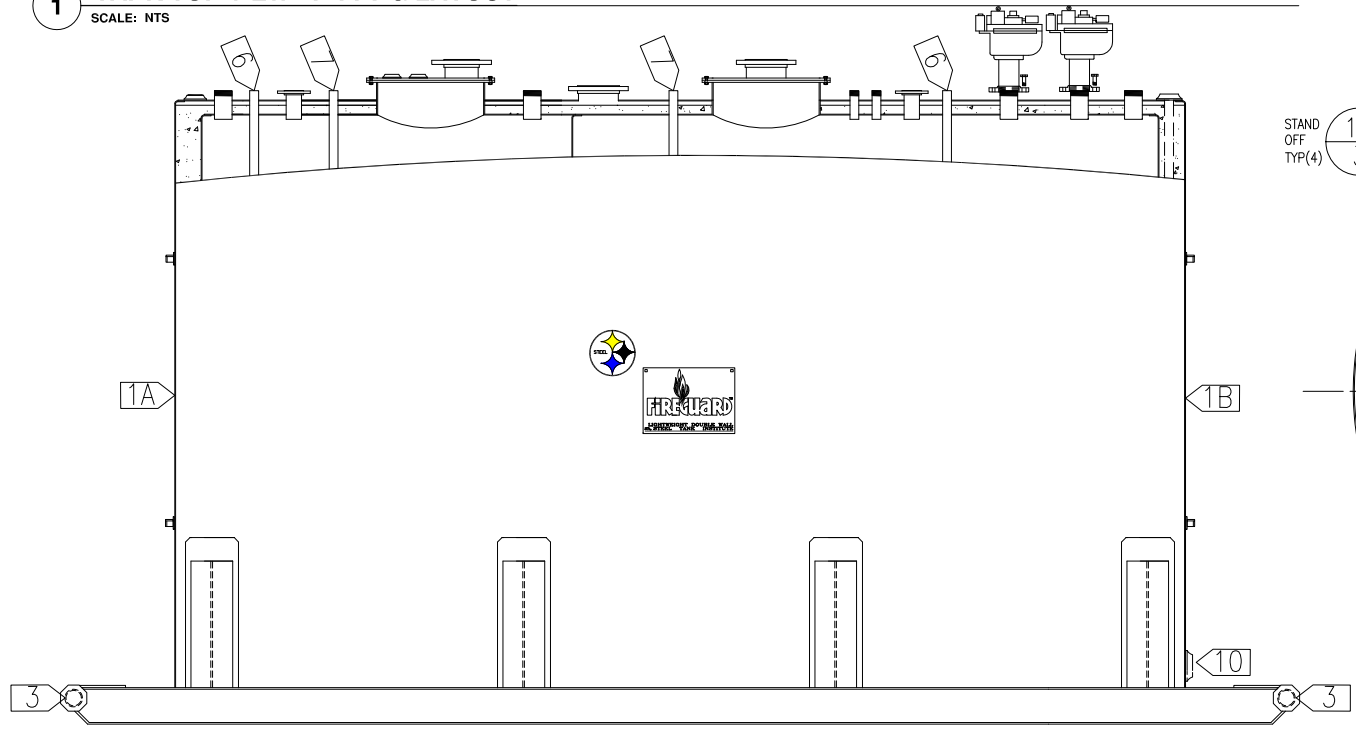
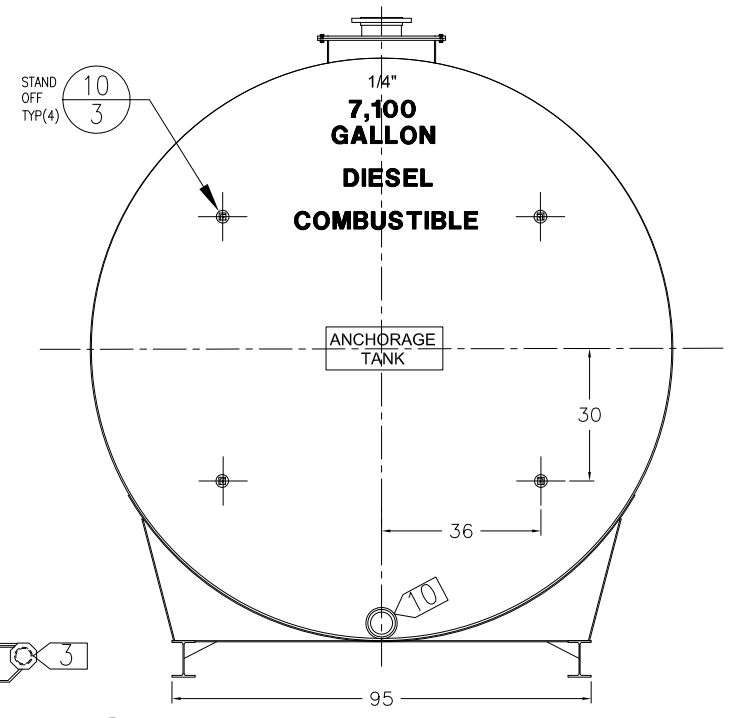


1 TANK TOP VIEW - FITTING LAYOUT
SCALE: NTS



2 TANK SIDE VIEW
SCALE: NTS



3 TANK RIGHT END VIEW
SCALE: NTS
(SKID SHOWN AS SECTION)

SPECIFIC NOTES FOR THIS SHEET:

- 1 3" HIGH BLACK LETTERING x 1/2" STROKE TEXT AS FOLLOWS:
A. FLAMMABLE 4,500 GALLONS GASOLINE
B. COMBUSTIBLE 7,100 GALLONS DIESEL
- 2 LIFTING LUG WITH DOUBLER PLATE (MIN 2).
- 3 4" SCH 80 TOW BAR, BOTH ENDS
- 4 TANK MOUNT LIGHT POLE BASE, SEE 17/SHEET 5 FOR LOCATIONS (TYP 2)
- 5 LADDER AND CATWALK ASSEMBLY (NOT SHOWN)
- 6 INSTALL WATER DRAW (SEE 15/SHEET 4)
- 7 INSTALL CLOCK GAUGE STILLING WELL (SEE 14/SHEET 4)
- 8 BOLT ON PIPE SUPPORT (SEE 13/SHEET 4)
- 9 STRUT SUPPORT STAND OFF, SHOP WELDED AT MID HEIGHT. (SEE 5/SHEET 2)
- 10 PLUG OPENING AFTER PUMPING INSULATION INTO INTERSTICE

GENERAL NOTES:

1. PROVIDE ONE PROTECTED 11,600 GALLON NOMINAL CAPACITY DUAL PRODUCT TANK AS SHOWN. MAX PRIMARY TANK DIMENSION: 10.5' x 18' L. THE GASOLINE COMPARTMENT SHALL HAVE 4,500 GALLON CAPACITY & THE DIESEL COMPARTMENT SHALL HAVE 7,100 GALLON CAPACITY.
2. TANK SHALL BE NEW UL 142 & 2085 LISTED AND LABELED.
3. ALL THREADED PENETRATIONS FNPT.
4. ALL REQUIRED PENETRATIONS, STANDOFFS, PIPE SUPPORTS ETC., SHALL BE BOLT ON OR FACTORY INSTALLED. FIELD WELDING ON TANKS IS PROHIBITED.
5. ALL FLANGED PENETRATIONS TO BE SCH 80 PIPE WITH 150# BUTT WELD, RAISED FACE FLANGE.

