

**1**  
SO ISOMETRIC VIEW - New Tank & Modified Catwalk  
SCALE: 1:32

**DESIGN LOADS:**

DESIGN LOADS ARE UNFACTORED UNLESS NOTED OTHERWISE:

- DEAD LOAD: SELF-WEIGHT
- LIVE (OCCUPANCY) LOAD: 75 PSF [3.6 kPa]
- GUARD LOADING: AS PER OBC 2012 4.1.5.14(1)

ANCHOR POINT: (1) WORKER = 8kN

**STEEL NOTES:**

1. ALL DIMENSIONS ARE IN INCHES UNLESS NOTED OTHERWISE.
2. ALL BOLTS SHALL BE 3/4" DIAMETER A325 STRUCTURAL BOLTS UNLESS OTHERWISE NOTED.
3. WHERE NO WELD SYMBOL IS SHOWN, ASSUME FILLET ALL AROUND, WITH SIZE EQUAL TO THE LESSER OF 1/4" OR THE MINIMUM THICKNESS OF ADJOINING FACES, UNLESS NOTED.
4. STRUCTURAL STEEL PLATES, ANGLES, AND CHANNELS SHALL CONFORM TO CSA G40.21-300W, G40.21,-350W CLASS C FOR HSS AND W SECTIONS.
5. WELDING SHALL CONFORM TO THE REQUIREMENTS OF CSA STANDARDS W59 AND SHALL BE UNDERTAKEN BY A FABRICATOR AND ERECTOR FULLY APPROVED BY THE CANADIAN WELDING BUREAU TO THE REQUIREMENTS OF CSA STANDARDS W47, DIVISION 1 OR DIVISION 2.1.
6. FIELD VERIFY ALL DIMENSIONS PRIOR TO MANUFACTURING.
7. ALL STRUCTURAL STEEL TO BE FINISHED AS APPROVED BY THE CONTRACTOR/OWNER.

**2**  
SO ISOMETRIC VIEW (From Below) - New Tank & Modified Catwalk  
SCALE: 1:32

REV	BY	DATE	DESCRIPTION
1	ZR	2022-04-08	ISSUED FOR CONSTRUCTION
0	ZR	2022-03-02	ISSUED FOR REVIEW & COMMENT

**WADDELL ENGINEERING LTD.**  
 119 PINEBUSH RD, UNIT C  
 CAMBRIDGE, ON Phone: 519-267-6789  
 N1R 7J8 Fax: 1-866-388-9659  
 www.waddelleng.com info@waddelleng.com

