

DRAWING SET SCALE
IF THIS BAR DOES NOT MEASURE 1/4" IN LENGTH, THE SCALE INDICATED THROUGHOUT THIS SET IS NOT ACCURATE. VERIFY SCALE PRIOR TO USING DRAWINGS.

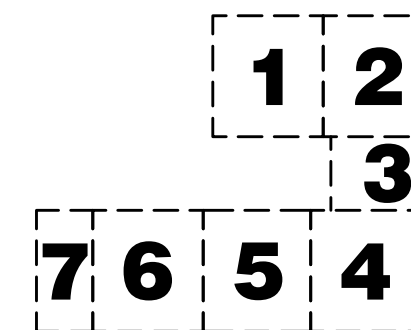
ONE INCH

SHEET INDEX

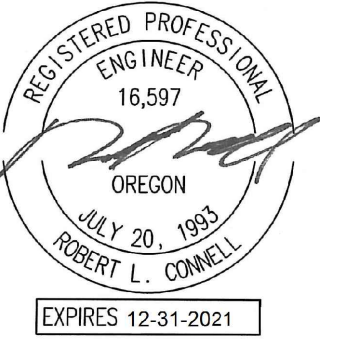
- E0.1 ELECTRICAL COVER
- E1.0 DEMO PLAN - ELECTRICAL
- E2.0 SITE PLAN OVERALL- ELECTRICAL
- E2.1 SITE PLAN AREA 1 - ELECTRICAL
- E2.2 SITE PLAN AREA 2 - ELECTRICAL
- E2.3 SITE PLAN AREA 3 - ELECTRICAL
- E2.4 SITE PLAN AREA 4 - ELECTRICAL
- E2.5 SITE PLAN AREA 5 - ELECTRICAL
- E2.6 SITE PLAN AREA 6 - ELECTRICAL
- E2.7 SITE PLAN - PHOTOMETRICS
- E3.0 ELECTRICAL DETAILS
- E3.1 ELECTRICAL DETAILS
- E3.2 ELECTRICAL DETAILS

ELECTRICAL SYMBOLS

- LIGHT FIXTURE, SURFACE MOUNT
 - RECEPTACLE, DUPLEX +18" A.F.F.
 - RECEPTACLE, QUAD +18" A.F.F.
 - RECEPTACLE, DUPLEX +6" ABV COUNTER
 - DISCONNECT, NON-FUSED
 - DISCONNECT, FUSED
 - ELECTRICAL CONNECTION
 - ELECTRICAL CONNECTION, SINGLE MOTOR
 - ELECTRICAL CONNECTION, MULTI-MOTOR
 - ELECTRICAL DISTRIBUTION PANEL, RECESSED
 - ELECTRICAL DISTRIBUTION PANEL, SURFACE
 - MISCELLANEOUS PANEL, RECESSED
 - MISCELLANEOUS PANEL, SURFACE
 - TIME CLOCK CONTROL
 - SWITCH, SINGLE-POLE +48" A.F.F.
 - SWITCH, DOUBLE-POLE +48" A.F.F.
 - PHOTOCELL CONTROL
 - OCCUPANCY SENSOR - CEILING MTD
 - G.F.I. GROUND FAULT INTERRUPTER
 - W.G. WIRE GUARD
 - W.P. WEATHER-PROOF
 - T.R. TAMPER RESISTANCE
 - DRAWING NOTE
 - DETAIL REFERENCE: TOP=DETAIL NO., BOTTOM=SHEET NO.
 - MECHANICAL EQUIPMENT MARK NO. (SEE EQUIPMENT SCHEDULE)
 - EQUIPMENT NO. (SEE EQUIPMENT SCHEDULE)
 - EQUIPMENT NO. (SEE EQUIPMENT SCHEDULE)
 - FEEDER NO. (SEE FEEDER SCHEDULE)
 - FIXTURE REFERENCE: TOP=TYPE, BOTTOM=LAMP QTY & WATTS
-
- 2A-9 PANEL & CIRCUIT NUMBER
 - #10 HOMERUN TO PANEL
 - CONDUCTOR SIZE (IF OTHER THAN #12)
 - PHASE CONDUCTOR
 - NEUTRAL CONDUCTOR
 - GROUND CONDUCTOR
 - CONCEALED CONDUIT
 - 1-1/4" CONDUIT SIZE
 - CONDUIT (UNDER SLAB OR FLOOR)
 - FLEXIBLE CONNECTION
 - CONDUIT, STUBBED & CAPPED
-
- ELECTRICAL DISTRIBUTION PANELBOARD (MLO)
 - ELECTRICAL DISTRIBUTION PANELBOARD (MCB)
 - SUB-FEED CIRCUIT BREAKER



PERMIT REVIEW STAMP



METIA INC. Consulting Engineers
2007 S.E. Ash St.
Portland, OR 97214
PHN: (503) 234-0548
FAX: (503) 234-0877
WWW.METIA-ENG.COM
CONTACT: Rob Connell

PORTLAND PARKS AND RECREATION
CARMEN RUBIO, Commissioner
ADENA LONG, Director

WASHINGTON PARK, SOUTH ENTRY
4033 SW CANYON RD. PORTLAND OR 97221
PROJECT MANAGER: TRAVIS RUYBAL, RLA (503) 823-5487
DATE 09/15/21 SCALE AS SHOWN DRAWN BY: SECTION: NORTHWEST

REVISIONS

DATE	DESCRIPTION	BY

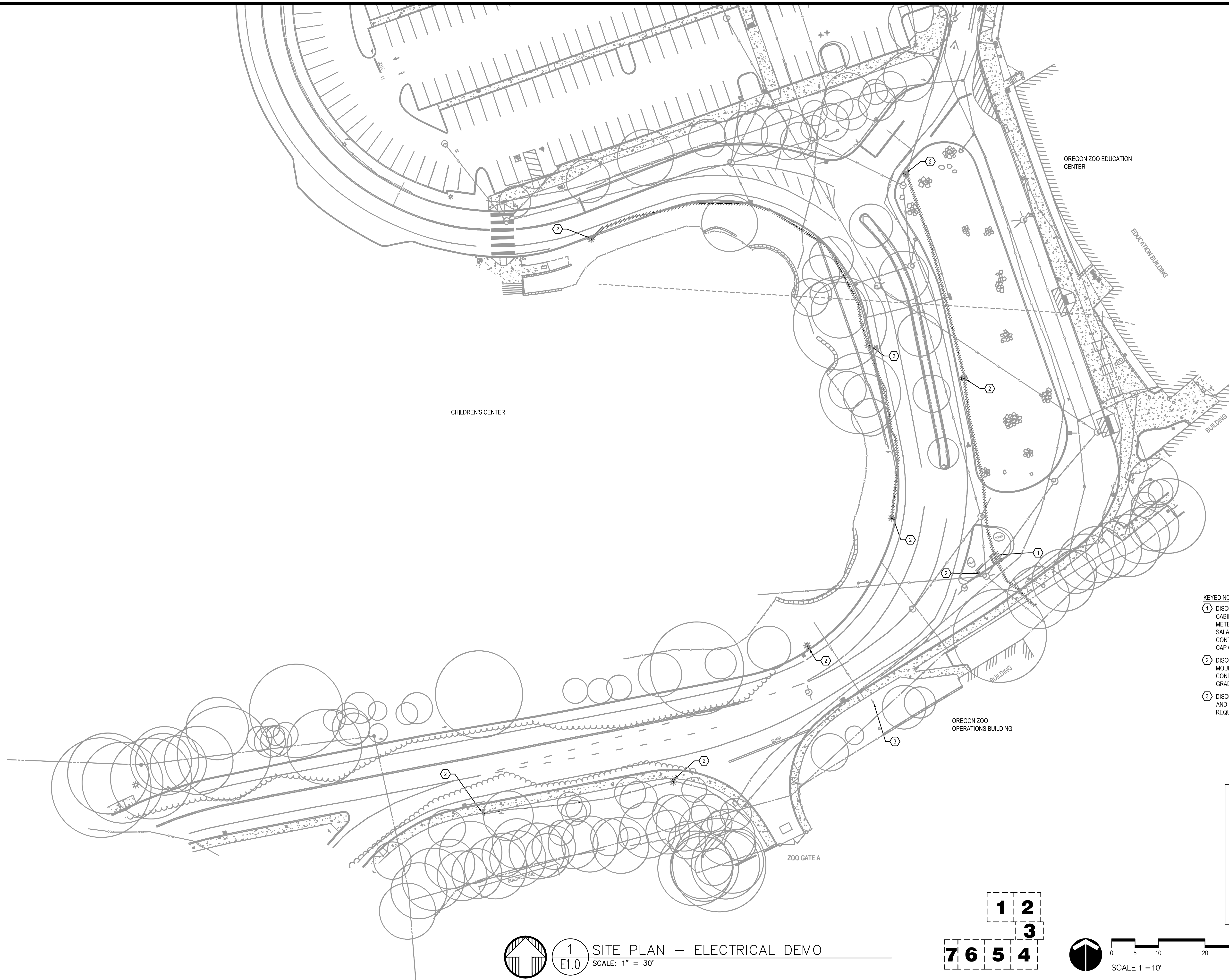
ELECTRICAL COVER

E0.1

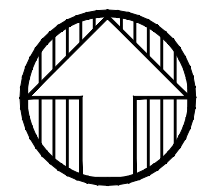
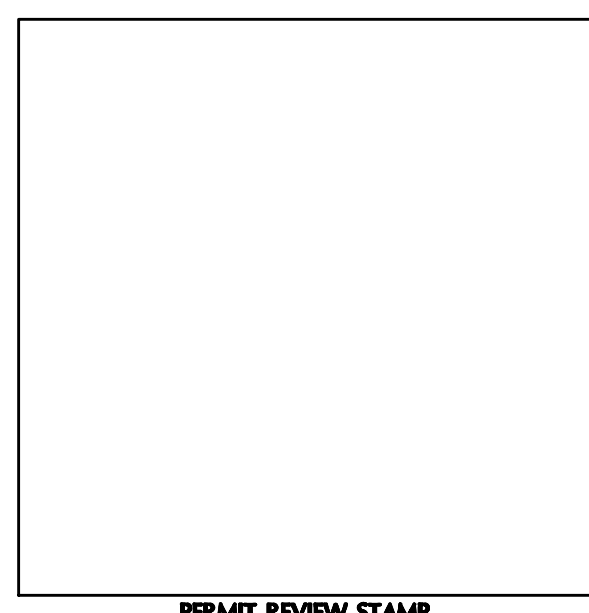
PERMIT SET

DRAWING SET SCALE: IF THIS BAR DOES NOT MEASURE, INCH IN LENGTH, THE SCALE INDICATED THROUGHOUT THIS SET IS NOT ACCURATE. VERIFY SCALE PRIOR TO USING DRAWINGS.

ONE INCH



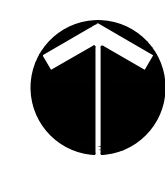
- KEYED NOTES - DEMO**
- ① DISCONNECT AND REMOVE EXISTING PARKS SERVICE CABINET CONTAINING 480Y/277V-100 PANEL, POWER USE METER, TIMELOCK, AND TRANSFORMER/PANEL - SALVAGE TO OWNER FOR RE-USE AS IRRIGATION CONTROLLER CABINET. REMOVE CONDUCTORS, CUT AND CAP CONDUITS BELOW NEW GRADE.
 - ② DISCONNECT AND REMOVE EXISTING POLE, POLE MOUNTED LUMINAIRE, AND FOUNDATION. REMOVE CONDUCTORS, CUT AND CAP CONDUITS BELOW NEW GRADE.
 - ③ DISCONNECT EXISTING DIGITAL SIGN FOR RELOCATION AND RECONNECT. EXTEND CIRCUITING AND DATA AS REQUIRED. VERIFY EXACT LOCATION WITH OWNER.



1
E1.0

SITE PLAN - ELECTRICAL DEMO
SCALE: 1" = 30'

1 2
3
7 6 5 4



0 5 10 20 30 50 FT
SCALE 1" = 10'



METIA INC. Consulting Engineers
2007 S.E. Ash St.
Portland, OR 97214
PHN: (503) 234-0548
FAX: (503) 234-0877
CONTACT: Rob Connell

PORTLAND PARKS AND RECREATION
CARMEN RUBIO, Commissioner

ADENA LONG, Director

WASHINGTON PARK, SOUTH ENTRY

PROJECT MANAGER: TRAVIS RUYBAL, RLA (503) 823-5487
DATE: 09/15/21

SECTION: NORTHWEST

DRAWN BY:

SCALE AS SHOWN

REVISIONS		
DATE	DESCRIPTION	BY

DEMO PLAN - ELECTRICAL

E1.0

PERMIT SET

DRAWING SET SCALE:
 IF THIS BAR DOES NOT MEASURE 1/4" IN LENGTH, THE SCALE INDICATED THROUGHOUT THIS SET IS NOT ACCURATE. VERIFY SCALE PRIOR TO USING DRAWINGS.



METIA INC. Consulting Engineers
 2007 S.E. Ash St.
 Portland, OR 97214
 PHN: (503) 234-0548
 FAX: (503) 234-0877
 WWW.METIA-ENG.COM
 CONTACT: Rob Connell

PORTLAND PARKS AND RECREATION
 CARMEN RUBIO, Commissioner
 ADENA LONG, Director

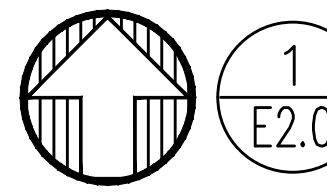
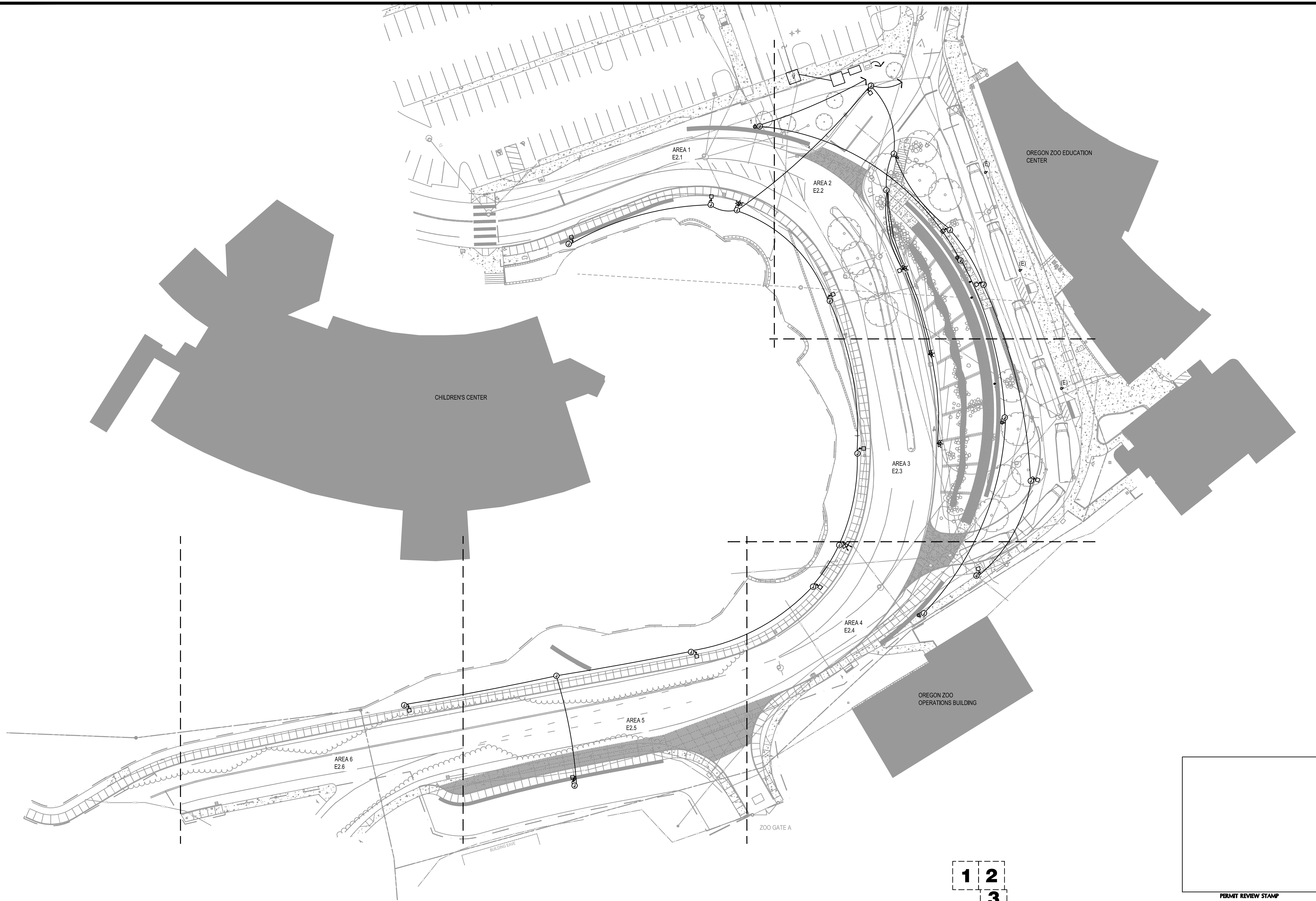
WASHINGTON PARK, SOUTH ENTRY
 4033 SW CANYON RD. PORTLAND OR 97221
 DATE: 09/15/21

