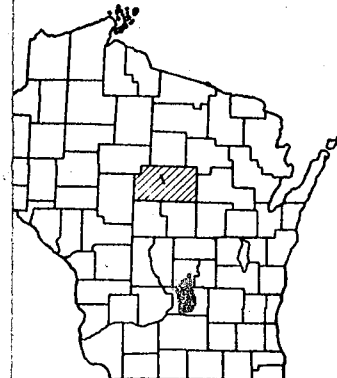


INDEX OF SHEETS

- ET NO. 1 TITLE
- ET NO. 2-2.1 TYPICAL CROSS SECTIONS
- ET NO. 3 ESTIMATE OF QUANTITIES
- ET NO. 3A MISCELLANEOUS QUANTITIES
- ET NO. - RIGHT OF WAY PLAT
- ET NO. 4-12 PLAN AND PROFILE STA. 4+30 TO STA. 232 +00
- ET NO. 13-21 STANDARD DETAILS
- ET NO. - DRAINAGE STRUCTURES
- ET NO. 22-26 CROSS SECTIONS



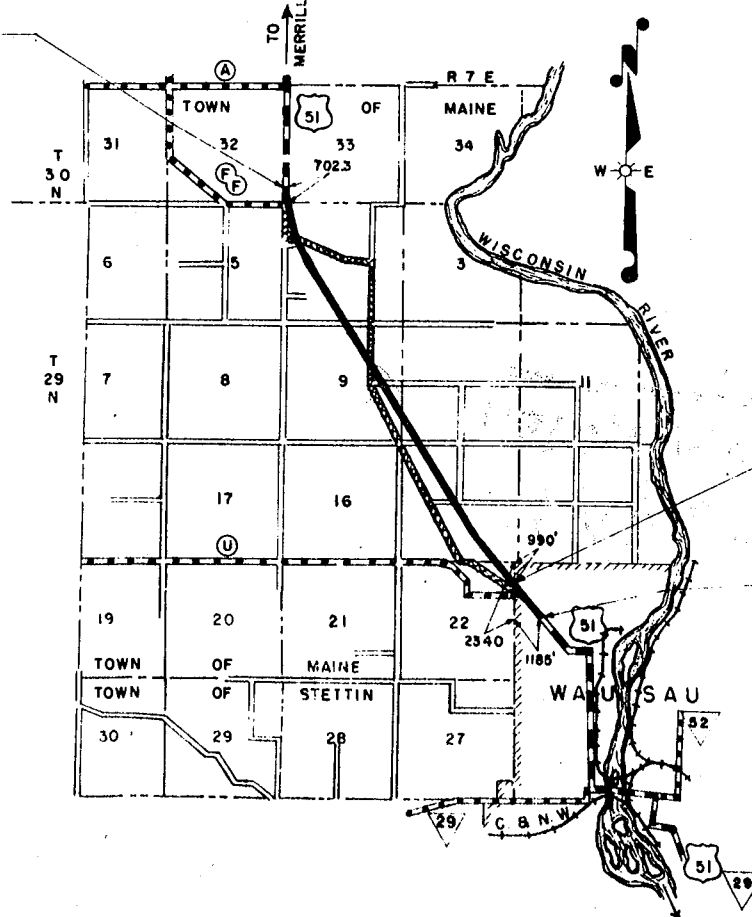
STATE OF WISCONSIN
STATE HIGHWAY COMMISSION OF WISCONSIN

COUNTY AND HIGHWAY	ROUTE AND SECTION	CLASS AND AGREEMENT		FEDERAL DIVISION OFFICE	SHEET NUMBER	TOTAL SHEETS
		STATE	FEDERAL			
37.1	5.3		11.19	WIS.	1	26
37.1	6801.0		12.8	5N		

PLAN AND PROFILE OF PROPOSED
WAUSAU - MERRILL
MARATHON COUNTY
PROJECT F 6801 (8)
&
PROJECT F 05-3 (19)

PLAN 1 IN. = 100 FT. & 50 FT.
PROFILE HOR. 1 IN. = 100 FT. & 50 FT. VERT. 1 IN. = 10 FT. & 5 FT.
CROSS SECTIONS HOR. 1 IN. = 5 FT. VERT. 1 IN. = 5 FT.

END OF PROJECT F 05-3 (19)
STA. 232+00 = STA. 58+87 F.A.R. 449C
STA. 232+00 END OF PROJ. F05-3(17)



END OF PROJECT F 6801 (8) =
BEGINNING OF PROJECT F 05-3 (19)
STA. 22+40 = STA. 22+40 END OF PROJ. 6801(7)
= STA. 22+40 BEGINNING OF PROJ. F05-3(17)

BEGINNING OF PROJECT F 6801 (8)
STA. 4+30 = STA. 32+22.2 PROJ. U 05-3 (23)
= STA. 4+30 BEGINNING OF PROJ. F6801(7)

CONVENTIONAL SIGNS

<ul style="list-style-type: none"> LINE ITY LINE NSHIP OR RANGE LINE ION LINE RIGHT OF WAY LINE ENT RIGHT OF WAY LINE FENCE { WOVEN, BARBED } LINE ORATE OR CITY LIMITS PERTY LINE ELED WAY OR P.E. ROADS OR SURVEY LINE 	<ul style="list-style-type: none"> 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
---	--

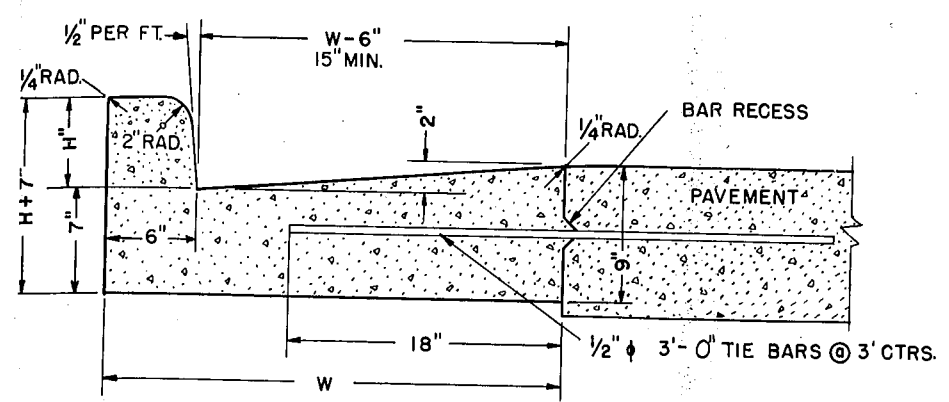
LAYOUT

SCALE 1 MILE

TOTAL NET LENGTH OF CENTERLINE = 0.343 MI. F 6801 (8)
TOTAL NET LENGTH OF CENTERLINE = 3.970 MI. F 05-3 (19)
TOTAL = 4.313 MI.

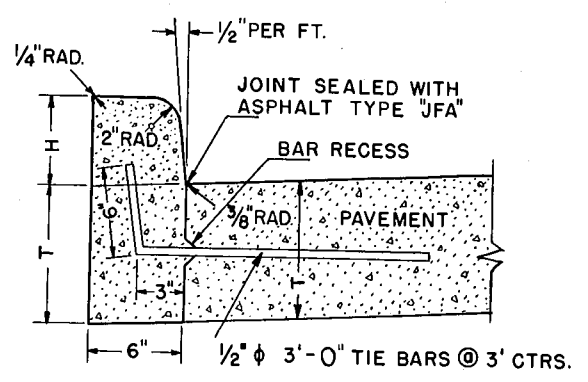
STATE HIGHWAY COMMISSION OF WISCONSIN MADISON, WIS.	DEPARTMENT OF COMMERCE BUREAU OF PUBLIC ROADS
SURVEYOR M.J.S. NOTE BOOK 4533-4534 DIVISION COMPUTER L.A.C. M.O. CHECKER DIVISION CHECKER L.A.K. CORRECT	RECOMMENDED FOR APPROVAL:
CORRECT: DATE 2/2/54 <i>A.J. Farrell</i> DISTRICT ENGINEER	DISTRICT ENGINEER DATE
RECOMMENDED FOR APPROVAL: DATE <i>2/2/54</i> <i>J.P. Pitt</i> ENGINEER OF DESIGN	APPROVED:
APPROVED: DATE 3/2/54 <i>E.C. Kottler</i> STATE HIGHWAY ENGINEER	DIVISION ENGINEER DATE

SLOPE TO MAINTAIN DRAINAGE
POINTS REFERRED TO ON PROFILE & X-SECTIONS



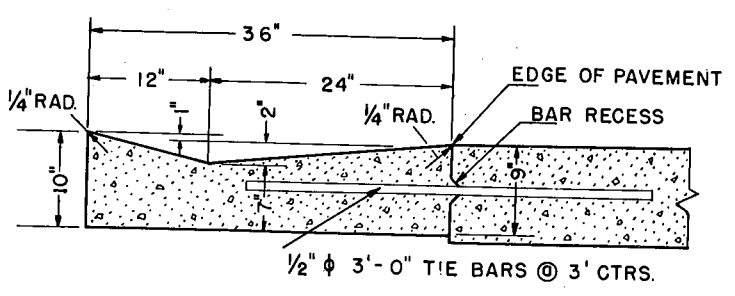
NOTE - "H" SHALL BE 6" UNLESS OTHERWISE INDICATED ON PLAN OR PROFILES.
MAX. VALUE OF "H" = 9" - MIN. VALUE OF "H" = 3 1/2"

TYPE A
COMBINATION CURB AND GUTTER



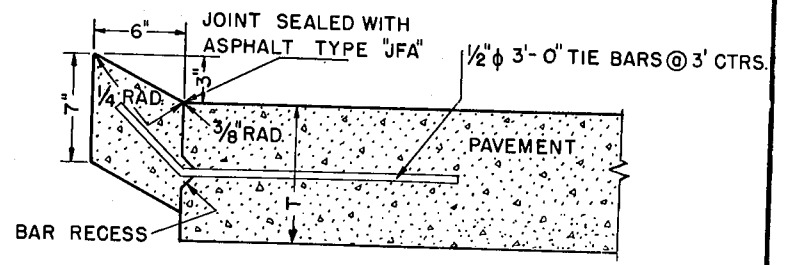
NOTE - "H" SHALL BE 6" UNLESS OTHERWISE INDICATED ON PLAN OR PROFILES.
MAX. VALUE OF "H" = 9" - MIN. VALUE OF "H" = 3 1/2"

TYPE B
CONCRETE CURB

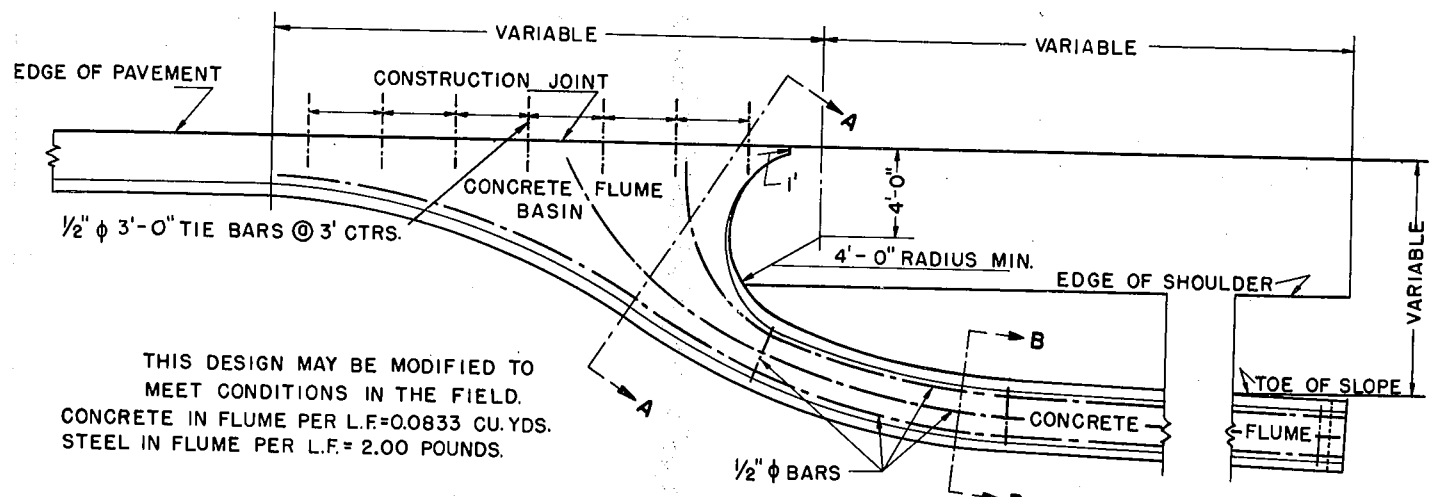


CONCRETE PER L.F. = 0.0756 CU. YDS.

TYPE C
CONCRETE GUTTER

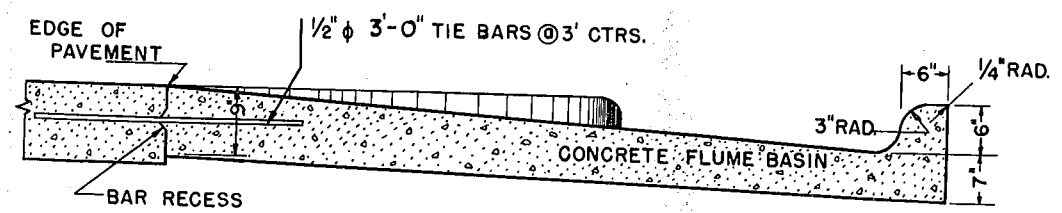


TYPE D
CONCRETE CURB (RURAL)

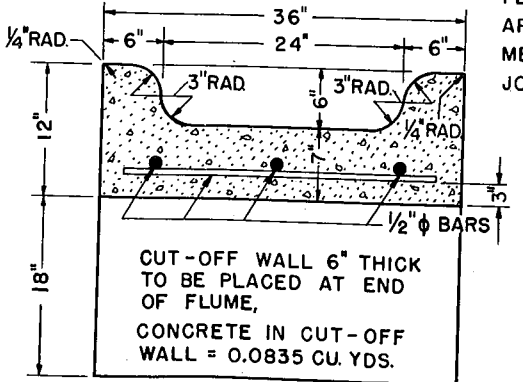


THIS DESIGN MAY BE MODIFIED TO MEET CONDITIONS IN THE FIELD.
CONCRETE IN FLUME PER L.F. = 0.0833 CU. YDS.
STEEL IN FLUME PER L.F. = 2.00 POUNDS.

PLAN



SECTION A-A



SECTION B-B

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 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:

3-1.1.3

LEGEND

	P. C. CONCRETE PAVEMENT
	GRAVEL OR CRUSHED STONE BASE COURSE
	SAND GRAVEL FILL

APPLICABLE STANDARD DETAIL DRAWING

CURB & GUTTER	3-1.1.3
SIN COVERS TYPE "F" & "A"	5-3.4.2
TYPE "I"	5-3.5.1
ENDWALLS TYPE "B" (RIPRAP)	6-2.2.1
POSTS	7-1.3.1
TION BARRICADE	7-4.1.1
SE JOINTS CONCRETE PAV'T.	4-4.2.4
NAL JOINTS "	4-4.3.3
TING OLD ROAD	1-4.1.1

TYPICAL CROSS SECTION FOR
24' P.C. CONCRETE PAVEMENT
44' ROADBED

SCALE - SEE DIMENSIONS

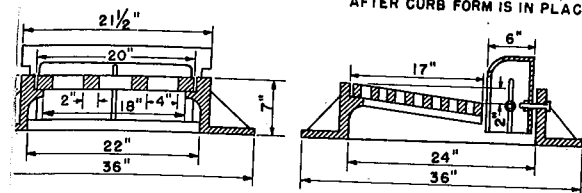
INLET OR DISCHARGE FOR STANDARD CURB AND GUTTER SURFACE DRAIN.

P.R.A. DIVISION	PROJECT	SHEET NO.	TOTAL SHEETS
WIS. 5N	F 6801(8) F 05-3(19)	2	26

SLOPE TO MAINTAIN DRAINAGE

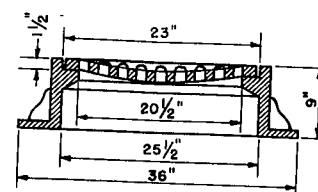
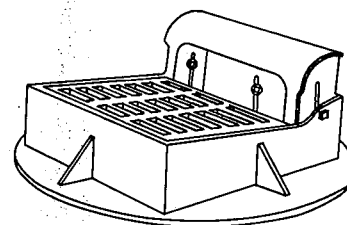
POINTS REFERRED TO ON PROFILE & X-SECTIONS

CURB BOX ADJUSTABLE 4" TO 9"
ADJUST CURB BOX FOR HEIGHT
AFTER CURB FORM IS IN PLACE.



