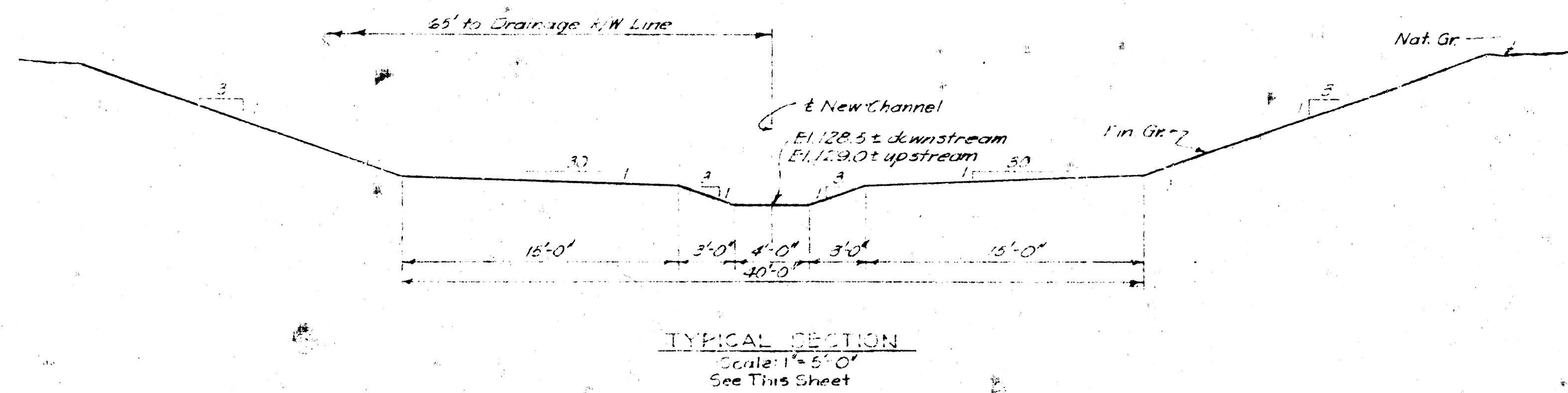
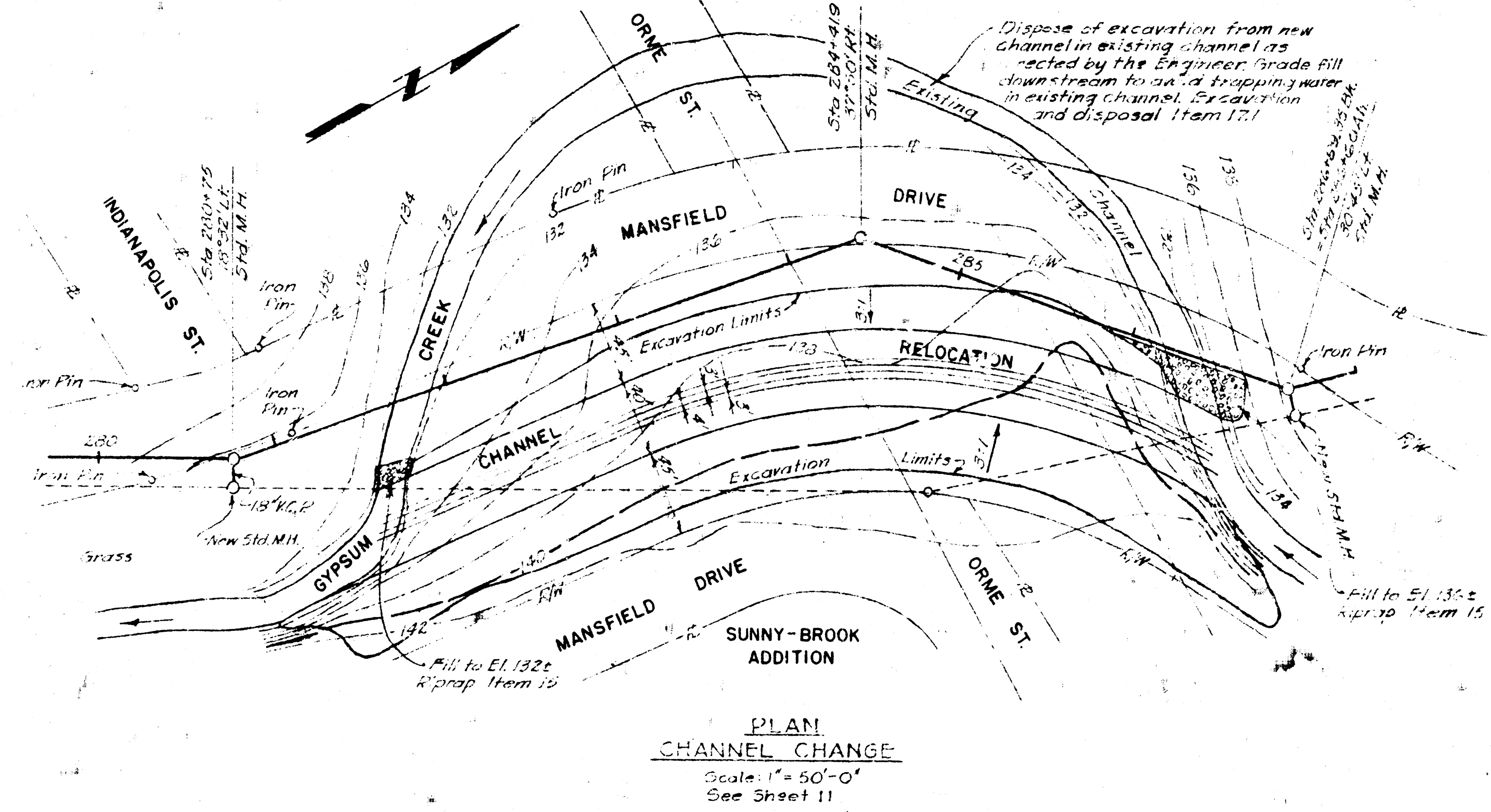
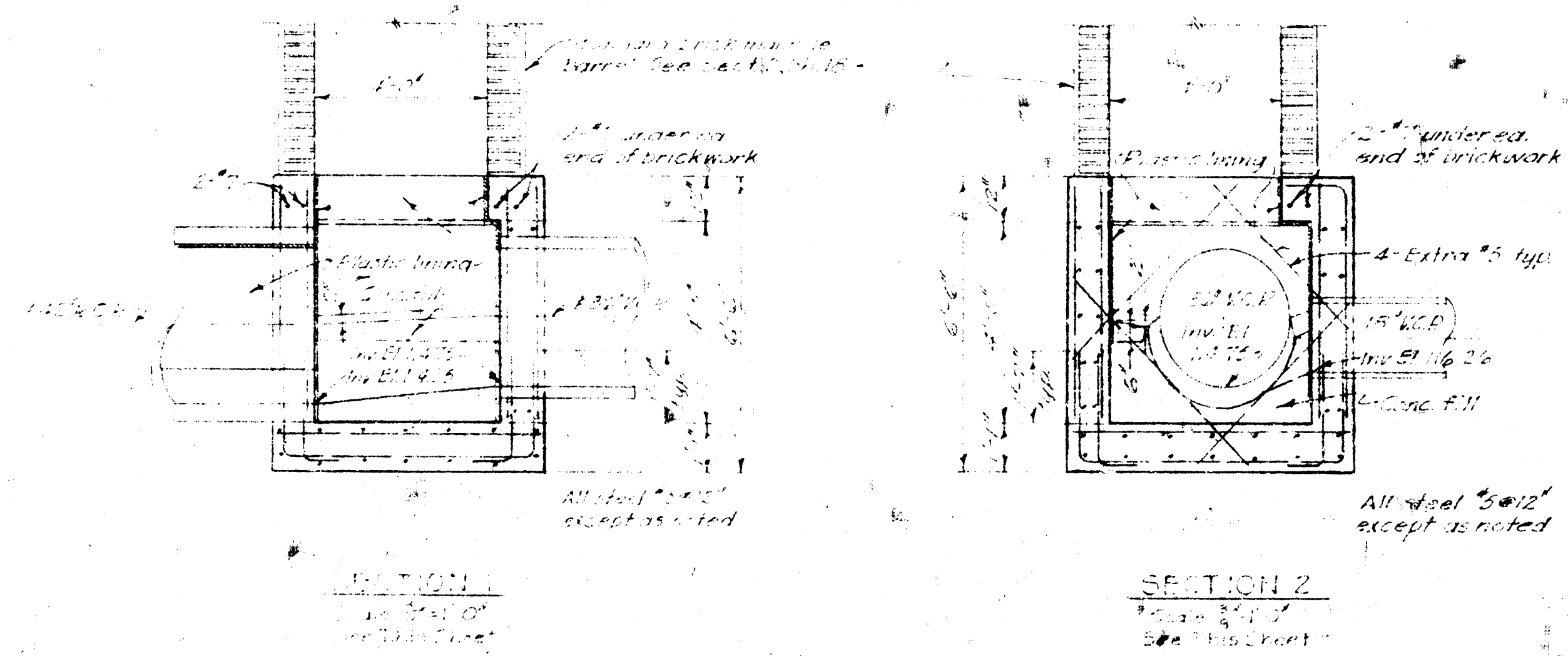
