

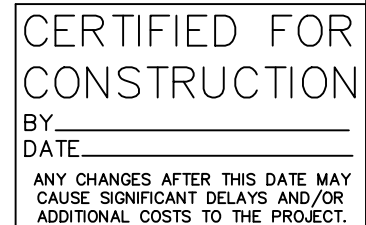
VESSEL / TANK DATA SHEET

DESIGN DATA	DESCRIPTION		12'-0" O.D. x 20'-0" HIGH		No. REQ'D 01		CAPACITY 400 BBL		APPROX. WT: EMPTY 19 553 LBS		PAINTING & COATING DATA							
	DESIGN PRESSURE		16oz/sq.in.		INTERNAL 0.4oz/sq.in.		EXTERNAL (VACUUM)		FULL OF WATER 160 698 LBS		DESCRIPTION		SMR # (INT. USE ONLY)					
	OPERATING PRESSURE		16 oz/sq.in. MAX.		INTERNAL 0.4oz/sq.in.		EXTERNAL (VACUUM)											
	TEST PRESSURE		6oz		TEST TEMPERATURE		AMBIENT											
	DESIGN TEMPERATURE		N/A								1. EXTERIOR OF SHELL, ROOF, & BUILDING TO RECEIVE:							
	JOINT EFFICIENCY		SHELL N/A		HEAD N/A		CONE N/A				2" THK FIBERGLASS INSULATION c/w CORRUGATED							
	CORROSION ALLOWANCE		SHELL NIL		ROOF NIL		BOTTOM NIL		NOZZLES NIL		STRUCTURALS NIL		ALUMINIUM CLADDING, S.S. BANDING & SCREWS					
	CODE & STAMP		G.L.M. INTERNAL PROCEDURE 770-1															
	CUSTOMER SPECIFICATIONS		NONE															
	EXTERNAL LOADINGS		ROOF 25 PSF		WIND N/A		SEISMIC		ZONE 0		2. EXTERIOR OF BOTTOM, SKID, NOZZLES, & INTERIOR OF BUILDING & DOORS, EXTERIOR OF DOORS TO RECEIVE:							
	ROOF TO SHELL BACKWELDED		YES								- SSPC-SP7 BRUSH BLAST USING SIL 7.							
	SPECIFIC GRAVITY		1.0								- (1) COAT BAR-OX 752 PRIMER							
	SERVICE										- (1) COAT BAR-OX 751 ALKYD ENAMEL							
	P.W.H.T.		NONE								- (DEVOE 224 BLUE)							
MATERIALS	SHELL		A-36 OR EQ.								3. INTERIOR OF SHELL, ROOF, BOTTOM, NOZZLES, & APPURTENANCES TO RECEIVE:							
	HEAD(S)		N/A								- NEAR WHITE METAL BLAST (SSPC 10) USING SIL 7							
	CONE(S)		N/A								(12-15 MILS DFT) DEVOE 253 EPOXY							
	BOTTOM		A-36 OR EQ.															
	ROOF		A-36 OR EQ.															
	NOZZLE		NECK A-106-B		FLANGE A-105													
	MANWAY		NECK A-36 OR EQ.		FLANGE A-36 OR EQ.		COVER A-36 OR EQ.											
	REINFORCING PADS		A-36 OR EQ.															
	PIPING		A-106-B															
	COUPLINGS		API-5L/ A-105 / A-182-F-304															
	FITTINGS		A-234-WPB															
	BOLTING		BOLT EXT.: GRADE 2 / INT.: 304 SSSTUD N/A		NUTS EXT.: GRADE 2 / INT.: 304 SS													
	GASKETS		NOZZLES NON-ASB.		MANWAY NON-ASB.		THIEF HATCH NON-ASB.											
	STRUCTURAL		G40.21-44W															
ELECTRODES		PER GLM STANDARD WELD PROCEDURES																
CONSTRUCTION	FOUNDATION		BY OTHERS								CERTIFIED FOR CONSTRUCTION BY _____ DATE _____ ANY CHANGES AFTER THIS DATE MAY CAUSE SIGNIFICANT DELAYS AND/OR ADDITIONAL COSTS TO THE PROJECT.							
	CATHODIC PROTECTION		NONE															
	LADDERS & PLATFORMS		GLM STANDARD															
	MISCELLANEOUS		-THIS TANK HAS BEEN BUILT IN ACCORDANCE WITH GOOD ENGINEERING PRACTICES REFERENCEING THE APPLICABLE CODES															
			-ALL SHELL NOZZLES TO STRADDLE VERTICAL CENTERLINES															
			-ALL ROOF NOZZLES TO STRADDLE TANK RADIAL CENTERLINE															
			-OPEN CONNECTIONS SHALL BE PROVIDED WITH TEMPORARY SHIPPING BLINDS															
			-LIFTING LUGS ARE FOR LIFTING EMPTY TANK/VESSEL ONLY															
			-SHOP TRIAL FIT ALL APPURTENANCES PRIOR TO PAINTING AND COATING															
			-SHOP TO LOCATE LIFT LUGS.															
			-ALL INSPECTIONS TO OBTAIN THICKNESS READINGS AND RECORD SAME, ARE AS PER SSPC-PA2															
			-ALL INSPECTION HOLIDAY DETECTION TOBE CONDUCTED IN ACCORDANCE WITH NACE RPO 188-90															
QUALITY ASSURANCE	Q.A. MANUAL		GLM QUALITY MANUAL						ENGINEERING: BATTLEFORD		FABRICATION: NISKU							
	MILL CERTIFICATIONS		NONE REQUIRED.						PROJECT ENG. APPROVAL & DATE:		12/10/01		REV'D AS PER CUSTOMER MARK-UPS REC'D 12/10/01		MD			
	WELDERS		QUALIFIED PER ASME SECTION IX						CHECKED BY & DATE:									
	WELDING		PER ASME SECTION IX						DRAWN BY MELODIE DUNBAR & DATE: DECEMBER 4, 2001									
	TESTING	NONDESTRUCTIVE TESTING		NONE						TOLERANCES:		770-1		DESCRIPTION: TANK DATA HUSKY OIL c/o BDR ENG. 12'-0" O.D. x 20'-0" HIGH (PRIMARY) 400 BBL DOUBLE WALL TANK				
		SPECIAL TESTING		NONE										TAG# T-710				
		SHELL		PRESSURIZE INTERSTITIAL AREA TO 6oz. & AIR/SOAP FILM LEAK TEST PRIMARY & SECONDARY SHELL						CRN # / NATL BD #		N/A		SCALE: N.T.S.		REV.		
		ROOF								PURCHASE ORDER #		N/A		DRAWING NUMBER		D-01-361-S2-1		1
	BOTTOM		VACUUM BOX TEST TO 1.5 PSIG															

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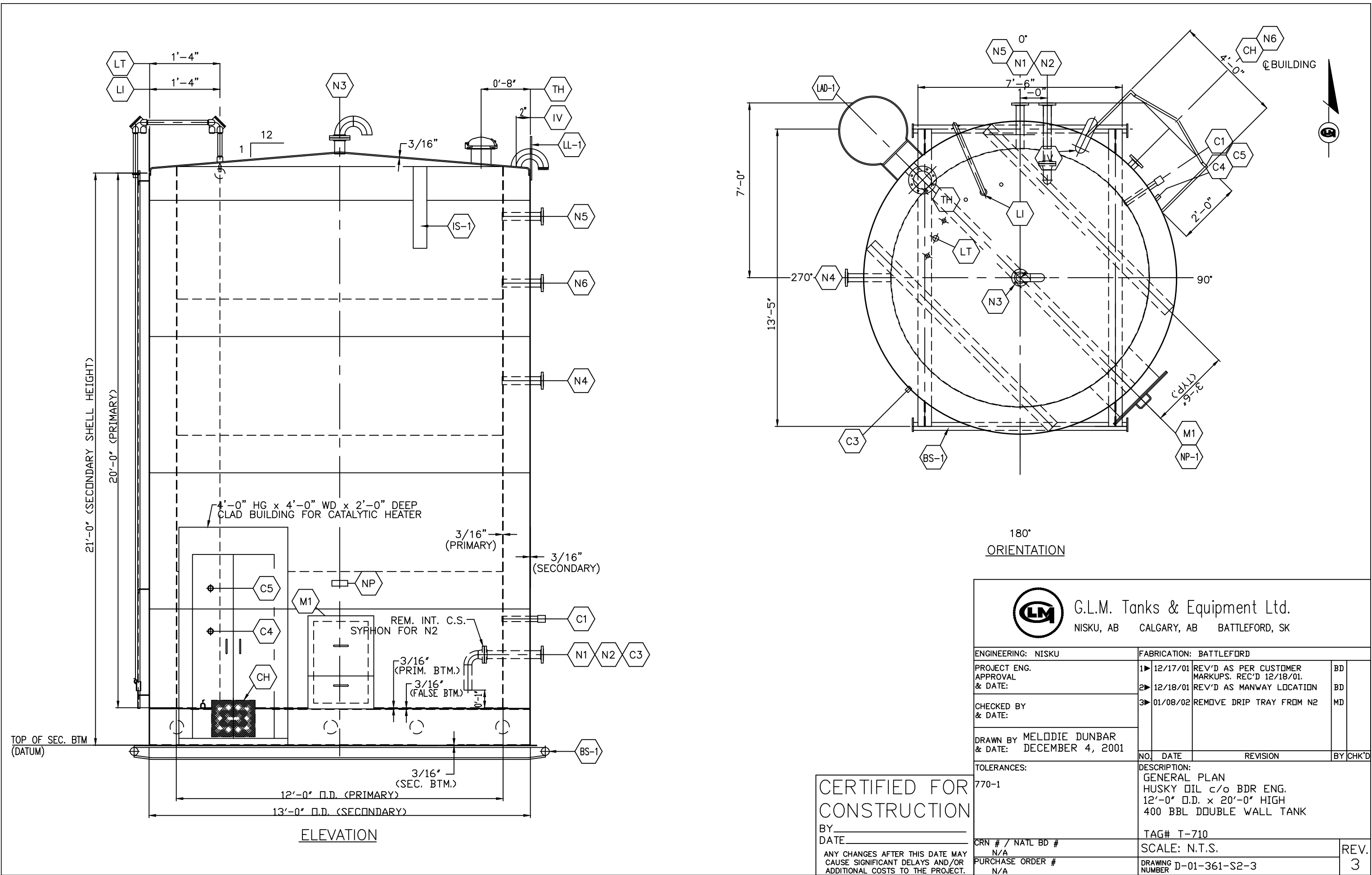
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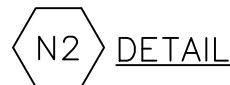
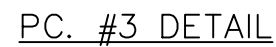
1. ELEVATIONS ARE GIVEN REFERENCEING NEAREST DATUM LOCATED BELOW ITEM LOCATION.
2. ALL ARC LENGTHS ARE MEASURED ON OUTSIDE OF SEC. BOTTOM SHELL COURSE (OUTSIDE DIAMETER = 13'-0")
3. ARCS ARE MEASURED CLOCKWISE REFERENCEING NEAREST MAJOR CENTERLINE
4. TANK CIRCUMFERENCE = 40'-10 3/32"
90° ARC LENGTH = 10'-2 17/32"
5. "T" - INDICATES TANGENTIAL NOZZLES.



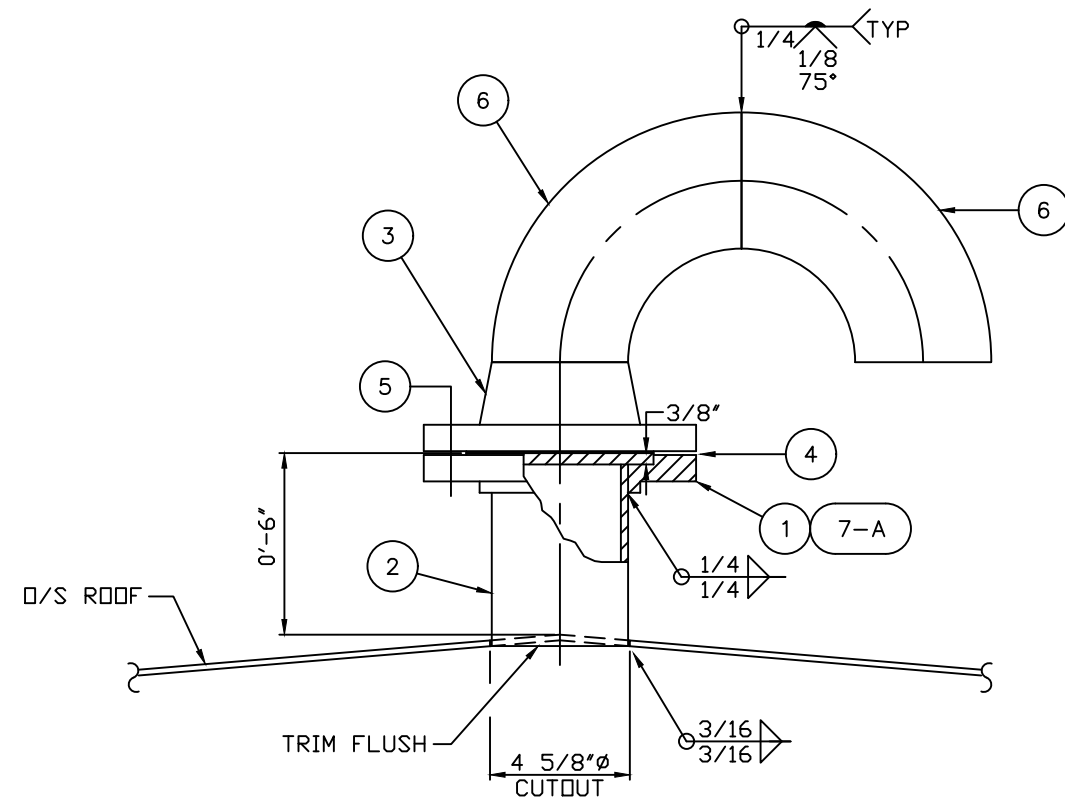
NISKU, AB CALGARY, AB BATTLEFORD, SK

ENGINEERING: NISU		FABRICATION: BATTLEFORD	
1	PROJECT ENG. APPROVAL & DATE:	1▶ 12/10/01	REV'D AS PER CUSTOMER MARK-UPS REC'D 12/10/01
1	CHECKED BY & DATE:	2▶ 12/18/01	REV'D MANWAY LOCATION
		3▶ 01/07/01	REV'D SIZE OF CATALYTIC HEATER
		4▶ 01/08/02	REMOVE DRIP TRAY FROM N2
DRAWN BY MELODIE DUNBAR & DATE: DECEMBER 4, 2001			
		NO. DATE	REVISION
TOLERANCES:		DESCRIPTION:	
770-1		NOZZLE SCHEDULE	
		HUSKY OIL c/o BDR ENG.	
		12'-0" O.D. x 20'-0" HIGH (PRIMARY)	
		400 BBL DOUBLE WALL TANK	
		TAG# T-710	
CRN # / NATL BD #		SCALE: N.T.S.	
N/A			
PURCHASE ORDER #		DRAWING NUMBER	
N/A		D-01-361-S2-2	
		REV. 4	



[illegible]

		G.L.M. Tanks & Equipment Ltd. NISKU, AB CALGARY, AB BATTLEFORD, SK			
ENGINEERING: BATTLEFORD		FABRICATION: BATTLEFORD			
PROJECT ENG. APPROVAL & DATE:		1 ►	01/08/02	REMOVE DRIP TRAY	MD
CHECKED BY & DATE:					
DRAWN BY M. DUNBAR & DATE: DECEMBER 10, 2001					
		NO.	DATE	REVISION	BY CHK'D
TOLERANCES: 770-1		DESCRIPTION: NOZZLE N2 DETAIL HUSKY OIL c/o BDR ENG. 12'-0" O.D. x 20'-0" HIGH (PRIMARY) 400 BBL DOUBLE WALL TANK TAG# T-710			
CRN # / NATL BD # N/A		SCALE: N.T.S.			REV.
PURCHASE ORDER # N/A		DRAWING NUMBER D-01-361-S2-6			1



BILL OF MATERIAL QUANTITIES SHOWN ARE FOR (01) TANK, (01) REQ'D										
SHIPPING PIECE	MARK		TOTAL QTY.	DESCRIPTION	SPECIFICATION	WEIGHT (LBS)	MAT'L CODE	PURCHASING		
	SHOP ASS'Y	PIECE						SUPPLIER & P.O.#	ITEM	MISC.
	7-A		1	4"Ø ROOF NOZZLE		(45)				
		1	1	4"Ø 150# RFSD FLG	A-105	15	D			
		2	1	4"Ø STD WT SMLS PIPE x	A-106-B	5	D			
				0'-9 3/8" LG						
				(INCLUDES 0'-3' TRIM ALLOWANCE)						
		3	1	4"Ø 150# RFWN FLG	A-105	17	D			
		4	1	4"Ø 150# RING GSK'T	NON ASB	-	D			
		5	8	5/8"Ø X 3 1/4" LG BOLTS	GRADE 2	2	D			
				c/w (1) NUT EA.						
		6	2	4" STD WT 90 DEG L.R. ELBOW	NON ASB	6	D			
		7	1	6"Ø BIRDSCREEN MESH	C.S.	-	D			
		8	1	5"Ø SERPENTINE CLAMP	S.S.	-	D			

 G.L.M. Tanks & Equipment Ltd. NISKU, AB CALGARY, AB BATTLEFORD, SK				
ENGINEERING: BATTLEFORD		FABRICATION: BATTLEFORD		
PROJECT ENG. APPROVAL & DATE:		NO. DATE	REVISION	BY CHK'D
CHECKED BY & DATE:				
DRAWN BY M. DUNBAR & DATE: DECEMBER 10, 2001				
TOLERANCES: 770-1		DESCRIPTION: NOZZLE N3 DETAIL HUSKY OIL c/o BDR ENG 12'-0" O.D. x 20'-0" HIGH (PRIMARY) 400 BBL DOUBLE WALL TANK TAG# T-710		
CRN # / NATL BD # N/A		SCALE: N.T.S.		REV. 0
PURCHASE ORDER # N/A		DRAWING NUMBER D-01-361-S2-7		

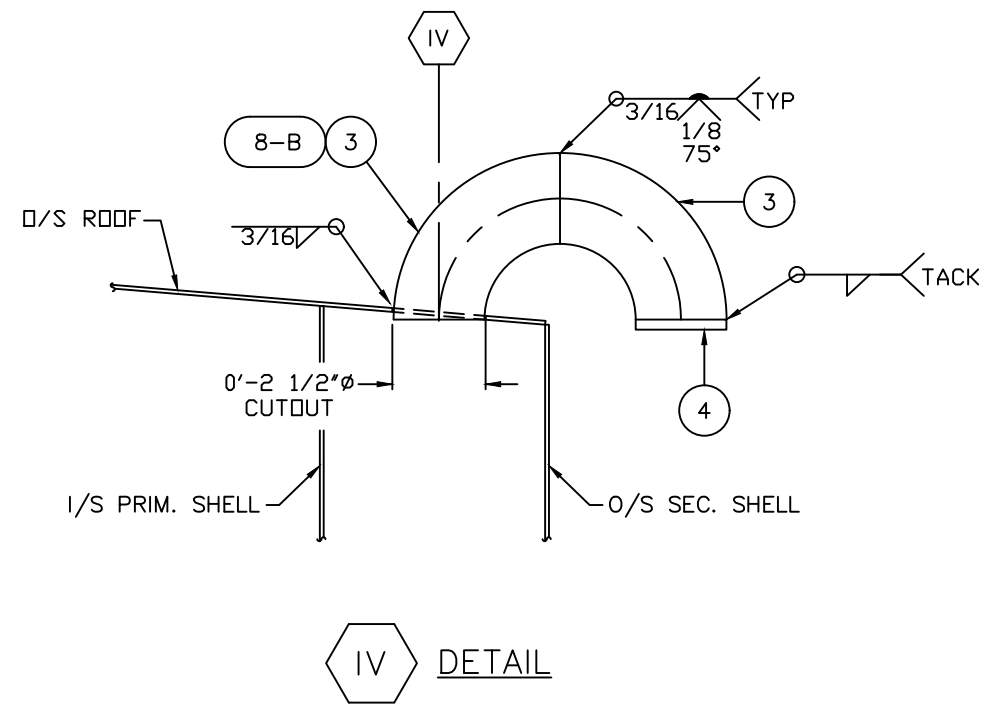
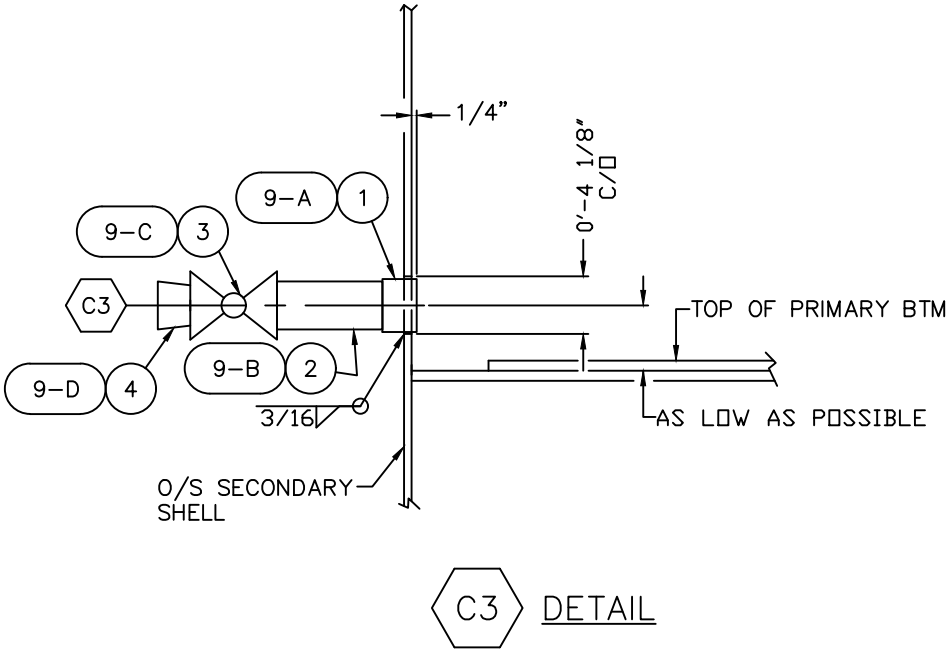


Diagram showing three overlapping hexagons labeled IV, C5, and C4.

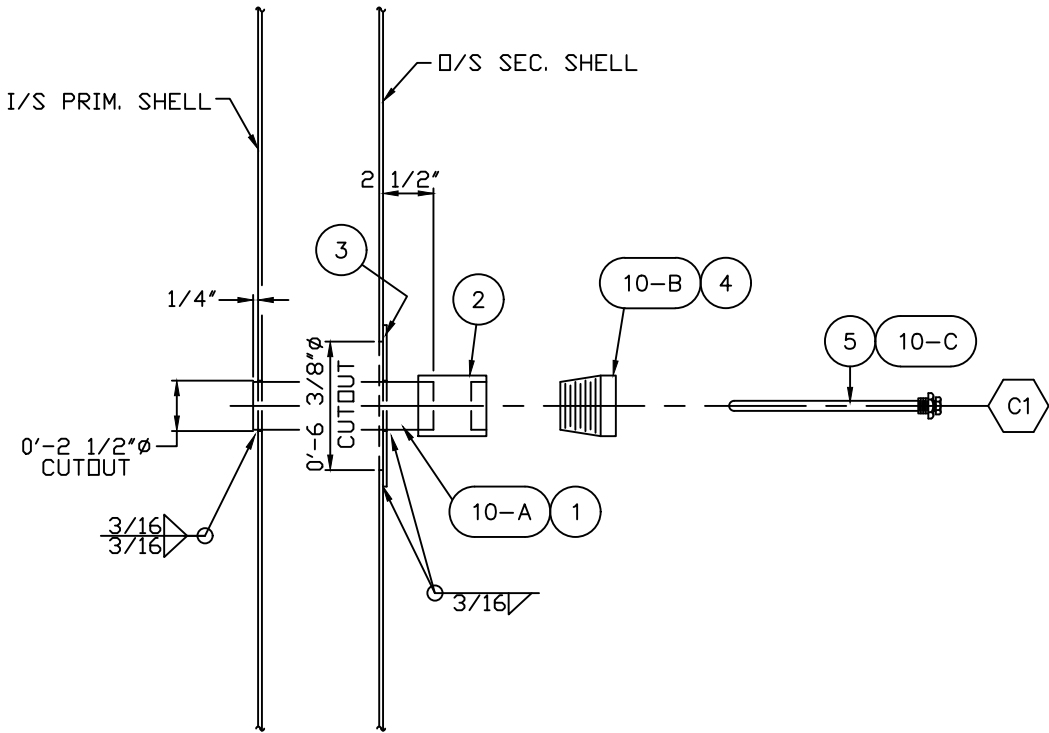
		G.L.M. Tanks & Equipment Ltd. NISKU, AB CALGARY, AB BATTLEFORD, SK				
ENGINEERING: BATTLEFORD		FABRICATION: BATTLEFORD				
PROJECT ENG. APPROVAL & DATE:						
CHECKED BY & DATE:						
DRAWN BY M. DUNBAR & DATE: DECEMBER 10, 2001						
		NO.	DATE	REVISION	BY	CHK'D
TOLERANCES: 770-1		DESCRIPTION: CPLG. C4, C5, & IV DETAIL HUSKY OIL c/o BDR ENG. 12'-0" O.D. x 20'-0" HIGH (PRIMARY) 400 BBL DOUBLE WALL TANK TAG# T-710				
CRN # / NATL BD # N/A		SCALE: N.T.S.			REV.	
PURCHASE ORDER # N/A		DRAWING NUMBER D-01-361-S2-8			0	

BILL OF MATERIAL QUANTITIES SHOWN ARE FOR (01) TANK, (01) REQ'D										
SHIPPING PIECE	MARK		TOTAL QTY.	DESCRIPTION	SPECIFICATION	WEIGHT (LBS)	MAT'L CODE	PURCHASING		
	SHOP ASS'Y	PIECE						SUPPLIER & P.O.#	ITEM	MISC.
	9-A		1	3"Ø SHELL COUPLING		(2)				
		1	1	3"Ø RLC HALF CPLG	API-5L	2	D			
9-B		2	1	3"Ø STD WT NIPPLE × 2" LG	A-106-B	(1)	D			
9-C		3	1	3"Ø CLIP GATE VALVE MODEL# T1590	MFG STD	(1)	D			
9-D		4	1	3"Ø 150# NPT SQ. HD PLUG	M.I.	(1)	D			

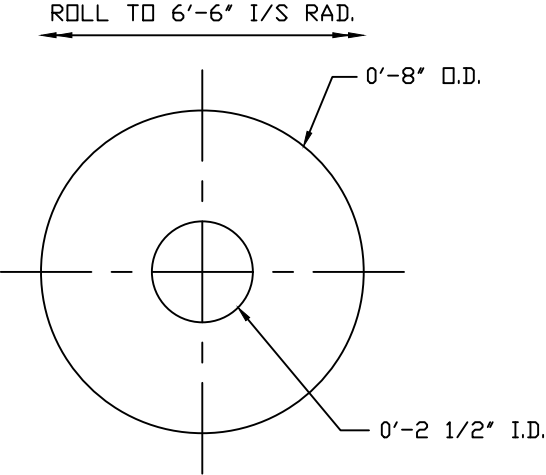


 G.L.M. Tanks & Equipment Ltd. NISKU, AB CALGARY, AB BATTLEFORD, SK				
ENGINEERING: BATTLEFORD		FABRICATION: BATTLEFORD		
PROJECT ENG. APPROVAL & DATE:		NO. DATE	REVISION	BY CHK'D
CHECKED BY & DATE:				
DRAWN BY M. DUNBAR & DATE: DECEMBER 10, 2001				
TOLERANCES: 770-1		DESCRIPTION: COUPLING C3 DETAIL HUSKY OIL c/o BDR ENG. 12'-0" O.D. × 20'-0" HIGH (PRIMARY) 400 BBL DOUBLE WALL TANK TAG# T-710		
CRN # / NATL BD # N/A		SCALE: N.T.S.		REV. 0
PURCHASE ORDER # N/A		DRAWING NUMBER D-01-361-S2-9		

BILL OF MATERIAL QUANTITIES SHOWN ARE FOR (01) TANK, (01) REQ'D										
SHIPPING PIECE	MARK		TOTAL QTY.	DESCRIPTION	SPECIFICATION	WEIGHT (LBS)	MAT'L CODE	PURCHASING		
	SHOP ASS'Y	PIECE						SUPPLIER & P.O.#	ITEM	MISC.
	10-A		1	2"Ø SHELL NOZZLE		(7)				
		1	1	2"Ø STD WT SMLS PIPE x 0'-10 1/2' LG	A-106-B	3	D			
				(T.D.E.)						
		2	1	2"Ø 3000# NPT FULL CPLG	304 S.S.	2	D			
		3	1	3/16" PL. x SKETCH	A-36 OR EQ.	2	D			
10-B		4	1	2" x 1/2" 3000# NPT RED. BUSHING	304 S.S.	(1)	D			
	10-C	5	1	1/2"Ø THERMOWELL x 0'-9' LG	S.S.	(1)	D			



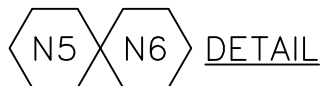
C1 DETAIL



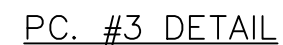
PC. #3 DETAIL

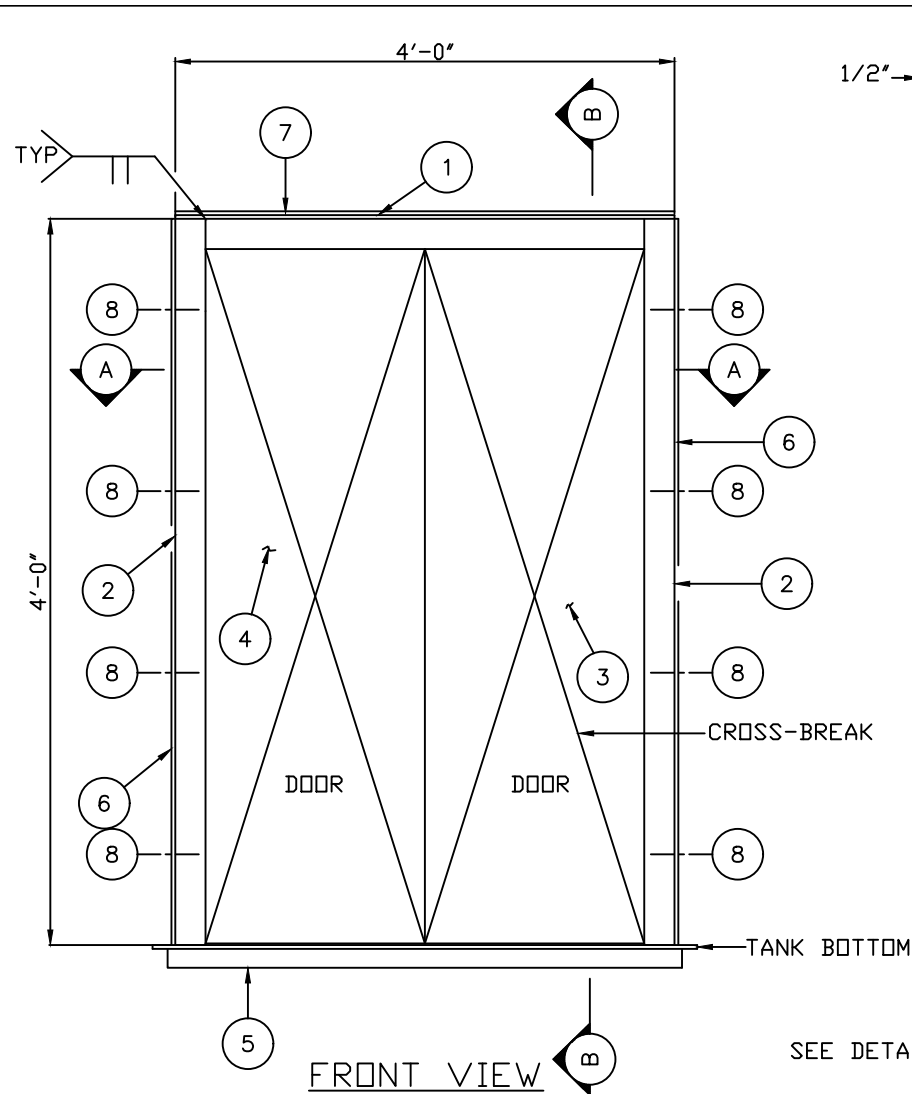
C1

G.L.M. Tanks & Equipment Ltd. NISKU, AB CALGARY, AB BATTLEFORD, SK				
ENGINEERING: BATTLEFORD		FABRICATION: BATTLEFORD		
PROJECT ENG. APPROVAL & DATE:				
CHECKED BY & DATE:				
DRAWN BY M. DUNBAR & DATE: DECEMBER 10, 2001				
TOLERANCES: 770-1		NO.	DATE	REVISION
CRN # / NATL BD # N/A		DESCRIPTION: CPLG. C1 DETAIL HUSKY OIL c/o BDR ENG. 12'-0" O.D. x 20'-0" HIGH (PRIMARY) 400 BBL DOUBLE WALL TANK TAG# T-710		
PURCHASE ORDER # N/A		SCALE: N.T.S.		
		DRAWING NUMBER D-01-361-S2-10		
		REV. 0		

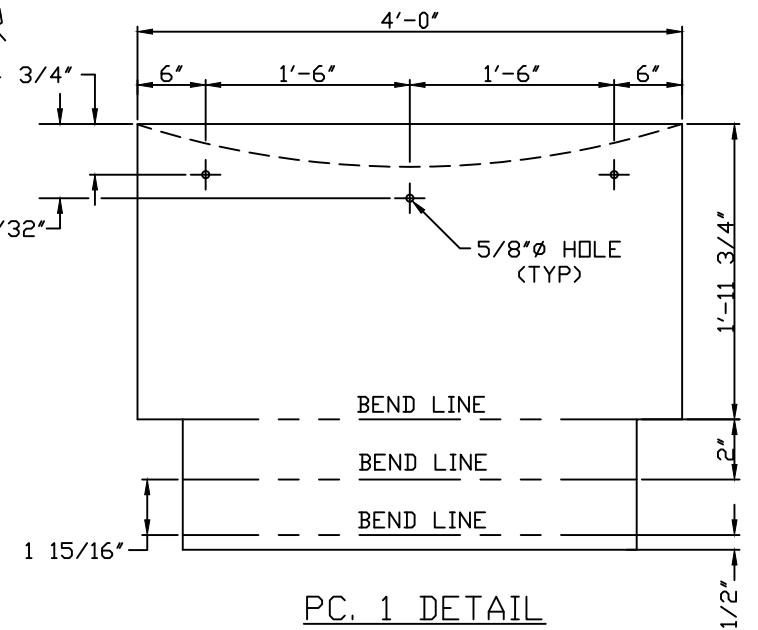
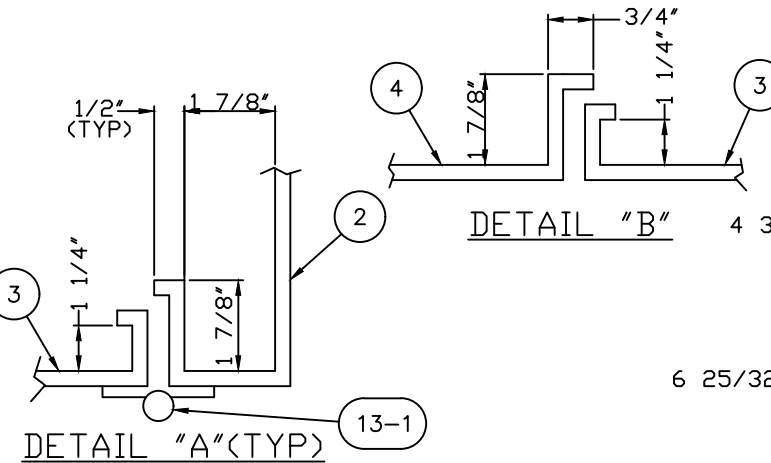
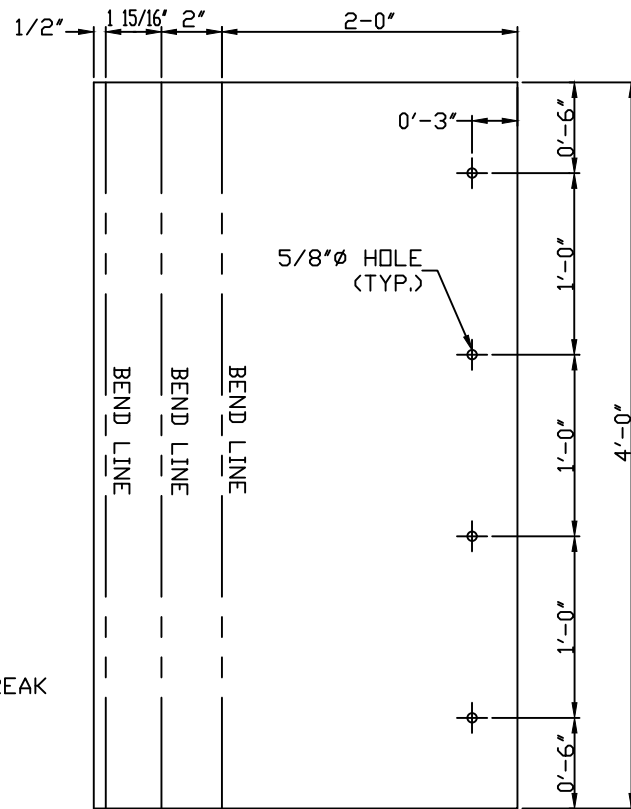


ROLL TO 6'-6" I/S RADIUS



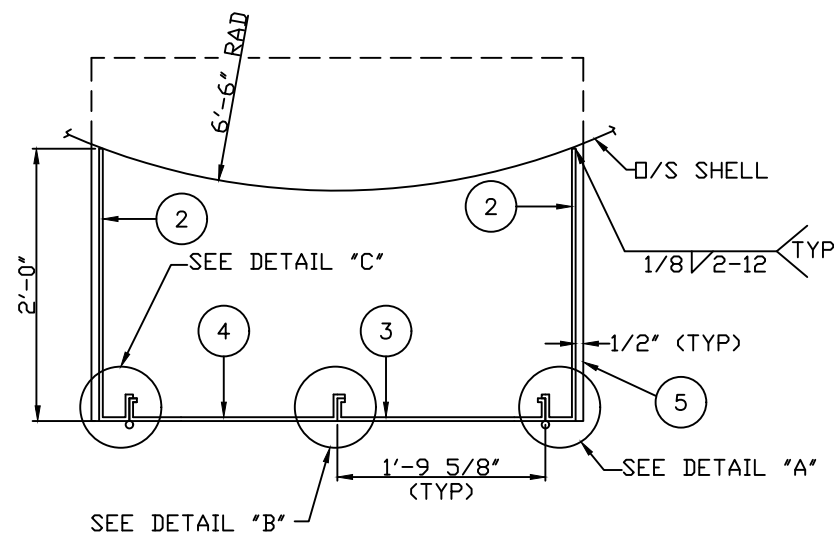


PC. 2 DETAIL

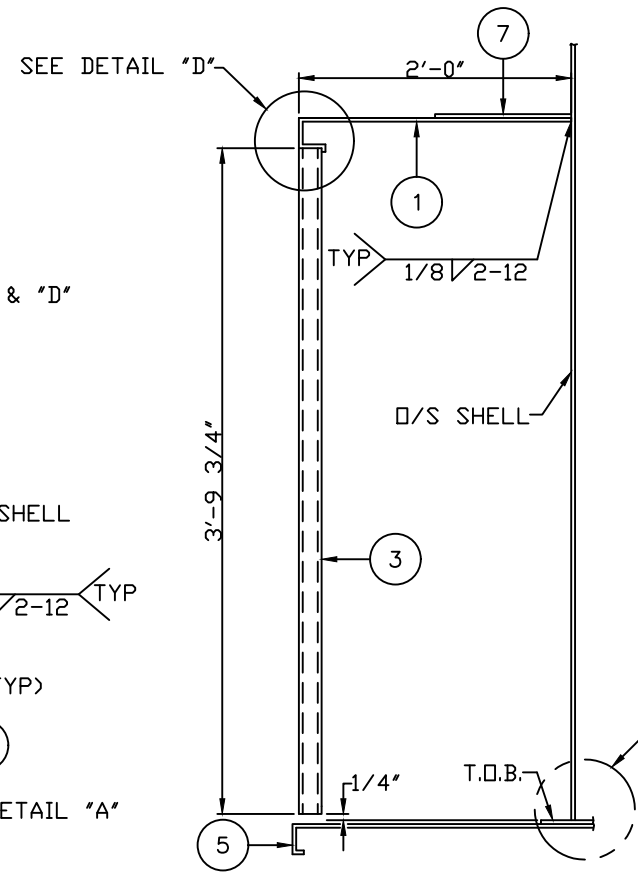


PC. 1 DETAIL

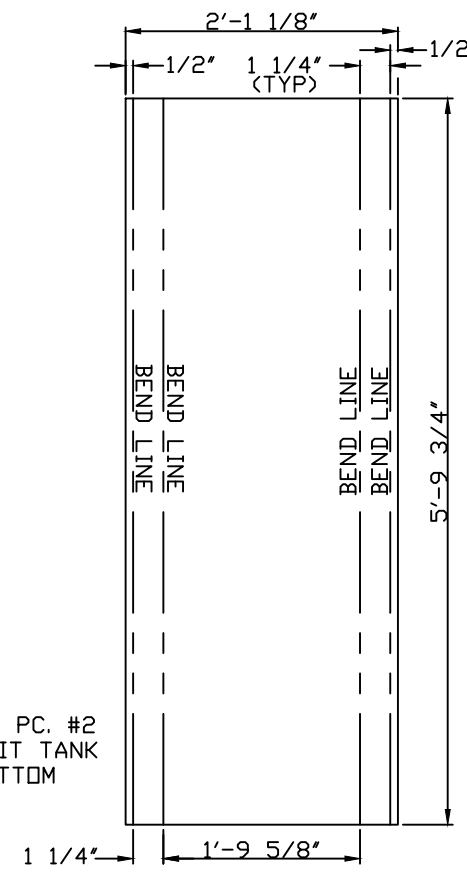
- NOTE:
- HOLE TO BE CUT IN (1) PC.3 TO SUIT HEATER OUTLET
 - SEE DWG D-01-361-S1-13 FOR PC. 4, 5, 6 & 7 DETAIL & DETAILS "C" & "D"



SECTION "A-A"



SECTION "B-B"

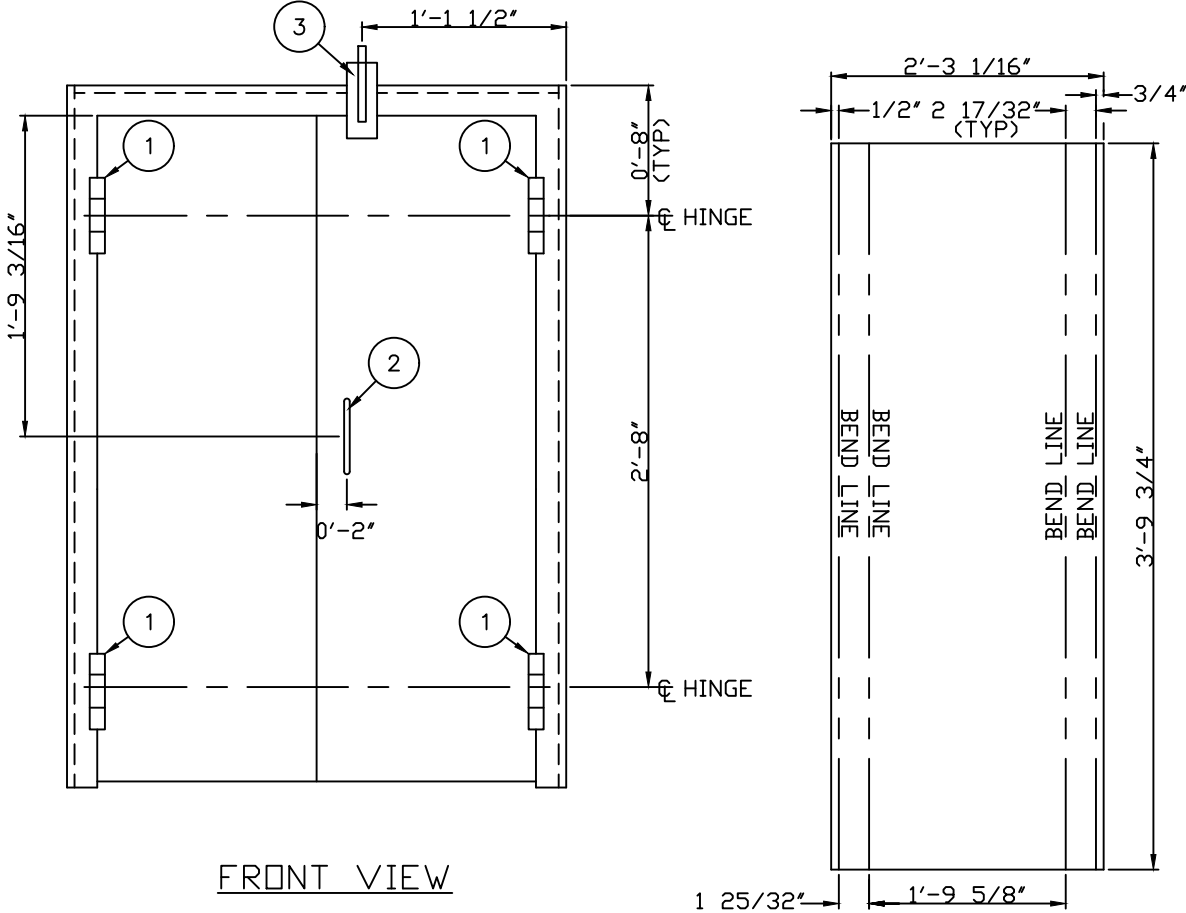


PC. 3 DETAIL

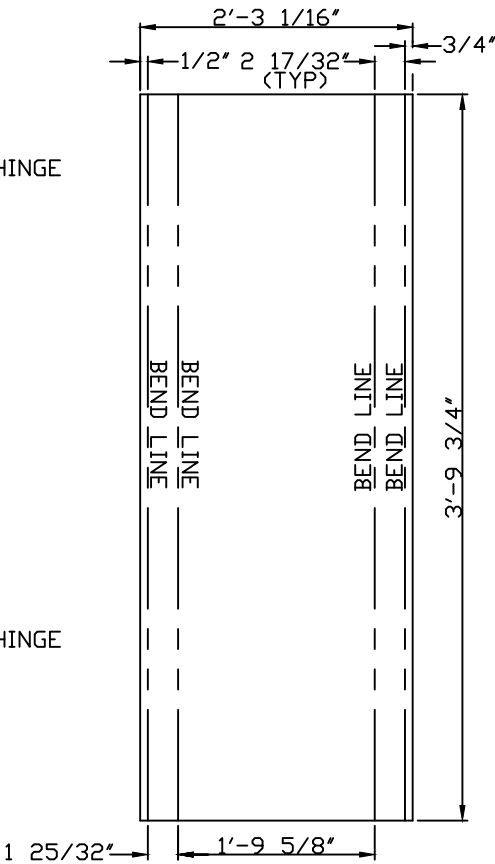
BILL OF MATERIAL QUANTITIES SHOWN ARE FOR (01) TANK, (01) REQ'D										
MARK	SHIP	SHIP	TOTAL	DESCRIPTION	SPECIFICATION	WEIGHT	MAT'L	PURCHASING		
PIECE	PIECE	ASSY	QTY.			(LBS)	CODE	SUPPLIER & P.O.#	ITEM	MISC.
12-A			1	HEATER BUILDING		(385)				
			1	10 GA. PL. x 2'-4 3/16" WD x 4'-0" LG	A-36 DR EQ.	51	D			
			2	10 GA. PL. x 2'-4 7/16" WD x 4'-0" LG	A-36 DR EQ.	75	D			
			3	10 GA. PL. x 2'-1 1/8" WD x 3'-9 3/4" LG	A-36 DR EQ.	67	D			
			4	10 GA. PL. x 2'-3 1/16" WD x 3'-9 3/4" LG	A-36 DR EQ.	68	D			
			5	10 GA. PL. x 2'-7 3/4" WD x 4'-1" LG	A-36 DR EQ.	55	D			
			6	1/4" x 6" F.B. x SHETCH	G40.21-44W	45	D			
			7	1/4" x 6" F.B. x SHETCH	G40.21-44W	20	D			
			8	1/2" HEX HD BOLTS x 1 1/4" LG w/ NUTS	GRADE 2	3	D			
			9	3# 1-10H EXPANDED METAL x 0'-4" O.D.	C.S.	1	D			

 G.L.M. Tanks & Equipment Ltd. NISKU, AB CALGARY, AB BATTLEFORD, SK										
ENGINEERING: BATTLEFORD					FABRICATION: BATTLEFORD					
PROJECT ENG. APPROVAL & DATE:										
CHECKED BY & DATE:										
DRAWN BY M. DUNBAR & DATE: DECEMBER 10, 2001										
					NO.	DATE	REVISION	BY	CHK'D	
TOLERANCES: 770-1					DESCRIPTION: HEATER BUILDING DETAIL HUSKY OIL c/o BDR ENG. 12'-0" O.D. x 20'-0" HIGH (PRIMARY) 400 BBL DOUBLE WALL TANK TAG# T-710					
CRN # / NATL BD # N/A					SCALE: N.T.S.					REV.
PURCHASE ORDER # N/A					DRAWING NUMBER D-01-361-S2-12					0

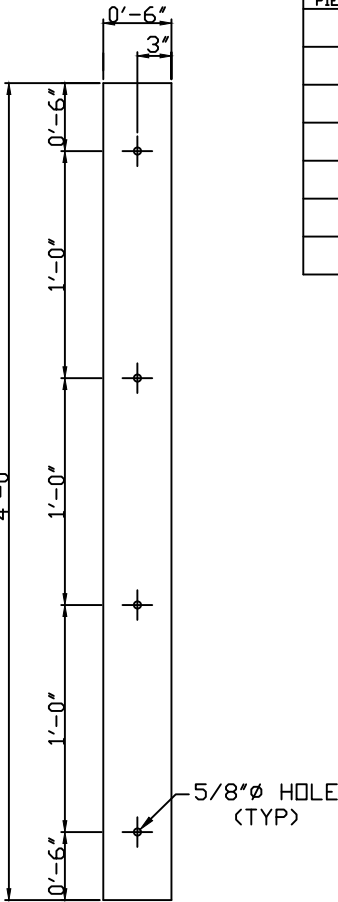
BILL OF MATERIAL QUANTITIES SHOWN ARE FOR (01) TANK, (01) REQ'D										
MARK	SHIP	PIECE	TOTAL	DESCRIPTION	SPECIFICATION	WEIGHT	MAT'L	PURCHASING		
SHIPPING	ASS'Y		QTY.			(LBS)	CODE	SUPPLIER & P.O.#	ITEM	MISC.
	13-A		1	HEATER BUILDING		(3)				
		1	4	3"OPEN WIDTH x 1/8"THK PIAND	C.S.	1	D			
				HINGE x 4"LG (NO HOLES)						
		2	1	3/8"Ø ROUND BAR x SKETCH	C.S.	1	D			
		3	1	BARREL BOLT SERIAL# 558X-V	C.S.	1	D			



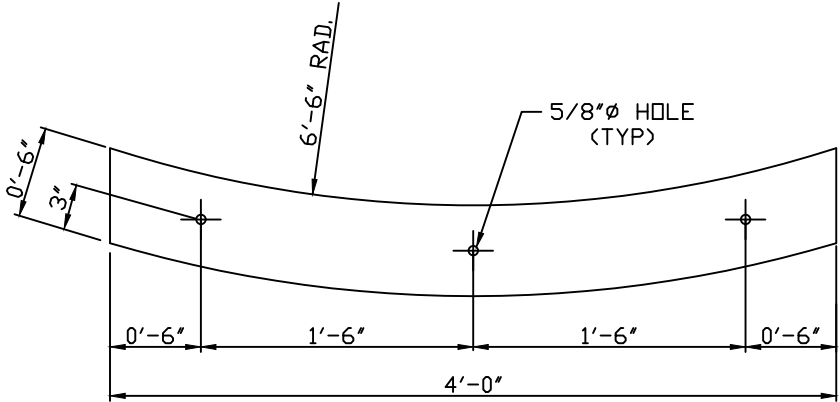
FRONT VIEW



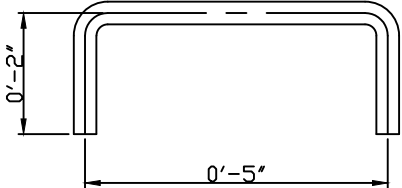
PC. 12-4 DETAIL



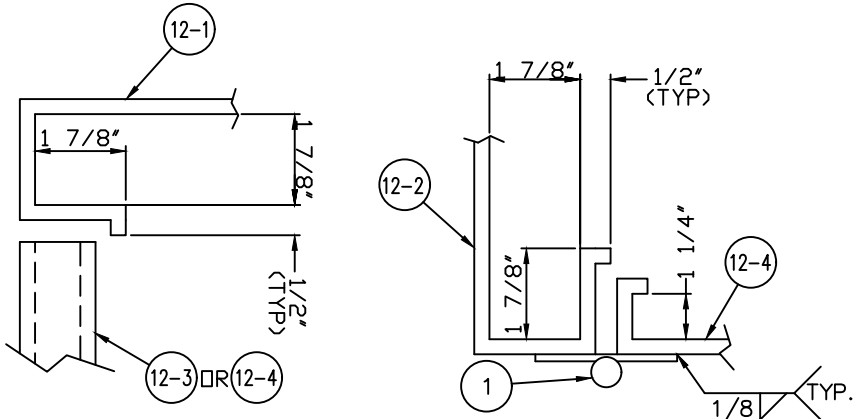
PC. 12-6 DETAIL



PC. 12-7 DETAIL

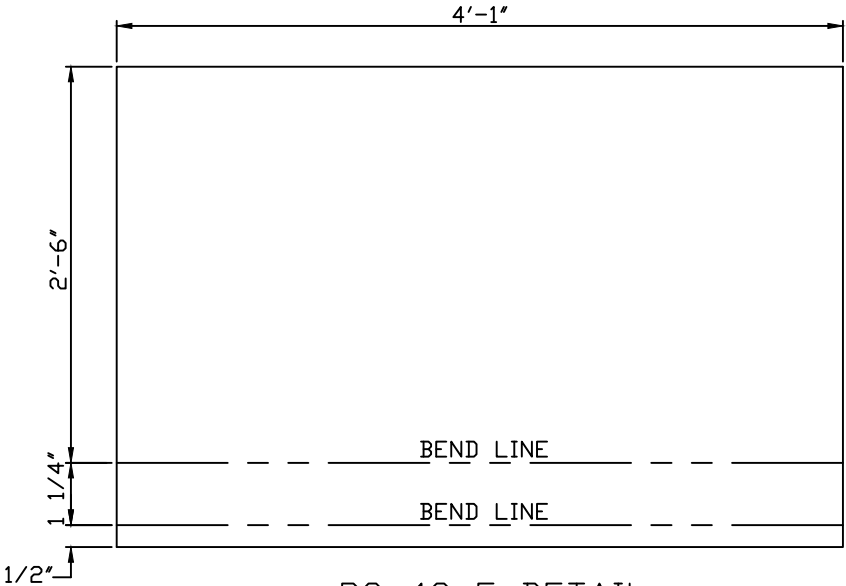


PC 2 DETAIL



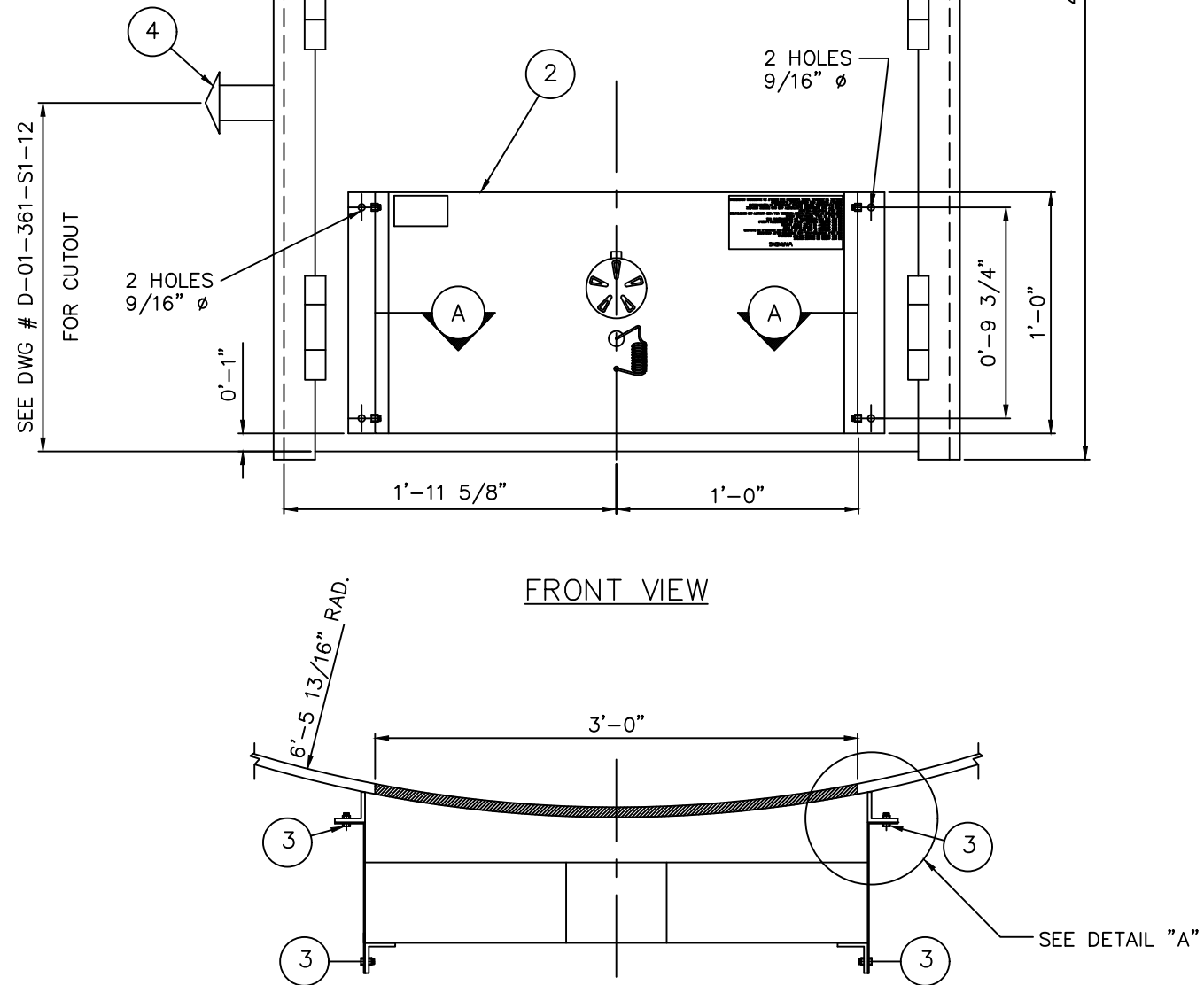
DETAIL "D"

DETAIL "C"



PC. 12-5 DETAIL

 G.L.M. Tanks & Equipment Ltd. NISKU, AB CALGARY, AB BATTLEFORD, SK															
ENGINEERING: BATTLEFORD		FABRICATION: BATTLEFORD													
PROJECT ENG. APPROVAL & DATE:		<table> <tr><td></td><td></td><td></td><td></td></tr> <tr><td></td><td></td><td></td><td></td></tr> <tr><td></td><td></td><td></td><td></td></tr> </table>													
CHECKED BY & DATE:															
DRAWN BY M. DUNBAR & DATE: DECEMBER 10, 2001															
TOLERANCES: 770-1		NO.	DATE												
		REVISION	BY/CHK'D												
		DESCRIPTION: HEATER BUILDING DETAIL HUSKY OIL c/o BDR ENG 12'-0" O.D. x 20'-0" HIGH (PRIMARY) 400 BBL DOUBLE WALL TANK TAG# T-710													
CRN # / NATL BD #		SCALE: N.T.S.													
PURCHASE ORDER #		DRAWING NUMBER													
		REV. 0													



SECTION "A - A"



3'-0" CUTOUT

☉ HEATER BUILDING

1'-4" CUTOUT

T.O.B.

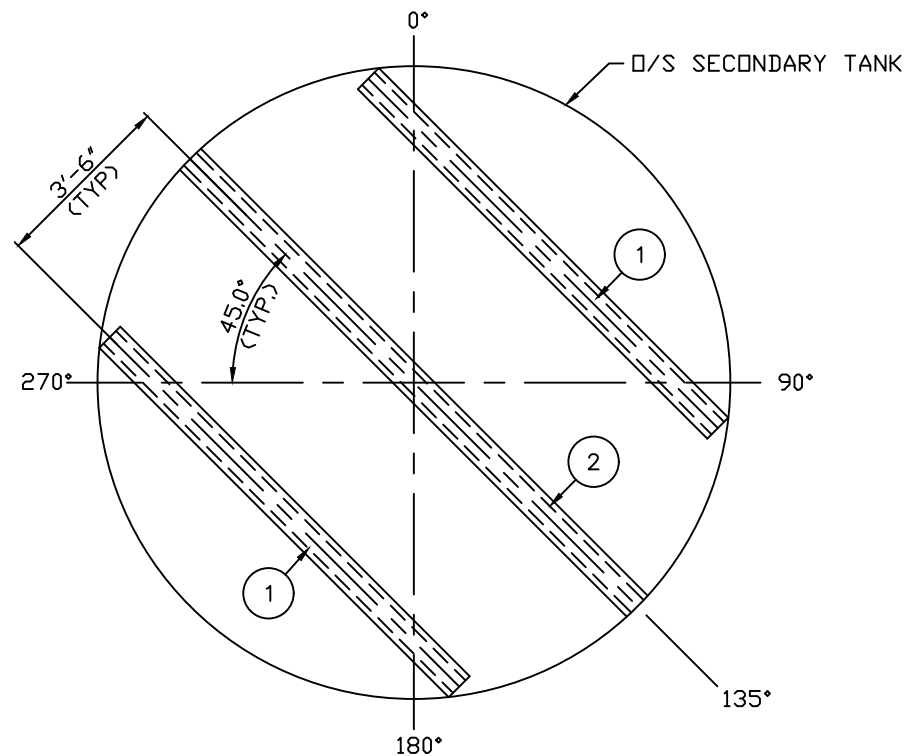
CUTOUT DETAIL
(CUT THROUGH SECONDARY SHELL ONLY)

		G.L.M. Tanks & Equipment Ltd. NISKU, AB CALGARY, AB BATTLEFORD, SK	
ENGINEERING: BATTLEFORD		FABRICATION: BATTLEFORD	
PROJECT ENG. APPROVAL & DATE:	1► 01/08/02	ADDED VENT CAP	MD
CHECKED BY & DATE:			
DRAWN BY M. DUNBAR & DATE: DECEMBER 10, 2001			
	NO.	DATE	REVISION
			BY CHK'D
TOLERANCES: 770-1	DESCRIPTION: HEATER BUILDING DETAIL HUSKY OIL c/o BDR ENG. 12'-0" O.D. x 20'-0" HIGH (PRIMARY) 400 BBL DOUBLE WALL TANK TAG# T-710		
CRN # / NATL BD # N/A	SCALE: N.T.S.		REV.
PURCHASE ORDER # N/A	DRAWING NUMBER D-01-361-S2-14		1

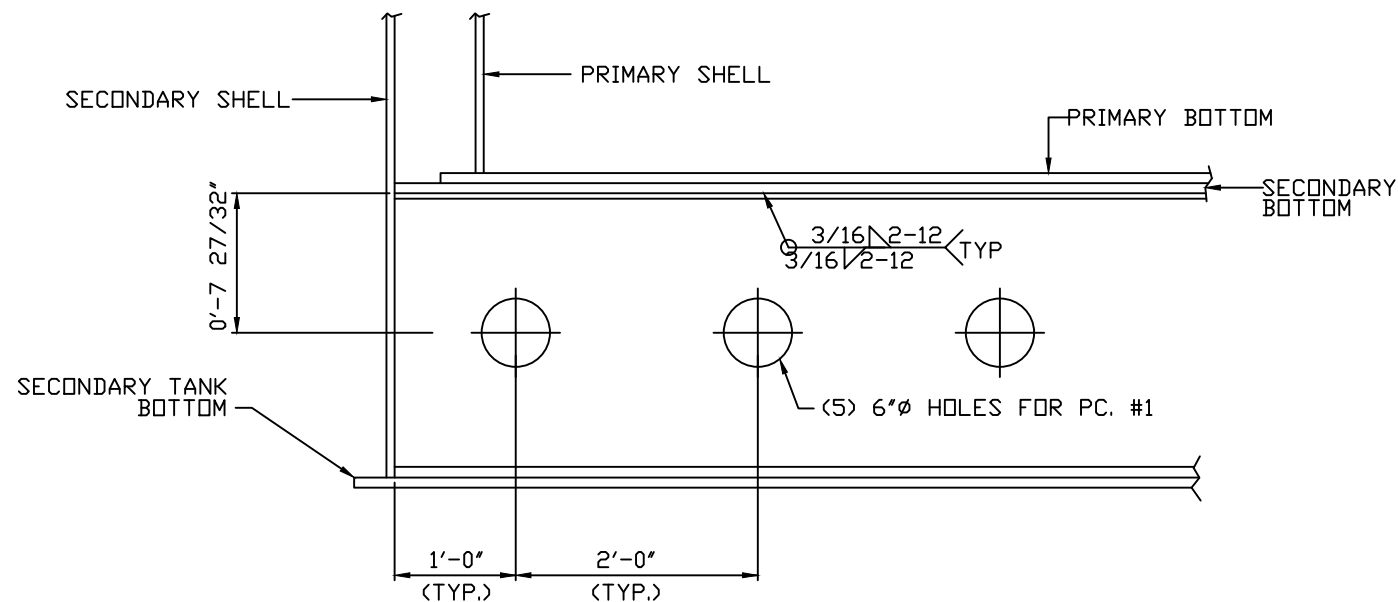


		G.L.M. Tanks & Equipment Ltd.			
NISKU, AB		CALGARY, AB		BATTLEFORD, SK	
ENGINEERING: BATTLEFORD		FABRICATION: BATTLEFORD			
PROJECT ENG. APPROVAL & DATE:					
CHECKED BY & DATE:					
DRAWN BY M. DUNBAR & DATE: DECEMBER 10, 2001					
		NO.	DATE	REVISION	BY CHK'D
TOLERANCES: 770-1		DESCRIPTION: BASE SKID DETAIL HUSKY OIL c/o BDR ENG. 12'-0" O.D. x 20'-0" HIGH (PRIMARY) 400 BBL DOUBLE WALL TANK TAG# -710			
CRN # / NATL BD # N/A		SCALE: N.T.S.			REV. 0
PURCHASE ORDER # N/A		DRAWING NUMBER D-01-361-S2-15			

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FLOOR BEAMS LAYOUT



TYP. FLOOR SUPPORT BEAMS CONNECTION

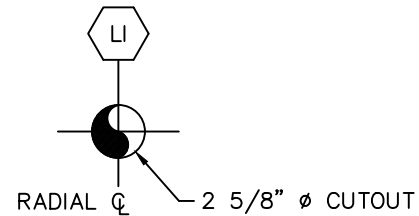
BILL OF MATERIAL QUANTITIES SHOWN ARE FOR (01) TANK, (01) REQ'D										
SHIPPING PIECE	MARK SHOP ASS'Y	PIECE	TOTAL QTY.	DESCRIPTION	SPECIFICATION	WEIGHT (LBS)	MAT'L CODE	PURCHASING		
								SUPPLIER & P.O.#	ITEM	MISC.
	16-A		2	FLOOR TRUSS ASS'Y		(888)				
		1	2	W16 @ 26#/FT WIDE FLANGE x	G40.21-44W	551	D			
				10'-7 3/16' LG						
		2	1	W16 @ 26#/FT WIDE FLANGE x	G40.21-44W	337	D			
				12'-11 5/8' LG						



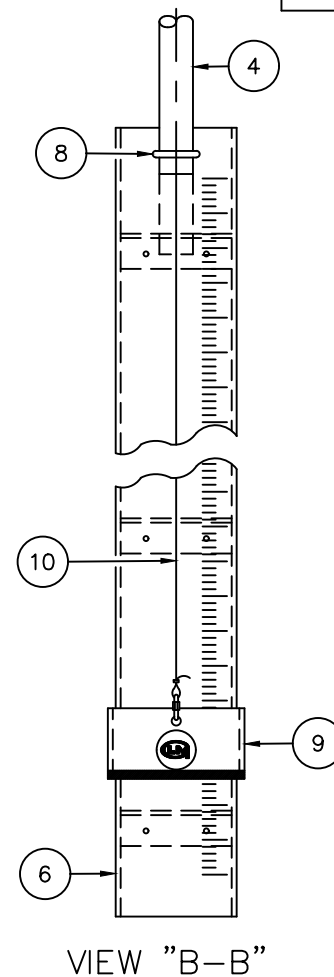
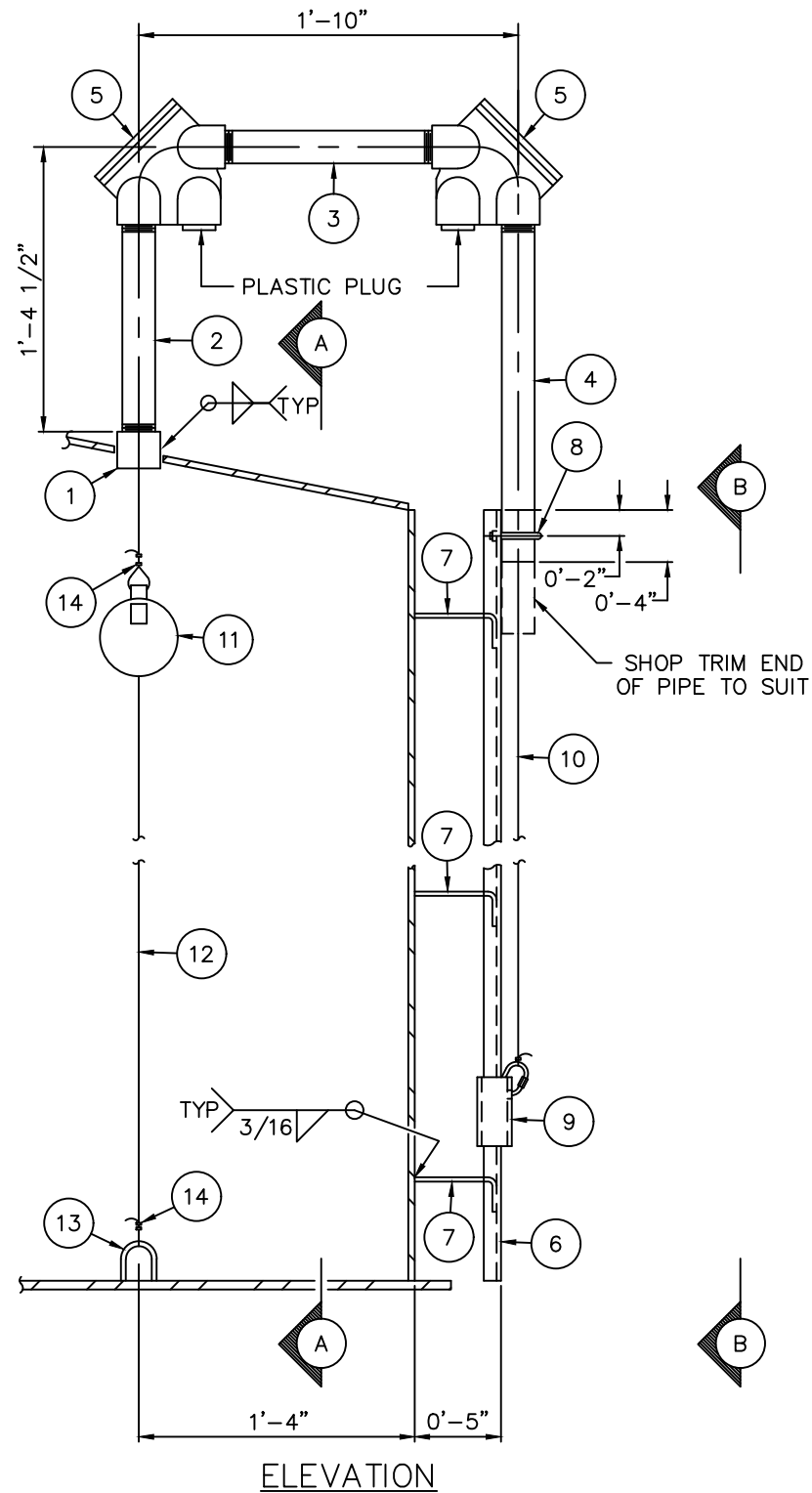
G.L.M. Tanks & Equipment Ltd.
NISKU, AB CALGARY, AB BATTLEFORD, SK

ENGINEERING: BATTLEFORD		FABRICATION: BATTLEFORD				
PROJECT ENG. APPROVAL & DATE:		NO.	DATE	REVISION	BY	CHK'D
CHECKED BY & DATE:						
DRAWN BY M. DUNBAR & DATE: DECEMBER 10, 2001						
TOLERANCES: 770-1		DESCRIPTION: FLOOR SUPPORT BEAMS DETAIL HUSKY OIL c/o BDR ENG. 12'-0" O.D. x 20'-0" HIGH (PRIMARY) 400 BBL DOUBLE WALL TANK TAG# T-710				
CRN # / NATL BD # N/A		SCALE: N.T.S.				REV.
PURCHASE ORDER # N/A		DRAWING NUMBER D-01-361-S2-16				0

1. REFER TO DWG. No.'s BOARD-1 & BOARD-2 FOR DETAILS OF GAUGEBOARD & BRACKETS.

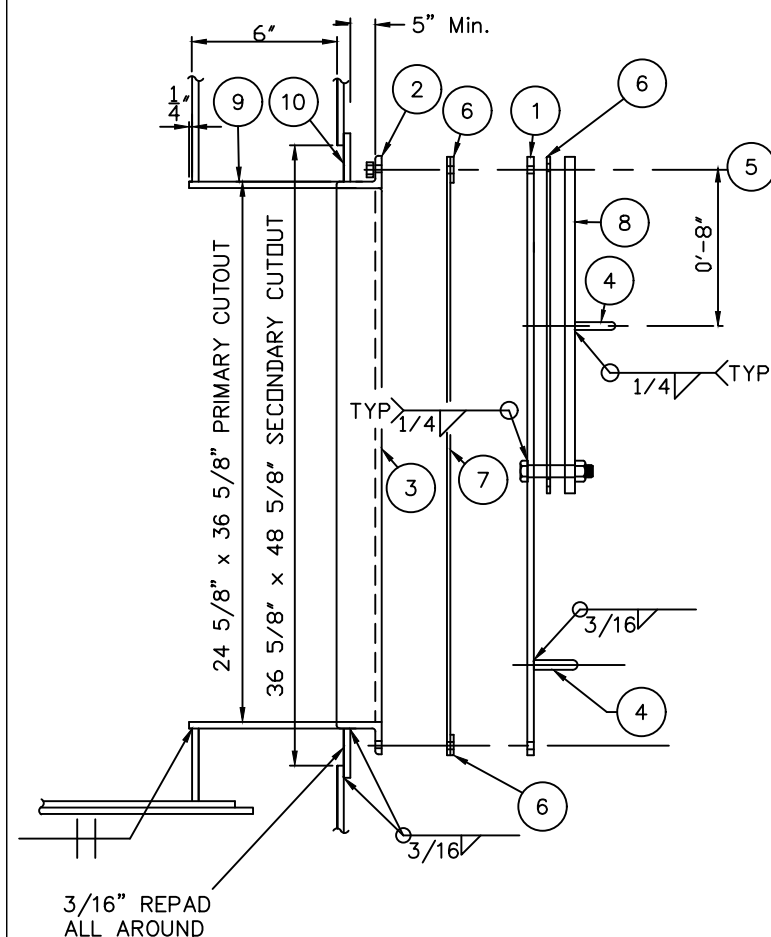


PC. #13 DETAIL

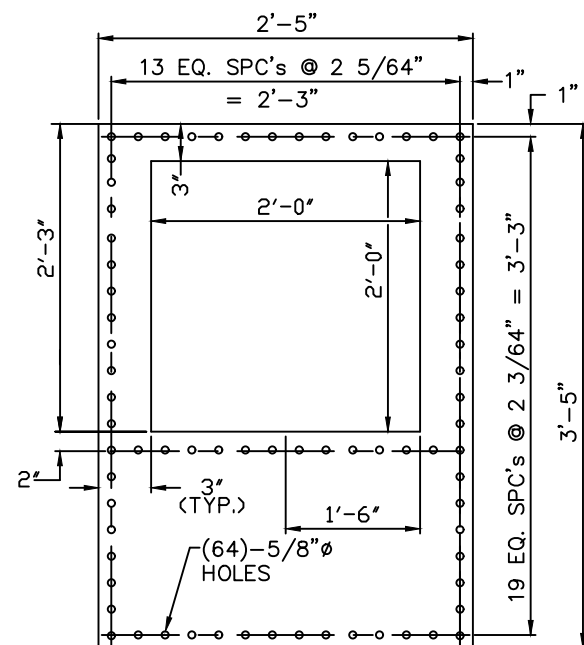
[illegible]

48 # = TOTAL WEIGHT (EXCLUDING
GAUGE BOARD & BRACKETS)

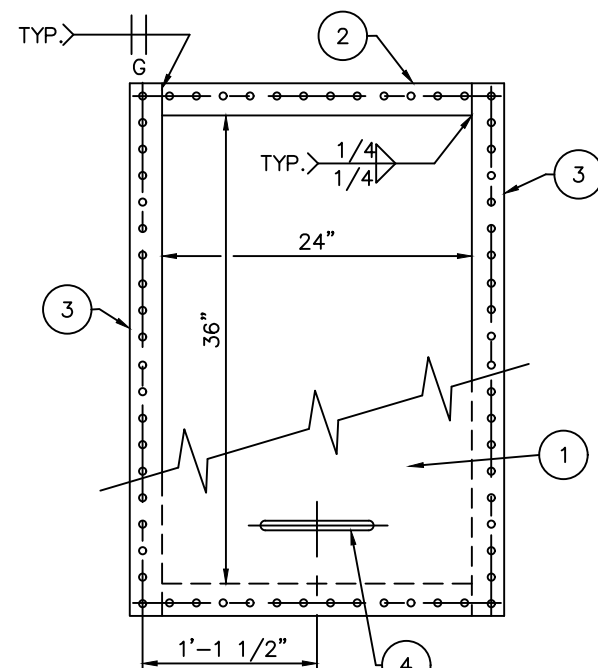
		G.L.M. Tanks & Equipment Ltd. NISKU, AB CALGARY, AB BATTLEFORD, SK				
ENGINEERING: BATTLEFORD		FABRICATION: BATTLEFORD				
PROJECT ENG. APPROVAL & DATE:		NO.	DATE	REVISION	BY	CHK'D
CHECKED BY & DATE:						
DRAWN BY M. DUNBAR & DATE: DECEMBER 10, 2001						
TOLERANCES: 770-1		DESCRIPTION: CLOSED TYPE LEVEL INDICATOR DETAIL HUSKY OIL c/o BDR ENG. 12'-0" O.D. x 20'-0" HIGH (PRIMARY) 400 BBL DOUBLE WALL TANK TAG# T-710				
CRN # / NATL BD # N/A		SCALE: N.T.S.				REV. 0
PURCHASE ORDER # N/A		DRAWING NUMBER D-01-361-S2-17				



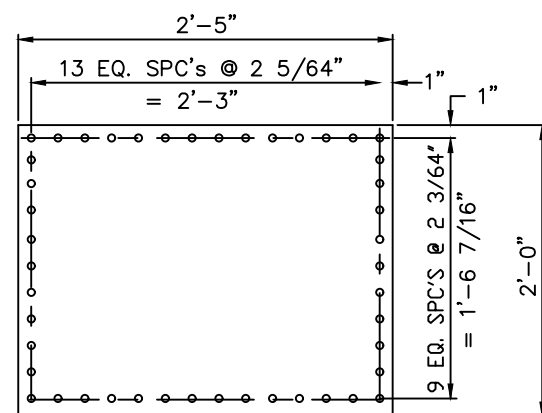
MANWAY ASSEMBLY



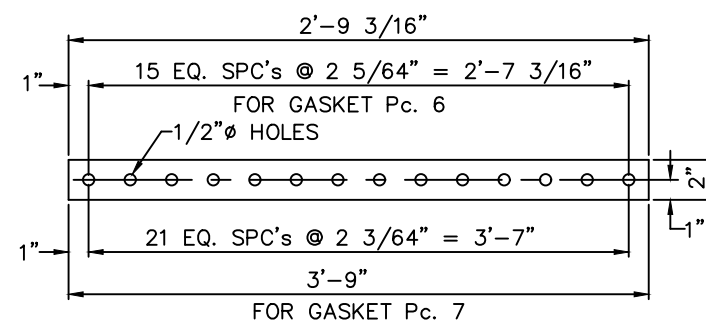
PC. #1 DETAIL



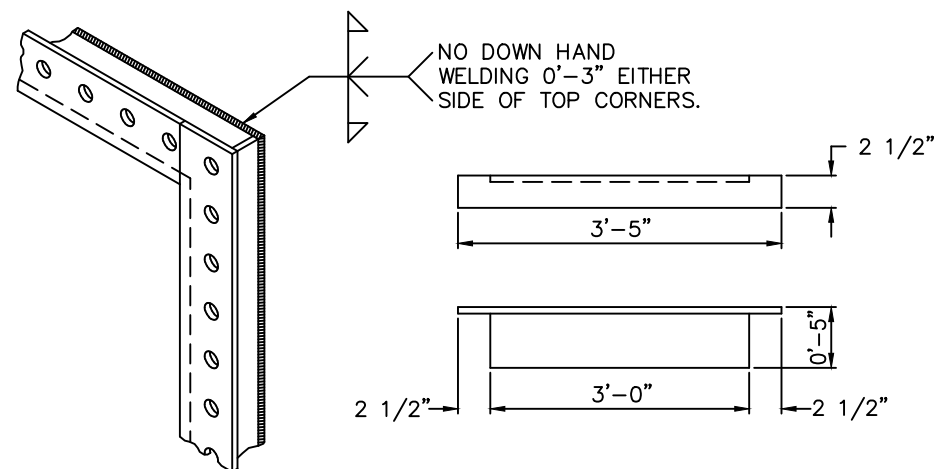
ELEVATION



PC. #8 DETAIL

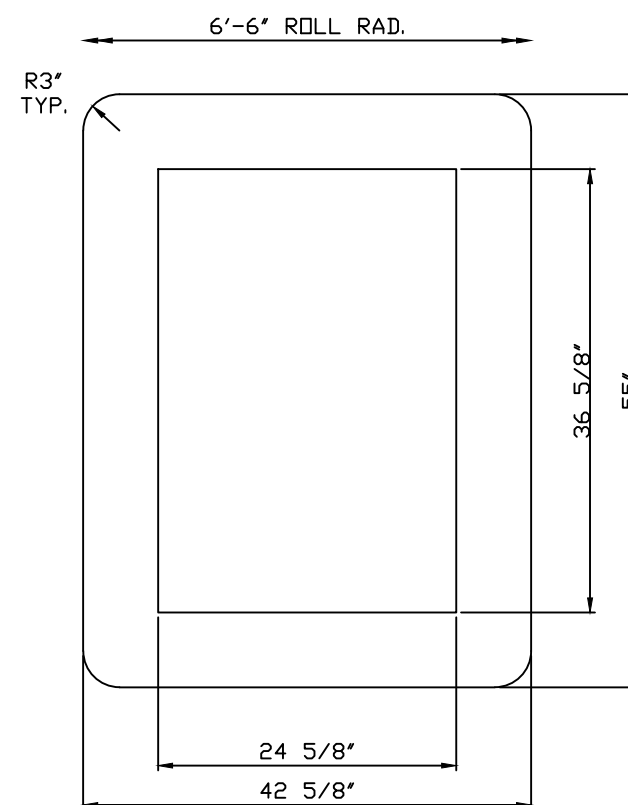


PC. #6 & #7 DETAIL

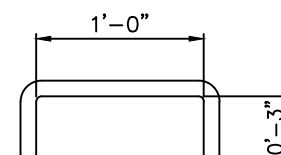


DETAIL 'A'

PC. #3 DETAIL



PC. #10 DETAIL



PC. #4 DETAIL

WT.	GLM MARK	QTY	SIZE	DESCRIPTION
109#	1	1	1/4"	PLATE x 2'-5" WIDE x 3'-5" LONG (SEE NOTE #5)
26#	2	2	1/4"	PLATE x 0'-7 1/2" WIDE x 2'-0" LONG (SEE NOTE #5) (SHOP TO BREAK INTO 2 1/2" x 5" ANGLE)
57#	3	2	1/4"	PLATE x SKETCH (SEE NOTE #5)
4#	4	2	5/8"	SQUARE BAR x 1'-6 1/2" LONG x SKETCH (G40.21-44W)
10#	5	64	1/2"	Ø HEX HD BOLTS x 1 1/2" LG c/w HEX NUTS (PLATED)
-	6	6	1/8"	NEOPRENE GASKET x SKETCH
-	7	2	1/8"	NEOPRENE GASKET x SKETCH
	8	1	1/4"	PLATE x SKETCH (SEE NOTE #5)
58#	9	1	1/4"	PLATE x 0'-6 1/4" WIDE x 10'-2 1/2" LONG (SEE NOTE #5)
56#	10	1	3/16"	PLATE x SKETCH (SEE NOTE #5)

TOTAL WEIGHT = 320#

NOTES:

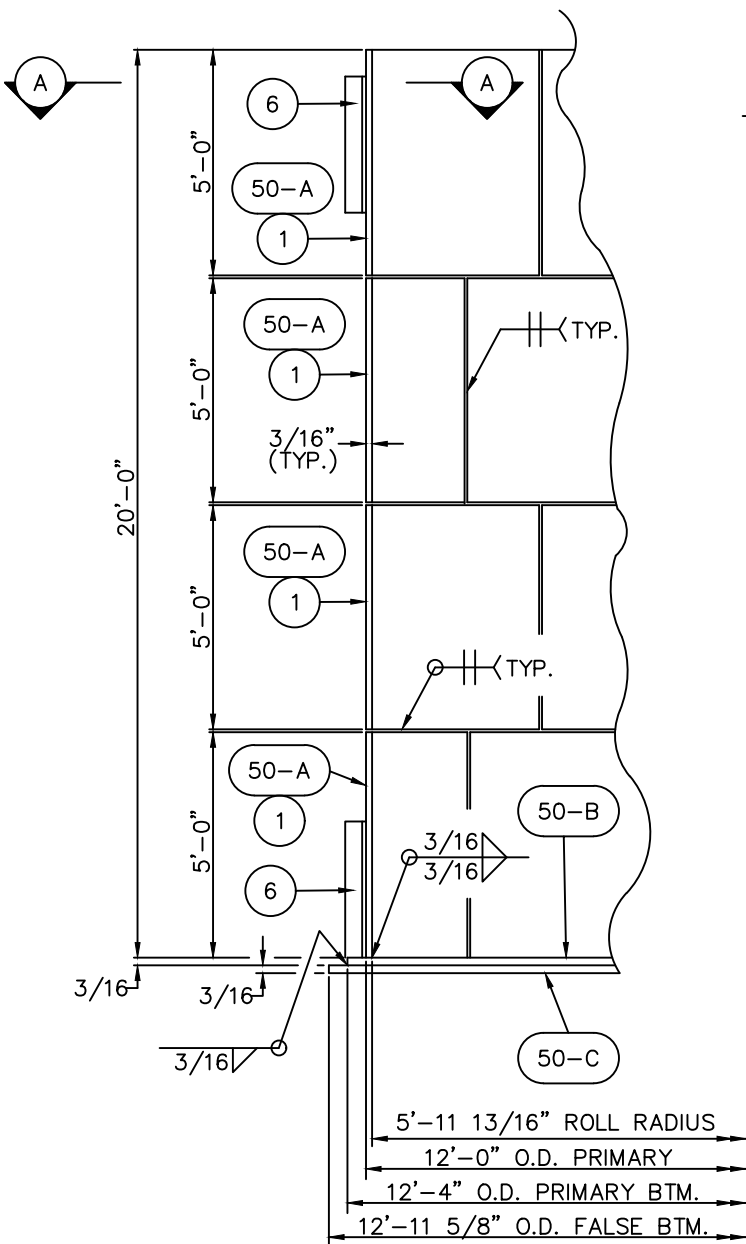
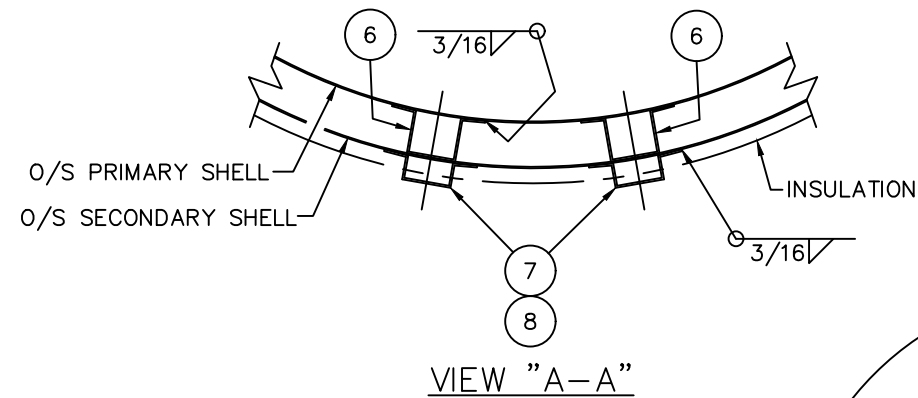
1. ASSEMBLE AND WELD Pc.'S 2 & 3 PRIOR TO LOCATING AND PUNCHING HOLES.
2. GRIND ALL SHARP EDGES AND BURRS.
3. SHOP TO INSURE THAT BOLTING FLANGES ARE FLAT AFTER WELDING AND PUNCHING.
4. LOCATE BOLT HOLES IN PIECES #2 & #3 IN THE SAME LOCATIONS AS IN PIECE #1.
5. MANWAY IS TO BE FABRICATED FROM THE SAME MATERIAL AS THE TANK IT IS BEING PUT IN.
6. SEE ENGINEERING FOR TANK SIZE MANWAY RESTRICTIONS.
7. DETAILS ARE SHOWN FOR (01) TANK



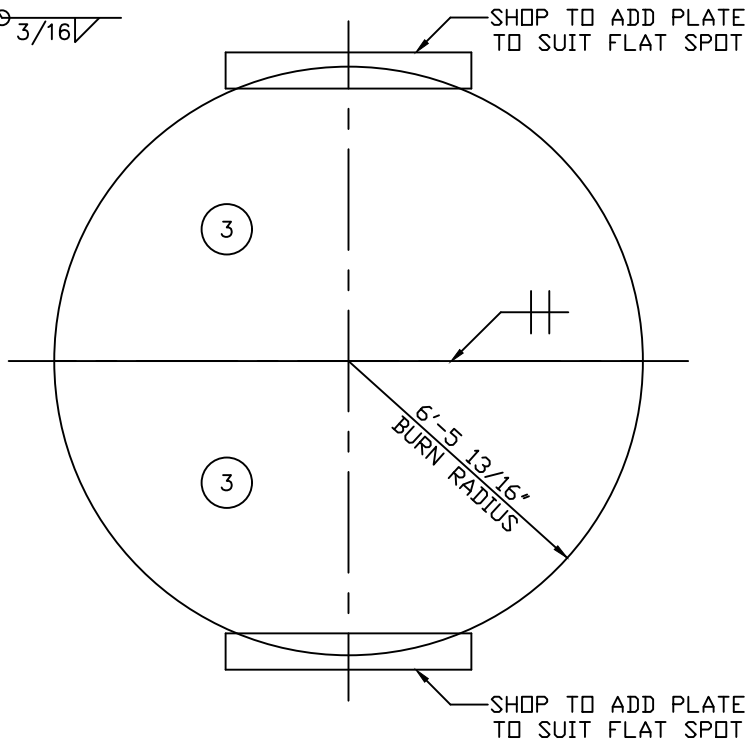
G.L.M. Tanks & Equipment Ltd.
NISKU, AB CALGARY, AB BATTLEFORD, SK

ENGINEERING: BATTLEFORD	FABRICATION: BATTLEFORD
PROJECT ENG. APPROVAL & DATE:	12/18/01 REV'D REPAD & PROJECTION BD
CHECKED BY & DATE:	
DRAWN BY B. DUPUIS & DATE: DECEMBER 17, 2001	
TOLERANCES: 770-1	DESCRIPTION: MANWAY DETAIL HUSKY OIL c/o BDR ENG. 12'-0" O.D. x 20'-0" HIGH (PRIMARY) 400 BBL DOUBLE WALL TANK
CRN # / NATL BD # N/A	TAG# T-710
PURCHASE ORDER # N/A	SCALE: N.T.S.
	DRAWING NUMBER D-01-361-S2-19
	REV. 1

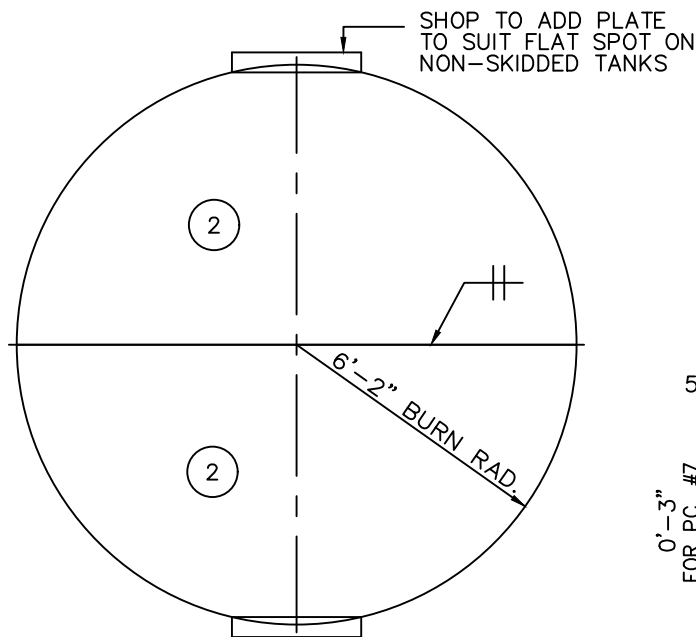




ELEVATION



FALSE BOTTOM LAYOUT

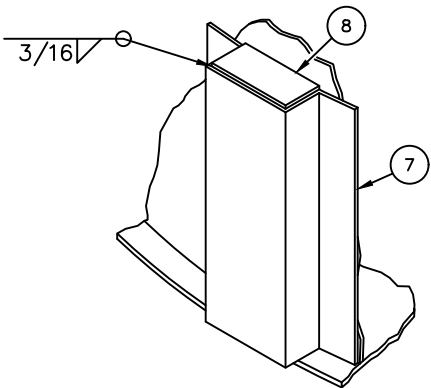


PRIMARY BOTTOM LAYOUT

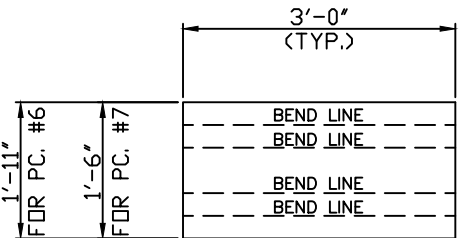
BILL OF MATERIAL QUANTITIES SHOWN ARE FOR (01) TANK, (01) REQ'D									
MARK	SHIPPING	SHOP	TOTAL	DESCRIPTION	SPECIFICATION	WEIGHT	MAT'L	PURCHASING	
PIECE	PIECE	ASS'Y	QTY.			(LBS)	CODE	SUPPLIER & P.O.#	ITEM MISC.
50-A			1	PRIMARY SHELL ASSEMBLY		(6009)			
			1	4 3/16" PL. x 60" WD x 37'-7 13/16" LG	A-36 DR EQ.	5761	D		
			6	4 3/16" PL. x SKETCH	A-36 DR EQ.	176	D		
			7	2 3/16" PL. x SKETCH	A-36 DR EQ.	69	D		
			8	2 1/4" PL. x 0'-3" WD x 0'-6" LG	A-36 DR EQ.	3	D		
50-B			1	PRIMARY BOTTOM ASSEMBLY		(1219)			
			2	2 3/16" PL. x SKETCH	A-36 DR EQ.	1219	D		
50-C			1	FALSE BOTTOM ASSEMBLY		(1347)			
			3	2 3/16" PL. x SKETCH	A-36 DR EQ.	1347	D		

NOTE:

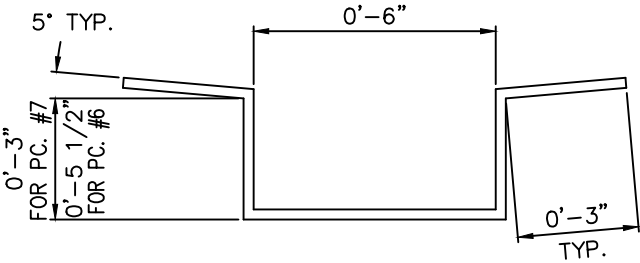
ORDER MATERIAL:
PRIMARY BOTTOM - 3/16" PL. x 72" WIDE x 312" LG. (MAKES (2) HALVES)
FALSE BOTTOM - 3/16" PL. x 72" WIDE x 312" LG. (MAKES (2) HALVES)
PRIMARY SHELL - 3/16" PL. x 60" WIDE x 453" LG. (4 REQUIRED)



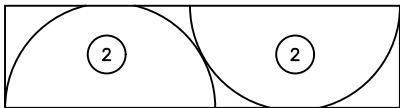
INSULATION STANDOFF DETAIL



PC. #6 & #7 DETAIL
(BEFORE FORMING)

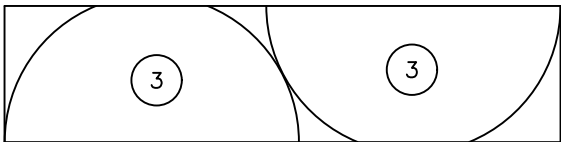


PC. #6 & #7 DETAIL
(AFTER FORMING)



PRIMARY BOTTOM PLATE LAYOUT

3/16" PL x 72" WD.x 23'-4" LG.
(1) REQUIRED
-CUT (2) Pc #2's



FALSE BOTTOM PLATE LAYOUT

3/16" PL. x 72" WD. x 24'-8" LG.
(1) REQUIRED
-CUT (2) PC. #3'S



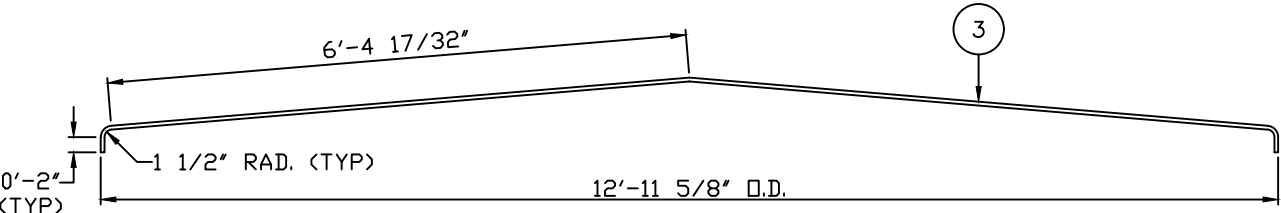
G.L.M. Tanks & Equipment Ltd.
NISKU, AB CALGARY, AB BATTLEFORD, SK

ENGINEERING: BATTLEFORD	FABRICATION: BATTLEFORD
PROJECT ENG. APPROVAL & DATE:	
CHECKED BY & DATE:	
DRAWN BY DECEMBER 10, 2001 & DATE: M. DUMBAR	
TOLERANCES: 770-1	DESCRIPTION: PRIMARY SHELL DETAIL HUSKY OIL c/o BDR ENG. 12'-0" O.D. x 20'-0" HIGH (PRIMARY) 400 BBL DOUBLE WALL TANK
CRN # / NATL BD # N/A	TAG# T-710
PURCHASE ORDER # N/A	SCALE: N.T.S.
	DRAWING NUMBER D-01-361-S2-50
	REV. 0

