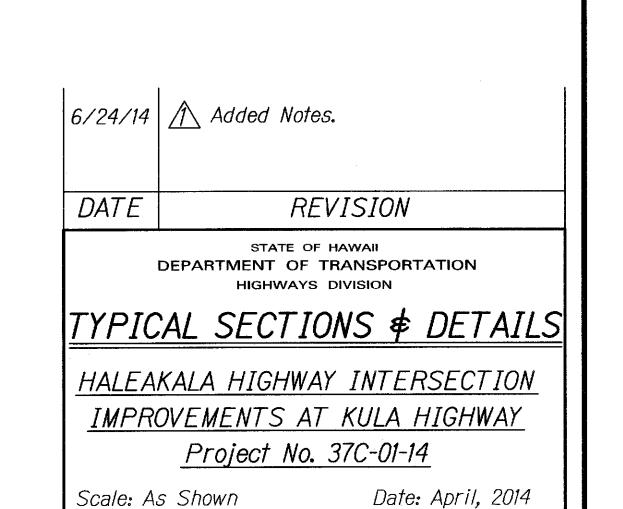


TYPICAL ROAD SECTION - LOWER KULA HIGHWAY STA. 158+85± TO STA. 159+54± STA. 161+08± TO STA. 162+43±

Scale: 1/4" =1'-0"

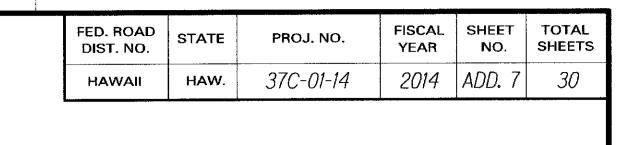
Incidental to Item 634.1000.

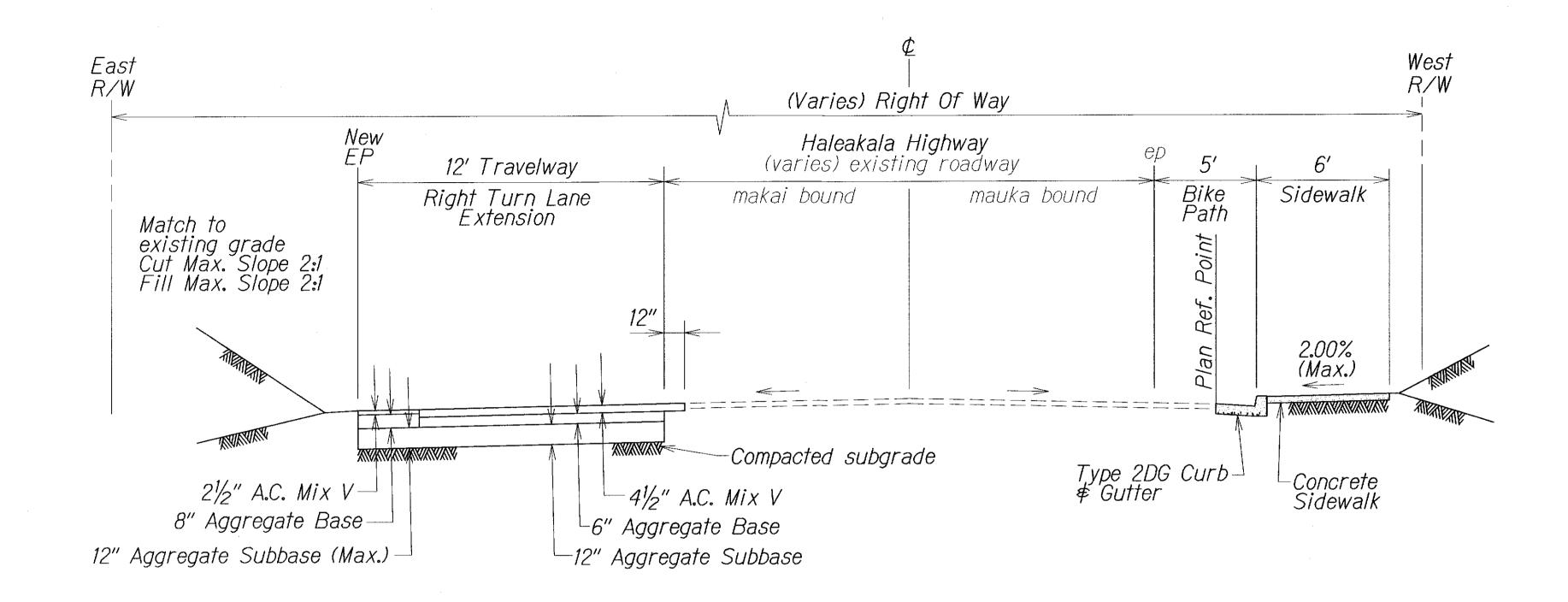
2. All Bed Course and Subbase Course Under Curb and Gutter shall be Incidental to Item No. 638.1000.



