TYPE

IXTURE STYLE

SCOPE OF WORK

LIGHT FIXTURE DESCRIPTION

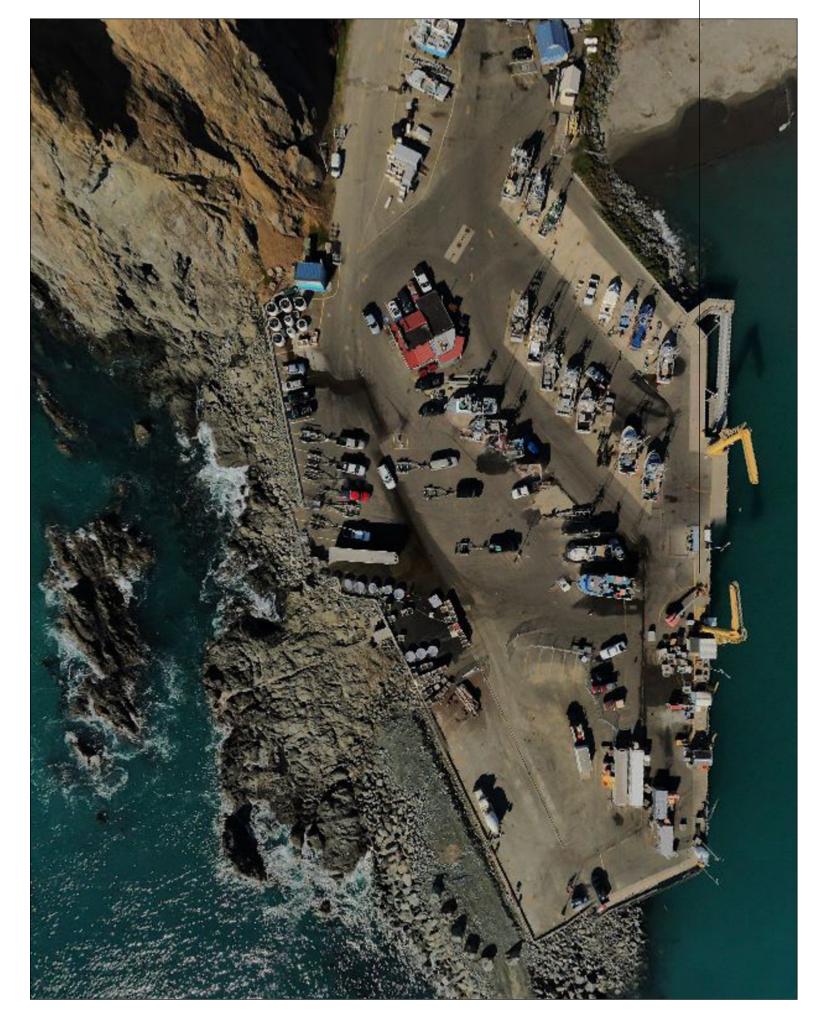
53.4 WATTS LED. 8,000 LUMENS, 4000K COLOR TEMPERATURE. 80CRI. 120 VOLTAGE. MARINE RATED. CAST & EXTRUDED ALUMINUM CONSTRUCTION WITH WHITE CORROSION RESISTANT FINISH AND

LITHONIA: FEX-L48-8000LM-FPFL-MD-120-GZ10-40K-80CRI-BE6WCP-SPD10KV-SBGR10-DWHXD CR

FLAT POLYCARBONATE FROSTED LENS, .125-INCH. STAINLESS STEEL HARDWARE. 0-10 DIMMING DRIVER. MEDIUM DISTRIBUTION. COLD WEATHER, 6W INTERNAL EMERGENCY DRIVER, -20-CELSIUS MINIMUM. 360-DEGREE LOW MOUNT SENSOR (8-15-FEET HEIGHT), ON/OFF OCCPANCY. 10kV SURGE PROTECTION

A SURFACE MOUNTED FIXTURE. 48-INCH LENGTH. 52.3-INCH OVERALL LENGTH WITH SENSORS.

