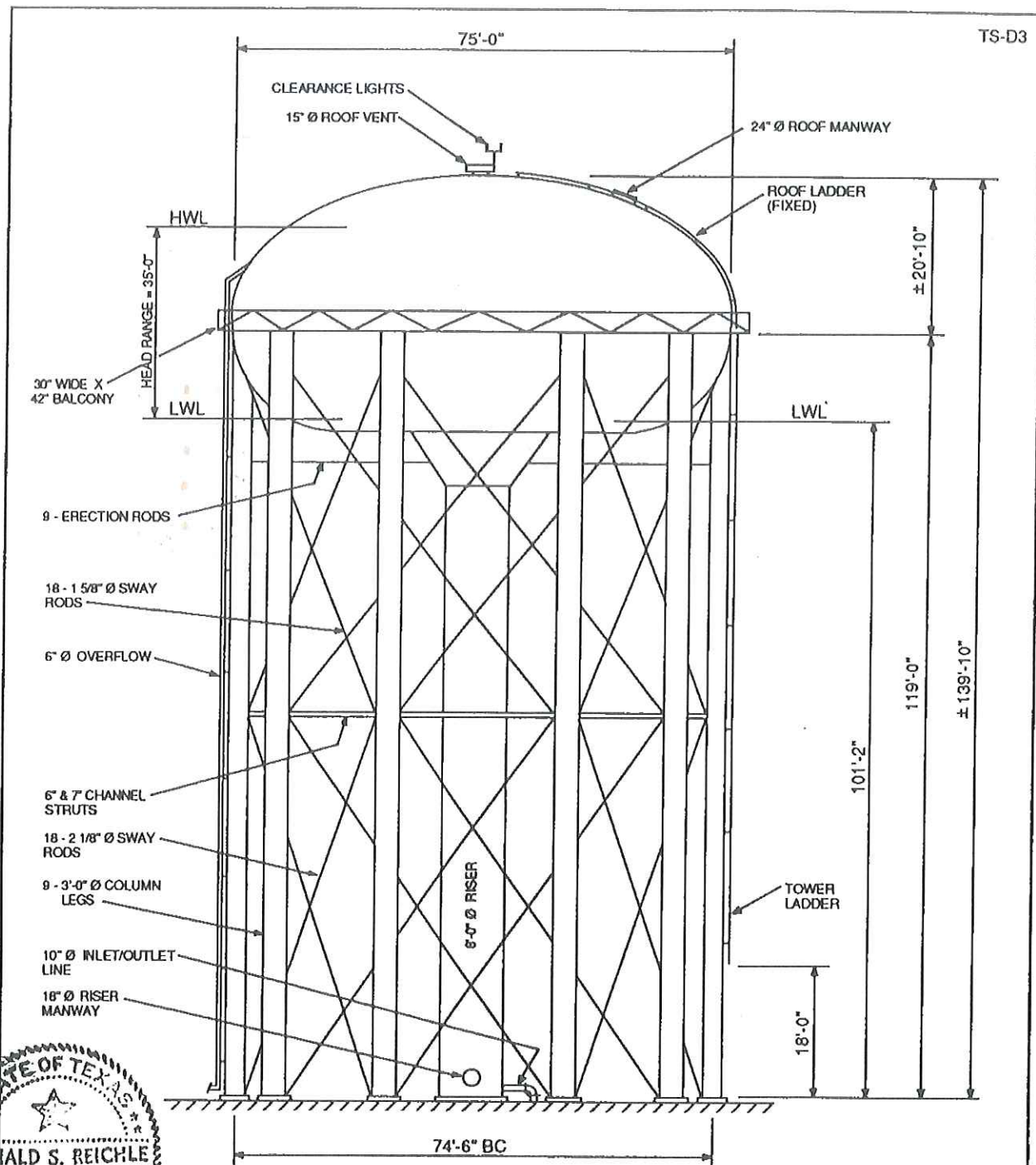


Donald S. Reichle

6-20-90

GENERAL NOTES

1. DIMENSIONS SHOWN WERE TAKEN FROM ACTUAL FIELD MEASUREMENTS OR ESTIMATED.
2. CONTRACTOR MUST VERIFY FOR HIS OWN USE.
3. NEW APPURTENANCES FOR THIS TANK ARE NOT SHOWN ON THE DRAWING.

BROWNSVILLE NAVIGATION DISTRICT

TANK A GENERAL DIMENSIONS

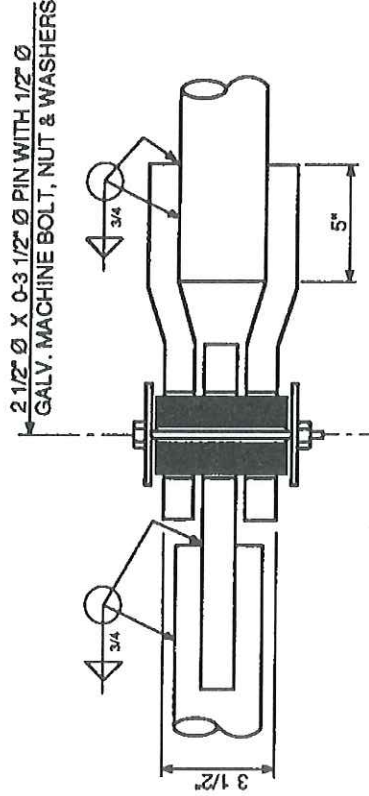
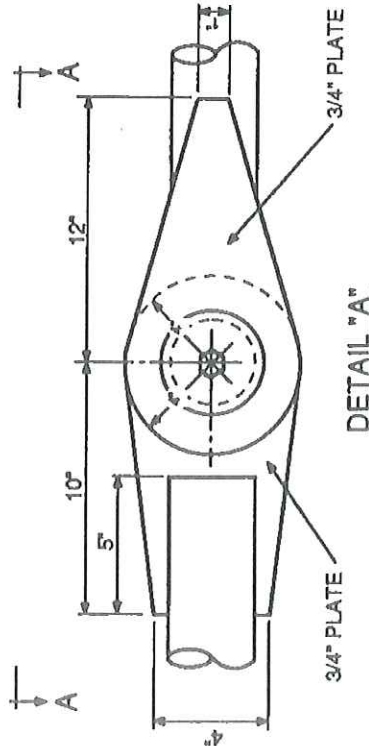
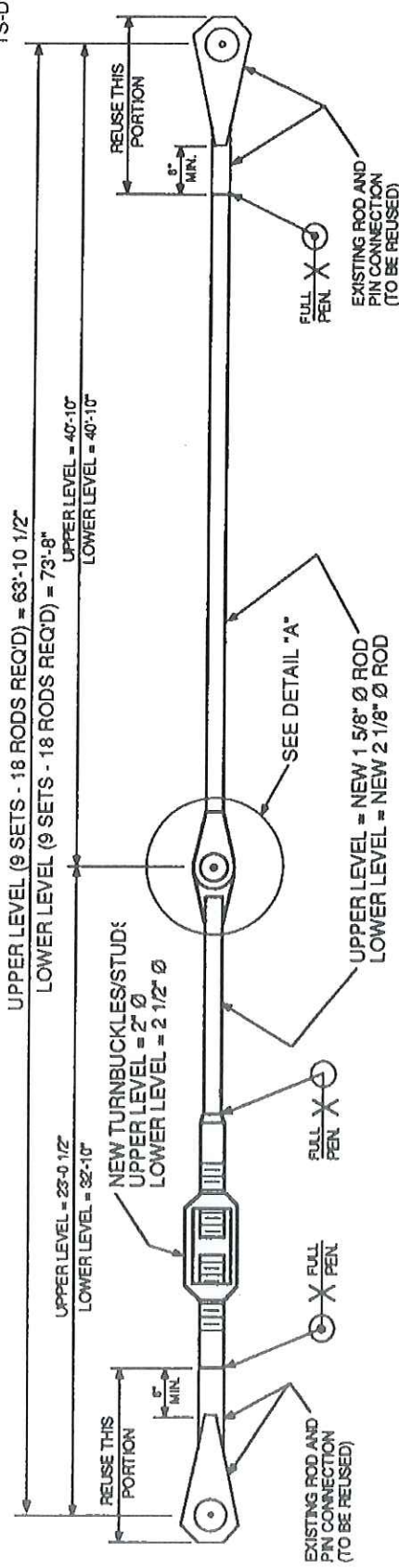
DON S. REICHLE
& ASSOCIATES
Nederland, Texas

DATE: 6/5/90

BY:RSR CK:DSR

DWG. 3463-3

TS-D5



SECTION A-A

GENERAL NOTES

1. NEW ROD TO BE COLD ROLLED CARBON STEEL.
2. REMOVE ONE SET (2 RODS) ONLY AT ONE TIME AND REPLACE THIS SET BEFORE REMOVING NEXT SET.
3. ALL DIMENSIONS SHOWN ARE APPROXIMATE. EXACT SIZES TO BE DETERMINED IN FIELD BY CONTRACTOR BEFORE FIELD FABRICATION.
4. TIGHTENING OF RODS TO BE PERFORMED WITH THE TANK EMPTY.
5. REMOVE SLACK BY TIGHTENING TURNBUCKLES AFTER ERECTION.
6. ALL GROVE WELDS MUST HAVE FULL PENETRATION.
6. GRIND ALL CORNERS, WELDS AND EDGES SMOOTH.

SPECIAL NOTES

1. THE 18 RODS IN THE UPPER LEVEL ARE PART OF THE BASE BID.
2. THE 18 RODS IN THE LOWER LEVEL ARE TO BE QUOTED ON A UNIT PRICE BASIS (SEE SECTION G, ITEM NO. 5.3.1.4).



