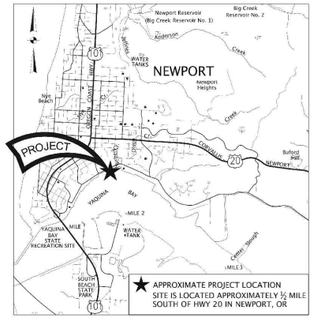
PORT OF NEWPORT
DOCK 3 AND 5 ELECTRICAL POWER UPGRADE
YAQUINA BAY NEWPORT, OR

ELECTRICAL DRAWINGS

DRAWING NO.	TITLE	REV #
PON-E00-001	DRAWING INDEX	A
PON-E10-900	SITE PLAN [SHEET 1 OF 6]	A
PON-E10-900	DOCK 3 [SHEET 2 OF 6]	A
PON-E10-900	DOCK 5A [SHEET 3 OF 6]	A
PON-E10-900	DOCK 5B [SHEET 4 OF 6]	A
PON-E10-900	DOCK 5C [SHEET 5 OF 6]	A
PON-E10-900	DOCK 5D [SHEET 6 OF 6]	A
PON-E10-910	DOCK 3 1-LINE	A
PON-E10-911	DOCK 5 1-LINE [SHEET 1 OF 2]	A
PON-E10-911	DOCK 5 1-LINE [SHEET 2 OF 2]	A
PON-E10-912	PANEL SCHEDULES	A
PON-E24-909	DETAILS [SHEET 1 OF 3]	A
PON-E24-909	DETAILS [SHEET 2 OF 3]	A
PON-E24-909	DETAILS [SHEET 3 OF 3]	A
PON-E24-911	DETAILS-DOCK 3	A
PON-E24-912	DETAILS-DOCK 5	A
PON-E50-930	WIRING DIAGRAM	A



VICINITY MAP
NO SCALE

ELEC. REF. FILE:
PLOT SCALE:

NO.	DATE	REVISION DESCRIPTION	DRAWN BY	ENGR BY	CHECKED BY	APVD BY
.	.	.	.	.	.	.
.	.	.	.	.	.	.
.	.	.	.	.	.	.

No.	DATE	REVISION DESCRIPTION	DRAWN BY	ENGR BY	CHECKED BY	APVD BY
A	06/13/25	ISSUE FOR BID	MF	NF	NF	NF

DRAWN BY MF
ENGR BY NF
CHECKED BY NF
APVD BY .

☐ CONCEPT
☐ FOR REVIEW
■ FOR BID
☐ FOR MANUFACTURE
☐ FOR CONSTRUCTION
☐ FOR RECORD

ALLIANCE CONSULTING ENGINEERS
720-205-8447

Port of Newport

TITLE
PORT OF NEWPORT
NEWPORT, OR
DOCK 5 & 3 RENOVATION
DRAWING LIST

SCALE NO SCALE | DRAWING No. PON-E00-001 | SHEET 1 OF 1 | REV A

N

NORTH

SEE SHEET PON–E24–912
FOR DETAILS

SEE SHEET PON–E24–911
FOR DETAILS

SE BAY BLVD

BOARDWALK

SEE SHEET PON–E10–900
SHT 3 FOR DETAILS

CT CABINET AND METER

METER BASE

PACIFIC SEAFOOD NEWPORT

PANEL 3

DOCK 3

PANEL 5A
PANEL 5B

DOCK 5A

DOCK 5X

DOCK 5C

DOCK 5B

DOCK 5D

SEE SHEET PON–E10–900
SHT 2 FOR DETAILS

SEE SHEET PON–E10–900
SHT 5 FOR DETAILS

SEE SHEET PON–E10–900
SHT 4 FOR DETAILS

SEE SHEET PON–E10–900
SHT 6 FOR DETAILS

NO.	DATE	REVISION DESCRIPTION	DRAWN BY	ENGR BY	CHECKED BY	APVD BY
.	.	.	.	.	.	.
.	.	.	.	.	.	.
.	.	.	.	.	.	.
A	06/13/25	ISSUE FOR BID	MF	NF	NF	NF

DRAWN BY: MF
ENGR BY: NF
CHECKED BY: NF
APVD BY: .

- ☐ CONCEPT
- ☐ FOR REVIEW
- ■ FOR BID
- ☐ FOR MANUFACTURE
- ☐ FOR CONSTRUCTION
- ☐ FOR RECORD

ALLIANCE CONSULTING ENGINEERS
720-205-8447

Port of Newport

TITLE: PORT OF NEWPORT
NEWPORT, OR
DOCK 5 & 3 RENOVATION
SITE PLAN

SCALE: NO SCALE
DRAWING No.: PON–E10–900
SHEET 1 OF 6 REV A

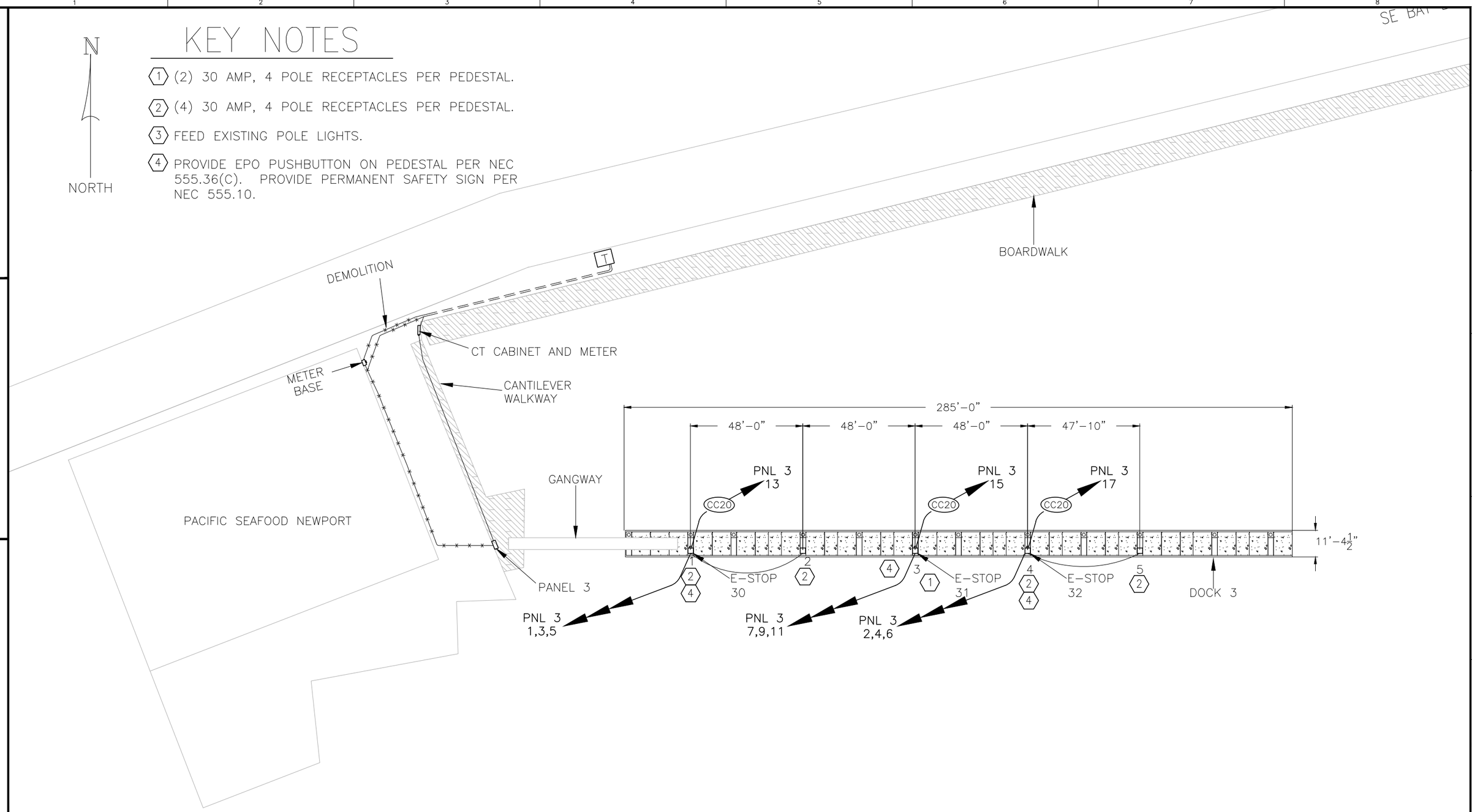
ELEC. REF. FILE:
PLOT SCALE:

KEY NOTES

1. (2) 30 AMP, 4 POLE RECEPTACLES PER PEDESTAL.
2. (4) 30 AMP, 4 POLE RECEPTACLES PER PEDESTAL.
3. FEED EXISTING POLE LIGHTS.
4. PROVIDE EPO PUSHBUTTON ON PEDESTAL PER NEC 555.36(C). PROVIDE PERMANENT SAFETY SIGN PER NEC 555.10.

N

NORTH



NO.	DATE	REVISION DESCRIPTION	DRAWN BY	ENGR BY	CHECKED BY	APVD BY
A	06/13/25	ISSUE FOR BID	MF	NF	NF	NF

DRAWN BY: MF
ENGR BY: NF
CHECKED BY: NF
APVD BY: .

- ☐ CONCEPT
- ☐ FOR REVIEW
- ■ FOR BID
- ☐ FOR MANUFACTURE
- ☐ FOR CONSTRUCTION
- ☐ FOR RECORD

ELEC. REF. FILE:
PLOT SCALE:

ALLIANCE CONSULTING ENGINEERS
720-205-8447

Port of Newport

TITLE
PORT OF NEWPORT
NEWPORT, OR
DOCK 5 & 3 RENOVATION
DOCK 3

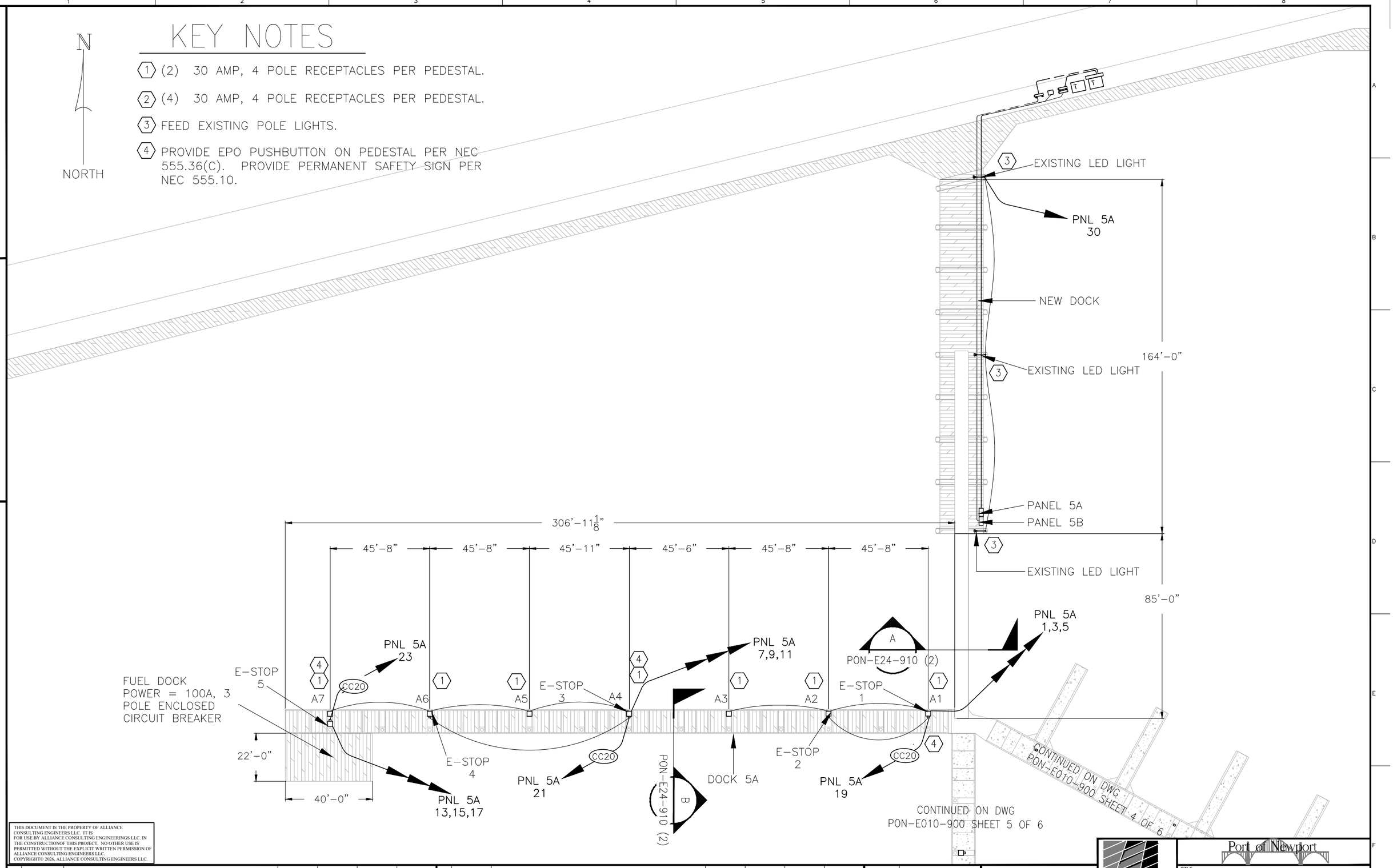
SCALE: NO SCALE
DRAWING No.: PON-E10-900
SHEET 2 OF 6 REV A

KEY NOTES

N

NORTH

1. (2) 30 AMP, 4 POLE RECEPTACLES PER PEDESTAL.
2. (4) 30 AMP, 4 POLE RECEPTACLES PER PEDESTAL.
3. FEED EXISTING POLE LIGHTS.
4. PROVIDE EPO PUSHBUTTON ON PEDESTAL PER NEC 555.36(C). PROVIDE PERMANENT SAFETY SIGN PER NEC 555.10.



NO.	DATE	REVISION DESCRIPTION	DRAWN BY	ENGR BY	CHECKED BY	APVD BY
A	06/13/25	ISSUE FOR BID	MF	NF	NF	NF

DRAWN BY: MF
ENGR BY: NF
CHECKED BY: NF
APVD BY: .

ELEC. REF. FILE:
PLOT SCALE:

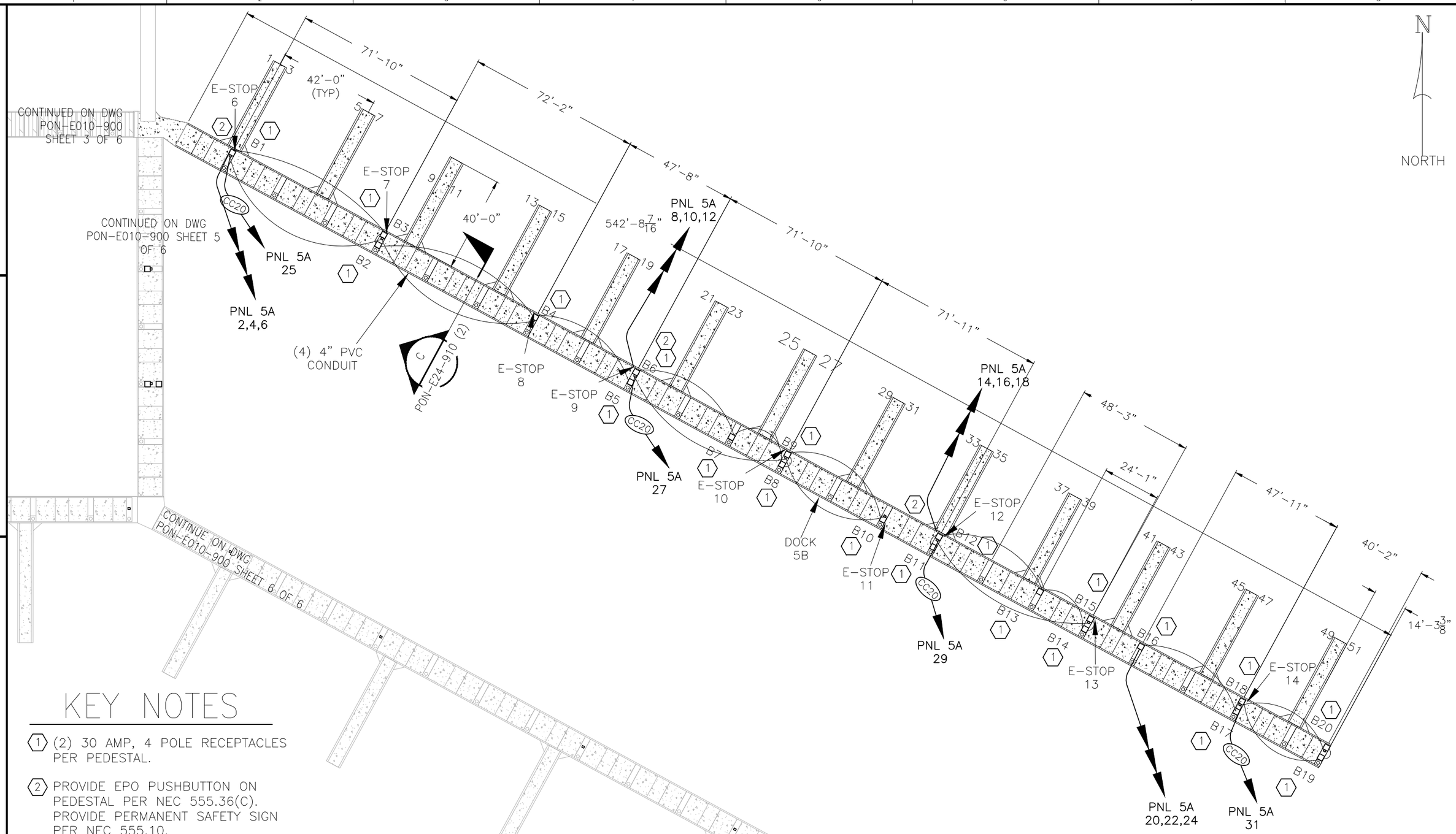
- ☐ CONCEPT
- ☐ FOR REVIEW
- ■ FOR BID
- ☐ FOR MANUFACTURE
- ☐ FOR CONSTRUCTION
- ☐ FOR RECORD

ALLIANCE CONSULTING ENGINEERS
720-205-8447

Port of Newport

TITLE
PORT OF NEWPORT
NEWPORT, OR
DOCK 5 & 3 RENOVATION
DOCK 5A

SCALE: NO SCALE | DRAWING No.: PON–E10–900 | SHEET: 3 OF 6 | REV: A



KEY NOTES

1. (2) 30 AMP, 4 POLE RECEPTACLES PER PEDESTAL.
2. PROVIDE EPO PUSHBUTTON ON PEDESTAL PER NEC 555.36(C). PROVIDE PERMANENT SAFETY SIGN PER NEC 555.10.

NO.	DATE	REVISION DESCRIPTION	DRAWN BY	ENGR BY	CHECKED BY	APVD BY
A	06/13/25	ISSUE FOR BID	MF	NF	NF	NF

DRAWN BY: MF
ENGR BY: NF
CHECKED BY: NF
APVD BY: .

- ☐ CONCEPT
- ☐ FOR REVIEW
- ■ FOR BID
- ☐ FOR MANUFACTURE
- ☐ FOR CONSTRUCTION
- ☐ FOR RECORD

ELEC. REF. FILE:
PLOT SCALE:

ALLIANCE CONSULTING ENGINEERS
720-205-8447

Port of Newport

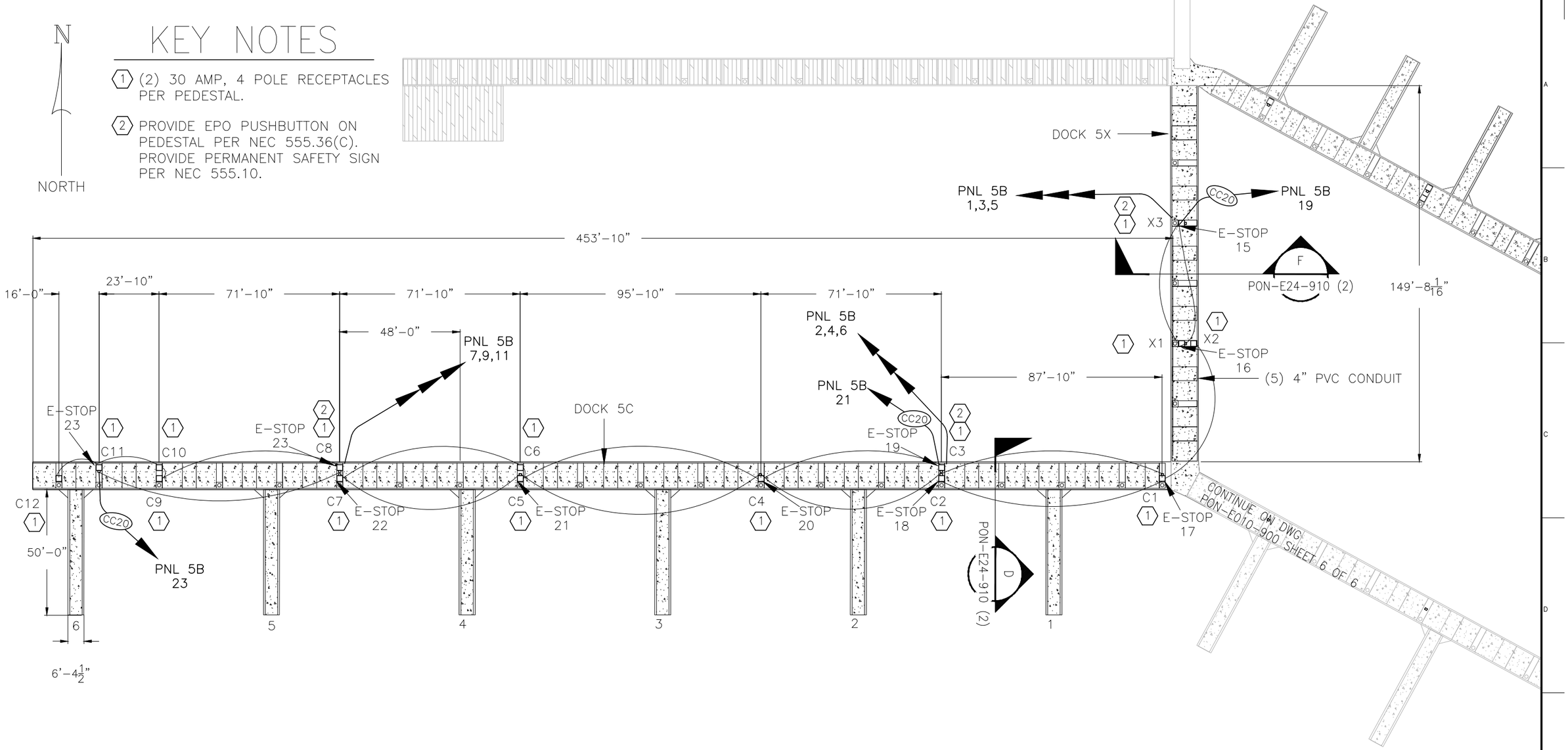
TITLE: PORT OF NEWPORT
NEWPORT, OR
DOCK 5 & 3 RENOVATION
DOCK 5B

SCALE: NO SCALE | DRAWING No.: PON-E10-900 | SHEET 4 OF 6 | REV A

KEY NOTES

1. (2) 30 AMP, 4 POLE RECEPTACLES PER PEDESTAL.
2. PROVIDE EPO PUSHBUTTON ON PEDESTAL PER NEC 555.36(C). PROVIDE PERMANENT SAFETY SIGN PER NEC 555.10.