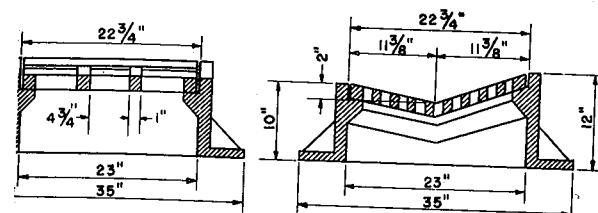
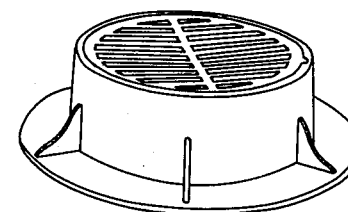
WEIGHT 400 LBS.

TYPE A



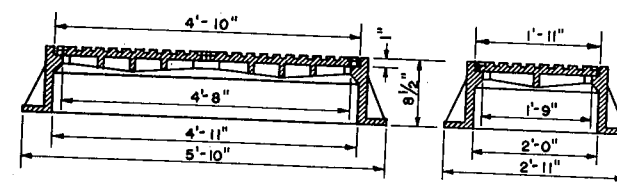
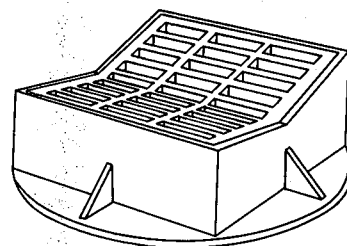
WEIGHT 350 LBS.

TYPE F



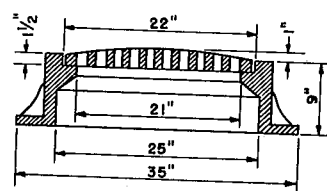
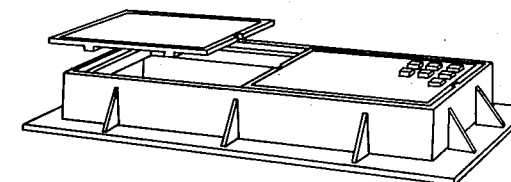
WEIGHT 440 LBS.

TYPE B



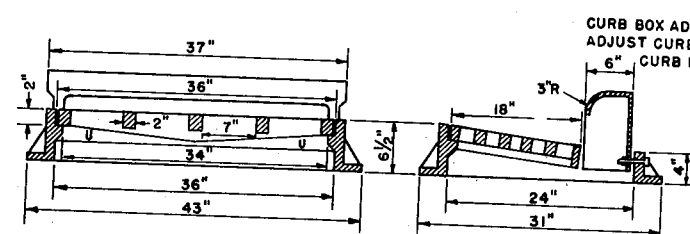
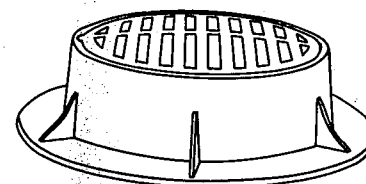
WEIGHT 1000 LBS.

TYPE G



WEIGHT 310 LBS.

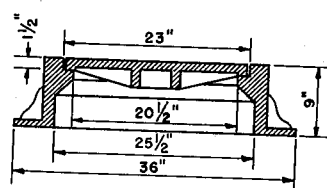
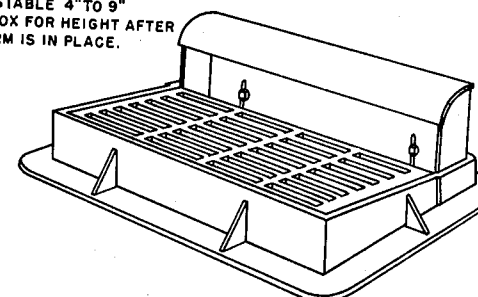
TYPE C



WEIGHT 500 LBS.

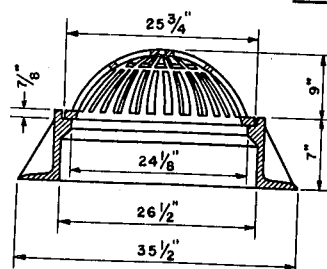
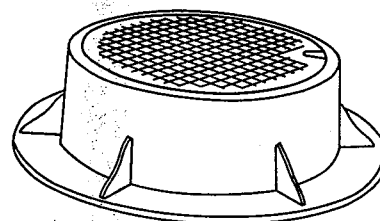
TYPE H

CURB BOX ADJUSTABLE 4" TO 9"
ADJUST CURB BOX FOR HEIGHT AFTER
6" CURB FORM IS IN PLACE.



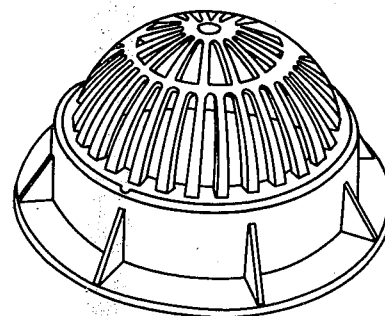
WEIGHT 400 LBS.

TYPE D



WEIGHT 325 LBS.

TYPE E



CONSTRUCTION NOTES

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

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

CATCH BASINS ARE CALLED FOR ON THE PLANS AS "CATCH BASINS 1-A", "CATCH BASINS 3-C", ETC., THE NUMERAL DESIGNATES THE MASONRY PORTION OF THE STRUCTURE AND THE LETTER DESIGNATES THE FIXTURE TO BE USED THEREON. CATCH BASIN FRAMES AND COVERS SUBJECT TO TRAFFIC TO BE MACHINED OR NON-ROCKING TYPE.

LEGEND

	P. C. CONCRETE PAVEMENT
	GRAVEL OR CRUSHED STONE BASE COURSE
	SAND GRAVEL FILL
	3" DEPTH SALVAGED TOP SOIL
	SODDING
	GROUTED RUBBLE PAVING

APPLICABLE STANDARD DETAIL DRAWING

CURB & GUTTER	3-1.1.3
SIN COVERS TYPE "F" & "A"	5-3.4.2
TYPE "I"	5-3.5.1
ENDWALLS TYPE "B" (RIPRAP)	6-2.2.1
POSTS	7-1.3.1
TION BARRICADE	7-4.1.1
SE JOINTS CONCRETE PAV'T.	4-4.2.4
NAL JOINTS " "	4-4.3.3
TING OLD ROAD	1-4.1.1

CATCH BASIN COVERS

STATE HIGHWAY COMMISSION OF WISCONSIN

RECOMMENDED FOR APPROVAL:

DATE 1/27/53 *Carl Bluk*
CONSTRUCTION ENGINEER

APPROVED:

DATE 1/27/53 *E.C. Rottiers*
STATE HIGHWAY ENGINEER

DRAWN LJD
CHECKED

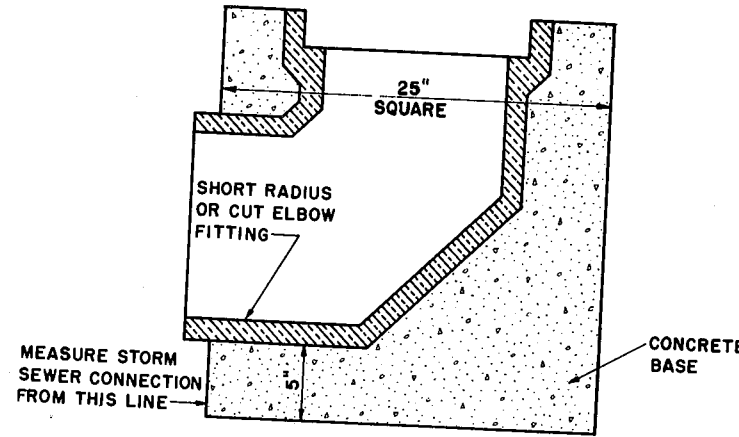
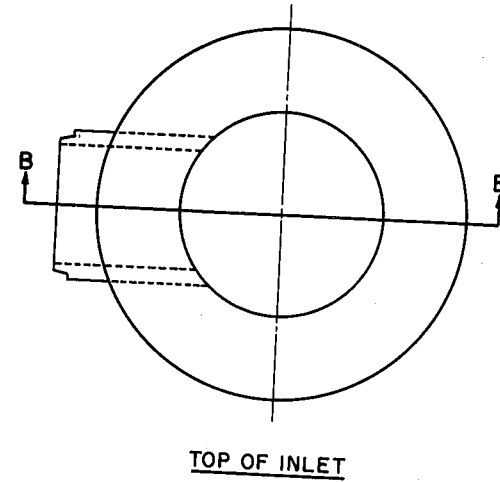
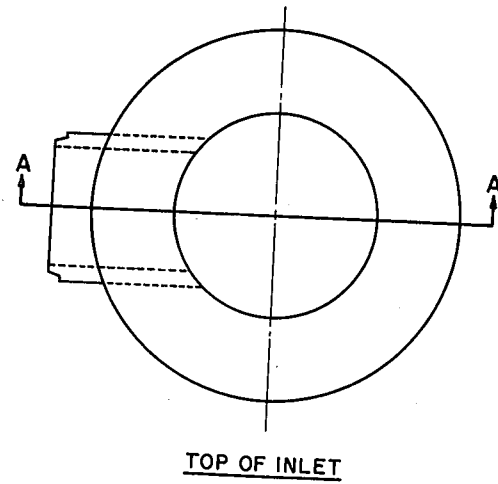
5-3.4.2

TYPICAL CROSS SECTION
FOR
24' P.C. CONCRETE PAVEMENT
44' ROADBED
SCALE - SEE DIMENSIONS

SLOPE TO MAINTAIN DRAINAGE

POINTS REFERRED TO ON PROFILES & SECTIONS

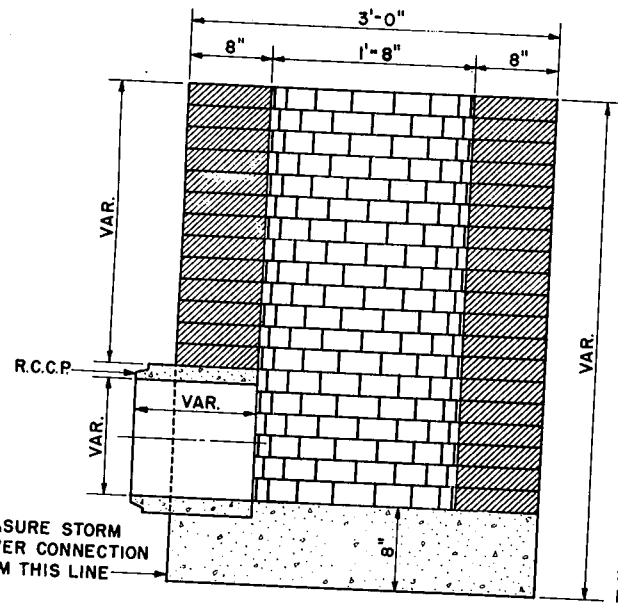
P.R.A. DIVISION	PROJECT	SHEET NO.	TOTAL SHEETS
WIS. SN	F 6801(8) F 05-3(19)	2	26



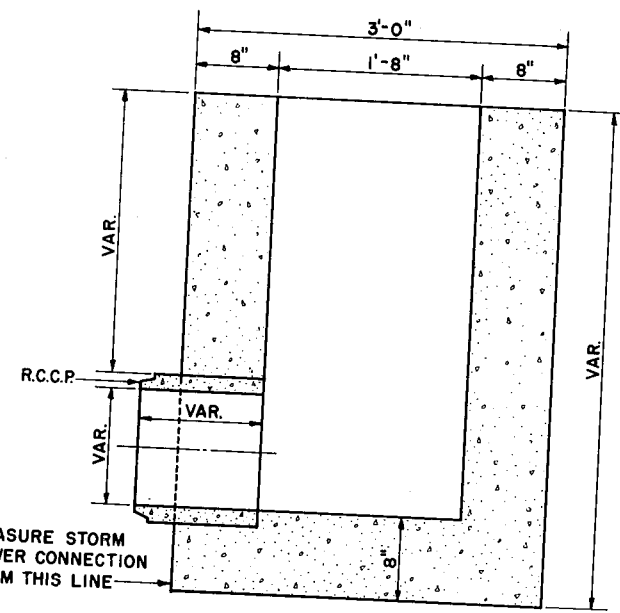
TYPE 2

GENERAL NOTES

DETAILS RELATIVE TO THESE ITEMS SHALL CONFORM TO THE PERTINENT REQUIREMENTS OF THE STANDARD SPECIFICATIONS AND THE APPLICABLE SPECIAL PROVISIONS. VARIATIONS IN DIMENSIONS AND DESIGN WILL BE PERMISSIBLE PROVIDING EQUIVALENT CAPACITY AND STRENGTH ARE ATTAINED. ARRANGEMENT, SIZE AND NUMBER OF INLET AND DISCHARGE PIPES SHALL CONFORM TO THE NEEDS OF THE PERTINENT LOCATION. INLETS ARE CALLED FOR ON THE PLANS AS "INLETS 1-N", "INLETS 2-R", ETC., THE NUMERAL DESIGNATES THE MASONRY PORTION OF THE STRUCTURE AND THE LETTER DESIGNATES THE COVER TO BE USED THEREON. WHEN CONCRETE IS USED IN THE CONSTRUCTION OF TYPE 1 INLET, THE TOP OF THE MASONRY SHALL BE LEFT SUFFICIENTLY LOW TO PERMIT PROPER ADJUSTMENT OF COVER TO GRADE BY THE USE OF MORTAR AND BRICK.



SECTION A-A
BRICK



SECTION B-B
CONCRETE

TYPE 1

LEGEND

	P. C. CONCRETE PAVEMENT
	GRAVEL OR CRUSHED STONE BASE COURSE
	SAND GRAVEL FILL
	3" DEPTH SALVAGED TOP SOIL
	SODDING
	GROUTED RUBBLE PAVING

APPLICABLE STANDARD DETAIL DRAWING

CURB & GUTTER	3-1.1.3
SIN COVERS TYPE "F" & "A"	5-3.4.2
TYPE "I"	5-3.5.1
ENDWALLS TYPE "B" (RIPRAP)	6-2.2.1
POSTS	7-1.3.1
TION BARRICADE	7-4.1.1
SE JOINTS CONCRETE PAV'T.	4-4.2.4
NAL JOINTS "	4-4.3.3
TING OLD ROAD	1-4.1.1

INLETS

STATE HIGHWAY COMMISSION OF WISCONSIN

RECOMMENDED FOR APPROVAL:

DATE 1/27/53 *Ar. Bluk*
CONSTRUCTION ENGINEER

APPROVED:

DATE 1/27/53 *E. L. Ruttiger*
STATE HIGHWAY ENGINEER

DRAWN LJD
CHECKED

5-3.5.1

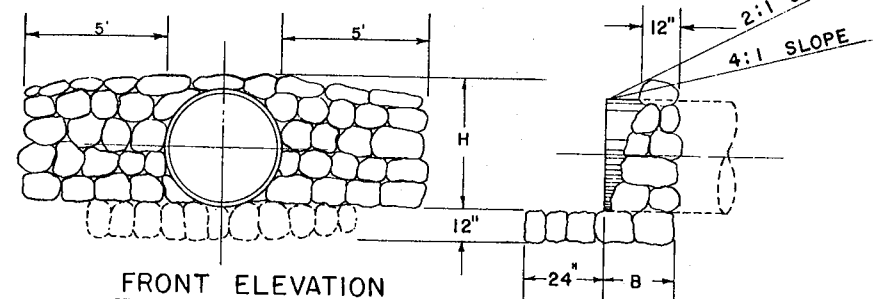
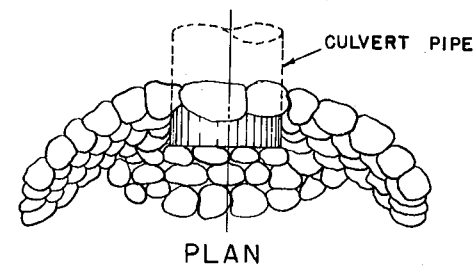
TYPICAL CROSS SECTION
FOR
24' P.C. CONCRETE PAVEMENT
44' ROADBED
SCALE - SEE DIMENSIONS

SLOPE TO MAINTAIN DRAINAGE

POINTS REFERRED TO ON PROFILE & V-SECTIONS

P.R.A. DIVISION	PROJECT	SHEET NO.	TOTAL SHEETS
WIS. SN	F6801(8) F05-3(19)	2	26

RIP RAP HEADWALLS FOR CULVERTS UNDER ROADWAY

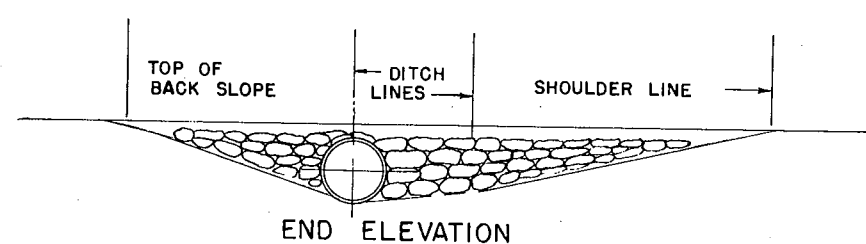
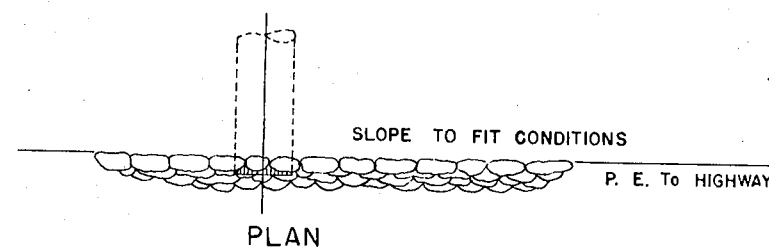


QUANTITIES FOR RIP RAP HEADWALLS			
DIAMETER OF PIPE	DIMENSIONS		CU. YDS. PER HDWL
	H	B	
12"	18"	18"	1.0
15" & 18"	24"	18"	1.5
24"	30"	18"	2.0
30"	36"	21"	2.5
36"	42"	24"	3.0
42"	48"	27"	3.5
48"	54"	30"	4.0

CONSTRUCTION NOTES

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

RIP RAP HEADWALLS FOR CULVERTS UNDER SIDE ROADS & PRIVATE ENTRANCES



LEGEND

- P. C. CONCRETE PAVEMENT
- GRAVEL OR CRUSHED STONE BASE COURSE
- SAND GRAVEL FILL
- 3" DEPTH SALVAGED TOP SOIL
- SODDING
- GROUTED RUBBLE PAVING

APPLICABLE STANDARD DETAIL DRAWING

CURB & GUTTER	3-1.1.3
SIN COVERS TYPE "F" & "A"	5-3.4.2
TYPE "I"	5-3.5.1
ENDWALLS TYPE "B" (RIPRAP)	6-2.2.1
POSTS	7-1.3.1
TION BARRICADE	7-4.1.1
SE JOINTS CONCRETE PAV'T.	4-4.2.4
NAL JOINTS " "	4-4.3.3
TING OLD ROAD	1-4.1.1

CULVERT END WALLS
RIP RAP TYPE "B"

STATE HIGHWAY COMMISSION OF WISC.

