

**CONVENTIONAL SIGNS**

SCALE LINE	—————	TIMBER	.....
COUNTY LINE	=====	BRUSH	.....
TOWNSHIP OR RANGE LINE	=====	ORCHARD	.....
SECTION LINE	=====	ROCK LEDGE	.....
QUARTER LINE	=====	SAND	.....
SIXTEENTH LINE	=====	EDGE OF CUT	.....
RIGHT-OF-WAY LINE	=====	TOE OF EMBANKMENT	.....
PRESENT ROAD PAV. LINE	=====	CATCH BASIN	.....
LIMITED ACCESS	.....	MANHOLE	.....
PROPERTY LINE (Except Land Lines)	.....	DROP INLET	.....
VACATED PLATTED PROPERTY	.....	FIRE HYDRANT	.....
CORPORATE OR CITY LIMITS	.....	ARC LAMP	.....
TRUNK HIGHWAY CENTER LINE	.....	OTHER LAMPS (State Kind)	.....
RETAINING WALL	.....	RAILROAD CROSSING SIGN	.....
STEAM RAILROAD	.....	RAILROAD CROSSING BELL	.....
ELECTRIC RAILROAD	.....	ELECTRIC WARNING SIGN	.....
RAILROAD RIGHT-OF-WAY LINE	.....	CROSSING GATE	.....
CREEK	.....	CATTLE GUARD	.....
RAPIDS OR WATERFALL	.....	OVERHEAD (Highway Over)	.....
DRY RUN	.....	UNDERPASS (Highway Under)	.....
DRAINAGE DITCH	.....	ABUTMENT, WALL & PIER	.....
HIGH TENSION LINE	.....	BRIDGE	.....
POWER POLE LINE	.....	CULVERT	.....
TELEPHONE OR TELEGRAPH LINE	.....	GRAVEL PIT	.....
GUARD RAIL	.....	SAND PIT	.....
WIRE FENCE	.....	CLAY PIT	.....
RAILROAD SNOW FENCE	.....	ROCK QUARRY	.....
BOARD OR HIGHWAY SNOW FENCE	.....	SPRINGS	.....
STONE WALL OR FENCE	.....	MARSH	.....
GAS MAIN	.....		
WATER PIPE	.....		
SEWER PIPE	.....		
DRAIN TILE	.....		
CLAY PIT	.....		
ROCK QUARRY	.....		
SPRINGS	.....		
MARSH	.....		

**OFFICE OF COUNTY ENGINEER  
RAMSEY COUNTY**

CONSTRUCTION PLAN FOR GRADING AND PAVING  
**LARPEN TEUR AVENUE**  
FROM FERNWOOD ST. TO DALE ST.  
MINN. PROJ. U 083-1 (1) STATE PROJ. 62-606-01 (S.A.R. 50)  
URBAN PROJECT: FROM A POINT 12.0' NORTH OF  $\frac{1}{4}$  1340.8' WEST OF THE N.E. COR. OF SEC. 22, T. 29 N., R. 23 W. TO A POINT 4.5' SOUTH & 40.0' EAST OF THE N.W. COR. OF SEC. 24, T. 29 N., R. 23 W.

GROSS LENGTH 6650.23 FEET 1.260 MILES  
BRIDGES-LENGTH 0.00 FEET MILES  
EXCEPTIONS-LENGTH 0.00 FEET MILES  
NET LENGTH 6650.23 FEET 1.260 MILES

SCALES: PLAN, 1 inch = 100 Feet  
PROFILE, Horiz. 1 inch = 100 Feet. Vert. 1 inch = 10 Feet.  
WORKING PLANS - Horiz. 1 inch = 100 Feet. Vert. 1 inch = 10 Feet.  
LAYOUT, 1 inch = 2640 Feet

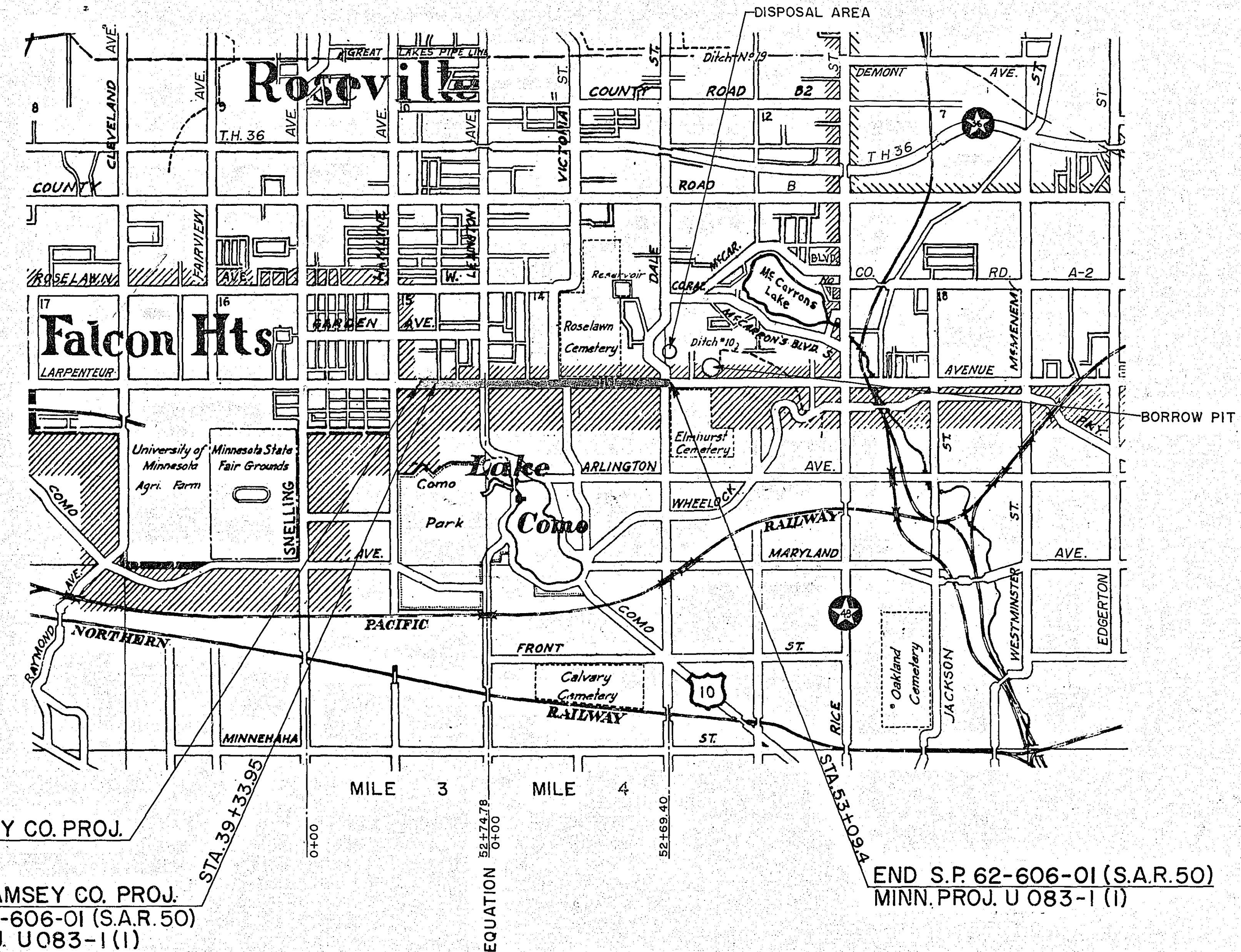
**INDEX**

SHEET NO.	DESCRIPTION
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3	TYPICAL SECTIONS
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5-6-7	MISCELLANEOUS DETAILS
8	PLAN SHEET MILE 3
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13	INSTALL TRAFFIC SIGNAL AT VICTORIA ST.(SO)
14-18	CROSS-SECTIONS (RAMSEY CO. PROJ.)
19-33	CROSS-SECTIONS (S.P. 62-606-01 - S.A.R. 50)
34	VICTORIA ST. GRADING PLAN

**RAMSEY COUNTY PROJECT**  
FROM 188' EAST OF HAMLINE AVE. TO FERNWOOD ST.  
STA. 28+50 STA. 39+33.95

GROSS LENGTH 1083.95 FEET 0.205 MILES  
EXCEPTIONS-LENGTH 0.00 MILES  
NET LENGTH 1083.95 FEET 0.205 MILES

DESIGN SPEED 50 M.P.H.  
(POSTED SPEED 40 M.P.H.)



