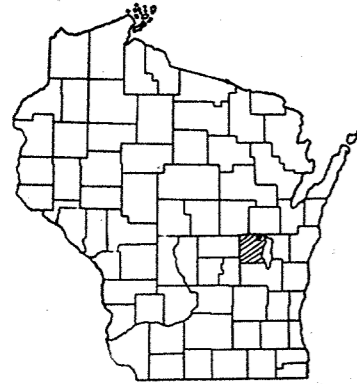


INDEX OF SHEETS

- SHEET NO. 1 TITLE
- SHEET NO. 2-26 TYPICAL CROSS SECTIONS & INTERSECTION DETAILS
- SHEET NO. 3 ESTIMATE OF QUANTITIES
- SHEET NO. 3A MISCELLANEOUS QUANTITIES
- SHEET NO. 4 RIGHT OF WAY PLAT
- SHEET NO. 5-11 PLAN AND PROFILE STA. 12+00 TO STA. 47+19.3
- SHEET NO. 12-19 STANDARD DETAILS
- SHEET NO. - DRAINAGE STRUCTURES
- SHEET NO. 20-27 CROSS SECTIONS

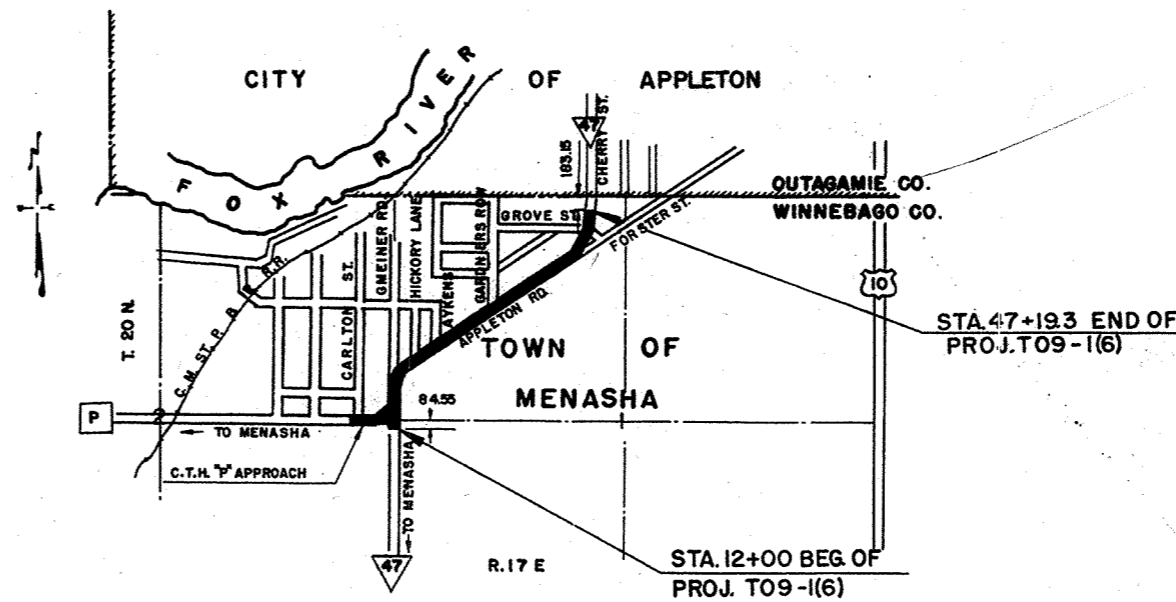


STATE OF WISCONSIN  
STATE HIGHWAY COMMISSION OF WISCONSIN

PLAN AND PROFILE OF PROPOSED  
**C. T. H. "P" - APPLETON ROAD**  
WINNEBAGO COUNTY  
PROJECT T09-1 (6)

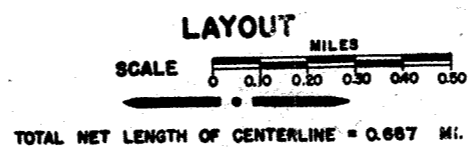
COUNTY AND HIGHWAY	ROUTE AND SECTION	CLASS AND AGREEMENT		FEDERAL DIVISION OFFICE	SHEET NUMBER	TOTAL SHEETS
		STATE	FEDERAL			
70.1	9.1	21.6		WIS. 5N	1	27

PLAN 1 IN. = 20 FT. & 1 IN. = 50 FT.  
PROFILE HOR. 1 IN. = 50 FT. VERT. 1 IN. = 2 FT.  
CROSS SECTIONS HOR. 1 IN. = 5 FT. VERT. 1 IN. = 5 FT.



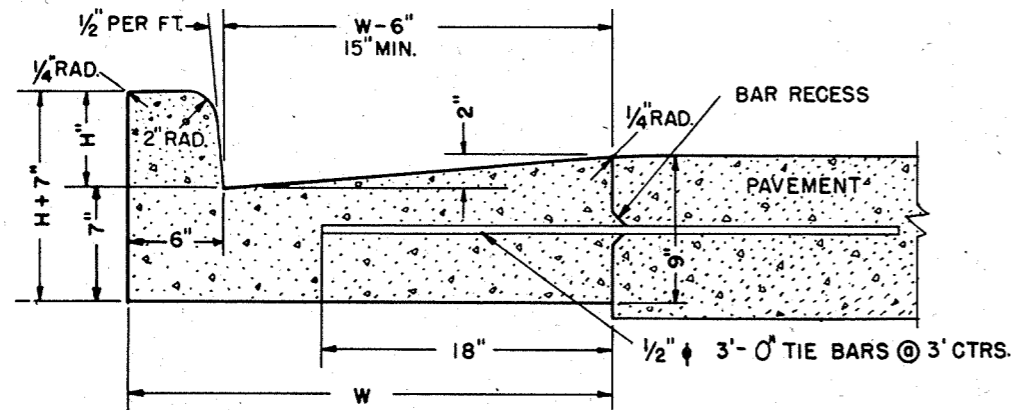
CONVENTIONAL SIGNS

<p>STATE LINE ..... - - - - -</p> <p>COUNTY LINE ..... - - - - -</p> <p>TOWNSHIP OR RANGE LINE ..... - - - - -</p> <p>SECTION LINE ..... - - - - -</p> <p>NEW RIGHT OF WAY LINE ..... - - - - -</p> <p>PRESENT RIGHT OF WAY LINE ..... - - - - -</p> <p>WIRE FENCE { WOVEN ..... - - - - -</p> <p style="margin-left: 20px;">BARBED ..... - - - - -</p> <p>LOT LINE ..... - - - - -</p> <p>CORPORATE OR CITY LIMITS ..... - - - - -</p> <p>PROPERTY LINE ..... - - - - -</p> <p>TRAVELED WAY OR P.E. .... - - - - -</p> <p>RAILROADS ..... - - - - -</p> <p>BASE OR SURVEY LINE ..... - - - - -</p>	<p>CULVERTS IN PLACE ..... - - - - -</p> <p>CULVERTS REQUIRED ..... - - - - -</p> <p>DROP INLET ..... - - - - -</p> <p>POWER POLE ..... - - - - -</p> <p>TELEPHONE OR TELEGRAPH POLE ..... - - - - -</p> <p>RIGHT OF WAY MARKERS ..... - - - - -</p> <p>REFERENCE STAKE FOR HUBS ONLY ..... - - - - -</p> <p>MARSH ..... - - - - -</p> <p>HEDGE ..... - - - - -</p> <p>TREES ..... - - - - -</p> <p>GROUND ELEVATION ..... DATUM LINE 73.9</p> <p>GRADE ELEVATION ..... DATUM LINE 73.9</p>
---	---



STATE HIGHWAY COMMISSION OF WISCONSIN MADISON, WIS.	DEPARTMENT OF COMMERCE BUREAU OF PUBLIC ROADS
SURVEYOR: N.L.G. NOTE BOOK: 9586-09 DIVISION COMPUTER: H.C.A. W.O. CHECKER DIVISION CHECKER: J.E.M. CORRECT	RECOMMENDED FOR APPROVAL:
CORRECT: DATE: 2/27/52 <i>[Signature]</i> DIVISION ENGINEER	DISTRICT ENGINEER DATE
RECOMMENDED FOR APPROVAL: DATE: 3/12/52 <i>[Signature]</i> CONSTRUCTION ENGINEER	APPROVED:
APPROVED: DATE: 3/13/52 <i>[Signature]</i> STATE HIGHWAY ENGINEER	DIVISION ENGINEER DATE

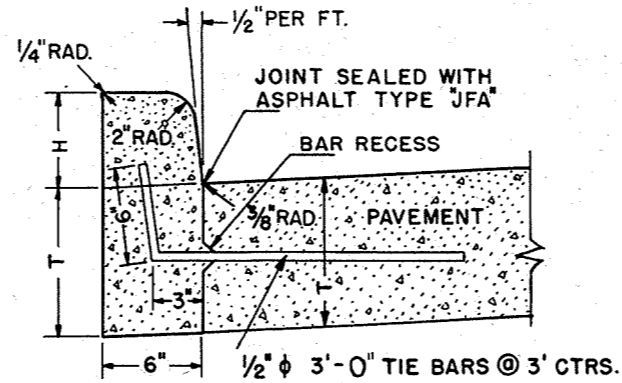
FIELD INVESTIGATED BY: C.C. EMMEL



NOTE - "H" SHALL BE 6" UNLESS OTHERWISE INDICATED ON PLAN OR PROFILES.  
MAX. VALUE OF "H" = 9" - MIN. VALUE OF "H" = 3 1/2"

**TYPE A**

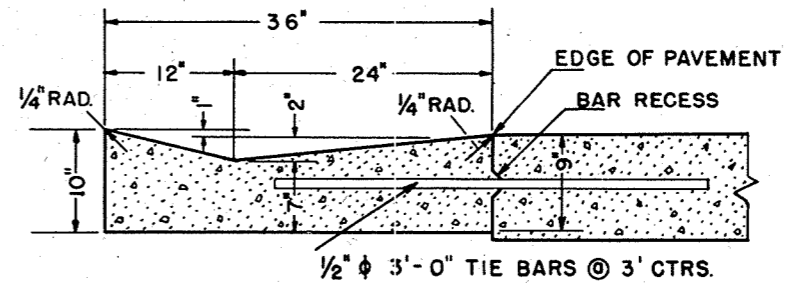
**COMBINATION CURB AND GUTTER**



NOTE - "H" SHALL BE 6" UNLESS OTHERWISE INDICATED ON PLAN OR PROFILES.  
MAX. VALUE OF "H" = 9" - MIN. VALUE OF "H" = 3 1/2"

**TYPE B**

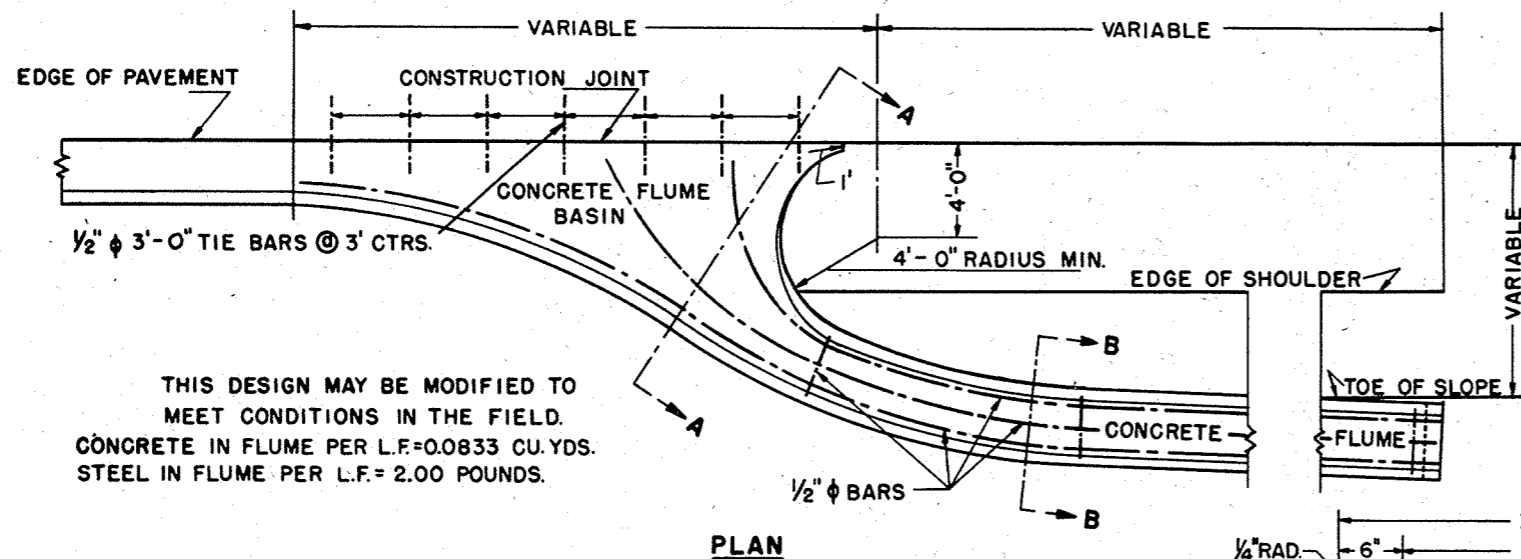
**CONCRETE CURB**



CONCRETE PER L.F. = 0.0756 CU. YDS.

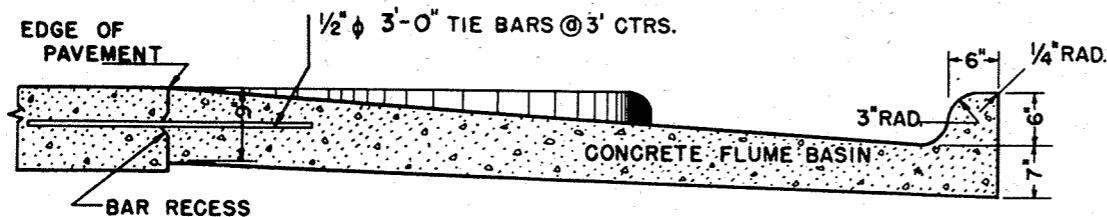
**TYPE C**

**CONCRETE GUTTER**

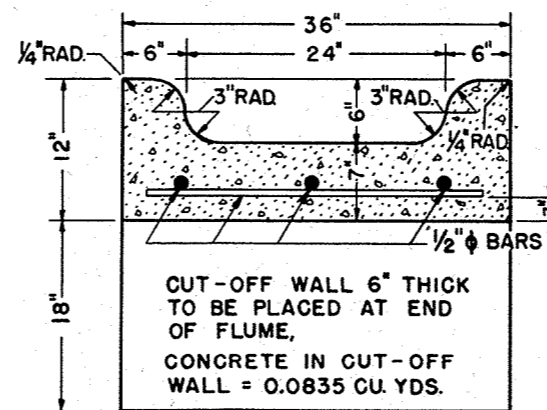


THIS DESIGN MAY BE MODIFIED TO MEET CONDITIONS IN THE FIELD.  
CONCRETE IN FLUME PER L.F. = 0.0833 CU. YDS.  
STEEL IN FLUME PER L.F. = 2.00 POUNDS.

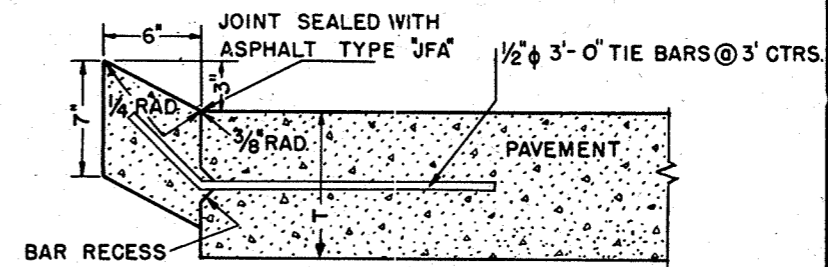
**PLAN**



**SECTION A-A**



**SECTION B-B**



**TYPE D**

**CONCRETE CURB (RURAL)**

**GENERAL CONSTRUCTION NOTES**

DETAILS OF CONSTRUCTION NOT SHOWN SHALL BE IN ACCORDANCE WITH THE PERTINENT REQUIREMENTS OF THE STANDARD AND THE PERTINENT SPECIFICATIONS.  
CURB AND GUTTER TO HAVE SEPARATOR PLATE JOINTS NOT LESS THAN 6' NOR MORE THAN 10' APART, WITH A JOINT IN LINE WITH EACH ADJACENT PAVEMENT CONTRACTION JOINT IN ADDITION TO EXPANSION JOINTS AS REQUIRED BY THE STANDARD SPECIFICATIONS.

**STANDARD DESIGN  
CONCRETE CURB, GUTTER, COMBINATION  
CURB & GUTTER, SURFACE DRAIN**

STATE HIGHWAY COMMISSION OF WISCONSIN

RECOMMENDED FOR APPROVAL:

*[Signature]*  
CONSTRUCTION ENGINEER

APPROVED:

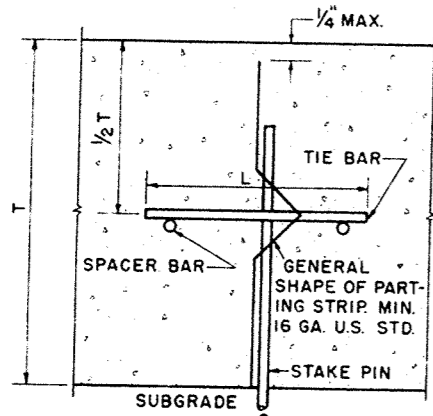
DATE:

DRAWN BY: D.V.D.

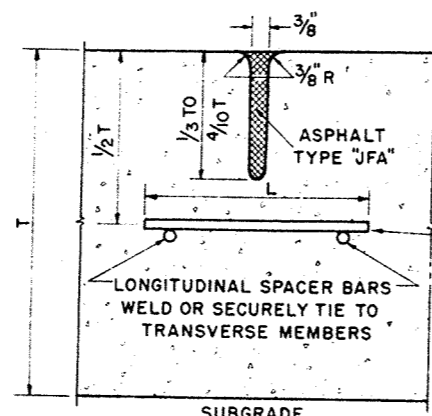
CHECKED BY:

*[Signature]*  
STATE HIGHWAY ENGINEER

**INLET OR DISCHARGE FOR STANDARD CURB AND GUTTER SURFACE DRAIN.**

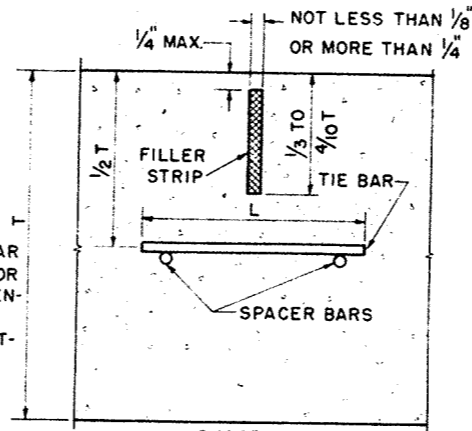


**PARTING STRIP JOINT  
LONGITUDINAL**

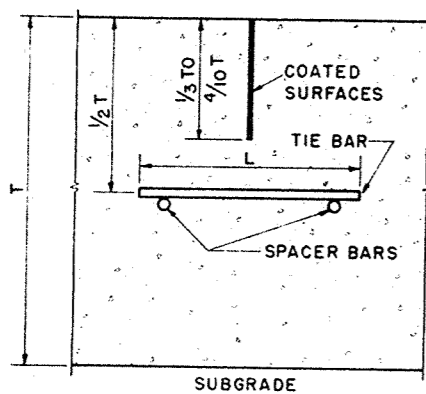


**POURED JOINT  
LONGITUDINAL**

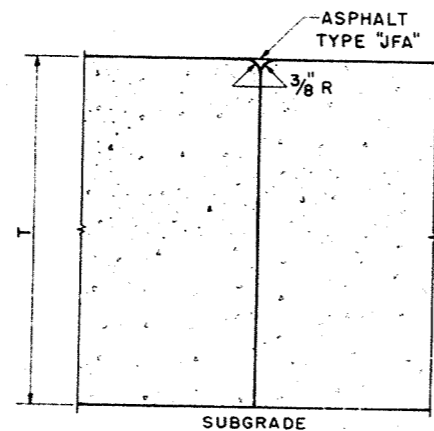
TRANSVERSE TIE BAR  
EITHER BAR STEEL OR  
WIRE MESH. SIZE, LEN-  
GTH AND SPACING AS  
SHOWN IN CONSTRUCT-  
ION NOTES.



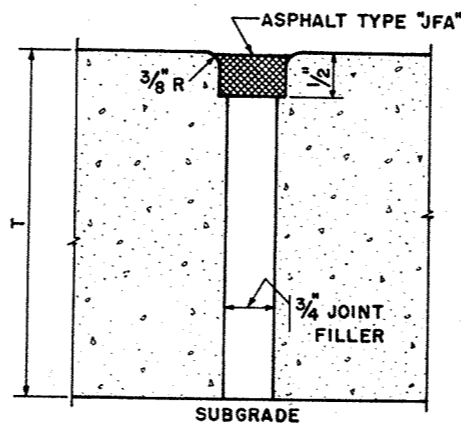
**FILLER STRIP JOINT  
LONGITUDINAL**



**CLEFT JOINT  
LONGITUDINAL**



**CONSTRUCTION JOINT  
TRANSVERSE & LONGITUDINAL**



**EXPANSION JOINT  
TRANSVERSE & LONGITUDINAL**

**GENERAL NOTES**

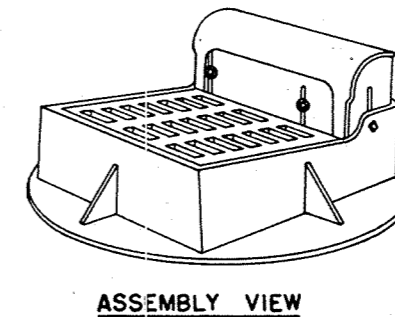
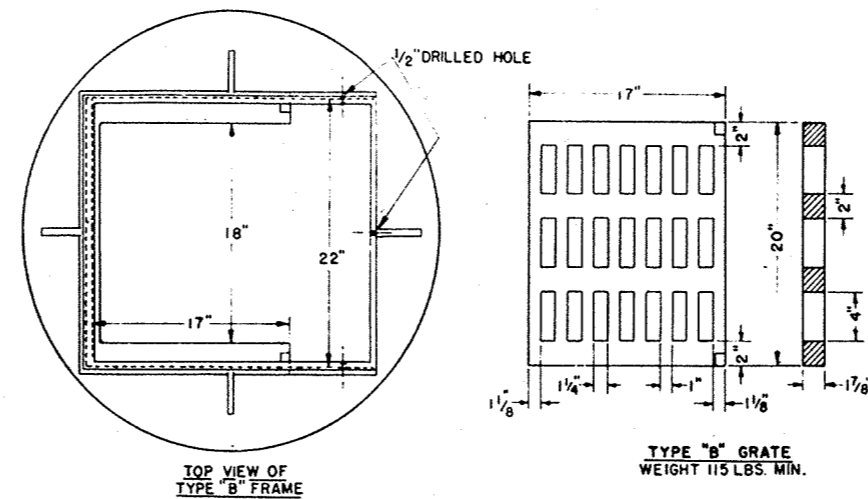
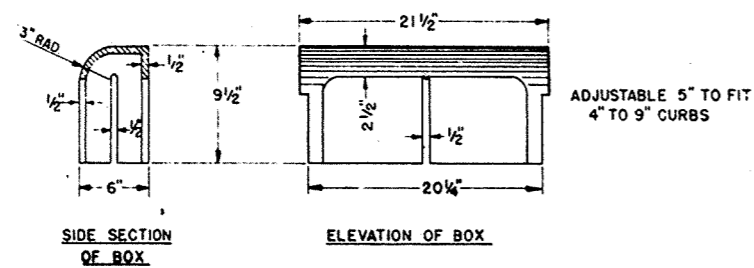
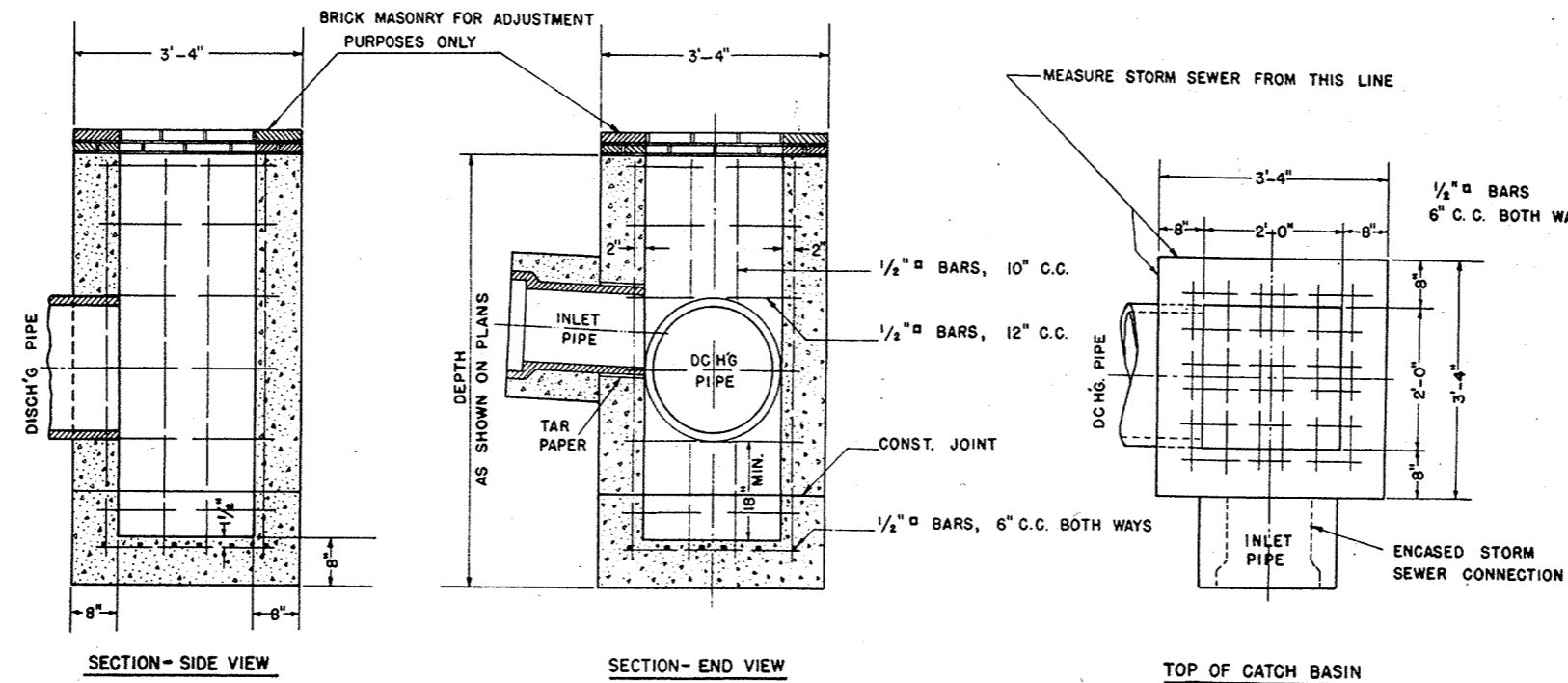
DETAILS OF CONSTRUCTION NOT SHOWN SHALL CONFORM TO THE PERTINENT REQUIREMENTS OF THE STANDARD SPECIFICATIONS AND THE APPLICABLE SPECIAL PROVISIONS.

