

VALLEY VIEW RESERVOIR MIXER IMPROVEMENTS PROJECT

CITY OF ALBANY

DESIGN TEAM

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SHEET INDEX

GENERAL

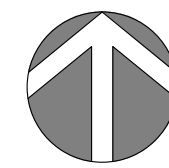
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CIVIL

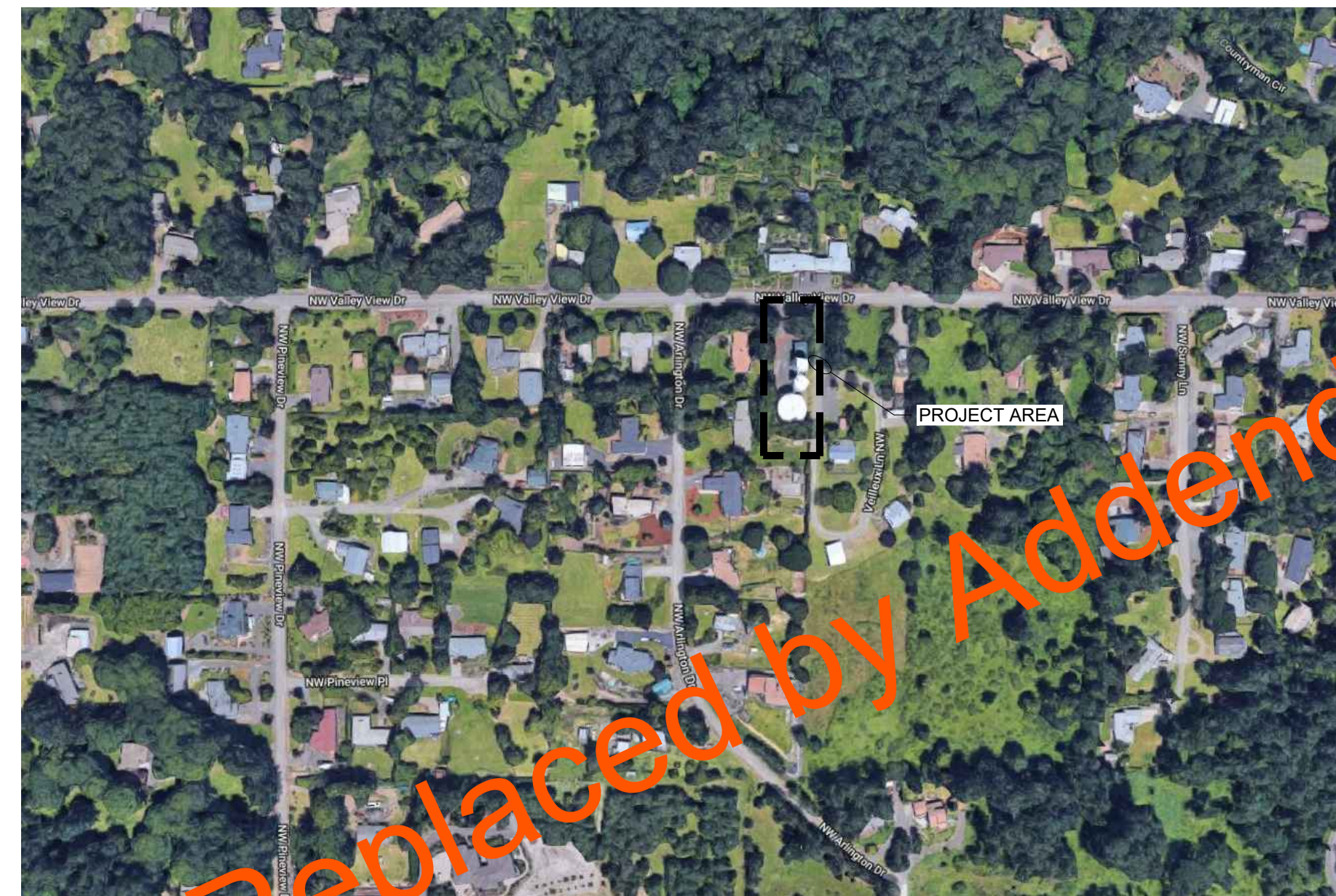
C1.01 - RESERVOIR STILLING WELL PLAN & DETAILS
 C1.02 - RESERVOIR STILLING WELL DETAILS
 C1.03 - CATHODIC PROTECTION ANODE ANCHORS

ELECTRICAL

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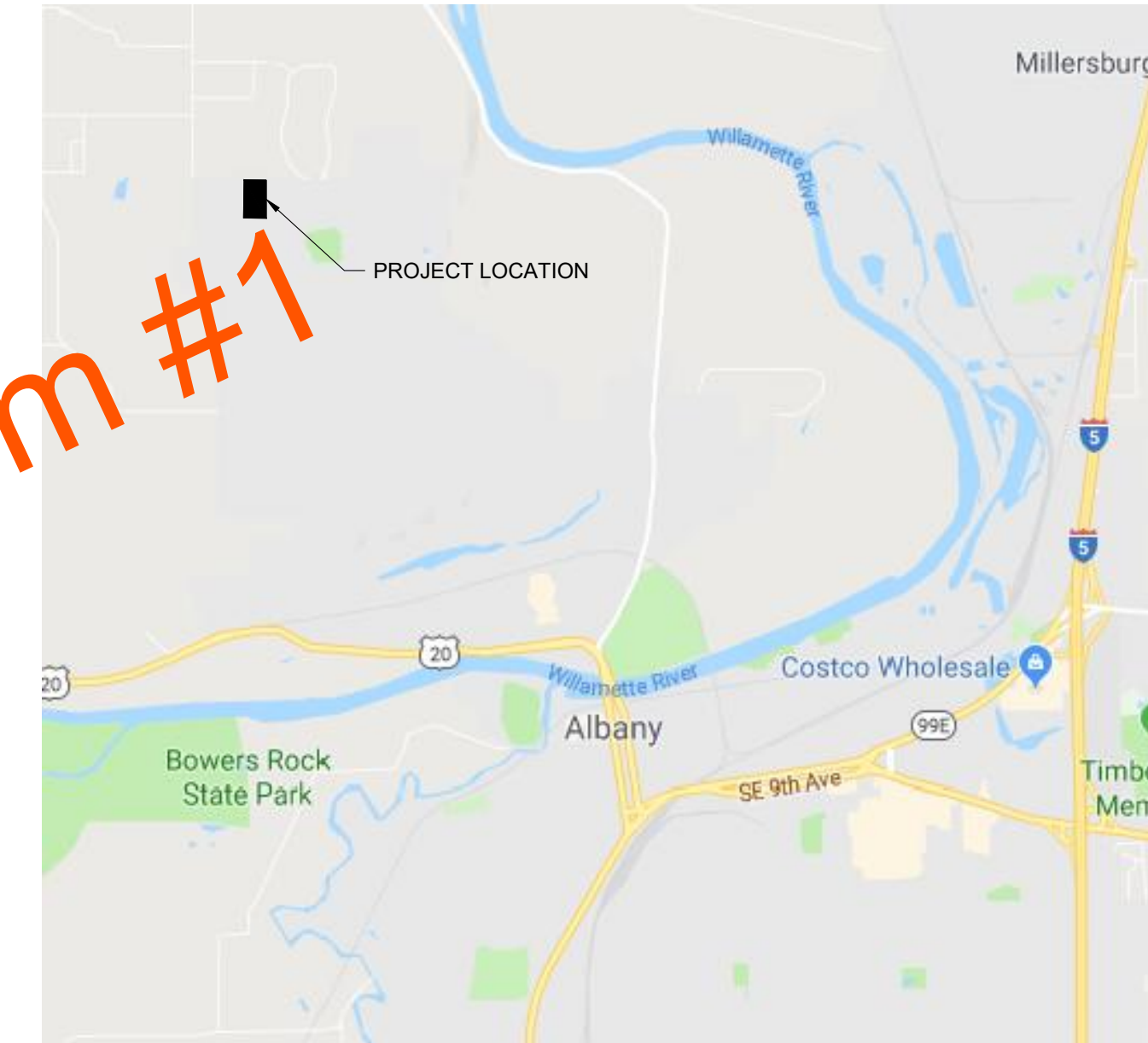


VICINITY MAP



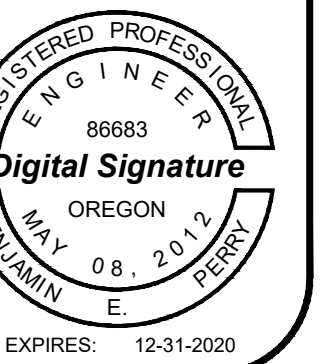
FACILITY ADDRESS
 Valley View Reservoir
 3240 Valley View Drive
 Albany, Oregon 97321

LOCATION MAP



Replaced by Addendum #1

Landis Consulting
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 6446 Fairway Ave. SE, Suite 220
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CITY OF ALBANY
VALLEY VIEW RESERVOIR MIXER IMPROVEMENTS PROJECT
 3240 VALLEY VIEW DRIVE
 ALBANY, OREGON 97321

Rev	Description

COVER SHEET

Design: DML
 Drawn: JCL
 Checked: BEP
 Date: 8/05/2019
 Proj. No.: 7021801
 Drawing No.:

G1.00

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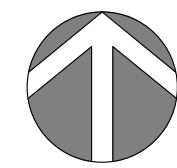
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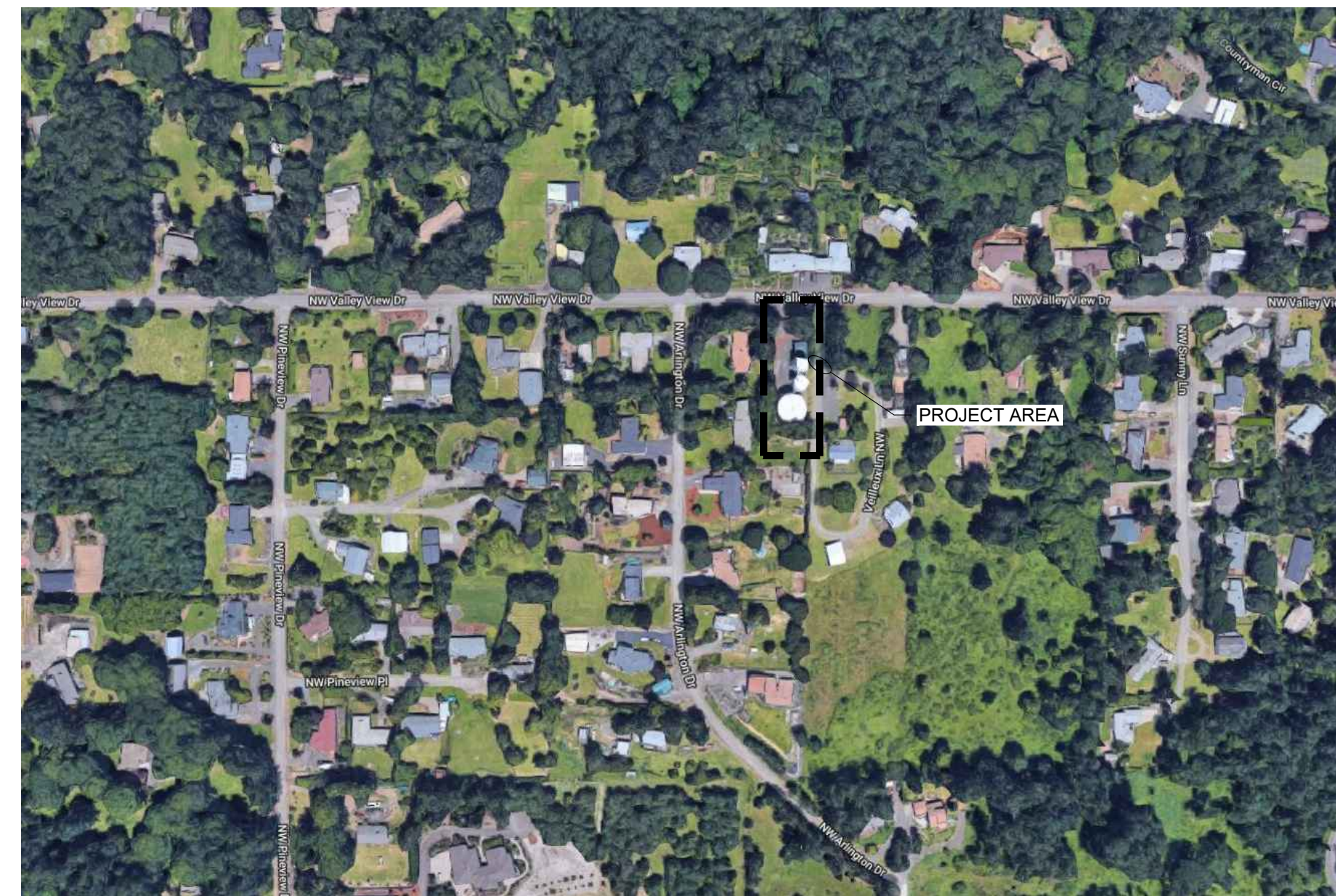
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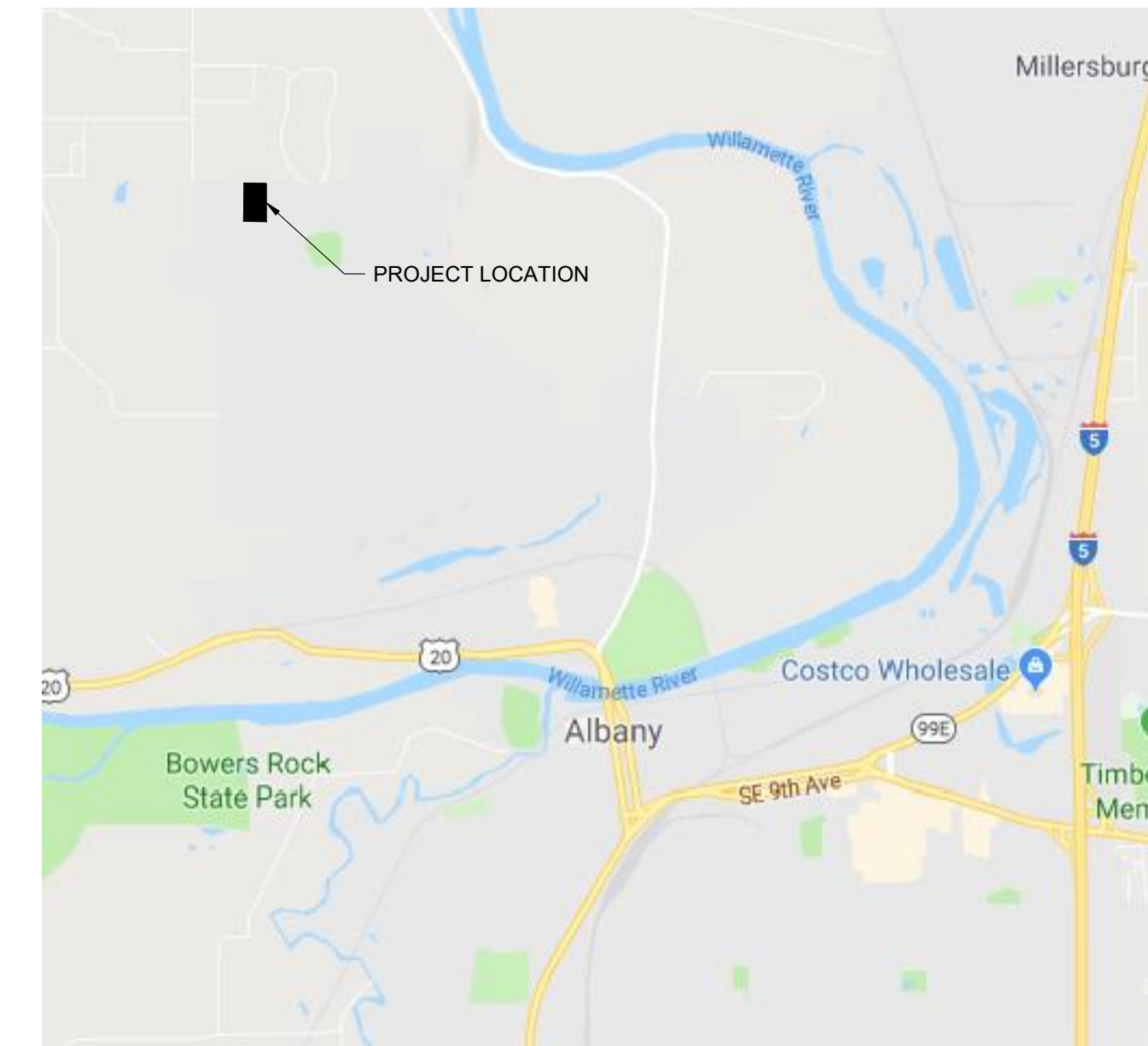