NORTH



NO.	DATE	REVISION DESCRIPTION	DRAWN BY	ENGR BY	CHECKED BY	APVD BY
.	.	.	.	.	.	.
.	.	.	.	.	.	.
.	.	.	.	.	.	.

No.	DATE	REVISION DESCRIPTION	DRAWN BY	ENGR BY	CHECKED BY	APVD BY
A	06/13/25	ISSUE FOR BID	MF	NF	NF	NF

DRAWN BY	MF
ENGR BY	NF
CHECKED BY	NF
APVD BY	.

ELEC. REF. FILE:
PLOT SCALE:

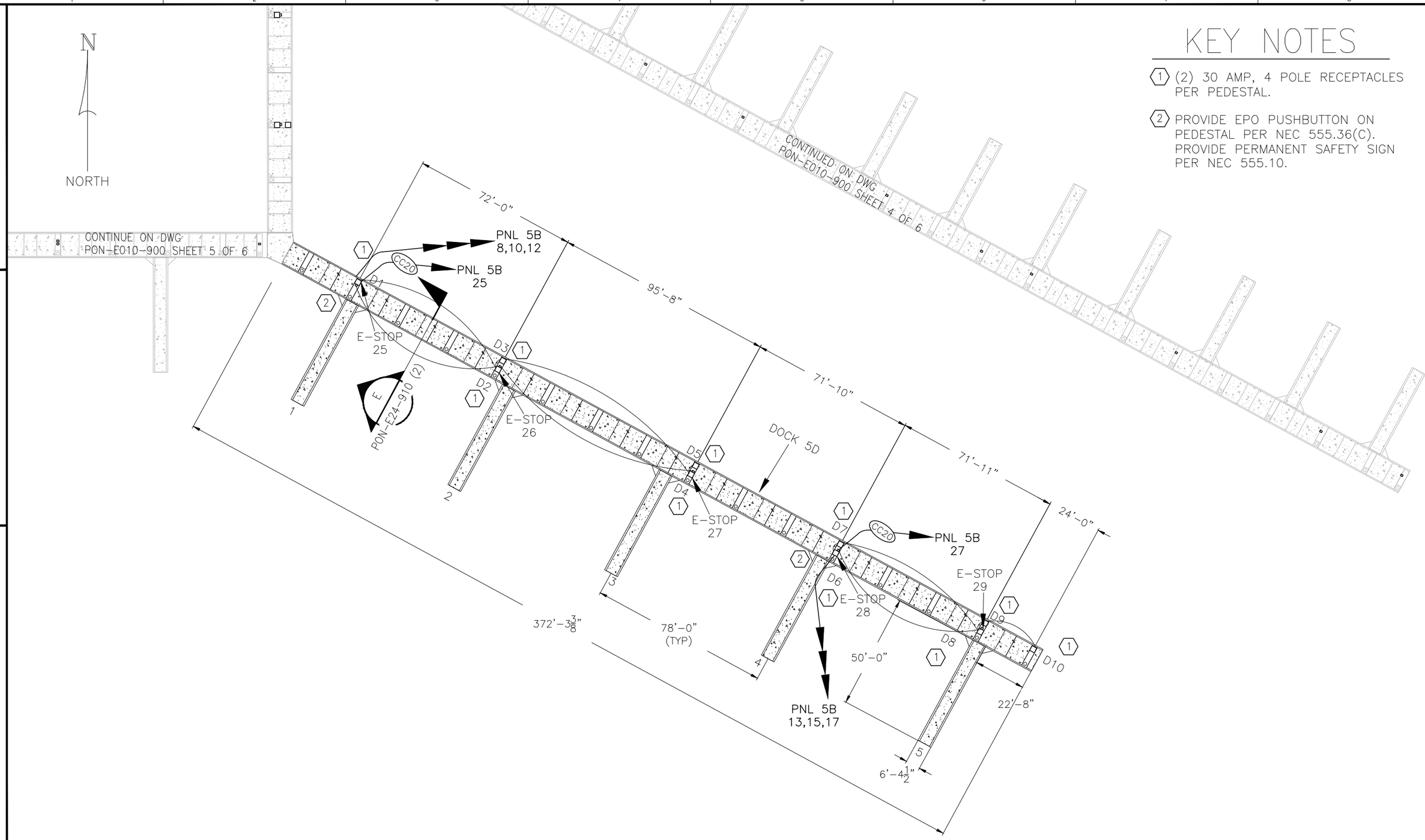
- ☐ CONCEPT
- ☐ FOR REVIEW
- ■ FOR BID
- ☐ FOR MANUFACTURE
- ☐ FOR CONSTRUCTION
- ☐ FOR RECORD

ALLIANCE CONSULTING ENGINEERS
720-205-8447

Port of Newport

TITLE
PORT OF NEWPORT
NEWPORT, OR
DOCK 5 & 3 RENOVATION
DOCK 5C

SCALE	DRAWING No.	SHEET	OF	REV
NO SCALE	PON-E10-900	5	6	A



KEY NOTES

1. (2) 30 AMP, 4 POLE RECEPTACLES PER PEDESTAL.
2. PROVIDE EPO PUSHBUTTON ON PEDESTAL PER NEC 555.36(C). PROVIDE PERMANENT SAFETY SIGN PER NEC 555.10.

NO.	DATE	REVISION DESCRIPTION	DRAWN BY	ENGR BY	CHECKED BY	APVD BY
.	.	.	.	.	.	.
.	.	.	.	.	.	.
.	.	.	.	.	.	.
A	06/13/25	ISSUE FOR BID	MF	NF	NF	NF

DRAWN BY: MF
ENGR BY: NF
CHECKED BY: NF
APVD BY:

- ☐ CONCEPT
- ☐ FOR REVIEW
- ■ FOR BID
- ☐ FOR MANUFACTURE
- ☐ FOR CONSTRUCTION
- ☐ FOR RECORD

ELEC. REF. FILE:
PLOT SCALE:

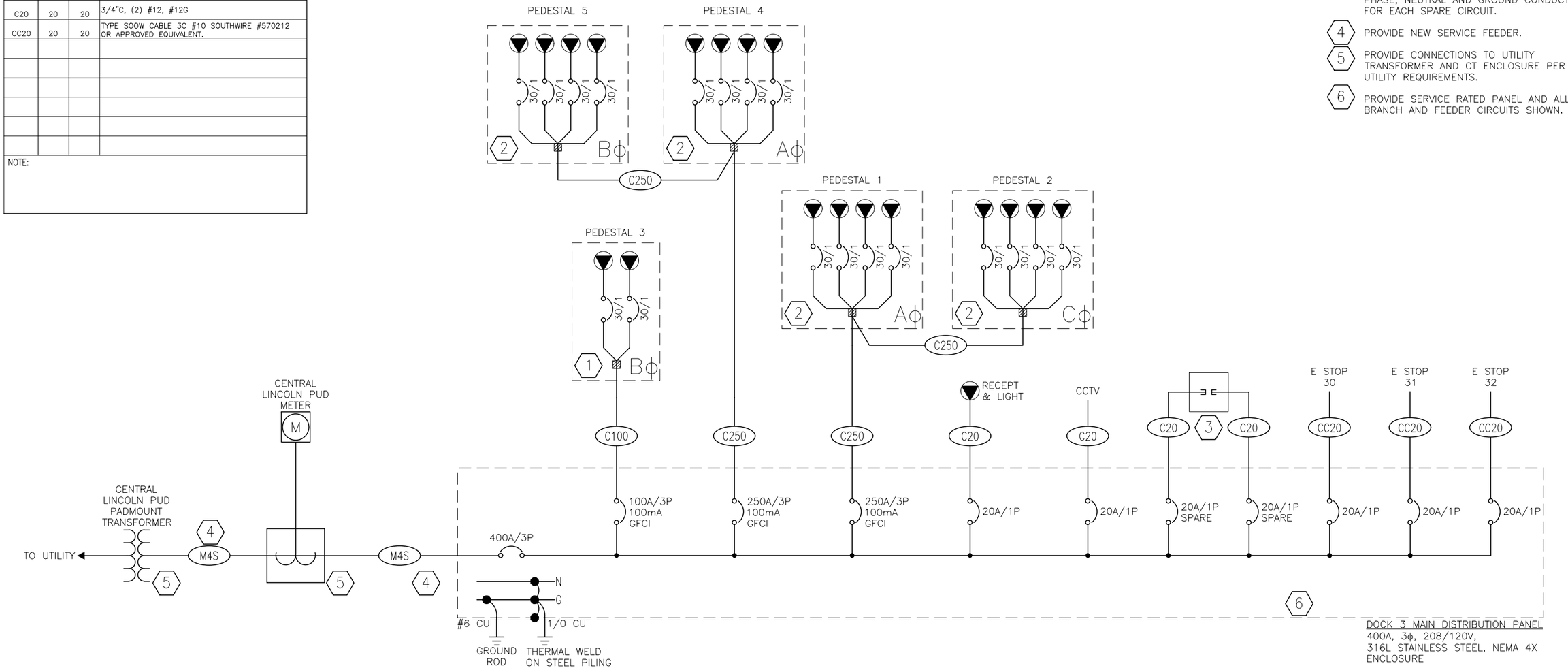
ALLIANCE CONSULTING ENGINEERS
720-205-8447

