall provide continuous inspection of the work. The duties of the inspector are defined in Section 4-342, Part 1, Title 24, CCR. Class 2 inspector
- 4. A DSA accepted testing laboratory directly employed by the District (owner) shall conduct all of the required tests and inspections for the project
- 5. The intent of these drawings and specifications is that the work of the alteration, rehabilitation or reconstruction is to be in accordance with Title 24, CCR. Should any existing conditions such as deterioration or non-complying construction be discovered which is not covered by the Contract Documents wherein the finished work will not comply with Title 24, CCR, a construction change document (CCD), or a separate set of plans and specifications, detailing and specifying the required work shall be submitted to and approved by DSA before proceeding with the work (Section 4-317(c), Part 1, Title 24, CCR
- 6. Grading plans, drainage improvements, road and access requirements and environmental health considerations shall comply with all local ordinances
- 7. When project is located in a flood zone other than Zone X a letter stamped and signed from a soils engineer is needed to validate the allowable soil values meet the specifications on the PC drawings

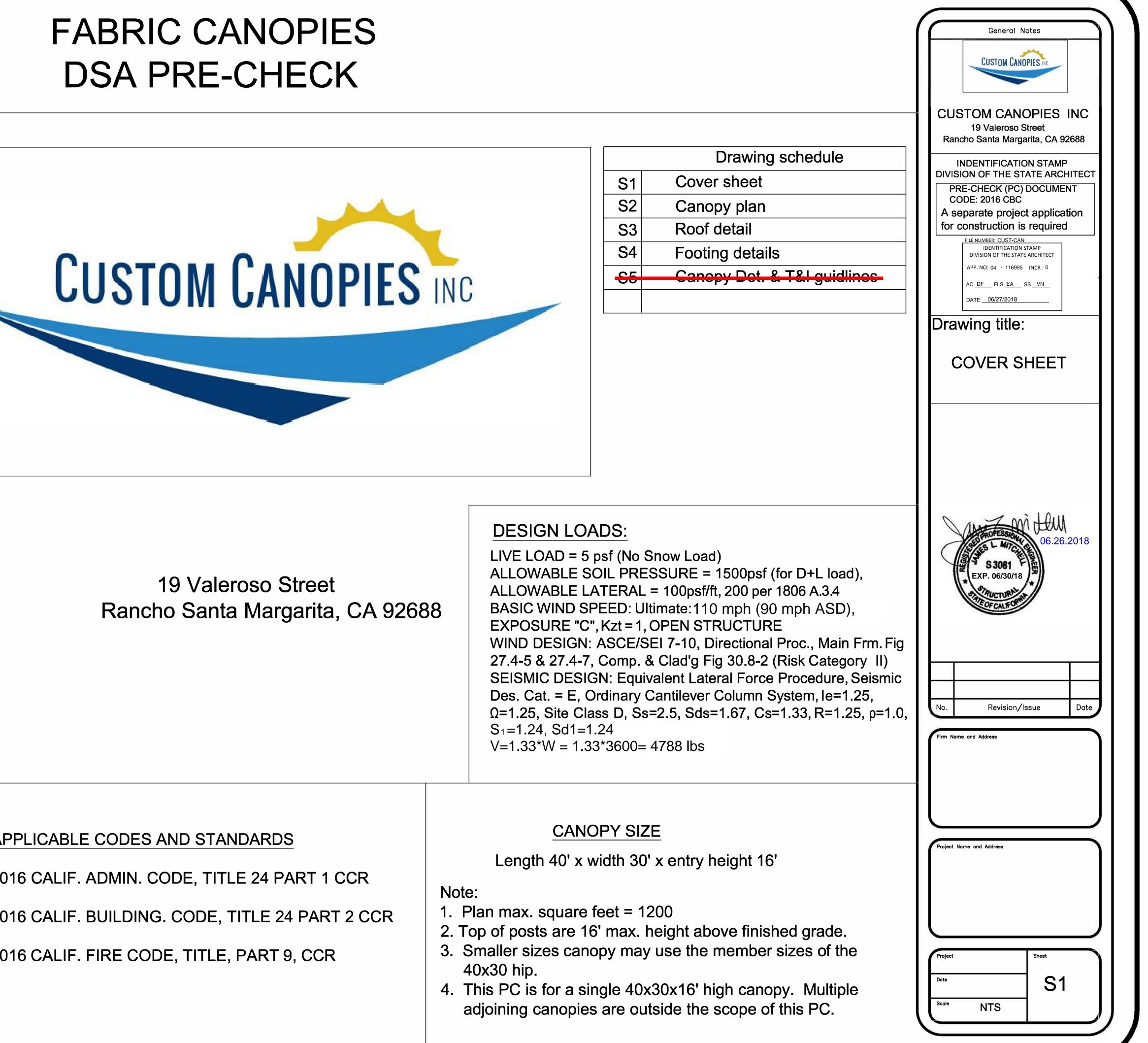
BUILDING ANALYSIS DATA: OCCUPANCY GROUP :A3	
Max OLF = 7sq/f per person	AP
Max. Occupancy = 171 people	20
CONSTRUCTIOIN TYPE:V-B	20

