

OUTAGAMIE  
166

INDEX OF SHEETS

- SHEET NO. 1 TITLE
- SHEET NO. 2 TYPICAL CROSS SECTIONS
- SHEET NO. 2 ESTIMATE OF QUANTITIES
- SHEET NO. 2 MISCELLANEOUS QUANTITIES
- SHEET NO. - RIGHT OF WAY PLAT
- SHEET NO. 3-9 PLAN AND PROFILE STA. 290+04.75 TO STA. 465+59.44
- SHEET NO. 10-10.5 STANDARD DETAILS
- SHEET NO. - DRAINAGE STRUCTURES
- SHEET NO. 11-25 CROSS SECTIONS



PLAN # 166

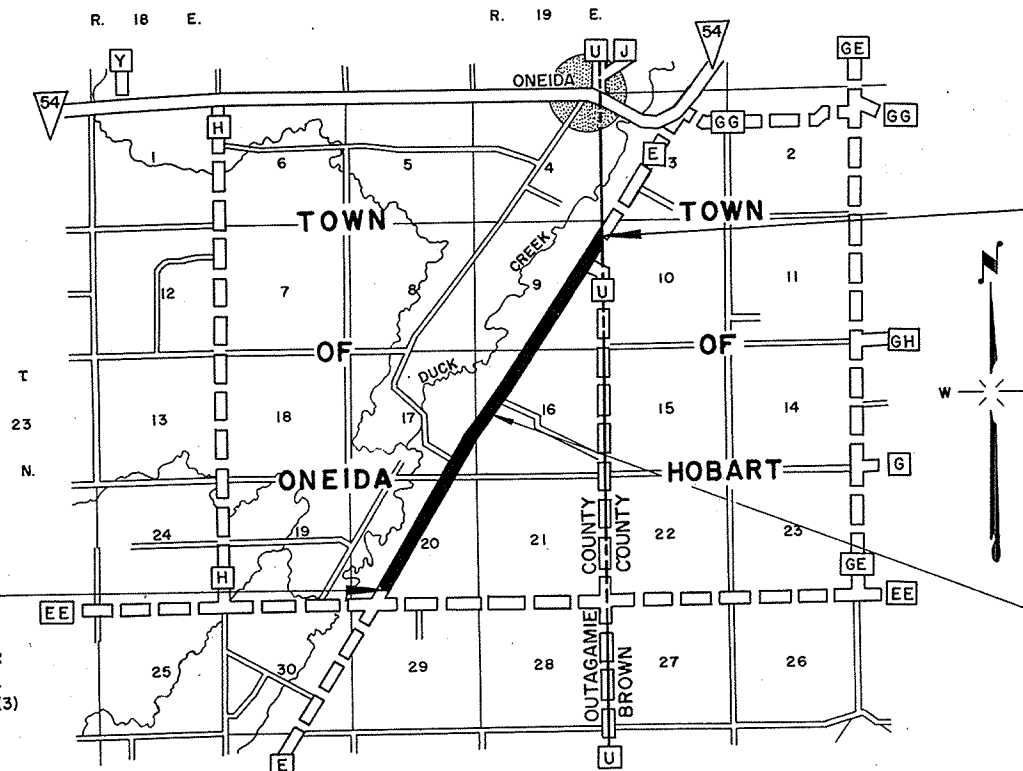
STATE OF WISCONSIN  
STATE HIGHWAY COMMISSION OF WISCONSIN

PLAN AND PROFILE OF PROPOSED  
C.T.H. "EE" — EAST CO. LINE  
C.T.H. "E"  
OUTAGAMIE COUNTY PROJECT S 0377(4)

COUNTY AND HIGHWAY	ROUTE AND SECTION	CLASS AND AGREEMENT		R.F.R. REGION DIVISION	SHEET NUMBER	TOTAL SHEETS
		STATE	FEDERAL			
44.6	377.0		11.4	4 WIS.	1	25

" AS BUILT PLAN "  
(NO CHANGE)

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



STA. 465+59.44 END  
PROJECT S 0377(4)  
1,368 FEET N. 32°-39' E. OF THE  
SOUTHWEST CORNER OF CLAIM  
NUMBER 121 T. 23 N., R. 19 E.

STA. 290+04.75 BEGIN  
PROJECT S 0377(4)  
1,443 FEET WEST OF AND 307 FEET  
NORTH OF THE SOUTH ONE QUARTER  
CORNER OF SECTION 20, T. 23 N., R. 19 E.  
= STA. 290+04.75 END PROJ. S0377(2)(3)

EQUATION:  
STA. 380+30.88 BACK =  
STA. 380+31.38 AHEAD

CONVENTIONAL SIGNS

- |                                |                                       |
|--------------------------------|---------------------------------------|
| STATE LINE.....                | CULVERTS IN PLACE.....                |
| COUNTY LINE.....               | CULVERTS REQUIRED.....                |
| TOWNSHIP OR RANGE LINE.....    | DROP INLET.....                       |
| SECTION LINE.....              | POWER POLE.....                       |
| NEW RIGHT OF WAY LINE.....     | TELEPHONE OR TELEGRAPH POLE.....      |
| PRESENT RIGHT OF WAY LINE..... | RIGHT OF WAY MARKERS.....             |
| WIRE FENCE { WOVEN.....        | REFERENCE STAKE FOR HUBS ONLY.....    |
| { BARBED.....                  | MARSH.....                            |
| LOT LINE.....                  | HEDGE.....                            |
| CORPORATE OR CITY LIMITS.....  | TREES.....                            |
| PROPERTY LINE..... P.L. + 32.6 | GROUND ELEVATION..... DATUM LINE 73.9 |
| TRAVELED WAY OR P.E.....       | GRADE ELEVATION..... DATUM LINE 73.16 |
| RAILROADS.....                 |                                       |
| BASE OR SURVEY LINE..... 30    |                                       |

LAYOUT

SCALE 1" = ONE MILE

TOTAL NET LENGTH OF CENTERLINE = 3.325 MI.

STATE HIGHWAY COMMISSION OF WISCONSIN MADISON, WIS.	
SURVEYOR: D.G.N.	NOTE BOOK: 543, 544
DISTRICT COMPUTER: H.P.K.	M. O. CHECKER: R.L.C.
DISTRICT CHECKER: C.W.M.	CORRECT:
DATE: 4/14/65	<i>[Signature]</i> DISTRICT ENGINEER
RECOMMENDED FOR APPROVAL:	
DATE: 4/20/65	<i>[Signature]</i> CHIEF DESIGN ENGINEER
APPROVED:	
DATE: 4/28/65	<i>[Signature]</i> STATE HIGHWAY ENGINEER
DEPARTMENT OF COMMERCE BUREAU OF PUBLIC ROADS	
APPROVED:	DATE
DIVISION ENGINEER	

E-8

E-8

E-8

S0377(4) E-8

# ESTIMATE OF QUANTITIES

CONTRACT NO. 1 & 2

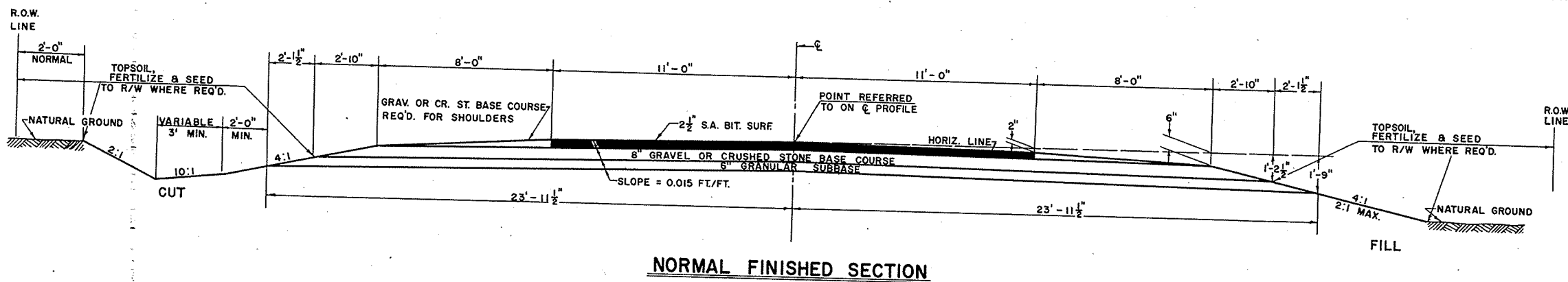
B.P.R. REGION	PROJECT	SHEET NO.	TOTAL SHEETS
4	S 0377(4)	2	25

THIS PROJECT IS TO BE EXECUTED UNDER THE STANDARD SPECIFICATIONS FOR ROAD AND BRIDGE CONSTRUCTION OF THE STATE HIGHWAY COMMISSION OF WISCONSIN - EDITION OF 1963 APPROVED OCTOBER 16, 1963, FEDERAL AID REQUIRED CONTRACT PROVISIONS APPROVED OCTOBER 29, 1963, AND SPECIAL PROVISIONS AS ATTACHED TO PROPOSALS.

CONTRACT NO.	STATION TO STATION	NET LENGTH OF CENTER LINE	CLEARING	GRUBBING	UNCLASSIFIED EXCAVATION	GRANULAR SUBBASE COURSE	FINISHING ROADWAY	BITUM. MATERIAL FOR PRIME COAT	BITUM. MATERIAL FOR SURFACE COURSE	CLASS III			MORTAR RUBBLE DITCH CHECKS	MARKER POSTS	LAND-MARK REFER. MONUMENTS	CALCIUM CHLORIDE SURF. TREATMENT	SALVAGED TOPSOIL	FERTILIZER	SEEDING	CONCRETE CURB & GUTTER 30-INCH TYPE "D"	CONCRETE SURFACE DRAINS	PLACING SINGLE AGGREGATE BITUM. SURFACE	PRODUCING & HAULING SINGLE AGGREGATE BITUM. SURFACE	GRAVEL OR CRUSHED STONE BASE COURSE	SHAPING AND COMPACTING GRAVEL OR CRUSHED STONE BASE COURSE	
										18"	24"	30"														
										52003	52005	52007														
	ITEM NO.		20102	20105	20503	21201	21301		40202	40602																
	UNIT	LIN. FT.	IN. DIA.	IN. DIA.	CU. YDS.	CU. YDS.	L. S.		GAL.	TON	LIN. FT.	LIN. FT.	LIN. FT.	CU. YDS.	EACH	EACH	TON	SQ. YD.	CWT.	SQ. YD.	LIN. FT.	CU. YDS.	TON	TON	TON	TON
1	290+04.75 - 465+59.44	17,554.19	1,900	1,930	39,026	17,200	1				2,166	790	68	35	27	4	40	81,600	80	89,400	454	4				
2	290+04.75 - 465+59.44	17,554.19																								38,000
<b>TOTALS</b>		17,554.19	1,900	1,930	39,026	17,200	1				2,166	790	68	35	27	4	40	81,600	80	89,400	454	4			38,000	38,000

NO FEDERAL PARTICIPATION NOT A PART OF THIS CONTRACT.

S.A.BIT. SURFACE IS NOT A PART OF THIS PROJECT.



**NORMAL FINISHED SECTION**

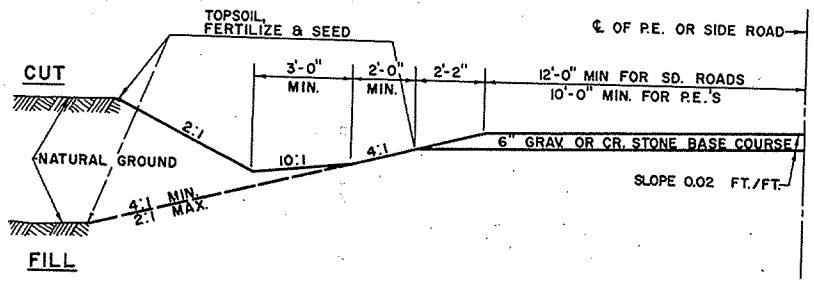
**GENERAL NOTES**

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

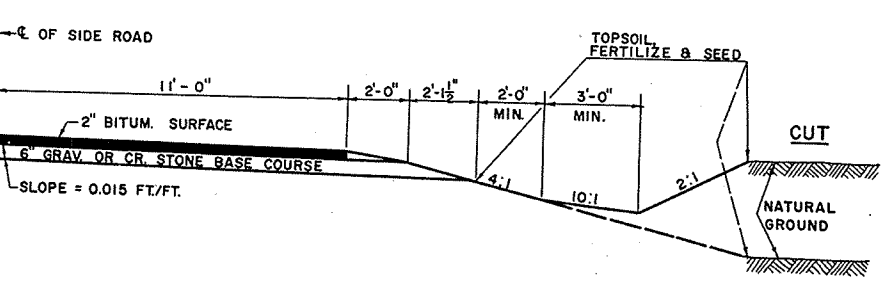
WHEN THE QUANTITY OF THE ITEMS OF SUBBASE, BASE OR SURFACE COURSE IS MEASURED FOR PAYMENT BY THE TON OR CUBIC YARD, THE DEPTH OR THICKNESS OF THE COURSE SHOWN ON THE PLANS IS APPROXIMATE AND THE ACTUAL THICKNESS WILL DEPEND ON THE DISTRIBUTION OF THE MATERIAL AS DIRECTED BY THE ENGINEER.

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

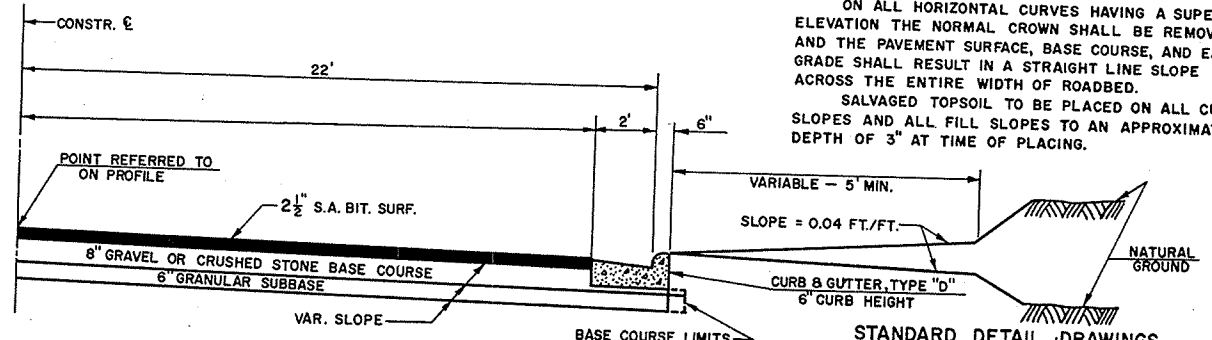
SALVAGED TOPSOIL TO BE PLACED ON ALL CUT SLOPES AND ALL FILL SLOPES TO AN APPROXIMATE DEPTH OF 3" AT TIME OF PLACING.



**1/2 SECTION FOR GRAVEL SURF. SD. RDS. & PE'S.**



**1/2 SECTION FOR SD. RDS. WITH BITUM SURFACE**



**1/2 TYPICAL FINISHED SECTION**

STA. 350+50 - STA. 352+50 RT.  
STA. 361+60 - STA. 364+14 LT.

CULVERT PIPE - CLASS III			
STATION	LOCATION	DIA.	LIN. FT.
307+70	℄	24"	74
335+84	℄	30"	68
352+97	℄	24"	64
355+55	℄	24"	72
364+40	℄	18"	70
365+60	PE. LT.	18"	40
373+87	℄	24"	78
388+68	℄	24"	74
396+69	℄	24"	70
411+20	℄	24"	64
417+83	℄	24"	70
433+88	℄	24"	64
450+08	℄	24"	78
461+01	℄	24"	82
63 PE. PIPES 18" X 32'			2,016
363+50	PE. LT.	18"	40

**STANDARD DETAIL DRAWINGS**

CONC. CURB & GUTTER	3	1.1.7
MARKER POSTS	7	1.3.4
CONSTRUCTION BARRICADE	7	4.1.4
DITCH CHECKS, M.R.M. & SOD	8	1.3.1
DESIGN & LAYOUT DETAILS FOR SD. RDS.	9	1.1.4
LANDMARK REFERENCE MONUMENTS	12	1.1.2

MARKER POSTS		
LOCATION		EACH
FOR CULVERT PIPES		24
FOR SHOULDER DELINEATION STA. 449+58-450+58 LT.		3

GRAVEL OR CR. STONE BASE COURSE	
LOCATION	TON
MAINLINE	35,660
SIDE ROADS & PE'S	2,340

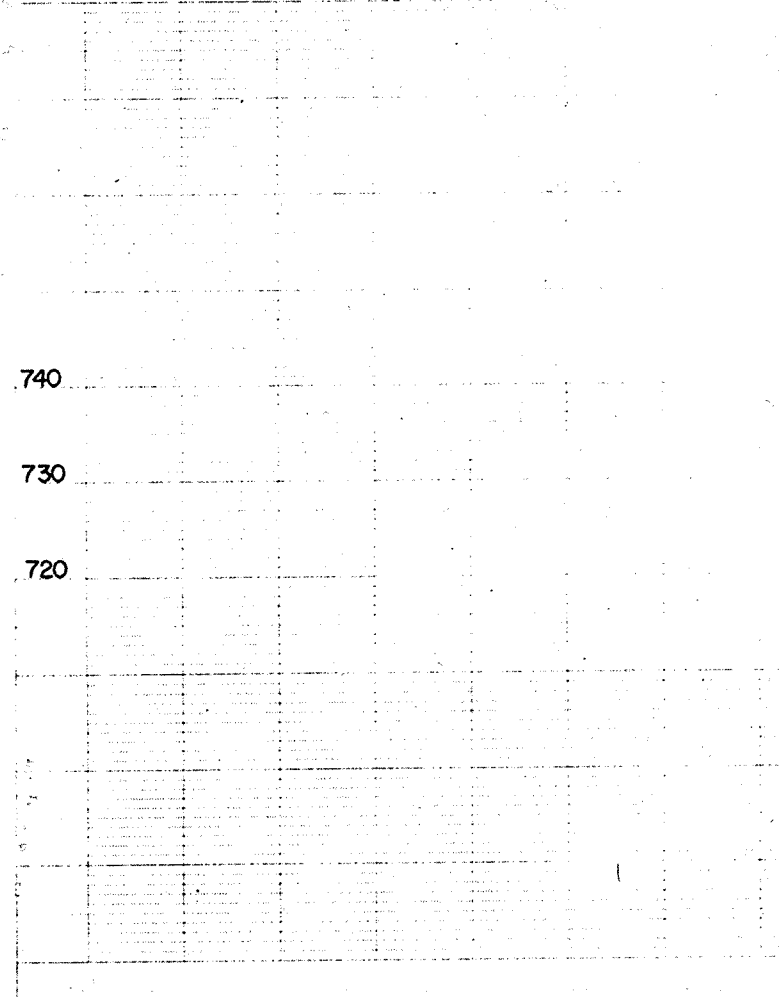
TYPICAL CROSS SECTION  
FOR  
**22' BITUMINOUS SURFACE**  
AND  
MISCELLANEOUS CONSTRUCTION DETAILS

SCALE VARIABLE

B. P. R. DIVISION	PROJECT	SHEET NUMBER	TOTAL SHEETS
	S 0377(4)	3	25

NO.	STATION	DESCRIPTION	ELEV.
46	287+18	SPIKE IN 36" BOX ELDER 140' LT.	736.05
47	290+12	" " 12" PINE 100' LT.	735.41
48	296+05	" " 10" BOX ELDER 60' RT.	734.78
49	301+80	" " 8" MAPLE 80' LT.	733.80

STATION TO STATION	LIN. FT.
290+0475   300+00	995.25



**GENERAL NOTES**

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

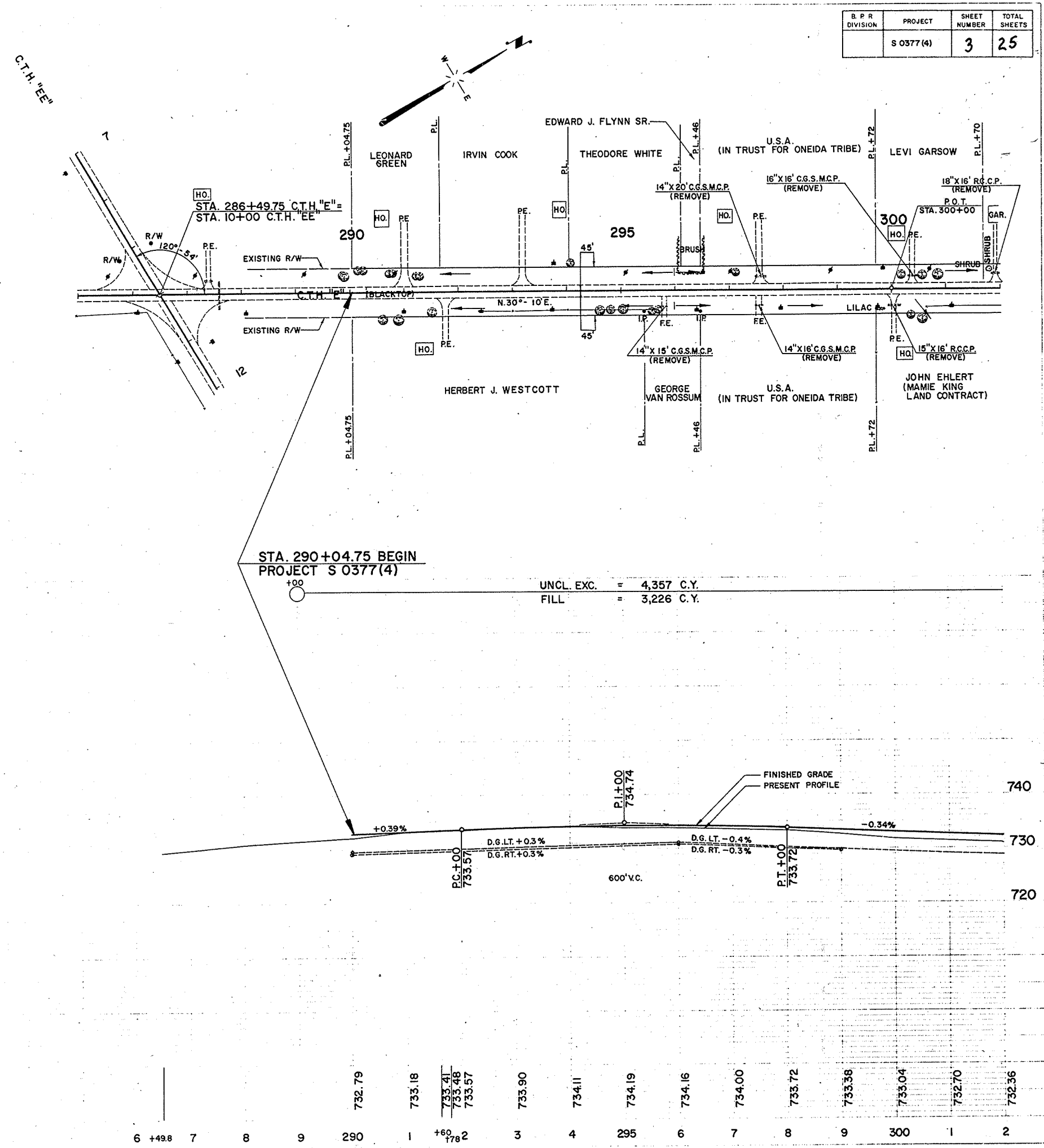
CUBIC YARDS OF FILL AS SHOWN ON THE PLAN SHEETS PERTAINS TO EMBANKMENT CONSTRUCTED FROM UNCLASSIFIED EXCAVATION WITH A SHRINKAGE ALLOWANCE OF 30% TO 46%.