**CONSTRUCTION NOTES**

TIE BARS, EXTENDING EQUIDISTANT EACH SIDE OF THE JOINT CONFORMING TO ONE OF THE FOLLOWING ALTERNATES, SHALL BE PLACED ACROSS ALL LONGITUDINAL JOINTS EXCEPT CONSTRUCTION AND EXPANSION JOINTS. BAR STEEL SHALL BE EITHER 1/4" ROUND, 24" LONG, SPACED 9" CENTERS; 3/8" ROUND, 27" LONG, SPACED 20" CENTERS; OR 1/2" ROUND, 30" LONG, SPACED 36" CENTERS. WIRE MESH TRANSVERSE MEMBERS SHALL BE 24" LONG SPACED 10" CENTERS FOR NO. 2 GAUGE; 8" CENTERS FOR NO. 3 OR 4 GAUGE; OR 6" CENTERS FOR NO. 5 OR 6 GAUGE. TIE MEMBERS NEAREST TRANSVERSE JOINT SHALL BE NOT MORE THAN 12" FROM JOINT. TRANSVERSE MEMBERS SHALL BE SECURELY WELDED OR WIRED TO NOT LESS THAN TWO LONGITUDINAL SPACER BARS OF SUCH SIZE AND SPACING AS TO PRESERVE INTEGRITY OF STRIP OR MAT DURING HANDLING AND PLACING. IN CASE OF BAR STEEL TIE BARS, LONGITUDINAL SPACER BARS SHALL BE NOT LESS THAN 1/4" ROUND. ENDS OF CONTIGUOUS ROD MATS OR MESH STRIPS NEED NOT BE LAPPED, AND IN NO CASE SHALL LAPS INCREASE TRANSVERSE STEEL ACROSS THE JOINT. A LONGITUDINAL PARTING STRIP OF DEFORMED METAL PLATE OR FIBER BOARD, APPROXIMATELY FULL DEPTH OF THE PAVEMENT, MAY BE USED UPON APPROVAL OF ITS USE AND THE DETAILS THEREOF BY THE ENGINEER.

EXPANSION JOINTS REQUIRED ONLY AT BRIDGE APPROACHES AND WHERE SPECIFICALLY REQUIRED BY PLANS. USE ONLY PREFORMED RESILIENT JOINTS, SELF EXPANDING CORK, FIBER OR CORK TYPE.

<b>JOINT DETAILS CONCRETE PAVEMENT</b>	
STATE HIGHWAY COMMISSION OF WISCONSIN	
RECOMMENDED FOR APPROVAL	
DATE 1/25/52	<i>[Signature]</i> CONSTRUCTION ENGINEER
APPROVED:	
DATE 1/25/52	<i>[Signature]</i> STATE HIGHWAY ENGINEER
DRAWN L.J.D.	
CHECKED	



### CONSTRUCTION NOTES

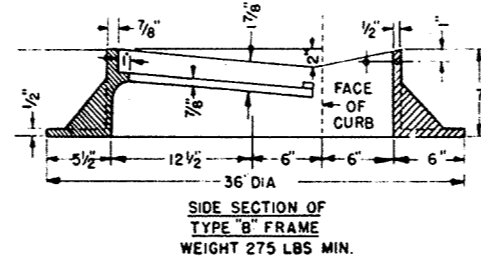
DETAILS OF CONSTRUCTION NOT SHOWN SHALL CONFORM TO THE PERTINENT REQUIREMENTS OF THE STANDARD SPECIFICATIONS AND THE APPLICABLE SPECIAL PROVISIONS.

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

TYPE F CATCH BASIN SHALL INCLUDE FRAME, GRATES, CONCRETE BASIN, PIPE AND BRICK MASONRY.

ARRANGEMENT AND NUMBER OF INLETS AND DISCHARGE PIPES SHALL CONFORM TO THE NEEDS OF THE PERTINENT LOCATION.

ADJUST CURB BOX FOR HEIGHT AFTER CURB FORM IS IN PLACE.



### CATCH BASIN TYPE "F"

STATE HIGHWAY COMMISSION OF WISC.

RECOMMENDED FOR APPROVAL:

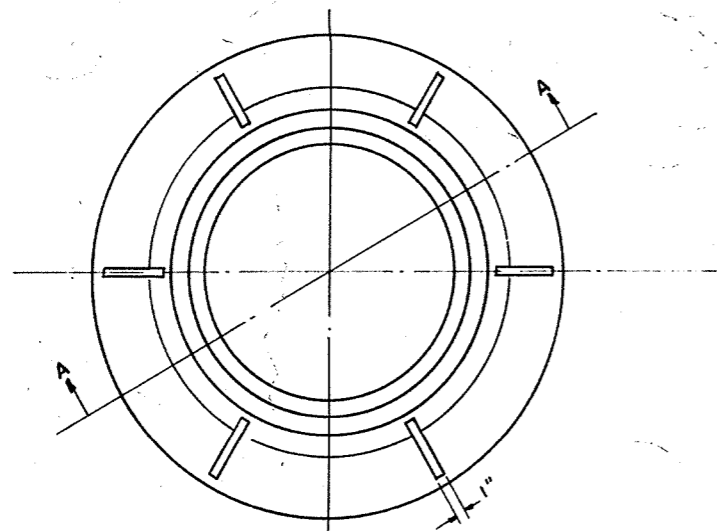
*Frank Craven*  
DESIGN ENGINEER

*W. Bluh*  
CONSTRUCTION ENGINEER

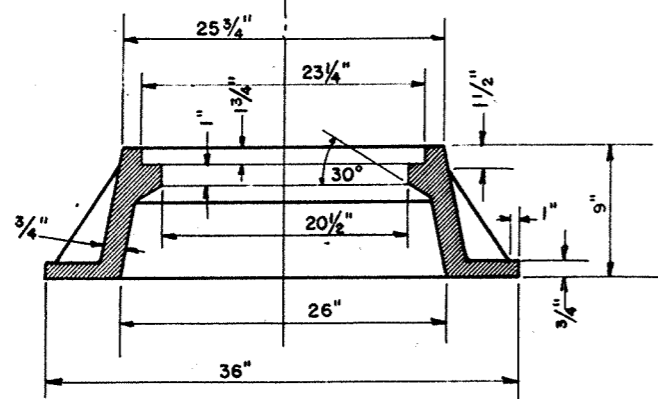
APPROVED - OCT. 1, 1945

DRAWN  
CHECKED P.F.C.

*W. Bluh*  
STATE HIGHWAY ENGINEER



FRAME



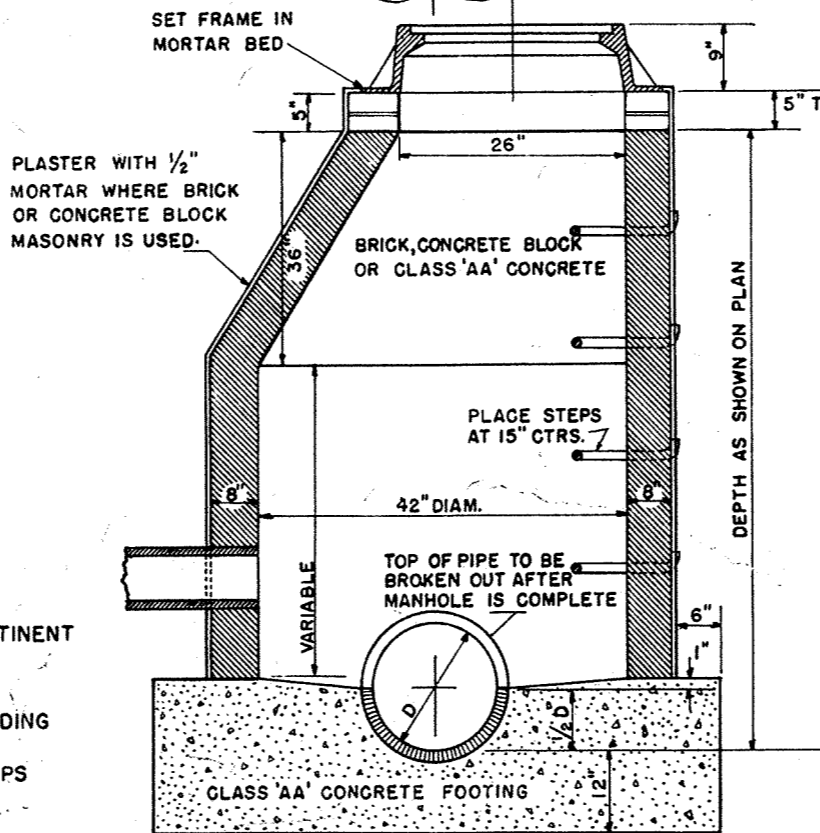
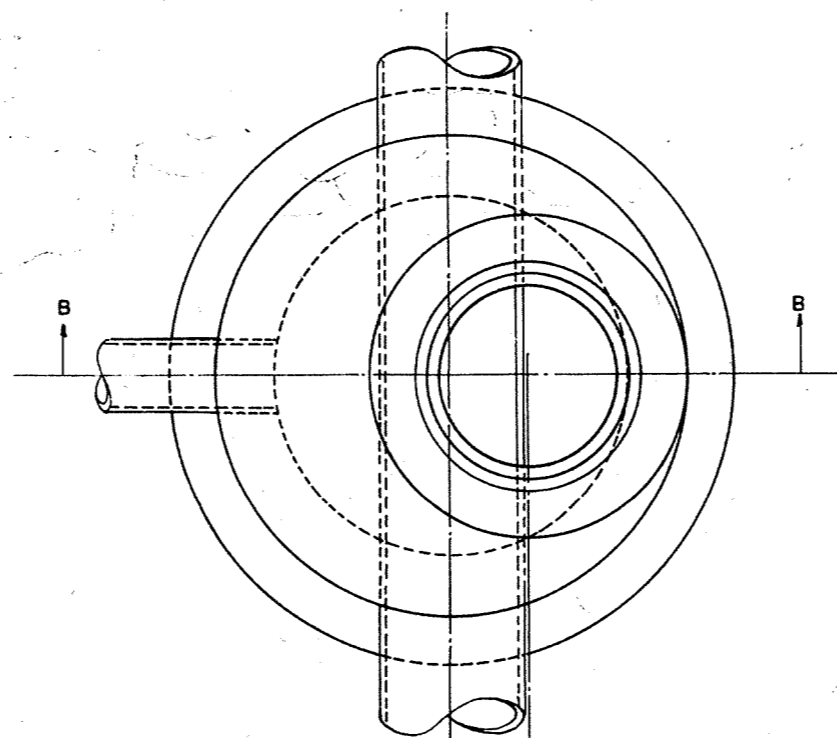
SEC. AA

**CONSTRUCTION NOTES**

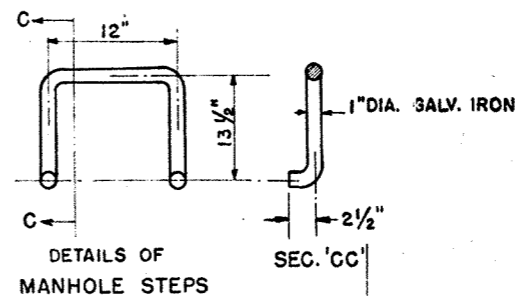
DETAILS OF CONSTRUCTION NOT SHOWN SHALL CONFORM TO THE PERTINENT REQUIREMENTS OF THE STANDARD SPECIFICATIONS AND THE APPLICABLE SPECIAL PROVISIONS.

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

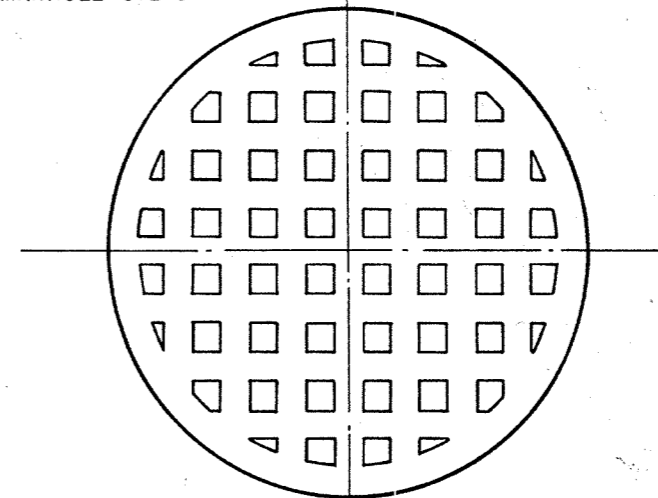
MANHOLE SHALL INCLUDE FRAME, LID, CONCRETE BASIN, PIPE AND STEPS ARRANGEMENT AND NUMBER OF INLET AND DISCHARGE PIPES SHALL CONFORM TO THE NEEDS OF THE PERTINENT LOCATION.



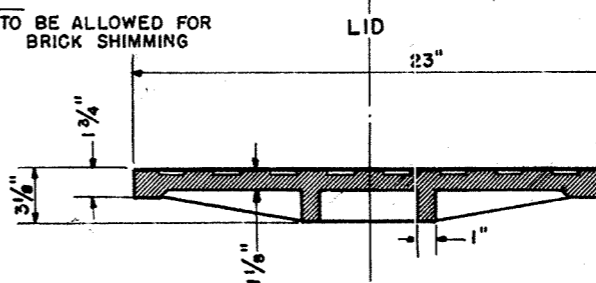
SEC. 'BB' OF MANHOLE



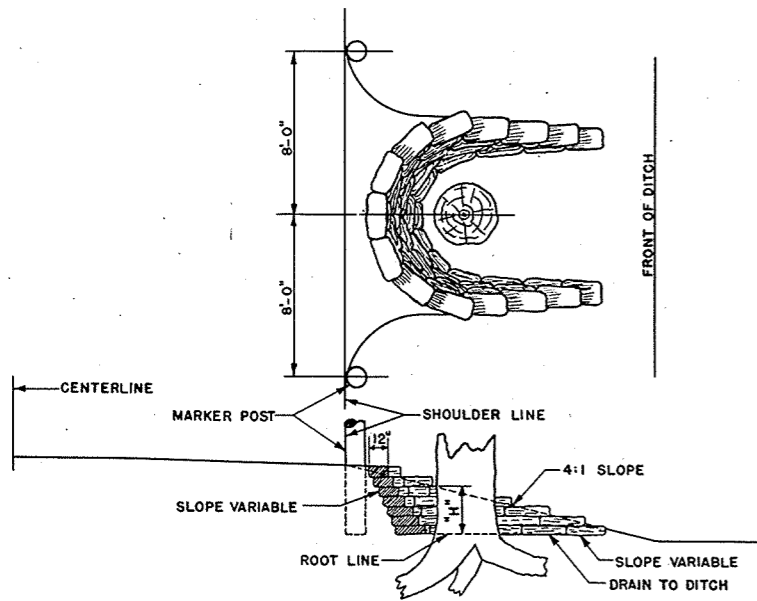
DETAILS OF MANHOLE STEPS



LID

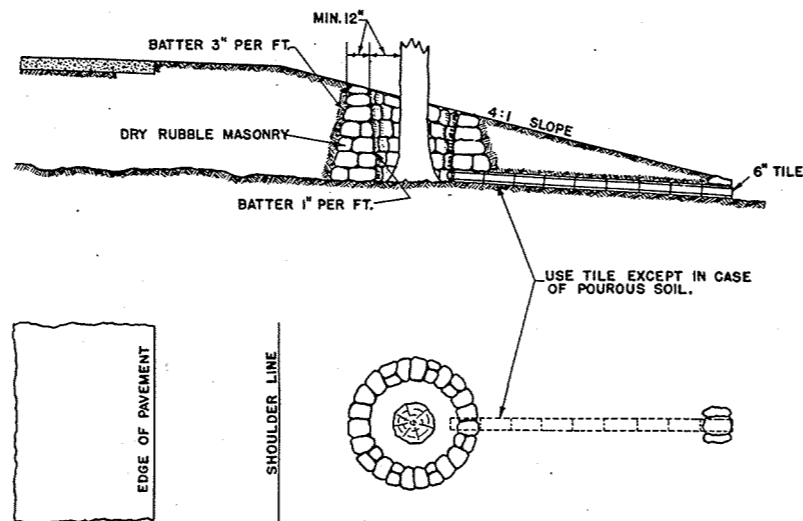


<b>MANHOLE</b>	
STATE HIGHWAY COMMISSION OF WISCONSIN	
RECOMMENDED FOR APPROVAL	
<i>Frank Chase</i> DESIGN ENGINEER	
<i>Ed Blum</i> CONSTRUCTION ENGINEER	
APPROVAL 2/20/46	
DRAWN DIV. 2	<i>E. G. Rost</i> STATE HIGHWAY ENGINEER
CHECKED M.F.C.	



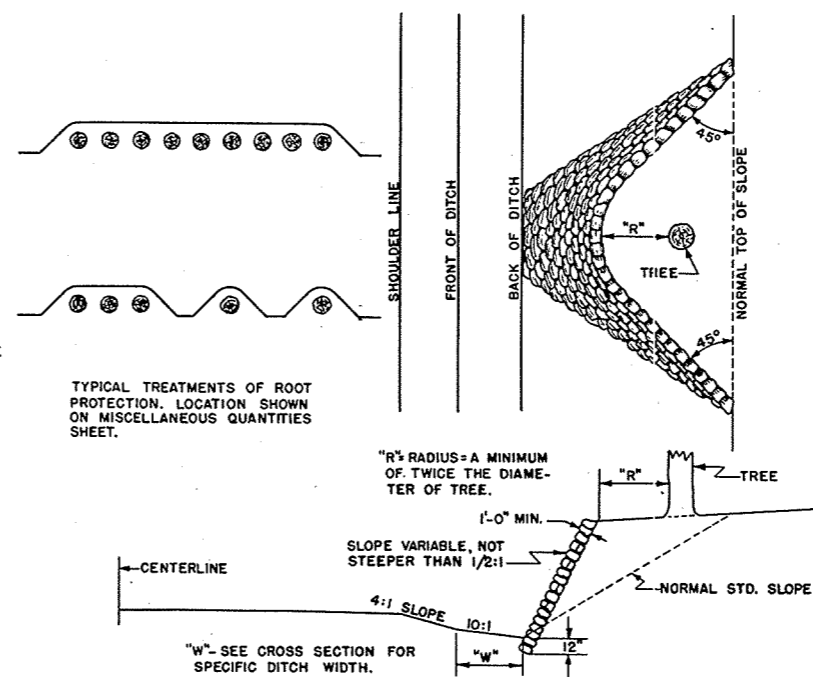
USE THIS SECTION WHEN "H" IS UNDER 3 FEET

NOT REQUIRED FOR 10" TO 15" OF GRAVEL OR SAND FILL



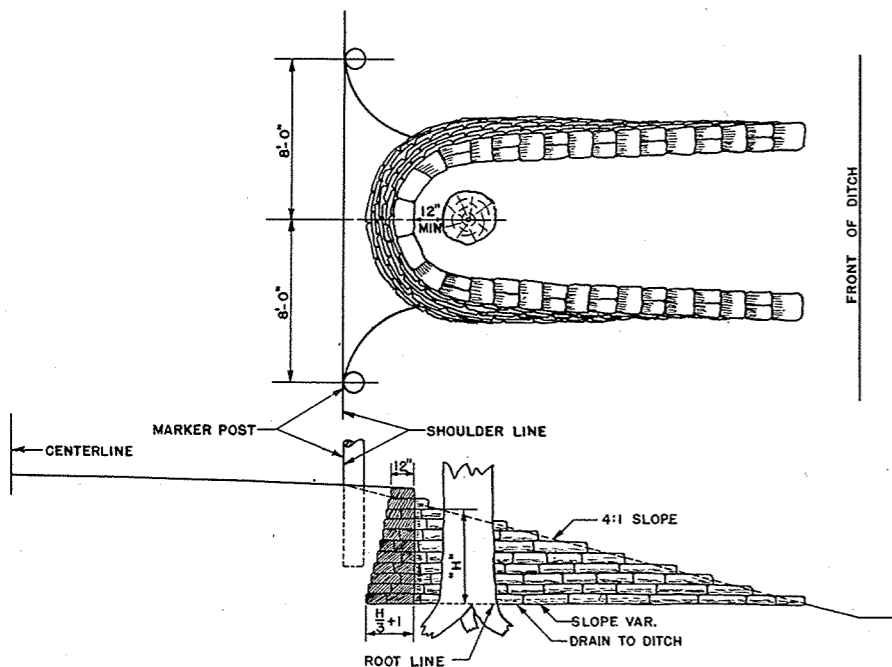
**FULL TREE WELL**

SECTIONS SHOWING METHODS TO BE USED FOR PROTECTING AND / OR PRESERVING TREES.



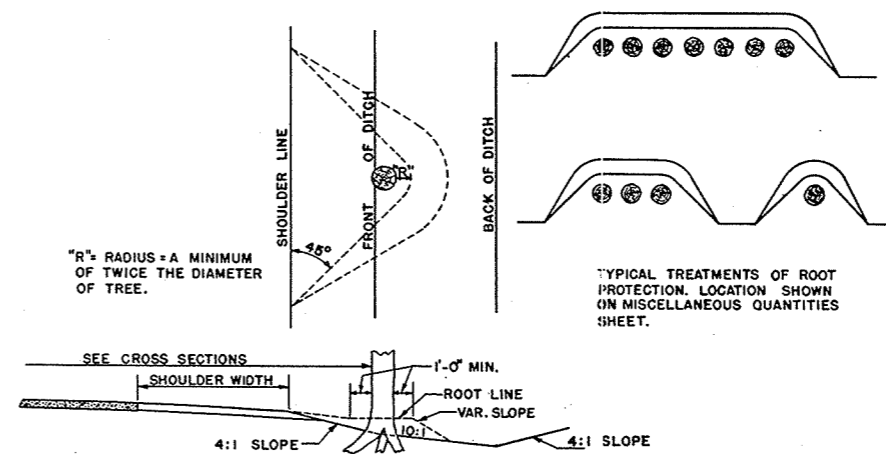
**DETAILS FOR ROOT PROTECTION**

SECTIONS SHOWING METHODS TO BE USED FOR PROTECTING AND / OR PRESERVING TREES.



USE THIS SECTION WHEN "H" = 3' OR MORE

**TREE WELLS IN FILL SECTION**



**DETAILS OF TREE ISLAND**

**GENERAL NOTES**

WALLS TO BE BUILT TO APPROXIMATE SHAPE AND DIMENSIONS SHOWN. STONE TO CONFORM TO SPECIFICATIONS FOR DRY RUBBLE MASONRY AND TO BE BID AS SUCH. THESE DESIGNS ARE NOT INTENDED AS A CRITERION OF THE DISTANCE FROM THE CENTERLINE OR SHOULDER LINE TO WHICH TREES SHALL OR SHALL NOT BE REMOVED, BUT MERELY AS A DETAIL OF THE CONSTRUCTION TO BE USED WHEN IT IS OTHERWISE FOUND NECESSARY OR DESIRABLE TO LEAVE TREES IN THE LOCATIONS INDICATED IN THE DETAILS PORTRAYED.

