

ADDENDUM TO THE CONTRACT DOCUMENTS

	ADDENDUM NO. 02
	Project: Solano Community College District Early College High School Portables Project Project Number: 20-012
	Date: June 23, 2020

Addendum No. 02 – The following clarifications are provided and must be added/considered when completing your bid: Acknowledgement of receipt of this **ADDENDUM No. 02** and **all previous addenda**, is required on the Bid Form. Please clearly note the addendum date and number.

ITEM NO. 1 – Modifications to the Project Documents

- 1** One projector mount shall be mounted above the ceiling in each classroom. Coordinate Location with the District. The projector mount shall be Peerless-AV CMJ500R1. See sheet AS2 and detail 1B/AS3.
- 2** Revised Building Grounding Detail G, to show building electrical panel as an interior mounted panel. Revised Typ. Conduit to IDF Detail J to show only the 12 strand single mode fiber optic cable in 1-1/2" conduit. See sheet E1.2.
- 3** Revised Fire Alarm Scope of Work. See sheet E1.3.
- 4** Revised Numbered Notes 11 and 13 to have 1" inner duct in lieu of 1-1/2". Added to Numbered Note 6 to direct contractor to x-ray the concrete slab and coordinate conduit routing in field with General Contractor (G.C.), Construction Manager (C.M.) and College District Electrical Department. See sheet E2.0.
- 5** Revised Enlarged Power Plan A/E3.0. Added a ceiling receptacle for a projector in each Portable Classroom and added Numbered Note 12. Revised Numbered Note 4 informing contractor to install a 20 amp, 120 volt, 1 phase in electrical panel for projector. Revised Numbered Note 6 informing the contractor to provide new IDF cabinet, fan kit and install on plywood backboard per detail C/E1.1. Revised Enlarged Signal Plan B/E3.0. Revised ceiling data cabling to (2) CAT6A cables in lieu of (1) CAT6 and (1) CAT6A cable. Revised the number of data cables at the back of the classroom, on the East and West walls to (4) data cables in lieu of (2) data cables per

College District IT Department request. Added an exterior wireless access panel (WAP) enclosure and CAT6A data cable. Added Numbered Note 13 to address the exterior WAP enclosure. See sheet E3.0.

- 6 Revised the Data Communication spec to reflect the IDF rack manufacturer and model number the College District IT Department requested to be installed for this project. See sheet E4.3.

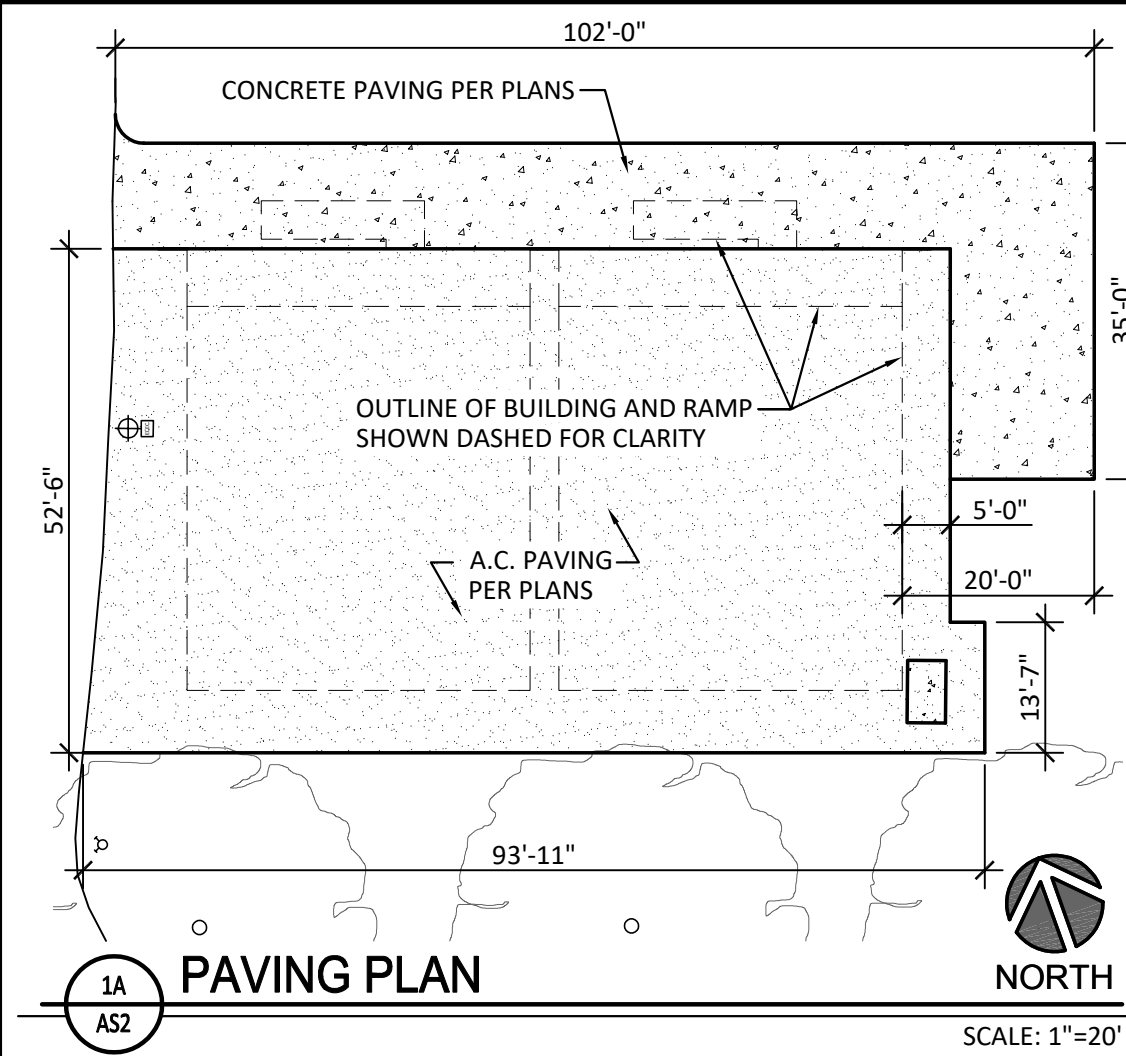
ITEM NO. 2 – Responses to Questions Submitted

No questions submitted.

List of Attachments: Sheets AS2, AS3, E1.2, E1.3, E2.0, E3.0, and E4.3

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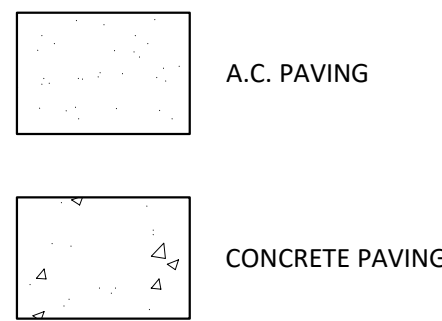
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GENERAL NOTES

- FOR EXTENTS OF PAVING UNDER BUILDINGS AND RAMP, SEE ALSO 1A AS2
- SAWCUT CONCRETE WALKS FOR UNDERGROUND LOW VOLTAGE CABLE. REPLACE CONCRETE WALK TO MATCH (E). COMPACT BASE TO 95% DOWEL NEW TO (E) PER 4D AS3

LEGEND



SITE PLAN KEYNOTES

- S1 2" A.C. PAVING OVER 6" CLASS 2 AGGREGATE BASE COMPACTED TO 95%. PROVIDE SLOPE FOR DRAINAGE ACROSS ENTIRE PAD.
- S2 CONCRETE PAVING. SEE 5D AS3
- S3 (E) SANITARY SEWER LINE. F.V. LOCATION
- S4 (E) WATER LINE. F.V. LOCATION
- S5 (E) CONCRETE PAVING TO REMAIN
- S6 (E) TURF TO REMAIN. SEE DISTURBED AREAS TO MATCH (E)
- S7 (E) LIGHT POLE FIXTURE TO REMAIN
- S8 (E) IN-GROUND ELECTRICAL BOX TO REMAIN
- S9 (E) TREE. TRIM BRANCHES THAT OVERHANG BUILDING. CONSULT WITH A LICENSED ARBORIST. COORDINATE WITH DISTRICT
- S10 NOT USED
- S11 6'-0" HIGH CHAINLINK FENCE. SEE 4C AS3
- S12 3'-0" WIDE CHAINLINK GATE. SEE 5C AS3
- S13 T1-11 PLYWOOD CLOSURE PANEL FROM 1" ABOVE PAVING TO UNDER SOFFIT ABOVE. PAINT TO MATCH BLDG.
- S14 MATCH (E) GRADE
- S15 FLUSH TRANSITION
- S16 ROOM IDENTIFICATION SIGN WITH 18"x18" FLOOR CLEARANCE. SEE SPECS AND 4B AS3
- S17 EXIT SIGNAGE WITH 18"x18" FLOOR CLEARANCE. SEE SPECS AND 5B AS3
- S18 WILLIAMS SCOTSMAN MODULAR CLASSROOM BUILDING WITH ACCESSIBLE RAMP AND LANDING. SEE ATTACHED PC DRAWINGS.
- S19 (E) FIRE HYDRANT
- S20 MODIFY (E) IRRIGATION SYSTEM AS REQUIRED TO MAINTAIN (E) LANDSCAPING. IRRIGATION PIPING AND HEADS TO MATCH (E). SEED DISTURBED AREA MIN. 5 FT. WIDE BAND AROUND PAVING WITH GRASS MIX TO MATCH TO (E)
- S21 TRANSFORMER AND DISTRIBUTION PANEL ON CONCRETE HOUSEKEEPING PAD. SEE ELECTRICAL SHEETS.
- S22 6'-0" LONG LEVEL LANDING AT BASE OF RAMP
- S23 OCCUPANT LOAD SIGN
- S24 8'W x 4'H WHITEBOARD. COORDINATE LOCATION WITH DISTRICT. SEE 3B AS3
- S25 PROJECTOR MOUNT ABOVE CEILING. COORDINATE LOCATION WITH DISTRICT. SEE 1B AS3

AREA / OCCUPANT LOAD ANALYSIS

PER DSA IR A-26 SECTION 1.1, GENERAL EDUCATION CLASSROOMS SHALL HAVE AN OCCUPANT LOAD FACTOR OF 20 (NET).

AREA/USE	S.F. (NET)	LOAD FACTOR	OCC LOAD TOTAL PER BLDG.
300A	1,368	1/20	69
300B	1,368	1/20	69

EXITING - BLDG. 300A

PER CBC 2019 1006.2.1, MINIMUM EXITS REQUIRED = 2
MIN. DOOR WIDTH REQUIRED = 32" CLEAR

EXITS PROVIDED = 2

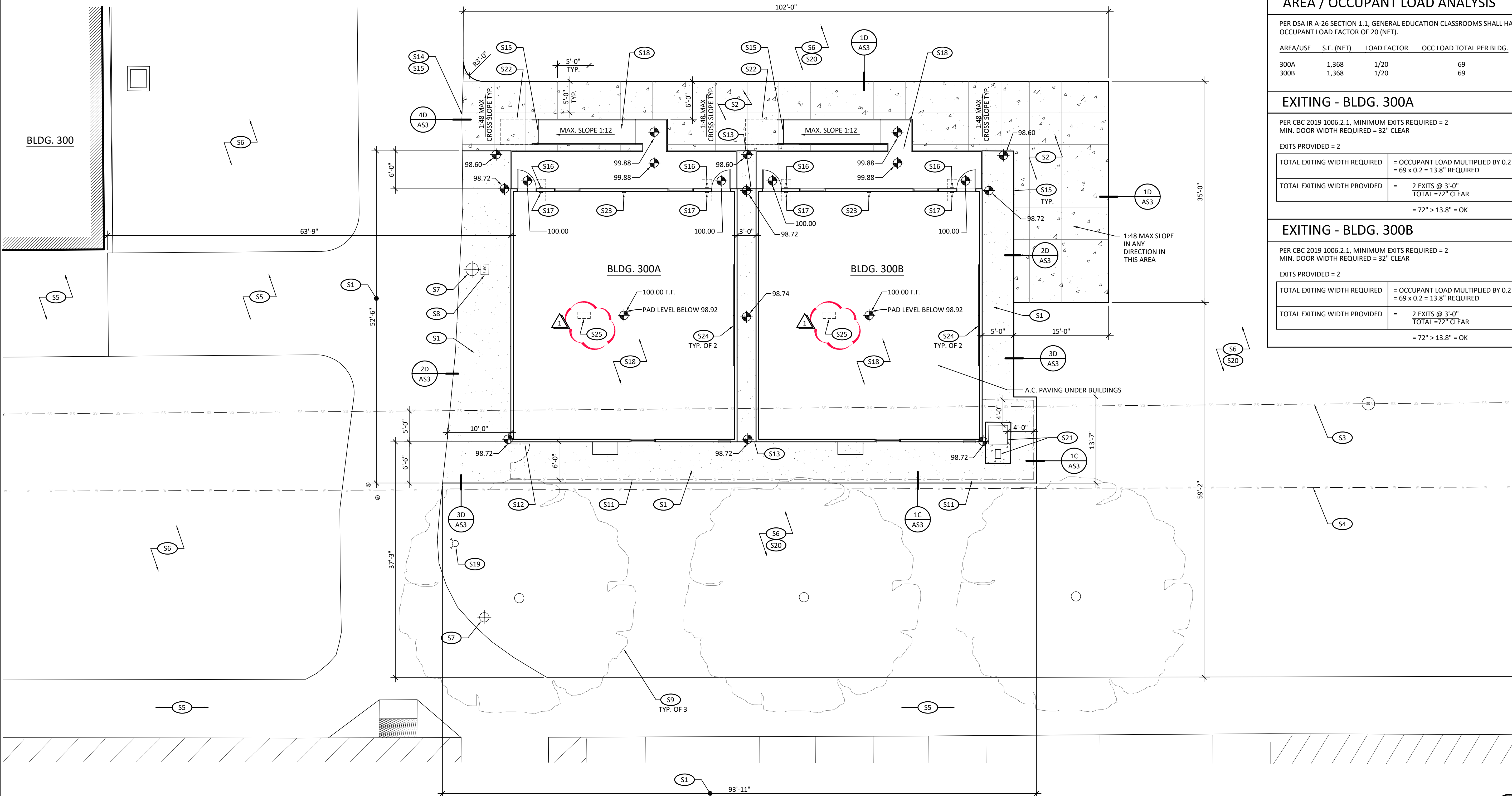
TOTAL EXITING WIDTH REQUIRED	= OCCUPANT LOAD MULTIPLIED BY 0.2 = 69 x 0.2 = 13.8" REQUIRED
TOTAL EXITING WIDTH PROVIDED	= 2 EXITS @ 3'-0" TOTAL = 72" CLEAR = 72" > 13.8" = OK

EXITING - BLDG. 300B

PER CBC 2019 1006.2.1, MINIMUM EXITS REQUIRED = 2
MIN. DOOR WIDTH REQUIRED = 32" CLEAR

EXITS PROVIDED = 2

TOTAL EXITING WIDTH REQUIRED	= OCCUPANT LOAD MULTIPLIED BY 0.2 = 69 x 0.2 = 13.8" REQUIRED
TOTAL EXITING WIDTH PROVIDED	= 2 EXITS @ 3'-0" TOTAL = 72" CLEAR = 72" > 13.8" = OK



ENLARGED SITE PLAN

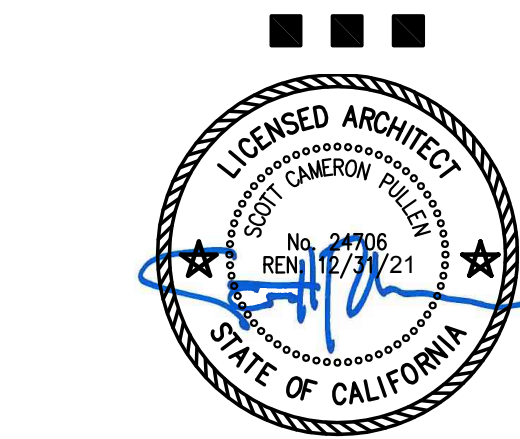


SCALE: 1/8"=1'-0"



