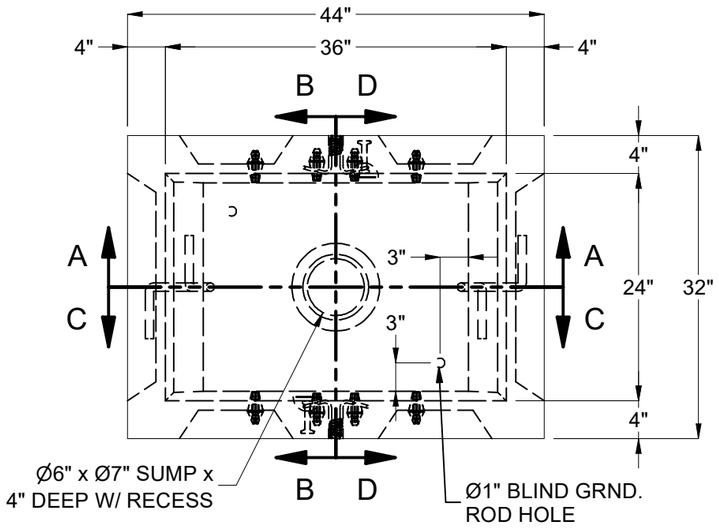
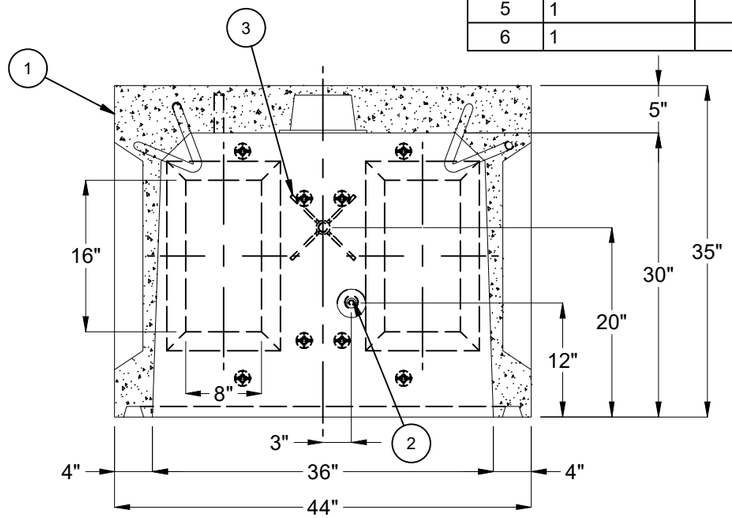
DESIGN NOTES
■ DESIGNED IN ACCORDANCE WITH AASHTO HS20-44 TRAFFIC BRIDGE LOADING USING 5,500 PSI COMPRESSIVE STRENGTH CONCRETE AND 60,000 PSI YIELD STRENGTH ASTM A-706 STEEL REINFORCEMENT PER CALCS. #31387.
■ ALL PARTS TO BE STENCILED: MFG DATE / JOB NUMBER / PRODUCT ID / WEIGHT.

BILL OF MATERIALS

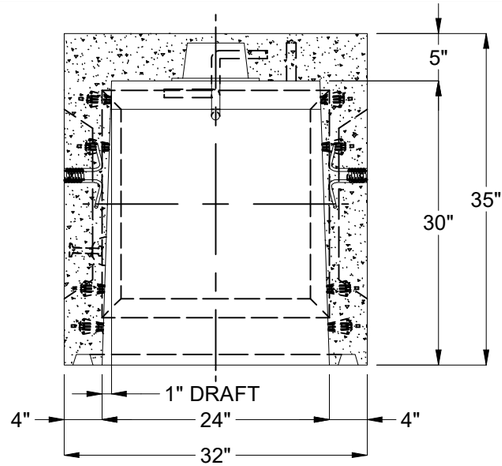
ITEM	UNIT QTY	QTY	PART NUMBER	DESCRIPTION
1	11.454 ft^3	11.454 ft^3	100024079	CONCRETE #19 SCC
2	1	2	100002867	ANCHOR DOGBONE P52 2T X 3-3/8" GALV
3	1	2	100044597	Insert Thin Slab Coil 4-Leg 1 x 4" Galv (F53 or Equiv.)
4	1	2	100003026	PULL IRON OFFSET .875DIA 6H X 5W X 10.875L GALV
5	1	16	100012720	INSERT PLASTIC W/ BREAK OFF SNAP 0.5IN
6	1	1	100017870	REINFORCING MAT 100017870