**TREE PRESERVATION DETAILS**

STATE HIGHWAY COMMISSION OF WISCONSIN

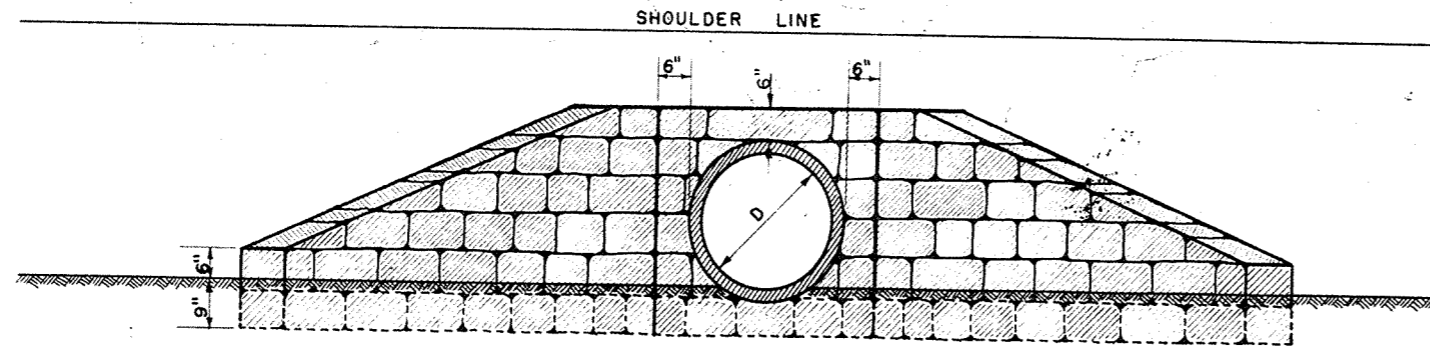
RECOMMENDED FOR APPROVAL:

Frank C. ... DESIGN ENGINEER  
 ... CONSTRUCTION ENGINEER

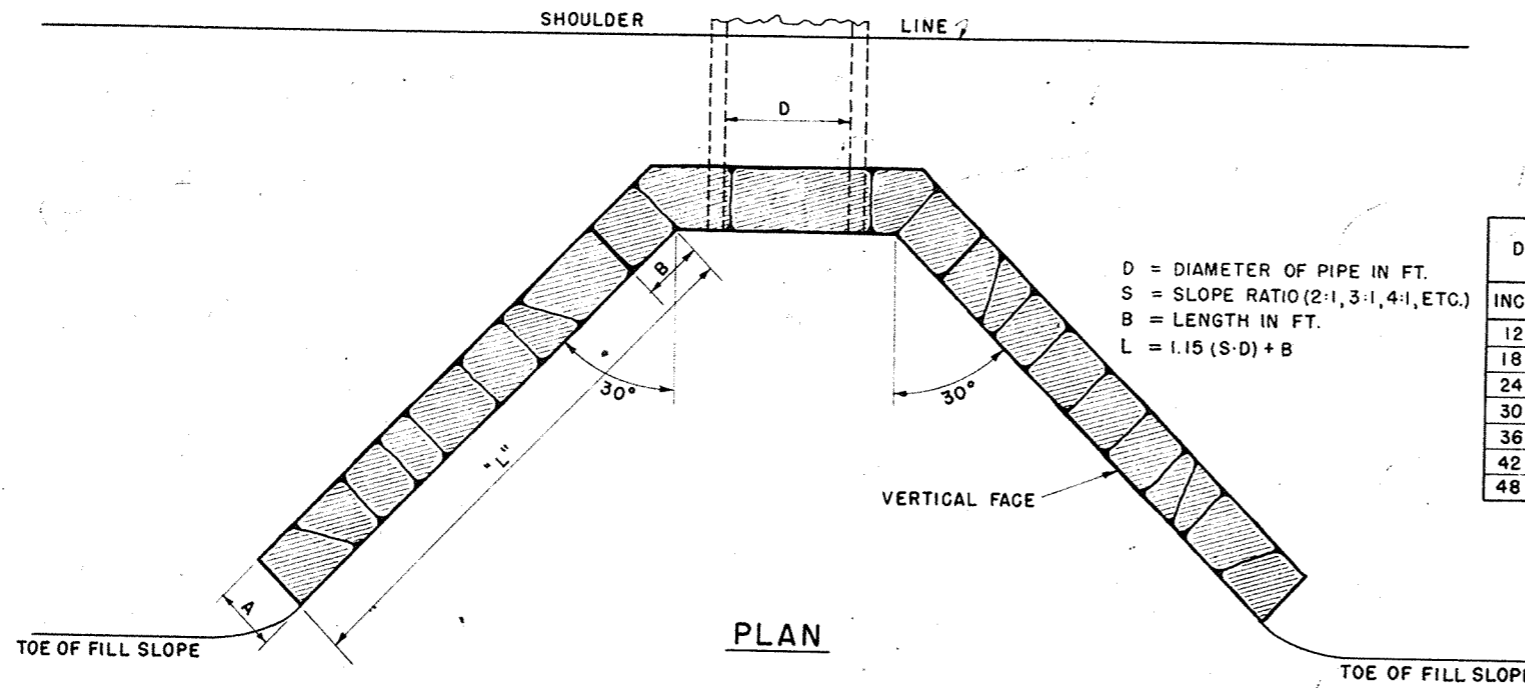
APPROVED:

OCT. 1, 1945  
 DATE  
 ... STATE HIGHWAY ENGINEER

DRAWN-R.D.S.  
 CHECKED-N.F.C.

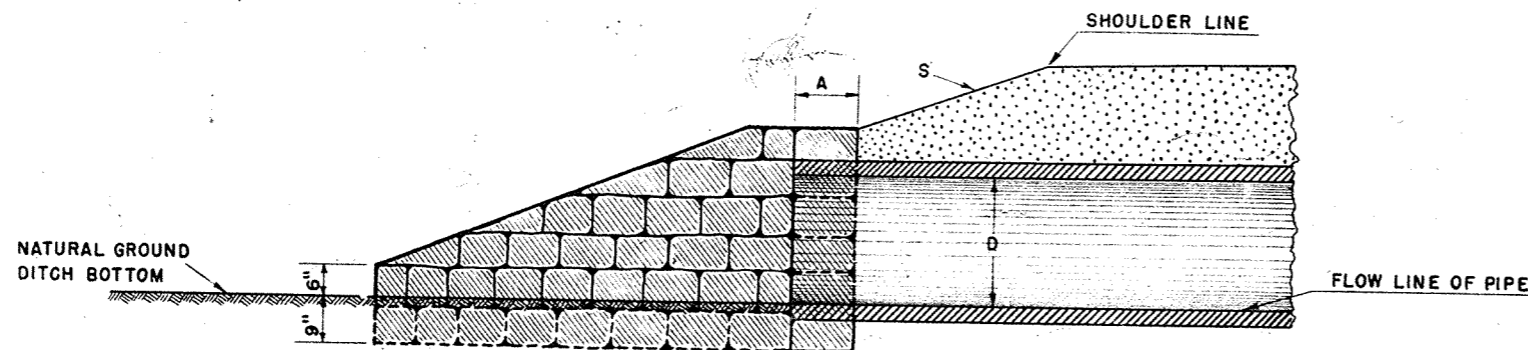


END ELEVATION



PLAN

D = DIAMETER OF PIPE IN FT.  
 S = SLOPE RATIO (2:1, 3:1, 4:1, ETC.)  
 B = LENGTH IN FT.  
 $L = 1.15(S \cdot D) + B$



SIDE ELEVATION

**GENERAL NOTES**

DETAILS OF CONSTRUCTION NOT SHOWN SHALL BE IN ACCORDANCE WITH THE REQUIREMENTS OF THE STANDARD SPECIFICATIONS.

AT PRIVATE ENTRANCES LAY PIPE ALONG THE CENTERLINE OF HIGHWAY DITCH.  
 CONSTRUCT 16 FT. MIN. WIDTH GRADE - 2:1 SLOPES AT PRIVATE ENTRANCES.

D	A	B	L	QUANT. FOR 2 ENDW'LS	L	QUANT. FOR 2 ENDW'LS	L	QUANT. FOR 2 ENDW'LS
INCH.	INCH.	INCH.	2:1 SLOPE	C.Y.	3:1 SLOPE	C.Y.	4:1 SLOPE	C.Y.
12	12	7	2'-11"	1.3	4'-0"	1.6	5'-2"	1.9
18	12	7	4'-0"	1.9	5'-9"	2.4	7'-6"	2.9
24	12	7	5'-2"	2.6	7'-6"	3.4	9'-10"	4.1
30	12	7	6'-4"	3.4	9'-3"	4.5	12'-1"	5.5
36	15	9	7'-8"	5.4	11'-1"	7.1	14'-7"	8.9
42	15	9	8'-10"	6.6	12'-10"	8.8	16'-10"	11.0
48	18	10	10'-0"	9.5	14'-8"	12.8	19'-3"	16.2

TYPE "A"

**CULVERT END WALLS  
 MORTAR RUBBLE MASONRY**

STATE HIGHWAY COMMISSION OF WISCONSIN

RECOMMENDED FOR APPROVAL

*Frank Crane*  
 DESIGN ENGINEER

*Carl Duke*  
 CONSTRUCTION ENGINEER

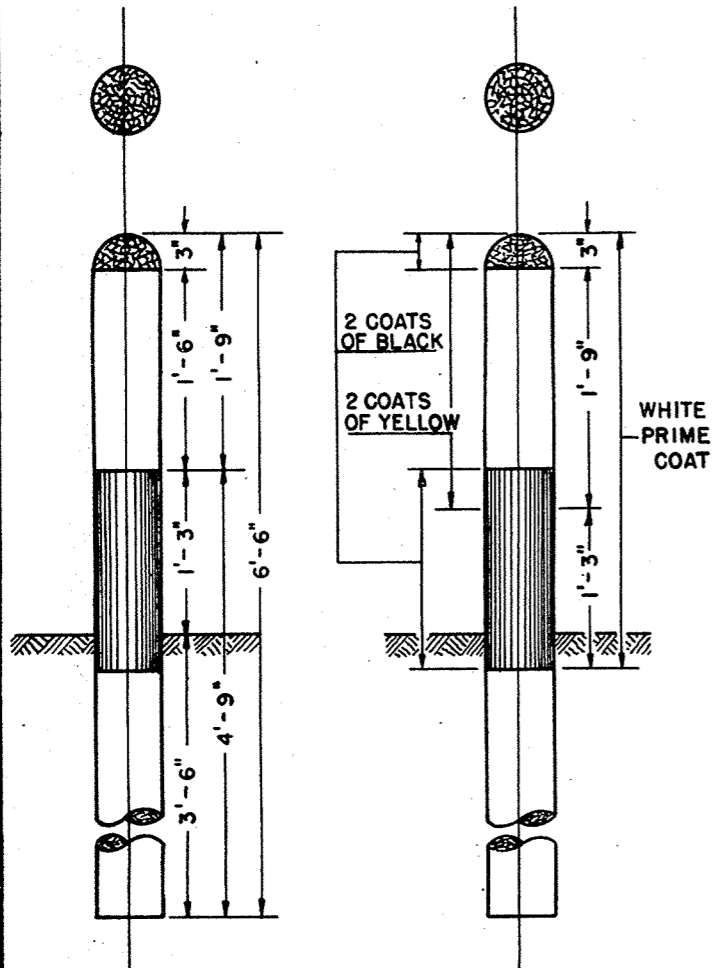
APPROVED:

DATE OCT. 1, 1945

DRAWN DIV. 3  
 CHECKED NFC.

*W. L. Rottman*  
 STATE HIGHWAY ENGINEER

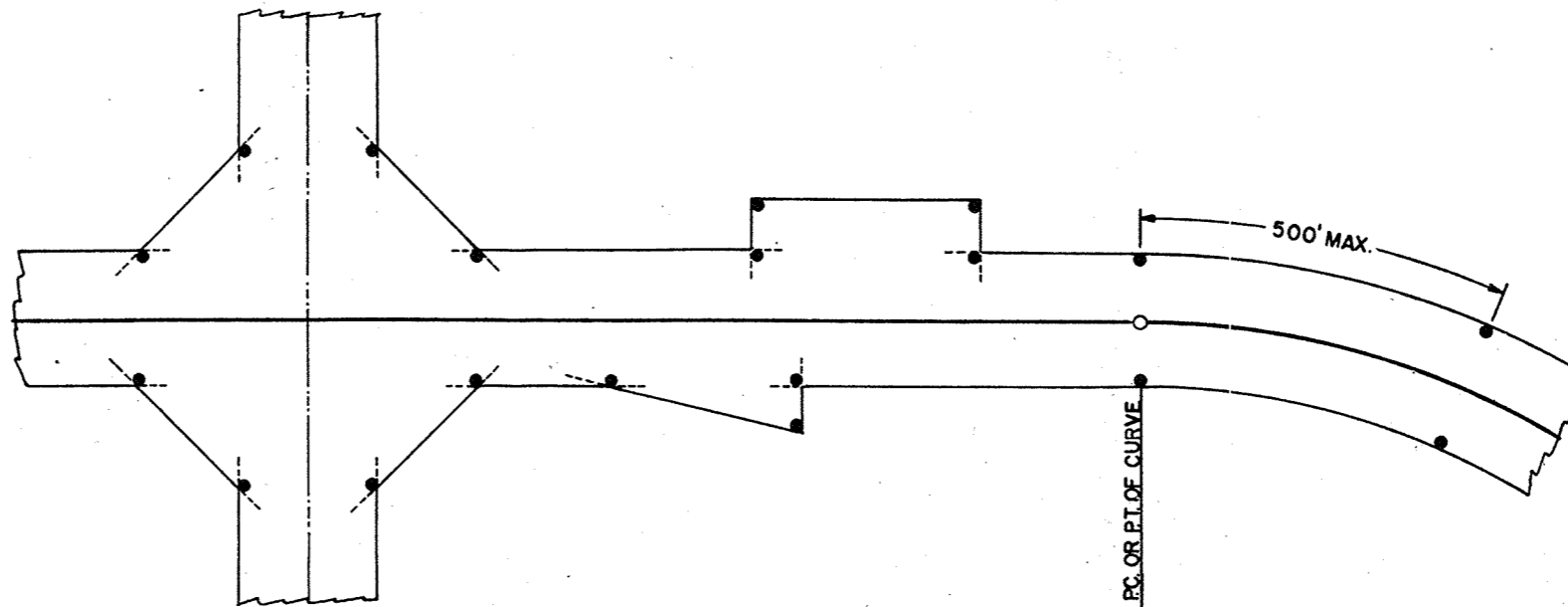




**ELEVATION SHOWING SETTING AND PAINTING**

POSTS MAY BE SHAPED AND PAINTED PRIOR TO SETTING. ANY DAMAGE TO PAINT SURFACE DURING ERECTION MUST BE TOUCHED UP BEFORE ACCEPTANCE.

R/W MARKER POSTS SHALL BE ERECTED IN ADVANCE OF GRADING OPERATIONS.



**TYPICAL PLAN SHOWING LAYOUT OF POSTS.**

**GENERAL NOTES**

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

POSTS SHALL BE 6" CONFORMING TO THE REQUIREMENTS OF SEC. 4124.

POSTS SHALL BE LOCATED AT THE P.C. AND P.T. OF CURVES AND AT JOGS AND BREAKS IN THE R/W LINES. AT LEAST ONE POST SHALL BE SET ON EACH SIDE OF THE ROADWAY BETWEEN THE P.C. AND P.T. NOT MORE THAN 500 FT. FROM THE ADJACENT POSTS. A SUFFICIENT NUMBER OF INTERMEDIATE POSTS ON TANGENT LINES SHALL BE SET SO THAT THEY WILL BE VISIBLE FROM ONE TO THE NEXT.



THE POSTS SHALL BE PLACED AT THE OUTER LIMITS OF THE HIGHWAY BUT ENTIRELY WITHIN THE R/W, AND SHALL BE SO PLACED THAT THE OUTER EDGE OF THE POST WILL BE TANGENT TO THE R/W LINE OR LINES EXTENDED.

THE EXACT LOCATION SHALL BE STAKED IN THE FIELD BY THE ENGINEER.

SEE SEC. 4125.04 (f) FOR YELLOW PAINT SPECIFICATIONS.

SEE SEC. 4125.04 (e) FOR BLACK PAINT SPECIFICATIONS.

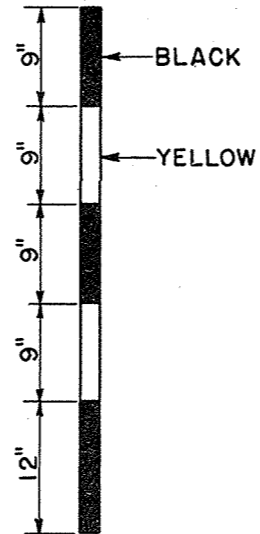
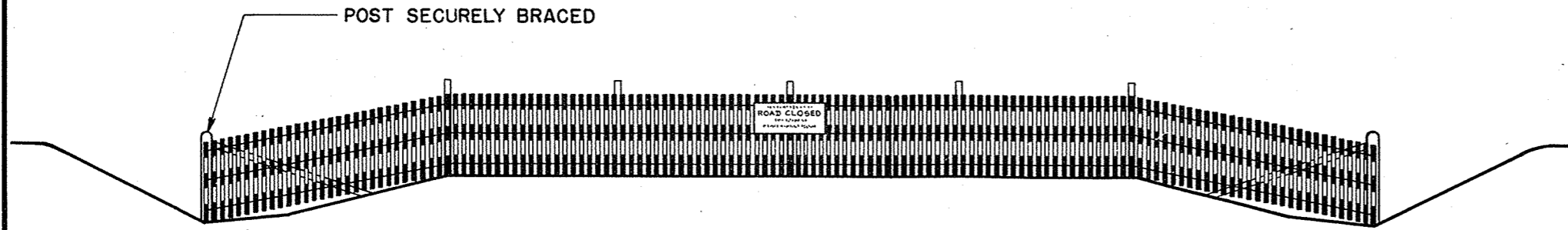
SEE SEC. 4125.04 (c)(1) FOR WHITE PRIME COAT.

<b>MARKER POSTS</b>	
FOR <b>RIGHT OF WAY</b>	
STATE HIGHWAY COMMISSION OF WISCONSIN	
RECOMMENDED FOR APPROVAL:	
 CONSTRUCTION ENGINEER	
APPROVED:	
DATE: JAN. 19, 1950	
DRAWN: J.V.D. CHECKED: M.F.C.	 STATE HIGHWAY ENGINEER



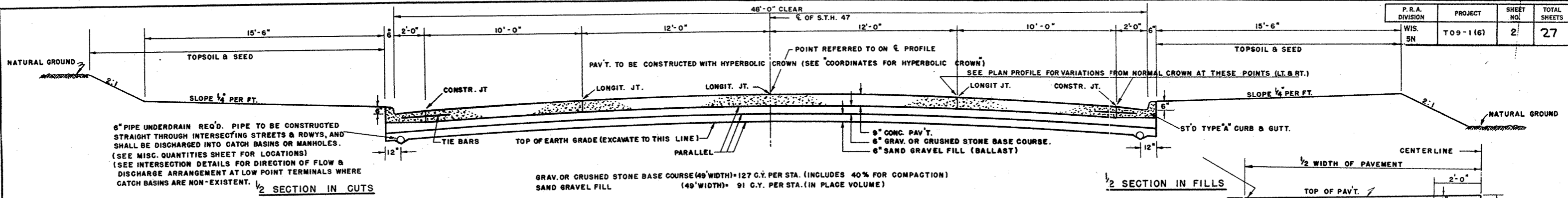
SECTION OF SNOW FENCE TO BE PAINTED ALTERNATELY BLACK AND YELLOW AS SHOWN BELOW.  
 LENGTH TO BE SUFFICIENT TO REACH FROM TOE OF THE BACKSLOPE TO TOE OF THE BACKSLOPE.  
 PROVIDE SUFFICIENT NUMBER OF INTERMEDIATE POSTS TO ADEQUATELY SUPPORT THE FENCE.

STANDARD "ROAD CLOSED" SIGN (W.H.C.- NO. R-15) TO BE ERECTED ON FENCE AT THE TOP ON  
 THE CENTERLINE OF ROAD. SIGN WILL BE FURNISHED BY COMMISSION.



DETAIL SHOWING METHOD OF STRIPING  
 FOR 4' SNOW FENCE.

STATE HIGHWAY COMMISSION OF WISCONSIN	
<b>CONSTRUCTION BARRICADE</b>	
RECOMMENDED FOR APPROVAL:	
<i>Frank Chase</i> DESIGN ENGINEER	
<i>M. Bluh</i> CONSTRUCTION ENGINEER	
APPROVED:-	
DRAWN <i>H.M.</i>	OCT. 1, 1945 <i>E.G. Fottiger</i>
CHECKED <i>WHG</i>	DATE STATE HIGHWAY ENGINEER

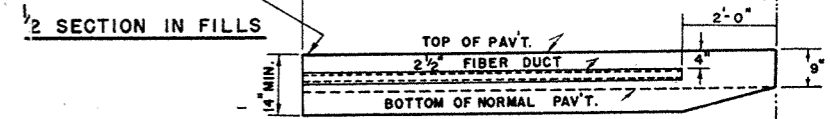


6" PIPE UNDERDRAIN REQ'D. PIPE TO BE CONSTRUCTED STRAIGHT THROUGH INTERSECTING STREETS & ROWYS, AND SHALL BE DISCHARGED INTO CATCH BASINS OR MANHOLES. (SEE MISC. QUANTITIES SHEET FOR LOCATIONS) (SEE INTERSECTION DETAILS FOR DIRECTION OF FLOW & DISCHARGE ARRANGEMENT AT LOW POINT TERMINALS WHERE CATCH BASINS ARE NON-EXISTENT.)

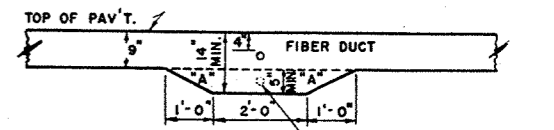
GRAV. OR CRUSHED STONE BASE COURSE (49' WIDTH) = 127 C.Y. PER STA. (INCLUDES 40% FOR COMPACTION)  
SAND GRAVEL FILL (49' WIDTH) = 91 C.Y. PER STA. (IN PLACE VOLUME)

NOTE: ON SUPERELEVATED SECTIONS AND SECTIONS IN TRANSITION (SEE PROFILES), THE HYPERBOLIC CROWN SHALL BE MAINTAINED ONLY ON THE 2-12' LANES ADJACENT TO C. STRAIGHT LINE CROWN SLOPES SHALL BE USED ON THE OUTER 10' LANES. 6" OF BASE COURSE & 6" OF BALLAST SHALL BE CONSTRUCTED UNDER THE PAV'T AT ALL SIDE STREET WIDENINGS.

**NORMAL FINISHED SECTION**



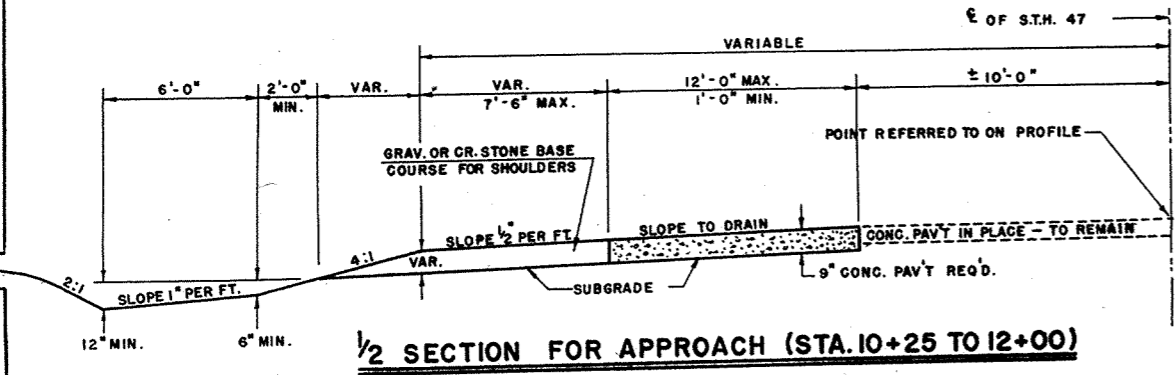
**SECTION AT RT. LS TO CENTERLINE**



**SECTION PARALLEL TO CENTERLINE**

NOTE: DUCT SHALL BE PITCHED TO DRAIN WITH ENDS PLUGGED OR CAPPED & PLACED FLUSH WITH EDGE OF PAV'T. LENGTHS OF DUCT SHALL BE JOINED WITH PROPER COUPLINGS AND FIRMLY FIXED IN PLACE BEFORE POURING SLAB.

**DETAILS FOR PLACEMENT OF FIBER DUCT FOR TRAFFIC SIGNAL DETECTOR**

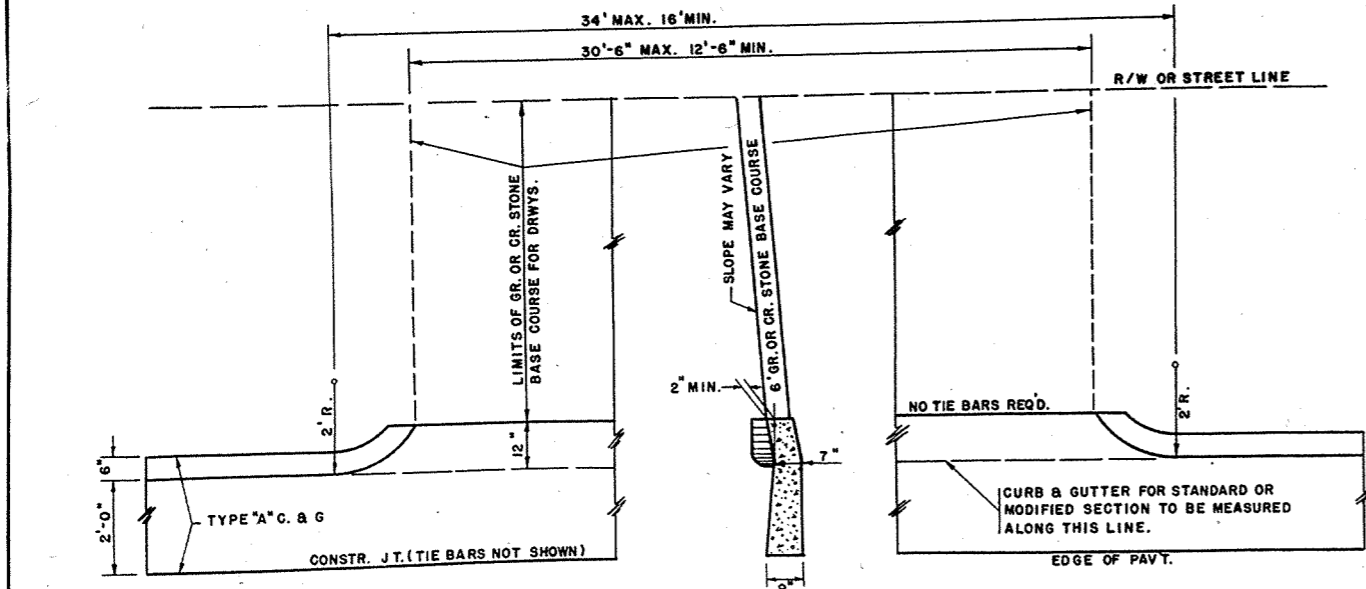


**1/2 SECTION FOR APPROACH (STA. 10+25 TO 12+00)**

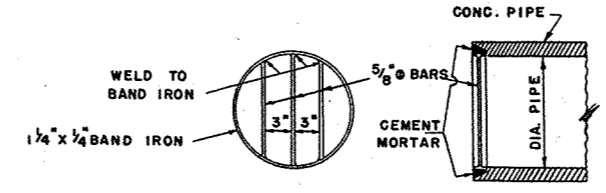
X IN FEET	Y IN INCHES
0	0.00
1	0.02
2	0.08
3	0.14
4	0.26
5	0.40
6	0.57
7	0.76
8	0.98
9	1.22
10	1.48
11	1.75
12	2.06
13	2.35
14	2.67
15	3.00
16	3.35
17	3.68
18	4.02
19	4.40
20	4.77
21	5.14
22	5.52

**COORDINATES FOR HYPERBOLIC CROWN**

$$Y = \sqrt{\frac{X^2}{5} + 36} - 6$$



**DETAILS FOR DRIVEWAYS**



NOTE: GRATE TO BE SECURED IN END OF PIPE WITH CEMENT MORTAR. COST OF GRATE AND INSTALLATION TO BE INCLUDED IN THE UNIT BID PRICE FOR PIPE.

