



NOTE

1. FOR GENERAL NOTES AND MISCELLANEOUS DETAILS REFER TO DWG. 16688 (2 SHEETS).
2. FOR DUCT ENTRANCES, DEPTH AND LOCATIONS OF PULLING IRONS, SEE HANDHOLE DEVELOPMENTS OF PROJECT CONCERNED.
3. SEE PROJECT DRAWINGS FOR LOCATION OF HANDHOLE CONCERNED.
4. TOP OF HANDHOLE SHALL MATCH NEW AND/OR EXISTING GRADES UNLESS OTHERWISE SHOWN OR NOTED ON PLANS OF PROJECT CONCERNED.
5. MAXIMUM CLEARANCES BETWEEN REMOVABLE CONCRETE COVER SLABS AND CONCRETE OPENING AT THE SUPPORTS MUST BE KEPT. CONCRETE CONTRACTOR SHALL MEASURE COVER SLAB STEEL FRAME AFTER FABRICATION TO OBTAIN PROPER CLEARANCES. ANY VARIATION IN CLEARANCES SHALL BE CORRECTED TO THE SATISFACTION OF THE ENGINEER AT CONTRACTOR'S EXPENSE.

## REINFORCED CONCRETE QUANTITIES

QUANTITY OF MATERIALS FOR DEPTH "D" = 6'-6"

Total Concrete	= 4.39 Cu Yds.
Total Reinf. Steel	= 565 Lbs.
Total Misc. Steel	= 168 Lbs.

WEIGHT PER REMOVABLE CONCRETE COVER

Concrete	= 150 Lbs.
Reinf. Steel	= 7 Lbs.
Misc. Steel	= 42 Lbs.

TOTAL = 199 Lbs.

MATERIALS FOR 6" DEPTH OF 6" THICK WALL

Concrete = 0.24 Cu. Yds.  
Reinf. Steel = 35 Lbs.

FOR USE IN AREAS NOT SUBJECT  
TO VEHICULAR TRAFFIC

2	9-14-81	ADDED 1-B5 ADD. REINF. @ PULL'G IRON	RL	WR	MR
1	6-3-77	ADDED NOTES AND CHANGED PULL'G. EYE INSERTS TO PULL'G IRONS.	RQ	SP	ST B1
0	6-28-75	REDRAWN	SA	SP	MR
NO.	DATE	REVISIONS	BY	CHK'D	APP'D

HANDHOLE TYPE 57  
(5' - 0" X 7' - 0")  
UNDERGROUND STANDARDS

DESIGNED <i>Gordon</i>	DRAWN <i>Ry</i>	DATE 5-21-75	SCALE: AS NOTED
CHECKED	ELEC. <input type="checkbox"/> MECH. <input type="checkbox"/> <u>PLUM</u> <input checked="" type="checkbox"/>	ENGINEERING DESIGN DEPARTMENT HAWAIIAN ELECTRIC CO., INC. HONOLULU, HAWAII	
APPROVAL <i>J J Tanno</i> <i>H K Chiu</i>		DRAWING NUMBER 18843	REV. 2