0-4

COUNTY AND HIGHWAY	ROUTE AND SECTION	CLASS AND AGREEMENT		B.P.R. REGION DIVISION	SHEET NUMBER	TOTAL SHEETS
		STATE	FEDERAL			
44.6	112.0		11.1	4 WIS.	1	53

INDEX OF SHEETS

SHEET NO. 1 TITLE
SHEET NO. 2 TYPICAL CROSS SECTIONS
SHEET NO. 2 ESTIMATE OF QUANTITIES
SHEET NO. 2 MISCELLANEOUS QUANTITIES
SHEET NO. 3-3.5 RIGHT OF WAY PLAT
SHEET NO. 4-15 PLAN AND PROFILE STA. 18+10.3 TO STA. 348+28
SHEET NO. 16-24 STANDARD DETAILS
SHEET NO. 25-28 DRAINAGE STRUCTURES
SHEET NO. 29-53 CROSS SECTIONS



STATE OF WISCONSIN

STATE HIGHWAY COMMISSION OF WISCONSIN

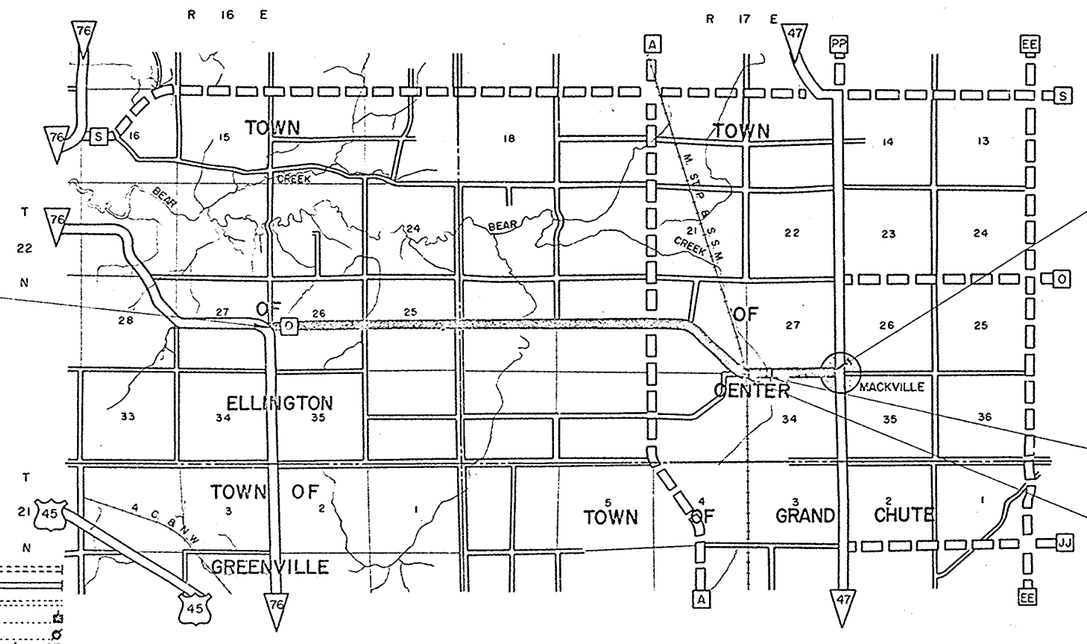
PLAN AND PROFILE OF PROPOSED

S.T.H. 76 - MACKVILLE ROAD
C.T.H. "O"

OUTAGAMIE COUNTY

PROJ. S 0112 (1)

SCALES { PLAN 1 IN. 100 FT.
PROFILE HOR. 1 IN. = 100 FT. VERT. 1 IN. = 10 FT.
CROSS SECTIONS HOR. 1 IN. = 5 FT. VERT. 1 IN. = 5 FT.



BEGINNING OF PROJECT
S 0112 (1) STA. 18+10.3
139.5' WEST & 128' SOUTH OF THE EAST 1/4 COR. SEC. 27, T 22 N, R 16 E.

END OF PROJECT S 0112 (1)
STA. 348+28
2617.5' EAST OF THE SOUTH 1/4 COR. SEC. 27, T 22 N - R 17 E.

EXCEPTION TO ℄ LENGTH:
STA. 307+50 TO STA. 307+73

EXCEPTIONS TO ℄ LENGTH:
STA. 295+26.0 TO STA. 295+38.75
STA. 295+67.9 TO STA. 295+80.66

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 — PL + 326
TRAVELED WAY OR P.E.
RAILROADS
BASE OR SURVEY LINE — 30

CULVERTS IN PLACE
CULVERTS REQUIRED
DROP INLET
POWER POLE
TELEPHONE OR TELEGRAPH POLE
RIGHT OF WAY MARKERS
REFERENCE STAKE FOR HUBS ONLY — 461.7 / 25.9
MARSH
HEDGE
TREES
GROUND ELEVATION — DATUM LINE — 733.9
GRADE ELEVATION — DATUM LINE — 751.6

LAYOUT

SCALE — ONE MILE

TOTAL NET LENGTH OF CENTERLINE = 6.244 MI.

STATE HIGHWAY COMMISSION OF WISCONSIN
MADISON, WIS.

SURVEYOR R.D.N. NOTE BOOK 312, 8, 313
DISTRICT COMPUTER W.F.S. M. O. CHECKER W.H.B.
DISTRICT CHECKER W.R.K. CORRECT

CORRECT:
DATE 9-27-61 Dale E. Embery DISTRICT ENGINEER

RECOMMENDED FOR APPROVAL:
DATE 10-3-61 J. S. Pilz ENGINEER OF DESIGN

APPROVED:
DATE 10-3-61 for M. F. Hankin STATE HIGHWAY ENGINEER

DEPARTMENT OF COMMERCE
BUREAU OF PUBLIC ROADS

APPROVED:
DATE
DIVISION ENGINEER

"O" - 4

Project #106

(1960)

ESTIMATE OF QUANTITIES

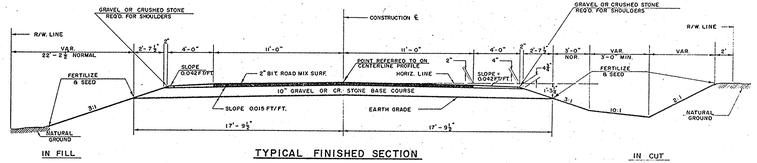
CONTRACT NO. 1, 2 & 3.

PROJECT	SHEET NUMBER	TOTAL SHEETS
S 01:2 (11)	2	53

PROJECT IS TO BE EXECUTED UNDER THE STANDARD SPECIFICATIONS FOR ROAD AND BRIDGE CONSTRUCTION OF THE STATE HIGHWAY COMMISSION OF WISCONSIN — EDITION OF 1957
ROVED AUG. 9, 1957, AND SPECIAL PROVISIONS ATTACHED TO PROPOSAL.

CONTROL	STATION TO STATION	NET LENGTH OF CENTER LINE	CLEARING	CLEARING	CLEARING	GRUBBING	EXCAVATION				GRAVEL OR CRUSHED STONE BASE COURSE		CULVERT PIPE				RIP-RAP	STEEL PLATE BEAM GUARD	STRUCTURAL PLATE PIPE ARCH & SPAN, GAGE	MARKER POSTS	MORTAR RUBBLE STONE CHECKS	MORTAR RUBBLE MASONRY	FINISHING ROADWAY	OBLITERATING OLD ROAD	CONCRETE CURB & GUTTER TYPE "O" 6"-4"	CALC. ORDER SURF. TREATMENT	CONC SURF. DRAINS	FERTILIZER	SEEDING	REMOVING OLD BRIDGE STA. 1159+48 BRIDGES	EXCAVATION FOR STRUCTURES BRIDGES	GRANULAR BACKFILL	CONC MASONRY BRIDGES	BAR STEEL REINFORCEMENT BRIDGES	TIMBER PILES FURNISHED	TIMBER PILES DRIVEN	CONC. FENCE POSTS, WIRE & GATES	CONC. FENCE POSTS, WIRE & GATES	CONC. FENCE POSTS, WIRE & GATES	STEEL RAILING	RIP-RAP	FLOOD DRAINS	BEARING PILES
	ITEM NO.		2101-1	2101-2	2101-4	2101-5	2106-1	2106-2	2106-5	2109-1	2203-1	2203-5	2411-1	2411-3	2411-6	2411-9	2512-1	2523-3	2612-0	2623-5	2516-3	2609-2	2116-1	2116-11	2521-11	2525-1	2301-10	2531-1	2532-1	2104-12	2107-1	2101-1	2401-1	2406-1	2107-1	2408-2	2505-1	2505-2	2505-3	2512-1	2512-11	2520-0	S.B.
	UNIT	LIN. FT.	STA.	I.O.	STA.	I.O.	C.Y.	C.Y.	C.Y.	C.Y.	TON	TON	LIN. FT.	LIN. FT.	LIN. FT.	LIN. FT.	LIN. FT.	LIN. FT.	LIN. FT.	LIN. FT.	EACH	C.Y.	C.Y.	L.S.	STA.	LIN. FT.	TON	C.Y.	CWT.	50. YD.	L.S.	C.Y.	C.Y.	L.S.	L.S.	M.B.M.	L.S.	L.F.	L.F.	L.F.	C.Y.	EA.	SQ. FT.
1																														1	80	60	61.7	9,150	19,180	4.34	1	420	300	98	80	2	12
2	18+10.3 — 348+28			1,453		2,745	7,239	222	44,081	19,010		71,000	1,876	638	64	276	160	10	108	54	150	90	2.8		1	10	222	44	3	150	63,000													
3											71,000																																
	TOTALS	32,969.19		1,453		2,745	7,239	222	44,081	19,010	71,000	71,000	1,876	638	64	276	160	10	108	54	150	90	2.8		1	10	222	44	3	150	63,000	1	80	60	61.7	9,150	19,180	4.34	1	420	300	98	80	2	12

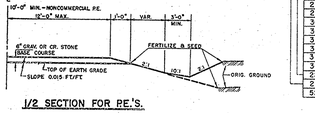
BRIDGE CONTRACT NO. 1



IN FILL — TYPICAL FINISHED SECTION — IN CUT



1/2 SECTION FOR SD. RD'S.



1/2 SECTION FOR P.E.'S.

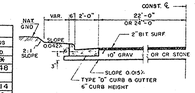
CULVERT PIPES

STATION	LOCATION	DIA. (INCHES)	LIN. FT.	TYPE
28+50	℄	48	76	C.P.
29+15	PE - LT.	30	32	C.P.
29+45	PE - RT.	24	32	C.P.
43+90	℄	24	70	C.P.
71+66	℄	7' SPAN	54	S.P.P.A.
72+86	TN. RD. RT.	18	40	C.P.
97+98	℄	36	44	C.P.
116+15	℄	24	56	C.P.
124+50	℄	24	62	C.P.
140+55	℄	36	56	C.P.
165+70	PE - RT.	24	32	C.P.
166+25	PE - LT.	24	32	C.P.
185+66	℄	24	44	C.P.
205+25	℄	24	46	C.P.
223+28	℄	24	58	C.P.
234+50	℄	24	52	C.P.
253+55	℄	48	84	C.P.
271+95	℄	36	44	C.P.
284+85	℄	36	68	C.P.
291+00	SD. RD. RT.	18	40	C.P.
295+50	R/R LT.	18	72	C.P.
301+80	PE - RT.	24	32	C.P.
308+90	PE - LT.	36	32	C.P.
309+20	PE - RT.	24	32	C.P.
322+80	PE - RT.	24	32	C.P.
331+00	PE - LT.	30	32	C.P.
345+57	℄	24	58	C.P.
227+90	PE. - RT.	36	32	C.P.
253+40	TN. RD. LT.	18	60	C.P.
52 P.E.'S @ 18' X 3'			1,664	C.P.

CLEARING & GRUBBING

STATION TO STATION	CLEARING STA.	CLEARING I.O.	GRUBBING STA.	GRUBBING I.O.
18+10.3 — 20+00			*	*
20+00 — 28+00		54		248
28+00 — 29+00				
29+00 — 53+00		46		314
53+00 — 55+00		36		36
55+00 — 86+00		80		350
86+00 — 108+00		*		*
108+00 — 111+00		164		164
111+00 — 145+00		*		*
145+00 — 147+00		40		62
147+00 — 159+00		*		*
159+00 — 208+00		229		769
208+00 — 216+00		*		*
216+00 — 249+00		338		338
249+00 — 260+00		*		*
260+00 — 293+00		170		168
293+00 — 330+00		*		*
330+00 — 331+00		10		10
331+00 — 333+00		52		52
333+00 — 345+00		*		*
345+00 — 348+28		204		204
125+58 — VISION COR		50		50

* INDICATES BASIS OF PAYMENT



CURB & GUTTER SECTION

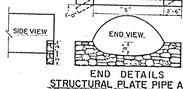
STA. 86+05 — STA. 86+93.0 RT
STA. 147+00 — STA. 146+20.5 LT.

MARKER POSTS

LOCATION	NUMBER
FOR CULVERTS	36
FOR SHOULDER DELINEATION	108
UNDISTRIBUTED	6

GRAVEL OR CR STONE BASE COURSE

LOCATION	TON
CENTERLINE	67,400
PE'S & SD. RDS.	3,600
TOTAL:	71, 000



END DETAILS
STRUCTURAL PLATE PIPE ARCH
STA. 711+66

GENERAL NOTES

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

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 DIRECTED BY THE ENGINEER.

ON ALL HORIZONTAL CURVES HAVING A SUPER-ELEVATION, THE NORMAL CROWN SHALL BE REMOVED AND THE PAVEMENT SURFACE, BASE COURSE, AND EARTH GRADE SHALL REMAIN IN A STRAIGHT LINE SLOPE ACROSS THE ENTIRE WIDTH OF ROADBED.

BITUMINOUS ROAD MIX SURFACE NOT A PART OF THIS CONTRACT.

STANDARD DETAILS

DETAILS OF PE & SD RD APPROACHES	1-3.1.1
OBLITERATING OLD ROAD	1-4.1.1
CONCRETE CURB & GUTTER	3-1.1.6
STRUCTURAL PLATE PIPE ARCH	6-5.3.1
MARKER POST	7-1.3.3
STEEL PLATE BEAM GUARD	7-2.4.6
CONSTRUCTION BARRICADE	7-4.1.2
M.R.M. DITCH CHECKS	8-1.3.1
DESIGN & LAYOUT SD RD AT GRADE INTERSECTION	9-1.1.3

NOTE: USE TYPE "E" DIAGRAM OF PLATE 9-1.1.3

TYPICAL CROSS SECTION
FOR
30 FT. ROADBED — 22 FT. BIT. SURFACE
AND
MISCELLANEOUS CONSTRUCTION DETAILS

SCALE
VARIABLE

BOOK NO. 312

COUNTY AND HIGHWAY	ROUTE AND SECTION	CLASS AND AGREEMENT STATE	CLASS AND AGREEMENT FEDERAL	FEDERAL DIVISION OFFICE	SHEET NUMBER	TOTAL SHEETS
44.6	112.0		11.1	4	4	

S 0112(1) 3-53

R. 16 E. R. 17 E.

T. 22 N.

TOWN OF ELLINGTON

TOWN OF CENTER

MACKVILLE

STA. 348+42.6 END OF RELOCATION ORDER

STA. 19+99.6 BEG. OF RELOCATION ORDER

LOCATION SKETCH

SCALE 0 ½ 1 MILE

CURVE NOTES
P.I. = 46+38
∠ = 178°-51'
Δ = 1°-09'
D = 0°-10'
T = 345'
L = 689.8'
R = 34377.48'

P.I. = 19+99.6
∠ = 178°-28'

SE-NE — JOHN REIMER JR.

SW-NW

SE-NW — ROBERT IMMEL (3)

SW-NE — MAHLON BUNGERT (5)

W½-W½-SE-NE

NE-SE

NW-SW — CLARENCE KREUTZBERG (2)

NE-SW

NW-SE — WILFORD IMMEL (4)

P.C. 42+93

P.T. 49+82.8

P.I. 46+38

P.I. 59+61

P.I. 62+85

21+24.6

19+39.6

S.T.H. 76 N. 88°-32' E. (MAG.)

C.T.H. "O" N. 88°-00' E.

W. 88°-51' E.

CENTER OF SEC. 3 SOUTH OF P.I.

VOL. 536 - R. 61

T. 22 N. R. 16 E. 26

T. 22 N. R. 16 E. 27 26

SCHEDULE OF LAND AND INTEREST REQUIRED

NO.	OWNER	ACRES REQ'D.		INTEREST REQUIRED
2	CLARENCE KREUTZBERG	0.48		HIGHWAY EASEMENT
3	ROBERT IMMEL	0.55		" "
4	WILFORD IMMEL	0.22		" "
5	MAHLON BUNGERT	0.25		" "
6	WILFORD IMMEL	0.03		" "

STATE HIGHWAY COMMISSION OF WISCONSIN

PLAT OF RIGHT OF WAY REQUIRED

PROJECT S 0112 (1)

STH. 76 — MACKVILLE ROAD

C.T.H. "O" OUTAGAMIE COUNTY

SCALE 0' 100' 200 400'

LENGTH = 6.220 MILES

DATED APRIL 25, 1961

COUNTY AND HIGHWAY	ROUTE AND SECTION	CLASS AND AGREEMENT STATE	CLASS AND AGREEMENT FEDERAL	FEDERAL DIVISION OFFICE	SHEET NUMBER	TOTAL SHEETS
44.6	112.0		11.1	4	4.1	

S0112(1) 3.1-53

T. 22 N. R. 16 E. — Sec. 26, Sec. 25

W½-W½-SE-NE | E½-W½-SE-NE | E½-SE-NE | SW-NW | SE-NW | SW-NE | SE-NE

ARDEN C. PETERSON

ELMER J. FASSBENDER

LLOYD JENTZ (12)

HERBERT LOOS (15)

DONALD TIMM (17)

SEE SHEET 4 FOR OWNER

HENRY R. PINGEL (8)

CHEESE FACTORY

WELL

DRIVEWAY

TOWN OF ELLINGTON

TOWN OF CENTER

T.W.N. RD. 124+58

T.W.N. RD. 72+86

T.W.N. RD. 125+58

P.I. 88+67.1
Δ = 1°-33'
D = 0°-15'
T = 310'
L = 620'
R = 22,918.33'

P.I. = 110+07
Δ = 180°-54'

N. 86°-51' E.

C.T.H. "O"

N. 88°-24' E.

N. 89°-18' E.

CENTER OF SEC. 25 | NORTH OF

¼ COR. 16' NORTH OF

ALFRED BUNGERT (7) — NE-SE

JOHN BOHL (10) — NW-SW

EMIL JENTZ (14) — NE-SW

NW-SE

ZEDA I. LOOS (16) — NE-SE

CURVE NOTES
P.I. = 88+67.1
Δ = 181°-33'
Δ = 1°-33'
D = 0°-15'
T = 310'
L = 620'
R = 22,918.33'

SCHEDULE OF LAND AND INTEREST REQUIRED

NO.	OWNER	ACRES REQ'D.		INTEREST REQUIRED HIGHWAY	INTEREST REQUIRED EASEMENT
7	ALFRED BUNGERT	0.58			
8	TRUSTEES OF THE ELLINGTON IMMANUEL'S CHURCH	0.03		"	"
10	JOHN BOHL	0.51		"	"
12	LLOYD JENTZ	0.09		"	"
14	EMIL JENTZ	0.31		"	"
15	HERBERT LOOS	0.12		"	"
16	ZEDA I LOOS	0.75		"	"
17	DONALD TIMM	0.18		"	"

STATE HIGHWAY COMMISSION OF WISCONSIN

PLAT OF RIGHT OF WAY REQUIRED

PROJECT S 0112 (1)

S.T.H. 76 — MACKVILLE ROAD

C.T.H. "O" OUTAGAMIE COUNTY

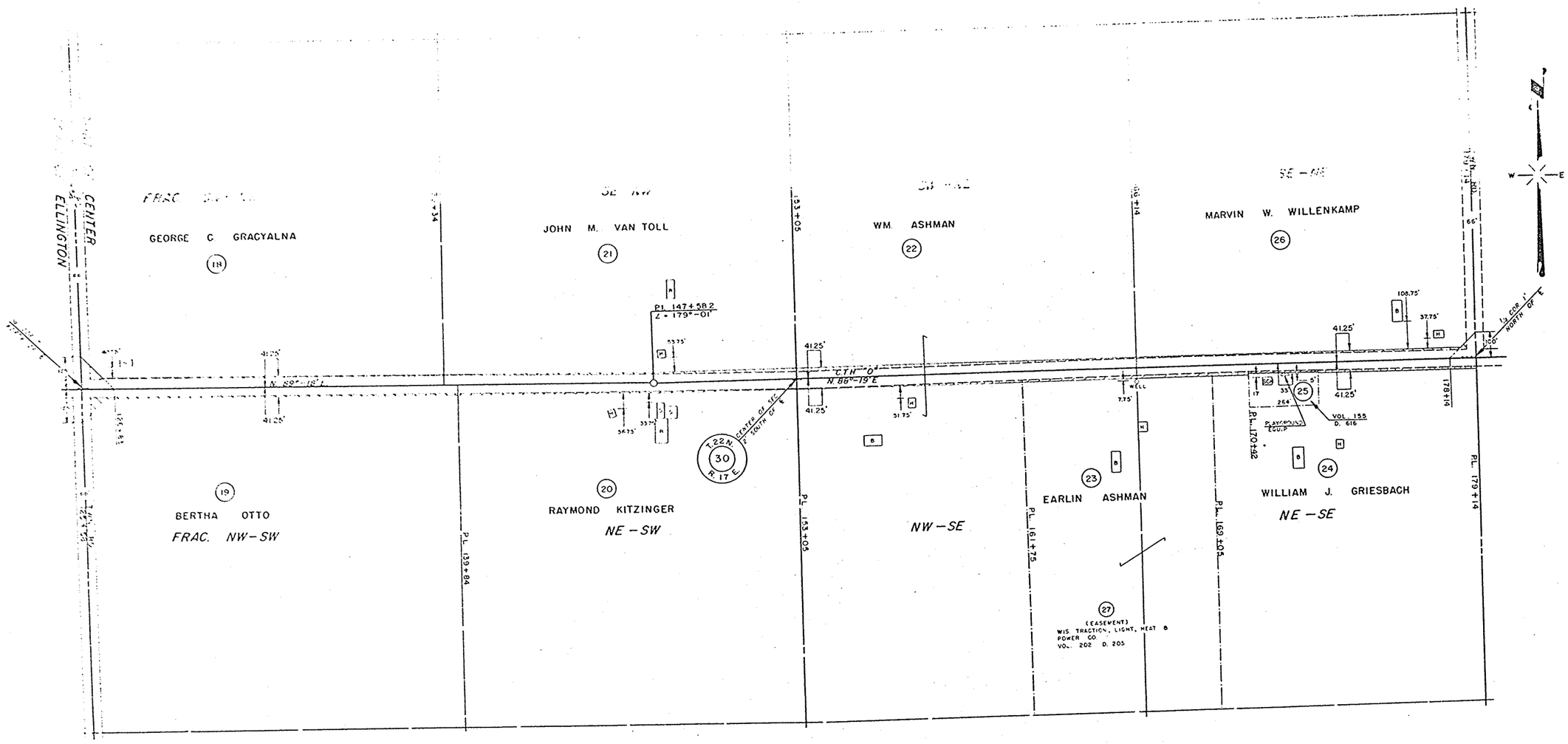
SCALE 0 100 200 400

LENGTH = 6.220 MILES

DATED APRIL 25, 1961

COUNTY AND HIGHWAY	ROUTE AND SECTION	CLASS AND AGREEMENT STATE	CLASS AND AGREEMENT FEDERAL	FEDERAL DIVISION OFFICE	SHEET NUMBER	TOTAL SHEETS
446	112.0		11.1	4	42	

S0112(1) 3.2-53



SCHEDULE OF LAND AND INTEREST REQUIRED

NO.	OWNER	ACRES REQ'D.		INTEREST REQUIRED HIGHWAY	INTEREST REQUIRED EASEMENT
18	GEORGE C. GRACYALNA	0.16		"	"
19	BERTHA OTTO	0.42		"	"
20	RAYMOND KITZINGER	0.21		"	"
21	JOHN M. VAN TOLL	0.29		"	"
22	WM. ASHMAN	0.41		"	"
23	EARLIN ASHMAN	0.16		"	"
24	WILLIAM J. GRIESBACH	0.42		"	"
25	SCHOOL DIST. NO. 2	0.02		"	"
26	MARVIN W. WILLENKAMP	0.19		"	"
27	WIS. TRACTION, LIGHT, HEAT & POWER CO.			"	"

STATE HIGHWAY COMMISSION OF WISCONSIN

PLAT OF RIGHT OF WAY REQUIRED

PROJECT S 0112 (1)

ST.H. 76 — MACKVILLE ROAD

C.T.H. "O" OUTAGAMIE COUNTY

SCALE 0' 100' 200' 400'

LENGTH = 5.220 MILES

DATED APRIL 25, 1961

COUNTY AND HIGHWAY	MILES AND SECTION	CROSS AND RIGHT OF WAY STATE	FEDERAL	HIGHWAY DIVISION OFFICE	SHEET NUMBER	TOTAL SHEETS
44.6	112.0.		11.1	4	4.3	

S0112(1) 3.3-53

T.22N. R.17E. 29 28

W — E

66'

TWN. RD. 179+14

W½-SW-NW

E½-SW-NW

WILLIAM J. GRIESBACH (24)

SE-NW

PI. 195+69

SW-NE

(35) FLOYD U. MEYER

SE-NE

218+85

(36) A.N. PLUTZ

W½-SW-NW

(42) ROBERT K. SCHMIDT

230

C.T.H. "A"

232+42

PI. 239+27

W¼ COR. NORTH OF E

PI. 179+14

PI. 182+46

PI. 185+70.8

Δ 179°-15"

(32)

N. 88°-19' E.

N. 87°-34' E.

C.T.H. "O"