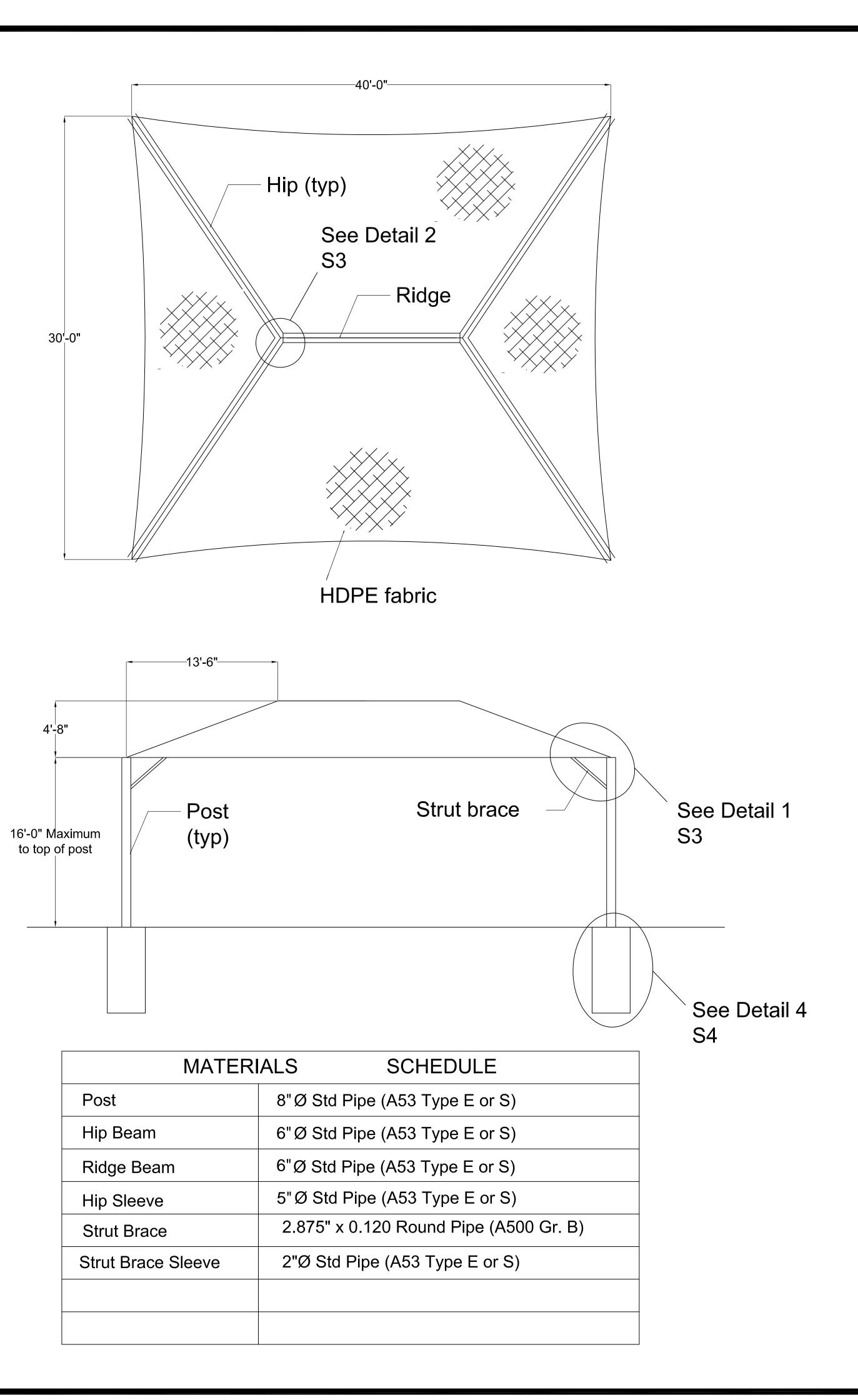
ALLOWABLE AREA: 1200 SF

NOTE: The location of these canopies adjacent to other buildings is subject to site specific appoval

