

# ARLANZA TRUNK SEWER INTERCEPTORS

## CITY OF RIVERSIDE

### RIVERSIDE, CALIFORNIA

MAYOR - EDWARD V. DALES

CITY COUNCIL

JOHN H. BACKSTRAND

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JOHN M. SOTELO

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JOSEPH L. RENCK

BRUCE B. BETZ

CITY MANAGER - JOHN WENTZ

DIRECTOR OF PUBLIC WORKS - JAMES F. MARTINEK

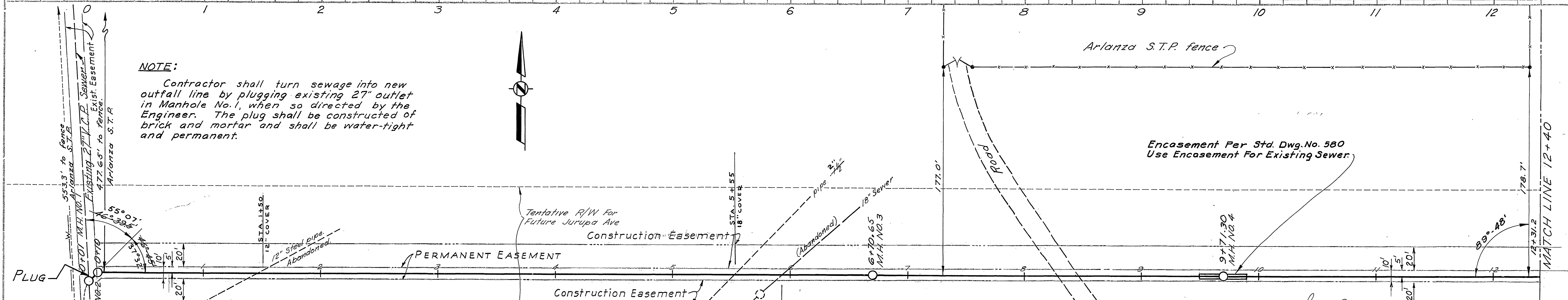
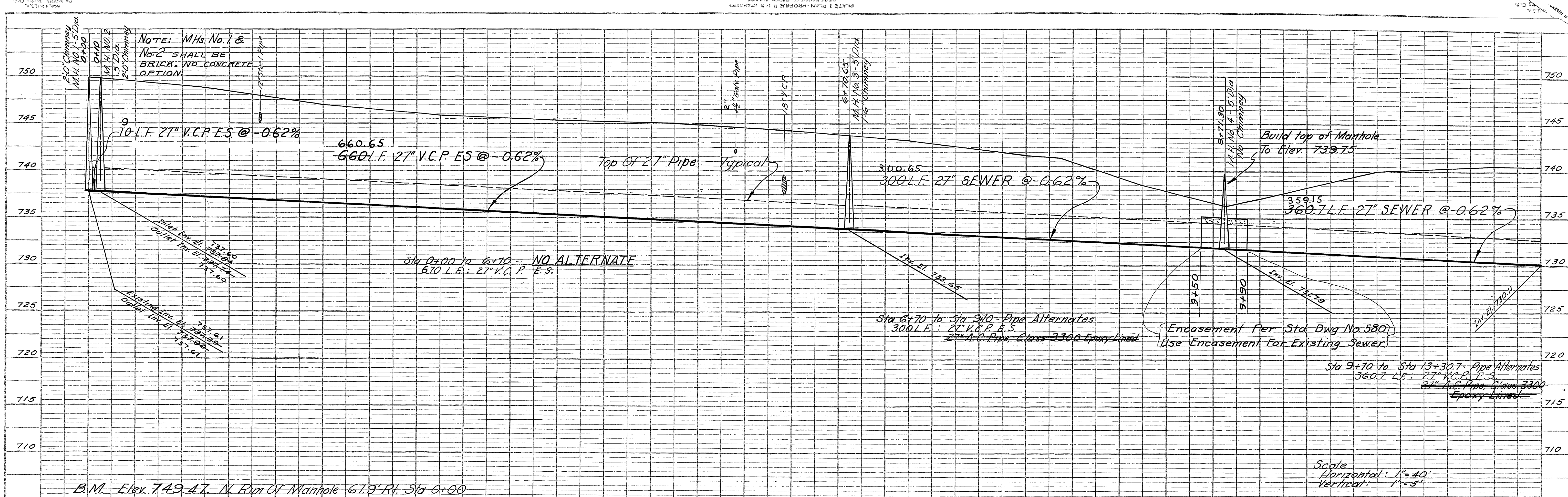
JOHN CAROLLO ENGINEERS  
PHOENIX, ARIZONA

#### DRAWING INDEX

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RCE 5358 *John A. Carollo* DATE: APRIL 1964

**JOHN CAROLLO ENGINEERS**  
PHOENIX, ARIZONA

REVISIONS			CITY OF RIVERSIDE, CALIFORNIA DEPARTMENT OF PUBLIC WORKS	
MARK	DATE	DESCRIPTION		

DESIGNED BY: JAC-CAR-RMB  
DRAWN BY: DEL  
CHECKED BY: CAR & DMT

SUBMITTED BY: PARK DEPT. TRAFFIC DIV.  
RECOMMENDED BY: JAMES F. MARTINEK  
DATE: MARCH 3, 1965

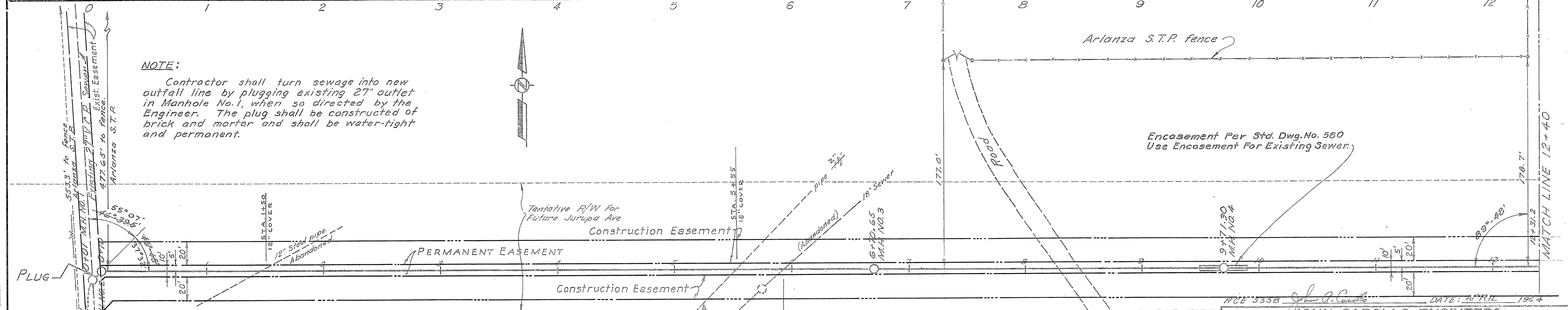
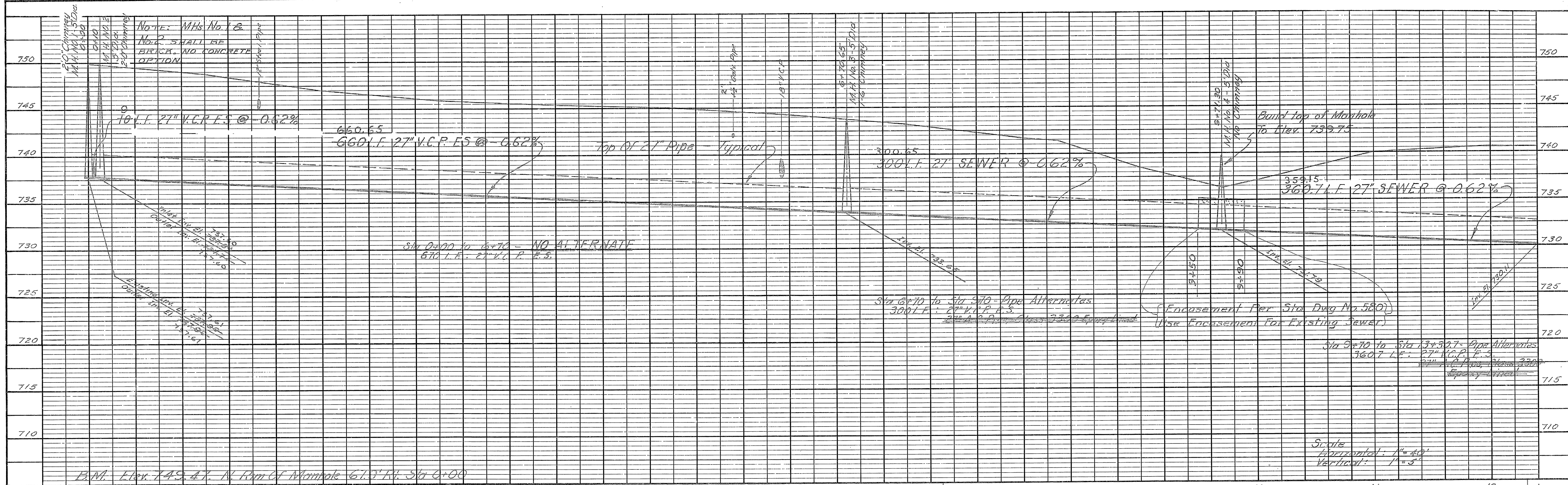
APPROVED BY: JAMES F. MARTINEK  
DIRECTOR OF PUBLIC WORKS

PROJ. NO. S-613  
SHEET 2 OF 14

**LINE A, PLAN-PROFILE**

AS BUILT  
W.S.H.





**NOTE:**  
 Contractor shall turn sewage into new outfall line by plugging existing 27" outlet in Manhole No. 1, when so directed by the Engineer. The plug shall be constructed of brick and mortar and shall be water-tight and permanent.

JOHN CAROLLO ENGINEERS  
 PHOENIX, ARIZONA  
 DATE: APRIL 1964

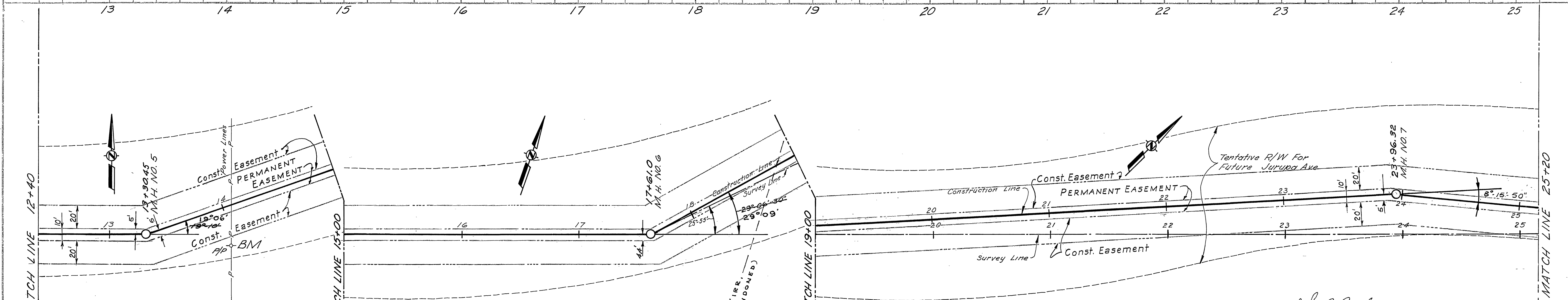
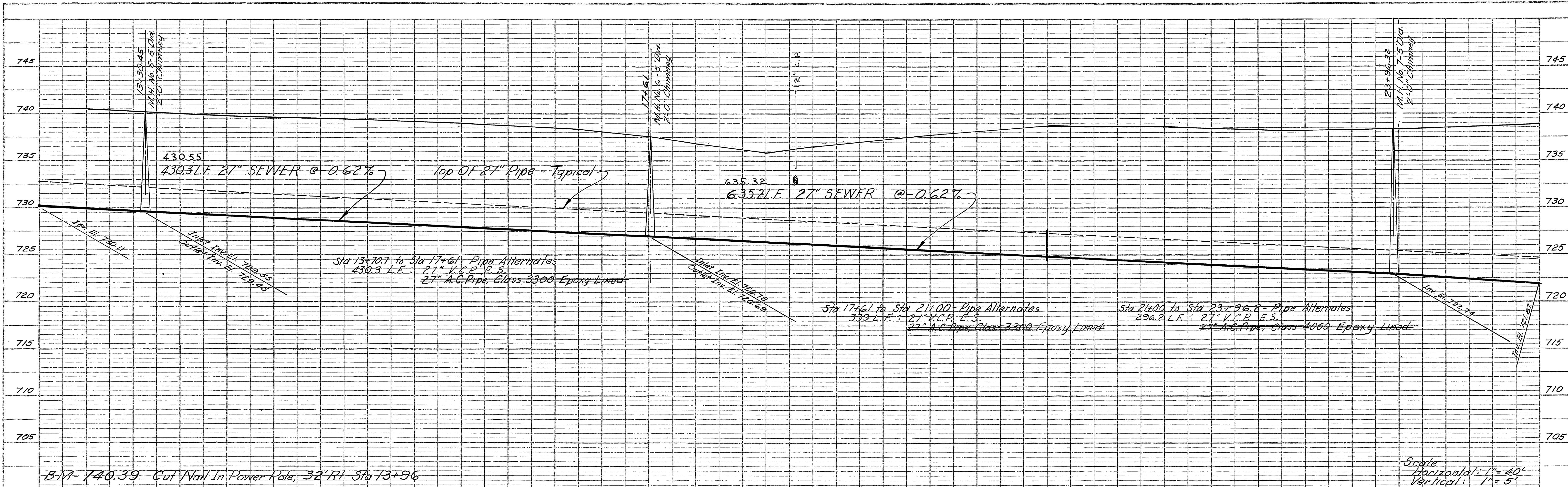
REVISIONS		CITY OF RIVERSIDE, CALIFORNIA DEPARTMENT OF PUBLIC WORKS	
MARK	DATE	DESCRIPTION	

DESIGNED BY JAC-CAR-RMB	SUBMITTED BY	APPROVED BY JAMES E. MARTINEK DIRECTOR OF PUBLIC WORKS	PROJ. NO. S-613
DRAWN BY DEL	PARK DEPT. TRAFFIC DIV.	DATE MARCH 3 1965	SHEET 2 OF 14
CHECKED BY CAR E DMT	RECOMMENDED BY		

AS BUILT  
 W.S.H.





RCE 5358 *John A. Carullo* DATE: APRIL, 1964

**JOHN CAROLLO ENGINEERS**  
PHOENIX, ARIZONA

REVISIONS		CITY OF RIVERSIDE, CALIFORNIA DEPARTMENT OF PUBLIC WORKS
MARK	DATE	

ARLANZA  
TRUNK SEWER  
INTERCEPTORS

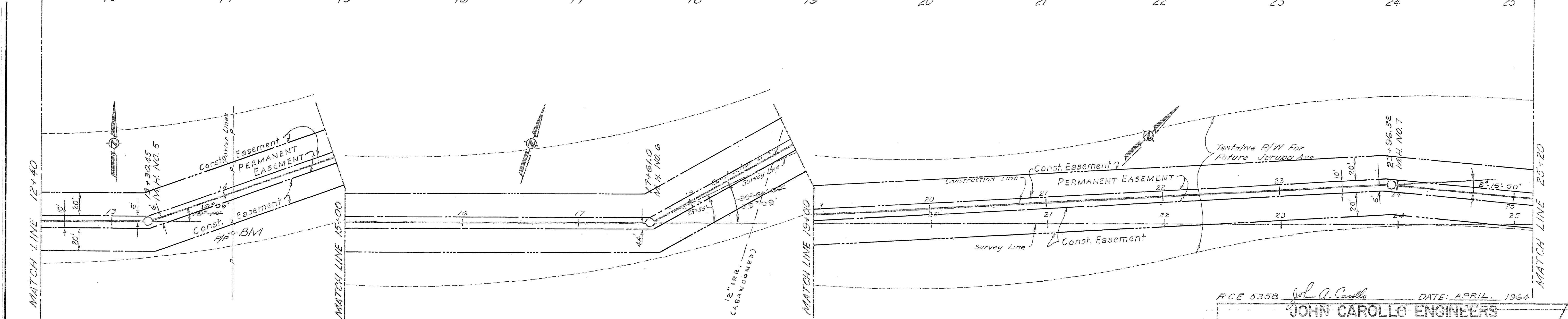
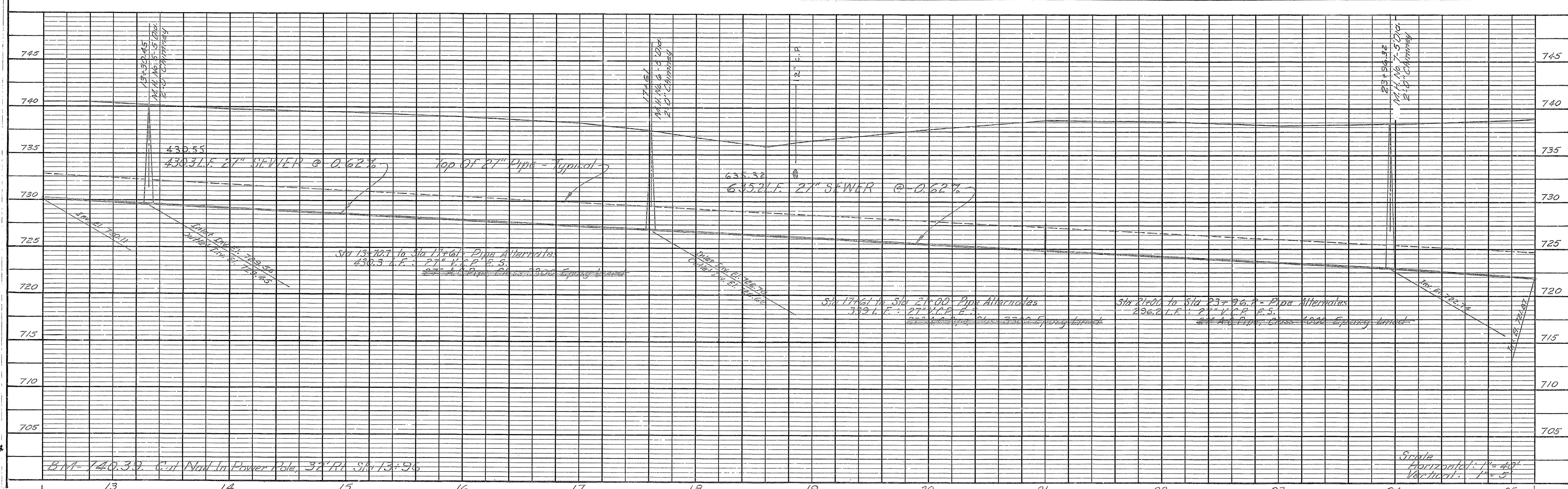
**LINE A, PLAN-PROFILE**

DESIGNED BY JAC. CAR. RMB	SUBMITTED BY	APPROVED BY	PROJ. NO.
DRAWN BY DEL	PARK DEPT.	JAMES F. MARTINEK DIRECTOR OF PUBLIC WORKS	S-613
CHECKED BY CAR & DMT	RECOMMENDED BY	DATE MARCH 3, 1965	SHEET 3 OF 14

AS BUILT  
W.S.H.

PLATE 1 PLAN - PROFILE B & R RIVERSIDE  
RIVERSIDE ENGINEERING CO. - CIVIL ENGINEERS - PHOENIX, ARIZONA





RCE 5358 *John A. Carullo* DATE: APRIL, 1964  
**JOHN CAROLLO ENGINEERS**  
 PHOENIX, ARIZONA

REVISIONS			CITY OF RIVERSIDE, CALIFORNIA DEPARTMENT OF PUBLIC WORKS	
MARK	DATE	DESCRIPTION		
			ARLANZA TRUNK SEWER INTERCEPTORS	
			LINE A, PLAN-PROFILE	

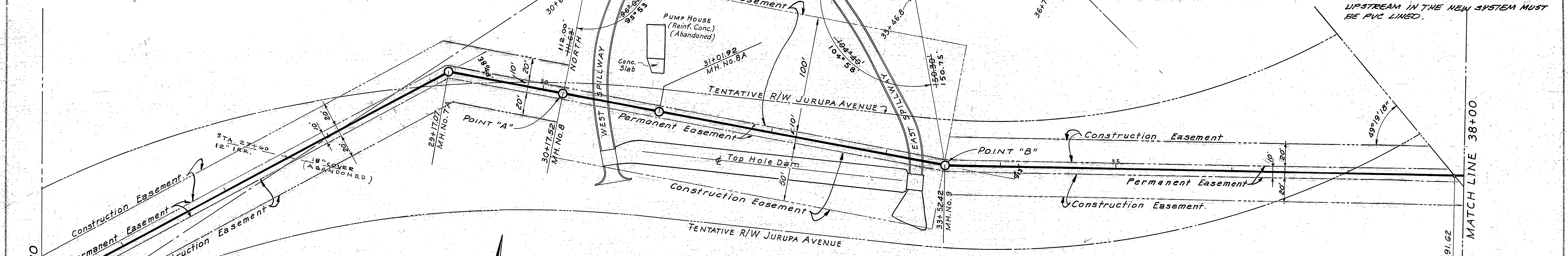
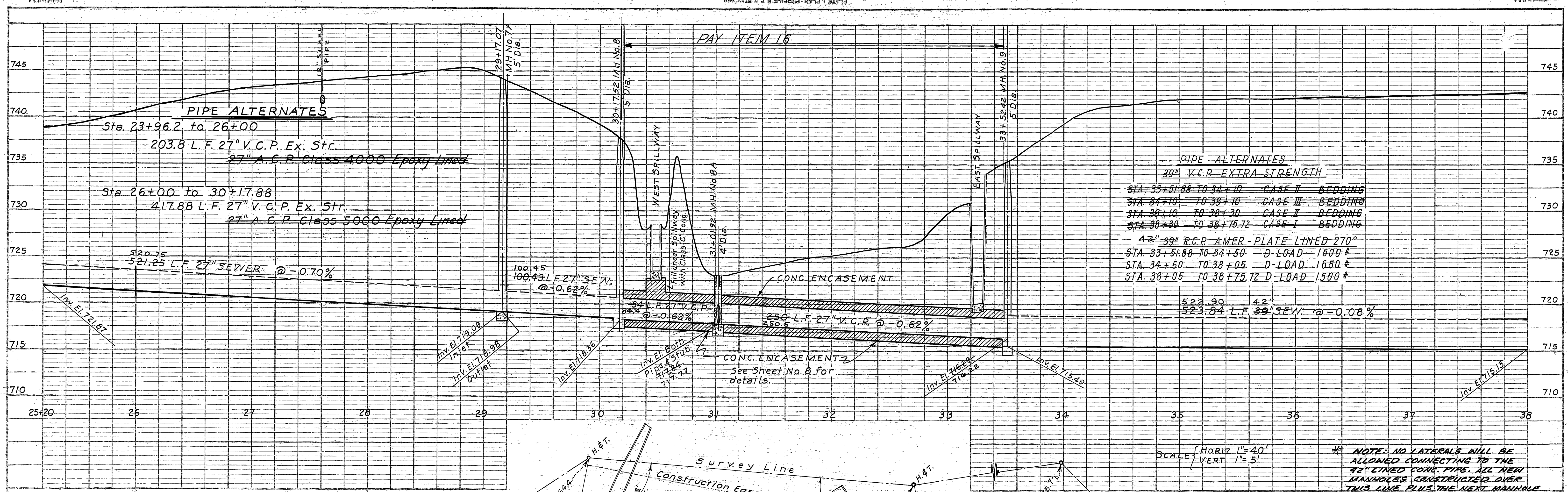
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DRAWN BY DEL	PARK DEPT.	JAMES F. MARTINEK DIRECTOR OF PUBLIC WORKS	S-613
CHECKED BY CAR E DMT	TRAFFIC DIV.	RECOMMENDED BY	SHEET 3 OF 14
		DATE MARCH 3, 1965	

AS BUILT  
 W. S. M.

