COUNTY AND HIGHWAY	ROUTE AND SECTION	CLASS AND AGREEMENT: STATE	CLASS AND AGREEMENT: FEDERAL	SPR. FEDER. SYSTEM	SHEET NUMBER	TOTAL SHEETS
44.6	1254.0		11.3	4 WIS.	1	47

STATE OF WISCONSIN

STATE HIGHWAY COMMISSION OF WISCONSIN

PLAN AND PROFILE OF PROPOSED

U.S.H. 10 - C.T.H. "O"
C.T.H "A"
OUTAGAMIE COUNTY
PROJECT S 1254 (3)

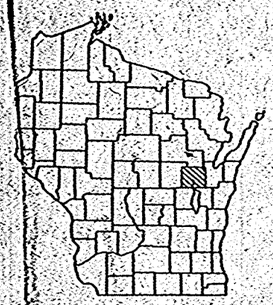
APPROVED FOR County Project #101

A-8

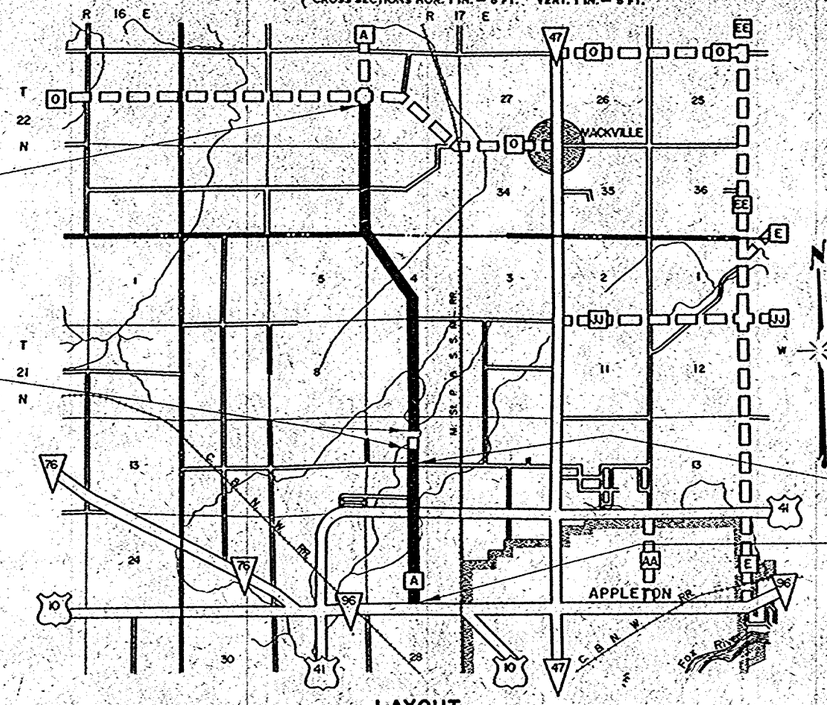
Date Title

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. — RIGHT OF WAY PLAT
SHEET NO. 3-13 PLAN AND PROFILE STA. 300+12 TO STA. 264+59.8
SHEET NO. 14-21 STANDARD DETAILS
SHEET NO. — DRAINAGE STRUCTURES
SHEET NO. 22-47 CROSS SECTIONS



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.



STA. 264 + 59.8 END OF PROJ. S 1254 (3)
W. 1/4 COR. SEC. 28, T 22 N, R 17 E.

STA. 55+00 TO STA. 91+40
EXCEPTION TO NET ℄ LENGTH

EQUATION: STA. 379+54.9 BK. = STA. 51+56.5 AH.

STA. 300+12 BEG. OF PROJ. S 1254 (3)
12' N. OF THE S. 1/4 COR. SEC. 21, T 21 N, R 17 E.

LAYOUT

SCALE 1 MILE

TOTAL NET LENGTH OF CENTERLINE = 4.850 MI.

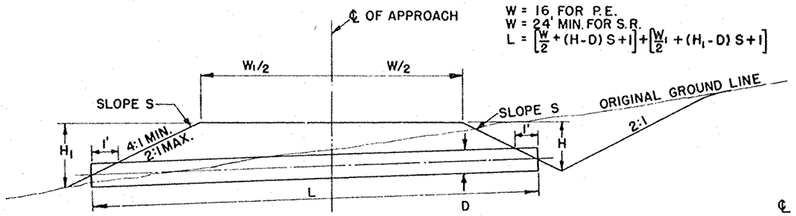
CONVENTIONAL SIGNS

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 SURVEY LINE
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

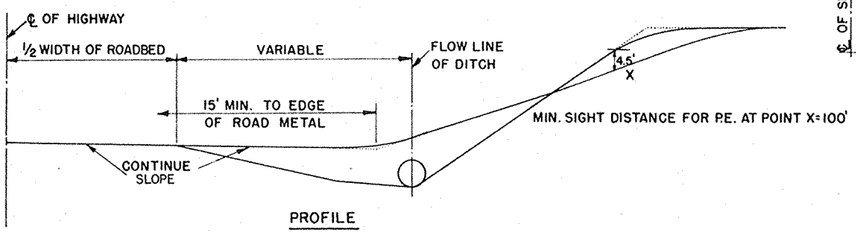
STATE HIGHWAY COMMISSION OF WISCONSIN
MADISON, WIS.

SURVEYED R.D.N. NOTE BOOK 215, 216, 118, 117
DESIGNED C.W.M. DRAWN
CHECKED D.H.N. CORRECT.
CORRECT: DATE 5-11-60
RECOMMENDED FOR APPROVAL: DATE 5/17/60
APPROVED: DATE 5/17/60
STATE HIGHWAY ENGINEER

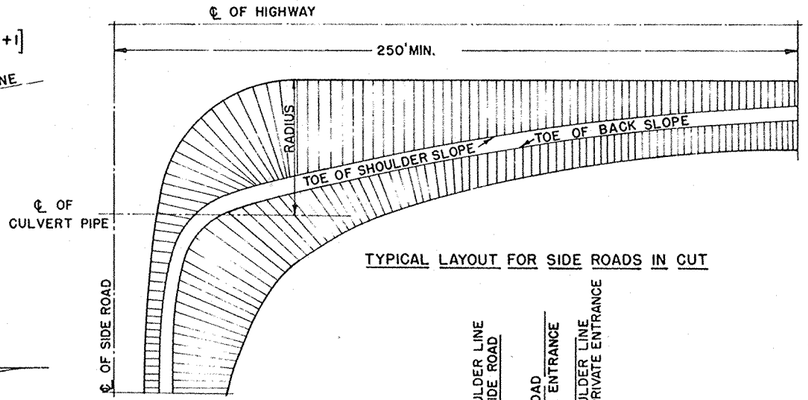
DEPARTMENT OF COMMERCE
BUREAU OF PUBLIC ROADS
APPROVED:



TYPICAL CROSS SECTION

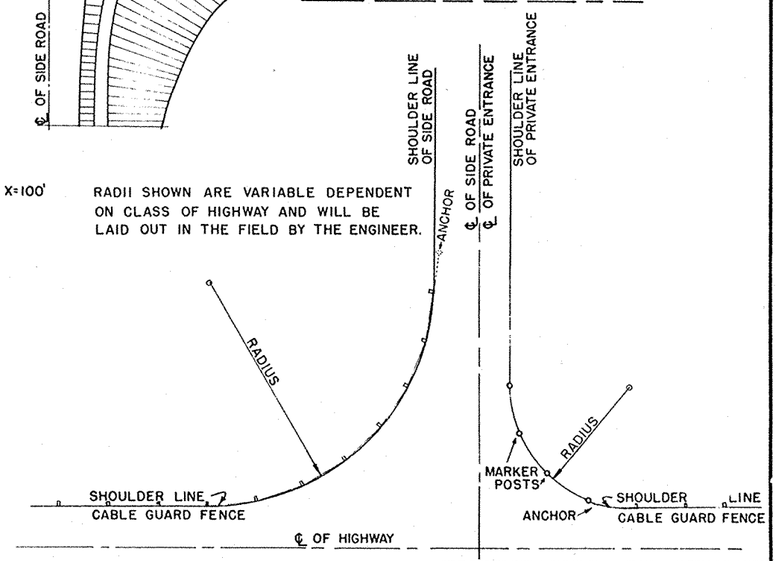


PROFILE



TYPICAL LAYOUT FOR SIDE ROADS IN CUT

RADII SHOWN ARE VARIABLE DEPENDENT ON CLASS OF HIGHWAY AND WILL BE LAID OUT IN THE FIELD BY THE ENGINEER.



TYPICAL LAYOUT FOR PRIVATE ENTRANCES AND SIDE ROADS IN HIGH FILLS

DETAILS OF PRIVATE ENTRANCE AND SIDE ROAD APPROACHES

STATE HIGHWAY COMMISSION OF WISC.

RECOMMENDED FOR APPROVAL:

Frank Crane
DESIGN ENGINEER

DATE

R. H. Blake
CONSTRUCTION ENGINEER

APPROVED:- OCT. 1, 1945

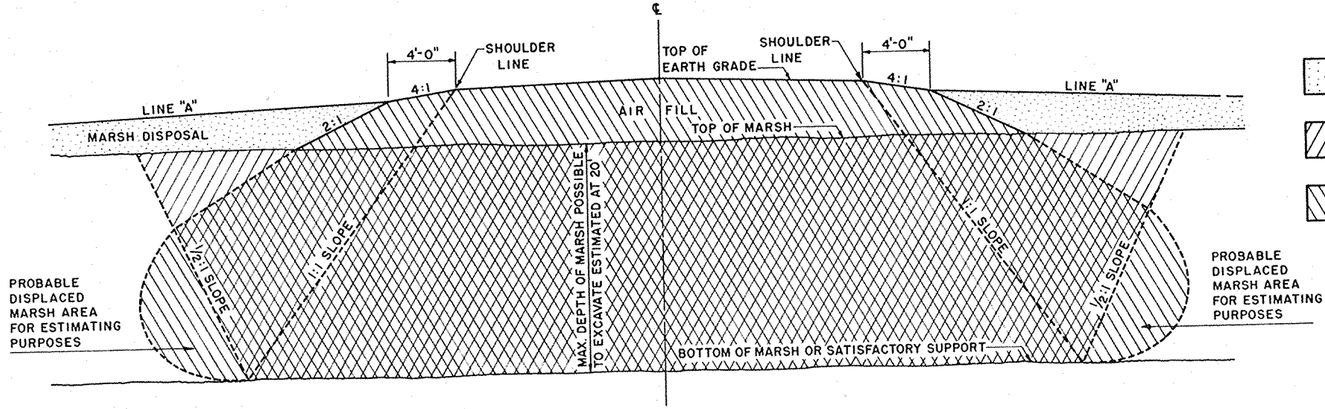
DRAWN

CHECKED

DATE

W. A. Rosenguy
STATE HIGHWAY ENGINEER

1-3.1.1



COMPLETE MARSH EXCAVATION

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

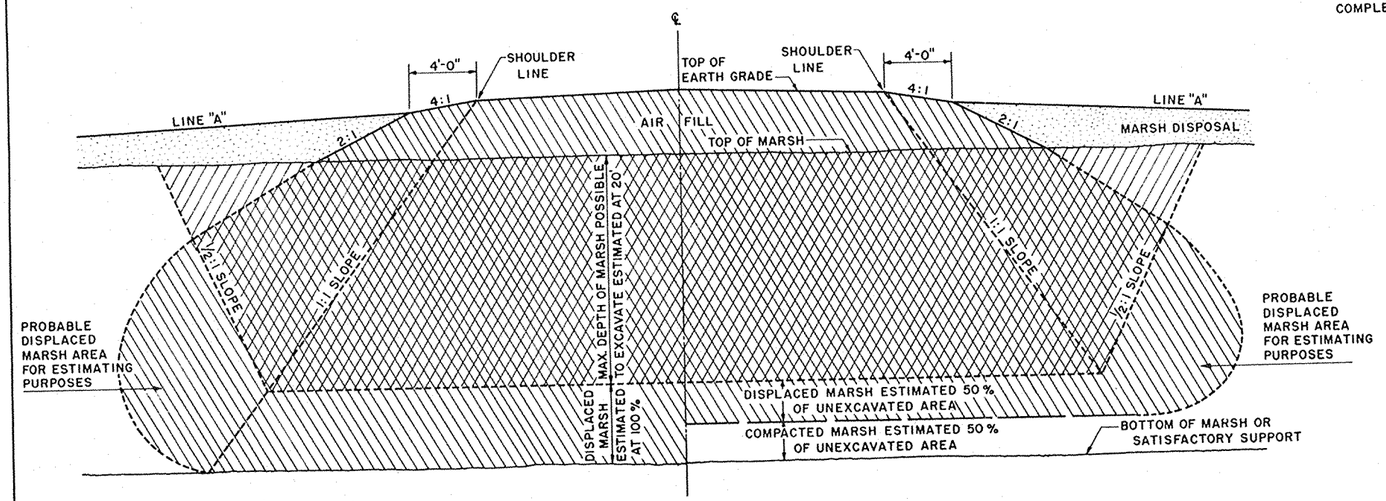
EXCAVATION

BACKFILL

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:

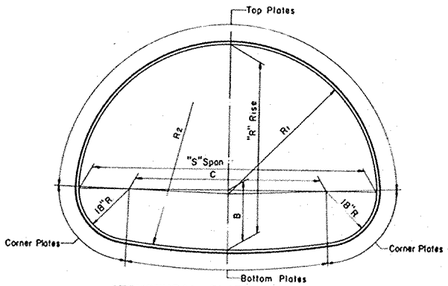
DATE 2/11/52 — CONSTRUCTION ENGINEER

APPROVED:

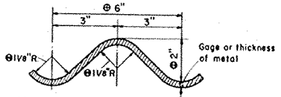
DATE 2/11/52 — STATE HIGHWAY ENGINEER

DRAWN LJD
CHECKED

1-1.1.2



STRUCTURAL PLATE PIPE ARCH



DETAIL OF METAL CORRUGATIONS

CORRUGATION DIMENSION TOLERANCES

⊙-Tol. 1/4"

⊕-Tol. ± 1/8"

⊖-Min. 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.

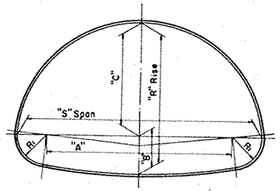
Strutting of Pipe Arches will not be required during construction unless specifically called for on the plans or the applicable Special Provisions.

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 "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														
								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	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	89.5	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	–	–	–	–

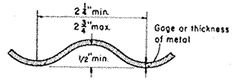
Note: For sizes of Structural Plate Pipe Arch between those shown in the table, the gage shall be interpolated (based on table data) where possible; otherwise the gage of the next larger size shown in the table shall be used.

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	4½	6½	3½	.61	1.1	1.23	15
16	22	13	14	4¾	8¼	4	.59	1.6	1.77	18
16	25	16	17	5¼	10¾	4	.64	2.2	2.41	21
14	29	18	20	5½	12½	4½	.62	2.8	3.14	24
14	36	22	26	6¼	15¾	5	.61	4.4	4.91	30
12	43	27	32	7	20	5½	.63	6.4	7.07	36
12	50	31	38	8	23	6	.62	8.7	9.62	42
12	58	36	44	9¼	26¾	7	.62	11.4	12.57	48
12	65	40	49	10½	29½	8	.62	14.3	15.90	54
10	72	44	54	11¾	32¼	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

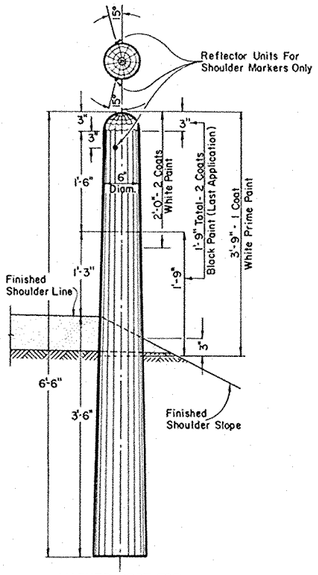
RECOMMENDED FOR APPROVAL:

5-27-57 DATE — J. S. Pelt ENGINEER OF DESIGN

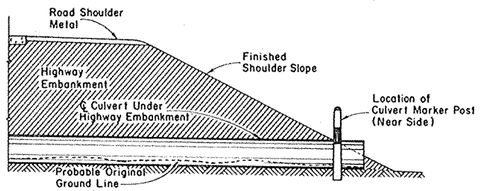
APPROVED:

5/28/57 DATE — E. C. Ruettiger STATE HIGHWAY ENGINEER

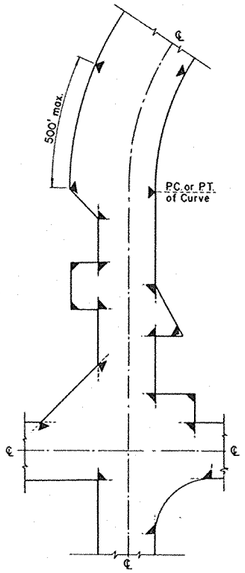
PLATE NO. 6-5.3.1



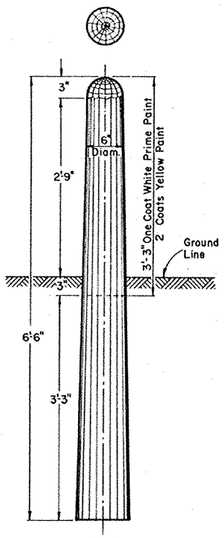
MARKER POST FOR
ROAD SHOULDERS AND CULVERTS



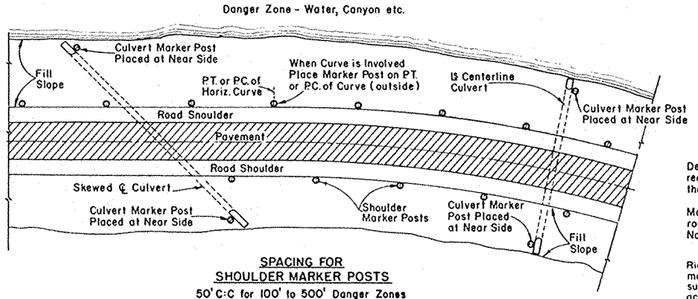
SECTION
SHOWING RELATIVE LOCATION OF
MARKER POST FOR CULVERTS



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

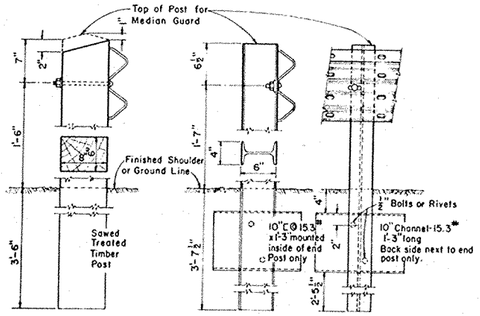
RECOMMENDED FOR APPROVAL

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

APPROVED:

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

PLATE NO. 7-1.3.3.