BEG. OF RAMSEY CO. PROJ.  
STA. 28 +50

END OF RAMSEY CO. PROJ.  
BEG. S.P. 62-606-01 (S.A.R. 50)  
MINN. PROJ. U 083-1 (1)

END S.P. 62-606-01 (S.A.R. 50)  
MINN. PROJ. U 083-1 (1)

**PIT DATA**

COUNTY	PIT NO.	Located in SEC. 13, T. 29 N., R. 23 W. Dead Haul .0.25 Mi.
	PIT NO.	Located in Dead Haul
	PIT NO.	Located in Dead Haul
	PIT NO.	Located in Dead Haul

**SPECIFICATIONS**

THE "SPECIFICATIONS FOR HIGHWAY CONSTRUCTION" DATED JULY 1, 1947 AND SUBMITTED FOR APPROVAL BY THE DIVISION ENGINEER OF THE BUREAU OF PUBLIC ROADS ON OCTOBER 15, 1947, AS MODIFIED BY "SUPPLEMENT 1" THERE TO DATED APRIL 15, 1953 AND SUBMITTED FOR APPROVAL BY THE DIVISION ENGINEER OF THE BUREAU OF PUBLIC ROADS ON MARCH 25, 1953, SHALL GOVERN.

DEPARTMENT OF COMMERCE  
BUREAU OF PUBLIC ROADS

APPROVED: \_\_\_\_\_  
DISTRICT ENGINEER DATE \_\_\_\_\_

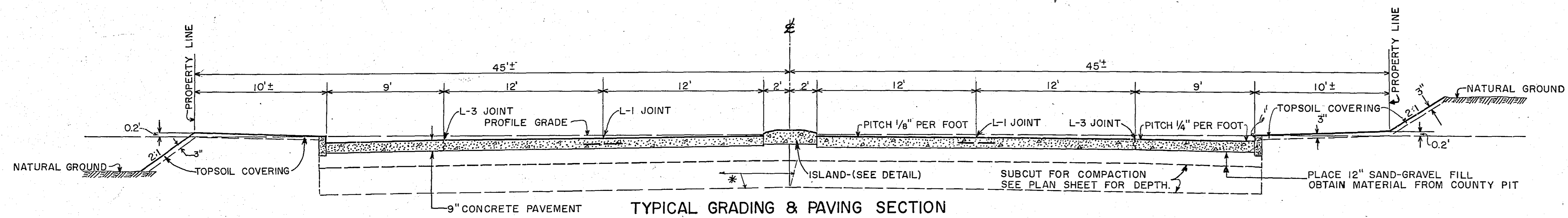
I HEREBY CERTIFY THAT THIS PLAN WAS PREPARED BY ME OR UNDER MY DIRECT SUPERVISION AND THAT I AM A DULY REGISTERED PROFESSIONAL ENGINEER UNDER THE LAWS OF THE STATE OF MINNESOTA.  
COUNTY ENGINEER REG. NO. 218 DATE 4/15/57

RECOMMENDED FOR APPROVAL \_\_\_\_\_ DATE 4/15/57  
COUNTY ENGINEER  
APPROVED: \_\_\_\_\_ DATE April 19, 1957  
CHAIRMAN OF RAMSEY COUNTY BOARD

MINNESOTA STATE HIGHWAY DEPARTMENT  
RECOMMENDED FOR APPROVAL \_\_\_\_\_ DATE 4/25/57  
DISTRICT ENGINEER  
APPROVED: \_\_\_\_\_ DATE 4-25-57  
ENGINEER OF COUNTY DIVISION

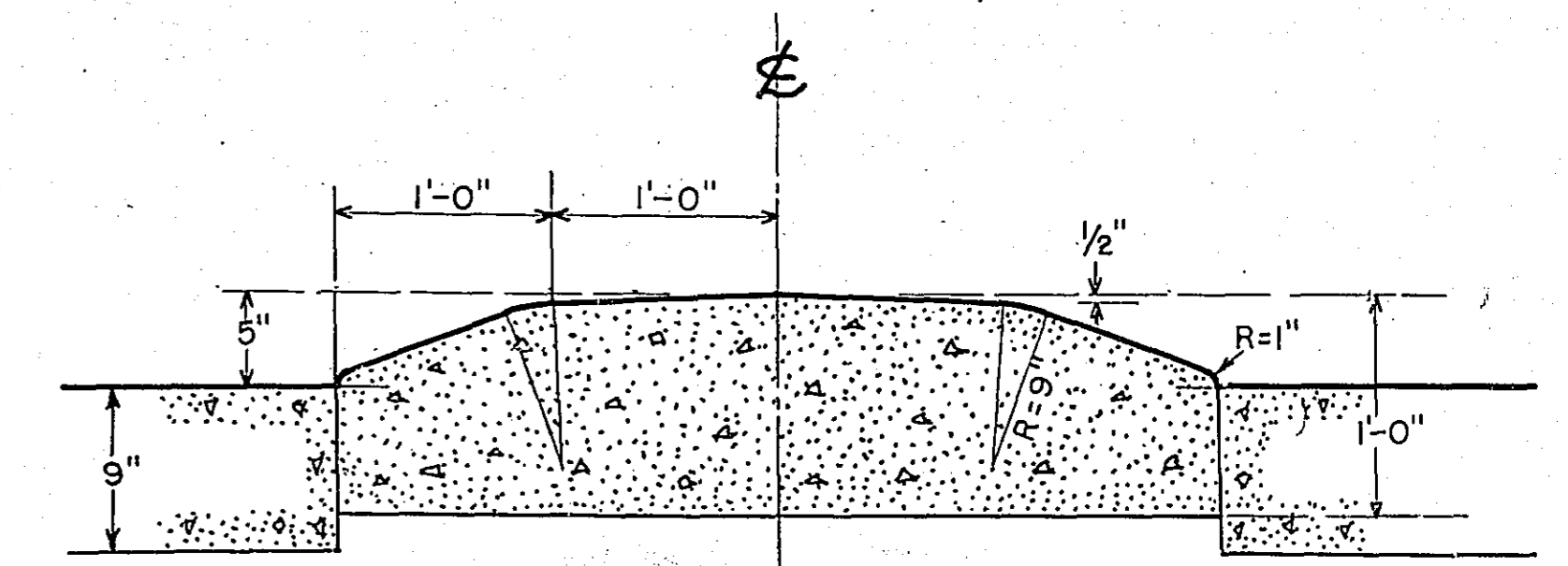
6530



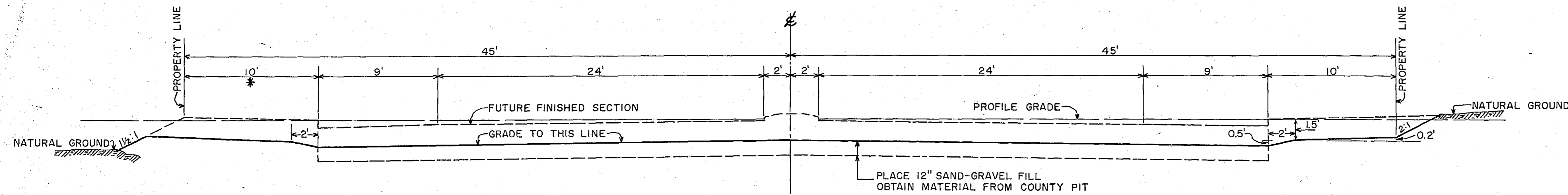


\* IN MILE 3 SUBCUT FROM  $\epsilon$  TO LEFT IN LOCATIONS AS INDICATED ON PLAN SHEET

NOTE: SLOPES AND BACKSLOPES MUST CONFORM TO RIGHT-OF-WAY WHERE THERE ARE NO EASEMENTS. SLOPES AND BACKSLOPES ARE TO BE 5:1 IN ROSELAWN CEMETERY.



DETAIL OF ISLAND  
SCALE: 1" = 1'-0"



NOTE:  
SEE CROSS-SECTIONS FOR SLOPES.  
\* = 15' THROUGH COUNTY PROPERTY

TYPICAL SECTION  
MILE 3  
STA. 28+85 TO STA. 39+14

**NOTES:**

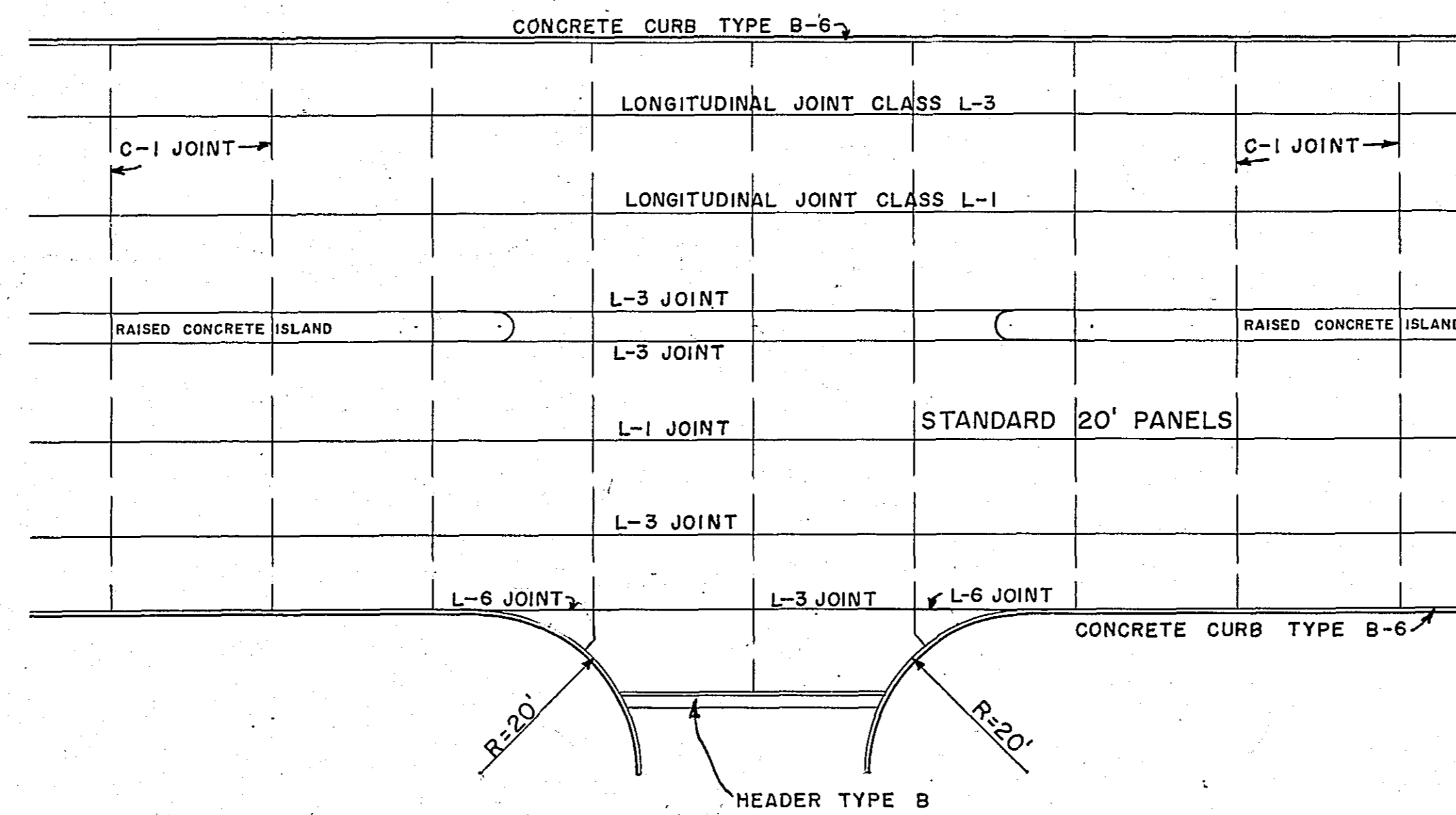
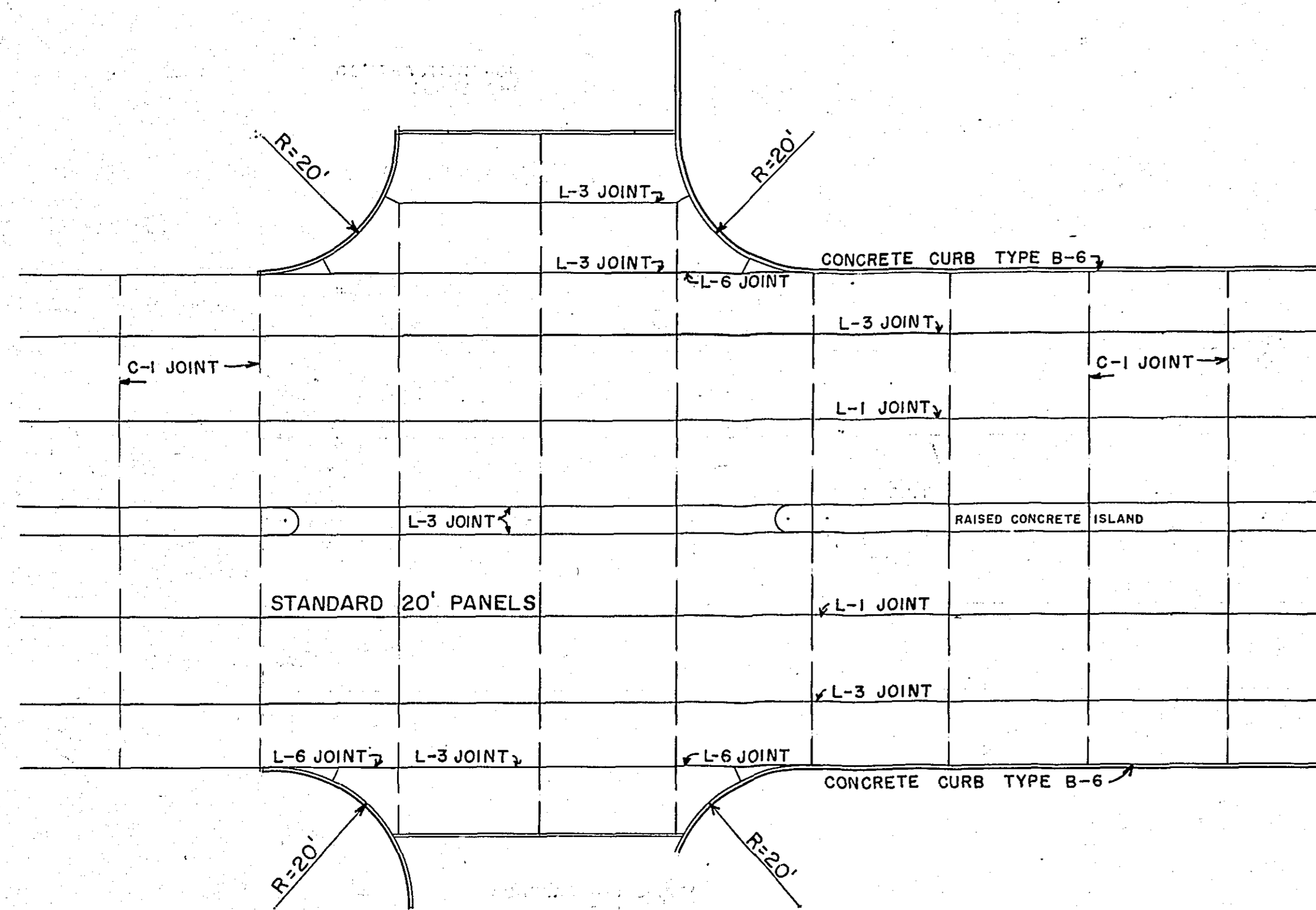
USE CLASS C-1 CONTRACTION JOINTS ON THIS PROJECT EXCEPT AT THE FOLLOWING LOCATIONS WHERE CLASS C-4 CONTRACTION JOINTS SHALL BE USED:  
STA. 39+34 TO STA. 41+74  
STA. 50+69.4 TO STA. 53+09.4

ALL TRANSVERSE CONTRACTION JOINTS IN THE WIDENED PORTION (9' LANE) SHALL BE FORMED WITH REMOVABLE INSERTS.

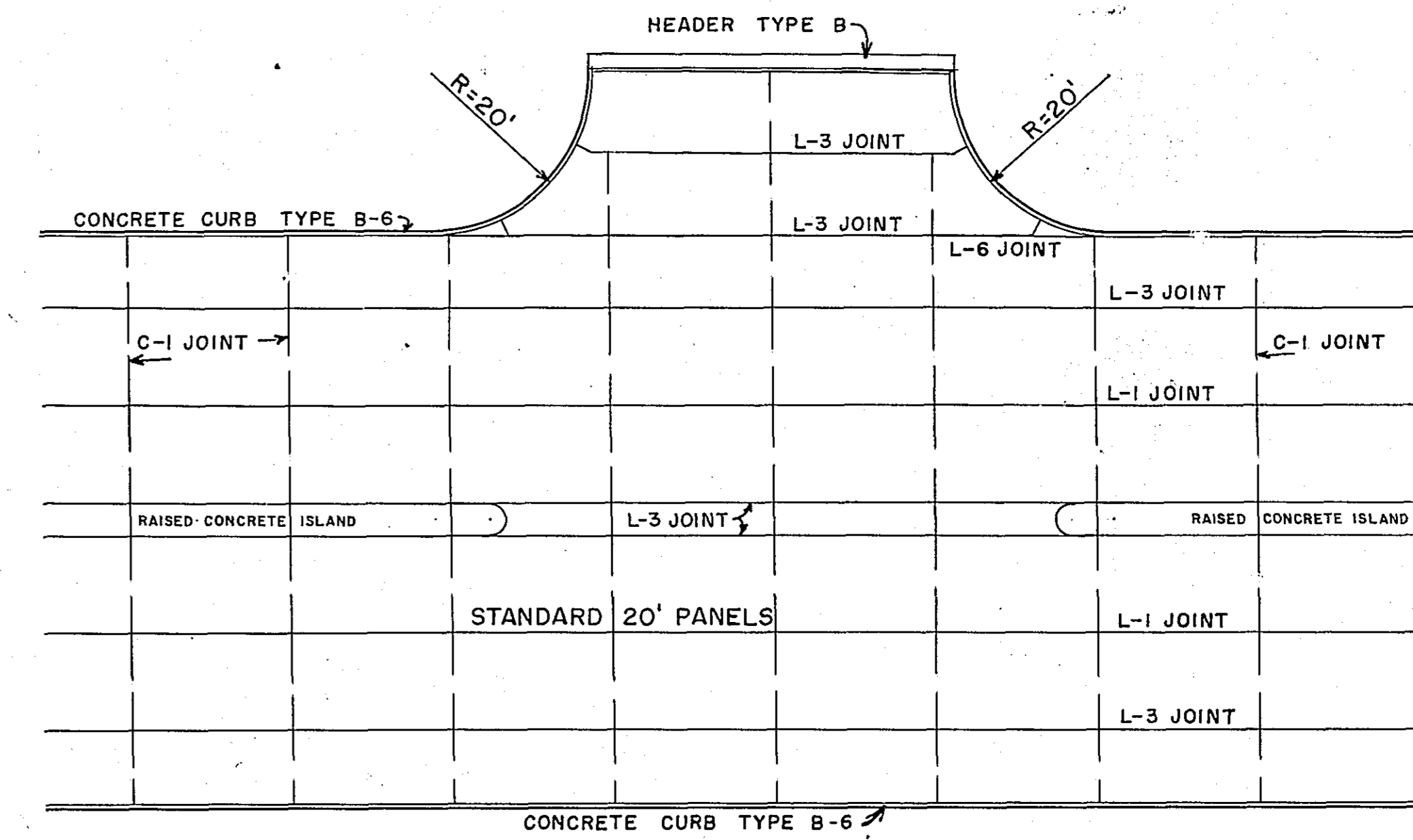
PLACE 1/2"  $\phi$  X 10'-0" BARS 2'-0" C-C IN PAVEMENT OVER TRENCH EXCAVATIONS.

6530

LEXINGTON AVENUE



VICTORIA STREET  
NORTH SIDE

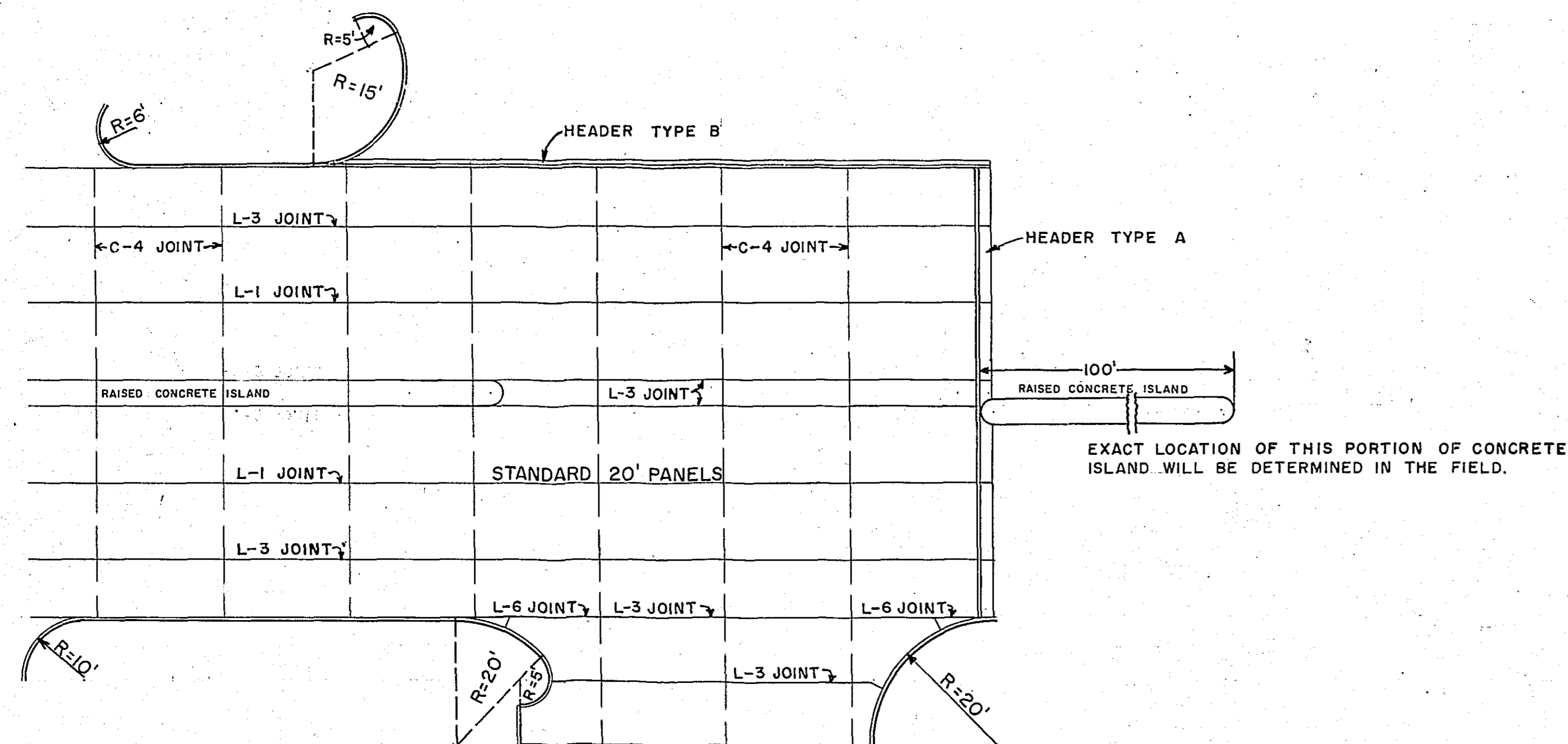


SOUTH  
 VICTORIA STREET 40'  
 GROTTO STREET 30'  
 OXFORD STREET 30'  
 FERNWOOD STREET 30'  
 DUNLAP STREET 30'  
 MILTON STREET 30'

NORTH  
 CHATSWORTH STREET 30'  
 CEMETERY ENTRANCE 30'  
 FERNWOOD STREET 30'

20' RADIUS ON ALL STREETS UNLESS OTHERWISE NOTED

DALE STREET



PANEL LAYOUT  
 STREET INTERSECTIONS  
 SCALE 1" = 20'

6530

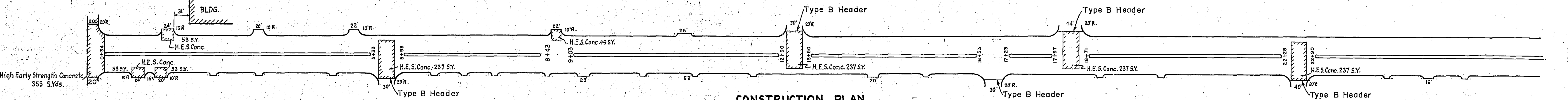
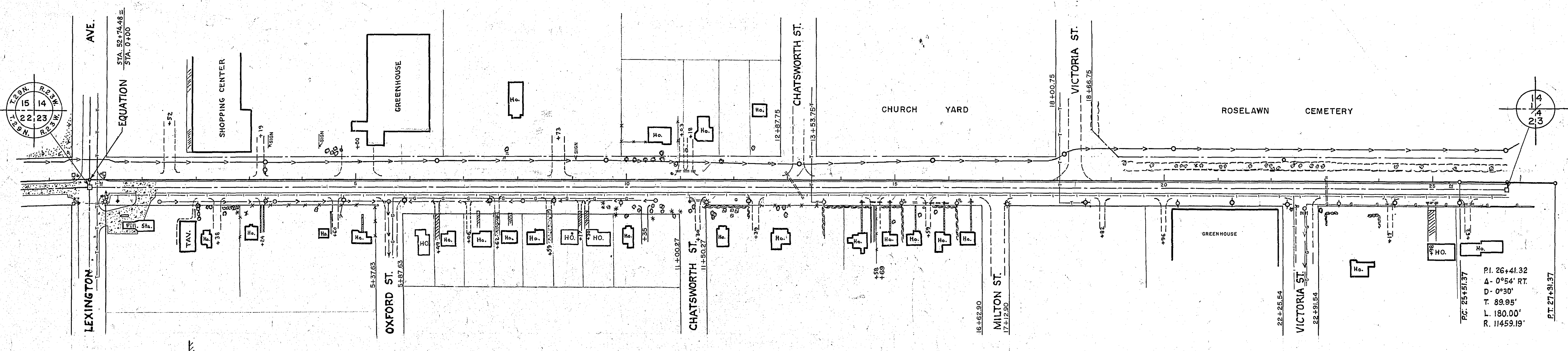


Remove Pavement  
Sta. 0+00 to Sta. 26+40

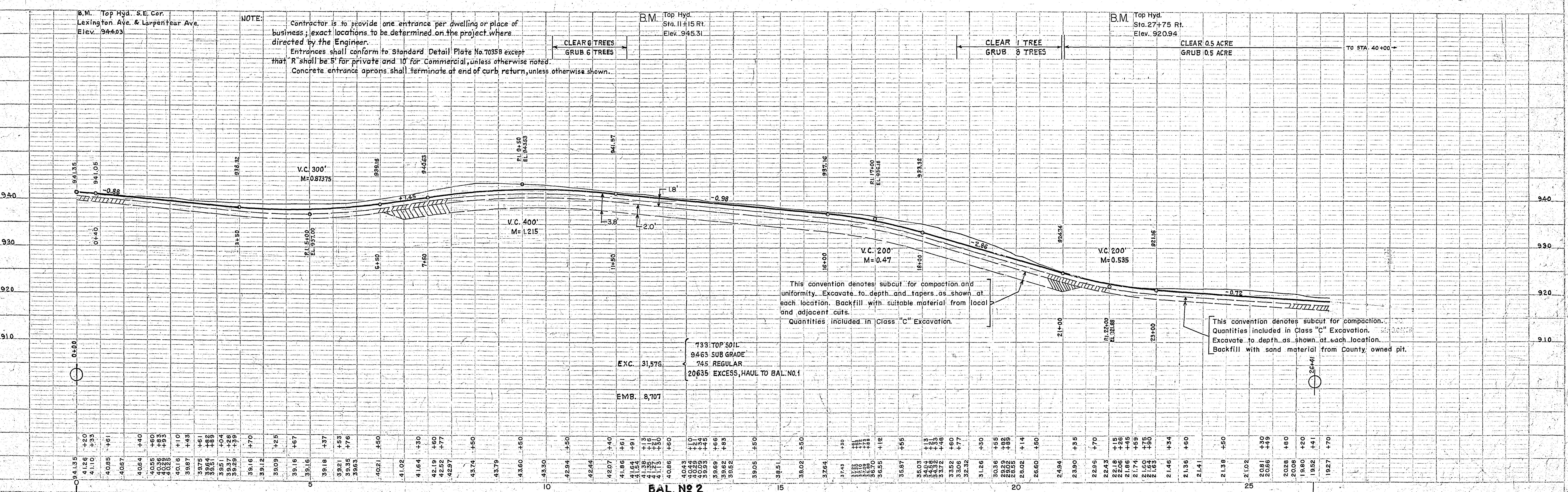
NOTE: The necessary re-arrangement of water mains, hydrants, water valves, telephone cables, lamp standards, gas mains and power poles is to be performed by others.

Sta. 22+18 Rt. 35'  
Inp. Catch Basin  
Remove 1 Structure

Sta. 23+00 ±  
Inp. 4' x 2' x 41' W. 42 Culv.  
Remove Structure 16 Cu. Yds.