N. 88°-56' E.

T.22 N. R.17 E. 29

PC. 202+19

PT. 209+02.4

PT. 235+76.8

PC. 228+51.7

(33) RALPH E. SCHROEDER

(34) ANTON SPERL

(37) LAWRENCE J. MATUSZAK

(38) ROBERT F. LINSKENS

(39)

NW-SW

NE-SW

W½-NW-SE

E½-NW-SE

NE-SE

(27) (EASEMENT) WIS. TRACTION, LIGHT, HEAT & POWER CO. VOL. 202 D. 206

(EASEMENT) WIS. TRACTION, LIGHT, HEAT & POWER CO. VOL. 202 D. 218

CURVE NOTES
P.I.=205+60.5
Δ = 181°-22'
Δ = 1°-22'
D = 0°-12'
T = 341.5'
L = 683.4'
R = 2864.90'

CURVE NOTES
P.I.= 232+14.3
Δ = 182°-35'
Δ = 2°-25'
D = 0°-20'
T = 362.6'
L = 725.1'
R = 17189.76'

SCHEDULE OF LAND AND INTEREST REQUIRED

NO.	OWNER	ACRES REQ'D.		INTEREST REQUIRED
42	ROBERT K. SCHMIDT			SEE SHEET NO. 4.4
32	ANNA KERSTEN	0.03		HIGHWAY EASEMENT
24	WILLIAM J. GRIESBACH			SEE SHEET NO. 4.2
33	RALPH E. SCHROEDER	0.37		HIGHWAY EASEMENT
34	ANTON SPERL	0.15		" "
35	FLOYD U. MEYER	0.51		" "
36	ALPHONSE N. PLUTZ	0.02		" "
37	LAWRENCE J. MATUSZAK	0.19		" "
38	ROBERT F. LINSKENS	0.29		" "
39	PAUL MANTHEY	0.02		" "
27	WIS. TRACTION LIGHT, HEAT & POWER CO.			" "

STATE HIGHWAY COMMISSION OF WISCONSIN

PLAT OF RIGHT OF WAY REQUIRED

PROJECT S 0112(1)

ST.H. 76 — MACKVILLE ROAD

C.T.H. "O" OUTAGAMIE COUNTY

SCALE

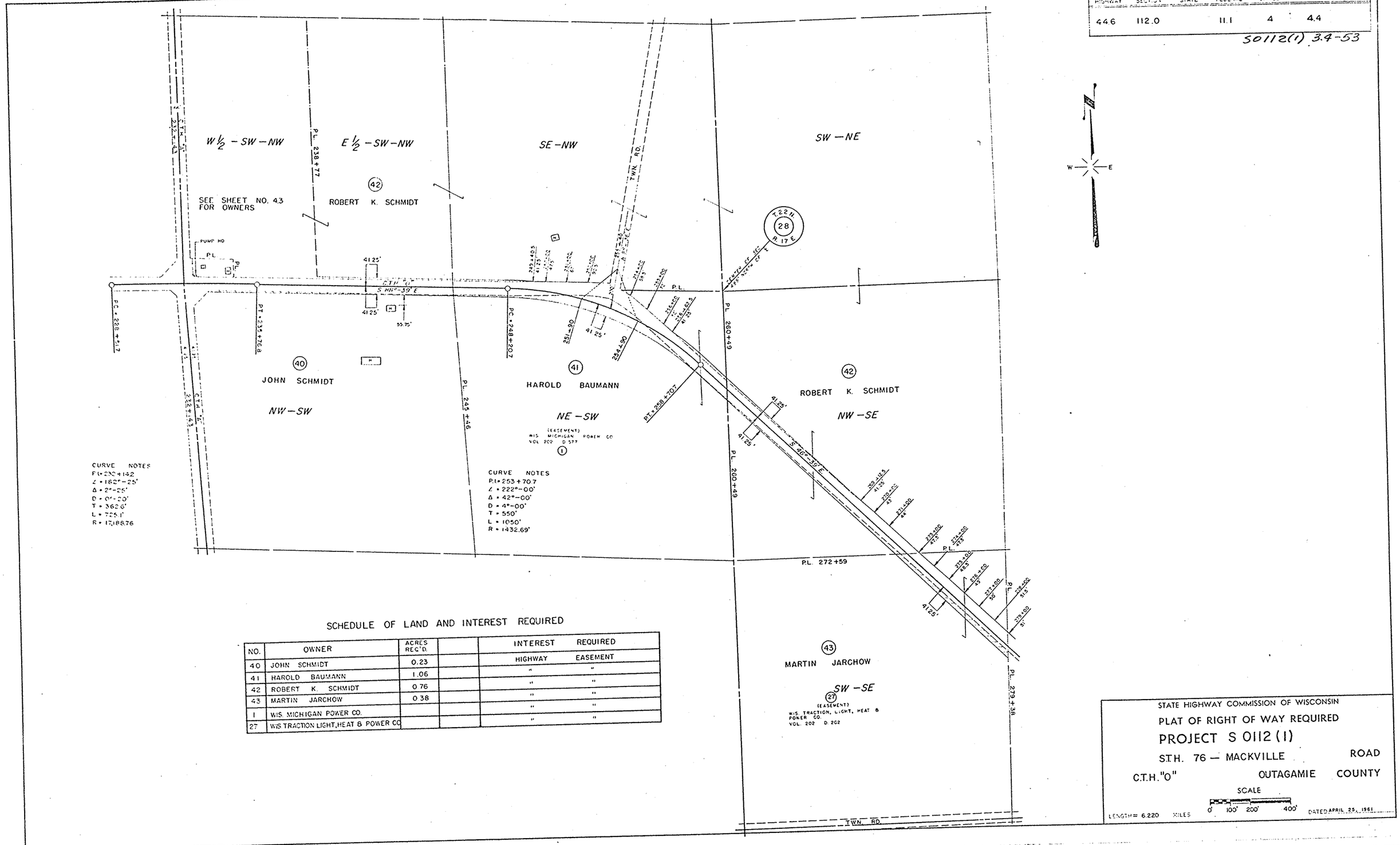
0' 100' 200' 400'

PROJECT 0.220 MILES DATED APRIL 29, 1961

BOOK NO 312

COUNTY AND HIGHWAY	ROUTE AND SECTION	CLASS AND AGREEMENT STATE	CLASS AND AGREEMENT FEDERAL	FEDERAL DIVISION OFFICE	SHEET NUMBER	TOTAL SHEETS
446	112.0		11.1	4	4.4	

S0112(1) 3.4-53



SCHEDULE OF LAND AND INTEREST REQUIRED

NO.	OWNER	ACRES REQ'D.		INTEREST REQUIRED	
				HIGHWAY	EASEMENT
40	JOHN SCHMIDT	0.23		"	"
41	HAROLD BAUMANN	1.06		"	"
42	ROBERT K. SCHMIDT	0.76		"	"
43	MARTIN JARCHOW	0.38		"	"
1	WIS. MICHIGAN POWER CO.			"	"
27	WIS TRACTION LIGHT, HEAT & POWER CO			"	"

STATE HIGHWAY COMMISSION OF WISCONSIN

PLAT OF RIGHT OF WAY REQUIRED

PROJECT S 0112 (1)

ST.H. 76 — MACKVILLE ROAD

C.T.H. "O" OUTAGAMIE COUNTY

SCALE 0' 100' 200' 400'

LENGTH = 6.220 MILES

DATED APRIL 25, 1961

AND HIGHWAY	AND SECTION	STATE	FEDERAL	DIVISION OFFICE	NUMBER	SHEETS
44.6	112.0		11.1	4	4.5	

S0112(1) 3.5-5.3

(EASEMENT) WIS. MICHIGAN POWER CO. VOL. 257 O. 457

(EASEMENT) WIS. MICHIGAN POWER CO. VOL. 257 O. 440

(EASEMENT) WIS. MICHIGAN POWER CO. VOL. 257 O. 433

(EASEMENT) WIS. MICHIGAN POWER CO. VOL. 257 O. 295

(EASEMENT) WIS. MICHIGAN POWER CO. VOL. 257 O. 452 VOL. 257 O. 443

(EASEMENT) WIS. TRACTION, LIGHT, HEAT & POWER CO. VOL. 202 O. 211

(EASEMENT) WIS. TRACTION, LIGHT, HEAT & POWER CO. VOL. 202 O. 213

(44) ALFRED KRULL — SE—SE

(46) SW—SW

(47) GERALD BERG — SE—SW

(27) SW—SE

(51) JOSEPH SCHUMACHER

(52) KATHERINE GAINOR — SE—SE

STA. 348+42.6 END OF RELOCATION ORDER

(45) MARTIN JARCHOW — NE—NE

(44) ALFRED KRULL — NW—NW

(48) JOSEPH C. GRIESBACH — NE—NW

(49) HOWARD MC GUIRE

(50) JOHN L. SALM — NW—NE

(53) MARY E. DOWNEY — NE—NE

(54) ALVIN W. MUELLER

CURVE NOTES
P.I. = 291 + 61.7
∠ = 134°-27'
Δ = 45°-33'
D = 7°-00'
T = 343.9'
L = 650.7'
R = 819.02'

T. 22 N. R. 17 E. — 28, 27, 33, 34

P.I. = 311+23.4 ∠ = 179°-27'-30"

N. 87°-28' E. — C.T.H. "O" — N. 87°-15'-30" E.

TWN. RD.

S. 46°-39' E.

S. 39°-20'-45" E.

N. 34°-20'-45" E.

VOL. 438-O. 303

VOL. 210-O. 449

BRUNNER DITCH

¼ COR. IRON PIN IN CENTER OF STONE ON E

SCALE NITROGEN TANK

S.T.H. 47

SCHEDULE OF LAND AND INTEREST REQUIRED

NO.	OWNER	ACRES REQ'D.		INTEREST REQUIRED
44	ALFRED KRULL	1.52		HIGHWAY EASEMENT
45	VALLEY NITROGEN CO.	0.08		" "
46	WIS. & NORTHERN RR CO.			PERMIT
47	GERALD BERG.	0.37		HIGHWAY EASEMENT
48	JOSEPH C. GRIESBACH	0.33		" "
49	HOWARD MC GUIRE	0.02		" "
50	JOHN L. SALM	0.28		" "
51	JOSEPH SCHUMACHER	0.20		" "
52	KATHERINE GAINOR	0.12		" "
53	MARY E. DOWNEY	0.19		" "
27	WIS. TRACTION, LIGHT, HEAT & POWER CO.			" "
54	ALVIN W. MUELLER	0.06		" "

STATE HIGHWAY COMMISSION OF WISCONSIN

PLAT OF RIGHT OF WAY REQUIRED

PROJECT S 0112 (1)

S.T.H. 76 — MACKVILLE ROAD

C.T.H. "O" OUTAGAMIE COUNTY

SCALE 0' 100' 200' 400'

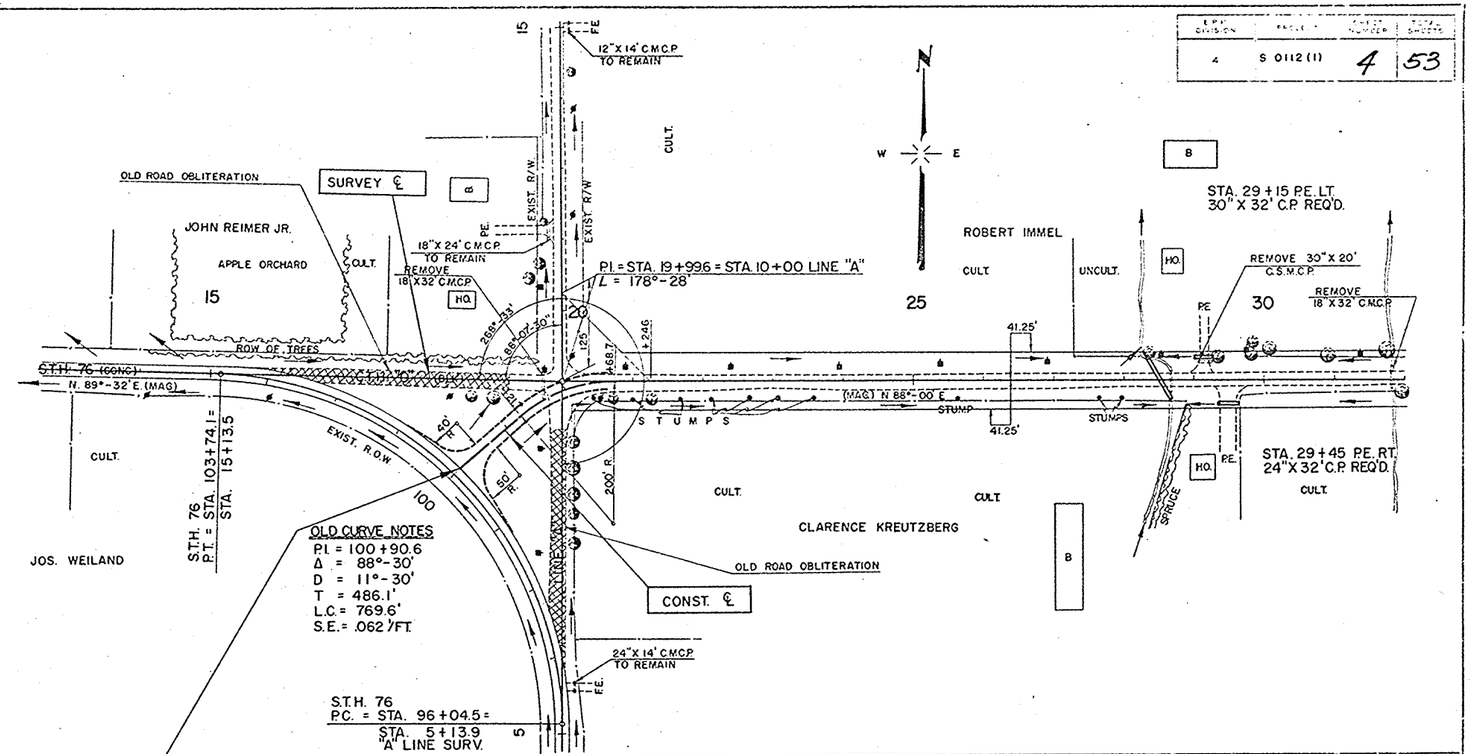
LENGTH = 6.220 MILES DATED APRIL 25, 1961

DIVISION	PROJECT NUMBER	SHEET	TOTAL SHEETS
4	S 0112 (1)	4	53

BENCH MARKS

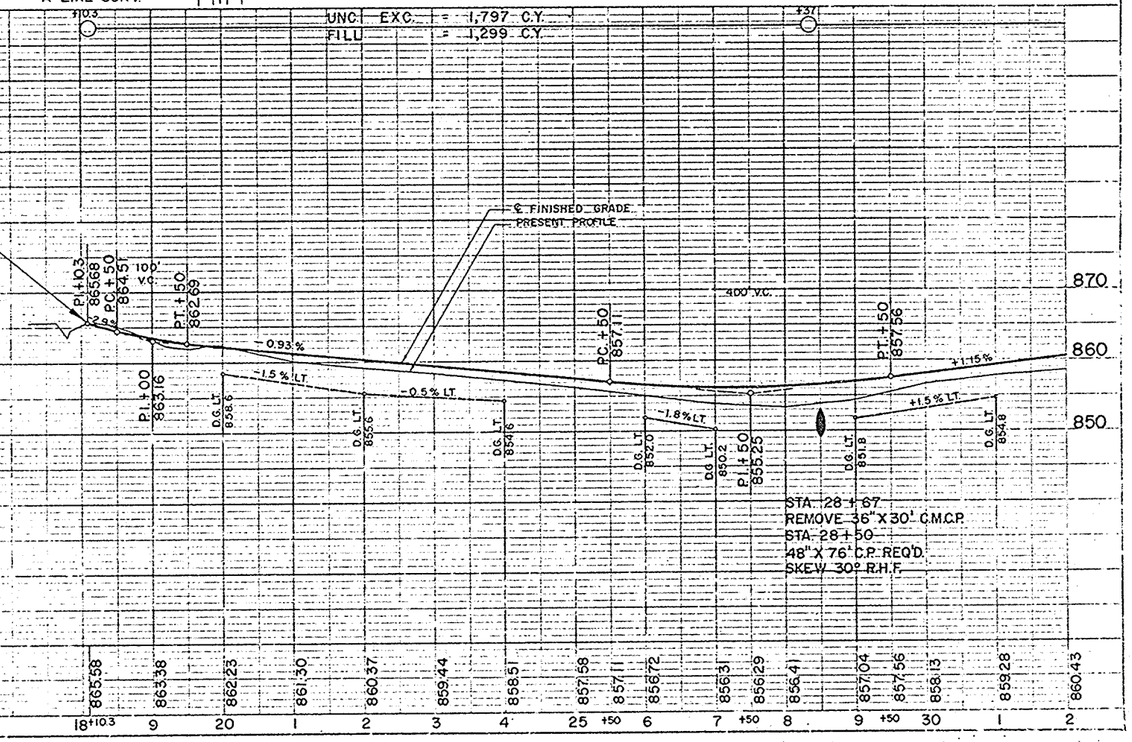
NO.	STATION	DESCRIPTION	ELEV.
1	14 + 12	SPIKE IN 24" MAPLE 24' LT.	863.73
2	20 + 15	" " " " 120' RT.	864.33
3	28 + 85	" " 14" SPRUCE 50' RT.	853.39

NET LENGTH OF CENTERLINE		
STATION TO STATION		LIN. FT.
18 + 10.3	30 + 00	1,189.70

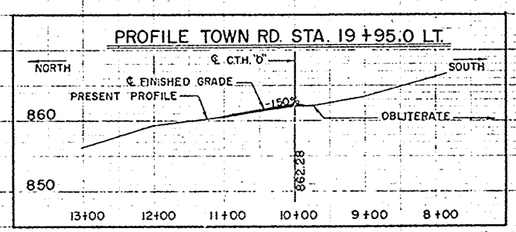


STA. 18+10.3 BEGINNING OF PROJECT S 0112 (1) = STA. 100+00 F.A.P. 3144

UNC. EXC. = 1,797 C.Y.
FILL = 1,299 C.Y.



PROFILE TOWN RD. STA. 19+95.0 LT.



LEGEND

P.E.	PRIVATE ENTRANCE
F.E.	FIELD ENTRANCE
	POWER POLE
	TELEPHONE POLE
	DRAINAGE FLOW
C.P.	CULVERT PIPE
C.M.C.P.	CORRUGATED METAL CULVERT PIPE
R.C.C.P.	REINFORCED CONCRETE CULVERT PIPE
S.P.P.A.	STRUCTURAL PLATE PIPE ARCH.
D.G.	DITCH GRADE
	OLD ROAD OBLITERATION
R/W	RIGHT OF WAY
UNC. EXC.	UNCLASSIFIED EXCAVATION
C.S.W.	CONCRETE SIDE WALK
COM. EXC.	COMMON EXCAVATION

GENERAL NOTES

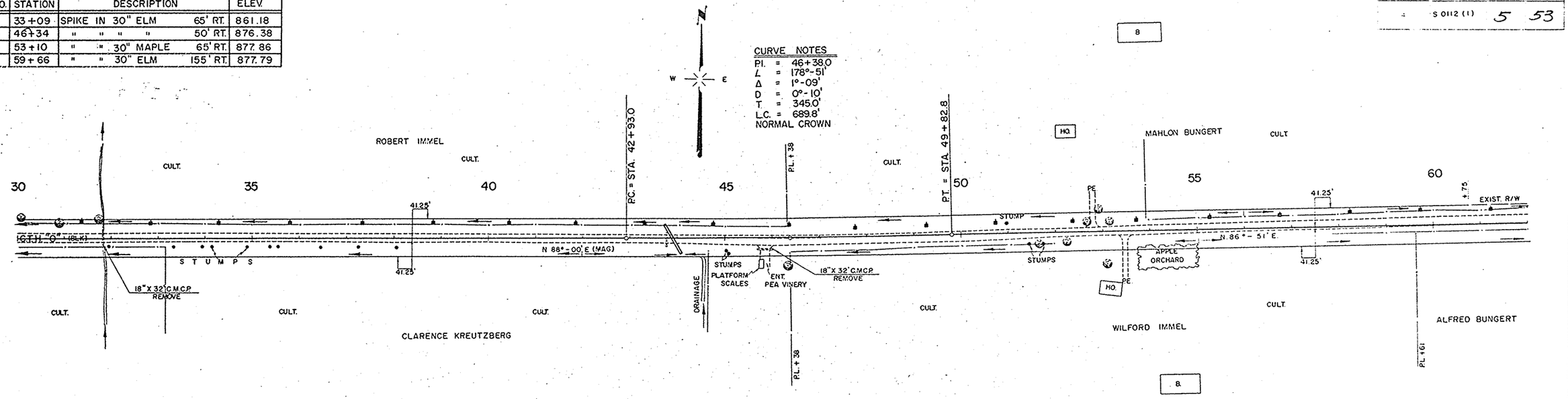
THE EXACT LOCATION OF F.E.'S, & P.E.'S SHALL BE DETERMINED BY THE ENGINEER IN THE FIELD.

CUBIC YARDS OF FILL AS SHOWN ON THE PLAN SHEETS PERTAINS TO EMBANKMENTS CONSTRUCTED FROM UNC. EXC. COMPUTED WITH A SHRINKAGE ALLOWANCE OF 25% TO 45% AND WITH BORROW EXC. COMPUTED WITH A SHRINKAGE ALLOWANCE OF 15%

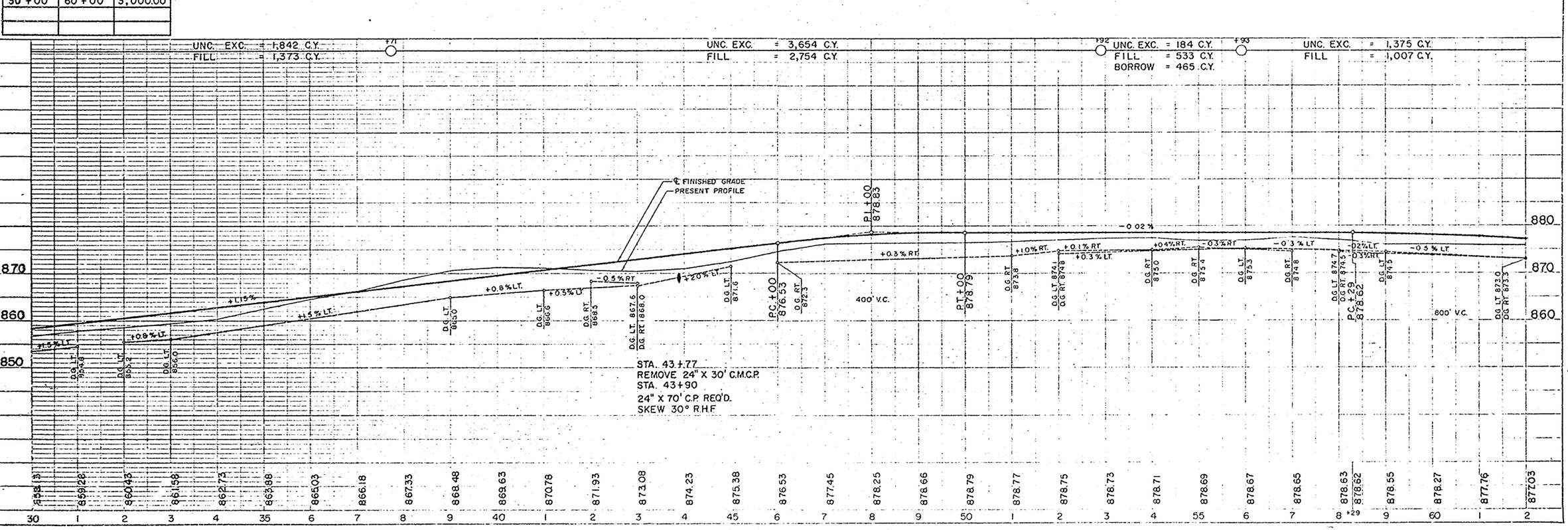
	S 0112 (1)	5	53

BENCH MARKS

NO.	STATION	DESCRIPTION	ELEV.
4	33+09	SPIKE IN 30" ELM 65' RT.	861.18
5	46+34	" " " " 50' RT.	876.38
6	53+10	" " 30" MAPLE 65' RT.	877.86
7	59+66	" " 30" ELM 155' RT.	877.79



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

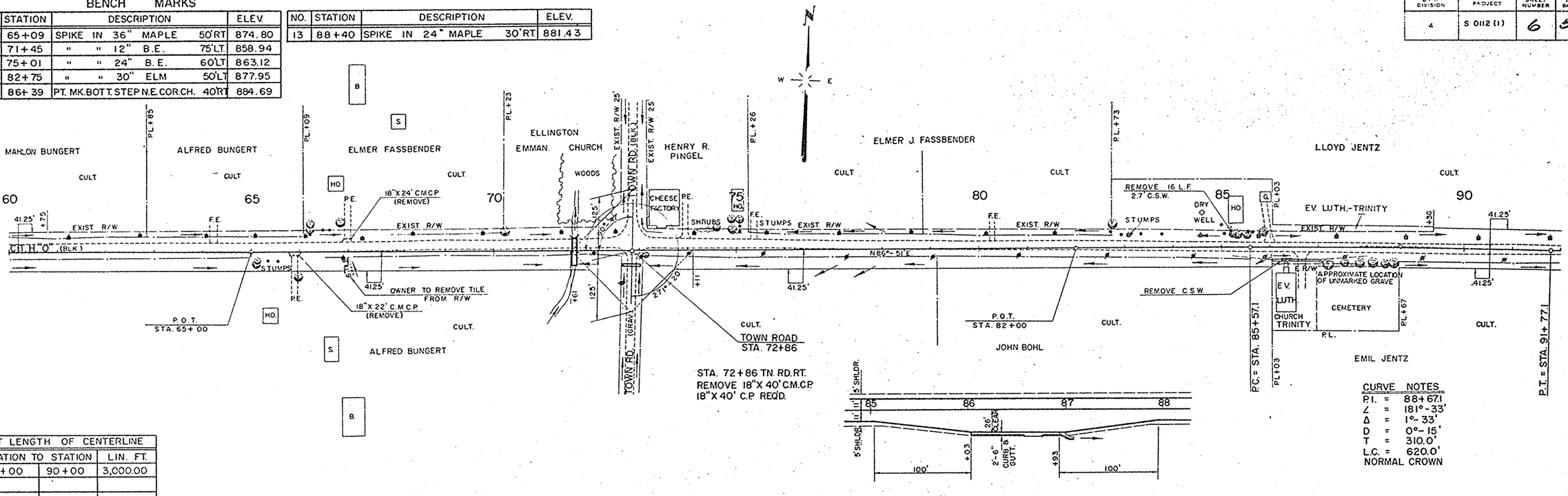


E & R DIVISION	PROJECT	SHEET NUMBER	TOTAL SHEETS
4	S 0112 (1)	6	53

BENCH MARKS

NO.	STATION	DESCRIPTION	ELEV.
8	65+09	SPIKE IN 36" MAPLE 50'RT	874.80
9	71+45	" " 12" B.E. 75'LT.	858.94
10	75+01	" " 24" B.E. 60'LT	863.12
11	82+75	" " 30" ELM 50'LT	877.95
12	86+39	PT. MK. BOTT. STEP N.E. COR. CH. 40'RT	884.69