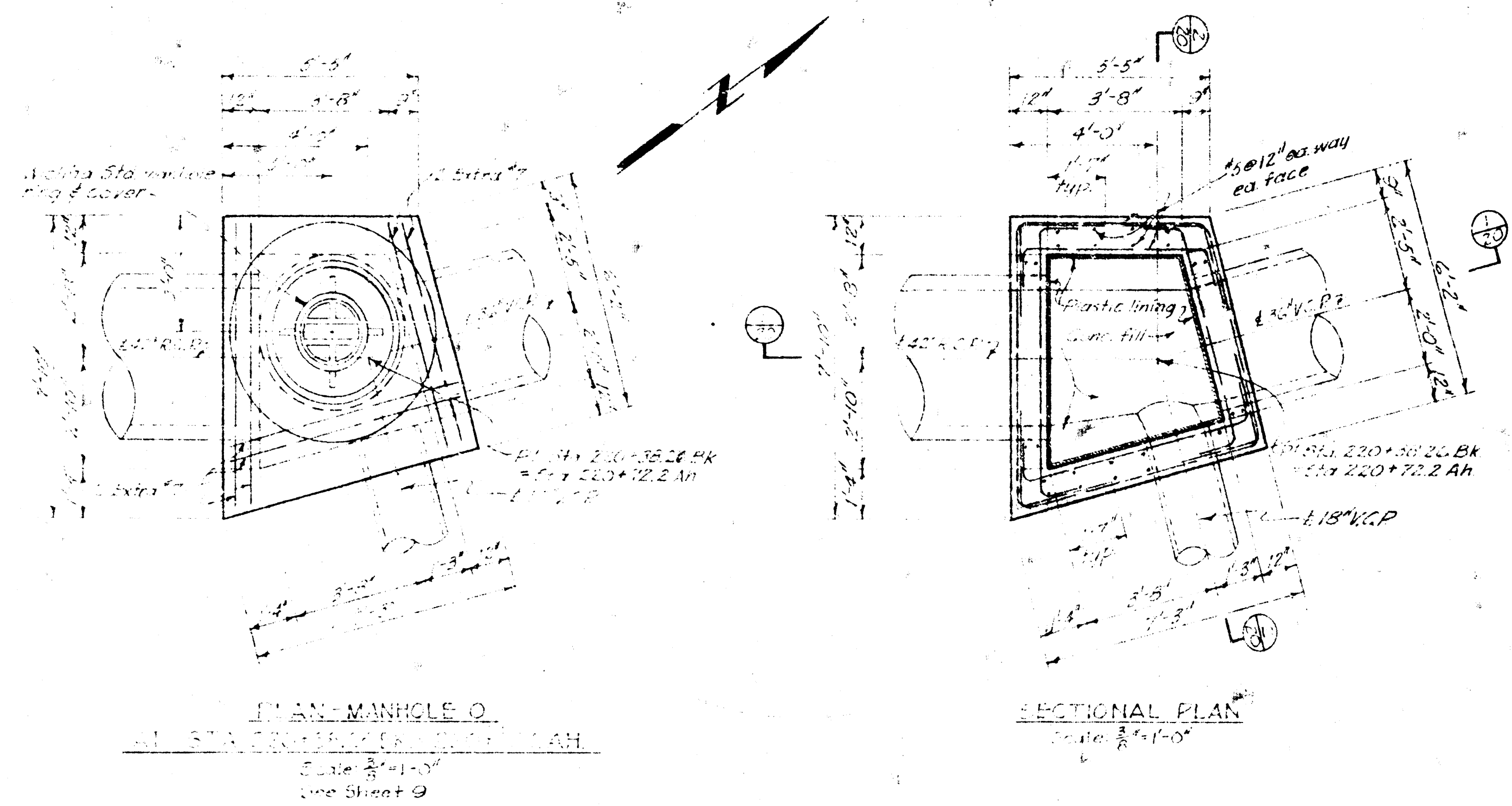
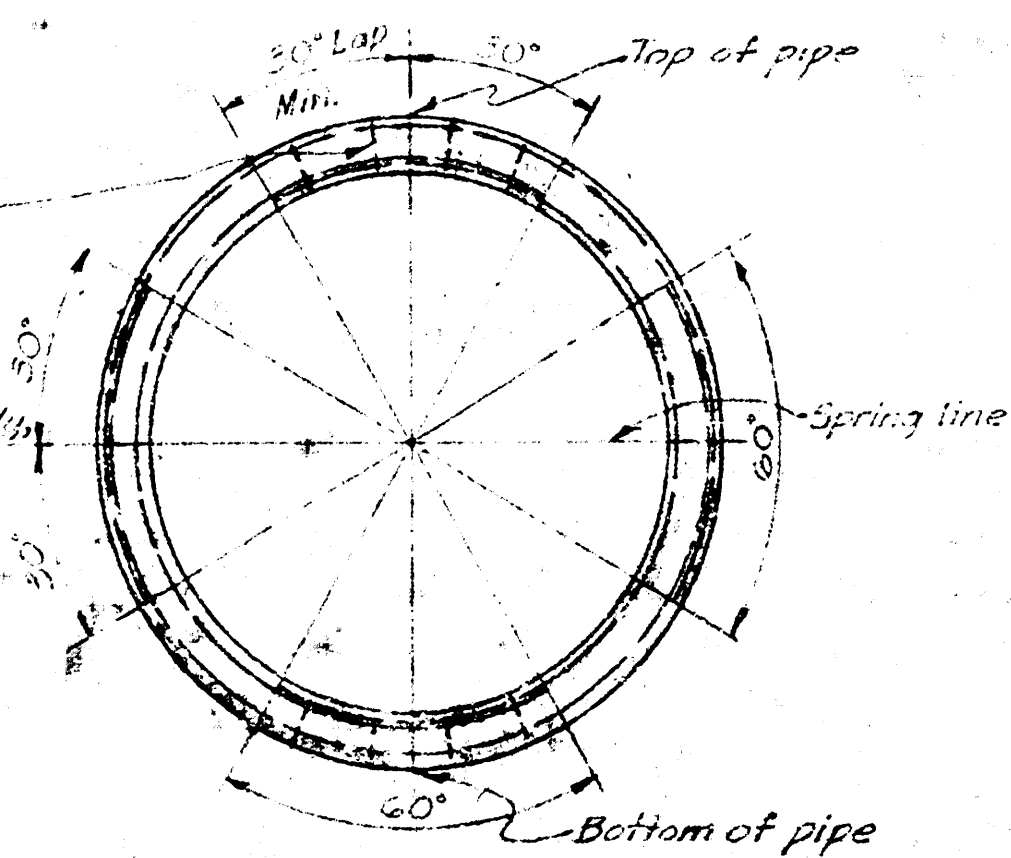