Donald S. Reichle
6-20-90

BROWNSVILLE NAVIGATION DISTRICT

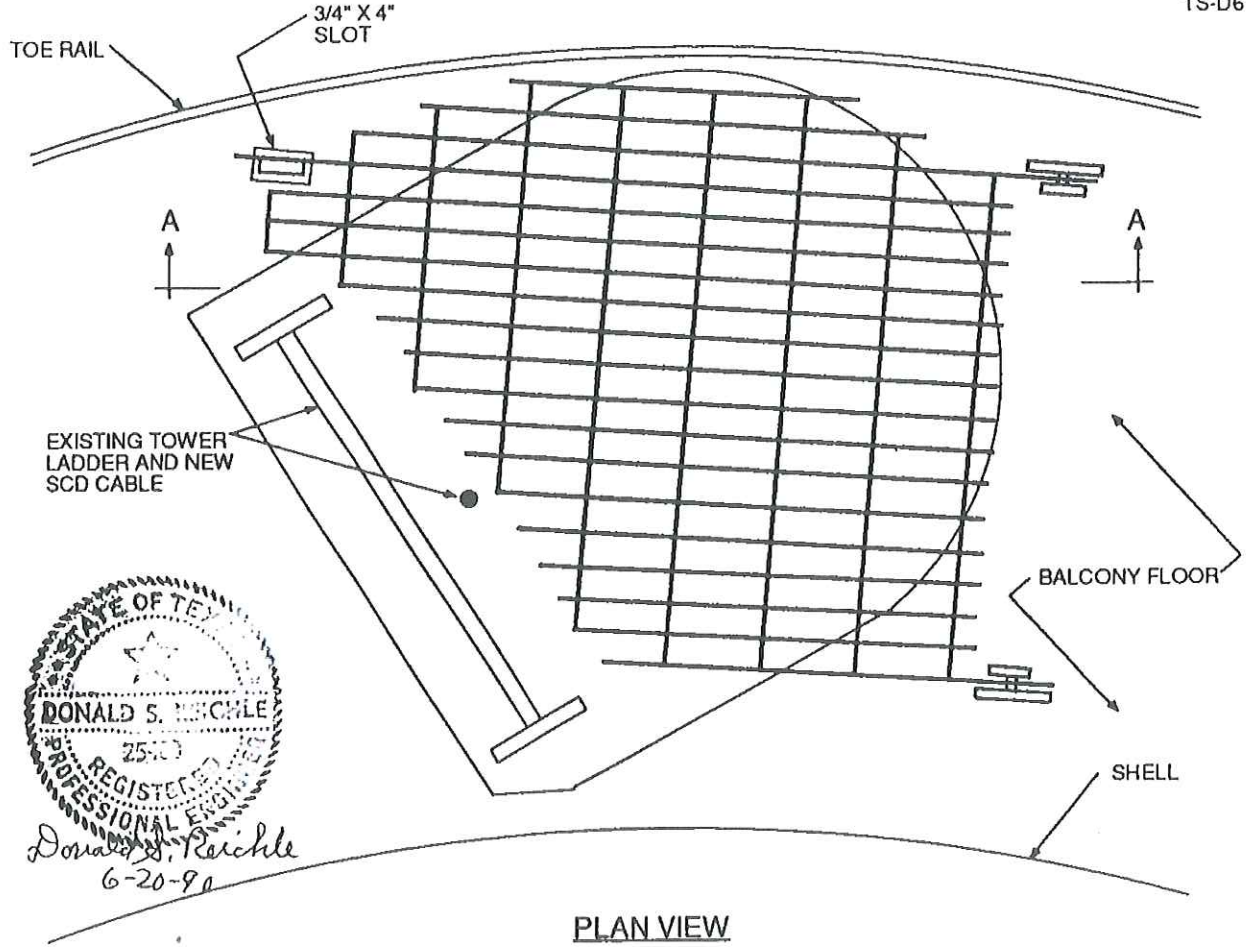
NEW SWAY RODS
(TANK A)

DON S. REICHLER
& ASSOCIATES
Nederland, Texas

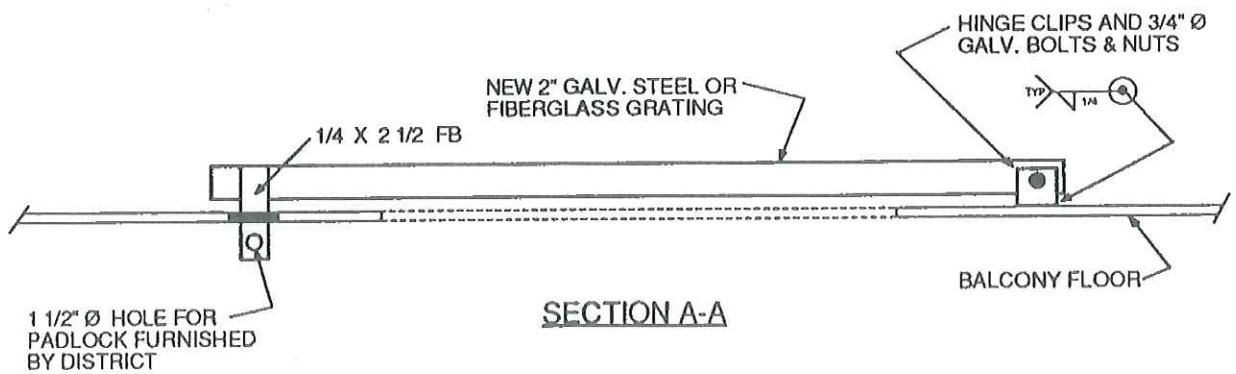
DATE: 6/20/90

BY: RSR/CK: DSR

DWG. 3463-5



STATE OF TEXAS
 DONALD S. REICHLE
 25403
 REGISTERED PROFESSIONAL ENGINEER
 Donald S. Reichle
 6-20-90



GENERAL NOTES

1. THIS DRAWING NOT TO SCALE.
2. ACTUAL GRATING SHAPE TO BE FABRICATED FROM PATTERN MADE IN FIELD BY CONTRACTOR.
3. GRATING TO CLEAR SHELL AND HANDRAIL IN FULL OPEN POSITION AND SCD IN CLOSED POSITION.
4. SEAL WELD ALL JOINTS.
5. GRIND ALL WELDS, CORNERS AND EDGES SMOOTH.

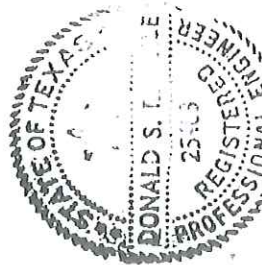
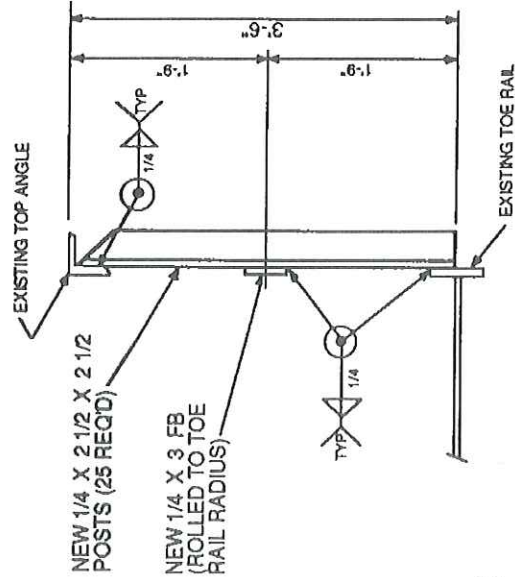
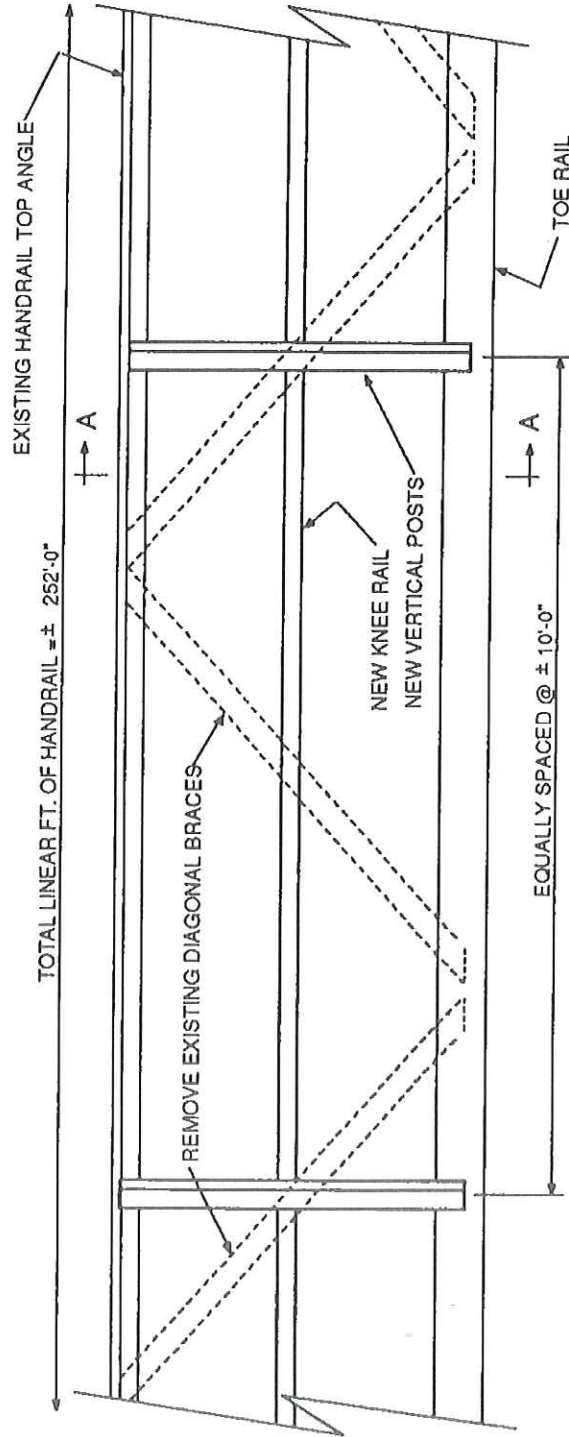
BROWNSVILLE NAVIGATION DISTRICT

SAFETY GRATING AT TOP OF
 TOWER LADDER
 (TANK A)

DON S. REICHLE
 & ASSOCIATES
 Nederland, Texas

DATE: 6/6/90
 BY:RSR CK:DSR
 DWG. 3463-6

TS-D7



Donald S. Reichle
6-20-90

GENERAL NOTES

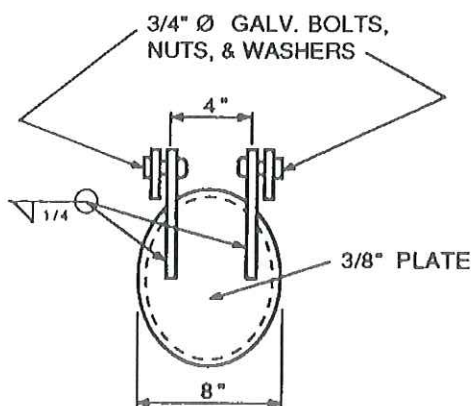
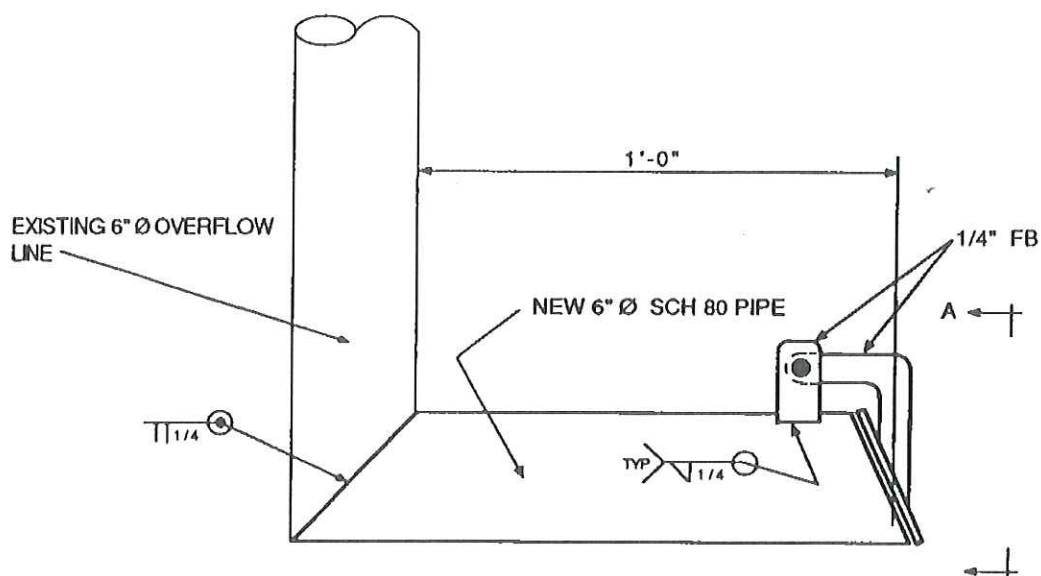
1. EXISTING HANDRAIL TOP ANGLE TO BE RE-USED.
2. CONTRACTOR TO VERIFY LENGTHS BEFORE FABRICATION.
3. SEAL WELD ALL JOINTS.
4. GRIND ALL CORNERS AND EDGES SMOOTH.