RECOMMENDED FOR APPROVAL.

Frank Crave
DESIGN ENGINEER

W. Wink
CONSTRUCTION ENGINEER

APPROVED: OCT. 1, 1945

DRAWN: DIV. 4
CHECKED: P.C.

W. Wink
STATE HIGHWAY COMMISSION

6-2.2.1

TYPICAL CROSS SECTION FOR

24' P.C. CONCRETE PAVEMENT
44' ROADBED

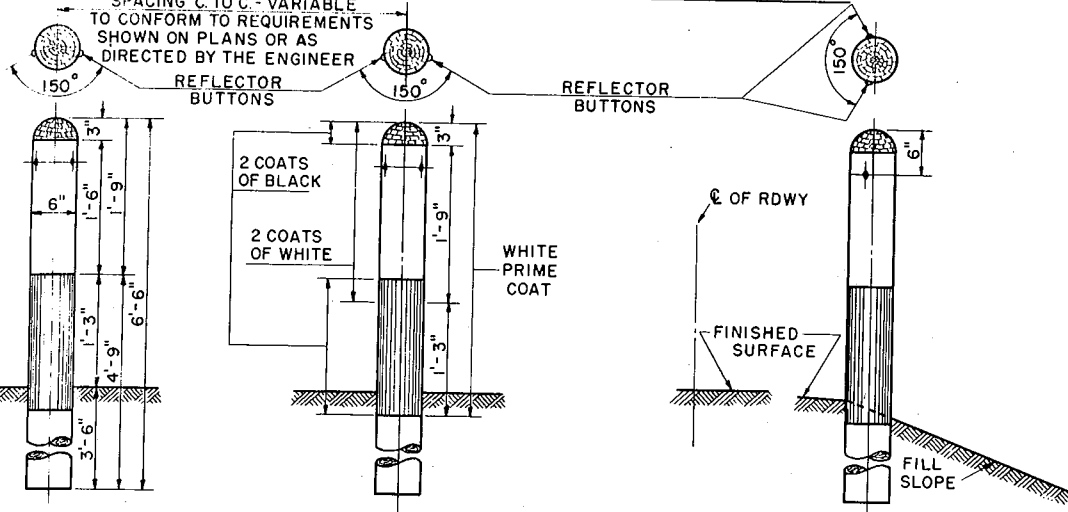
SCALE - SEE DIMENSIONS

P.R.A. DIVISION	PROJECT	SHEET NO.	TOTAL SHEETS
WIS. 5N	F 6801(8) F 05-3(19)	2	26

SLOPE TO MAINTAIN DRAINAGE

POINTS REFERRED TO ON PROFILE & X-SECTIONS

MARKER POSTS FOR SHOULDER DELINEATION AND CULVERTS

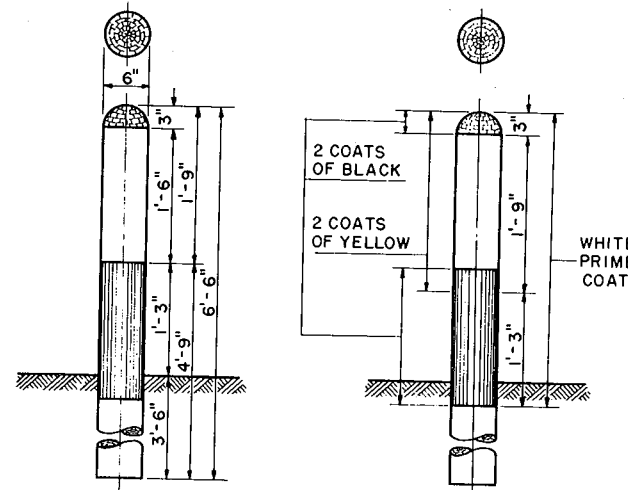


ELEVATION SHOWING SPACING

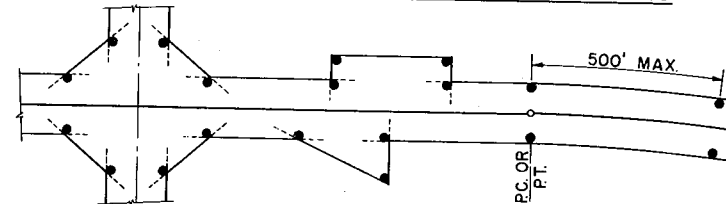
SPACING OF MARKER POSTS FOR VARYING LENGTHS OF SHOULDER TO BE PROTECTED
 100 FT. TO 500 FT. 50 FT.
 500 FT. OR MORE 100 FT.
 SEE MISCELLANEOUS QUANTITY SHEET OF PLANS

ELEVATION SHOWING LOCATION ON ROAD SHOULDER

MARKER POSTS FOR RIGHT OF WAY



ELEVATION SHOWING SETTING AND PAINTING

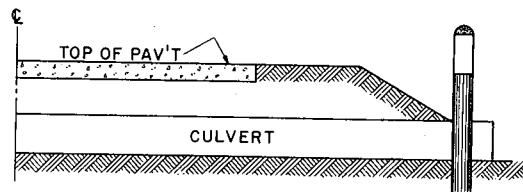


TYPICAL PLAN SHOWING LAYOUT OF POSTS

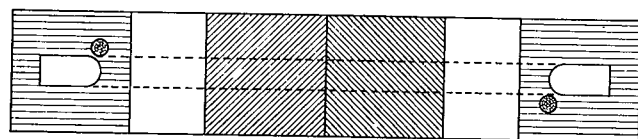
CONSTRUCTION NOTES

RIGHT OF WAY MARKER POSTS SHALL BE ERECTED IN ADVANCE OF GRADING OPERATIONS.
 POSTS MAY BE SHAPED AND PAINTED PRIOR TO SETTING. ANY DAMAGE TO PAINT SURFACE DURING ERECTION MUST BE TOUCHED UP BEFORE ACCEPTANCE.
 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.



SECTION WITH CULVERT MARKER



PLAN SKETCH

CONSTRUCTION NOTES

REFLECTOR BUTTONS SHALL BE SIZE NO. 1 CRYSTAL, COMPLETE WITH CLIP FOR WOOD MOUNTING. DRILL MOUNTING HOLE TO FIT BUTTON (GENERALLY 7/8" DIAMETER).

MARKER POST AS CULVERT MARKER TO BE PLACED AT BOTH ENDS OF CULVERT ON NEAR SIDE OF CULVERT. NO REFLECTOR BUTTON REQUIRED.

GENERAL NOTES

DETAILS FOR THIS ITEM SHALL CONFORM TO THE PERTINENT REQUIREMENTS OF THE STANDARD SPECIFICATIONS AND THE APPLICABLE SPECIAL PROVISIONS.

LEGEND

- P. C. CONCRETE PAVEMENT
- GRAVEL OR CRUSHED STONE BASE COURSE
- SAND GRAVEL FILL
- 3" DEPTH SALVAGED TOP SOIL
- SODDING
- GROUTED RUBBLE PAVING

APPLICABLE STANDARD DETAIL DRAWING

TE CURB & GUTTER	3-1.1.3
ASIN COVERS TYPE "F" & "A"	5-3.4.2
TYPE "I"	5-3.5.1
T ENDWALLS TYPE "B" (RIPRAP)	6-2.2.1
POSTS	7-1.3.1
UCTION BARRICADE	7-4.1.1
ERSE JOINTS CONCRETE PAVT.	4-4.2.4
ADINAL JOINTS " "	4-4.3.3
RATING OLD ROAD	1-4.1.1

MARKER POSTS

STATE HIGHWAY COMMISSION OF WISCONSIN

RECOMMENDED FOR APPROVAL:

DATE 4/17/52 *As Blue*
 CONSTRUCTION ENGINEER

APPROVED:
 DATE 4/1/52 *P. K. Sullivan*
 STATE HIGHWAY ENGINEER

DRAWN LJD
 CHECKED

TYPICAL CROSS SECTION FOR

24' P.C. CONCRETE PAVEMENT

44' ROADBED

SCALE - SEE DIMENSIONS

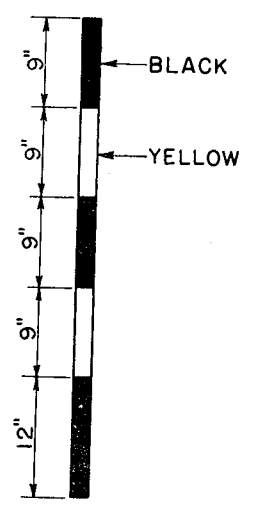
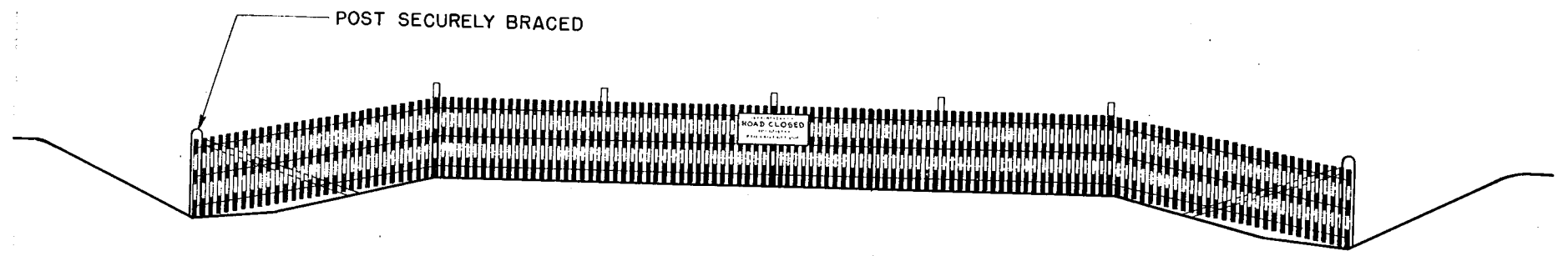
7-1.3.1

P.R.A. DIVISION	PROJECT	SHEET NO.	TOTAL SHEETS
WIS. SN	F6801(8) F05-3(19)	2	26

SLOPE TO MAINTAIN DRAINAGE
POINTS REFERRED TO ON PROFILE & X-SECTIONS

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.

LEGEND

	P. C. CONCRETE PAVEMENT
	GRAVEL OR CRUSHED STONE BASE COURSE
	SAND GRAVEL FILL
	3" DEPTH SALVAGED TOP SOIL
	SODDING
	GROUTED RUBBLE PAVING

APPLICABLE STANDARD DETAIL DRAWING

CONCRETE CURB & GUTTER	3-1.1.3
MANHOLE COVERS TYPE "F" & "A"	5-3.4.2
TYPE "I"	5-3.5.1
RETAINMENT WALLS TYPE "B" (RIPRAP)	6-2.2.1
WOODEN POSTS	7-1.3.1
CONSTRUCTION BARRICADE	7-4.1.1
TRANSVERSE JOINTS CONCRETE PAVT.	4-4.2.4
LONGITUDINAL JOINTS " "	4-4.3.3
GRADING OLD ROAD	1-4.1.1

STATE HIGHWAY COMMISSION OF WISCONSIN

CONSTRUCTION BARRICADE

RECOMMENDED FOR APPROVAL:

Frank Crase
DESIGN ENGINEER

M. Bluh
CONSTRUCTION ENGINEER

APPROVED:

E. G. Koelliker
STATE HIGHWAY ENGINEER

DRAWN H.M. DATE OCT. 1, 1945
CHECKED WHG

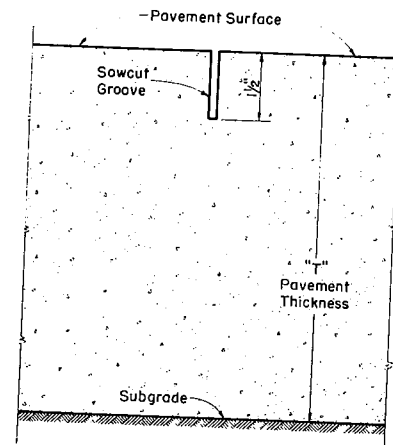
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TYPICAL CROSS SECTION FOR
24' P.C. CONCRETE PAVEMENT
44' ROADBED
SCALE - SEE DIMENSIONS

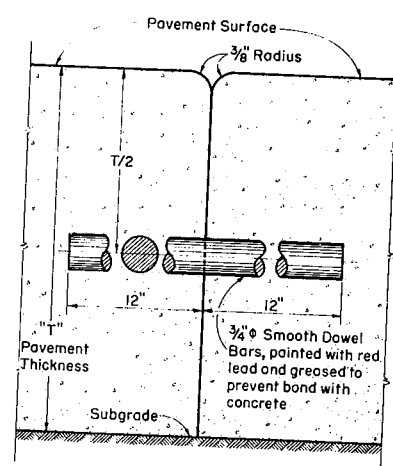
SLOPE TO MAINTAIN DRAINAGE

POINTS REFERRED TO ON PROFILE & X-SECTIONS

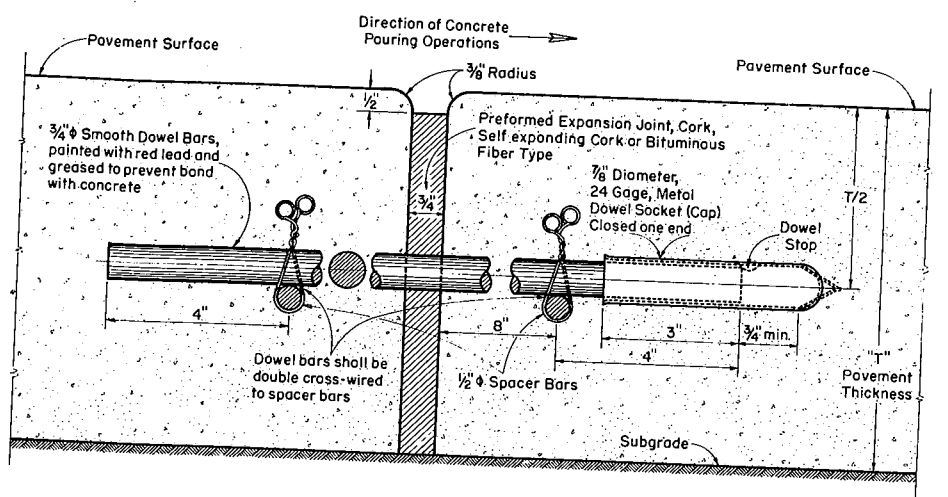
P.R.A. DIVISION	PROJECT	SHEET NO.	TOTAL SHEETS
WIS. 5N	F6801(8) F05-3(19)	2	26



SAWED CONTRACTION JOINT

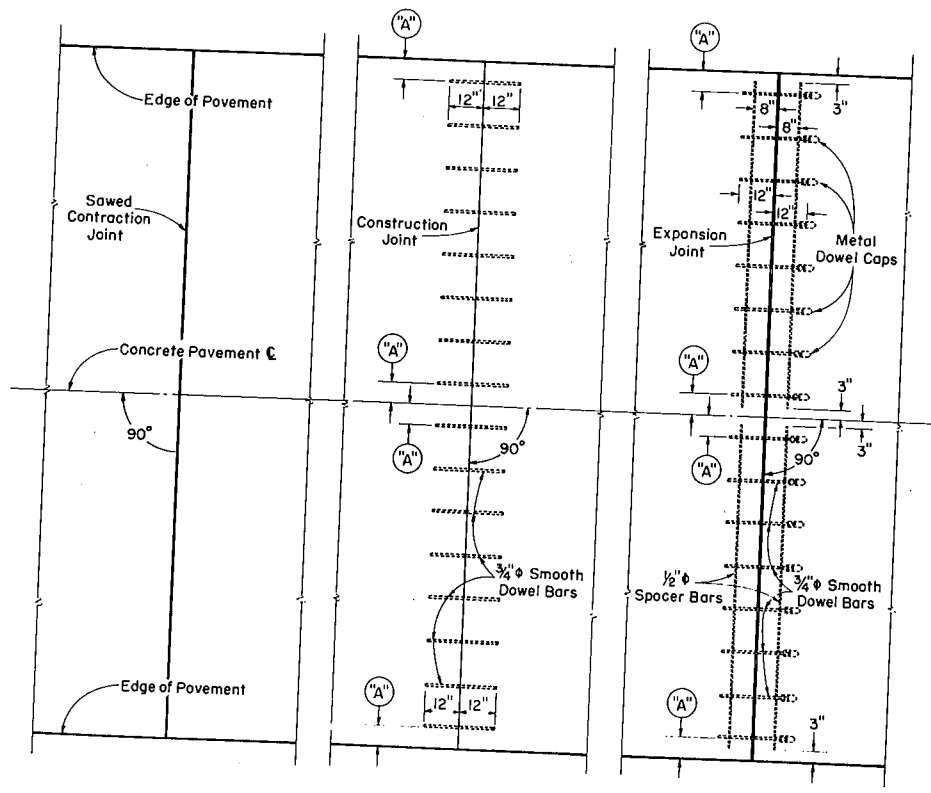


CONSTRUCTION JOINT



EXPANSION JOINT

- LEGEND**
- P. C. CONCRETE PAVEMENT
 - GRAVEL OR CRUSHED STONE BASE COURSE
 - SAND GRAVEL FILL
 - 3" DEPTH SALVAGED TOP SOIL
 - SODDING
 - GROUDED RUBBLE PAVING



SAWED CONTRACTION JOINT

CONSTRUCTION JOINT

EXPANSION JOINT

GENERAL NOTES

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

CONTRACTION JOINTS

Transverse Contraction Joints shall be Sawed Joints. The normal spacing shall be eighty (80) feet except that where pavement is contiguous to curb and gutter on one or both sides the normal spacing shall be forty (40) feet. They shall be installed at a reduced spacing of not less than fifty (50) percent of normal, as directed by the engineer, in order to coincide with the location of manholes or other fixtures imbedded in the pavement or contiguous curb and gutter and to adjust for locations of construction or expansion joints.