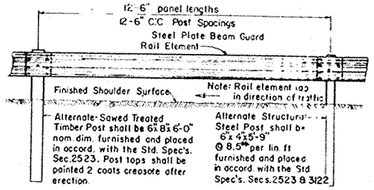


Side ELEVATION TIMBER POST

Side ELEVATION STEEL POST

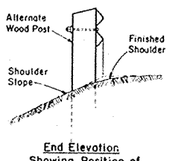
Front ELEVATION

ALTERNATE TYPE POSTS FOR STEEL PLATE BEAM GUARD AND STEEL PLATE BEAM (MEDIAN) GUARD



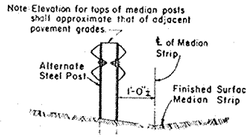
FRONT (Traffic Side) ELEVATION

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



End Elevation Showing Position of

STEEL PLATE BEAM GUARD



End Elevation Showing Position of

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 bronzed 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 so that 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 and 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 of 1,500 lbs., applied at the center point, with a maximum deflection of 2 1/2 inches and shall support a concentrated load of 2000 lbs. when tested in like manner with a maximum deflection of 5 1/2 inches.

PAINTING (When not furnished galvanized)

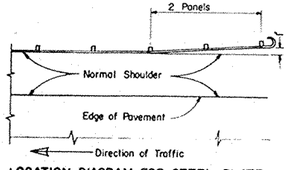
SHOP COAT - Promptly following fabrication, the plates for steel rail element and steel posts shall be thoroughly cleaned and painted with red lead primer or, upon the Engineers approval, an alternate of rust inhibitive primer may be used. All parts, hardware and appurtenant fittings for the complete beam guard assembly shall likewise be painted.

FIELD COAT - Following erection the steel rail elements, parts, hardware appurtenant fittings and steel posts shall be painted in accord with Standard Specifications with aluminum paint as provided in Section 3125.

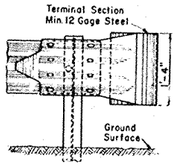
Any damaged areas occuring to shop coat during transportation or erection shall be cleaned and painted with red lead or an approved rust inhibitive primer prior to any field coat painting.

Where the steel plate elements make contact with the post mountings ect. all such areas which are inaccessible to paint after erection shall be painted prior to erection.

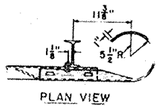
All threaded portions of fittings, fasteners and cut ends of bolts shall be painted as specified immediately following erection.



LOCATION DIAGRAM FOR STEEL PLATE BEAM GUARD INTERMEDIATE SECTIONS

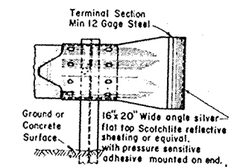


FRONT (Traffic Side) VIEW

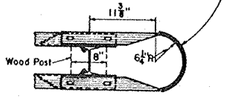


PLAN VIEW

TERMINAL SECTION DETAILS FOR STEEL PLATE BEAM GUARD



FRONT VIEW



PLAN VIEW

TERMINAL SECTION DETAILS FOR STEEL PLATE BEAM (MEDIAN) GUARD

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 prior to shop coat painting.

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

ALTERNATE POSTS

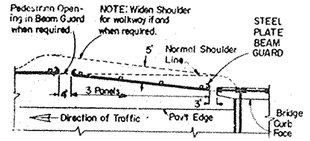
One type of post shall be used for Steel Plate Beam Guard and/or Steel Plate Beam (Median) Guard throughout the length of each project unless specific authorization is obtained from the Engineer to use alternate types.

GALVANIZED-ALTERNATE

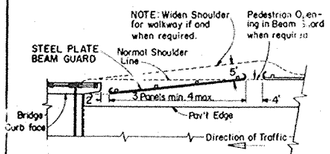
Steel rail elements may be furnished galvanized. Spelter coating shall be the hot dip process in accord with AASHO designation M 36. Only one type surface treatment (either painted or galvanized) may be used throughout the length of each project unless specific authorization is obtained from the Engineer to do otherwise.

MEASUREMENT & PAYMENT

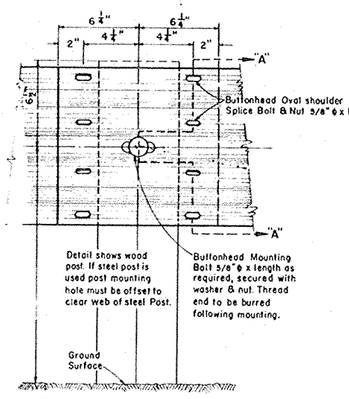
The items of "Class 'B' Steel Plate Beam Guard" and "Class 'B' Steel Plate Beam (Medium) Guard shall be measured and paid for at the contract unit price per linear foot, measured in place by length in linear feet from end to end-cut to cut of steel plate terminal sections, which price shall be full compensation for furnishing and placing all materials and performing all work to completion in accord with the plans and the Standard Specifications Section 2523 and the applicable Special Provisions.



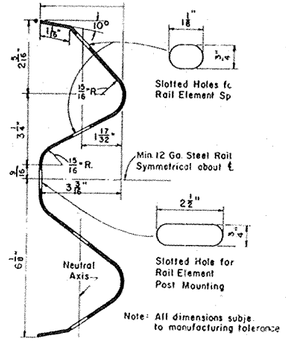
LOCATION DIAGRAM FOR STEEL PLATE BEAM GUARD AT BRIDGE EXITS



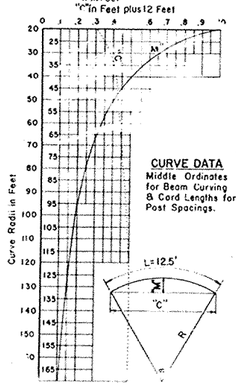
LOCATION DIAGRAM FOR STEEL PLATE BEAM GUARD AT BRIDGE APPROACHES



RAIL ELEMENT SPLICING & POST MOUNTING DETAILS



SECTION "AA" RAIL ELEMENT SECTION (Min. 12 GAGE STEEL)



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

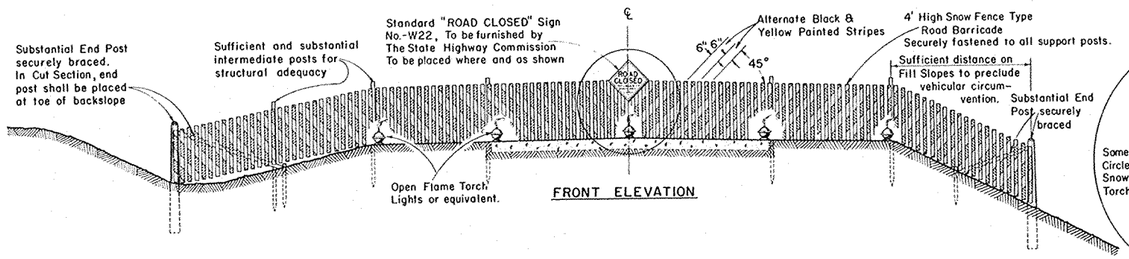
RECOMMENDED FOR APPROVAL:

DATE 7/16/59 J. S. Pitt ENGINEER OF DESIGN

APPROVED:

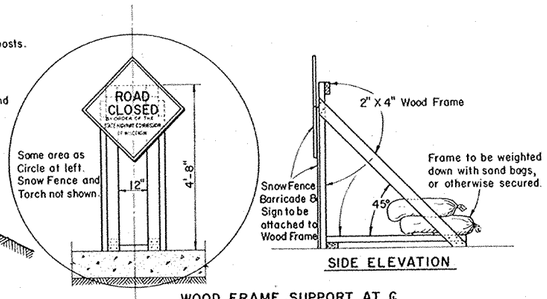
DATE 7/16/59 E. C. Rostinger STATE HIGHWAY ENGINEER

PLATE NO. 7-2.4.7



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

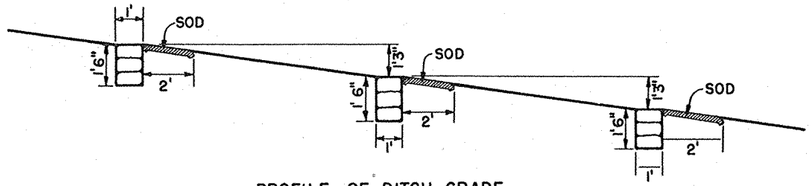
RECOMMENDED FOR APPROVAL:

6/2/55 DATE — J. A. Pilt ENGINEER OF DESIGN

APPROVED:

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

PLATE NO. 7-4.1.2

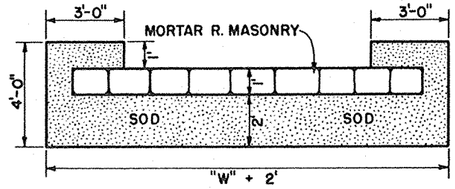


PROFILE OF DITCH GRADE

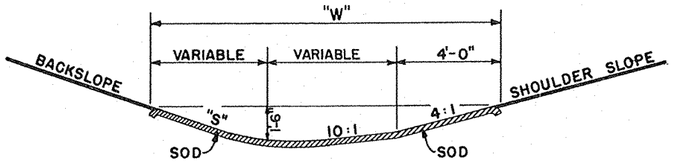


PROFILE OF DITCH GRADE

NOTE: NUMBER REQUIRED WILL BE DETERMINED BY VERTICAL SPACING.



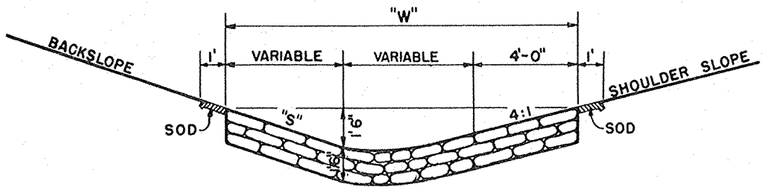
PLAN VIEW SHOWING SOD



SECTION

SOD DITCH CHECKS

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



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.

DITCH CHECKS
MORTAR RUBBLE MASONRY & SOD

STATE HIGHWAY COMMISSION OF WISC.

RECOMMENDED FOR APPROVAL:

Frank Crane
DESIGN ENGINEER

DATE:

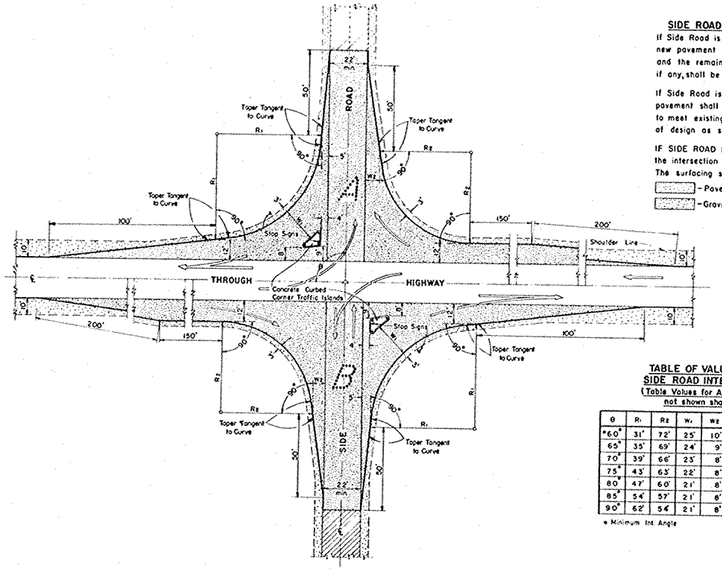
CONSTRUCTION ENGINEER

APPROVED:

DRAWN DIV 9
CHECKED N.F.C.

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'

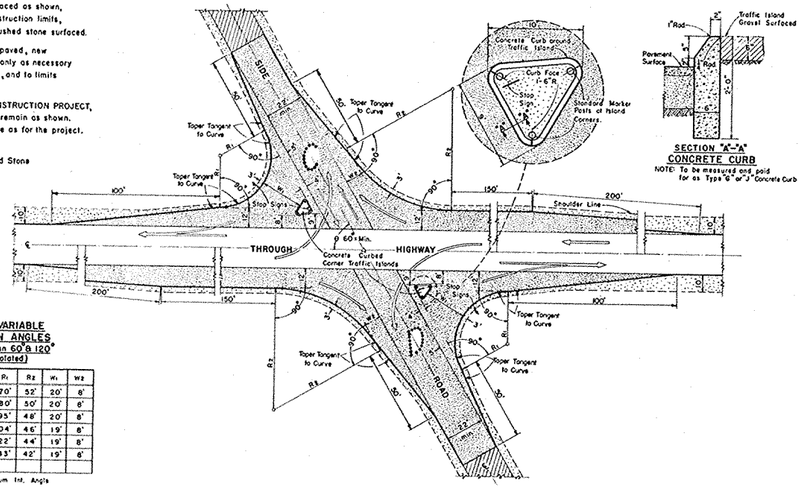
θ	R₁	R₂	W₁	W₂
95°	70'	52'	20'	8'
100°	80'	50'	20'	8'
105°	95'	48'	20'	8'
110°	104'	46'	19'	8'
115°	122'	44'	19'	8'
*120°	143'	42'	19'	8'

* 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



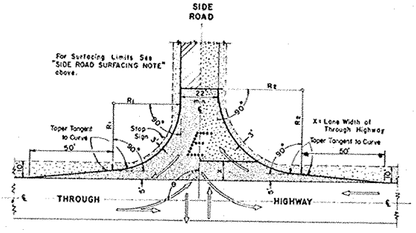


TABLE OF VALUES FOR VARIABLE SIDE ROAD INTERSECTION ANGLES
(Table Values for Angles between 60° & 120° not shown shall be interpolated)

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. 9-11.3

ESTIMATE OF QUANTITIES

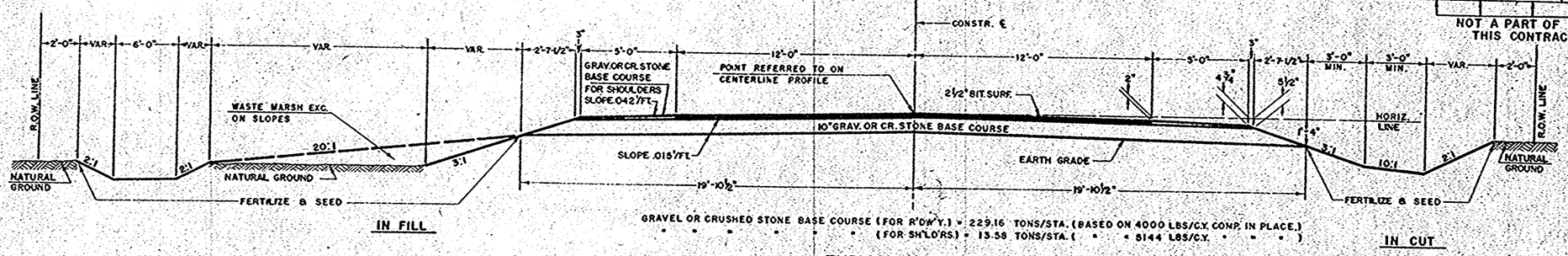
CONTRACT NO. I-2

PROJECT S 1264(3) E

THIS PROJECT IS TO BE EXECUTED UNDER THE STANDARD SPECIFICATIONS FOR ROAD AND BRIDGE CONSTRUCTION OF THE STATE HIGHWAY COMMISSION OF WISCONSIN — EDITION OF 1957 APPROVED AUG. 9, 1957 AND SPECIAL PROVISION AS ATTACHED TO PROPOSALS.

