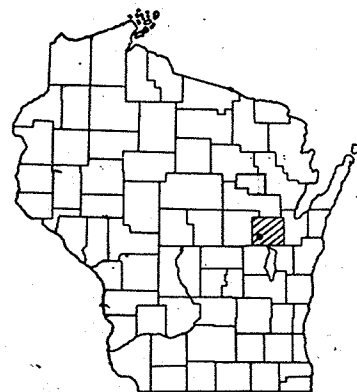


M-3

INDEX OF SHEETS

- SHEET NO. 1 TITLE
- SHEET NO. 2-2.1 TYPICAL CROSS SECTIONS
- SHEET NO. 3 ESTIMATE OF QUANTITIES
- SHEET NO. 2 MISCELLANEOUS QUANTITIES
- SHEET NO. 4-4.6 RIGHT OF WAY PLAT
- SHEET NO. 5-16 PLAN AND PROFILE STA. 9+67.0 TO STA. 323+71.13
- SHEET NO. 17-17.11 STANDARD DETAILS
- SHEET NO. 18-46 DRAINAGE STRUCTURES
- SHEET NO. 47-85 CROSS SECTIONS



STATE OF WISCONSIN DEPARTMENT OF TRANSPORTATION DIVISION OF HIGHWAYS

PLAN AND PROFILE OF PROPOSED HORTONVILLE - S.T.H. 54 C.T.H. "M" OUTAGAMIE COUNTY PROJECT S 0395 (I)

COUNTY AND HIGHWAY	ROUTE AND SECTION	CLASS AND AGREEMENT	S.P.D. REGION DIVISION	SHEET NUMBER	TOTAL SHEETS
44.6	395.0	STATE FEDERAL 13.1	4 WIS.	1	85

RECEIVED

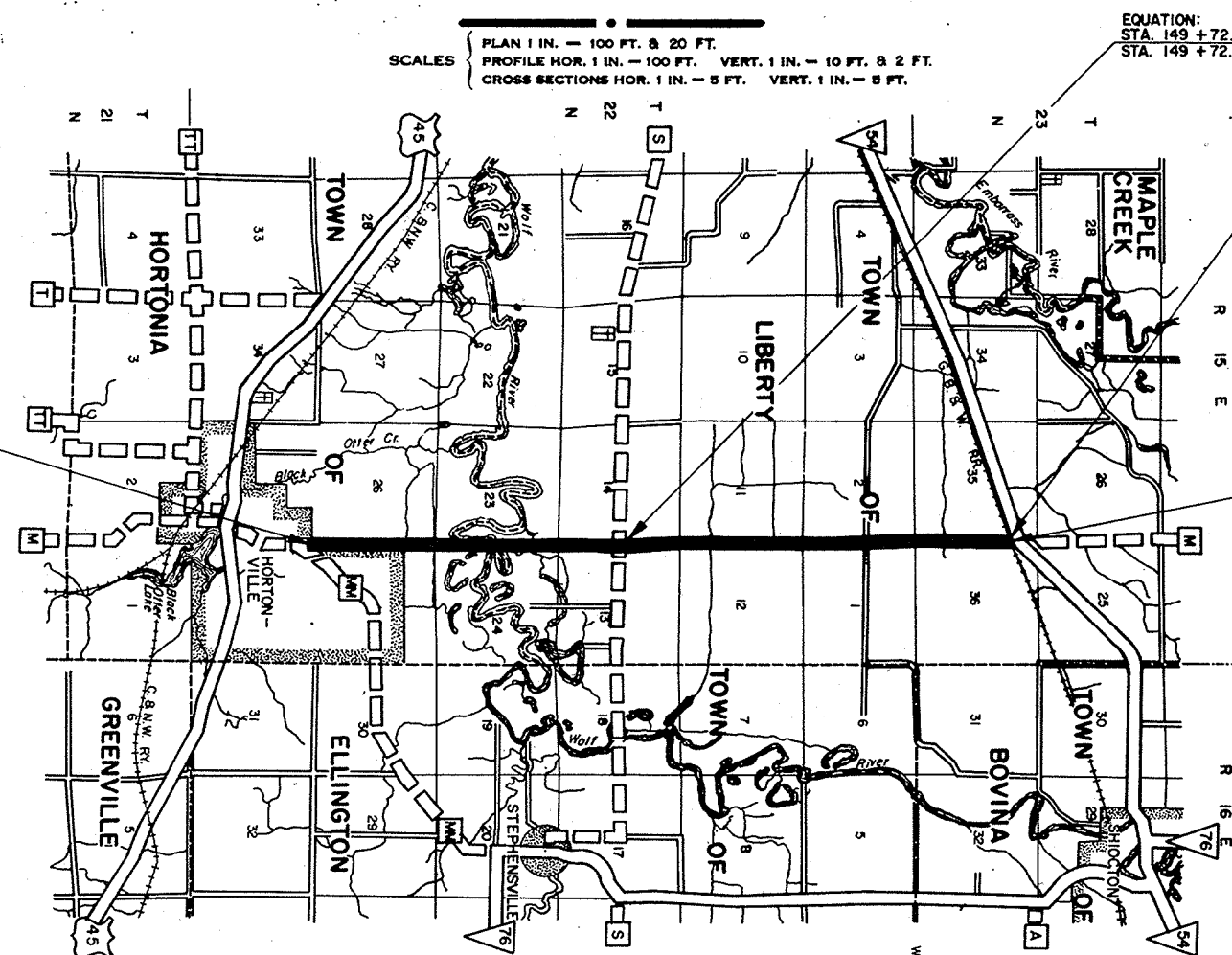
DEC 7 1967

OUTAGAMIE COUNTY
HIGHWAY COMMISSION

DESIGN DESIGNATION

1967 A.D.T.	=	400
1985 A.D.T.	=	1,100
D.H.V.	=	154
D.	=	60%
T.	=	10% OF A.D.T.
V.	=	50 M.P.H.

STA 9+67.0 BEGIN
PROJECT S 0395 (I)
770' S. & 43' E. OF THE NORTH WEST
CORNER OF SECTION NUMBER 36,
TOWNSHIP 22 NORTH, RANGE 15 EAST.



EQUATION:
STA. 149 + 72.37 BACK +
STA. 149 + 72.22 AHEAD

RAILROAD
STA. 321 + 59.94 - STA. 321 + 73.42
EXCEPTION TO NET C. LENGTH

STA. 323 + 71.13 END
PROJECT S 0395 (I)
617 FEET SOUTH AND 34 FEET EAST OF THE
NORTHWEST CORNER OF SECTION NUMBER 36,
TOWNSHIP 23 NORTH, RANGE 15 EAST.

CONVENTIONAL SIGNS

- STATE LINE
- COUNTY LINE
- TOWNSHIP OR RANGE LINE
- SECTION LINE
- NEW RIGHT OF WAY LINE
- PRESENT RIGHT OF WAY LINE
- WIRE FENCE (WOVEN BARBED)
- LOT LINE
- CORPORATE OR CITY LIMITS
- PROPERTY LINE
- TRAVELED WAY OR P.E.
- RAILROADS
- BASE OR SURVEY LINE
- UNCLASSIFIED EXCAVATION
- CORRUGATED METAL CULVERT PIPE
- CORRUGATED METAL PIPE ARCH

- CULVERTS IN PLACE
- CULVERTS REQUIRED
- DROP INLET
- POWER POLE
- TELEPHONE OR TELEGRAPH POLE
- RIGHT OF WAY MARKERS
- REFERENCE STAKE FOR HUBS ONLY
- MARSH
- HEDGE
- TREES
- GROUND ELEVATION
- GRADE ELEVATION
- CULVERT PIPE
- RIGHT OF WAY
- CLASS III

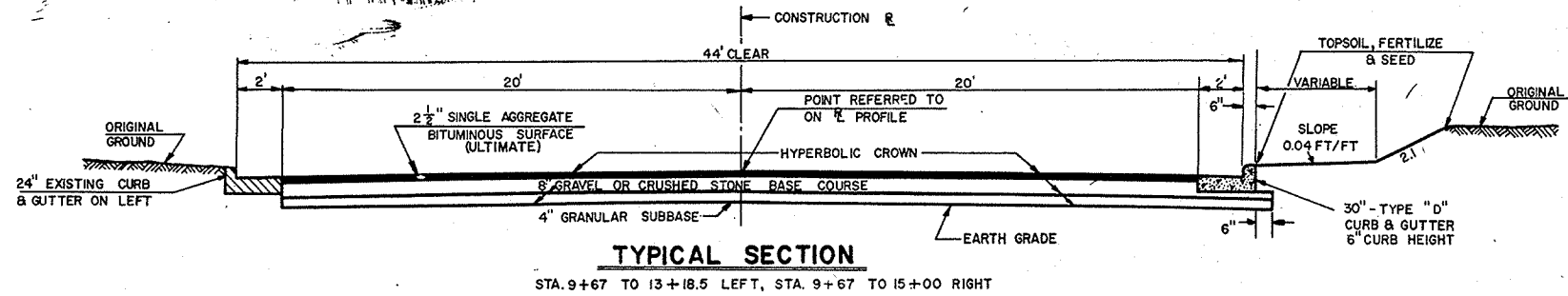
LAYOUT

SCALE ONE MILE

NET LENGTH OF CENTERLINE = .146 MI. (MUNICIPAL)
= 5.799 MI. (RURAL)
TOTAL NET LENGTH OF CENTERLINE = 5.945 MI.

STATE OF WISCONSIN DEPARTMENT OF TRANSPORTATION DIVISION OF HIGHWAYS MADISON, WISCONSIN	
SURVEYOR	D.G.N. NOTE BOOK 726, 727
DISTRICT COMPUTER	W.R.K. R.G.P. M.O. CHECKER W.H.B.
DISTRICT CHECKER	R.L.J. CORRECT
CORRECT:	
DATE	10-27-67
RECOMMENDED FOR APPROVAL:	
DATE	11/1/67
APPROVED:	
DATE	11/14/67
DEPARTMENT OF COMMERCE BUREAU OF PUBLIC ROADS	
APPROVED:	
DATE:	
DIVISION ENGINEER	

S 0395 (I)



CLEARING & GRUBBING				
STATION TO STATION	CLEARING		GRUBBING	
	STA.	IN. DIA.	STA.	IN. DIA.
9+67 - 13+00		99		99
13+00 - 15+00	2		2	
15+00 - 18+00		86		86
18+00 - 20+00	2		2	
20+00 - 40+00		98		98
40+00 - 52+00	12		12	
52+00 - 55+00		*		*
55+00 - 95+00	40		40	
95+00 - 99+00		20		20
99+00 - 112+00	13		13	
112+00 - 115+00		*		*
115+00 - 134+00	19		19	
134+00 - 212+00		20		343
212+00 - 223+00	11		11	
223+00 - 282+00		30		350
282+00 - 305+00	23		23	
305+00 - 323+88		*		*
C.T.H. "MM"		81		81

NOTE: SURFACING & SHOULDERS NOT A PART OF THIS CONTRACT.

PROJECT	SHEET NUMBER	TOTAL SHEETS
S 0395 (1)	2	85

GENERAL NOTES

WHEN THE QUANTITY OF THE ITEMS OF SUBBASE, 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.

CUBIC YARDS OF FILL AS SHOWN ON THE PLAN PERTAINS TO EMBANKMENT CONSTRUCTED FROM UNCLASSIFIED EXCAVATION AND BORROW AND WAS COMPUTED WITH A SHRINKAGE ALLOWANCE VARYING FROM 20% TO 50% FOR UNCLASSIFIED EXCAVATION AND 20% IN THE CASE OF BORROW.

THE EXACT LOCATION AND LIMITS FOR DRIVEWAYS AND FIELD ENTRANCES SHALL BE DETERMINED BY THE ENGINEER IN THE FIELD.

PRIVATE UTILITY COMPANIES SHALL ADJUST OR MOVE ALL PRIVATELY OWNED FACILITIES TO FIT THE NEW CONSTRUCTION (POWER POLES, TELEPHONE POLES, GAS VALVES, ETC.)

CURB AND GUTTER RADIUS SHOWN ARE TO FRONT FACE OF CURB.

STANDARD DETAIL DRAWINGS

MARSH EXCAVATION	1-1.12
CONCRETE CURB & GUTTER & SURFACE DRAINS	3-1.17
MANHOLES	5-3.72
MANHOLE COVERS	5-3.8.3
APRON ENDWALLS FOR CULVERT PIPE & PIPE ARCH	6-26.5
CORRUGATED METAL PIPE ARCH	6-53.2
MARKER POST	7-13.5
STEEL PLATE BEAM GUARD	7-24.12
CONSTRUCTION BARRICADE	7-4.15
DITCH CHECKS, MORTAR RUBBLE MASONRY & SOD	8-13.1
SIDE ROAD DESIGN DETAILS	9-1.1.5
LANDMARK REFERENCE MONUMENTS	12-1.1.2

GRAVEL OR CRUSHED STONE BASE COURSE			
LOCATION	SEC. NO. 1 TONS	SEC. NO. 2 TONS	
MAINLINE	1,690	60,960	
P.E.S. & SIDE ROADS	350	2,000	
TOTALS	2,040	62,960	

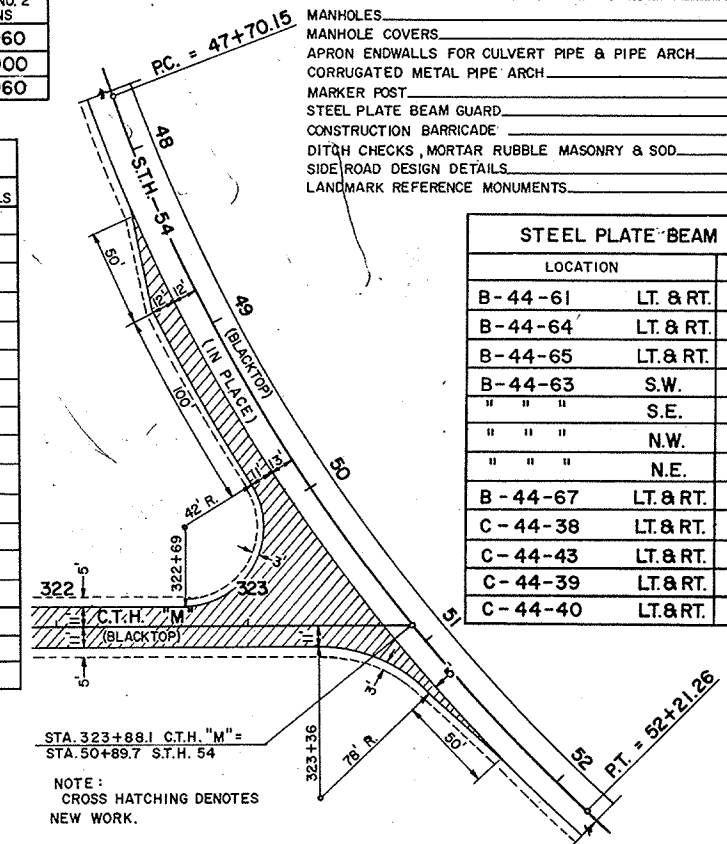
CROSS DRAIN & PRIVATE ENTRANCE PIPES					
STATION	DIAMETER	LENGTH	LOCATION	TYPE	APRON ENDWALLS
43+95	30"	30'	P.E. RT.	C.P. CLASS II	2
56+30	30"	30'	P.E. RT.	"	2
95+30	18"	42'	P.E. LT.	"	2
101+00	18"	48'	P.E. RT.	"	2
104+92	48"	72'	R.	"	2
117+68	48"	62'	R.	"	2
149+36	24"	42'	SD. RD. RT.	"	2
149+36	48"	44'	SD. RD. LT.	"	2
256+05.8	24"	54'	SD. RD. RT.	"	2
289+99.25	72" X 44"	44'	R.	C.M.P.A.	2
321+42	30"	58'	R.	C.P. CLASS III	2
321+60	36"	32'	R.R. LT.	"	2
29 P.E.S. @ 18" X 38'	1102'	LT. & RT.	"	"	52
16 P.E.S. @ 18" X 28'	448'	LT. & RT.	"	"	32
49+00	72" X 44"	62'	R.	C.M.P.A.	2
60+85	10' SPAN	88'	R.	S.P.P.A.	-

GRANULAR SUBBASE COURSE		
LOCATION	SQ. YDS.	APPROX. C.Y.
SECTION NO. 1	4,700	600
SECTION NO. 2	136,500	17,500

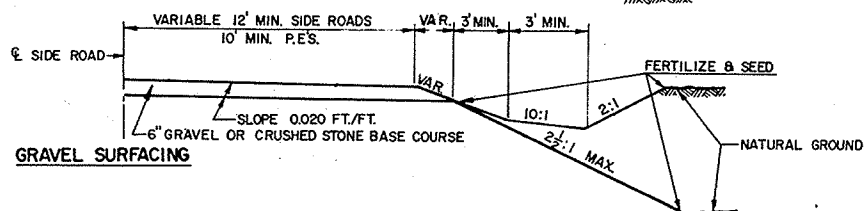
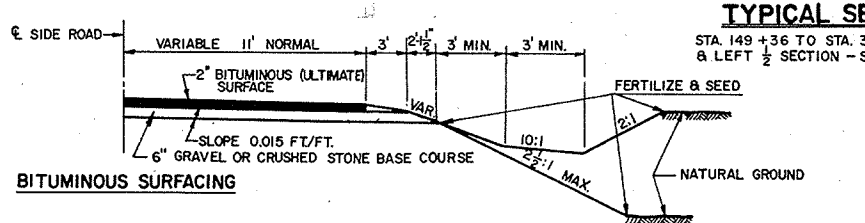
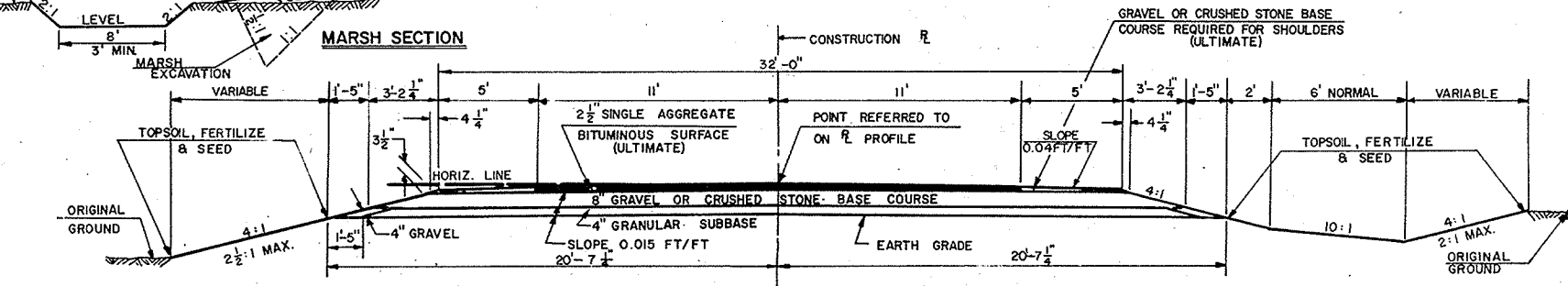
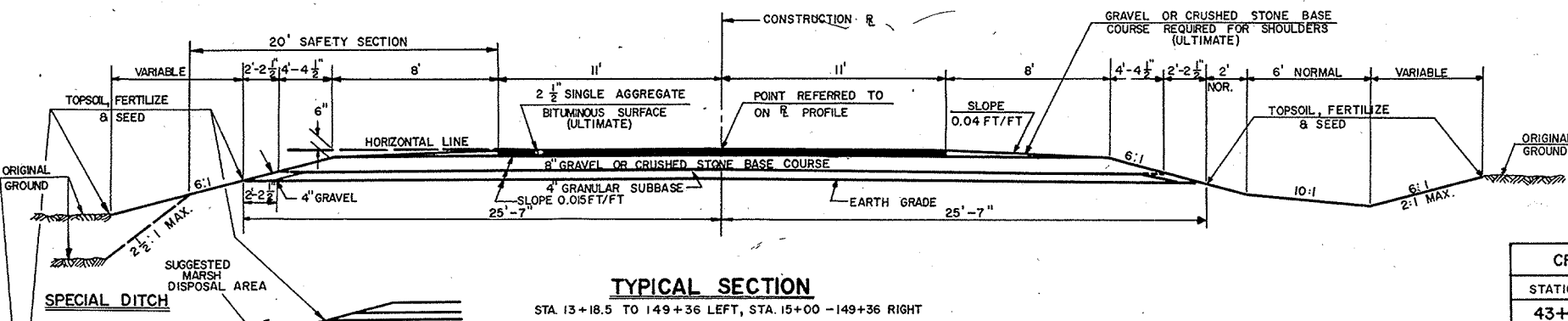
UNCLASSIFIED EXCAVATION		CU. YDS.
MAINLINE & S.T.H. 54		65,718
CHANNEL CHANGE STA. 69+95		150 (NO. SEC.)
" " STA. 80+45		2,283
" " STA. 88+85		676
" " STA. 110+00		4,425
C.T.H. "MM"		546

RIPRAP		
STATION	STRUCTURE	CU. YD.
69+95	B-44-61	80
80+45	B-44-64	200
88+85	B-44-65	100
110+51	B-44-67	150
122+08	C-44-38	80
131+85	C-44-43	100
UNDISTRIBUTED		110

DETAILS FOR MODIFIED TYPE "E" INTERSECTION STA. 323+71.13 - END PROJECT



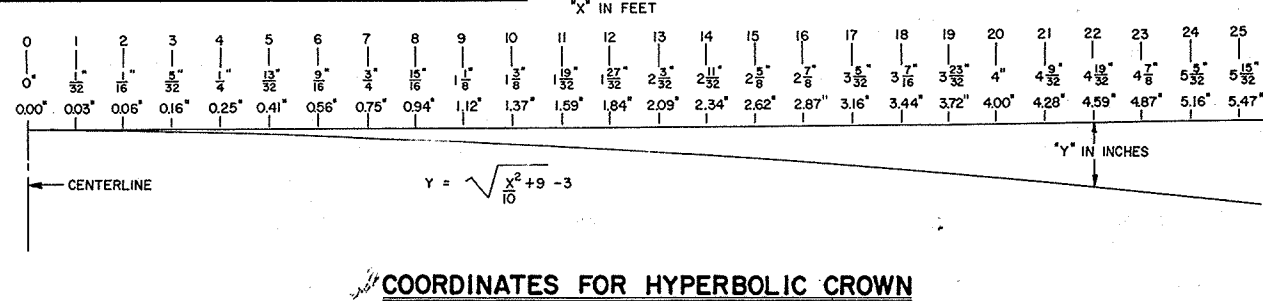
STEEL PLATE BEAM GUARD		
LOCATION	LT. & RT.	LIN. FT.
B-44-61	LT. & RT.	408.0
B-44-64	LT. & RT.	383.0
B-44-65	LT. & RT.	383.0
B-44-63	S.W.	65.0
" " "	S.E.	102.5
" " "	N.W.	102.5
" " "	N.E.	65.0
B-44-67	LT. & RT.	408.0
C-44-38	LT. & RT.	383.0
C-44-43	LT. & RT.	358.0
C-44-39	LT. & RT.	358.0
C-44-40	LT. & RT.	358.0



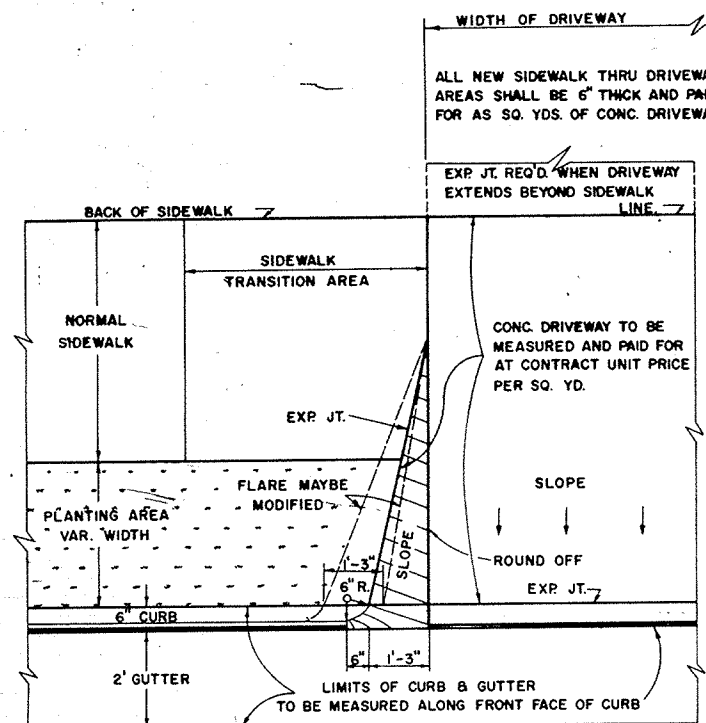
MANHOLES *		
STATION	TYPE	COVERS TYPE "U"
38+70 (16' LT.)	I	I
38+70 (16' RT.)	I	I

STORM SEWERS *				
STATION	INCH DIAMETER	LENGTH (LIN. FEET)	TYPE	APRON ENDWALLS
37+50	18	120	RCP CLASS III	35' LT. I
37+50	30	120	"	35' RT. I
38+70	18	130	"	16' LT. I
38+70	30	130	"	16' RT. I

MARKER POSTS		
LOCATION	SPACING	EACH
FOR SHOULDER DELINEATION		
STA. 69+50 - STA. 70+50 LT.	50'	3
STA. 73+50 - STA. 74+50 LT.	50'	3
AT ANCHORS		36

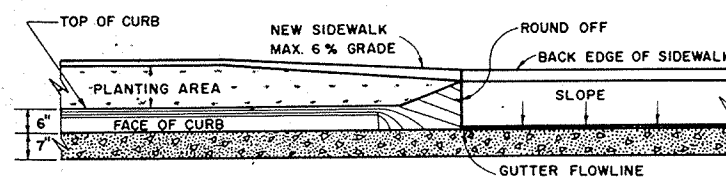


TYPICAL CROSS SECTIONS FOR 44 FEET CLEAR WIDTH STREET (MCPL.) 22 FEET BITUMINOUS SURFACE (RURAL) AND MISCELLANEOUS DETAILS SCALE VARIABLE



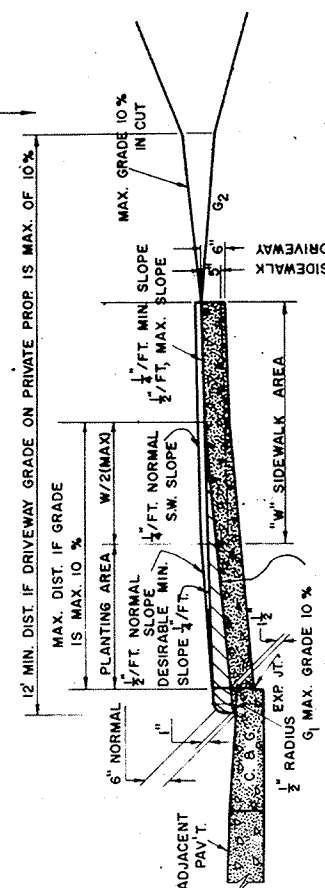
PLAN

WHEN SIDEWALK IS SEPARATED FROM CURB BY PLANTING AREA



PROFILES PARALLEL TO CENTERLINE OF ROADWAY

GENERAL NOTES
FOR ALL OTHER CONSTRUCTION DETAILS AND REQUIREMENTS FOR THE WORK DETAILED ON THIS DRAWING SEE SECTIONS 409, 601 & 602 OF THE STANDARD SPECIFICATIONS. CONCRETE USED IN THE WORK OF "CONCRETE DRIVEWAYS" SHALL BE GRADE "AA" CONCRETE USED IN THE WORK OF "CONCRETE CURB & GUTTER" AND "CONCRETE SIDEWALKS" SHALL BE GRADE "AA" IN CONFORMITY WITH THE STANDARD SPECIFICATIONS.

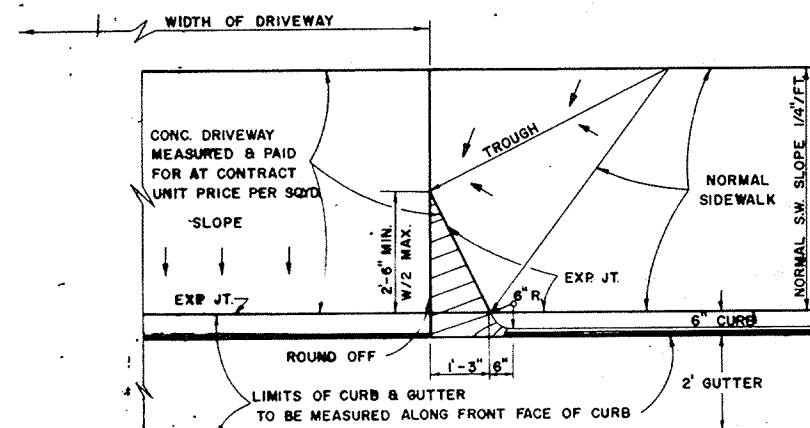


PROFILES PARALLEL TO C. OF DRIVEWAY

NOTE: ALGEBRAIC DIFFERENCE BETWEEN TANGENT GRADES G_1 AND G_2 EXTENDED IN FILLS MAX. 15%.

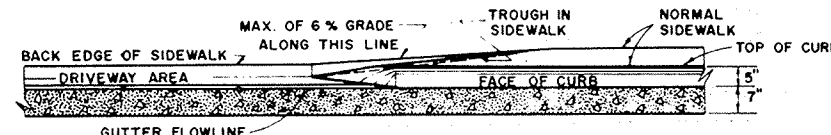
WIDTH OF DRIVEWAYS
SINGLE OR COMBINATION MEASURED AT RIGHT ANGLES TO CENTERLINE OF DRIVEWAY
RURAL - NON-COMMERCIAL 24 FT. MAX.
URBAN - NON-COMMERCIAL 24 FT. MAX.
URBAN - COMMERCIAL 35 FT. MAX.

NOTE: FOR NON-RIGID SURFACED DRIVEWAYS USE 6" DEPTH GRAVEL OR CR. STONE BASE COURSE.

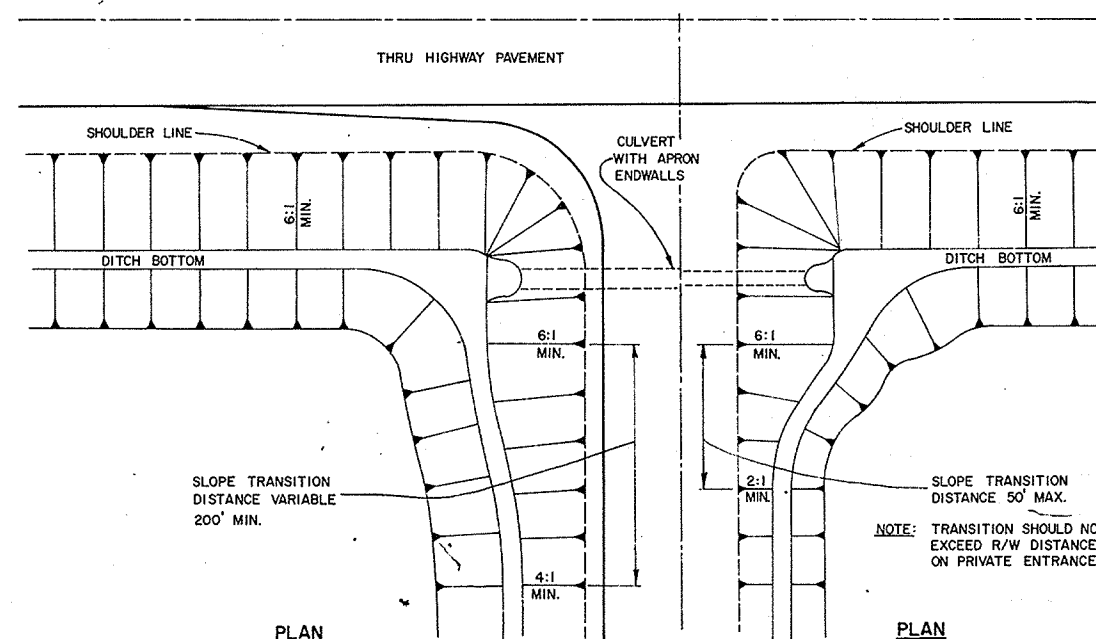


PLAN

WHEN SIDEWALK IS IMMEDIATELY ADJACENT TO CURB



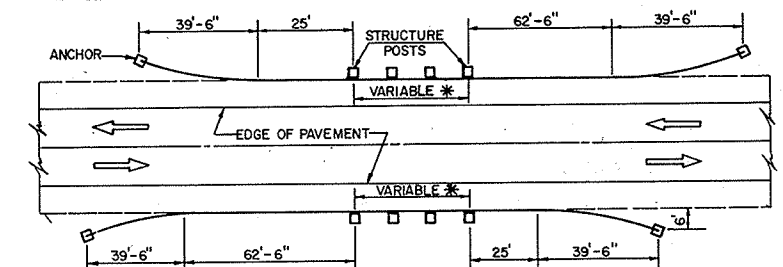
PROFILES PARALLEL TO CENTERLINE OF ROADWAY



PLAN

HALF SECTION SHOWING SIDE ROAD

HALF SECTION SHOWING PRIVATE ENTRANCE



LOCATION OF STEEL PLATE BEAM GUARD AT BOX CULVERTS

* MULTIPLE OF 12'-6"

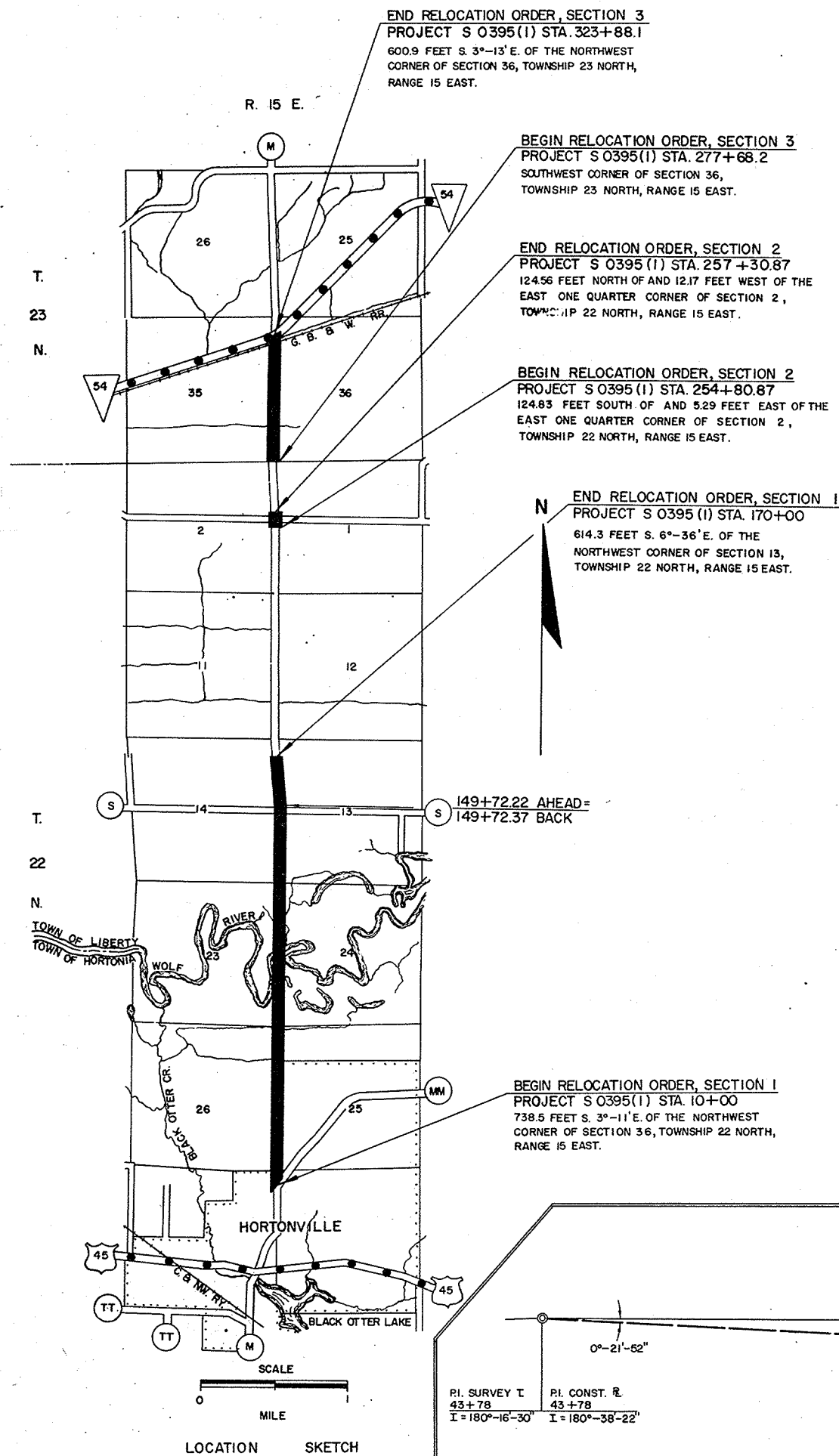
CONSTRUCTION DETAILS
FOR
DRIVEWAYS
AND
EROSION CONTROL
AT
SIDE ROADS & PRIVATE ENTRANCE CULVERTS
AND
STEEL PLATE BEAM GUARD PLACEMENT
SCALE VARIABLE

CONTRACT NO. 1-2-3

B.P.R. REGION	PROJECT	SHEET NO.	TOTAL SHEETS
4	S 0395(1)	3	85

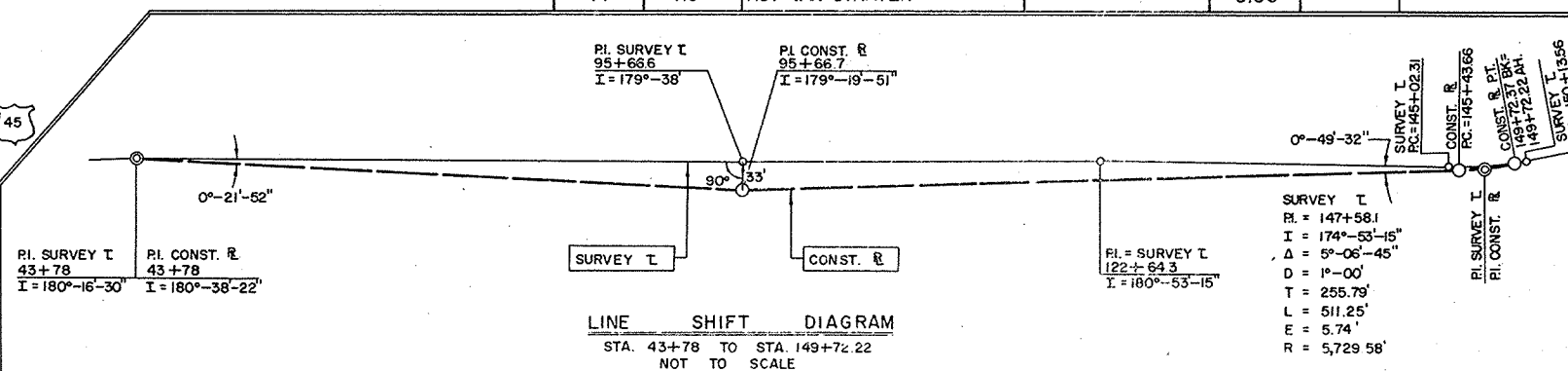
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COUNTY AND HIGHWAY	ROUTE AND SECTION	CLASS AND AGREEMENT		B. P. R. REGION DIVISION	SHEET NUMBER	TOTAL SHEETS
		STATE	FEDERAL			
44.6	395.0	-	13.1	4 WIS.	4	
CONST. PROJECT				S 0395 (1)	4	85



