DESIGN NOTES:

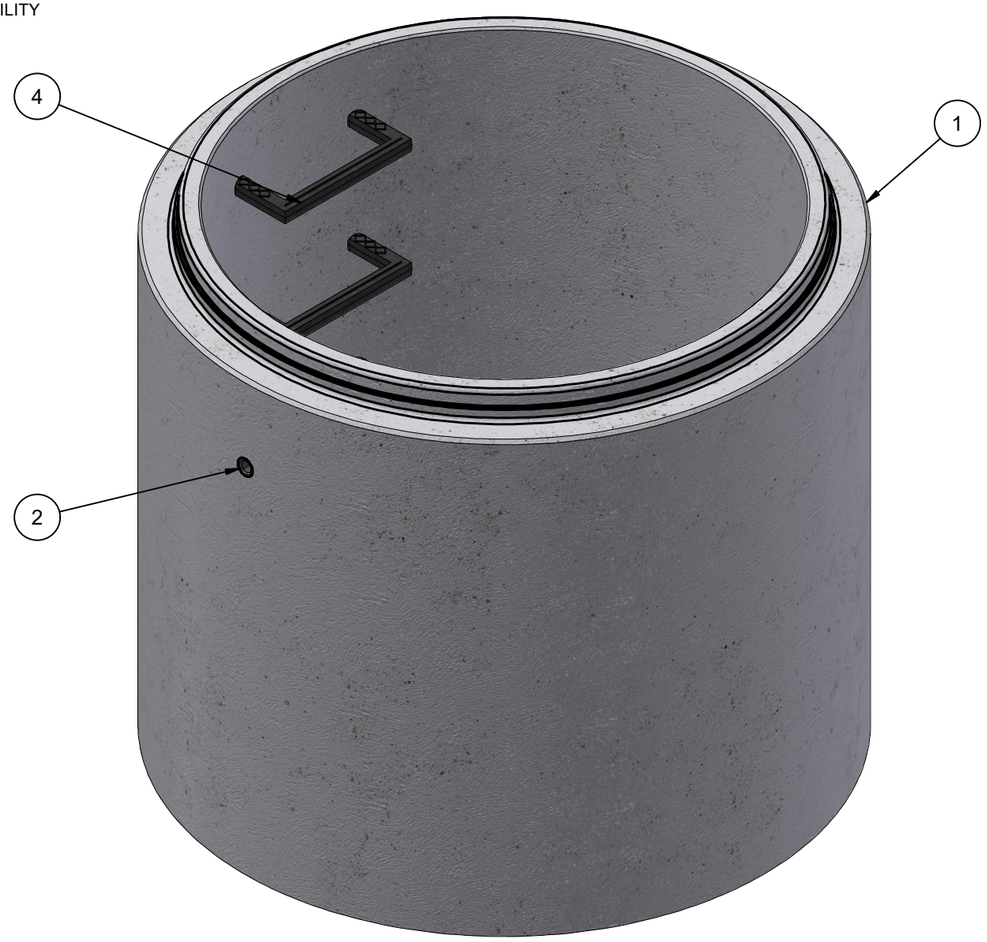
- CONCRETE SHALL HAVE A 28 DAY MINIMUM COMPRESSIVE STRENGTH OF 4000 PSI
- SOIL UNIT WEIGHT DRY - 110 lbs/cu.ft.
- EQUIVALENT LATERAL PRESSURE DRY - 40 lbs/cu.ft.
- SOIL UNIT WEIGHT WET - 120 lbs/cu.ft.
- EQUIVALENT LATERAL PRESSURE WET - 80 lbs/cu.ft.

PRODUCTION NOTES:

- THIS PRODUCT SHALL ONLY BE PRODUCED IN A JENSEN INFRASTRUCTURE FACILITY
- LIFTING INSERTS SHALL BE INSTALLED PER MANUFACTURER'S REQUIREMENTS
- APPLIED FINISH - NONE
- INTERNAL LINER/COATING - NONE
- EXTERNAL LINER/COATING - NONE

BILL OF MATERIALS

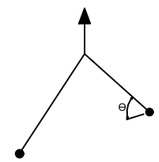
ITEM	QTY	PART NUMBER	DESCRIPTION
1	23.003 ft^3	100002728	CONCRETE MIX GENERIC 4000 PSI
2	2	100002854	INSERT MH RUNG PLASTIC SP SOCKET
3	4	100003363	REINF HOOP STEEL .25235DIA GA ASTM A-1064 54.25DIA
4	4	100039916	LADDER STEP RUNG POLYMER 9.25 X 13IN ASTM C-478 PS2-PF MA INDUSTRIES



ISOMETRIC VIEW

LIFTING NOTES
■ THIS CONCRETE PRODUCT IS DESIGNED TO BE LIFTED AT 2500 PSI WITH 2 LIFT CONNECTIONS EQUALLY LOADED TO 2 LIFTING POINTS AT A MINIMUM 45° SLING ANGLE, MEASURED FROM HORIZONTAL.
*All rigging shall be design by a qualified professional. Loading diagrams show illustrations of possible rigging setups to achieve the required sling angle and load leg equalization. Other valid rigging configurations are possible. A qualified professional must be consulted prior to lifting.