Under normal or rapid setting conditions, sawing of joints for each morning's pour shall be completed during the same day; remaining joints of each day's pour shall be sawed not later than the following day.

When cool weather results in retarded setting of the concrete, sawing of contraction joints will be deferred, as directed by the Engineer, only for a time sufficient to preclude tearing of the concrete adjacent to the joint. Water shall be continuously sprayed on the saw blades during sawing operations.

CONSTRUCTION JOINTS

Construction Joints shall be installed where shown on the plans and as necessary when so directed by the Engineer.

EXPANSION JOINTS

Expansion Joints required only at Bridge Approaches and/or where shown on the plans or as directed by the Engineer.

SEALING JOINTS

Joints shall be sealed. Sealing of joints shall be done in a manner to preclude overfilling and flow of sealing material onto the surface of the pavement.

Width of Pavement	CONSTR. JOINT		EXPANSION JOINT		Distance C:C Dowel Bars	Distance "A"
	No. & Size of Dowel Bars Per Joint	No. & Size of Dowel Bars Per Joint	No. & Size of Spacer Bars Per Joint	No. & Size of Dowel Bars Per Joint		
20'	16- 3/4" x 2'-0"	16- 3/4" x 2'-0"	4- 1/2" x 9'-6"	1'-3"	7 1/2"	
22'	18- 3/4" x 2'-0"	18- 3/4" x 2'-0"	4- 1/2" x 10'-6"	1'-3"	6"	
24'	20- 3/4" x 2'-0"	20- 3/4" x 2'-0"	4- 1/2" x 11'-6"	1'-3"	4 1/2"	

TABLE SHOWING LOAD TRANSFER STEEL REQUIREMENTS FOR CONSTRUCTION & EXPANSION JOINTS

TRANSVERSE JOINTS CONCRETE PAVEMENT

STATE HIGHWAY COMMISSION OF WISCONSIN

RECOMMENDED FOR APPROVAL:

DATE: 3/1/54
APPROVED: [Signature] ENGINEER OF DESIGN

DATE: 3/7/54
APPROVED: [Signature] STATE HIGHWAY ENGINEER

PLATE NO. 4-4.2.4

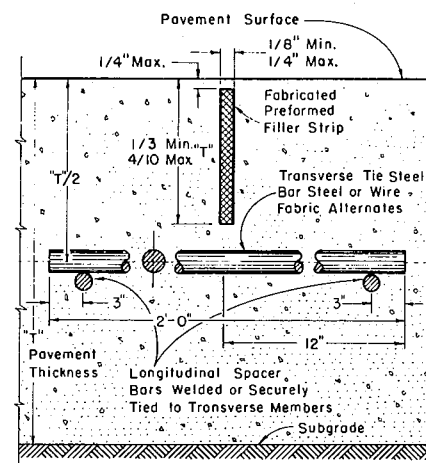
- APPLICABLE STANDARD DETAIL DRAWING
- TYPE CURB & GUTTER 3-1.1.3
 - MANHOLE COVERS TYPE "F" & "A" 5-3.4.2
 - TYPE "I" 5-3.5.1
 - RETAINING WALLS TYPE "B" (RIPRAP) 6-2.2.1
 - POSTS 7-1.3.1
 - CONSTRUCTION BARRICADE 7-4.1.1
 - TRANSVERSE JOINTS CONCRETE PAVT. 4-4.2.4
 - LONGITUDINAL JOINTS " " 4-4.3.3
 - RATING OLD ROAD 1-4.1.1

TYPICAL CROSS SECTION FOR 24' P.C. CONCRETE PAVEMENT 44' ROADBED

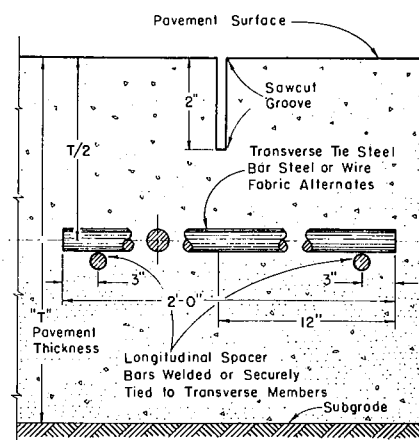
SCALE - SEE DIMENSIONS

SLOPE TO MAINTAIN DRAINAGE

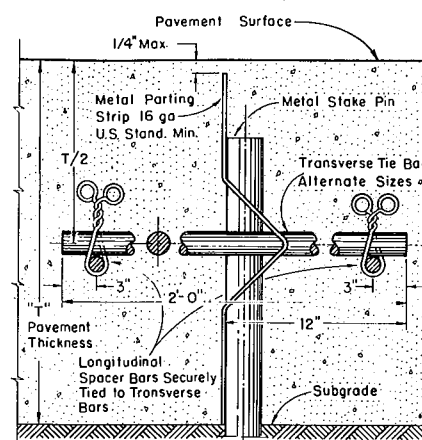
POINTS REFERRED TO ON PROFILE & X-SECTIONS



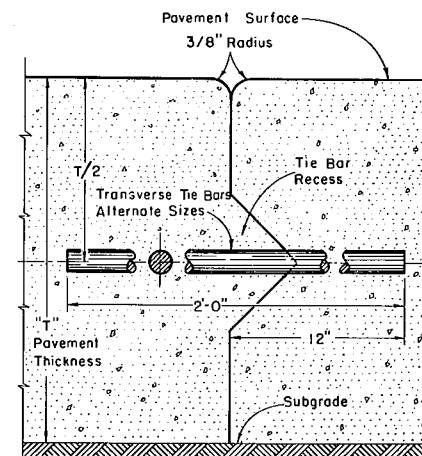
FILLER STRIP JOINT



SAWED JOINT

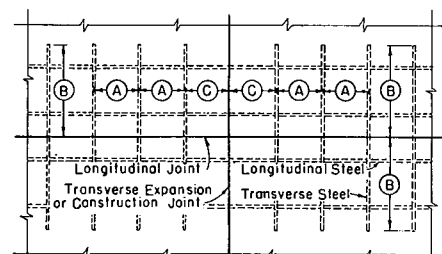


PARTING STRIP JOINT

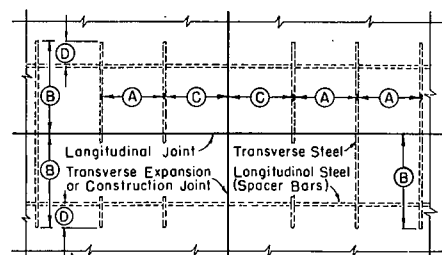


CONSTRUCTION JOINT

- LEGEND**
- P. C. CONCRETE PAVEMENT
 - GRAVEL OR CRUSHED STONE BASE COURSE
 - SAND GRAVEL FILL
 - 3" DEPTH SALVAGED TOP SOIL
 - SODDING
 - GROUTED RUBBLE PAVING



PLAN VIEW SHOWING RELATIVE POSITION OF TIE STEEL FOR WELDED STEEL WIRE FABRIC



PLAN VIEW SHOWING RELATIVE POSITION OF TIE STEEL FOR BAR STEEL (DOWEL BARS)

TIE STEEL ALTERNATES

	WELDED STEEL WIRE FABRIC			BAR STEEL (Dowel Bars)		
	2 Gage Steel	3 or 4 Gage Steel	5 or 6 Gage Steel	# 2 1/4" Ø	# 3 3/8" Ø	# 4 1/2" Ø
Filler Strip Joint						
Sawed Joint	"	"	"	"	"	"
Parting Strip Joint	—	—	—	"	"	"
Construction Joint	—	—	—	"	"	"
(A)	10"	8"	6"	9"	20"	36"
(B)	12"	12"	12"	12"	12"	12"
(C)	3" to 10"	3" to 8"	3" to 6"	3" to 9"	3" to 20"	3" to 36"
(D)	—	—	—	3"	3"	3"
Spacer Bars	—	—	—	1/4" Ø	1/4" Ø	1/4" Ø

TABLE SHOWING SIZES & DIMENSIONS FOR ALTERNATE TIE STEEL IN LONGITUDINAL JOINTS

GENERAL NOTES

Details of construction not shown on this drawing shall conform to the pertinent requirements of the Standard Specifications Section 2301 and the applicable Special Provisions.

SAWED JOINTS

Sawed Joints shall be constructed not later than Seven (7) days after the concrete has been placed. Water shall be continuously sprayed on the saw blades during sawing operations.

CONSTRUCTION JOINTS

For Construction Joint installations, parting strip of deformed plate, fiber board or other device shall be used to form tie bar recess, subject to the Engineer's approval.

LONGITUDINAL STEEL

In no case shall Longitudinal Tie Steel extend through Transverse Expansion or Construction Joints. Ends of Longitudinal members of contiguous sections or mats need not be lapped.

SEALING JOINTS

Sawed and Construction Joints, only, shall be sealed. Sealing of joints shall be done in a manner to preclude overfilling and flow of sealing material onto the pavement surface.

**LONGITUDINAL JOINTS
CONCRETE PAVEMENT**

STATE HIGHWAY COMMISSION OF WISCONSIN

RECOMMENDED FOR APPROVAL:

3/1/54
DATE

J. P. Pitt
ENGINEER OF DESIGN

APPROVED:

3/2/54
DATE

E. C. Kottman
STATE HIGHWAY ENGINEER

PLATE NO. 4-4.3.3.

APPLICABLE STANDARD DETAIL DRAWING

- TE CURB & GUTTER 3-1.1.3
- BASEIN COVERS TYPE "F" & "A" 5-3.4.2
- TYPE "I" 5-3.5.1
- ENDWALLS TYPE "B" (RIPRAP) 6-2.2.1
- POSTS 7-1.3.1
- CONSTRUCTION BARRICADE 7-4.1.1
- TRANSVERSE JOINTS CONCRETE PAV'T. 4-4.2.4
- LONGITUDINAL JOINTS " " 4-4.3.3
- GRADING OLD ROAD 1-4.1.1

**TYPICAL CROSS SECTION
FOR**

24' P.C. CONCRETE PAVEMENT

44' ROADBED

SCALE - SEE DIMENSIONS

P.R.A. DIVISION	PROJECT	SHEET NO.	TOTAL SHEETS
WIS. SN	F 6801(8) F 05-3(19)	2	26

SLOPE TO MAINTAIN DRAINAGE
POINTS REFERRED TO ON PROFILE & X-SECTIONS



LEGEND

- P. C. CONCRETE PAVEMENT
- GRAVEL OR CRUSHED STONE BASE COURSE
- SAND GRAVEL FILL
- 3" DEPTH SALVAGED TOP SOIL
- SODDING
- GROUTED RUBBLE PAVING

APPLICABLE STANDARD DETAIL DRAWING

TE CURB & GUTTER	3-1.1.3
BASIN COVERS TYPE "F" & "A"	5-3.4.2
TYPE "I"	5-3.5.1
T ENDWALLS TYPE "B" (RIPRAP)	6-2.2.1
R POSTS	7-1.3.1
DUCTION BARRICADE	7-4.1.1
VERSE JOINTS CONCRETE PAV'T.	4-4.2.4
UDINAL JOINTS " "	4-4.3.3
RATING OLD ROAD	1-4.1.1

CONSTRUCTION NOTES

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

OBLITERATING OLD ROAD

STATE HIGHWAY COMMISSION OF WISC.

RECOMMENDED FOR APPROVAL

Frank Craven
DESIGN ENGINEER

W. Blum
CONSTRUCTION ENGINEER

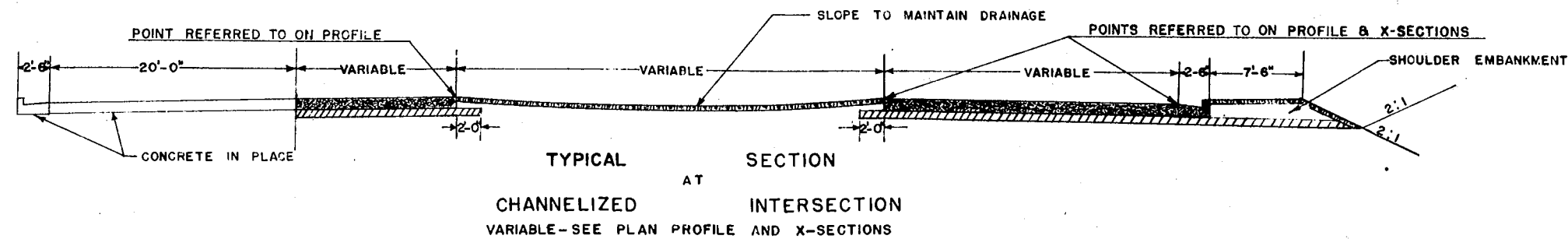
DATE: OCT. 1, 1945

APPROVED: *E. G. Rootin*
STATE HIGHWAY ENGINEER

DRAWN C.A.L. DATE: _____
CHECKED R.F.C. DATE: _____

1-4.1.1

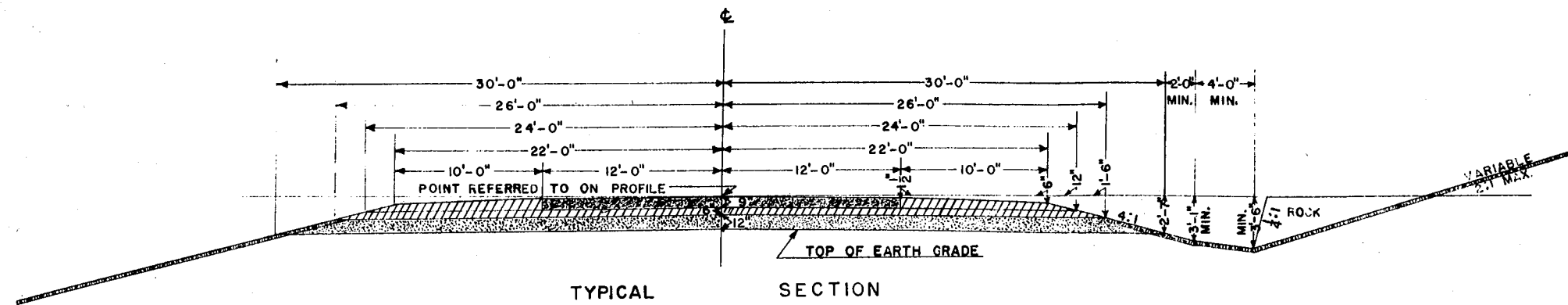
TYPICAL CROSS SECTION
FOR
24' P.C. CONCRETE PAVEMENT
44' ROADBED
SCALE - SEE DIMENSIONS



