

**PART VIII  
PROJECT DRAWINGS**

# PROJECT PLANS FOR TWIN HARTE COMMUNITY SERVICES DISTRICT'S WATER TANK #2 RECOATING AND UPGRADE PROJECT



## DRAWING TABLE OF CONTENTS

1. COVER
2. MG #2 PARTIAL PLAN
3. ROOF STRUCTURE
4. ROOF FALL PROTECTION
5. LADDER DOOR & ROOF HATCH
6. ROOF VENT

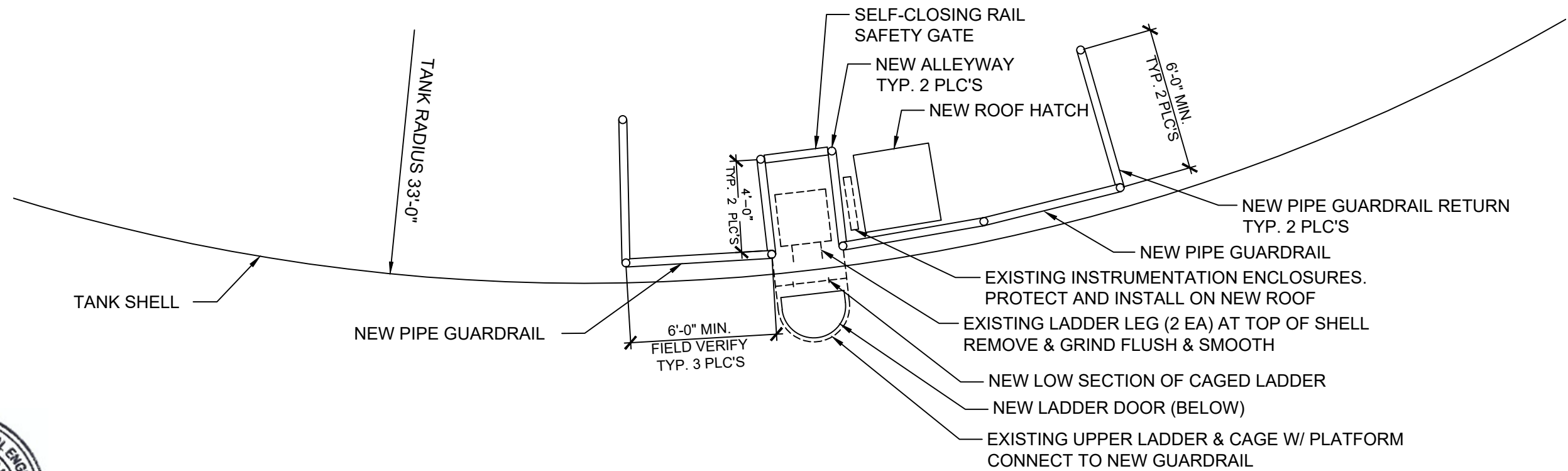


ADVANTAGE TECHNICAL SERVICES, INC.  
805-595-2282  
ATS-SLO.COM

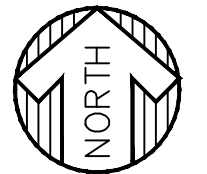


DRAWING NOTES:




1. PROVIDE REPLACEMENT ROOF AND INSTALL NEW ROOF APPURTENANCES AS REQUIRED (CONTRACTOR TO FIELD VERIFY RADIUS).
2. INSTALL NEW ROOF HATCH AND ROOF GUARDRAIL PURSUANT TO THESE PROJECT DOCUMENTS.
3. ALL COMPONENTS INCLUDING GUARDRAIL SHALL CONFORM TO THE OSHA CFR PART 1910. LENGTHS OF NEW GUARDRAIL ARE MINIMUM.
4. CONTRACTOR SHALL FIELD VERIFY ALL DIMENSIONS PRIOR TO FABRICATION.
5. WELD 2 FALL PROTECTION ANCHOR LUGS AT LOCATIONS SPECIFIED BY THE OWNERS REPRESENTATIVE. INSTALL CABLE LANYARDS PURSUANT TO THE SPECIAL PROVISIONS.