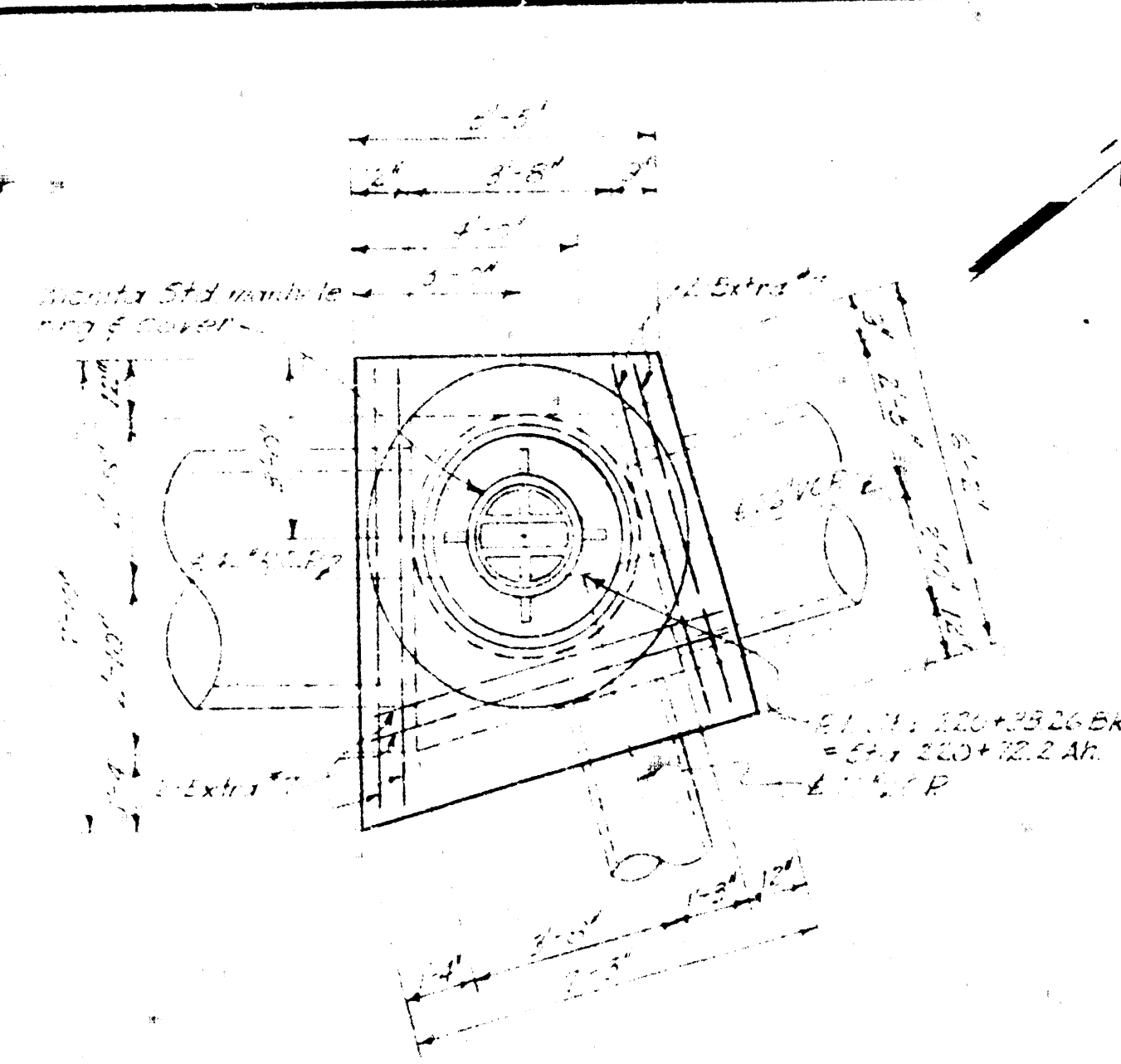
Minimum 12" steel ties each way - not less than 3" ties each top and bottom per ft. of pipe.
Item 32 Extra Strength Pipe
Item 33 Special Design Pipe
Ties 6" minimum c/c's. longitudinally, not less than 4" ties each top and bottom each 1/2 lin. ft. of pipe.