Port of Newport

TITLE: PORT OF NEWPORT
NEWPORT, OR
DOCK 5 & 3 RENOVATION
DOCK 5D

SCALE: NO SCALE
DRAWING No.: PON-E10-900
SHEET 6 OF 6 REV A

FEEDER SCHEDULE			
FEEDER DESIGN	RATED AMPS	MAX OCPD	CONDUIT AND CONDUCTORS
M4S	380	400	3-1/2"C, (4) #500 KCMIL CU
2M4S	760	800	2[3-1/2"C,(4)] #500 KCMIL CU
C100	101	100	TYPE W CABLE, 4C #4 SOUTHWIRE #558156 OR APPROVED EQUIVALENT.
C250	277	250	TYPE W CABLE, 4C #4/0 SOUTHWIRE #560069 OR APPROVED EQUIVALENT.
C20	20	20	3/4"C, (2) #12, #12G
CC20	20	20	TYPE SOOW CABLE 3C #10 SOUTHWIRE #570212 OR APPROVED EQUIVALENT.
NOTE:			



KEY NOTES

1. INSTALL EATON "LIGHTHOUSE" MARINE POWER PEDESTAL. FURNISHED BY THE PORT.
2. INSTALL EATON "LIGHTHOUSE" MARINE POWER PEDESTAL. FURNISHED BY THE PORT.
3. RUN #12 CONDUCTORS FROM SPARE CIRCUIT BREAKER TO WEATHERPROOF JUNCTION BOX. INSULATE CONDUCTORS WITH WIRE NUTS FOR FUTURE USE. INCLUDE A PHASE, NEUTRAL AND GROUND CONDUCTOR FOR EACH SPARE CIRCUIT.
4. PROVIDE NEW SERVICE FEEDER.
5. PROVIDE CONNECTIONS TO UTILITY TRANSFORMER AND CT ENCLOSURE PER UTILITY REQUIREMENTS.
6. PROVIDE SERVICE RATED PANEL AND ALL BRANCH AND FEEDER CIRCUITS SHOWN.

NO.	DATE	REVISION DESCRIPTION	DRAWN BY	ENGR BY	CHECKED BY	APVD BY
.	.	.	.	.	.	.
.	.	.	.	.	.	.
.	.	.	.	.	.	.
A	06/13/25	ISSUE FOR BID	MF	NF	NF	NF

DRAWN BY: MF
ENGR BY: NF
CHECKED BY: NF
APVD BY: .

☐ CONCEPT
☐ FOR REVIEW
■ FOR BID
☐ FOR MANUFACTURE
☐ FOR CONSTRUCTION
☐ FOR RECORD

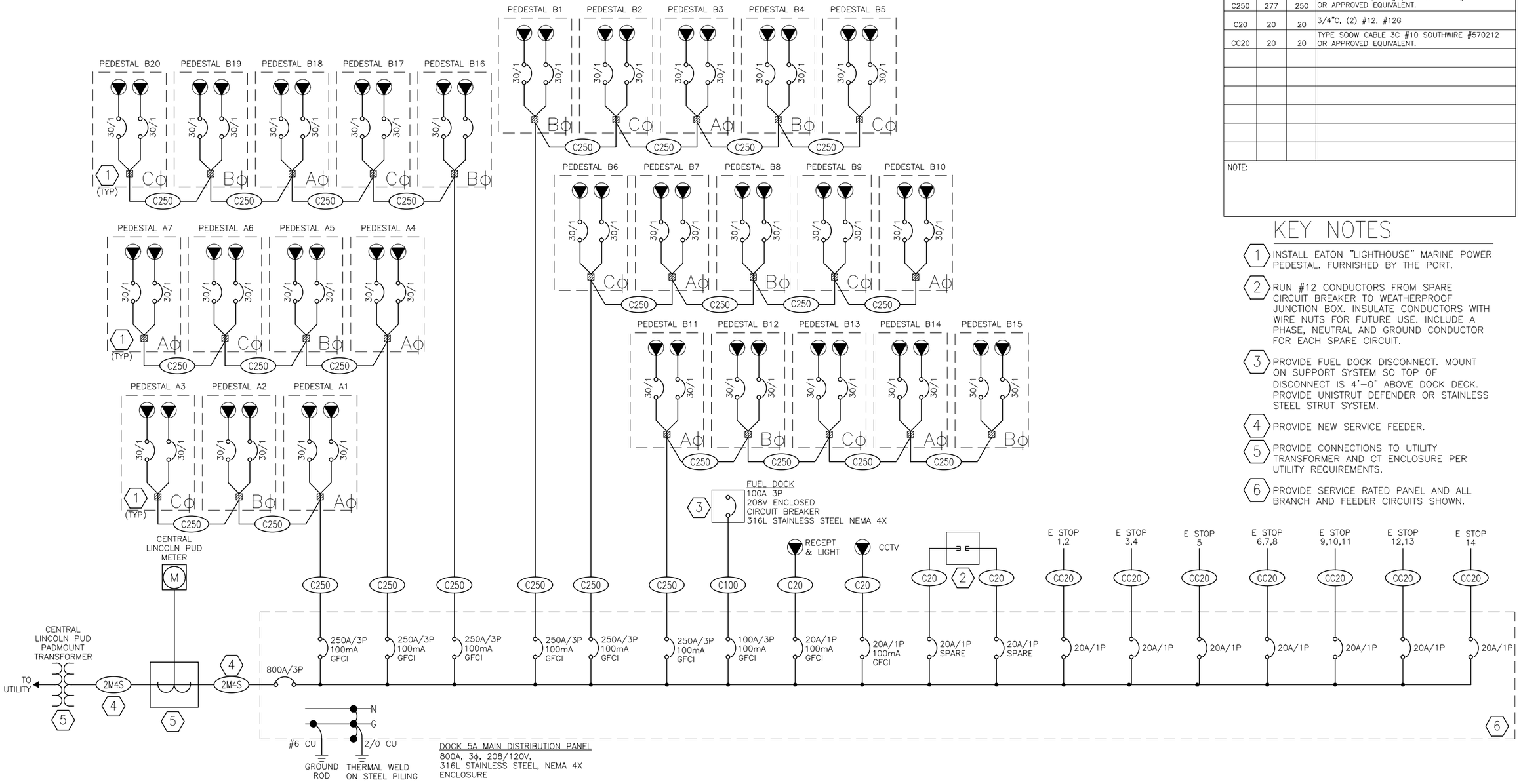
ELEC. REF. FILE:
PLOT SCALE:

ALLIANCE CONSULTING ENGINEERS
720-205-8447

Port of Newport

TITLE
PORT OF NEWPORT
NEWPORT, OR
DOCK 5 & 3 RENOVATION
DOCK 3 ONE-LINE DIAGRAM

SCALE: NO SCALE
DRAWING No.: PON-E10-910
SHEET 1 OF 1
REV A



FEEDER SCHEDULE			
FEEDER DESIGN	RATED AMPS	MAX OCPD	CONDUIT AND CONDUCTORS
M4S	380	400	3-1/2"C, (4) #500 KCMIL CU
2M4S	760	800	2[3-1/2"C,(4)] #500 KCMIL CU
C100	101	100	TYPE W CABLE, 4C #4 SOUTHWIRE #558156 OR APPROVED EQUIVALENT.
C250	277	250	TYPE W CABLE, 4C #4/0 SOUTHWIRE #560069 OR APPROVED EQUIVALENT.
C20	20	20	3/4"C, (2) #12, #12G
CC20	20	20	TYPE SOOW CABLE 3C #10 SOUTHWIRE #570212 OR APPROVED EQUIVALENT.
NOTE:			

KEY NOTES

1. INSTALL EATON "LIGHTHOUSE" MARINE POWER PEDESTAL. FURNISHED BY THE PORT.
2. RUN #12 CONDUCTORS FROM SPARE CIRCUIT BREAKER TO WEATHERPROOF JUNCTION BOX. INSULATE CONDUCTORS WITH WIRE NUTS FOR FUTURE USE. INCLUDE A PHASE, NEUTRAL AND GROUND CONDUCTOR FOR EACH SPARE CIRCUIT.
3. PROVIDE FUEL DOCK DISCONNECT. MOUNT ON SUPPORT SYSTEM SO TOP OF DISCONNECT IS 4'-0" ABOVE DOCK DECK. PROVIDE UNISTRUT DEFENDER OR STAINLESS STEEL STRUT SYSTEM.
4. PROVIDE NEW SERVICE FEEDER.
5. PROVIDE CONNECTIONS TO UTILITY TRANSFORMER AND CT ENCLOSURE PER UTILITY REQUIREMENTS.
6. PROVIDE SERVICE RATED PANEL AND ALL BRANCH AND FEEDER CIRCUITS SHOWN.

NO.	DATE	REVISION DESCRIPTION	DRAWN BY	ENGR BY	CHECKED BY	APVD BY
.	.	.	.	.	.	.
.	.	.	.	.	.	.
.	.	.	.	.	.	.
A	06/13/25	ISSUE FOR BID	MF	NF	NF	NF

DRAWN BY: MF
ENGR BY: NF
CHECKED BY: NF
APVD BY:

ELEC. REF. FILE:
PLOT SCALE:

- ☐ CONCEPT
- ☐ FOR REVIEW
- ■ FOR BID
- ☐ FOR MANUFACTURE
- ☐ FOR CONSTRUCTION
- ☐ FOR RECORD

ALLIANCE CONSULTING ENGINEERS
720-205-8447

Port of Newport

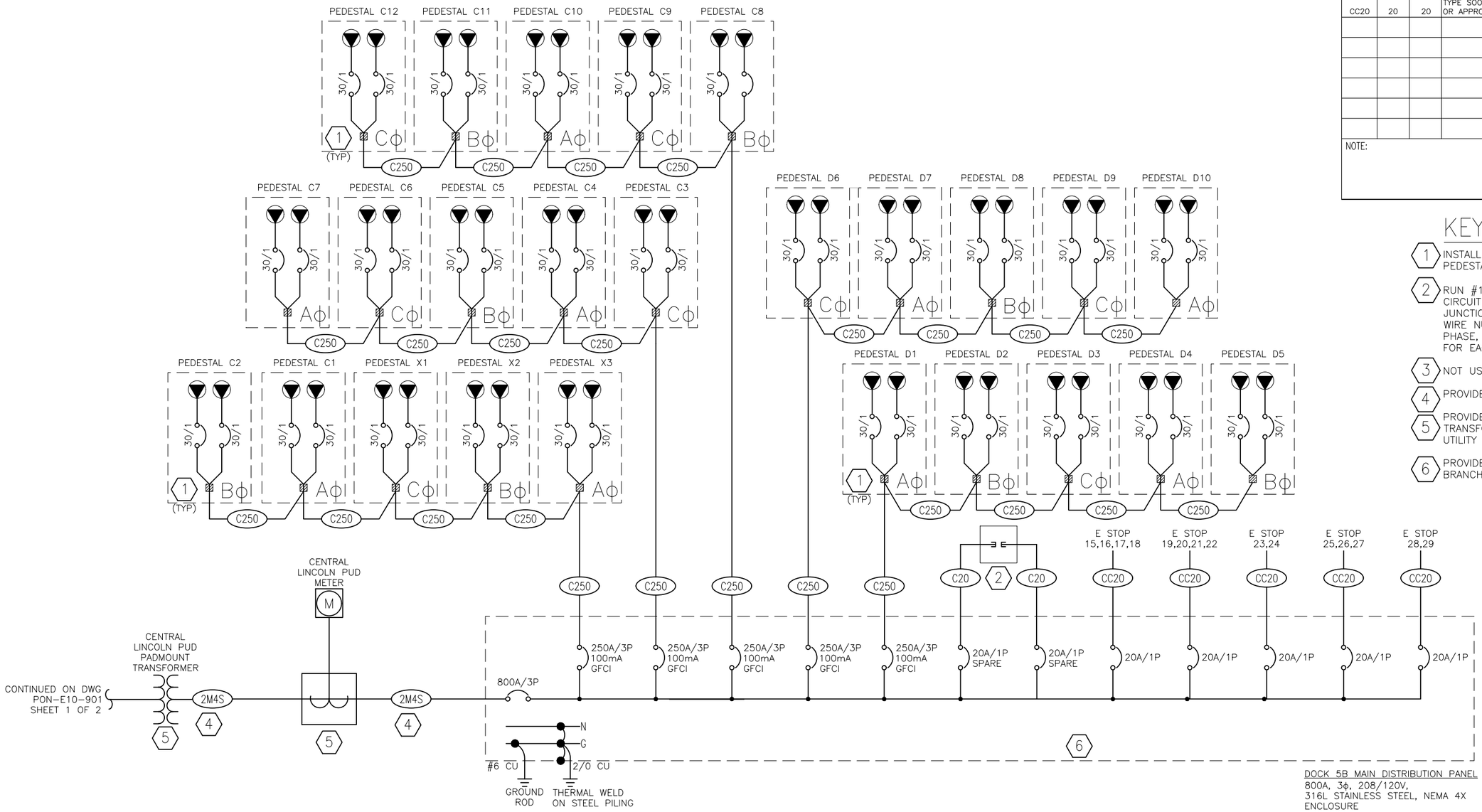
TITLE
PORT OF NEWPORT
NEWPORT, OR
DOCK 5 & 3 RENOVATION
DOCK 5 ONE-LINE DIAGRAM [SHEET 1 OF 2]