DEVICE 120-277V. VERIFY FIXTURE WITH OWNER PRIOR TO PURCHASE.



PORT OF PORT ORFORD - Port Orford, Oregon

Google Maps Aerial Image - NTS



INDEX OF DRAWINGS:

E-100 ELECTRICAL COVER SHEET E-200 ELECTRICAL SITE PLANS E-300 ELECTRICAL DETAILS

E-400 ONE LINE POWER RISER DIAGRAM

SYMBOL SCHEDULE:

SURFACE MOUNTED FIXTURE WITH OUTLET 💝 WALL MOUNTED DUPLEX RECEPTACLE SPECIAL PURPOSE CONNECTION --- G--- GROUND CONDUCTOR NON-FUSED DISCONNECT ---- UNDERGROUND CONDUIT SYSTEM X DENOTES SHEET NUMBER ----- EXPOSED CONDUIT SYSTEM DENOTES BRANCH CIRCUIT "HOME RUN" - DENOTES GROUND CONDUIT SYSTEM STUB DOWN - DENOTES NEUTRAL - DENOTES PHASE/SWITCH LEG CONDUIT SEAL OFF

ABBREVIATIONS:

А	AMP	kCMIL	KILO CIRCLE MIL
AF	AMPERES FRAME	LCP	LIGHTING CONTROL PANEL
AFC	AVAILABLE FAULT CURRENT	LP	LIGHT POLE
AFG	ABOVE FINISHED GRADE	NTS	NOT TO SCALE
AP	ACCESS POINT	ОН	OVERHEAD
АТ	AMPERES TRIP	PE	PHOTO ELECTRIC DEVICE
AWG	AMERICAN WIRE GAUGE	P/N	PHASE AND/OR NEUTRAL
С	CONDUIT	Powr	POWER
DT	DRY TYPE	PVC	POLYVINYL CHLORIDE
(E)	EXISTING	TYP	TYPICAL
G	GROUND	V	VOLTS
GFCI	GROUND FAULT CIRCUIT INTERRUPTER	WP	WEATHERPROOF
kAIC	KILO AMPERE INTERRUPTER CURRENT	#XP, #XG	PHASE AND GROUND CABLE AWO