CONTRACT NO.	STATION TO STATION	NET LENGTH OF CENTER LINE	CLEARING		GRUBBING		EXCAVATION			FINISHING ROADWAY	OBLITERATING OLD ROAD	GRAVEL OR CRUSHED STONE BASE COURSE		CULVERT PIPE				C.M.P.A.			S.P.P.A.			M.R.M.	RIP RAP	M.R. DITCH CHECKS	STEEL PLATE BEAM GUARD	MARKER POSTS					BIT. MAT. FOR PRIME COAT	BIT. ROAD MIX SURF.	AGG. FOR BITUM. RD. MIX SURFACE	BIT. MATERIAL FOR SURFACE COURSE		CALCIUM CHLORIDE SURFACE TREATMENT	TOPSOIL		FERTILIZER	SEEDING
	ITEM NO.		2101-1	2101-2	2101-4	2101-5	2106-4	2106-5	2109-1	2114-1	2116-1	2203-1	2203-1	2411-1	2411-2	2411-3	2411-4	2411-31	2411-32	2411-33	2412-21	2412-22	2412-23	2409-2	2512-1	2516-3	2523-3	2523-5					2311-1	2313-1	2313-2	2313-3		2525-1	2528-1	2528-2	2531-1	2532-1
	UNIT	LIN. FT.	STA.	I.D.	STA.	I.D.	C.Y.	C.Y.	C.Y.	L.S.	STA.	TON	TON	LIN.FT.	LIN.FT.	LIN.FT.	LIN.FT.	LIN.FT.	LIN.FT.	LIN.FT.	LIN.FT.	LIN.FT.	LIN.FT.	C.Y.	C.Y.	C.Y.	LIN.FT.	EACH				GAL.	S.Y.	C.Y.	GAL.		TON	SQ.YD.	SQ.YD.	CWT.	SQ.YD.
1	300+12 - 264+59.8	25,606.2	16	1,233	16	1,387	44,032	91,199	50,116	1			62,870	2220	880	50		48	90		60	66	66	25		43	243	100															
																															10,940	72,950	9,530	127,450		36			139	154,250
2	300+12 - 264+59.8											62,870																													
1-2	300+12 - 264+59.8	25,606.2	16	1,233	16	1,387	44,032	91,199	50,116	1		62,870	62,870	2,220	880	50		48	90		60	66	66	25		43	243	100					10,940	72,950	9,530	127,450		36			139	154,250

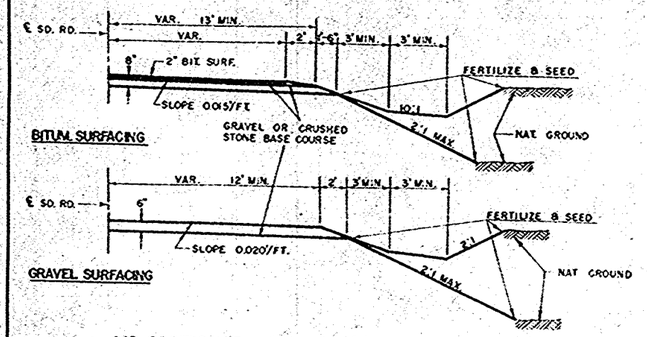
NOT A PART OF THIS CONTRACT



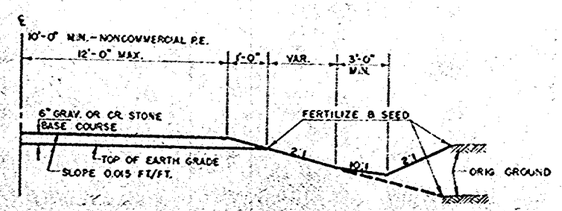
IN FILL — IN CUT

GRAVEL OR CRUSHED STONE BASE COURSE (FOR R'DW'Y.) = 229.16 TONS/STA. (BASED ON 4000 LBS/C.Y. COMP. IN PLACE.)
" " " " " " (FOR SH'LO'RS) = 13.58 TONS/STA. (" " = 8144 LBS/C.Y. " " ")

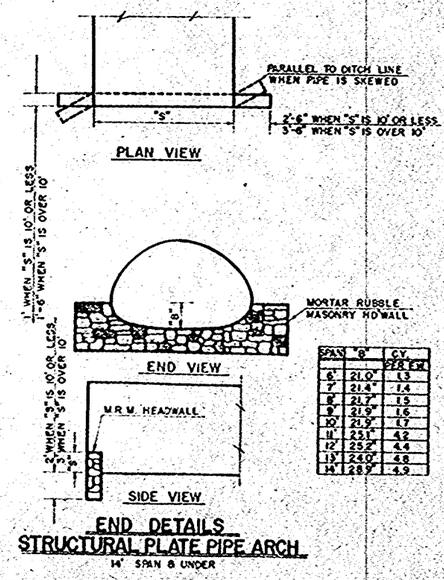
TYPICAL SECTION



1/2 SECTION FOR SD. RD'S.



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



SPAN	"S"	C.Y. PER L.F.
6'	21.0"	1.3
7'	21.4"	1.4
8'	21.7"	1.5
9'	21.9"	1.6
10'	21.9"	1.7
11'	23.1"	4.2
12'	25.2"	4.4
13'	24.0"	4.8
14'	28.9"	4.9

END DETAILS STRUCTURAL PLATE PIPE ARCH
14' SPAN & UNDER

STEEL PLATE BEAM GUARD			
STATION	TO	STATION	LIN. FT.
334+80	-	335+20 LT.	40.5
334+80	-	335+20 RT.	40.5
101+46	-	101+86 LT.	40.5
101+46	-	101+86 RT.	40.5
158+26	-	158+66 LT.	40.5
158+26	-	158+66 RT.	40.5

GRAVEL OR CRUSHED STONE BASE COURSE	
LOCATION	TON
CENTERLINE	58,700
P.E.'S & SD. RD'S. & SHOULDERS	4,170
	62,870

MARKER POSTS	
LOCATION	NO.
FOR CULVERTS	42
FOR SHOULDER DELINEATION	53
UNDISTRIBUTED	5

CULVERT PIPES				
STATION	LOCATION	DIA.	LIN. FT.	TYPE
303+84	℄	24"	50	C.P.
313+05	SD.RD.LT.	18"	40	"
321+50	P.E. LT.	18"	36	"
323+40	℄	24"	64	"
328+18	SD.RD.LT.	18"	44	"
335+00	℄	12'SPAN	66	S.P.P.A.
346+41	℄	30"	50	C.P.
349+26	SD.RD.LT.	18"	42	"
350+59	"	18"	54	"
357+07	"	18"	48	"
374+85	℄	24"	58	"
379+54	SD.RD.LT.	18"	50	"
379+54	SD.RD.RT.	18"	50	"
101+66	℄	10'SPAN	60	S.P.P.A.
129+07	℄	24"	50	C.P.
145+00	P.E. LT.	24"	30	"
148+00	"	24"	30	"
148+00	P.E. RT.	24"	30	"
157+45	P.E. LT.	24"	30	"
158+46	℄	13'SPAN	66	S.P.P.A.
159+75	P.E. LT.	24"	30	C.P.
159+75	P.E. RT.	24"	30	"
162+90	"	24"	30	"
162+90	P.E. LT.	24"	30	"
164+25	"	24"	30	"
166+75	"	24"	30	"
175+50	"	24"	30	"
175+50	P.E. RT.	24"	30	"
180+00	"	24"	30	"
183+25	P.E. LT.	24"	30	"
185+34	SD.RD.LT.	24"	40	"
204+00	℄	24"	52	"
211+20	℄	29"X18"	48	C.M.P.A.
221+34	℄	24"	74	C.P.
238+23	℄	24"	72	"
264+00	℄	36"X22"	60	C.M.P.A.
264+40	P.E. LT.	36"X22"	30	"
58 P.E.'S. EACH 18" X 32'			1,856	C.P.

STANDARD DETAIL DRAWINGS

DETAILS OF P.E. & SD. ROAD APPROACHES	1-3.1.1
MARSH EXCAVATION	1-1.1.2
S.P.P.A. & C.M.P.A.	6-5.3.1
MARKER POSTS	7-1.3.3
STEEL PLATE BEAM GUARD	7-2.4.7
CONSTRUCTION BARRICADE	7-4.1.2
MORTAR RUBBLE MASONRY DITCH CHECK	6-1.3.1
DESIGN & LAYOUT FOR SD.RD AT GRADE INTERSECS.	9-1.1.3

GENERAL NOTES

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

ON ALL HORIZONTAL CURVES THE NORMAL CROWN SHALL BE REMOVED AND THE PAVEMENT SURFACE BASE COURSE AND EARTH GRADE SHALL RESULT IN A STRAIGHT LINE SLOPE ACROSS THE ENTIRE WIDTH OF ROADBED. LONGITUDINAL DRAINAGE MUST BE MAINTAINED.

BITUMINOUS SURFACE NOT A PART OF THIS CONTRACT

CLEARING & GRUBBING				
STATION TO STATION	CLEARING		GRUBBING	
	STA.	I.D	STA.	I.D.
300+00 - 379+54.9		533		533
51+56.5 - 141+00		482		546
141+00 - 160+00	7		7	
160+00 - 175+00		54		54
175+00 - 186+00	9		9	
186+00 - 264+59.8		164		254
TOTALS	16	1,233	16	1,387

TYPICAL CROSS SECTION FOR

34 FT. ROADBED - 24 FT. BIT. PAV'T.

AND

MISCELLANEOUS CONSTRUCTION DETAILS

SCALE VARIABLE

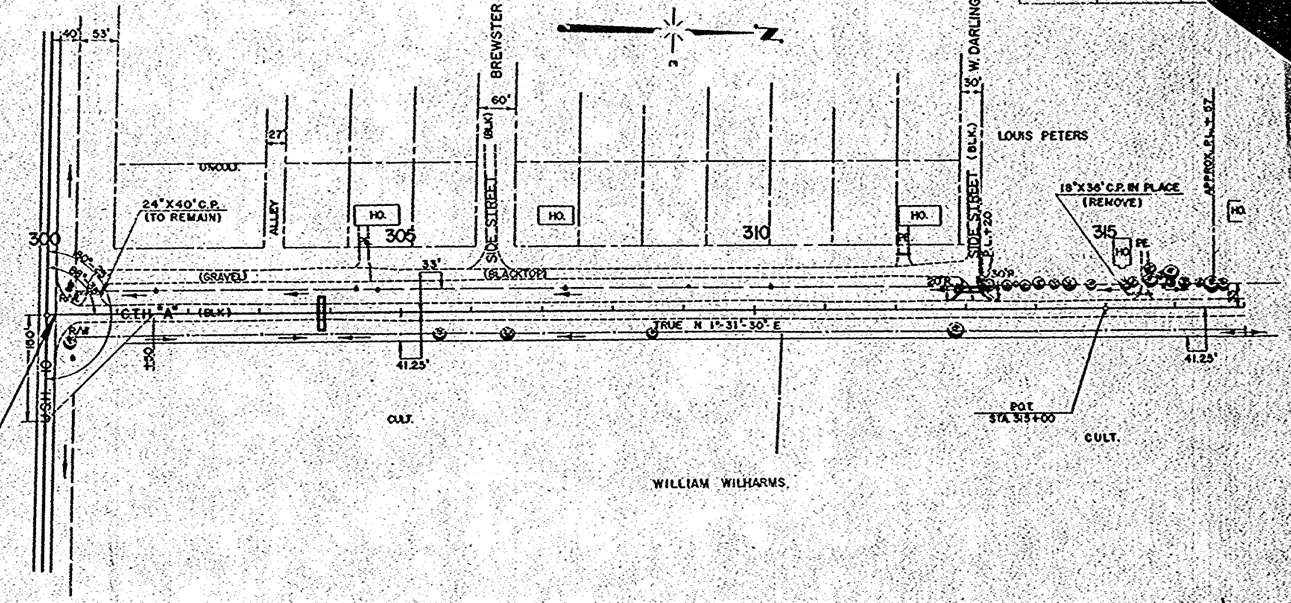
BENCH MARKS

NO.	STATION	DESCRIPTION	ELEV.
1	300+00	SPIKE IN 30" POPLAR 400' RT.	786.55
2	307+12	PT. MK. S.E. COR. BOTT. CONC. STEP 108' LT.	789.15
3	312+58	S.E. COR. CONC. FLOWER BED 110' LT.	791.42

NET LENGTH OF CENTERLINE		
STATION TO STATION		LIN. FT.
300+12	315+00	1,488

STA. 313+05 LT. SD. RD.
18"X40' C.P. REQ'D.

DIST. DIVISION	PROJECT	SHEET NUMBER
4	S 1254 (3)	



STA. 300+12 BEGIN OF
PROJ. S 1254 (3)

UNC. EXC. = 595 C.Y.
FILL = 418 C.Y.

UNC. EXC. = 736 C.Y.
FILL = 516 C.Y.

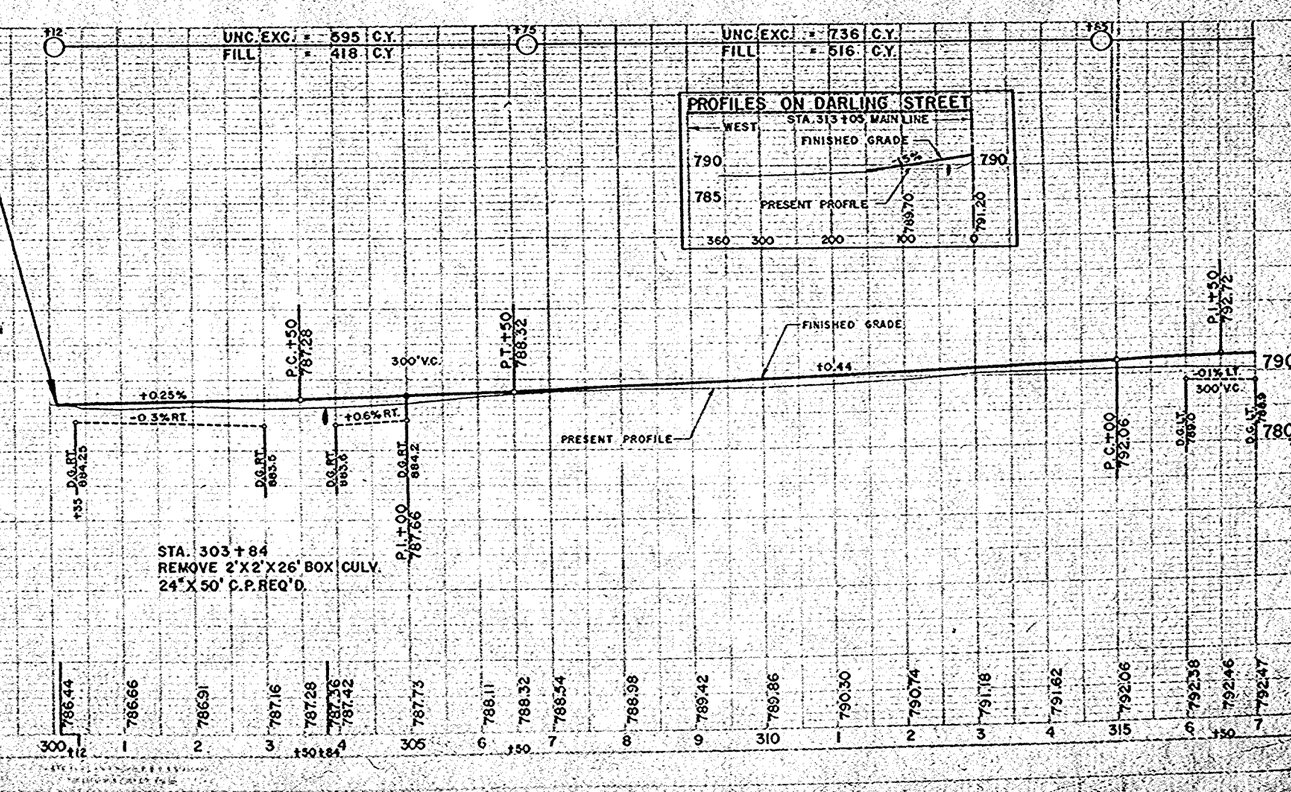
PROFILES ON DARLING STREET

GENERAL NOTES

THE EXACT LOCACATION OF PRIVATE ENTRANCES SHALL BE DETERMINED BY THE ENGINEER IN THE FIELD.
CUBIC YARDS OF FILL AS SHOWN ON PLAN SHEETS PERTAINS TO EMBANKMENTS CONSTRUCTED FROM UNC. EXCAVATION AND WAS COMPUTED WITH A SHRINKAGE ALLOWANCE VARYING FROM 20% TO 45%.

LEGEND

UNC. EXC.	UNCLASSIFIED EXCAVATION
P.E	PRIVATE ENTRANCE
F.E.	FIELD ENTRANCE
C.P.	CULVERT PIPE
C.M.P.A.	CORRUGATED METAL PIPE ARCH
S.P.P.A.	STRUCTURAL PLATE PIPE ARCH
D.G.	DITCH GRADE
SD.RD.	SIDE ROAD



P.F.A. Div. Rec'd	Project	Sht. No.
4	S 1234 (3)	4

BENCH MARKS

NO.	STATION	DESCRIPTION		ELEV.
4	317+80	SPIKE IN 8" ELM	44' LT.	790.12
5	320+68	SPIKE IN 20" APPLE	70' LT.	791.44
6	329+52	PT MK SE. COR BOT CONC. STP	72' LT.	783.99
7	334+87	SPIKE IN 18" MAPLE	82' RT.	779.59
8	341+16	SPIKE IN 14" POPLAR	45' LT.	782.30
9	345+06	PT MK ON CONC. STEP	60' LT.	784.26

STA. 321+50 LT. P.E.
REMOVE 10" X 18" C.P.
18" X 36" C.P. REQ'D.

STA. 328+18 LT. SD. RD.
REMOVE 18" X 40' C.P.
18" X 44' C.P. REQ'D.