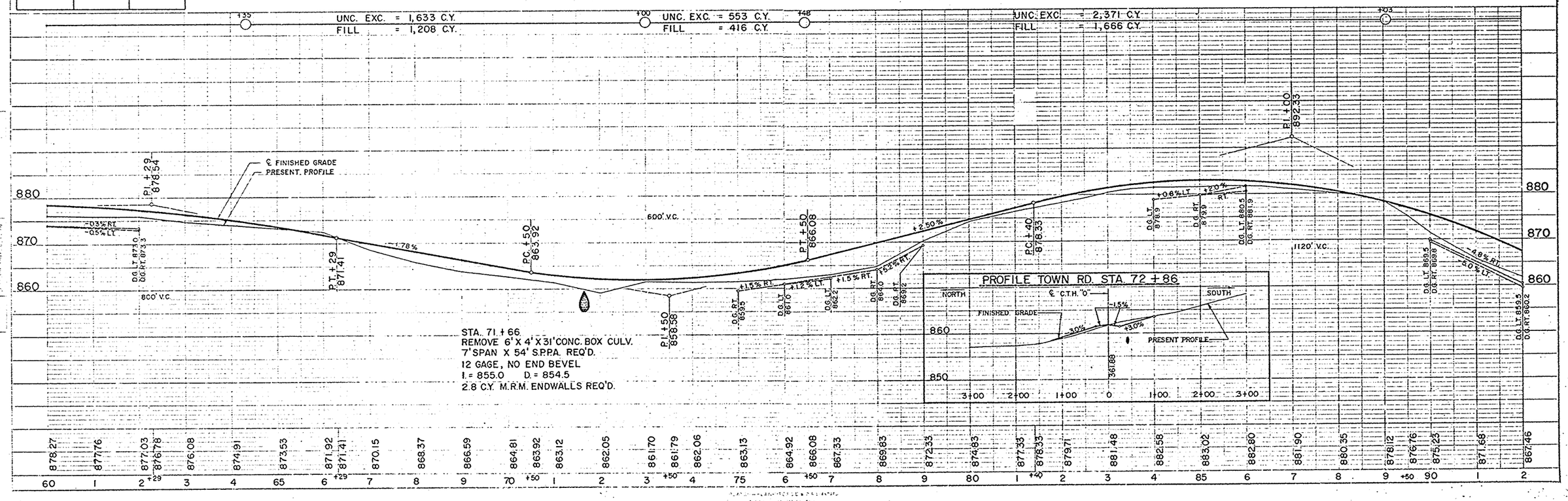
NO.	STATION	DESCRIPTION	ELEV.
13	88+40	SPIKE IN 24" MAPLE 30'RT.	881.43



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

CURVE NOTES

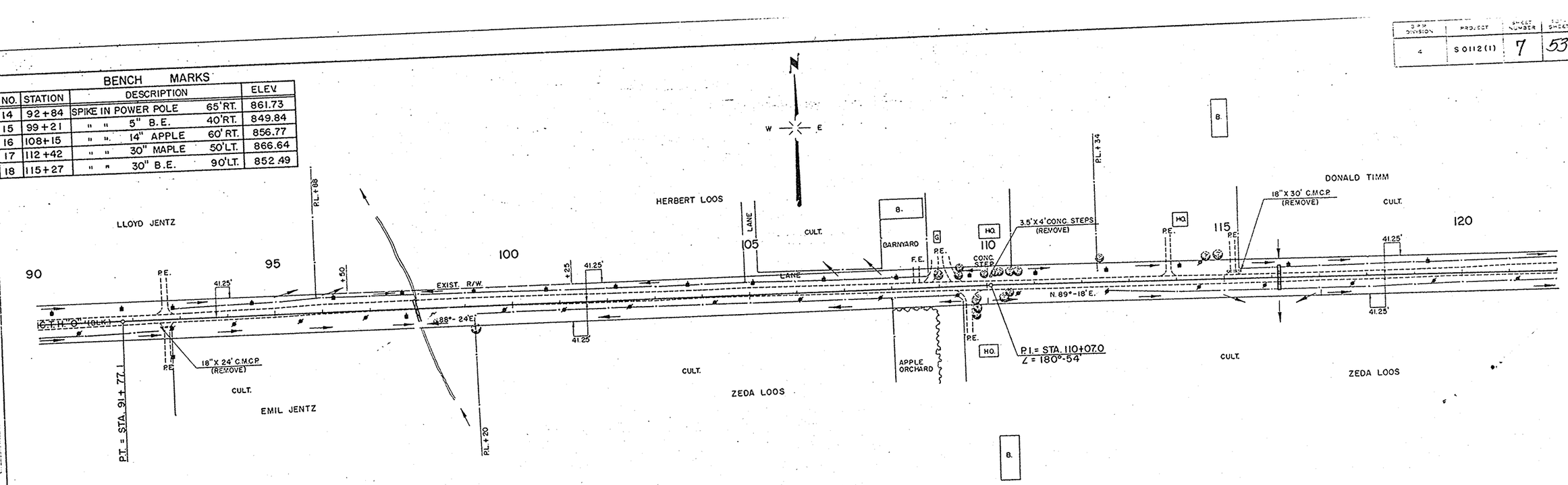
P.I. =	88+67.1
∠ =	181°-33'
Δ =	1°-33'
D =	0°-15'
T =	310.0'
L.C. =	620.0'
NORMAL CROWN	



S.P.M. DIVISION	PROJECT	SHEET NUMBER	NO. SHEETS
4	S 0112(1)	7	53

BENCH MARKS

NO.	STATION	DESCRIPTION		ELEV
14	92+84	SPIKE IN POWER POLE	65'RT.	861.73
15	99+21	" " 5" B.E.	40'RT.	849.84
16	108+15	" " 14" APPLE	60' RT.	856.77
17	112+42	" " 30" MAPLE	50'LT.	866.64
18	115+27	" " 30" B.E.	90'LT.	852.49



NET LENGTH OF CENTERLINE	
STATION TO STATION	LIN. FT.
90+00	120+00 3,000.00

UNC. EXC. = 353 C.Y.
FILL = 3,013 C.Y.
BORROW = 3,180 C.Y.

UNC. EXC. = 676 C.Y.
FILL = 491 C.Y.

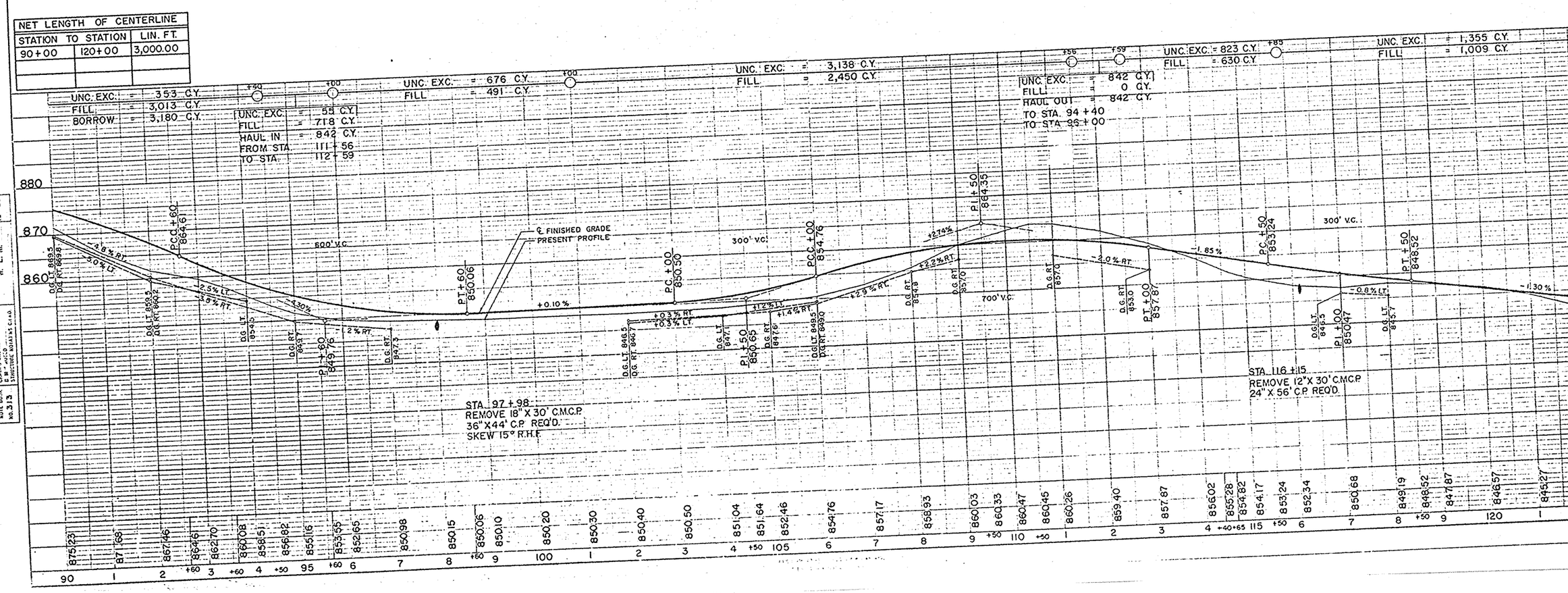
UNC. EXC. = 55 C.Y.
FILL = 718 C.Y.
HAUL IN = 842 C.Y.
FROM STA. 111+56
TO STA. 112+59

UNC. EXC. = 3,138 C.Y.
FILL = 2,450 C.Y.

UNC. EXC. = 842 C.Y.
FILL = 0 C.Y.
HAUL OUT = 842 C.Y.
TO STA. 94+40
TO STA. 96+00

UNC. EXC. = 823 C.Y.
FILL = 630 C.Y.

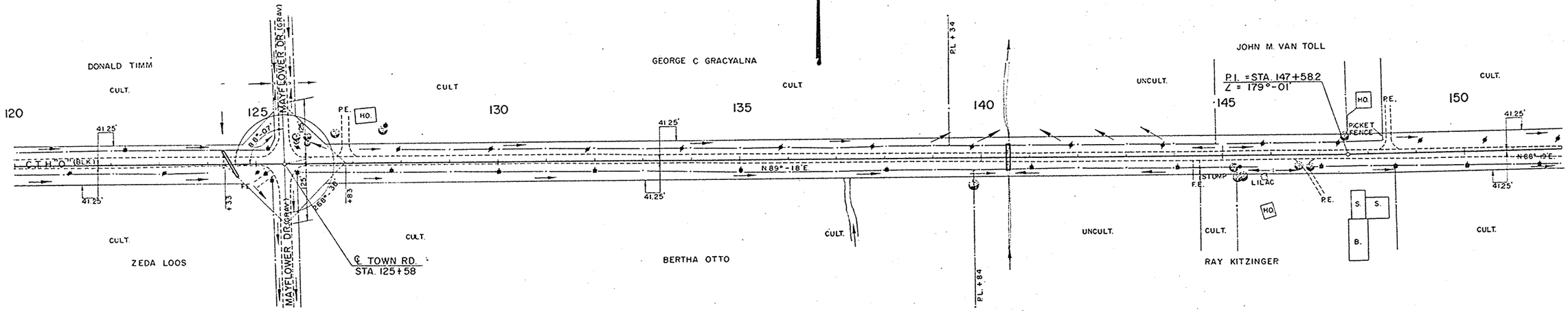
UNC. EXC. = 1,355 C.Y.
FILL = 1,009 C.Y.



STATE DESIGN	PROJECT	SHEET NUMBER	TOTAL SHEETS
4	S 0112(1)	8	53

BENCH MARKS

NO.	STATION	DESCRIPTION	ELEV.
19	126+63	SPIKE IN 12" APPLE 60' LT.	839.97
20	133+15	" " 14" ELM 100' LT.	826.19
21	139+85	" " 14" ASH 60' RT.	821.21
22	145+35	" " 8" POPLAR	820.84



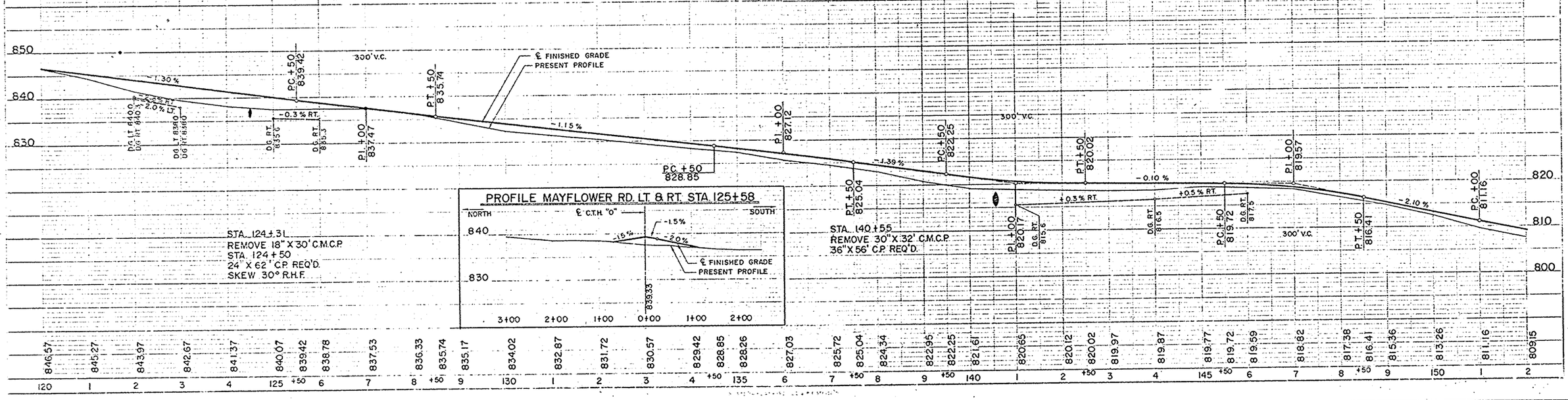
NET LENGTH OF CENTERLINE		
STATION TO STATION		LIN. FT.
120+00	150+00	3,000.00

+25 UNC. EXC. = 1,792 C.Y.
FILL = 1,336 C.Y.

+00 UNC. EXC. = 1,323 C.Y.
FILL = 978 C.Y.

+52 COMMON EXC. = 885 C.Y.
FILL = 682 C.Y.
ROCK EXC. = 27 C.Y.
USE: ROCK EXC.

+58 COMMON EXC. = 1,289 C.Y.
FILL = 983 C.Y.
ROCK EXC. = 29 C.Y.
USE ROCK EXC.



S 0112(1) 9 53

BENCH MARKS

NO.	STATION	DESCRIPTION	ELEV.
23	157+04	SPIKE IN 24" MAPLE 80' RT.	801.52
24	165+80	" " 20" " 60' RT.	787.38
25	170+25	" " 24" " 50' LT.	789.81
26	177+50	" " 20" B.E. 60' LT.	793.12

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

JOHN M. VAN TOLL
RAY KITZINGER
WM. ASHMAN
EARLIN ASHMAN
MARVIN W WILLENKAMP
54 L.F. STEEL PLATE BEAM GUARD
WM. J. GRIESBACH
ERV.N LAUTENSCHLAGER
P. WM. CONLON
MARVIN W. WILLENKAMP
FRANK ROY
RICE H. KAHLER
ABANDONED WELL
HAMPEL RD. (W-W)
BROOKSIDE SCHOOL DISTRICT # 2
SCHOOL ENT.
FLAG POLE
PLAYGROUND EQUIP.
BRIDGE WREATH
C.T.H. "O" (BLK.)
LILAC
STUMP
WELL
CULT.
UNCULT. SWAMPY
UNCULT. SWAMP
EXIST. R/W
EXIST. 3 STEEL S 3 N POST
TAV
G. HO
HO.
B.
PE.
FE.
PL.

24" X 14' C.M.C.P. (REMOVE)
12" X 16' C.M.C.P. (REMOVE)
15" X 18' C.M.C.P. (REMOVE)
12" X 22' BOILER PIPE (REMOVE)
6" X 16' CONC. CULV PIPE (REMOVE)

STA. 166+25 FE. LT.
24" X 32' C.P. REQ'D.

STA. 165 +70 PE. RT.
24" X 32' C.P. REQ'D.

STA. 169+45.5
℄ OF STRUCTURE

24' FT. SPAN STONE MASONRY BRIDGE IN PLACE (REMOVE UNDER CONTRACT NUMBER 1)

N 88°-18' E

41.25'
33'
902.09'

150 155 160 165 170 175 180

P.I.+05 P.I.+14 P.I.+75 P.I.+42 P.I.+06

BEAR CREEK

UNC. EXC. = 2,384 C.Y.
FILL = 1,805 C.Y.

UNC. EXC. = 754 C.Y.
FILL = 3,276 C.Y.
BORROW = 3,130 C.Y.

UNC. EXC. = 531 C.Y.
FILL = 372 C.Y.

820
810
800
790
780

℄ FINISHED GRADE
PRESENT PROFILE

2.10 %
1.50 %
2.0% RT & LT.
1.0 % RT & LT.
1.60 %
0.91 %
0.04 %
0.3% RT

300' V.C.
400' V.C.
430' V.C.
400' V.C.

P.C.+00 811.16
P.I.+00 805.76
P.T.+00 799.77
P.I.+50 808.00
P.C.+00 802.76
P.C.+50 790.97
P.T.+00 796.57
P.I.+65 787.53
P.T.+80 789.49
P.C.+00 793.31
P.I.+00 795.14
P.T.+00 795.06

D.G. RT. & LT. 805.5
D.G. RT. & LT. 801.5
D.G. RT. & LT. 800.5
D.G. RT. 789.5
D.G. RT. 791.6

HIGH W. WATER = 784.5
STREAMBED = 778.5

STA. 169+45.5 B-44-45
24' SPAN MASONRY ARCH IN PLACE
TO BE REMOVED
42' SPAN STEEL BEAM GIRDER
BRIDGE REQUIRED
28' CLEAR ROADWAY
SEE DRAWINGS-X-23674—X-23676A

PROFILE TOWN RD. LT STA. 179+14
SOUTH
℄ C.T.H. "O"
-1.50%
-2.00%
℄ FINISHED GRADE
PRESENT PROFILE
794.93
0+00 1+00 2+00 3+00 4+00

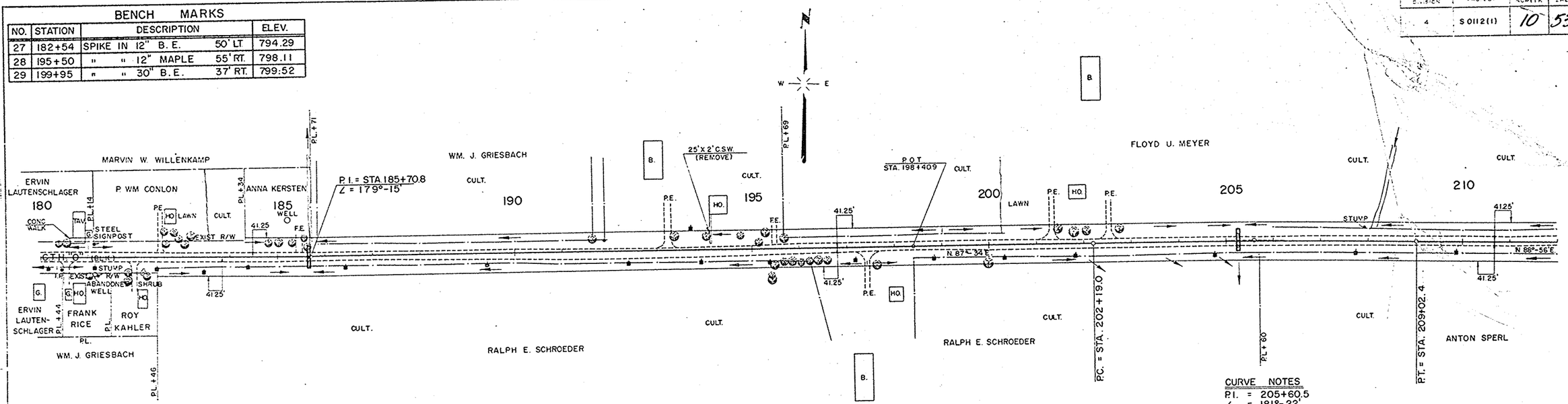
| | | |

C.P.R. DIVISION	PROJECT	SHEET NUMBER	TOTAL SHEETS
4	S 0112(1)	10	53

BENCH MARKS

NO.	STATION	DESCRIPTION		ELEV.
27	182+54	SPIKE IN 12" B.E.	50' LT.	794.29
28	195+50	" " 12" MAPLE	55' RT.	798.11
29	199+95	" " 30" B.E.	37' RT.	799.52

DATE 10-60 10-61 5-61
R.D. N. R.K. W. R.K.

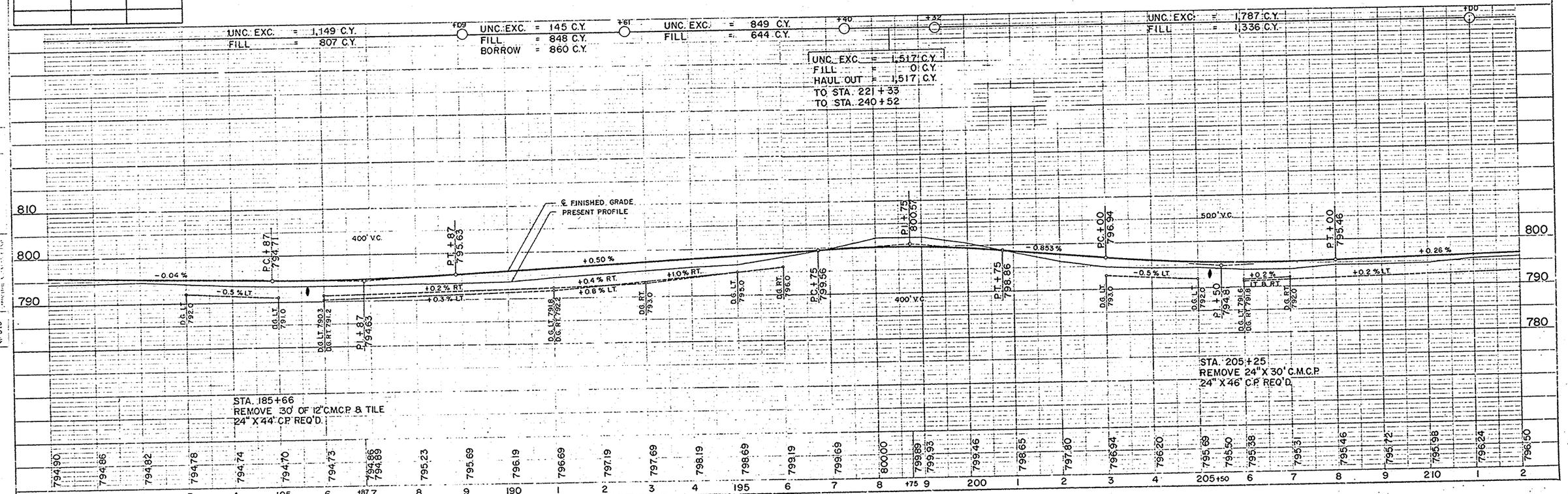


CURVE NOTES

P.I. = 205+60.5
∠ = 181°-22'
Δ = 1°-22'
D = 0°-12'
T = 341.5'
L.C. = 683.4'
NORMAL CROWN

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

DATE 8-60 10-60 10-60
R.D. N. W. E. W.