BROWNSVILLE NAVIGATION DISTRICT

ALTER BALCONY HANDRAIL
(TANK A)

DON S. REICHL & ASSOCIATES Nederland, Texas	DATE: 6/13/90
	BY: RSR CK: DSR DWG. 3463-7

SECTION A-A



SECTION A-A



Donald S. Reichle
6/20/90

GENERAL NOTES

1. REMOVE EXISTING 45° SECTION OF EXISTING OVERFLOW LINE AND EXISTING FLAP VALVE.
2. FLAP VALVE COVER TO SEAT BY GRAVITY WITH NO GAPS OVER 1/16".
3. SLOPE NEW LINE SLIGHTLY TO PREVENT STANDING WATER.
4. SEAL WELD ALL JOINTS.
5. GRIND ALL CORNERS, EDGES, WELDS, ETC. SMOOTH.

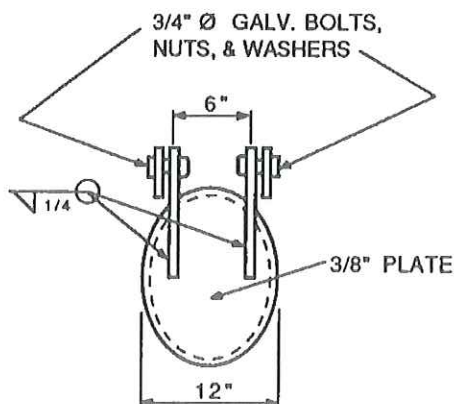
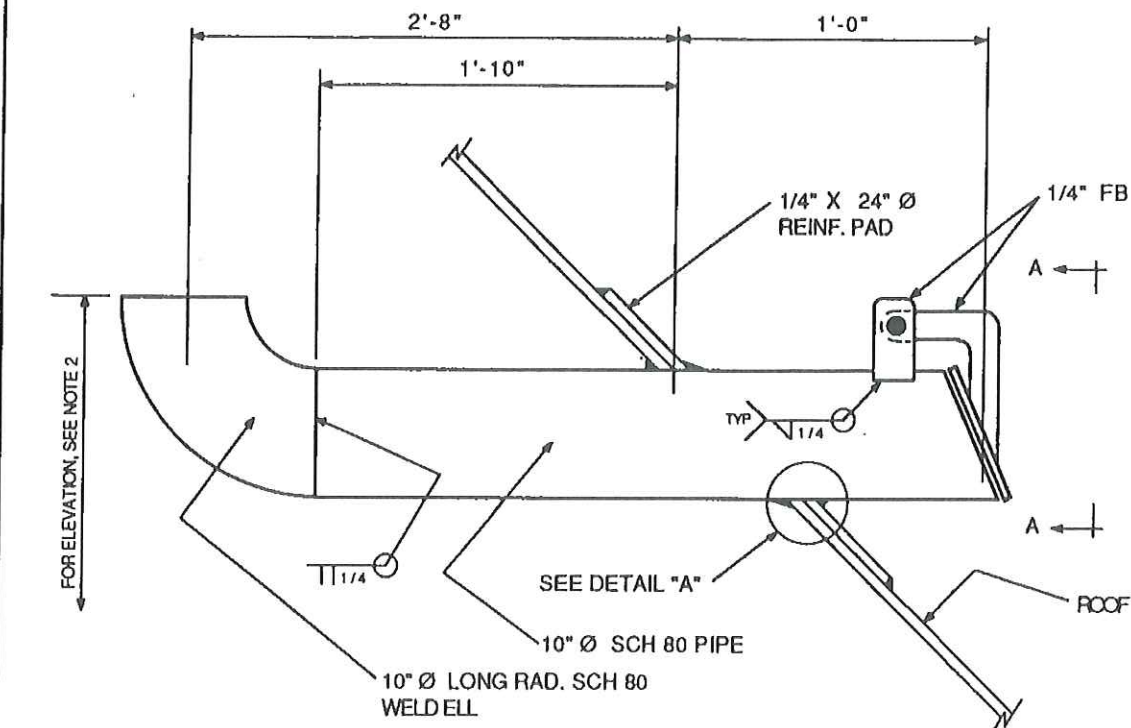
BROWNSVILLE NAVIGATION DISTRICT**NEW 6" Ø STUB OVERFLOW
(TANK A)**

DON S. REICHLE
& ASSOCIATES
Nederland, Texas

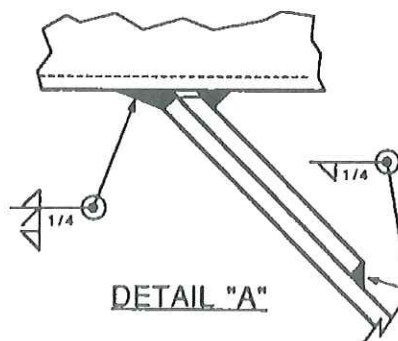
DATE: 6/7/90

BY: RSR CK: DSR

DWG. 3463-8



SECTION A-A



DETAIL "A"



Donald S. Reichle
6/20/90

GENERAL NOTES

1. LOCATE IN FIELD BY ENGINEER.
2. ELEVATION TO BE 3" ABOVE EXISTING HWL.
3. FLAP VALVE COVER PLATE TO SEAT WITH NO GAPS OVER 1/16".
4. SLOPE LINE SLIGHTLY TO PREVENT STANDING WATER.
5. SEAL WELD ALL JOINTS.
6. GRIND ALL CORNERS, EDGES, WELDS, ETC. SMOOTH.

BROWNSVILLE NAVIGATION DISTRICT

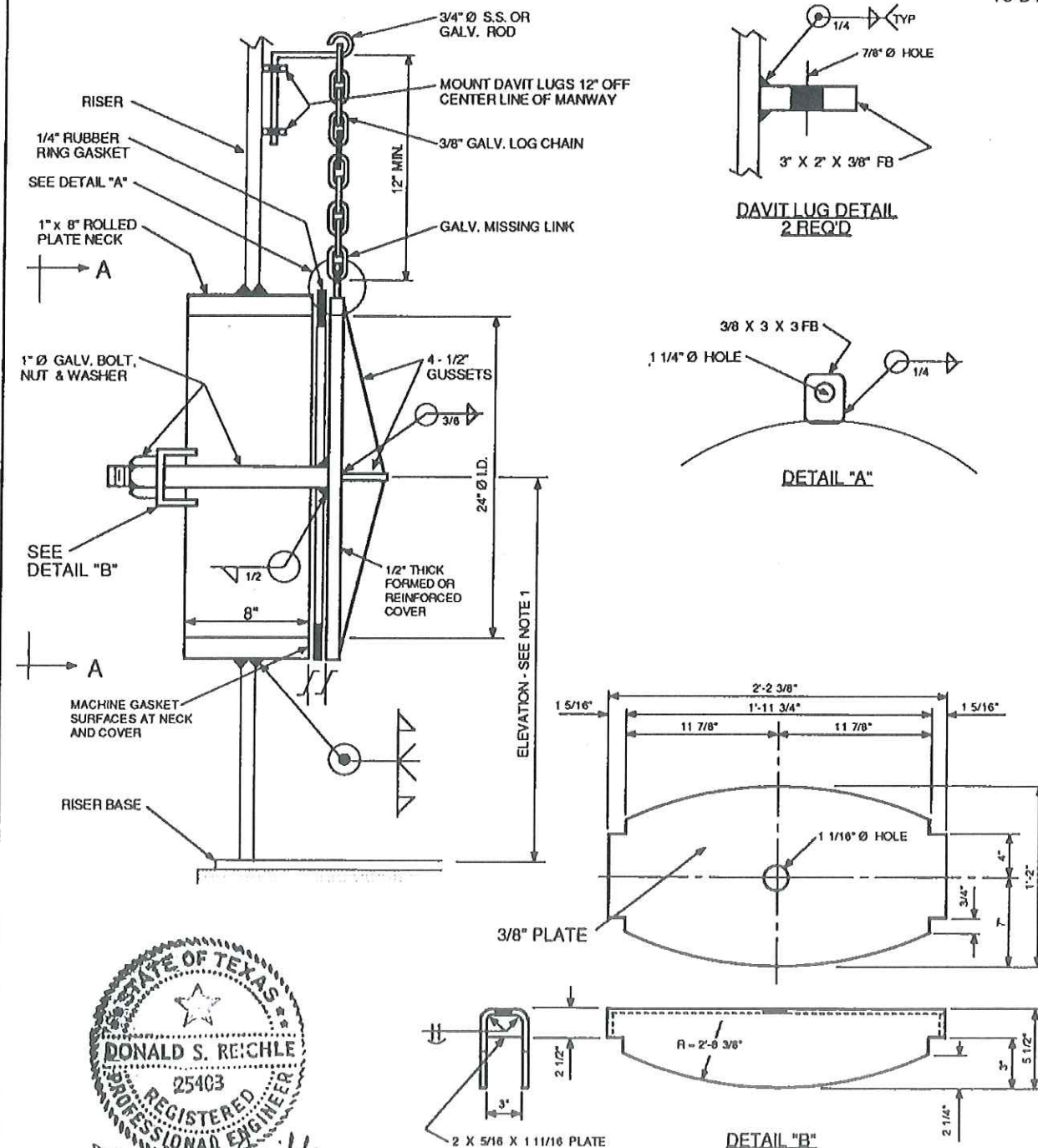
NEW 10" Ø STUB OVERFLOW
(TANKS A & B)

DON S. REICHLE
& ASSOCIATES
Nederland, Texas

DATE: 6/12/90

BY: RSR CK: DSR

DWG. 3463-9



GENERAL NOTES

1. ENGINEER TO LOCATE IN FIELD.
2. GRIND ALL CORNERS & EDGES SMOOTH.
3. FIELD TO LOCATE NECK SEAM AT TOP OF MANWAY.
4. USE NECK AS TEMPLATE FOR CUTTING HOLE IN SHELL. HOLE TO BE O.D. OF NECK PLUS 1/4" MAXIMUM.
5. MACHINE GASKET SURFACES AFTER WELDING FOR POSITIVE LEAKPROOF JOINT.
6. BUTT WELD IN NECK TO BE FULL PENETRATION WELD.