NOMINAL TANK SIZE	11,600
DIMENSIONS	
DIAMETER INNER TANK	126"
DIAMETER OUTER TANK	132"
LENGTH INNER TANK	216"
LENGTH OUTER TANK	228"
LENGTH OVERALL	276"
SADDLE SPACING	4 @ 71"
CAPACITIES	
GASOLINE COMPT.(GALLONS)	4,500
DIESEL COMPT. (GALLONS)	7,100
OUTER TANK (GALLONS)	12,790
% CONTAINMENT	110%
MATERIALS	
INNER TANK	1/4"
OUTER TANK	1/4"
INNER & OUTER TANK HEADS	5/16"
SKID BEAMS	W8 X 35#
SADDLES	PL 1/4" X 12"
MISC SKID PARTS	PL 1/4"
TOWBAR	4" SCHED 80
OTHER DATA	
VENT SIZE	2"
Cu Ft/Hr GASOLINE COMPT.	273,960
Cu Ft/Hr DIESEL COMPT.	340,340
Cu Ft/Hr OUTER TANK	392,000
E. VENT GASOLINE COMPT.	6"
E. VENT DIESEL COMPT.	8"
E. VENT OUTER TANK	8"

ANCHORAGE TANK & WELDING, INC.
2700 PORCUPINE DRIVE, ANCHORAGE, ALASKA 99501
(907) 272-3543

STEEL TANK INSTITUTE FIREGUARD®
U.S. PATENT NO. 5,695,059

THIS TANK REQUIRES EMERGENCY RELIEF VENTING, CAPACITY NOT LESS THAN THE FOLLOWING:
 PRIMARY TANK / COMPARTMENT A 4,500 GALLONS 273,960 CUBIC FT/HR
 PRIMARY TANK / COMPARTMENT B 7,100 GALLONS 273,960 CUBIC FT/HR
 ANNULAR SPACE CAPACITY 12,790 GALLONS 392,000 CUBIC FT/HR
 DATE OF MANUFACTURE: OCT 2014

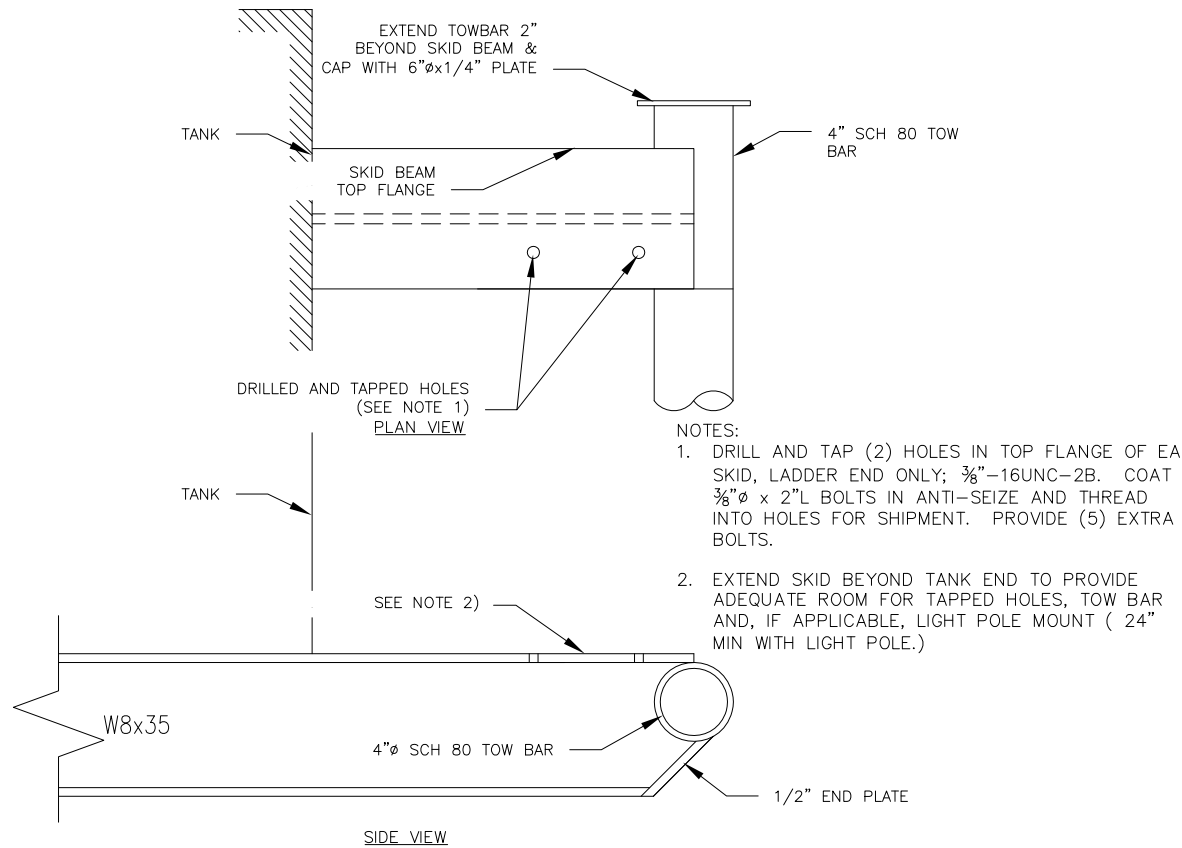
UL LISTED
PROTECTED SECONDARY CONTAINMENT ABOVEGROUND TANK FOR FLAMMABLE LIQUIDS
UL SERIAL NUMBER XXXXXXXX
FIREGUARD®
UL 2085, STI MH 17883

- FOLLOW INSTALLATION INSTRUCTIONS
- TANK IS INTENDED FOR STATIONARY INSTALLATION ONLY
- PRESSURIZE PRIMARY TANK WHEN PRESSURE TESTING ANNULAR SPACE
- VEHICLE IMPACT RESISTANT
- THIS TANK SHALL BE INVESTIGATED TO DETERMINE ACCEPTABILITY OF USE AFTER FIRE EXPOSURE DAMAGE, OTHER PHYSICAL DAMAGE, OR MISUSE.
- IF A LEAK IS DETECTED (WATER OR FUEL) THIS TANK IS TO BE REMOVED FROM SERVICE. THE LOCAL CODE AUTHORITY AND TANK MANUFACTURER SHOULD BE CONTACTED TO DETERMINE IF THE INSULATION CAN BE REPLACED OR REPAIRED.
- THIS TANK IS INTENDED FOR INSTALLATION IN ACCORDANCE WITH NFPA 30, NFPA 30A, NFPA 31, OR THE UNIFORM FIRE CODE STANDARD A-II-F-1
- INSULATED ABOVEGROUND TANK, PROTECTED TYPE
- TANK LISTED AS A FIRE RESISTANT SECONDARY CONTAINMENT TANK
- PROJECTILE RESISTANT (IF PUNCHED, STEEL THICKNESS MEETS REQUIREMENTS)

