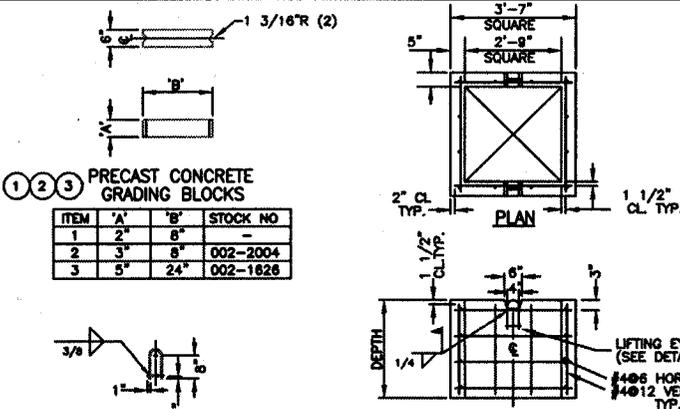


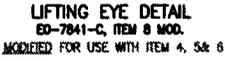
**REVISIONS**

LUIS ORTEGA 4/14/92	10	REDRAWN TO CADAM. REDESIGNED PRECAST CONCRETE COLLAR AND FIELD-CONSTRUCTED CHIMNEYS. UPDATED BILL OF MATERIAL AND INFORMATION.
G.K. 4-9-92 JP		
LUIS ORTEGA 10/22/97	11	REDRAWN TO AUTOCAD. CHANGED MINIMUM COVER FOR NEW CONSTRUCTION TO 1 1/2". (METHOD 2)
AR 10/22/97		



**1 2 3 PRECAST CONCRETE GRADING BLOCKS**

ITEM	'A'	'B'	STOCK NO
1	2'	8"	-
2	3'	8"	002-2004
3	5'	24"	002-1826



LIFTING EYE DETAIL  
EO-7841-C, ITEM 8 MOD.  
MODIFIED FOR USE WITH ITEM 4, 5 & 6

**4 5 6 PRECAST CONCRETE COLLAR**

**BILL OF MATERIAL**

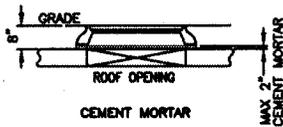
DEPTH	ITEM	QUANTITY	DESCRIPTION
12"	4	8	#4 HORIZONTAL REBAR 3'-3" LG.
	12	#4 VERTICAL REBAR 0'-9" LG.	
	0.2 CU. YD.	CONCRETE	SPEC. EO-1008, CLASS I
1'-6"	5	2	LIFTING EYE-MODIFIED SEE DETAIL
	12	#4 HORIZONTAL REBAR 3'-3" LG.	
	12	#4 VERTICAL REBAR 1'-3" LG.	
2'-0"	6	0.3 CU. YD.	CONCRETE SPEC. EO-1008, CLASS I
	16	2	LIFTING EYE-MODIFIED SEE DETAIL
	12	#4 HORIZONTAL REBAR 3'-3" LG.	
		12	#4 VERTICAL REBAR 1'-3" LG.
		0.4 CU. YD.	CONCRETE SPEC. EO-1008, CLASS I
		2	LIFTING EYE MODIFIED SEE DETAIL

**APPROXIMATE WEIGHT IN POUNDS**

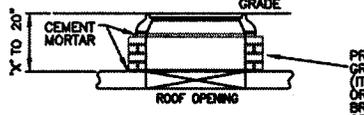
ITEM	REINF. BARS	TOTAL WEIGHT	STOCK NO.
4	24	797	002-1998
5	37	1,187	002-1568
6	50	1,588	002-1950

**ITEMS**

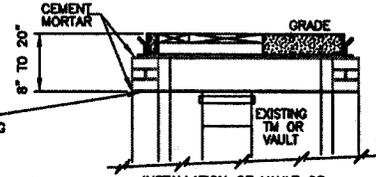
**METHODS**



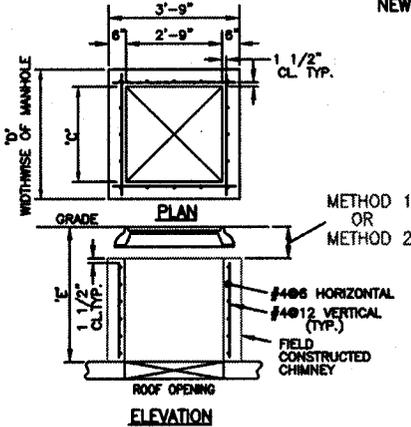
**METHOD 1 (NO COLLAR)**  
NOT FOR NEW CONSTRUCTION  
REPLACEMENT PURPOSES ONLY



PRECAST CONCRETE GRADING BLOCKS OR BRICKS  
**METHOD 2**  
REPLACEMENT PURPOSES 'X' = 8"  
NEW CONSTRUCTION 'X' = 14"