OF 3 SHEETS SHEET No. ADD. 6

SURVEY PLOTTED
DRAWN BY X
TRACED BY
DESIGNED BY X
QUANTITIES BY
CHECKED BY

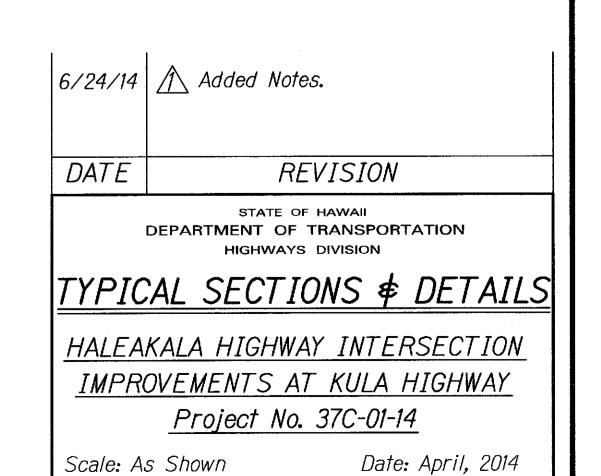




TYPICAL ROAD SECTION - HALEAKALA HIGHWAY Scale: 1/4" =1'-0"

NOTES:

- 1. All Aggregate Base and Subbase shall be Incidental to Item No. 401.1000.
- 1 2. All Bed Course and Subbase under Sidewalk shall be Incidental to Item No. 634.1000.
 - 3. All Bed Course and Subbase under Curb and Gutter shall be Incidental to Item No. 638.1000.



SHEET No. 2 OF 3 SHEETS

ADD. 7

FISCAL | SHEET | TOTAL FED. ROAD STATE PROJ. NO. DIST. NO. YEAR NO. SHEETS 2014 8 37C-01-14 *30* HAW. HAWAII

4'-0" x 6'-6" FLAT WALL MANHOLE x 78" DEEP

NOTES:

- MANHOLE DESIGNED IN ACCORDANCE WITH AASHTO H-20-44 TRAFFIC BRIDGE LOADING USING 6,000 PSI COMPRESSIVE STRENGTH CONCRETE AND 60,000 PSI YIELD STRENGTH ASTM A-706 STEEL REINFORCEMENT PER CALCS. #30591.
- MANHOLE TO BE PLACED ON A 6" BASE OF CRUSHER RUN FOR EASE OF INSTALLATION AND EVEN LOAD DISTRIBUTION.
- □ LIMITS OF COVER OVER ROOF SECTION IS 1'-0" TO 5'-0"
- ☐ INTERIOR WALLS AND CEILING TO BE PAINTED WHITE.
- ☐ PRODUCT TO BE STENCILED: BROOKS PRODUCTS DATE OF POUR PRODUCT MARK NO.

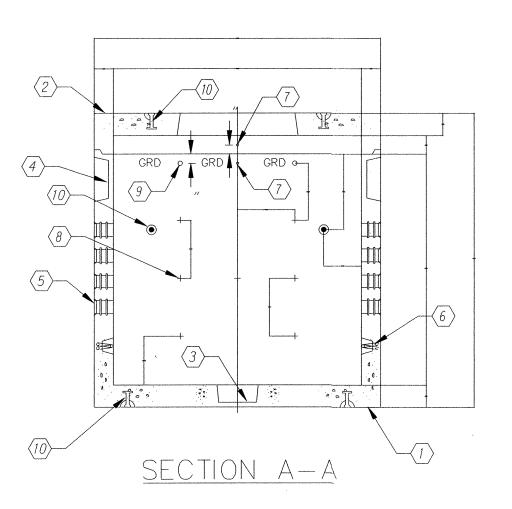
THE FOLLOWING MATERIALS ARE TO BE SHIPPED WITH EACH MANHOLE:

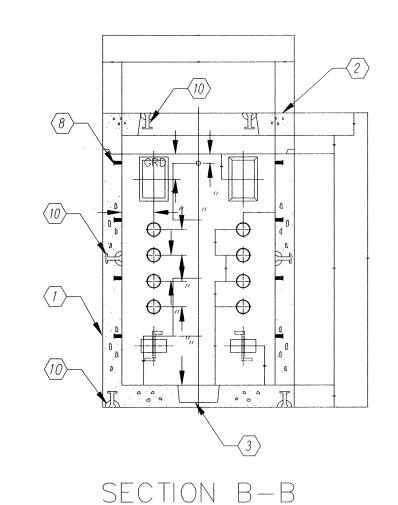
- (a) $7/8" \times 1 3/4"$ GASKET (21 FT REQ'D.)
- 1/2" x 2" HEX HEAD PLATED BOLTS (24 REQ'D.) $1/2" \times 1 1/4"$ HEX HEAD PLATED BOLTS (8 REQ'D.)
- d) 1/2" HEAVY HEX GALVANIZED NUT (8 REQ'D.)
- e) 47 HOLE CABLE RACKS (6)
- "S" SUPPORTS (8 REQ'D.)
-) A-3383 LADDER STEPS (2 REQ'D.)
-) A-3600 LADDER 8' (1 REQ'D.)
- BONDING RIBBON (1 @ 7'-0"))) 1/4" x 3/4" HEX HEAD PLATÉD BOLTS (4 REQ'D.)
- (k) 1/4" FENDER WASHER (8 REQ'D.).

