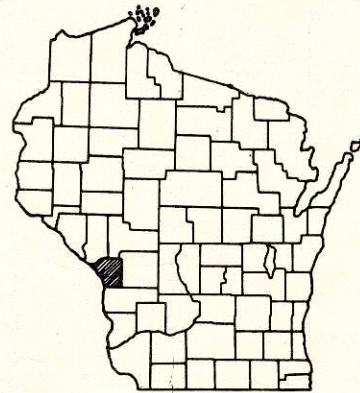


INDEX OF SHEETS

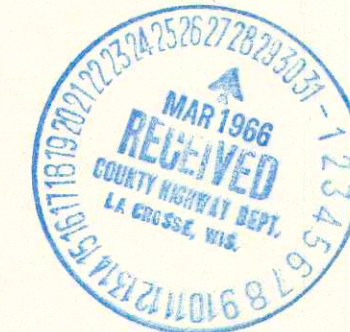
- SHEET NO. 1 TITLE
- SHEET NO. 2, 2.1 TYPICAL CROSS SECTIONS & MISCELLANEOUS DETAILS
- SHEET NO. 3 ESTIMATE OF QUANTITIES
- SHEET NO. 3A, 3B MISCELLANEOUS QUANTITIES
- SHEET NO. 4-4.2 RIGHT OF WAY PLAT
- SHEET NO. 5-12 PLAN AND PROFILE STA. 38+66.9 TO STA. 20+11.5
- SHEET NO. 13-13.5 STANDARD DETAILS
- SHEET NO. — DRAINAGE STRUCTURES
- SHEET NO. 14-32 CROSS SECTIONS



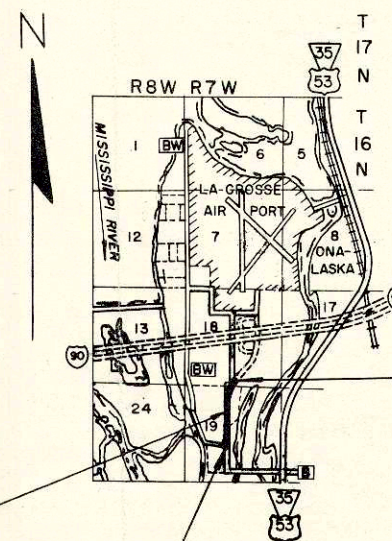
STATE OF WISCONSIN  
STATE HIGHWAY COMMISSION OF WISCONSIN

PLAN AND PROFILE OF PROPOSED  
U.S.H. 53 - LA CROSSE AIRPORT ROAD  
C.T.H. "B"  
LA CROSSE COUNTY  
PROJECT S 0616(3)

COUNTY AND HIGHWAY	ROUTE AND SECTION	CLASS AND AGREEMENT		S.P.R. REGION DIVISION	SHEET NUMBER	TOTAL SHEETS
		STATE	FEDERAL			
32.6	616.0		11.3	4 WIS.	1	32



PLAN 1 IN. = 20 FT.  
PROFILE HOR. 1 IN. = 20 FT. VERT. 1 IN. = 2 FT.  
CROSS SECTIONS HOR. 1 IN. = 5 FT. VERT. 1 IN. = 2 FT.



BEGINNING OF PROJECT I-90-1(15)O  
END OF PROJECT S 0616(3)  
STA. 20+11.5  
190' NORTH & 33' WEST OF THE SOUTH 1/4 CORNER  
SEC. 18, T 16 N, R 7 W.

STA. 54+80 BK. =  
STA. 0+00 AH.

BEGINNING OF PROJECT S 0616(3)  
STA. 38+66.9  
710' SOUTH & 310' WEST OF THE CENTER OF SEC. 19, T 16 N, R 7 W

LAYOUT  
SCALE 1 MILE

TOTAL NET LENGTH OF CENTERLINE = 0.686 MI.

CONVENTIONAL SIGNS

- |   |  |
|---|--|
| <p>STATE LINE.....</p> <p>COUNTY LINE.....</p> <p>TOWNSHIP OR RANGE LINE.....</p> <p>SECTION LINE.....</p> <p>NEW RIGHT OF WAY LINE.....</p> <p>PRESENT RIGHT OF WAY LINE.....</p> <p>WIRE FENCE { WOVEN.....<br/>                  BARBED.....</p> <p>LOT LINE.....</p> <p>CORPORATE OR CITY LIMITS.....</p> <p>PROPERTY LINE..... PL + 32.6</p> <p>TRAVELED WAY OR P.E.....</p> <p>RAILROADS.....</p> <p>BASE OR SURVEY LINE.....</p> | <p>CULVERTS IN PLACE.....</p> <p>CULVERTS REQUIRED.....</p> <p>DROP INLET.....</p> <p>POWER POLE.....</p> <p>TELEPHONE OR TELEGRAPH POLE.....</p> <p>RIGHT OF WAY MARKERS.....</p> <p>REFERENCE STAKE FOR HUBS ONLY.....</p> <p>MARSH.....</p> <p>HEDGE.....</p> <p>TREES.....</p> <p>GROUND ELEVATION..... DATUM LINE 73.9</p> <p>GRADE ELEVATION..... DATUM LINE 73.16</p> |
|---|--|

APPROVED FOR LA CROSSE COUNTY BY:  
DATE 17/11/65 *Conrad Smith*  
COMMISSIONER

STATE HIGHWAY COMMISSION OF WISCONSIN  
MADISON, WIS.

SURVEYOR G.F.F. & D.E.K. NOTE BOOK L.L.  
DIVISION COMPUTER J.B.K. M.O. CHECKER W.H.B.  
DISTRICT CHECKER G.W.P. CORRECT

CORRECT:  
DATE 2-21-66 *E.J. Borkil*  
DISTRICT ENGINEER

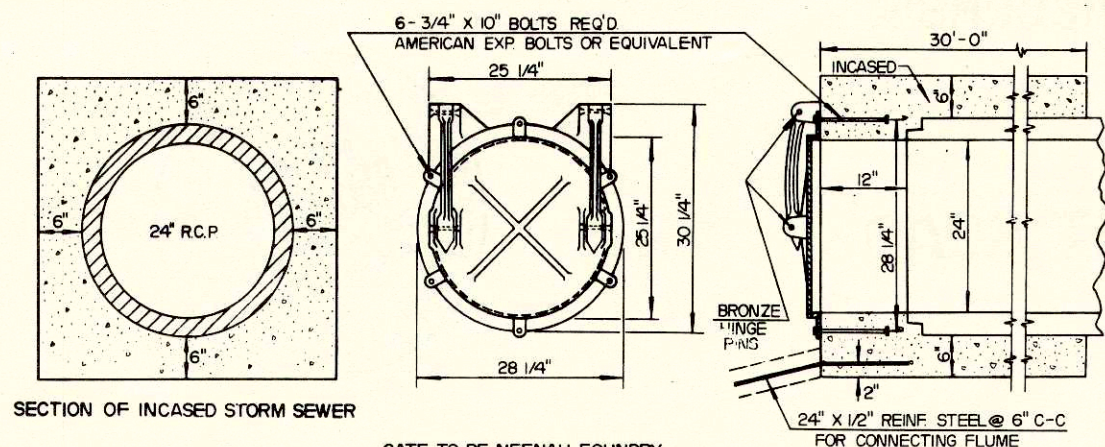
RECOMMENDED FOR APPROVAL:  
DATE 3/1/66 *E.J. Borkil*  
CHIEF DESIGN ENGINEER

APPROVED:  
DATE 3/3/66 *A. Summitt*  
STATE HIGHWAY ENGINEER

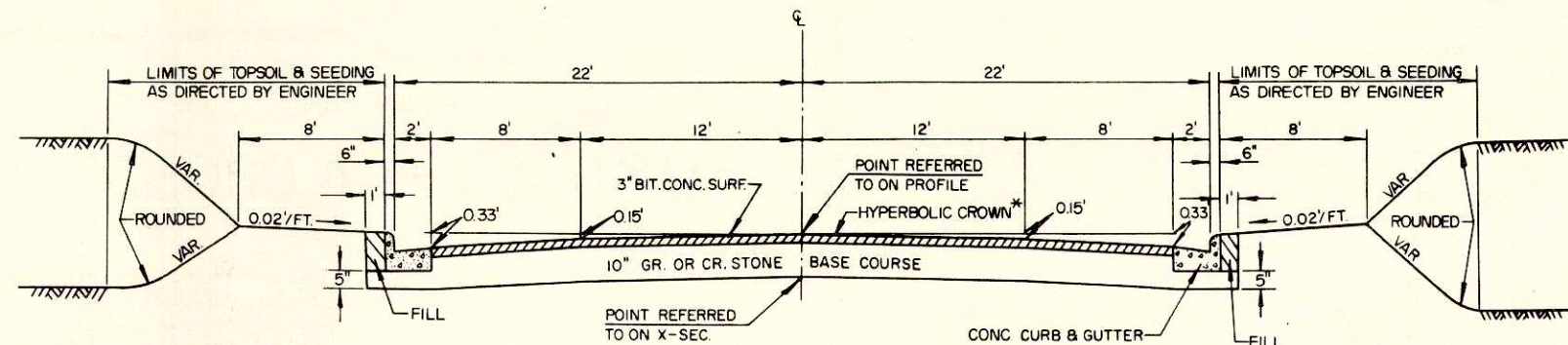
DEPARTMENT OF COMMERCE  
BUREAU OF PUBLIC ROADS

APPROVED: \_\_\_\_\_  
DATE \_\_\_\_\_  
DIVISION ENGINEER

v. N.H.S.

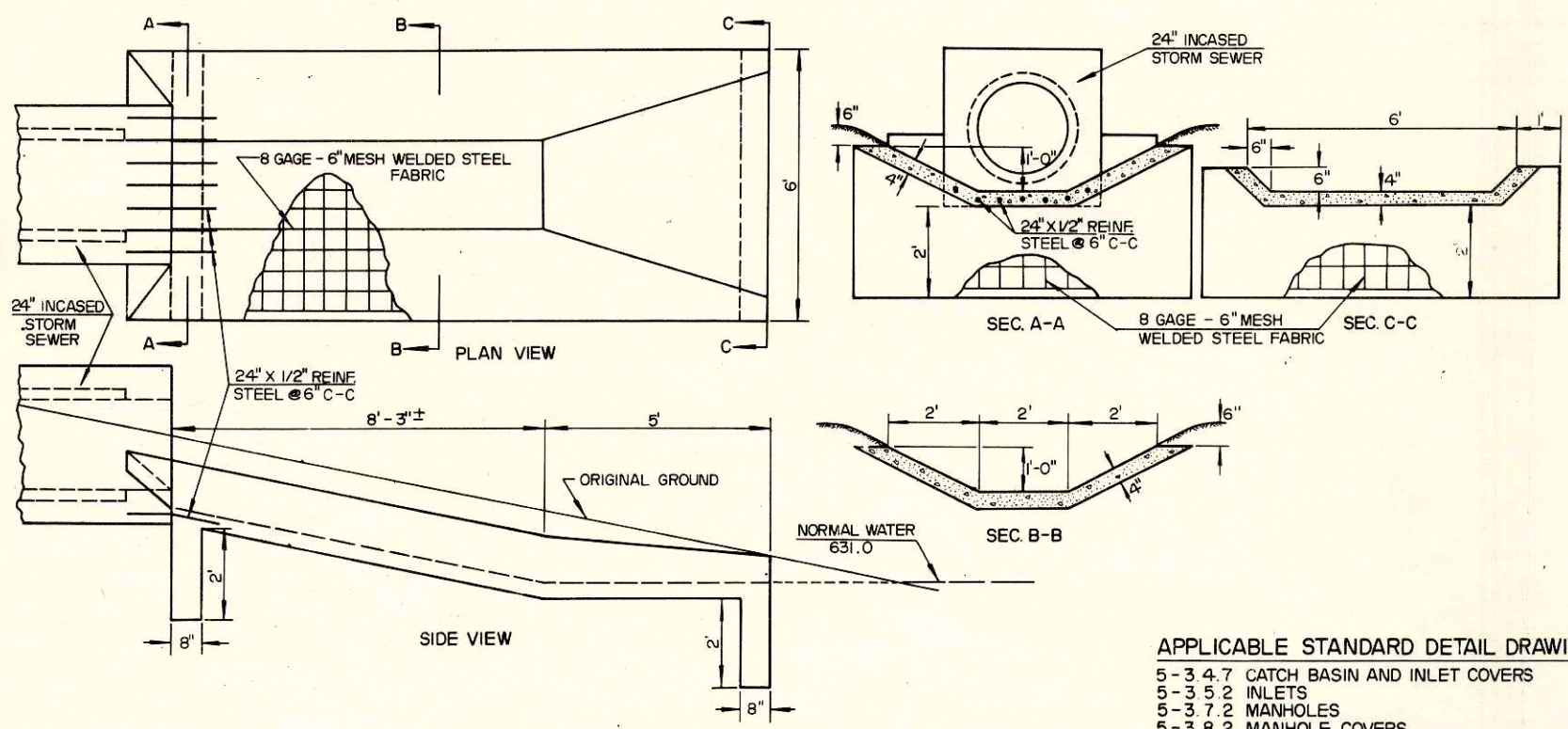


SECTION OF INCASED STORM SEWER  
 GATE TO BE NEENAH FOUNDRY  
 CATALOG "R" NO. R-5050-SF 24 OR EQUAL  
**AUTOMATIC DRAINAGE GATE DETAIL**  
 STA. 7"SS"+97



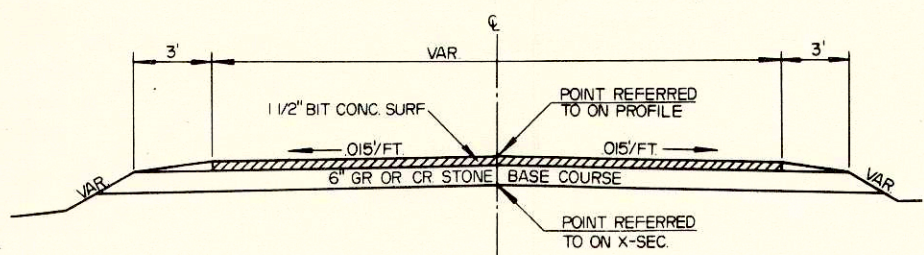
**TYPICAL FINISHED SECTION**  
 STA. 38+66.9 - 54+80 BK.  
 STA. 0+00 AH. - 20+11.5

\*HYPERBOLIC CROWN  
 $Y = \sqrt{\frac{X^2}{10} + 9} - 3$   
 Y = CROWN (INCHES)  
 X = DISTANCE (FEET)

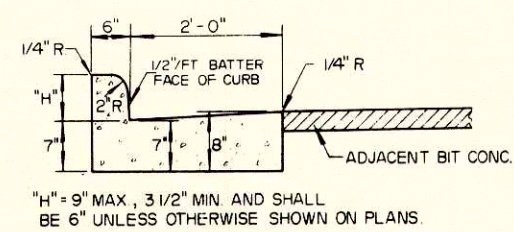


**STORM SEWER OUTFALL FLUME**  
 STA. 7"SS"+97 - 8"SS"+10

- APPLICABLE STANDARD DETAIL DRAWINGS**
- 5-3 4.7 CATCH BASIN AND INLET COVERS
  - 5-3 5.2 INLETS
  - 5-3 7.2 MANHOLES
  - 5-3 8.2 MANHOLE COVERS
  - 6-2 6.4 APRON ENDWALLS FOR CULVERT PIPE AND PIPE ARCH
  - 7-4.1.4 CONSTRUCTION BARRICADE

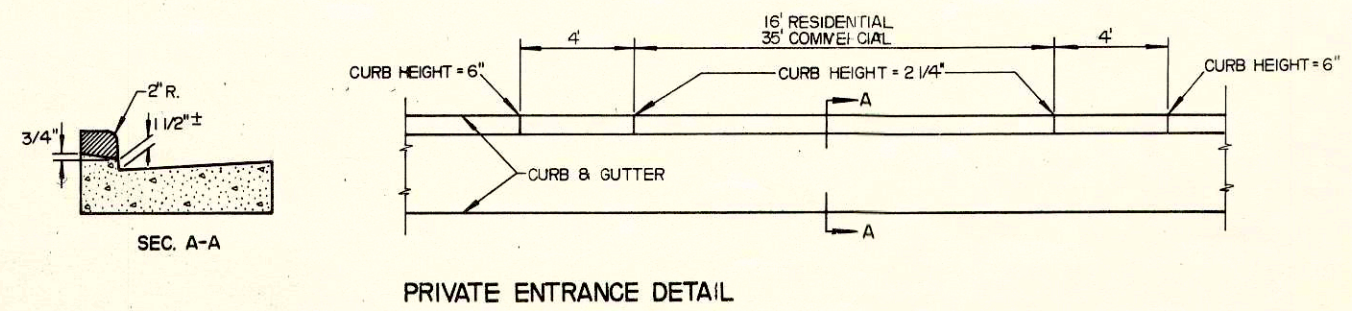


**TYPICAL SIDELINE TAPER SECTION**



**CONCRETE CURB & GUTTER**

**CURB & GUTTER NOTES**  
 DETAILS OF CONSTRUCTION AND MATERIALS NOT SHOWN ON THIS DRAWING SHALL CONFORM TO THE PERTINENT REQUIREMENTS OF THE STANDARD SPECIFICATIONS AND THE APPLICABLE SPECIAL PROVISIONS.  
 JOINTS SHALL NOT BE SEALED IN CONCRETE CURB AND GUTTER.

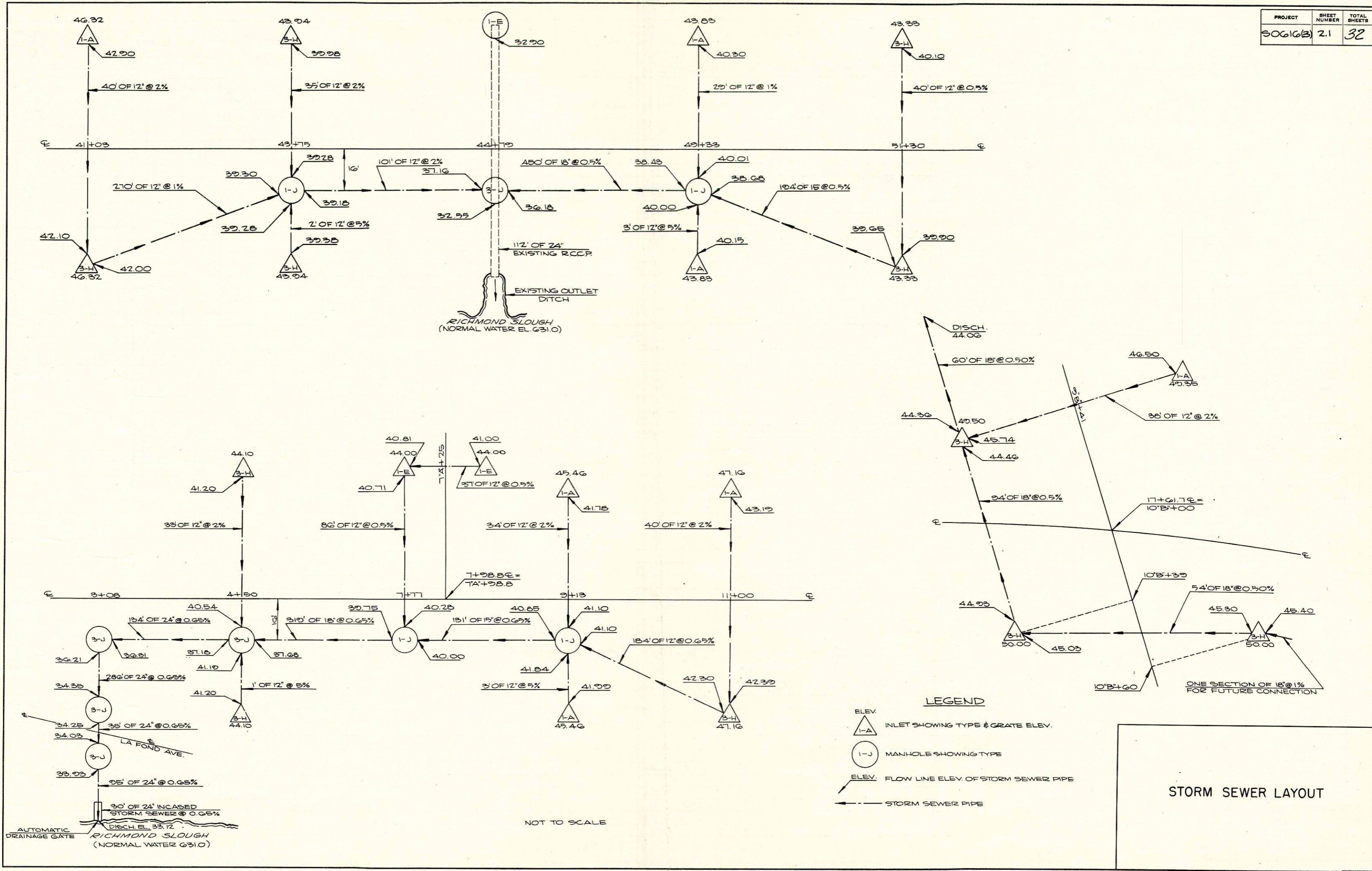


**PRIVATE ENTRANCE DETAIL**

**GENERAL NOTES**  
 WHEN THE QUANTITY OF THE ITEMS OF BASE OR SURFACE COURSE IS MEASURED FOR PAYMENT BY THE TON OR CUBIC YARD, THE DEPTH OR THICKNESS OF THE COURSE SHOWN ON THE PLANS IS APPROXIMATE AND THE ACTUAL THICKNESS WILL DEPEND ON THE DISTRIBUTION OF THE MATERIAL AS DIRECTED BY THE ENGINEER.  
 ALL BEARINGS SHOWN ON PLANS ARE TRUE BEARINGS.  
 THE EXACT LOCATION OF PRIVATE ENTRANCES TO BE DETERMINED IN THE FIELD BY THE ENGINEER.  
 TOPSOIL SHALL BE PLACED TO AN APPROXIMATE DEPTH OF 3" AT TIME OF PLACING

**TYPICAL CROSS SECTIONS AND MISCELLANEOUS DETAILS**

PROJECT	SHEET NUMBER	TOTAL SHEETS
50616(B)	2.1	32



STORM SEWER LAYOUT



# DETAIL SUMMARY OF MISCELLANEOUS QUANTITIES

CLEARING AND GRUBBING		CLEARING AND GRUBBING (Cont'd)	
Station	Location	Clearing I.D.	Grubbing I.D.
42+00 - 43+00	Lt.	50	50
43+24	43' Lt.	16	16
47+78	32' Lt.	12	12
47+99	32' Lt.	10	10
48+20	31' Lt.	13	13
48+41	31' Lt.	9	9
49+05	35' Rt.	6	6
51+13	35' Rt.	10	10
51+41	34' Lt.	13	13
51+57	39' Rt.	10	10
51+71	35' Lt.	18	18
52+14	38' Rt.	7	7
52+68	33' Lt.	12	12
53+65	33' Rt.	11	11
53+81	34' Rt.	12	12
54+09	30' Rt.	6	6
54+09	34' Rt.	6	6
54+43	34' Lt.	8	8
54+45	36' Lt.	8	8
54+46	34' Lt.	8	8
54+49	34' Rt.	18	18
54+70	34' Rt.	18	18
0+36	35' Lt.	6	6
0+43	33' Lt.	8	8
0+43	27' Rt.	20	20
1+37	33' Lt.	22	22
2+29	35' Rt.	6	6
3+18	33' Lt.	20	20
3+80	35' Lt.	16	16
4+45	34' Lt.	7	7
5+09	30' Rt.	5	5
6+64	36' Rt.	12	12
6+81	36' Rt.	8	8
6+98	31' Lt.	8	8
7+17	32' Lt.	5	5
7+50	36' Rt.	10	10
8+52	36' Rt.	14	14
9+76	39' Rt.	9	9
10+07	39' Rt.	7	7
10+53	35' Rt.	14	14
10+76	39' Rt.	6	6
11+05	40' Rt.	11	11
11+34	34' Rt.	8	8

Station	Location	Clearing I.D.	Grubbing I.D.	Station	Location	Clearing I.D.	Grubbing I.D.
11+35	33' Rt.	8	8	10" B"	63	10	10
11+36	34' Rt.	8	8	10" B"	74	10	10
11+62	27' Rt.	7	7	10" B"	89	10	10
11+91	36' Rt.	10	10	18+13		15	15
12+11	32' Rt.	4	4	18+27		15	15
12+16	32' Rt.	7	7	18+29		15	15
12+22	33' Rt.	5	5	18+42		15	15
13+74	38' Lt.	8	8	18+50		13	13
15+46	39' Lt.	5	5	18+57		4	4
15+60	39' Lt.	5	5	18+76		4	4
15+81	38' Lt.	23	23	18+87		16	16
15+98	38' Lt.	22	22	18+98		19	19
16+12	39' Lt.	26	26	19+06		15	15
10" B"	63	14	14	19+15		14	14
10" B"	74	16	16	19+55		15	15
10" B"	89	25	25	19+61		4	4
18+13		4	4	19+62		11	11
18+27		15	15	19+68		12	12
18+29		15	15	19+76		6	6
18+42		4	4	19+76		7	7
18+50		4	4	19+89		14	14
18+57		5	5	19+92		5	5
18+76		13	13	20+14		10	10
18+87		4	4	20+19		14	14
18+98		16	16	20+26		9	9
19+06		19	19	20+36		7	7
19+15		15	15	3" SS"	66	14	14
19+55		4	4	4" SS"	13	6	6
19+61		11	11	4" SS"	27	11	11
19+62		12	12	4" SS"	62	8	8
19+68		6	6				
19+76		7	7				
19+76		14	14				
19+89		5	5				
19+92		10	10				
20+14		14	14				
20+19		9	9				
20+26		7	7				
20+36		14	14				
3" SS"	66	6	6				
4" SS"	13	11	11				
4" SS"	27	8	8				
4" SS"	62	11	11				

### OBLITERATING OLD ROAD

Sta. - Sta.	Location	Station	Each
10" B" +14 - 11" B" +34		10+24	1
		44+45	1
		48+61	1
		49+76	1
		53+77	1
		2+97	1
		5+35	1
		7+99	1
		11+99	1
		16+00	1
		9" B" +64	1

### REMOVING MANHOLES

Station	Location	Depth	Each
6" SS" +31	2' Rt.	3'-6"	1
6" SS" +59	7' Lt.	4'-3"	1

### REMOVING SEPTIC TANKS

Sta.	Location	Each
18+73	Rt.	1

### AUTOMATIC DRAINAGE GATE

Sta.	Location	Each
7" SS" +97	Storm Sewer Outfall	1

### CONCRETE SLOPE PAVING

Sta. - Sta.	Location	S.Y.
7" SS" +97 - 8" SS" +10	Storm Sewer Outfall	10

### CONCRETE CURB AND GUTTER

Sta. - Sta.	Location	L.F.
38+66.9 - 49+33	Lt.	1,066
38+66.9 - 49+33	Rt.	1,066
Elm St. Radius	S.W.	39
Elm St. Radius	N.W.	39
La Fond Ave. Radius	S.E.	27
La Fond Ave. Radius	N.E.	24
50+09 - 17+29	Rt.	2,200
50+19 - 7+61	Lt.	1,222
Tellin Ct. Radius	S.W.	31
Tellin Ct. Radius	N.W.	31
8+37 - 16+97	Lt.	860
Hinkley Rd. Radius	S.W.	48
Hinkley Rd. Radius	N.W.	31
Hinkley Rd. Radius	S.E.	36
Hinkley Rd. Radius	N.E.	54
17+89 - 20+11.5	Lt.	223
18+16 - 20+11.5	Rt.	166

### ADJUSTING MANHOLE COVERS

Station	Location	Each
10+24	Centerline	1
44+45	Centerline	1
48+61	Centerline	1
49+76	Centerline	1
53+77	Centerline	1
2+97	Centerline	1
5+35	Centerline	1
7+99	Centerline	1
11+99	Centerline	1
16+00	Centerline	1
9" B" +64	4' Rt.	1

PROJECT	SHEET NO.	TOTAL SHEETS
S 0616(3)	3A	32

# DETAIL SUMMARY OF MISCELLANEOUS QUANTITIES

## INLETS, MANHOLES AND CONNECTIONS

Station	Location	Inlet Type	Manhole Type	Grate Elev.	Disch. Elev.	Depth	R.C.P. Class III Storm Sewer Length	Sewer Size	Slope of Pipe in Percent
41+03	22' Lt.	1-A		46.32	42.90	2'-7"	40'	12"	2.0
41+03	22' Rt.	3-H		46.32	42.00	3'-6"	270'	12"	1.0
43+75	22' Lt.	3-H		43.94	39.98	3'-2"	35'	12"	2.0
43+75	16' Rt.		1-J	44.16	39.18	3'-10"	101'	12"	2.0
43+75	22' Rt.	3-H		43.94	39.38	3'-9"	2'	12"	5.0
44+79	50' Lt.		1-E	40.50	32.90	6'-7"	-	-	-
44+79	16' Rt.		3-J	44.48	32.55	10'-9"	-	-	-
49+33	22' Lt.	1-A		3.83	40.30	2'-8"	29'	12"	1.0
49+33	16' Rt.		1-J	44.05	38.43	4'-6"	450'	18"	0.5
49+33	22' Rt.	1-A		43.83	40.15	2'-10"	3'	12"	5.0
51+30	22' Lt.	3-H		43.33	40.10	2'-5"	40'	12"	0.5
51+30	22' Rt.	3-H		43.33	39.65	2'-10"	194'	15"	0.5
3+08	16' Rt.		3-J	45.08	36.21	7'-8"	286'	24"	0.65
6"SS" +24	5' Lt.		3-J	40.30	34.25	4'-11"	35'	24"	0.65
6"SS" +68	5' Lt.		3-J	41.10	33.21	6'-0"	95'	24"	0.65
7"SS" +67 to 7"SS" +97									
4+50	22' Lt.	3-H		44.10	41.20	2'-1"	33'	12"	2.0
4+50	16' Rt.		3-J	44.31	37.18	6'-0"	134'	24"	0.65
4+50	22' Rt.	3-H		44.10	41.20	2'-1"	1'	12"	5.0
7+77	16' Rt.		1-J	46.00	39.75	5'-1"	319'	18"	0.65
7"A" +25	20' Lt.	1-E		44.00	41.00	2'-0"	37'	12"	0.5
7"A" +25	20' Rt.	1-E		44.00	40.71	2'-3"	86'	12"	0.5
9+13	22' Lt.	1-E		45.46	41.78	2'-10"	34'	12"	2.0
9+13	16' Rt.	1-A		45.70	40.85	3'-8"	131'	15"	0.65
9+13	22' Rt.	1-A		45.46	41.99	2'-8"	3'	12"	5.0
11+00	22' Lt.	1-A		47.16	43.19	3'-2"	40'	12"	2.0
11+00	22' Rt.	3-H		47.16	42.30	4'-0"	181'	12"	0.65
9"PB" +41	20' Lt.	1-A		49.35	46.50	2'-0"	38'	12"	0.5
9"PB" +41	21' Rt.	3-H		49.50	44.36	4'-4"	60'	18"	0.5
10"PB" +39	20' Rt.	3-H		50.00	44.93	4'-3"	94'	18"	0.5
10"PB" +60	33' Lt.	3-H		50.00	45.30	3'-10"	54'	18"	0.5
10"PB" +60	33' Lt.						4'	18"	1.0

One length of pipe for future connection

## BITUMINOUS CONCRETE PAVEMENT

Sta. - Sta.	Location	Bit. Conc. Pavt. Tons	Bit. Mat. for Surf. Course Tons	Bit. Mat. for Prime Coat Gal.
38+66.9 - 20+11.5	Centerline	2,731	163.8	4,027
49+71	Elm St., Lt.	21	1.3	48
49+71	La Fond Ave., Rt.	21	1.3	50
7+99	Tellin Ct., Lt.	20	1.2	49
17+62	Hinkley R., Lt & Rt.	116	7.0	204
Undistributed		141	8.4	222

## GRAVEL OR CRUSHED STONE BASE COURSE

Sta. - Sta.	Location	Tons	Topsoil S.Y.	Salvag. Topsoil S.Y.	Seeding S.Y.	Fertilizer Cwt.
38+66.9-20+11.5	Centerline	8,989	11,200	500	14,050	12.5
49+71	Elm St., Lt.	86			650	0.5
49+71	La Fond Ave., Rt.	86				
7+99	Tellin Ct., Lt.	81				
17+62	Hinkley Rd., Lt. & Rt.	397				
20+11.5	Temporary Connection	84				
Undistributed		487				

## CORRUGATED METAL CULVERT PIPE

Sta.	Loc.	Length	Size	Metal Apron Endwalls
51+94		12'	18"	1
51+94		12'	18"	1

PROJECT	SHEET NO.	TOTAL SHEETS
S 0616 (3)	3B	32

COUNTY AND HIGHWAY	ROUTE AND SECTION	CLASS AND AGREEMENT		B. P. R. REGION DIVISION	SHEET NUMBER	TOTAL SHEETS
		STATE	FEDERAL			
32.6	616.0	11.2		4 WIS.	4	
CONST. PROJECT 50616(3)					4	32

STANDARD ABBREVIATIONS

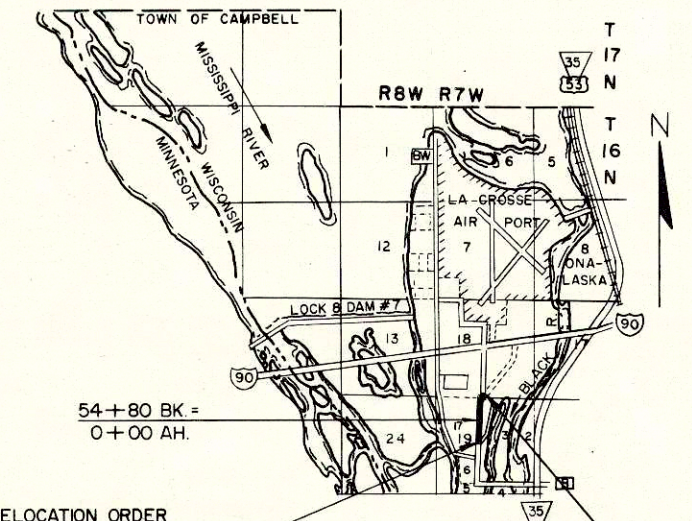
ACCESS POINT	A.P.	EXTERNAL DISTANCE	L	NORTH-EAST	NE	SANITARY	SAN.
ABANDON	ABND	FACTORY	FACT	NORTH-WEST	NW	SCHOOL SECTION	SCH SEC
ACRES	AC	FEDERAL AID PROJECT	F A F	OUTLOT	OL	SERVICE STATION	S.S.
AGRICULTURAL	AGRI	FIRE HYDRANT	FH	PAVEMENT	PAVT	SHED	S
AHEAD	AH	FOUNDATION	FDN	POINT OF CURVATURE	PC	SOUTH-EAST	SE
AUXILIARY REFERENCE LINE	A R L	GARAGE	G	POINT OF INTERSECTION	PI	SOUTH-WEST	SW
AVENUE	AVE	GOVERNMENT	GOVT	POINT OF TANGENCY	PT	SPECIAL CROSSING	SC
BACK	BK	HIGHWAY	HWY	POINT OF COMPOUND CURVE	PCC	SPECIAL DRIVE	SD
BANK	B	HOTEL	HO	POINT OF REVERSE CURVE	PRC	STANDARD	STD.
BLVD.	BLVD.	HOUSE	H	POINT ON CURVE	POC	STATE TRUNK HIGHWAY	STH
BUILDINGS	BLDGS	HOUSE TRAILER	HT	PRIVATE DRIVE	PD	STATION	STA
CEMETERY	CEM	INCLUSIVE	INCL	PROJECT	PROJ	STORE	ST
CENTERLINE	CL	INTERSTATE HIGHWAY	I H	PROPERTY LINE	PL	TANGENT LENGTH OF CURVE	T
CHANNEL CHANGE	CH CH	IRG/PIN	I P	RADIUS	R	TAVEN	TAV
CONCRETE	CONC	LEFT	LT	RAILROAD	RR	TRANSMISSION TOWER	TT
CONSTRUCTION	CONST	LENGTH OF CURVE	L C	RAILWAY	RY	UNITED STATES COAST & GEODETIC SURVEY	USC & GS
CORN CR.	COR	LIMITED HIGHWAY EASEMENT	L H E	REFERENCE LINE	RL	UNITED STATES GEOLOGICAL SURVEY	USGS
CORNER	CO	MACHINERY SHED	MS	REQUIRED	REQ'D	UNITED STATES HIGHWAY	USH
COUNTY	C	MAXIMUM	MAX	RESID	RESID	WAREHOUSE	WH
COUNTY TRUNK HIGHWAY	C.T.H.	MILE	M	RESTAURANT	REST	WATER TOWER	WT
CREEK	CR.	MILK HOUSE	MH	RIGHT	RT	WELL	W
CULVERT	CULV.	MINIMUM	MIN.	ROAD	RD	WINDMILL	WM
CULVERT OF CURVE	CULV. C	MONUMENT	MON	ROADWAY	RDWY		
DISPOSAL	DISP	MUNICIPAL	MUN				
DISTRICT	DIST.						
ESTATE	EST.						

NOTE:  
ALL EASEMENTS ARE TEMPORARY EXCEPT THOSE LISTED FOR DRAINAGE

SCHEDULE OF LANDS AND INTERESTS REQUIRED

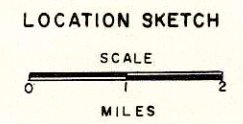
PARCEL NUMBER	SHEET NUMBER	OWNER	INTERESTS REQUIRED	ACRES
1	4.2	ROBERT GOETSCH	L.H.E. FOR SLOPES	—
2	4.2	GEORGE P. LOMIS	" " "	—
3	4.2	ROY T. WINJUM	" " "	—
4	4.2	ARTHUR EEG	" " "	—
5	4.2	OLIVE JENKS	" " "	—
7	4.2	JOSEPH E. HELLERUDE	" " "	—
8	4.2	DANIEL W. CAMERON	" " "	—
9	4.2	LAWRENCE S. HELGERSON	" " "	—
10	4.2	EARL S. MC KINNEY	" " "	—
11	4.2	EVERETT J. MC KINNEY	" " "	—
12	4.2	HERMAN F. HUTSCHEINREUTER	FEE SIMPLE & L.H.E. FOR SLOPES	0.04
13	4.2	GEORGE RICHMOND	FEE SIMPLE	0.34
14	4.2	WALTER B. LARSON	" " "	0.07
16	4.2	NORTHERN STATES POWER CO.	POLE EASE. RELEASE	—
17	4.1	FRED SCMECKPEPPER	L.H.E. FOR SLOPES	—
18	4.1	DONOVAN ZIMMERMAN	" " "	—
19	4.1	MARVIN A. NICHOLS	" " "	—
20	4.1	MARTHA E. BAKER	" " "	—
21	4.1	DARWIN R. BROWN	" " "	—
22	4.1	FRANCIS A. STAATS	" " "	—
23	4.1	JOHN S. REVELS	" " "	—
24	4.1	STEVEN D. KELNER	" " "	—
25	4.1	GEORGE W. JOLIVETTE	" " "	—
26	4.1	BURTON P. RICHARDSON	" " "	—
27	4.1	HERMAN B. SCHMITT	" " "	—
28	4.1	BONDED DEVELOPMENT CORP.	" " "	—
29	4.1	CORA MELBY	" " "	—

30	4.1	BENJAMIN E. EMERY	L.H.E. FOR SLOPES	—
31	4.1	RALPH L. HAUSER	" " "	—
32	4.1	WILLIAM DOBBS	" " "	—
33	4.1	DAVID A. RICHMOND	" " "	—
34	4.1	ROBERT W. SWANBECK	L.H.E. FOR DRAINAGE	—
35	4.1	WILLIAM J. BROCKMAN III	L.H.E. FOR SLOPES	—
36	4.1	HARRY N. SCHWALBE	" " "	—
37	4.1	A. E. LAPPIN	" " "	—
38	4.1	LEO R. ST. JACQUE JR.	" " "	—
39	4.1	ALBERT H. LA FOND	" " "	—
40	4.1	ICEL V. ALTON	" " "	—
41	4.1	ALBERT G. BRAUER	" " "	—
42	4.1	JERRY B. KNUDTSON	" " "	—
43	4.1	EDWARD KONETCHY	" " "	—
44	4.1	DON W. CHESEBRO	" " "	—
45	4.1	CARL LONGWAY	" " "	—
46	4.1	JUDSON REX RICHMOND	" " "	—
47	4.1	DONALD L. LEWIS	" " "	—
48	4.1	HENRY J. HARNISCH	" " "	—
49	4.1	ARMOND J. GROSS	" " "	—
50	4.1	CHARLES E. ANDERSON	" " "	—
51	4.1	CARL T. AMES	" " "	—
52	4.1	JOHN PAUL FEYEN	" " "	—
53	4.1	CLAUDE A. COON	" " "	—
54	4.1	RICHARD A. WALTERS	" " "	—
55	4.1	EDMOND A. MILLER	" " "	—
56	4.1	LILLIAN STROEH	L.H.E. FOR DRAINAGE	—
57	4.1	PAUL W. HEYER	" " "	—
58	4.1	CHARLES HASTINGS	" " "	—



BEGIN RELOCATION ORDER  
PROJECT S0616(2) STA. 50+00.9 = STA. 50+00.9 PROJECT S0616(1)  
420' NORTH AND 255' WEST OF THE CENTER OF SEC. 19, T. 16 N., R. 7 W.

END RELOCATION ORDER  
PROJECT S0616(2) STA. 20+11.5 = STA. 20+11.5 PROJECT I-90-1(2)10  
190' NORTH AND 33' WEST OF THE SOUTH 1/4 COR. SEC. 18, T. 16 N., R. 7 W.



NOTE:  
BEARINGS SHOWN ON THIS PLAT ARE THE TRUE BEARINGS OF EACH TANGENT TO THE NEAREST MINUTE.

LEGEND:  
LLLLLLLLL DENOTES NO ACCESS

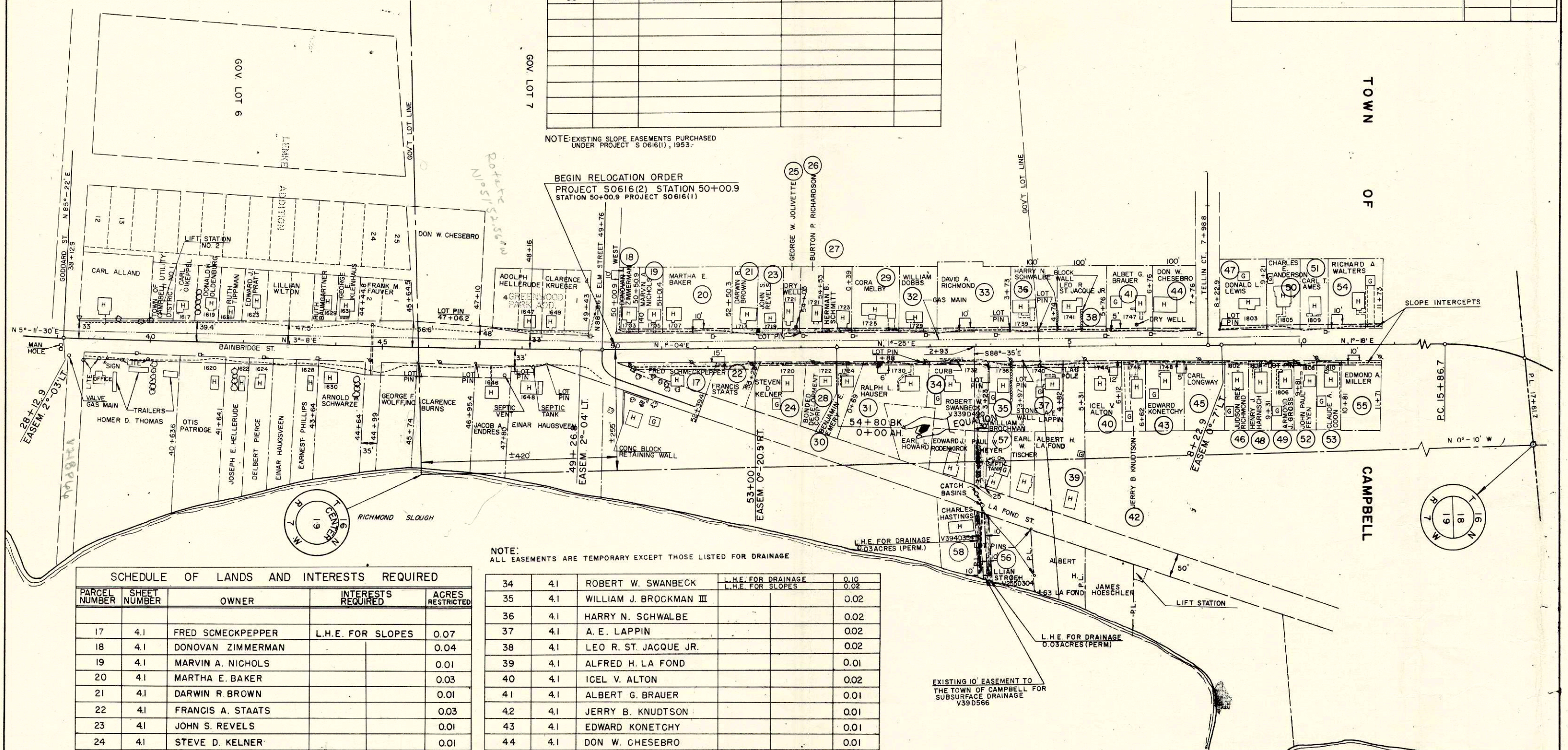
REVISION	STATE HIGHWAY COMMISSION OF WISCONSIN
DATE	PLAT OF RIGHT OF WAY REQUIRED
11-19-65	PROJECT S 0616(2)
1-13-66	U.S.H. 53 - LA CROSSE AIRPORT ROAD
	C.T.H. "B" LA CROSSE COUNTY
	SCALE
	0 100 200 FEET
	LENGTH 0.415 MILES DATED SEPT. 17 1965

54	4.1	RICHARD A. WALTERS	L.H.E. FOR SLOPES	0.03
55	4.1	EDMOND A. MILLER	" " "	0.02
56	4.1	LILLIAN STROEH	L.H.E. FOR DRAINAGE	0.03
57	4.1	PAUL W. HEYER	" " "	0.07
58	4.1	CHARLES HASTINGS	" " "	0.03

COUNTY AND HIGHWAY	ROUTE AND SECTION	CLASS AND AGREEMENT STATE FEDERAL	B. P. R. REGION DIVISION	SHEET NUMBER	TOTAL SHEETS
32.6	616.0	11.2	4 WIS.	4.1	32
CONST. PROJECT		50616(3)		4.1	32

NOTE: EXISTING SLOPE EASEMENTS PURCHASED UNDER PROJECT S 0616(1), 1953.

BEGIN RELOCATION ORDER  
PROJECT S0616(2) STATION 50+00.9  
STATION 50+00.9 PROJECT S0616(1)



NOTE: ALL EASEMENTS ARE TEMPORARY EXCEPT THOSE LISTED FOR DRAINAGE

SCHEDULE OF LANDS AND INTERESTS REQUIRED				
PARCEL NUMBER	SHEET NUMBER	OWNER	INTERESTS REQUIRED	ACRES RESTRICTED
17	4.1	FRED SCMECKPEPPER	L.H.E. FOR SLOPES	0.07
18	4.1	DONOVAN ZIMMERMAN		0.04
19	4.1	MARVIN A. NICHOLS		0.01
20	4.1	MARTHA E. BAKER		0.03
21	4.1	DARWIN R. BROWN		0.01
22	4.1	FRANCIS A. STAATS		0.03
23	4.1	JOHN S. REVELS		0.01
24	4.1	STEVE D. KELNER		0.01
25	4.1	GEORGE W. JOLIVETTE		0.01
26	4.1	BURTON P. RICHARDSON		0.01
27	4.1	HERMAN B. SCHMITT		0.01
28	4.1	BONDED DEVELOPMENT CORP		0.01
29	4.1	CORA MELBY		0.02
30	4.1	BENJAMIN E. EMERY		0.01
31	4.1	RALPH L. HAUSER		0.02
32	4.1	WILLIAM DOBBS		0.02
33	4.1	DAVID A. RICHMOND		0.03

34	4.1	ROBERT W. SWANBECK	L.H.E. FOR DRAINAGE	0.10
35	4.1	WILLIAM J. BROCKMAN III	L.H.E. FOR SLOPES	0.02
36	4.1	HARRY N. SCHWALBE		0.02
37	4.1	A. E. LAPPIN		0.02
38	4.1	LEO R. ST. JACQUE JR.		0.02
39	4.1	ALFRED H. LA FOND		0.01
40	4.1	ICEL V. ALTON		0.02
41	4.1	ALBERT G. BRAUER		0.01
42	4.1	JERRY B. KNUDTSON		0.01
43	4.1	EDWARD KONETCHY		0.01
44	4.1	DON W. CHESEBRO		0.01
45	4.1	CARL LONGWAY		0.01
46	4.1	JUDSON REX RICHMOND		0.01
47	4.1	DONALD L. LEWIS		0.02
48	4.1	HENRY J. HARNISCH		0.01
49	4.1	ARMOND J. GROSS		0.01
50	4.1	CHARLES E. ANDERSON		0.02
51	4.1	CARL T. AMES		0.01
52	4.1	JOHN PAUL FEYEN		0.01
53	4.1	CLAUDE A. COON		0.01

EXISTING 10' EASEMENT TO THE TOWN OF CAMPBELL FOR SUBSURFACE DRAINAGE V39D566

NOTE: BEARINGS SHOWN ON THIS PLAT ARE THE TRUE BEARINGS OF EACH TANGENT TO THE NEAREST MINUTE

REVISION DATE
11-19-65
1-13-66

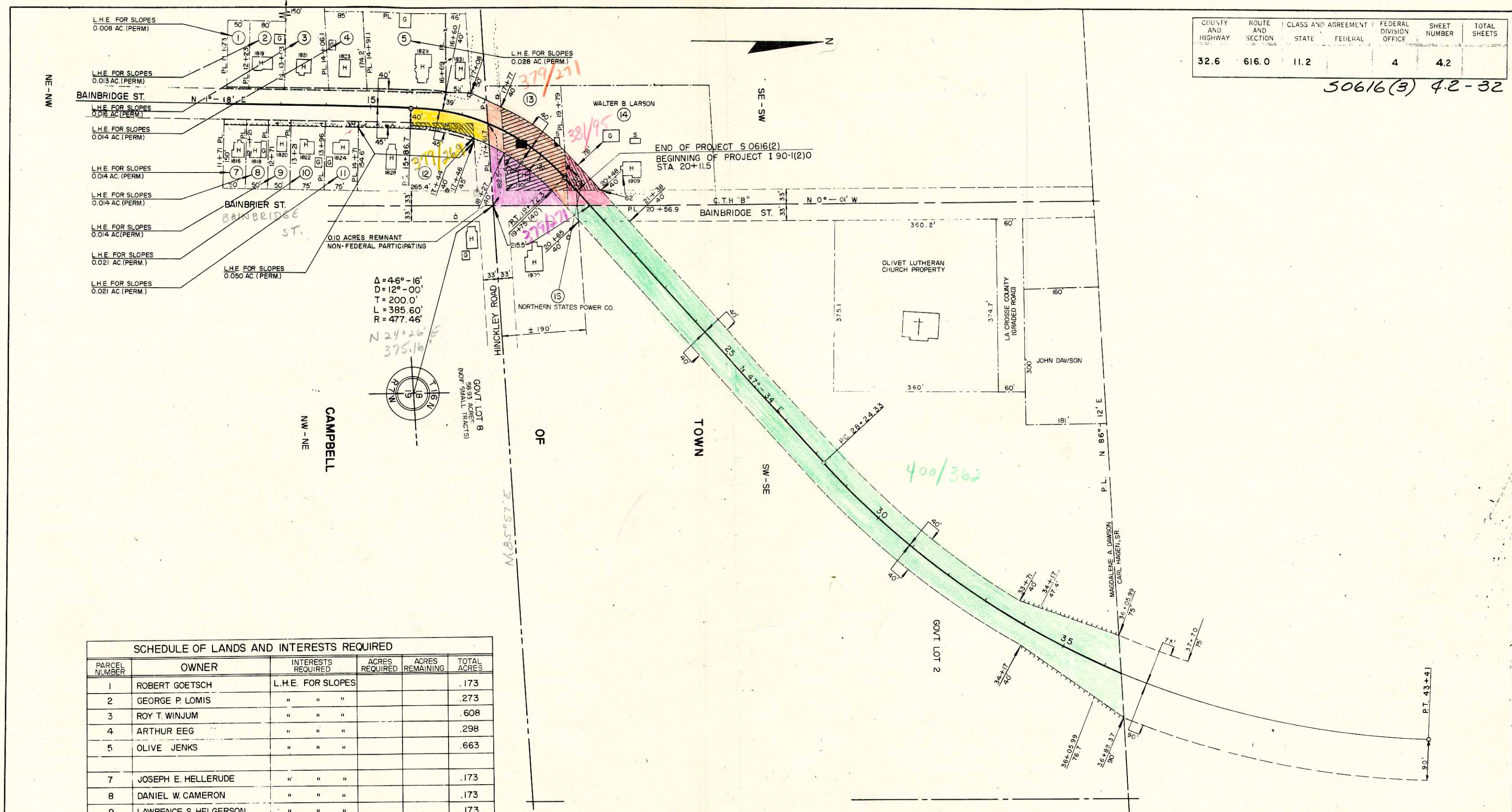
STATE HIGHWAY COMMISSION OF WISCONSIN  
**PLAT OF RIGHT OF WAY REQUIRED**  
**PROJECT S0616(2)**  
 U.S.H. 53- LA CROSSE AIRPORT ROAD  
 C.T.H. "B" LA CROSSE COUNTY

SCALE  
 0 100 200 FEET  
 DATED SEPT. 17 1965



COUNTY AND HIGHWAY	ROUTE AND SECTION	CLASS AND AGREEMENT	FEDERAL DIVISION OFFICE	SHEET NUMBER	TOTAL SHEETS
32.6	616.0	11.2	4	4.2	

50616(3) 4.2-32



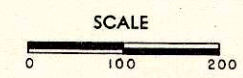
SCHEDULE OF LANDS AND INTERESTS REQUIRED					
PARCEL NUMBER	OWNER	INTERESTS REQUIRED	ACRES REQUIRED	ACRES REMAINING	TOTAL ACRES
1	ROBERT GOETSCH	L.H.E. FOR SLOPES			.173
2	GEORGE P. LOMIS	" " "			.273
3	ROY T. WINJUM	" " "			.608
4	ARTHUR EEG	" " "			.298
5	OLIVE JENKS	" " "			.663
7	JOSEPH E. HELLERUDE	" " "			.173
8	DANIEL W. CAMERON	" " "			.173
9	LAWRENCE S. HELGERSON	" " "			.173
10	EARL S. MC KINNEY	" " "			.258
11	EVERETT J. MC KINNEY	" " "			.258
12	HERMAN F. HUTSCHENREUTER	FEE SIMPLE & L.H.E. FOR SLOPES	.039	.845	.884
13	GEORGE RICHMOND	FEE SIMPLE	.344	.369	.713
14	WALTER B. LARSON	" " "	.069	.931	2.000
16	NORTHERN STATES POWER CO.	POLE EASE RELEASE			

NOTE: BEARINGS SHOWN ON THIS PLAT ARE TRUE BEARINGS OF EACH TANGENT TO THE NEAREST MINUTE.

LEGEND  
 =====  
 DENOTES  
 NO ACCESS

REVISION DATE
5-2-63
8-31-64
9-17-65
11-19-65
1-13-66

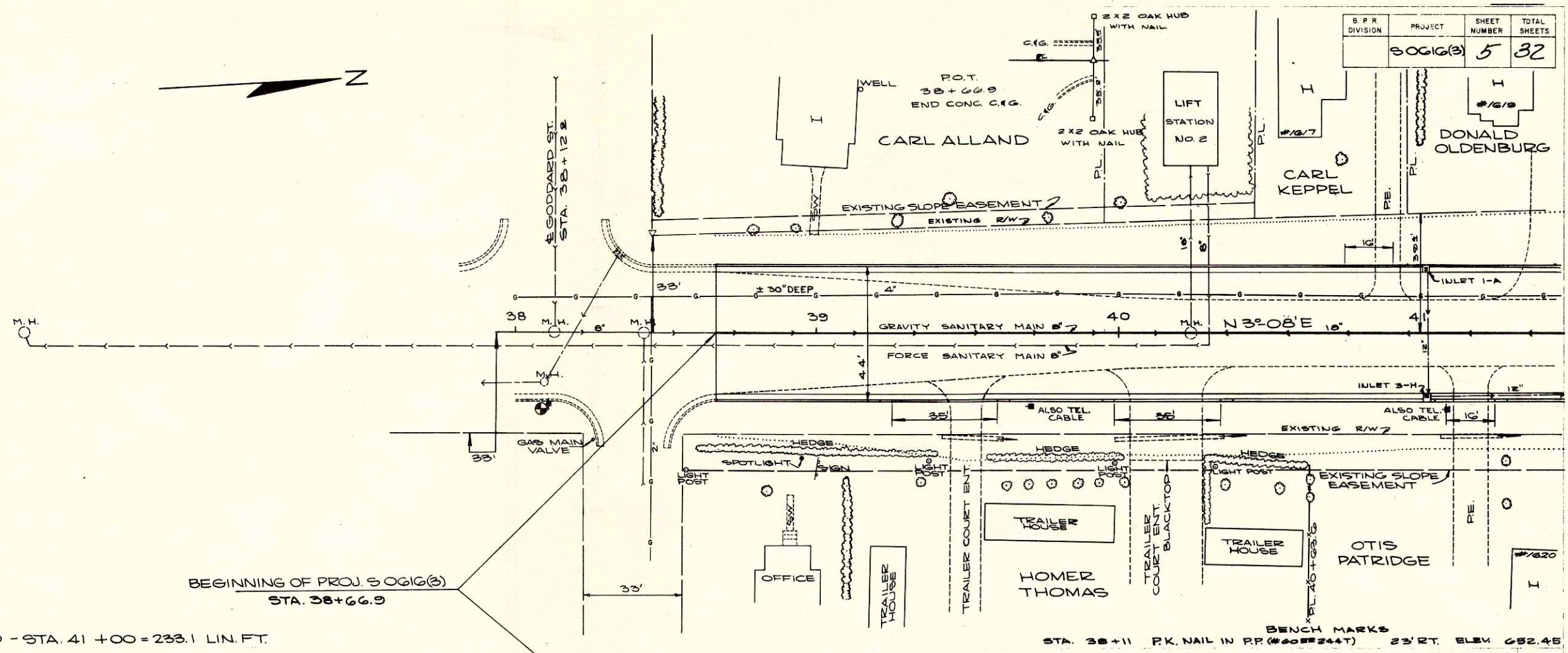
STATE HIGHWAY COMMISSION OF WISCONSIN  
 PLAT OF RIGHT OF WAY REQUIRED  
**PROJECT S0616(2)**  
 USH. 53 - LA CROSSE AIRPORT ROAD  
 LA CROSSE COUNTY  
 C.T.H. "B"



DATED MARCH 26, 1963

12-65  
 12-65  
 J.B.K.  
 J.B.K.  
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 J.B.K.  
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 J.B.K.  
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B.P.R. DIVISION	PROJECT	SHEET NUMBER	TOTAL SHEETS
	30GIG(3)	5	32

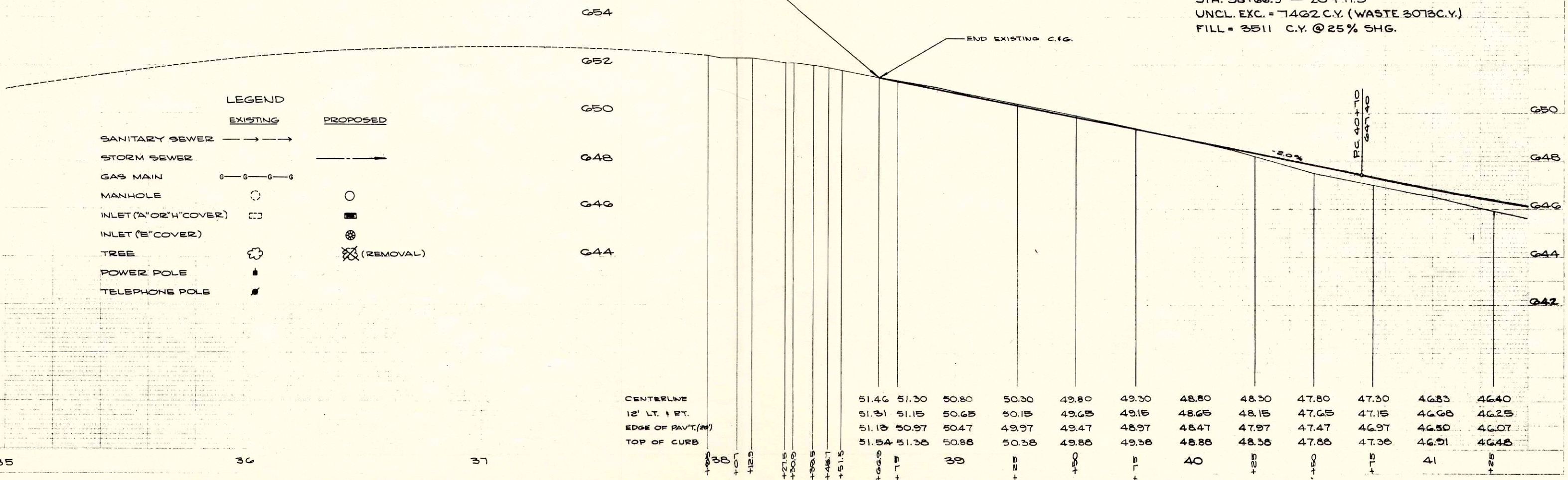


BEGINNING OF PROJ. 30GIG(3)  
STA. 38+66.9

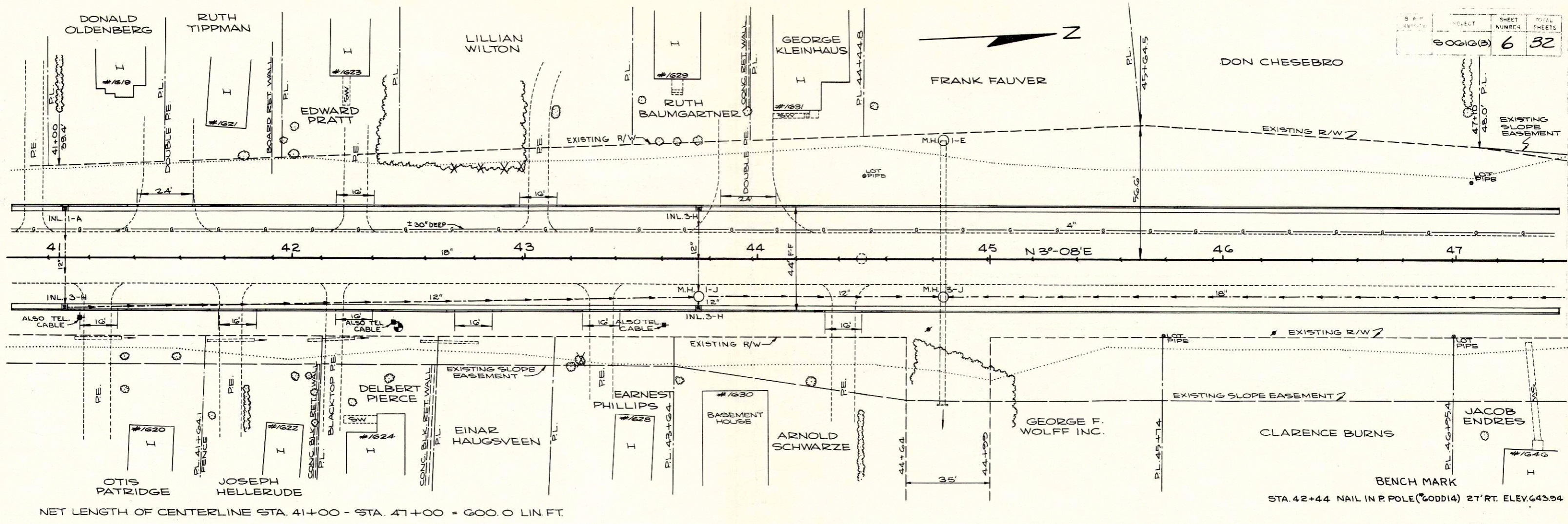
NET LENGTH OF CENTERLINE STA. 38+66.9 - STA. 41+00 = 233.1 LIN. FT.

BENCH MARKS  
STA. 38+11 P.K. NAIL IN RR (#40#244T) 23' RT. ELEV. 652.45

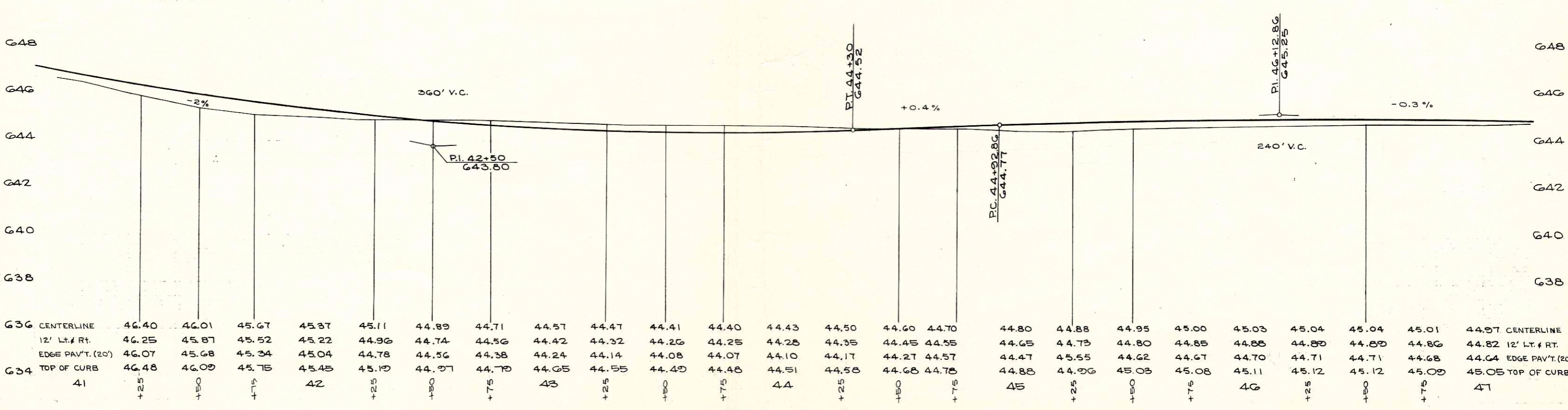
STA. 38+66.9 - 40+11.5  
UNCL. EXC. = 7422 C.Y. (WASTE 3073 C.Y.)  
FILL = 3511 C.Y. @ 25% SHG.

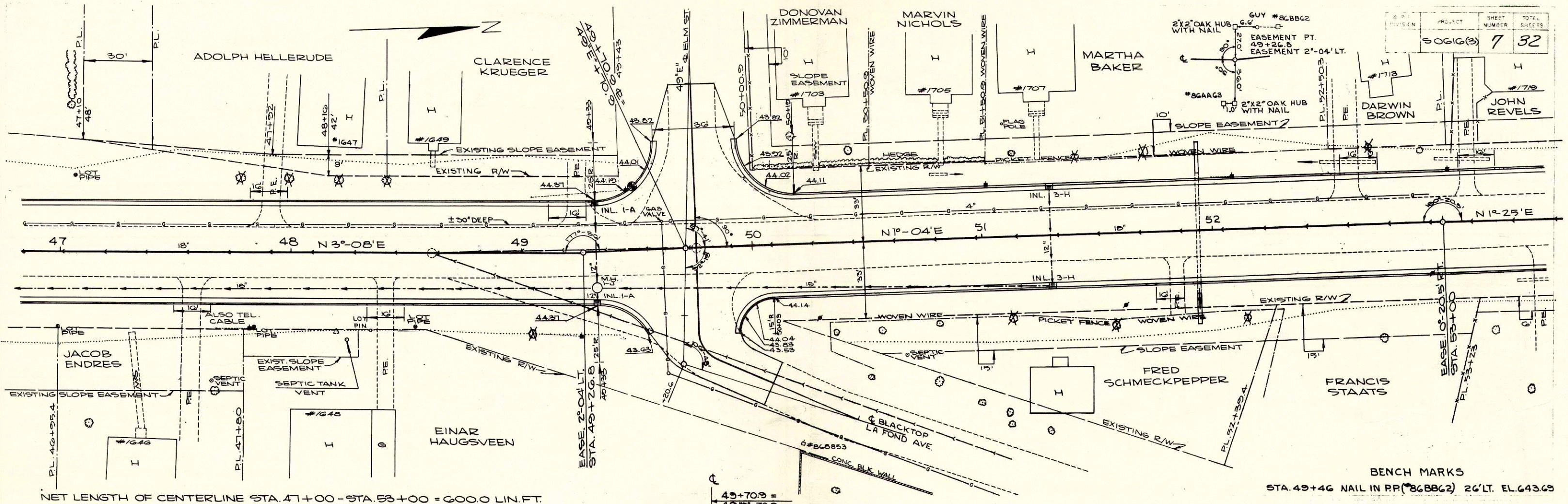


8-84  
 9-84  
 12-85  
 J.B.K.  
 J.B.K.  
 J.B.K.



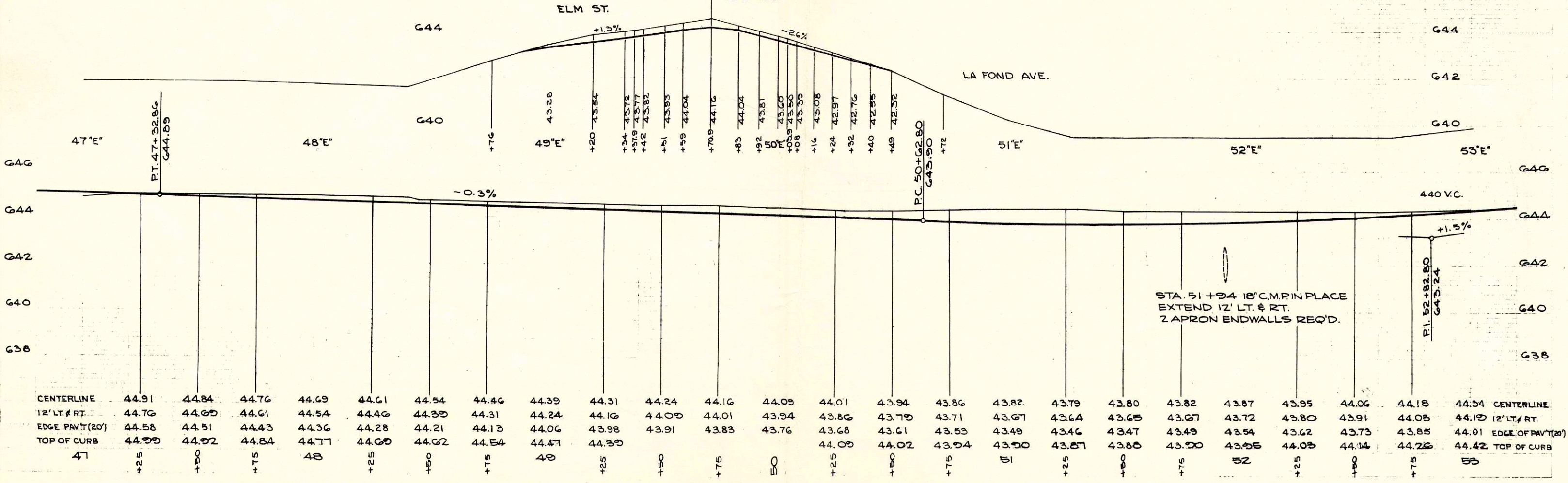
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 J.B.K.  
 J.B.K.





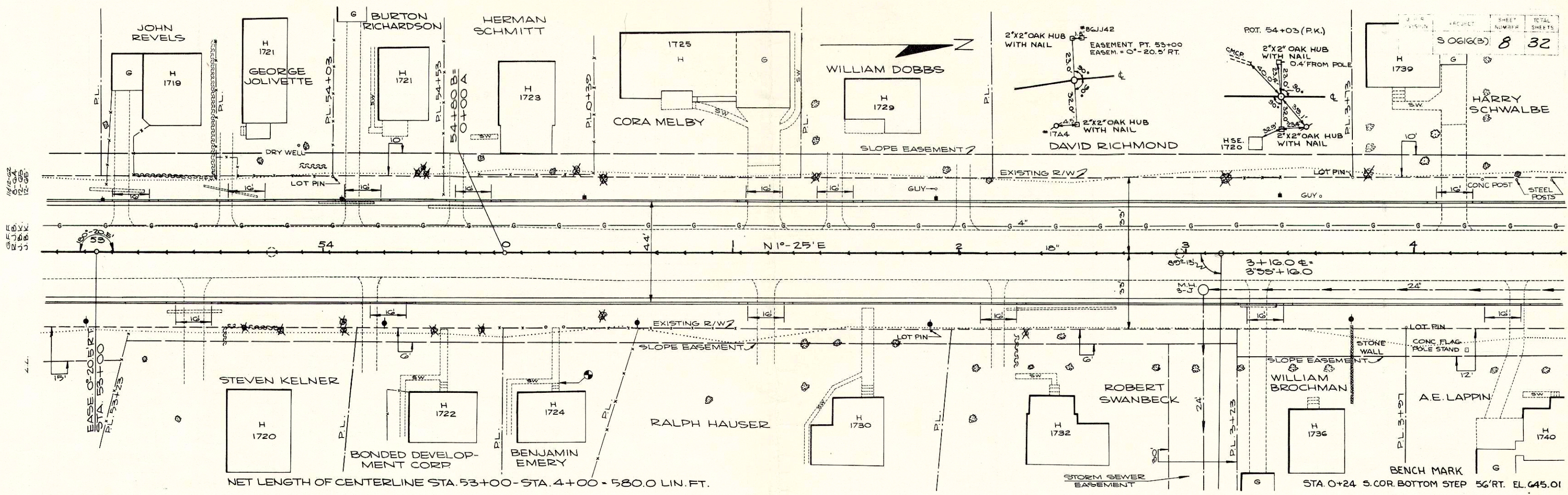
NET LENGTH OF CENTERLINE STA. 47+00 - STA. 53+00 = 600.0 LIN. FT.

BENCH MARKS  
STA. 49+46 NAIL IN RR (#86882) 26' LT. EL. 643.69

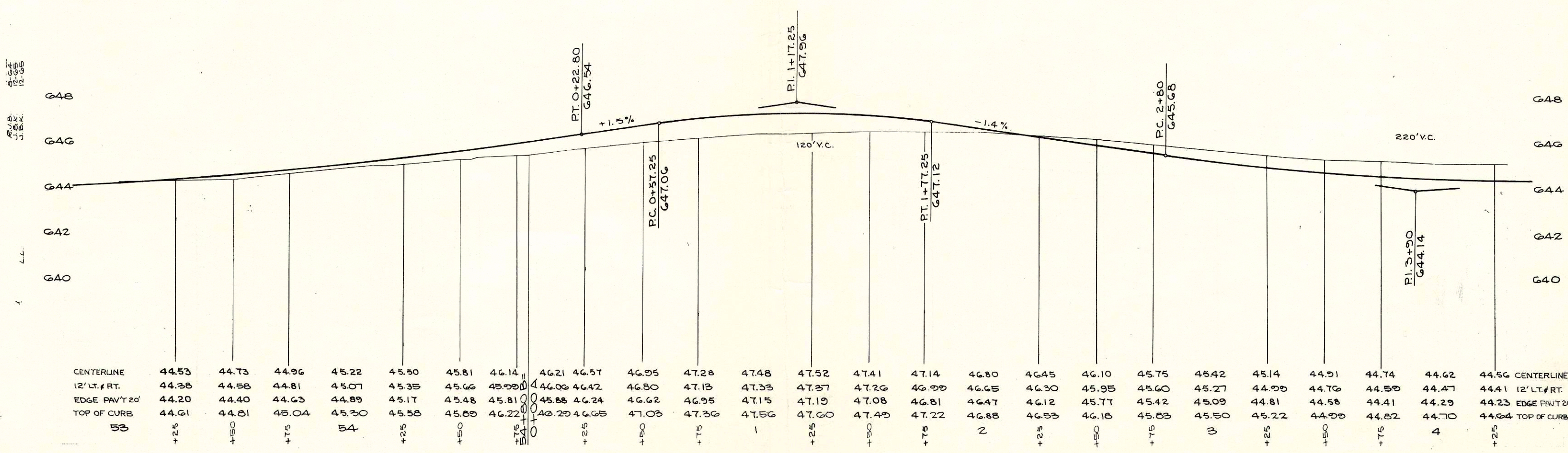


STA. 51+94 18" C.M. PIN PLACE  
EXTEND 12' LT. & RT.  
2 APRON ENDWALLS REQ'D.

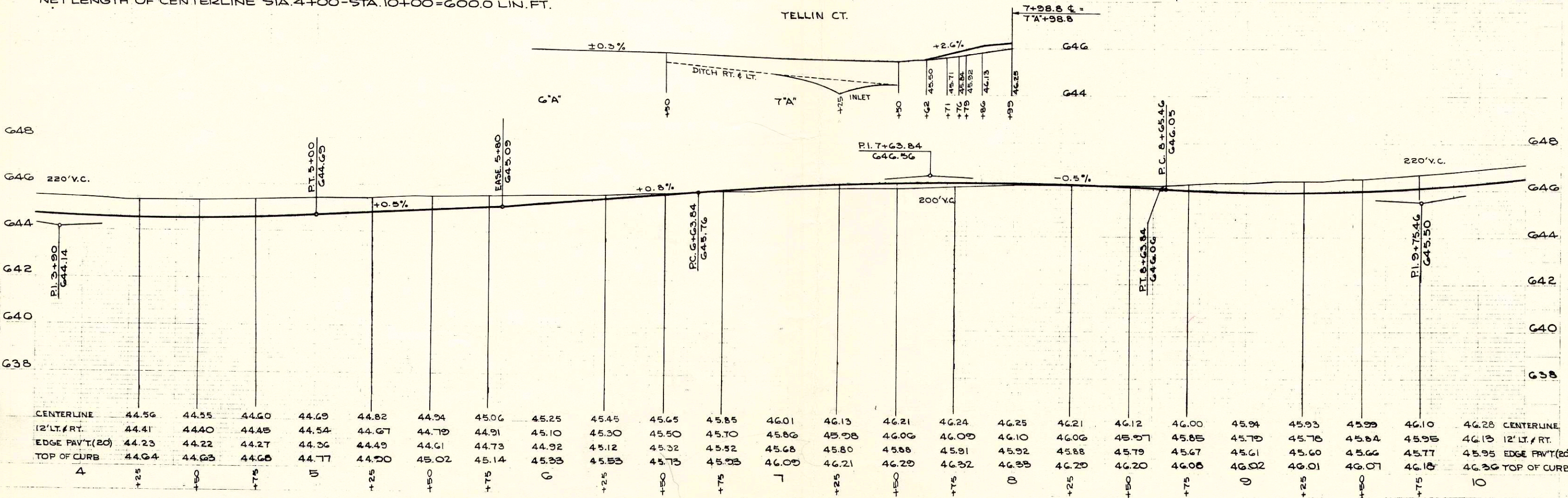
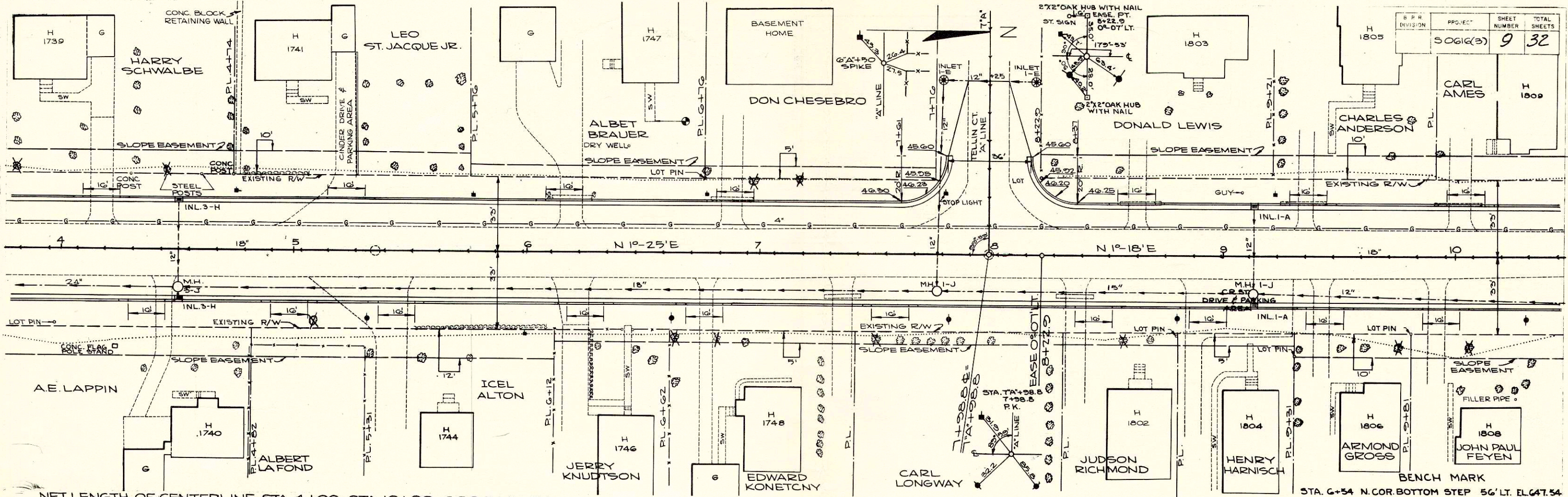
P.I. 52+82.80  
643.24



NET LENGTH OF CENTERLINE STA. 53+00 - STA. 4+00 = 580.0 LIN. FT.



B.P.R. DIVISION	PROJECT	SHEET NUMBER	TOTAL SHEETS
	5061(3)	9	32

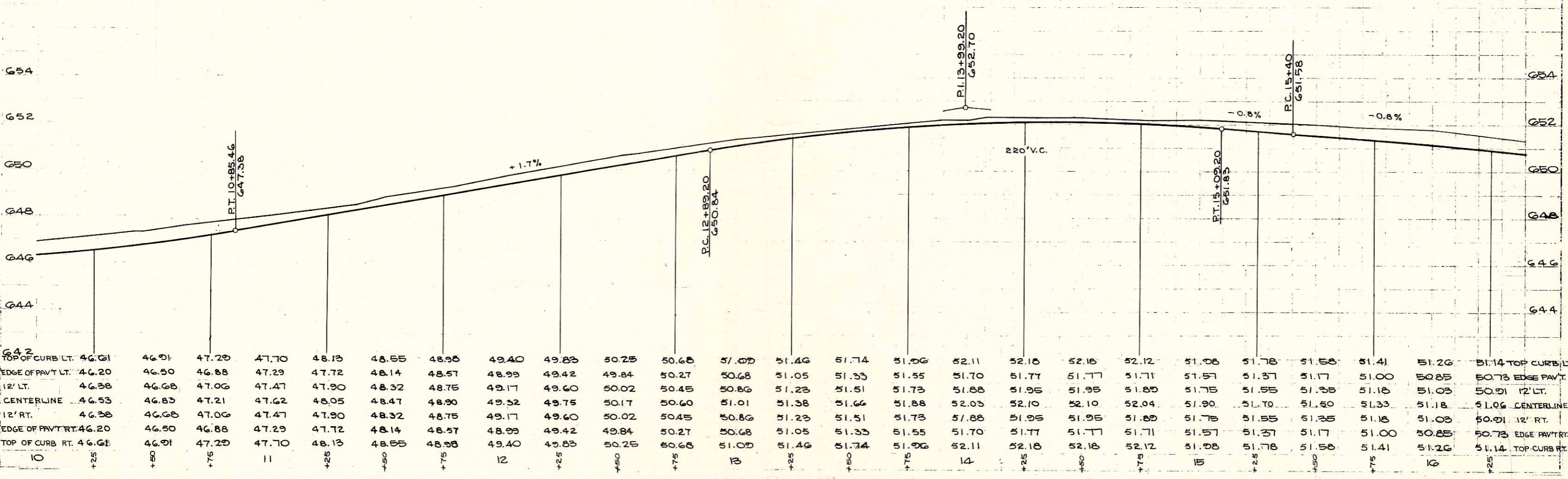
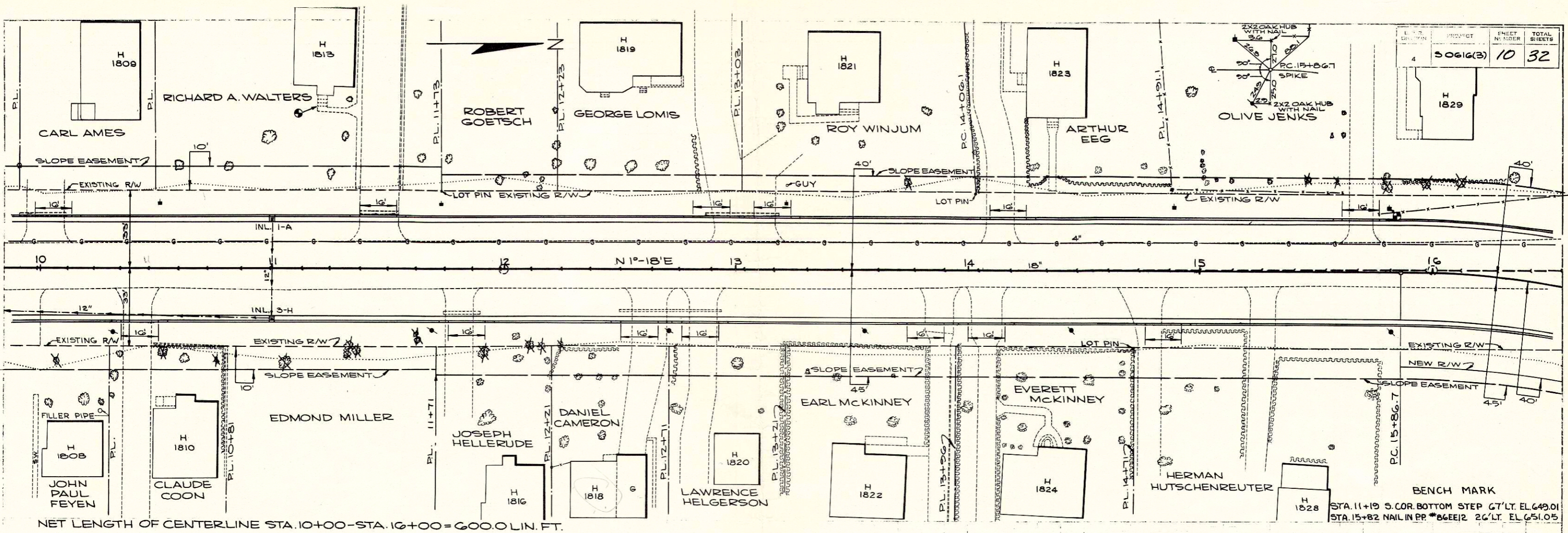


W/S  
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 J.B.K.  
 J.B.K.

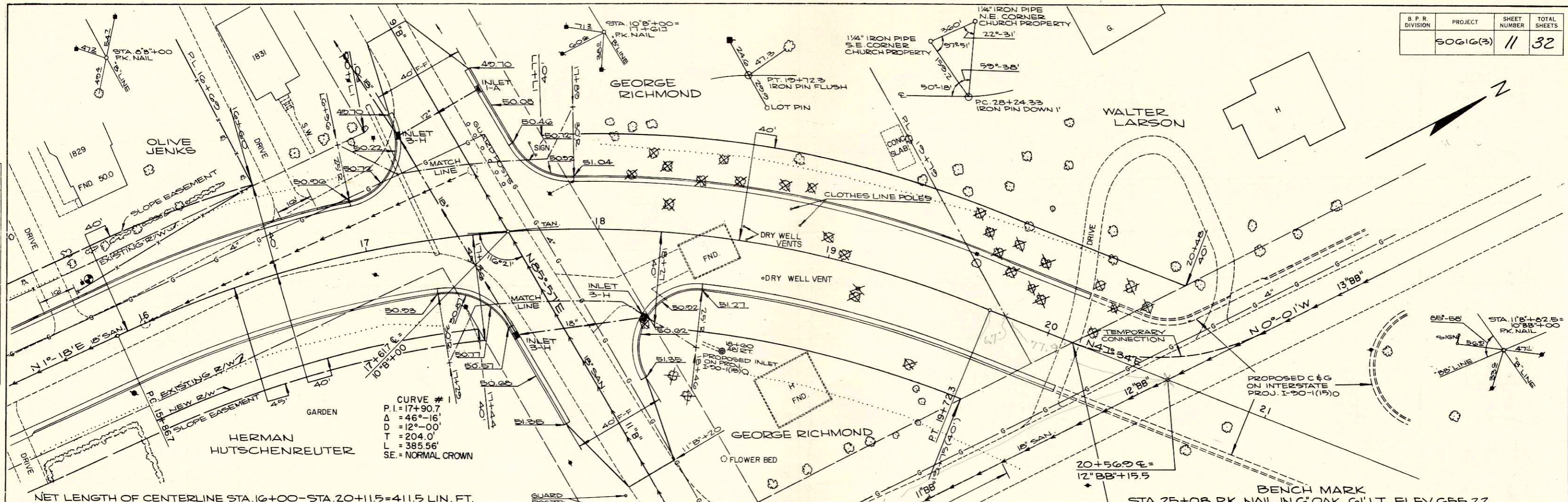
W/S  
 12-85  
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 J.B.K.  
 J.B.K.

W/S  
 12-85  
 J.B.K.  
 J.B.K.  
 J.B.K.

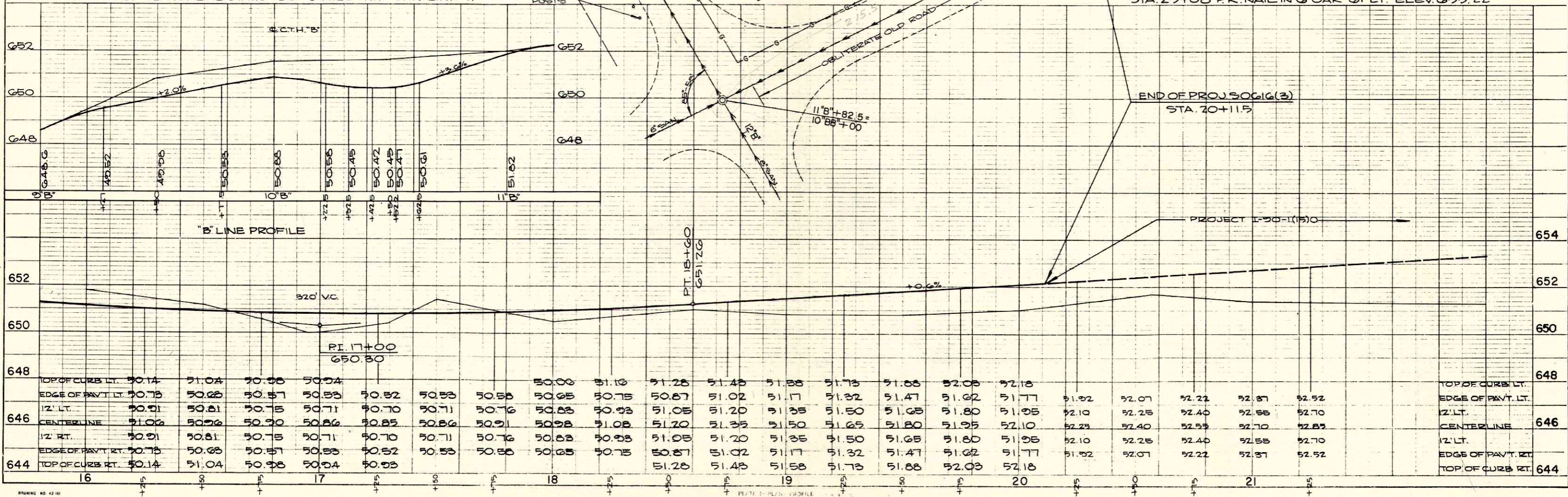
W/S  
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 J.B.K.  
 J.B.K.  
 J.B.K.



B.P.R. DIVISION	PROJECT	SHEET NUMBER	TOTAL SHEETS
	50616(3)	11	32



NET LENGTH OF CENTERLINE STA. 16+00 - STA. 20+11.5 = 411.5 LIN. FT.



648	TOP OF CURB LT.	50.14	51.04	50.98	50.94		50.06	51.10	51.28	51.48	51.58	51.73	51.88	52.08	52.18									648
	EDGE OF PAV'T. LT.	50.78	50.88	50.87	50.83	50.82	50.83	50.88	50.75	50.87	51.02	51.17	51.32	51.47	51.62	51.77	51.92	52.07	52.22	52.37	52.52			
646	12' LT.	50.91	50.81	50.78	50.71	50.70	50.71	50.76	50.83	50.93	51.05	51.20	51.35	51.50	51.65	51.80	51.95	52.10	52.25	52.40	52.55	52.70	52.85	646
	CENTERLINE	51.06	50.96	50.90	50.86	50.85	50.86	50.91	50.98	51.08	51.20	51.35	51.50	51.65	51.80	51.95	52.10	52.25	52.40	52.55	52.70	52.85		
	12' RT.	50.91	50.81	50.75	50.71	50.70	50.71	50.76	50.83	50.93	51.05	51.20	51.35	51.50	51.65	51.80	51.95	52.10	52.25	52.40	52.55	52.70	52.85	
	EDGE OF PAV'T. RT.	50.78	50.88	50.87	50.83	50.82	50.83	50.88	50.75	50.87	51.02	51.17	51.32	51.47	51.62	51.77	51.92	52.07	52.22	52.37	52.52			
644	TOP OF CURB RT.	50.14	51.04	50.98	50.94	50.93	50.93	50.88	50.75	51.28	51.48	51.58	51.73	51.88	52.08	52.18								644
	EDGE OF PAV'T. RT.																							

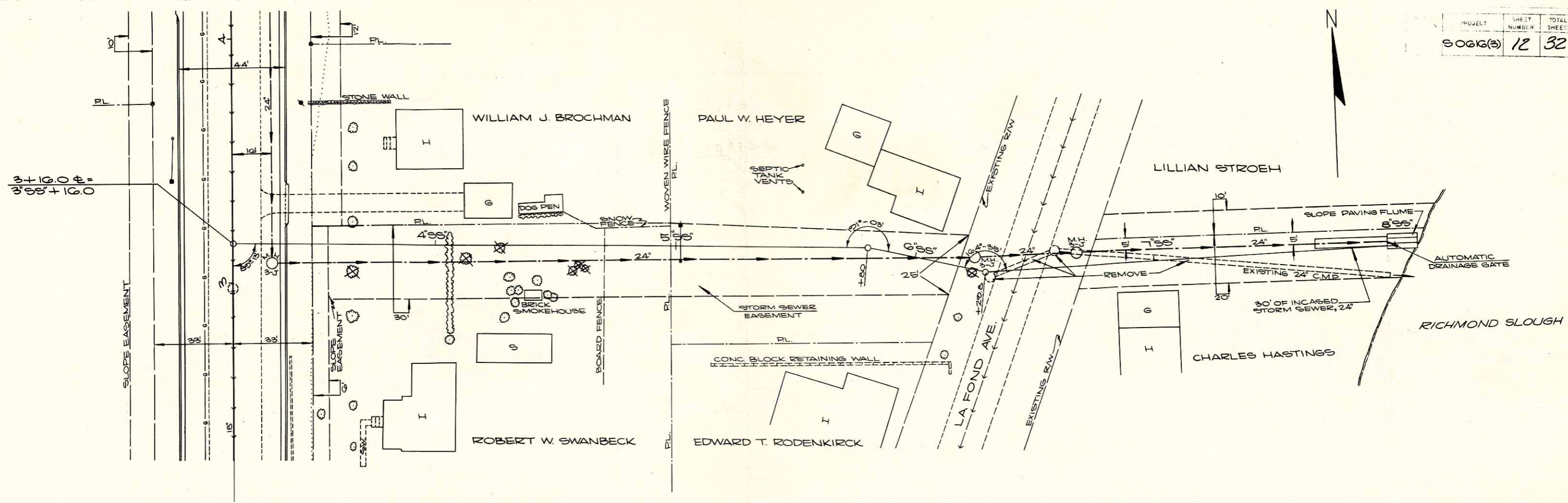
NOTE BOOK (BINDER) CHECKED  
 B.M. ACTED  
 NO. L.L.L. STRUCTURE, NATURE, CHNG.

12-08  
 12-08  
 J.B.K.  
 J.B.K.

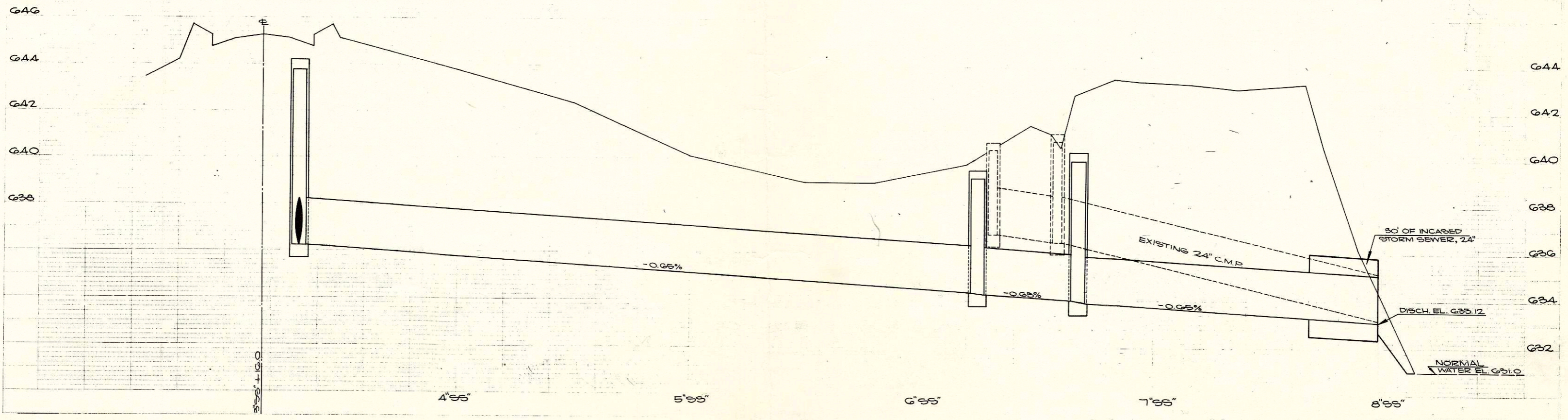
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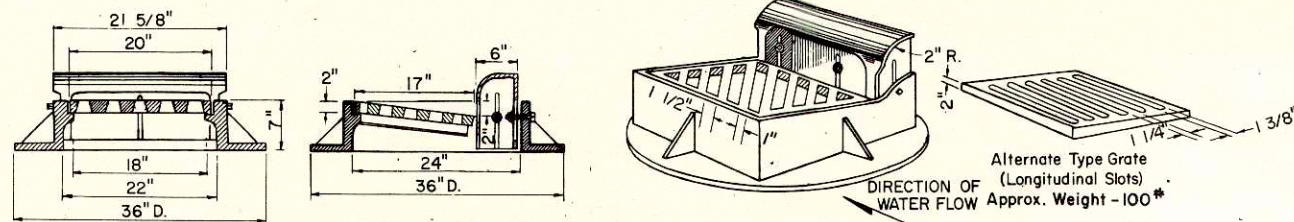
PROJECT	SHEET NUMBER	TOTAL SHEETS
90616(3)	12	32



PLAN  
 SHEET NO. 12  
 DATE: 12-08-00  
 BY: J.J.B.  
 CHECKED: J.J.B.  
 IN CHARGE: J.J.B.  
 NOTE: THIS SHEET IS PART OF A SET OF SHEETS FOR PROJECT NO. 90616(3).

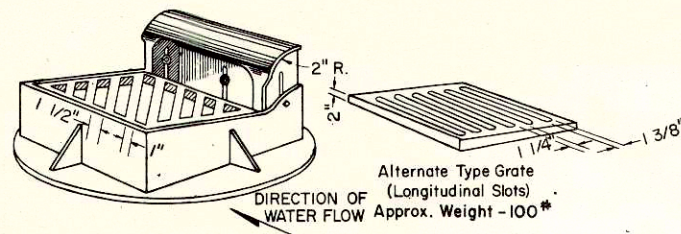


PROFILE  
 SHEET NO. 12  
 DATE: 12-08-00  
 BY: J.J.B.  
 CHECKED: J.J.B.  
 IN CHARGE: J.J.B.  
 NOTE: THIS SHEET IS PART OF A SET OF SHEETS FOR PROJECT NO. 90616(3).

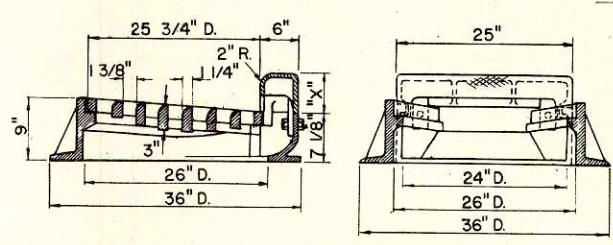


**TYPE "A"** - (Approx. Weight 390 Lbs.)

Frame Weight - 250 #  
 Grate " - 90 #  
 Box " - 50 #

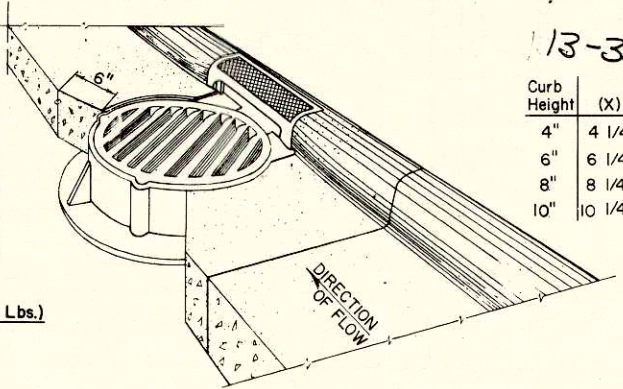


Alternate Type Grate  
 (Longitudinal Slots)  
 Approx. Weight - 100 #



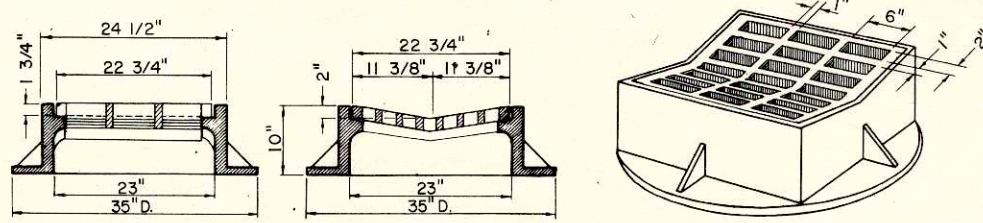
**TYPE "G"** - (Approx. Weight 425-465 Lbs.)

Frame Weight - 235 #  
 Grate " - 130 #  
 Box - See Table



13-32

Curb Height	(X)	Weight
4"	4 1/4"	60 #
6"	6 1/4"	70 #
8"	8 1/4"	90 #
10"	10 1/4"	100 #

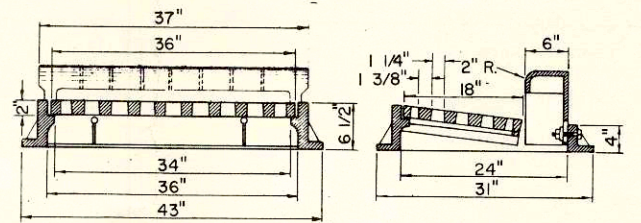
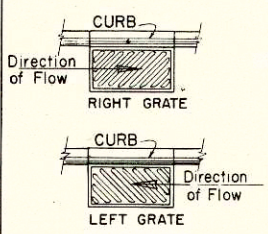


**TYPE "B"** - (Approx. Weight 414 Lbs.)

Frame Weight - 275 #  
 Grate " - 139 #

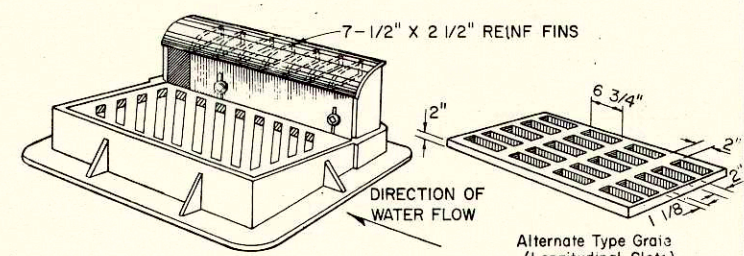
**SPECIAL NOTE**  
 Diagonal Slots shall be oriented to the direction of flow as shown hereon. Hence RIGHT and LEFT Grates shall be furnished depending on direction of flow. (See Sketch Below)

Longitudinal slot type grates may be used ONLY where bicycles are prohibited.

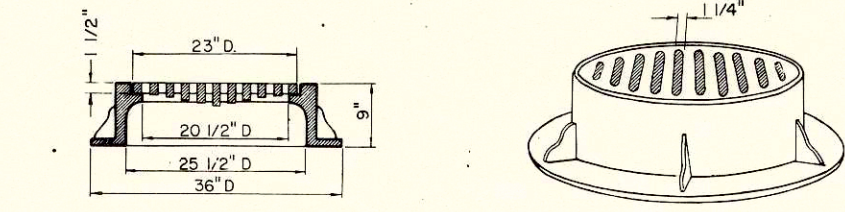


**TYPE "H"** - (Approx. Weight 530 Lbs.)

Frame Weight - 220 #  
 Grate " - 200 #  
 Box " - 110 #

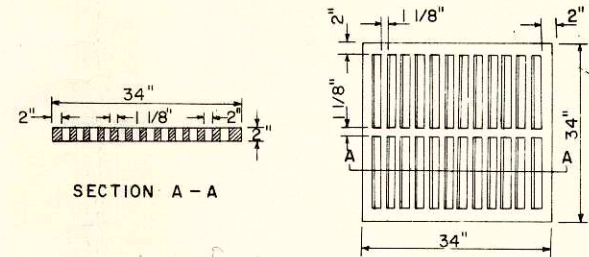


Alternate Type Grate  
 (Longitudinal Slots)  
 Approx. Weight - 200 #



**TYPE "C"** - (Approx. Weight 370 Lbs.)

Frame Weight Type "C" & Type "D" - 255 #  
 Slotted Grate Weight - 115 #  
 Solid Cover Weight - 150 #  
 (Note: Frame for Type "C" same as for Type "D")



**INLET COVER TYPE MS**

GRATE WEIGHT 270 #

**GENERAL NOTES**

Details of Construction, Materials and Workmanship not shown on this drawing shall conform to the pertinent requirements of the Standard Specifications and the applicable Special Provisions.

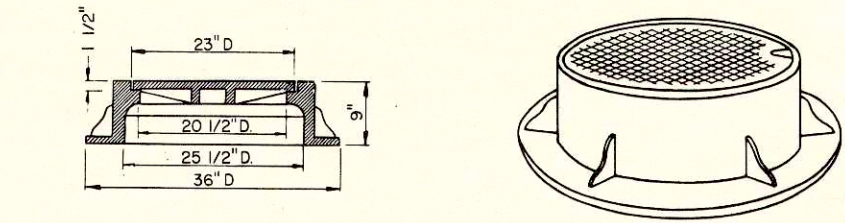
**MATERIALS** - All Iron Castings shown on this drawing shall conform to the requirements for "Class 30" of the "Standard Specifications for Gray Iron Castings, A.S.T.M. Designation A 48," and the Standard Specifications.

**BEARING SURFACES** - All Catch Basin and inlet frames and grates which are placed in vehicular traffic areas shall be "Non-Rocking" type, or shall be "Bearing Surface" seated so as to prevent any or all cover noise under traffic.

**NOMENCLATURE** - All Catch Basin and inlet units are designated on the Plans as "Catch Basins 1-A", 2-B, etc., or "inlets 1-A", 3-H, etc. This designation is interpreted to mean that the number, or first digit designates the Masonry portion of the structure, and the following letter or second digit designates the type of cover or Iron Casting (Shown hereon) to be used therewith to comprise the complete Unit "Catch Basin" or "inlet" in place.

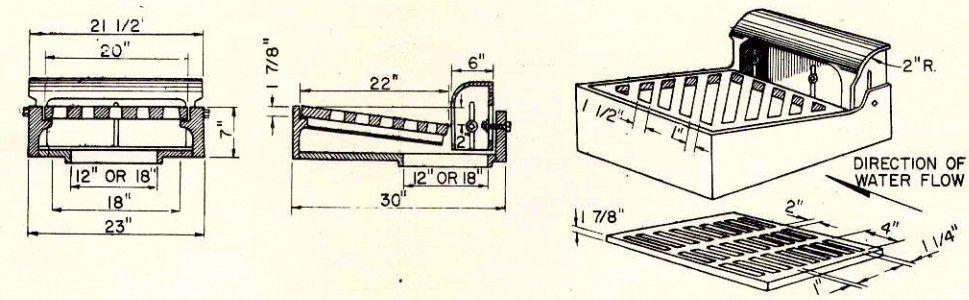
**ADJUSTMENTS** - Curb Box height to be adjustable 4"-9" unless otherwise noted. Curb Box height to be adjusted after curb form is in place.

**ALTERNATE DESIGNS** - Detailed drawings for proposed Alternate Designs for "Catch Basin" or "Inlet" Covers may be submitted to the Engineer for approval providing that such Alternate Designs make provision for equivalent capacity and strength.



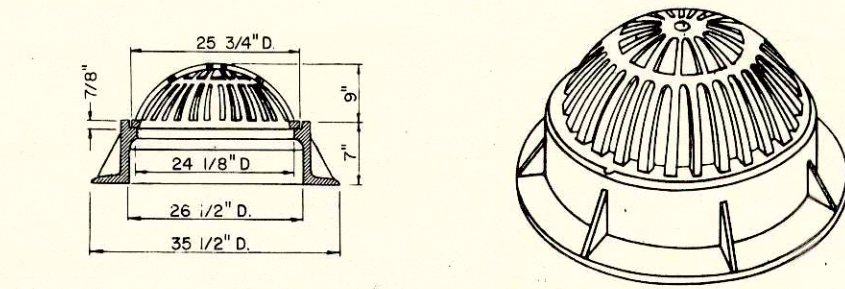
**TYPE "D"** - (Approx. Weight 405 Lbs.)

(Note: Frame for Type "D" same as for Type "C")

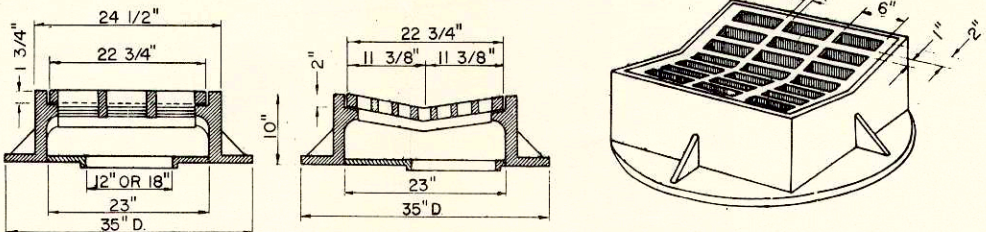


**TYPE "R"** - (Approx. Weight 450 Lbs.)

Alternate Type Grate  
 (Longitudinal Slots)



**TYPE "E"** - (Approx. Weight 325 Lbs.)



**TYPE "S"** - (Approx. Weight 450 Lbs.)

**CATCH BASIN & INLET COVERS**

**STATE HIGHWAY COMMISSION OF WISCONSIN**

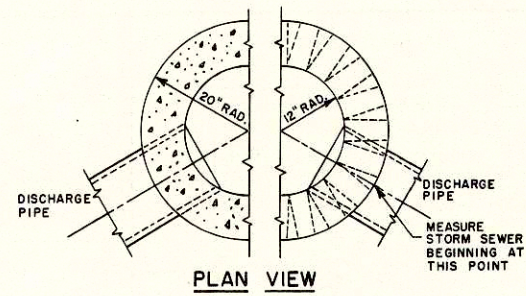
RECOMMENDED FOR APPROVAL:

11-23-63 DATE *J. L. Pitt* ENGINEER OF DESIGN

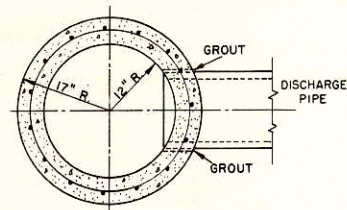
APPROVED: \_\_\_\_\_

12/3/63 DATE \_\_\_\_\_ STATE HIGHWAY ENGINEER

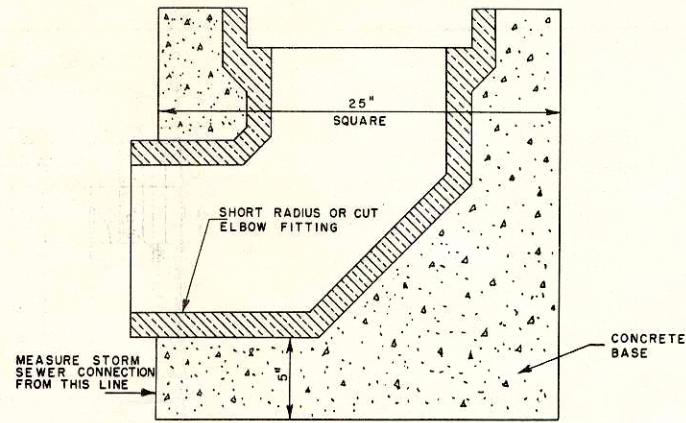
PLATE NO. 5-3.4.7



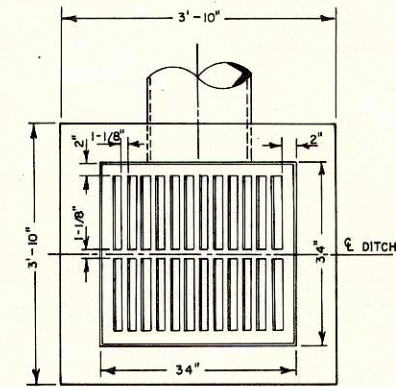
PLAN VIEW



PLAN VIEW

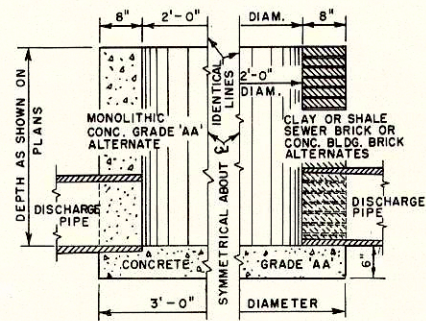


INLET TYPE 2



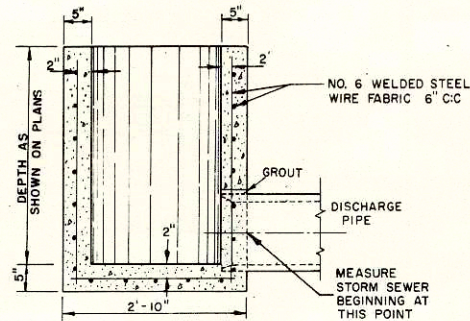
PLAN VIEW

13.1-32



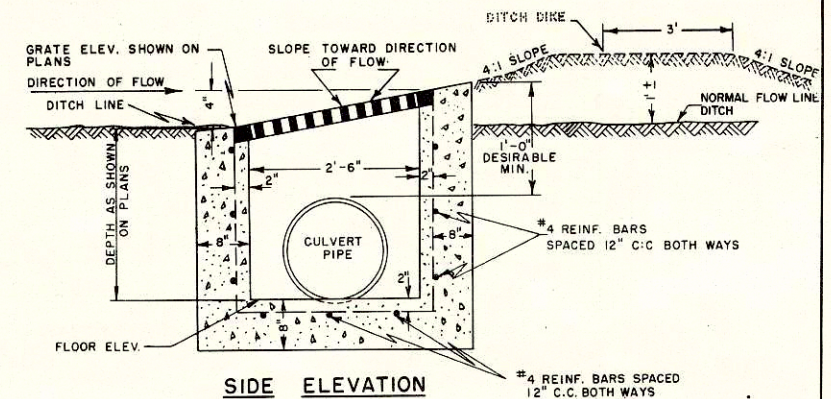
ELEVATION VIEW

SHOWING DETAILS FOR MONOLITHIC CONCRETE, CLAY OR SHALE SEWER BRICK, OR CONCRETE BUILDING BRICK ALTERNATES FOR



ELEVATION VIEW

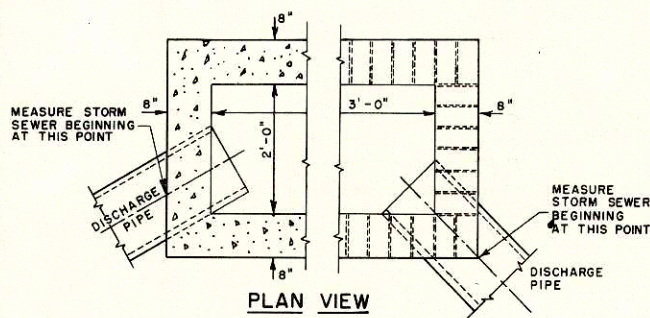
SHOWING DETAILS FOR PRE-CAST CONCRETE ALTERNATE FOR



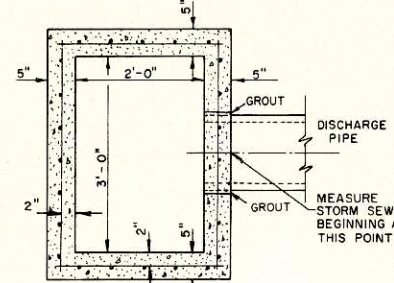
SIDE ELEVATION

INLET TYPE 8

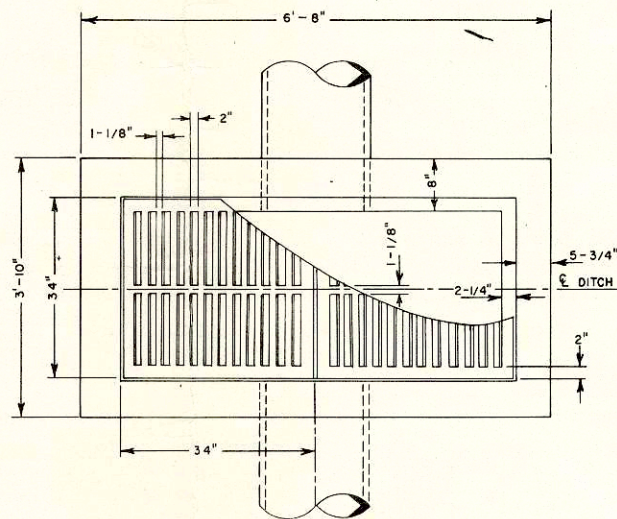
INLET TYPE 1



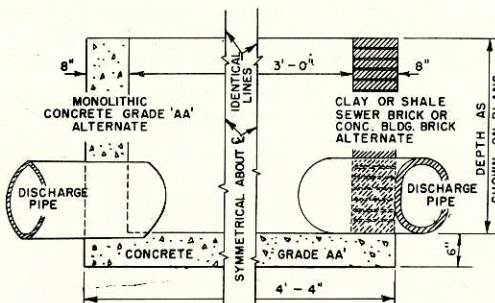
PLAN VIEW



PLAN VIEW

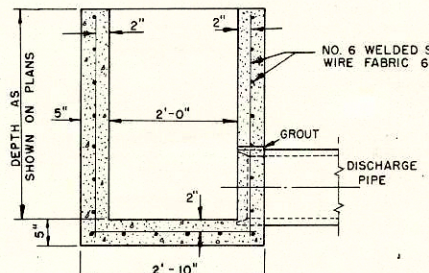


PLAN VIEW



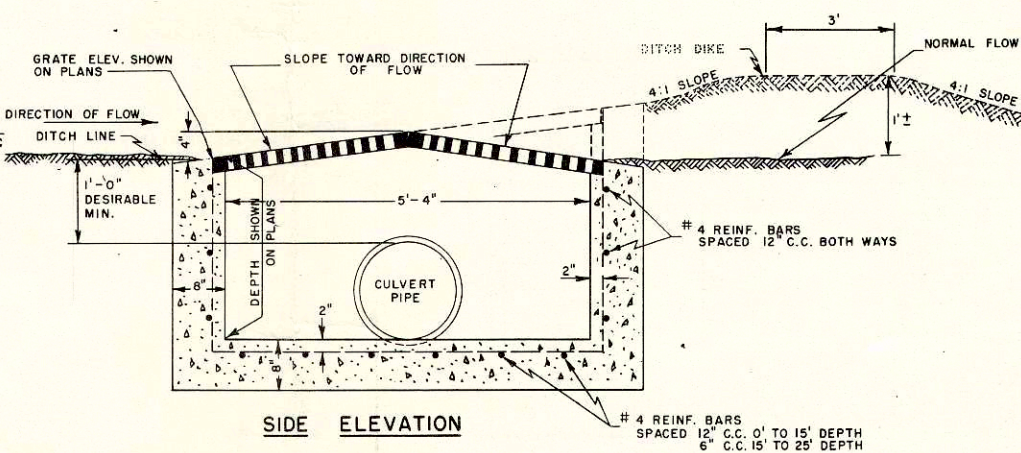
ELEVATION VIEW

SHOWING DETAILS FOR MONOLITHIC CONCRETE, CLAY OR SHALE SEWER BRICK, OR CONCRETE BUILDING BRICK ALTERNATES FOR



ELEVATION VIEW

SHOWING DETAILS FOR PRE-CAST CONCRETE ALTERNATE FOR



SIDE ELEVATION

INLET TYPE 9

GENERAL NOTES:

DETAILS OF CONSTRUCTION, MATERIALS AND WORKMANSHIP NOT SHOWN ON THIS DRAWING SHALL CONFORM TO THE PERTINENT REQUIREMENTS OF THE STANDARD SPECIFICATIONS AND THE APPLICABLE SPECIAL PROVISIONS.

ARRANGEMENT, SIZE AND NUMBER OF INLET AND DISCHARGE PIPES SHALL CONFORM TO THE NEEDS OF THE PERTINENT LOCATION.

INLETS ARE CALLED FOR ON THE PLANS AS "INLETS 1-A", "INLETS 2-R", ETC., THE NUMBER DESIGNATES THE MASONRY PORTION OF THE STRUCTURE AND THE LETTER DESIGNATES THE COVER TO BE USED THEREON.

INLETS

STATE HIGHWAY COMMISSION OF WISCONSIN

RECOMMENDED FOR APPROVAL

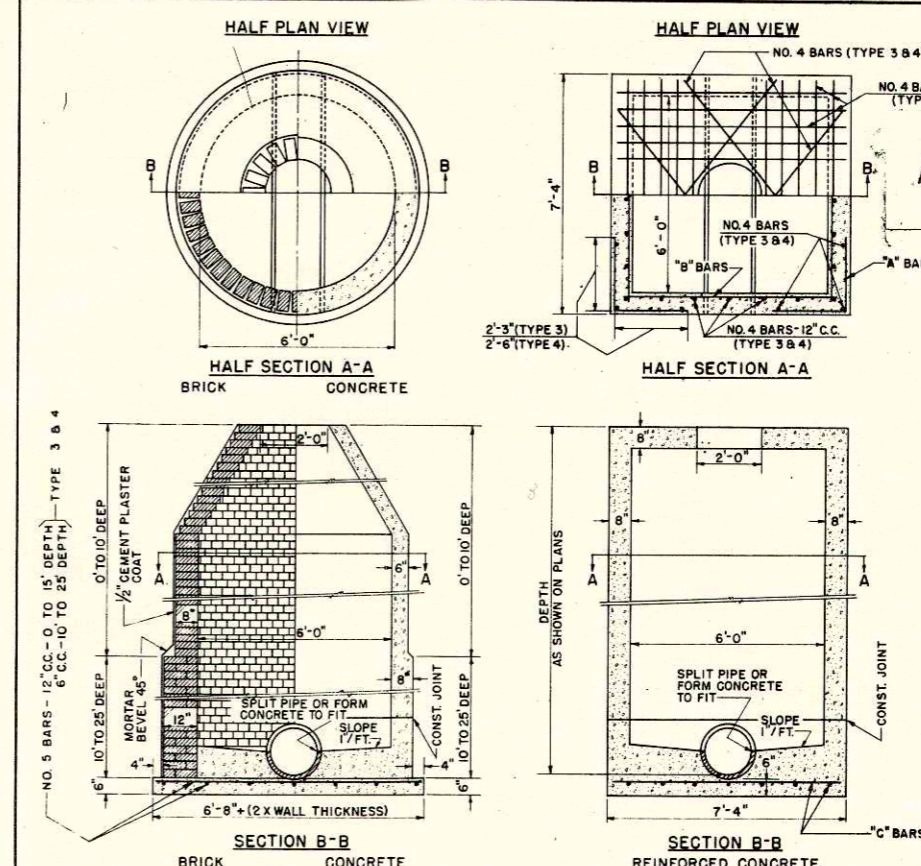
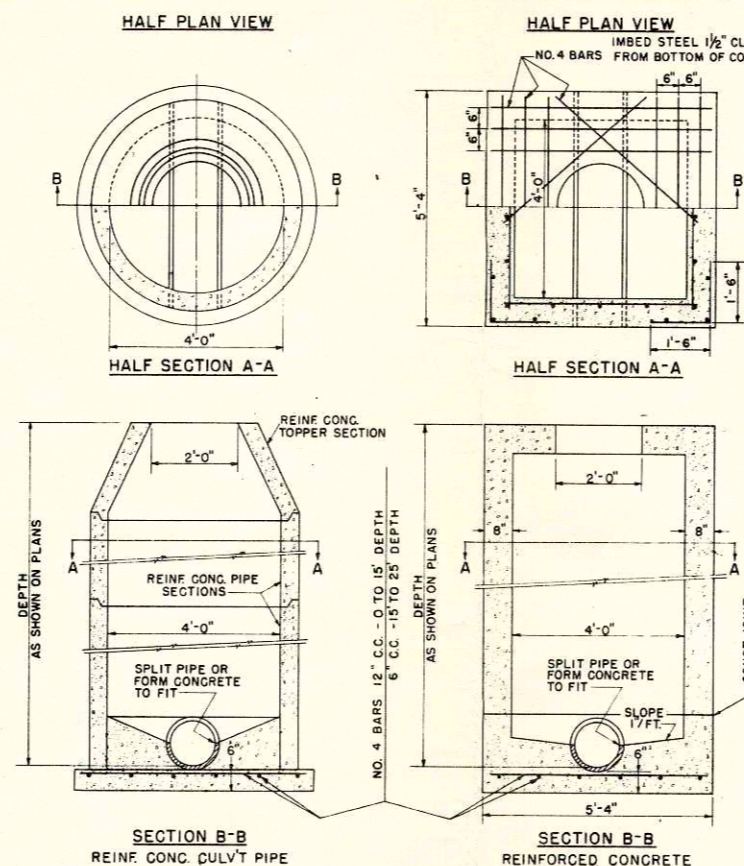
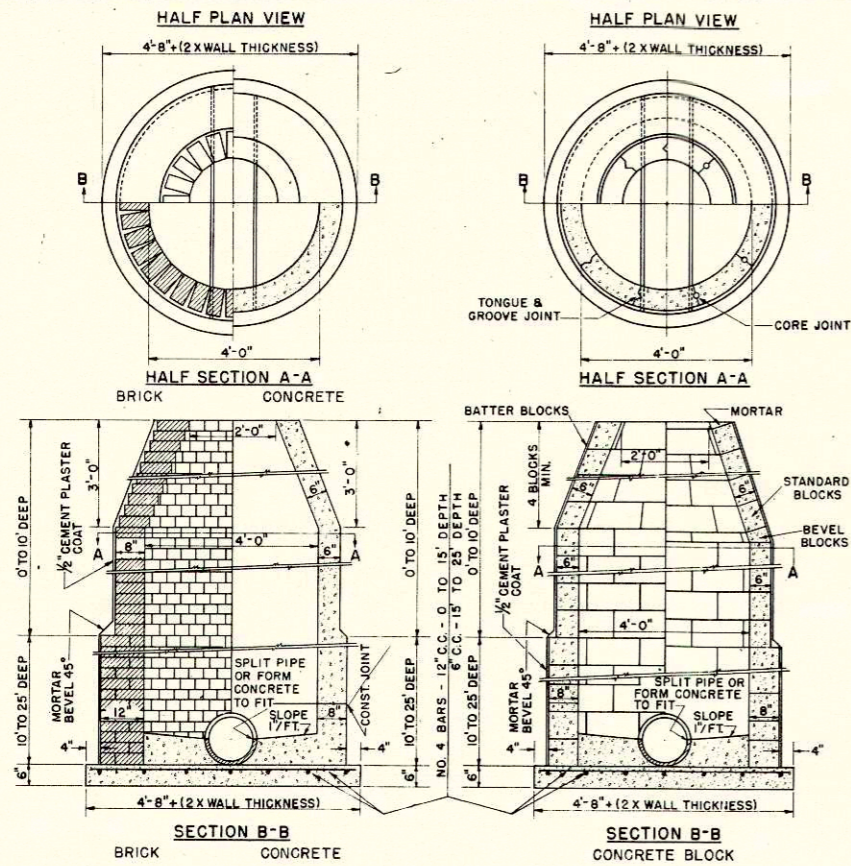
11-21-63  
DATE

J. S. Pelt  
ENGINEER OF DESIGN

APPROVED:  
12/3/63  
DATE

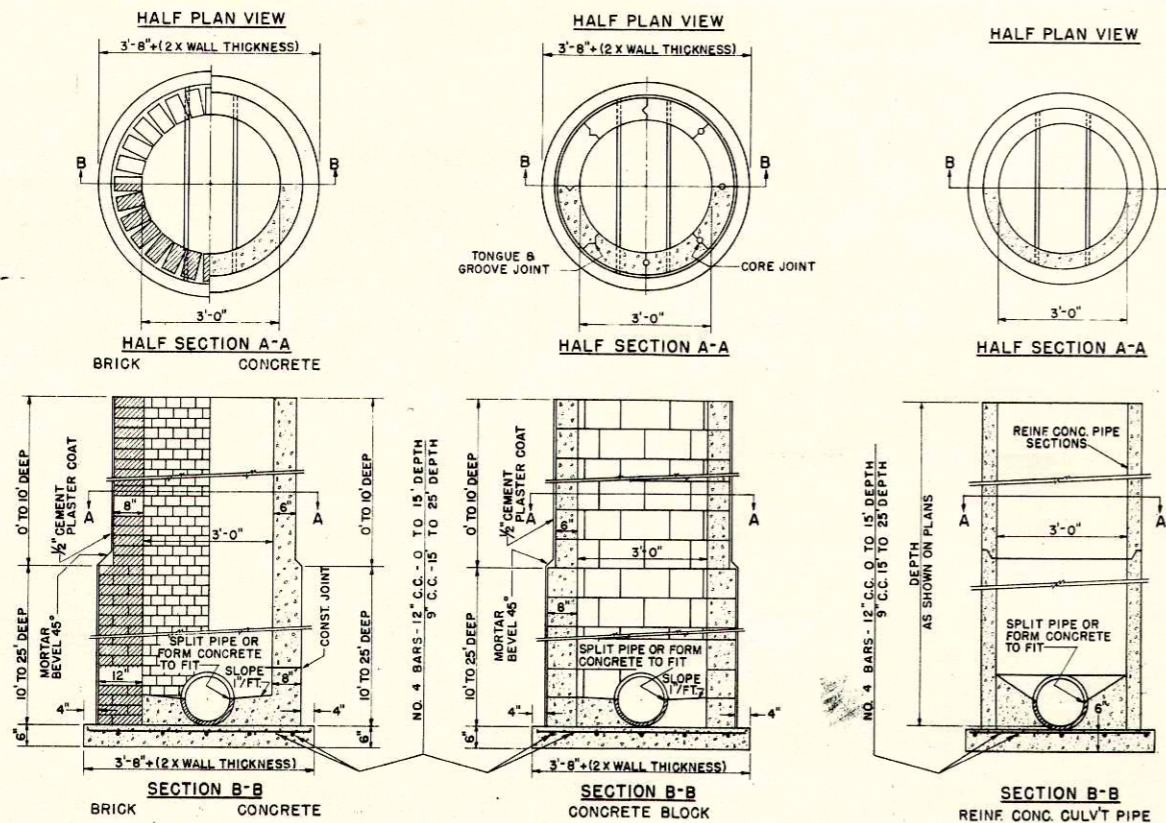
V. S. Pelt  
STATE HIGHWAY ENGINEER

PLATE NO. 5-3.5.2



132-32

TYPE 1



TYPE 2

**CONSTRUCTION NOTES**  
DETAILS RELATIVE TO THESE ITEMS SHALL CONFORM TO THE PERTINENT REQUIREMENTS OF THE STANDARD SPECIFICATIONS AND THE APPLICABLE SPECIAL PROVISIONS. STEPS SHALL BE INSTALLED IN ALL MANHOLES.

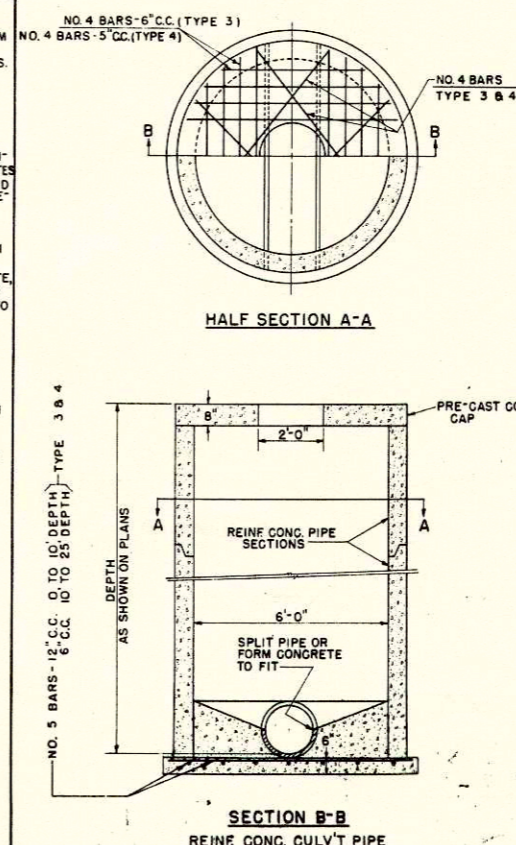
VARIAIONS IN DIMENSIONS AND DESIGN WILL BE PERMISSABLE PROVIDING EQUIVALENT CAPACITY AND STRENGTH ARE ATTAINED.

STRUCTURES ARE CALLED FOR ON THE PLANS AS "MANHOLES 1'-4" MANHOLES 2'-X ETC. THE NUMERAL DESIGNATES THE OPTIONAL MASONRY PORTION OF THE STRUCTURE AND THE LETTER DESIGNATES THE COVER TO BE USED THEREON.

THE REINFORCED CONCRETE TOPPER SECTION AS SHOWN FOR TYPE 1, REINFORCED CONCRETE CULVERT PIPE MANHOLE, MAY BE USED AS AN ALTERNATE CONE ON TYPE 1 BRICK, CONCRETE OR CONCRETE BLOCK MANHOLES.

WHEN ANY STRUCTURE IS CONSTRUCTED OF CONCRETE, CONCRETE BLOCK OR REINFORCED CONCRETE CULVERT PIPE, THE TOP OF THE MASONRY SHALL BE LEFT SUFFICIENTLY LOW TO PERMIT PROPER ADJUSTMENT OF COVER TO GRADE BY THE USE OF MORTAR AND BRICK.

**DESIGN NOTES**  
INSIDE DIMENSIONS FOR MANHOLES:  
USE 3" DIAMETER WHEN NECESSARY TO PLACE IN CONSTRICTED AREAS.  
USE 4" DIAMETER WHEN SEWER IS UNDER 18" IN DIAMETER.  
USE 6" DIAMETER OR 6" SQUARE WHEN SEWER IS 18" TO 34" DIAMETER.



TYPE 3

"A" BARS - NO. 4 BARS - 12" C.C. - 0 TO 10' DEPTH  
6" C.C. - 10' TO 25' DEPTH  
"B" BARS - NO. 4 BARS - 12" C.C. - 0 TO 10' DEPTH  
10" C.C. - 10' TO 25' DEPTH  
"C" BARS - NO. 5 BARS - 12" C.C. - 0 TO 10' DEPTH  
6" C.C. - 10' TO 25' DEPTH

TYPE 4

FOR SEWER GREATER THAN 54" DIAMETER SPECIAL DESIGN IS REQUIRED SHOWING INSIDE DIMENSION OF MANHOLE TO BE DIAMETER OF SEWER PLUS 18". SPECIAL DESIGN SHALL CONFORM TO THE GENERAL DETAILS FOR TYPE 3.

"A" BARS - NO. 5 BARS - 12" C.C. - 0 TO 10' DEPTH  
6" C.C. - 10' TO 25' DEPTH  
"B" BARS - NO. 4 BARS - 12" C.C. - 0 TO 10' DEPTH  
10" C.C. - 10' TO 25' DEPTH  
"C" BARS - NO. 5 BARS - 10" C.C. - 0 TO 10' DEPTH  
5" C.C. - 10' TO 25' DEPTH

MANHOLES

STATE HIGHWAY COMMISSION OF WISCONSIN

RECOMMENDED FOR APPROVAL:

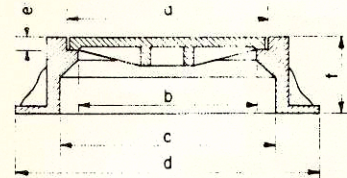
DATE 2-5-63

APPROVED:

DATE 2/6/63

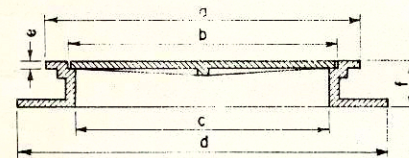
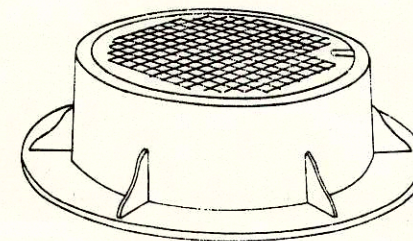
J. J. Pelt  
ENGINEER OF DESIGN

STATE HIGHWAY ENGINEER



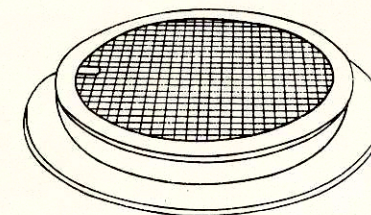
	a	b	c	d	e	f	Weight
TYPE "J"	23"	20 1/2"	25 1/4"	30"	1 1/2"	9"	10 Lbs.
TYPE "K"	32 1/2"	30"	30"	40"	1 1/2"	10"	750 Lbs.

TYPE "J" & "K"



	a	b	c	d	e	f	Weight
TYPE "L"	25"	24"	22 1/2"	33"	5/8"	4"	210 Lbs.
TYPE "M"	42"	37 1/2"	36"	47"	3/4"	4"	475 Lbs.

TYPE "L" & "M"



**CONSTRUCTION NOTES**

DETAILS RELATIVE TO THESE ITEMS SHALL CONFORM TO THE PERTINENT REQUIREMENTS OF THE STANDARD SPECIFICATIONS AND THE APPLICABLE SPECIAL PROVISIONS.

VARIATIONS IN DIMENSIONS AND DESIGN WILL BE PERMISSIBLE PROVIDING EQUIVALENT CAPACITY AND STRENGTH ARE ATTAINED.

MANHOLES ARE CALLED FOR ON THE PLANS AS "MANHOLES 1-J", "MANHOLES 2-K" ETC., THE NUMERAL DESIGNATES THE MASONRY PORTION OF THE STRUCTURE AND THE LETTER DESIGNATES THE FIXTURE TO BE USED THEREON. MANHOLE FRAMES AND COVERS SUBJECT TO TRAFFIC TO BE MACHINED OR NON-ROCKING TYPE.

**DESIGN NOTES**

TYPES "J" & "K" TO BE USED WHERE FACILITY WILL BE SUBJECT TO TRAFFIC.

TYPES "L" & "M" TO BE USED WHERE FACILITY WILL NOT BE SUBJECT TO TRAFFIC.

**MANHOLE COVERS**

STATE HIGHWAY COMMISSION OF WISCONSIN

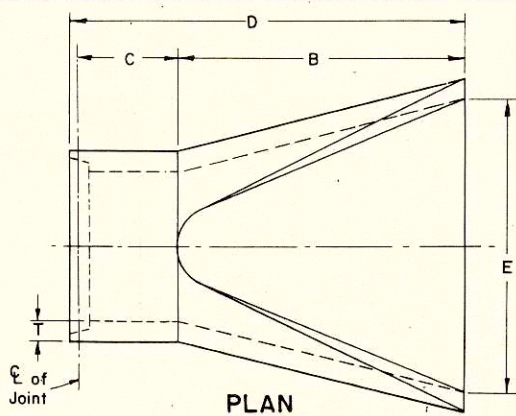
RECOMMENDED FOR APPROVAL

DATE 1/27/53 Carl Black  
CONSTRUCTION ENGINEER

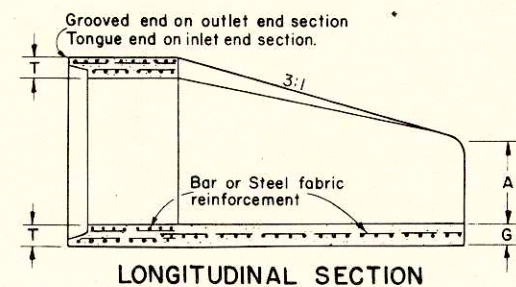
APPROVED:

DATE 1/27/53 E. G. Reithman  
STATE HIGHWAY ENGINEER

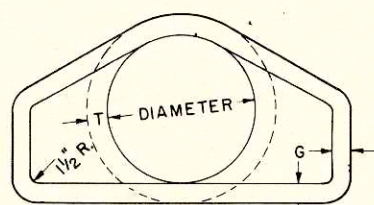
DRAWN LJD  
CHECKED



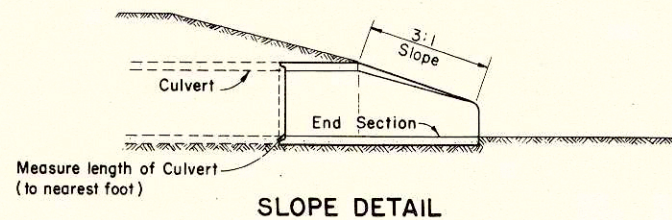
PLAN



LONGITUDINAL SECTION



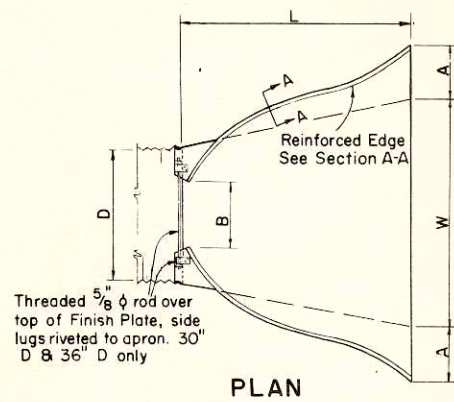
END VIEW



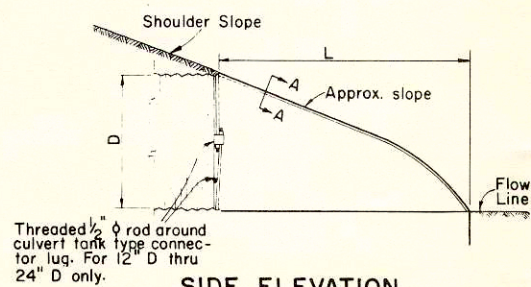
SLOPE DETAIL

DIA.	APPROX WEIGHT/SECTION	SLOPE	T	A	B	C	D	E	G
18"	990	3 to 1	2 1/2"	9"	27"	46"	73"	36"	2 1/2"
21"	1280	3 to 1	2 3/4"	9"	36"	37 1/2"	73 1/2"	42"	2 3/4"
24"	1520	3 to 1	3"	9 1/2"	43 1/2"	30"	73 1/2"	48"	3"
27"	1930	3 to 1	3 1/4"	10 1/2"	49 1/2"	24"	73 1/2"	54"	3 1/4"
30"	2190	3 to 1	3 1/2"	12"	54"	19 3/4"	73 3/4"	60"	3 1/2"
36"	4100	3 to 1	4"	15"	63"	34 3/4"	97 3/4"	72"	4"
42"	5380	3 to 1	4 1/2"	21"	63"	35"	98"	78"	4 1/2"
48"	6550	3 to 1	5"	24"	72"	26"	98"	84"	5"

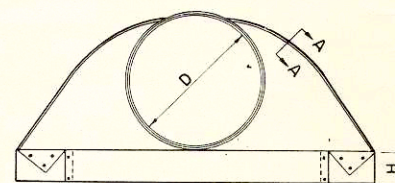
REINFORCED CONCRETE APRON ENDWALLS



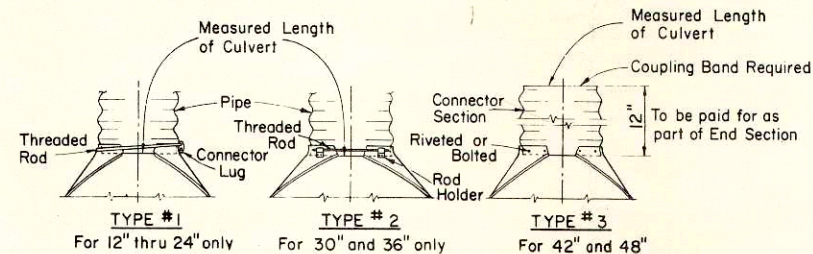
PLAN



SIDE ELEVATION



END VIEW



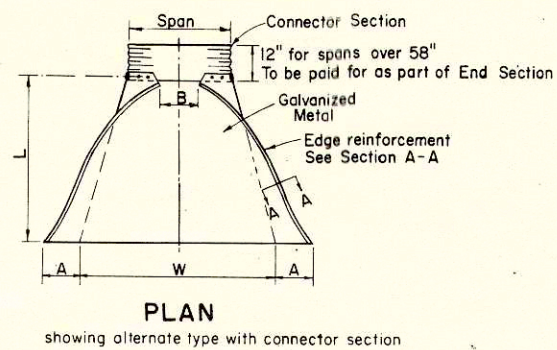
CONNECTION DETAILS

D Pipe Diam.	Gage Min.	Dimensions					Approx. Slope	Fabrication Remarks
		A ± 1"	B Max.	H ± 1"	L ± 1/2"	W ± 2"		
18"	16	8"	10"	6"	31"	36"	2 1/2 to 1	1 Piece
21"	16	9"	12"	6"	36"	42"	"	"
24"	16	10"	13"	6"	41"	48"	"	"
30"	14	12"	16"	8"	51"	60"	"	"
36"	14	14"	19"	9"	60"	72"	"	2 Pieces, C Splice
42"	12	16"	22"	11"	69"	84"	"	"
48"	12	18"	27"	12"	78"	90"	2 1/4 to 1	"

Note: All splices to be lap riveted or bolted.

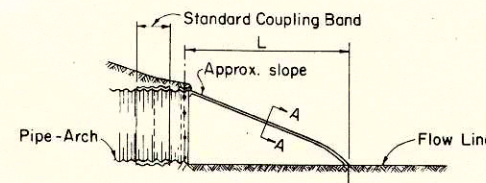
METAL AND ALUMINUM APRON ENDWALLS

APRON ENDWALLS FOR CULVERT PIPE

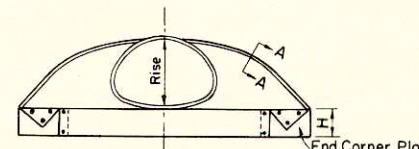


PLAN

showing alternate type with connector section

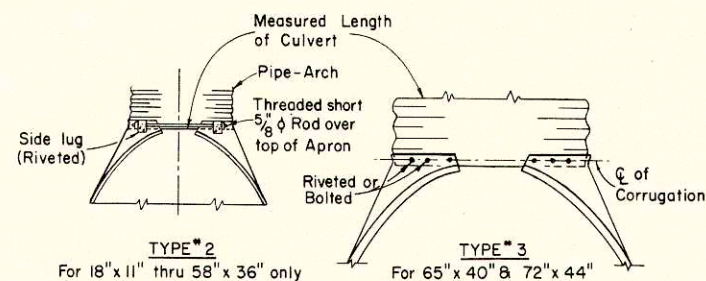


SIDE ELEVATION



END VIEW

Note: End Corner Plates may be fastened to apron proper by bolts or rivets which will hold the surfaces tightly together.



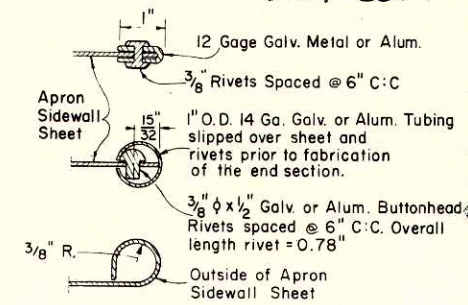
CONNECTION DETAILS

Pipe - Arch Dimensions	Span	Rise	Gage Min.	Dimensions					Approx. Slope	Fabrication Remarks
				A ± 1"	B Max.	H ± 1"	L ± 1/2"	W ± 2"		
18"	11"	16"	7"	9"	6"	19"	30"	2 1/2 to 1	1 Piece	
22"	13"	16"	7"	10"	6"	23"	36"	"	"	
25"	16"	16"	8"	12"	6"	28"	42"	"	"	
29"	18"	16"	9"	14"	6"	32"	48"	"	"	
36"	22"	14"	10"	16"	6"	39"	60"	"	"	
43"	27"	14"	12"	18"	8"	46"	75"	"	"	
50"	31"	12"	13"	21"	9"	53"	85"	"	2 Pieces, C Splice	
58"	36"	12"	18"	26"	12"	63"	90"	"	"	
65"	40"	12"	18"	30"	12"	70"	102"	2 1/4 to 1	"	
72"	44"	12"	18"	33"	12"	77"	114"	"	3 Pieces, 2 Splices equal distance from C	

Note: All splices to be lap riveted or bolted.

APRON ENDWALLS FOR PIPE ARCH

13.4-32



SECTION A-A

GENERAL NOTES

Details of construction not shown on this drawing shall conform to the pertinent requirements of the Standard Specifications and the applicable Special Provisions.

Reinforced concrete apron endwalls shall conform to the pertinent requirements of the Standard AASHTO Designation: M170, Class II (Wall B).

Metal apron endwalls shall conform to the pertinent requirements of the Standard AASHTO Designation: M36.

Aluminum apron endwalls shall conform to the pertinent requirements of the Standard AASHTO Designation: M-196-62 I

NOTE:

Variations of the dimensions and designs shown hereon will be permitted providing equivalent capacity and structural integrity are attained, and prior approval of the Engineer is obtained.

Reinf. concrete apron endwalls shall be used with concrete pipe culvert installations, metal apron endwalls shall be used with corr. metal pipe culvert installations, and Aluminum endwalls shall be used with corr. aluminum culvert installations.

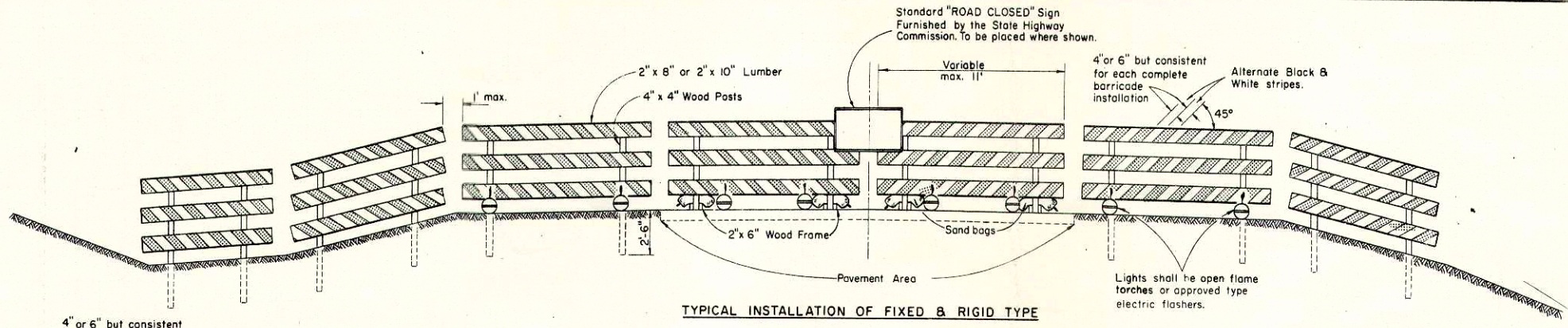
APRON ENDWALLS FOR CULVERT PIPE & PIPE ARCH

STATE HIGHWAY COMMISSION OF WISCONSIN

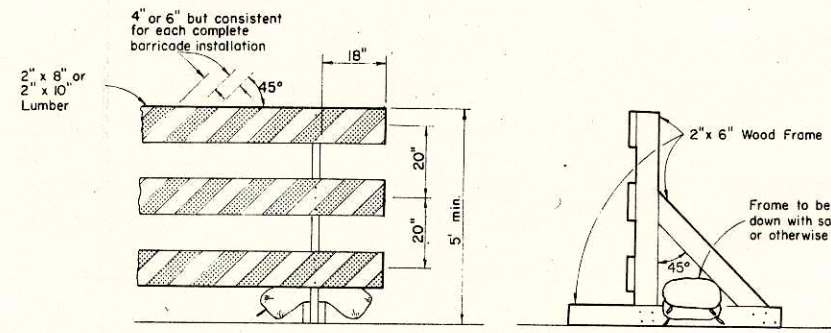
RECOMMENDED FOR APPROVAL  
DATE: 4/9/65  
E. J. Rusk  
CHIEF DESIGN ENGINEER

DATE: 4/12/65  
E. C. Ruetimann  
STATE HIGHWAY ENGINEER

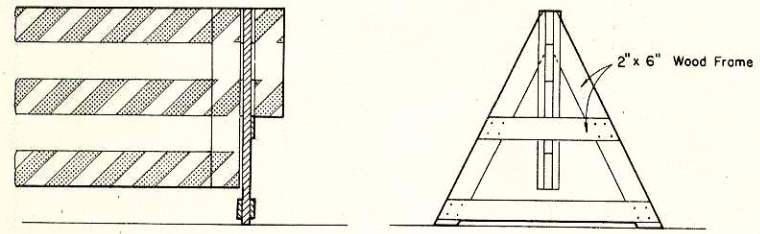
PLATE NO. 6-2.6.4.



TYPICAL INSTALLATION OF FIXED & RIGID TYPE

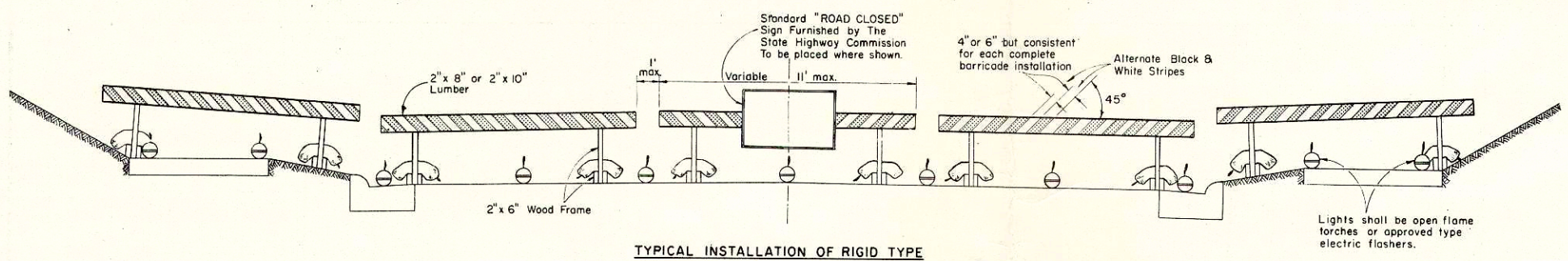


ALTERNATE TYPE INSTALLATION (RIGID)

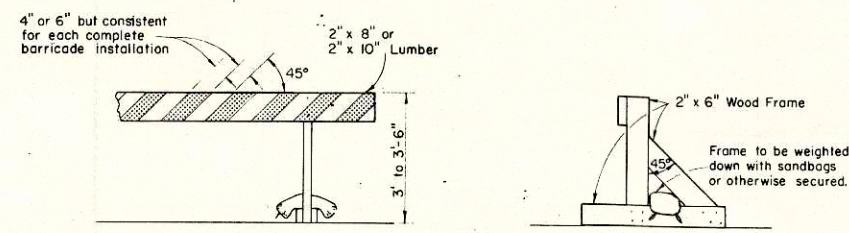


ALTERNATE TYPE INSTALLATION (DEMOUNTABLE)

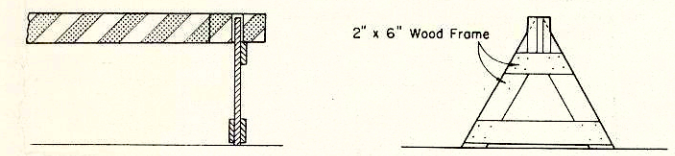
**CLASS I BARRICADE**



TYPICAL INSTALLATION OF RIGID TYPE



ALTERNATE TYPE INSTALLATION (RIGID)



ALTERNATE TYPE INSTALLATION (DEMOUNTABLE)

**CLASS II BARRICADE**

**GENERAL NOTES:**

The Contractor shall construct, place and maintain barricades as shown on this drawing and as required by the Standard Specifications for the duration of the project at all points of highway closure. Barricades shall be painted as shown herein and structurally maintained for maximum visibility at all times, for the duration of the respective project.

**CLASS I BARRICADE**

Shall be used at points of closure where road is closed to traffic. Gates or movable sections of barricade shall be provided when necessary, for access of equipment or other authorized vehicles only.

**CLASS II BARRICADE**

May be used only where the hazard to traffic is relatively small, and for the more or less continuous delimiting of a restricted roadway, or for temporary daytime use.

**LUMBER & FABRICATION**

Lumber shall be of a grade structurally sound and sufficiently rigid to satisfactorily support and maintain the purpose and intent of a barricade facility. The fabrication of the barricade shall be in accord with good pertinent wood-working practices.

**PAINTING**

Barricades shall be painted as shown herein in alternate black and white stripes. Black stripes shall be painted with weather resistant and durable black paint. White stripes shall be painted a prime coat of good grade wood primer, followed by two coats of white 'Coddit Reflective Liquid' (Minnesota Mining Co.) or equivalent, or reflective sheeting wide angle, flat top 'Scotchlite' brand material (Minnesota Mining Co.) or equivalent.

**DIRECTION OF DIAGONAL STRIPES**

Where a barricade extends entirely across the roadway and no vehicle access provision, the stripes shall slope downward toward the highway centerline. Where vehicle access is permitted, the stripes shall slope downward in the direction toward which vehicles must turn in detouring. Where both right and left turns are provided for, the stripes shall slope downward in both directions from the center.

**MEASUREMENT & PAYMENT**

All barricades, unless otherwise provided for in the plans and/or special provisions shall be furnished, placed, and maintained as noted above, and no additional compensation will be allowed but shall be construed to be included in the price bid for other items.

**NOTE:**

Lighting devices for barricades shall conform to the requirements of the Standard Specifications.

**NOTE:**

All lumber or timber dimensions shown herein are nominal.

**CONSTRUCTION BARRICADE**

STATE HIGHWAY COMMISSION OF WISCONSIN

RECOMMENDED FOR APPROVAL:

DATE 2-5-63 J. J. Pelt ENGINEER OF DESIGN

APPROVED: E. C. Rustigan STATE HIGHWAY ENGINEER

DATE 2/4/63

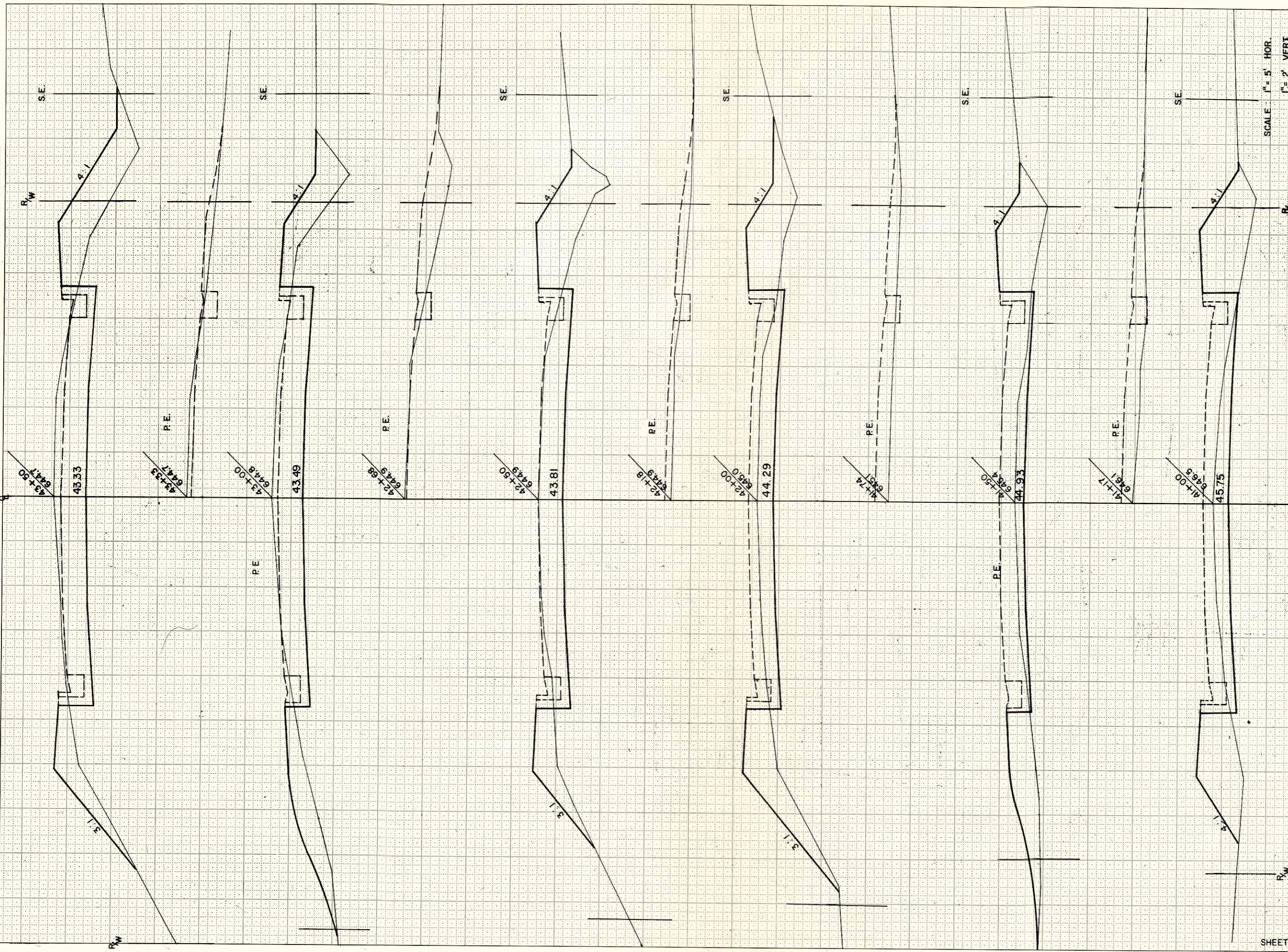
PLATE NO. 7-4.1.4





FINAL SURVEY SUBMITTED  
NOTE BOOK NO. 11  
PLOTTER PLATE AREA CHECKED  
DATE

DEK 12-87  
C.B.D. 10-84  
D.S. 11-84  
M.D.M. 12-84



SCALE 1" = 5' HOR  
1" = 2' VERT

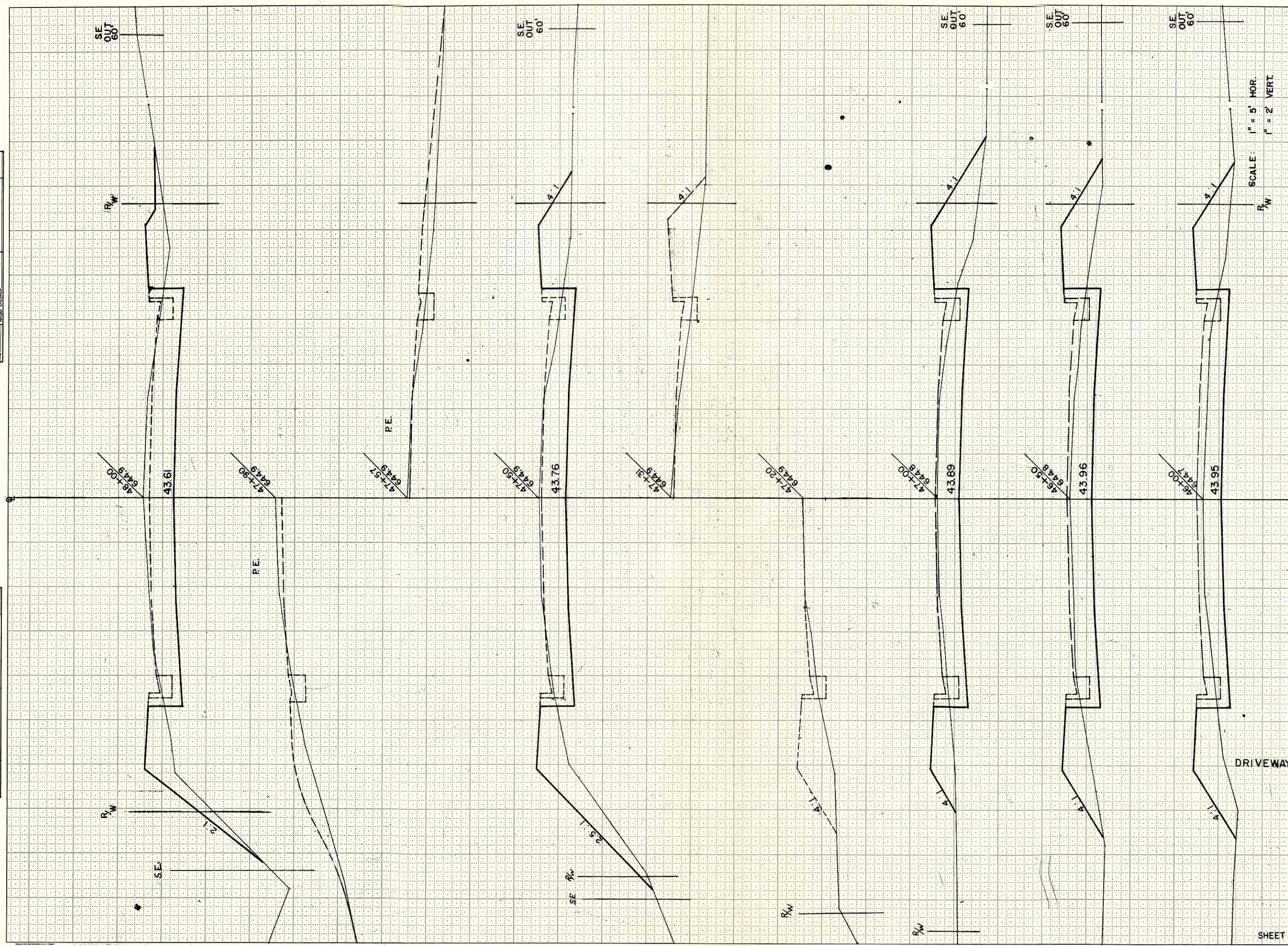
STATION		YARDAGE		
DISTANCE		EXCAVATION		FILL
		UNCL		
40				
+50		47		77
41				
+50		33		56
42				
+50		40		58
43				
+50		68		68
44				
+50		91		57
45				
+50		104		79
SHEET TOTAL		0		91
		383		495



B.F.R. REGION DIVISION	PROJECT	SHEET NUMBER	TOTAL SHEETS
4 WIS.	SO 616 (3)	17	32

FINAL SURVEY	SURVEYED	BY	DATE
NOTE BOOK NO.	PLOTTED		
	CHECKED		
	AREAS CHECKED		

ORIGINAL SURVEY	SURVEYED	BY	DATE
NOTE BOOK NO.	PLOTTED		
	CHECKED		
	AREAS CHECKED		



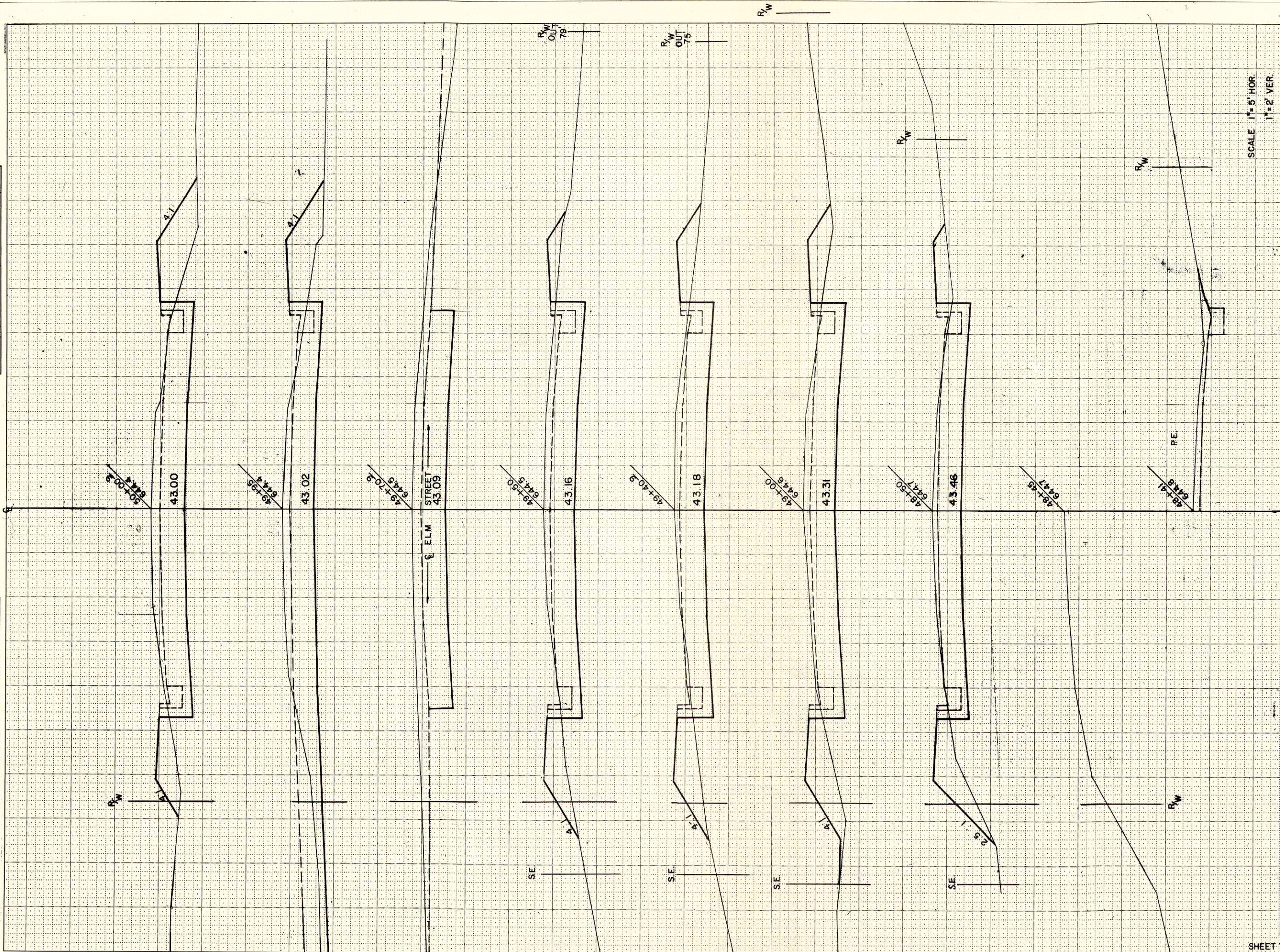
STATION	YARDAGE		
	EXCAVATION		
	UNCL		FILL
45			
+50	67		61
46			
+50	73		59
47			
+50	81		58
48			
+50	87		62
48			
+50	98		57
SHEET TOTAL	406		306

FUNCTIONAL CROSS SECTION - OPEN DOTTED  
CHARLES BRUNING COMPANY, INC.

NOTE BOOK TEMPLATE  
 MEAS. CHECKED  
 NO.

1/2-64  
 12-64  
 12-64  
 12-64  
 MEAS. CHECKED

B.P.R. REGION DIVISION	PROJECT	SHEET NUMBER	TOTAL SHEETS
4 WIS.	SO 616(3)	18	32

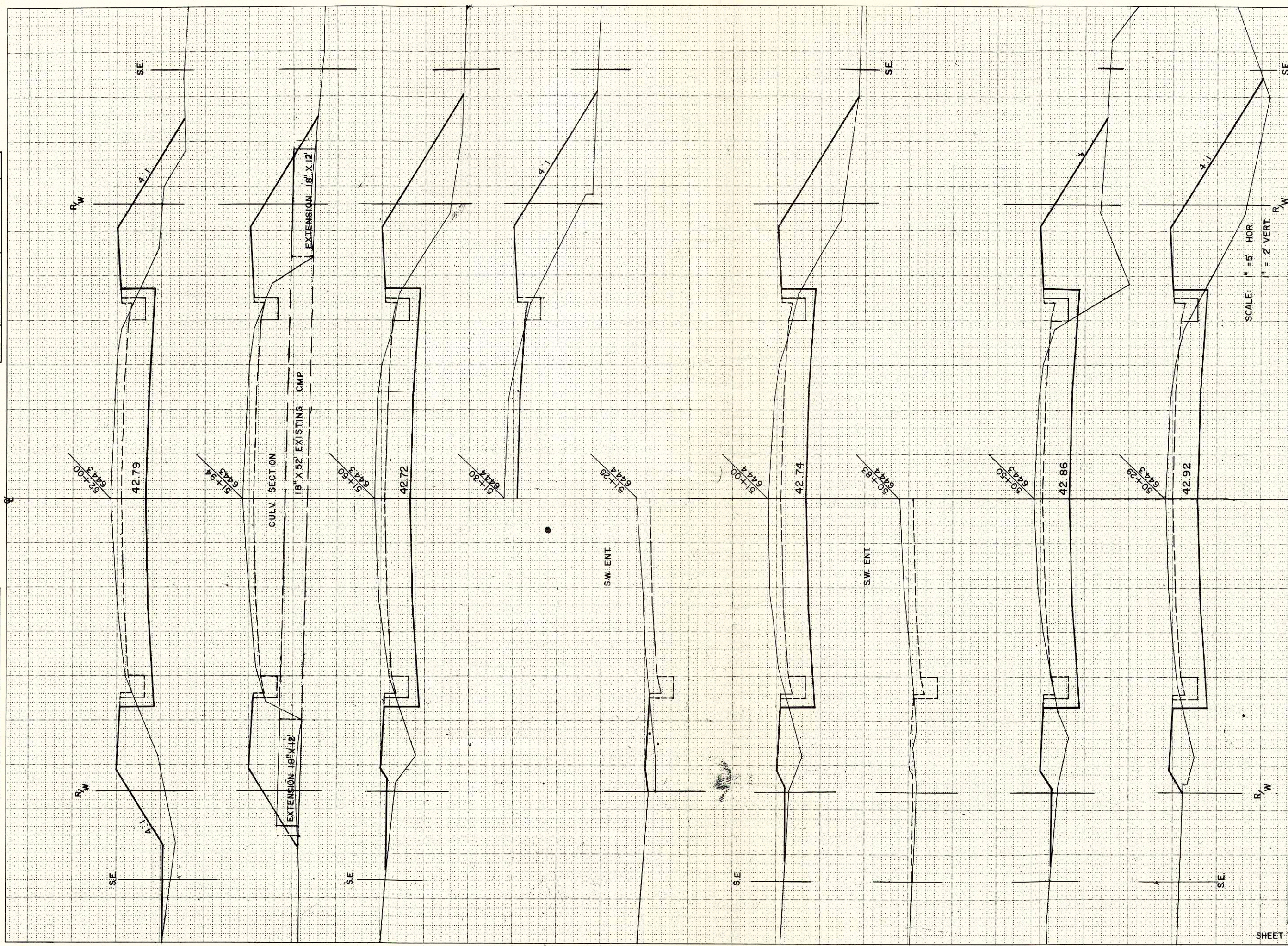


SCALE 1" = 5' HOR.  
 1" = 2' VER.

STATION	DISTANCE	YARDAGE	
		EXCAVATION	
		UNCL	FILL
48			
48	103		43
+50	110		51
49			
49	118		37
49			
+50	120		37
50			
+000			
SHEET TOTAL		457	183

FINAL SURVEY NOTE BOOK NO. \_\_\_\_\_  
 SURVEYED BY \_\_\_\_\_ DATE \_\_\_\_\_  
 DRAWN BY \_\_\_\_\_  
 CHECKED BY \_\_\_\_\_  
 AREAS CHECKED \_\_\_\_\_

ORIGINAL SURVEY NOTE BOOK NO. 111  
 CHECKED BY \_\_\_\_\_  
 SURVEYED BY \_\_\_\_\_ DATE \_\_\_\_\_  
 DRAWN BY \_\_\_\_\_  
 CHECKED BY \_\_\_\_\_  
 AREAS CHECKED \_\_\_\_\_



B.P.R. REGION DIVISION		PROJECT	SHEET NUMBER	TOTAL SHEETS
4 WIS.		SO 616 (3)	19	32

STATION	YARDAGE	
	EXCAVATION	
	UNCL	FILL
50		
+009	65	43
+29	48	43
+50	124	86
51	131	82
+50	126	88
52		

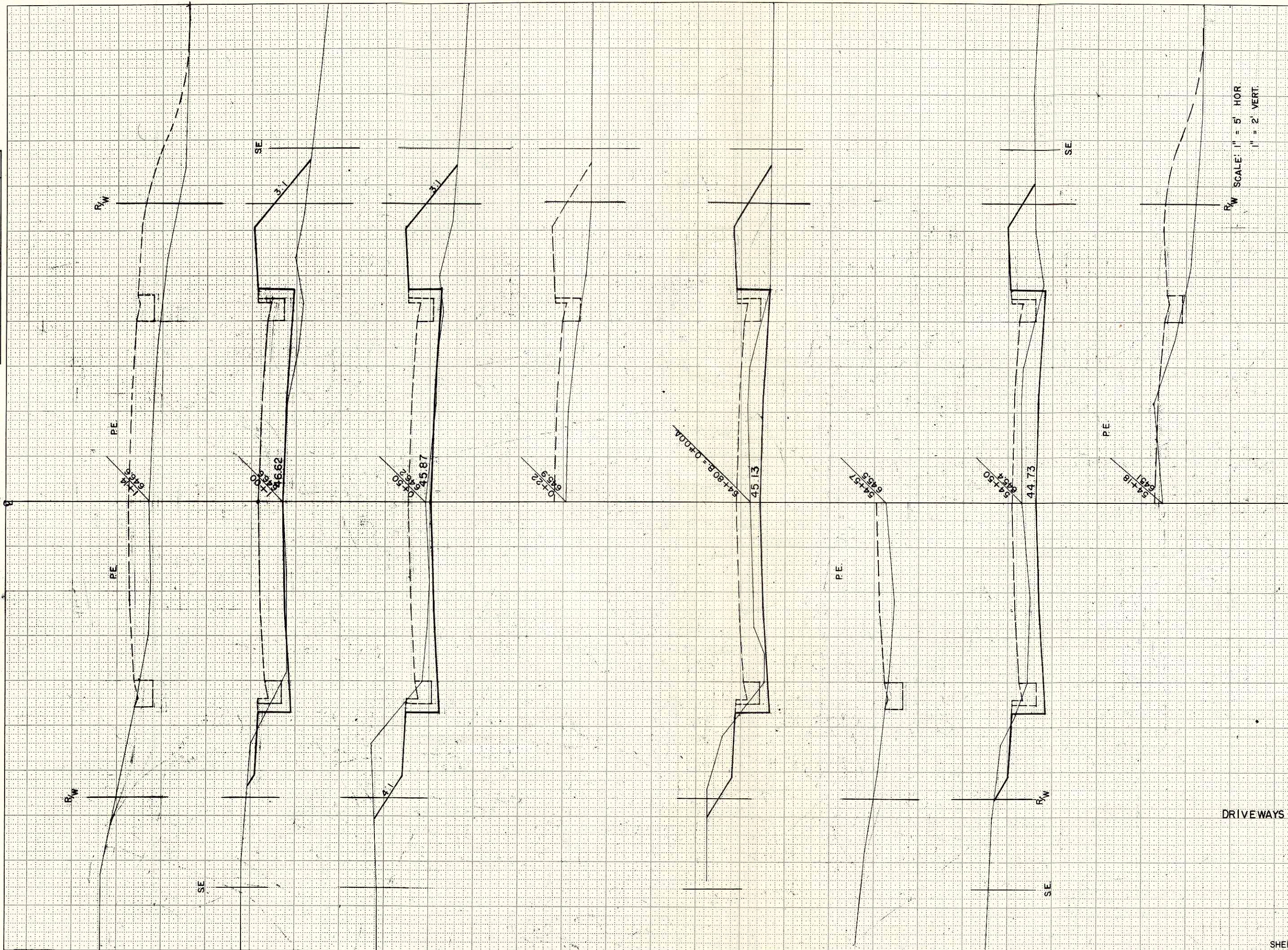
SHEET TOTAL	
494	342



B.P.R. REGION DIVISION	PROJECT	SHEET NUMBER	TOTAL SHEETS
4 WIS.	S 0616(3)	21	32

FINAL SURVEY	BY	DATE
NOTED BOOK		
NO.		

ORIGINAL SURVEY	DATE
NOTED BOOK	
NO. 11	
DATE	



R.W. SCALE: 1" = 5' HOR  
1" = 2' VERT

STATION	DISTANCE	YARDAGE	
		EXCAVATION	
		UNCL	FILL
54			
+ 50	65		27
+ 80B=	56		18
0+00A	46		75
+ 50	24		50
<b>DRIVEWAYS</b>			
		0	11
<b>SHEET TOTAL</b>		191	181















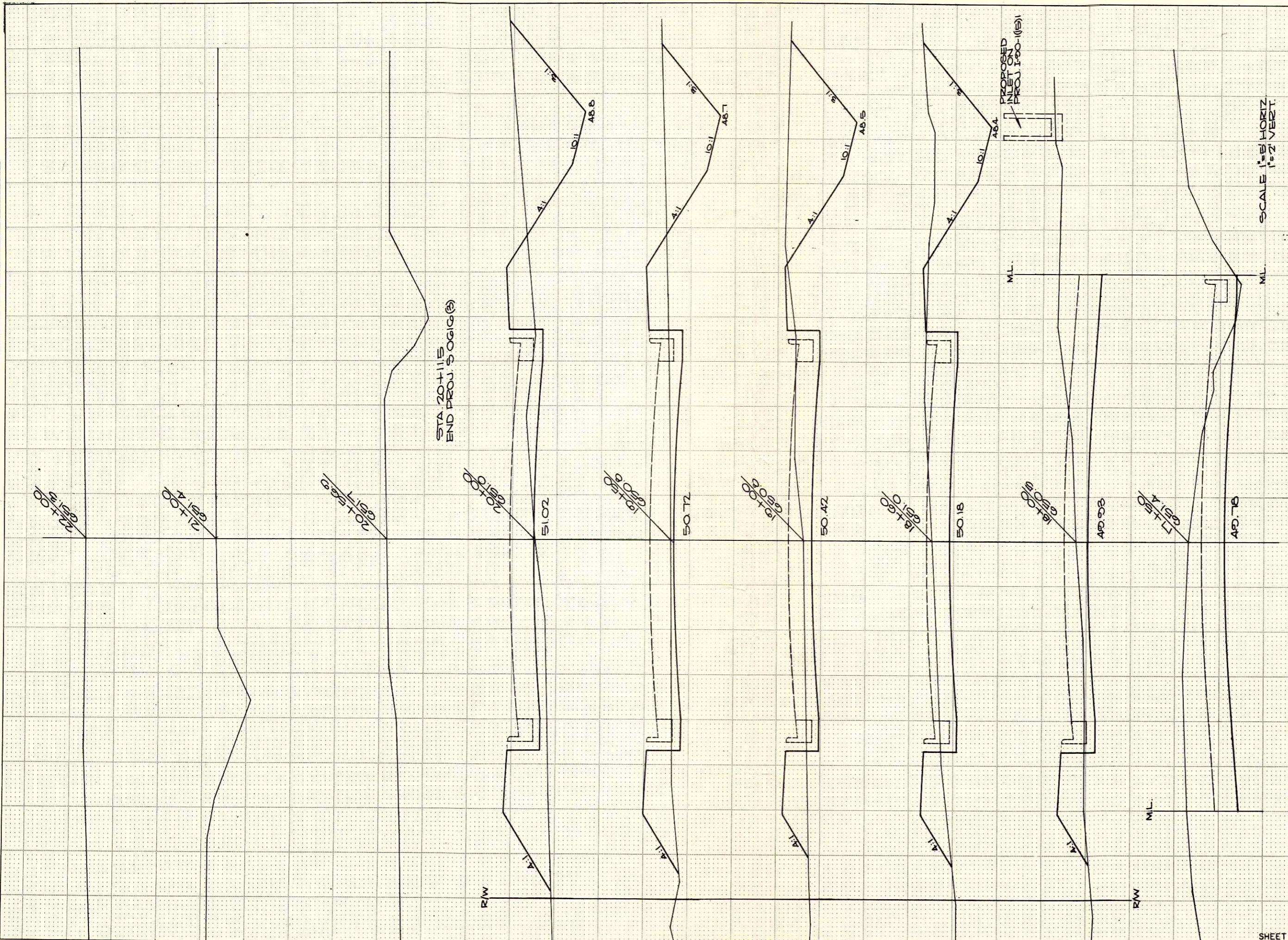




NOTE BOOK TEMPLATE  
NO. 1  
AREAS CHECKED

NOTE BOOK TEMPLATE  
NO. 2  
AREAS CHECKED

B.P.R. REGION	PROJECT	SHEET NUMBER	TOTAL SHEETS
4 WIS.	50616(3)	30	32



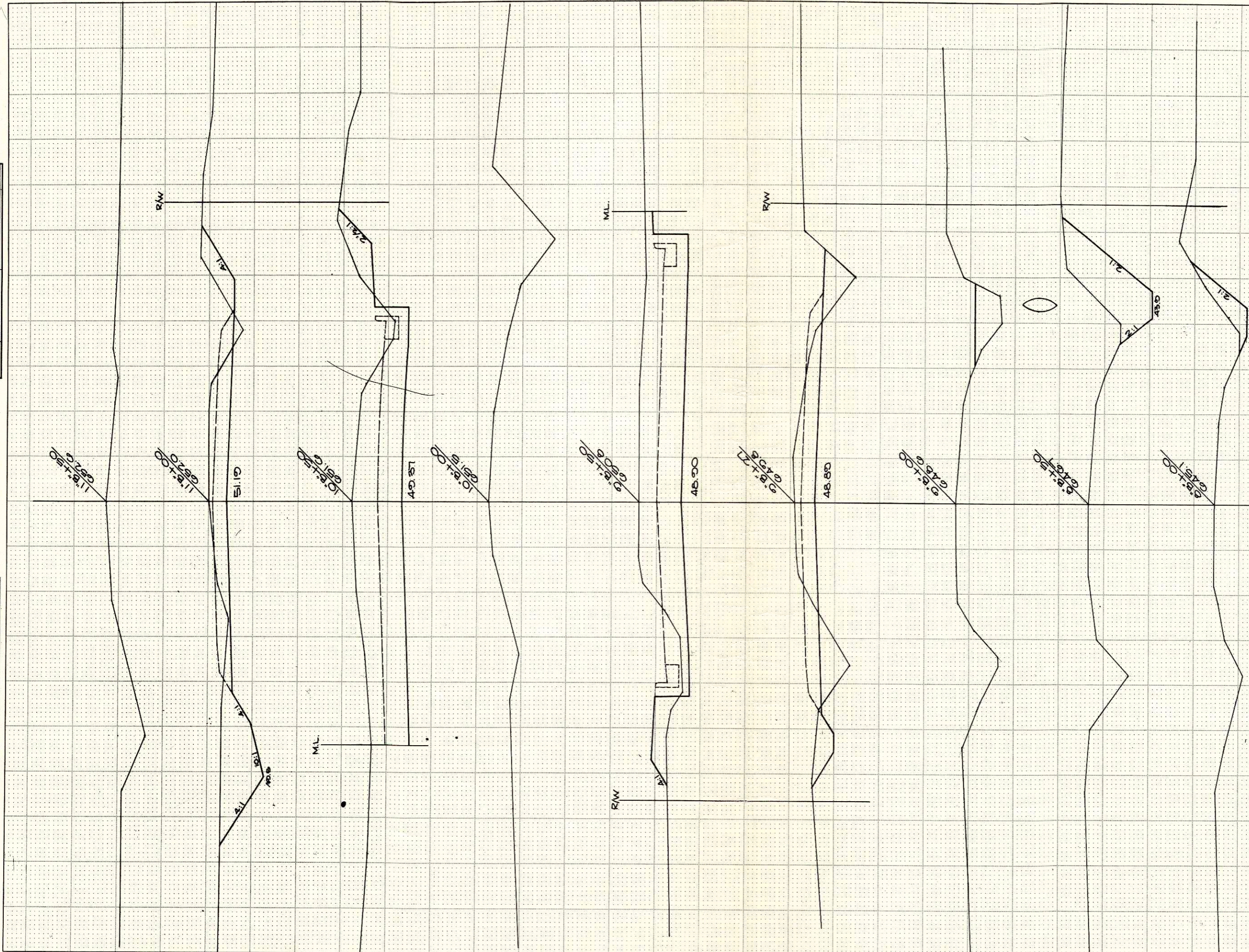
STATION	DISTANCE	YARDAGE	
		EXCAVATION	FILL
		UNCL.	
20+11.5	22		7
50	88		50
50+5	111		38
50+9	116		9
50+8	145		22
50+6	121		0
50+0	52		0
51+0			
51+5			
51+10			
51+15			
51+20			
51+25			
51+30			
51+35			
51+40			
51+45			
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51+75			
51+80			
51+85			
51+90			
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52+25			
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FINAL SURVEY BY DATE  
 SURVEYED BY  
 PLOTTED BY  
 NOTE BOOK NO.  
 TEMPLATE NO.  
 AREAS CHECKED

ORIGINAL SURVEY BY DATE  
 SURVEYED BY  
 PLOTTED BY  
 NOTE BOOK NO.  
 TEMPLATE NO.  
 AREAS CHECKED

B.P.R. REGION DIVISION	PROJECT	SHEET NUMBER	TOTAL SHEETS
4 WIS.	50616(B)	31	32



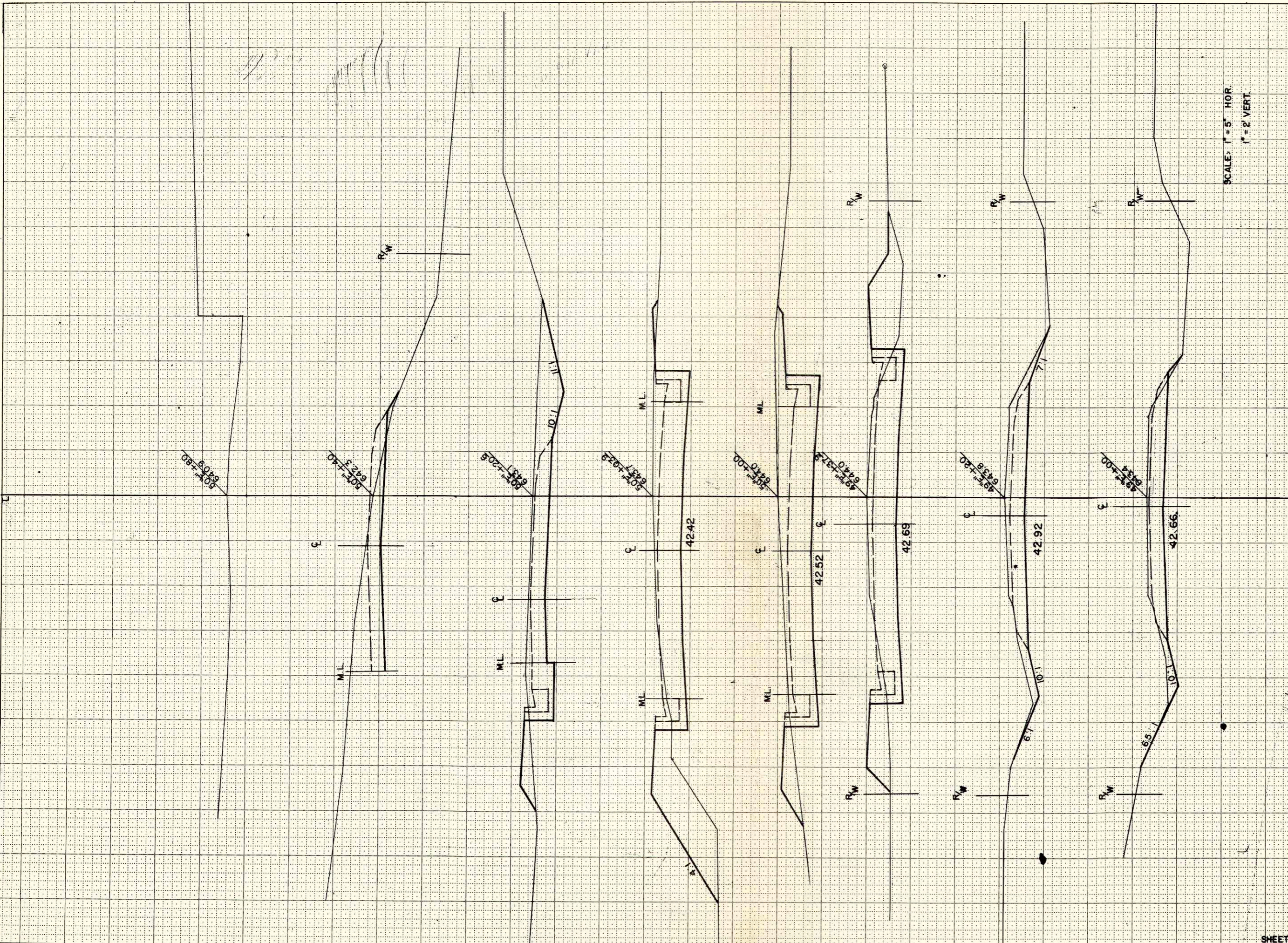
SCALE 1"=5' HORIZ.  
 1"=2' VERT.

STATION	DISTANCE	YARDAGE	
		EXCAVATION	
		UNCL	FILL
0+00			
0+24	24		0
0+39	9		4
0+53	13		9
0+68	48		7
0+80	20		4
0+100			
0+105	44		0
0+131	131		0
0+155	24		0
0+179	11		0
SHEET TOTAL		340	24

NOTE BOOK TEMPLATE  
 MEAS. AREAS CHECKED

NO. 111  
 MEAS. AREAS CHECKED  
 P.B.D. H.D.M.  
 12-22  
 12-22

B.P.R. REGION DIVISION	PROJECT	SHEET NUMBER	TOTAL SHEETS
4 WIS.	S 0616 (3)	32	32



SCALE: 1" = 5' HOR.  
 1" = 2' VERT.

STATION	DISTANCE	YARDAGE		
		UNCL	EXCAVATION	FILL
49E				
+00		19		1
+20		24		7
+379				
SHEET TOTAL		43		8