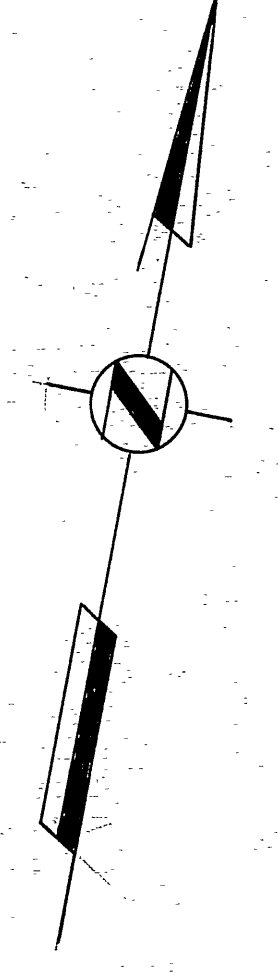


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 PLAN: \_\_\_\_\_ NOTE BOOK: \_\_\_\_\_ CHECKED: \_\_\_\_\_

DATE: \_\_\_\_\_ BY: \_\_\_\_\_  
 SURVEYED: \_\_\_\_\_ PLOTTED: \_\_\_\_\_  
 PROFILE: \_\_\_\_\_ NOTE BOOK: \_\_\_\_\_ CHECKED: \_\_\_\_\_



See Sheet No. 8 for Detail Topography Between MHs, No. 8 & 9.



SCALE: HORIZ 1" = 40'  
 VERT 1" = 5'

\* NOTE: NO LATERALS WILL BE ALLOWED CONNECTING TO THE 42" LINED CONC. PIPE. ALL NEW MANHOLES CONSTRUCTED OVER THIS LINE PLUS THE NEXT MANHOLE UPSTREAM IN THE NEW SYSTEM MUST BE PVC LINED.

R.C.E. 5358 *John A. Caroll* DATE *Oct.* 1964

**JOHN CAROLLO ENGINEERS**  
 PHOENIX, ARIZONA

REVISIONS		CITY OF RIVERSIDE, CALIFORNIA DEPARTMENT OF PUBLIC WORKS
MARK	DATE DESCRIPTION	
		<b>ARLANZA TRUNK SEWER INTERCEPTORS</b> LINE "A" - PLAN-PROFILE

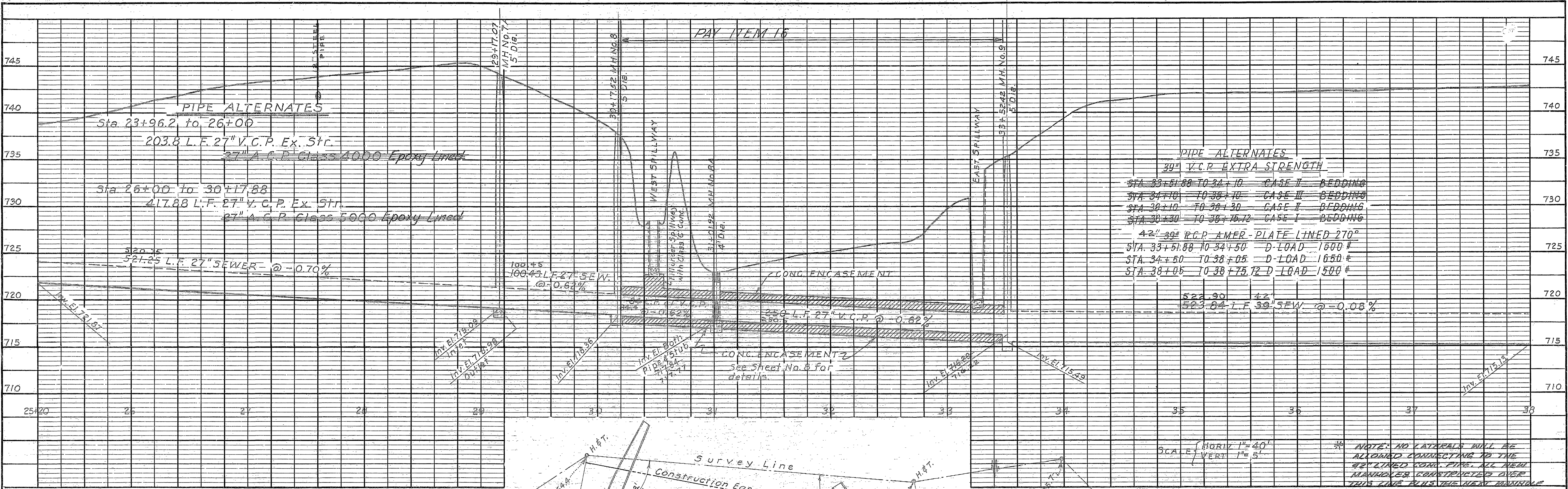
DESIGNED BY: <i>D.M.T.</i>	SUBMITTED BY:	APPROVED BY: <i>JAMES F. MARTINEK</i> DIRECTOR OF PUBLIC WORKS	PROJ. NO.
DRAWN BY: <i>S.C.C. H.L.G.</i>	PARK DEPT. TRAFFIC DIV.	RECOMMENDED BY:	<b>S-613</b>
CHECKED BY: <i>D.M.T. E.C.A.R.</i>	DATE: <i>MARCH 3, 1965</i>		SHEET <i>4</i> OF <i>14</i>

**AS BUILT**  
 W.S.H.  
 # AS BUILT 2.3.00 76



PLAN SURVEYED, PLOTTED, GRADES CHECKED. BY: DATE: NOTE BOOK ALIGNMENT CHECKED.

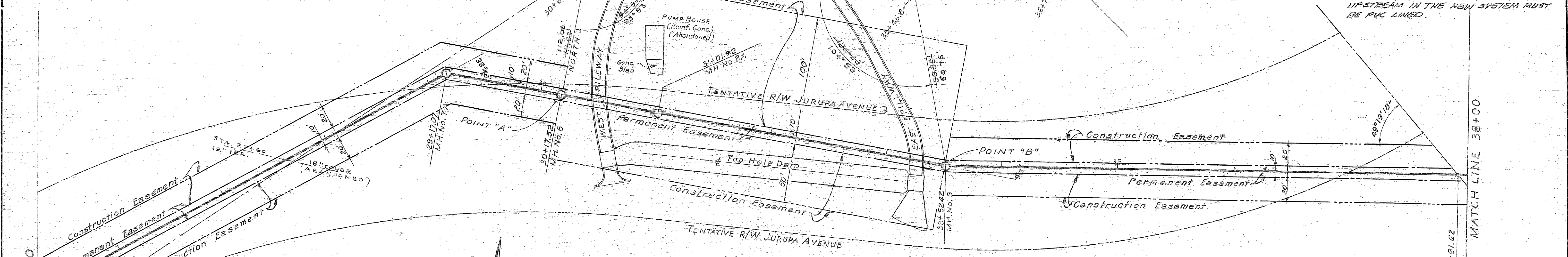
PROFILE SURVEYED, PLOTTED, GRADES CHECKED. BY: DATE: NOTE BOOK GRADES CHECKED.



**PIPE ALTERNATES**  
 39" V.C.P. EXTRA STRENGTH  
 STA 33+51.88 TO 34+10 CASE II BEDDING  
 STA 34+10 TO 38+10 CASE III BEDDING  
 STA 38+10 TO 38+30 CASE II BEDDING  
 STA 38+30 TO 38+75.72 CASE I BEDDING  
 42" 39" R.C.P. AMER. PLATE LINED 270°  
 STA 33+51.88 TO 34+50 D-LOAD 1600 #  
 STA 34+50 TO 38+05 D-LOAD 1650 #  
 STA 38+05 TO 38+75.72 D-LOAD 1500 #

SCALE: HORIZ 1" = 40'  
 VERT 1" = 5'

\* NOTE: NO LATERALS WILL BE ALLOWED CONNECTING TO THE 42" LINED CONCR. PIPES. ALL NEW MANHOLES CONSTRUCTED OVER THIS LINE PLUS THE NEW MANHOLE UPSTREAM IN THE NEW SYSTEM MUST BE P.V.C. LINED.



See Sheet No. 8 for Detail Topography Between M.H.s, No. 8 & 9.

R.C.E. 5358 *John A. Carullo* DATE Oct. 1964

**JOHN CAROLLO ENGINEERS**  
 PHOENIX, ARIZONA

REVISIONS		CITY OF RIVERSIDE, CALIFORNIA DEPARTMENT OF PUBLIC WORKS
MARK	DATE DESCRIPTION	

ARLANZA TRUNK SEWER INTERCEPTORS  
 LINE "A" - PLAN-PROFILE

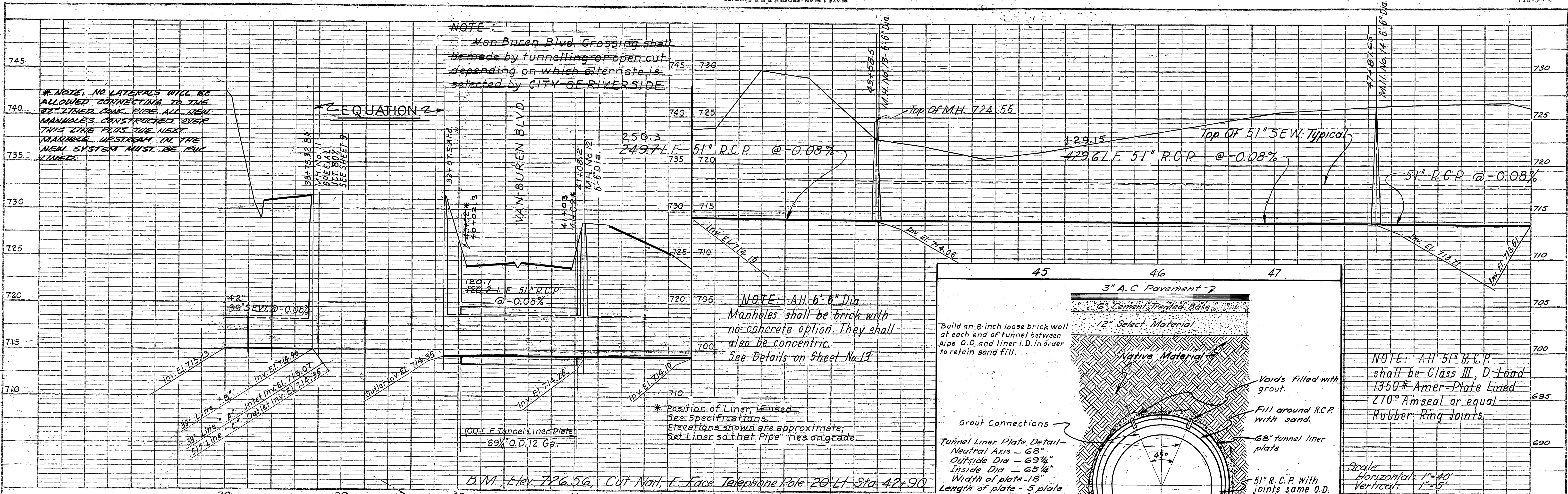
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DRAWN BY S.G.G. #16	PARK DEPT.	TRAFFIC DIV.	DATE MARCH 3, 1965
CHECKED BY D.M.T. & C.A.R.	RECOMMENDED BY	ASSISTANT CITY ENGINEER	SHEET 4 OF 14

AS BUILT

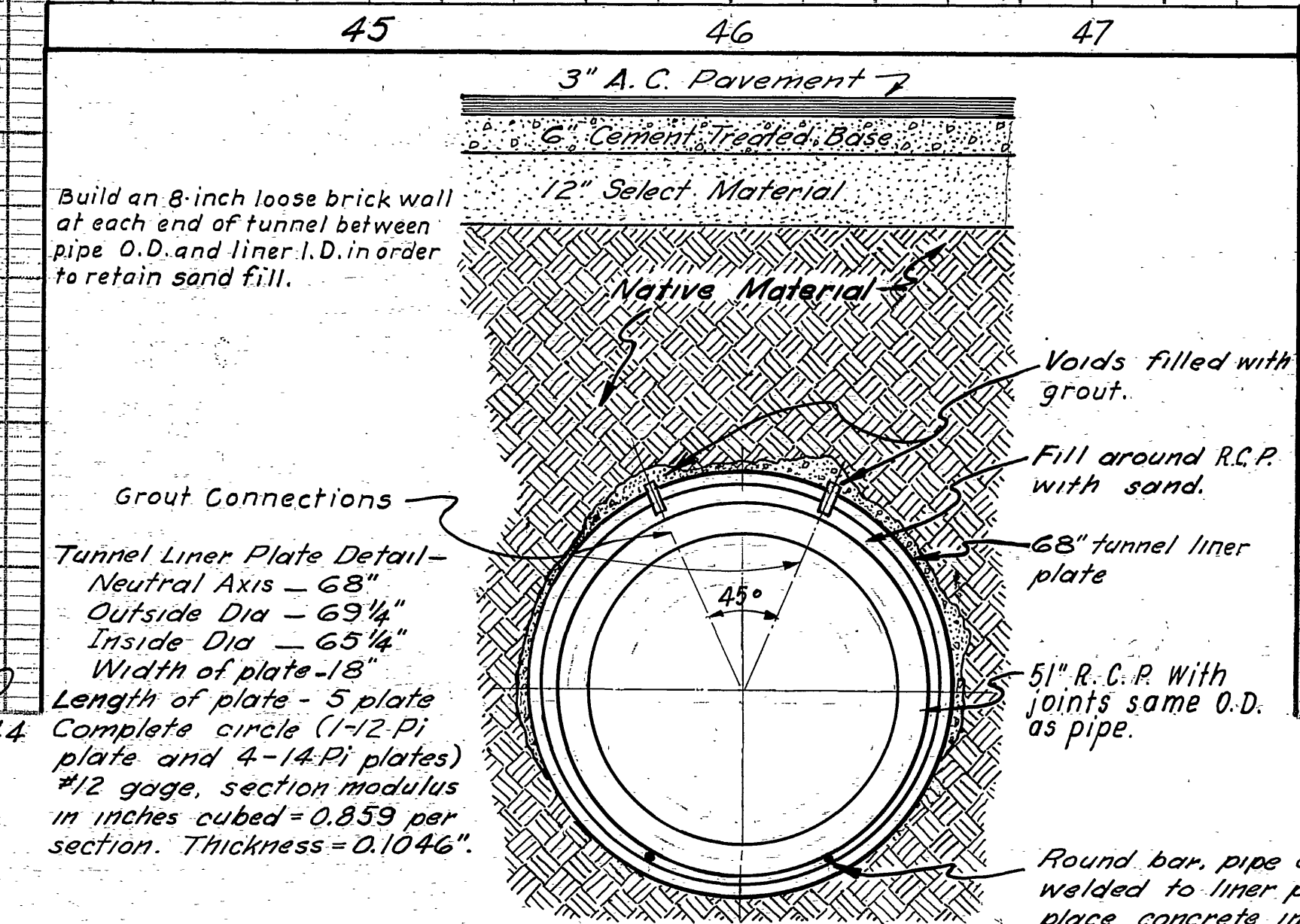
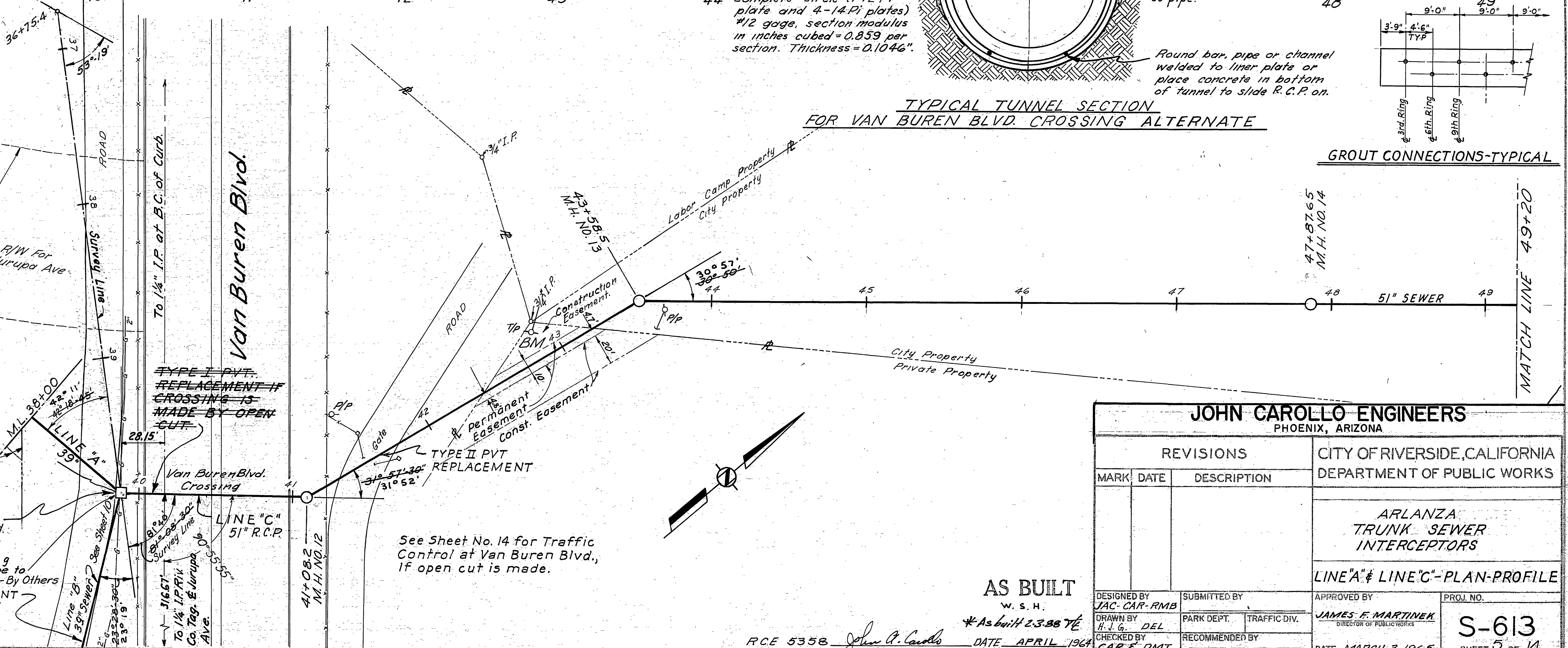
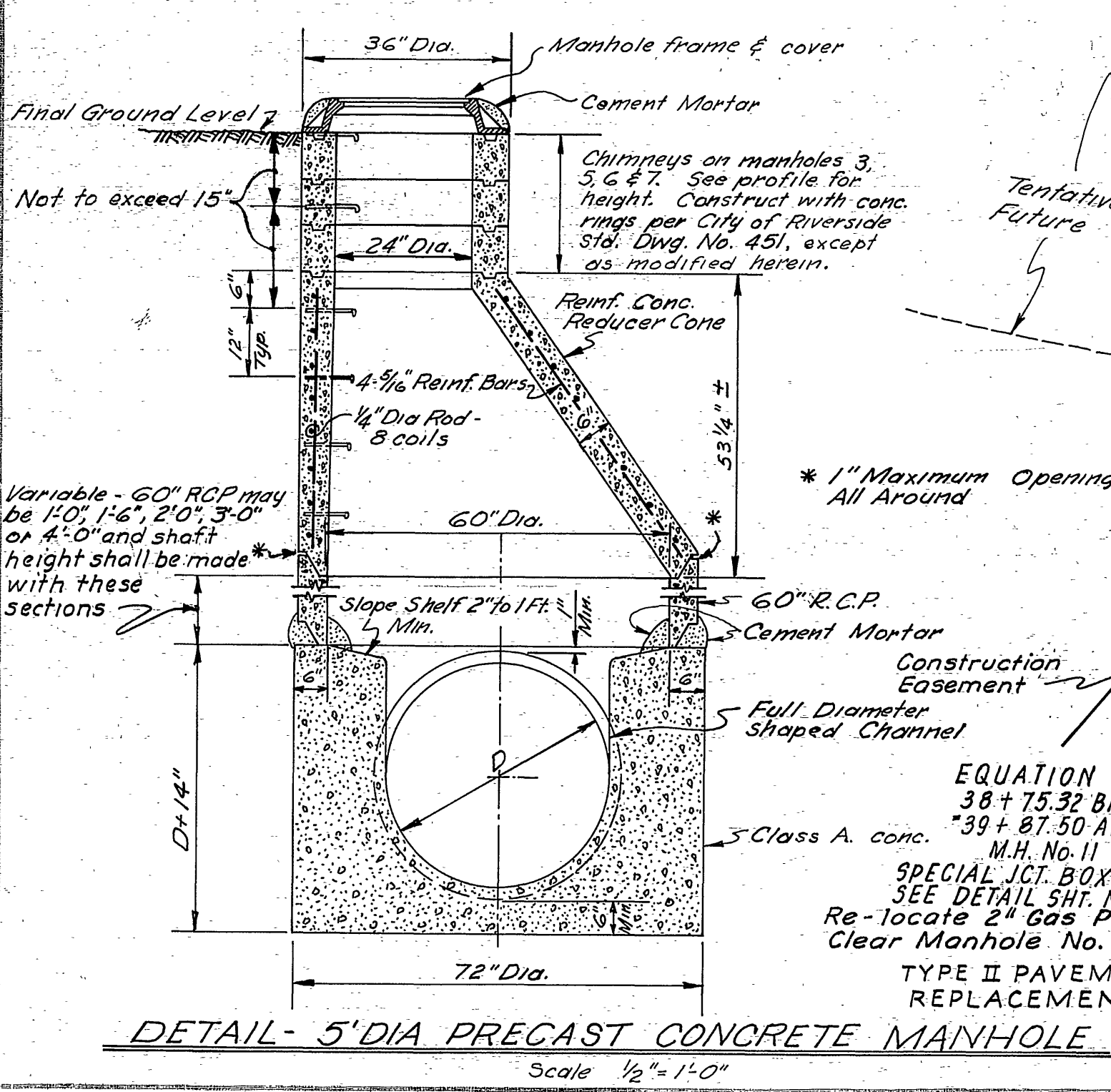


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 NOTE BOOK: \_\_\_\_\_  
 ALIGNMENT CHECKED: \_\_\_\_\_

DATE: \_\_\_\_\_ BY: \_\_\_\_\_  
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 PROFILE: \_\_\_\_\_  
 NOTE BOOK: \_\_\_\_\_  
 GROUPS CHECKED: \_\_\_\_\_



- NOTES:**
- Concrete for poured units shall be class A (sack). Joints shall be filled with cement mortar and neatly pointed or wiped on inside of shaft.
  - Concrete rings shall be in accordance with City of Riverside Std. Dwg. No. 451.
  - Steps shall be 3/4" round galvanized steel. Top step shall be placed directly beneath the manhole cover frame with legs extending into the wall of shaft on radial lines. Width of all steps shall be 1-2" between leg centers. The bottom step shall not be more than 16" above the shaft.
  - Centrifugally spun units may be used at the option of the contractor, conforming to specifications for Centrifugal Concrete Pipe, City of Riverside Std. Dwg. No. 451 and this Dwg.



NOTE: All 51" R.C.P. shall be Class III, D-Load 1350# Amer-Plate Lined 270° Amseal or equal Rubber Ring Joints.

