

# 6'-0" x 10'-0" DUCTED VAULT x 9'-4" DEEP

## MATERIAL LIST

- UV610X-B52-12 (100012997), 52" BOTTOM SECTION (CG-610X-B52-12, 100018345) WT. 25,000 lbs. 166.67 C.F.
- UV610X-T60-12 (200018257), 60" TOP SECTION (CG-610X-T60-12, 100018083) WT. 24,650 lbs. 164.33 C.F.
- 8" DIA. x 9" DIA. SUMP x 6" DEEP. LOCATE AS FOLLOWS: BOTTOM SECTION SECTION (1) CORE MTD.
- 24" x 36" DUCTED K.O. x 12" DEEP W/ (12) 5" DIA. TERMS. CAST IN. LOCATE AS FOLLOWS: TOP SECTION (2) CORE MTD.
- 2" DIA. TERMINATORS (55-30-52, 100005936) LOCATE AS FOLLOWS: TOP SECTION (24) IN 24" x 36" KNOCKOUTS & (16) CORE MTD.
- 2" DIA. TERMS GROUND ROD K.O. (55-30-20, 100003010) LOCATE AS FOLLOWS: BOTTOM SECTION (12) CORE MTD.
- 14" DIA. x 16" DIA. VENT K.O. x 6 1/2" DEEP. LOCATE AS FOLLOWS: TOP SECTION (8) CORE MTD.; BOTTOM SECTION (2) CORE MTD.
- 7/8" DIA. x 4 1/2" GALV. PULL IRON w/LEGS (SPI-45LA, 100005939). LOCATE AS FOLLOWS: TOP SECTION (4) CORE MTD; BOTTOM SECTION (2) CORE MTD.
- 7/8" DIA. x 4 1/2" SS PULL IRON w/LEGS (SPI-45LA-SS-316, 100005940). LOCATE AS FOLLOWS: BOTTOM SECTION (1) CORE MTD.
- 1/2" PLASTIC INSERT. MIN. CAPACITIES: 150 LBS TENSION; 300 LBS SHEAR (55-10-424, 100007278). LOCATE AS FOLLOWS: BOTTOM SECTION (4) CORE MTD.; TOP SECTION (54) CORE MTD.
- 12" DIA. K.O. x 8 1/2" DEEP. LOCATE AS FOLLOWS: BOTTOM SECTION (2) CORE MTD.
- 8 TON x 6-3/4" GALV. DOGBONE ANCHOR FOR HANDLING (55-20-806, 100002880). LOCATE AS FOLLOWS: BOTTOM SECTION (4) CORE MTD.
- 8 TON x 13-3/8" GALV. DOGBONE ANCHOR FOR HANDLING (55-20-813, 100002882). LOCATE AS FOLLOWS: BOTTOM SECTION (4) CORE MTD.
- 7/8" DIA. x 8 1/2" SS PULL IRON w/LEGS (SPI-85LA-SS-316, 100015127), WITH NO RECESS POCKET. LOCATE AS FOLLOWS: TOP SECTION (4) CORE MTD.; OR [ALTERNATE 7/8" DIA. x 4 1/2" SS PULL IRON w/LEGS (SPI-45LA-SS-316, 100005940).]

