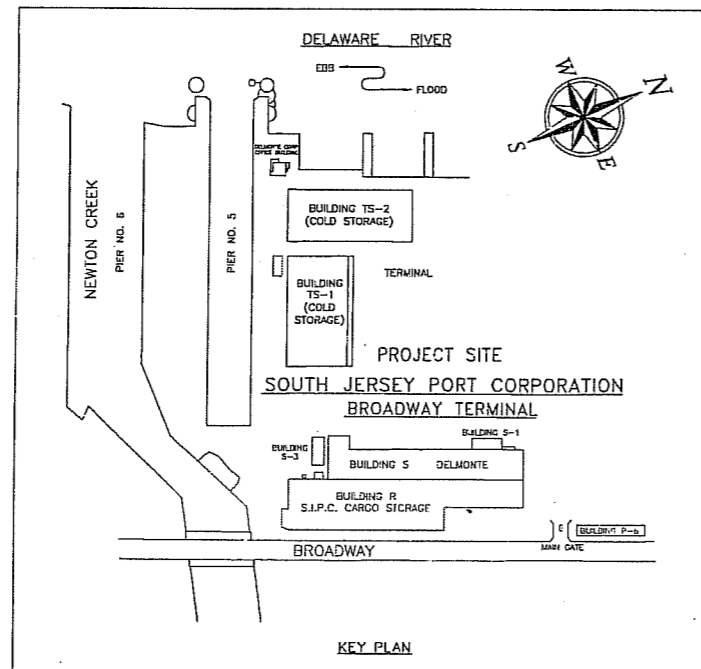


SOUTH JERSEY PORT CORPORATION

PIER No.5 CATHODIC PROTECTION SYSTEM

AT BROADWAY TERMINAL

CAMDEN, NEW JERSEY



INDEX OF DRAWINGS		
DWG. No.	TITLE	REV. No.
GENERAL		
T-1	TITLE AND APPROVAL SHEET	0
CATHODIC PROTECTION		
CP-1	PLAN VIEW OF C.P. SYSTEM - PIER 5 - SHT. 1	0
CP-2	PLAN VIEW OF C.P. SYSTEM - PIER 5 - SHT. 2	0
CP-3	SCHEMATIC - PIER 5	0
CP-4	ELEVATION	0
CP-5	CATHODIC PROTECTION DETAILS - SHT. 1	0
CP-6	CATHODIC PROTECTION DETAILS - SHT. 2	0
CP-7	CATHODIC PROTECTION DETAILS - SHT. 3	0

REFERENCE DRAWINGS:

PIER No. 5 RECONSTRUCTION, FILE Sp-2231,
CONTRACT H-5875, DATED 12-13-04

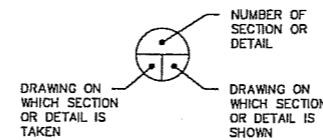
CATHODIC PROTECTION LEGEND

- CATHODIC PROTECTION RECTIFIER
- RECTIFIER JUNCTION BOX
- ANODE TEST BOX
- ANODE JUNCTION BOX
- HIGH SILICON CAST IRON TUBULAR ANODE
- COPPER COPPER SULFATE REFERENCE ELECTRODE
- #2 AWG POSITIVE ANODE HEADER WIRE
- #2 AWG STRUCTURE NEGATIVE WIRE
- #14 AWG REFERENCE ELECTRODE WIRE
- #10 AWG TEST WIRE
- CONTINUITY BONDING BAR
- CONTINUITY BONDING JUMPER

CATHODIC PROTECTION ABBREVIATIONS

- C.P. - CATHODIC PROTECTION
- AWG - AMERICAN WIRE GAUGE
- RECT. - RECTIFIER
- J.B. - JUNCTION BOX
- T.S. - TEST STATION
- CuCuSO4 - COPPER COPPER SULFATE

SECTION & DETAIL KEY



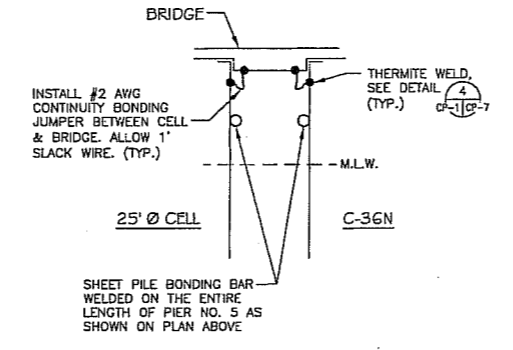
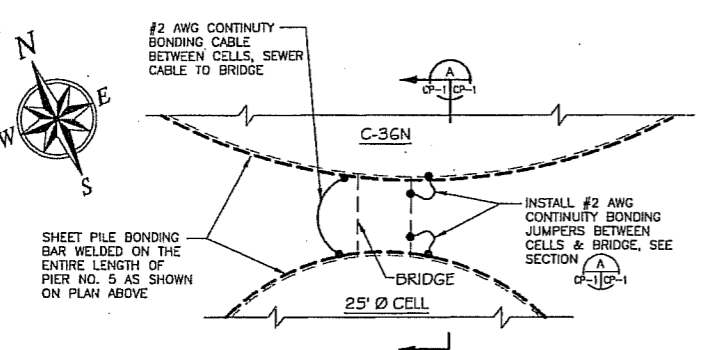
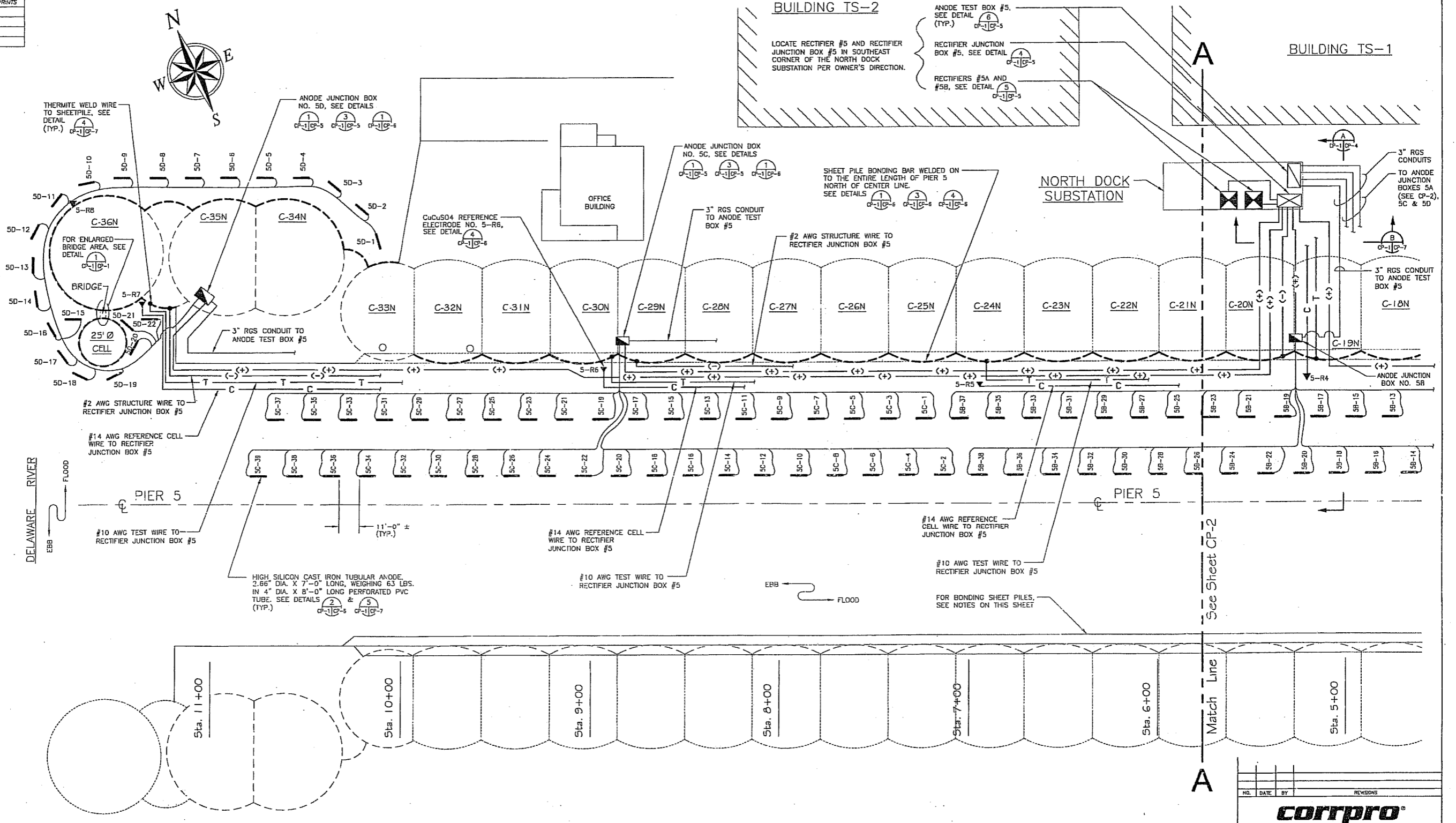
GENERAL NOTES:

- ALL ANODES AND SYSTEM COMPONENTS SHALL BE LOCATED AS SHOWN. NO RELOCATIONS SHALL BE MADE WITHOUT APPROVAL OF THE ENGINEER.
- ALL RECTIFIERS AND JUNCTION BOXES SHALL BE INSTALLED SO AS TO BE EASILY ACCESSED FOR TESTING AND MAINTENANCE.
- ALL STEEL PILES SHALL BE MADE ELECTRICALLY CONTINUOUS BY THE INSTALLATION OF BONDING JUMPERS AND BONDING BARS AS SHOWN.
- ALL CONDUIT PENETRATIONS INTO ALL UNDERGROUND CONCRETE PULL BOXES MUST BE WATER TIGHT.
- PRIOR TO CONSTRUCTION, THE CONTRACTOR SHALL VERIFY THE LOCATION OF ALL EXISTING BURIED UNDERGROUND AND EMBEDDED UTILITIES AT THE CONSTRUCTION SITE.
- CONTRACTOR SHALL PROTECT AND AVOID DAMAGE TO ALL UTILITIES AT THE CONSTRUCTION SITE. ALL EXISTING UTILITIES DAMAGED BY WORK UNDER THIS CONTRACT SHALL BE RESTORED TO THE SATISFACTION OF THE SOUTH JERSEY PORT CORPORATION (SJPC) AT NO ADDITIONAL COST TO THE SJPC.
- ALL CONDUITS CONTAINING WIRES SHALL BE SEALED WITH LIQUID TIGHT SEALANT AT EACH END OF THE CONDUIT. ALL CONDUITS ENTERING ELECTRICAL EQUIPMENT SHALL BE SEALED IN A MANNER THAT WILL EXCLUDE MOISTURE FROM THE RESPECTIVE ENCLOSURE.