Scale  
 Horizontal: 1"=40'  
 Vertical: 1"=5'

GROUT CONNECTIONS-TYPICAL

REVISIONS		CITY OF RIVERSIDE, CALIFORNIA DEPARTMENT OF PUBLIC WORKS	
MARK	DATE	DESCRIPTION	
<b>ARLANZA TRUNK SEWER INTERCEPTORS</b>			
<b>LINE "A" &amp; LINE "C" - PLAN-PROFILE</b>			
DESIGNED BY JAC-CAR-RMB	SUBMITTED BY	APPROVED BY JAMES F. MARTINEK DIRECTOR OF PUBLIC WORKS	PROJ. NO.
DRAWN BY A. J. G. DEL	PARK DEPT. TRAFFIC DIV.	RECOMMENDED BY	S-613
CHECKED BY CAR & DMT	DATE APRIL 1964	DATE MARCH 3, 1965	SHEET 5 OF 14

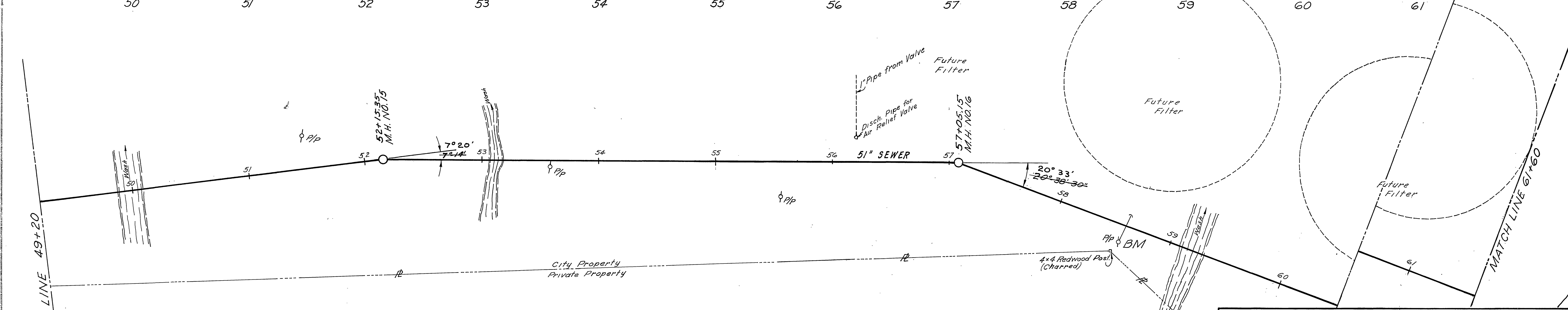
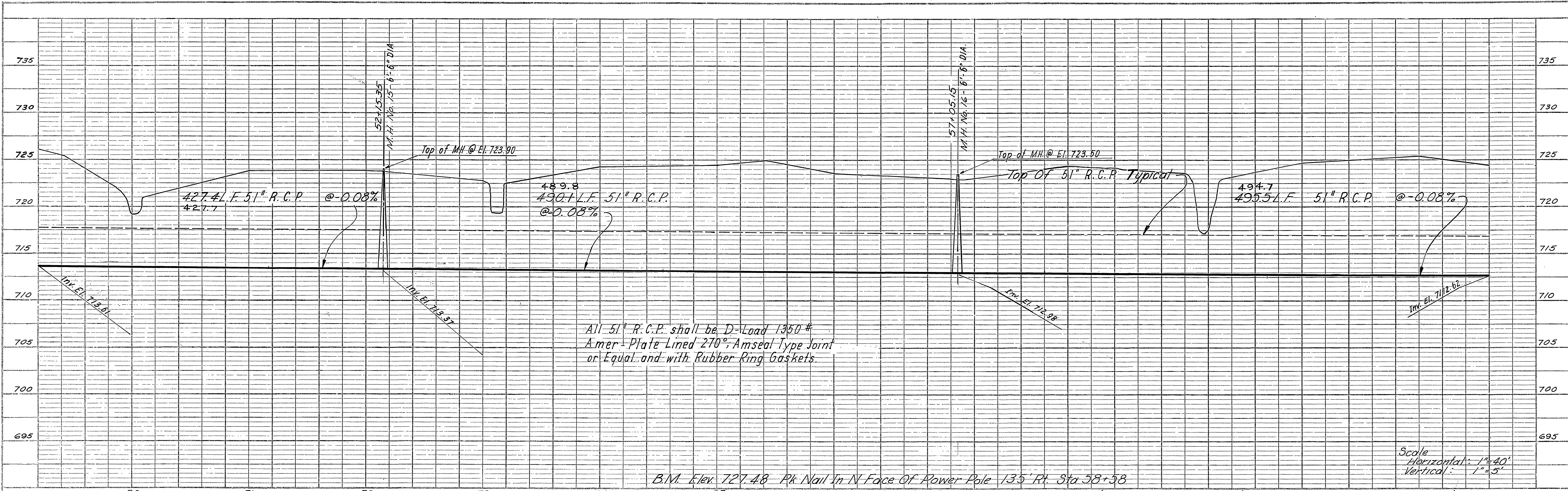
AS BUILT  
 W. S. H.

RCE 5358 John A. Carollo DATE APRIL 1964



DATE: \_\_\_\_\_  
 BY: \_\_\_\_\_  
 SURVEYED: \_\_\_\_\_  
 PROFILE: \_\_\_\_\_  
 NOTE BOOK: \_\_\_\_\_  
 GRADES CHECKED: \_\_\_\_\_

DATE: \_\_\_\_\_  
 BY: \_\_\_\_\_  
 SURVEYED: \_\_\_\_\_  
 PROFILE: \_\_\_\_\_  
 NOTE BOOK: \_\_\_\_\_  
 GRADES CHECKED: \_\_\_\_\_



Scale  
 Horizontal: 1"=40'  
 Vertical: 1"=5'

**JOHN CAROLLO ENGINEERS**  
 PHOENIX, ARIZONA

REVISIONS		
MARK	DATE	DESCRIPTION

CITY OF RIVERSIDE, CALIFORNIA  
 DEPARTMENT OF PUBLIC WORKS

ARLANZA  
 TRUNK SEWER  
 INTERCEPTORS

**LINE C, PLAN-PROFILE**

DESIGNED BY JAC. CAR. RMB	SUBMITTED BY	APPROVED BY	PROJ. NO.
DRAWN BY H.L.G. DEL	PARK DEPT.	JAMES F. MARTINEK DIRECTOR OF PUBLIC WORKS	S-613
CHECKED BY CAR & DMT	TRAFFIC DIV.	DATE	MARCH 3, 1965
			SHEET 2 OF 14

AS BUILT  
 W.S.H.

RCE 5358 *John P. Carullo* DATE APRIL 1964

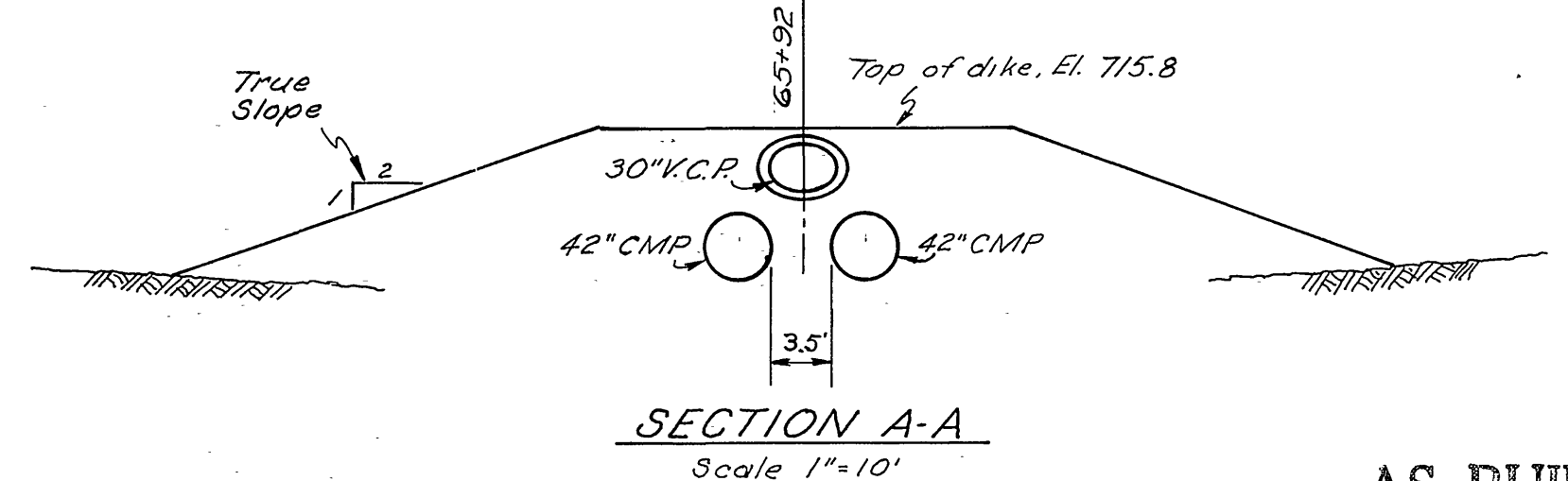
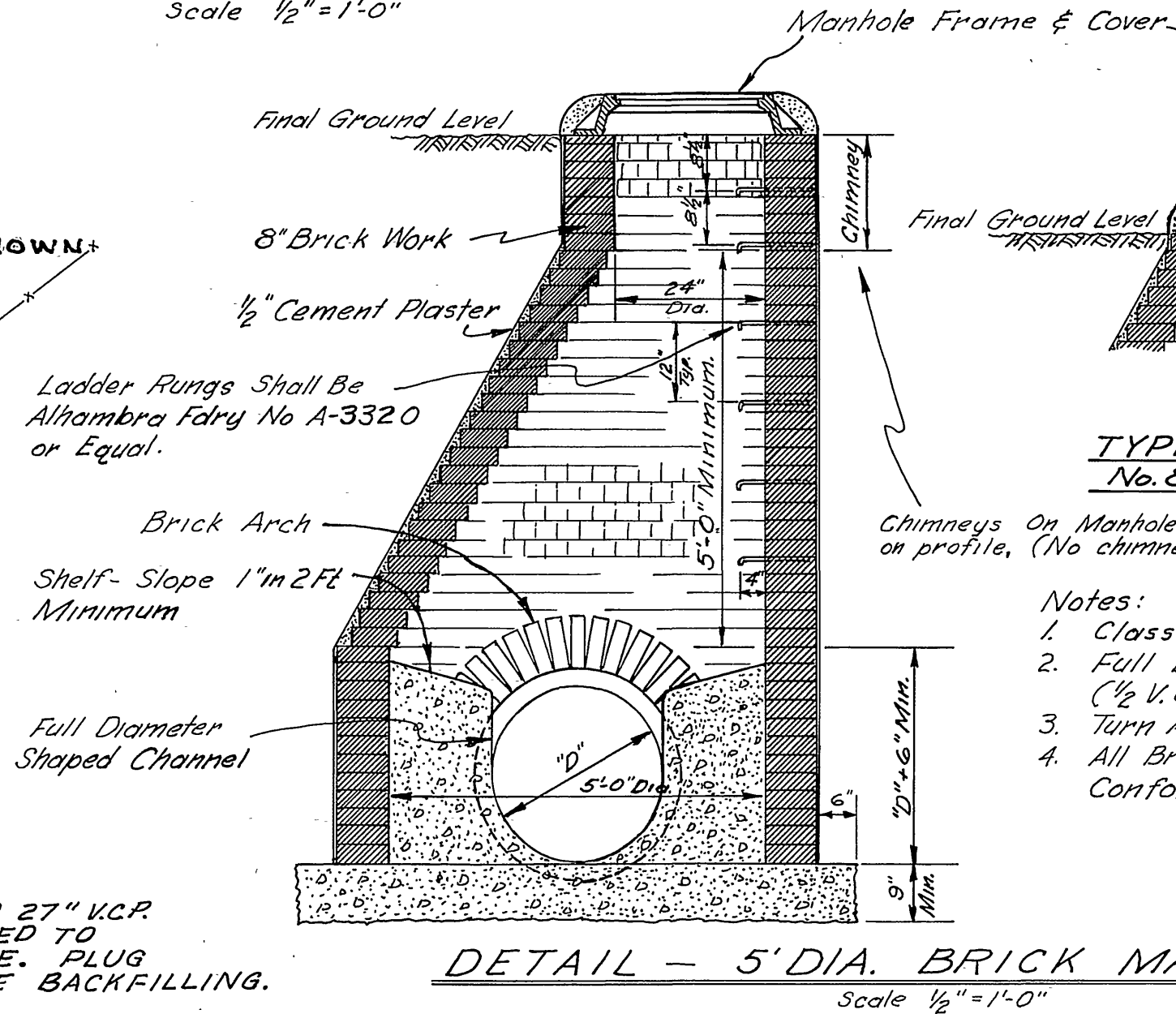
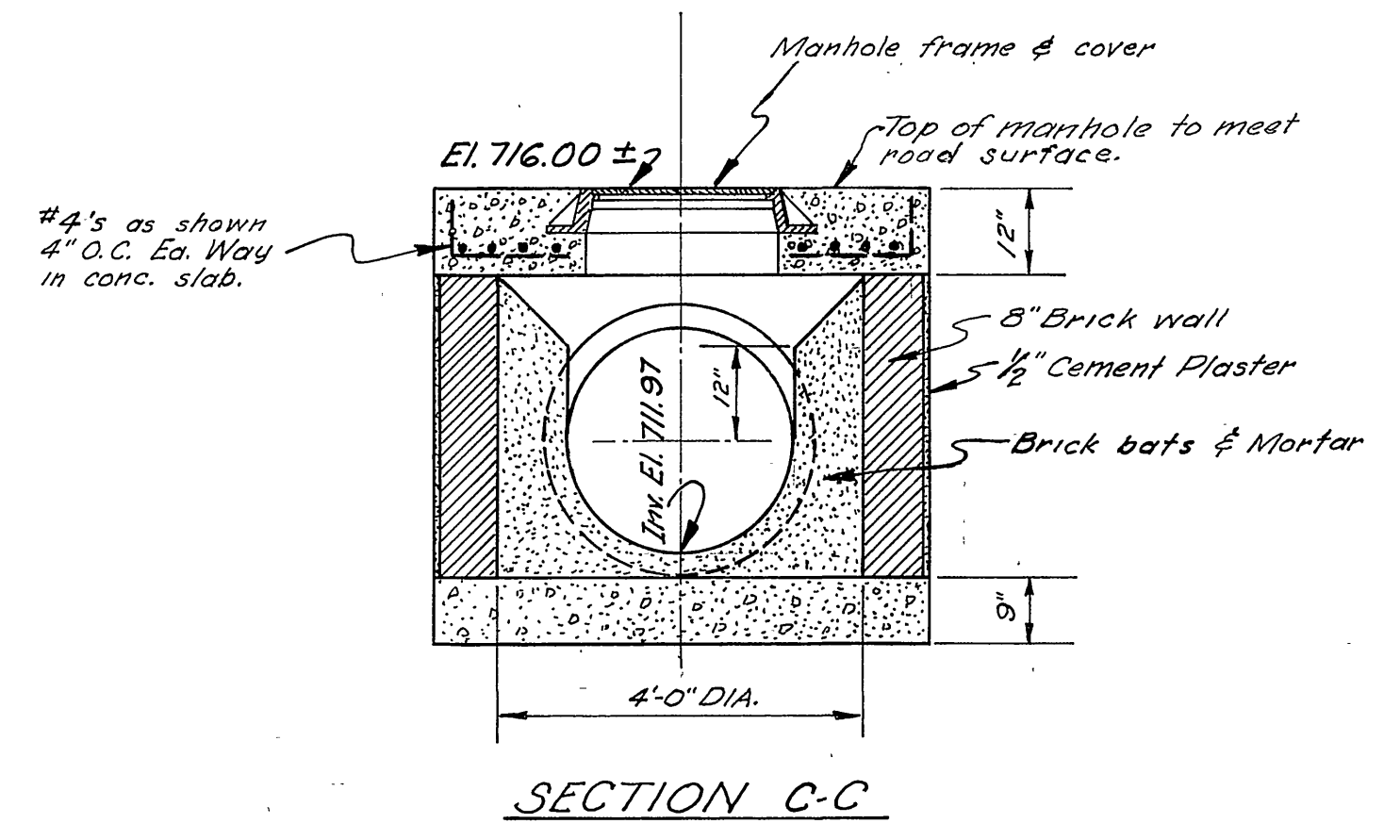
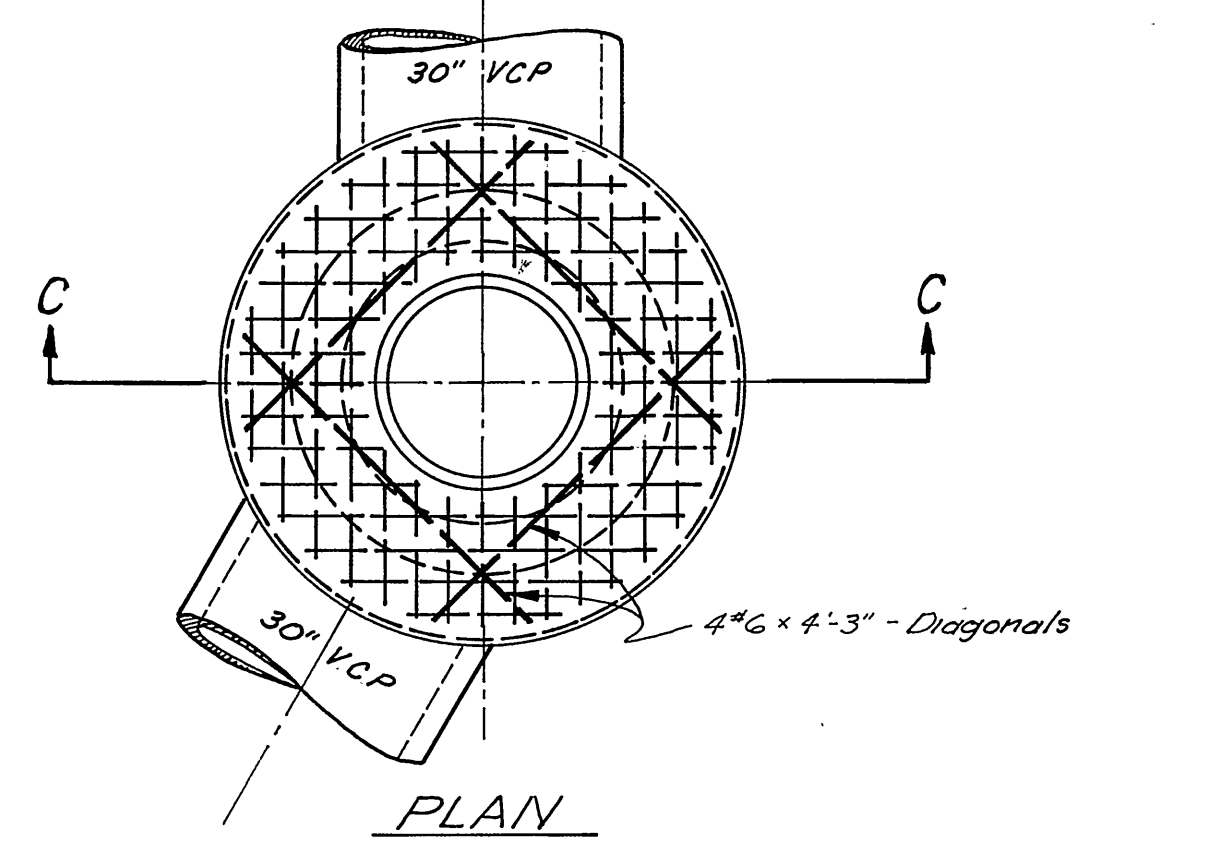
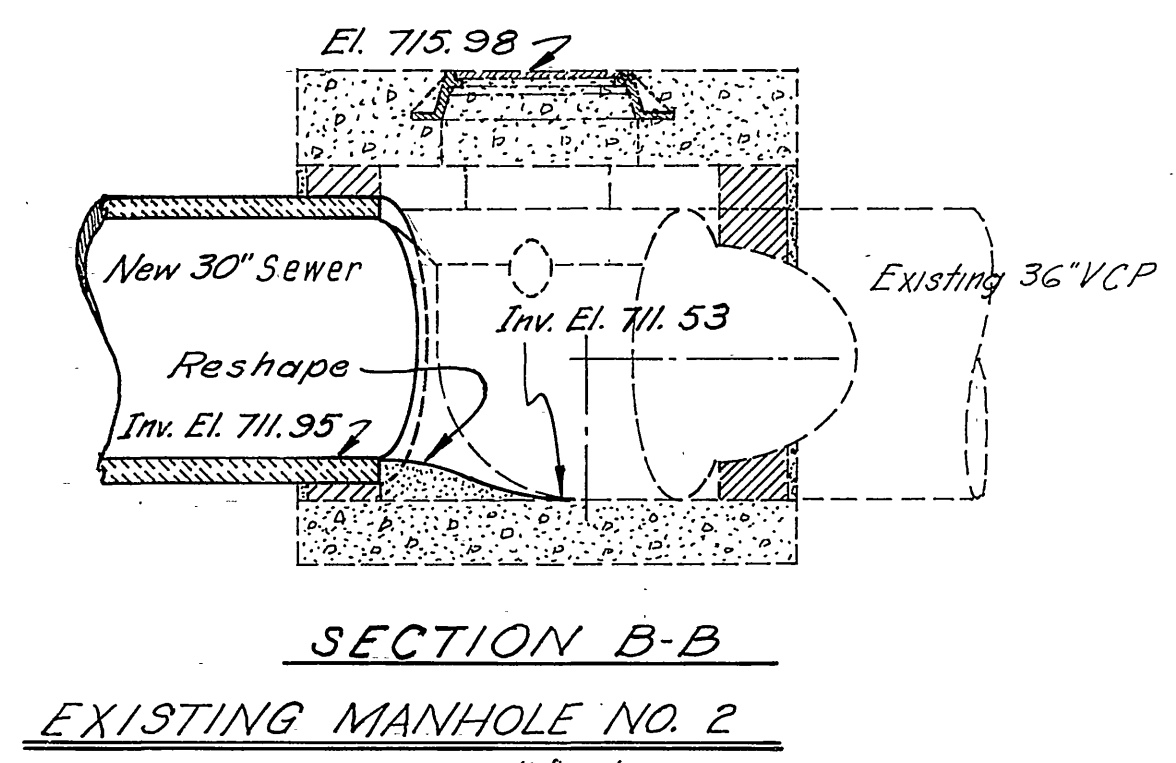
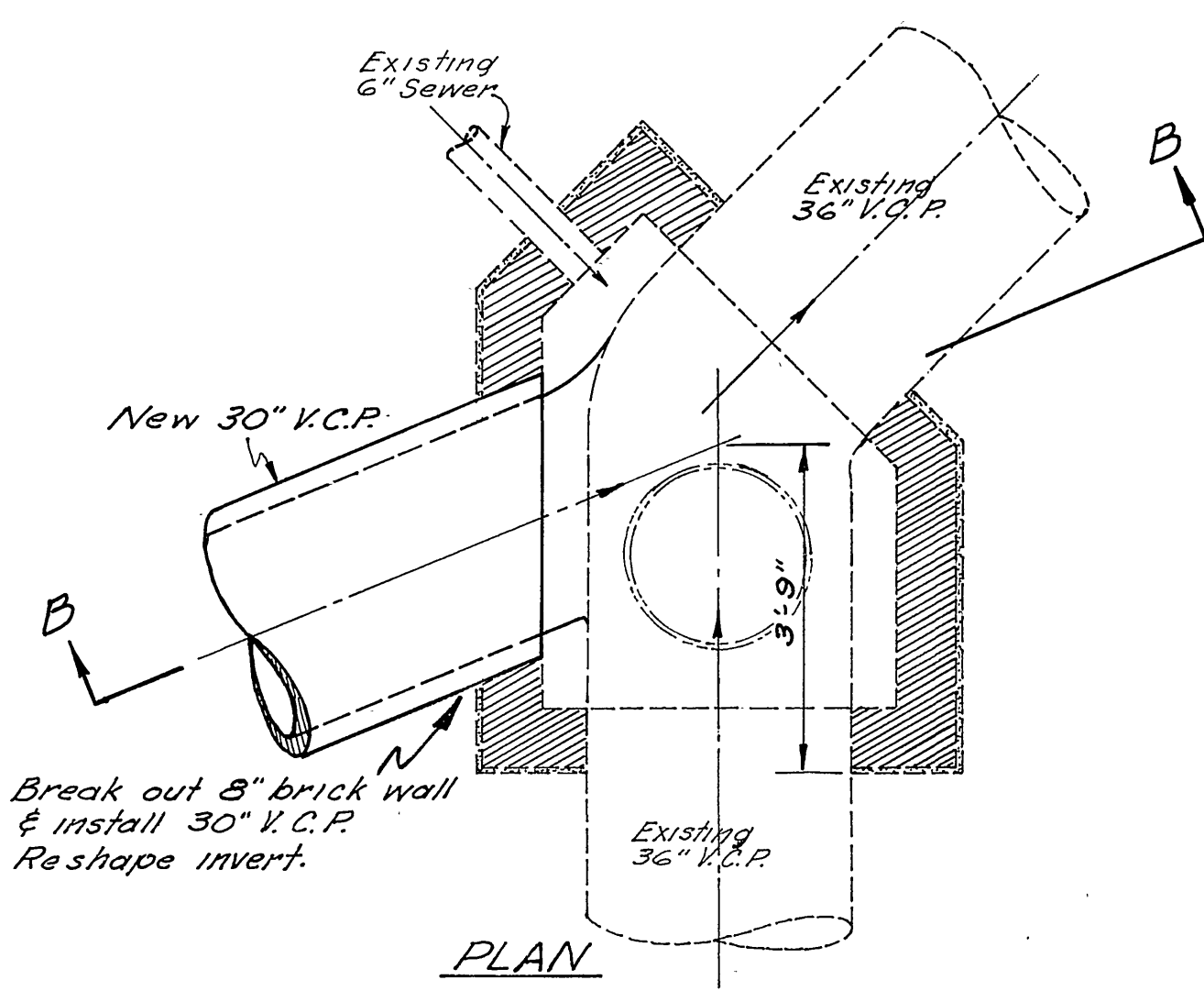
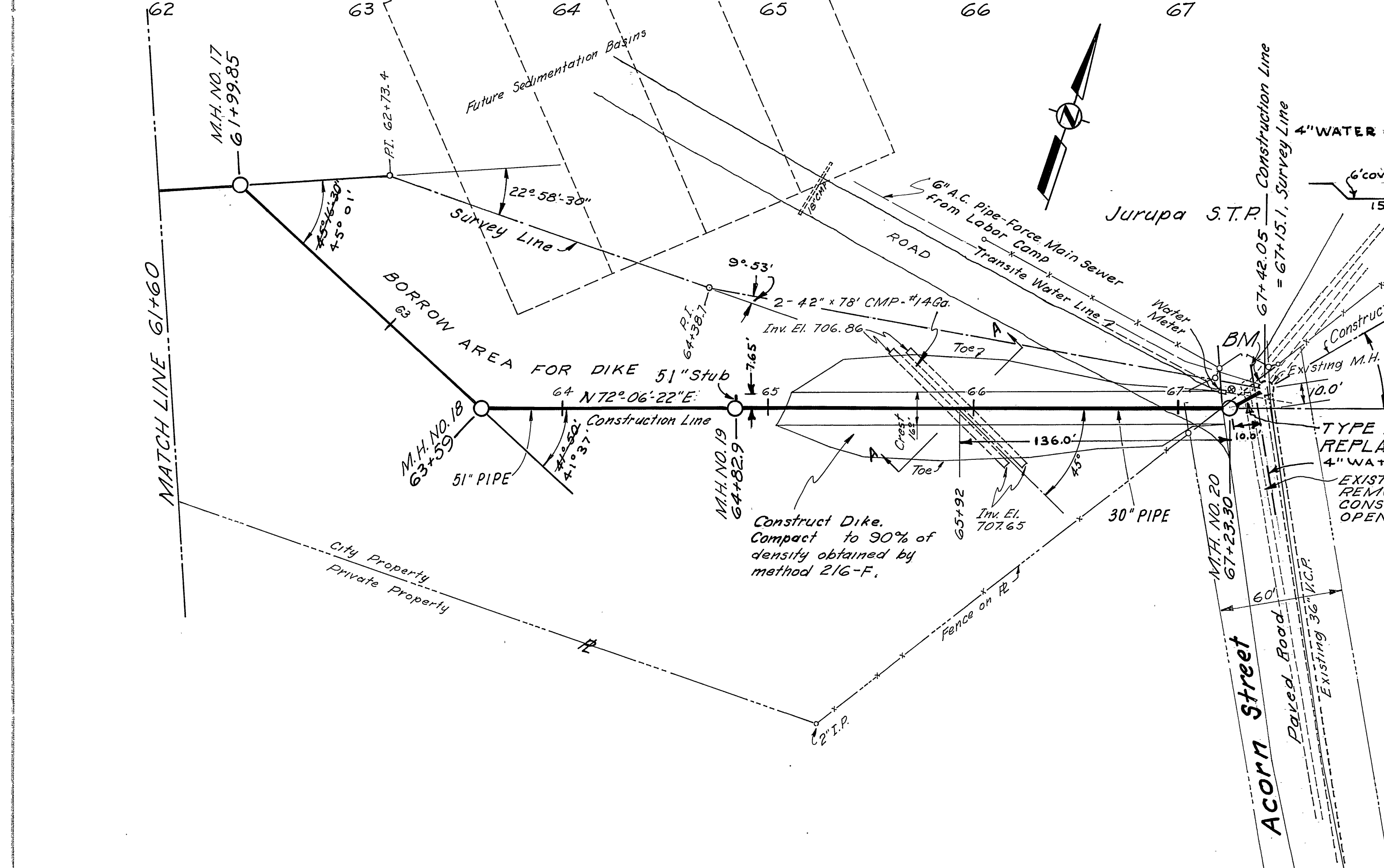
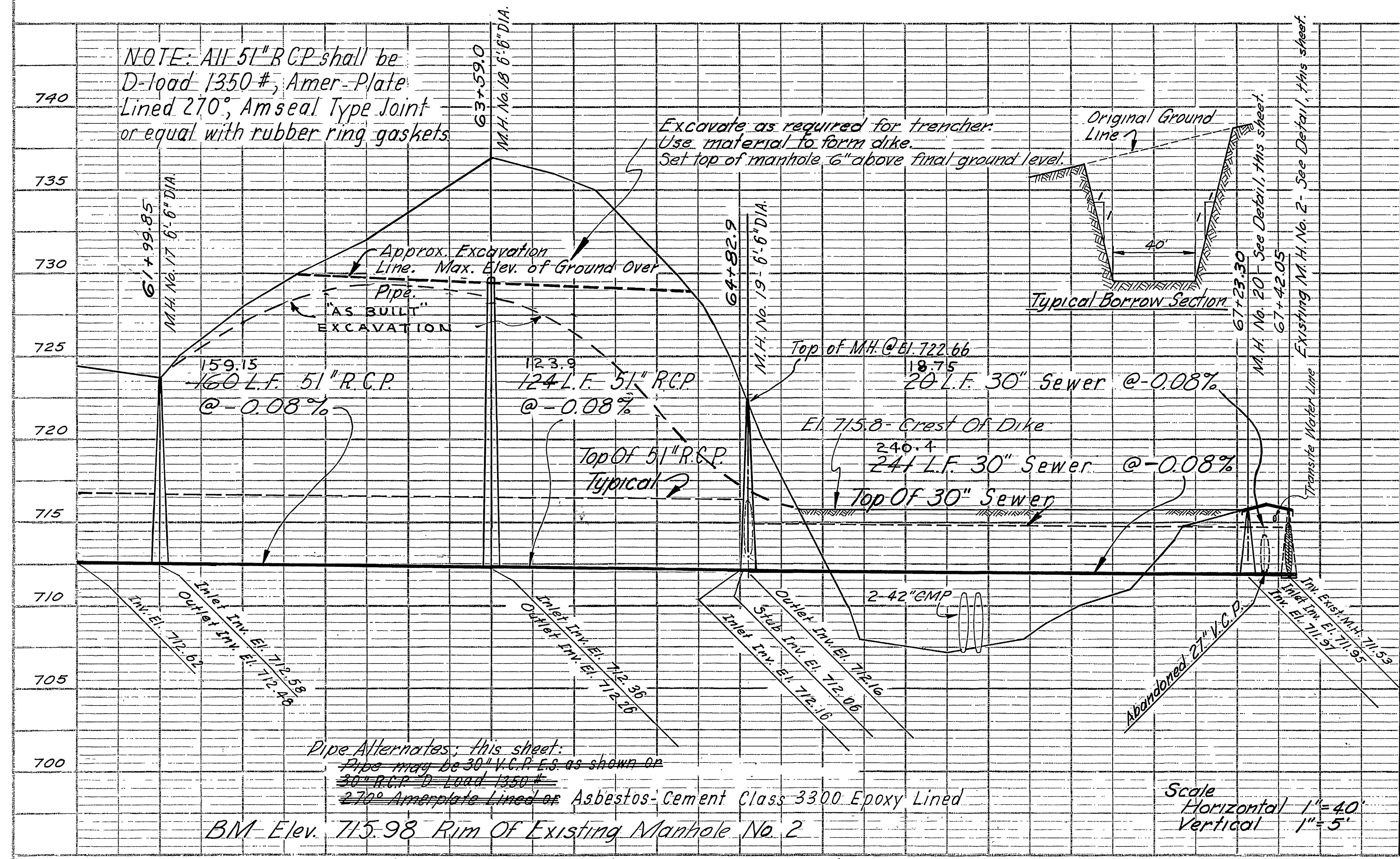
PLATE 1 PLAN-PROFILE & P. ELEVATION  
 EXIST. DRESSING ON DRAWING - SEE TYPICAL