LOUIS PETERS | GORDON PETERS | LOUIS PETERS | JOHN CALNIN | RICHARD REINKE | FREDINAND ULMAN | GLENDALE AVE. (GRAV.) | NORBERT SCHROEDER | ALFRED LANGE | NORMAN ROSENOW | GEORGE SMITH | CLIFFORD SMITH | NORMAN BEYER | FREDINAND ULMAN | ALEXANDER RAICHE | DONALD PAULUS | EDWARD P. FRIEDERS

C.P.IN PLACE (REMOVE) | 18"X24" C.P. (REMOVE) | 10"X18" C.P. (REMOVE) | 18"X20" C.P. (REMOVE) | 18"X14" C.P. (REMOVE) | 18"X20" C.P. (REMOVE) | 18"X24" C.P. (REMOVE) | 15"X26" C.P. (REMOVE) | 18"X20" C.P. (REMOVE) | 15"X20" C.P. (REMOVE) | 18"X24" C.P. (REMOVE) | 12"X16" C.P. (REMOVE) | 12"X24" C.P. (REMOVE) | 15"X20" C.P. (REMOVE) | 15"X20" C.P. (REMOVE) | 18"X20" C.P. (REMOVE)

315 | EXIST. R/W | LAWN | APPROX. P.I. +57 | APPROX. P.I. +89 | 320 | P.I. +90 | 325 | APPROX. P.I. +64 | APPROX. P.I. +46 | 330 | P.I. +23 | P.I. +08 | P.I. +03 | APPROX. P.I. +03 | 335 | P.I. +08 | 340 | P.I. +84 | APPROX. P.I. +14 | P.I. +14 | LAWN | 345 | P.I. +93

C.T.H. "A" (BLK) | 41.25' | R/W | BUSHES | P.E. | CULT. | POST | GAS LINE MARKER POST | SHRUB | HIGH PRESSURE GAS LINE MARKER POST | 24"X20" C.P. (REMOVE) | 24"X14" C.P. (REMOVE) | 33' | N 1°-35' E | WIRE REV. W | 15"X20" C.P. (REMOVE) | 18"X24" C.P. (REMOVE) | 45' | O/W | 12"X24" C.P. (REMOVE) | POLE FENCE | BOARD FENCE | LOW & SWAMPY

P.O.T. STA. 315+00 | P.I. = STA. 326+53.8 L = 180°-03'-30" | P.I. +71.6 BOARD FENCE | P.I. +51.5 BOARD FENCE | P.I. -53.8 | P.I. +64 | P.I. +85 | P.O.T. STA. 342+00

WILLIAM WILHARMS | IRA W. LIVINGSTON | IRA M. LIVINGSTON | IRA W. LIVINGSTON | MELVIN SCHMIDT | RAYMOND J. BODWAY

NET LENGTH OF CENTRLINE		
STATION TO STATION		LIN. FT.
315+00	345+00	3,000

UNC. EXC. = 2,063 C.Y.
FILL = 1,586 C.Y.

UNC. EXC. = 456 C.Y.
FILL = 976 C.Y.
BORROW = 754 C.Y.

UNC. EXC. = 1,869 C.Y.
FILL = 1,403 C.Y.

PROFILES ON GLENDALE AVE.
WEST — STA. 328+18 MAINLINE FINISHED GRADE — EAST
785 | -1.9% | 785 | PRESENT PROFILE | 786.63 | 200 | 100

PROFILE — HORIZ. SCALE 1"=100' — VERT. SCALE 1"=10' — STRUCTURE NO(S) AS SHOWN — NO. 236

790 | 780 | 770

P.I. +50 792.72 | -0.26% | -0.1% LT | -0.3% RT | -0.5% LT | P.C. +00 792.06 | 900 LT | 500' V.C. | 00 LT 788.0 00 RT 788.6 | P.T. +00 792.33 | STA. 323+40 REMOVE 2'X2'X26' BOX CULV. 24" X 64' C.P. REQ'D. | 00 LT 785.9 00 RT 786.0 | P.C. +50 790.90 | 00 LT 785.5 00 RT 786.5 | +0.13% RT | +0.12% LT | 400' V.C. | 00 LT 786.7 00 RT 786.7 | P.I. +50 790.38 | -1.40% | P.T. +50 787.58 | 00 LT 784.0 | 00 LT 782.0 00 RT 782.4 | P.C. +50 784.78 | 300' V.C. | PRESENT PROFILE | P.I. +00 782.68 | 00 RT 779.8 | 00 RT 779.8 | -0.4% RT | -0.6% RT | -0.4% LT | -2.2% RT | -0.2% RT | 00 LT 778.5 | 00 RT 777.4 | FINISHED GRADE | -0.4% | 00 RT 776.3 | 00 LT 777.0 | P.C. +00 781.58 | 200' V.C. | P.T. +00 781.82 | +0.34% | P.C. +00 782.34

STRUCTURAL PLATE PIPE ARCH
STA. 335+00
℄ R'DWY.
33' | 33' | 66' | PAYMENT BASIS

STA. 335+00
REMOVE (2 SPAN BR. TYPE CULV.
12' SPAN X 66' S.P.P.A. REQ'D.
7 GAGE INL. = 773.4 DIS. = 773.4
SKEW 15° R.H.F.

STA. 346+41
REMOVE 24"X30' C.P.
30"X50' C.P. REQ'D.

315 | 6 | +50 | 7 | 8 | 9 | 320 | 1 | 2 | 3 | +40 | +50 | 4 | 325 | +50 | 6 | 7 | +50 | 8 | +50 | 9 | +50 | 330 | +50 | 1 | +50 | 2 | +50 | 3 | +50 | 4 | 335 | +50 | 6 | +50 | 7 | +50 | 8 | +50 | 9 | +50 | 340 | +50 | 1 | +50 | 2 | +50 | 3 | +50 | 4 | +50 | 345 | +50 | 6 | +50 | 7

B.F.A. DIVISION	PROJECT	S.
4	S 1254 (3)	

BENCH MARKS

NO.	STATION	DESCRIPTION		ELEV.
9	345+06	PT. MK. ON CONC. STEP	60' LT.	784.26
10	350+84	PT. MK. E. COR. GAS ISL.	80' LT.	786.66
11	356+31	SPIKE IN 12" ELM	90' LT.	791.98
12	360+53	PT. MK. SE. COR. BOTT. CONC. STP.	70' LT.	793.38
13	369+35	SPIKE IN 30" BOX ELDER	40' RT.	793.27

NET LENGTH OF CENTERLINE		
STATION TO STATION		LIN. FT.
345+00	375+00	3,000

STA. 350+59 LT. SD. RD.
REMOVE 18"X32' C.P.
18"X54' C.P. REQ'D.

STA. 357+07 LT. SD. RD.
REMOVE 18"X42' C.P.
18"X48' C.P. REQ'D.

STA. 349+26 LT. SD. RD.
REMOVE 15"X32' C.P.
18"X42' C.P. REQ'D.

15"X20' C.P. (REMOVE)
15"X20' C.P. (REMOVE)
18"X16' C.P. (REMOVE)
15"X16' C.P. (REMOVE)
24"X64' C.P. IN PLACE (TO REMAIN)
18"X16' C.P. (REMOVE)
18"X20' C.P. (REMOVE)
18"X18' C.P. (REMOVE)
18"X18' C.P. (REMOVE)

HEATHER AVE. (BLK.)
FIRST AVE. (GRAV.)
HIGHWAY DRIVE
D'WAIN R. GLASER
TWIN WILLOW SCHOOL SCHOOL DIST. NO. 3
SCHOOL YARD
EOT STA. 376+00
CULT.
GARDEN
STORE
GAS SIGN
HO.
G.
B.
H.
POST
STUMPS
R/W
F.E.
P.L.
P.C.
P.I.
P.T.
TREES
40'R.
33'
41.25'
120'R.
N 4°-25' E
ICTH "A" 18W
U.S.H. 41 (CONC.)
P.I. STA 353+076
Δ = 18°-50'
CONC. SLAB. CULV.
LOW & SWAMPY
RAYMOND J. BODWAY
EDWARD SCHWALBACH
KENNETH MERKES
WALTER MERKES
ANNA HAVEISTER
HERMAN HAVEISTER
RANDALL H. REUSS
345
350
355
360
365
370
375

UNC. EXC. = 956 C.Y.
FILL = 705 C.Y.

UNC. EXC. = 733 C.Y.
FILL = 615 C.Y.

UNC. EXC. = 3,168 C.Y.
FILL = 2,188 C.Y.

PROFILES ON HEATHER AVE.
WEST — EAST
STA. 349+26 MAIN LINE
-1.5%
PRESENT PROFILE
FINISHED GRADE
785
780
784.27
300 200 100

PROFILES ON FIRST AVE.
WEST — EAST
STA. 357+06 MAINLINE
+5%
PRESENT PROFILE
FINISHED GRADE
795
790
791.02
300 200 100

PROFILES ON HIGHWAY DRIVE
STA. 350+33 MAINLINE
-0.2%
PRESENT PROFILE
FINISHED GRADE
WEST — EAST
785
780
785.43
300 200 100

400' V.C.
300' V.C.
+0.34%
+1.40%
+0.50%
+0.7% RT.
+0.3% RT.
-0.26%
-0.16%
-1.0% LT. & RT.
+1.0% RT.
+1.0% LT.
+0.6% LT.
FINISHED GRADE
PRESENT PROFILE
790
780

P.C. +00 782.84
P.I. +00 783.51
P.T. +00 786.31
P.I. 97.6 789.08
P.I. 176 789.08
D.C. RT. 786.2
D.C. RT. 786.9
D.C. RT. 787.6
P.I. +00 794.99
D.C. RT. 790.4
P.C. +00 793.99
P.T. +00 794.47
P.C. +00 792.91
P.I. +50 792.32
P.T. +00 792.72
D.C. LT. & RT. 789.5
D.C. LT. & RT. 788.5
D.C. LT. 787.6
D.C. RT. 788.6
D.C. LT. 788.2
D.C. LT. & RT. 788.2

782.16 782.33 782.30 782.67 782.84 783.04 783.31 783.65 784.04 784.51 785.04 785.64 786.31 787.01 787.71 788.30 789.08 789.08 789.49 789.99 790.49 790.99 791.49 791.99 792.49 792.99 793.48 793.99 794.40 794.61 794.64 794.47 794.21 793.95 793.69 793.43 793.17 792.91 792.72 792.67 792.66 792.72 792.86

345 +50 6 +50 7 +50 8 +50 9 +50 350 +50 1 +50 2 +56 +37.6 3+17 4 355 6 7+06 8 9 791.02 360 1 2 3 4 365 6 7 8 9 370 1 2 3 4 +50 375 6 7

STA. 346+41
REMOVE 24"X30' C.P.
30"X50' C.P. REQ'D.

STA. 374+85
REMOVE 24"X30' C.P.
24"X58' C.P. REQ'D.

PLAN — SURVYD. DRAWN. CHKD. — NOTE BOOK NO. 216 — R.C.M. W.C.M.
PROFILE — SURVYD. DRAWN. CHKD. — NOTE BOOK NO. 216 — R.C.M. W.C.M.

B.P.R. DIVISION	PROJECT	STATE NO.
4	S 1254(3)	WISC.

BENCH MARKS

NO.	STATION	DESCRIPTION		ELEV.
51 A	50+00	SPIKE IN 30" MAPLE	42' RT.	794.04
51 B	59+40	SPIKE IN 12" MAPLE	50' LT.	794.09
51	64+35	SPIKE IN 14" ASH	165' LT.	788.26
51 C	76+42	PT. MK. SW. COR. BOX CULV.	14' LT.	792.80

STA. 379+54 LT. SD.RD.
18" X 50' C.P. REQ'D.

N

TWIN WILLOW SCHOOL
SCHOOL DIST. NO. 3
18" X 24" C.P. (REMOVE)
15" X 30" C.P. (REMOVE)
SCHOOL YARD
SCHOOL
FLAG POLE
ANNA HAMISTER
EQUATION
PI. STA 379+54.9 BK. =
STA 51+56.5 STUB LINE AH.
L = 179°-56'-30"
EWALD
GREVE
EUGENE
DORN
CURVE NOTES
PI. = 78+07.2
L = 177°-51'
Δ = 2°-09'
D = 0°-15'
T = 430.0'
L.C. = 860.0'
EQUATION:
PC-STA 73+77.2 STUB LINE CTH "A" BK. =
STA 73+77.2 AH.
CULV.
UNCULV.
POST
STUMP
CTH "A" (BLK)
41.25'
45'
60'
R/W
P.E.
CONC.
18" X 20' C.P. (REMOVE)
TREE & STUMPS
HO.
WEST CAPITOL DRIVE (BLK)
N 4°-21'-30" E
POST STA 65+00
STA 66+08.5 CTH "A"
STA 668+01.45 USH 41
USH 41
WALTER MERKES
RANDALL REUSS
JOSEPH C. GRIESBACH
RICHARD TESCH
GEORGE STURM
P.I. sta. 7.57
P.I. sta. 4.00
P.I. sta. 8.81
P.I. sta. 11.18
P.I. sta. 11.13
P.I. sta. 7.07
375
55
60
65
70
75

NET LENGTH OF CENTERLINE		
STATION	TO STATION	LIN. FT.
375+00	379+549	454.9
51+56.5	55+00	343.5

STA. 379+54 RT. SD.RD.
18" X 50' C.P. REQ'D.

EXCEPTION:
STA. 55+00 TO STA. 91+40
(NOT A PART OF THIS PROJECT)

PLAN
SURVEYED
NOTE BOOK
NO. 218

PROFILE
SURVEYED
NOTE BOOK
GRADE CHECKED
PLANS MADE
NO. 218

R.D.N. 8-28
R.E.N. 9-59
K.E.M.

PROFILES ON WEST CAPITOL DRIVE

WEST
STA 379+54.9 MAIN LINE
PRESENT PROFILE
EAST
FINISHED GRADE
+1.00%
-1.5%
-1.35%
+1.00%
795
790
300 200 150 79275 30 0 30 79275 150 200 300
79320 79345

PT. +00
792.72
+0.136%
+1.0% RT.
+1.0% LT.
+1.06% LE
DGE 787.6
CURB 787.6
EGLT 786.6
D.C. STA 787.2
D.C. HT. 786.8
PRESENT PROFILE
FINISHED GRADE
+0.72%
P.I. +50
793.56
+0.13%
+0.8% RT.
+0.15% CK. RT. LT.
D.C. PT. 789.4
CK. RT. LT. 788.35
790

375 6 7 8 9 380 1 2 3 4 55 6 7 8 9 60 1 2 3 4 65 6 7 8 9 70 1 2 3 4 75 6 +50 7 8 9
792.86 792.72 792.36 793.00 793.12 793.20 793.26 793.39 793.46 793.53 793.87 793.65 793.03

EQUATION
STA 379+54.9 BK. =
STA 51+56.5 STUB LINE AH

STA 73+77.2 STUB LINE CTH "A" BK. =
STA 73+77.2 MAIN LINE AH

PLATE I - PLAN - PROFILE & PARTS

B.P.R. DIVISION	PROJECT	SPC. NO.
4	S 1254(3)	7

BENCH MARKS

NO.	STATION	DESCRIPTION		ELEV.
51C	76+42	PT. MK. S.W. COR. BOX CULV.	14' LT.	792.80
51D	83+15	SPIKE IN 14" APPLE	65' LT.	794.01
14	94+70	SPIKE IN 8" BOX ELDER	75' LT.	801.17
15	97+80	SPIKE IN 15" BOX ELDER	85' RT.	800.07
16	103+70	SPIKE IN POWER POLE	65' LT.	799.12

EXCEPTION:
STA. 55+00 TO STA. 91+40
(NOT A PART OF THIS PROJECT)

CURVE NOTES
PI = 78+07.2
Δ = 177°-51'
D = 2°-09'
T = 4300'
LC = 8600'

EUGENE W. DORN
APROX. 50 C.Y. RIP RAP REQ'D.
CULT.
CLAUDE WARNER
UNCULT.
℄ CH.CH.
PT = STA. 82+37.2
18" X 20' C.P. (REMOVE)
EDWARD N. DORN
CULT.
3-36" X 30' C.P. TO REMAIN
TREES
POT STA. 93+00
12" X 18' C.P. (REMOVE)
15" X 18' C.P. (REMOVE)
WILLIAM KOHL
15" X 18' C.P. (REMOVE)
PI = STA. 104+73.3
Δ = 180°-11'
75 80 85 90 95 100 105
60'
41.25'
POST
FE.
R/W
HOTEL "A"
72" SPAN CONC. BOX CULVERT - TO REMAIN
GEORGE STURM
AUGUST BERGEMAN
12" X 16' C.P. (REMOVE)
TEMP CONNECTION
STA. 83+00 RT.
APPROX. 45 C.Y. RIP RAP REQ'D.
R = 2°-42'-30" L
CULVERT
STUMP
EUGENE BECKER
EARL KOHL

CHANNEL CHANGE STA. 76+50-83+45
VAR.
REFERENCE LINE CH. CH.
42'
℄ R/W'Y
NAT. GRD.
FERTILIZE & SEED
2:1
10:1
RIP-RAP (WHERE REQ'D)
12'

NET LENGTH OF CENTERLINE		
STATION TO STATION		LIN. FT.
91+40	105+00	1,360

NOT A PART OF THIS PROJECT

UNC. EXC. = 1,916 C.Y.
FILL = 3,306 C.Y.
BORROW = 2,260 C.Y.

UNC. EXC. = 524 C.Y.
FILL = 367 C.Y.

UNC. EXC. = 1,546 C.Y.
FILL = 1,148 C.Y.

UNC. EXC. = 512 C.Y.
FILL = 1,568 C.Y.
BORROW = 1,390 C.Y.