ANCHORAGE TANK
2723 RAMPART DRIVE
ANCHORAGE, ALASKA
(907) 272-3543

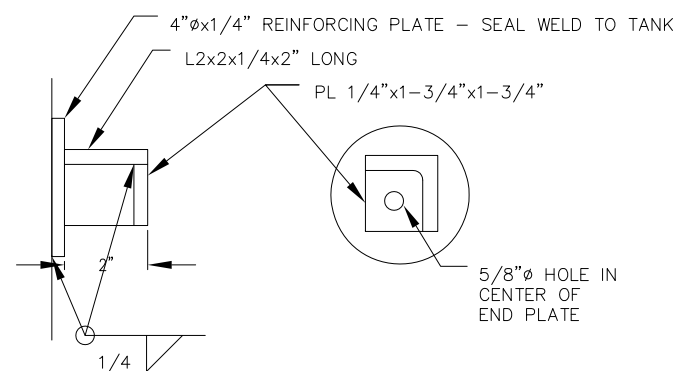
11,600 Gallon Fireguard
2-Hour Rated Storage Tank
Alaska Energy Authority
Tatitlek Bulk Fuel Upgrade

DRAWN:	TOM
DATE:	10/07/14
REVISED:	10/29/14
FILE NAME:	AEA14F12M
JOB NO:	2014-128
SCALE:	NTS
SHEET No. OF	1 REV 5 1



4 HOLES AT END OF SKID

SCALE: NTS



5 STRUT SUPPORT STAND OFF

SCALE: NTS

TANK FABRICATION SPECIFICATIONS

**** GENERAL ****

PROVIDE SHOP FABRICATED CARBON STEEL TANK OF TYPE, CONFIGURATION, DIMENSION, AND CAPACITY AS INDICATED ON THE TANK FABRICATION DRAWINGS.

TANK SHALL BE RATED FOR STORAGE OF GASOLINE AND DIESEL FUEL AT ATMOSPHERIC PRESSURE OVER A TEMPERATURE RANGE FROM -40F TO +100F. MANUFACTURE IN ACCORDANCE WITH U.L. 142 AND U.L. 2085 AND PROVIDE WITH LABELS.

PROVIDE ALL ACCESSORIES, ATTACHMENTS, LADDERS, CATWALKS, SUPPORTS, AND FASTENERS AS INDICATED ON DRAWINGS. ALL FINAL BOLTED CONNECTIONS TO BE MADE IN FIELD. PROVIDE ALL FASTENERS AND HARDWARE REQUIRED AND VERIFY FIT.

LABEL FACES AND ENDS OF TANKS AS INDICATED ON DRAWINGS. LABEL ALL OPENINGS ON TOP OF TANKS WITH MINIMUM 3" HIGH LETTERS INDICATING FUNCTION AS LISTED IN PARENTHESES ON TANK DRAWINGS. PROVIDE PERMANENT BLACK VINYL LETTERS OR STENCIL WITH BLACK POLYURETHANE PAINT.

**** HORIZONTAL TANK CONSTRUCTION ****

TANK SHELL JOINTS TO BE FULL PENETRATION BUTT WELDS, U.L. 142 FIGURE 6.1 #2. HEAD TO SHELL JOINTS TO BE SINGLE WELDED FULL FILLET LAP JOINTS, U.L. 142 FIGURE 6.2 #4 AS SHOWN BELOW.

PROVIDE WITH INTEGRAL STEEL SADDLE AND SKID FOUNDATION. SADDLES TO BE SEAL WELDED TO TANK - BOLT ON OR STRAP ON SADDLES WILL NOT BE ACCEPTED. PROVIDE MINIMUM 8" DEPTH STEEL "I-BEAM" SKID FOUNDATION OF MINIMUM 35# WEIGHT. SKIDS TO EXTEND 24" BEYOND EACH END OF TANK AND BE PROVIDED WITH 4" DIAMETER SCHEDULE 80 STEEL PIPE TOWBAR AT EACH END. CUT ENDS OF SKIDS AT 45 DEGREE ANGLE AND CAP END WITH PLATE OF WIDTH TO MATCH BEAM FLANGE. COMBINATION SADDLE AND SKID FOUNDATION TO BE DESIGNED TO LIMIT HEIGHT OF TANK BOTTOM TO 8" MAXIMUM ABOVE BOTTOM OF SKIDS AND TO ALLOW DRAGGING OF THE TANK AND LIFTING FROM EITHER END.

PROVIDE GROUNDING LUGS AT OPPOSITE CORNERS OF THE SKID.

**** OPENINGS AND ATTACHMENTS ****

PROVIDE WITH ALL OPENINGS AND ATTACHMENTS INDICATED. OPENINGS INDICATED AS FLANGES SHALL BE ANSI 150# PATTERN FLANGES WITH RAISED FACE. OPENINGS INDICATED AS FIREGUARD FITTINGS SHALL BE FEMALE PIPE THREAD. FLANGES AND NOZZLES SHALL EXTEND BEYOND TANK SHELL 4" MINIMUM OR AS DIMENSIONED. MANHOLES SHALL BE 5/16" STEEL LID (SINGLE PUNCH), 1/4" MILD STEEL RING WITH 7" RISER HEIGHT, NOMINAL SIZE AS INDICATED.

INSTALL ALL FLANGES, NOZZLES, AND FIREGUARD FITTINGS PLUM, LEVEL AND SQUARE TO THE MAIN AXIS OF THE TANK IN ALL THREE PLANES. VERIFY BUNG ORIENTATION WITH PIPE NIPPLE. INSTALL FLANGES WITH BOLT PATTERN SQUARE TO TANK AXES. PIPING CONNECTIONS MORE THAN ONE DEGREE OUT OF ALIGNMENT SHALL BE CUT OUT AND RE-INSTALLED. VERIFY ALIGNMENT PRIOR TO PAINTING.

ATTACH ALL COMPONENTS PERMANENTLY WELDED TO THE TANKS INCLUDING STAND-OFFS. PROVIDE REINFORCING PLATES ON ALL STAND-OFFS. SEAL WELD ALL NON-STRUCTURAL SEAMS, AND ROUND CORNERS AND SHARP EDGES PRIOR TO SANDBLASTING AND PAINTING. REMOVE ALL DETACHABLE COMPONENTS PRIOR TO SANDBLASTING TANKS.

PROVIDE WITH LADDER AND CATWALK AS SHOWN ON THE DRAWINGS. SHOP FABRICATE LADDER AND CATWALK; VERIFY FIT; REMOVE; SANDBLAST ALL FABRICATIONS AND PAINT AS SPECIFIED; AND BAND TO PALLETS FOR SHIPPING. FURNISH WITH ALL FASTENERS REQUIRED FOR FIELD INSTALLATION.

**** PAINTING ****

TANK, SADDLES, SKIDS, STANDOFFS, LADDER, AND CATWALK - SANDBLAST TANK AND ALL WELDED ATTACHMENTS IN ACCORDANCE WITH SSPC-SP-10. PRIME WITHIN 4 HOURS OF SANDBLASTING. PRIME WITH REINFORCED INORGANIC ZINC PRIMER, DEVCO CATHA-COAT 302H, COLOR GREEN, TO 3 MILS DRY FILM THICKNESS. COVER WITH ONE COAT OF EPOXY, DEVCO BAR-RUST 236, COLOR GRAY, TO 6 MILS DRY FILM THICKNESS. FINISH WITH ONE COAT OF ALIPHATIC URETHANE ENAMEL, DEVCO DEVTHANE 389, COLOR WHITE, TO 3 MILS DRY FILM THICKNESS. DO NOT PAINT GALVANIZED GRIP STRUT.