SCALE: NO SCALE
DRAWING No.: PON-E10-911
SHEET 1 OF 2 REV A

FEEDER SCHEDULE			
FEEDER DESIGN	RATED AMPS	MAX OCPD	CONDUIT AND CONDUCTORS
M4S	380	400	3–1/2"C, (4) #500 KCMIL CU
2M4S	760	800	2[3–1/2"C,(4)] #500 KCMIL CU
C100	101	100	TYPE W CABLE, 4C #4 SOUTHWIRE #558156 OR APPROVED EQUIVALENT.
C250	277	250	TYPE W CABLE, 4C #4/0 SOUTHWIRE #560069 OR APPROVED EQUIVALENT.
C20	20	20	3/4"C, (2) #12, #12G
CC20	20	20	TYPE SOOW CABLE 3C #10 SOUTHWIRE #570212 OR APPROVED EQUIVALENT.
NOTE:			

KEY NOTES

1. INSTALL EATON "LIGHTHOUSE" MARINE POWER PEDESTAL. FURNISHED BY THE PORT.
2. RUN #12 CONDUCTORS FROM SPARE CIRCUIT BREAKER TO WEATHERPROOF JUNCTION BOX. INSULATE CONDUCTORS WITH WIRE NUTS FOR FUTURE USE. INCLUDE A PHASE, NEUTRAL AND GROUND CONDUCTOR FOR EACH SPARE CIRCUIT.
3. NOT USED.
4. PROVIDE NEW SERVICE FEEDER.
5. PROVIDE CONNECTIONS TO UTILITY TRANSFORMER AND CT ENCLOSURE PER UTILITY REQUIREMENTS.
6. PROVIDE SERVICE RATED PANEL AND ALL BRANCH AND FEEDER CIRCUITS SHOWN.



DOCK 5B MAIN DISTRIBUTION PANEL
800A, 3ϕ, 208/120V,
316L STAINLESS STEEL, NEMA 4X ENCLOSURE

NO.	DATE	REVISION DESCRIPTION	DRAWN BY	ENGR BY	CHECKED BY	APVD BY
A	06/13/25	ISSUE FOR BID	MF	NF	NF	NF

DRAWN BY: MF
ENGR BY: NF
CHECKED BY: NF
APVD BY:

☐ CONCEPT
☐ FOR REVIEW
■ FOR BID
☐ FOR MANUFACTURE
☐ FOR CONSTRUCTION
☐ FOR RECORD

ALLIANCE CONSULTING ENGINEERS
720-205-8447

Port of Newport

TITLE
PORT OF NEWPORT
NEWPORT, OR
DOCK 5 & 3 RENOVATION
DOCK 5 ONE–LINE DIAGRAM [SHEET 2 OF 2]

SCALE: NO SCALE
DRAWING No.: PON–E10–911
SHEET 2 OF 2 REV A

ELEC. REF. FILE:
PLOT SCALE:

Panel 5A

Service: **120/208 Volt, 3 Phase, 4 Wire**

Panel Type: **NEMA 4X, SS**

Poles: **42**

Mounting: **Freestanding**

Mains: **800A3P**

AIC: **10K**

Comments:

Bus: **800**

Code	Description	Load	Bkr	P	Phase Circuit			P	Bkr	Load	Description	Code
X8	PEDESTALS	62400	*250	3	1	A	2	3	*250	104000	PEDESTALS	X14
	A1,A2,A3		/		3	B	4		/		B1,B2,B3,B4,B5	
	2 RECEPTACLES / PED		/		5	C	6		/		2 RECEPTACLES / PED	
X14	PEDESTALS	83200	*250	3	7	A	8	3	*250	104000	PEDESTALS	X14
	A4,A5,A6,A7		/		9	B	10		/		B6,B7,B8,B9,B10	
	2 RECEPTACLES / PED		/		11	C	12		/		2 RECEPTACLES / PED	
X4	FUEL DOCK	29000	*100	3	13	A	14	3	*250	104000	PEDESTALS	X14
			/		15	B	16		/		B11,B12,B13,B14,B15	
			/		17	C	18		/		2 RECEPTACLES / PED	
	E STOP 1,2	0	20	1	19	A	20	3	*250	104000	PEDESTALS	X14
	E STOP 3,4	0	20	1	21	B	22		/		B16,B17,B18,B19,B20	
	E STOP 5	0	20	1	23	C	24		/		2 RECEPTACLES / PED	
	E STOP 6,7,8	0	20	1	25	A	26	1	20	100	RECEPTACLE	R
	E STOP 9,10,11	0	20	1	27	B	28	1	20	180	SECURITY CAMERA	R
	E STOP 12,13	0	20	1	29	C	30	1	20	100	POLE LIGHTS	L
	E STOP 14	0	20	1	31	A	32		-		SPACE	
	SPACE		-		33	B	34		-		SPACE	
	SPACE		-		35	C	36		-		SPACE	
	SPACE		-		37	A	38		-		SPACE	
	SPACE		-		39	B	40		-		SPACE	
	SPACE		-		41	C	42		-		SPACE	

Code	Description	Conn.	DF
L	Lighting	0.10	125%
R	Recpt up to 10 kVA	0.28	100%
	Recpt over 10 kVA	0.00	50%
M	Motor	0.00	100%
	Largest Motor	0.00	125%
X4	Receptacles Loads 1 - 4	29.00	100%
X8	Receptacles Loads 5 - 8	62.40	90%
X14	Receptacles Loads 9 - 14	499.20	80%
	Connected Total	590.98	KVA
	Connected Load	1641.61	Amps

* 100 mA GFCI TRIP

Load Summary

		Balance
Phase A	196.97 KVA	33%
Phase B	197.05 KVA	33%
Phase C	196.97 KVA	33%
Connected	590.98 KVA	

PANEL DEMAND:

NEC TABLE 555.12 ALLOWS A DEMAND FACTOR OF 40% TO BE APPLIED TO 54 RECEPTACLES.
PEDESTAL RECEPTACLES: 54 X 10,400 VA X 0.40 = 224,640 VA
MISCELLANEOUS LOADS: 1,380 VA
FUEL DOCK LOAD: 29,000 VA
TOTAL DEMAND LOAD: 255,020 VA
255,020 VA @ 208 V, 3 PHASE = 708 AMPS

PANEL 5B

Service: **120/208 Volt, 3 Phase, 4 Wire**

Panel Type: **NEAM 4X, SS**

Poles: **42**

Mounting: **Surface**

Mains: **800A3P**

AIC: **10K**

Comments:

Bus: **800**

Code	Description	Load	Bkr	P	Phase Circuit			P	Bkr	Load	Description	Code
X8	PEDESTALS	10400	*250	3	1	A	2	3	*250	104000	PEDESTALS	X14
	C1,C2,X1,X2,X3		/		3	B	4		/		C3,C4,C5,C6,C7	
	2 RECEPTACLES / PED		/		5	C	6		/		2 RECEPTACLES / PED	
X14	PEDESTALS	104000	*250	3	7	A	8	3	*250	104000	PEDESTALS	X14
	C8,C9,C10,C11,C12		/		9	B	10		/		D1,D2,D3,D4,D5	
	2 RECEPTACLES / PED		/		11	C	12		/		2 RECEPTACLES / PED	
X14	PEDESTALS	104000	*250	3	13	A	14	1	20		SPARE	
	D6,D7,D8,D9,D10		/		15	B	16		-		SPACE	
	2 RECEPTACLES / PED		/		17	C	18		-		SPACE	
	E STOP 15,16,17,18	0	20	1	19	A	20		-		SPACE	
	E STOP 19,20,21,22	0	20	1	21	B	22		-		SPACE	
	E STOP 23,24	0	20	1	23	C	24		-		SPACE	
	E STOP 25,26,27	0	20	1	25	A	26		-		SPACE	
	E STOP 28,29	0	20	1	27	B	28		-		SPACE	
	SPACE		-		29	C	30		-		SPACE	
	SPACE		-		31	A	32		-		SPACE	
	SPACE		-		33	B	34		-		SPACE	
	SPACE		-		35	C	36		-		SPACE	
	SPACE		-		37	A	38		-		SPACE	
	SPACE		-		39	B	40		-		SPACE	
	SPACE		-		41	C	42		-		SPACE	

Code	Description	Conn.	DF
L	Lighting	0.00	125%
R	Recpt up to 10 kVA	0.00	100%
	Recpt over 10 kVA	0.00	50%
M	Motor	0.00	100%
	Largest Motor	0.00	125%
X4	Receptacles Loads 1 - 4	0.00	100%
X8	Receptacles Loads 5 - 8	10.40	90%
X14	Receptacles Loads 9 - 14	416.00	80%
	Connected Total	426.40	KVA
	Connected Load	1184.44	Amps

* 100 mA GFCI TRIP

Load Summary

		Balance
Phase A	142.13 KVA	33%
Phase B	142.13 KVA	33%
Phase C	142.13 KVA	33%
Connected	426.40 KVA	

PANEL DEMAND:

NEC TABLE 555.12 ALLOWS A DEMAND FACTOR OF 50% TO BE APPLIED TO 50 RECEPTACLES.
PEDESTAL RECEPTACLES: 50 X 10,400 VA X 0.50 = 260,000 VA
260,000 VA @ 208 V, 3 PHASE = 721 AMPS