ENGINEER STAMP

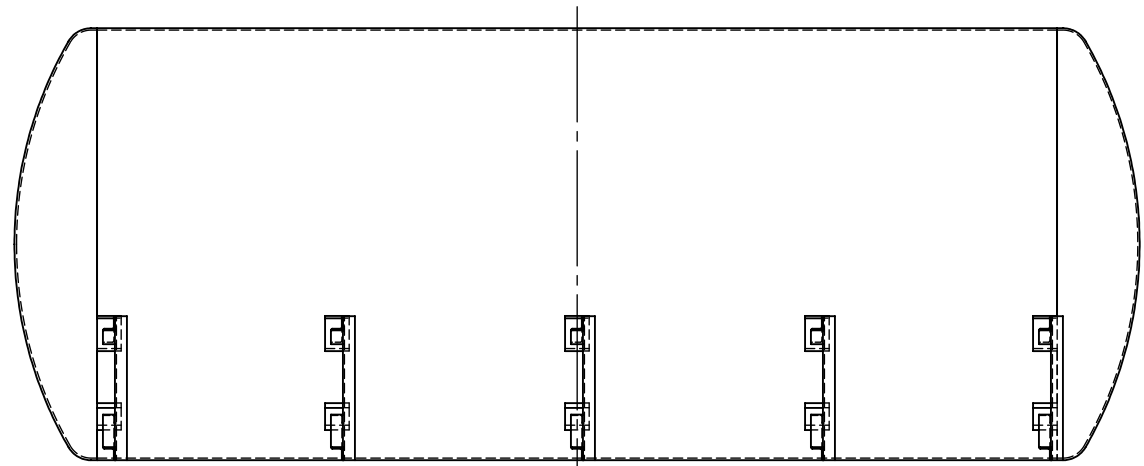


CLIENT:  
ArcelorMittal Long Products Canada

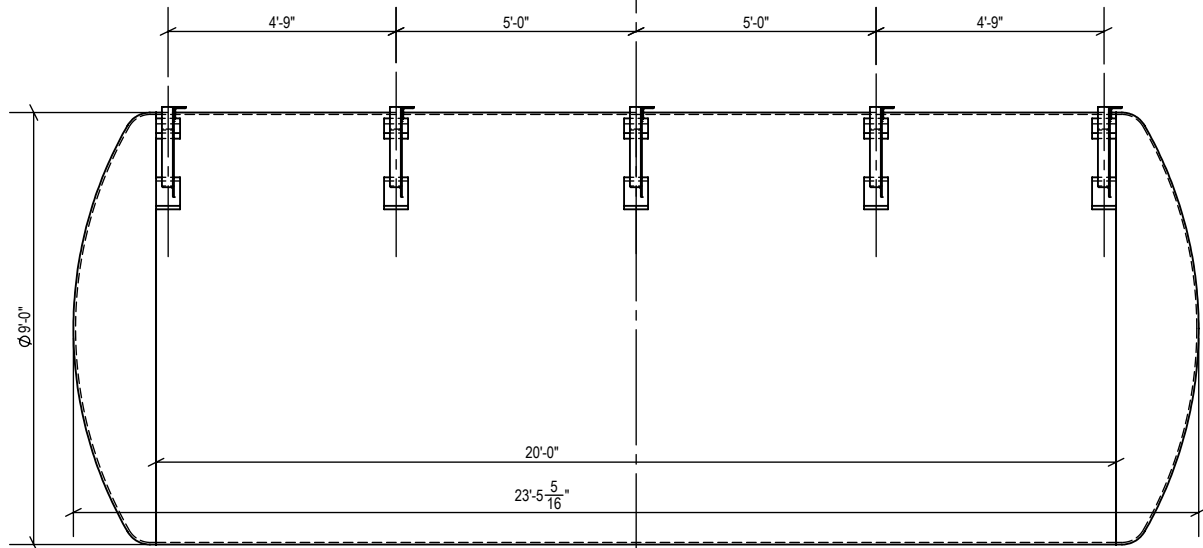
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Isometric Views

PROJECT:  
Acid Tank Catwalk Modifications  
690 Strathearne Ave N, Hamilton, ON

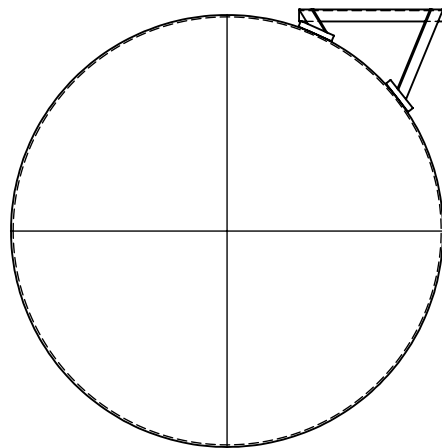
DRAWN BY: ZR	DATE: 2022-03-02
SCALE: As Noted	SHEET NO: 50
PROJECT NO: 22-02-048	