PROJECT MANAGER: TRAVIS RUYBAL, RLA (503) 823-5487
 SECTION: NORTHWEST
 DRAWN BY:
 SCALE: AS SHOWN

REVISIONS		
DATE	DESCRIPTION	BY

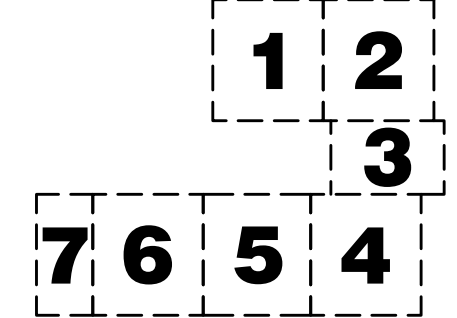
SITE PLAN - ELECTRICAL

E2.0

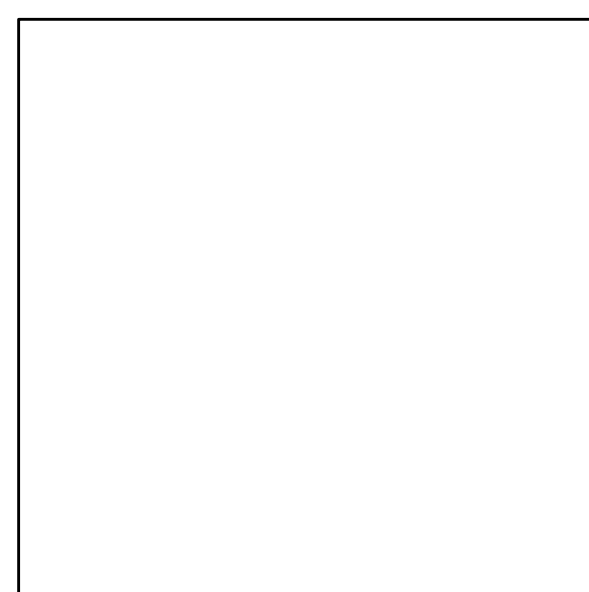


1
E2.0

SITE PLAN OVERALL - ELECTRICAL
 SCALE: 1" = 30'



0 5 10 20 30 50 FT
 SCALE 1" = 10'

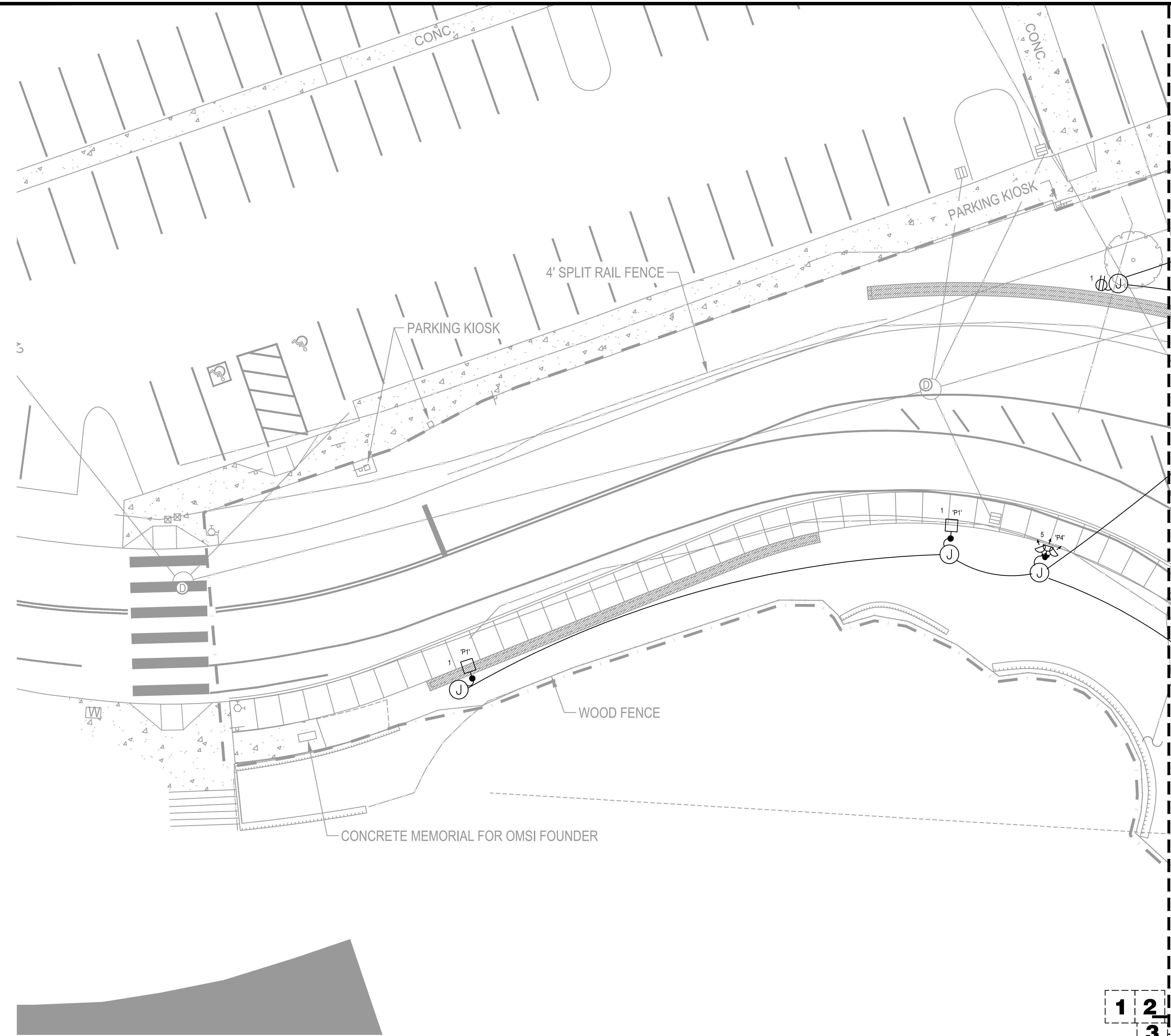


PERMIT REVIEW STAMP

PERMIT SET

DRAWING SET SCALE: IF THIS BAR DOES NOT MEASURE 1/4" IN LENGTH, THE SCALE INDICATED THROUGHOUT THIS SET IS NOT ACCURATE. VERIFY SCALE PRIOR TO USING DRAWINGS.

ONE INCH



- KEYED NOTES - SITE**
- ① EXISTING PGE PRIMARY VAULT (FIELD VERIFY EXACT LOCATION).
 - ② EXISTING PGE UNDERGROUND PRIMARY FEEDER TO CHILDREN'S MUSEUM (FIELD VERIFY EXACT LOCATION).
 - ③ EXISTING PGE UNDERGROUND PRIMARY FEEDER TO ZOO NORTH SERVICE.
 - ④ EXISTING PGE UNDERGROUND PRIMARY FROM NORTH.
 - ⑤ PROVIDE UNDERGROUND 5" PRIMARY CONDUIT PER PGE STANDARDS.
 - ⑥ PROVIDE 8' X 8' TRANSFORMER PAD PER PGE REQUIREMENTS FOR PGE 480Y/277V-3PH-4W SECONDARY PAD-MOUNTED TRANSFORMER.
 - ⑦ PROVIDE VANDAL-RESISTANT WEATHERPROOF ABOVE-GRADE RECEPTACLE. SEE DETAIL.
 - ⑧ PROVIDE IN-GROUND HANDHOLE. SEE DETAIL 1/E3.1.
 - ⑨ RECONNECT RELOCATED DIGITAL SIGN - EXTEND CIRCUITING AND DATA AS REQUIRED. VERIFY LOCATION.



METIA Consulting Engineers
2007 S.E. Ash St.
Portland, OR 97214
PHN: (503) 234-0548
FAX: (503) 234-0877
WWW.METIA-ENG.COM
CONTACT: Rob Connell

PORTLAND PARKS AND RECREATION
CARMEN RUBIO, Commissioner

ADENA LONG, Director

WASHINGTON PARK, SOUTH ENTRY

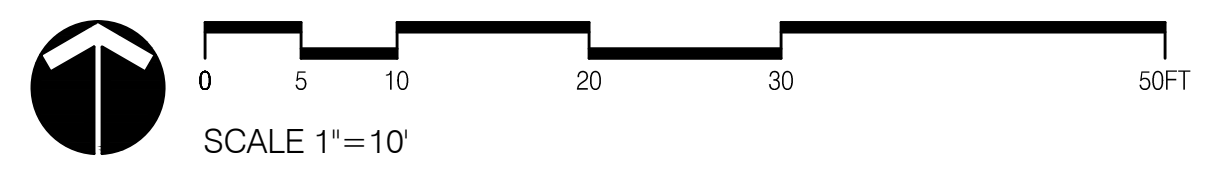
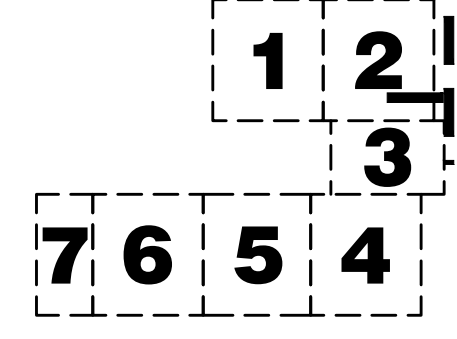
4033 SW CANYON RD. PORTLAND OR 97221
PROJECT MANAGER: TRAVIS RUYBAL, RLA (503) 823-5487
DATE: 09/15/21
SCALE: AS SHOWN
DRAWN BY: SECTION: NORTHWEST

REVISIONS		
DATE	DESCRIPTION	BY

SITE PLAN AREA 1 - ELECTRICAL

E2.1

1 SITE PLAN AREA 1 - ELECTRICAL
E2.1 SCALE: 1" = 10'

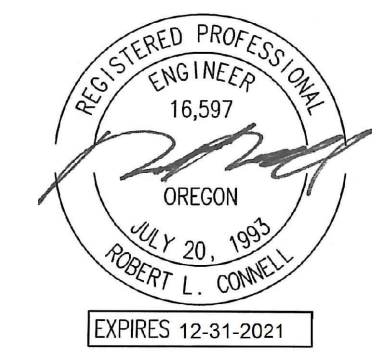


PERMIT SET

DRAWING SET SCALE: IF THIS BAR DOES NOT MEASURE, INCH IN LENGTH, THE SCALE INDICATED THROUGHOUT THIS SET IS NOT ACCURATE. VERIFY SCALE PRIOR TO USING DRAWINGS.



- KEYED NOTES - SITE**
- ① EXISTING PGE PRIMARY VAULT (FIELD VERIFY EXACT LOCATION).
 - ② EXISTING PGE UNDERGROUND PRIMARY FEEDER TO CHILDREN'S MUSEUM (FIELD VERIFY EXACT LOCATION).
 - ③ EXISTING PGE UNDERGROUND PRIMARY FEEDER TO ZOO NORTH SERVICE.
 - ④ EXISTING PGE UNDERGROUND PRIMARY FROM NORTH.
 - ⑤ PROVIDE UNDERGROUND 5" PRIMARY CONDUIT PER PGE STANDARDS.
 - ⑥ PROVIDE 8' X 8' TRANSFORMER PAD PER PGE REQUIREMENTS FOR PGE 480Y/277V-3PH-4W SECONDARY PAD-MOUNTED TRANSFORMER.
 - ⑦ PROVIDE VANDAL-RESISTANT WEATHERPROOF ABOVE-GRADE RECEPTACLE. SEE DETAIL.
 - ⑧ PROVIDE IN-GROUND HANDHOLE. SEE DETAIL 1/E3.1.
 - ⑨ RECONNECT RELOCATED DIGITAL SIGN - EXTEND CIRCUITING AND DATA AS REQUIRED. VERIFY LOCATION.



