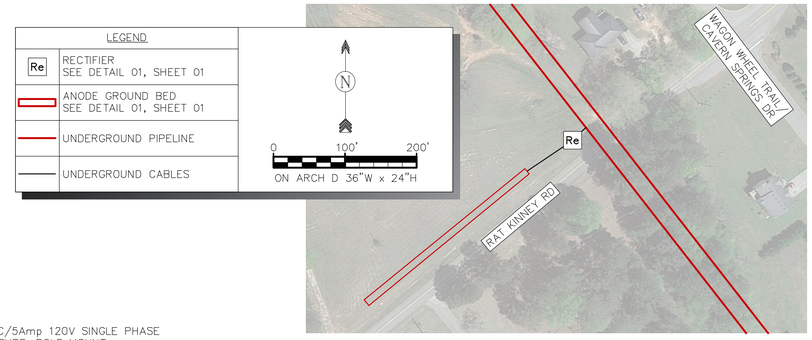
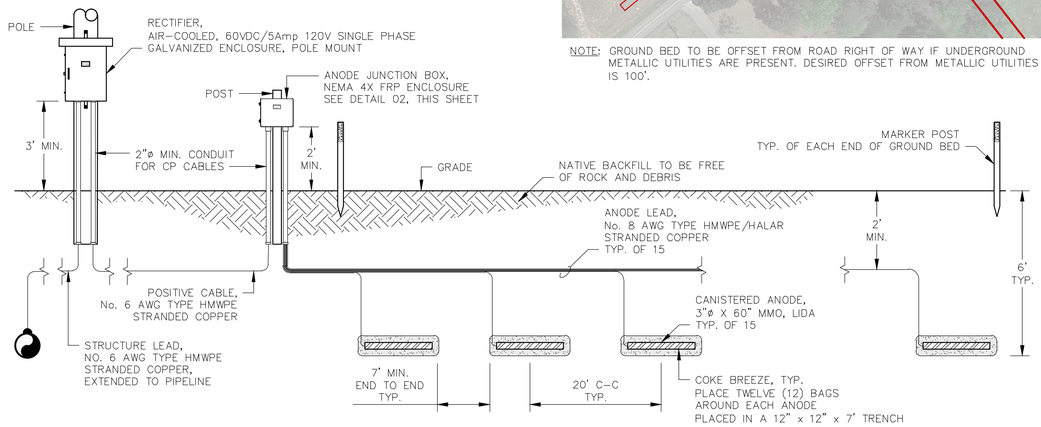
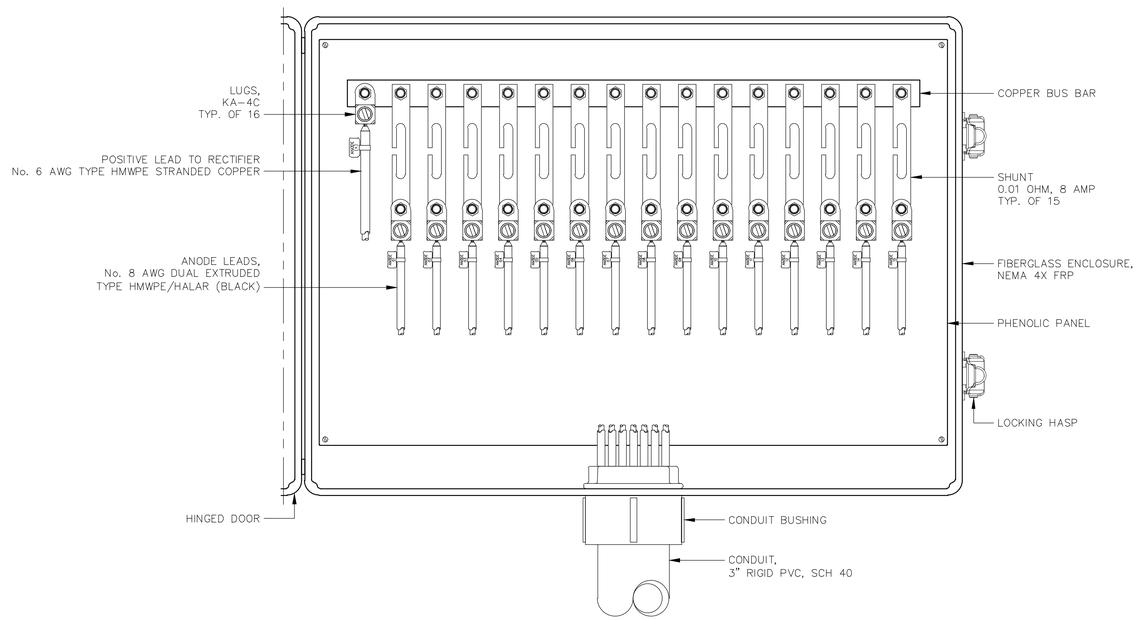


NOTE: GROUND BED TO BE OFFSET FROM ROAD RIGHT OF WAY IF UNDERGROUND METALLIC UTILITIES ARE PRESENT. DESIRED OFFSET FROM METALLIC UTILITIES IS 100'.