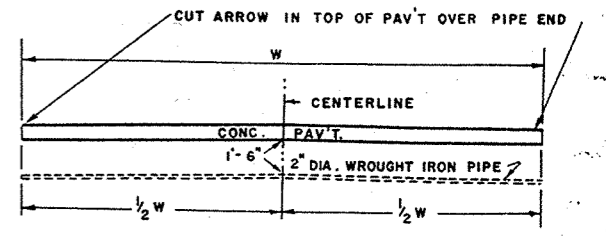
**SPEC. INLET GRATE FOR SEWER PIPE**

**GENERAL NOTES**

CONSTRUCTION DETAILS NOT SHOWN HERE SHALL CONFORM TO THE PERTINENT REQUIREMENTS OF THE STANDARD SPECIFICATIONS, APPROVED STD DRAWINGS, AND THE APPLICABLE SPECIAL PROVISIONS. THIS PROJECT IS DESIGNED FOR 2-12 FT. TRAVEL LANES AND 2-12 FT. PARALLEL PARKING LANES.

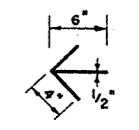
**APPROVED STANDARD DRAWINGS:**

- CONC. CURB, GUTTER, COMB. CURB & GUTTER, SURFACE DRAIN 3-1.1.3
- JOINT DETAILS 4-4.4.1
- CATCH BASIN-TYPE "F" 5-1.6.1
- MANHOLE - 42" DIA. 5-3.2.1
- TREE PRESERVATION DETAILS 6-1.1.1
- CULVERT ENDWALLS (M.R.M. TYPE "A") 6-3.1.1
- MARKER POSTS FOR RIGHT OF WAY 7-1.2.2
- CONSTRUCTION BARRICADE 7-4.1.1

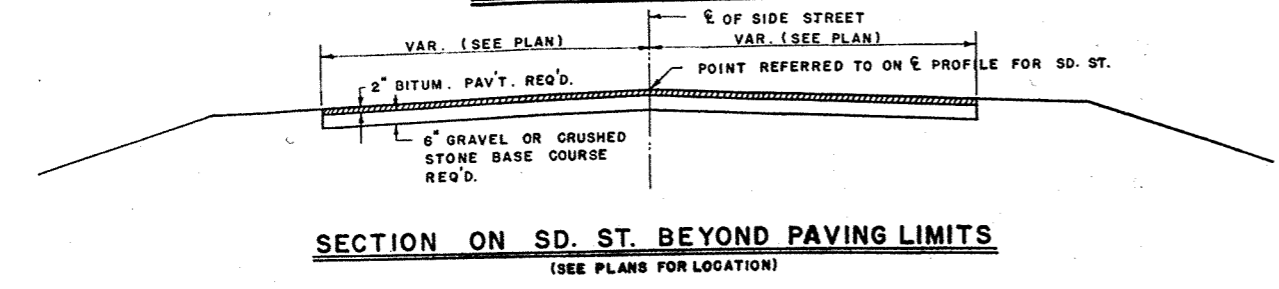


PIPE TO BE CAPPED OR PLUGGED AT EACH END. LENGTHS OF PIPE SHALL BE JOINED WITH PROPER COUPLING AND SHALL BE PITCHED TO DRAIN.

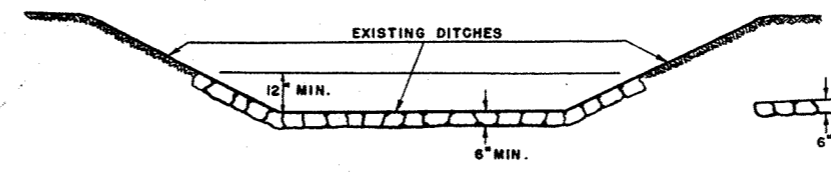
**DETAILS FOR PLACEMENT OF W.I. PIPE CONDUIT FOR TRAFFIC SIGNAL CABLE.**



**ARROW TO BE CUT IN PAV'T. OVER PIPE**

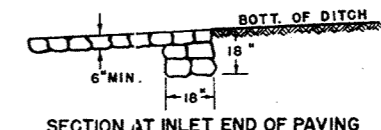


**SECTION ON SD. ST. BEYOND PAVING LIMITS**  
(SEE PLANS FOR LOCATION)



**GRouted RUBBLE PAVING IN DITCHES**

AT INLET & DISCH. OF 48" PIPE AT STA. 50+95



**SECTION AT INLET END OF PAVING**

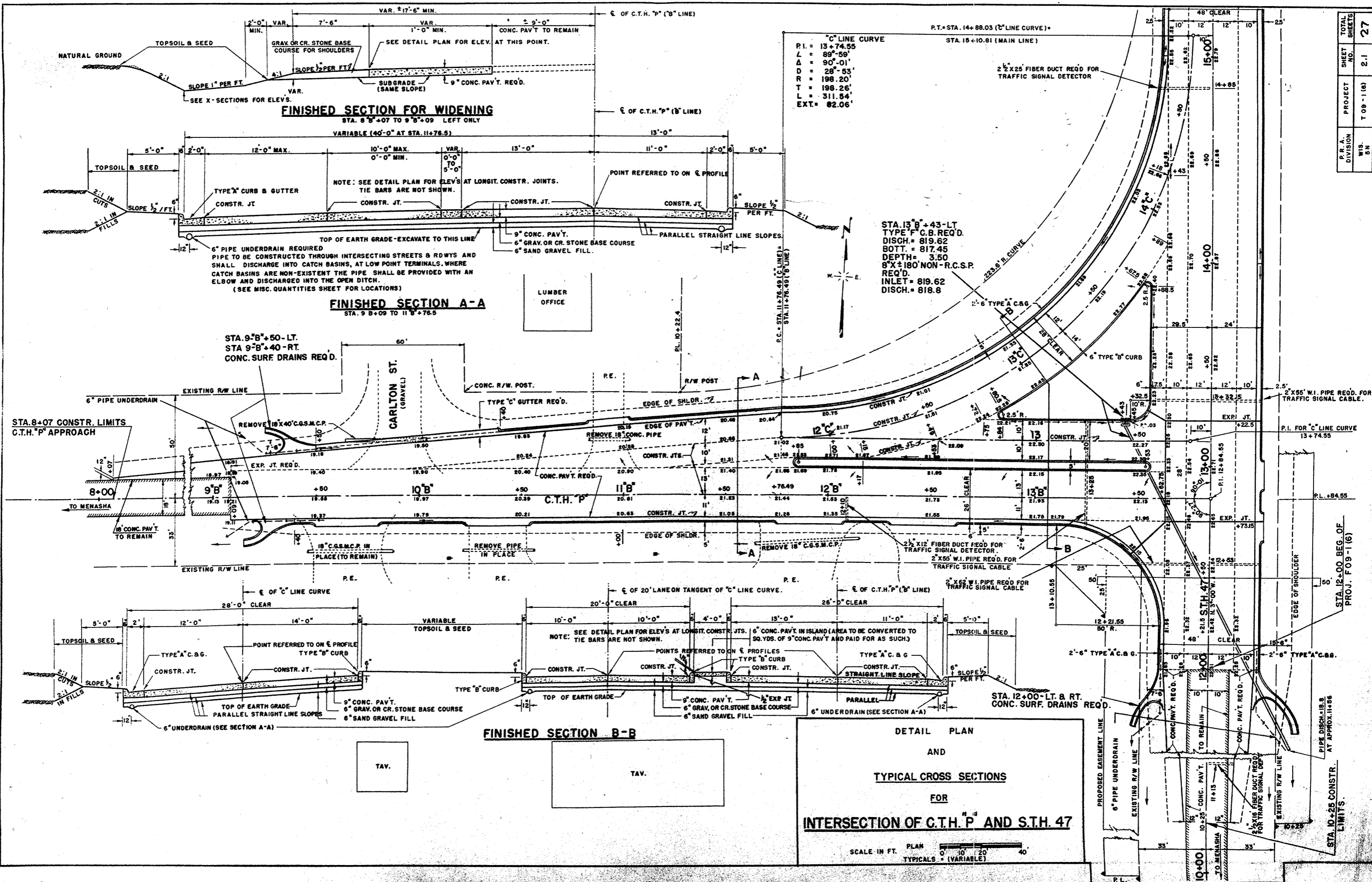
**TYPICAL CROSS SECTIONS FOR**

48 FT. RDBD      44 FT. CONCRETE PAV'T.

AND

**MISCELLANEOUS CONSTRUCTION DETAILS**

(VARIABLE SCALE)



**DETAIL PLAN AND TYPICAL CROSS SECTIONS FOR INTERSECTION OF C.T.H. 'P' AND S.T.H. 47**

SCALE IN FT. PLAN 0' 10' 20' 40'  
TYPICALS = (VARIABLE)

**FINISHED SECTION FOR WIDENING**  
STA. 8<sup>B</sup>+07 TO 9<sup>B</sup>+09 LEFT ONLY

**FINISHED SECTION A-A**  
STA. 9<sup>B</sup>+09 TO 11<sup>B</sup>+76.5

**FINISHED SECTION B-B**

**"C" LINE CURVE**  
P.I. = 13+74.55  
L = 89'-59'  
A = 90°-01'  
D = 28'-53'  
R = 198.20'  
T = 198.26'  
L = 311.54'  
EXT. = 82.06'

STA. 13<sup>B</sup>+43-LT.  
TYPE "C" C.B. REQ'D.  
DISCH. = 819.62  
BOT. = 817.45  
DEPTH = 3.50  
8" X 180" NON-R.C.S.P. REQ'D.  
INLET = 819.62  
DISCH. = 818.8

STA. 9<sup>B</sup>+50-LT.  
STA. 9<sup>B</sup>+40-RT.  
CONC. SURF DRAINS REQ'D.

STA. 8+07 CONSTR. LIMITS  
C.T.H. "P" APPROACH

STA. 12+00-LT. & RT.  
CONC. SURF DRAINS REQ'D.

STA. 12+00 BEG. OF  
PROJ. F09-1(6)

STA. 10+25 CONSTR. LIMITS

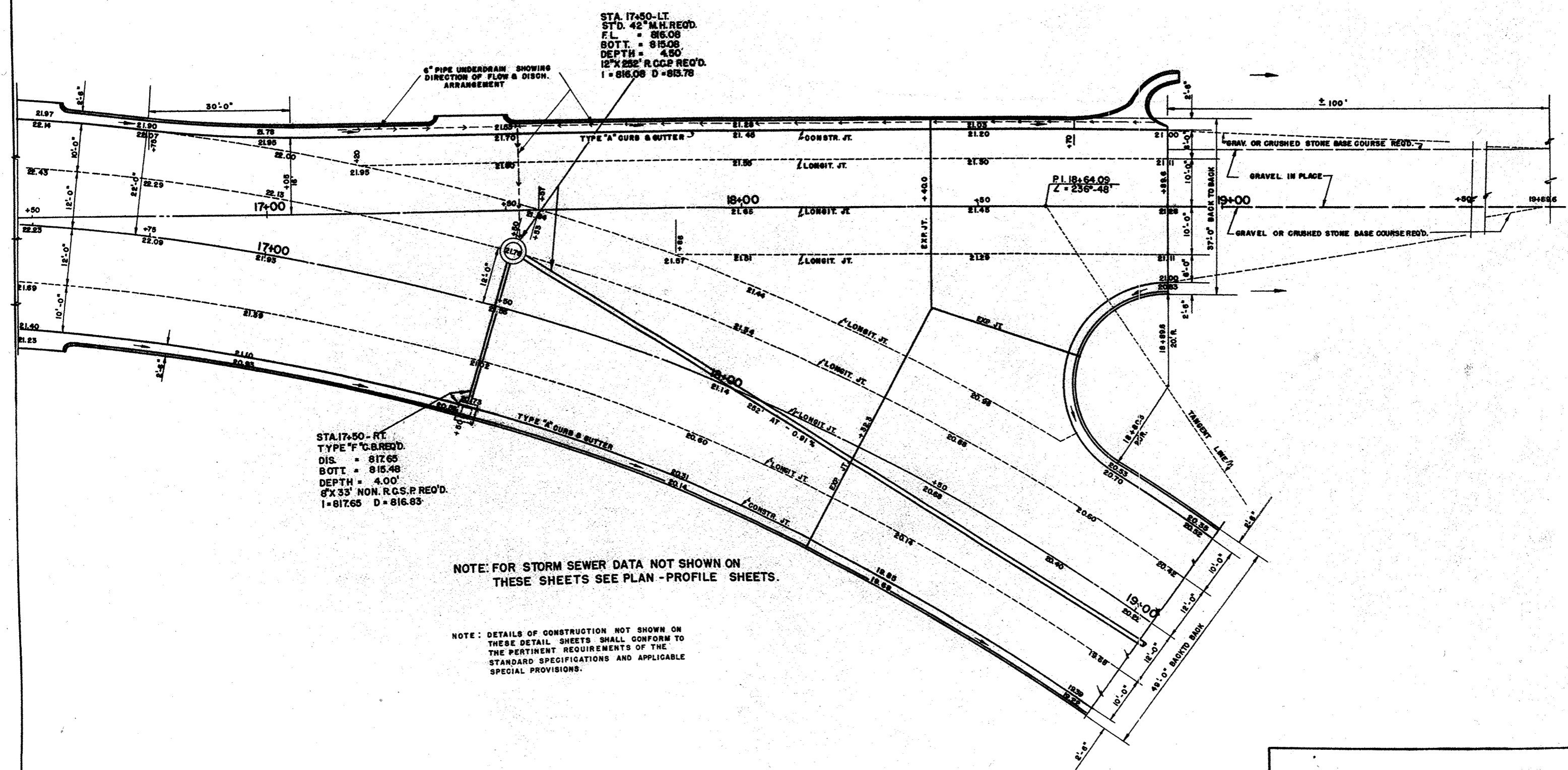
TAV.

TAV.

LUMBER OFFICE

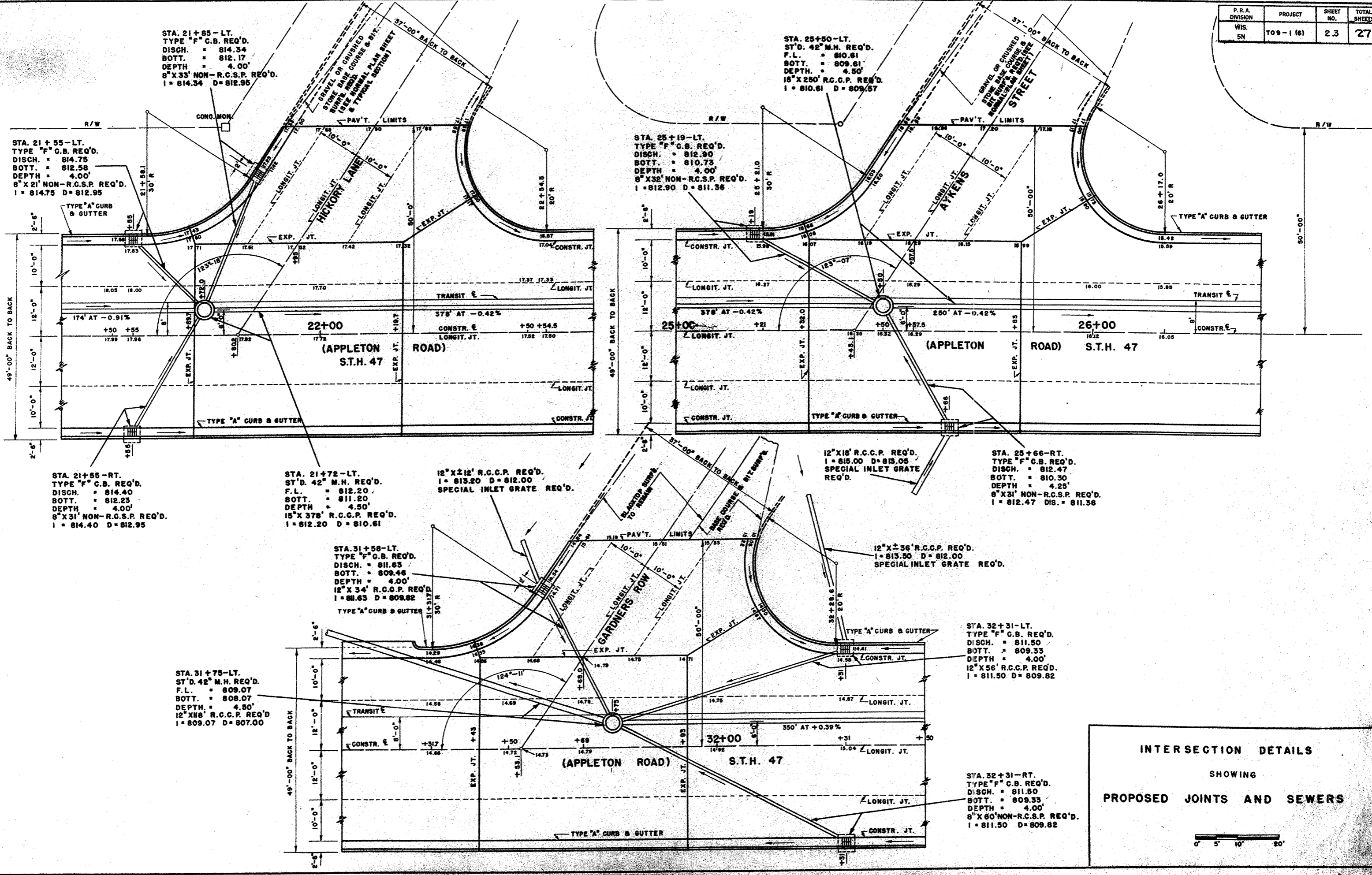
P.I. FOR "C" LINE CURVE  
13+74.55

PIPE DISCH. 18.8  
AT APPROX. 11+85





P.R.A. DIVISION	PROJECT	SHEET NO.	TOTAL SHEETS
WIS. 5N	TO 9-1 (6)	2.3	27



**INTERSECTION DETAILS**  
SHOWING  
**PROPOSED JOINTS AND SEWERS**

0' 5' 10' 20'

COUNTY AND HIGHWAY	ROUTE AND SECTION	CLASS AND AGREEMENT	FEDERAL DIVISION OFFICE	SHEET NUMBER	TOTAL SHEETS
70.1	9.1	21.6	WIS. 5N	2.4	27

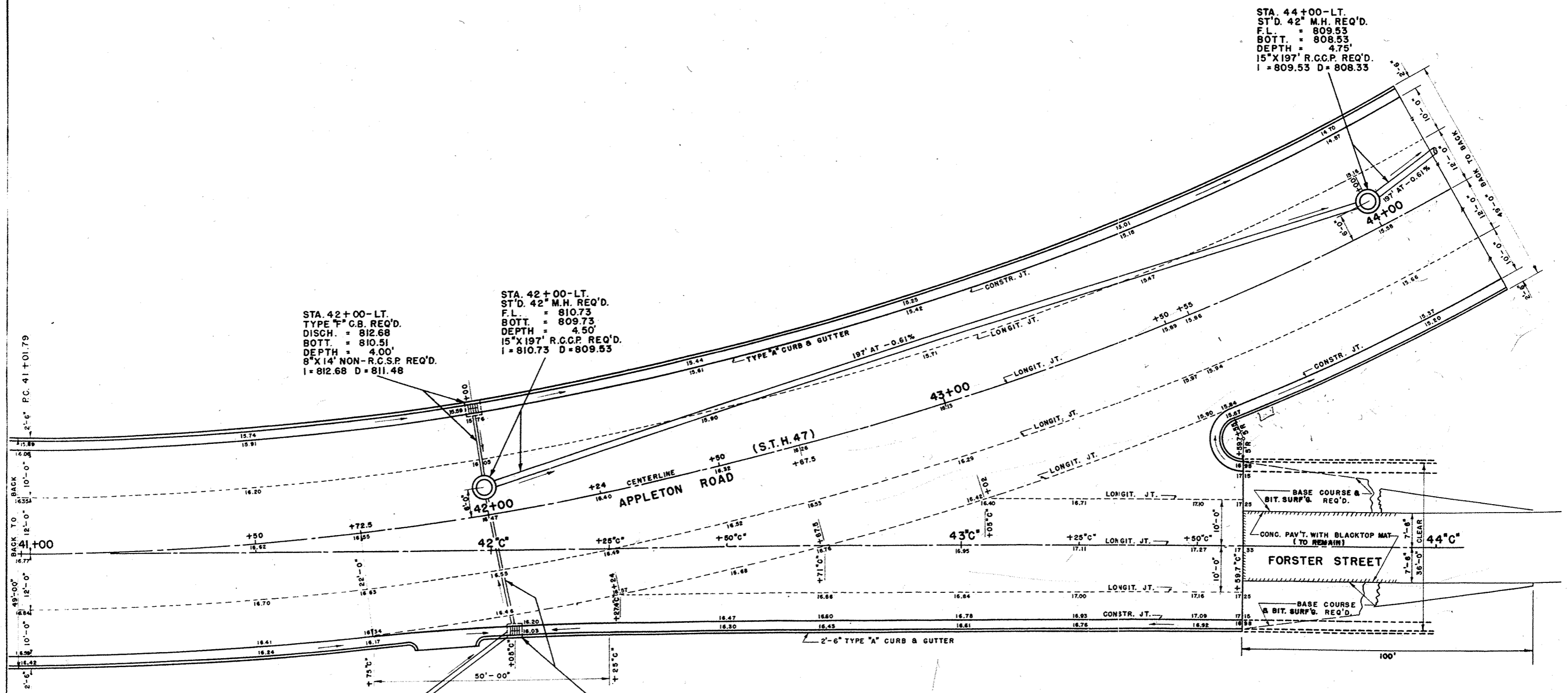
STA. 44+00-LT.  
 ST'D. 42" M.H. REQ'D.  
 F.L. = 809.53  
 BOTT. = 808.53  
 DEPTH = 4.75'  
 15"X197' R.C.C.P. REQ'D.  
 I = 809.53 D = 808.33

STA. 42+00-LT.  
 TYPE "F" C.B. REQ'D.  
 DISCH. = 812.68  
 BOTT. = 810.51  
 DEPTH = 4.00'  
 8"X14' NON-R.C.S.P. REQ'D.  
 I = 812.68 D = 811.48

STA. 42+00-LT.  
 ST'D. 42" M.H. REQ'D.  
 F.L. = 810.73  
 BOTT. = 809.73  
 DEPTH = 4.50'  
 15"X197' R.C.C.P. REQ'D.  
 I = 810.73 D = 809.53

12"X30' R.C.C.P. REQ'D.  
 I = 815.00 D = 813.50  
 SPECIAL INLET GRATE REQ'D.

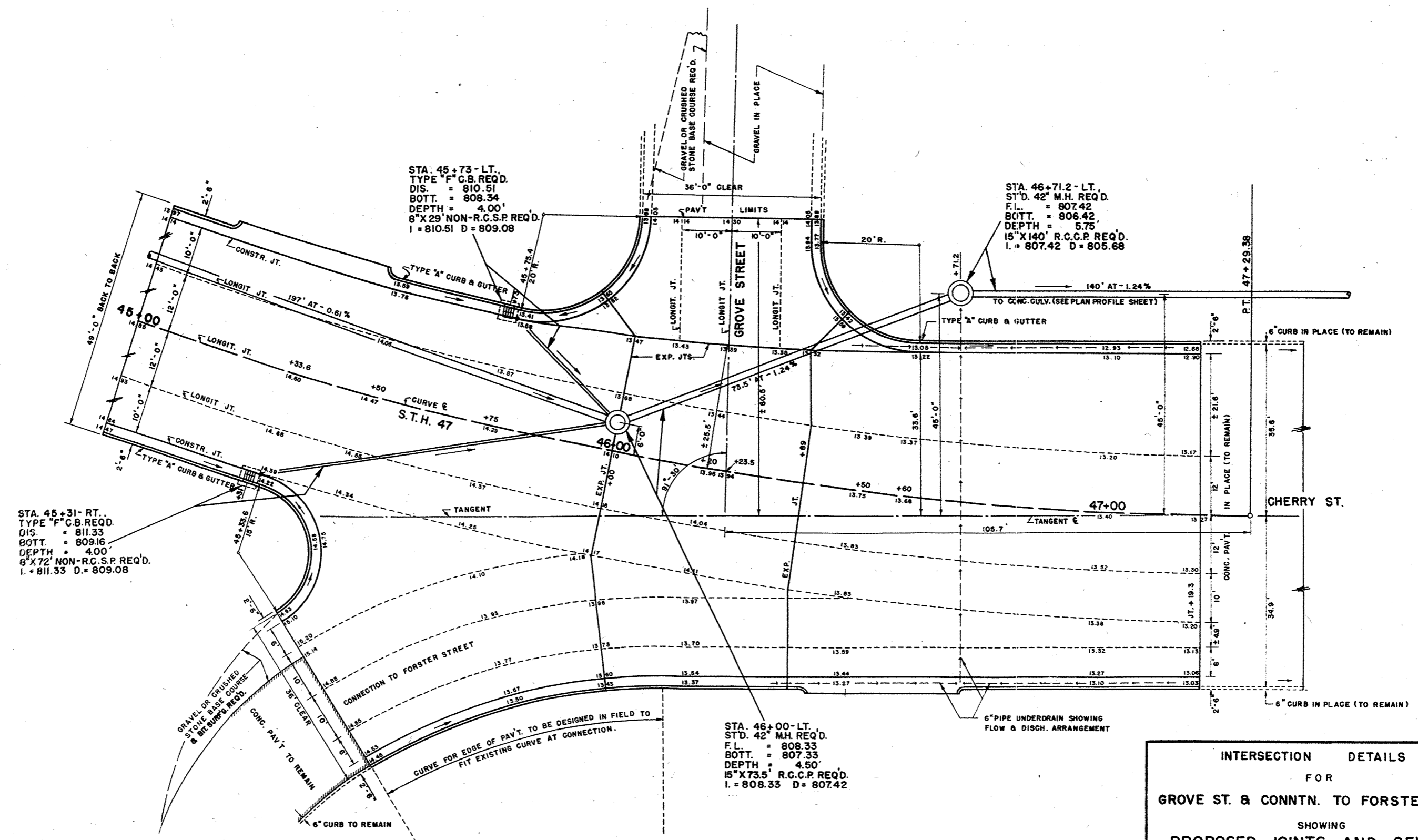
STA. 42+05-RT.  
 TYPE "F" C.B. REQ'D.  
 DISCH. = 812.87  
 BOTT. = 810.70  
 DEPTH = 4.25'  
 8"X28' NON-R.C.S.P. REQ'D.  
 I = 812.87 D = 811.48



**INTERSECTION DETAILS  
 AT FORSTER ST.**

SHOWING  
**PROPOSED JOINTS AND SEWERS**

SCALE  
 0' 5' 10' 20'



STA. 45+73 - LT.  
 TYPE "F" C.B. REQ'D.  
 DIS. = 810.51  
 BOT. = 808.34  
 DEPTH = 4.00'  
 8" X 29' NON-R.C.S.P. REQ'D.  
 I = 810.51 D = 809.08

STA. 46+71.2 - LT.  
 STD. 42" M.H. REQ'D.  
 F.L. = 807.42  
 BOT. = 806.42  
 DEPTH = 5.75'  
 15" X 140' R.C.C.P. REQ'D.  
 I = 807.42 D = 805.68

STA. 45+31 - RT.  
 TYPE "F" C.B. REQ'D.  
 DIS. = 811.33  
 BOT. = 809.16  
 DEPTH = 4.00'  
 8" X 72' NON-R.C.S.P. REQ'D.  
 I = 811.33 D = 809.08

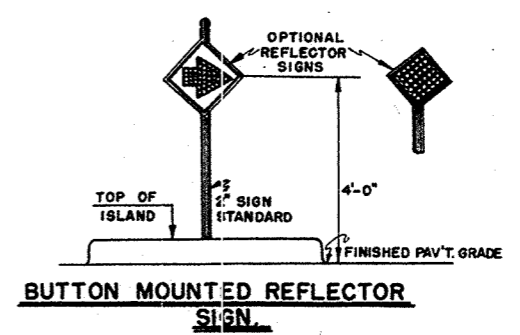
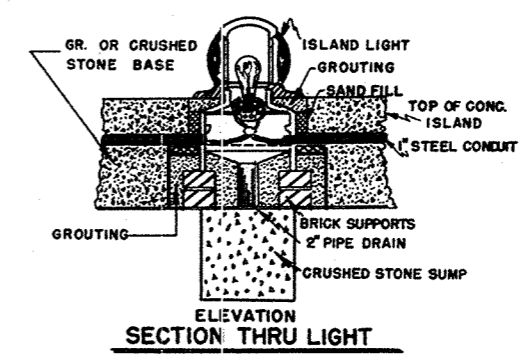
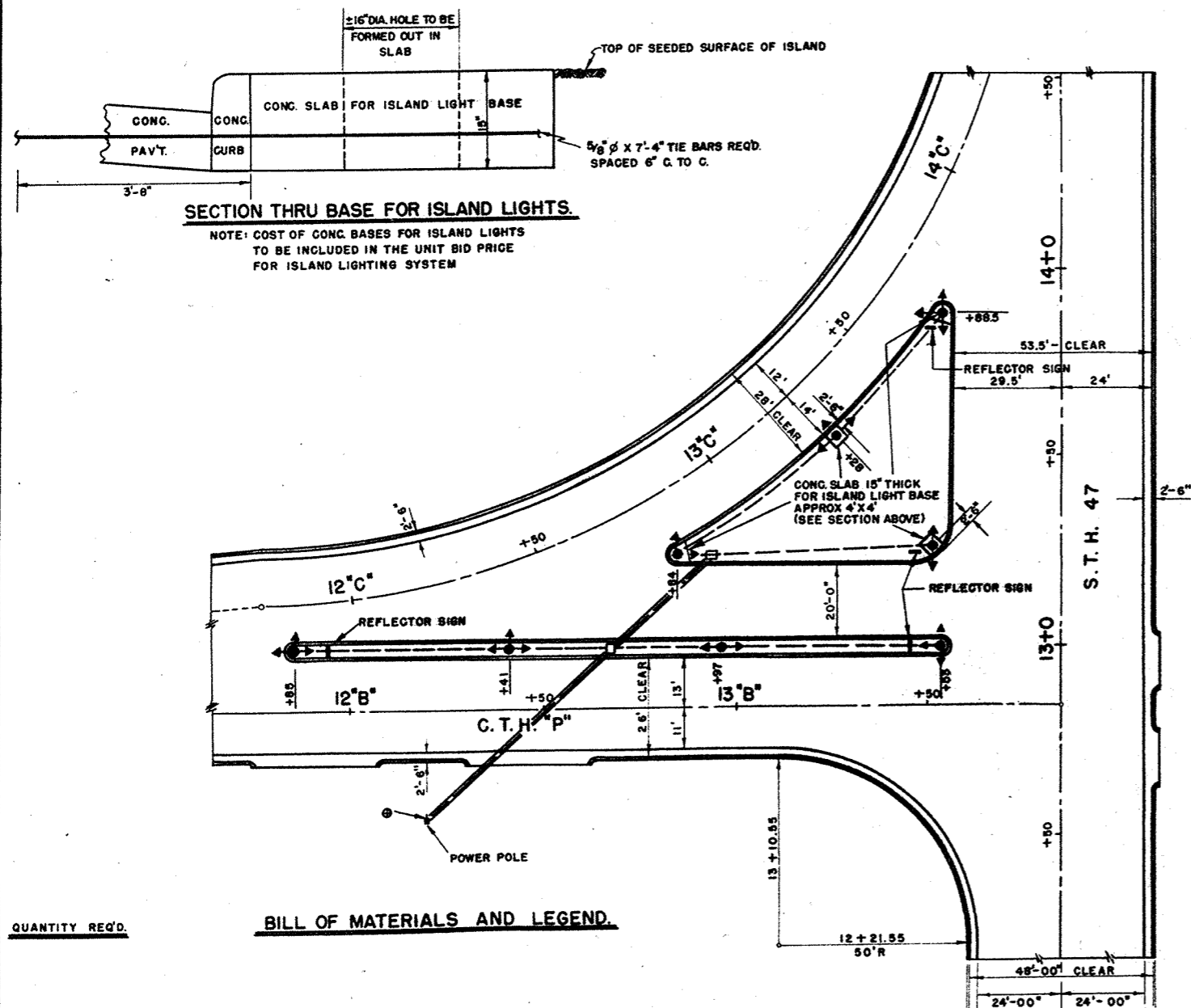
STA. 46+00 - LT.  
 STD. 42" M.H. REQ'D.  
 F.L. = 808.33  
 BOT. = 807.33  
 DEPTH = 4.50'  
 15" X 73.5' R.C.C.P. REQ'D.  
 I = 808.33 D = 807.42

**INTERSECTION DETAILS**  
 FOR  
**GROVE ST. & CONNTN. TO FORSTER STREET**  
 SHOWING  
**PROPOSED JOINTS AND SEWERS**

SCALE  
 0' 5' 10' 20'



S.P.R. DIVISION	PROJECT	SHEET NUMBER	TOTAL SHEETS
5N	T 09-1(6)	2.6	27



- QUANTITY REQ'D.**
- BILL OF MATERIALS AND LEGEND.**
- 460 LIN. FT. ——— 1" STD. RIGID STEEL GALV. CONDUIT WITH NO. 14 MOISTURE PROOF 600 VOLT 3 CONDUCTOR WIRE
  - 100 LIN. FT. ——— 2" I. D. NON-METALLIC DUCT
  - 2 □ MANHOLE SPLICE BOX (SPLICE BOX TO BE CONSTR. OF CONG. APPROX. 16" X 16" X 16" WITH OPEN BOTTOM TO PROVIDE DRAINAGE & FITTED WITH CAST IRON COVER EQUAL TO NO. 229 IN BOTH WESTINGHOUSE AND GRAYBAR CATALOGS.)
  - 5 ←→ 3 LENS ISLAND MARKER LIGHTS 90° BETWEEN LENSES
  - 2 ←→ 2 LENS ISLAND MARKER LIGHTS 180° BETWEEN LENSES
  - 1 ←→ 2 LENS ISLAND MARKER LIGHTS 90° BETWEEN LENSES
  - 4 ——— BUTTON MOUNTED REFLECTOR SIGN.
  - 2 ● PHOTO ELECTRIC LIGHT CONTROL (MOUNTED ON POWER POLE) EQUIVALENT TO NO. 44331 OF GROUSE - HINDS CO.
- THESE ITEMS TO BE FURNISHED BY THE STATE HIGHWAY COMM.

PLAN FOR  
ISLAND LIGHTING SYSTEM  
AT  
INTERSECTION S. T. H. 47 AND C. T. H. "P"

SCALE IN FEET  
0 5 10 20 40

# ESTIMATE OF QUANTITIES

CONTRACT NO. 1

THIS PROJECT IS TO BE EXECUTED UNDER THE STANDARD SPECIFICATIONS FOR ROAD AND BRIDGE CONSTRUCTION OF THE STATE HIGHWAY COMMISSION OF WISCONSIN - EDITION OF 1951 AND SPECIAL PROVISIONS ATTACHED TO PROPOSALS

S. P. R. DIVISION	PROJECT	SHEET NO.	TOTAL SHEETS
WS. 5N	T 09-100	3	27

SEC. NO.	STATION TO STATION	NET LENGTH OF CENTER LINE	CLEARING		GRUBBING		REMOVING PAVEMENT		REMOVING OLD BRIDGE		EXCAVATION				SAND GRAVEL FILL	FINE GRADING	SHOULDER EMBANKMENT	FINISHING ROADWAY	OBLITERATING OLD ROAD	CONCRETE		GRAVEL OR CRUSHED STONE BASE COURSE		CONCRETE PAVEMENT			CONCRETE HEADERS	CONCRETE SURFACE DRAINS	CONCRETE PAVEMENT REINF.	PREPARED FOR BITUM. SURF.	BITUM. MAT. FOR PRIME COAT	SINGLE AGGR. BIT. SURFACE	BIT. MATERIAL FOR SURFACE COURSE	BITUM. MAT. FOR SURFACE COURSE	
			STA.	ACRE	STA.	ACRE	2103-1	2104-2	UNCL.	ROCK	MARSH	BORROW	BASE COURSE	IN STOCK PILES						9" THICK	2301-5	2301-6	2301-7	2310-1	2311-1	2315-1									2314-1
			UNIT	LIN. FT.	STA.	ACRE	SQ. YD.	L.S.	C.Y.	C.Y.	C.Y.	C.Y.	C.Y.	C.Y.						C.Y.	C.Y.	SQ. YD.	SQ. YD.	SQ. YD.	SQ. YD.	SQ. YD.									SQ. YD.
	12+00 - 47+19.3	3,519.3	18	18	10,550						19,500			4,300			46				7,100	22,700			25					240	75	5			
TOT		3,519.3	18	18	10,550						19,500			4,300			46				7,100	22,700			25				240	75	5				

BRIDGES (STRUCTURES OVER 20 FT. SPAN)																		CULVERTS (STRUCTURES 20 FT. SPAN & UNDER)																						
SEC. NO.	REMOVE OLD BRIDGE STA.	COM. MON. EXC.	EXCAVATION FOR STRUCTURES	SAND GRAVEL FILL	CONCRETE MASONRY	BAR STEEL REINF.	STRUCTURAL STEEL	STEEL CASTINGS	CARBON STEEL FORGINGS	SHEET LEAD	SHEET ZINC	TR'D LUMBER AND TEST	UNTR'D LUMBER AND TEST	UNTREATED TIMBER PILING		TREATED TIMBER PILING		FLOOR DRAINS	RIP-RAP	REMOVE OLD CULV. STA.	COM. MON. EXC.	EXCAVATION FOR STRUCTURES	SAND GRAVEL FILL	CONCRETE MASONRY	BAR STEEL REINF.	STRUCTURAL STEEL	STEEL CASTINGS	CARBON STEEL FORGINGS	SHEET LEAD	SHEET ZINC	TR'D LUMBER AND TEST	UNTR'D LUMBER AND TEST	TREATED TIMBER PILING		FLOOR DRAINS	RIP-RAP				
														DELIV. ER	DRIV. EN	DELIV. ER	DRIV. EN																DELIV. ER	DRIV. EN			DELIV. ER	DRIV. EN	DELIV. ER	DRIV. EN
	2104-21	2106-1	2107-1	2110-1	2401-1	2406-2	2407-	2407-3	2407-4	2407-9	2407-11	2408-2	2501-1	2501-2	2501-3	2501-4	2501-5	2507-1	2512-1	2104-1	2106-1	2107-2	2110-1	2404-1	2406-3	2407-	2407-3	2407-4	2407-9	2407-11	2408-2	2501-1	2501-4	2501-5	2507-1	2512-1				
	L.S.	C.Y.	C.Y.	C.Y.	C.Y.	LB.	LB.	LB.	LB.	LB.	LB.	M.B.M.	L.S.	LIN. FT.	LIN. FT.	LIN. FT.	LIN. FT.	EACH	C.Y.	L.S.	C.Y.	C.Y.	C.Y.	C.Y.	LB.	LB.	LB.	LB.	LB.	LB.	M.B.M.	L.S.	LIN. FT.	LIN. FT.	EACH	C.Y.				

SEC. NO.	RUBBLE MASONRY	CULVERT				PIPE				RIP-RAP	HEAVY RIPRAP	RUBBLE PAVING		DITCH CHECKS	PIPE UNDER DRAIN	STORM SEWER				CATCH BASINS	MANHOLES	INLETS	CONCRETE			GUARD FENCE			MARKER POSTS FOR R-O-W	MARKER POSTS FOR R-O-W	CALCIUM CHLORIDE SURFACE TREATMENT	TOP SOIL	SALVAGED TOP SOIL	FERTILIZER	SEEDING	SODDING	2" W.I. PIPE FOR TRAFFIC SIGNAL CABLE	FIBER DUCT FOR TRAFFIC SIGNAL DETECTOR 2 1/2"	ISLAND LIGHTING SYSTEM									
		18"	48"																8"				12"	15"				TYPE "B" CURB												TYPE "B" CURB AND BUTTER	SUTTER	CABLE	TIMBER RAIL	ANCHORAGES FOR CABLE	MARKER POSTS	MARKER POSTS FOR R-O-W	TON	SQ. YD.
	2409-2	2409-3	2411-	2411-	2411-31	2411-32	2411-	2411-	2411-	2411-	2411-	2411-	2411-	2512-1	2512-2	2515-1	2515-2	2515-	2515-	S.P.	2519-11	2519-11	2519-11	2519-11	2520-1	2520-	2520-11	2520-11	2520-	2520-	2521-1	2521-3	2521-2	2523-1	2523-2	2523-2	2523-3	2523-4	2525-1	2528-1	2528-2	2531-1	2532-1	2533-1	S.P.	S.P.		
	C.Y.	C.Y.	LIN. FT.	LIN. FT.	LIN. FT.	LIN. FT.	LIN. FT.	LIN. FT.	LIN. FT.	LIN. FT.	LIN. FT.	LIN. FT.	LIN. FT.	C.Y.	C.Y.	SQ. YD.	SQ. YD.		C.Y.	LIN. FT.	LIN. FT.	LIN. FT.	LIN. FT.	LIN. FT.	LIN. FT.	EACH	EACH	EACH	EACH	EACH	EACH	LIN. FT.	LIN. FT.	LIN. FT.	LIN. FT.	LIN. FT.	EACH	EACH	EACH	TON	SQ. YD.	SQ. YD.	CWT.	SQ. YD.	SQ. YD.	LIN. FT.	LIN. FT.	L.S.
	12	20			32	112								15		30				8,100	689	1,152	1,538	20	12	3			600	7,700	90				13		14,000	26	14,000		172	53	1					
TOT	12	20			32	112								15		30				8,100	689	1,152	1,538	20	12	3			600	7,700	90				13		14,000	26	14,000		172	53	1					

UNDISTRIBUTED

AT SURFACE DRAIN DISCHARGES AND UNDISTRIBUTED





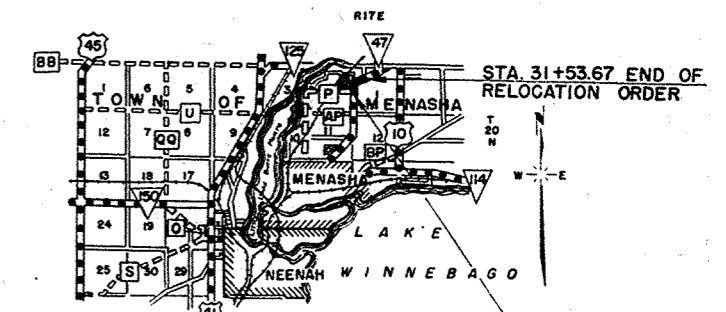
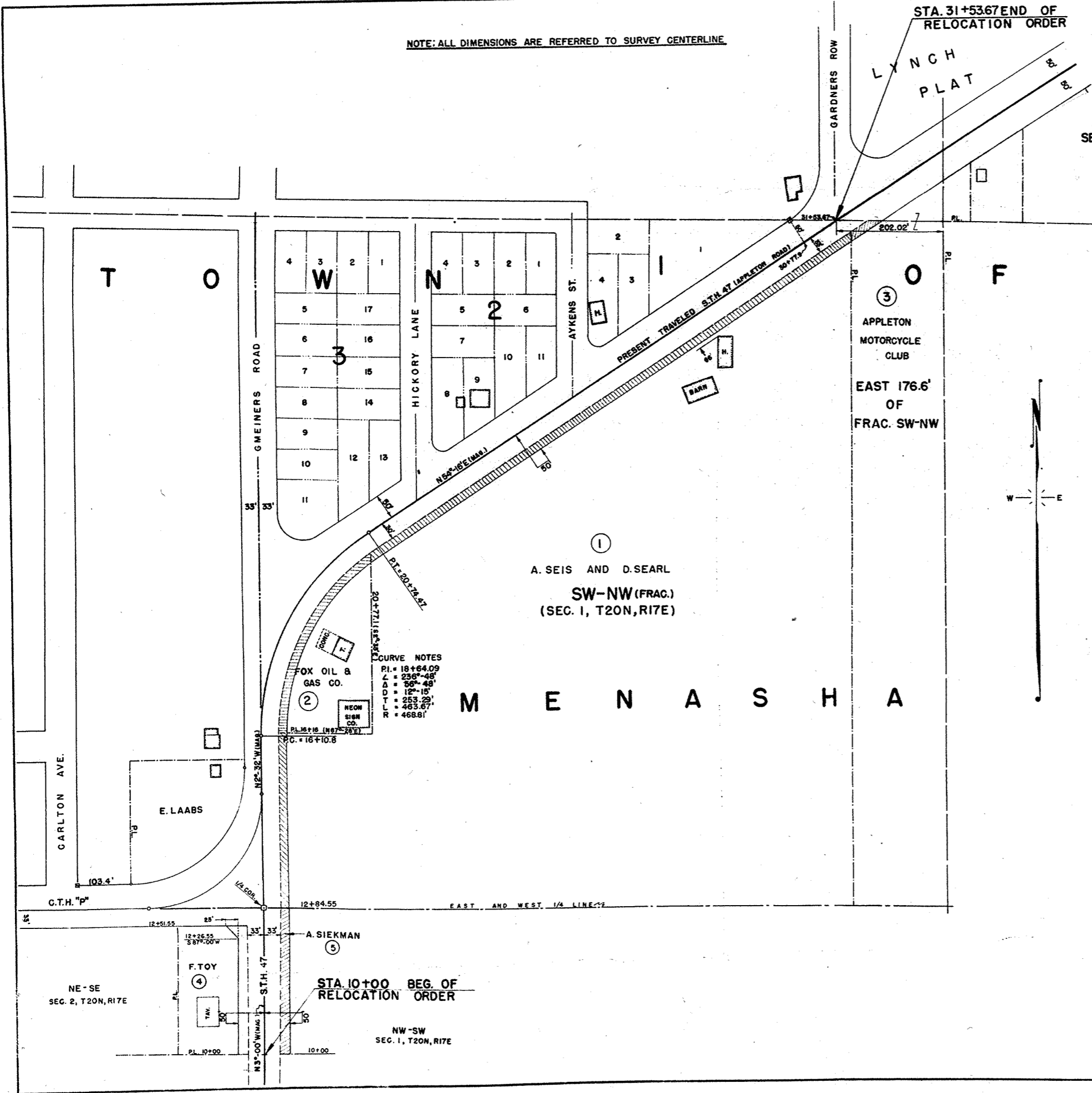
NOTE: ALL DIMENSIONS ARE REFERRED TO SURVEY CENTERLINE

COUNTY AND HIGHWAY	ROUTE AND SECTION	CLASS AND AGREEMENT		FEDERAL DIVISION OFFICE	SHEET NUMBER	TOTAL SHEETS
70.1	9.1	STATE	FEDERAL	21.6	WIS. 5N	4 27

NE-NW  
SEC. 1, T20N, R17E

SCHEDULE OF LAND AND INTEREST REQUIRED

NO.	OWNER	ACRES REQ'D.	RODS OF FENCING TO MOVE	RODS TO BUILD	INTEREST REQUIRED
1	A. SEIS & D. SEARL	0.62	63		HIGHWAY EASEMENT
2	THE FOX OIL AND GAS CO.	0.20			" "
3	APPLETON MOTORCYCLE CLUB	0.02	11		" "
4	F. TOY				LIMITED HIGHWAY EASEMENT
5	A. SIEKMAN	0.13	17		HIGHWAY EASEMENT



STATE HIGHWAY COMMISSION OF WISCONSIN  
**PLAT OF RIGHT OF WAY REQUIRED**  
**PROJECT T 09-1(6)**  
 C.T.H. "P" - APPLETON ROAD  
 S.T.H. 47 WINNEBAGO COUNTY

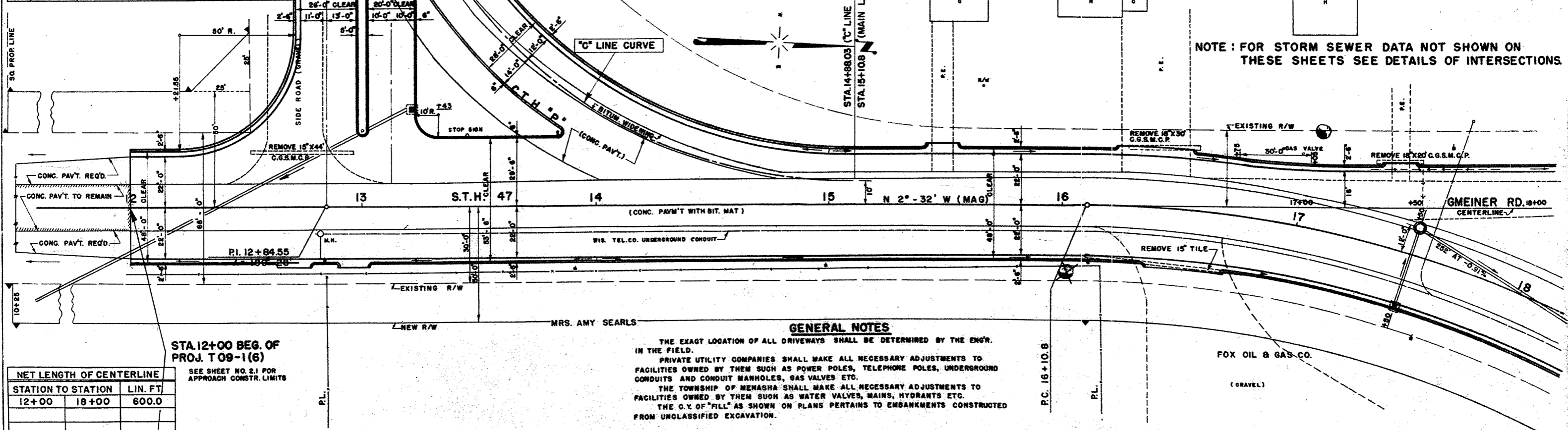
SCALE  
 0 100' 200'  
 LENGTH = 0.408 MILES

MAR. 18, 1952  
 FEB. 6, 1952  
 DATED DEC. 11, 1951

BENCH MARKS			
NO.	STATION	DESCRIPTION	ELEV.
2	13+00	PNT. + ON CONC. TREE WELL 162'R	822.37
3	16+34	" " NO. END GAR. RAMP 65'L	824.37

NOTE: SEE SHEET NO. 2.1 FOR CONSTR. DETAILS ON C.T.H. "P"

B.P.R. DIVISION	PROJECT	SHEET NUMBER	TOTAL SHEETS
SN	T 09-1(6)	5	27



NOTE: FOR STORM SEWER DATA NOT SHOWN ON THESE SHEETS SEE DETAILS OF INTERSECTIONS

STA. 12+00 BEG. OF PROJ. T 09-1(6)

NET LENGTH OF CENTERLINE	
STATION TO STATION	LIN. FT.
12+00	18+00
	600.0

SEE SHEET NO. 2.1 FOR APPROACH CONSTR. LIMITS

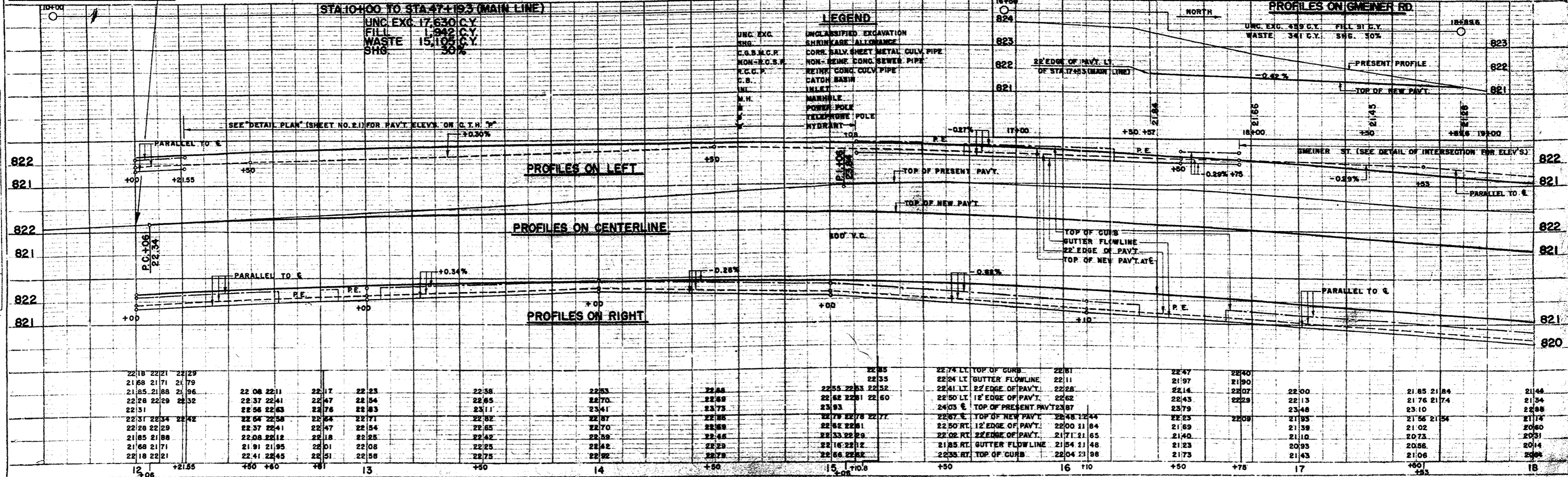
**GENERAL NOTES**

THE EXACT LOCATION OF ALL DRIVEWAYS SHALL BE DETERMINED BY THE ENGR. IN THE FIELD.