HMR ARCHITECTS

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DSA #02-118411

FILE #48-C1

**EARLY COLLEGE
HIGH SCHOOL
PORTABLES**

**SOLANO COMMUNITY
COLLEGE**

**4000 SUISUN VALLEY RD.
FAIRFIELD, CA 94534**

DSA SUBMITTAL SET

REVISIONS

NO.	DESCRIPTION	DATE
1	ADDENDUM 2	6/22/2020

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ENLARGED SITE PLAN

JUNE 1, 2020

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AS2



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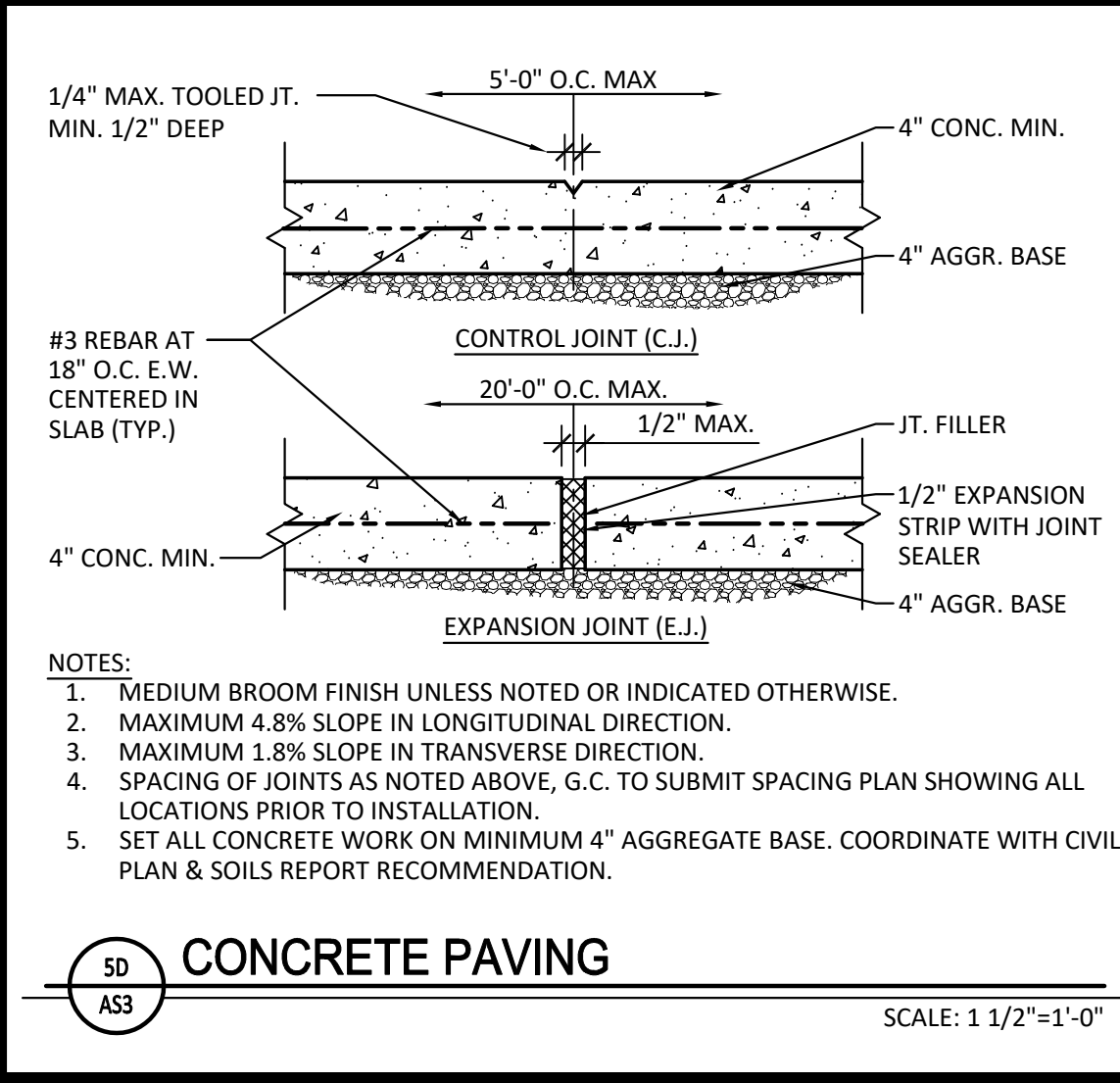
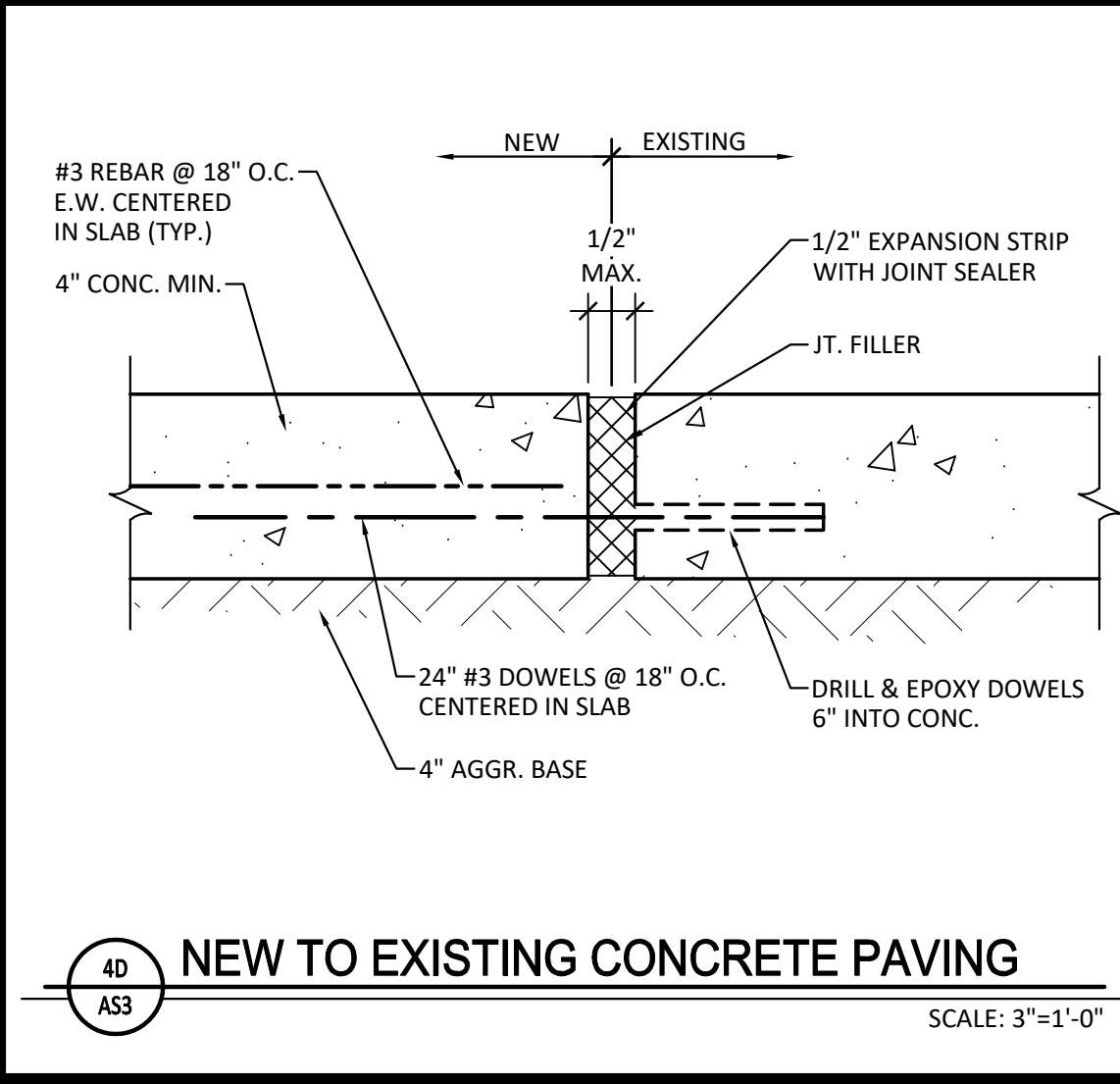