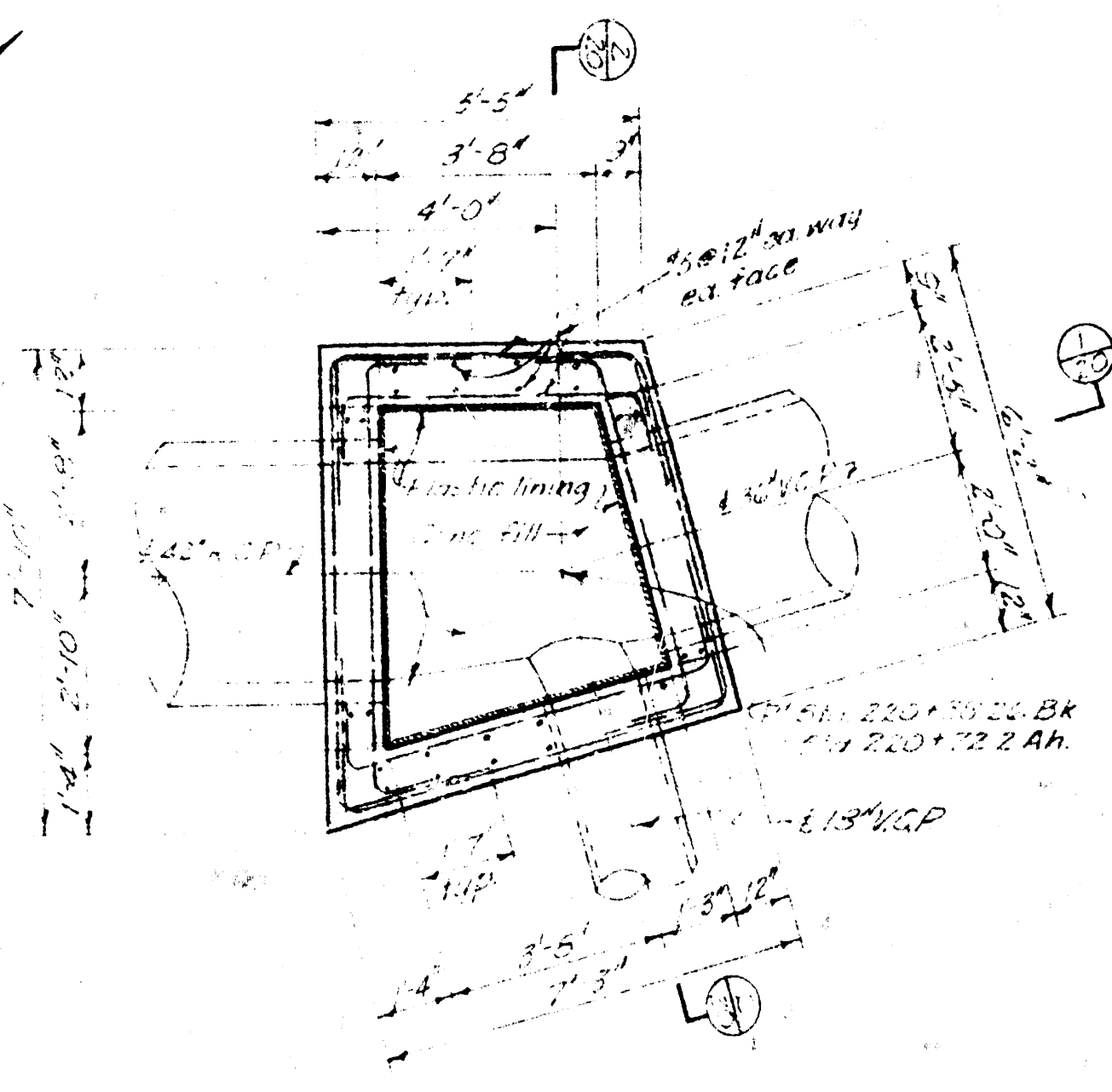
Notes:
1. Inside walls and top of manhole structures to be lined with plastic lining as shown.
2. No lining required in concrete to supports of manhole structures, or which enclose pipe entering or leaving manhole.
3. Pipe entering or leaving manhole shall be encased with concrete as shown in M.H. B. sh. 13d-22.
4. Reinforce each pipe opening with 4 extra bars in each face, placed as shown in Sect. 2 of this sheet.