THE EXACT LOCATION OF PE'S SHALL BE DETERMINED BY THE ENGINEER IN THE FIELD.

PRIVATE UTILITY COMPANIES SHALL MOVE OR ADJUST PRIVATELY OWNED UTILITIES WHICH INTERFERE WITH THE NEW CONSTRUCTION. SEE X-SEC. SHEETS FOR DITCH GRADES.

**LEGEND**

PE.	PRIVATE ENTRANCE
FE.	FIELD ENTRANCE
D.G.	DITCH GRADE
UNCL. EXC.	UNCLASSIFIED EXCAVATION
C.P.	CULVERT PIPE
PL.	PROPERTY LINE
V.C.	VERTICAL CURVE



STA. 290+04.75 BEGIN  
PROJECT S 0377(4)

UNCL. EXC. = 4,357 C.Y.  
FILL = 3,226 C.Y.

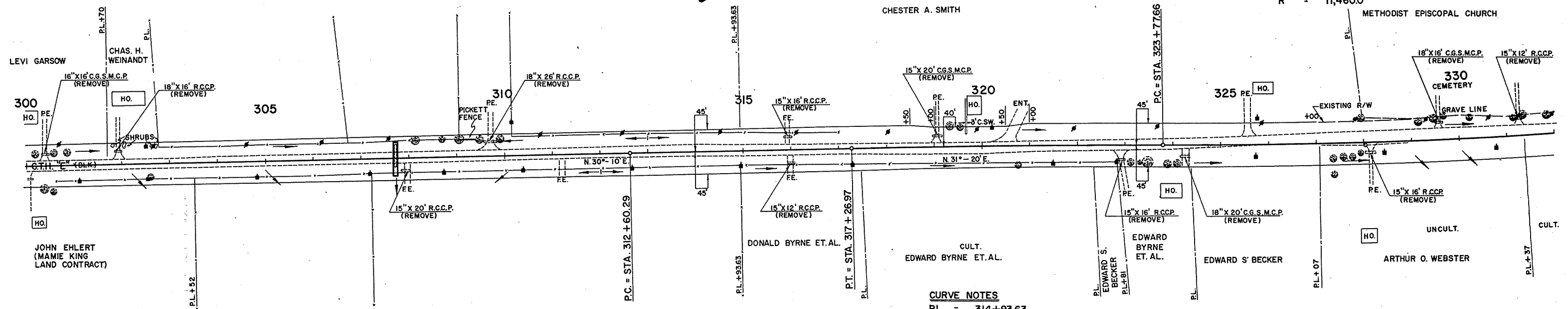
6	498	7	8	9	290	1	178	2	3	4	295	6	7	8	9	300	1	2	
					732.79	733.18	733.41	733.48	733.57	733.90	734.11	734.19	734.16	734.00	733.72	733.38	733.04	732.70	732.36

BENCH MARKS				
NO.	STATION	DESCRIPTION		ELEV.
49	301+80	SPIKE IN 8" MAPLE	80' LT.	733.80
50	309+15	" " 36" OAK	108' LT.	732.64
51	317+28	PT. MK. NO. BOLT BASE OF PUMP	118' RT.	727.99
52	323+60	" " SW. COR. BOT. STEP	75' RT.	721.89
53	328+60	SPIKE IN 18" ELM	120' LT.	718.49

EDWARD J. NEHRING

B. P. N. DIV. SIGN	PROJECT	SHEET NUMBER	TOTAL SHEETS
	S 0377 (4)	4	25

**CURVE NOTES**  
 P.I. = 328+03.70  
 Z = 175°-44'-30"  
 Δ = 4°-15'-30"  
 D = 0°-30'  
 T = 426.04'  
 L = 851.66'  
 R = 11,460.0'

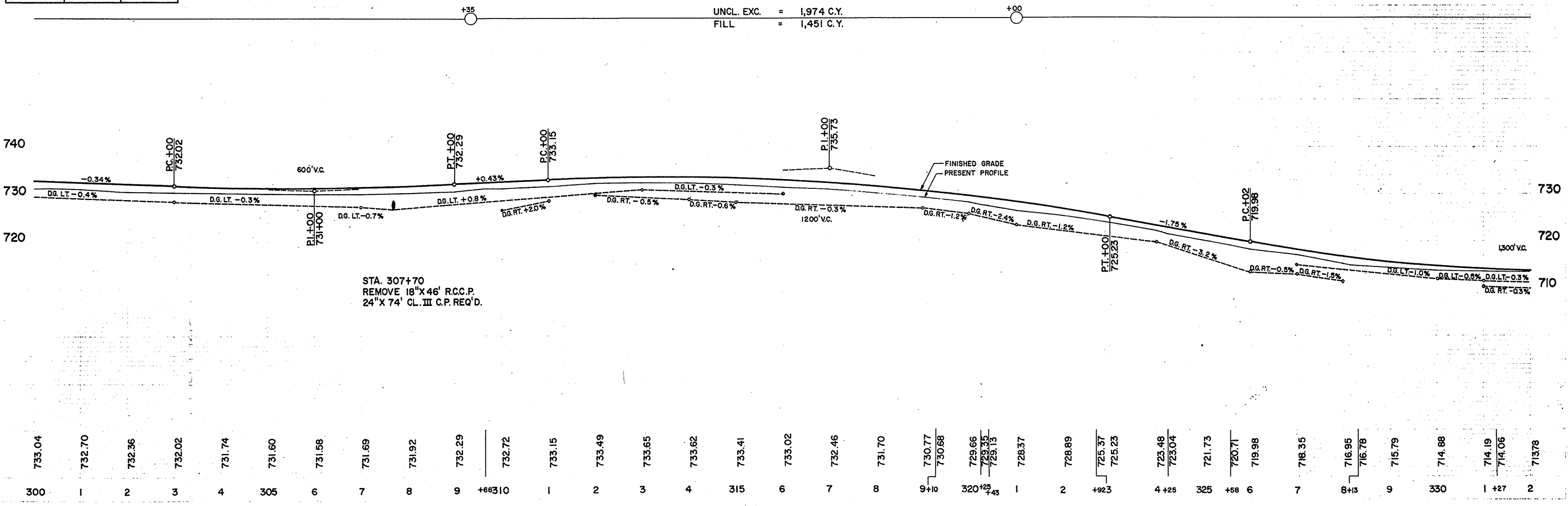


**CURVE NOTES**  
 P.I. = 314+93.63  
 Z = 181°-10'  
 Δ = 1°-10'  
 D = 0°-15'  
 T = 233.34'  
 L = 466.68'  
 R = 22,920.0'

NET LENGTH OF CENTERLINE		
STATION TO STATION	LIN. FT.	
300+00	330+00	3,000

EDWARD J. NEHRING

UNCL. EXC. = 1,974 C.Y.  
 FILL = 1,451 C.Y.



STA. 307+70  
 REMOVE 18" X 46" R.C.C.P.  
 24" X 74" CL. III C.P. REQ'D.

733.04	732.70	732.36	732.02	731.74	731.60	731.58	731.69	731.92	732.29	732.72	733.15	733.49	733.65	733.62	733.41	733.02	732.46	731.70	730.77	730.66	729.66	729.35	729.13	728.37	728.89	725.37	725.23	723.48	723.04	721.73	720.71	719.98	718.35	716.95	716.78	715.79	714.88	714.19	714.06	713.78
300	1	2	3	4	305	6	7	8	9	+66310	1	2	3	4	315	6	7	8	9+10	320+25	+43	1	2	+923	4+25	325	+58	6	7	7	8+13	9	330	1	+27	2				



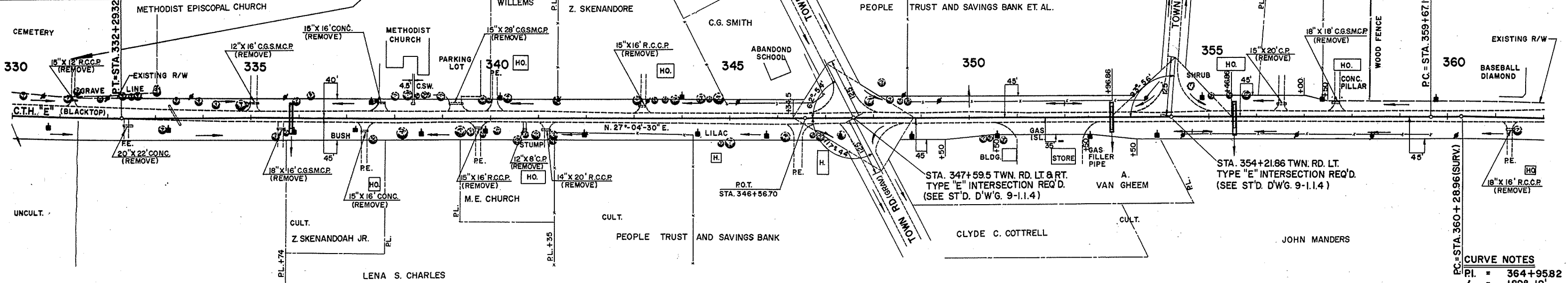
B.P.R. DIVISION	PROJECT	SHEET NUMBER	TOTAL SHEETS
	S 0377 (4)	5	25

### BENCH MARKS

NO.	STATION	DESCRIPTION	ELEV.
54	334+25	SPIKE IN 16" PINE 70' LT.	715.41
55	338+65	PT. MK. S.E. COR. CONC. STEP 80' LT.	717.23
56	344+98	SPIKE IN 20" APPLE 48' RT.	724.07
57	348+15	" " 36" ELM 60' LT.	729.05
58	351+95	PT. MK. N.W. COR. GAS ISL. 55' RT.	727.13
59	355+90	" " S.E. " GROTTO 100' LT.	730.48
60	360+60	SPIKE IN 12" APPLE 90' RT.	737.66

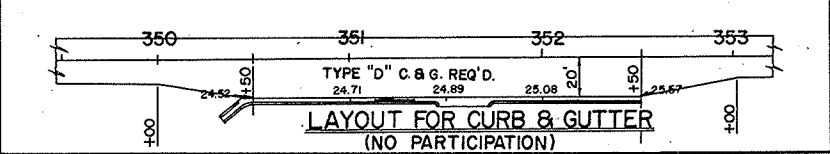
### CURVE NOTES

P.I. = 328+03.70  
 L = 175°-44'-30"  
 Δ = 4°-15'-30"  
 D = 0°-30'  
 T = 426.04'  
 L = 851.66'  
 R = 11460.00'



### NET LENGTH OF CENTERLINE

STATION TO STATION	LIN. FT.	
330+00	360+00	3,000

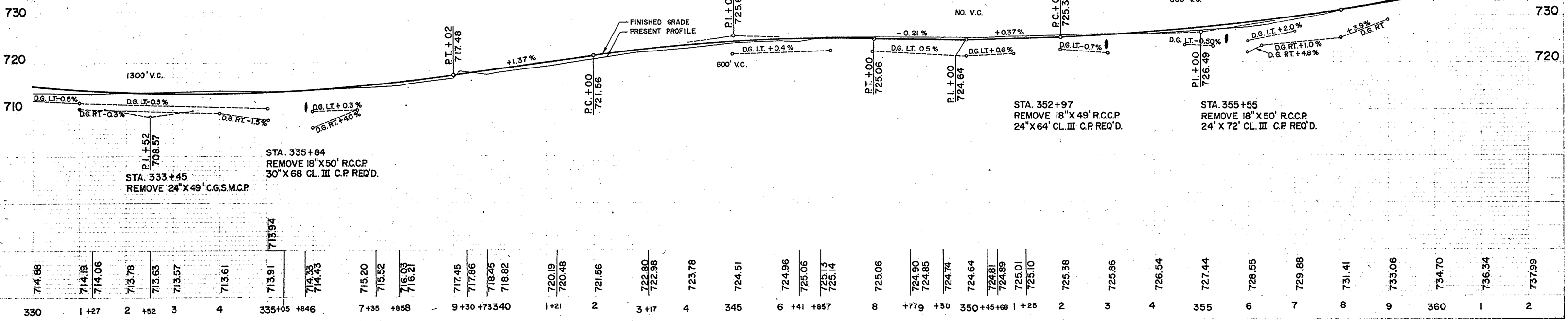
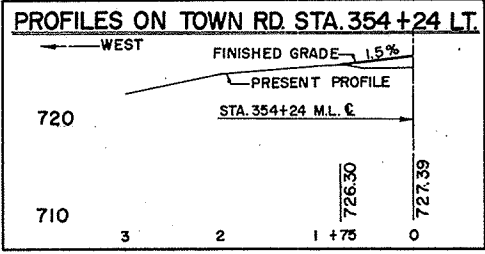
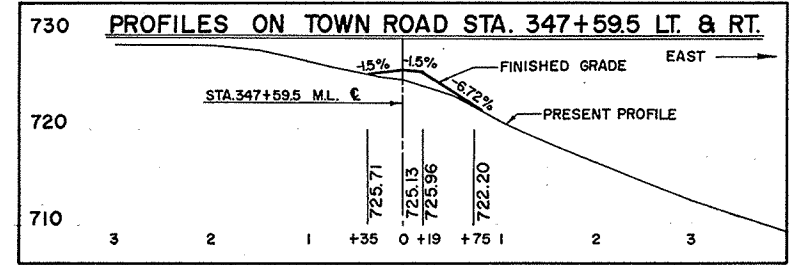


### CURVE NOTES

P.I. = 364+9582  
 L = 189°-19'  
 Δ = 9°-19'  
 D = 1°-00'  
 T = 466.86'  
 L = 931.67'  
 R = 5,730.00'

UNCL. EXC. = 4,841 C.Y.  
 FILL = 3,593 C.Y.

UNCL. EXC. = 5,724 C.Y.  
 FILL = 896 C.Y.  
 WASTE = 4,530 C.Y.



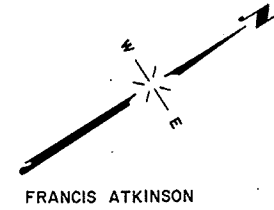
714.88	714.19	714.06	713.78	713.63	713.57	713.61	713.91	714.33	714.43	715.20	715.92	716.03	716.21	717.45	717.86	718.45	718.82	720.19	720.48	721.96	722.80	722.98	723.78	724.51	724.96	725.06	725.13	725.14	725.06	724.90	724.85	724.74	724.64	724.81	724.89	725.01	725.10	725.38	725.86	726.54	727.44	728.55	729.88	731.41	733.06	734.70	736.34	737.99
330	1+27	2	+52	3	4	335+05	+846	7+35	+858	9+30	+733	340	1+21	2	3+17	4	345	6+41	+857	8	+779	+80	350	+45	+68	1+25	2	3	4	355	6	7	8	9	360	1	2											



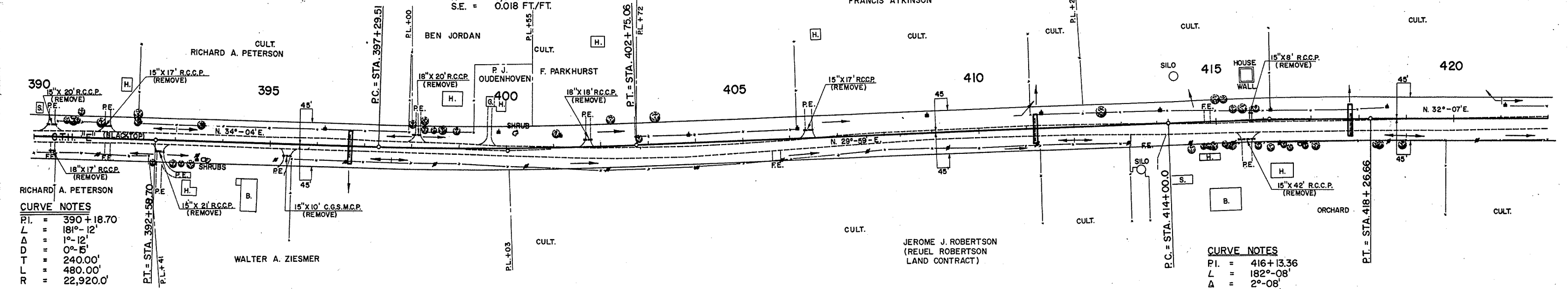
B.P.R. DIVISION	PROJECT	SHEET NUMBER	TOTAL SHEETS
	S 0377 (4)	7	25

BENCH MARKS			
NO.	STATION	DESCRIPTION	ELEV.
65	392+50	SPIKE IN 14" APPLE	45' RT. 758.15
66	398+00	" " 8" ASH	60' LT. 756.50
67	403+20	" " 18" ELM	51' LT. 752.37
68	415+33	" " 6" "	50' RT. 749.08

**CURVE NOTES**  
 P.I. = 400+02.40  
 L = 175°-54'-30"  
 Δ = 4°-05'-30"  
 D = 0°-45'  
 T = 272.89'  
 L = 545.55'  
 R = 7,640.0'  
 S.E. = 0.018 FT./FT.