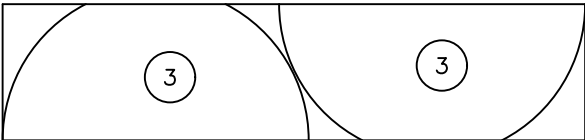
BILL OF MATERIAL QUANTITIES SHOWN ARE FOR (01) TANK, (01) REQ'D											
MARK			TOTAL QTY.	DESCRIPTION	SPECIFICATION	WEIGHT (LBS)	MAT'L CODE	PURCHASING			
SHIPPING PIECE	SHOP ASS'Y	PIECE						SUPPLIER & P.O.#	ITEM	MISC.	
	51-A		1	SECONDARY SHELL ASS'Y		(6553)					
		1	1	3/16" PL. x 72" WD x 40'-9 1/2' LG	A-36 DR EQ.	1872	D				
		2	3	3/16" PL. x 60" WD x 40'-9 1/2' LG	A-36 DR EQ.	4681	D				
	51-B		1	SECONDARY ROOF ASS'Y		(1192)					
		3	2	3/16" PL. x SKETCH	A-36 DR EQ.	1192	D				
	51-C		1	SECONDARY BOTTOM ASS'Y		(1068)					
		6	1	3/16" PL. x SKETCH	A-36 DR EQ.	1068	D				

NOTE:

ORDER MATERIAL:
SECONDARY BOTTOM – 3/16" PL. x 72" WIDE x 312" LG. (MAKES (2) HALVES)
ROOF – 3/16" PL. x 72" WIDE x 312" LG. (MAKES (2) HALVES)
SECONDARY SHELL – 3/16" PL. x 72" WIDE x 492" LG. (1 REQUIRED)
– 3/16" PL. x 60" WIDE x 492" LG. (3 REQUIRED)



ROOF LAYOUT (AFTER FORMING)



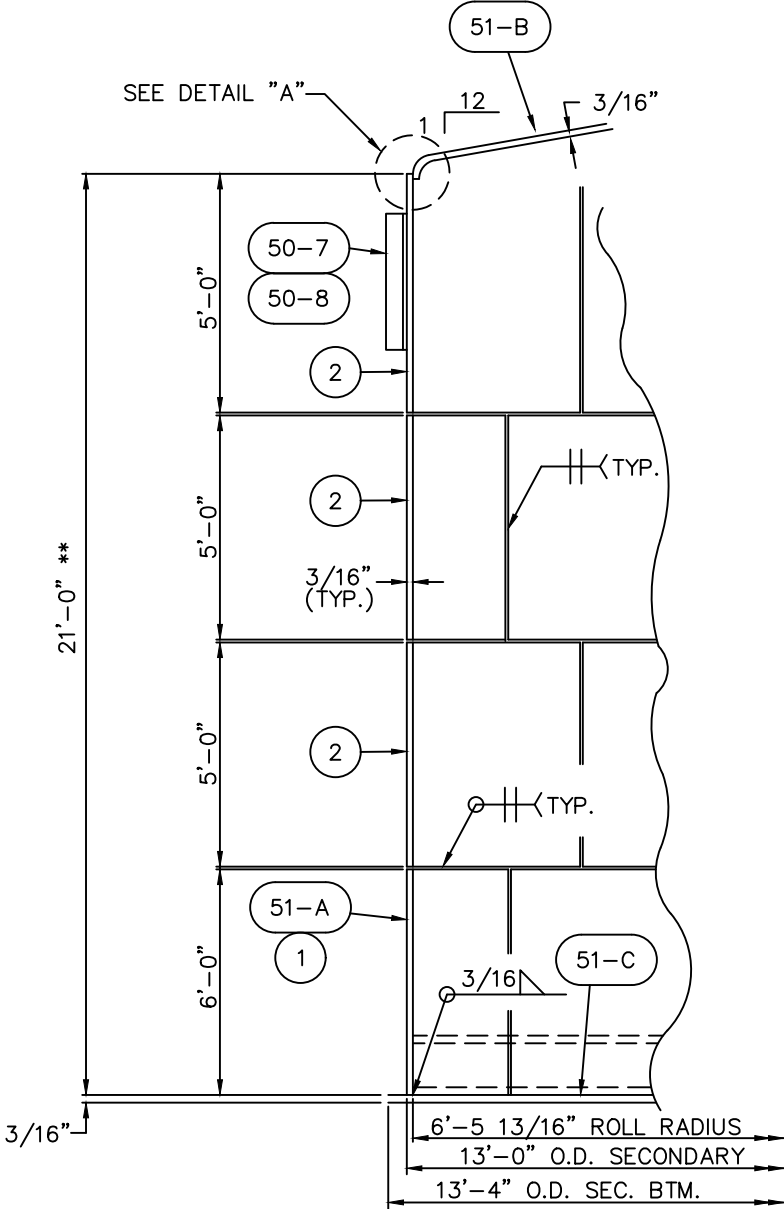
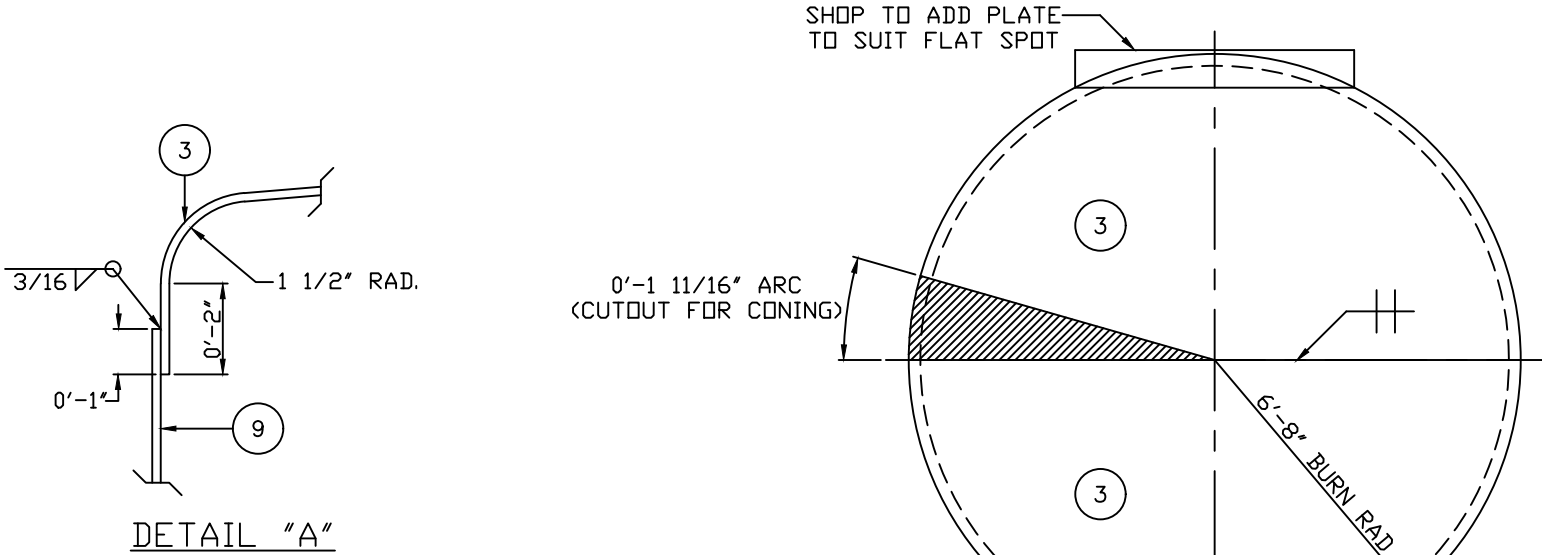
ROOF PLATE LAYOUT

3/16" PL. x 72" WD. x 26'-0" LG.
(1) REQUIRED
-CUT (2) PC. #3'S



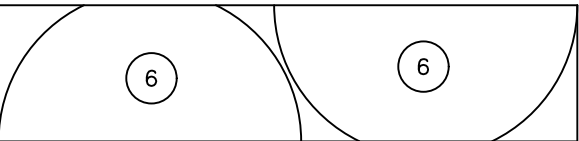
G.L.M. Tanks & Equipment Ltd.
NISKU, AB CALGARY, AB BATTLEFORD, SK

ENGINEERING: BATTLEFDR		FABRICATION: BATTLEFDR			
PROJECT ENG. APPROVAL & DATE:					
CHECKED BY & DATE:					
DRAWN BY M. DUNBAR & DATE: DECEMBER 10, 2001					
TOLERANCES: 770-1		NO.	DATE	REVISION	BY CHK'D
		DESCRIPTION: SECONDARY SHELL DETAIL HUSKY OIL c/o BDR ENG. 12'-0" O.D. x 20'-0" HIGH (PRIMARY) 400 BBL DOUBLE WALL TANK			
		TAG# T-710			
CRN # / NATL BD # N/A		SCALE: N.T.S.			REV.
PURCHASE ORDER # N/A		DRAWING NUMBER D-01-361-S2-51			0



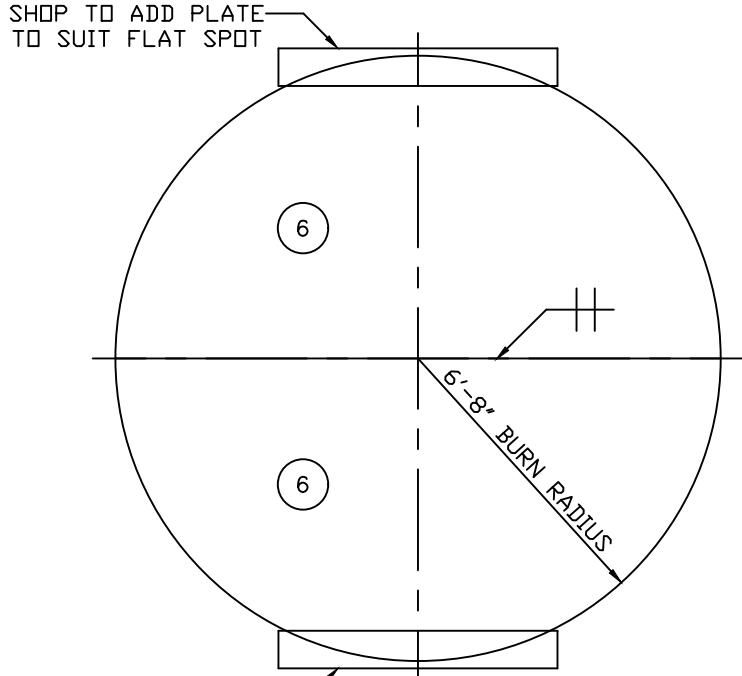
ELEVATION

** TRIM PRIMARY SHELL TO SUIT



BOTTOM PLATE LAYOUT

3/16" PL. x 72" WD. x 25'-6" LG.
(1) REQUIRED
-CUT (2) PC. #4'S



BOTTOM LAYOUT

0'-7 1/2"

1/4" (TYP.)

1/4" (TYP.)

9/64" Ø HOLES TYPICAL (4)

G.L.M. TANKS & EQUIPMENT LTD.

LM

NISKU, ALBERTA

BATTLEFORD, SASK.

API *** ED. APP.

SERIAL No. D-01-361-S2

YEAR BUILT 2001

NOM DIA 12.0 (P) FT.

NOM CAP 400 BBL

NOM HT 20.0 (P) FT.

SHELL THK 3/16 IN.

BTM THK 3/16 (P) IN.

SHELL MATL A-36 OR EQ.

DECK THK 3/16 IN.

BTM TYPE FLAT

S.G. 1.0

D.P. 16 OZ

D.M.T. N/A °F

S.R. NO

D.L.L. 20.0 FT.

EQUIP No T-710

SERVICE PRIMARY DOUBLE WALL TANK

*** G.L.M. INTERNAL PROCEDURE 770-1

0'-5 3/8"

PIECE #1 G.L.M. NAMEPLATE DETAIL

1'-4 1/2"

9/16"

0'-4"

3/4"

0'-7"

3/4"

0'-4"

0'-6"

0'-4 7/8"

BEND LINE

BEND LINE

9/64" Ø HOLES (4 TYP.)

PIECE #3 NAMEPLATE BRACKET BEFORE FORMING

BILL OF MATERIAL QUANTITIES SHOWN ARE FOR (01) TANK, (01) REQ'D										
MARK	SHIPPING	SHOP	PIECE	TOTAL	DESCRIPTION	SPECIFICATION	WEIGHT	MAT'L	PURCHASING	
ASS'Y	PIECE	QTY.					(LBS)	CODE	SUPPLIER & P.O.#	ITEM
NP-A		1			NAMEPLATE & BRACKET		(4)			MISC.
		1	1		11Ga. PLATE x SKETCH	MFG STD	1	D		
		2	4		1/8" PDP RIVETS	MFG STD	-	D		
		3	1		3/16" PLATE x SKETCH	A-36or EQ.	3	D		

NOTES:

- 1. ALL TEXT THAT IS TO BE STAMPED ON THIS NAMEPLATE SHALL BE STAMPED IN 1/4" HIGH LETTERING.
- 2. NAMEPLATE IS TO BE INSTALLED ONLY AFTER TANK HAS BEEN SAND BLASTED AND PAINTED. (IF REQ'D)

2

1

2

3/16"

0'-4"

0'-8 1/2"

TACK

I/S HEATER BUILDING

3

PIECE #3 NAMEPLATE BRACKET AFTER FORMING

LM

G.L.M. Tanks & Equipment Ltd.

NISKU, AB CALGARY, AB BATTLEFORD, SK

ENGINEERING: BATTLEFORD

FABRICATION: BATTLEFORD

PROJECT ENG. APPROVAL & DATE:

CHECKED BY & DATE:

DRAWN BY M. DUNBAR & DATE: DECEMBER 10, 2001

TOLERANCES: 770-1

CRN # / NATL BD # N/A

PURCHASE ORDER # N/A

NO.

DATE

REVISION

BY

CHK'D

DESCRIPTION: NAMEPLATE DETAIL HUSKY OIL c/o BDR ENG. 12'-0" O.D. x 20'-0" HIGH (PRIMARY) 400 BBL DOUBLE WALL TANK

TAG# T-710

SCALE: N.T.S.

DRAWING NUMBER D-01-361-S2-NP

REV. 0

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