016 CALIF. BUILDING. CODE, TITLE 24 PART 2 CCR

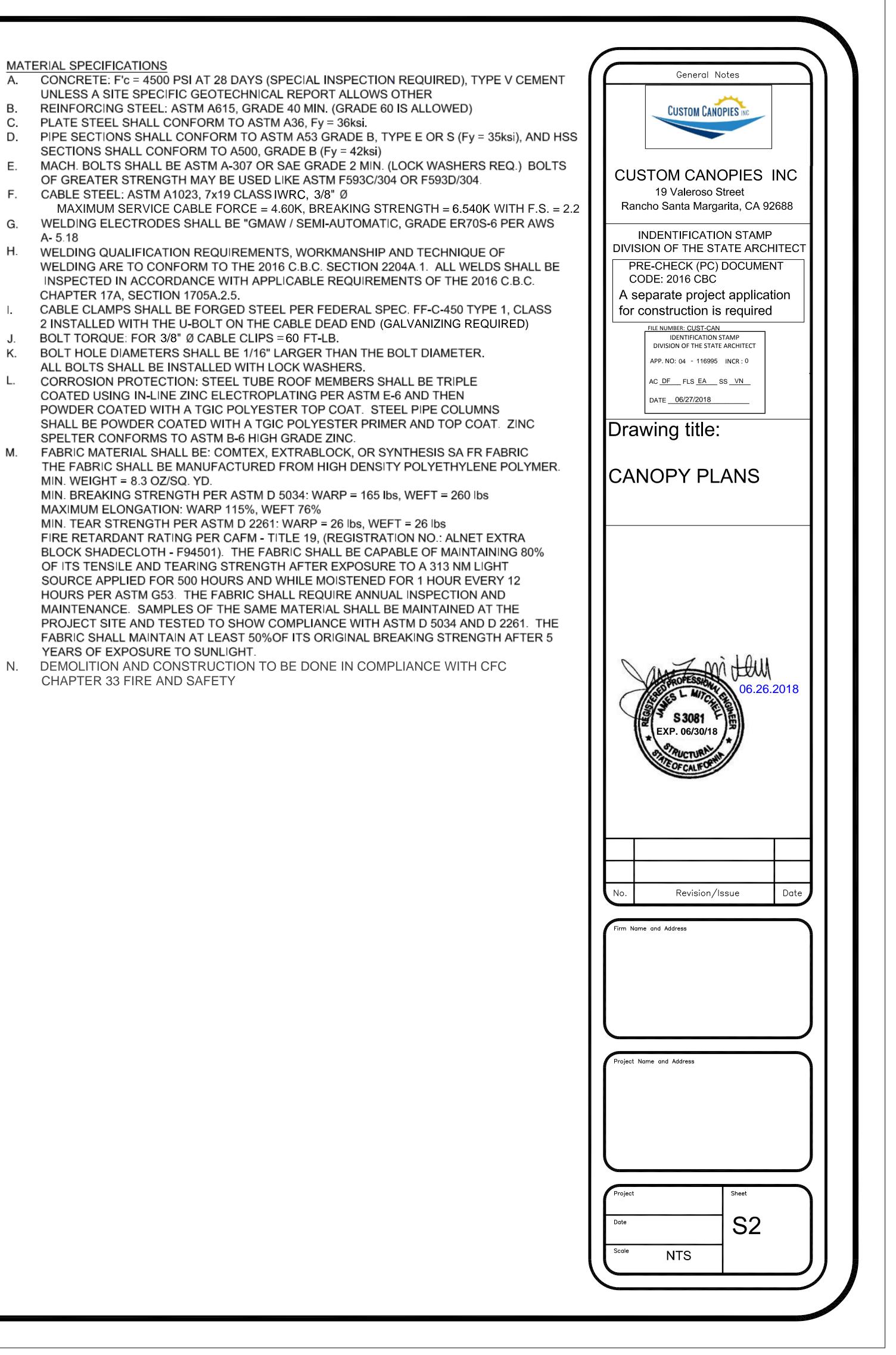
2016 CALIF. FIRE CODE, TITLE, PART 9, CCR

