

Sheet Number	Total Sheets
1	

Index of Sheets

- Sheet No. 1 Title
  - Sheet No. 2-2.1 Typical Cross Sections
  - Sheet No. 3 Estimate of Quantities
  - Sheet No. 3A Miscellaneous Quantities
  - Sheet No. 4-4.5 Right of Way Plat
  - Sheet No. 5-5.7 Plan and Profile STA. 235 + 00 TO STA. 447 + 87.17
  - Sheet No. 6-6.9 Standard Details
  - Sheet No. - Structure Plans
  - Sheet No. 8-8.46 Cross Sections
- Total Sheets = 76

STATE OF WISCONSIN  
**DEPARTMENT OF TRANSPORTATION**  
**DIVISION OF HIGHWAYS**

REVISION OF RIGHT OF WAY  
 3-28-'73

PLAN AND PROFILE OF PROPOSED  
**WEST COUNTY LINE - OSHKOSH**

C.T.H. "FF" - U.S.H. "41" SECTION

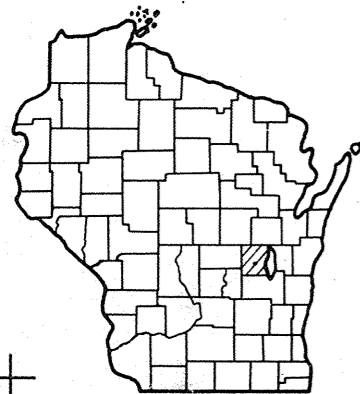
**C.T.H. "E"**

**WINNEBAGO COUNTY**

PROJECT IDENTIFICATION NUMBER	FEDERAL PROJECT DESIGNATION
<b>6460-2-75</b>	<b>S 1260(4)</b>

Scales { Plan 1 in. = 100 ft.  
 Profile Hor. 1 in. = 100 ft. Vert. 1 in. = 10 ft.  
 Cross Sections Hor. 1 in. = 5' Vert. 1 in. = 5'

*Follow up on  
 Revisions*



**BEGINNING OF PROJECT S1260(4) / 6460-2-75**  
**STA. 235 + 00 =**

STA. 235 + 00 OF PROJ. S1260(3) / 6460-2-71, 72, 73.  
 1,889.52 FEET S. 89° - 18' W. OF THE EAST 1/4 CORNER,  
 SECTION 23, T. 18 N., R. 15 E.

**END OF PROJECT S1260(4) / 6460-2-75**  
**STA. 447 + 87.17 =**

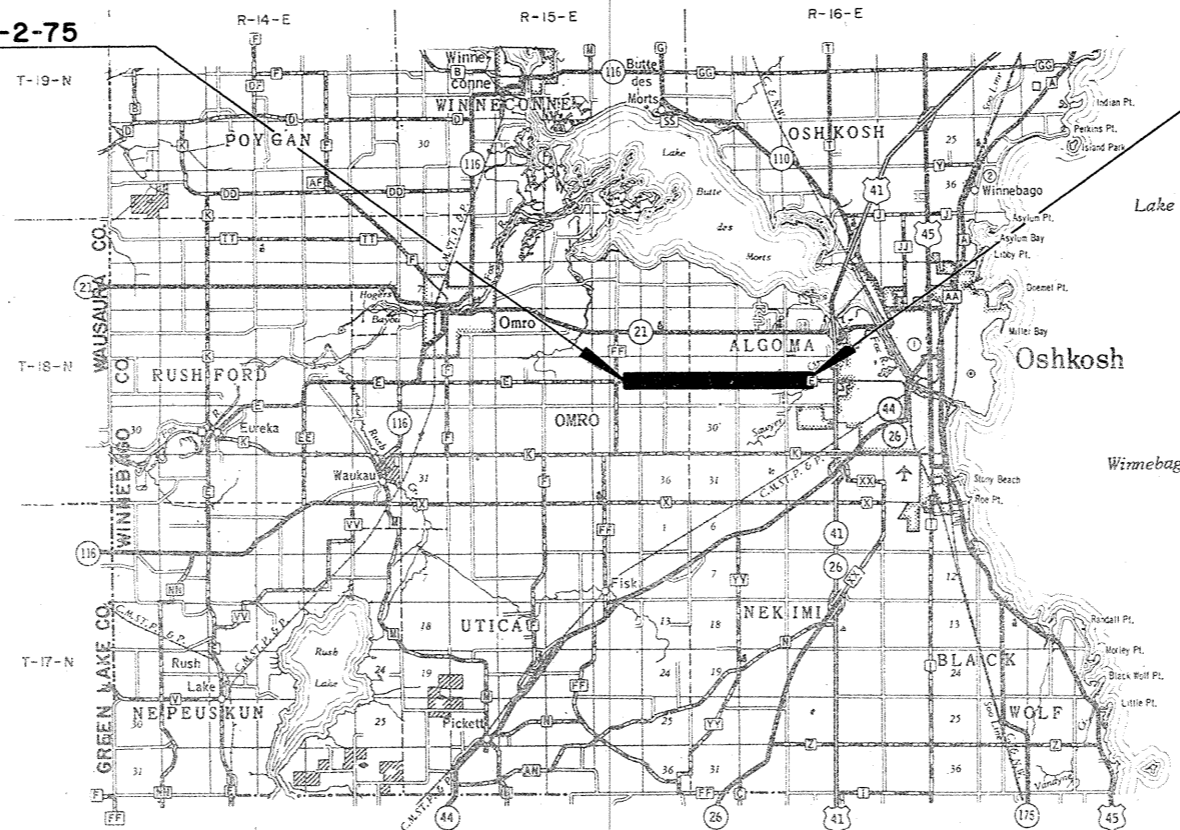
STA. 447 + 87.17 OF PROJ. S1260(3) / 6460-2-71, 72, 73.  
 716.74 FEET S. 89° - 53' E. OF THE CENTER OF SECTION 21,  
 T. 18 N., R. 16 E.

Design Designation

- A. D. T. 1974 = 850
- A. D. T. 1994 = 1,300
- D. H. V. = 180
- D. = 60 %
- T. = 12 %
- V. = 60 M. P. H.

Conventional Signs

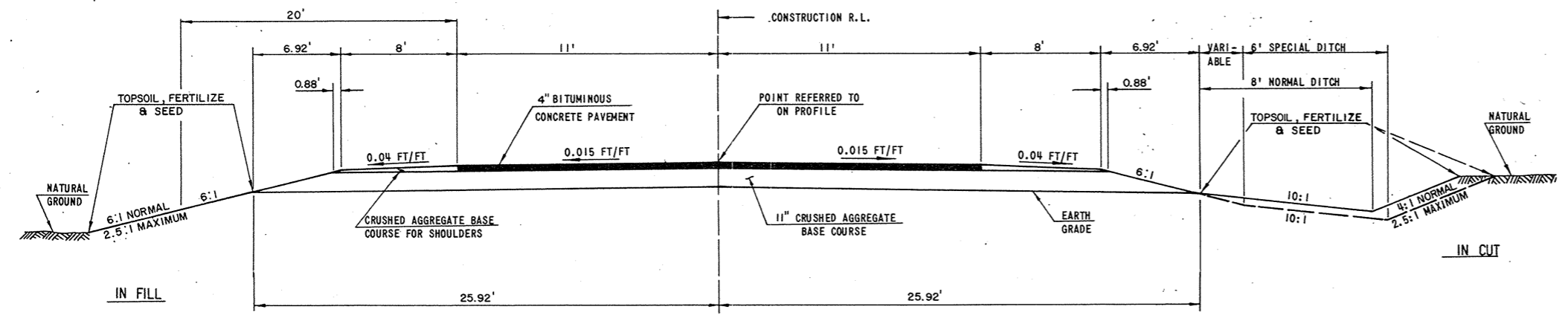
- |                                     |       |   |                  |
|-------------------------------------|-------|---|------------------|
| State Line . . . . .                | ----- | Culverts in Place . . . . .             | -----            |
| County Line . . . . .               | ----- | 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 . . . . .                         | -----            |
| L. Line . . . . .                   | ----- | Hedge . . . . .                         | -----            |
| Corporate or City Limits . . . . .  | ----- | Trees . . . . .                         | -----            |
| Property Line . . . . .             | ----- | Ground Elevation . . . . .              | Datum Line 73.9  |
| Traveled Way or P. E. . . . .       | ----- | Grade Elevation . . . . .               | Datum Line 76.16 |
| Railroads . . . . .                 | ----- |   |                  |
| Base or Survey Line . . . . .       | ----- |   |                  |



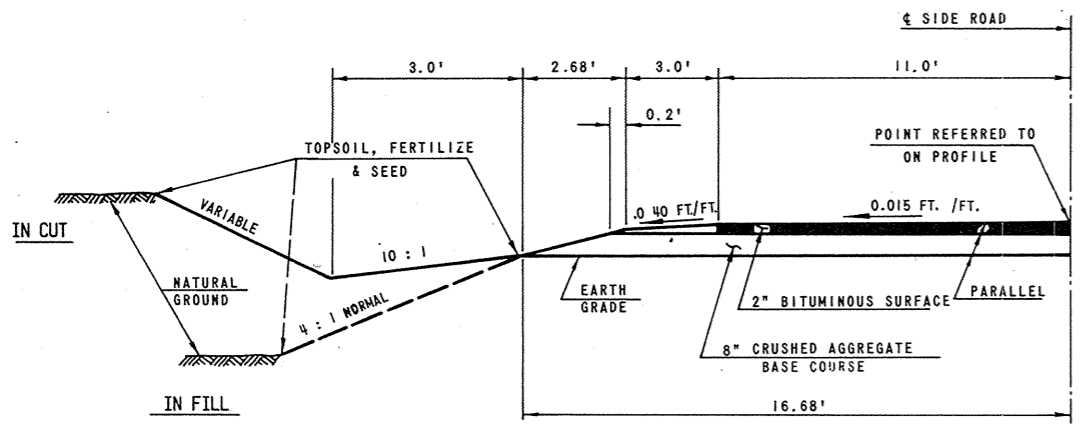
Layout  
 Scale 0 2 Mi.  
 Total Net Length of Centerline = 4.032 Mi.

APPROVED FOR	
WINNEBAGO CO BOARD OF SUPERVISORS BY:	
WINNEBAGO CO., WIS.	
DATE <u>25 Jan '73</u>	SIGNATURE OF OFFICIAL <u>[Signature]</u>
STATE OF WISCONSIN DEPARTMENT OF TRANSPORTATION DIVISION OF HIGHWAYS	
Surveyor <u>R.D.N.</u>	District Checker <u>WRK, D.P.C.</u>
Designer <u>C.W.M., A.A.M.</u>	C.O. Checker <u>R.A.H.</u>
Correct:	
Date <u>1/29/73</u>	<u>C.P. Ryan</u> District Engineer
Recommended for Approval:	
Date <u>3/9/73</u>	<u>J.C. Horned</u> Chief of Facilities Development
Approved:	
Date <u>3/12/73</u>	<u>H.L. Priedler</u> State Highway Engineer
U.S. DEPARTMENT OF TRANSPORTATION FEDERAL HIGHWAY ADMINISTRATION	
REGION 5 WISCONSIN DIVISION	
Approved:	
Date _____ Division Engineer	

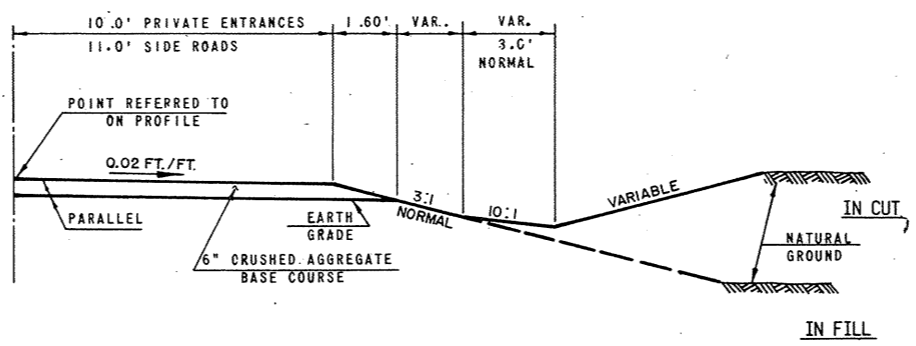
PROJECT I.D. 6460 - 2 - 75	SHEET NUMBER <b>2</b>	TOTAL SHEETS
FEDERAL PROJECT DESIGNATION S 1260(4)		
TYPICAL CROSS SECTIONS FOR C.T.H. "E" WINNEBAGO CO.		



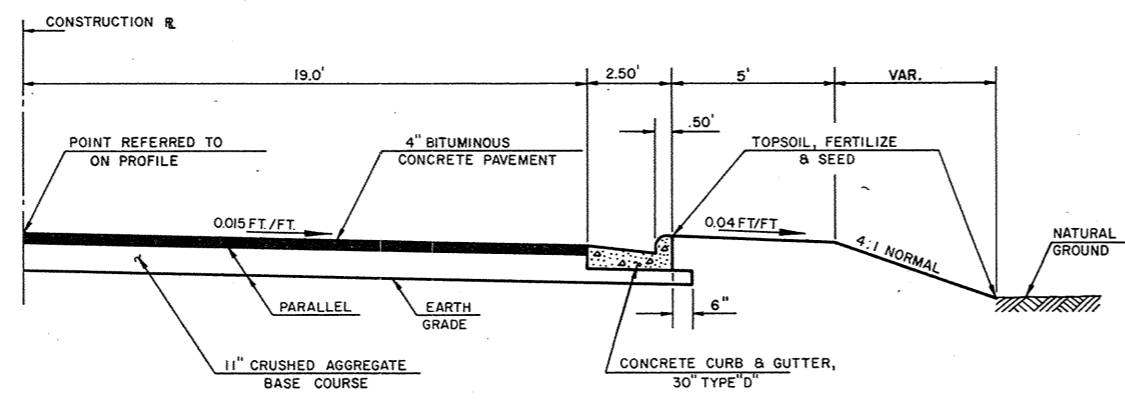
TYPICAL FINISHED SECTION C.T.H. "E"



1/2 TYPICAL SECTION BITUMINOUS SURFACE FOR SIDE ROADS



1/2 SECTION CRUSHED AGGREGATE SURFACE SIDE ROADS AND PRIVATE ENTRANCES



1/2 SECTION CONCRETE CURB & GUTTER SECTION  
STA. 359+63 - STA. 361+05 RT.

- UTILITIES LOCATED WITHIN THIS PROJECT**
- WISCONSIN TELEPHONE COMPANY  
MR. BRUCE MATHEWSON  
70 EAST DIVISION STREET  
FOND DU LAC, WISCONSIN
  - WISCONSIN POWER & LIGHT COMPANY  
MR. C.M. FITZGERALD TELEPHONE 608 - 256 - 3151  
BOX 192  
MADISON, WISCONSIN
  - WISCONSIN PUBLIC SERVICE CORPORATION  
MR. D.D. ADAMS  
OSHKOSH, WISCONSIN

**GENERAL NOTES**

SALVAGED TOPSOIL SHALL BE PLACED TO AN APPROXIMATE DEPTH OF 3 INCHES AT TIME OF PLACING.

CERTAIN UNDERGROUND UTILITY STRUCTURES HAVE BEEN LOCATED ON THESE PLANS. THESE LOCATIONS SHALL NOT BE TAKEN AS CONCLUSIVE. VERIFICATION AS TO THE LOCATION TO THE SATISFACTION OF THE CONTRACTOR OF ALL UNDERGROUND UTILITY STRUCTURES, WHETHER SHOWN ON THE PLANS OR NOT, SHALL BE ASSUMED AS A CONDITION OF THE CONTRACT.

THE EXACT LOCATION OF CULVERT PIPE, PRIVATE ENTRANCES AND FIELD ENTRANCES SHALL BE DETERMINED BY THE ENGINEER IN THE FIELD.

CUBIC YARDS OF FILL AS SHOWN ON THE PLAN SHEETS PERTAINS TO EMBANKMENT CONSTRUCTED FROM UNCLASSIFIED AND BORROW EXCAVATION AND WAS COMPUTED WITH A SHRINKAGE ALLOWANCE OF 25% - 30% FOR UNCLASSIFIED EXCAVATION AND 15% FOR BORROW EXCAVATION BASED ON THE VOLUME OF THE FILL.

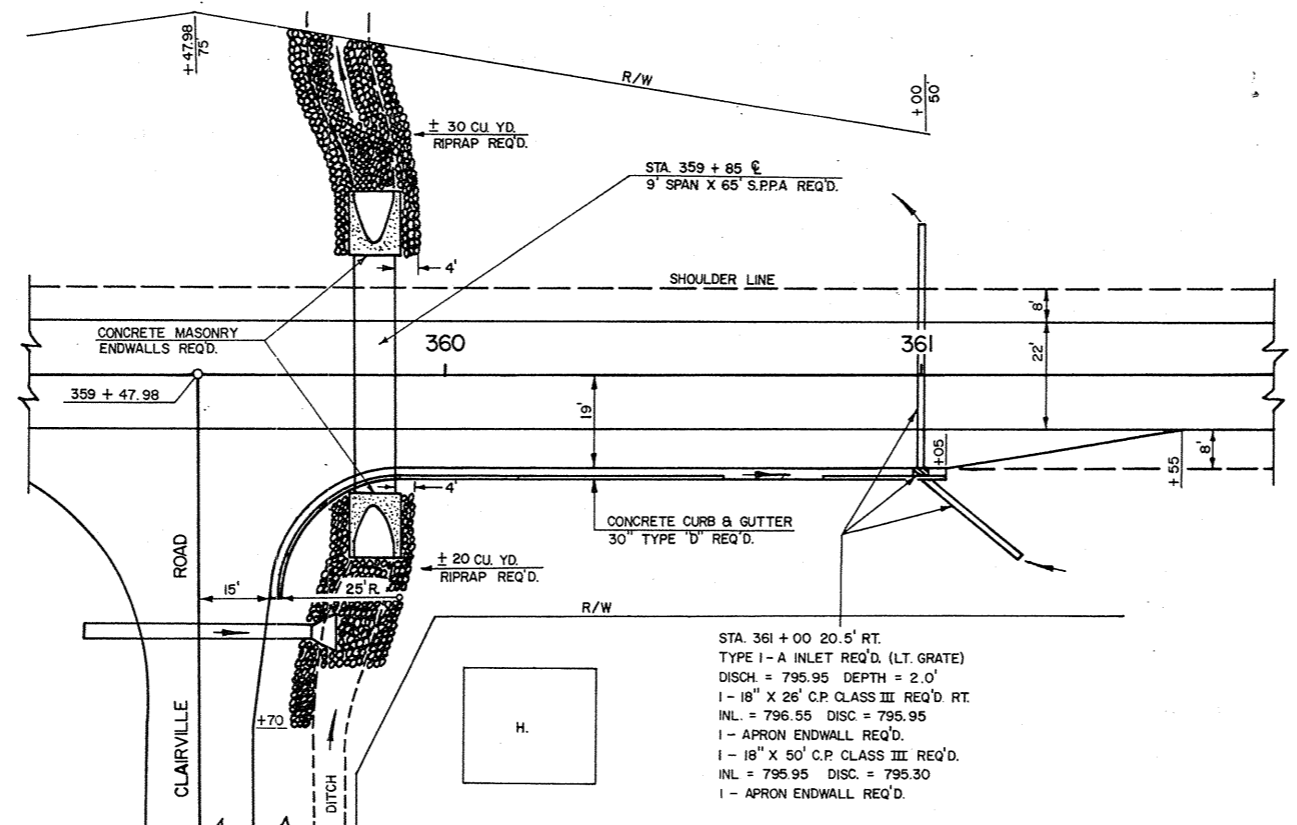
BITUMINOUS SURFACING AND BASE COURSE ARE NOT PART OF THIS CONTRACT.

UNLESS OTHERWISE NOTED, ALL SIDE ROAD INTERSECTIONS SHALL BE TYPE "C"

**STANDARD DETAIL DRAWINGS**

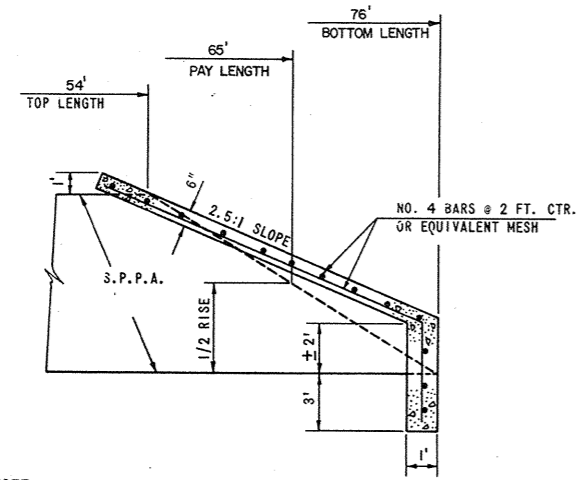
INLETS TYPE 1 & 2 & INLET COVERS	8C1-2
CONCRETE CURB & GUTTER	8D1-1
APRON ENDWALLS	8F1-2
CORRUGATED METAL PIPE ARCH	8F2-1
SIDE ROAD INTERSECTIONS	9A1-1
CLASS "A" STEEL PLATE BEAM GUARD	14B2-2 A&B
MARKER POSTS	15A1-1
CONSTRUCTION BARRICADE	15C1-2
LANDMARK REFERENCE MONUMENTS	16A1-1

PROJECT I. D. 6460-2-75	SHEET NUMBER <b>2.1</b>	TOTAL SHEETS
FEDERAL PROJECT DESIGNATION S1260 (4)		
CONSTRUCTION DETAILS FOR C. T. H. "E" WINNEBAGO COUNTY		



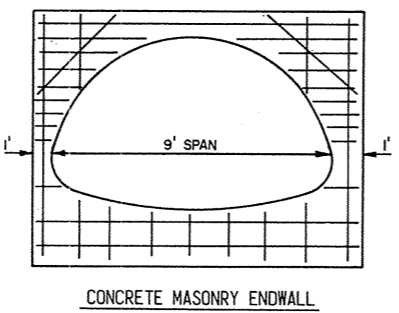
DETAIL OF CONCRETE CURB & GUTTER

STA. 361 + 00 20.5' RT.  
TYPE 1 - A INLET REQ'D. (LT. GRATE)  
DISCH. = 795.95 DEPTH = 2.0'  
1 - 18" X 26" C.P. CLASS III REQ'D. RT.  
INL. = 796.55 DISC. = 795.95  
1 - APRON ENDWALL REQ'D.  
1 - 18" X 50" C.P. CLASS III REQ'D.  
INL. = 795.95 DISC. = 795.30  
1 - APRON ENDWALL REQ'D.

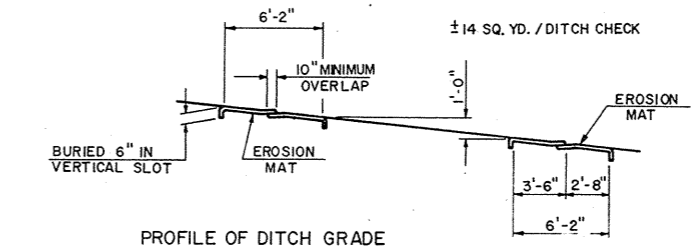


STRUCTURAL PLATE PIPE ARCH  
STA 359 + 85

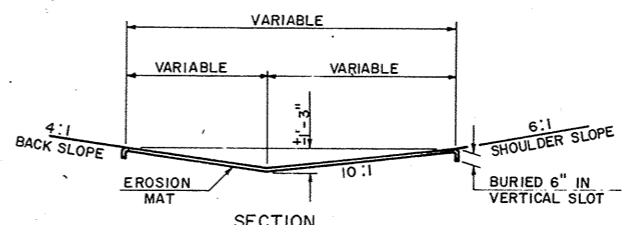
NOTE THE ITEM OF CONCRETE MASONRY ENDWALLS INCLUDES BAR STEEL REINFORCEMENT PLACED AS SHOWN.



CONCRETE MASONRY ENDWALL

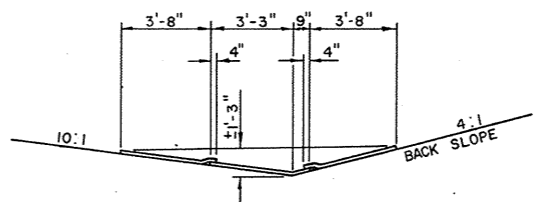


PROFILE OF DITCH GRADE



SECTION

DETAILS OF EROSION MAT DITCH CHECKS



EROSION MAT DITCH PROTECTION

# ESTIMATE OF QUANTITIES

CONTRACT NO. 1 (6460-2-75)  
GRADING

PROJECT I. D. 6460-2-75	SHEET NUMBER	TOTAL SHEETS
FEDERAL PROJECT DESIGNATION S 1260 (4)	3	

THIS PROJECT IS TO BE EXECUTED UNDER THE STANDARD SPECIFICATIONS FOR ROAD AND BRIDGE CONSTRUCTION OF THE WISCONSIN DIVISION OF HIGHWAYS - EDITION OF 1969, APPROVED MARCH 3, 1969, FEDERAL AID REQUIRED CONTRACT PROVISIONS APPROVED NOVEMBER 15, 1968, AND SPECIAL PROVISIONS AS ATTACHED TO PROPOSALS.

CONTRACT NO.	STATION TO STATION	NET LENGTH OF CENTER LINE	CLEARING	GRUBBING	UNCLASSIFIED EXCAVATION	BORROW EXCAVATION	FINISHING ROADWAY	CRUSHED AGGREGATE BASE COURSE	CULVERT PIPE CLASS III				APRON ENDWALLS FOR CULVERT PIPE				CORRUGATED METAL PIPE ARCH				METAL APRON ENDWALLS FOR PIPE ARCH				STRUCTURAL PLATE PIPE ARCH, 9' SPAN	CONCRETE CURB & GUTTER, 30-INCH, TYPE "D"
									18 - INCH	24 - INCH	30 - INCH	36 - INCH	18 - INCH	24 - INCH	30 - INCH	36 - INCH	22" X 13"	29" X 18"	36" X 22"	50" X 31"	22" X 13"	29" X 18"	36" X 22"	50" X 31"		
									52003	52005	52007	52009	52061	52063	52065	52067	52136	52138	52139	52141	52162	52164	52165	52167		
	ITEM NO.	LIN. FT.	IN. DIA.	IN. DIA.	CU. YD.	CU. YD.	L.S.	TON	LIN. FT.	LIN. FT.	LIN. FT.	LIN. FT.	EACH	EACH	EACH	EACH	LIN. FT.	LIN. FT.	LIN. FT.	LIN. FT.	EACH	EACH	EACH	EACH	LIN. FT.	LIN. FT.
1	STA.235+00 TO STA.447+87.17	21,287.17	1,544	1,608	40,179	897	1		832	194	130	48	54	8	10	2	942	132	92	188	68	4	4	6	65	155
<b>PROJECT TOTALS</b>		21,287.17	1,544	1,608	40,179	897	1		832	194	130	48	8	10	2	2	942	132	92	188	68	4	4	6	65	155

CONTRACT NO.	RIPRAP	INLETS, TYPE I	INLET COVERS, TYPE "A"	ANCHORAGES FOR STEEL PLATE BEAM GUARD	STEEL PLATE BEAM GUARD, CLASS "A"	MARKER POSTS	LANDMARK REFERENCE MONUMENTS	CALCIUM CHLORIDE SURFACE TREATMENT	SALVAGED TOPSOIL	EROSION MAT	FERTILIZER	SEEDING	FIELD OFFICE, TYPE "A"	CONCRETE MASONRY ENDWALLS														
															60601	61121	61161	61406	61408	61421	62101	62301	62505	62802	62901	63002	64201	90001
															CU. YD.	EACH	EACH	EACH	LIN. FT.	EACH	EACH	TON	SQ. YD.	SQ. YD.	CWT.	LB.	L.S.	CU. YD.
1	50	1	1	4	399	18	9	39	85,000	5,000	40	1,200	1	4														
<b>TOT.</b>	50	1	1	4	399	18	9	39	85,000	5,000	40	1,200	1	4														

## DETAIL SUMMARY SHEET OF MISCELLANEOUS QUANTITIES

PROJECT I.D. 6460 - 2 - 75	SHEET NUMBER	TOTAL SHEETS
FEDERAL PROJECT DESIGNATION S1260 (4)	3A	

### PIPE CULVERTS

CONTRACT NUMBER	STATION	LOCATION	DIAMETER INCHES	LENGTH LIN. FT.	TYPE	APRON ENDWALLS	MARKER POSTS
46	236 + 25	R	29 X 18	66	C. M. P. A.	2	2
77	257 + 65	R	24	64	CULVERT PIPE CLASS III	2	2
	259 + 76	P. E. RIGHT	30	26	"	2	2
48	263 + 30	R	36 X 22	64	C. M. P. A.	2	2
47	270 + 36	R	24	64	CULVERT PIPE CLASS III	2	2
50	296 + 14	R	50 X 31	68	C. M. P. A.	2	2
	304 + 82	P. E. LEFT	22 X 13	28	"	2	
	305 + 43	P. E. LEFT	22 X 13	28	"	2	
	310 + 43	P. E. LEFT	22 X 13	28	"	2	
	320 + 58	P. E. LEFT	22 X 13	28	"	2	
	322 + 48	P. E. LEFT	22 X 13	28	"	2	
	323 + 97	P. E. LEFT	22 X 13	28	"	2	
	324 + 13	P. E. RIGHT	22 X 13	28	"	2	
	326 + 63	SIDE ROAD LEFT	18	42	CULVERT PIPE CLASS III	2	
	329 + 00	P. E. LEFT	22 X 13	28	C. M. P. A.	2	
	333 + 35	P. E. RIGHT	36 X 22	28	"	2	
	341 + 25	P. E. RIGHT	30	26	CULVERT PIPE CLASS III	2	
	341 + 96	SIDE ROAD LEFT	24	38	"	2	
	345 + 07	P. E. LEFT	30	26	"	2	
	345 + 60	P. E. LEFT	30	26	"	2	
57	351 + 00	R	50 X 31	60	C. M. P. A.	2	2
	351 + 00	R	50 X 31	60	"	2	
	358 + 90	P. E. LEFT	30	26	CULVERT PIPE CLASS III	2	
	359 + 48	SIDE ROAD RIGHT	36	48	"	2	
52	359 + 85	R	9' SPAN	65	S. P. P. A.		2
53	361 + 00	R	18	50	CULVERT PIPE CLASS III	1	1
	361 + 00	RIGHT	18	26	"	1	1
	362 + 85	P. E. LEFT	22 X 13	28	C. M. P. A.	2	
	366 + 05	P. E. LEFT	22 X 13	26	"	2	
	366 + 50	P. E. LEFT	22 X 13	26	"	2	
	367 + 25	P. E. RIGHT	22 X 13	26	"	2	
	368 + 55	P. E. LEFT	22 X 13	26	"	2	
	369 + 65	P. E. RIGHT	22 X 13	26	"	2	
	370 + 42	P. E. RIGHT	22 X 13	26	"	2	
	371 + 90	P. E. RIGHT	22 X 13	28	"	2	
	372 + 90	P. E. RIGHT	22 X 13	28	"	2	
54	385 + 06	R	29 X 18	66	"	2	2
	390 + 00	P. E. LEFT	22 X 13	26	"	2	
	392 + 00	P. E. RIGHT	22 X 13	26	"	2	
	394 + 00	P. E. RIGHT	22 X 13	26	"	2	
	400 + 00	P. E. LEFT	22 X 13	28	"	2	
	401 + 25	P. E. LEFT	22 X 13	28	"	2	
	402 + 00	P. E. RIGHT	22 X 13	28	"	2	
	402 + 40	P. E. LEFT	22 X 13	28	"	2	
	403 + 45	P. E. LEFT	22 X 13	28	"	2	
	403 + 45	P. E. RIGHT	22 X 13	28	"	2	
	405 + 00	P. E. LEFT	22 X 13	28	"	2	
	405 + 75	P. E. RIGHT	22 X 13	28	"	2	
	406 + 59	P. E. RIGHT	22 X 13	28	"	2	
	407 + 00	P. E. RIGHT	22 X 13	28	"	2	
	407 + 95	SIDE ROAD LEFT	18	44	CULVERT PIPE CLASS III	2	
	408 + 00	P. E. RIGHT	22 X 13	28	C. M. P. A.	2	
	409 + 19	SIDE ROAD RIGHT	18	38	CULVERT PIPE CLASS III	2	
	410 + 22	P. E. RIGHT	22 X 13	26	C. M. P. A.	2	
	411 + 17	P. E. RIGHT	22 X 13	26	"	2	
	413 + 33	SIDE ROAD LEFT	18	44	CULVERT PIPE CLASS III	2	
	413 + 33	SIDE ROAD RIGHT	22 X 13	40	C. M. P. A.	2	
	446 + 00	P. E. LEFT	24	28	CULVERT PIPE CLASS III	2	
	21 P. E. 'S @		18' X 28'	588	"	44	