DATE 10-60 8-60 10-60
PROFILE SCALE: HORIZ. 1"=100' VERT. 1"=10' CADD FILE: S0112_PRO_PROFILE WORK BOOK No. 313

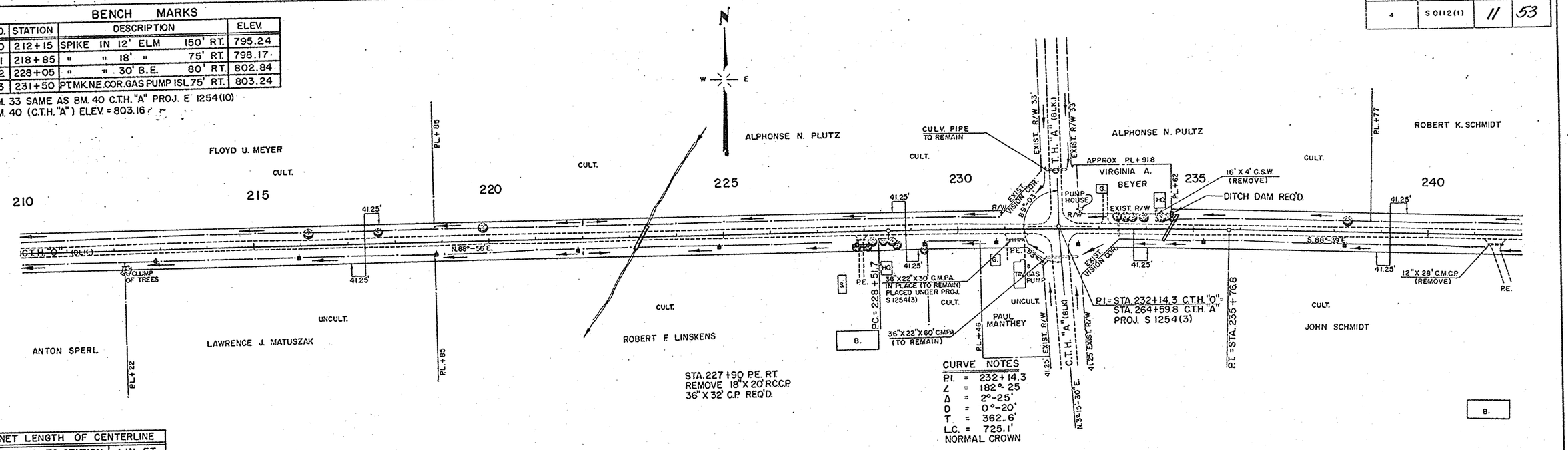
STATE DIVISION	PROJECT	SHEET NUMBER	TOTAL SHEETS
4	S 0112(1)	11	53

BENCH MARKS

STATION	DESCRIPTION	ELEV.
212+15	SPIKE IN 12" ELM 150' RT.	795.24
218+85	" " 18" " 75' RT.	798.17
228+05	" " 30" B.E. 80' RT.	802.84
231+50	PT MK NE COR GAS PUMP ISL 75' RT.	803.24

B.M. 33 SAME AS BM. 40 C.T.H. "A" PROJ. E 1254(10)
B.M. 40 (C.T.H. "A") ELEV. = 803.16

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

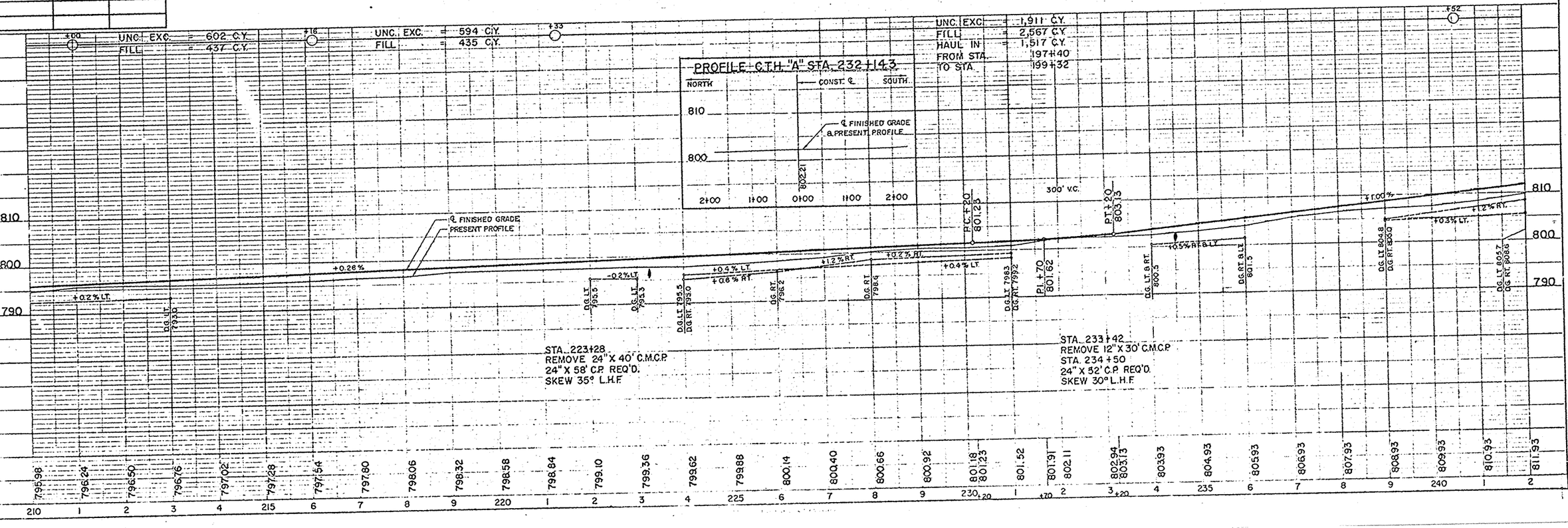


CURVE NOTES

P.I.	= 232+14.3
∠	= 182°-25
Δ	= 2°-25'
D	= 0°-20'
T.	= 362.6'
L.C.	= 725.1'

NORMAL CROWN

UNC. EXC.	= 602 C.Y.
FILL	= 437 C.Y.
UNC. EXC.	= 594 C.Y.
FILL	= 435 C.Y.
UNC. EXC.	= 1,911 C.Y.
FILL	= 2,567 C.Y.
HAUL IN	= 1,517 C.Y.
FROM STA.	197+40
TO STA.	199+32



FED. ROAD DIV. NO.	PROJECT	SHEET NUMBER	TOTAL SHEETS
4	S 0112(1)	12	53

BENCH MARKS

NO.	STATION	DESCRIPTION	ELEV.
34	242+05	SPIKE IN 36" MAPLE 100' RT.	815.27
35	251+90	" " 24" POPLAR 115' LT.	806.81
36	260+02	" " 14" STUMP 41' LT.	812.34

STA. 253+40 TN. RD. LT.
18"X60' C.P. REQ'D.

OBLITERATE OLD ROAD

12" X 20' C.M.C.P. (REMOVE)

12 CORNERS RD. (TRUNK)

4'X3'X41' CONC. BOX (REMOVE)

APPROX P.L.

P.L.+49

OBLIT OLD ROAD

EXIST. R/W

HAROLD BAUMANN

255

UNCULT.

260

ROBERT K. SCHMIDT

250

245

240

P.O.T. STA. 245+00

P.C. STA. 248+20.7

RUN CHANNEL DOWN DITCH

5 C.Y. RIP RAP REQ'D.

CULT.

HAROLD BAUMANN

UNCULT.

P.T. = STA. 258+70.7

265

CULT.

STUMP

15"X16' C.M.C.P. (REMOVE)

S. 46°-39' E.

270

EXIST. R/W

CULT.

ROBERT K. SCHMIDT

P.L.+59

S. 88°-39' E.

41.25'

12"X28' C.M.C.P. (REMOVE)

JOHN SCHMIDT

CURVE NOTES

P.I.	=	253+70.7
∠	=	222°-00'
Δ	=	42°-00'
D	=	4°-00'
T	=	550.0
L.C.	=	1050.0
S.E.	=	0.076 FT/FT.

NET LENGTH OF CENTERLINE

STATION TO STATION		LIN. FT.
240+00	270+00	3,000.00

+52 UNC. EXC. = 739 C.Y. FILL = 547 C.Y. +79

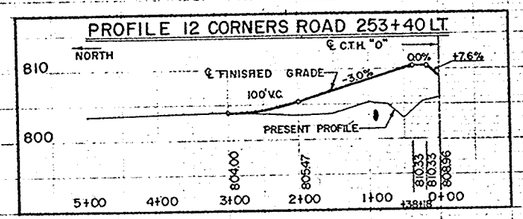
COMMON EXC. = 1,428 C.Y.
FILL = 1,098 C.Y.
ROCK EXC. = 52 C.Y.
USE ROCK EXC.

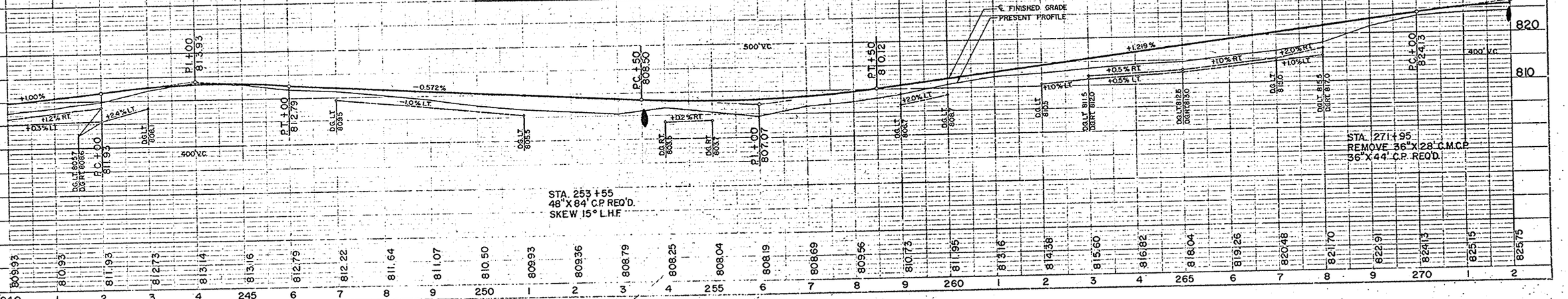
+90

COMMON EXC. = 1,464 C.Y.
FILL = 4,802 C.Y.
ROCK EXC. = 30 C.Y. USE ROCK EXC.
BORROW = 4320 C.Y.

+00 UNC. EXC. = 1,140 C.Y.
FILL = 843 C.Y. +00

PROFILE 12 CORNERS ROAD 253+40 LT.



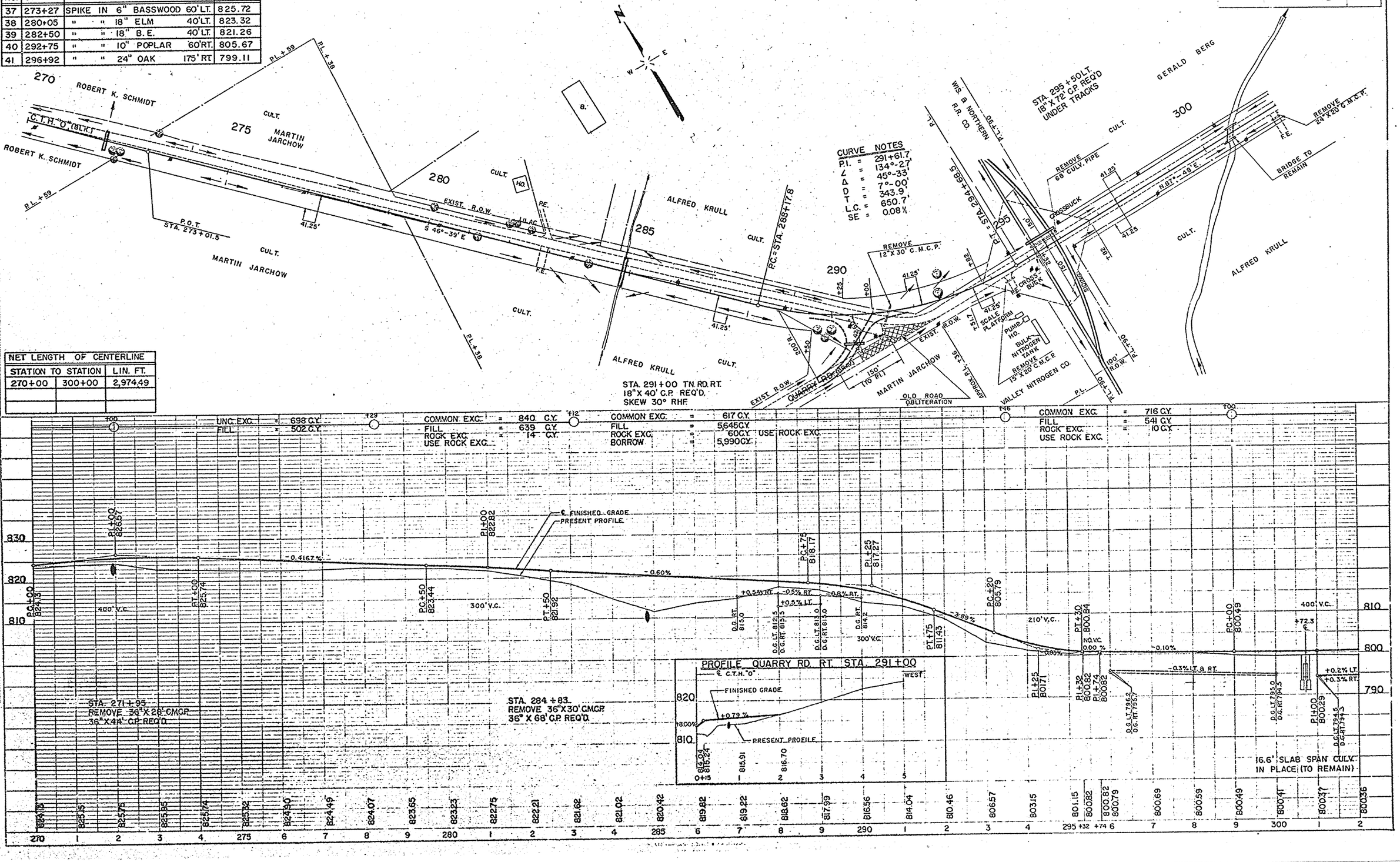

820
810
800
P.I. 4+00
813.93
P.C. 1+00
811.93
P.T. 2+00
812.79
P.C. 2+50
808.50
P.I. 3+00
807.07
P.T. 3+50
810.12
P.I. 4+00
826.57
P.C. 4+00
824.3
500' V.C.
400' V.C.
300' V.C.
+1.00%
-0.572%
-1.0% LT.
+2.4% LT.
+1.2% RT.
+0.3% LT.
+0.2% RT.
+1.219%
+1.0% LT.
+2.0% RT.
+1.0% RT.
+0.5% RT.
+0.5% LT.
+2.0% LT.
D.G. LT. 8081
D.G. LT. 8085
D.G. LT. 8082
D.G. LT. 8083
D.G. LT. 8084
D.G. LT. 8085
D.G. LT. 8087
D.G. LT. 8086

S.P.R. DIVISION	PROJECT	SHEET NUMBER	TOTAL SHEETS
4	S 0112 (1)	13	53

BENCH MARKS

NO.	STATION	DESCRIPTION	ELEV.
37	273+27	SPIKE IN 6" BASSWOOD 60'LT.	825.72
38	280+05	" " 18" ELM 40'LT.	823.32
39	282+50	" " 18" B.E. 40'LT.	821.26
40	292+75	" " 10" POPLAR 60'RT.	805.67
41	296+92	" " 24" OAK 175' RT.	799.11

NET LENGTH OF CENTERLINE		
STATION TO STATION		LIN. FT.
270+00	300+00	2,974.49

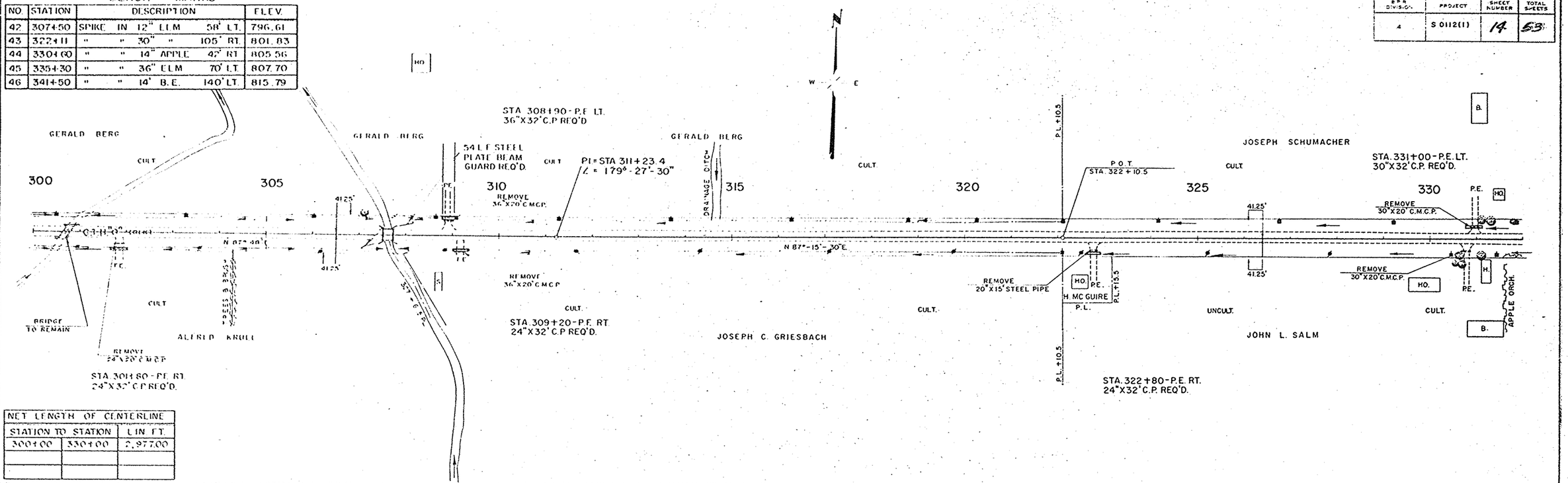


UNC. EXC.	= 698 C.Y.	COMMON EXC.	= 840 C.Y.	COMMON EXC.	= 617 C.Y.	COMMON EXC.	= 716 C.Y.
FILL	= 502 C.Y.	FILL	= 639 C.Y.	FILL	= 5,645 C.Y.	FILL	= 541 C.Y.
		ROCK EXC.	= 14 C.Y.	ROCK EXC.	= 60 C.Y. USE ROCK EXC.	ROCK EXC.	= 10 C.Y.
		USE ROCK EXC.		BORROW	= 5,990 C.Y.	USE ROCK EXC.	

BPR DIVISION	PROJECT	SHEET NUMBER	TOTAL SHEETS
4	S 0112(1)	14	53

BENCH MARKS

NO	STATION	DESCRIPTION	ELEV.
42	3074+50	SPIKE IN 12" ELM 58' LT.	796.61
43	3224+11	" " 30" " 105' RT.	801.83
44	3304+60	" " 14" APPLE 42' RT.	805.56
45	3354+30	" " 36" ELM 70' LT.	807.70
46	3414+50	" " 14" B.E. 140' LT.	815.79



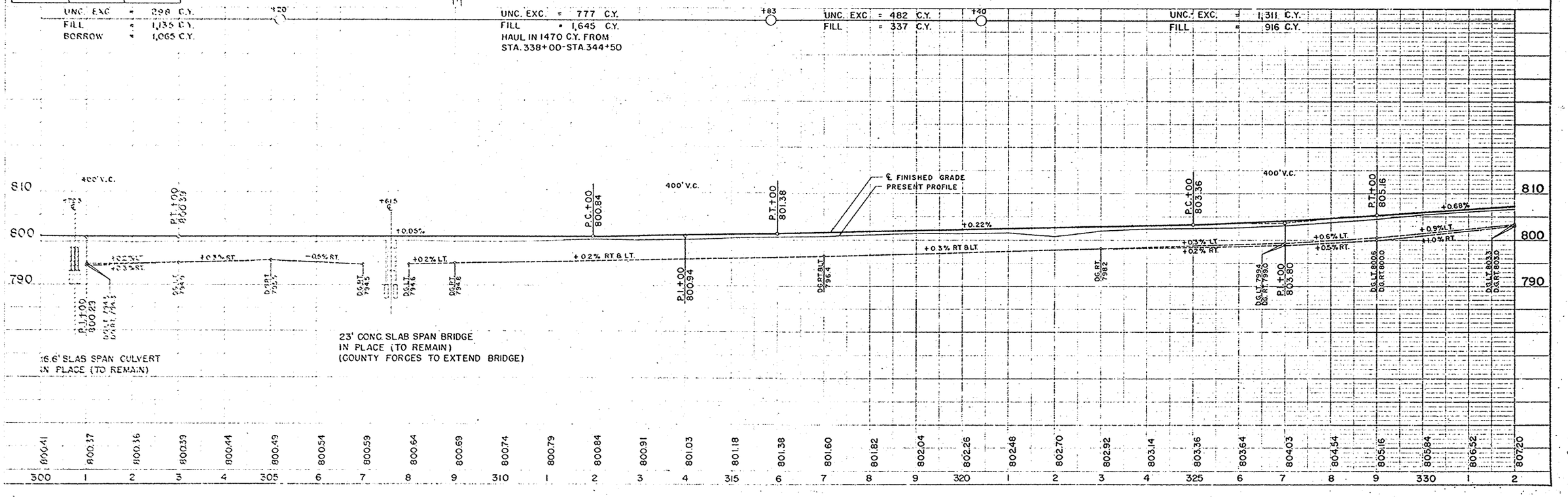
NET LENGTH OF CENTERLINE		
STATION TO STATION		LIN FT.
300+00	330+00	2,977.00

UNC. EXC. = 298 C.Y.
FILL = 1,135 C.Y.
BORROW = 1,065 C.Y.

UNC. EXC. = 777 C.Y.
FILL = 1,645 C.Y.
HAUL IN 1470 C.Y. FROM STA. 338+00-STA. 344+50

UNC. EXC. = 482 C.Y.
FILL = 337 C.Y.

UNC. EXC. = 1,311 C.Y.
FILL = 916 C.Y.



| | | |

BENCH MARKS

NO.	STATION	DESCRIPTION	ELEV.
44	330+60	SPIKE IN 14" APPLE 42' RT.	805.56
45	335+30	" " 36" ELM 70' LT.	807.70
46	341+50	" " 14" B. E. 140' LT.	815.79
47	348+74	" " 14" MAPLE 33' LT.	815.66

N

W — E

STA. 331+00 PE. LT
30" X 32" C.P. REQ'D.

JOSEPH SCHUMACHER
CULT.
JOHN L. SALM
CULT.
APPLE ORCH.
REMOVE 30" X 20' C.M.C.P.
REMOVE R/W POSTS
DRAINAGE DITCH
R/W
PL-27
PE.
HO.
H.
B.
330
335
340
345
347
348
4125'
N.87°-15' 30"E
KATHERINE GAINOR
CULT.
MARY E. DOWNEY
CULT.
SHRUB
EXIST R/W
EXIST. BARN
EXIST. S.
SILO
GAR. CONC.
TAV.
PORCH
WATER FAUC.
REMOVE 35' X 35' C.S.W.
182°-16'
90°-55'
272°-03'
4 C.S.W.
CEMETERY
100'
P.I. STA. 348+42.6
S.T.H. 47
R/W LINE (EXIST.)
2'-6" TYPE "O" CURB & GUTTER
6" HEIGHT
PORCH
SW (CONC)
STORE
&
HOUSE
TAVERN
CONC. WALK
GAS PUMPS
3% SLOPE
EAST WAUPACA (ELKHORN) JCT. (USH 12) S.J.R. / C. S.T.H. 47

NET LENGTH OF CENTERLINE		
STATION TO STATION		LIN. FT.
330+00	348+28	1828.00

UNC. EXC. = 474 C.Y.
FILL = 348 C.Y.

UNC. EXC. = 1,704 C.Y.
FILL = 171 C.Y.
HAUL OUT = 1,470 C.Y.
TO STA 305+20
TO STA 315+83

UNC. EXC. = 469 C.Y.
FILL = 362 C.Y.

STA. 348+28 END OF PROJECT S 0112 (1)

STA. 345+57
REMOVE 24" X 30' C.M.C.P.
24" X 58' C.P. REQ'D.

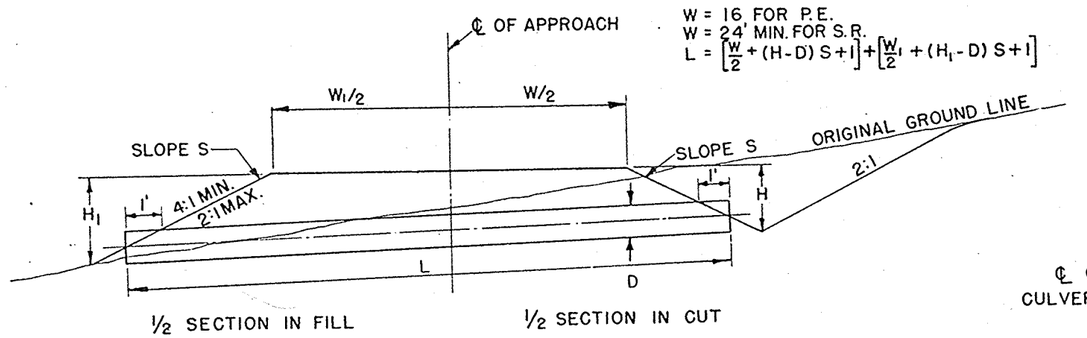
℄ FINISHED GRADE
PRESENT PROFILE

P.I. 0+00 814.00
P.I. 1+28 815.44
P.C. 0+50 812.98
P.T. 1+50 814.34
300' V.C.
NO V.C.

