

LIFTING NOTES

- FIELD INSTALLATION: PLANT DEMOLING: MINIMUM HANDLING CONCRETE STRENGTH  $F_c = 5500$  PSI RIGGING EQUALIZER REQUIRED TO EQUALIZE LOAD TO 4 LIFTING POINTS WITH A SLING ANGLE BETWEEN  $60^\circ$  AND  $90^\circ$

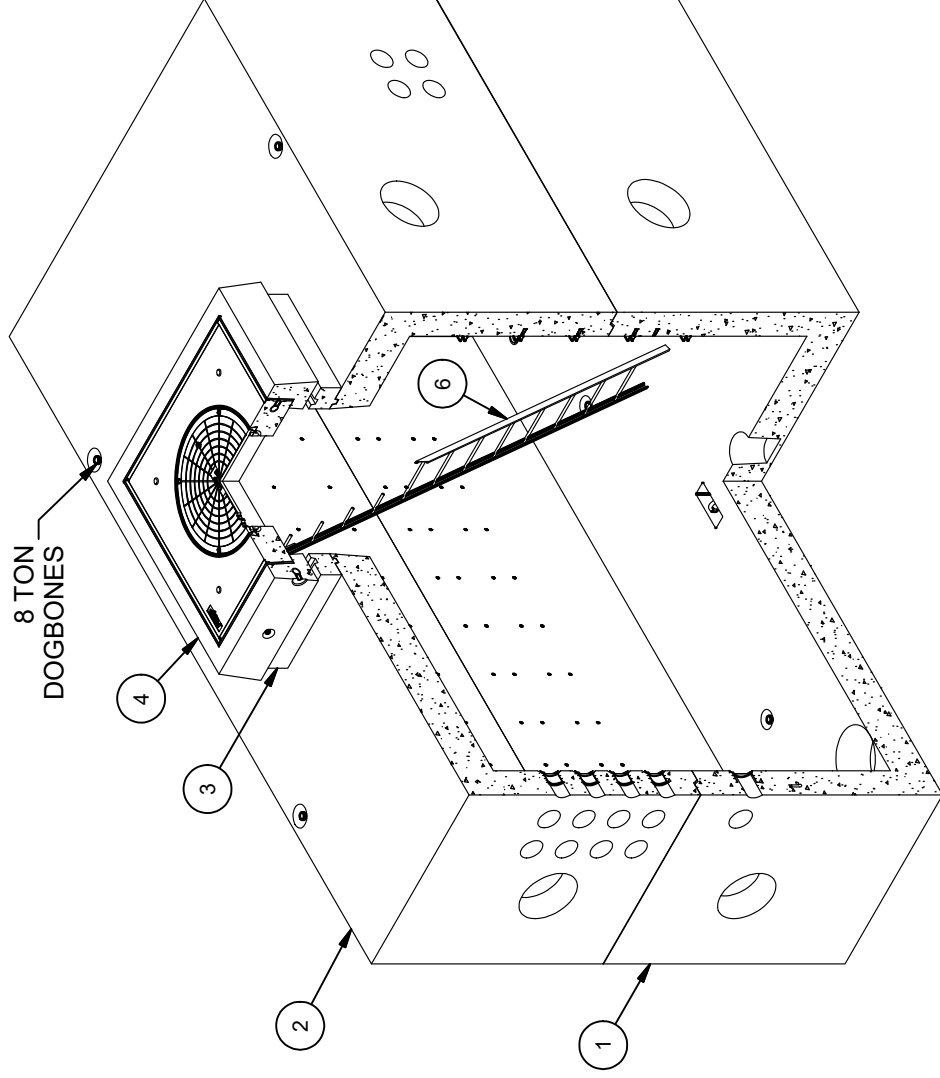
BILL OF MATERIALS

ITEM	UNIT QTY	QTY	PART NUMBER	DESCRIPTION	MASS (lb)
1	1	1	100009755	Vault 96192x57 Rect. Bottom Section Knockout, Terminators Sump LADWP H-202 G-2/G-3	45652
2	1	1	100009742	Vault 96192x57 Rect. Top Section 48"x48"C Knockout, Terminators LADWP H-202 G-2/G-3	42339
3	1	1	100012395	Riser 4848x6 LADWP 1-802 G-1B	792
4	1	1	200060771	Vault Neck and Plug Cover Assembly 4848x12 30"C LADWP 1-802 G-1B R-1581	3325
5	1	1	100007585	LADDER HANGER ASSEMBLY GALV	
6	1	1	100009251	LADDER HOOKED GALV 12FT ED/LA I3382	
7	1	4	100009239	ROD THREADED COIL YELLOW DIP 3/4 X 10-1/2"	
8	1	8	100007010	HEX COIL NUT 3/4-4.5 ZINC - PLATED	
9	1	8	100007136	WASHER FLAT 3/4 REGULAR TYPE A ZINC	
10	1	10	100006057	STRUT SLOTTED C-CHANNEL 1-5/8 X 1-5/8 12GA BOLT-ON GALV 12IN	
11	1	2	100006062	STRUT SLOTTED C-CHANNEL 1-5/8 X 1-5/8 12GA BOLT-ON GALV 18IN	
12	1	1	100008136	STRUT SLOTTED C-CHANNEL 1-5/8 X 1-5/8 12GA BOLT-ON GALV 48IN	
13	1	9	100006058	STRUT SLOTTED C-CHANNEL 1-5/8 X 1-5/8 12GA BOLT-ON GALV 132IN	
14	1	109	100008101	SCREW BUTT HEAD CAP 1/2-12 2 304SS	
15	1	109	100007135	WASHER FLAT 1/2 TYPE A 304SS	
16	1,000 ul	1,000 ul	100005749	SEALANT JOINT BUTYL RUBBER ASTM C-990 AND M198 CS-102 1IN EQUIV X 14.5FT PER BOX 118FT	