### STEEL PLATE BEAM GUARD

CONTRACT NUMBER	LOCATION	LIN. FT.	ANCHORAGES
1	STA. 359 + 10 TO STA. 360 + 51.4 LEFT	141.4	2
1	B - 70 - 64 WEST END RIGHT	128.8	1
1	B - 70 - 64 WEST END LEFT	128.8	1

### CLEARING & GRUBBING

CONTRACT NUMBER	STATION TO STATION	CLEARING IN. DIA.	GRUBBING IN. DIA.
1	235 + 00 - 265 + 00	409	409
1	265 + 00 - 295 + 00	-	-
1	295 + 00 - 415 + 00	1,135	1,199

### LANDMARK REFERENCE MONUMENTS

CONTRACT NUMBER	STATION	NUMBER	REMARKS
1	280 + 60.92	3	CENTER OF SECTION
1	413 + 32.79	3	1/4 CORNER
1	440 + 70.43	3	CENTER OF SECTION

### RIPRAP

CONTRACT NUMBER	LOCATION	CU. YDS.
1	S. P. P. A. STA. 359 + 85 LEFT	30
1	S. P. P. A. STA. 359 + 85 RIGHT	20

### SEEDING

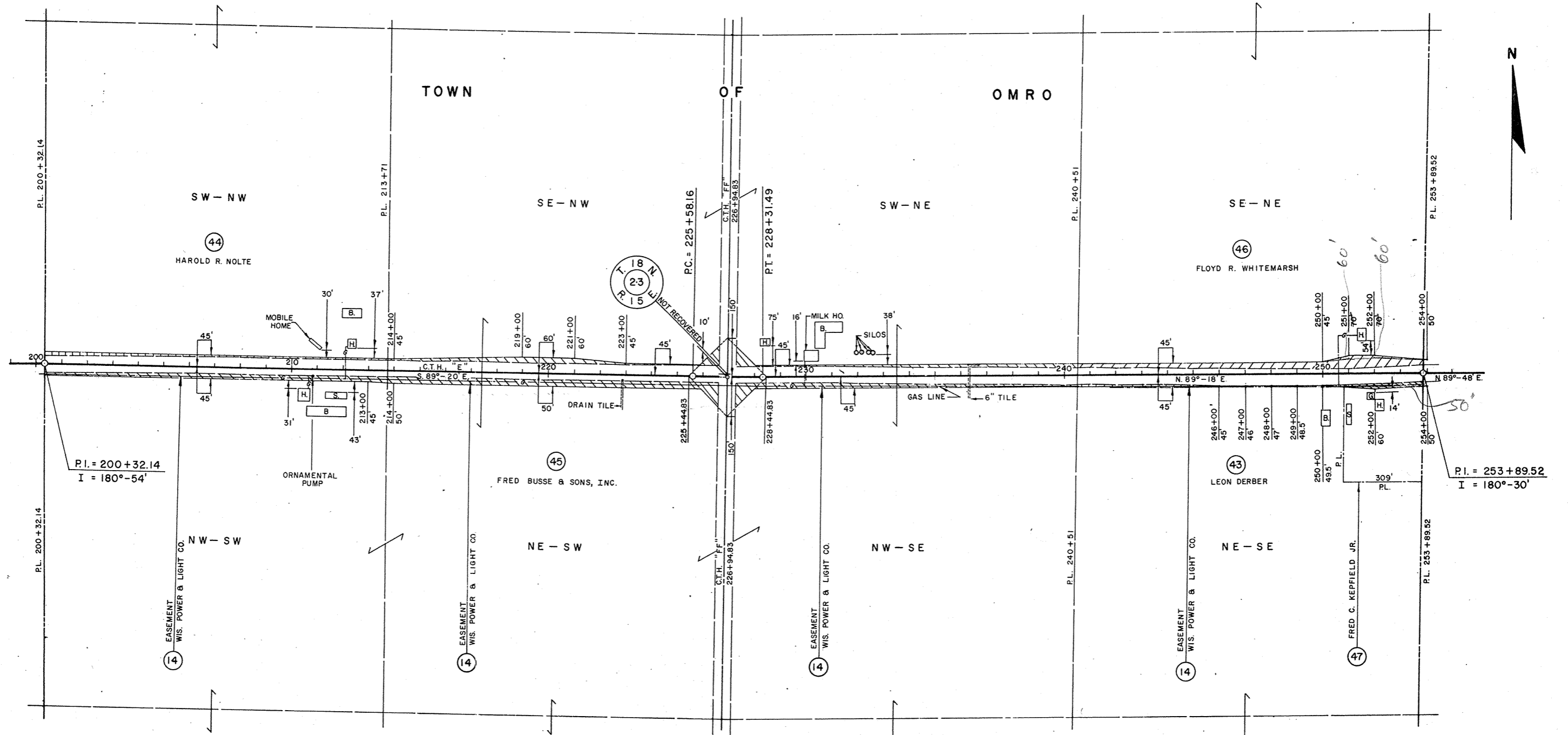
CONTRACT NUMBER	TYPE MIX	POUNDS	SQ. YDS. APPROXIMATE
1	NUMBER 1	1,200	85,000

\* SEE DETAIL DRAWING



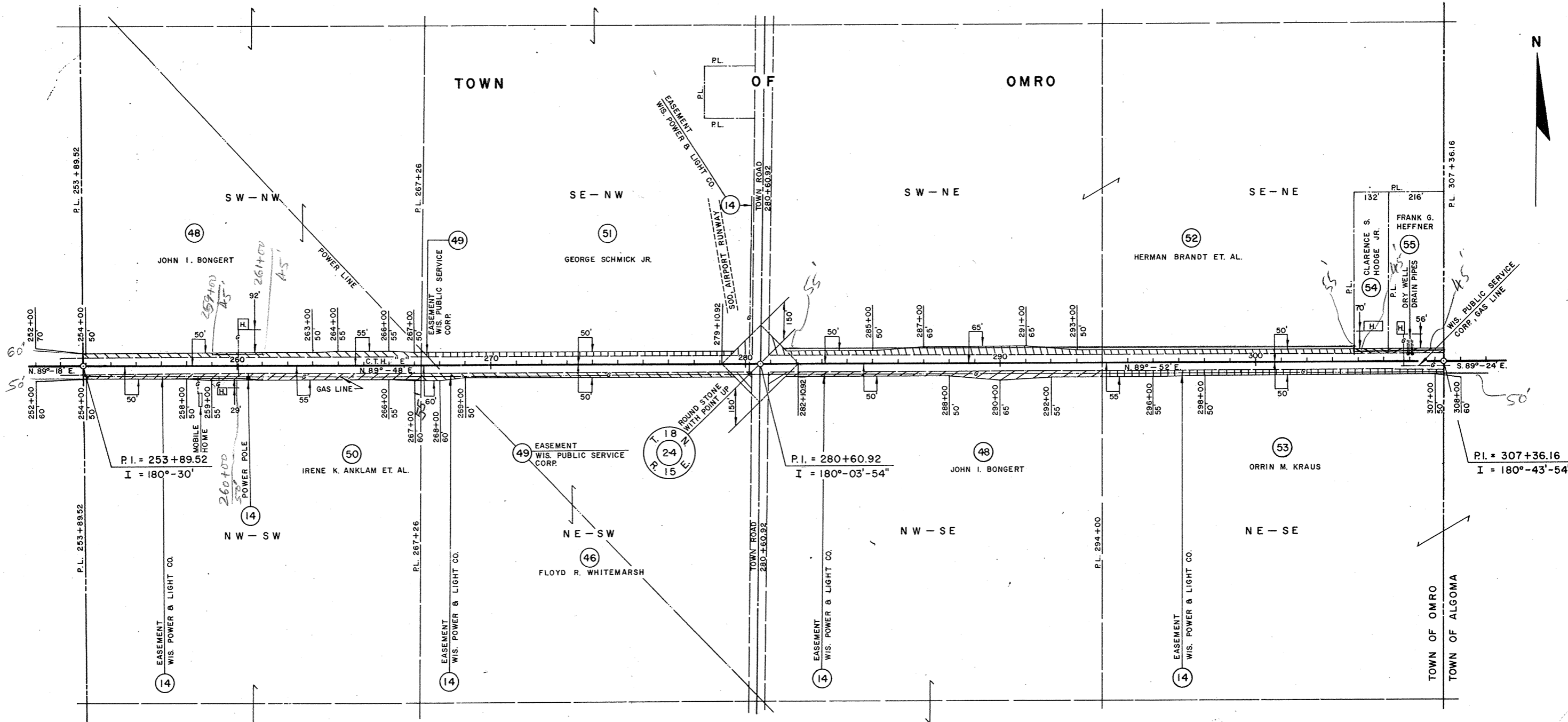
P.I. = 226 + 94.83  
 I = 178° - 38'  
 Δ = 1° - 22'  
 D = 0° - 30'  
 T = 136.67'  
 L = 273.33'  
 E = 0.82'  
 R = 11,459.16'

REVISION DATE	PROJECT I.D.	SHEET NUMBER	TOTAL SHEETS
4-28-72	6460 2 00		
	N. C.		
	FEDERAL PROJECT DESIGNATION	4.6	
	PLAT OF RIGHT OF WAY REQUIRED C.T.H. "E" WINNEBAGO COUNTY-		
	SCALE 400 FT.		
	DATE 3-28-72		
CONST. PROJECT		S1260(4)/6460-2-75	4.1



NOTE:  
 BEARINGS SHOWN ON THIS PLAT ARE THE TRUE  
 BEARINGS OF EACH TANGENT TO THE NEAREST MINUTE.

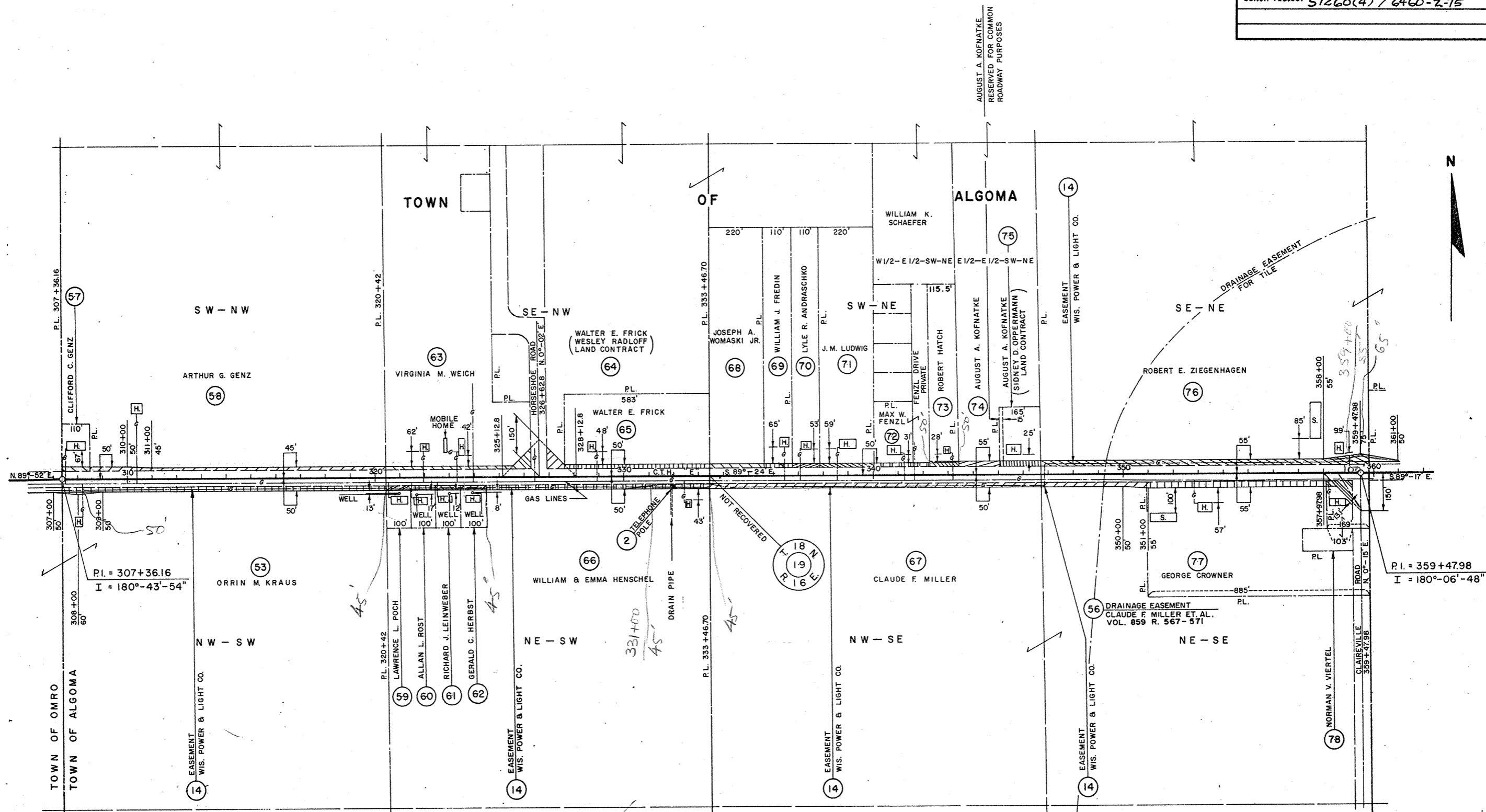
REVISION DATE	PROJECT I.D.	SHEET NUMBER	TOTAL SHEETS
4-28-72	6460 2 00		
	FEDERAL PROJECT DESIGNATION		4.7
PLAT OF RIGHT OF WAY REQUIRED C.T.H. "E" WINNEBAGO COUNTY			
SCALE 400 Ft.			
DATE 3-28-72			
CONST. PROJECT S1260(4)/6460-2-75			4.2



NOTE:  
BEARINGS SHOWN ON THIS PLAT ARE THE TRUE BEARINGS OF EACH TANGENT TO THE NEAREST MINUTE.

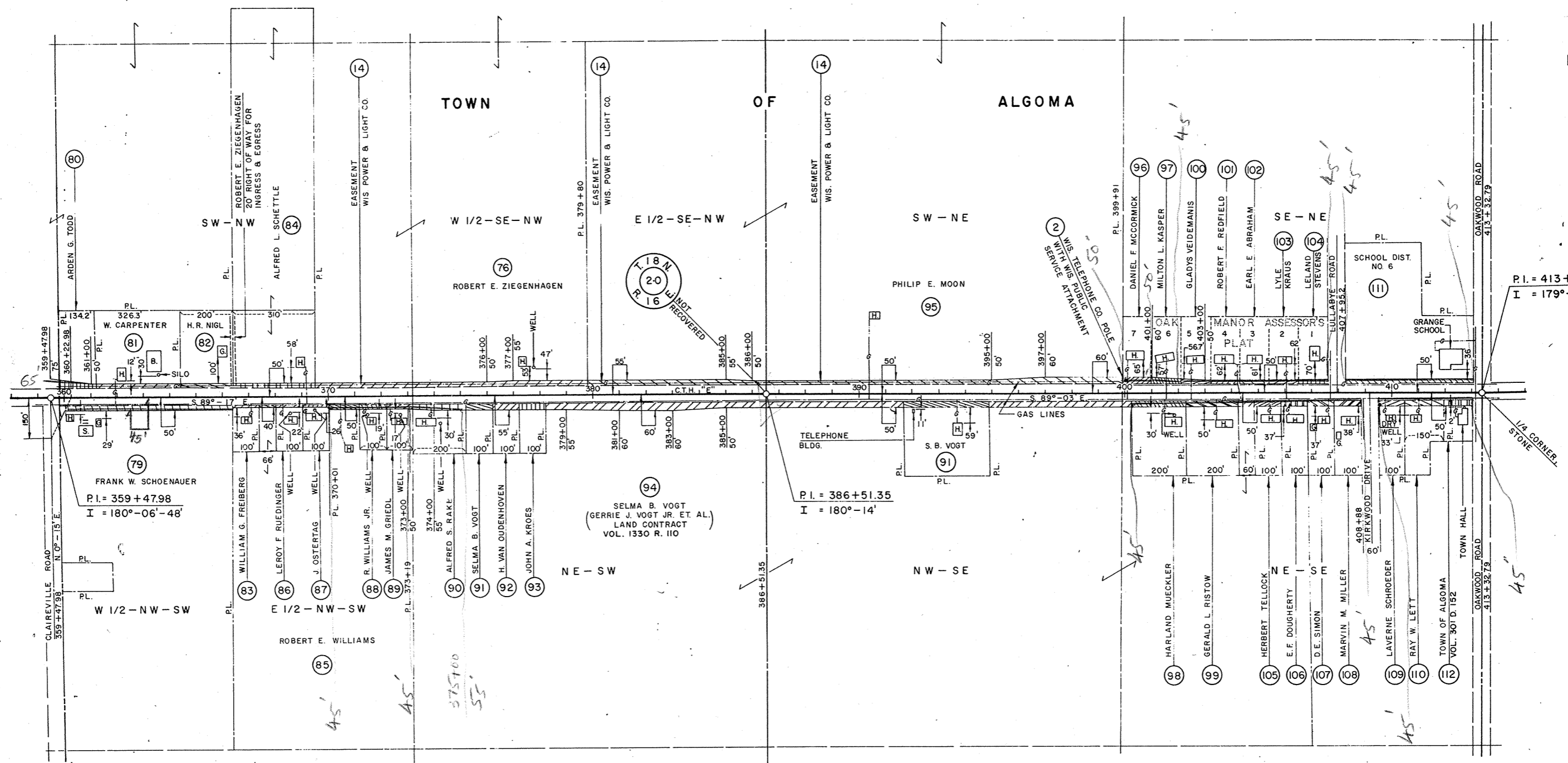


REVISION DATE	PROJECT I.D.	SHEET NUMBER	TOTAL SHEETS
4-28-72	6460 2 00	4.8	
FEDERAL PROJECT DESIGNATION			
PLAT OF RIGHT OF WAY REQUIRED C.T.H. "E" WINNEBAGO COUNTY			
SCALE 400 Ft.			
DATE 3-28-72			
CONST. PROJECT 51260(4) / 6460-2-75		4.3	



NOTE:  
BEARINGS SHOWN ON THIS PLAT ARE THE TRUE BEARINGS OF EACH TANGENT TO THE NEAREST MINUTE.

REVISION DATE	PROJECT I.D.	SHEET NUMBER	TOTAL SHEETS
4-28-72 N.C.	6460 2 00		
FEDERAL PROJECT DESIGNATION		4.9	
PLAT OF RIGHT OF WAY REQUIRED C.T.H. "E" WINNEBAGO COUNTY			
SCALE 400 Ft.			
DATE 3-28-72			
CONST. PROJECT S1260(4) / 6460-2-75		44	

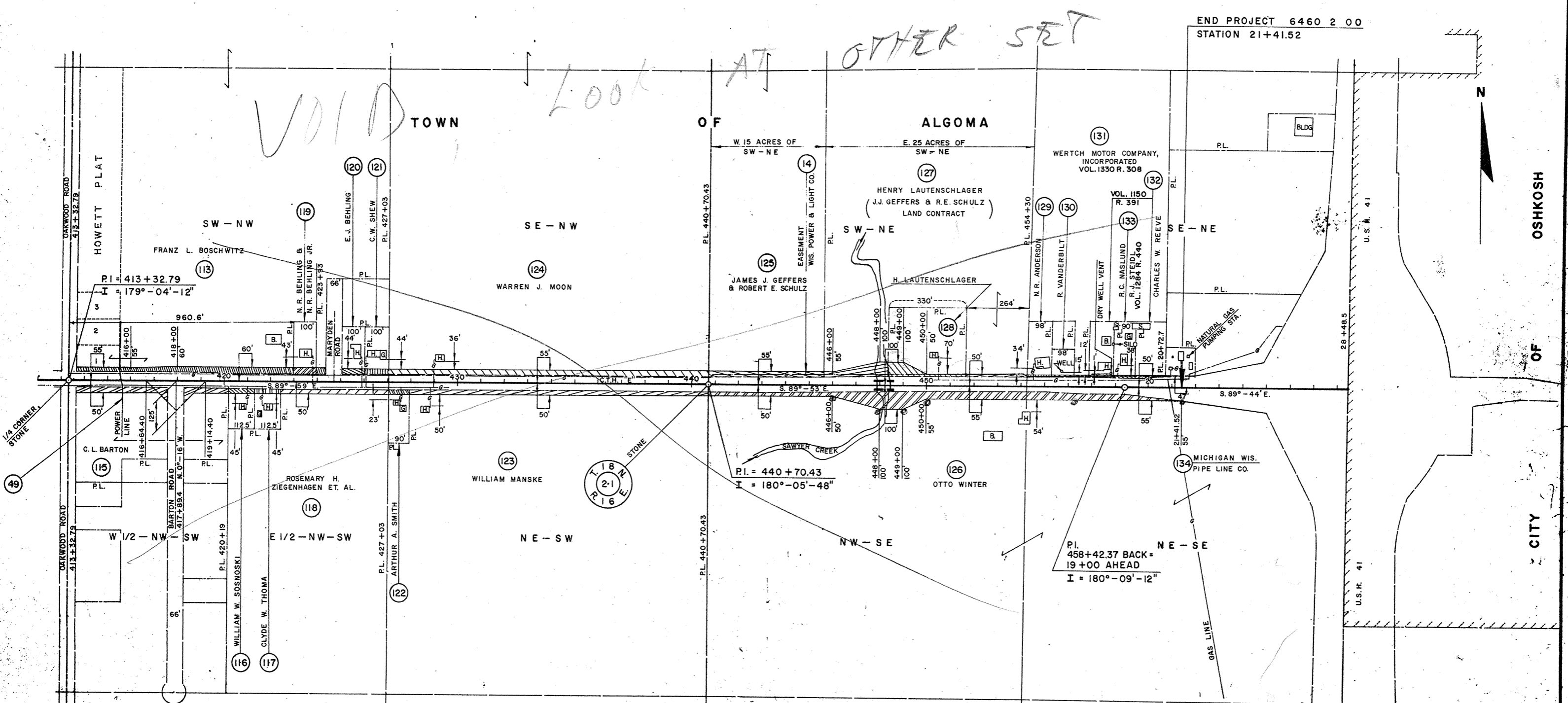


P.I. = 413+32.79  
I = 179°-04'-12"

NOTE:  
BEARINGS SHOWN ON THIS PLAT ARE THE TRUE  
BEARINGS OF EACH TANGENT TO THE NEAREST MINUTE.

11/66

REVISION DATE	4-28-72	PROJECT I. D.	6460 2 00	SHEET NUMBER	4.10	TOTAL SHEETS	
		FEDERAL PROJECT DESIGNATION	PLAT OF RIGHT OF WAY REQUIRED C.T.H. "E" WINNEBAGO COUNTY				
		SCALE	0 400 Ft.				
		DATE	3-28-72				
		Const. Project	S1260(4) / 6460-2-75		4.5		



END PROJECT 6460 2 00  
STATION 21+41.52

*VOID TOWN*

*Look AT OTHER SET*

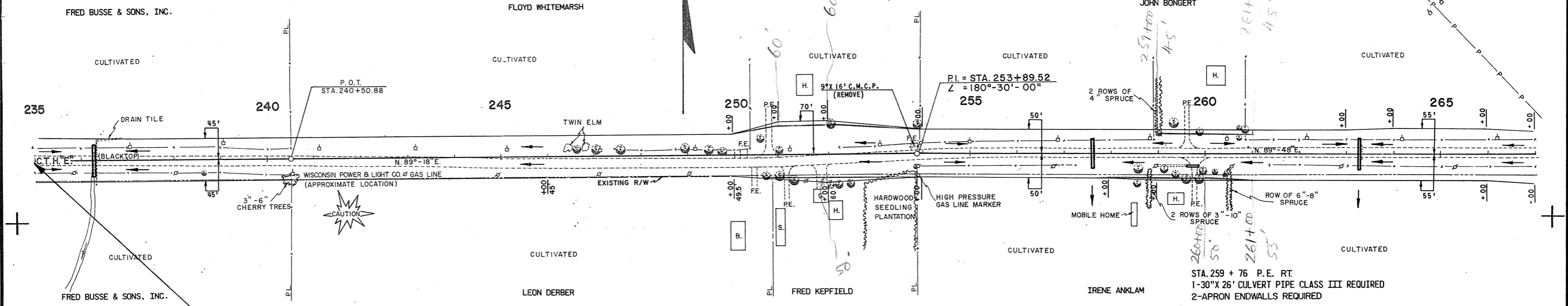
P.I. = 440 + 70.43  
I = 180°-05'-48"

P.I. 458+42.37 BACK =  
19+00 AHEAD  
I = 180°-09'-12"

NOTE:  
BEARINGS SHOWN ON THIS PLAT ARE THE TRUE BEARINGS OF EACH TANGENT TO THE NEAREST MINUTE.

BENCH MARKS			
NO.	STATION	DESCRIPTION	ELEV.
36	240+38	SPIKE IN 12" OAK	150' RT. 794.57
37	250+72	SPIKE IN 38" OAK	55' RT. 812.45
38	260+82	SPIKE IN 12" ELM	90' LT. 814.59

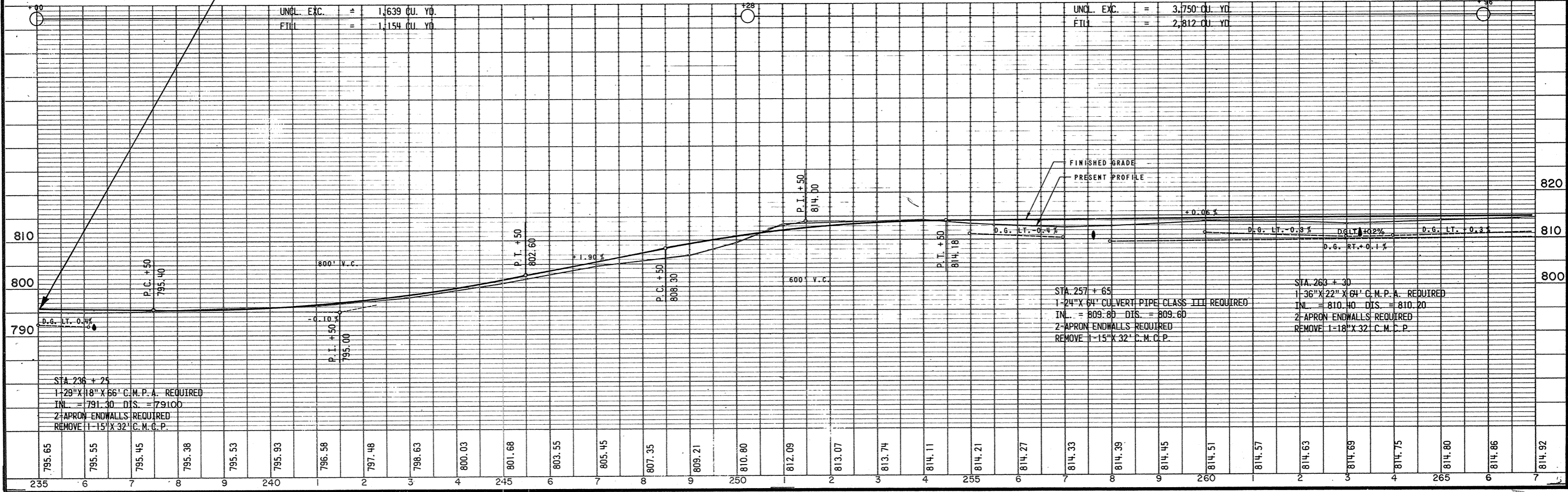
PROJECT I. D. 6460-2-75	SHEET NUMBER	TOTAL SHEETS
FEDERAL PROJECT DESIGNATION S 1260 (4)	5	



**BEGINNING OF PROJECT S1260(4)/ 6460-2-75**  
**STA. 235 + 00 =**  
 STA. 235+00 PROJECT S1260(3)/ 6460-2-71, 72, 73

UNCL. EXC. = 1,639 CU. YD.  
 FILL = 1,154 CU. YD.

UNCL. EXC. = 3,750 CU. YD.  
 FILL = 2,812 CU. YD.



STA. 236 + 25  
 1-29" X 18" X 66' C.M.P.A. REQUIRED  
 INL. = 791.30 DIS. = 791.00  
 2-APRON ENDWALLS REQUIRED  
 REMOVE 1-15" X 32" C.M.C.P.

