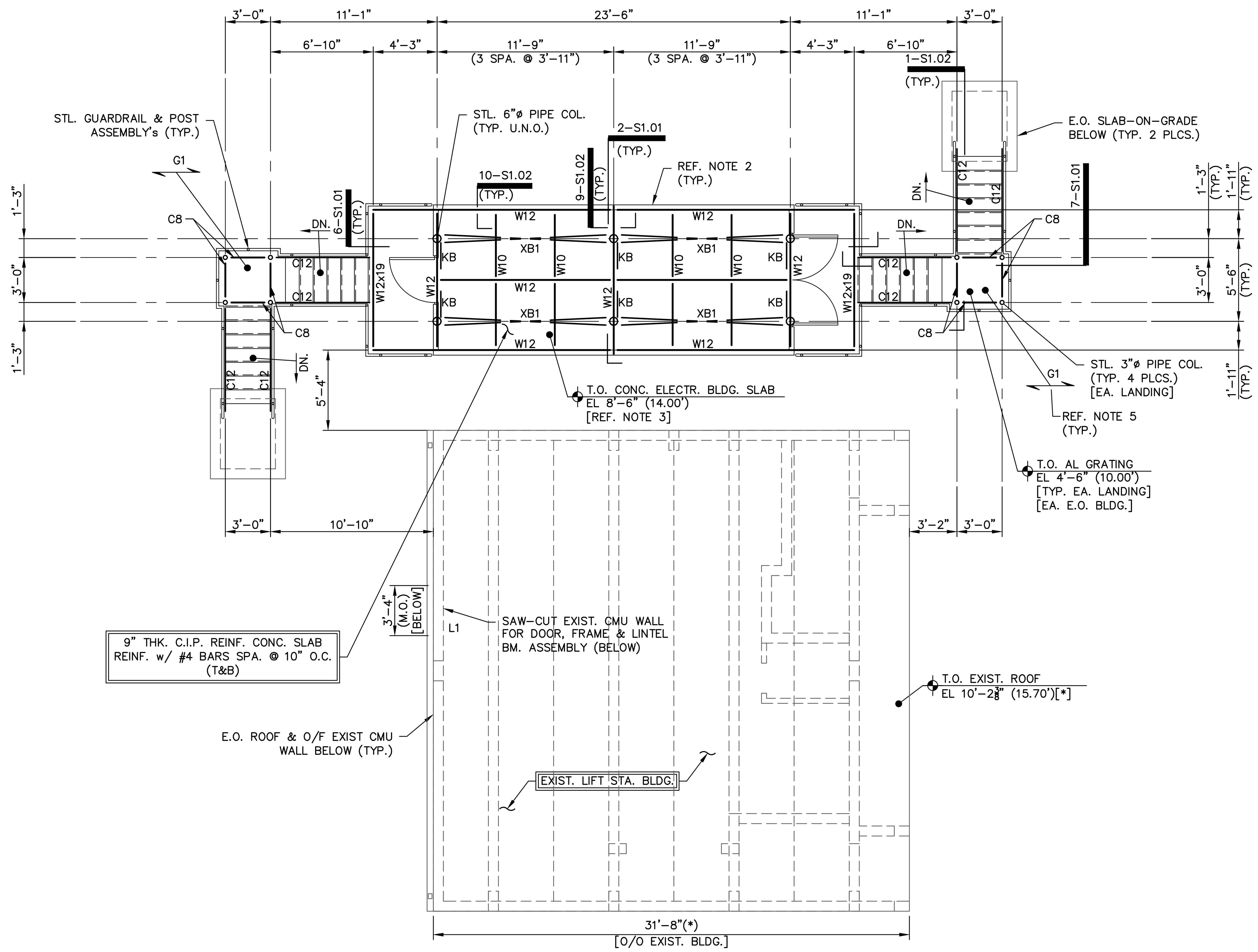


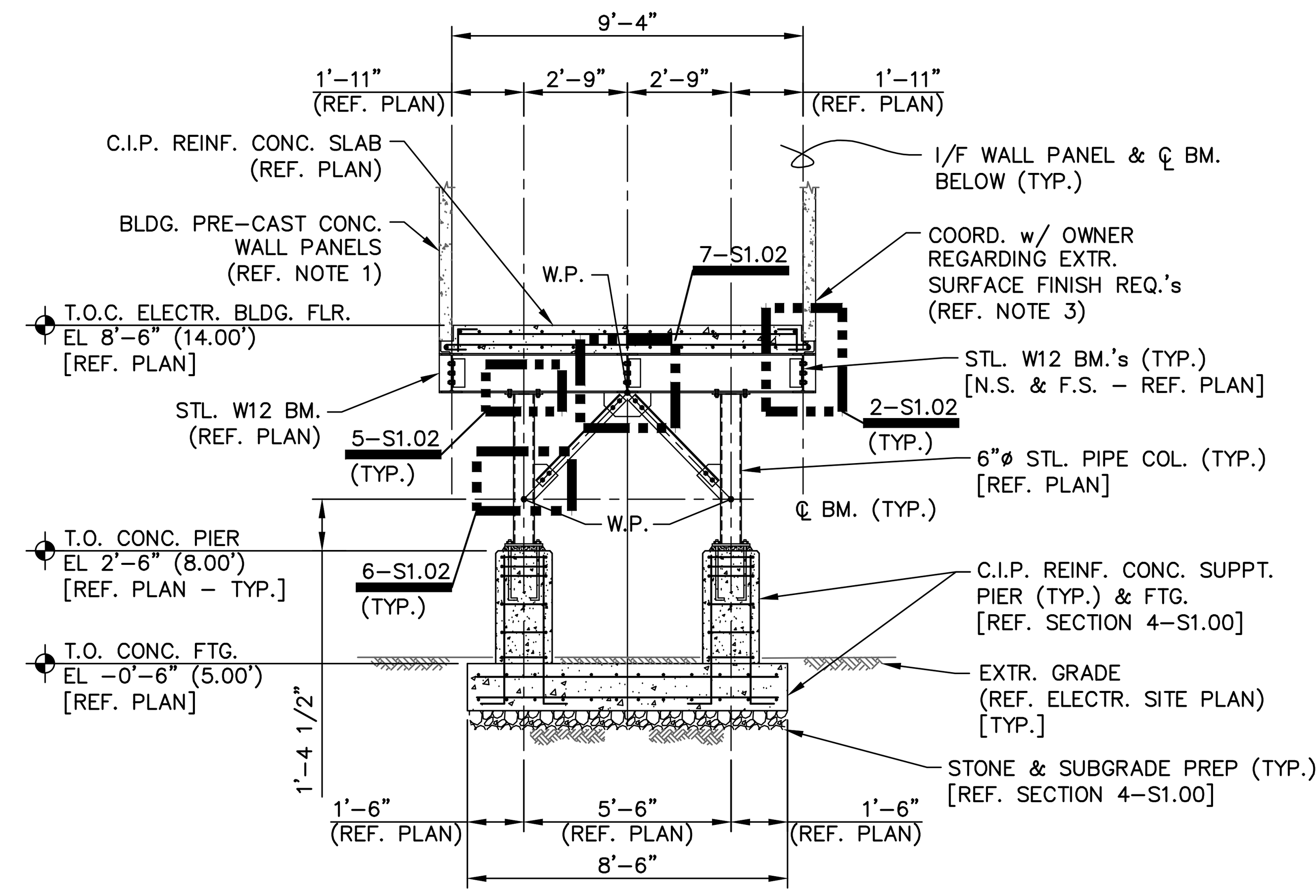
1 - PLAN - EXIST. LIFT STATION MODS & ELECTRICAL BLDG. FRAMING LAYOUT

SCALE: 3/16" = 1'-0"

FRAMING PLAN NOTES:

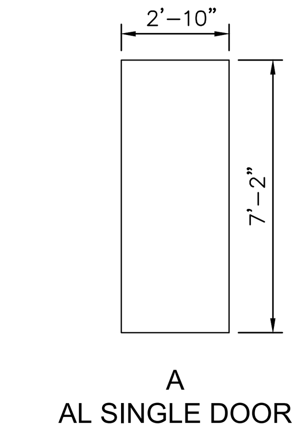
1. REFERENCE ELEVATION FOR THE ELECTRICAL BUILDING ADDITION AT THE EXISTING LIFT STATION FACILITY IS THE EXISTING LIFT STATION BLDG.'s OPERATING FLOOR LEVEL TOP SLAB T.O. CONC. EL 0'-0" = EL 0'-0" (5.50'). CONTRACTOR SHALL VERIFY VERTICAL DATUM INDICATED EQUALS N.A.V.D.-88. REFERENCE ELECTRICAL SITE PLAN DRAWINGS FOR ADDITIONAL INFORMATION.
2. APPROXIMATE OUTLINE OF 24'-0" LONG x 10'-0" WIDE PRE-CAST CONCRETE ELECTRICAL BUILDING ASSEMBLY. REFERENCE ELECTR. DWG.'s & PROJECT SPECIFICATIONS FOR ADD'L INFO.
3. EQUIPMENT LAYOUTS ARE SHOWN FOR GENERAL INFO ONLY. REFERENCE ELECTRICAL & EQUIPMENT VENDOR DRAWINGS FOR LOCATIONS & INFO REGARDING SLAB & WALL PENETRATIONS AND PIPING, CONDUIT & MISCELLANEOUS EQUIPMENT LAYOUTS EITHER SHOWN OR NOT SHOWN.
4. REGARDING STEEL FRAMING ASSEMBLIES NOTE THE FOLLOWING:
   - W12 = W12x35 WIDE FLANGE SECTION.
   - C12 = C12x20.7 CHANNEL SECTION
   - W10 = W10x19 WIDE FLANGE SECTION.
   - C8 = C8x11.5 CHANNEL SECTION.
   - 6"ø = SCHEDULE 80 PIPE SECTION.
   - 3"ø = SCHEDULE 40 PIPE SECTION.
   - KB = L3x3x⅜ ANGLE SECTION.
   - XB1 = L3x3x⅜ ANGLE SECTION.
5. "⟷" SYMBOL ON PLAN INDICATES SPAN DIRECTION OF THE STEEL BAR GRATING ASSEMBLIES MAIN BEARING BARS. IN GENERAL GRATING ASSEMBLIES ARE TO BE MANUFACTURED BY REPUTABLE VENDOR(S) EXPERIENCED IN MANUFACTURING THE ASSEMBLIES REQUIRED. GRATING ASSEMBLIES ARE TO INCLUDE RECTANGULAR MAIN BEARING BARS, RECTANGULAR CROSS BARS OR RODS AND RECTANGULAR BEARING BARS ALONG PERIMETERS OF PANELS AND OPENINGS. FABRICATE ASSEMBLIES w/ GALV'D STEEL FINISH & CONNECTED TO FORM STANDARD PANEL WIDTHS. REFERENCE PLANS, SECTIONS & DETAILS FOR ADDITIONAL INFORMATION & REQUIREMENTS. NOTE THE FOLLOWING:
   - a.) GRATING "G1" = 1¼" LIGHT DUTY WELDED STEEL IN ACCORDANCE w/ MFG.'s 19-4 "W" SERIES SPACE PROFILE.
   - b.) GRATING PANELS SHALL BE ANCHORED TO STEEL FRMG. w/ GALV'D STL. FASTENERS & TYPE AS RECOMMENDED BY THE MANUFACTURER.
   - c.) COORDINATE w/ THE OWNER REGARDING PANEL ASSEMBLIES INCLUDING SERRATED TOP SURFACE SKID FINISH FOR SLIP RESISTANCE.
6. REFERENCE DWG. S0.00 FOR ADDITIONAL GENERAL NOTES, MATERIAL SPECIFICATIONS & REQUIREMENTS, DESIGN CRITERIA AND LEGEND.