TOP VIEW

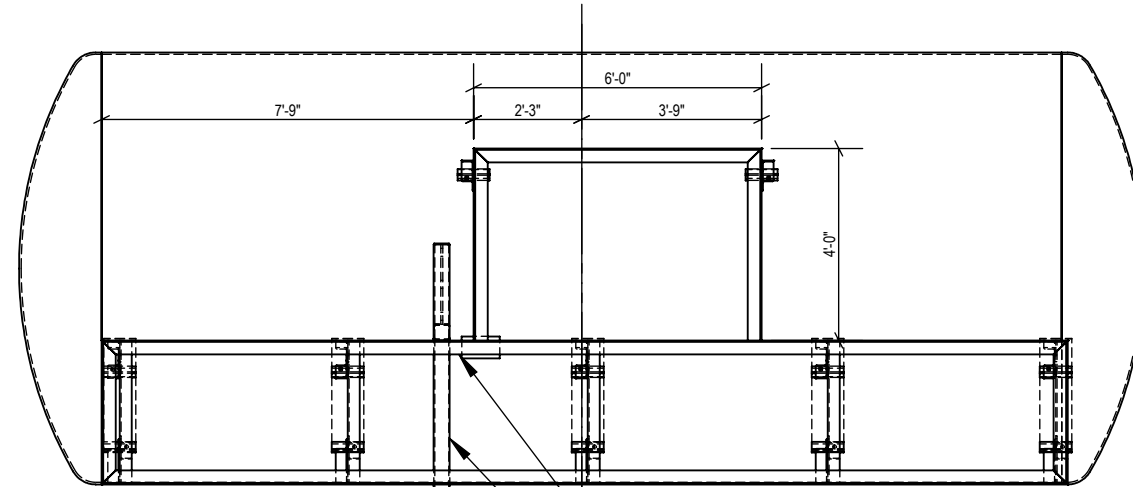


SIDE ELEVATION VIEW

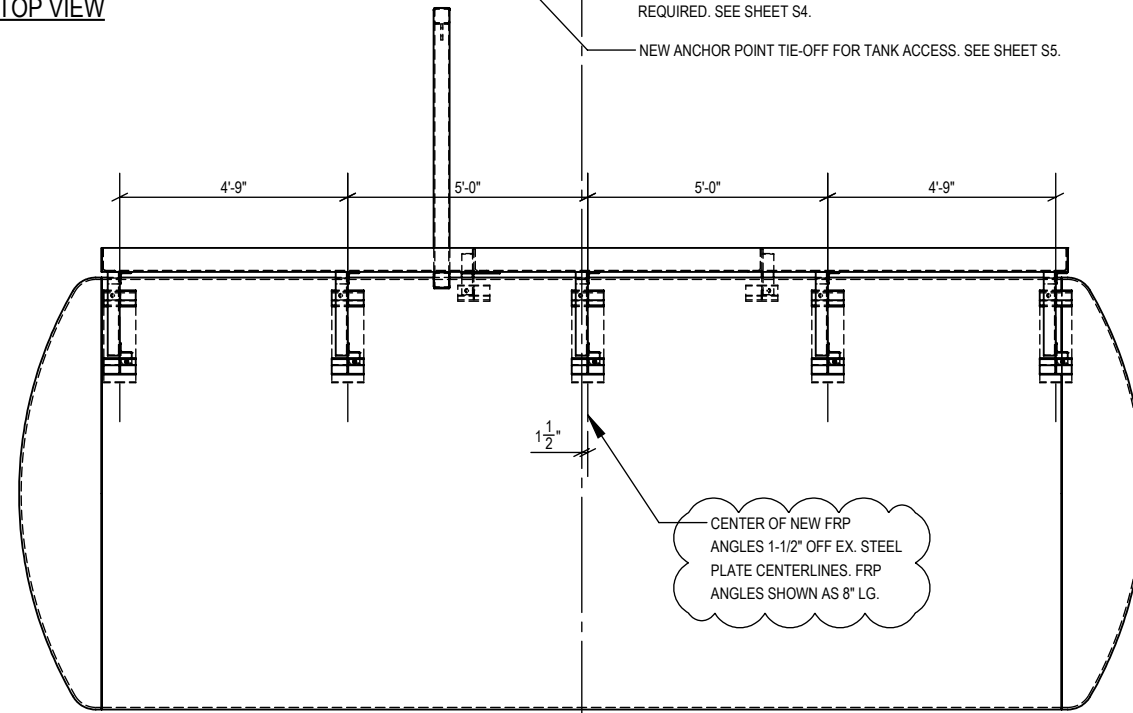


END ELEVATION VIEW

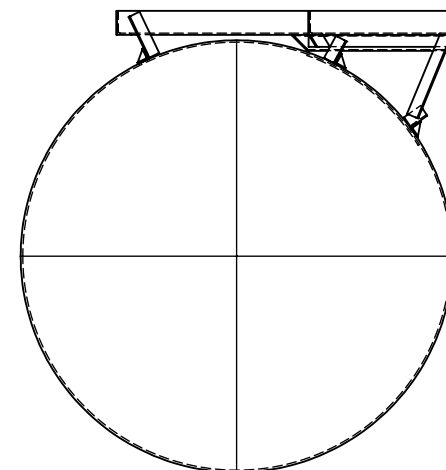
1 VARIOUS VIEWS - Existing Tank & Catwalk Supports  
SCALE: 1:48



TOP VIEW



SIDE ELEVATION VIEW



END ELEVATION VIEW

2 VARIOUS VIEWS - New Tank & Modified Catwalk  
SCALE: 1:48

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 Z. ROBERTSON  
 100217963  
 April 08 2022  
 PROVINCE OF ONTARIO

CLIENT:  
ArcelorMittal Long Products Canada

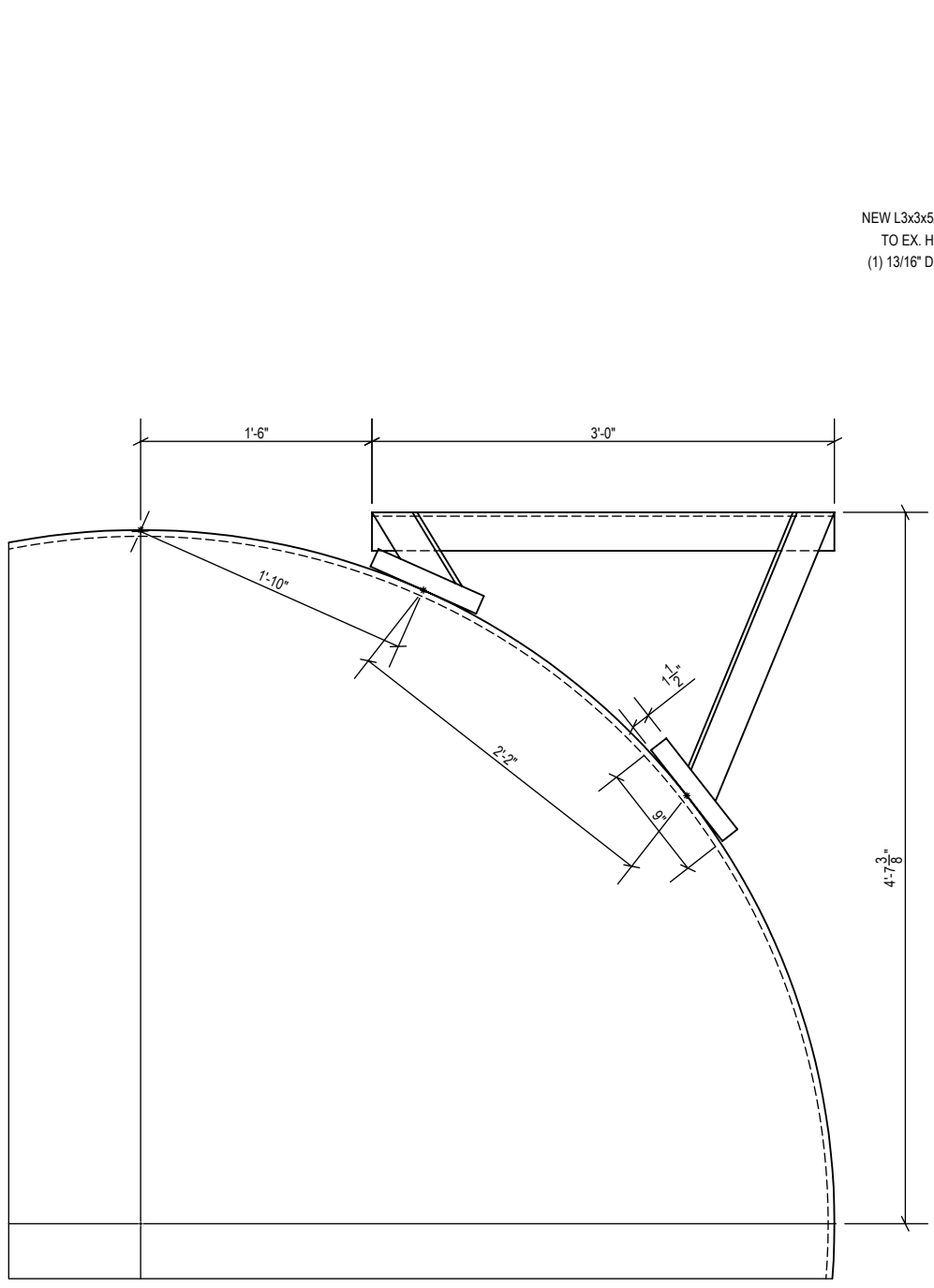
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Plan & Elevation Views