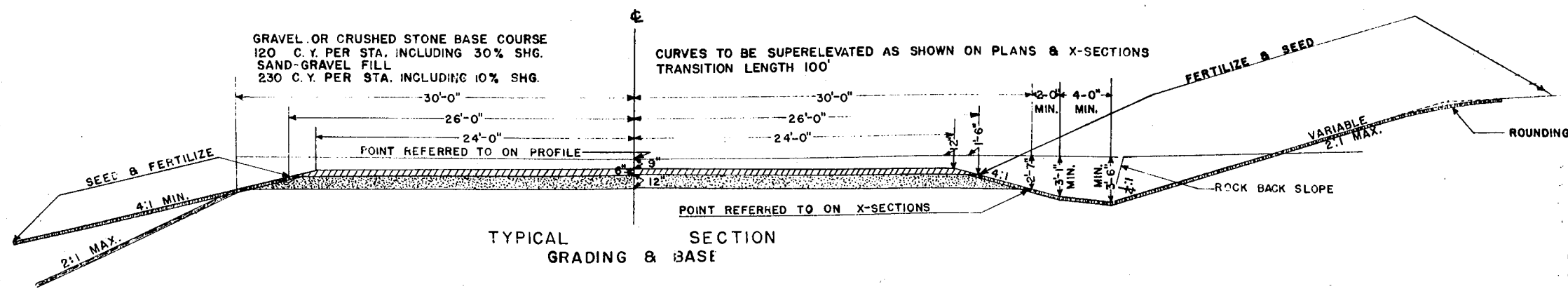
TYPICAL SECTION AT CHANNELIZED INTERSECTION
VARIABLE-SEE PLAN PROFILE AND X-SECTIONS

LEGEND

- P. C. CONCRETE PAVEMENT
- GRAVEL OR CRUSHED STONE BASE COURSE
- SAND GRAVEL FILL
- 3" DEPTH SALVAGED TOP SOIL
- SODDING
- GROUTED RUBBLE PAVING



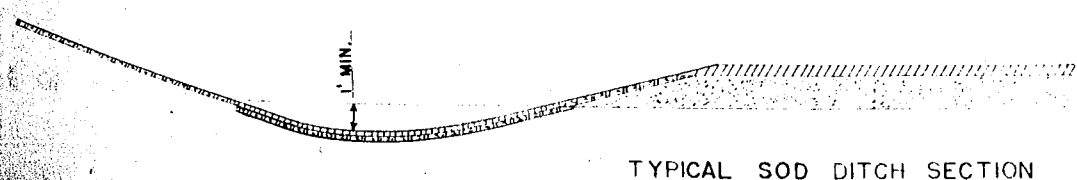
TYPICAL SECTION



TYPICAL GRADING & BASE

APPLICABLE STANDARD DETAIL DRAWING

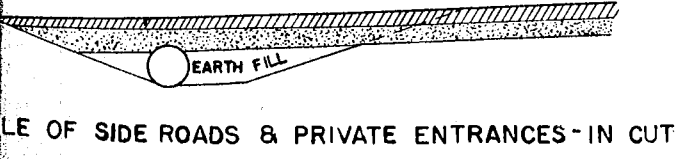
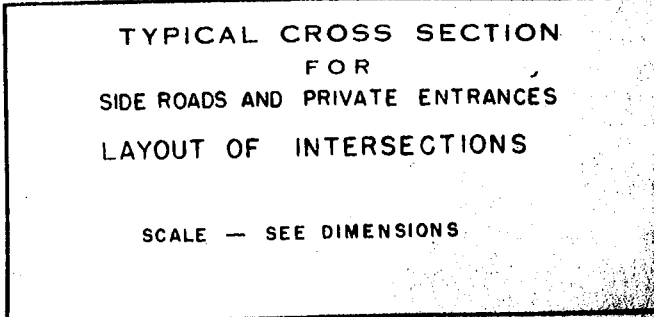
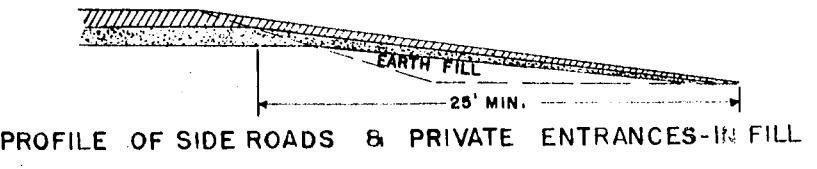
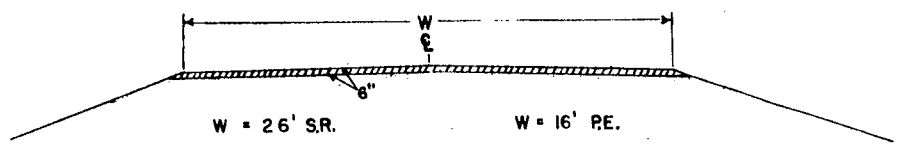
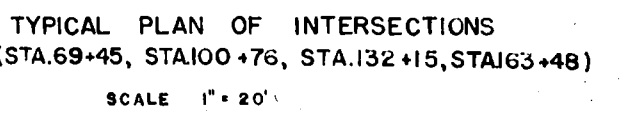
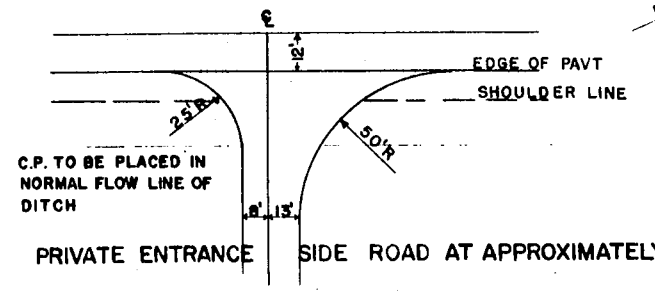
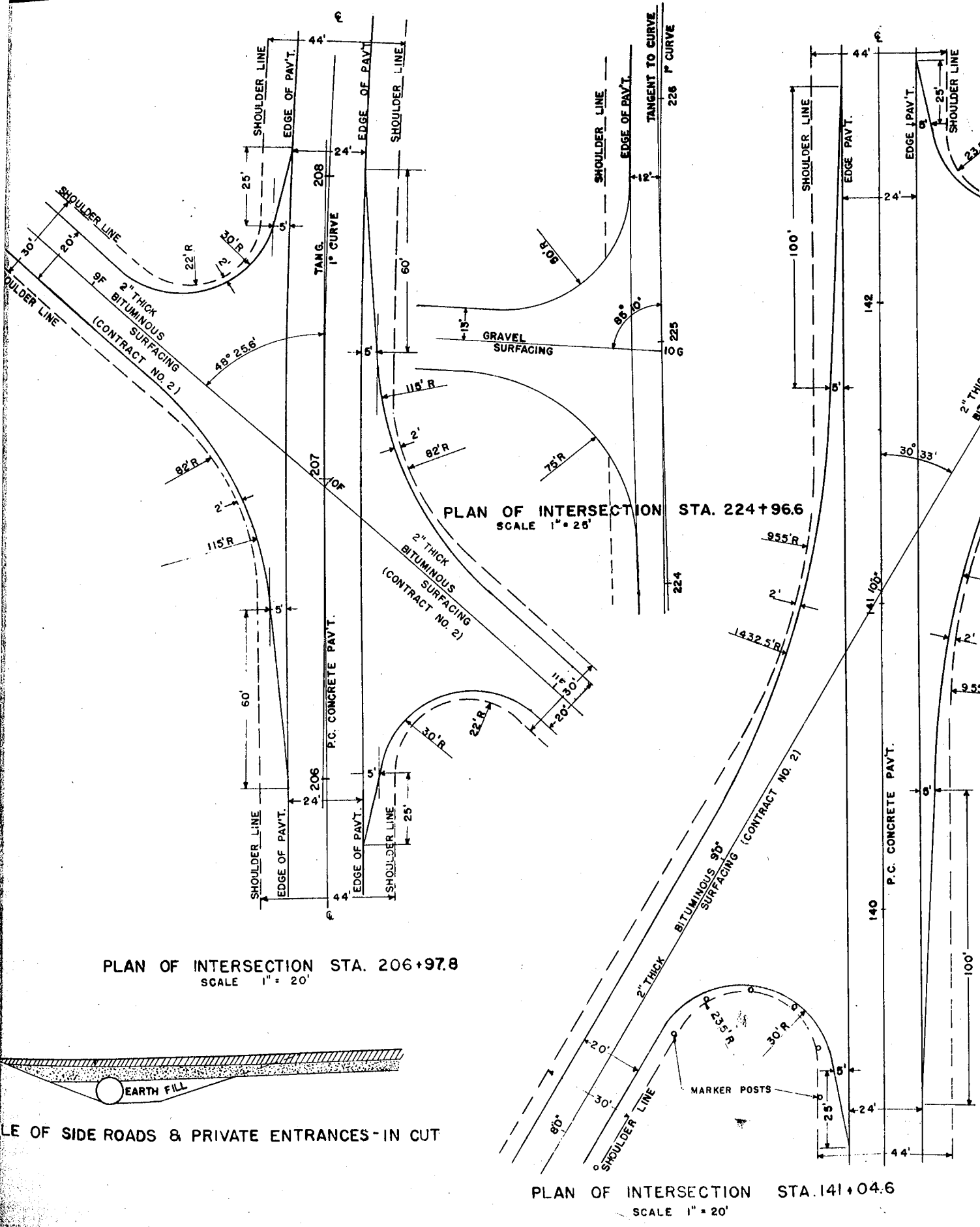
- CONCRETE CURB & GUTTER 3-1.1.3
- CATCH BASIN COVERS TYPE "F" & "A" 5-3.4.2
- INLETS TYPE "I" 5-3.5.1
- CULVERT ENDWALLS TYPE "B" (RIPRAP) 6-2.2.1
- MARKER POSTS 7-1.3.1
- CONSTRUCTION BARRICADE 7-4.1.1
- TRANSVERSE JOINTS CONCRETE PAV'T. 4-4.2.4
- LONGITUDINAL JOINTS " " 4-4.3.3
- OBLITERATING OLD ROAD 1-4.1.1



TYPICAL SOD DITCH SECTION

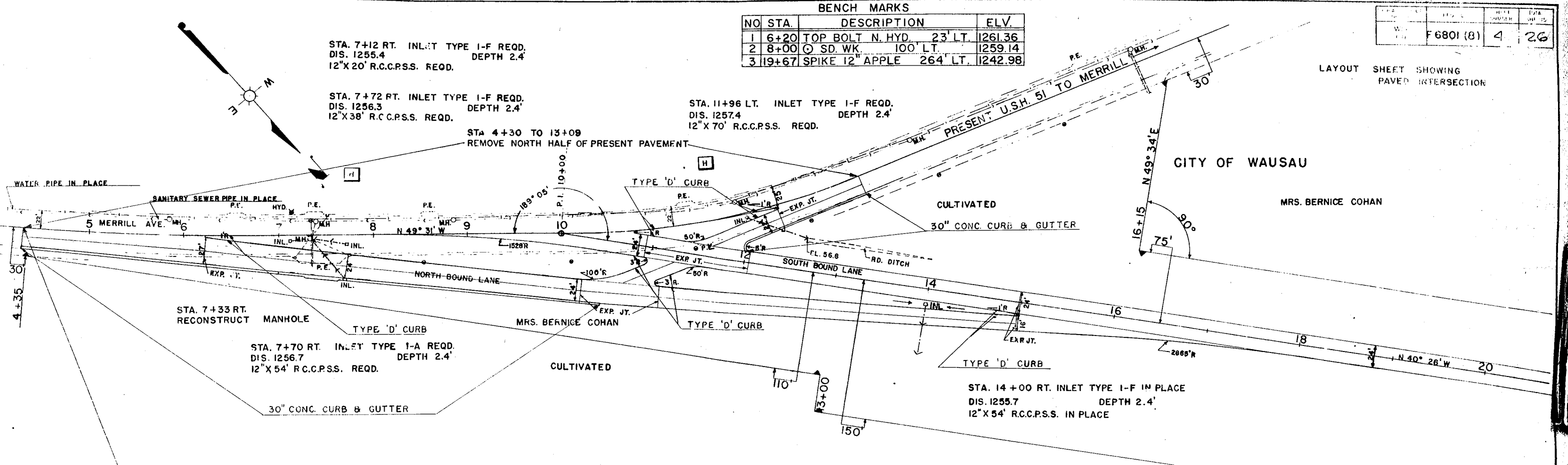
TYPICAL CROSS SECTION FOR
24' P.C. CONCRETE PAVEMENT
44' ROADBED
SCALE - SEE DIMENSIONS

P.R.A. DIVISION	PROJECT	SHEET NO.	TOTAL SHEETS
WIS. SN	F 8801 (8) F 05-3(19)	2.1	26



NO	STA.	DESCRIPTION	ELV.
1	6+20	TOP BOLT N. HYD. 23' LT.	1261.36
2	8+00	SD. WK. 100' LT.	1259.14
3	19+67	SPIKE 12" APPLE 264' LT.	1242.98

PROJECT NO.	F 6801 (8)	SHEET NO.	4	TOTAL SHEETS	26
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STA. 7+12 RT. INLET TYPE 1-F REQD.
DIS. 1255.4 DEPTH 2.4'
12" X 20" R.C.C.P.S.S. REQD.

STA. 7+72 RT. INLET TYPE 1-F REQD.
DIS. 1256.3 DEPTH 2.4'
12" X 38" R.C.C.P.S.S. REQD.

STA. 11+96 LT. INLET TYPE 1-F REQD.
DIS. 1257.4 DEPTH 2.4'
12" X 70" R.C.C.P.S.S. REQD.

STA 4+30 TO 13+09
REMOVE NORTH HALF OF PRESENT PAVEMENT

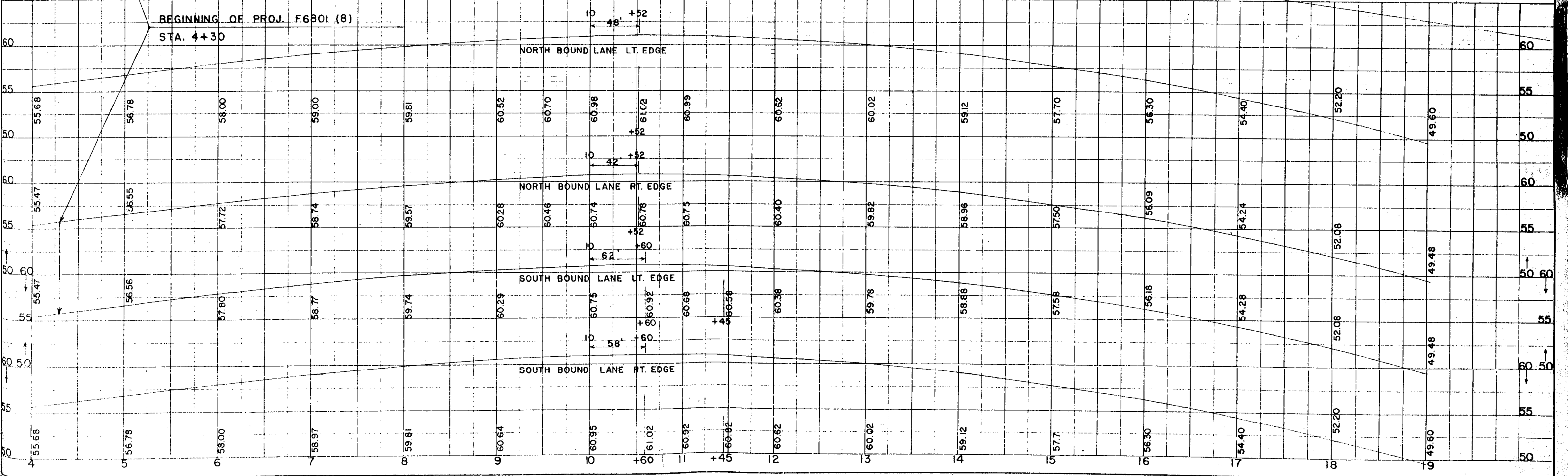
STA. 7+33 RT. RECONSTRUCT MANHOLE

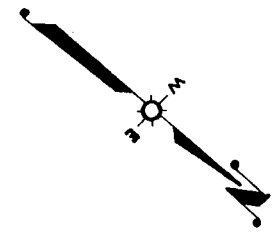
STA. 7+70 RT. INLET TYPE 1-A REQD.
DIS. 1256.7 DEPTH 2.4'
12" X 54" R.C.C.P.S.S. REQD.

STA. 14+00 RT. INLET TYPE 1-F IN PLACE
DIS. 1255.7 DEPTH 2.4'
12" X 54" R.C.C.P.S.S. IN PLACE

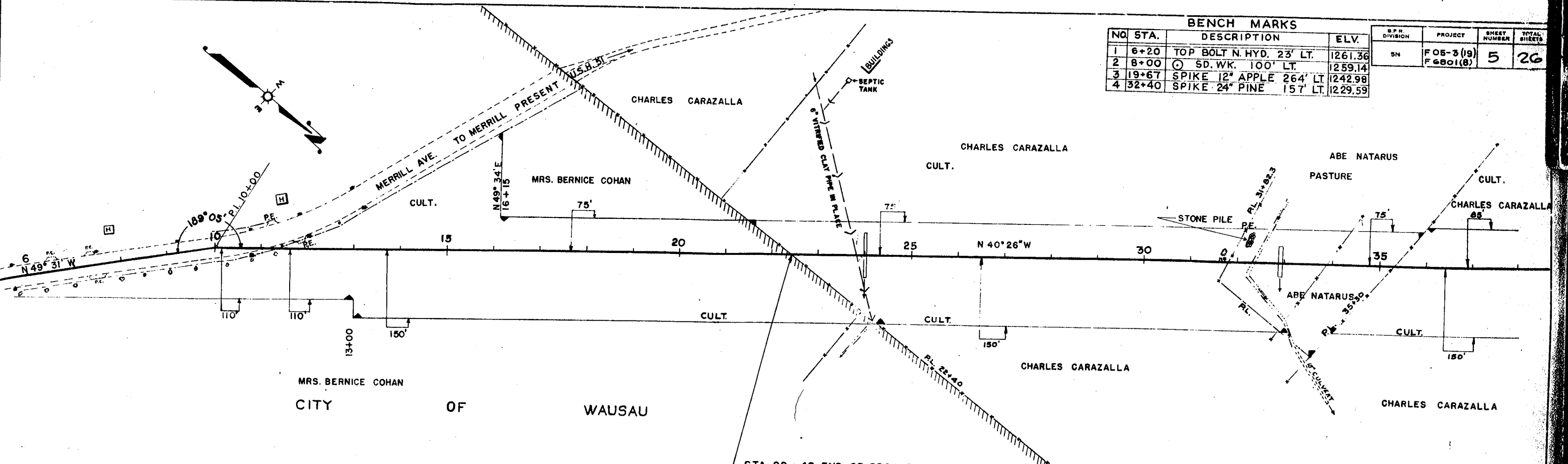
NET LENGTH OF CENTER LINE STA. 4+30 TO STA. 20+00 = 1570 LIN. FT.

BEGINNING OF PROJ. F6801 (8)
STA. 4+30

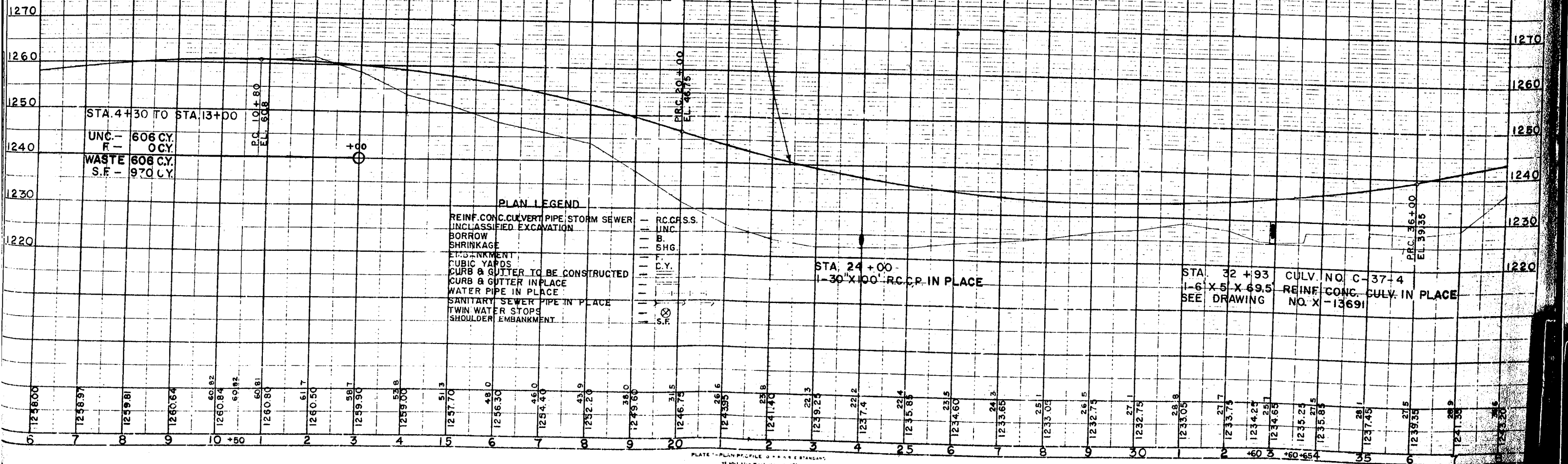




BENCH MARKS			S.P. DIVISION	PROJECT	SHEET NUMBER	TOTAL SHEETS	
NO.	STA.	DESCRIPTION					ELV.
1	6+20	TOP BOLT N. HYD. 23' LT.	1261.36	SN	F 05-3(19) F 6801(8)	5	26
2	8+00	SD. WK. 100' LT.	1259.14				
3	19+67	SPIKE 12" APPLE 264' LT.	1242.98				
4	32+40	SPIKE 24" PINE 157' LT.	1229.59				



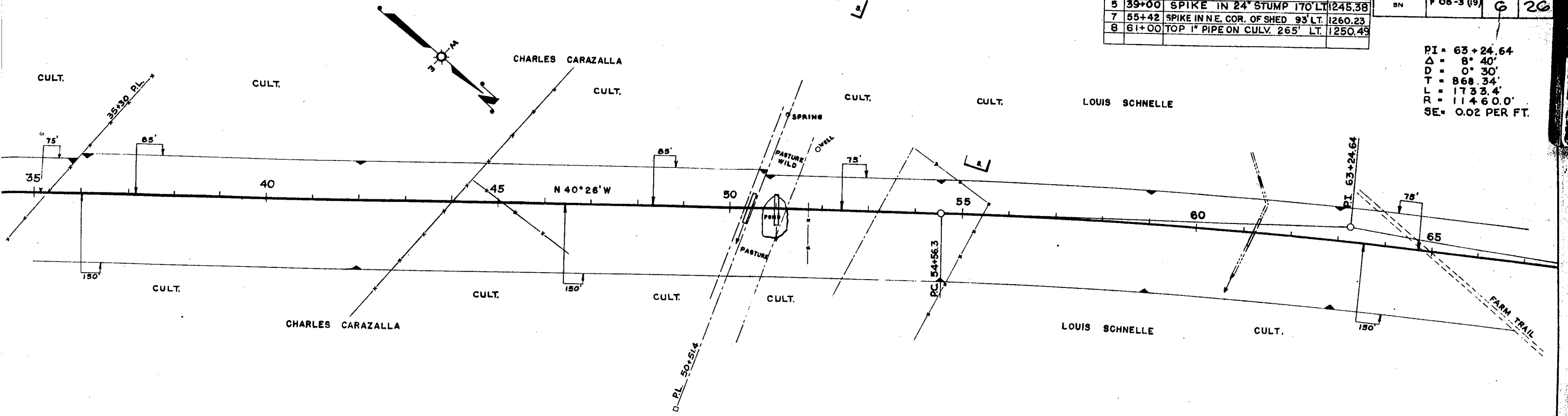
NET LENGTH OF CENTER LINE STA. 20+00 TO STA. 22+40 = 240 LIN. FT.
 NET LENGTH OF CENTER LINE STA. 22+40 TO STA. 38+00 = 1560 LIN. FT.



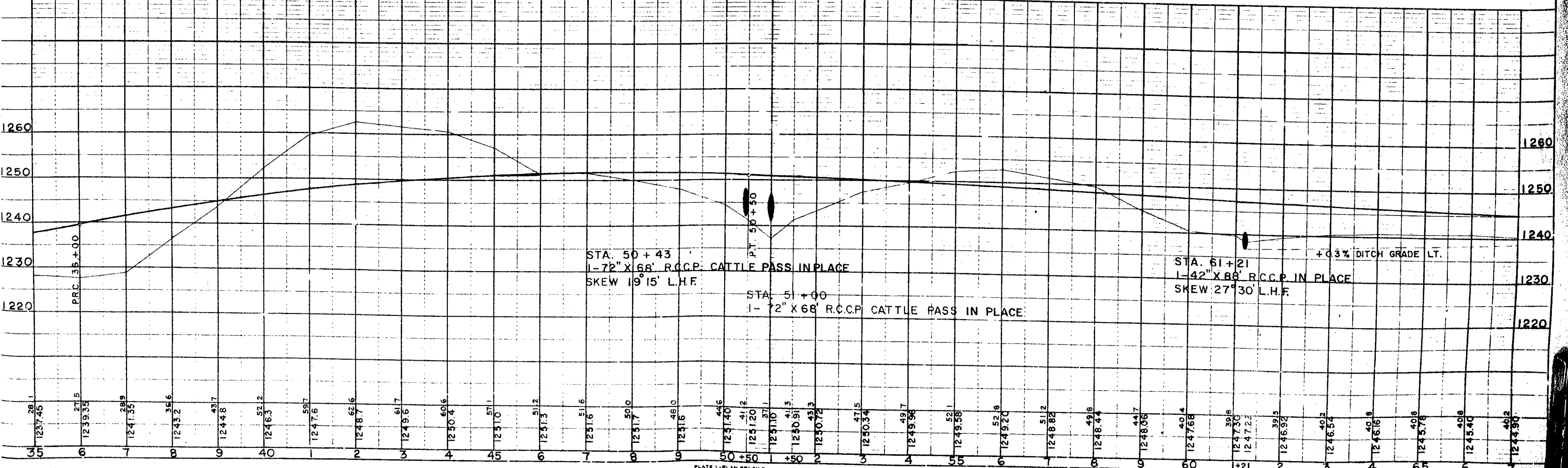
BENCH MARKS			
NO	STA.	DESCRIPTION	ELV.
5	39+00	SPIKE IN 24" STUMP 170' LT.	1245.38
7	55+42	SPIKE IN N.E. COR. OF SHED 93' LT.	1260.23
8	61+00	TOP 1" PIPE ON CULV. 265' LT.	1250.49

S.P.R. DIVISION	PROJECT	SHEET NUMBER	TOTAL SHEETS
BN	F 05-3 (9)	6	26

PI = 63+24.64
 Δ = 8° 40'
 D = 0° 30'
 T = 868.34'
 L = 1733.4'
 R = 11460.0'
 SE = 0.02 PER FT.



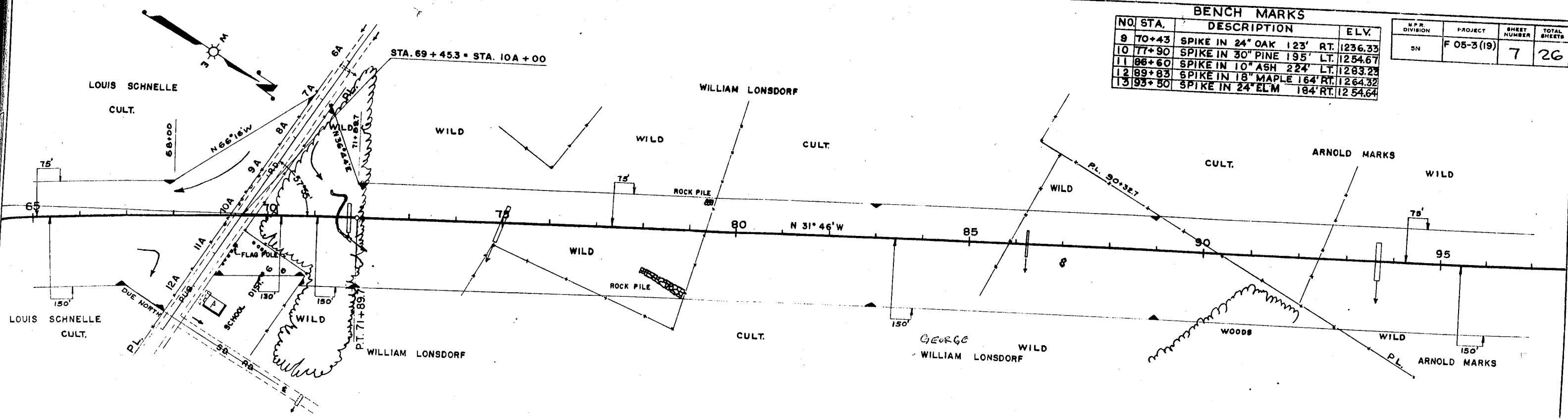
NET LENGTH OF CENTER LINE STA. 38+00 TO STA. 67+00 = 2900 LIN. FT.



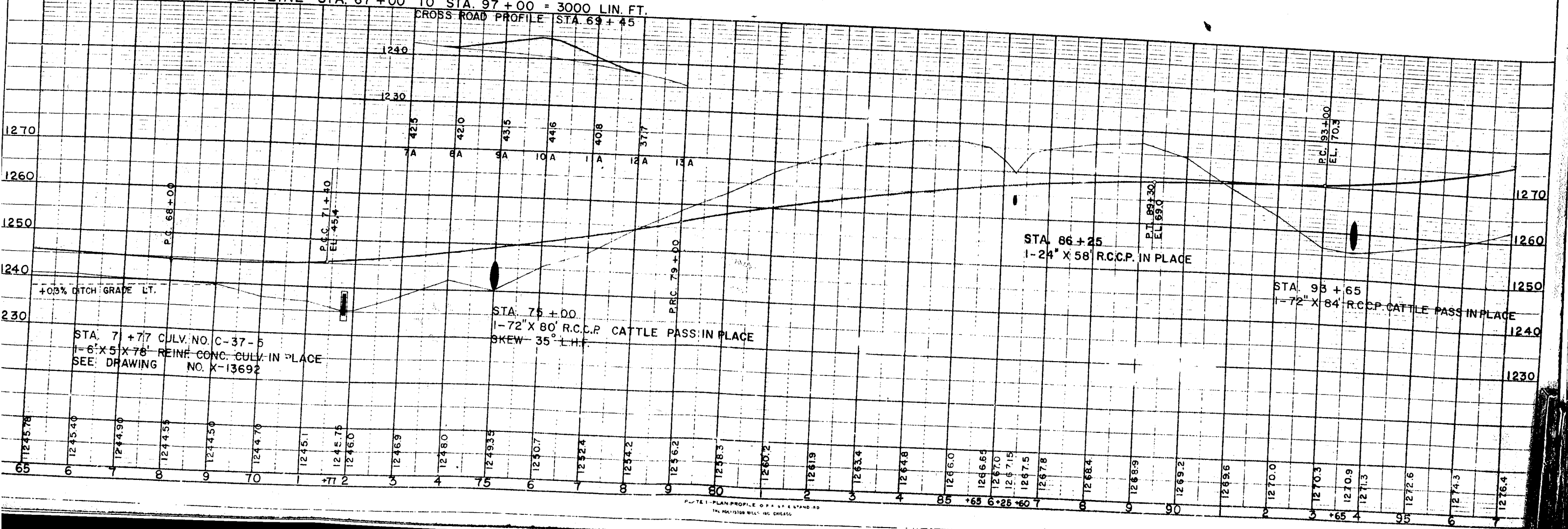
BENCH MARKS

NO.	STA.	DESCRIPTION	ELV.
9	70+43	SPIKE IN 24" OAK 123' RT.	1236.33
10	77+90	SPIKE IN 30" PINE 195' LT.	1254.67
11	88+60	SPIKE IN 10" ASH 224' LT.	1283.28
12	89+83	SPIKE IN 18" MAPLE 164' RT.	1264.32
13	93+80	SPIKE IN 24" ELM 184' RT.	1254.64

U.P.R. DIVISION	PROJECT	SHEET NUMBER	TOTAL SHEETS
SN	F 05-3 (19)	7	26



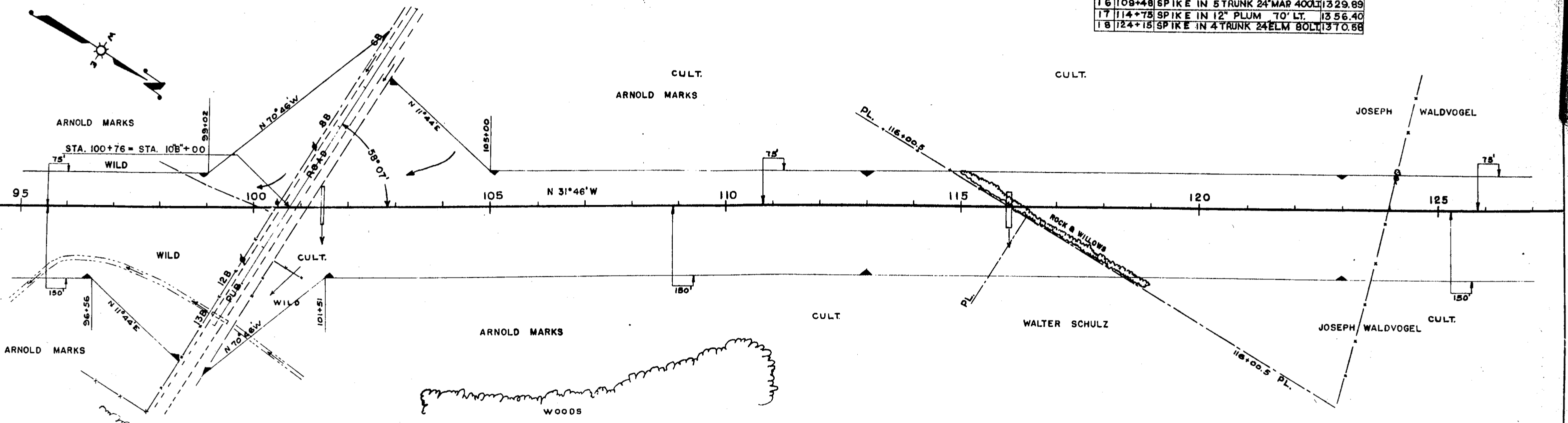
NET LENGTH OF CENTER LINE STA. 67+00 TO STA. 97+00 = 3000 LIN. FT.
 CROSS ROAD PROFILE STA. 69+45