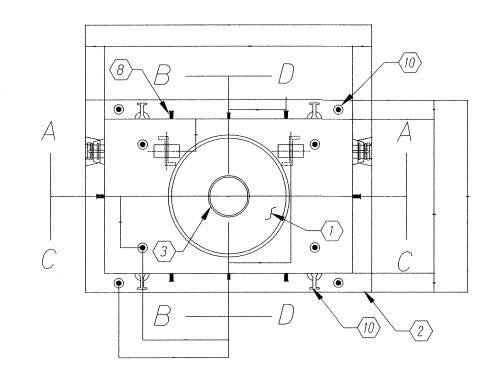
ORDERING INFORMATION:

500FM78-GT33 FOR ASSEMBLY AS SHOWN. APPROVED FOR GENERAL TELEPHONE SPECS. TOTAL WEIGHT OF ASSEMBLY SHOWN IS 17,153#.

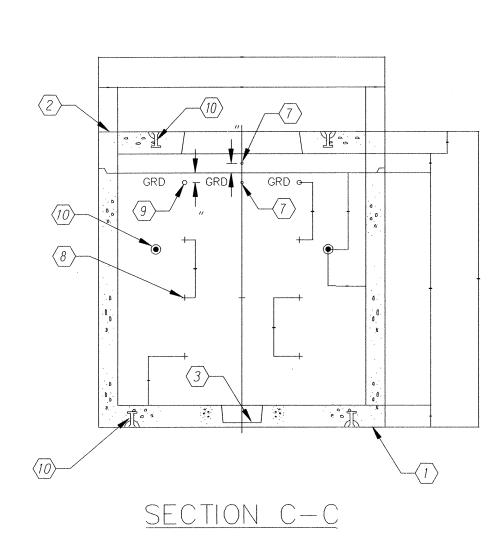
- 500-B72-33, 72" BOTTOM SECTION.(R500-B72-33) WT. 13,629#. 500-R6-33, 6" ROOF SECTION.(R500-R6-33) WT. 3,524#.
- 3. 12" \times 13" DIA. SUMP \times 4 1/2" DEEP. LOCATE AS FOLLOWS:
- LOCATE AS FOLLOWS: BOTTOM SECTION (1) CORE MTD. $7" \times 12" \text{ K.O. } \times 4 \text{ 1/2" DEEP. DRAFT AS FOLLOWS: 1" TYP.:$
- BOTTOM SECTION (4) SHELL MTD. 5. 4" DIA. TERMS. LOCATE AS FOLLOWS: BOTTOM SECTION (16)
- SHELL MTD. 6. 7/8" DIA. \times 3 3/8" GALV. PULL IRON W/LEGS (HPI1008). L'OCATE AS FOLLOWS: BOTTOM SECTION (2) CORE MTD. 1 ROOF SECTION (2) CORE MTD.
- 7. O1/4" BRONZÈ ÍNSERT WELDED TO THE INTEGRAL STEEL REBAR CAGE. LOCATE AS FOLLOWS: BOTTOM SECTION (2) CORE MTD. ROOF SECTION (2) CORE MTD.
- +1/2" PLASTIC INSERT. LOCATE AS FOLLOWS: BOTTOM SECTION (20) CORE MTD.
- 01/2" BRONZE INSERT WELDED TO THE INTEGRAL STEEL REBAR CAGE. LOCATE AS FOLLOWS: BOTTOM SECTION (6) CORE MTD.
- `•2 TON x 3 3/8" GALV. RISS FOR HANDLING. LOCATE AS FOLLOWS: BOTTOM SECTION (4) CORE MTD., (4) SHELL MTD.; TOP SECTION (4) SURFACÈ MTD.

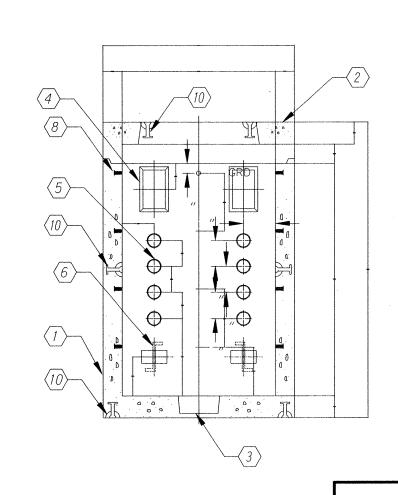






PLAN VIEW





SECTION D-D

STATE OF HAWAII
DEPARTMENT OF TRANSPORTATION HIGHWAYS DIVISION

4'-0" X 6'-6" MANHOLE DETAILS

HALEAKALA HIGHWAY INTERSECTION IMPROVEMENTS AT KULA HIGHWAY Project No. 37C-01-14

Not to Scale

Date: April, 2014

SHEET No. 3 OF 3 SHEETS