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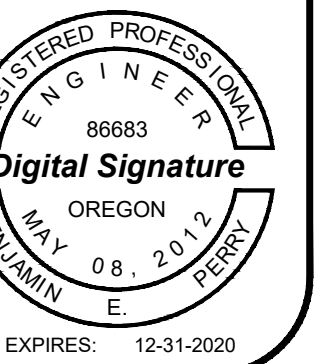


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1	Revision 1 - 08/28/2019

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Electrical Abbreviations & Symbol Legend

Abbreviations

A	AMPERE
AC	ALTERNATING CURRENT, AIR CONDITIONING UNIT
AHJ	AUTHORITY HAVING JURISDICTION
AIC	AVAILABLE INTERRUPTING CAPACITY
AF	AMPERE FRAME / AMPERE FUSED
AFC	ABOVE FINISHED CEILING
AFF	ABOVE FINISHED FLOOR
AFG	ABOVE FINISHED GRADE
ANSI	AMERICAN NATIONAL STANDARDS INSTITUTE
ARMS	ARC FLASH REDUCTION MAINTENANCE SYSTEM
AT	AMPERE TRIP
AV	AUDIO / VIDEO
AWG	AMERICAN WIRE GAUGE
BAS	BUILDING AUTOMATION SYSTEM
BFG	BELOW FINISHED GRADE
BLDG	BUILDING
C	CONDUIT
CAT	CATEGORY
CB	CIRCUIT BREAKER
CFCI	CONTRACTOR FURNISHED, CONTRACTOR INSTALLED
CFOI	CONTRACTOR FURNISHED, OWNER INSTALLED
CKT	CIRCUIT
CPT	CONTROL POWER TRANSFORMER
CR	CONTROL RELAY
CU	COPPER
dB	DECIBAL
DC	DIRECT CURRENT
DIM	DIMENSION
DIV	DIVISION
DTL	DETAIL
DWG	DRAWING
EL	ELEVATION
EMT	ELECTRICAL METALLIC TUBING
EOLR	END OF LINE RESISTOR
ETR	EXISTING DEVICE SHALL REMAIN
FACP	FIRE ALARM CONTROL PANEL
FF	FINISH FLOOR
FLA	FULL LOAD AMPERES
FT	FOOT, FEET
FBO	FURNISHED BY OTHERS
G, GND	GROUND
GFCI	GROUND FAULT CIRCUIT INTERRUPTER
HH	HAND HOLE
HP	HORSEPOWER
ID	IDENTIFICATION
IDC	INITIATING DEVICE CIRCUIT
IDF	INTERMEDIATE DISTRIBUTION FRAME
IEEE	INSTITUTE OF ELECTRICAL AND ELECTRONICS ENGINEERS
IG	ISOLATED GROUND
IT	INFORMATION TECHNOLOGY
JB	JUNCTION BOX
KAIC	THOUSAND AMPS INTERRUPTING CURRENT
KCMIL	THOUSAND CIRCULAR MILS
KVA	KILOVOLT-AMPERE
KW	KILOWATT
LAN	LOCAL AREA NETWORK
LED	LIGHT EMITTING DIODE
LS	LIMIT SWITCH
LSI	ELECTRONIC TRIP UNIT ADJUSTABLE LONG TIME DELAY, SHORT TIME DELAY, INSTANTANEOUS TRIP
LSIG	ELECTRONIC TRIP UNIT WITH ADJUSTABLE LONG TIME DELAY, SHORT TIME DELAY, INSTANTANEOUS TRIP, AND GROUND FAULT LOW VOLTAGE
LV	LOW VOLTAGE
MCA	MINIMUM CIRCUIT AMPACITY
MCC	MOTOR CONTROL CENTER
MCP	MOTOR CIRCUIT PROTECTOR
MDF	MAIN DISTRIBUTION FRAME
MHZ	MEGAHERTZ
MISC	MISCELLANEOUS
MLO	MAIN LUGS ONLY
MCCP	MAXIMUM OVERCURRENT PROTECTION
N	NEUTRAL
NAC	NOTIFICATION APPLIANCE CIRCUIT
N/A	NOT APPLICABLE
NC	NORMALLY CLOSED
NEC	NATIONAL ELECTRICAL CODE
NEMA	NATIONAL ELECTRICAL MANUFACTURERS ASSOCIATION
NEX	REPLACE EXISTING WIRING DEVICE AND FACEPLATE WITH NEW, BACK BOX AND CONDUIT SHALL REMAIN.
NL	NIGHT LIGHT
NO	NORMALLY OPEN
NTS	NOT TO SCALE
OC	ON CENTER
OFCI	OWNER FURNISHED, CONTRACTOR INSTALLED
OFOI	OWNER FURNISHED, OWNER INSTALLED
Ø	PHASE
PB	PULL BOX, PANIC BUTTON, PUSH BUTTON
PE	PHOTO EYE
PNL	PANEL
POE	POWER OVER ETHERNET
PTZ	PAN, TILT, ZOOM
RD	LOCATION OF RELOCATED DEVICE / EQUIPMENT
REX	REMOVE EXISTING DEVICE / EQUIPMENT
RF	RADIO FREQUENCY
RFI	REQUEST FOR INFORMATION
RR	REMOVE AND RELOCATE EXISTING DEVICE / EQUIPMENT
SPD	SURGE PROTECTION DEVICE
STD	STANDARD
SW	SWITCH
TM	THERMAL MAGNETIC CIRCUIT BREAKER
TBD	TO BE DETERMINED
TV	TELEVISION / MONITOR OUTLET
TVSS	TRANSIENT VOLTAGE SURGE SUPPRESSOR
TYP	TYPICAL

UH	UNIT HEATER
UG	UNDERGROUND
UL	UNDERWRITERS LABORATORIES
UPS	UNINTERRUPTIBLE POWER SUPPLY
UON	UNLESS OTHERWISE NOTED
USB	UNIVERSAL SERIAL BUS
V	VOLTS, VOLTAGE
VA	VOLT-AMPERE
VFD	VARIABLE FREQUENCY DRIVE
W	WATT, WIRE
WAN	WIDE AREA NETWORK
WAP	WIRELESS ACCESS POINT
WI-FI	WIRELESS FIDELITY
W	WITH
W/O	WITHOUT
WP	WEATHERPROOF
XFMR	TRANSFORMER
Y	WYE
+72	MOUNTING UNITS EXPRESSED IN INCHES TO CENTERLINE ABOVE FINISHED FLOOR OR GRADE.
1P	ONE POLE
2P	TWO POLE
3P	THREE POLE
4P	FOUR POLE

General Electrical Notes

- ALL LIGHTING BRANCH CIRCUITS SHALL BE #10, 1#10G IN 3/4" CONDUIT, UON.
- ALL 20-AMP RECEPTACLE AND HARDWIRED BRANCH CIRCUITS SHALL BE #12, 1#12G IN 3/4" CONDUIT, UON.
- ALL EXIT SIGNS SHALL BE WIRED TO THE LOCAL LIGHTING BRANCH CIRCUIT AHEAD OF ALL SWITCHING.

Drawing Symbol Variables

3	THREE WAY SWITCH.
4	FOUR WAY SWITCH.
#J	QUANTITY OF JACKS AND HORIZONTAL CABLES.
AV	MOUNTED ADJACENT TO SMARTBOARD.
C	MOUNTED HORIZONTALLY AT 4" ABOVE COUNTERTOP.
CL	CLOCK.
DR	DUAL RELAY.
E	RED EMERGENCY SWITCH.
EL	ELEVATOR RECALL.
LF	LOW FREQUENCY.
LV	LOW VOLTAGE SWITCH.
M	MOTOR RATED TOGGLE SWITCH.
O	INTEGRAL OCCUPANCY SENSOR.
P	ADA PHONE, VERIFY HEIGHT WITH ARCHITECT / OWNER.
TK	MOUNTED IN TOE KICK OF CASEWORK.
TV	MOUNTED ADJACENT TO TV AT 60" AFF, UON.
V	VANDAL RESISTANT.
WG	WIREGUARD.
WP	WEATHERPROOF SWITCH.

Raceways

	CONDUIT AND/OR CONDUCTORS INSTALLED ABOVE GRADE, CONCEALED IN WALL OR CEILING SPACE.
	CONDUIT AND/OR CONDUCTORS INSTALLED BELOW GRADE, BELOW SLAB.
	CONDUIT TURNED DOWN.
	CONDUIT TURNED UP.
	CONDUIT STUBBED AND CAPPED.
	CONDUIT DIRECT CONNECTION TO EQUIPMENT.
	FLEXIBLE CONNECTION TO EQUIPMENT.
	CONDUIT / WIRING CONTINUATION.
	HOMERUN TO PANELBOARD.
	CABLE TRAY. SIZE AND TYPE AS INDICATED ON DRAWINGS.

Power Distribution

	DUPLEX RECEPTACLE, MOUNTED AT 18" AFF, UON.
	SIMPLEX RECEPTACLE, MOUNTED AT 18" AFF, UON.
	QUADPLEX RECEPTACLE, MOUNTED AT 18" AFF, UON.
	GFCI DUPLEX RECEPTACLE, MOUNTED AT 18" AFF, UON.
	GFCI QUADPLEX RECEPTACLE, MOUNTED AT 18" AFF, UON.
	TAMPERPROOF DUPLEX RECEPTACLE, MOUNTED AT 18" AFF, UON.
	SWITCHED DUPLEX RECEPTACLE, MOUNTED AT 18" AFF, UON.
	EMERGENCY DUPLEX RECEPTACLE, MOUNTED AT 18" AFF, UON.
	EMERGENCY DUPLEX GFCI RECEPTACLE, MOUNTED AT 18" AFF, UON.
	EMERGENCY QUADPLEX RECEPTACLE, MOUNTED AT 18" AFF, UON.
	NEMA SPECIAL RECEPTACLE, MOUNTED AT 18" AFF, UON. NEMA CONFIGURATION AS INDICATED.
	DUPLEX RECEPTACLE, MOUNTED ON CEILING.
	QUADPLEX RECEPTACLE, MOUNTED ON CEILING.
	DISCONNECT SWITCH.
	FUSED DISCONNECT SWITCH.
	ENCLOSED CIRCUIT BREAKER.
	COMBINATION STARTER.
	FLOORBOX COMBINATION POWER & DATA.
	FLOORBOX POWER.
	POKETHRU COMBINATION POWER & DATA.
	POKETHRU POWER.
	POWER POLE.
	PANELBOARD SURFACE MOUNT.
	PANELBOARD FLUSH MOUNT.
	MAIN DISTRIBUTION PANEL.
	MOTOR CONTROL CENTER (MCC).
	MOTOR CONTROL CENTER (MCC) TRANSITION.
	UTILITY CT METER.

Access Control & Security

	ACCESS CONTROL - DOOR CONTACT. PROVIDE 3/4" CONDUIT FROM DOOR FRAME TO ACCESSIBLE CEILING OR SECURITY JUNCTION BOX AS SHOWN ON THE DRAWINGS.
	ACCESS CONTROL - CARD READER. PROVIDE 3/4" CONDUIT FROM DOOR FRAME TO ACCESSIBLE CEILING OR SECURITY JUNCTION BOX AS SHOWN ON THE DRAWINGS.
	ACCESS CONTROL - ELECTRIC STRIKE. PROVIDE 3/4" CONDUIT FROM DOOR FRAME TO ACCESSIBLE CEILING OR SECURITY JUNCTION BOX AS SHOWN ON THE DRAWINGS.
	ACCESS CONTROL - KEY PAD. PROVIDE 3/4" CONDUIT FROM DOOR FRAME TO ACCESSIBLE CEILING OR SECURITY JUNCTION BOX AS SHOWN ON THE DRAWINGS.
	ACCESS CONTROL - MAGNETIC LOCK. PROVIDE 3/4" CONDUIT FROM DOOR FRAME TO ACCESSIBLE CEILING OR SECURITY JUNCTION BOX AS SHOWN ON THE DRAWINGS.
	ACCESS CONTROL - REQUEST TO EXIT. PROVIDE 3/4" CONDUIT FROM DOOR FRAME TO ACCESSIBLE CEILING OR SECURITY JUNCTION BOX AS SHOWN ON THE DRAWINGS.
	ACCESS CONTROL - SECURITY JUNCTION BOX. SIZED AS RECOMMENDED BY SECURITY SYSTEM MANUFACTURER.
	ACCESS CONTROL - CAMERA / INTERCOM.
	ACCESS CONTROL - PANIC BUTTON.
	SECURITY CAMERA - CEILING MOUNTED. PROVIDE ONE (1) CAT6.
	SECURITY CAMERA - WALL MOUNTED. PROVIDE ONE (1) CAT6.
	360° SECURITY CAMERA - CEILING MOUNTED. PROVIDE ONE (1) CAT6.
	INTRUSION SENSOR - CEILING MOUNTED.
	INTRUSION SENSOR - WALL MOUNTED.

Lighting

	LUMINAIRE, SURFACE OR RECESS MOUNTED AS INDICATED ON THE DRAWINGS.
	LUMINAIRE WITH MULTILEVEL SWITCHING, SURFACE OR RECESS MOUNTED AS INDICATED ON THE DRAWINGS.
	LUMINAIRE WIRED TO EMERGENCY CIRCUIT, SURFACE OR RECESS MOUNTED AS INDICATED ON THE DRAWINGS.
	LUMINAIRE WIRED TO NIGHTLIGHT CIRCUIT, SURFACE OR RECESS MOUNTED AS INDICATED ON THE DRAWINGS.
	DOWNLIGHT LUMINAIRE, SURFACE, RECESS, OR PENDANT MOUNTED AS INDICATED ON THE DRAWINGS.
	DOWNLIGHT LUMINAIRE WIRED TO EMERGENCY CIRCUIT, SURFACE OR RECESS MOUNTED AS INDICATED ON THE DRAWINGS.
	DOWNLIGHT LUMINAIRE WIRED TO NIGHTLIGHT CIRCUIT, SURFACE OR RECESS MOUNTED AS INDICATED ON THE DRAWINGS.
	UNDERCABINET LUMINAIRE.
	EMERGENCY BATTERY PACK LUMINAIRE, WALL OR CEILING MOUNTED
	LUMINAIRE, PENDANT MOUNTED.
	LUMINAIRE WITH MULTILEVEL SWITCHING, PENDANT MOUNTED.
	LUMINAIRE WIRED TO EMERGENCY CIRCUIT, PENDANT MOUNTED.
	LINEAR WALL MOUNTED LUMINAIRE.
	BOLLARD LUMINAIRE.
	BOLLARD LUMINAIRE WIRED TO NIGHTLIGHT CIRCUIT.
	SITE LUMINAIRE POLE MOUNTED. NUMBER OF HEADS AS SHOWN.
	TRACK LUMINAIRE.
	SPOT LUMINAIRE.
	LUMINAIRE WALL MOUNTED.
	EXIT SIGN, WALL OR CEILING MOUNTED, SINGLE FACE WITH DIRECTIONAL CHEVRONS AS SHOWN ON DRAWINGS.
	EXIT SIGN, WALL OR CEILING MOUNTED, DOUBLE FACE WITH DIRECTIONAL CHEVRONS AS SHOWN ON DRAWINGS.