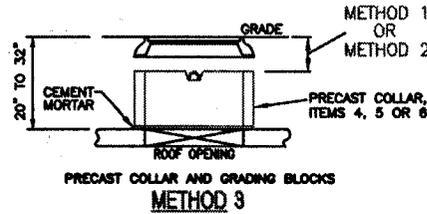
INSTALLATION OF VAULT OR TRANSFORMER MANHOLE ROOF SLABS WITH GRADING BLOCKS OR BRICKS TO OBTAIN GRADE.  
**METHOD 2**  
(FOR VAULT ROOF SLABS)



**FIELD CONSTRUCTED CHIMNEY**

METHOD	'C'	'D'	'E'
4	2'-9"	3'-9"	2'-8" TO 3'-8"
6	4'-5"	5'-5"	1'-8" TO 4'-0"

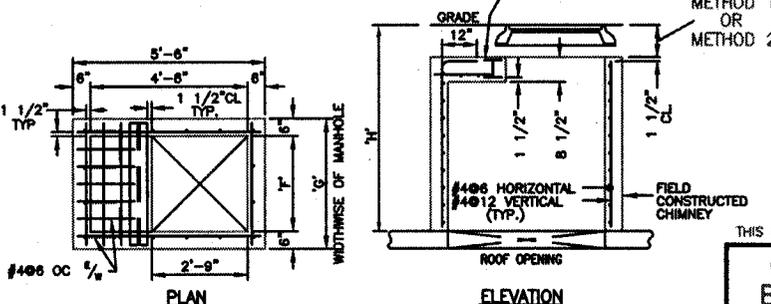
FIELD CONSTRUCTED CHIMNEY  
**METHODS 4 AND 6**



PRECAST COLLAR AND GRADING BLOCKS  
**METHOD 3**

**NOTE:**  
FIELD CONSTRUCTED CHIMNEY.  
REVIEW DESIGN WITH STRUCTURES ENGINEER  
OF THE DISTRIBUTION EQUIPMENT SECTION  
PRIOR TO CONSTRUCTION.

W 6x 25x 1/2" LONG  
WRAP TOP AND BOTTOM FLANGES  
WITH WWF 2x2-12/12  
BEAM WRAPPER (GALV)  
FOR ENTIRE LENGTH.



**FIELD CONSTRUCTED CHIMNEY**

METHOD	'F'	'G'	'H'	'J'
5	2'-9"	3'-9"	3'-8" TO 9'-8"	3'-6"
7	4'-5"	5'-5"	4'-0" TO 10'-0"	5'-2"

FIELD CONSTRUCTED CHIMNEY  
**METHODS 5 AND 7**

**SPECIFICATIONS:**

ALL REINFORCING BARS SHALL BE BILLET STEEL, DEFORMED, CONFORMING TO ASTM A-815, GRADE-60. REINFORCING BARS SHALL BE EPOXY COATED IN ACCORDANCE WITH ASTM A 775. REINFORCING BARS SHALL BE WIRED TIED AT ALL CONTACT POINTS WITH PLASTIC COATED TIE WIRE. REINFORCEMENT SUPPORTED FROM FORMWORK SHALL REST ON COATED WIRE BAR SUPPORTS. EPOXY COATING DAMAGED AS A RESULT OF HANDLING OR CUTTING OF REBARS SHALL BE REPAIRED WITH PATCHING MATERIAL CONFORMING TO ASTM A 775. ALL REINFORCING BARS SHALL HAVE 1 1/2" MINIMUM OF CONCRETE PROTECTION, UNLESS OTHERWISE NOTED. CONCRETE CLASS I (FOR PRECAST SECTIONS) AND CLASS II (FOR FIELD POURED SECTIONS) MUST MEET EO-1008. NO. 1 COMMON RED BRICK (STK 000-0372) MUST MEET ASTM DESIGNATION C82 (GRADE SW). CEMENT MORTAR MUST MEET EO-100,167 (STK# 000-0208) STRUCTURAL STEEL MUST MEET ASTM DESIGNATION A-36. WELDING MUST MEET EO-11320.

**INSTALLATION NOTES:**

FOLLOW METHOD 1 THRU 7 TO SET CASTING OVER MANHOLE ROOF OPENING OR CHIMNEY. FOLLOW METHOD 2 (FOR VAULT ROOF SLABS) TO SET STEEL TYPE S FRAME OVER TMs OR VAULTS.

**REF. SPECS.**

EO-1092 ..... INSTALLATION OF FRAMES AND/OR CASTINGS OVER ELECTRIC DISTRIBUTION STRUCTS. IN ROADWAY

THIS DWG SUPERSEDES EO-2725-G, EO-2974-C AND EO-9908-G

**CHIMNEYS, COLLARS AND GRADING BLOCKS FOR MANHOLES & VAULTS CONSTRUCTION AND INSTALLATION**

CONSOLIDATED EDISON COMPANY OF N.Y., INC.  
DISTRIBUTION ENGINEERING DEPT

DATE 6-21-81 DWG. NO. EO-10321-B REV. 11  
LAST REV. 10/22/97

DESIGNED BY	DATE	CHECKED BY	DATE
CONCURRED	2-8-87	APPROVED	4-1-87
TE		SCALE	NONE
REVISIONS	EQUATIONS	4-24-87	
ENG. SECT. MANAGER		DATE	