META INC. Consulting Engineers
2007 S.E. Ash St.
Portland, OR 97214
PHN: (503) 234-0548
FAX: (503) 234-0877
WWW.META-ENG.COM
CONTACT: Rob Connell

PORTLAND PARKS AND RECREATION
CARMEN RUBIO, Commissioner
ADENA LONG, Director

WASHINGTON PARK, SOUTH ENTRY
4033 SW CANYON RD. PORTLAND OR 97221
PROJECT MANAGER: TRAVIS RUYBAL, RLA (503) 823-5487
DATE 09/15/21 SCALE AS SHOWN DRAWN BY: SECTION: NORTHWEST

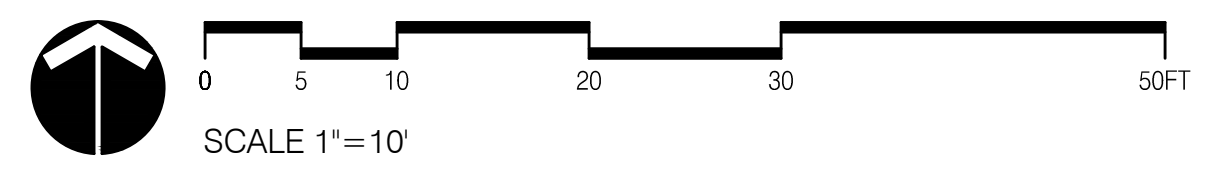
REVISIONS		
DATE	DESCRIPTION	BY

SITE PLAN AREA 2 - ELECTRICAL

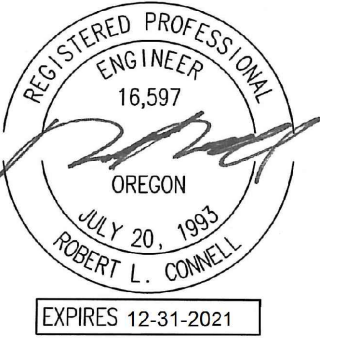
E2.2

1 SITE PLAN AREA 2 - ELECTRICAL
E2.2 SCALE: 1" = 10'

7 6 5 4



PERMIT SET



**M
E
A
INC.** Consulting Engineers
2007 S.E. Ash St.
Portland, OR 97214
PHN: (503) 234-0548
FAX: (503) 234-0877
CONTACT: Rob Connell

PORTLAND PARKS AND RECREATION
CARMEN RUBIO, Commissioner
ADENA LONG, Director

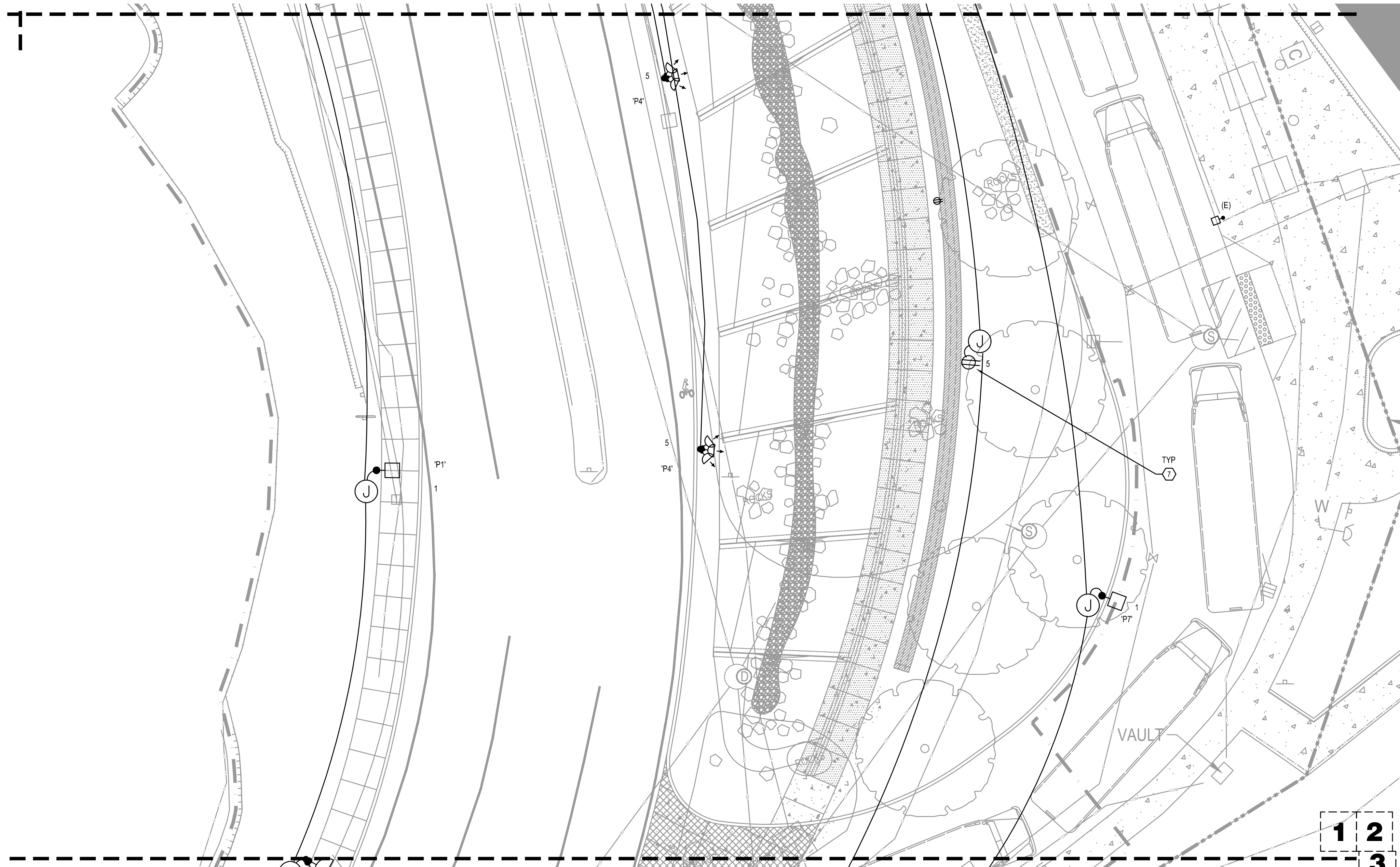
WASHINGTON PARK, SOUTH ENTRY
4033 SW CANYON RD. PORTLAND OR 97221
PROJECT MANAGER: TRAVIS RUYBAL, RLA (503) 823-5487
DATE 09/15/21 SCALE AS SHOWN DRAWN BY: SECTION: NORTHWEST

REVISIONS		
DATE	DESCRIPTION	BY

**SITE PLAN
AREA 3 -
ELECTRICAL**

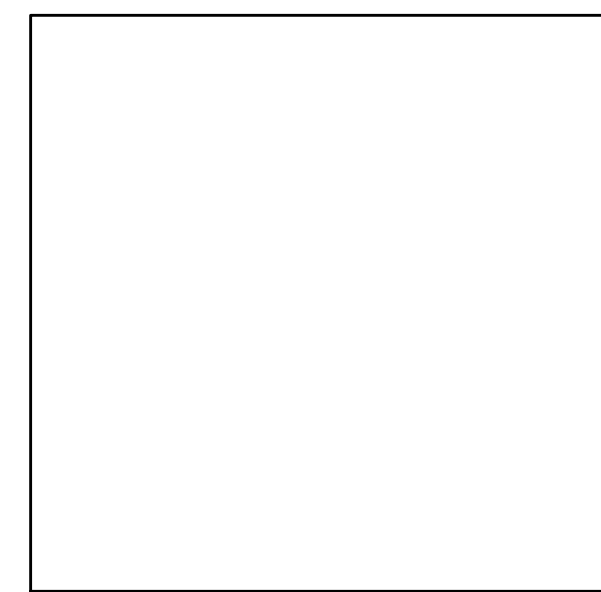
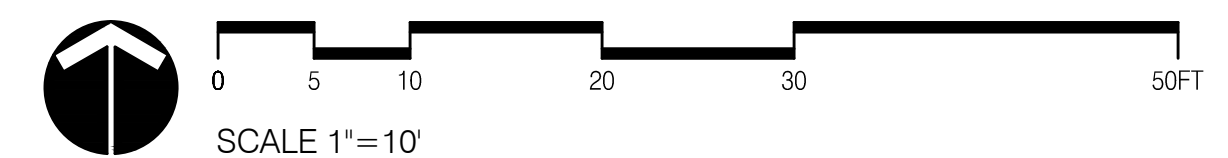
E2.3

- KEYED NOTES - SITE**
- ① EXISTING PGE PRIMARY VAULT (FIELD VERIFY EXACT LOCATION).
 - ② EXISTING PGE UNDERGROUND PRIMARY FEEDER TO CHILDREN'S MUSEUM (FIELD VERIFY EXACT LOCATION).
 - ③ EXISTING PGE UNDERGROUND PRIMARY FEEDER TO ZOO NORTH SERVICE.
 - ④ EXISTING PGE UNDERGROUND PRIMARY FROM NORTH.
 - ⑤ PROVIDE UNDERGROUND 5" PRIMARY CONDUIT PER PGE STANDARDS.
 - ⑥ PROVIDE 8' X 8' TRANSFORMER PAD PER PGE REQUIREMENTS FOR PGE 480Y/277V-3PH-4W SECONDARY PAD-MOUNTED TRANSFORMER.
 - ⑦ PROVIDE VANDAL-RESISTANT WEATHERPROOF ABOVE-GRADE RECEPTACLE. SEE DETAIL.
 - ⑧ PROVIDE IN-GROUND HANDHOLE. SEE DETAIL 1/E3.1.
 - ⑨ RECONNECT RELOCATED DIGITAL SIGN - EXTEND CIRCUITING AND DATA AS REQUIRED. VERIFY LOCATION.



1 SITE PLAN AREA 3 - ELECTRICAL
E2.3 SCALE: 1" = 10'

1 2 3
7 6 5 4

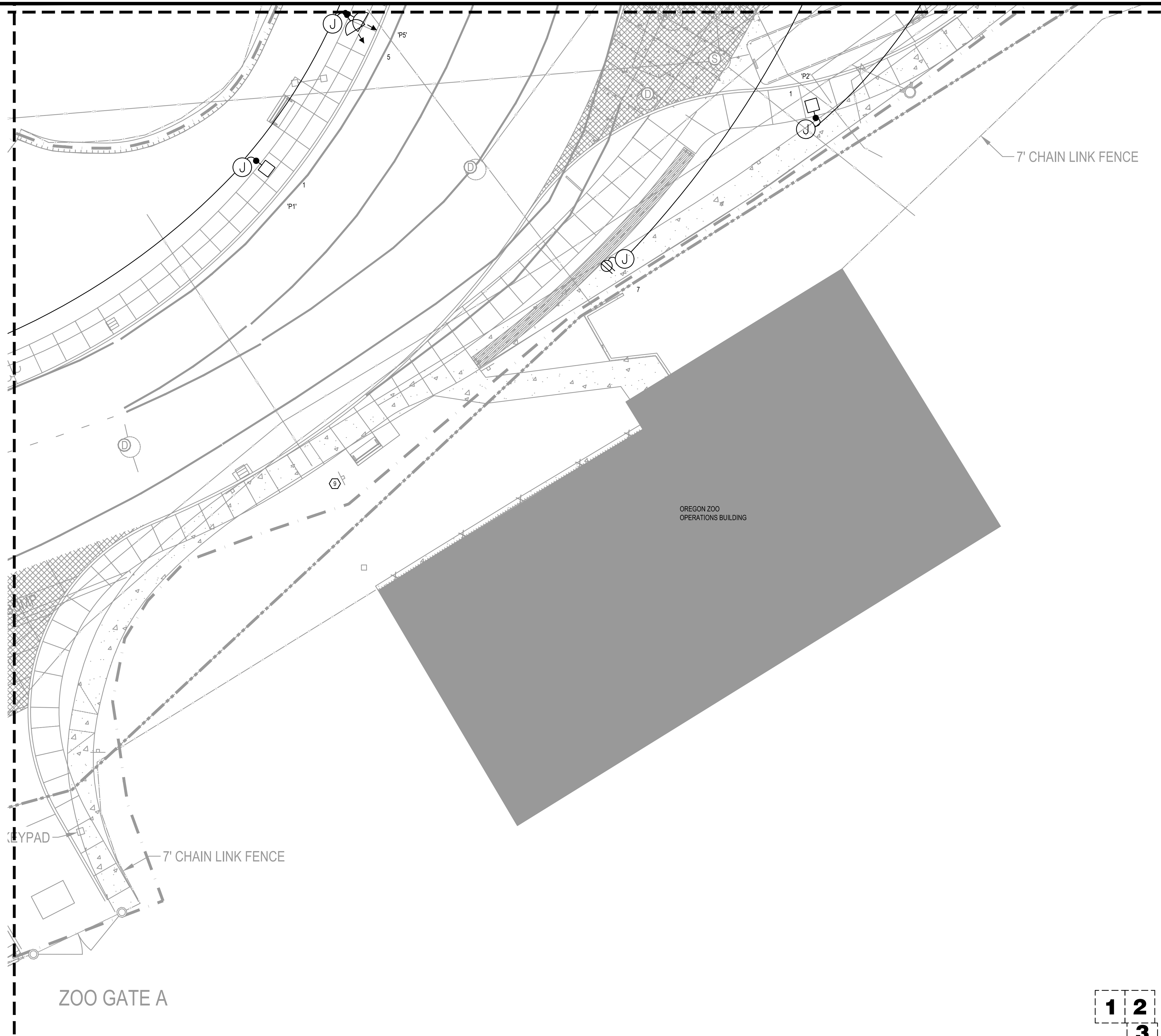


PERMIT SET

DRAWING SET SCALE: IF THIS BAR DOES NOT MEASURE, INCH IN LENGTH, THE SCALE INDICATED THROUGHOUT THIS SET IS NOT ACCURATE. VERIFY SCALE PRIOR TO USING DRAWINGS.

ONE INCH

DRAWING SET SCALE: IF THIS BAR DOES NOT MEASURE, ANCH IN LENGTH, THE SCALE INDICATED THROUGHOUT THIS SET IS NOT ACCURATE. VERIFY SCALE PRIOR TO USING DRAWINGS.



- KEYED NOTES - SITE**
- ① EXISTING PGE PRIMARY VAULT (FIELD VERIFY EXACT LOCATION).
 - ② EXISTING PGE UNDERGROUND PRIMARY FEEDER TO CHILDREN'S MUSEUM (FIELD VERIFY EXACT LOCATION).
 - ③ EXISTING PGE UNDERGROUND PRIMARY FEEDER TO ZOO NORTH SERVICE.
 - ④ EXISTING PGE UNDERGROUND PRIMARY FROM NORTH.
 - ⑤ PROVIDE UNDERGROUND 5" PRIMARY CONDUIT PER PGE STANDARDS.
 - ⑥ PROVIDE 8" X 8" TRANSFORMER PAD PER PGE REQUIREMENTS FOR PGE 480Y/277V-3PH-4W SECONDARY PAD-MOUNTED TRANSFORMER.
 - ⑦ PROVIDE VANDAL-RESISTANT WEATHERPROOF ABOVE-GRADE RECEPTACLE. SEE DETAIL.
 - ⑧ PROVIDE IN-GROUND HANDHOLE. SEE DETAIL 1/E3.1.
 - ⑨ RECONNECT RELOCATED DIGITAL SIGN - EXTEND CIRCUITING AND DATA AS REQUIRED. VERIFY LOCATION.