PROVIDE 2 GALLONS OF TOUCH-UP FOR EACH COATING (TOTAL OF 6 GALLONS). DO NOT ALLOW COATINGS TO FREEZE.

AEA MAY WISH TO INSPECT SURFACE PREPARATION AND COATING OPERATIONS.

SUBSTITUTIONS OF PAINT WILL NOT BE ACCEPTED. PERFORM ALL PAINTING IN ACCORDANCE WITH MANUFACTURER'S INSTRUCTIONS.

**** TRACTION ACROSS TANK TOP ****

APPLY 3M SAFETY WALK ADHESIVE TRACTION MATTING ALONG TANK TOP IN THE AREAS SHOWN ON THE DRAWING.

**** PREPARATION FOR SHIPPING ****

BOLT-ON COMPONENTS (LADDER, CATWALK, RAILINGS, PIPE SUPPORTS, ETC.) SHALL BE PACKAGED AND SHIPPED SEPARATELY FROM TANK. ALL THREADED TANK OPENINGS SHALL BE SEALED FOR SHIPPING WITH TIN PLUGS. ALL FLANGED OPENINGS SHALL BE BLIND FLANGED. PROVIDE A 1/2" MINIMUM DIAMETER OPENING TO ALLOW PRESSURE RELIEF DURING SHIPPING & STORAGE. TANK AND APPURTENANCES SHALL BE PACKAGED FOR OCEAN TRANSPORT. NOTIFY AEA A MINIMUM OF 2 WEEKS PRIOR TO SCHEDULED COMPLETION AS THEY MAY WISH TO INSPECT.

TANK WELD JOINTS

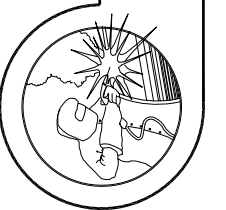
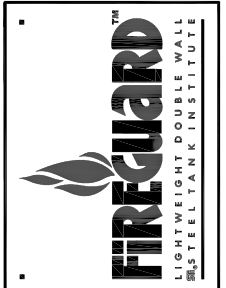
UL 142 FIGURE 6.2 NO.4
SINGLE WELDED FULL FILLET LAP JOINT



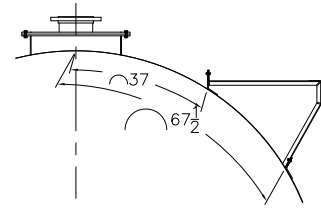
UL 142 FIGURE 6.1 NO.2
FULL PENETRATION BUTT WELD

11,600 Gallon Fireguard
2-Hour Rated Storage Tank
Alaska Energy Authority
Tatitlek Bulk Fuel Upgrade

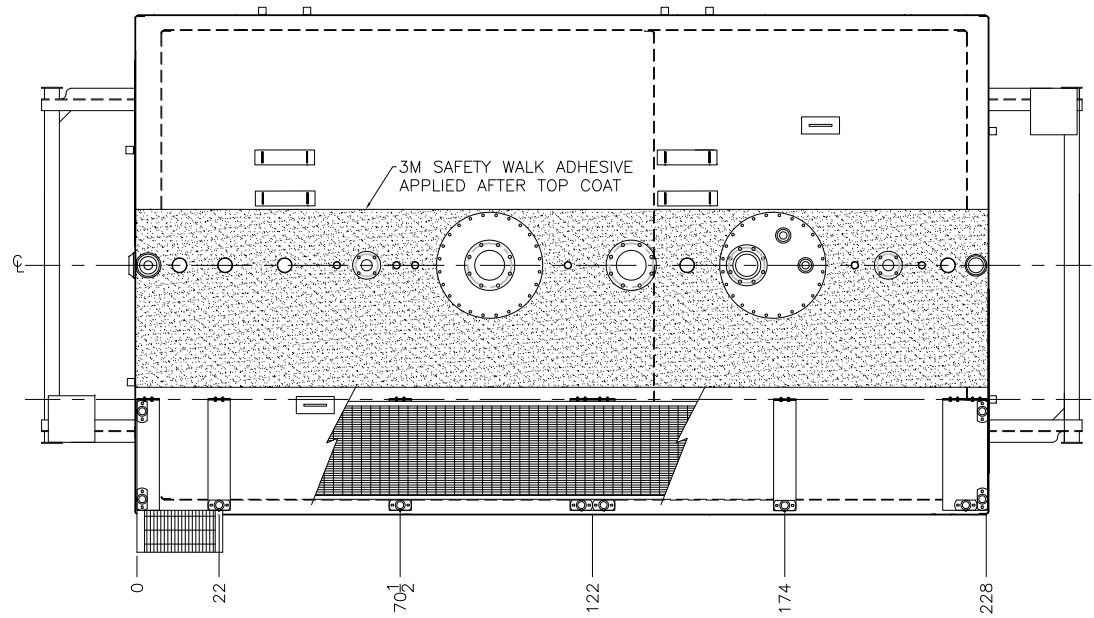
DRAWN:	TOM
DATE:	10/07/14
REVISED:	10/29/14
FILE NAME:	AEA14F12M
JOB NO:	2014-128
SCALE:	NTS
SHEET No. OF	2 5 REV 1



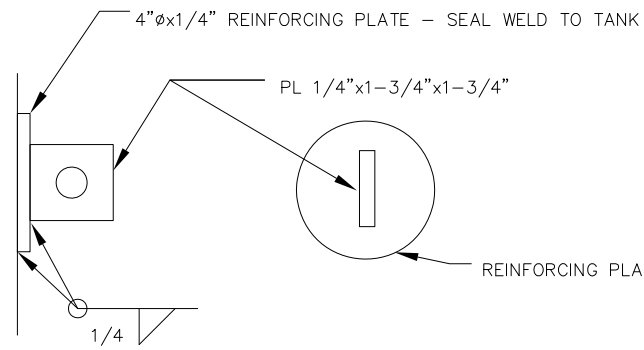
ANCHORAGE TANK
2723 RAMPART DRIVE
ANCHORAGE, ALASKA
(907) 272-3543



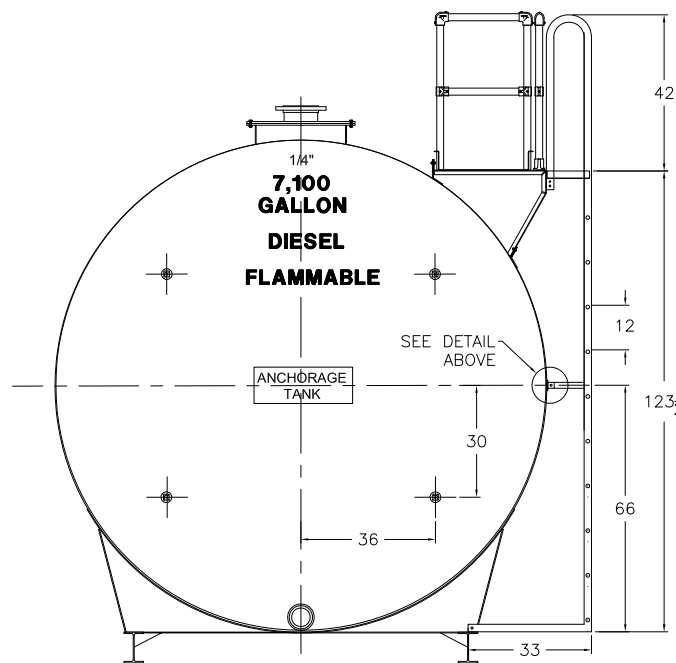
6 PLACEMET OF PLATFORM SUPPORTS
SCALE: NTS