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 ON PAPER MANUFACTURED BY THE  
 MERRILL LUMBER CO.



DATE: \_\_\_\_\_ BY: \_\_\_\_\_  
 CHECKED: \_\_\_\_\_  
 PLAN  
 SHOWN  
 PLOTTED  
 NOTE BOOK  
 ALIGNMENT CHECKED

DATE: \_\_\_\_\_ BY: \_\_\_\_\_  
 CHECKED: \_\_\_\_\_  
 PROFILE  
 SHOWN  
 PLOTTED  
 NOTE BOOK  
 FINISHES CHECKED



AS BUILT  
 W.S.H.

RCE 5358 John A. Carullo DATE APRIL 1964

**JOHN CAROLLO ENGINEERS**  
 PHOENIX, ARIZONA

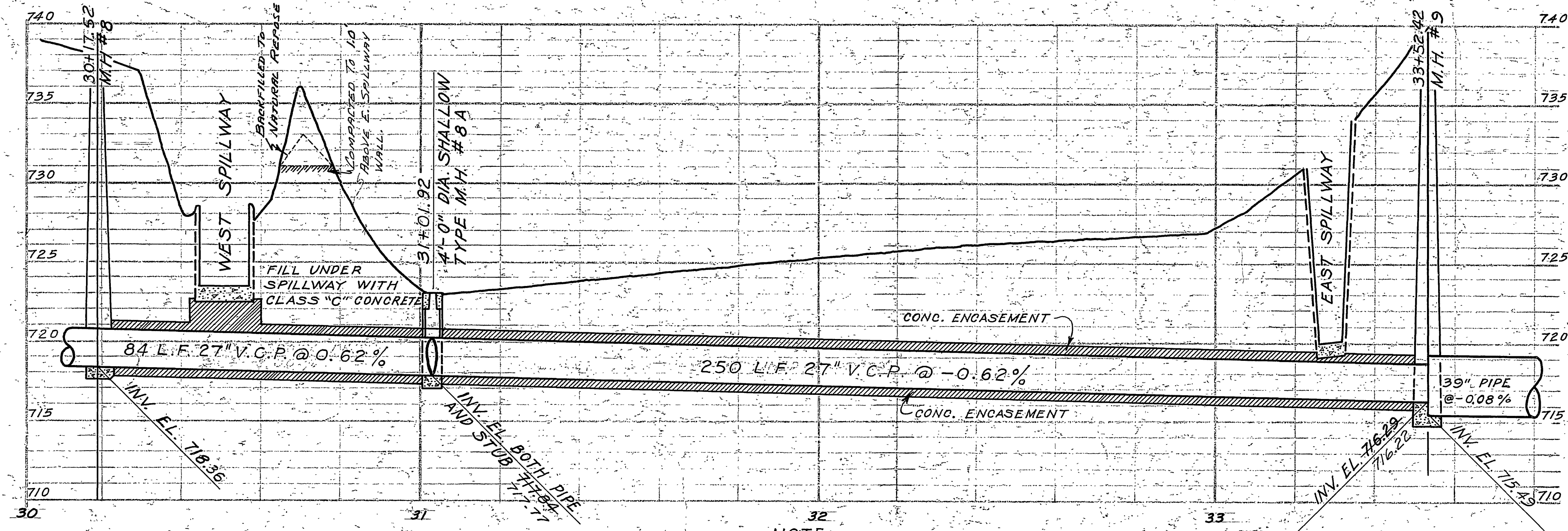
REVISIONS		CITY OF RIVERSIDE, CALIFORNIA DEPARTMENT OF PUBLIC WORKS
MARK	DATE	

ARLANZA TRUNK SEWER INTERCEPTORS

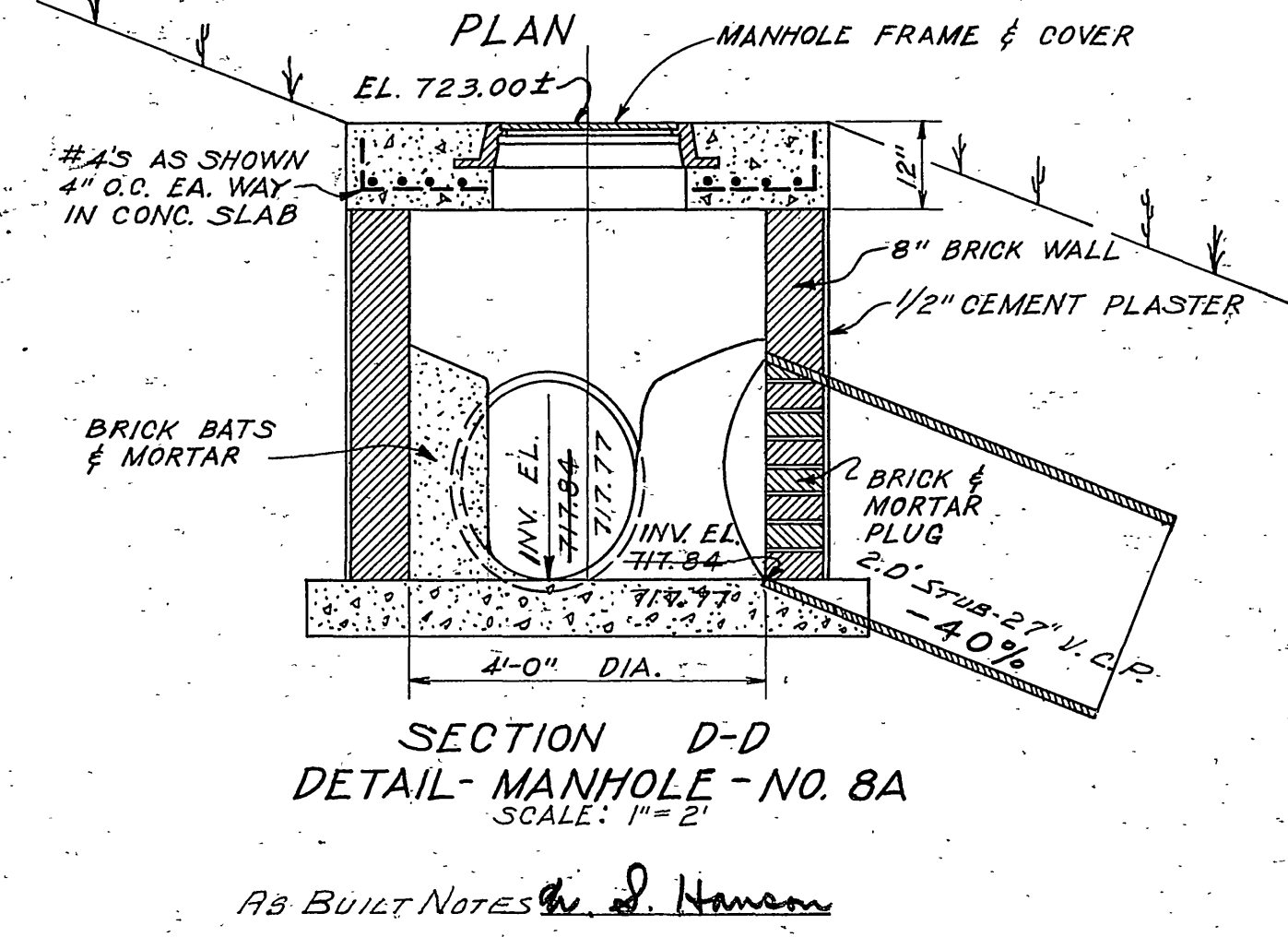
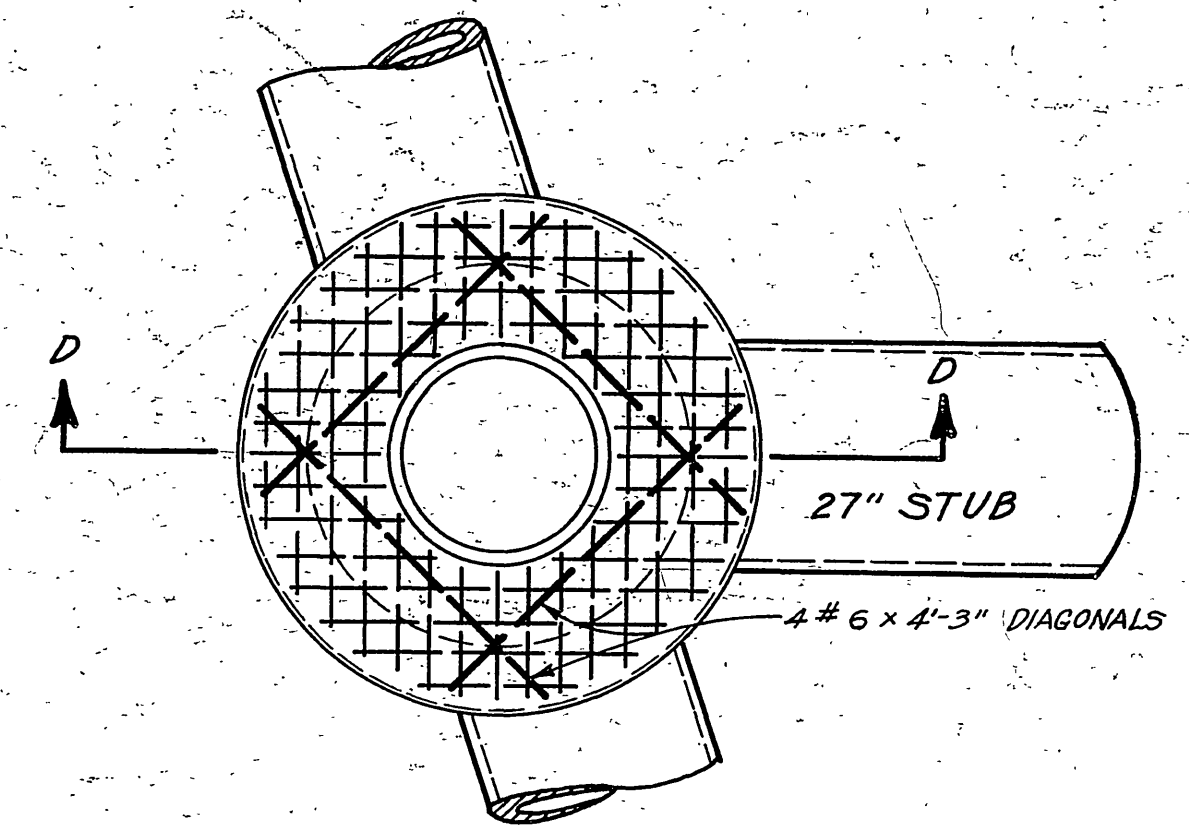
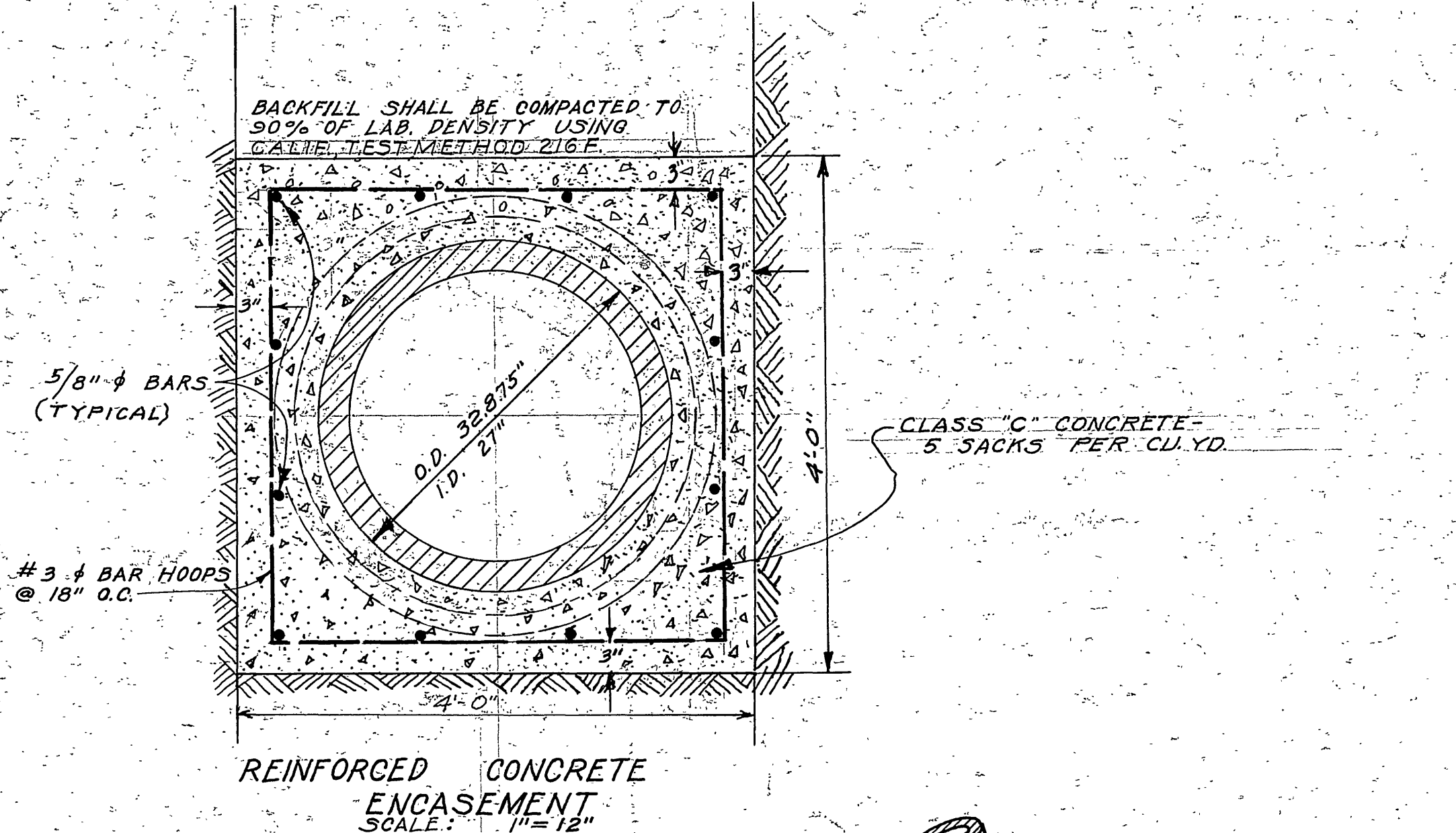
**LINE C, PLAN-PROFILE**

DESIGNED BY JAC. CAR. RMB	SUBMITTED BY PARK DEPT. TRAFFIC DIV.	APPROVED BY JAMES F. MARTINEZ DIRECTOR OF PUBLIC WORKS	PROJ. NO. S-613
DRAWN BY H.I.G. DEL	CHECKED BY CAR. & DMT	DATE MARCH 3, 1965	SHEET 7 OF 14





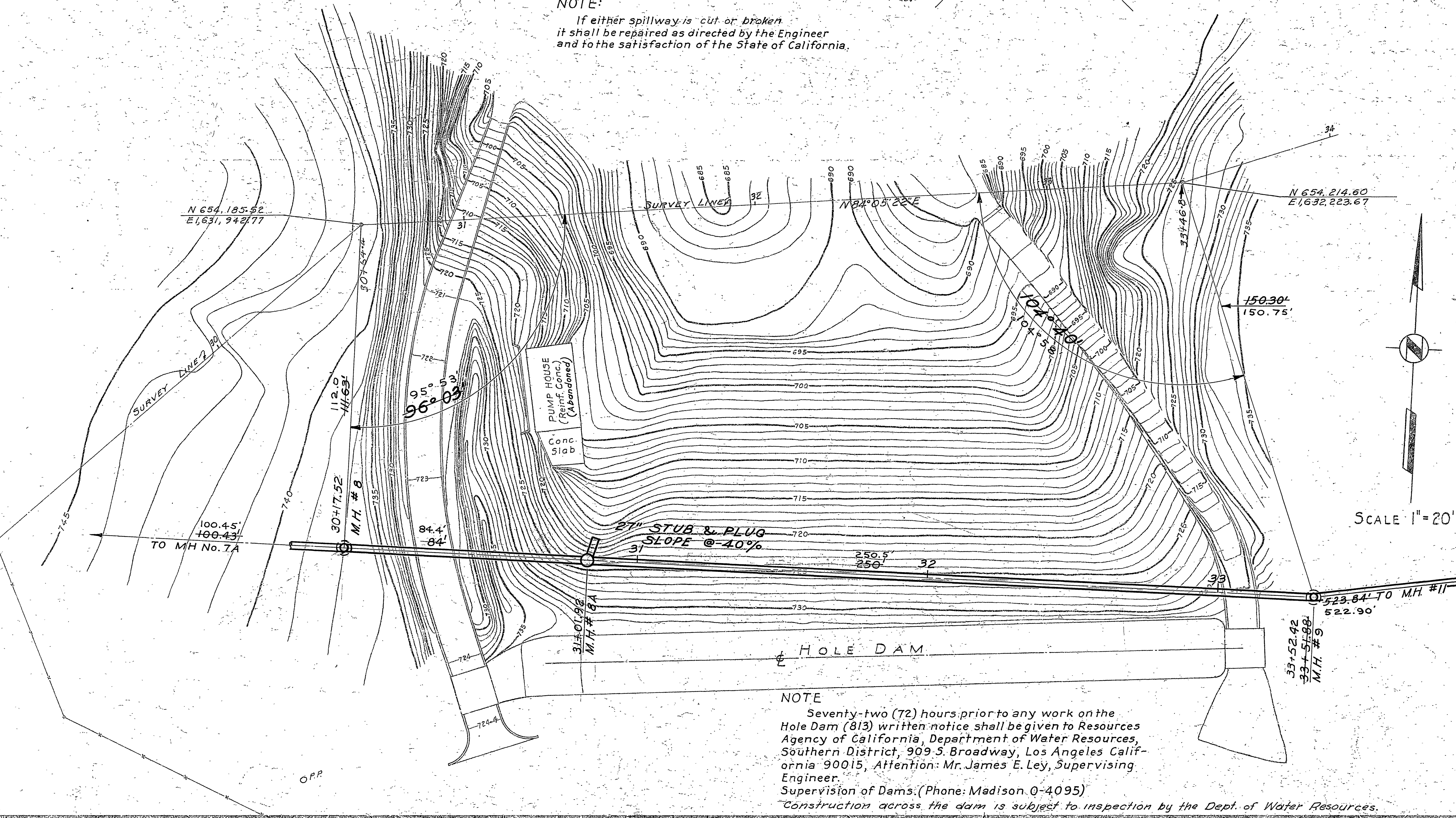
NOTE:  
If either spillway is cut or broken it shall be repaired as directed by the Engineer and to the satisfaction of the State of California.