PANEL 3

Service: **120/208 Volt, 3 Phase, 4 Wire**

Panel Type: **NEMA 4X, SS**

Poles: **30**

Mounting: **Surface**

Mains: **400A3P**

AIC: **10K**

Comments:

Bus: **400**

Code	Description	Load	Bkr	P	Phase Circuit			P	Bkr	Load	Description	Code
X8	PEDESTALS 1,2	83200	*250	3	1	A	2	3	*250	83200	PEDESTALS 4,5	X8
	4 RECEPTACLES / PED		/		3	B	4		/		4 RECEPTACLES / PED	
			/		5	C	6		/			
X4	PEDESTAL 3	20800	*100	3	7	A	8	1	20	1200	RECEPTACLE / LIGHT	R
	2 RECEPTACLES / PED		/		9	B	10	1	20	1200	SECURITY CAMERA	R
			/		11	C	12	1	20		SPARE	
	E STOP 30	0	20	1	13	A	14	1	20		SPARE	
	E STOP 31	0	20	1	15	B	16		-		SPACE	
	E STOP 32	0	20	1	17	C	18		-		SPACE	
	SPACE		-		19	A	20		-		SPACE	
	SPACE		-		21	B	22		-		SPACE	
	SPACE		-		23	C	24		-		SPACE	
	SPACE		-		25	A	26		-		SPACE	
	SPACE		-		27	B	28		-		SPACE	
	SPACE		-		29	C	30		-		SPACE	
			-		31	A	32		-			
			-		33	B	34		-			
			-		35	C	36		-			
			-		37	A	38		-			
			-		39	B	40		-			
			-		41	C	42		-			

Code	Description	Conn.	DF
L	Lighting	0.00	125%
R	Recpt up to 10 kVA	2.40	100%
	Recpt over 10 kVA	0.00	50%
M	Motor	0.00	100%
	Largest Motor	0.00	125%
X4	Receptacles Loads 1 - 4	20.80	100%
X8	Receptacles Loads 5 - 8	166.40	90%
X14	Receptacles Loads 9 - 14	0.00	80%
	Connected Total	189.60	KVA
	Connected Load	526.67	Amps

* 100 mA GFCI TRIP

Load Summary

		Balance
Phase A	63.60 KVA	34%
Phase B	63.60 KVA	34%
Phase C	62.40 KVA	33%
Connected	189.60 KVA	

PANEL DEMAND:

NEC TABLE 555.12 ALLOWS A DEMAND FACTOR OF 70% TO BE APPLIED TO 18 RECEPTACLES.
PEDESTAL RECEPTACLES: 18 X 10,400 VA X 0.70 = 131,040 VA
MISCELLANEOUS LOADS: 1,380 VA
TOTAL DEMAND LOAD: 132,420 VA
132,420 VA @ 208 V, 3 PHASE = 368 AMPS

NOTE: DEMAND CALCULATIONS REFLECT EVENTUAL CHANGES TO 50 AMP RECEPTACLES.

ELEC. REF. FILE:
PLOT SCALE:

NO.	DATE	REVISION DESCRIPTION	DRAWN BY	ENGR BY	CHECKED BY	APVD BY
.	.	.	.	.	.	.
.	.	.	.	.	.	.
.	.	.	.	.	.	.
A	06/13/25	ISSUE FOR BID	MF	NF	NF	NF

DRAWN BY MF
ENGR BY NF
CHECKED BY NF
APVD BY .

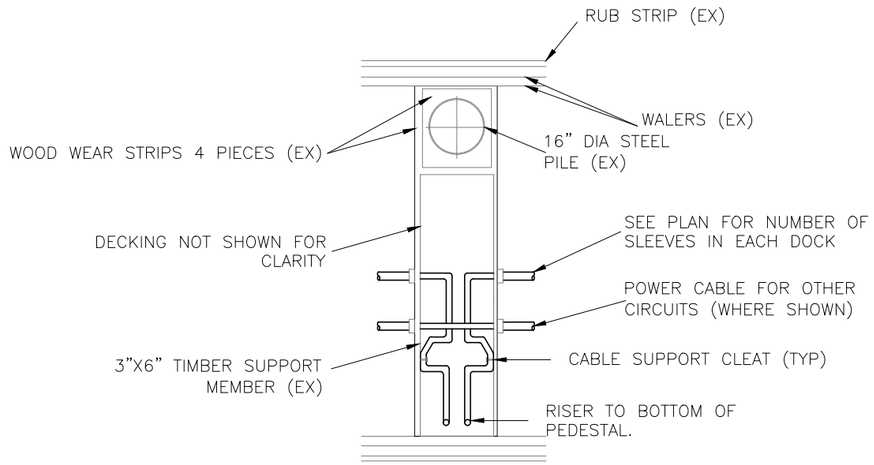
☐ CONCEPT
☐ FOR REVIEW
■ FOR BID
☐ FOR MANUFACTURE
☐ FOR CONSTRUCTION
☐ FOR RECORD

ALLIANCE CONSULTING ENGINEERS
720-205-8447

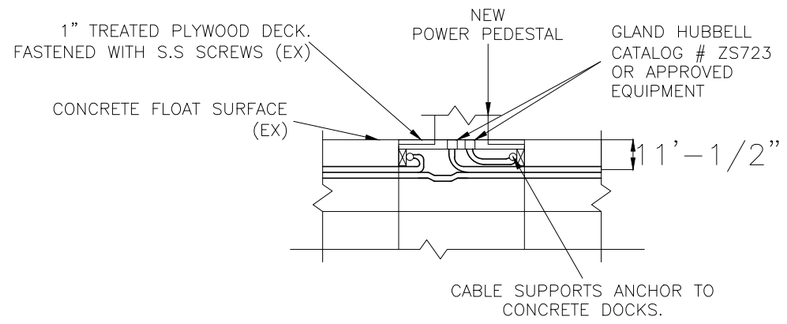
Port of Newport

TITLE: PORT OF NEWPORT
NEWPORT, OR
DOCK 5 & 3 RENOVATION
PANEL SCHEDULES

SCALE: NO SCALE
DRAWING No.: PON-E10-912
SHEET 1 OF 1 REV A



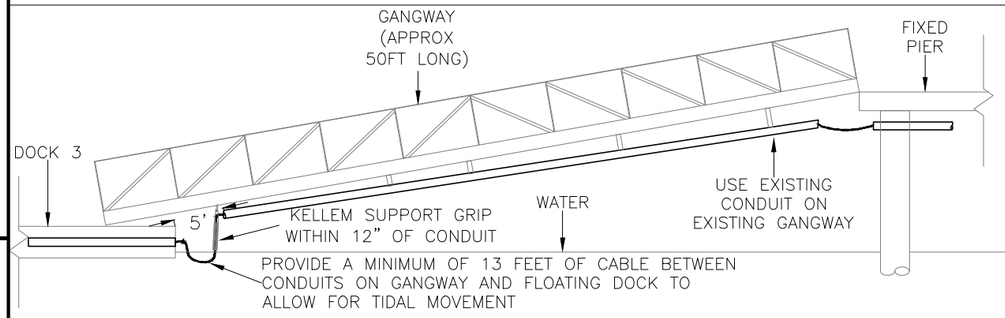
POWER CENTER LOCATION
PLAN VIEW



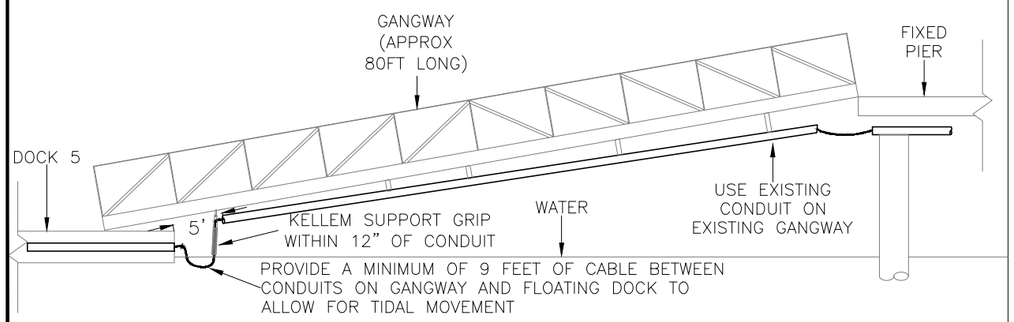
POWER CENTER LOCATION SECTION

PROVIDE SIGNAGE IAW NEC 555.10 AT LOCATIONS APPROVED BY THE PORT OF NEWPORT. ONE SIGN AT EACH DOCK APPROACH

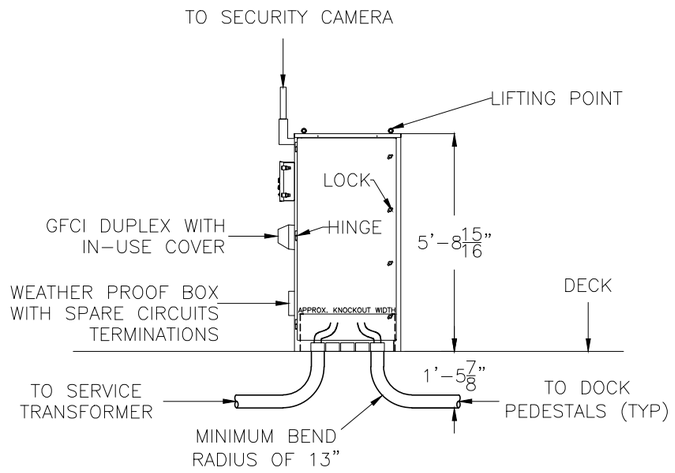
NO SWIMMING SIGN



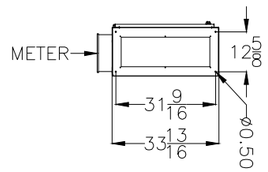
DOCK 3 GANGWAY
NOT TO SCALE



DOCK 5 GANGWAY
NOT TO SCALE

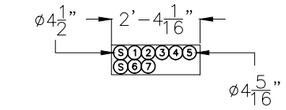


PANEL 5A
FRONT VIEW

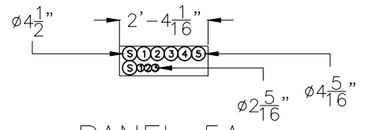


PANEL 5
TOP VIEW

NOTE:
DIAMETERS OF CABLE GLANDS AND CONDUIT CONNECTORS IS SHOWN.