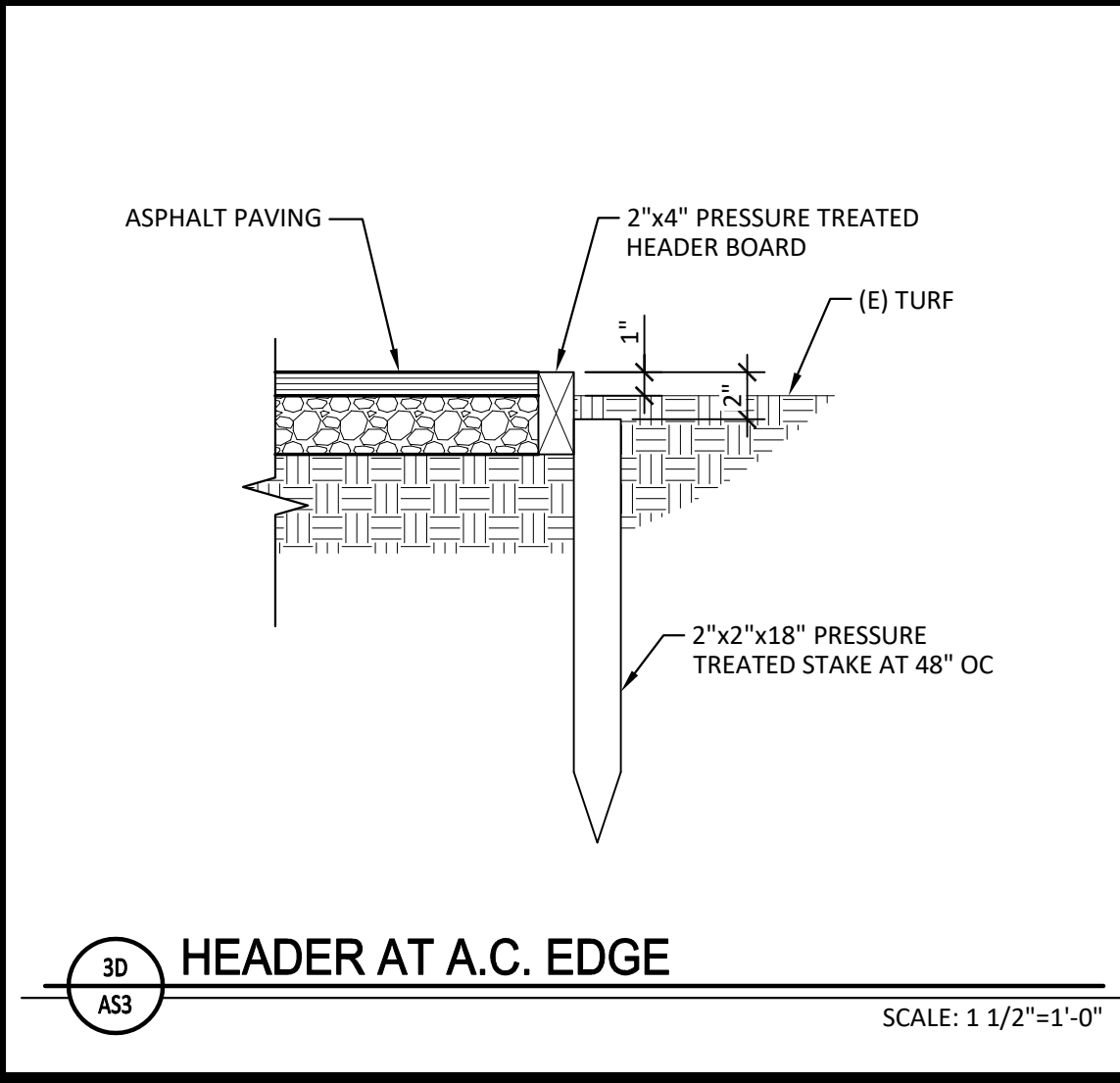
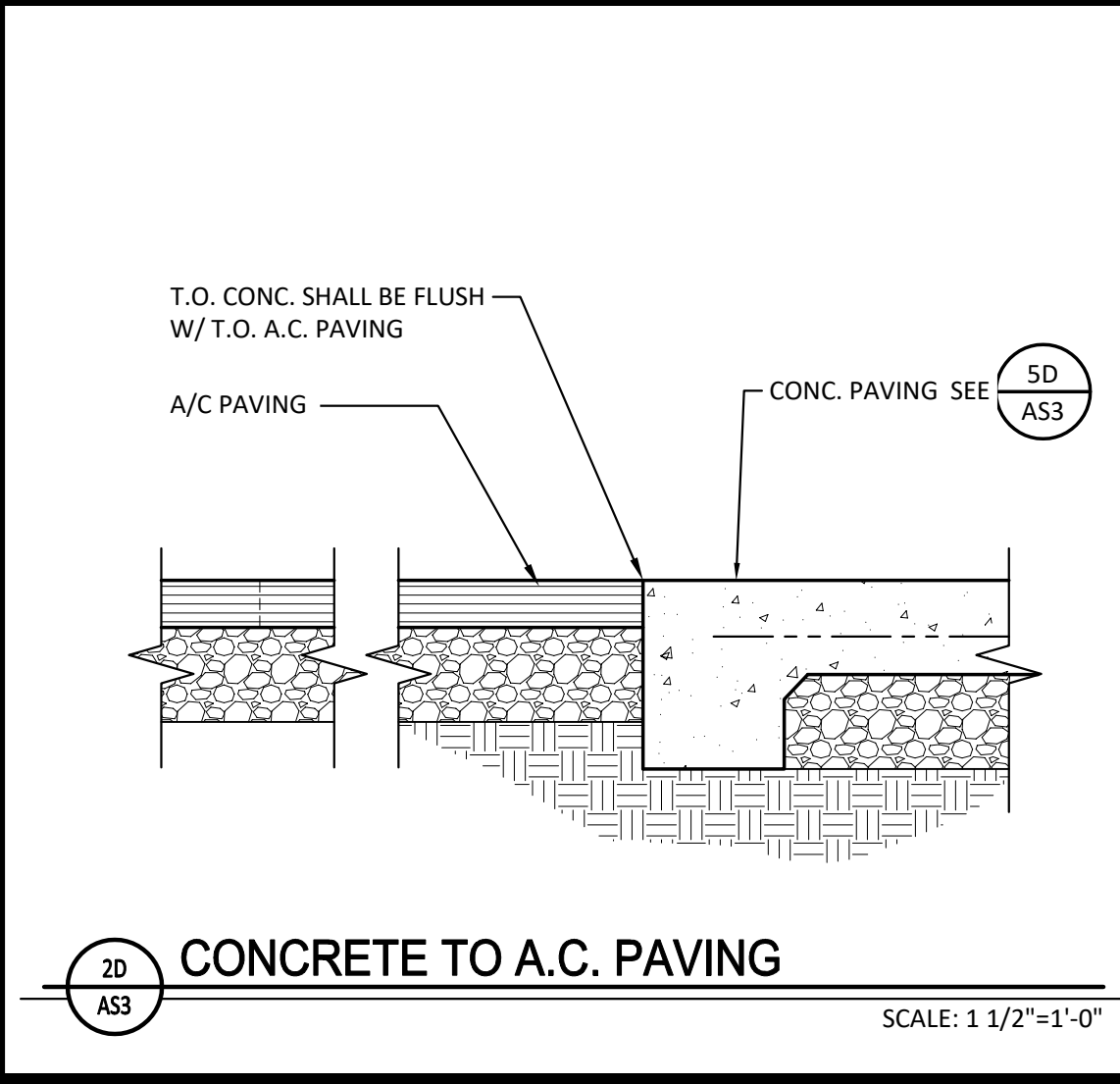
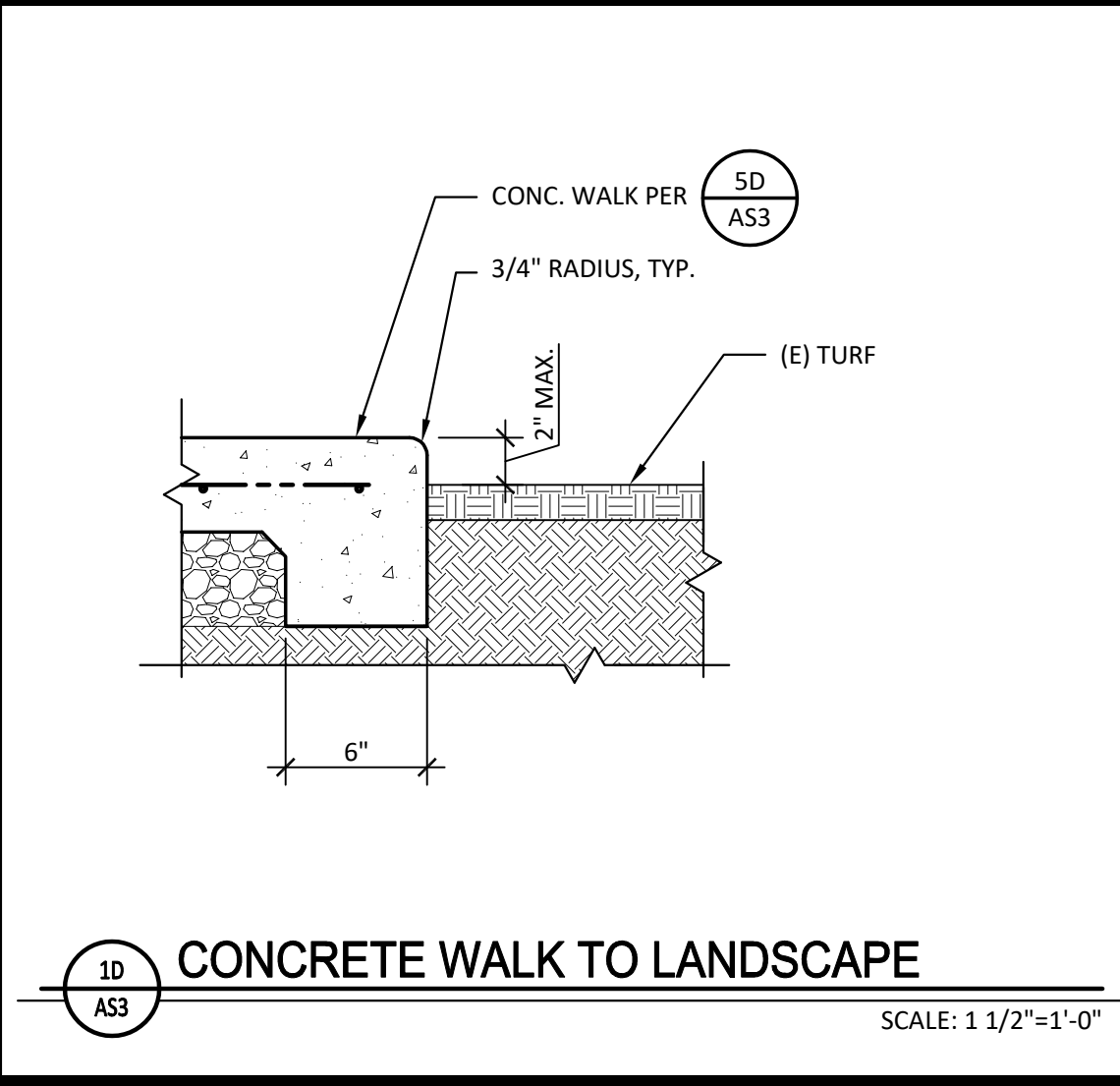
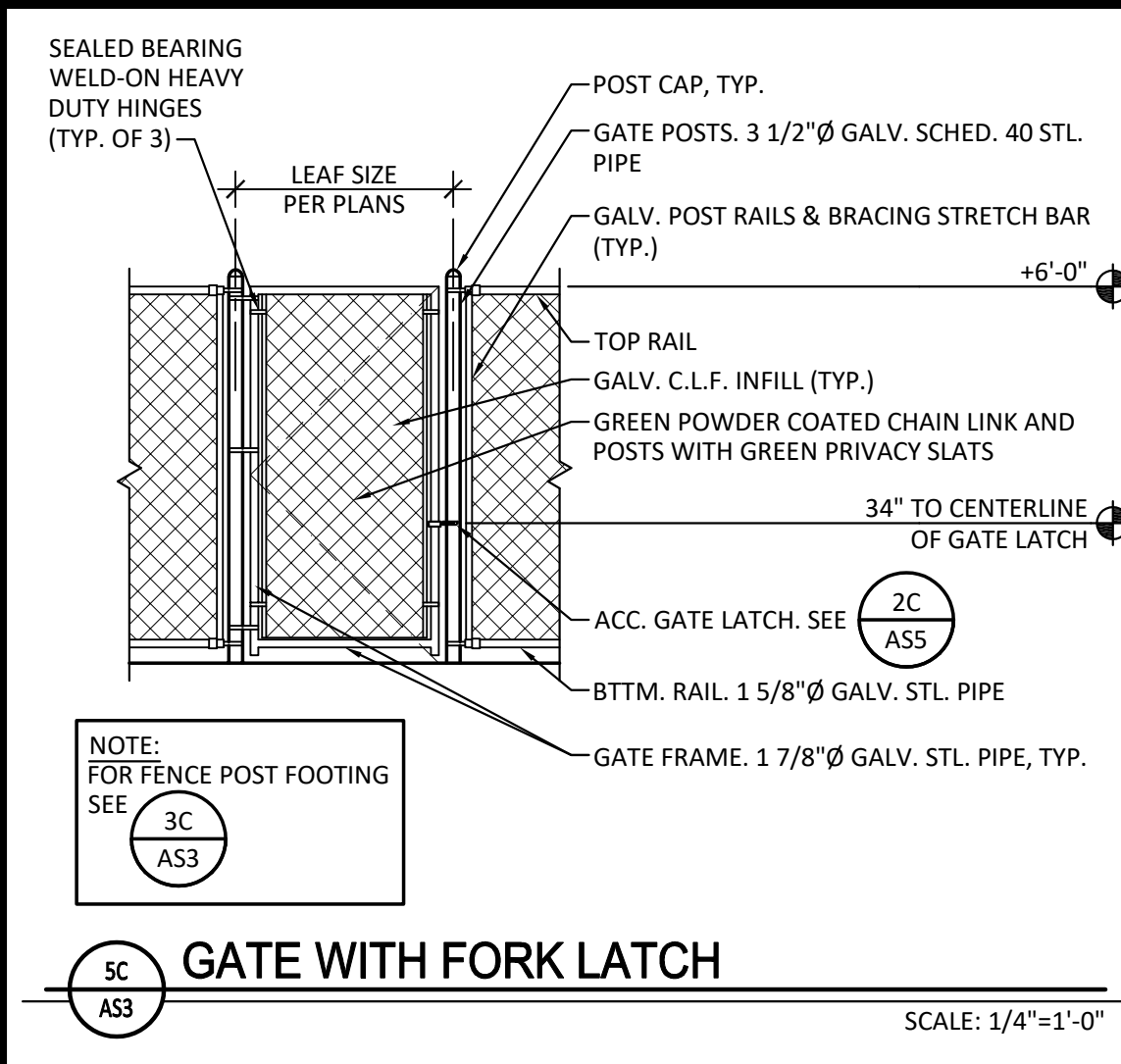
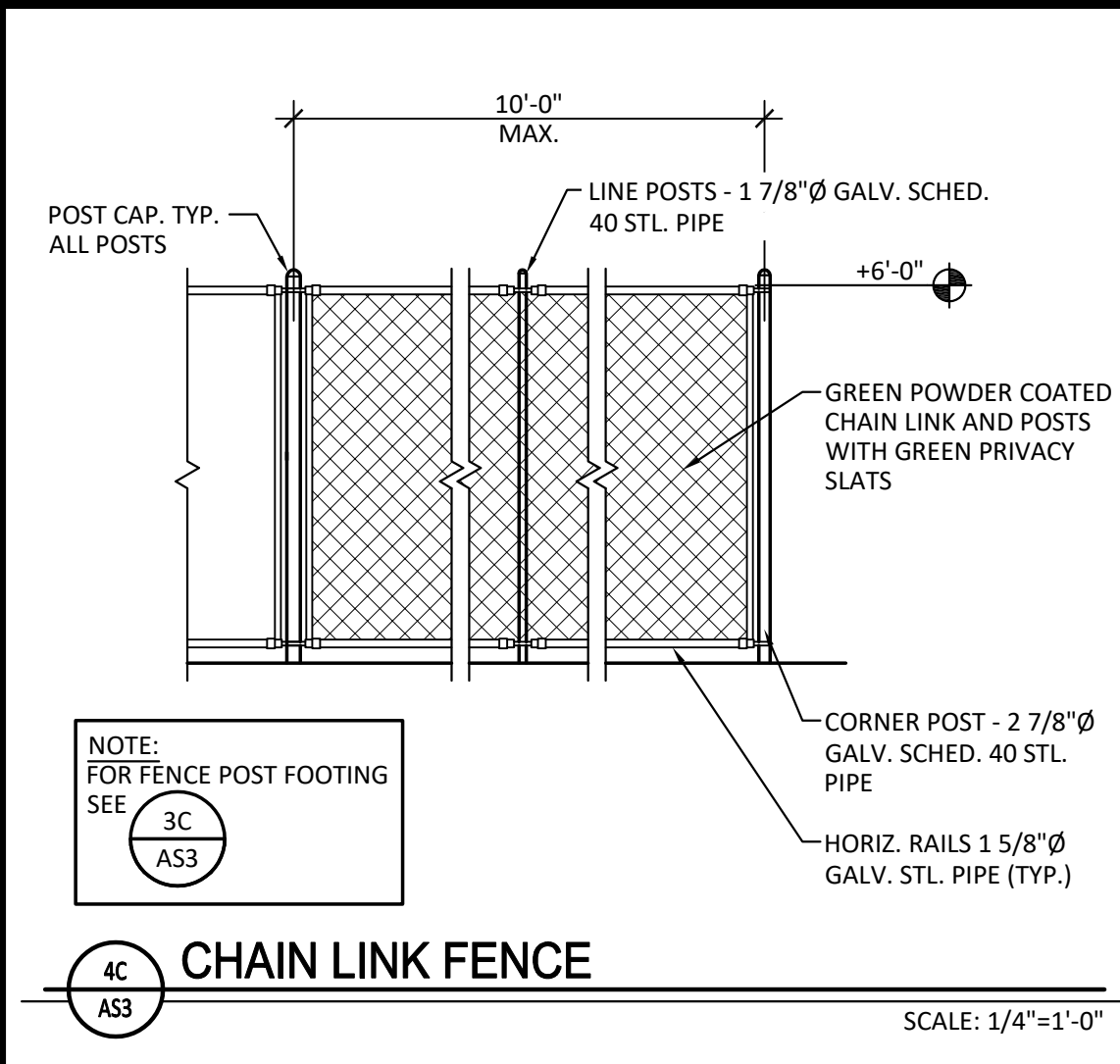
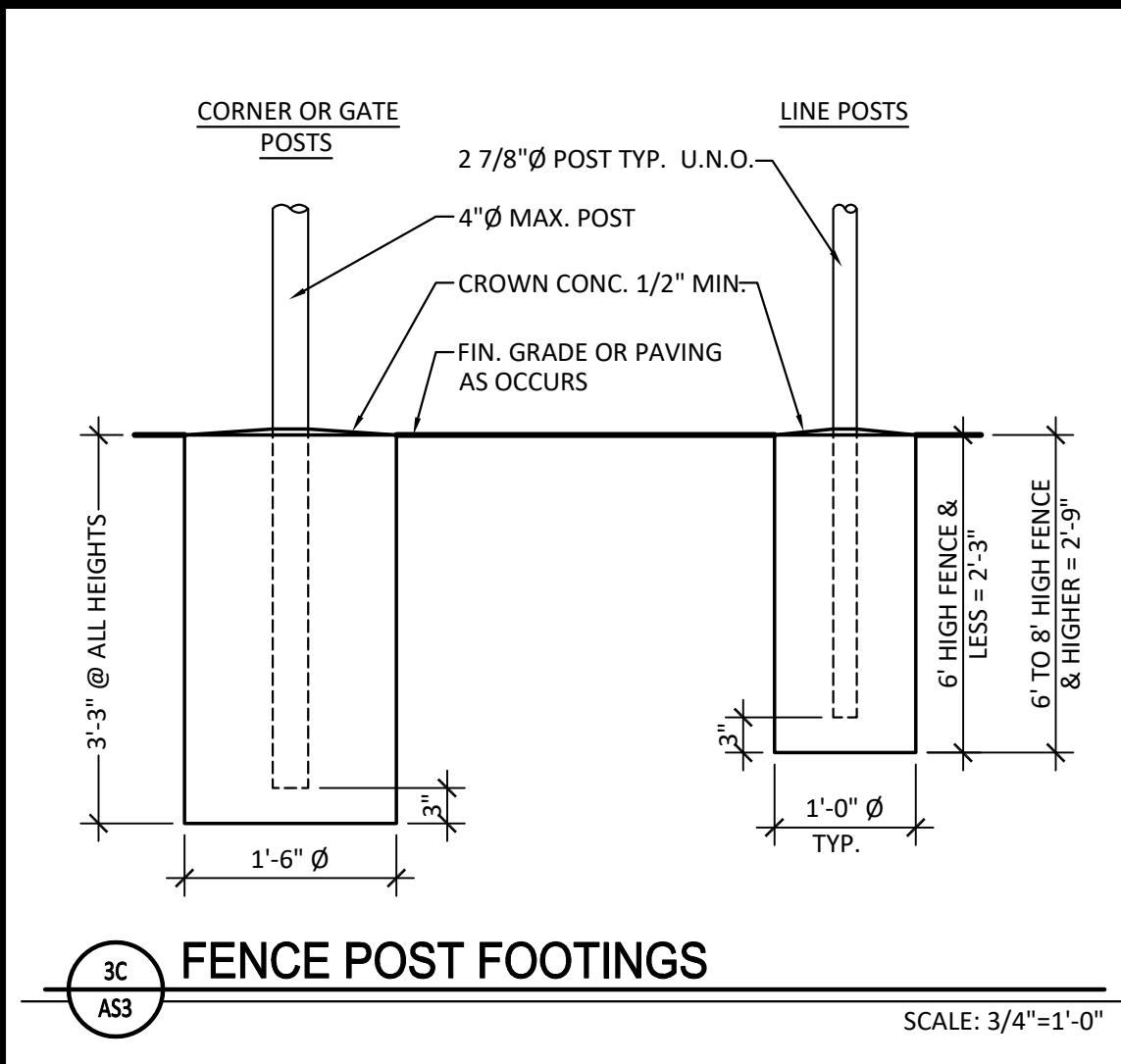
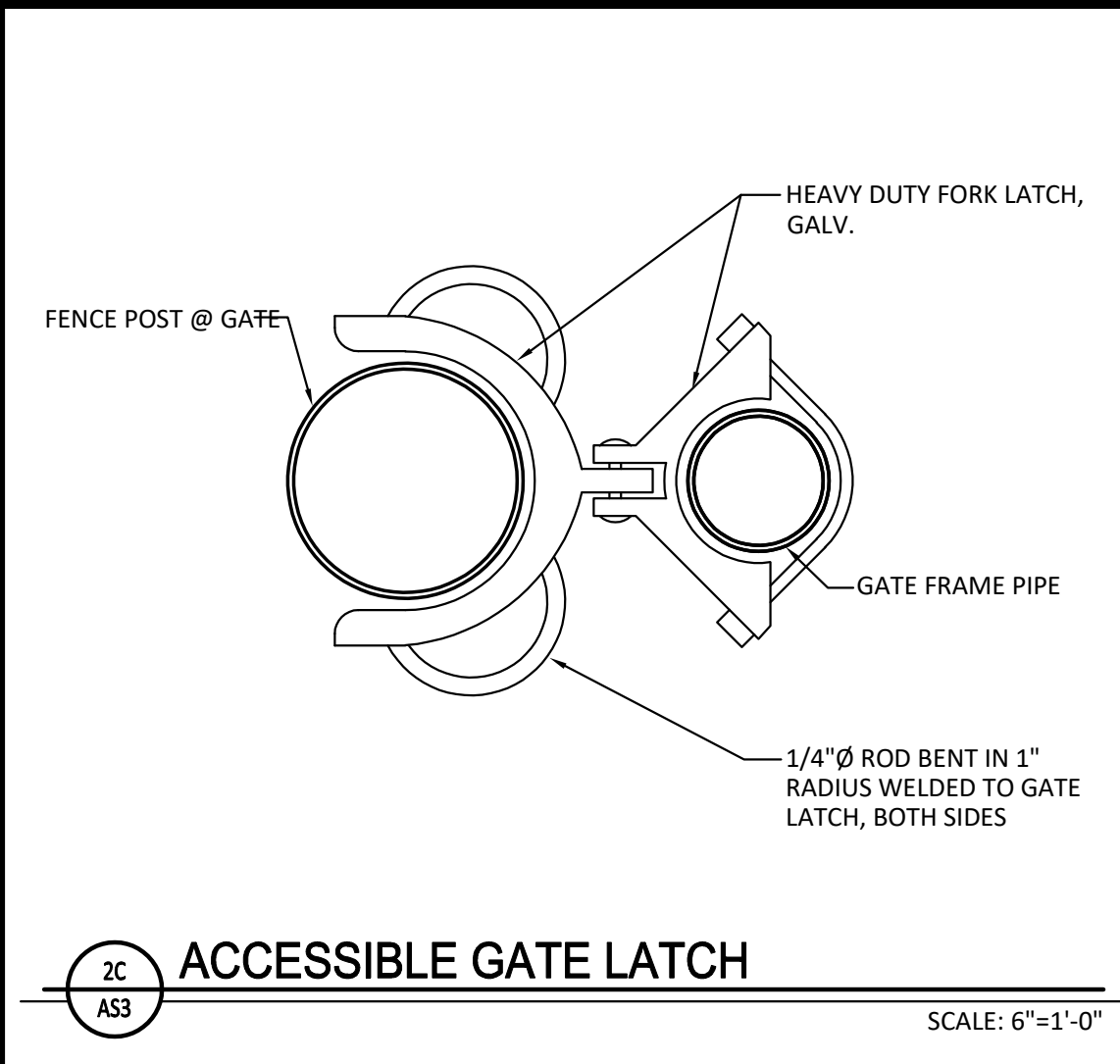
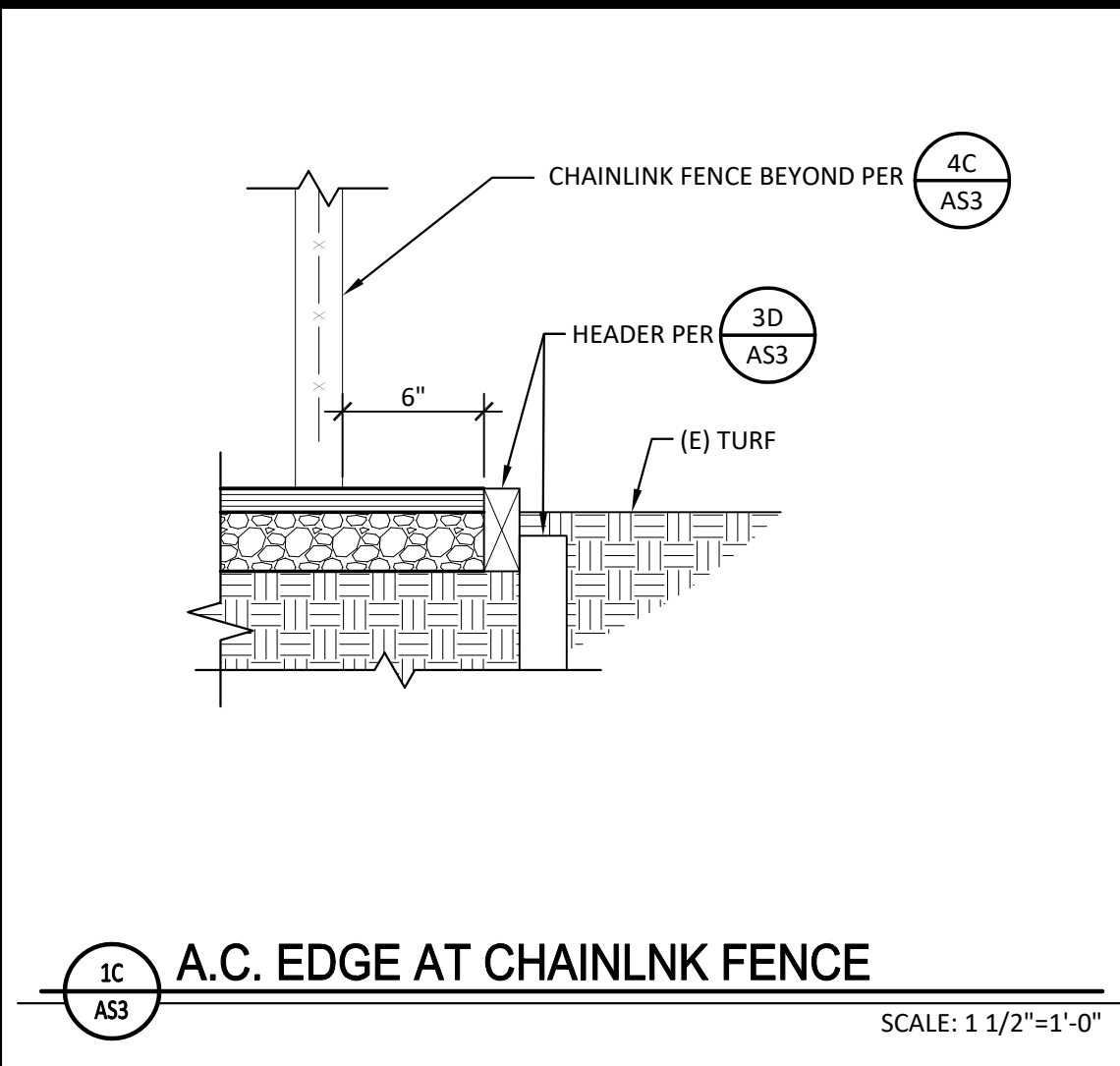
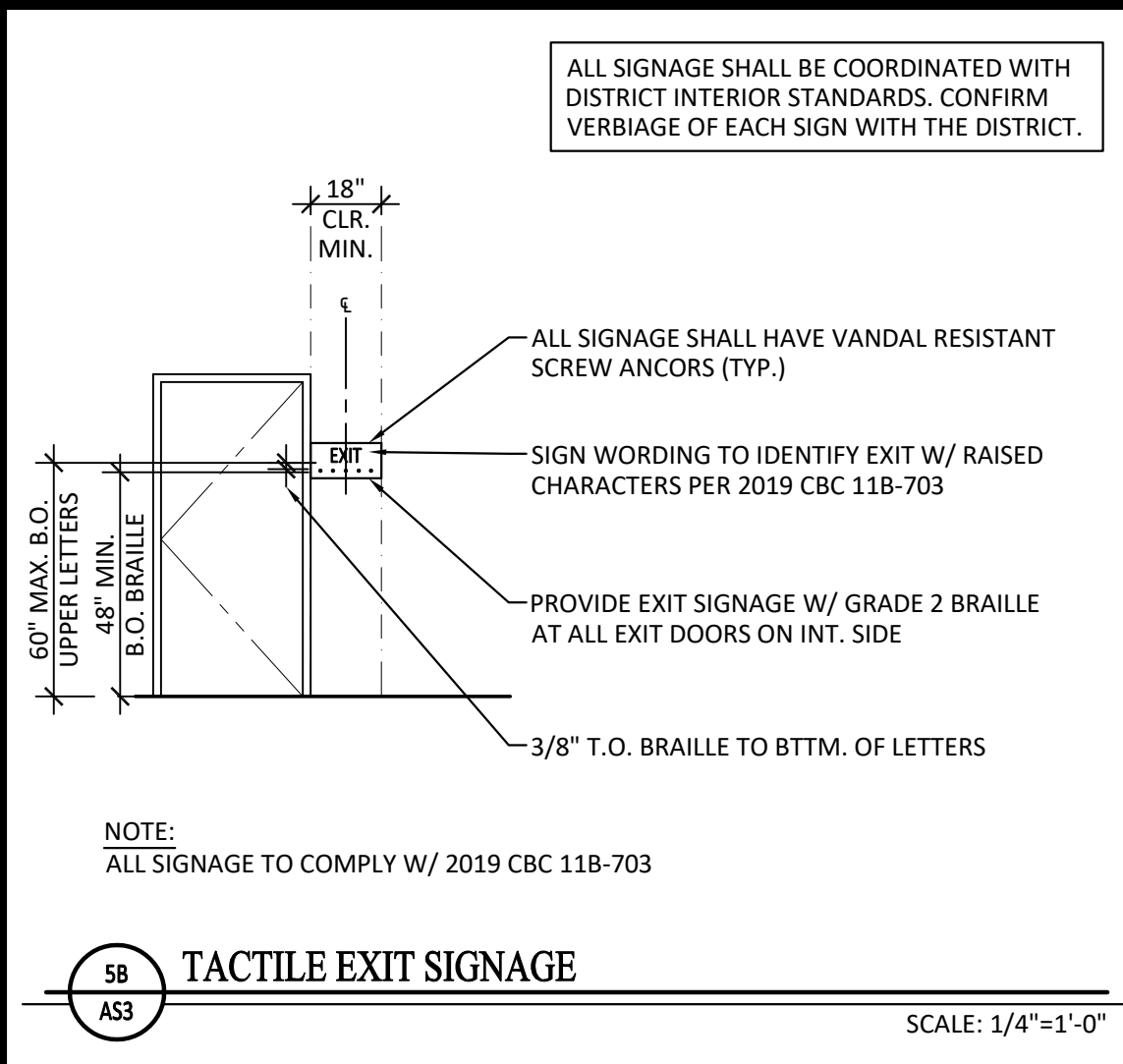
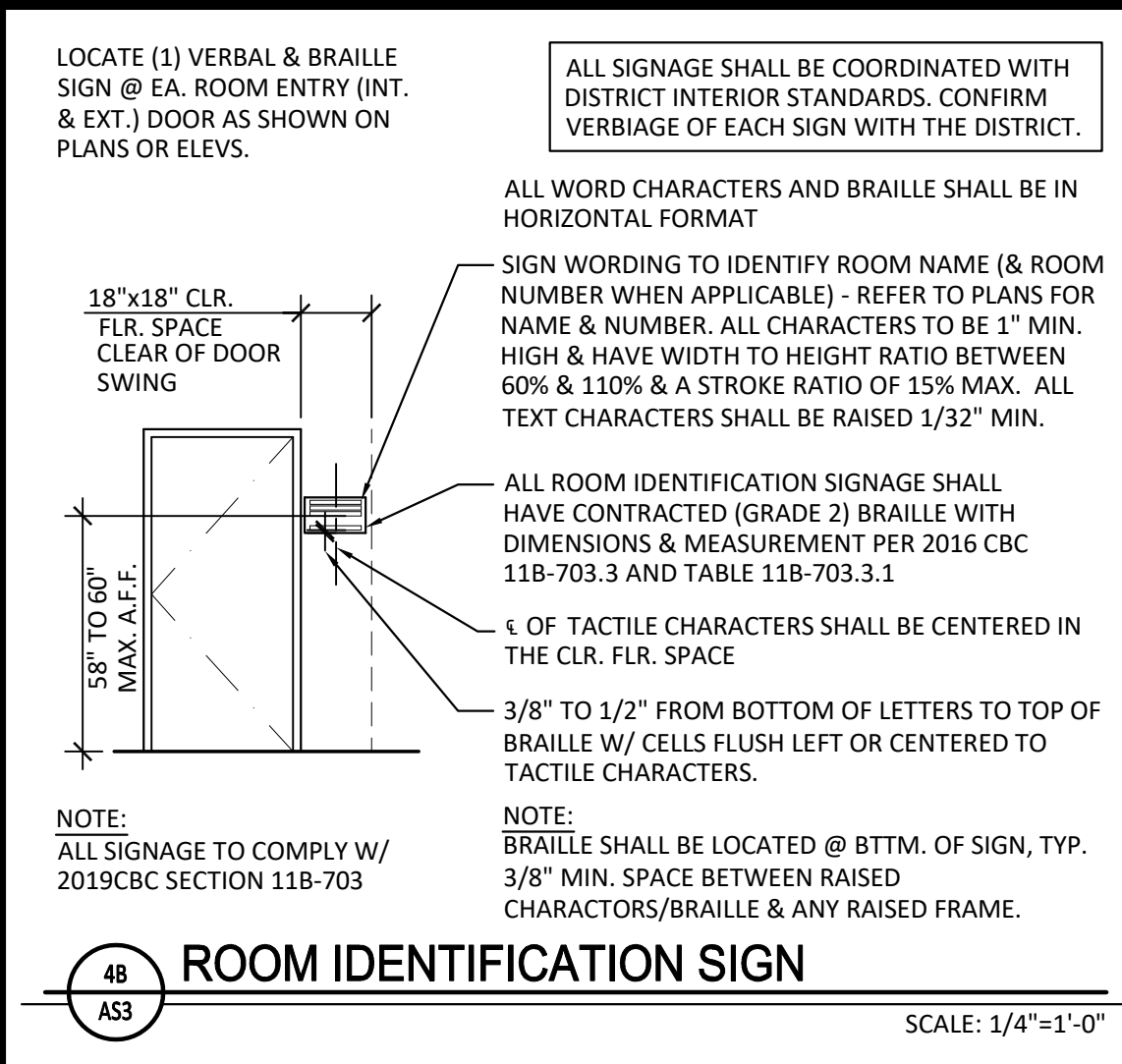
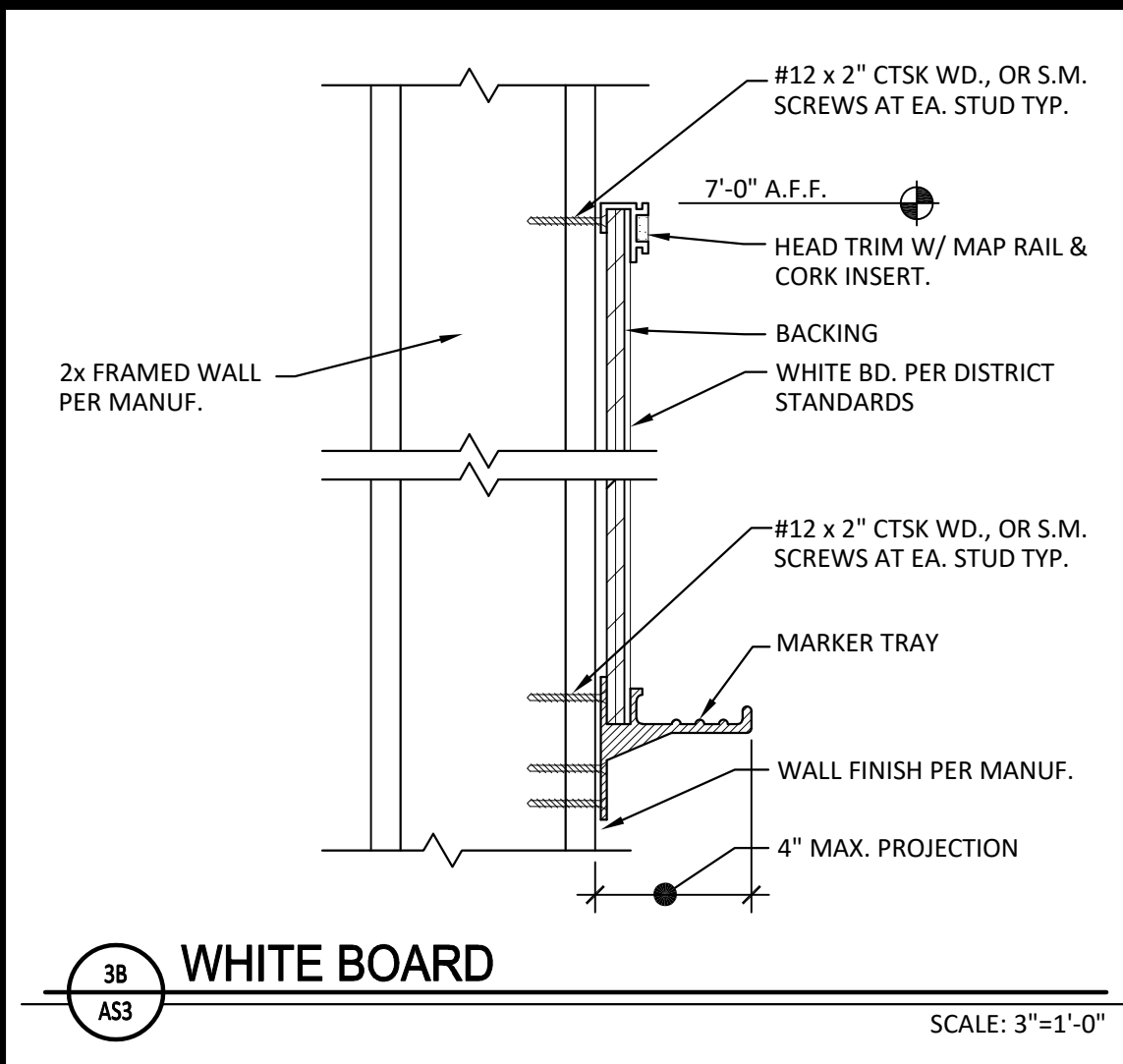
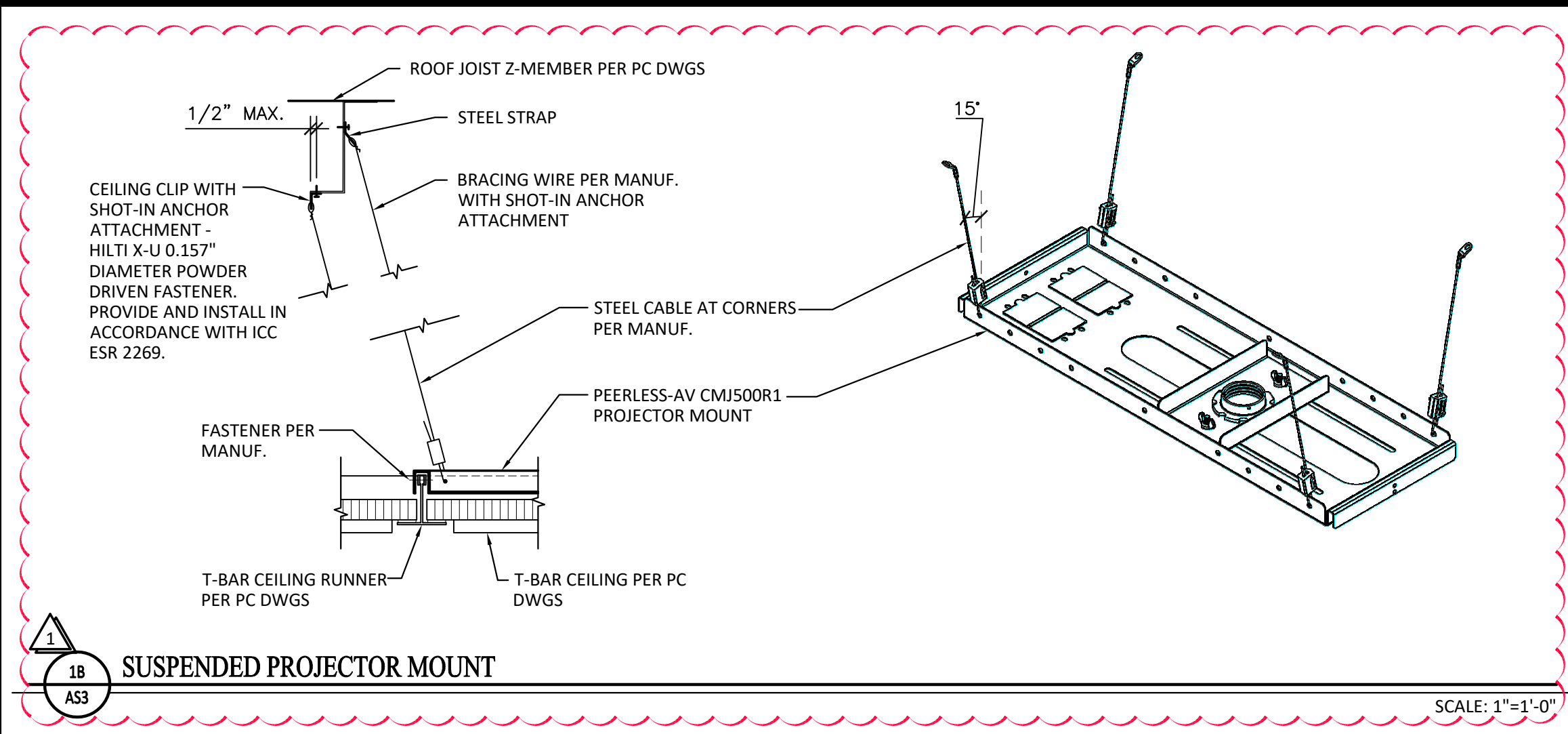
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DETAILS