SCALE 1" = 20'

R.C.E. 5358 *John A. Carallo* DATE APRIL 1964  
**JOHN CAROLLO ENGINEERS**  
PHOENIX, ARIZONA

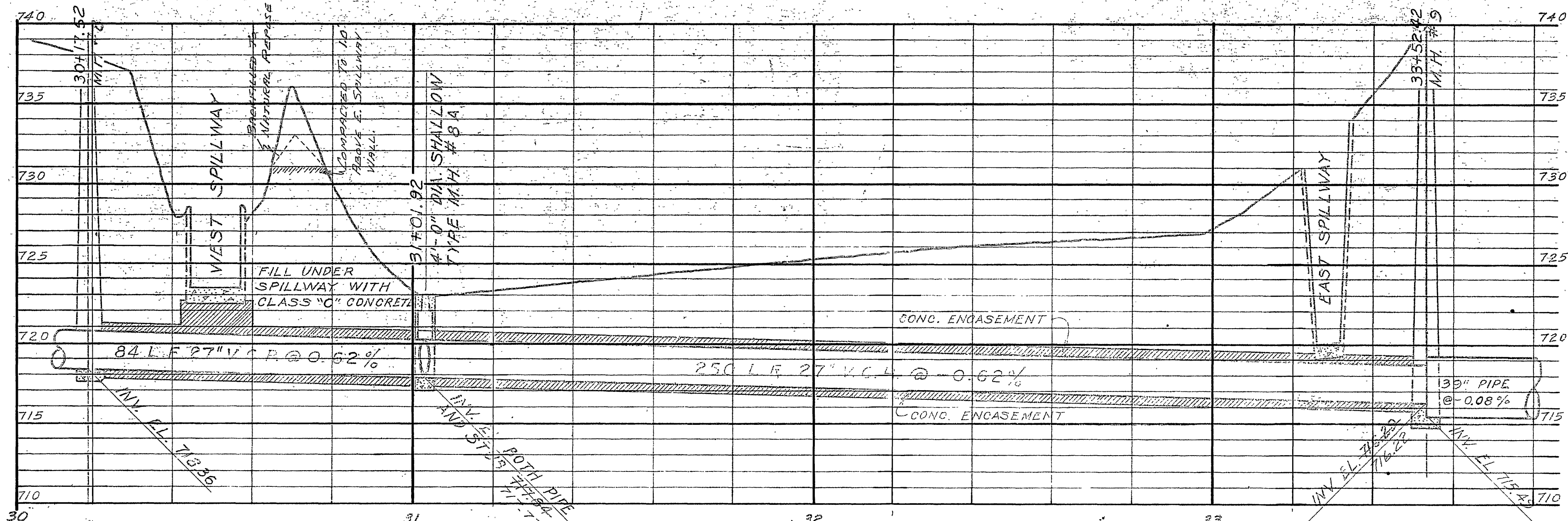
REVISIONS		CITY OF RIVERSIDE, CALIFORNIA DEPARTMENT OF PUBLIC WORKS	
MARK	DATE	DESCRIPTION	
DESIGNED BY D.M.T.		SUBMITTED BY PARK DEPT.	APPROVED BY <b>JAMES F. MARTINEK</b> DIRECTOR OF PUBLIC WORKS
DRAWN BY D.M.T. S.C.C.		TRAFFIC DIV.	PROJECT NO. <b>S-613</b>
CHECKED BY D.M.T. & C.A.R.		RECOMMENDED BY	DATE MARCH 3, 1965



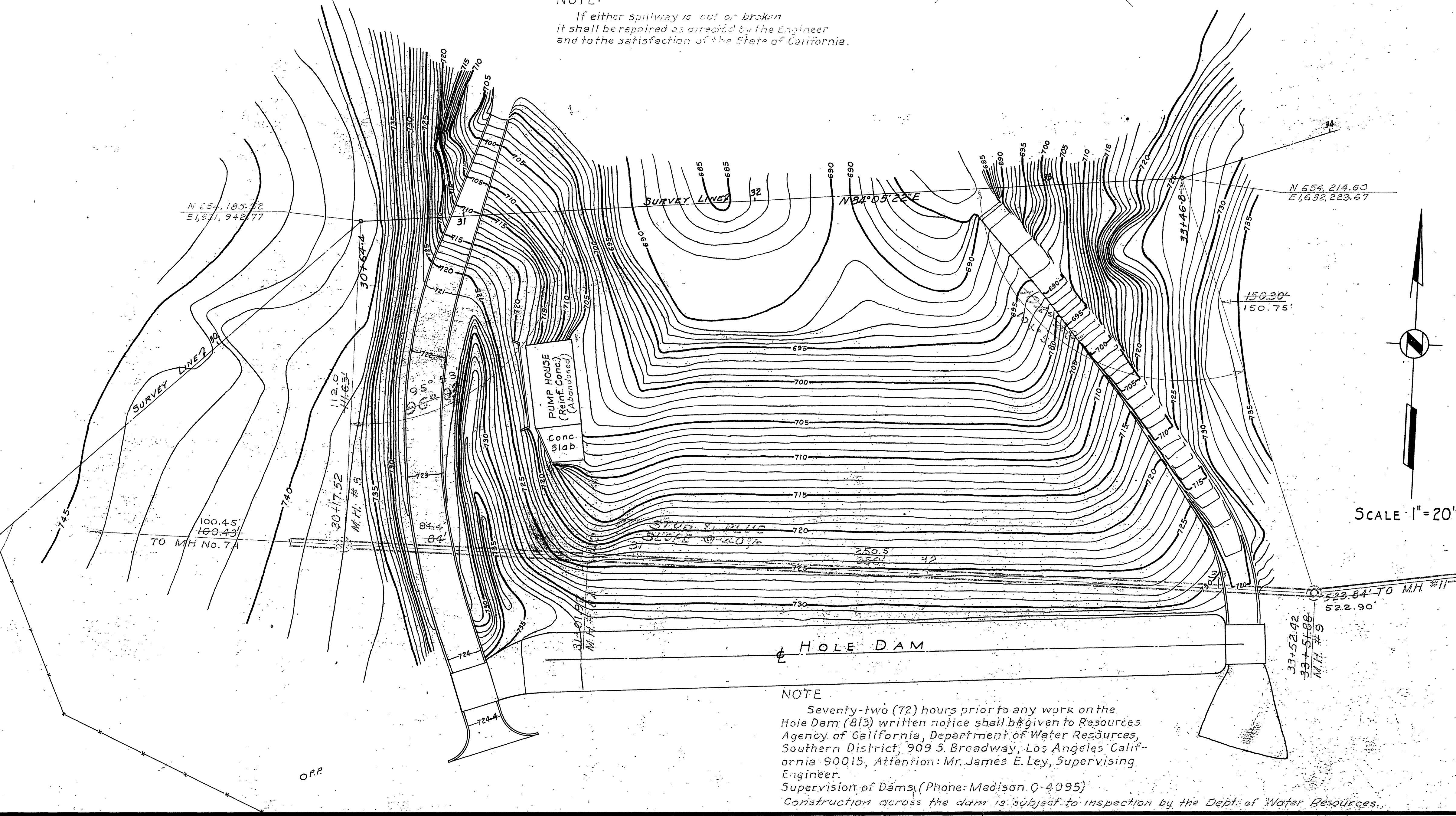
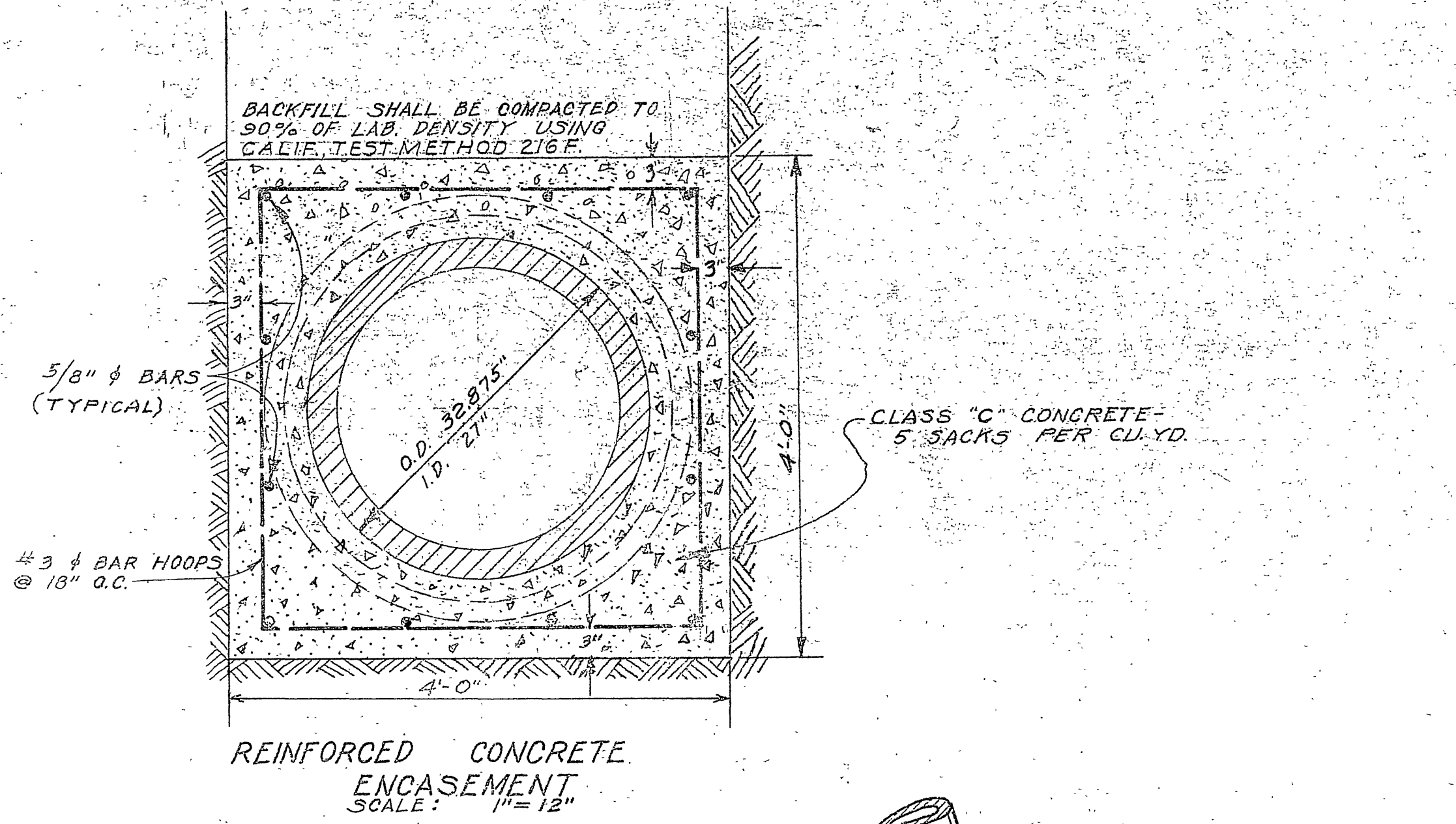
NOTE  
Seventy-two (72) hours prior to any work on the Hole Dam (813) written notice shall be given to Resources Agency of California, Department of Water Resources, Southern District, 909 S. Broadway, Los Angeles California 90015, Attention: Mr. James E. Ley, Supervising Engineer.  
Supervision of Dams: (Phone: Madison 0-4095)  
Construction across the dam is subject to inspection by the Dept. of Water Resources.

O.P.P.

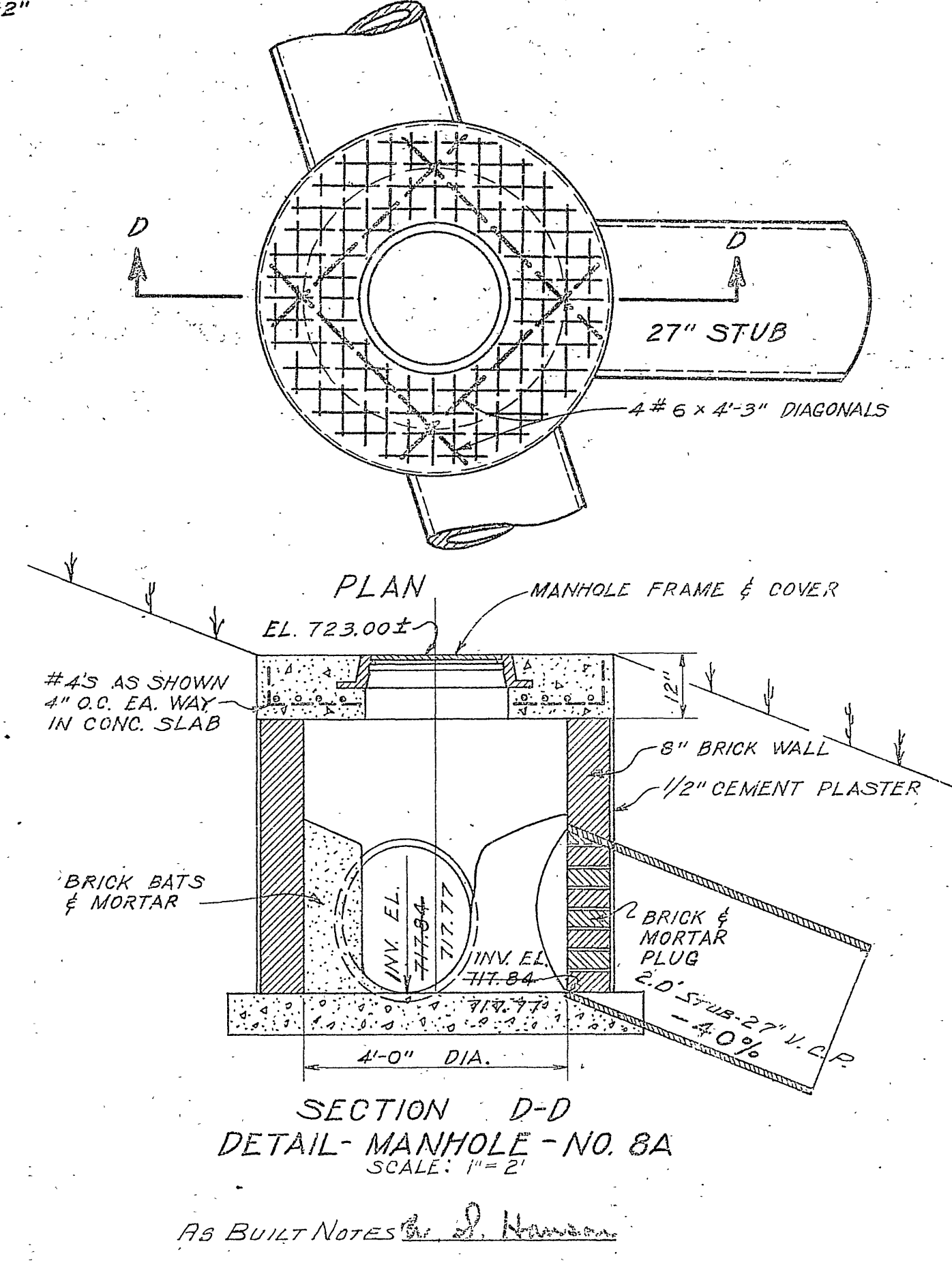




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NOTE  
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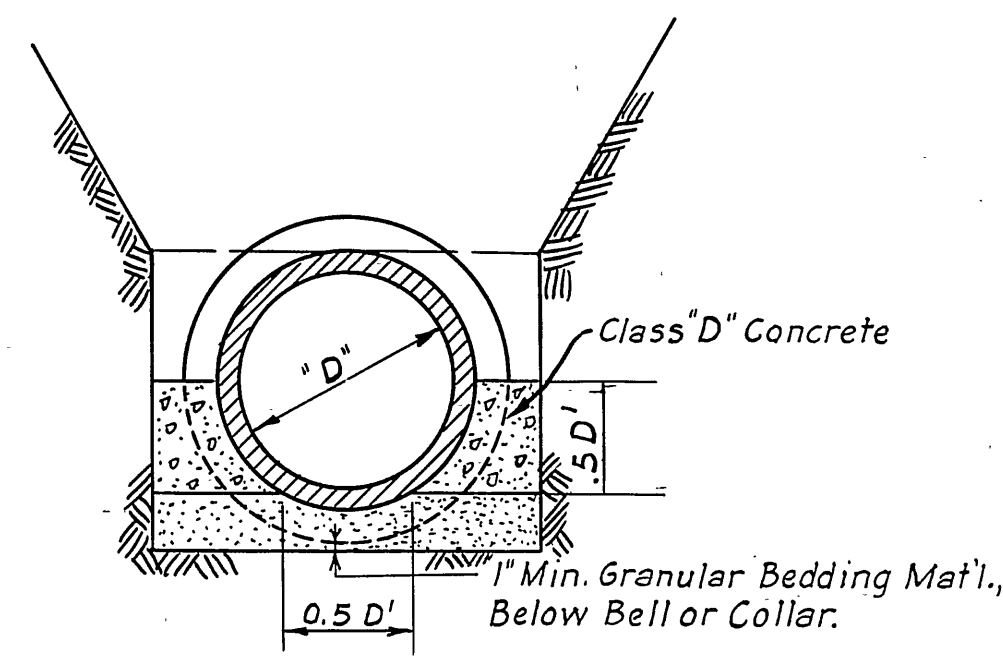


SCALE: 1" = 20'

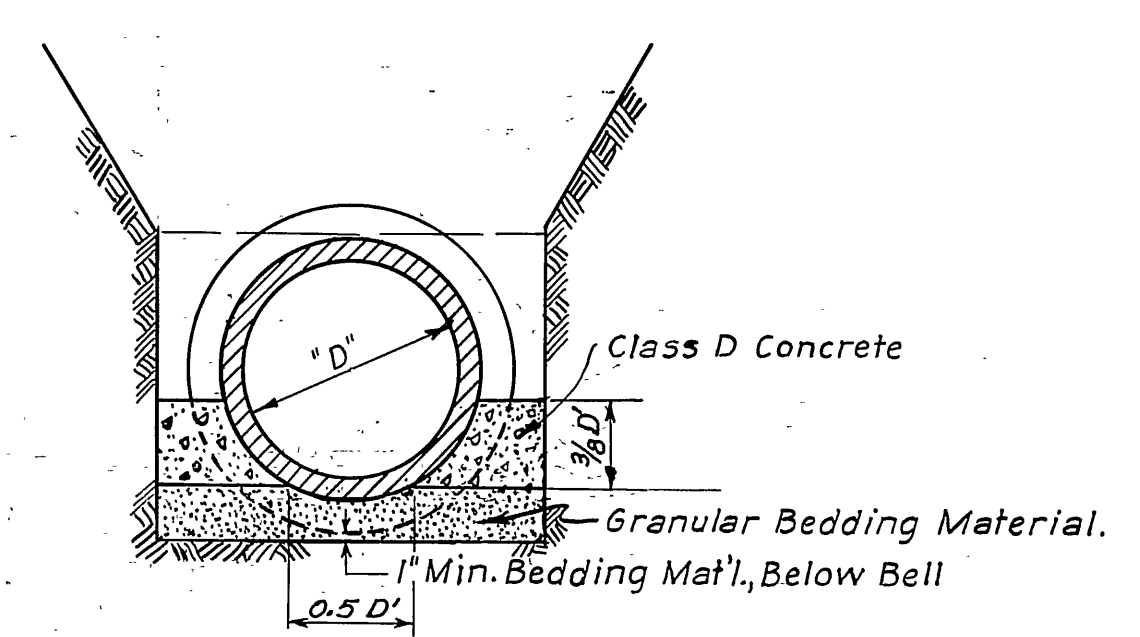
R.C.E. 5358 *John A. Casale* DATE APRIL 1964  
**JOHN CAROLLO ENGINEERS**  
PHOENIX, ARIZONA

REVISIONS		CITY OF RIVERSIDE, CALIFORNIA DEPARTMENT OF PUBLIC WORKS	
MARK	DATE	DESCRIPTION	
		ARLANZA TRUNK SEWER INTERCEPTORS	
		LINE A, HOLE DAM CROSSING	
DESIGNED BY	SUBMITTED BY	APPROVED BY	PROJ. NO.
D.M.T.		<i>JAMES F. MARTINEZ</i> DIRECTOR OF PUBLIC WORKS	S-613
DRAWN BY	PARK DEPT.	TRAFFIC DIV.	
D.M.T. S.C.C.			
CHECKED BY	RECOMMENDED BY	DATE	
		MARCH 3, 1965	SHEET 8 OF 14