PANEL 5B



PANEL 5A

NO.	DATE	REVISION DESCRIPTION	DRAWN BY	ENGR BY	CHECKED BY	APVD BY
.	.	.	.	.	.	.
.	.	.	.	.	.	.
.	.	.	.	.	.	.
A	06/13/25	ISSUE FOR BID	MF	NF	NF	NF

DRAWN BY MF
ENGR BY NF
CHECKED BY NF
APVD BY

ELEC. REF. FILE:
PLOT SCALE:

- ☐ CONCEPT
- ☐ FOR REVIEW
- ■ FOR BID
- ☐ FOR MANUFACTURE
- ☐ FOR CONSTRUCTION
- ☐ FOR RECORD

ALLIANCE CONSULTING ENGINEERS
720-205-8447

Port of Newport

TITLE
PORT OF NEWPORT
NEWPORT, OR
DOCK 5 & 3 RENOVATION
DOCK DETAILS

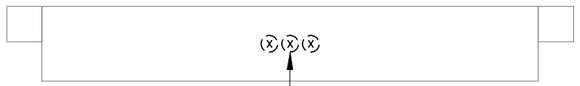
SCALE NO SCALE
DRAWING No. PON-E24-909
SHEET 1 OF 3
REV A

DIMENSIONS UNKNOWN

FUTURE ADDITIONAL 4" CONDUIT (TYP)

A RR1-E10-900 — DOCK 5 GANGWAY SECTION

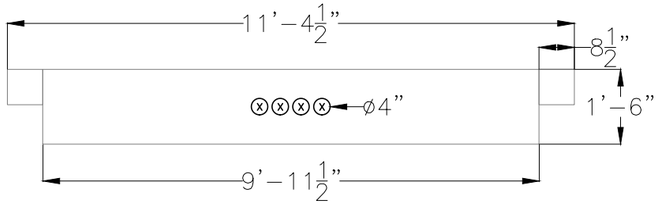
DIMENSIONS UNKNOWN



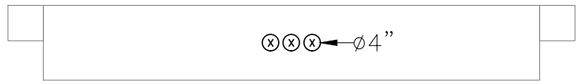
NUMBER OF EXISTING CONDUITS UNKNOWN. CONDUITS SHOWN ARE THE MINIMUM REQUIRED NUMBER OF CONDUITS.

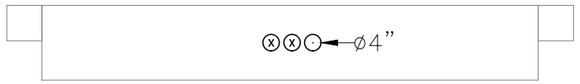
B PON-E10-900 (X) — DOCK 5A SECTION

TYPICAL DIMENSIONS



C PON-E10-900 (X) — DOCK 5B SECTION

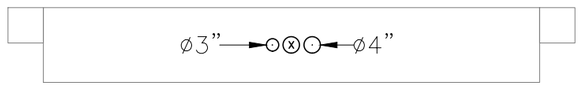




D PON-E10-900 (X) — DOCK 5C SECTION

E PON-E10-900 (X) — DOCK 5D SECTION

F PON-E10-900 (X) — DOCK 5X SECTION



G PON-E10-900 (X) — DOCK 3 SECTION

KEY:

- ⓧ CONDUIT USED FOR THIS PROJECT
- ○ CONDUIT NOT USED FOR THIS PROJECT
- (ⓧ) ADDITIONAL CONDUIT OR PLACEMENT OF CONDUCTORS NEEDED FOR THIS PROJECT

NO.	DATE	REVISION DESCRIPTION	DRAWN BY	ENGR BY	CHECKED BY	APVD BY
.	.	.	.	.	.	.
.	.	.	.	.	.	.
.	.	.	.	.	.	.
A	06/13/25	ISSUE FOR BID	MF	NF	NF	NF

DRAWN BY: MF
ENGR BY: NF
CHECKED BY: NF
APVD BY: .

- ☐ CONCEPT
- ☐ FOR REVIEW
- ■ FOR BID
- ☐ FOR MANUFACTURE
- ☐ FOR CONSTRUCTION
- ☐ FOR RECORD

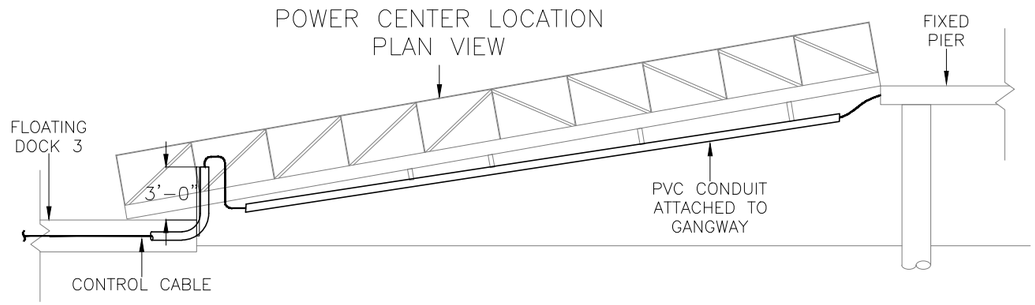
ALLIANCE CONSULTING ENGINEERS
720-205-8447

Port of Newport

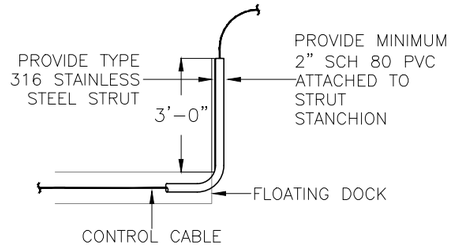
TITLE: PORT OF NEWPORT
NEWPORT, OR
DOCK 5 & 3 RENOVATION
DOCK DETAILS

SCALE: NO SCALE | DRAWING No.: PON-E24-909 | SHEET 2 OF 3 | REV A

ELEC. REF. FILE:
PLOT SCALE:



CONTROL CABLE GANGWAY TO FLOATING DOCK DETAIL
NOT TO SCALE



ELEC. REF. FILE:
PLOT SCALE:

NO.	DATE	REVISION DESCRIPTION	DRAWN BY	ENGR BY	CHECKED BY	APVD BY
.	.	.	.	.	.	.
.	.	.	.	.	.	.
.	.	.	.	.	.	.

No.	DATE	REVISION DESCRIPTION	DRAWN BY	ENGR BY	CHECKED BY	APVD BY
A	06/13/25	ISSUE FOR BID	MF	NF	NF	NF

DRAWN BY	MF
ENGR BY	NF
CHECKED BY	NF
APVD BY	

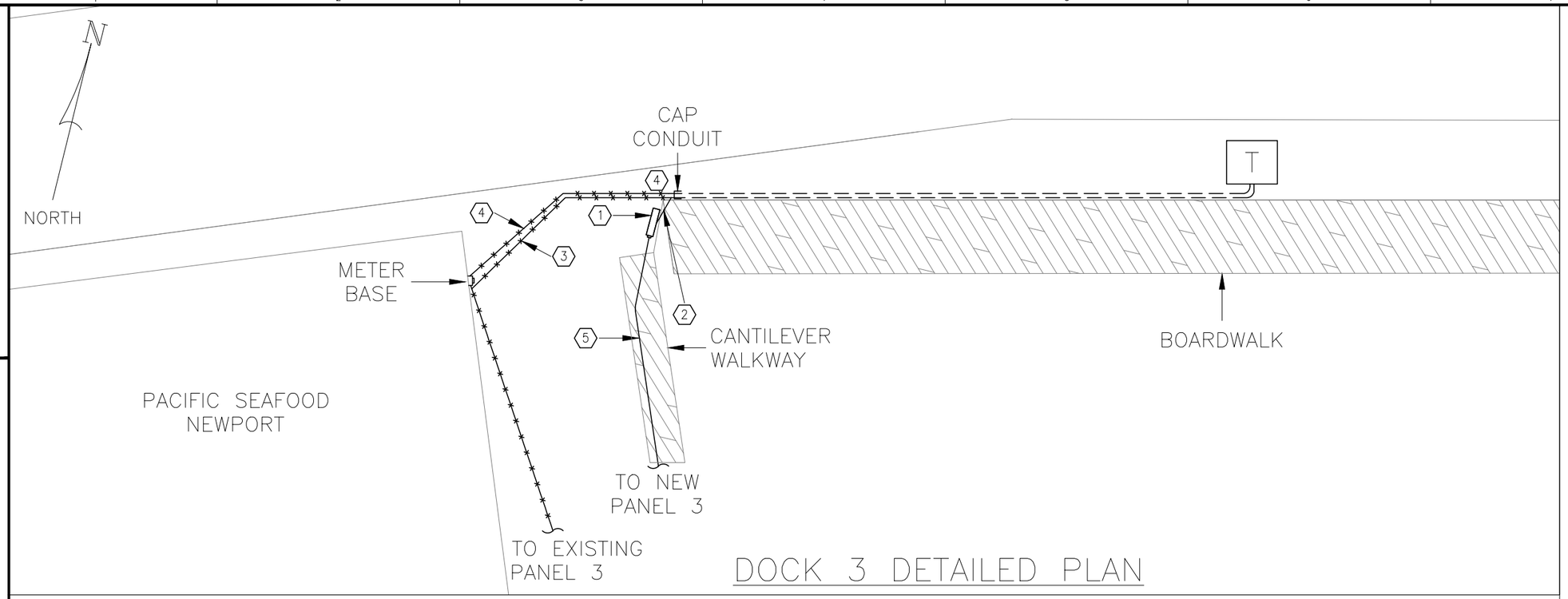
- ☐ CONCEPT
- ☐ FOR REVIEW
- ■ FOR BID
- ☐ FOR MANUFACTURE
- ☐ FOR CONSTRUCTION
- ☐ FOR RECORD

ALLIANCE CONSULTING ENGINEERS
720-205-8447

Port of Newport

TITLE
PORT OF NEWPORT
NEWPORT, OR
DOCK 5 & 3 RENOVATION
DOCK DETAILS

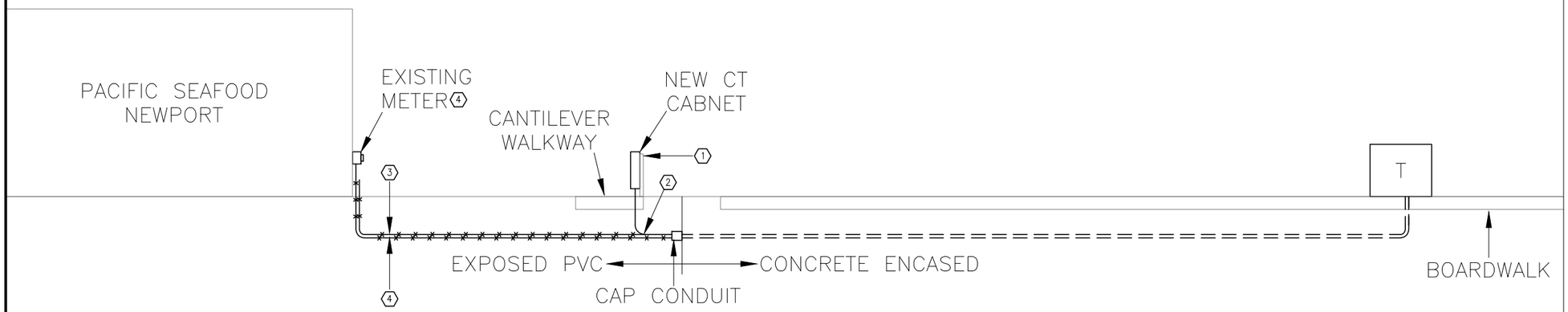
SCALE	DRAWING No.	SHEET	OF	REV
NO SCALE	PON-E24-909	3	3	A



DOCK 3 DETAILED PLAN

KEY NOTES

1. PROVIDE NEW CT CABINET AND METER BASE ON CANTILEVERED WALKWAY RAILING PER CENTRAL LINCOLN PUD REQUIREMENTS.
2. INTERCEPT EXISTING SPARE CONDUIT. REROUTE TO NEW CT CABINET.
3. DEMOLISH SPARE CONDUIT AFTER INTERCEPT POINT.
4. AFTER NEW ELECTRIC SERVICE IS INSTALLED:
   - A. DEMOLISH ALL SERVICE CONDUCTORS.
   - B. DEMOLISH EXISTING METER BASE
   - C. CAP EXPOSED CONDUIT UNDER CANTILEVERED WALKWAY. LEAVE CONCRETE ENCASED DUCT FOR FUTURE USE.
5. PROVIDE NEW SERVICE FEEDER MOUNTED ON BOTTOM OF CANTILEVERED WALKWAY.