BROWNSVILLE NAVIGATION DISTRICT

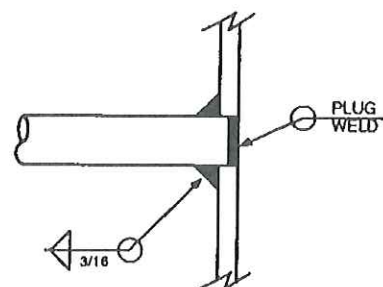
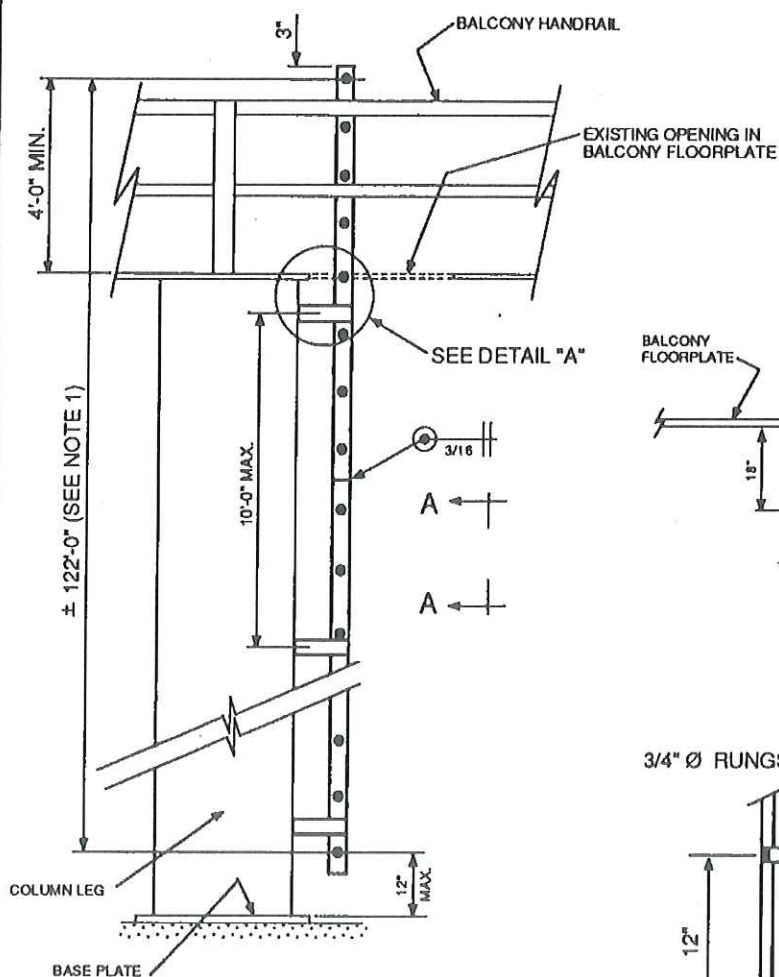
NEW 24" Ø RISER MANWAY
(TANKS A & B)

DON S. REICHLÉ
& ASSOCIATES
 Nederland, Texas

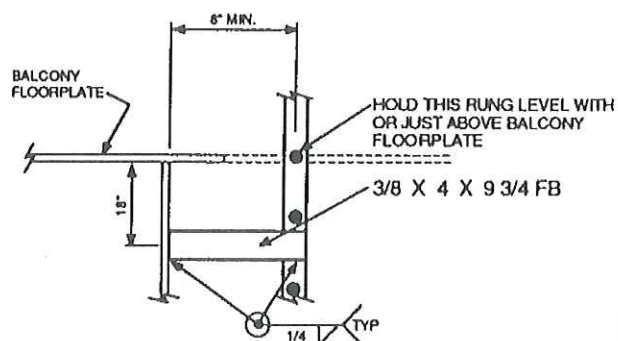
DATE:6/10/90

BY:RSR	CK:DSR
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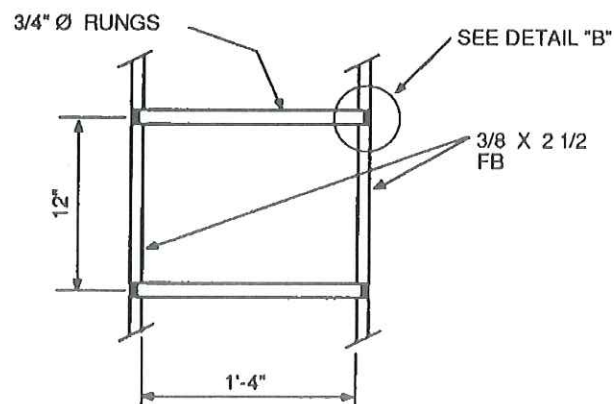
DWG. 3463-10



DETAIL "B"



DETAIL "A"



SECTION A-A



Donald S. Reichle
6-20-90

GENERAL NOTES

1. CONTRACTOR MUST VERIFY LADDER LENGTH BEFORE FABRICATION.
2. NEW BRACKETS TO HOLD LADDER STRINGERS AT SAME DISTANCE OUT AS EXISTING STRINGERS.
3. ORIENTATION SAME AS EXISTING LADDER.
4. DO NOT CUT THROUGH BALCONY FLOORPLATE.
5. SEAL WELD ALL JOINTS.
6. GRIND ALL WELDS, CORNERS AND EDGES SMOOTH.

BROWNSVILLE NAVIGATION DISTRICT

NEW TOWER LADDER
(TANK A)

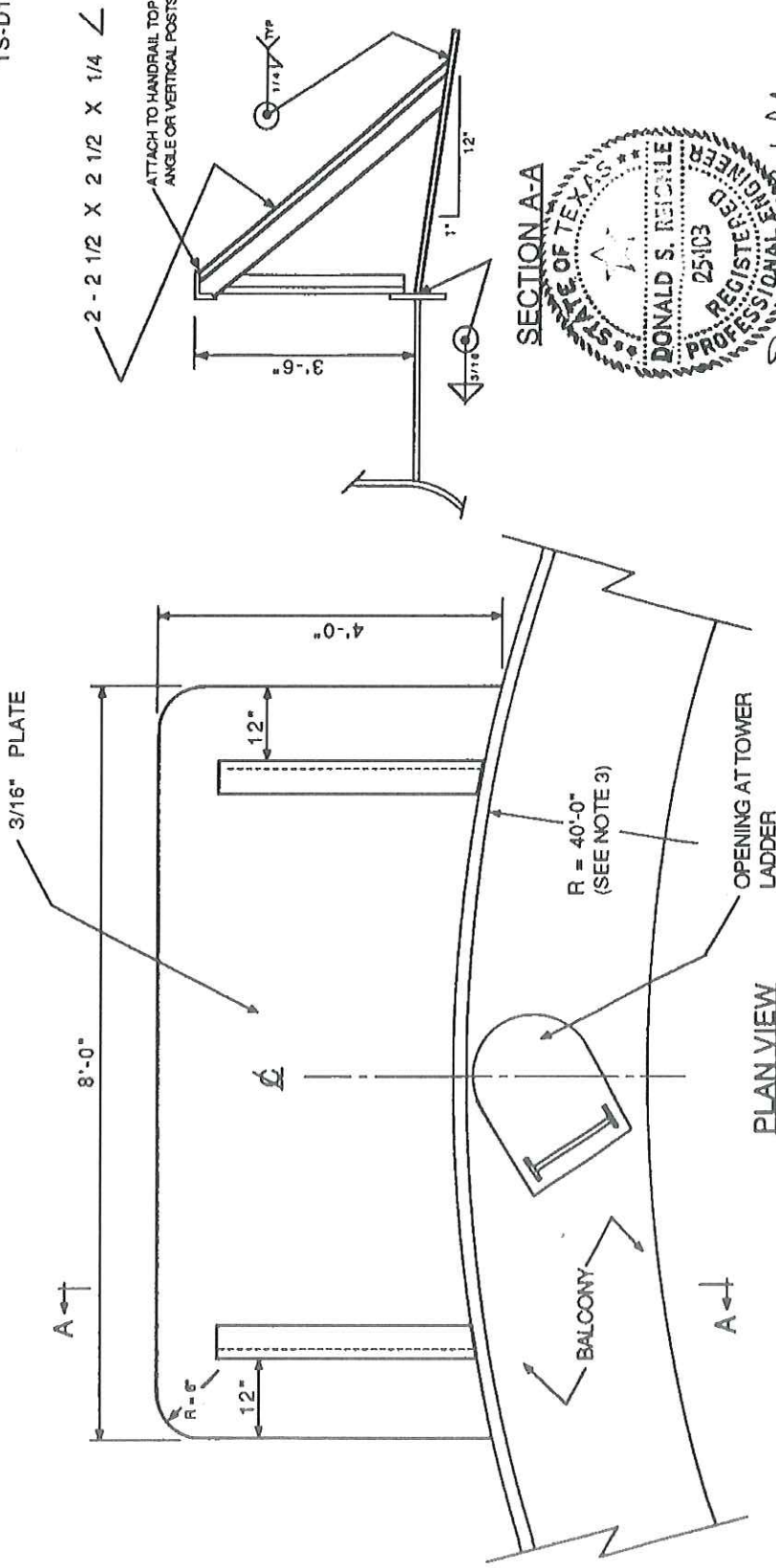
DON S. REICHLER
& ASSOCIATES
Nederland, Texas

DATE: 6/11/90

BY: RSR CK: DSR

DWG. 3463-11

TS-D12



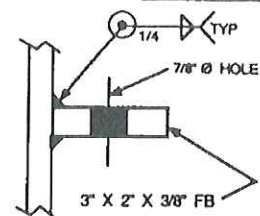
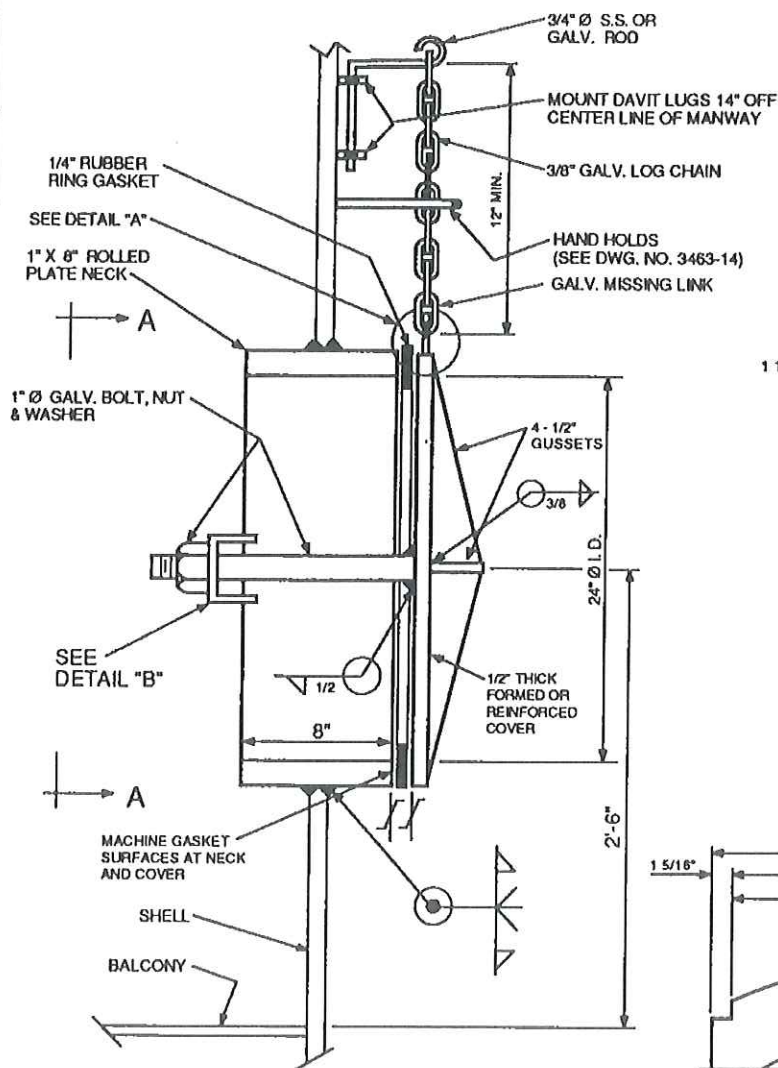
BROWNSVILLE NAVIGATION DISTRICT

