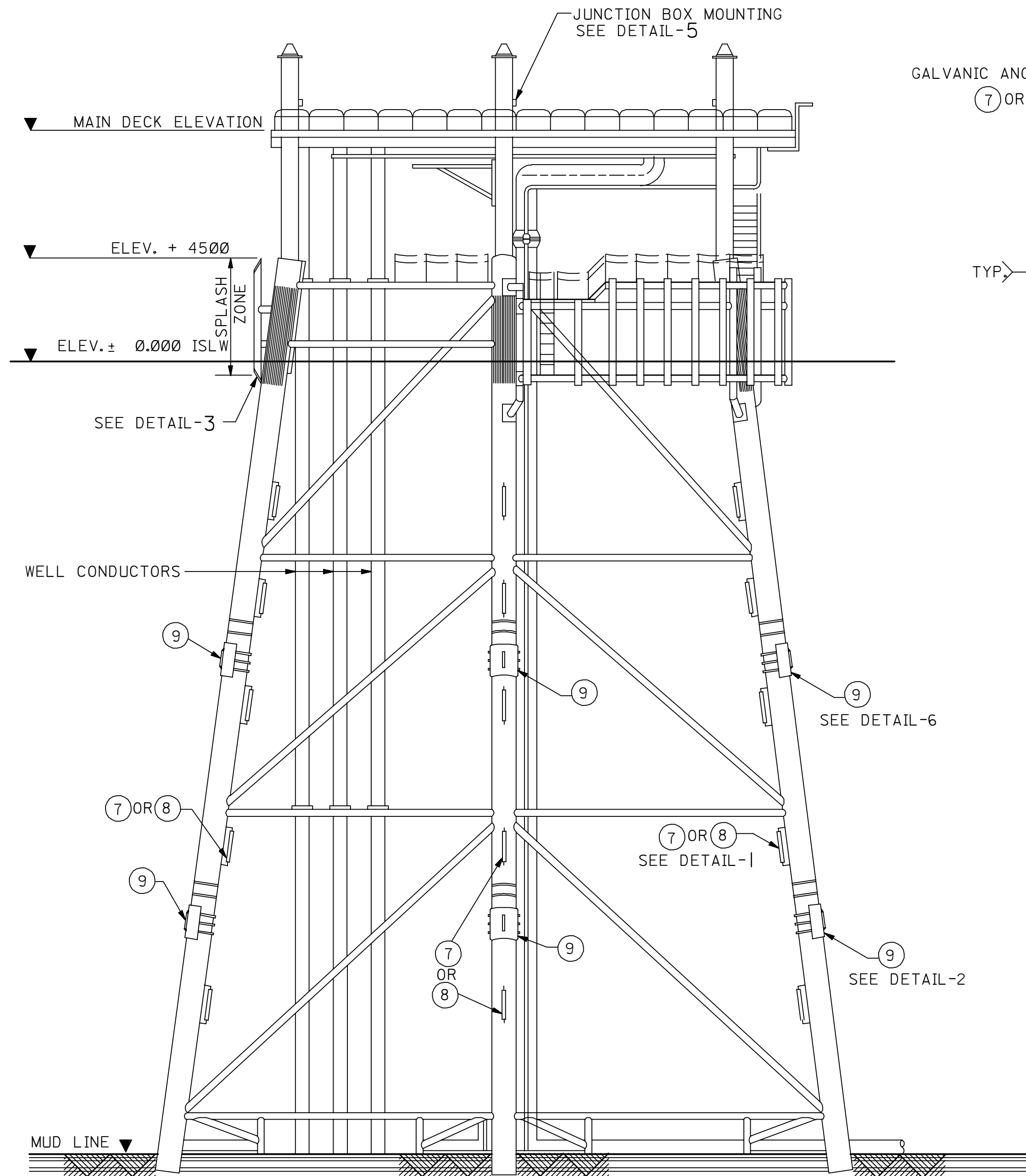
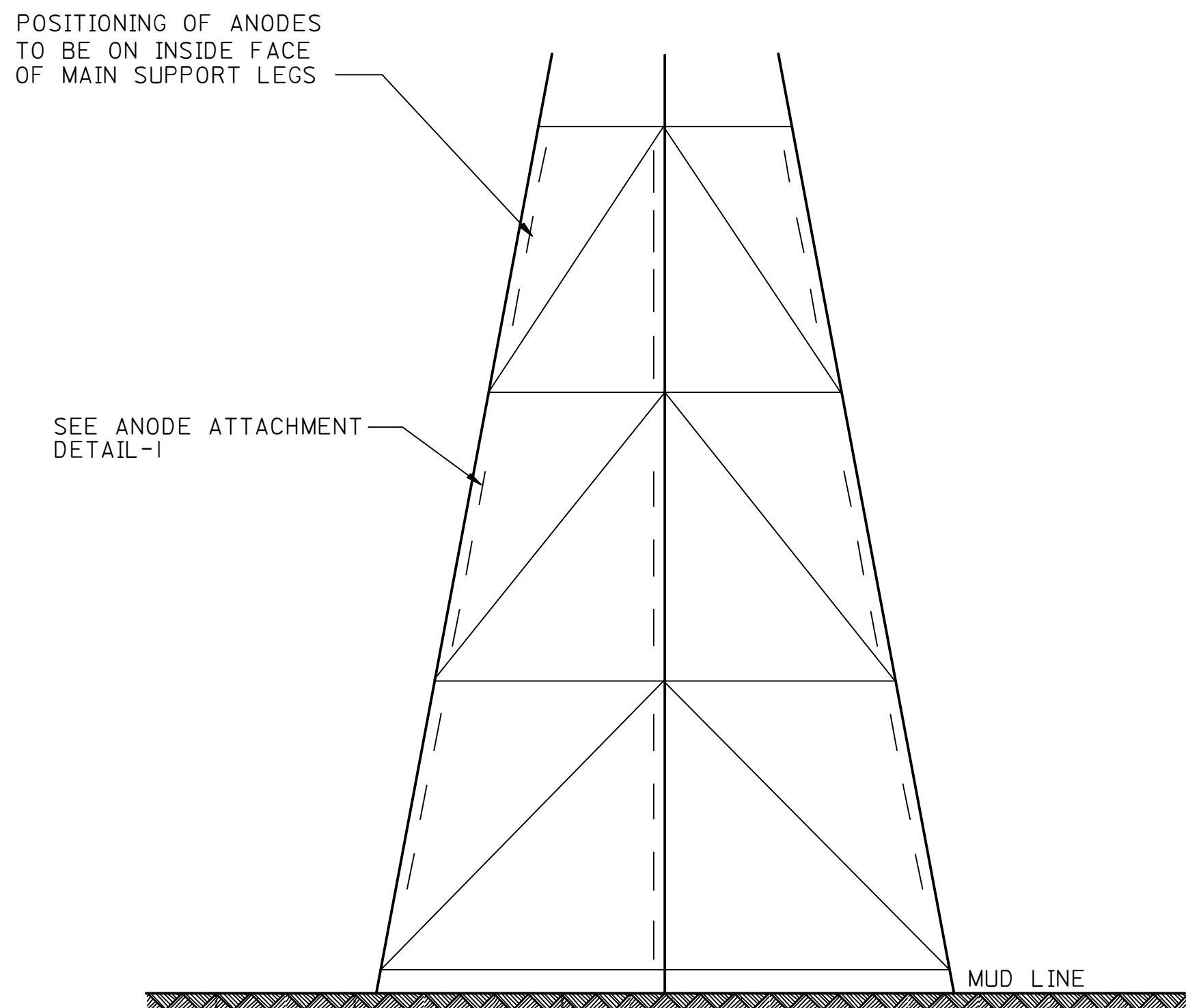


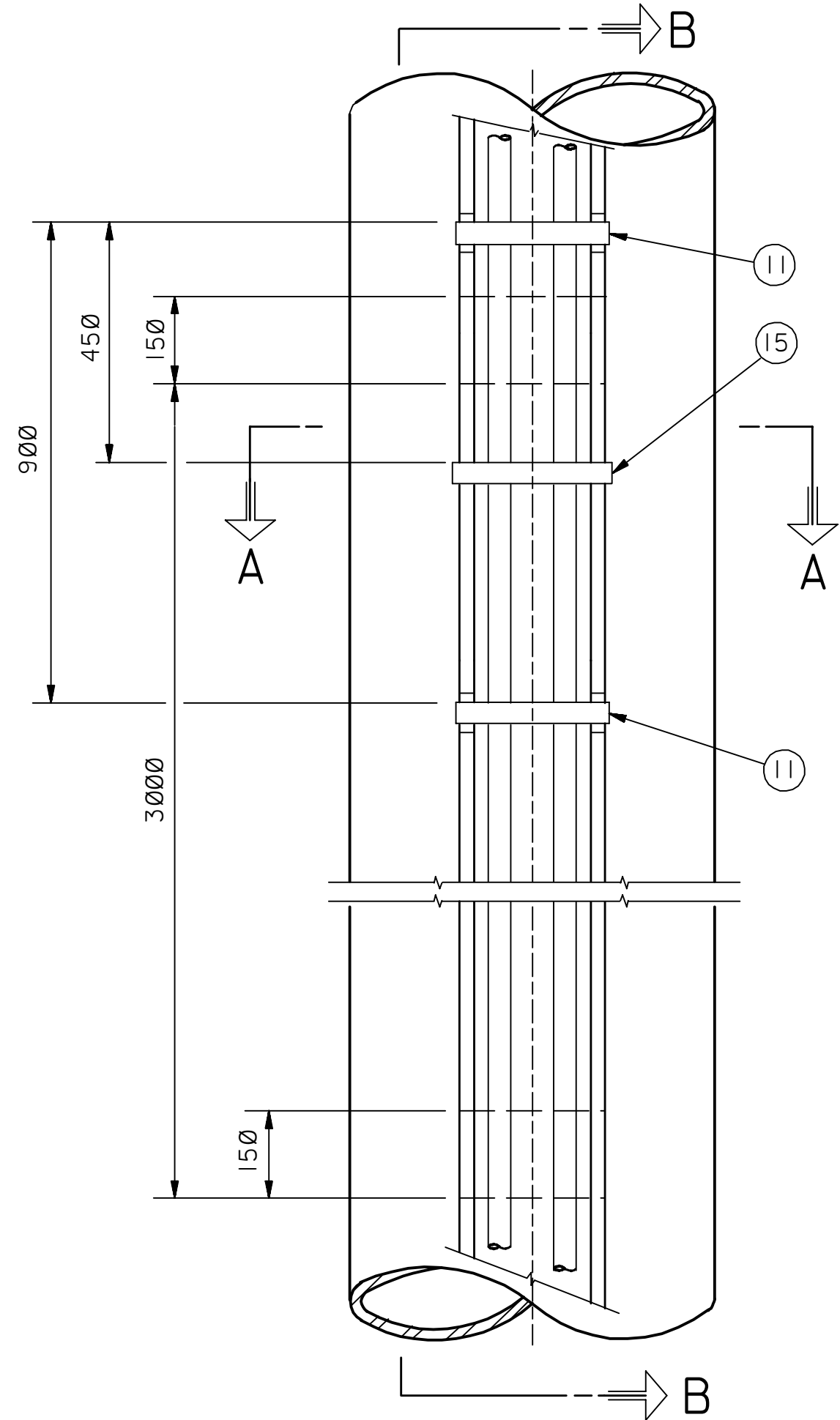
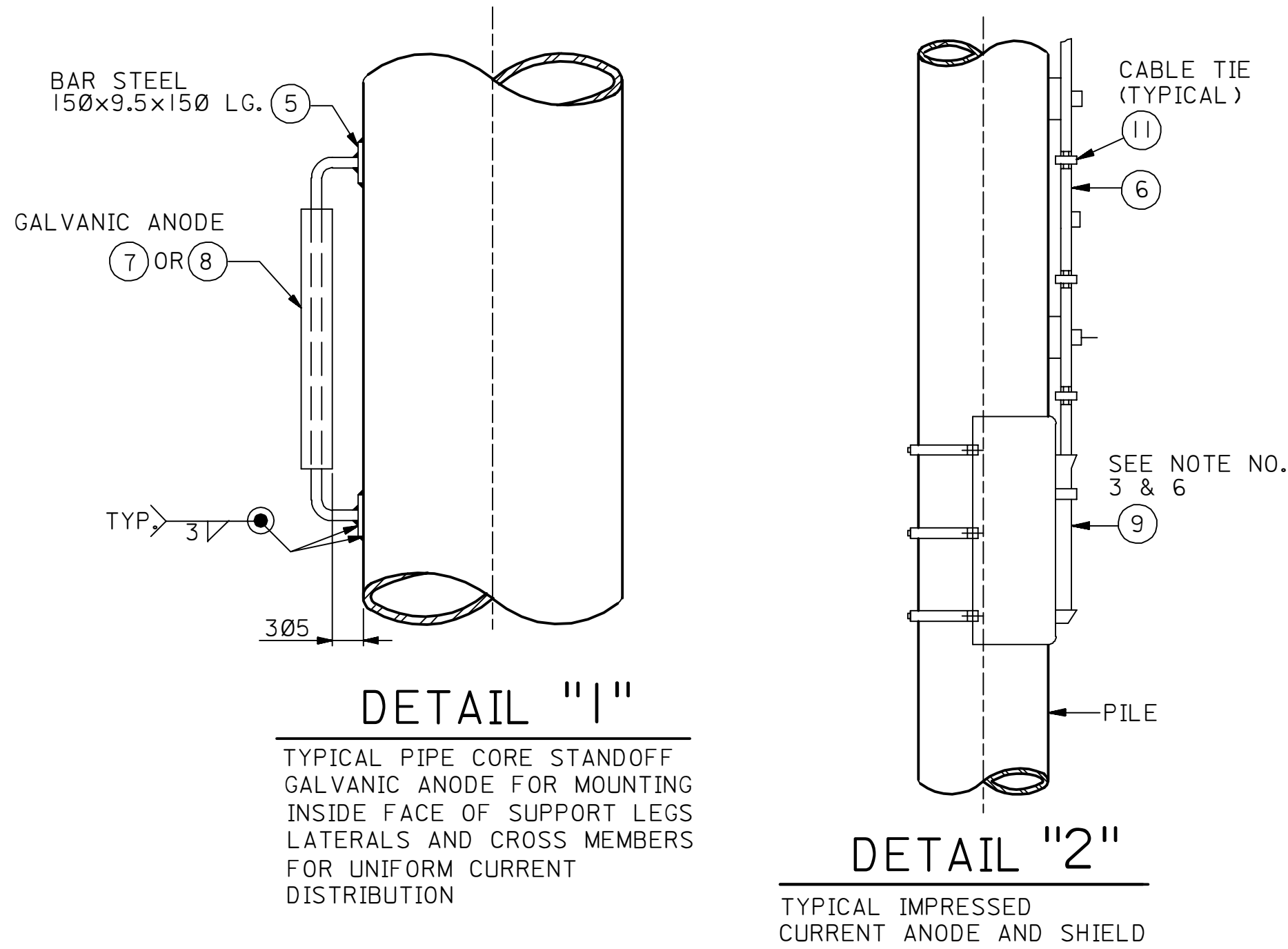
80	001	AA-036348	X	096
PLANT NO.	INDEX	DRAWING NUMBER	REV. NO.	REV. NO.



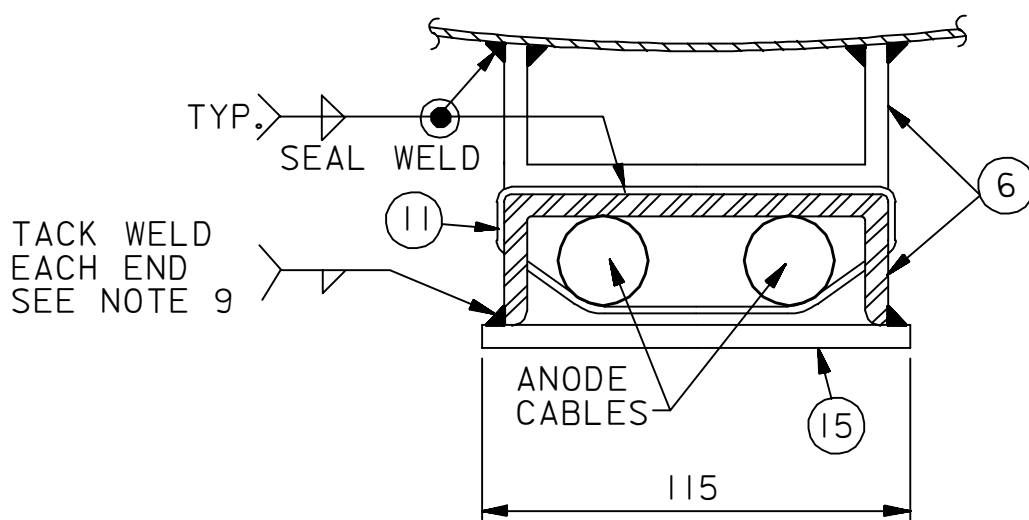
TYPICAL GALVANIC AND IMPRESSED ANODES



TYPICAL GALVANIC ANODE LOCATION DIAGRAM

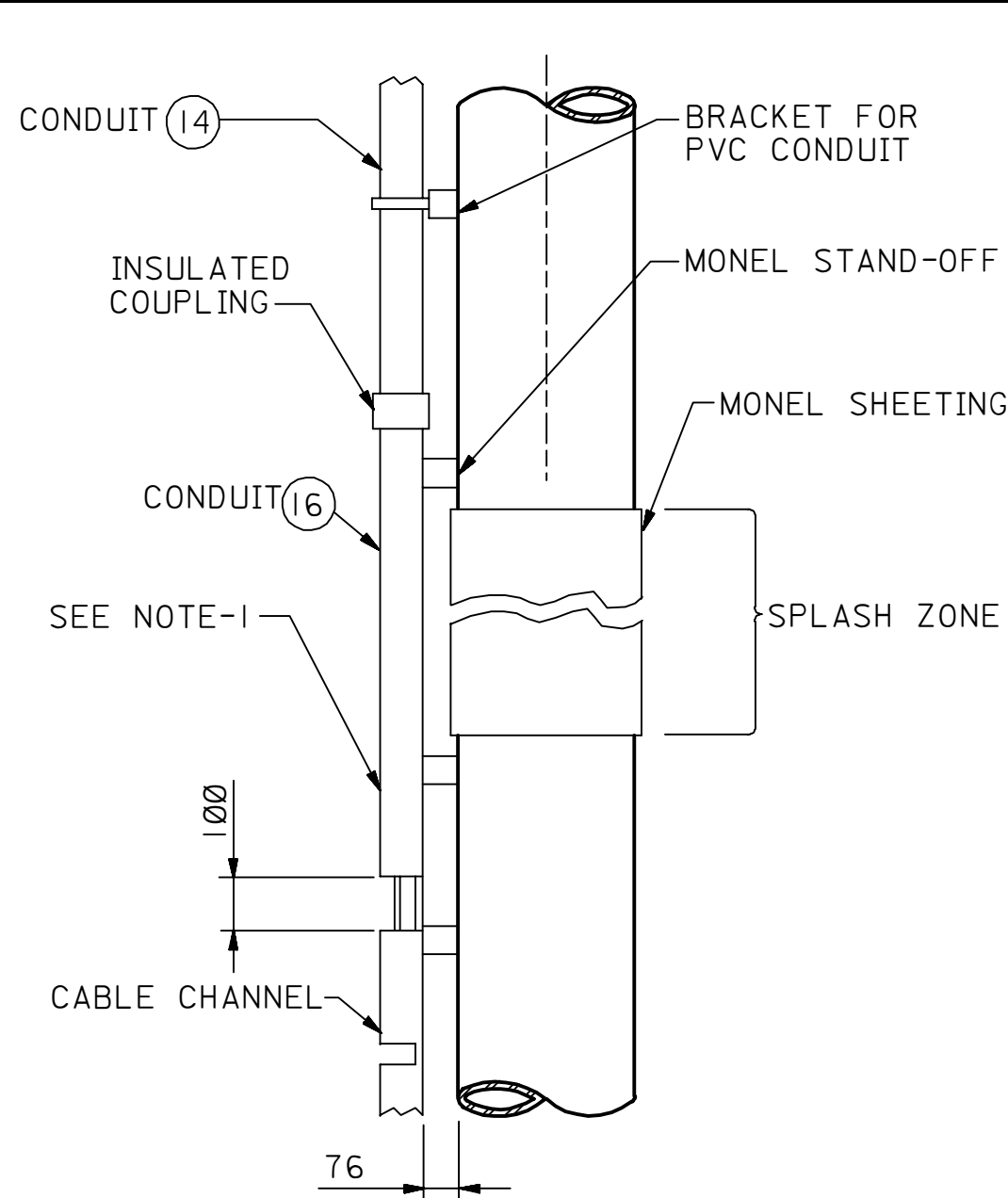


DETAIL "4"
IMPRESSED CURRENT
ANODE CABLE STRAPPING
BELOW SPLASH ZONE



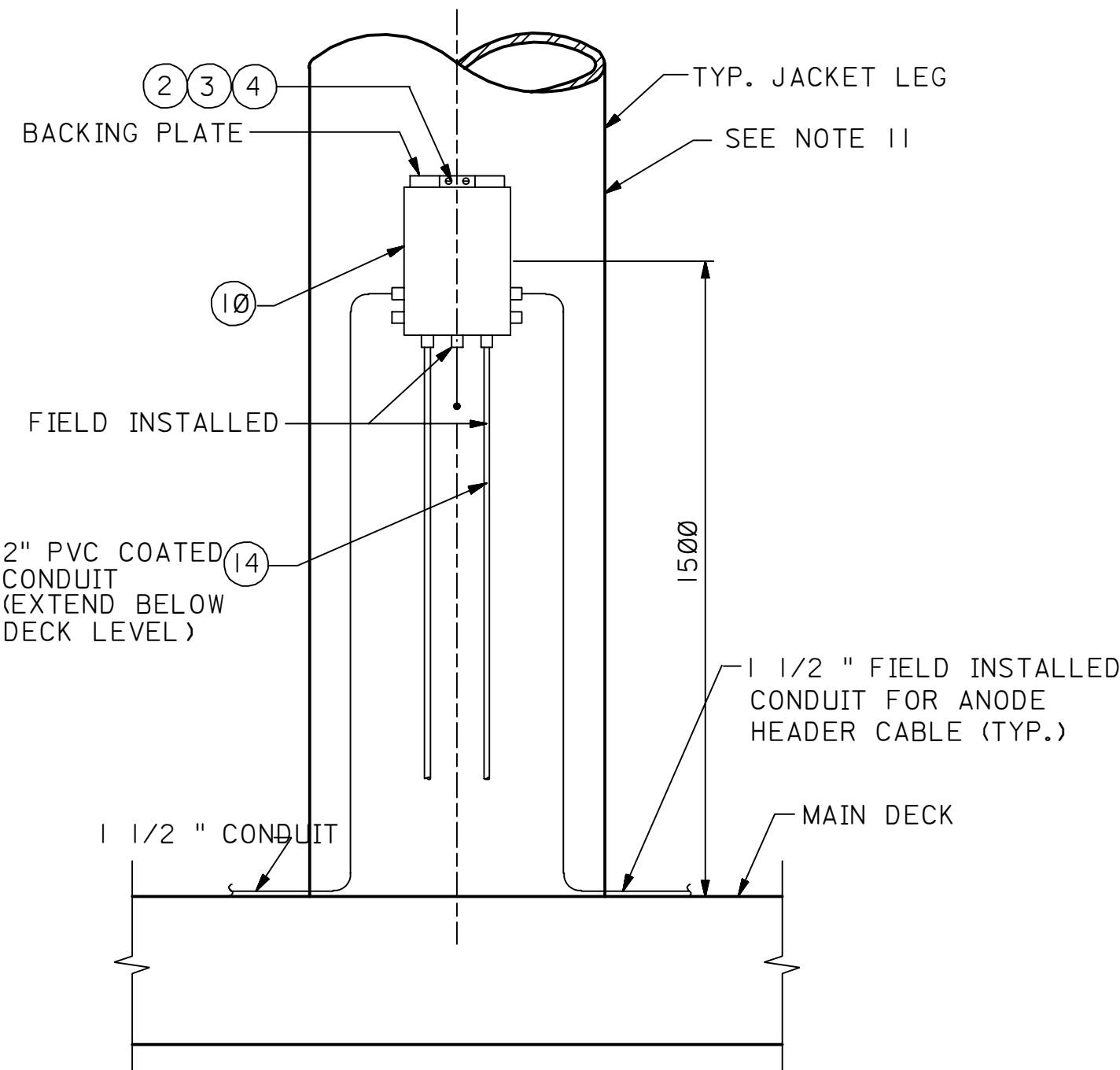
SECTION A-A

(OF DETAIL 4)
CABLE INSTALLATION DETAIL



DETAIL "4"

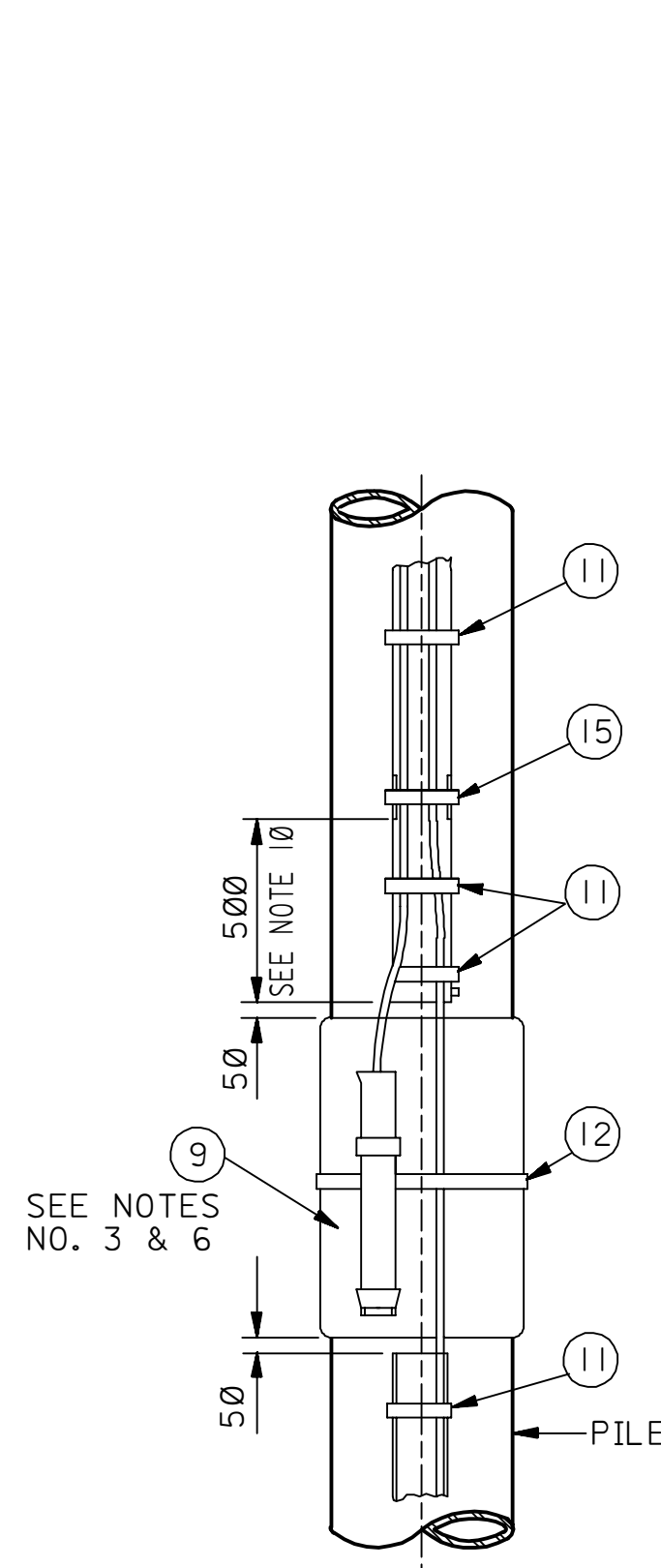
ANODE CABLE CHANNEL
& STRAPPING-SPLASH ZONE
SEE NOTE-4



DETAIL "5"

JUNCTION BOX MOUNTING FOR
IMPRESSED CURRENT ANODE CABLES

MATERIAL LIST		
CODE	SAMSS NUMBER	DESCRIPTION
1	09-612-345	COATING KIT: ANTI-CORROSIVE SPLASH ZONE SERVICE
2	10-206-466	BOLT MACHINE; 1/2 "-13x1 1/2 "
3	10-603-015	NUT; LOCK 1/2 "-13
4	10-888-365	WASHER; STEEL; RD. 1/2 " DIA.
5	12-335-446	BAR STEEL, CARBON, FLAT; 3/8 "x6"
6	12-435-612	CHANNEL STRUCTURE, STEEL; 4"
7	17-851-032	ANODE GALVANIC: ALUMINUM ALLOY 560 LBS.; 2 1/2 " SCH. 80 PIPE OFFSET AS PER 17SAMSS-006
8	17-851-051	ANODE GALVANIC: ALUMINUM ALLOY 1245 LBS.; 4" SCH. 80 PIPE OFFSET AS PER 17SAMSS-006
9	D/C	SHIELD AND IMPRESSED CURRENT ANODE AS PER AA-036304
10	XX-XXX-XXX	BOX; JUNCTION; OFFSHORE AS PER STD. DWG. AA-036384
11	15-525-030	NYLON TIE; CABLE; 13.4" LG.
12	15-525-325	TIE; CABLE; 12" DIA. RANGE; 40" LG.
13	20-484-028	ELECTRODE; WELDING; 5/32 " DIA.
14	15-314-918	CONDUIT; RIGID; PVC COATED; COMPLETE WITH COUPLING; 2"
15	12-187-252	STRIP; CARBON STEEL; 3/16 " TH X
16	D/C	CONDUIT, MONEL, 2"