ELEVATION VIEW

NO.	DATE	REVISION DESCRIPTION	DRAWN BY	ENGR BY	CHECKED BY	APVD BY
.	.	.	.	.	.	.
.	.	.	.	.	.	.
.	.	.	.	.	.	.
A	06/13/25	ISSUE FOR BID	MF	NF	NF	NF

DRAWN BY: MF
ENGR BY: NF
CHECKED BY: NF
APVD BY:

ELEC. REF. FILE:
PLOT SCALE:

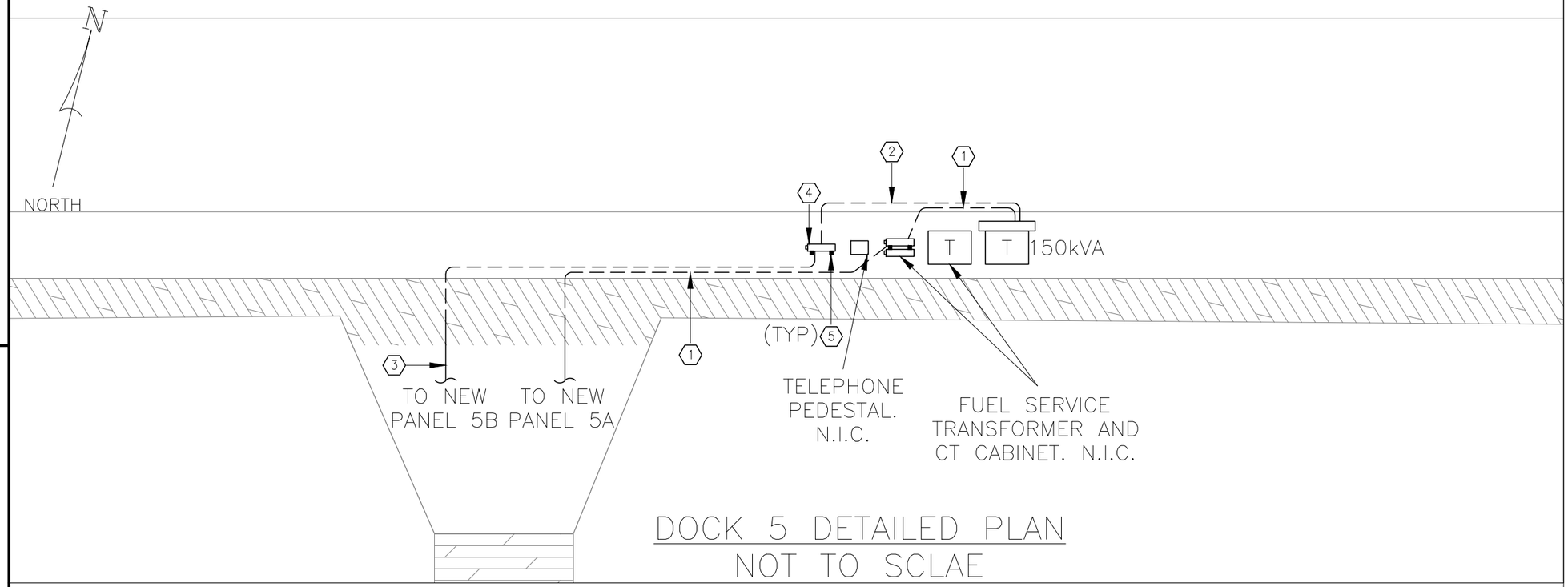
- ☐ CONCEPT
- ☐ FOR REVIEW
- ■ FOR BID
- ☐ FOR MANUFACTURE
- ☐ FOR CONSTRUCTION
- ☐ FOR RECORD

ALLIANCE CONSULTING ENGINEERS
720-205-8447

Port of Newport

TITLE
PORT OF NEWPORT
NEWPORT, OR
DOCK 5 & 3 RENOVATION
DETAILS DOCK 3

SCALE: NO SCALE
DRAWING No.: PON-E24-911
SHEET: 1 OF 1
REV: A



DOCK 5 DETAILED PLAN
NOT TO SCLAE

KEY NOTES

1. USE (2) EXISTING DUCTS TO FEED NEW PANEL 5A WITH NEW SERVICE CONDUCTORS. PROVIDE NEW CT CABINET AND METER BASE PER CENTRAL LINCOLN PUD REQUIREMENTS.
2. EXTEND/SHORTEN (2) EXISTING DUCTS TO FEED NEW CT CABINET AND NEW PANEL 5B.
3. REMOVE (2) EXISTING PLUGS FROM SPARE DUCTS. EXTEND CONDUITS TO NEW PANEL 5B.
4. PROVIDE NEW CT CABINET AND METER BASE PER CENTER LINCOLN PUD REQUIREMENTS.
5. PROVIDE NEW CT CABINET SUPPORTS FOR ALL EXISTING AND NEW CT CABINETS.

NO.	DATE	REVISION DESCRIPTION	DRAWN BY	ENGR BY	CHECKED BY	APVD BY
.	.	.	.	.	.	.
.	.	.	.	.	.	.
.	.	.	.	.	.	.

No.	DATE	REVISION DESCRIPTION	DRAWN BY	ENGR BY	CHECKED BY	APVD BY
A	06/13/25	ISSUE FOR BID	MF	NF	NF	NF

DRAWN BY	MF
ENGR BY	NF
CHECKED BY	NF
APVD BY	.

- ☐ CONCEPT
- ☐ FOR REVIEW
- ■ FOR BID
- ☐ FOR MANUFACTURE
- ☐ FOR CONSTRUCTION
- ☐ FOR RECORD

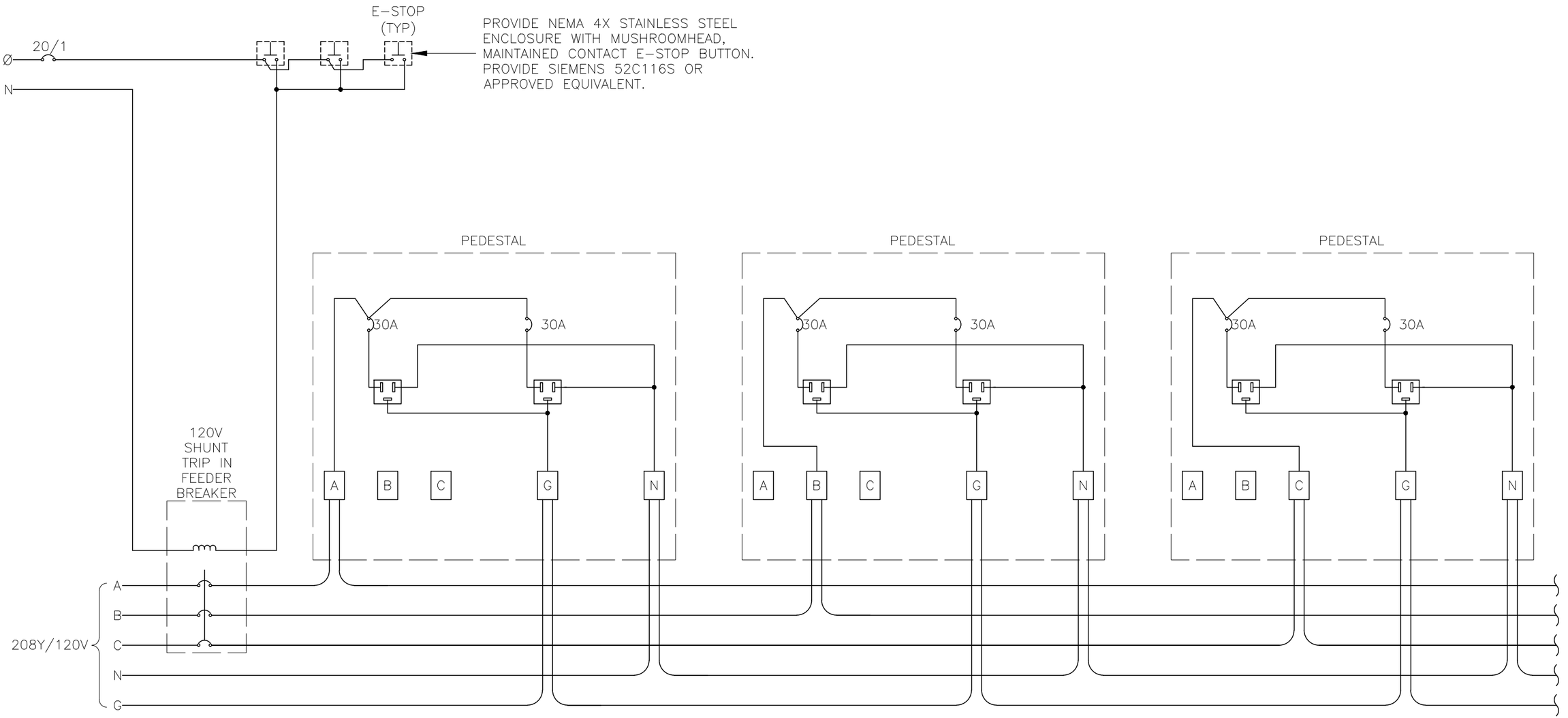
ELEC. REF. FILE:
PLOT SCALE:

ALLIANCE CONSULTING ENGINEERS
720-205-8447

Port of Newport

TITLE
PORT OF NEWPORT
NEWPORT, OR
DOCK 5 & 3 RENOVATION
DETAILS DOCK 5

SCALE	DRAWING No.	SHEET	OF	REV
NO SCALE	PON-E24-912	1	1	A



TYPICAL WIRING DIAGRAM

NO.	DATE	REVISION DESCRIPTION	DRAWN BY	ENGR BY	CHECKED BY	APVD BY
.	.	.	.	.	.	.
.	.	.	.	.	.	.
.	.	.	.	.	.	.
A	06/13/25	ISSUE FOR BID	MF	NF	NF	NF

DRAWN BY	MF
ENGR BY	NF
CHECKED BY	NF
APVD BY	.

☐ CONCEPT
☐ FOR REVIEW
■ FOR BID
☐ FOR MANUFACTURE
☐ FOR CONSTRUCTION
☐ FOR RECORD

ALLIANCE CONSULTING ENGINEERS
720-205-8447

Port of Newport

TITLE: PORT OF NEWPORT
NEWPORT, OR
DOCK 5 & 3 RENOVATION
WIRING DIAGRAM

SCALE	DRAWING No.	SHEET	OF	REV
NO SCALE	PON–E50–930	1	1	A

ELEC. REF. FILE:
PLOT SCALE: