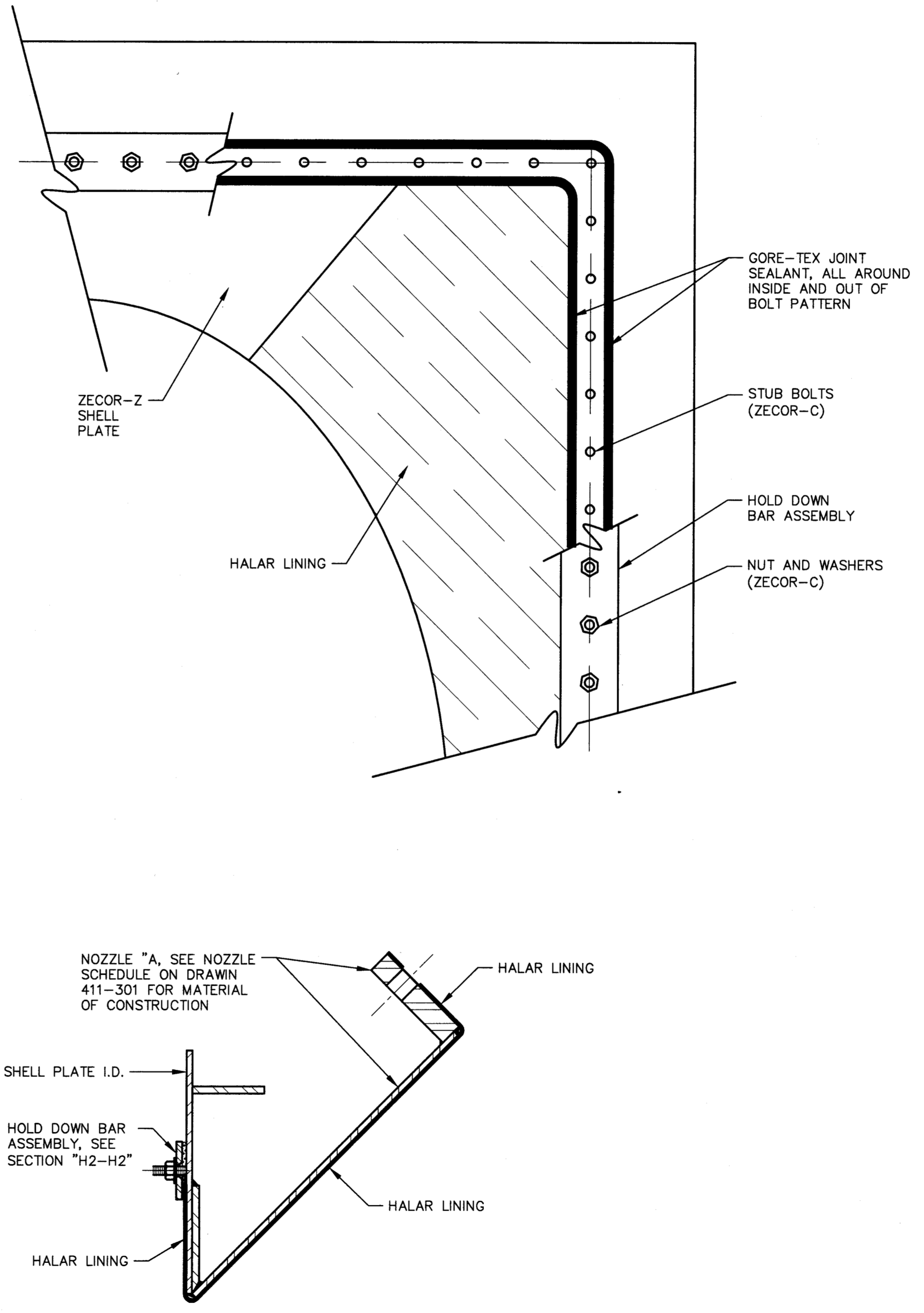
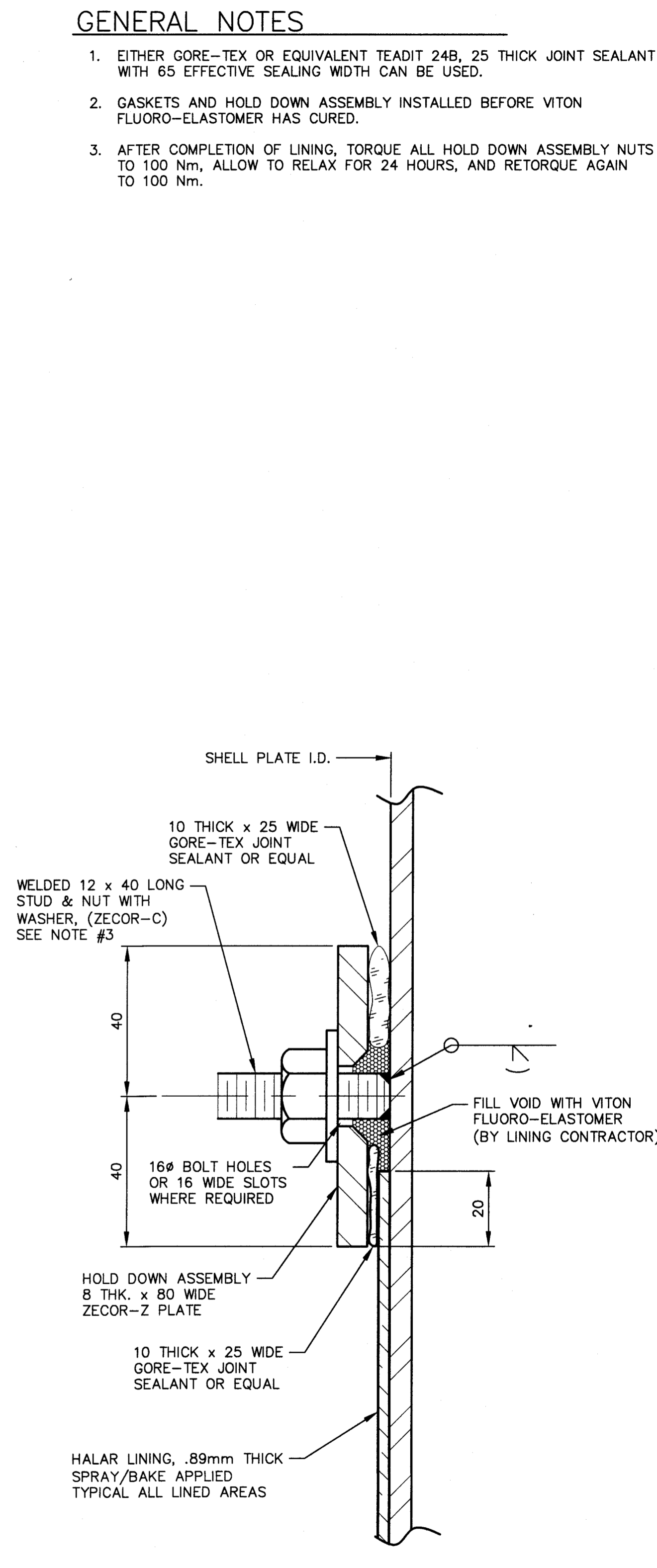


SECTION "H-H"
SCALE = 1:10
SHOWN IN FLAT STATE



SECTION "H1-H1"
SCALE = 1:5



SECTION "H2-H2"
SCALE = 1:1

- GENERAL NOTES**
1. EITHER GORE-TEX OR EQUIVALENT TEADIT 24B, 25 THICK JOINT SEALANT WITH 65 EFFECTIVE SEALING WIDTH CAN BE USED.
 2. GASKETS AND HOLD DOWN ASSEMBLY INSTALLED BEFORE VITON FLUORO-ELASTOMER HAS CURED.
 3. AFTER COMPLETION OF LINING, TORQUE ALL HOLD DOWN ASSEMBLY NUTS TO 100 Nm, ALLOW TO RELAX FOR 24 HOURS, AND RETORQUE AGAIN TO 100 Nm.

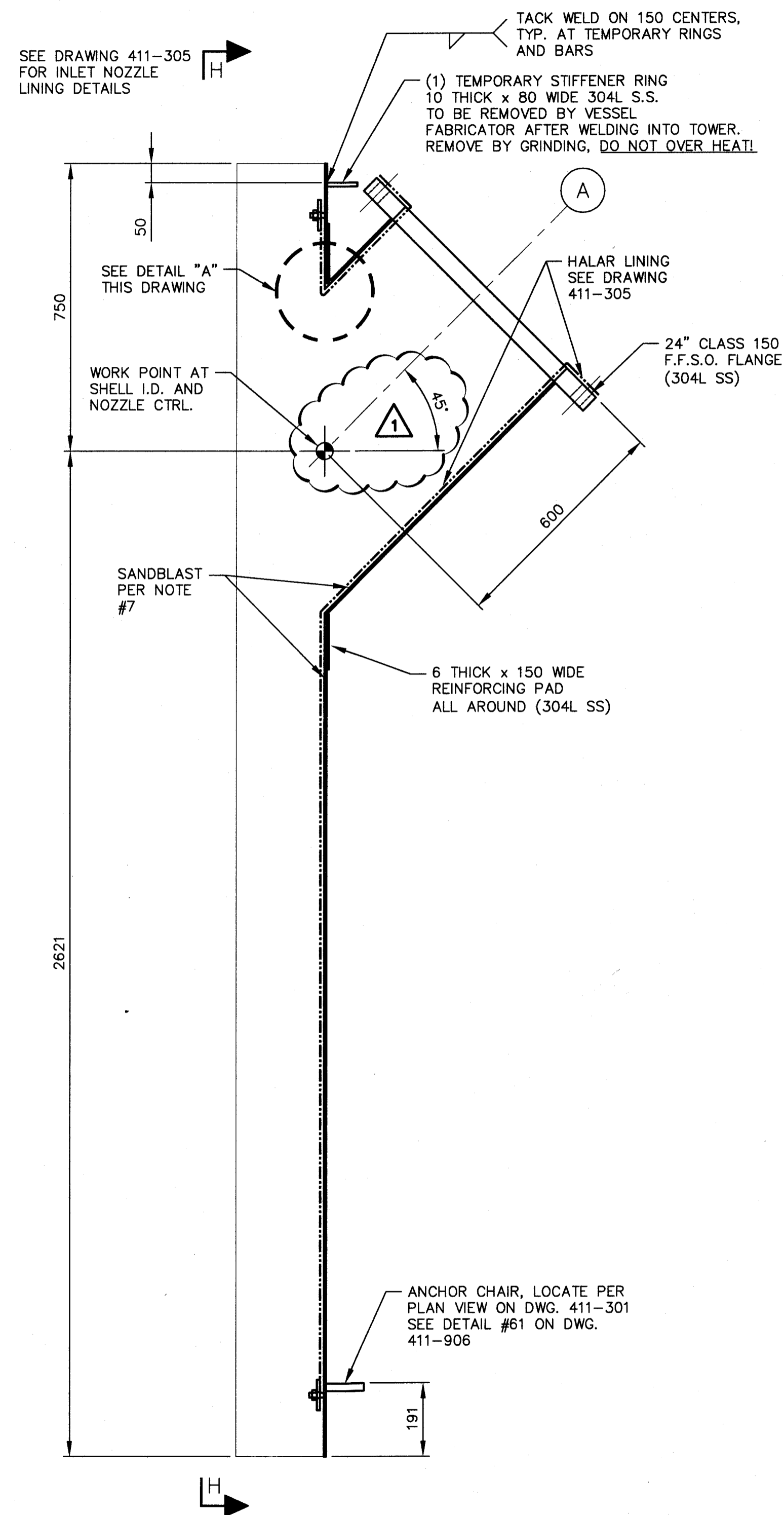
ALL DIMENSIONS SHOWN ARE IN MILLIMETERS UNLESS NOTED OTHERWISE.

MATERIAL OF CONSTRUCTION

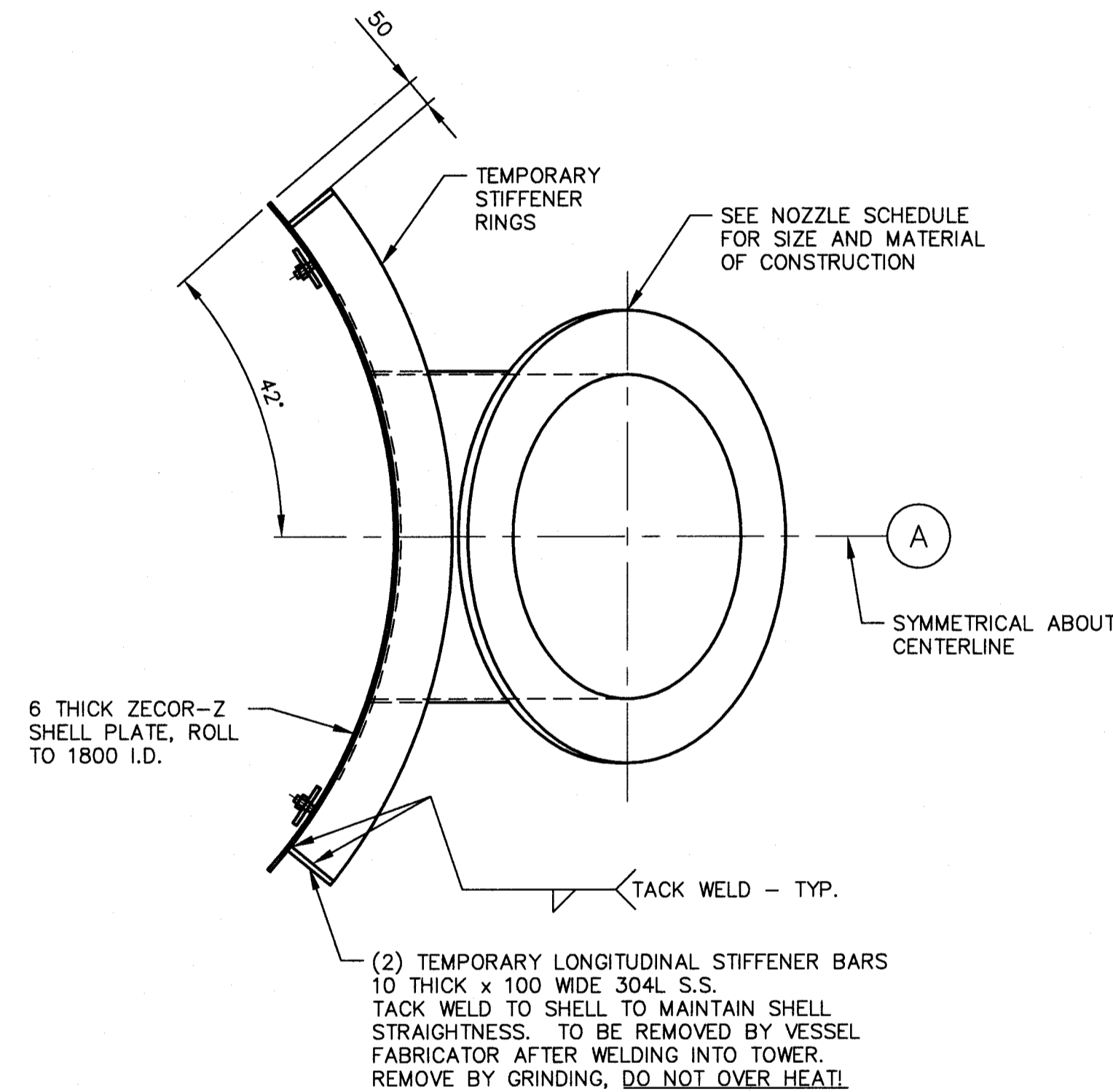
PLATE:	ASTM A-240 ZeCOR-Z®
PLATE (STAINLESS STEEL):	ASTM A-240 304L
FORGINGS:	ASTM A-182 F 304L
BAR, FLATS & RODS:	ASTM A-479 TP 304L & ZeCOR-Z®

GENERAL NOTES

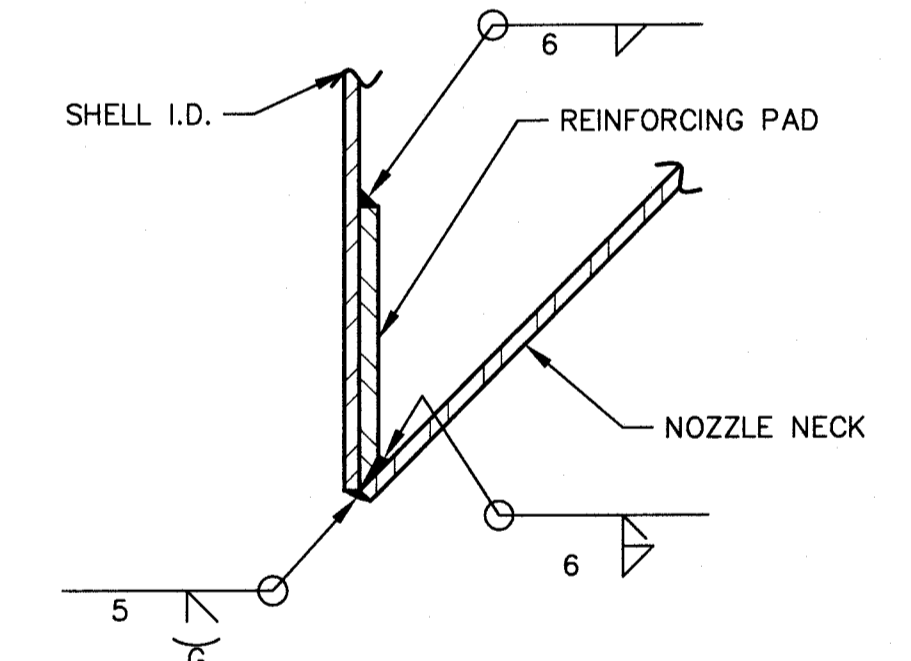
1. VESSEL VENDOR/SUB-CONTRACTOR TO FURNISH ALL MATERIAL SHOWN ON THIS DRAWING AND DRAWINGS REFERENCED HEREIN UNLESS NOTED OTHERWISE.
2. NOZZLE FLANGE BOLT HOLES TO STRADDLE VESSEL NATURAL VERTICAL CENTERLINE.
3. ALL WELDS TO BE CONTINUOUS, NO INTERMITTENT OR STITCH WELDS PERMITTED EXCEPT FOR TEMPORARY STIFFENER RINGS.
4. FABRICATOR DRAWINGS ARE TO INDICATE ALL WELDING SYMBOLS. REFERENCE THE WELDING PROCEDURE AND WELD METAL.
5. NO PAINTING IS REQUIRED ON THIS EQUIPMENT.
6. WELDING ELECTRODES SHALL CONFORM TO E308 SERIES FOR WELDING 304L STAINLESS TO 304L STAINLESS. FOR STAINLESS STEEL TO ZeCOR WELDING OR ZeCOR TO ZeCOR WELDING, ZeCOR ELECTRODES SHALL BE USED.
7. THE SURFACE TO RECEIVE HALAR LINING & GAS INLET I.D. TO BE SANDBLASTED TO A 3 MIL PROFILE.
8. INLET NOZZLE "PARTIAL SECTION" TO BE FABRICATED, SENT TO HALAR LINING SUBCONTRACTOR FOR LINING, THEN SHIPPED TO FIELD FOR FINAL ASSEMBLY TO TOWER.



HALF SECTION
SCALE = 1:10

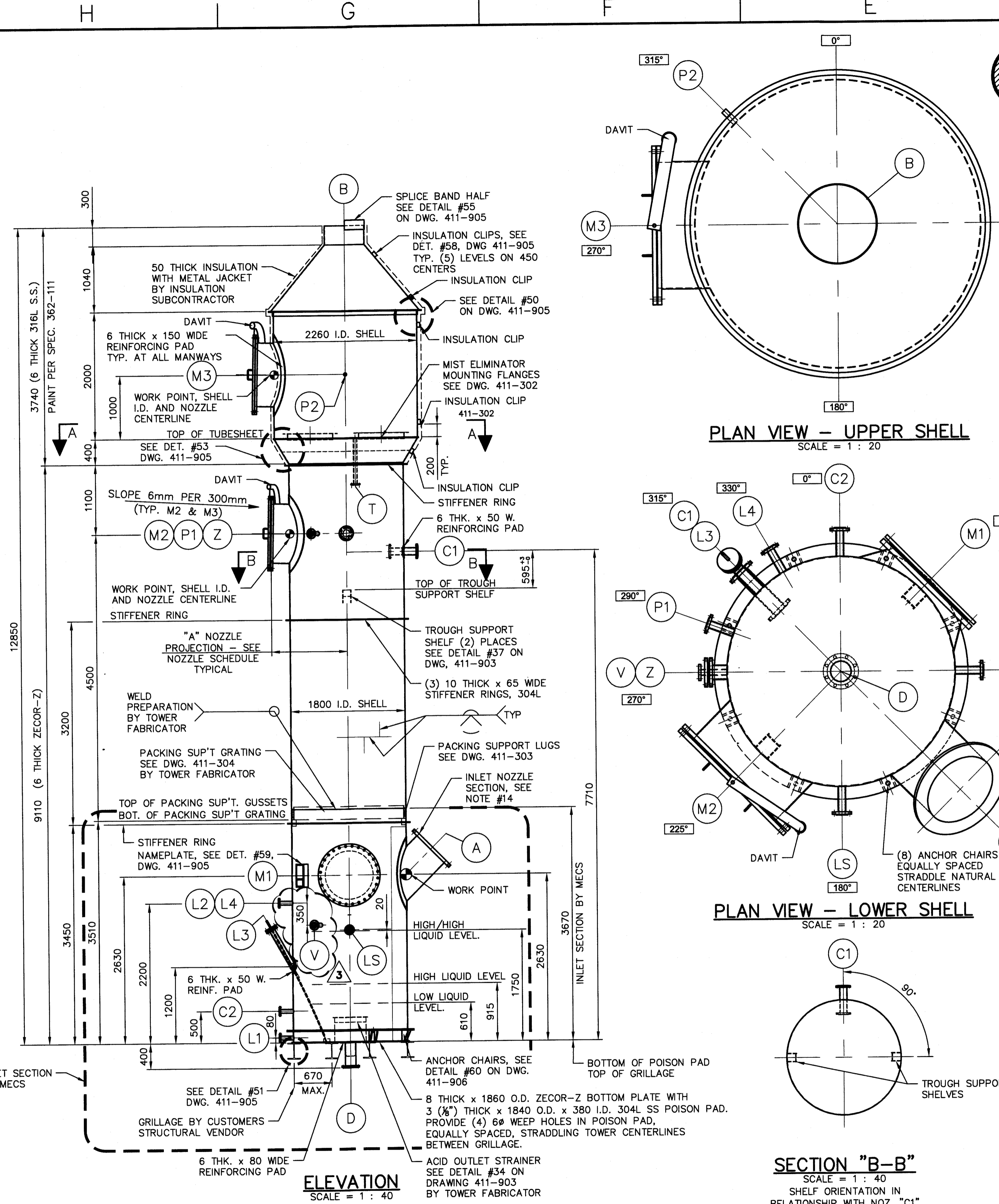


PLAN VIEW
SCALE = 1:10



DETAIL "A"
SCALE = 1:4

ALL DIMENSIONS SHOWN ARE IN MILLIMETERS UNLESS NOTED OTHERWISE.



MARK	QTY REQD	NOZZLE NECK - COUPLING				FLANGE			SERVICE	DETAIL (DWG NO.)	** REMARKS	
		SIZE	THICKNESS	* "A" PROJ	MAT'L	RATE	THICKNESS	FACE				MAT'L
A	1	24" NPS	6	SEE ELEV	ZECOR-Z	CLASS 150	ANSI	F.F.S.O.	304L	GAS INLET	(411-305) (411-306)	WITH HALAR LINING
B	1	630 O.D.	6	SEE ELEV.	316L	---	---	SPLICE BAND	316L	GAS OUTLET	#55 (411-905)	WITH SPLICE BAND
C1	1	4" NPS	6	1130	ZECOR-Z	CLASS 150	ANSI	LAP JOINT	304L	ACID INLET	#3 (411-901)	
C2	1	2" NPS	6	1130	ZECOR-Z	CLASS 150	ANSI	LAP JOINT	304L	DILUTION ACID INLET		
D	1	6" NPS	6	SEE ELEV.	ZECOR-Z	CLASS 150	ANSI	LAP JOINT	304L	ACID OUTLET	#2 (411-901)	W/STRAINER, DET. #34 411-903
L1	1	2" NPS	6	1130	ZECOR-Z	CLASS 150	ANSI	LAP JOINT	304L	LEVEL GAUGE		
L2	1	2" NPS	SCH 160	1130	ZECOR-C	CLASS 150	ANSI	LAP JOINT	304L	LEVEL GAUGE		
L3	1	3" NPS	SCH 160	SEE DETAIL	ZECOR-C	CLASS 150	ANSI	LAP JOINT	304L	LEVEL TRANSMITTER	#48 (411-904)	W/ZECOR-C DIP TUBE AND BLIND FLANGE, BY TOWER FABRICATOR
L4	1	2" NPS	SCH 160	1130	ZECOR-C	CLASS 150	ANSI	LAP JOINT	304L	LEVEL VENT		
LS	1	2" NPS	SCH 160	1130	ZECOR-C	CLASS 150	ANSI	LAP JOINT	304L	LEVEL SWITCH		
M1	1	760 I.D.	3	SEE DETAIL				SEE DETAIL	304L	LOWER SHELL MANWAY	#20, #23 (411-902)	FLUSH MANWAY WITH LIFTING LUG
M2	1	920 I.D.	6	1200	ZECOR-Z	BF36 BBF36	32	LAP JOINT	304L	DISTRIBUTOR MANWAY	#13 (411-901) #21, #27 (411-902)	WITH DAVIT
M3	1	990 I.D.	6	1430	316L	BF39/BBF39	32	R.F. BOLTED	304L	HOUSING MANWAY	#13 (411-901) #27 (411-902)	WITH DAVIT
P1	1	2" NPS	6	1130	ZECOR-Z	CLASS 150	ANSI	LAP JOINT	304L	PRESSURE CONNECTION	#5 (411-901)	
P2	1	1 1/2" NPS	80	SEE DETAIL	316L			SEE DETAIL	316L	PRESSURE CONNECTION	#12 (411-901)	WITH PLUG
T	1	2" NPS	SCH 40S	SEE DETAIL	316L	CLASS 150	ANSI	LAP JOINT	316L	TUBESHEET DRAIN	#40 (411-904)	SEE DWG. 411-302
V	1	1 1/2" NPS	SCH 160	1130	ZECOR-C	CLASS 150	ANSI	LAP JOINT	304L	PUMP REVENT		
Z	1	4" NPS	6	SEE DETAIL	ZECOR-Z	CLASS 150	ANSI	LAP JOINT	304L	MIST TEST	#7 (411-901)	WITH BLIND FLANGE