Switches

	SINGLE POLE SWITCH - MOUNTED AT 42" AFF, UON.
	MULTILEVEL SWITCH - MOUNTED AT 42" AFF, UON.
	LOW VOLTAGE 0-10 VOLT DIMMING SWITCH - MOUNTED AT 42" AFF, UON.
	OCCUPANCY SENSOR - CEILING OR WALL MOUNTED.
	OCCUPANCY SENSOR POWER PACK.
	PHOTOCELL - CEILING OR WALL MOUNTED.
	ADA DOOR PUSHPLATE.
	EMERGENCY STOP SWITCH, MUSHROOM HEAD.
	PUSHBUTTON, SINGLE.
	PUSHBUTTON, DOUBLE.

Miscellaneous

	JUNCTION BOX (ROUND, SQUARE, OCTAGONAL).
	THERMOSTAT.
	RELAY.
	CORD REEL.
	MOTOR / EXHAUST FAN.
	CEILING FAN.
	UTILITY POLE.
	WEATHERHEAD.
	GROUND ROD.
	GROUND ROD WITH TEST WELL.
	SURFACE RACEWAY / WIREMOLD.
	FIRE RATED BACKBOARD.



Rev	Description

ELECTRICAL
ABBREVIATIONS AND
SYMBOL LEGEND

Design DML

Drawn JCL

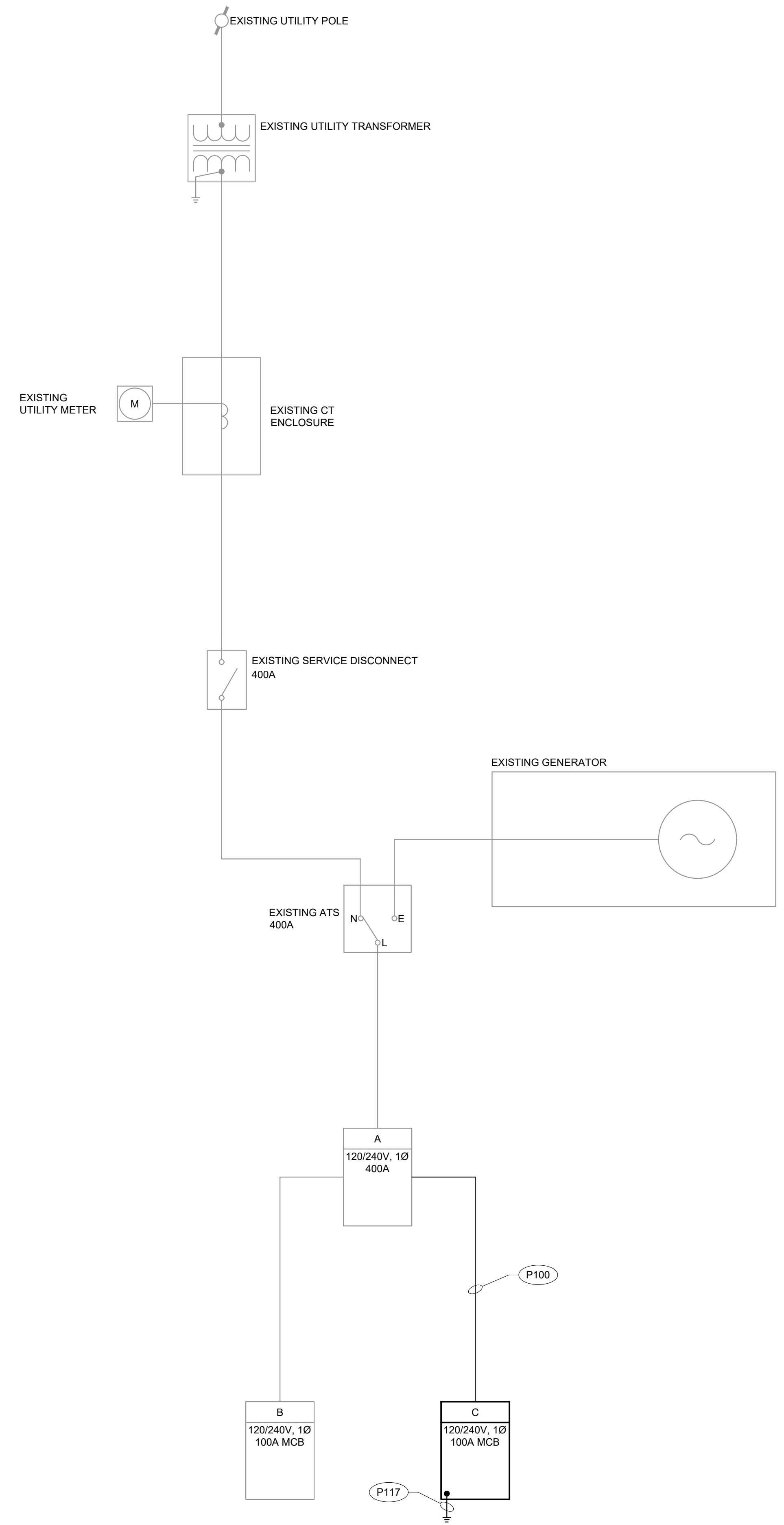
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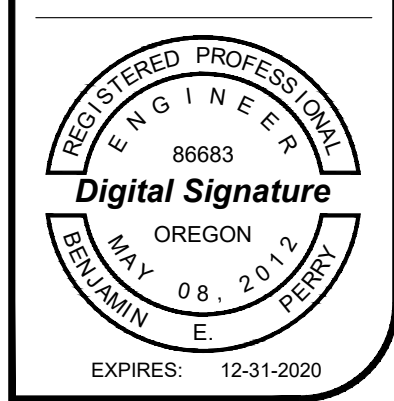
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1 ONE-LINE DIAGRAM
SCALE: NONE



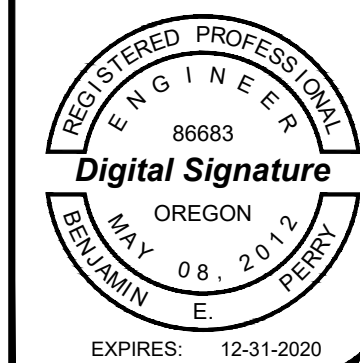
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POWER CONDUIT / CONDUCTOR SCHEDULE											
CONDUIT ID NO.	CONDUIT		CONDUCTORS PER CONDUIT					FROM	TO	DESCRIPTION	SHEET KEY NOTE
	QUANTITY	SIZE	UNGROUND	GROUND	GROUNDING	CABLE	SPARE				
P100	1	2.0 INCH	2 - #2	1 - #2	1 - #8	-	-	PANEL A	PANEL C	PULL NEW FEEDER CONDUCTORS IN EXISTING CONDUIT.	-
P101	1	2.0 INCH	2 - #10	2 - #10	1 - #10	-	-	PANEL C	HANDHOLD HH-01	PULL NEW CONDUCTORS IN EXISTING CONDUIT.	-
P102	1	0.75 INCH	1 - #10	1 - #10	1 - #10	-	-	HANDHOLE HH-01	NORTH TANK MIXER DISCONNECT	-	-
P103	1	0.75 INCH	1 - #10	1 - #10	1 - #10	-	-	NORTH TANK MIXER DISCONNECT	NORTH TANK PAX CONTROL CENTER	-	-
P104	1	0.75 INCH	1 - #10	1 - #10	1 - #10	-	-	NORTH TANK PAX CONTROL CENTER	CENTRAL TANK POWER JBOX #1	-	-
P105	1	0.75 INCH	1 - #10	1 - #10	1 - #10	-	-	CENTRAL TANK POWER JBOX #1	NORTH TANK POWER JBOX #1	-	-
P106	1	0.75 INCH	1 - #10	1 - #10	1 - #10	-	-	HANDHOLE HH-01	CENTRAL TANK MIXER DISCONNECT	-	-
P107	1	0.75 INCH	1 - #10	1 - #10	1 - #10	-	-	CENTRAL TANK MIXER DISCONNECT	CENTRAL TANK PAX CONTROL CENTER	-	-
P108	1	0.75 INCH	1 - #10	1 - #10	1 - #10	-	-	CENTRAL TANK PAX CONTROL CENTER	CENTRAL TANK POWER JBOX #1	-	-
P109	1	0.75 INCH	1 - #10	1 - #10	1 - #10	-	-	CENTRAL TANK POWER JBOX #1	CENTRAL TANK POWER JBOX #2	-	-
P110	1	0.75 INCH	1 - #10	1 - #10	1 - #10	-	-	PANEL C	SOUTH TANK MIXER DISCONNECT	-	-
P111	1	0.75 INCH	1 - #10	1 - #10	1 - #10	-	-	SOUTH TANK MIXER DISCONNECT	SOUTH TANK PAX CONTROL CENTER	-	-
P112	1	0.75 INCH	1 - #10	1 - #10	1 - #10	-	-	SOUTH TANK PAX CONTROL CENTER	SOUTH TANK POWER JBOX #1	-	-
P113	1	1.0 INCH	1 - #10	1 - #10	1 - #10	-	-	SOUTH TANK POWER JBOX #1	SOUTH TANK POWER JBOX #2	-	-
P114	1	1.0 INCH	-	-	-	1 - MSC	-	NORTH TANK POWER JBOX #1	NORTH TANK MIXER	ROUTE MANUFACTURER SUPPLIED CABLE IN LIQUID TIGHT FLEXIBLE CONDUIT. PROVIDE SLACK BETWEEN CONDUIT STRAPS SO THE CONDUIT AND CABLE CAN EXPAND AND CONTRACT WITH TANK ROOF. CONDUIT SHALL PENETRATE VENT AT CENTER OF TANK ROOF. ROUTE MSC DOWN TO MIXER FROM THERE. PROVIDE CORD GRIP AND PENETRATION FITTINGS. LIQUID TIGHT FLEXIBLE CONDUIT LAYOUT SHALL BE APPROVED BY THE OWNER PRIOR TO INSTALLATION. ASSUME 60' OF CONDUIT.	-
P115	1	1.0 INCH	-	-	-	1 - MSC	-	CENTRAL TANK POWER JBOX #2	CENTRAL TANK MIXER	ROUTE MANUFACTURER SUPPLIED CABLE IN LIQUID TIGHT FLEXIBLE CONDUIT. PROVIDE SLACK BETWEEN CONDUIT STRAPS SO THE CONDUIT AND CABLE CAN EXPAND AND CONTRACT WITH TANK ROOF. CONDUIT SHALL PENETRATE VENT AT CENTER OF TANK ROOF. ROUTE MSC DOWN TO MIXER FROM THERE. PROVIDE CORD GRIP AND PENETRATION FITTINGS. LIQUID TIGHT FLEXIBLE CONDUIT LAYOUT SHALL BE APPROVED BY THE OWNER PRIOR TO INSTALLATION. ASSUME 60' OF CONDUIT.	-
P116	1	1.0 INCH	-	-	-	1 - MSC	-	SOUTH TANK POWER JBOX #2	SOUTH TANK MIXER	ROUTE MANUFACTURER SUPPLIED CABLE IN LIQUID TIGHT FLEXIBLE CONDUIT. PROVIDE SLACK BETWEEN CONDUIT STRAPS SO THE CONDUIT AND CABLE CAN EXPAND AND CONTRACT WITH TANK ROOF. CONDUIT SHALL PENETRATE VENT AT CENTER OF TANK ROOF. ROUTE MSC DOWN TO MIXER FROM THERE. PROVIDE CORD GRIP AND PENETRATION FITTINGS. LIQUID TIGHT FLEXIBLE CONDUIT LAYOUT SHALL BE APPROVED BY THE OWNER PRIOR TO INSTALLATION. ASSUME 60' OF CONDUIT.	-
P117	-	0.75 INCH	-	-	1 - #8	-	-	PANEL C	GROUNDING ELECTRODE SYSTEM	GROUNDING ELECTRODE CONDUCTOR	-

Notes:

CONTROL CONDUIT / CONDUCTOR SCHEDULE											
CONDUIT ID NO.	CONDUIT		CONDUCTORS PER CONDUIT					FROM	TO	DESCRIPTION	SHEET KEY NOTE
	QUANTITY	SIZE	UNGROUND	GROUND	GROUNDING	CABLE	SPARE				
C101	1	1.25 INCH	8 - #14	-	1 - #14	-	-	REPEATER ENCLOSURE	CENTRAL TANK CONTROL JBOX #2	I/O CONDUCTORS SHALL BE TERMINATED IN REPEATER ENCLOSURE AS DIRECTED BY OWNER. NORTH & CENTRAL PAX RUN, ON, FAULT SIGNALS.	-
C102	1	0.75 INCH	4 - #14	-	1 - #14	-	-	CENTRAL TANK CONTROL JBOX #2	NORTH TANK PAX CONTROL CENTER	TERMINATE I/O CONDUCTORS PER MANUFACTURERS INSTRUCTIONS. NORTH PAX RUN, ON, FAULT SIGNALS.	-
C103	1	0.75 INCH	4 - #14	-	1 - #14	-	-	CENTRAL TANK CONTROL JBOX #2	CENTRAL TANK PAX CONTROL CENTER	TERMINATE I/O CONDUCTORS PER MANUFACTURERS INSTRUCTIONS. CENTRAL PAX RUN, ON, FAULT SIGNALS.	-
C104	1	1.25 INCH	4 - #14	-	1 - #14	-	-	REPEATER ENCLOSURE	SOUTH TANK CONTROL JBOX #2	I/O CONDUCTORS SHALL BE TERMINATED IN REPEATER ENCLOSURE AS DIRECTED BY OWNER. SOUTH PAX RUN, ON, FAULT SIGNALS.	-
C105	1	0.75 INCH	4 - #14	-	1 - #14	-	-	SOUTH TANK CONTROL JBOX #2	SOUTH TANK PAX CONTROL CENTER	TERMINATE I/O CONDUCTORS PER MANUFACTURERS INSTRUCTIONS. SOUTH PAX RUN, ON, FAULT SIGNALS.	-

Notes:

CITY OF ALBANY
VALLEY VIEW RESERVOIR MIXER IMPROVEMENTS PROJECT
 3240 VALLEY VIEW DRIVE
 ALBANY, OREGON 97321

Rev	Description

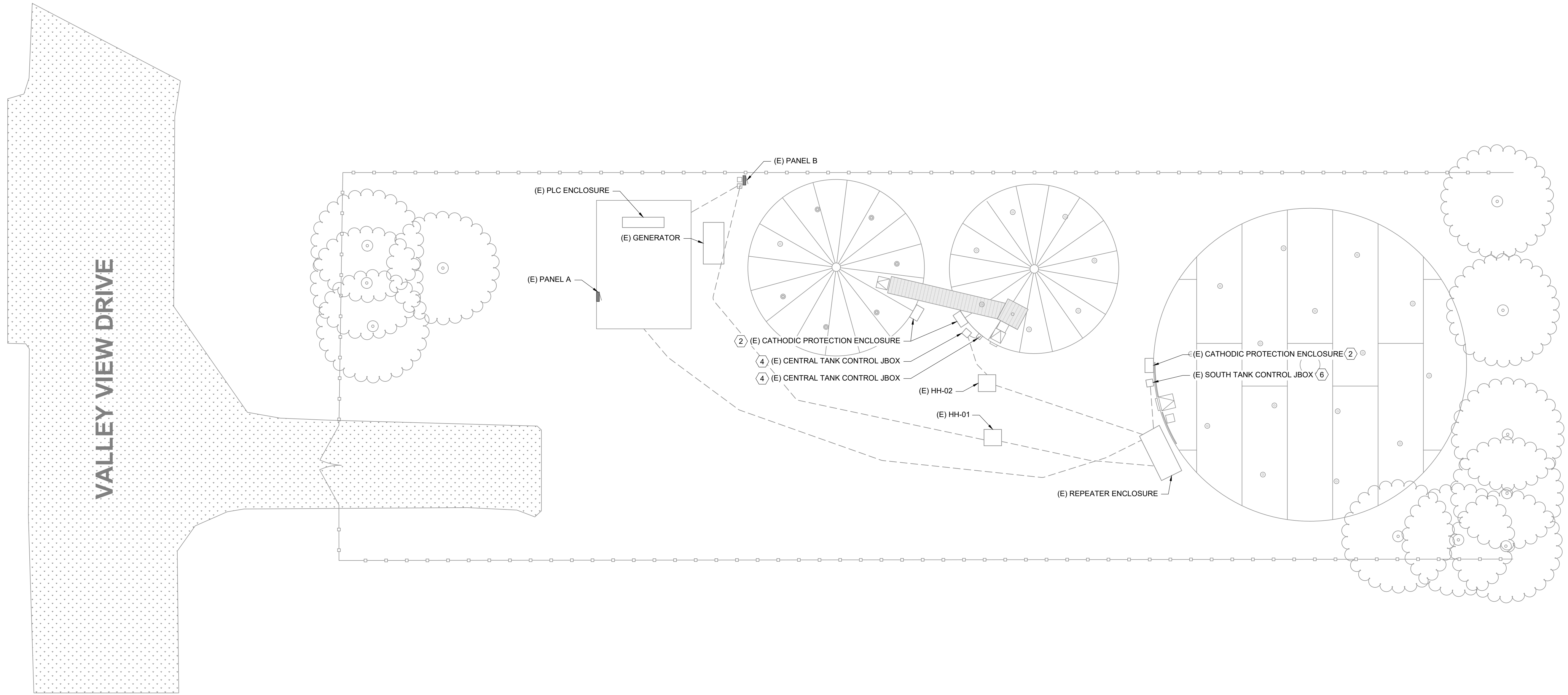
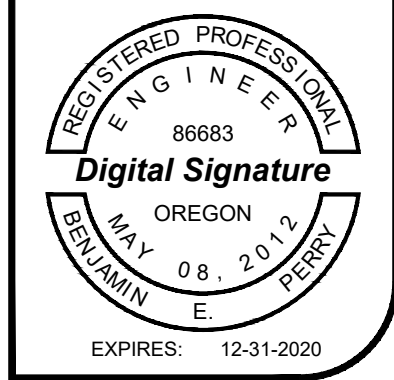
CONDUIT & CONDUCTOR SCHEDULES

Design DML
 Drawn JCL
 Checked BEP
 Date 8/05/2019
 Proj. No. 7021801
 Drawing No.

E0.15

- SHEET KEY NOTES**
1. NOT USED.
 2. EXISTING CATHODIC PROTECTION ENCLOSURE AND ALL ASSOCIATED CONDUITS AND PENETRATIONS SHALL BE PROTECTED DURING CONSTRUCTION. CATHODIC PROTECTION CONDUITS AND PENETRATIONS NOT SHOWN FOR CLARITY.
 3. NOT USED.
 4. EXISTING CENTRAL TANK CONTROL JUNCTION BOX AND ALL ASSOCIATED CONDUIT AND WIRING SHALL BE PROTECTED.
 5. NOT USED.
 6. EXISTING SOUTH TANK CONTROL JUNCTION BOX AND ALL ASSOCIATED CONDUIT AND WIRING SHALL BE PROTECTED.

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1 EXISTING ELECTRICAL SITE PLAN
 SCALE: 1" = 10'

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Rev	Description

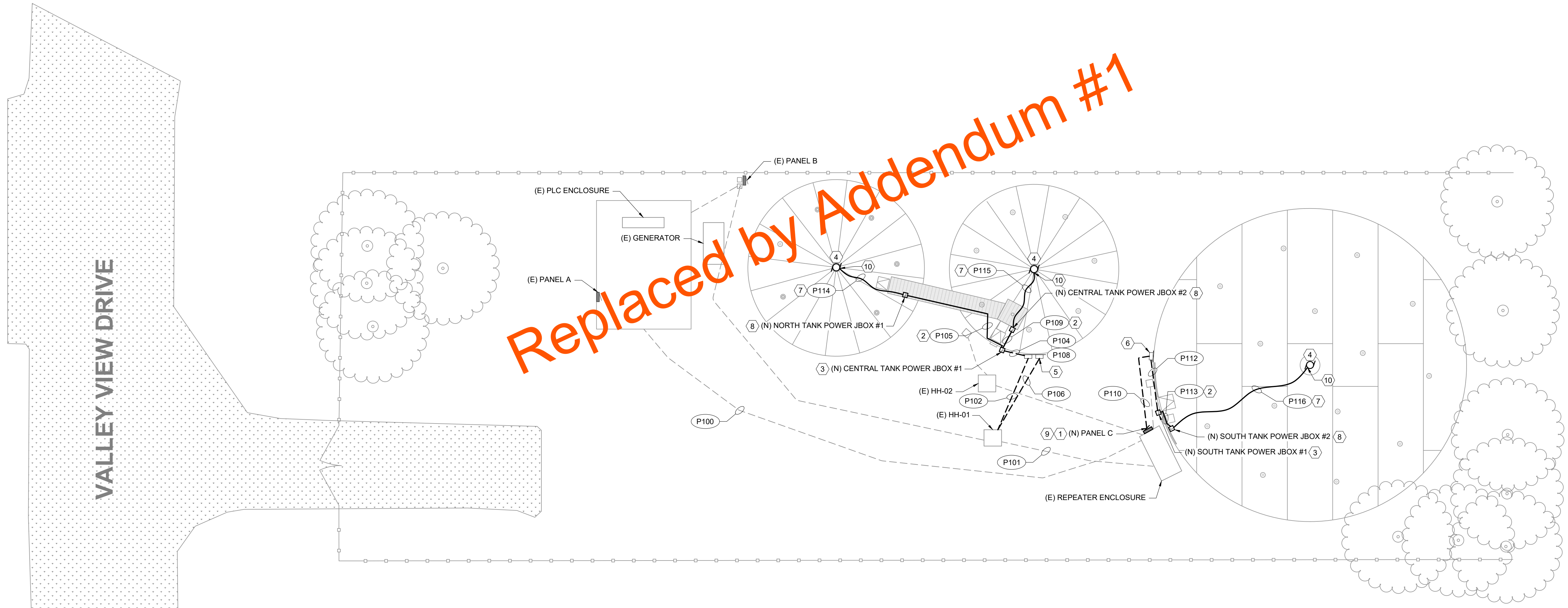
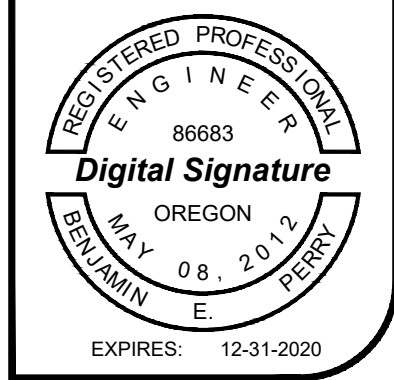
EXISTING ELECTRICAL SITE PLAN

Design DML
 Drawn JCL
 Checked BEP
 Date 8/05/2019
 Proj. No. 7021801
 Drawing No.

E1.00

- SHEET KEY NOTES**
1. NEW PANEL C SHALL BE MOUNTED TO THE EXTERIOR OF THE REPEATER ENCLOSURE.
 2. ROUTE NEW POWER CONDUIT UP RIGHT SIDE OF LADDER ADJACENT TO EXISTING CONDUITS. HEIGHT OF TANKS IS APPROXIMATELY 48'-3".
 3. NEW 6" x 6" x 4" GENERAL ENCLOSURE MOUNTED AT 18" A.F.G.
 4. NEW JET MIXER PWM100 INSTALLED IN TANK.
 5. NORTH AND CENTER TANK PUMP CONTROL PANEL STAND. SEE DETAIL 2 ON SHEET E1.03 FOR ADDITIONAL INFORMATION.
 6. SOUTH TANK PUMP CONTROL PANEL STAND. SEE DETAIL 3 ON SHEET E1.03 FOR ADDITIONAL INFORMATION.
 7. CONTRACTOR SHALL INSTALL MANUFACTURER SUPPLIED CABLE (MSC) ACROSS ROOF OF TANK INSIDE LIQUID TIGHT FLEXIBLE CONDUIT. CONTRACTOR SHALL ROUTE CONDUIT WITH SLACK AS TO ALLOW MOVEMENT OF THE CONDUIT AND CABLE WITH THE EXPANSION AND CONTRACTION OF THE ROOF.
 8. JUNCTION BOX SHALL BE MOUNTED TO THE CATWALK SIDING USING 1/8" STRUT CHANNEL AND MOUNTING HARDWARE. SEE SHEET E1.05 FOR JUNCTION BOX DETAILS.
 9. CONTRACTOR SHALL DRIVE A NEW GROUND ROD AT REPEATER ENCLOSURE FOR GROUNDING ELECTRODE SYSTEM. GROUND ROD SHALL BE SIZED PER NEC.
 10. CONTRACTOR SHALL PENETRATE EXISTING VENT AND ROUTE NEW MIXER MSC DOWN VENT OPENING. PROVIDE CORD GRIP, AND CONDUIT FITTINGS AT NEW PENETRATION.

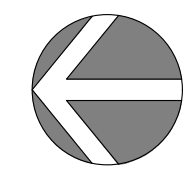
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VALLEY VIEW DRIVE

1 ELECTRICAL POWER SITE PLAN
 SCALE: 1" = 10'



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 VALLEY VIEW RESERVOIR MIXER
 IMPROVEMENTS PROJECT
 3240 VALLEY VIEW DRIVE
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Rev	Description

ELECTRICAL POWER SITE PLAN

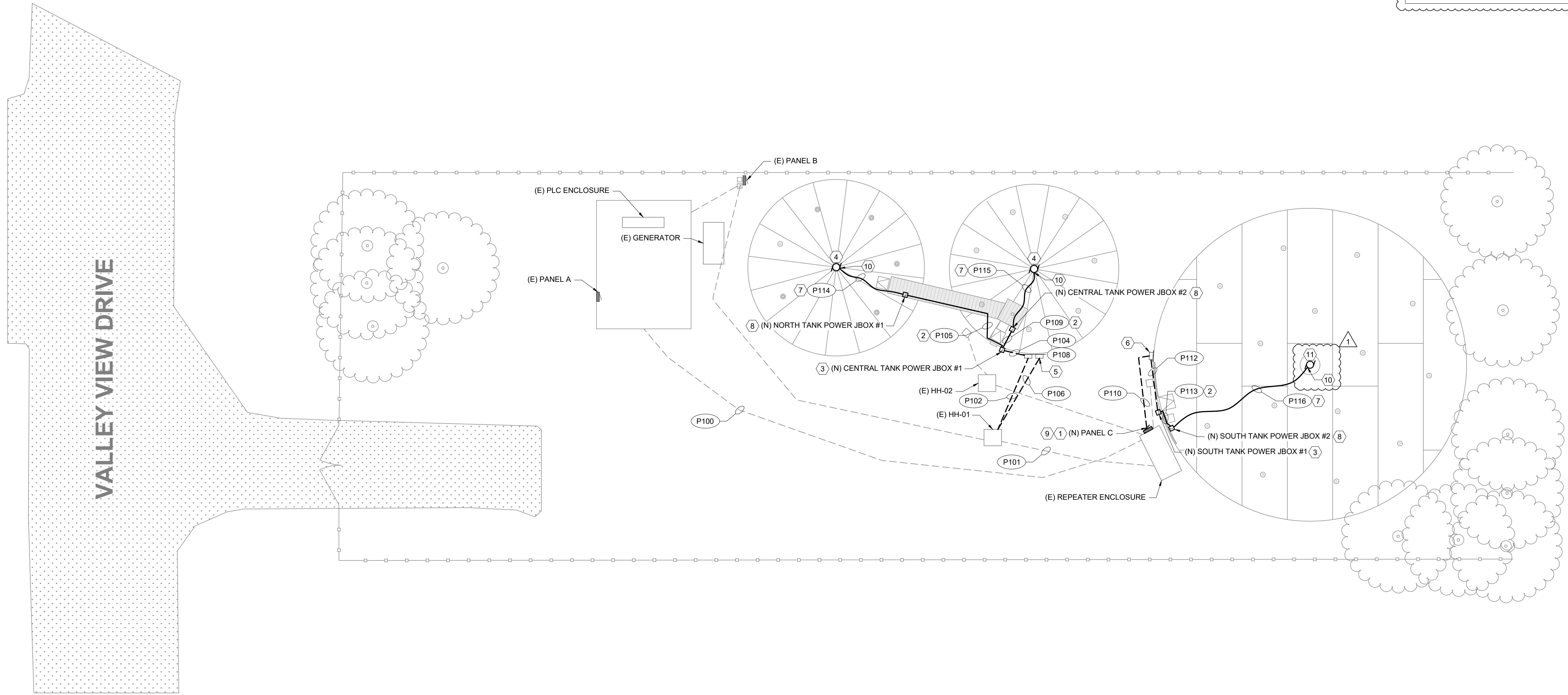
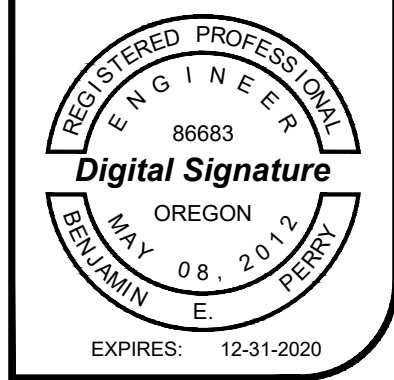
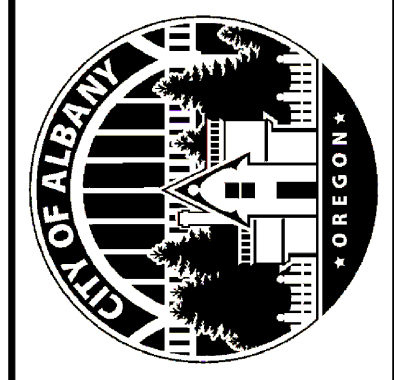
Design DML
 Drawn JCL
 Checked BEP
 Date 8/05/2019
 Proj. No. 7021801
 Drawing No.

E1.01

SHEET KEY NOTES

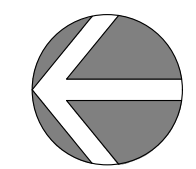
1. NEW PANEL C SHALL BE MOUNTED TO THE EXTERIOR OF THE REPEATER ENCLOSURE.
2. ROUTE NEW POWER CONDUIT UP RIGHT SIDE OF LADDER ADJACENT TO EXISTING CONDUITS. HEIGHT OF TANKS IS APPROXIMATELY 48'-3".
3. NEW 6" x 6" x 4" GENERAL ENCLOSURE MOUNTED AT 18" A.F.G.
4. NEW JET MIXER PWM100 INSTALLED IN TANK.
5. NORTH AND CENTER TANK PUMP CONTROL PANEL STAND. SEE DETAIL 2 ON SHEET E1.03 FOR ADDITIONAL INFORMATION.
6. SOUTH TANK PUMP CONTROL PANEL STAND. SEE DETAIL 3 ON SHEET E1.03 FOR ADDITIONAL INFORMATION.
7. CONTRACTOR SHALL INSTALL MANUFACTURER SUPPLIED CABLE (MSC) ACROSS ROOF OF TANK INSIDE LIQUID TIGHT FLEXIBLE CONDUIT. CONTRACTOR SHALL ROUTE CONDUIT WITH SLACK AS TO ALLOW MOVEMENT OF THE CONDUIT AND CABLE WITH THE EXPANSION AND CONTRACTION OF THE ROOF.
8. JUNCTION BOX SHALL BE MOUNTED TO THE CATWALK SIDING USING 1/8" STRUT CHANNEL AND MOUNTING HARDWARE. SEE SHEET E1.05 FOR JUNCTION BOX DETAILS.
9. CONTRACTOR SHALL DRIVE A NEW GROUND ROD AT REPEATER ENCLOSURE FOR GROUNDING ELECTRODE SYSTEM. GROUND ROD SHALL BE SIZED PER NEC.
10. CONTRACTOR SHALL PENETRATE EXISTING VENT AND ROUTE NEW MIXER MSC DOWN VENT OPENING. PROVIDE CORD GRIP, AND CONDUIT FITTINGS AT NEW PENETRATION.
11. NEW JET MIXER PWM150 INSTALLED IN TANK.