PROJECT:  
Acid Tank Catwalk Modifications  
690 Strathearne Ave N, Hamilton, ON

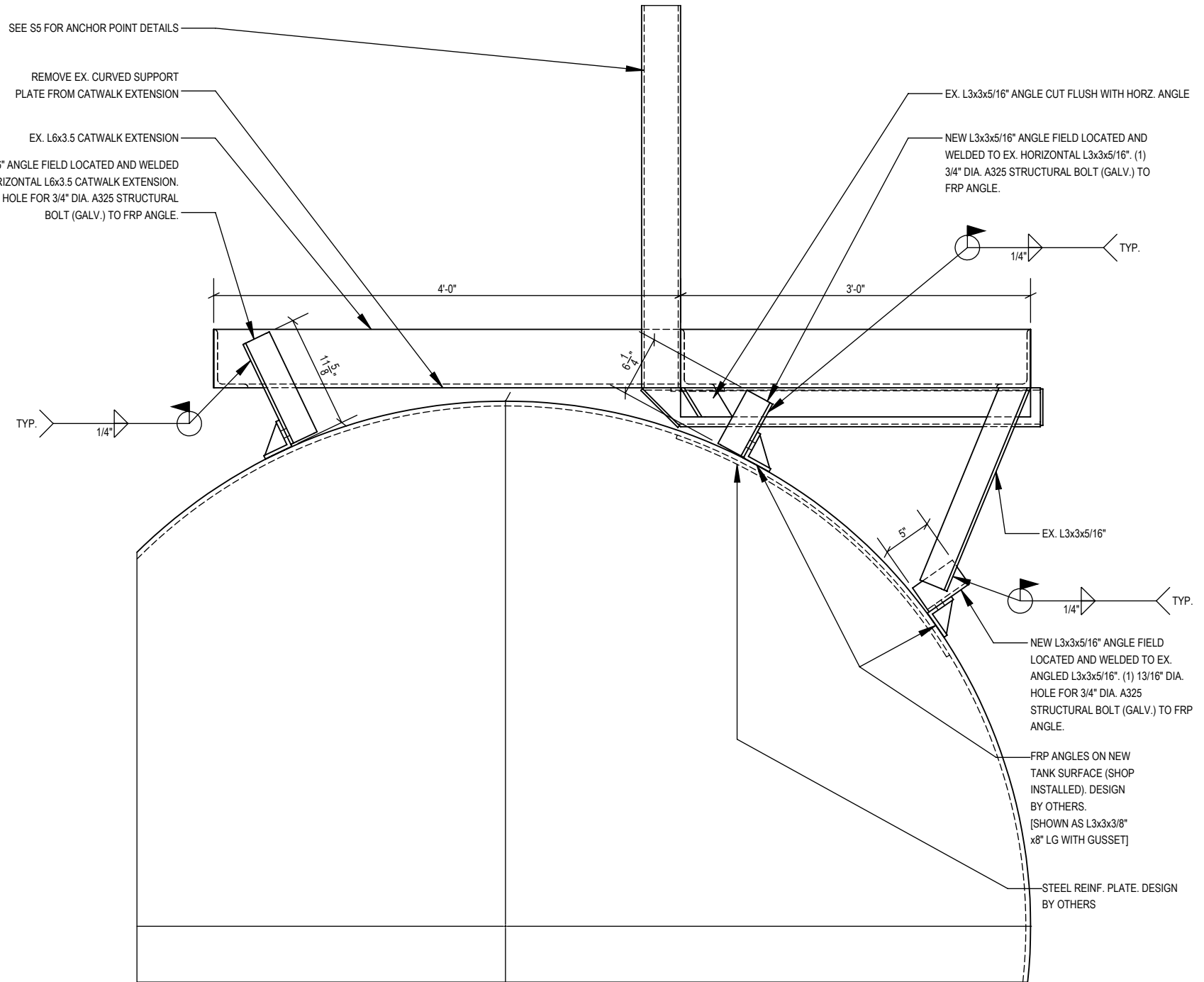
DRAWN BY: ZR DATE: 2022-03-02  
 SCALE: As Noted SHEET NO:  
 PROJECT NO: 22-02-048

51

CATWALK HANDRAILS NOT SHOWN, FOR CLARITY.