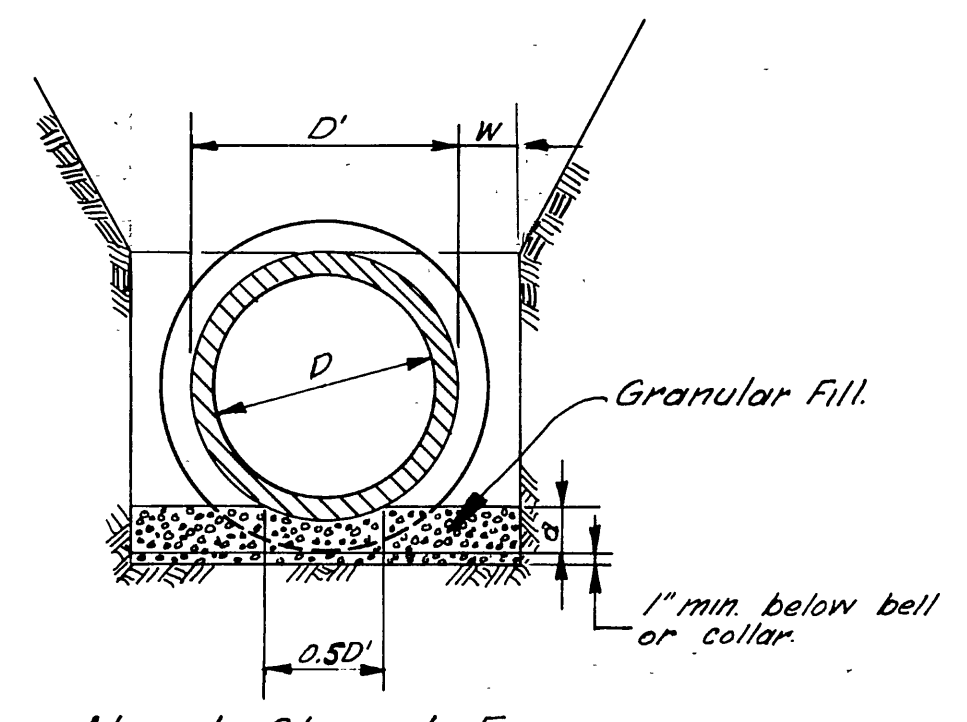




**CONCRETE CRADLE**  
Load Factor 2.3  
**CASE IV**



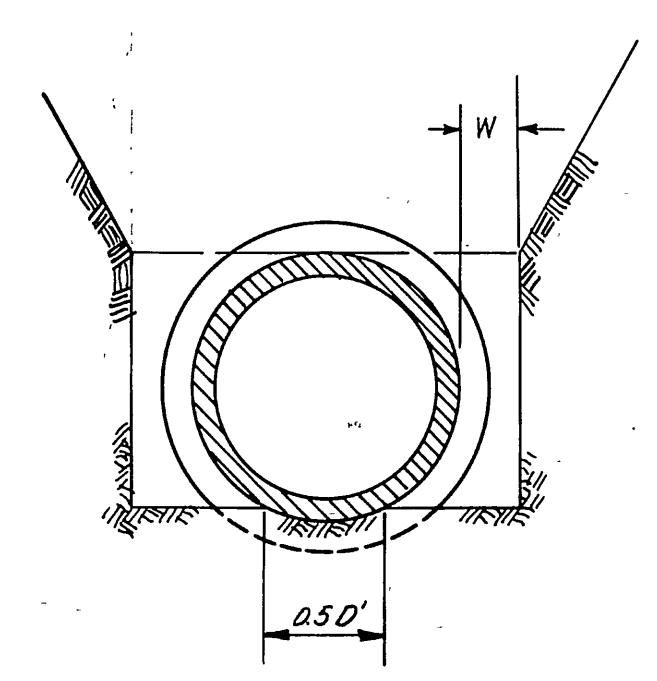
**CONCRETE CRADLE**  
Load Factor 2.1  
**CASE III**



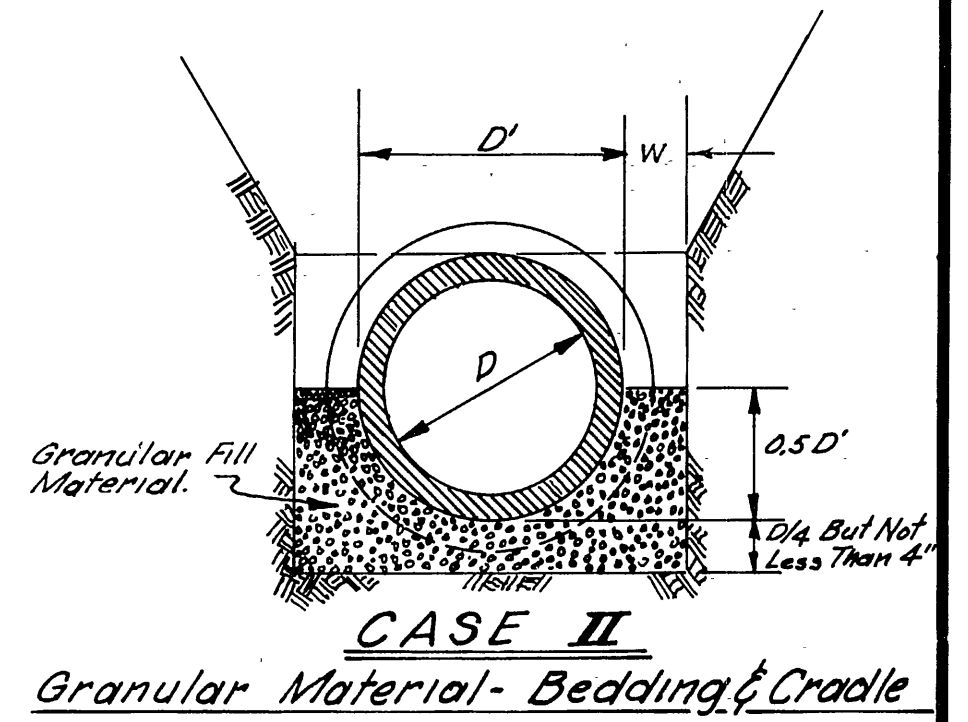
Hand Shaped From Granular Bedding Material  
**CASE I - NORMAL BEDDING - OPTIONAL METHODS**  
Load Factor - 1.5

Table of Values for "a"

D	Wt. Pipe	A.C. Pipe	R.C. Pipe
18"	4"	~	~
24"	5.5"	~	~
27"	6.25"	3"	2 1/8"
39"	8.5"	~	3"



Hand Shaped From Undisturbed Soil



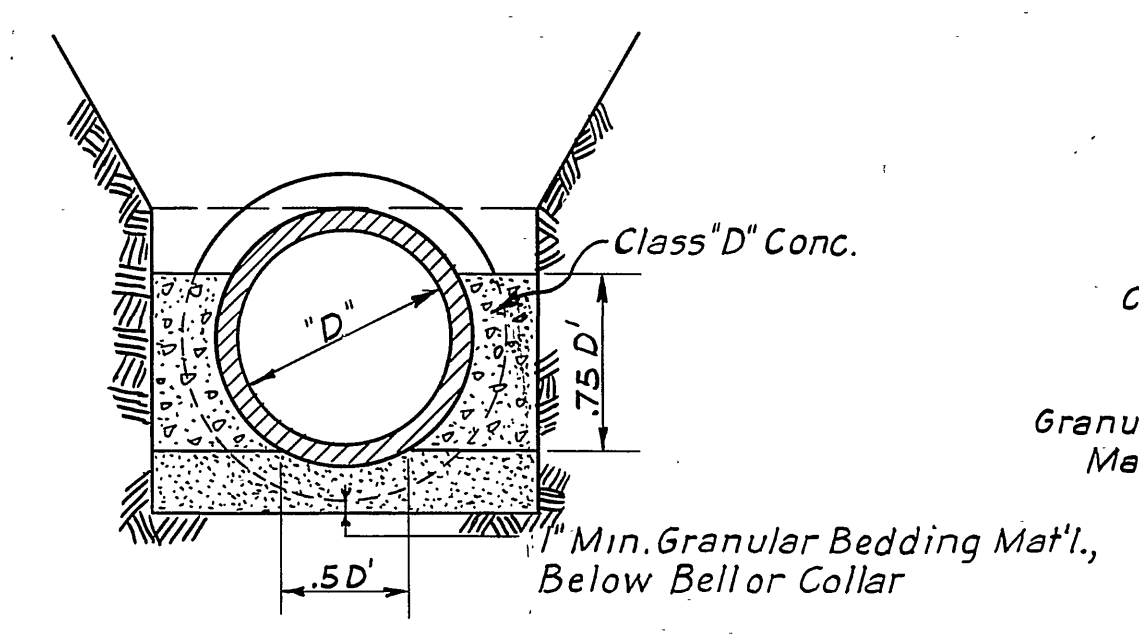
**CASE II**  
Granular Material - Bedding & Cradle  
Load Factor - 1.9  
Pipe shall be installed after granular bedding material has been placed in trench bottom. Additional Granular material shall then be placed and compacted under haunches of pipe and up to spring line.

"Granular Fill" shall be crushed stone or pea gravel with not less than 95% passing 1/2" and not less than 95% retained on #4; shall be placed in not more than 6" layers and compacted by slicing with a shovel.

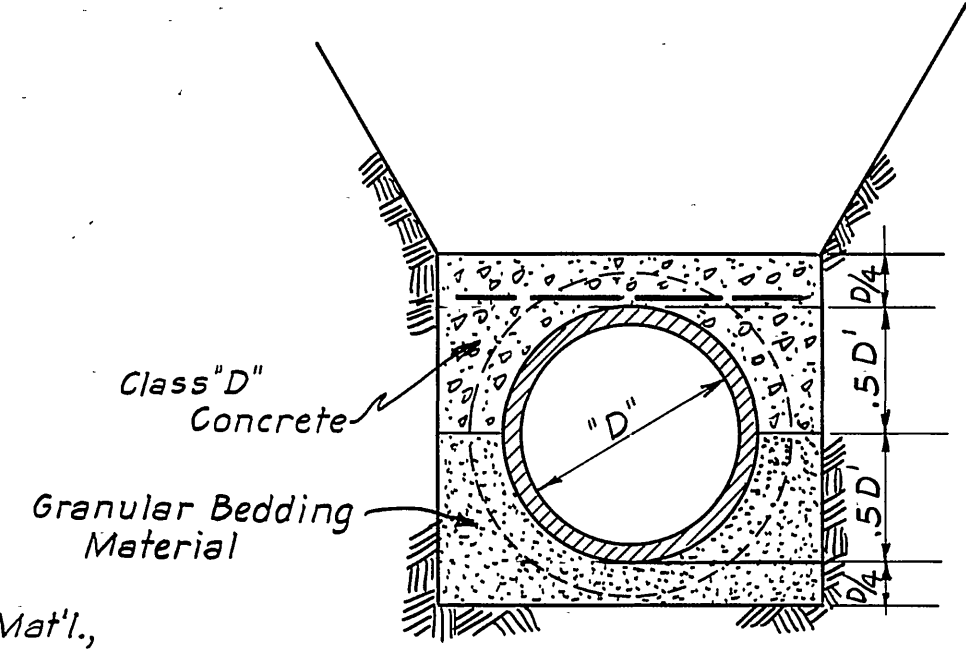
Job excavated material free from rocks & clods over 2" in greatest diameter shall be tamped on both sides of pipe to the spring line. The same material shall be used to 1" over the bell. After successful water test, balance of trench shall be backfilled

with excavated material compacted by means of jettling or tamping or any other method to a density of 90% in the top 3" of trench 85% in the bottom when tested by the State of California Test Method 216 F.

Where cover over the top of the pipe is greater than 8 feet "W" shall be 8" measured at top of pipe. If "W" is more than 8" the Contractor shall construct Bedding as directed by the Engineer at no additional cost to the Owner. Above the top of the pipe, excess width is not critical. Unless otherwise shown on the drawings, CASE I Bedding shall be constructed.



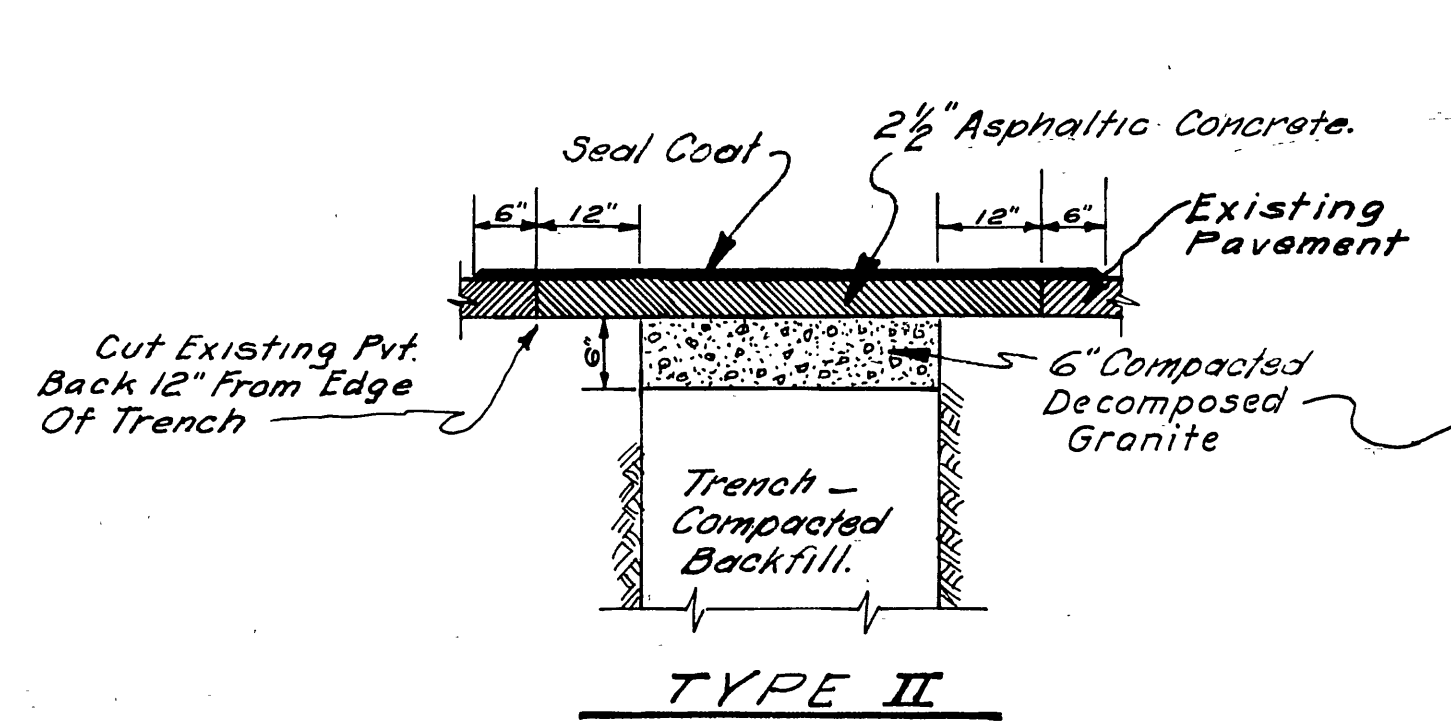
**CASE V**  
**CONCRETE CRADLE**  
Load Factor 2.7



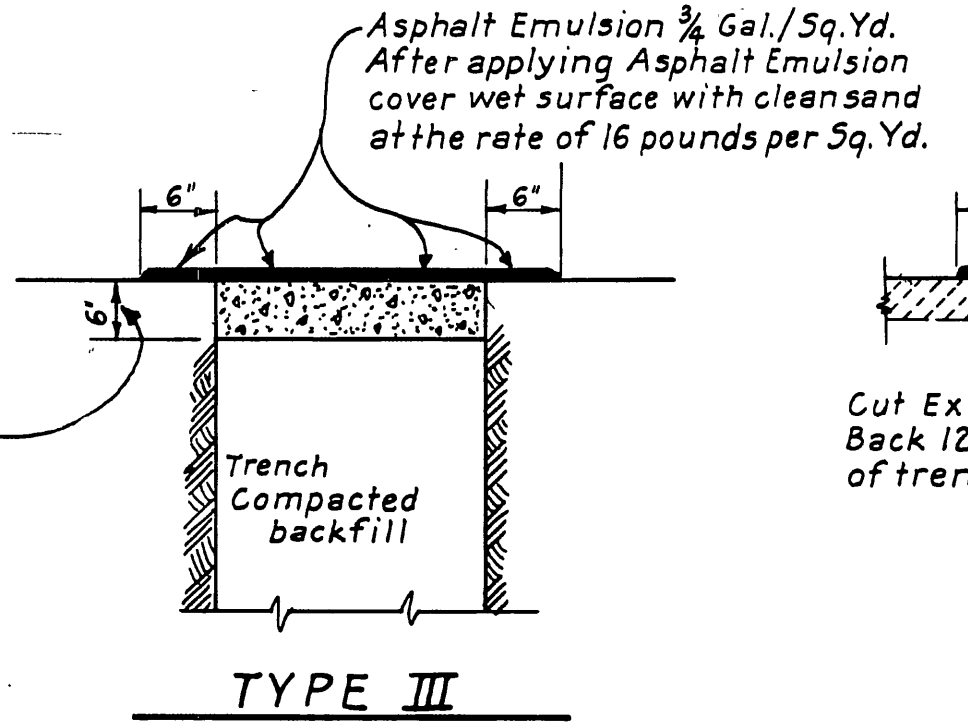
**CASE VI**  
**CONCRETE ARCH**  
LOAD FACTORS

Unreinforced	3.2
Reinforced (P=40%)	3.5
Reinforced (P=1.00%)	4.8

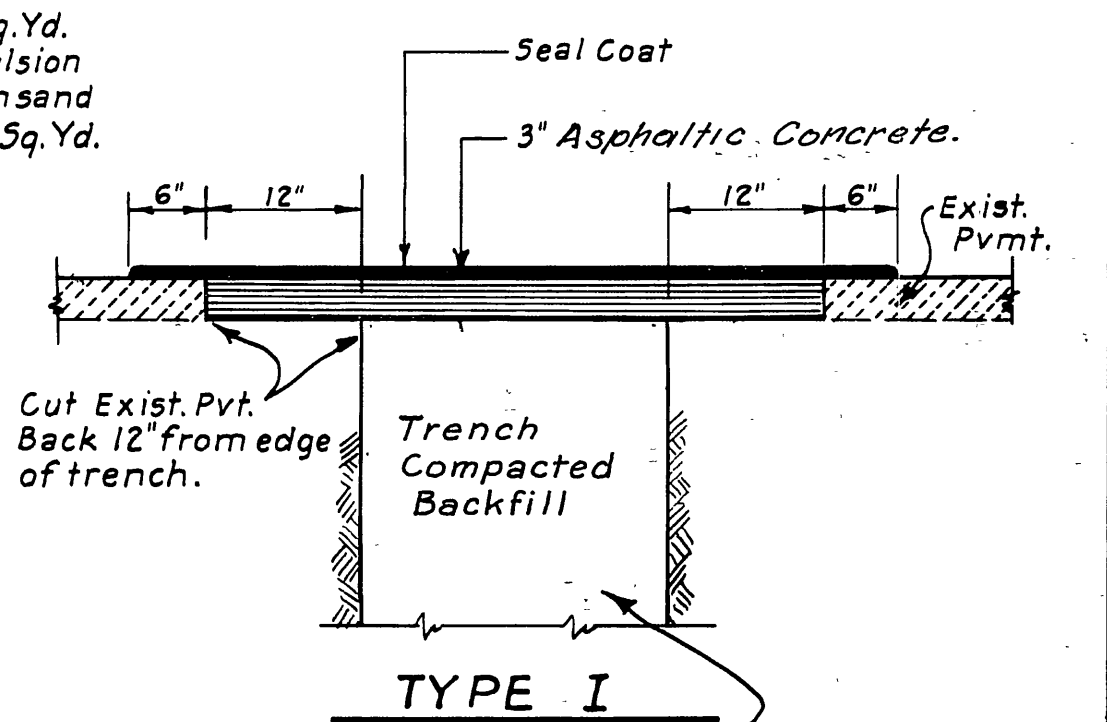
D' = Outside Diameter of Pipe.



**TYPE II**



**TYPE III**



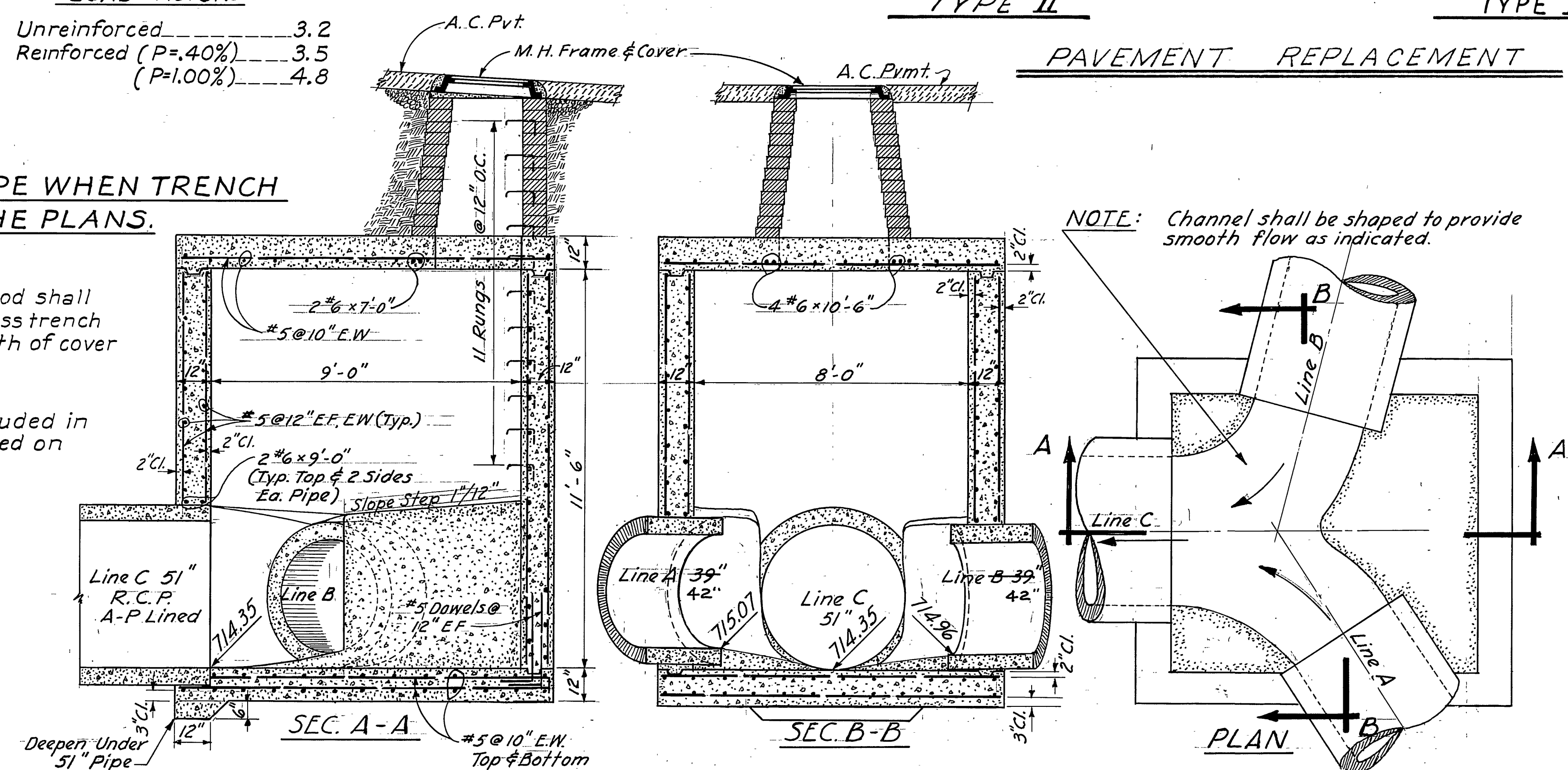
**TYPE I**

Backfill with Class 2 1/2 Max. Aggregate Base As Specified.

**METHODS FOR PROTECTING SEWER PIPE WHEN TRENCH IS WIDER THAN INDICATED ON THE PLANS.**

The Engineer will designate which method shall be used depending on the amount of excess trench width, the kind & size of pipe and the depth of cover over the pipe.

CASE II Bedding & Cradle shall be included in this group where not otherwise indicated on the Plans.



**SPECIAL JUNCTION BOX - MANHOLE NO. 11**

NOTE: Channel shall be shaped to provide smooth flow as indicated.