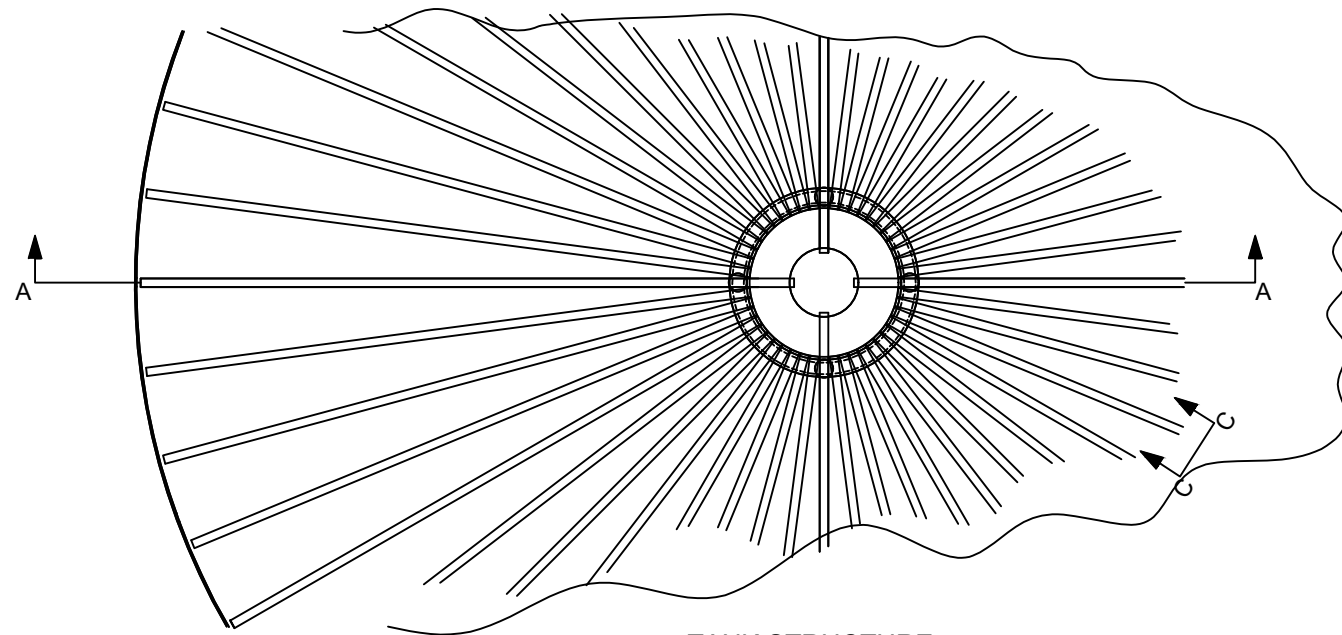


**EXISTING TANK PARTIAL PLAN VIEW**



Copyright © 2023 Advantage Technical Services, a California Corporation. All rights reserved