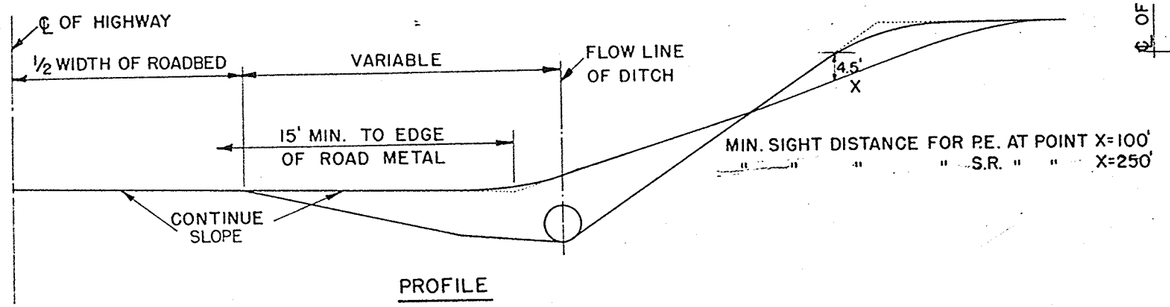
+0.68%
+0.09% LT
+0.04% LT
+10% RT & LT
+10% LT
+0.3% RT
+0.6% LT
+10% RT
+0.23%
+3.8% RT
+10% LT

D.G. LT 805.5
D.G. RT 806.5
D.G. LT 806.5
D.G. RT 806.5
D.G. RT 808.0
D.G. LT 808.5
D.G. RT 809.0
D.G. RT 809.6
D.G. LT 811.5
D.G. LT 811.9
D.G. RT 811.5
D.G. RT 811.0
D.G. LT 810.4
D.G. RT 810.5
D.G. RT 810.8
D.G. RT 811.30
D.G. RT 811.33

| | | |

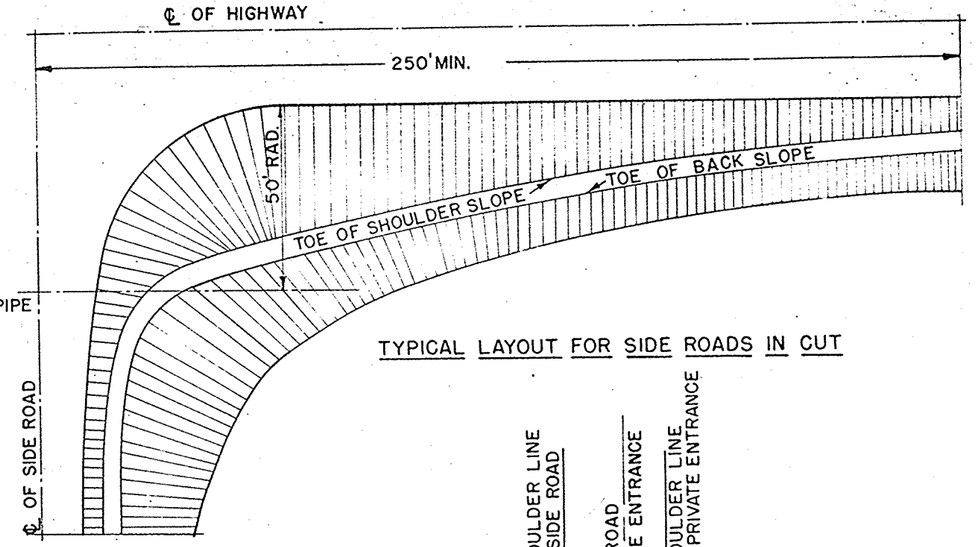


TYPICAL CROSS SECTION

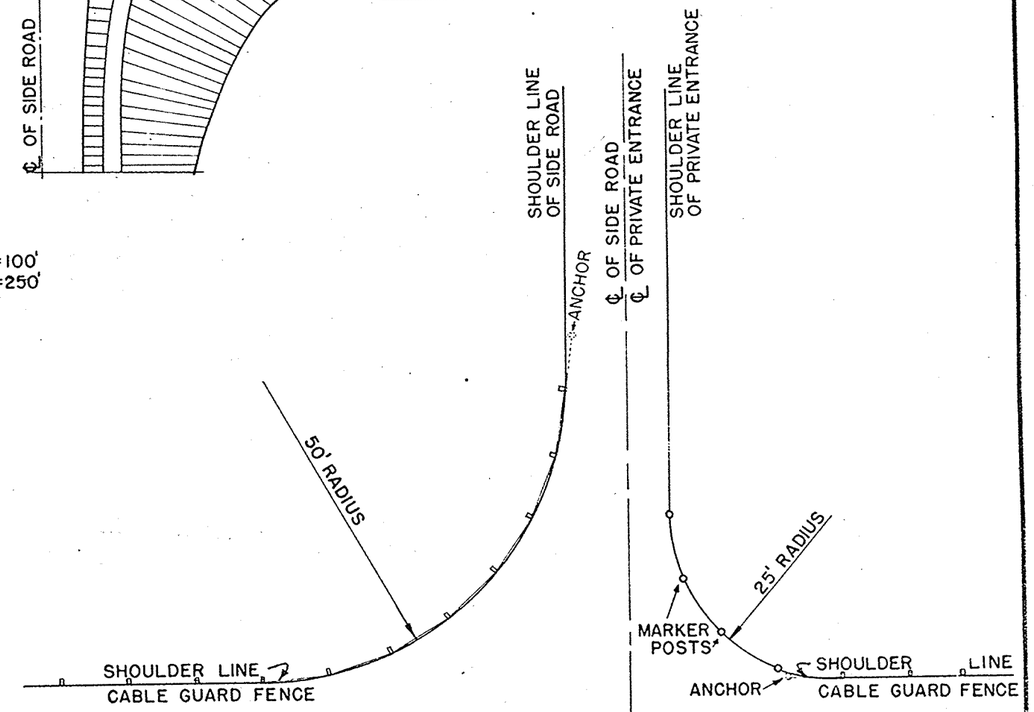


PROFILE

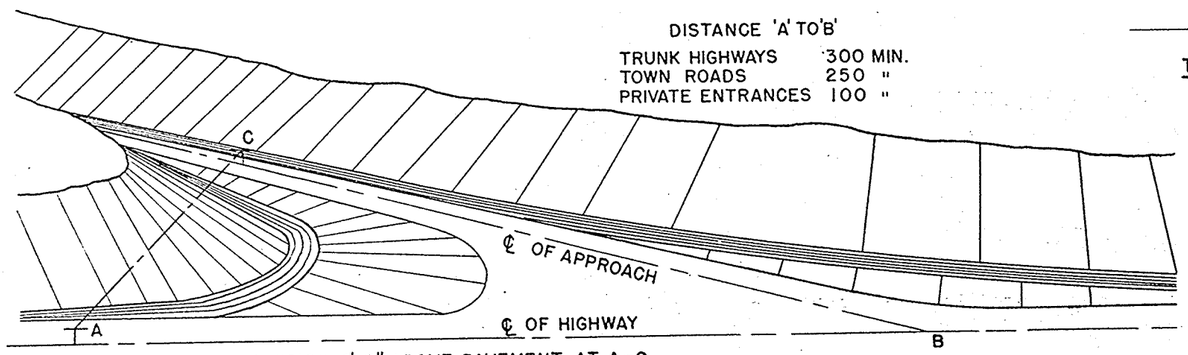
MIN. SIGHT DISTANCE FOR P.E. AT POINT X=100'
" " " " S.R. " " X=250'



TYPICAL LAYOUT FOR SIDE ROADS IN CUT



TYPICAL LAYOUT FOR PRIVATE ENTRANCES AND SIDE ROADS IN HIGH FILLS



LINE OF VISION 4'-6" ABOVE PAVEMENT AT A-C

DETAILS OF PRIVATE ENTRANCE AND SIDE ROAD APPROACHES

STATE HIGHWAY COMMISSION OF WISC.

RECOMMENDED FOR APPROVAL:

Frank Crane
DESIGN ENGINEER

DATE

A. R. Luke
CONSTRUCTION ENGINEER

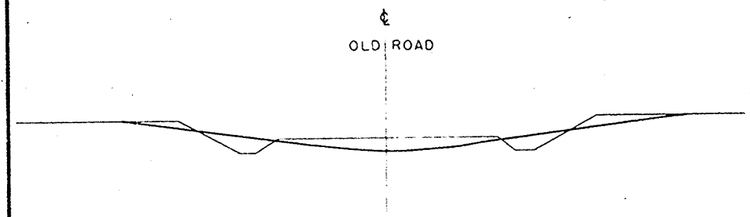
APPROVED:-

DRAWN C.A.L.
CHECKED n.f.c.

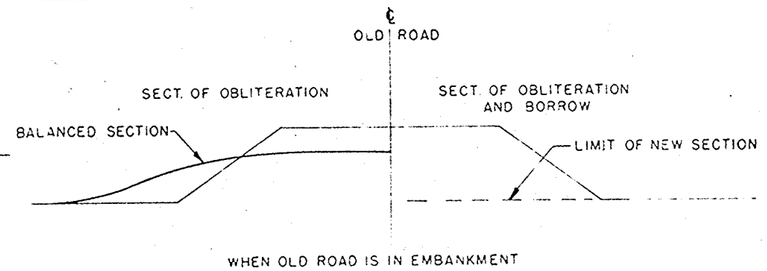
DATE

STATE HIGHWAY ENGINEER

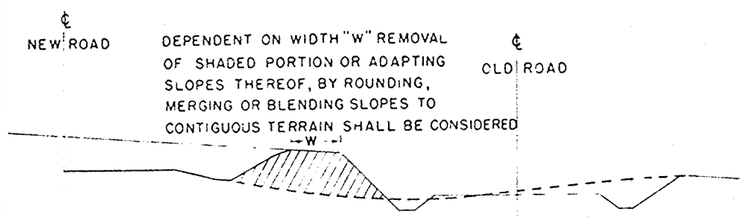
1-3.1.1



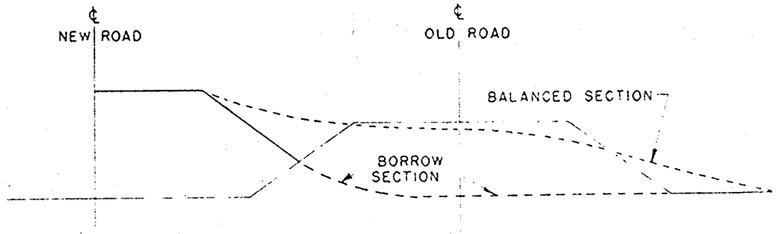
WHEN REMOVED FROM NEW CONSTRUCTION AND WITHIN SIGHT OF NEW PROJECT.



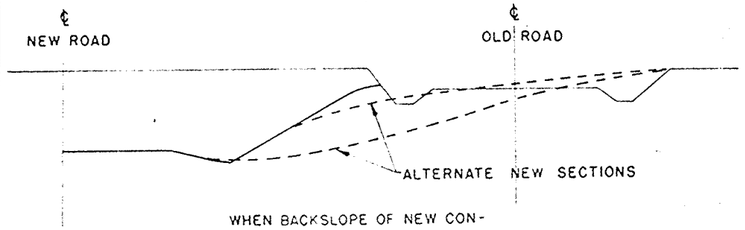
WHEN OLD ROAD IS IN EMBANKMENT AND REMOVED FROM NEW CONSTRUCTION BUT WITHIN SIGHT OF NEW PROJECT.



WHEN TOP OF BACKSLOPE OF NEW CONSTRUCTION IS IN CLOSE PROXIMITY OF TOP OF BACKSLOPE OF OLD ROAD.



WHEN BOTH NEW AND OLD ROAD ARE IN EMBANKMENT AND CONSTRUCTION IS CLOSELY ADJACENT.



WHEN BACKSLOPE OF NEW CONSTRUCTION EXTENDS INTO CONSTRUCTION LIMITS OF OLD ROAD

CONSTRUCTION NOTES

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

OBLITERATING OLD ROAD

STATE HIGHWAY COMMISSION OF WISC.

RECOMMENDED FOR APPROVAL

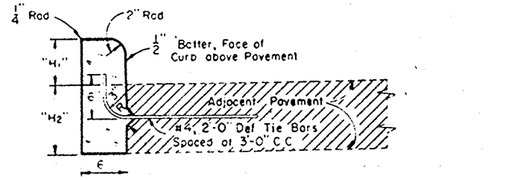
Frank Graves
DESIGN ENGINEER

DATE
CONSTRUCTION ENGINEER

APPROVED

OCT. 1, 1945 E. G. Rustgaard
DATE STATE HIGHWAY ENGINEER

1-4.1.1

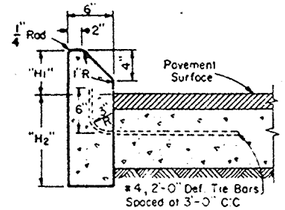


* Tie Bar recess positioned in reverse when Concrete Curb is constructed first

"H1" = 9" max and 3½" min. and shall be 6" unless otherwise shown on the plans
"H2" = Same as adjacent pavement thickness for rigid pavement
"H2" = 12" For other than rigid pavement (Tie Bars Omitted)

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

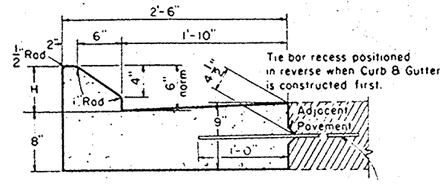
CONCRETE CURB



"H1" = 9" Max and 4" min and shall be 6" unless otherwise shown on plans
"H2" = 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" = 9" max and 4" min & shall be 6" unless otherwise shown on the plans.

#4, 2'-0" Def Tie Bars or alternate Bolt Type instal. may be used, spaced at 3'-0" C.C

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

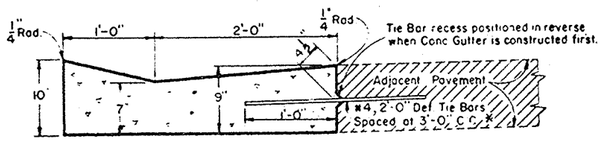
CONCRETE CURB AND GUTTER
(Mountable Type)

GENERAL NOTES

Details of construction and materials not shown on this drawing shall conform to the pertinent requirements of the Standard Specifications Sections 2301 & 2521, and the applicable Special Provisions.

JOINTS -

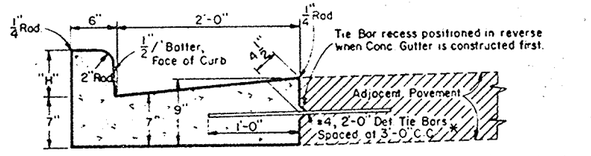
Joints shall not be sealed in concrete curb, concrete gutter, concrete curb and gutter, or concrete surface drains.



* 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

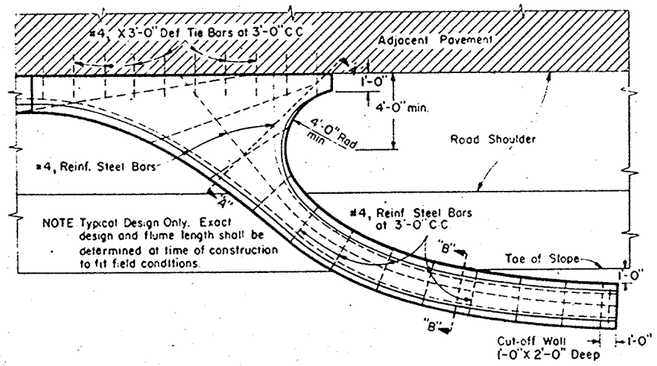


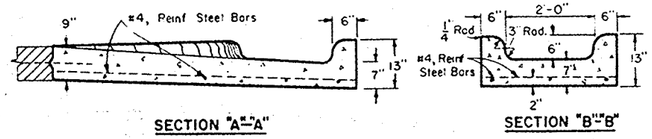
"H" = 9" Max., 3½" Min. and shall be 6" unless otherwise shown on the plans.

* 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)





SECTION "A"-"A" SECTION "B"-"B"

CONCRETE INLET OR DISCHARGE FOR CURB AND GUTTER SURFACE DRAIN

BID ITEMS -

No. 2301-10 Concrete Surface Drains _____ Cu. Yds
No. 2521-1 Concrete Curb (Type) _____ Lin Ft
No. 2521-6 Concrete Gutter (Type) _____ Lin Ft
No. 2521-11 Concrete Curb and Gutter (Type and Size) _____ Lin. Ft

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

STATE HIGHWAY COMMISSION OF WISCONSIN

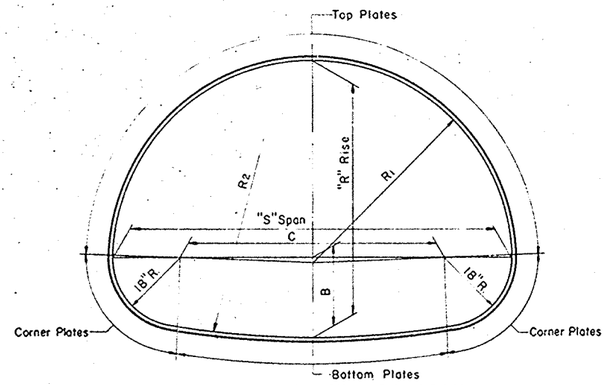
RECOMMENDED FOR APPROVAL

5/5/59 DATE — J. S. Pilf ENGINEER OF DESIGN

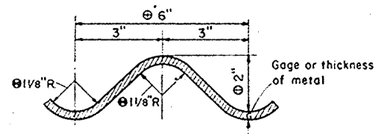
APPROVED:

5/5/59 DATE — E. C. Ruettiger STATE HIGHWAY ENGINEER

PLATE NO. 3-1.1.6



STRUCTURAL PLATE PIPE ARCH



DETAIL OF METAL CORRUGATIONS

CORRUGATION DIMENSION TOLERANCES

⊖-Tol. 1/4"

⊕-Tol. ± 1/8"

⊜-Min. 1 1/16"

GENERAL NOTES

Details of construction not shown on this drawing shall conform to the pertinent requirements of the Standard Specifications, Sections 2412 and 3116 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 ℄ 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"/14 or a minimum of 6" cushion between pipe and pavement.

EMBANKMENT—Maximum for ℄ 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.

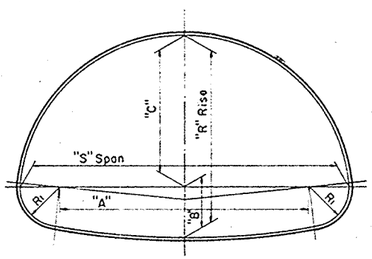
Strutting of Pipe Arches will not be required during construction unless specifically called for on the plans or the applicable Special Provisions.

TABLE OF PROPERTIES
STRUCTURAL PLATE PIPE ARCH

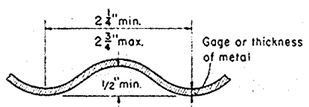
SPAN Nominal Size	Dimensions taken from inside crests of corrugations							Table of Metal Gages — Minimum Acceptable														
	Fabricators Size Min. Acceptable	R/S Ratio	Area Sq.Ft.	B In.	C In	R1 In.	R2 In.	H-20 LOADING Depth of Embankment in Feet														
	"S" Span — "R" Rise							1	2	3	4	5	6	7	8	9	10	11	12	13	14	15
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	10	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	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	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	895	254.9	3	5	5	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, Sections 2411 and 3116 and the applicable Special Provisions.

TOLERANCES

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

EMBANKMENT—Minimum for ℄ 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"/14 or a minimum of 3" cushion between pipe and pavement.

EMBANKMENT—Maximum for ℄ 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

CORRUGATED METAL PIPE ARCH									Round Pipe of Approx. Equal Periphery	
Gage (Min. Acceptable)	"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

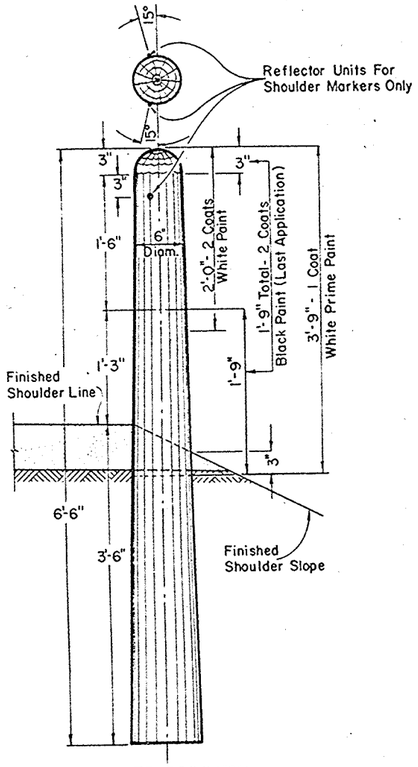
STATE HIGHWAY COMMISSION OF WISCONSIN

RECOMMENDED FOR APPROVAL:

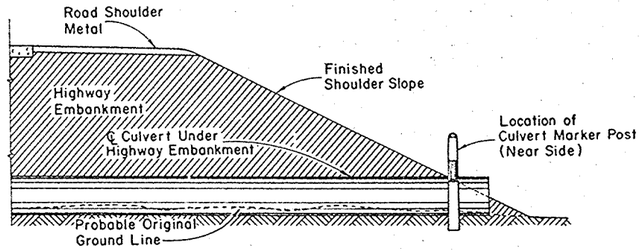
5-27-57 (DATE) — J. L. Pitt (ENGINEER OF DESIGN)

APPROVED:

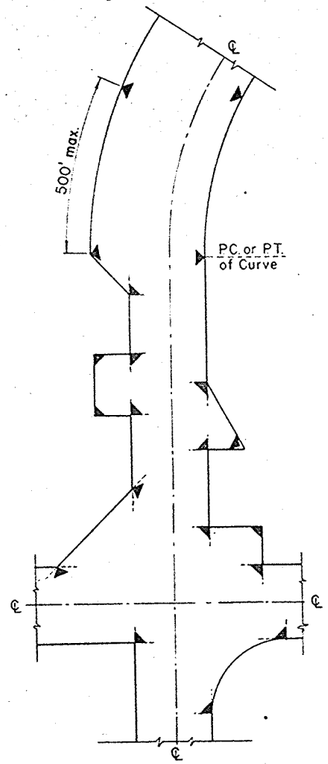
5/28/57 (DATE) — E. C. Rocttiger (STATE HIGHWAY ENGINEER)



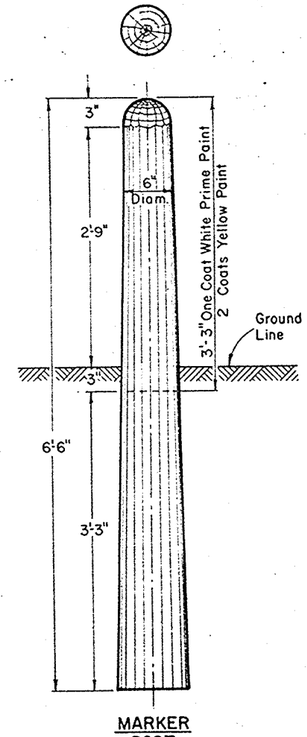
MARKER POST FOR ROAD SHOULDERS AND CULVERTS



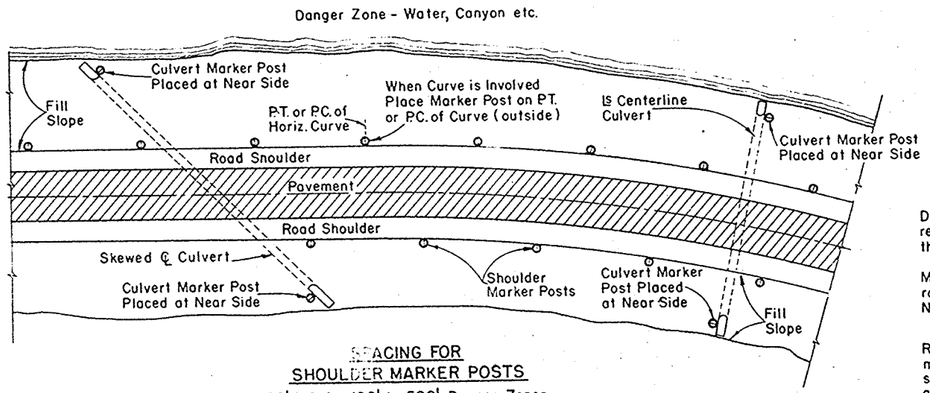
SECTION
SHOWING RELATIVE LOCATION OF
MARKER POST FOR CULVERTS



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



MARKER POST FOR RIGHT OF WAY



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
AND CULVERT MARKER POSTS

MARKER POSTS FOR ROAD SHOULDERS AND CULVERTS

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 Sections 2523, 4124 and 4125 and the applicable Special Provisions.

All posts for Road Shoulder Markers, Culvert Markers and Right of Way Markers are identical except for Painting and Reflector Units. All Posts shall be round and untreated and shall be either Northern White Cedar, Southern Yellow Pine, Norway Pine, White Pine or Jack Pine.

MARKER POSTS FOR RIGHT OF WAY

Right of Way Marker Posts shall be erected in advance of Grading Operations. Posts may be shaped and painted prior to erection. Any damaged areas occurring to paint surface during erection or other subsequent operations must be repainted prior to acceptance.

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 shall be staked in the field by the Engineer.

Reflector Units for Right of Way Marker Posts will not be required.

REFLECTOR UNITS

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. Reflector Units shall be installed in Road Shoulder Marker Posts only.

BID ITEMS

No. 2523-5 Marker Posts.....Each
No. 2523-6 Marker Posts for Right of Way.....Each

MARKER POSTS & MARKER POSTS FOR RIGHT OF WAY

STATE HIGHWAY COMMISSION OF WISCONSIN

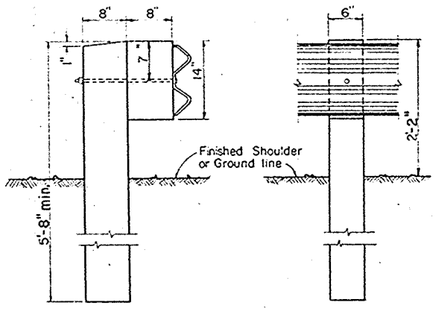
RECOMMENDED FOR APPROVAL

5/16/57 DATE — J. S. Pelt, ENGINEER OF DESIGN

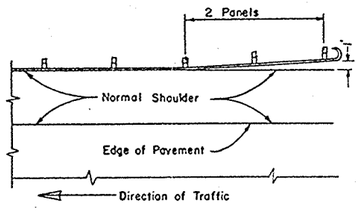
APPROVED:

5/16/57 DATE — E. L. Rettinger, STATE HIGHWAY ENGINEER

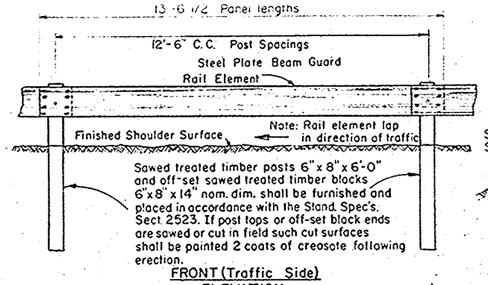
PLATE NO. 7-1.3.3.