NOTES:
1. REFERENCE BLDG. MFG.'s "APPROVED" SUBMITTAL FOR WALL THICKNESS & CONNECTIONS TO THE SLAB-ON-GRADE.
2. PREPARE COMPACTED SUBGRADE IN CONFORMANCE w/ THE PROJECT GEOTECHNICAL REPORT.
3. COORD. w/ OWNER DURING SHOP DWG. SUBMITTAL REVIEWS DURING CONSTR. REGARDING BLOCK EXTERIOR SURFACE FINISH TO BE PROVIDED.



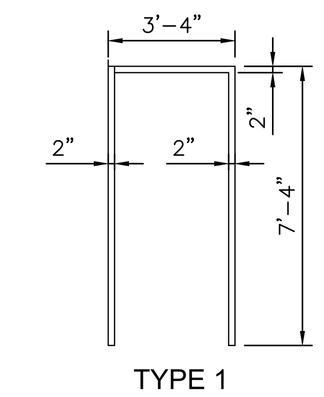
2 - SECTION - THRU ELECTR. BLDG. SUPPT. ASSEMBLY

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



3 - DETAIL - EXIST. BLDG. MOD.'s DOOR TYPES

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



4 - DETAIL - EXIST. BLDG. MOD's DOOR FRAME TYPES

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

DOOR & FRAME SCHEDULE

DOOR NO.	UL LABEL	DOOR						FRAME					HDW. SET	REMARKS
		SIZE			MAT'L	TYPE	GLAZING	MAT'L	TYPE	DETAILS				
		WIDTH	HEIGHT	THK.						HEAD	JAMB	SILL		
D1	N/A	2'-10"	7'-2"	1¾"	AL	A	N/A	AL	1	*1	*1	*1	*2	REF. 3-S1.01 & 4-S1.01

MATERIAL LEGEND:

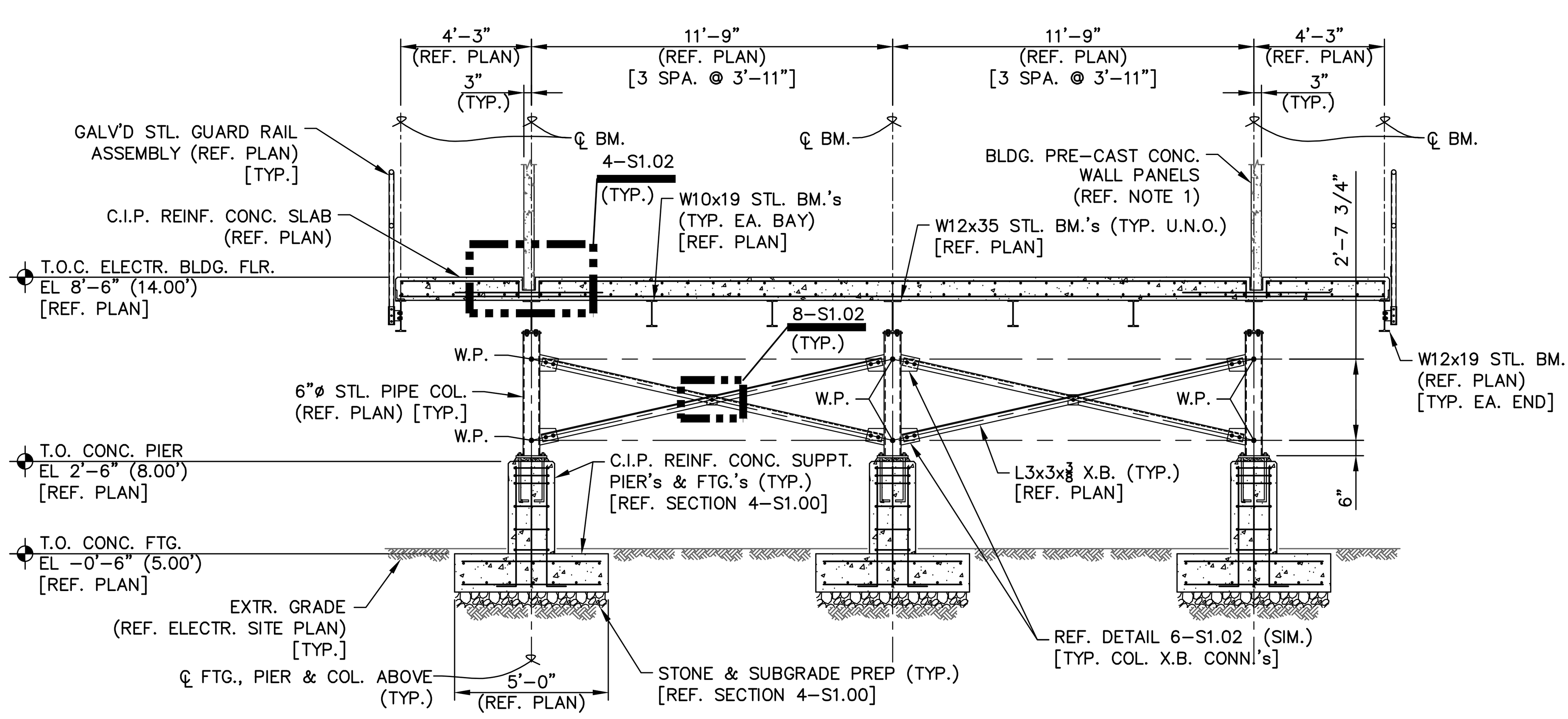
AL -ALUMINUM
IAL -INSULATED ALUMINUM
SCW-SOLID CORE WOOD
SCW-HALF GLASS [WOOD]
FRP - FIBERGLASS REINFORCED PLASTIC
STL - STEEL
F - FLUSH
FG [W] - FULL GLASS [WOOD]
HM -HOLLOW METAL
LAM - LAMINATE
SLG - SIDE LIGHT GLASS

*1 - REF. 12-S1.02 TO 14-S1.02 FOR HEAD, JAMB & SILL DETAILS. 1

*2 - REF. PLAN NOTES & PROJECT SPECS.

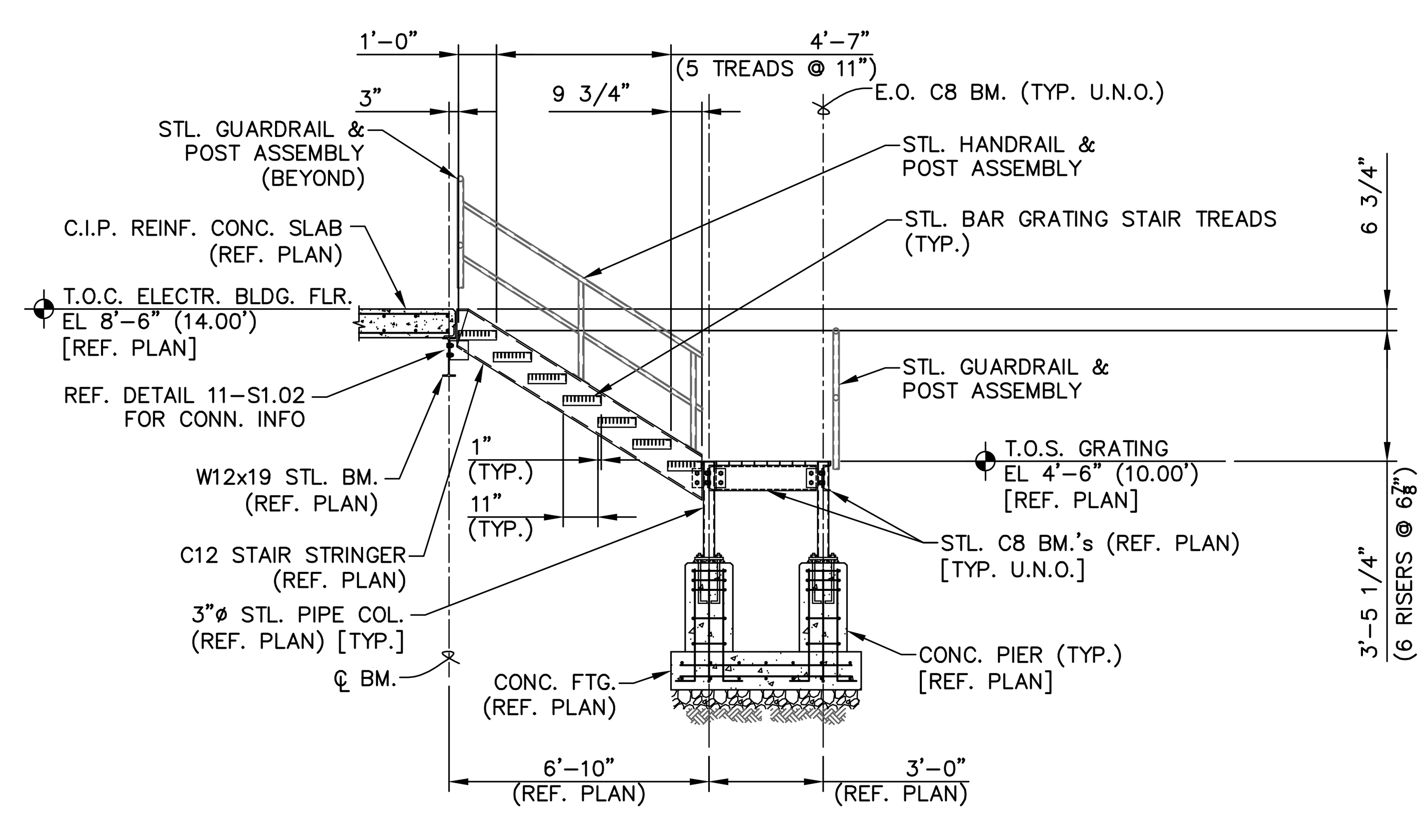
5 - SCHEDULE - DOORS & FRAMES

SCALE: N.T.S.