CONSTRUCTION PLAN



BAL NO 2  
MILE 4 - W 1/2 -

6530

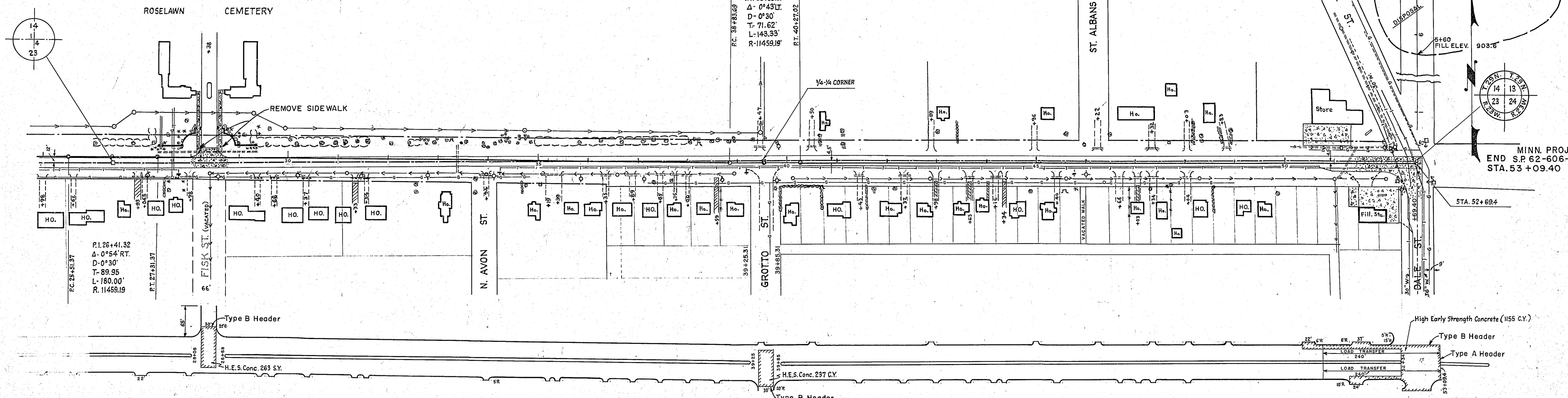
Sta. 28+20 Lt. 9'  
Inplace Catch Basin  
Remove 1 Structure

Sta. 28+56 Lt. 8'  
Inplace Catch Basin  
Remove 1 Structure

Remove Pavement  
Sta. 26+40 to Sta. 52+79.4

NOTE: The necessary re-arrangement of water mains, hydrants, water valves, telephone cables, lamp standards, gas mains and power poles is to be performed by others.

Sta. 52+20 Lt. 34'  
Inplace Catch Basin  
Remove 1 Structure



CONSTRUCTION PLAN

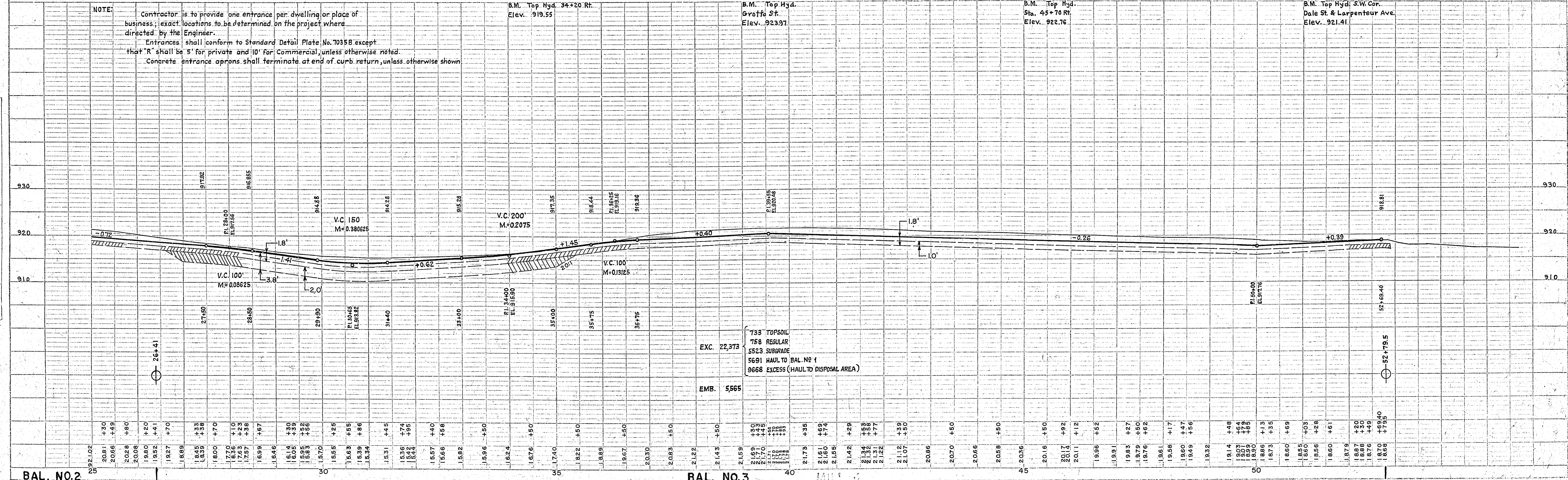
NOTE: Contractor is to provide one entrance per dwelling or place of business; exact locations to be determined on the project where directed by the Engineer.  
Entrances shall conform to Standard Detail Plate No. 7035B except that 'R' shall be 'S' for private and '10' for Commercial, unless otherwise noted.  
Concrete entrance aprons shall terminate at end of curb return, unless otherwise shown.

B.M. Top Hyd. 34+20 Rt. Elev. 919.55

B.M. Top Hyd. Grotto St. Elev. 923.97

B.M. Top Hyd. Sta. 45+76 Rt. Elev. 922.76

B.M. Top Hyd. S.W. Cor. Dale St. & Larpenteur Ave. Elev. 921.41



BAL. NO. 2 BAL. NO. 3

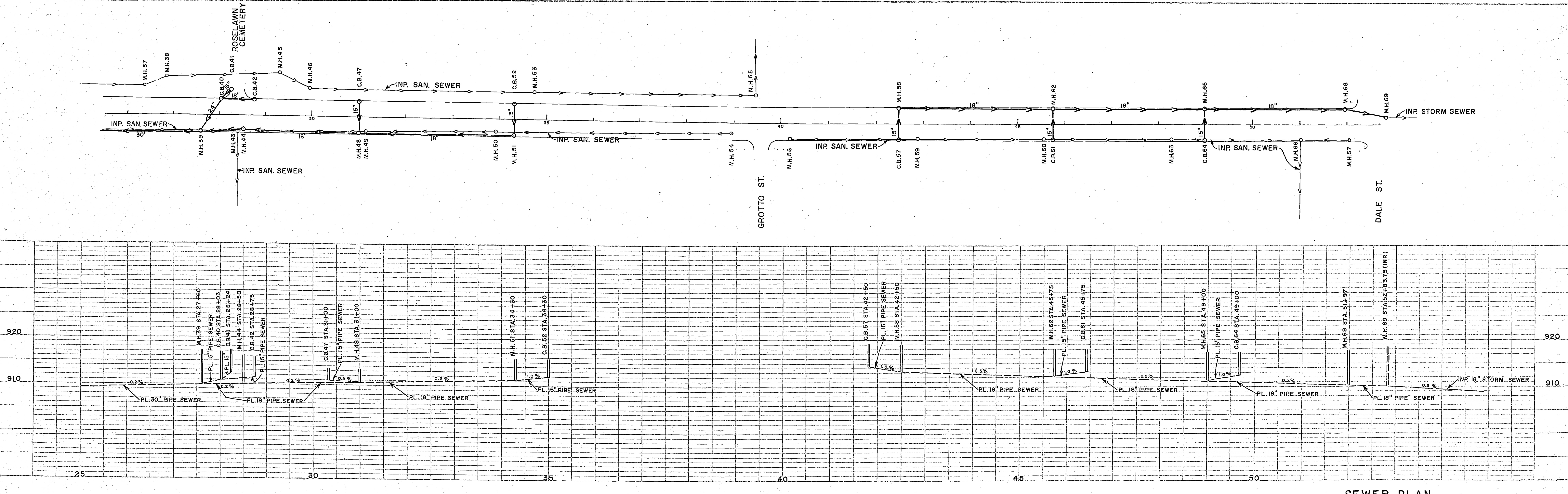
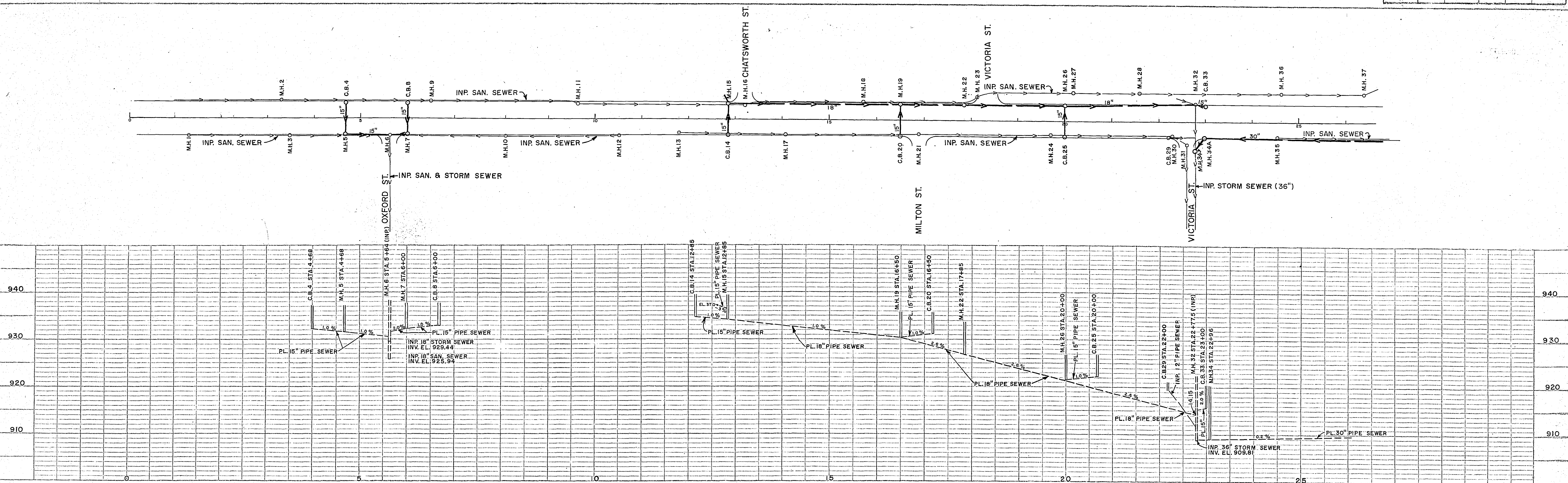
MILE 4 - E 1/2 -