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1380 Enterprise Drive West Chester, PA 19380 Office: (610) 344-7002 www.corpro.com							
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SOUTH JERSEY PORT CORPORATION							
BROADWAY TERMINAL CAMDEN, NEW JERSEY							
CATHODIC PROTECTION SYSTEM PIER 5							
TITLE AND APPROVAL SHEET KEY PLAN, LEGEND, ABBREVIATIONS GENERAL NOTES AND DRAWING INDEX							
DESIGNED BY:	A. MUJEEB	CORPRO JOB NO.	402028				
DRAWN BY:	K. KELLY	SCALE:	NONE				
CHECKED BY:	T. KENNEDY	SHEET	1 OF 8				
APPROVED BY:	K. YOUNG	DATE:	02/03/09	REV.			
				DWG. NO.	T-1	REV.	0

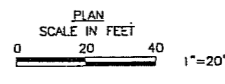
LUCAS 1/10/09

ALL DIMENSIONS UNLESS OTHERWISE SPECIFIED SHALL BE IN INCHES. DIMENSIONS IN PARENTHESES ARE FOR INFORMATION ONLY. DIMENSIONS IN PARENTHESES ARE FOR INFORMATION ONLY. DIMENSIONS IN PARENTHESES ARE FOR INFORMATION ONLY.



NOTES:

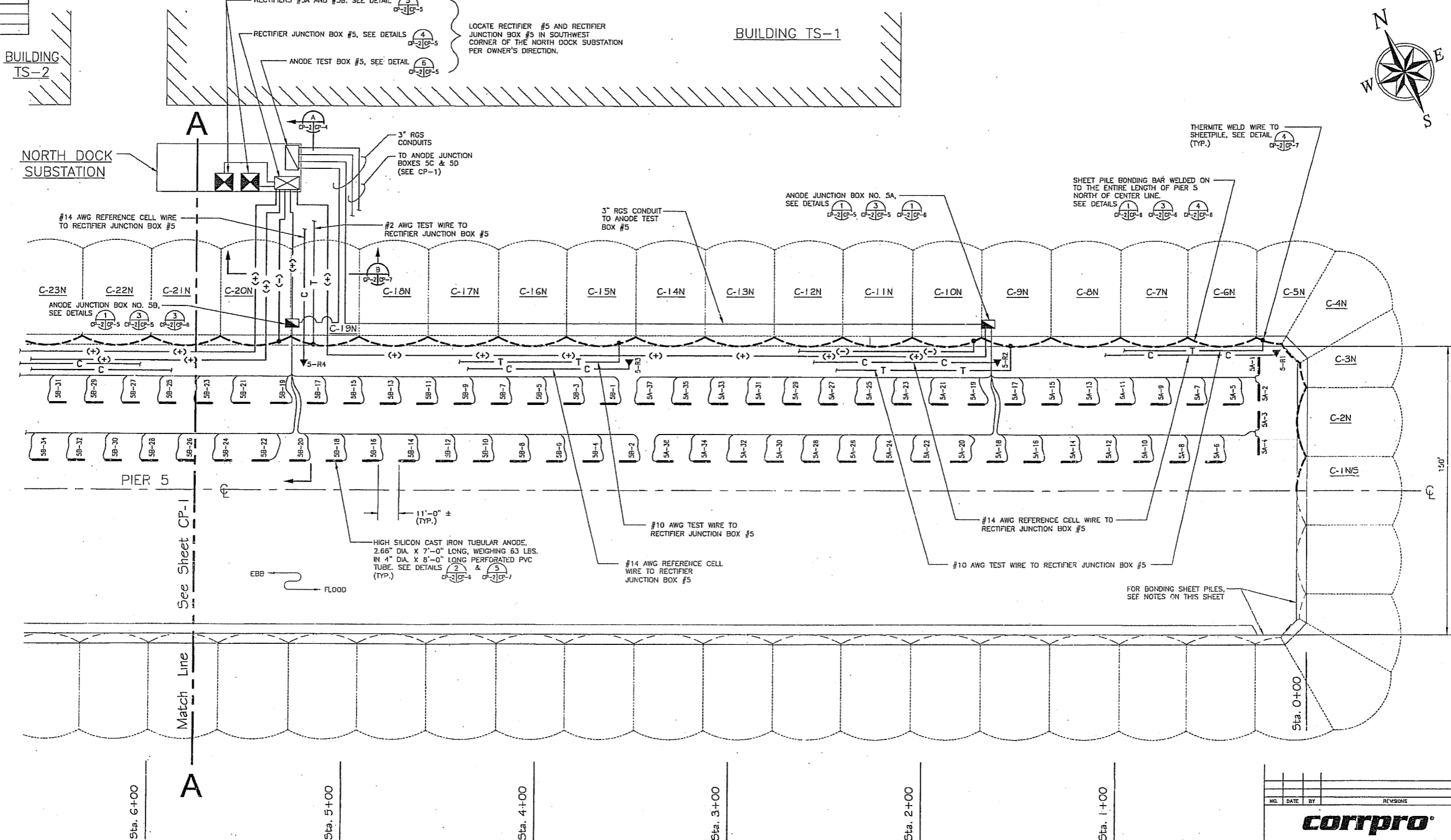
- CATHODIC PROTECTION (CP) CABLE AND CONDUIT RUNS SHOWN SCHEMATICALLY. CONTRACTOR TO SUBMIT SHOP DRAWINGS FOR ACTUAL CP CABLE AND CONDUIT RUNS FOR APPROVAL BY THE OWNER.
- RECTIFIER, JUNCTION BOXES NOT TO SCALE.
- BOND ALL CELLULAR AND ARC SHEET PILES NORTH OF PIER 5 CENTER LINE TO MAKE THEM ELECTRICALLY CONTINUOUS WITH EACH OTHER.
- CONTINUITY BONDING OF SHEETPIILING SEGMENTS SOUTH OF PIER 5 CENTER LINE SHALL BE PERFORMED WHEN THE SYSTEM IS ENERGIZED, TESTING SHALL BE CONDUCTED TO VERIFY THAT ALL INTENDED STRUCTURES ARE RECEIVING SUFFICIENT CATHODIC PROTECTION CURRENT. ANY AREAS REQUIRING ADDITIONAL ELECTRICAL CONTINUITY CAN BE BONDED TO AUGMENT THE ELECTRICAL CONTINUITY BONDING SYSTEM.
- ALL SHEETPIILING SEGMENTS WITHIN PIER 5 SHALL BE ELECTRICALLY CONTINUOUS WITH EACH OTHER.



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SOUTH JERSEY PORT CORPORATION			
BROADWAY TERMINAL CAMDEN, NEW JERSEY			
CATHODIC PROTECTION SYSTEM PIER 5			
PLAN VIEW OF CP SYSTEM - SHT. 1			
DESIGNED BY:	A. WILKIE	CORPRO JOB NO.	402328
DRAWN BY:	D. JACKSON	SCALE:	AS NOTED
CHECKED BY:	T. KIDNEY	SHEET:	2 OF 8
APPROVED BY:	M. YOUNG	DWG. NO.:	CP-1
DATE:	02/03/09	REV.:	0