DETAIL OF POST & OFF-SET BLOCK

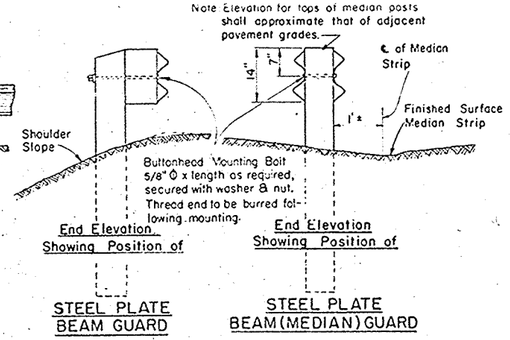


LOCATION DIAGRAM FOR STEEL PLATE BEAM GUARD INTERMEDIATE SECTIONS



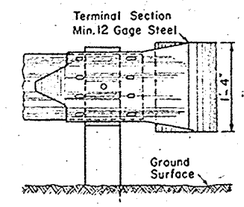
FRONT (Traffic Side) ELEVATION

STEEL PLATE BEAM GUARD OR STEEL PLATE BEAM (MEDIAN) GUARD

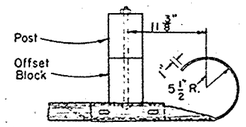


STEEL PLATE BEAM GUARD

STEEL PLATE BEAM (MEDIAN) GUARD

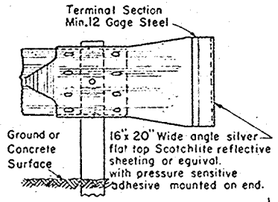


FRONT (Traffic Side) VIEW

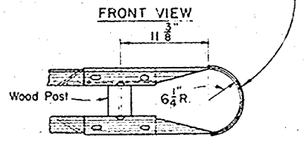


PLAN VIEW

TERMINAL SECTION DETAILS FOR STEEL PLATE BEAM GUARD



FRONT VIEW



PLAN VIEW

TERMINAL SECTION DETAILS FOR STEEL PLATE BEAM (MEDIAN) GUARD

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.

The Steel Plate Beam Guard or (Median) Guard shall consist of steel plate made of open hearth or electric furnace steel.

Plates shall be blanked to proper shape, fabricated and ready for assembly when received in the field. The plates shall be true to plan dimensions and of uniform section. Warped or deformed plates will be rejected. The edges of the plates shall be rolled or rounded so that they present no sharp edges. All connections and splices shall be formed with flat round headed bolts, or similar detail sothat no appreciable projection will be presented on the road side of the guard. The rail element shall be spliced by lapping in the direction of traffic or by butt joint with splice plate. Plate ends in lap splices or plate ends and splice plate in butt splices shall make contact throughout the entire area of the splice.

TESTS

The elongation of a 2 inch specimen of the steel plate used in the rail element shall be not less than 12 percent tested in tension. The minimum tensile strength of the rail element shall, when tested in conjuntion with splices and end connections, be 80,000 lbs. The rail element when loaded as a simple beam, freely supported at each end on 12'-0" centers shall support a concentrated load at span center through a flat surface 3 inches long, in accord with the following –

BEAM ELEMENT

Traffic Face up		Traffic Face Down	
Load	Maximum Deflection	Load	Maximum Deflection
1500 lb.	2.0 in.	1200 lb.	2.0 in.
2000 lb.	3.0 in.	1600 lb.	3.0 in

GALVANIZED

The steel plate beam element and terminal sections shall be furnished galvanized. The spelter coating of the base metal sheets shall be in accordance with A.A.S.H.O Designation: M 36

The beam element may be galvanized before or after fabrication.

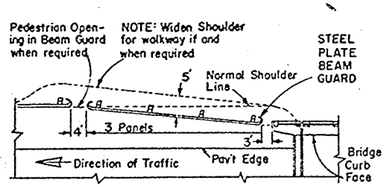
Bolts, nuts, and washers shall be furnished galvanized in accordance with A.S.T.M. Designation: A153, Class C.

CIRCULAR STEEL PLATE ELEMENT

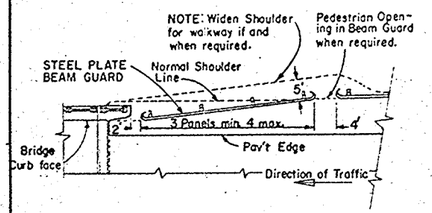
Steel plate beam elements for beam guard or (median) guard for radii of 20 ft. to 150 ft. shall be shop-curved. Steel plate beam elements shall be bent to true circular curvature, void of kinks. Kinks shall be cause for rejection. Steel plate beam elements shall have a minimum bending radius of 20 feet.

MEASUREMENT & PAYMENT

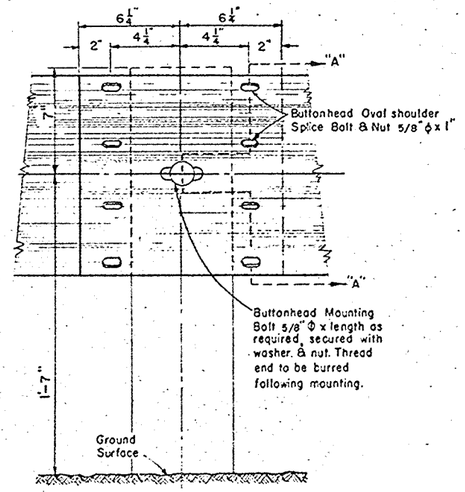
The items of Steel Plate Beam Guard and Steel Plate Beam (Median) Guard shall be measured and paid for at the contract unit price per linear foot, measured in place by length in linear feet from end to end - out to out of terminal sections, which price shall be full compensation for furnishing and placing all materials and performing all work to completion in accordance with the Stand. Spec's. Sect. 2523, the applicable Plans and Special Provisions.



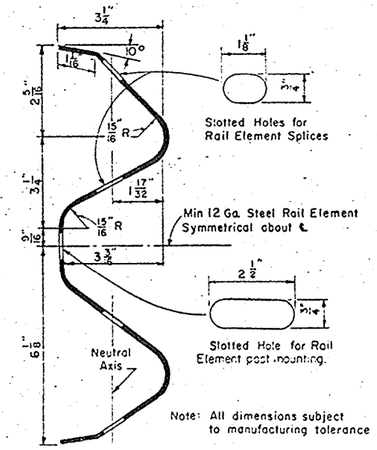
LOCATION DIAGRAM FOR STEEL PLATE BEAM GUARD AT BRIDGE EXITS



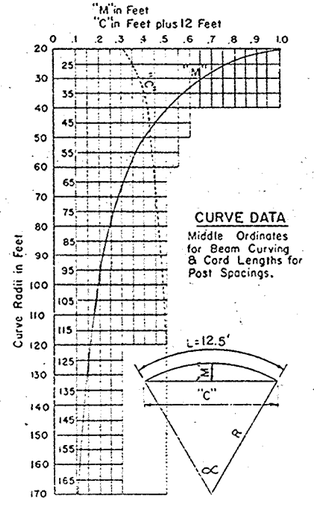
LOCATION DIAGRAM FOR STEEL PLATE BEAM GUARD AT BRIDGE APPROACHES



RAIL ELEMENT SPLICING & POST MOUNTING DETAILS



SECTION "A A"
RAIL ELEMENT SECTION
(Min 12 GAGE STEEL)



CURVE DATA

Middle Ordinates for Beam Curving & Cord Lengths for Post Spacings.

BID ITEMS

No. 2523-3 Steel Plate Beam Guard ..... Lin. Ft.

No. 2523-4 Steel Plate Beam(Median) Guard ..... Lin Ft

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

STATE HIGHWAY COMMISSION OF WISCONSIN

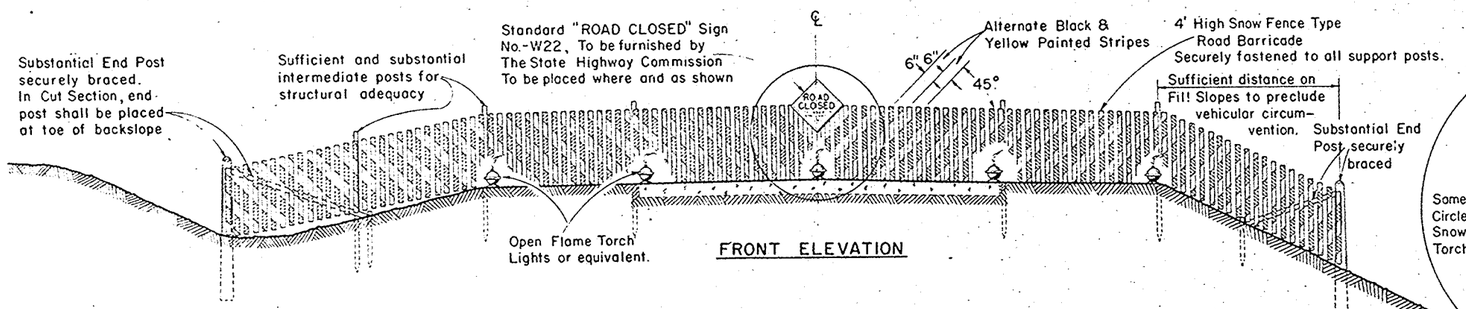
RECOMMENDED FOR APPROVAL:

4/24/61 DATE — J. S. Pilz ENGINEER OF DESIGN

APPROVED:

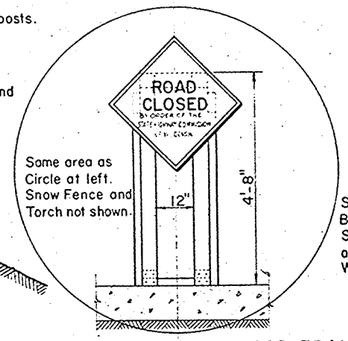
4/24/61 DATE — E. C. Rustigan STATE HIGHWAY ENGINEER

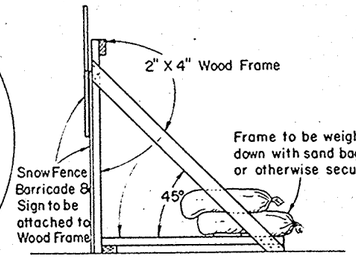
7-2 A 8



STANDARD ROAD CONSTRUCTION BARRICADE

SNOW FENCE TYPE-"A"





WOOD FRAME SUPPORT AT ℄
FOR SNOWFENCE TYPE BARRICADE
When Barricade is Erected on Rigid Type Surfacing

GENERAL NOTES

The Contractor shall construct, place and maintain barricades as shown on this drawing and as required by the Standard Specifications Section 1107 for the duration of the project. Barricades shall be painted and structurally maintained for maximum visibility at all times.

Provision shall be made in the construction of barricades to provide for ingress and egress for local access as may be required.

ALTERNATE DESIGNS

Contractors may submit to the Engineer for approval, designs for Barricades other than shown on this drawing, and upon the Engineer's approval may be used as alternates.

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.

CONSTRUCTION BARRICADE

STATE HIGHWAY COMMISSION OF WISCONSIN

RECOMMENDED FOR APPROVAL:

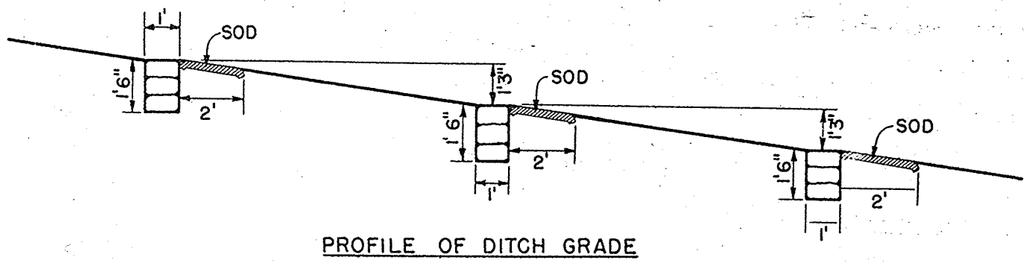
6/2/55 DATE — J. L. Pelt ENGINEER OF DESIGN

APPROVED:

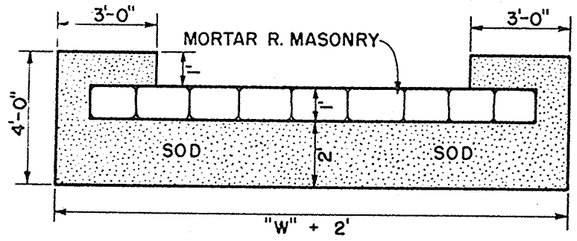
6/2/55 DATE — E. C. Ruettiger STATE HIGHWAY ENGINEER

7-4.1.2

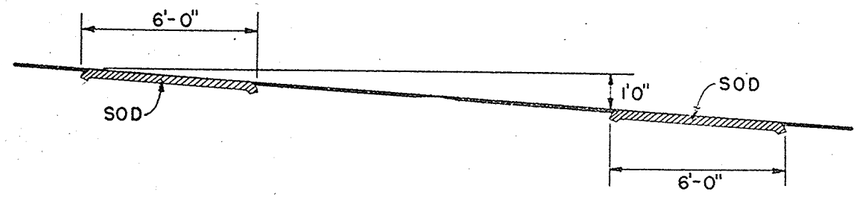
PLATE NO 7.4.1.2



PROFILE OF DITCH GRADE

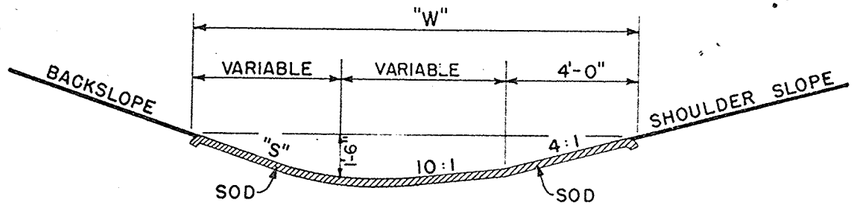


PLAN VIEW SHOWING SOD

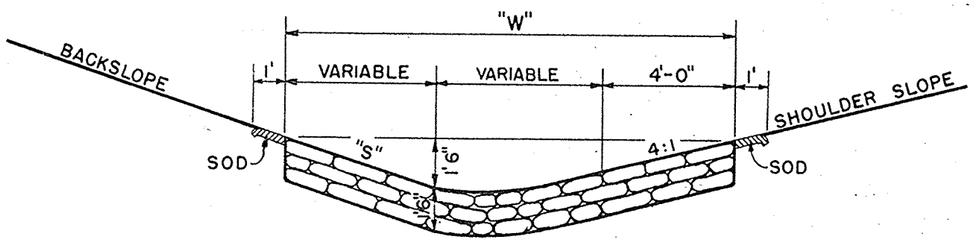


PROFILE OF DITCH GRADE

NOTE: NUMBER REQUIRED WILL BE DETERMINED BY VERTICAL SPACING.



SECTION



SECTION

SOD DITCH CHECKS

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

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.

8-1.3.1

DITCH CHECKS
MORTAR RUBBLE MASONRY & SOD

STATE HIGHWAY COMMISSION OF WISC.

RECOMMENDED FOR APPROVAL:

Frank Crase
DESIGN ENGINEER

DATE:

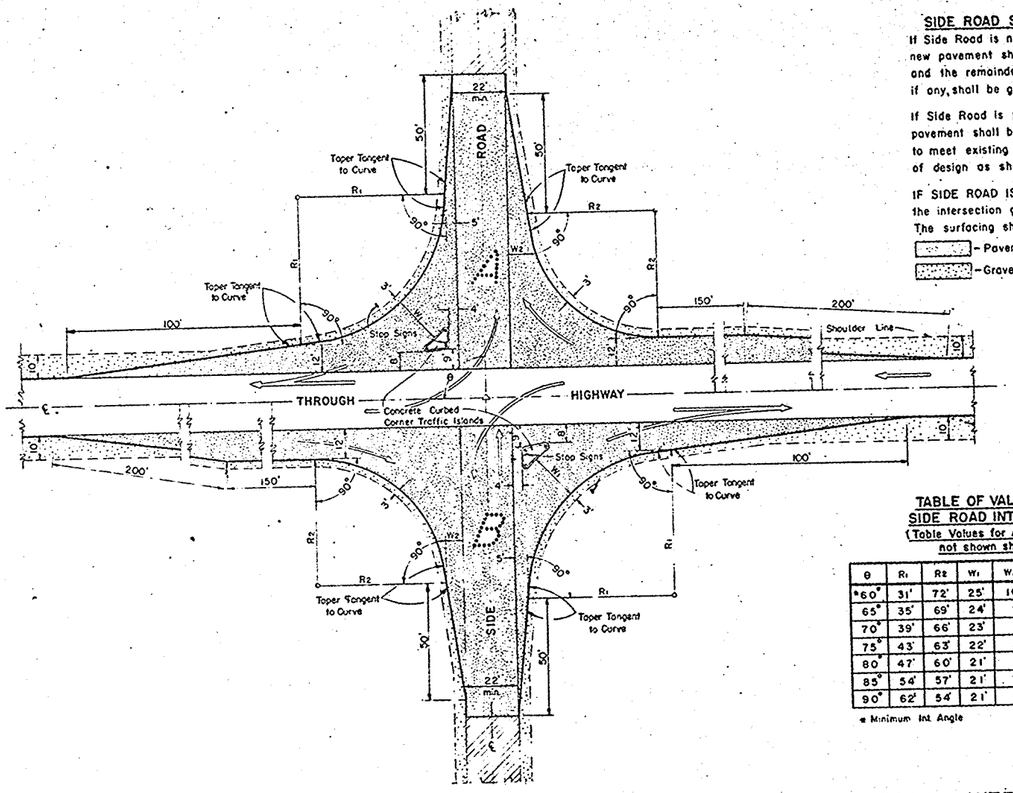
CONSTRUCTION ENGINEER

APPROVED:

DRAWN DIV 9
CHECKED M.F.

E. L. Roettiger
STATE HIGHWAY ENGINEER

8-1.3.1



SIDE ROAD SURFACING NOTE

If Side Road is not presently surfaced, new pavement shall be placed as shown, and the remainder to construction limits, if any, shall be gravel or crushed stone surfaced.

If Side Road is presently paved, new pavement shall be placed only as necessary to meet existing pavement, and to limits of design as shown.

IF SIDE ROAD IS THE CONSTRUCTION PROJECT, the intersection geometrics remain as shown. The surfacing shall be same as for the project.

- Pavement
- Gravel or Crushed Stone

TABLE OF VALUES FOR VARIABLE SIDE ROAD INTERSECTION ANGLES

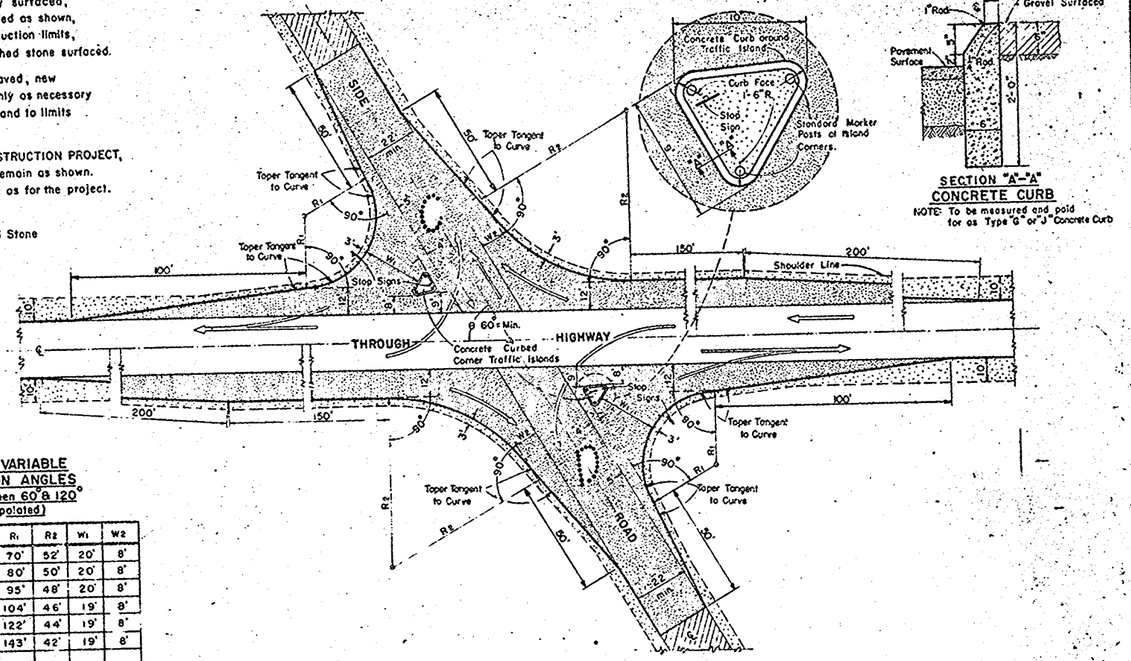
(Table Values for Angles between 60° & 120° not shown shall be interpolated)

θ	R1	R2	W1	W2
*60°	31'	72'	25'	10'
65°	35'	69'	24'	9'
70°	39'	66'	23'	8'
75°	43'	63'	22'	8'
80°	47'	60'	21'	8'
85°	54'	57'	21'	8'
90°	62'	54'	21'	8'

θ	R1	R2	W1	W2
95°	70'	52'	20'	8'
100°	80'	50'	20'	8'
105°	95'	48'	20'	8'
110°	104'	46'	19'	8'
115°	122'	44'	19'	8'
*120°	143'	42'	19'	8'

* Minimum Int. Angle

** Maximum Int. Angle



MAJOR SIDE ROAD INTERSECTION DESIGN DETAILS

To be used only when current ADT on Through Highway is 1500 or over, and on Side Road is Over 200

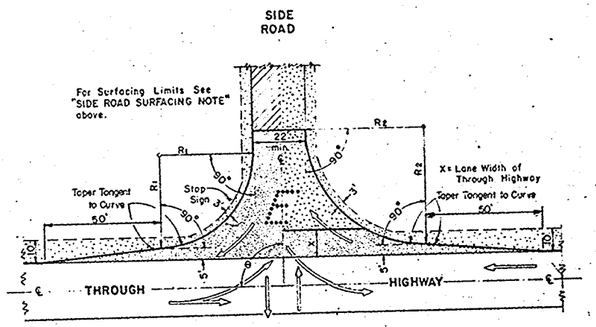


TABLE OF VALUES FOR VARIABLE SIDE ROAD INTERSECTION ANGLES

(Table Values for Angles between 60° & 120° not shown shall be interpolated)

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

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

* Minimum Int. Angle

** Maximum Int. Angle

MINOR SIDE ROAD INTERSECTION DESIGN DETAILS

To be used when current ADT on Through Highway is Less than 1500 or on Side Road is Less than 200

GENERAL NOTES

Designs "A" "B" "C" "D" or "E" may be used interchangeably in combination or separately for any one complete intersection depending upon Traffic Volume, 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.

DESIGN & LAYOUT DETAILS FOR SIDE ROAD AT GRADE INTERSECTIONS (RURAL IN CHARACTER)

STATE HIGHWAY COMMISSION OF WISCONSIN

RECOMMENDED FOR APPROVAL

DATE: 1/17/58 — ENGINEER OF DESIGN

APPROVED

DATE: 1/17/58 — STATE HIGHWAY ENGINEER

PLATE NO. 9-1.1.3

BENCH MARK

NO.	STATION	DESCRIPTION	ELEV.
25	170+25	SPIKE IN 24" MAPLE 50' LT.	789.81

COUNTY & HIGHWAY	ROUTE & SECTION	CLASS & JURISDICTION STATE	FEDERAL	P.E. PROJECT	PROJECT	SHEET NUMBER	TOTAL SHEETS
44	6 | 12.0	11.1	+ S011R(1)	25	53		

TREATED LUMBER AND TIMBER

NOMINAL SIZE	NO.	LENGTH	SURFACE	GRADE	LOCATION
3"X6"	4	9-0	NONE	1500#F.B.+P	WING CLEAT
	4	12-0	"	"	" "
			"	"	" "
3"X10"	4	3-3	NONE	1600#F.B.+P	WING BACKING
	4	6-6	"	"	" "
	4	9-9	"	"	" "
	52	13-0	"	"	
	20	30-6	"	"	BODY BACKING
6"X6"	4	11-0	NONE	1200#F.B.+P	NAILING STRIP - WING
	4	13-0	"	"	" "
	12	8-6	"	"	" " - BODY
6"X8"	4	13-9	NONE	1200#F.B.+P	NAILING STRIP - BODY

BILL OF BARS

1,130 lbs

DIMENSIONS IN BENDING DETAILS ARE OUT TO OUT.