10N ORD 8

REPLACEMENT

CRANE

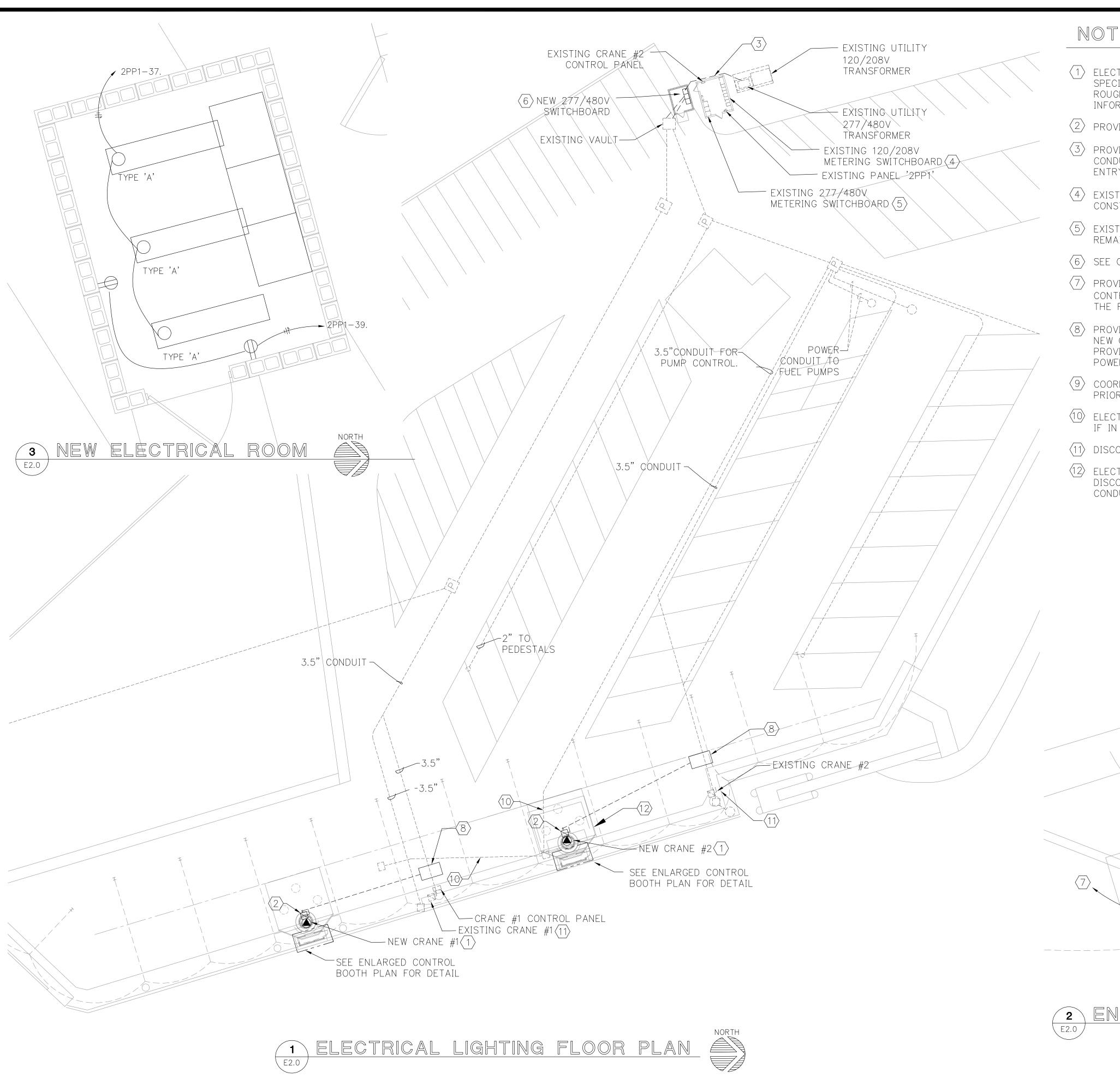


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APRIL 25, 2024

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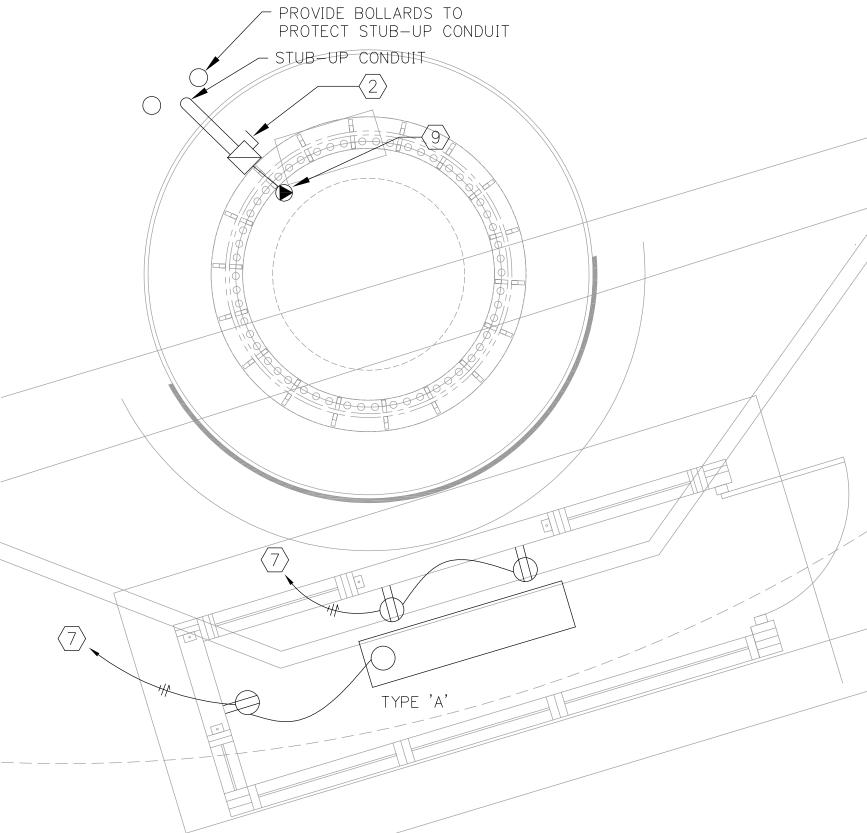
BEAVERTON, OREGON 97005 PH 503.521.7260, FX 503.521.7257