METRA INC. Consulting Engineers
2007 S.E. Ash St.
Portland, OR 97214
PHN: (503) 234-0548
FAX: (503) 234-0877
CONTACT: Rob Connell

PORTLAND PARKS AND RECREATION
CARMEN RUBIO, Commissioner
ADENA LONG, Director

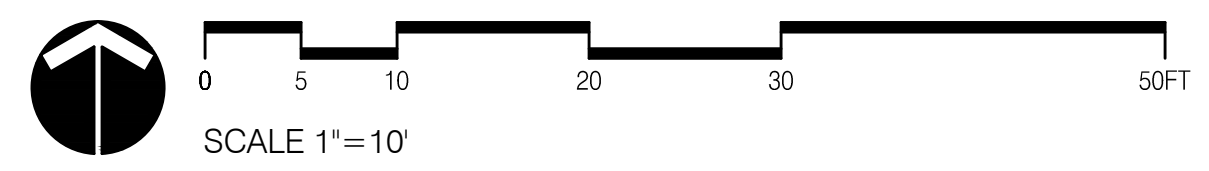
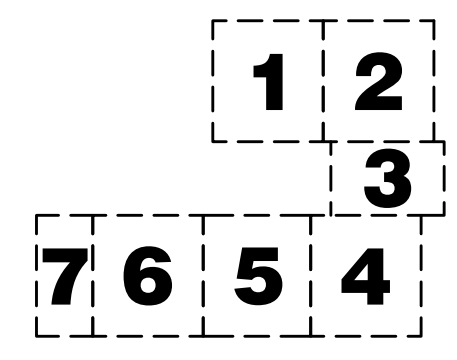
WASHINGTON PARK, SOUTH ENTRY
4033 SW CANYON RD. PORTLAND OR 97221
PROJECT MANAGER: TRAVIS RUYBAL, RLA (503) 823-5487

DATE: 09/15/21 SCALE: AS SHOWN DRAWN BY: SECTION: NORTHWEST

REVISIONS		
DATE	DESCRIPTION	BY

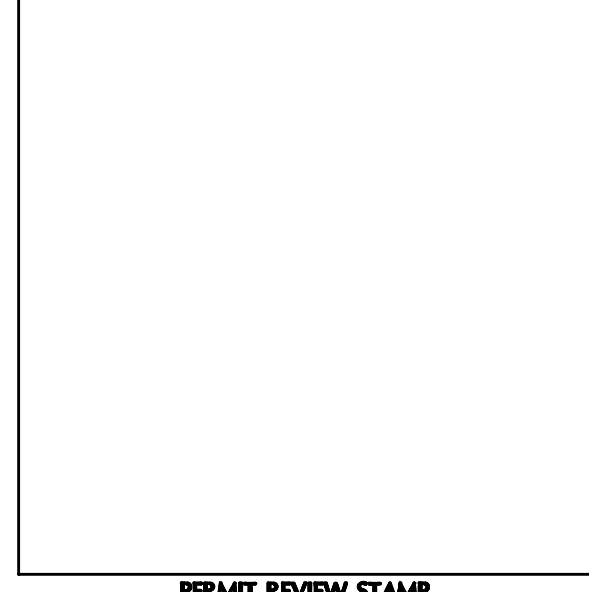
SITE PLAN AREA 4 - ELECTRICAL

E2.4

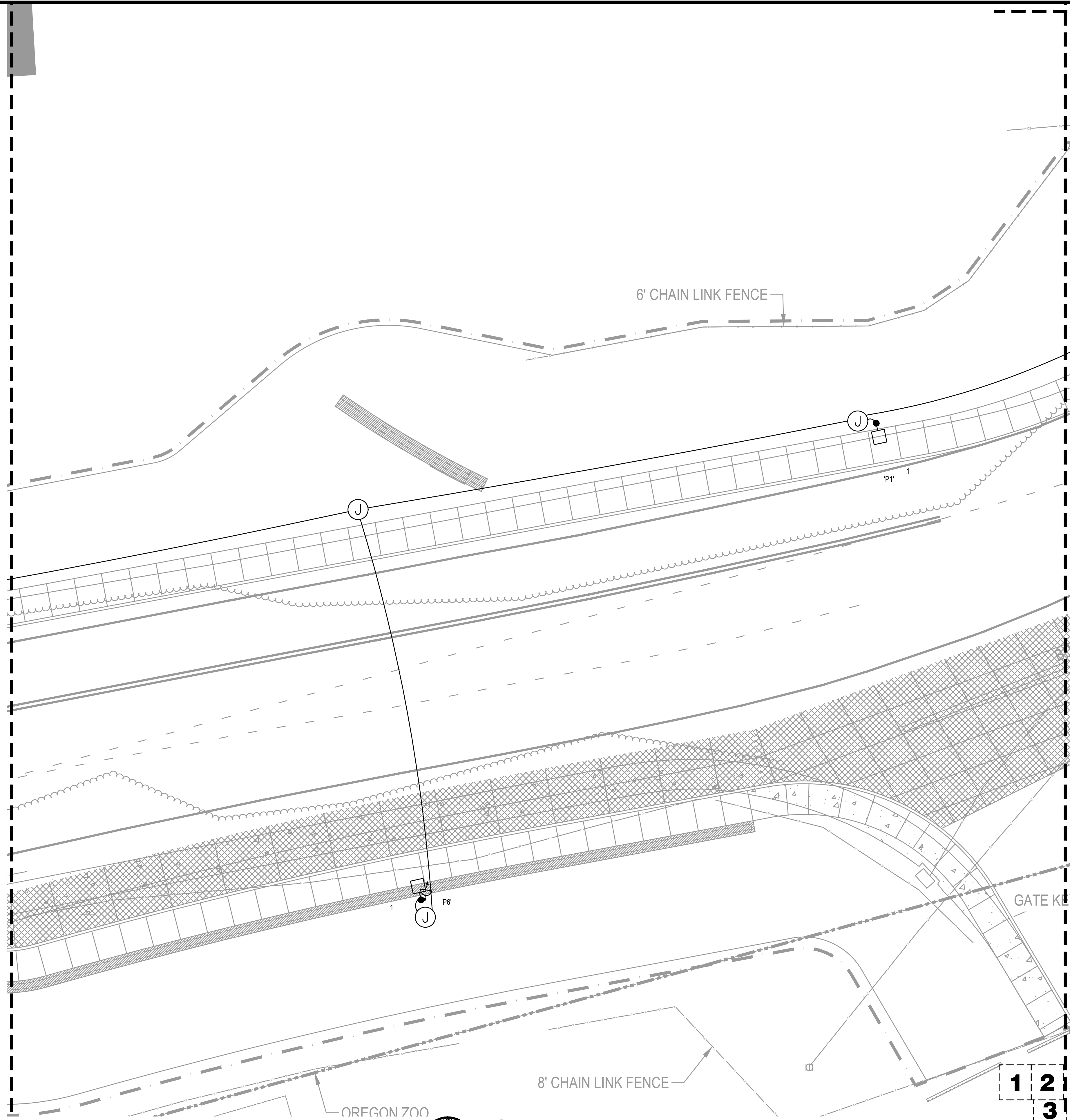


1 SITE PLAN AREA 4 - ELECTRICAL
E2.4 SCALE: 1" = 10'

PERMIT SET



DRAWING SET SCALE: IF THIS BAR DOES NOT MEASURE, INCH IN LENGTH, THE SCALE INDICATED THROUGHOUT THIS SET IS NOT ACCURATE. VERIFY SCALE PRIOR TO USING DRAWINGS.



KEYED NOTES - SITE

- ① EXISTING PGE PRIMARY VAULT (FIELD VERIFY EXACT LOCATION).
- ② EXISTING PGE UNDERGROUND PRIMARY FEEDER TO CHILDREN'S MUSEUM (FIELD VERIFY EXACT LOCATION).
- ③ EXISTING PGE UNDERGROUND PRIMARY FEEDER TO ZOO NORTH SERVICE.
- ④ EXISTING PGE UNDERGROUND PRIMARY FROM NORTH.
- ⑤ PROVIDE UNDERGROUND 5" PRIMARY CONDUIT PER PGE STANDARDS.
- ⑥ PROVIDE 8' X 8' TRANSFORMER PAD PER PGE REQUIREMENTS FOR PGE 480Y/277V-3PH-4W SECONDARY PAD-MOUNTED TRANSFORMER.
- ⑦ PROVIDE VANDAL-RESISTANT WEATHERPROOF ABOVE-GRADE RECEPTACLE. SEE DETAIL.
- ⑧ PROVIDE IN-GROUND HANDHOLE. SEE DETAIL 1/E3.1.
- ⑨ RECONNECT RELOCATED DIGITAL SIGN - EXTEND CIRCUITING AND DATA AS REQUIRED. VERIFY LOCATION.



METIA Consulting Engineers
2007 S.E. Ash St.
Portland, OR 97214
PHN: (503) 234-0548
FAX: (503) 234-0877
WWW.METIA-ENG.COM
CONTACT: Rob Connell

PORTLAND PARKS AND RECREATION
CARMEN RUBIO, Commissioner
ADENA LONG, Director

WASHINGTON PARK, SOUTH ENTRY
4033 SW CANYON RD. PORTLAND OR 97221
DATE: 09/15/21

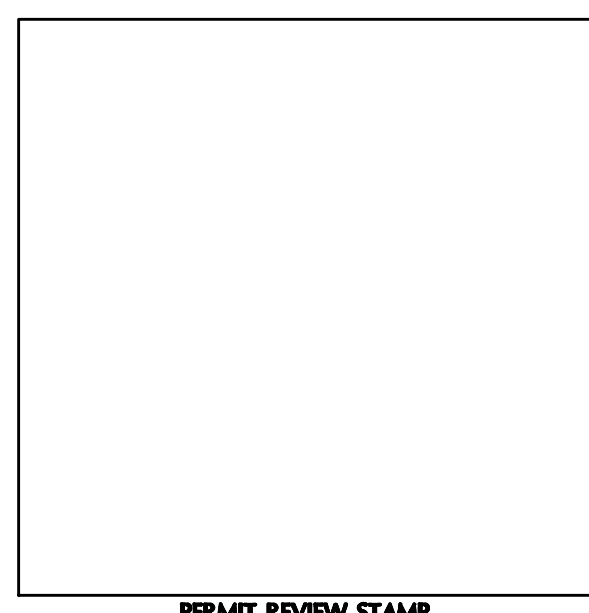
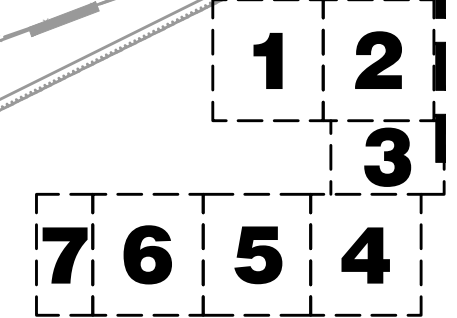
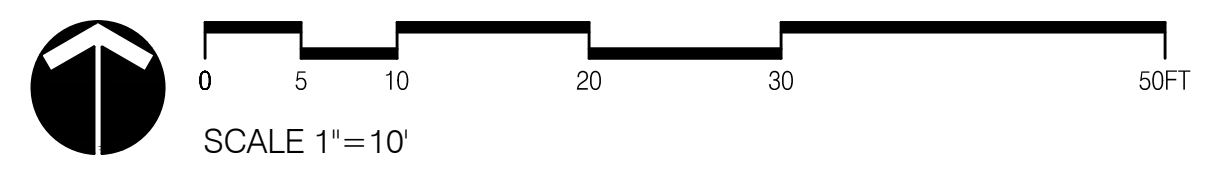
PROJECT MANAGER: TRAVIS RUYBAL, RLA (503) 823-5487
SCALE: AS SHOWN
DRAWN BY: SECTION: NORTHWEST

REVISIONS		
DATE	DESCRIPTION	BY

SITE PLAN AREA 5 - ELECTRICAL

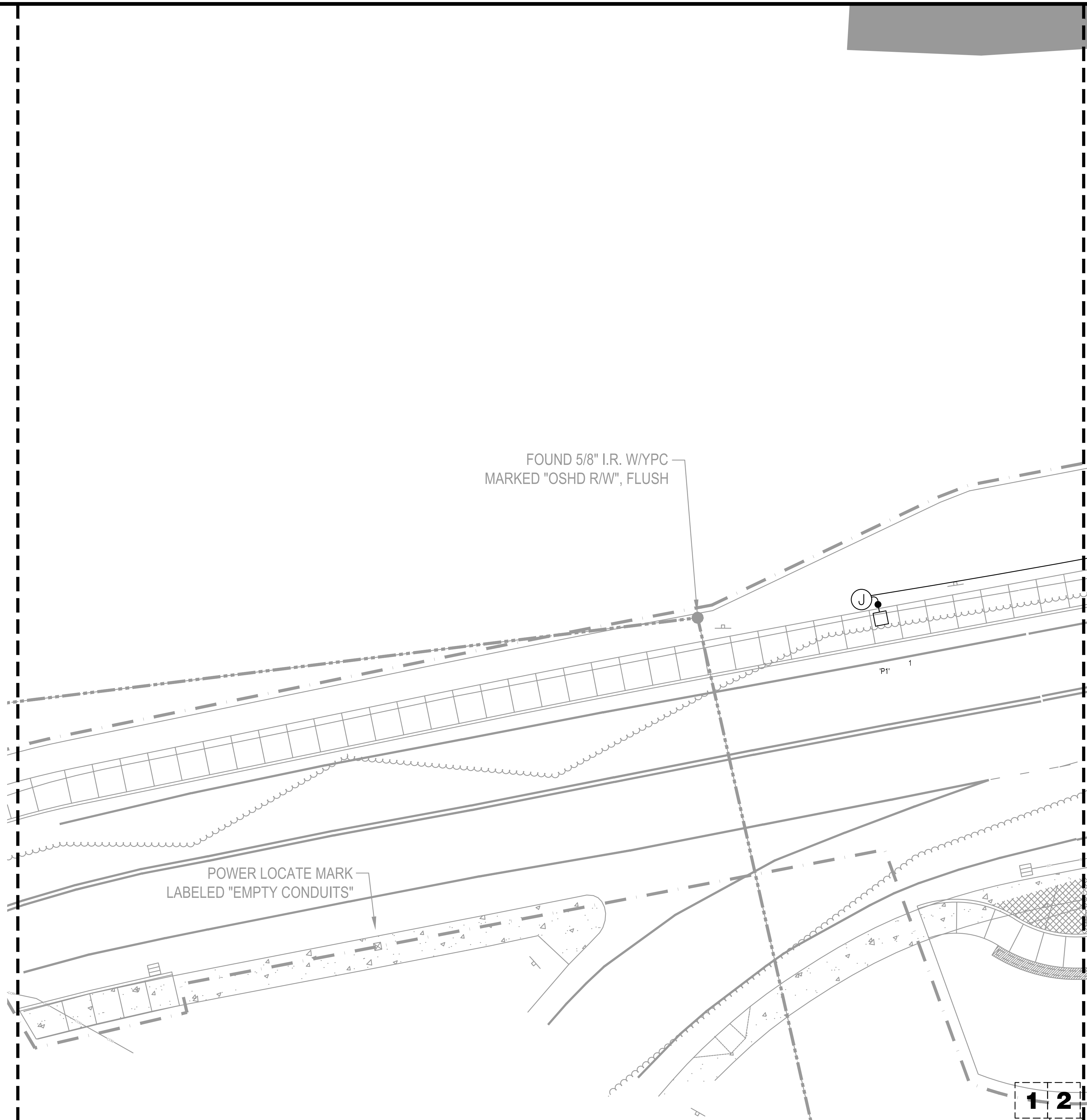
E2.5

1 SITE PLAN AREA 5 - ELECTRICAL
E2.5 SCALE: 1" = 10'



PERMIT SET

DRAWING SET SCALE:
IF THIS BAR DOES NOT MEASURE 1/4" IN LENGTH, THE SCALE INDICATED THROUGHOUT THIS SET IS NOT ACCURATE. VERIFY SCALE PRIOR TO USING DRAWINGS.



KEYED NOTES - SITE

- ① EXISTING PGE PRIMARY VAULT (FIELD VERIFY EXACT LOCATION).
- ② EXISTING PGE UNDERGROUND PRIMARY FEEDER TO CHILDREN'S MUSEUM (FIELD VERIFY EXACT LOCATION).
- ③ EXISTING PGE UNDERGROUND PRIMARY FEEDER TO ZOO NORTH SERVICE.
- ④ EXISTING PGE UNDERGROUND PRIMARY FROM NORTH.
- ⑤ PROVIDE UNDERGROUND 5" PRIMARY CONDUIT PER PGE STANDARDS.
- ⑥ PROVIDE 8' X 8' TRANSFORMER PAD PER PGE REQUIREMENTS FOR PGE 480Y/277V-3PH-4W SECONDARY PAD-MOUNTED TRANSFORMER.
- ⑦ PROVIDE VANDAL-RESISTANT WEATHERPROOF ABOVE-GRADE RECEPTACLE. SEE DETAIL.
- ⑧ PROVIDE IN-GROUND HANDHOLE. SEE DETAIL 1/E3.1.
- ⑨ RECONNECT RELOCATED DIGITAL SIGN - EXTEND CIRCUITING AND DATA AS REQUIRED. VERIFY LOCATION.