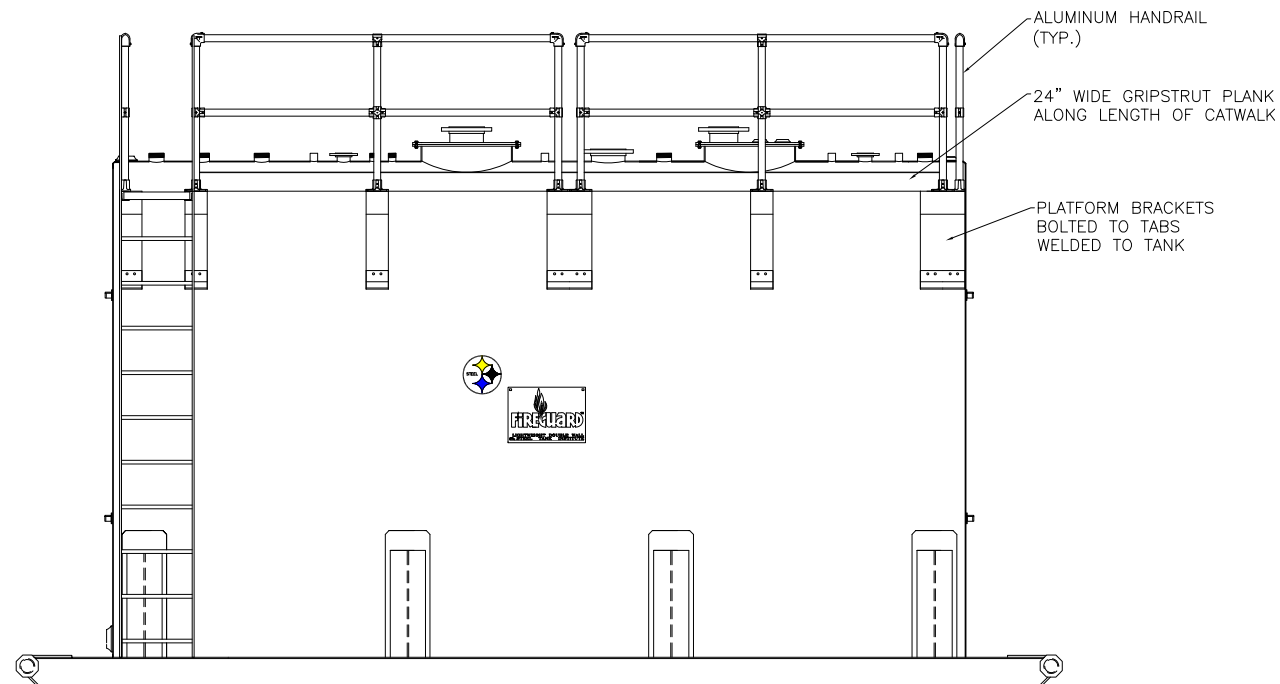
9 LADDER & CATWALK TOP VIEW
SCALE: NTS



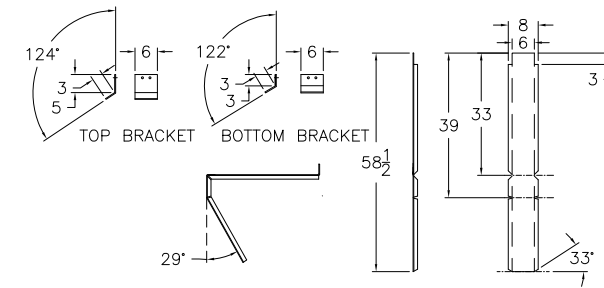
7 LADDER ATTACHMENT AT TANK MIDLINE
SCALE: NTS



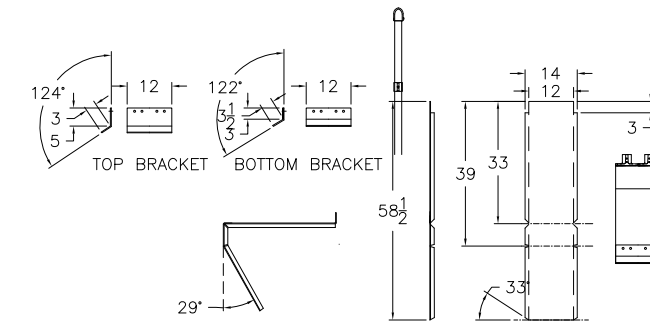
8 LADDER & CATWALK END VIEW
SCALE: NTS



10 LADDER & CATWALK SIDE VIEW
SCALE: NTS

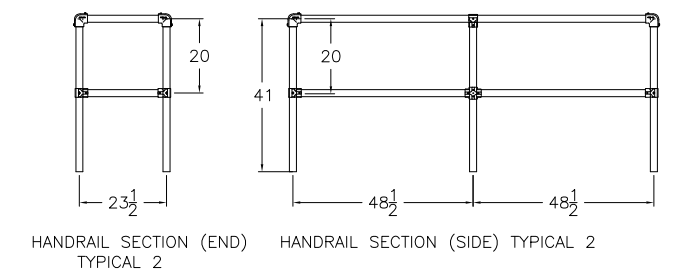


3/16" MATERIAL
4 EACH



3/16" MATERIAL
2 EACH

11 PLATFORM SUPPORT BRACKETS
SCALE: NTS



12 ALUMINUM CATWALK HANDRAILS
SCALE: NTS

ANCHORAGE TANK
2723 RAMPART DRIVE
ANCHORAGE, ALASKA
(907) 272-3543

FIREGUARD
LIGHTWEIGHT DOUBLE WALL
STEEL TANK INSTITUTE