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NOTES THIS SHEET:

- ELECTRICAL CONTRACTOR TO COORDINATE AND REVIEW CRANE MANUFACTURER SPECIFICATIONS FOR EXACT CONNECTION ENTRY AND POWER REQUIREMENTS PRIOR TO ROUGH—IN. SEE ONE LINE POWER RISER DIAGRAM AND LOAD SUMMARY FOR POWER INFORMATION.
- $\langle 2 \rangle$ provide nema 4x stainless steel 400-ampere non-fused disconnect.
- PROVIDE TWO (2) 3—INCH PVC SCHEDULE 40 CONDUITS FOR UTILITY SECONDARY CONDUCTORS. COORDINATE WITH THE UTILITY FOR SPECIFIC REQUIREMENTS AND EXACT ENTRY TO THE EXISTING VAULT PRIOR TO ROUGH—IN.
- (4) EXISTING 120/208-VOLT METERING SWITCHBOARD TO REMAIN IN OPERATION DURING CONSTRUCTION.
- (5) EXISTING 277/480-VOLT SWITCHBOARD SERVING THE EXISTING TWO (2) CRANES TO REMAIN IN OPERATION AFTER CRANES ARE DISCONNECTED FROM THIS SYSTEM.
- (6) SEE ONE LINE POWER RISER DIAGRAM FOR NEW SWITCHBOARD INFORMATION.
- 7 PROVIDE TWO 120-VOLTS 20-AMPERES BRANCH CIRCUIT FROM EXISTING PANEL IN THE CONTROL OFFICE. ONE CIRCUIT FOR THE TWO (2) RECEPTACLES AND THE OTHER FOR THE RECEPTACLE AND THE LIGHT IN THE BOOTH.
- PROVIDE UNDERGROUND VAULT TO INTERCEPT EXISTING 3.5" CONDUIT AND EXTEND TO NEW CRANE LOCATION AS SHOWN. REMOVE EXISTING CONDUCTOR IN CONDUIT AND PROVIDE NEW CONDUCTOR FROM NEW SWITCHBOARD TO THE NEW CRANE. SEE ONE LINE POWER RISER DIAGRAM FOR FEEDER INFORMATION.
- (9) COORDINATE WITH CRANE MANUFACTURER FOR EXACT CRANE POINT OF CONNECTION PRIOR TO ROUGH-IN.
- (10) ELECTRICAL CONTRACTOR TO LOCATE EXISTING CONDUIT AND COORDINATE TO RELOCATE IF IN CONFLICT WITH NEW CRANE FOUNDATION.
- $\langle 11
 angle$ disconnect existing crane feeder and remove conductors back to the source.
- (12) ELECTRICAL CONTRACTOR TO COORDINATE WITH GENERAL CONTRACTOR FOR DISCONNECTING ALL POWER RELATED TO THE FUEL ISLAND DISPENSER. REMOVE ALL CONDUCTORS BACK TO THE SOURCE OF POWER.