MET Consulting Engineers
2007 S.E. Ash St.
Portland, OR 97214
PHN: (503) 234-0548
FAX: (503) 234-0877
INC. WWW.MET-ENG.COM
CONTACT: Rob Connell

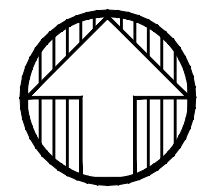
PORTLAND PARKS AND RECREATION
CARMEN RUBIO, Commissioner
ADENA LONG, Director

WASHINGTON PARK, SOUTH ENTRY
4033 SW CANYON RD. PORTLAND OR 97221
DATE: 09/15/21
SCALE: AS SHOWN
DRAWN BY: SECTION: NORTHWEST

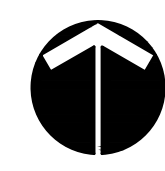
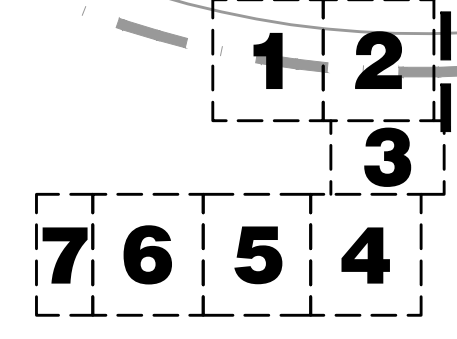
REVISIONS		
DATE	DESCRIPTION	BY

SITE PLAN AREA 5 - ELECTRICAL

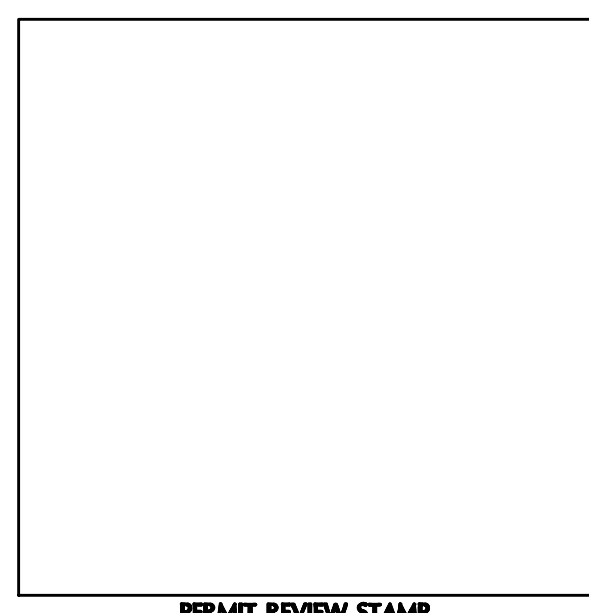
E2.5



1 SITE PLAN AREA 6 - ELECTRICAL
E2.6 SCALE: 1" = 10'

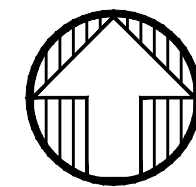
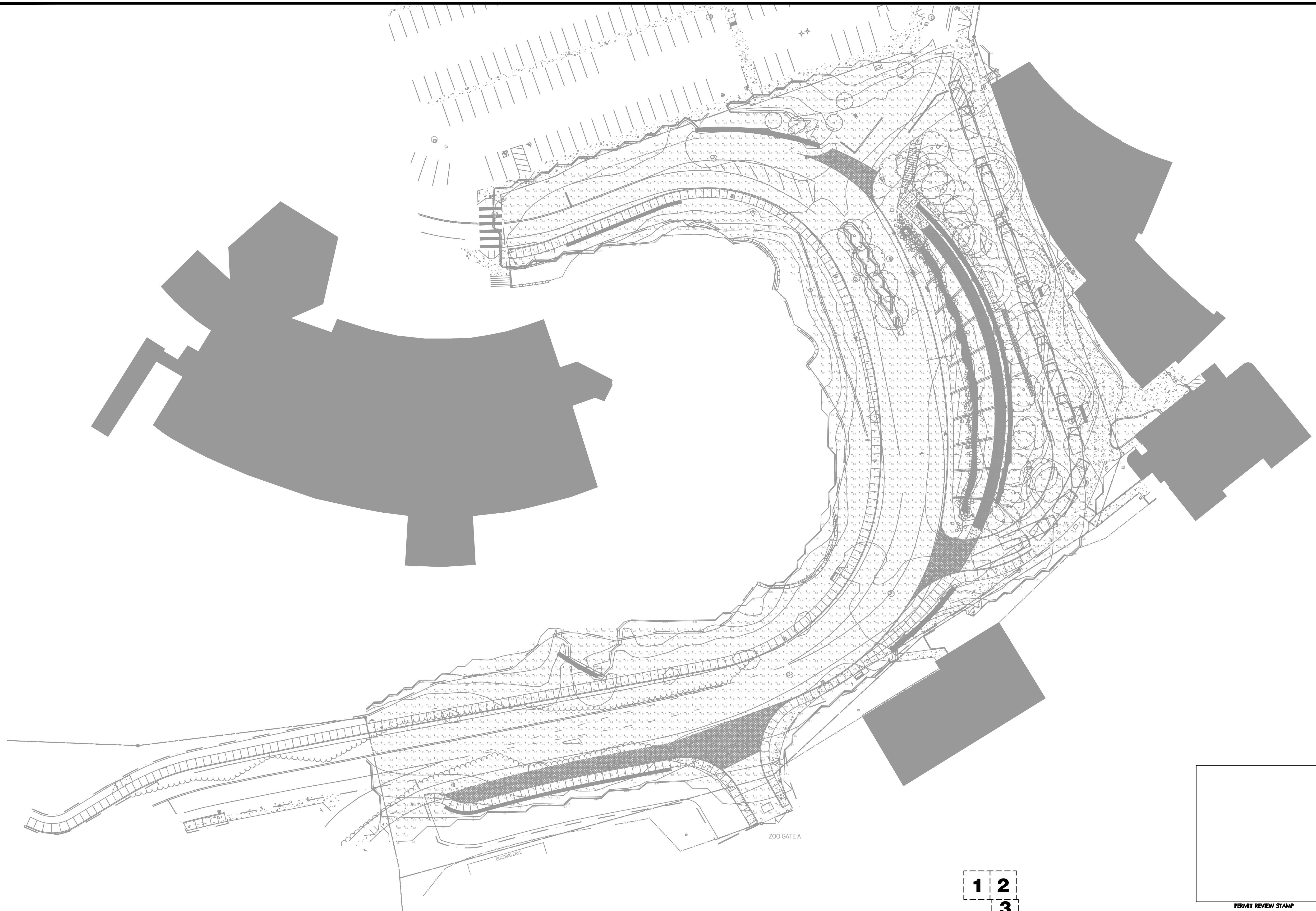


0 5 10 20 30 50 FT
SCALE 1" = 10'



PERMIT SET

ONE INCH
DRAWING SET SCALE
IF THIS BAR DOES NOT MEASURE, PUNCH IN LENGTH, THE SCALE INDICATED THROUGHOUT THIS SET IS NOT ACCURATE. VERIFY SCALE PRIOR TO USING DRAWINGS.



1
E2.7

SITE PLAN OVERALL - PHOTOMETRICS
SCALE: 1" = 30'

1 2
3
7 6 5 4



0 5 10 20 30 50 FT
SCALE 1" = 10'

PERMIT REVIEW STAMP

PORTLAND PARKS & RECREATION
Healthy Parks, Healthy Portland



METIA INC. Consulting Engineers
2007 S.E. Ash St.
Portland, OR 97214
PHN: (503) 234-0548
FAX: (503) 234-0877
WWW.METIA-ENG.COM
CONTACT: Rob Connell

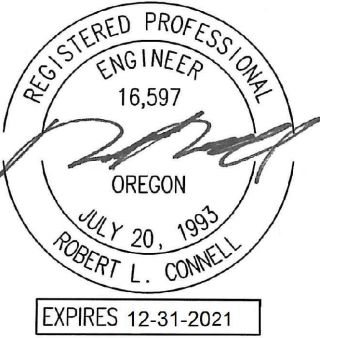
PORTLAND PARKS AND RECREATION
CARMEN RUBIO, Commissioner
ADENA LONG, Director
WASHINGTON PARK, SOUTH ENTRY
4033 SW CANYON RD. PORTLAND OR 97221
DATE: 09/15/21 SCALE: AS SHOWN
PROJECT MANAGER: TRAVIS RUYBAL, RLA (503) 823-5487
DRAWN BY: SECTION: NORTHWEST

REVISIONS		
DATE	DESCRIPTION	BY

SITE PLAN OVERALL - PHOTOMETRICS

E2.7

PERMIT SET



METIA Consulting Engineers
2007 S.E. Ash St.
Portland, OR 97214
PHN: (503) 234-0548
FAX: (503) 234-0877
INC. WWW.METIA-ENG.COM
CONTACT: Rob Connell

PORTLAND PARKS AND RECREATION
CARMEN RUBIO, Commissioner
ADENA LONG, Director

WASHINGTON PARK, SOUTH ENTRY
4033 SW CANYON RD. PORTLAND OR 97221
PROJECT MANAGER: TRAVIS RUYBAL, RLA (503) 823-5487
DATE: 09/15/21
SCALE: AS SHOWN
DRAWN BY: SECTION: NORTHWEST

REVISIONS		
DATE	DESCRIPTION	BY

**ELECTRICAL
DETAILS**

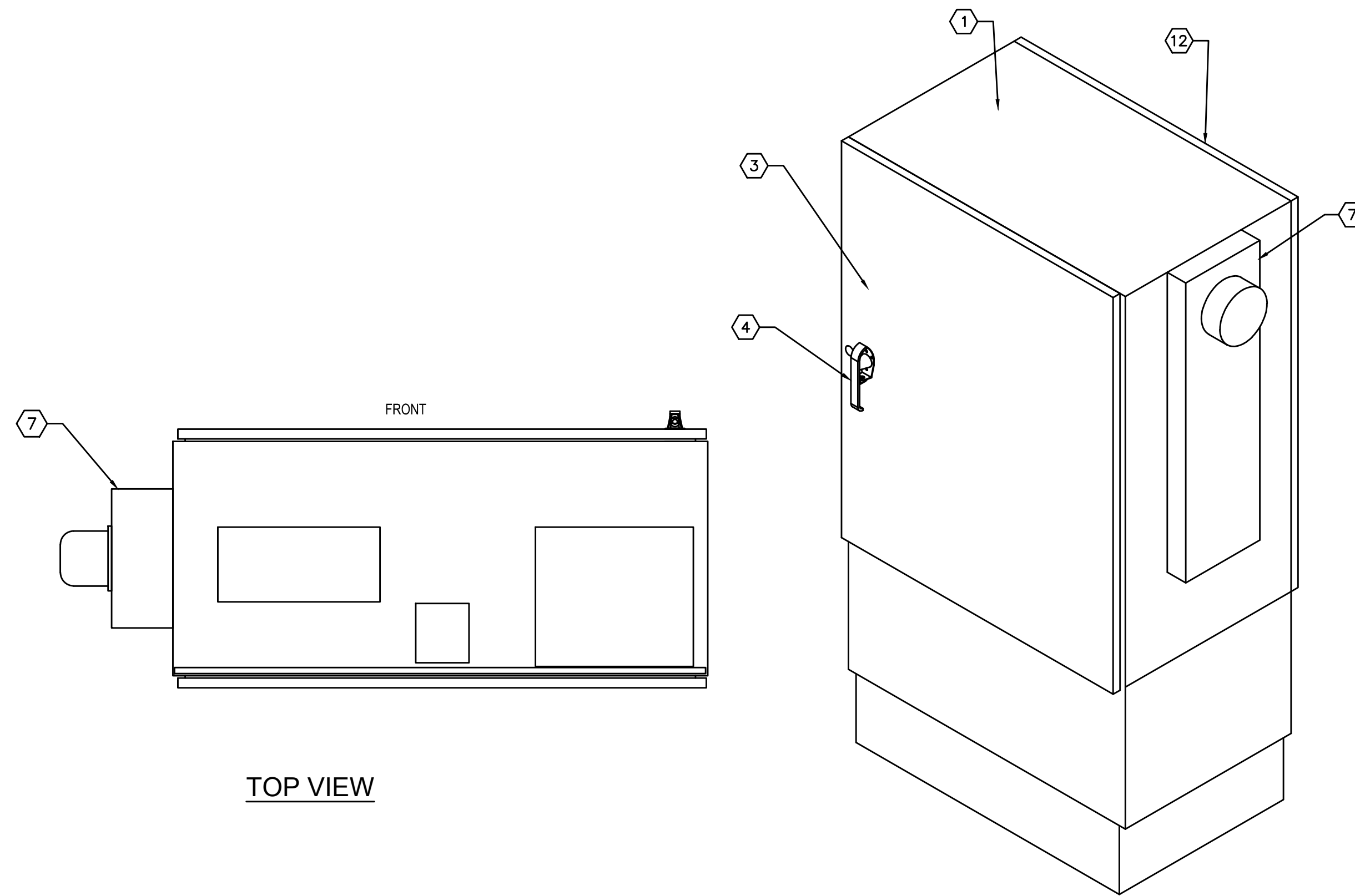
E3.0

NOTES THIS DETAIL

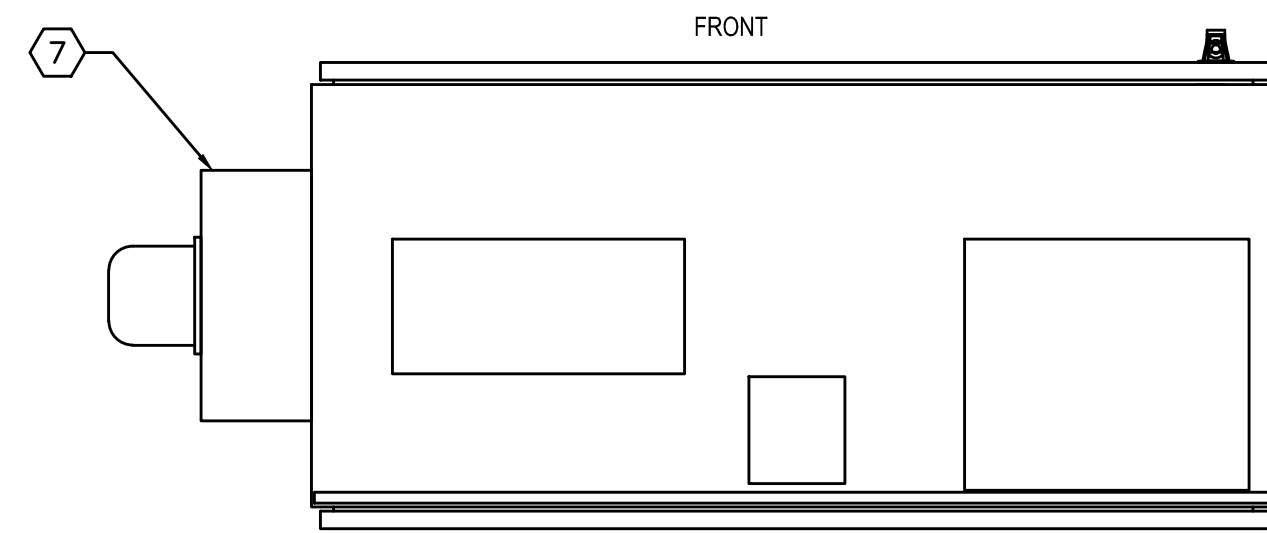
- ① ENCLOSURE BODY NEMA 3R, 12GA STAINLESS STEEL.
- ② 6 POLE CONTACTOR, 120/277 VOLT COIL
- ③ PANELBOARDS SECTION DOOR
- ④ 73NS PAD LOCKABLE HANDLES
- ⑤ SS LOUVER WITH A FILTER KIT
- ⑥ 4" FAN 120V, HOFFMAN SA4AXFN
- ⑦ METER BASE 124 TB 100A, COMPLY WITH PGE EUSERC REQUIREMENTS
- ⑧ PANELBOARD '4P'. SEE PANEL SCHEDULE.
- ⑨ PANELBOARD '2P' WITH INTEGRAL TRANSFORMER.
- ⑩ DEDICATED 20AMP/1P 120V QUAD RECEPTACLE, GFI, SURFACE MOUNTED.
- ⑪ PLYWOOD BACKBOARD.
- ⑫ STATIONARY BACK OF CABINET
- ⑬ WATER FEATURE SMARTFLOW LOGIC CONTROLLER, 120V.