6 - SECTION - THRU ELECTR. BLDG. SUPPT. ASSEMBLY

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



7 - SECTION - THRU "HI" EAST ACCESS STAIR ASSEMBLY

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

REV.NO.	DESCRIPTION	DATE
1	ADDENDUM #1	JUL 2021
0	ISSUED FOR BID	FEB 2021

REVISIONS

SEAL

WILLIAM F. BAND, LICENSE No 67838, STATE OF FLORIDA, PROFESSIONAL ENGINEER

WILLIAM F. BAND, P.E.
No. 67838

McKIM&CREED
1365 Hamlet Avenue
Clearwater, Florida 33756
Phone: (727) 442-7196, Fax: (727) 461-3827

CA Lic. No. 29588
www.mckimcreed.com

Manatee County FLORIDA

LIFT STATION 12A ELECTRICAL PUMP & VFD REHABILITATION

STRUCTURAL

LIFT STA. MODS & ELECTR. BLDG. FRMG. PLAN, SECTIONS & DETAILS

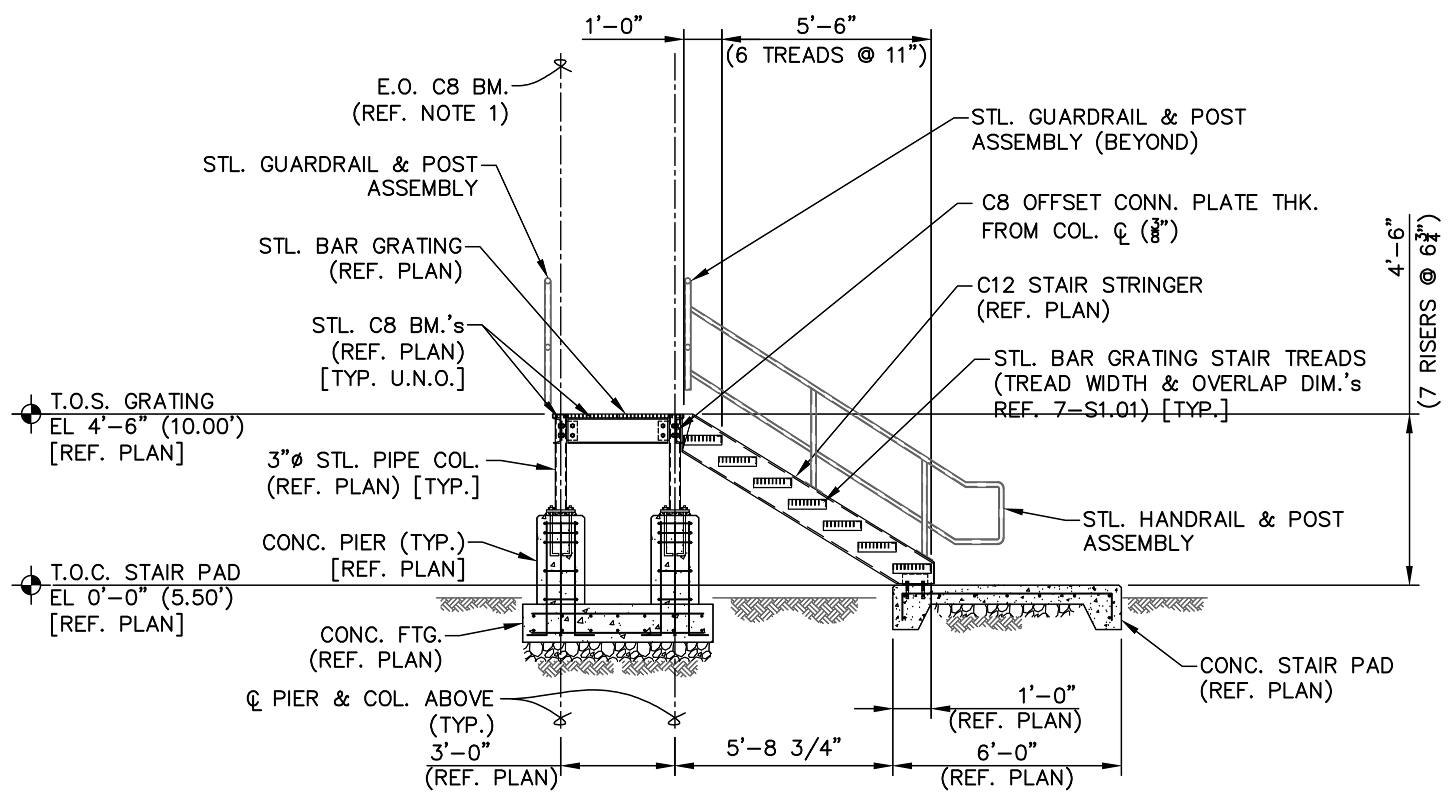
PROJ. START DATE:	2020. JUN
MCE PROJ. #	00069-0047
DRAWN	DAR / WFB
DESIGNED	WFB
CHECKED	WFB / AEA
PROJ. MGR.	AAH