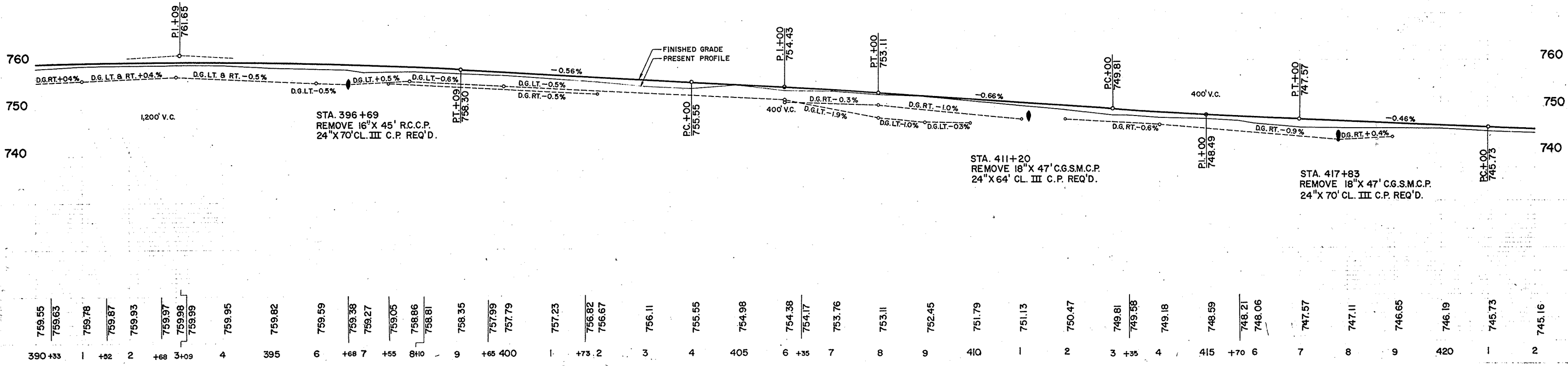
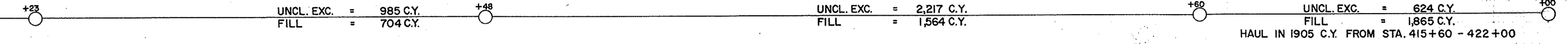
JEROME J. ROBERTSON  
 (REUEL ROBERTSON  
 LAND CONTRACT)



**CURVE NOTES**  
 P.I. = 390+18.70  
 L = 181°-12'  
 Δ = 1°-12'  
 D = 0°-5'  
 T = 240.00'  
 L = 480.00'  
 R = 22,920.0'

**CURVE NOTES**  
 P.I. = 416+13.36  
 L = 182°-08'  
 Δ = 2°-08'  
 D = 0°-30'  
 T = 213.36'  
 L = 426.66'  
 R = 11,460.0'

NET LENGTH OF CENTERLINE		
STATION TO STATION	LIN. FT.	
390+00	420+00	3,000.



1-54  
3-54  
D.C. M.

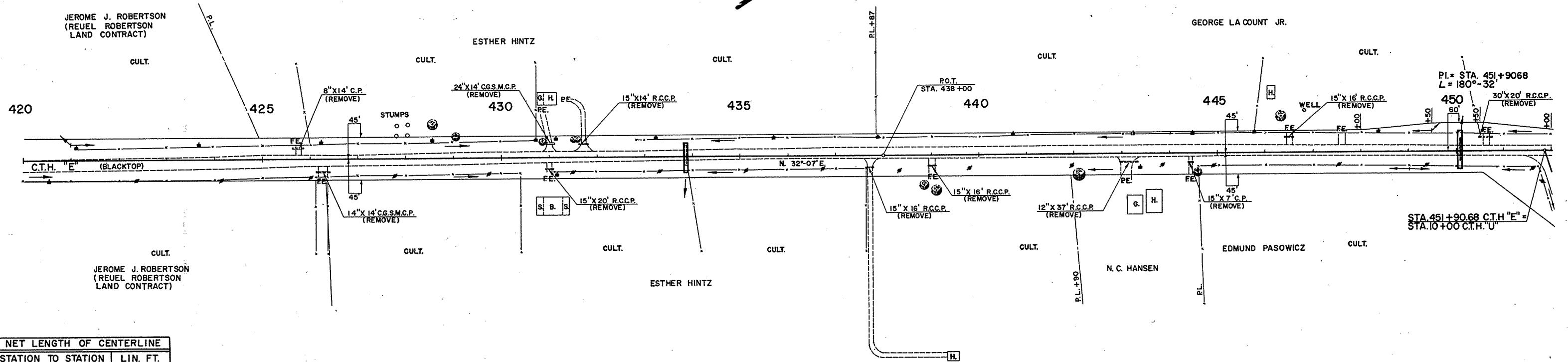
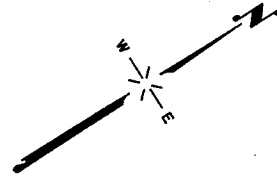
543

3-64  
1-64  
C.W. W.  
L.D. W.

544

**BENCH MARKS**

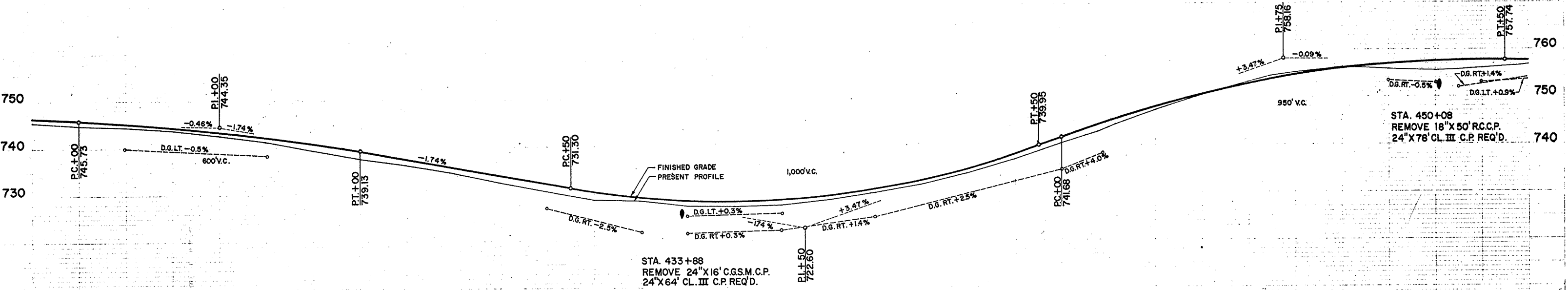
NO.	STATION	DESCRIPTION	ELEV.
69	429+24	SPIKE IN 10" APPLE 120' LT.	739.63
70	438+81	SPIKE IN 16" APPLE 60' RT.	728.45
71	443+60	PT. MK. TOP S.W. COR. SLAB 70' RT.	745.43



**NET LENGTH OF CENTERLINE**

STATION TO STATION	LIN. FT.	
420+00	450+00	3,000.

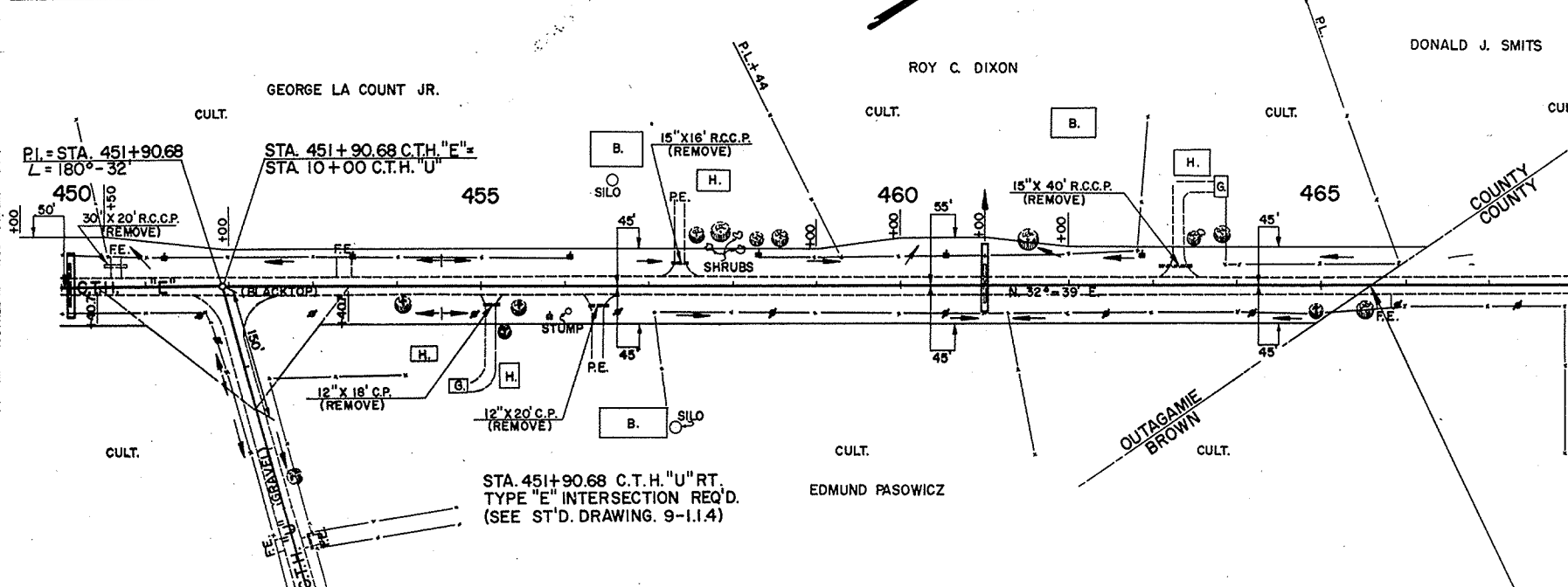
UNCL. EXC. = 1,544 C.Y.      UNCL. EXC. = 2,930 C.Y.      UNCL. EXC. = 1,909 C.Y.  
 FILL = 1,060 C.Y.                      FILL = 2,037 C.Y.                      FILL = 1,423 C.Y.



746.19	745.73	745.16	744.38	743.39	742.18	740.76	739.13	737.39	735.65	733.91	732.17	730.50	729.27	728.57	728.40	728.75	729.61	730.99	732.89	735.32	738.28	741.68	744.27	744.96	745.45	747.87	750.40	752.56	753.52	753.93	754.34	755.75	756.12	756.78	757.45	757.63	757.73	757.72	757.69
420	1	2	3	4	425	6	7	8	9	430	1	2	3	4	435	6	7	8	9	440	1	2	+78 3+16	4	445	6	+81 +78 7	8	+81	9	450	+88	1	+71 2					

BENCH MARKS			
NO.	STATION	DESCRIPTION	ELEV.
72	454+03	SPIKE IN 6" APPLE 62' RT.	758.58
73	457+97	PT. MK. N.E. COR. CONC. SLAB 75' LT.	757.99
74	463+35	SPIKE IN 18" ELM 78' LT.	751.73
75	468+42	PT. MK. N.W. COR. TOP STEP HO. 84' RT.	755.75

DIVISION	PROJECT	SHEET NUMBER	TOTAL SHEETS
	S 0377 (4)	9	25

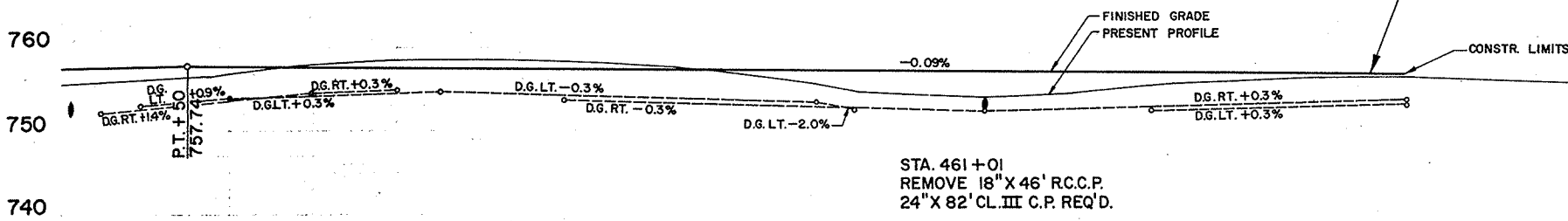
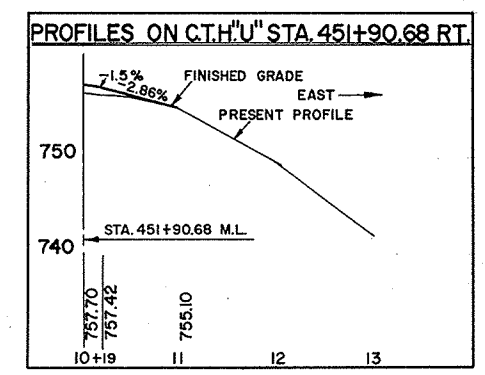


NET LENGTH OF CENTERLINE		
STATION TO STATION	LIN. FT.	
450+00	465+59.44	1,559.44

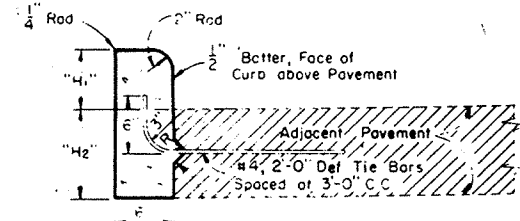
UNCL. EXC. = 1,811 C.Y.  
 FILL = 1 C.Y.  
 HAUL 1,810 C.Y. TO STA. 415+60-422+00

UNCL. EXC. = 3,250 C.Y.  
 FILL = 2,377 C.Y.

STA. 465+59.44 END  
 PROJ. S 0377(4)



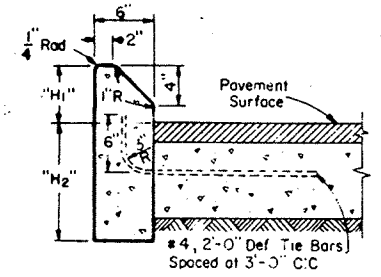
757.45	757.73	757.74	757.72	757.69	757.60	757.51	757.42	757.33	757.29	757.24	757.21	757.15	757.06	757.02	756.97	756.88	756.79	756.70	756.66	756.61	756.52	756.28		
450	1	46	47	2	3	4	455	6	+39	7	+36	8	9	+50	460	1	2	3	+25	4	465	6	7	8



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

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

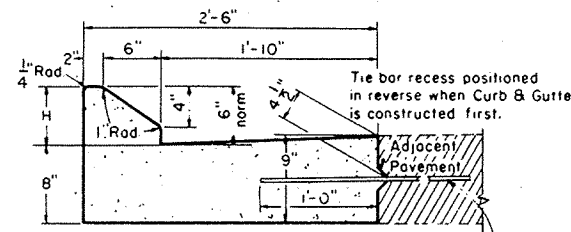
**CONCRETE CURB**



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

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

**CONCRETE CURB (Mountable Type)**



$H = 9''$  max and 4'' min. & shall be 6'' unless otherwise shown on plans.  
 #4, 2'-0" Def Tie Bars or alternate Bolt Type instal. may be used, spaced at 3'-0" C.C.

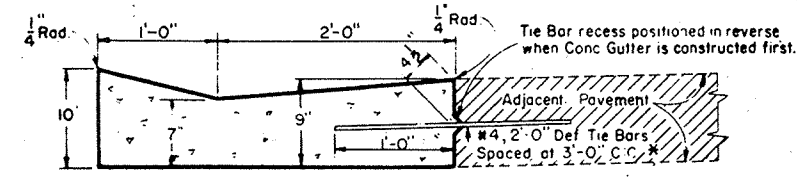
**TYPE "G" (Including Tie Bars)**      **TYPE "J" (Excluding Tie Bars)**

**CONCRETE CURB AND GUTTER (Mountable Type)**

**GENERAL NOTES**

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

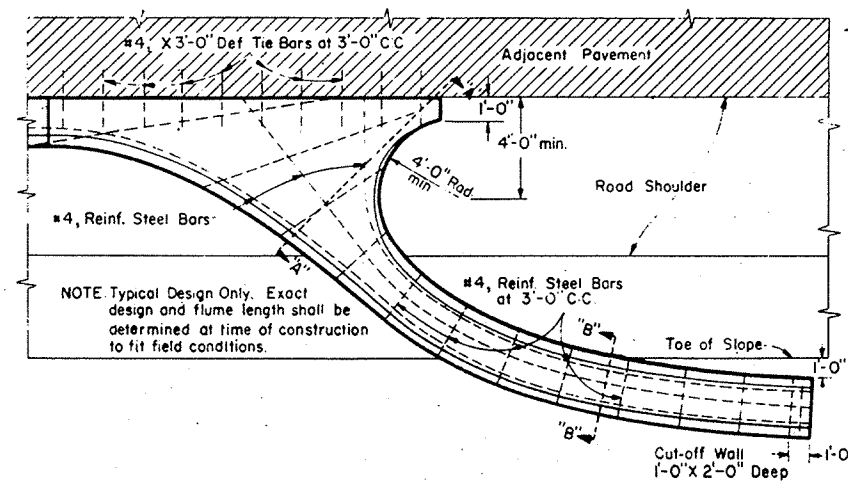
**JOINTS** - Joints shall not be sealed in concrete curb, concrete gutter, concrete curb and gutter, or concrete surface drains.



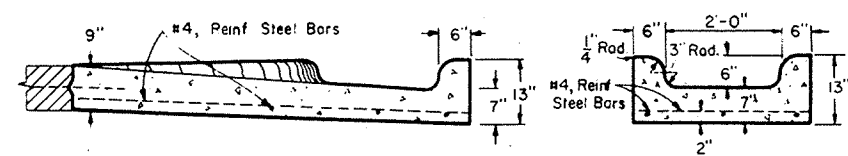
\* Alternate Tie Bars or Bolt Type installations may be used as shown for Longitudinal Joints.

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

**CONCRETE GUTTER**



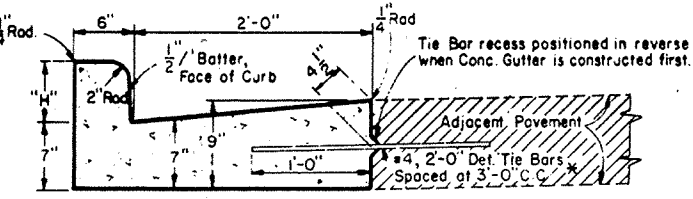
NOTE: Typical Design Only. Exact design and flume length shall be determined at time of construction to fit field conditions.



**SECTION "A-A"**

**SECTION "B-B"**

**CONCRETE INLET OR DISCHARGE FOR CURB AND GUTTER SURFACE DRAIN**



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

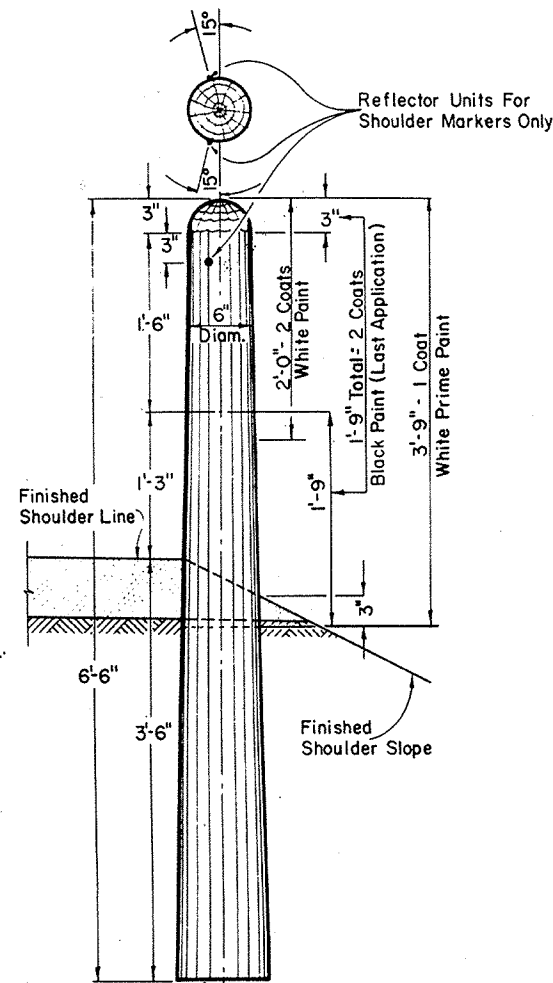
**TYPE "A" (Including Tie Bars)**      **TYPE "D" (Excluding Tie Bars)**

**CONCRETE CURB AND GUTTER (Barrier Type)**

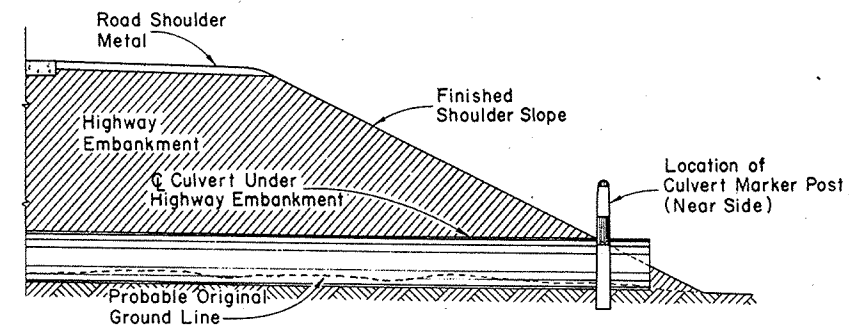
**CONCRETE CURB, CONCRETE GUTTER  
 CONCRETE CURB AND GUTTER AND  
 CONCRETE SURFACE DRAINS**