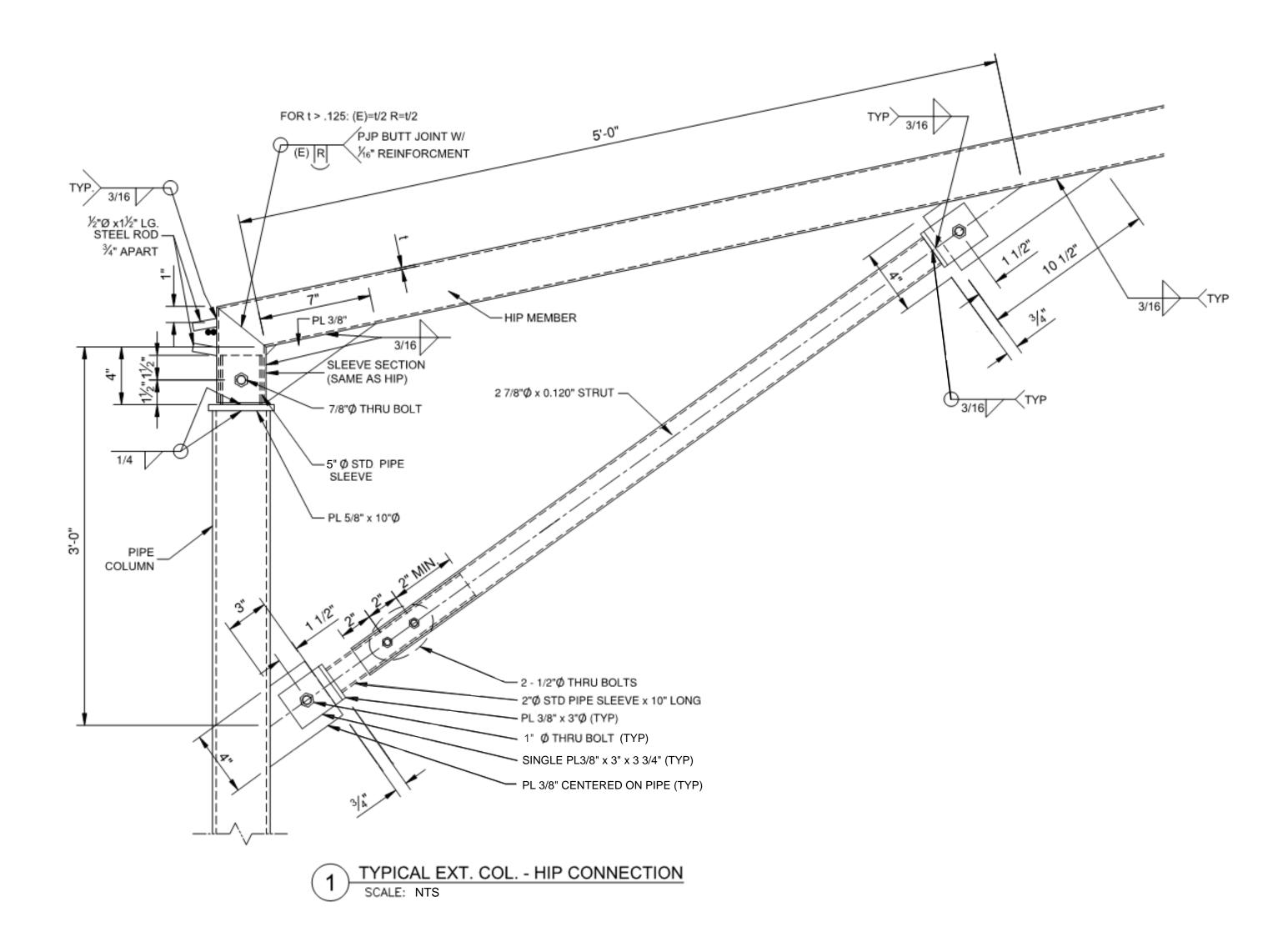


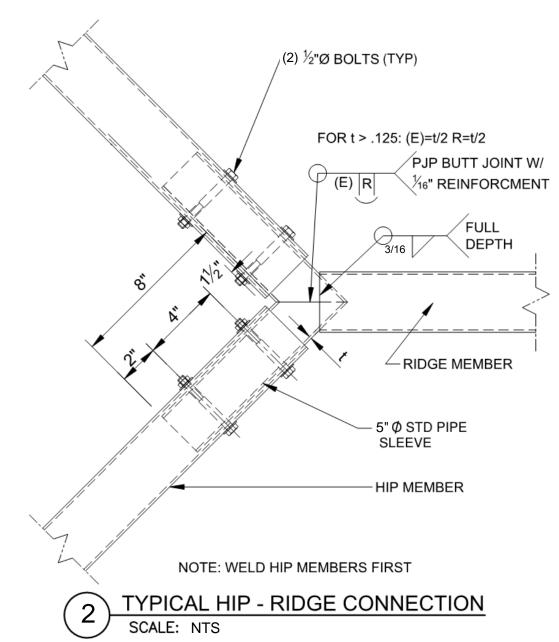


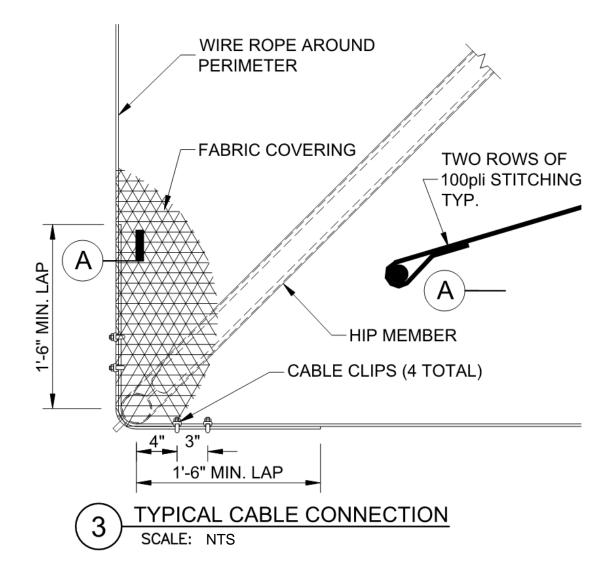
MATERIAL SPECIFICATIONS

- Α. UNLESS A SITE SPECIFIC GEOTECHNICAL REPORT ALLOWS OTHER
- REINFORCING STEEL: ASTM A615, GRADE 40 MIN. (GRADE 60 IS ALLOWED) В.
- PLATE STEEL SHALL CONFORM TO ASTM A36, Fy = 36ksi. C.
- D. SECTIONS SHALL CONFORM TO A500, GRADE B (Fy = 42ksi)
- OF GREATER STRENGTH MAY BE USED LIKE ASTM F593C/304 OR F593D/304. F. CABLE STEEL: ASTM A1023, 7x19 CLASS IWRC, 3/8" Ø
- A- 5.18
- WELDING QUALIFICATION REQUIREMENTS, WORKMANSHIP AND TECHNIQUE OF Η. CHAPTER 17A, SECTION 1705A.2.5.
- BOLT TORQUE: FOR 3/8" Ø CABLE CLIPS = 60 FT-LB. BOLT HOLE DIAMETERS SHALL BE 1/16" LARGER THAN THE BOLT DIAMETER. Κ.