DETAIL: ANODE GROUNDBED 01 (THIS SHEET) 01|01

SCALE: N.T.S.



DETAIL: ANODE JUNCTION BOX 02 (THIS SHEET) 01|01

SCALE: N.T.S.

EQUIPMENT SCHEDULE

ITEM No.	STA. ID	STA. No.	DETAIL No.	TEST STATION TYPE	LOCATION NOTE
1	CTS-01	0+30	07	COUPON	@ TRANSCO TAKE STATION
2	STS-01	31+97	06	STANDARD	MCNUTT CREEK RD @ JAB
3	STS-02	64+67	06	STANDARD	HWY 316 @ JAB
4	STS-03	87+33	06	STANDARD	AIKEN RD @ JAB
5	STS-04	138+88	06	STANDARD	GLENN JACKSON RD @ JAB
6	STS-06	176+25	06	STANDARD	ROGERS RD @ JAB
7	FTS-01	229+38	03, 04, 05	FOREIGN CROSSING	COLONIAL PIPELINE CROSSING
8	FTS-02	241+64	03, 04, 05	FOREIGN CROSSING	PLANTATION PIPELINE CROSSING
9	STS-06	274+95	06	STANDARD	DOOLEY TOWN RD @ HDD
10	STS-07	308+85	06	STANDARD	CREEK CROSSING @ HDD
11	STS-08	347+55	06	STANDARD	GEORGIA HWY 42
12	STS-09	382+00	06	STANDARD	ROSS RD
13	STS-10	438+65	06	STANDARD	HWY 211 @ JAB
14	STS-11	483+00	06	STANDARD	OLD LANDFILL / HVPL CROSSING
15	STS-10	515+61	06	STANDARD	HANCOCK BRIDGE RD (END OF PHASE 1)

NOTES:
1) EXACT LOCATIONS TO BE FIELD DETERMINED AND SUBJECT TO CHANGE.
2) STATION NUMBERS AND COORDINATES ARE APPROXIMATE.

CATHODIC PROTECTION BILL OF MATERIALS

No.	DESCRIPTION	QTY.	UNIT
1	RECTIFIER; AIR-COOLED, 60VDC/5Amp 120V SINGLE PHASE GALVANIZED ENCLOSURE, POLE MOUNT	1	EA
2	ANODE JUNCTION BOX; NEMA 4X FRP ENCLOSURE, 15 CIRCUITS ON COMMON HEADER	1	EA
3	REMOTE MONITORING UNIT; MOBILTEX CORTALK RMU3; INCLUDE RELAY FOR INTERRUPTION	1	EA
4	ANODE; CANISTERED LIDA MMO ANODE, 1.5mm WIRE ANODE, 3"ø X 60" CANISTER, LONGEST LEAD 300' DECREASING BY 20', No. 8 HMWPE/HALAR	15	EA
5	COKE BREEZE; LORESCO SC3, 50LB BAG	180	BAG
6	POSITIVE/RECTIFIER-STRUCTURE CABLES; No.6 AWG HMWPE STRANDED (BLACK)	100	LF
7	ELEVATED TEST STATION - NATURAL GAS PIPELINE; COTT BIG FINK, YELLOW CAP FOR 3"ø PVC MOUNTING	13	EA
8	FOREIGN CROSSING JUNCTION BOX; NEMA 4X FRP ENCLOSURE, INDPENDENT TERMINALS FOR: 2 STRUCTURE LEADS, 2 FOREIGN TEST LEADS, 2 PERMANENT REFERENCE CELL LEADS, 4 COUPON LEADS, ENGRAVINGS/LABELS (AS REQUIRED)	2	EA
9	STRUCTURE CABLE; No.10 AWG THWN STRANDED (BLACK)	750	LF
10	FOREIGN PIPELINE TEST CABLE; No.10 AWG THWN STRANDED (WHITE)	100	LF
11	COUPON - CARBON STEEL NATURAL GAS PIPE; M.C.MILLER COU100 SERIES 10 cm² CARBON STEEL COUPON TWIN 50FT LEADS No.12 TYPE THHN (GREEN)	5	EA
12	REFERENCE CELL; BORIN STELTH 2 Cu-CuSO/4 MODEL SRE-007-CUY 50FT LEAD No.14 TYPE RHH-RHW (YELLOW)	5	EA
13	EXOTHERMIC WELD MOLD; ERICO CADWELD CAHAA-1G, FOR No.10 AWG WIRE, FLAT BOTTOM MOLD	1	EA
14	EXOTHERMIC WELD MOLD; ERICO CADWELD CAHAA-1H, FOR No.6 AWG WIRE, FLAT BOTTOM MOLD	1	EA
15	EXOTHERMIC WELD SHOT - FOR STEEL PIPE; ERICO CADWELD CA15 - 20 SHOTS PER BOX (REQUIRES FLINT GUN)	2	BOX
16	RECOAT MATERIALS - STEEL PIPE; DENSO 7200, 2-PART LIQUID EPOXY, 50-ML CARTRIDGE AND MIXING TIP (50-ML REPAIR CARTRIDGE GUN REQUIRED), OR APPROVED COATING	15	EA
17	CATHODIC PROTECTION WARNING TAPE; 3" WIDE, 1000' ROLL, NON-DETECTABLE, YELLOW IN COLOR, "CAUTION: BURIED CATHODIC PROTECTION CABLE"	1	EA

REVISION DESCRIPTION	REV.#	DRWN	DATE
ISSUED FOR SIGNATURE & RELEASE	00	JKB	25/06/25

PROJ. MGR: TCH
SR. ENG: TCH
DESIGNED BY: TCH
DRAWN BY: JKB
DATE: 2025/06/25

IN ASSOCIATION WITH:

780 JOHNSON FERRY ROAD
SUITE 225
ATLANTA, GEORGIA 30342
(404) 252-4649
www.cathodicprotection.com
SCP Southern Cathodic PROTECTION

CATHODIC PROTECTION SYSTEM
NEW 16" NATURAL GAS PIPELINE
LIBERTY UTILITIES
GAINESVILLE, GA

ENGINEER OF RECORD:
Todd C. Halligan
ENGINEERING CERTIFICATE NO.: PE043357

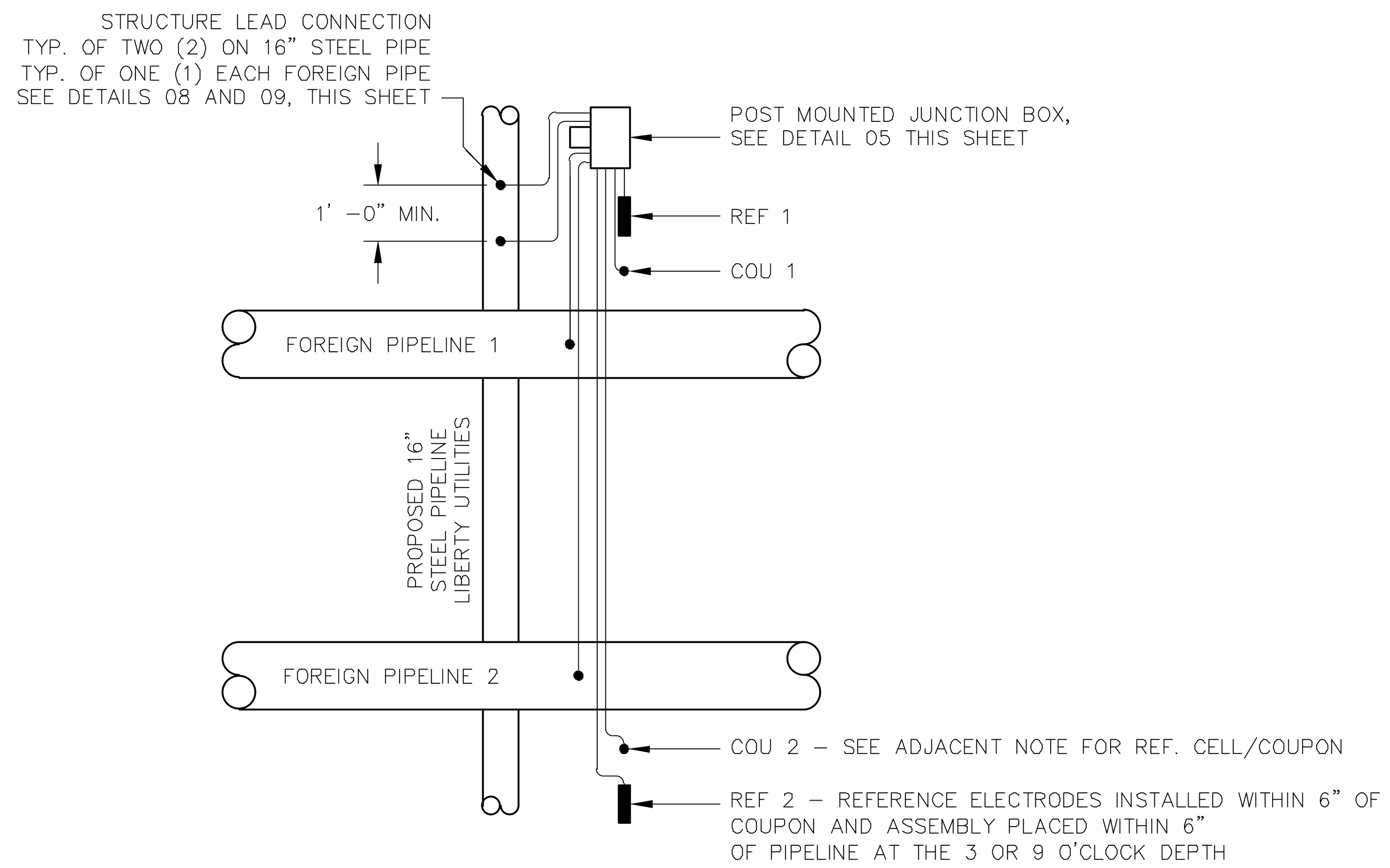
GEORGIA REGISTERED No. PE043357 PROFESSIONAL ENGINEER TODD C. HALLIGAN 06/25/25

DATE: 2025/06/25

DRAWING No. 15395-01

SHEET 01 OF 02

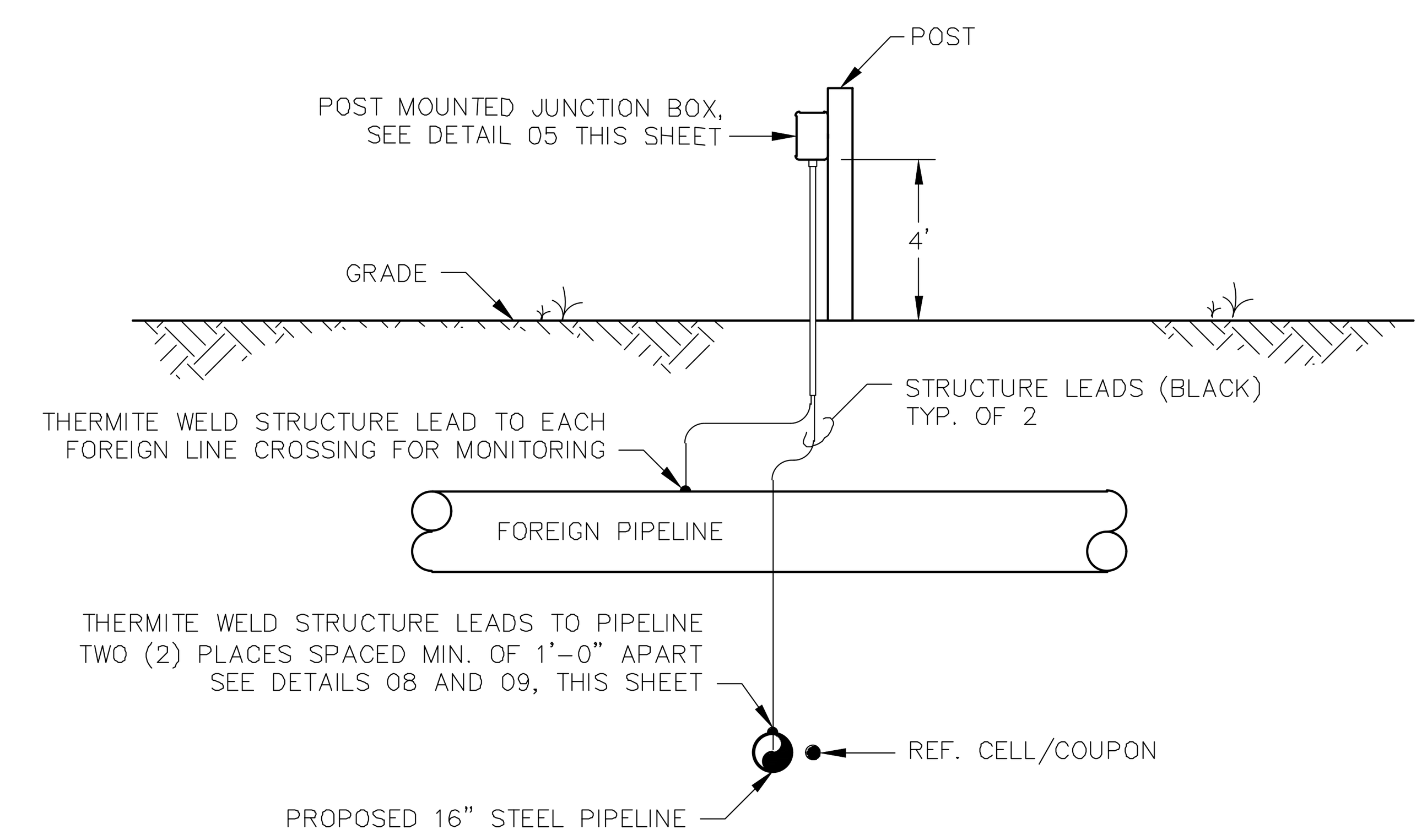
ARCH D - 36" x 24"



DETAIL: LAYOUT – FOREIGN PIPELINE CROSSING TEST STATION (03, THIS SHEET 02 | SEE SHEET 02)

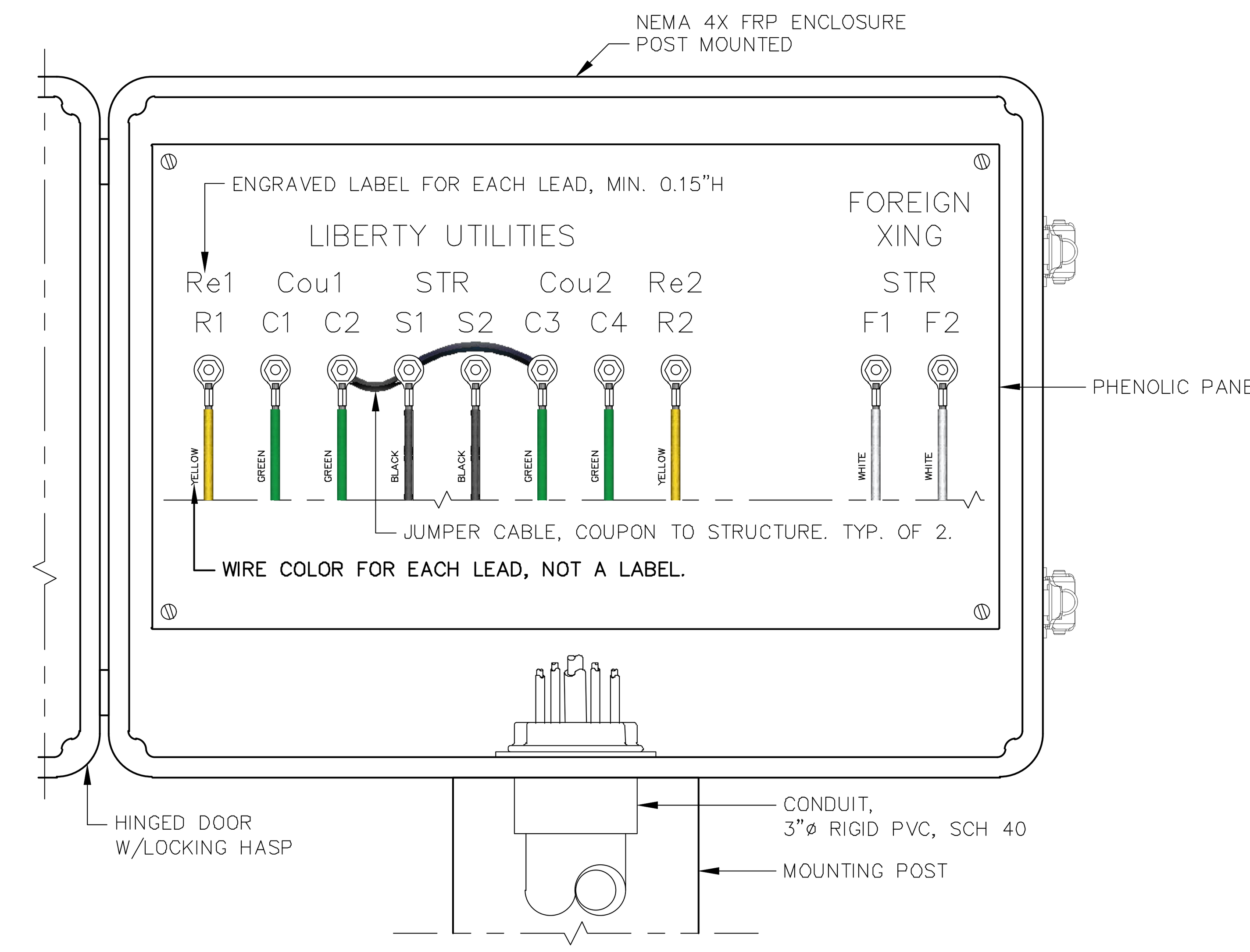
SCALE: NONE

NOTES:
1) EQUIPMENT LOCATIONS TO BE FIELD DETERMINED AND SUBJECT TO CHANGE.
2) JUNCTION BOX, REFERENCE CELLS, AND COUPONS SHOULD BE PLACED AS CLOSE TO PIPELINE CROSSING AS POSSIBLE.



DETAIL: ELEVATION – FOREIGN PIPELINE CROSSING TEST STATION (04, THIS SHEET 02 | SEE SHEET 02)