RIGGING DIAGRAM* | F



BURY DEPTH:	0.0' - 99.0' to Top		
WATER LEVEL:	0.0'	APPROX. WEIGHT:	3519.12 Lbs
DESIGN SPEC:	ASTM C478	LOADING SPEC:	A-16 (AASHTO HS20-44)
REINFORCEMENT TYPE:	Plain Wire	LIFTING TYPE:	SP Socket

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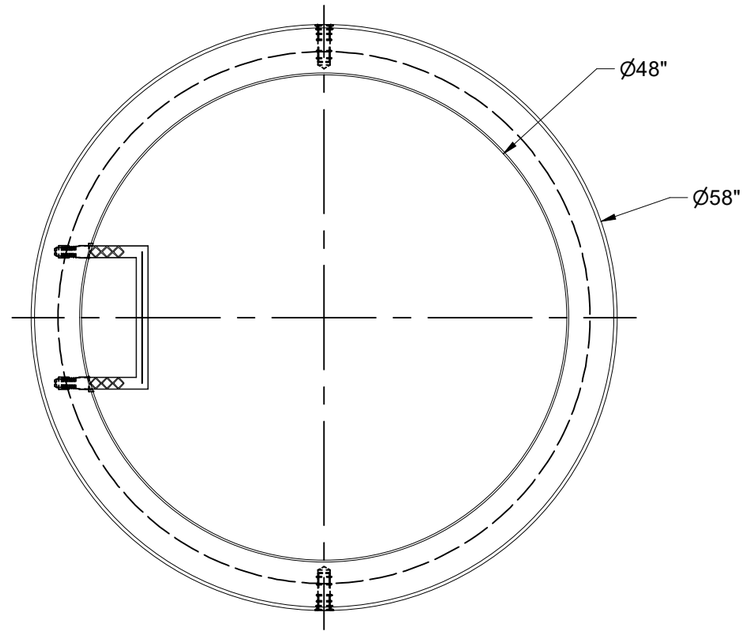
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CHANGE HISTORY

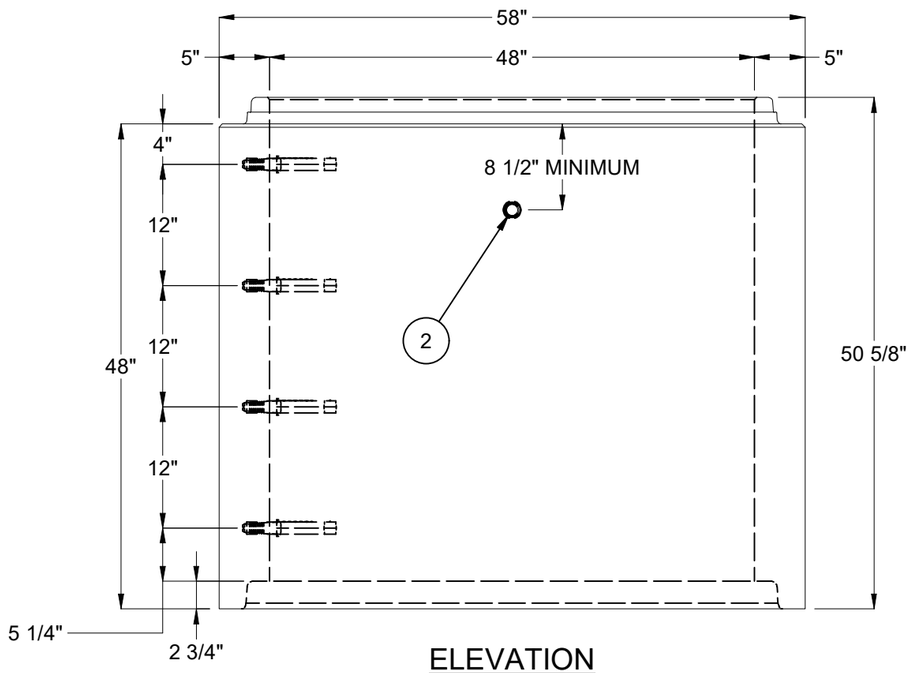
NO.	DESCRIPTION	DATE	BY
1	INITIAL RELEASE	2/27/2023	APS
2	CHANGE TO 4 STEEL HOOPS	9/2/2025	J.R.