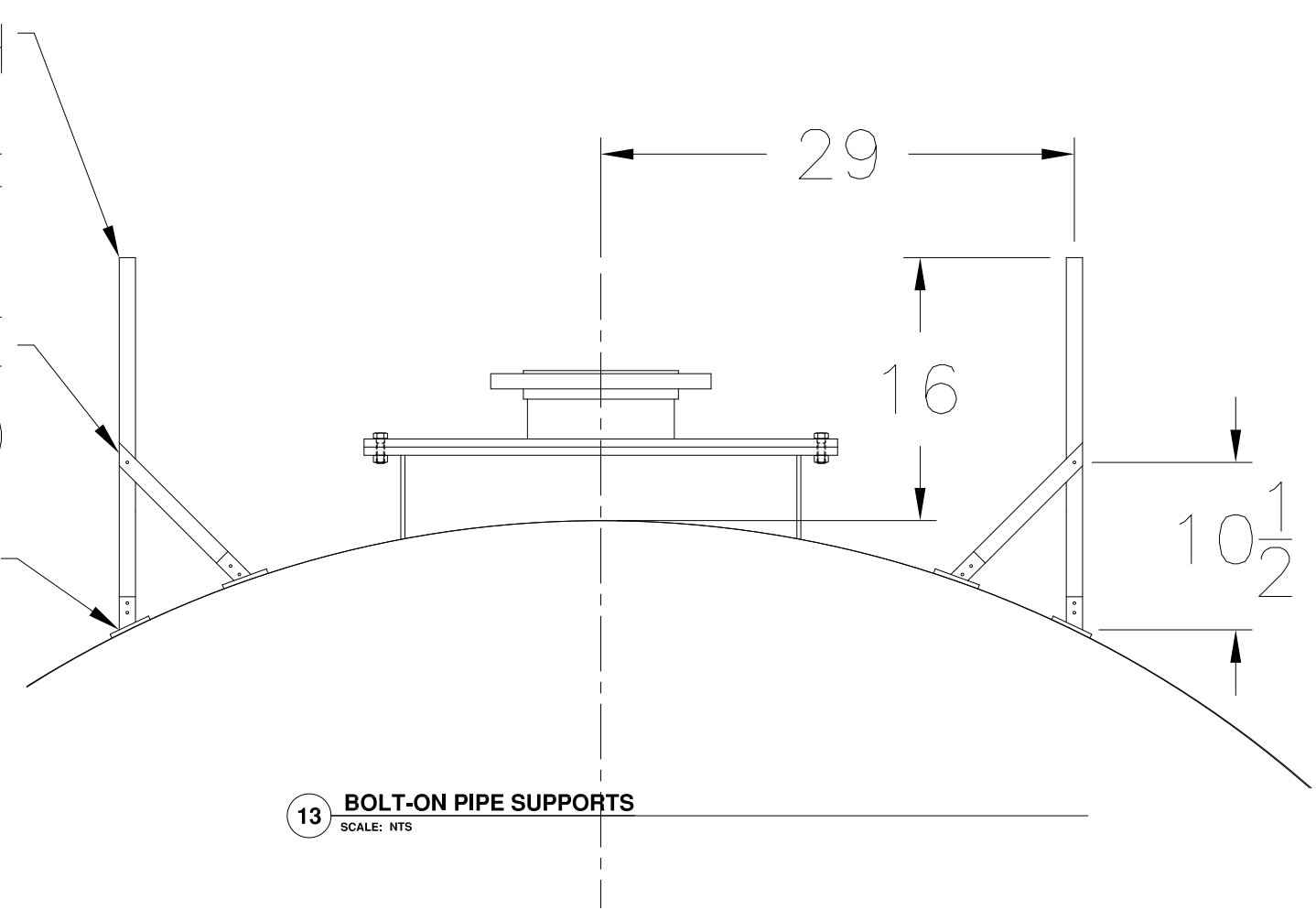
11,600 Gallon Fireguard
2-Hour Rated Storage Tank
Alaska Energy Authority
Tatitlek Bulk Fuel Upgrade

DRAWN:	TOM
DATE:	10/07/14
REVISED:	10/29/14
FILE NAME:	AEA14F12M
JOB NO:	2014-128
SCALE:	NTS
SHEET No.	3
OF	5
REV	1

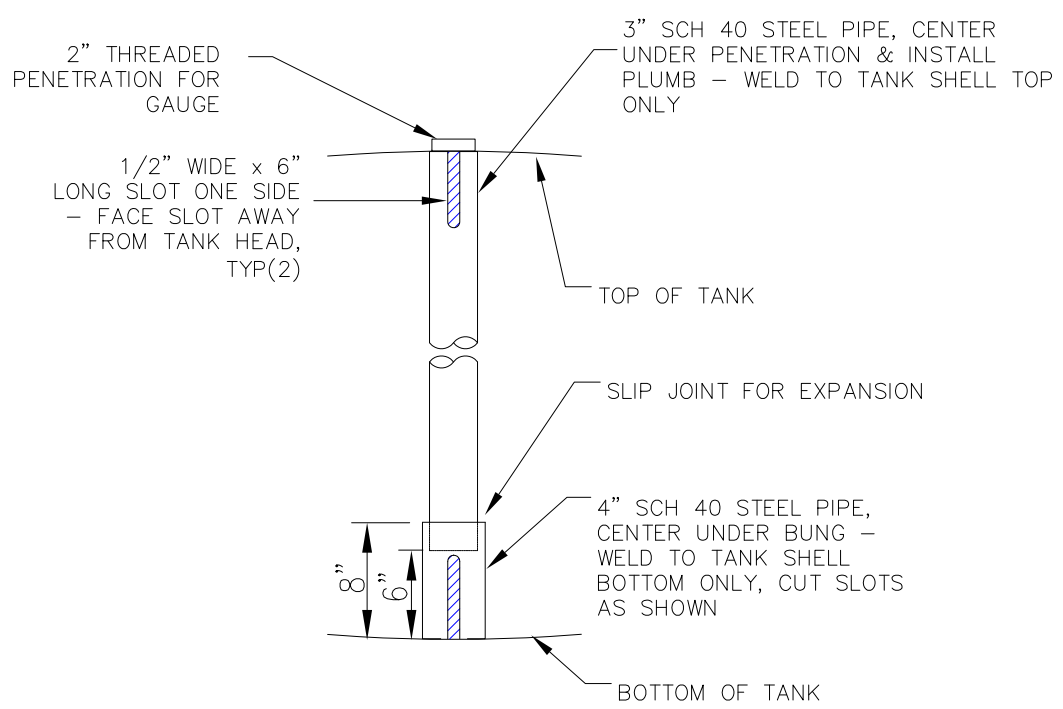
FB $1 \times \frac{1}{4}$ x REQ'D LENGTH
 1 EA PER VERTICAL
 ANGLE SUPPORT

$1 \times 1 \times \frac{1}{4}$ ANGLE
 (TYP. 2 PER SUPPORT)

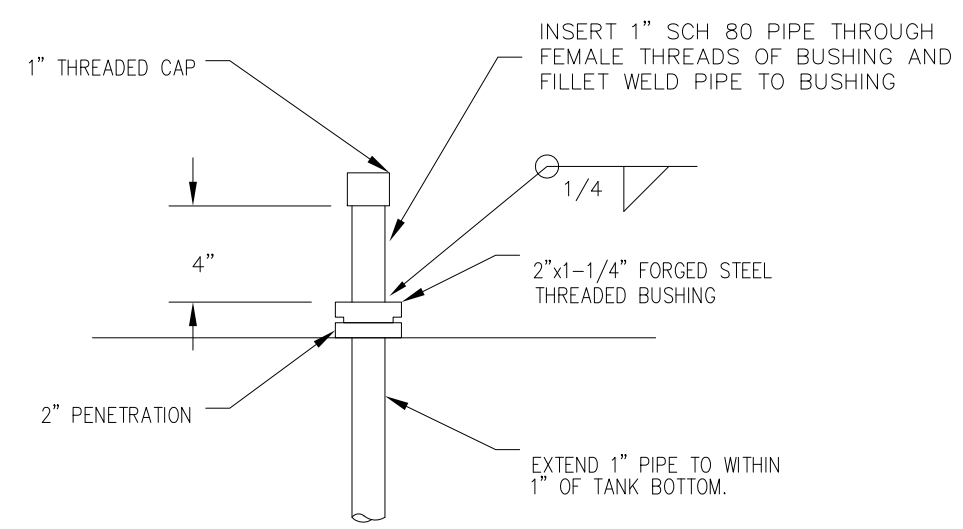
FB $\frac{1}{4} \times 1 \times \frac{1}{4}$
 W/ 2 EA $\frac{5}{8}$ " \varnothing HOLES
 WELD TO DOUBLER PLATE
 (TYP. 2 PER SUPPORT)