PRIVATE UTILITY COMPANIES SHALL MAKE ALL NECESSARY ADJUSTMENTS TO FACILITIES OWNED BY THEM SUCH AS POWER POLES, TELEPHONE POLES, UNDERGROUND CONDUITS AND CONDUIT MANHOLES, GAS VALVES ETC.

THE TOWNSHIP OF MENASHA SHALL MAKE ALL NECESSARY ADJUSTMENTS TO FACILITIES OWNED BY THEM SUCH AS WATER VALVES, MAINS, HYDRANTS ETC.

THE Q.Y. OF "FILL" AS SHOWN ON PLANS PERTAINS TO EMBANKMENTS CONSTRUCTED FROM UNCLASSIFIED EXCAVATION.



**LEGEND**

- UNCLASSIFIED EXCAVATION
- SHRINKAGE ALLOWANCE
- CORR. GALV. SHEET METAL CULV. PIPE
- NON-REIN. CONC. SEWER PIPE
- REIN. CONC. CULV. PIPE
- CATCH BASIN
- INLET
- MANHOLE
- POWER POLE
- TELEPHONE POLE
- HYDRANT

STA. 10+00 TO STA. 47+19.3 (MAIN LINE)

UNC. EXC. 17,630 C.Y.  
 FILL 1,942 C.Y.  
 WASTE 15,105 C.Y.  
 SHG 30%

PROFILES ON GMEINER RD

UNC. EXC. 489 C.Y. FILL BY E.V.  
 WASTE 341 C.Y. SHG. 50%

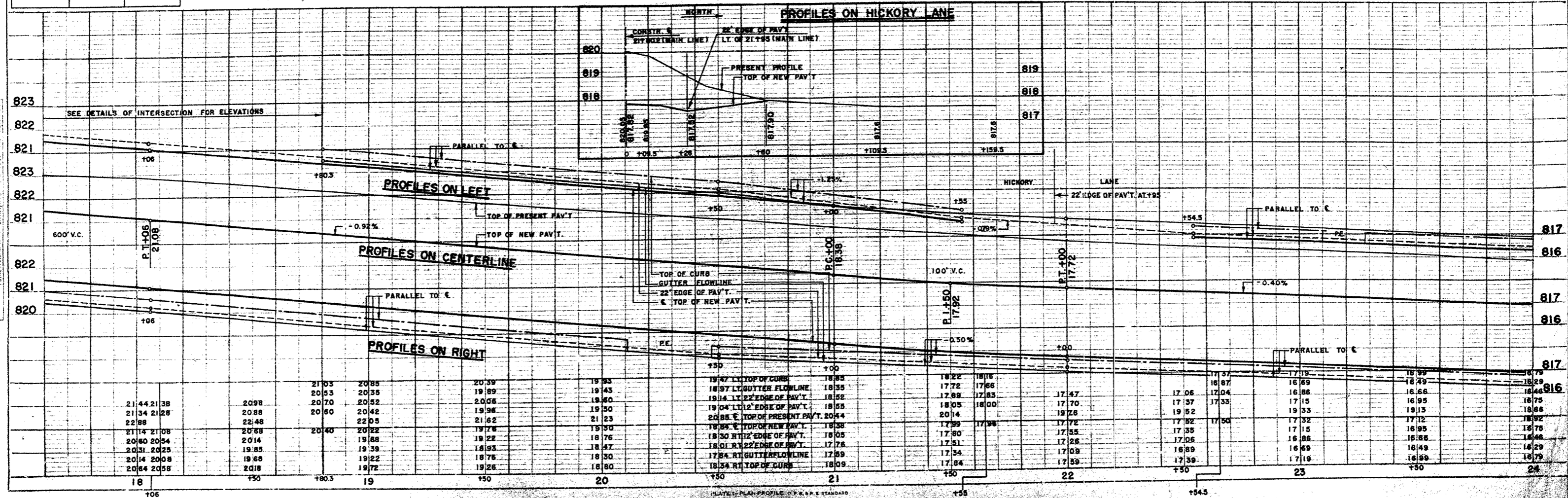
PROFILE DRAWING  
 CHECKED BY: J. J. B.  
 NO. 9588

NO.	STATION	DESCRIPTION	ELEV.
4	20+00	SPIKE IN 24" OAK 80'L	819.82
5	23+85	PNT. +, E. COR. LOWER STEP 90'L	818.98

STA. 20+00 - LT.  
 STD. 42" M.H. REQ'D.  
 F.L. = 813.78  
 BOTT. = 812.78  
 DEPTH = 4.50  
 12" X 174' R.C.C. P REQ'D.  
 I = 813.78 D = 812.20

SURVEY CURVE  
 P.I. = 18+64.09  
 Δ = 236°-48'  
 Δ = 56°-48'  
 D = 12°-15'  
 T = 253.29'  
 LC = 463.67'

STATION TO STATION	LIN. FT.	
18+00	24+00	6000



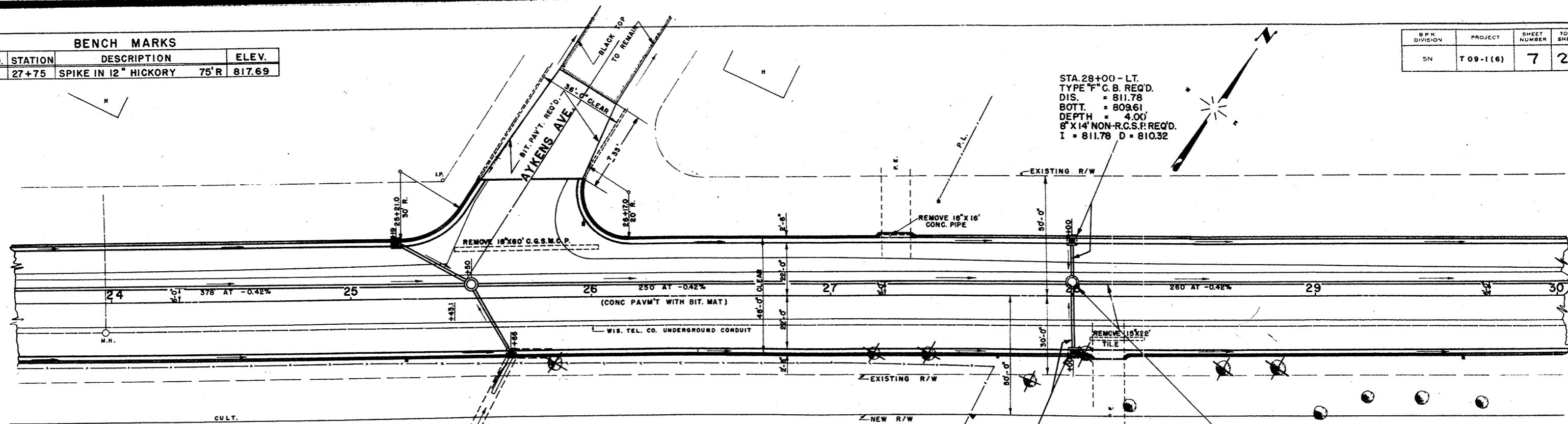
4-51  
 11-51  
 N.L.C.  
 J.J.B.  
 9586

4-51  
 11-51  
 N.L.C.  
 J.J.B.  
 9586



BENCH MARKS				
NO.	STATION	DESCRIPTION		ELEV.
6	27+75	SPIKE IN 12" HICKORY	75' R	817.69

B.P.R. DIVISION	PROJECT	SHEET NUMBER	TOTAL SHEETS
5N	T 09-1 (6)	7	27

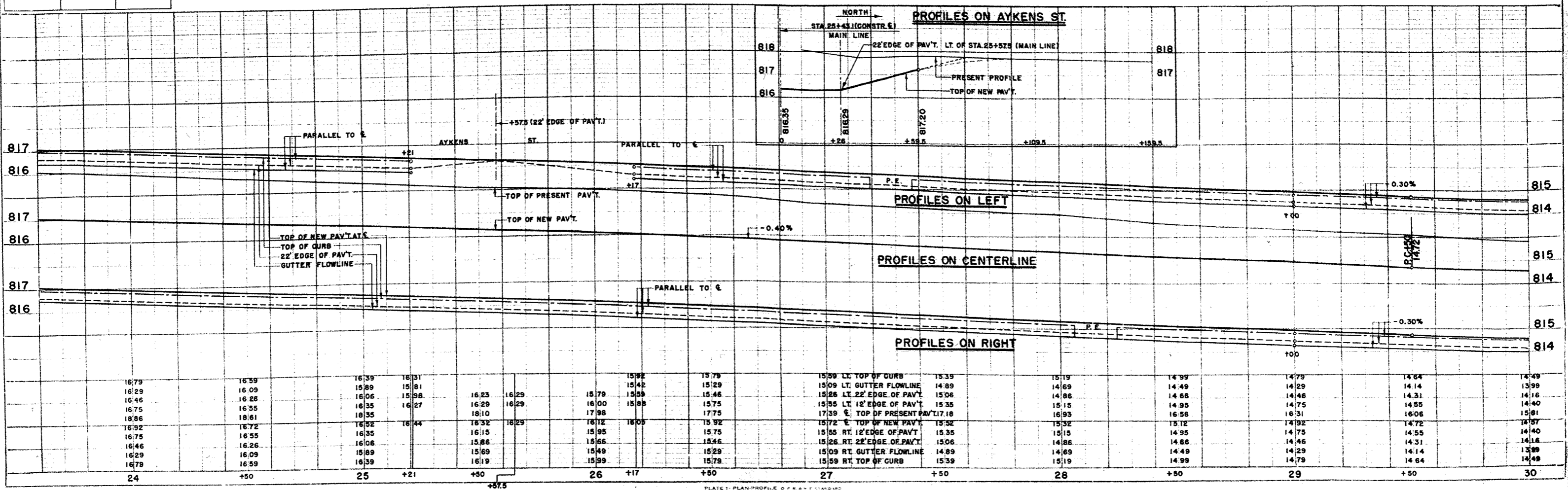


STA. 28+00 - LT.  
 TYPE "F" C.B. REQ'D.  
 DIS. = 811.78  
 BOTT. = 809.61  
 DEPTH = 4.00'  
 8" X 14" NON-R.C.S.P. REQ'D.  
 I = 811.78 D = 810.32

STA. 28+00 - RT.  
 TYPE "F" C.B. REQ'D.  
 DIS. = 811.78  
 BOTT. = 809.61  
 DEPTH = 4.00'  
 8" X 26" NON-R.C.S.P. REQ'D.  
 I = 811.78 D = 810.32

STA. 28+00 - LT.  
 STD. 42" M.H. REQ'D.  
 F.L. = 809.57  
 BOTT. = 808.57  
 DEPTH = 4.50'  
 15" X 26" R.C.S.P. REQ'D.  
 I = 809.57 D = 808.48

NET LENGTH OF CENTERLINE		
STATION TO STATION	LIN. FT.	
24+00	30+00	600.0



16.79	16.59	16.39	16.31		15.92	15.79	15.59	15.39	15.19	14.99	14.79	14.64	14.49
16.29	16.09	15.89	15.81		15.42	15.29	15.09	14.89	14.69	14.49	14.29	14.14	13.99
16.46	16.26	16.06	15.98	16.23	16.29	15.79	15.26	15.06	14.86	14.66	14.46	14.31	14.16
16.75	16.55	16.35	16.27	16.29	16.29	16.00	15.55	15.35	15.15	14.95	14.75	14.55	14.40
18.86	18.61	18.35	18.10	18.10	17.98	17.75	17.39	17.18	16.93	16.68	16.43	16.08	15.81
16.92	16.72	16.52	16.44	16.32	16.29	16.12	15.72	15.52	15.32	15.12	14.92	14.72	14.57
16.75	16.55	16.35	16.15	15.95	15.75	15.55	15.26	15.06	14.86	14.66	14.46	14.31	14.16
16.46	16.26	16.06	15.86	15.66	15.46	15.26	15.09	14.89	14.69	14.49	14.29	14.14	13.99
16.29	16.09	15.89	15.69	15.49	15.29	15.09	15.09	14.89	14.69	14.49	14.29	14.14	13.99
16.79	16.59	16.39	16.19	15.99	15.79	15.59	15.59	15.39	15.19	14.99	14.79	14.64	14.49

DATE: 4-51  
 BY: N.L.C.  
 CHECKED: J.J.B.  
 NO. 9986

DATE: 11-51  
 BY: N.L.C.  
 CHECKED: J.J.B.  
 NO. 9989



**BENCH MARKS**

NO.	STATION	DESCRIPTION	ELEV.
7	30+75	SPIKE IN 12" HICKORY	42'L 814.03
8	33+37	" " " "	20'L 816.18

STA. 30+50-LT.  
TYPE "F" C.B. REQ'D.  
DIS. = 810.93  
BOTT. = 808.76  
DEPTH = 4.00'  
8" X 17" NON-R.C.S.P. REQ'D.  
I = 810.93 D = 809.23

STA. 30+60-LT.  
ST'D. 42" M.H. REQ'D.  
F.L. = 808.48 R/W  
BOTT. = 807.48  
DEPTH = 4.75'  
15" X 42" R.C.C.P. REQ'D.  
I = 808.48 D = 807.00

STA. 35+25-LT.  
TYPE "F" C.B. REQ'D.  
DIS. = 812.68  
BOTT. = 810.51  
DEPTH = 4.00'  
8" X 14" NON-R.C.S.P. REQ'D.  
I = 812.68 D = 811.18

12" X 72" R.C.C.P. REQ'D.  
I = 812.20 D = 811.25  
SPECIAL INLET GRATE REQ'D.

STA. 30+50-RT.  
TYPE "F" C.B. REQ'D.  
DIS. = 810.68  
BOTT. = 808.51  
DEPTH = 4.25'  
8" X 26" NON-R.C.S.P. REQ'D.  
I = 810.68 D = 809.23

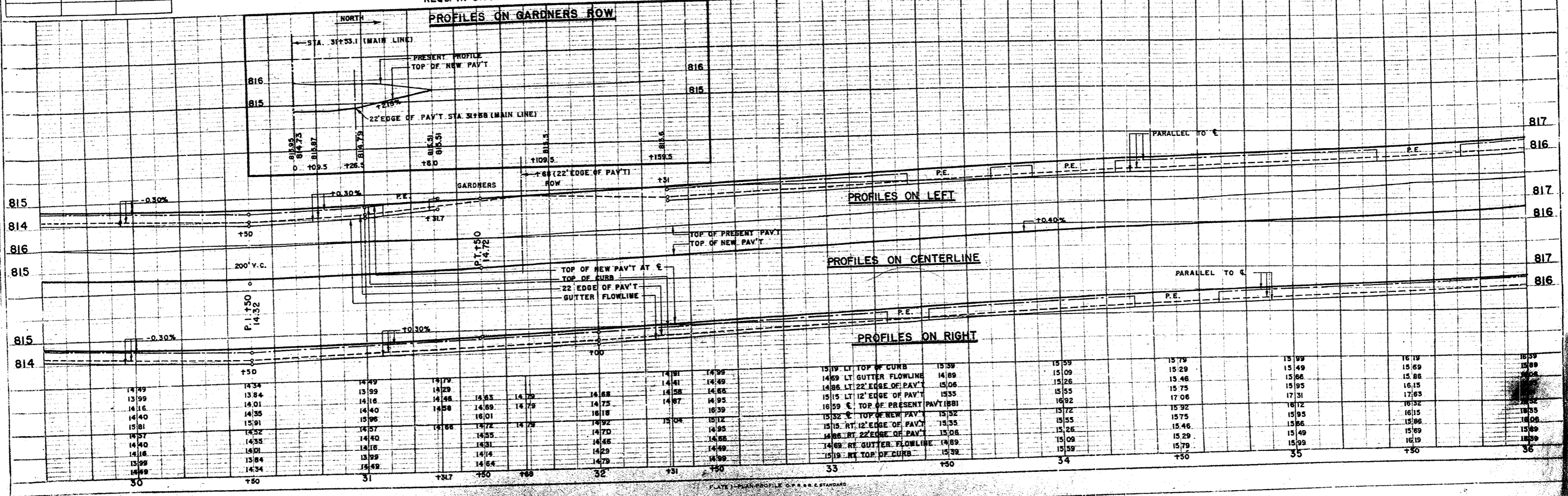
STA. 30+95 (APPROX)  
48" X 112" R.C.C.P. REQ'D.  
SKEW 35° R.H.F.  
INLET = 808.6  
DISCH. = 807.0  
10 C.Y. M.R.M. ENDWALLS REQ'D.  
30 S.Y. GROUTED RUBBLE PAVING  
REQ'D. IN DITCHES LT. & RT.

STA. 35+25-RT.  
TYPE "F" C.B. REQ'D.  
DIS. = 812.68  
BOTT. = 810.51  
DEPTH = 4.00'  
8" X 26" NON-R.C.S.P. REQ'D.  
I = 812.68 D = 811.18

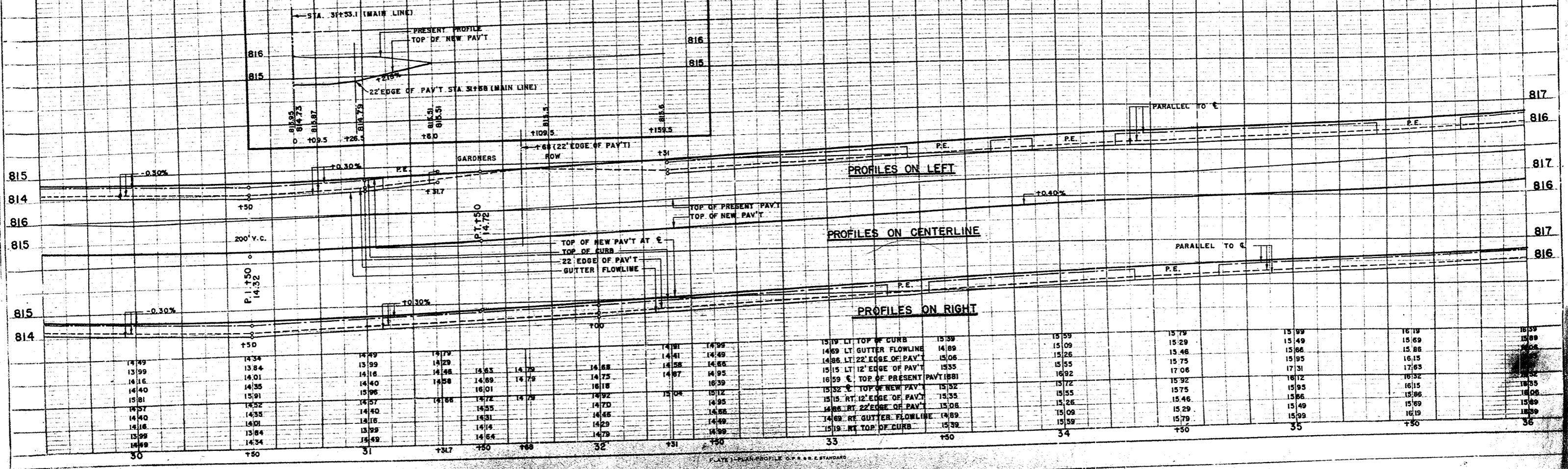
STA. 35+25-LT.  
ST'D. 42" M.H. REQ'D.  
F.L. = 810.43  
BOTT. = 809.43  
DEPTH = 4.50'  
12" X 35" R.C.C.P. REQ'D.  
I = 810.43 D = 809.07