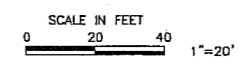
SHEET CODE - 2004-114

REVISED: 02/03/09 (REVISED) DATE: 02/03/09



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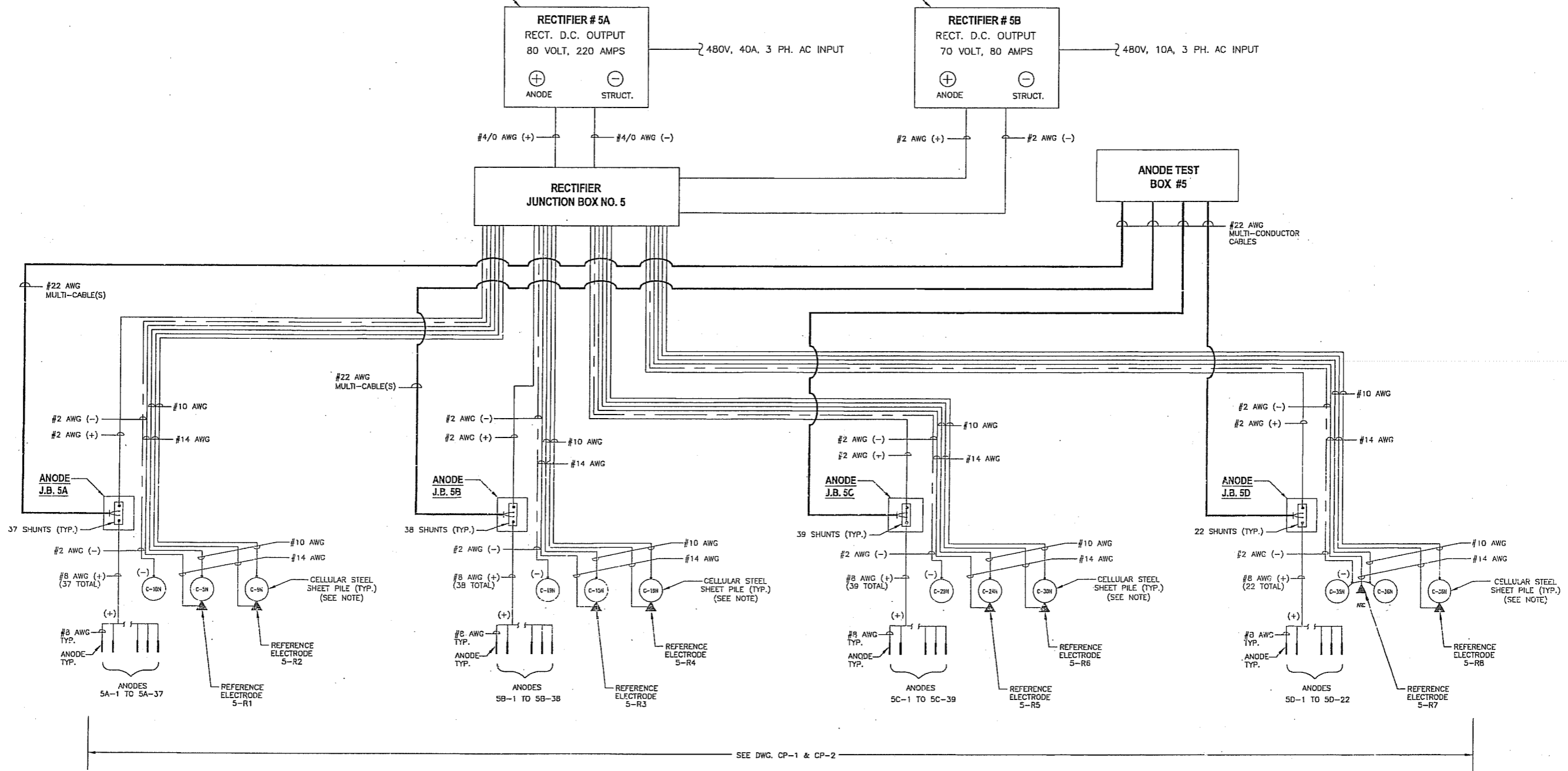
- CATHODIC PROTECTION (CP) CABLE AND CONDUIT RUNS SHOWN SCHEMATICALLY. CONTRACTOR TO SUBMIT SHOP DRAWINGS FOR ACTUAL CP CABLE AND CONDUIT RUNS FOR APPROVAL BY THE OWNER.
- RECTIFIER, JUNCTION BOXES NOT TO SCALE.
- BOND ALL CELLULAR AND ARC SHEET PILES NORTH OF PIER 5 CENTER LINE TO MAKE THEM ELECTRICALLY CONTINUOUS WITH EACH OTHER.
- CONTINUITY BONDING OF SHEETPILING SEGMENTS SOUTH OF PIER 5 CENTER LINE SHALL BE PERFORMED WHEN THE SYSTEM IS ENERGIZED, TESTING SHALL BE CONDUCTED TO VERIFY THAT ALL INTENDED STRUCTURES ARE RECEIVING SUFFICIENT CATHODIC PROTECTION CURRENT. ANY AREAS REQUIRING ADDITIONAL ELECTRICAL CONTINUITY CAN BE BONDED TO AUGMENT THE ELECTRICAL CONTINUITY BONDING SYSTEM.
- ALL SHEETPILING SEGMENTS WITHIN PIER 5 SHALL BE ELECTRICALLY CONTINUOUS WITH EACH OTHER.



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SOUTH JERSEY PORT CORPORATION			
BROADWAY TERMINAL CAMDEN, NEW JERSEY			
CATHODIC PROTECTION SYSTEM PIER 5			
PLAN VIEW OF CP SYSTEM - SHT. 2			
DESIGNED BY:	A. HILGREN	CORRPRO JOB NO.	402028
DRAWN BY:	D. JACKSON	SCALE:	1"=20'-0"
CHECKED BY:	T. KENNEDY	SHEET	3 OF 8
APPROVED BY:	W. YOUNG	DWG. NO.	CP-2
DATE:	02/03/09	REV.	0

(ASSOCIATED WITH ANODE JUNCTION BOXES 5A, 5B & 5C)

(ASSOCIATED WITH ANODE JUNCTION BOX 5D)



SEE DWG. CP-1 & CP-2

NOTE:
 BONDING BAR AND BONDING JUMPER CABLES FOR ARC AND CELLULAR STEEL SHEET PILE ELECTRICAL CONTINUITY NOT SHOWN FOR CLARITY. FOR REFERENCE, SEE DETAILS ON DWG. CP-1 & CP-6.

corrpro

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SOUTH JERSEY PORT CORPORATION

BROADWAY TERMINAL
 CAMDEN, NEW JERSEY

CATHODIC PROTECTION SYSTEM
 PIER 5

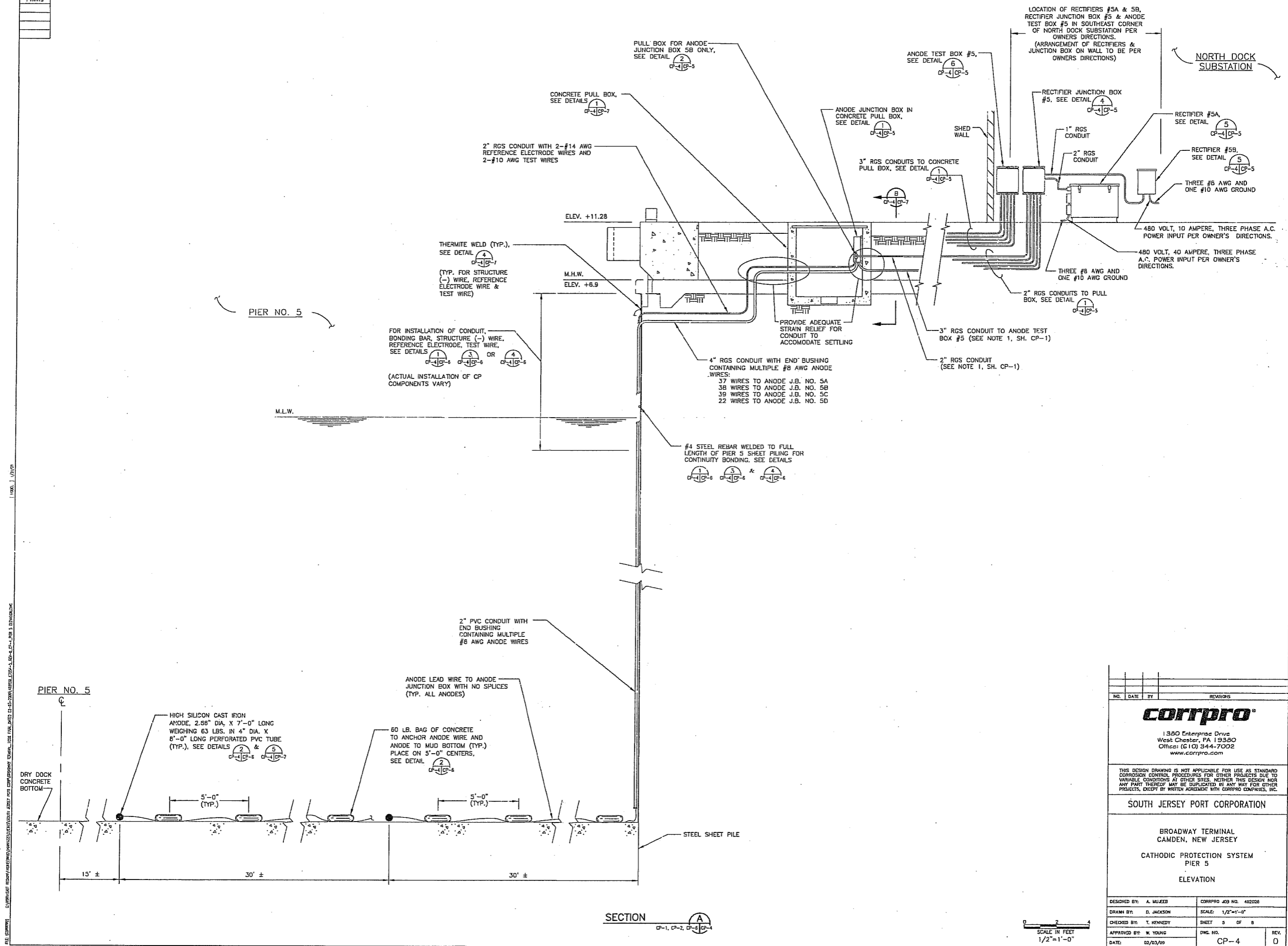
SCHEMATIC

DESIGNED BY: A. MAJEED	CORRPRO JOB NO. 402028
DRAWN BY: D. JACKSON	SCALE: NONE
CHECKED BY: T. KENNEDY	SHEET 4 OF 8
APPROVED BY: R. YOUNG	DRG. NO.
DATE: 02/03/09	REV. 0