SCALE
HORIZONTAL: AS NOTED
VERTICAL: NA

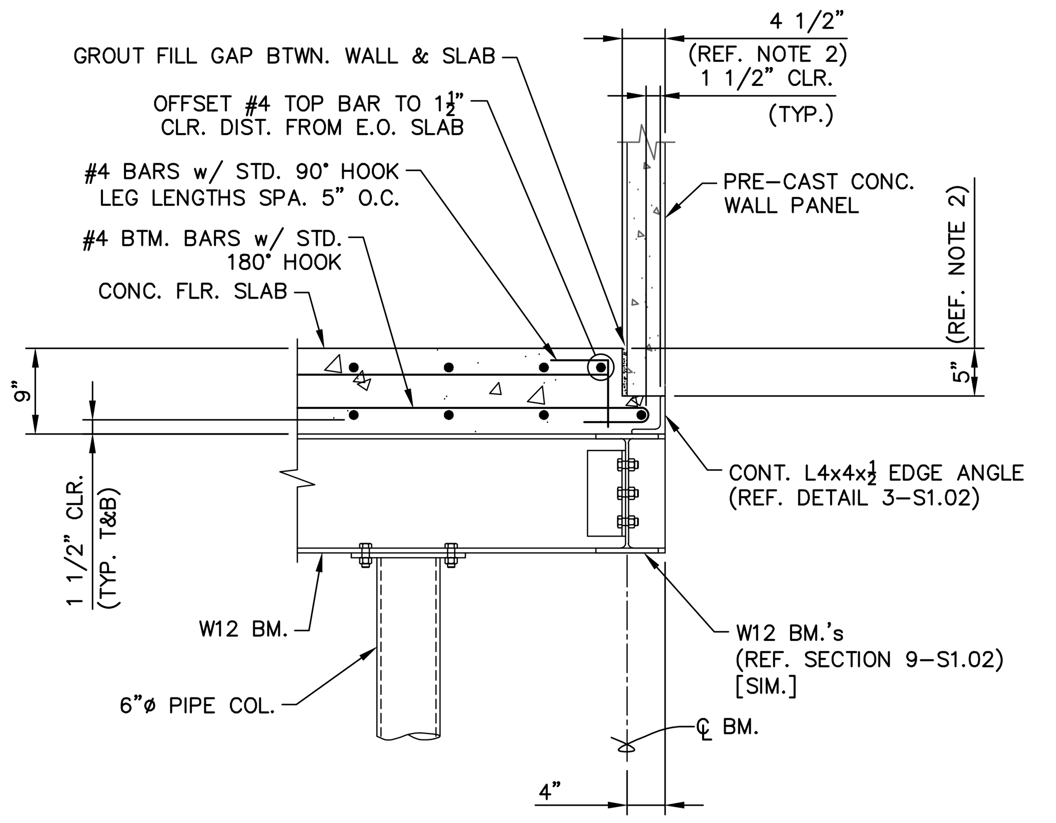
S1.01
DRAWING NUMBER

1
REVISION

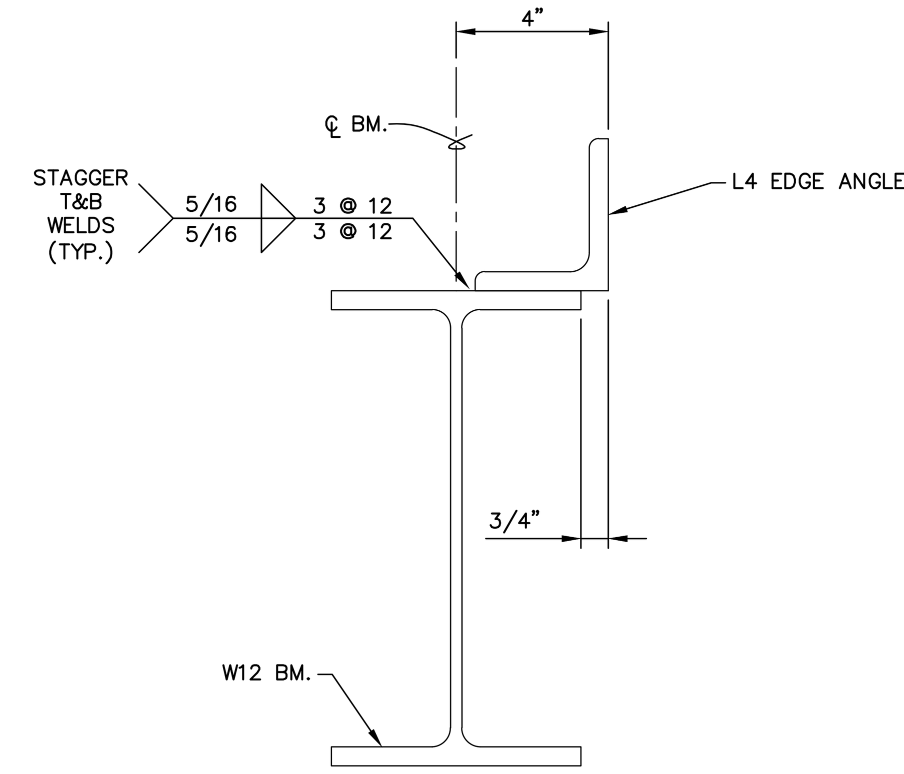
STATUS:
ADDENDUM #1



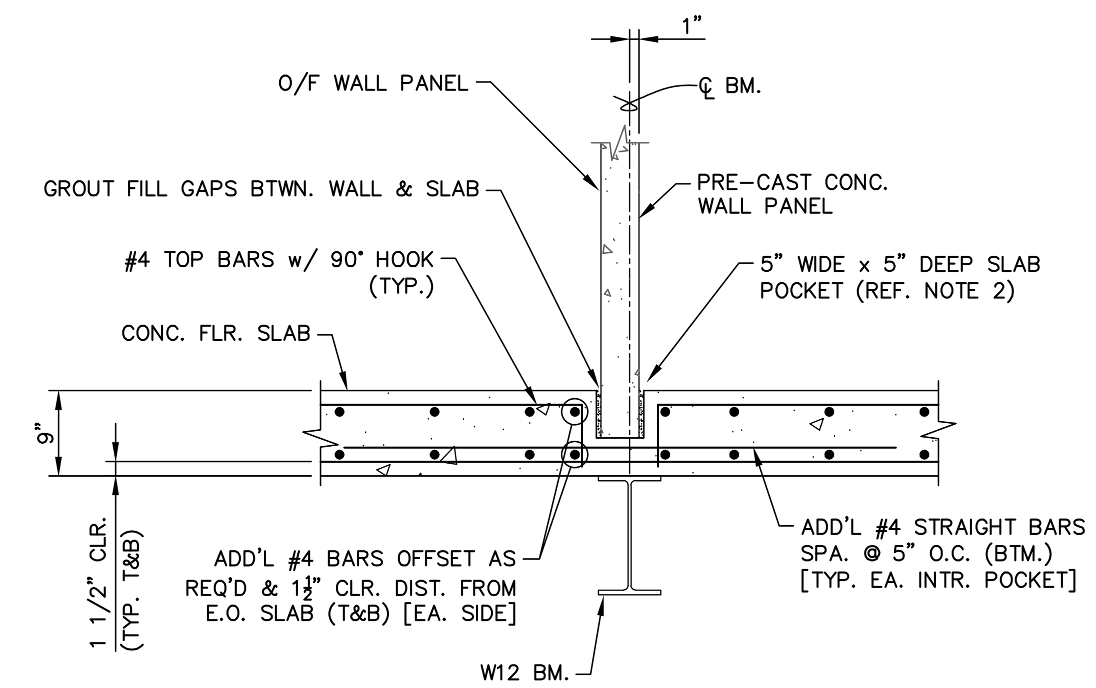
1 - SECTION - THRU "LO" EAST ACCESS STAIR ASSEMBLY
SCALE: 1/4" = 1'-0"



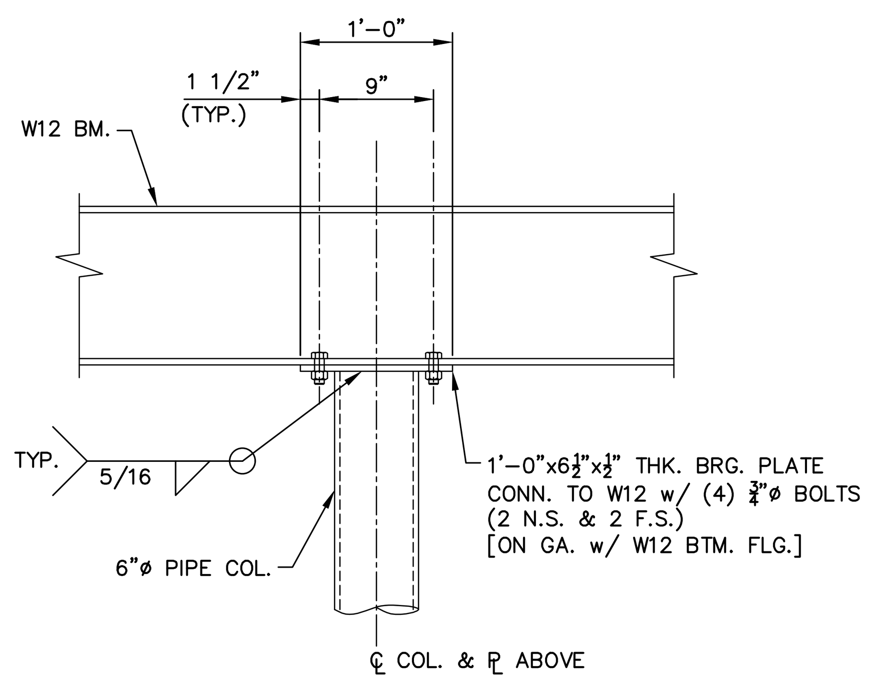
2 - DETAIL - E.O. ELECTR. BLDG. SLAB REINF. & FRMG.
SCALE: 3/4" = 1'-0"



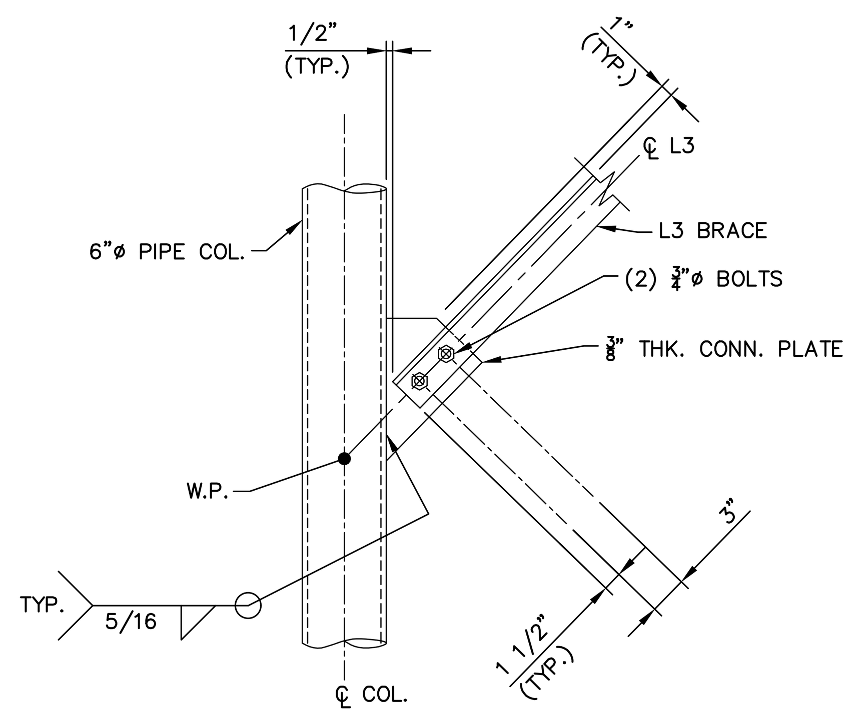
3 - DETAIL - TYP. W12 / L4 CONN.
SCALE: 3" = 1'-0"



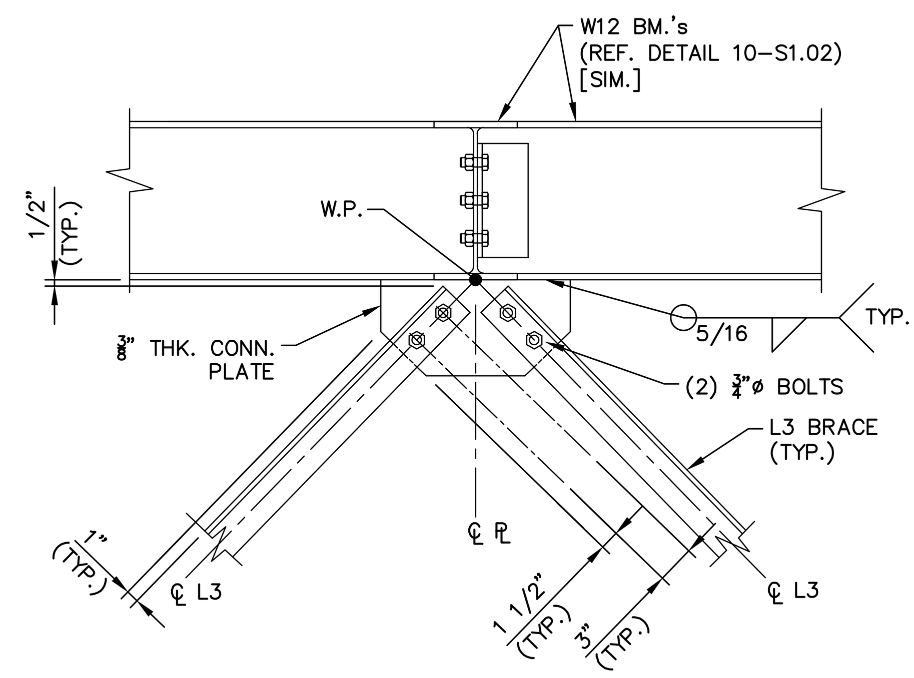
4 - DETAIL - INTR. ELECTR. BLDG. SLAB REINF.
SCALE: 3/4" = 1'-0"



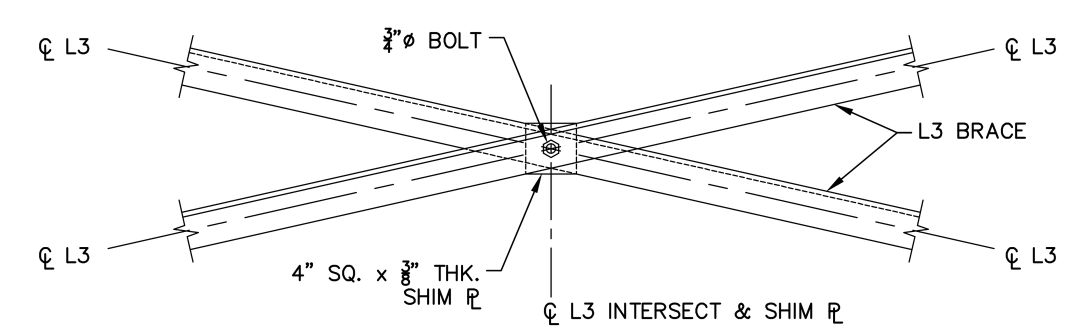
5 - DETAIL - 6"Ø PIPE COL. / W12 BM. CONN.
SCALE: 1" = 1'-0"



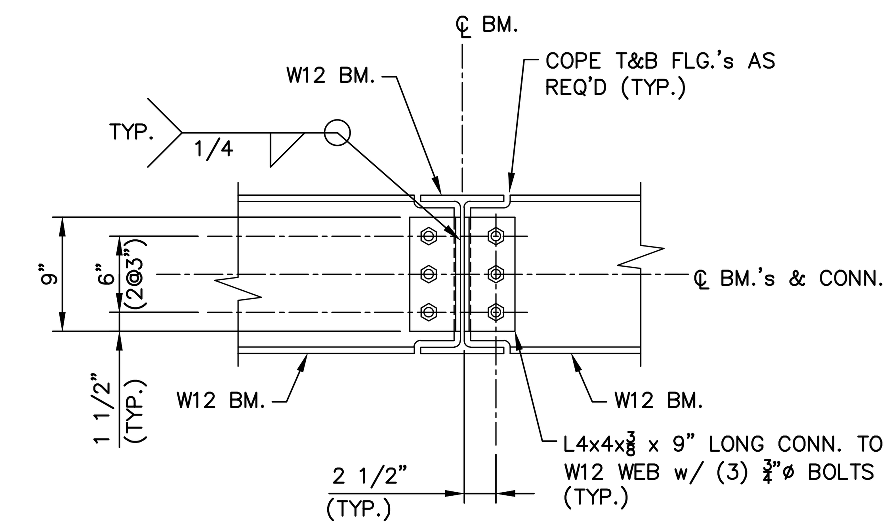
6 - DETAIL - 6"Ø PIPE COL. / L3 K.B. CONN.
SCALE: 1" = 1'-0"