**1**  
**S2** END ELEVATION VIEW - Existing Tank & Catwalk Supports  
SCALE: 1:14



**2**  
**S2** END ELEVATION VIEW - New FRP & Modified Catwalk Supports  
SCALE: 1:14

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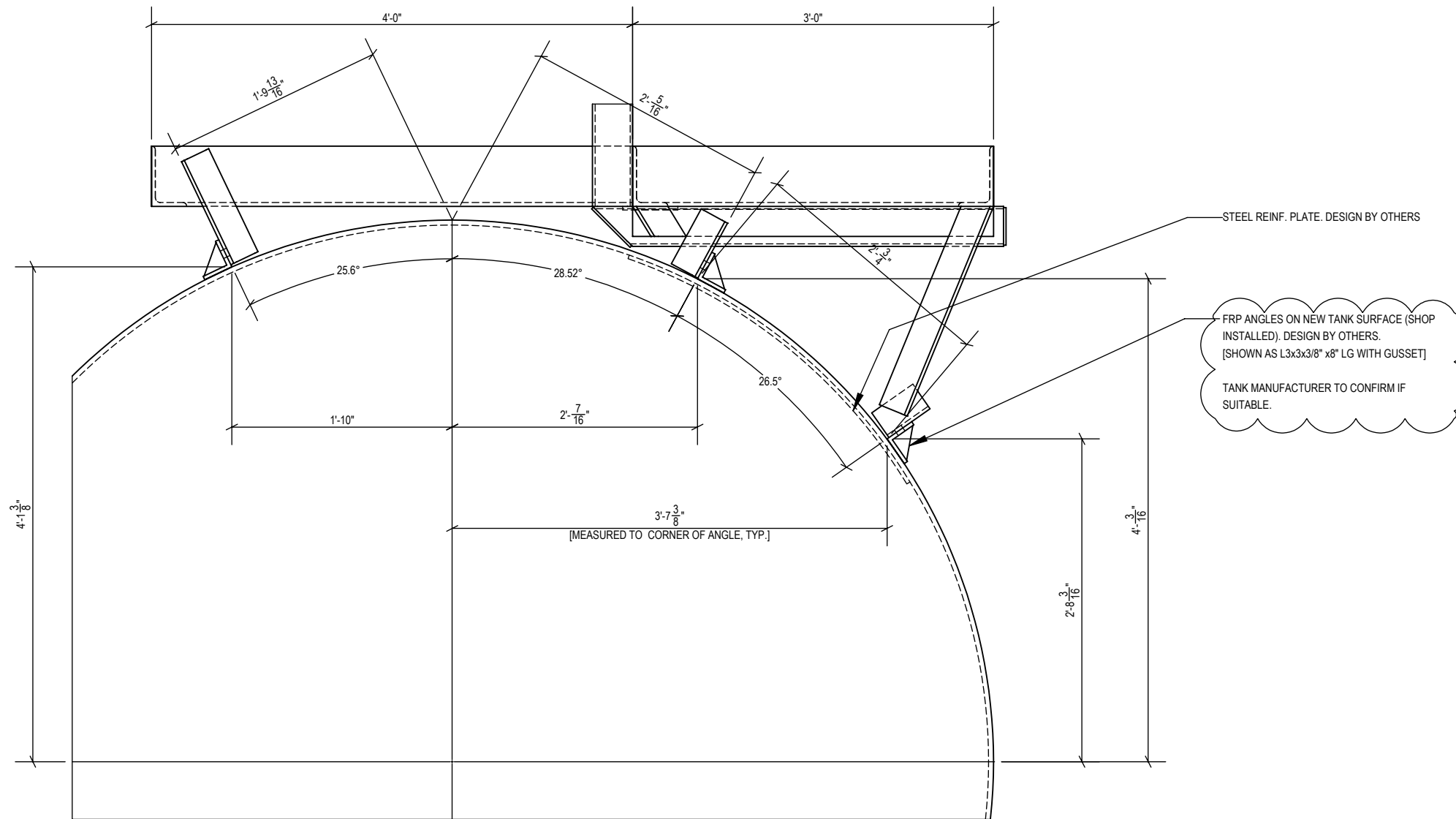
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ArcelorMittal Long Products Canada

DRAWING TITLE:  
Detail Views

PROJECT:  
Acid Tank Catwalk Modifications  
690 Strathearne Ave N, Hamilton, ON

DRAWN BY: ZR DATE: 2022-03-02  
 SCALE: As Noted SHEET NO:  
 PROJECT NO: 22-02-048 **S2**

CATWALK HANDRAILS NOT SHOWN, FOR CLARITY.



**1** ELEVATION VIEW - FRP Angle Locations  
 S3 SCALE: 1:14

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1	ZR	2022-04-08	ISSUED FOR CONSTRUCTION
0	ZR	2022-03-02	ISSUED FOR REVIEW + COMMENT