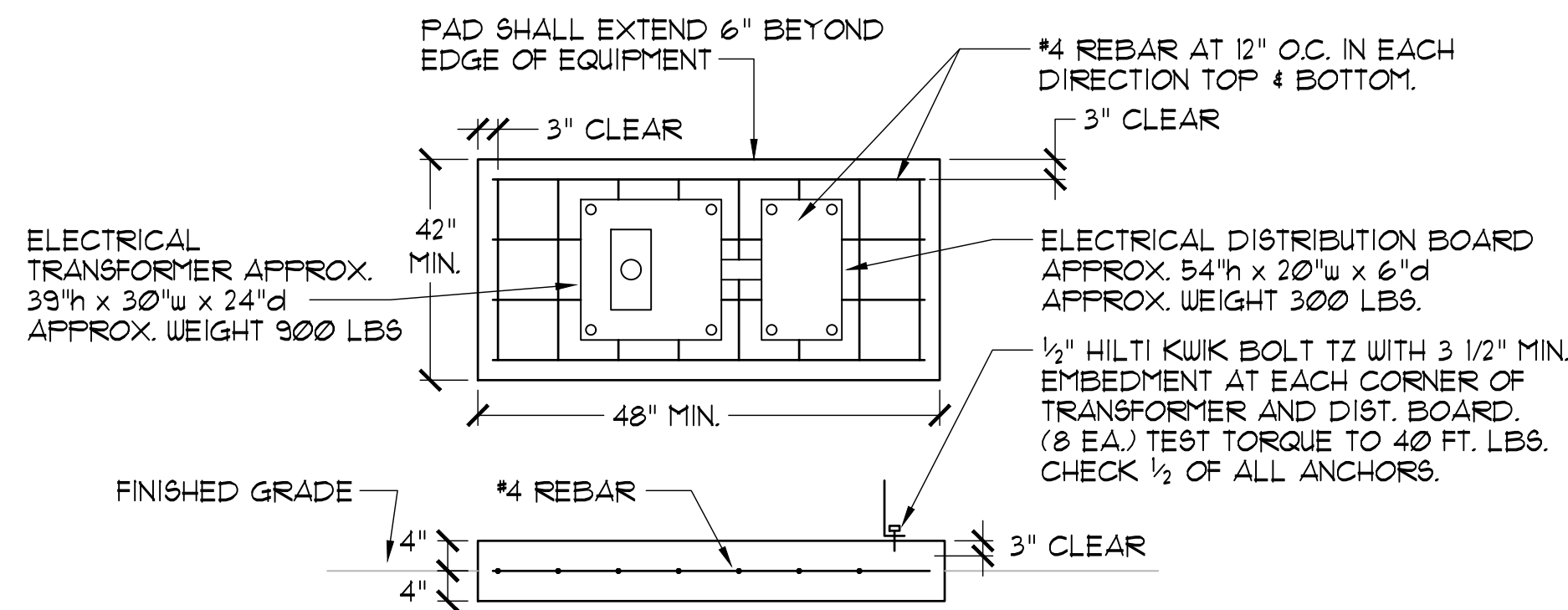
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AS3