## NOTES:

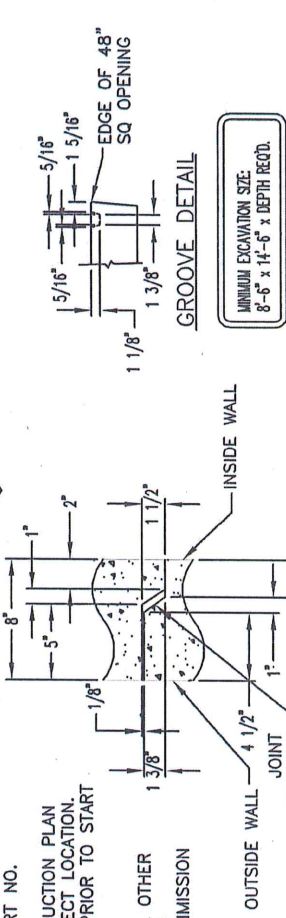
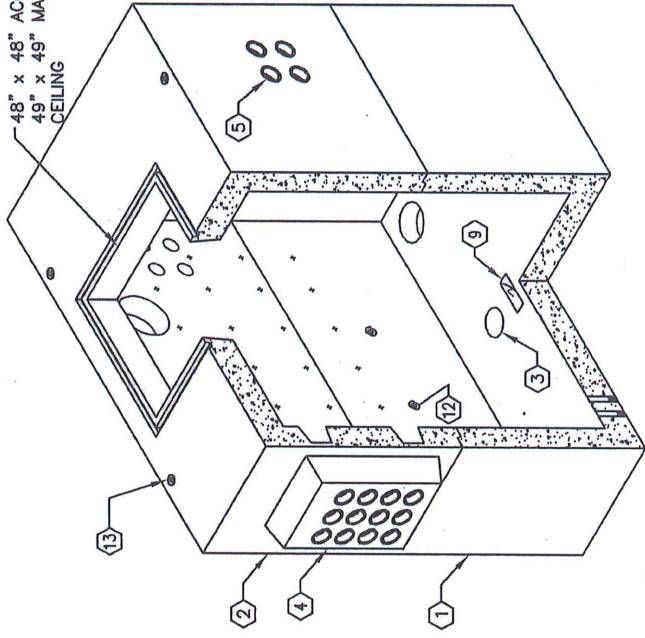
- STANDARDS. AASHTO LRFD BRIDGE DESIGN SPECIFICATIONS, 6TH EDITION, WITH 2014 CALTRANS AMENDMENTS. CITY OF LOS ANGELES BUREAU OF ENGINEERING STANDARD PLAN S-601, LATEST, MANUAL PART H, LADWP P 178, ASTM C-857. STRUCTURAL CALCS. #33763
- MATERIAL CONCRETE, F<sub>c</sub>=5500 PSI. MIX TO INCLUDE FLY ASH AND DCI. REINFORCEMENT PER ASTM A-706, F<sub>y</sub>=60,000.
- LOADS. VERTICAL LIVE LOAD: AASHTO HL-93. LIVE LOAD SURCHARGE: GREATEST OF: 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 = 1500 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 A MIN. 6" BASE OF CRUSHER RUN FOR EASE OF INSTALLATION AND EVEN LOAD DISTRIBUTION. BASE MATERIAL IN ACCORDANCE WITH SECTION 200-2 OF THE SSPWC (GREEN BOOK).
- INSTALLATION LIMITS. VAULT SHALL HAVE A MINIMUM COVER OF 1'-6" AND A MAXIMUM COVER OF 4'-0".
- EACH CONCRETE SECTION SHALL BE MARKED ON THE INSIDE & OUTSIDE WITH "JENSEN PRECAST", THE DESIGNATION "DWP/FA-CN" OR "DWP/F-CN-SC" IF SCC MIX USED, AND THE DATE OF THE POUR.
- EACH CONCRETE SECTION SHALL HAVE CAST-IN ON THE INSIDE "JENSEN", THE YEAR, AND THE DESIGNATION "FA-CN" OR "F-CN-SC" IF SCC MIX USED.
- NO SHARP OR ROUGH EDGES ON THE TERMINATORS ENTERING THE VAULT
- K44-VN12-12T VAULT NECK AND COVER, WITH APPROVED CAST IRON COVER TO BE USED WITH THIS VAULT.
- EACH PIECE TO BE STENCILED WITH ITS PART NO.
- ADDITIONAL SUBMITTAL, PERMIT AND CONSTRUCTION PLAN REVIEW WILL BE REQUIRED FOR EACH PROJECT LOCATION. SUBMIT TO CITY ENGINEER FOR APPROVAL PRIOR TO START OF ANY CONSTRUCTION.
- ALL INSTALLATIONS SHALL COMPLY WITH ALL OTHER LOCAL GOVERNING CODES AND REGULATIONS INCLUDING CALIFORNIA PUBLIC UTILITIES COMMISSION REGULATIONS.

HANDLING NOTE: THESE CONCRETE PRODUCTS ARE DESIGNED TO BE LIFTED WITH 4 EQUALLY LOADED VERTICAL RIGGINGS LEGS USING A SPREADER BEAM, 90° SLING ANGLE, MEASURED FROM HORIZONTAL.