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1 ELECTRICAL POWER SITE PLAN

SCALE: 1" = 10'



CITY OF ALBANY
 VALLEY VIEW RESERVOIR MIXER
 IMPROVEMENTS PROJECT
 3240 VALLEY VIEW DRIVE
 ALBANY, OREGON 97321

Rev	Description
1	Revision 1 - 08/28/2019

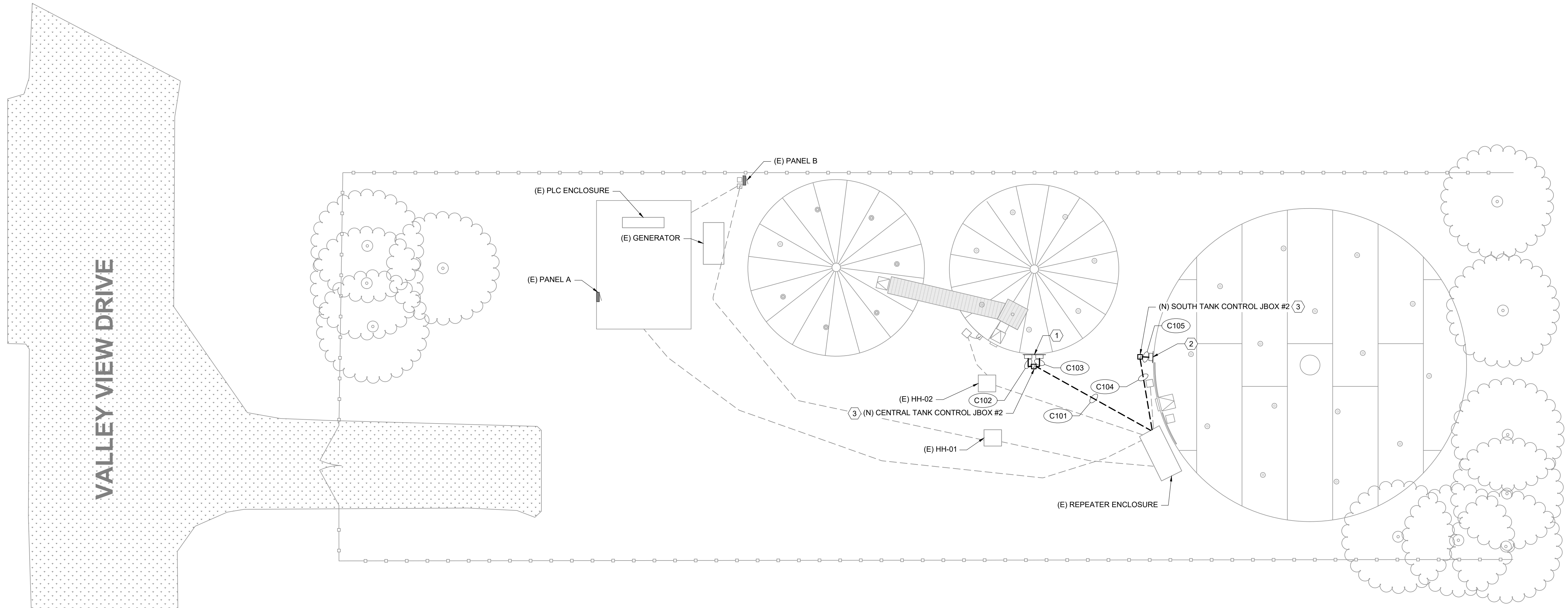
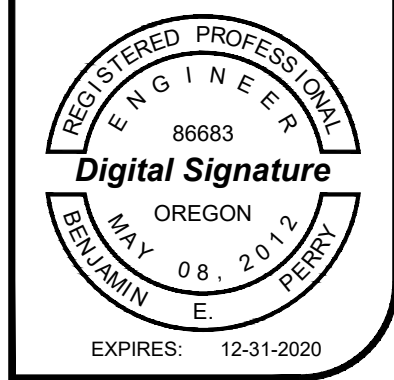
ELECTRICAL POWER SITE PLAN

Design: DML
 Drawn: JCL
 Checked: BEP
 Date: 8/05/2019
 Proj. No.: 7021801
 Drawing No.:

E1.01

- SHEET KEY NOTES**
1. NORTH AND CENTRAL TANK PUMP CONTROL PANEL STAND. SEE DETAIL 1 ON SHEET E1.03 FOR ADDITIONAL INFORMATION.
 2. SOUTH TANK PUMP CONTROL PANEL STAND. SEE DETAIL 2 ON SHEET E1.03 FOR ADDITIONAL INFORMATION.
 3. MEDIUM IN-GROUND BOX (16135.L01).

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1 ELECTRICAL CONTROL SITE PLAN
 SCALE: 1" = 10'

CITY OF ALBANY
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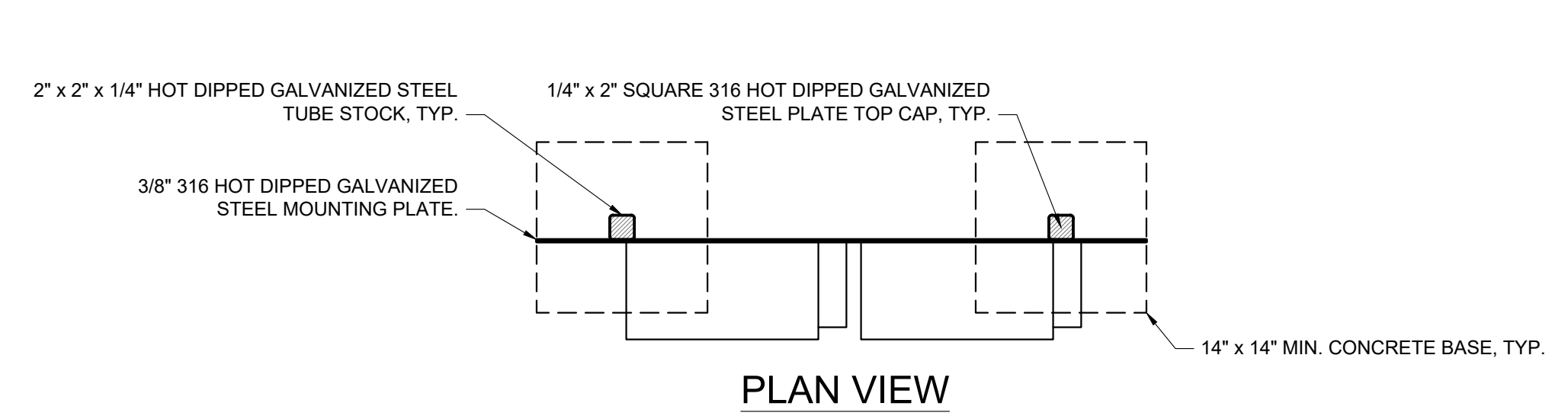
Rev	Description

ELECTRICAL CONTROL SITE PLAN

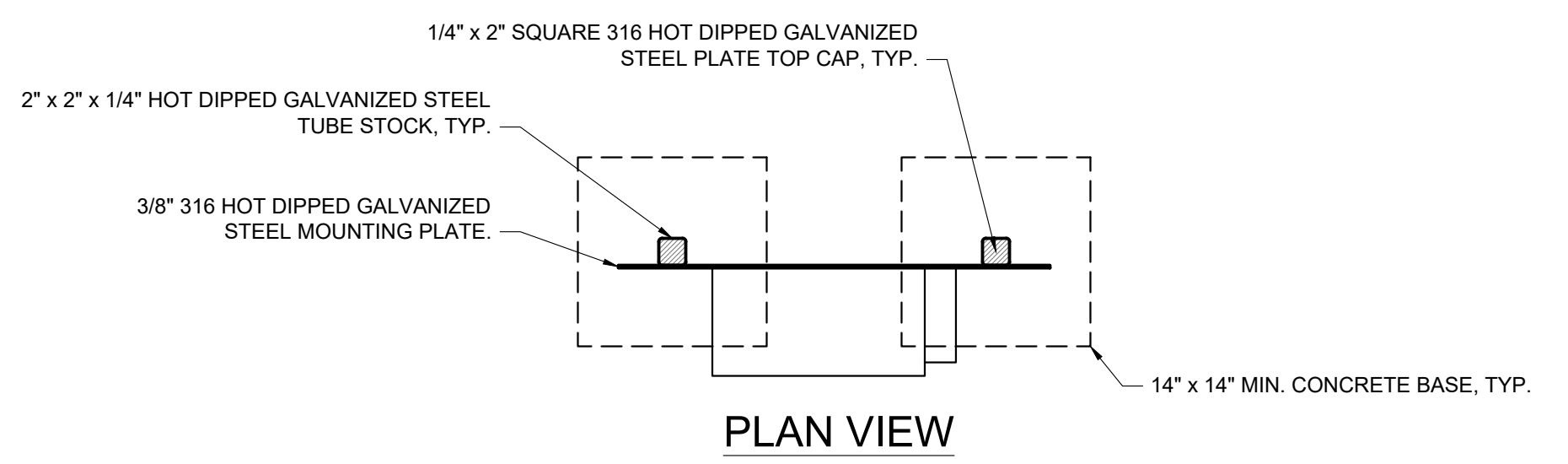
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 Date: 8/05/2019
 Proj. No.: 7021801
 Drawing No.:

E1.02

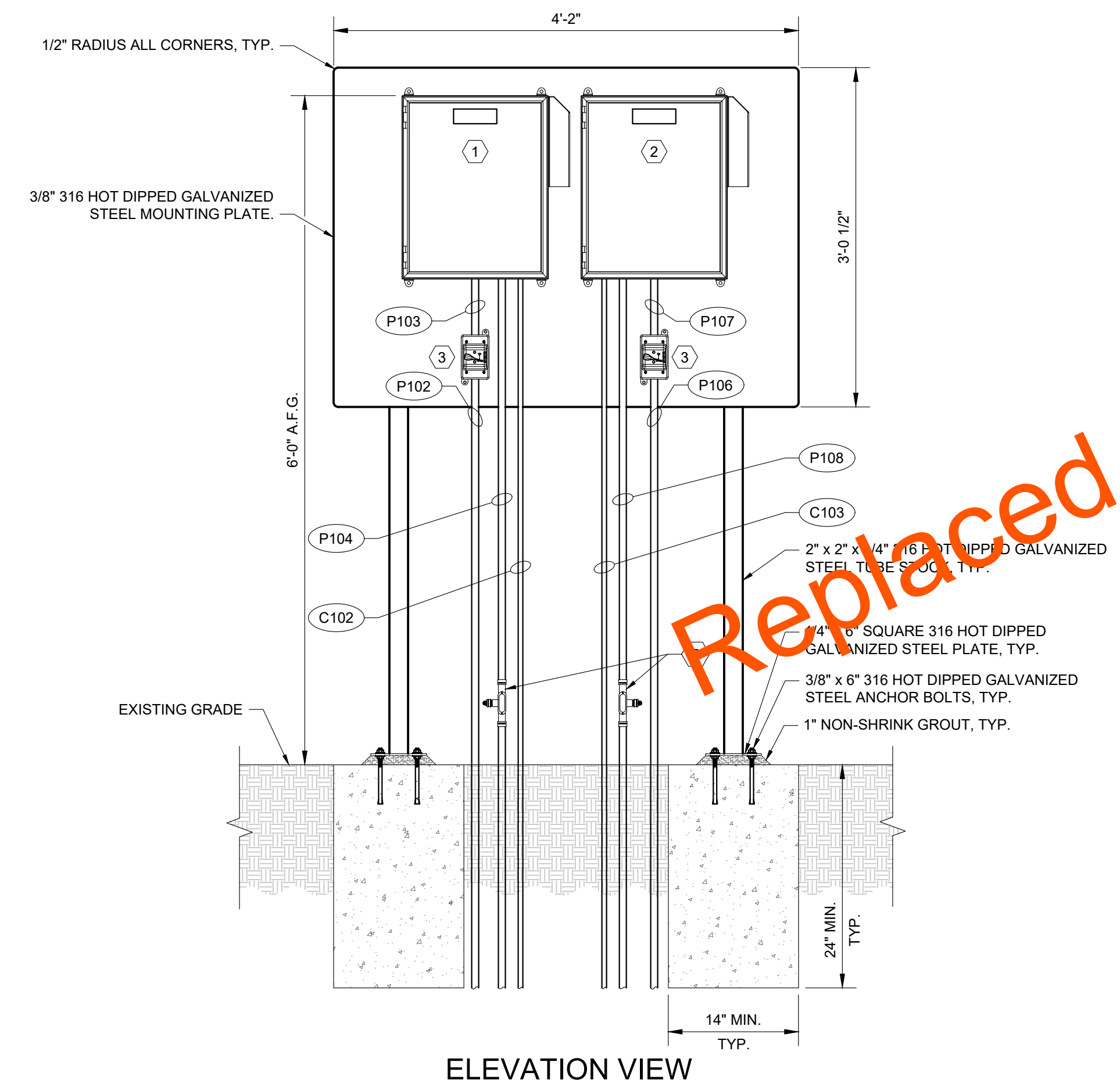
- SHEET KEY NOTES**
1. NORTH TANK PAX CONTROL CENTER.
 2. CENTRAL TANK PAX CONTROL CENTER.
 3. DISCONNECT SWITCH.
 4. SOUTH TANK PAX CONTROL CENTER.
 5. SEE DETAIL 1 ON SHEET E1.04 FOR CONDUIT DRAIN DETAIL.