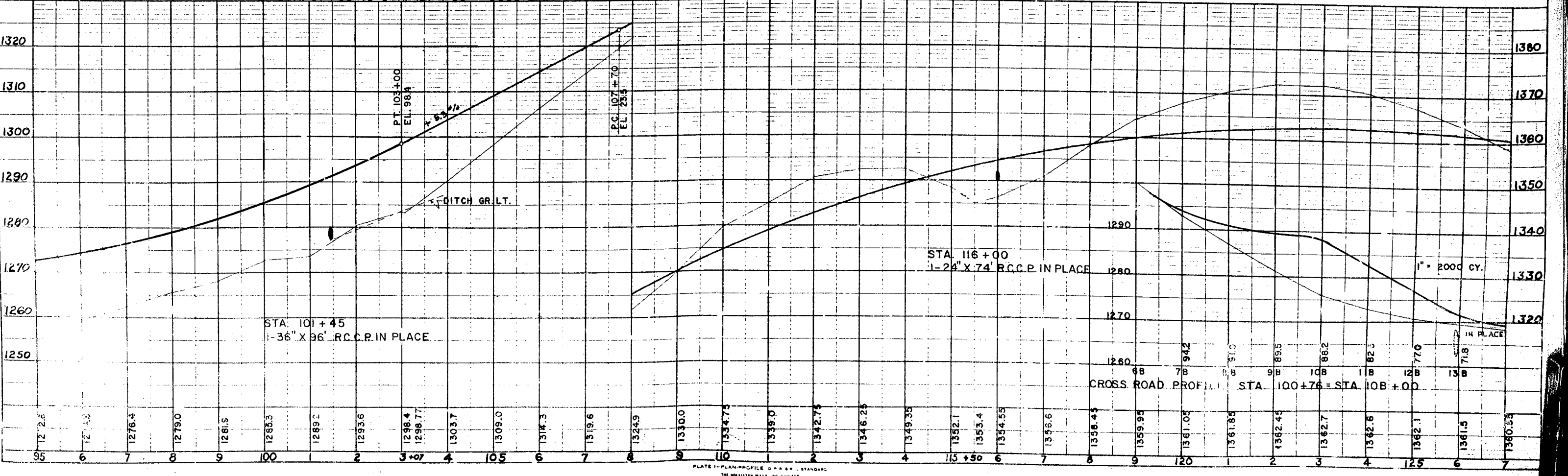
BENCH MARKS

NO.	STA.	DESCRIPTION	ELV.
14A	98+75	SPIKE IN 18" ELM 293 RT.	1267.22
15	103+00	SPIKE IN 36" MAPLE 270' LT.	1298.41
16	108+48	SPIKE IN 5" TRUNK 24" MAP 400'	1329.89
17	114+75	SPIKE IN 12" PLUM 70' LT.	1356.40
18	124+15	SPIKE IN 4" TRUNK 24" ELM 80'	1370.68

D.P.A. DIVISION	PROJECT	SHEET NUMBER	TOTAL SHEETS
5N	F05-3 (19)	8	26



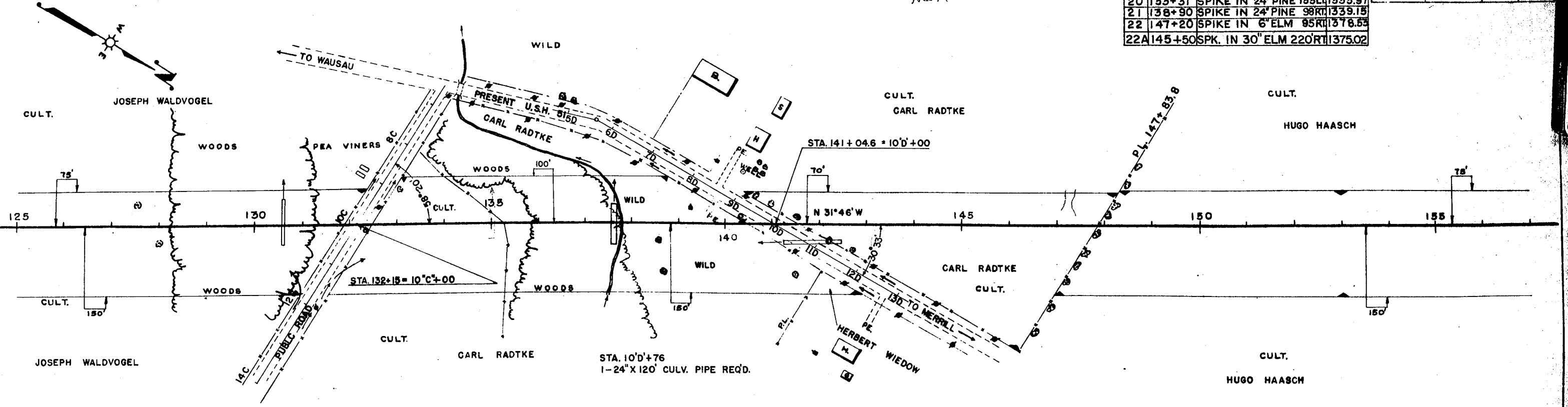
NET LENGTH OF CENTER LINE STA. 97+00 TO STA. 127+00 = 3000 LIN. FT.



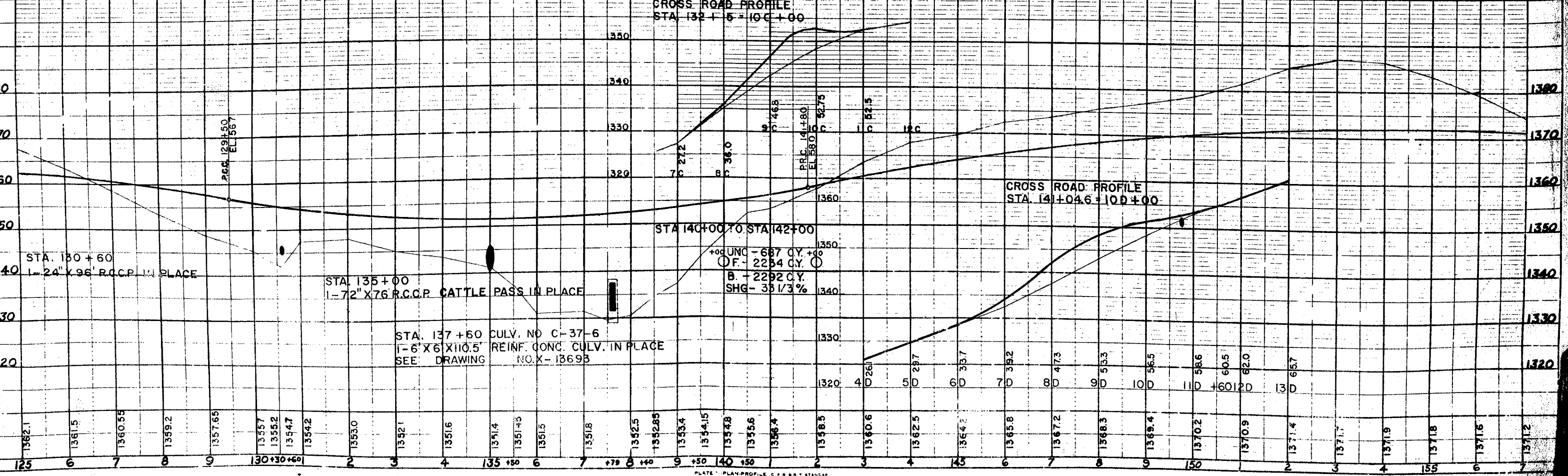
NE 1/4 Section 9

BENCH MARKS			
NO.	STA.	DESCRIPTION	E.L.V.
19	129+18	SPIKE IN 30' MAPLE 98RT	1350.85
20	133+31	SPIKE IN 24' PINE 155LT	1333.97
21	138+90	SPIKE IN 24' PINE 98RT	1339.15
22	147+20	SPIKE IN 6" ELM 95RT	1376.55
22A	145+50	SPK. IN 30" ELM 220RT	1375.02

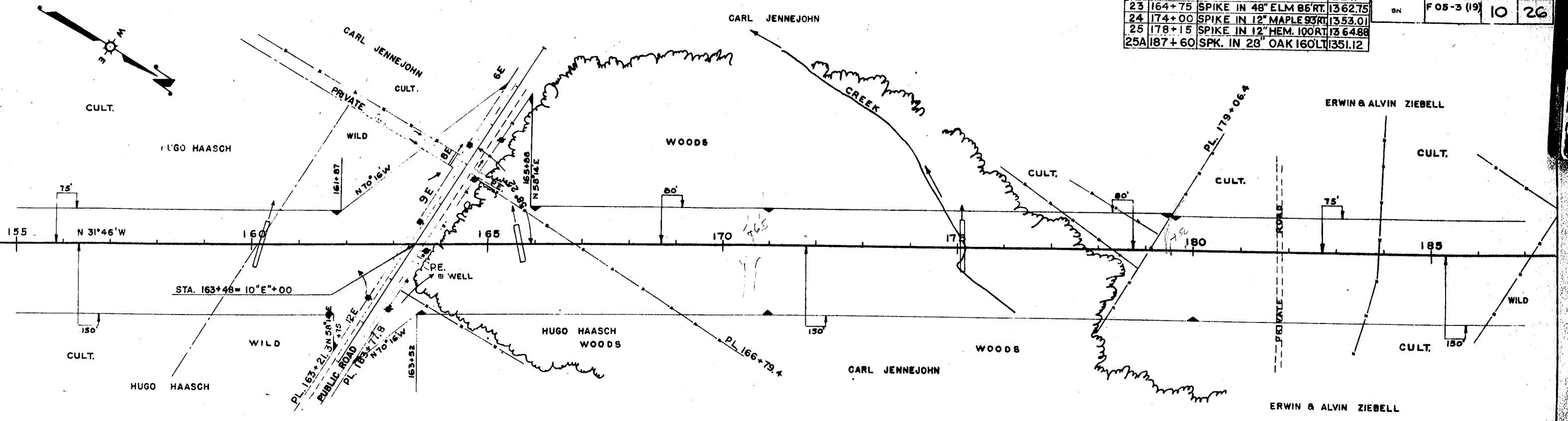
R.P.R. DIVISION	PROJECT	SHEET NUMBER	TOTAL SHEETS
5N	F 05-3(19)	9	26



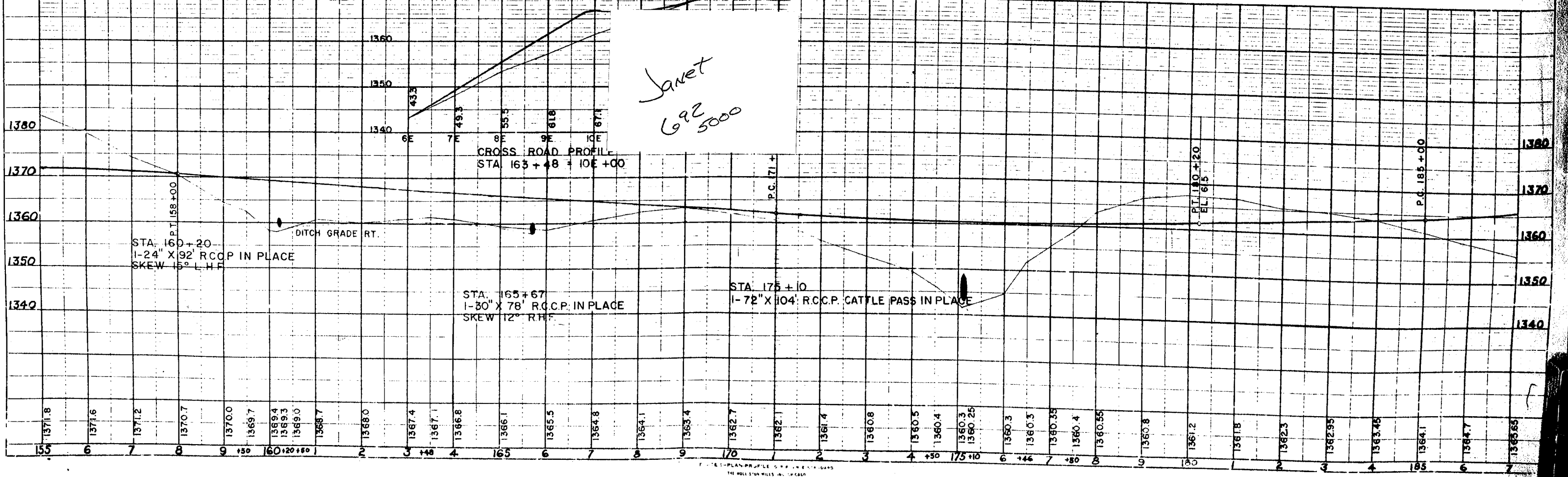
NET LENGTH OF CENTER LINE STA. 127+00 TO STA. 157+00 = 3000 LIN. FT.



BENCH MARKS				S.P.R. DIVISION	PROJECT	SHEET NUMBER	TOTAL SHEETS
NO.	STA.	DESCRIPTION	ELV.				
23	164+75	SPIKE IN 48" ELM 85 FT.	1362.75	SN	F 05-3 (19)	10	26
24	174+00	SPIKE IN 12" MAPLE 93 FT.	1353.01				
25	178+15	SPIKE IN 12" HEM. 100 FT.	1364.88				
25A	187+60	SPK. IN 28" OAK 160 FT.	1351.12				

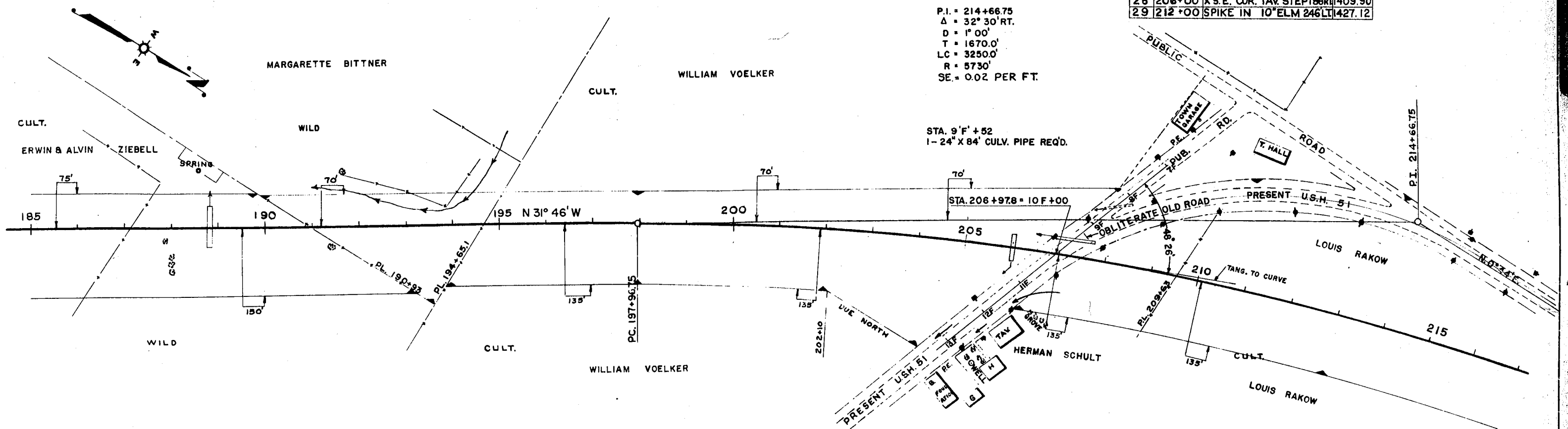


NET LENGTH OF CENTER LINE STA. 157+00 TO STA. 187+00 = 3000 LIN. FT.