SCHEDULE OF LANDS AND INTERESTS REQUIRED			ACRES	RODS OF FENCING	
PARCEL NUMBER	SHEET NUMBER	OWNER	INTERESTS REQUIRED		
1	4.1	JAMES L. TESSEN	L. H. E.	—	—
2	4.1	ELENORA FULCER	HIGHWAY EASEMENT	0.07	—
3	4,4,2,4,3	WIS.—MICH. POWER CO.	RELEASE OF RIGHTS	—	—
4	4.1	FRED FULCER	HIGHWAY EASEMENT	0.67	70
5	4.1	LOTHAR H. LENZNER	FEE	0.82	137
6					
7	4.1	WILLIAM REININGER	HIGHWAY EASEMENT	0.68	70
8	4.1	ERVIN C. DELZER	"	0.51	—
9	4.1	BERTHA BESCHTA	"	0.58	—
10	4.1	CLAIRE R. & ELDO A. POOLE	"	0.43	—
11	4.1	EDWARD R. FULCER	"	0.02	—
12	4.1	CAMPFIRE LAND CO. INC.	"	0.40	—
13	42, 4, 3	LAWRENCE BARTENSTEIN	HIGHWAY & EASEMENT L. H. E.	0.12	13
14	4.2	ARTHUR SCHWEBS	"	0.47	—
15	4.2	ARNOLD H. WERTH	HIGHWAY EASEMENT	0.63	—
16	4.2	ANTOINETTE SCHIMMELS	HIGHWAY & EASEMENT L. H. E.	0.68	—
17	4.2	JOSEPH E. THUMANN ET. AL.	"	0.77	—
18	4.2	EMLINE BREITRICK	L. H. E.	—	—
19	4.2	WALTER F. WISNEFSKE	"	—	—
20	4.2	CLAIRE POOLE	HIGHWAY & EASEMENT L. H. E.	2.63	—
21	4.2	LUELLA BUCHMAN	FEE	0.19	—
22	4.2	JOHN E. BUCHMAN SR.	"	0.15	—
23	4.2	OTTO LEARMAN ET. AL.	HIGHWAY EASEMENT	1.51	—
24					
25	4.3	WALTER MORACK	HIGHWAY & EASEMENT L. H. E.	1.82	57
26	4.3	WILLIAM E. STAKE	L. H. E.	—	—
27	4.3	ALVIN G. LEMKE	"	—	—
28	4.3	DONALD E. SCHUCKNECHT	FEE & L. H. E.	3.11	81
29	4.3	HERMAN REINKE	HIGHWAY EASEMENT	0.18	82
30	4.3	EMERSON W. OSSMAN	"	0.22	221
31	4.4	WIS. ELECTRIC POWER CO.	RELEASE OF RIGHTS	—	—
32	4,4,4,5	W. E. STAKE	HIGHWAY EASEMENT	0.42	52
33	4.4	OTTO LEARMAN	"	0.38	37
34	4.5	CLARENCE KORTH	"	0.03	6
35	4.5	HERBERT KORTH	"	0.04	6
36	4.5	MILDRED SIEBERT	"	0.03	6
37	4.6	RAYMOND VAN STRATEN	"	0.89	—
38	4.6	ORVAL H. POLZIN	"	0.33	49
39	4.6	PETER S. KERSTEN	"	1.26	—
40	4.6	GREEN BAY & WESTERN RAILROAD	AGREEMENT	—	—
41	4.6	R. E. SCHWEB (HEIRS)	HIGHWAY EASEMENT	0.23	—
42	4.6	LYNDON MARCKS	"	0.11	—
43	4.6	JOHN BEYERS	"	0.07	14
44	4.6	ROY VAN STRATEN	"	0.06	—

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



REVISION
DATE
9-20-67

STATE HIGHWAY COMMISSION OF WISCONSIN
PLAT OF RIGHT OF WAY REQUIRED
PROJECT S 0395(1)
HORTONVILLE — S.T.H. 54 ROAD
C.T.H. "M" OUTAGAMIE COUNTY

SCALE

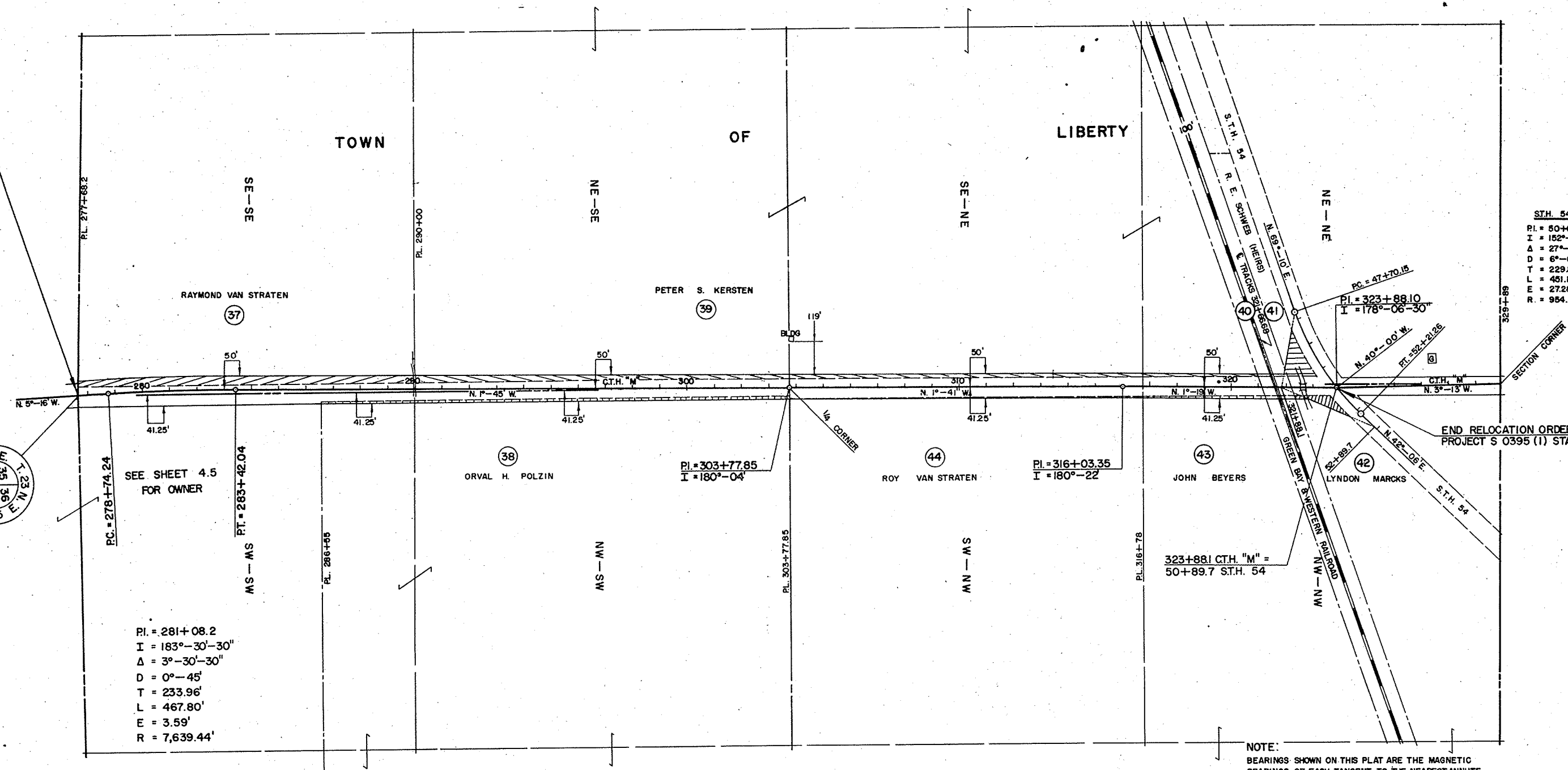
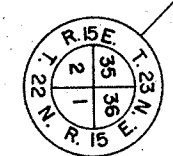
0 200 400
FEET

LENGTH 3.953 MILES

DATED 7-24-67

COUNTY AND HIGHWAY	ROUTE AND SECTION	CLASS AND AGREEMENT		B. P. R. PERSON DIVISION	SHEET NUMBER	TOTAL SHEETS
		STATE	FEDERAL			
44.6	395.0	—	13.1	4 WIS.	4.6	
CONST. PROJECT				50395 (1)	4.6	85

BEGIN RELOCATION ORDER, SECTION 3
PROJECT S 0395 (1) STA. 277+68.2



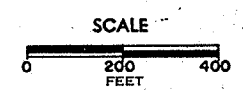
S.T.H. 54
P.I. = 50+00
I = 152°-5
Δ = 27°-0
D = 6°-00
T = 229.85
L = 451.11
E = 27.28'
R. = 954.93

END RELOCATION ORDER, SECTION 3
PROJECT S 0395 (1) STA. 323+88.1

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

[illegible]

STATE HIGHWAY COMMISSION OF WISCONSIN
PLAT OF RIGHT OF WAY REQUIRED
PROJECT S 0395 (1)



DATED 7-24-67

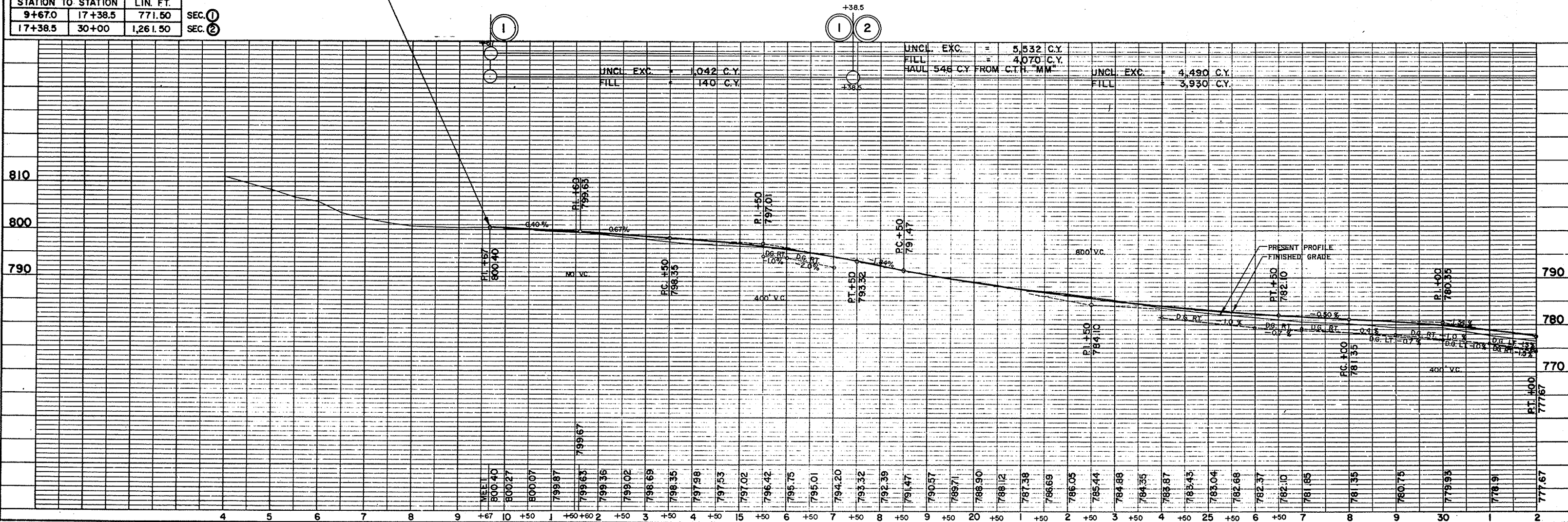
BENCH MARKS				
NO.	STATION	DESCRIPTION		ELEV.
1	9+58	SPIKE IN 13" APPLE	50' RT.	802.36
2	19+55	SPIKE IN 31" COTTONWOOD	72' RT.	793.89
3	30+57	SPIKE IN 24" HICKORY	140' RT.	780.09

L.P.R. DIVISION	PROJECT	SHEET NUMBER	TOTAL SHEETS
4	S 0395 (1)	5	85

STA. 9+67.0 BEGIN
PROJECT S 0395 (1)

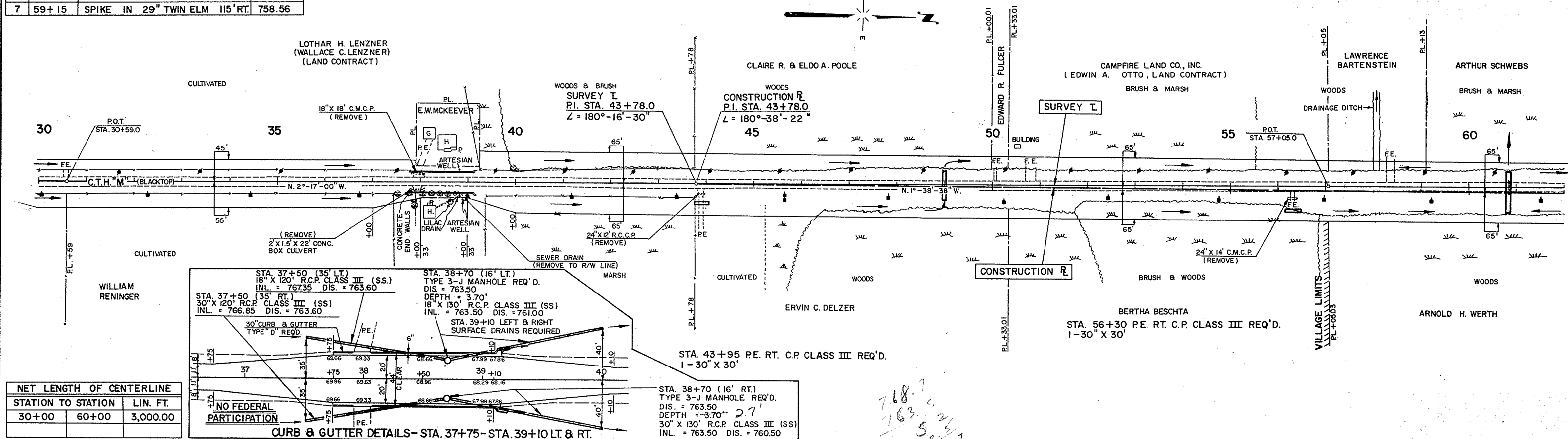
NET LENGTH OF CENTERLINE		
STATION TO STATION	LIN. FT.	
9+67.0 17+38.5	771.50	
17+38.5 30+00	1,261.50	

SEC. ①
SEC. ②

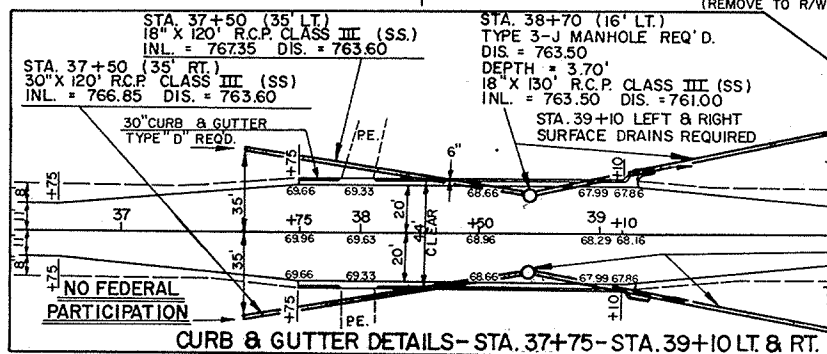


BENCH MARKS				
NO.	STATION	DESCRIPTION	ELEV.	
4	38+76	SPIKE IN 30" MAPLE	22'RT.	767.02
5	46+97	SPIKE IN 20" ELM	77'RT.	760.27
6	51+51	SPIKE IN 24" ELM	94'RT.	759.61
7	59+15	SPIKE IN 29" TWIN ELM	115'RT.	758.56

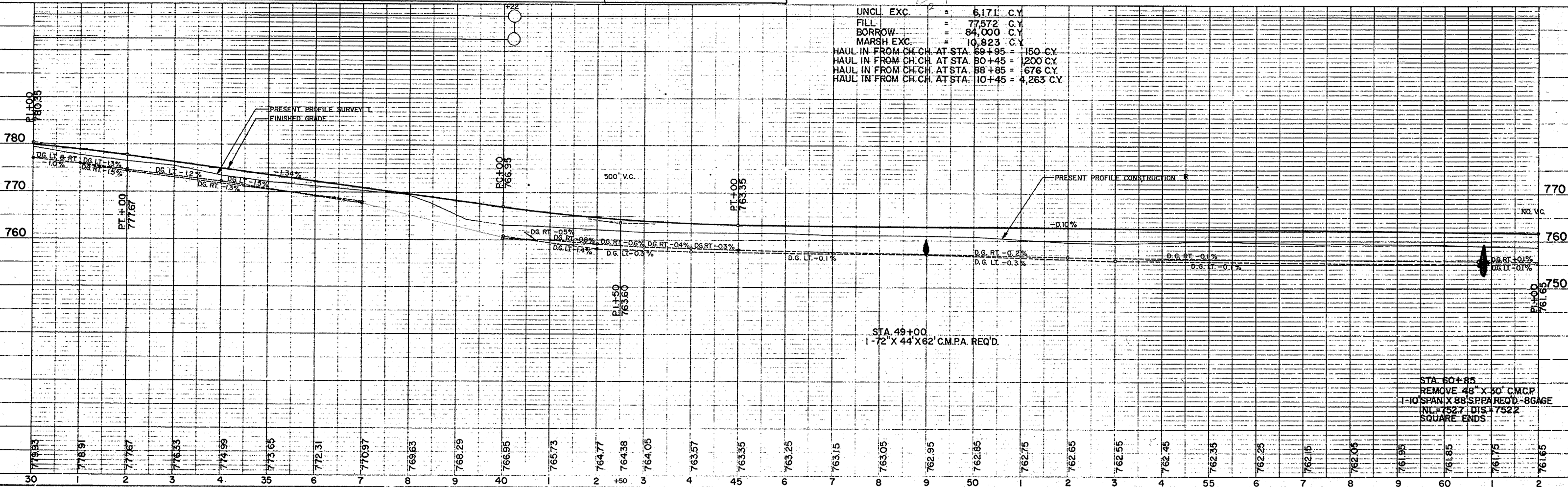
B.P.R. DIVISION	PROJECT	SHEET NUMBER	TOTAL SHEETS
4	S 0395 (I)	6	85



NET LENGTH OF CENTERLINE		
STATION TO STATION	LIN. FT.	
30+00	60+00	3,000.00

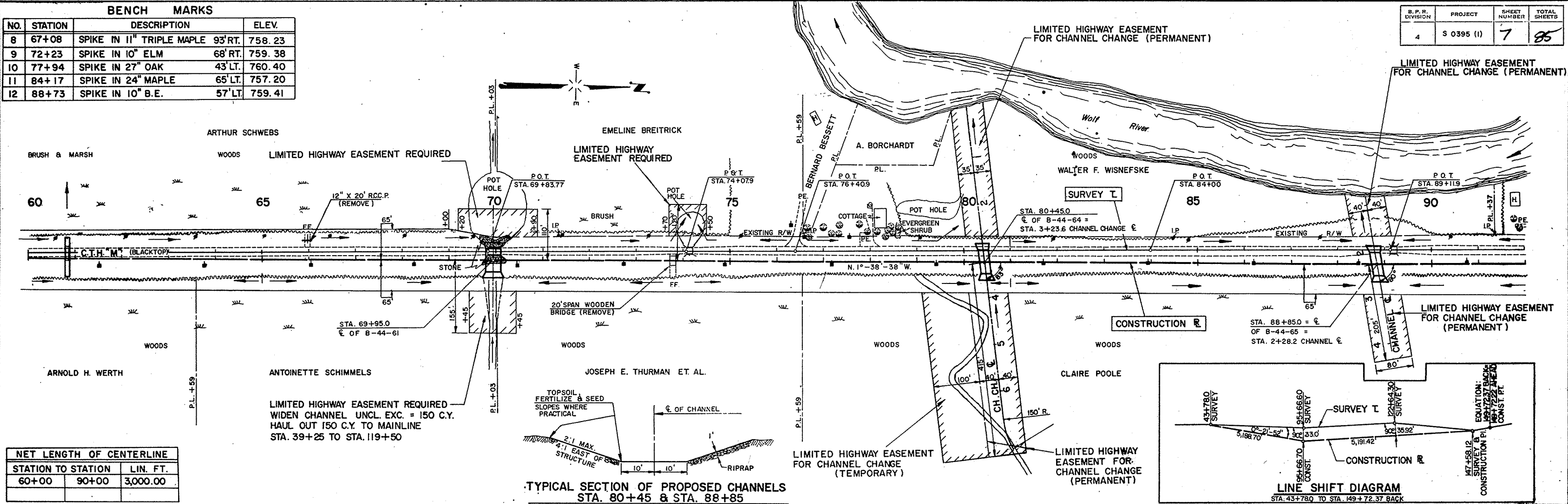


UNCL. EXC.	=	6,171 C.Y.
FILL	=	77,572 C.Y.
BORROW	=	84,000 C.Y.
MARSH EXC.	=	10,823 C.Y.
HAUL IN FROM CH. CH. AT STA. 59+95	=	150 C.Y.
HAUL IN FROM CH. CH. AT STA. 60+45	=	1200 C.Y.
HAUL IN FROM CH. CH. AT STA. 88+85	=	676 C.Y.
HAUL IN FROM CH. CH. AT STA. 110+45	=	4,263 C.Y.

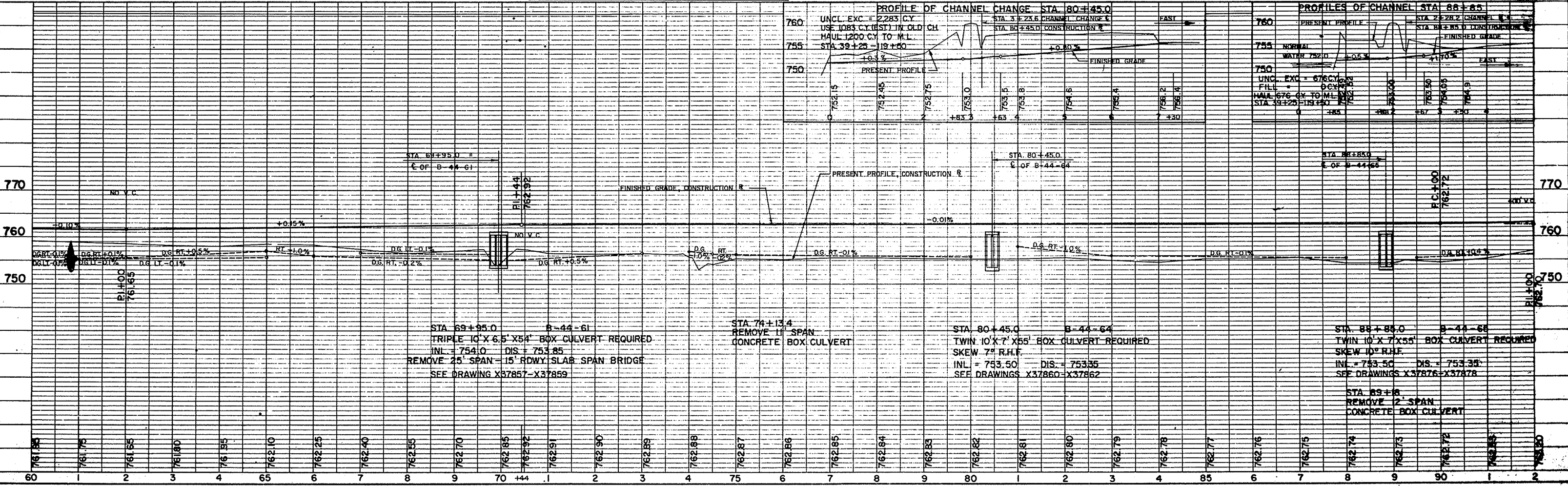


BENCH MARKS			
NO.	STATION	DESCRIPTION	ELEV.
8	67+08	SPIKE IN 11" TRIPLE MAPLE	93' RT. 758.23
9	72+23	SPIKE IN 10" ELM	68' RT. 759.38
10	77+94	SPIKE IN 27" OAK	43' LT. 760.40
11	84+17	SPIKE IN 24" MAPLE	65' LT. 757.20
12	88+73	SPIKE IN 10" B.E.	57' LT. 759.41

S. P. R. DIVISION	PROJECT	SHEET NUMBER	TOTAL SHEETS
4	S 0395 (I)	7	85



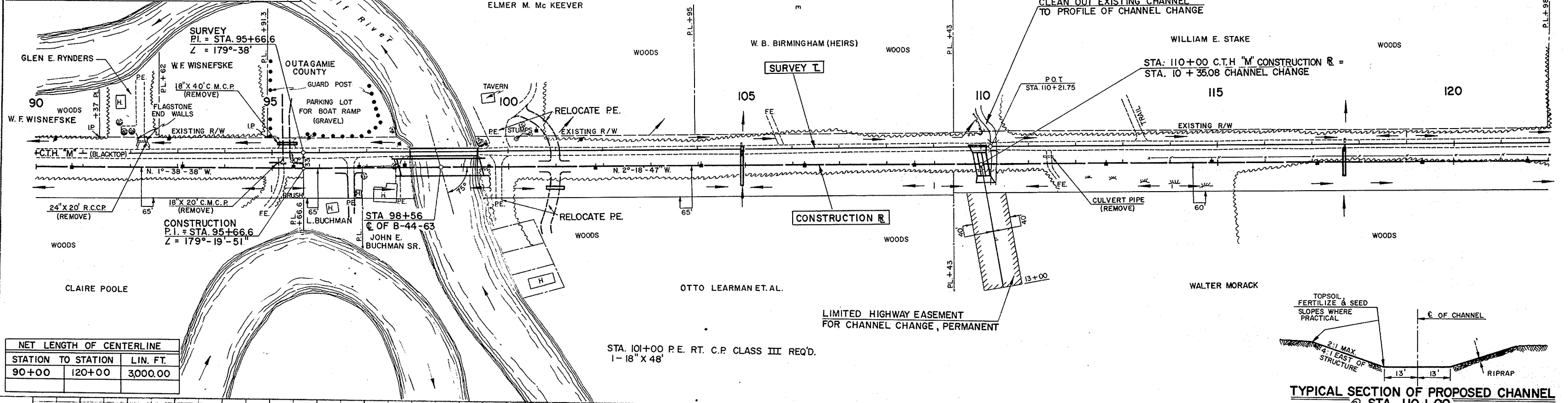
NET LENGTH OF CENTERLINE		
STATION TO STATION	LIN. FT.	
60+00	90+00	3,000.00



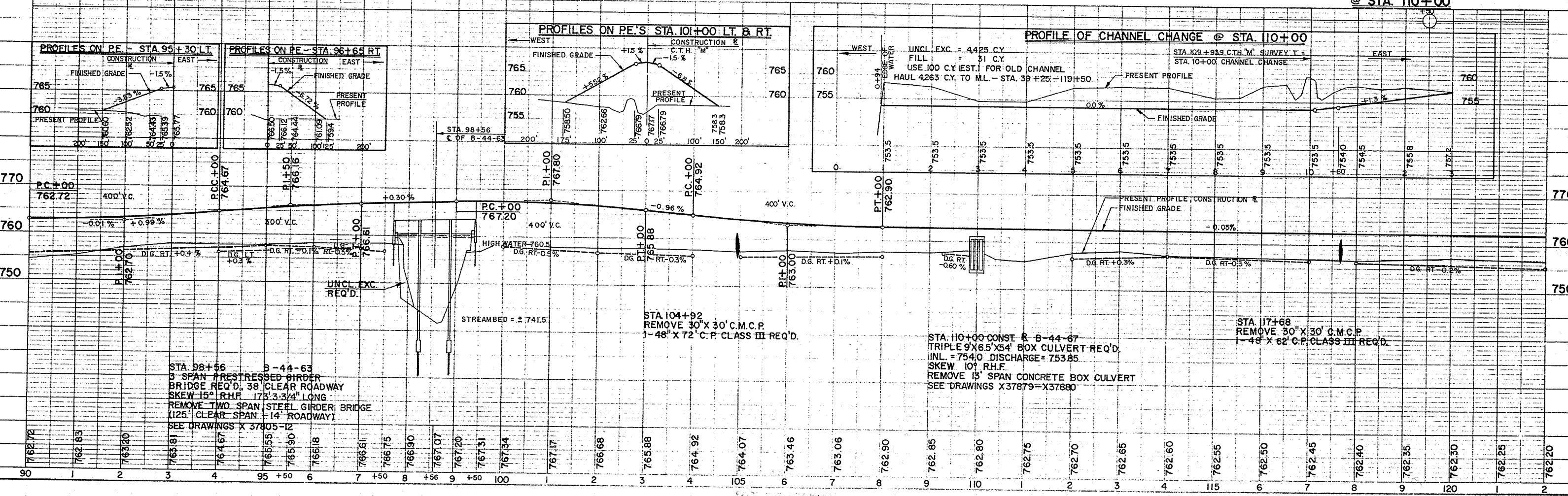
BENCH MARKS				
NO.	STATION	DESCRIPTION	ELEV.	
13	92 + 48	SPIKE IN 14" ELM	55' RT.	759.55
14	96 + 12	SPIKE IN 26" ELM	99' RT.	759.87
15	99 + 65	SPIKE IN 14" B.E.	80' RT.	759.66
16	105 + 28	SPIKE IN 11" BIRCH	80' RT.	759.20
17	109 + 97	SPIKE IN 36" ELM	75' RT.	759.47
18		SPIKE IN 36" OAK	73' RT.	758.88

STA. 95+30, PRIVATE ENTRANCE
18" X 42" C.P., CLASS III REQ'D.

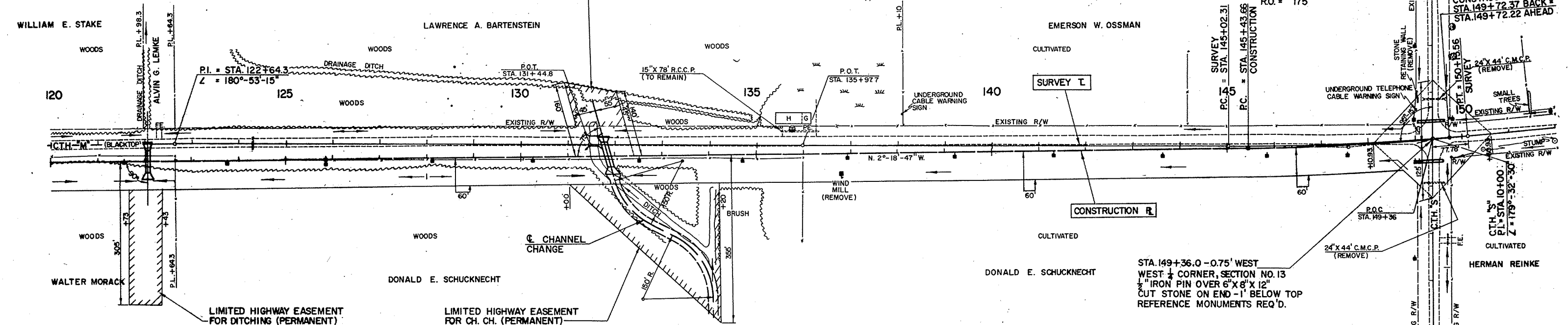
C.P.R. DIVISION	PROJECT	SHEET NUMBER	TOTAL SHEETS
4	S 0395 (1)	8	85



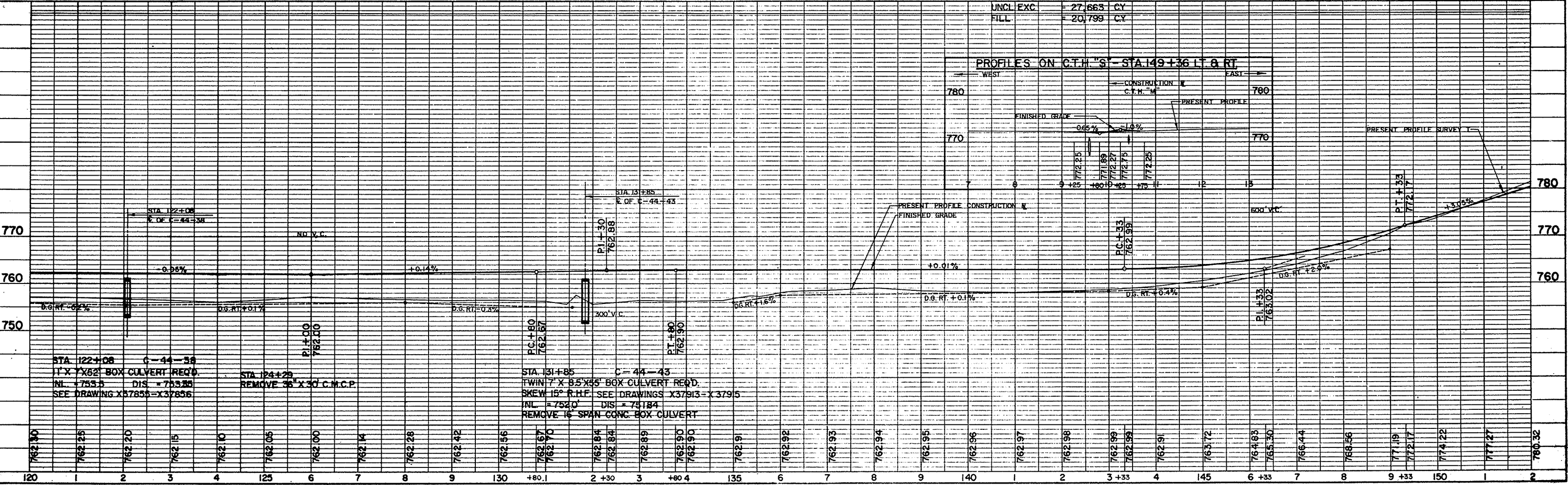
NET LENGTH OF CENTERLINE		
STATION TO STATION	LIN. FT.	
90+00	120+00	3000.00



BENCH MARKS				
NO.	STATION	DESCRIPTION	ELEV.	
19	123+04	SPIKE IN 10" ELM	82' RT.	757.60
20	127+47	SPIKE IN 10" ELM	81' LT.	758.01
21	132+77	SPIKE IN 14" TWIN B.E.	71' LT.	757.89
22	136+00	PT. MC SOUTHEAST CORNER CONCRETE GARAGE RAMP	44' LT.	760.19
23	150+25	SPIKE IN 42" ELM	210' RT.	777.24

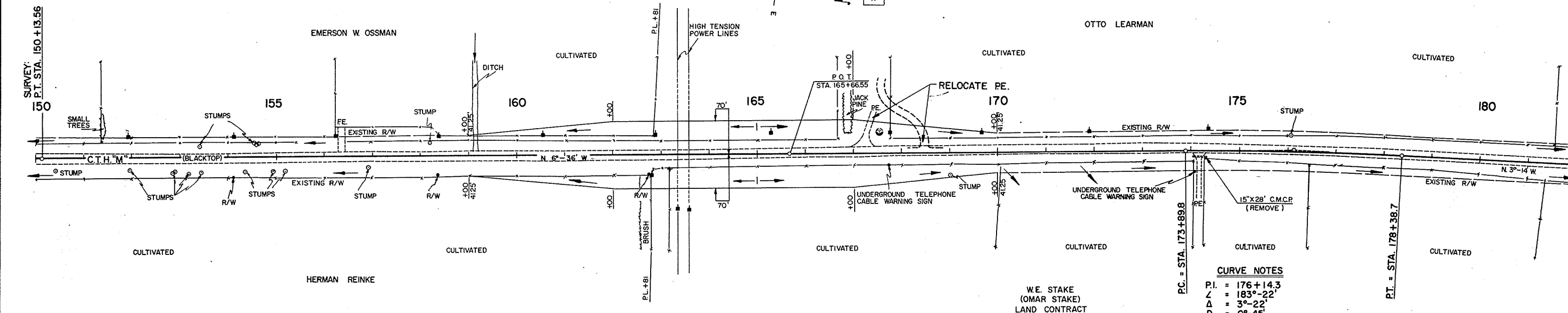


NET LENGTH OF CENTERLINE		
STATION TO STATION	LIN. FT.	
120+00	150+00	3,000.15



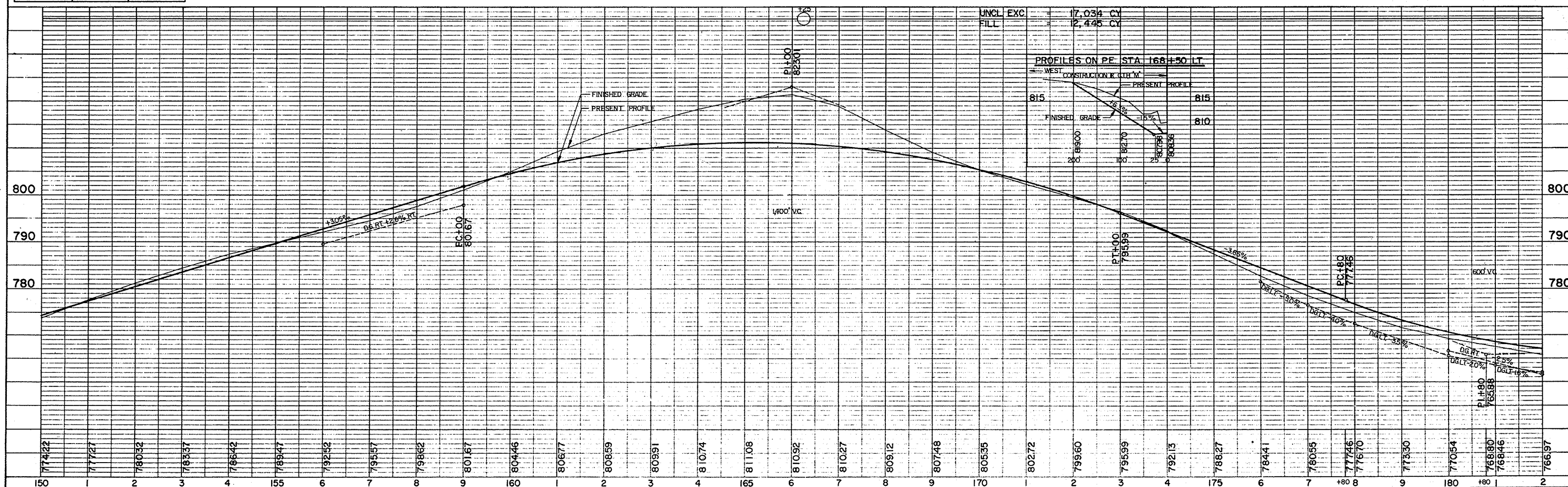
BENCH MARKS				
NO.	STATION	DESCRIPTION	ELEV.	
23	150 +25	SPIKE IN 42" ELM	210' RT.	777.24
24	163 +55	SPIKE IN POLE	125' RT.	817.92
25	167 +88	SPIKE IN POLE	120' LT.	817.80
26	174 +18	SPIKE IN POLE	110' RT.	789.97