SCALE: NONE

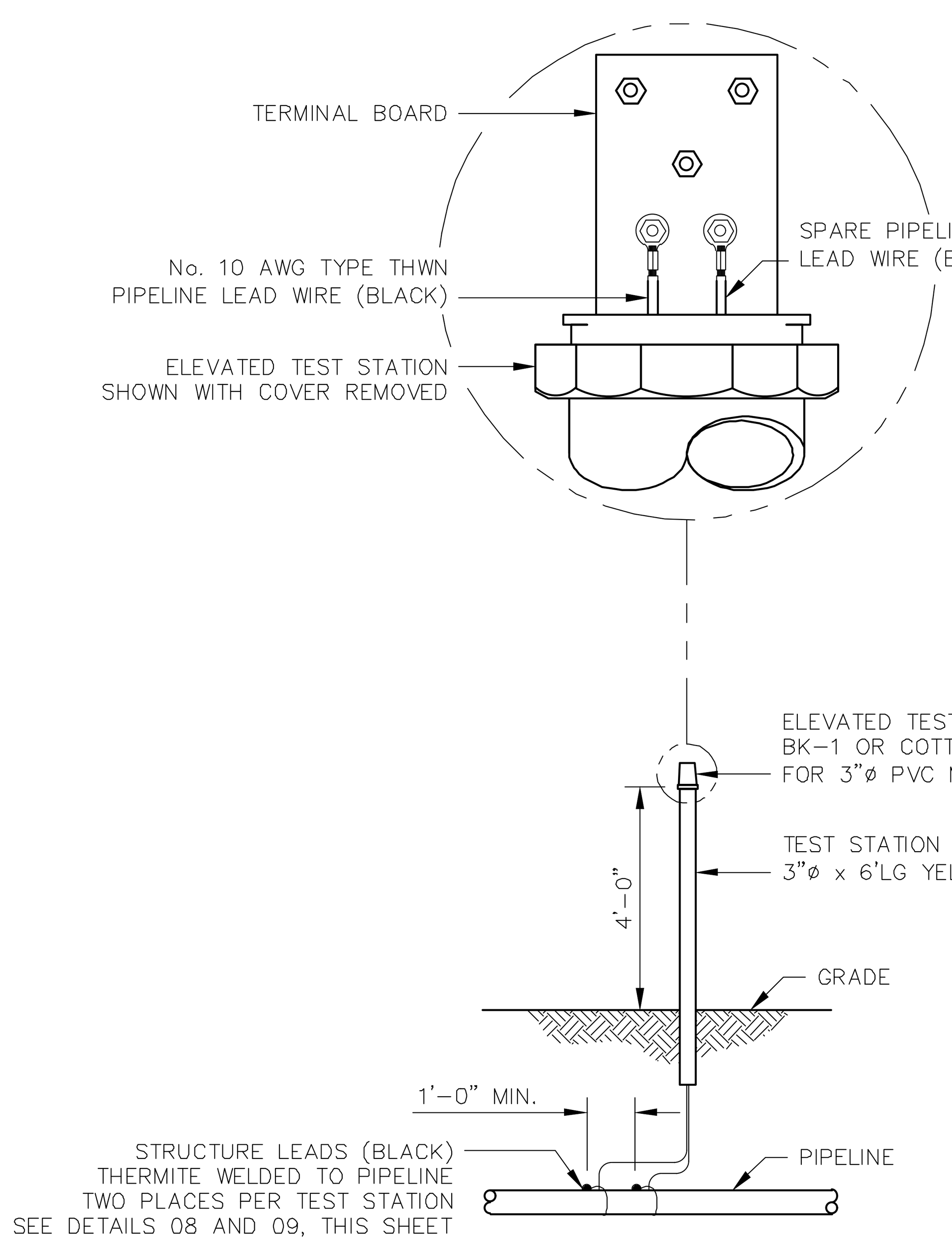


DETAIL: FOREIGN CROSSING TEST BOX (05, THIS SHEET 02 | SEE SHEET 02)