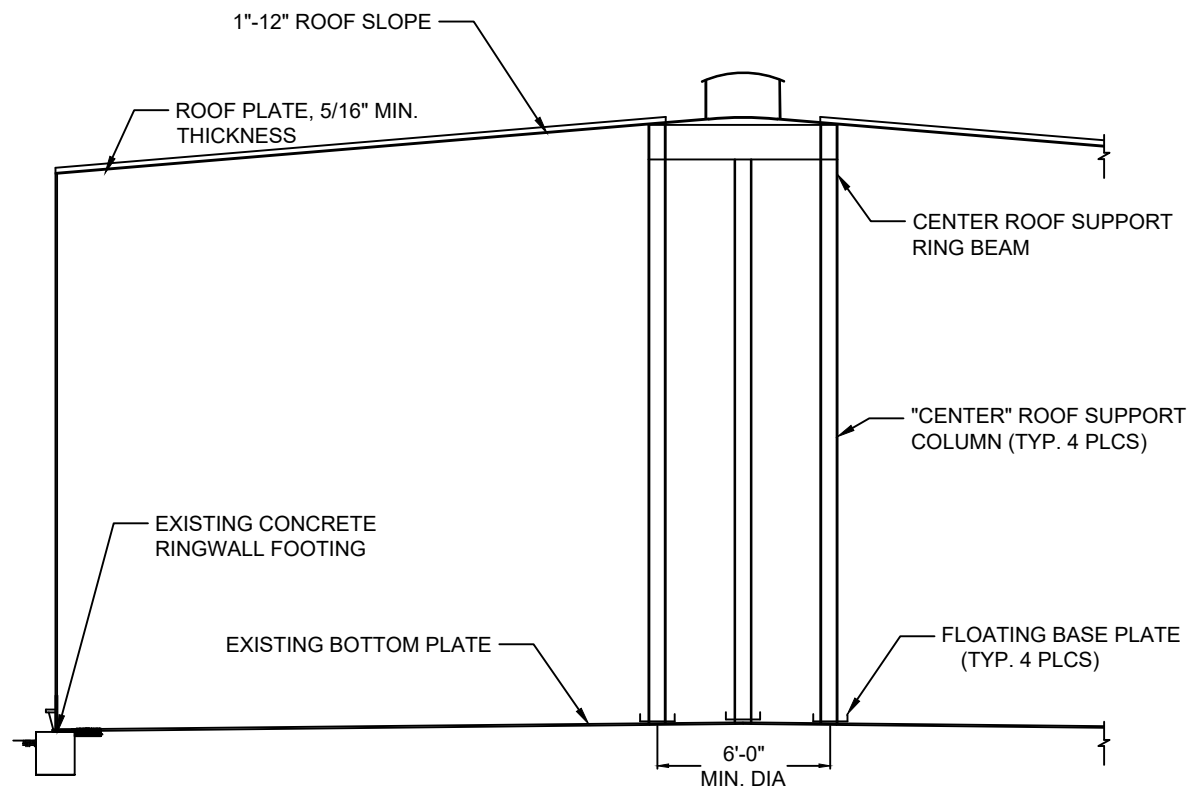
REVISIONS	DATE	 <b>ADVANTAGE TECHNICAL SERVICES, INC.</b> 805-595-2282 ATS-SLO.COM	DESIGNED BY:	DRAWN BY:	CHECKED BY:	RECOMMENDED:	 TWAIN HARTE COMMUNITY SERVICES DISTRICT WATER TANK #2 RECOATING & UPGRADE PROJECT	SHEET:
	00/00/00		WB	GM	JB	OPERATIONS MGR.		2 OF 6
			PREPARED UNDER THE DIRECTION OF:			APPROVED:	MG #2 PARTIAL PLAN	SCALE:
			 WILLIAM BELLIS P.E.			TOM TROTT, GENERAL MGR.		NTS



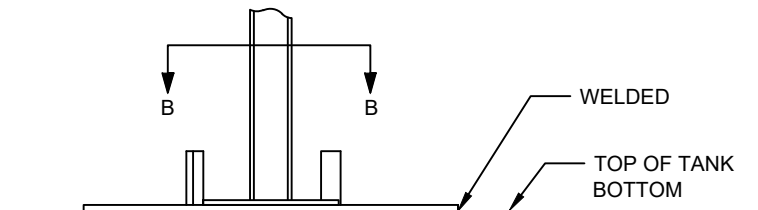
TANK STRUCTURE  
PARTIAL PLAN

DRAWING NOTES:

1. REMOVE AND RECYCLE EXISTING ROOF PLATE, RAFTERS, RAFTER CLIPS, CENTER SUPPORT AND BASE PLATES.
2. "CENTER" ROOF SYSTEM COLUMNS SHALL BE ROUND HSS 5/16" MINIMUM WALL THICKNESS AND THE MINIMUM QUANTITY SHALL BE 4.
3. CENTER ROOF SUPPORT RING BEAM SHALL BE 5/16" MINIMUM THICKNESS, RECTANGULAR CROSS SECTION AND 6" DIAMETER (MIN.) AT THE CENTER LINE.
4. THE ROOF DESIGN SHALL PROVIDE A SYSTEM FOR CONTROL OF SHELL ROUNDNESS DURING ERECTION SUCH AS ERECTION BOLTS OR OTHER METHOD USING POSITIVE STOPS.
5. COLUMN BASE PLATES SHALL BE THE "FLOATING TYPE" (DESIGNED TO PREVENT THE COLUMNS FROM BEING LOADED DOWNWARD BY THE TANK BOTTOM).
6. BASE PLATES SHALL BE SEAL WELDED TO THE TANK BOTTOM TO PREVENT AN INACCESSIBLE AREA OF AREA OF BOTTOM PLATE.
7. NEW ROOF SHALL BE DESIGNED AND CONSTRUCTED W/INTEGRAL FORMED CHANNEL "RAFTERS" ON THE EXTERIOR.
8. ALL AREAS ON THE TANK INTERIOR THAT ARE INACCESSIBLE FOR COATING SHALL BE SEAL WELDED.
9. ROOF SECTIONS SHALL NOT BE PRIME COATED UNTIL AFTER FORMING.
10. ALL PLATE EDGES SHALL BE FINISHED TO A MIN. RADIUS OF 1/16" PRIOR TO ABRASIVE PREPARATION.

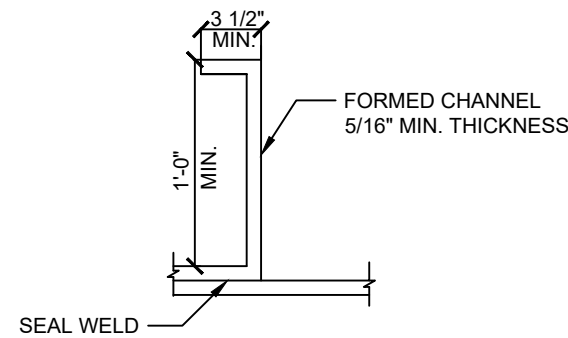


PARTIAL SECTION VIEW A-A

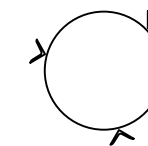


FLOATING BASE PLATE

(BASE PLATE THICKNESS AND DIMENSIONS BY CONTRACTOR'S ENGINEER)