GENERAL NOTES

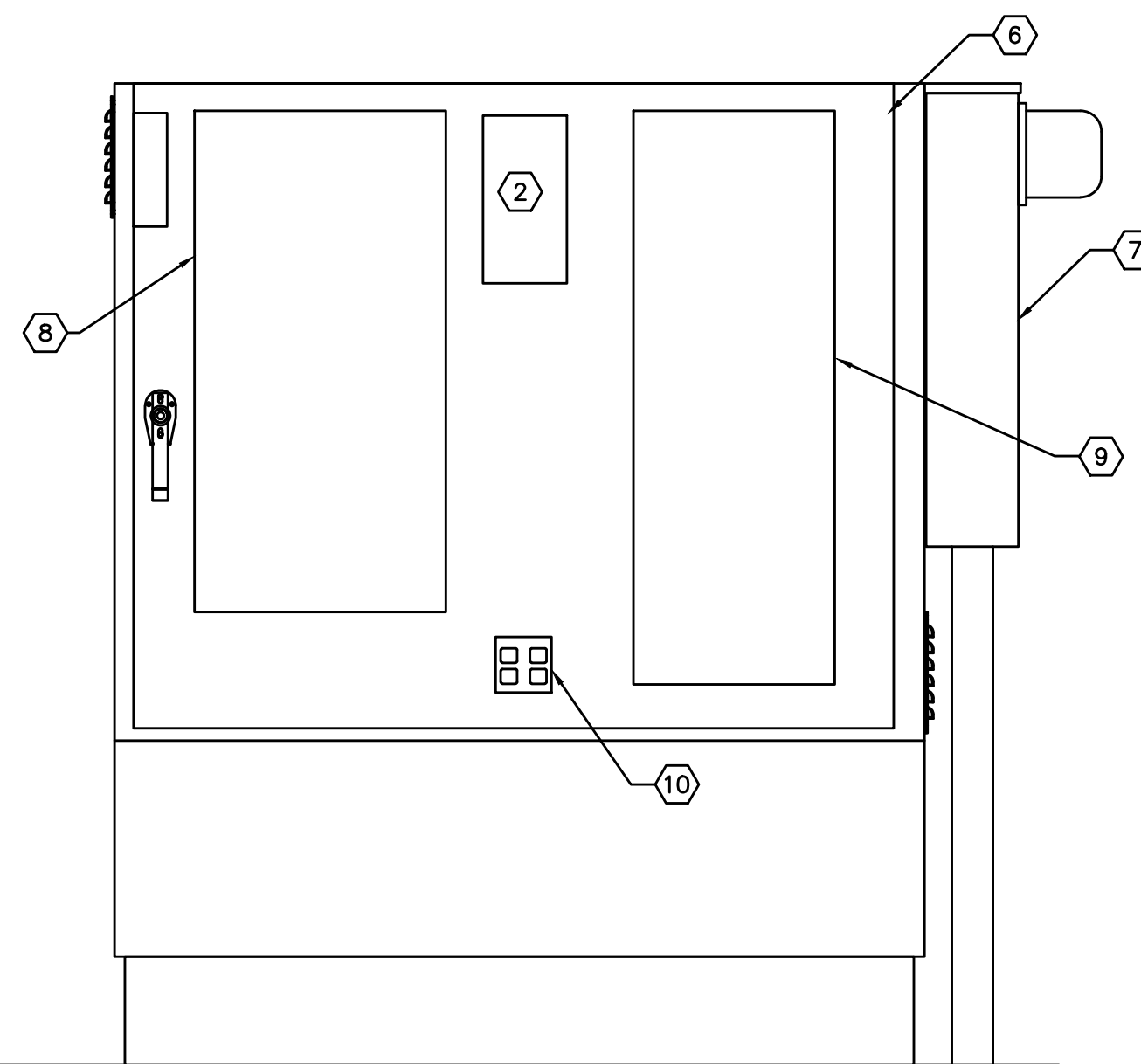
- 1. CABINET SHALL BE RATED, BRACED, MOUNTED AND INSTALLED TO CONFORM TO THE STATE AND LOCAL SEISMIC RATING FOR THE SPECIFIC LOCATION.
- 2. COORDINATE PLACEMENT CLEARANCE AND ORIENTATION WITH LANDSCAPE DRAWINGS
- 3. INTERNAL RACEWAY NOT SHOWN FOR CLARITY.
- 4. ELECTRICAL ENCLOSURE WILL HOUSE METER BASE, ELECTRICAL PANEL, BREAKERS, TIME CLOCK, FANS, 6 POLE CONTACTOR, RECEPTACLES. CONTRACTOR PROVIDED.



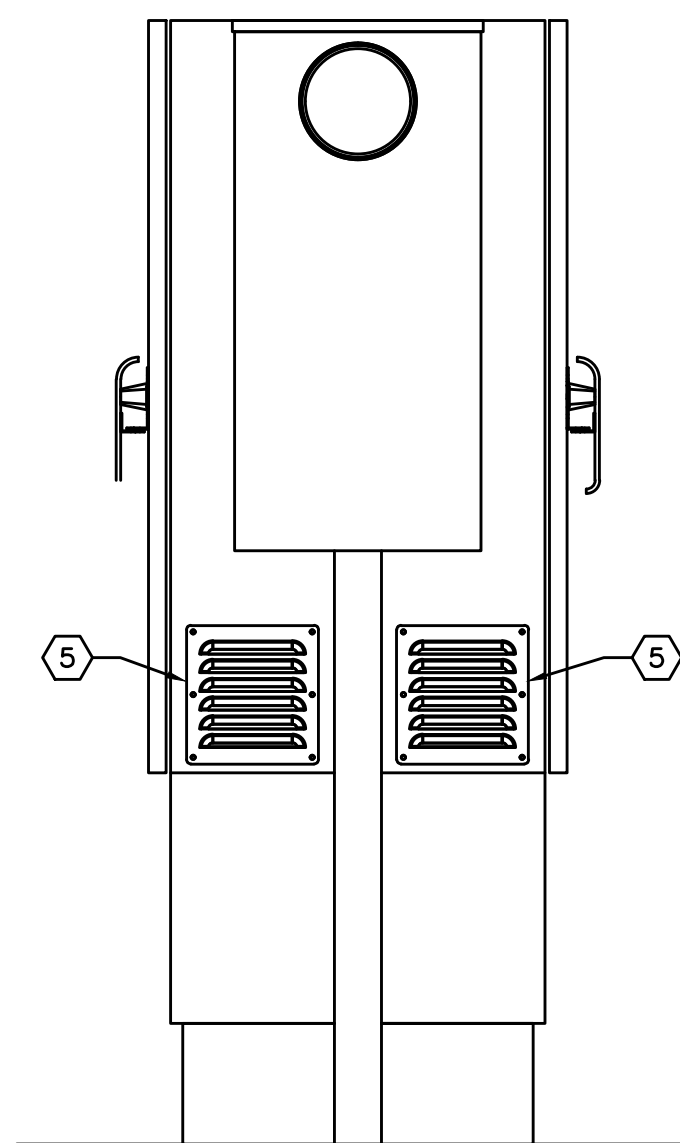
ISOMETRIC VIEW



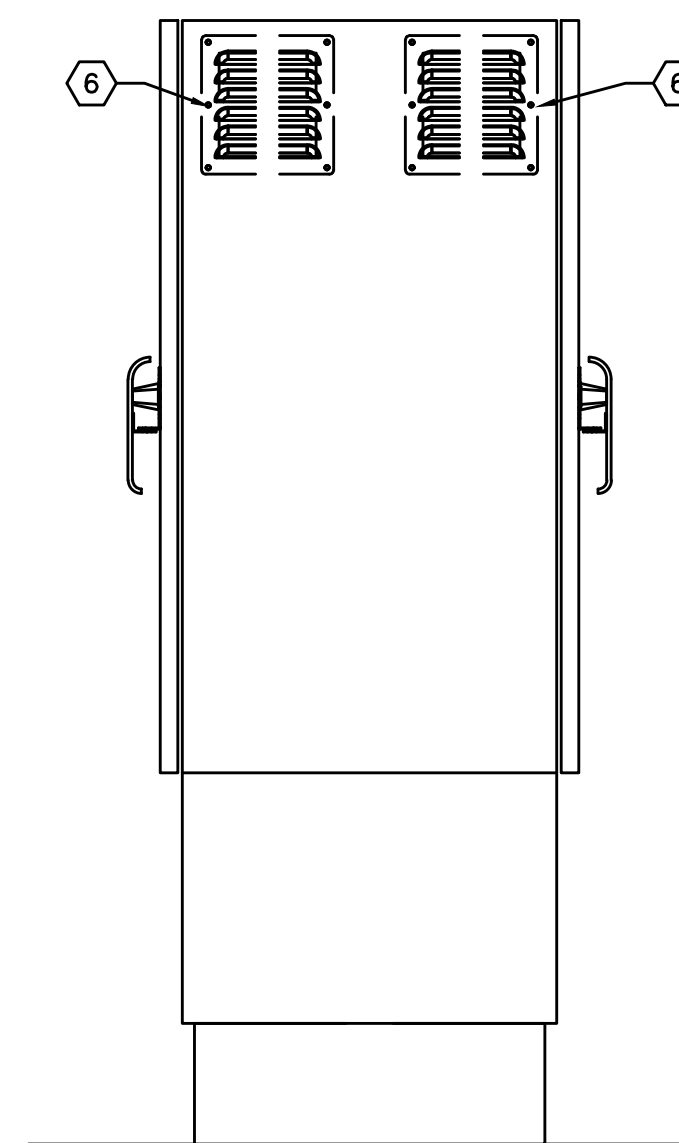
TOP VIEW



FRONT ELEVATION

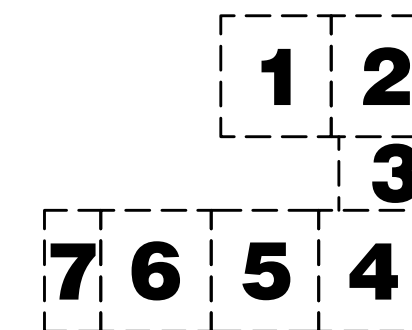


RIGHT ELEVATION

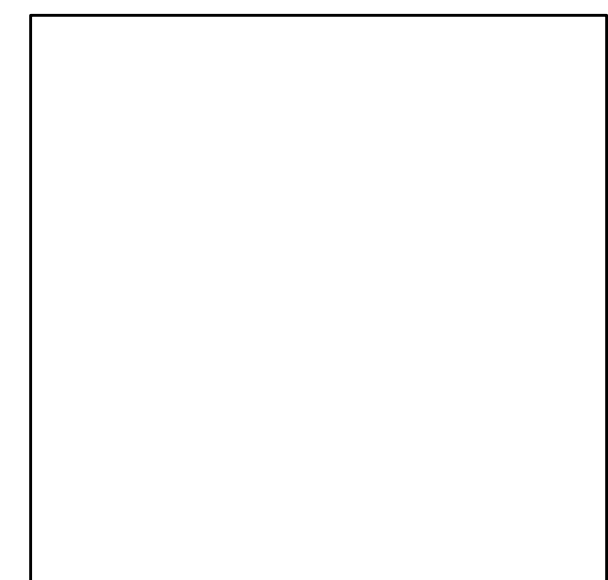


LEFT ELEVATION

1 SERVICE CABINET DETAILS
E3.0 NTS



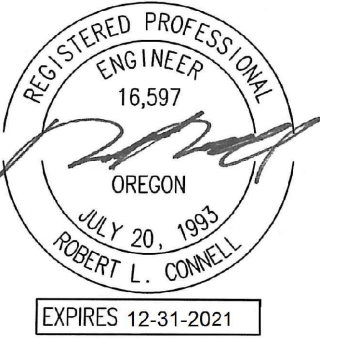
SCALE 1"=10'



PERMIT REVIEW STAMP

DRAWING SET SCALE: 1"=10' THIS BAR DOES NOT MEASURE. INCH IN LENGTH. THE SCALE INDICATED THROUGHOUT THIS SET IS NOT ACCURATE. VERIFY SCALE PRIOR TO USING DRAWINGS.

PERMIT SET



MFA Consulting Engineers
2007 S.E. Ash St.
Portland, OR 97214
PHN: (503) 234-0548
FAX: (503) 234-0877
WWW.MFA-ENG.COM
CONTACT: Rob Connell