STATE HIGHWAY COMMISSION OF WISCONSIN

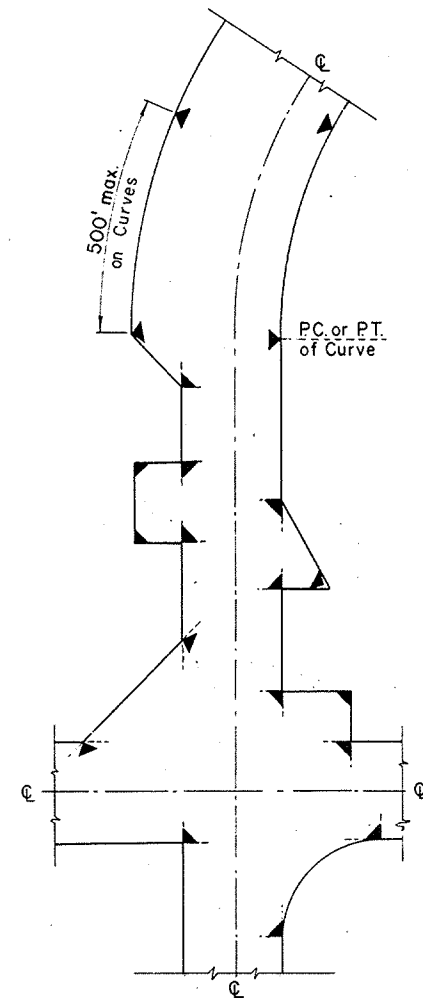
RECOMMENDED FOR APPROVAL  
 DATE 2-5-63  
 APPROVED: J. S. Pelt ENGINEER OF DESIGN  
 DATE 2/4/63  
 E. S. Rutledge STATE HIGHWAY ENGINEER



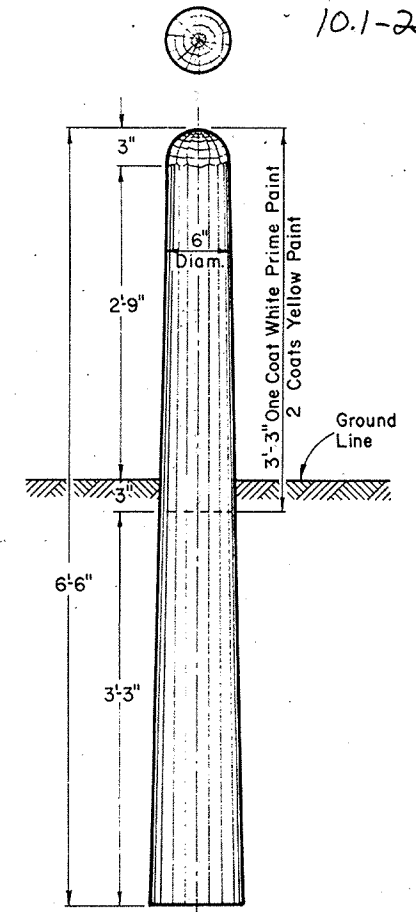
**MARKER POST FOR ROAD SHOULDERS AND CULVERTS**



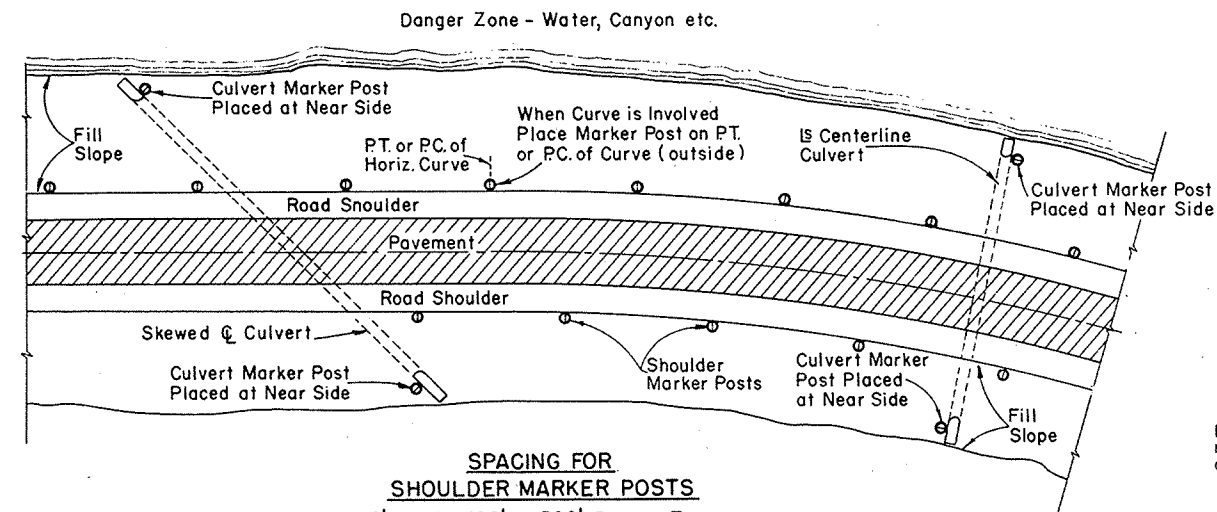
**SECTION SHOWING RELATIVE LOCATION OF MARKER POST FOR CULVERTS**



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



**MARKER POST FOR RIGHT OF WAY**



**SPACING FOR SHOULDER MARKER POSTS**  
 50' C:C for 100' to 500' Danger Zones  
 100' C:C for Over 500' Danger Zones  
**LOCATION DIAGRAM SHOWING RELATIVE LOCATIONS OF SHOULDER MARKER POSTS AND CULVERT MARKER POSTS**

**MARKER POSTS FOR ROAD SHOULDERS AND CULVERTS**

**MARKER POST FOR RIGHT OF WAY**

**GENERAL NOTES**

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

**MARKER POSTS FOR RIGHT OF WAY**

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

**REFLECTOR UNITS**

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

**MARKER POSTS & MARKER POSTS FOR RIGHT OF WAY**

STATE HIGHWAY COMMISSION OF WISCONSIN

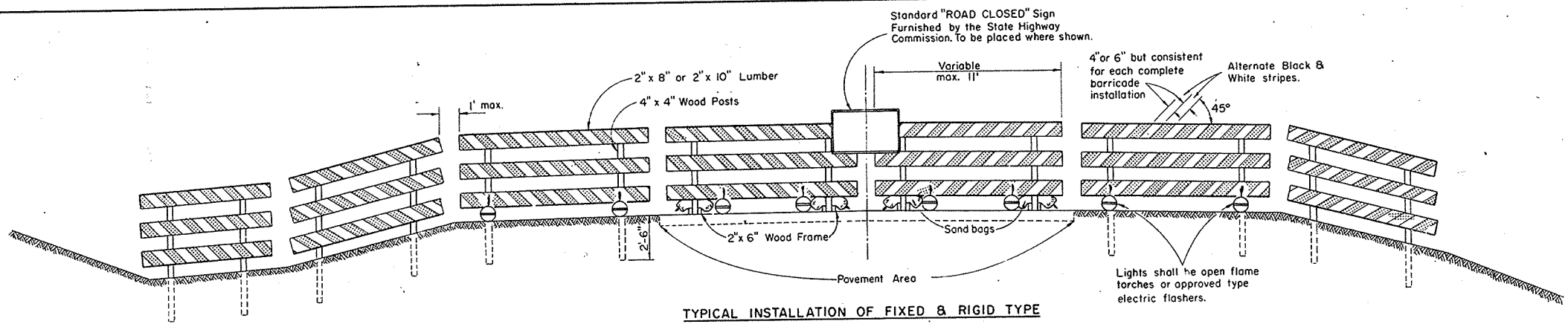
RECOMMENDED FOR APPROVAL

2-5-63  
 APPROVED: *J. P. Peltz*  
 ENGINEER OF DESIGN

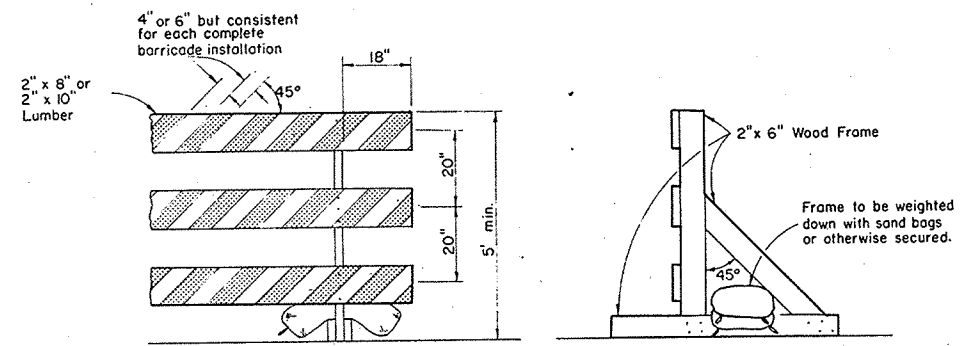
2/6/63  
 DATE: *E. L. Rottlind*  
 STATE HIGHWAY ENGINEER

PLATE NO. 7-1.34

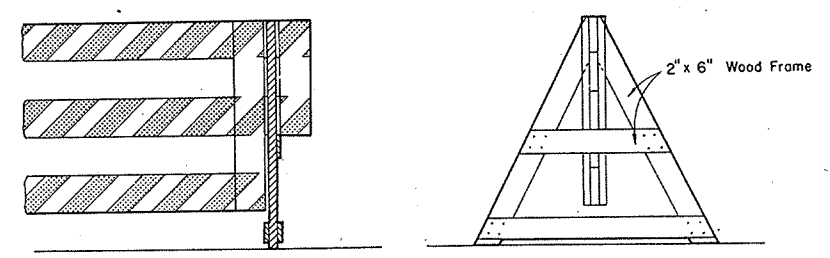




TYPICAL INSTALLATION OF FIXED & RIGID TYPE



ALTERNATE TYPE INSTALLATION (RIGID)



ALTERNATE TYPE INSTALLATION (DEMOUNTABLE)

**CLASS I BARRICADE**

**GENERAL NOTES:**

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

**CLASS I BARRICADE**

Shall be used at points of closure where road is closed to traffic. Gates or movable sections of barricade shall be provided when necessary, for access of equipment or other authorized vehicles only.

**CLASS II BARRICADE**

May be used only where the hazard to traffic is relatively small, and for the more or less continuous delimiting of a restricted roadway, or for temporary daytime use.

**LUMBER & FABRICATION**

Lumber shall be of a grade structurally sound and sufficiently rigid to satisfactorily support and maintain the purpose and intent of a barricade facility. The fabrication of the barricade shall be in accord with good pertinent wood-working practices.

**PAINTING**

Barricades shall be painted as shown hereon in alternate black and white stripes. Black stripes shall be painted with weather resistant and durable black paint. White stripes shall be painted a prime coat of good grade wood primer, followed by two coats of white 'Codic Reflective Liquid' (Minnesota Mining Co.) or equivalent, or reflective sheeting wide angle, flat top 'Scotchlite' brand material (Minnesota Mining Co.) or equivalent.

**DIRECTION OF DIAGONAL STRIPES**

Where a barricade extends entirely across the roadway and no vehicle access provision, the stripes shall slope downward toward the highway centerline.

Where vehicle access is permitted, the stripes shall slope downward in the direction toward which vehicles must turn in detouring.

Where both right and left turns are provided for, the stripes shall slope downward in both directions from the center.

**MEASUREMENT & PAYMENT**

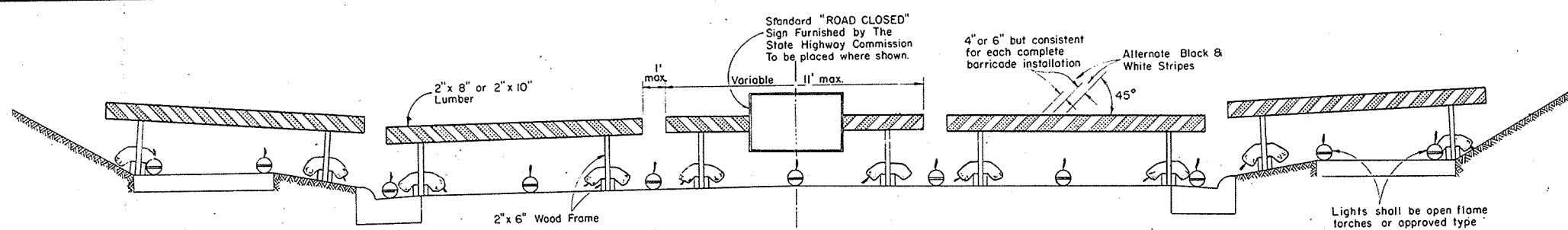
All barricades, unless otherwise provided for in the plans and/or special provisions shall be furnished, placed, and maintained as noted above, and no additional compensation will be allowed but shall be construed to be included in the price bid for other items.

**NOTE:**

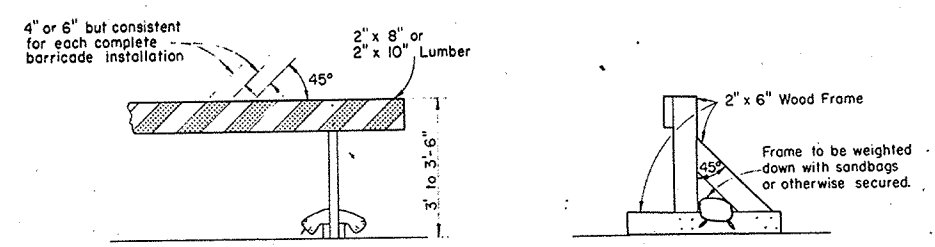
Lighting devices for barricades shall conform to the requirements of the Standard Specifications.

**NOTE:**

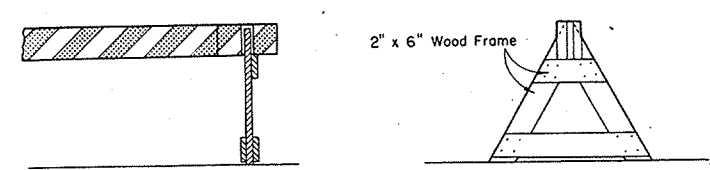
All lumber or timber dimensions shown hereon are nominal.



TYPICAL INSTALLATION OF RIGID TYPE



ALTERNATE TYPE INSTALLATION (RIGID)



ALTERNATE TYPE INSTALLATION (DEMOUNTABLE)

**CLASS II BARRICADE**

**CONSTRUCTION BARRICADE**

STATE HIGHWAY COMMISSION OF WISCONSIN

RECOMMENDED FOR APPROVAL:

DATE 2-5-63

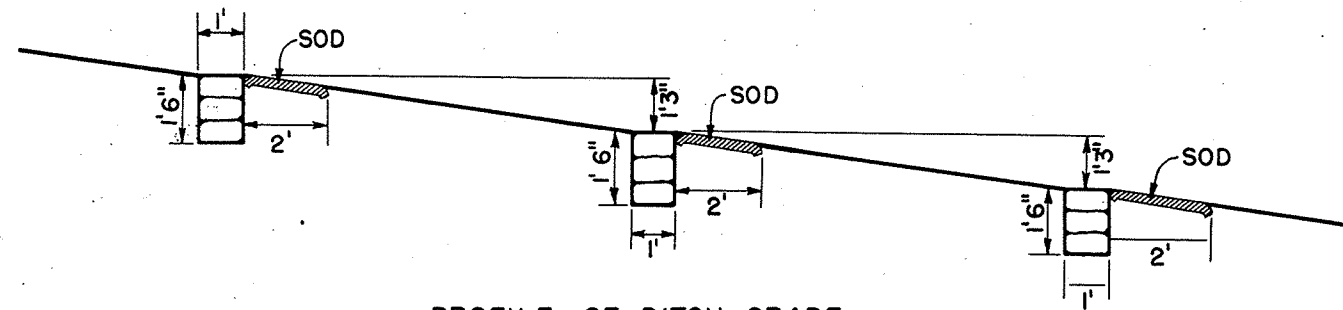
J. D. Pitt ENGINEER OF DESIGN

APPROVED:

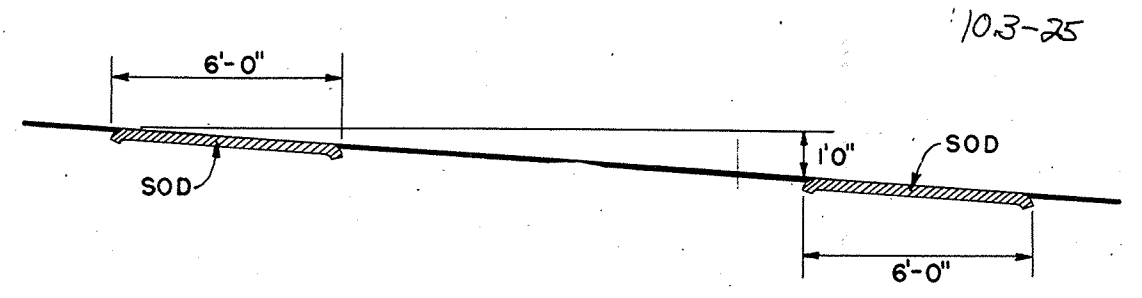
DATE 2/16/63

E. C. Berlin STATE HIGHWAY ENGINEER

PLATE NO. 7-4.1.4

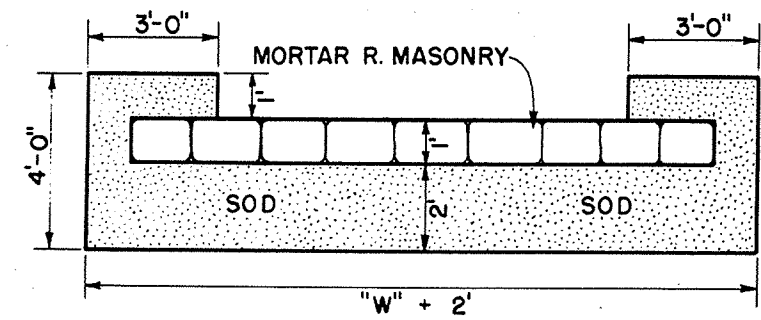


PROFILE OF DITCH GRADE

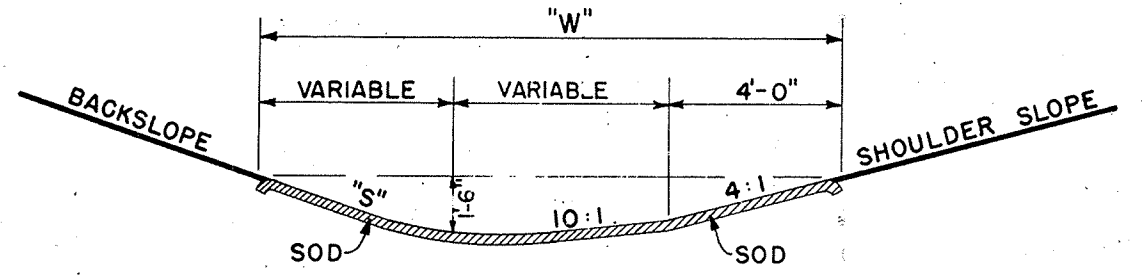


PROFILE OF DITCH GRADE

NOTE: NUMBER REQUIRED WILL BE DETERMINED BY VERTICAL SPACING.



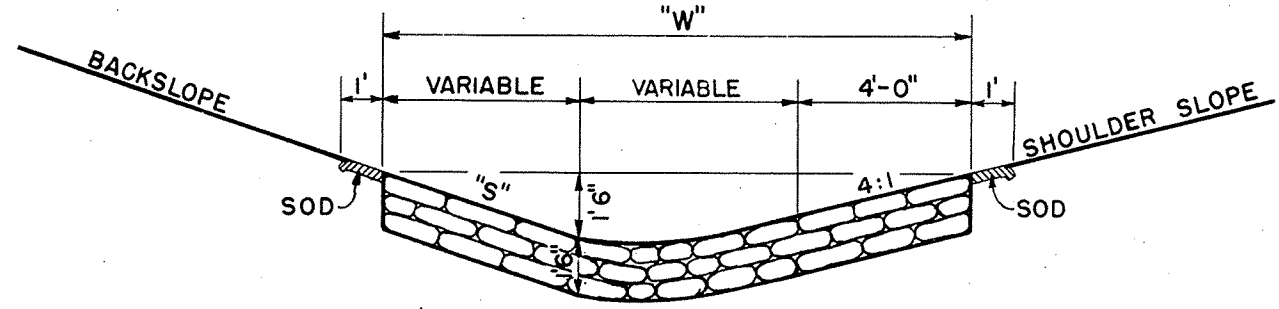
PLAN VIEW SHOWING SOD



SECTION

SOD DITCH CHECKS

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



SECTION

MORTAR RUBBLE MASONRY

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

CONSTRUCTION NOTES

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

DITCH CHECKS  
MORTAR RUBBLE MASONRY & SOD

STATE HIGHWAY COMMISSION OF WISC.