FORMED ROOF SECTION C-C



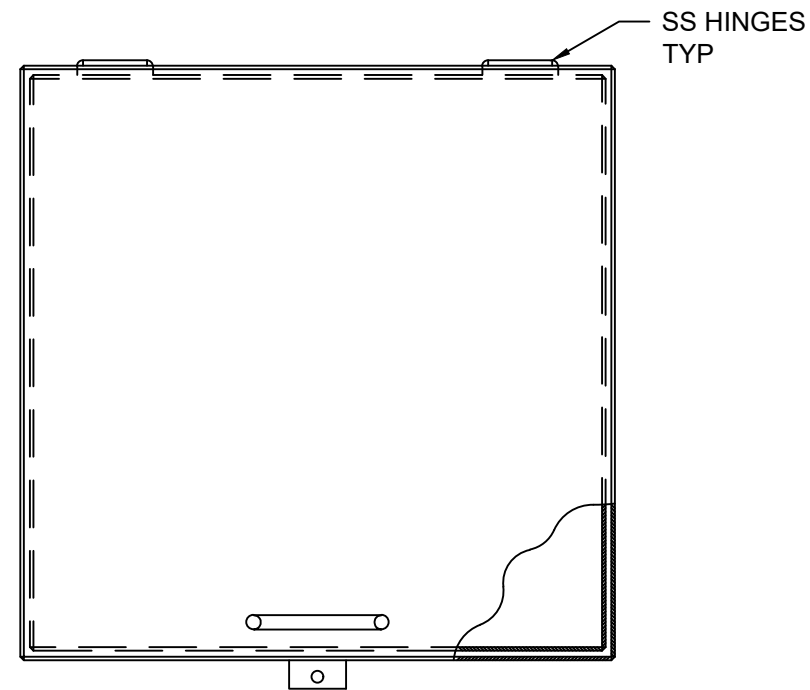
SECTION VIEW B-B



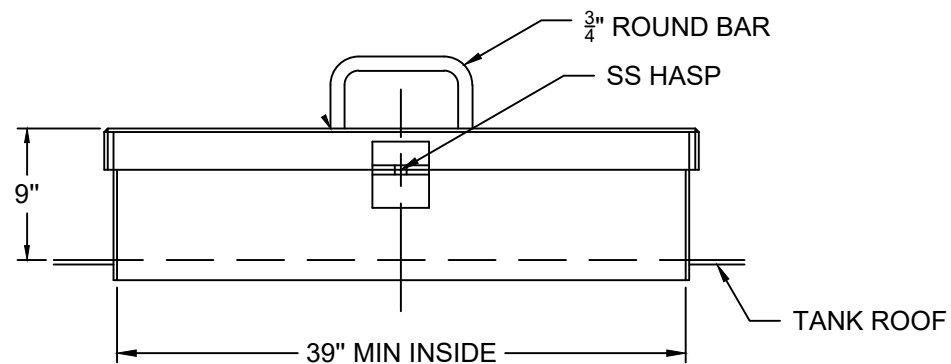
Copyright © 2023 Advantage Technical Services, a California Corporation. All rights reserved

REVISIONS	DATE	 <b>ADVANTAGE TECHNICAL SERVICES, INC.</b> 805-595-2282 ATS-SLO.COM	DESIGNED BY:	DRAWN BY:	CHECKED BY:	RECOMMENDED:	 <b>TWAIN HARTE COMMUNITY SERVICES DISTRICT</b> WATER TANK #2 RECOATING & UPGRADE PROJECT	SHEET:
	00/00/00		WB	GM	JB	OPERATIONS MGR. _____ DATE _____		3 OF 6
			PREPARED UNDER THE DIRECTION OF:			APPROVED:	<b>ROOF STRUCTURE</b>	SCALE:
			 WILLIAM BELLIS P.E.			TOM TROTT, GENERAL MGR. _____ DATE _____		NTS