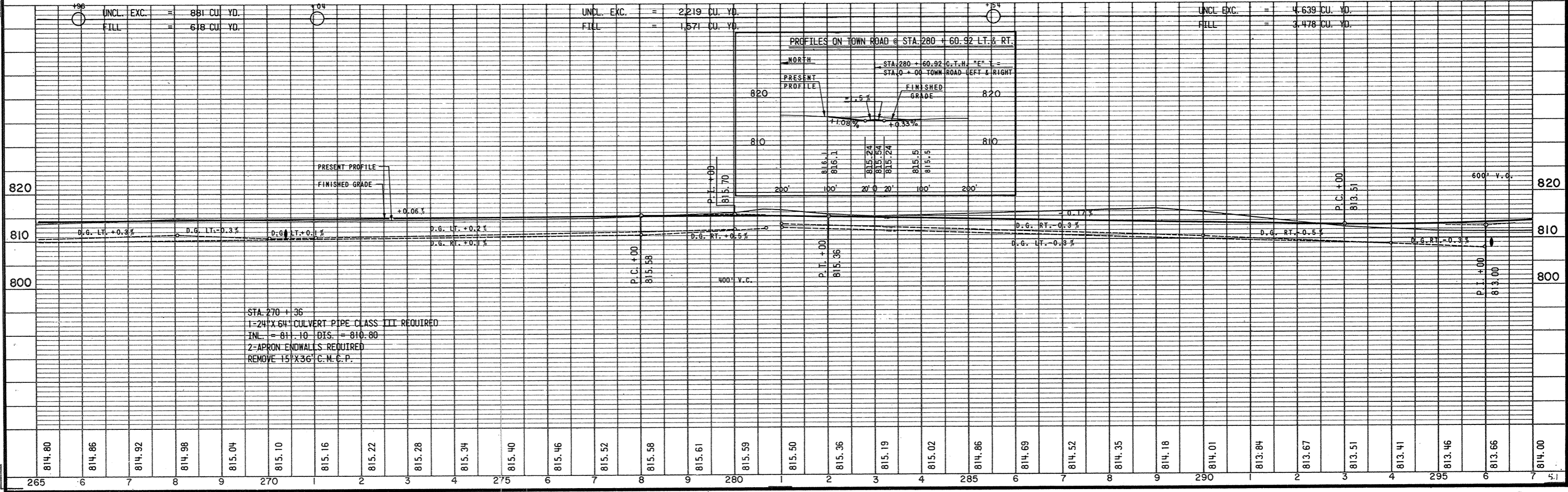
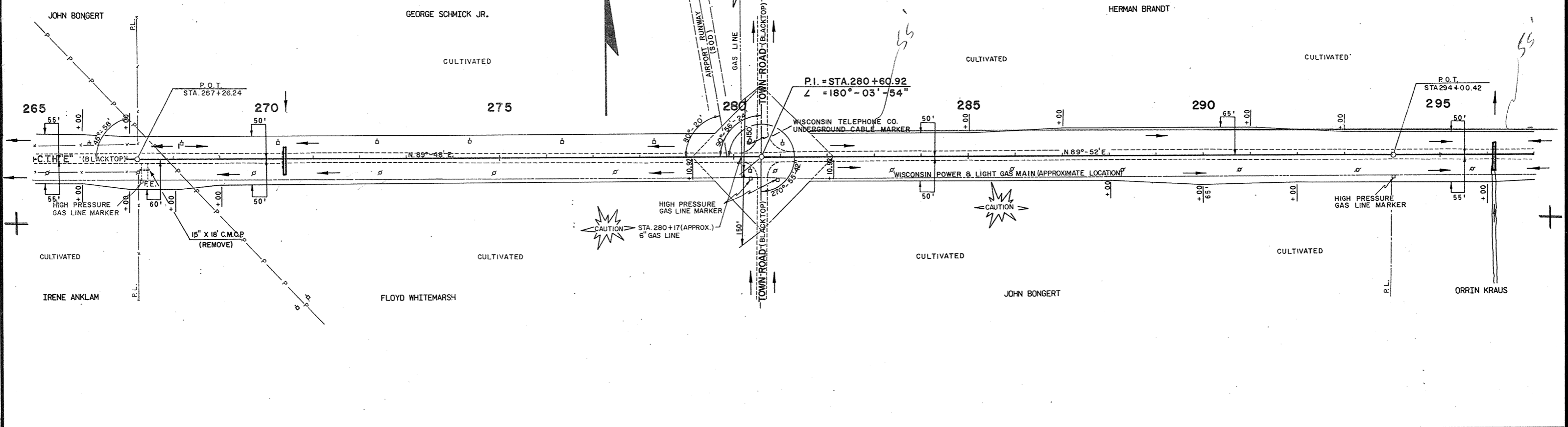
STA. 257 + 65  
 1-24" X 61" CULVERT PIPE CLASS III REQUIRED  
 INL. = 809.60 DIS. = 809.60  
 2-APRON ENDWALLS REQUIRED  
 REMOVE 1-15" X 32" C.M.C.P.

STA. 263 + 30  
 1-36" X 22" X 61' C.M.P.A. REQUIRED  
 INL. = 810.40 DIS. = 810.20  
 2-APRON ENDWALLS REQUIRED  
 REMOVE 1-18" X 32" C.M.C.P.

795.65	795.55	795.45	795.38	795.53	795.93	796.58	797.48	798.63	800.03	801.68	803.55	805.45	807.35	809.21	810.80	812.09	813.07	813.74	814.11	814.21	814.27	814.33	814.39	814.45	814.51	814.57	814.63	814.69	814.75	814.80	814.86	814.92
235	6	7	8	9	240	1	2	3	4	245	6	7	8	9	250	1	2	3	4	255	6	7	8	9	260	1	2	3	4	265	6	7

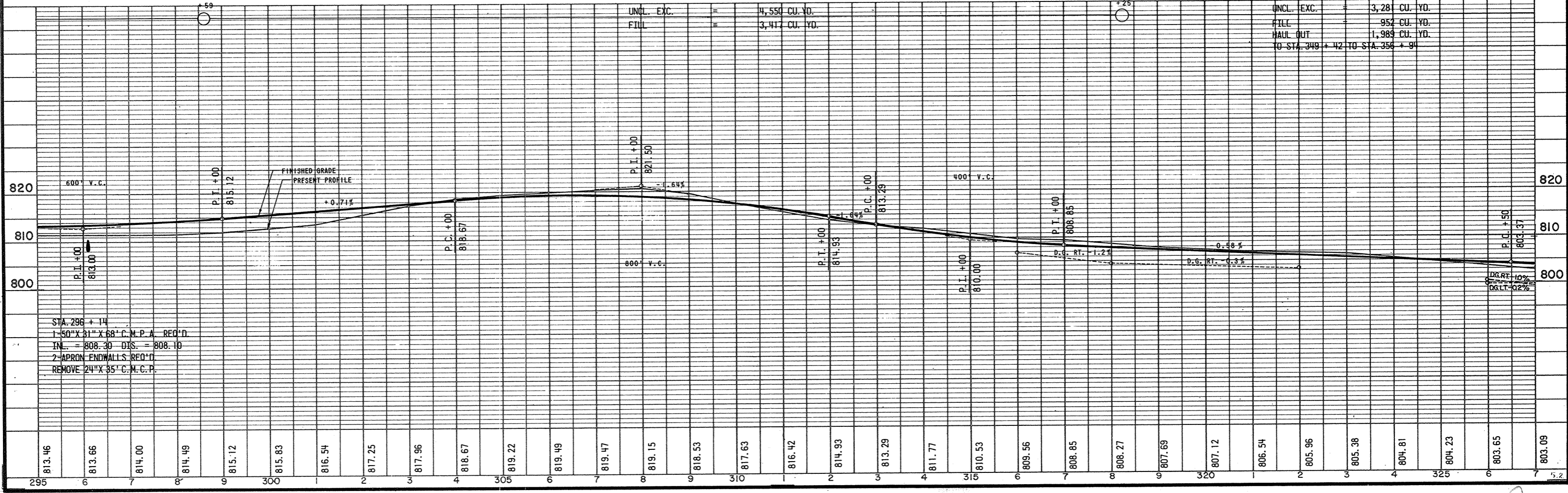
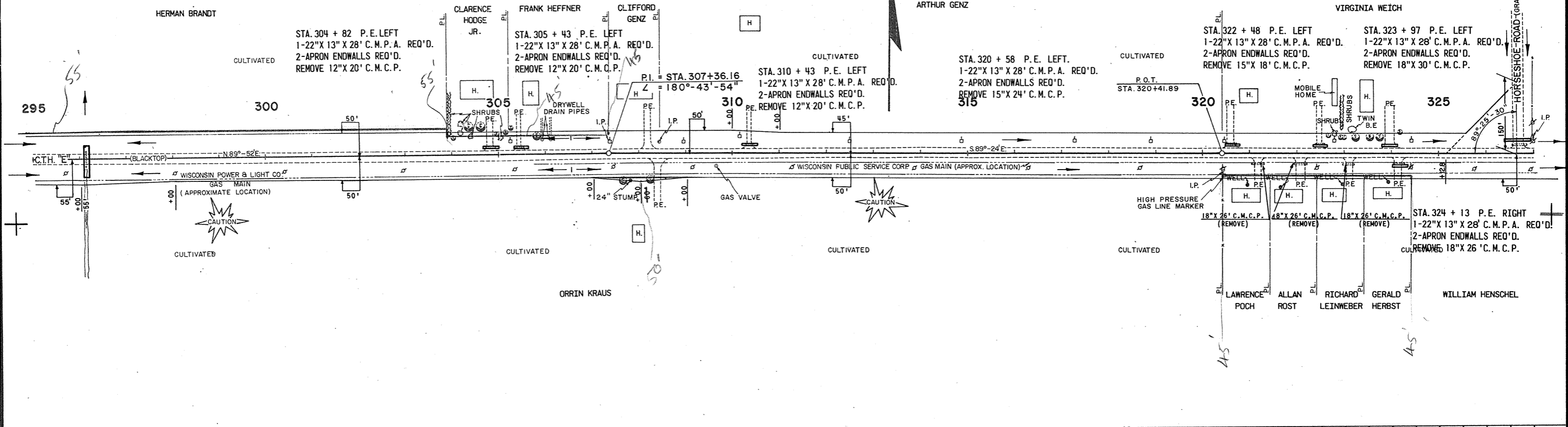
BENCH MARKS			
NO.	STATION	DESCRIPTION	ELEV.
39	269+82	SPIKE IN TELEPHONE POLE 30' RT.	812.78
40	280+40	SPIKE IN POWER POLE 175' LT.	815.02
41	293+97	SPIKE IN 4" CHERRY (S. SIDE) 120' RT.	811.46

PROJECT I.D. 6460-2-75	SHEET NUMBER 5.1	TOTAL SHEETS
FEDERAL PROJECT DESIGNATION S 1260 (4)		



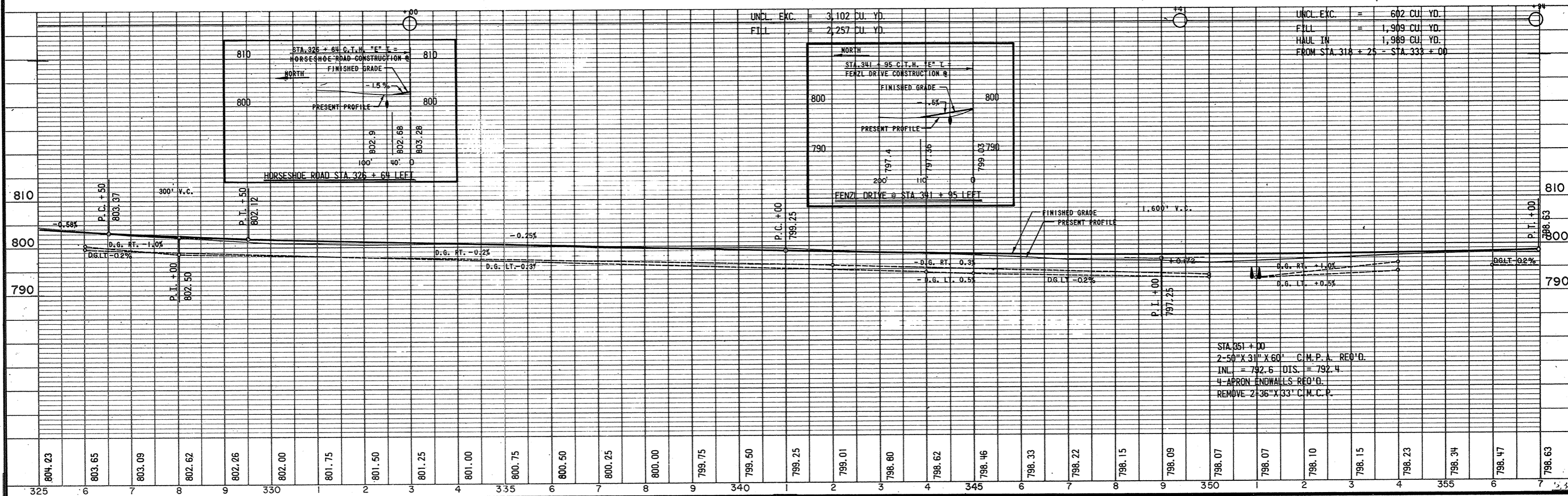
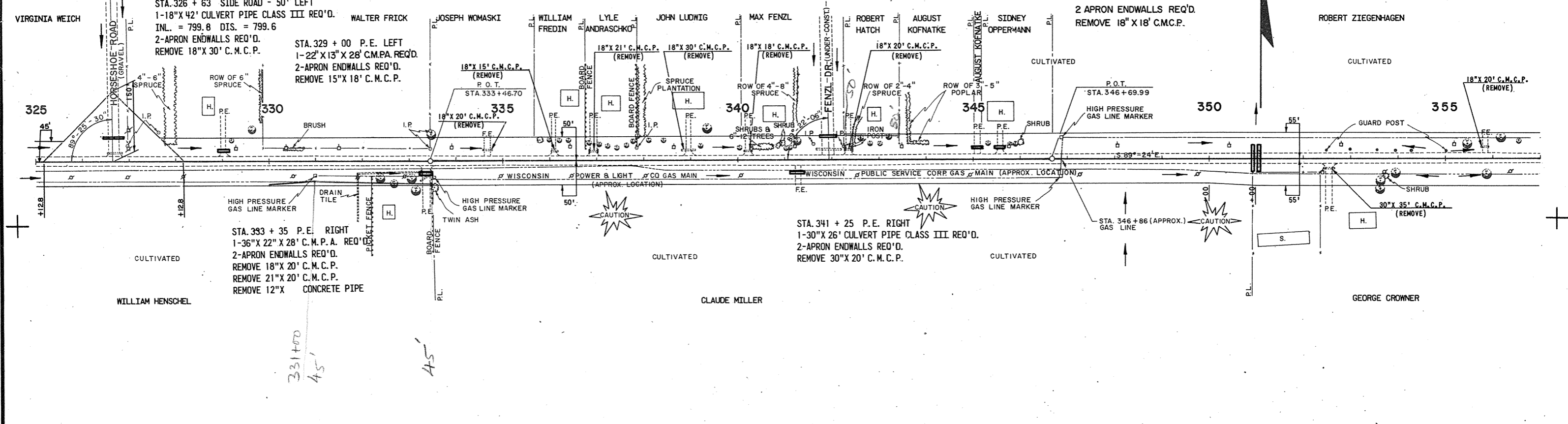
BENCH MARKS			
NO.	STATION	DESCRIPTION	ELEV.
42	305+25	SPIKE IN STUMP	95' LT. 820.93
43	314+85	SPIKE IN POWER POLE	27' LT. 810.33
44	323+60	S. CORNER OF BOTTOM STEP	90' LT. 806.84

PROJECT I.D. 6460-2-75	SHEET NUMBER 5.2	TOTAL SHEETS
FEDERAL PROJECT DESIGNATION S 1260 (4)		



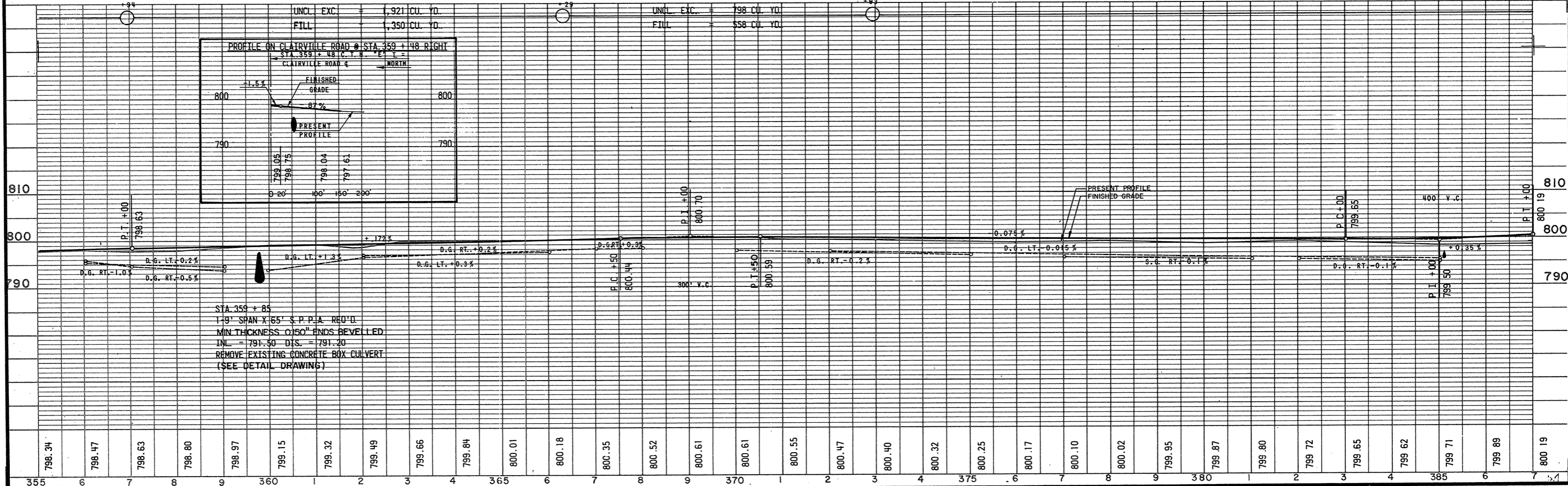
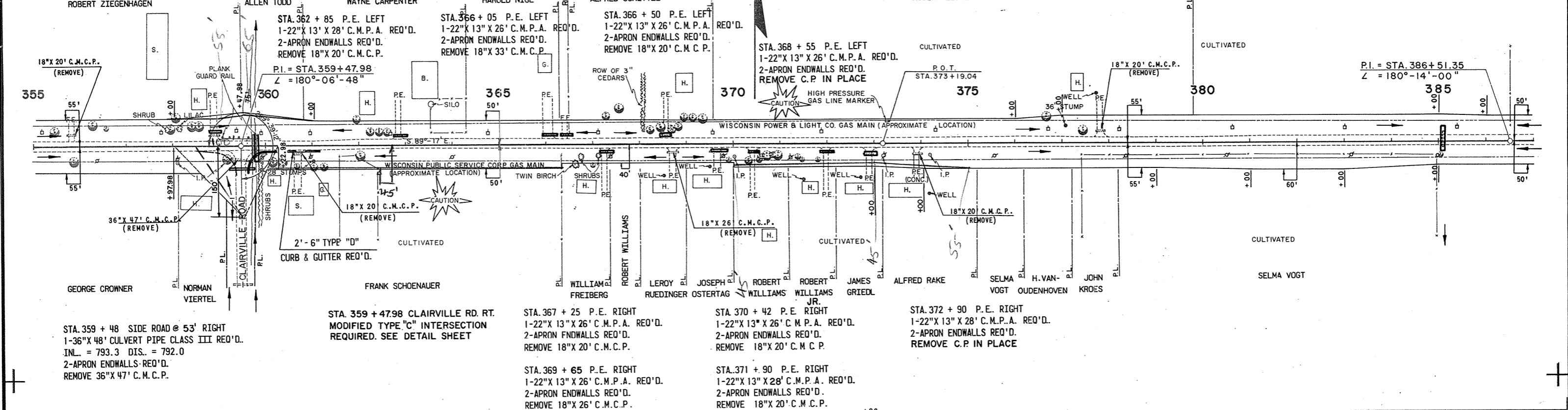
BENCH MARKS			
NO.	STATION	DESCRIPTION	ELEV.
45	333+48	SPIKE IN 20" ASH	100' RT. 799.76
46	343+60	SPIKE IN 6" POPLAR	75' LT. 796.96
47	355+50	SPIKE IN 30" ELM	30' LT. 797.15

PROJECT I. D. 6460-2-75	SHEET NUMBER 5.3	TOTAL SHEETS
FEDERAL PROJECT DESIGNATION S 1260 (4)		



BENCH MARKS			
NO.	STATION	DESCRIPTION	ELEV.
47	355+50	SPIKE IN 30" ELM	30' LT. 797.15
48	359+80	S.E. CORNER OF BOX CULVERT 27' RT.	797.56
49	369+34	SPIKE IN 20" BOX ELDER	50' LT. 799.25
50	376+75	SPIKE IN 24" HICKORY	55' LT. 799.47

STA. 358+90 P.E. LEFT  
1-30" X 26' C.M.P.A. REQ'D.  
2 APRON ENDWALLS REQ'D.  
REMOVE 30" X 25' C.M.C.P.

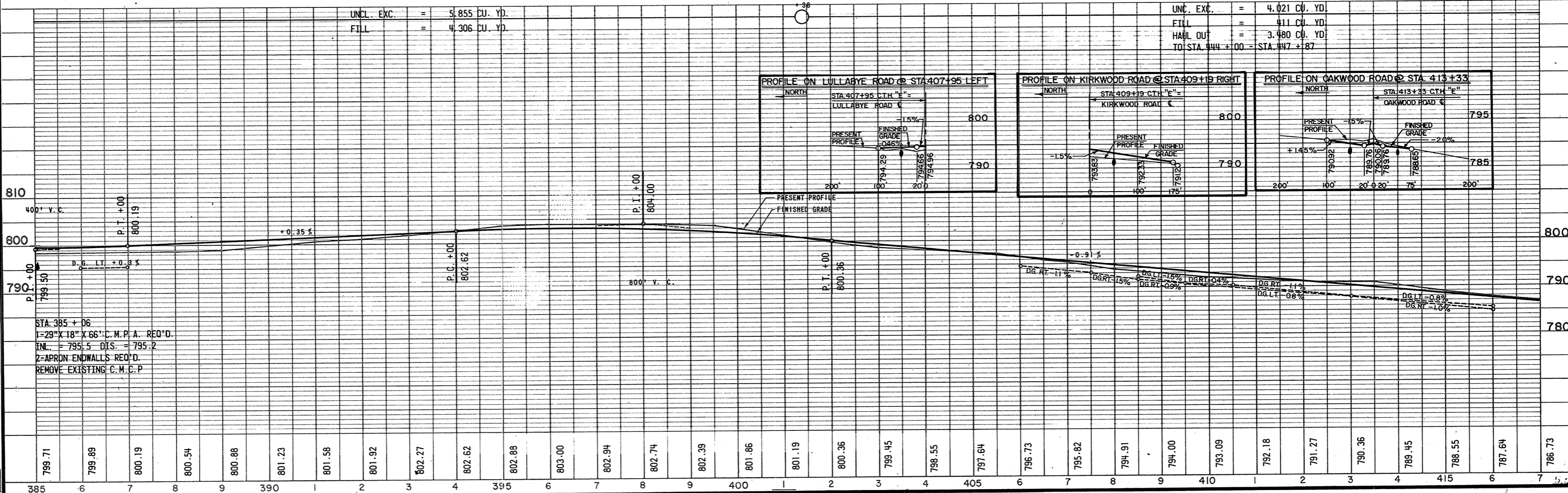
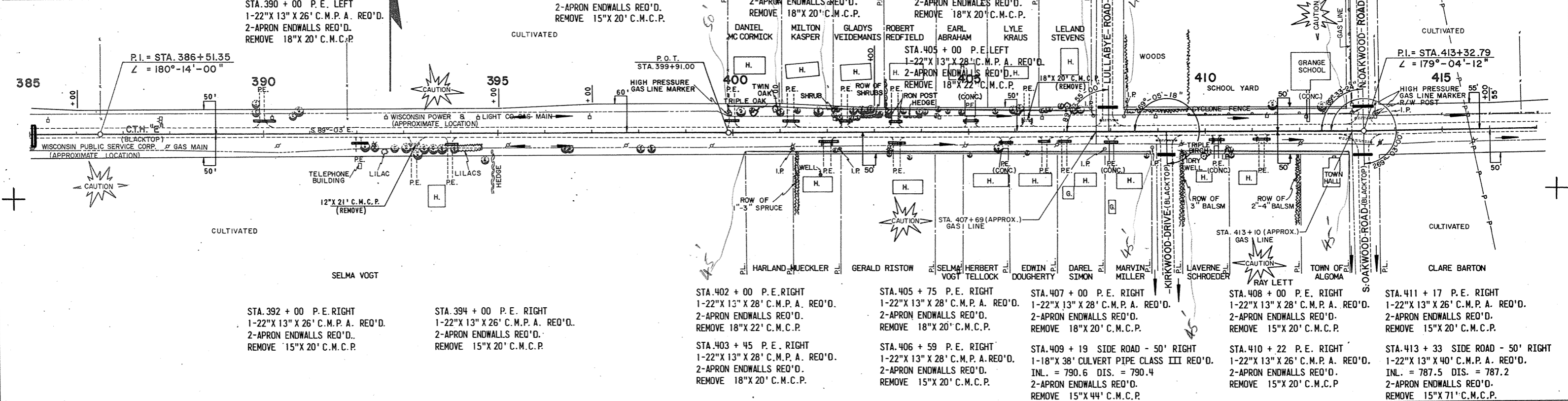


STA. 359 + 85  
1-9' SPAN X 65' S.P.P.A. REQ'D.  
MIN THICKNESS 0.150" ENDS BEVELLED  
INL. = 791.50 DIS. = 791.20  
REMOVE EXISTING CONCRETE BOX CULVERT  
(SEE DETAIL DRAWING)



BENCH MARKS			
NO.	STATION	DESCRIPTION	ELEV.
51	390+70	SPIKE IN 28" MAPLE	120' LT. 799.25
52	398+04	SPIKE IN 22" HICKORY	36' RT. 803.20
53	401+60	S.W. CORNER BOTTOM STEP	100' LT. 802.95
54	405+54	SPIKE IN 10" HICKORY	45' LT. 797.34
55	412+74	SQUARE CHISEL MARK ON BOTTOM STEP OF ALGOMA TOWN HALL	75' RT. 790.69

PROJECT I.D. 6460-2-75	SHEET NUMBER 5.5	TOTAL SHEETS
FEDERAL PROJECT DESIGNATION S 1260 (4)		

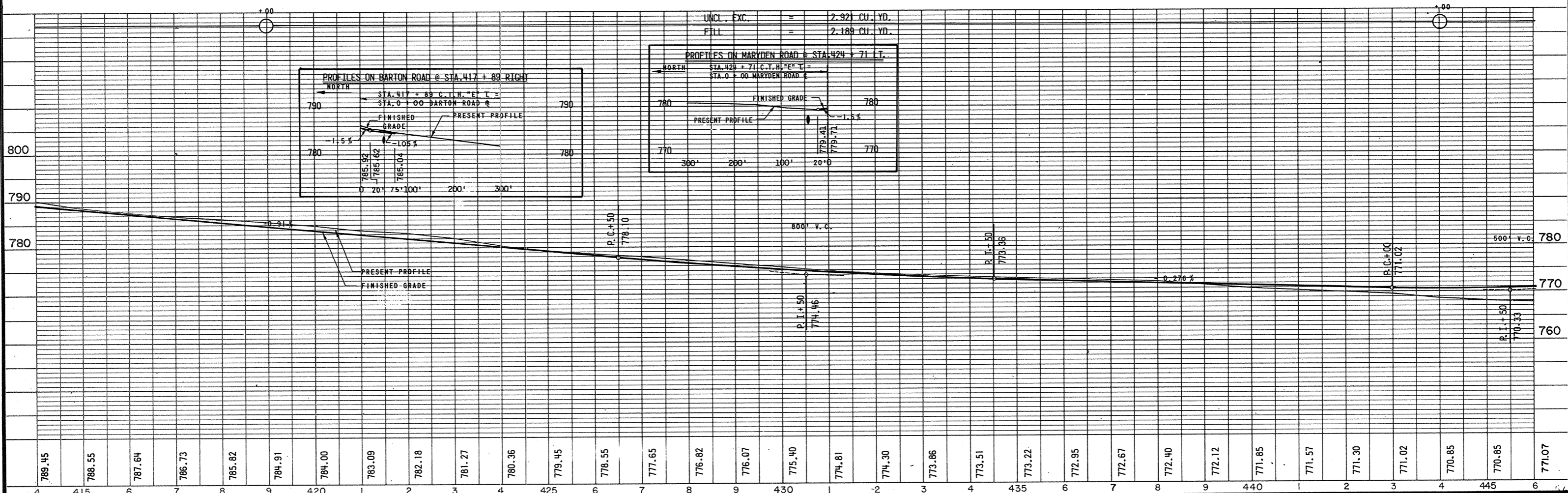
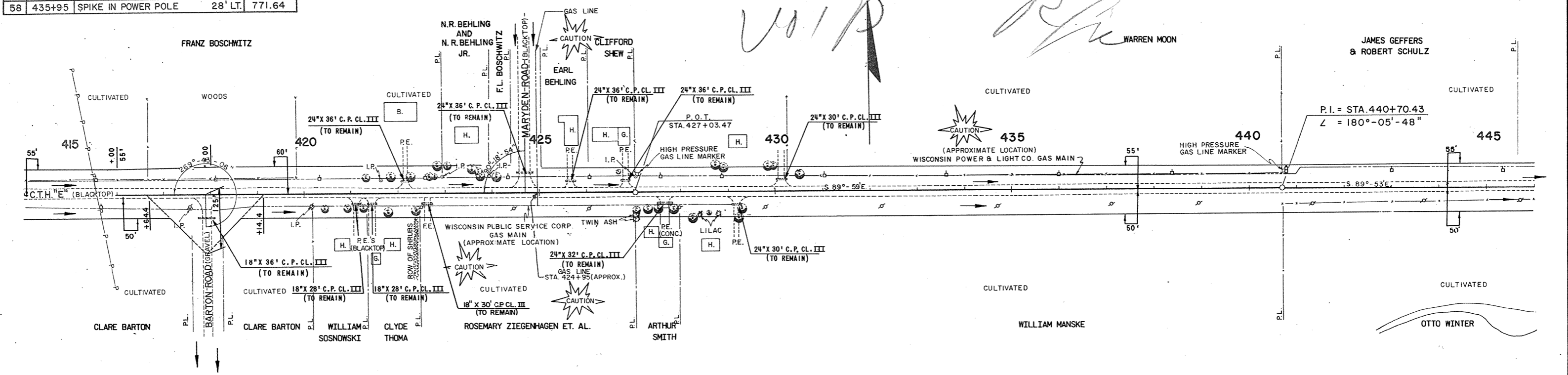