RECOMMENDED FOR APPROVAL:

*Frank Crave*  
DESIGN ENGINEER

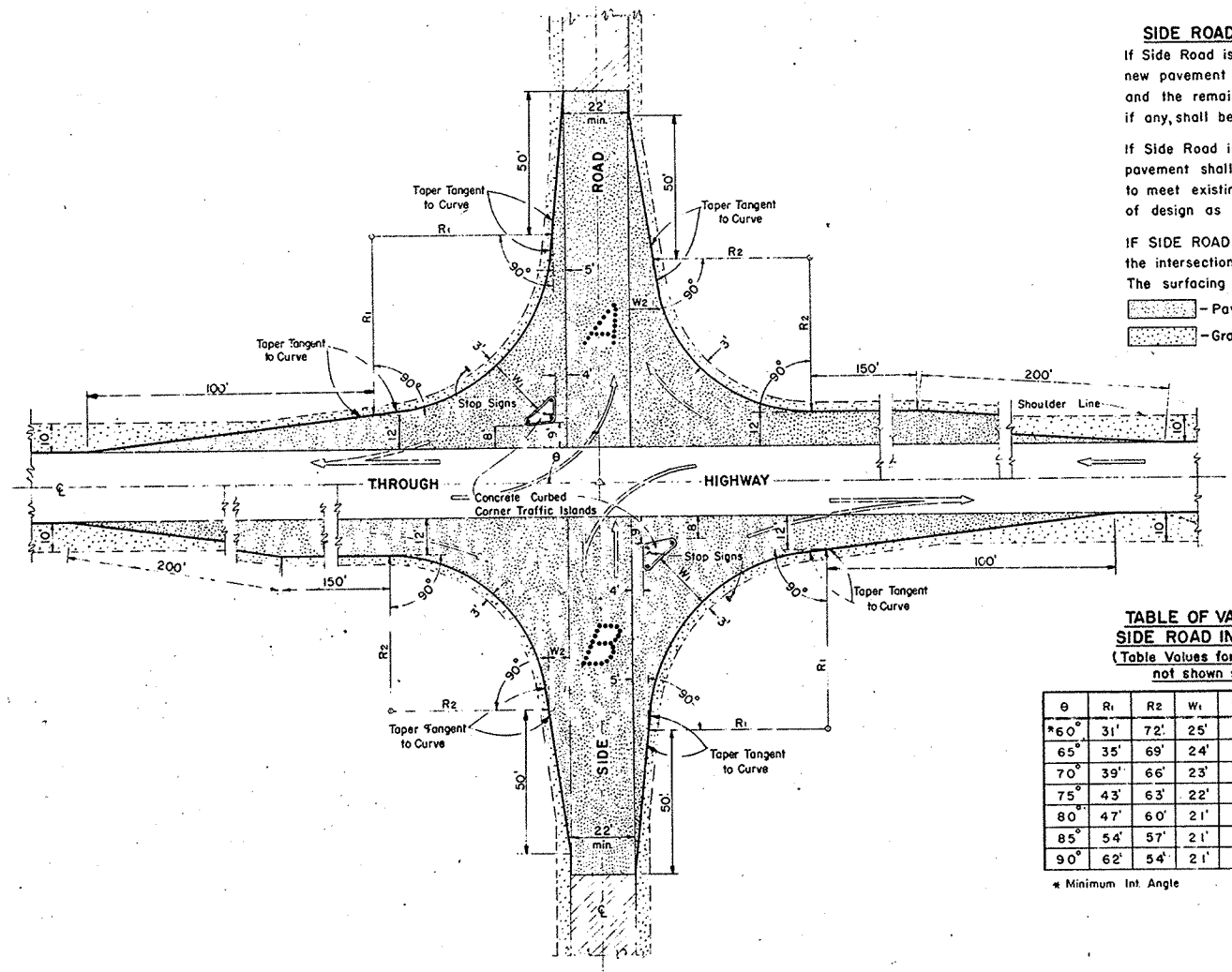
*[Signature]*  
CONSTRUCTION ENGINEER

DATE: \_\_\_\_\_

APPROVED: \_\_\_\_\_

DRAWN DIV 9  
CHECKED \_\_\_\_\_

*[Signature]*  
STATE HIGHWAY ENGINEER 8-1.3.1

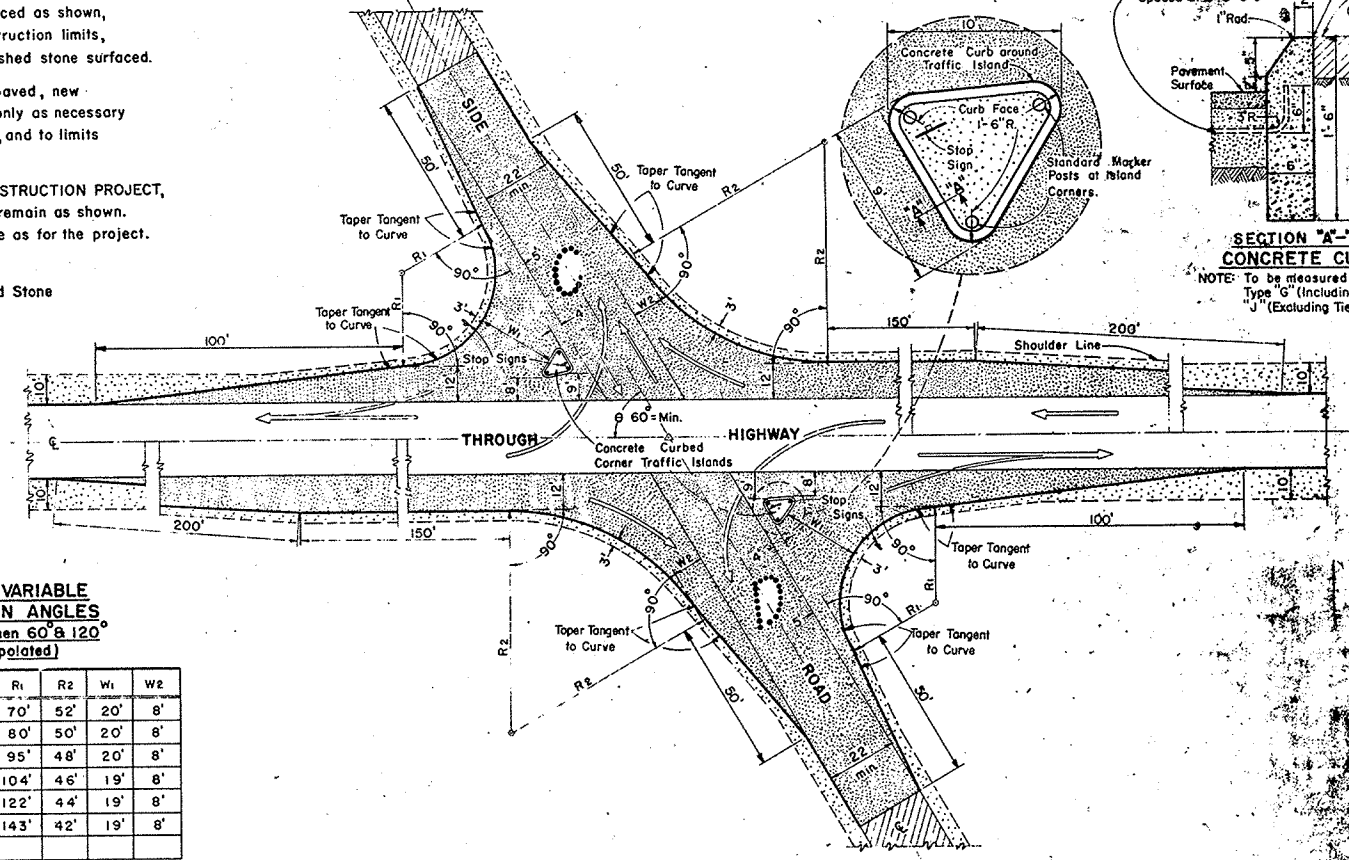


**SIDE ROAD SURFACING NOTE**  
 If Side Road is not presently surfaced, new pavement shall be placed as shown, and the remainder to construction limits, if any, shall be gravel or crushed stone surfaced.  
 If Side Road is presently paved, new pavement shall be placed only as necessary to meet existing pavement, and to limits of design as shown.  
 IF SIDE ROAD IS THE CONSTRUCTION PROJECT, the intersection geometrics remain as shown. The surfacing shall be same as for the project.  
 - Pavement  
 - Gravel or Crushed Stone

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

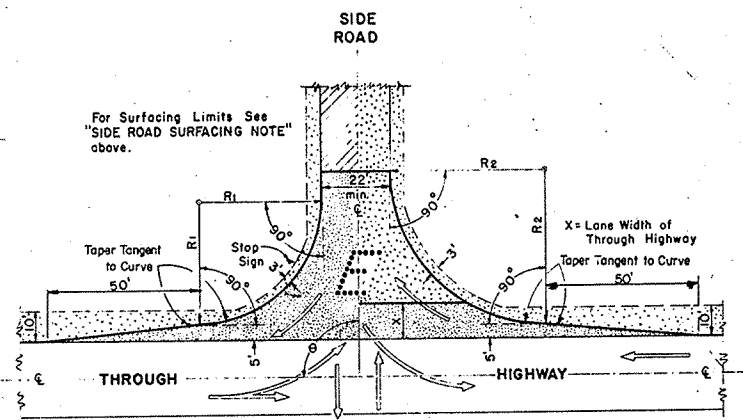
θ	R <sub>1</sub>	R <sub>2</sub>	W <sub>1</sub>	W <sub>2</sub>	θ	R <sub>1</sub>	R <sub>2</sub>	W <sub>1</sub>	W <sub>2</sub>
*60°	31'	72'	25'	10'	95°	70'	52'	20'	8'
65°	35'	69'	24'	9'	100°	80'	50'	20'	8'
70°	39'	66'	23'	8'	105°	95'	48'	20'	8'
75°	43'	63'	22'	8'	110°	104'	46'	19'	8'
80°	47'	60'	21'	8'	115°	122'	44'	19'	8'
85°	54'	57'	21'	8'	**120°	143'	42'	19'	8'
90°	62'	54'	21'	8'					

\* Minimum Int. Angle      \*\* Maximum Int. Angle



**SECTION "A-A" CONCRETE CURB**  
 NOTE: To be measured and paid for as Type "G" (Including Tie Bars) or Type "J" (Excluding Tie Bars) Concrete Curb.  
 #2, 2'-0" Det. Tie Bars Spaced at 3'-0" C/C  
 1/4" Radius Traffic Island Gravel Surfaced  
 Concrete Curb around Traffic Island  
 Curb Face 1'-6" R.  
 Stop Sign  
 Standard Marker Posts at Island Corners  
 Pavement Surface  
 1" Rad.

**MAJOR SIDE ROAD INTERSECTION DESIGN DETAILS**  
 To be used only when current ADT on Through Highway is 1500 or over, and on Side Road is Over 200



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

θ	R <sub>1</sub>	R <sub>2</sub>	θ	R <sub>1</sub>	R <sub>2</sub>
*60°	40'	50'	95°	45'	49'
65°	40'	50'	100°	50'	48'
70°	40'	50'	105°	55'	47'
75°	40'	50'	110°	60'	46'
80°	40'	50'	115°	65'	45'
85°	40'	50'	**120°	70'	44'
90°	40'	50'			

\* Minimum Int. Angle      \*\* Maximum Int. Angle

**MINOR SIDE ROAD INTERSECTION DESIGN DETAILS**  
 To be used when current ADT on Through Highway is Less than 1500 or on Side Road is Less than 200

**GENERAL NOTES**  
 Designs "A", "B", "C", "D", or "E" may be used interchangeably in combination or separately for any one complete intersection depending upon Traffic Volume, intersection angle and Surfacing of each approach roadway.

Details on this drawing are for Minimum Design Only, and not applicable to Special Conditions, as shown elsewhere on the plans.

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

STATE HIGHWAY COMMISSION OF WISCONSIN

RECOMMENDED FOR APPROVAL

DATE: 2-5-63  
 APPROVED: [Signature]  
 DATE: 2/6/63  
 APPROVED: [Signature]

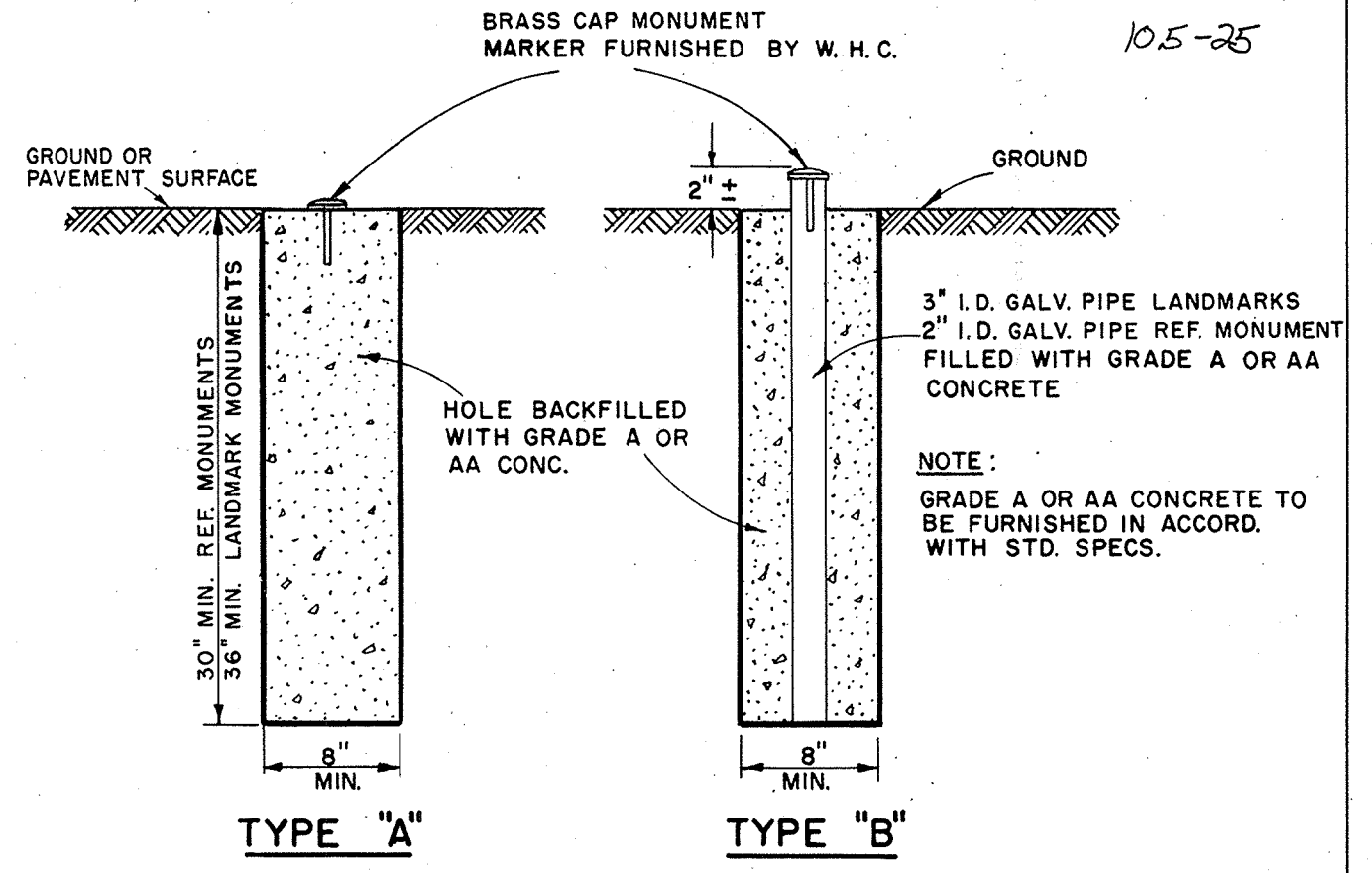
PLATE NO. 10.4-25

REF  
E 1/4 COR.  
SEC + 35  
T22N-R6W  
69.7'N

T25N R17E  
S23 | S24  
S26 | S25  
1961

REF  
E 1/4 COR.  
+  
S35T22NR6W  
89.87'N

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



**GENERAL NOTES**

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

**MEASUREMENT AND PAYMENT-**

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

**LANDMARK  
REFERENCE MONUMENTS**

STATE HIGHWAY COMMISSION OF WISCONSIN  
RECOMMENDED FOR APPROVAL:

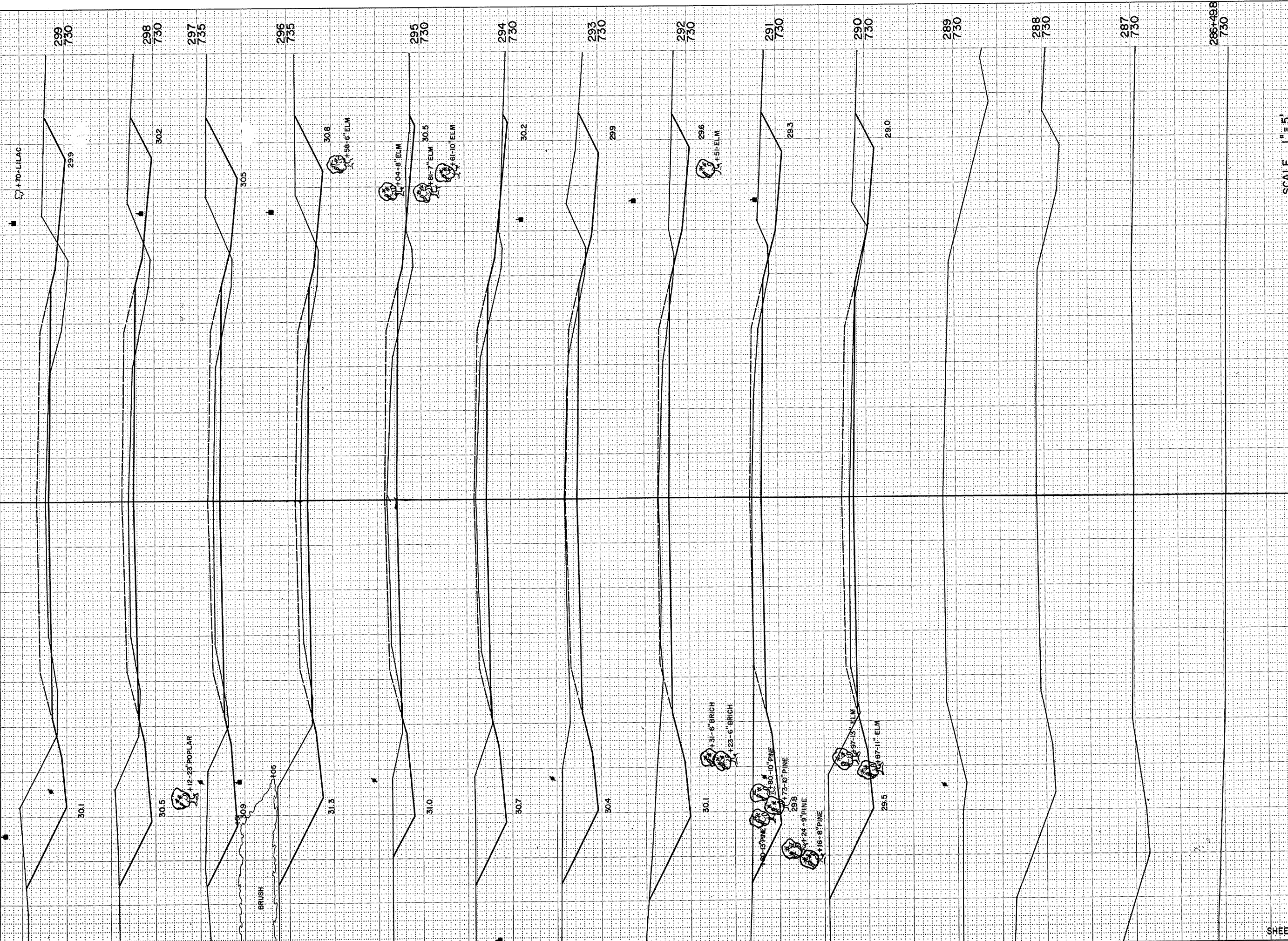
2-5-63  
DATE  
APPROVED: *J. J. Pelt*  
ENGINEER OF DESIGN