800
790
+0.72%
+0.19%
+0.52%
+0.24%
-0.11%
-0.73%
+0.33%
+0.10%
+0.35% C.H. LT.
+0.6% RT.
+0.3% RT.
+1.0% RT.
+2.0% RT.
-1.0% RT.
-1.0% LT.
+1.0% LT.
+0.35% RT.
200' V.C.
300' V.C.
PRESENT PROFILE
FINISHED GRADE
PI +50 794.56
PC +90 795.96
PT +90 796.87
PI +00 799.84
PC +00 799.32
PT +00 800.08
PI +00 802.24
PC +50 801.75
PT +50 802.08
O.G. RT. 791.8
O.G. RT. 794.8 C.H. LT. 793.30
C.H. LT. 793.25
O.G. RT. 795.0
O.G. RT. 796.6
O.G. RT. 796.8
O.G. LT. 797.4
O.G. RT. 797.8
O.G. LT. 797.4
O.G. LT. 796.5
O.G. RT. 796.8
O.G. RT. 797.2
O.G. LT. 796.9
O.G. RT. 797.6

75 6+50 7 8 9 80 1 2 3 4 85 6 7 8 9 90 1 2 3 4 95 6 7 8 9 100 +50 1 2 3 4 105 6 +50 7
793.48 794.20 794.56 794.65 794.84 795.03 795.22 795.41 795.60 795.79 795.99 796.23 796.26 796.72 797.24 797.76 798.28 798.80 799.32 799.77 800.08 800.32 800.56 800.80 801.04 801.28 801.52 801.76 801.88 801.99 802.11 802.12 802.08 802.02 801.81 801.80 801.75 801.75

℄ R/W'Y
30' 30'
60'
PAVEMENT BASIS
STRUCTURAL PLATE PIPE ARCH
STA. 101+66

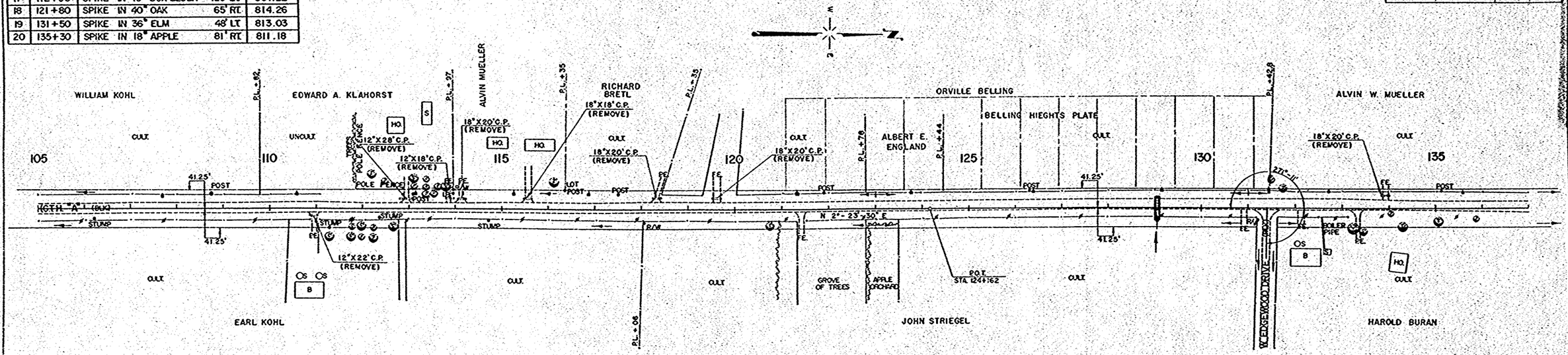
STA. 101+66
REMOVE CONC. CULV. IN PLACE
10' SPAN X 60' S.P.P.A. REQ'D.
8 GAGE INL. = 794.2 DIS. = 794.2

PLAN
PROFILE
R.D.N.
R.E.P.
W.E.M.
8-58
9-58
6-59
NOTE BOOK
NO. 215
PLATE I - PLAN - PROFILE OF ROAD

B.P.R. DIVISION	PROJECT	SHEET NUMBER	TOTAL SHEETS
4	S 1254 (3)	8	47

BENCH MARKS

NO.	STATION	DESCRIPTION		ELEV
17	112+90	SPIKE IN 18" BOX ELDER	120' LT.	807.22
18	121+80	SPIKE IN 40" OAK	65' RT.	814.26
19	131+50	SPIKE IN 36" ELM	48' LT.	813.03
20	135+30	SPIKE IN 18" APPLE	81' RT.	811.18

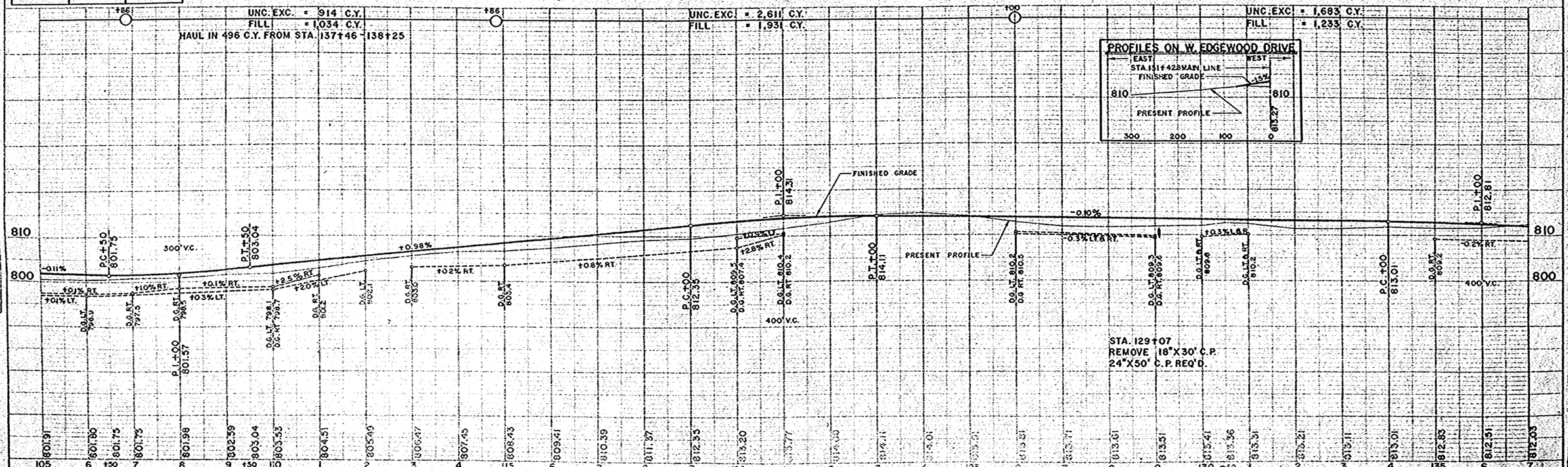


NET LENGTH OF CENTERLINE		
STATION TO STATION		LIN FT.
105+00	135+00	3,000

UNC. EXC. = 914 C.Y.
FILL = 1,034 C.Y.
HAUL IN 496 C.Y. FROM STA. 137+46 - 136+25

UNC. EXC. = 2,611 C.Y.
FILL = 1,931 C.Y.

UNC. EXC. = 1,683 C.Y.
FILL = 1,233 C.Y.



B.P.R. DIVISION	PROJECT	SHT. NUM.
4	S 1234 (3)	9

BENCH MARKS

NO.	STATION	DESCRIPTION		ELEV
20	135+30	SPIKE IN 18" APPLE	81' RT.	811.18
21	140+18	PT. MK. N.E. COR CONC. STEP	57' LT.	812.72
22	145+10	SPIKE IN 16" ELM	60' LT.	802.35
23	151+75	SPIKE IN 10" ELM	54' LT.	802.25
24	159+08	SPIKE IN 8" ELM	44' RT.	802.91
25	163+70	SPIKE IN 18" ELM	66' RT.	804.38

PLAN
R.D.A. 9-59
W.E.M. 9-59
NOTE BOOK, CROSS SECTIONS, NO. 215

STA. 145+00 P.E. LT. 24" X 30' C.P. REQ'D.
STA. 148+00 P.E. LT. 24" X 30' C.P. REQ'D.
STA. 157+45 P.E. LT. 24" X 30' C.P. REQ'D.
STA. 159+75 P.E. LT. 24" X 30' C.P. REQ'D.
STA. 162+90 P.E. LT. 24" X 30' C.P. REQ'D.
STA. 164+25 P.E. LT. 24" X 30' C.P. REQ'D.
STA. 166+75 P.E. LT. 24" X 30' C.P. REQ'D.

CURVE NOTES
PI = 141+71.5
L = 145°-28'
Δ = 34°-32'
D = 6°-00'
T = 296.9
L.C. = 575.6'
S.E. = 0.080'

ALVIN W. MUELLER
RAY J. ULMAN JR.
WOODS & SWAMP
ST. THERESE CONG.
JOHN HEENAN
WOODS & SWAMP
GREEN TOP INC.
RICHARD GANZAN
WOODS & SWAMP
BLACK ACRES HUMUS INC
SWAMP & BRUSH
HAROLD BURAN
FRANK E. SHORT
BRUSH & SWAMP
TREES & BRUSH
SWAMP
TREES
F. PETERSON
CABIN
CULT.
APPROX. P.L.
APPROX. BRUSH & SWAMP
APPROX. P.L. + 33
APPROX. P.L. + 15
P.C. = STA. 138+74.5
P.T. = STA. 144+50.2
N 32°-08'-30" W
R/W
P.E.
P.C.
P.O.T. STA. 159+00
GUARD FENCE
POST
FE.
12" X 16' C.P. (REMOVE)
24" X 9' C.P. (REMOVE)
18" X 20' C.P. (REMOVE)
15" X 24' C.P. (REMOVE)
41.25'
66'
33'

NET LENGTH OF CENTERLINE

STATION TO STATION		LIN. FT.
135+00	165+00	3,000

UNC. EXC. = 2,091 C.Y.
FILL = 1,626 C.Y.
MARSH EXC. = 508 C.Y.

UNC. EXC. = 498 C.Y.
FILL = 1 C.Y.
HAUL OUT 496 C.Y. TO STA. 106+86 - 114+86

UNC. EXC. = 3,321 C.Y.
FILL = 29,655 C.Y.
MARSH EXC. = 16,724 C.Y.
BORROW = 31,200 C.Y.

PROFILE
R.D.A. 9-59
W.E.M. 9-59
NOTE BOOK, GRADE CHECKS, CROSS SECTIONS, NO. 216

P.I. + 00 812.81
P.T. + 00 811.41
P.C. + 50 806.86
P.T. + 50 805.59
P.I. + 00 805.81
P.C. + 50 804.54
P.T. + 50 804.59
P.I. + 00 804.31
300' V.C.
400' V.C.
0.70%
-0.2%
-0.15%
-0.1% RT.
-0.3% RT.
+0.19
+0.5% LT.
+0.2% RT.
FINISHED GRADE
PRESENT PROFILE
0.6 RT. 807.9
0.6 RT. 802.3
0.6 RT. 801.6
0.6 RT. 794.5
0.6 RT. 801.1
0.6 LT. 801.6
0.6 LT. 802.0

STA. 158+46
REMOVE 10' X 36' C.P.
13' SPAN X 66' S.P.P.A. REQ'D.
5 GAGE INL. = 795.2 DIS. = 795.2

R'D'WY
33 — 66 — 33
PAYMENT BASIS
STRUCTURAL PLATE PIPE ARCH
STA. 158+46

| | | |

B.R. DIVISION	PROJECT	SHEET NUMBER	TOTAL SHEETS
4	S 1254(3)	10	47

BENCH MARKS

NO.	STATION	DESCRIPTION		ELEV.
26	177+10	SPIKE IN 8" POPLAR	63' LT	804.09
27	184+18	SPIKE IN 14" ELM	75' LT	807.72
28	189+10	SPIKE IN POWER POLE	39' RT	823.63
29	195+18	SPIKE IN POWER POLE	50' RT	837.04

STA. 166+75 P.E. LT.
24" X 30" C.P. REQ'D.

STA. 175+50 P.E. LT
24" X 30" C.P. REQ'D.

STA. 183+25 P.E. LT
24" X 30" C.P. REQ'D.

STA. 185+34 LT.
REMOVE 33' C.P.
24" X 40" C.P. REQ'D.

STA. 175+50 P.E. RT
24" X 30" C.P. REQ'D.

STA. 180+00 P.E. RT
24" X 30" C.P. REQ'D.

BLACK ACRES HUMUS INC.
JOHN HEENAN
FRANCIS SLOMSKA
ARTHUR KLEPPS
CHARLES KUBA
ELMER F. SCHROEDER
W. BROADWAY DR. (C.T.H. "A")
BRUSH & SWAMP
WOODS & SWAMP
LOW SWAMP
CULT.
APPROX. P.L.
P.L.
R/W
POST
FE
HO
POT STA. 171+00
POT STA. 194+00
PC = STA. 182+10.5
PT = STA. 190+95.1
N. 32°-08'-30" W
N 3°-14'-30" E
66'
70'
50'
CURVE NOTES
P.I. = 186+67.5
L = 215°-23'
Δ = 35°-23'
D = 4°-00'
T = 457.0'
L.C. = 884.6'
S.E. = 0.076'/'

NET LENGTH OF CENTERLINE		
STATION TO STATION		LIN. FT.
165+00	195+00	3,000

UNC. EXC. = 2,585 CY
FILL = 31,307 CY
MUCK = 22,818 CY
HAUL IN 34,630 CY FROM STA. 189+82 - 196+27

UNC. EXC. = 8,336 CY
FILL = 6,939 CY
MUCK = 3,982 CY

UNC. EXC. = 34,630 CY
FILL = 0 CY
HAUL OUT 34,630 CY. TO STA. 159+94 - 179+00

PROFILES ON W. BROADWAY DR.
WEST ← EAST
STA. 185+34 MAINLINE FINISHED GRADE 0.00%
PRESENT PROFILE
+2.6%
815
810
330 200 100 +26
311.84
808.86

FINISHED GRADE
PRESENT PROFILE
+0.19%
+0.2% RT.
+0.18%
+1.50%
500' V.C.
300' V.C.
0.6' RT.
P.I. +50 807.82
P.C. +00 807.54
P.T. +00 808.01
P.C. +00 808.83
P.I. +00 812.88
P.I. +50 808.13
P.C. +00 828.38
820
810
800
830

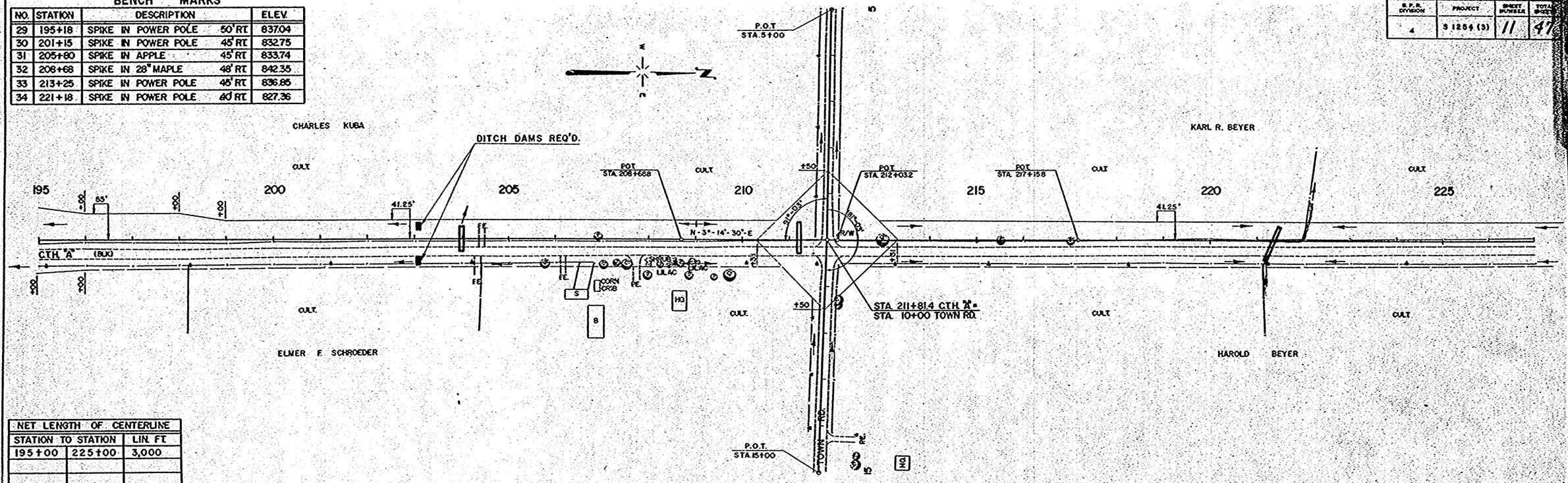
165 6 7 8 9 170 1 2 3 4 +50 175 6 7 8 9 180 1 2 3 4 185 1/2 6 7 8 9 190 1 2 3 4 195 6 7

806.02 806.21 806.40 806.59 806.78 806.97 807.16 807.35 807.54 807.72 807.80 807.88 808.01 808.13 808.24 808.36 808.48 808.60 808.72 808.83 808.95 808.82 808.96 808.99 809.43 811.52 812.88 814.38 815.88 817.38 818.88 820.38 821.88 823.38 824.88 828.38

B.F.P. DIVISION	PROJECT	SHEET NUMBER	TOTAL SHEETS
4	9 1284 (3)	11	47

BENCH MARKS

NO.	STATION	DESCRIPTION		ELEV.
29	195+18	SPIKE IN POWER POLE	50' RT.	837.04
30	201+15	SPIKE IN POWER POLE	45' RT.	832.75
31	205+80	SPIKE IN APPLE	45' RT.	833.74
32	208+68	SPIKE IN 28" MAPLE	48' RT.	842.35
33	213+25	SPIKE IN POWER POLE	45' RT.	836.85
34	221+18	SPIKE IN POWER POLE	40' RT.	827.36



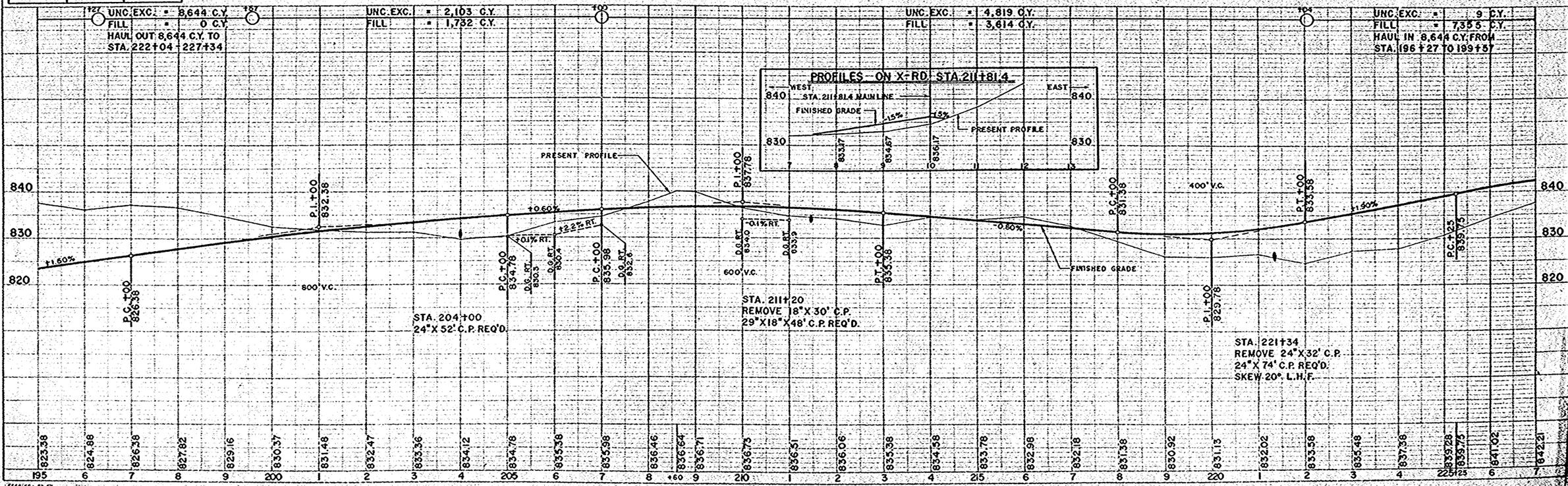
NET LENGTH OF CENTERLINE		
STATION TO STATION		LIN. FT.
195+00	225+00	3,000

UNC. EXC. = 8,644 C.Y.
FILL = 0 C.Y.
HAUL OUT 8,644 C.Y. TO STA. 222+04 - 227+34

UNC. EXC. = 2,103 C.Y.
FILL = 1,732 C.Y.