UNC. EXC.	=	4.021 CU. YD.
FILL	=	4.111 CU. YD.
HAUL OUT	=	3.480 CU. YD.
TO STA. 444+00 = STA. 447+87		

799.71	799.89	800.19	800.54	800.88	801.23	801.58	801.92	802.27	802.62	802.88	803.00	802.94	802.74	802.39	801.86	801.19	800.36	799.45	798.55	797.64	796.73	795.82	794.91	794.00	793.09	792.18	791.27	790.36	789.45	788.55	787.64	786.73	
385	6	7	8	9	390	1	2	3	4	395	6	7	8	9	400	1	2	3	4	405	6	7	8	9	410	1	2	3	4	415	6	7	8

PROJECT I.D. 6460-2-75	SHEET NUMBER 56	TOTAL SHEETS
FEDERAL PROJECT DESIGNATION S 1260(4)		

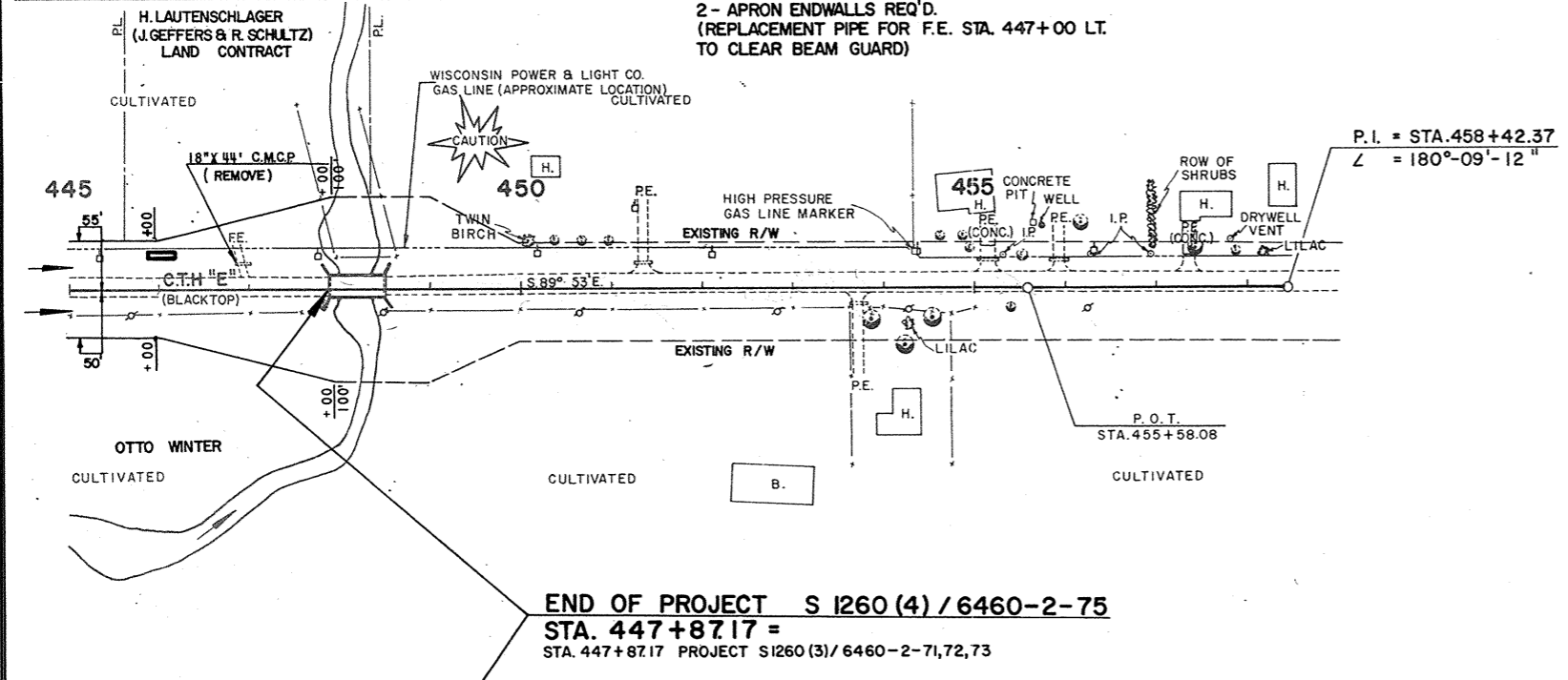
BENCH MARKS			
NO.	STATION	DESCRIPTION	ELEV.
56	419+45	SPIKE IN 12" HICKORY 60' LT.	785.70
57	428+70	SPIKE IN 26" OAK 50' LT.	777.05
58	435+95	SPIKE IN POWER POLE 28' LT.	771.64



PROJECT I. D. 6460-2-75	SHEET NUMBER	TOTAL SHEETS
FEDERAL PROJECT DESIGNATION S 1260 (4)	57	

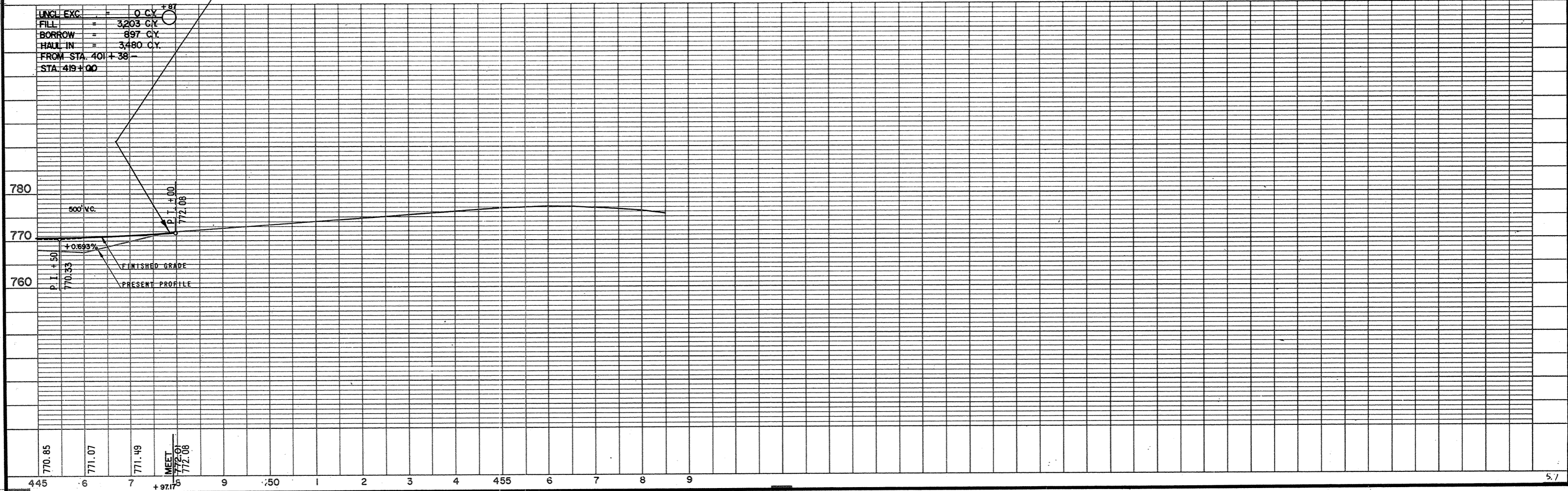
**BENCH MARKS**

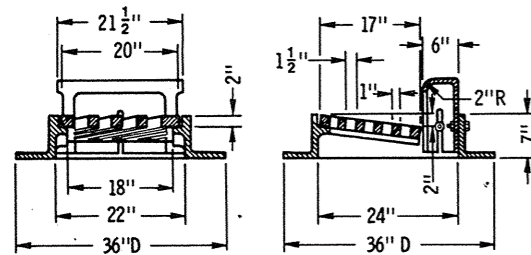
NO.	STATION	DESCRIPTION	ELEV.
59	448+40	PT. MK. TOP N.E. WINGWALL	20' LT. 767.20
60	454+22	SPIKE IN 14" OAK	45' RT. 779.17
61	457+58	S.E. CORNER OF ENTRY SLAB OF HOUSE (FRONT DOOR)	82' LT. 779.58
171	499+18	SPIKE IN POWER POLE	115' RT. R/W RL 763.43



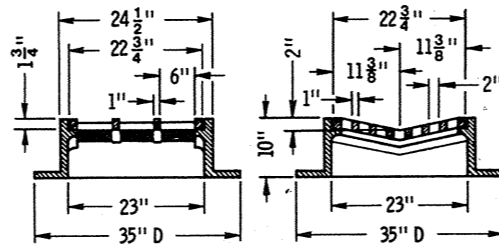
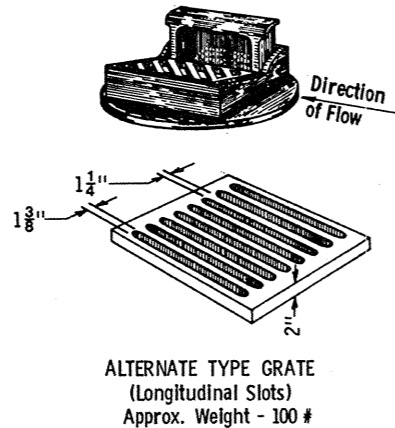
**END OF PROJECT S 1260 (4) / 6460-2-75**  
**STA. 447+8717 =**  
 STA. 447+8717 PROJECT S1260 (3) / 6460-2-71,72,73

UNCL. EXC.	=	0 CY
FILL	=	3,203 CY
BORROW	=	897 CY
HAUL IN	=	3,480 CY
FROM STA. 401+38		
STA. 419+00		

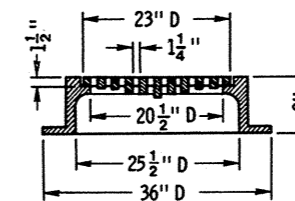
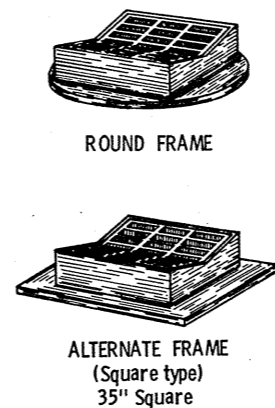




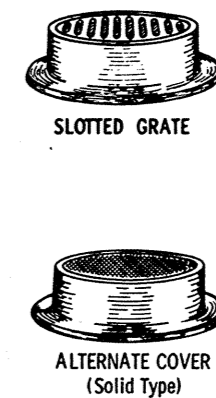
**TYPE "A"** - (Approx. Weight 390 Lbs.)  
 Frame Weight - 250 #  
 Grate " - 90 #  
 Box " - 50 #



**TYPE "B"** - (Approx. Weight 414 Lbs.)  
 Frame Weight - 275 #  
 Grate " - 139 #

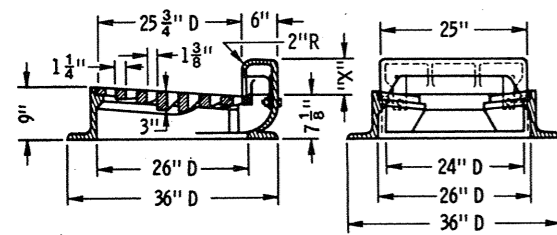
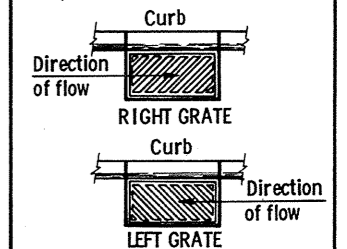


**TYPE "C"**  
 Frame Weight - 255 #  
 Slotted Grate Weight - 115 #  
 Solid Cover Weight - 150 #

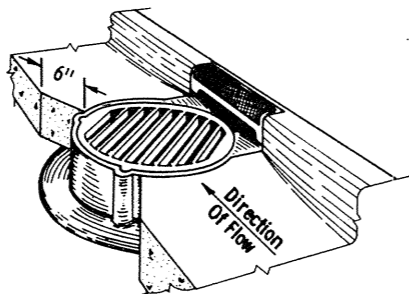


Diagonal Slots shall be oriented to the direction of flow as shown thereon. Hence RIGHT and LEFT Grates shall be furnished depending on direction of flow. (See Sketch Below).

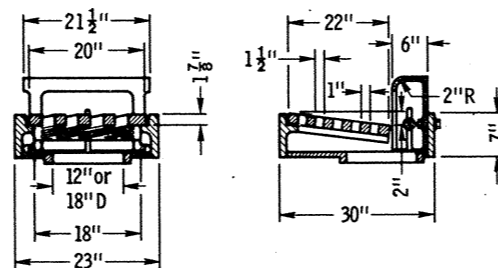
Longitudinal slot type grates may be used ONLY where bicycles are prohibited.



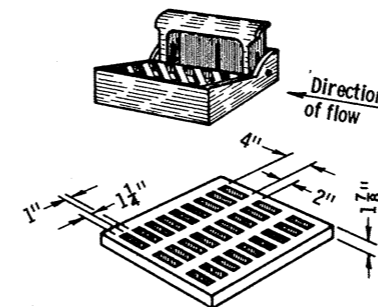
**TYPE "G"** - (Approx. Weight 425 - 465 Lbs.)  
 Frame Weight - 235 #  
 Grate " - 130 #  
 Box - See Table



Curb Height	"X"	Weight
4"	4 1/4"	60 #
6"	6 1/4"	70 #
8"	8 1/4"	90 #
10"	10 1/4"	100 #



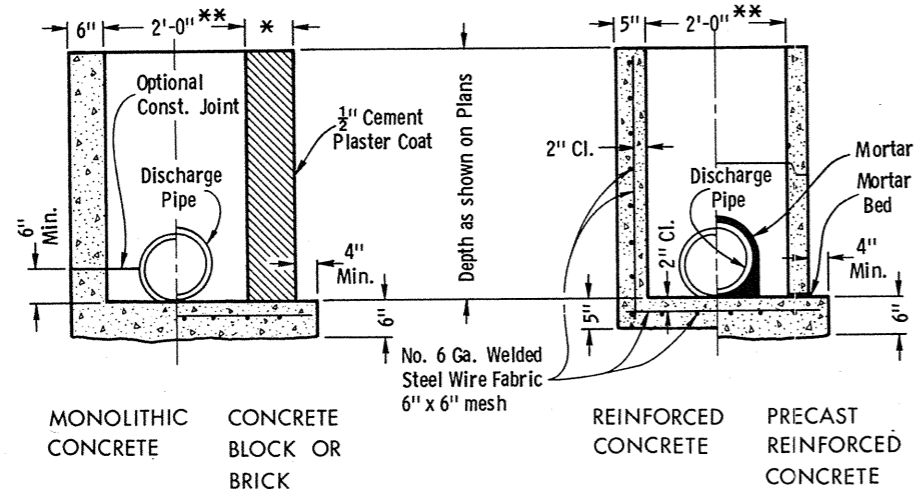
**TYPE "R"** (Approx. Weight - 450 Lbs.)



**INLET COVERS**

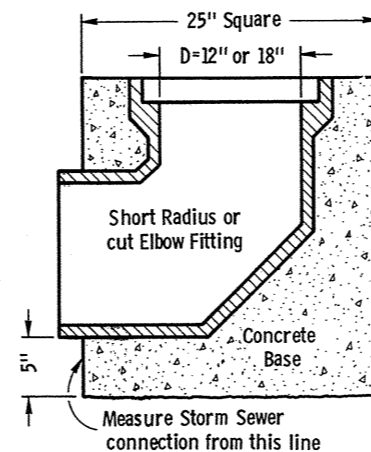
5" Min. Concrete Block  
 \* 8" Clay or Shale  
 Sewer Brick or  
 Concrete Bldg. Brick

\*\* Selection of Square or  
 Circular Design will be  
 based upon Inlet Cover  
 being utilized



MONOLITHIC CONCRETE    CONCRETE BLOCK OR BRICK    REINFORCED CONCRETE    PRECAST REINFORCED CONCRETE

**INLETS TYPE 1**



**INLET TYPE 2**

**TYPE "S"** - (Approx. Weight - 450 Lbs.)

**GENERAL NOTES**

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

Detailed drawings for proposed alternate designs for Inlets shall be submitted to the Engineer for approval providing that such alternate designs make provision for equivalent capacity and strength.

All Inlets are designated on the Plans as "Inlets, 1-A", 2-R, etc. This designation is interpreted to mean that the number, or first digit, designates the masonry portion of the structure, and the following letter, designates the type of cover or iron casting to be used.

All bar steel reinforcement shall be embedded 2 inches clear unless otherwise shown or noted.

Precast Reinforced Bases may be used in lieu of cast-in-place bases. When Precast Bases are used, they shall be placed on a bed of material at least 6 inches in depth, which meets the requirements for Granular Backfill. This bedding material shall be compacted and provide uniform support for the entire area of the base.

All Precast Reinforced Concrete Grade Rings shall conform to AASHTO Designation M 199. Precast Reinforced Concrete Bases shall conform to Flat Slab Top requirements of AASHTO Designation M 199.

Adjustment of the cover to grade may be accomplished by the use of mortar and brick or Precast Reinforced Concrete Grade Rings. Maximum adjustment shall be 8 inches.

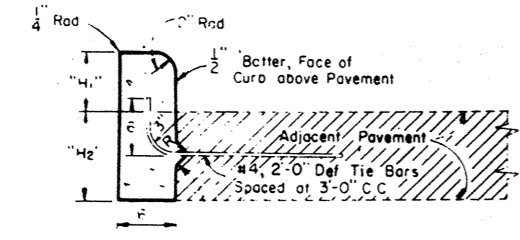
Precast Reinforced Concrete Risers may be placed with tongue or "D" joint ends either up or down.

**INLETS TYPE 1 & 2 AND INLET COVERS**

State of Wisconsin  
 Department of Transportation  
 Division of Highways

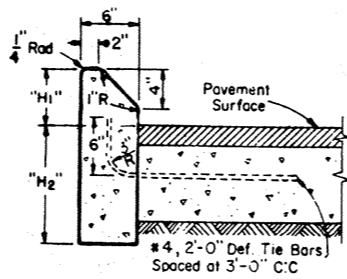
RECOMMENDED FOR APPROVAL:  
 DATE 5/3/72  
 APPROVED 5/3/72  
 DATE

*L. C. ...*  
 CHIEF DESIGN ENGINEER  
*S. C. ...*  
 STATE HIGHWAY ENGINEER



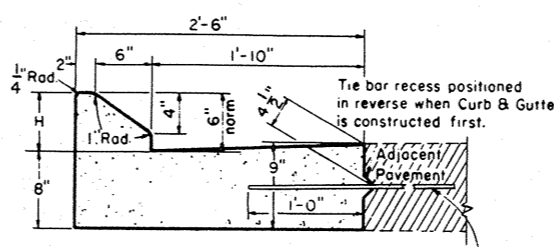
Tie Bar recess positioned in reverse when Concrete Curb is constructed first.  
 "H1" = 9" max and 3 1/2" min, and shall be 6" unless otherwise shown on the plans.  
 "H2" = Same as adjacent pavement thickness for rigid pavement and 12" for other than rigid pavement (Tie Bars Omitted).

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



"H1" = 9" Max and 4" min and shall be 6" unless otherwise shown on plans.  
 "H2" = Same as adjacent pavement thickness for rigid pavement and 12" for other than rigid pavement (Tie Bars Omitted).

**TYPE "G" TYPE "J"**  
 (Including Tie Bars) (Excluding Tie Bars)  
**CONCRETE CURB**  
 (Mountable Type)



"H1" = 9" max and 4" min & shall be 6" unless otherwise shown on the plans.  
 #4, 2'-0" Def. Tie Bars or alternate Bolt Type instal. may be used, spaced at 3'-0" C.C.

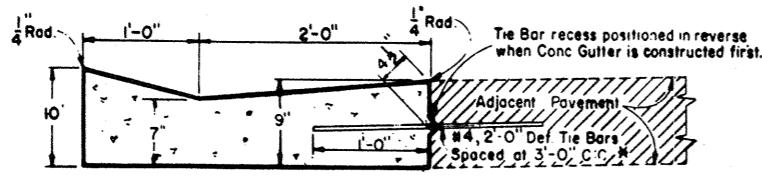
**TYPE "G" TYPE "J"**  
 (Including Tie Bars) (Excluding Tie Bars)  
**CONCRETE CURB AND GUTTER**  
 (Mountable Type)

**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.

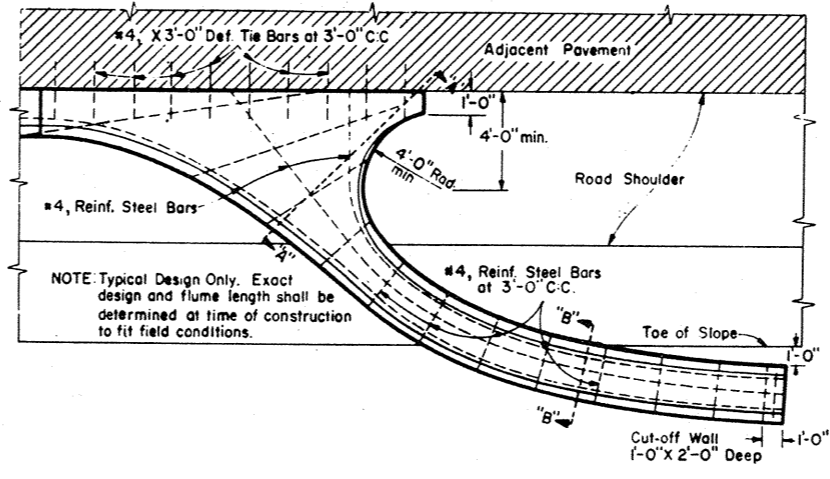
**JOINTS -**

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

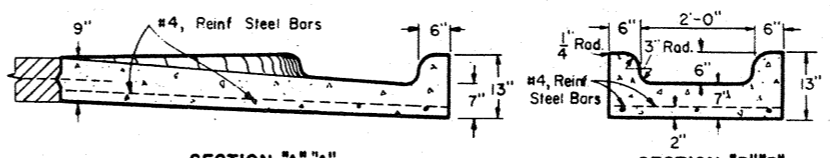


\* Alternate Tie Bars or Bolt Type installations may be used as shown for Longitudinal Joints.

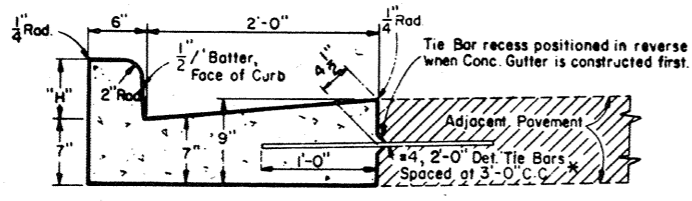
**TYPE "A" TYPE "D"**  
 (Including Tie Bars) (Excluding Tie Bars)  
**CONCRETE GUTTER**



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**



"H1" = 9" Max., 3 1/2" Min, and shall be 6" unless otherwise shown on the plans.  
 \* Alternate Tie Bars or Bolt Type installations may be used as shown for Longitudinal Joints.

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

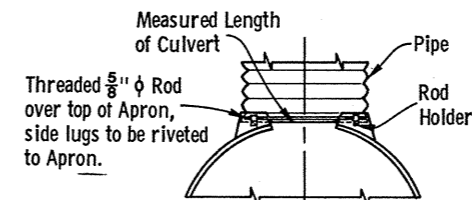
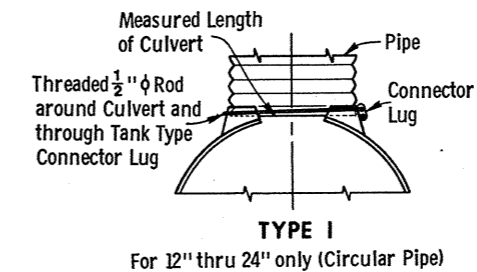
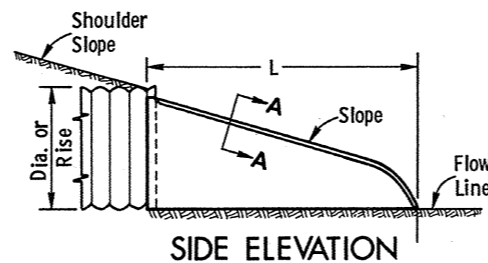
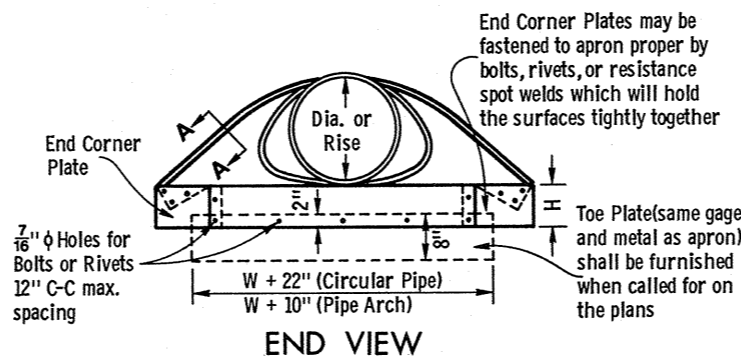
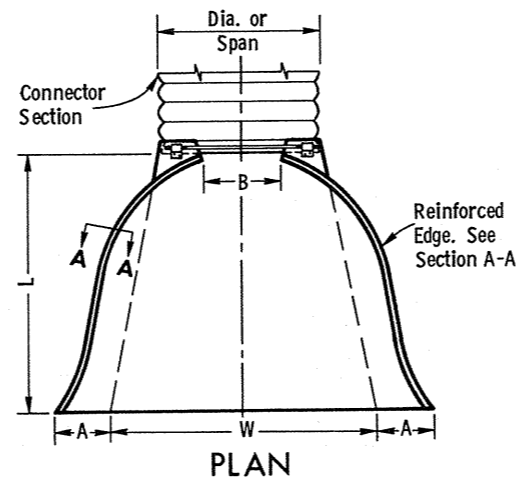
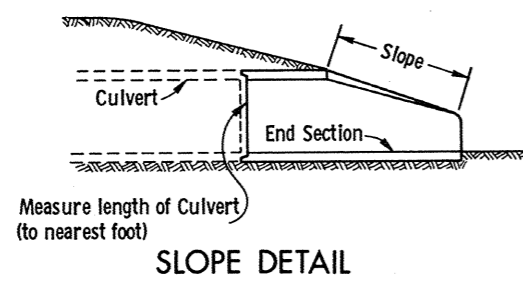
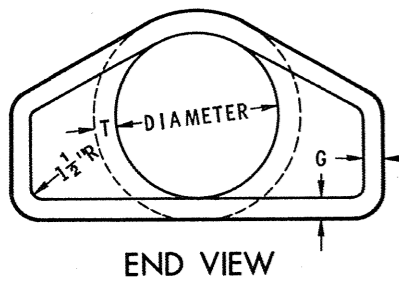
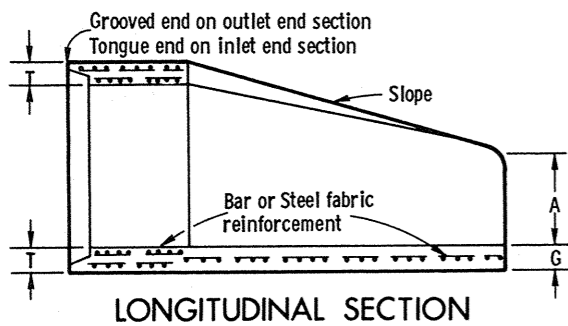
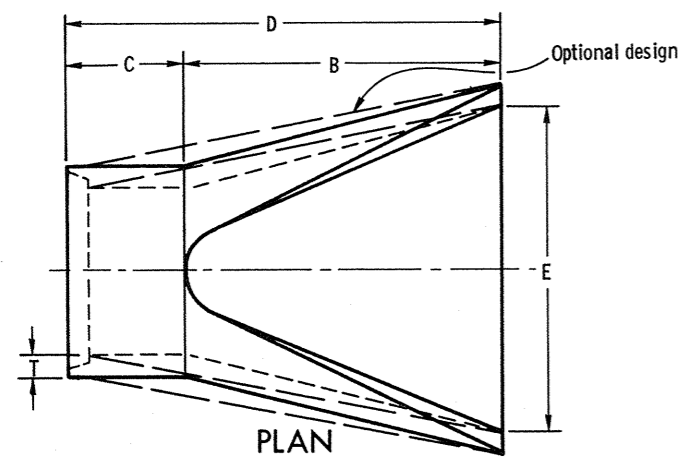
APPROVED:

DATE 2/4/63

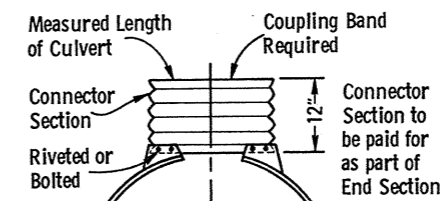
*J. S. Pelt*  
 ENGINEER OF DESIGN

*E. C. Rottiers*  
 STATE HIGHWAY ENGINEER

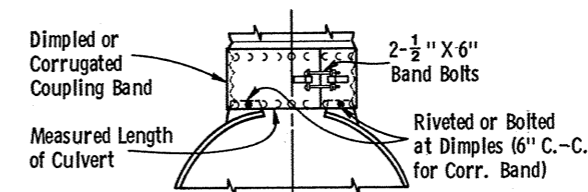
S.D.D. 8D1-1



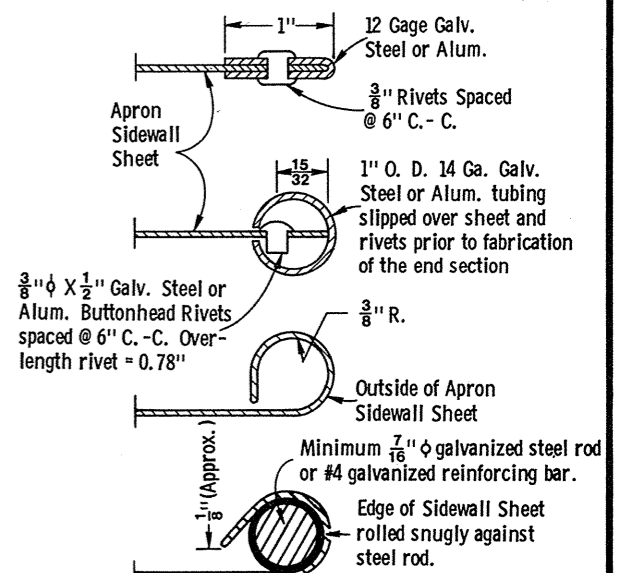
**TYPE 2**  
For 30" and 36" only (Circular Pipe)  
For 18" X 11" thru 58" X 36" only (Pipe Arch)



**TYPE 3**  
For 42" thru 84" only (Circular Pipe)  
For 65" X 40" & 72" X 44" (Pipe Arch)



**TYPE 5**  
Alternate for  
All sizes Corrugated Circular Pipe and Pipe Arch



**SECTION A-A**

**GENERAL NOTES**

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

Variations of the dimensions and designs shown hereon will be permitted providing equivalent capacity and structural integrity are attained, and prior approval of the Engineer is obtained.