7/6/63  
DATE  
APPROVED: *E. C. Rostetter*  
STATE HIGHWAY ENGINEER 12-1.1.2



NO. 544 AREAS CHECKED J.M.R. 2-84

B.P.R. REGION DIVISION	PROJECT	SHEET NUMBER	TOTAL SHEETS
4 WIS.	S 0377(4)	11	25

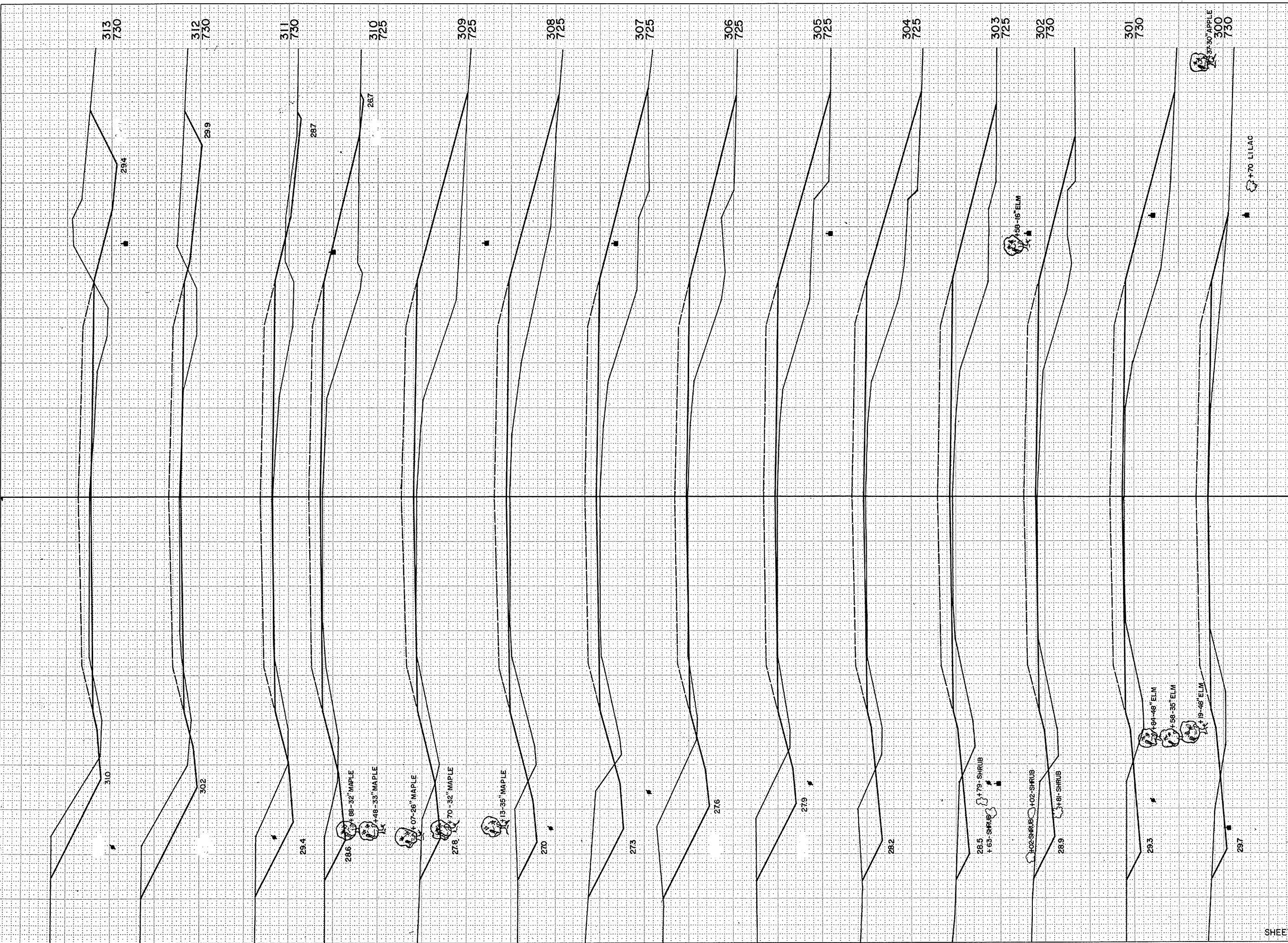


STATION	DISTANCE	YARDAGE	
		UNCL.	FILL
289	182		4
290	398		6
291	435		4
292	478		4
293	406		15
294	259		28
295	300		24
296	365		20
297	333		32
298	298		56
299			
SHEET TOTAL		3454	193

B.R.R. REGION DIVISION	PROJECT	SHEET NUMBER	TOTAL SHEETS
4 WIS.	S 0377(4)	12	25

FINAL SURVEY SURVEY SURVEY SURVEY  
 NOTE BOOK NO. 514  
 PLOTTED BY J.M.R.  
 CHECKED BY J.M.R.  
 AREAS CHECKED

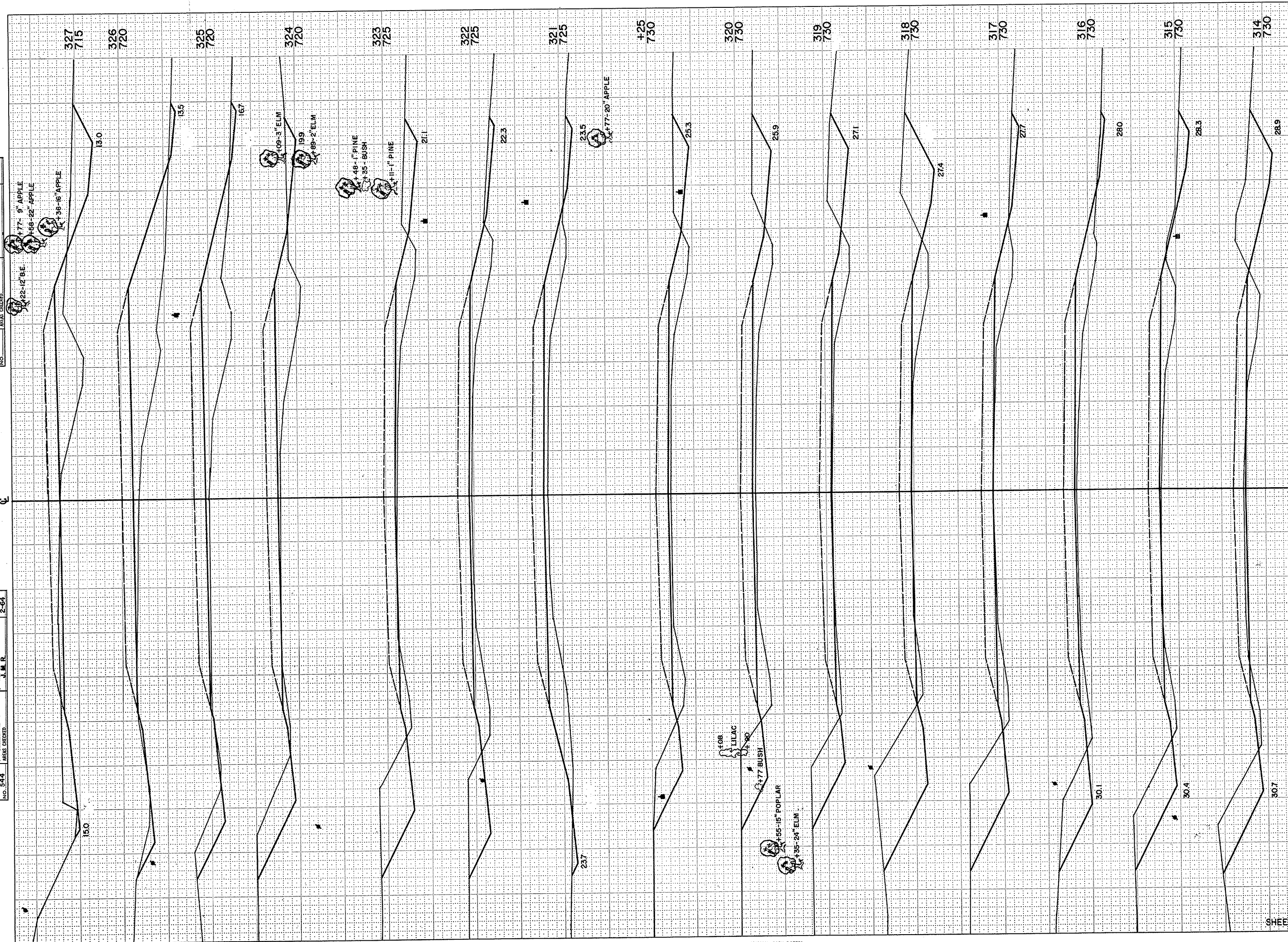
D.G.N. SURVEY SURVEY SURVEY SURVEY  
 PLOTTED BY J.M.R.  
 CHECKED BY J.M.R.  
 AREAS CHECKED



STATION	DISTANCE	YARDAGE	
		UN CL	FILL
299			
300	159		89
301	43		215
302	54		281
303	46		294
304	56		339
305	93		315
306	146		287
307	146		333
308	87		378
309	56		380
310	50		348
311	87		213
312	178		94
313	257		63
<b>SHEET TOTAL</b>	<b>1,458</b>		<b>3,629</b>



B. & R. REGION	PROJECT	SHEET NUMBER	TOTAL SHEETS
4 WIS.	S 0377(4)	13	25



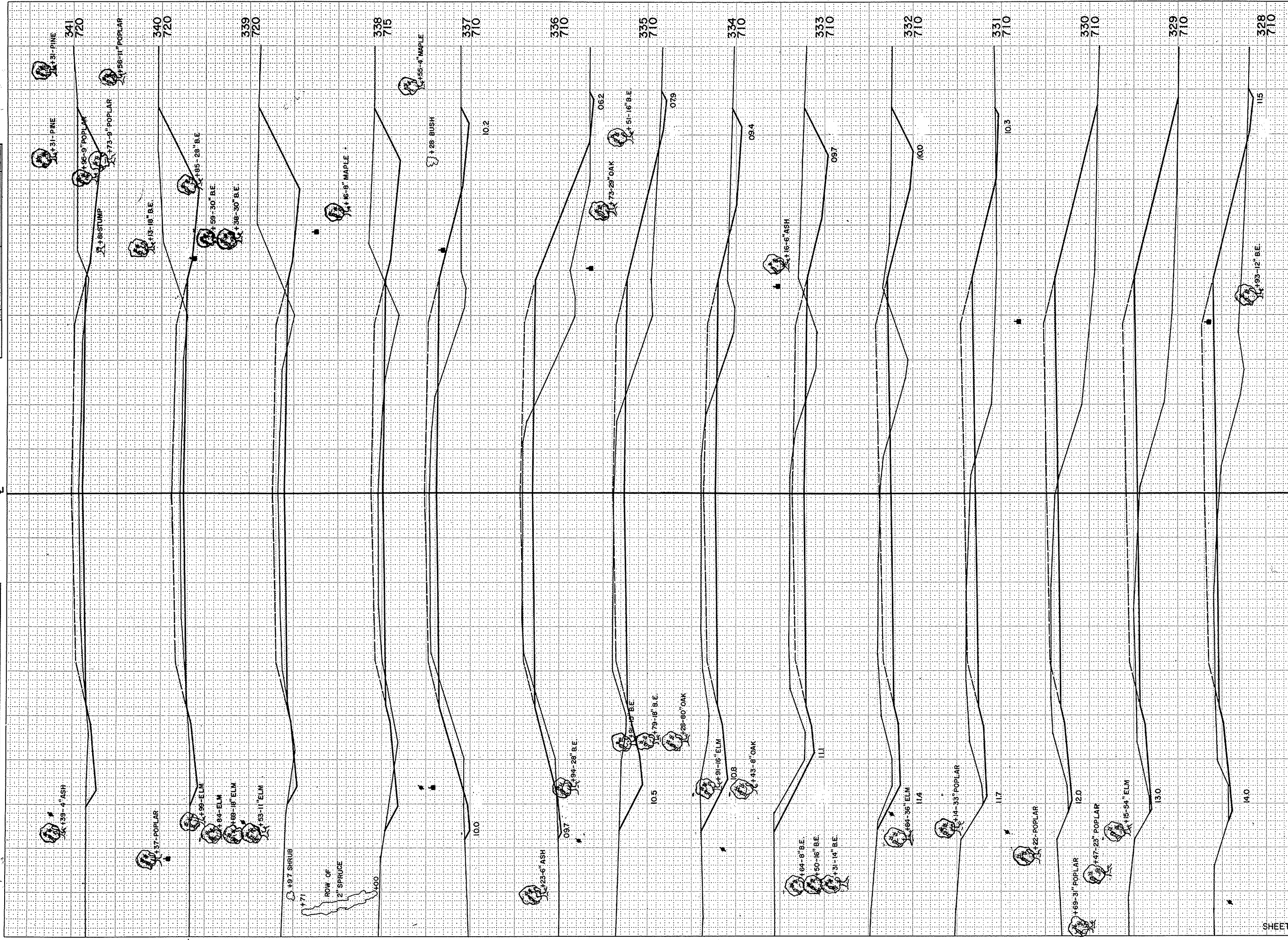
STATION	YARDAGE		
	DISTANCE	EXCAVATION	
		UNCL	
313			
314	276		63
315	208		80
316	122		124
317	122		126
318	222		89
319	230		82
320	150		117
+25	33		35
321	56		139
322	61		202
323	144		135
324	150		133
325	83		208
326	41		313
327	96		267
<b>SHEET TOTAL</b>	<b>1994</b>		<b>2,113</b>



SURV. 6

SURVEY NO. 544  
 DATE 1-24-64  
 DRAWN BY J.M.P.  
 CHECKED BY J.M.P.

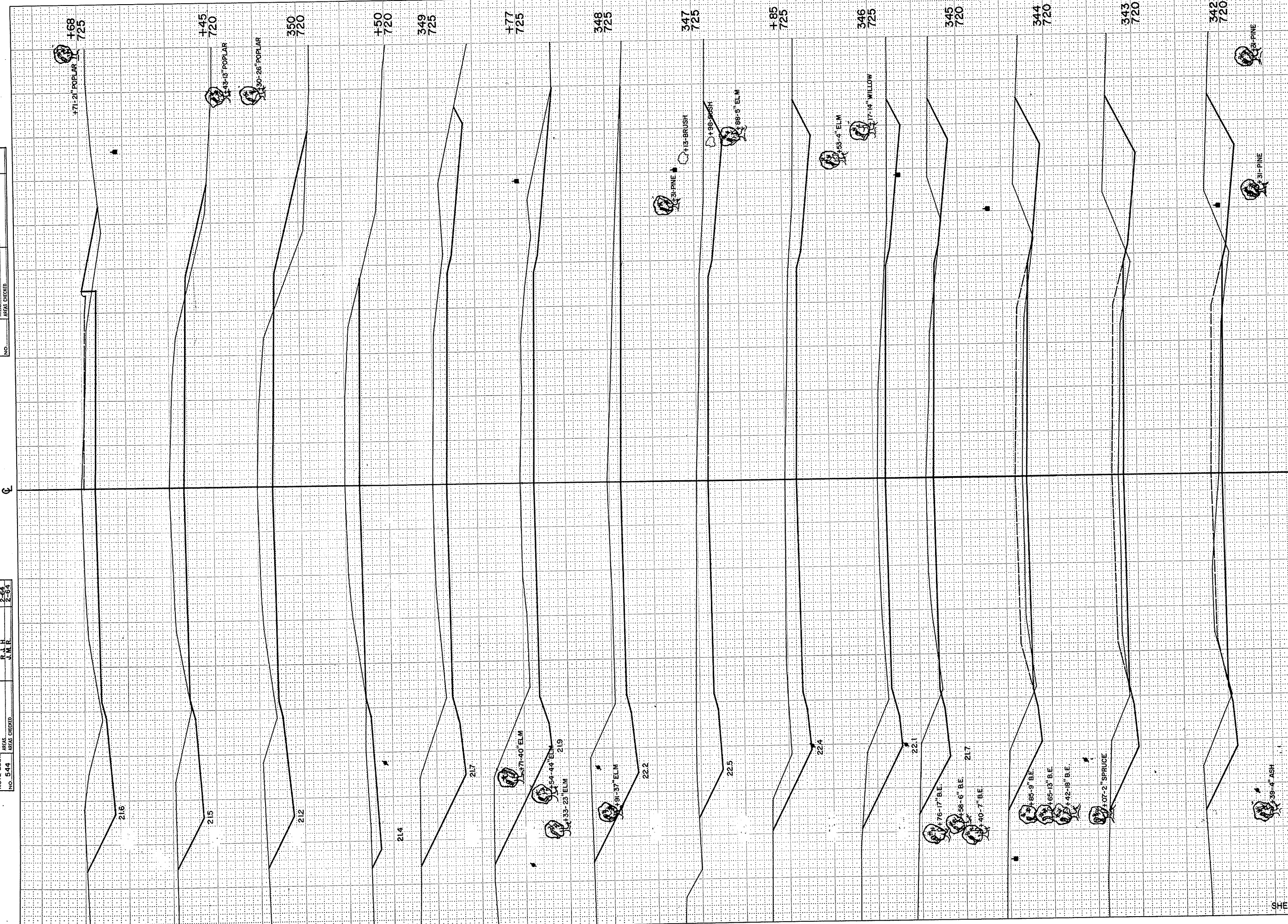
SURVEY NO. 544  
 DATE 1-24-64  
 DRAWN BY J.M.P.  
 CHECKED BY J.M.P.



B.P.R. REGION DIVISION	PROJECT	SHEET NUMBER	TOTAL SHEETS
4 WIS.	S 0377(4)	14	25

STATION	DISTANCE	YARDAGE	
		EXCAVATION	
		UNCL.	FILL
327		106	228
328		52	363
329		87	415
330		139	302
331		239	133
332		354	46
333		367	46
333		285	113
335		180	250
336		122	254
337		172	115
338		272	35
339		296	6
340		244	2
41			
SHEET TOTAL		2,915	2,308

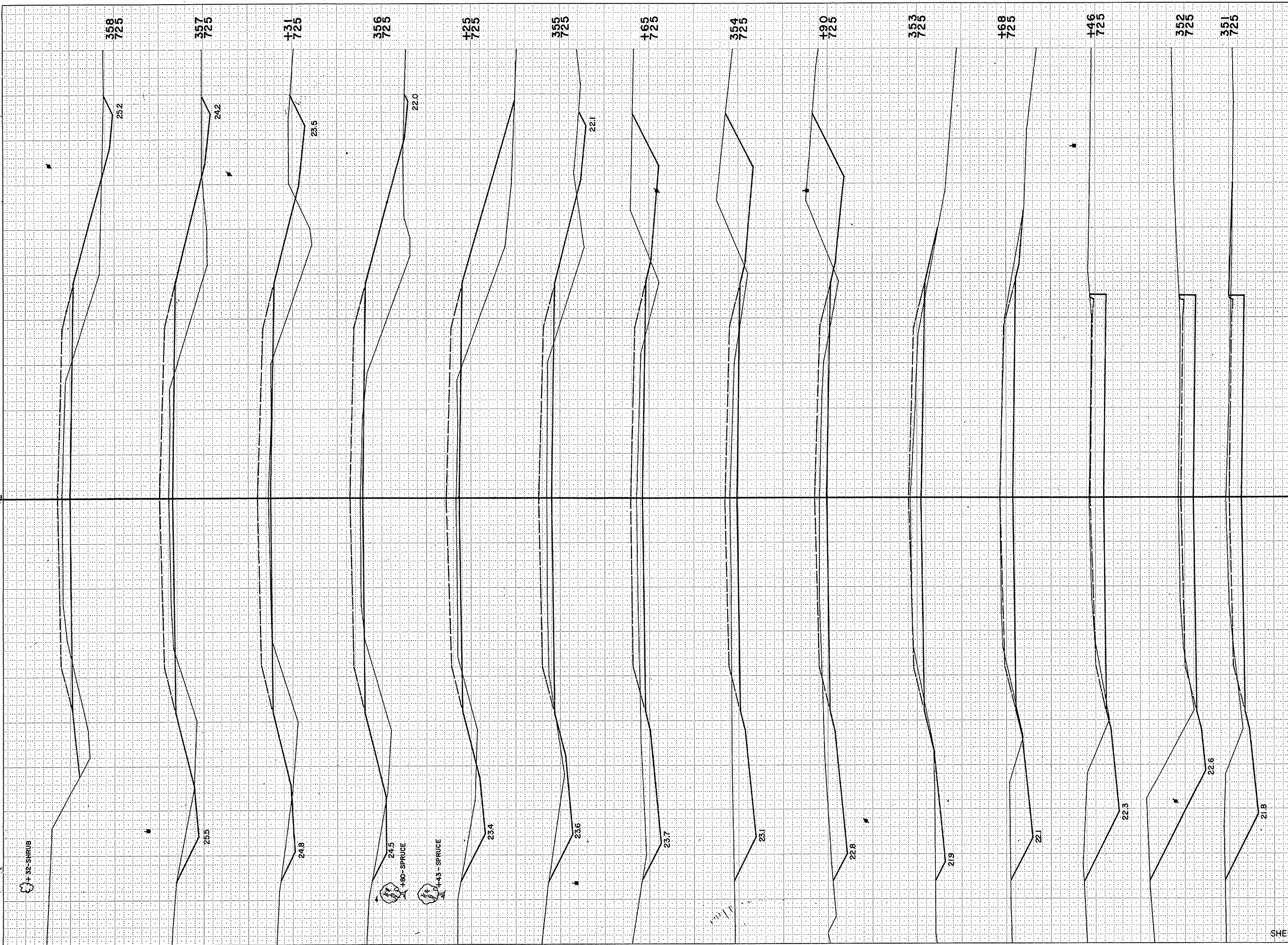
B.P.R. REGION DIVISION	PROJECT	SHEET NUMBER	TOTAL SHEETS
4 WIS.	S 0377(4)	15	25



STATION	DISTANCE	YARDAGE	
		UNCL	FILL
341		274	7
342		335	9
343		309	6
344		272	4
345		278	2
346		319	0
+85		69	0
347		478	0
348		396	0
+77		126	0
349		208	0
+50		163	22
350		161	24
+45		78	13
+68			
SHEET TOTAL		3,466	87