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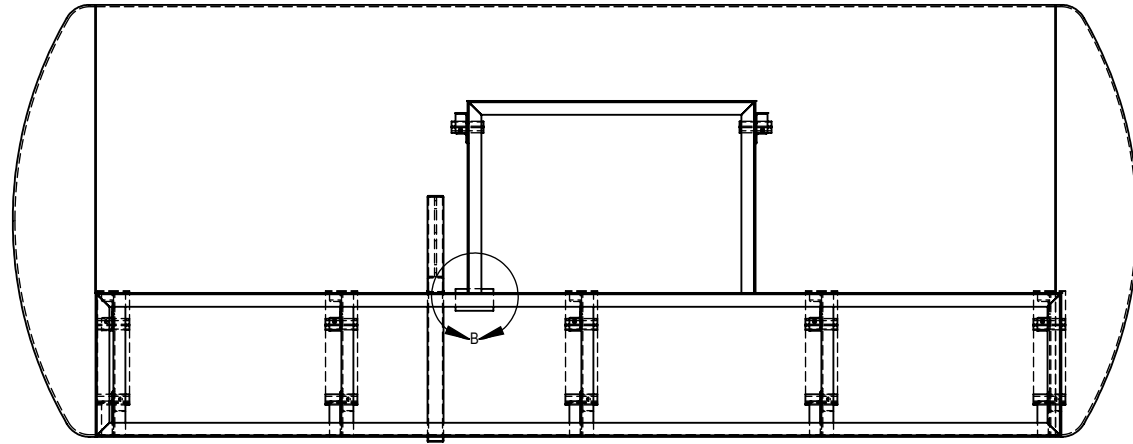
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 ArcelorMittal Long Products Canada

DRAWING TITLE:  
 FRP Angle Locations

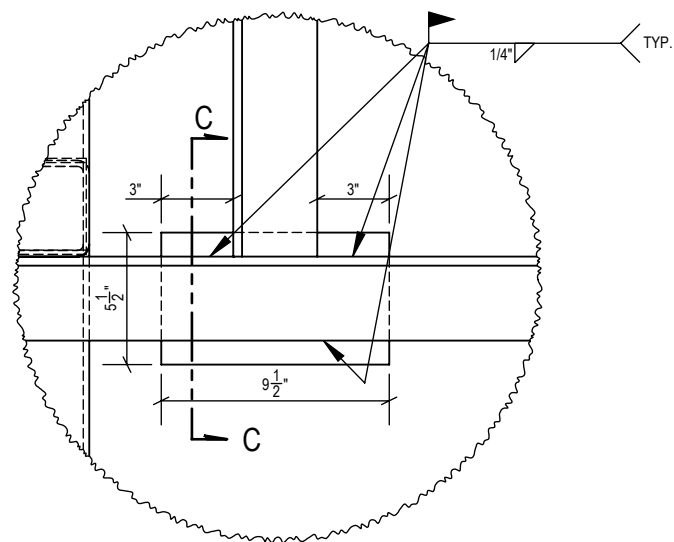
PROJECT:  
 Acid Tank Catwalk Modifications  
 690 Strathearne Ave N, Hamilton, ON

DRAWN BY: ZR DATE: 2022-03-02  
 SCALE: As Noted SHEET NO:  
 PROJECT NO: 22-02-048 **S3**

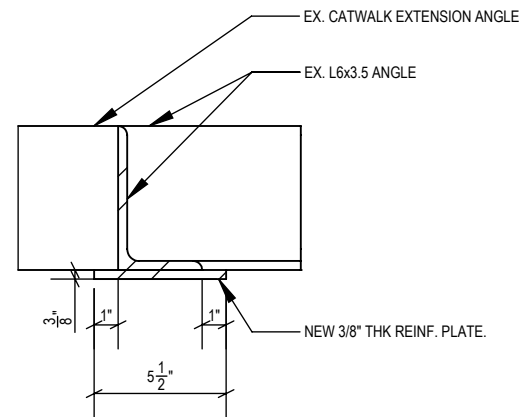
CATWALK HANDRAILS NOT SHOWN, FOR CLARITY.



PLAN VIEW - Ex. Catwalk Angle Repair



DETAIL B  
SCALE 1 : 8



SECTION C-C  
SCALE 1 : 8

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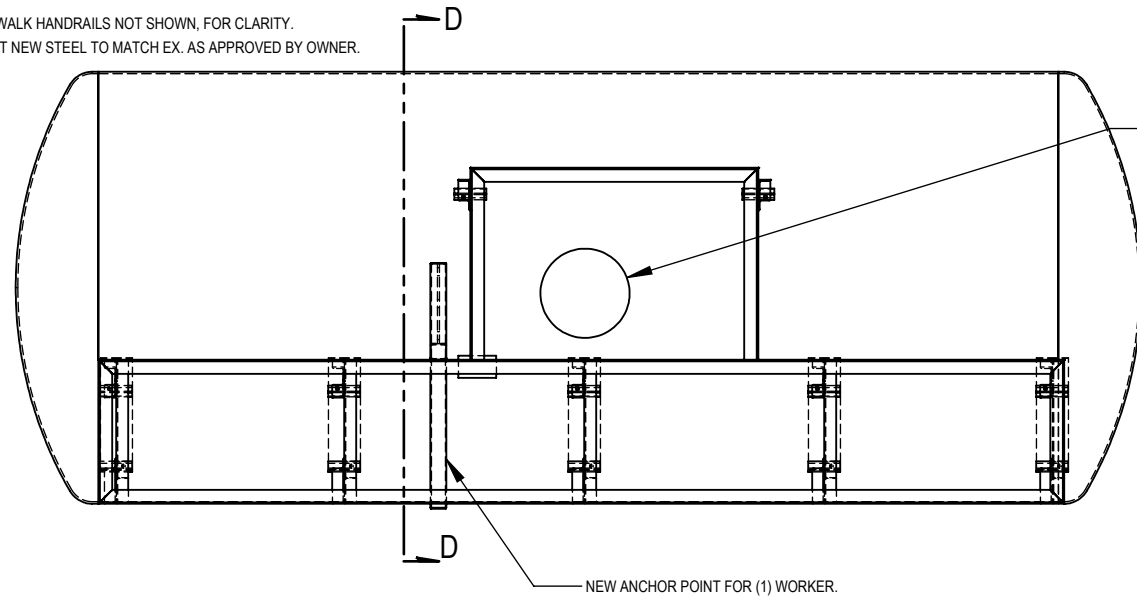
CLIENT:  
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DRAWING TITLE:  
Ex. Catwalk Repair