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NOTES

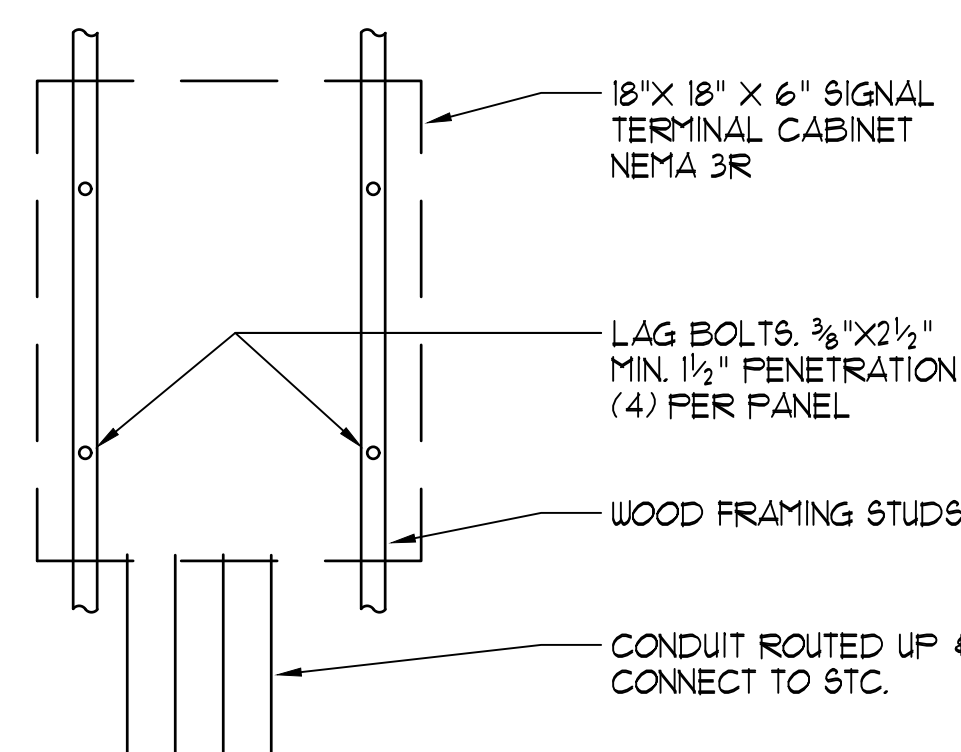
- SPECIAL INSPECTION IS REQUIRED FOR CONCRETE TESTING. CONCRETE COMPRESSIVE STRENGTH IN 28 DAYS, 3000 PSI
- SPECIAL INSPECTION IS NOT REQUIRED FOR CONCRETE MIX DESIGN.
- SPECIAL INSPECTION IS NOT REQUIRED FOR IDENTIFY, SAMPLE AND TESTING REINFORCING STEEL. SEE NOTE 1.
- DEFORMED REINFORCING STEEL, ASTM A615 GR. 40
- TRANSFORMER SHALL BE NEMA 3R WITH WEATHERPROOF SHIELD.
- THE EQUIPMENT SIZES ARE APPROXIMATE AND WILL BE DETERMINED BY THE MANUFACTURER THE CONTRACTOR USES.
- PROVIDE CERTIFIED MILL REPORTS TO INSPECTOR OF RECORD FOR SHIPMENT OF REINFORCEMENT.

TRANSFORMER & DIST. BD. PAD DETAIL

SCALE: NONE

C

E1.2



SIG. TERM. CAB. MOUNTING

SCALE: NONE

B

E1.2

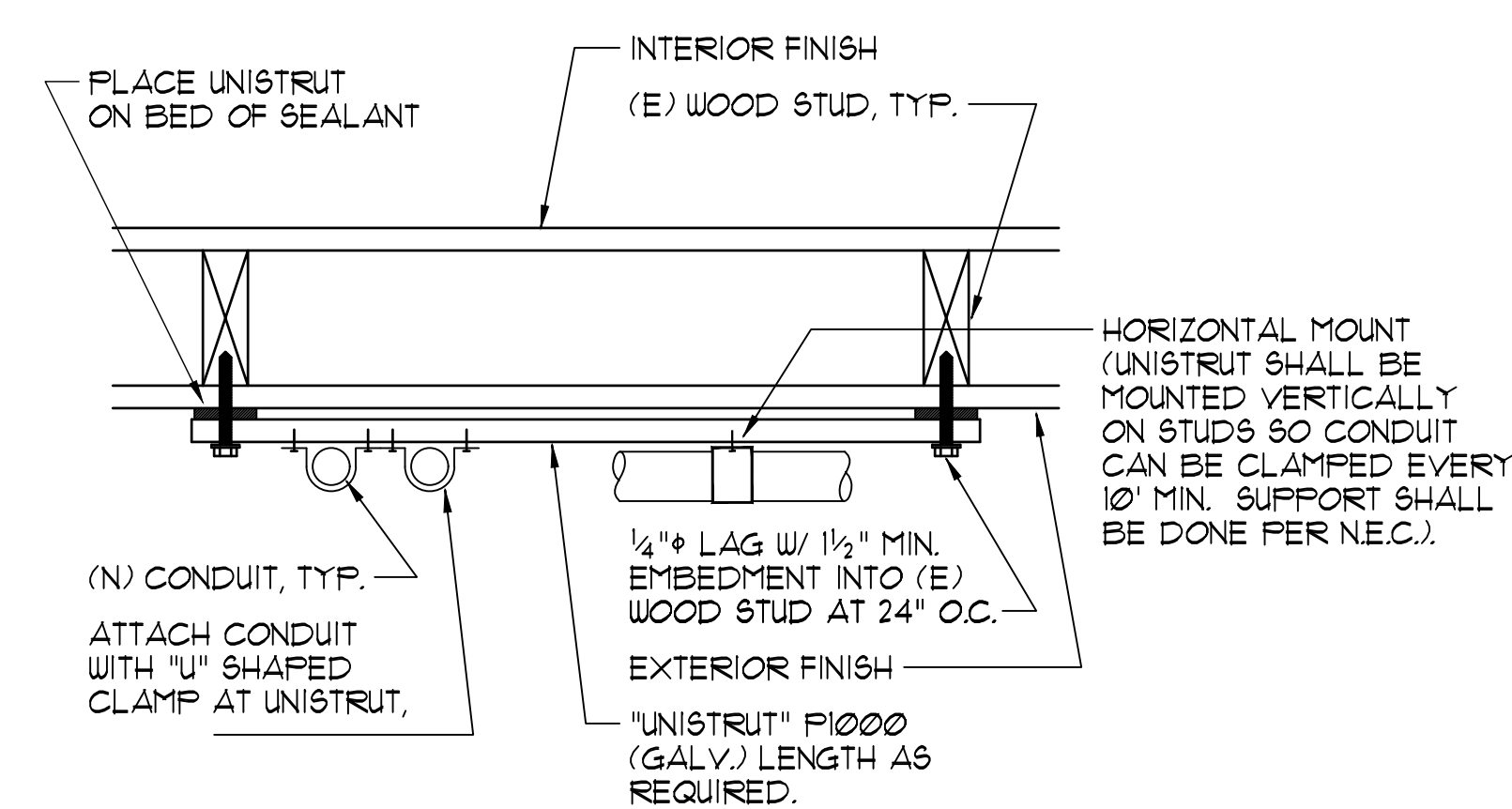
CONDUIT SUPPORT DETAIL (WALL)

SCALE: NONE

(VERTICAL & HORIZONTAL)

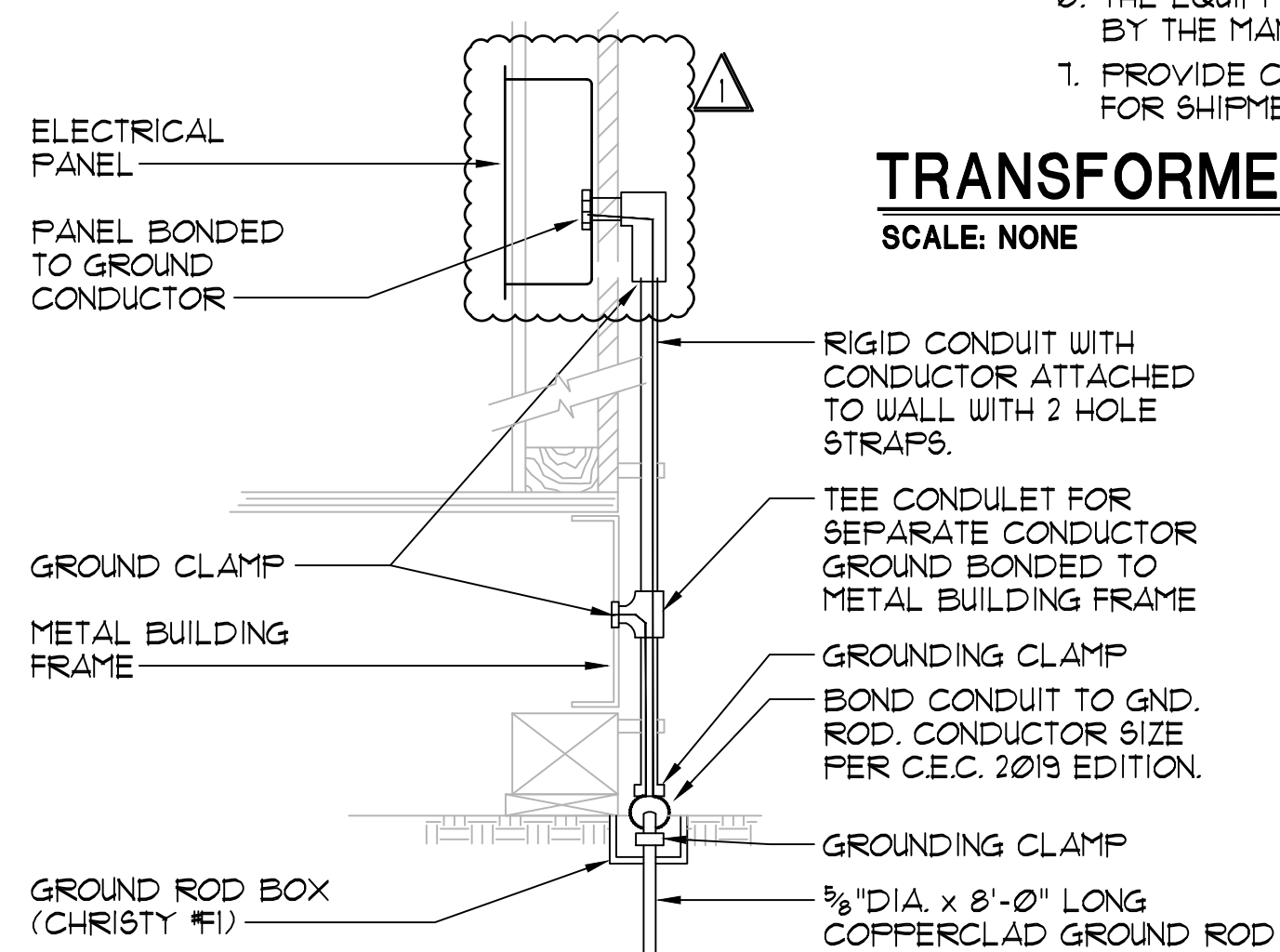
A

E1.2



NOTES:

- AT CMU WALL OR CONCRETE WALL, ATTACH UNISTRUT WITH ROMSET/REDHEAD 1/4" SHN-1413 SLEEVE ANCHOR (1 1/8" MIN. EMBEDMENT).
- AT METAL STUD WALL, ATTACH UNISTRUT WITH #12 X 2" LONG SELF TAPPING SCREW (GALV.), AND WITH NEOPRENE (OVER-SIZED) WASHERS.
- ALL HORIZONTAL AND VERTICAL UNISTRUT FOR MOUNTING SHALL BE A MINIMUM OF 12" LONG.



NOTES:

- SIZE OF CONDUCTORS SHALL COMPLY WITH 2019 C.E.C.
- BOND TO SEPARATE CONDUCTORS FROM GROUND ROD TO ELECTRICAL PANEL, METAL BUILDING FRAME & RAMP (2019 C.E.C.). GROUND TO METAL WATER PIPE EMBEDDED AT LEAST 10'-0" INTO THE SOIL IF AVAILABLE (C.E.C. 2019 EDITION).
- ALL MODULES OF METAL FRAME BUILDING SHALL BE ELECTRICALLY BONDED TOGETHER (BOLTING ONLY IS NOT ACCEPTABLE BONDING).
- CHECK RESISTANCE TO GROUND. IF RESISTANCE EXCEEDS 25 OHMS, INSTALL ADDITIONAL GROUND RODS WITH CONDUCTORS AS SHOWN SEPARATED AT LEAST 6'-0" UNTIL RESISTANCE IS REDUCED TO 25 OHMS OR LESS (C.E.C. 2019 EDITION).
- PROVIDE GAS AND WATER BOND.
- SITE INSPECTOR OF RECORD SHALL WITNESS AND VERIFY ALL TESTING.