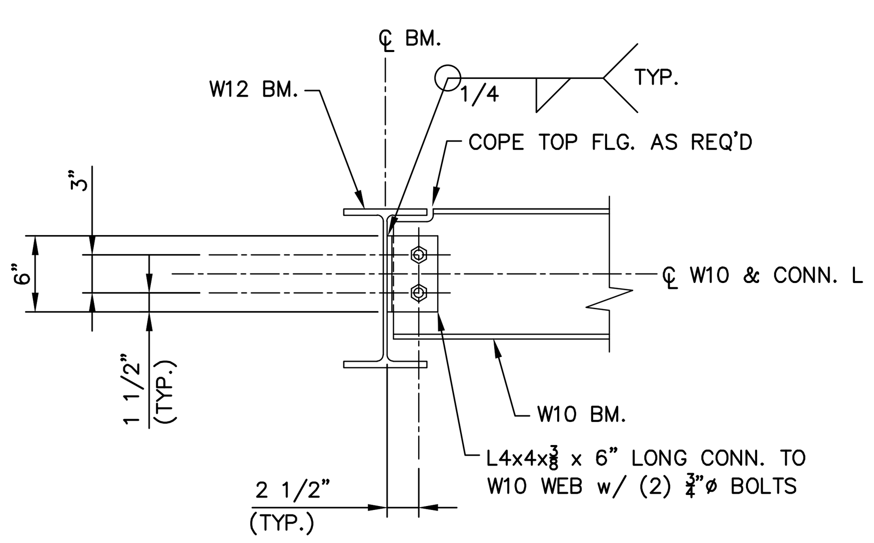
7 - DETAIL - W12 BM. / L3 K.B. CONN.
SCALE: 1" = 1'-0"



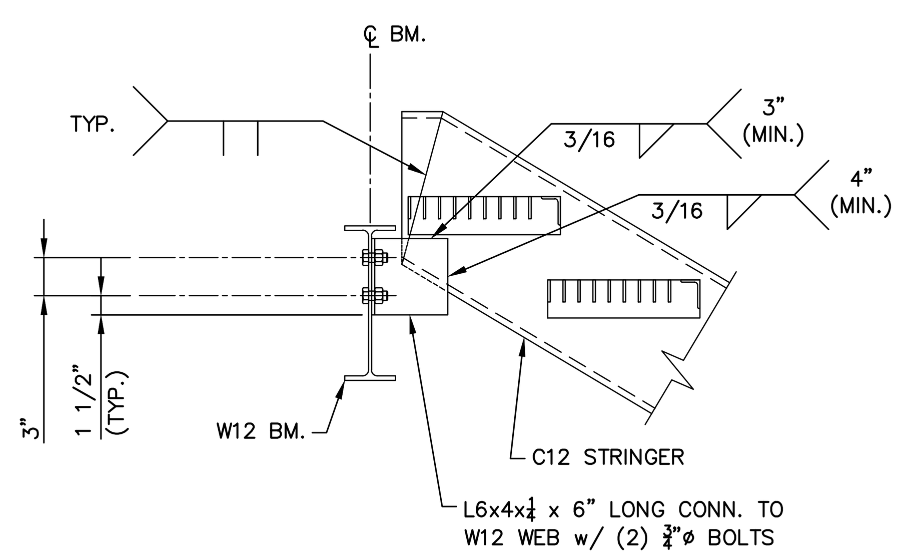
8 - DETAIL - L3 / L3 X.B. CONN.
SCALE: 1" = 1'-0"



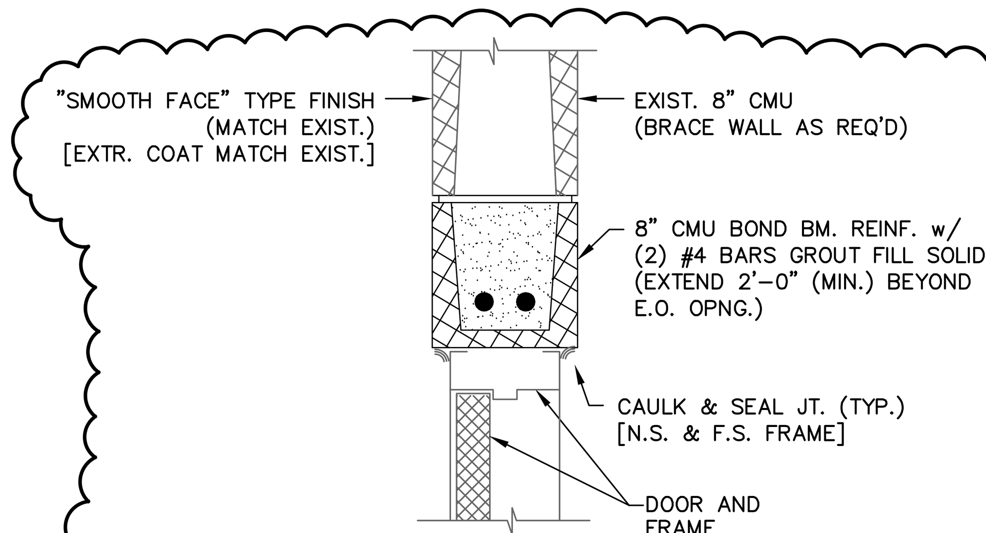
9 - SECTION - W12 BM. / W12 BM. CONN.
SCALE: 1" = 1'-0"



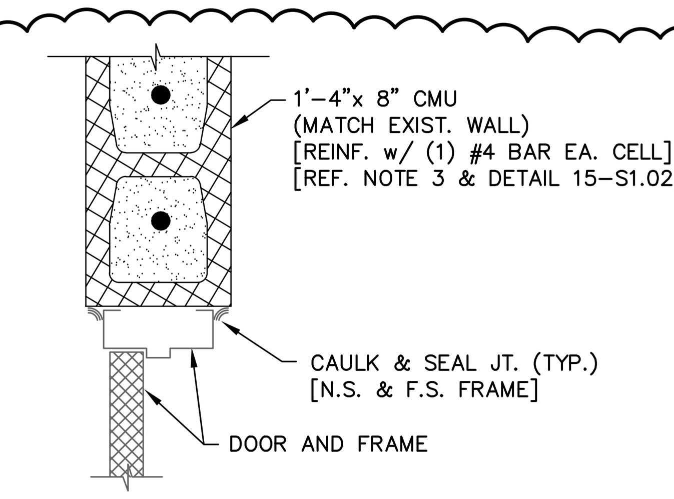
10 - SECTION - W12 BM. / W10 BM. CONN.
SCALE: 1" = 1'-0"



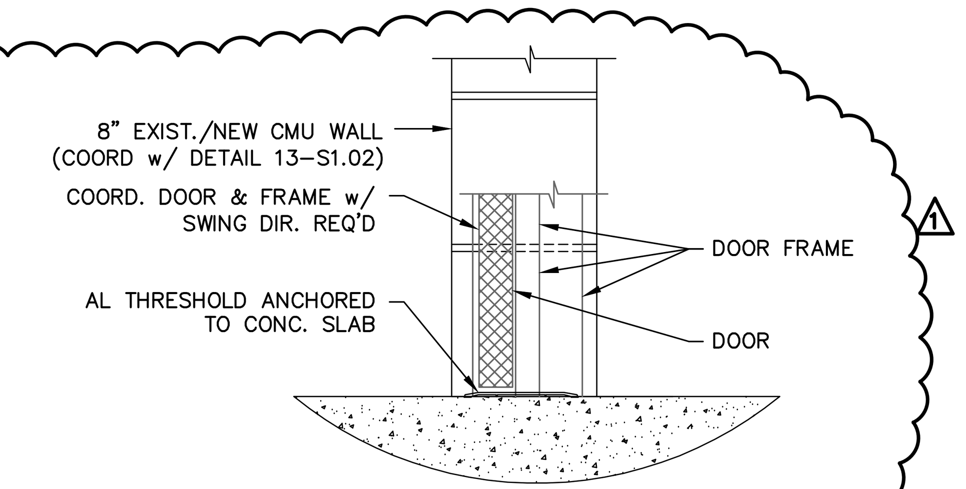
11 - DETAIL - W12 BM. / C12 STRINGER CONN.
SCALE: 1" = 1'-0"



12 - DETAIL - DOOR MOD HEAD
SCALE: 1 1/2" = 1'-0"



13 - DETAIL - DOOR MOD JAMB
SCALE: 1 1/2" = 1'-0"

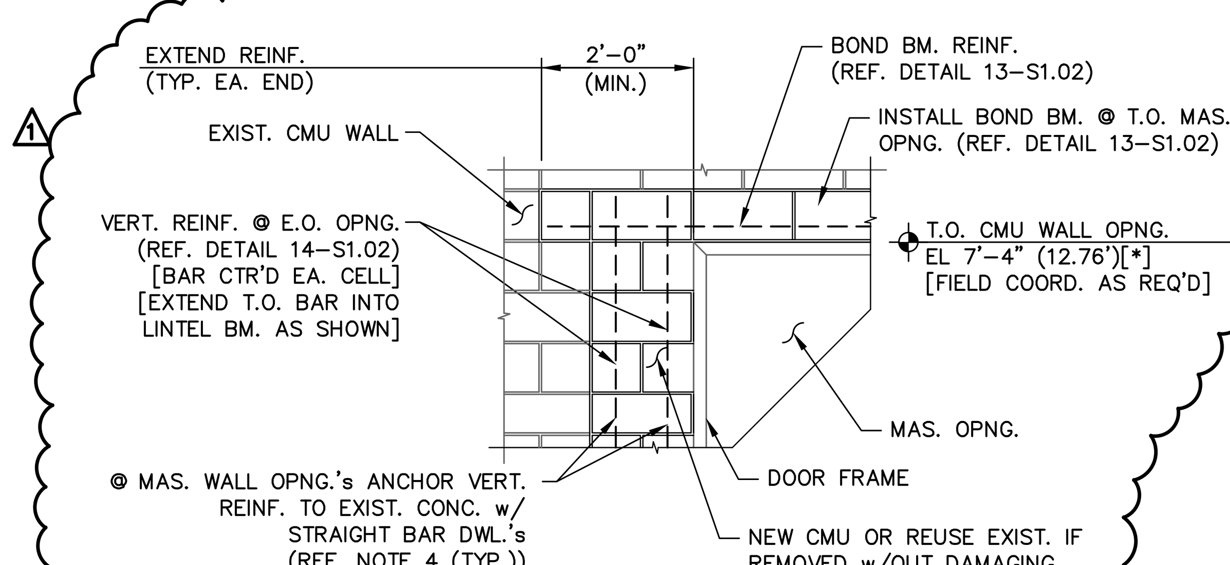


14 - DETAIL - DOOR MOD SILL
SCALE: 1 1/2" = 1'-0"

NOTES:

1. IN GENERAL THE FLAT E.O. CHANNEL FLG.'s/WEB's EQUALS THE COLUMN CENTERLINE & OFFSET CONNECTION TAB PLATES AS REQUIRED U.N.O..
2. SLAB POCKET DEPTH & WIDTH PER REQ.'s OF THE PRECAST BLDG. MFG..
3. PRIOR TO CUTTING EXIST. CMU WALL FOR NEW OPNG. CONTRACTOR TO VERIFY IF EXISTING CELLS GROUTED SOLID & REINFORCED w/ VERTICAL REINFORCING. IF EXISTING CELL IS REINFORCED & GROUTED "JAMB" MODIFICATION NOT REQUIRED.
4. REGARDING SPLICE DWL.'s TO VERTICAL REINFORCING BARS NOTE THE FOLLOWING:
   a.) SPLICE LENGTH = 2'-0" (MIN.).
   b.) ANCHOR DWL. BARS TO EXIST. CONC. w/ HILTI HIT-HY200 ADHESIVE.
   c.) EMBED DWL. DEPTH = 6" (MIN.).
   d.) UTILIZE NON DESTRUCTIVE TESTING AS REQUIRED TO ENSURE NOT DAMAGING EXISTING CONCRETE REINFORCING BARS INSTALLING DOWELS.
5. REFERENCE DWG. S0.00 FOR ADDITIONAL GENERAL NOTES, MATERIAL SPECIFICATIONS & REQUIREMENTS, DESIGN CRITERIA AND LEGEND.

1



15 - DETAIL - MAS. OPNG. MOD REQ.'s
SCALE: 1/2" = 1'-0"

REV.NO.	DESCRIPTION	DATE
1	ADDENDUM #1	JUL 2021
0	ISSUED FOR BID	FEB 2021

REVISIONS

SEAL
WILLIAM F. BAND, P.E. No. 67838
WILLIAM F. BAND LICENSE No 67838 STATE OF FLORIDA PROFESSIONAL ENGINEER

McKIM&CREED
1365 Hamlet Avenue
Clearwater, Florida 33756
Phone: (727) 442-7196, Fax: (727) 461-3827
CA Lic. No. 29588
www.mckimcreed.com

Manatee County FLORIDA

LIFT STATION 12A ELECTRICAL PUMP & VFD REHABILITATION

STRUCTURAL

LIFT STA. MODS ADD'L SECTIONS & DETAILS

PROJ. START DATE:	2020. JUN
MCE PROJ. #	00069-0047
DRAWN	DAR / WFB
DESIGNED	WFB
CHECKED	WFB / AEA
PROJ. MGR.	AAH

SCALE
HORIZONTAL: AS NOTED
VERTICAL: NA

S1.02
DRAWING NUMBER
1
REVISION

STATUS:
ADDENDUM #1

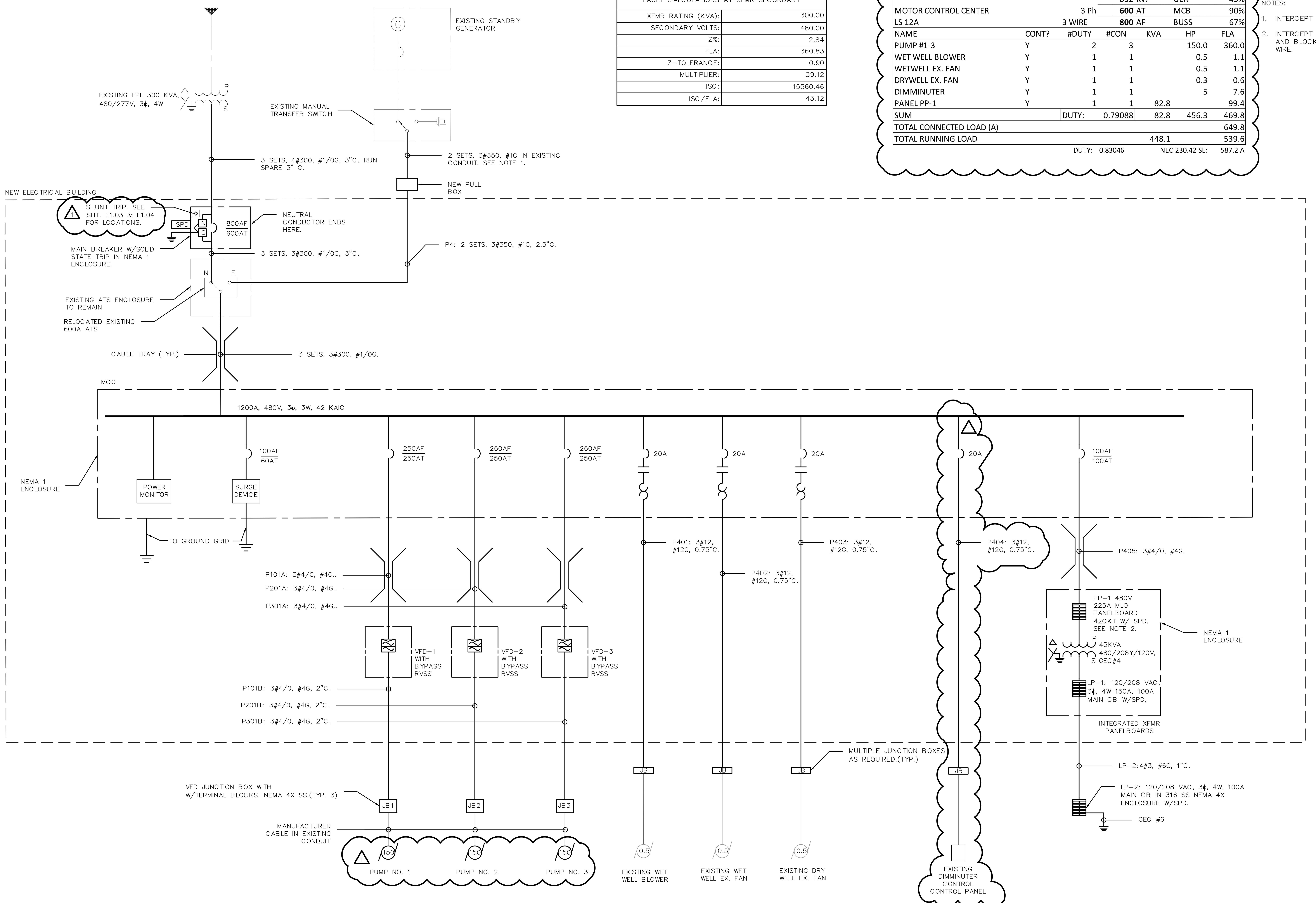
I:\01024\0181\WATER\80-DRAWINGS\STRUCTURAL\S102-SD401-10240181.DWG 06/30/2021 16:30:45 BILL BAND

FAULT CALCULATIONS AT XFMR SECONDARY	
XFMR RATING (KVA):	300.00
SECONDARY VOLTS:	480.00
Z%:	2.84
FLA:	360.83
Z–TOLERANCE:	0.90
MULTIPLIER:	39.12
ISC:	15560.46
ISC/FLA:	43.12

LOAD TABLE		480V	300 KVA		XFR	149%
			832 KW		GEN	43%
MOTOR CONTROL CENTER		3 Ph	600 AT		MCB	90%
LS 12A		3 WIRE	800 AF		BUSS	67%
NAME	CONT?	#DUTY	#CON	KVA	HP	FLA
PUMP #1-3	Y	2	3		150.0	360.0
WET WELL BLOWER	Y	1	1		0.5	1.1
WETWELL EX. FAN	Y	1	1		0.5	1.1
DRYWELL EX. FAN	Y	1	1		0.3	0.6
DIMMINUTER	Y	1	1		5	7.6
PANEL PP-1	Y	1	1	82.8		99.4
SUM		DUTY:	0.79088	82.8	456.3	469.8
TOTAL CONNECTED LOAD (A)						649.8
TOTAL RUNNING LOAD				448.1		539.6
		DUTY:	0.83046		NEC 230.42 SE:	587.2 A

NOTES:

1. INTERCEPT EXISTING CONDUITS AND PULL NEW WIRES.
2. INTERCEPT CONDUIT FOR GENERATOR BATTERY CHARGER AND BLOCK HEATER AND ROUTE TO PP–1, PULL NEW WIRE.



REV.NO.	DESCRIPTION	DATE
1	ADDENDUM 1	JUNE 2021
0	ISSUED FOR BID	MAR 2021

REVISIONS

SEAL
AUBREY ARMAND HAUDRICOURT
LICENSE No 66861
STATE OF FLORIDA
PROFESSIONAL ENGINEER
AUBREY A. HAUDRICOURT, P.E.
No. 66861

McKIM&CREED
1365 Hamlet Avenue
Clearwater, Florida 33756
Phone: (727) 442-7196, Fax: (727) 461-3827
CA Lic. No. 29588
www.mckimcreed.com

Manatee County FLORIDA

LIFT STATION 12A ELECTRICAL PUMP & VFD REHABILITATION

ELECTRICAL

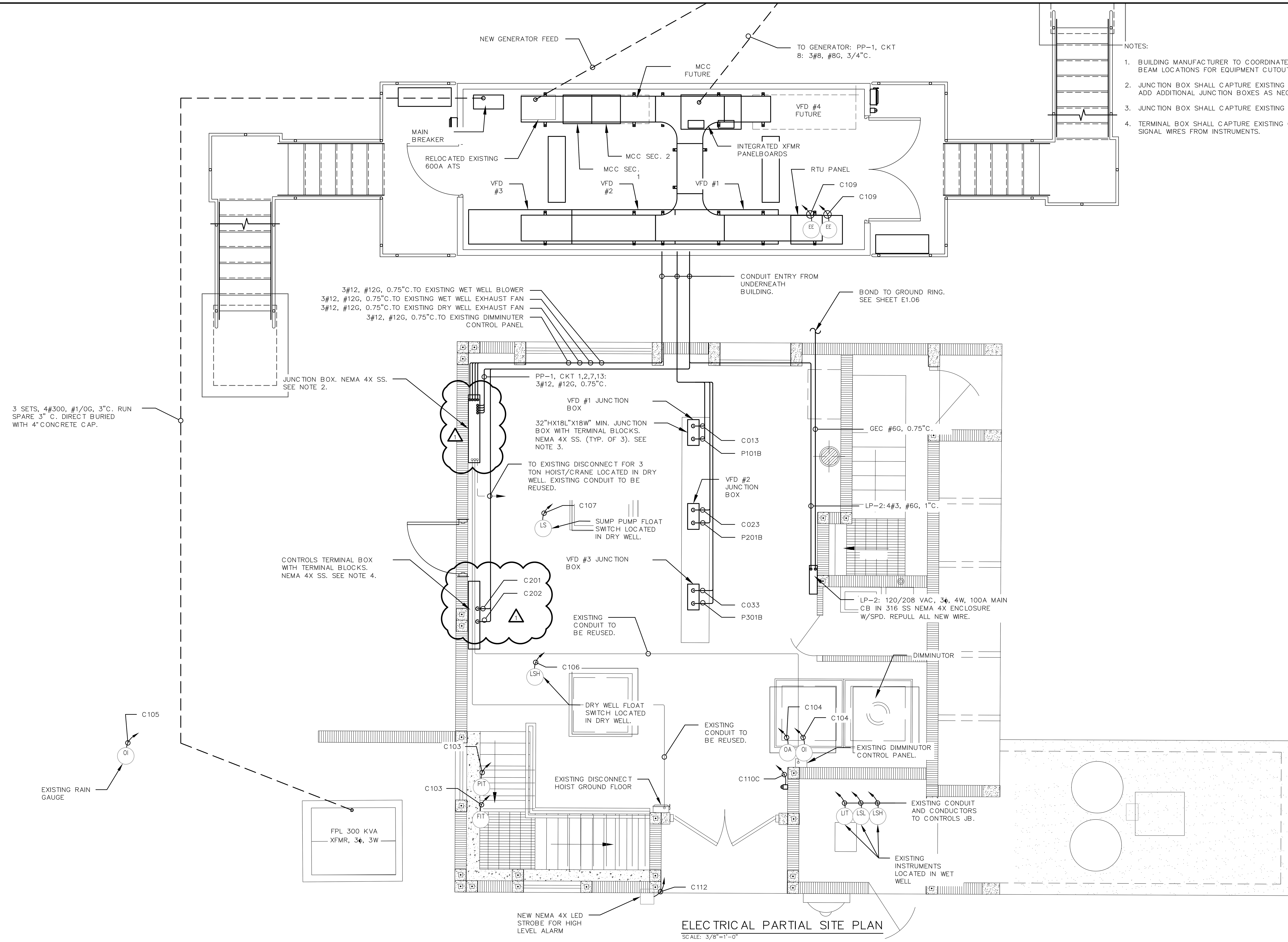
SINGLE LINE DIAGRAM

PROJ. START DATE:	2020, JUN
MCE PROJ. #	01024-0181
DRAWN	JG
DESIGNED	SS
CHECKED	MAC
PROJ. MGR.	AAH

SCALE
HORIZONTAL: N/A
VERTICAL: TBD

E1.01
DRAWING NUMBER
0
REVISION

STATUS: ISSUED FOR BID



ELECTRICAL PARTIAL SITE PLAN
SCALE: 3/8"=1'-0"

NOTES:

1. BUILDING MANUFACTURER TO COORDINATE W/STRUCTURAL ON BEAM LOCATIONS FOR EQUIPMENT CUTOUTS.
2. JUNCTION BOX SHALL CAPTURE EXISTING CONDUITS TO EQUIPMENT. ADD ADDITIONAL JUNCTION BOXES AS NECESSARY.
3. JUNCTION BOX SHALL CAPTURE EXISTING CONDUIT TO DRY WELL.
4. TERMINAL BOX SHALL CAPTURE EXISTING CONDUITS. INTERCEPT SIGNAL WIRES FROM INSTRUMENTS.

REV.NO.	DESCRIPTION	DATE
1	ADDENDUM 1	JUNE 2021
0	ISSUED FOR BID	MAR 2021

REVISIONS

SEAL
AUBREY ARMAND HAUDRICOURT LICENSE No 66861 STATE OF FLORIDA PROFESSIONAL ENGINEER
AUBREY A. HAUDRICOURT, P.E.
No. 66861

McKIM&CREED
1365 Hamlet Avenue
Clearwater, Florida 33756
Phone: (727) 442-7196, Fax: (727) 461-3827
CA Lic. No. 29588
www.mckimcreed.com

Manatee County FLORIDA

LIFT STATION 12A ELECTRICAL PUMP & VFD REHABILITATION

ELECTRICAL
ELECTRICAL PARTIAL SITE PLAN

PROJ. START DATE:	2020. JUN
MCE PROJ. #	01024-0181
DRAWN	JG
DESIGNED	SS
CHECKED	MAC
PROJ. MGR.	AAH

SCALE
HORIZONTAL: 3/8"=1'-0"
VERTICAL: TBD

E1.03
DRAWING NUMBER
0
REVISION

STATUS:
ISSUED FOR BID

\\MCKIMCREED.COM\NASUNI\DATA\PROJ\01024\0181\WATER\80-DRAWINGS\ELECTRICAL\ELECTRICAL POWER PLAN.DWG 07/14/2021 12:59:39 SUVATH SENG

NOTES:

1. CONTRACTOR TO CORE DRILL ALL CONDUIT PENETRATIONS THROUGH CONCRETE AND SEAL AFTER INSTALLATION WITH ECOFLEX PRODUCT OR EQUAL. DUCT SEAL NOT ALLOWED. SEE SHEET E1.08 – LIGHTING PLAN FOR EQUIPMENT CUTOUT LOCATIONS.
2. CABLE TRAY REMOVED FOR CLARITY. SEE E1.05
3. EXISTING ATS TO BE MOUNTED IN 91.5"H X 30"W X 24"D, NEMA 1 ENCLOSURE BY UL CERTIFIED PANEL SHOP W/LABEL.

SEE SHEET E1.03 FOR CONTINUATION

ELECTRICAL BUILDING POWER PLAN
SCALE: 1"=1'-0"

REV.NO.	DESCRIPTION	DATE
1	ADDENDUM 1	JUNE 2021
0	ISSUED FOR BID	MAR 2021

REVISIONS

SEAL
AUBREY ARMAND HAUDRICOURT
LICENSE
No 66861
STATE OF FLORIDA
PROFESSIONAL ENGINEER
AUBREY A. HAUDRICOURT, P.E.
No. 66861

MCKIM&CREED
1365 Hamlet Avenue
Clearwater, Florida 33756
Phone: (727) 442-7196, Fax: (727) 461-3827
CA Lic. No. 29588
www.mckimcreed.com

Manatee County
FLORIDA

LIFT STATION 12A ELECTRICAL PUMP & VFD REHABILITATION

ELECTRICAL

ELECTRICAL BUILDING POWER PLAN

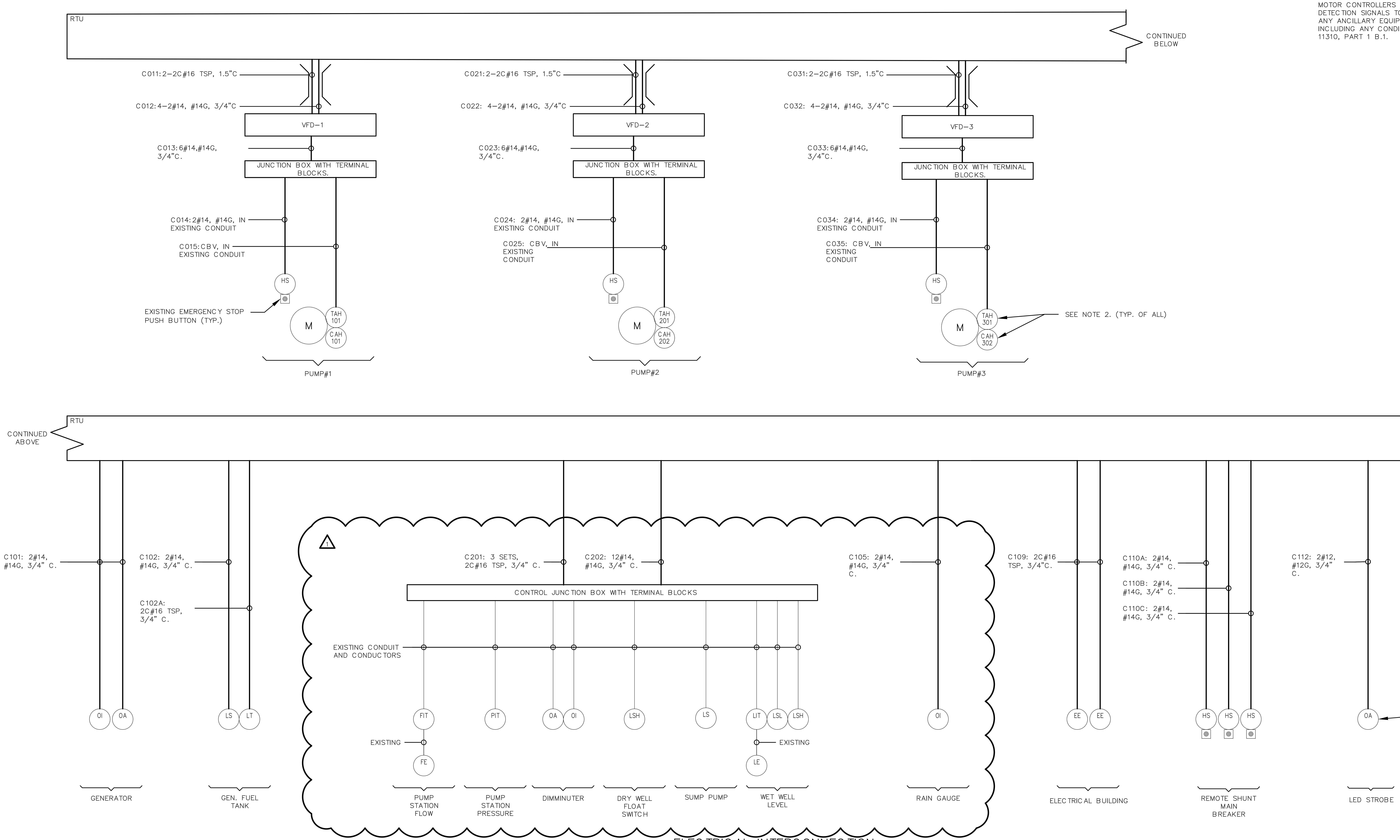
PROJ. START DATE:	2020. JUN
MCE PROJ. #	01024-0181
DRAWN	JG
DESIGNED	SS
CHECKED	MAC
PROJ. MGR.	AAH

SCALE
HORIZONTAL: 1"=1'-0"
VERTICAL: TBD

E1.04
DRAWING NUMBER
0
REVISION

STATUS:
ISSUED FOR BID

NOTES:
1. SURGE PROTECTION DEVICES REQUIRED, THOUGH GENERALLY NOT SHOWN. REFER TO I-SHEETS AND CONTRACT SPECIFICATIONS FOR REQUIREMENTS.
2. COORDINATE WITH THE PROVIDER OF THE VARIABLE FREQUENCY MOTOR CONTROLLERS TO PROVIDE THE THERMAL AND LEAK DETECTION SIGNALS TO THE DRIVE MANUFACTURER AND SUPPLY ANY ANCILLARY EQUIPMENT REQUIRED FOR THESE SIGNALS, INCLUDING ANY CONDITIONING DEVICES. SEE SPECIFICATIONS 11310, PART 1 B.1.