POUR	MARK	NO.	SIZE	LENGTH	SPACING	LOCATION	DET
ABUTMENTS	A1	10	6	30-0	SHOWN	CAP - TOP, BOTTOM, SIDES	
	A2, A3	44	4	11-0	"	STIRRUPS	A
	A3	4	4	30-0	"	CAP - HORIZ.	
	A4	58	5	4-6	1-0	"	



DETAIL A

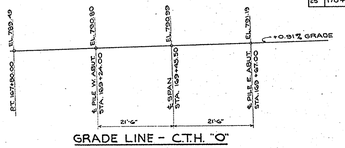
BILL OF BARS

8,020 lbs

POUR	MARK	NO.	SIZE	LENGTH	SPACING	LOCATION	DET
SUPERSTRUCTURE	S1	110	5	23-6	SHOWN	FLOOR - LONG., TOP & BOTTOM	
	S2, S4	136	5	30-0	"	" - TRANS., " "	
	S3	8	6	23-0	"	CURB - LONG.	
	S4	20	6	4-0	"	" - SYM. ABOUT ℄ RAIL POST	
	S5	88	5	3-6	1-0	" " - TRANS.	S
	S6	110	6	2-6	"	FLOOR AT ABUTMENT	



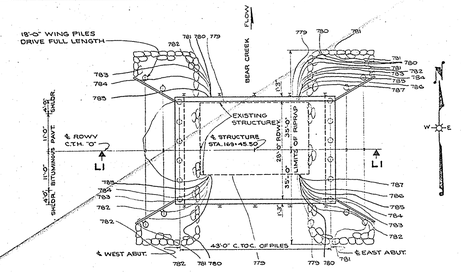
DETAIL S



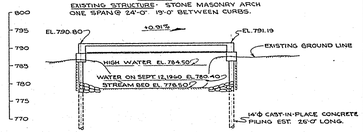
GRADE LINE - C.T.H. "O"

GENERAL NOTES

DRAWINGS SHALL NOT BE SCALED.
ALL CONCRETE MASONRY SHALL BE GRADE "AE".
BEVEL ALL EXPOSED EDGES OF CONCRETE 1" UNLESS OTHERWISE SPECIFIED.
BAR STEEL REINFORCEMENT SHALL BE IMBEDDED 2" CLEAR UNLESS OTHERWISE SHOWN OR NOTED.
THE USE OF STRUCTURAL GRADE BAR STEEL REINFORCEMENT IS PROHIBITED.
ALL PILING SHALL BE 14"ϕ CAST-IN-PLACE CONCRETE PILING.
ABUTMENT BODY PILES SHALL BE ESTIMATED 25'-0" LONG AND DRIVEN TO A MINIMUM BEARING VALUE OF 20 TONS PER PILE. WING PILING SHALL BE 18'-0" LONG AND DRIVEN FULL LENGTH.
RIPRAP SHALL BE PLACED AS SHOWN IN SECTION "A" ALONG FRONT FACE OF BODY AND WINGS OF THE ABUTMENTS AND AS SHOWN ON THIS SHEET.



PLAN



SECTION L1

TOTAL ESTIMATED QUANTITIES

BID ITEMS	UNIT	SUPER	ABUT'S.	TOTAL
REMOVING OLD BRIDGE	L.S.	——	——	1
EXCAVATION FOR STRUCTURES	C.Y.	——	80	80
GRANULAR BACKFILL	C.Y.	——	60	60
CONCRETE MASONRY	C.Y.	43.1	18.4	61.5
BAR STEEL REINFORCEMENT	LB.	9,010	1,130	9,150
STRUCTURAL CARBON STEEL	LB.	18,500	680	19,180
TREATED LUMBER AND TIMBER	MBM	——	4.34	4.34
* CAST-IN-PLACE CONCRETE TEST PILING (@ 35'-0")	L.F.	——	——	1
CAST-IN-PLACE CONCRETE PILING - DELIVERED	L.F.	——	410	410
CAST-IN-PLACE CONCRETE PILING - DRIVEN	L.F.	——	300	300
STEEL RAILING	L.F.	98.0	——	98.0
RIPRAP	C.Y.	——	80	80
FLOOR DRAINS	EACH	2	——	2
BEARING PADS		12	——	12
NON-BID ITEMS				

* DRIVE TEST PILE AT LOCATION OF WEST ABUTMENT.

LIST OF DRAWINGS

1. LAYOUT X23674
2. SUPERSTRUCTURE X23675
3. ABUTMENTS X23676
4. FLOOR DRAIN DETAILS ..... X13676 A

STATE HIGHWAY COMMISSION OF WISCONSIN

LAYOUT

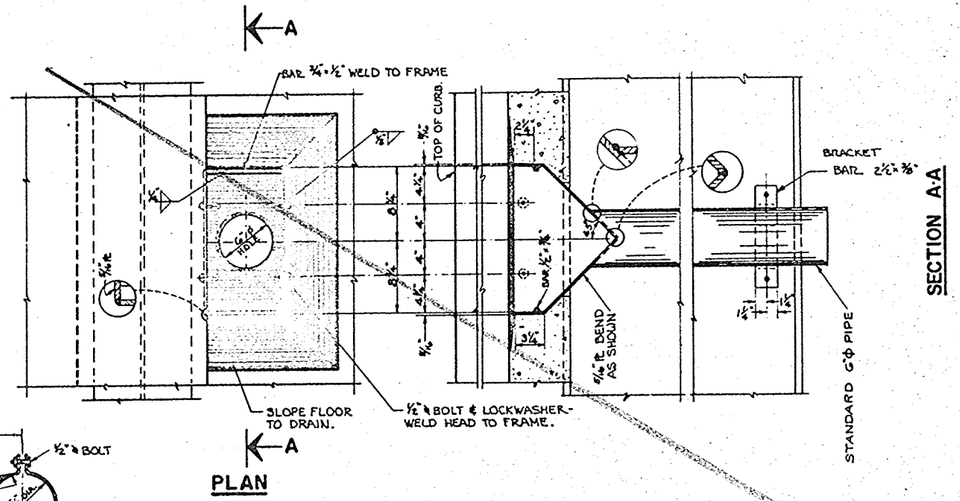
OUTAGAMIE | 44 | CENTER | 169+45.50
30 | 22N | 17E
AASHO '57 | M-5 | RIB | 1957
6-12-57 | W.B. Scholtz
E.L. Koethen

STRUCTURE B-44-45 | SHEET 1 OF 4

X23674

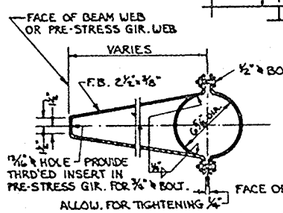
FLOOR DRAIN TYPE	NO. REQ'D
TYPE "A"	2
~~TYPE "B"~~	

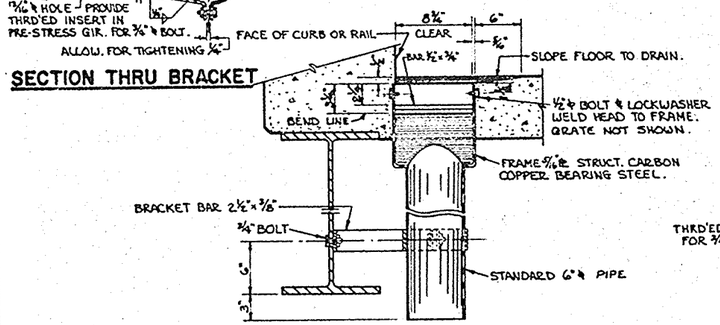
B.P.R. DIVISION	PROJECT	SHEET NO.	TOTAL SHEETS
4	5011.2(1)	28	53



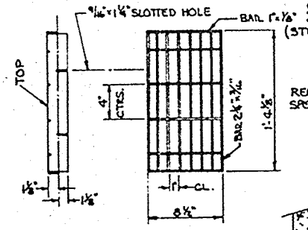
PLAN

SECTION A-A



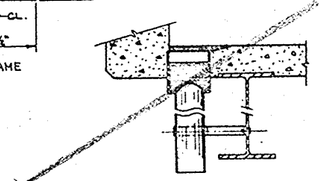


SECTION THRU BRACKET

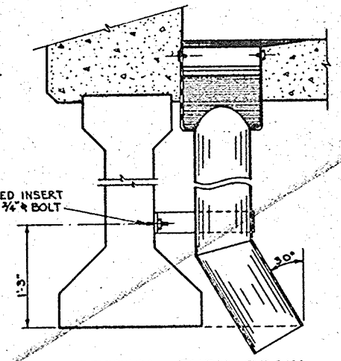


NOTE: BOLT GRATE TO FRAME FOR SHIPMENT.

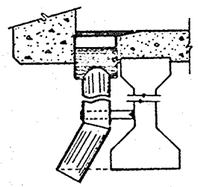
GRATE



SECTION THRU DRAIN
(STEEL BEAM SHOWN INSIDE)

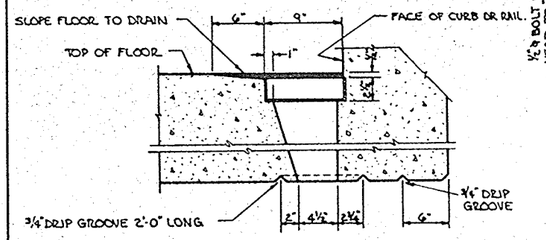


SECTION THRU DRAIN
(PRE-STRESSED GIRDER SHOWN OUTSIDE)

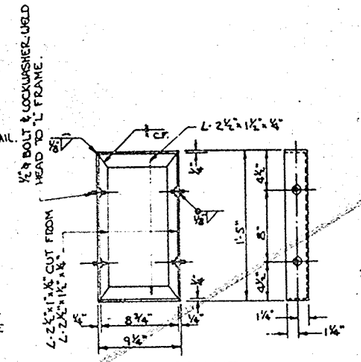


SECTION THRU DRAIN
(PRE-STRESSED GIRDER SHOWN INSIDE)

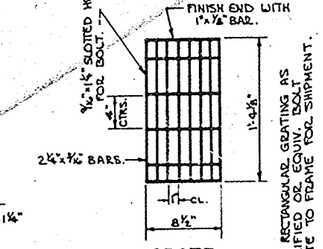
FLOOR DRAIN · TYPE "A"



SECTION THRU DRAIN



FRAME



GRATE

RECTANGULAR GRATING AS SPECIFIED OR EQUIV. SHIP GRATE TO FRAME FOR SHIPMENT.

FLOOR DRAIN · TYPE "B"

DESIGNED	STATE HIGHWAY COMMISSION OF WISCONSIN
	FLOOR DRAIN DETAILS
DESIGN SPEC. AASHO '57	LOADING H15	CONST. SPEC. 1957
DATE 6-29-61	DESIGN STD	DRAWN DRS	CKD. A.L.G.
STRUCTURE B-44-45	SHEET 4 OF 4

X 23676A

BPR DISTRICT OFFICE	PROJECT	SHEET NUMBER	TOTAL SHEETS
WIS. 4	S 0112 (1)	29	53

SCALE 1" = 5'

25 855 | 24 860 | 23 860 | 22 860 | 21 860 | 20 860 | 19 865 | 18+10.3 865

L 20' | L 20' | SAWED | L 20' | L 20' | L 28 | L 14' | L 20' | 28" MAPLE

SURV. ℄

STATION	DISTANCE	YARDAGE EXCAVATION UNCL.	FILL
18 +10.3			
	305		0
19			
	335		0
20			
	293		46
21			
	136		105
22			
	137		102
23			
	153		80
24			
	154		89
25			
SHEET TOTAL		1,513	422

PLATE 3 CROSS SECTIONS (W.D.P.I. & B.P.R. STANDARD)

B.P.R. DISTRICT OFFICE	PROJECT	SHEET NUMBER	TOTAL SHEETS
WIS. 4	S 0112(1)	30	53

STATION	DISTANCE	YARDAGE EXCAVATION UNCL.	YARDAGE EXCAVATION FILL
25			
	132		124
26			
	94		225
27			
	47		381
28			
	29		404
29			
	141		229
30			
	233		102
31			
	164		193
32			
	82		197
33			
	108		215
34			
	179		157
35			
	236		54
36			
	318		16
37			
	509		9
38			
SHEET TOTAL		2272	2251

FINAL SURVEY — COMPUTED / PLOTTED / CHECKED — NOTE BOOK — NO. — DATE

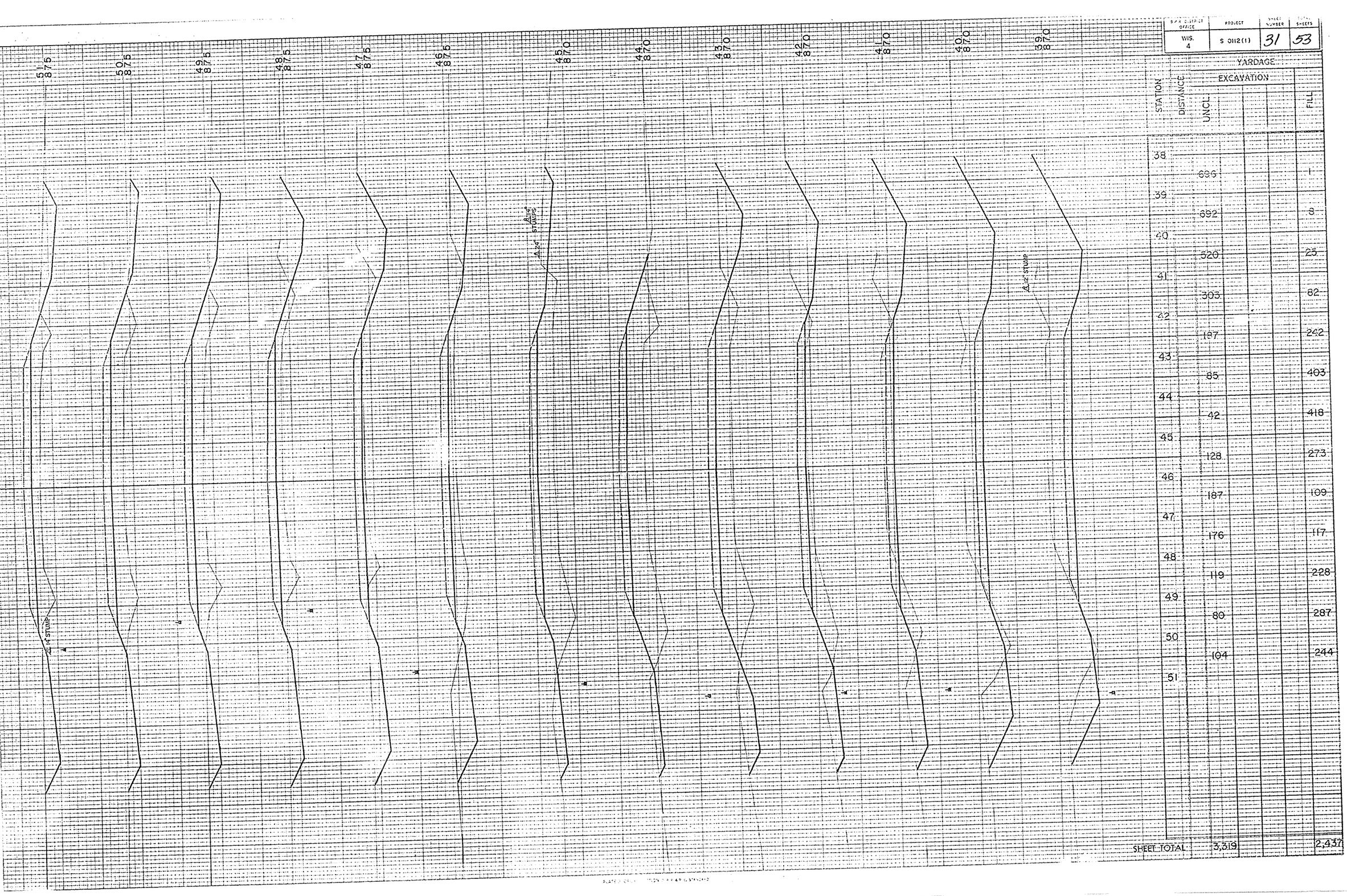
ORIGINAL SURVEY — COMPUTED / PLOTTED / CHECKED — NOTE BOOK 11 MILLAU — NO. 313 — DATE

BY: R.O.M. G.E.K. J.E.F. MACK

DATES: 8-60, 11-60, 1-61, 3-61

PLATE 2 CROSS SECTION O.P.R.&R.E. STANDARD
KEUFFEL & ESSER CO. NEW YORK

B.P.R. DISTRICT OFFICE	PROJECT	SHEET NUMBER	TOTAL SHEETS
WIS. 4	S 0112(1)	31	53


51 87.5
50 87.5
49 87.5
48 87.5
47 87.5
46 87.0
45 87.0
44 87.0
43 87.0
42 87.0
41 87.0
40 87.0
39 87.0
Δ 24" STUMP
Δ 24" STUMP
Δ 24" STUMP

B.P.R. DISTRICT OFFICE	PROJECT	SHEET NUMBER	TOTAL SHEETS
WIS. 4	S 0112 (1)	32	53

STATION	DISTANCE	UNCL.	YARDAGE EXCAVATION	FILL
51				
		107		176
52				
		89		152
53				
		104		139
54				
		63		178
55				
		11		220
56				
		74		133
57				
		120		83
58				
		78		206
59				
		78		261
60				
		126		174
61				
		215		76
62				
		259		31
63				
		306		24
64				
		342		8
65				
SHEET TOTAL		1,972		1,851

FINAL SURVEY — DRAWING PLOTTED TRACED AND CHECKED — DATE — MAP NO. —

ORIGINAL SURVEY — SURVEYED PLOTTED TRACED AND CHECKED — DATE 8-60 11-60 3-61 — BY R.O.N. G.F.K. MACH. — MAP NO. 313

PLATE 3 CROSS SECTION O.P.R.&R.E. STANDARD
REUFFEL & ESSER CO. NEW YORK
K & E CO. NO. 345-3

STATE OFFICE	PROJECT	SHEET NUMBER	TOTAL SHEETS
WIS. 4	S 0112(1)	33	53

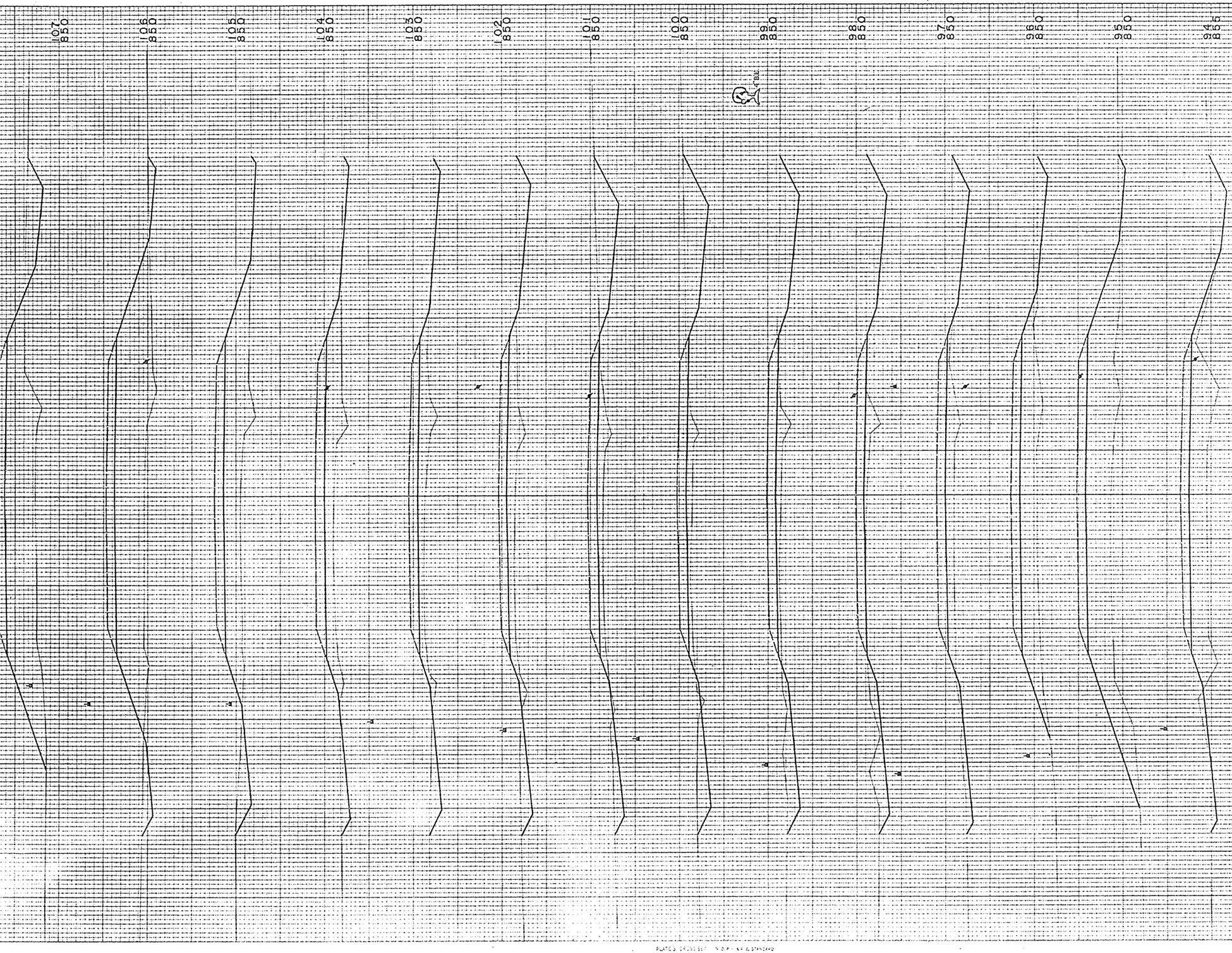
STATION	DISTANCE	YARDAGE EXCAVATION UNCL.	YARDAGE FILL
65			
	446		1
66			
	379		34
67			
	108		163
68			
	34		257
69			
	75		194
70			
	105		143
71			
	68		244
72			
	194		167
73			
	324		1
74			
	185		35
75			
	37		174
76			
	15		424
77			
	9		609
78			
	194		385
79			
SHEET TOTAL		2,173	2,831

B.P.R. DISTRICT OFFICE	PROJECT	SHEET NUMBER	TOTAL SHEETS
WIS. 4	S 0112(1)	34	53

STATION	DISTANCE	YARDAGE EXCAVATION UNCL.	YARDAGE EXCAVATION FILL
79			
	452		61
80			
	420		6
81			
	333		44
82			
	306		63
83			
	250		57
84			
	170		72
85			
	89		50
86			
	61		11
87			
	32		26
88			
	44		55
89			
	100		281
90			
	67		693
91			
	24		878
92			
	65		637
93			
SHEET TOTAL		2,413	2,934

PLATE 3 CROSS SECTION O.P.R.&R.E. STANDARD
REUFFEL & ESSER CO., NEW YORK

BPR DISTRICT OFFICE	PROJECT	SHEET NUMBER	TOTAL SHEETS
WIS 4	S 0112(1)	35	53



STATION	DISTANCE	YARDAGE EXCAVATION UNCL.	FILL
93	83		357
94	44		446
95	28		448
96	69		219
97	126		80
98	154		51
99	138		62
100	159		79
101	124		114
102	117		127
103	83		168
104	45		290
105	42		489
106	46		586
107			
SHEET TOTAL		1,288	3,516

B.P.R. DISTRICT OFFICE	PROJECT	SHEET NUMBER	TOTAL SHEETS
WIS. 4	S 0112 (1)	36	53

STATION	DISTANCE	YARDAGE UNCL. EXCAVATION	YARDAGE FILL
107	34		478
108	249		198
109	691		0
110	1142		0
111	1013		0
112	670		0
113	371		10
114	164		220
115	14		472
116	0		469
117	116		199
118	225		13
119	339		5
120	402		8
121			
	SHEET TOTAL	5,430	2,072

121 846 | 120 846 | 119 846 | 118 846 | 117 846 | 116 850 | 115 850 | 114 850 | 113 850 | 112 850 | 111 850 | 110 850 | 109 850 | 108 850

20" ELM | 20" BASSWOOD | 8" SHRUB | 8" SHRUB | 8" SHRUB

BPR DISTRICT OFFICE	PROJECT	SHEET NUMBER	TOTAL SHEETS
WIS. 4	5012(11)	39	53



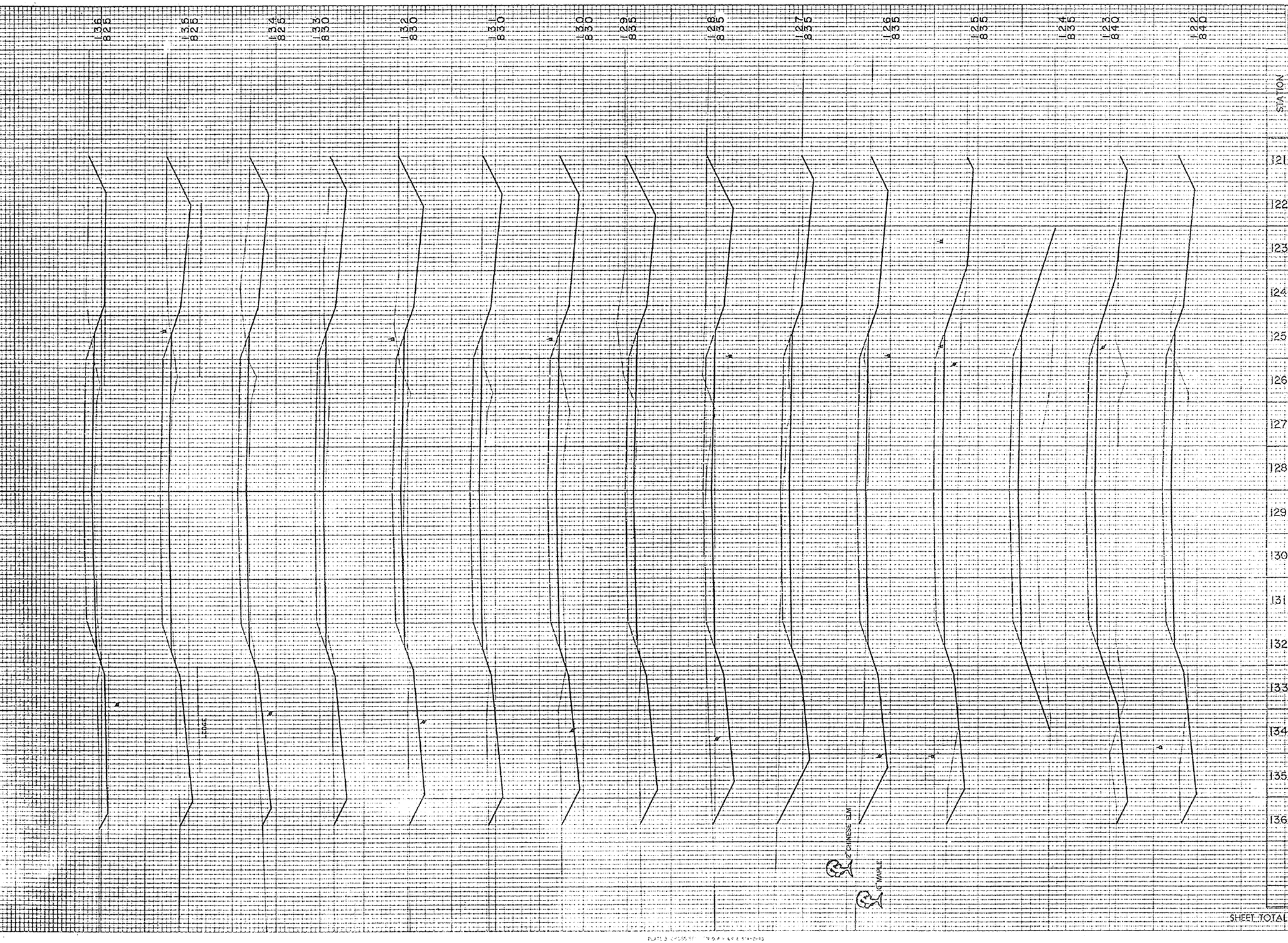
STATION	DISTANCE	EXCAVATION UNCL.	EXCAVATION COM.	FILL
152				
	34			186
153				
	37			241
154				
	53			219
155				
	62			157
156				
	16			82
157				
	368			7
158				
	39			6
159				
	316			11
160				
	247			12
161				
	212			36
162				
	145			108
163				
	119			134
164				
	135			126
165				
	122			272
166				
	59			674
167				
	11			1,030
168				
SHEET TOTAL		2,391	281	3,239