PLAN VIEW

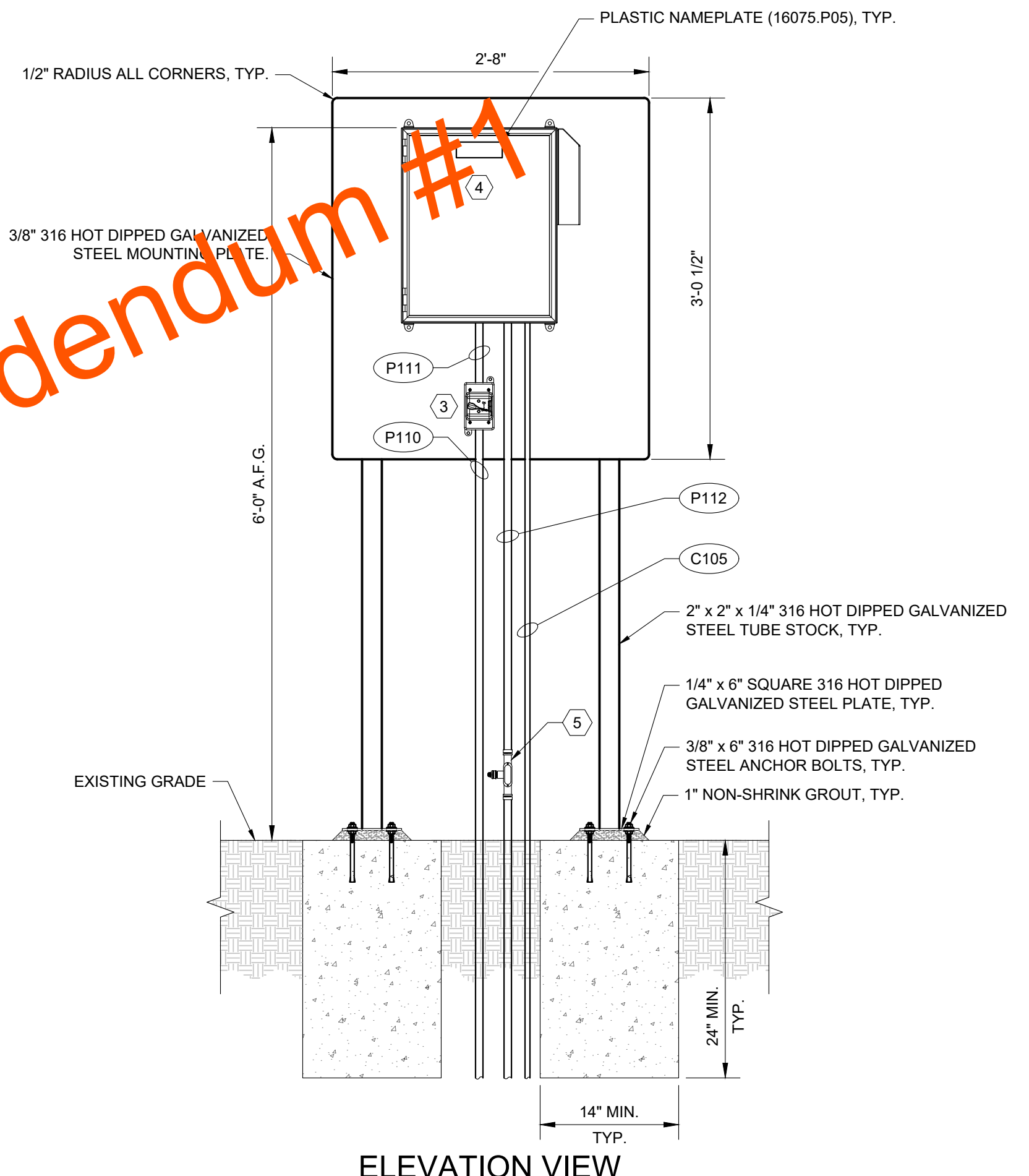


PLAN VIEW



ELEVATION VIEW

1 NORTH & CENTRAL PUMP CONTROL PANEL STAND DETAIL
SCALE: NTS

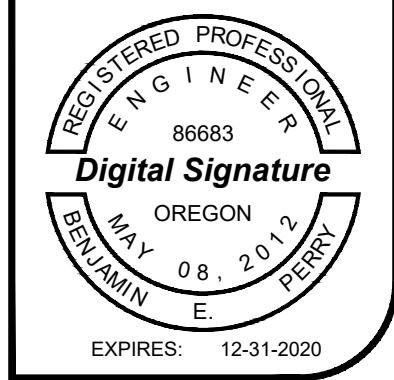


ELEVATION VIEW

2 SOUTH PUMP CONTROL PANEL STAND DETAIL
SCALE: NTS

Replaced by Addendum #1

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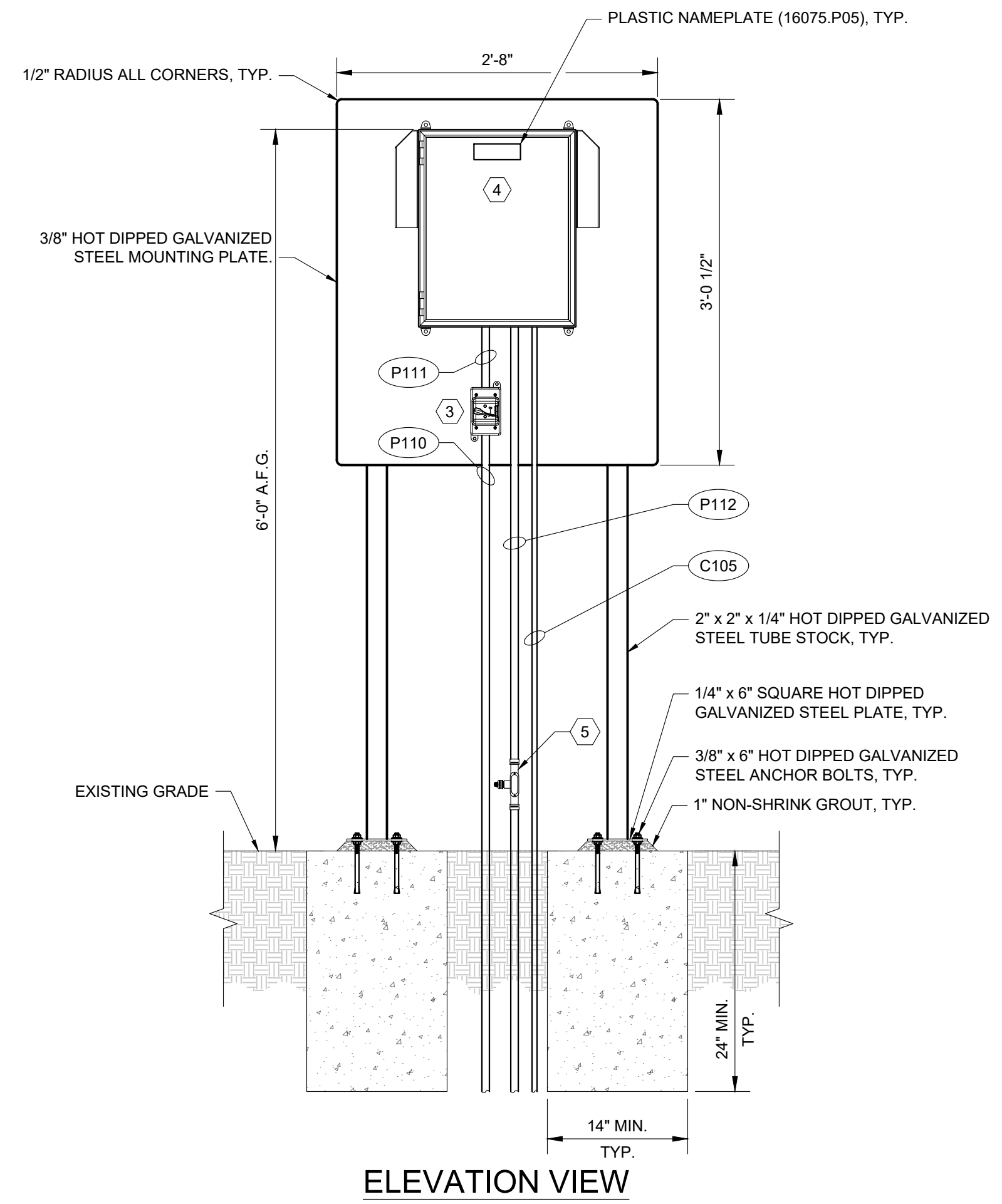
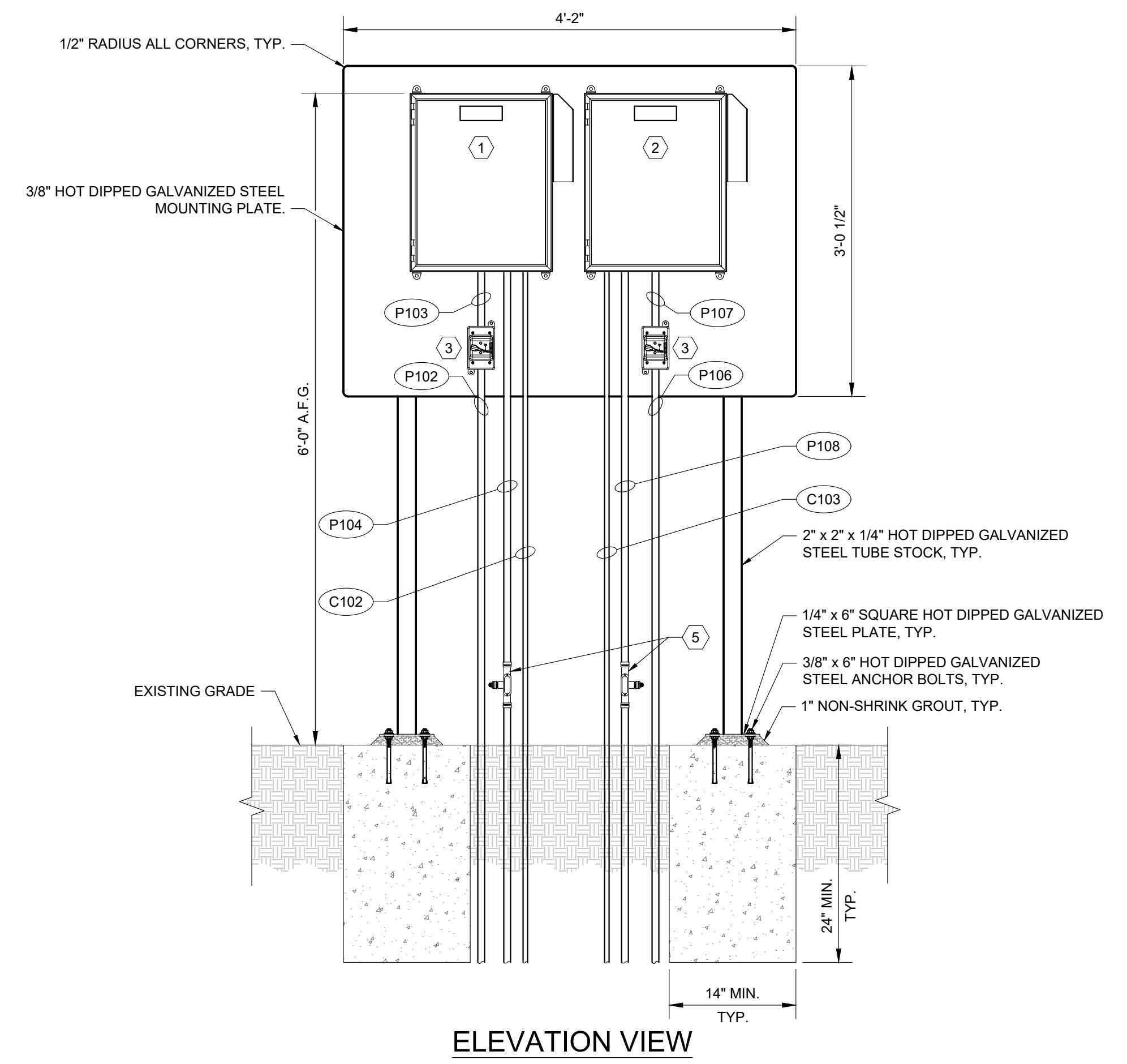
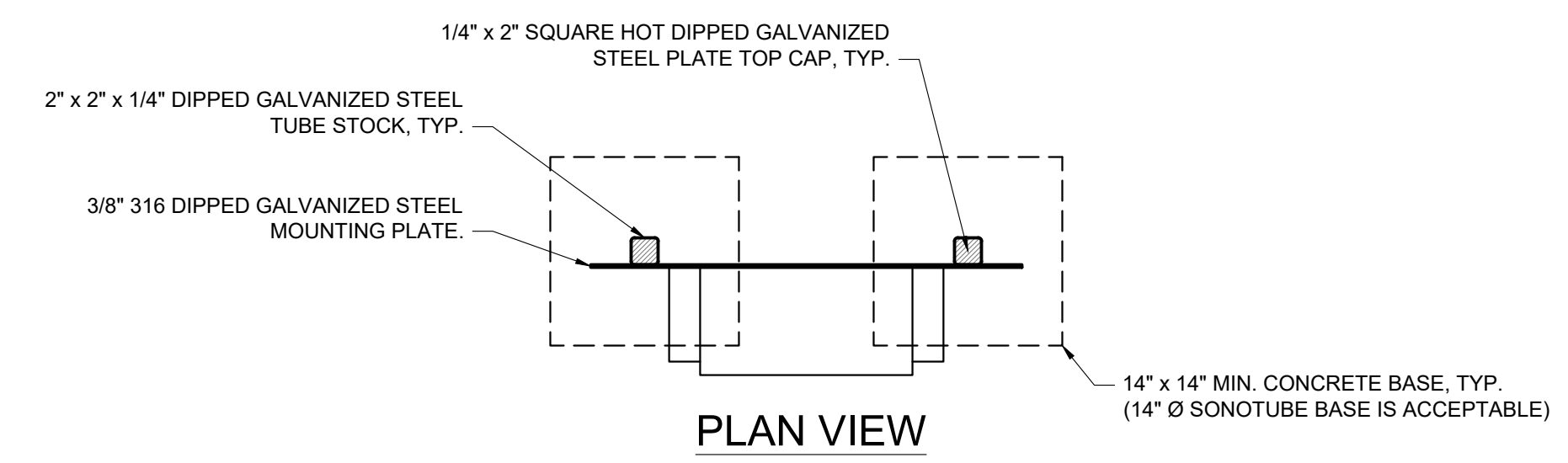
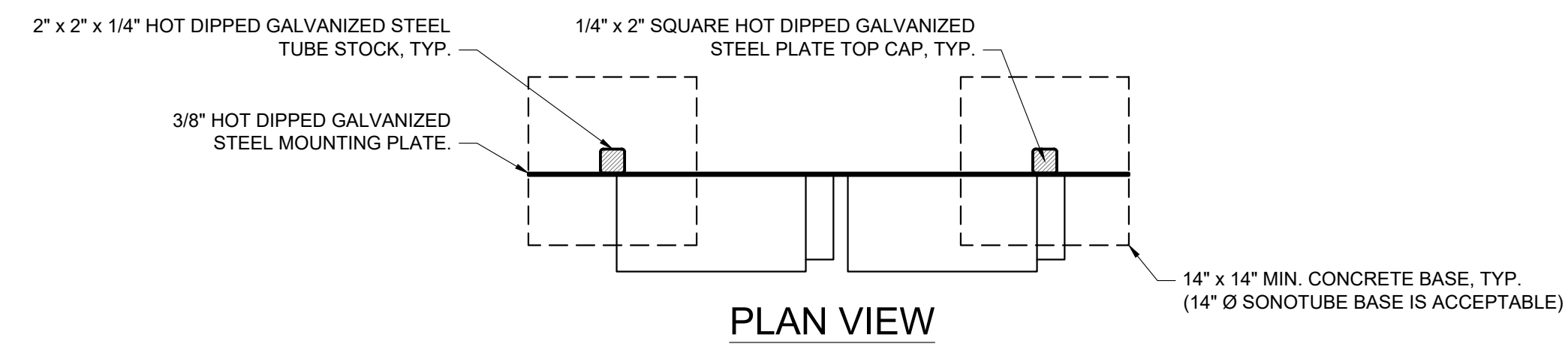
Rev	Description

MIXER CONTROL PANEL STAND DETAILS

Design DML
Drawn JCL
Checked BEP
Date 8/05/2019
Proj. No. 7021801
Drawing No.

E1.03

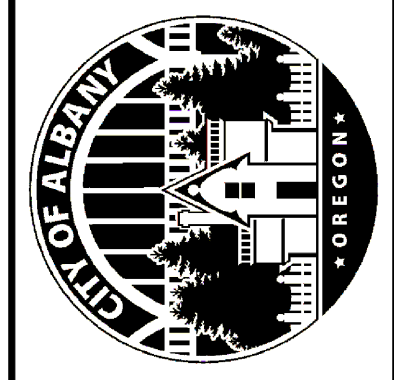
- SHEET KEY NOTES**
1. NORTH TANK PAX CONTROL CENTER PCC105.
 2. CENTRAL TANK PAX CONTROL CENTER PCC105.
 3. DISCONNECT SWITCH.
 4. SOUTH TANK PAX CONTROL CENTER PCC155.
 5. SEE DETAIL 1 ON SHEET E1.04 FOR CONDUIT DRAIN DETAIL.