PLAN SURVEYED, PLOTTED, CHECKED, NOTE BOOK, S. V.E. ADDED, R.T. OF ANY CHECKED, NO.

PROFILE SURVEYED, PLOTTED, CHECKED, NOTE BOOK, S. V.E. ADDED, S. F. STRUCTURE NOT AT HIS CHARGE, NO.

DATE: \_\_\_\_\_  
 BY: \_\_\_\_\_  
 CHECKED: \_\_\_\_\_  
 IN CHARGE: \_\_\_\_\_  
 NO. \_\_\_\_\_

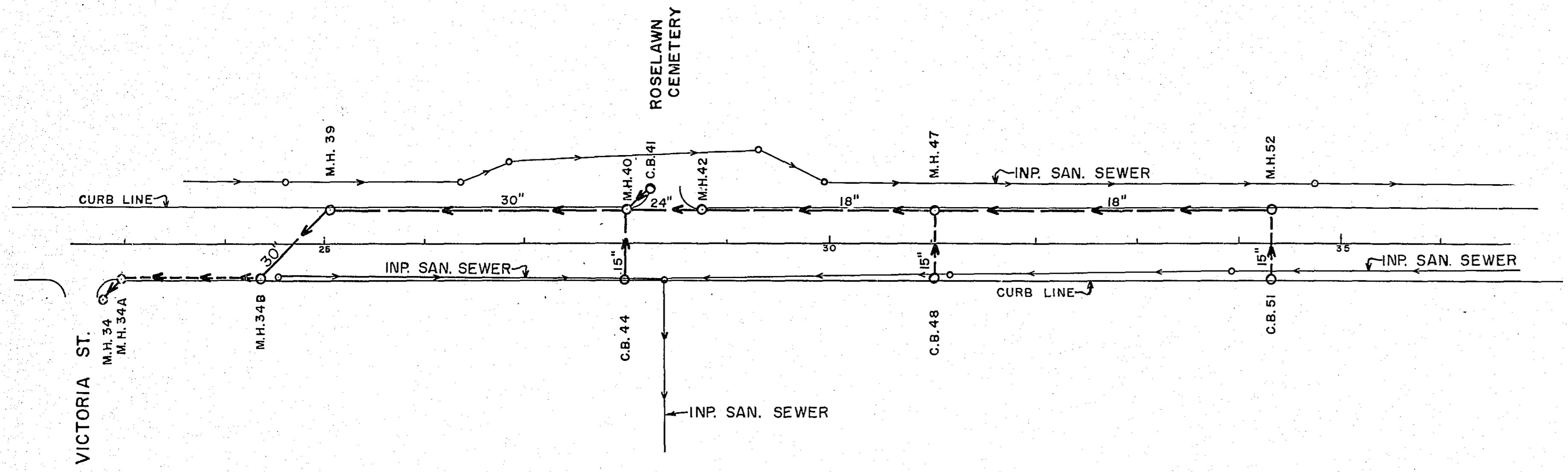
DATE: \_\_\_\_\_  
 BY: \_\_\_\_\_  
 CHECKED: \_\_\_\_\_  
 IN CHARGE: \_\_\_\_\_  
 NO. \_\_\_\_\_



SEWER PLAN

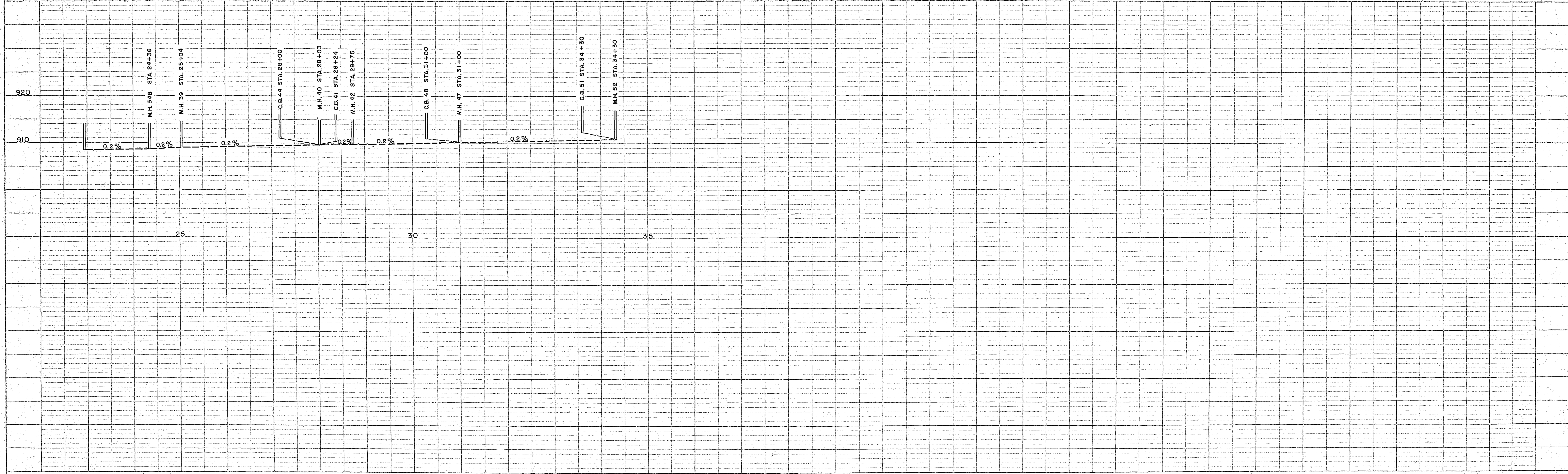


DATE: \_\_\_\_\_  
 BY: \_\_\_\_\_  
 SURVEYED: \_\_\_\_\_  
 PLOTTED: \_\_\_\_\_  
 NOTE BOOK ALIGNMENT CHECKED: \_\_\_\_\_  
 RT. OF WAY CHECKED: \_\_\_\_\_  
 NO. \_\_\_\_\_