NO.	DATE	BY	REVISIONS

TOTAL 1 (1/1)/2

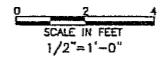
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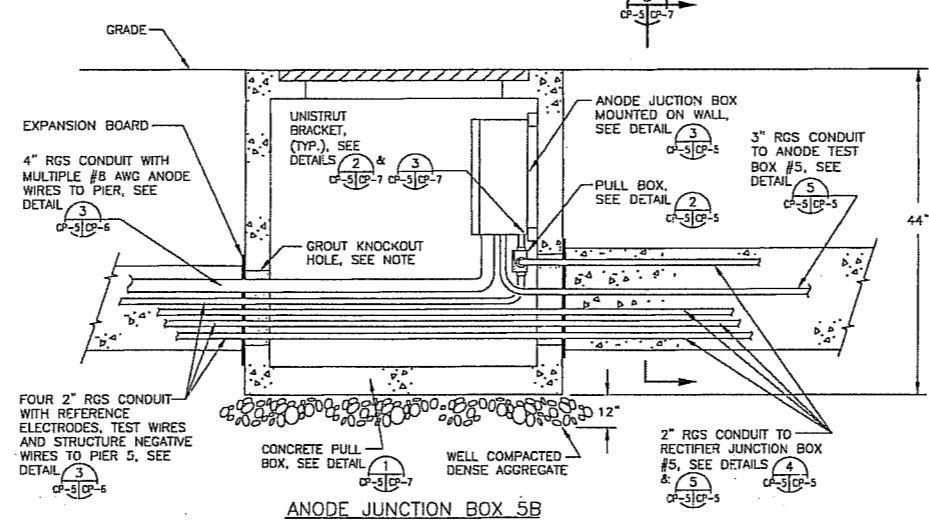
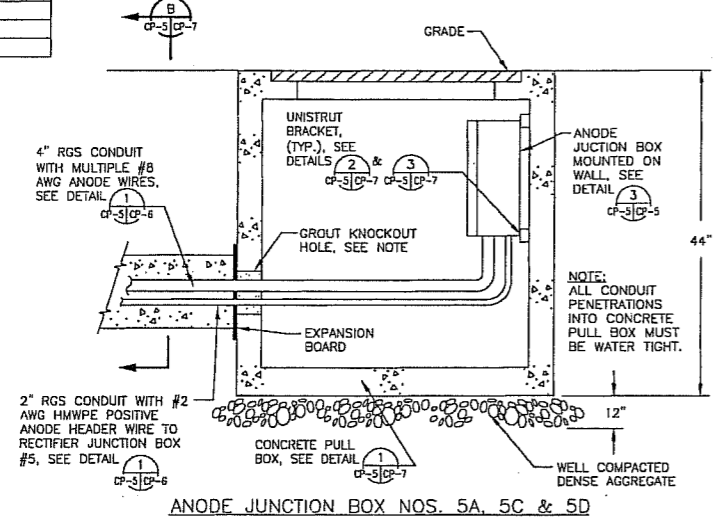


CORRPRO COMPANY
 1380 ENTERPRISE DRIVE
 WEST CHESTER, PA 19380
 OFFICE: (610) 344-7002
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SOUTH JERSEY PORT CORPORATION BROADWAY TERMINAL CAMDEN, NEW JERSEY CATHODIC PROTECTION SYSTEM PIER 5 ELEVATION			
DESIGNED BY:	A. MUJEED	CORRPRO JOB NO.	402028
DRAWN BY:	D. JACKSON	SCALE:	1/2"=1'-0"
CHECKED BY:	T. KENNEDY	SHEET	5 OF 8
APPROVED BY:	K. YOUNG	DWG. NO.	CP-4
DATE:	02/23/09	REV.	0

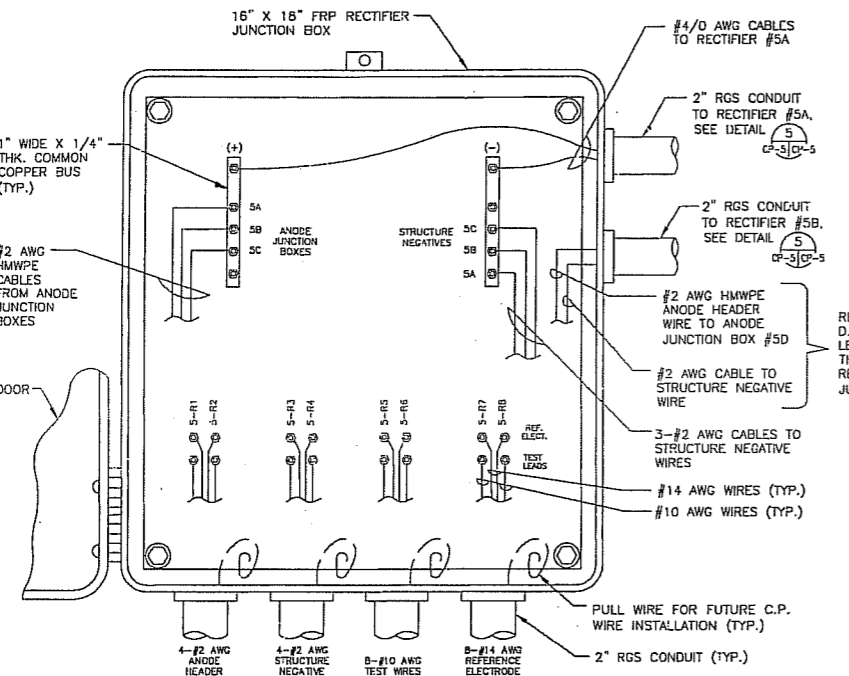
SECTION A-A
 CP-1, CP-2, CP-6, CP-7



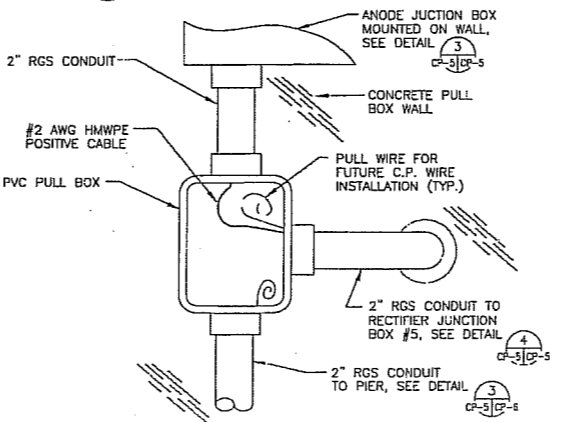


NOTE: ALL CONDUIT PENETRATIONS INTO CONCRETE PULL BOXES MUST BE WATER TIGHT.

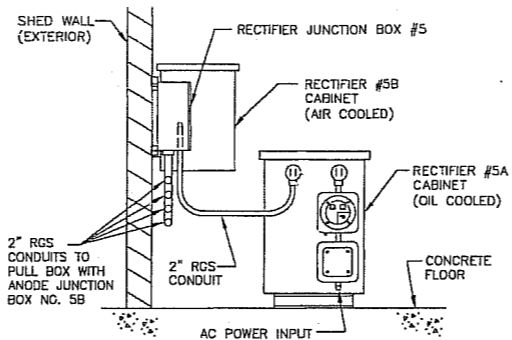
DETAIL
CONCRETE PULL BOX INSTALLATION (TYP.) CP-1, CP-2, CP-4, CP-5, CP-6, CP-7 CP-5



DETAIL
RECTIFIER JUNCTION BOX #5 CP-1, CP-2, CP-4, CP-5 CP-5

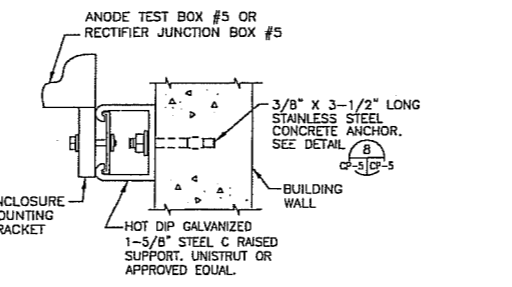


DETAIL
PULL BOX AT ANODE J.B. NO. 5B CP-4, CP-5 CP-5

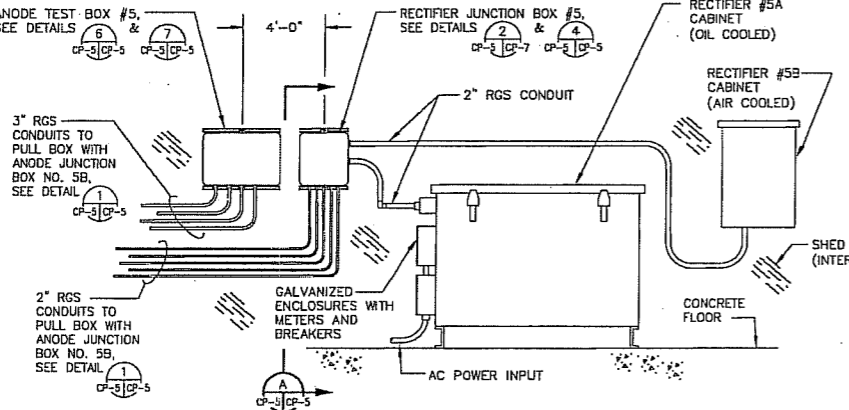


NOTE: INSTALL RECTIFIERS PER MANUFACTURER'S RECOMMENDATIONS.