VANDAL GUARD PLATE
(TANK A)

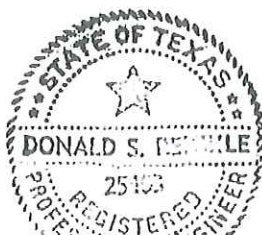
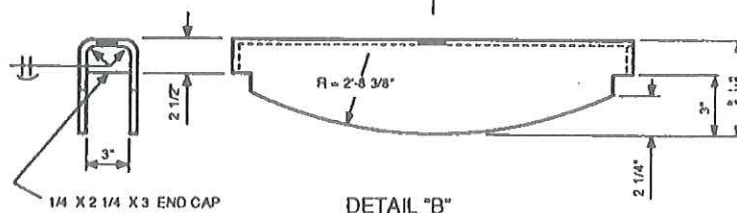
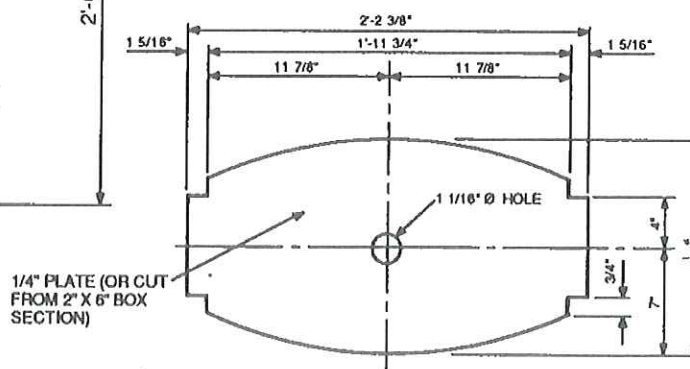
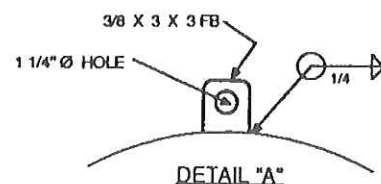
DON S. REICHEL & ASSOCIATES Nederland, Texas	DATE: 6/12/90
	BY: RSR/CK: DSR
	DWG. 3463-12

GENERAL NOTES

1. SEAL WELD ALL JOINTS.
2. GRIND ALL WELDS, CORNERS AND EDGES SMOOTH.
3. CONTRACTOR TO VERIFY RADIUS OF BALCONY BEFORE FABRICATION.



DAVIT LUG DETAIL
2 REQ'D



Donald S. Reichle
6-20-90

GENERAL NOTES

1. SEE DWG. NO. 3463-14 FOR LOCATION.
2. GRIND ALL WELDS, CORNERS & EDGES SMOOTH
3. FIELD TO LOCATE NECK SEAM AT TOP OF MANWAY.
4. USE NECK AS TEMPLATE FOR CUTTING HOLE IN SHELL. HOLE TO BE O.D. OF NECK PLUS 1/4" MAXIMUM.
5. MACHINE GASKET SURFACES AFTER WELDING FOR POSITIVE LEAKPROOF JOINT.
6. BUTT WELD IN NECK TO BE FULL PENETRATION WELD.

BROWNSVILLE NAVIGATION DISTRICT

NEW 24" Ø SHELL MANWAY (TANKS A & B)

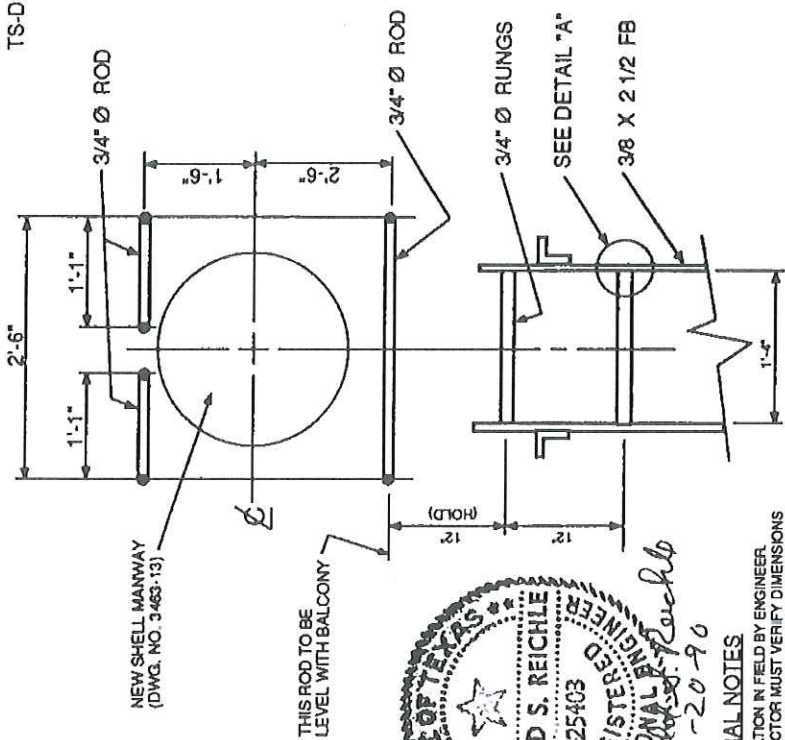
DON S. REICHLE
& ASSOCIATES
Nederland, Texas

DATE: 6/12/90

BY:RSR CK:DSR

DWG. 3463-13

TS-D14

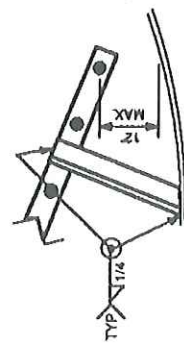
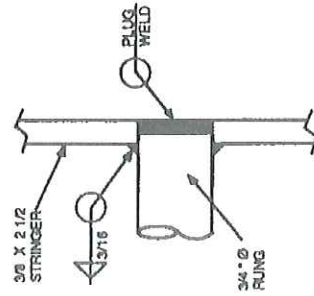
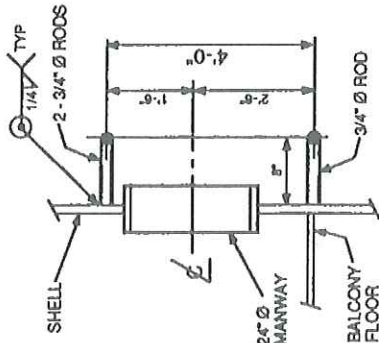
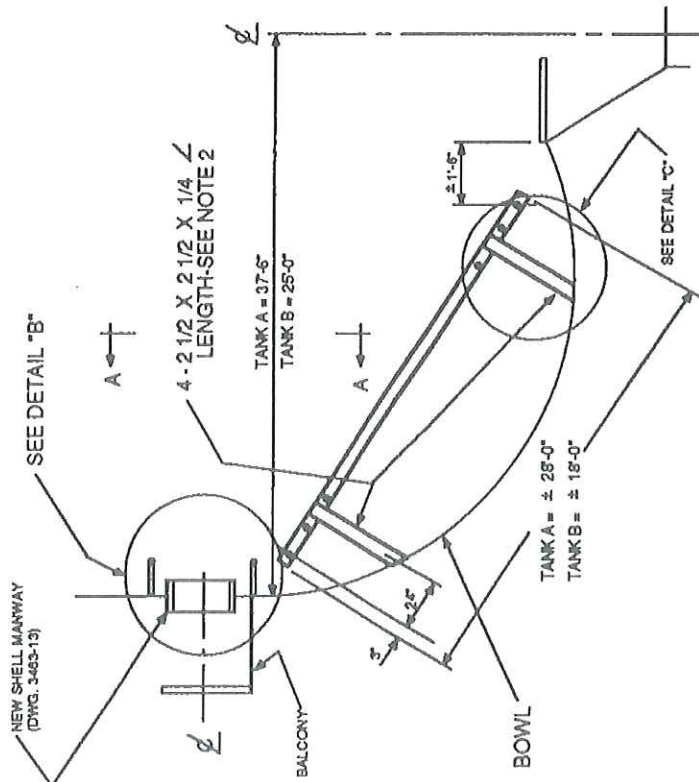


THIS ROD TO BE LEVEL WITH BALCONY



GENERAL NOTES

1. ORIENTATION IN FIELD BY ENGINEER.
2. CONTRACTOR MUST VERIFY DIMENSIONS IN FIELD BEFORE FABRICATION.
3. SEAL WELD ALL JOINTS.
4. GRIND ALL WELDS, CORNERS AND EDGES SMOOTH.