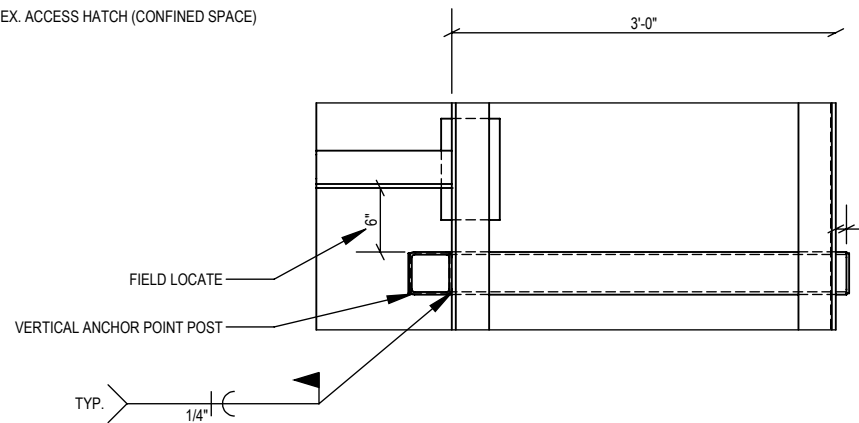
PROJECT:  
Acid Tank Catwalk Modifications  
690 Strathearne Ave N, Hamilton, ON

DRAWN BY: ZR	DATE: 2022-03-02
SCALE: As Noted	SHEET NO:
PROJECT NO: 22-02-048	S4

CATWALK HANDRAILS NOT SHOWN, FOR CLARITY.  
PAINT NEW STEEL TO MATCH EX. AS APPROVED BY OWNER.