PORTLAND PARKS AND RECREATION
CARMEN RUBIO, Commissioner
ADENA LONG, Director

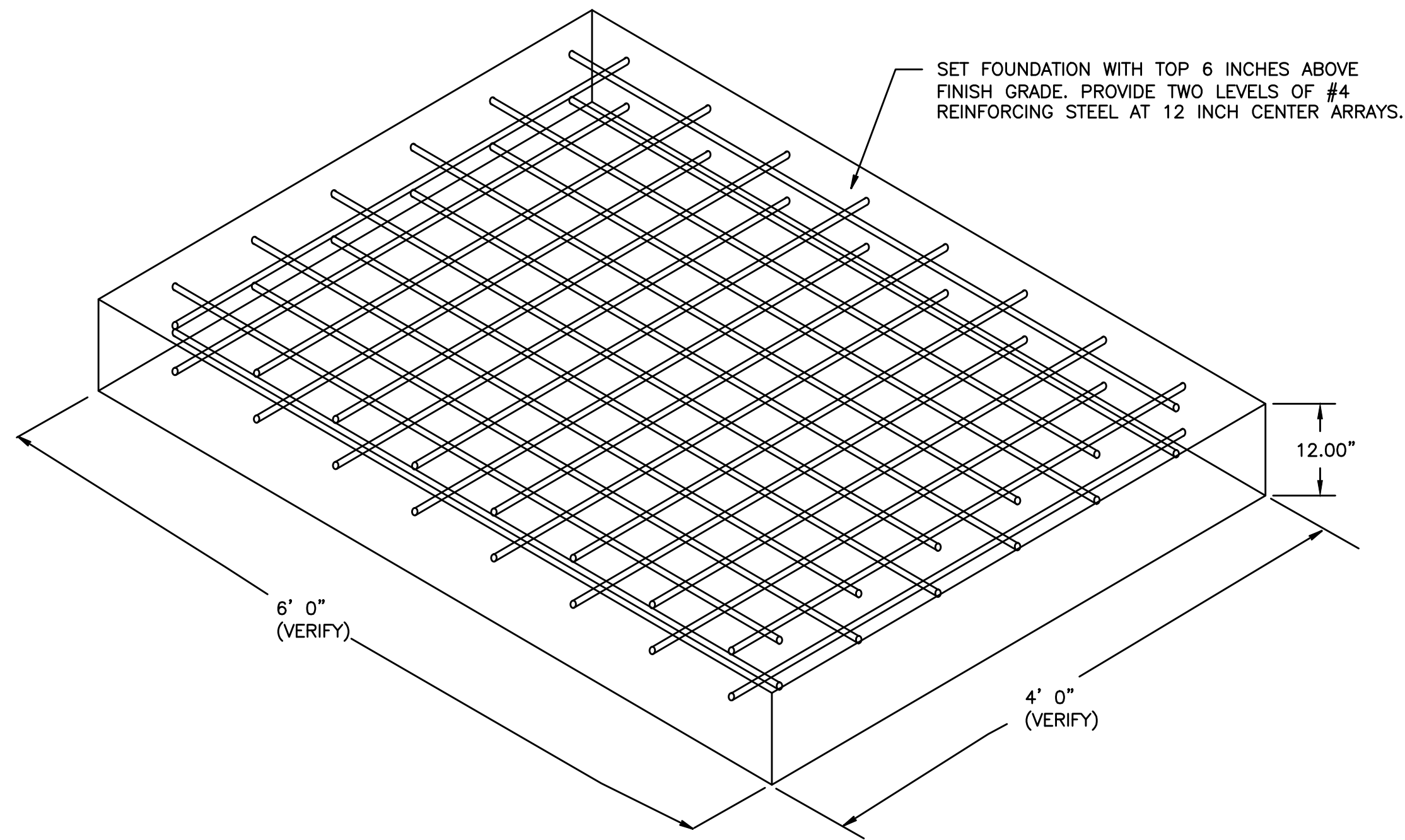
WASHINGTON PARK, SOUTH ENTRY
4033 SW CANYON RD. PORTLAND OR 97221

DATE: 09/15/21 SCALE: AS SHOWN DRAWN BY: SECTION: NORTHWEST

REVISIONS		
DATE	DESCRIPTION	BY

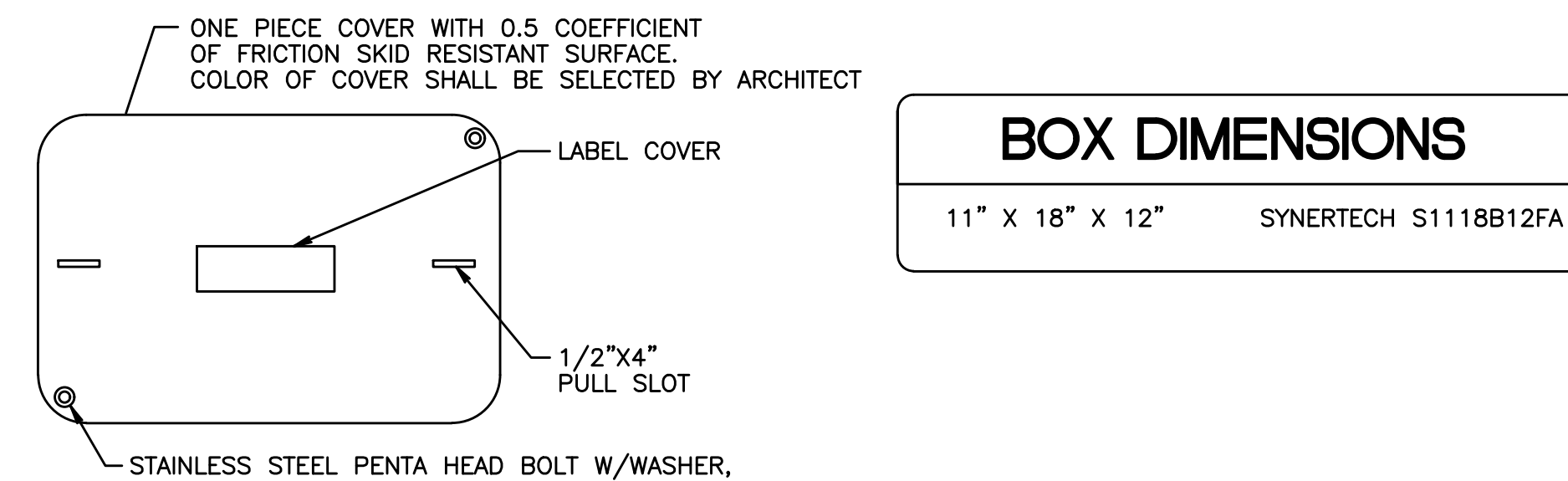
**ELECTRICAL
DETAILS**

E3.1



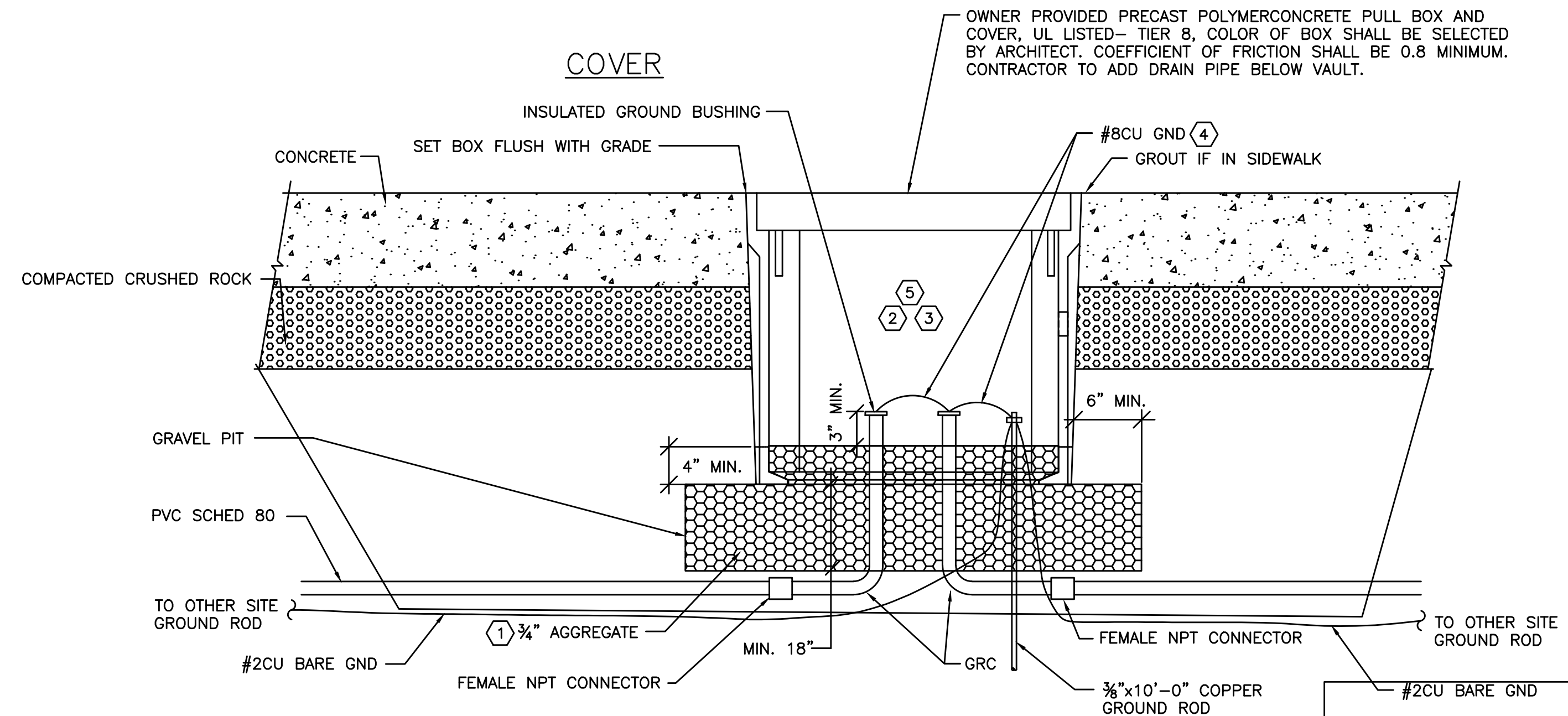
4 SERVICE CABINET FOUNDATION
E3.1 NTS

3 ABOVE GRADE RECEPTACLE CABINET
E3.1 NTS



BOX DIMENSIONS

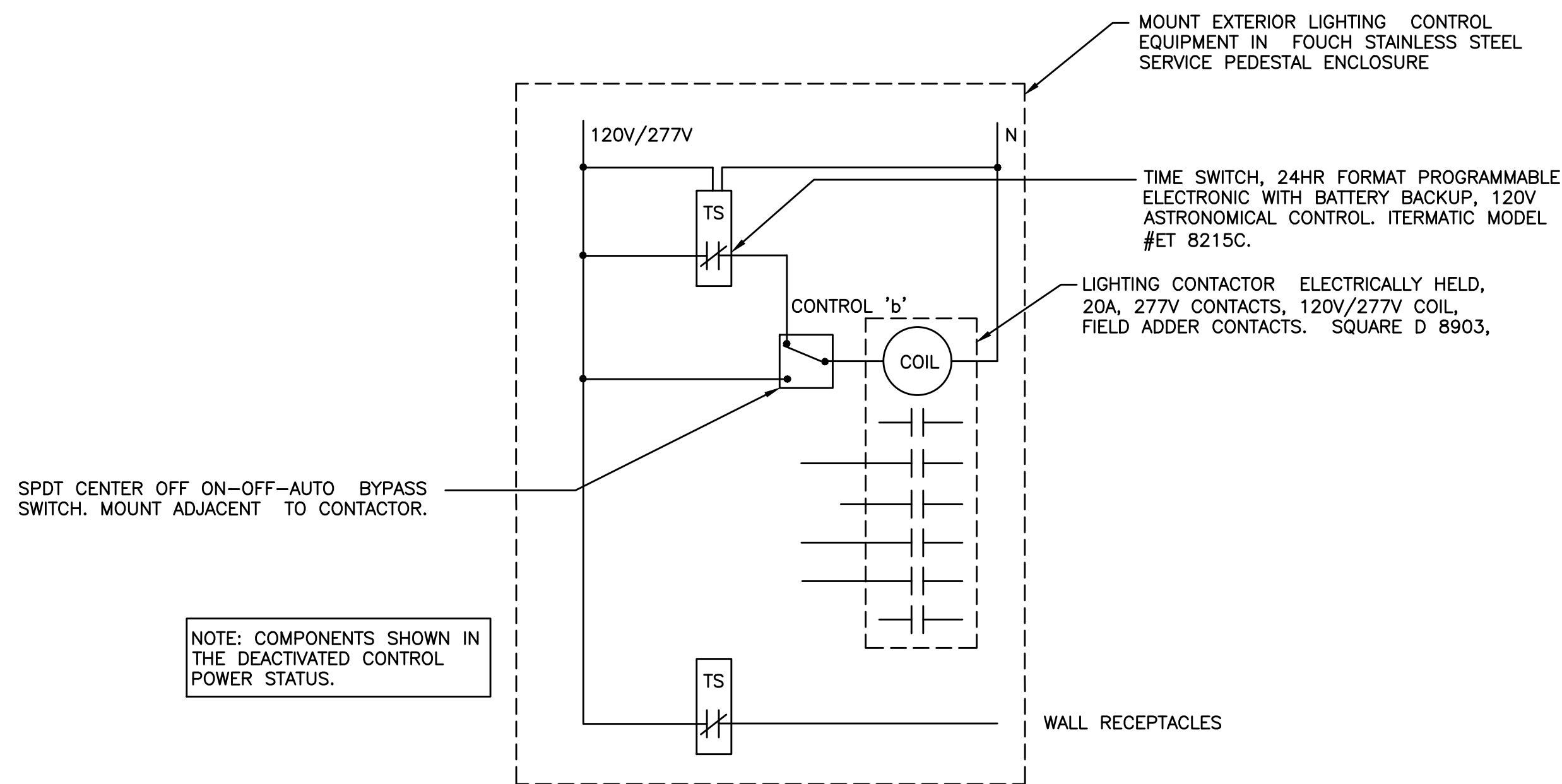
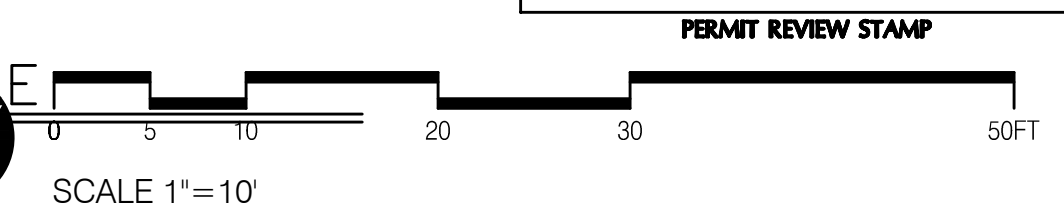
11" X 18" X 12" SYNERTECH S1118B12FA



NOTE THIS DETAIL:

- INSTALL ON 3/4" AGGREGATE WHICH SHALL EXTEND A MINIMUM OF 6" BEYOND ALL SIDES OF BOX AND BE A MINIMUM OF 18" DEEP, BELOW THE BOX.
- COORDINATE DRILLING OF BOX WITH MANUFACTURER PRIOR TO DRILLING. DRILLED CONDUIT HOLES SHALL NOT EXCEED 26% PER MANUFACTURER'S INSTRUCTIONS.
- SYNERTECH HANDHOLE. SEE "BOX DIMENSIONS" FOR HANDHOLE TYPE AND DIMENSIONS (TIER 8). PROVIDE CUSTOM COLOR IN BID. ADD DRAIN PIPE BELOW VAULT.
- BOND CIRCUIT GROUND CONDUCTOR AT EACH HANDHOLE.
- MATERIALS USED FOR SPLICING AND TERMINATIONS MUST BE APPROVED FOR DAMP/WET LOCATIONS.

1 FLUSH WITH GRADE HANDHOLE
E3.1 NTS



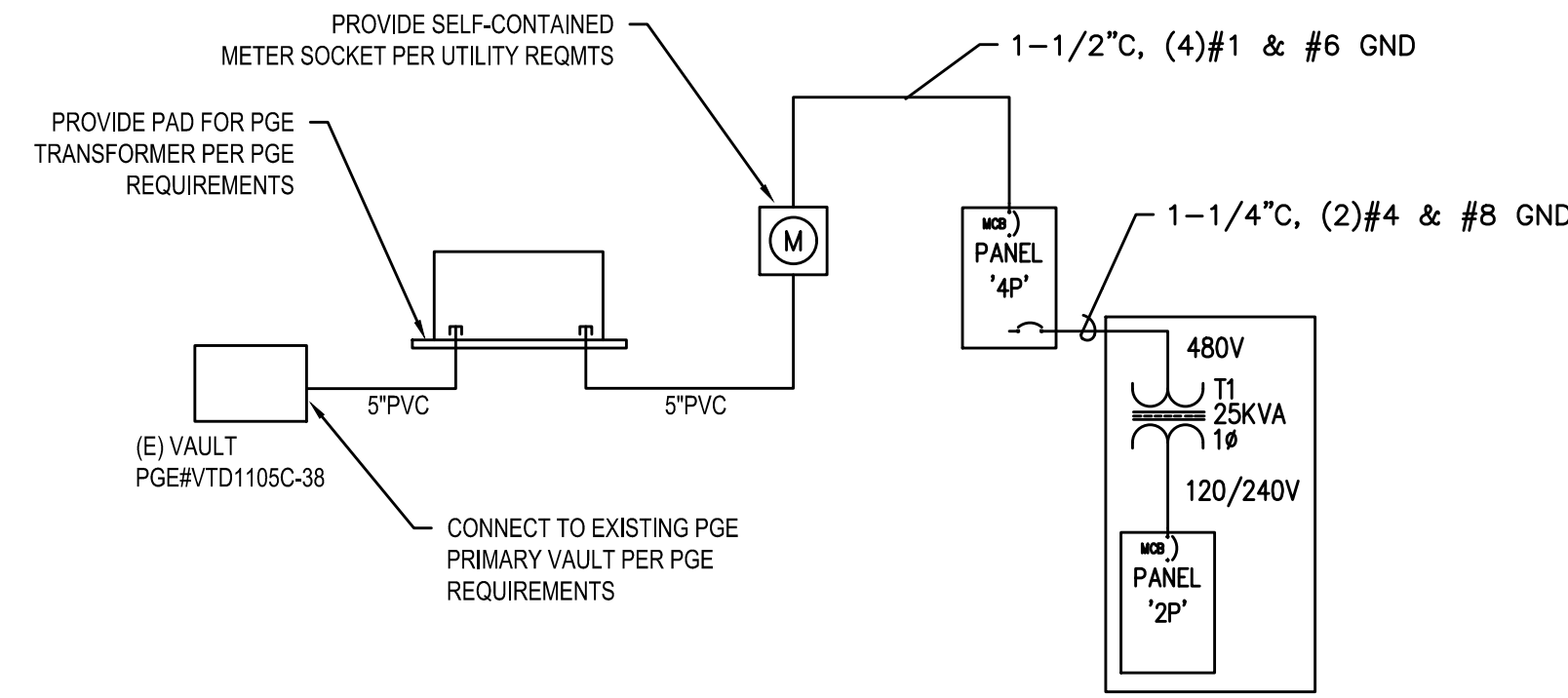
2 EXTERIOR LIGHTING CONTROL DIAGRAM
E3.1 NTS

DRAWING SET SCALE: IF THIS BAR DOES NOT MEASURE, INCH IN LENGTH, THE SCALE INDICATED THROUGHOUT THIS SET IS NOT ACCURATE. VERIFY SCALE PRIOR TO USING DRAWINGS.