DESCRIPTION:	Manhole D4858x48 Barrel TU Cast-In Steps NC CASTING LAYOUT		REV: A-2-1
PART NUMBER:	200073071	DRAWN BY: A. Sprung	SHEET: 1 OF 3
CREATED:	12/2/2018	MODIFIED: 9/2/2025	

200073071.idw



PLAN VIEW



ELEVATION

BURY DEPTH:	0.0' - 99.0' to Top		
WATER LEVEL:	0.0'	APPROX. WEIGHT:	3519.12 Lbs
DESIGN SPEC:	ASTM C478	LOADING SPEC:	A-16 (AASHTO HS20-44)
REINFORCEMENT TYPE:	Plain Wire	LIFTING TYPE:	SP Socket

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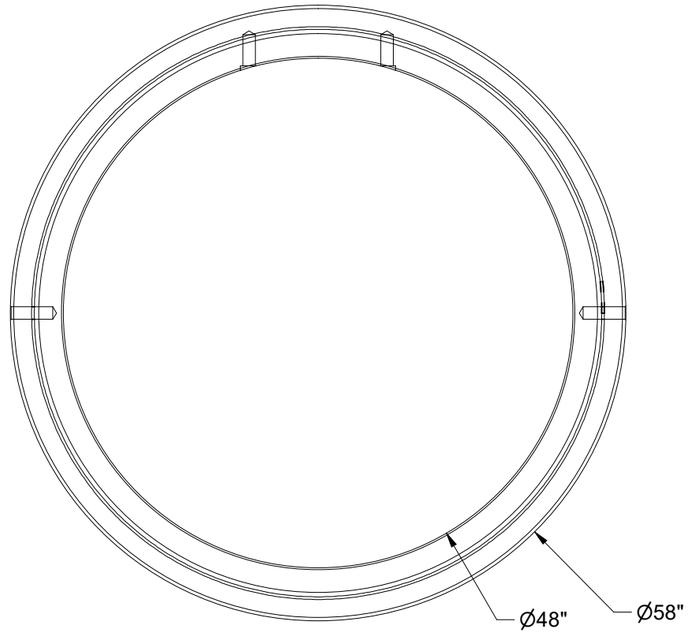
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DESCRIPTION:	Manhole D4858x48 Barrel TU Cast-In Steps NC CASTING DRAWING		
PART NUMBER:	200073071	DRAWN BY:	A. Sprung
CREATED:	12/2/2018	MODIFIED:	9/2/2025

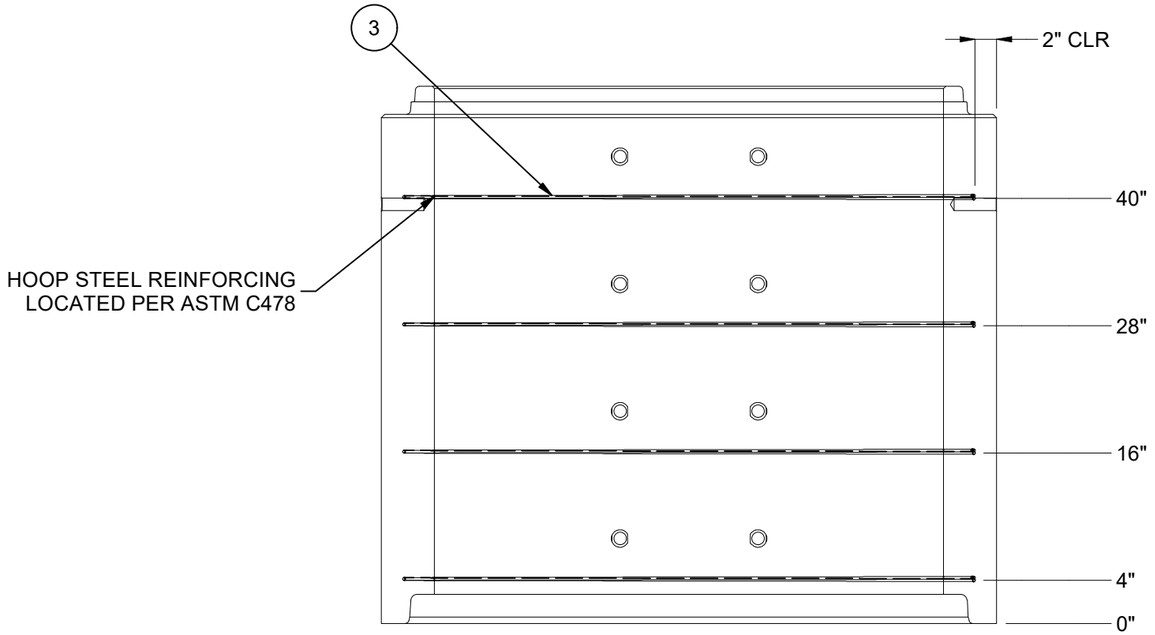
REV: A-2-1

SHEET: 2 OF 3

200073071.idw



PLAN VIEW



ELEVATION

BURY DEPTH:	0.0' - 99.0' to Top		
WATER LEVEL:	0.0'	APPROX. WEIGHT:	3519.12 Lbs
DESIGN SPEC:	ASTM C478	LOADING SPEC:	A-16 (AASHTO HS20-44)
REINFORCEMENT TYPE:	Plain Wire	LIFTING TYPE:	SP Socket

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DESCRIPTION:	Manhole D4858x48 Barrel TU Cast-In Steps NC REINFORCEMENT CAGE REVIEW		
PART NUMBER:	200073071	DRAWN BY:	A. Sprung
CREATED:	12/2/2018	MODIFIED:	9/2/2025

REV: A-2-1

SHEET: 3 OF 3

200073071.idw