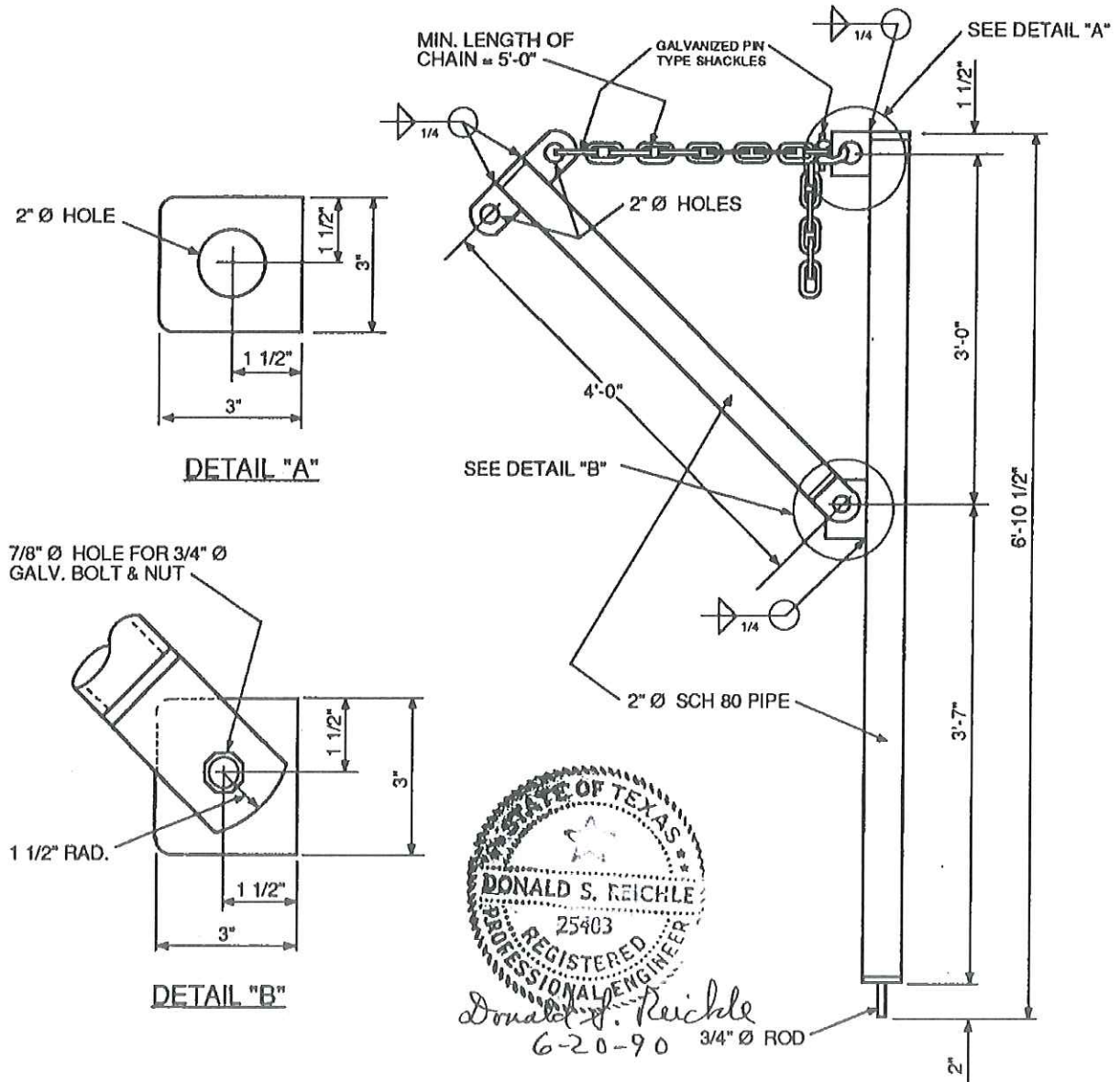


BROWNSVILLE NAVIGATION DISTRICT

NEW INSIDE BOWL LADDER
(TANKS A & B)

DON S. REICHLER
& ASSOCIATES
Nederland, Texas

DATE: 6/13/90
BY: RSR CK: DSR
DWG. 3463-14



GENERAL NOTES

1. ALL PIPE = 2" Ø SCH 80
2. SEAL WELD ALL JOINTS.
3. GRIND ALL CORNERS, WELDS, EDGES, ETC. SMOOTH.
4. CAP ENDS OF ALL PIPE WITH 3/16" PLATE & SEAL WELD.
5. CHAIN TO BE 3/8" GALV. LOG.
6. ALL LUGS = 1/4" PLATE
7. FOR DAVIT SUPPORT LUGS, SEE DWG. NO. 3190-6.
8. DO NOT EXCEED MAX. LIFT CAPACITY OF 150 LBS.

BROWNSVILLE NAVIGATION DISTRICT

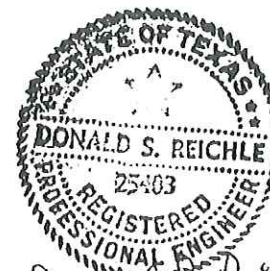
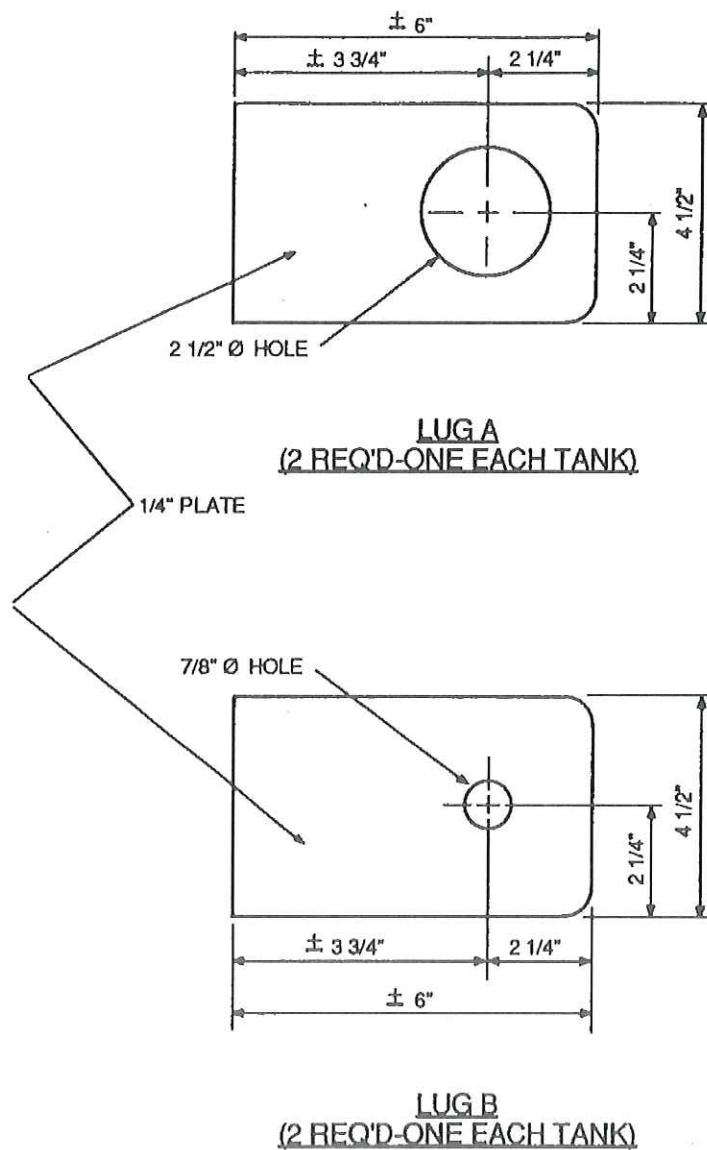
NEW DAVIT
(TANK A)

DON S. REICHLE
& ASSOCIATES
Nederland, Texas

DATE: 6/9/90

BY:RSR CK:DSR

DWG. 3463-15



Donald S. Reichle
6-20-90

GENERAL NOTES

1. ENGINEER TO LOCATE IN FIELD.
2. MOUNT LUG "A" INBOARD ON BALCONY HANDRAIL TOP ANGLE.
3. MOUNT LUG "B" INBOARD ON BALCONY TOE RAIL
4. CENTERLINE OF LUG HOLES MUST BE VERTICAL. CONTRACTOR TO VERIFY PLUMBNESS OF HANDRAIL BEFORE FABRICATION.
5. GRIND ALL CORNERS, WELDS, EDGES, ETC. SMOOTH.
6. SEAL WELD ALL JOINTS.

BROWNSVILLE NAVIGATION DISTRICT

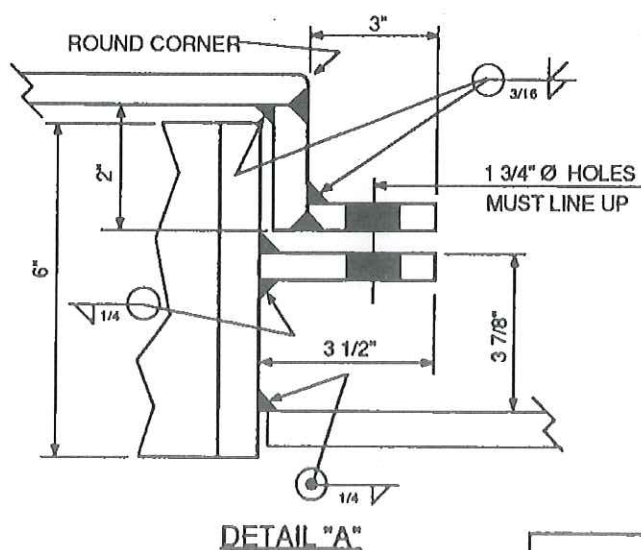
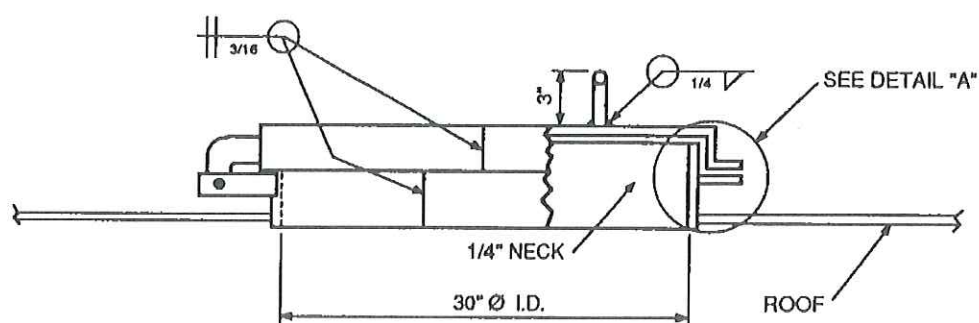
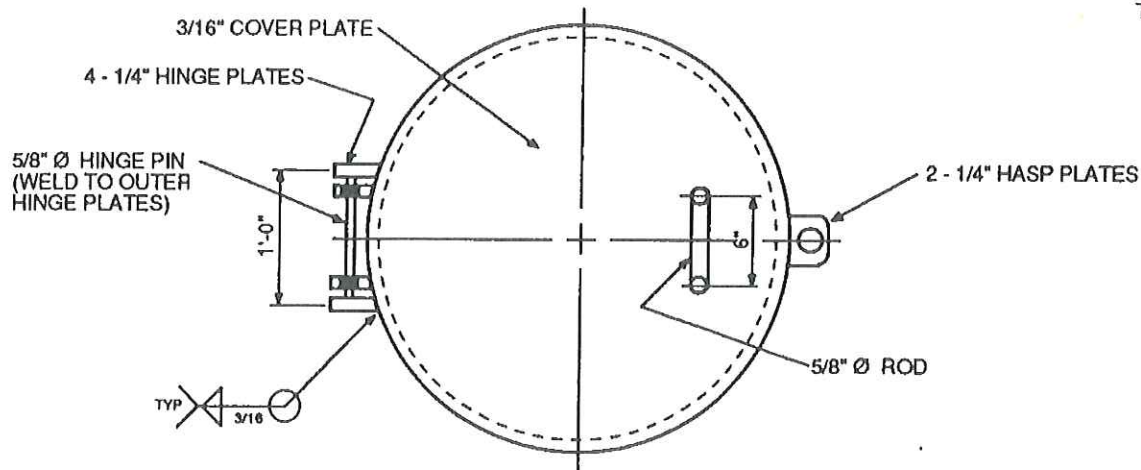
DAVIT SUPPORT LUGS
(TANKS A & B)

DON S. REICHLE
& ASSOCIATES
Nederland, Texas

DATE: 6/8/90

BY:RSR CK:DSR

DWG. 3463-16



Donald S. Reichly
6-20-90

GENERAL NOTES

1. NEW 30" Ø MANWAY TO REPLACE EXISTING 24" Ø ROOF MANWAY.
2. MANWAY COVER TO OPEN TOWARD FINIAL
3. SEAL WELD ALL JOINTS.
4. GRIND ALL CORNERS, EDGES, WELDS, ETC. SMOOTH.