BUILDING GROUNDING DETAIL

SCALE: NONE

G

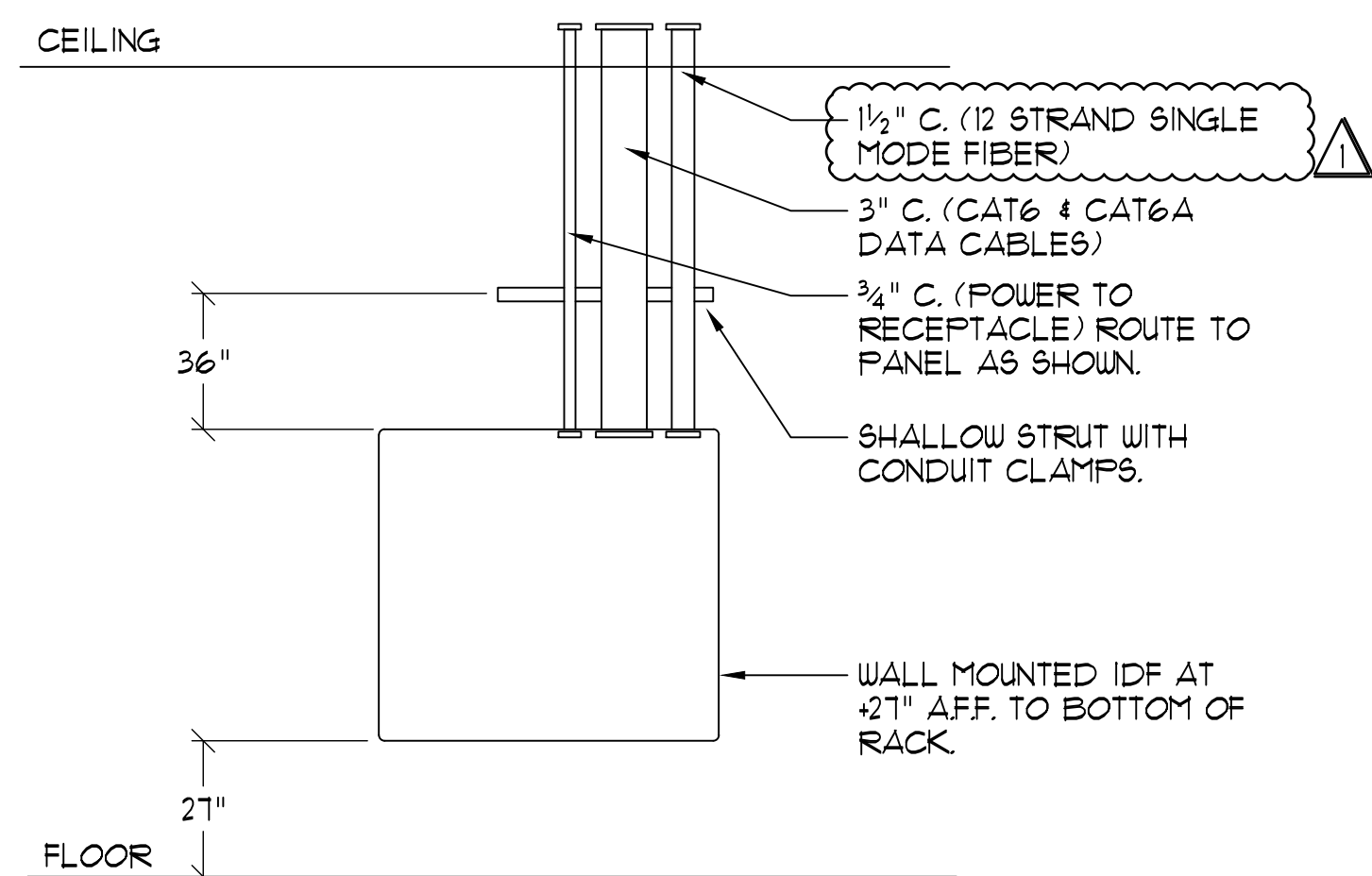
E1.2

POWER CONNECTION DETAIL

SCALE: NONE

F

E1.2

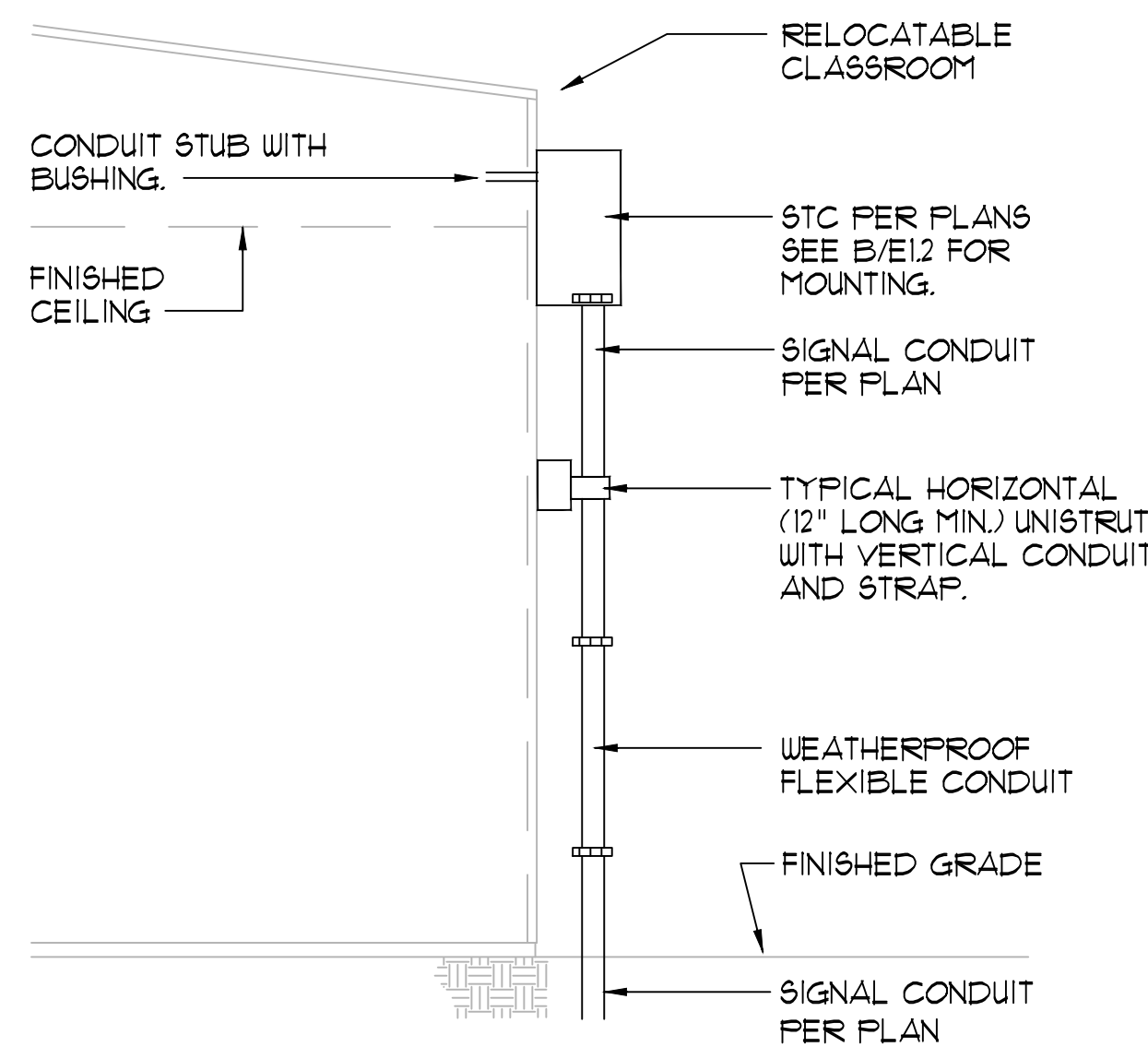


TYP. CONDUIT TO IDF DETAIL

SCALE: NONE

J

E1.2



SIGNAL CONNECTION DETAIL

SCALE: NONE

E

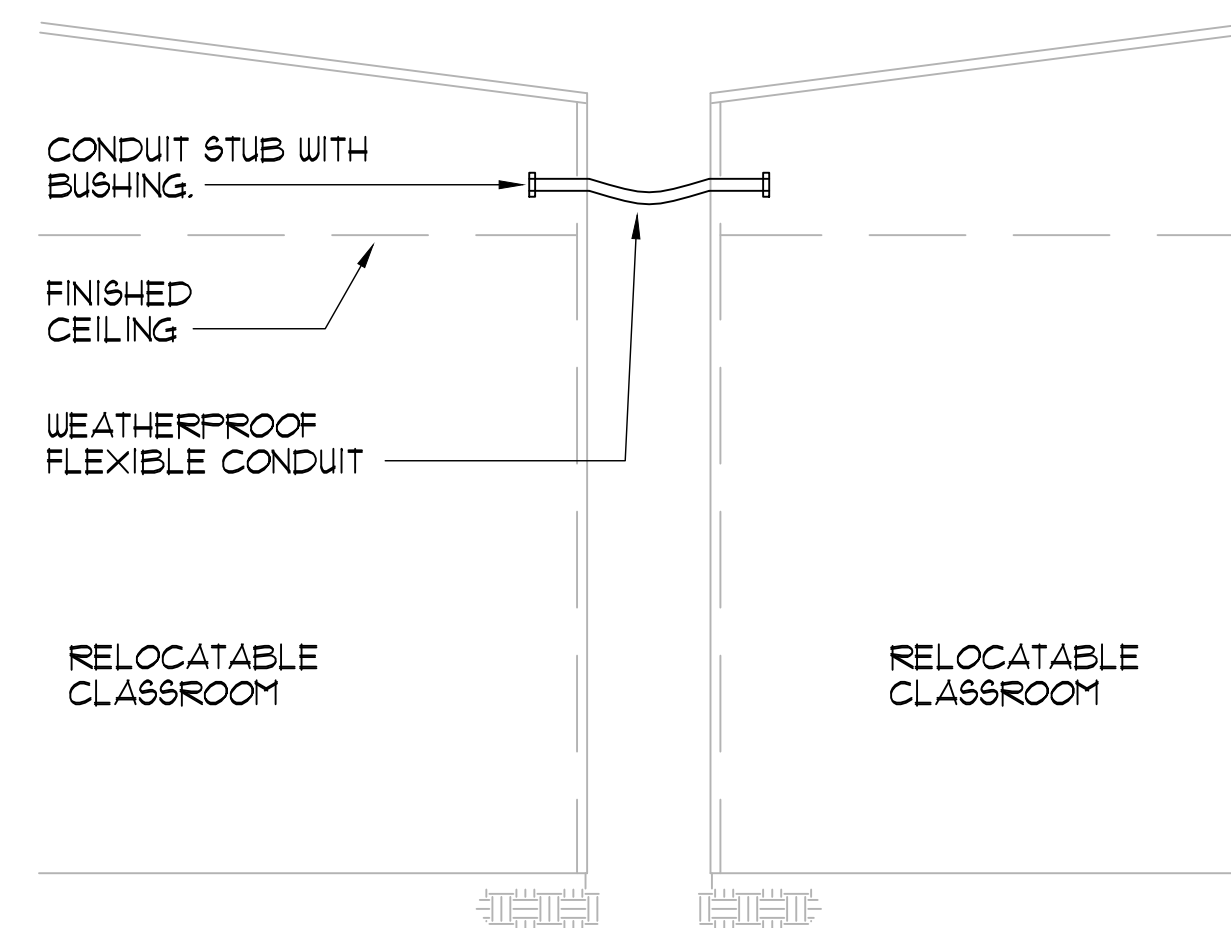
E1.2

CONDUIT TRENCH DETAIL

SCALE: NONE

D

E1.2



SIGNAL CONDUIT BETWEEN BUILDINGS

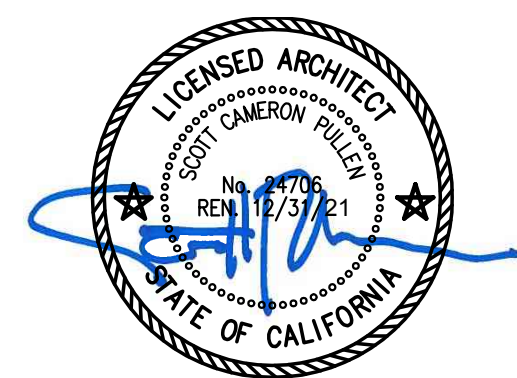
SCALE: NONE

H

E1.2

HMRARCHITECTS

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Date Signed: June 22, 2020



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EARLY COLLEGE
PORTABLES

SOLANO COMMUNITY
COLLEGE

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FAIRFIELD, CA 94534

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1	Addendum 2	06/22/20

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ELECTRICAL DETAILS

JUNE 1, 2020

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E1.2

EST3 FACP BATTERY CALCULATIONS

Description	Qty	Standby		Total		Alarm		Total	
		Current (mA)	Standby (mA)	Current (mA)	Standby (mA)	Current (mA)	Standby (mA)	Current (mA)	Standby (mA)
3-PPSM Power Supply	1	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
3-CPU1 Central Processor	1	70	70	80	80	80	80	80	80
3-FIB Fiber Optic Interface	1	100	100	100	100	100	100	100	100
3-LCD LCD Module	1	53	53	53	53	53	53	53	53
3-SSDC SIGA Controller *	1	195	195	233	233	233	233	233	233
3-12S1GY Annunciation Module	1	2	2	15	15	15	15	15	15
TOTALS	--	--	420	--	481	--	481	--	481

* NOTE: The SIGA Device Controller is calculated with the maximum Signature addressable device load

Battery Requirement Calculation for 24 Hours Standby and 15 Minutes Alarm:
Ampere Hours = [(Standby Current x Time)+(Alarm Current x Time)] x Derating Factor
Ampere Hours = [(0.42A x 24 hrs)+(0.481A x 0.25 hrs)] x 1.2
Ampere Hours = 12.1

BATTERIES SUPPLIED: (2) 12 Volts, 18 Ampere Hours (24 Volts, 18 Ampere Hours)

VOLTAGE DROP CALCULATION

WIRE GAUGE (# 12) R=0.00198 ohm/FT

NAC CIRCUIT	SOURCE VOLTAGE	TOTAL AMP	WIRE LENGTH (FEET)	VOLT DROP (2XRxBXC)	% DROP (DIA)	VOLTAGE AT LAST DEVICE (A-D)	AUDIO WATTS
#1-1	20.4	0.336	110	0.15	0.72	20.25	2.03

FIRE ALARM SYSTEM OPERATIONAL MATRIX

CAUSE	EFFECT	ALARM AT	ACTIVATE	ACTIVATE	TROUBLE	DEACTIVATE	SYSTEM NORMAL	SUPERVISING STATION
		'FACP'	AUDIBLES	VISUALS	AT 'FACP'	AUDIBLES/VISUALS		
MANUAL FULL STATION		×	×	×				×
SMOKE & HEAT DETECTORS		×	×	×				×
SYSTEM RESET						×	×	×
SYSTEM SILENCE						×	×	×
AC POWER FAILURE AT 'FACP'					×			×
F.A. TROUBLE (OPEN, SHORTS, OR GROUNDS) ON INITIATION, OR SIGNALING.					×			×

FIRE ALARM NOTES

- THE AUTOMATIC ALARM SYSTEM SHALL BE INSTALLED, TESTED AND MAINTAINED IN ACCORDANCE WITH THE STATE FIRE MARSHAL'S REGULATIONS & 2019 CBC SEC. 907.
- THE FIRE ALARM SYSTEM SHALL CONFORM TO CAL. ELEC. CODE AND ARTICLE 91. INSTALLATION OF THE SYSTEM SHALL NOT BEGIN UNTIL DETAILED PLANS AND SPECIFICATIONS, INCLUDING CSFM LISTING NUMBERS FOR EACH COMPONENT, HAVE BEEN APPROVED BY DSA. UPON COMPLETION OF THE INSTALLATION, A TEST OF THE ENTIRE SYSTEM SHALL BE MADE IN THE PRESENCE OF THE DSA INSPECTOR OF RECORD.
- THE ALARM SYSTEM SHALL ACTIVATE A MEANS OF WARNING THE HEARING IMPAIRED. FLASHING VISUAL WARNINGS SHALL HAVE A FLASH RATE NOT EXCEEDING TWO FLASHES PER SECOND (2 HZ) NOR BE LESS THAN ONE FLASH EVERY SECOND (1 HZ). STROBE SIGNALING DEVICES FOR THE HEARING IMPAIRED SHALL BE STATE FIRE MARSHAL APPROVED AND LISTED (NFPA T2, SEC. 18.5.2.1)
- ALARM-INDICATING DEVICES OF A FIRE ALARM SYSTEM INTENDED TO ALERT ALL OCCUPANTS SHALL CAUSE A LEVEL OF AUDIBILITY OF NOT LESS THAN 15 dBA ABOVE THE AVERAGE AMBIENT NOISE LEVELS OR 5 dBA ABOVE THE MAXIMUM SOUND LEVEL HAVING A DURATION OF 60 SECONDS WHICH-EVER IS GREATER, MEASURED 5' ABOVE THE FLOOR. AMBIENT NOISE LEVELS MEANS THE LEVEL WHICH CAN NORMALLY BE EXPECTED WHEN THE FACILITY, BUILDING, ROOM, OR AREA IS FUNCTIONING UNDER NORMAL OPERATING OR WORKING CONDITIONS (NFPA T2, SEC. 18.4.3.1)
- ALL FIRE ALARM CABLE SHALL BE INSTALLED IN 1/2" CONDUIT MINIMUM. ALL ROUTINGS SHALL BE CONCEALED. PROVIDE A FULL ROPE IN ALL UNUSED CONDUIT RUNS.
- ALL STROBES SHALL BE SYNCHRONIZED TO FLASH AT THE SAME TIME WITH ONE ANOTHER PER 2016 NFPA T2.

FIRE ALARM EQUIPMENT SCHEDULE

SYMBOL	CATALOG #	DESCRIPTION	
	EDWARDS EST3 PANEL WITH (1) 3-CPU3 (1) 3-LCD (1) 3-PPSM (1) 3-SSDC1 (1) 3-ZA40B (1) 3-CAB5 & BC-1 (1) 3-12/SIGY (1) 3-FIBMB2 (4) MMXVR	VOICE EVAC CONTROL PANEL CONNECTED TO CAMPUS WIDE NETWORK VIA FIBER OPTIC CABLE. SEPARATE BATTERY CABINET WITH (2) 18.0 AH BATTERIES	T163-1651:0186
	EDWARDS SIGA-2T8	ADDRESSABLE MANUAL FULL STATION	T150-1651:0129
	EDWARDS SIGA-OSD SIGA-SB	ADDRESSABLE SMOKE DETECTOR & BASE	T272-1651:0511 T300-1651:0120
	SYSTEM SENSOR 5602 WITH A SIGA-CTHT	194" ATTIC HEAT DET. AND AN ADDRESSABLE MONITOR MODULE	T270-1653:0167 T300-1651:0121
	EDWARDS SIGA-CCIS	ADDRESSABLE SYNC. OUTPUT MODULE FOR NAC CIRCUIT.	T300-1651:0121
	EDWARDS GCHFWF-STVMC	CEILING MOUNTED SPEAKER/STROBE (15 CANDELA)	T320-1651:0211

NOTES:

- THE (N) FIRE ALARM SYSTEM IS AN APPROVED FULLY AUTOMATIC VOICE EVAC SYSTEM WITH MANUAL DEVICES TO COMPLY WITH THE GREEN OAKS FAMILY ACADEMY ELEMENTARY SCHOOL FIRE PROTECTION ACT (SB 515).
- FIRE ALARM AUDIBLES SHALL HAVE THE SAME BASIC SOUND & PATTERN & SOUND THE CALIFORNIA UNIFORM FIRE ALARM SIGNAL IN TEMPORAL MODE.
- THE FIRE ALARM CONTROL PANEL SHALL TRANSMIT THE ALARM, SUPERVISORY AND TROUBLE SIGNALS TO AN APPROVED SUPERVISING STATION AS REQUIRED BY NFPA T2 AS AMENDED BY ARTICLE 91 OF THE CALIFORNIA FIRE CODE. THE SUPERVISING STATION SHALL BE LISTED AS EITHER UJFX OR UJUS BY UNDERWRITERS LABORATORY OR SHALL MEET THE REQUIREMENTS OF FACTORY MUTUAL RESEARCH APPROVAL STANDARD 3011.
- ALL FIRE ALARM STROBES SHOWN ON PLANS SHALL BE ASSUMED TO BE 15 CANDELA (cd) STROBES, UNLESS OTHERWISE NOTED.

FIRE ALARM CABLE SCHEDULE

TYPE	DESCRIPTION
A	(2) #16 TWISTED/UNSHIELDED (F.A. SIGNALING LOOP CIRCUIT) WEST PENN #390.
B	(2) #12 THIN CU (F.A. NOTIFICATION APPLIANCE CIRCUIT)
C	(2) #14 TWISTED/SHIELDED (F.A. SPEAKER CIRCUIT) WEST PENN #395.