S.P.R. DIVISION	PROJECT	SHEET NUMBER	TOTAL SHEETS
4	S 0395 (I)	10	85



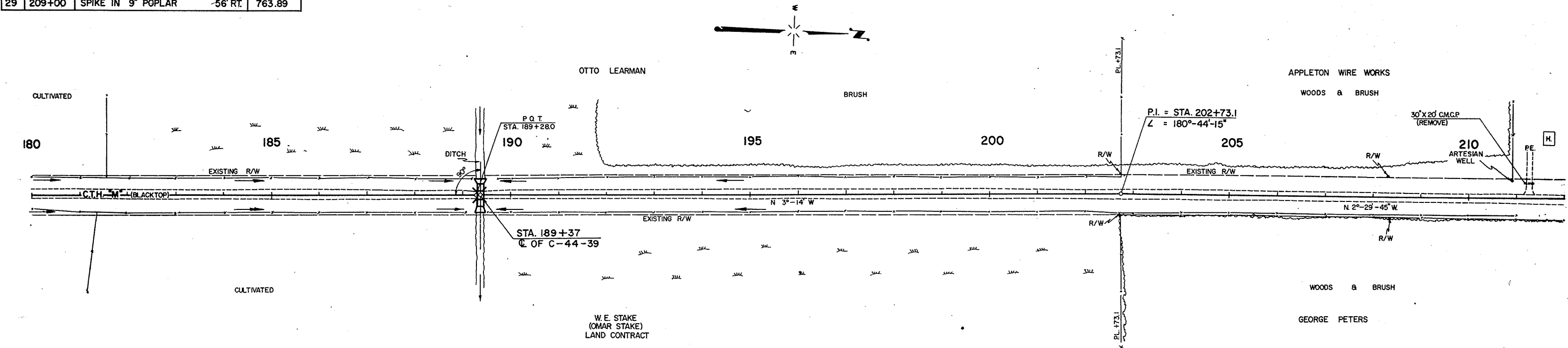
NET LENGTH OF CENTERLINE		
STATION TO STATION	LIN. FT.	
150+00	180+00	3,000.00

CURVE NOTES
 P.I. = 176+14.3
 L = 183°-22'
 Δ = 3°-22'
 D = 0°-45'
 T = 224.51'
 R = 448.89'
 SE = 7639.44'
 R.O. = 175'

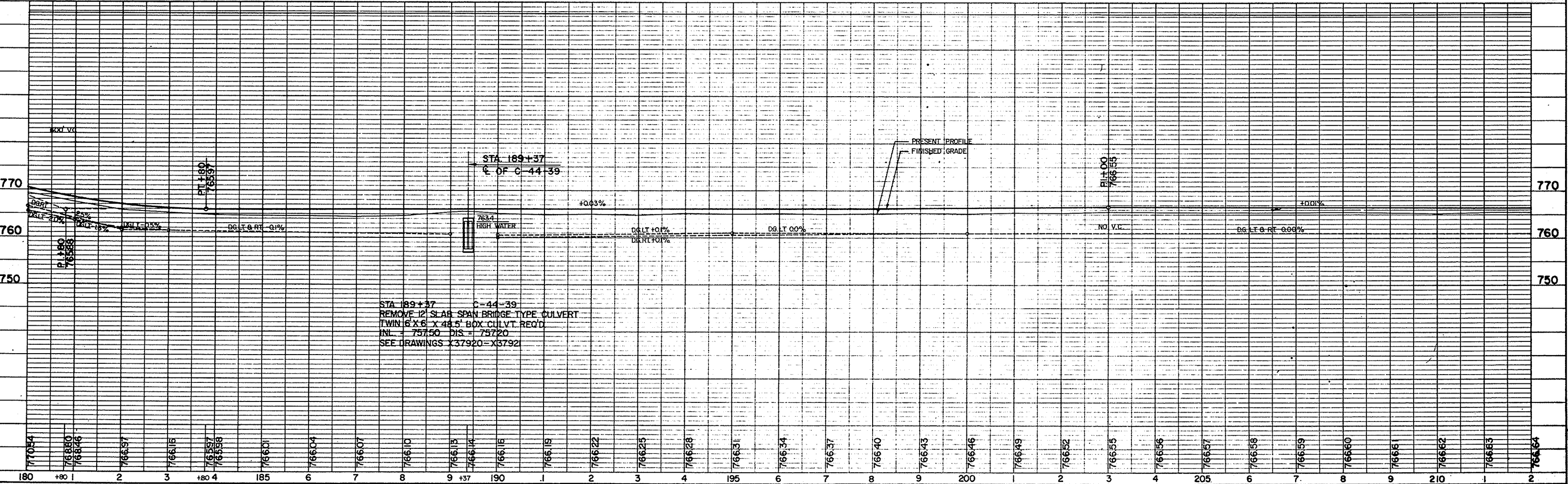


BENCH MARKS			
NO.	STATION	DESCRIPTION	ELEV.
27	189+29	PT. MK. ON SOUTHWEST CORNER WINGWALL OF BOX CULVERT	766.65
28	203+28	SPIKE IN 13" POPLAR 87' RT.	763.71
29	209+00	SPIKE IN 9" POPLAR 56' RT.	763.89

B. P. R. DIVISION	PROJECT	SHEET NUMBER	TOTAL SHEETS
4	S 0395 (1)	11	85

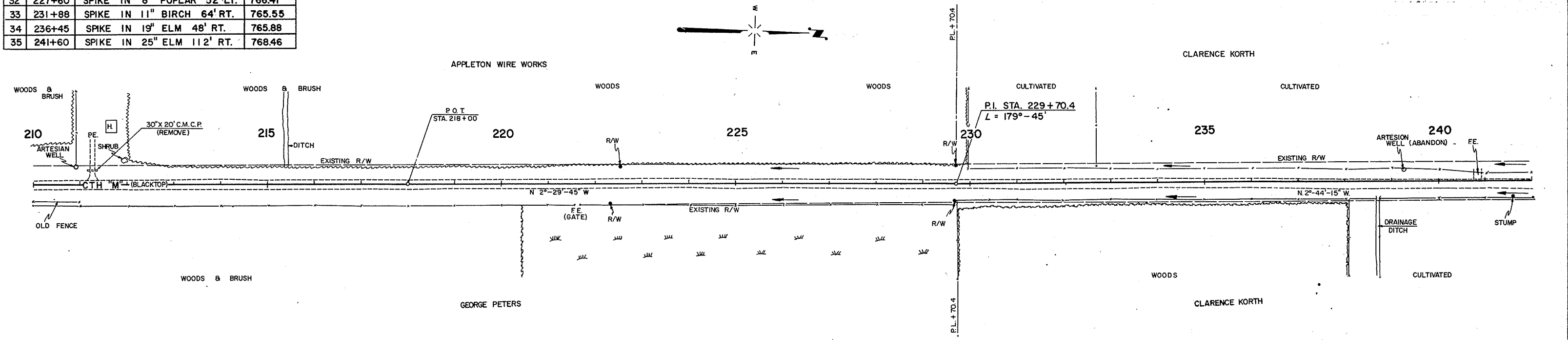


NET LENGTH OF CENTERLINE		
STATION TO STATION	LIN. FT.	
180+00	210+00	3,000.00

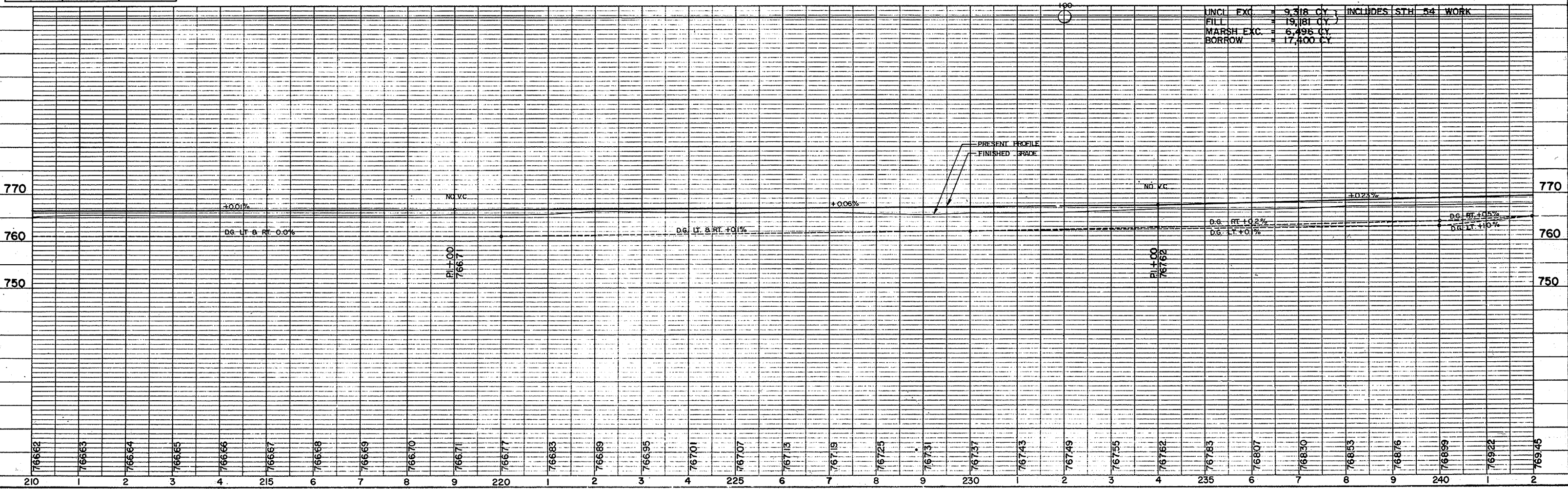


BENCH MARKS				
NO.	STATION	DESCRIPTION	ELEV.	
30	217+07	SPIKE IN 5" POPLAR 60' RT.	763.99	
31	223+40	SPIKE IN 9" POPLAR 60' LT.	765.70	
32	227+60	SPIKE IN 8" POPLAR 52' LT.	766.41	
33	231+88	SPIKE IN 11" BIRCH 64' RT.	765.55	
34	236+45	SPIKE IN 19" ELM 48' RT.	765.88	
35	241+60	SPIKE IN 25" ELM 112' RT.	768.46	

B. P. R. DIVISION	PROJECT	SHEET NUMBER	TOTAL SHEETS
4	S 0395 (I)	12	85



NET LENGTH OF CENTERLINE		
STATION TO STATION	LIN. FT.	
210+00	240+00	3,000.00



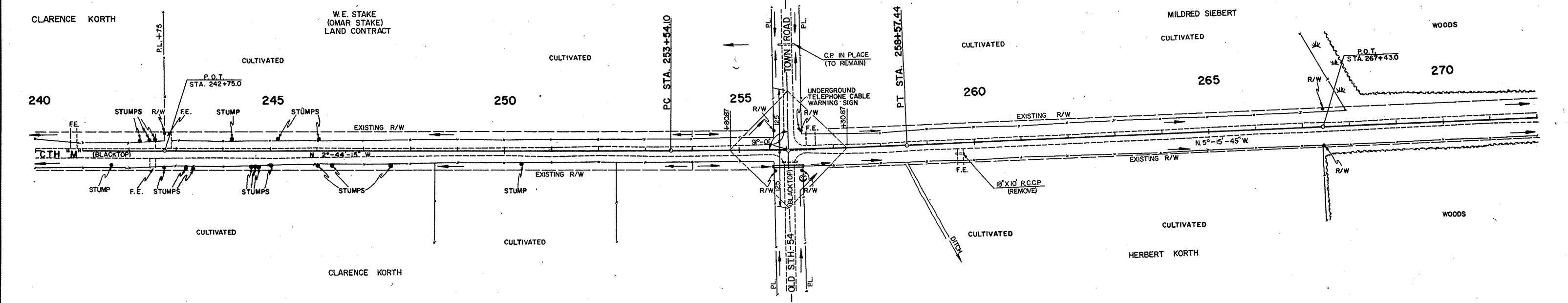
UNCL. EXC.	= 9,318 CY	INCLUDES	STH 54 WORK
FILL	= 19,181 CY		
MARSH EXC.	= 6,496 CY		
BORROW	= 17,400 CY		

BENCH MARKS			
NO.	STATION	DESCRIPTION	ELEV.
35	241+60	SPIKE IN 25" ELM 112' RT.	768.46
36	256+33	SPIKE IN 11" ELM 60' RT.	769.54
37	269+19	SPIKE IN 6" BIRCH 64' RT.	765.65

CURVE NOTES
 P.I. = 256+05.8
 L = 177'-29"
 Δ = 2°-31'
 D = 0°-30'
 T = 251.70'
 L = 503.34'
 R = 11,459.16'
 SE = 0015 FT/FT.

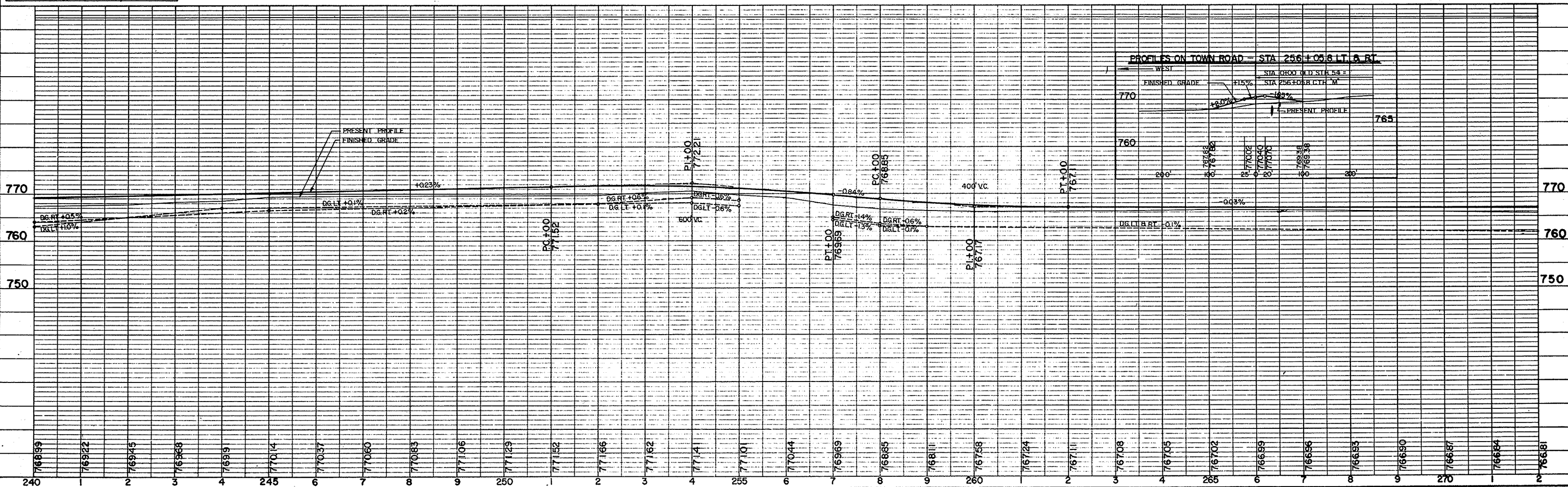
STA. 256+05.8 TOWN RD. LEFT
 DESIGN TYPE "E" INTERSECTION REQ'D.
 SEE STANDARD DRAWING NO. 9-1.1.5

B. P. R. DIVISION	PROJECT	SHEET NUMBER	TOTAL SHEETS
4	S 0395 (1)	13	85



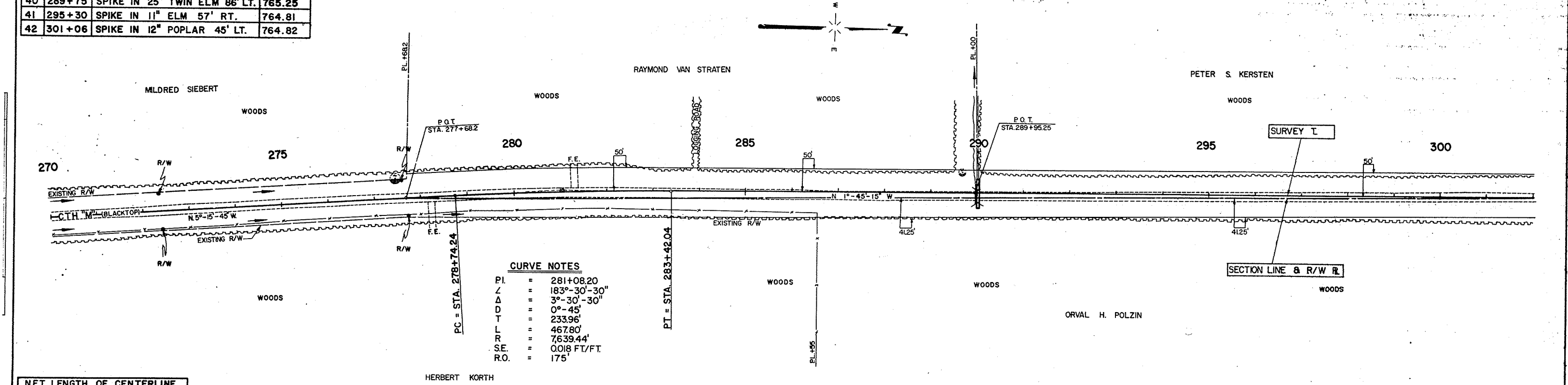
STA 256+05.8 TOWN RD. 35' RT.
 REMOVE 24" X 30" C.M.C.P.
 1-24" X 54" C.P. CLASS III REQ'D.
 DESIGN TYPE "E" INTERSECTION REQ'D.
 SEE STANDARD DRAWING NO. 9-1.1.5

NET LENGTH OF CENTERLINE		
STATION TO STATION	LIN. FT.	
240+00	270+00	3,000.00

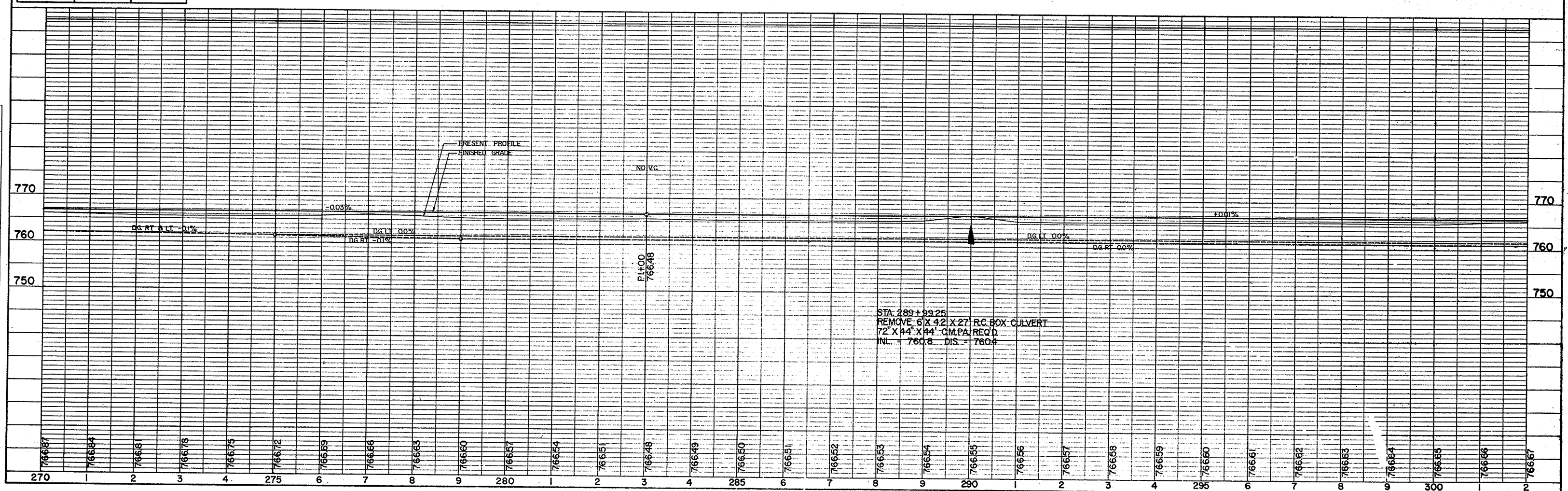


BENCH MARKS			
NO.	STATION	DESCRIPTION	ELEV.
38	278+50	SPIKE IN 10" POPLAR 60' LT.	764.81
39	286+60	SPIKE IN 19" ELM 66' LT.	765.17
40	289+75	SPIKE IN 25" TWIN ELM 86' LT.	765.25
41	295+30	SPIKE IN 11" ELM 57' RT.	764.81
42	301+06	SPIKE IN 12" POPLAR 45' LT.	764.82

DIVISION	PROJECT	SHEET NUMBER	TOTAL SHEETS
	S 0396 (1)	17	35

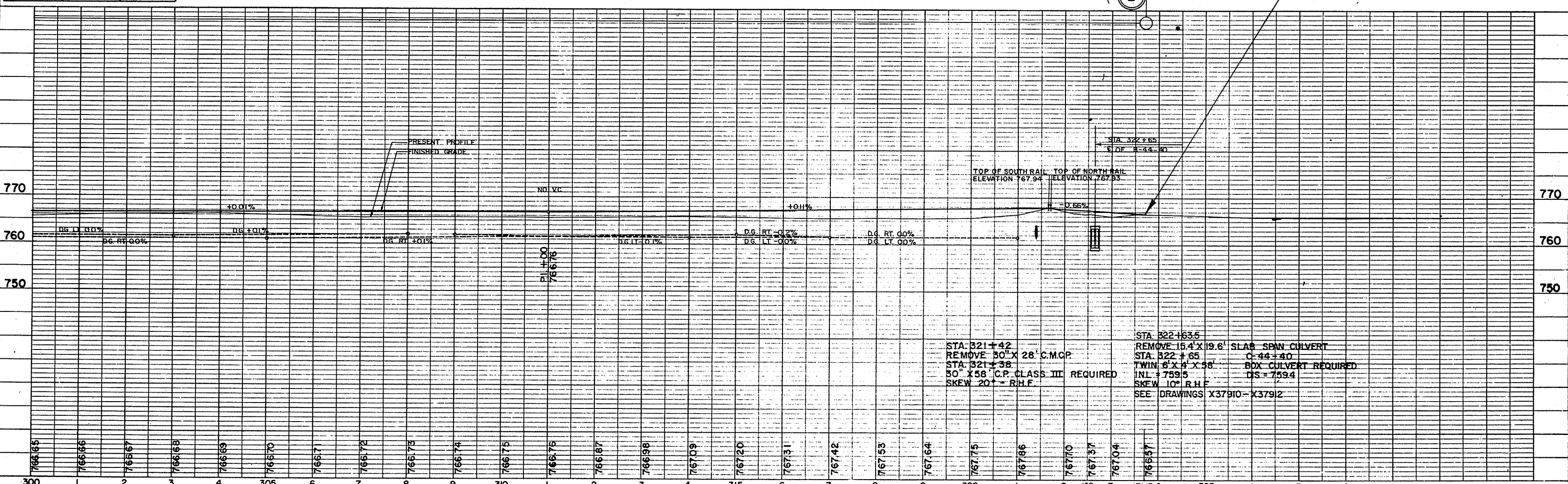
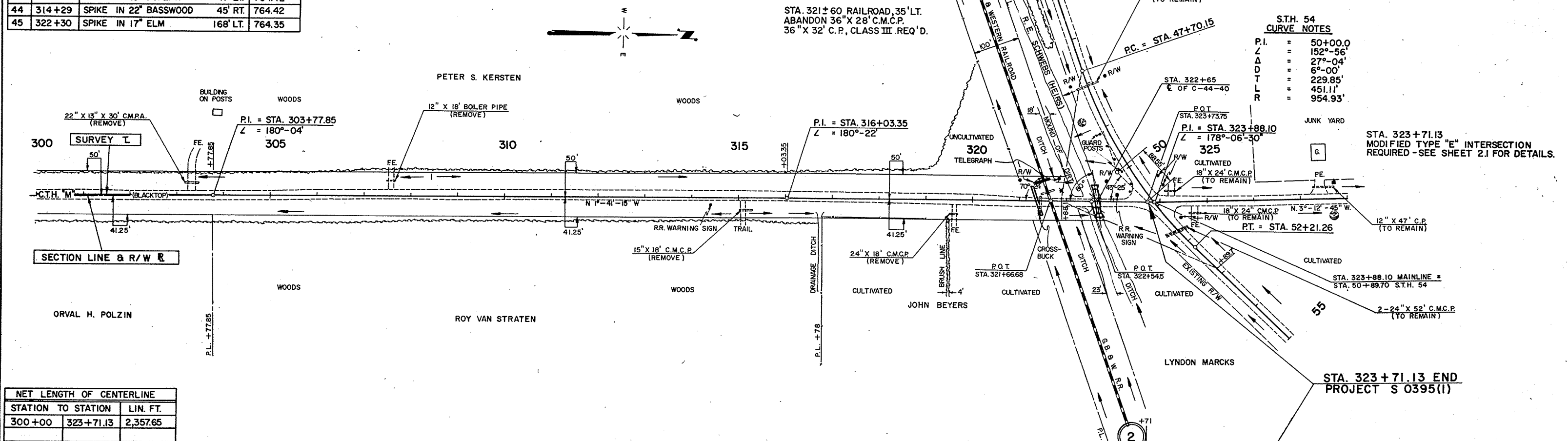


NET LENGTH OF CENTERLINE		
STATION TO STATION	LIN. FT.	
270+00	300+00	3,000.00



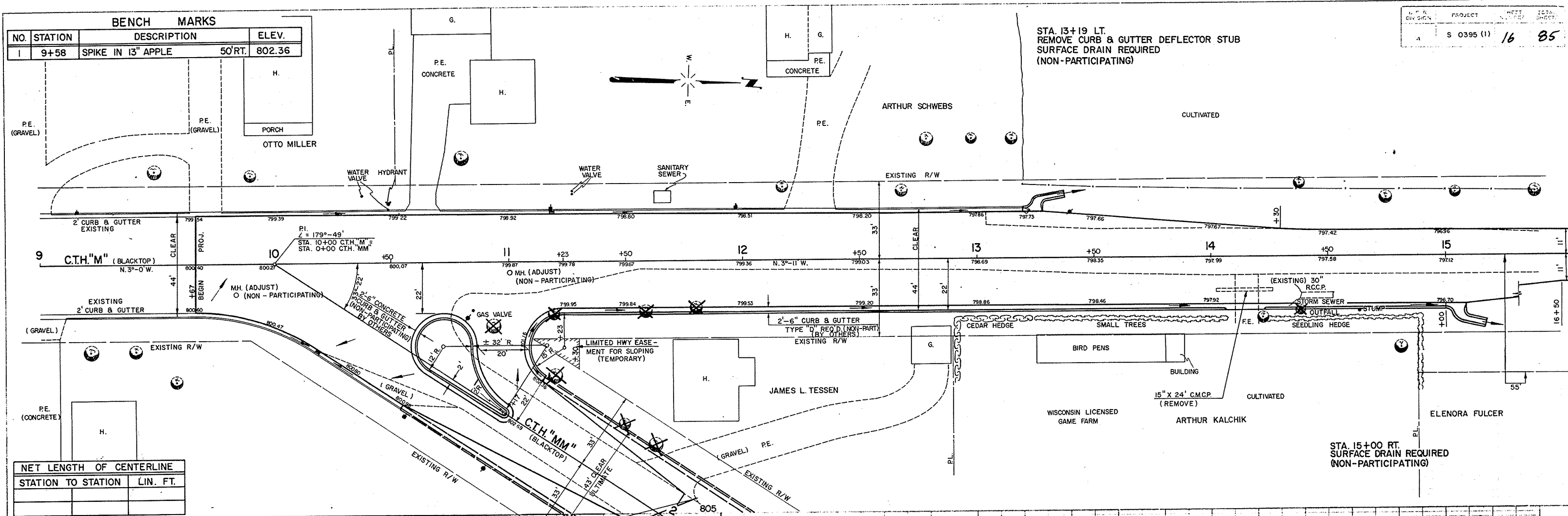
BENCH MARKS				
NO.	STATION	DESCRIPTION		ELEV.
42	301+06	SPIKE IN 12" POPLAR	45' LT.	764.82
43	308+50	SPIKE IN 10" POPLAR	47' LT.	764.12
44	314+29	SPIKE IN 22" BASSWOOD	45' RT.	764.42
45	322+30	SPIKE IN 17" ELM	168' LT.	764.35

D. P. H. DIVISION	PROJECT	SHEET NUMBER	TOTAL SHEETS
4	S 0395 (I)	15	85

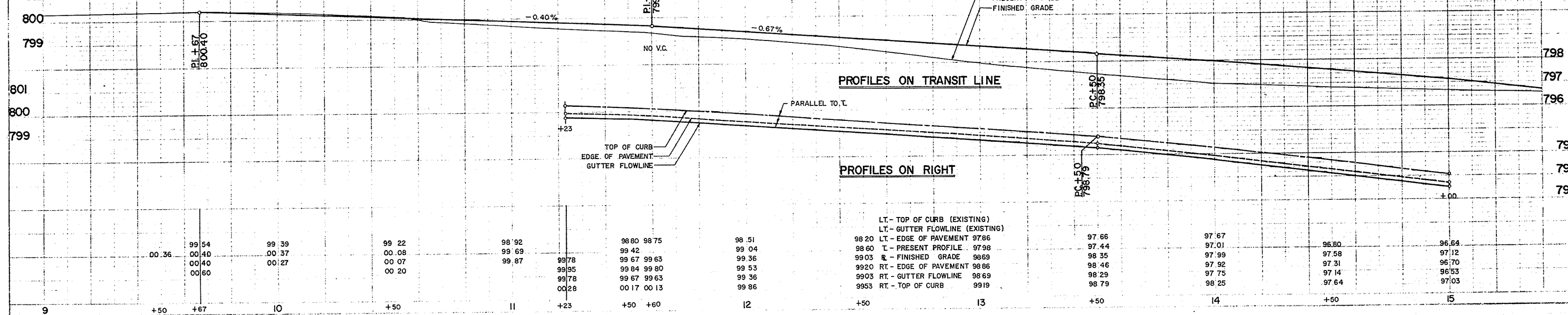
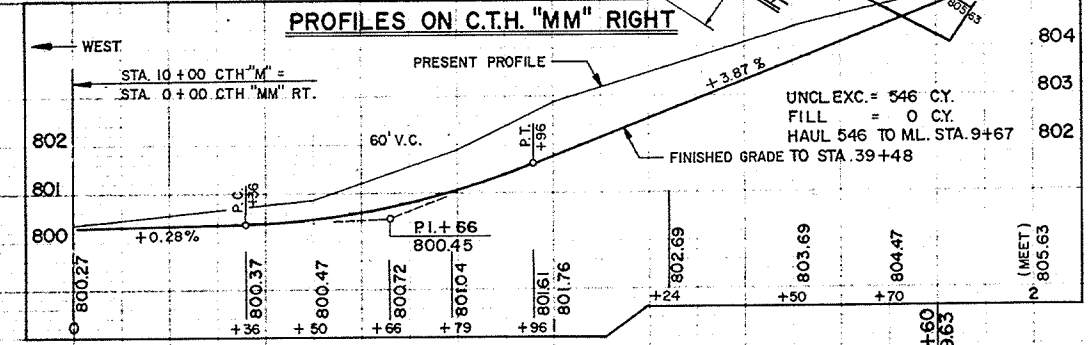


BENCH MARKS			
NO.	STATION	DESCRIPTION	ELEV.
1	9+58	SPIKE IN 13" APPLE	50 RT. 802.36

PROJECT	DATE	BY	CHECKED
S 0395 (1)	16	85	



NET LENGTH OF CENTERLINE	
STATION TO STATION	LIN. FT.

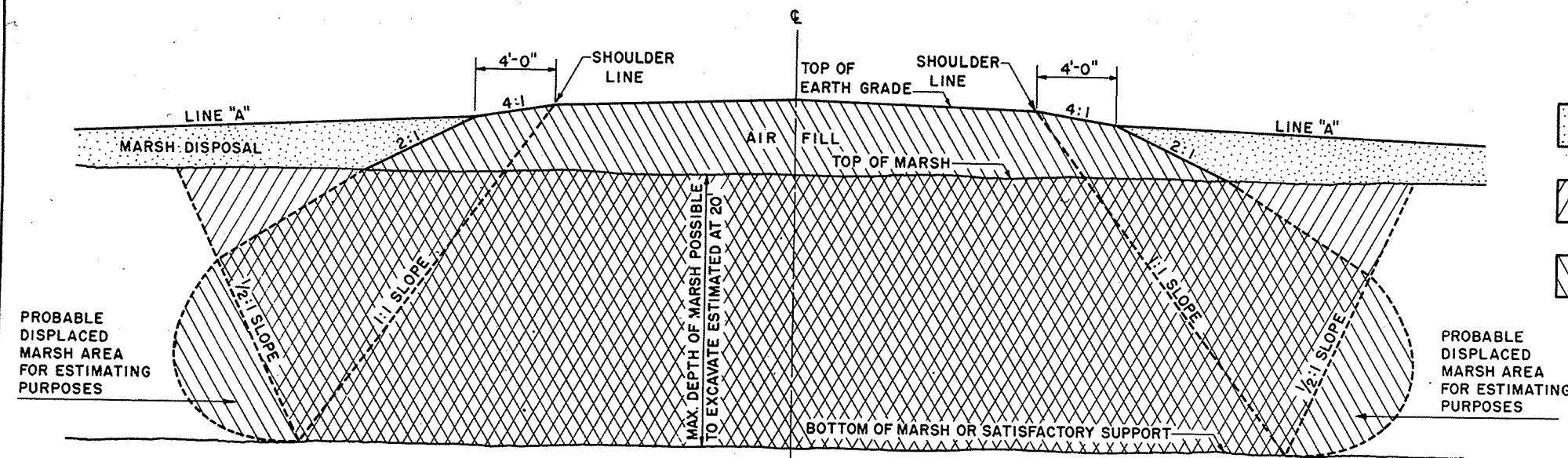


PROFILES ON RIGHT

PROFILES ON TRANSIT LINE

PROFILES ON C.T.H. "MM" RIGHT

LT - TOP OF CURB (EXISTING)	97.66	97.67	96.80	96.64
LT - GUTTER FLOWLINE (EXISTING)	97.01	97.01	97.58	97.12
98.20 LT - EDGE OF PAVEMENT	97.86	97.44	97.99	96.70
98.60 LT - PRESENT PROFILE	97.98	97.92	97.75	96.53
99.03 LT - FINISHED GRADE	98.69	98.29	97.64	97.03
99.20 RT - EDGE OF PAVEMENT	98.86	98.46		
99.03 RT - GUTTER FLOWLINE	98.69	98.29		
99.53 RT - TOP OF CURB	99.19	98.79		



MARSH DISPOSAL PERMITTED IN THIS AREA UNLESS OTHERWISE PROVIDED IN THE CONTRACT

EXCAVATION

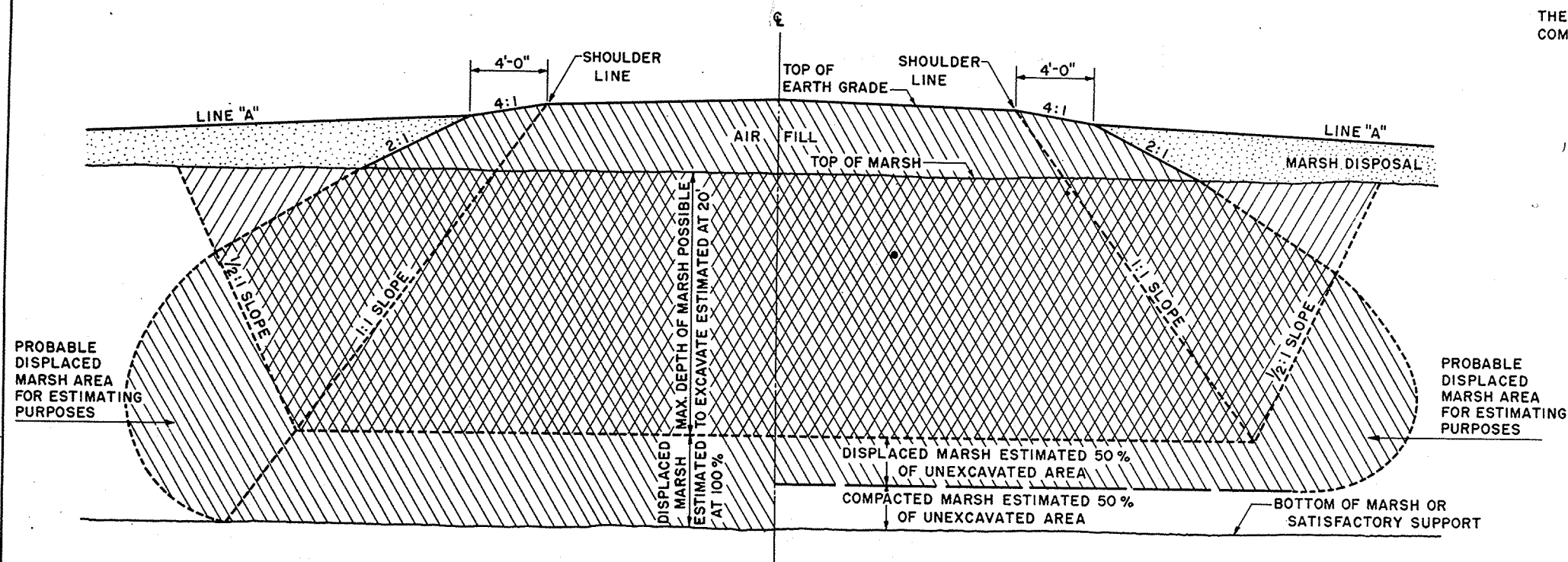
BACKFILL

COMPLETE MARSH EXCAVATION

GENERAL NOTES

DETAILS OF CONSTRUCTION NOT SHOWN SHALL CONFORM TO THE PERTINENT REQUIREMENTS OF THE STANDARD SPECIFICATIONS AND THE APPLICABLE SPECIAL PROVISIONS.

ANY MATERIAL TEMPORARILY PLACED ABOVE THE LINE MARKED "LINE A" IS TO BE REMOVED UPON COMPLETION OF THE AIR FILL.