* NOZZLE PROJECTION IS TO FACE OF NOZZLE FLANGE - NQI TO FACE OF SLEEVE FLANGE.
** ALL ZECOR PARTS TO BE FURNISHED BY MEC.

MATERIAL OF CONSTRUCTION

UPPER SHELL SECTION
PLATE (STAINLESS STEEL): ASTM A-240 316L S.S.
TOP HEAD AND TUBESHEET: ASTM A-240 316L S.S.
PIPE: ASTM A-312 TP 316L S.S.
FORGINGS: ASTM A-182-F 316L S.S.
BARS, FLATS & RODS: ASTM A-479 316L S.S.
BOLTS: ASTM A-193-B8M
NUTS: ASTM A-194-8M

LOWER SHELL SECTION
PLATE: ASTM A-240 ZecOR-Z
PIPE (SMLS, WELDED): ASTM A-312/A-358 WELDED ZecOR-Z OR ZecOR-C
FORGINGS: ASTM A-182-F 304L S.S.
BARS, FLATS & RODS: ASTM A-479 304L/ZecOR-Z
BOLTS: ASTM A-193-B8M
NUTS: ASTM A-194-8M

MISCELLANEOUS
EXTERNAL ATTACHMENTS: 304L S.S.
GASKETS: 3mm THICK GARLOCK GYLON FAWN OR BLUE STYLE 3500 OR 3504

REFERENCE DRAWINGS

- 411-300 ZECOR-Z TOWERS - NAMEPLATE DETAILS
- 411-301.01 PLATEWORK - DRYING TOWER - DESIGN CRITERIA
- 411-302 PLATEWORK - DRYING TOWER - TUBESHEET SECTIONS AND DETAILS
- 411-303 PLATEWORK - DRYING TOWER - PACKING SUPPORT LUGS
- 411-304 PLATEWORK - DRYING TOWER - PACKING SUPPORT GRATING
- 411-305 PLATEWORK - DRYING TOWER - HALAR LINING DETAILS
- 411-306 PLATEWORK - DRYING TOWER - INLET NOZZLE PARTIAL DETAIL
- 411-401 ASSEMBLY - DRYING TOWER
- 411-901 VESSEL STANDARD DETAILS - NOZZLE CONNECTION DETAILS
- 411-902 VESSEL STANDARD DETAILS - MANWAY DETAILS
- 411-903 VESSEL STANDARD DETAILS - INTERNAL CONNECTION DETAILS
- 411-904 VESSEL STANDARD DETAILS - INTERNAL CONNECTION DETAILS
- 411-905 VESSEL STANDARD DETAILS - EXTERNAL ATTACHMENT DETAILS
- 411-906 VESSEL STANDARD DETAILS - ANCHOR CHAIR DETAILS
- 411-907 VESSEL STANDARD DETAILS - MIST ELIMINATOR MOUNTING FLANGES

REFERENCE SPECIFICATIONS

- 412-001 ALLOY PLATEWORK
- 412-002 DYE PENETRANT EXAMINATION
- 412-007 ALLOWABLE NOZZLE LOADS FOR ALLOY TOWERS AND PUMPTANKS
- 416-001 ITP FOR ALLOY TOWER

GENERAL NOTES

- VESSEL VENDOR/SUB-CONTRACTOR TO FURNISH ALL MATERIAL SHOWN ON THIS DRAWING AND DRAWINGS REFERENCED HEREIN UNLESS NOTED OTHERWISE.
- NOZZLE FLANGE BOLT HOLES TO STRADDLE VESSEL NATURAL VERTICAL CENTERLINE.
- ALL FLANGES WITH BLINDS OR COVER PLATES TO BE FURNISHED WITH HEX HEAD BOLTS, HVY HEX NUTS AND GASKETS.
- FLANGE FACES SHALL BE PER ASME B16.5 SECTION 6.4.5 "FLANGE FACING FINISH".
- ALL EXTERNAL NOZZLE REINFORCING PADS SHALL BE PROVIDED WITH A 6mm NPT TAPPED HOLE TO FACILITATE AN AIR & SOAP BUBBLE TEST
- ALL WELDS TO BE CONTINUOUS, NO INTERMITTENT OR STITCH WELDS ARE PERMITTED.
- VESSEL WELDING ELECTRODES TO CONFORM TO E308 OR 316L SERIES FOR WELDING S.S. TO S.S. USE ZECOR-Z WELDING ROD FOR ZECOR-Z TO S.S. AND ZECOR-Z TO ZECOR-Z. VESSEL FABRICATOR TO INDICATE WELD RODS TO BE USED.
- LADDER AND PLATFORM LOADS, IF ANY, SHOULD NOT BE SUPPORTED BY THE TOWER SHELL.
- NO BACK-UP STRIPS ARE PERMITTED FOR WELDING THE BOTTOM PLATE.
- THE BOTTOM PLATE MUST BE FLAT - MAXIMUM TOLERANCE ±12mm ACROSS THE DIAMETER.
- NO INTERNAL NOZZLE PROJECTIONS ARE PERMITTED UNLESS NOTED OTHERWISE.
- PERSONNEL PROTECTION REQUIRED AT PLATFORM LEVELS AND AREAS WHERE ACCESSIBLE.
- LIFTING LUGS FOR SHIPMENT OR ERECTION ARE TO BE DESIGNED AND PROVIDED BY THE FABRICATOR.
- INLET NOZZLE "PARTIAL SECTION" TO BE FABRICATED AND HALAR LINED BY VESSEL FABRICATOR TO BE FIT INTO FINAL ASSEMBLY. SEE DESIGN DRAWINGS 411-305 & 411-306.
- NO HYDROTEST IS PERMITTED.

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DuPont Sustainable Solutions
CLEAN TECHNOLOGIES
MECS *Engineered Alloy Products*
Sulfuric Acid Technology

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PLATEWORK
DRYING TOWER T-2301
ELEVATION, PLAN AND GENERAL NOTES
YULIN CITY, SHANXI CHINA

DUPONT DWG NO. 411-301	
BY	KAD
DATE	11NOV14
SCALE	AS NOTED
CHK'D	GCE
APP'D	AKN
JOB NO.	7NC77 / F234
REVISION	DOC CAT
13 MARCH 2015 FABRICATION	
3	

NO.	DATE	DESCRIPTION	DRAWN	CHK'D	APP'D	APP'D
3	15-MAR-15	LOWERED NOZ. "V"; REMOVED "S" FROM SCH 160 PIPE	KAD	GCE	AKN	AKN
2	20-FEB-15	ADDED I.D. TO POISON PAD; CONFIRMED ORIENTATION PER CER; REVISED NOZ. "B" & "V"	KAD	GCE	AKN	AKN
1	19-DEC-14	REVISED NOZZLE "D" PROJECTION, NOZZLE "L3" MATERIAL OF CONSTRUCTION AND NOZZLE "M1" I.D.; ADDED DWG. 411-301.01 AND REFERENCE SPEC'S; REVISED M.O.C. & FABRICATION SCOPE BREAK	KAD	GCE	AKN	AKN