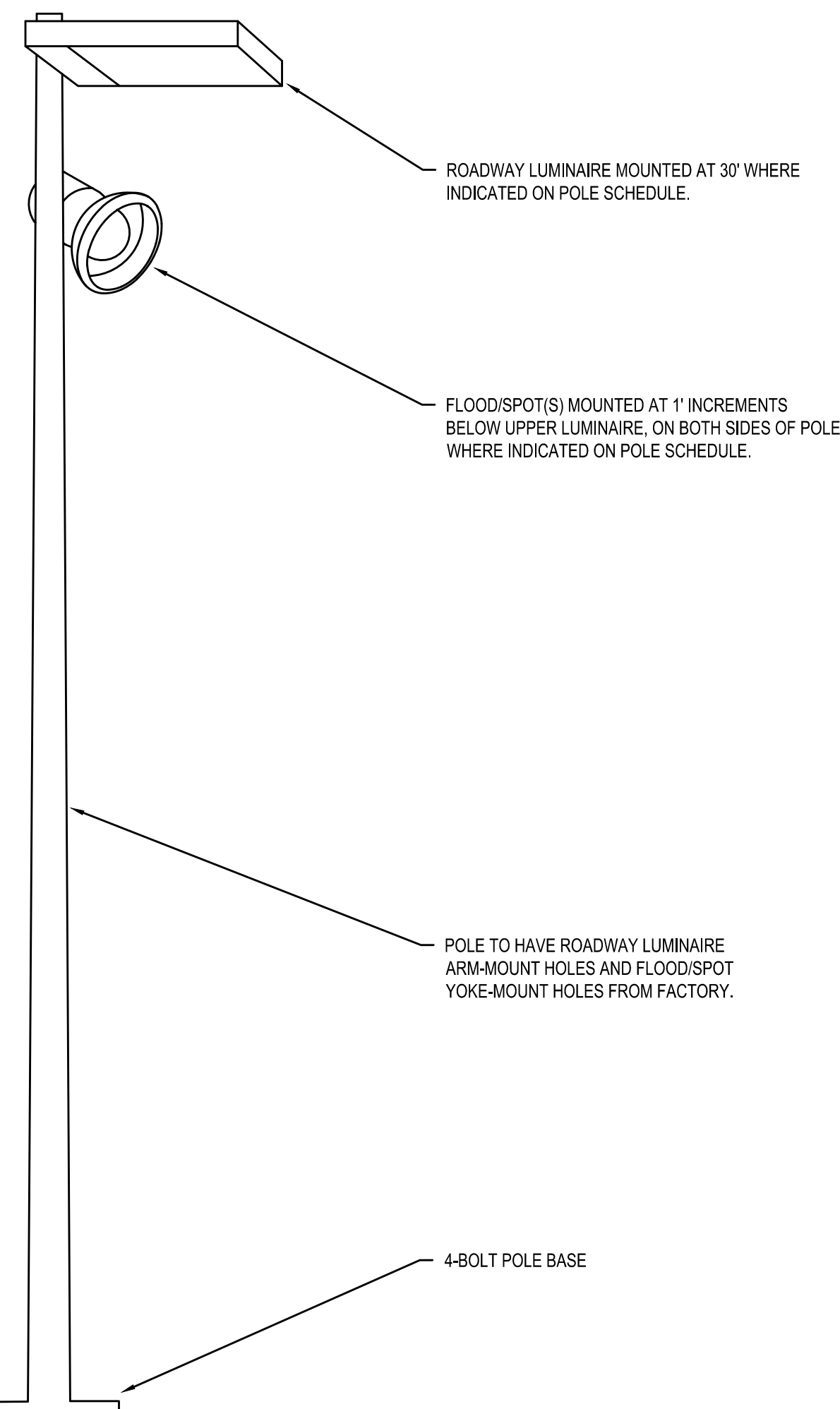
PERMIT SET

MFIA PANEL SCHEDULE												
panel 4A		mounting SURFACE			location CABINET			connected load amps			11	
voltage 480Y/277V		phase 3			bus & main 100A MCB			calculated load amps			11	
C	service	va	a/p	no.	a b c	no.	a/p	va	service	C		
1	LTS - ROADWAY	1500	20/1	1	*	2			FUTURE PKG LOT LTS			
1	LTS - PATHWAY	60	20/1	3	*	4			FUTURE PKG LOT LTS			
1	LTS - WALL	800	20/1	5	*	6			FUTURE PKG LOT LTS			
	SPARE		20/1	7	*	8			FUTURE PKG LOT LTS			
	SPARE		20/1	9	*	10			FUTURE PKG LOT LTS			
	SPARE		20/1	11	*	12			FUTURE PKG LOT LTS			
				13	*	14			FUTURE PKG LOT LTS			
				15	*	16			FUTURE PKG LOT LTS			
				17	*	18						
				19	*	20						
				21	*	22						
				23	*	24						
				25	*	26						
				27	*	28						
				29	*	30						
				31	*	32						
				33	*	34						
				35	*	36						
				37	*	38						
				39	*	40	60/2	3100	PANEL '2B'		7	
				41	*	42	*	3360	*		7	
Phase A		1500 VA	NOTES:			line-line voltage			480			
Phase B		3160 VA				largest motor (va)			0			
Phase C		4160 VA										
Total Connected		8820 VA										
load code:		ph. A	ph. B	ph. C	total	factor	calculated load (va)					
1. LIGHTS=		0	60	800 VA	2360	1.25	2950					
2. RECEPT.=		0	0	0 VA	0	1 + 0.5	0					
3. HEATING=		0	0	0 VA	0	1.00	0					
4. KITCHEN=		0	0	0 VA	0	1.00	0					
5. EQUIP.=		0	0	0 VA	0	1.00	0					
6. MOTORS=		0	0	0 VA	0	*	0					
7. MISC=		0	3100	3360 VA	6460	1.00	6460					
(* 125% of the largest motor + 100% of the balance)					TOTAL =			9410				

MFIA PANEL SCHEDULE												
panel 2A		mounting Surface			location CABINET			connected load			15-Sep-21	
voltage 120/240V		phase 1			bus & main 100A MCB			calculated load			27	
C	service	va	a/p	no.	L1 L2	no.	a/p	va	service	C		
2	REC - NORTH WALL	1500	20/1	1	*	2	20/1		SPARE			
2	REC - MID WALL	1500	20/1	3	*	4	20/1		SPARE			
2	REC - MID WALL	1500	20/1	5	*	6			BLANK			
2	REC - SOUTH WALL	1500	20/1	7	*	8			BLANK			
5	IRRIGATION CONTROLLER	100	20/1	9	*	10			BLANK			
2	REC - CABINET	360	20/1	11	*	12			BLANK			
Line 1		3100 VA	NOTES:			line-line voltage			240			
Line 2		3360 VA				largest motor (va)			0			
Total Connected		6460 VA										
load code:		line 1	line 2		total	factor	calculated load (va)					
1. LIGHTS=		0	0		VA	1.25	0					
2. RECEPT.=		3000	3360		6360	1 + 0.5	6360					
3. HEATING=		0	0		VA	1.00	0					
4. KITCHEN=		0	0		VA	1.00	0					
5. EQUIP.=		100	0		VA	100	1.00	100			0	
6. MOTORS=		0	0		VA	*	0					
7. SUB-PANEL=		0	0		VA	1.00	0					
(* 125% of the largest motor + 100% of the balance)					TOTAL =			6460				



3 ONE-LINE DIAGRAM
E3.2 480Y/277V-3PH-4W



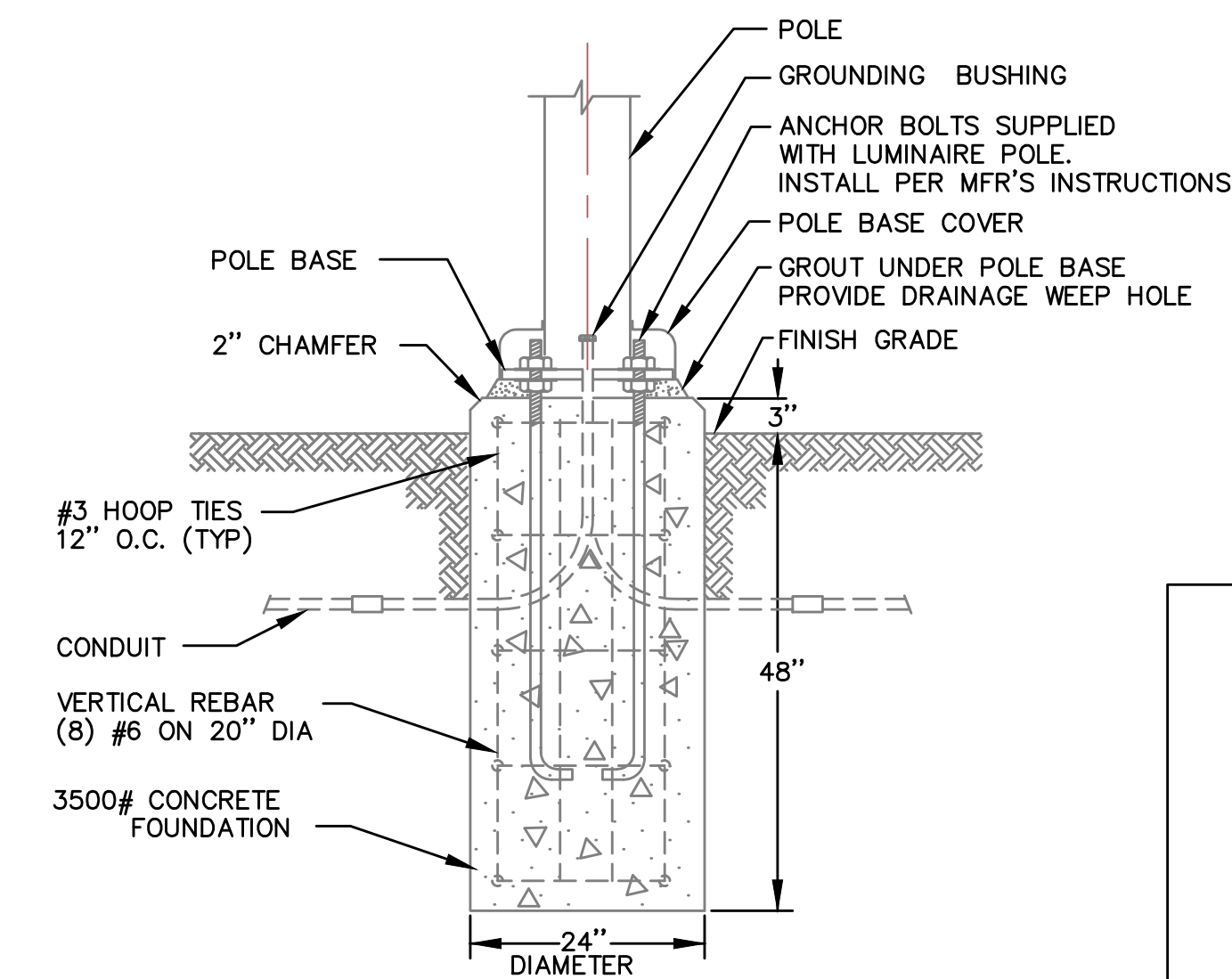
2 DUAL-USE POLE DETAIL
E3.2 NTS

LIGHT FIXTURE SCHEDULE

- R1 SINGLE-HEAD ROADWAY/PARKING LOT LED FIXTURE, ARM-MOUNTED, TYPE 2 DISTRIBUTION, 13100 LUMENS, 135W, 277V. COOPER "PREVAIL" SERIES OR APPROVED.
- R2 SINGLE-HEAD ROADWAY/PARKING LOT LED FIXTURE, ARM-MOUNTED, TYPE 2 DISTRIBUTION, 7100 LUMENS, 75W, 277V. COOPER "PREVAIL" SERIES OR APPROVED.
- F1 15" DEEP X 12" DIAMETER YOKE-MOUNT LED FLOOD LIGHT, TYPE HFL (HORIZONTAL FLOOD) DISTRIBUTION, 5000 LUMENS, 55W, 277V. HYDREL "TPS2" SERIES.
- S1 15" DEEP X 12" DIAMETER YOKE-MOUNT LED SPOT LIGHT, TYPE HSP (HORIZONTAL SPOT) DISTRIBUTION, 4400 LUMENS, 45W, 277V. HYDREL "TPS2" SERIES.
- Z1 31" DIAM REFLECTIVE DISK POLE-TOP FIXTURE, TYPE V DISTRIBUTION, 1742 LUMENS, 20W, 277V. BEGA #77-208

LIGHT POLE SCHEDULE

- P1 31' ALUMINUM ROUND TAPERED POLE WITH SINGLE TYPE 'R1' LUMINAIRE ARM-MOUNTED AT 30'. VALMONT OR APPROVED.
- P2 31' ALUMINUM ROUND TAPERED POLE WITH SINGLE TYPE 'R2' LUMINAIRE ARM MOUNTED AT 30'. VALMONT OR APPROVED.
- P3 31' ALUMINUM ROUND TAPERED POLE WITH SINGLE TYPE 'R2' LUMINAIRE ARM MOUNTED AT 30', (2) TYPE 'F1' LUMINAIRES YOKE-MOUNTED AT 29', AND (1) TYPE 'F1' LUMINAIRE YOKE-MOUNTED AT 28'. VALMONT OR APPROVED.
- P4 31' ALUMINUM ROUND TAPERED POLE WITH (2) TYPE 'F1' LUMINAIRES YOKE-MOUNTED AT 30', AND (1) TYPE 'F1' LUMINAIRE YOKE-MOUNTED AT 29'. VALMONT OR APPROVED.
- P5 31' ALUMINUM ROUND TAPERED POLE WITH (2) TYPE 'F1' LUMINAIRES YOKE-MOUNTED AT 30'. VALMONT OR APPROVED.
- P6 31' ALUMINUM ROUND TAPERED POLE WITH SINGLE TYPE 'R2' LUMINAIRE ARM MOUNTED AT 30', AND (1) TYPE 'S1' LUMINAIRE YOKE-MOUNTED AT 29'. VALMONT OR APPROVED.
- P7 10' ROUND STEEL POLE WITH TYPE 'Z1' POST-TOP LUMINAIRE. BEGA.



1 LOW-POLE FOUNDATION
E3.2 NTS

SCALE 1"=10'



REVISIONS		
DATE	DESCRIPTION	BY

ELECTRICAL DETAILS

E3.2