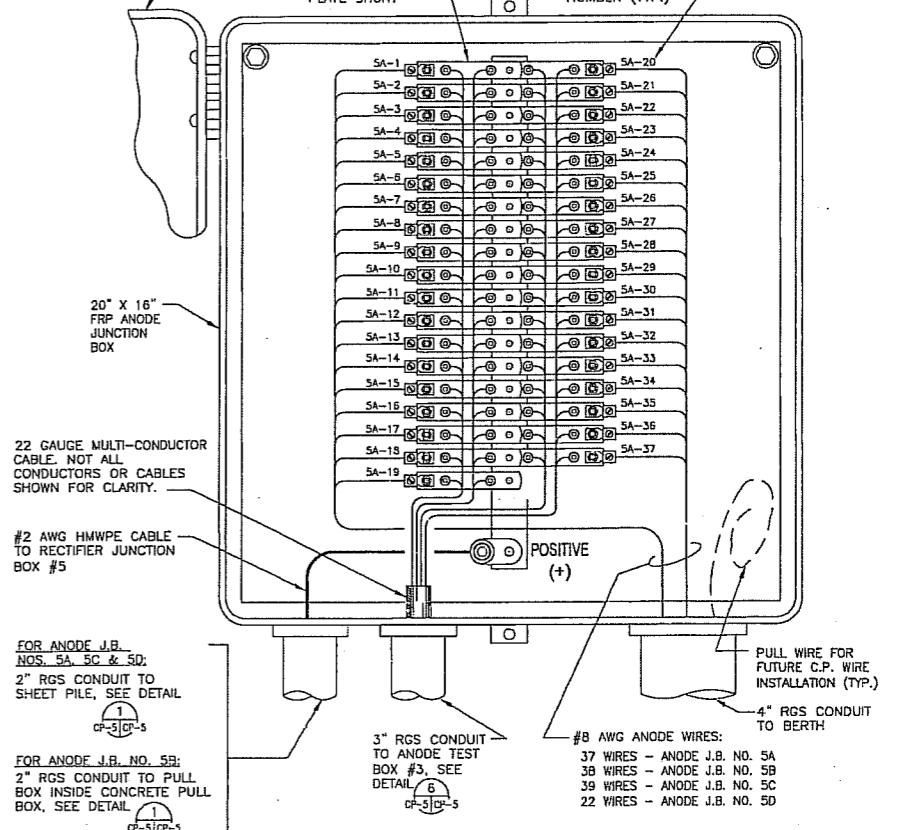
SECTION
RECTIFIER #5A, #5B AND RECTIFIER JUNCTION BOX #5 INSTALLATION CP-5 CP-5



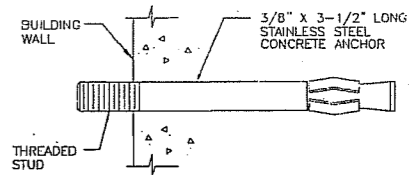
DETAIL
UNISTRUT BRACKET CP-5 CP-5



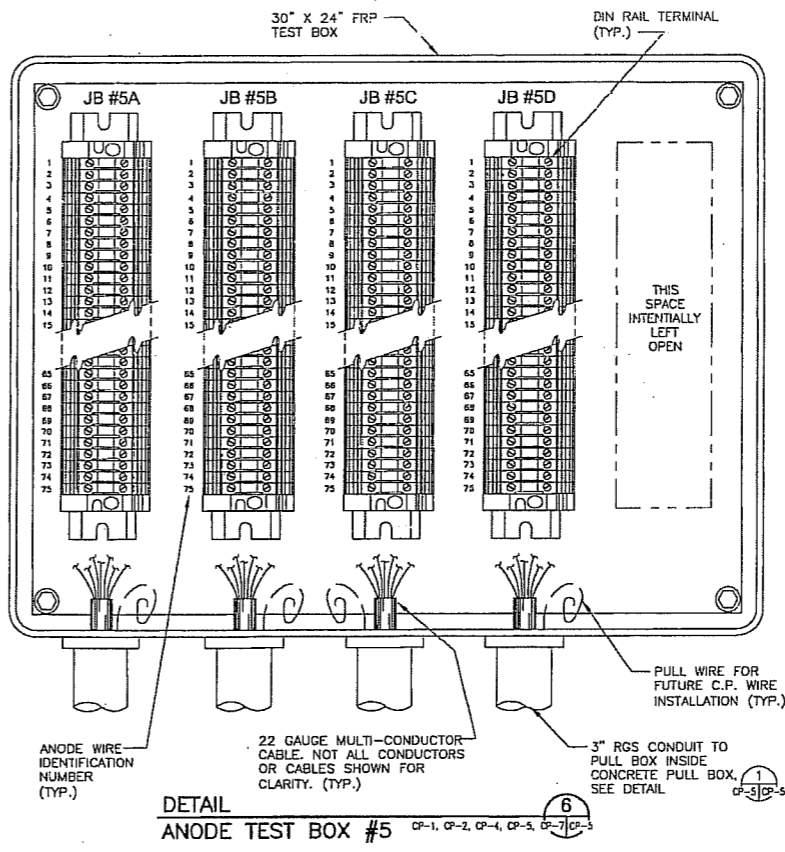
DETAIL
RECTIFIERS #5A & #5B, RECTIFIER JUNCTION BOX #5 AND ANODE TEST BOX #5 INSTALLATION CP-1, CP-2, CP-4, CP-5 CP-5



DETAIL
ANODE JUNCTION BOX #5 (TYP.) CP-1, CP-2, CP-5, CP-6, CP-7 CP-5



DETAIL
STAINLESS STEEL THREADED STUD ANCHOR (TYP.) CP-5 CP-5



DETAIL
ANODE TEST BOX #5 CP-1, CP-2, CP-4, CP-5, CP-7 CP-5

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SOUTH JERSEY PORT CORPORATION			
BROADWAY TERMINAL CAMDEN, NEW JERSEY			
CATHODIC PROTECTION SYSTEM PIER 5 DETAILS - SH. 1			
DESIGNED BY:	A. HAJEB	CORPRO JOB NO.	402028
DRAWN BY:	D. JACKSON	SCALE:	NONE
CHECKED BY:	T. KENNEDY	SHEET	8 OF 8
APPROVED BY:	W. YOUNG	DWG. NO.	CP-5
DATE:	02/03/03	REV.	0

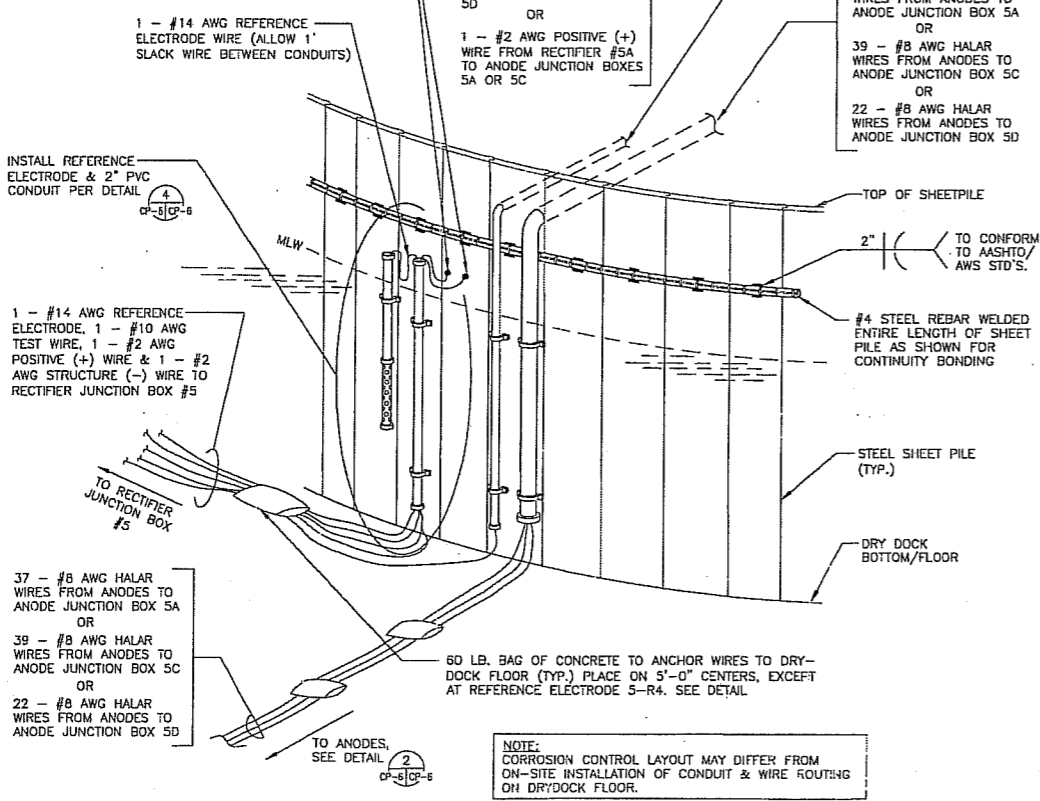
1 - #14 AWG REFERENCE ELECTRODE WIRE (ALLOW 1' SLACK WIRE BETWEEN CONDUITS)