13 BOLT-ON PIPE SUPPORTS
 SCALE: NTS



14 CLOCK GAUGE STILLING WELL
 SCALE: NTS



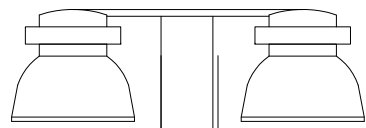
15 TYPICAL WATER DRAW
 SCALE: NTS

ANCHORAGE TANK

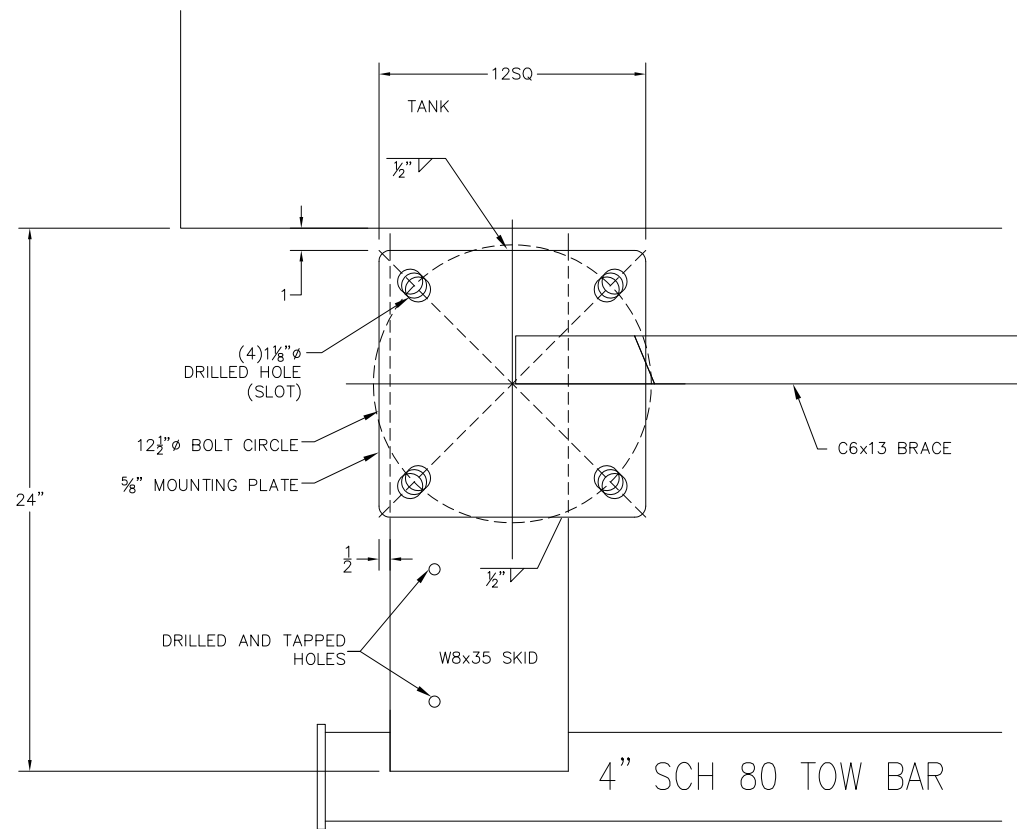
2723 RAMPART DRIVE
 ANCHORAGE, ALASKA
 (907) 272-3543

11,600 Gallon Fireguard
 2-Hour Rated Storage Tank
 Alaska Energy Authority
 Tatitlek Bulk Fuel Upgrade

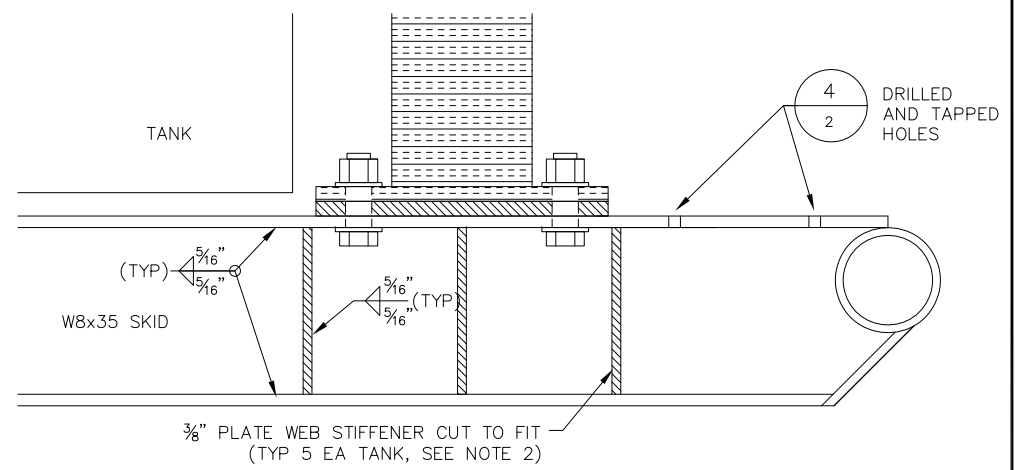
DRAWN:	TOM
DATE:	10/07/14
REVISED:	10/29/14
FILE NAME:	AEA14F12M
JOB NO:	2014-128
SCALE:	NTS
SHEET No.	4 REV
OF	5 1



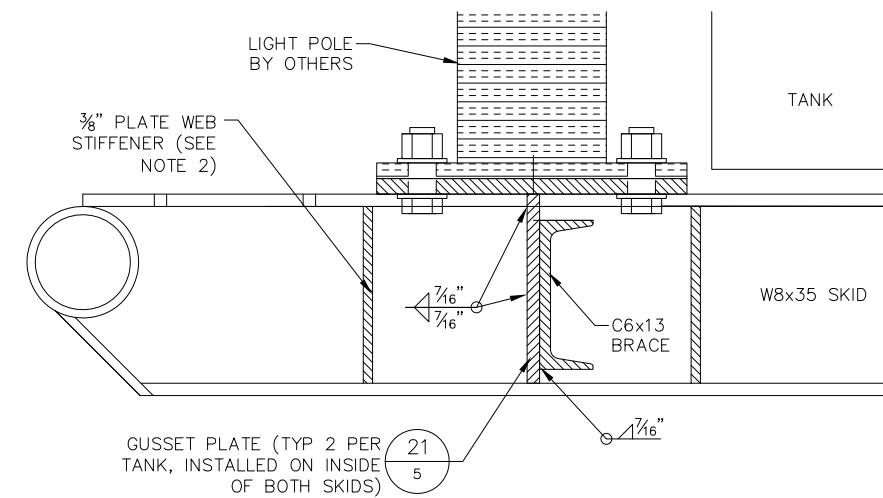
LIGHT POLE
(BY OTHERS)