B. R. R. REGION	PROJECT	SHEET NUMBER	TOTAL SHEETS
4	S 0377 (4)	16	25
WIS.			



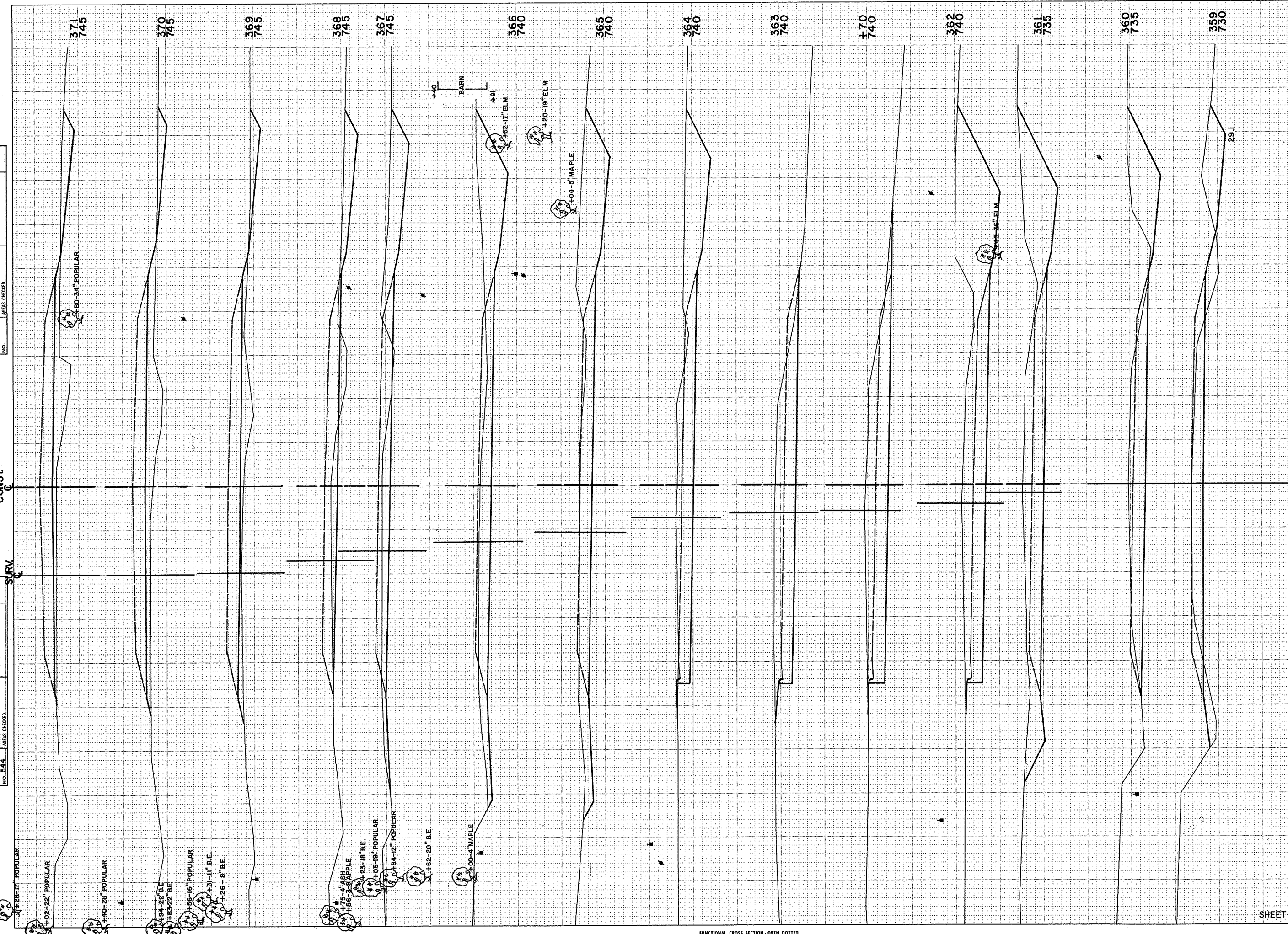
STATION	YARDAGE	
	UNCL.	FILL
350+68	120	17
351	465	2
352	211	0
+46	87	0
+68	91	2
353	259	9
+90	39	2
354	224	11
+65	93	18
355	41	41
+25	52	206
356	18	80
+31	46	139
357	93	169
358		
<b>SHEET TOTAL</b>	<b>1,839</b>	<b>696</b>

SURV. C  
 SURVEY BY: J.V.I.  
 CHECKED: J.E.F.  
 DATE: 6-64  
 NO. 544

SURVEY BY: J.V.I.  
 CHECKED: J.E.F.  
 DATE: 6-64  
 NO. 544

NO. 544  
 ASKS CHECKED  
 SURV

B.P.R. REGION DIVISION	PROJECT	SHEET NUMBER	TOTAL SHEETS
4 WIS.	S 0377 (4)	17	25



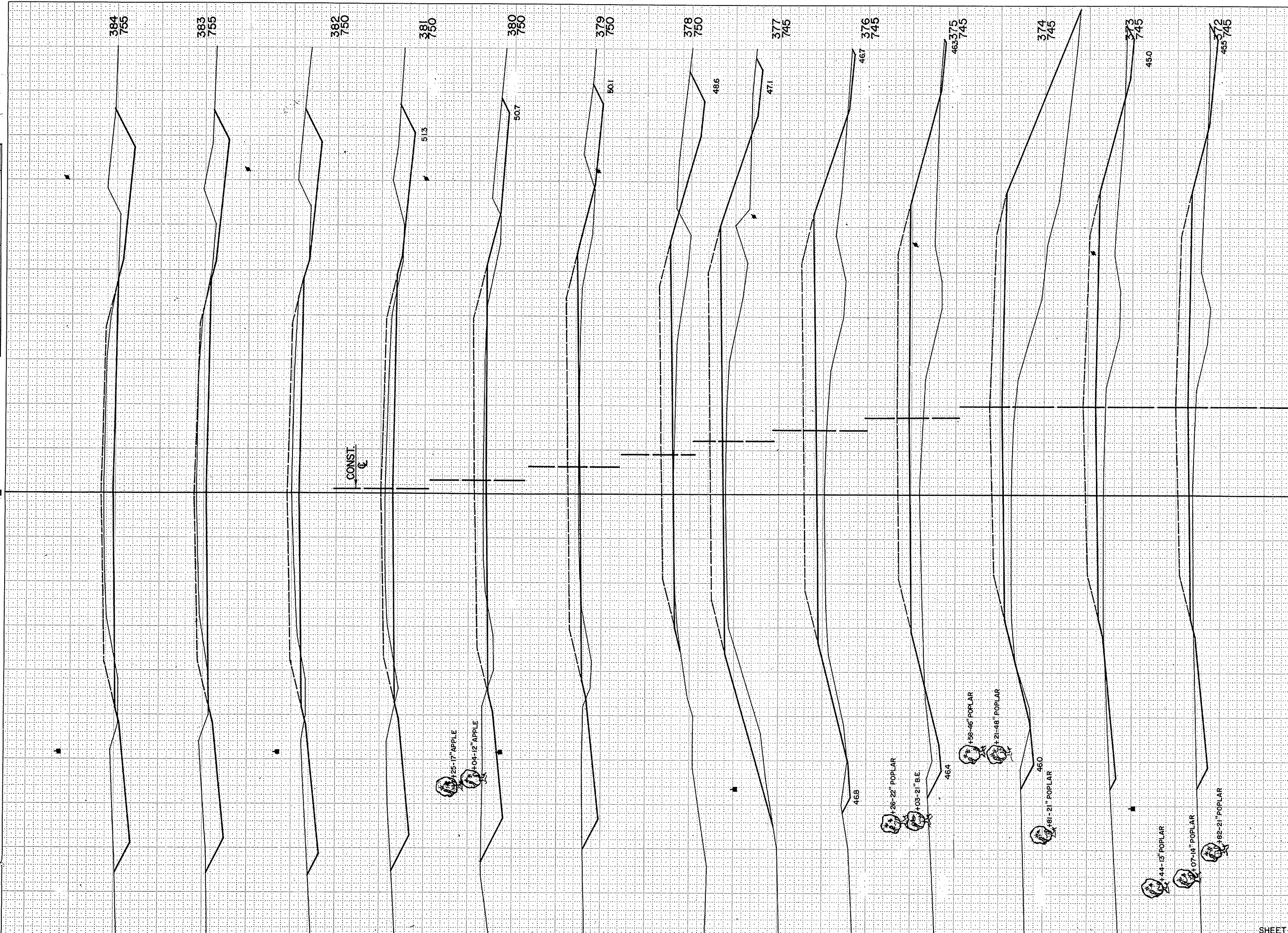
STATION	DISTANCE	YARDAGE	
		EXCAVATION	
		UNCL.	FILL
358			
	176		100
359			
	298		26
360			
	441		7
361			
	583		7
362			
	359		0
+70			
	93		0
363			
	344		0
364			
	461		0
365			
	439		0
366			
	319		0
367			
	182		11
368			
	76		80
369			
	30		152
370			
	35		141
371			
SHEET TOTAL		3,836	524



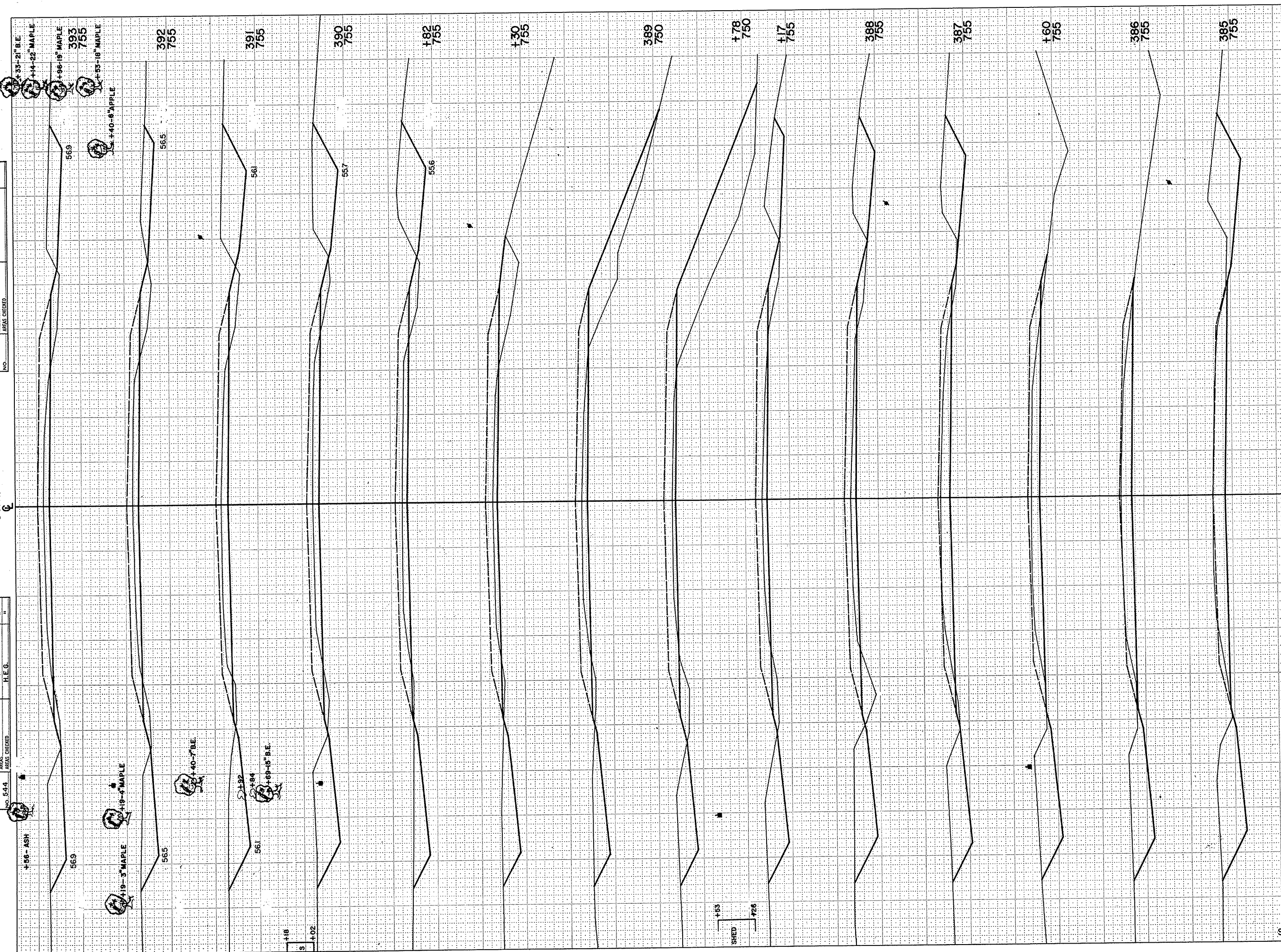
B.P.R. REGION	PROJECT	SHEET NUMBER	TOTAL SHEETS
4 WIS.	S 0377(4)	18	25

SURVEY  
 SURVEYED  
 PLOTTED  
 NOTE BOOK  
 AREA  
 CHECKED  
 NO.

SURV.  
 SURV.  
 J.V.L.  
 J.D.O.  
 1-64  
 2-64  
 5-44



STATION	DISTANCE	YARDAGE		
		EXCAVATION		FILL
		UNCL.		
371				
	54			165
372				
	63			261
373				
	41			506
374				
	37			574
375				
	41			435
376				
	20			380
377				
	44			219
378				
	102			89
379				
	159			56
380				
	241			22
381				
	267			9
382				
	300			6
383				
	348			4
384				
SHEET TOTAL		1717		2726



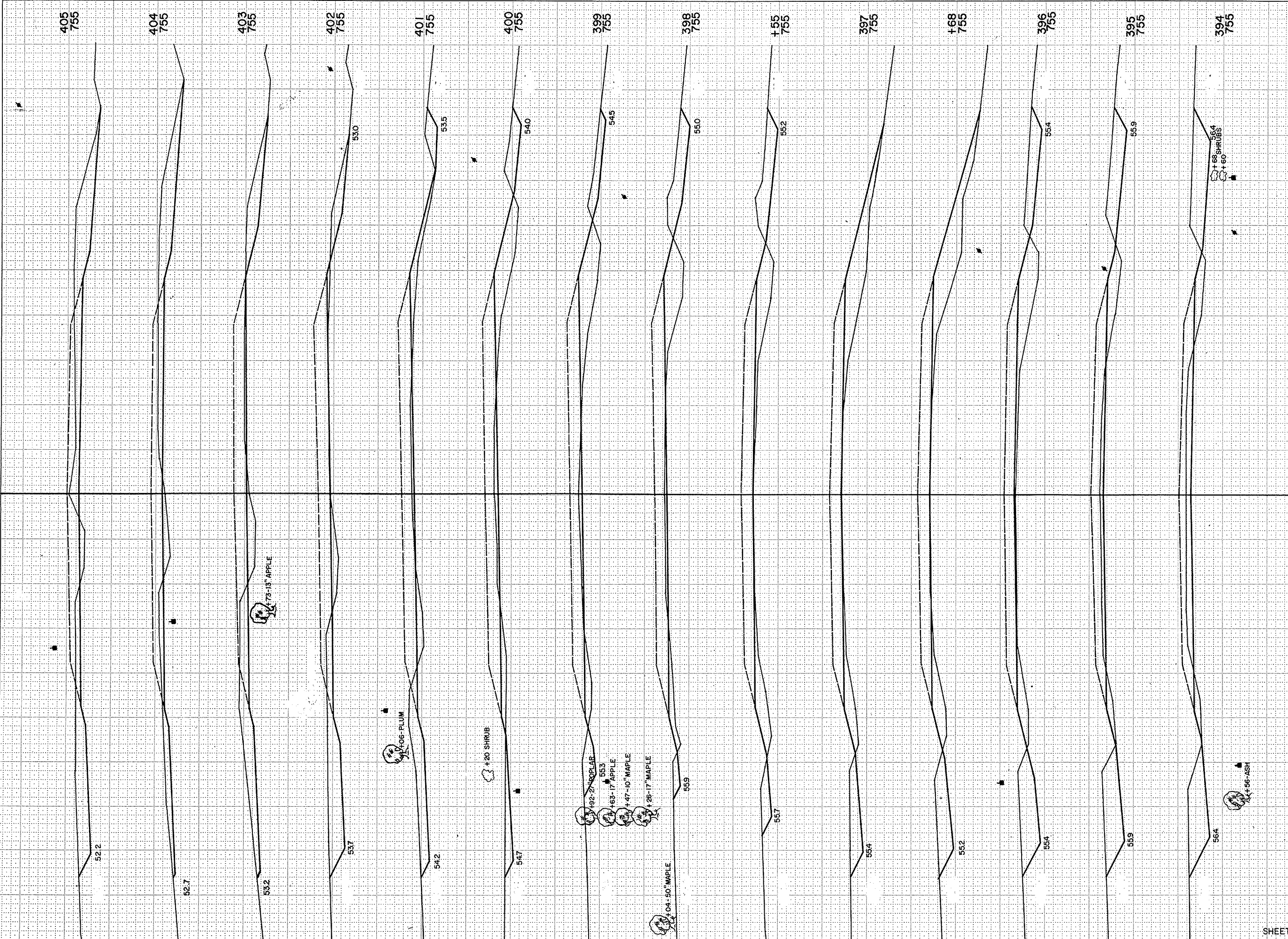
B.P.R. REGION DIVISION	PROJECT	SHEET NUMBER	TOTAL SHEETS
4 WIS.	S 0377(4)	19	25

STATION	DISTANCE	YARDAGE	
		EXCAVATION	FILL
		UNCL	
384		413	4
385		385	0
6			
		157	2
+60		117	4
7			
		300	26
8			
		41	7
+17			
		106	106
+78			
		22	48
9			
		43	30
+30			
		107	20
+82			
		52	6
390			
		311	30
1			
		256	33
2			
		224	33
3			
SHEET TOTAL		2,534	349