- ALL BOLTS SHALL BE INSTALLED WITH LOCK WASHERS. CORROSION PROTECTION: STEEL TUBE ROOF MEMBERS SHALL BE TRIPLE
- COATED USING IN-LINE ZINC ELECTROPLATING PER ASTM E-6 AND THEN POWDER COATED WITH A TGIC POLYESTER TOP COAT. STEEL PIPE COLUMNS SPELTER CONFORMS TO ASTM B-6 HIGH GRADE ZINC.
- М. MIN. WEIGHT = 8.3 OZ/SQ. YD. MIN. BREAKING STRENGTH PER ASTM D 5034: WARP = 165 lbs, WEFT = 260 lbs MAXIMUM ELONGATION: WARP 115%, WEFT 76% MIN. TEAR STRENGTH PER ASTM D 2261: WARP = 26 lbs, WEFT = 26 lbs OF ITS TENSILE AND TEARING STRENGTH AFTER EXPOSURE TO A 313 NM LIGHT HOURS PER ASTM G53 THE FABRIC SHALL REQUIRE ANNUAL INSPECTION AND YEARS OF EXPOSURE TO SUNLIGHT.
- N. DEMOLITION AND CONSTRUCTION TO BE DONE IN COMPLIANCE WITH CFC CHAPTER 33 FIRE AND SAFETY