1 - #14 AWG TEST WIRE & 1 - #2 AWG STRUCTURE (-) WIRE TO SHEETPILE, SEE DETAIL (ALLOW 1' SLACK WIRE FROM CONDUIT TO WELDS)

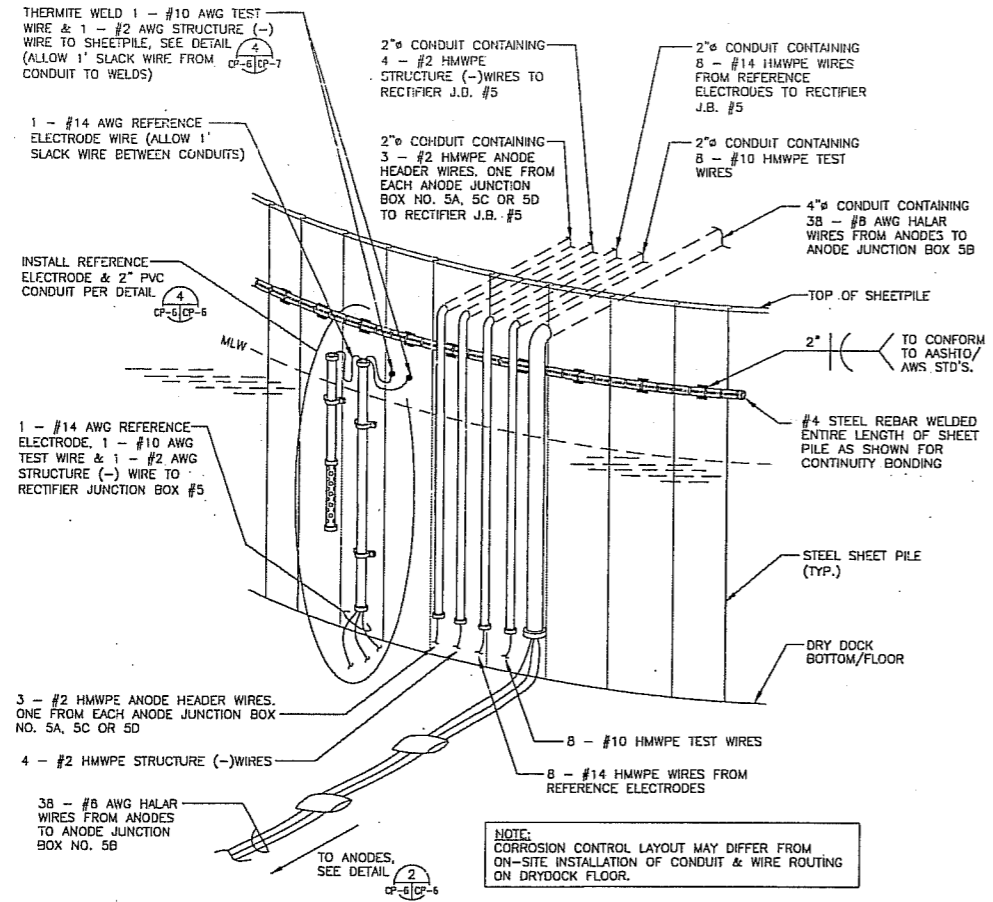
2" CONDUIT CONTAINING EITHER OF THE FOLLOWING:
 1 - #2 AWG POSITIVE (+) WIRE FROM RECTIFIER #5B TO ANODE JUNCTION BOX 5D
 OR
 1 - #2 AWG POSITIVE (+) WIRE FROM RECTIFIER #5A TO ANODE JUNCTION BOXES 5A OR 5C

4" CONDUIT CONTAINING EITHER OF THE FOLLOWING:
 37 - #8 AWG HALAR WIRES FROM ANODES TO ANODE JUNCTION BOX 5A
 OR
 39 - #8 AWG HALAR WIRES FROM ANODES TO ANODE JUNCTION BOX 5C
 OR
 22 - #8 AWG HALAR WIRES FROM ANODES TO ANODE JUNCTION BOX 5D

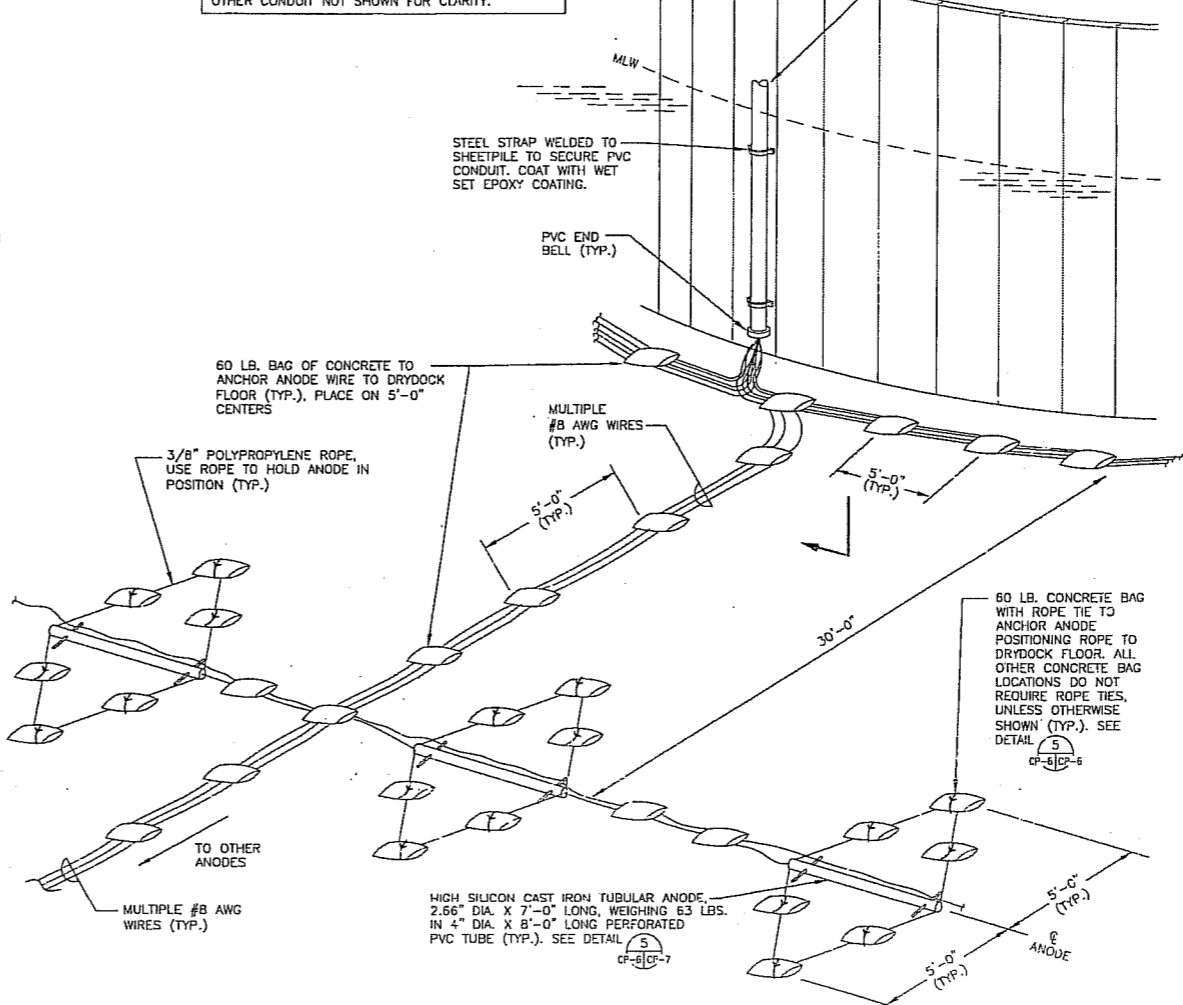
NOTE: CORROSION CONTROL LAYOUT MAY DIFFER FROM ON-SITE INSTALLATION OF CONDUIT & WIRE ROUTING ON DRYDOCK FLOOR. SHEETPILE BONDING BAR & OTHER CONDUIT NOT SHOWN FOR CLARITY.