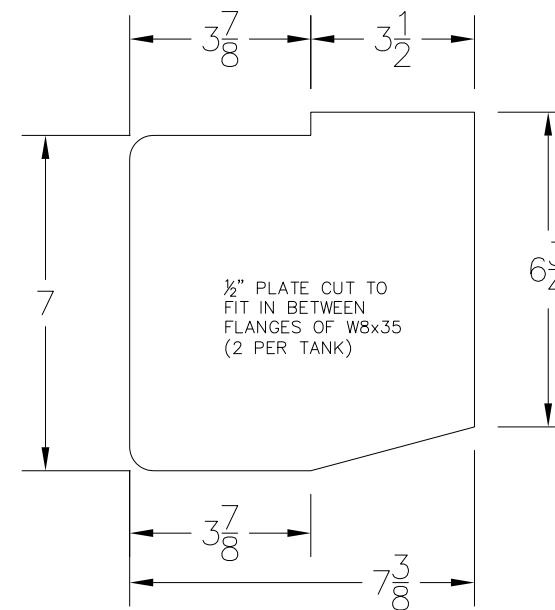
17 LIGHT POLE BASE PLATE TOP VIEW
SCALE: NTS



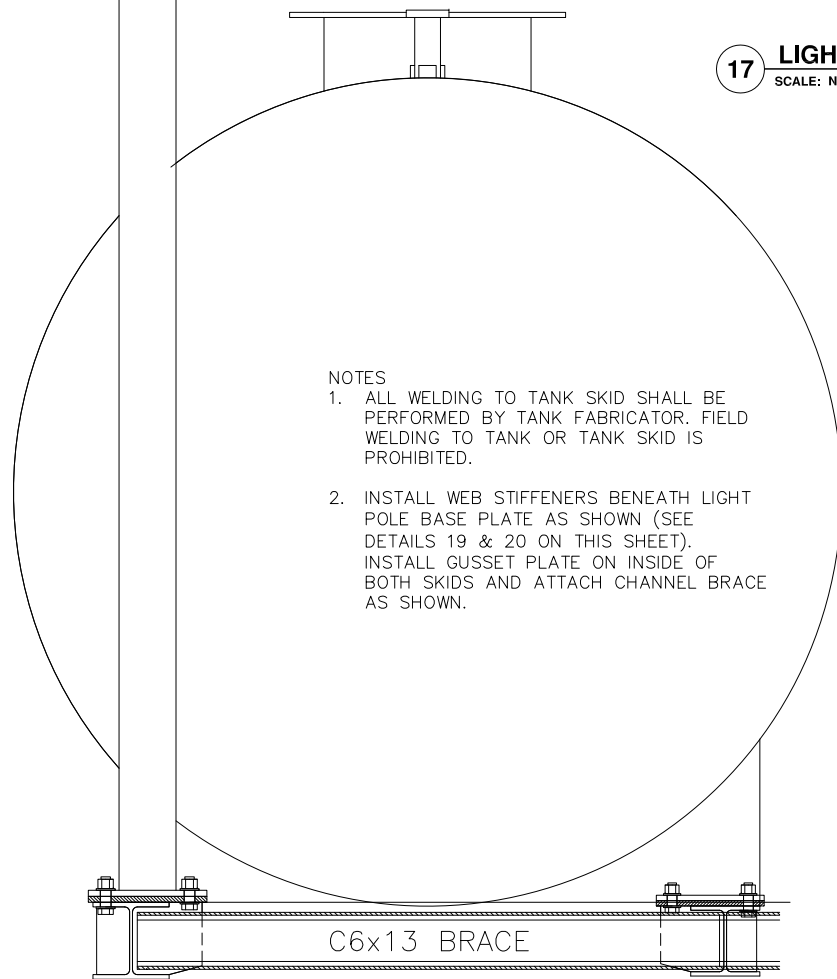
19 LIGHT POLE BASE - OUTSIDE SKID VIEW
SCALE: NTS



20 LIGHT POLE BASE - INSIDE SKID VIEW
SCALE: NTS



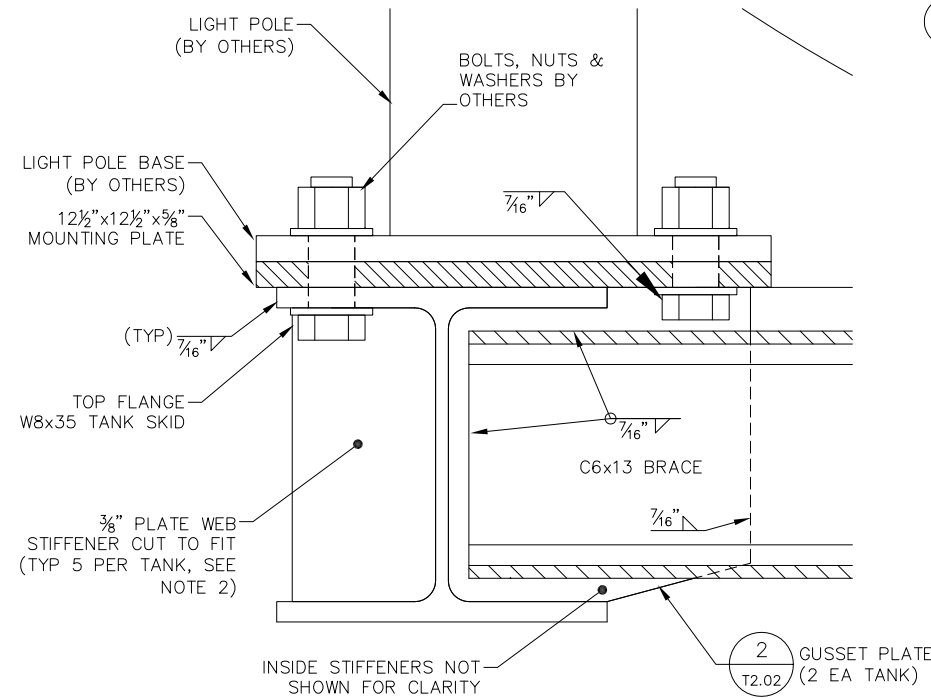
21 GUSSET PLATE CUT DIAGRAM
SCALE: NTS



16 TANK MOUNT LIGHT POLE
SCALE: NTS

NOTES

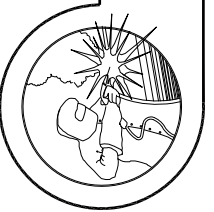
- ALL WELDING TO TANK SKID SHALL BE PERFORMED BY TANK FABRICATOR. FIELD WELDING TO TANK OR TANK SKID IS PROHIBITED.
- INSTALL WEB STIFFENERS BENEATH LIGHT POLE BASE PLATE AS SHOWN (SEE DETAILS 19 & 20 ON THIS SHEET). INSTALL GUSSET PLATE ON INSIDE OF BOTH SKIDS AND ATTACH CHANNEL BRACE AS SHOWN.



18 CHANNEL BRACE CONNECTION
SCALE: NTS

ANCHORAGE TANK

2723 RAMPART DRIVE
ANCHORAGE, ALASKA
(907) 272-3543



FIREGUARD
LIGHTWEIGHT DOUBLE WALL
STEEL TANK INSTITUTE

11,600 Gallon Fireguard
2-Hour Rated Storage Tank
Alaska Energy Authority
Tatitlek Bulk Fuel Upgrade

DRAWN:	TOM
DATE:	10/07/14
REVISED:	10/29/14
FILE NAME:	AEA14F12M
JOB NO:	2014-128
SCALE:	NTS
SHEET No.	5
OF	5
REV	1