2 ENLARGED CONTROL BOOTH PLAN
E2.0

ENGINEERING, INC. / CONSULTING ENGINEER 10700 S.W. BEAVERTON-HILLSDALE HWY, STE 6 BEAVERTON, OREGON 97005 PH 503.521.7260, FX 503.521.7257 PROJECT NUMBER: 23-050 CHECKED: PA APRIL 25, 2024 74353.000

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E-200 SHEET 16 OF 18

PBS Engineering a Environmental Inc 4412 S Corbett Ave Portland, OR 97238 503.248.1939 pbsusa.com

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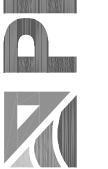
4353,000 PORT OF PORT ORFORD 50 TON CRANE SITE LOCATED IN THE CITY OF PORT ORFORD

NOTES THIS SHEET:

- 1) PROVIDE NEW 2' X 3' CONCRETE VAULT WITH STEEL COVER RATED FOR HEAVY TRAFFIC TO INTERCEPT EXISTING 3.5-INCH CONDUIT AND RE-ROUT TO THE NEW CRANE LOCATION. OLDCASTLE PRECAST 233-LA OR SIMILAR.
- (2) COORDINATE WITH CRANE MANUFACTURER FOR CRANE POWER REQUIREMENTS AND EXACT POINT OF CONNECTIONS PRIOR TO ROUGH-IN ANY CONDUIT OR INSTALL THE DISCONNECT.







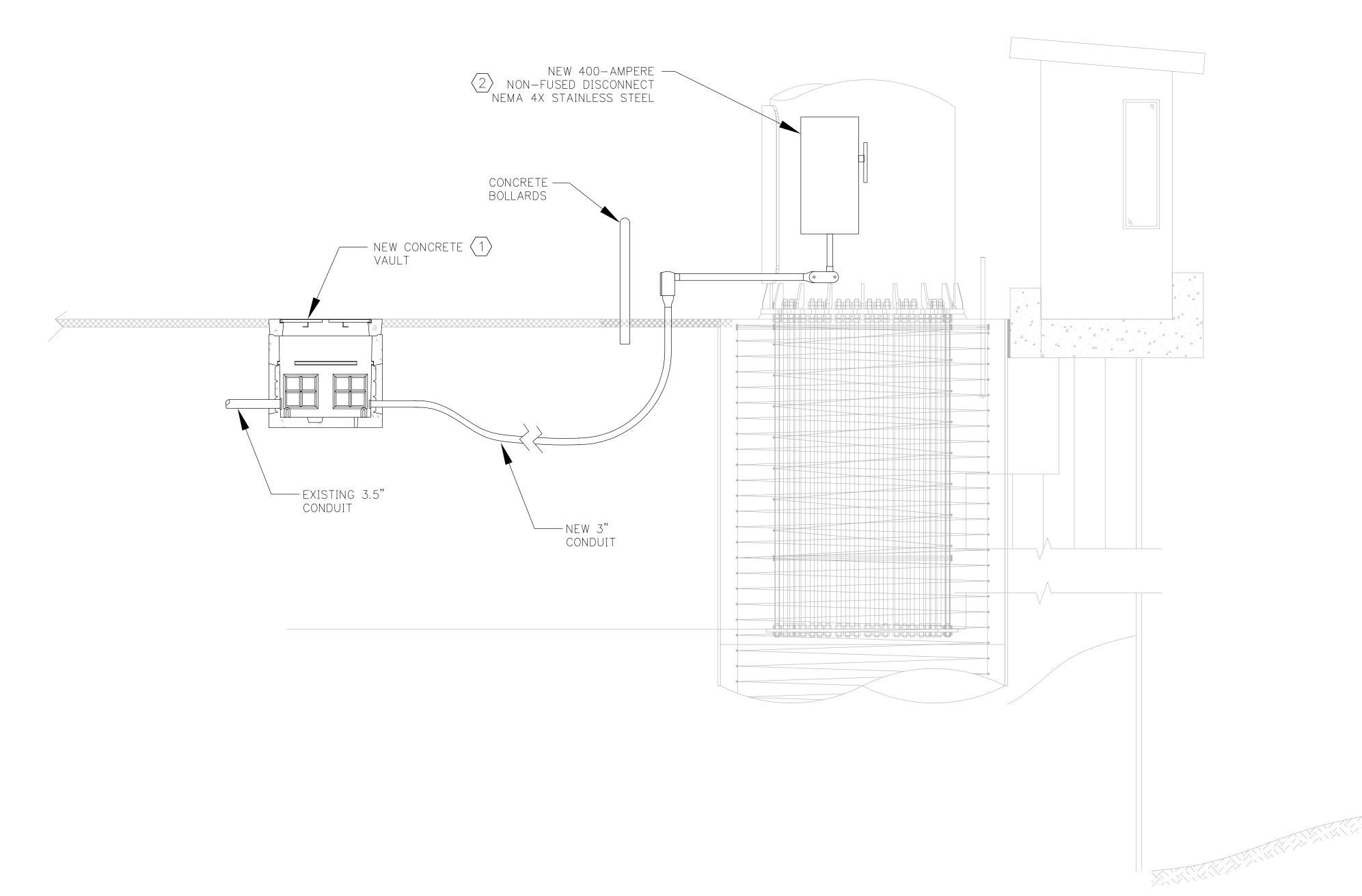
REPLACEMENT TON CRANE 20 PORT ORFORD Y OF PORT PORT ELECTRICAL DETAILS 74353,000 PORT