**NET LENGTH OF CENTERLINE**

STATION TO STATION	LIN. FT.	
30+00	36+00	600.0



**PROFILES ON GARDNERS ROW**



STATION	15' 19" LT. TOP OF CURB	14' 89" LT. GUTTER FLOWLINE	14' 86" LT. 22" EDGE OF PAV'T	15' 15" LT. 12" EDGE OF PAV'T	16' 59" E. TOP OF PRESENT PAV'T (88)	15' 32" E. TOP OF NEW PAV'T	15' 15" RT. 12" EDGE OF PAV'T	14' 86" RT. 22" EDGE OF PAV'T	14' 69" RT. GUTTER FLOWLINE	15' 19" RT. TOP OF CURB
30+00	15.59	14.89	15.06	15.35	16.92	15.32	15.35	15.08	14.89	15.39
30+10	15.59	14.89	15.06	15.35	16.92	15.32	15.35	15.08	14.89	15.39
30+20	15.59	14.89	15.06	15.35	16.92	15.32	15.35	15.08	14.89	15.39
30+30	15.59	14.89	15.06	15.35	16.92	15.32	15.35	15.08	14.89	15.39
30+40	15.59	14.89	15.06	15.35	16.92	15.32	15.35	15.08	14.89	15.39
30+50	15.59	14.89	15.06	15.35	16.92	15.32	15.35	15.08	14.89	15.39
30+60	15.59	14.89	15.06	15.35	16.92	15.32	15.35	15.08	14.89	15.39
30+70	15.59	14.89	15.06	15.35	16.92	15.32	15.35	15.08	14.89	15.39
30+80	15.59	14.89	15.06	15.35	16.92	15.32	15.35	15.08	14.89	15.39
30+90	15.59	14.89	15.06	15.35	16.92	15.32	15.35	15.08	14.89	15.39
31+00	15.59	14.89	15.06	15.35	16.92	15.32	15.35	15.08	14.89	15.39
31+10	15.59	14.89	15.06	15.35	16.92	15.32	15.35	15.08	14.89	15.39
31+20	15.59	14.89	15.06	15.35	16.92	15.32	15.35	15.08	14.89	15.39
31+30	15.59	14.89	15.06	15.35	16.92	15.32	15.35	15.08	14.89	15.39
31+40	15.59	14.89	15.06	15.35	16.92	15.32	15.35	15.08	14.89	15.39
31+50	15.59	14.89	15.06	15.35	16.92	15.32	15.35	15.08	14.89	15.39
31+60	15.59	14.89	15.06	15.35	16.92	15.32	15.35	15.08	14.89	15.39
31+70	15.59	14.89	15.06	15.35	16.92	15.32	15.35	15.08	14.89	15.39
31+80	15.59	14.89	15.06	15.35	16.92	15.32	15.35	15.08	14.89	15.39
31+90	15.59	14.89	15.06	15.35	16.92	15.32	15.35	15.08	14.89	15.39
32+00	15.59	14.89	15.06	15.35	16.92	15.32	15.35	15.08	14.89	15.39
32+10	15.59	14.89	15.06	15.35	16.92	15.32	15.35	15.08	14.89	15.39
32+20	15.59	14.89	15.06	15.35	16.92	15.32	15.35	15.08	14.89	15.39
32+30	15.59	14.89	15.06	15.35	16.92	15.32	15.35	15.08	14.89	15.39
32+40	15.59	14.89	15.06	15.35	16.92	15.32	15.35	15.08	14.89	15.39
32+50	15.59	14.89	15.06	15.35	16.92	15.32	15.35	15.08	14.89	15.39
32+60	15.59	14.89	15.06	15.35	16.92	15.32	15.35	15.08	14.89	15.39
32+70	15.59	14.89	15.06	15.35	16.92	15.32	15.35	15.08	14.89	15.39
32+80	15.59	14.89	15.06	15.35	16.92	15.32	15.35	15.08	14.89	15.39
32+90	15.59	14.89	15.06	15.35	16.92	15.32	15.35	15.08	14.89	15.39
33+00	15.59	14.89	15.06	15.35	16.92	15.32	15.35	15.08	14.89	15.39
33+10	15.59	14.89	15.06	15.35	16.92	15.32	15.35	15.08	14.89	15.39
33+20	15.59	14.89	15.06	15.35	16.92	15.32	15.35	15.08	14.89	15.39
33+30	15.59	14.89	15.06	15.35	16.92	15.32	15.35	15.08	14.89	15.39
33+40	15.59	14.89	15.06	15.35	16.92	15.32	15.35	15.08	14.89	15.39
33+50	15.59	14.89	15.06	15.35	16.92	15.32	15.35	15.08	14.89	15.39
33+60	15.59	14.89	15.06	15.35	16.92	15.32	15.35	15.08	14.89	15.39
33+70	15.59	14.89	15.06	15.35	16.92	15.32	15.35	15.08	14.89	15.39
33+80	15.59	14.89	15.06	15.35	16.92	15.32	15.35	15.08	14.89	15.39
33+90	15.59	14.89	15.06	15.35	16.92	15.32	15.35	15.08	14.89	15.39
34+00	15.59	14.89	15.06	15.35	16.92	15.32	15.35	15.08	14.89	15.39
34+10	15.59	14.89	15.06	15.35	16.92	15.32	15.35	15.08	14.89	15.39
34+20	15.59	14.89	15.06	15.35	16.92	15.32	15.35	15.08	14.89	15.39
34+30	15.59	14.89	15.06	15.35	16.92	15.32	15.35	15.08	14.89	15.39
34+40	15.59	14.89	15.06	15.35	16.92	15.32	15.35	15.08	14.89	15.39
34+50	15.59	14.89	15.06	15.35	16.92	15.32	15.35	15.08	14.89	15.39
34+60	15.59	14.89	15.06	15.35	16.92	15.32	15.35	15.08	14.89	15.39
34+70	15.59	14.89	15.06	15.35	16.92	15.32	15.35	15.08	14.89	15.39
34+80	15.59	14.89	15.06	15.35	16.92	15.32	15.35	15.08	14.89	15.39
34+90	15.59	14.89	15.06	15.35	16.92	15.32	15.35	15.08	14.89	15.39
35+00	15.59	14.89	15.06	15.35	16.92	15.32	15.35	15.08	14.89	15.39
35+10	15.59	14.89	15.06	15.35	16.92	15.32	15.35	15.08	14.89	15.39
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35+30	15.59	14.89	15.06	15.35	16.92	15.32	15.35	15.08	14.89	15.39
35+40	15.59	14.89	15.06	15.35	16.92	15.32	15.35	15.08	14.89	15.39
35+50	15.59	14.89	15.06	15.35	16.92	15.32	15.35	15.08	14.89	15.39
35+60	15.59	14.89	15.06	15.35	16.92	15.32	15.35	15.08	14.89	15.39
35+70	15.59	14.89	15.06	15.35	16.92	15.32	15.35	15.08	14.89	15.39
35+80	15.59	14.89	15.06	15.35	16.92	15.32	15.35	15.08	14.89	15.39
35+90	15.59	14.89	15.06	15.35	16.92	15.32	15.35	15.08	14.89	15.39
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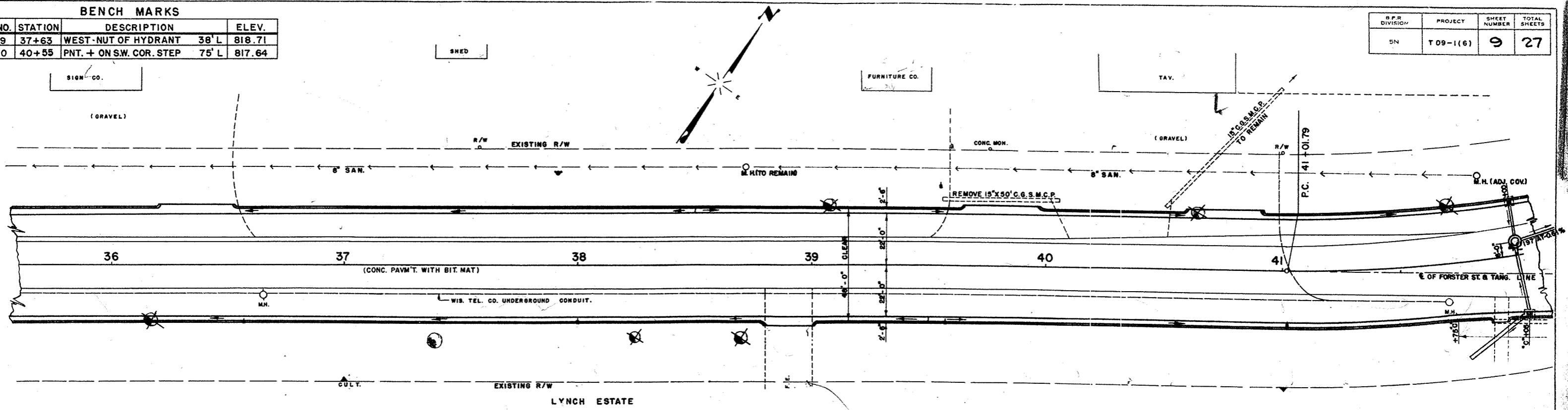
**BENCH MARKS**

NO.	STATION	DESCRIPTION	ELEV.
9	37+63	WEST-NUT OF HYDRANT 38' L	818.71
10	40+55	PNT. + ON S.W. COR. STEP 75' L	817.64

D.P.R. DIVISION	PROJECT	SHEET NUMBER	TOTAL SHEETS
5N	T 09-1(6)	9	27

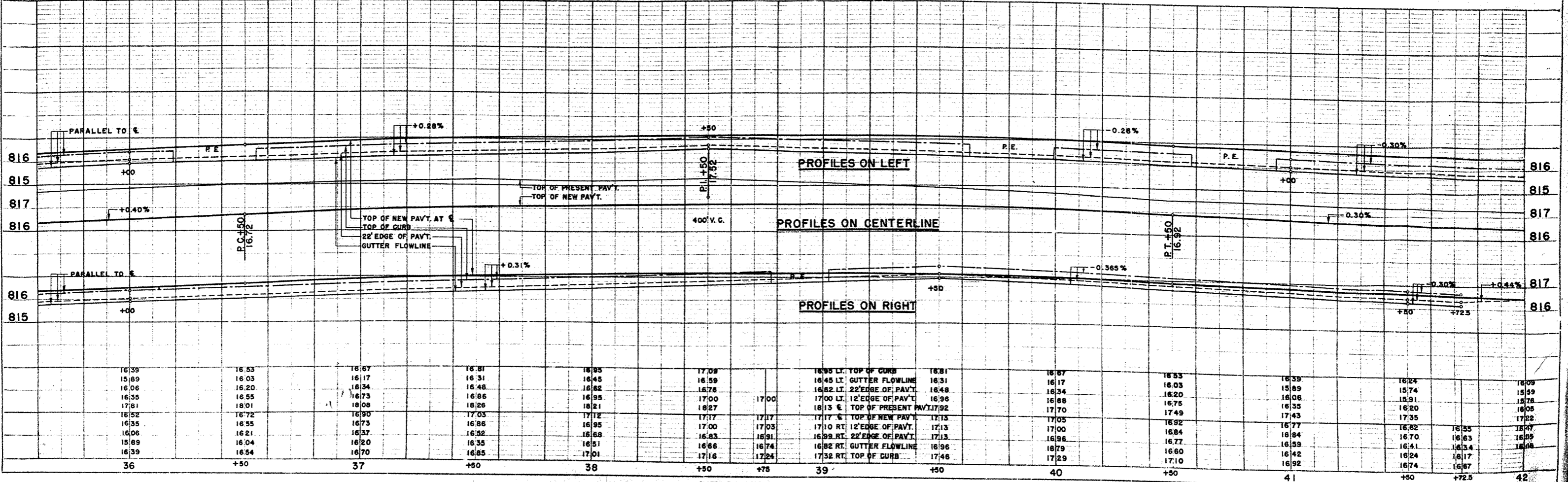
PLANT  
 NO. 9586  
 CHECKED BY  
 DATE

PROFILE  
 NO. 9588  
 CHECKED BY  
 DATE



**NET LENGTH OF CENTERLINE**

STATION TO STATION	LIN. FT.	
36+00	42+00	600.0



16.39	16.53	16.67	16.81	16.95	17.09	16.81	16.67	16.53	16.39					
15.89	16.03	16.17	16.31	16.45	16.59	16.31	16.17	16.03	15.89					
16.06	16.20	16.34	16.48	16.62	16.76	16.48	16.34	16.20	16.06					
16.35	16.55	16.75	16.86	16.95	17.00	16.96	16.88	16.75	16.68					
17.81	18.01	18.08	18.28	18.21	18.27	18.13	17.70	16.35	16.06					
16.52	16.72	16.90	17.03	17.12	17.17	17.13	17.05	16.82	16.77					
16.35	16.55	16.73	16.86	16.95	17.00	17.13	17.00	16.82	16.77					
16.06	16.21	16.37	16.52	16.63	16.63	16.84	16.96	16.84	16.84					
15.89	16.04	16.20	16.35	16.51	16.66	16.82	16.96	16.77	16.59					
16.39	16.54	16.70	16.85	17.01	17.16	17.32	17.48	16.60	16.42					
								16.60	16.42					
								17.10	16.87					
								16.74	16.87					
36	+50	37	+50	38	+50	+75	39	+50	40	+50	41	+50	+72.5	42





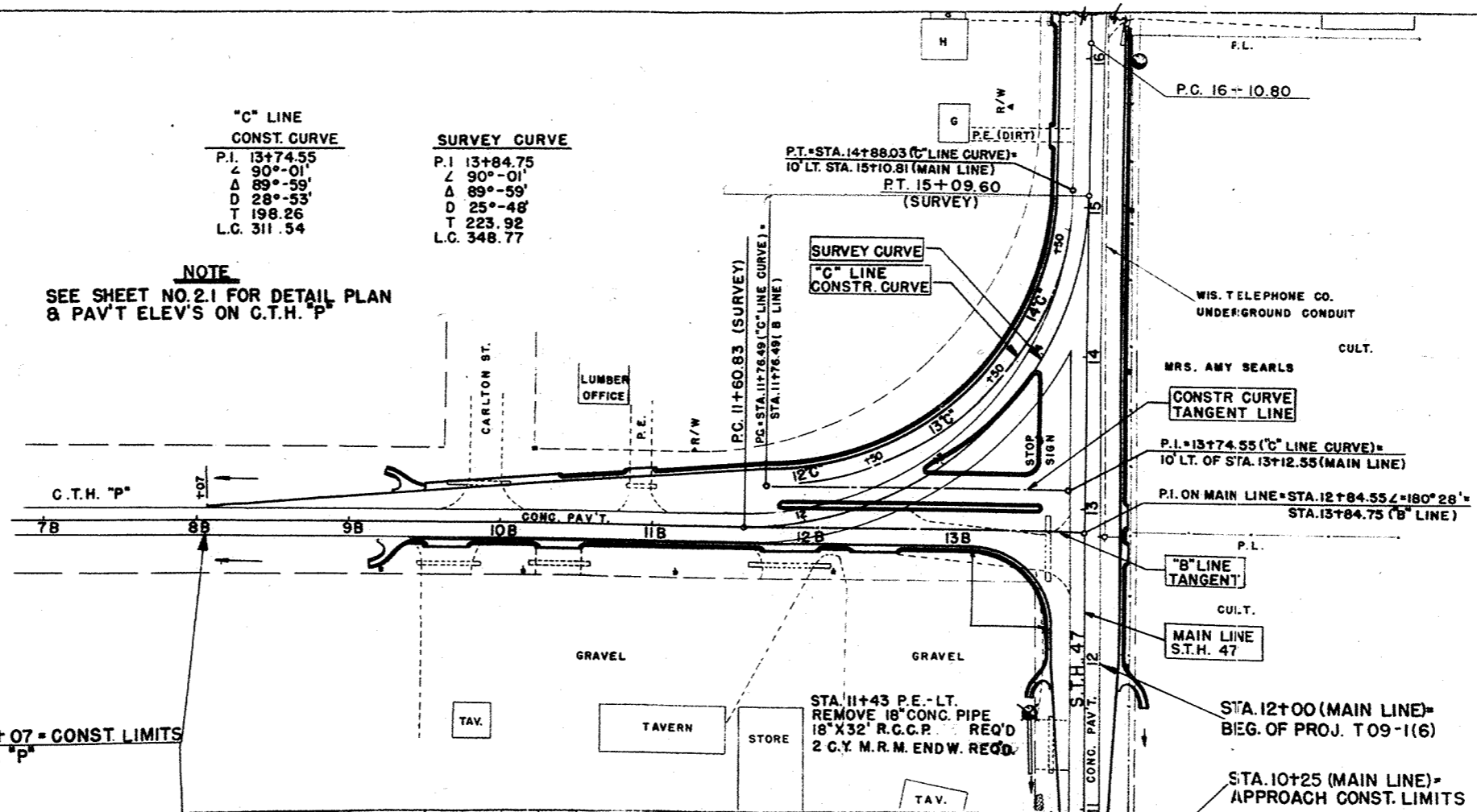
BENCH MARKS			
NO.	STATION	DESCRIPTION	ELEV.
1	9+25 "B"	SPIKE IN POWER POLE 33'R	818.79
2	13+00	PT. X ON CONC. TREE WELL 162'R	822.37

B.P.R. DIVISION	PROJECT	SHEET NUMBER	TOTAL SHEETS
5N	T 09-1 (6)	11	27

**"C" LINE  
CONST. CURVE**  
 P.I. 13+74.55  
 L 90°-01'  
 Δ 89°-59'  
 D 28°-53'  
 T 198.26  
 L.C. 311.54

**SURVEY CURVE**  
 P.I. 13+84.75  
 L 90°-01'  
 Δ 89°-59'  
 D 25°-48'  
 T 223.92  
 L.C. 348.77

**NOTE**  
 SEE SHEET NO. 2.1 FOR DETAIL PLAN  
 & PAV'T ELEV'S ON C.T.H. "P"

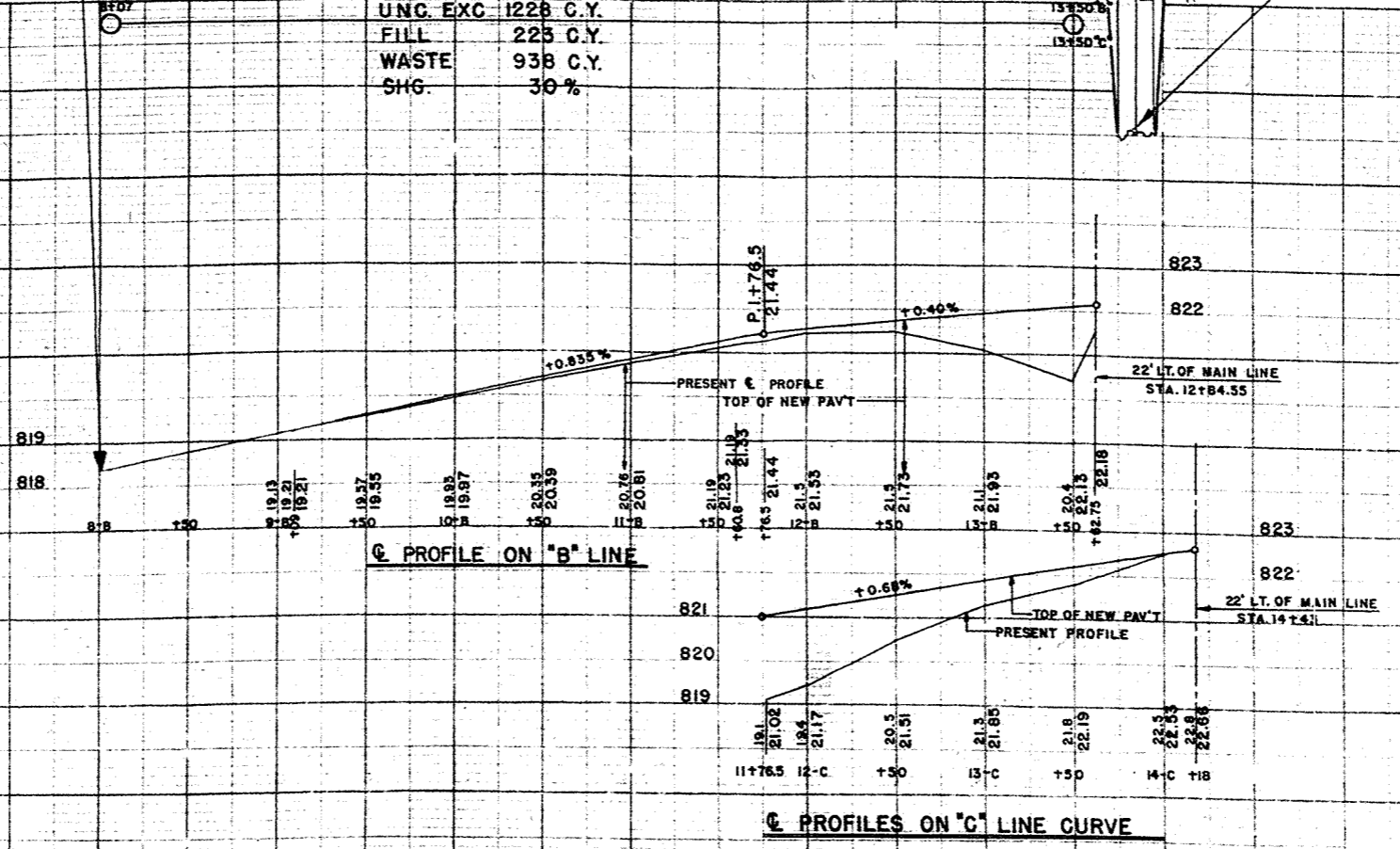


STA. 8B+07 = CONST LIMITS  
ON C.T.H. "P"

UNC. EXC.	1228 C.Y.
FILL	225 C.Y.
WASTE	938 C.Y.
SHG.	36%

DATE 4-51  
1-52  
BY N.L.C.  
D.J.B.  
ILLINOIS SURVEYING & ENGINEERING CO.  
NO. 9586

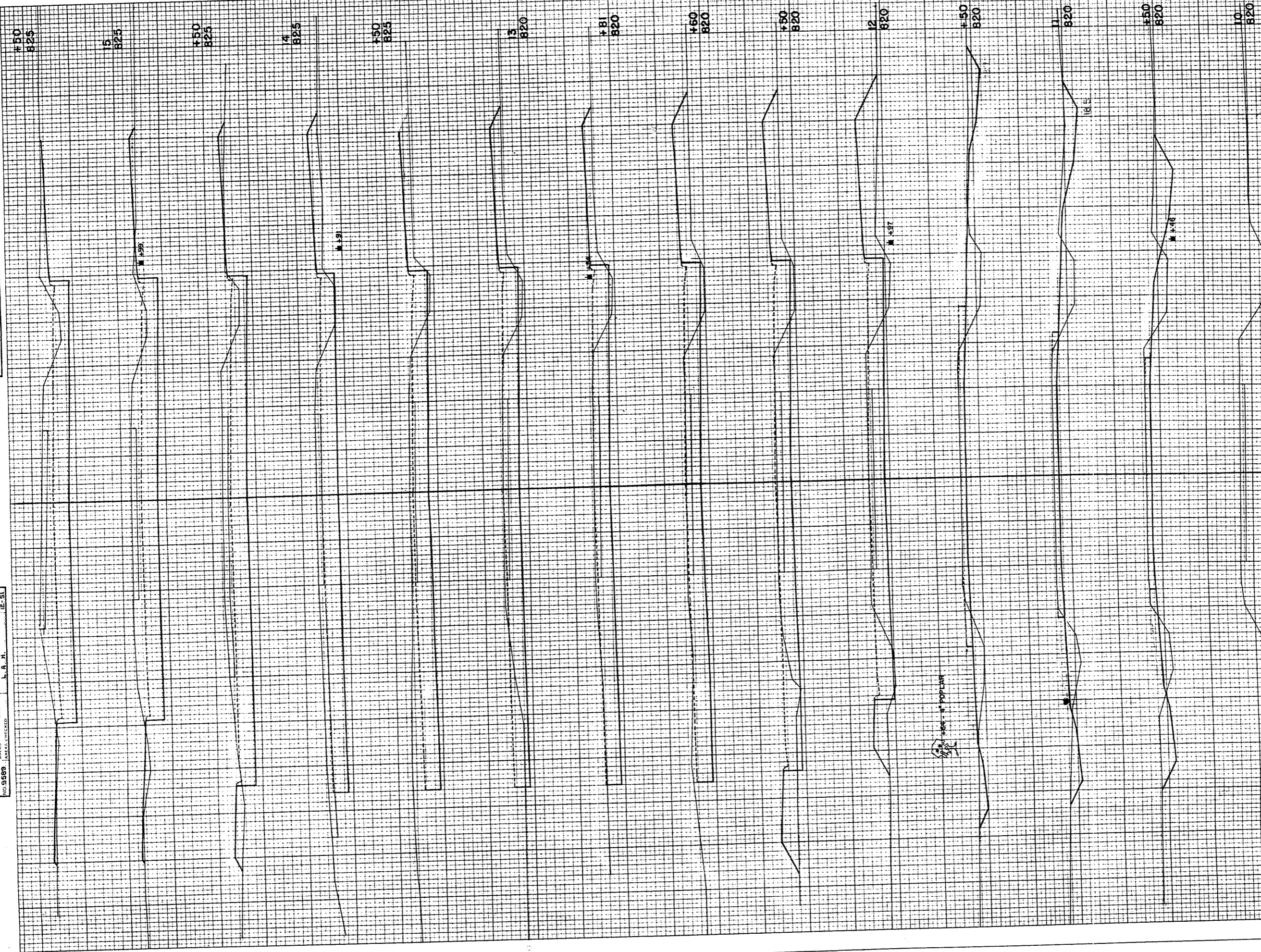
DATE 4-51  
1-52  
BY N.L.C.  
D.J.B.  
PROFILE SURVEYED  
PROFILES  
VERTICAL  
CURVES  
STRUCTURE, MATERIALS, ETC.  
NO. 9586





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

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



P.R.A. DISTRICT OFFICE	PROJECT	SHEET NUMBER	TOTAL SHEETS
WIS. SN	T 09-1(6)	20	27

STATION	DISTANCE	YARDAGE	
		UNC	FILL
10		26	17
+50		35	37
11		24	44
+50		63	93
12		98	111
+50		24	15
+60		61	19
+81		50	15
13		159	37
+50		183	31
14		191	26
+50		219	19
15		237	9
+50			
SHEET TOTAL		1370	473



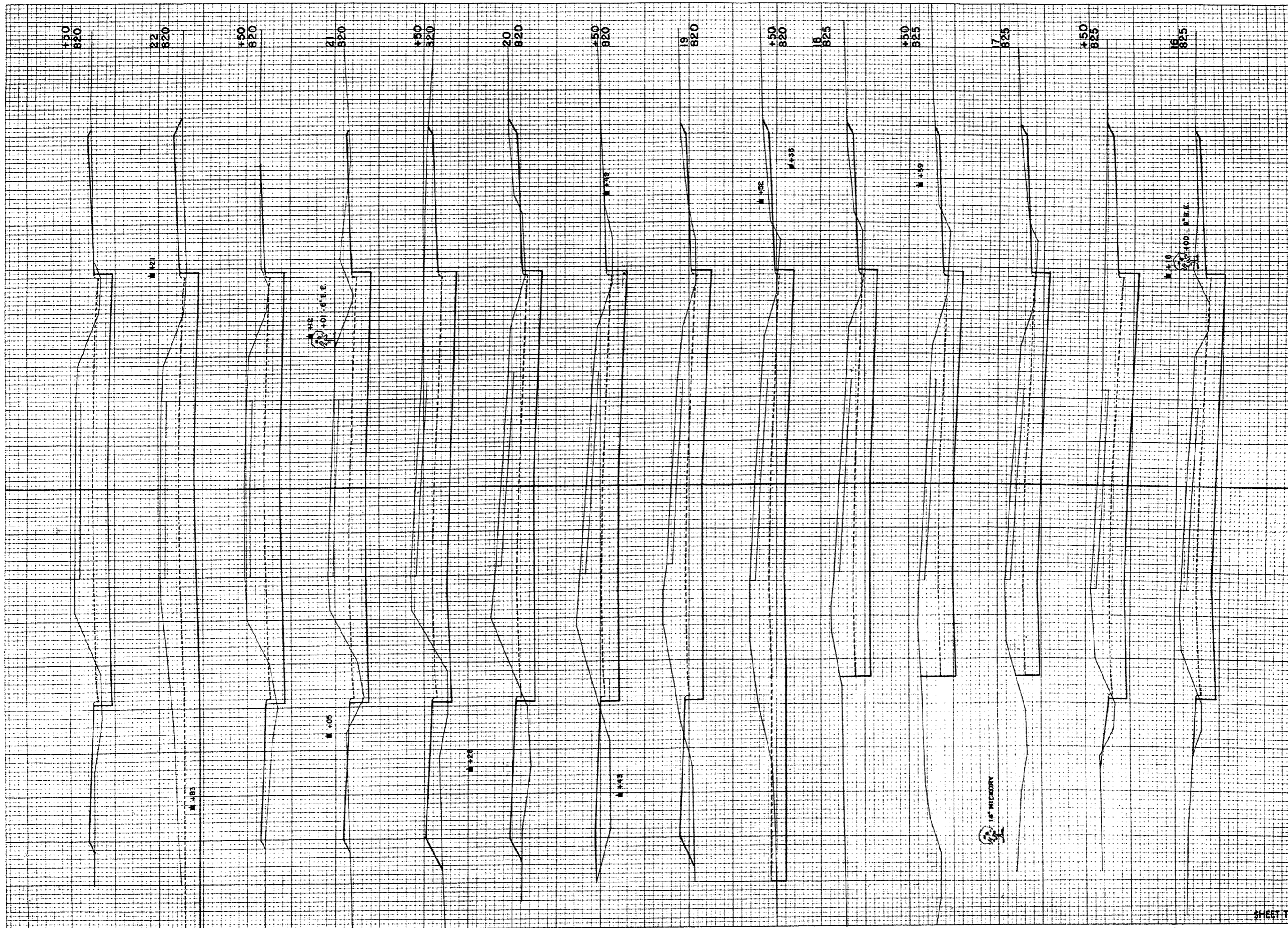
FINAL SURVEY PLANNED  
 NOTE BOOK NUMBER  
 NO. 5889 AREA CHECKED

DATE  
 A-51  
 A-51  
 12-31  
 12-31  
 12-31

BY  
 N. L. G.  
 H. C. H.  
 E. W. F.  
 L. A. H.