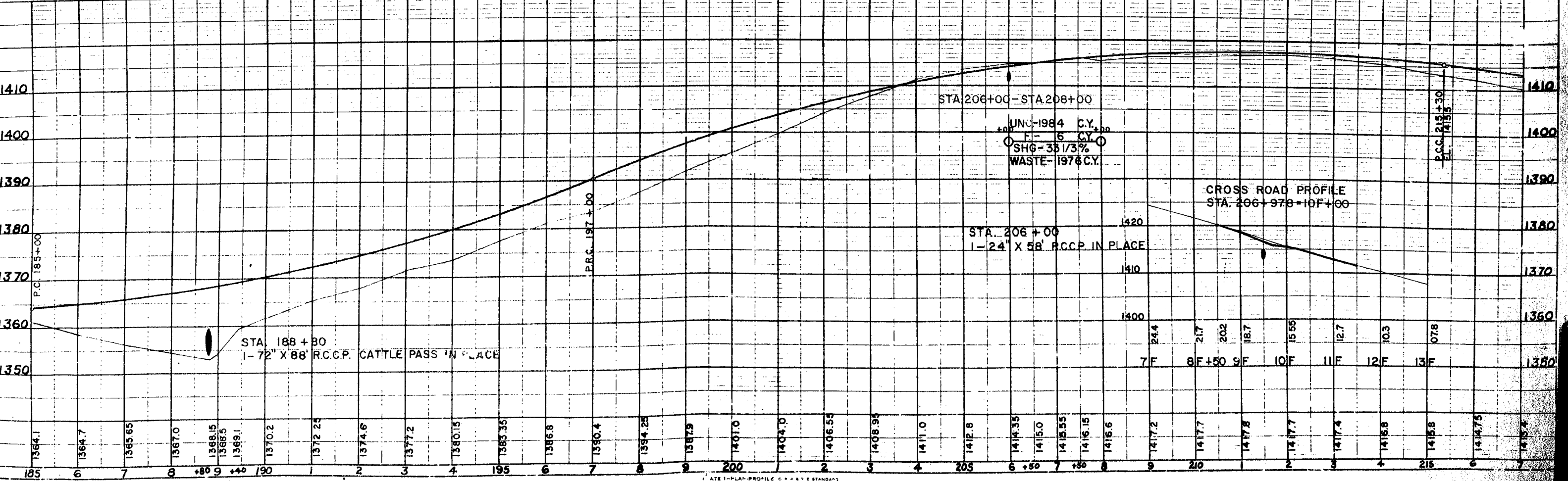


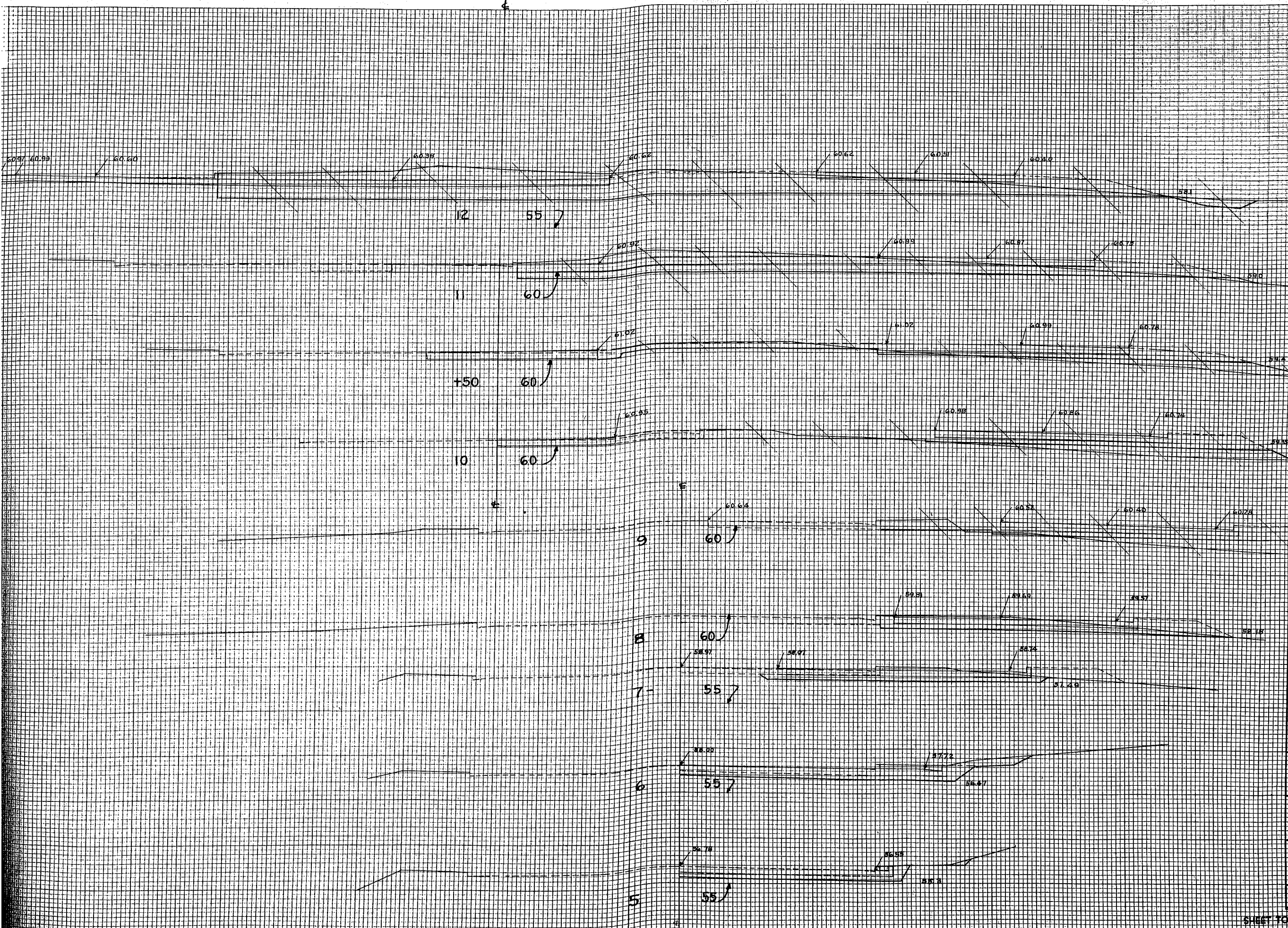
BENCH MARKS				S.P. DIVISION	PROJECT	SHEET NUMBER	TOTAL SHEETS
NO.	STA.	DESCRIPTION	ELV.				
26	191+50	SPIKE IN 40" ELM 98' LT.	1363.05	SN	F 05-3(9)	11	26
27	193+00	SPIKE IN 30" ELM 178' RT.	1378.56				
28	206+00	X S.E. COR. TAV. STEP 188' RT.	1409.90				
29	212+00	SPIKE IN 10" ELM 246' LT.	1427.12				

P.I. = 214+66.75
 Δ = 32° 30' RT.
 D = 1° 00'
 T = 1670.0'
 LC = 3250.0'
 R = 5730'
 SE = 0.02 PER FT.

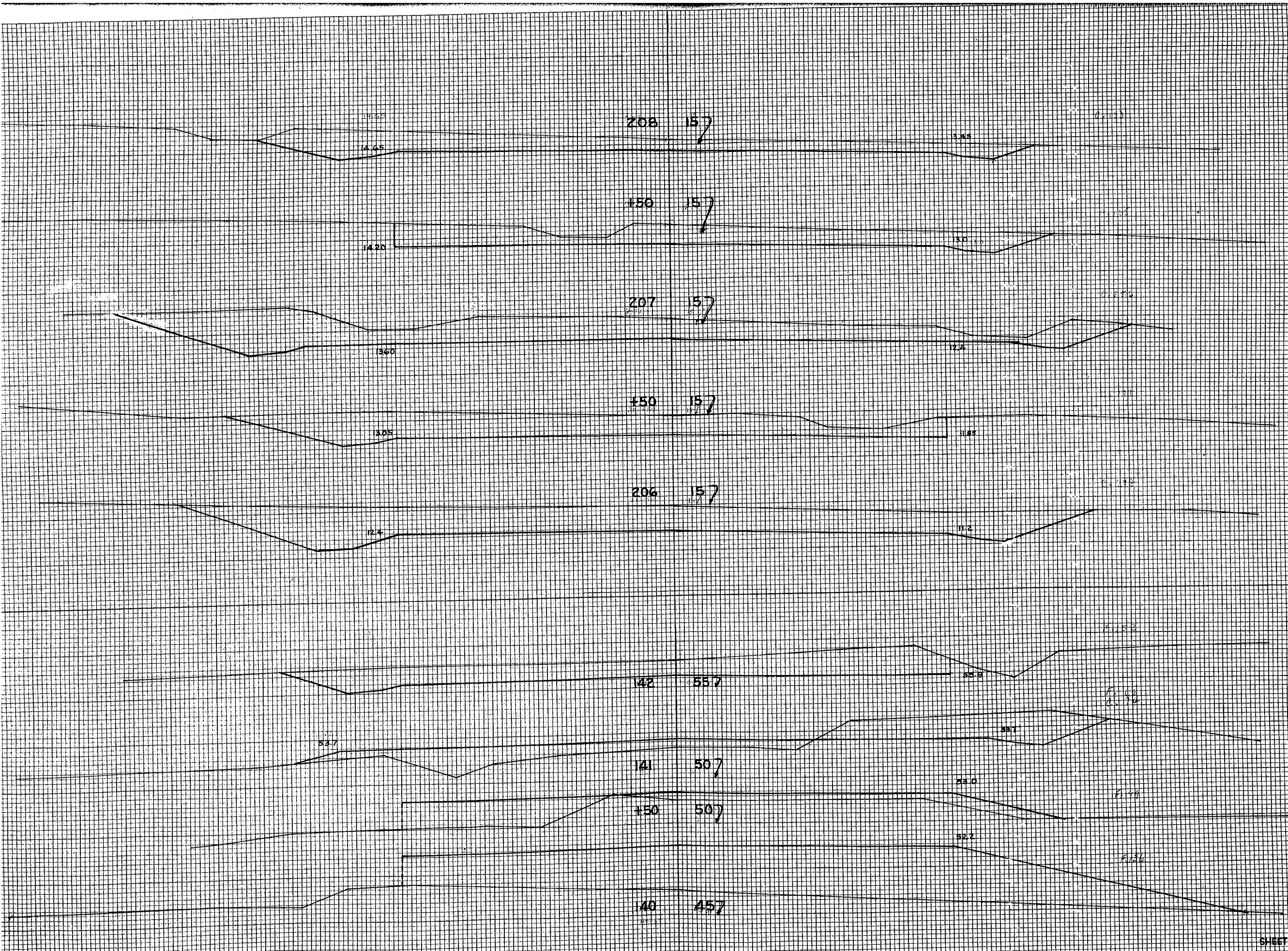


NET LENGTH OF CENTER LINE STA. 187+00 TO STA. 217+00 = 3000 LIN. FT.



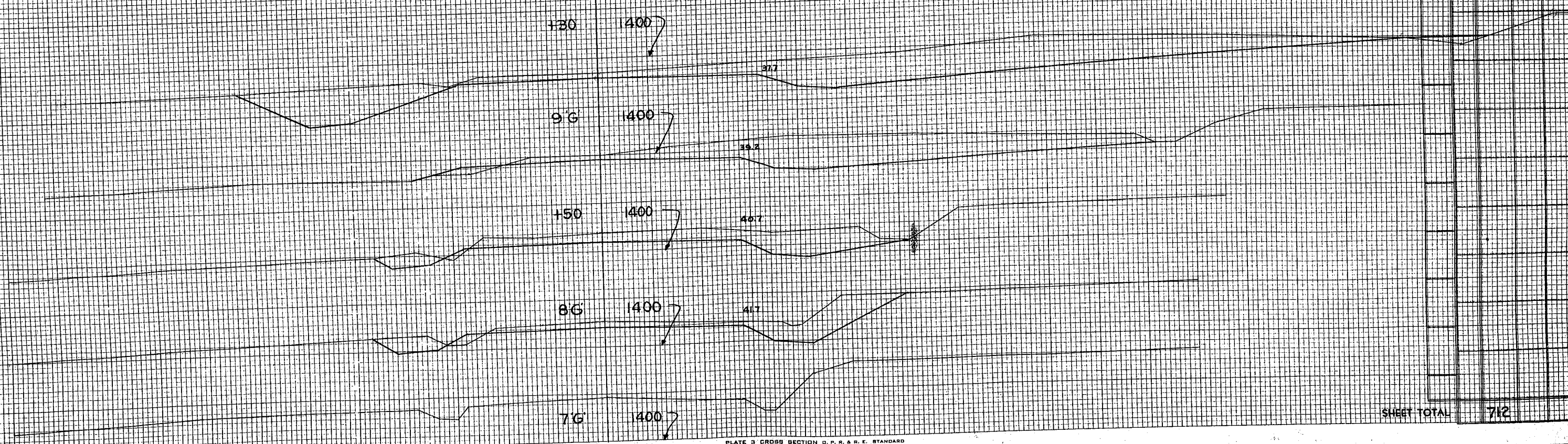


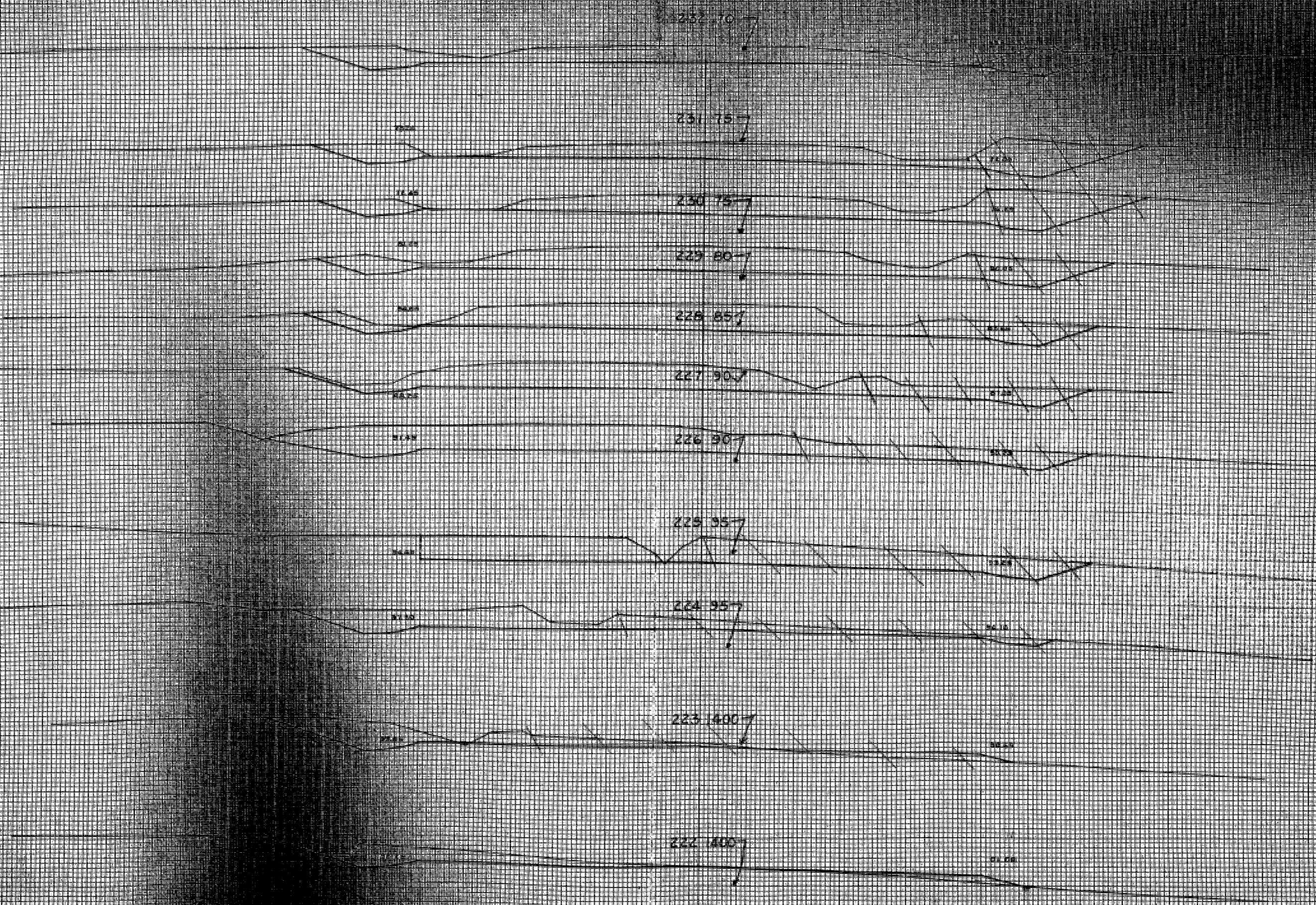
STATION	DISTANCE	YARDAGE	
		EXCAVATION	FILL
135			
5	135	43	0
6	107	95	0
7	107	95	0
8	89	117	0
9	30	89	0
10	30	89	0
11	17	59	0
12	35	59	0
13			
SHEET TOTAL		606	0



STATION	DISTANCE	YARDAGE	EXCAVATION	FT.
208	410	UNC.		217
150	150	0		152
141	141	69		121
207	142	419		121
150	206	470		0
206	150	402		0
150	207	361		0
142	150	248		0
141	141			
150	150			
40	40			
SHEET TOTAL		1919		49

STATION	DISTANCE	YARDAGE		TOTAL
		EXCAVATION	FILL	
170	163			0
130	181			2
90	69			4
150	169			4
80	102			4
70	89			4
SHEET TOTAL		712		4





232	70	231	75	230	75	229	80	228	85	227	90	226	95	225	95	223	100	222	100
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