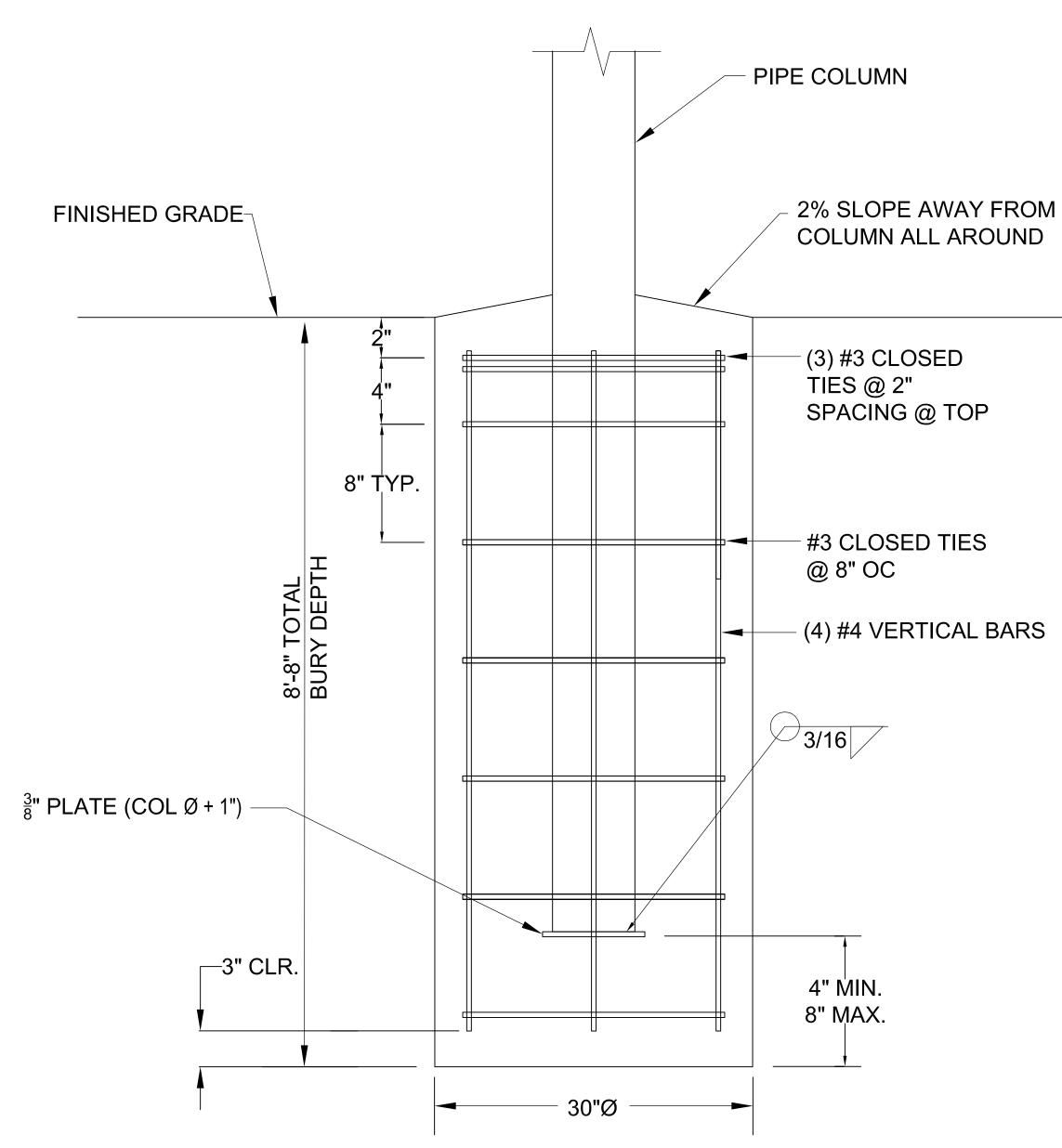








CUSTOM CANOPIES INC	
CUSTOM CANOPIES INC 19 Valeroso Street Rancho Santa Margarita, CA 92688	
INDENTIFICATION STAMP DIVISION OF THE STATE ARCHITECT PRE-CHECK (PC) DOCUMENT CODE: 2016 CBC A separate project application for construction is required <u>FILE NUMBER: CUST-CAN</u> <u>IDENTIFICATION STAMP</u> DIVISION OF THE STATE ARCHITECT APP. NO: 04 - 116995 INCR : 0 AC _DF _ FLS EA _ SS _VN DATE _ 06/27/2018	
ROOF DETAILS	
of the source of	
No. Revision/Issue Date	
Firm Name and Address	
Project Name and Address	
Project Sheet	
Date Sneet	
Scale NTS	