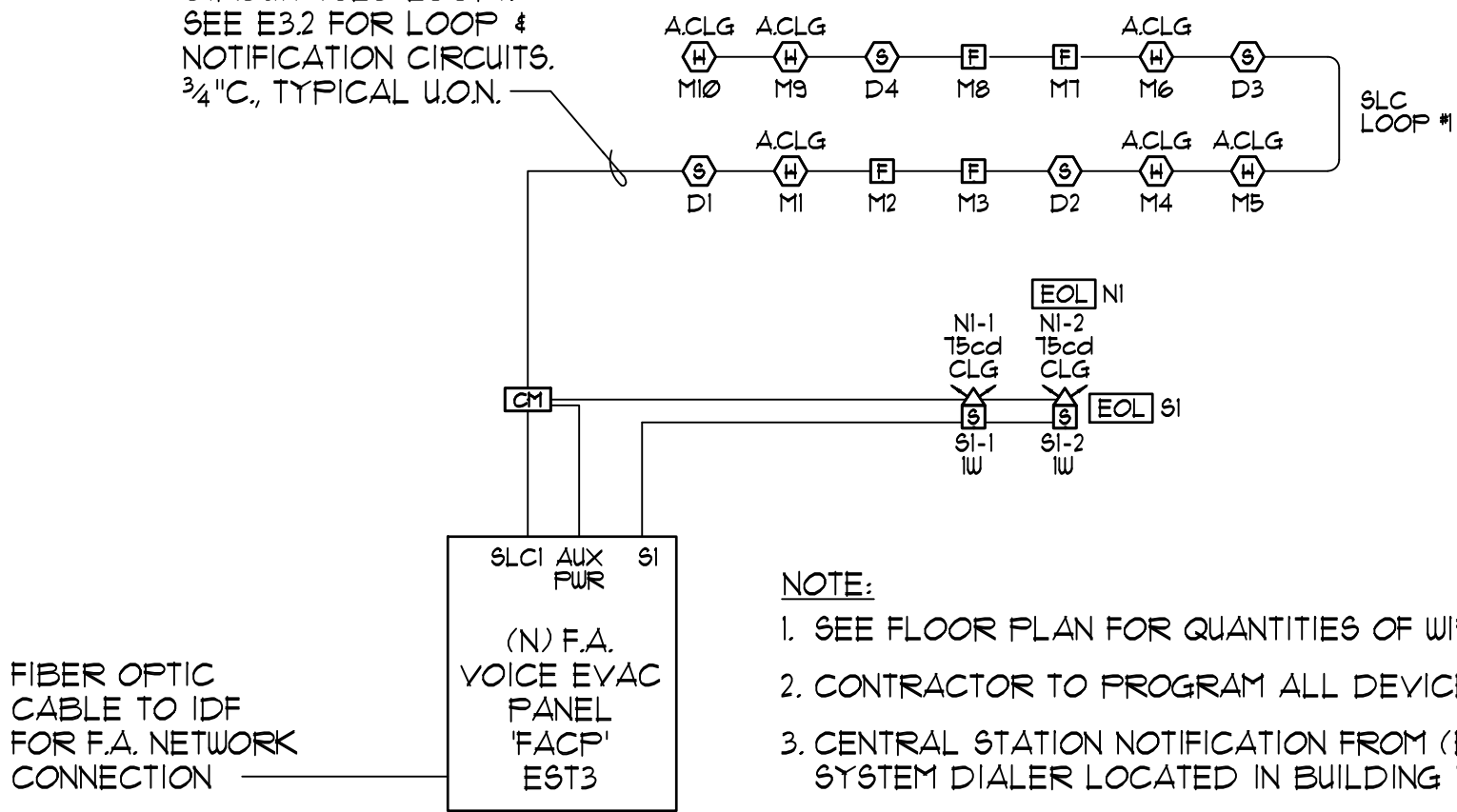
FIRE ALARM SYSTEM NOTES

- F.A. SYSTEM SHALL CONFORM TO 2019 CALIFORNIA BUILDING CODE SECTION 907.2.3, 2019 CALIFORNIA ELECTRICAL CODE, ARTICLE 160 & NFPA T2, 2016 EDITION. COMPONENT SHALL BE AS SPECIFIED ON THE DRAWINGS. THE MANUFACTURERS FACTORY TRAINED AND AUTHORIZED REPRESENTATIVE SHALL PERFORM OR SUPERVISE THE INSTALLATION. UPON COMPLETION OF INSTALLATION, THIS PERSON SHALL EXECUTE A SATISFACTORY TEST OF THE ENTIRE SYSTEM IN THE PRESENCE OF THE DSA INSPECTOR. TESTING SHALL ALSO INCLUDE A BATTERY TEST. OPERATE SYSTEM FOR 24 HOURS WITHOUT INPUT POWER & PERFORM A (5) FIVE MINUTE ALARM TEST OF THE ENTIRE SYSTEM AT THE END OF 24 HOURS. CONTRACTOR SHALL BE RESPONSIBLE FOR MAKING THE SYSTEM COMPLETE AND OPERATIONAL.
- COMPLETE FIRE ALARM SUBMITTAL INCLUDED.
- THE FIRE ALARM SYSTEM SHALL CONFORM TO NOTE #1 AND ALSO CONFORM TO SB 515. THE F.A. DEVICES SHALL BE AUTOMATIC AND MONITORED BY AN APPROVED SUPERVISING STATION THAT IS LISTED AS EITHER UJFX OR UJUS BY UNDERWRITERS LAB. OR SHALL MEET THE REQUIREMENTS OF FACTORY MUTUAL RESEARCH APPROVAL STANDARD 3011.

FIRE ALARM SCOPE OF WORK

THE COLLEGE IS GETTING (2) NEW 36" X 40" PORTABLES WITH A NEW FIRE ALARM VOICE EVACUATION SYSTEM. CONTRACTOR SHALL PROVIDE AND INSTALL A NEW FIRE ALARM SYSTEM FOR A COMPLETE & OPERATIONAL INSTALLATION.

TYPICAL SIGNAL LINE
CIRCUIT (SLC LOOP).
SEE E32 FOR LOOP &
NOTIFICATION CIRCUITS.
3/4"C., TYPICAL U.O.N.



NOTE:

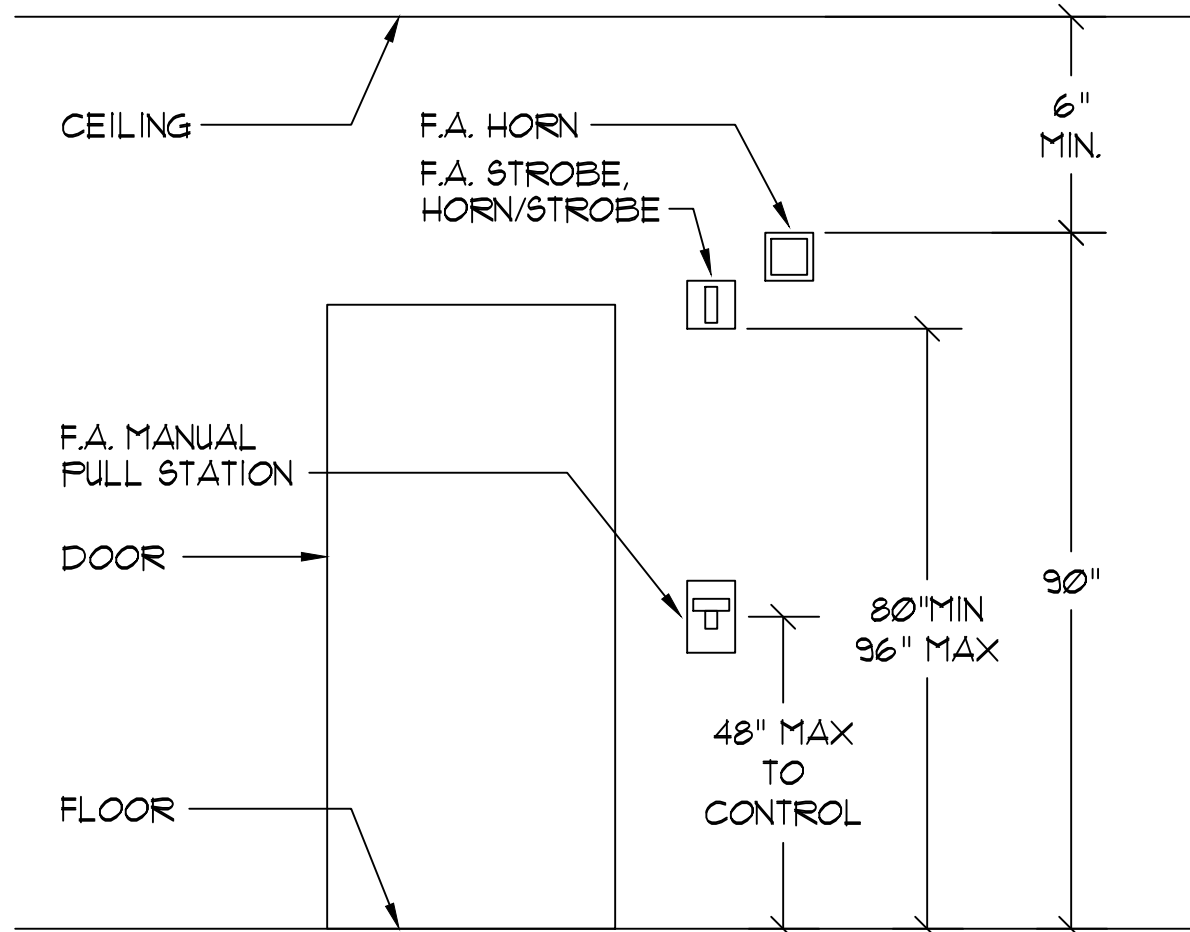
- SEE FLOOR PLAN FOR QUANTITIES OF WIRES.
- CONTRACTOR TO PROGRAM ALL DEVICES.
- CENTRAL STATION NOTIFICATION FROM (E) F.A. SYSTEM DIALER LOCATED IN BUILDING 1800B.
- CONTRACTOR SHALL UPDATE (E) F.A. GRAPHIC ANNUNCIATOR WITH NEW DEVICES BEING ADDED TO CAMPUS WIDE F.A. SYSTEM. COORDINATE EXACT LOCATION OF ANNUNCIATOR IN FIELD.

FIRE ALARM RISER DIAGRAM

SCALE: NONE

B

E1.3

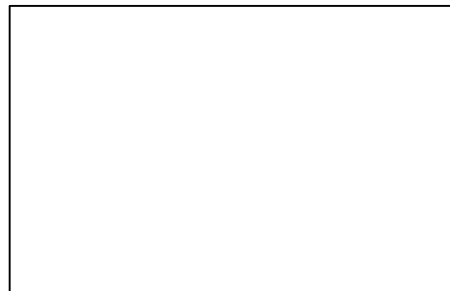


F.A. DEVICE ELEVATION DETAIL

SCALE: NONE

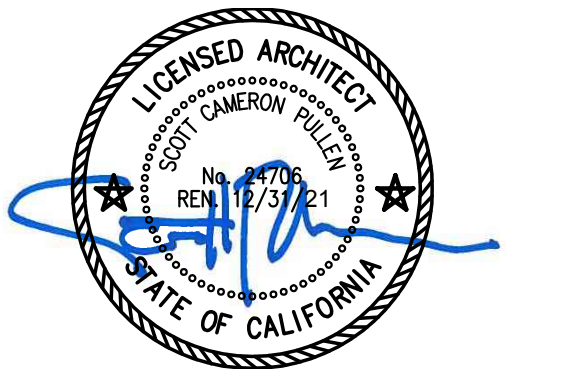
A

E1.3



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Date Signed: June 22, 2020



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EARLY COLLEGE
PORTABLES

SOLANO COMMUNITY
COLLEGE

4000 SUISUN VALLEY RD.
FAIRFIELD, CA 94534

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REVISIONS

NO.	DESCRIPTION	DATE
1	Addendum 2	06/22/20

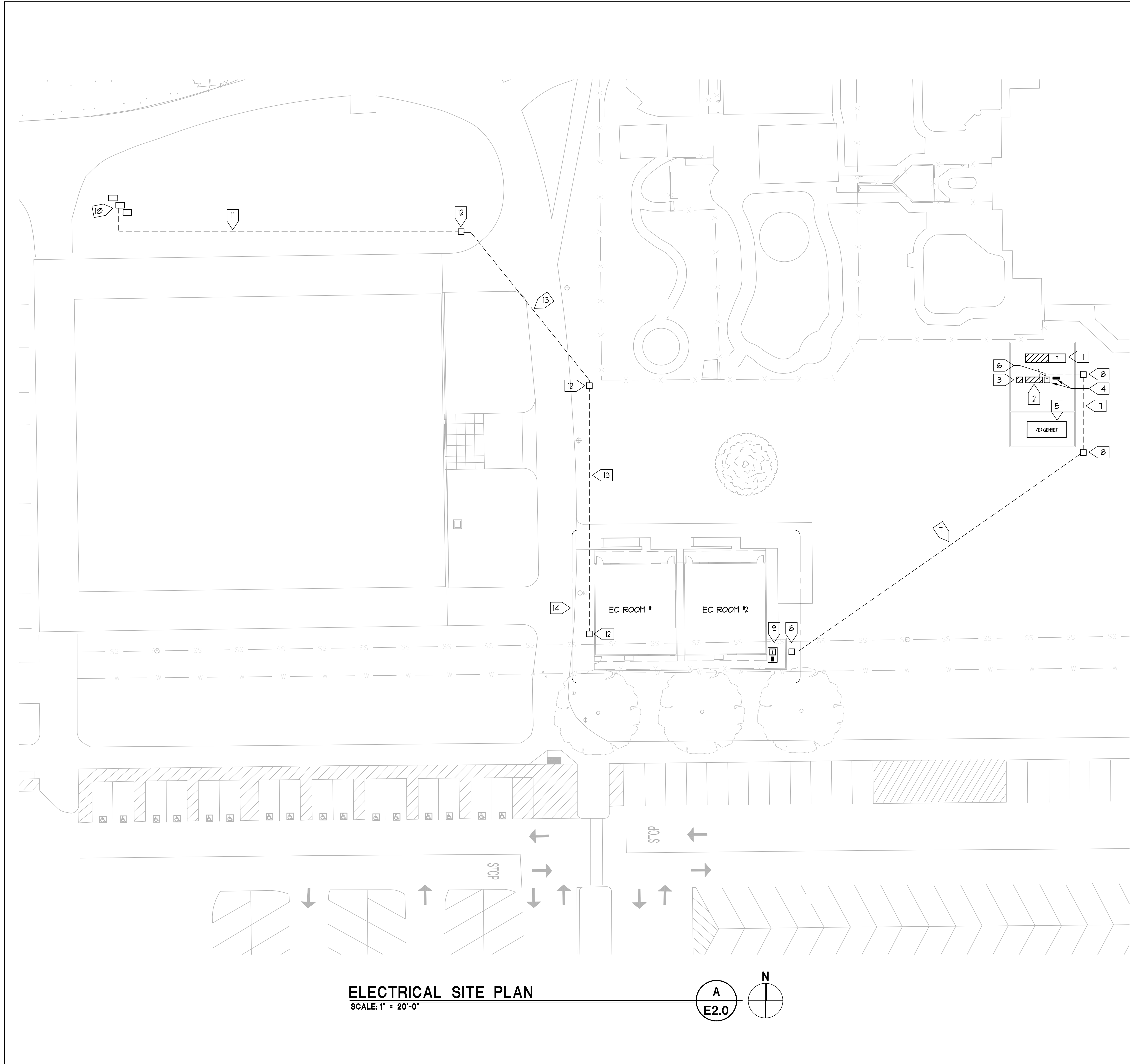
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FIRE ALARM CALCULATIONS,
SCHEDULES, NOTES & RISER
DIAGRAM

JUNE 1, 2020

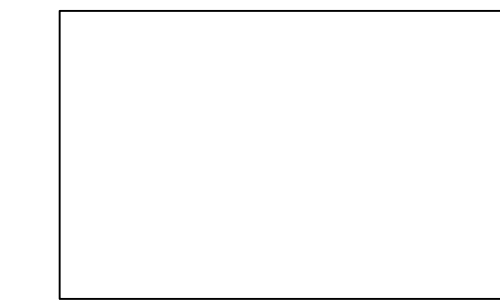
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E1.3



NUMBERED NOTES

- (E) 4000 AMP, 480/277 VOLT, 3 PH, 4 W. SUBSTATION #4 SWITCHBOARD AND TRANSFORMER TO REMAIN.
- (E) 1600 AMP, 480/277 VOLT, 3 PH, 4 W. SWITCHBOARD 'S4' TO REMAIN. SEE ONE LINE DIAGRAM A/E11.
- (E) 800 AMP, 480 VOLT, ATS TO REMAIN.
- (E) 15 KVA TRANSFORMER AND 208/120 VOLT, 3 PH, 4 W. PANEL 'L1' TO REMAIN.
- (E) KOHLER GENERATOR TO REMAIN.
- X-RAY THE CONCRETE SLAB. SAWCUT THE CONCRETE PAD AND ROUTE NEW ELECTRICAL FEEDER OUT THE BACK OF THE MAIN SWITCHBOARD, THEN TO BELOW GRADE AND OUT OF THE FENCED IN AREA TO PULL BOX AS SHOWN. SEE ONE LINE DIAGRAM A/E11 FOR SIZE & QUANTITY OF CONDUIT AND CONDUCTORS. COORDINATE EXACT ROUTING IN FIELD WITH G.C., C.M. AND COLLEGE DISTRICT ELECTRICAL DEPARTMENT. USE CAUTION WHEN SAW CUTTING AS THERE IS A GROUNDING RING IN THE PAD.
- NEW ELECTRICAL FEEDER ROUTED BELOW GRADE BETWEEN PULL BOXES. SEE ONE LINE DIAGRAM A/E11 FOR SIZE & QUANTITY OF CONDUIT AND CONDUCTORS.
- PROVIDE AND INSTALL A CHRISTY N36 PULL BOX (ELECTRICAL), REINFORCED CONCRETE LID AND EXTENSIONS. BACKFILL AROUND BOX TO MATCH CONDITIONS. PROVIDE BELL ENDS ON ALL CONDUITS IN BOX FOR CABLE PROTECTION.
- NEW TRANSFORMER AND DISTRIBUTION PANEL 'PDI'. PROVIDE A CONCRETE HOUSEKEEPING PAD FOR THE TRANSFORMER AND PANEL. SEE DETAIL C/E12. SEE ONE LINE DIAGRAM A/E11 FOR SIZE & QUANTITY OF CONDUIT AND CONDUCTORS ROUTED FROM PULL BOX TO TRANSFORMER. SEE DISTRIBUTION PANEL SCHEDULE ON SHEET E11. SEE SHEET E3.0 FOR POWER FROM DISTRIBUTION PANEL TO EACH PORTABLE BUILDING.
- (E) SIGNAL PULL BOX WITH 288 SINGLE MODE FIBER OPTIC (SMFO) TRUNK CABLE. PROVIDE A 12 STRAND SMFO CABLE AND CONNECT TO SMFO TRUNK CABLE. COORDINATE CONNECTION OF 12 STRAND SMFO CABLE TO TRUNK CABLE WITH COLLEGE IT DEPARTMENT.
- FROM PULL BOX WITH SMFO TRUNK CABLE, ROUTE 12 STRAND SMFO CABLE IN (1) 2" CONDUIT WITH (1) INNER DUCT & PULL ROPE AND (1) 2" SPARE CONDUIT WITH PULL ROPE, BELOW GRADE TO NEW PULL BOX AS SHOWN. PROVIDE BELL ENDS ON CONDUITS IN PULL BOX FOR CABLE PROTECTION.
- PROVIDE A CHRISTY N36 PULL BOX (COMMUNICATIONS), REINFORCED CONCRETE LID AND EXTENSIONS. BACKFILL AROUND BOX TO MATCH EXISTING CONDITIONS. PROVIDE BELL ENDS ON ALL CONDUITS IN BOX FOR CABLE PROTECTION.
- FROM PULL BOX, ROUTE 12 STRAND SMFO CABLE IN (1) 2" CONDUIT WITH (1) INNER DUCT & PULL ROPE AND (1) 2" SPARE CONDUIT WITH PULL ROPE, BELOW GRADE TO NEW PULL BOX AS SHOWN. PROVIDE BELL ENDS ON CONDUITS IN BOX FOR CABLE PROTECTION.
- NEW PORTABLE CLASSROOMS. SEE FLOOR PLAN SHEETS E3.0 & E3.1 FOR WORK REQUIRED IN THIS AREA.