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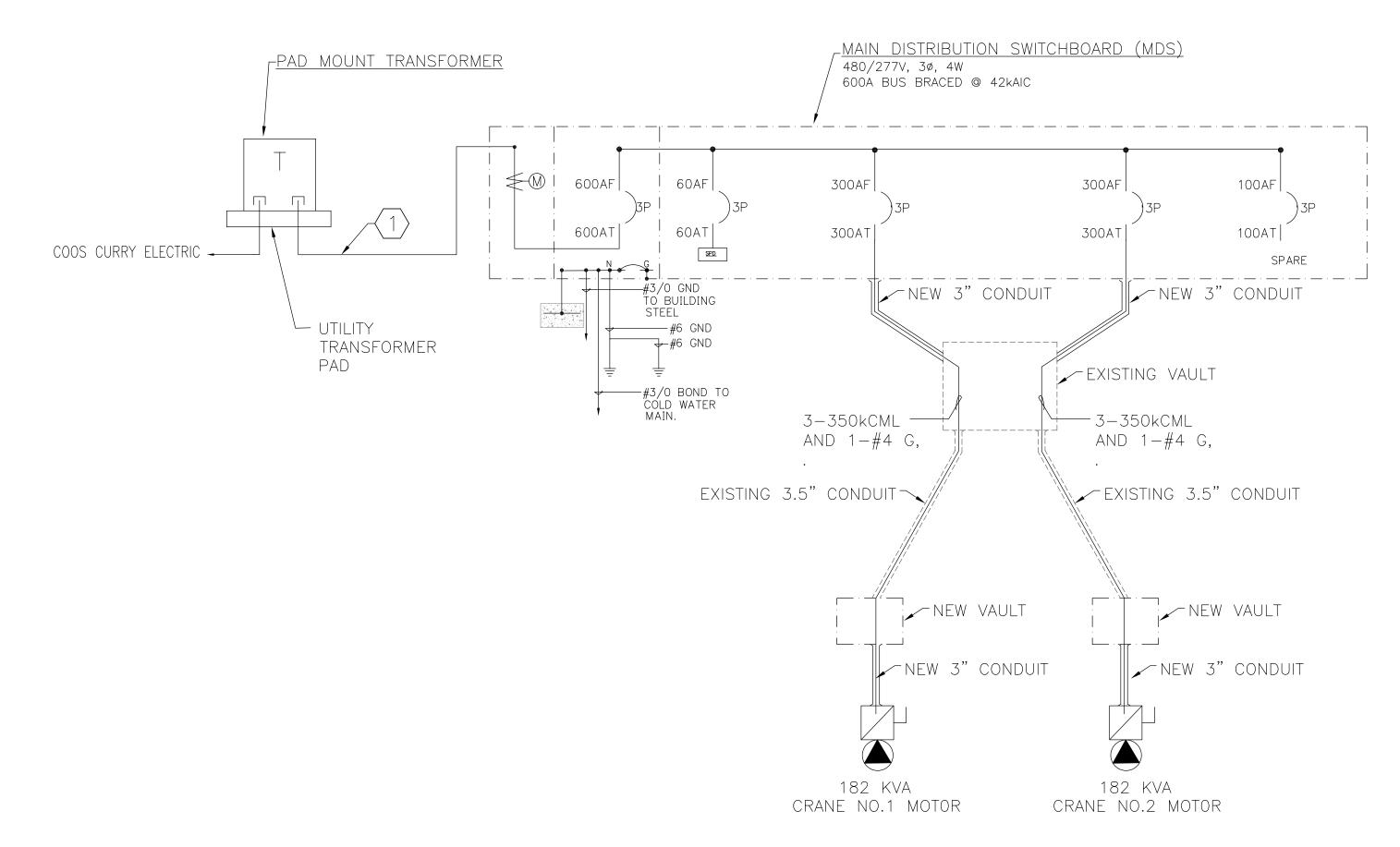
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1) PROVIDE THREE (2) 3-INCH SCHEDULE 4