Concrete culvert endwalls may not be used with metal or aluminum culvert pipe, nor may metal or aluminum culvert endwalls be used with concrete culvert pipe.

When two or more pipes or pipe arches with apron endwalls are to be laid adjacent to each other, they shall be separated by the following amount:

Pipes: Total width of apron endwall less the diameter of pipe plus 6 inches.

Pipe Arches: Total width of apron endwall less the span dimension of the pipe arch plus 6 inches.

DIA.	APPROX. WEIGHT/SECTION	APPROX. SLOPE	T	A	B	C	D	E	G
12"	530	3 to 1	2"	4"	24"	48 7/8"	72 7/8"	24"	2"
15"	740	3 to 1	2 1/4"	6"	27"	46"	73"	30"	2 1/4"
18"	990	3 to 1	2 1/2"	9"	27"	46"	73"	36"	2 1/2"
21"	1,280	3 to 1	2 3/4"	9"	36"	37 1/2"	73 1/2"	42"	2 3/4"
24"	1,520	3 to 1	3"	9 1/2"	43 1/2"	30"	73 1/2"	48"	3"
27"	1,930	3 to 1	3 1/4"	10 1/2"	49 1/2"	24"	73 1/2"	54"	3 1/4"
30"	2,190	3 to 1	3 1/2"	12"	54"	19 3/4"	73 3/4"	60"	3 1/2"
36"	4,100	3 to 1	4"	15"	63"	34 3/4"	97 3/4"	72"	4"
42"	5,380	3 to 1	4 1/2"	21"	63"	35"	98"	78"	4 1/2"
48"	6,550	3 to 1	5"	24"	72"	26"	98"	84"	5"
54"	8,040	2 2/3 to 1	5 1/2"	27"	65"	33 1/4" - 35"	98 1/4" - 100"	90"	5"
60"	8,730	2 to 1	6"	30"	60"	39"	99"	96"	5"
66"	10,630	2 to 1	6 1/2"	30"	72"	21" - 27"	99"	102"	5 1/2"
72"	12,520	2 to 1	7"	36"	78"	21"	99"	108"	6"
78"	14,430	2 to 1	7 1/2"	36"	78"	21"	99"	114"	6 1/2"
84"	18,160	1 1/2 to 1	8"	36"	90 1/2"	21"	111 1/2"	120"	6 1/2"

\*\* Minimum  
\* Maximum

**REINFORCED CONCRETE APRON ENDWALLS**

D PIPE DIAM.	MIN. METAL GAGE	MIN. ALUM. GAGE	DIMENSIONS					APPROX. SLOPE
			A ± 1"	B MAX.	H ± 1"	L ± 1 1/2"	W ± 2"	
12"	16	16	6"	6"	6"	21"	24"	2 1/2 to 1
15"	16	16	7"	8"	6"	26"	30"	"
18"	16	16	8"	10"	6"	31"	36"	"
21"	16	16	9"	12"	6"	36"	42"	"
24"	16	14	10"	13"	6"	41"	48"	"
30"	14	14	12"	16"	8"	51"	60"	"
36"	14	12	14"	19"	9"	60"	72"	"
42"	12	12	16"	22"	11"	69"	84"	"
48"	12	12	18"	27"	12"	78"	90"	2 1/4 to 1
54"	12	12	18"	30"	12"	84"	102"	2 to 1
60"	10	8	18"	33"	12"	87"	114"	1 3/4 to 1
66"	10	8	18"	36"	12"	87"	120"	1 1/2 to 1
72"	10	8	18"	39"	12"	87"	126"	1 1/3 to 1
78"	8	NA	18"	42"	12"	87"	132"	1 1/4 to 1
84"	8	NA	18"	45"	12"	87"	138"	1 1/6 to 1

NOTE: All splices to be lap riveted or bolted

**METAL OR ALUMINUM APRON  
ENDWALLS FOR CIRCULAR PIPES**

PIPE - ARCH DIMENSIONS SPAN RISE	GAGE MIN.	DIMENSIONS					APPROX. SLOPE
		A ± 1"	B MAX.	H ± 1"	L ± 1 1/2"	W ± 2"	
18" 11"	16	7"	9"	6"	19"	30"	2 1/2 to 1
22" 13"	16	7"	10"	6"	23"	36"	"
25" 16"	16	8"	12"	6"	28"	42"	"
29" 18"	16	9"	14"	6"	32"	48"	"
36" 22"	14	10"	16"	6"	39"	60"	"
43" 27"	14	12"	18"	8"	46"	75"	"
50" 31"	12	13"	21"	9"	53"	85"	"
58" 36"	12	18"	26"	12"	63"	90"	"
65" 40"	12	18"	30"	12"	70"	102"	2 1/4 to 1
72" 44"	12	18"	33"	12"	77"	114"	"

NOTE: All splices to be lap riveted or bolted

**METAL APRON ENDWALLS  
FOR PIPE ARCHES**

NOTE: Dimpled Band fits over Outside of Endwall, and Corr. Band fits Inside Endwall. Dimpled Band may be used with Helically Corrugated Pipe

**CONNECTION DETAILS**

**CIRCULAR PIPE**

For Circumferentially Corrugated Pipe use Endwall Connection Details 1, 2, 3, or 5 as applicable.

For Helically Corrugated Pipe use Endwall Connection Details 1, 2 or 5.

For Helically Corrugated Pipes with two Circumferential Corrugations at each end use Endwall Connection Details 1, 2, or 3

**PIPE ARCH**

Use Endwall Connection Details 2, 3, or 5 as applicable.

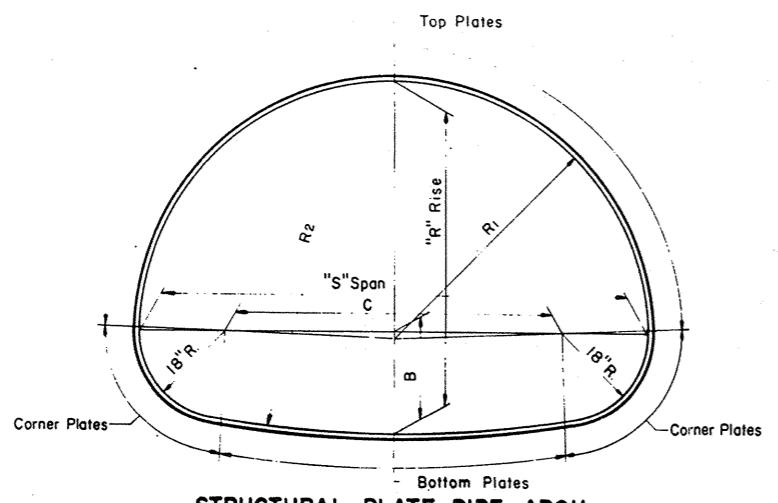
**APRON ENDWALLS FOR  
CULVERT PIPE AND  
PIPE ARCH**

State of Wisconsin  
Department of Transportation  
Division of Highways

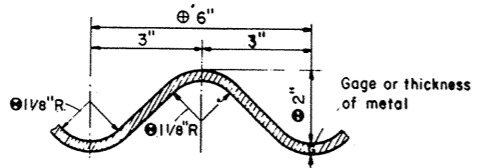
RECOMMENDED FOR APPROVAL:  
4-11-72  
DATE  
APPROVED  
4-11-72  
DATE

*S. C. Hennel*  
CHIEF DESIGN ENGINEER

*S. E. Hicks*  
STATE HIGHWAY ENGINEER



**STRUCTURAL PLATE PIPE ARCH**



**DETAIL OF METAL CORRUGATIONS**

**CORRUGATION DIMENSION TOLERANCES**

- ⊕ Tol. 1/4"
- ⊕ Tol. ± 1/8"
- ⊖ Min. 1/16"

**GENERAL NOTES**

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

**TOLERANCES**

Pipe Arch size dimensions are subject to manufacturing tolerances and the ratio of rise (R) to span (S) shall not exceed a tolerance of 5% plus or minus.

Metal corrugation dimension tolerances shall not exceed pertinent dimensions shown elsewhere on this drawing.

**EMBANKMENT—Minimum for C Culverts**

For Flexible Type Pavement, the minimum depth of embankment or cover over top of Pipe Arch (finished construction) shall be "S/10 or 1'-0" minimum.

For Rigid Type Pavement, the minimum depth of embankment over top of Pipe Arch shall be "S/14 or a minimum of 6" cushion between pipe and pavement.

**EMBANKMENT—Maximum for C Culverts**

The maximum depth of embankment shall be 15 feet (finished construction).

Adequate cover protection for Pipe Arches shall be provided at all times during construction operations to preclude any damage to structures.

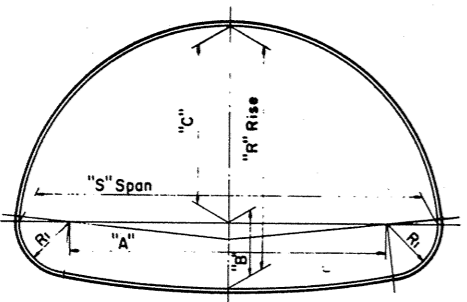
Strutting of Pipe Arches will not be required during construction unless specifically called for on the plans or the applicable Special Provisions.

**TABLE OF PROPERTIES  
STRUCTURAL PLATE PIPE ARCH**

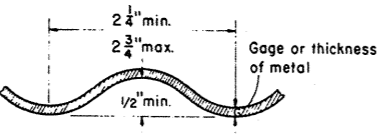
SPAN Nominal Size	Dimensions taken from inside crests of corrugations							Table of Metal Gages—Minimum Acceptable																							
	Fabricators Size Min. Acceptable "S" Span — "R" Rise	R/S Ratio	Area Sq.Ft.	B In.	C In.	R <sub>1</sub> In.	R <sub>2</sub> In.	H-20 LOADING																							
								Depth of Embankment in Feet																							
																	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15
6 Feet	6'-1" x 4'-7"	.75	22	21.0	37.0	36.7	76.4	12	12	12	12	12	12	12	12	12	12	12	12	12	12	12	12	12	12	12	12				
7 "	7'-0" x 5'-1"	.73	28	21.4	48.0	42.3	104.5	10	12	12	12	12	12	12	12	12	12	12	12	12	12	12	12	12	10	10					
8 "	7'-11" x 5'-7"	.70	35	21.7	59.0	47.7	138.4	10	10	10	12	12	12	12	12	12	12	12	12	12	12	12	10	10	10	10					
9 "	8'-10" x 6'-1"	.69	43	21.8	70.0	53.0	179.2	10	10	10	10	10	10	10	10	10	10	10	10	10	10	10	10	10	8	8					
10 "	9'-9" x 6'-7"	.67	52	21.9	81.0	58.3	228.0	8	8	10	10	10	10	10	10	10	10	10	10	10	10	10	8	8	8	7					
11 "	10'-11" x 7'-1"	.65	61	25.1	95.0	65.8	180.8	8	8	8	10	10	10	10	10	10	10	8	8	8	7	7	7	7	5	5					
12 "	11'-10" x 7'-7"	.64	71	25.2	106.0	71.1	217.0	7	8	8	8	8	8	8	8	8	8	8	8	8	7	7	5	5	3	3					
13 "	12'-10" x 8'-4"	.65	85	24.0	118.0	77.2	315.2	5	7	8	8	8	8	8	8	8	7	7	5	5	3	3	1	1	1	1					
14 "	13'-11" x 8'-7"	.62	93	28.9	131.0	84.4	220.8	5	5	7	7	8	8	8	7	7	5	5	3	3	1	1	1	1	1	1					
15 "	14'-10" x 9'-1"	.61	105	28.9	142.0	89.5	254.9	3	5	5	7	7	7	7	5	3	3	1	1	1	1	1	1	1	1	1					
16 "	15'-10" x 9'-10"	.62	122	27.4	154.0	95.4	339.1	1	3	5	5	7	7	5	3	3	1	1	1	1	1	1	1	1	1	1					
16.5 "	16'-7" x 10'-1"	.61	131	28.7	163.0	99.8	333.8	1	3	3	5	5	5	3	1	1	1	1	1	1	1	1	1	1	1	1					

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

**STRUCTURAL PLATE PIPE ARCH**



**CORRUGATED METAL PIPE ARCH  
(Riveted)**



**DETAIL OF METAL CORRUGATIONS**

**GENERAL NOTES**

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

**TOLERANCES**

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

**EMBANKMENT—Minimum for C Culverts**

For Flexible Type Pavement, the minimum depth of embankment or cover over top of Pipe Arch (finished construction) shall be "S/10 or 9" minimum.

For Rigid Type Pavement, the minimum depth of embankment over top of Pipe Arch shall be "S/14 or a minimum of 3" cushion between pipe and pavement.

**EMBANKMENT—Maximum for C Culverts**

The maximum depth of embankment shall be 10 feet (finished construction).

Adequate cover protection for Pipe Arches shall be provided at all times during construction operations to preclude any damage to structures.

**TABLE OF DIMENSIONS  
CORRUGATED METAL PIPE ARCH**

CORRUGATED METAL PIPE ARCH									Round Pipe of Approx. Equal Periphery	
Gage (Min. Acceptable)	"S" Span Inches	"R" Rise Inches	"A" Inches	"B" Inches	"C" Inches	R <sub>1</sub> Inches	R/S Ratio	Area Sq.Ft.	Area Sq.Ft.	Diam. Inches
16	18	11	10	4 1/2	6 1/2	3 1/2	.61	1.1	1.23	15
16	22	13	14	4 3/4	8 1/4	4	.59	1.6	1.77	18
16	25	16	17	5 1/4	10 3/4	4	.64	2.2	2.41	21
14	29	18	20	5 1/2	12 1/2	4 1/2	.62	2.8	3.14	24
14	36	22	26	6 1/4	15 3/4	5	.61	4.4	4.91	30
12	43	27	32	7	20	5 1/2	.63	6.4	7.07	36
12	50	31	38	8	23	6	.62	8.7	9.62	42
12	58	36	44	9 1/4	26 3/4	7	.62	11.4	12.57	48
12	65	40	49	10 1/2	29 1/2	8	.62	14.3	15.90	54
10	72	44	54	11 3/4	32 1/4	9	.61	17.6	19.64	60

NOTE: All Dimensions measured from inside crest of corrugations.

**CORRUGATED METAL PIPE ARCH**

**STRUCTURAL PLATE PIPE ARCH  
CORRUGATED METAL PIPE ARCH**

STATE HIGHWAY COMMISSION OF WISCONSIN

RECOMMENDED FOR APPROVAL

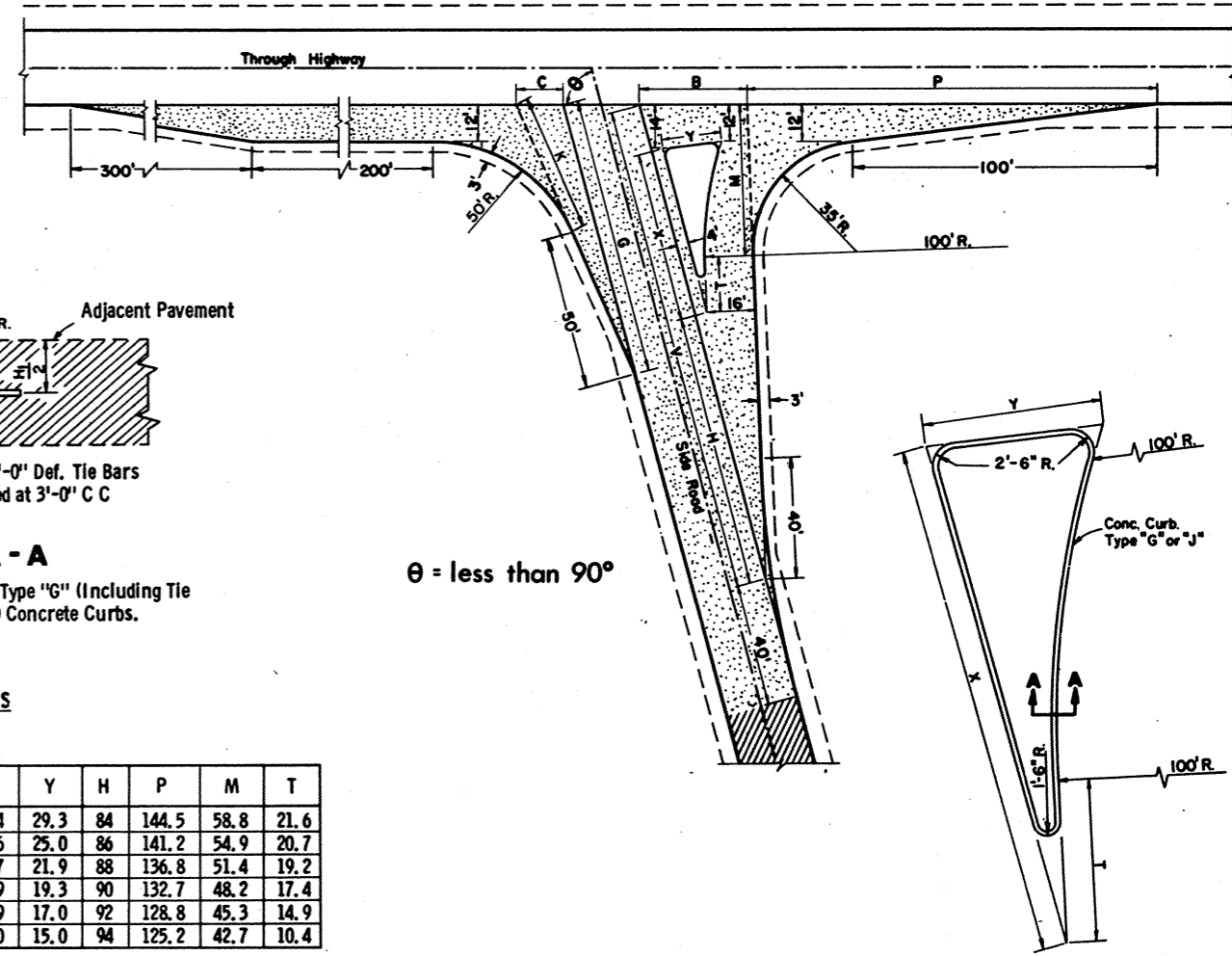
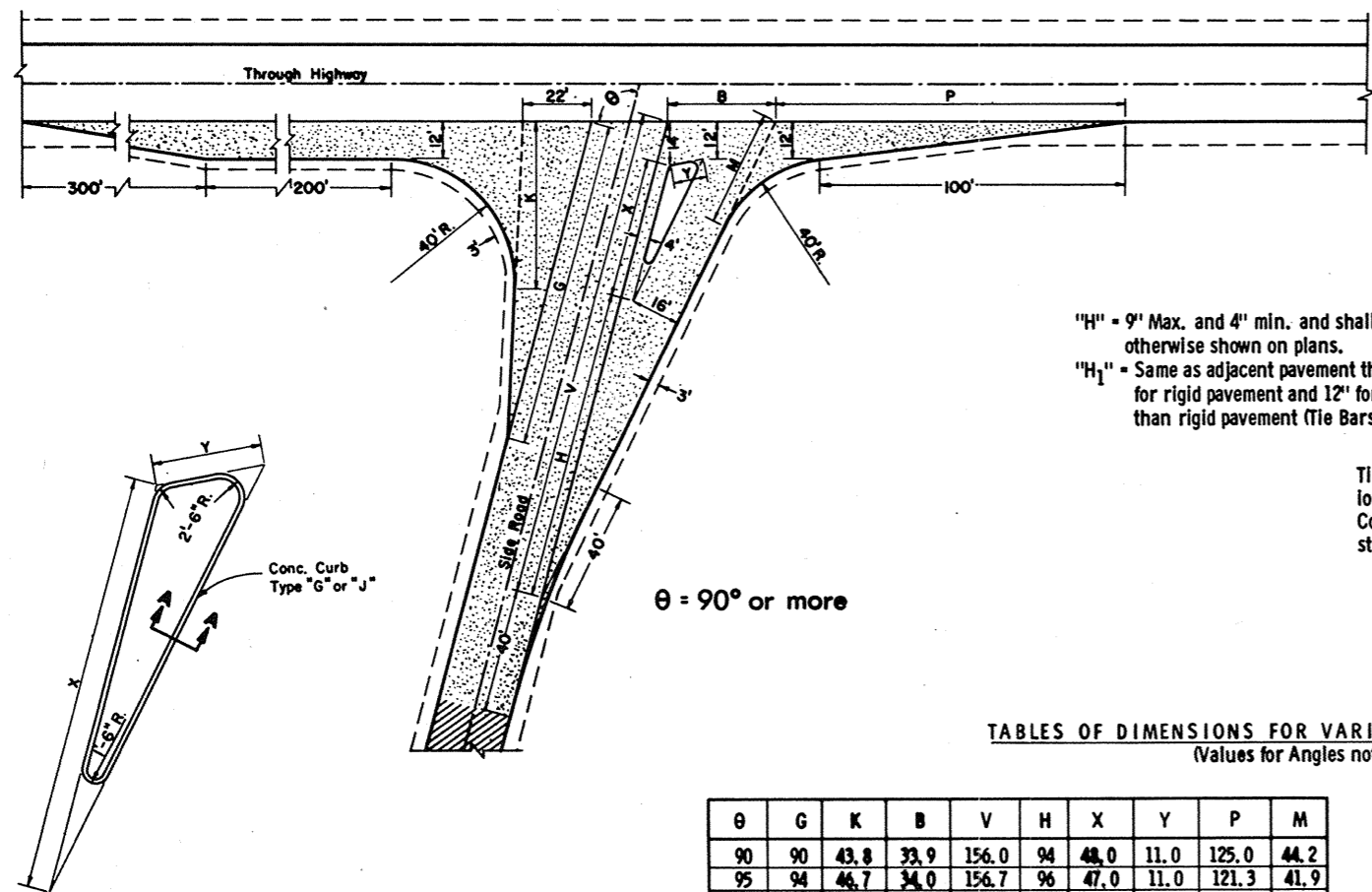
DATE 2-5-63

*J. S. Pitt*  
ENGINEER OF DESIGN

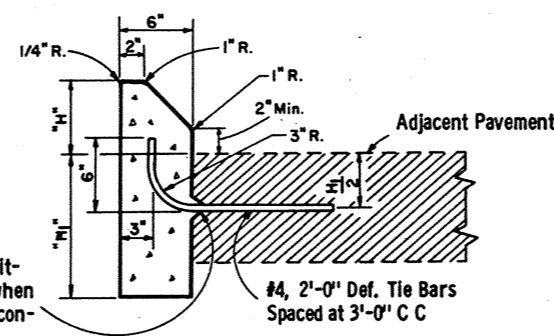
APPROVED:

DATE 2/6/63

*E. G. Rootiger*  
STATE HIGHWAY ENGINEER



"H" = 9" Max. and 4" min. and shall be 6" unless otherwise shown on plans.  
 "H<sub>1</sub>" = Same as adjacent pavement thickness for rigid pavement and 12" for other than rigid pavement (Tie Bars Omitted).



SECTION A-A

Note: To be measured and paid for as Type "G" (Including Tie Bars) or Type "J" (Excluding Tie Bars) Concrete Curbs.

TABLES OF DIMENSIONS FOR VARIABLE SIDE ROAD INTERSECTION ANGLES  
 (Values for Angles not shown shall be interpolated)

θ	G	K	B	V	H	X	Y	P	M
90	90	43.8	33.9	156.0	94	48.0	11.0	125.0	44.2
95	94	46.7	34.0	156.7	96	47.0	11.0	121.3	41.9
100	98	50.0	34.4	157.4	98	45.9	11.0	117.7	39.7
105	102	53.8	35.2	158.3	100	44.9	11.2	114.2	37.8
110	106	58.2	36.4	159.2	102	43.7	11.4	110.6	36.2
115	110	63.4	38.4	161.8	104	42.6	11.7	107.1	34.8
*120	114	69.4	40.1	161.2	106	41.4	12.2	103.4	33.7

\*Maximum angle of intersection

θ	C	G	K	B	V	X	Y	H	P	M	T
*60	19.7	76.3	38.6	41.5	169.9	67.4	29.3	84	144.5	58.8	21.6
65	17.8	82.6	40.6	39.4	166.9	63.6	25.0	86	141.2	54.9	20.7
70	15.8	87.2	43.1	37.4	164.1	59.7	21.9	88	136.8	51.4	19.2
75	15.7	90.9	45.6	35.7	161.4	55.9	19.3	90	132.7	48.2	17.4
80	15.9	94.9	48.3	34.4	158.9	51.9	17.0	92	128.8	45.3	14.9
85	16.2	99.3	51.4	33.4	156.4	48.0	15.0	94	125.2	42.7	10.4

\*Desirable Minimum angle of intersection

**TYPE "A" SIDE ROAD INTERSECTION DETAILS**

**GENERAL NOTES**

Designs may be used interchangeably in combination or separately for any one complete intersection depending upon 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.

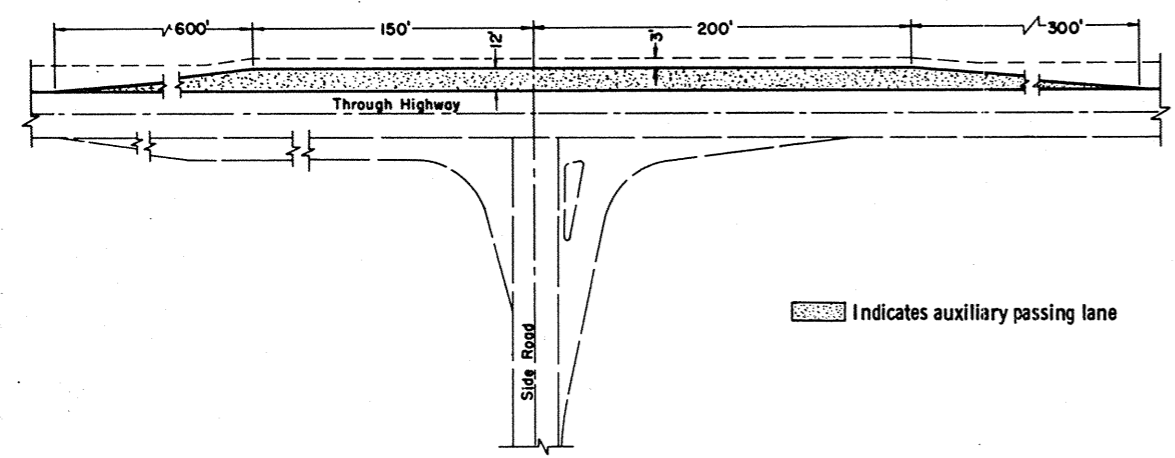
**SIDE ROAD SURFACING NOTE**

If the side road is not presently paved, pavement shall be placed to the limits shown. In the case where the construction limits are beyond the paving limits, gravel or crushed stone surfacing shall be placed between the paving limits and construction limits.

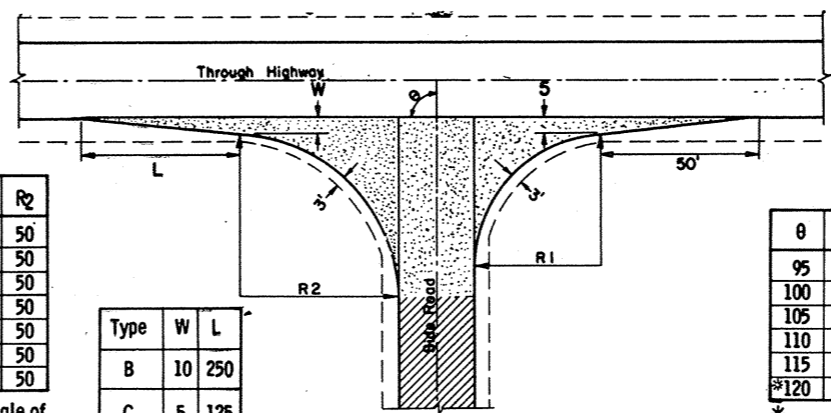
If the side road is presently paved, new pavement shall be placed to the limits of design as shown and beyond, if necessary, to meet existing pavement.

If side road is the construction project, the intersection surfacing shall be the same as for the project.