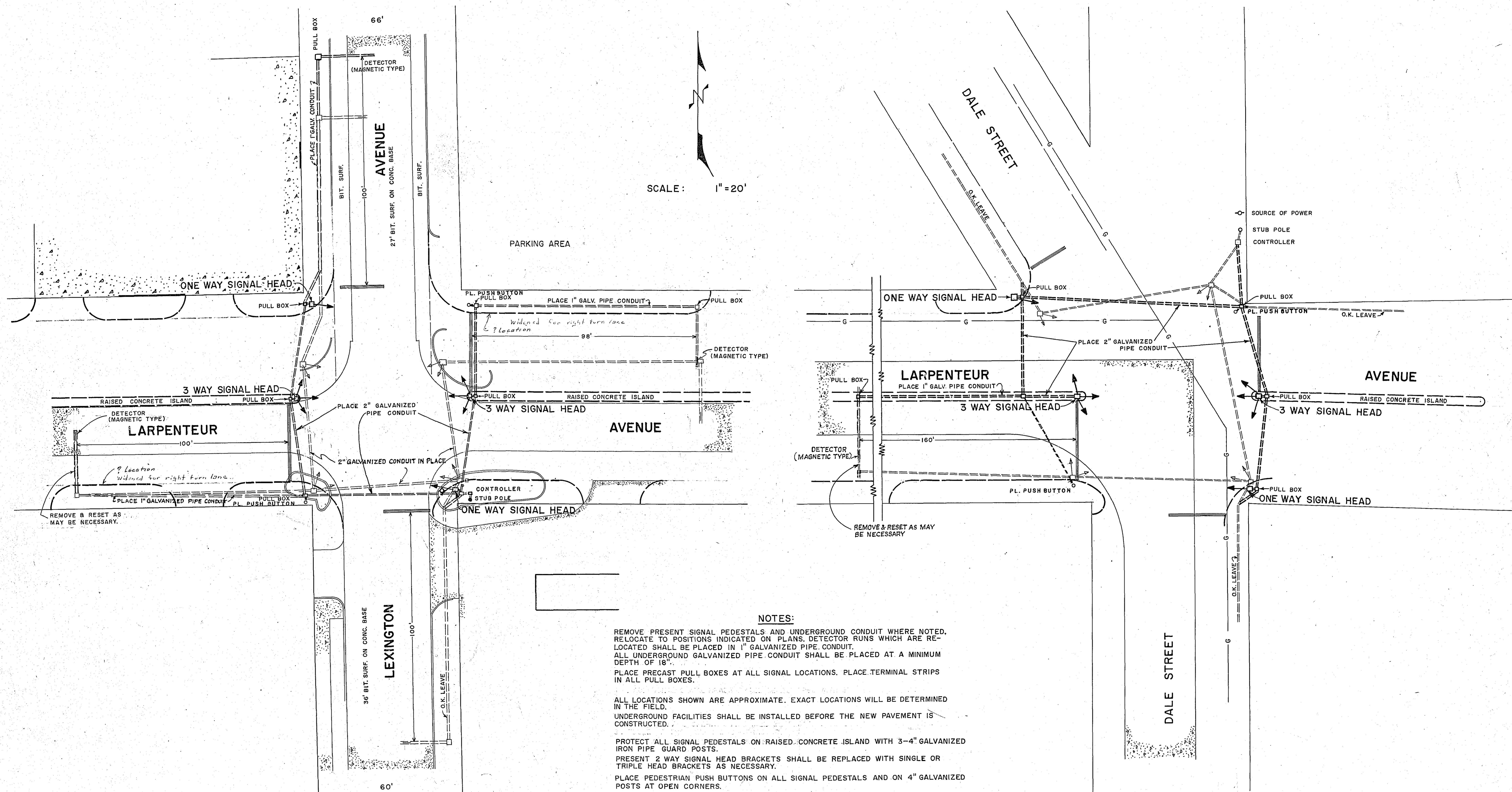
STATION	LOCATION	STRUCTURE							F.&I. REINFORCED CONCRETE PIPE SEWER						F.&I. APRON	TRENCH EXCAV.			
		NO.	TYPE	DESIGN	CONST. HEIGHT LIN. FT.	F & I. CASTING ASSEMBLY	ELEVATION		ADJUST. CASTING ASSEMBLY	RECONSTRUCT M.H. OR C.B. LIN. FT.	LINEAR FEET					TO STRUCTURE NO.	0'-6'	0'-10'	
							GRATE OR RING	OUTLET			12"	15"	18"	24"					30"
24+36	RT.33.9	34E	M.H.	A	10.5		19.48	08.83						140		34A			
25+04	LT.33.9	39	M.H.	A	9.8		19.01	09.02						96		34B		96	
28+03	LT.33.9	40	M.H.	A	7.0		16.74	09.62						299		39		299	
28+24	LT.54	41	C.B.	C	4.7			12.25								40		29	
28+00	RT.33.9	44	C.B.	C	4.7		16.86	12.06						68		40		68	
28+75	LT.33.9	42	M.H.	C	5.9		15.80	09.77					72		40		72		
31+00	LT.33.9	47	M.H.	C	3.0			10.22								42		225	
31+00	RT.33.9	48	C.B.	C	2.7			10.61						68		47		68	
34+30	LT.33.9	52	M.H.	C	4.7			10.88					330		47		330		
34+30	RT.33.9	51	C.B.	C	4.3			11.27						68		52		68	

DATE: \_\_\_\_\_  
 BY: \_\_\_\_\_  
 SURVEYED: \_\_\_\_\_  
 PLOTTED: \_\_\_\_\_  
 NOTE BOOK GRADES CHECKED: \_\_\_\_\_  
 STRUCTURE NOTATION CHECKED: \_\_\_\_\_  
 NO. \_\_\_\_\_



NO.	DATE	BY	REVISION	TOTAL
1				

# RELOCATION OF FULL TRAFFIC ACTUATED TRAFFIC SIGNAL SYSTEM



SCALE: 1" = 20'

**NOTES:**

- REMOVE PRESENT SIGNAL PEDESTALS AND UNDERGROUND CONDUIT WHERE NOTED. RELOCATE TO POSITIONS INDICATED ON PLANS. DETECTOR RUNS WHICH ARE RELOCATED SHALL BE PLACED IN 1" GALVANIZED PIPE CONDUIT.
- ALL UNDERGROUND GALVANIZED PIPE CONDUIT SHALL BE PLACED AT A MINIMUM DEPTH OF 18".
- PLACE PRECAST PULL BOXES AT ALL SIGNAL LOCATIONS. PLACE TERMINAL STRIPS IN ALL PULL BOXES.
- ALL LOCATIONS SHOWN ARE APPROXIMATE. EXACT LOCATIONS WILL BE DETERMINED IN THE FIELD.
- UNDERGROUND FACILITIES SHALL BE INSTALLED BEFORE THE NEW PAVEMENT IS CONSTRUCTED.
- PROTECT ALL SIGNAL PEDESTALS ON RAISED CONCRETE ISLAND WITH 3-4" GALVANIZED IRON PIPE GUARD POSTS.
- PRESENT 2 WAY SIGNAL HEAD BRACKETS SHALL BE REPLACED WITH SINGLE OR TRIPLE HEAD BRACKETS AS NECESSARY.
- PLACE PEDESTRIAN PUSH BUTTONS ON ALL SIGNAL PEDESTALS AND ON 4" GALVANIZED POSTS AT OPEN CORNERS.

# FULL TRAFFIC ACTUATED TRAFFIC SIGNAL SYSTEM AT INTERSECTION OF LARPEUR AVE & VICTORIA SOUTH

SCALE: 1" = 20'