UNC. EXC. = 4,819 C.Y.
FILL = 3,614 C.Y.

UNC. EXC. = 9 C.Y.
FILL = 7,355 C.Y.
HAUL IN 8,644 C.Y. FROM STA. 196+27 TO 199+57



195	6	7	8	9	200	1	2	3	4	205	6	7	8	9	210	1	2	3	4	215	6	7	8	9	220	1	2	3	4	225	6	7
823.38	824.88	826.38	827.82	829.16	830.37	831.48	832.47	833.36	834.12	834.78	835.38	835.98	836.46	836.64	836.71	836.73	836.51	836.06	835.38	834.58	833.78	832.98	832.18	831.38	830.92	831.13	832.02	833.58	835.48	837.38	839.28	841.02	842.21

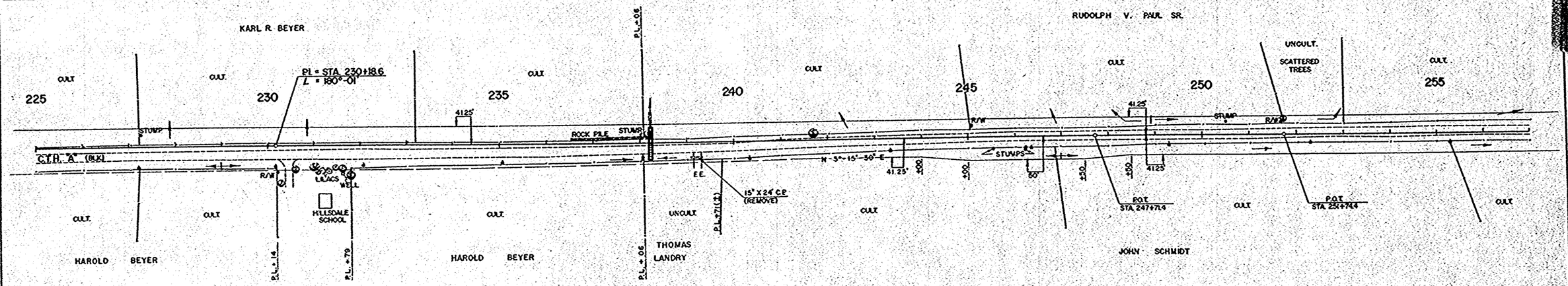
PLATE & PLAN PROFILE & PARTS

B.P.R. DIVISION	PROJECT	SHEET NUMBER	TOTAL SHEETS
4	S 1254 (3)	12	47

BENCH MARKS

NO.	STATION	DECRIPTION		ELEV.
35	227+18	SPIKE IN POWER POLE	45' RT	840.41
36	231+40	SPIKE IN 8" ELM	42' RT	844.04
37	238+20	SPIKE IN 10" TWN ELM	100' LT	818.64
38	240+32	SPIKE IN POWER POLE	33' RT	827.41
39	251+88	SPIKE IN 8" ELM	52' LT	831.77

PLAN — R.O.W. 8-58, W.E.M. 9-58 — ROUTE HOOK, SURVEYED, PLANS CHECKED, R.O.W. PLANS CHECKED, NO. 215



NET LENGTH OF CENTERLINE		
STATION TO STATION		LIN FT.
225+00	255+00	3,000

PROFILE — SURVEYED, PLANS CHECKED, R.O.W. PLANS CHECKED, NO. 216

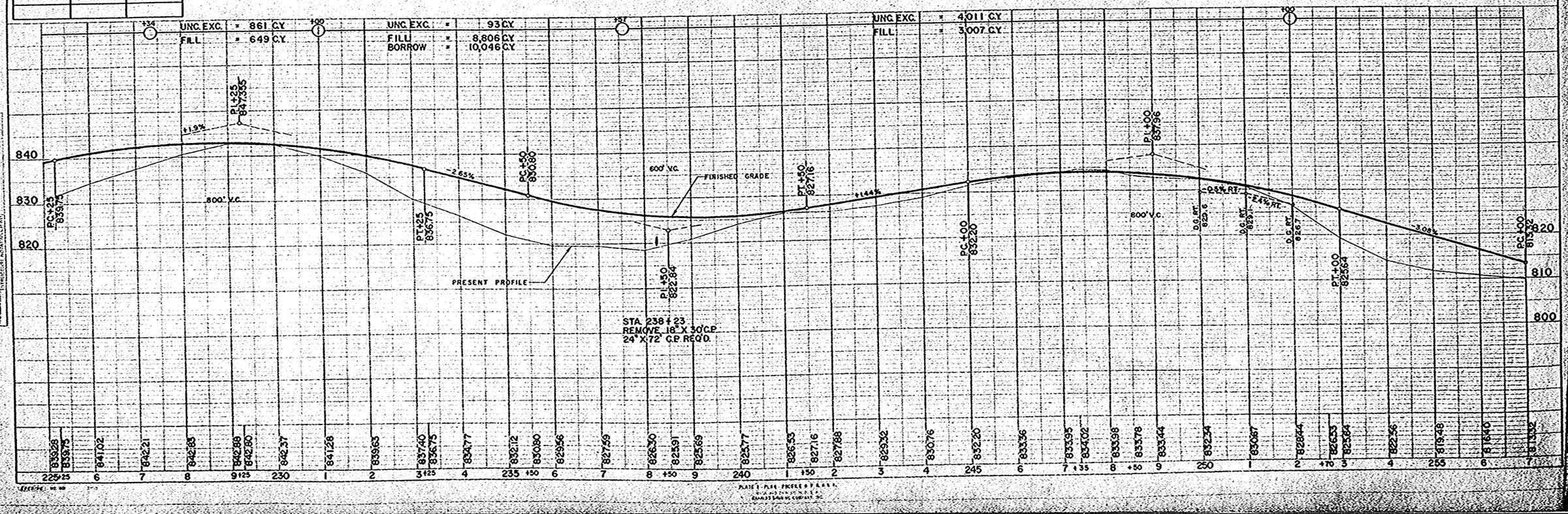


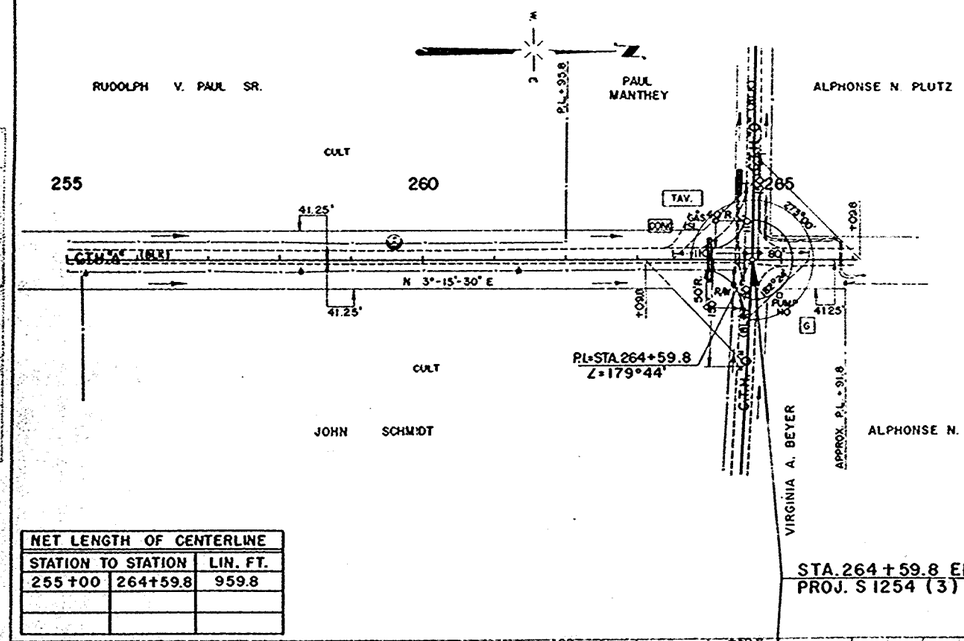
PLATE 1 - PLAN, PROFILE & P.A.G.E.S.

E.P.R. DIVISION	PROJECT	SHEET NUMBER	TOTAL SHEETS
4	S 1254 (3)	15	47

BENCH MARKS

NO.	STATION	DESCRIPTION	ELEV.
40	263+75	PT. MK. N.E. COR. CONC. GAS ISL. 65' LT.	803.16

STA 264 + 40 P.E. LT.
36" X 22" X 30' C M P A. REQ'D.

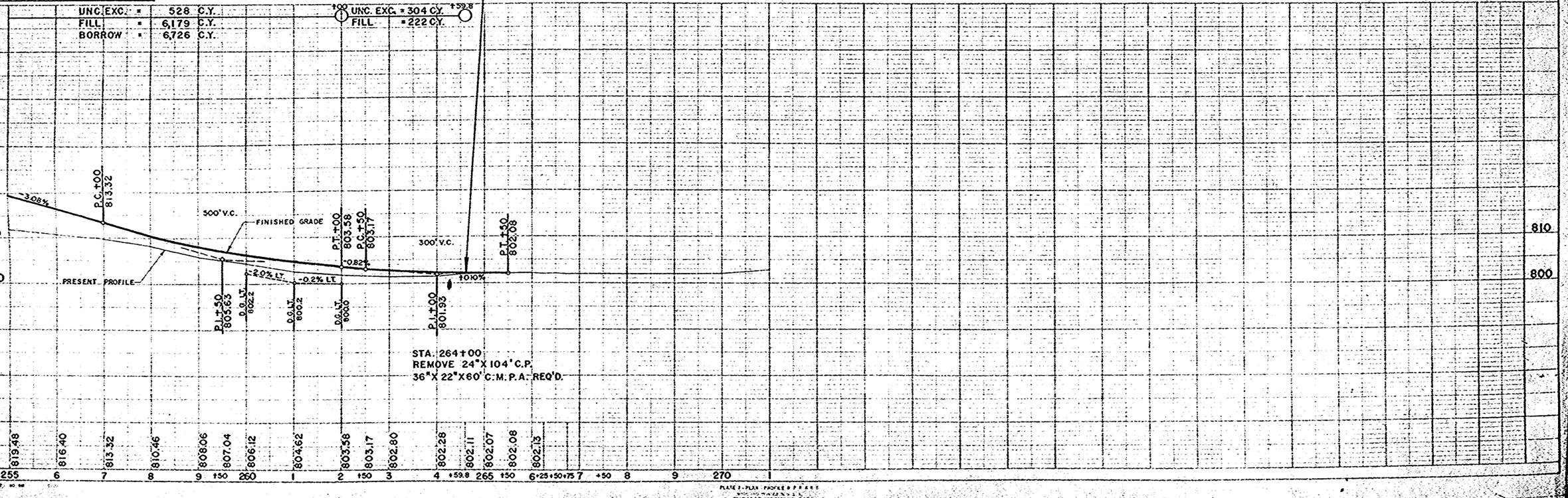


NET LENGTH OF CENTERLINE		
STATION TO STATION		LIN. FT.
255 +00	264+59.8	959.8

STA. 264 + 59.8 END OF
PROJ. S 1254 (3)

UNC. EXC. = 528 C.Y.
FILL = 6,179 C.Y.
BORROW = 6,726 C.Y.

+00 UNC. EXC. = 304 CY. +59.8
FILL = 222 CY.



PLAN
PROFILE

PLATE 1 - PLAN PROFILE & P A R A E

R.P.R. DISTRICT OFFICE	PROJECT	SHEET NUMBER	TOTAL SHEETS
WIS. 4	S 1254 (3)	22	27

SCALE 1" = 5'

STATION	DISTANCE	UNCL. EXCAVATION	UNCL. FILL
300			
+00		0	0
	23		
		0	0
	35		
		7	6
	45		
		26	50
301			
		74	63
302			
		106	56
303			
		68	106
304			
		80	87
305			
		115	37
306			
		150	15
307			
		156	9
308			
		122	17
309			
		85	57
310			
SHEET TOTAL		995	505

310 785 | 309 785 | 308 785 | 307 785 | 306 785 | 305 785 | 304 785 | 303 785 | 302 785 | 301 785 | +45 785 | +35 785 | +23 785 | 300 785

-25"-24" ASH

-12"-4" THORN APPLE

-30"-4" THORN APPLE

-24"-18" ELM

-24"-18" ELM

+23 | +35 | +37 | +04 | +55 | +38

FINAL SURVEY — SURVEYED — PLOTTED — TRACED — CHECKED — NOTE BOOK — NO.

ORIGINAL SURVEY — SURVEYED — PLOTTED — TRACED — CHECKED — NOTE BOOK — NO. 218

BY R.D.N. B.F.K. A.C.L.

DATE 7-8-59 8-5-59 8-11-59

PLATE 3 CROSS SECTION O.P.R. & R.E. STANDARD
100 RAG PAPER MADE AND PRINTED IN U.S.A.
EUGENE DIETZGEN CO.

B.P.R. DISTRICT OFFICE	PROJECT	SHEET NUMBER	TOTAL SHEETS
WIS. 4	S 1254(3)	28	47

STATION	DISTANCE	VARIANCE EXCAVATION UNCL	FILL
310			
	61		94
311			
	57		89
312			
	82		67
313			
	93		80
314			
	63		117
315			
	52		141
316			
	33		100
317			
	43		208
318			
	67		167
319			
	115		126
320			
	220		54
321			
	259		50
322			
	144		174
323			
	46		276
324			
SHEET TOTAL		1327	1643

PLATE 3 CROSS SECTION O.P.R. & P.E. STANDARD
EUGENE DIETZGEN CO.

B.P.R. DISTRICT OFFICE	PROJECT	SHEET NUMBER	TOTAL SHEETS
WIS. 4	S 1254 (3)	24	47

STATION	DISTANCE	YARDAGE EXCAVATION UNCL.	YARDAGE FILL
324			
	102		146
325			
	298		6
326			
	43		0
327			
	130		0
+35			
	39		0
+50			
	72		20
328			
	28		83
+50			
	20		126
329			
	26		118
+50			
	32		100
330			
	36		89
+50			
	35		69
331			
	46		39
+50			
	57		30
332			
SHEET TOTAL		(35)	828

ORIGINAL SURVEY
NOTE BOOK No. 216
SURVEYED
PLOTTED
TEMPLATE
AREA CHECKED

FINAL SURVEY
NOTE BOOK No.
SURVEYED
PLOTTED
TEMPLATE
AREA CHECKED

D. E. W.
E. W. C. L.
A. C. L.

7-0-38
12-1-38

PLATE 3 CROSS SECTION O. P. R. & R. E. STANDARD
1001 RAG PAPER MADE AND PRINTED IN U. S. A.
EUGENE DIETZGEN CO

B.P.R. DISTRICT OFFICE	PROJECT	SHEET NUMBER	TOTAL SHEETS
WIS. 4	S 1254(3)	25	47

STATION	DISTANCE	UNCL EXCAVATION	YARDAGE
332			
	50	54	59
333	150	52	102
	150	48	83
334	150	33	113
	150	20	174
335	150	15	148
	193	0	4
336	110	0	200
	150	6	226
337	150	24	187
	150	41	157
338	150	46	122
	150	68	74
339	150	120	30
	150	222	7
	150	276	2
SHEET TOTAL		1025	1588

PLATE 3 CROSS SECTION O. P. R. & B. E. STANDARD
100 PER PAPER INDEX AND PRINTED IN U. S. A.
EUGENE DIETZGEN CO.

O.P.R. DISTRICT OFFICE	PROJECT	SHEET NUMBER	TOTAL SHEETS
WDS. 4	S 1254 (3)	26	47

STATION	DISTANCE	YARDAGE EXCAVATION JUNC.	FILL
339			
+50		224	0
340			
		189	4
+50			
		128	9
341			
		120	11
+50			
		141	7
342			
		172	4
+50			
		189	6
343			
		198	7
+50			
		168	7
344			
		111	6
+50			
		76	11
345			
		67	18
+50			
		57	22
346			
		39	33
+50			
SHEET TOTAL		1859	145

FINAL SURVEY — SUBMITTED / APPROVED / NOTE BOOK / NO. / DATE / SCALE / AREA / CHECKED

ORIGINAL SURVEY — SUBMITTED / APPROVED / NOTE BOOK / NO. 218 / DATE 7-6-38 12-38 / SCALE / AREA / CHECKED

PLATE 3 CROSS SECTION O.P.R. & B.E. STANDARD
100% RAG PAPER MADE AND PRINTED IN U.S.A.
EUGENE DIETZGEN CO.

B.P.R. DISTRICT OFFICE	PROJECT	SHEET NUMBER	TOTAL SHEETS
WIS. 4	S 1254 (3)	27	47

STATION	DISTANCE	YARDAGE EXCAVATION UNCL.	YARDAGE EXCAVATION FILL
346			
+50			
	37		39
347			
	24		43
+50			
	11		65
348			
	7		63
+50			
	7		70
349			
	7		94
+50			
	9		104
350			
	13		98
+50			
	13		89
351			
	7		92
+50			
	9		52
352			
	37		17
+56			
	16		9
+68			
SHEET TOTAL		196	818

+68 785

+56 785

352 785

+50 785

351 785

+50 785

350 785

+50 780

349 780

+50 780

348 780

+50 780

347 780

X-87-4 ASH

X-2-13

X-132-22.70 MIN. ASH

X-135-3.5 POPLAR

X-37

X-130-3.0 CHINESE ELM

X-104-6.0 ASH

FINAL SURVEY
NOTE BOOK
NO.

SURVEYED
PLOTTED
TEMPLATE
RADII CHECKED

ORIGINAL SURVEY
NOTE BOOK
NO. 218

MONTICELLO
PLOTTED
TEMPLATE
RADII CHECKED

DATE
7-6-59
12-3-59

R. C. L.
R. W. C.
A. C.

PLATE 3 CROSS SECTION O.P.R.&B.P.R. STANDARD
1000 SHEETS RULED AND PRINTED BY W. E. A.
EUGENE DIETZGEN CO.

R.P.R. DISTRICT OFFICE	PROJECT	SHEET NUMBER	TOTAL SHEETS
WIS. 4	S 1254(3)	28	47

STATION	DISTANCE	YARDAGE EXCAVATION UNCL.	FILL
352			
+ 68		37	0
185			1
	19		0
353			
	0		0
107.6			
	16		0
132			
	17		0
144			
	18		2
162			
	28		13
354			
	44		87
355			
	54		89
356			
	144		33
357			
	182		22
358			
	100		50
359			
	67		89
360			
SHEET TOTAL:		722	385

FINAL SURVEY — SURVEYED — PLOTTED — NOTE BOOK — NO. — PAGE — DATE — MEAN DIRECTION

ORIGINAL SURVEY — SURVEYED 7-8-58 — PLOTTED 11-3-58 — NOTE BOOK — NO. 216 — PAGE — DATE — MEAN DIRECTION — R.D.M. — W.F.R. — A.C.L.

PLATE 3 CROSS SECTION O.P.R.&R.E. STANDARD
1001 SHEETS MADE AND PRINTED IN U.S.A.
EUGENE DIETZGEN CO.

B.P.R. DISTRICT OFFICE	PROJECT	SHEET NUMBER	TOTAL SHEETS
WIS. 4	S 1254 (3)	29	47

STATION	DISTANCE	YARDAGE EXCAVATION UNC.	FILL
360			
	43		167
361			
	11		265
362			
	20		263
363			
	52		170
364			
	74		111
365			
	87		89
366			
	70		54
367			
	76		43
368			
	72		52
369			
	50		66
370			
	74		50
371			
	133		20
372			
	128		22
373			
	98		91
374			
SHEET TOTAL		970	1463

374 790 · 373 790 · 372 790 · 371 790 · 370 790 · 369 790 · 368 790 · 367 790 · 366 790 · 365 790 · 364 790 · 363 790 · 362 791.3 · 361 790

30"-20" OAK · 30"-26" OAK · 24"-16" APPLE · 30"-12" POPLAR · 24"-16" JUNIPER · 30"-14" PINE · 30"-16" MAPLE · 30"-14" ASH · 30"-12" TWIN 16" CEDAR · 24"-16" ASH · 24"-16" BIRCH

+.08 · +.77 · +.36 · +.49 · +.72 · +.26

-30"-3" Twin Birch

PLATE 3 CROSS SECTION O.P.R. & R.E. STANDARD
FORMS FOR PAPER PRINT AND PRINTED IN U.S.A.
EUGENE DIETZGEN CO.

FINAL SURVEY — SURVEYED ____ PLOTTED ____ NOTE BOOK ____ NO. ____

ORIGINAL SURVEY — SURVEYED ____ PLOTTED ____ NOTE BOOK ____ NO. 216

DATE 7-0-58 / 8-1-58 / 8-2-58

N. 0-34 W. 7.5 E. N.W.

O.P.R. DISTRICT OFFICE	PROJECT	SHEET NUMBER	TOTAL SHEETS
W.S. 4	S 1254 (3)	30	47

FINAL SURVEY — SURVEYED, PLOTTED, NOTE BOOK, NO., LAYOUT CHECKED

ORIGINAL SURVEY — SURVEYED, PLOTTED, NOTE BOOK, NO. 218, LAYOUT CHECKED

R.O.W. 70-33
R.R.C. 2-33
R.W.S. 2-3
W.P.S.

EQUATION 379+54.93 = 381+56.54

STATION	DISTANCE	YARDAGE EXCAVATION UNCL	FILL
374			
	80		213
375			
	68		222
376			
	76		139
377			
	165		52
378			
	296		0
379			
379	165		0
1549			
51			
1565	148		0
52			
	415		4
53			
	374		4
54			
	344		0
55			
77			
	~~309~~		~~106~~
78			
	~~346~~		~~65~~
79			
SHEET TOTAL		~~2386~~ 2131	~~803~~ 634

PLATE 3 CROSS SECTION O.P.R. & R.E. STANDARD
100% RAG PAPER MADE AND PRINTED IN U.S.A.
EUGENE DIETZGEN CO.

B.P.R. DISTRICT OFFICE	PROJECT	SHEET NUMBER	TOTAL SHEETS
WIS. 4	S 1254 (3)	31	47

STATION	DISTANCE	YARDAGE EXCAVATION U.N.C.	FILL
89+60			
	92	375	132
	93	69	120
	94	60	115
	95	157	72
	96	239	33
	97	352	9
	98	378	2
	99	241	80
	100	115	244
	101	70	420
	102	26	548
	103	30	517
	104	80	337
	105	144	187
	106	154	146
SHEET TOTAL		2119	3120
		2490	2962

FINAL SURVEY — SURVEYED ... NOTE BOOK ... PAGES ... CHECKED ...

ORIGINAL SURVEY — SURVEYED R.D.N. 7-6-59; NOTE BOOK W.P.S. 12-58; No. 216 PAGES A.C.L. CHECKED

PLATE 3 CROSS SECTION O.P.R. & B.E. STANDARD
1951 AIR PAPER-TRACE AND PRINTED IN U. S. A.
EUGENE, OREGON CO.

O.P.R. DISTRICT OFFICE	PROJECT	SHEET NUMBER	TOTAL SHEETS
WTS. 4	S 1254(3)	32	47

STATION	DISTANCE	YARDAGE EXCAVATION UNCL	YARDAGE FILL
106			
	107		141
107			
	106		108
108			
	115		67
109			
	93		170
110			
	104		206
111			
	132		135
112			
	141		89
113			
	124		80
114			
	98		161
115			
	76		246
116			
	89		254
117			
	96		261
118			
	56		333
119			
SHEET TOTAL		1337	2,279

FINAL SURVEY
SURVEYED
PLOTTED
NOTE BOOK
NO. 216
TEMPLATE
AREAS CHECKED

ORIGINAL SURVEY
SURVEYED
PLOTTED
NOTE BOOK
NO. 216
TEMPLATE
AREAS CHECKED

DATE
R - 9 - N
R - 10 - N
V - F - 2
A - C - 2
R - 58
11 - 58

PLATE 3 CROSS SECTION O. P. R. & R. E. STANDARD
100% RAG PAPER MADE AND PRINTED IN U. S. A.
EUGENE DIETZGEN CO.

B.P.R. DISTRICT OFFICE	PROJECT	SHEET NUMBER	TOTAL SHEETS
WIS. 4	S 1254 (3)	33	47

FINAL SURVEY — SURVEYED ____ PLOTTED ____ TRAVERSE ____ NOTE BOOK ____ NO. ____ AREA CHECKED

ORIGINAL SURVEY — SURVEYED ____ PLOTTED ____ TRAVERSE ____ NOTE BOOK ____ NO. 215 AREA CHECKED

DATE 8-9-39 7-2-39 10-3-39

131+810 · 130+810 · 129+810 · 128+810 · 127+810 · 126+810 · 125+815 · 124+815 · 123+815 · 122+810 · 121+810 · 120+810

STATION	DISTANCE	YARDAGE EXCAVATION UNC.	YARDAGE EXCAVATION FILL
119			
	41		398
120			
	104		285
121			
	194		104
122			
	383		20
123			
	591		0
124			
	598		0
125			
	369		7
126			
	104		117
127			
	18		243
128			
	22		241
129			
	106		124
130			
	148		11
150			
	176		6
131			
SHEET TOTAL		2854	1576

PLATE 3. CROSS SECTION O.P.R. & R.E. STANDARD
1931 BUD PAPER-MADE AND PRINTED IN U. S. A.
EUGENE DIETZGEN CO.

O.P.R. DISTRICT OFFICE	PROJECT	SHEET NUMBER	TOTAL SHEETS
WIS. 4	S 1254(3)	34	47

STATION	DISTANCE	YARDAGE EXCAVATION UNCL.	MUCK EXC.	FILL
131				
	165			94
132				
	57			152
133				
	109			85
134				
	119			67
135				
	98			68
136				
	291			24
137				
	591			2
138				
	706			0
139				
	631			0
140				
	452			22
141				
	122			30
+40				
	87	31		174
+70				
	85	72		317
142				
SHEET TOTAL:		3513	103	1035

FINAL SURVEY — SURVEYED ____ PLOTTED ____ NOTE BOOK ____ TEMPLATE ____ No. ____ AREAS CHECKED ____

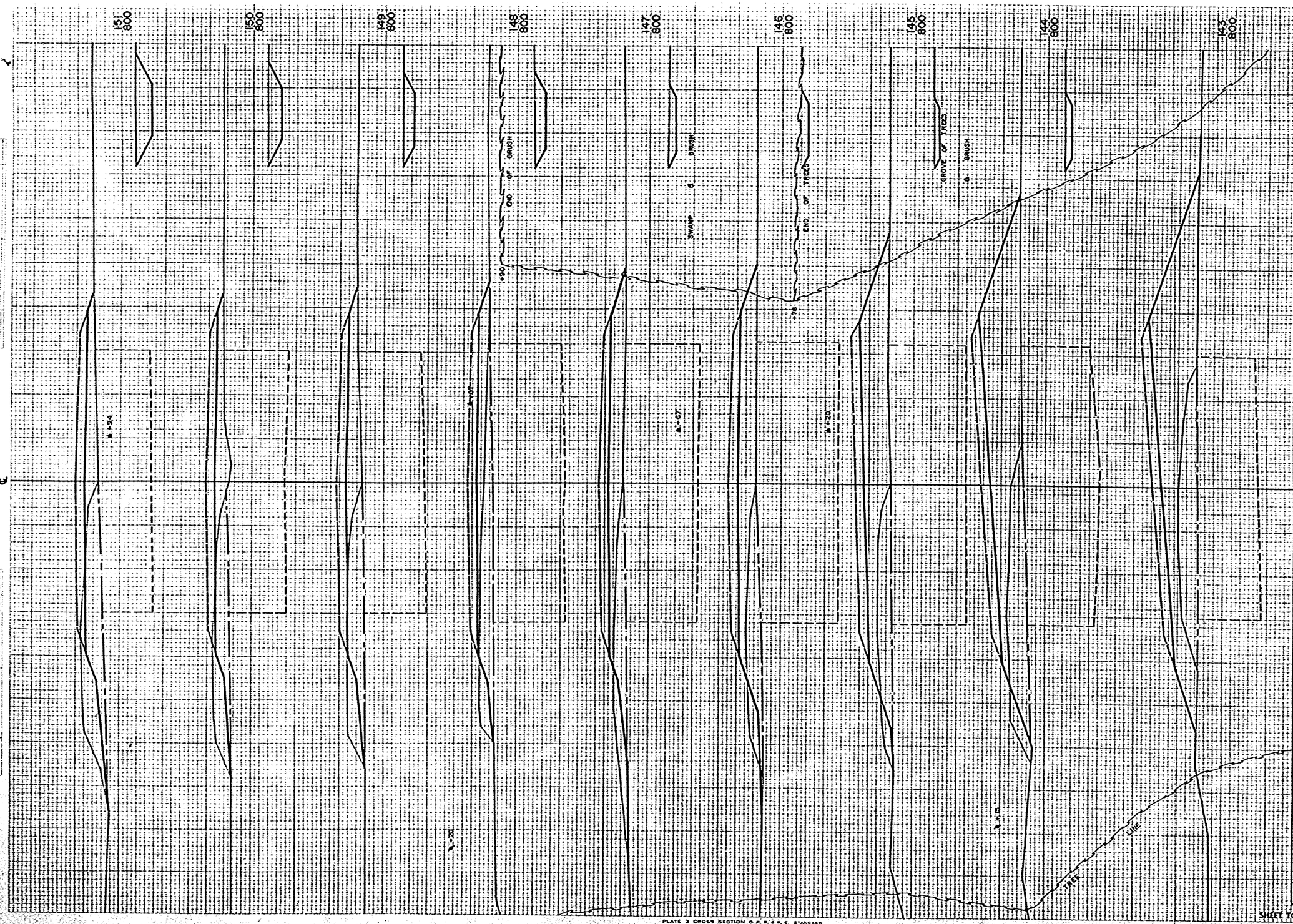
ORIGINAL SURVEY — SURVEYED ____ PLOTTED ____ NOTE BOOK 216 TEMPLATE ____ No. ____ AREAS CHECKED ____

DATE: 7-8-38 / 1-1-39

R. D. W. C. A.

PLATE 3 CROSS SECTION O. P. R. & R. E. STANDARD
1021 R&B PUBLISHING AND PRINTED IN U. S. A.
EUGENE DIETZGEN CO.

B.P.R. DISTRICT OFFICE	PROJECT	SHEET NUMBER	TOTAL SHEETS
WIS. 4	S 1254(3)	35	47



STATION	DISTANCE	YARDAGE EXCAVATION UNCL.	YARDAGE EXCAVATION MUCK EXC.		YARDAGE FILL
142					
	231	507			1,356
143					
	215	874			1,776
144					
	191	1,019			1,826
145					
	157	1,069			1,750
146					
	150	1,057			1,626
147					
	170	1,022			1,470
148					
	180	924			1,319
149					
	174	811			1,170
150					
	219	756			1,080
151					
SHEET TOTAL		1687	8039		13,373

FINAL SURVEY
SURVEYED _____
PLOTTED _____
NOTE BOOK _____
NO. _____
DUPLICATE _____
AREAS PLANIMETERED _____
AREAS CHECKED _____

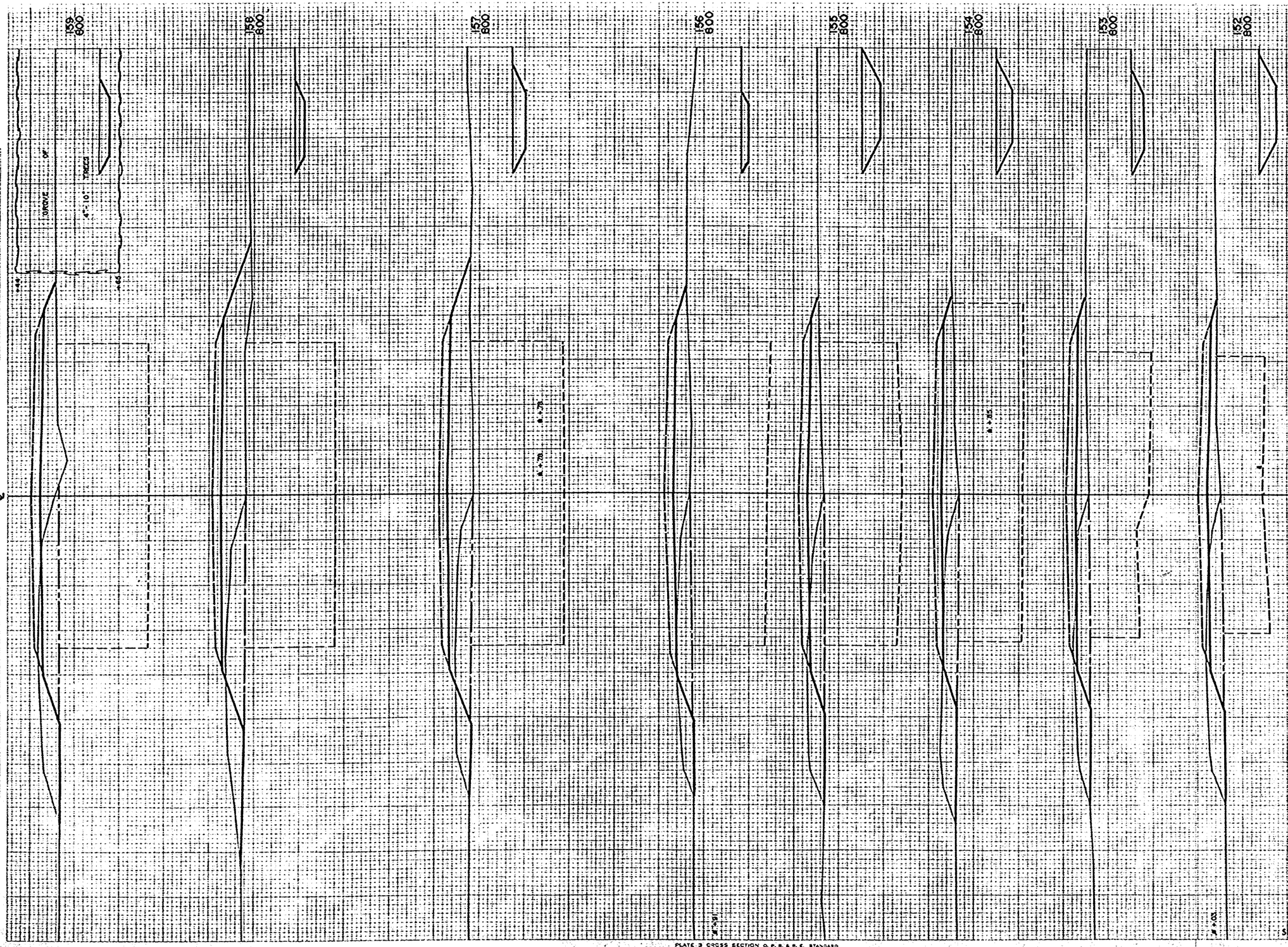
ORIGINAL SURVEY
SURVEYED _____
PLOTTED _____
NOTE BOOK _____
NO. 216
DUPLICATE _____
AREAS PLANIMETERED _____
AREAS CHECKED _____

R. P. N.
N. F. W.
R. W. V.

DATE 7-8-39
H. 1"=100'
V. 1"=10'

PLATE 3 CROSS SECTION O.P.R. & R.E. STANDARD
100% RAG PAPER MADE AND PRINTED IN U.S.A.
EUGENE DIETZGEN CO.