REVISION	REVISION	REVISION
No.	Date	By
1	1/20/56	WLS
WICHITA, KANSAS		
ALTERING, REPAIRING, OR RECONSTRUCTING THE		
WAR INDUSTRIES SEWER		
MANHOLE O, R.C.P. REINFORCING DETAIL		
CHANNEL CHANGE		
BLACK & VEATCH		
CONSULTING ENGINEERS, KANSAS CITY, MO.		
DESIGNED BY RLM	CHECKED BY RES	DATE 1/20/56
DETAILS BY RLM	APPROVED BY RES	DATE 1/20/56
SHEET		20 OF 20

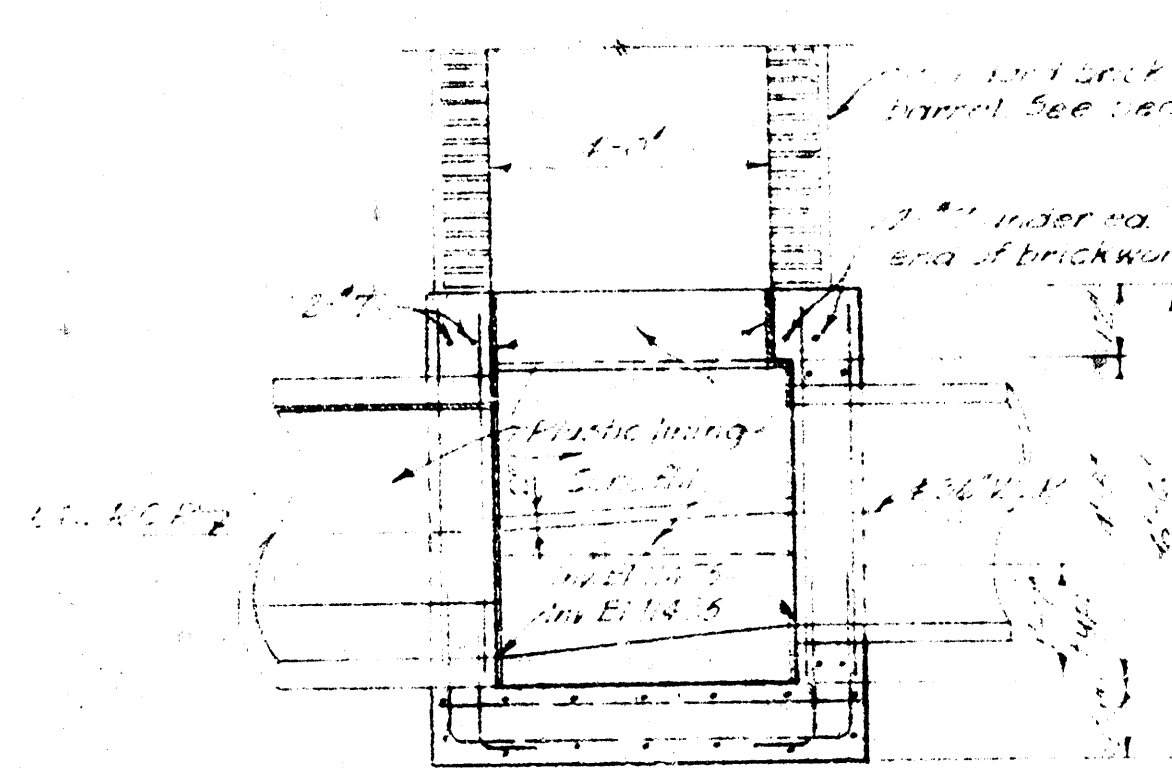
Revised
W.L.S.
@ Orme &
Mansfield



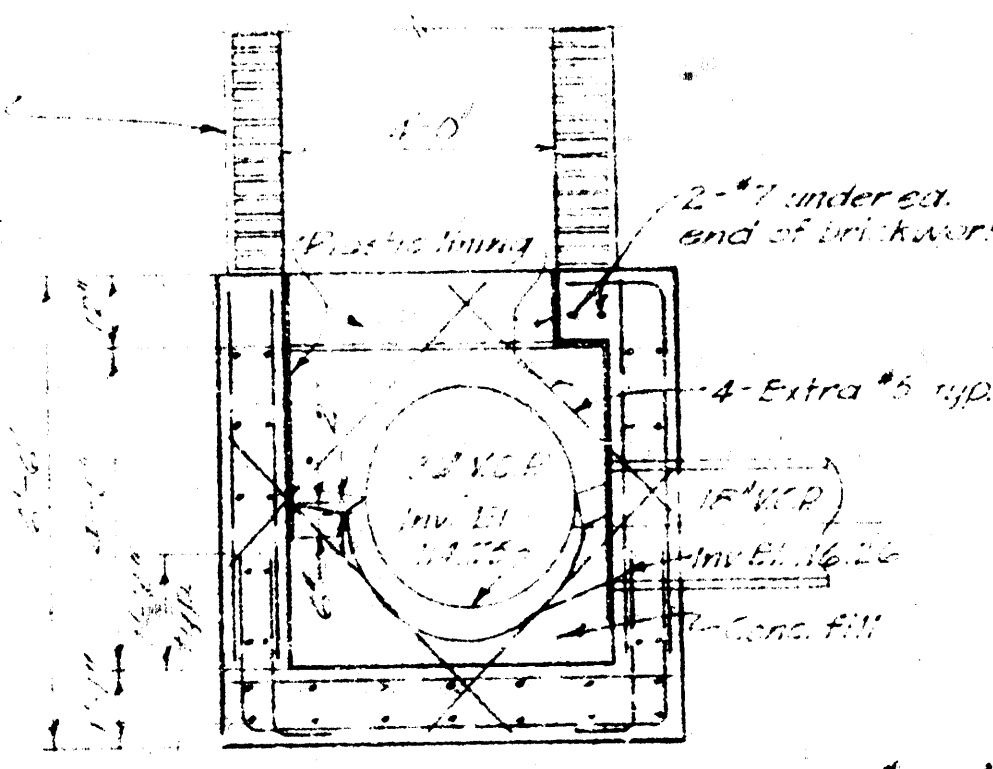
PLAN-MANHOLE O.
Scale 1"=5'-0"
See Sheet 9



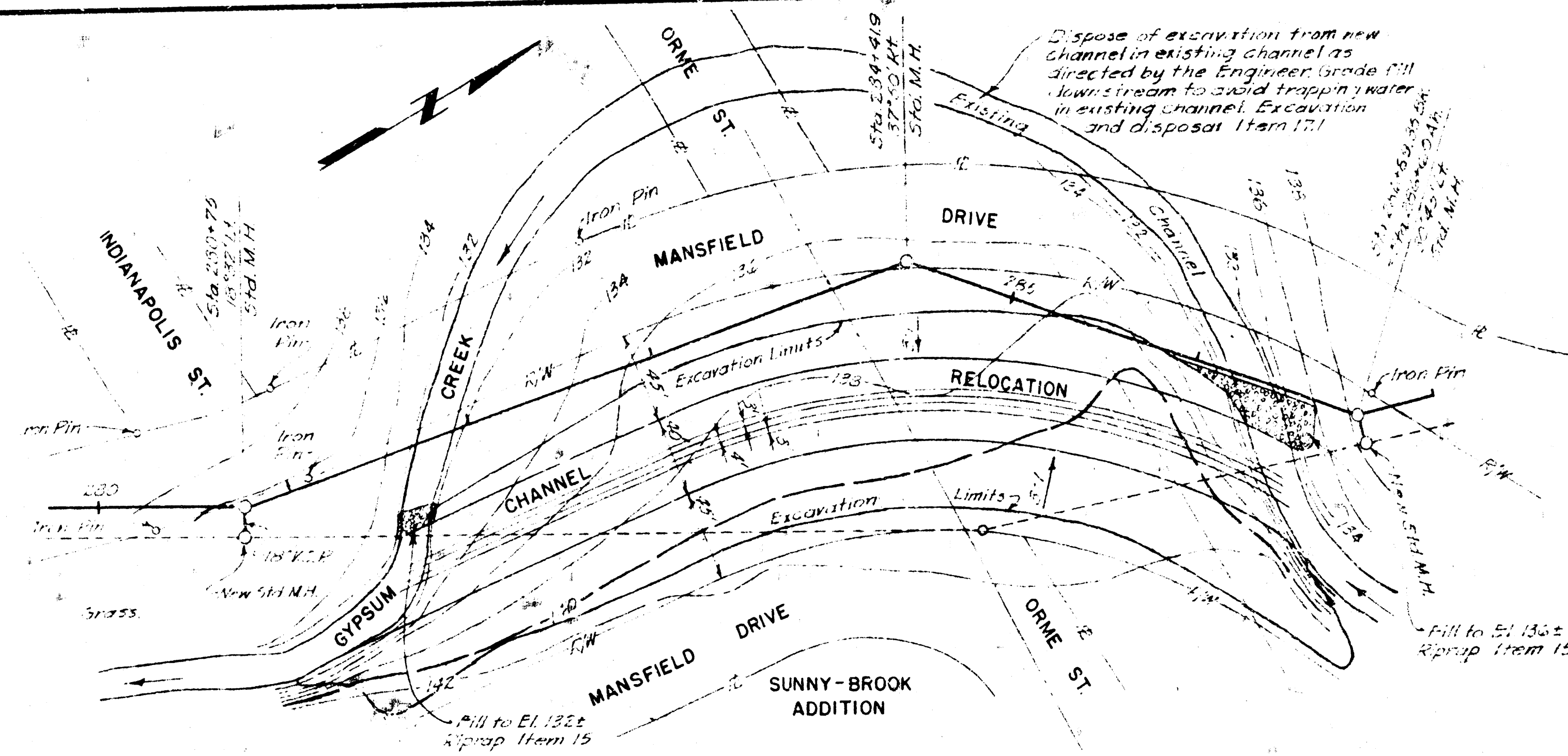
SECTIONAL PLAN
Scale 1"=5'-0"