SCALE: NONE

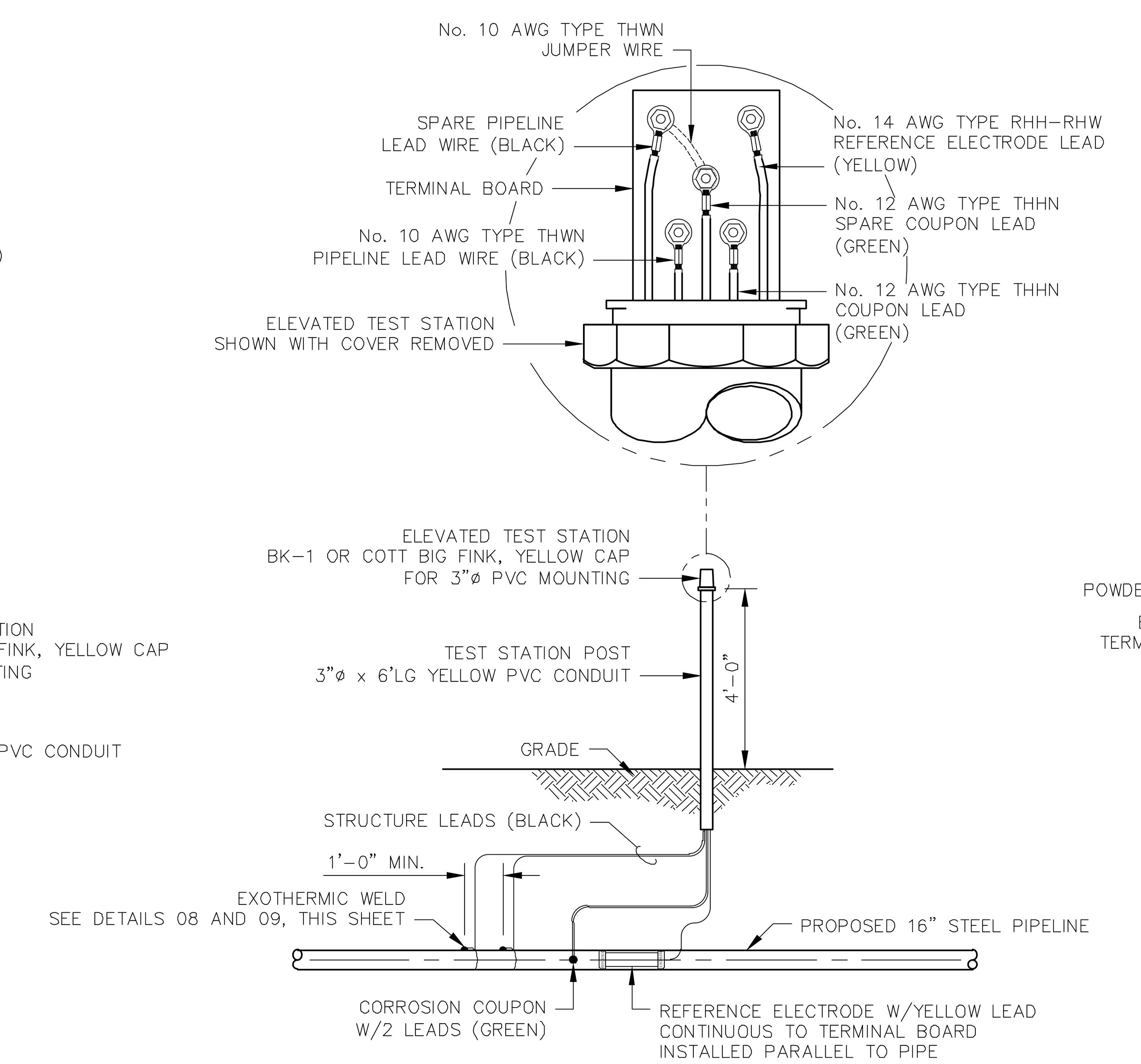
WIRING LEGEND: FOREIGN CROSSING TEST BOX

LABEL	DESCRIPTION
"STR S#" (LOCAL PIPE)	PIPELINE LEAD NO. 10 AWG TYPE HMWPE (BLACK), TYP. OF 2
"STR F#" (FOREIGN PIPE)	FOREIGN PIPELINE LEAD NO. 10 AWG TYPE HMWPE (WHITE), TYP. OF 2
"COU C#" (LOCAL PIPE)	COUPON LEAD NO. 12 AWG TYPE THWN (GREEN), 2 PER COUPON, TYP. OF 4
"REF R#" (LOCAL PIPE)	REFERENCE ELECTRODE LEAD NO. 14 AWG TYPE RHH-RHW (YELLOW), TYP. OF 2