SURVY  
 SURVEYED: \_\_\_\_\_  
 PLOTTED: \_\_\_\_\_  
 NOTE BOOK: \_\_\_\_\_  
 NO. 544

SURVY  
 SURVEYED: \_\_\_\_\_  
 PLOTTED: \_\_\_\_\_  
 NOTE BOOK: \_\_\_\_\_  
 NO. 544

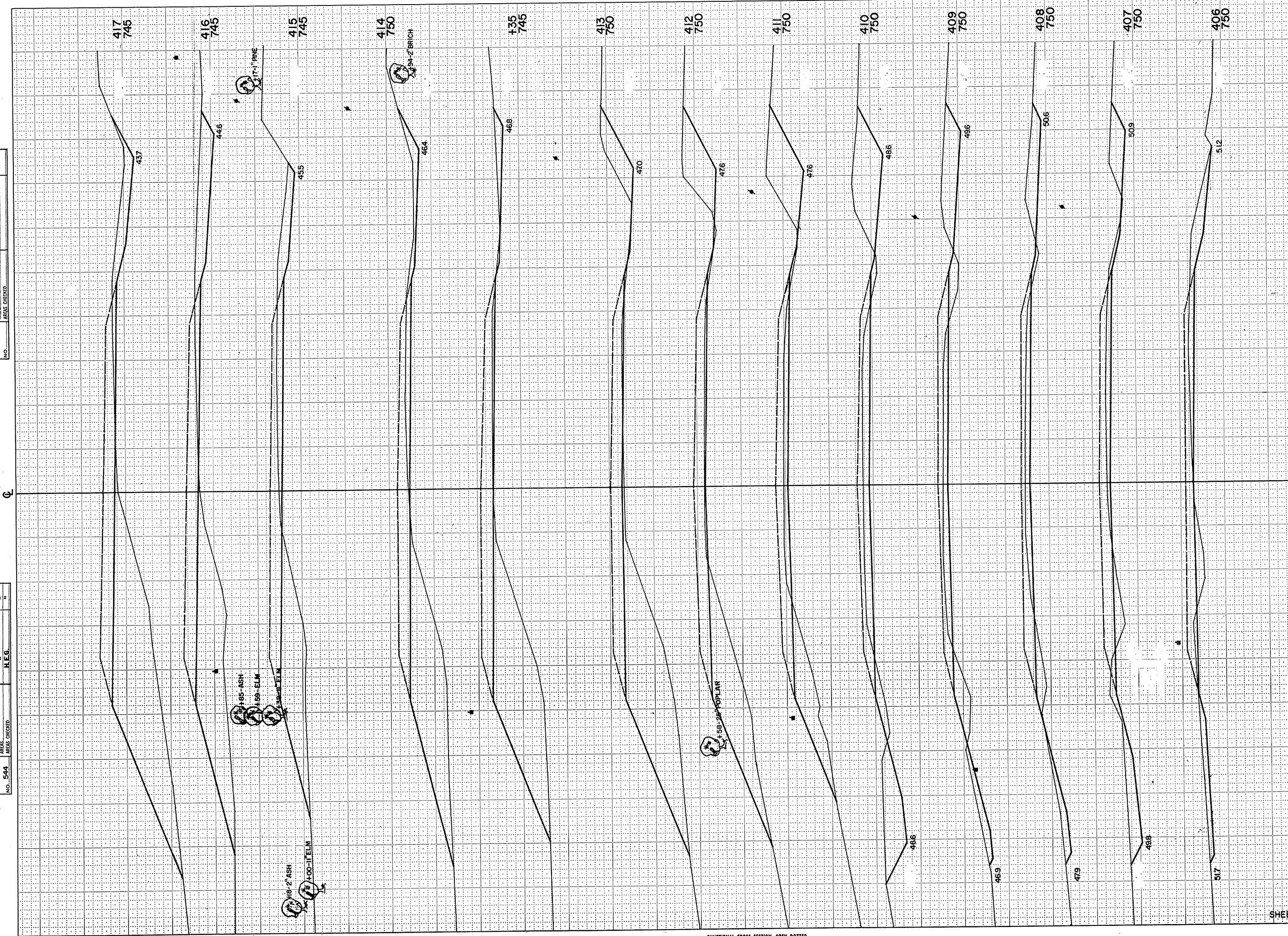


B.P.R. REGION DIVISION	PROJECT	SHEET NUMBER	TOTAL SHEETS
4 WIS.	S 0377(4)	20	25

STATION	DISTANCE	YARDAGE		
		EXCAVATION		FILL
		UNCL		
393		246		30
394		219		41
395		165		87
396		69		96
+68		18		48
397		35		72
+55		37		50
398		83		98
399		85		100
400		106		72
401		137		37
402		165		26
403		213		22
404		257		15
405				
<b>SHEET TOTAL</b>		<b>1,835</b>		<b>794</b>

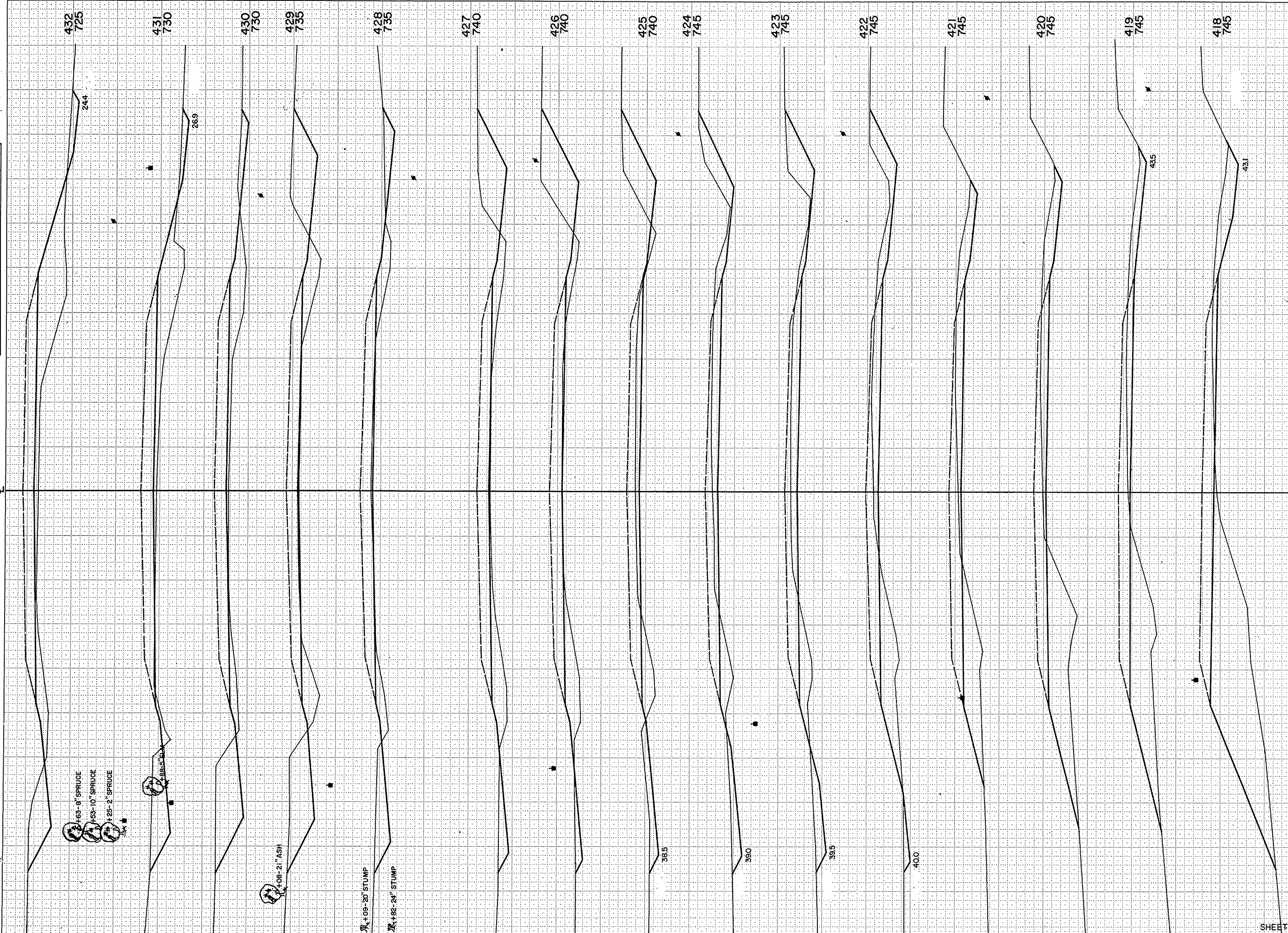


B. R. REGION DIVISION	PROJECT	SHEET NUMBER	TOTAL SHEETS
4 WIS.	S 03774)	21	25



STATION	DISTANCE	YARDAGE	
		UNCL	FILL
405		193	18
406		143	26
407		148	28
408		176	44
409		285	43
410		265	72
411		148	174
412		91	320
413		18	139
+35		39	228
414		93	261
415		104	267
416		78	419
417			
SHEET TOTAL		1781	2039

B.P.R. REGION	PROJECT	SHEET NUMBER	TOTAL SHEETS
4 WIS.	S 0377(4)	22	25



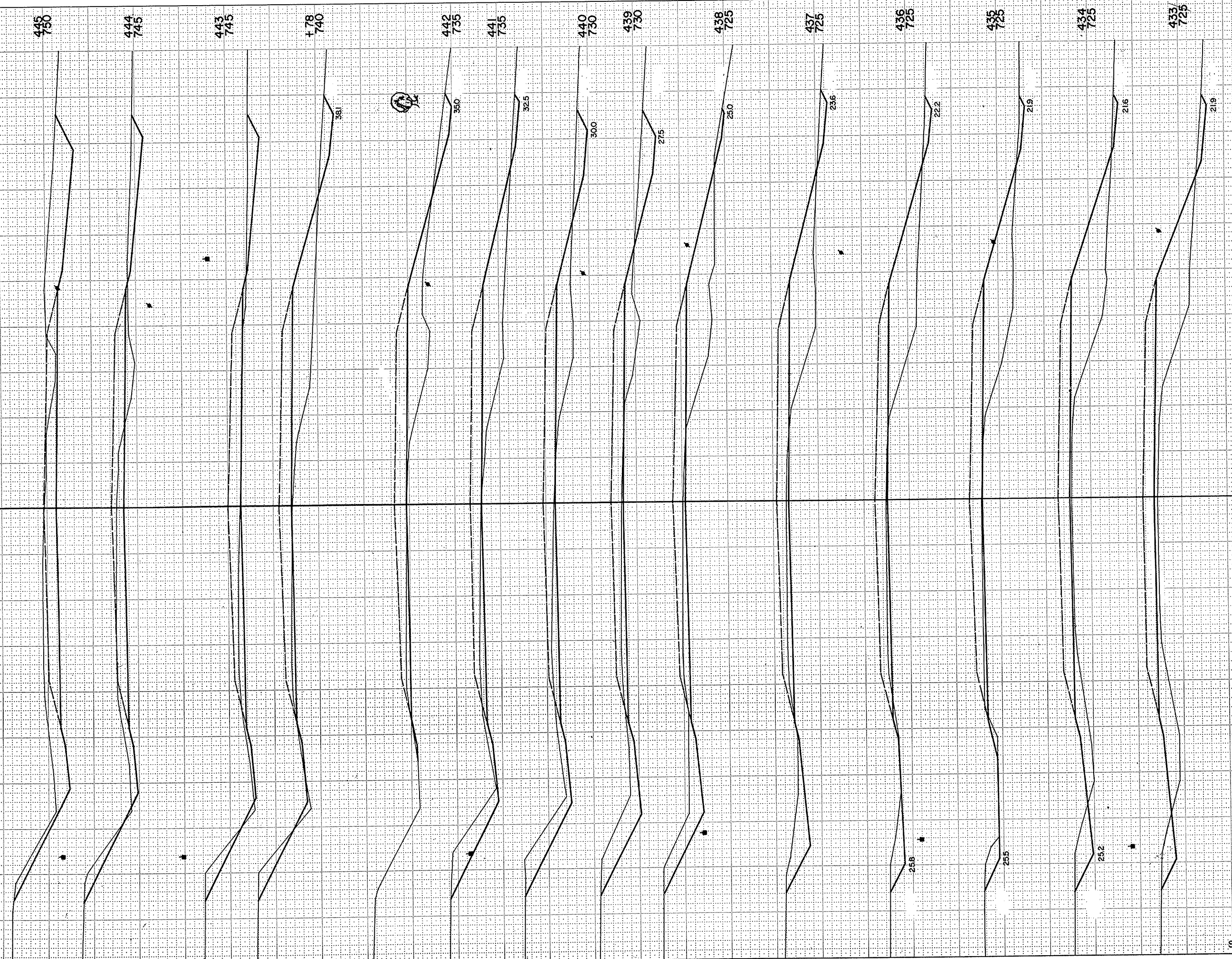
STATION	DISTANCE	YARDAGE		
		UNCL		FILL
417		59		496
418		82		350
419		111		213
420		115		163
421		137		117
422		187		82
423		206		43
424		194		41
425		159		67
426		130		104
427		109		93
428		159		76
429		178		100
430		109		131
431		89		198
432				
<b>SHEET TOTAL</b>		<b>2024</b>		<b>2274</b>

SURVEYED  
 PLOTTED  
 FINAL SURVEY  
 NOTE BOOK  
 AREAS CHECKED  
 NO.

D.C.N.  
 J.V.N.  
 P.G.H.  
 R.L.B.  
 SURVEY  
 NOTE BOOK  
 NO. 544  
 AREAS CHECKED



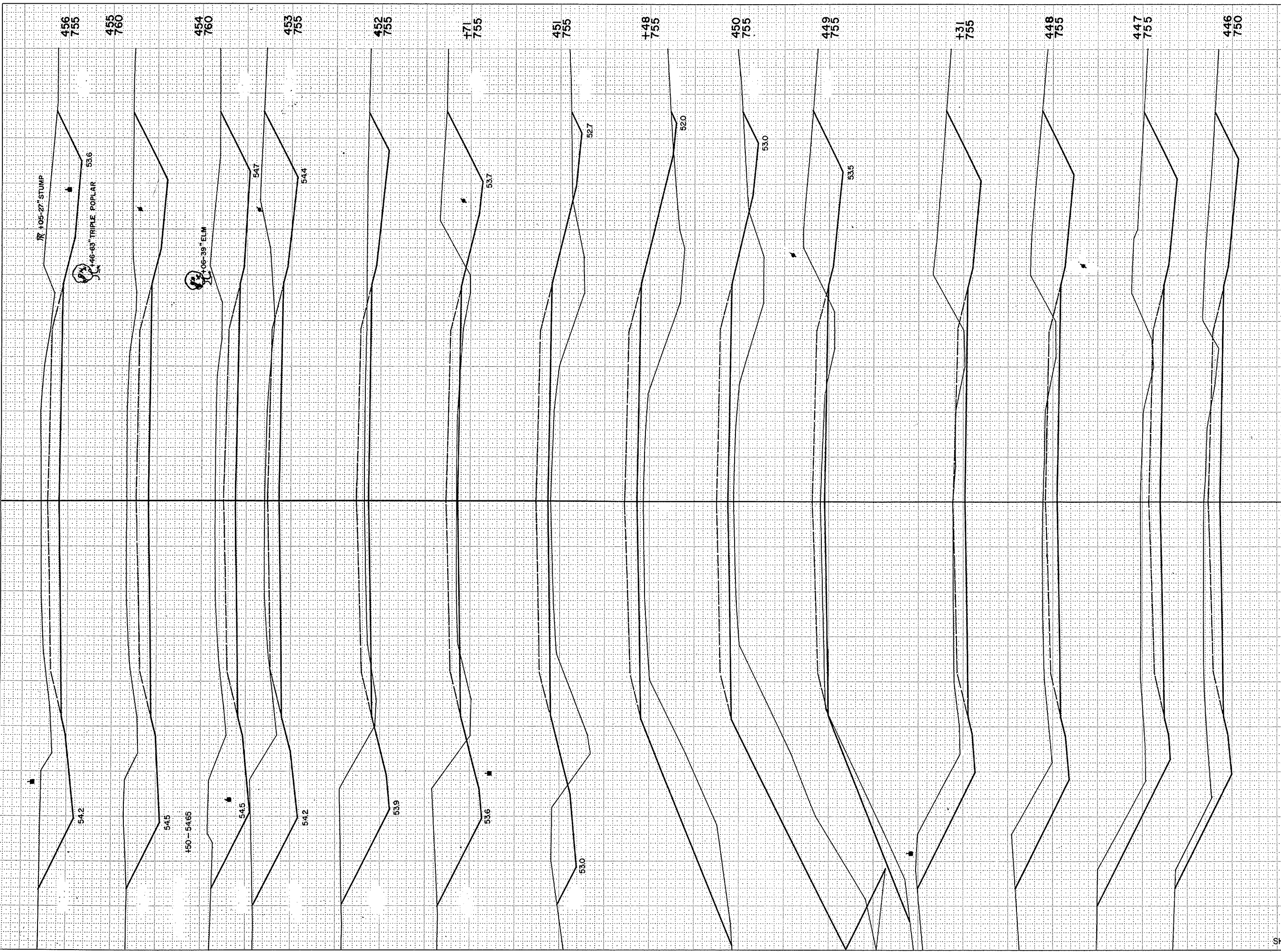
B.P.R. REGION DIVISION	PROJECT	SHEET NUMBER	TOTAL SHEETS
4 WIS.	S 0377(4)	23	25



STATION	DISTANCE	YARDAGE	
		EXCAVATION	
		UNCL	FILL
432		59	313
433		35	357
434		46	274
435		67	209
436		100	183
437		133	172
438		163	120
439		170	80
440		144	137
441		89	150
442		52	117
+78		22	18
443		163	17
444		311	15
445			
SHEET TOTAL		1,554	2,162

SURVEY PLOTTED  
 NOTE BOOK NO. 5416 AREAS CHECKED  
 SURVEY PLOTTED  
 NOTE BOOK NO. 5416 AREAS CHECKED

SURV  
 SURVEY PLOTTED  
 NOTE BOOK NO. 5416 AREAS CHECKED

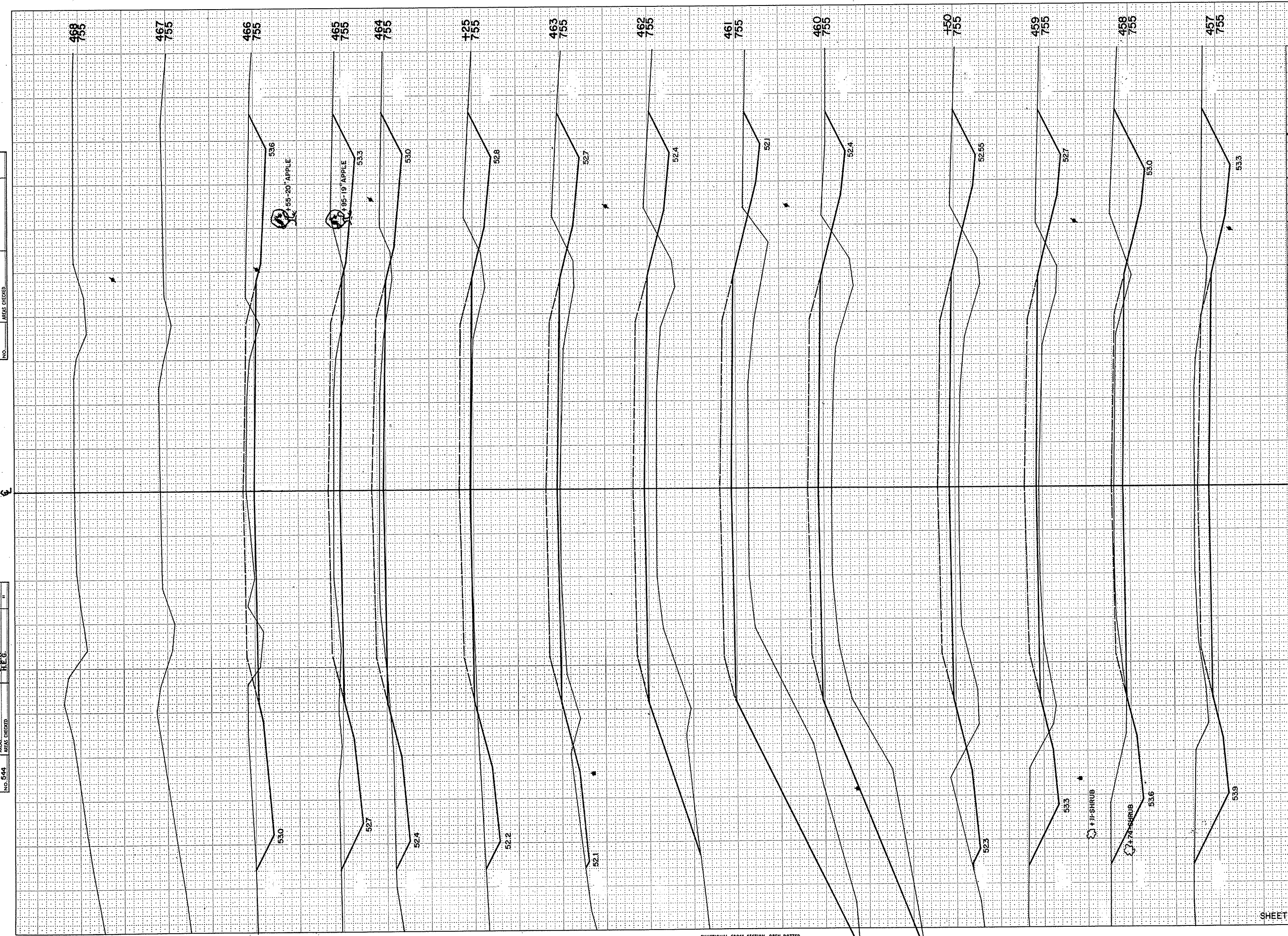


STATION	DISTANCE	YARDAGE	
		EXCAVATION	
		UNCL.	FILL
445		504	0
446		681	0
447		717	0
448		200	0
+31		304	28
449		144	581
450		9	411
+48		32	252
451		187	139
+71		120	9
482		541	4
453		739	0
454		800	0
455		748	0
456			
SHEET TOTAL		5,726	1,424

B.P.R. REGION DIVISION	PROJECT	SHEET NUMBER	TOTAL SHEETS
4 WIS.	S 0377(4)	24	25



B.P.R. REGION DIVISION	PROJECT	SHEET NUMBER	TOTAL SHEETS
4 WIS.	S 0377(4)	25	25



STATION	DISTANCE	YARDAGE	
		EXCAVATION	FILL
		UNCL.	
456		654	0
457		519	4
458		324	80
459		94	122
+50		63	257
460		70	809
461		80	720
462		124	326
463		43	24
+25		172	22
464		293	9
465		208	4
+		5944	
SHEET TOTAL		2,644	2,377

NO. 544  
 PL. 6  
 NO. 544  
 PL. 6  
 NO. 544  
 PL. 6