**PARTIAL EXCAVATION
PLUS 100% DISPLACEMENT**

**PARTIAL EXCAVATION
PLUS 50% DISPLACEMENT**

MARSH EXCAVATION

STATE HIGHWAY COMMISSION OF WISCONSIN

RECOMMENDED FOR APPROVAL:

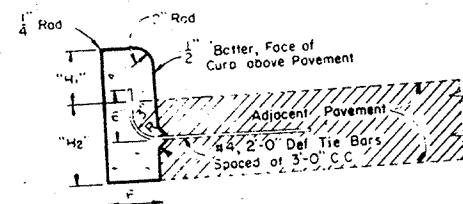
DATE 2/11/52 [Signature]
CONSTRUCTION ENGINEER

APPROVED:

DATE 2/11/52 [Signature]
STATE HIGHWAY ENGINEER

DRAWN LJD
CHECKED

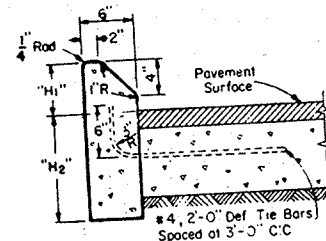
1-1.1.2



Tie Bar recess positioned in reverse when Concrete Curb is constructed first.
 $H_1 = 9"$ max and $3\frac{1}{2}"$ min. and shall be 6" unless otherwise shown on the plans.
 H_2 - Same as adjacent pavement thickness for rigid pavement and 12" for other than rigid pavement (Tie Bars Omitted).
 $H_3 = 12"$ For other than rigid pavement (Tie Bars Omitted).

TYPE "A" (Including Tie Bars) TYPE "D" (Excluding Tie Bars)

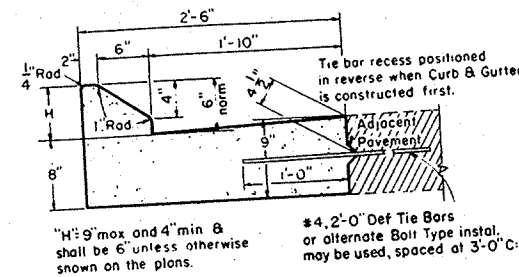
CONCRETE CURB



$H_1 = 9"$ Max and 4" min and shall be 6" unless otherwise shown on plans.
 H_2 - Same as adjacent pavement thickness for rigid pavement and 12" for other than rigid pavement (Tie Bars Omitted).

TYPE "G" (Including Tie Bars) TYPE "J" (Excluding Tie Bars)

CONCRETE CURB
 (Mountable Type)



$H_1 = 9"$ max and 4" min & shall be 6" unless otherwise shown on the plans.

TYPE "G" (Including Tie Bars) TYPE "J" (Excluding Tie Bars)

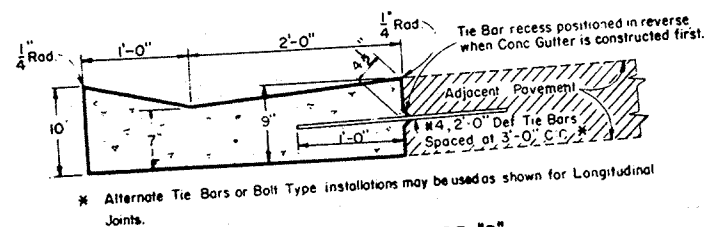
CONCRETE CURB AND GUTTER
 (Mountable Type)

GENERAL 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 -

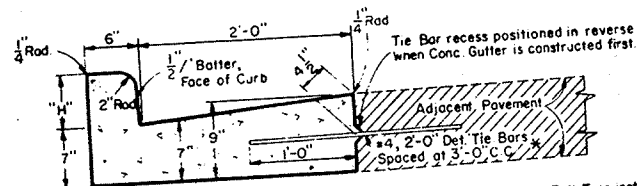
Joints shall not be sealed in concrete curb, concrete gutter, concrete curb and gutter, or concrete surface drains.



* Alternate Tie Bars or Bolt Type installations may be used as shown for Longitudinal Joints.

TYPE "A" (Including Tie Bars) TYPE "D" (Excluding Tie Bars)

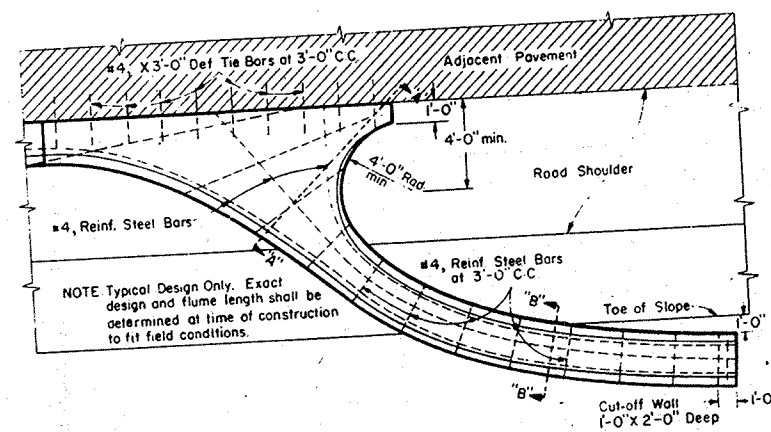
CONCRETE GUTTER



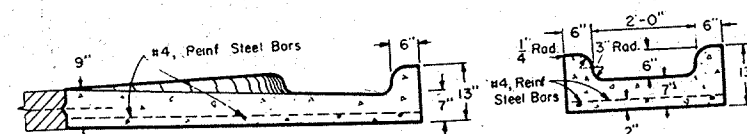
$H_1 = 9"$ Max, $3\frac{1}{2}"$ Min. and shall be 6" unless otherwise shown on the plans.
 * Alternate Tie Bars or Bolt Type installations may be used as shown for Longitudinal Joints.

TYPE "A" (Including Tie Bars) TYPE "D" (Excluding Tie Bars)

CONCRETE CURB AND GUTTER
 (Barrier Type)

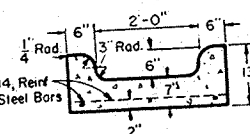


NOTE Typical Design Only. Exact design and flume length shall be determined at time of construction to fit field conditions.



SECTION "A-A"

CONCRETE INLET OR DISCHARGE FOR CURB AND GUTTER SURFACE DRAIN



SECTION "B-B"

**CONCRETE CURB, CONCRETE GUTTER
 CONCRETE CURB AND GUTTER AND
 CONCRETE SURFACE DRAINS**

STATE HIGHWAY COMMISSION OF WISCONSIN

RECOMMENDED FOR APPROVAL

DATE 2-5-63

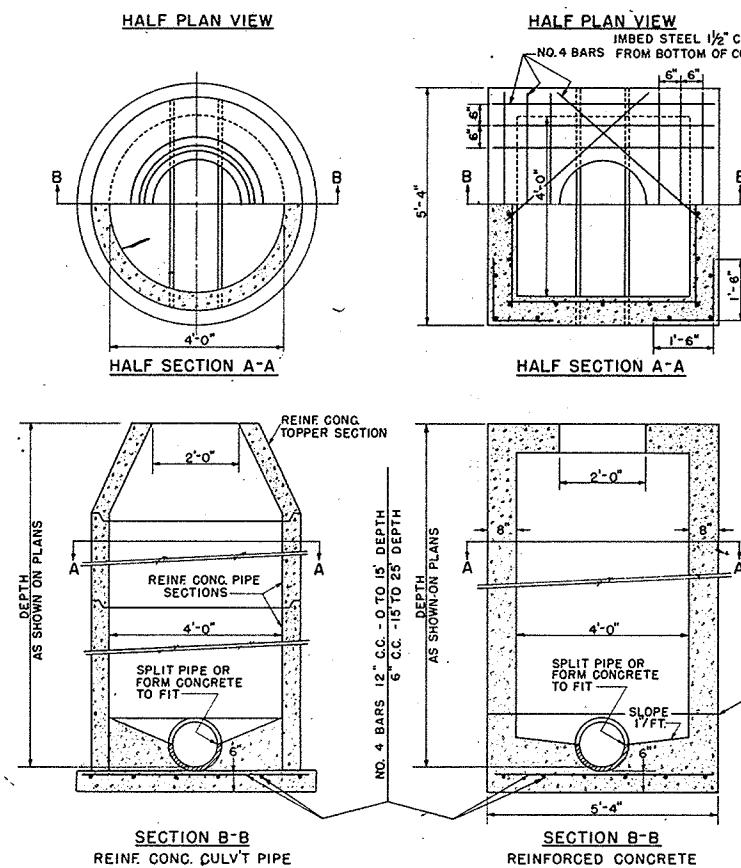
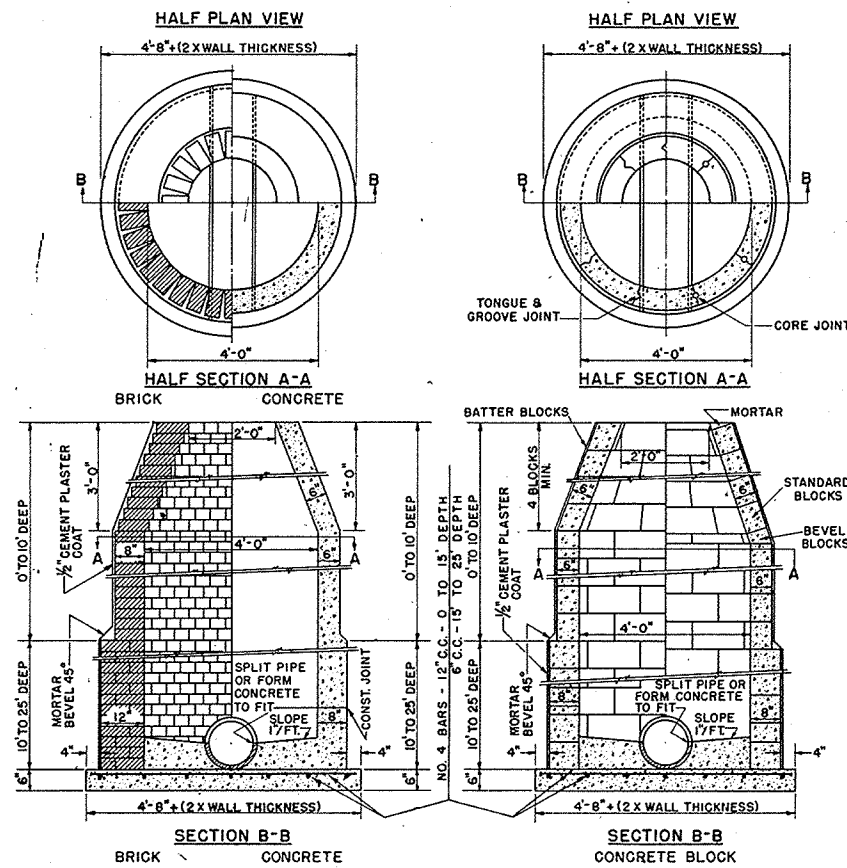
APPROVED:

DATE 2/6/63

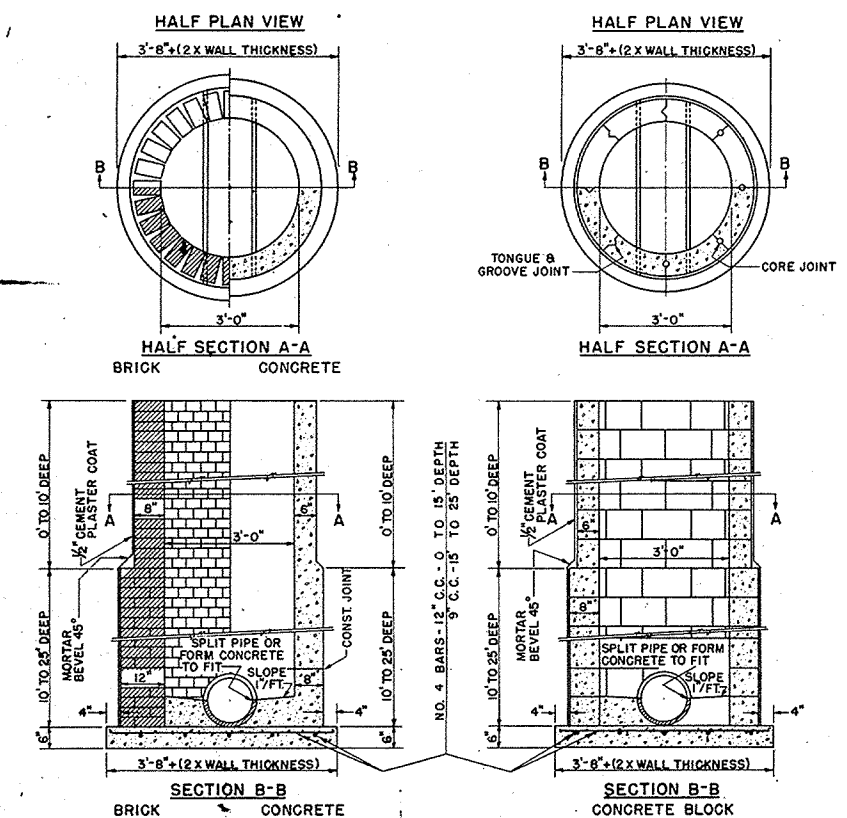
J. J. Pelt ENGINEER OF DESIGN

E. C. Rostkowsky STATE HIGHWAY ENGINEER

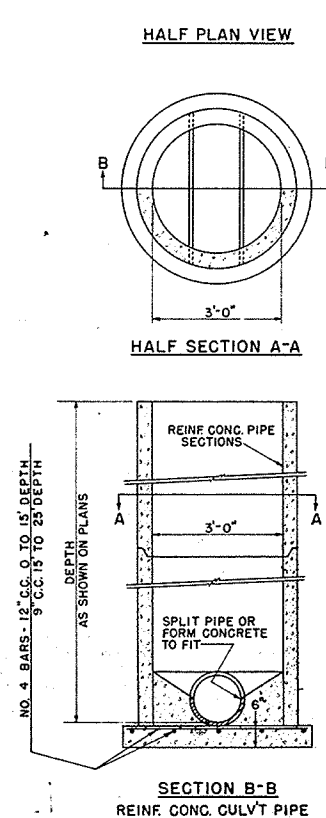
PLATE NO. 3-1.1.7



TYPE 1



TYPE 2

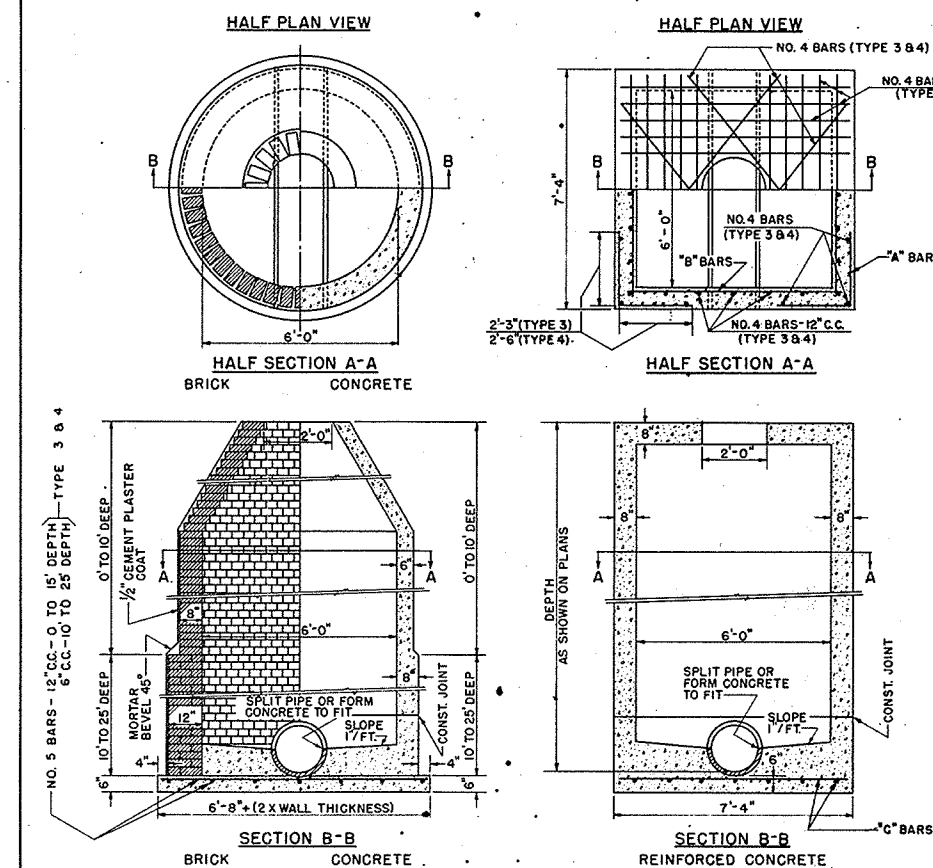


CONSTRUCTION NOTES
 DETAILS RELATIVE TO THESE ITEMS SHALL CONFORM TO THE PERTINENT REQUIREMENTS OF THE STANDARD SPECIFICATIONS AND THE APPLICABLE SPECIAL PROVISIONS. STEPS SHALL BE INSTALLED IN ALL MANHOLES.

VARIATIONS IN DIMENSIONS AND DESIGN WILL BE PERMISSIBLE PROVIDING EQUIVALENT CAPACITY AND STRENGTH ARE ATTAINED.
 STRUCTURES ARE CALLED FOR ON THE PLANS AS "MANHOLES 1'-1\"/>

DESIGN NOTES

INSIDE DIMENSIONS FOR MANHOLES:
 USE 3' DIAMETER WHEN NECESSARY TO PLACE IN CONSTRUCTED AREAS.
 USE 4' DIAMETER WHEN SEWER IS UNDER 18" IN DIAMETER.
 USE 6' DIAMETER OR 6' SQUARE WHEN SEWER IS 18" TO 54" 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 25' DEPTH
 "C" BARS - NO. 5 BARS - 12" C.C. - 0 TO 10' DEPTH
 6" C.C. - 10' TO 25' DEPTH

TYPE 4

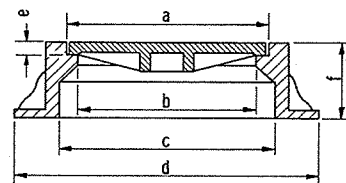
FOR SEWER GREATER THAN 54" DIAMETER SPECIAL DESIGN IS REQUIRED SHOWING INSIDE DIMENSION OF MANHOLE TO BE DIAMETER OF SEWER PLUS 18". SPECIAL DESIGN SHALL CONFORM TO THE GENERAL DETAILS FOR TYPE 3.

"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

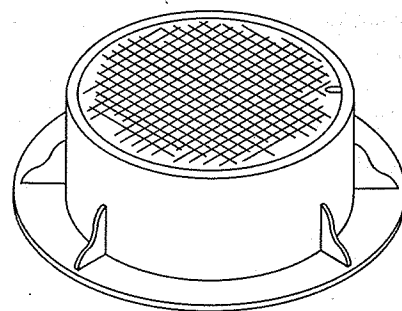
MANHOLES

STATE HIGHWAY COMMISSION OF WISCONSIN

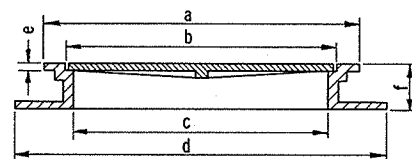
RECOMMENDED FOR ADOPTION
 DATE 2-5-63
 APPROVED: J. J. Pelt
 DATE 2/16/63
 STATE HIGHWAY ENGINEER



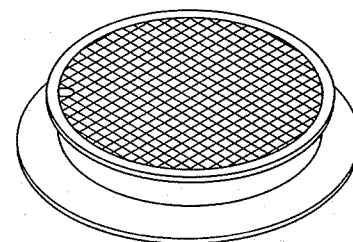
	a	b	c	d	e	f	Weight
TYPE "J"	23"	20½"	25½"	36"	1½"	9"	400 Lbs.
TYPE "K"	32½"	30"	36"	46"	1½"	10"	750 Lbs.



TYPE "J" & "K"



	a	b	c	d	e	f	Weight
TYPE "L"	28"	24"	22½"	33"	5/8"	4"	210 Lbs.
TYPE "M"	42"	37½"	36"	47"	3/4"	4"	475 Lbs.



TYPE "L" & "M"

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.

BEARING SURFACES

All manhole covers which are placed in vehicular traffic areas shall be "Non-Rocking" type so as to prevent any or all cover noise under traffic.

NOMENCLATURE

All manholes are designated on the plans as "Manholes 1-J", "Manholes 2-K" etc. This designation is interpreted to mean that the numeral designates the masonry portion of the structure and the letter designates the type of cover or iron casting to be used therewith to comprise the complete unit "Manhole".

ALTERNATE DESIGNS

Detailed drawings for proposed alternate designs for "Manhole Covers" may be submitted to the Engineer for approval providing that such alternate designs make provision for equivalent capacity and strength.

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 1/5/67

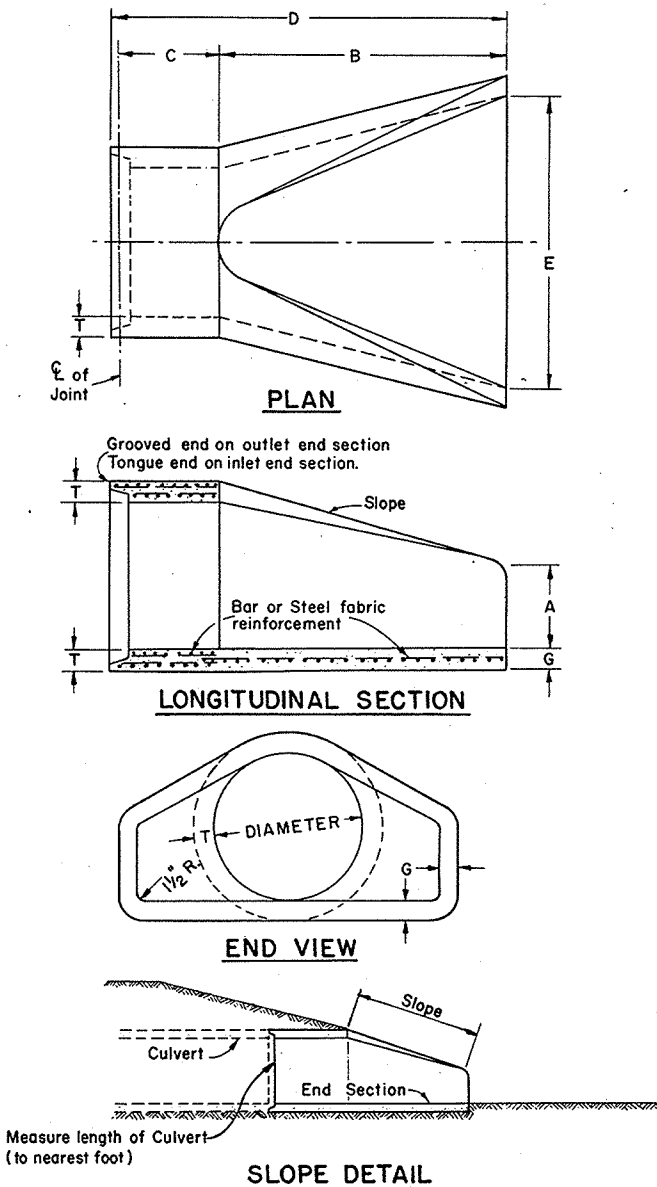
E. J. Biskit
CHIEF DESIGN ENGINEER

APPROVED:

DATE 1/16/67

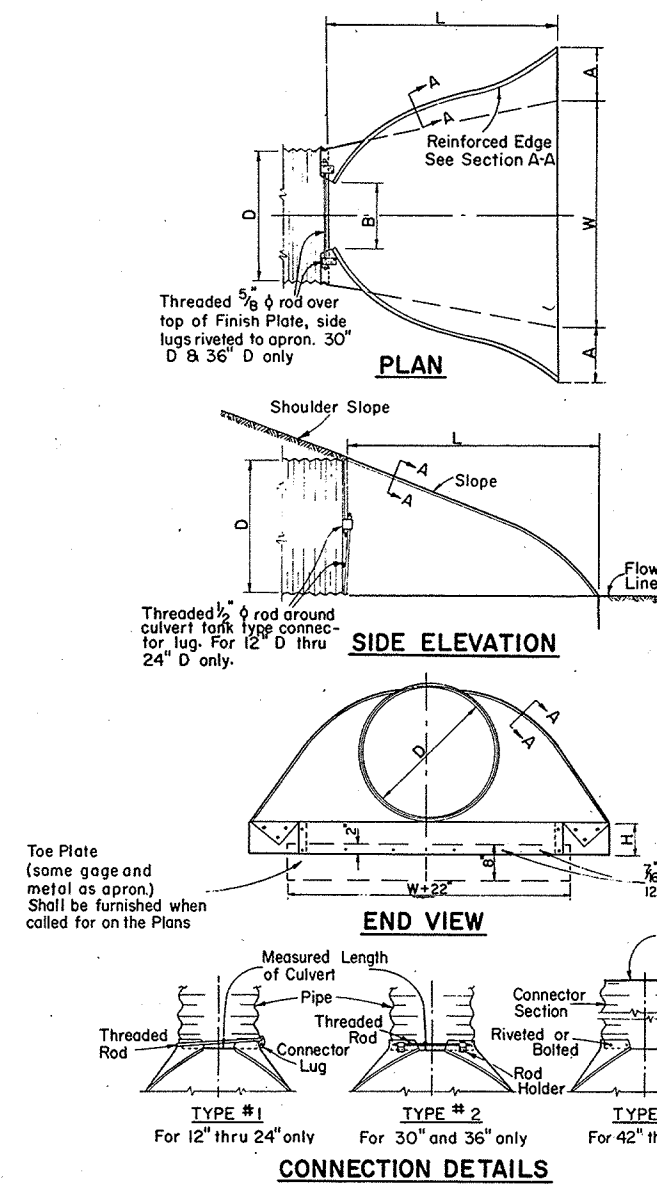
H. J. Burmeister
STATE HIGHWAY ENGINEER

Plate No. 5-3.8.3



DIA.	APPROX. WEIGHT / SECTION	APPROX. SLOPE	T	A	B	C	D	E	G
12"	530	3 to 1	2"	4"	24"	48"	72"	24"	2"
15"	740	3 to 1	2 1/2"	6"	27"	46"	73"	30"	2 1/4"
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 1/2"	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 1/2"	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"
54"	8040	2 1/2 to 1	5 1/2"	27"	65"	33 3/4"	98 1/2"	90"	5"
60"	8730	2 to 1	6"	30"	60"	39"	99"	96"	5"
66"	10,630	2 to 1	6 1/2"	33"	66"	42"	99"	102"	5 1/2"
72"	12,520	2 to 1	7"	36"	78"	21"	99"	108"	6"
78"	14,430	2 to 1	7 1/2"	39"	78"	21"	99"	114"	6 1/2"
84"	18,160	1 1/2 to 1	8"	36"	90"	21"	111 1/2"	120"	6 1/2"

REINFORCED CONCRETE APRON ENDWALLS

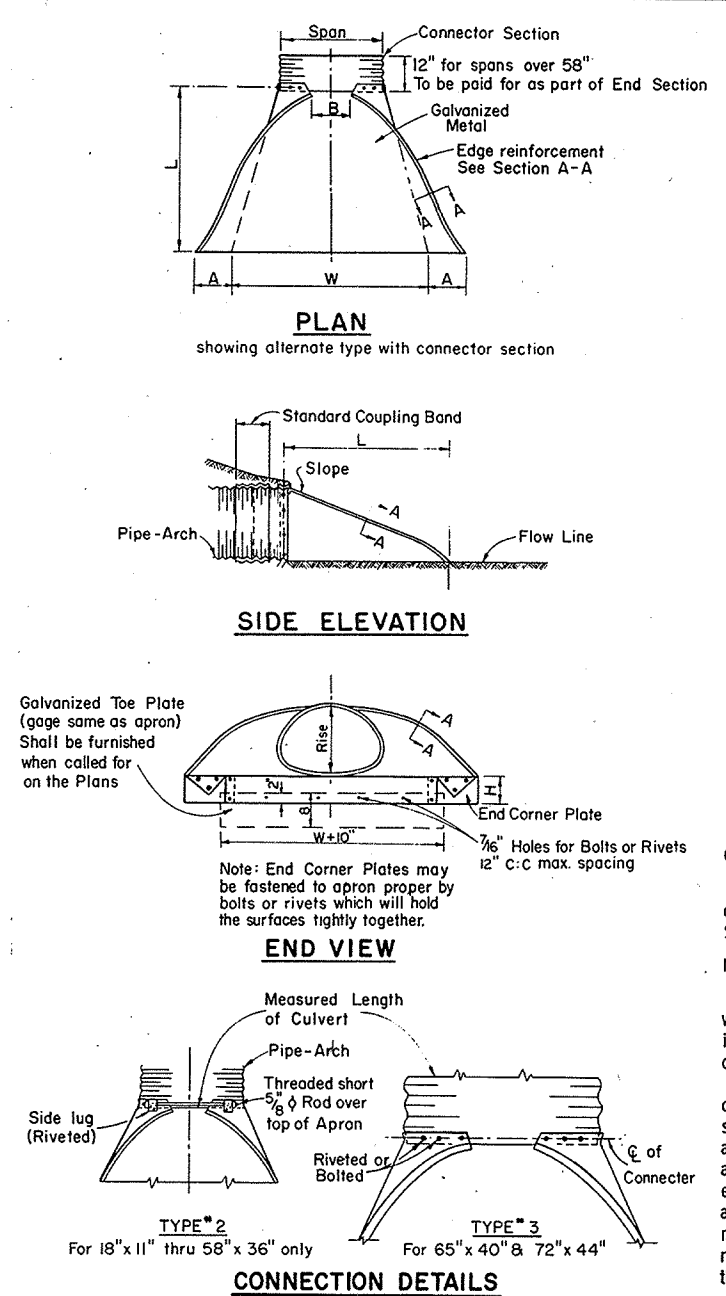


D	Gage	Dimensions	Approx. Slope
Pipe Diam.	Min.	A ± 1" B Max. ± 1" H ± 1" L ± 1" W ± 2"	
12"	16	6" 6" 6" 21"	2 1/2 to 1
15"	16	7" 8" 6" 26"	30"
18"	16	8" 10" 6" 31"	36"
21"	16	9" 12" 6" 36"	42"
24"	16	10" 13" 6" 41"	48"
30"	14	12" 16" 8" 51"	60"
36"	14	14" 19" 9" 60"	72"
42"	12	16" 22" 11" 69"	84"
48"	12	18" 27" 12" 78"	90"
54"	12	18" 30" 12" 84"	102"
60"	12	18" 33" 12" 87"	114"
66"	12	18" 36" 12" 87"	120"
72"	12	18" 39" 12" 87"	126"
78"	12	18" 42" 12" 87"	132"
84"	12	18" 45" 12" 87"	138"

Note: All splices to be lap riveted or bolted.

METAL APRON ENDWALLS

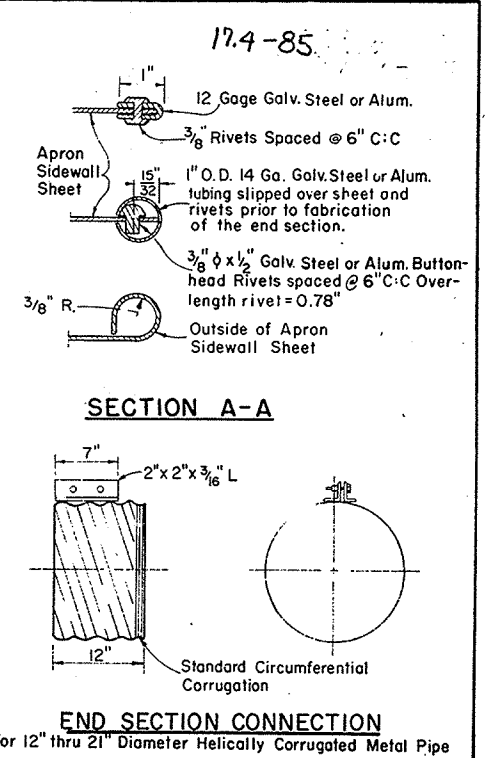
APRON ENDWALLS FOR CULVERT PIPE



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

Note: All splices to be lap riveted or bolted.

APRON ENDWALLS FOR PIPE ARCH



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.

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.

Reinforced concrete apron endwalls shall be used with concrete pipe culvert installations, steel apron endwalls shall be used with corrugated steel pipe culvert installations, and aluminum apron endwalls shall be used with corrugated aluminum pipe culvert installations, except that steel apron endwalls may be used on 54 inch and larger corrugated aluminum pipe culverts when a non-metallic insulation material is placed between the steel and aluminum. The non-metallic insulation material shall be so placed between the two metals so as to prohibit galvanic action from occurring.

When two or more pipes or pipe arches with apron endwalls are to be laid adjacent to each other, they shall be separated by the following amount:

Pipes: Total width of apron endwall less the diameter of pipe plus 6 inches.
Pipe Arches: Total width of apron endwall less the span dimension of the pipe arch plus 6 inches.

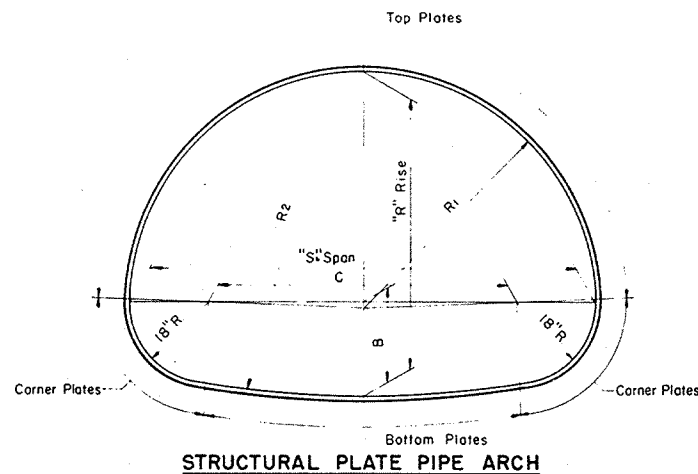
APRON ENDWALLS FOR CULVERT PIPE & PIPE ARCH

STATE HIGHWAY COMMISSION OF WISCONSIN

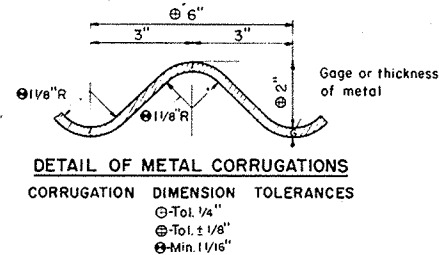
RECOMMENDED FOR APPROVAL:

DATE: 1/26/77

DATE: 2/6/77



STRUCTURAL PLATE PIPE ARCH



DETAIL OF METAL CORRUGATIONS

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.

TOLERANCES

Pipe Arch size dimensions are subject to manufacturing tolerances and the ratio of rise (R) to span (S) shall not exceed a tolerance of 5% plus or minus.

Metal corrugation dimension tolerances shall not exceed pertinent dimensions shown elsewhere on this drawing.

EMBANKMENT—Minimum for $\frac{1}{2}$ Culverts

For Flexible Type Pavement, the minimum depth of embankment or cover over top of Pipe Arch (finished construction) shall be "S"/10 or 1'-0" minimum.

For Rigid Type Pavement, the minimum depth of embankment over top of Pipe Arch shall be "S"/4 or a minimum of 6" cushion between pipe and pavement.

EMBANKMENT—Maximum for $\frac{1}{2}$ Culverts

The maximum depth of embankment shall be 15 feet (finished construction).

Adequate cover protection for Pipe Arches shall be provided at all times during construction operations to preclude any damage to structures.

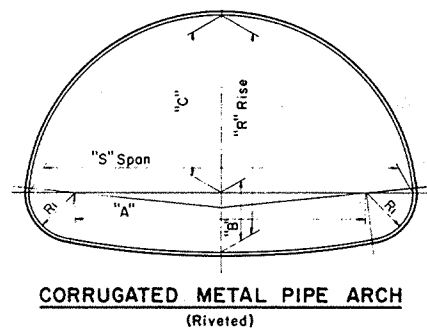
Strutting of Pipe Arches will not be required during construction unless specifically called for on the plans or the applicable Special Provisions.

TABLE OF PROPERTIES
STRUCTURAL PLATE PIPE ARCH

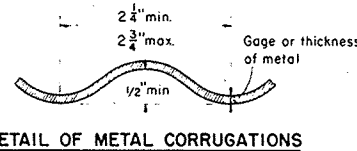
SPAN Nominal Size	Dimensions taken from inside crests of corrugations								Table of Metal Gages—Minimum Acceptable														
	Fabricators Size Min. Acceptable "S" Span—"R" Rise	R/S Ratio	Area Sq.Ft.	B In.	C In.	R1 In.	R2 In.		H-20 LOADING														
									Depth of Embankment in Feet														
6 Feet	6'-1" x 4'-7"	.75	22	21.0	37.0	36.7	76.4		12	12	12	12	12	12	12	12	12	12	12	12	12	12	12
7 "	7'-0" x 5'-1"	.73	28	21.4	48.0	42.3	104.5		10	12	12	12	12	12	12	12	12	12	12	12	12	10	10
8 "	7'-11" x 5'-7"	.70	35	21.7	59.0	47.7	138.4		10	10	10	12	12	12	12	12	12	12	12	10	10	10	10
9 "	8'-10" x 6'-1"	.69	43	21.8	70.0	53.0	179.2		10	10	10	10	10	10	10	10	10	10	10	10	8	8	8
10 "	9'-9" x 6'-7"	.67	52	21.9	81.0	58.3	228.0		8	8	10	10	10	10	10	10	10	10	10	8	8	8	7
11 "	10'-11" x 7'-1"	.65	61	25.1	95.0	65.8	180.8		8	8	8	10	10	10	10	10	10	8	8	8	7	7	5
12 "	11'-10" x 7'-7"	.64	71	25.2	106.0	71.1	217.0		7	8	8	8	8	8	8	8	8	8	8	7	5	5	3
13 "	12'-10" x 8'-4"	.65	85	24.0	118.0	77.2	315.2		5	7	8	8	8	8	8	8	8	7	7	5	5	3	1
14 "	13'-11" x 8'-7"	.62	93	28.9	131.0	84.4	220.8		5	5	7	7	8	8	8	7	7	5	5	3	3	1	1
15 "	14'-10" x 9'-1"	.61	105	28.9	142.0	89.5	254.9		3	5	5	7	7	7	7	7	5	3	3	1	1	-	-
16 "	15'-10" x 9'-10"	.62	122	27.4	154.0	95.4	339.1		1	3	5	5	7	7	7	5	3	3	1	1	-	-	-
16.5 "	16'-7" x 10'-1"	.61	131	28.7	163.0	99.8	333.8		-	1	3	3	5	5	5	3	1	1	1	-	-	-	-

Note: For sizes of Structural Plate Pipe Arch between those shown in the table, the gage shall be interpolated (based on table data) where possible; otherwise the gage of the next larger size shown in the table shall be used.

STRUCTURAL PLATE PIPE ARCH



CORRUGATED METAL PIPE ARCH
(Riveted)



DETAIL OF METAL CORRUGATIONS

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.

TOLERANCES

Tolerance from the dimensions detailing size and shape will be permissible providing equivalent capacity and strength are attained.

