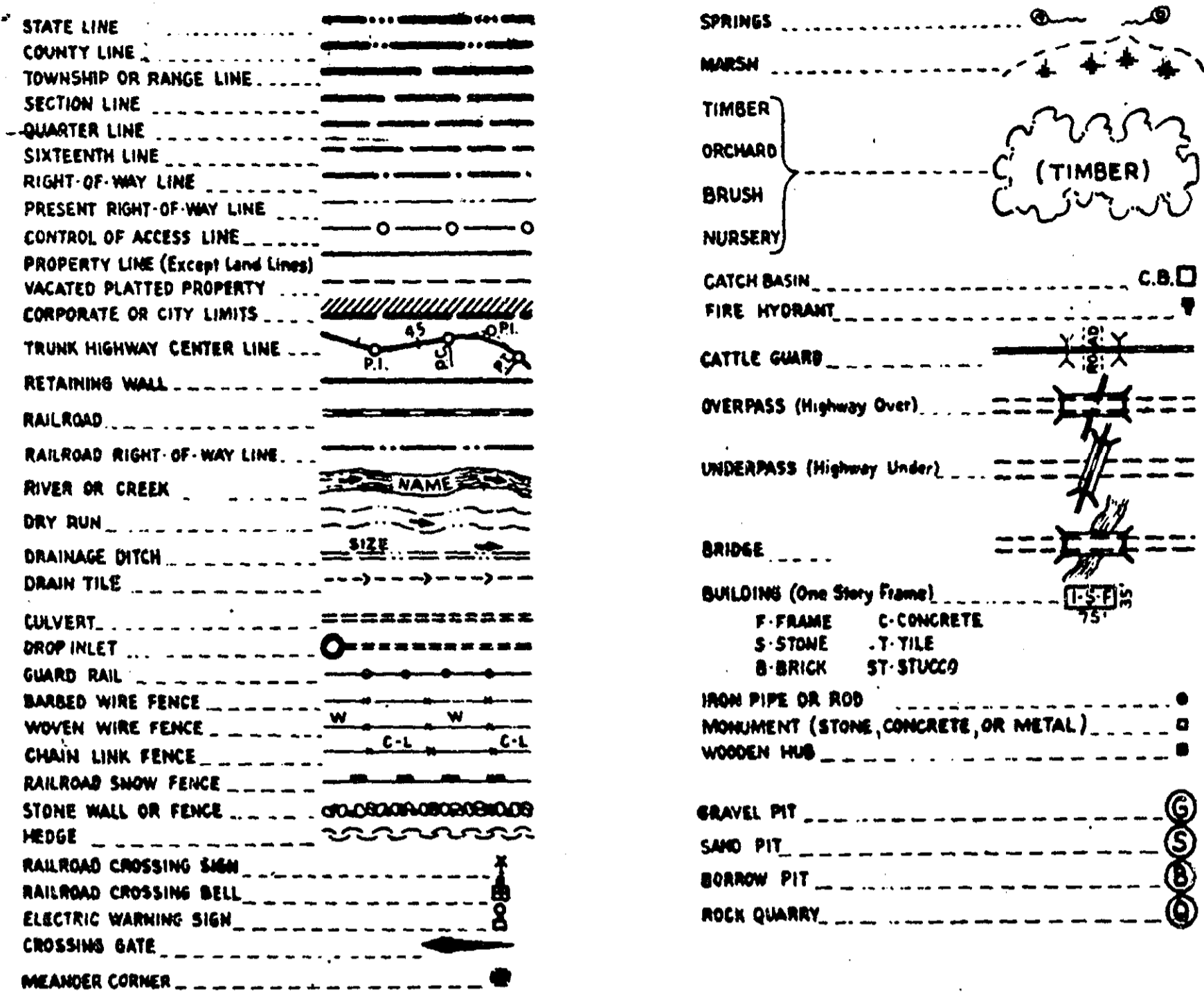
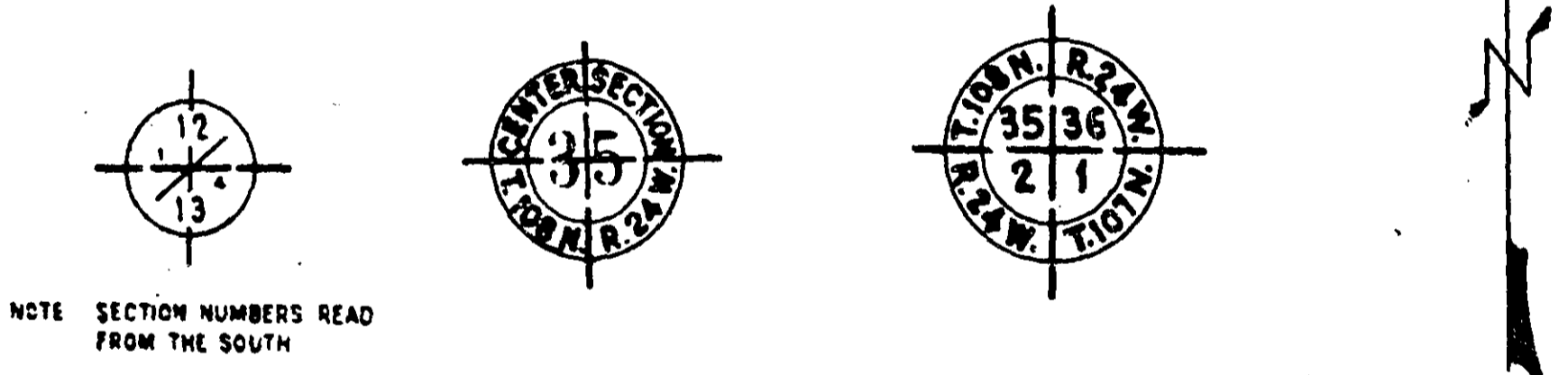
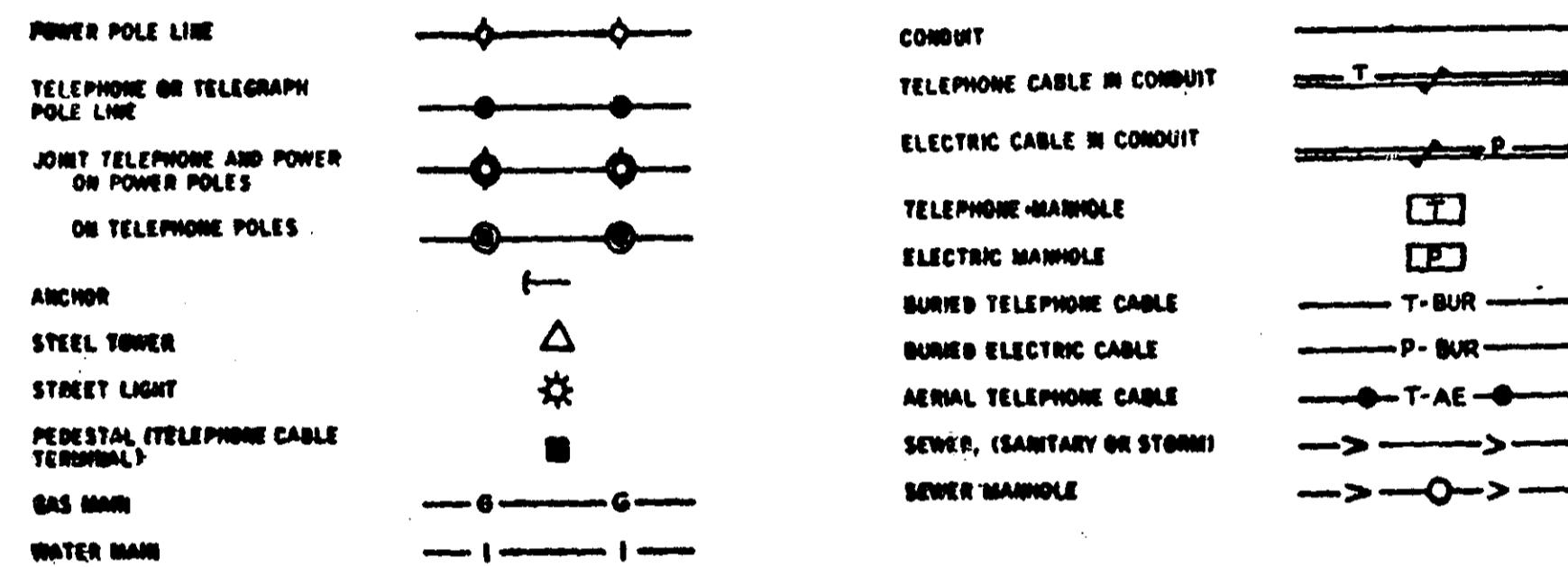


PLANS SYMBOLS



UTILITIES SYMBOLS



DESIGN DESIGNATION

(WHITE BEAR AVE. TO VAN DYKE ST.)
 A.D.T. 1967 = 9,600
 A.D.T. 1985 = 20,000
 (VAN DYKE ST. TO END OF PROJECT)
 A.D.T. 1967 = 8,200
 A.D.T. 1985 = 15,000
 DHV =
 (DIRECTIONAL DISTRIBUTION) = 50-50
 (HEAVY COMMERCIAL) 1985
 WHITE BEAR AVE. TO VAN DYKE ST. = 300-600
 VAN DYKE ST. TO END OF PROJECT = 150-300

SCALES
 PLAN, 1 inch = 50 Feet
 PROFILE, Horiz. 1 inch = 50 Feet Vert. 1 inch = 5 Feet
 CROSS-SECTIONS, 1 inch = 10 Feet
 LAYOUT, 1 inch = 5280 Feet

GROSS LENGTH 3665 FEET 0.69 MILES
 BRIDGE LENGTH 0 FEET 0 MILES
 EXCEPTIONS LENGTH 0 FEET 0 MILES
 NET LENGTH 3665 FEET 0.69 MILES

DESIGN LOAD = 9 TON
 SOIL FACTOR = 100 %
 DESIGN SPEED = 30 M.P.H. WHITE BEAR AVE. TO VAN DYKE ST.
 45 M.P.H. VAN DYKE ST. TO END OF PROJECT

**OFFICE OF COUNTY ENGINEER
 RAMSEY COUNTY
 CONSTRUCTION PLAN FOR GRADING AND BITUMINOUS SURFACING
 LARPENTEUR AVE.**

BETWEEN: WHITE BEAR AVE. AND BEEBE RD.
 S.A.P. NO. 62-630-12

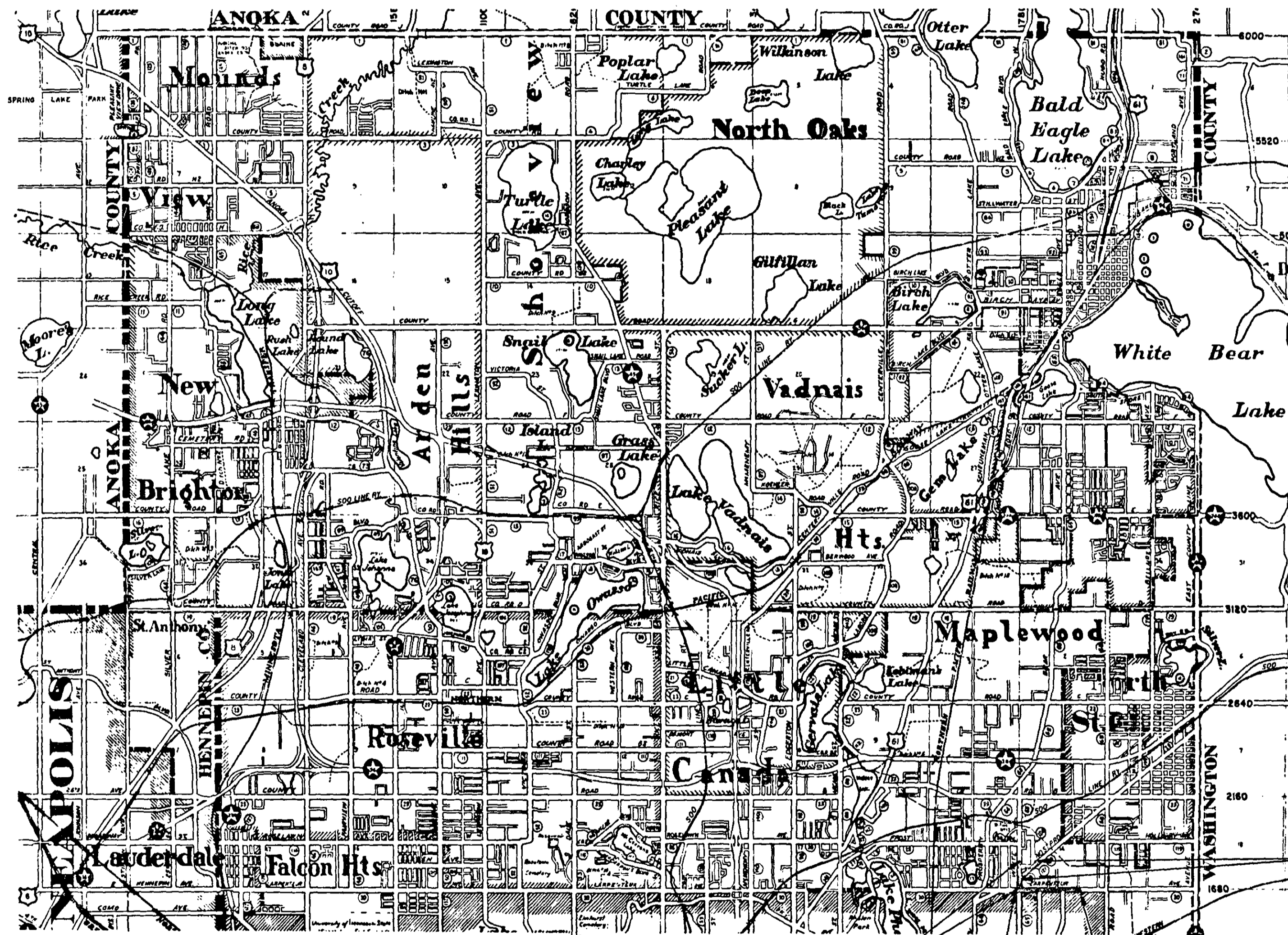
**CONSTRUCTION PLAN FOR STORM SEWER
 WHITE BEAR AVE.**

FROM LARPENTEUR AVE. TO 750 FEET NORTH
 S.A.P. NO. 62-665-07

**CONSTRUCTION PLAN FOR STORM SEWER AND PAVEMENT REPAIR
 NO. ST. PAUL ROAD
 FROM WHITE BEAR AVE. TO 1500 FEET EAST
 S.A.P. NO. 62-629-02**

STORM SEWER CONSTRUCTION, PART OF PHASE II DRAINAGE
 COOPERATIVE PROJECT - CITY, COUNTY & MAPLEWOOD
 (NON-PARTICIPATING STORM SEWER)

DESCRIPTION	SHEET		INDEX	
	S.A.P. 62-630-12 SHEET NO.	S.A.P. 62-665-07 SHEET NO.	S.A.P. 62-629-02 SHEET NO.	PHASE II STORM SEWER SHEET NO.
TITLE SHEET	1	1	1	1
ESTIMATED QUANTITIES & TYPICAL SECTIONS	2&3	2	2	
DRAINAGE CHART	4	5	5	
INTERSECTION DETAILS	6	-	-	
PLAN SHEETS	7,8,9	10	10,11	25 THRU 29
CROSS SECTIONS	12 THRU 21	-	-	
SIGNAL SHEETS	23 & 24	-	-	



S.A.P. 62-629-02

S.A.P. 62-665-07

BEGIN PROJECT
 STA. 68+85

END PROJECT
 STA. 105+50

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.

Walter C. Ober REG. NO. 2042 DATE 10-31-68
 ENGINEER

RECOMMENDED FOR APPROVAL *Dean R. Ankle* DATE 11-4-68
 COUNTY ENGINEER

APPROVED *Thomas H. ...* DATE 11-18-68
 CHAIRMAN OF THE RAMSEY COUNTY BOARD

APPROVED *Thomas H. ...* DATE 11-14-68
 MAYOR, CITY OF ST. PAUL

APPROVED *Walter C. Ober* DATE 11-21-68
 MAYOR, VILLAGE OF MAPLEWOOD

MINNESOTA STATE HIGHWAY DEPARTMENT

RECOMMENDED FOR APPROVAL *R.C. Weichselbaum* DATE 11-20-68

RECOMMENDED FOR APPROVAL *J. ...* DATE 11-19-68
 DISTRICT STATE AID ENGINEER

APPROVAL *Walter C. Ober* DATE 11/21/68
 STATE AID ENGINEER

SPECIFICATIONS

THE "SPECIFICATIONS FOR HIGHWAY CONSTRUCTION" DATED JANUARY 1, 1968 SHALL GOVERN.

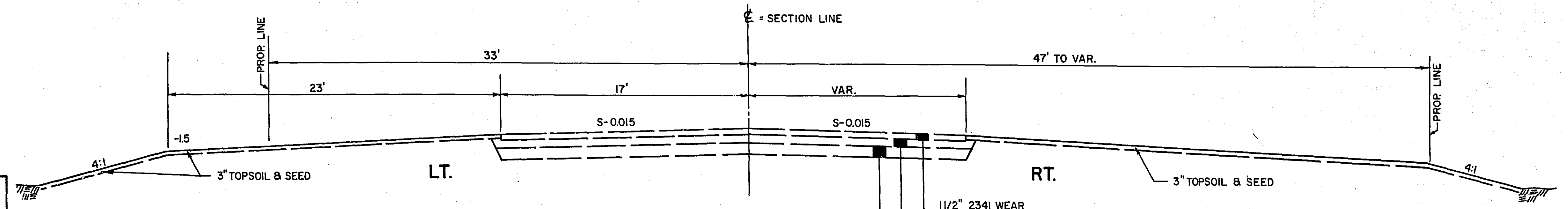
STATEMENT OF ESTIMATED QUANTITIES

ITEM NO.	ITEM	UNIT	S.A.P. 62-630-12	S.A.P. 62-665-07	S.A.P. 62-629-02	TOTAL ESTIMATED QUANTITIES
2021.501	MOBILIZATION	LUMP SUM	1			1
2031.503	FIELD LABORATORY, TYPE C	EACH	1			1
2101.502	CLEARING	TREE	5			5
2101.507	GRUBBING	TREE	10			10
2104.506	REMOVE SIDEWALK	S.F.	530			530
2104.502	REMOVE PAVEMENT	S.Y.	580		775	1,355
2104.503	REMOVE CURB AND GUTTER	L.F.	134		395	529
2104.504	REMOVE CURB	L.F.	141			141
2104.511	REMOVE MANHOLES AND CATCH BASINS	STRUCTURE	9			9
2104.515	REMOVE PIPE SEWERS	L.F.	315			315
2104.520	REMOVE BIT. CURB & BIT. SURFACE	STRUCTURE	1			1
2105.501	COMMON EXCAVATION	C.Y.	30,126			30,126
2105.521	GRANULAR BORROW	C.Y.	500			500
2130.501	WATER	(M) GAL.	200			200
2211.501	AGGREGATE BASE, CLASS 3	TON	7,508			7,508
2211.501	AGGREGATE BASE, CLASS 5	TON	1,509			1,509
2211.501	AGGREGATE BASE, CLASS 6	TON	5,986			5,986
2301.502	CONCRETE PAVEMENT, STANDARD WIDTH	S.Y.	3,329		775	4,104
2301.503	CONCRETE PAVEMENT, IRREGULAR WIDTH	S.Y.	1,105			1,105
2301.511	STRUCTURAL CONCRETE	C.Y.	1,499		173	1,672
2301.521	PAVEMENT REINFORCEMENT, TYPE 612-34	S.Y.	700			700
2301.529	REINFORCEMENT BARS	POUND	3,077		287	3,364
2301.531	STANDARD JOINTS, DESIGN L-1	L.F.	1,490			1,490
2301.531	STANDARD JOINTS, DESIGN L-6	L.F.	1,970		400	2,370
2301.531	STANDARD JOINTS, DESIGN L-8	L.F.	1,324		1,104	2,428
2301.531	STANDARD JOINTS, DESIGN C	L.F.	2,235			2,235
2301.536	DOWEL BAR ASSEMBLIES	L.F.	1,440			1,440
2331.504	BITUMINOUS MATERIAL FOR MIXTURE	TON	115			115
2331.514	BASE COURSE MIXTURE	TON	2,550			2,550
2341.504	BITUMINOUS MATERIAL FOR MIXTURE	TON	102			102
2341.509	WEARING COURSE MIXTURE + FILLER	TON	1,575			1,575
2357.502	BITUMINOUS MATERIAL FOR TACK COAT	GAL.	900			900
2358.501	BITUMINOUS MATERIAL FOR PRIME COAT	GAL.	5,640			5,640
2451.503	GRANULAR BACKFILL	C.Y.	484	65	220	769
2501.511	48" METAL PIPE CULVERT	L.F.	52			52
2501.523	36" CONCRETE CULVERT, CLASS II	L.F.	32			32
2503.502	12" REINFORCED CONCRETE SEWER, CLASS IV	L.F.	422		118	600
2503.502	15" REINFORCED CONCRETE SEWER, CLASS II	L.F.	580	102	100	782
2503.502	18" REINFORCED CONCRETE SEWER, CLASS II	L.F.	78	34	165	276
2503.502	21" REINFORCED CONCRETE SEWER, CLASS II	L.F.			206	206
2503.502	24" REINFORCED CONCRETE SEWER, CLASS II	L.F.	38			38
2506.506	CONSTRUCT MANHOLES, DESIGN A OR F	L.F.	5.3		5.7	11.0
2506.507	CONSTRUCT CATCH BASINS, DESIGN L.P.4-H	STRUCTURE	5		4	9
2506.507	CONSTRUCT CATCH BASINS, DESIGN RC.-2	STRUCTURE	23	6	4	33
2506.511	RECONSTRUCT MANHOLES	L.F.	5.4			5.4
2506.516	CASTING ASSEMBLIES	ASSEMBLY	13			13
2506.521	INSTALL CASTINGS	ASSEMBLY	13		1	14
2506.522	ADJUST FRAME RING AND CASTING	ASSEMBLY	15			15
2521.501	4" CONCRETE WALK	S.F.	362			362
2531.501	CONCRETE CURB AND GUTTER, DESIGN B618	L.F.	5,879		395	6,274
2531.501	CONCRETE CURB AND GUTTER, DESIGN B624	L.F.	1,325			1,325
2531.502	CONCRETE CURB, DESIGN S5	L.F.	75			75
2531.503	CONCRETE MEDIAN	S.Y.	623			623
2531.507	CONCRETE DRIVEWAY PAVEMENT, 7" THICK	S.Y.	165		17	182
2531.507	CONCRETE DRIVEWAY PAVEMENT, 6" THICK	S.Y.	290			290
2575.501	ROADSIDE SEEDING	ACRE	1			1
2575.502	SEED, MIXTURE 6	POUND	75			75
2575.505	SODDING	S.Y.	11,062			11,062
2575.531	COMMERCIAL FERTILIZER, ANALYSIS 12-12-12	TON	3.3			3.3
2575.551	TOPSOIL	C.Y.	1000			1,000
504.679	ADJUST VALVE BOX	BOX	26			26
565.618	MAST ARM FOUNDATION	FOUNDATION	6			6
565.618	PEDESTAL FOUNDATION	FOUNDATION	2			2
565.618	PEDESTRIAN PUSH BUTTON FOUNDATION	FOUNDATION	1			1
565.632	CONCRETE HANDHOLES	HANDHOLE	25			25
565.635	RIGID METALLIC CONDUIT, 3"	L.F.	1,497			1,497
565.635	RIGID METALLIC CONDUIT, 1 3/4"	L.F.	743			743
	STORM SEWER CONSTRUCTION (PHASE II), BID ITEM 1	LUMP SUM				
	STORM SEWER CONSTRUCTION (PHASE II), BID ITEM 2	LUMP SUM				

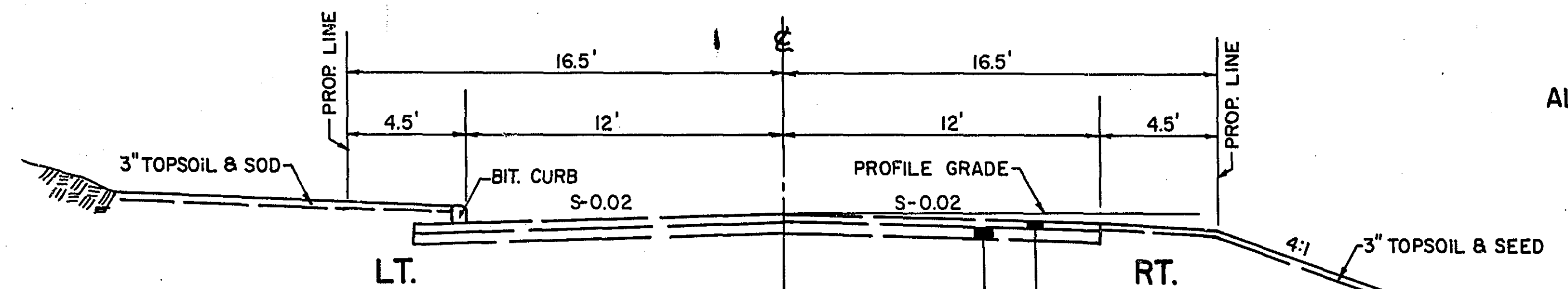
① WHERE DIRECTED BY THE ENGINEER

② 16 WATER GATE HOUSINGS
10 SERVICE VALVE HOUSINGS

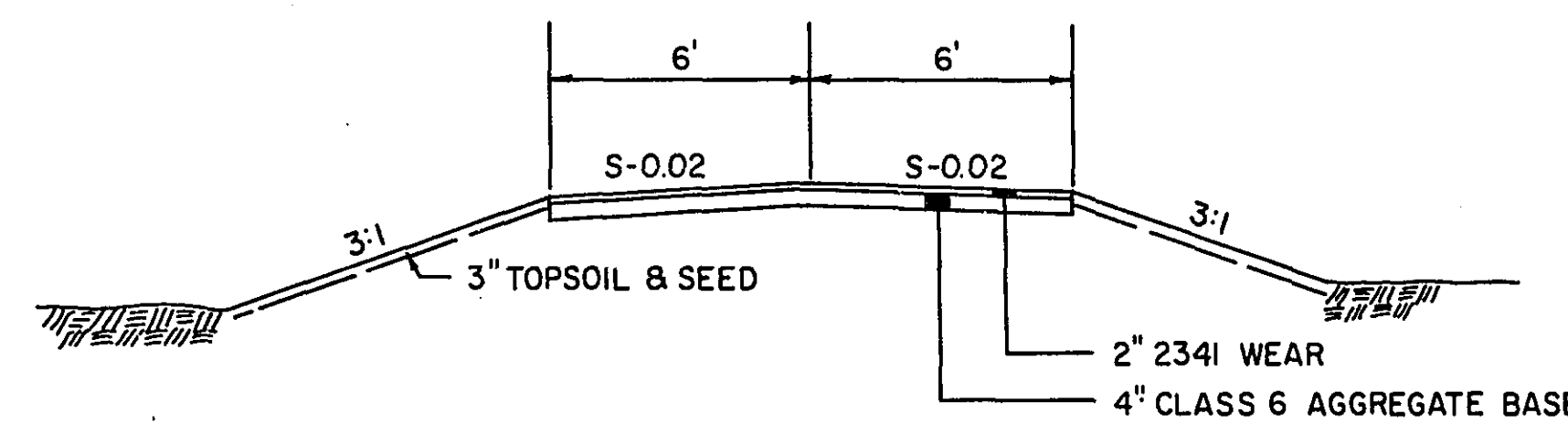
② SEE SHEETS 26 THRU 29



LARPENIEUR AVE.
TAPERED SECTION
STA. 105+44± TO 108+50±

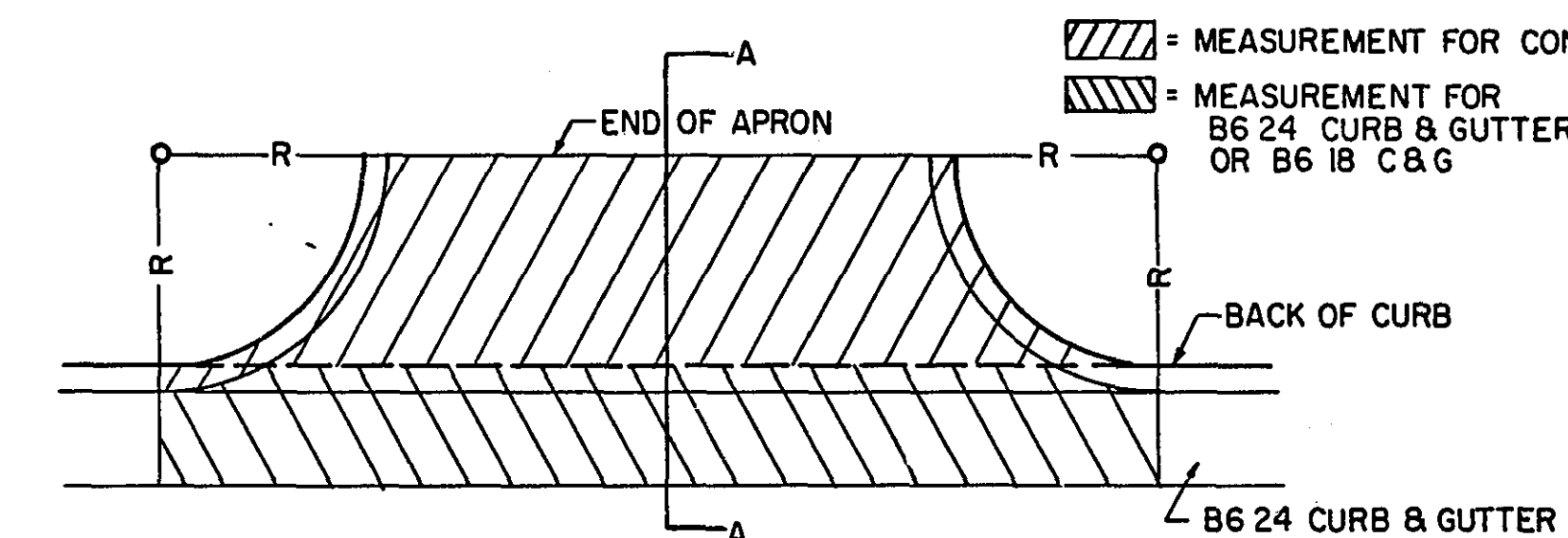


BEEBE RD.



ENT. LT. STA. 106+85±

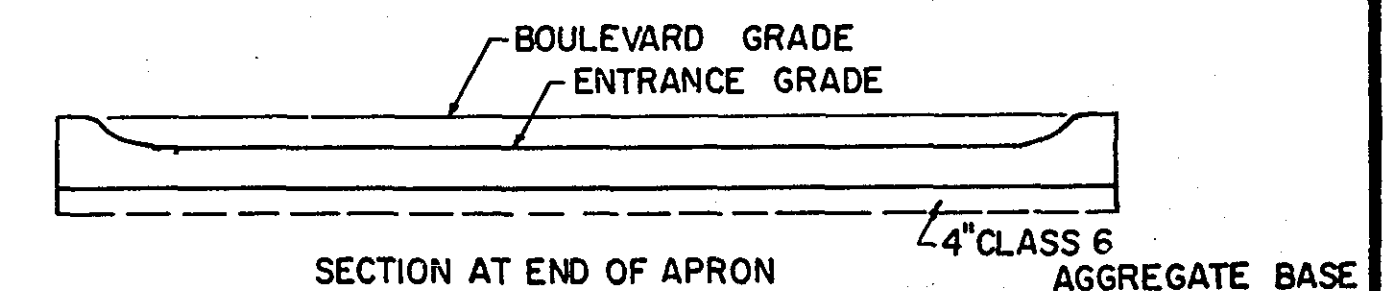
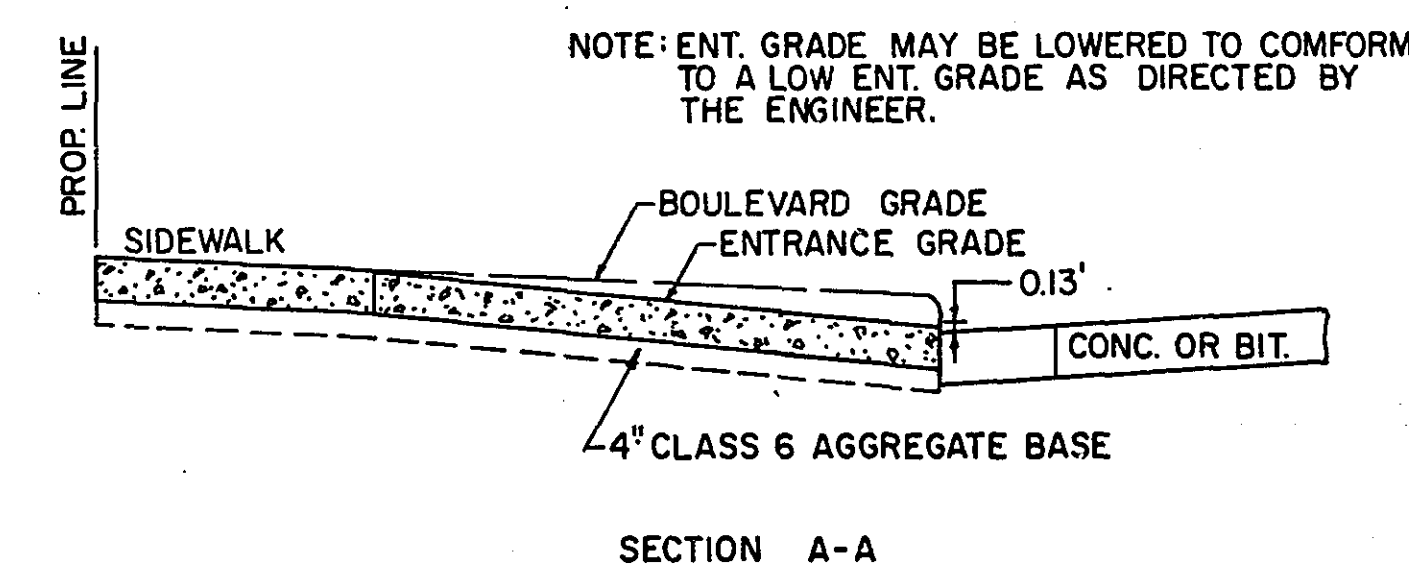
NOTE: BITUMINOUS MATERIAL SHALL BE:
2331 BASE A.C. - 1 (120-150 PENETRATION) 3151
2341 WEARING A.C. - 1 (85-100 PENETRATION) 3151
2357 TACK COAT M.C. - 250 or M.C. - 800 3151
2358 PRIME COAT M.C. - 70 3151



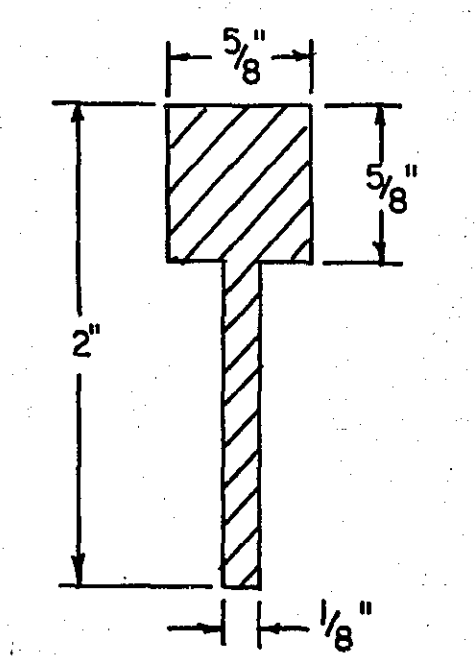
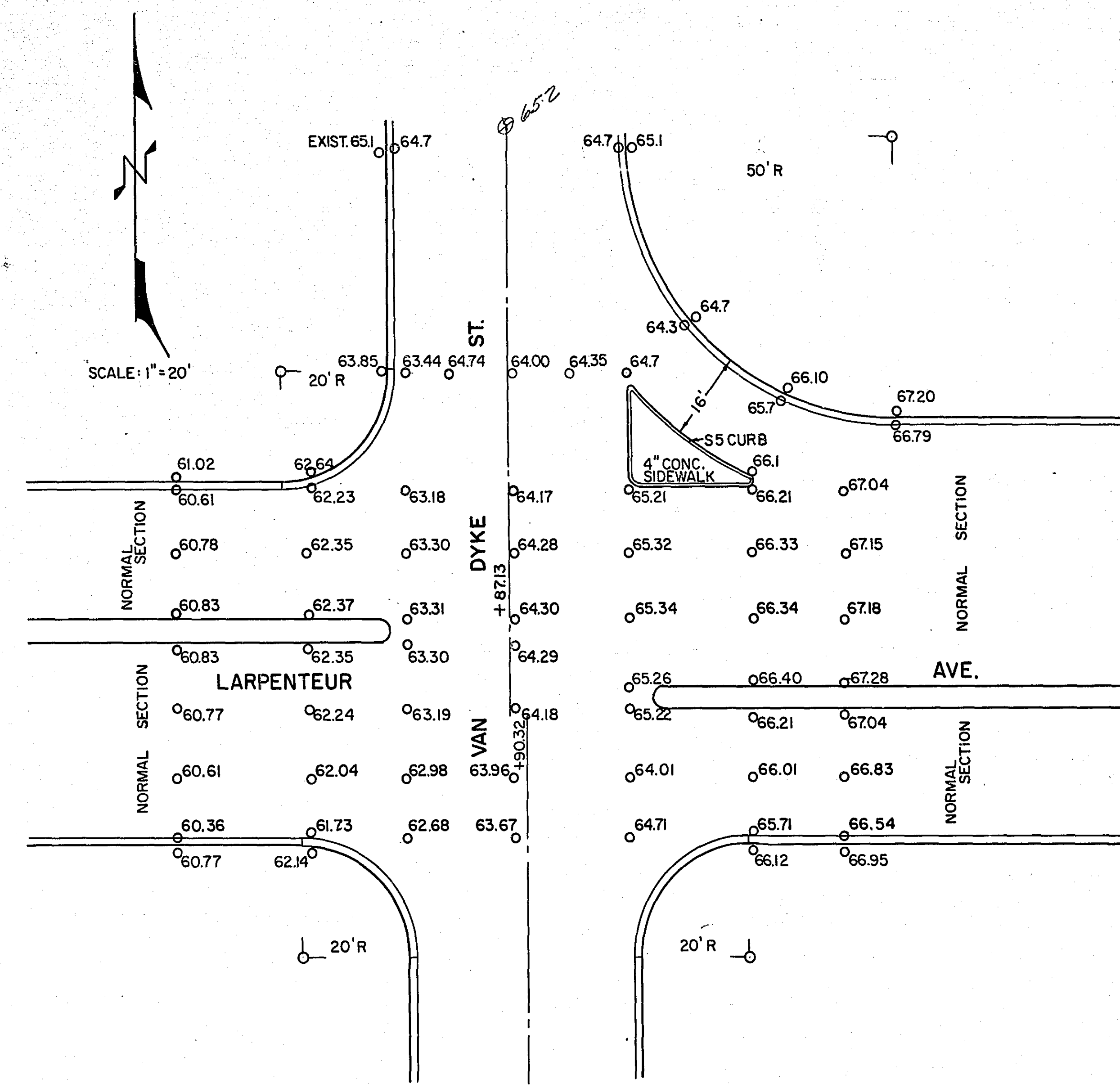
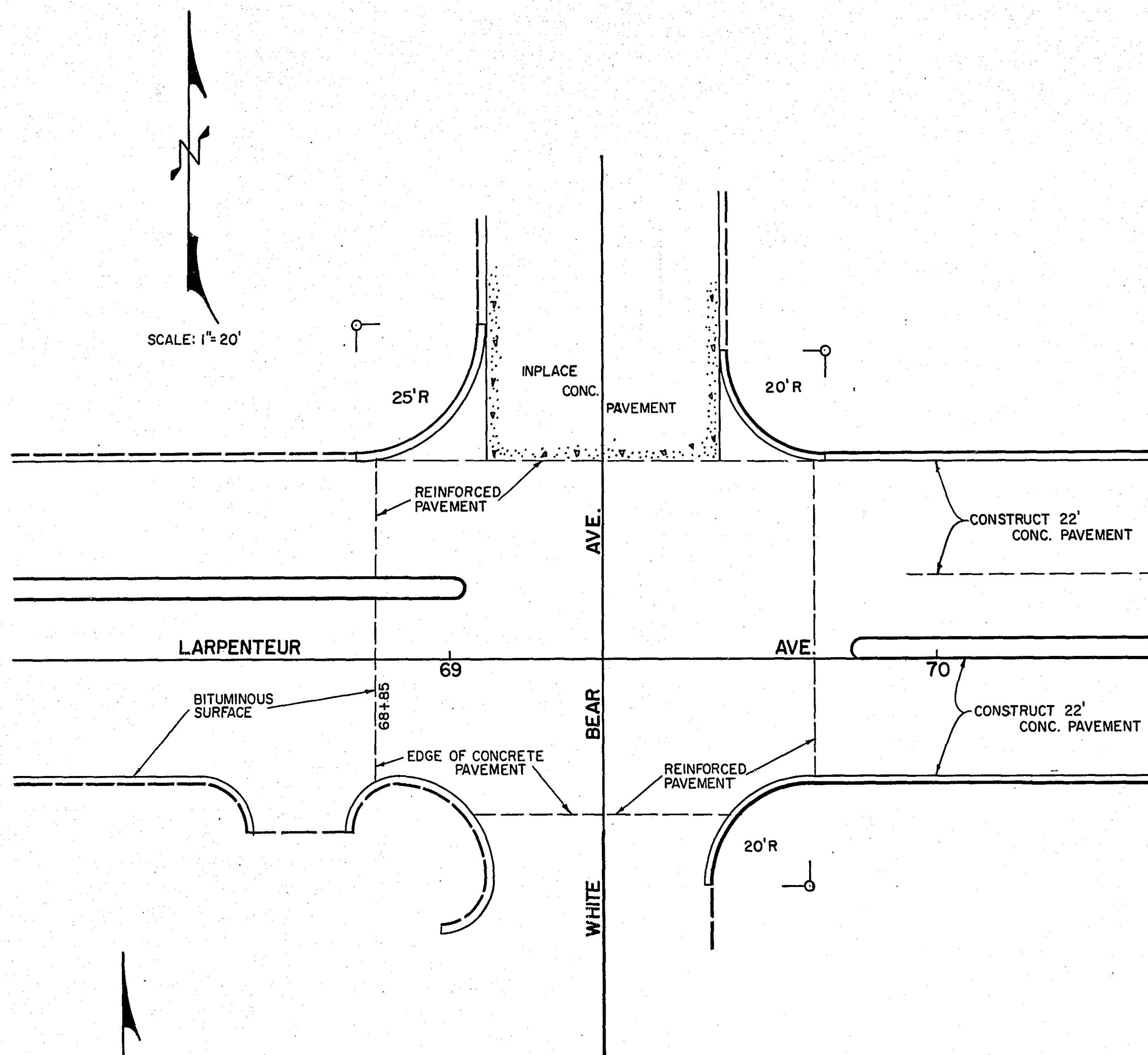
ENTRANCE	RADIUS	WIDTH
PRIVATE	5'	10' MIN. ST. PAUL
ALLEY	10'	12' MIN. MAPLEWOOD
COMMERCIAL	10'	22'

THE EXACT LOCATION, WIDTH AND RADIUS OF ENTRANCES SHALL BE DETERMINED IN THE FIELD BY THE ENGINEER.

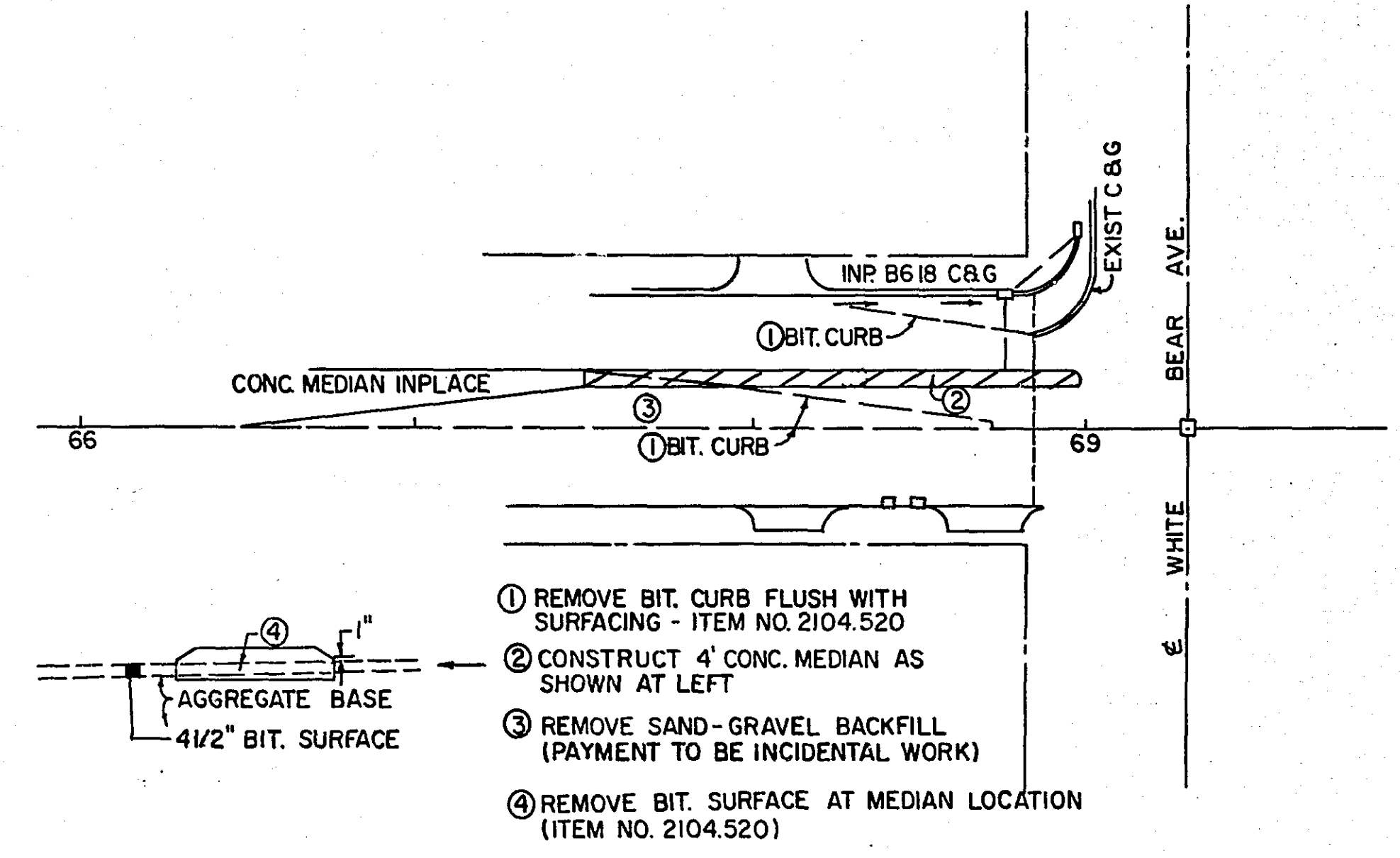
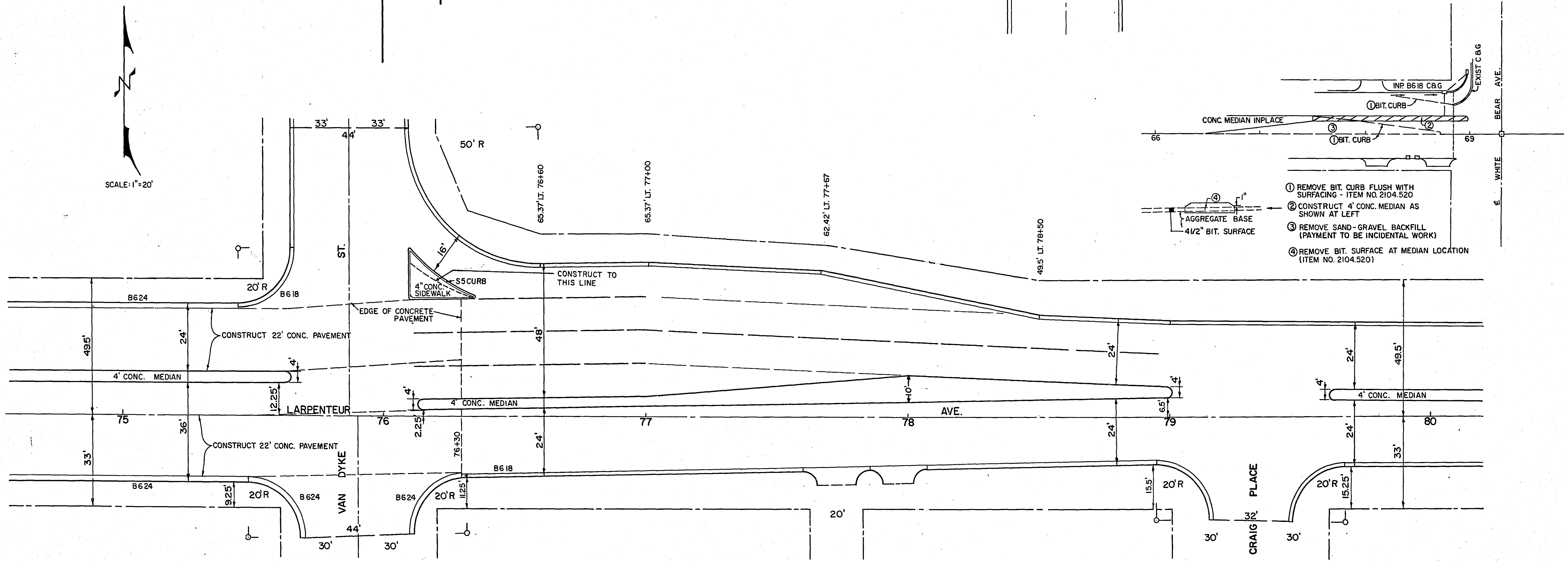
PAVE ONLY TO END OF APRON (IN LINE WITH RADIUS POINTS) UNLESS OTHERWISE DIRECTED BY THE ENGINEER.



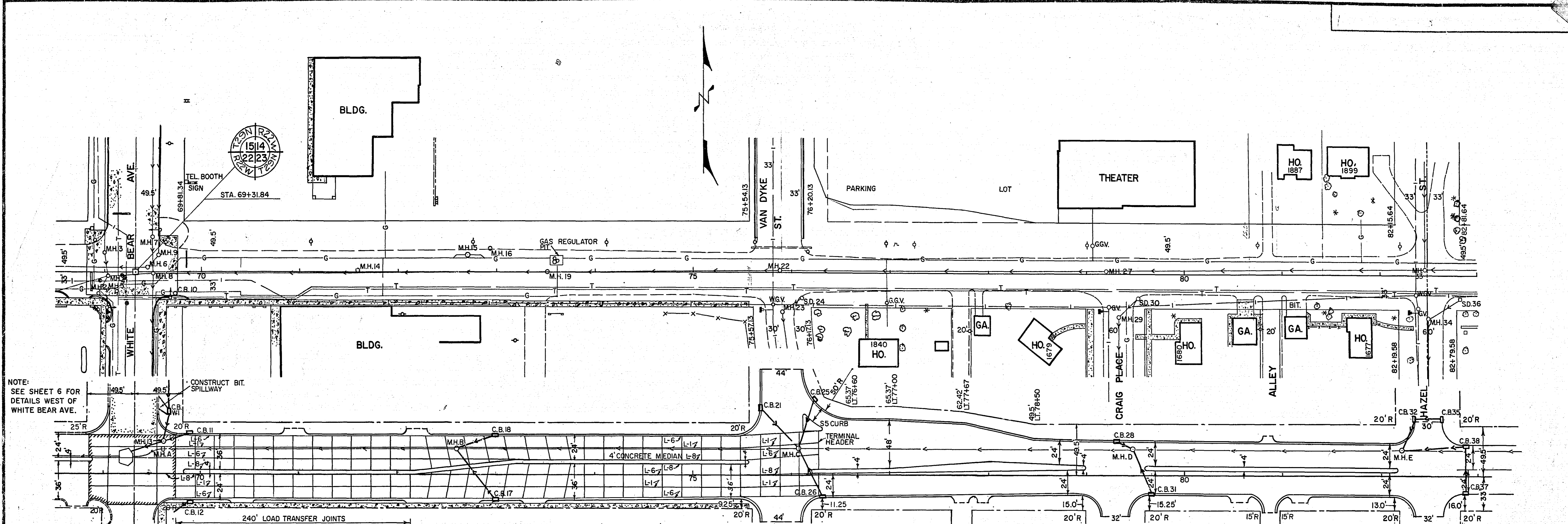
MICROFILMED
RAMSEY CO. ENGR.



DETAIL OF CONTRACTION JOINT
(SAWED-FILLED WITH CONC. JOINT SEALER SPEC. 3723)

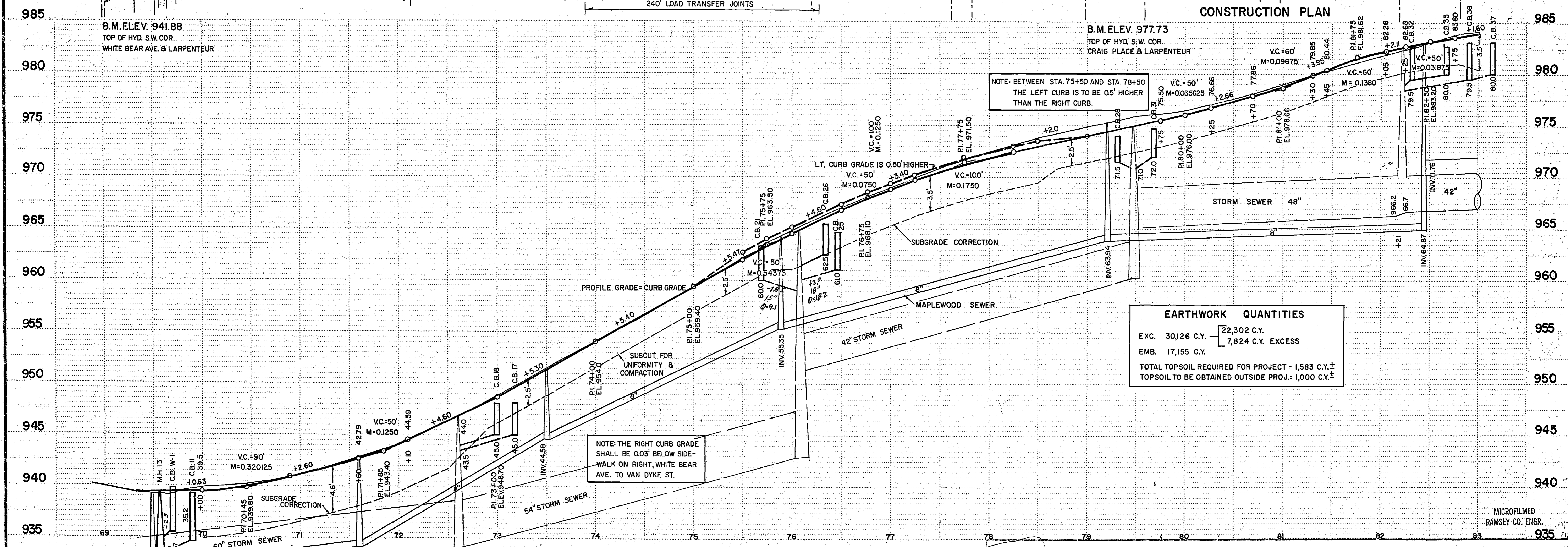


- ① REMOVE BIT. CURB FLUSH WITH SURFACING - ITEM NO. 2104.520
- ② CONSTRUCT 4' CONC. MEDIAN AS SHOWN AT LEFT
- ③ REMOVE SAND- GRAVEL BACKFILL (PAYMENT TO BE INCIDENTAL WORK)
- ④ REMOVE BIT. SURFACE AT MEDIAN LOCATION (ITEM NO. 2104.520)



NOTE: SEE SHEET 6 FOR DETAILS WEST OF WHITE BEAR AVE.

CONSTRUCTION PLAN



NOTE: BETWEEN STA. 75+50 AND STA. 78+50 THE LEFT CURB IS TO BE 0.5' HIGHER THAN THE RIGHT CURB.

NOTE: THE RIGHT CURB GRADE SHALL BE 0.03' BELOW SIDEWALK ON RIGHT, WHITE BEAR AVE. TO VAN DYKE ST.

EARTHWORK QUANTITIES

EXC.	30,126 C.Y.	22,302 C.Y.
EMB.	17,155 C.Y.	7,824 C.Y. EXCESS
TOTAL TOPSOIL REQUIRED FOR PROJECT = 1,583 C.Y. ±		
TOPSOIL TO BE OBTAINED OUTSIDE PROJ. = 1,000 C.Y. ±		

S.A.P. NO. 62-630-12

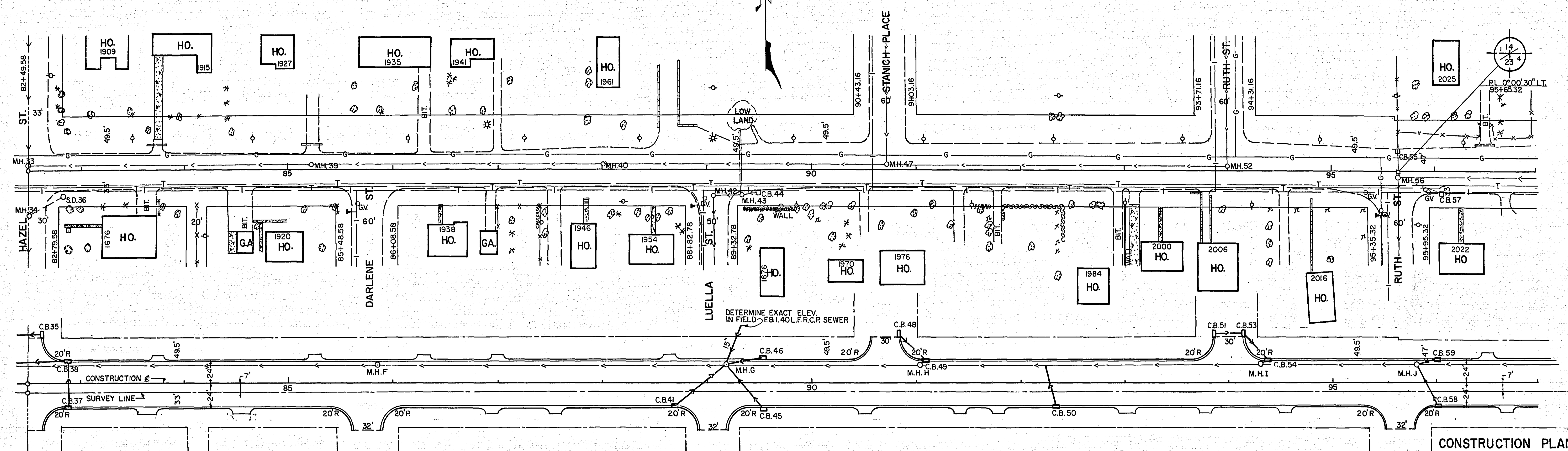
Sheet No. 7 of 29 Sheets

6870

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RAMSEY CO. ENGR.

MORSTAR © NO. 18 - ST. PAUL, MINNEAPOLIS, MINNESOTA ©

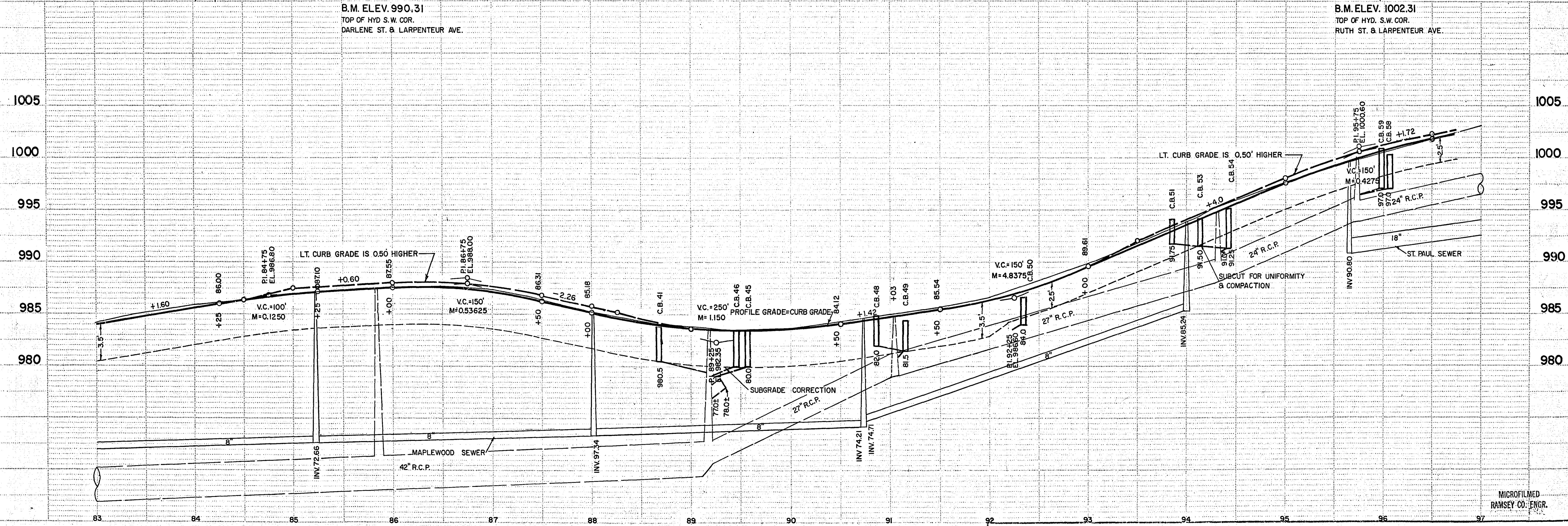
STA. 95+63 LT. 36' TO STA. 96+43 LT. 32'
 REMOVE 168 L.F. WOOD PICKET FENCE
 RESET 121 L.F. WOOD PICKET FENCE



CONSTRUCTION PLAN

B.M. ELEV. 990.31
 TOP OF HYD. S.W. COR.
 DARLENE ST. & LARPEN TEUR AVE.

B.M. ELEV. 1002.31
 TOP OF HYD. S.W. COR.
 RUTH ST. & LARPEN TEUR AVE.



S.A.P. NO. 62-630-12

Sheet No. 8 of 29 Sheets

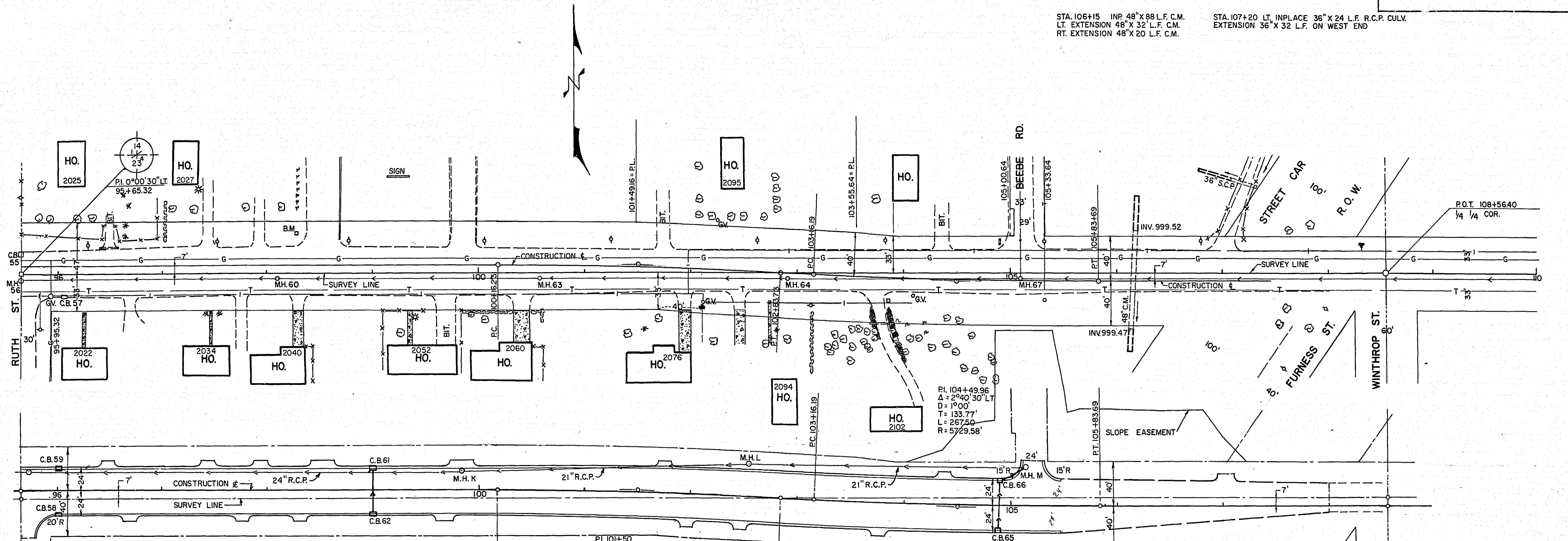
MICROFILMED
 RAMSEY CO. ENGR.

6870

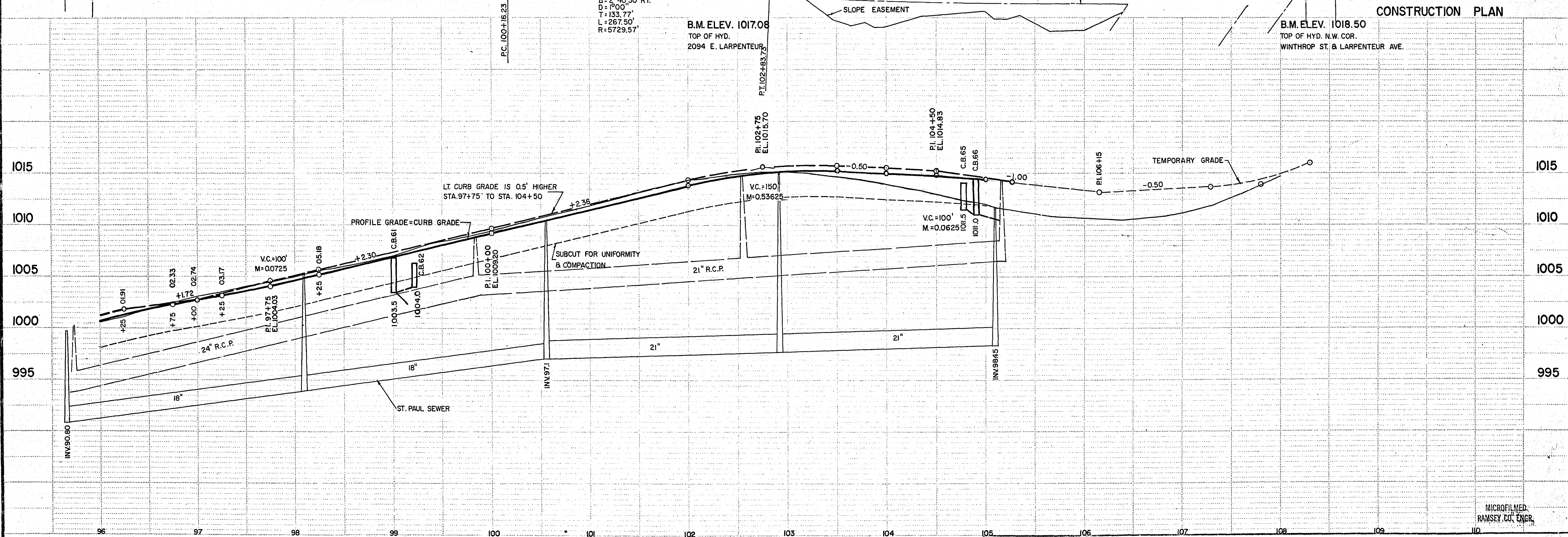
NORTSTAR © No. 102 - ST. PAUL - MINNEAPOLIS - MINNESOTA ©

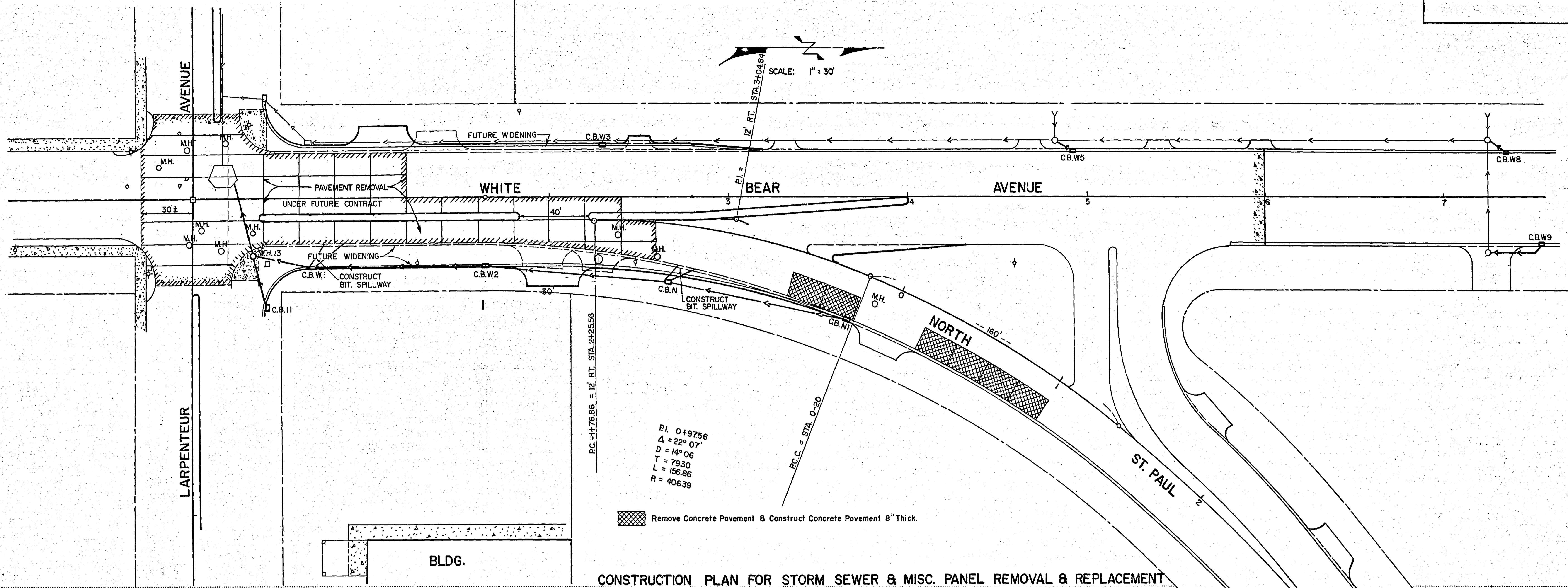
STA. 106+15 INP 48" X 88 L.F. C.M.
 LT. EXTENSION 48" X 32 L.F. C.M.
 RT. EXTENSION 48" X 20 L.F. C.M.

STA. 107+20 LT. INPLACE 36" X 24 L.F. R.C.P. CULV.
 EXTENSION 36" X 32 L.F. ON WEST END

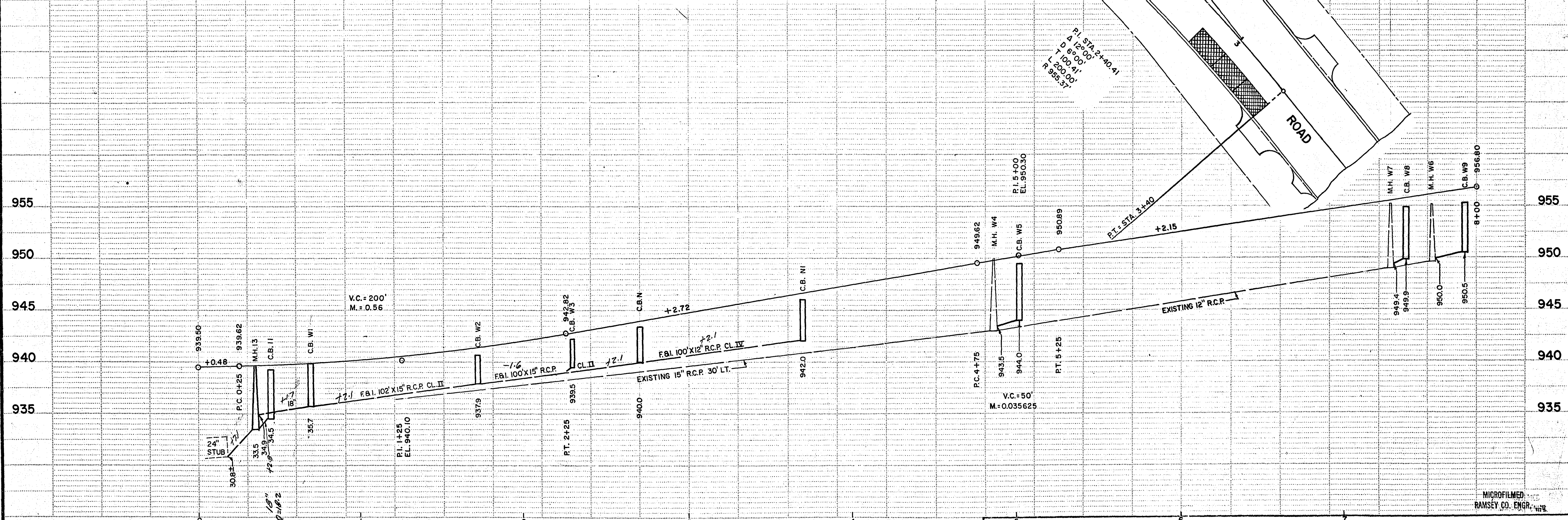


CONSTRUCTION PLAN



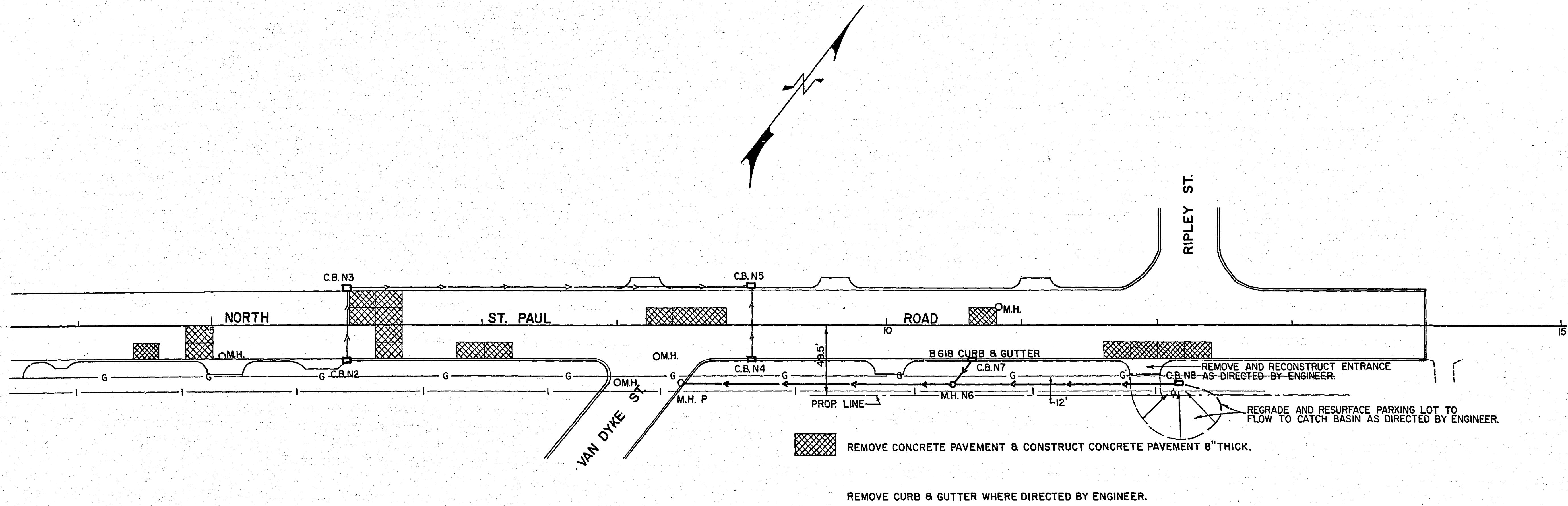


CONSTRUCTION PLAN FOR STORM SEWER & MISC. PANEL REMOVAL & REPLACEMENT



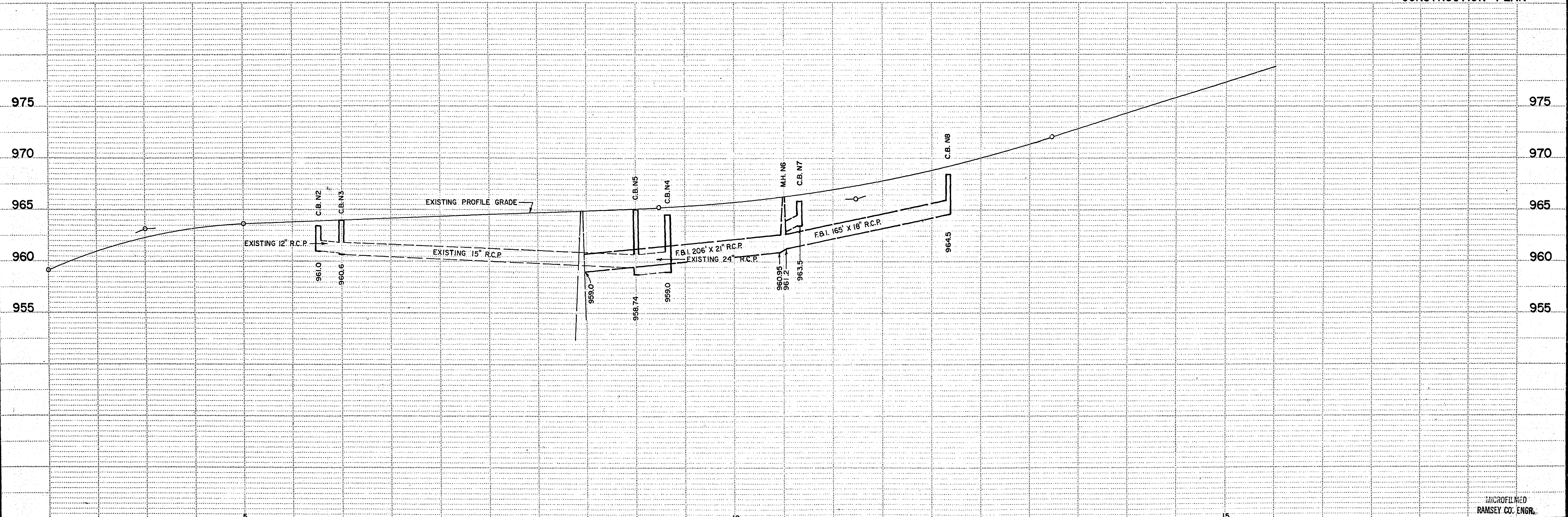
NORTH & No. 1st St. Paul, Minnesota, Minnesota

MICROFILMED
RAMSEY CO. ENGR.



REMOVE CURB & GUTTER WHERE DIRECTED BY ENGINEER.

CONSTRUCTION PLAN



NORSTAR © NO. 12, ST. PAUL, MINNEAPOLIS, MINNESOTA ©

S.A.P. NO. 62-629-02

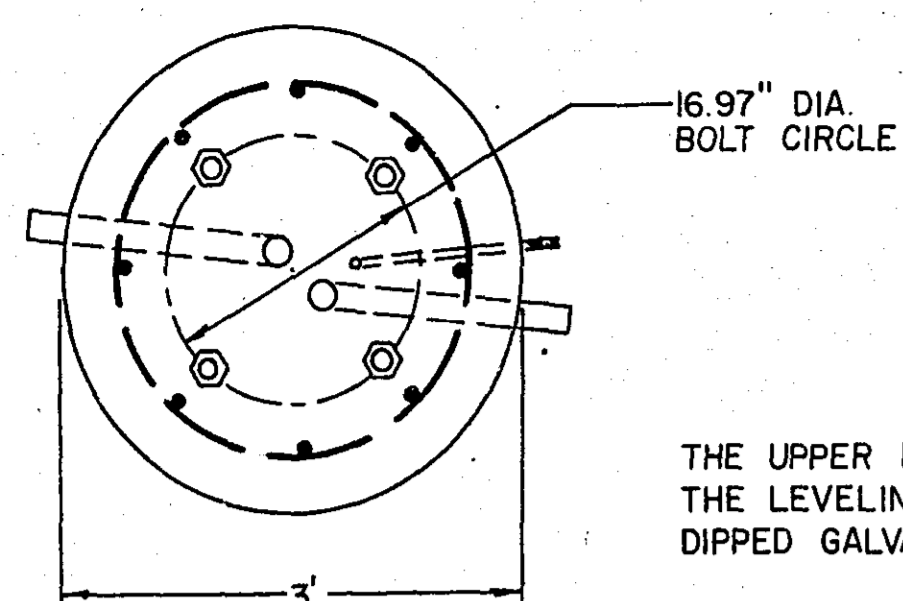
Sheet No. 11 of 29 Sheets

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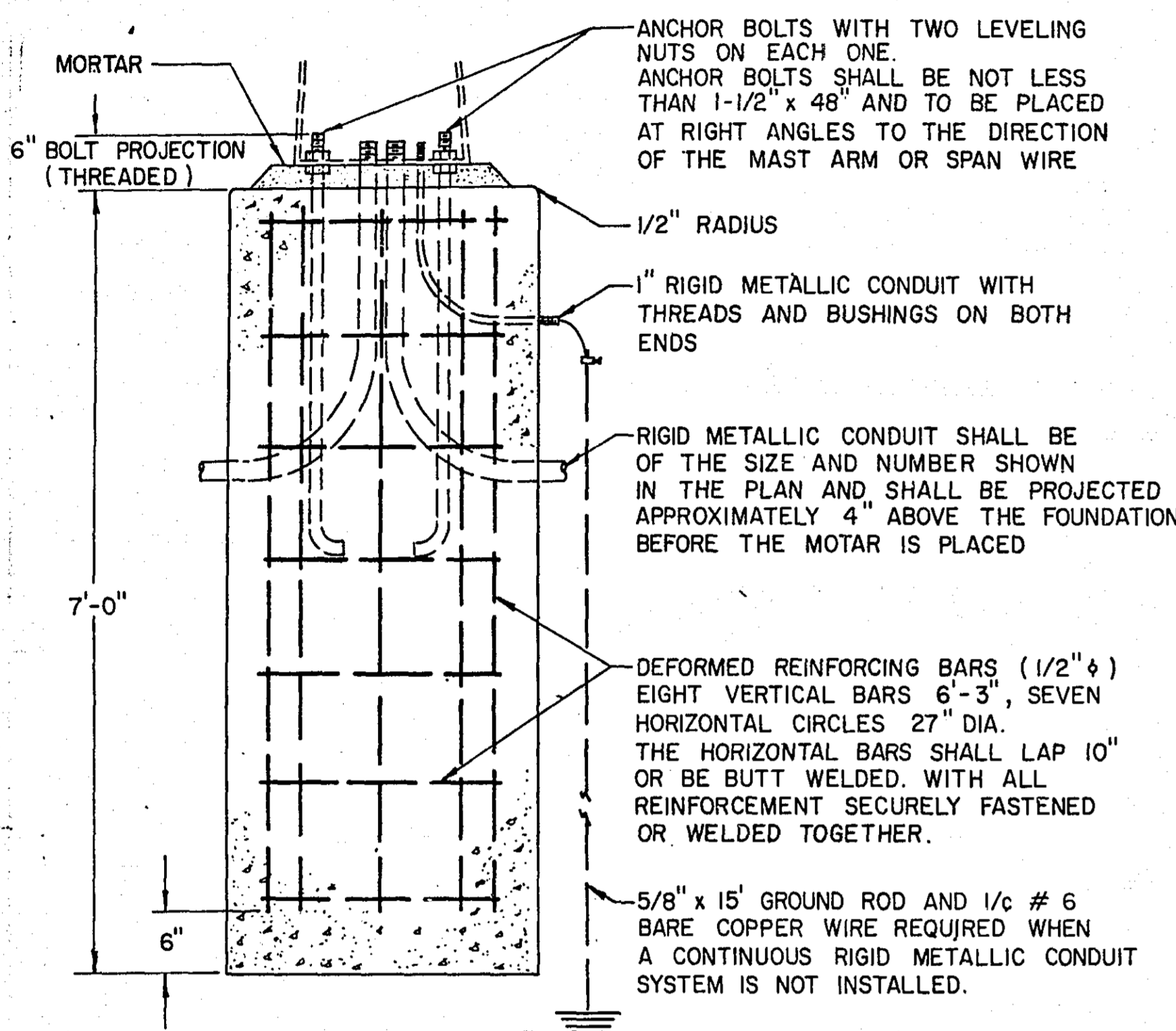
6870

CONCRETE FOUNDATION

FOR MAST ARM TRAFFIC SIGNAL POLE



THE UPPER 10" OF THE ANCHOR AND THE LEVELING NUTS SHALL BE HOT DIPPED GALVANIZED



ANCHOR BOLTS WITH TWO LEVELING NUTS ON EACH ONE. ANCHOR BOLTS SHALL BE NOT LESS THAN 1-1/2" x 48" AND TO BE PLACED AT RIGHT ANGLES TO THE DIRECTION OF THE MAST ARM OR SPAN WIRE

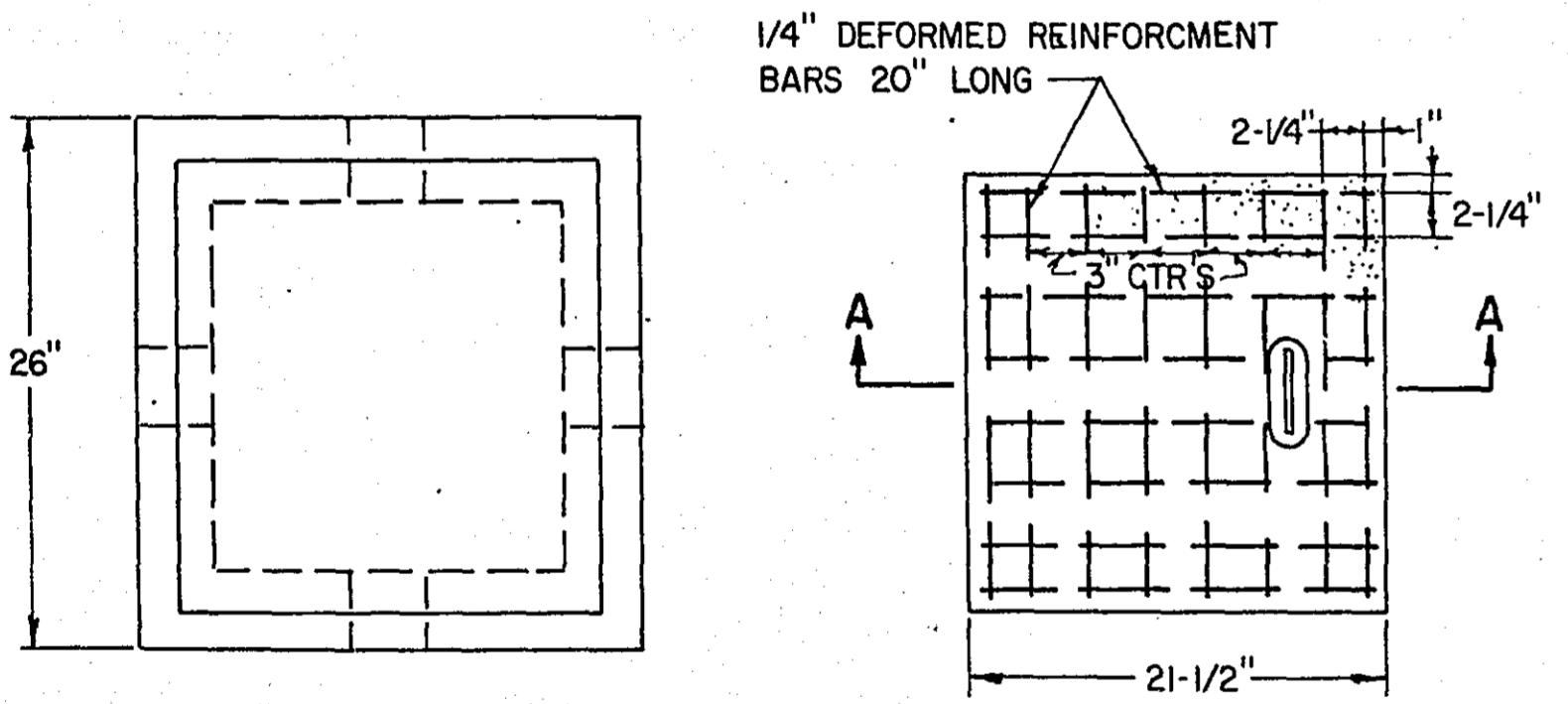
1/2" RADIUS

1" RIGID METALLIC CONDUIT WITH THREADS AND BUSHINGS ON BOTH ENDS

RIGID METALLIC CONDUIT SHALL BE OF THE SIZE AND NUMBER SHOWN IN THE PLAN AND SHALL BE PROJECTED APPROXIMATELY 4" ABOVE THE FOUNDATION BEFORE THE MORTAR IS PLACED

DEFORMED REINFORCING BARS (1/2" ϕ) EIGHT VERTICAL BARS 6'-3", SEVEN HORIZONTAL CIRCLES 27" DIA. THE HORIZONTAL BARS SHALL LAP 10" OR BE BUTT WELDED. WITH ALL REINFORCEMENT SECURELY FASTENED OR WELDED TOGETHER.

5/8" x 15' GROUND ROD AND 1/c # 6 BARE COPPER WIRE REQUIRED WHEN A CONTINUOUS RIGID METALLIC CONDUIT SYSTEM IS NOT INSTALLED.

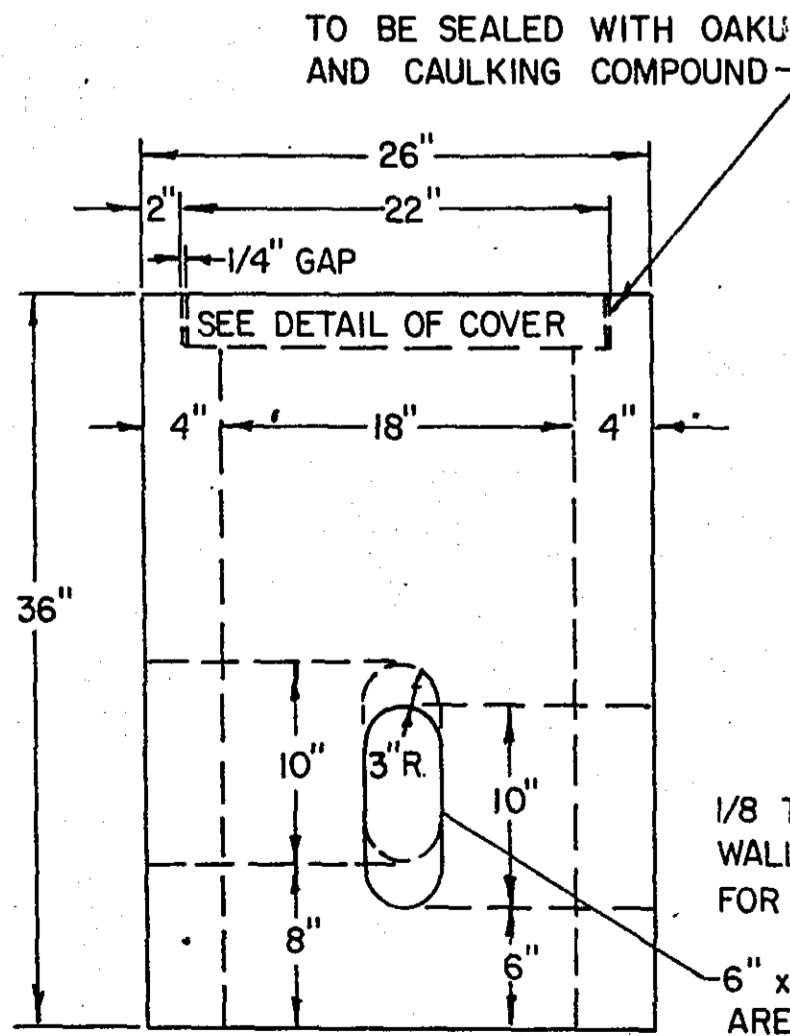


PLAN

PLAN OF COVER

SECTION A-A

SEC. B-B



ELEVATION

TO BE SEALED WITH OAKUM AND CAULKING COMPOUND

1/4" GAP

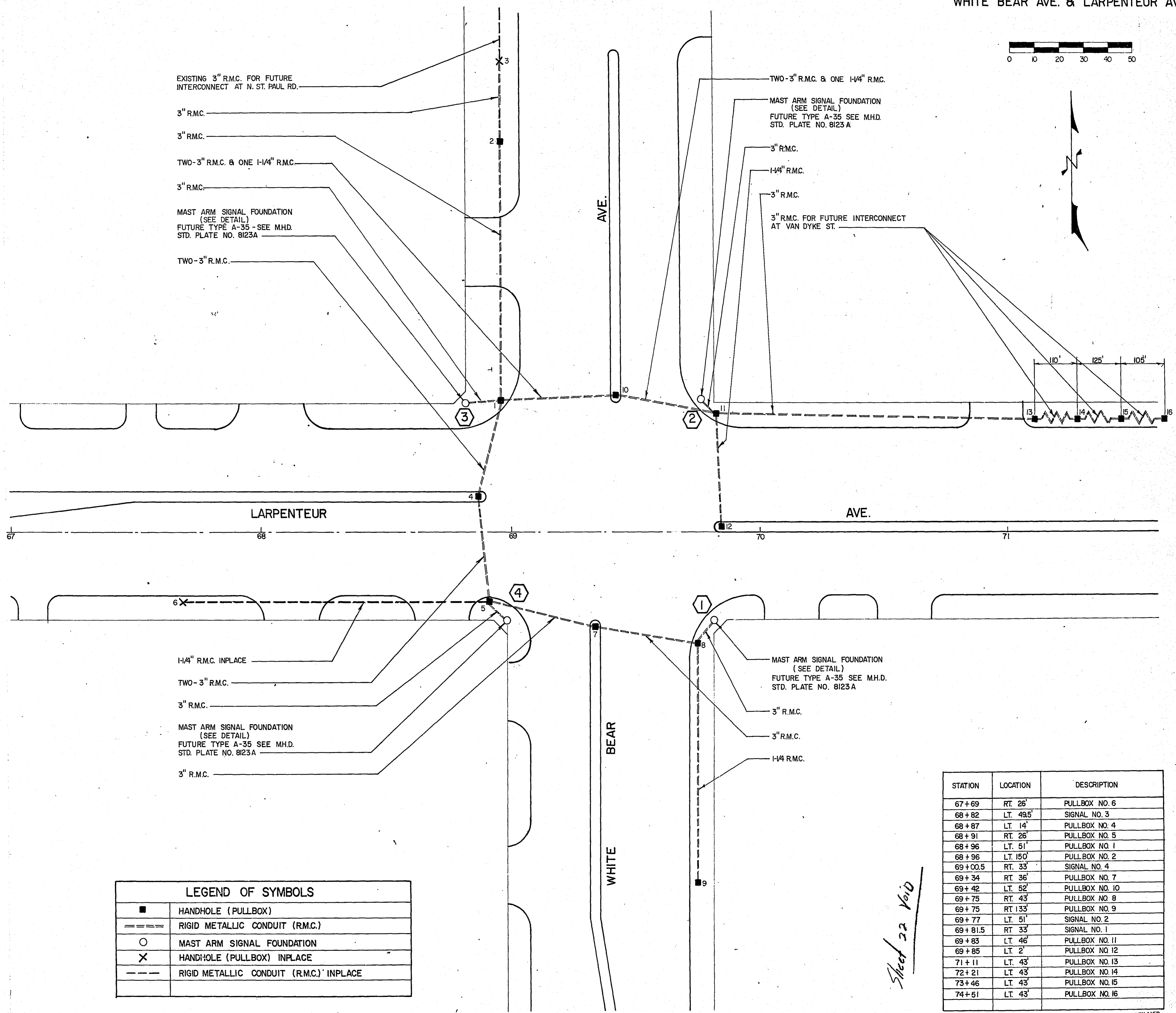
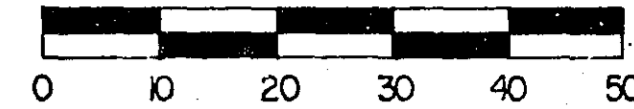
SEE DETAIL OF COVER

1/8" TO 1/2" MAX. SLOPE ON WALLS WILL BE PERMITTED FOR STRIPPING FORMS.

6" x 10" ACCESS HOLES ARE ACCEPTABLE

PRECAST CONCRETE HANDHOLE OR PULLBOX

WHITE BEAR AVE. & LARPEN TEUR AVE.



EXISTING 3" R.M.C. FOR FUTURE INTERCONNECT AT N. ST. PAUL RD.

3" R.M.C.

3" R.M.C.

TWO-3" R.M.C. & ONE 1-1/4" R.M.C.

3" R.M.C.

MAST ARM SIGNAL FOUNDATION (SEE DETAIL) FUTURE TYPE A-35 - SEE M.H.D. STD. PLATE NO. 8123A

TWO-3" R.M.C.

TWO-3" R.M.C. & ONE 1-1/4" R.M.C.

MAST ARM SIGNAL FOUNDATION (SEE DETAIL) FUTURE TYPE A-35 SEE M.H.D. STD. PLATE NO. 8123A

3" R.M.C.

1-1/4" R.M.C.

3" R.M.C.

3" R.M.C. FOR FUTURE INTERCONNECT AT VAN DYKE ST.

1-1/4" R.M.C. INPLACE

TWO-3" R.M.C.

3" R.M.C.

MAST ARM SIGNAL FOUNDATION (SEE DETAIL) FUTURE TYPE A-35 SEE M.H.D. STD. PLATE NO. 8123A

3" R.M.C.

3" R.M.C.

MAST ARM SIGNAL FOUNDATION (SEE DETAIL) FUTURE TYPE A-35 SEE M.H.D. STD. PLATE NO. 8123A

3" R.M.C.

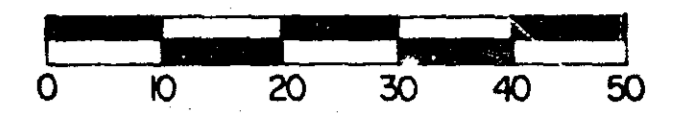
3" R.M.C.

1-1/4" R.M.C.

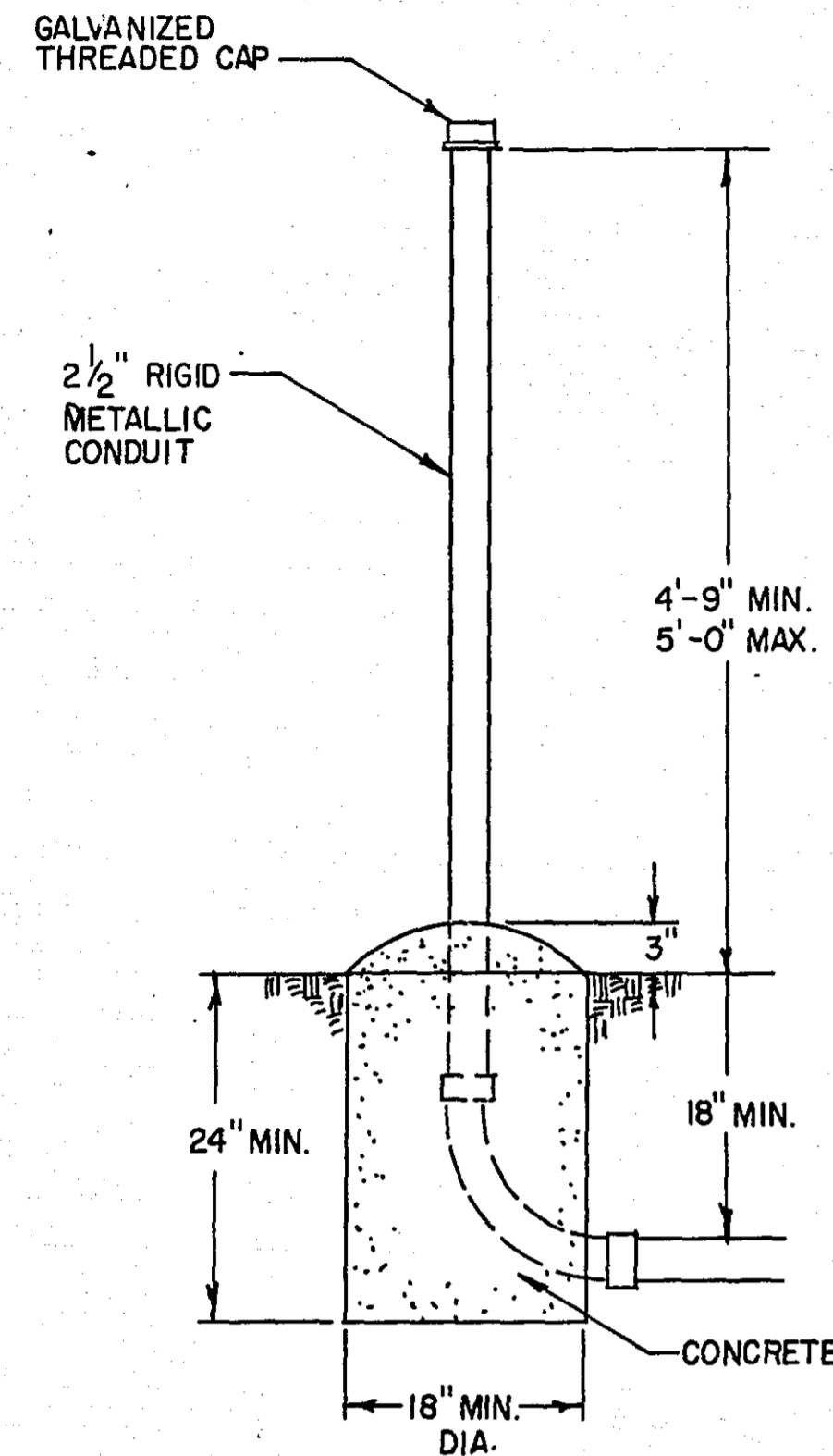
LEGEND OF SYMBOLS	
■	HANDHOLE (PULLBOX)
---	RIGID METALLIC CONDUIT (R.M.C.)
○	MAST ARM SIGNAL FOUNDATION
×	HANDHOLE (PULLBOX) INPLACE
---	RIGID METALLIC CONDUIT (R.M.C.) INPLACE

STATION	LOCATION	DESCRIPTION
67+69	RT. 26'	PULLBOX NO. 6
68+82	LT. 49.5'	SIGNAL NO. 3
68+87	LT. 14'	PULLBOX NO. 4
68+91	RT. 26'	PULLBOX NO. 5
68+96	LT. 51'	PULLBOX NO. 1
68+96	LT. 150'	PULLBOX NO. 2
69+00.5	RT. 33'	SIGNAL NO. 4
69+34	RT. 36'	PULLBOX NO. 7
69+42	LT. 52'	PULLBOX NO. 10
69+75	RT. 43'	PULLBOX NO. 8
69+75	RT. 133'	PULLBOX NO. 9
69+77	LT. 51'	SIGNAL NO. 2
69+81.5	RT. 33'	SIGNAL NO. 1
69+83	LT. 46'	PULLBOX NO. 11
69+85	LT. 2'	PULLBOX NO. 12
71+11	LT. 43'	PULLBOX NO. 13
72+21	LT. 43'	PULLBOX NO. 14
73+46	LT. 43'	PULLBOX NO. 15
74+51	LT. 43'	PULLBOX NO. 16

Sheet 22 Void

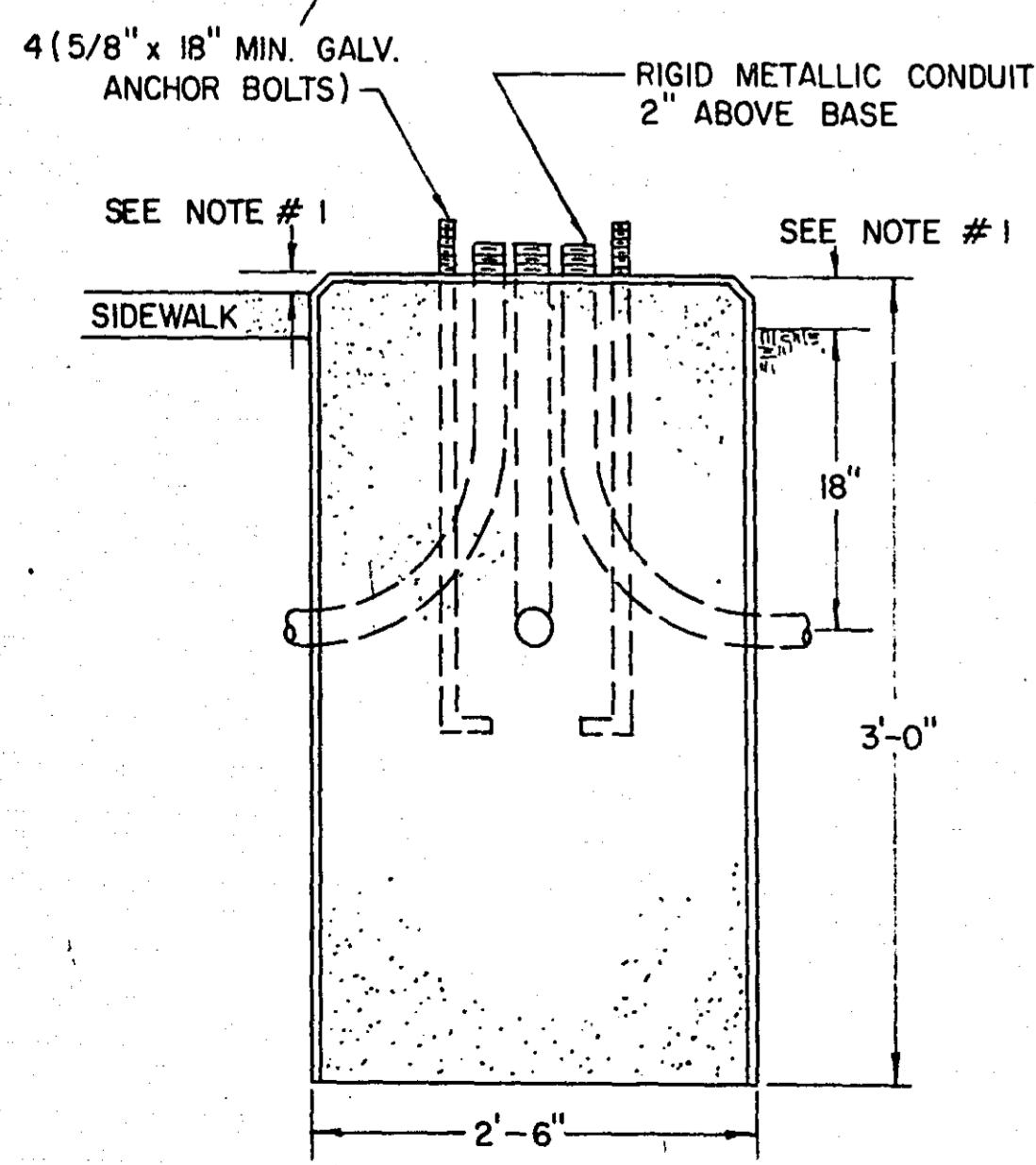
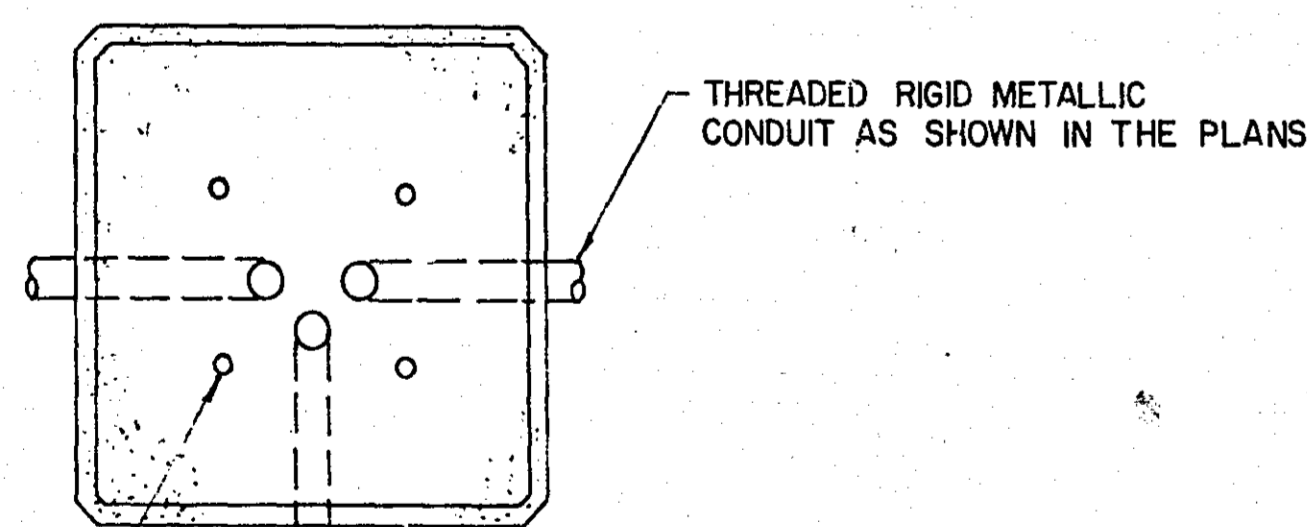


**PUSH BUTTON STATION
DETAIL**

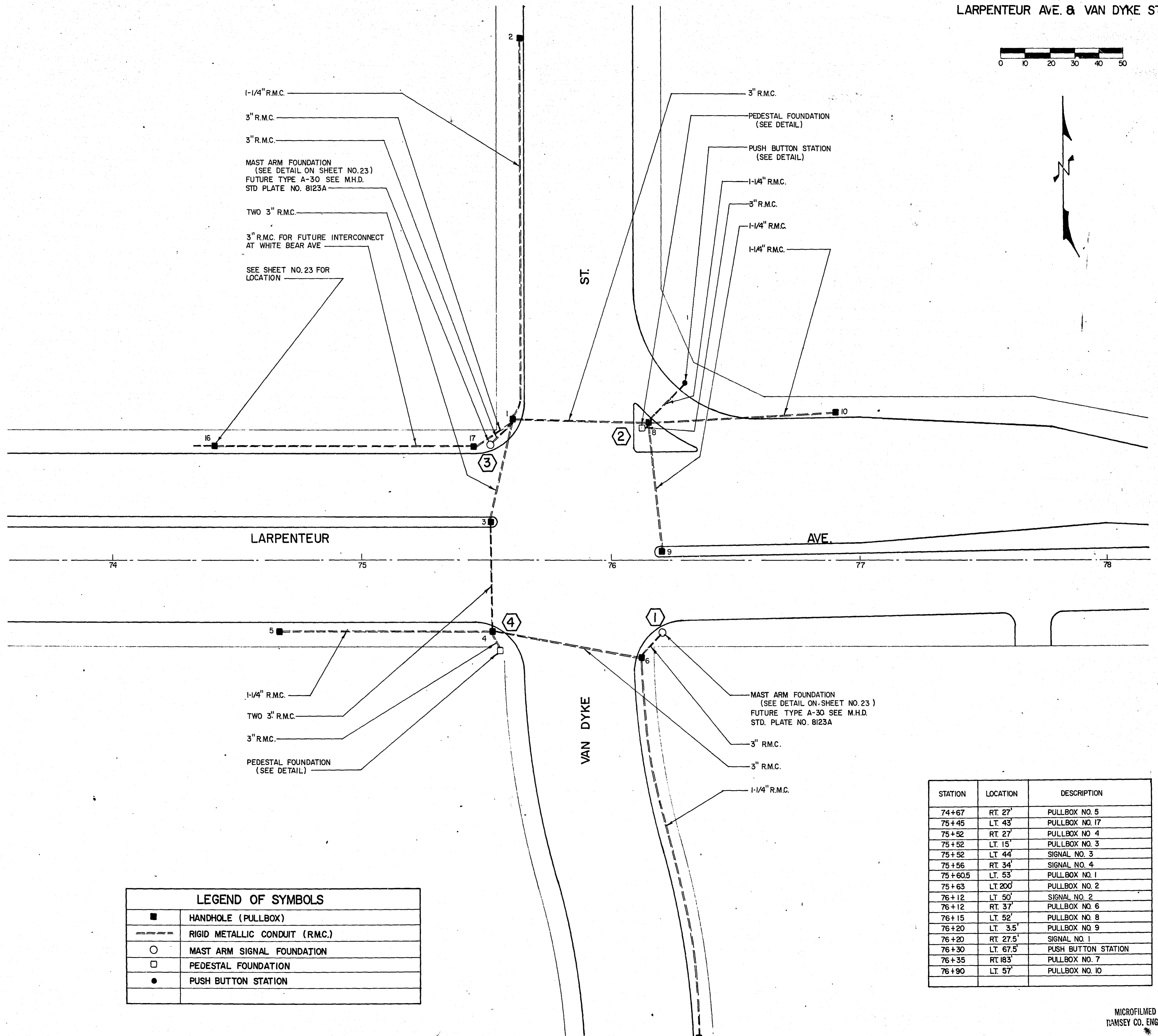


**PEDESTAL FOUNDATION
DETAIL**

NOTE #1
DISTANCE FROM GROUND LINE VARIABLE FROM 1/4" IN THE SIDEWALK AREA TO 2" IN THE SHOULDER OR BLVD. AREA



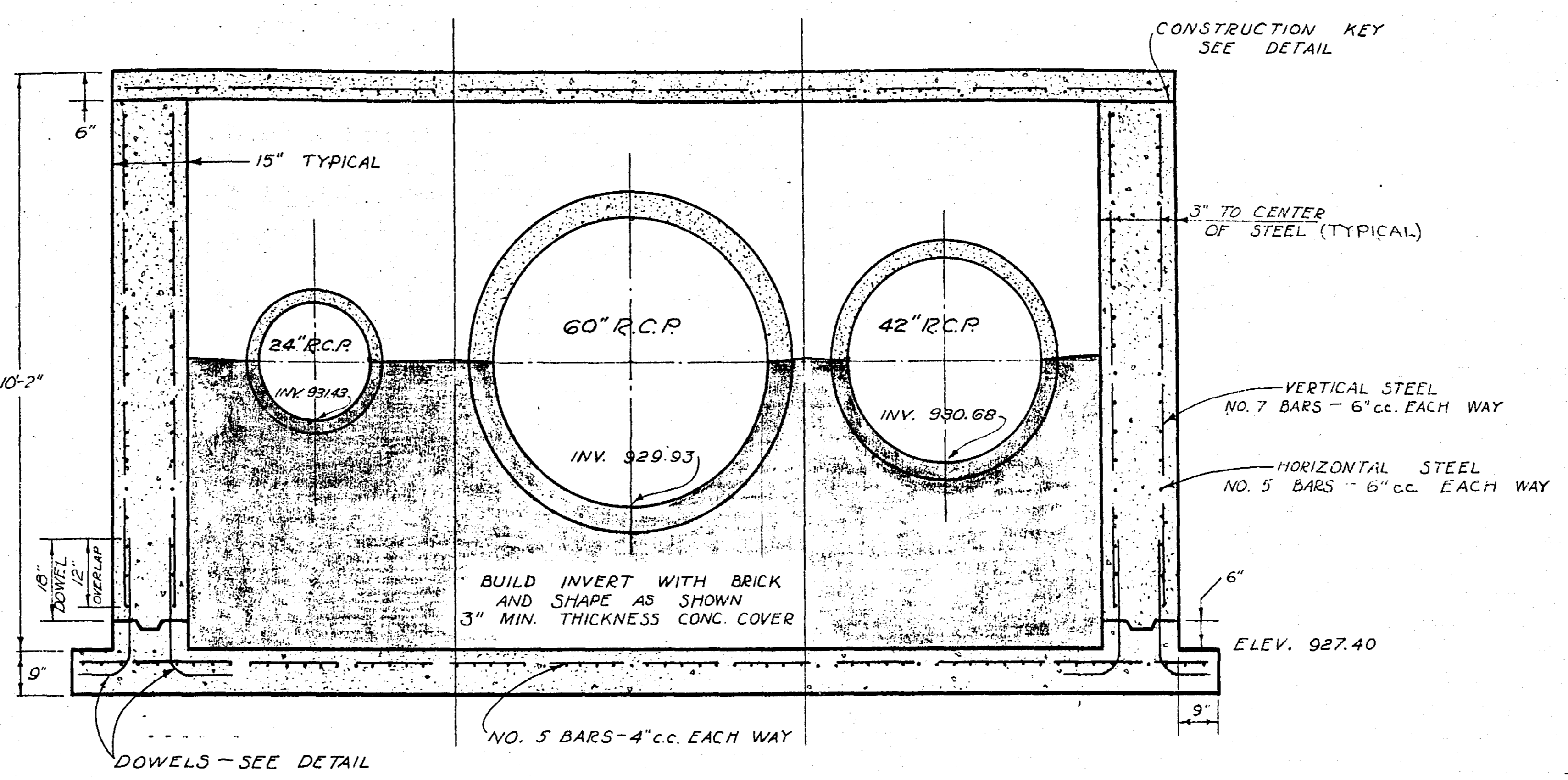
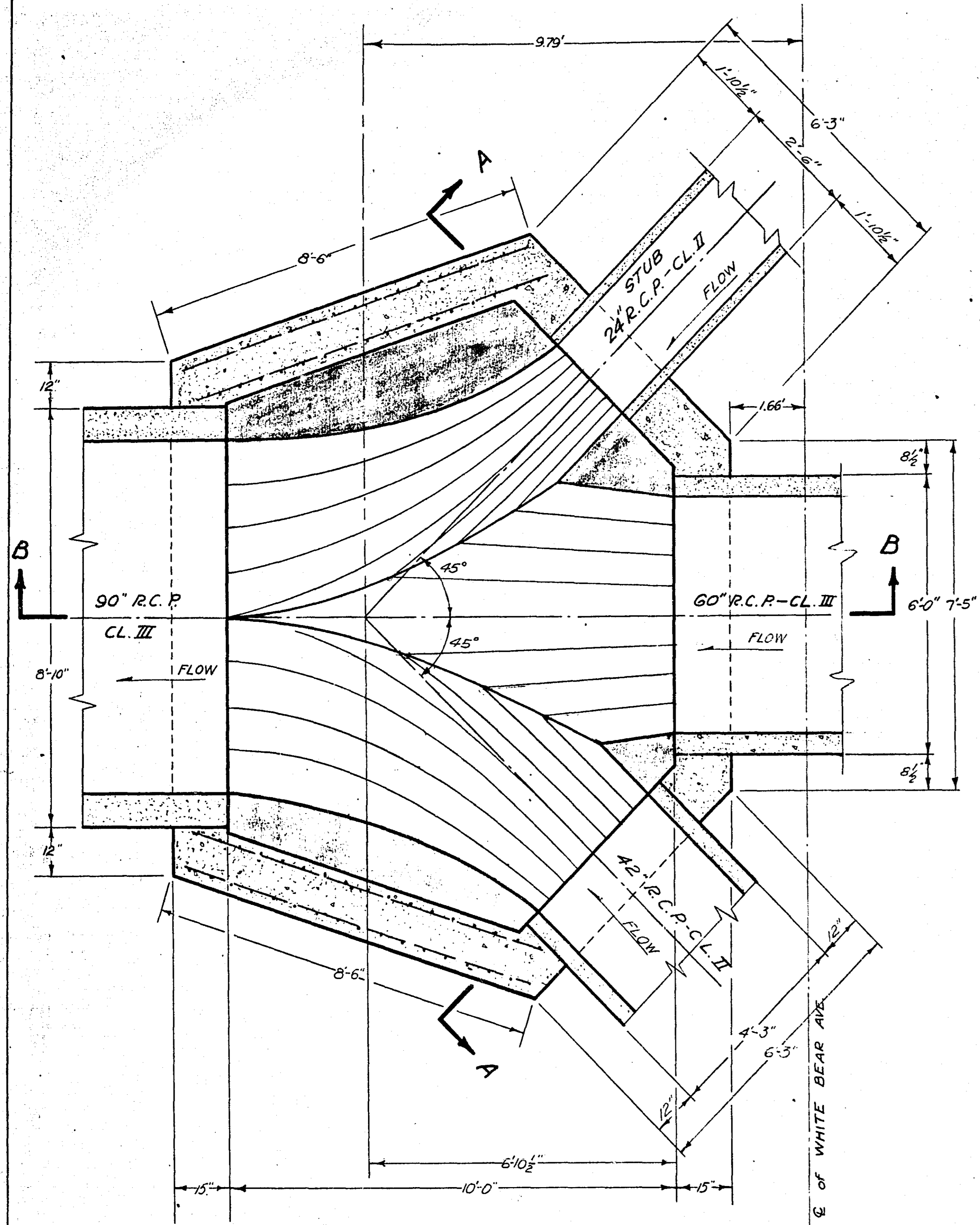
PEDESTAL MOUNTED SIGNALS



LEGEND OF SYMBOLS

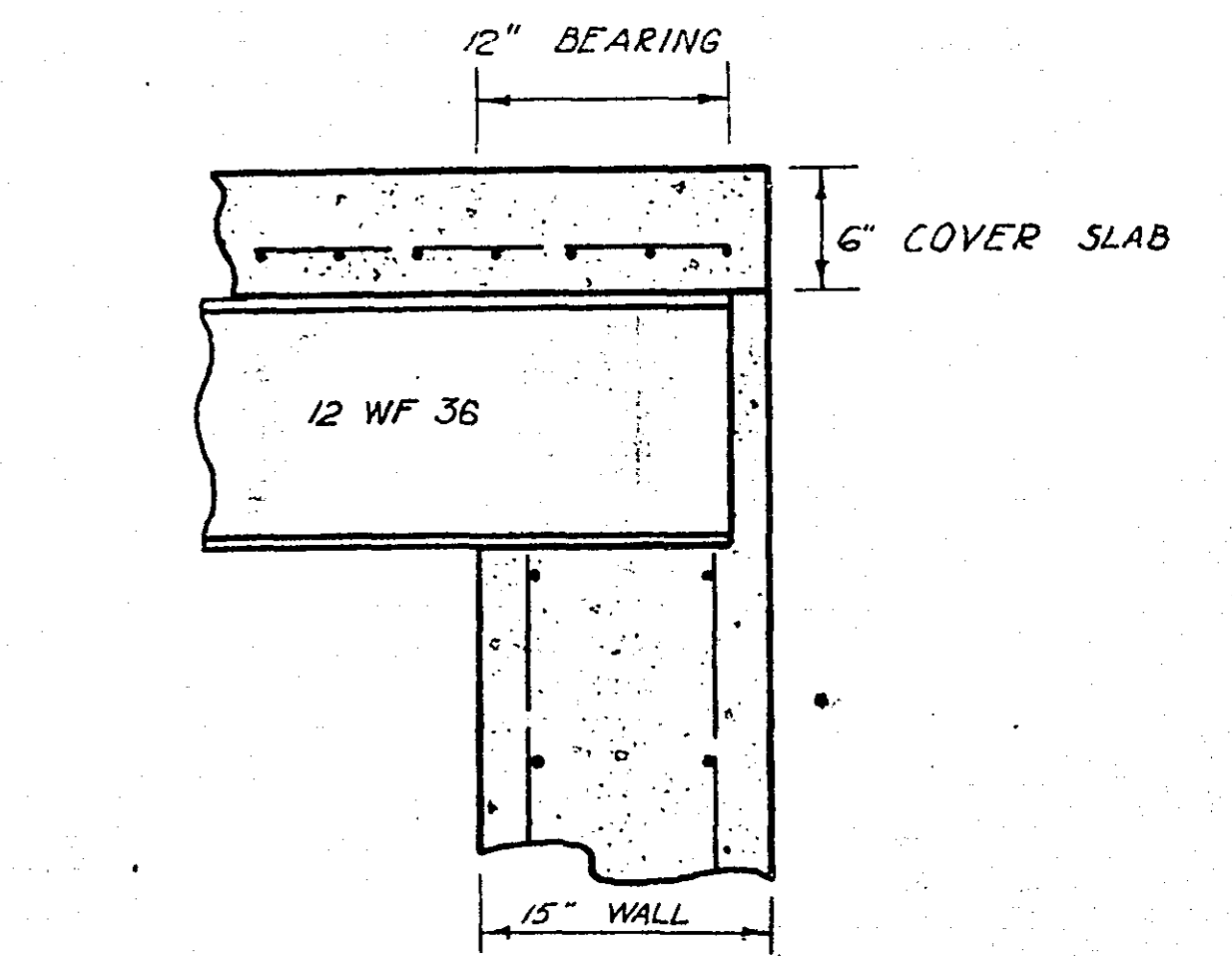
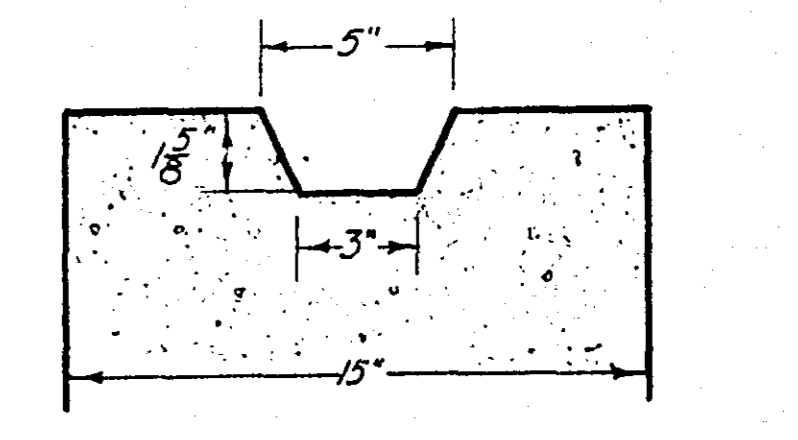
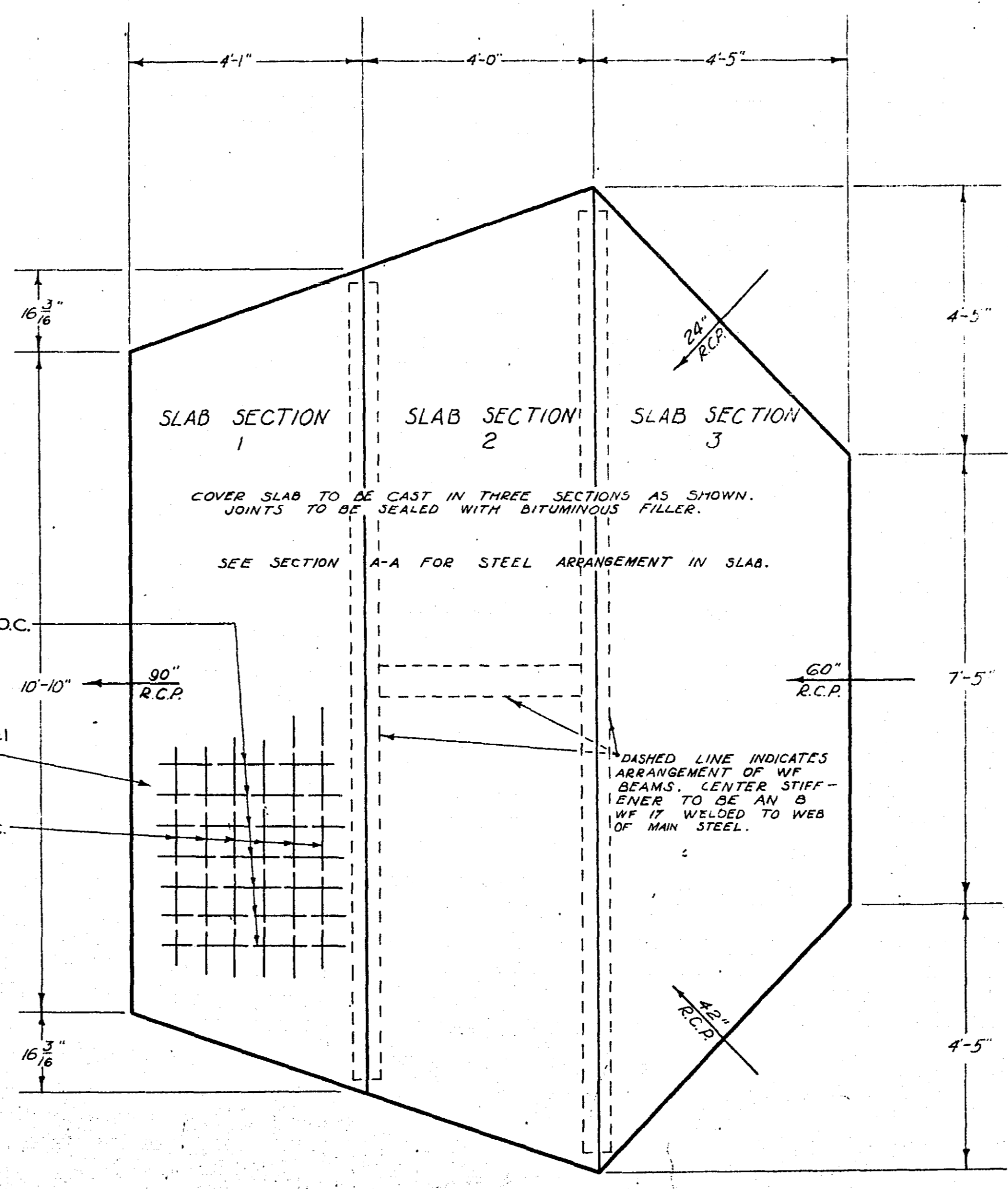
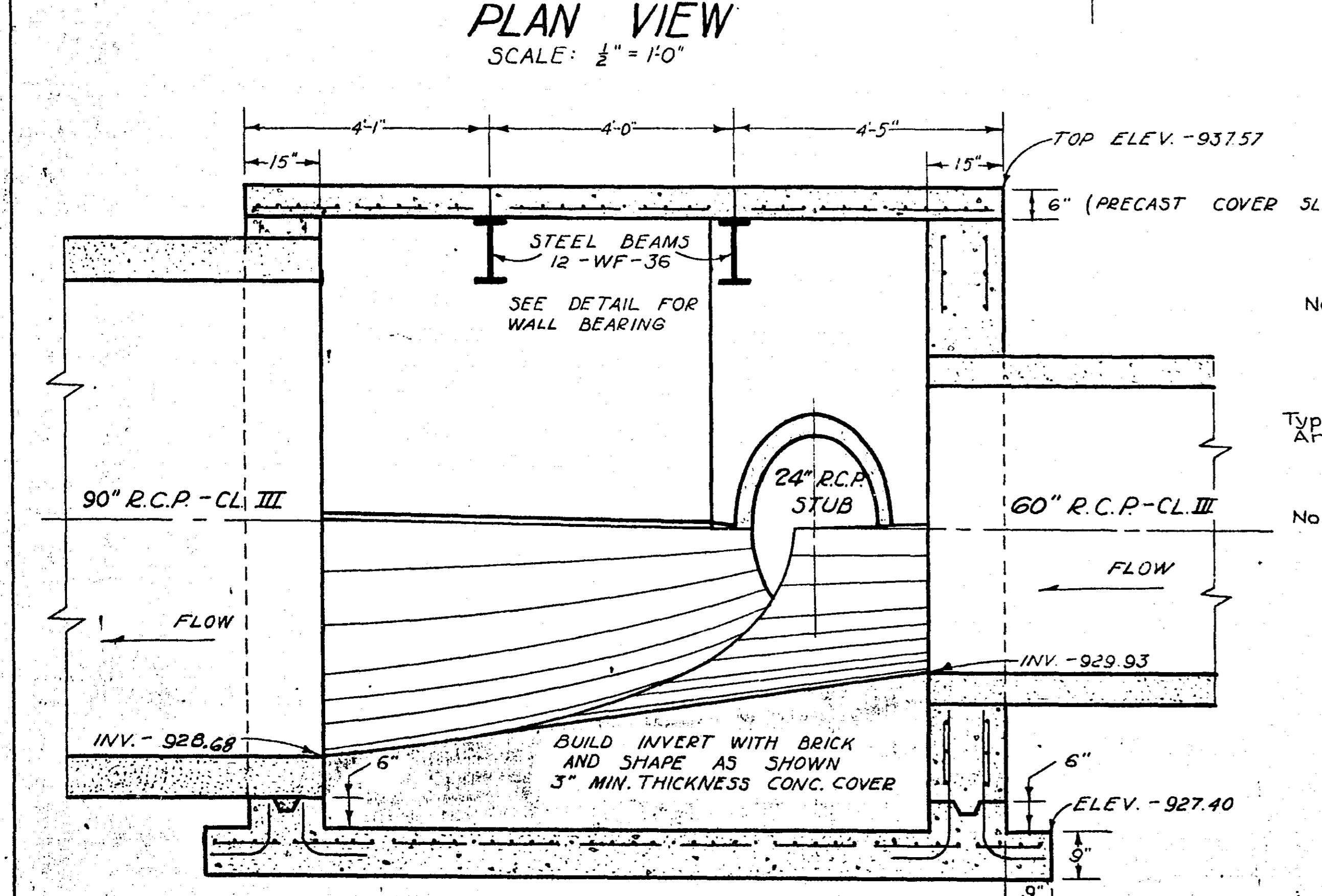
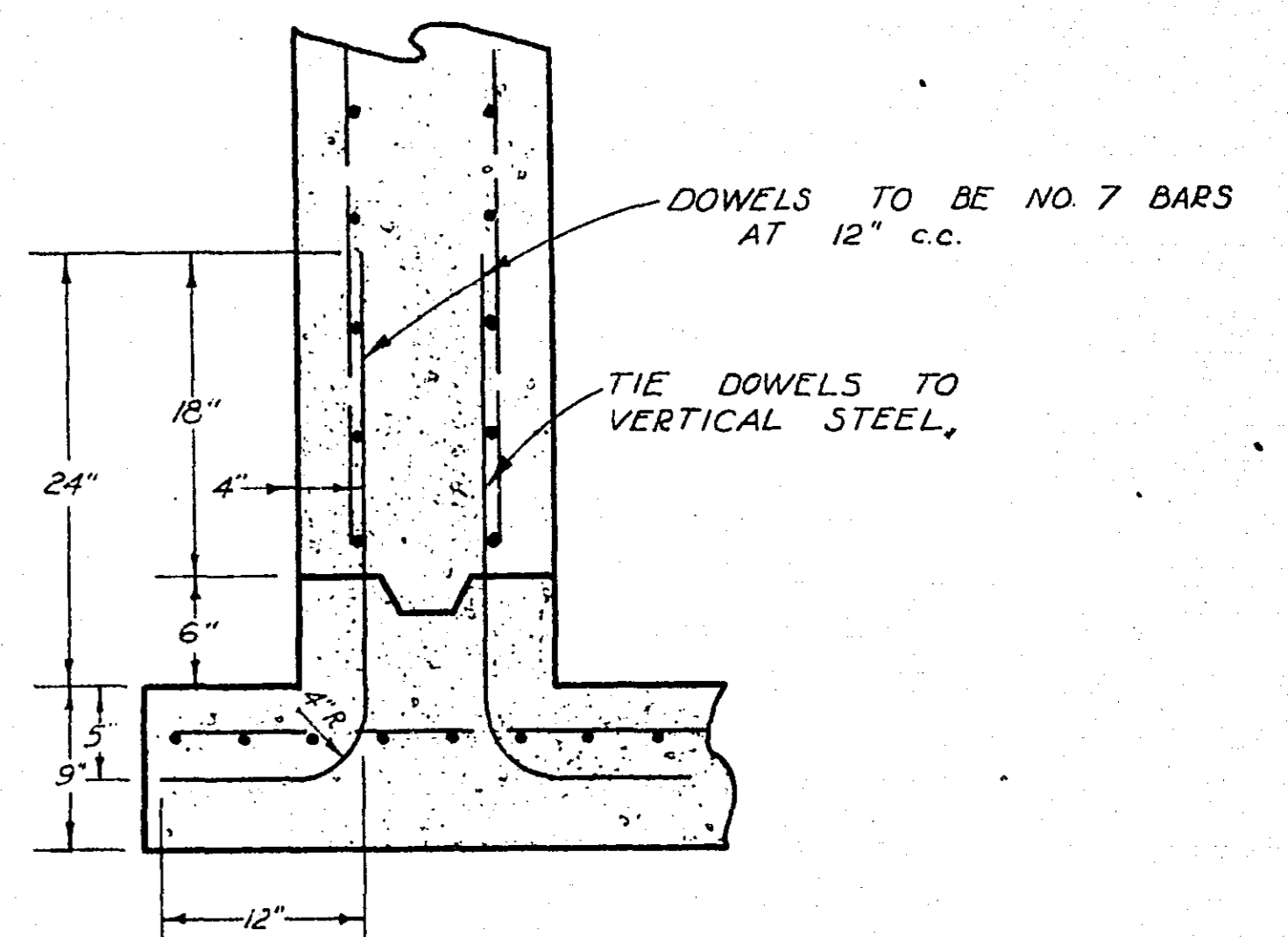
■	HANDHOLE (PULLBOX)
---	RIGID METALLIC CONDUIT (R.M.C.)
○	MAST ARM SIGNAL FOUNDATION
□	PEDESTAL FOUNDATION
●	PUSH BUTTON STATION

STATION	LOCATION	DESCRIPTION
74+67	RT. 27'	PULLBOX NO. 5
75+45	LT. 43'	PULLBOX NO. 17
75+52	RT. 27'	PULLBOX NO. 4
75+52	LT. 15'	PULLBOX NO. 3
75+52	LT. 44'	SIGNAL NO. 3
75+56	RT. 34'	SIGNAL NO. 4
75+60.5	LT. 53'	PULLBOX NO. 1
75+63	LT. 200'	PULLBOX NO. 2
76+12	LT. 50'	SIGNAL NO. 2
76+12	RT. 37'	PULLBOX NO. 6
76+15	LT. 52'	PULLBOX NO. 8
76+20	LT. 3.5'	PULLBOX NO. 9
76+20	RT. 27.5'	SIGNAL NO. 1
76+30	LT. 67.5'	PUSH BUTTON STATION
76+35	RT. 183'	PULLBOX NO. 7
76+90	LT. 57'	PULLBOX NO. 10



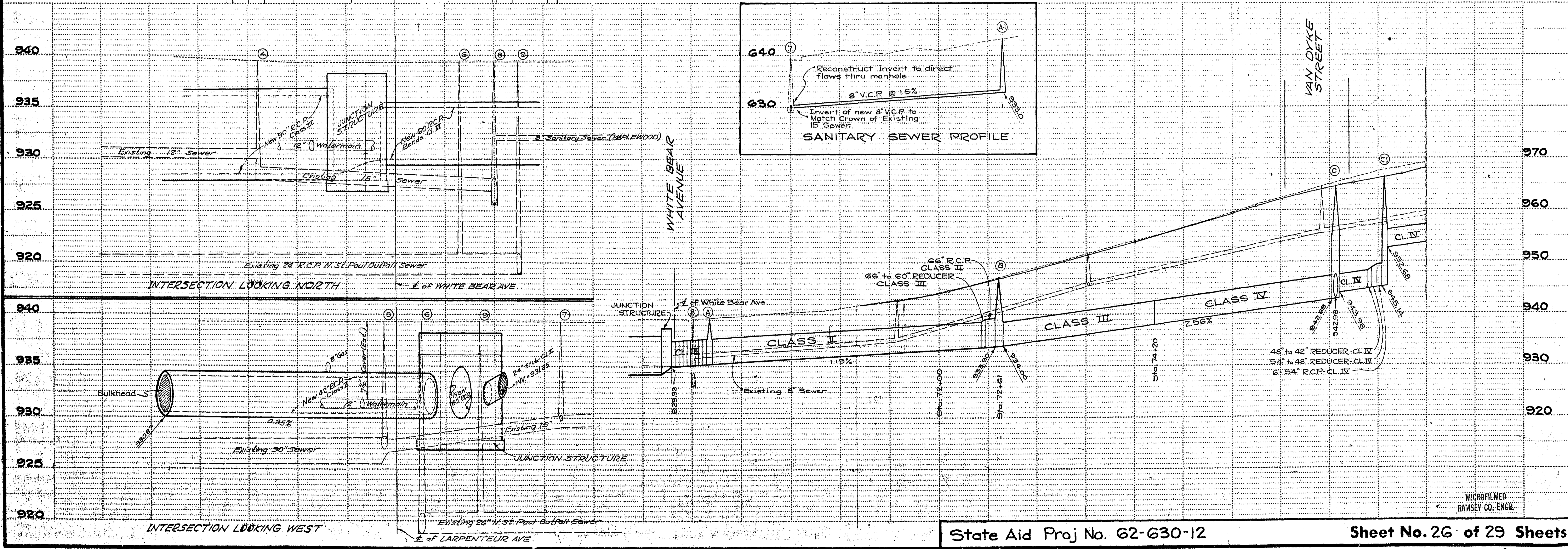
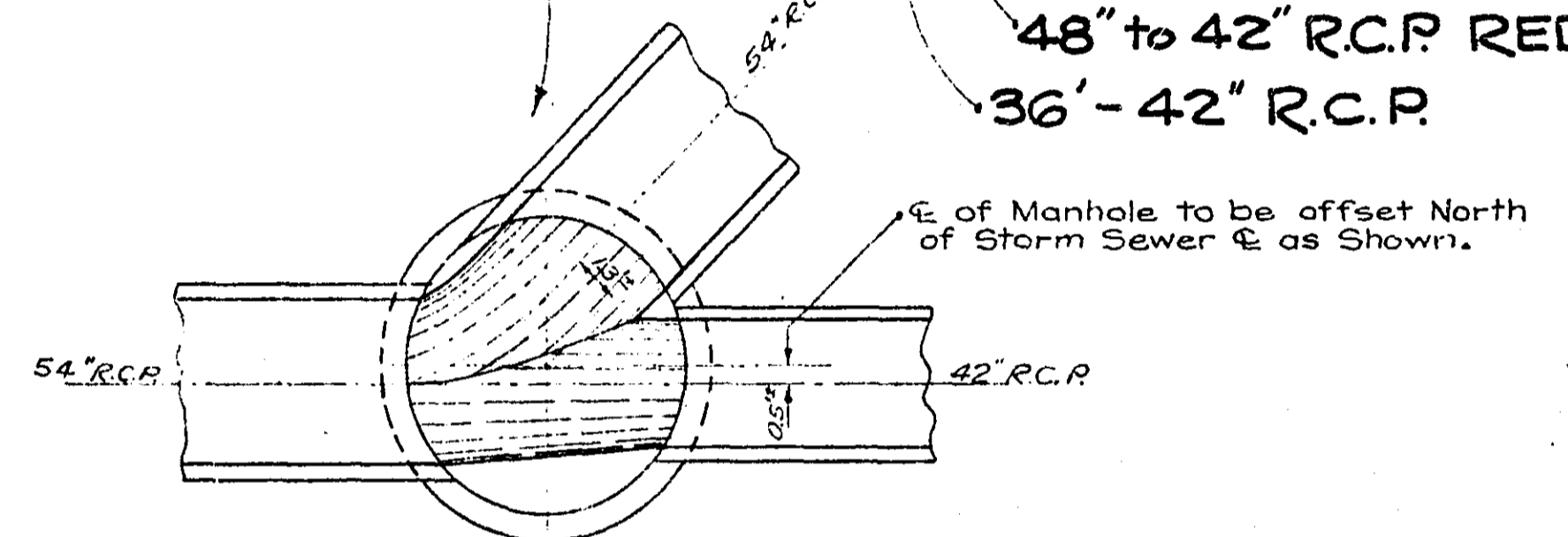
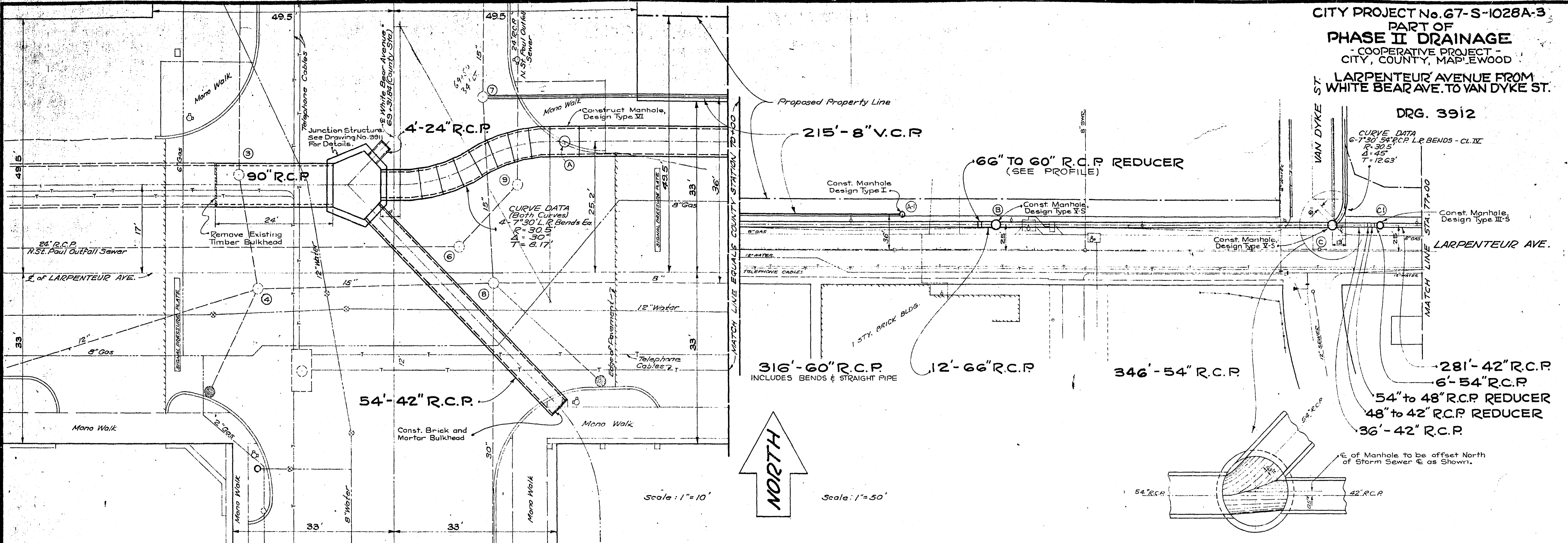
ELEVATION - SECTION A-A
 SCALE: 1/2" = 1'-0"

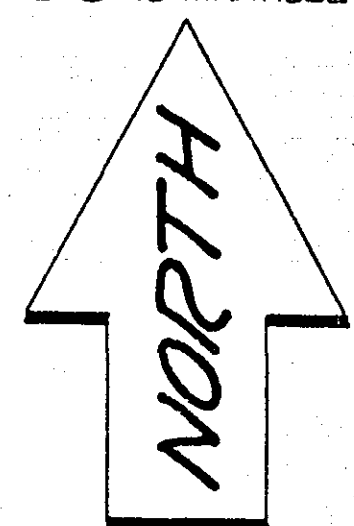
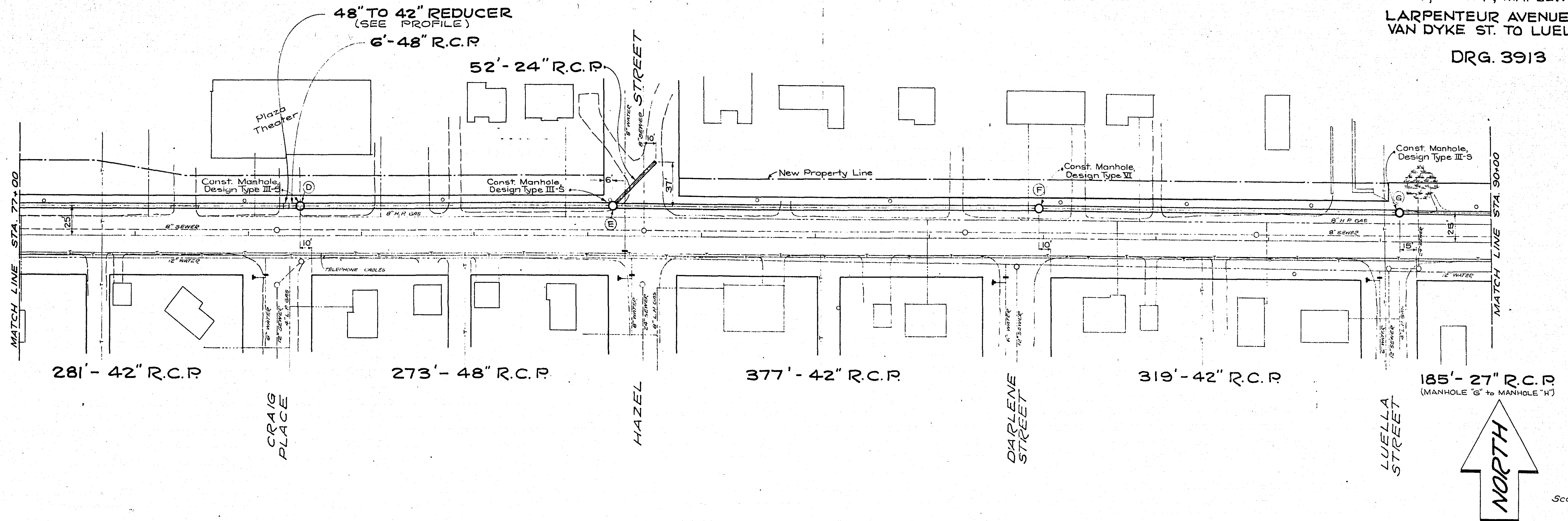
NOTE: CONCRETE FOR STRUCTURE TO BE MIX DESIGNATION 3400 OR EQUAL.



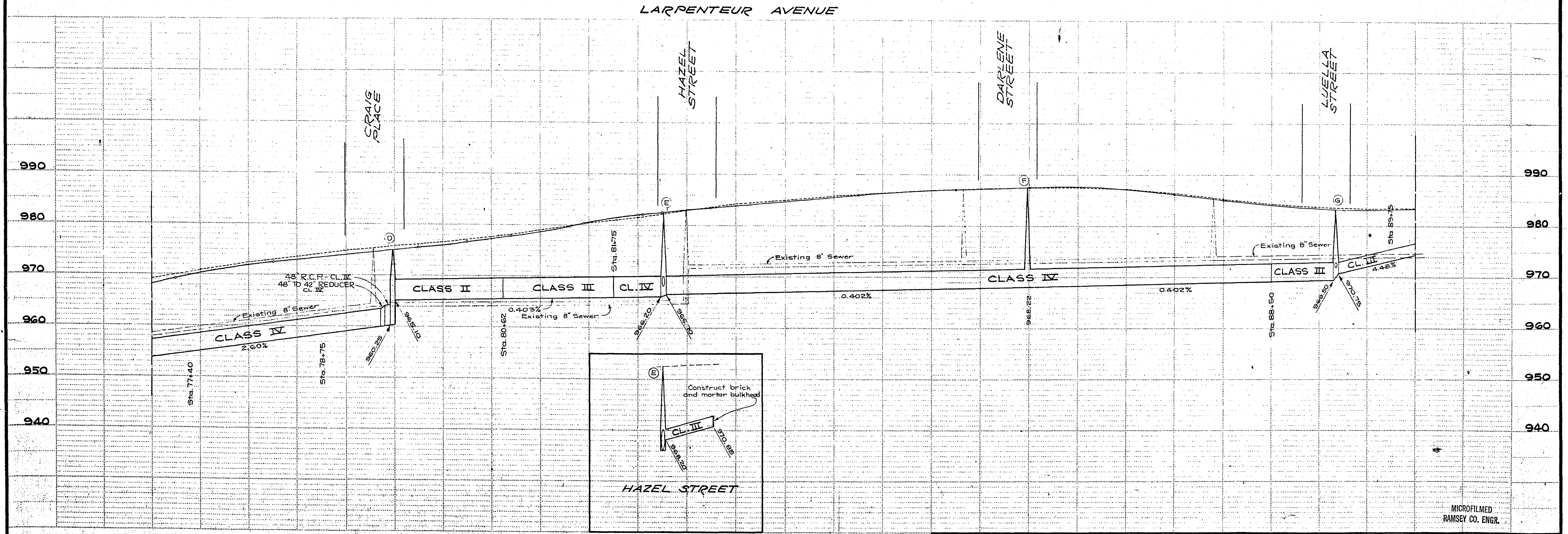
WALL BEARING DETAIL
 SCALE: 1" = 1'-0"

CURVE DATA
6-7°30' 54" R.C.P. L.R. BENDS - CL. IV
R = 30.5'
A = 45°
T = 12.63'

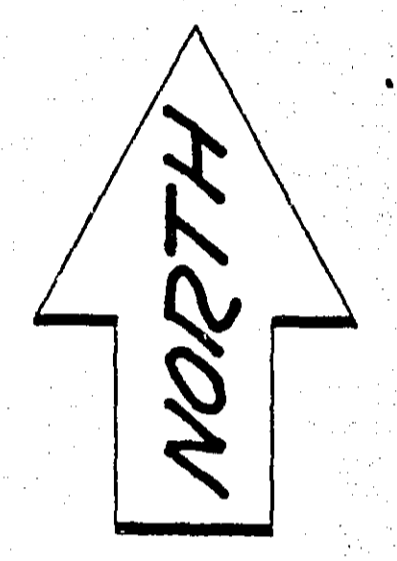
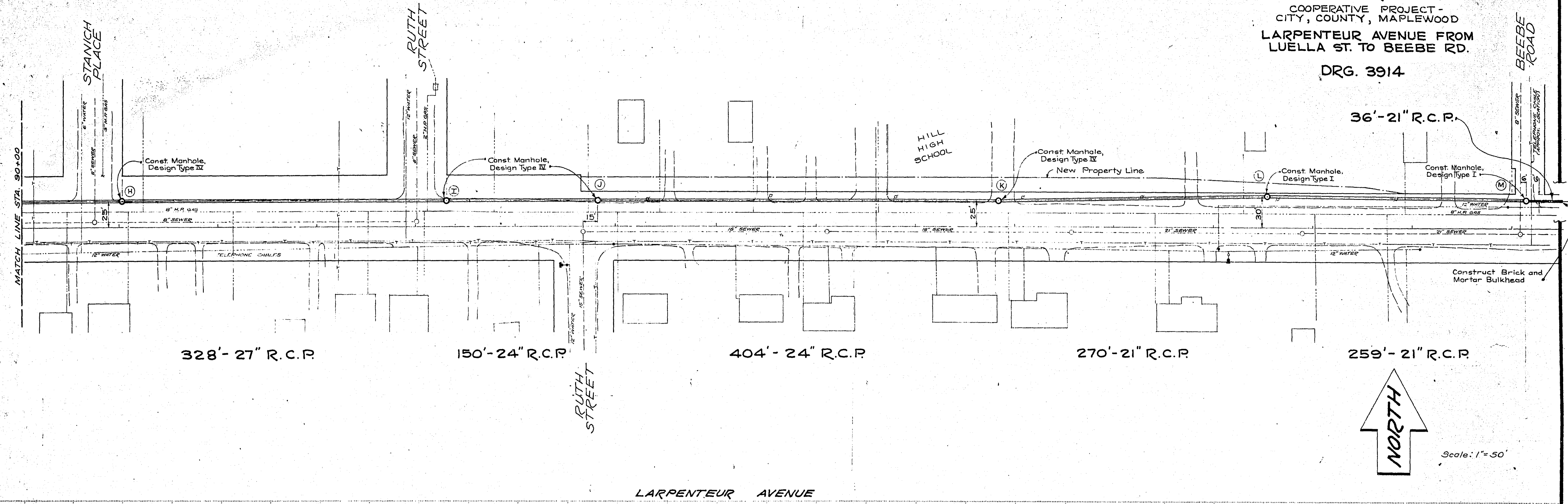




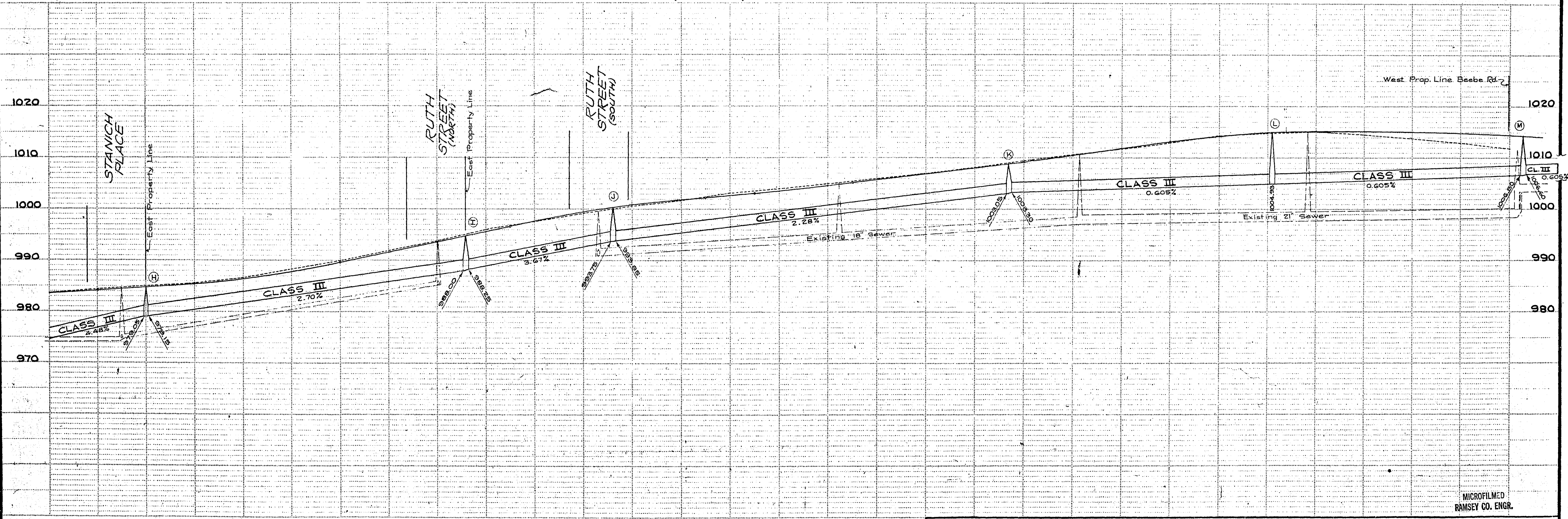
Scale: 1"=50'



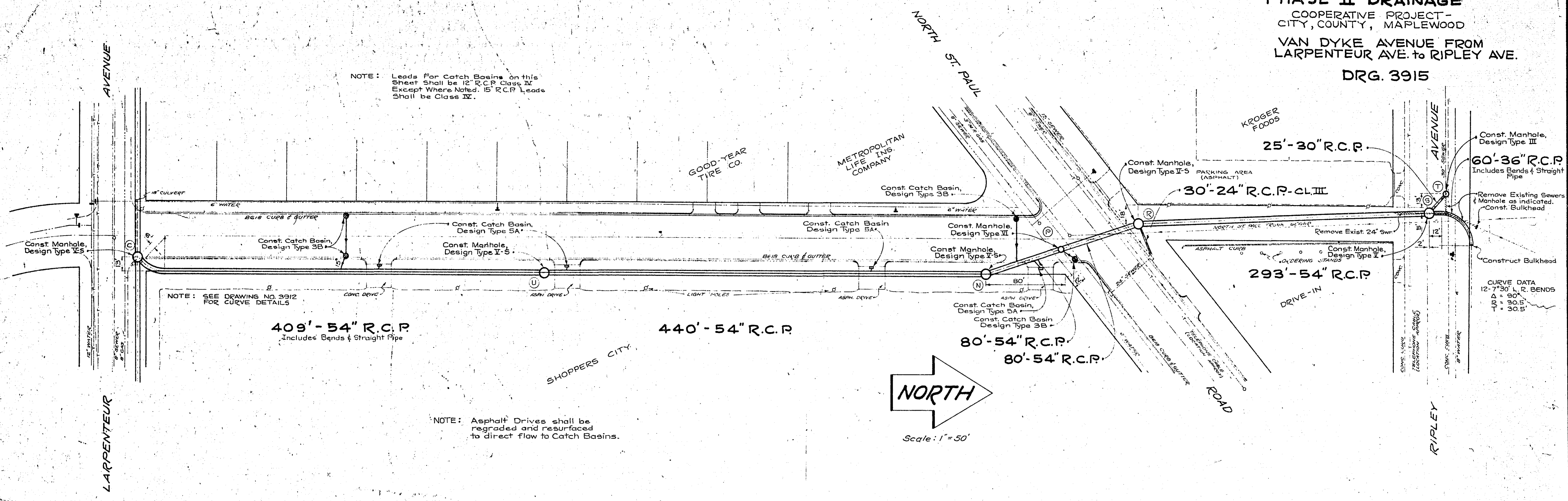
CITY PROJECT No. 67-6-1028A-3
 PART OF
PHASE II DRAINAGE
 COOPERATIVE PROJECT -
 CITY, COUNTY, MAPLEWOOD
 LARPEN TEUR AVENUE FROM
 LUELLA ST. TO BEEBE RD.
 DRG. 3914



Scale: 1" = 50'



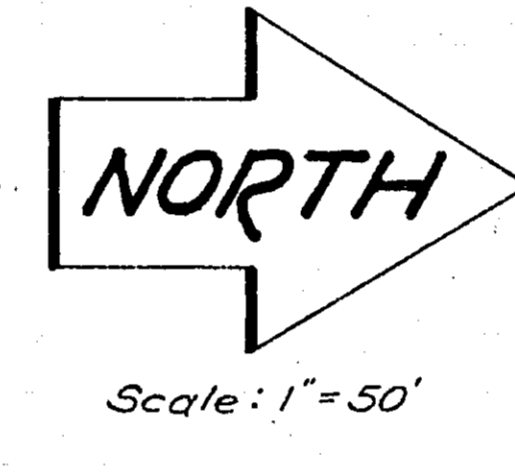
CITY PROJECT No. 67-S-1028A-3
 PART OF
PHASE II DRAINAGE
 COOPERATIVE PROJECT -
 CITY, COUNTY, MAPLEWOOD
 VAN DYKE AVENUE FROM
 LARPEUTEUR AVE. to RIPLEY AVE.
DRG. 3915



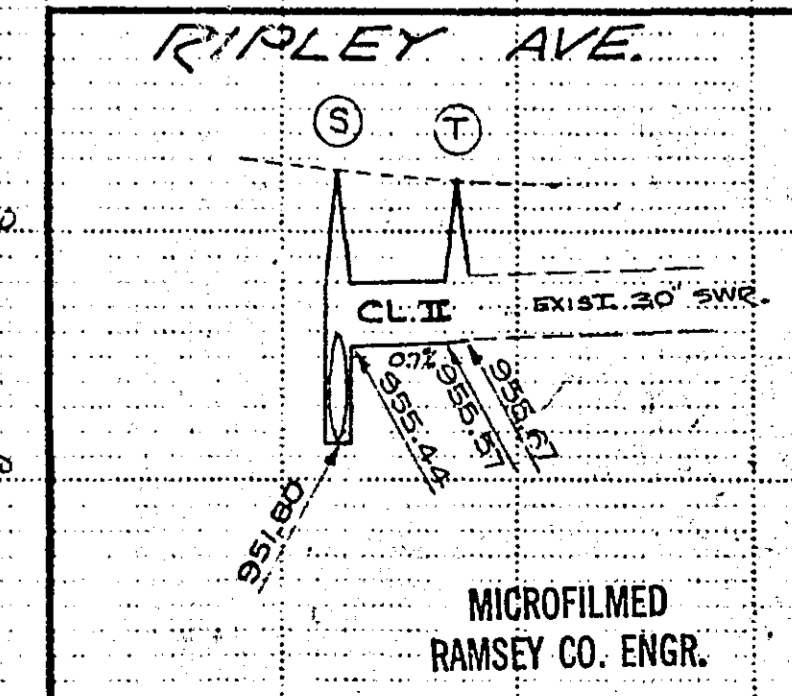
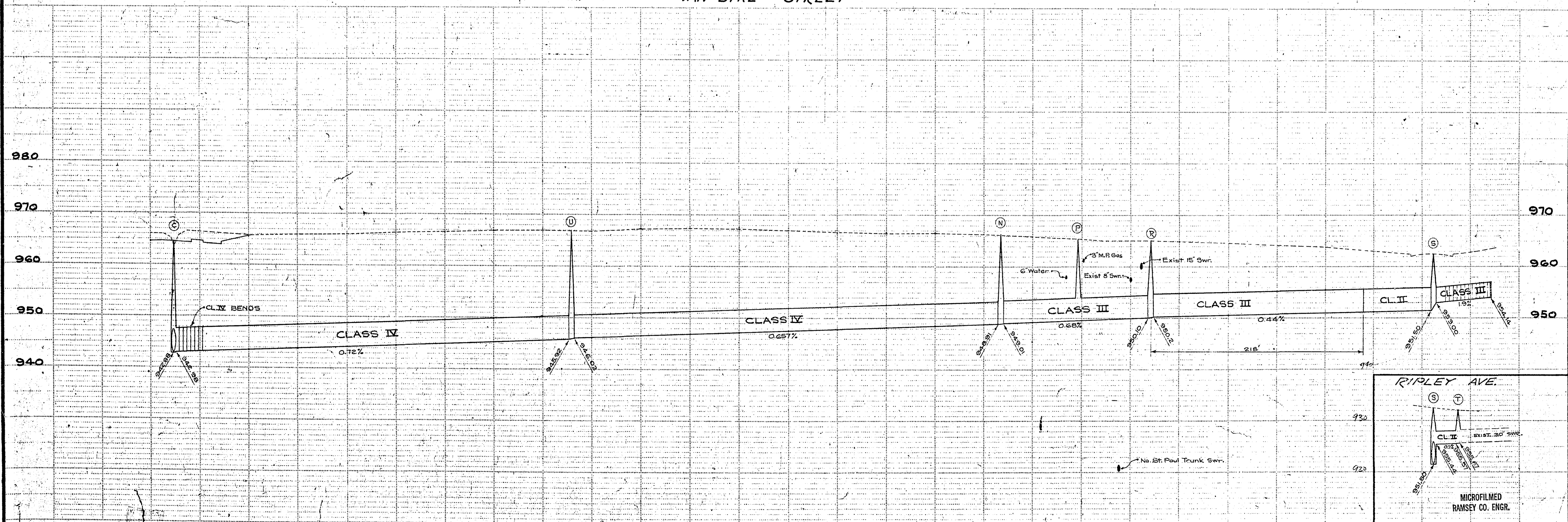
NOTE: Leads for Catch Basins on this Sheet shall be 12" R.C.P. Class IV. Except Where Noted, 15" R.C.P. Leads shall be Class IV.

NOTE: SEE DRAWING NO. 3912 FOR CURVE DETAILS

NOTE: Asphalt Drives shall be regraded and resurfaced to direct flow to Catch Basins.



CURVE DATA
 12-7'30" L.R. BENDS
 Δ = 90°
 R = 30.5'
 T = 30.5'



MICROFILMED
 RAMSEY CO. ENGR.

6870