B.P.R. DISTRICT OFFICE	PROJECT	SHEET NUMBER	TOTAL SHEETS
WIS. 4	S 1254 (3)	36	47


159+800
158+800
157+800
156+800
155+800
154+800
153+800
152+800
DROVE OF
4'-10" TREES
+45
+45
A + 75
A + 75
A + 75
A + 325
A + 325
A + 325

O.P.R. DISTRICT OFFICE	PROJECT	SHEET NUMBER	TOTAL SHEETS
WIS. 4	S 1254 (3)	37	47

FINAL SURVEY — PLOTTED — CHECKED — NOTE BOOK — NO. — DETAIL CHECKED

ORIGINAL SURVEY — PLOTTED — CHECKED — NOTE BOOK — NO. 216 — DETAIL CHECKED

R. 4 W. — R. 3 W. — R.W.V.

T. 9-S. — T. 10-S. — 12-S. — "

169 805 — 168 805 — 167 805 — 166 805 — 165 805 — 164 805 — 163 805 — 162 805 — 161 805 — 160 800

SWAMP LOCUST — +39 — 50-12" KIN — 74-12" ASH — TRIPLE 10" CHERRY — +38 — +82 — +91 — +15 — +15 — +35 — +145

STATION	DISTANCE	YARDAGE EXCAVATION UNC.	MUCK	FILL
159				
		241	744	1443
160				
		209	406	226
161				
		180	483	265
162				
		187	491	424
163				
		187	876	1001
164				
		154	1130	1426
165				
		119	1233	1620
166				
		104	1300	1743
167				
		109	1365	1859
168				
		120	1469	2002
169				
SHEET TOTAL		1510	9497	12009

PLATE 3 CROSS SECTION O.P.R. S.B.E. STANDARD
1251 PAD PAPER MADE AND PRINTED IN U.S.A.
EUGENE DIETZGEN CO.

B.P.R. DISTRICT OFFICE	PROJECT	SHEET NUMBER	TOTAL SHEETS
WIS. 4	S 1254 (3)	38	47

178 805 | 177 805 | 176 805 | 175 805 | 174 805 | 173 805 | 172 805 | 171 805 | 170 805

WOODS | SWAMP | BRUSH | SWAMP

FINAL SURVEY — SURVEYED / PLOTTED / NOTE BOOK / SHEET CHECKED

ORIGINAL SURVEY — SURVEYED 7-8-38 / PLOTTED 7-20-38 / NOTE BOOK 216 / SHEET CHECKED 12-8-38

R. O. W. / W. P. W. / R. W. V.

STATION	DISTANCE	YARDAGE EXCAVATION ORG.	MUCK	FILL
169				
		65	1470	1998
170				
		63	1502	2098
171				
		117	1650	2367
172				
		122	1546	2274
173				
		118	1380	2091
174				
		102	1370	2085
175				
		131	1387	2115
176				
		163	1385	2106
177				
		172	1219	1872
178				
SHEET TOTAL		1053	12909	19006

PLATE 3 CROSS SECTION © P. R. & R. E. E. STANDARD
1001 843 PRINTED IN U. S. A.
EUGENE DIETZGEN CO.

B.P.R. DISTRICT OFFICE	PROJECT	SHEET NUMBER	TOTAL SHEETS
WIS. 4	S 1254(3)	39	47

STATION	DISTANCE	YARDAGE EXCAVATION UNCL.	MUCK EXC.	FILL
178				
	148	1,056		1,615
179				
	154	998		1,506
180				
	172	963		1,454
181				
	187	848		1,302
182				
	222	611		1,046
183				
	202	394		843
184				
	200	168		517
185				
	293			193
186				
	617			78
187				
	1,219			0
188				
	2,150			0
189				
SHEET TOTAL		4,664	5,038	8,554

FOLD

FOLD

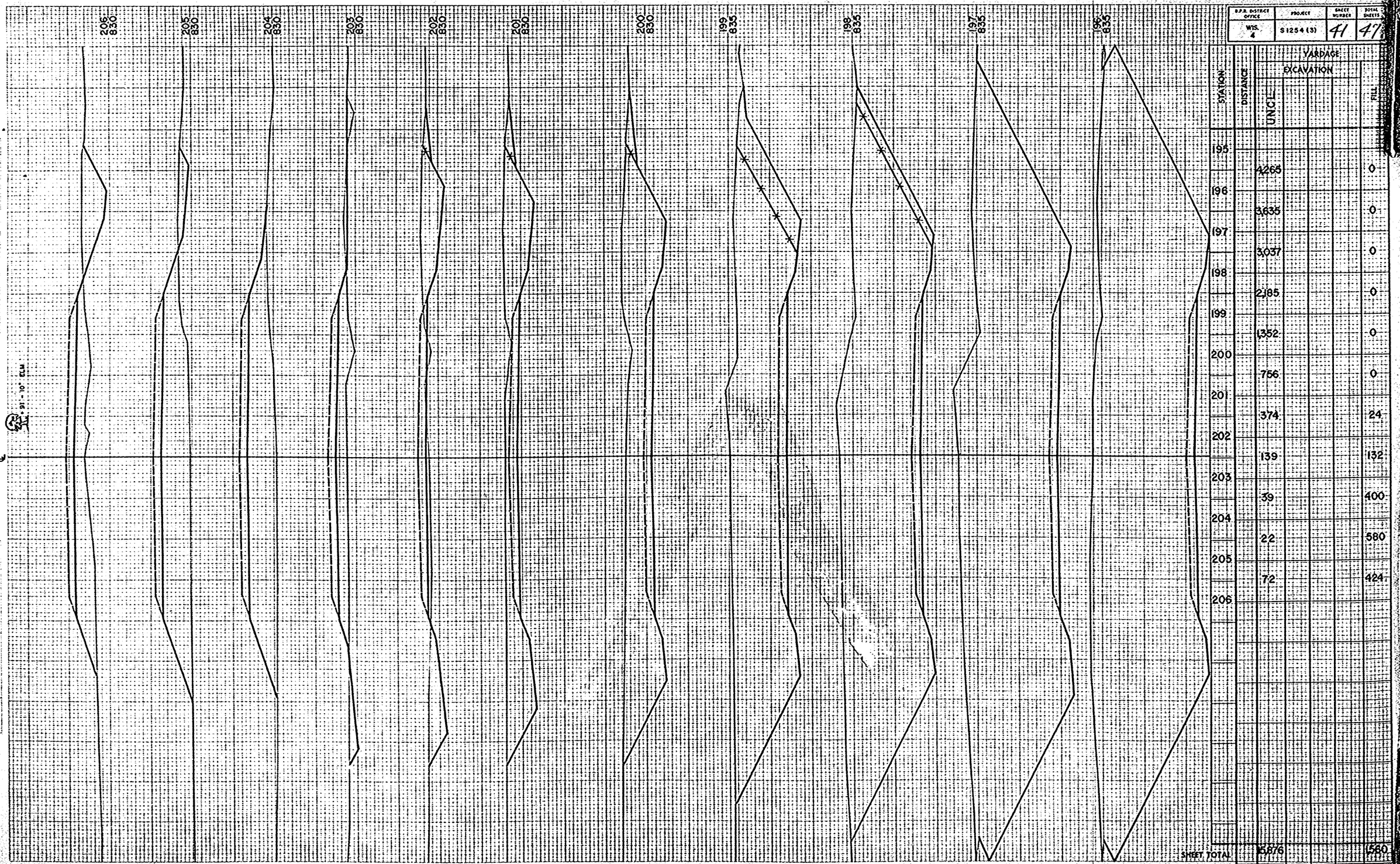
PLATE 3 CROSS SECTION

B.P.R. DISTRICT OFFICE	PROJECT	SHEET NUMBER	TOTAL SHEETS
WIS. 4	S 1254(3)	40	47

195 835 | 194 835 | 193 835 | 192 835 | 191 830 | 190 830

STATION	DISTANCE	YARDAGE EXCAVATION UNC.	YARDAGE EXCAVATION FILL
189			
		3552	0
190			
		5141	0
191			
		6067	0
192			
		6230	0
193			
		6041	0
194			
		5270	0
195			

B.P.R. DISTRICT OFFICE	PROJECT	SHEET NUMBER	TOTAL SHEETS
WIS. 4	S 1254 (3)	41	47



FINAL SURVEY — PLOTTED — TEMPLATE — NOTE BOOK — AREAS FIGURED — NO.

ORIGINAL SURVEY — PLOTTED — TEMPLATE — NOTE BOOK — AREAS CHECKED — NO. 216

PLATE 3 CROSS SECTION O.P.R.&R.E. STANDARD
100% RAG PAPER MADE AND PRINTED IN U.S.A.
EUGENE DIETZGEN CO.

B.P.R. DISTRICT OFFICE	PROJECT	SHEET NUMBER	TOTAL SHEETS
WIS. 4	S 1254 (3)	42	47

STATION	DISTANCE	YARDAGE EXCAVATION UNCL.	YARDAGE EXCAVATION FILL
206			
	120		172
207			
	426		35
208			
	556		0
160			
	454		0
209			
	804		0
210			
	307		39
211			
	115		122
212			
	67		200
213			
	231		117
214			
	439		0
215			
	585		0
216			
	502		0
217			
	198		132
218			
SHEET TOTAL:	4824		817

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

ORIGINAL SURVEY — SURVEYED 7-8-59 / PLOTTED 9-38 / NOTE BOOK 11- / CHECKED / NO. 216 / LINES CHECKED

R. 9 W. / R. 8 E. / R. W.V.

PLATE 3 CROSS SECTION O.P.R. & R.E. STANDARD
100% RAG PAPER MADE AND PRINTED IN U.S.A.
EUGENE DIETZGEN CO.

B.P.A. DISTRICT OFFICE	PROJECT	SHEET NUMBER	TOTAL SHEETS
WIS. 4	S 1254 (3)	43	47

230 845 | 229 845 | 228 840 | 227 840 | 226 835 | 225 830 | 224 830 | 223 825 | 222 825 | 221 825 | 220 825 | 219 825

L = 22

L = 75 STUMP -20'

STATION	DISTANCE	YARDAGE EXCAVATION UNC.	YARDAGE EXCAVATION FILL
218			
	46		431
219			
	28		685
220			
	24		772
221			
	17		1020
222			
	4		1396
223			
	0		1663
224			
	0		1698
225			
	0		1426
226			
	0		1044
227			
	15		567
228			
	209		152
229			
	372		30
230			
SHEET TOTAL	715		10382

FINAL SURVEY — SURVEYED — PLOTTED — CHECKED — NOTE BOOK — NO. — DATE — TEMPLATE — AREA — CHECKED

ORIGINAL SURVEY — SURVEYED — PLOTTED — CHECKED — NOTE BOOK — NO. 216 — DATE — TEMPLATE — AREA — CHECKED

R.O.W. 7.8 = 58
W.P.S. 12 = 35
R.W.V.

PLATE 3 CROSS SECTION O. P. B. S. & C. STANDARD
100% RAG PAPER MADE AND PRINTED IN U. S. A.
EUGENE DIETZGEN CO

B.P.R. DISTRICT OFFICE	PROJECT	SHEET NUMBER	TOTAL SHEETS
WTS 4	S 1254(3)	44	47

STATION	DISTANCE	YARDAGE EXCAVATION UNCL	FILL
230			
	270		91
231			
	93		398
232			
	0		1,017
233			
	0		1,494
234			
	0		1,754
235			
	0		1,807
236			
	0		1,576
237			
	0		1,333
238			
	0		1,004
239			
	37		433
240			
	148		72
241			
SHEET TOTAL	548		0,979

241 820

240 825

239 820

238 820

237 820

236 820

235 820

234 825

233 830

232 835

231 840

+35

+05

+05

+05

+07

+07 - 10" ELM

+07 - 10" ELM

+07 - 24" ELM

+71 - 14" ELM

+16 - 10" ELM

+41 22" STUMP IS

FINAL SURVEY
ADJUSTED
PLOTTED
PLANIMETER
AREAS CHECKED
NOTE BOOK
NO.

ORIGINAL SURVEY
ADJUSTED
PLOTTED
PLANIMETER
AREAS CHECKED
NOTE BOOK
NO. 216

R.P.N.
W.P.S.
R.W.V.

7-8-39
12-39

PLATE 3 CROSS SECTION O.P.R. & R.E. STANDARD
100 - SHEET PAPER WIDE AND RULED IN U. S. A.
EUGENE DIETZGEN CO.

B.P.R. DISTRICT OFFICE	PROJECT	SHEET NUMBER	TOTAL SHEETS
WTS 4	S 1254(3)	45	47

249-830 +50 248-835 +35 247-835 246-835 245-835 244-830 243-830 242-825

Δ = 22°

Δ = 33°

COR. TWIN 30" C.L. STUMP

Δ = 134°-12" STUMP

Δ = 132°

STATION	DISTANCE	YARDAGE EXCAVATION UNCL.	YARDAGE EXCAVATION FILL
241			
	174		154
242			
	122		291
243			
	131		257
244			
	311		117
245			
	554		26
246			
	672		20
247			
	256		2
135			
	344		0
248			
	109		4
150			
	74		6
249			
SHEET TOTAL		2747	877

FINAL SURVEY — SUBMITTED, PLOTTED, TEMPLATE, AREAS CHECKED, NOTE BOOK, NO.

ORIGINAL SURVEY — SUBMITTED, PLOTTED, TEMPLATE, AREAS CHECKED, NOTE BOOK 216, NO.

C.E. W.T.S. R.W.V.

H 0-50 / 7 0-30 / V 1" = 5'

PLATE 3 CROSS SECTION © P.R.B.R.A. STANDARD
1951 SUB PAPER MADE AND PRINTED IN U.S.A.
EUGENE DIETZGEN CO.

B.P.R. DISTRICT OFFICE	PROJECT	SHEET NUMBER	TOTAL SHEETS
WIS. 4	S 1254(3)	46	47

258 810 | 257 810 | 256 810 | 255 810 | 254 815 | 253 820 | +70 820 | 252 825 | 251 850 | 250 850

▲ = 30

▲ = 27

▲ = 25

SCATTERED 4" THORNAPPLES

+00

+74

+60 - 12" THORNAPPLE

+50 - 16" STUMP

STATION	DISTANCE	YARDAGE EXCAVATION UNC.	YARDAGE EXCAVATION FILL
249			
	335		0
250			
	461		0
251			
	283		48
252			
	61		241
+70			
	7		244
253			
	9		1,330
254			
	6		1,504
255			
	6		1,202
256			
	9		728
257			
	113		283
258			
SHEET TOTAL		1290	5590

FINAL SURVEY — PLOTTED — TRACED — INKED — CHECKED — NOTE BOOK — NO.

ORIGINAL SURVEY — NOTE BOOK — NO. 216 — R.O.W. 7.0-50 — R.W.S. 9-58 — R.W.V. 12-58

PLATE 3 CROSS SECTION O.P.R.&R.E. STANDARD
100 - 410 PAPER MADE AND PRINTED IN U.S.A.
EUGENE DIETZGEN CO.

U.S. DISTRICT OFFICE	PROJECT	SHEET NUMBER
WIS. 4	S 1254(3)	47 4

STATION	DISTANCE	YARDAGE EXCAVATION UNCL.	YARDAGE EXCAVATION MUCK EXC.	YARDAGE FILL
258				
	144			154
259				
	70			157
260				
	59			156
261				
	44			180
262				
	67			143
263				
	137			66
264				
	100			11
1598				
JOB TOTAL		91,199	44,032	16,680
~~TOTAL~~		~~91,199~~	~~44,032~~	~~16,680~~
~~CH. CH.~~		~~1065~~		
~~JOB TOTALS~~		~~92,264~~	~~44,032~~	~~16,680~~
SHEET TOTAL		621		669

265+800 | PUMP HOUSE | 265+800 | 264+800 | 263+800 | 262+800 | 261+800 | 260+800 | 259+805

FINAL SURVEY — SURVEYED — PLOTTED — TRACED — NOTE BOOK — PAGE — NO. — DATE — SURVEY SYSTEM — SURVEY UNITS — CHECKED

ORIGINAL SURVEY — SURVEYED — PLOTTED — TRACED — NOTE BOOK — PAGE — NO. 216 — DATE — SURVEY SYSTEM — SURVEY UNITS — CHECKED

R.O.W. 7-6-59
R.P.S. 3-59
R.W.S. 11-58
R.C.S.

PLATE 3 CROSS SECTION O.P.R.&P.E. STANDARD
100 x 100 FEET RULED AND PRINTED IN U.S.A.
EUGENE DIETZGEN CO.