NOTES:

- STANDARDS. AASHTO LRFD BRIDGE DESIGN SPECIFICATIONS, 8TH EDITION, WITH 2022 CALTRANS AMENDMENTS, CITY OF LOS ANGELES BUREAU OF ENGINEERING STANDARD PLAN S-601, LATEST, MANUAL PART H, LADWP P 178, ASTM C-857. STRUCTURAL CALCS FOR BOX: #33366.
- MATERIAL. CONCRETE,  $F_c=5,500$  PSI. MIX TO INCLUDE FLY ASH AND DCI. REINFORCEMENT PER ASTM A-706 OR A-615,  $F_y=60,000$ .
- LOADS. VERTICAL LIVE LOAD: AASHTO HL-93, INCLUDING GREATER OF HS-20 TRUCK OR TANDEM. LIVE LOAD SURCHARGE: PER LA BOE PART H, FIGURE H 374.2A. MINIMUM 80 PSF (TO BOTTOM OF VAULT) OR LADWP P 178 (104 PSF). SOIL LATERAL LOADS: 40 PCF (DRY), 81 PCF (SATURATED), SATURATED SOIL CONDITIONS 3'-0" BELOW GRADE. SOIL BEARING CAPACITY = 1,500 PSF. DESIGN SOIL DENSITY IS 120 PCF.
- LOADS NOT INCLUDED. DESIGN DOES NOT INCLUDE COOPER E-80 RAILROAD LOADS OR LATERAL OR SURCHARGE LOADS THAT ARE PRODUCED BY FOOTING OR FOUNDATIONS ADJACENT TO THE STRUCTURE. THIS SUBSTRUCTURE SHALL BE KEPT AT LEAST IN A 1:1 RATIO AWAY FROM ALL FOOTINGS AND FOUNDATIONS, UNLESS THE ENGINEER OF RECORD APPROVES IN WRITING.
- INSTALLATION. VAULT TO BE PLACED ON WELL COMPACTED SOIL WITH MIN. 6" DEPTH OF TAMPED CRUSHED AGGREGATE BASE FOR EASE OF INSTALLATION AND EVEN LOAD DISTRIBUTION USING A VIBRATORY PLATE COMPACTOR IN A MIN. OF TWO PASSES. BASE TO EXTEND 12" BEYOND THE STRUCTURE. BASE MATERIAL IN ACCORDANCE WITH SECTION 200-2.2 OF THE SSPWC (GREEN BOOK) PER LADWP SPECIFICATION NO. 104.
- INSTALLATION LIMITS. VAULT SHALL HAVE A MINIMUM COVER 1'-6" AND A MAXIMUM COVER OF 4'-0".
- EACH CONCRETE SECTION SHALL BE MARKED ON THE INSIDE & OUTSIDE WITH "JENSEN PRECAST", THE DESIGNATION "DWPI/FA-CN", AND THE DATE OF THE POUR.
- EACH CONCRETE SECTION SHALL HAVE CAST-IN ON THE INSIDE "JENSEN", THE YEAR, AND THE DESIGNATION "FA-CN".
- EACH PIECE TO BE STENCILED WITH ITS PART NO.
- NO SHARP OR ROUGH EDGES ON THE TERMINATORS ENTERING THE VAULT.
- CITY OF LA APPROVED 4' X 4' VAULT NECK AND COVER, WITH APPROVED CAST IRON COVER TO BE USED WITH THIS VAULT.
- MINIMUM EXCAVATION SIZE: 10'-4" X 18'-4" X DEPTH REQ'D.
- ADDITIONAL SUBMITTAL, PERMIT AND CONSTRUCTION PLAN REVIEW WILL BE REQUIRED FOR EACH PROJECT LOCATION. SUBMIT TO CITY ENGINEERS FOR APPROVAL PRIOR TO START OF ANY CONSTRUCTION.
- ALL INSTALLATIONS SHALL COMPLY WITH ALL OTHER LOCAL GOVERNING CODES AND REGULATION INCLUDING CALIFORNIA PUBLIC UTILITIES COMMISSION REGULATIONS.

BURY DEPTH:	1.5' - 4.0' to Top
WATER LEVEL:	3.0'
DESIGN SPEC:	AASHTO LRFD/ACT 318, ASTM C857
AGENCY:	LADWP
APPROX. WEIGHT:	92404.38 Lbs
LOADING SPEC:	AASHTO HL-93
AGENCY SPEC:	H-202 G-2 R22



REVISION HISTORY

REV	DESCRIPTION	DATE	APPROVED
B-1	INITIAL RELEASE INVENTOR	8/29/2023	

DESCRIPTION: Vault Layout 96192x114 Sump 48"x48"C LADWP H-202 G-2 R22

REV: B-142

SHEET: 1 OF 2

PART NUMBER: 100010617 LAYOUT REVIEW

DRAWN BY: J. Prado

CREATED: 2/2/2023 MODIFIED: 8/29/2023

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