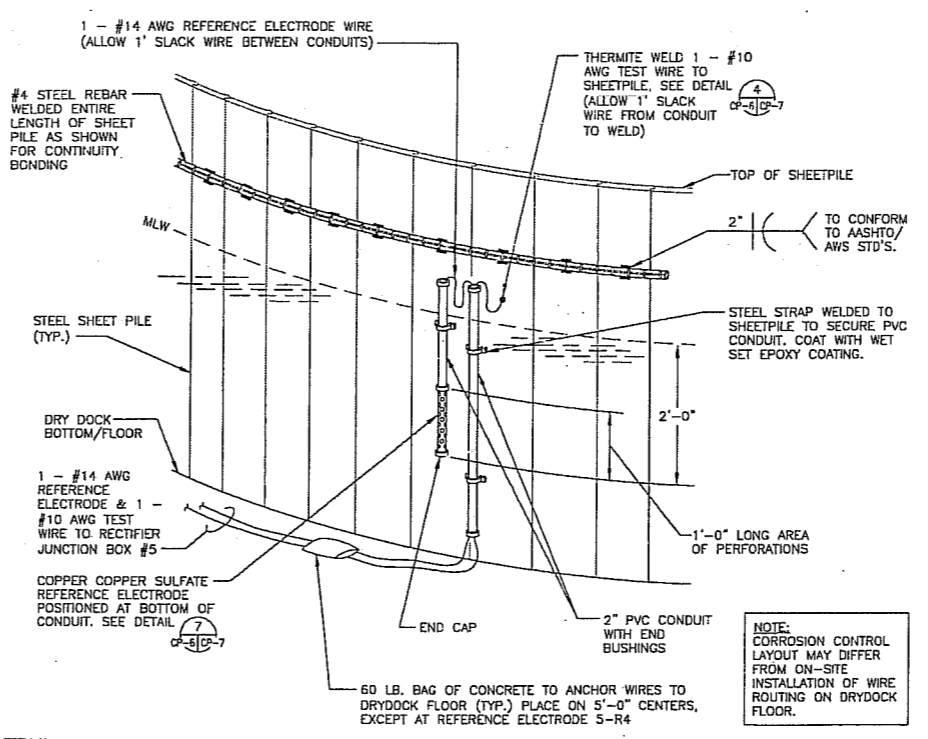
DETAIL
 TYPICAL INSTALLATION FOR ANODE JUNCTION BOX NOS. 5A, 5C & 5D CP-1, CP-2, CP-4, CP-5



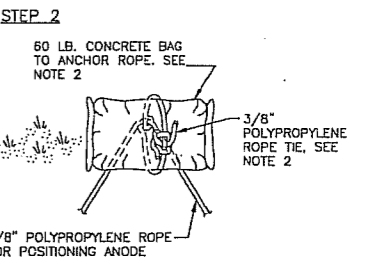
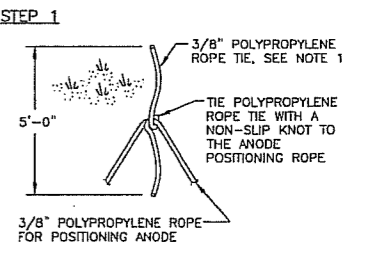
DETAIL
 TYPICAL INSTALLATION FOR ANODE JUNCTION BOX NO. 5B CP-1, CP-2, CP-4, CP-5



DETAIL
 TYPICAL ANODE INSTALLATION CP-1, CP-2, CP-4, CP-5



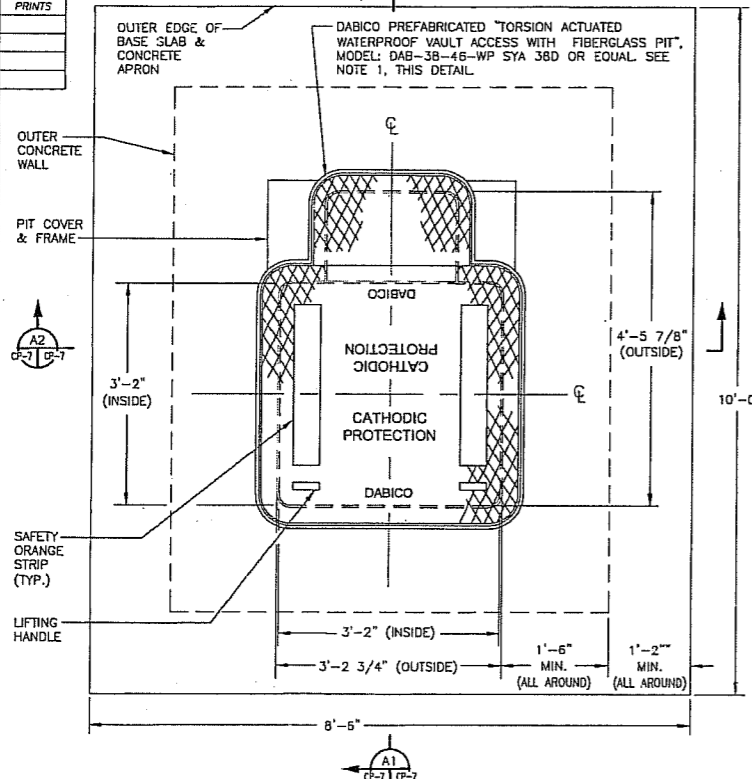
DETAIL
 TYPICAL REFERENCE CELL AND TEST WIRE INSTALLATION FOR SHEET PILING CP-1, CP-2, CP-4, CP-5



- NOTES
1. INSTALL 3/8" POLYPROPYLENE ROPE TIE CENTERED AT ANODE POSITIONING ROPE AND SECURE WITH A NON-SLIP KNOT.
 2. INSTALL CONCRETE BAG CENTERED OVER TIE ROPE & ANODE POSITIONING ROPE.
 3. TIE 3/8" POLYPROPYLENE ROPE TIE WITH A NON-SLIP KNOT ON TOP OF CONCRETE BAG. SNIP OFF EXCESS ROPE ENDS.

DETAIL
 ROPE TIE INSTALLATION AROUND CONCRETE BAG ANCHOR & ANODE POSITIONING ROPE CP-5

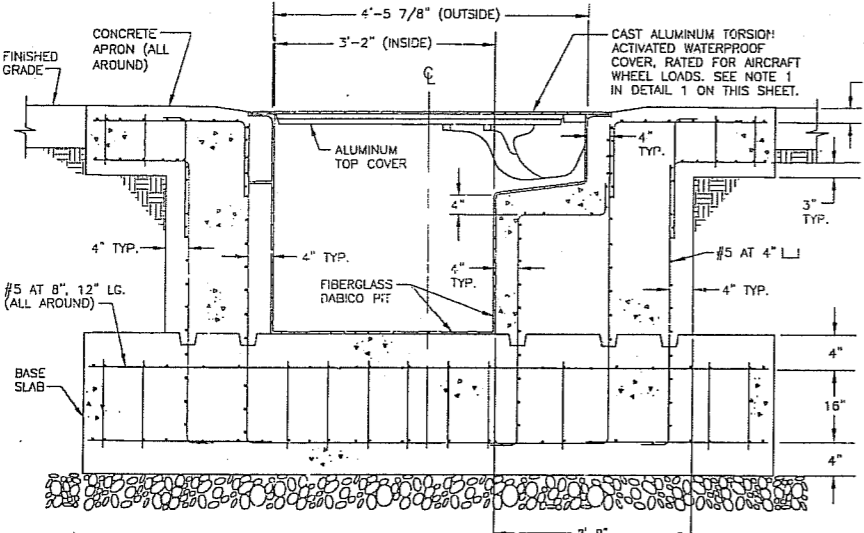
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SOUTH JERSEY PORT CORPORATION			
BROADWAY TERMINAL CAMDEN, NEW JERSEY			
CATHODIC PROTECTION SYSTEM PIER 5.			
DETAILS - SH. 2			
DESIGNED BY:	A. MAJEED	CORRPRO JOB NO.	402028
DRAWN BY:	K. KELLY	SCALE:	NONE
CHECKED BY:	T. KENNEDY	SHEET	7 OF 8
APPROVED BY:	M. YOUNG	DWG. NO.	CP-6
DATE:	02/03/09	REV.	0



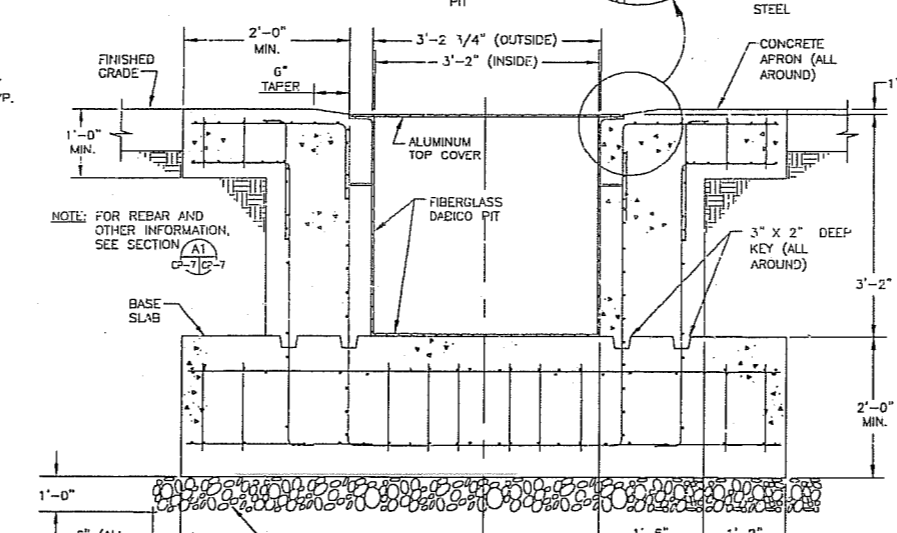
- NOTES: "FOR DETAIL 1 AND SECTIONS A & B ONLY"
- INSTALL PREFABRICATED FIBERGLASS PIT PER MANUFACTURER'S INSTRUCTIONS. CAST ALUMINUM COVER SHALL BE RATED FOR A MINIMUM 200,000 LB. LOAD APPLIED OVER 200 SQUARE INCHES TIRE FOOTPRINT AREAS PLACED ANYWHERE ON THE COVER (1,000 PSI RATING).
 - VERIFY ALL PIT DIMENSIONS FROM MANUFACTURER'S DRAWINGS.
 - CONTRACTOR SHALL SUBMIT FOR APPROVAL BY THE S.J.P.C. ENGINEER CALCULATIONS AND SCALED DRAWINGS PREPARED BY A PROFESSIONAL STRUCTURAL ENGINEER FOR THE CONSTRUCTION AND INSTALLATION OF THE CONCRETE PULL BOX AND FIBERGLASS PIT USING DETAIL 1 ON THIS SHEET AND MANUFACTURER'S SPECIFICATIONS FOR GUIDANCE.
 - ALL PENETRATIONS INTO CONCRETE PULLBOX SHALL BE WATER PROOF.
 - CONCRETE SHALL BE MINIMUM CLASS "B", 4,000 PSI.
 - REBAR SHALL BE ASTM A615, GRADE 60.