TYPICAL NON - CONSTRAINED FOOTING CONDITION

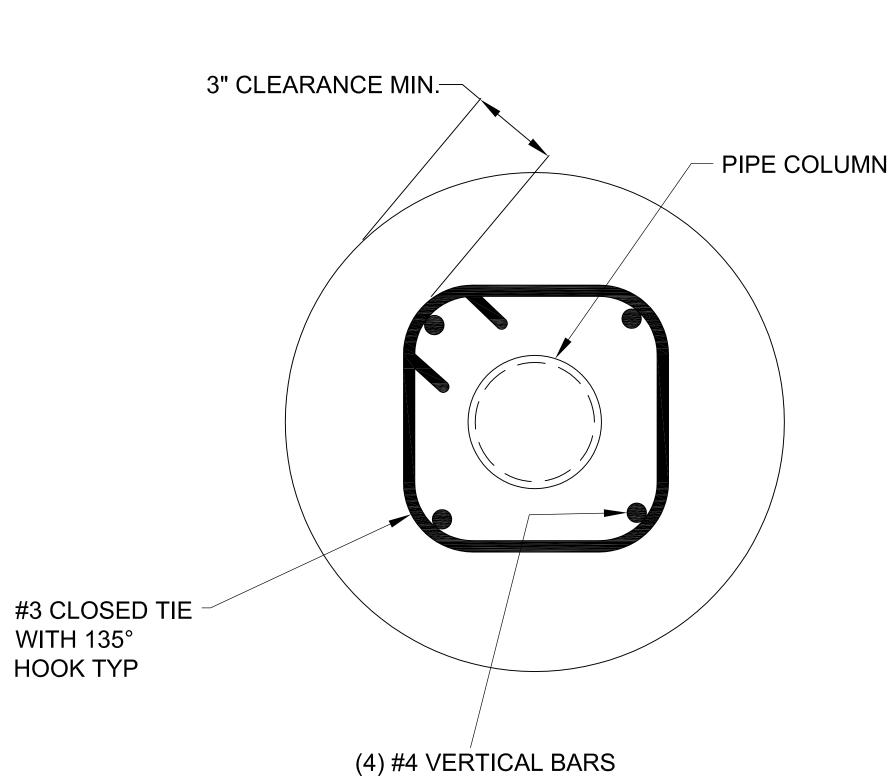
TOP OF EACH FOOTING/POST BASE @ GRADE LEVEL 2. REACTIONS INDICATED ABOVE, EXCLUDING DEAD AND ROOF LIVE, CAN OCCUR IN ANY DIRECTION (+/-) SIMULTANEOUSLY. DEAD LOAD AND ROOF LIVE LOAD REACTIONS ALWAYS ACT DOWNWARD AND MOMENTS ARE ALWAYS EQUAL AND IN OPPOSING DIRECTIONS RELATIVE TO EACH OTHER

	X-SHEAR (K)	AXIAL (K)	Z-SHEAR (K)	Mx (K-FT)	Mz (K-FT)
DEAD (SERVICE)					
	0.19	0.90	0.23	1.71	1.27
ROOF LIVE (SERVICE)					
	0.30	2.04	0.60	4.73	0.03
X-WIND (SERVICE)					
	1.89	0.46	1.64	15.98	19.01
Z-WIND (SERVICE)					
	1.70	0.58	1.38	11.19	17.31
X-SEISMIC (SERVICE)					
	0.80	0.32	0.26	3.63	7.64
Z-SEISMIC (SERVICE)					
	0.22	0.37	0.81	7.56	1.73

FOUNDATION REACTION TABLE

TYPICAL PLAN VIEW OF FOOTING DETAIL

NOTES



1. REACTIONS INDICATED ABOVE ARE WORST-CASE SERVICE LOAD REACTIONS THAT CAN OCCUR AT THE