EMBANKMENT—Minimum for $\frac{1}{2}$ Culverts

For Flexible Type Pavement, the minimum depth of embankment or cover over top of Pipe Arch (finished construction) shall be "S"/10 or 9" minimum.

For Rigid Type Pavement, the minimum depth of embankment over top of Pipe Arch shall be "S"/4 or a minimum of 3" cushion between pipe and pavement.

EMBANKMENT—Maximum for $\frac{1}{2}$ Culverts

The maximum depth of embankment shall be 10 feet (finished construction).

Adequate cover protection for Pipe Arches shall be provided at all times during construction operations to preclude any damage to structures.

TABLE OF DIMENSIONS
CORRUGATED METAL PIPE ARCH

Gage (Min. Acceptable)	CORRUGATED METAL PIPE ARCH								Round Pipe of Approx. Equal Periphery	
	"S" Span Inches	"R" Rise Inches	"A" Inches	"B" Inches	"C" Inches	R1 Inches	R/S Ratio	Area Sq.Ft.	Area Sq.Ft.	Diam. Inches
16	18	11	10	4 1/2	6 1/2	3 1/2	.61	1.1	1.23	15
16	22	13	14	4 3/4	8 1/4	4	.59	1.6	1.77	18
16	25	16	17	5 1/4	10 3/4	4	.64	2.2	2.41	21
14	29	18	20	5 1/2	12 1/2	4 1/2	.62	2.8	3.14	24
14	36	22	26	6 1/4	15 3/4	5	.61	4.4	4.91	30
12	43	27	32	7	20	5 1/2	.63	6.4	7.07	36
12	50	31	38	8	23	6	.62	8.7	9.62	42
12	58	36	44	9 1/4	26 3/4	7	.62	11.4	12.57	48
12	65	40	49	10 1/2	29 1/2	8	.62	14.3	15.90	54
10	72	44	54	11 3/4	32 1/4	9	.61	17.6	19.64	60

NOTE: All Dimensions measured from inside crest of corrugations.

CORRUGATED METAL PIPE ARCH

STRUCTURAL PLATE PIPE ARCH
CORRUGATED METAL PIPE ARCH

STATE HIGHWAY COMMISSION OF WISCONSIN

RECOMMENDED FOR APPROVAL

DATE 2-5-63

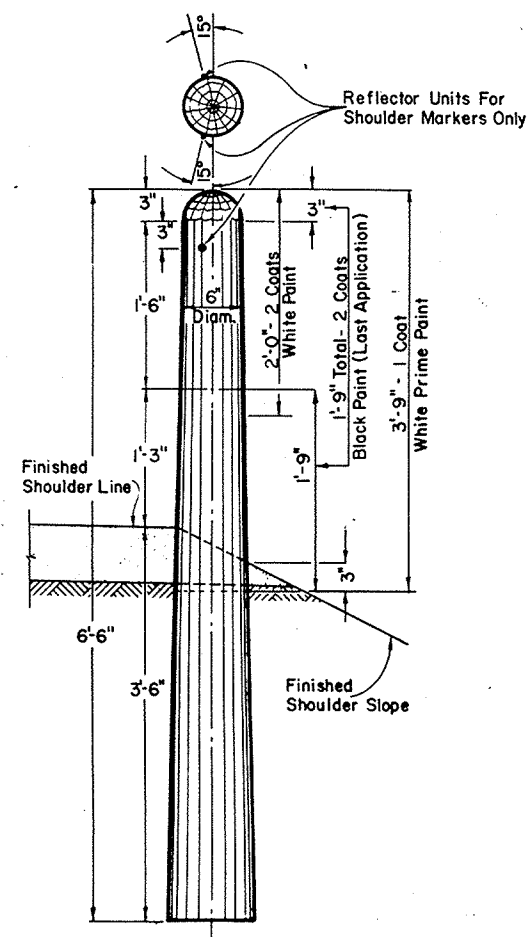
APPROVED:

DATE 2/6/63

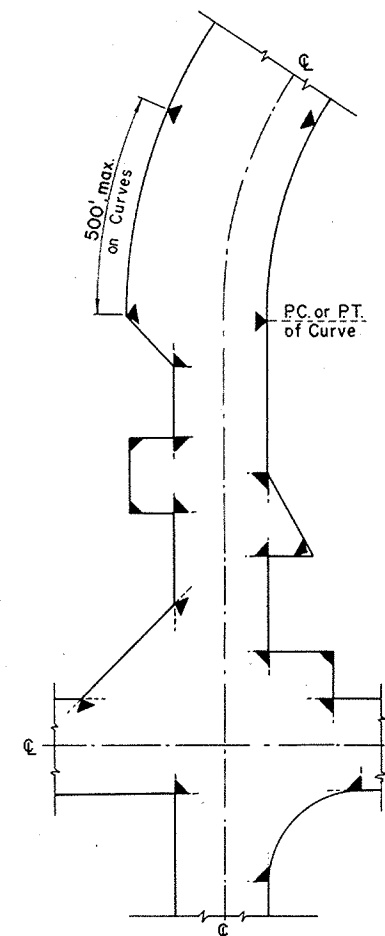
ENGINEER OF DESIGN

STATE HIGHWAY ENGINEER

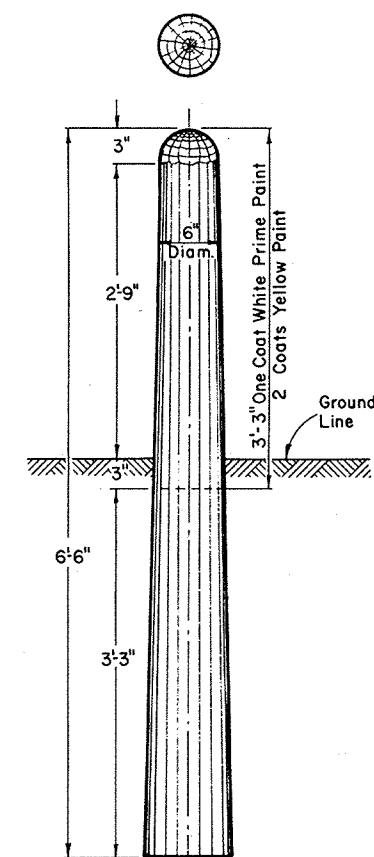
PLATE NO. 6-5.2



**MARKER POST FOR
ROAD SHOULDERS**



**LOCATION DIAGRAM
SHOWING TYPICAL LOCATIONS OF
MARKER POSTS FOR RIGHT OF WAY**



**MARKER
POST
FOR
RIGHT OF WAY**

MARKER POST FOR RIGHT OF WAY

GENERAL NOTES

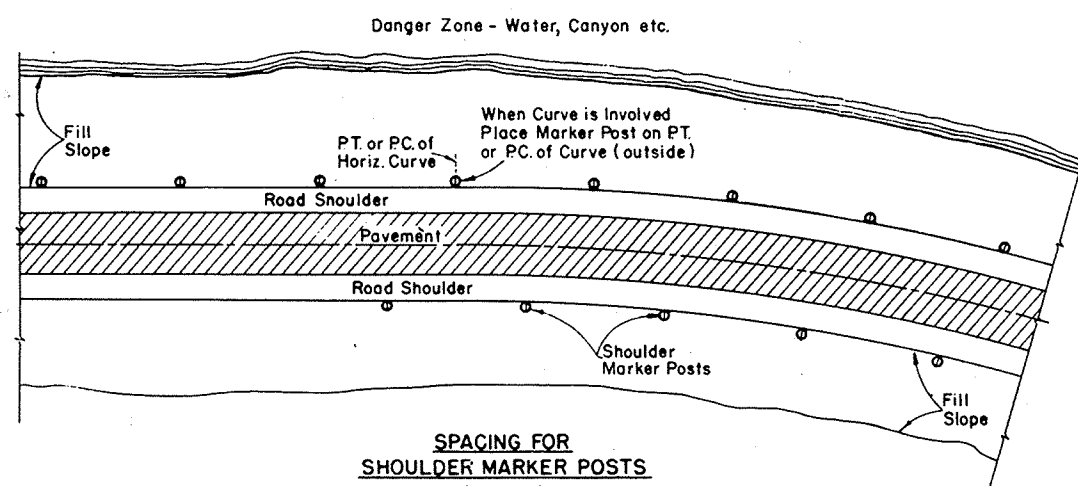
Details of construction not shown on this drawing shall conform to the pertinent requirements of the Standard Specifications and the applicable Special Provisions.

MARKER POSTS FOR RIGHT OF WAY

Right of Way Marker Posts shall be erected in advance of grading operations. Posts shall be placed at the outer limits of the highway Right of Way, but entirely within the Right of Way, and shall be so placed that the outer edge of the posts shall be tangent to the Right of Way line or lines extended. The exact location of all Right of Way posts will be staked in the field by the Engineer.

REFLECTOR UNITS

Reflector Units shall be installed in road shoulder marker posts only. Reflector Units shall have plastic crystal lens 7/8" in diameter. Unit assembly shall be a minimum of 7/8" in length. Reflector Units shall be furnished with flared expanding metal clips for wood mounting. Units shall be mounted in tightest fit possible and securely stayed in posts.



**SPACING FOR
SHOULDER MARKER POSTS**
50' C:C for 100' to 500' Danger Zones
100' C:C for Over 500' Danger Zones

**LOCATION DIAGRAM
SHOWING RELATIVE LOCATIONS OF SHOULDER MARKER POSTS**

MARKER POSTS FOR ROAD SHOULDERS

MARKER POSTS & MARKER POSTS FOR RIGHT OF WAY

State Highway Commission of Wisconsin

RECOMMENDED FOR APPROVAL:

7/6/66

DATE

APPROVED:

7/9/66

DATE

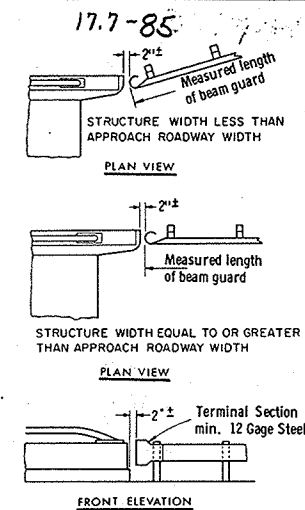
E. J. Rybak

CHIEF DESIGN ENGINEER

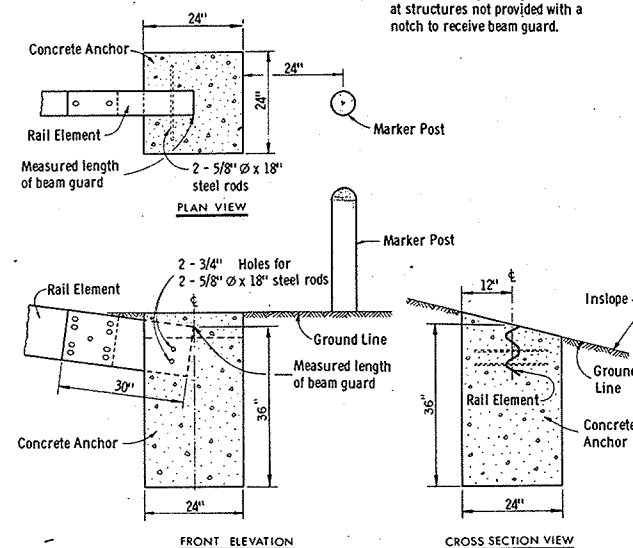
H. J. S. S. S.

STATE HIGHWAY ENGINEER

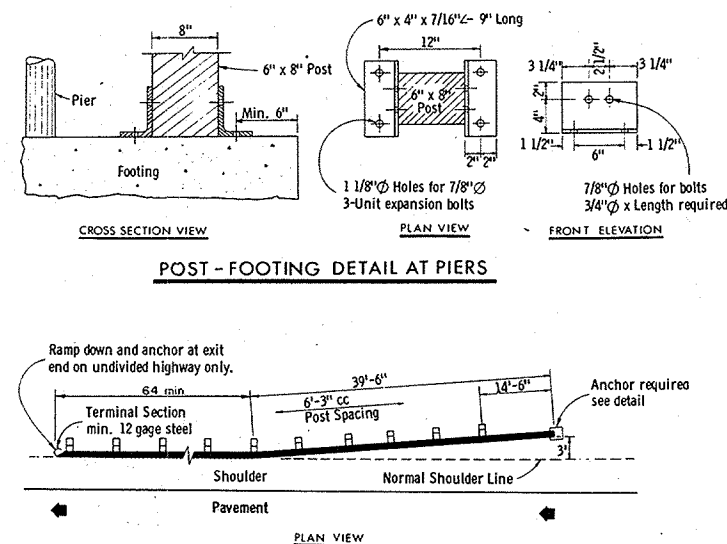
Plate No. 7-1.3.5



For terminating beam guard at structures not provided with a notch to receive beam guard.



ANCHOR DETAIL
FOR SINGLE RAIL ELEMENT INSTALLATION



TYPICAL INSTALLATION AT LOCATIONS OTHER THAN STRUCTURES

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.

POST-FOOTING DETAIL AT PIERS
The Post-Footing Details shall be used when guardrail posts are over structure footings and less than 3'-6" of earth is provided over the top of the footing.

STEEL PLATE BEAM(MEDIAN) GUARD
Eliminate offset blocks for medians less
foot in width.

ALTERNATE ANCHORS
Round anchors will be permitted. Round anchors shall be a minimum of 30 inches in diameter.

STEEL PLATE BEAM GUARD &
STEEL PLATE BEAM (MEDIAN) GUARD

State Highway Commission of Wisconsin

RECOMMENDED FOR APPROVAL

DATE _____ CHIEF DESIGN ENGINEER _____

APPROVED: *[Signature]*

DATE 1/27/56 J. S. Green
STATE HIGHWAY ENGINEER

Plate No. 7-2.4.12

17-8-85

GENERAL NOTES

The contractor shall construct, place and maintain barricades as shown on the drawing and as required by the Standard Specifications or applicable Special Provisions.

CLASS 1 BARRICADE:

Class 1 Barricades shall be of variable length as indicated, and long barricades shall be assembled from these units. The Class 1 Barricade is the type normally required for major operations, where the barricade will remain in place for extended periods. Class 1 Barricades shall be used at points where the road is closed to traffic. Gates or movable sections of a barricade shall be provided when necessary, for access of equipment or other authorized vehicles.

Wing Barricades are Class 1 Barricades erected on the shoulder on one or both sides of the pavement to give Traffic the perceptive effect of a narrowing or restricted roadway. The ends closest to traffic of all three members of a wing barricade shall be in a vertical line. If used in a series, they should start at the outer edge of the shoulder and be brought progressively closer to the pavement. Wing Barricades may be used as a mounting for the advance warning or guide signs or for flashers. When used on two-way roadways, the back of the wing barricade shall be painted reflectorized white.

CLASS 11 BARRICADE:

Class 11 Barricades 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.

MATERIAL & 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. Metal shall be 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 woodworking and metalworking practices.

All lumber or timber dimensions stated are nominal.

PAINTING:

All barricades shall be painted in alternate 4" or 6" black and white stripes at a 45° angle. The width of stripe shall be consistent for each complete barricade installation. Black stripes shall be painted with weather resistant and durable black paint. White stripes shall be primed, followed by two coats of white reflectorized paint or reflective wide angle sheeting.

DIRECTION OF DIAGONAL STRIPES:

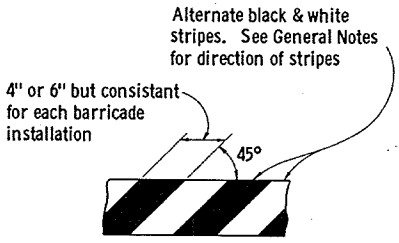
Where a barricade extends entirely across the roadway with no vehicle access provision, the stripes shall slope downward toward the highway centerline. Where vehicle access is permitted, the stripes shall slope downward in the direction toward which vehicles must turn in detouring. Where both right and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

LIGHTING:

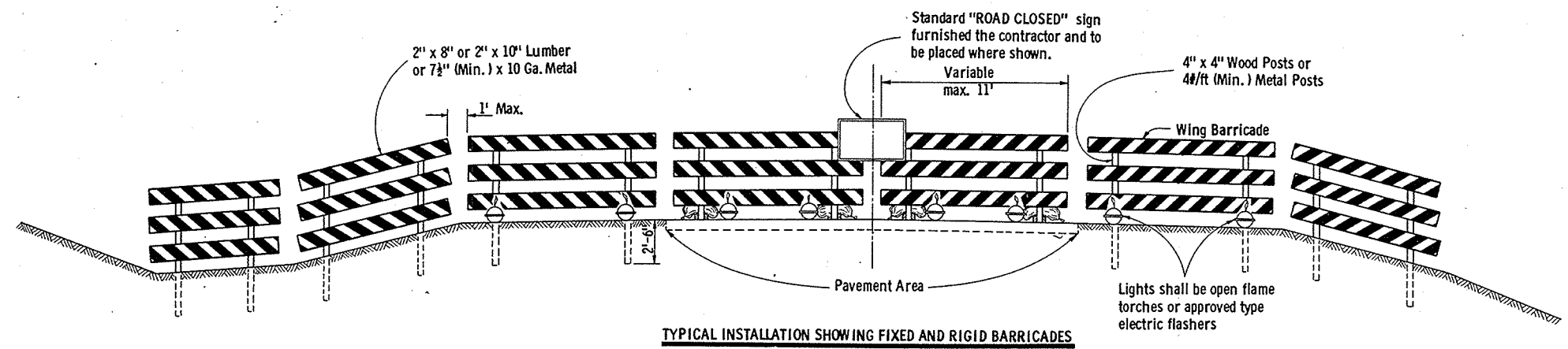
Lighting devices for barricades shall conform to the requirements of the Standard Specifications.

MEASUREMENT & PAYMENT:

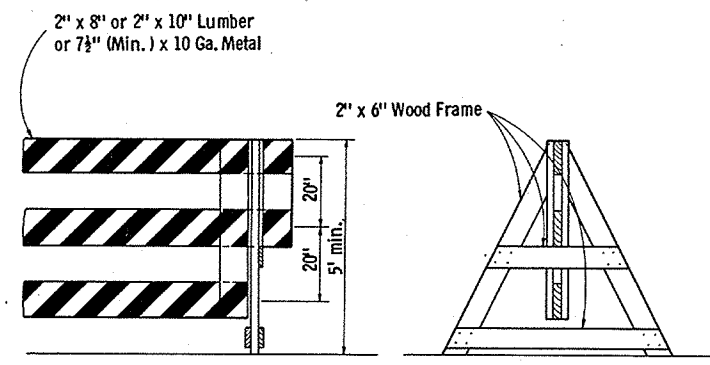
All barricades, unless otherwise provided for in the plans and/or special provisions shall be furnished, placed, and maintained as noted above, and no additional compensation will be allowed but shall be construed to be included in the price bid for other items.



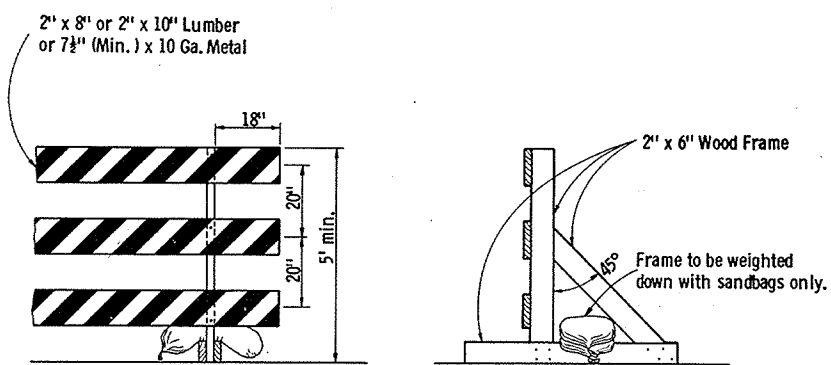
TYPICAL DIAGONAL STRIPES
Applies to all Classes & Types
of Barricades



TYPICAL INSTALLATION SHOWING FIXED AND RIGID BARRICADES

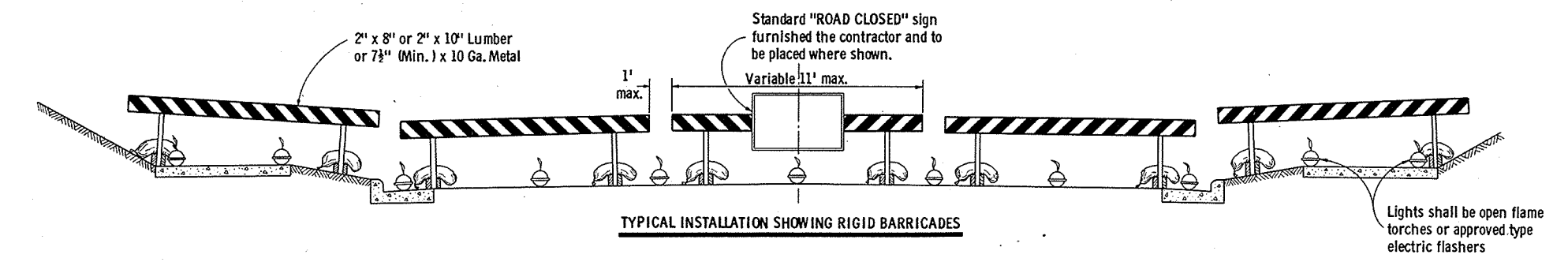


ALTERNATE TYPE INSTALLATION (DISMOUNTABLE)

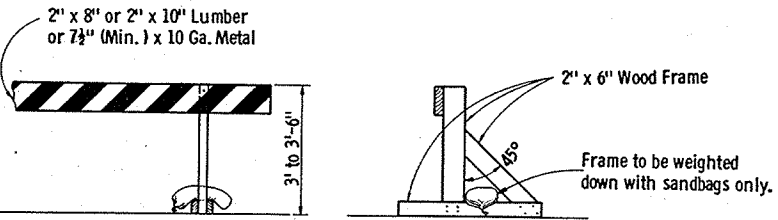


ALTERNATE TYPE INSTALLATION (RIGID)

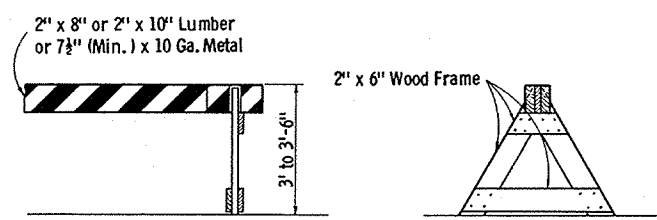
CLASS I BARRICADES



TYPICAL INSTALLATION SHOWING RIGID BARRICADES

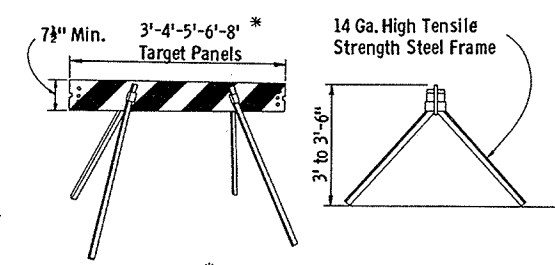


ALTERNATE TYPE INSTALLATION (RIGID)



ALTERNATE TYPE INSTALLATION (DISMOUNTABLE)

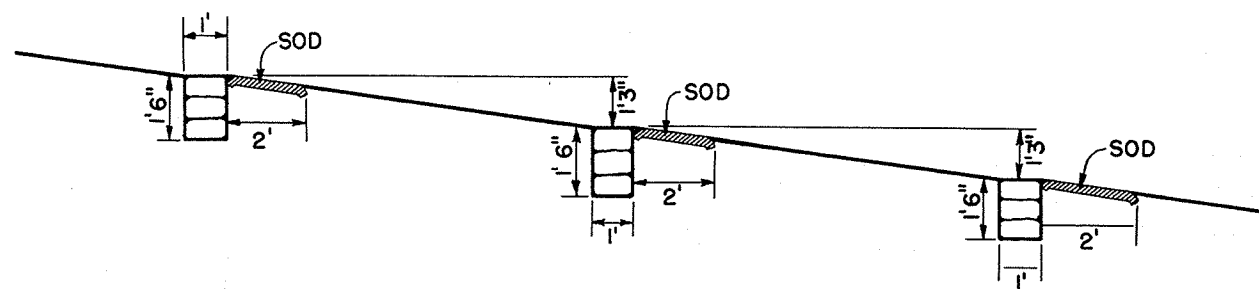
CLASS II BARRICADES



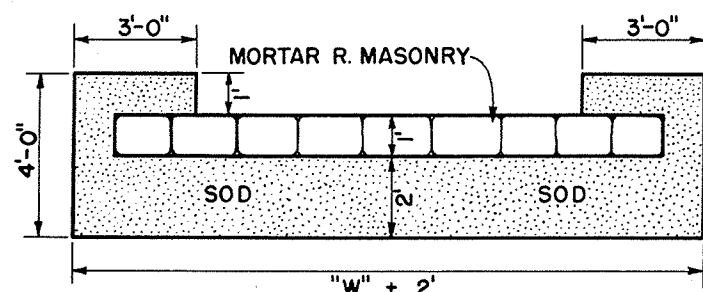
* Maximum length of combination
panels 16'

ALTERNATE TYPE INSTALLATION (DISMOUNTABLE)

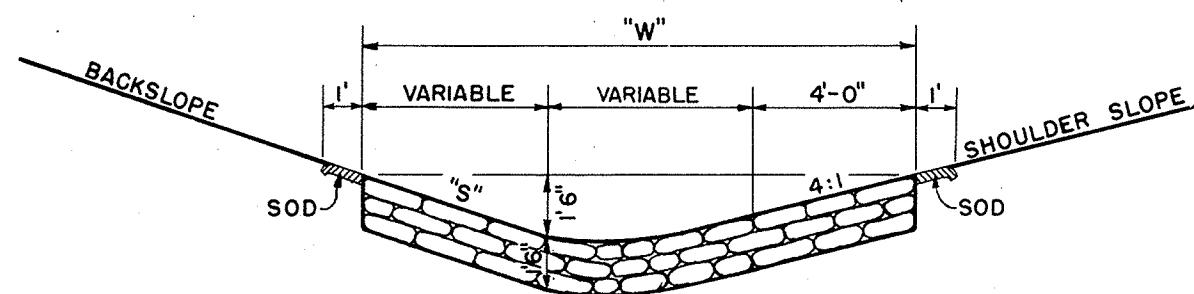
CONSTRUCTION BARRICADE	
State Highway Commission of Wisconsin	
RECOMMENDED FOR APPROVAL:	
DATE: 1/1/67	DESIGN ENGINEER: [Signature]
APPROVED:	
DATE: 1/3/67	STATE HIGHWAY ENGINEER: [Signature]



PROFILE OF DITCH GRADE



PLAN VIEW SHOWING SOD



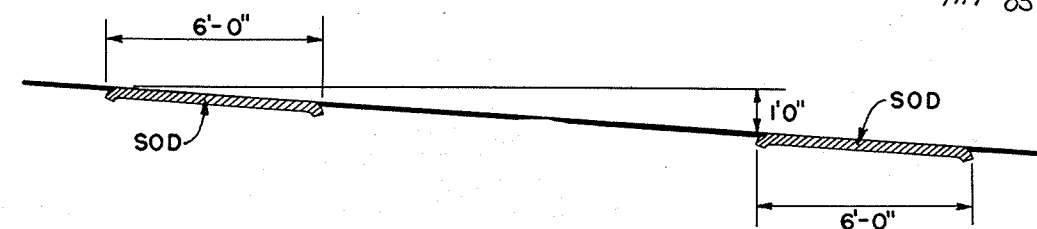
SECTION

MORTAR RUBBLE MASONRY

QUANTITIES			
"S"	"W"	SOD SQ. YD.	EACH CU. YD.
2:1	12'	4.0	0.67
3:1	13.5'	4.33	0.75
4:1	15'	4.67	0.83

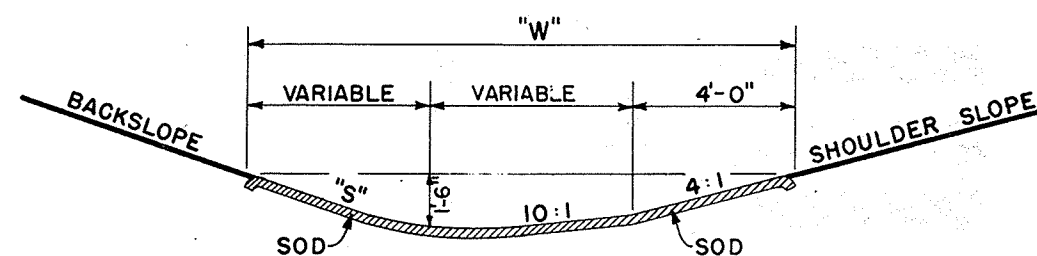
CONSTRUCTION NOTES

DETAILS OF CONSTRUCTION NOT SHOWN SHALL CONFORM TO THE PERTINENT REQUIREMENTS OF THE STANDARD SPECIFICATIONS AND THE APPLICABLE SPECIAL PROVISIONS.



PROFILE OF DITCH GRADE

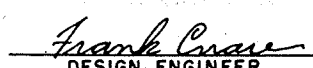
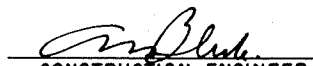
NOTE: NUMBER REQUIRED WILL BE DETERMINED BY VERTICAL SPACING.



SECTION

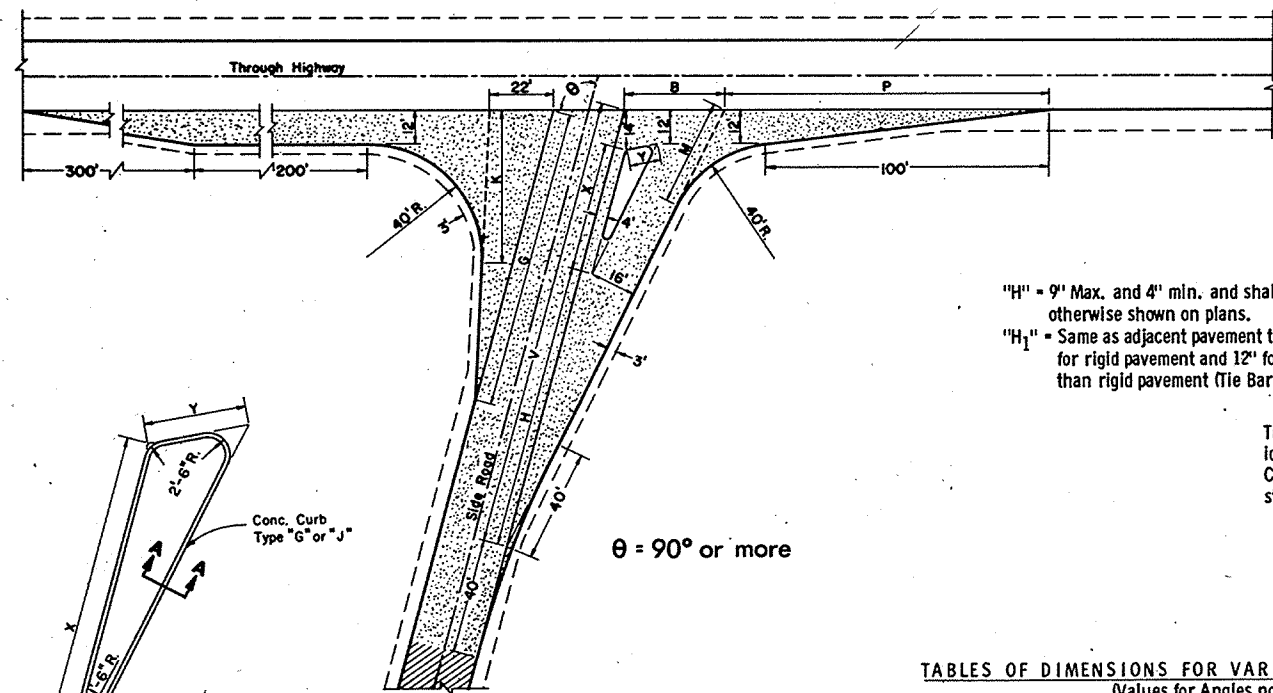
SOD DITCH CHECKS

QUANTITIES		
"S"	"W"	EACH SQ. YD.
2:1	12'	8
3:1	13.5'	9
4:1	15'	10

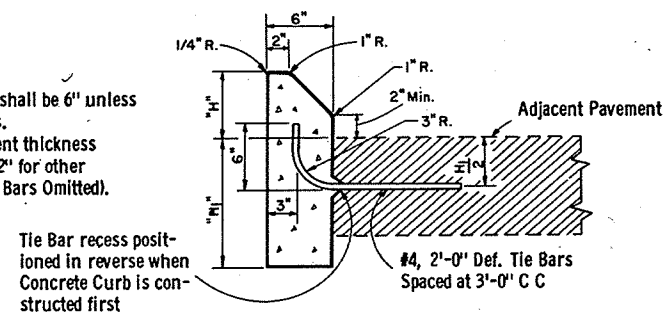
DITCH CHECKS	
MORTAR RUBBLE MASONRY & SOD	
STATE HIGHWAY COMMISSION OF WISC.	
RECOMMENDED FOR APPROVAL:	
 DESIGN ENGINEER	
 CONSTRUCTION ENGINEER	
DATE:	
APPROVED:	
 STATE HIGHWAY ENGINEER	
DRAWN DIV 9	CHECKED

8-1.3.1

8-1.3.1



$\theta = 90^\circ$ or more



Note: To be measured and paid for as Type "G" (Including Tie Bars) or Type "J" (Excluding Tie Bars) Concrete Curbs.

SECTION A - A

TABLES OF DIMENSIONS FOR VARIABLE SIDE ROAD INTERSECTION ANGLES
(Values for Angles not shown shall be interpolated)

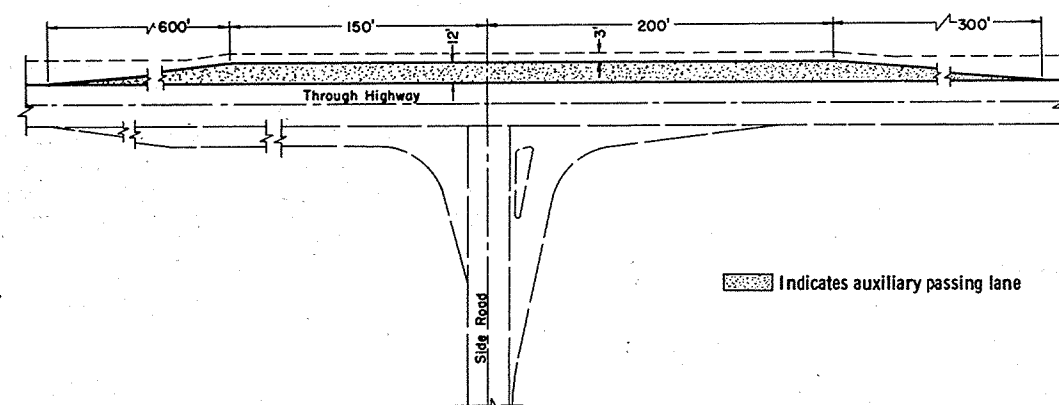
θ	G	K	B	V	H	X	Y	P	M
90	90	43.8	33.9	156.0	94	48.0	11.0	125.0	44.2
95	94	46.7	34.0	156.7	96	47.0	11.0	121.3	41.9
100	98	50.0	34.4	157.4	98	45.9	11.0	117.7	39.7
105	102	53.8	35.2	158.3	100	44.9	11.2	114.2	37.8
110	106	58.2	36.4	159.2	102	43.7	11.4	110.6	36.2
115	110	63.4	38.4	161.8	104	42.6	11.7	107.1	34.8
*120	114	69.4	40.1	161.2	106	41.4	12.2	103.4	33.7

*Maximum angle of intersection

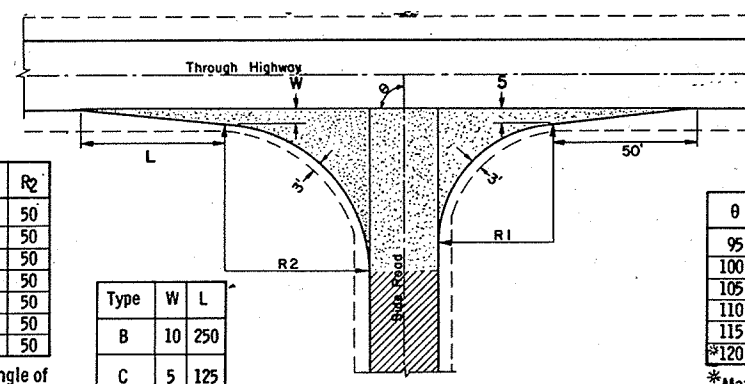
θ	C	G	K	B	V	X	Y	H	P	M	T
*60	19.7	76.3	38.6	41.5	169.9	67.4	29.3	84	144.5	58.8	21.6
65	17.8	82.6	40.6	39.4	166.9	63.6	25.0	86	141.2	54.9	20.7
70	15.8	87.2	43.1	37.4	164.1	59.7	21.9	88	136.8	51.4	19.2
75	15.7	90.9	45.6	35.7	161.4	55.9	19.3	90	132.7	48.2	17.4
80	15.9	94.9	48.3	34.4	158.9	51.9	17.0	92	128.8	45.3	14.9
85	16.2	99.3	51.4	33.4	156.4	48.0	15.0	94	125.2	42.7	10.4

*Desirable Minimum angle of intersection

TYPE "A" SIDE ROAD INTERSECTION DETAILS



PASSING LANE DETAIL



θ	R1	R2
*60	40	50
65	40	50
70	40	50
75	40	50
80	40	50
85	40	50
90	40	50

*Min. Angle of Intersection

Type	W	L
B	10	250
C	5	125

θ	R1	R2
95	45	49
100	50	48
105	55	47
110	60	46
115	65	45
*120	70	44

*Max. Angle of Intersection

GENERAL NOTES

Designs may be used interchangeably in combination or separately for any one complete intersection depending upon intersection angle and surfacing of each approach roadway.

Details on this drawing are for minimum design only, and not applicable to special conditions, as shown elsewhere on the plans.

SIDE ROAD SURFACING NOTE

If the side road is not presently paved, pavement shall be placed to the limits shown. In the case where the construction limits are beyond the paving limits, gravel or crushed stone surfacing shall be placed between the paving limits and construction limits.

If the side road is presently paved, new pavement shall be placed to the limits of design as shown and beyond, if necessary, to meet existing pavement.

If side road is the construction project, the intersection surfacing shall be the same as for the project.

New Pavement
 Existing Surface

LAYOUT DETAILS FOR AT-GRADE SIDE ROAD INTERSECTIONS

State Highway Commission of Wisconsin

RECOMMENDED FOR APPROVAL:

8/9/67

DATE

APPROVED:

8/9/67

DATE

E. J. Rydzek

CHIEF DESIGN ENGINEER

D. J. Burmeister

STATE HIGHWAY ENGINEER

Plate No. 91.1.5

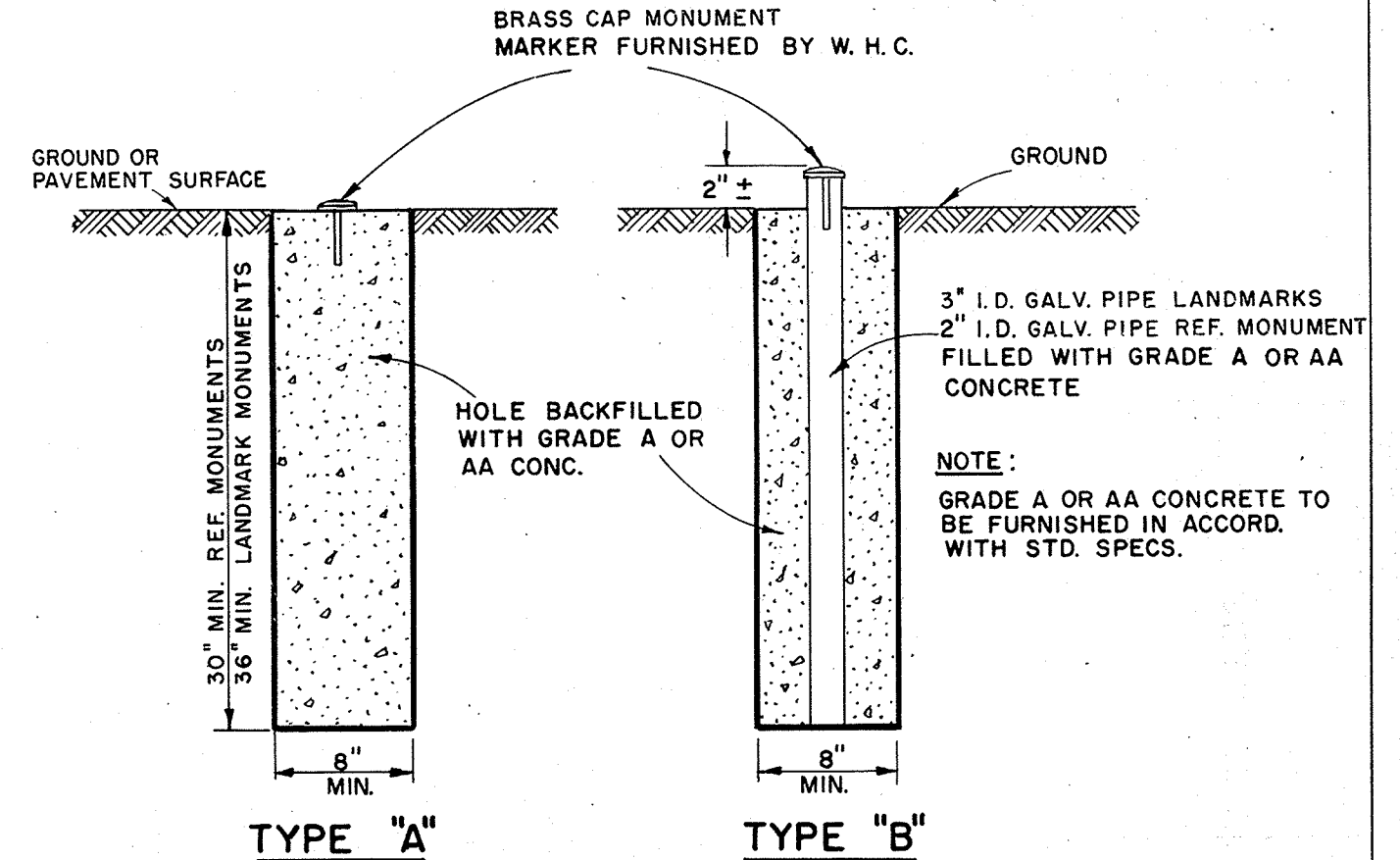
17.11-85

REF
E $\frac{1}{4}$ COR.
SEC + 35
T22N-R6W
69.7'N

T25N R17E
S23 S24
S26 S25
1961

REF
E $\frac{1}{4}$ COR.
+
S35T22NR6W
89.87'N

**BRASS
MONUMENT MARKER**
(FURNISHED TO CONTRACTOR
WITHOUT COST.)



GENERAL NOTES

MONUMENT CONSTRUCTION SHOWN HEREON CONFORMS TO WISCONSIN STATUTES, SECTIONS 59.635 AND 60.37. BRASS MONUMENT MARKER TO BE FURNISHED AND PROPERLY STAMPED BY WIS. HIGHWAY COMM. UNLESS OTHERWISE SPECIFIED IN THE CONTRACT. MONUMENTS CONFORMING TO EITHER TYPE A OR TYPE B AS SHOWN HEREON TO BE PLACED WHERE AND AS DIRECTED BY THE ENGINEER.

MEASUREMENT AND PAYMENT-

LANDMARK REFERENCE MONUMENTS SHALL BE MEASURED AND PAID FOR AS COMPLETED UNITS IN PLACE, WHICH PRICE SHALL INCLUDE FURNISHING AND PLACING OF CONCRETE, PIPE, EXCAVATION AND DISPOSITION THEREOF, PLACEMENT OF BRASS MARKER AND SITE RESTORATION.

LANDMARK REFERENCE MONUMENTS

STATE HIGHWAY COMMISSION OF WISCONSIN
RECOMMENDED FOR APPROVAL:

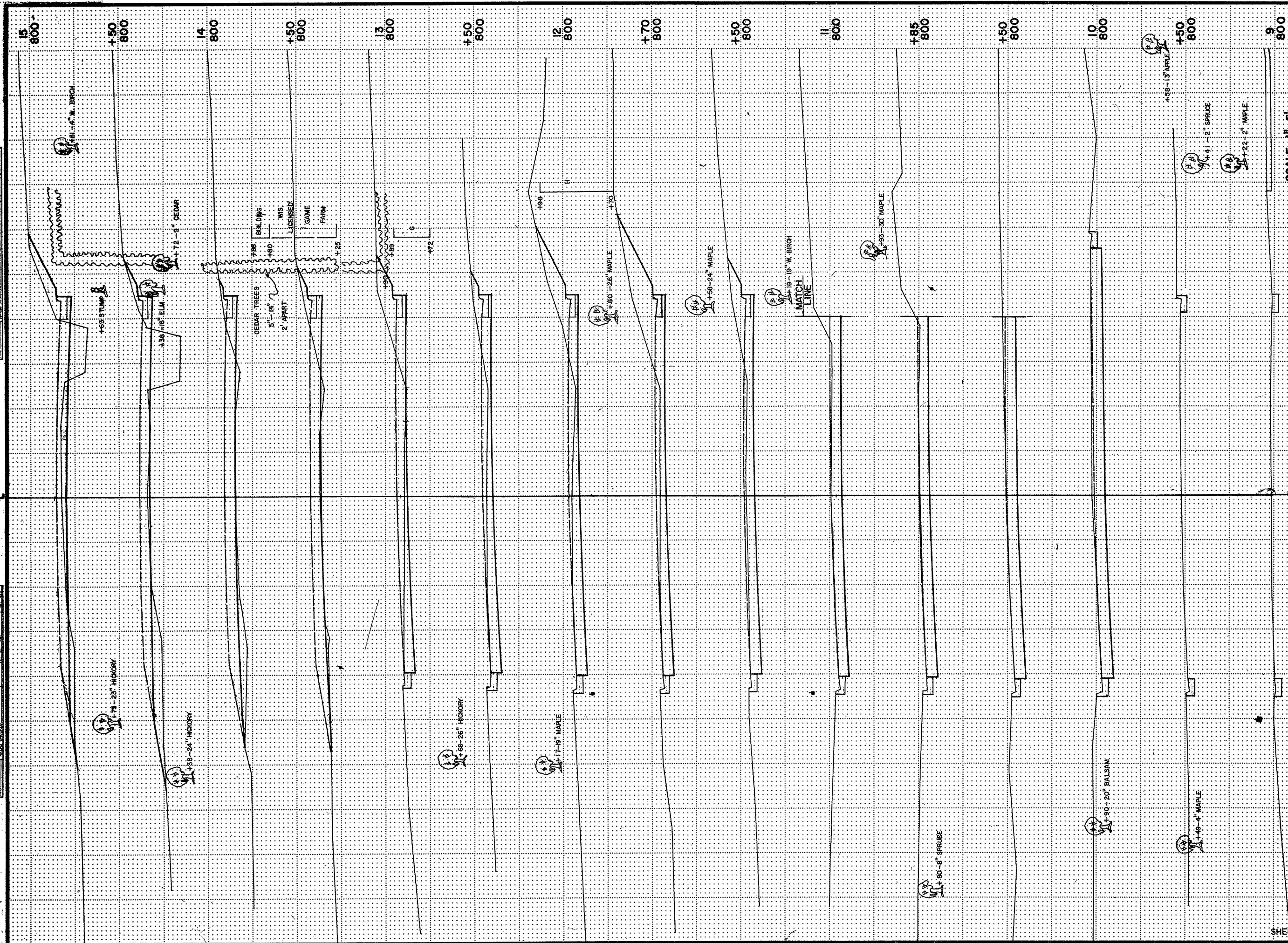
2-5-63
DATE
APPROVED:

J. S. Pelt
ENGINEER OF DESIGN

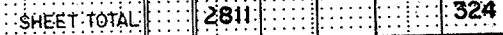
7/6/63
DATE

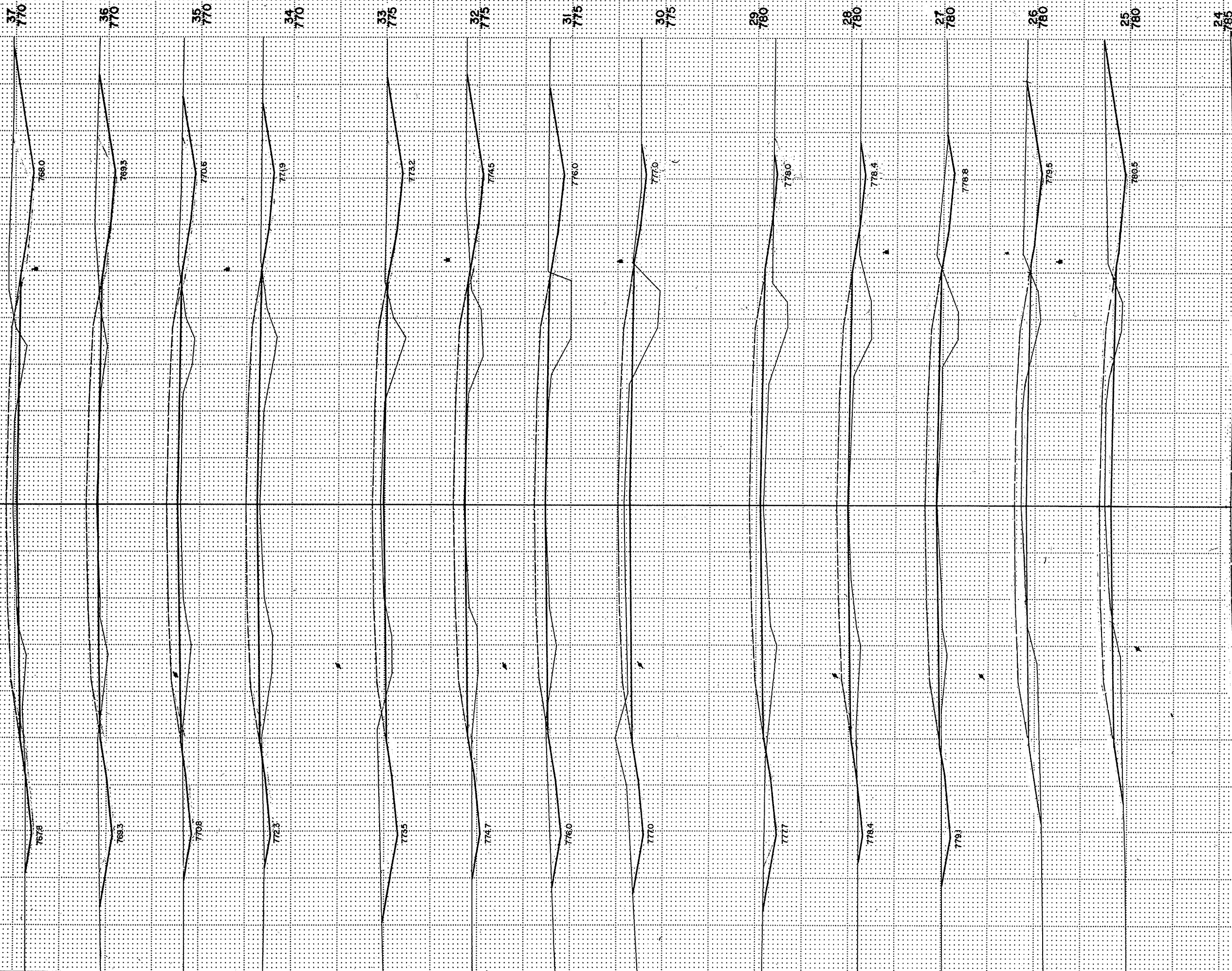
E. C. Rottman
STATE HIGHWAY ENGINEER 12-1.1.2

D.R. REGION	PROJECT	SHEET NUMBER	TOTAL SHEETS
DIVISION	90395(13)	17	85
WIS			



STATION	DISTANCE	YARDAGE			
		EXCAVATION			FILL
		UNCL.			
+50		52			0
10		107			0
+50		63			0
+85		24			0
11		87			0
+50		43			0
+70		65			0
12		85			0
+50		72			0
13		43			0
+50		17			15
14		15			44
+50		26			48
15					
SHEET TOTAL		708			107

[illegible]



B.P.R. REGION		PROJECT	SHEET NUMBER	TOTAL SHEETS
4 WIS.		S D395(1)	49	85
STATION	DISTANCE	YARDAGE		
		EXCAVATION		FILL
		UNCL.		
23		315		9
24		211		39
25		154		70
26		98		91
27		44		122
28		35		167
29		109		136
30		143		96
31		109		109
32		150		88
33		133		100
34		78		124
35		122		70
36		183		33
37				
SHEET TOTAL		1834		1248

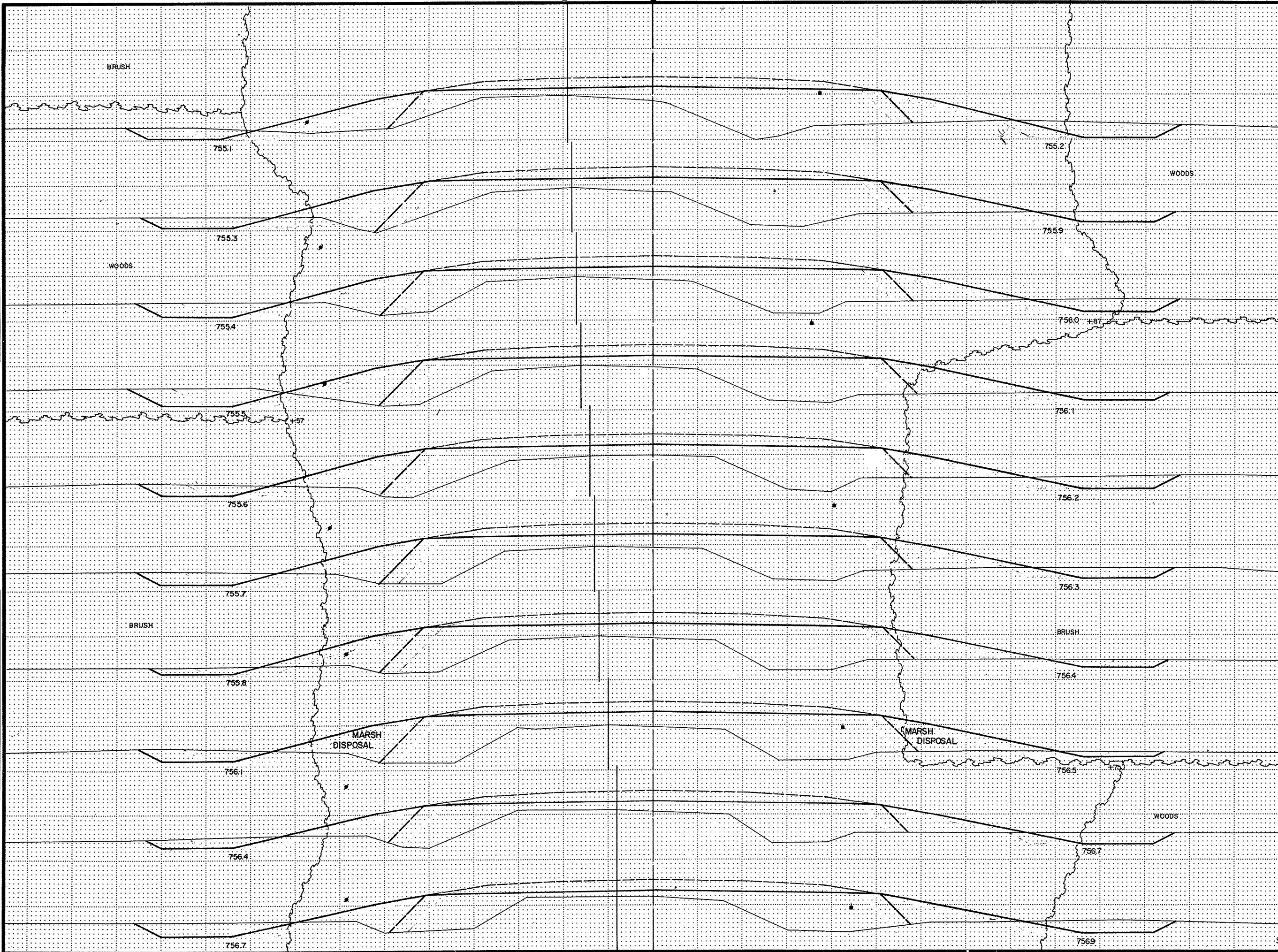
STATION	DISTANCE	YARDAGE		
		EXCAVATION		FILL
		UNCL.	MARSH	
37				
		102		39
38				
		24		32
+45				
		4		217
39				
		0		141
+20				
		35	941	1,385
40				
		85	2,252	2,600
41				
		69	2,263	2,515
42				
TOTAL		319	5,456	6,930

[illegible]

NOTE BOOK TEMPLATE
NO. 727

NOTE BOOK TEMPLATE
NO. 727

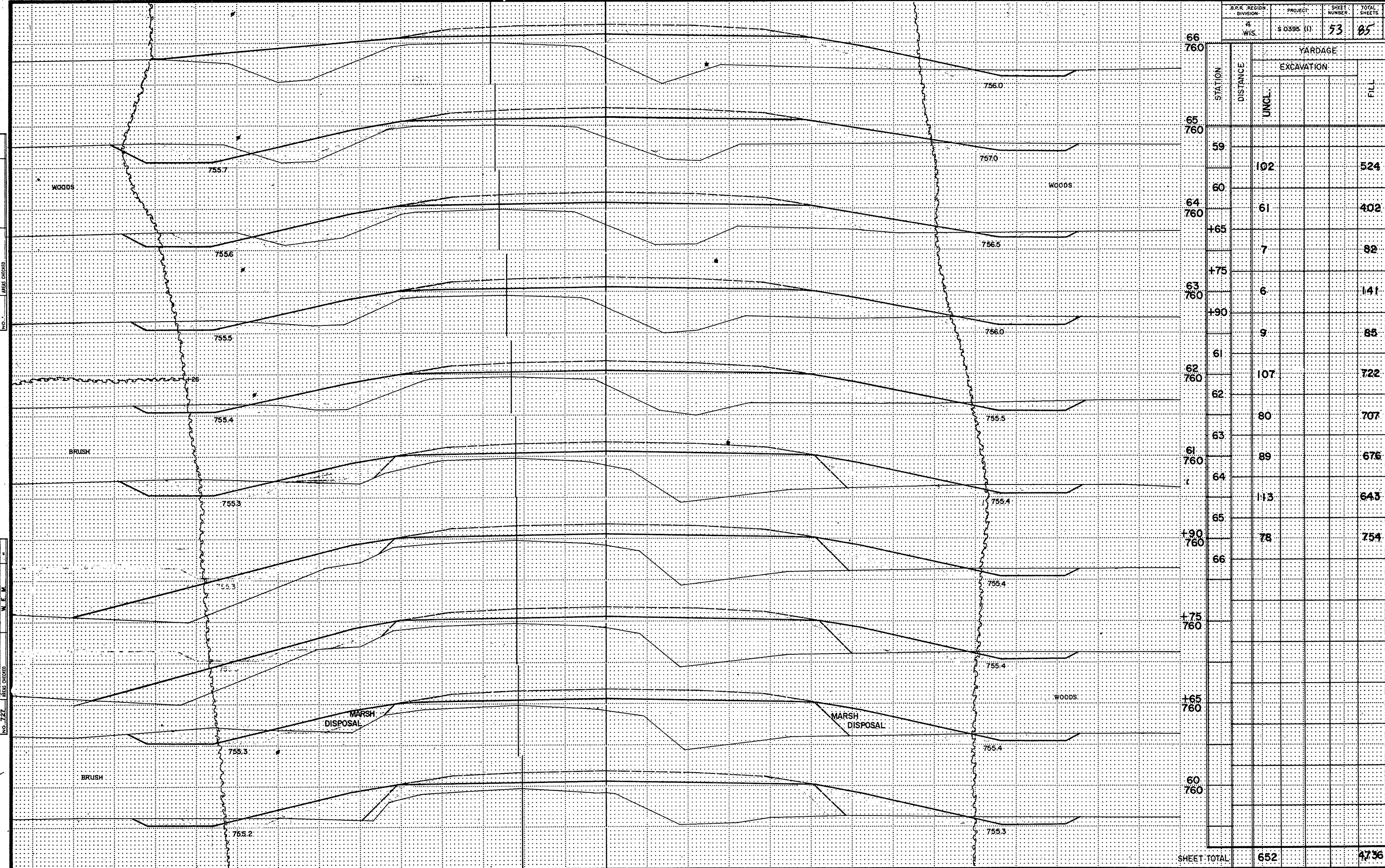
HOSTAR & N. 3143 ST. PAUL, MINNEAPOLIS, MINNESOTA



S.P.R. REGION	PROJECT	SHEET	TOTAL
DIVISION		NUMBER	SHEETS
4	9.0335(11)	52	85
WIS.			

STATION	DISTANCE	YARDAGE			
		EXCAVATION			FILL
		UNCL.			
59 760					
49					
58 760		124			480
50					
51		120			483
57 760		89			569
52					
53		67			628
56 760		88			606
54					
55		120			574
55 760		128			564
56					
57		132			556
54 760		117			570
58					
59		113			661
53 760					
52 760					
51 760					
50 760					
SHEET TOTAL		1,095			5,581

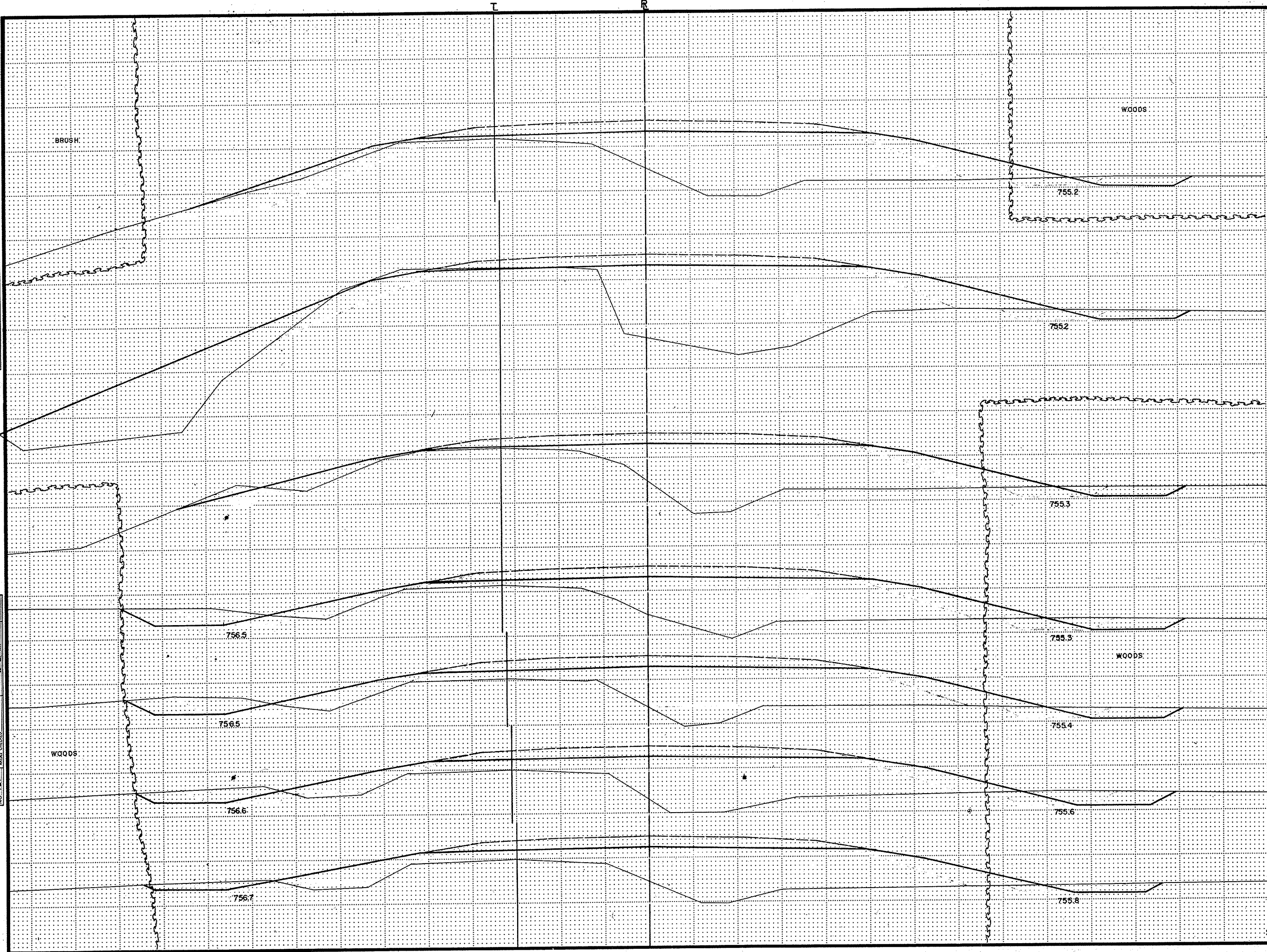
D.P.R. REGION DIVISION	PROJECT	SHEET NUMBER	TOTAL SHEETS
4 WIS.	S 0395 (1)	53	85



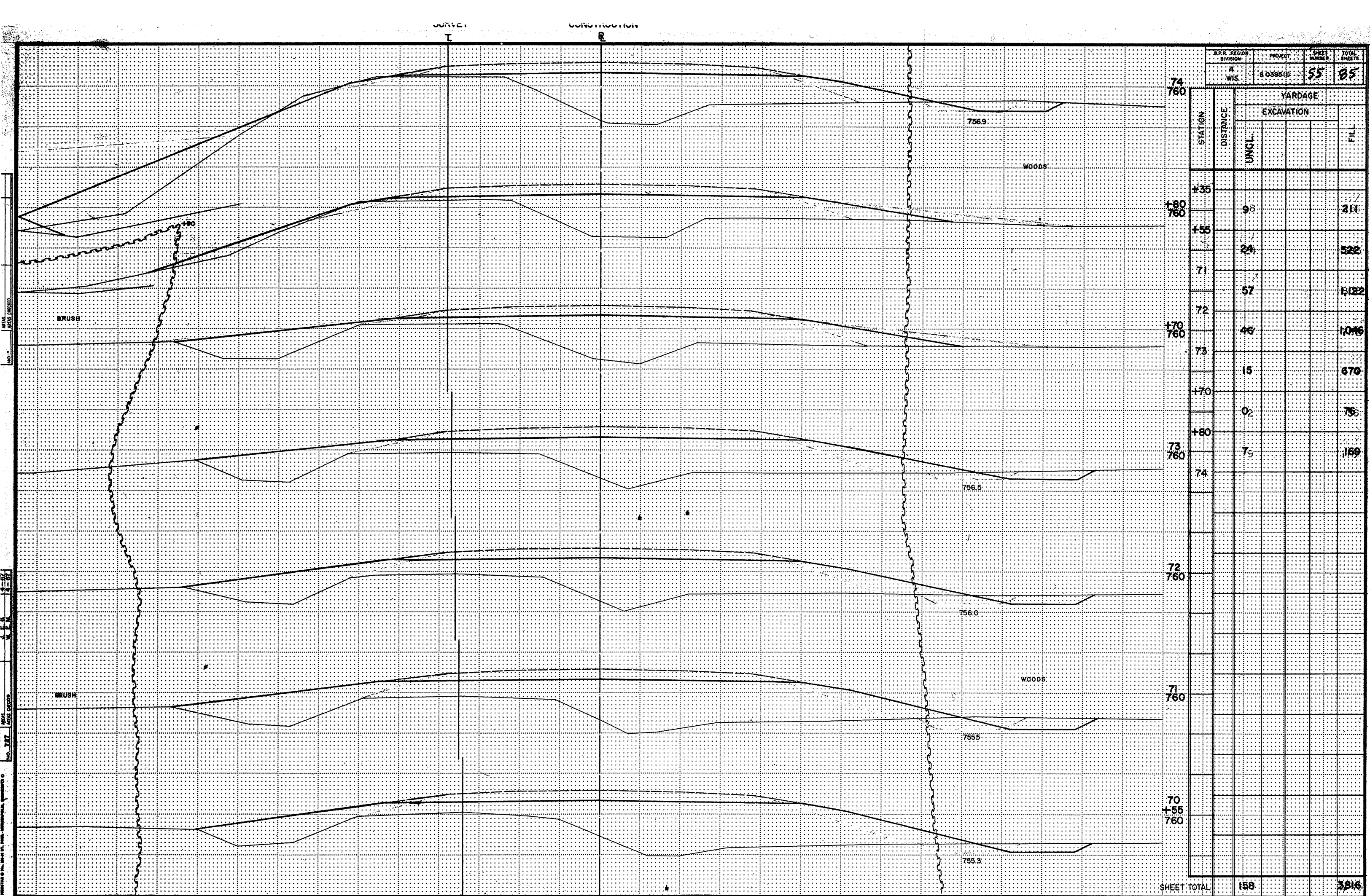
NOTE BOOK TEMPLATE
NO. 727 AREAS CHECKED

NOTE BOOK TEMPLATE
NO. 727 AREAS CHECKED

NOTEBOOK NO. 1034 ST. PAUL, MINNEAPOLIS, MINNESOTA



S.P.R. REGION		PROJECT		SHEET		TOTAL	
DIVISION				NUMBER		SHEETS	
4		S 0395 (1)		51		85	
WIS.							
STATION	DISTANCE	YARDAGE					
		EXCAVATION				FILL	
		UNCL.					
66							
	46						879
67							
	106						885
68							
	159						870
69							
	70						385
445							
	19						176
65							
	6						91
484							
	9						194
70 +35							



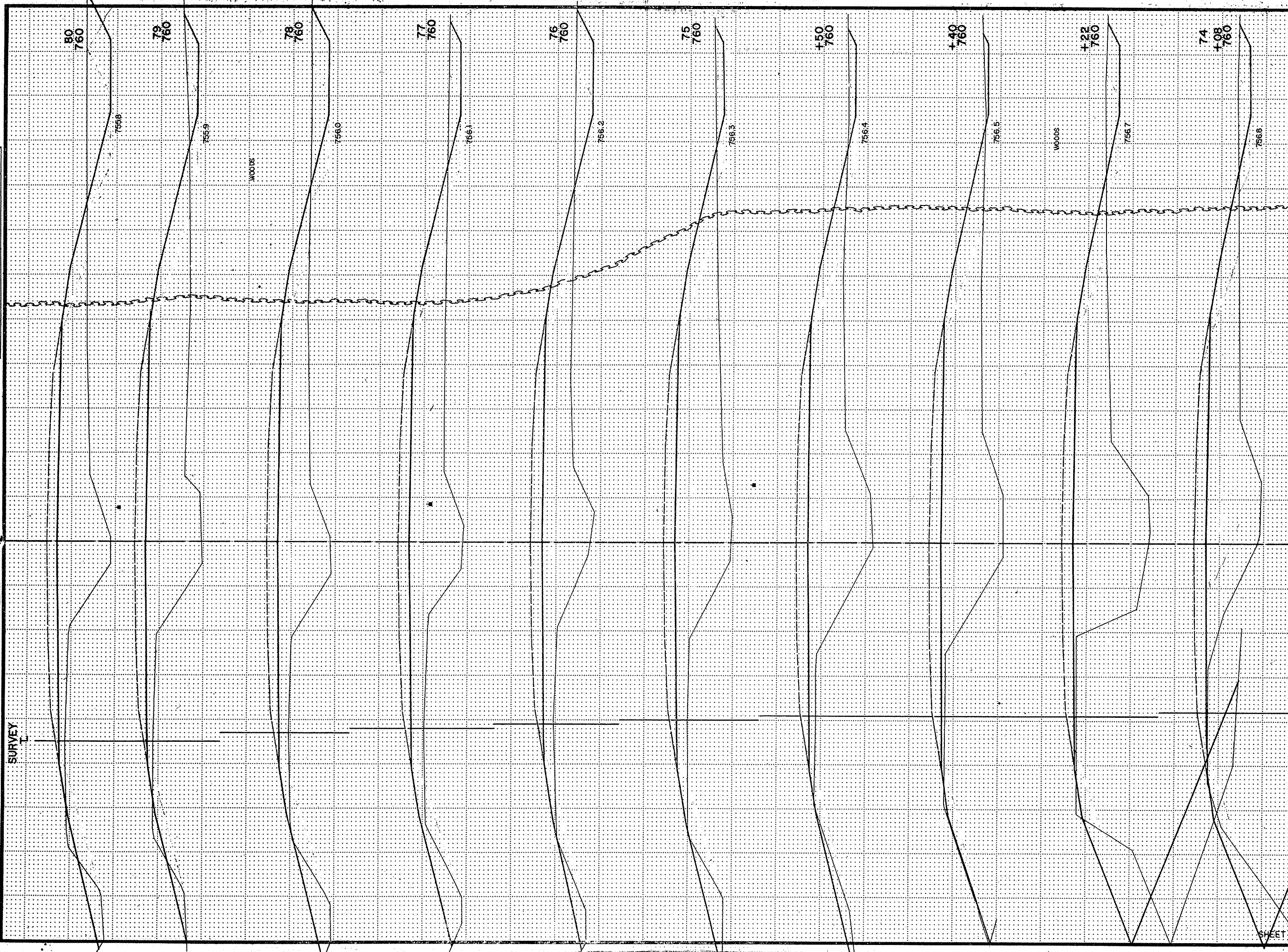
R.R. AREA DIVISION		PROJECT		SHEET NUMBER		TOTAL SHEETS	
R WIS.		8 000000		55		05	
STATION	DISTANCE	YARDAGE				FILL	
		EXCAVATION					
		UNCL.					
74							
73							
72							
71							
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6							
5							
4							
3							
2							
1							
TOTAL		158				3816	

NO. 727
AREAS
CHECKED

NO. 727
AREAS
CHECKED

NO. 727
AREAS
CHECKED

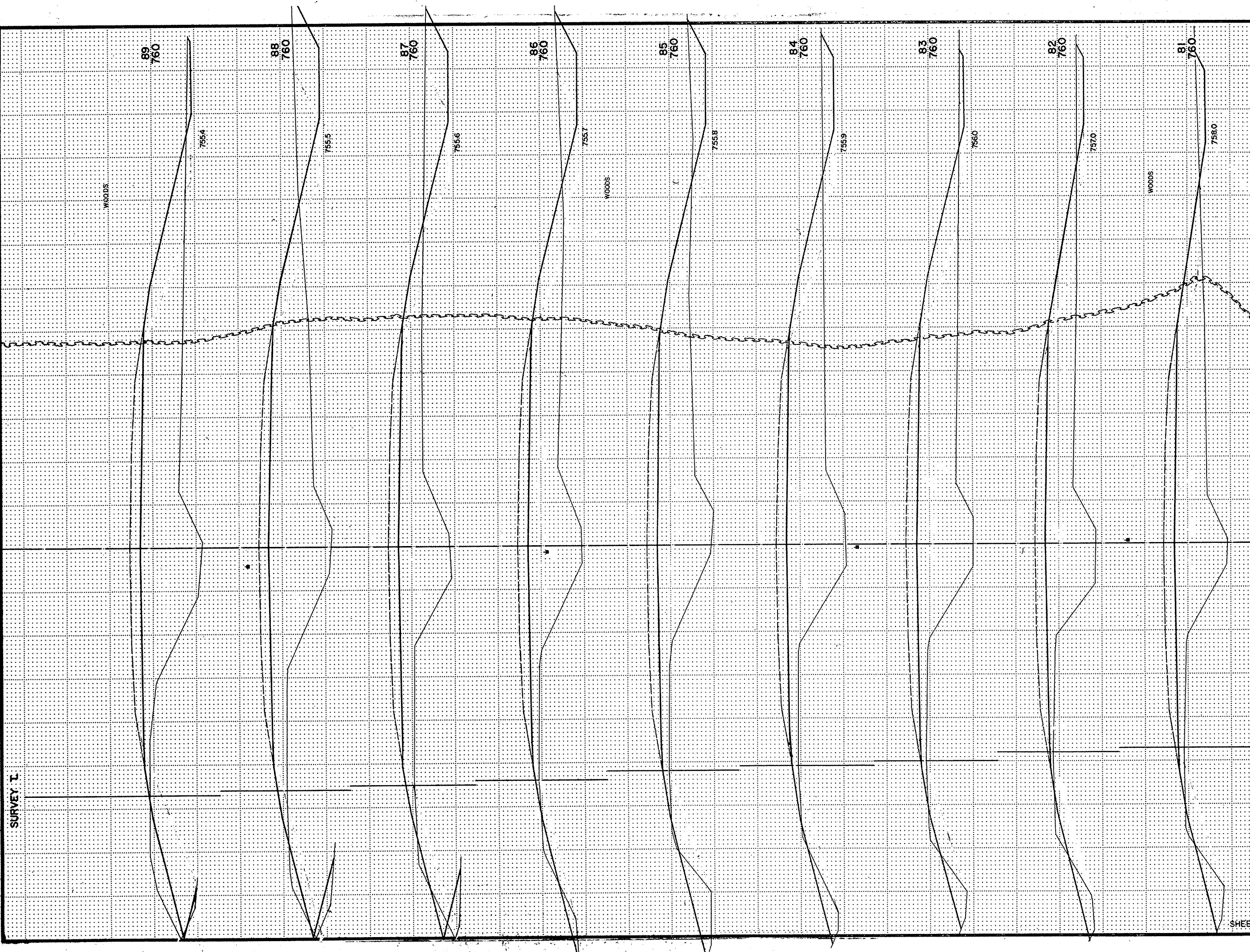
SURVEY



S.P.R. REGION		PROJECT	SHEET NUMBER	TOTAL SHEETS
DIVISION		5-0595 (1)	56	85
4		WIS		

STATION	DISTANCE	YARDAGE			
		EXCAVATION			FILL
		UNCL			
74					
	6				87
+08					
	9				180
+22					
	11				208
+40					
	4				89
+50					
	17				463
75					
	69				826
76					
	82				780
77					
	80				811
78					
	83				811
79					
	115				770
80					
SHEET TOTAL		476			5025

NO. 727
SHEET 57
DIVISION 4
PROJECT 6-0395 (A)
SHEET NUMBER 57
TOTAL SHEETS 85
NO. 727
SHEET 57
DIVISION 4
PROJECT 6-0395 (A)
SHEET NUMBER 57
TOTAL SHEETS 85
NO. 727
SHEET 57
DIVISION 4
PROJECT 6-0395 (A)
SHEET NUMBER 57
TOTAL SHEETS 85



STATION	DISTANCE	YARDAGE			
		EXCAVATION			FILL
		UNCL			
80		56			419
81		46			706
82		39			789
83		48			879
84		72			854
85		93			787
86		139			715
87		180			830
88		117			635
89					
SHEET TOTAL		790			6614

SURVEY: T

[illegible]

NO. 327
AREAS CHECKED
DATE
BY

ST. E. B.