PROVIDE THREE (2) 3-INCH SCHEDULE 40 PVC CONDUIT WITH LONG SWEEP OFFSETS AND ELLS FOR UTILITY PROVIDED AND INSTALLED SECONDARY FEEDER CABLES. INSTALL IN COMPLIANCE WITH PORTLAND COOS CURRY ELECTRIC STANDARDS



1 ELECTRICAL ONE LINE DIAGRAM
E4.00

Pan	el Schedule							External Circuit Breaker Serving this Panel	No				
	Name:	Phase '	Voltage:	277	Line-Line	Voltage:	480	Main Breaker:	600		Phase:	3 Phase	4 Wire
	Job No.:	Bus Ar	mpacity:	600				Feed Lugs and Sub Feed Lugs:	No		ISCR: TE	3D	
Ckt				PHAS	SE LOAD	S VA	Ckt				PHA	SE LOAD	S VA
No.	Item	CBA	POLE	A	В	С	No.	Item	CBA	POLE	Α	В	C
1	Crane #1	300	3	60,412			2	Crane #2	300	3	60,412		
3	Crane #1				60,412		4	Crane #2				60,412	
5	Crane #1					60,412	6	Crane #2					60,412
7	SPD	60	3	0			8	Spare	100	3	0		
	SPD				0		10	Spare				0	
11	SPD					0	12	Spare					0

A B	С	
120,824 120,824	1 120,824	Total Phase Loads VA
436 💆 436	436	Total Phase Loads Line Current
	362 472	Total VA

	2	PANEL	SCHEDULE	
/ I	E4.00 /			

Description		Remarks
New Crane #1	181,237	VA
New Crane #2	181,237	VA
2125% of the full-load highest Motor NEC 430.24	45,309	VA
New Total Loads	407,782	VA
New Total Loads Amperes @ 480-Volts	491	Amperes
New Panel Capacity in Amperes	600	Amperes
Remain Capacity in the panel	(109)	Amperes

3 LOAD SUMMARY

9/13/2024

Know what's below.
Call before you dig.

REPLACEMENT

CRANE

NO NO

50

ORFORD

PORT THE CITY

74353,000 PORT

R DIAGRAM

ONE LINE

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97005
33,521,7257
23-050

SHEET 18 OF 18

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