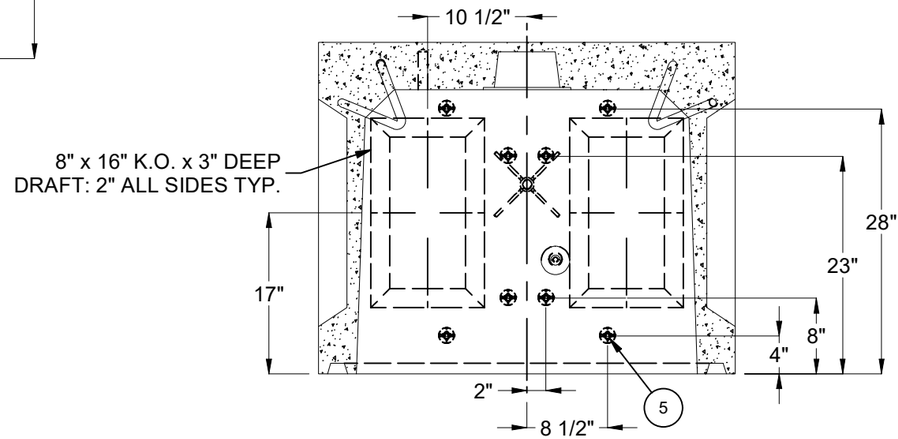
PLAN VIEW



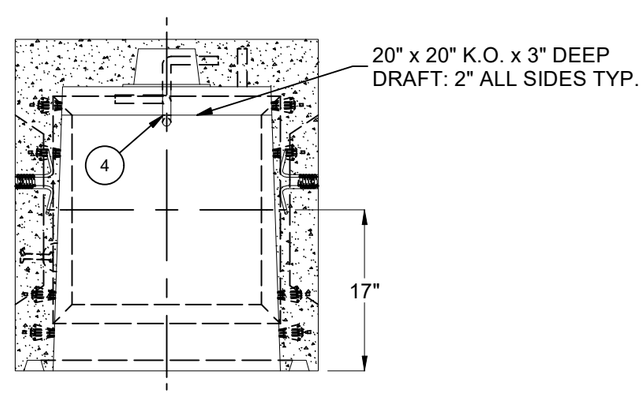
SECTION A-A



SECTION B-B



SECTION C-C

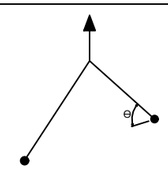


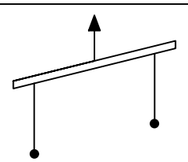
SECTION D-D

LIFTING NOTES
■ INSTALLATION: THIS CONCRETE PRODUCT IS DESIGNED TO BE LIFTED AT 5500 PSI WITH 2 LIFT CONNECTIONS EQUALLY LOADED TO 2 LIFTING POINTS AT A MINIMUM 60° SLING ANGLE, MEASURED FROM HORIZONTAL.
■ DEMOLDING: THIS CONCRETE PRODUCT IS DESIGNED TO BE LIFTED AT 2500 PSI WITH 2 LIFT CONNECTIONS EQUALLY LOADED TO 2 LIFTING POINTS AT A MINIMUM 90° 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 DIAGRAMS*

INSTALLATION	F	DEMOLDING	G





BURY DEPTH:	0.5' - 0.5' to Top		
WATER LEVEL:	3.0'	APPROX. WEIGHT:	1729.79 Lbs
DESIGN SPEC:	ACI 318,ASTM C857	LOADING SPEC:	A-16 (AASHTO HS20-44)
REINFORCEMENT TYPE:	Rebar	LIFTING TYPE:	Dogbone

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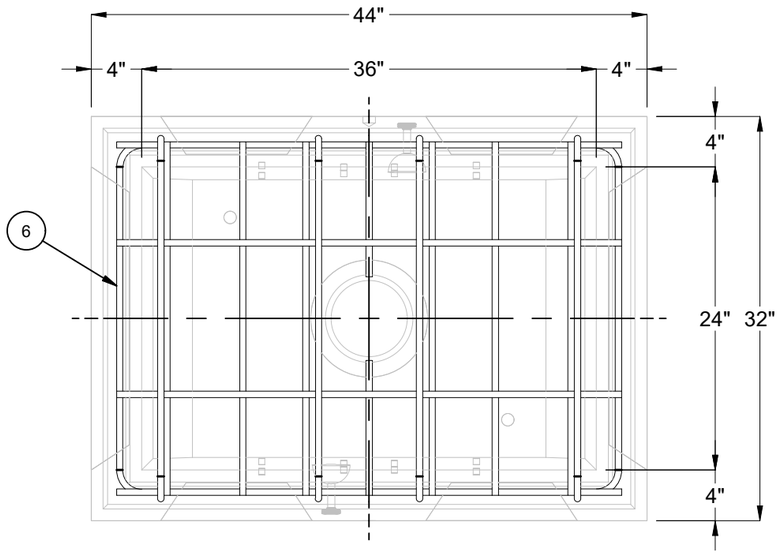
REVISION HISTORY