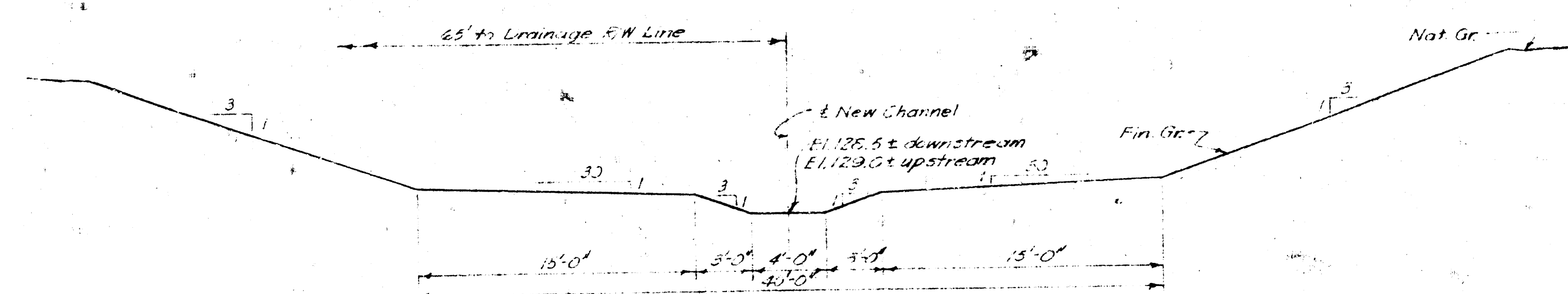
SECTION 1
Scale 1"=5'-0"
See Sheet 9



SECTION 2
Scale 1"=5'-0"
See Sheet 9

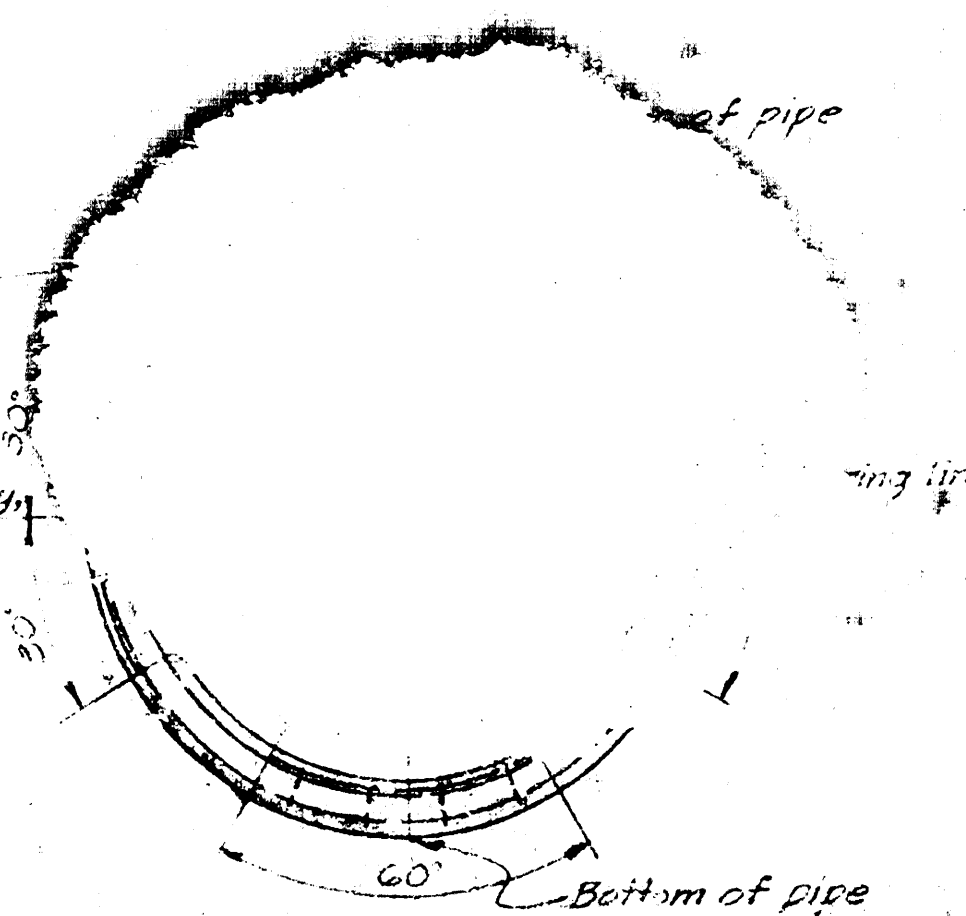


PLAN
CHANNEL CHANGE
Scale 1"=50'-0"
See Sheet 11



TYPICAL SECTION
Scale 1"=5'-0"
See This Sheet

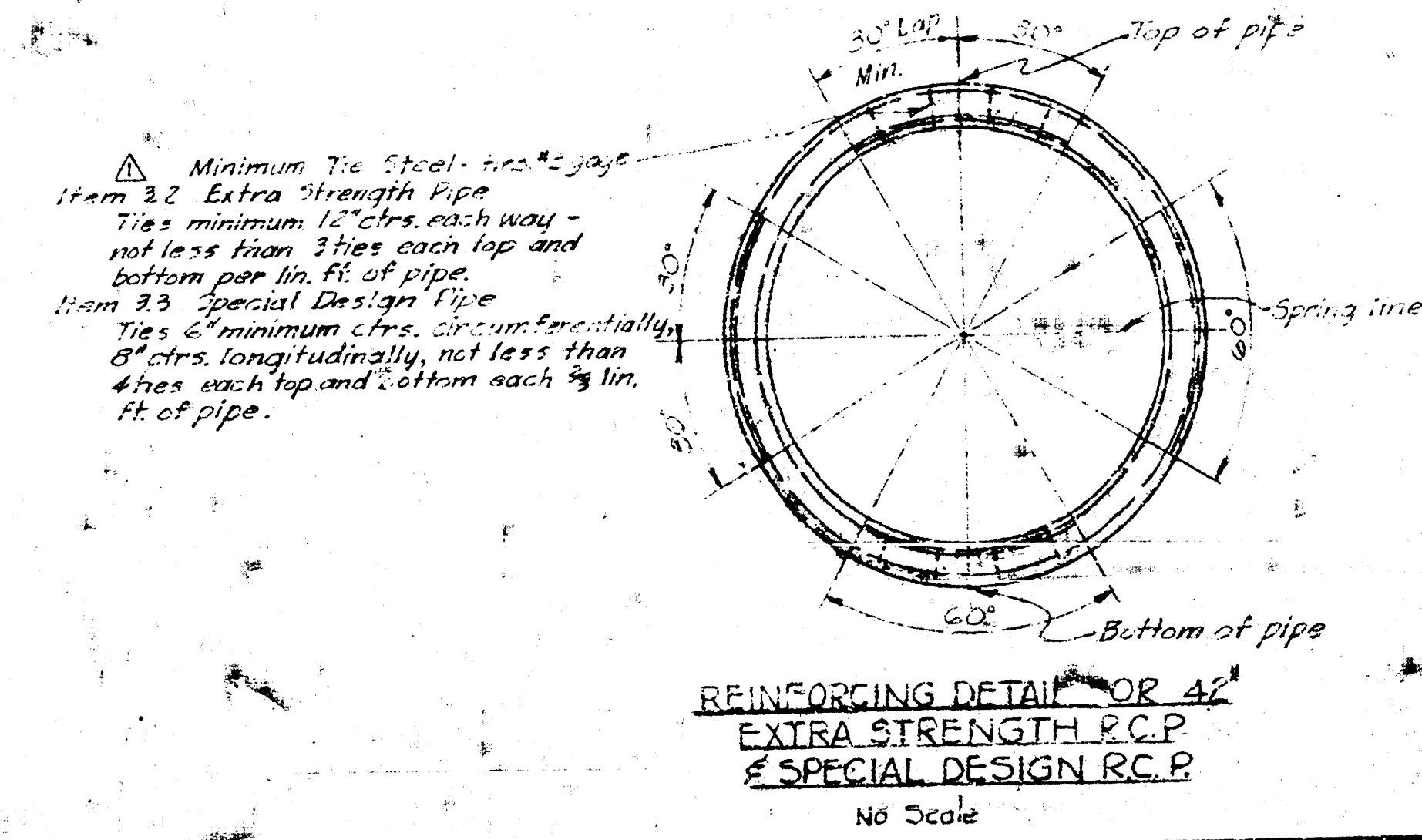
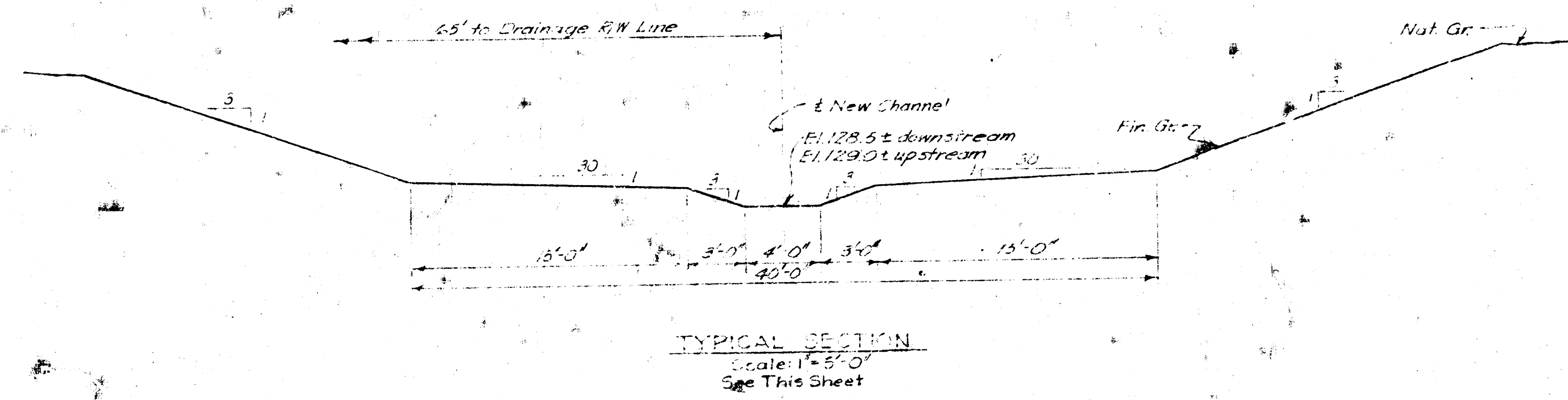
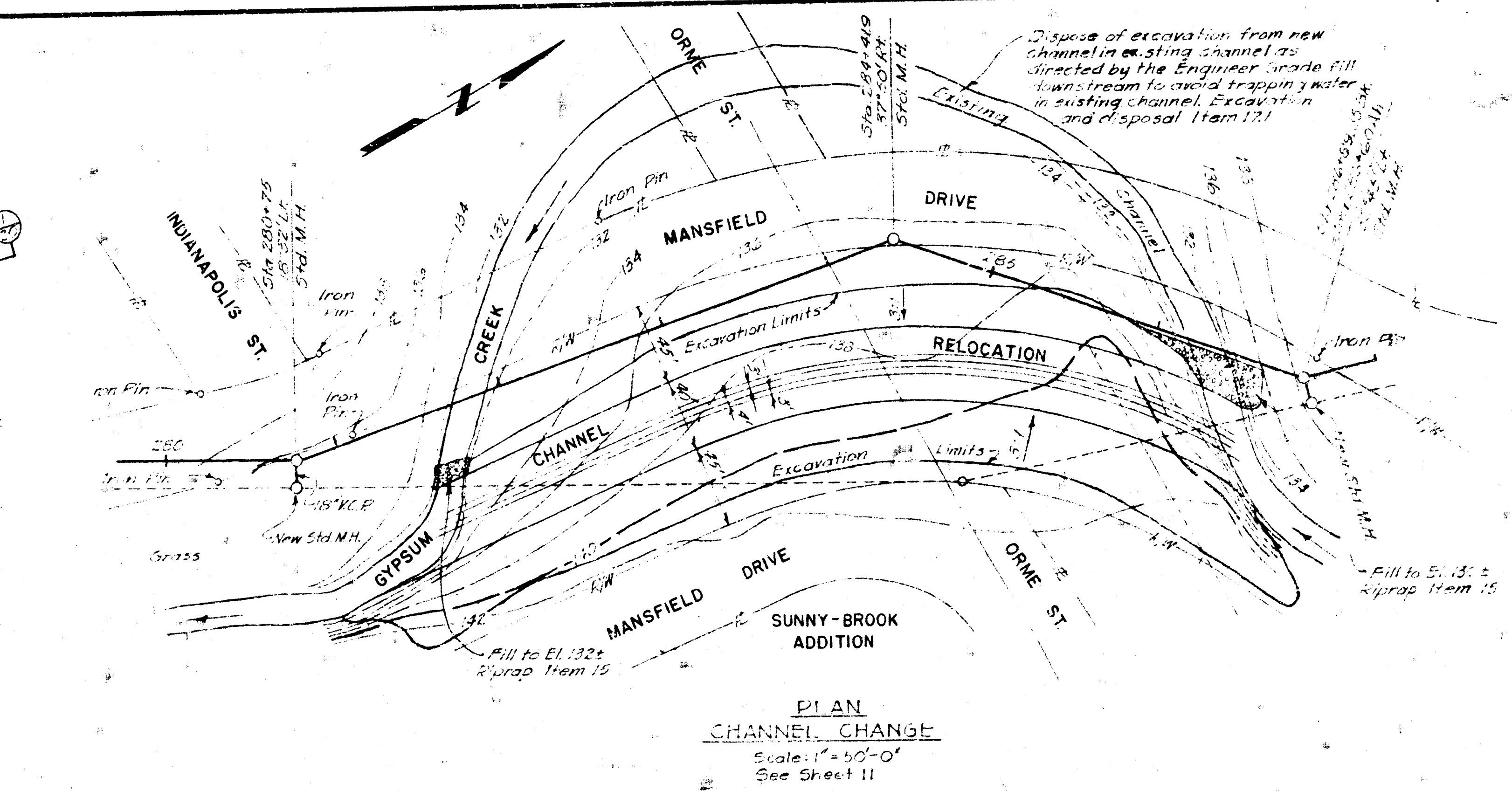