B.P.R. DISTRICT OFFICE	PROJECT	SHEET NUMBER	TOTAL SHEETS
WIS. 4	S 0112 (1)	36	53

STATION	DISTANCE	YARDAGE EXCAVATION	YARDAGE FILL
107			
	34		478
108			
	249		198
109			
	69		0
110			
	1142		0
111			
	1013		0
112			
	670		0
113			
	371		10
114			
	164		220
115			
	14		472
116			
	0		469
117			
	116		199
118			
	225		13
119			
	339		5
120			
	402		8
121			
SHEET TOTAL		5,430	2,072

PLATE 3- CROSS SECTION O.P.R. & R.E. STANDARD
KEUFFEL & ESSER CO. NEW YORK

BPR DISTRICT OFFICE	PROJECT	SHEET NUMBER	TOTAL SHEETS
WIS. 4	S 0112 (1)	39	53



STATION	DISTANCE	YARDAGE EXCAVATION UNCL	FILL
121			
	238		104
122			
	72		303
123			
	6		439
124			
	20		368
125			
	129		144
126			
	27		8
127			
	360		1
128			
	355		6
129			
	250		53
130			
	173		91
131			
	189		62
132			
	192		36
133			
	167		39
134			
	180		34
135			
	191		35
136			
SHEET TOTAL		2,793	1,723

B.P.R. DISTRICT OFFICE	PROJECT	SHEET NUMBER	TOTAL SHEETS
WIS. 4	SO112 (1)	40	53

STATION	DISTANCE	UNC	EXCAVATION	YARDAGE
168		TL		1,052
169		11		235
+24		0		89
+69		0		280
170		2		644
171		87		209
172		161		45
173		182		48
174		193		44
175		191		43
176		169		67
177		128		127
178		80		119
179		74		
SHEET TOTAL		1,278		3,008

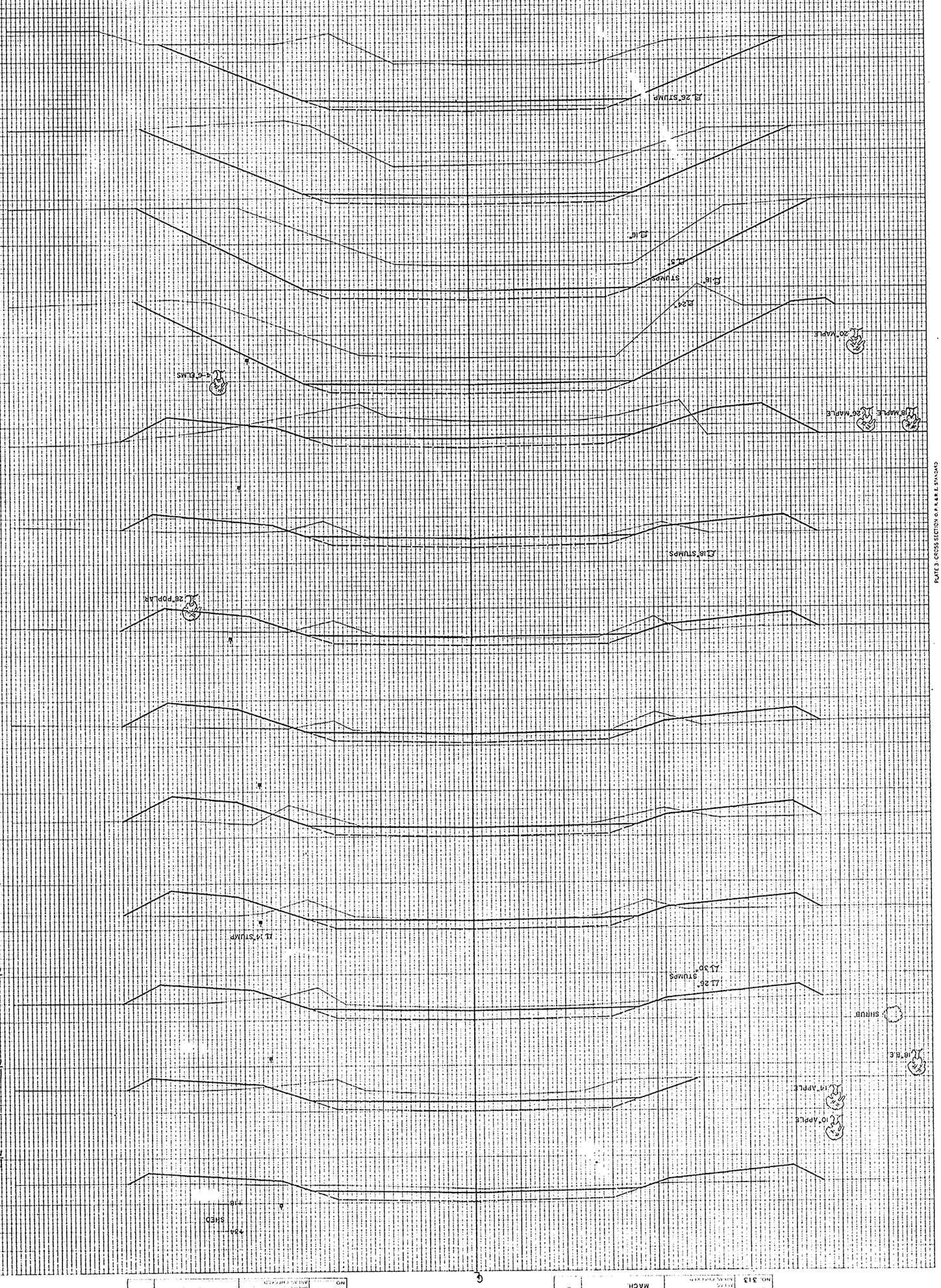


PLATE 3 CROSS SECTION OF A & B L. SYSTEMS
KENOSHA & LEECH CO. ASPHALTIC

ORIGINAL SURVEY	RODMAN	DATE
NOTE BOOK NO. 313		

	RODMAN	DATE
	J. L. E.	8-60
	MACH	4-61

FINAL SURVEY		DATE
NOTE BOOK NO.		BY

SHEET NO.	PROJECT	NUMBER	TOTAL SHEETS
W.S. 4	S 0112(1)	41	53

180		30	
181		32	
182		36	
183		72	
187		57	
188		43	
189		38	
190		44	
191		42	
192		40	
193			
SHEET TOTAL		1,310	

B.P.R. DISTRICT OFFICE	PROJECT	SHEET NUMBER	TOTAL SHEETS
WIS. 4	S 0112 (1)	42	53

FINAL SURVEY — DESIGNED / DRAWN / TRACED / CHECKED — NOTE BOOK — DATE

ORIGINAL SURVEY — DESIGNED / DRAWN / TRACED / CHECKED — NOTE BOOK — DATE

BY: R.D.N. 8-60; J.E.E. 1-61; MACH. 3-61

STATION	DISTANCE	YARDAGE EXCAVATION UNCL.	YARDAGE FILL
193	53		217
194	51		297
195	149		118
196	326		15
197	664		0
198	878		0
199	734		0
200	466		0
201	213		70
202	77		169
203	52		192
204	50		155
205	51		162
206	77		152
207			
SHEET TOTAL	3,793		1,473

PLATE 3 CROSS SECTION O.P.R.&R.E. STANDARD
KEUFFEL & ESSER CO. NEW YORK

SPRINGFIELD OFFICE	PROJECT	SHEET NUMBER	TOTAL SHEETS
WIS. 4	S 0112(1)	43	53

220 795 | 219 795 | 218 795 | 217 795 | 216 795 | 215 795 | 214 795 | 213 795 | 212 795 | 211 795 | 210 795 | 209 795 | 208 795

4" ELM | 12" ELM | 36" ELM | 40" STUMP

"TOLD" TRIANGULATE

STATION	DISTANCE	YARDAGE EXCAVATION UNCL.	FILL
207			
	77		124
208			
	80		105
209			
	79		103
210			
	108		88
211			
	166		65
212			
	148		68
213			
	110		79
214			
	97		90
215			
	72		115
216			
	59		128
217			
	63		120
218			
	101		91
219			
	153		54
220			
SHEET TOTAL		1,313	1,230

BPR DISTRICT OFFICE	PROJECT	SHEET NUMBER	TOTAL SHEETS
WIS. 4	S 0112(1)	44	53

STATION	DISTANCE	YARDAGE EXCAVATION UNCL.	YARDAGE EXCAVATION FILL
220			
	179		39
221			
	145		70
222			
	65		136
223			
	50		188
224			
	56		207
225			
	63		131
226			
	78		37
227			
	141		9
228			
	83		60
229			
	83		41
230			
	84		24
231			
232			
233			
SHEET TOTAL		1,381	1,318

FINAL SURVEY — SURVEYED / PLOTTED / CHECKED / NOTE BOOK / NO. — DATE

ORIGINAL SURVEY — SURVEYED / PLOTTED / CHECKED / NOTE BOOK / NO. 313 — DATE

DY	DATE
R.E.M.	8-60
J.E.F.	11-60
M.A.H.	1-61
	3-61

PLATE 3 CROSS SECTION O.P.R.&R.E. STANDARD
KEUFFEL & ESSER CO. NEW YORK

STATE PROJECT OFFICE	PROJECT	SHEET NUMBER	TOTAL SHEETS
WIS. 4	S 0112 (1)	45	53

246 810 | 245 815 | 244 815 | 243 815 | 242 810 | 241 810 | 240 810 | 239 805 | 238 805 | 237 805 | 236 805 | 235 800 | 234 800

10" ASPEN

EDGE

36" ELM

EDGE

12" APPLE

22" MAPLE

36" MAPLE

20" MAPLE

36" MAPLE

4" WIRE (BURIED)

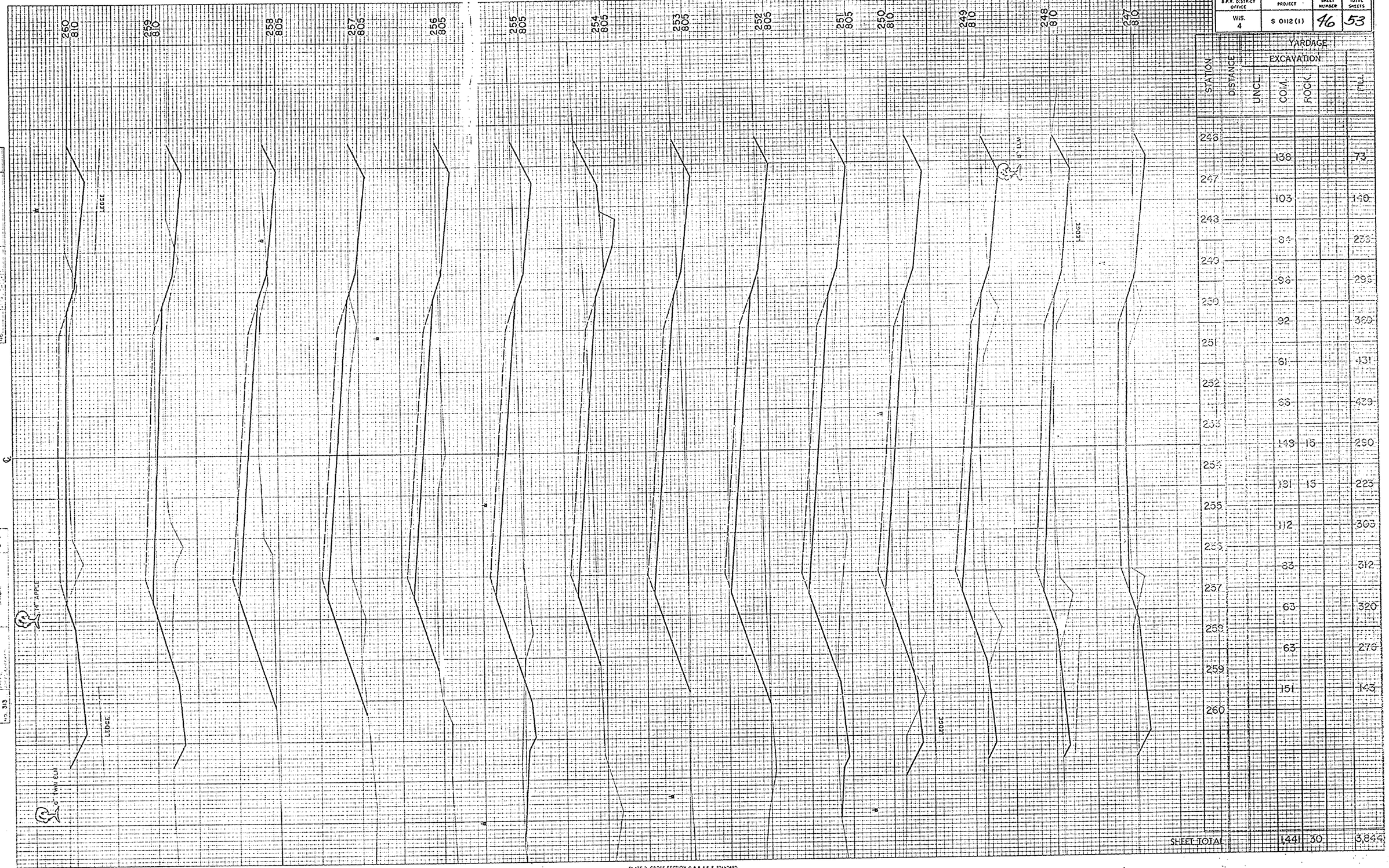
STATION	DISTANCE	YARDAGE EXCAVATION UNCL.	COM.	ROCK	FILL
233					
	85				113
234					
	52				193
235					
	78				213
236					
	30				161
237					
	55				105
238					
	19				149
239					
	83				230
240					
	95				279
241					
	90				272
242					
	218				136
243					
	386	105	11		9
244					
		527	26		0
245					
		292	15		24
246					
SHEET TOTAL		1,496	924	52	1884

B.P.R. DISTRICT OFFICE	PROJECT	SHEET NUMBER	TOTAL SHEETS
WIS. 4	S 0112 (1)	46	53

FINAL SURVEY
NOTE BOOK NO.

ORIGINAL SURVEY
NOTE BOOK NO. 313

R.O.W. 8-00
U.S.F. 11-00
V.E.F. 1-0
MAGN. S-6



STATION	DISTANCE	YARDAGE EXCAVATION UNCL.	COM.	ROCK.	FILL
246					
	138				73
247					
	103				140
248					
	81				228
249					
	98				293
250					
	92				360
251					
	61				431
252					
	86				439
253					
	148	15			280
254					
	131	15			223
255					
	112				303
256					
	83				312
257					
	63				320
258					
	63				276
259					
	151				145
260					
SHEET TOTAL		1,441	30		3,844

PLATE 3 CROSS SECTION O.P.R.&R.E. STANDARD
KEUFFEL & ESSER CO. NEW YORK

SPR DISTRICT OFFICE	PROJECT	SHEET NUMBER	TOTAL SHEETS
WIS 4	S 0112 (1)	47	53

272 825 — 271 825 — 270 825 — 269 825 — 268 320 — 267 815 — 266 815 — 265 815 — 264 810 — 263 810 — 262 810 — 261 810

6-STHOUSPPLE

3-4 OAK

3-5" THOUSPPLE

EDGE

4" THW BASSWOOD

6" ASH

EDGE

EDGE

STATION	DISTANCE	EXCAVATION UNCL.	EXCAVATION COM.	EXCAVATION ROCK	YARDAGE FILL
260					
			163		56
261					
			103		100
262					
			82		176
263					
			49		281
264					
			30		412
265					
			42		488
266					
			56		517
267					
			60		486
268					
			222		249
269					
			395		29
270					
			305		10
271					
			158		69
272					
SHEET TOTAL		1,140	527		2,873

PLATE 3 CROSS SECTIONS OF B.P.R.R.P.E. STANDARDS

B.P.R. DISTRICT OFFICE	PROJECT	SHEET NUMBER	TOTAL SHEETS
WIS. 4	S 0112 (1)	48	53

STATION	DISTANCE	YARDAGE EXCAVATION UNCL.	COMMON	ROCK	FILL
272					
	96				117
273					
	55				124
274					
	49				116
275					
	63				77
276					
	134				41
277					
	199				22
278					
	76	167			17
279					
	263	7			23
280					
	238	7			43
281					
	111				135
282					
	18				328
283					
	1				765
284					
	0				1261
285					
	0				1216
286					
SHEET TOTAL		698	841	14	4,321

FINAL SURVEY — DRAWN — CHECKED — TRACED — NOTE BOOK — NO. — DATE

ORIGINAL SURVEY — DRAWN — CHECKED — TRACED — NOTE BOOK — NO. 313 — DATE — ADD'L CHECKED

BY: R.D.K. C.E.K. J.E.F. MACH.

DATE: 9-60 10-60 1-61 5-61

PLATE 3 CROSS SECTION O.P.R.&R.E. STANDARD

DIST. OFFICE	PROJECT	SHEET NUMBER	TOTAL SHEETS
W.S 4	S 0112 (1)	49	53

STATION	DISTANCE	YARDAGE EXCAVATION UNCL.	COM.	ROCK	FILL
286					
		3			853
287					
		36			438
288					
		93			265
289					
		70			228
290					
		102	18		238
291					
		157	33		154
292					
		114	17		214
293					
		34	2		293
294					
		6			180
295					
		235			26
296					
		164			32
297					
		156			58
298					
		137			87
299					
		75			113
300					
		41			168
301					
SHEET TOTAL		1116	1,332	70	3,287

B.P.R. DISTRICT OFFICE	PROJECT	SHEET NUMBER	TOTAL SHEETS
WIS. 4	S 0112 (1)	50	53

STATION	DISTANCE	UNGL	YARDAGE EXCAVATION	YARDAGE FILL
301				
	58			192
302				
	60			206
303				
	32			218
304				
	25			201
305				
	45			191
306				
	34			201
307				
	20			215
308				
	37			205
309				
	61			
310				
	124			137
311				
	144			132
312				
	109			115
313				
	62			140
314				
	60			121
315				
SHEET TOTAL		889		2425

315 7.95 | 314 7.95 | 313 7.95 | 312 8.00 | 311 8.00 | 310 8.00 | 309 7.95 | 308 7.95 | 307 7.95 | 306 7.95 | 305 7.95 | 304 7.95 | 303 7.95 | 302 7.93

26' E.L.M.

PLATE 3 CROSS SECTION O.P.R.&.B.R.E. STANDARD
KEUFFEL & ESSER CO., NEW YORK.

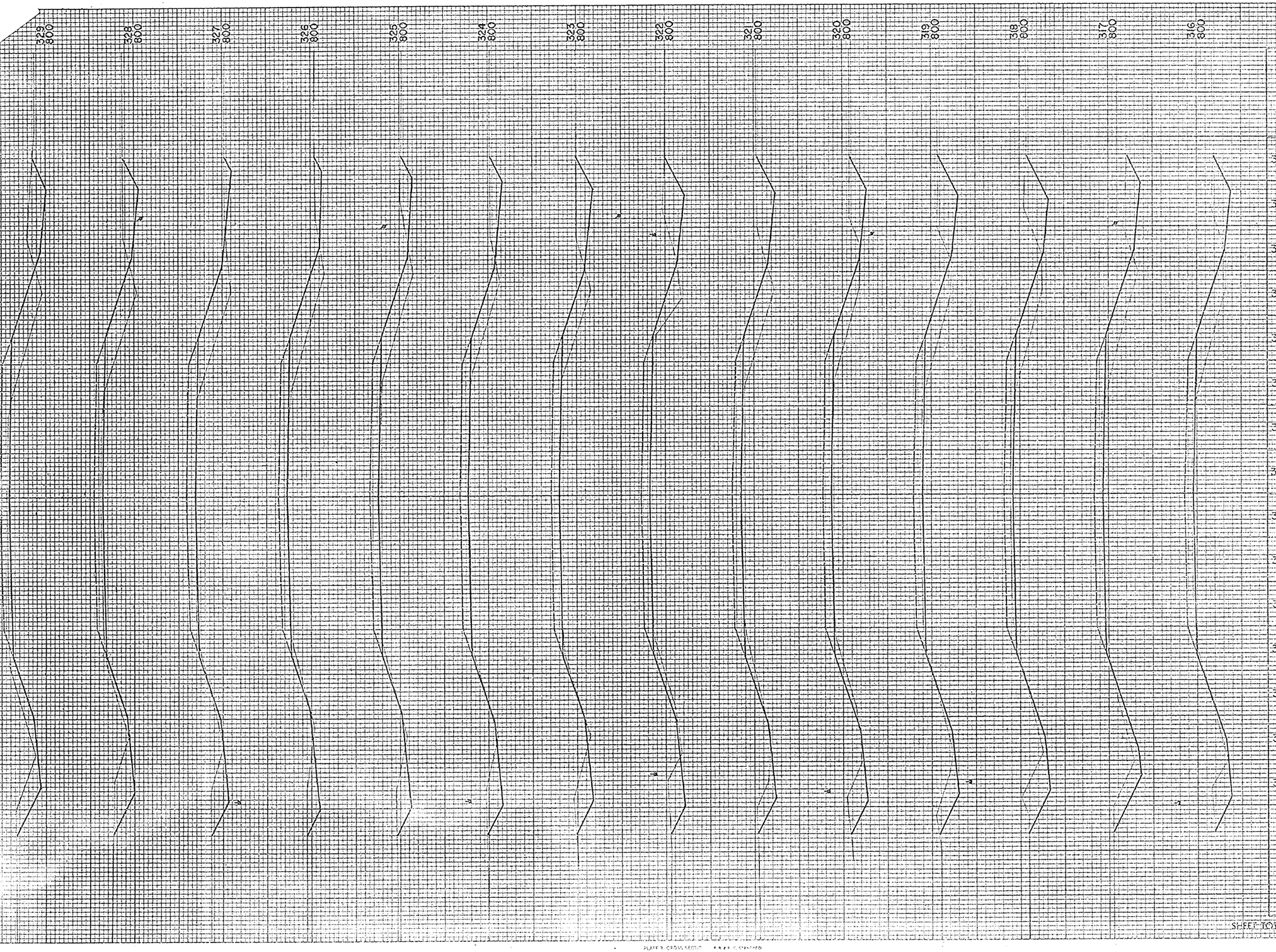
FINAL SURVEY NOTE BOOK NO.

ORIGINAL SURVEY NOTE BOOK NO. 315

BY C.D.K. C.D.K. J.E.F. MAGIL

DATE 6-60 11-60 1-61 5-61

APP. DISTRICT OFFICE	PROJECT	SHEET NUMBER	TOTAL SHEETS
WIS. 4	S 0112 (1)	51	53



STATION	DISTANCE	YARDAGE EXCAVATION UNC	YARDAGE FILL
315			
	85		89
316			
	108		77
317			
	122		71
318			
	118		66
319			
	83		71
320			
	75		88
321			
	80		104
322			
	88		85
323			
	90		56
324			
	77		60
325			
	56		83
326			
	50		91
327			
	93		83
328			
	140		80
329			
SHEET TOTAL		1,271	1,106

PLATE 3 CROSS SECTIONS — PAGE 51 OF 53 PAGES

B.P.R. DISTRICT OFFICE	PROJECT	SHEET NUMBER	TOTAL SHEETS
WIS. 4	S 0112 (1)	52	53

STATION	DISTANCE	YARDAGE EXCAVATION UNC.	FILL
329			
	149		68
330			
	165		39
331			
	170		40
332			
	108		74
333			
	43		80
334			
	33		90
335			
	57		90
336			
	125		56
337			
	216		32
338			
	249		31
339			
	191		31
340			
	155		30
341			
	124		36
342			
SHEET TOTAL		1,785	697

PLATE 2 CROSS SECTION

FINAL SURVEY
COMPUTED
CHECKED
NOTE BOOK
PAGE

ORIGINAL SURVEY
DRAWN
CHECKED
TRACED
DATE
313

R.D.K.
G.E.K.
J.E.F.
MACH

DATE
8-60
8-61
12-61

WIS.	PROJECT	SHEET NUMBER	TOTAL SHEETS
4	S 0112 (11)	53	53

YARDAGE

STATION	DISTANCE	EXCAVATION UNC.	COMMON	ROCK		FILL
342						
	19					19
343						
	33					1
+50						
	38					0
344						
	98					23
+50						
	21					81
345						
	3					129
+50						
	3					100
346						
	37					41
+50						
	78					11
347						
	126					0
+50						
	132					0
348						
	65					0
+28						
PROJECT TOTALS		4408	7239	222		54,604
SHEET TOTAL		454				405

PLATE 3 CROSS SECTION OF PLANK ELEVATORS