- CONSTRUCTION SEQUENCE:
- PLACE DENSE GRADED AGGREGATE AND BASE SLAB.
 - REMOVE SHIPPING I-BEAMS BRACING FROM THE BOTTOM AND SIDES OF THE DABICO PIT. PLACE PIT ON THREE BASE SLAB AND LEVEL USE SHIMS AS REQUIRED.
 - PLACE SLEEVES FOR CONDUIT PENETRATIONS.
 - PLACE EXTERIOR CONCRETE FORMS, REINFORCING STEEL AND POUR CONCRETE.
 - AFTER CONCRETE IS SET, REMOVE FORMS.
 - PLACE WELL-TAMPED BACKFILL FREE OF DEBRIS.
 - RESTORE FINISHED GRADE TO MATCH EXISTING GRADE THICKNESS AND MATERIALS.

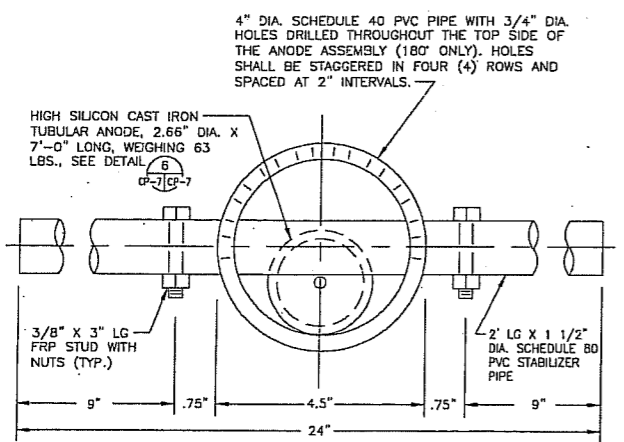
DETAIL 1
CONCRETE PULL BOX (CONCEPTUAL)



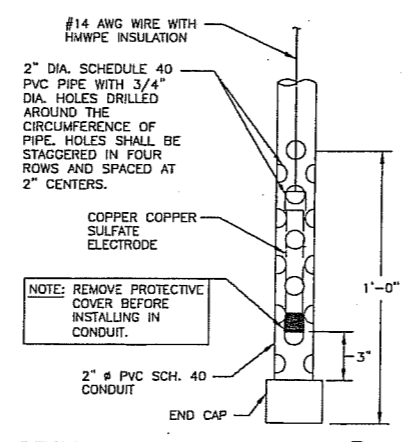
SECTION A1
(CONCEPTUAL)



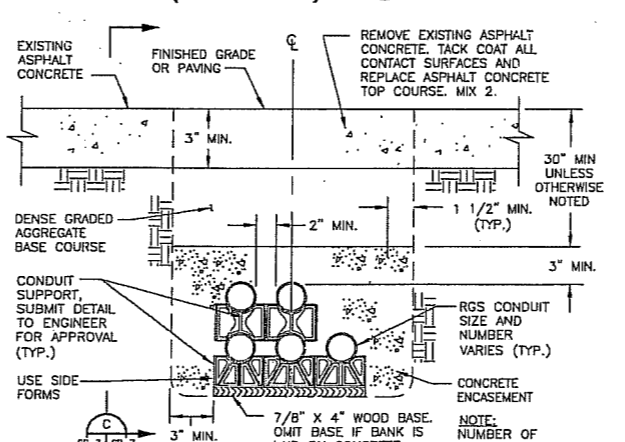
SECTION A2
(CONCEPTUAL)



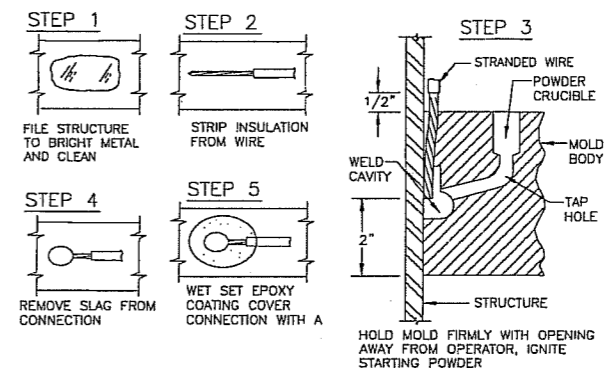
SECTION A
CROSS-SECTION VIEW OF HORIZONTAL ANODE ASSEMBLY



DETAIL 7
COPPER COPPER SULFATE REFERENCE ELECTRODE

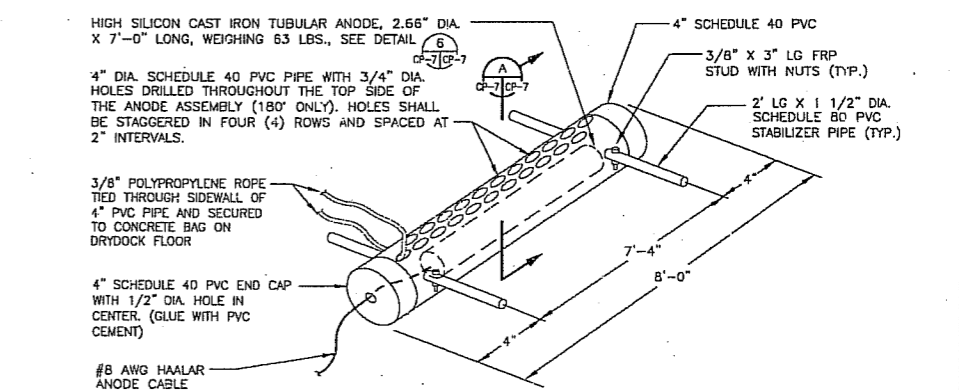


SECTION B
CONDUIT CONCRETE ENCASEMENT

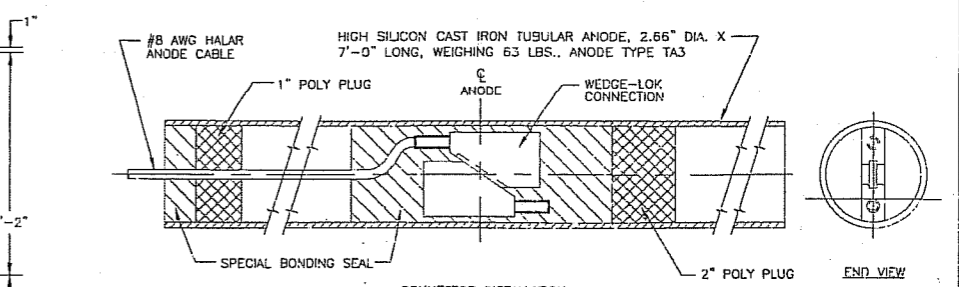


- NOTES: "FOR DETAIL 4 ONLY"
- REMOVE MINIMUM AMOUNT OF AQUATIC/RUST MATERIAL REQUIRED FOR PLACEMENT OF CRUCIBLE ON STRUCTURE. REMOVE MATERIAL BY USE OF TORCH AND KNIFE, NOT BY HAMMERING. (STEPS 1, 2 & 3)
 - AFTER WELD HAS COOLED, REMOVE SLAG, PRIME ENTIRE AREA (STEP 4)
 - WHEN PRIMER HAS DRIED, APPLY WET SET EPOXY COATING (STEP 5)

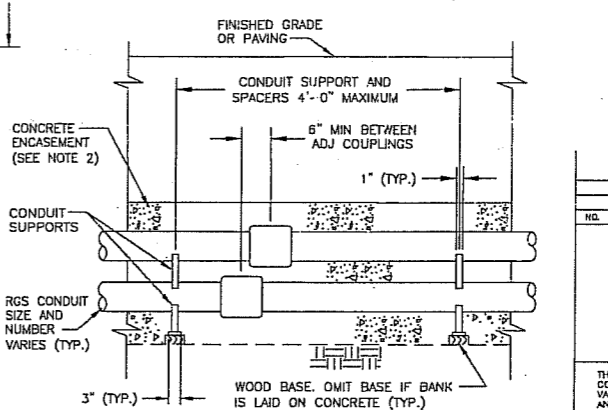
DETAIL 4
VERTICAL THERMITE WELD



DETAIL 5
ANODE ASSEMBLY FOR HORIZONTAL INSTALLATION ON RIVER BOTTOM



DETAIL 6
HIGH SILICON CAST IRON TUBULAR ANODE



SECTION C
CONDUIT CONCRETE ENCASEMENT

NO.	DATE	BY	REVISIONS
corrpro			
1380 Enterprise Drive West Chester, PA 19380 Office: (610) 344-7002 www.corrpro.com			
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SOUTH JERSEY PORT CORPORATION			
BROADWAY TERMINAL CAMDEN, NEW JERSEY			
CATHODIC PROTECTION SYSTEM PIER 5			
DETAILS - SH. 3			
DESIGNED BY:	A. WILKES	CORRPRO JOB NO.	402216
DRAWN BY:	D. JACKSON	SCALE:	NONE
CHECKED BY:	T. KANEVY	SHEET	8 OF 8
APPROVED BY:	K. YOUNG	CWG NO.	CP-7
DATE:	02/03/09	REV.	0