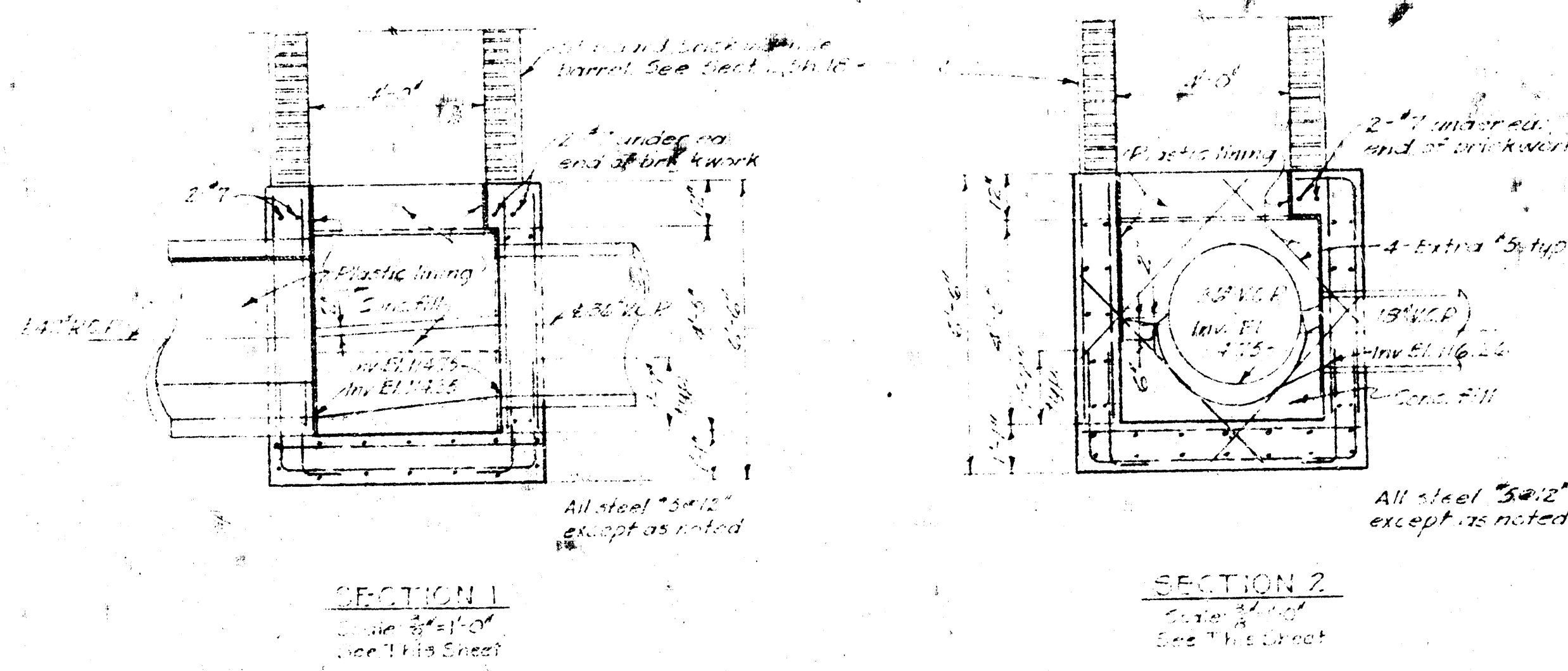
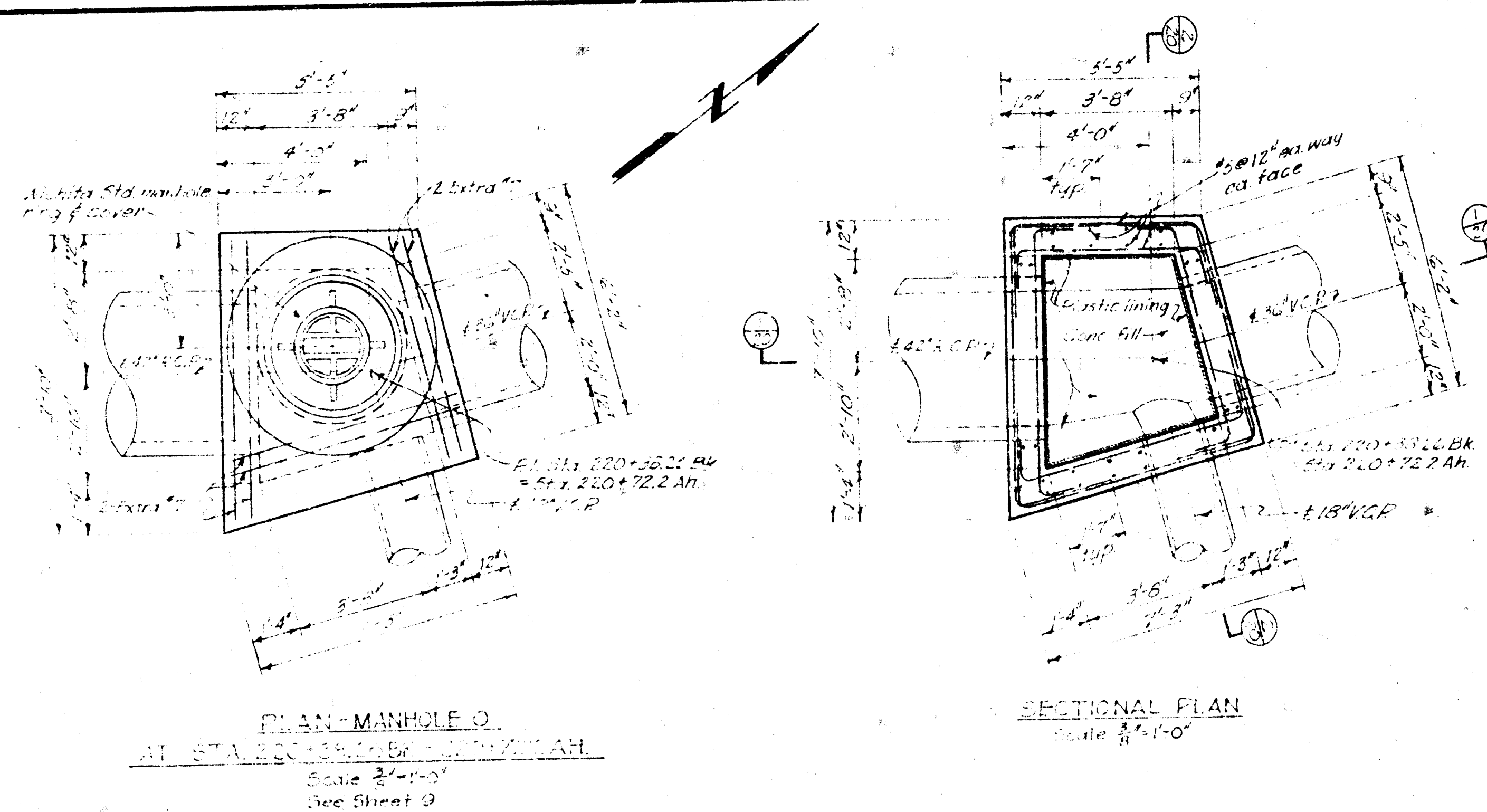
- Maximum Steel: 40# bars
- Item 32 Extra Strength Pipe
- Ties minimum 12" c/s each way - not less than 3/4" dia. each top and bottom per 1/4" of pipe.
- Item 33 Special Design Pipe
- Ties 6" minimum c/s, circumferentially 8" c/s longitudinally, not less than 4/8" dia. each top and bottom each 1/4" of pipe.