SURVEY

WOODS & BRUSH

WOODS & BRUSH

WOODS

156-12' MAPLE

NOT IN B-55-56-57

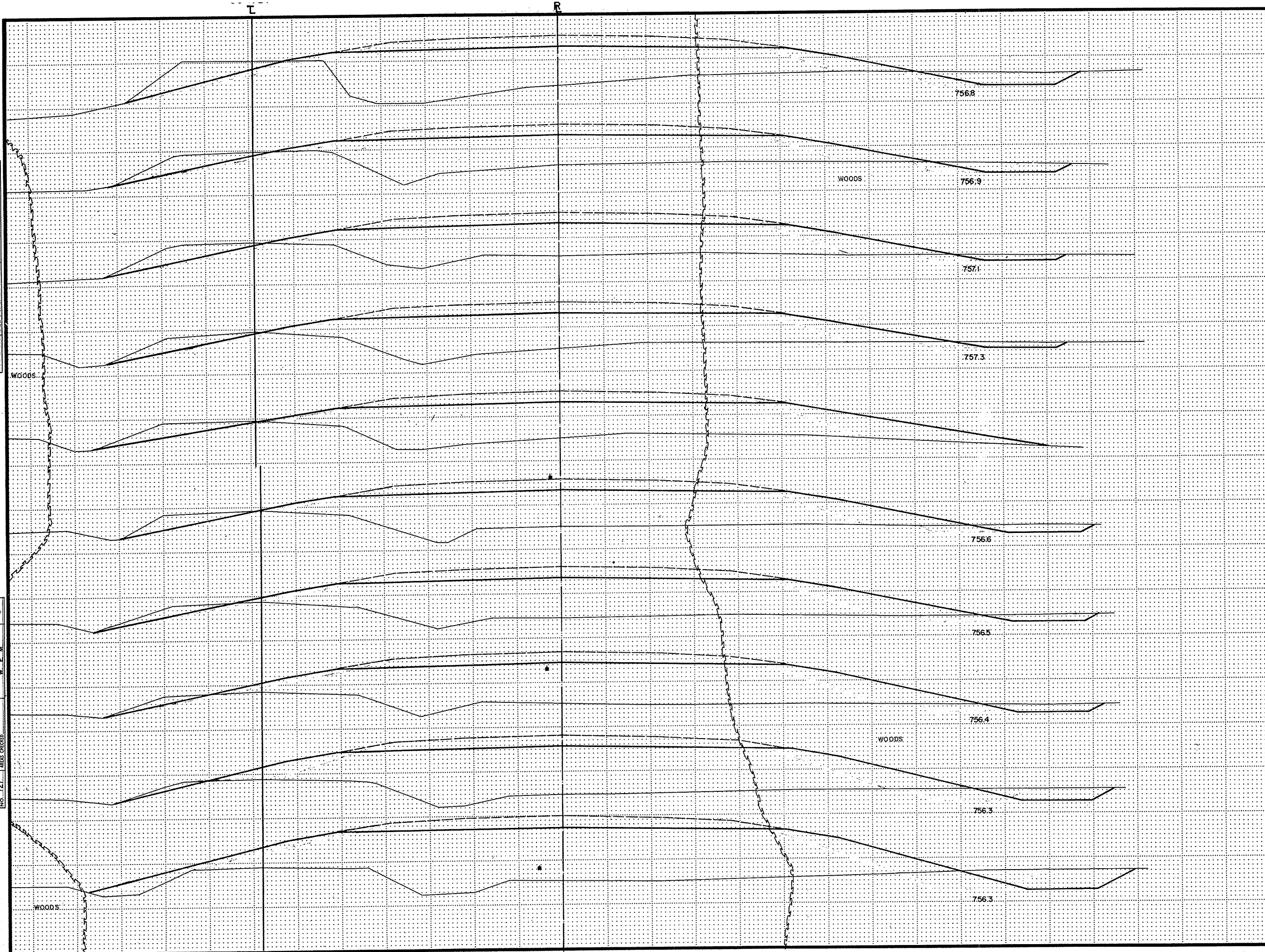
D.P.C. REGION DIVISION	PROJECT NUMBER	SHEET NUMBER	TOTAL SHEETS
4 WIS.	S 0395 (1)	59	85

STATION	DISTANCE	YARDAGE			
		EXCAVATION			FILL
		UNCL			
96		52			1,854
97		17			891
+50		2			306
99		0			156
+37		0			
+50		11			1,030
100		39			2,124
101		37			2,228
102		54			1,980
103					
SHEET TOTAL		212			10,569

NO. 727
AREA CHECKED
NO.

NO. 727
AREA CHECKED
NO.

NO. 727
AREA CHECKED
NO.



S.P.R. REGION	PROJECT	SHEET NUMBER	TOTAL SHEETS
4	S-0395 (1)	60	85
WIS.			

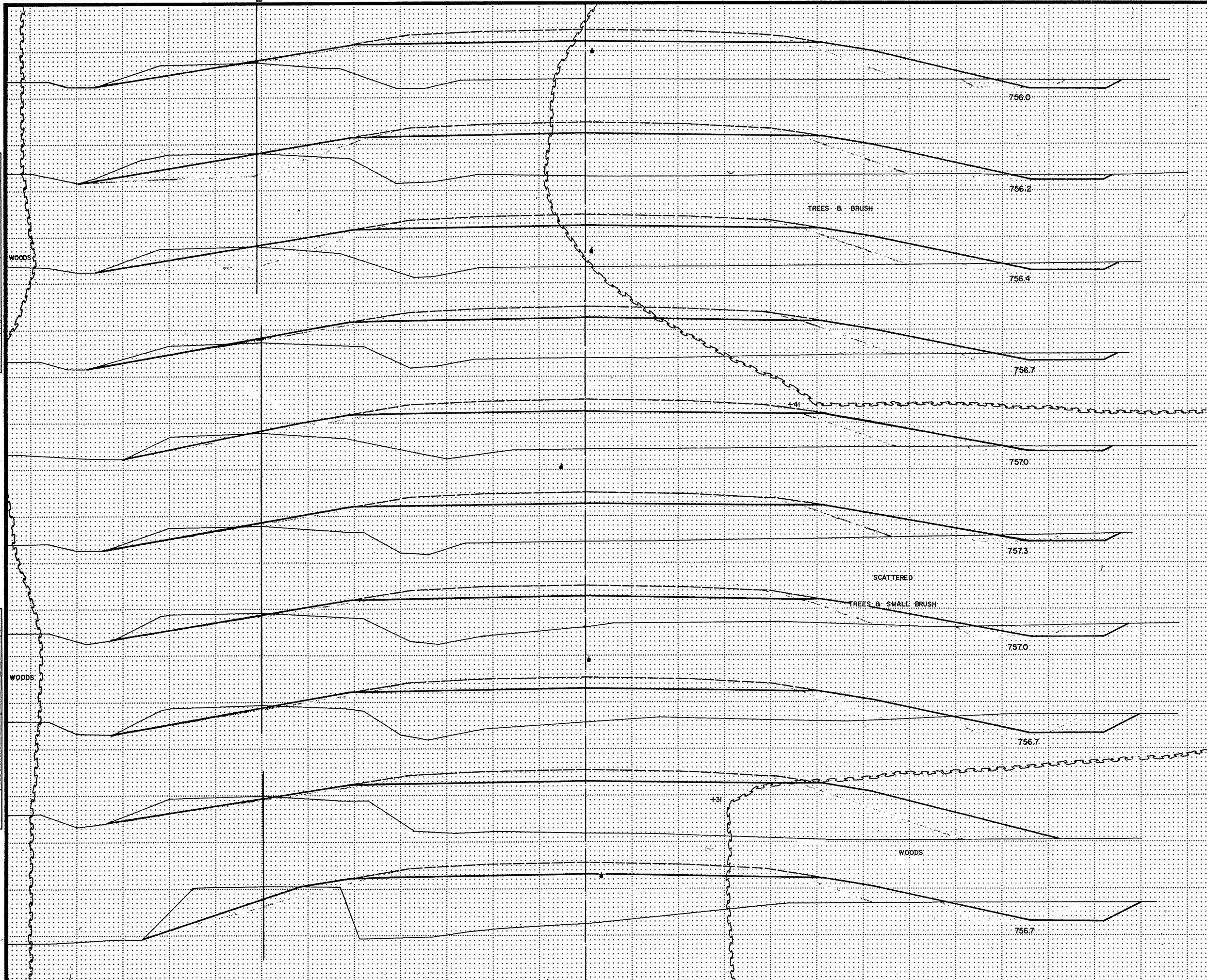
STATION	DISTANCE	YARDAGE		
		EXCAVATION		FILL
		UNCL.		
+22 760				
110 760	103	91		1,681
	104			
+67 760	105	93		1,385
	106	63		1,170
+30 760	107	56		1,050
	108	69		970
109 760	109	67		937
	110	9		267
+30 760	108	33		302
+67 760	107	33		256
110 760	106	32		183
+22 760	105			
106 760	104			
105 760				
104 760				
SHEET TOTAL		546		8,201

SURVEY
T

CONSTRUCTION
R

10

S.P.R. REGION DIVISION	PROJECT	SHEET NUMBER	TOTAL SHEETS
4 WIS.	S 0395 (1)	61	85



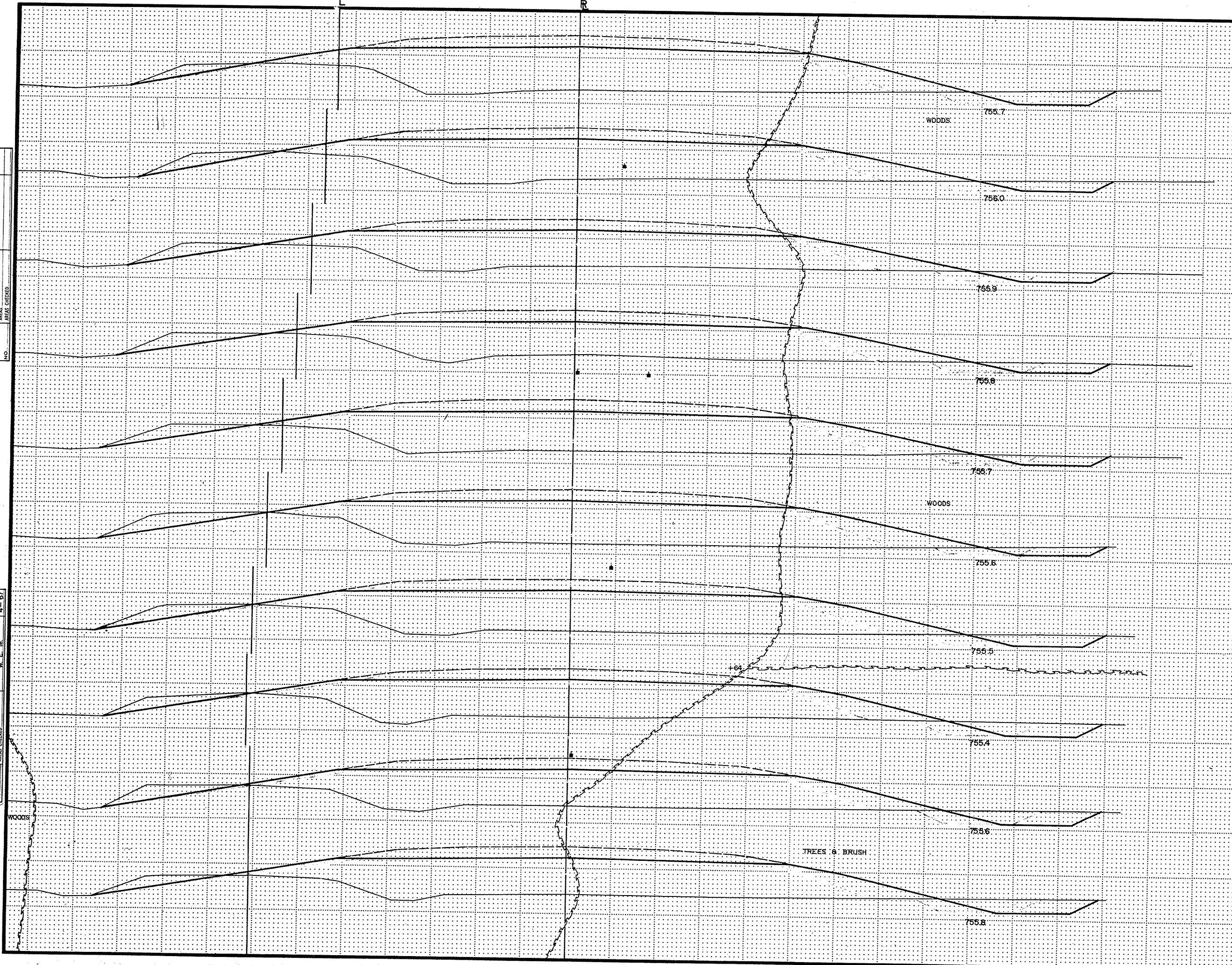
STATION	DISTANCE	YARDAGE			
		EXCAVATION			FILL
		UNCL.			
119+755					
118+755	+22	0			0
	+36				
117+755		17			391
116+755		111			1041
115+755		139			754
114+755		83			850
113+755		52			931
112+755		54			946
111+755		63			996
110+755		72			1031
109+755		74			998
108+755					
107+755					
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8+760					
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6+760					
5+760					
4+760					
3+760					
2+760					
1+760					
0+760					
SHEET TOTAL		665			7,918

CURVE L
CONSTRUCTION R

NOTE BOOK
NO. 727
THIRTEEN
AREAS CHECKED

NOTE BOOK
NO. 727
THIRTEEN
AREAS CHECKED

HOUSTON & NO. 22ND ST. PAUL, MINNESOTA
NO. 727
THIRTEEN
AREAS CHECKED



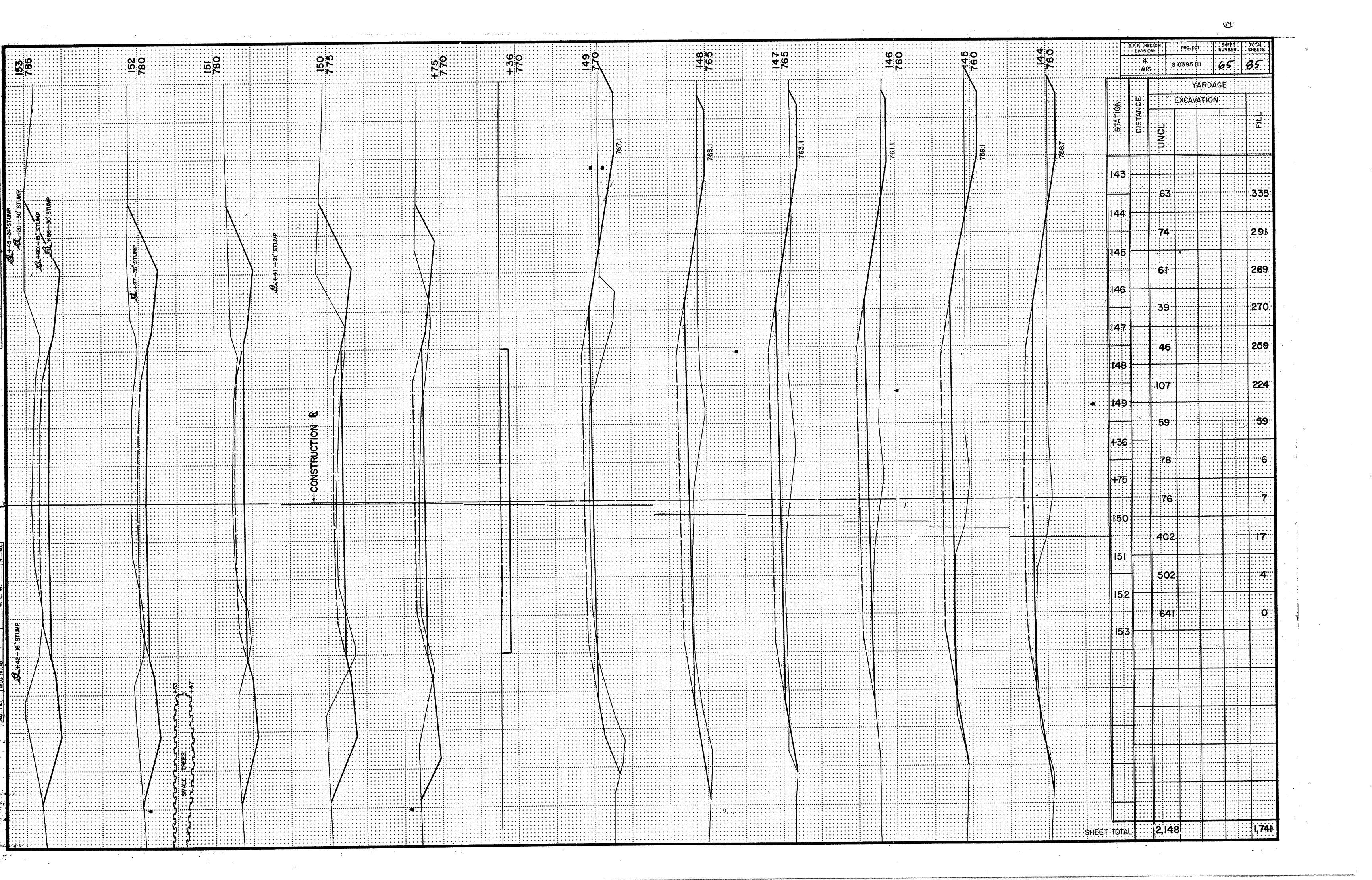
B.R.R. REGION DIVISION		PROJECT		SHEET NUMBER		TOTAL SHEETS	
4 WIS.		SD396 (1)		62		85	
129 760	STATION	DISTANCE	YARDAGE				FILL
			EXCAVATION				
			UNCL.				
128 760							
	119						
		91					935
127 760	120						
		115					913
	121						
		110					915
	122						
126 760		102					959
	123						
		98					1,026
	124						
		93					1,001
	125						
125 755		91					896
	126						
		89					852
	127						
124 755		91					898
	128						
		96					976
	129						
123 755							
122 755							
121 755							
120 755							
SHEET TOTAL		977				9,371	

人

TOTAL SHEETS	85
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STATION	DISTANCE	YARDAGE				
		UNCL	EXCAVATION			FILL
-129						
		76			1,054	
+130						
		63			1,078	
+131						
		59			498	
+145						
		57			343	
+165						
		4			69	
+132						
		50			1,226	
+133						
		19			1,148	
+134						
		2			938	
+178						



B.P.R. REGION	PROJECT	SHEET NUMBER	TOTAL SHEETS
DIVISION			
4	S 03395 (1)	65	85
WIS			

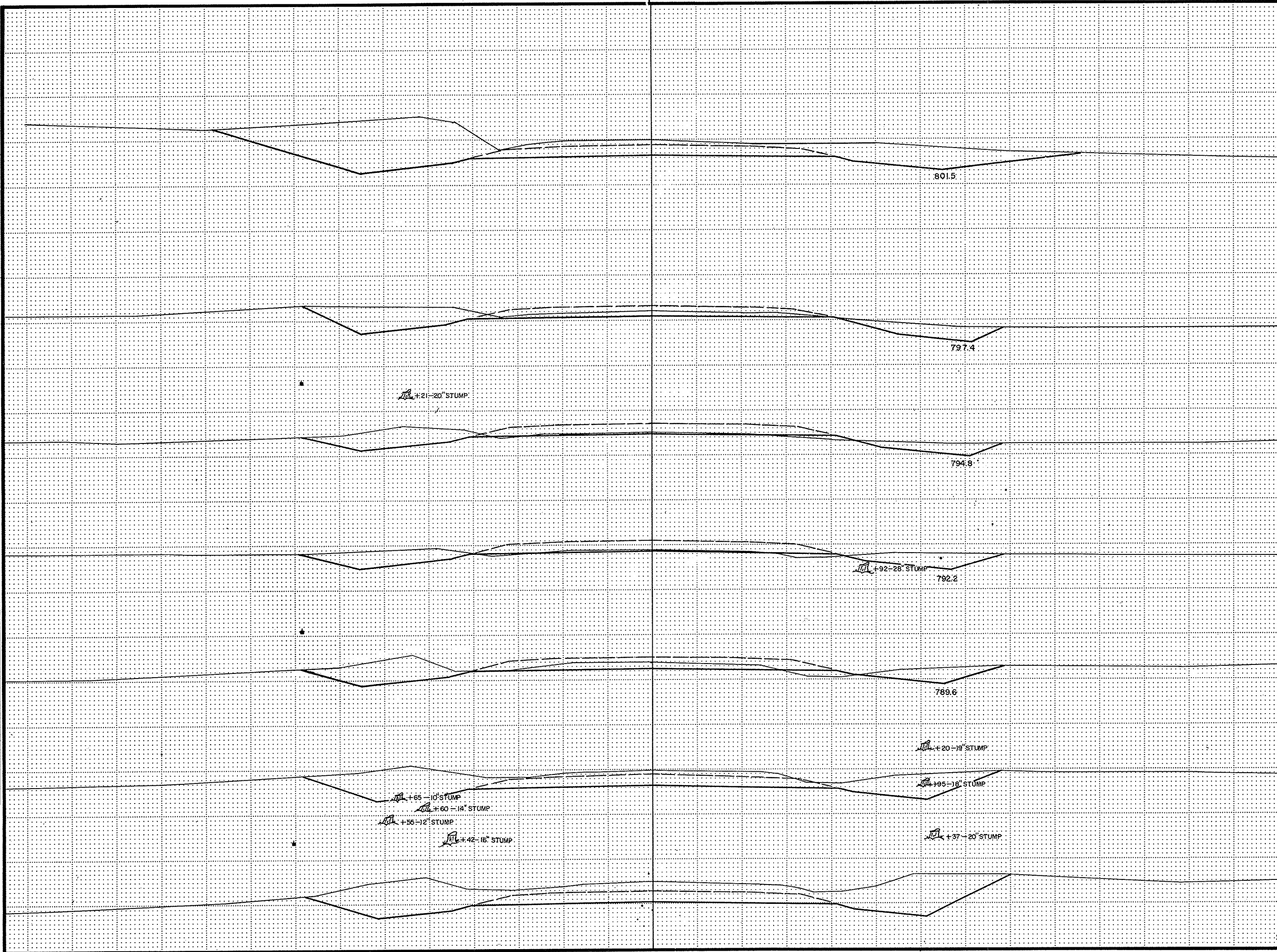
STATION	DISTANCE	YARDAGE		
		EXCAVATION		FILL
		UNCL		
143		63		338
144		74		291
145		61		269
146		39		270
147		46		259
148		107		224
149		59		59
+36		78		6
+75		76		7
150		402		17
151		502		4
152		641		0
153				
SHEET TOTAL		2,148		1,741

S.P.R. REGION	PROJECT	SHEET NUMBER	TOTAL SHEETS
DIVISION			
4	S 0395 (1)	66	85
WIS.			

NO. 727 AREAS CHECKED

NO. 727 AREAS CHECKED

NO. 727 AREAS CHECKED



STATION	DISTANCE	YARDAGE			
		EXCAVATION			FILL
		UNCL.			
160					
805					
153		713			0
154		615			0
155		376			7
156		211			13
157		180			9
158		237			4
159		569			0
160					
157					
795					
156					
790					
155					
790					
154					
790					
SHEET TOTAL		2,901			33

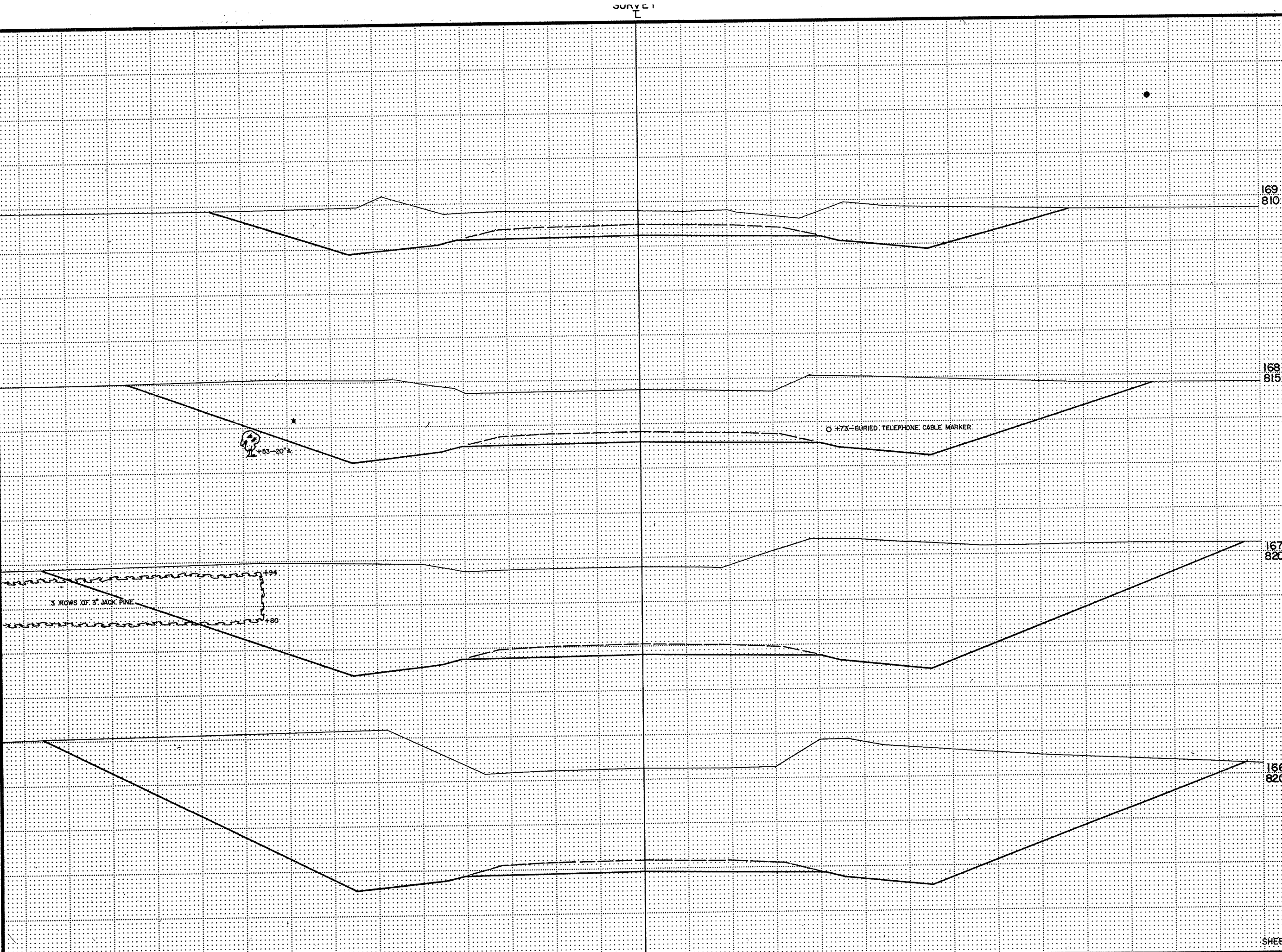
B.R.R. REGION DIVISION	PROJECT	SHEET NUMBER	TOTAL SHEETS
A WIS	S 0395 (11)	67	85

STATION	DISTANCE	YARDAGE			
		EXCAVATION			FILL
		UNCL.			
165 815					
160		1,378			0
161		2,352			0
162		3,088			0
163		3,458			0
164 815		4,016			0
165					
163 815					
162 810					
161 810					
SHEET TOTAL		14,292			0

BRUSH

B.P.R. REGION	PROJECT	SHEET NUMBER	TOTAL SHEETS
4	S 0395 (1)	68	85
WIS.			

STATION	DISTANCE	YARDAGE			
		EXCAVATION			FILL
		UNCL			
169	810	4,970			0
166		5,064			0
167		3,968			0
168		1,852			0
169					
168	815				
167	820				
166	820				
SHEET TOTAL		15,854			0

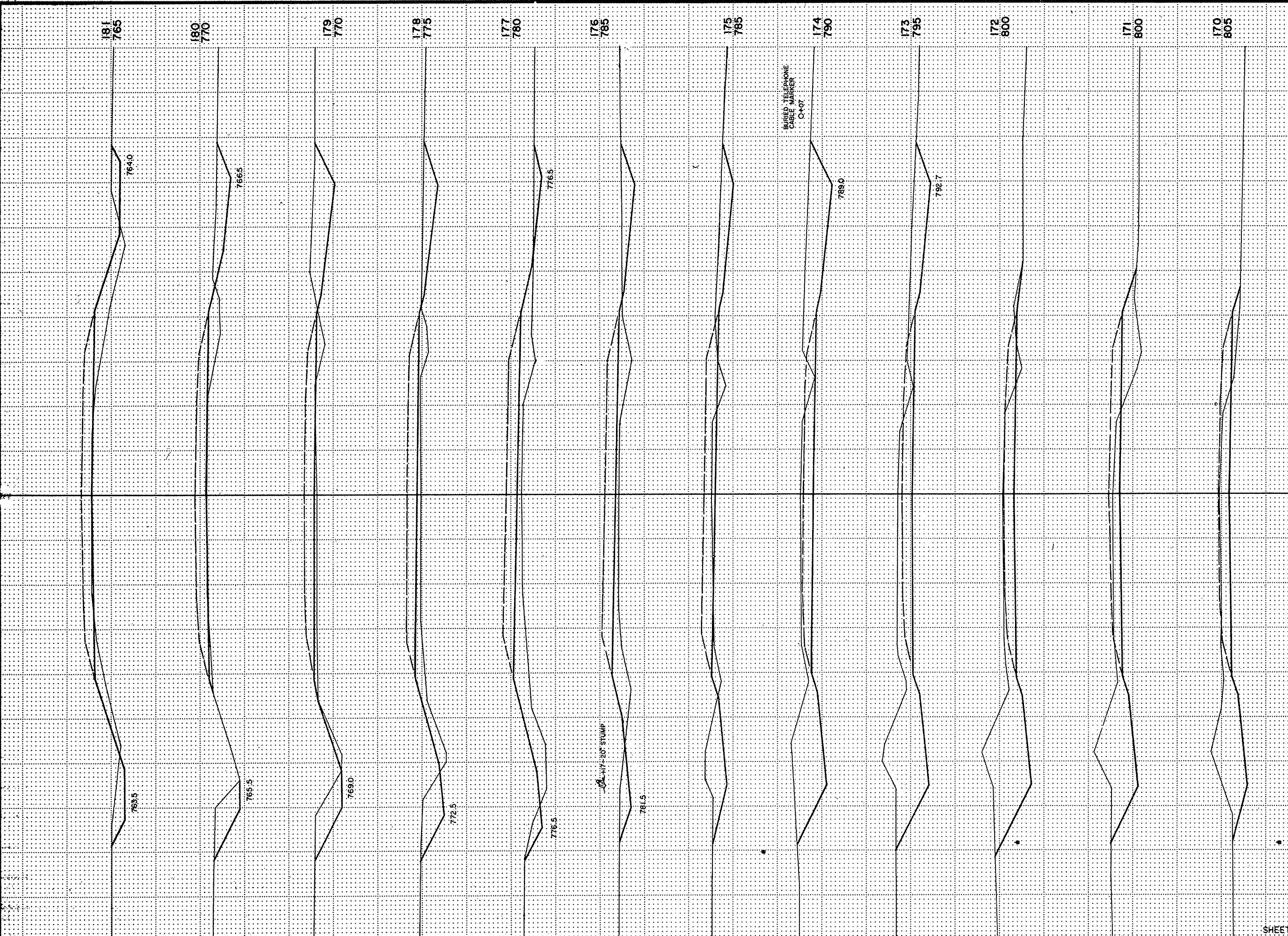


NOTE BOOK TEMPLATE
NO. 727
AREAS CHECKED

NOTE BOOK TEMPLATE
NO. 727
AREAS CHECKED

NOTES: 1. 10-10-10 ST. PAUL-MINNEAPOLIS, MINNESOTA 0

S.P.R. REGION	PROJECT	SHEET NUMBER	TOTAL SHEETS
DIVISION			
4	S 0885-111	69	85
WIS.			



STATION	DISTANCE	YARDAGE			
		EXCAVATION			FILL
		UNCL.			
169					9
170		717			46
171		263			39
172		319			2
173		444			0
174		507			9
175		343			76
176		130			178
177		56			170
178		74			80
179		139			41
180		135			72
181		63			
SHEET TOTAL		3210			722

NOTE BOOK TEMPLATE
NO. 727
AREAS CHECKED

SURVEY

D. E. L.
J. E. R.
W. E. M.

NOTE BOOK
NO. 727
AREAS CHECKED

REGISTERED PROFESSIONAL ENGINEER
MINNESOTA
NO. 3528 ST. PAUL, MINNESOTA

192
765

191
765

190
765

+51
765

+27
765

189
765

188
765

187
765

186
765

185
765

184
765

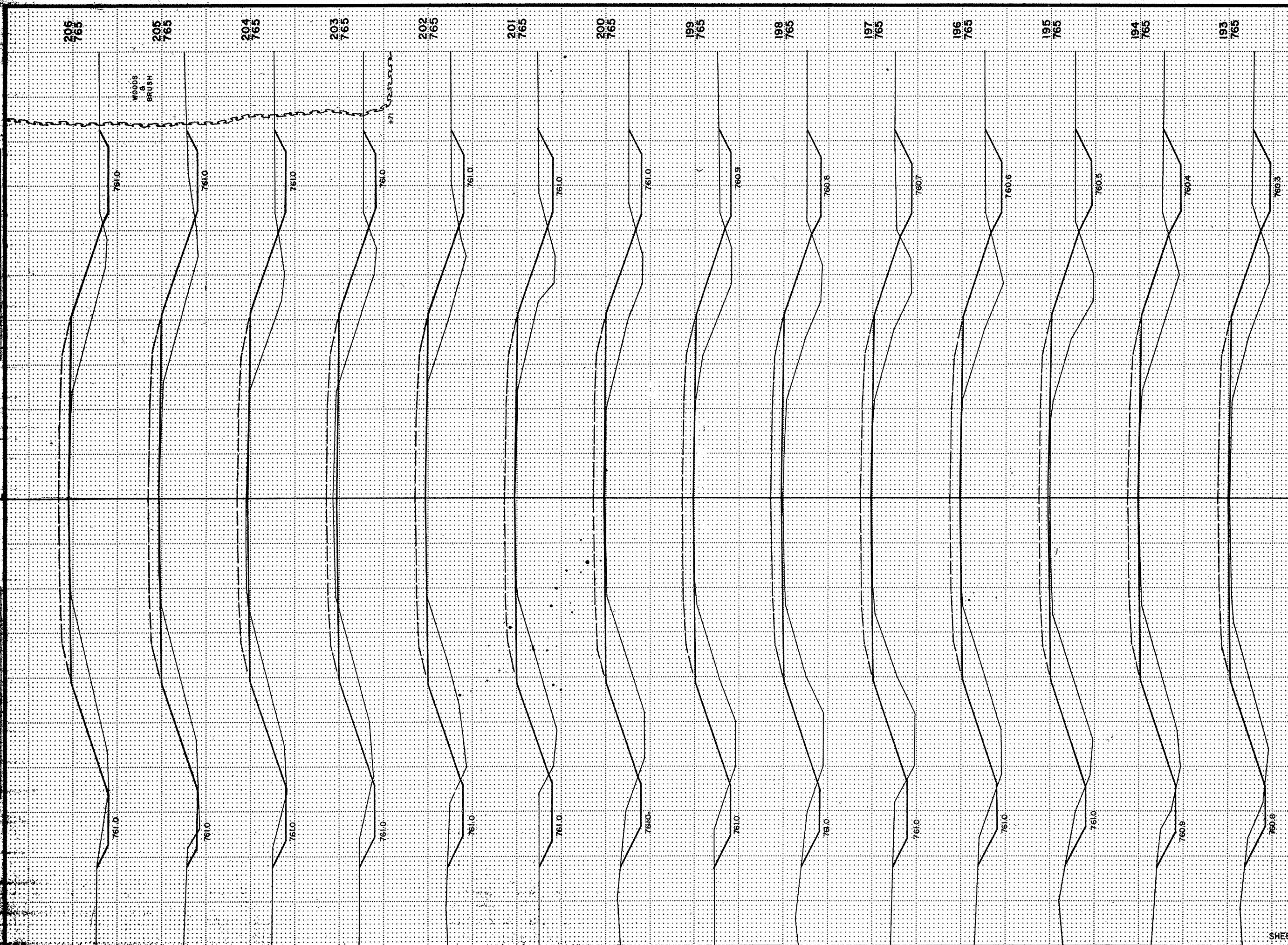
183
765

182
765

B.R.R. REGION	PROJECT	SHEET NUMBER	TOTAL SHEETS
4	S 13385 (1)	70	85

STATION	DISTANCE	YARDAGE			
		EXCAVATION			FILL
		UNCL			
181		67			167
182		65			208
183		57			174
184		59			187
185		69			224
186		87			243
187		87			246
188		105			208
189		35			59
+27		13			19
+51		65			118
190		94			256
191		95			257
192					