ELECTRICAL INTERCONNECTION DIAGRAM

SCALE: NTS

REV.NO.	DESCRIPTION	DATE
1	ADDENDUM 1	JUNE 2021
0	ISSUED FOR BID	MAR 2021

REVISIONS

SEAL: AUBREY ARMAND HAUDRICOURT, LICENSE No 66861, STATE OF FLORIDA, PROFESSIONAL ENGINEER

AUBREY A. HAUDRICOURT, P.E.
No. 66861

McKIM&CREED
1365 Hamlet Avenue
Clearwater, Florida 33756
Phone: (727) 442-7196, Fax: (727) 461-3827

CA Lic. No. 29588
www.mckimcreed.com

Manatee County FLORIDA

LIFT STATION 12A ELECTRICAL PUMP & VFD REHABILITATION

ELECTRICAL

ELECTRICAL INTERCONNECTION DIAGRAM

PROJ. START DATE:	2020, JUN
MCE PROJ. #	01024-0181
DRAWN	JG
DESIGNED	SS
CHECKED	MAC
PROJ. MGR.	AAH

SCALE
HORIZONTAL: N/A
VERTICAL: TBD

E1.09
DRAWING NUMBER
0
REVISION

STATUS:
ISSUED FOR BID

\\MCKIMCREED.COM\NASUNI\DATA\PROJ\01024\0181\WATER\80-DRAWINGS\ELECTRICAL\INTERCONNECT.DWG 07/14/2021 13:00:53 SUVATH SENG

CKT NO.	TRIP AMPS	DESCRIPTION OF LOAD	LOAD KVA	AMPS	POLES	KVA PER PHASE A	B	C	POLES	AMPS	LOAD KVA	DESCRIPTION OF LOAD	TRIP AMPS	CKT NO.
1	20	HOIST DRY WELL	0.27	1.0	3	2.1			3	6.5	1.8	ODOR CONTROL	20	2
			0.27				2.1				1.8			
			0.27					2.1			1.8			
7	20	HOIST GROUND FLOOR	0.27	1.0	3	10.3			3	36.1	10	30KVA EXISITNG GENERATOR	50	8
			0.27				10.3				10	TRANSFORMER		
			0.27					10.3			10			
13	20	HOIST OVER WET WELL	0.27	1.0	3	15.3			3	54.1	15	45KVA TRANSFORMER	70	14
			0.27				15.3				15			
			0.27					15.3			15			
19	20	SPARE			3	0.0			3			SURGE PROTECTION DEVICE	20	20
							0.0							
								0.0						
25	30	SPARE			3	0.0			3				20	26
							0.0							
								0.0						
31	30	SPARE			3	0.0			3			SPARE	30	32
							0.0							
								0.0					30	
37		SPACE			3	0.0			3			SPACE		38
							0.0							
								0.0						

PANEL **PP-1**
LOCATION MANATEE COUNTY LS12A
BUILDING ELECTRICAL BUILDING
NOTES: INTEGRATED PANELBOARD

	A	B	C
TOTAL KVA	27.6	27.6	27.6
GRAND CONNECTED TOTAL KVA	82.8		

SERVICE CHARACTERISTICS
VOLTS: 480
PHASE: 3
WIRE: 3
225 A MLO
0 A MCB
10K MIN AIC SYMM, FULLY RATED ASSEMBLY

PANEL SCHEDULE PP-1
SCALE: NTS

CKT NO.	TRIP AMPS	DESCRIPTION OF LOAD	LOAD KVA	AMPS	POLES	KVA PER PHASE A	B	C	POLES	AMPS	LOAD KVA	DESCRIPTION OF LOAD	TRIP AMPS	CKT NO.
1	20	ELEC. BUILDING RECEPTACLES OUTSIDE	0.36	3.0	1	0.5			1	1.5	0.18	ELEC. BUILDING EMERG. EXIT LIGHT	20	2
3	20	ELEC. BUILDING RECEPTACLES INSIDE	0.72	6.0	1		1.5		1	6.7	0.8	ELEC. BUILDING LIGHTING INSIDE	20	4
5	20	ELEC. BUILDING OUTSIDE WALL PACKS	0.5	4.2	1			2.1	2	15.4	1.6	ELEC. BUILDING AC OUTDOOR UNIT #1	25	6
7	15	ELEC. BUILDING AC INDOOR UNIT #1	0.1	1.0	2	1.7					1.6			
			0.1				1.7		2	15.4	1.6	ELEC. BUILDING AC OUTDOOR UNIT #2	25	10
11	15	ELEC. BUILDING AC INDOOR UNIT #2	0.1	1.0	2			1.7			1.6			
			0.1			7.5			3	61.7	7.4	PANEL LP-2	100	14
15	20	SURGE PROTECTION DEVICE			3		7.4				7.4			
								7.4			7.4			
						1.5			1	12.5	1.5	RTU CONTROL PANEL	20	20
21	20	SPARE			1		0.0		1			SPARE	20	22
23	20	SPARE			1			0.0	1			SPARE	20	24
25	20	SPARE			1	0.0			1			SPARE	20	26
27	20	SPARE			1		0.0		1			SPARE	20	28
29	20	SPARE			1			0.0	1			SPARE	20	30
31	20	SPARE			1	0.0			1			SPARE	20	32
33	20	SPARE			1		0.0		1			SPARE	20	34
35	20	SPARE			1			0.0	1			SPARE	20	36
37	20	SPARE			1	0.0			1			SPARE	20	38
39	20	SPARE			1		0.0		1			SPARE	20	40
41	20	SPARE			1			0.0	1					42

PANEL **LP-1**
LOCATION MANATEE COUNTY LS12A
BUILDING NEW ELECTRICAL BUILDING
NOTES: INTEGRATED PANELBOARD

	A	B	C
TOTAL KVA	11.3	10.6	11.2
GRAND CONNECTED TOTAL KVA	33.1		

SERVICE CHARACTERISTICS
VOLTS: 208Y/120
PHASE: 3
WIRE: 4
A MLO
150 A MCB
10K MIN AIC SYMM, FULLY RATED ASSEMBLY

PANEL SCHEDULE LP-1
SCALE: NTS

CKT NO.	TRIP AMPS	DESCRIPTION OF LOAD	LOAD KVA	AMPS	POLES	KVA PER PHASE A	B	C	POLES	AMPS	LOAD KVA	DESCRIPTION OF LOAD	TRIP AMPS	CKT NO.
1	30	UNKNOWN	0.18	1.5	1	0.4			1	1.5	0.18	UNKNOWN	15	2
3	15	BATTERY CHARGER	0.06	0.5	1		1.2		1	9.2	1.1	#1 PUMP SPEED CONTROLLER	15	4
5	30	#2 PUMP SPEED CONTROLLER	1.1	9.2	1			2.2	1	9.2	1.1	#4 PUMP SPEED CONTROLLER	15	6
7	20	SUMP PUMP	0.07	0.6	1	1.6			1	12.5	1.5	WET WELL LIGHTS	20	8
9	20	OPER FLOOR LIGHTS	1.2	10.0	1		2.4		1	10.0	1.2	OPER FLOOR LIGHTS	20	10
11	20	OUTDOOR FLOODLIGHTS	1.2	10.0	1			2.2	1	8.3	1	OUTDOOR FLOODLIGHTS	20	12
13	20	CHLOR STORAGE LIGHTS			1	0.1			1	0.7	0.08	OPER FLOOR RECEPTACLES	20	14
15	20	OPER FLOOR RECEPTACLES	1	8.3	1		2.4		1	11.7	1.4	DRY WELL LIGHTS	20	16
17	20	DRY WELL LIGHTS	1.4	11.7	1			1.4	1	0.1	0.01	TOILET LIGHTS	20	18
19	20	CHLORINATOR HEATER	0.05	0.4	1	0.1			2			SPARE	20	20
21	20	SURGE PROTECTION DEVICE	0.1	0.8	3		0.1							
			0.1					0.1	3			SPARE	30	24
			0.1			0.1								
27					1		0.0							
29	20	SPARE			1			0.0	1			SPARE	20	30
31	20	SPARE			1	0.0			1			SPARE	20	32
33	20	SPARE			1		0.0		1			SPARE	20	34
35	20	SPARE			1			0.0	1			SPARE	25	36
37	20	SPARE			1	0.0			1			SPARE	20	38
39	20	SPARE			1		0.0		1			SPARE	20	40
41	20	SPARE			1			0.0	1			SPARE	20	42

PANEL **LP-2**
LOCATION MANATEE COUNTY
BUILDING OLD PUMP BUILDLING
NOTES:

	A	B	C
TOTAL KVA	2.2	6.1	5.9
GRAND CONNECTED TOTAL KVA	14.1		

SERVICE CHARACTERISTICS
VOLTS: 208Y/120
PHASE: 3
WIRE: 4
A MLO
100 A MCB
10K MIN AIC SYMM, FULLY RATED ASSEMBLY

PANEL SCHEDULE LP-2
SCALE: NTS

REV.NO.	DESCRIPTION	DATE
1	ADDENDUM 1	JUNE 2021
0	ISSUED FOR BID	MAR 2021

REVISIONS

SEAL
AUBREY ARMAND HAUDRICOURT
LICENSE
No 66861
STATE OF FLORIDA
PROFESSIONAL ENGINEER
AUBREY A. HAUDRICOURT, P.E.
No. 66861

McKIM&CREED
1365 Hamlet Avenue
Clearwater, Florida 33756
Phone: (727) 442-7196, Fax: (727) 461-3827
CA Lic. No. 29588
www.mckimcreed.com

Manatee County FLORIDA

LIFT STATION 12A ELECTRICAL PUMP & VFD REHABILITATION

ELECTRICAL
PANELBOARD SCHEDULES

PROJ. START DATE:	2020. JUN
MCE PROJ. #	01024-0181
DRAWN	JG
DESIGNED	SS
CHECKED	MAC
PROJ. MGR.	AAH

SCALE
HORIZONTAL: N/A
VERTICAL: TBD

E1.10
DRAWING NUMBER
0
REVISION

STATUS:
ISSUED FOR BID