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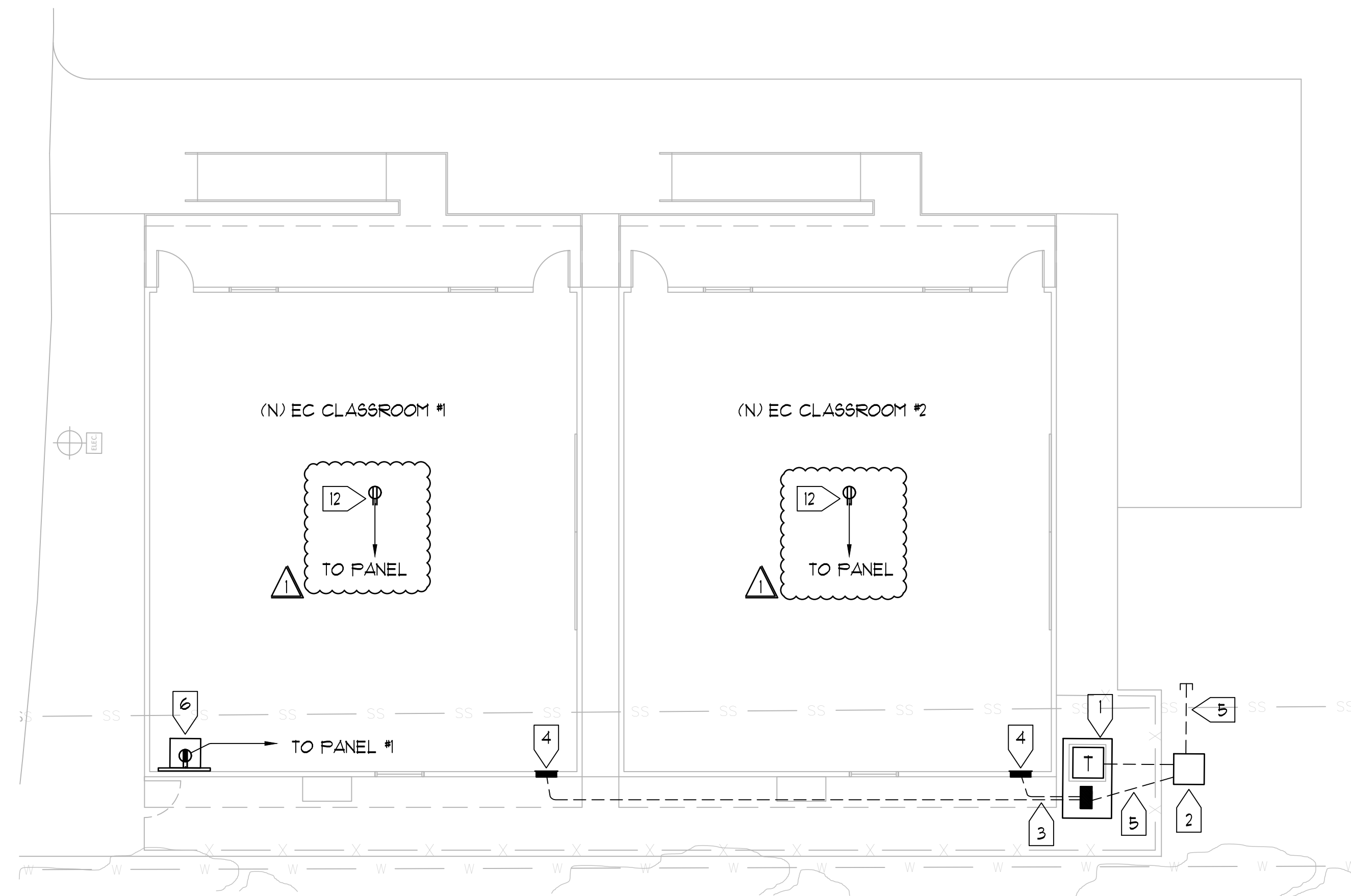
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ELECTRICAL SITE PLAN & NOTES

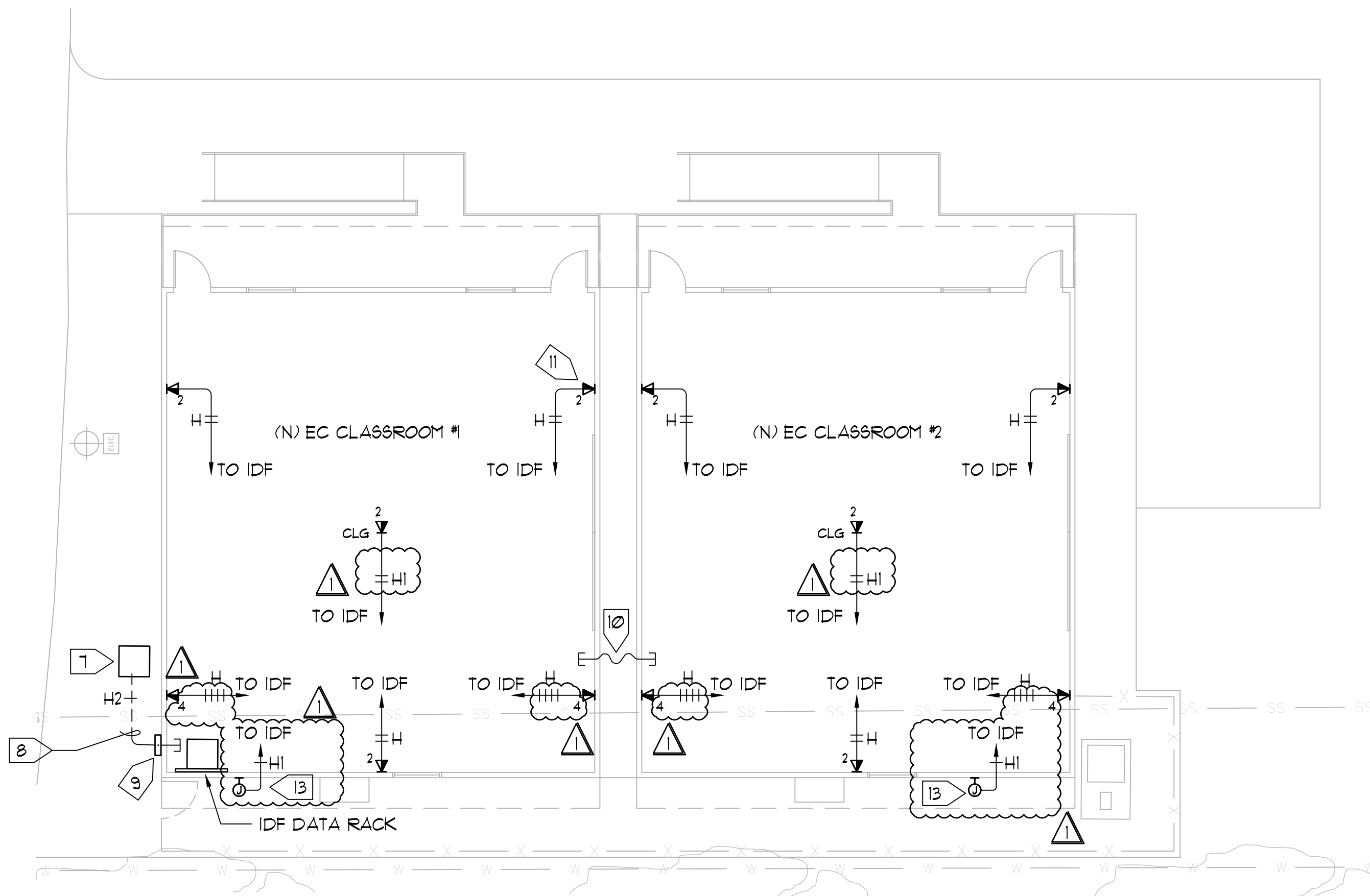
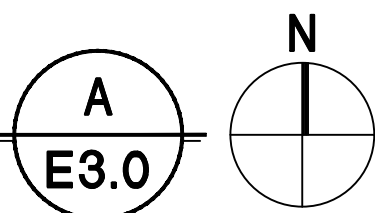
JUNE 1, 2020

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JOB NO.	

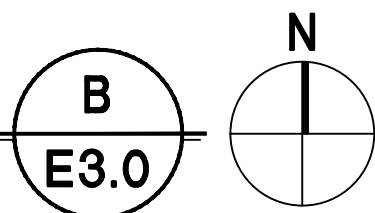
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ENLARGED POWER PLAN
SCALE: 1/8" = 1'-0"



ENLARGED SIGNAL PLAN
SCALE: 1/8" = 1'-0"



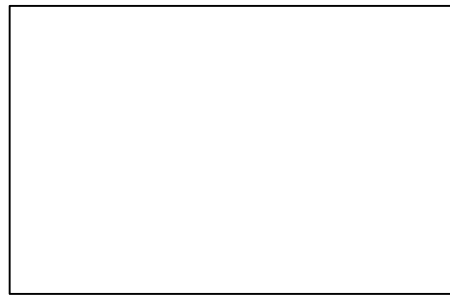
NUMBERED NOTES

1. NEW TRANSFORMER AND DISTRIBUTION PANEL 'DPI'. SEE SITE PLAN SHEET E2.0 AND ONE LINE DIAGRAM A/E11.
2. NEW POWER PULL BOX WITH ELECTRICAL FEEDER TO TRANSFORMER. SEE SITE PLAN SHEET E2.0.
3. ELECTRICAL FEEDER FROM DPI TO EACH PORTABLE BUILDING ELECTRICAL PANEL. SEE ONE LINE DIAGRAM A/E11 FOR SIZE & QUANTITY OF CONDUIT AND CONDUCTORS.
4. PORTABLE ELECTRICAL PANEL. PANEL IS SUPPLIED WITH THE BUILDING. PROVIDE A 120 VOLT, 1 PHASE, 20 AMP CIRCUIT BREAKER AND INSTALL IN PANEL SPACE FOR CEILING PROJECTOR RECEPTACLE. CONTRACTOR TO CONNECT FEEDER TO PANEL AND GROUND PANEL PER DETAILS F & G/E12 FOR A COMPLETE AND OPERATIONAL INSTALLATION.
5. PROVIDE (2) 2" CONDUITS WITH FULL ROPE FROM DISTRIBUTION PANEL AND ROUTE OVER TO PULL BOX AS SHOWN. FROM PULL BOX, ROUTE (2) 2" CONDUITS 5' OUT FROM BOX AS SHOWN AND CAP. CAP CONDUIT IN PULL BOX FOR FUTURE USE. USE CAUTION TO NOT HIT SEWER LINE WHILE TRENCHING.
6. NEW IDF DATA RACK. PROVIDE A CHATSWORTH THIN LINE II (36"H x 26"W x 8.5"D) #3050-122 RACK WITH CHATSWORTH THIN LINE II FAN KIT #3051-001 AND INSTALL ON PLYWOOD PER DETAIL C/E11. IDF EQUIPMENT PROVIDED BY COLLEGE DISTRICT IT DEPARTMENT. PROVIDE 3/4" TYPE A-C PLYWOOD AND INSTALL TO WALLS AS SHOWN WITH SANDED SIDE EXPOSED. PROVIDE (3) COATS OF FIRE-RETARDANT WHITE PAINT. MOUNT RACK WITH BOTTOM AT +21" AFF. PROVIDE A DEDICATED 20 AMP RECEPTACLE FOR POWER TO UPS. COORDINATE EXACT NEMA CONFIGURATION WITH UPS AND DISTRICT IT DEPARTMENT. PROVIDE A 20 AMP, 1 POLE, CIRCUIT BREAKER AND INSTALL IN PORTABLE ELECTRICAL PANEL. ROUTE CIRCUITING TO PANEL AND CONNECT TO CIRCUIT BREAKER FOR A COMPLETE AND OPERATIONAL INSTALLATION.
7. SIGNAL PULL BOX. SEE SITE PLAN SHEET E2.0 FOR SIZE OF PULL BOX.
8. FROM PULL BOX, ROUTE 12 STRAND 9MFO CABLE IN (1) 2" CONDUIT WITH 1 1/2" INNER DUCT & FULL ROPE AND (1) 2" SPARE CONDUIT WITH FULL ROPE, BELOW GRADE OVER TO NEW RELOCATABLE AND ROUTE UP THE WALL TO NEW SIGNAL TERMINAL CABINET - STC. CONNECT CONDUITS TO STC. USE CAUTION TO NOT HIT SEWER LINE WHILE TRENCHING. SEE DETAIL E/E12 FOR CONDUIT ROUTING & SUPPORT.
9. PROVIDE A 18" X 18" X 6", LOCKABLE, NEMA 3R, SIGNAL TERMINAL CABINET AND INSTALL HIGH ON THE WALL. SEE DETAIL B & E/E12 FOR CONNECTION. FROM STC, STUB INTO ACCESSIBLE CEILING SPACE (2) 2" (SIGNAL) CONDUITS A MINIMUM OF 6" AND PROVIDE A BUSHING ON END OF CONDUITS TO PROTECT 9MFO SIGNAL CABLES. FROM STC, ROUTE 12 STRAND 9MFO CABLE INTO ATTIC AND OVER TO ABOVE IDF. ROUTE DOWN WALL IN 2" CONDUIT WITH 1 1/2" INNER DUCT TO NEW IDF RACK. CONNECT FIBER CABLE TO EQUIPMENT FOR A COMPLETE AND OPERATIONAL INSTALLATION.
10. PROVIDE (3) 2" FLEXIBLE, WEATHERPROOF CONDUITS FOR DATA & SIGNAL CABLES BETWEEN BUILDINGS TO ALLOW SEISMIC MOVEMENT OF BUILDING. SEAL EXTERIOR WALL PENETRATIONS WITH APPROVED SEALANT. STUB CONDUITS INTO EACH BUILDING A MINIMUM OF 6" AND PROVIDE A BUSHING ON END OF CONDUIT TO PROTECT LOW VOLTAGE SIGNAL CABLES. SEE FIRE ALARM PLAN A/E31 FOR FIRE ALARM CONDUIT.
11. PROVIDE WIREMOLD SURFACE RACEWAY AND ROUTE DOWN WALL TO SURFACE RACEWAY JUNCTION BOX WITH DATA OUTLETS. NUMBER OF RJ45 JACKS SHOWN FOR DATA AND VOIP PHONE. MOUNT NEAR RECEPTACLE. RECEPTACLE TO BE FURNISHED WITH BUILDING.
12. MOUNT RECEPTACLE ABOVE CEILING FOR POWER TO PROJECTOR. ROUTE CIRCUIT TO BUILDING ELECTRICAL PANEL AND CONNECT TO 20 AMP RECEPTACLE FOR A COMPLETE AND OPERATIONAL INSTALLATION.
13. PROVIDE AN EXTERIOR WIRELESS ACCESS PANEL (WAP) ENCLOSURE WITH DATA CABLE FOR EXTERIOR WAP. TERMINATE DATA CABLE IN ENCLOSURE TO CONNECT TO WAP. COORDINATE EXACT EXTERIOR WAP ENCLOSURE WITH COLLEGE DISTRICT IT DEPARTMENT FOR A COMPLETE AND OPERATIONAL INSTALLATION. CAULK AROUND ENCLOSURE AND SEAL EXTERIOR WALL PENETRATION WEATHERPROOF.

GENERAL DATA NOTES

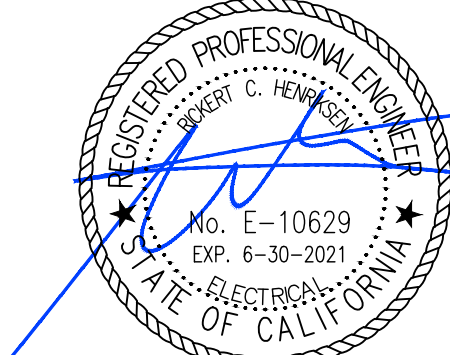
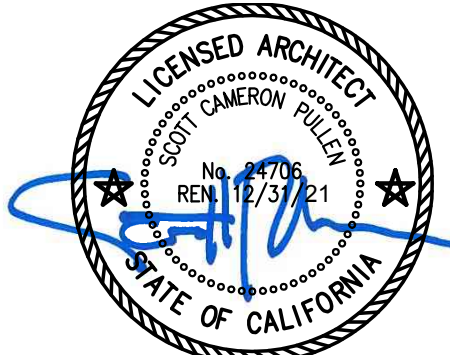
1. ALL DATA CABLES SHALL BE ROUTED BACK TO THE NEW IDF AS SHOWN. CONTRACTOR SHALL COORDINATE WITH COLLEGE DISTRICT IT DEPARTMENT FOR A COMPLETE & OPERATIONAL DATA SYSTEM FOR THE CAMPUS.
2. THE PHONE SYSTEM AT THE SCHOOL WILL BE A VOIP SYSTEM. COORDINATE WITH THE COLLEGE DISTRICT TO PROVIDE THE CORRECT PHONE FOR EACH CLASSROOM.

SIGNAL CABLE SCHEDULE	
TYPE	DESCRIPTION
H	CATEGORY 6 (DATA)
H1	CATEGORY 6A (WIRELESS ACCESS POINT - WAP)
H2	12 STRAND SINGLE MODE FIBER OPTIC (DATA BACKBONE)
PROVIDE AQUASEAL FOR UNDERGROUND CABLES. CONTRACTOR SHALL COORDINATE WITH COLLEGE IT DEPARTMENT FOR EXACT MANUFACTURER AND MODEL NUMBER OF SINGLE MODE FIBER OPTIC AND DATA CABLES.	



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ENLARGED POWER, SIGNAL
PLANS & NOTES

JUNE 1, 2020

DRAWN BY:

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