## THE FOLLOWING MATERIAL TO BE SHIPPED WITH EACH VAULT:

- 7/8" x 1 3/4" CONSEAL SEALANT (45 FT. REQUIRED)
- LADDER HANGAR ASSEMBLY (1 REQUIRED)
- 1-3382 LADDER 12 (1 REQUIRED)
- 1 5/8" x 1 5/8" GALV. UNISTRUT x 96" LONG, (21-96-00) W/ (7) 1/2" x 1 1/2" ROUND HEAD ALLEN PLATED MACHINE SCREWS (20-10-417) & (7) 1/2" PLATED WASHER (20-25-41). (8 REQUIRED)

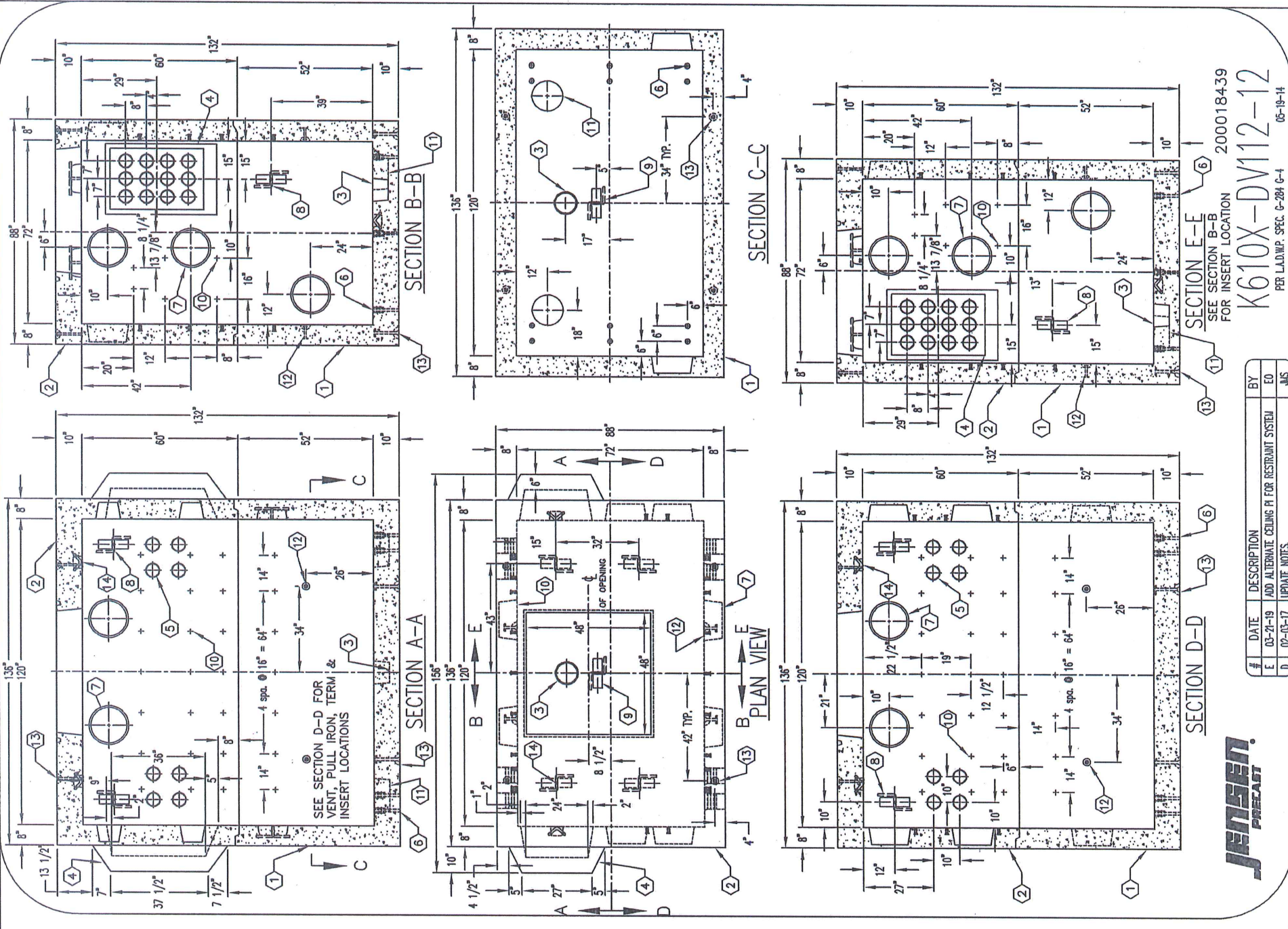
48" x 48" ACCESS  
49" x 49" MAX AT  
CEILING



WALL JOINT DETAIL

GROOVE DETAIL

MINIMUM EXCAVATION SIZE:  
8'-6" x 14'-6" x DEPTH REQD.



#	DATE	DESCRIPTION	BY
E	03-21-19	ADD ALTERNATE CEILING F1 FOR RESTRAINT SYSTEM	ED
D	02-03-17	UPDATE NOTES	JMS

200018439  
K610X-DV112-12  
PER LADWP. SPEC. G-284 G-4  
05-19-14



ARC-00 REL. 2005