1 NORTH & CENTRAL PUMP CONTROL PANEL STAND DETAIL
SCALE: NTS

2 SOUTH PUMP CONTROL PANEL STAND DETAIL
SCALE: NTS

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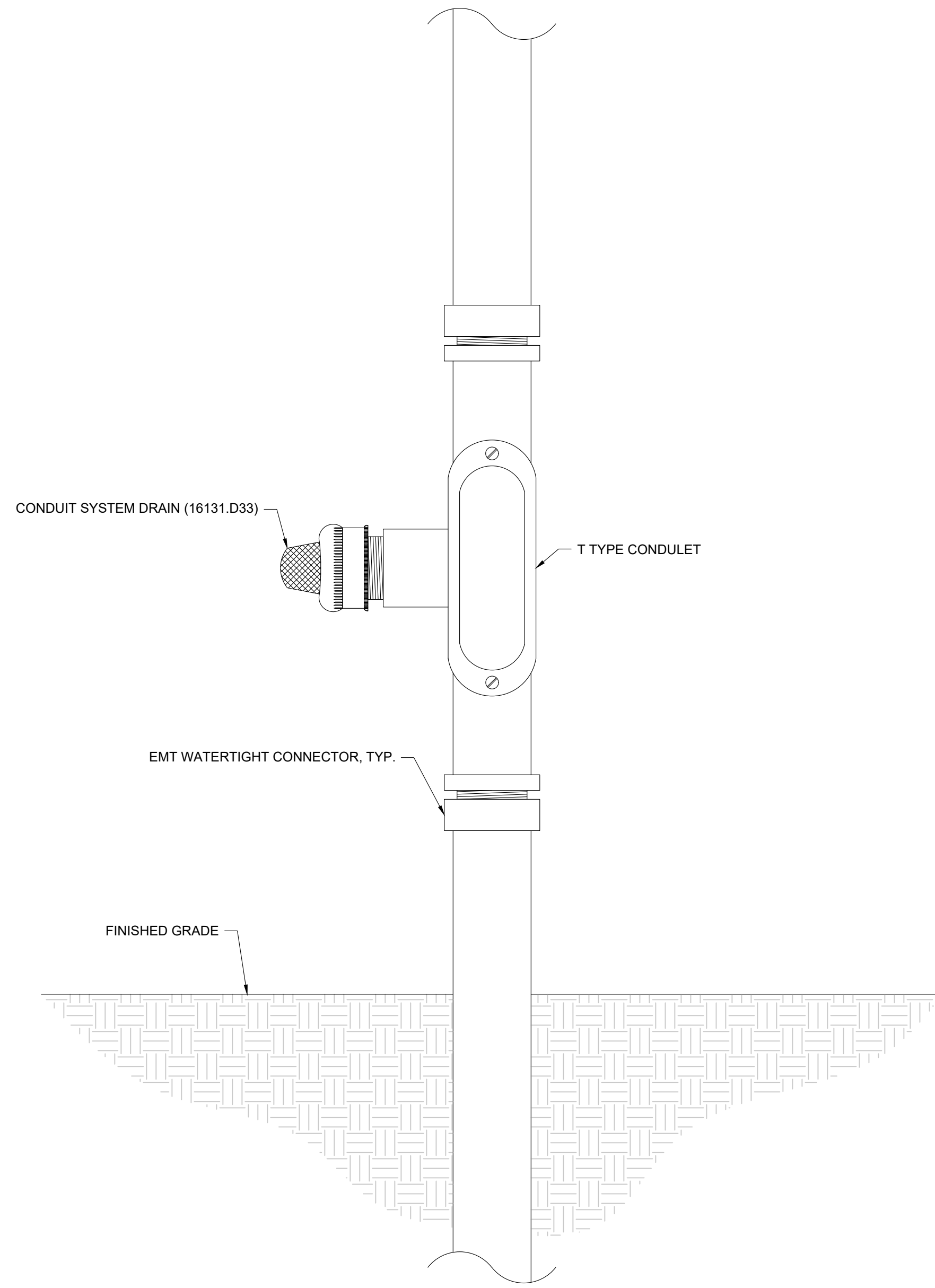


CITY OF ALBANY
VALLEY VIEW RESERVOIR MIXER
IMPROVEMENTS PROJECT
3240 VALLEY VIEW DRIVE
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Rev	Description
1	Revision 1 - 08/28/2019

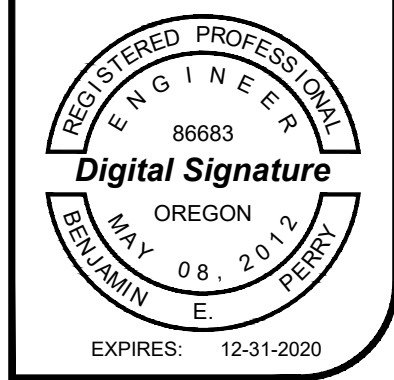
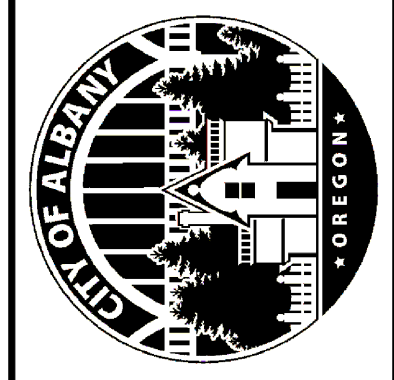
Design	DML
Drawn	JCL
Checked	BEP
Date	8/05/2019
Proj. No.	7021801
Drawing No.	E1.03

REFERENCE KEY NOTES
 DIVISION 16 - ELECTRICAL
 16131.D33 CONDUIT SYSTEM DRAIN



1 CONDUIT DRAIN DETAIL
 SCALE: NTS

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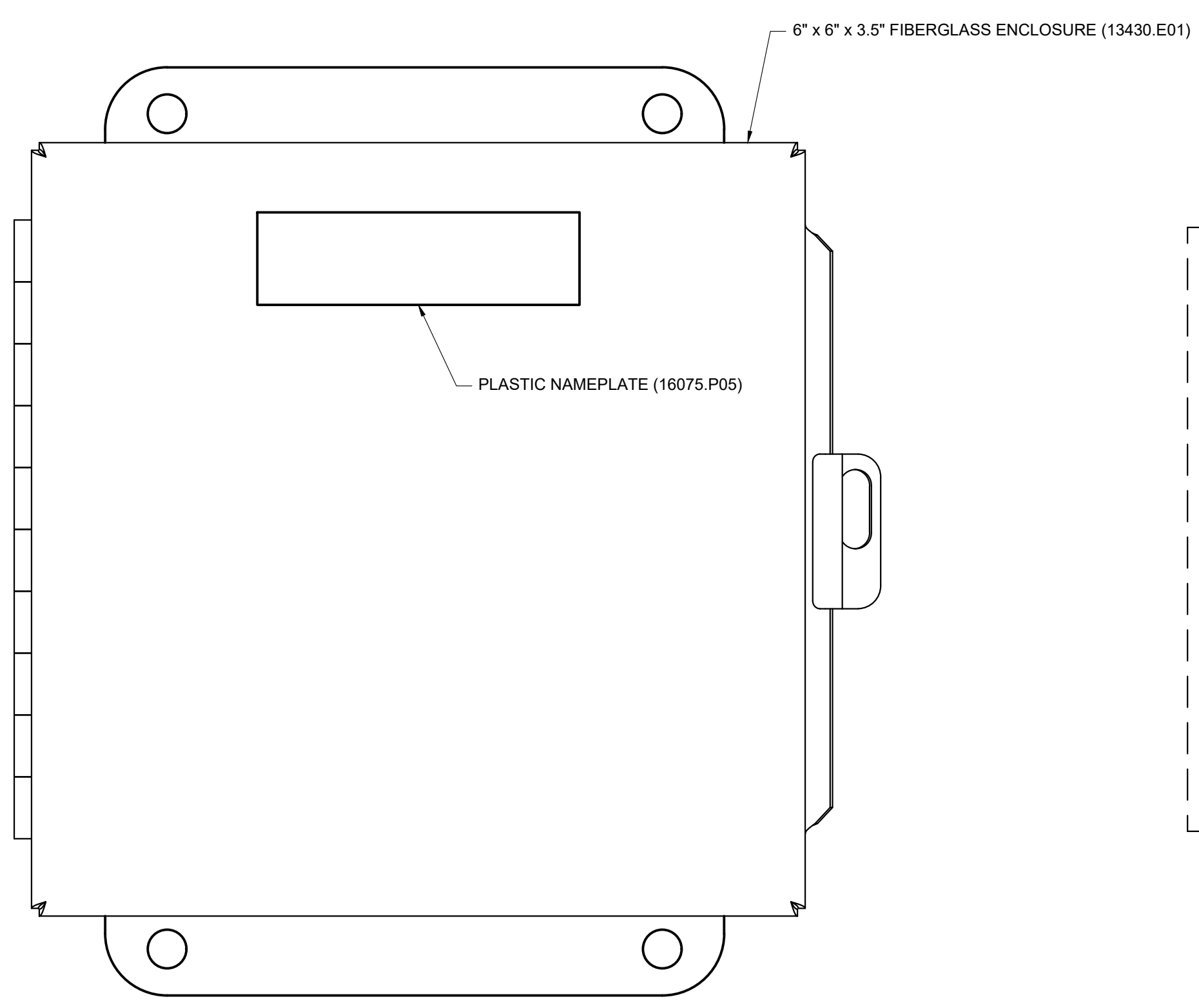
Rev	Description

CONDUIT SYSTEM
 DRAINAGE DETAIL

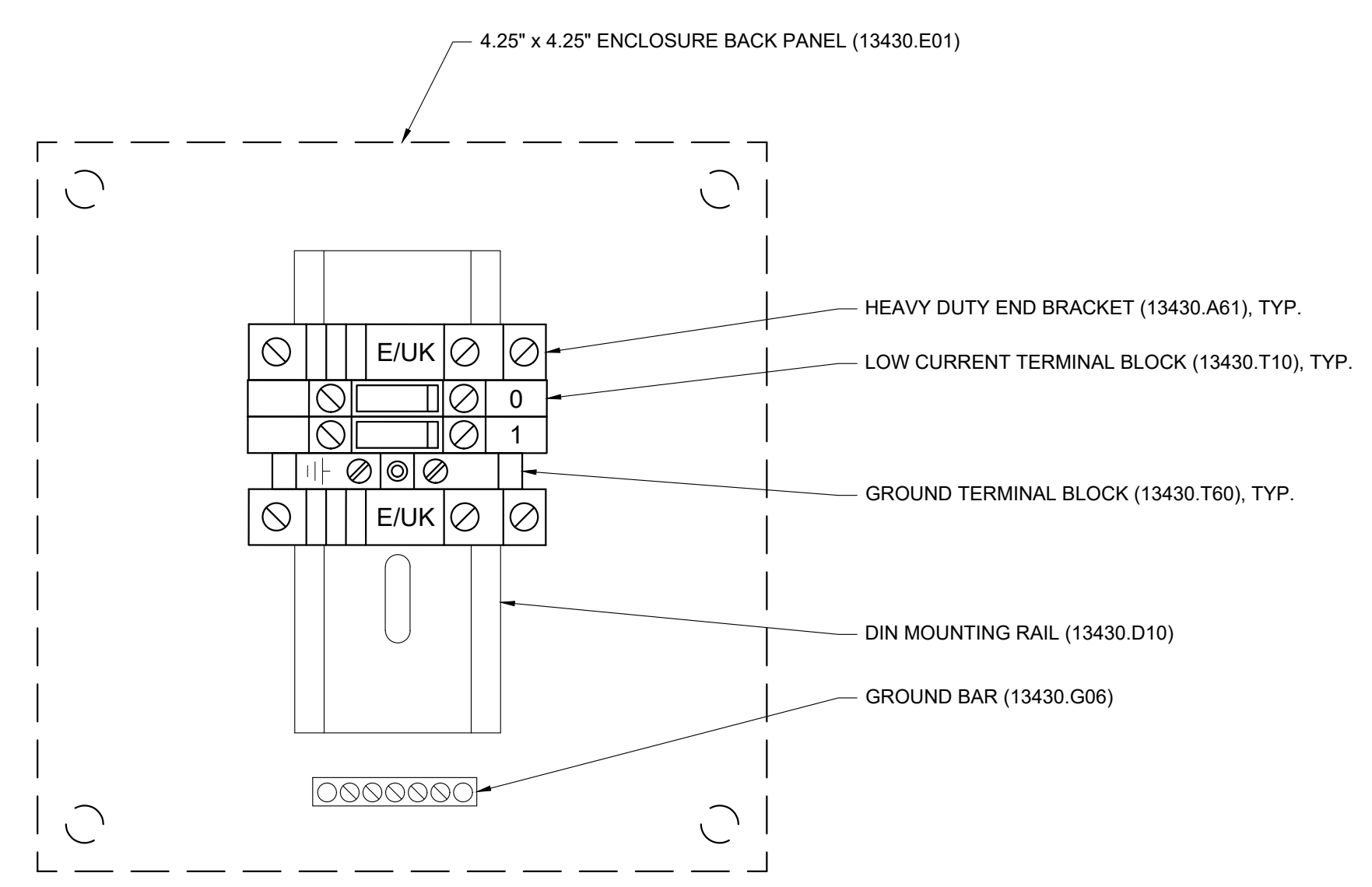
Design DML
 Drawn JCL
 Checked BEP
 Date 8/05/2019
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 Drawing No.

E1.04

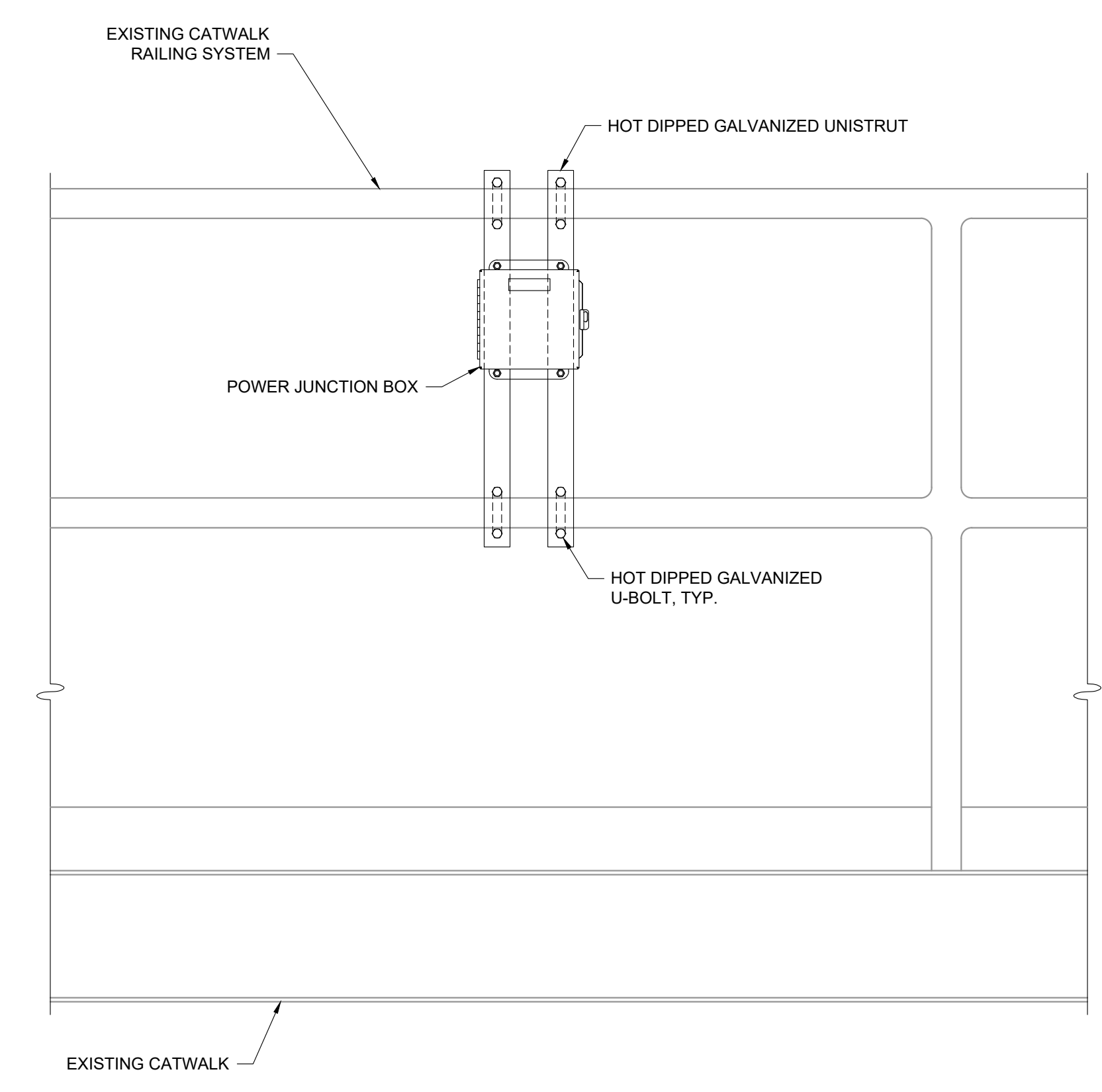
REFERENCE KEY NOTES	
DIVISION 13 - SPECIAL CONSTRUCTION	
13430.A61	HEAVY DUTY END BRACKET
13430.D10	DIN MOUNTING RAIL
13430.E01	MOTOR TERMINATION ENCLOSURE
13430.G06	GROUND BAR
13430.T10	LOW CURRENT TERMINAL BLOCKS
13430.T60	GROUNDING TERMINAL BLOCKS
DIVISION 16 - ELECTRICAL	
16075.P05	PLASTIC NAMEPLATES