REINFORCING DETAIL FOR 42"
EXTRA STRENGTH R.C.P.
SPECIAL DESIGN R.C.P.

Note:
Inside walls and top of manhole structures to be lined with plastic lining as shown.
No lining required on concrete invert of manhole structures or brick barrels.
Pipe entering or leaving manhole shall be encased with concrete to elevation M.H. B 9h.13 of 20.
Reinforce each pipe opening with 4 extra #5 bars in each face, placed as shown in Sect. 2 of this sheet.

Reinforcing Detail for 42" R.C.P.	By R.M. UDDI
No. 10	Revised
WICHITA, KANSAS	
ALTERING, REPAIRING, OR RECONSTRUCTING THE	
WAR INDUSTRIES SEWER	
MANHOLE O, R.C.P. REINFORCING DETAIL	
CHANNEL CHANGE	
BLACK & VEATCH	
CONSULTING ENGINEERS, KANSAS CITY, MO.	
DESIGNED BY R.M. UDDI	CHECKED BY R.F.S.
DATE 12-29-55	DATE 1-2-56
APPROVED BY R.F.S.	DATE 1-2-56
SHEET 20 OF 20	



JAN 20 1955

Notes:
 1. Insulate water and type of manhole structures to be installed with plastic lining as shown.
 2. No lining required in concrete structures or brick barrels.
 3. Pipe entering or leaving a structure shall be encased with concrete as shown in Plan M.H. B. Sh. 13 of 20.
 4. Reinforce each pipe entering with 4 extra bars in each face, placed as shown in Section 2 of this sheet.

Revised	By	Checked	By
1/20/55	KLW	1/20/55	KLW

WICHITA, KANSAS
 ALTERING, REPAIRING, OR RECONSTRUCTING THE
 WAR INDUSTRIES SEWER

**MANHOLE O, R.C.P. REINFORCING DETAIL
 CHANNEL CHANGE**

BLACK & VEATCH
 CONSULTING ENGINEERS, KANSAS CITY, MO.

DESIGNED BY RES
 CHECKED BY RES
 APPROVED BY RES
 DATED 1/15/55

SHEET 20 OF 20