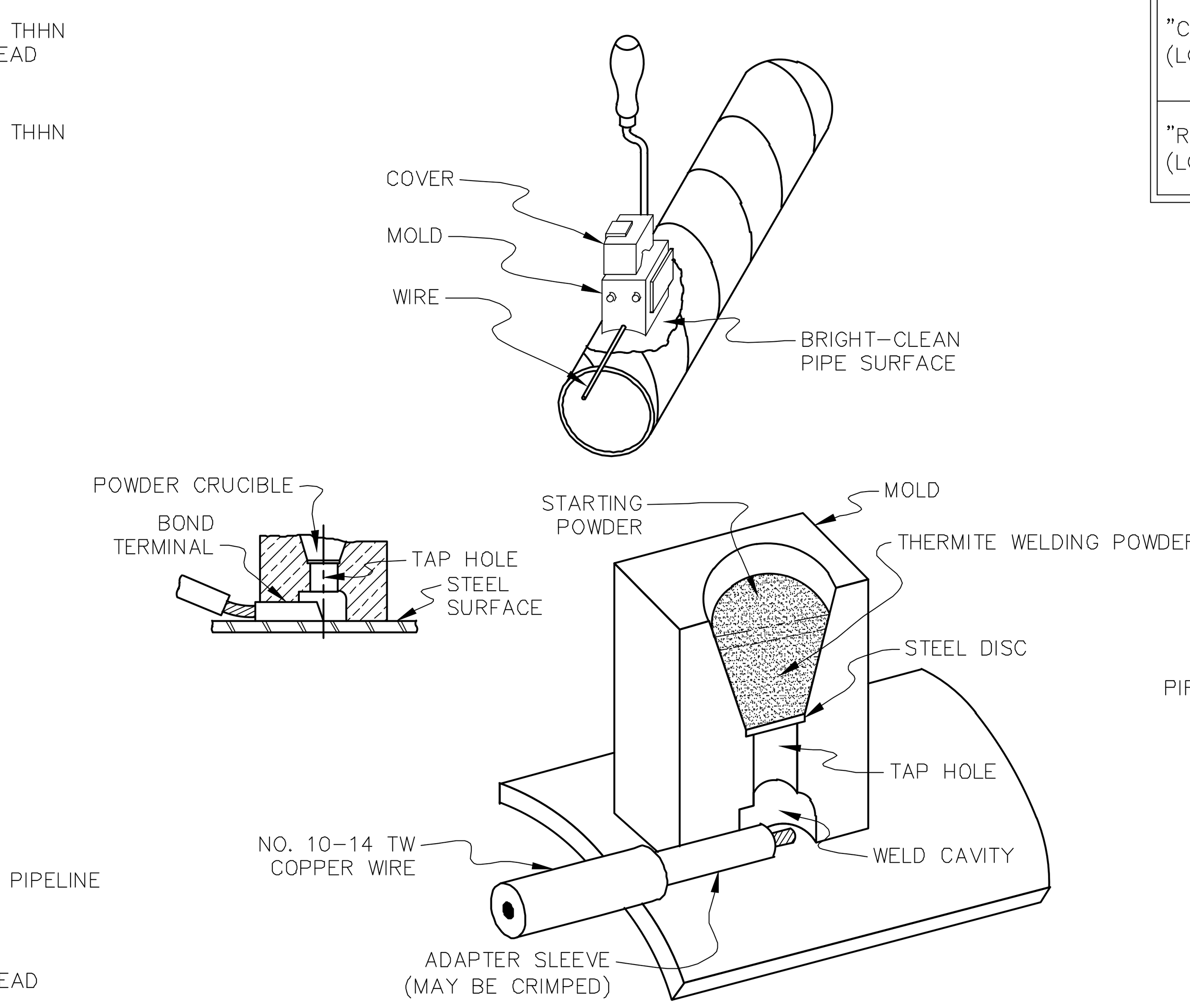
DETAIL: STANDARD 2-WIRE TEST STATION (06, THIS SHEET 02 | SEE SHEET 02)

SCALE: N.T.S.



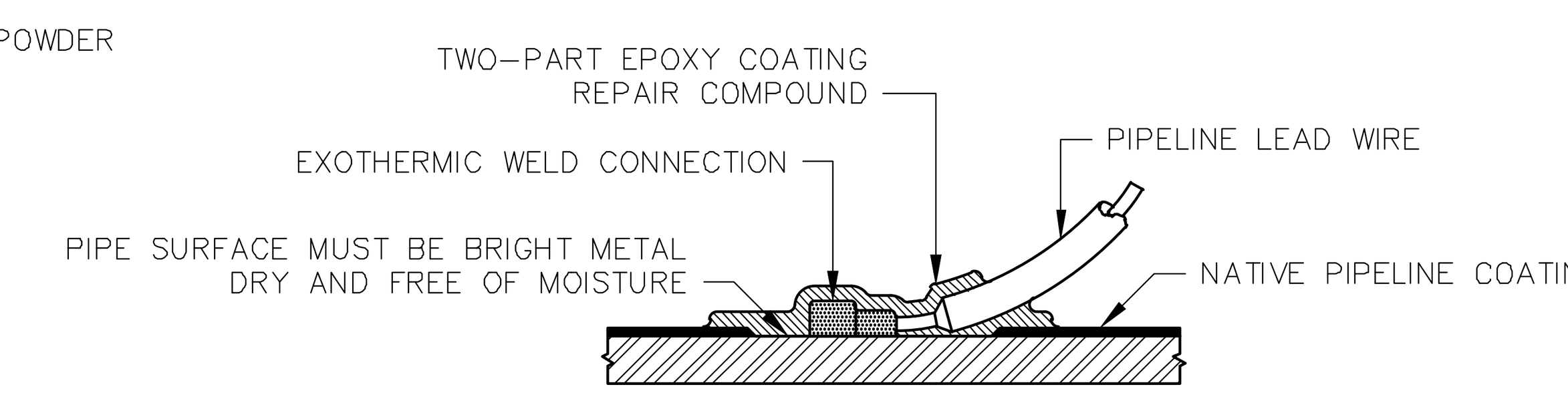
DETAIL: COUPON TEST STATION (07, THIS SHEET 02 | SEE SHEET 02)

SCALE: N.T.S.



DETAIL: EXOTHERMIC WELDING PROCEDURE (08, THIS SHEET 02 | SEE SHEET 02)

SCALE: N.T.S.



DETAIL: EXOTHERMIC WELD EPOXY RECOAT (09, THIS SHEET 02 | SEE SHEET 02)

SCALE: N.T.S.

REV.#	DATE	DRWN	REVISION DESCRIPTION
00	25/06/25	JKB	ISSUED FOR SIGNATURE & RELEASE

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06/25/25

DATE: 2025/06/25

DRAWING No. 15395-02

SHEET 02 OF 02

ARCH D - 36" x 24"