1 TANK POWER JUNCTION BOX
EXTERIOR ELEVATION
SCALE: NOT TO SCALE

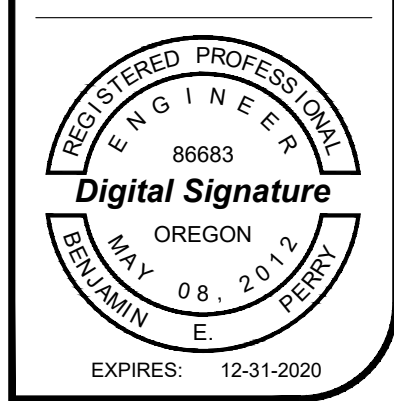
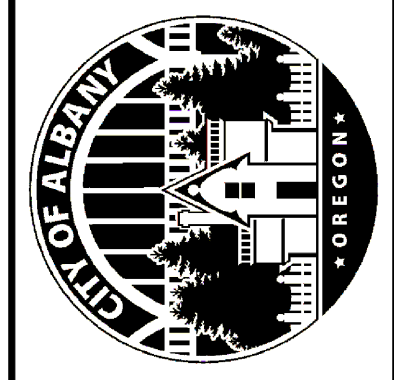


2 TANK POWER JUNCTION BOX
INTERIOR ELEVATION
SCALE: NOT TO SCALE



3 TANK POWER JUNCTION BOX
MOUNTING DETAIL
SCALE: NOT TO SCALE

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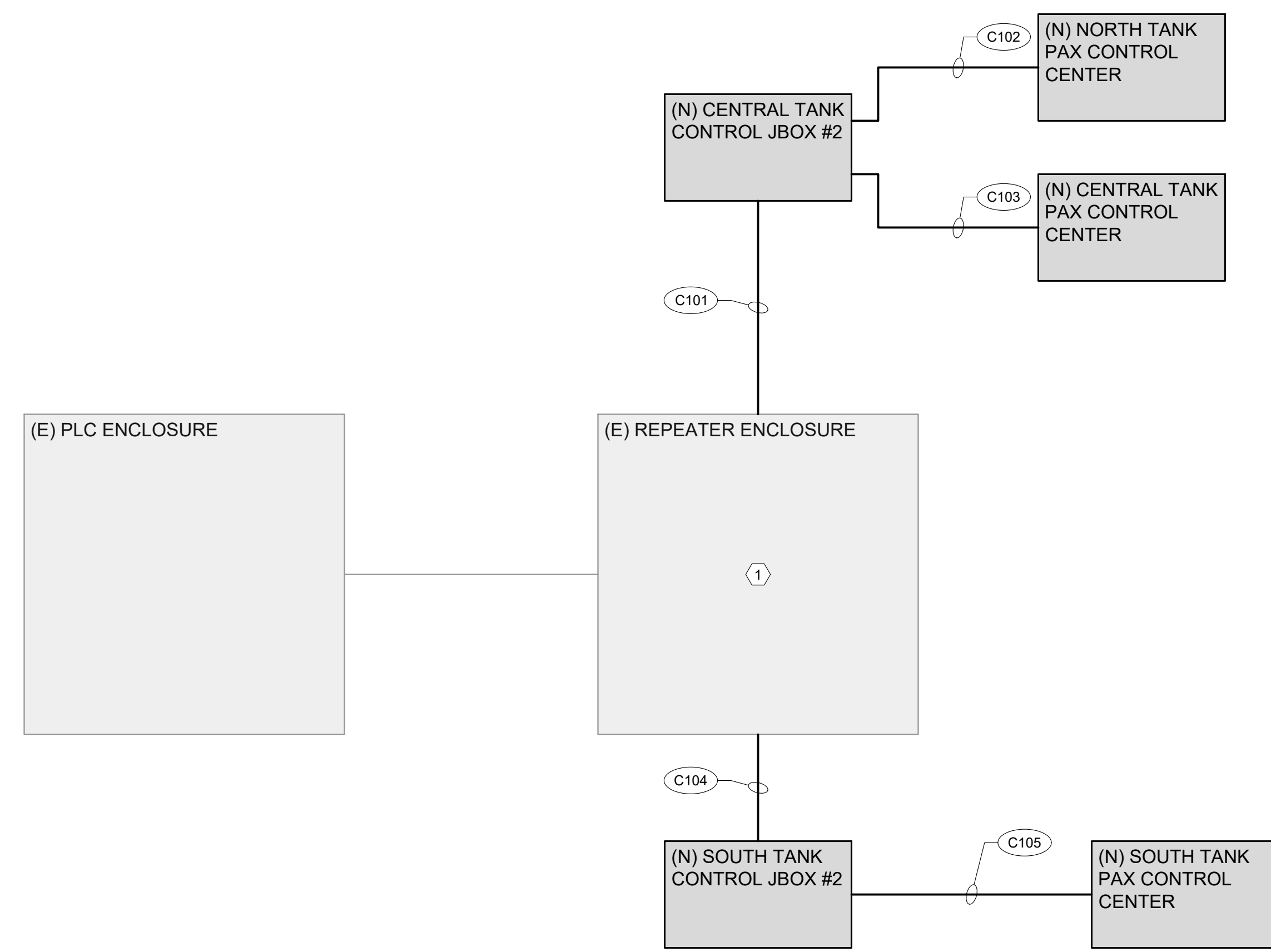
Rev	Description

TANK POWER
JUNCTION BOX
ELEVATION &
DETAILS

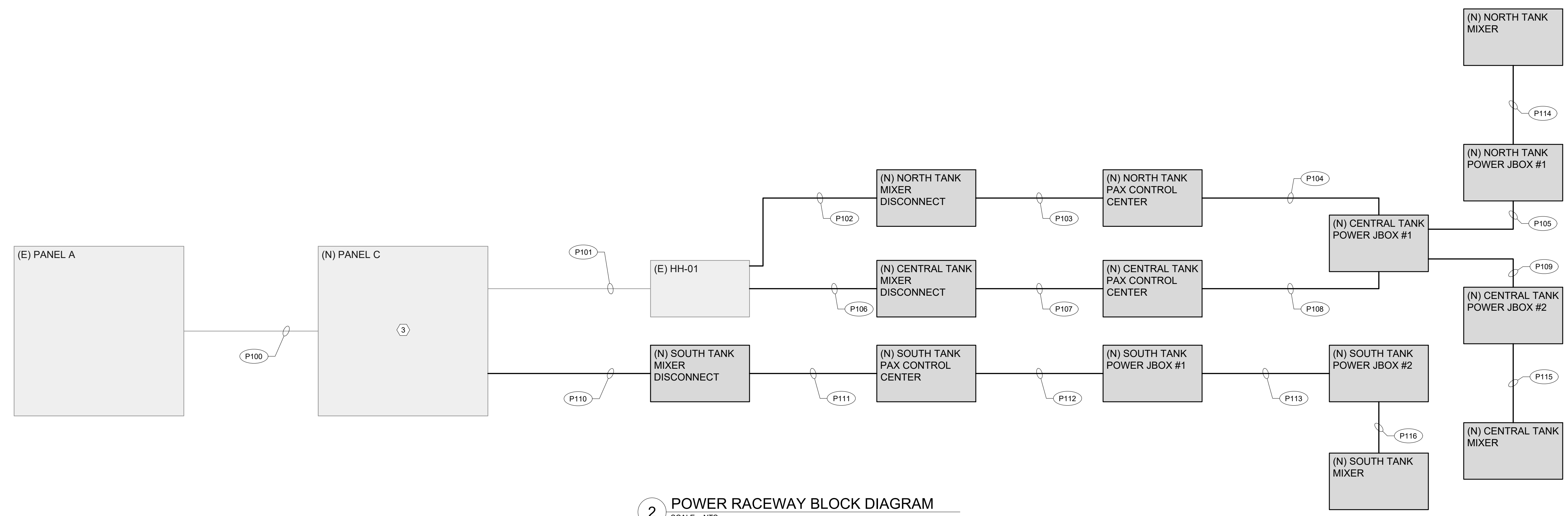
Design DML
Drawn JCL
Checked BEP
Date 8/05/2019
Proj. No. 7021801
Drawing No.

E1.05

- SHEET KEY NOTES**
1. CONTRACTOR SHALL TERMINATE ALL CONTROL CONDUCTORS AND CABLES ON OWNER PROVIDED, OWNER INSTALLED TERMINAL BLOCKS AS DIRECTED BY OWNER.
 2. NOT USED.
 3. CONTRACTOR SHALL MOUNT NEW LOAD CENTER "PANEL C" INSIDE EXISTING REPEATER ENCLOSURE.

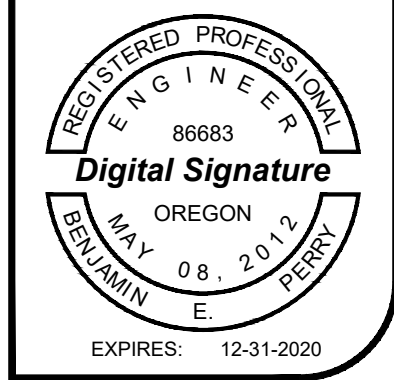


1 CONTROL RACEWAY BLOCK DIAGRAM
SCALE: NTS



2 POWER RACEWAY BLOCK DIAGRAM
SCALE: NTS

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Rev	Description

ELECTRICAL
RACEWAY BLOCK
DIAGRAM

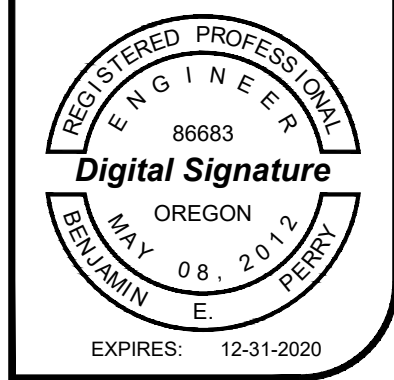
Design DML
Drawn JCL
Checked BEP
Date 8/05/2019
Proj. No. 7021801
Drawing No.

E2.01

SHEET KEY NOTES

1. PROVIDE GFCI TYPE CIRCUIT BREAKER.
2. EXISTING RECEPTACLE LOAD. CONTRACTOR SHALL REMOVE EXISTING WIRE COMPLETELY TO SOURCE. CONTRACTOR SHALL PULL NEW WIRE (1#12, 1#12, 1#12G) FROM NEW PANEL TO DEVICES AND RE-TERMINATE.

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Rev	Description

PANEL SCHEDULES

Design DML
 Drawn JCL
 Checked BEP
 Date 8/05/2019
 Proj. No. 7021801
 Drawing No. E3.01

PANEL NAME: A LOCATION: CONTROL BUILDING
 VOLT/PHASE: 120/240V, 1Ø FED FROM: ATS
 NUM. POLES: 24 BREAKER MOUNTING: BOLTED
 AIC RATING: 10,000 MAIN LUGS ONLY
 NOTES: (EXISTING PANEL) BUS RATING AMPS: 400

LOAD DESCRIPTION	LOAD TYPE	VOLT*AMP		TRIP RATING AMPS	CIRCUIT NUMBER	CIRCUIT NUMBER	TRIP RATING AMPS	VOLT*AMP		LOAD TYPE	LOAD DESCRIPTION
		L1	L2					L1	L2		
LIGHTS		-		20	1	2					
FLOW METER			-	20	3	4	175				PUMP SKID
SPARE		-		20	5	6					PANEL B
HVAC PANEL			-	20	7	8	100				
GENERATOR DAY TANK		-		20	9	10	20				SPARE
GENERATOR BLOCK HEATER			-	20	11	12	20				RECEPTACLES
GENERATOR BATTERY CHARGER		-		20	13	14	100	3600		R	PANEL C
SPARE			-	20	15	16			1800	R	
SPARE		-		20	17	18					SPACE
SPARE			-	20	19	20					SPACE
ROOM HEAT		-		20	21	22					SPACE
			-		23	24					SPACE

TOTAL LOAD: 0 0 TOTAL LOAD: 3600 1800
 COMBINED LOAD: 3600 1800 CONNECTED LOAD: 5400 DEMAND LOAD: 3,600
 DEMANDS AMPS: 15

Load Type Key	Demand Factor	Connected Load	Demand Load
R	General Purpose Receptacle	100% First 10kVA, 50% thereafter	3,600
L	Lighting	125% Load	0
M1	Largest Motor	125% FLA	0
M	Motor	100% Load	0
A	Appliance	50% Load	0
H	HVAC	100% Load	0
K	Kitchen	65% Load	0
T	Transformer	100% Load	0

PANEL NAME: C LOCATION: EXTERIOR OF REPEATER ENCLOSURE
 VOLT/PHASE: 120/240V, 1Ø FED FROM: PANEL A
 NUM. POLES: 12 BREAKER MOUNTING: BOLTED
 AIC RATING: 10,000 MAIN LUGS ONLY
 NOTES: (NEW PANEL) BUS RATING AMPS: 100

LOAD DESCRIPTION	LOAD TYPE	VOLT*AMP		TRIP RATING AMPS	CIRCUIT NUMBER	CIRCUIT NUMBER	TRIP RATING AMPS	VOLT*AMP		LOAD TYPE	LOAD DESCRIPTION
		L1	L2					L1	L2		
MIXER PUMP NORTH TANK	M1	1176		20	1	2	20	360		R	SCADA RECEPTACLES
MIXER PUMP CENTRAL TANK	M		1176	20	3	4	20		600	R	SCADA REPEATER
MIXER PUMP SOUTH TANK	M	1176		20	5	6	20	600		R	SCADA CONTROLLER
SPARE			-	20	7	8	20		-		SPARE
SPARE		-		20	9	10	20	-			SPARE
SPARE			-	20	11	12	20		-		SPARE

TOTAL LOAD: 2352 1176 TOTAL LOAD: 960 600
 COMBINED LOAD: 3312 1776 CONNECTED LOAD: 5088 DEMAND LOAD: 4,782
 DEMANDS AMPS: 20

Load Type Key	Demand Factor	Connected Load	Demand Load
R	General Purpose Receptacle	100% First 10kVA, 50% thereafter	960
L	Lighting	125% Load	0
M1	Largest Motor	125% FLA	1,176
M	Motor	100% Load	2,352
A	Appliance	50% Load	0
H	HVAC	100% Load	0
K	Kitchen	65% Load	0
T	Transformer	100% Load	0