**PLAN VIEW - New Confined Space Anchor Point**

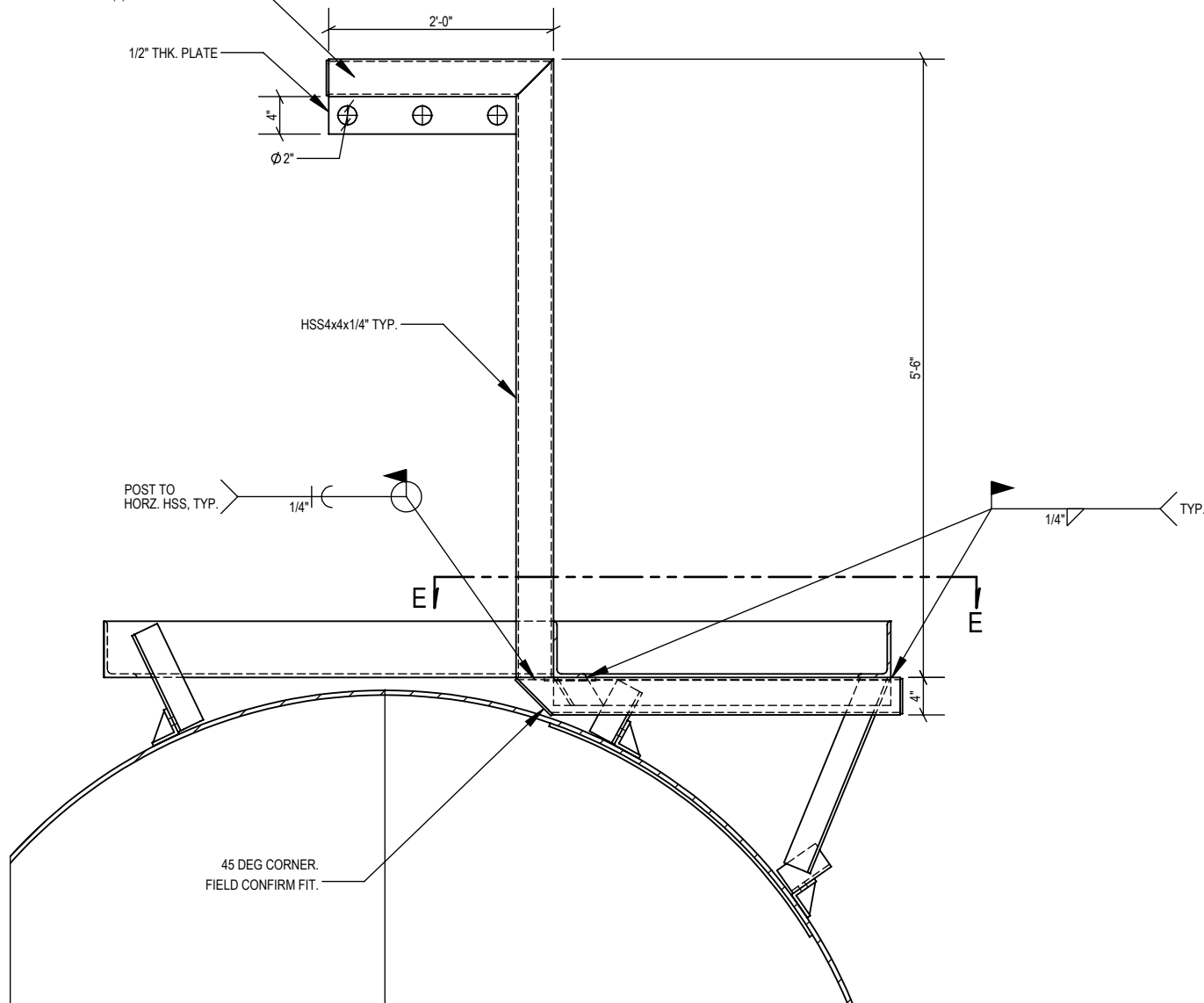


**SECTION E-E  
SCALE 1 : 18**

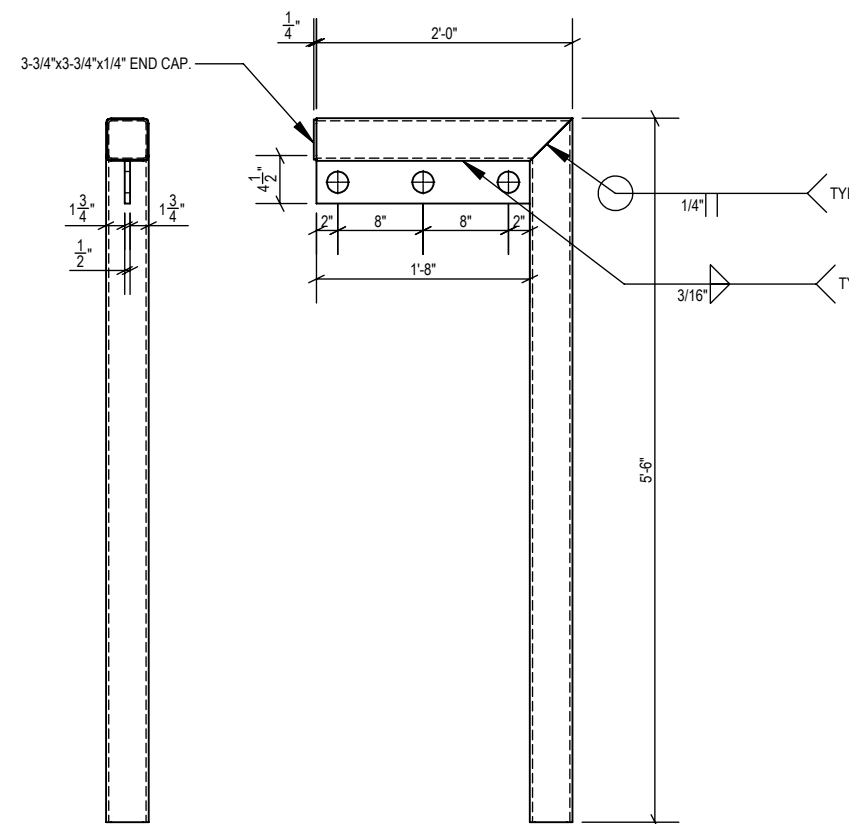
**ANCHOR POINT NOTES:**

- ANCHOR POINT FOR TANK ACCESS (CONFINED SPACE) IS DESIGNED FOR A SINGLE (1) WORKER & RESCUE IN ACCORDANCE WITH FALL ARREST SYSTEMS IN THE ONTARIO REGULATION FOR CONSTRUCTION PROJECTS.
- DESIGN LOAD = 8kN (NO SHOCK ABSORBER ASSUMED)
- CLEARLY LABEL ANCHOR POINT CAPACITY/USE ON DEVICE.
- OWNER IS RESPONSIBLE FOR RESCUE PROCEDURE AND REGULAR INSPECTION OF ANCHOR POINT.

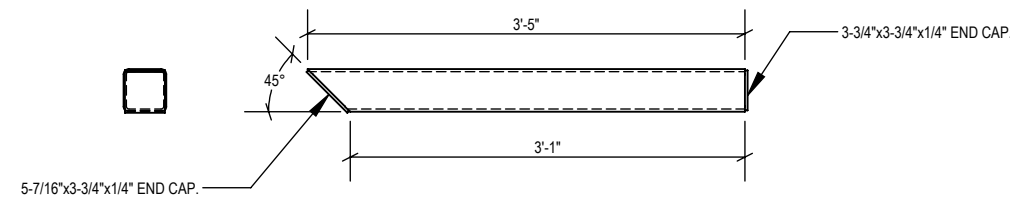
CLEARLY LABEL ANCHOR POINT:  
'(1) WORKER ONLY'



**SECTION D-D  
SCALE 1 : 18**



**ANCHOR POINT POST DETAIL**



**ANCHOR POINT LOWER HORIZONTAL MEMBER DETAIL**

FIELD VERIFY ALL DIMENSIONS  
PRIOR TO FABRICATION.

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CLIENT:  
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DRAWING TITLE:  
New Anchor Point Details

PROJECT:  
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DRAWN BY: ZR	DATE: 2022-03-02
SCALE: As Noted	SHEET NO: 55
PROJECT NO: 22-02-048	