ORIGINAL SURVEY PLANNED  
 NOTE BOOK NUMBER  
 NO. 5889 AREA CHECKED

T. L.



P. R. A. DISTRICT OFFICE		PROJECT	SHEET NUMBER	TOTAL SHEETS
WIS. SN		T 09-1(6)	21	27
STATION	DISTANCE	YARDAGE		
		EXCAVATION	FILL	
15	150			
16	150	263	7	
17	150	304	7	
18	150	291	7	
19	150	257	7	
20	150	272	7	
21	150	324	6	
22	150	335	22	
23	150	298	43	
24	150	300	52	
25	150	309	54	
26	150	300	35	
27	150	289	20	
28	150	352	26	
29	150	337	28	
SHEET TOTAL		4231	321	

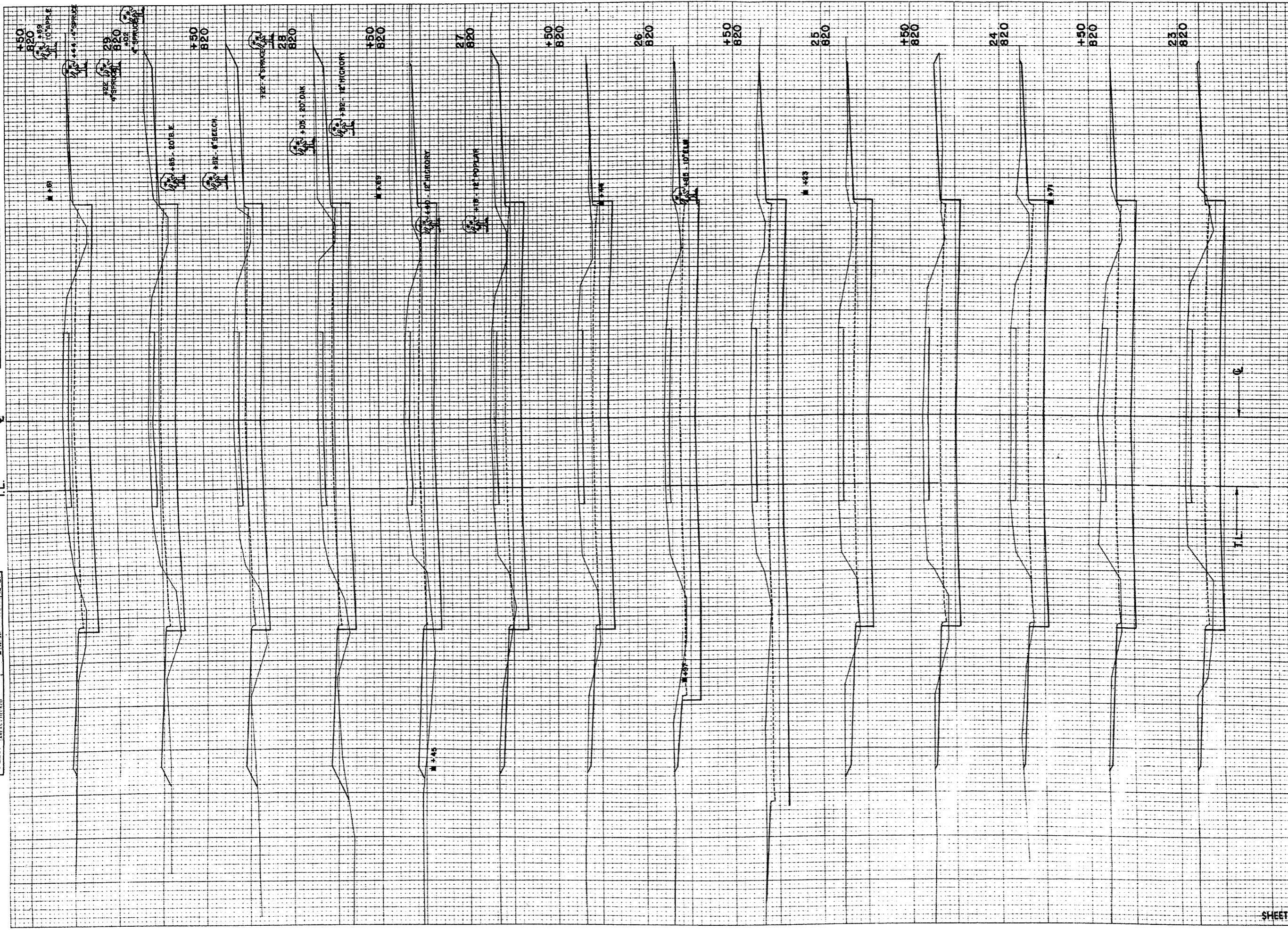


FINAL SURVEY SURVEYED PLOTTED NOTE BOOK NO. AREAS CHECKED

ORIGINAL SURVEY SURVEYED PLOTTED NOTE BOOK NO. 9589

DATE BY

DATE BY



P.R.A. DISTRICT OFFICE	PROJECT	SHEET NUMBER	TOTAL SHEETS
WIS. 5N	T 09-1(G)	22	27

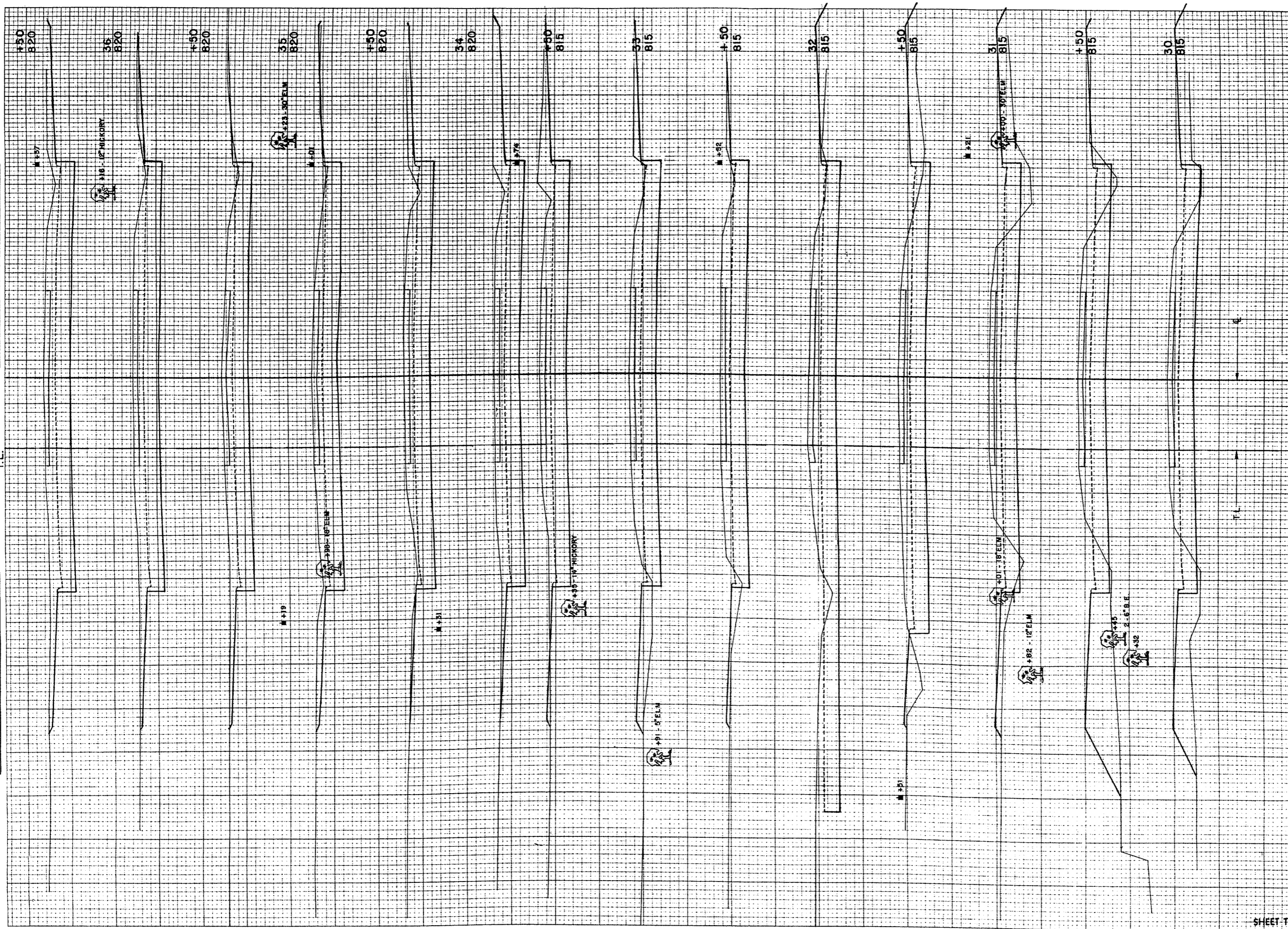
STATION	DISTANCE	YARDAGE	
		EXCAVATION	FILL
23	150	263	20
23	150	269	6
24	150	280	2
24	150	281	13
25	150	276	11
25	150	331	2
26	150	344	0
26	150	291	2
27	150	274	2
27	150	265	19
28	150	265	33
28	150	265	30
29	150	239	30
29	150	215	22

SHEET TOTAL 3858 192



FINAL SURVEY SURVEYED PLOTTED  
 NOTE BOOK TEMPLATE NO. 9583  
 AREAS CHECKED

DATE: 4-51, 5-51, 12-51, 12-51  
 BY: N.L.C., H.H.S., E.W.P., E.A.H., J.O.  
 ORIGINAL SURVEY SURVEYED PLOTTED  
 NOTE BOOK TEMPLATE NO. 9583  
 AREAS CHECKED



P.R.A. DISTRICT OFFICE	PROJECT	SHEET NUMBER	TOTAL SHEETS
WIS. SN	T09-1(6)	23	27

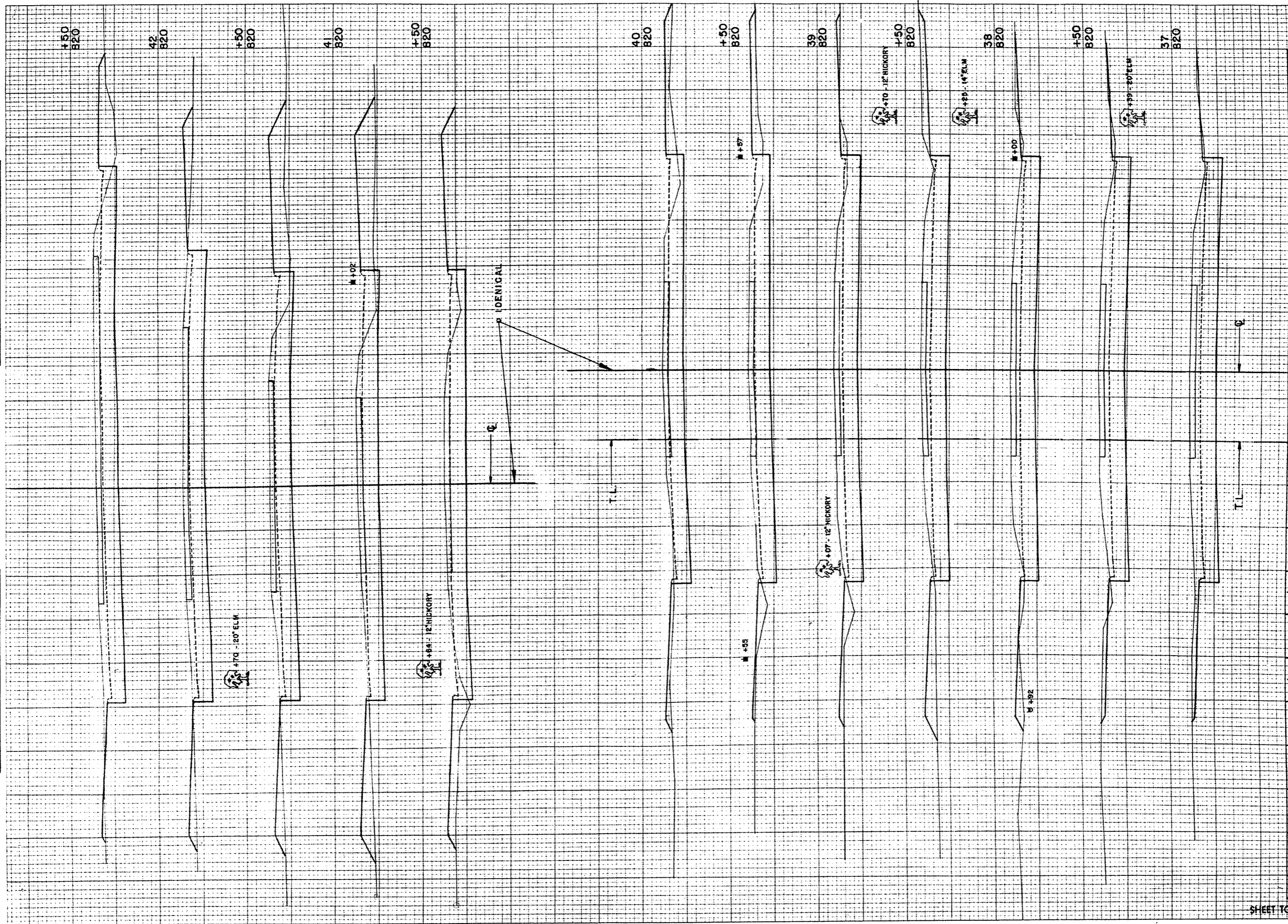
STATION	DISTANCE	YARDAGE	
		EXCAVATION	FILL
		UNC.	
29	150		
30		187	69
30	150	180	126
31		178	104
31	150	206	72
32		205	44
32	150	278	20
33		231	26
33	150	252	20
34		276	4
34	150	261	0
35		241	2
35	150	241	4
36		252	2
36	150	278	0
SHEET TOTAL		3346	493



FINAL SURVEY  
 DATE: \_\_\_\_\_  
 BY: \_\_\_\_\_  
 TITLE: \_\_\_\_\_  
 NO. \_\_\_\_\_

ORIGINAL SURVEY  
 DATE: \_\_\_\_\_  
 BY: \_\_\_\_\_  
 TITLE: \_\_\_\_\_  
 NO. \_\_\_\_\_

P.R.A. DISTRICT OFFICE	PROJECT	SHEET NUMBER	TOTAL SHEETS
WIS. SN	T 09-1(6)	24	27

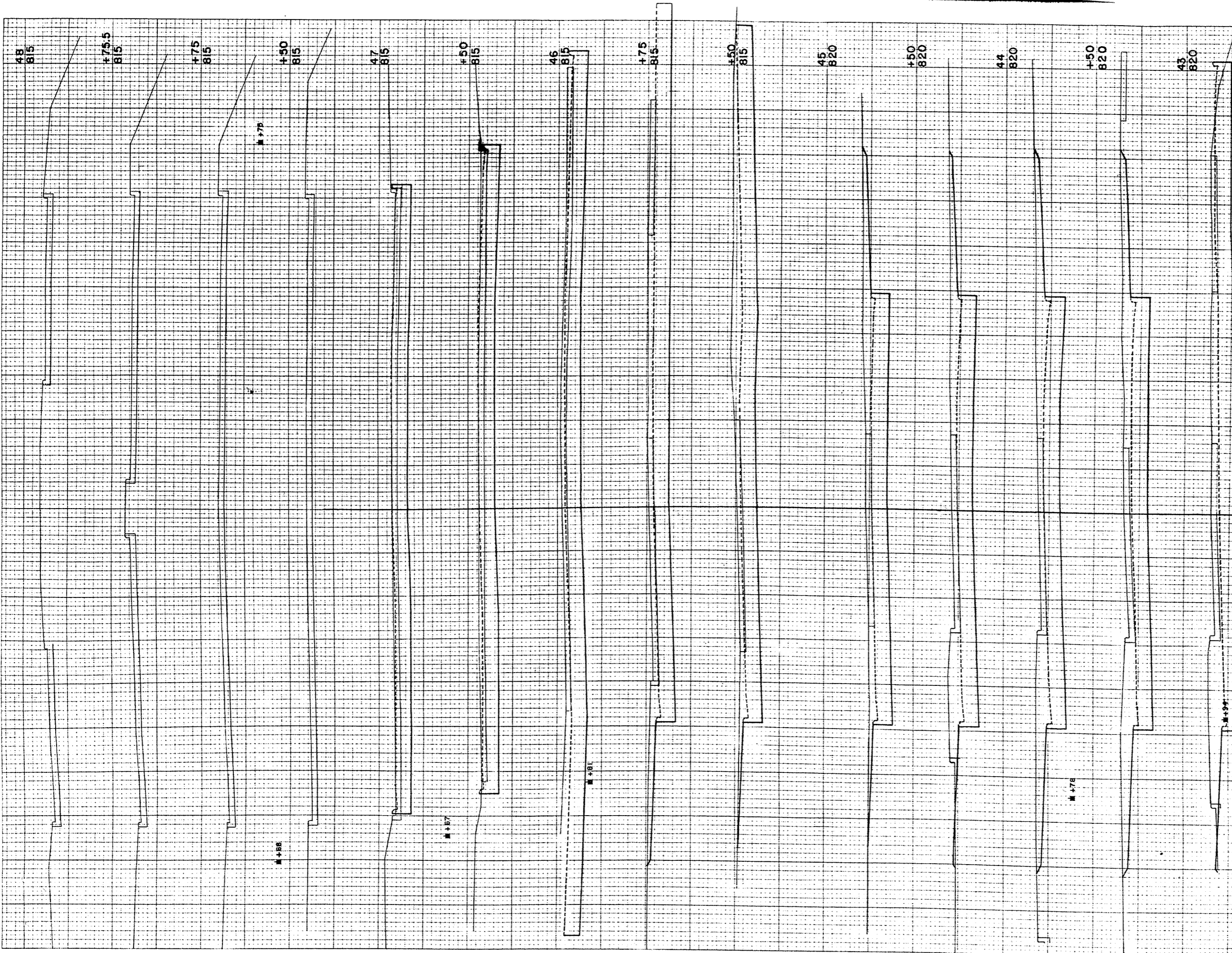


STATION	DISTANCE	YARDAGE	
		EXCAVATION	FILL
		UNC.	
36	150	267	0
37	150	237	2
38	150	224	13
39	150	224	26
39	150	217	28
39	150	194	28
40	150	176	35
41	150	159	52
41	150	157	83
42	150	172	87
42	150	189	57
42	150	228	33
SHEET TOTAL		2444	444



FINAL SURVEY  
 DATE: 5-51  
 BY: N.H.S.  
 CHECKED: R.W.F.  
 NO. 9509

ORIGINAL SURVEY  
 DATE: 5-51  
 BY: N.H.S.  
 CHECKED: R.W.F.  
 NO. 9509



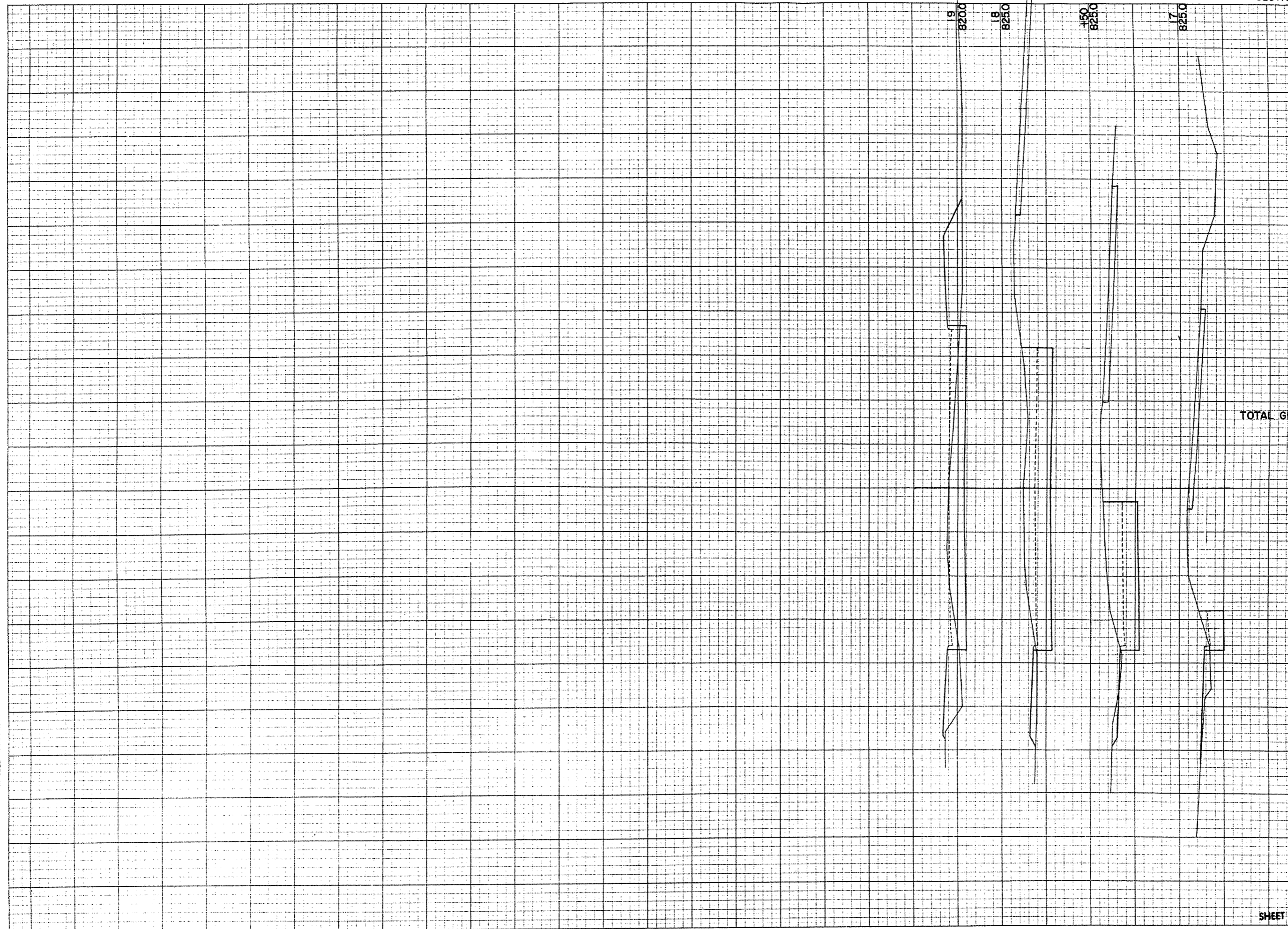
P.R.A. DISTRICT OFFICE	PROJECT	SHEET NUMBER	TOTAL SHEETS
WIS. SN	T 09-166	25	27

STATION	DISTANCE	YARDAGE	
		EXCAVATION	FILL
		UNC.	
42	150		
		326	17
43		339	2
+50			
		272	0
44		256	0
+50			
		237	0
45		278	0
+50			
		135	0
+75		107	0
46		203	0
+50			
		169	0
47		59	0
+193			
SUMMARY			
TOTAL MAIN LINE		17,630	1,942
TOTAL C.T.H. "P"		1,228	223
TOTAL OMEINER RD.		459	91
UNDISTRIBUTED		183	
GRAND TOTAL		19,500	2,256
SHEET TOTAL			
		2381	19



SECTIONS FOR GMEINER RD.

P.R.A. DISTRICT OFFICE	PROJECT	SHEET NUMBER	TOTAL SHEETS
WIS. 5N	T 09 - 1(6)	26	27



STATION	DISTANCE	YARDAGE	
		EXCAVATION	FILL
		UNC.	
16	+50		
		9	6
17		63	7
	+50		
		143	6
18		244	72
	+87		
TOTAL GMEINER RD.		459	91
SHEET TOTAL		459	91

FINAL SURVEY SHEET  
 WITH DATA SHEET  
 NO. 9589

DATE  
 4-21  
 12-21  
 12-21  
 12-21

BY  
 N.C.  
 R.W.  
 E.W.  
 L.A.W.

ORIGINAL SURVEY SHEET  
 WITH DATA SHEET  
 NO. 9589



P.A. DISTRICT OFFICE	PROJECT	SHEET NUMBER	TOTAL SHEETS
WIS. SN	T 09-1(6)	27	27

DATE  
BY  
FINAL SURVEY PLOTTED  
NOT FOR CONSTRUCTION  
AREAS CHECKED

DATE  
BY  
N.C.P.  
R.W.P.  
L.A.N.

ORIGINAL SURVEY  
NOT FOR CONSTRUCTION  
NO. 9589



STATION	DISTANCE	YARDAGE	
		EXCAVATION	
		UNC	FILL
8+07			
9		26	11
150		57	30
10		120	39
150		120	30
11		94	33
1608.5		128	35
12		96	9
150		96	2
13		56	4
150		50	4
12			
150		113	4
13		115	13
150		157	9
<b>TOTAL - C. T. H. "P"</b>		<b>1228</b>	<b>223</b>
<b>SHEET TOTAL</b>		<b>1228</b>	<b>223</b>