SHEET TOTAL 898 2366



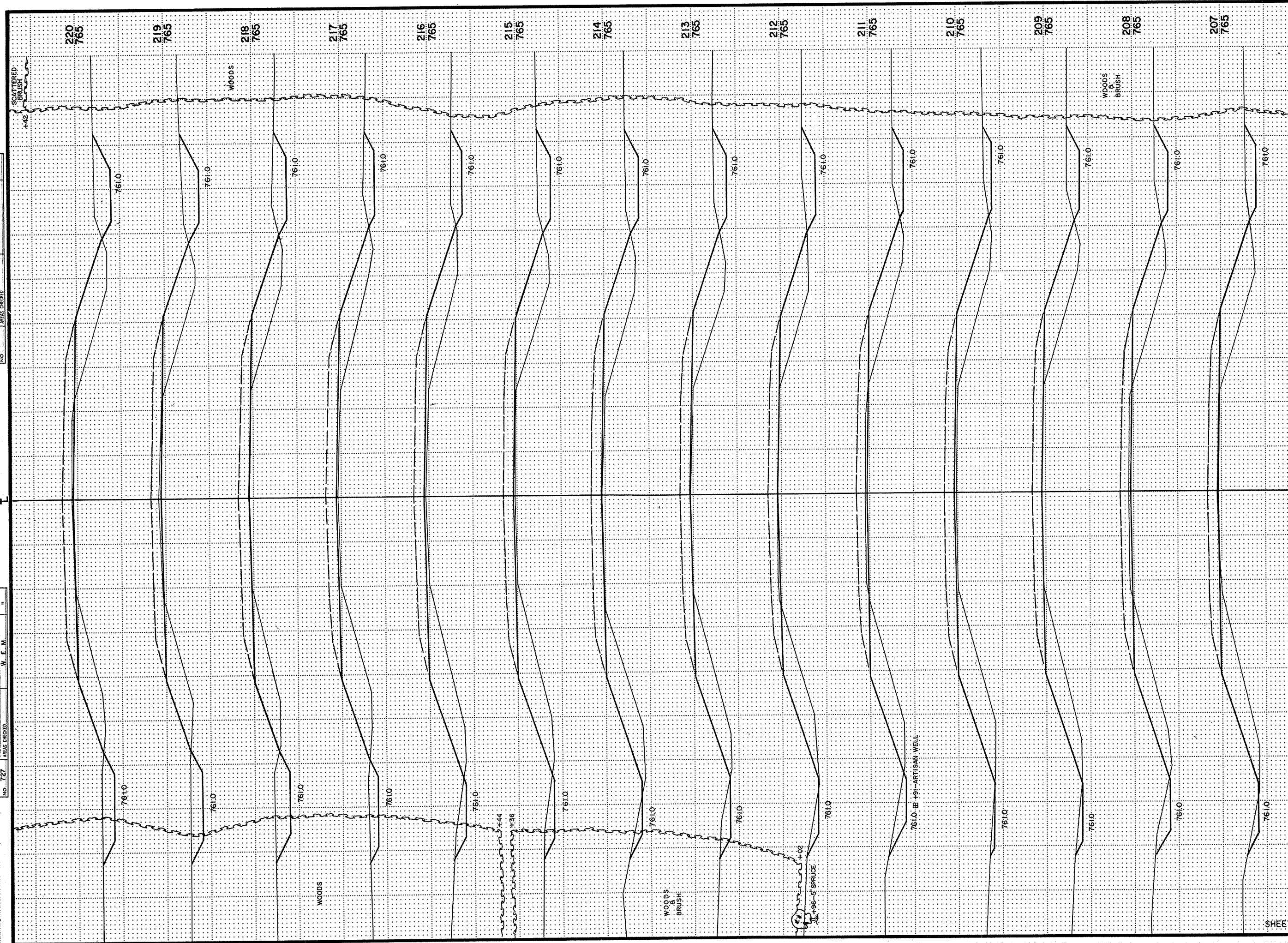
B.P.R. REGION DIVISION		PROJECT		SHEET NUMBER	TOTAL SHEETS
4 WIS.		S 0395(1)		71	85
STATION	DISTANCE	YARDAGE			
		EXCAVATION			FILL
		UNCL			
192					
		87			257
193					
		89			254
194					
		93			261
195					
		92			269
196					
		100			278
197					
		98			293
198					
		63			283
199					
		84			283
200					
		89			283
201					
		87			263
202					
		87			239
203					
		80			224
204					
		52			222
205					
		41			209
206					
TOTAL		1162			3618

NOTE BOOK NO. 727

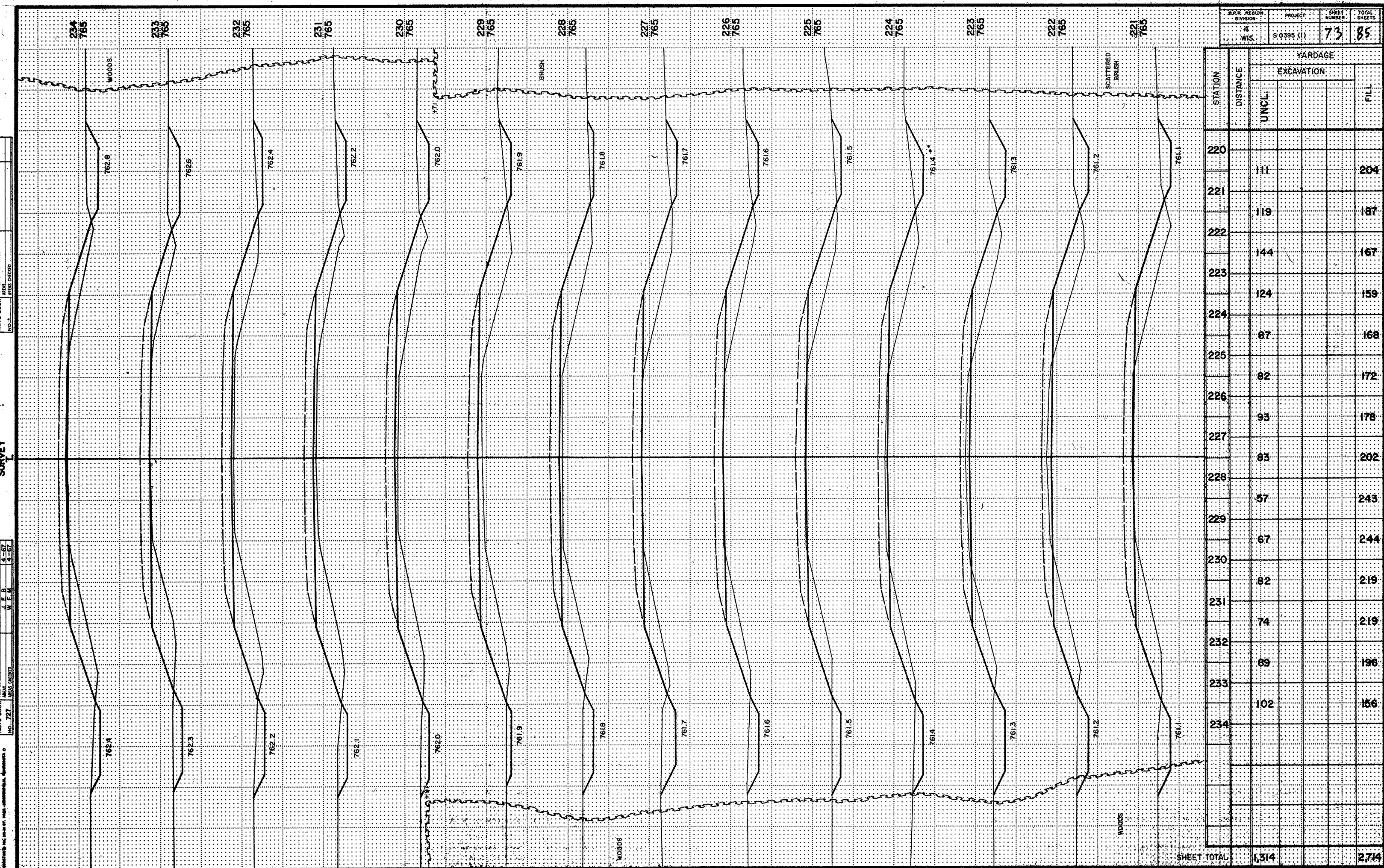
SURVEY

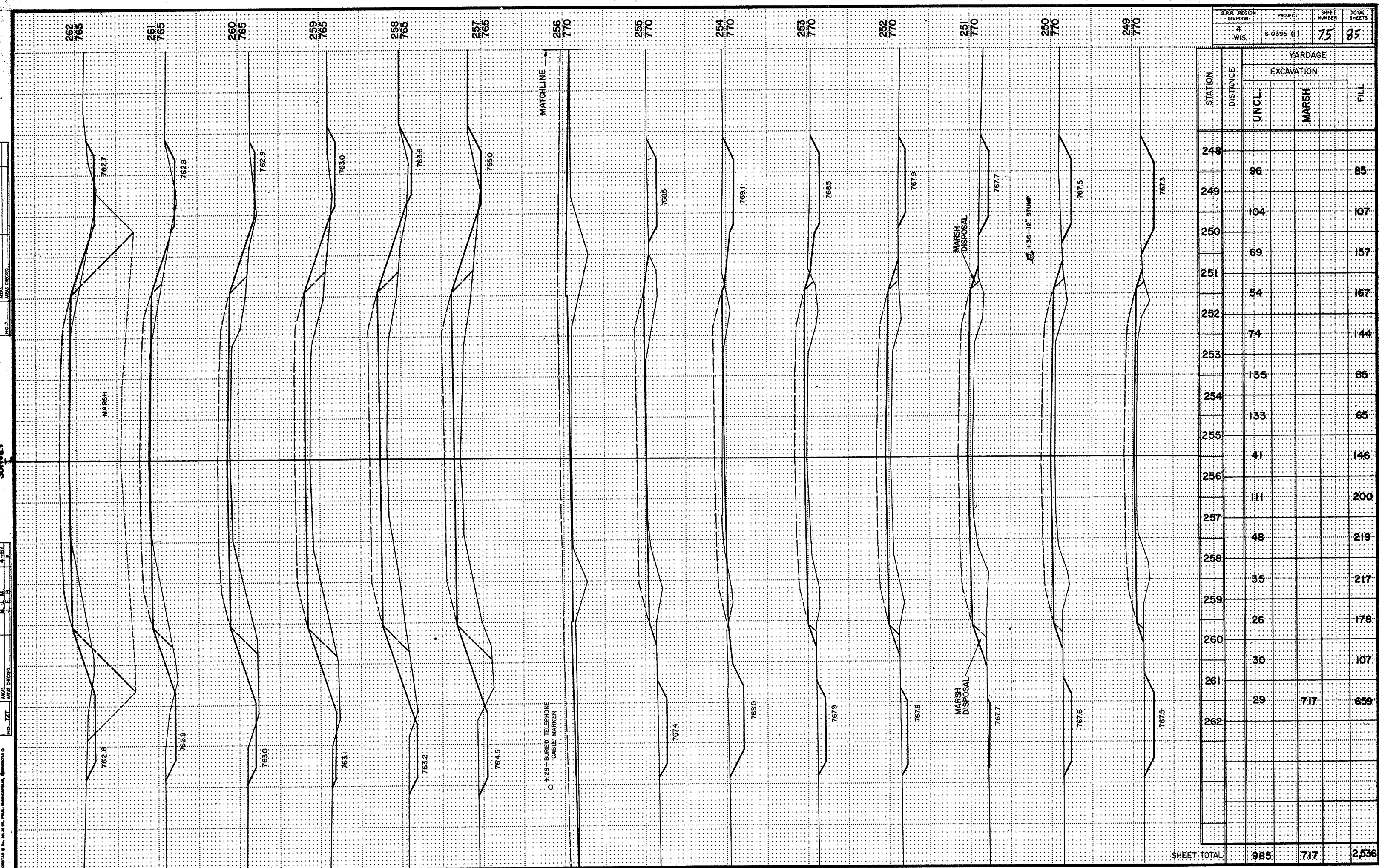
NOTE BOOK NO. 727

NOTE BOOK NO. 727



S.P.R. REGION DIVISION :		PROJECT :		SHEET NUMBER :		TOTAL SHEETS :	
4 WIS.		S 0395 (1)		72		85	
STATION	DISTANCE	YARDAGE					
		EXCAVATION				FILL	
		UNCL.					
206							
		50					215
207							
		65					224
208							
		67					220
209							
		44					259
210							
		52					265
211							
		66					230
212							
		67					244
213							
		67					269
214							
		68					270
215							
		69					265
216							
		70					259
217							
		98					235
218							
		118					211
219							
		122					211
220							



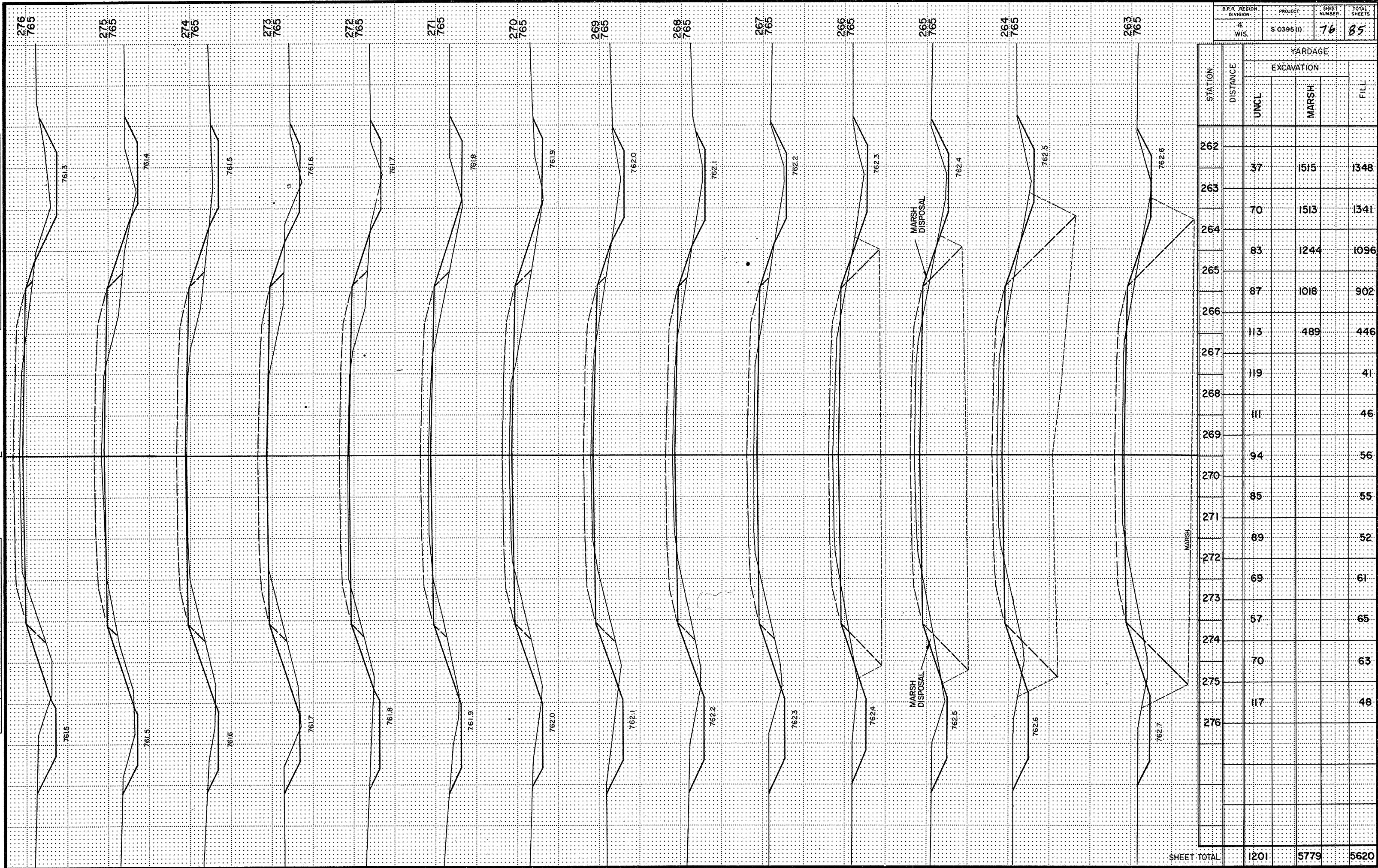


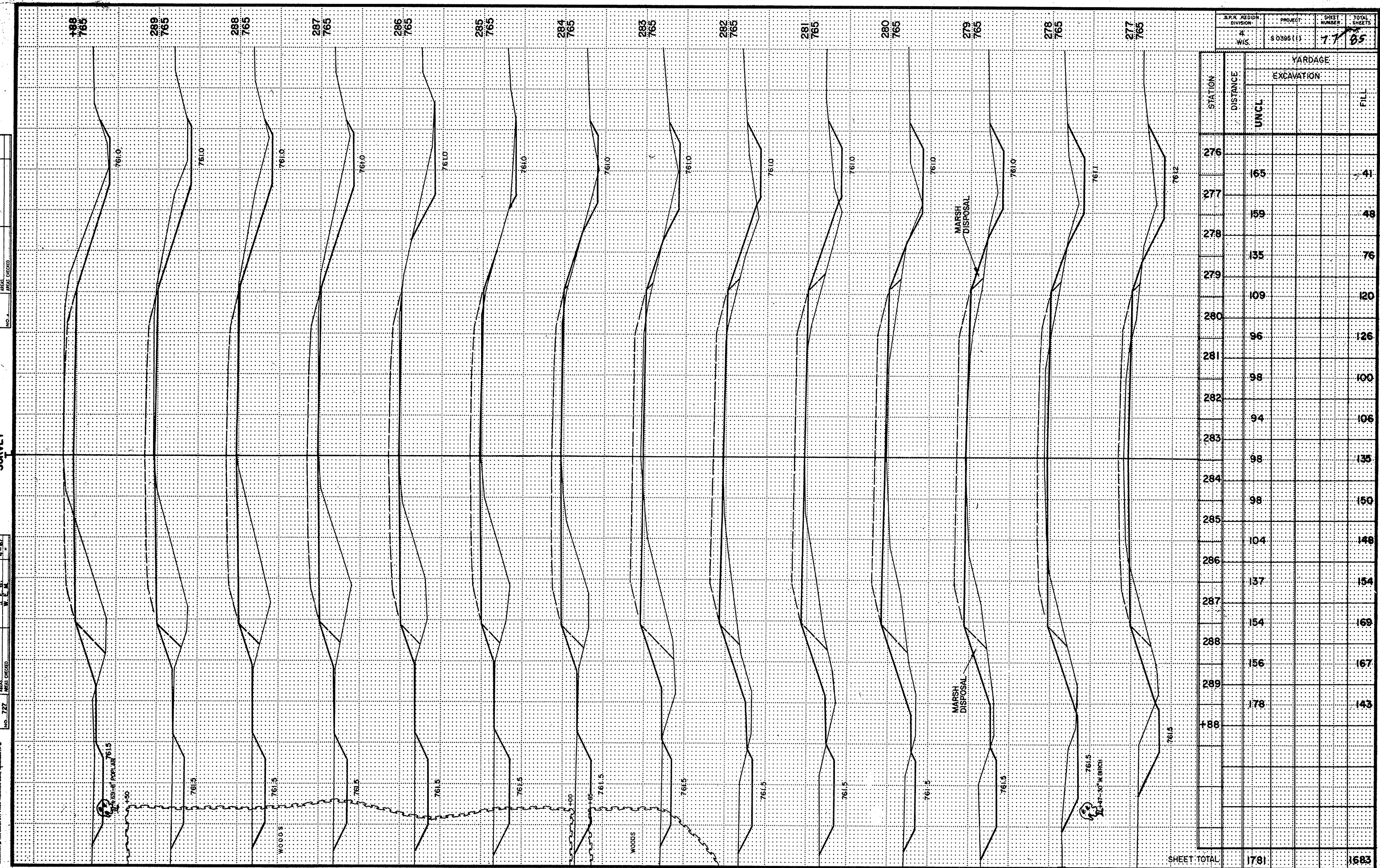
NOTE BOOK TEMPLATE
NO. 727
DATE
REVIS
AREAS CHECKED

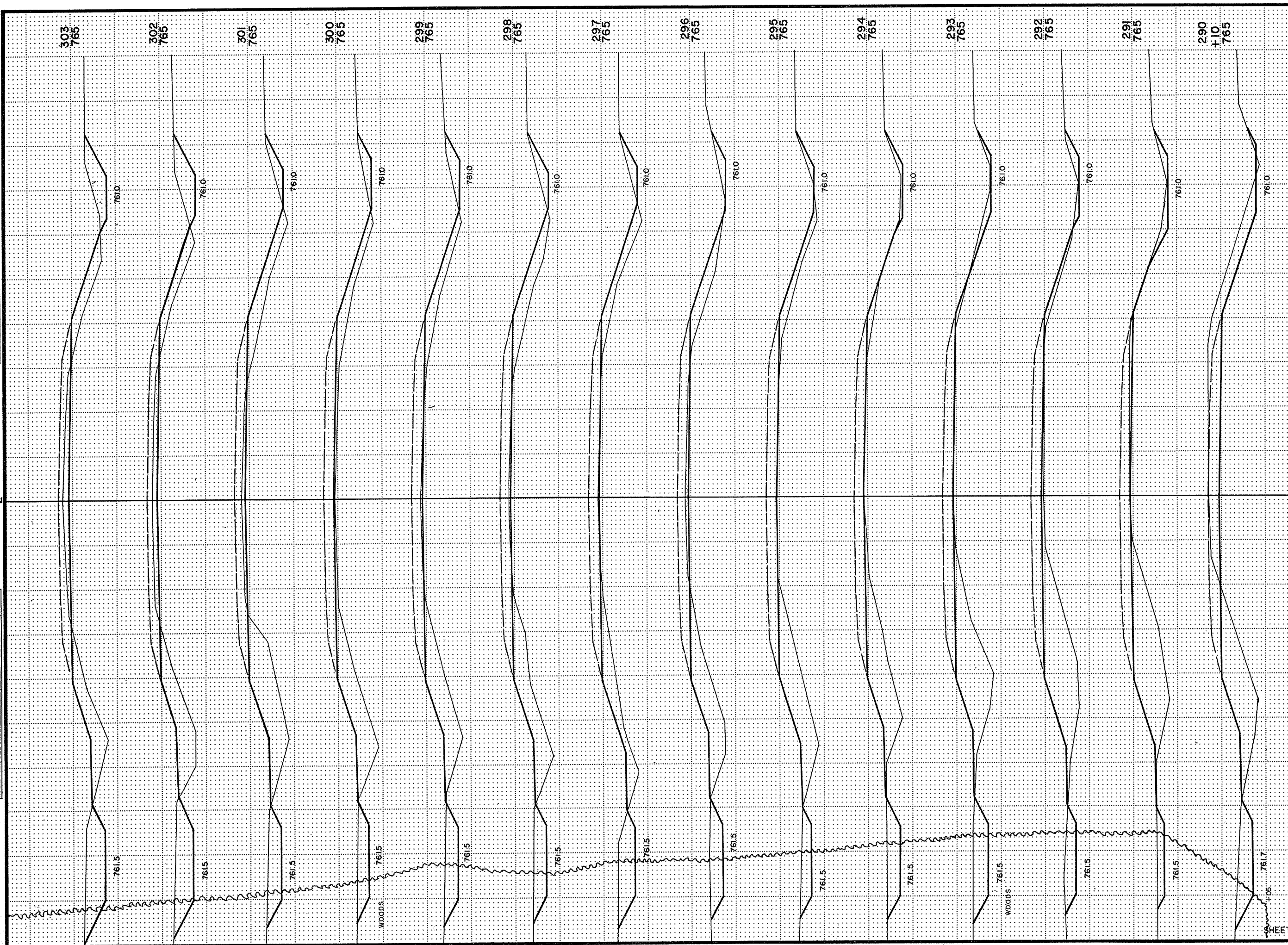
SURVEY

NOTE BOOK TEMPLATE
NO. 727
DATE
REVIS
AREAS CHECKED

NOTES: 1. ALL DIMENSIONS SHALL BE IN FEET AND INCHES.
2. ALL DIMENSIONS SHALL BE TO THE CENTER OF THE ROAD.
3. ALL DIMENSIONS SHALL BE TO THE CENTER OF THE ROAD.





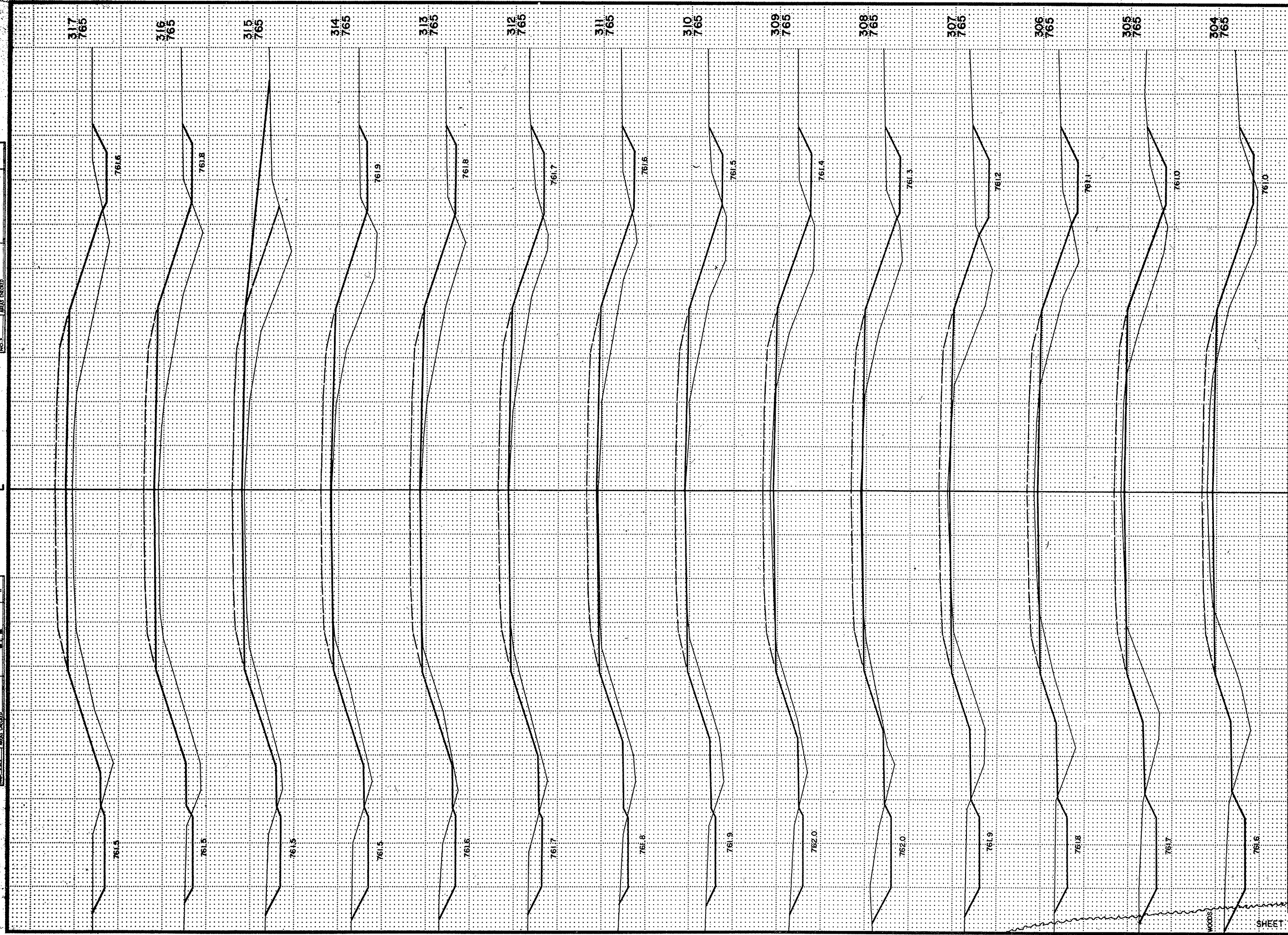


S.P.R. REGION DIVISION		PROJECT		SHEET NUMBER	TOTAL SHEETS
4 WIS.		S0395 (I)		78	85
STATION	DISTANCE	YARDAGE			
		EXCAVATION			FILL
		UNCL			
288					
290 +10		0			0
291		146			150
292		63			204
293		78			194
294		80			161
295		61			168
296		72			176
297		89			139
298		82			148
299		81			174
300		83			165
301		102			174
302		159			159
303		193			126
TOTAL		1289			2138

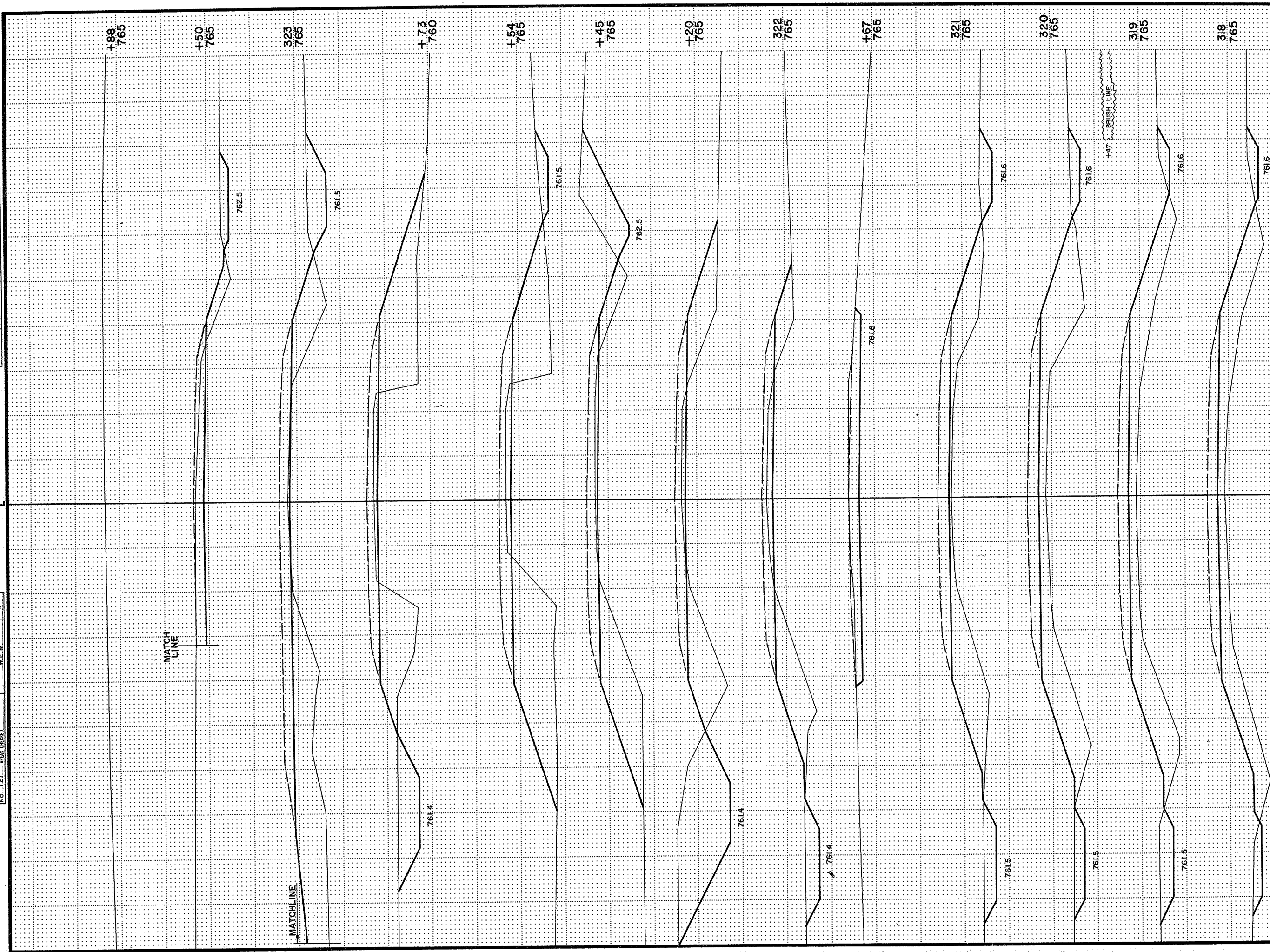
NO. 1
1/4" = 100'
1/8" = 200'
1/16" = 400'
1/32" = 800'
1/64" = 1600'

1/4" = 100'
1/8" = 200'
1/16" = 400'
1/32" = 800'
1/64" = 1600'

1/4" = 100'
1/8" = 200'
1/16" = 400'
1/32" = 800'
1/64" = 1600'



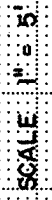
STATION	DISTANCE	YARDAGE			
		EXCAVATION			FILL
		UNCL			
303		178			150
304		157			174
305		137			174
306		128			198
307		126			182
308		106			150
309		69			159
310		50			150
311		65			137
312		81			154
313		89			194
314		76			230
315		54			283
316		67			333
317					
SHEET TOTAL		1383			2668



S.P.R. REGION DIVISION	PROJECT	SHEET NUMBER	TOTAL SHEETS
4 WIS.	S-0396 (1)	80	85

STATION	DISTANCE	YARDAGE		
		EXCAVATION		FILL
		UNCL		
317				
318	70			365
319	68			400
320	83			420
321	93			370
322	91			104
+67	46			32
322	48			46
+20	67			63
+45	9			35
+54	6			43
+73	24			94
323	48			120
+50	17			4
+88				
SHEET TOTAL		670		2096

B.P.R. REGION DIVISION	PROJECT	SHEET NUMBER	TOTAL SHEETS
4 WIS.	S 0395 (1)	81	85

[illegible]

SHEET TOTAL

[illegible]

SHEET TOTAL

211

518

SCALE 1" = 5'

MATCH
LINE

11. +71-42nd ELM

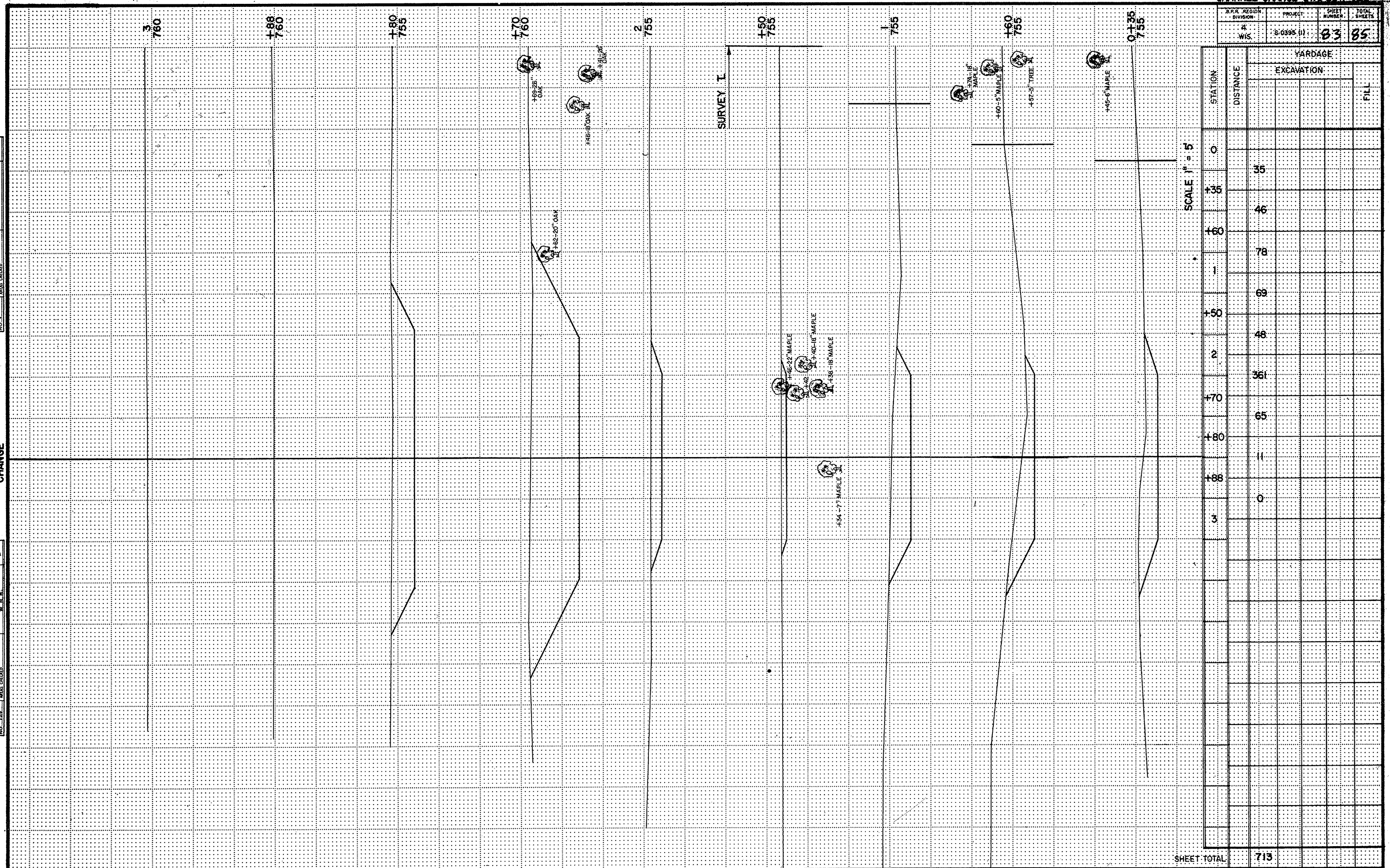
G. POST

W. G. POST.

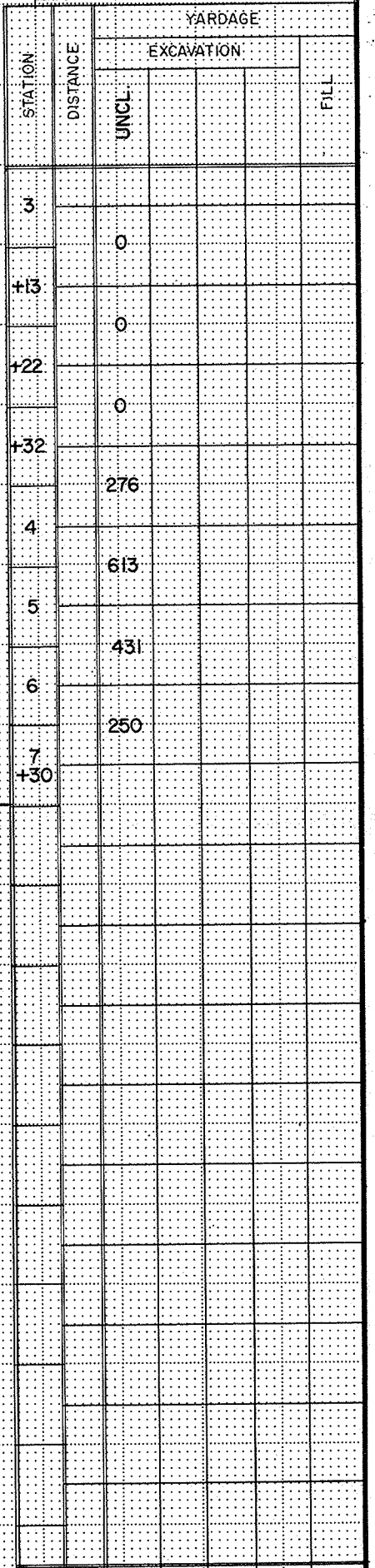
SURVEY:

[NO.] DATE **AREAS CHECKED**

NO. 122	AREAS CHECKED	W. K. K.	3-67
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NORSTAR © No. 101-36 ST. PAUL-MINNEAPOLIS, MINNESOTA O



SHEET TOTAL	1,570
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B.P.R. REGION DIVISION	PROJECT	SHEET NUMBER	TOTAL SHEETS
4 WIS.	S 0393 (1)	85	85

SCALE 1" = 5'

676