REV	DESCRIPTION	DATE	APPROVED
D-1	ADDED DESIGN NOTES & RECESS AT SUMP	6/12/2024	

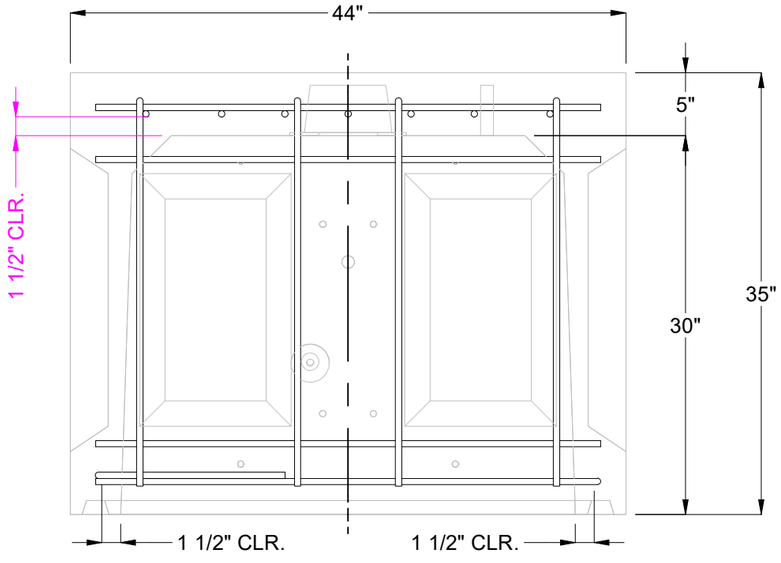
DESCRIPTION:	Vault 2436x30 Rect. Bottom Section Knockout Sump CASTING LAYOUT		REV: D-1
PART NUMBER:	100012131	DRAWN BY:	J. Prado
CREATED:	7/25/2019	MODIFIED:	6/12/2024
			SHEET: 1 OF 2

100012131.idw

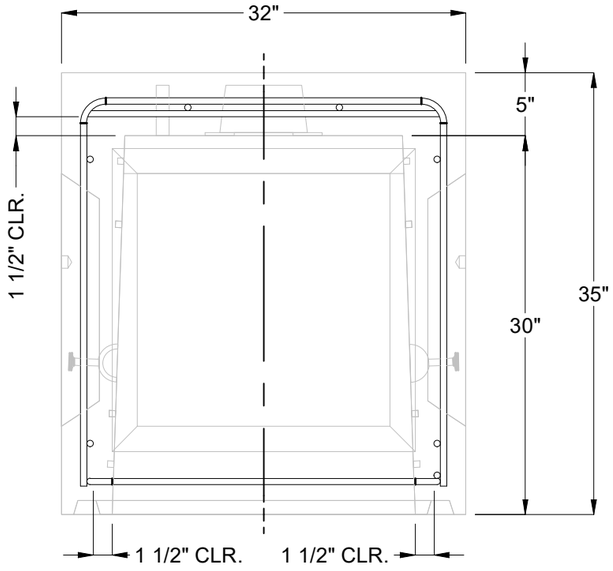
REINFORCING REVIEW NOTES
■ THE MINIMUM COVER OVER REINFORCING STEEL SHALL BE AS FOLLOWS:
(A) 1 1/2" FOR INSIDE & OUTSIDE FACE OF WALLS.
(B) 1 1/2" FOR INSIDE & OUTSIDE FACE OF ROOF SLABS.
(C) 3/4" FOR SHEAR KEYS.
(D) UNLESS OTHERWISE SHOWN.
TOLERANCES:
1. DIMENSIONS AFFECTING COVERAGE ...± 1/4"-0"
2. DIMENSIONS IN PLANE OF CAGE AND NOT AFFECTING ABOVE ...± 1".



PLAN VIEW



SIDE ELEVATION



END ELEVATION

BURY DEPTH:	0.5' - 0.5' to Top		
WATER LEVEL:	3.0'	APPROX. WEIGHT:	1729.79 Lbs
DESIGN SPEC:	ACI 318,ASTM C857	LOADING SPEC:	A-16 (AASHTO HS20-44)
REINFORCEMENT TYPE:	Rebar	LIFTING TYPE:	Dogbone

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DESCRIPTION:	Vault 2436x30 Rect. Bottom Section Knockout Sump CASTING LAYOUT		REV: D-1
PART NUMBER:	100012131	DRAWN BY:	J. Prado
CREATED:	7/25/2019	MODIFIED:	6/12/2024
			SHEET: 2 OF 2

100012131.idw