BROWNSVILLE NAVIGATION DISTRICT

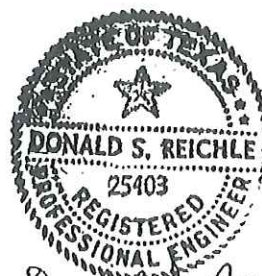
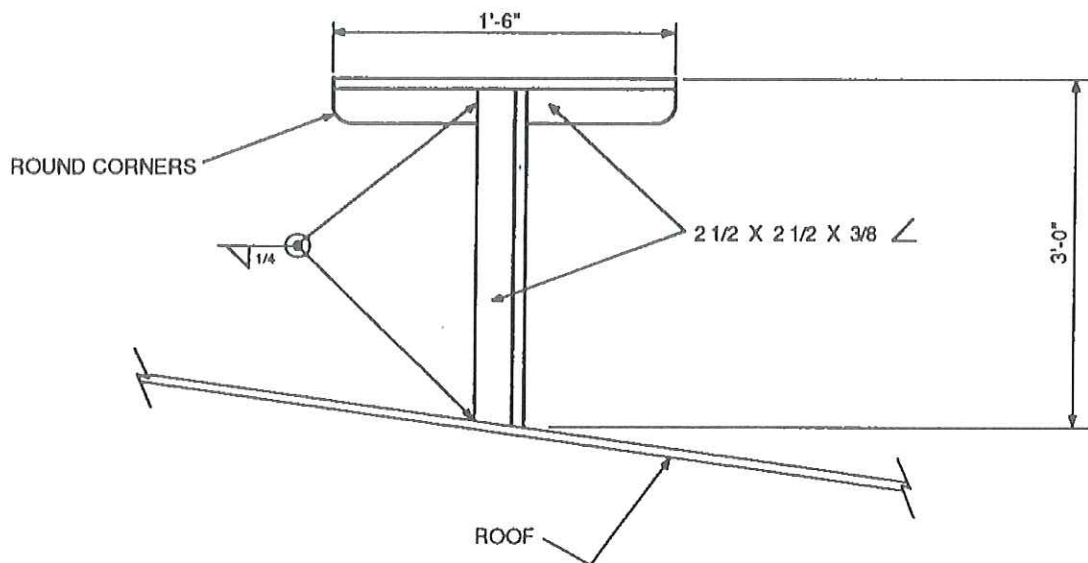
NEW 30 " Ø ROOF MANWAY
(TANKS A & B)

**DON S. REICHLE
& ASSOCIATES**
Nederland, Texas

DATE: 6/7/90

BY:RSR CK:DSR

DWG. 3463-17



Donald S. Reichle
6-20-90

GENERAL NOTES

1. LOCATE AT OR NEAR FINIAL BY ENGINEER.
2. SEAL WELD ALL JOINTS.
3. GRIND ALL CORNERS, EDGES, WELDS, ETC. SMOOTH.

BROWNSVILLE NAVIGATION DISTRICT

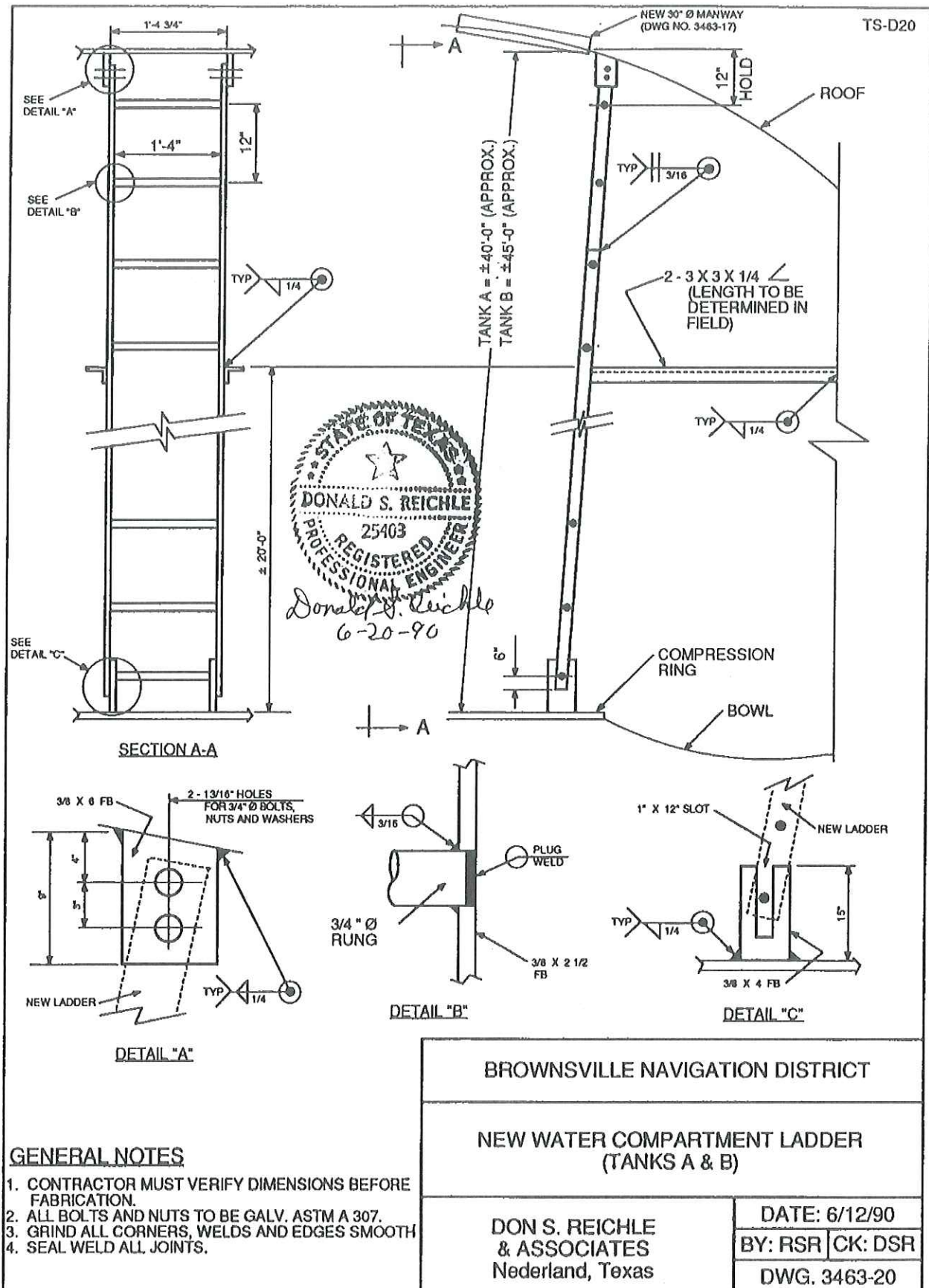
MOUNTING BRACKET FOR AIRCRAFT
CLEARANCE LIGHT
(TANKS A & B)

DON S. REICHLE
& ASSOCIATES
Nederland, Texas

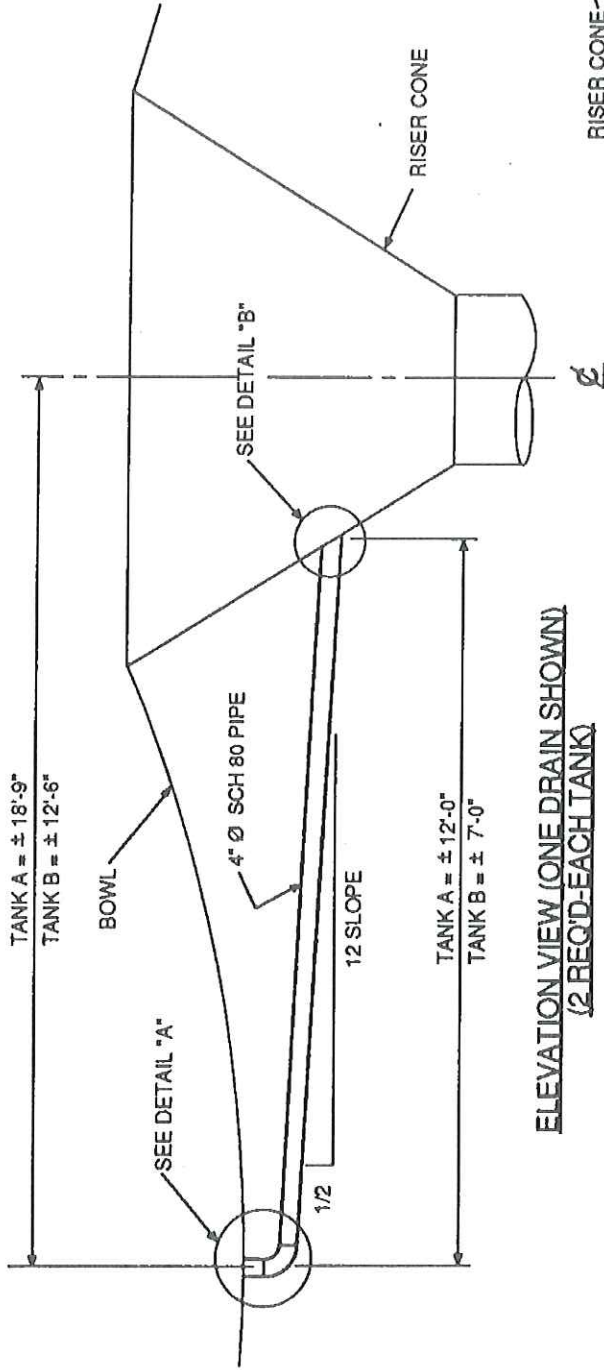
DATE: 6/5//90

BY:RSR CK:DSR

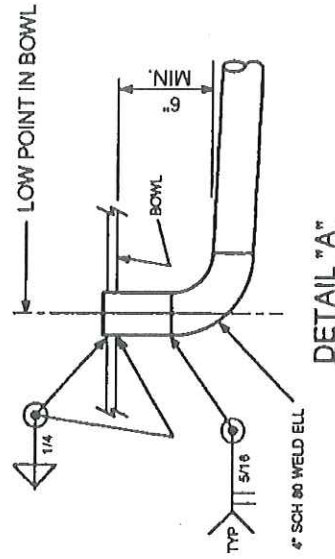
DWG. 3463-19



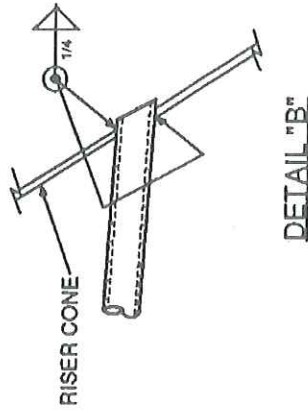
TS-D21



ELEVATION VIEW (ONE DRAIN SHOWN)
(2 REQ'D-EACH TANK)



DETAIL "A"



DETAIL "B"



Donald S. Reichle
6-20-90

GENERAL NOTES

1. CONTRACTOR MUST VERIFY DIMENSIONS BEFORE FABRICATION.
2. TWO (2) DRAINS REQ'D EACH TANK.
3. ORIENTATION IN FIELD BY ENGINEER APPROX. 180° APART.
4. SEAL WELD ALL JOINTS.
5. GRIND ALL WELDS, CORNERS AND EDGES SMOOTH.