SCALE 3/8" = 1'-0"

**AS BUILT**  
W.S.H.

RCE 5358 *John A. Carollo* DATE APRIL 1964

**JOHN CAROLLO ENGINEERS**  
PHOENIX, ARIZONA

CITY OF RIVERSIDE, CALIFORNIA  
DEPARTMENT OF PUBLIC WORKS

ARLANZA TRUNK SEWER INTERCEPTORS

MISC. DETAILS

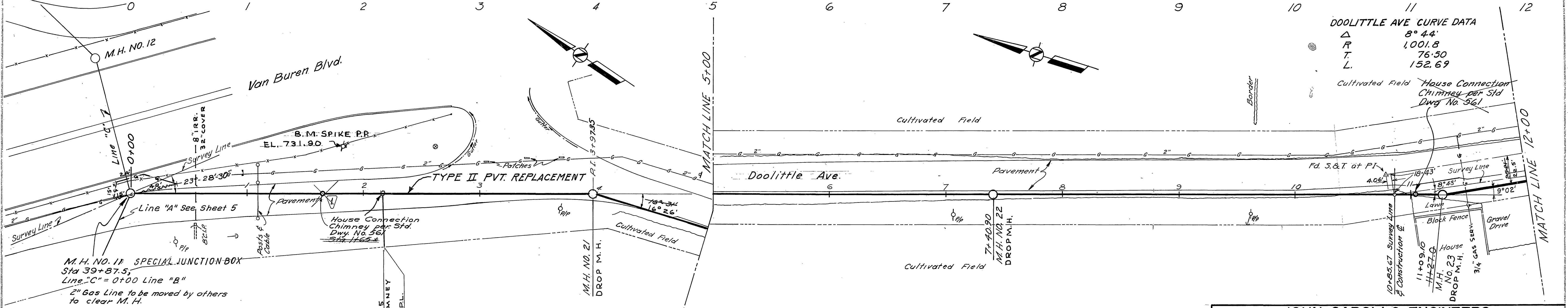
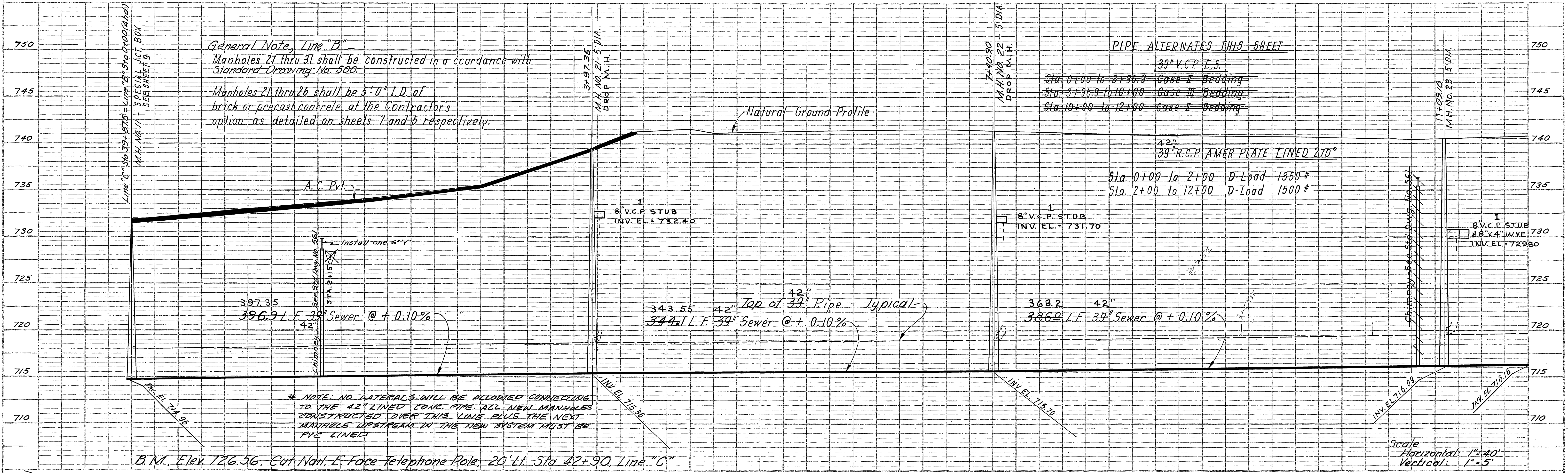
MARK	DATE	DESCRIPTION

DESIGNED BY JAC. RMB-RAY	SUBMITTED BY	APPROVED BY	PROJ. NO.
DRAWN BY G.J.R. DEL	PARK DEPT. TRAFFIC DIV.	JAMES F. MARTINEK DIRECTOR OF PUBLIC WORKS	S-613
CHECKED BY CAR & DMT.	RECOMMENDED BY	DATE MARCH 3, 1965	SHEET 9 OF 14



PLANS  
 SURVEYED  
 ALIGNED  
 NOTE BOOK  
 REVISIONS CHECKED

PROFILE  
 SURVEYED  
 REVISIONS CHECKED



**JOHN CAROLLO ENGINEERS**  
 PHOENIX, ARIZONA

CITY OF RIVERSIDE, CALIFORNIA  
 DEPARTMENT OF PUBLIC WORKS

ARLANZA  
 TRUNK SEWER  
 INTERCEPTORS

LINE B - PLAN - PROFILE

REVISIONS		DESCRIPTION
MARK	DATE	
1	9-1-65	added chimney, change order #1
1	9-1-65	DROP MANHOLES CHANGE ORDER #1

DESIGNED BY JAC. CAR. RMB  
 DRAWN BY DEL  
 CHECKED BY D.M.T. & CAR.

SUBMITTED BY  
 PARK DEPT. TRAFFIC DIV.

APPROVED BY JAMES F. MARTINEK  
 DIRECTOR OF PUBLIC WORKS

PROJ. NO. S-613  
 SHEET 10 OF 14

DATE MARCH 3, 1965

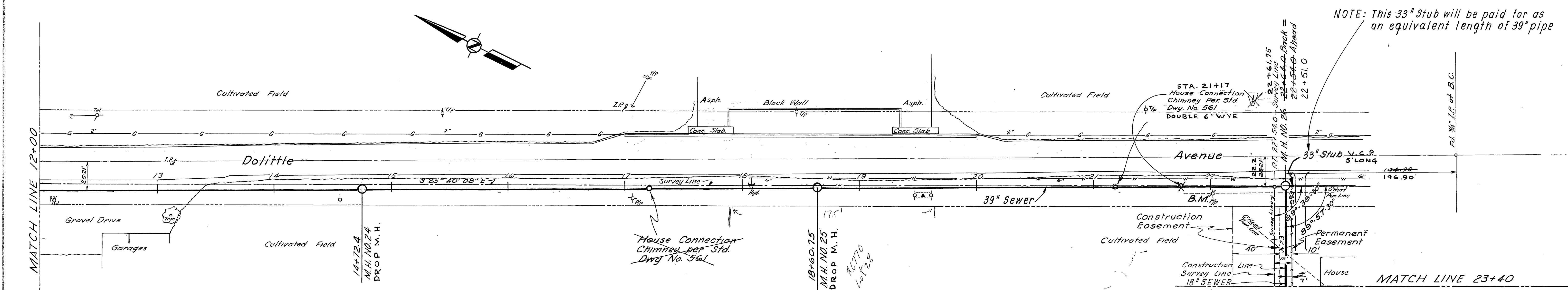
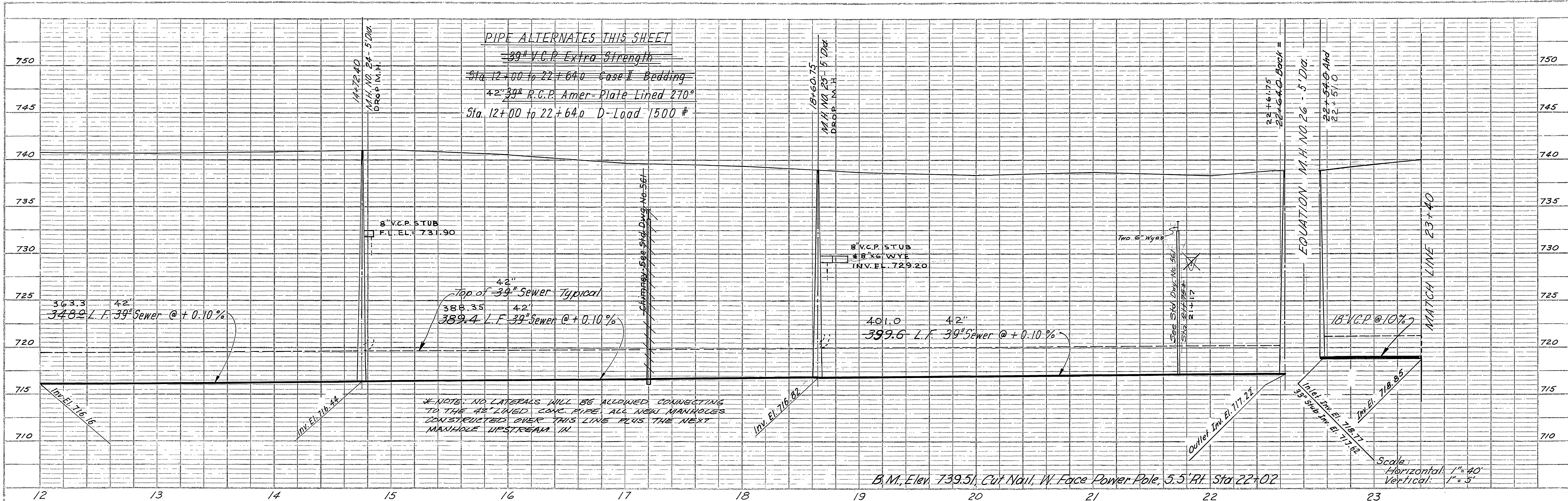
AS BUILT  
 W. S. H.

RCE 5358 John A. Carollo DATE APRIL 1964



DATE: \_\_\_\_\_  
 BY: \_\_\_\_\_  
 CHECKED: \_\_\_\_\_  
 PLANNED: \_\_\_\_\_  
 PLOTTED: \_\_\_\_\_  
 NOTE BOOK: \_\_\_\_\_  
 ALIGNMENT: \_\_\_\_\_  
 CHECKER: \_\_\_\_\_

DATE: \_\_\_\_\_  
 BY: \_\_\_\_\_  
 CHECKED: \_\_\_\_\_  
 PROFILE: \_\_\_\_\_  
 PLOTTED: \_\_\_\_\_  
 NOTE BOOK: \_\_\_\_\_  
 LINES: \_\_\_\_\_  
 CHECKER: \_\_\_\_\_



NOTE: This 33" Stub will be paid for as an equivalent length of 39" pipe

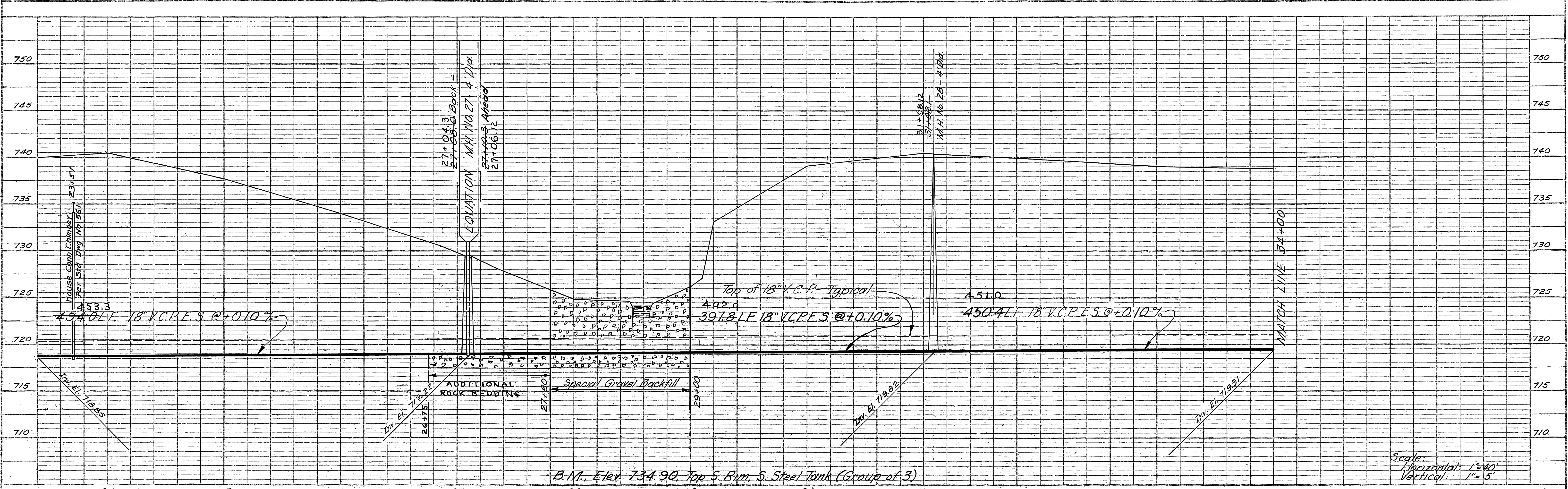
REVISIONS			CITY OF RIVERSIDE, CALIFORNIA DEPARTMENT OF PUBLIC WORKS
MARK	DATE	DESCRIPTION	
1	9-1-65	ADDED CHIMNEY PER CHANGE ORDER NO. 2 - J.C. WALKER	ARLANZA TRUNK SEWER INTERCEPTORS
DESIGNED BY: JAC. CAR. RMB DRAWN BY: DEL CHECKED BY: DMT & CAR			APPROVED BY: JAMES F. MARTINEK DIRECTOR OF PUBLIC WORKS DATE: MARCH 3, 1965
SUBMITTED BY: PARK DEPT. RECOMMENDED BY: ASSISTANT CITY ENGINEER			PROJECT NO.: S-613 SHEET 11 OF 14

**AS BUILT**  
 W.S.H.  
 \*As built 2.3.65 TE  
 RCE 5358 John A. Carullo DATE APRIL 1964

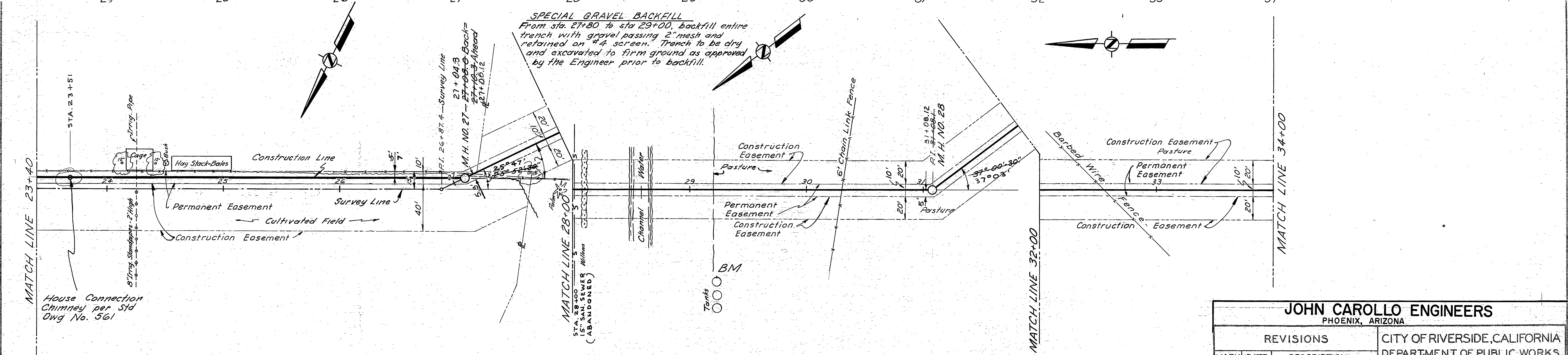


DATE: \_\_\_\_\_  
 BY: \_\_\_\_\_  
 SURVEYED: \_\_\_\_\_  
 PLOTTED: \_\_\_\_\_  
 NOTE BOOK: \_\_\_\_\_  
 ALIGNMENT CHECKED: \_\_\_\_\_

DATE: \_\_\_\_\_  
 BY: \_\_\_\_\_  
 PROFILE: \_\_\_\_\_  
 PLOTTED: \_\_\_\_\_  
 NOTE BOOK: \_\_\_\_\_  
 ELEVATION CHECKED: \_\_\_\_\_



Scale:  
 Horizontal: 1" = 40'  
 Vertical: 1" = 5'



**JOHN CAROLLO ENGINEERS**  
 PHOENIX, ARIZONA

REVISIONS		CITY OF RIVERSIDE, CALIFORNIA DEPARTMENT OF PUBLIC WORKS
MARK	DATE	
ARLANZA TRUNK SEWER INTERCEPTORS		LINE B- PLAN-PROFILE
AS BUILT W. S. H.		

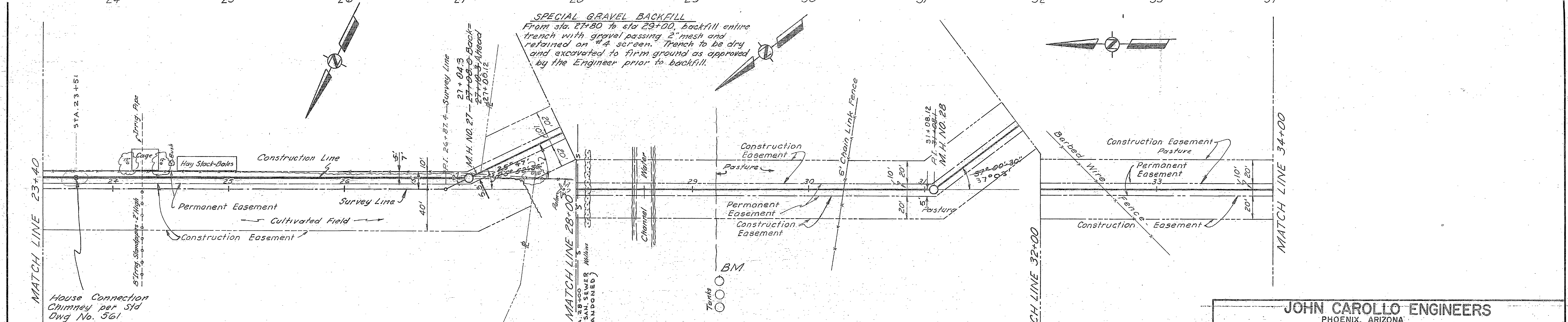
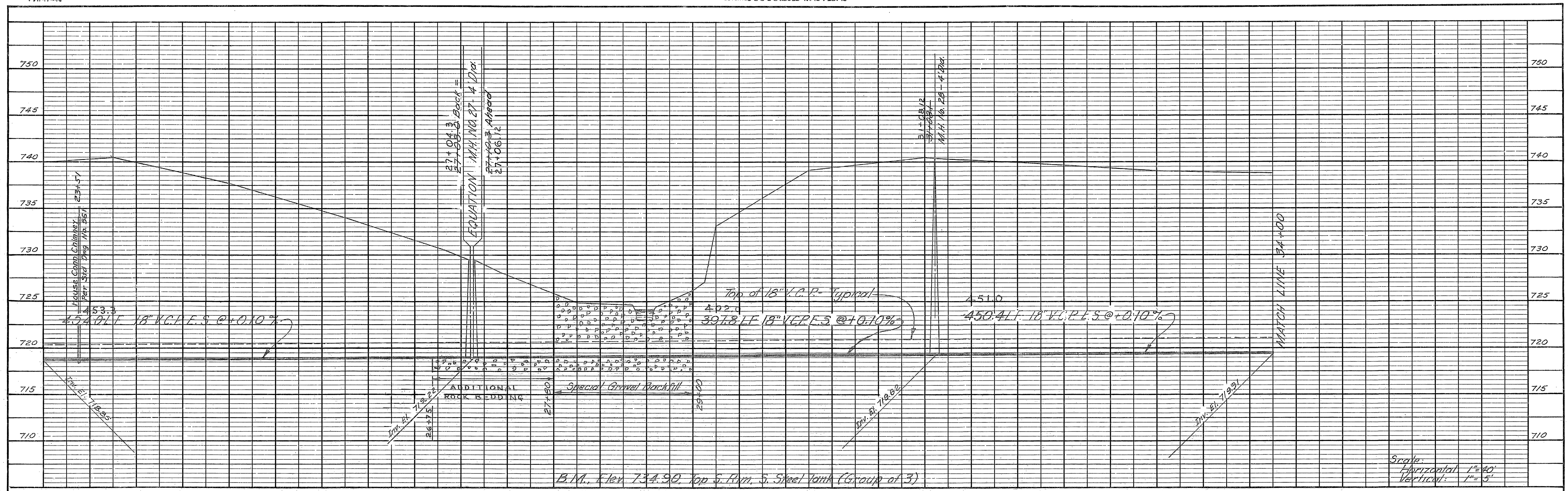
DESIGNED BY JAC. CAR. RMB	SUBMITTED BY	APPROVED BY JAMES F. MARTINEK DIRECTOR OF PUBLIC WORKS	PROJ. NO. S-613
DRAWN BY DEL	PARK DEPT. TRAFFIC DIV.	RECOMMENDED BY	SHEET 12 OF 14
CHECKED BY DMT & CAR	DATE	DATE	

RCE 5358 *John A. Carollo* DATE APRIL 1964



PLAN SURVEYED, PLOTTED, & CHECKED BY DATE

PROFILE SURVEYED, PLOTTED, & CHECKED BY DATE



Scale:  
Horizontal 1" = 40'  
Vertical 1" = 5'

**JOHN CAROLLO ENGINEERS**  
PHOENIX, ARIZONA

REVISIONS		CITY OF RIVERSIDE, CALIFORNIA DEPARTMENT OF PUBLIC WORKS	
MARK	DATE	DESCRIPTION	

ARLANZA  
TRUNK SEWER  
INTERCEPTORS

LINE B- PLAN- PROFILE

DESIGNED BY JAC. CAR. RMB	SUBMITTED BY	APPROVED BY JAMES F. MARTINEZ DIRECTOR OF PUBLIC WORKS	PROJ. NO.
DRAWN BY DEL	PARK DEPT. TRAFFIC DIV.		
CHECKED BY DMT & CAR.	RECOMMENDED BY	DATE MARCH 3, 1965	

**S-613**  
SHEET 12 OF 14

**AS BUILT**  
W. S. H.

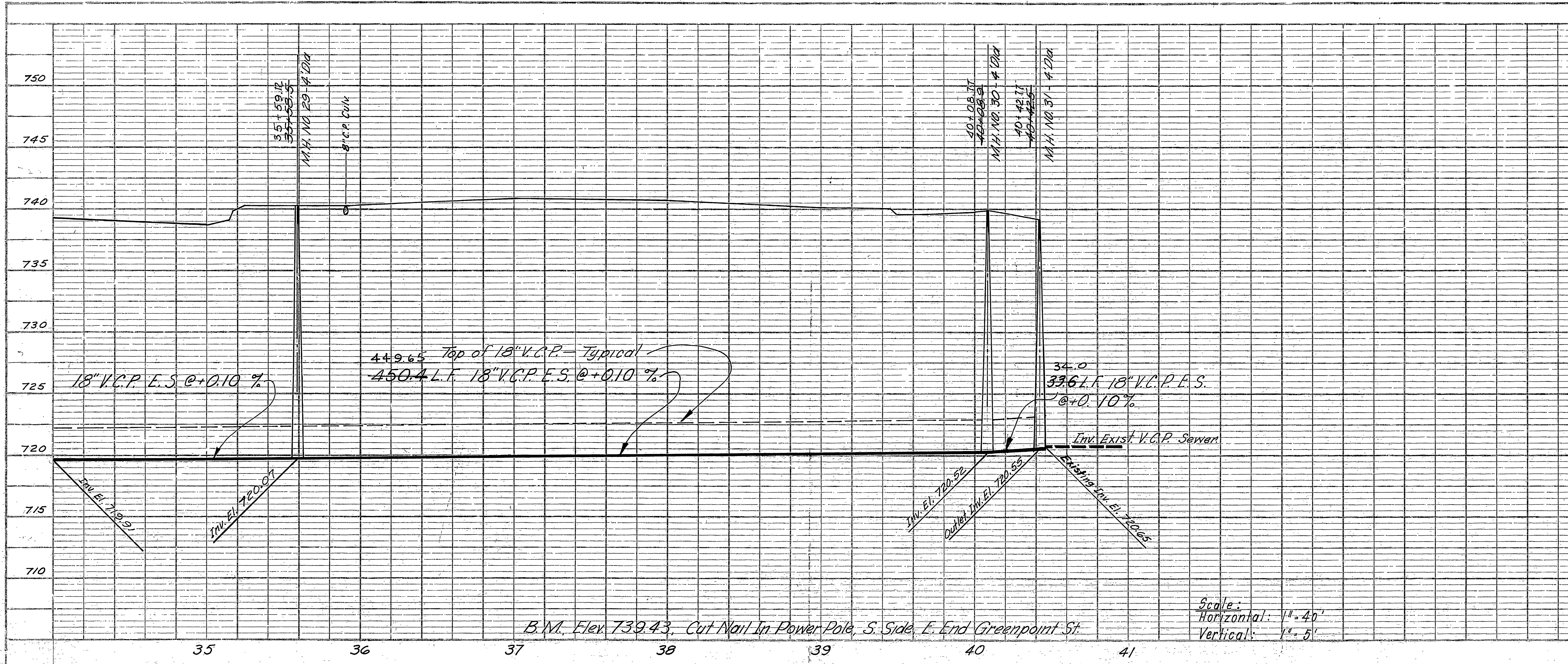
RCE 5358 *John A. Carullo* DATE APRIL 1964