DETAIL "6"

INSTALLATION OF TOP
ANODE AND SHIELD

- NOTES:
1. AVOID SIGNIFICANT BENDS IN THE CONDUIT RUNNING FROM THE CHANNEL TO THE ANODE JUNCTION BOX SITUATED AT MAIN DECK LEVEL.
 2. COAT ALL STEEL BARS, STEEL PLATES, WELDAREAS WITH EPOXY SPLASH ZONE COMPOUNDS (APCS-19) PER SAES-H-1.
 3. INSTALL ANODE CABLES AND CHANNELS ON THE INSIDE FACE OF SUPPORT LEGS
 4. PROPERLY DISTRIBUTE ANODES ON THE PLATFORM LEGS TO OPTIMIZE CP CURRENT DISTRIBUTION.
 5. CUT SLOTS IN CHANNEL IN YARD PRIOR TO COATING. GROUND AND DEBUR SHARP EDGES.
 6. INSTALL THE MOUNT BRACKET IN THE CONSTRUCTION YARD. INSTALL THE DIELECTRIC SHIELD BEFORE CURRENT SYSTEM ONLY AFTER THE POWER IS AVAILABLE IN THE PLATFORM.
 7. IN CASE OF INSTALLING MORE THAN ONE ANODE ON THE SAME LEG, MOUNT THE TOP DIELECTRIC SHIELD BEFORE INSTALLING THE BOTTOM ANODE. INSTALL THE TOP ANODE AFTER SECURING THE CABLE OF THE BOTTOM ANODE AROUND THE DIELECTRIC SHIELD OF THE TOP ANODE.
 8. CUT AWAY ONE SIDE OF THE FLANGE CHANNEL TO PROVIDE AN ACCESS TO O THE CABLE RUN.
 9. AFTER STRAPPING THE CABLE(S) TO THE CHANNEL, TACK WELD THE METAL STRIPS TO THE TIPS OF THE CHANNEL FLANGES MIDWAY BETWEEN THE CABLE TIES.
 10. CONSULT THE CSD WELDING ENGINEER FOR PROPER PROCEDURES BEFORE PROCEEDING WITH THE SUBSEA WET WELDING.
 10. ALL DIMENTIONS ARE IN MILLIMETER UNLESS NOTED OTHERWISE.
 11. INSTALL JUNCTION BOX ON MAIN DECK ON INSIDE FACE OF JACKET LEG TO ENSURE ACCESSIBILITY FOR MONITORING.

REFERENCE DRAWINGS

JUNCTION BOX	AA-036384
THERMITE WELDING	AB-036381
ANODE IMPRESSED CURRENT	AA-036304

DRAWING RESPONSIBILITY:
CATHODIC PROTECTION STANDARDS COMMITTEE

08	NOV99	EDSD WED	GENERAL REVISION			
07	FEB99	ESSD MAG	REVISED AS PER MARKUP.	ORIGINAL SIGNED	ORIGINAL SIGNED	ORIGINAL SIGNED
06	FEB88	ESSD RLO	REVISED DETS. 2, 4 & 6, SECTION A-B & B-B & ADDED NOTES.	ORIGINAL SIGNED	ORIGINAL SIGNED	ORIGINAL SIGNED
05	AUG85	ESSD MHL	REDRAWN FOR CLARITY, CHANGED INDEX FROM P. TO X & ADDED MANDATORY NOTE.	ORIGINAL SIGNED	ORIGINAL SIGNED	ORIGINAL SIGNED
REV. NO.	DATE	BY	DESCRIPTION	CHKD.	CERT.	APPD.

SAUDI ARABIAN OIL COMPANY

DRAWN BY: M.N./BAK CHECKED BY: _____ SCALE: NONE
DATE STARTED: _____ DATE COMPLETED: 3-29-76
OPR/G. DEPT.: _____ ENG. DEPT.: _____
APPD. FOR CONST: _____

THIS DRAWING IS NOT TO BE USED FOR CONSTRUCTION OR FOR ORDERING MATERIAL UNITS, CERTIFIED AND DATED

CATHODIC PROTECTION
GALVANIC AND IMPRESSED ANODES
ON OFFSHORE STRUCTURES

STD. DWG.			METRIC		
PLANT NO.	INDEX	DRAWING NUMBER	SHT. NO.	REV. NO.	
990	X	AA-036348	001	08	