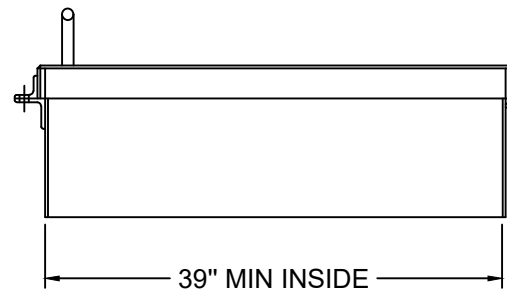




TOP VIEW

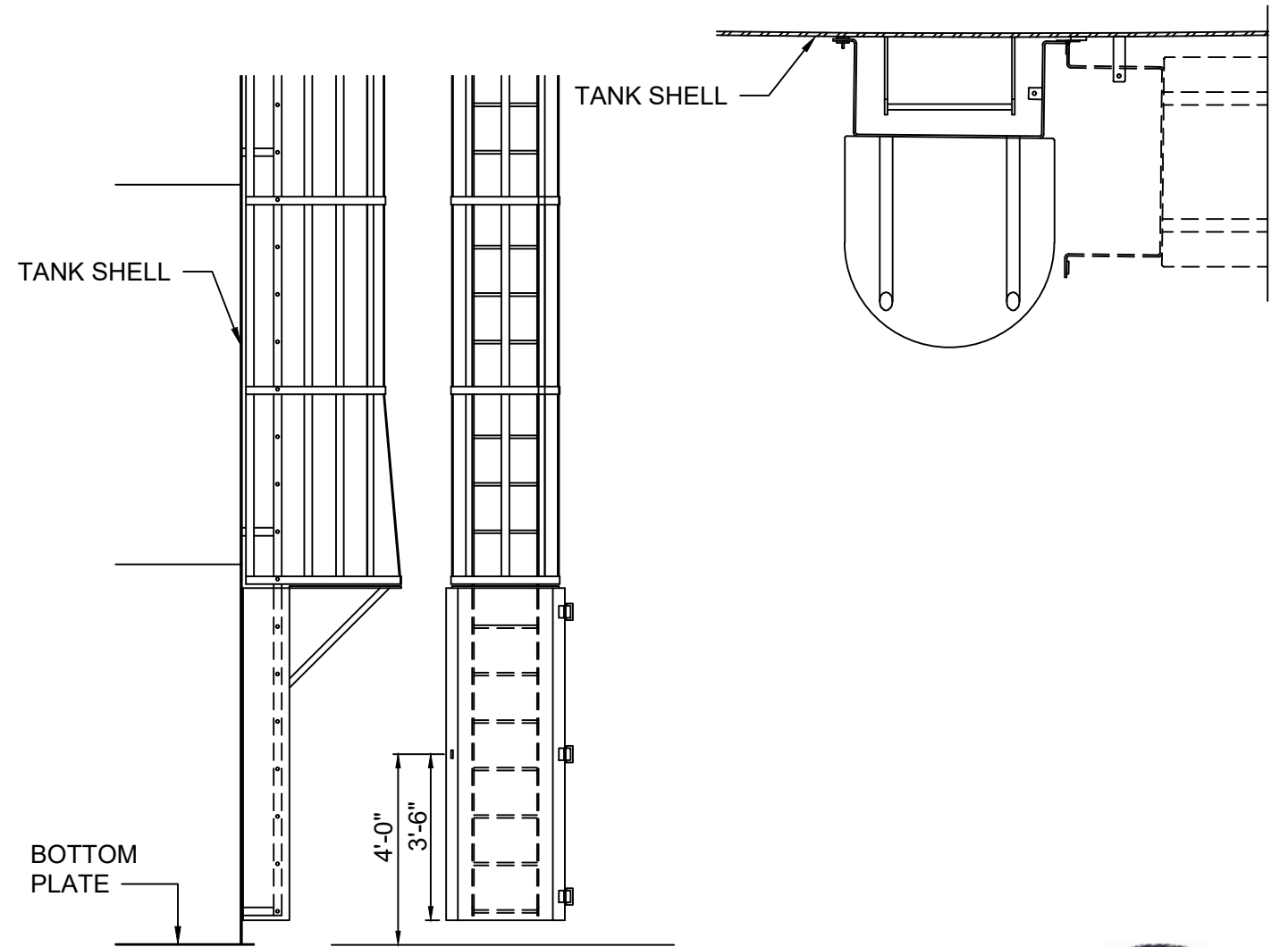


FRONT VIEW



SIDE VIEW



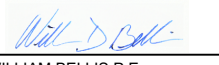
ROOF HATCH



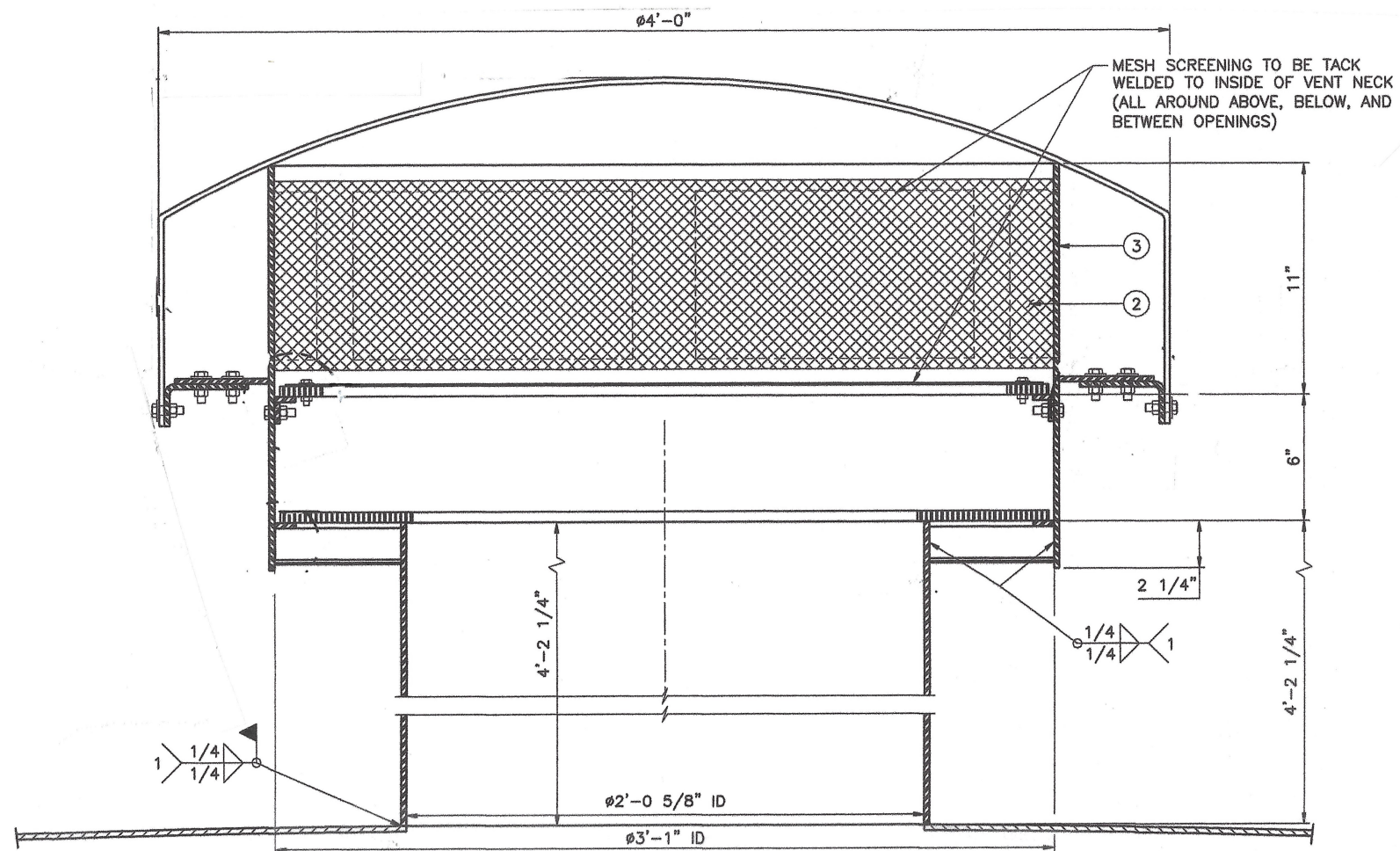
LADDER DOOR FOR CAGED LADDER



Copyright © 2023 Advantage Technical Services, a California Corporation. All rights reserved



REVISIONS	DATE	 ADVANTAGE TECHNICAL SERVICES, INC. 805-595-2282 ATS-SLO.COM	DESIGNED BY:	DRAWN BY:	CHECKED BY:	RECOMMENDED:	 TWAIN HARTE COMMUNITY SERVICES DISTRICT WATER TANK #2 RECOATING & UPGRADE PROJECT	SHEET:
	00/00/00		WB	GM	JB	OPERATIONS MGR. _____ DATE _____		5 OF 6
			PREPARED UNDER THE DIRECTION OF:		2/27/2023	APPROVED:	LADDER DOOR & ROOF HATCH	SCALE:
			 WILLIAM BELLIS P.E.		DATE	TOM TROTT, GENERAL MGR. _____ DATE _____		NTS





## 24" PRESSURE/VACUUM ROOF VENT

Copyright © 2023 Advantage Technical Services, a California Corporation. All rights reserved

REVISIONS	DATE	 <b>ADVANTAGE TECHNICAL SERVICES, INC.</b> 805-595-2282 ATS-SLO.COM	DESIGNED BY: <b>WB</b>	DRAWN BY: <b>REV TO GM</b>	CHECKED BY: <b>JB</b>	RECOMMENDED: OPERATIONS MGR. _____ DATE _____	 <b>TWAIN HARTE</b> PARKS & RECREATION FIRE WATER SAFETY COMMUNITY SERVICES DISTRICT	TWAIN HARTE COMMUNITY SERVICES DISTRICT WATER TANK #2 RECOATING & UPGRADE PROJECT	SHEET: <u>6</u> OF <u>6</u>
	00/00/00		PREPARED UNDER THE DIRECTION OF: <i>William Bellis</i> <b>2/27/23</b> WILLIAM BELLIS P.E. DATE			APPROVED: TOM TROTT, GENERAL MGR. _____ DATE _____		<b>24" PRESSURE VACUUM ROOF VENT</b>	SCALE: NTS