PRINTED IN U.S.A. ON FEDERAL TRADING CLUB PAPER  
 ENGINEERS: JOHN CAROLLO ENGINEERS, PHOENIX, ARIZONA  
 PLATE I PLAN-PROFILE B & R STANDARD

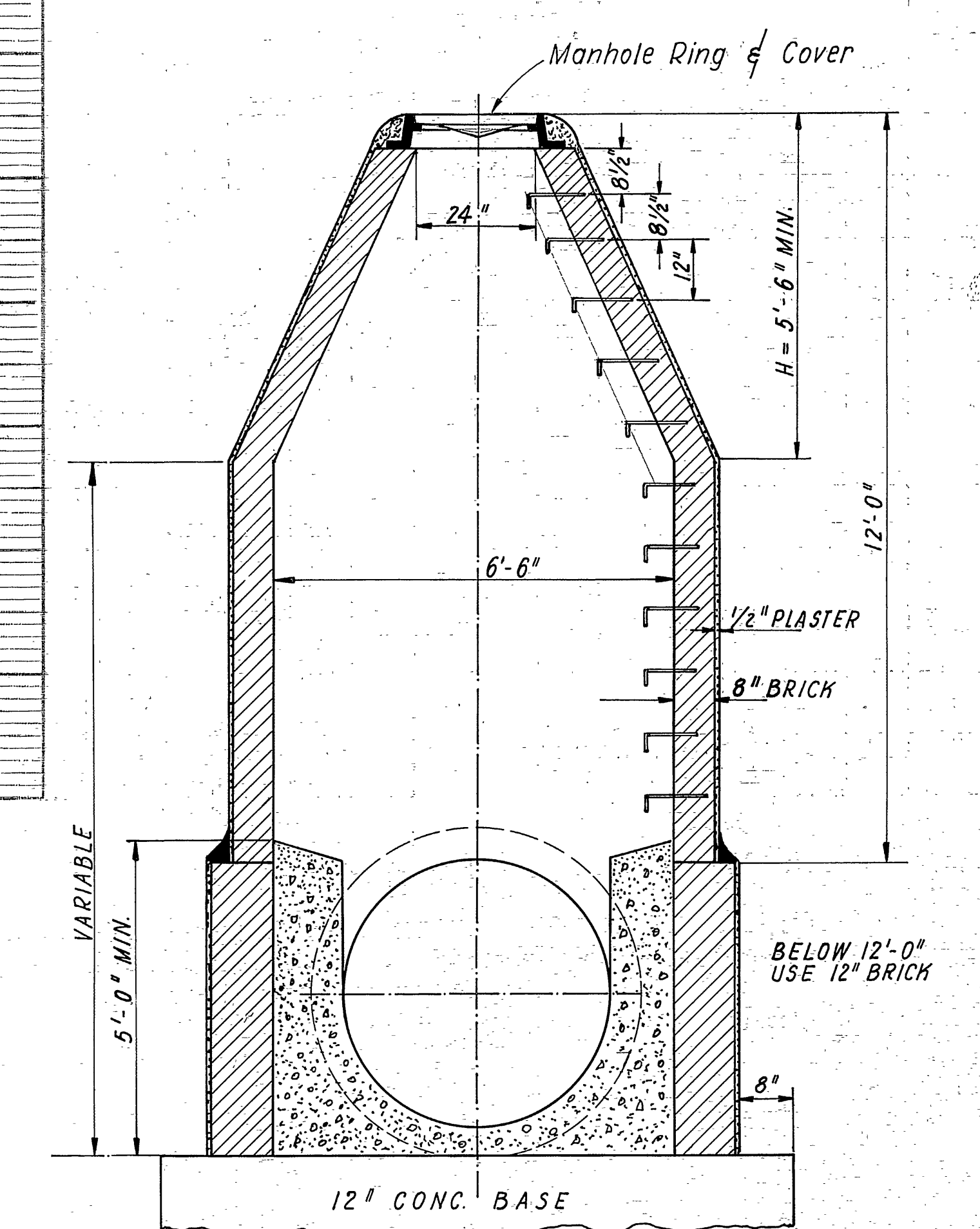
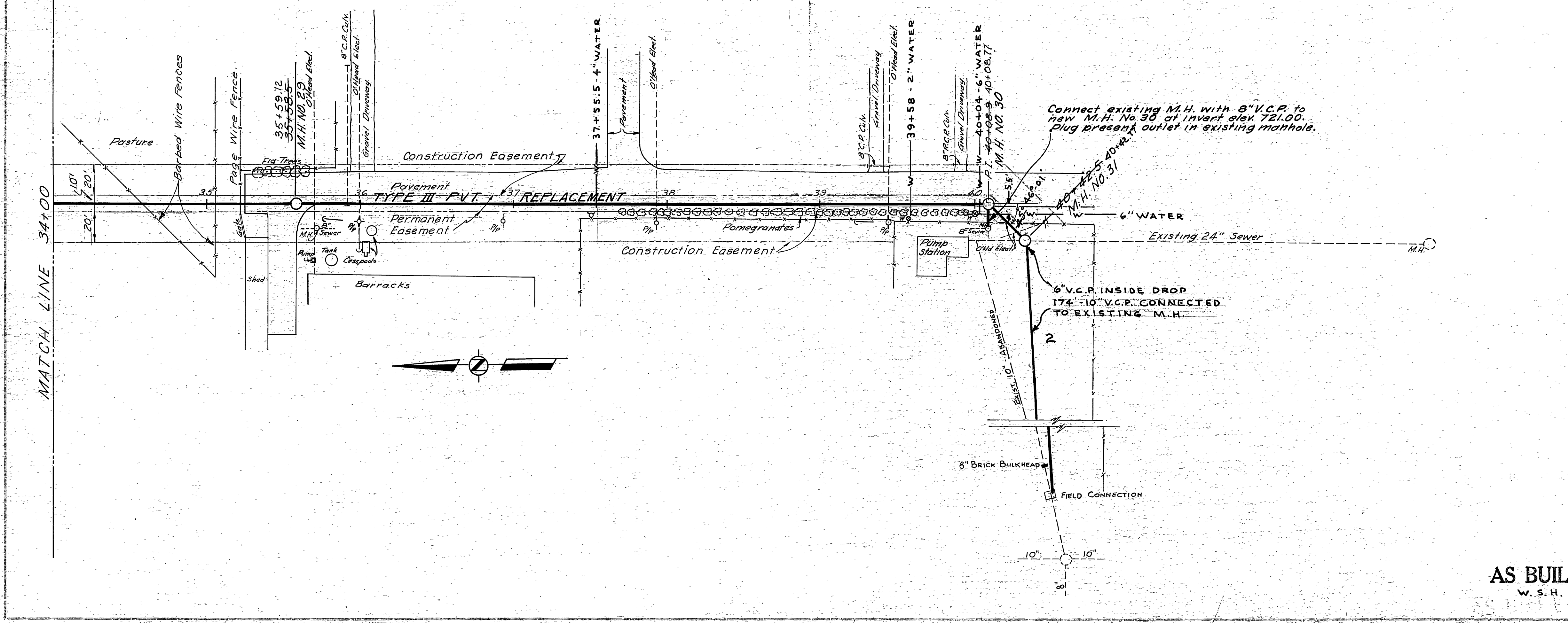


PLAN SURVEYED, PLOTTED, NOTE BOOK ALIGNED, CHECKED.

PROFILE SURVEYED, PLOTTED, NOTE BOOK GRADES CHECKED.



Scale:  
Horizontal: 1" = 40'  
Vertical: 1" = 5'



6'-6" DIA. BRICK M.H.  
SCALE: 1" = 2'-0"

RCE 5358 *J. A. Carollo* DATE APRIL 1964

**JOHN CAROLLO ENGINEERS**  
PHOENIX, ARIZONA

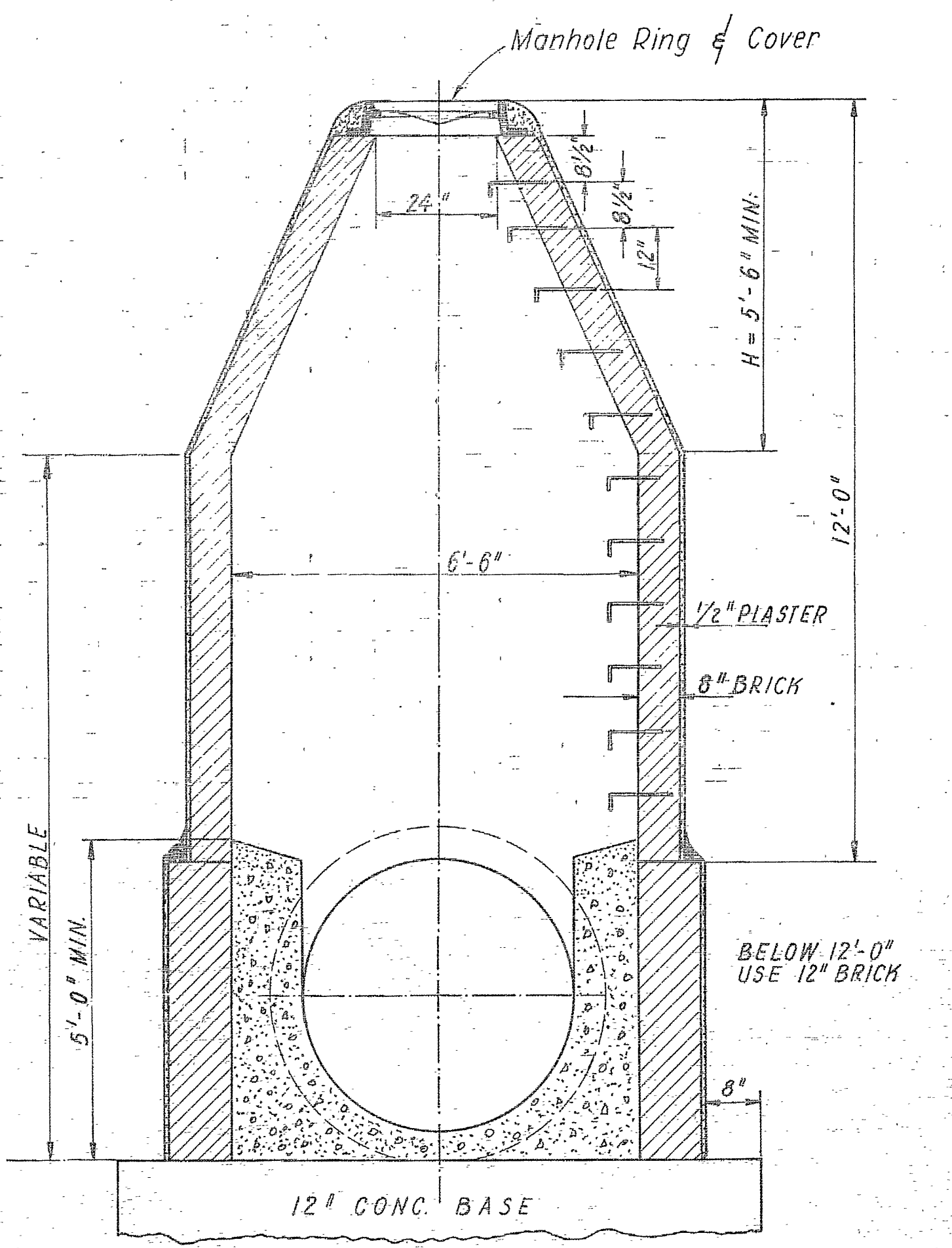
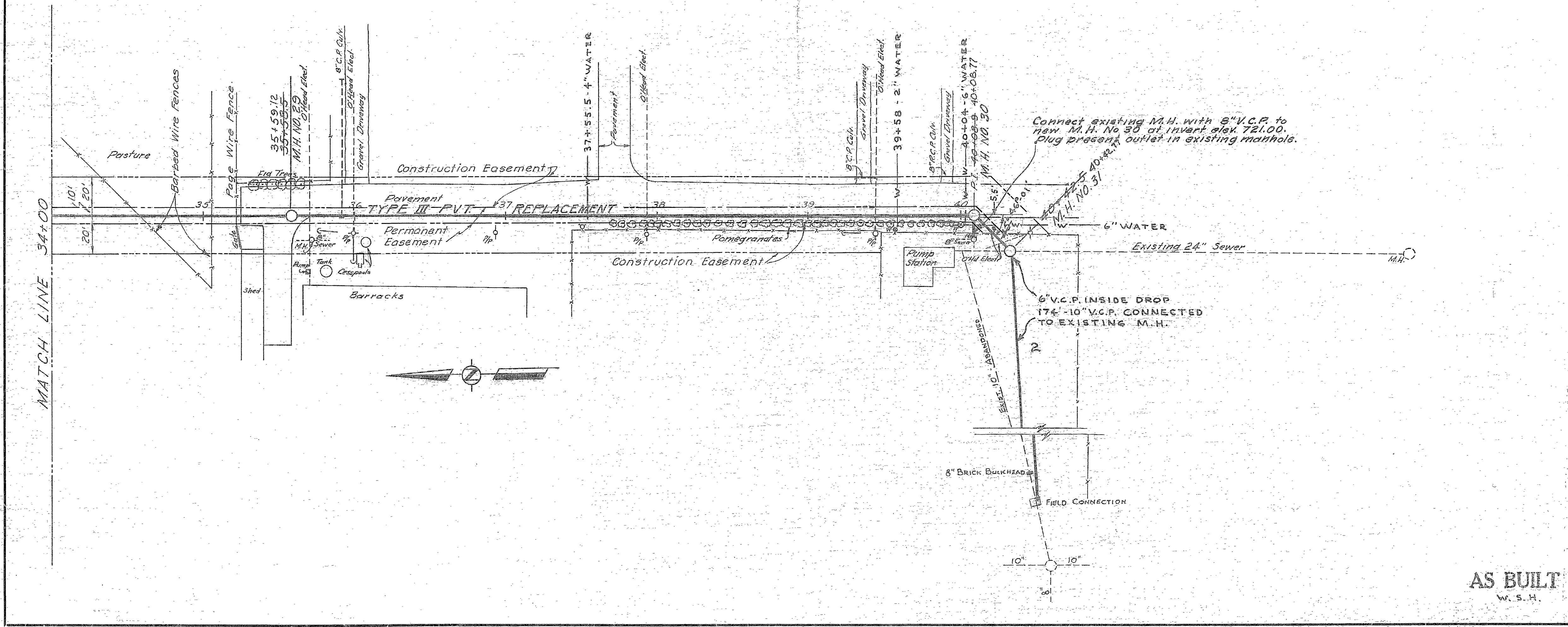
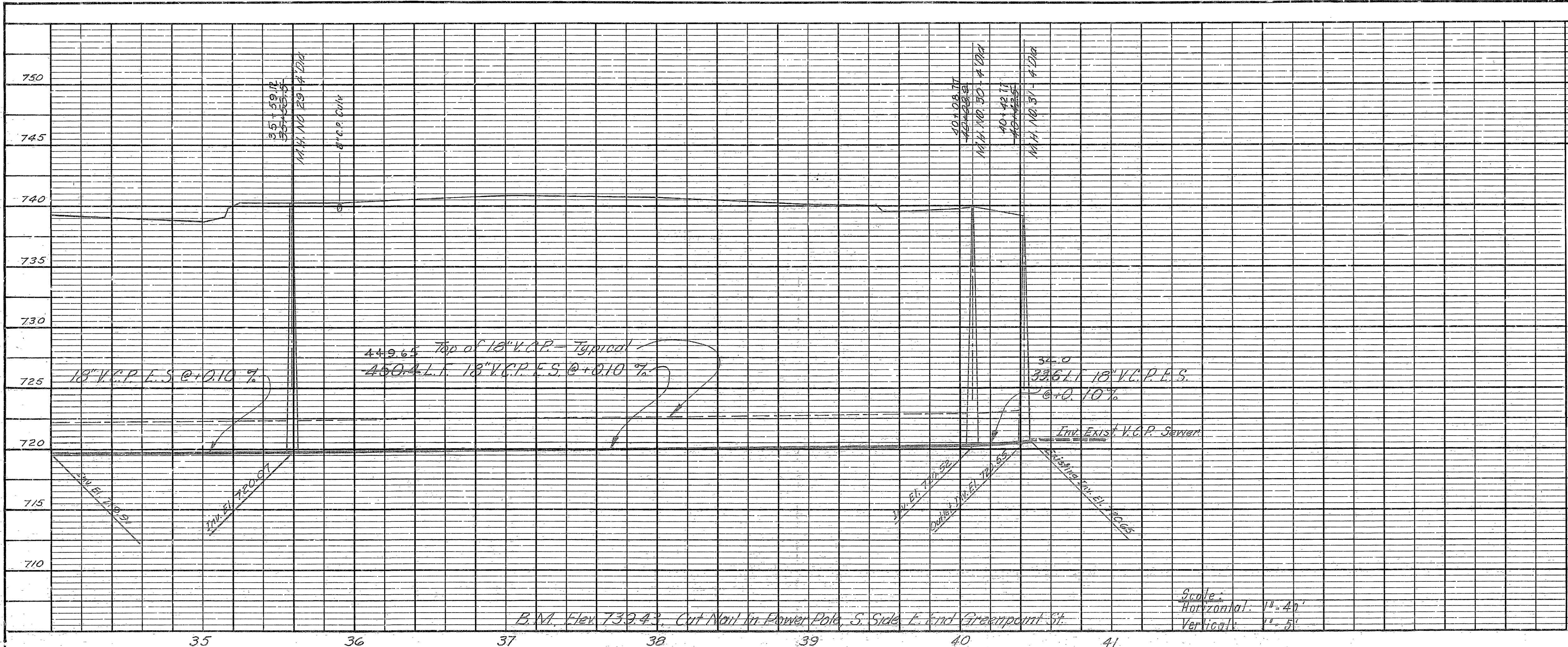
REVISIONS		CITY OF RIVERSIDE, CALIFORNIA DEPARTMENT OF PUBLIC WORKS
MARK	DATE DESCRIPTION	
2	1-28-66 174'-10" V.C.P. LINE 46" DROP - M.H. # 31	ARLANZA TRUNK SEWER INTERCEPTORS  LINE B- PLAN-PROFILE
DESIGNED BY JAC. CAR - RMB		
DRAWN BY H.I.G. - DEL		
CHECKED BY D.M.T. & CAR		APPROVED BY <b>JAMES F. MARTINEK</b> <small>DIRECTOR OF PUBLIC WORKS</small> PROJECT NO. <b>S-613</b> SHEET <b>13</b> OF <b>14</b> DATE <b>MARCH 3, 1965</b>

AS BUILT  
W. S. H.



PLAN	SURVEYED	DATE
NOTE BOOK	PLOTTED	BY
	ALIGNMENT CHECKED	

PROFILE	SURVEYED	DATE
NOTE BOOK	PLOTTED	BY
	GRADES CHECKED	



6'-6" DIA. BRICK M.H.  
SCALE: 1" = 2'-0"

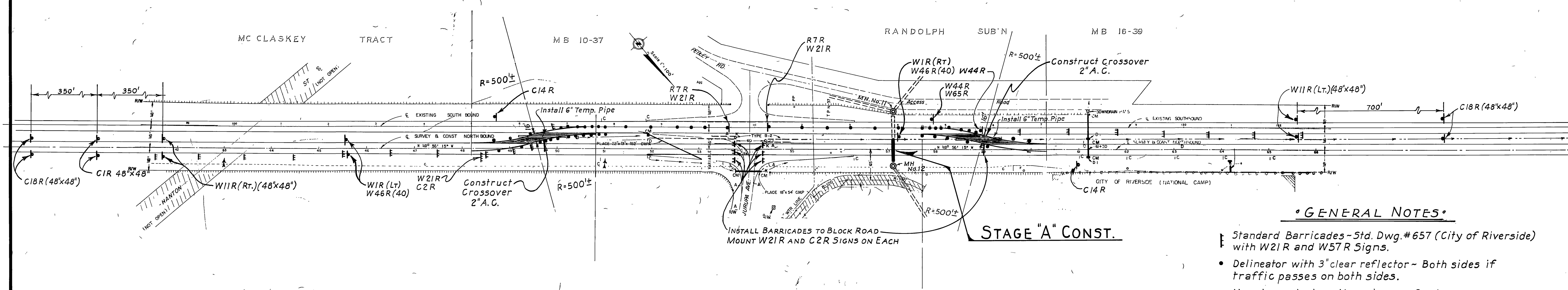
PCE 5358 *J. P. Carullo* DATE APRIL 1964

**JOHN CAROLLO ENGINEERS**  
PHOENIX, ARIZONA

REVISIONS		CITY OF RIVERSIDE, CALIFORNIA DEPARTMENT OF PUBLIC WORKS
MARK	DATE DESCRIPTION	
2	1-28-66	174'-10" V.C.P. LINE & 6" DROP - M.H. # 31
DESIGNED BY JAC. CAR. RMB		APPROVED BY JAMES F. MARTINEK DIRECTOR OF PUBLIC WORKS
DRAWN BY H.B. DEL		
CHECKED BY DMT & GAR		PROJ. NO. S-613
SUBMITTED BY		TRAFFIC DIV.
RECOMMENDED BY		DATE MARCH 3, 1965
ASSISTANT CIVIL ENGINEER		SHEET 13 OF 14

AS BUILT  
W.S.H.

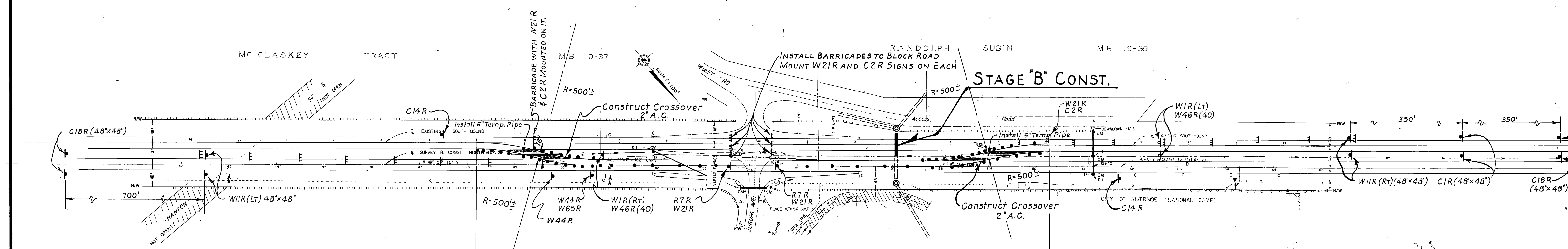




VAN BUREN BLVD

° GENERAL NOTES °

- Standard Barricades - Std. Dwg. # 657 (City of Riverside) with W21R and W57R Signs.
- Delineator with 3" clear reflector - Both sides if traffic passes on both sides.
- Numbers designating signs refer to PLANNING MANUAL - PART B, TRAFFIC, Published by the State of California, Department of Public Works, Division of Highways. All such signs shall conform in design, materials and placement to instructions contained in Said Manual.



VAN BUREN BLVD

THIS SHEET NOT USED

RCE 5358 *John A. Carallo* DATE 1964

**JOHN CAROLLO ENGINEERS**  
PHOENIX, ARIZONA

REVISIONS		CITY OF RIVERSIDE, CALIFORNIA DEPARTMENT OF PUBLIC WORKS
MARK	DATE DESCRIPTION	
DESIGNED BY RIVERSIDE	SUBMITTED BY	APPROVED BY <i>JAMES F. MARTINEK</i> DIRECTOR OF PUBLIC WORKS
DRAWN BY S.C.C.	PARK DEPT. TRAFFIC DIV.	PROJ. NO.
CHECKED BY D.M.T. & C.A.R.	RECOMMENDED BY	<b>S-613</b>
DATE <u>MARCH 3, 1965</u>		SHEET <u>14</u> OF <u>14</u>