- New Pavement
- Existing Surface



**PASSING LANE DETAIL**



θ	R <sub>1</sub>	R <sub>2</sub>
*60	40	50
65	40	50
70	40	50
75	40	50
80	40	50
85	40	50
90	40	50

\*Min. Angle of Intersection

Type	W	L
B	10	250
C	5	125

θ	R <sub>1</sub>	R <sub>2</sub>
95	45	49
100	50	48
105	55	47
110	60	46
115	65	45
*120	70	44

\*Max. Angle of Intersection

**TYPE "B" & "C" SIDE ROAD INTERSECTION DETAILS**

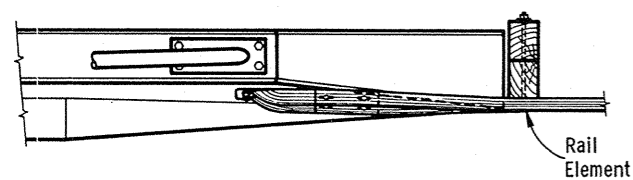
**LAYOUT DETAILS FOR AT-GRADE SIDE ROAD INTERSECTIONS**

State Highway Commission of Wisconsin

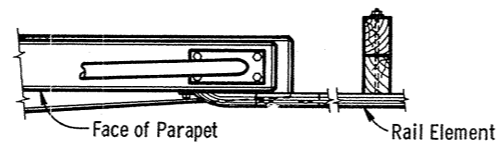
RECOMMENDED FOR APPROVAL: *E.J. Rydzek*  
 DATE: 8/9/67  
 TITLE: CHIEF DESIGN ENGINEER

APPROVED: *A. J. ...*  
 DATE: 8/9/67  
 TITLE: STATE HIGHWAY ENGINEER

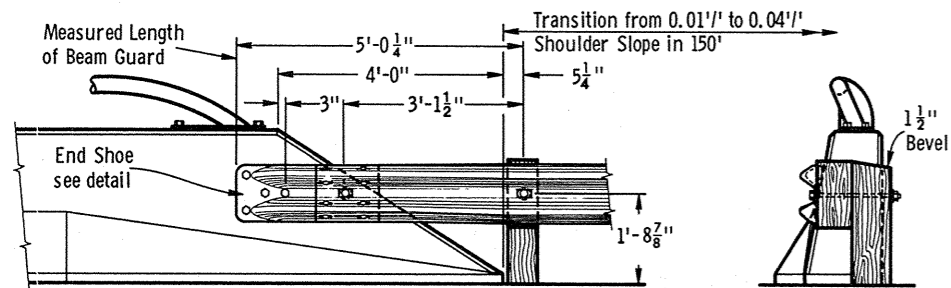




PLAN VIEW



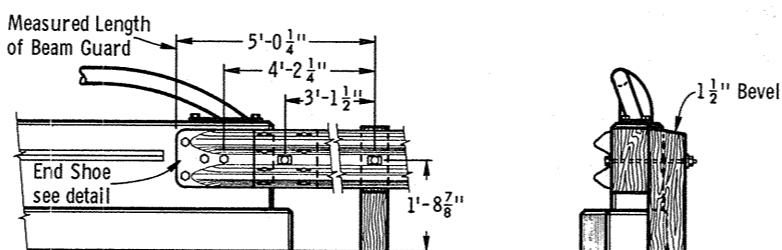
PLAN VIEW



FRONT ELEVATION

END ELEVATION

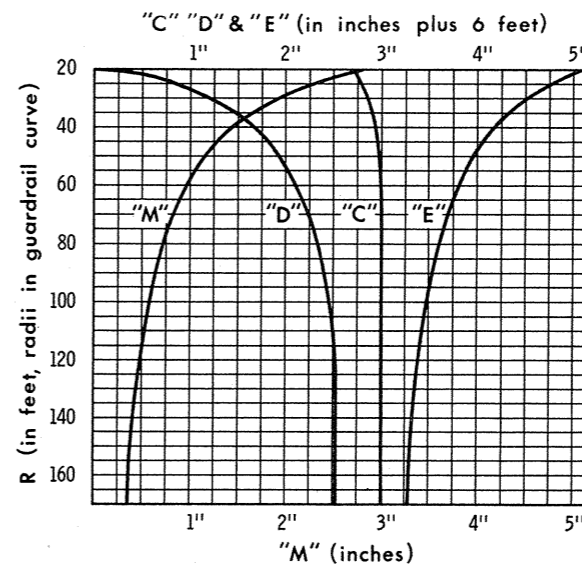
STRUCTURE MOUNTING DETAIL



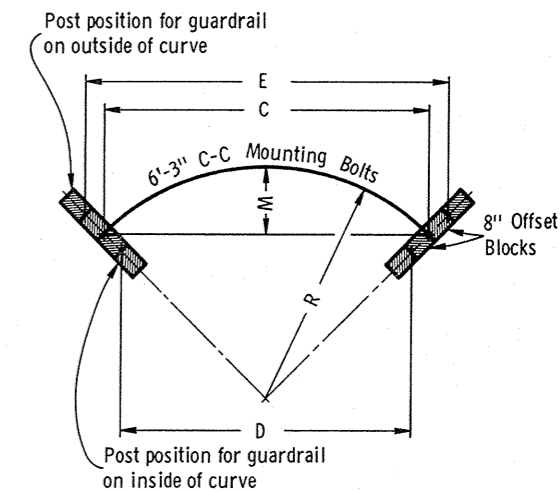
FRONT ELEVATION

END ELEVATION

STRUCTURE MOUNTING DETAIL



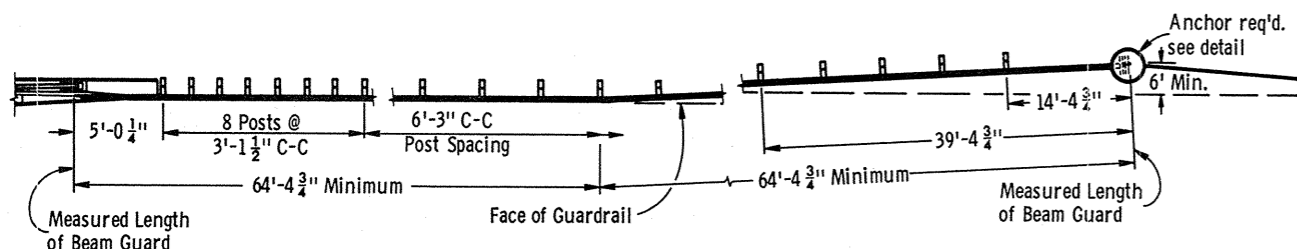
CURVE DATA FOR POST SPACING AND BEAM CURVING



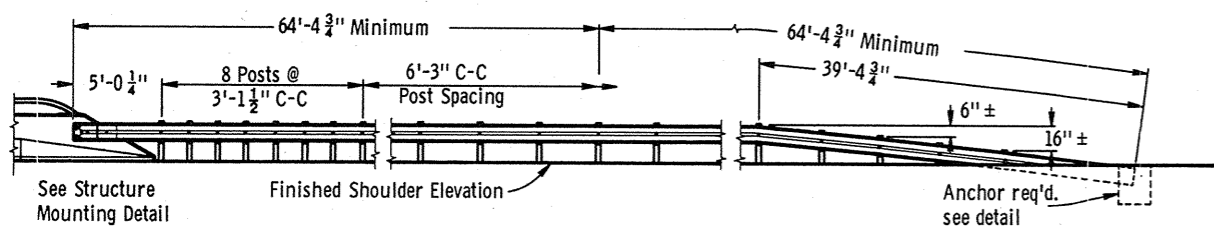
CHORD LENGTHS FOR POST SPACING AND MIDDLE ORDINATES FOR BEAM CURVING

**SLOPING TYPE PARAPET WALL**

**VERTICAL TYPE PARAPET WALL**

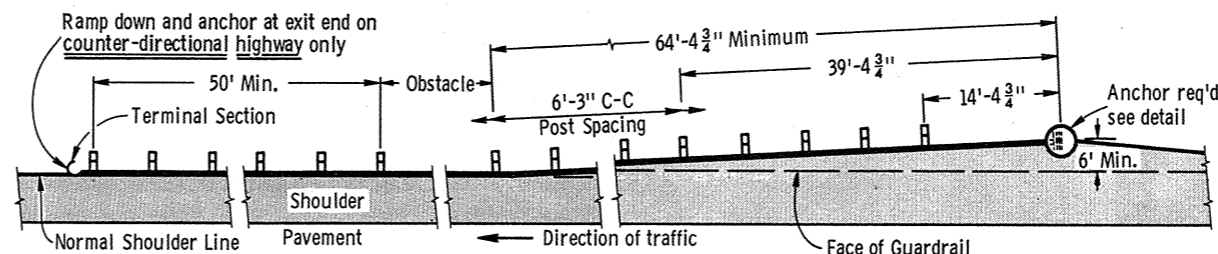


PLAN VIEW



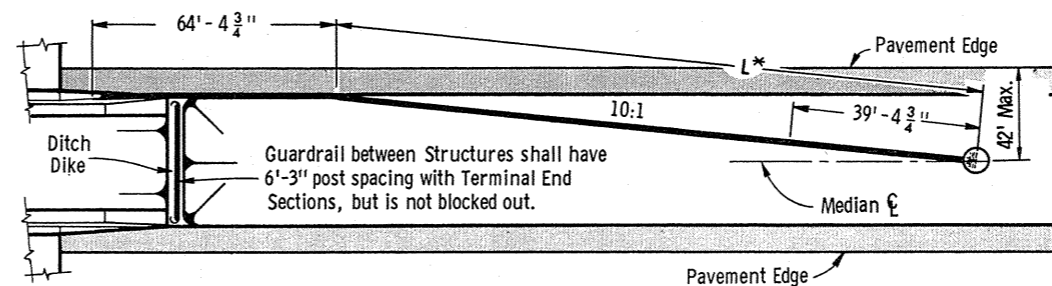
FRONT ELEVATION

TYPICAL OUTSIDE SHOULDER INSTALLATION AT STRUCTURES



PLAN VIEW

TYPICAL INSTALLATION AT LOCATIONS OTHER THAN STRUCTURES



PLAN VIEW

MEDIAN PROTECTION

**GENERAL NOTES**

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

The exact location of the beginning and end of each Guardrail installation shall be as shown on the plans or as directed by the Engineer.

Square anchor alternates will be permitted. Square anchors shall be a minimum of 24 inches x 24 inches.

The shoulder widening to accommodate the anchored end of the Guardrail shall be accomplished at a rate of widening not to exceed 50 to 1.

Upon approval of the Engineer, the 6 foot anchor offset may be reduced to nothing for replacement installations where existing conditions will not permit the desirable offset. However, when no offset greater than or equal to 3 feet can be provided, the minimum length of guardrail in advance of an obstacle (obstacle to anchor) shall be 150 feet.

The "Post Footing Details At Piers" shall be used when guardrail posts are over structure footings and less than 3 feet-6 inches of earth is provided over the top of the footing.

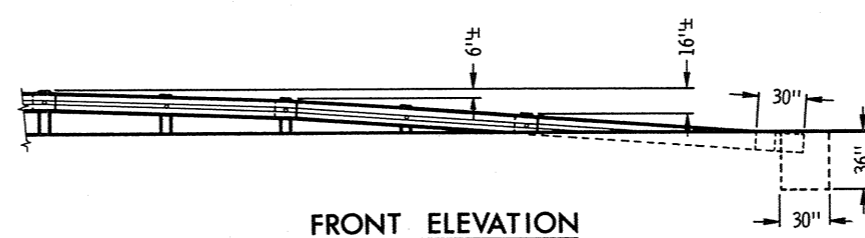
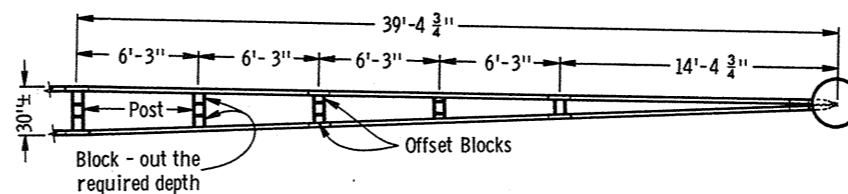
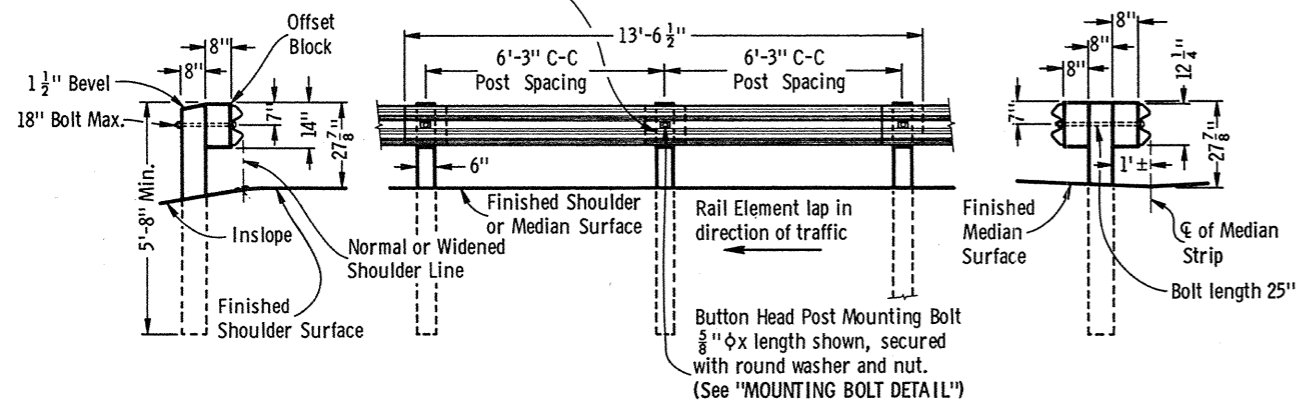
*NOTE: This Standard Detail Drawing consists of two plates, and both plates are required when this Standard is called for in the plans.*

**CLASS "A"  
STEEL PLATE BEAM GUARD &  
STEEL PLATE BEAM MEDIAN GUARD**

*State of Wisconsin  
Department of Transportation  
Division of Highways*

One foot long section of rail element, with a  $\frac{3}{4}$ " slotted hole for mounting, shall be placed behind the continuous rail element at the intermediate posts.

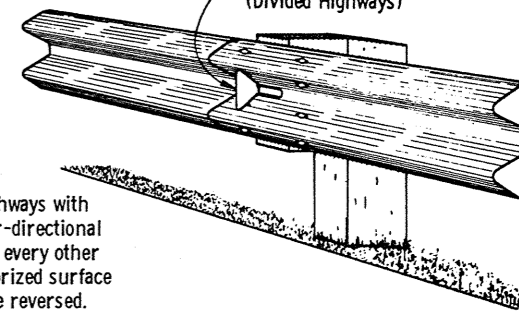
Sawn treated timber posts 6" x 8" x 6'-0" and sawn treated timber offset blocks 6" x 8" x 14" shall be furnished and placed in accordance with Standard Specifications.



**ANCHOR DETAIL FOR DOUBLE RAIL ELEMENT INSTALLATION**

Reflector Spacing 12'-6" C-C (Counter-directional Highways)  
 Reflector Spacing 25'-0" C-C (Divided Highways)

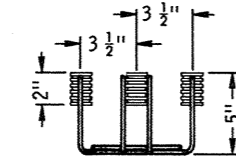
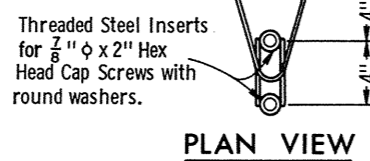
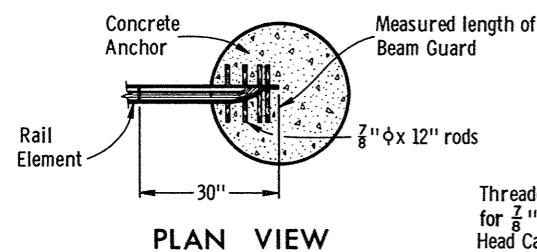
NOTE: For highways with counter-directional traffic, every other reflectorized surface shall be reversed.



The reflectorized surface shall consist of Silver Reflective Sheeting of the type used as background on Type I, Type II or Type III signs.

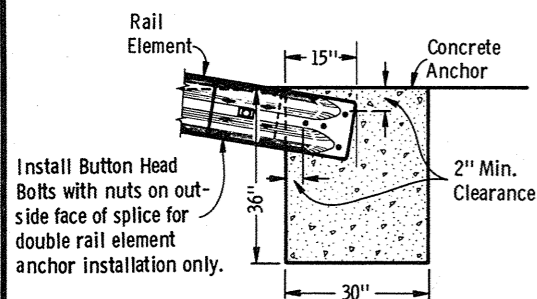
**TYPICAL INSTALLATION**

**STEEL PLATE BEAM GUARD OR STEEL PLATE BEAM MEDIAN GUARD**

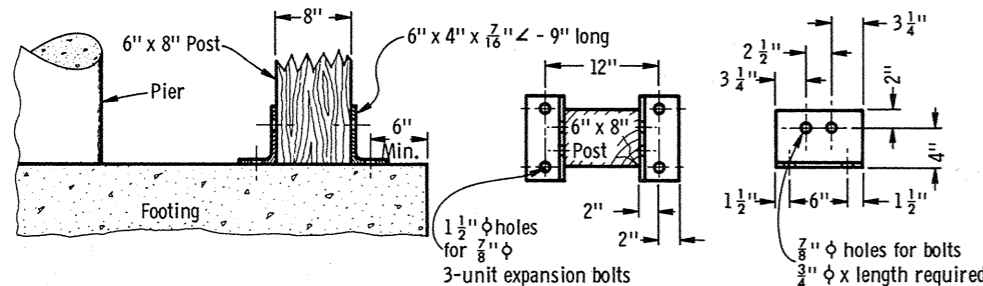


**ELEVATION**  
**4 BOLT INSERT ASSEMBLY**

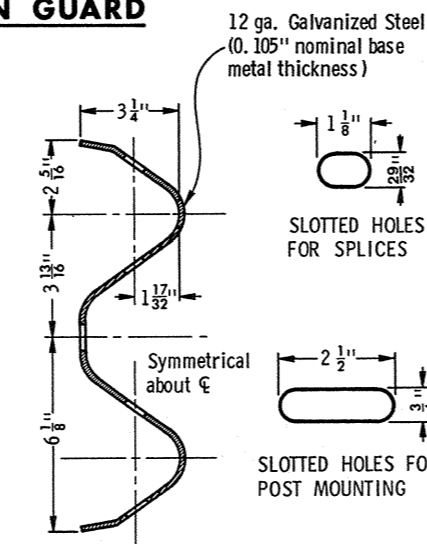
NOTE: Installation of 4 Bolt Insert Assembly (with Cap Screws inserted) to be part of Bridge Contract.



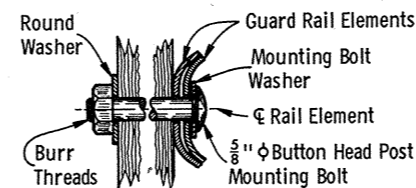
**SECTION VIEW**  
**ANCHOR DETAIL**  
**SINGLE RAIL ELEMENT INSTALLATION**



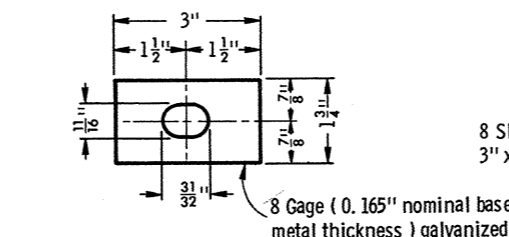
**SECTION VIEW**  
**POST FOOTING DETAIL AT PIERS**



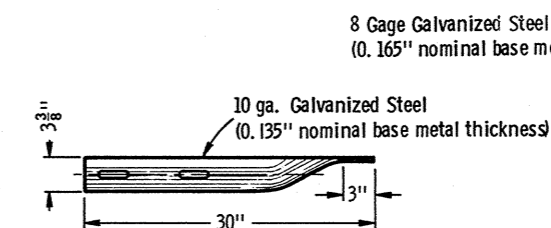
**SECTION THRU RAIL ELEMENT**



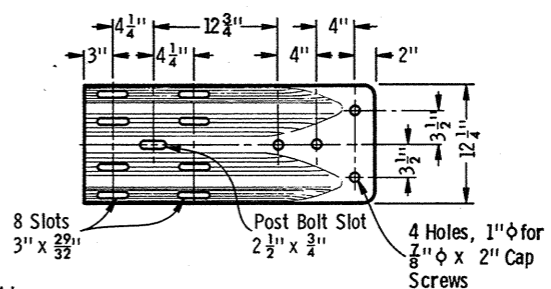
**MOUNTING BOLT DETAIL**



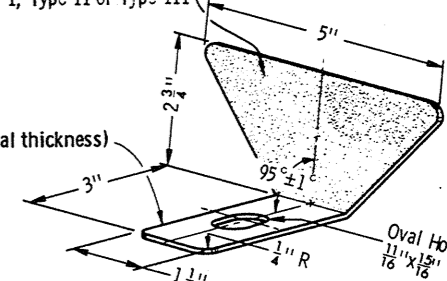
**MOUNTING BOLT WASHER**



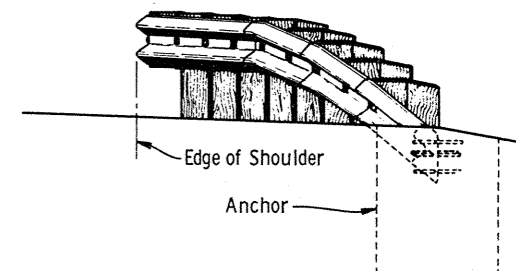
**END SHOE DETAIL**



**END SHOE DETAIL**

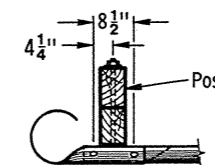


**REFLECTOR DETAIL**

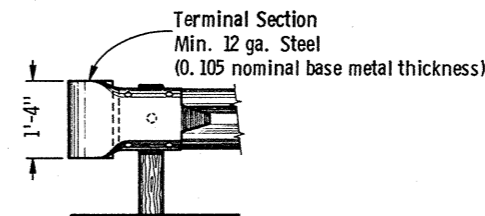


**TYPICAL TERMINAL END ELEVATION**

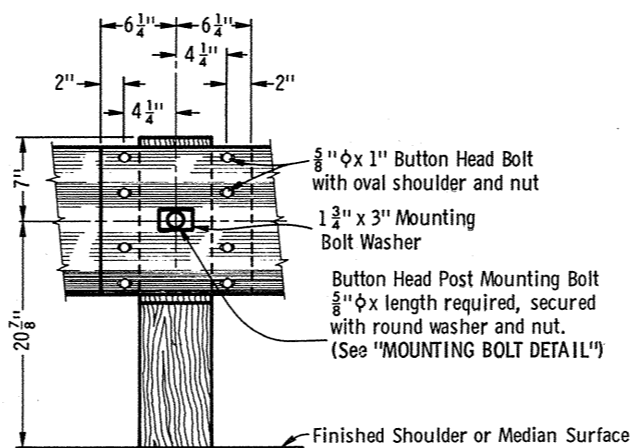
NOTE: This Standard Detail Drawing consists of two plates, and both plates are required when this Standard is called for in the plans.



**PLAN VIEW**



**FRONT ELEVATION**  
**TERMINAL SECTION DETAILS**



**RAIL ELEMENT SPLICING AND POST MOUNTING DETAIL**

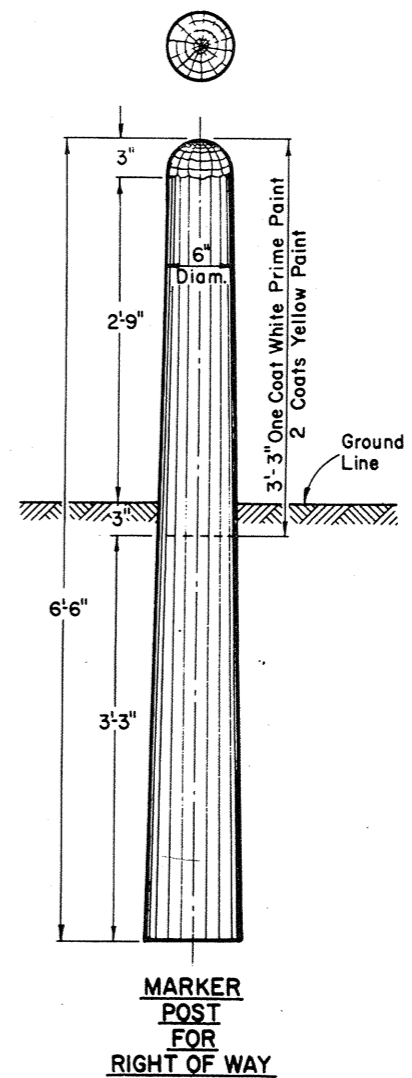
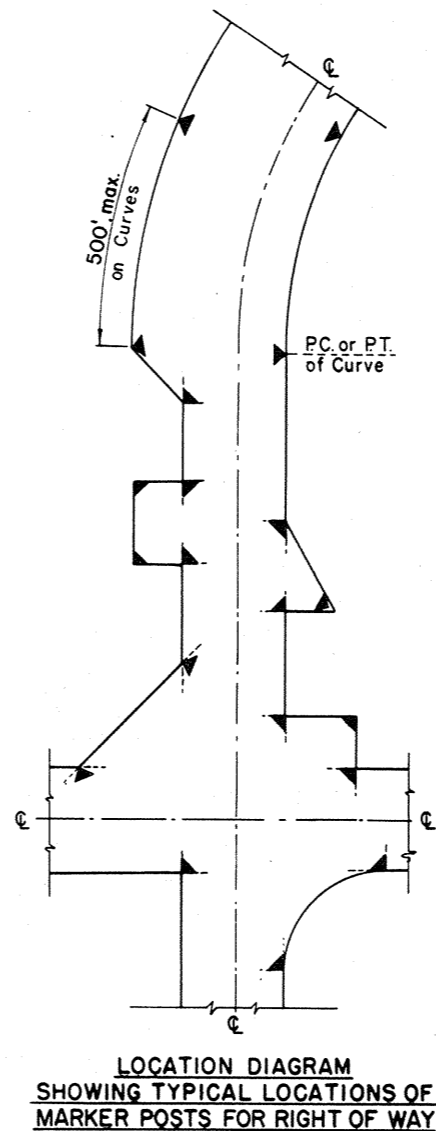
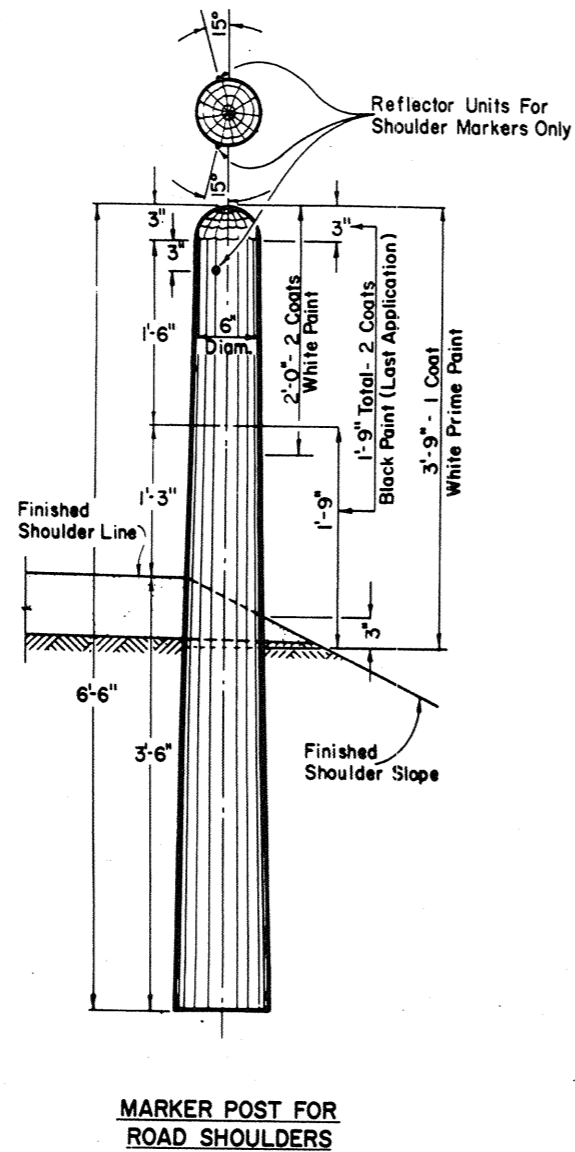
**CLASS "A"**  
**STEEL PLATE BEAM GUARD & STEEL PLATE BEAM MEDIAN GUARD**

State of Wisconsin  
 Department of Transportation  
 Division of Highways

RECOMMENDED FOR APPROVAL:  
 DATE: 3/7/72  
 APPROVED: 3/22/72  
 DATE: 3/22/72

S. C. Hennrich  
 CHIEF DESIGN ENGINEER

S. C. Hicks  
 STATE HIGHWAY ENGINEER



**MARKER POST FOR RIGHT OF WAY**

**GENERAL NOTES**

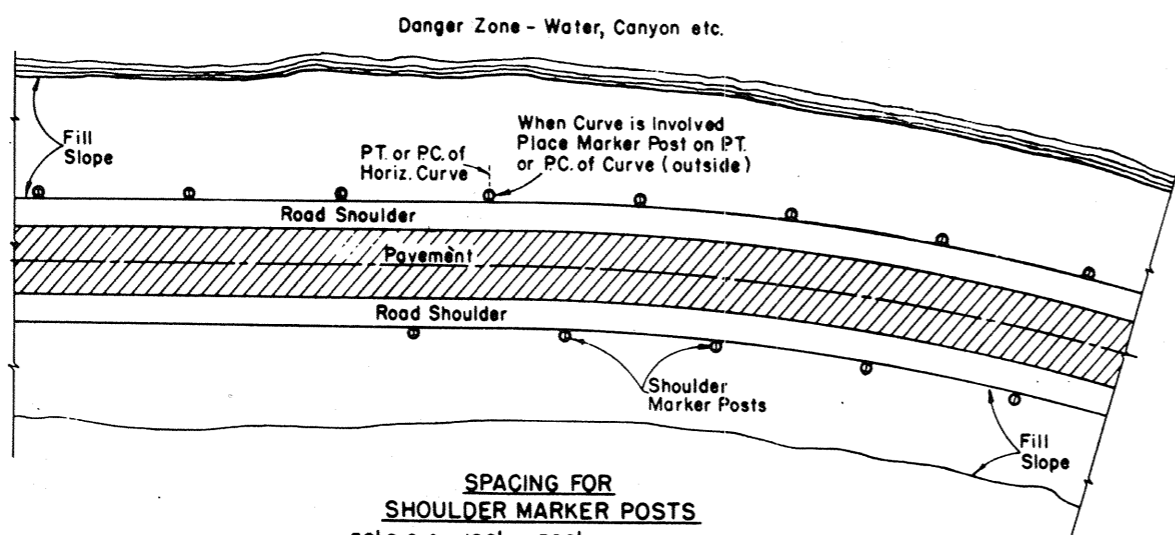
Details of construction not shown on this drawing shall conform to the pertinent requirements of the Standard Specifications and the applicable Special Provisions.

**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.

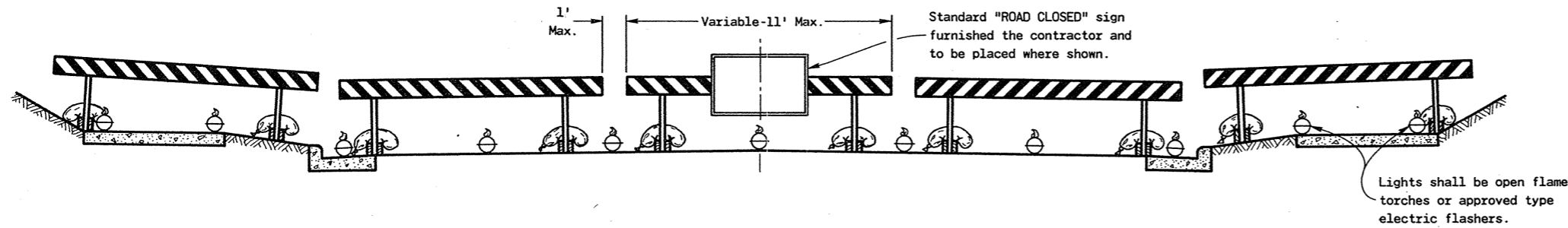
**REFLECTOR UNITS**

Reflector Units shall be installed in road shoulder marker posts only. 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.

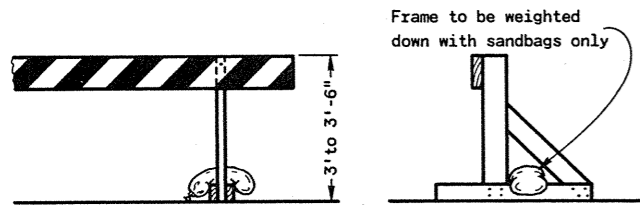


**MARKER POSTS FOR ROAD SHOULDERS**

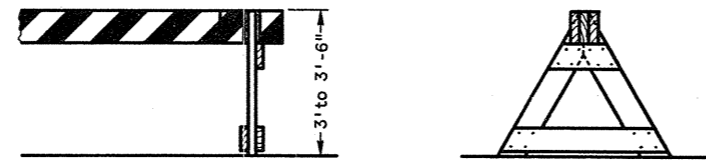
MARKER POSTS & MARKER POSTS FOR RIGHT OF WAY	
State Highway Commission of Wisconsin	
RECOMMENDED FOR APPROVAL DATE 7/6/66	DESIGN ENGINEER E.J. Byrkit
APPROVED: DATE 7/9/66	STATE HIGHWAY ENGINEER H.K. [Signature]



TYPICAL INSTALLATION SHOWING RIGID BARRICADES

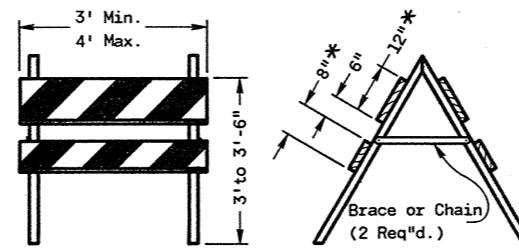


ALTERNATE TYPE INSTALLATION (RIGID)

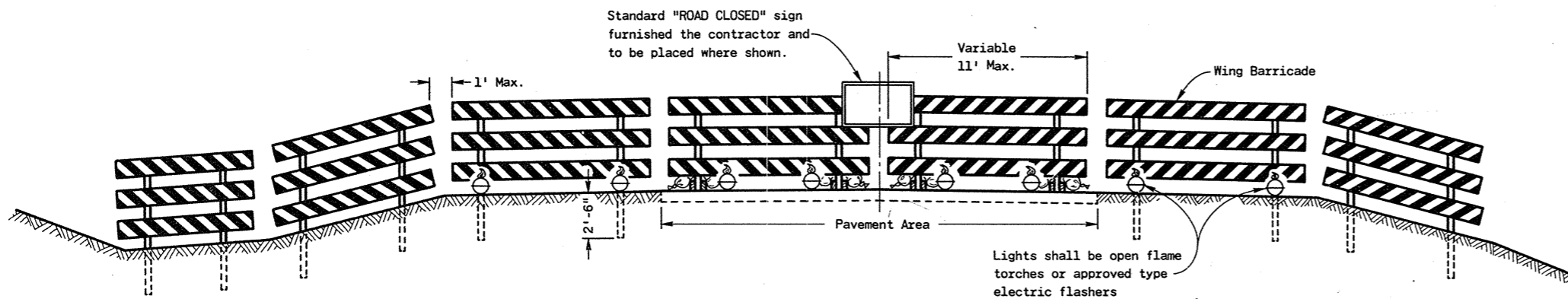


ALTERNATE TYPE INSTALLATION (DEMOUNTABLE)

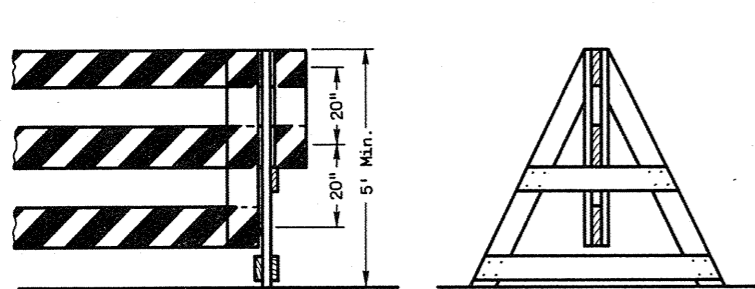
**CLASS I BARRICADES**



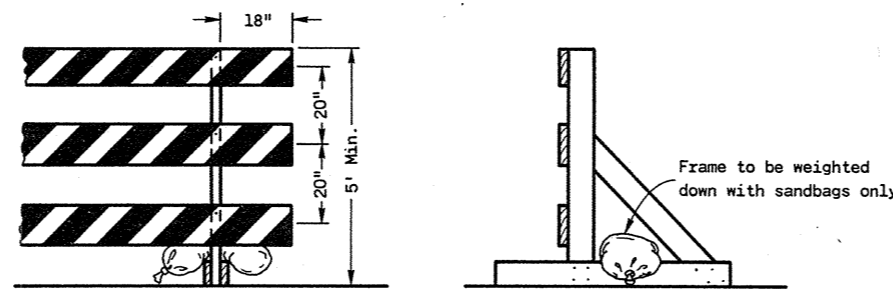
**CLASS II BARRICADE**



TYPICAL INSTALLATION SHOWING FIXED AND RIGID BARRICADES



ALTERNATE TYPE INSTALLATION (DEMOUNTABLE)



ALTERNATE TYPE INSTALLATION (RIGID)

**CLASS III BARRICADES**

**GENERAL NOTES**

The contractor shall construct, place and maintain barricades as shown on the drawing and as required by the Standard Specifications or applicable Special Provisions.

**CLASS I OR CLASS II BARRICADES:**

Class I or II Barricades shall 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.

**CLASS III BARRICADE:**

Class III Barricades shall be of variable length as indicated, and long barricades shall be assembled from these units. The Class III Barricade is the type normally required for major operations, where the barricade will remain in place for extended periods. Class III Barricades shall be used at points where the road is closed to traffic. Gates or movable sections of a barricade shall be provided when necessary, for access of equipment or other authorized vehicles.

Wing Barricades are Class III Barricades erected on the shoulder on one or both sides of the pavement to give traffic the perceptive effect of a narrowing or restricted roadway. The ends closest to traffic of all three members of a Wing Barricade shall be in a vertical line. If used in a series, they should start at the outer edge of the shoulder and be brought progressively closer to the pavement. Wing Barricades may be used as a mounting for the advance warning or guide signs or for flashers. When used on two-way roadways, the back of the Wing Barricade shall be painted white.

**MATERIAL AND FABRICATION:**

Barricades may be constructed of wood, metal or other suitable material. Lumber shall be of a grade structurally sound and sufficiently rigid to satisfactorily support and maintain the purpose and intent of a barricade facility. Metal or other suitable material shall be 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 woodworking and metalworking practices.

**PAINTING:**

All barricades shall have alternate 6 1/2 inch black and 5 1/2 inch white stripes at a 45 degree angle. Black stripes shall be painted with weather resistant and durable black paint. White stripes shall be primed, followed by a coat of white reflectorized paint or shall consist of reflective wide angle sheeting.

**DIRECTION OF DIAGONAL STRIPES:**

Where a barricade extends entirely across the roadway with 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. The stripes on Wing Barricades shall slope downward toward the roadway.

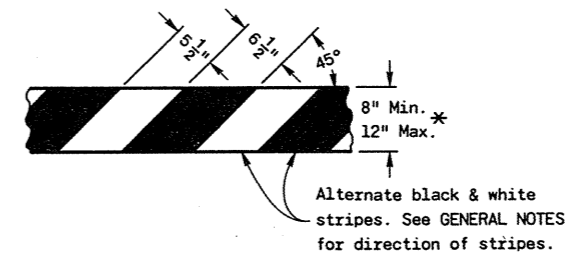
**LIGHTING:**

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

**MEASUREMENT AND 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.

\* Nominal dimensions when barricade is constructed of lumber.



**TYPICAL RAIL**

Applies to all Classes & Alternate Types of Barricades

**CONSTRUCTION BARRICADE**

State of Wisconsin  
Department of Transportation  
Division of Highways

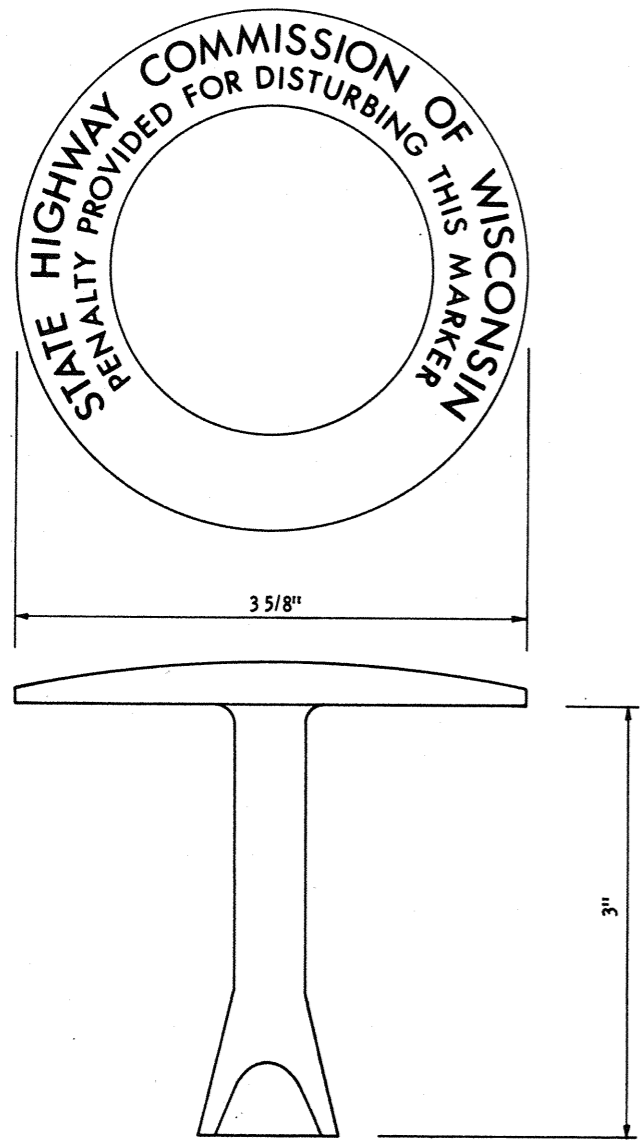
RECOMMENDED FOR APPROVAL:

6-7-72  
DATE

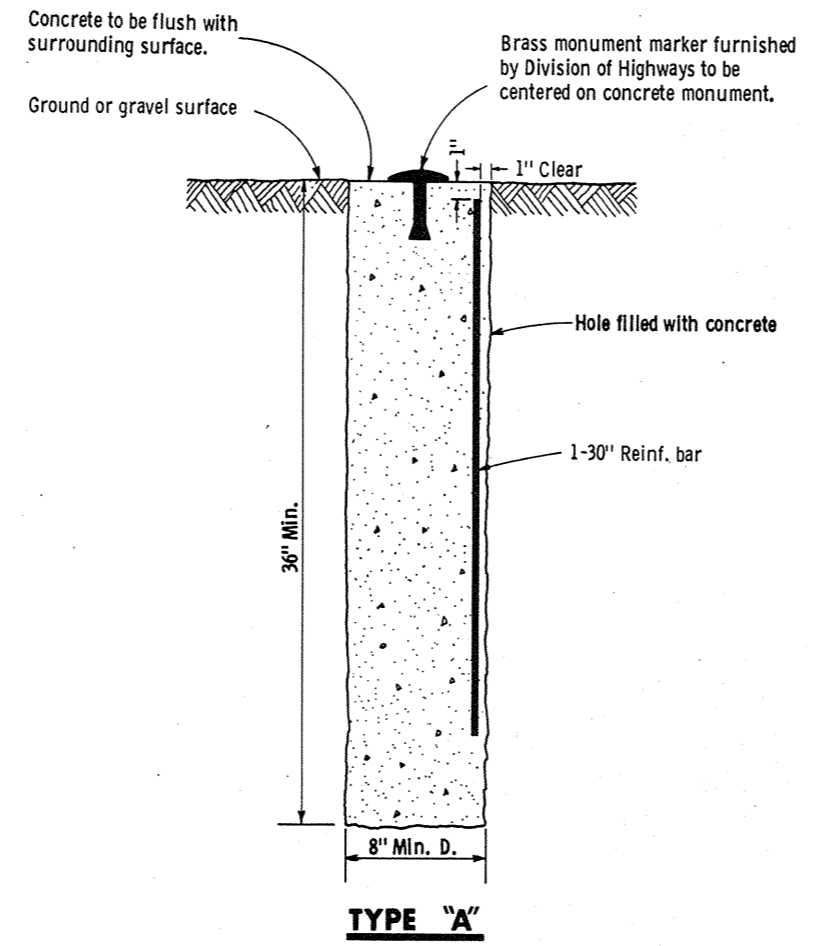
6-9-72  
DATE

*L. C. Hennel*  
CHIEF DESIGN ENGINEER

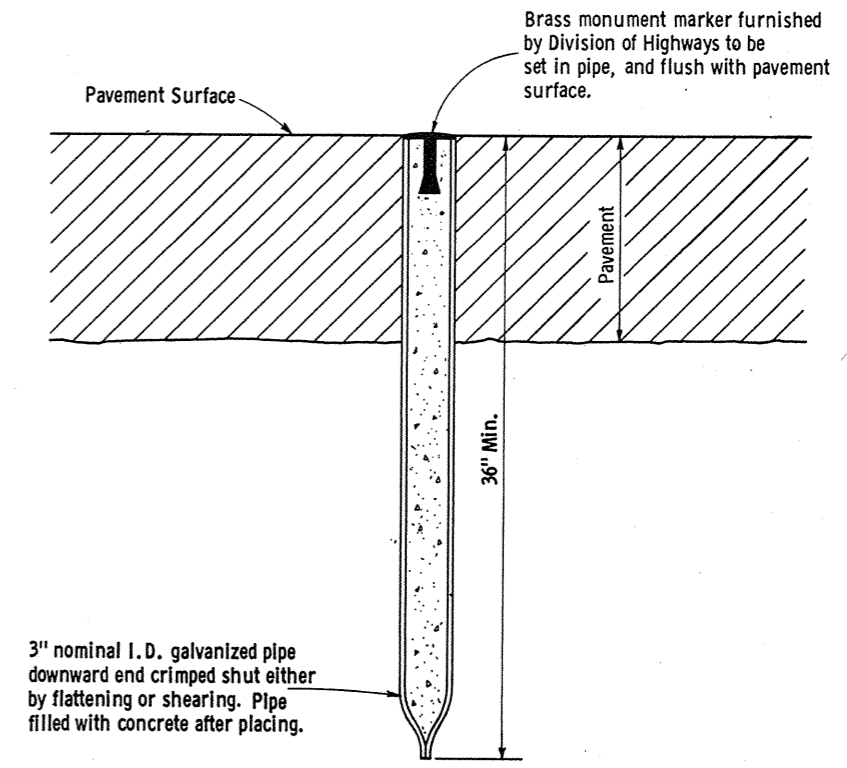
*S. C. Hicks*  
STATE HIGHWAY ENGINEER



**BRASS  
MONUMENT MARKER**  
To be furnished to contractor by  
Division of Highways



**TYPE "A"**  
To be used only when monument is  
required outside of pavement surface.



**TYPE "B"**  
To be used only when monument  
is required to be located within the  
limits of a pavement surface.

**GENERAL NOTES**

Details of construction, materials and workmanship not shown on this drawing shall conform to the Standard Specifications and the applicable Special Provisions.  
Monuments conforming to Type "A" or Type "B", as shown hereon, shall be placed at the direction of the engineer.

LANDMARK REFERENCE MONUMENTS	
State of Wisconsin Department of Transportation Division of Highways	
RECOMMENDED FOR APPROVAL: DATE: 1/25/68	E. J. Rybit CHIEF DESIGN ENGINEER
APPROVED: DATE: 2/18/68	H. J. L... STATE HIGHWAY ENGINEER

S. D. D. 16A1-1

S. D. D. 16A1-1

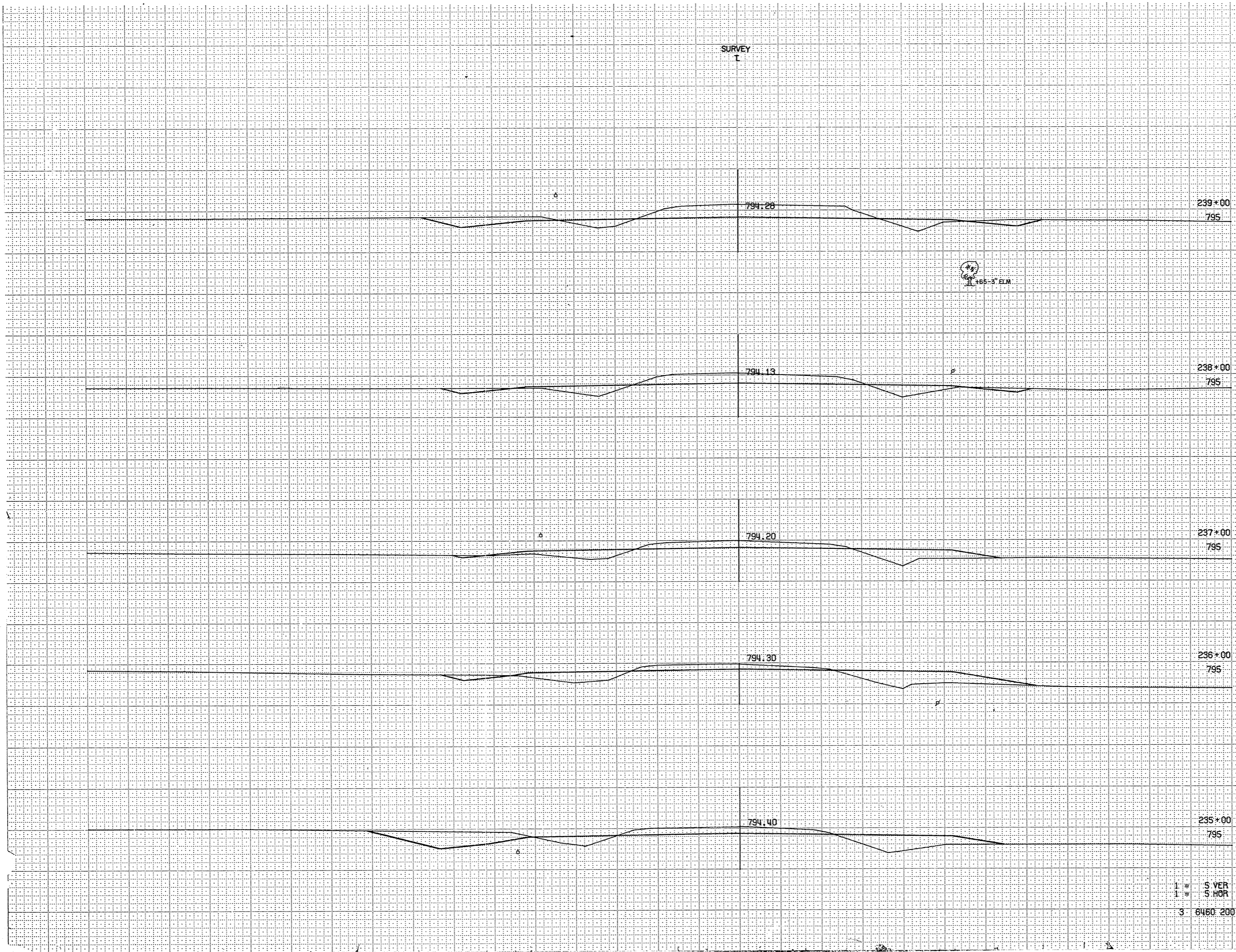
29/66

SURVEY  
T

8

REGION DIVISION	PROJECT	SHEET NUMBER	TOTAL SHEETS
WIS	S 1260 (4)	8	

STATION	DISTANCE	YARDAGE	
		EXCAVATION	FILL
235			
236	106		124
237	61		122
238	93		83
239	156		56
TOTAL		416	385



1" = 5' VER  
 1" = 5' HOR  
 3. 6460 20013

20

SURVEY  
L

REGION DIVISION	PROJECT	SHEET NUMBER	TOTAL SHEETS
WIS	S 1260 (4)	8.1	
STATION	DISTANCE	TARGE	
		EXCAVATION	FILL
		UNCL	
239		144	65
240		80	91
241		57	107
242		54	106
243		56	89
244			
TOTAL		391	458

1 = S VER  
 1 = S HOR  
 3 6460 20013

244+00  
800

243+00  
800

242+00  
800

241+00  
800

240+00  
795

796.78

797.38

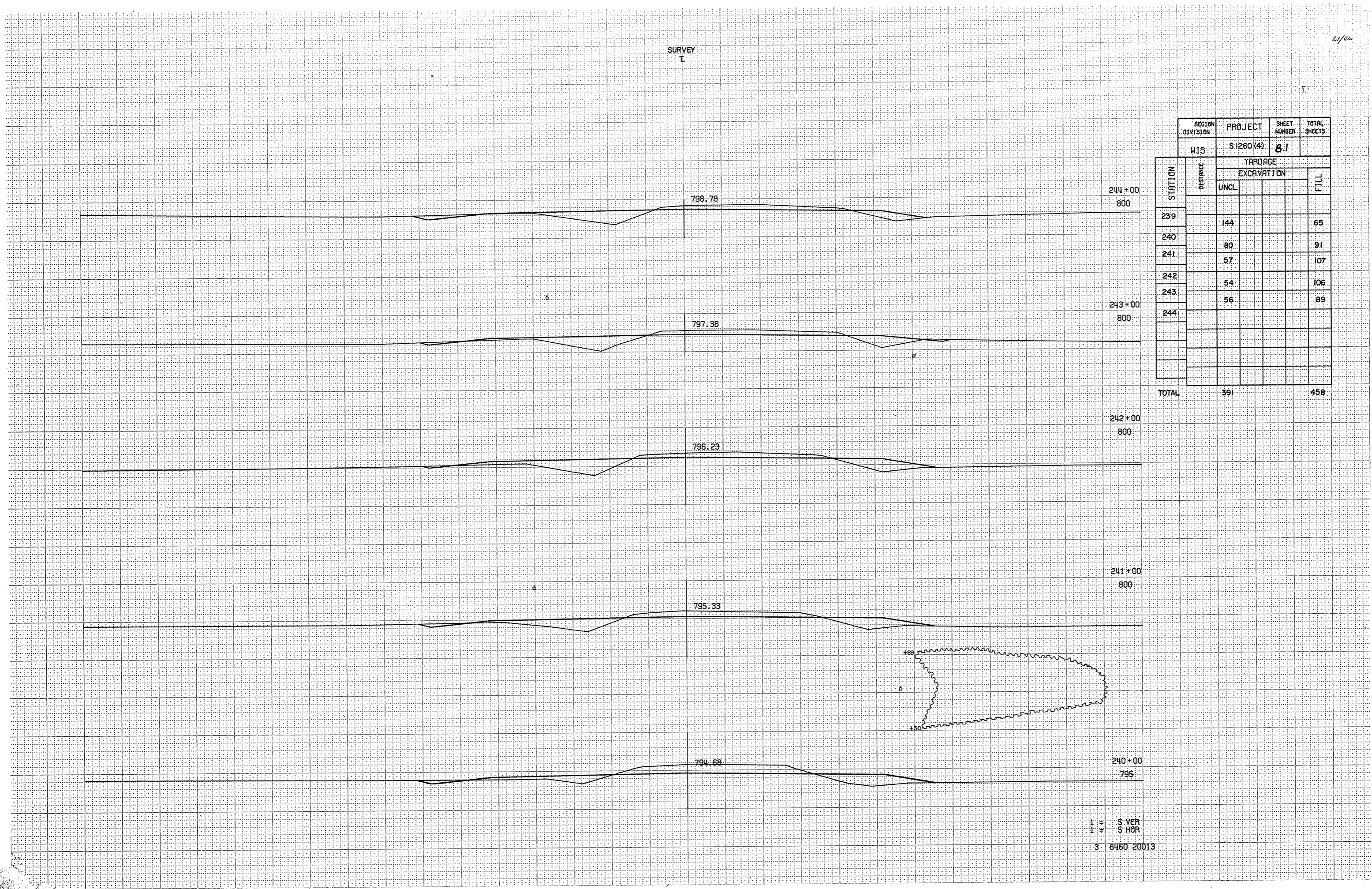
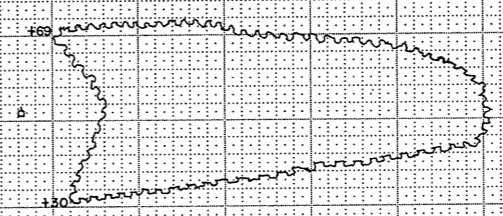
796.23

795.33

794.68

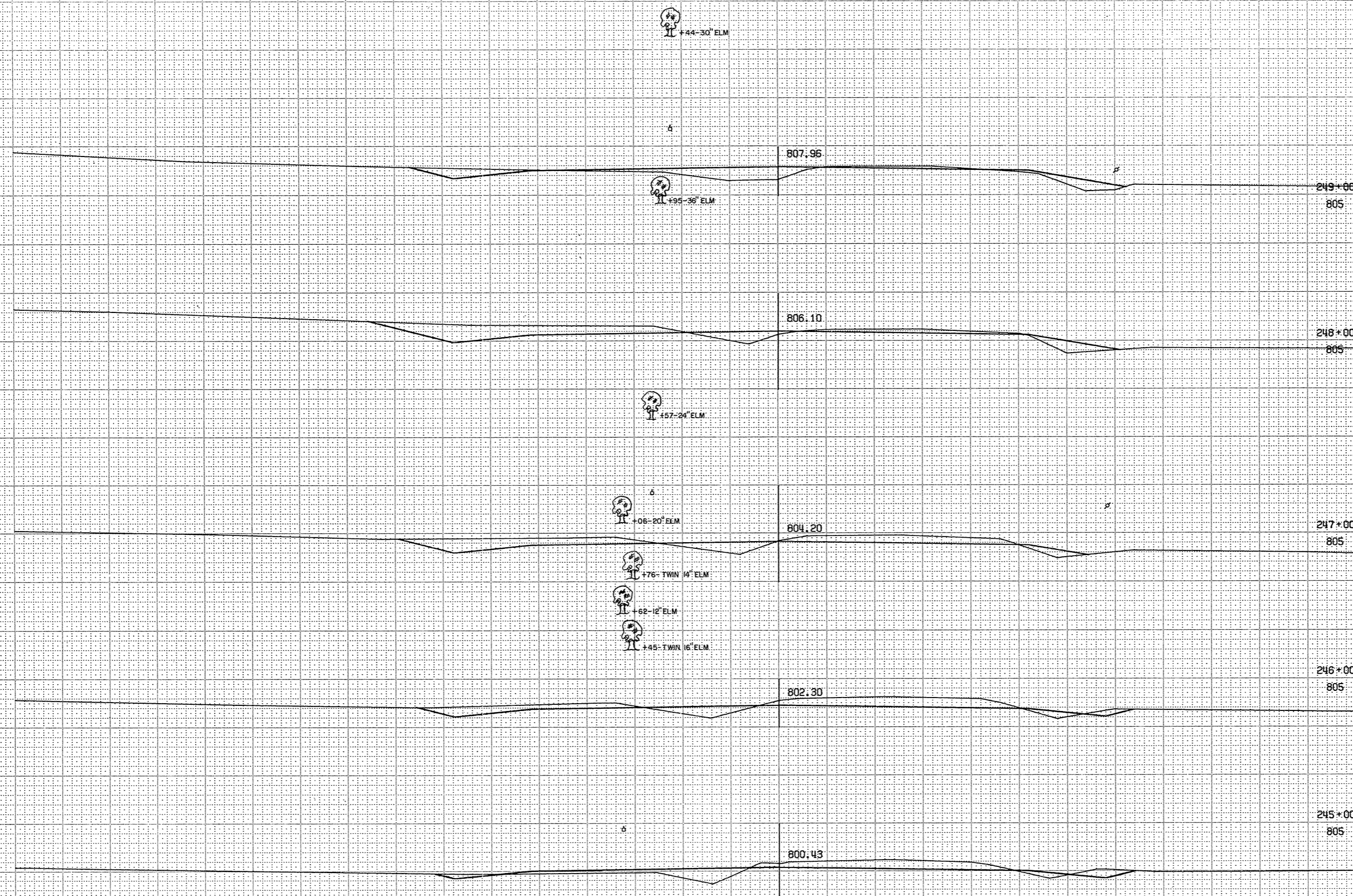
6

6



2/6

SURVEY  
T



REGION DIVISION	PROJECT	SHEET NUMBER	TOTAL SHEETS
WIS	S 1260 (4)	82	

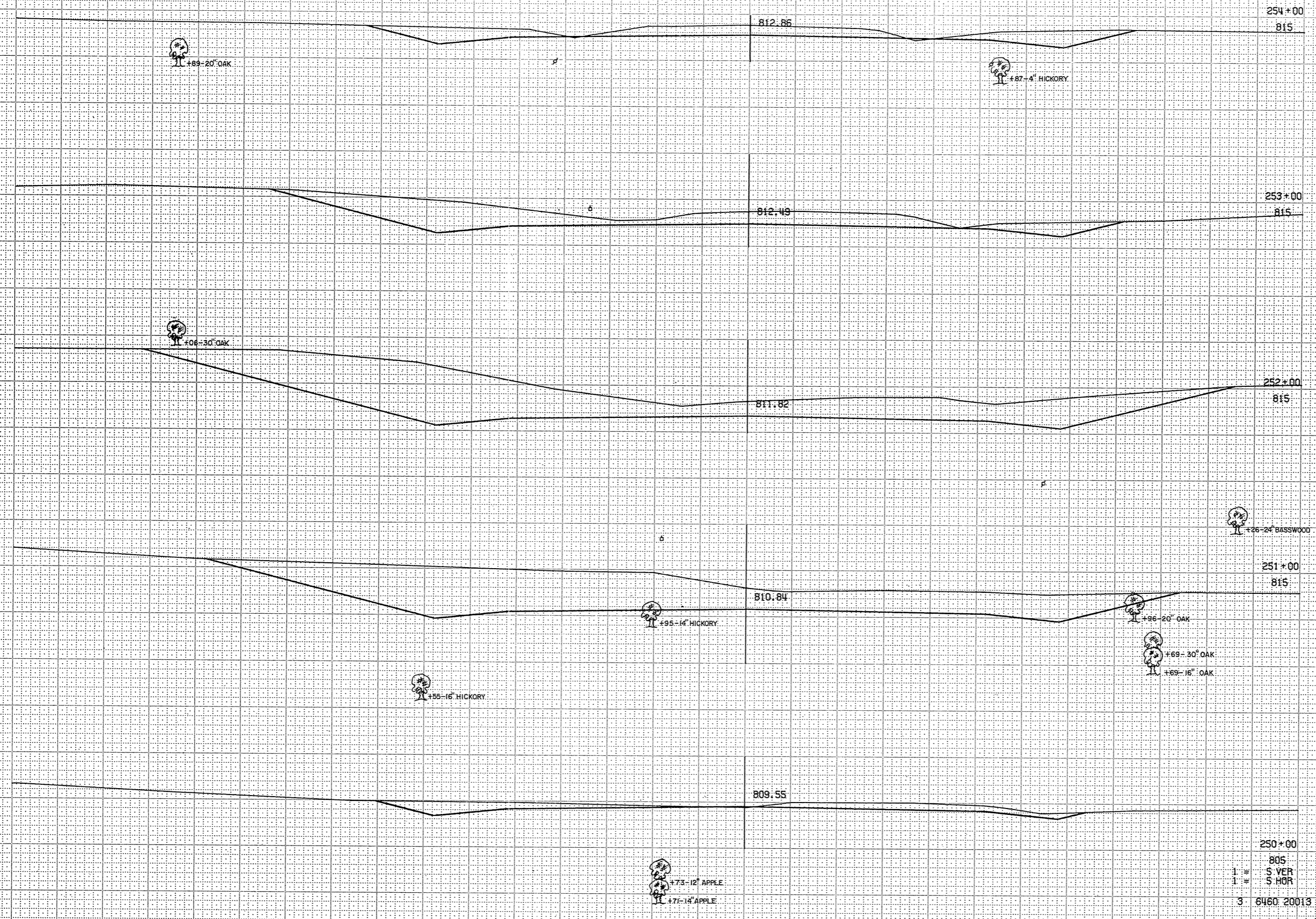
  

STATION	DISTANCE	TARDAGE		TOTAL
		EXCAVATION	FILL	
244		72		70
245		113		48
246		137		39
247		141		44
248		91		67
249				
TOTAL		554		268