BROWNSVILLE NAVIGATION DISTRICT

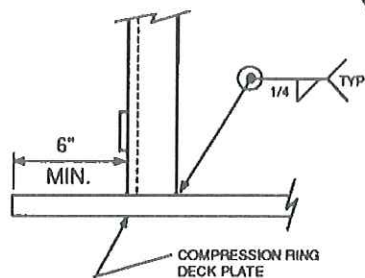
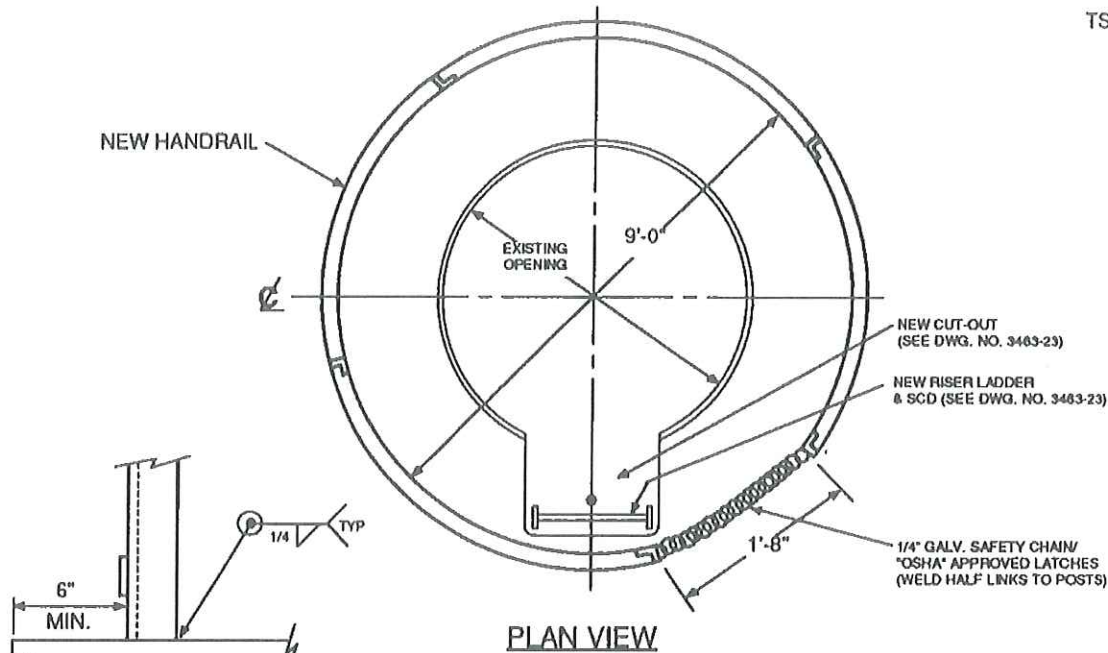
NEW BOWL DRAINS
(TANKS A & B)

DON S. REICHLER
& ASSOCIATES
Nederland, Texas

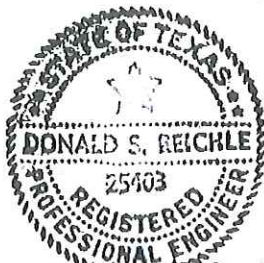
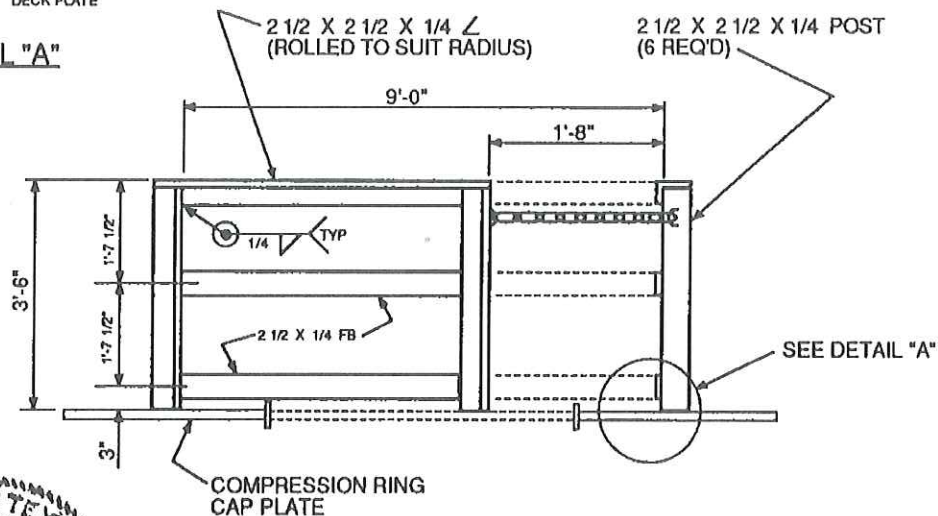
DATE: 6/5/90

BY: RSR CK: DSR

DWG. 3463-21



DETAIL "A"



Donald S. Reichle
6-20-90

GENERAL NOTES

1. ORIENTATE IN ACCORDANCE WITH DWG. NO. 3463-23.
2. SEAL WELD ALL JOINTS.
3. GRIND ALL CORNERS AND EDGES SMOOTH

BROWNSVILLE NAVIGATION DISTRICT

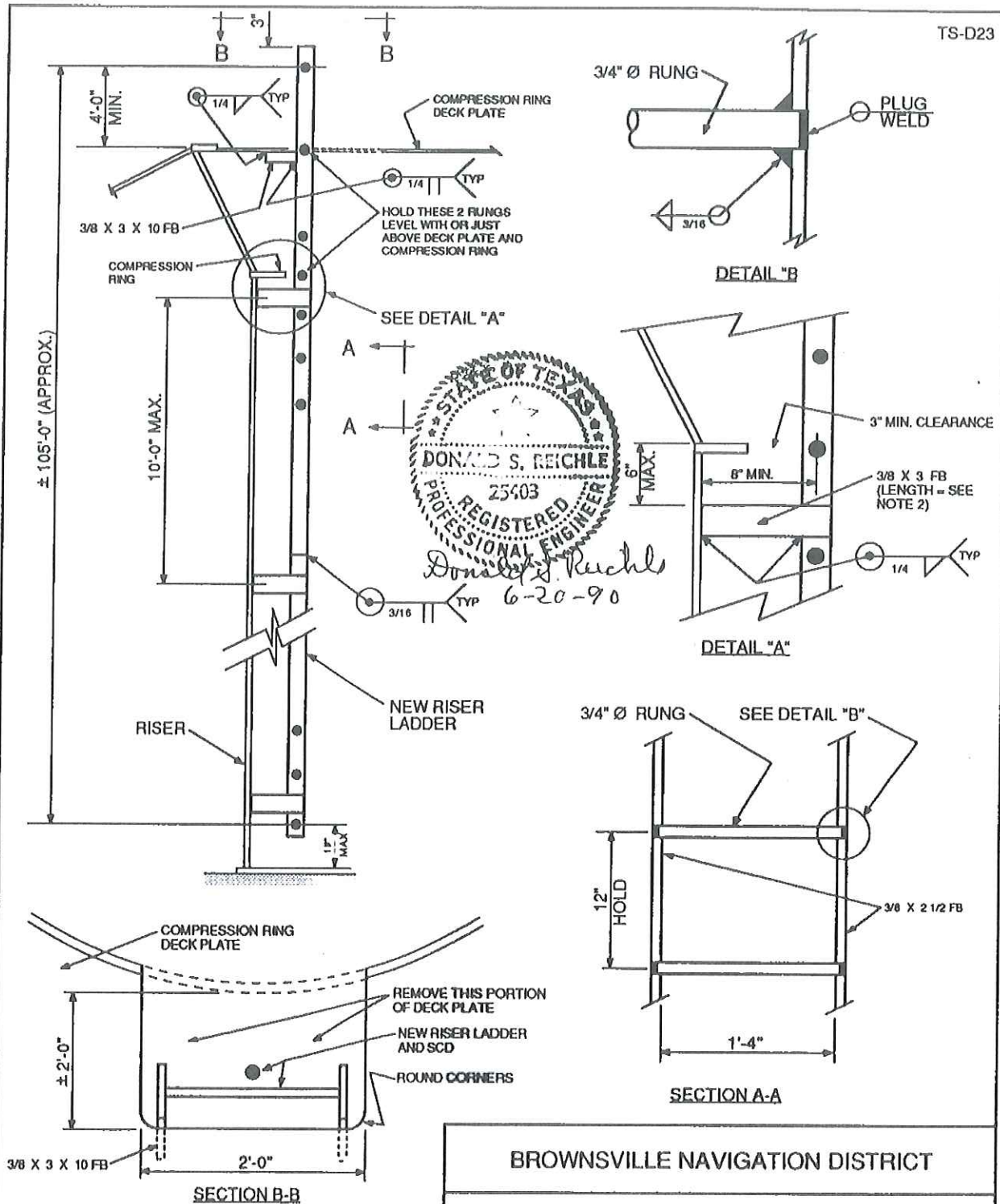
NEW RISER HANDRAIL
(TANK A)

DON S. REICHLER
& ASSOCIATES
Nederland, Texas

DATE: 6/10/90

BY: RSR CK: DSR

DWG. 3463-22

**GENERAL NOTES**

1. ORIENTATION IN FIELD BY ENGINEER.
2. CONTRACTOR MUST VERIFY LADDER AND LADDER BRACKET LENGTHS BEFORE FABRICATION.
3. GRIND ALL WELDS, CORNERS AND EDGES SMOOTH.
4. SEAL WELD ALL JOINTS.

BROWNSVILLE NAVIGATION DISTRICT

NEW RISER LADDER
(TANK A)DON S. REICHLE
& ASSOCIATES
Nederland, Texas

DATE: 6/13/90

BY: RSR CK: DSR

DWG. 3463-23