1" = 5' VER  
1" = 5' HOR  
3 6460 20013



SURVEY  
T



REGION DIVISION	PROJECT	SHEET NUMBER	TOTAL SHEETS
WIS	S 1260 (4)	8.3	
STATION	DISTANCE	YARDAGE	
		EXCAVATION	FILL
		UNCL	
249			43
250		96	
251		652	
252		1,170	
253		828	
254		367	
TOTAL		3,113	43

+86-24" BASSWOOD

251+00  
815

+96-20" OAK

+69-30" OAK

+69-16" OAK

+95-16" HICKORY

+95-14" HICKORY

810.84

809.55

+73-12" APPLE

+71-14" APPLE

250+00  
805  
1" = S-VER  
1" = S-HOR  
3 6460 20013

SURVEY  
T

134-38 OAK

39-12 CHERRY

12-16 MAPLE



REGION DIVISION		PROJECT	SHEET NUMBER	TOTAL SHEETS
WIS		S 1260 (4)	84	
STATION	DISTANCE	YARDAGE		
		EXCAVATION		FILL
		UNCL		
254		165		59
255		56		189
256		52		317
257		26		374
258		20		295
259				
TOTAL		319		1235

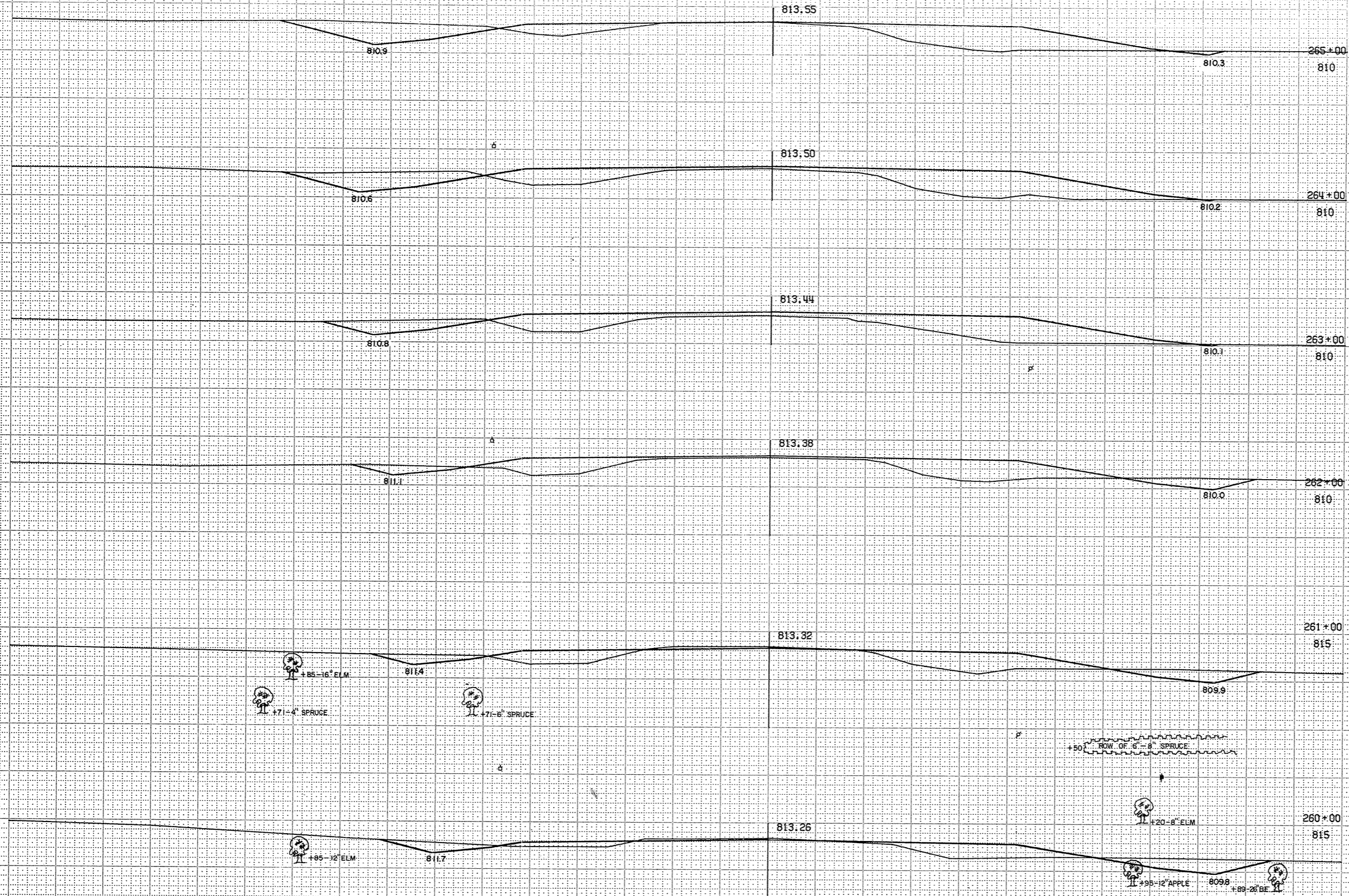
1" = 5' VERT  
1" = 50' HOR  
3 6460 20013

SURVEY  
T

25/6

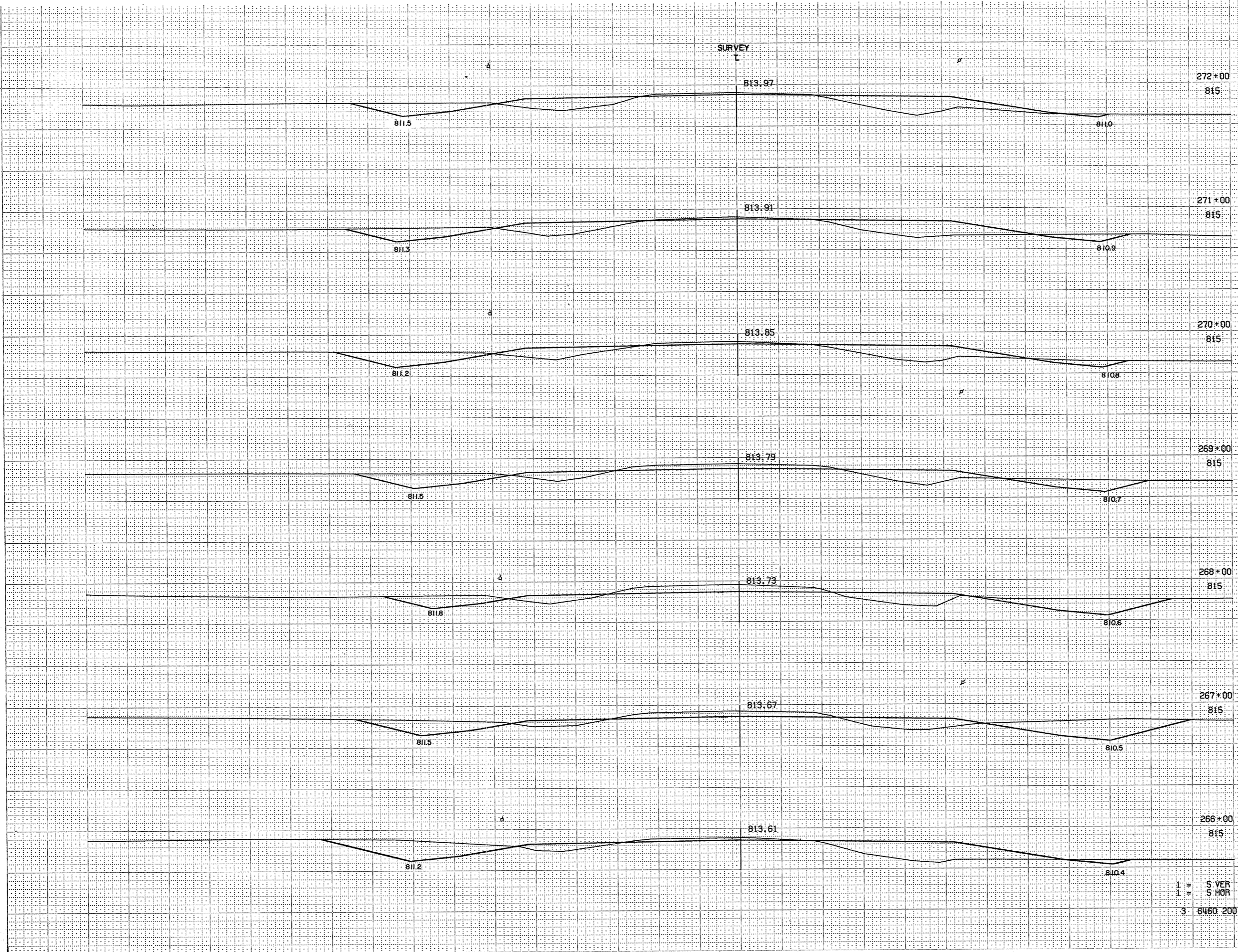
35

STATION	DISTANCE	YARDAGE		TOTAL SHEETS
		EXCAVATION		
		UNCL	FILL	
259		69		161
260		91		141
261		72		204
262		57		272
263		74		317
264		106		280
265				
TOTAL		469		1,375



1" = 5' VER  
1" = 5' HOR  
3 6460 20013

SURVEY



REGION DIVISION	PROJECT	SHEET NUMBER	TOTAL SHEETS
WIS	S 1260 (4)	86	

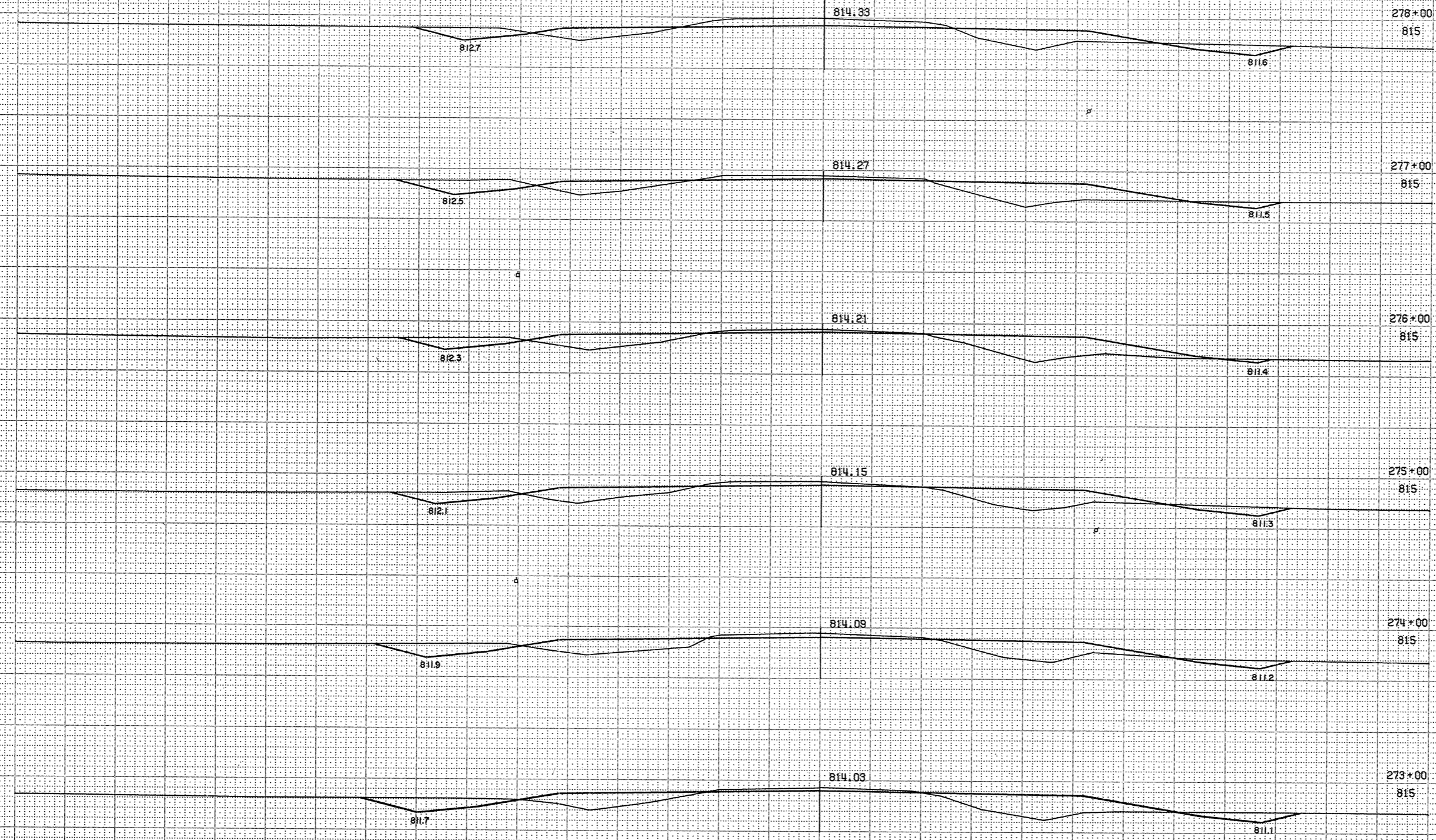
STATION	DISTANCE	YARDAGE	
		EXCAVATION	FILL
265		133	213
266		202	135
267		235	87
268		194	93
269		141	122
270		100	163
271		85	178
272			
TOTAL		1,090	991

1" = 5' VER  
 1" = 50' HOR  
 3 6460 20013

SURVEY  
T

27/6

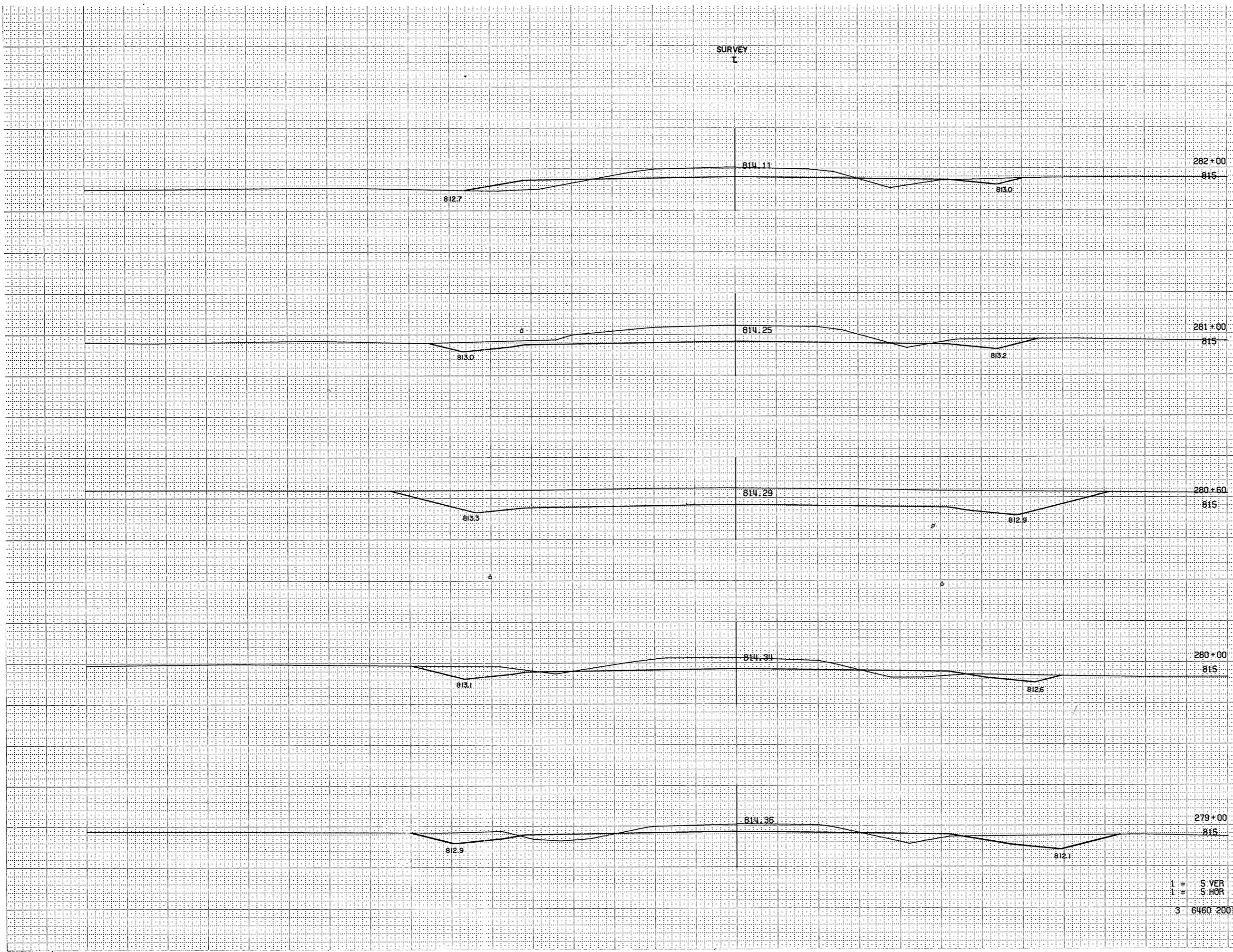
REGION DIVISION	PROJECT	SHEET NUMBER	TOTAL SHEETS
WIS	S 1260 (4)	8.7	
STATION	DISTANCE	YARDAGE	
		EXCAVATION	
		UNCL	FILL
272			
273	83		178
274	89		167
275	83		154
276	65		169
277	67		172
278	100		137
TOTAL		487	977



1" = 5' VER  
1" = 5' HOR  
3 6460 20013

SURVEY  
T

REGION DIVISION	PROJECT	SHEET NUMBER	TOTAL SHEETS
WIS	SI 260 (4)	88	
STATION	DISTANCE	YARDAGE	
		EXCAVATION	FILL
278		157	81
279		202	39
280		253	9
+60		189	1
281		213	33
282			
TOTAL		1,014	163



1" = 5' VER  
1" = 5' HOR  
3 8460 20013

SURVEY  
I

REGION DIVISION	PROJECT	SHEET NUMBER	TOTAL SHEETS
WIS	S 1260 (4)	89	
STATION	DISTANCE	YARDAGE	
		EXCAVATION	FILL
		UNCL	
282		106	89
283		133	96
284		217	57
285		333	33
286		494	20
287			
TOTAL		1,283	295

287+00  
815

811.2

813.27

811.9

286+00  
815

811.5

813.44

812.2

285+00  
815

811.8

813.61

812.5

284+00  
815

812.1

813.77

812.8

283+00  
815

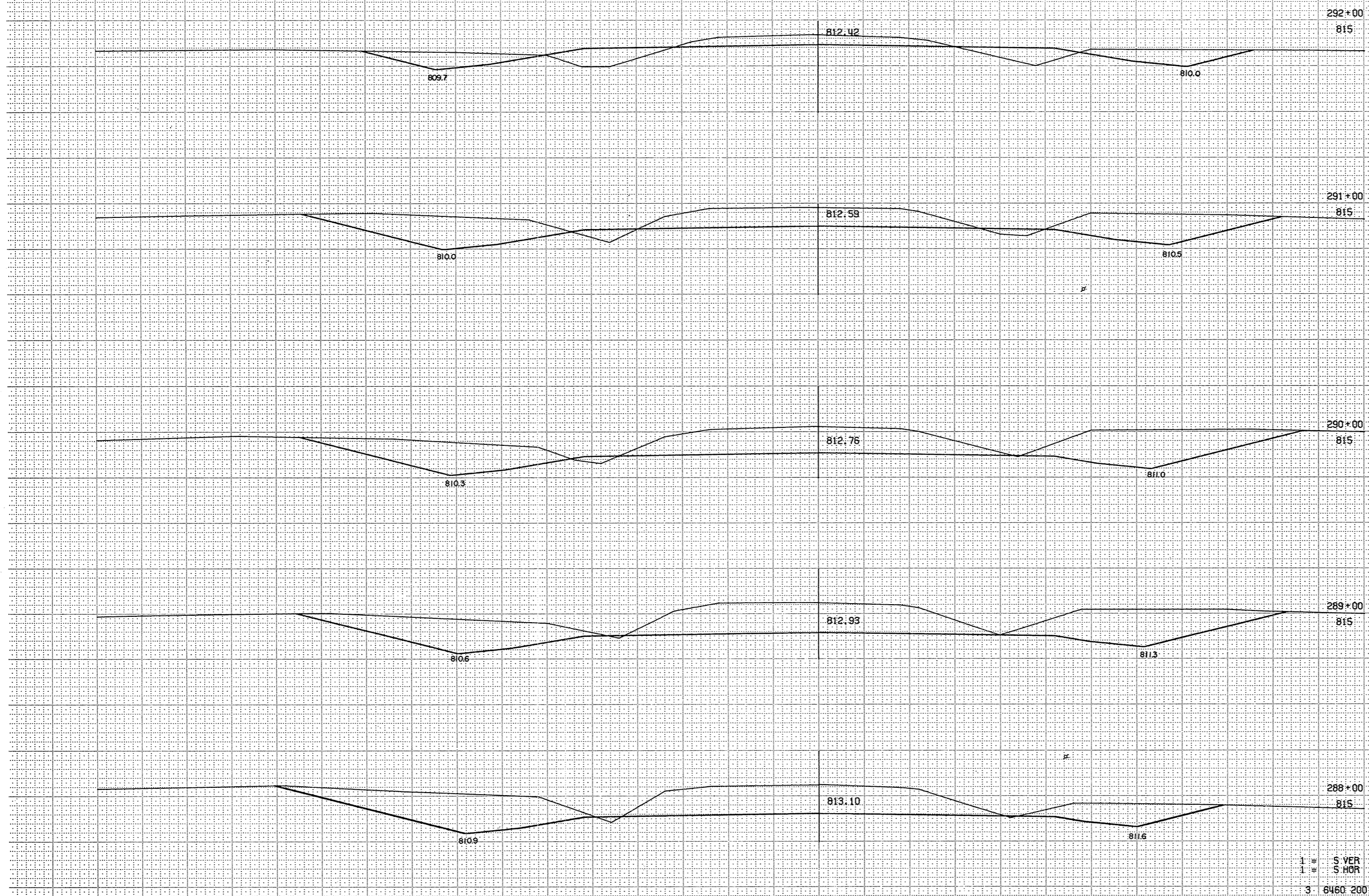
813.94

812.9

1" = 5' VER  
1" = 5' HOR  
3 6460 20013

SURVEY  
T

1.10



REGION DIVISION	PROJECT	SHEET NUMBER	TOTAL SHEETS
WIS	S 1260 (4)	810	

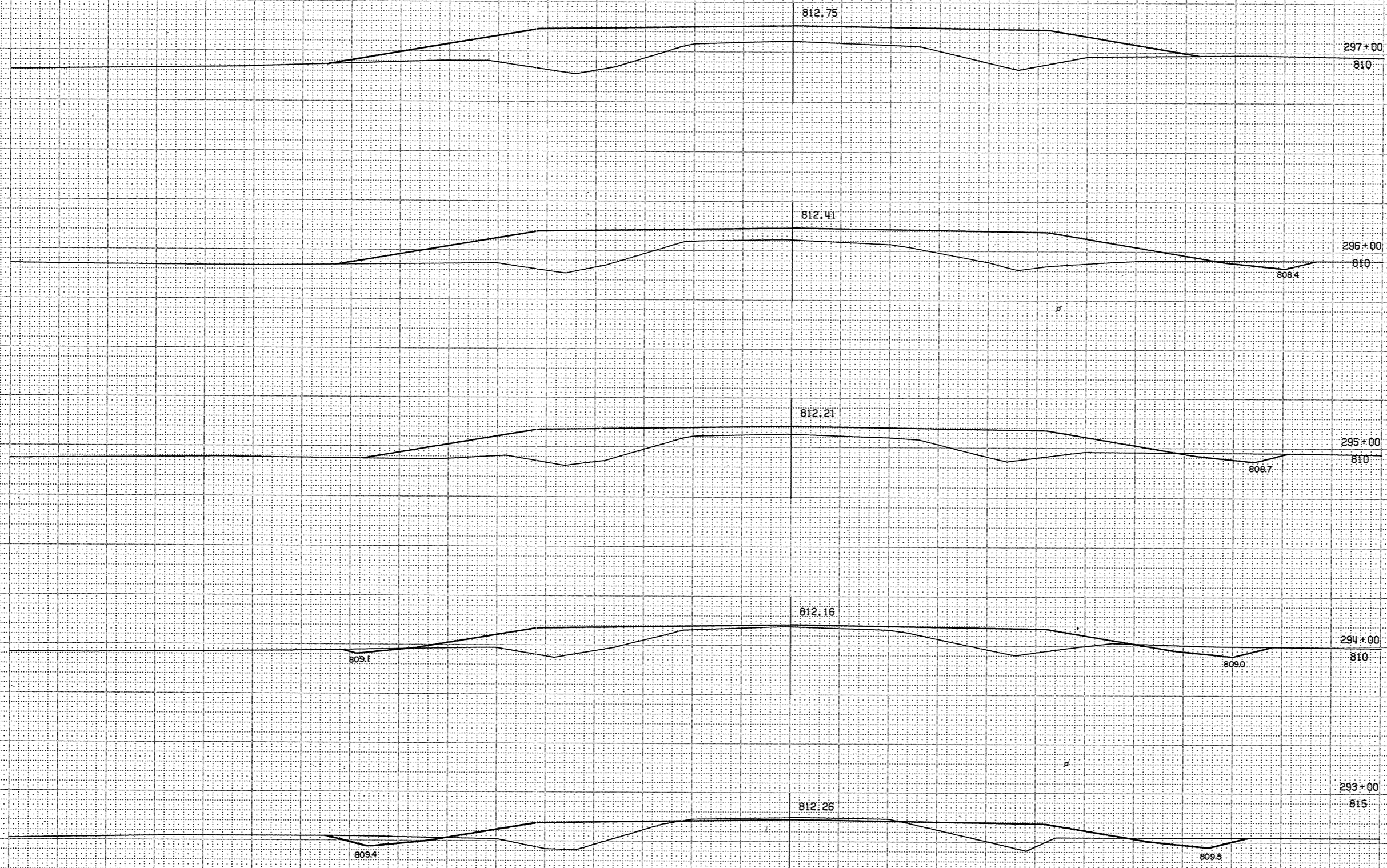
  

STATION	DISTANCE	YARDAGE	
		EXCAVATION	FILL
287		706	7
288		889	2
289		904	4
290		765	20
291		461	76
292			
TOTAL		3,725	109

1" = 5' VER  
 1" = 5' HOR  
 3 6460 20013



SURVEY  
T



REGION DIVISION	PROJECT	SHEET NUMBER	TOTAL SHEETS
WIS	S (260(4)	8.11	
STATION	DISTANCE	YARDAGE	
		EXCAVATION	
		UNCL.	FILL
292		159	174
293		52	272
294		30	406
295		19	580
296		7	685
297			
TOTAL		267	2,117

1" = 5' VER  
1" = 5' HOR  
3 6460 20013

SURVEY  
T

816.00 302+00  
815

815.29 301+00  
815

814.58 300+00  
810

813.87 299+00  
810

813.24 298+00  
810

REGION DIVISION	PROJECT	SHEET NUMBER	TOTAL SHEETS
WIS	S1260(4)	8.12	
STATION	DISTANCE	YARDAGE	
		EXCAVATION	FILL
		UNCL	
297			737
298			826
299			926
300			863
301	2		528
302			
TOTAL	2		3880

1" = 5' VER  
1" = 5' HOR  
3 6460 20013

SURVEY  
I

+26-14' ASH

+80-24' STUMP

+68-10' PLUM

REGION DIVISION	PROJECT	SHEET NUMBER	TOTAL SHEETS
WIS	S 1260 (4)	8.13	
STATION	DISTANCE	YARDAGE	
		EXCAVATION	FILL
		UNCL	
302		74	172
303		146	39
304		176	19
305		319	4
306		476	
307		711	
308			
TOTAL		1,902	234

817.90

308+00

820

818.22

307+00

820

818.24

306+00

820

817.97

305+00

820

817.42

304+00

820

816.71

303+00

820

- +27-4' ELM
- +16-4' PINE
- +81-15' WILLOW
- +101 SHRUB
- +97-3' JUNIPER
- +82-26' OAK
- +38-30' OAK
- +15 SHRUBS
- +17 SHRUB
- +39 SHRUB
- +104-5' ELM
- ROW OF SHRUBS

1" = 5' VER  
1" = 5' HOR  
3 8460 20013

SURVEY  
T

3/6

STATION	DISTANCE	YARDAGE	
		EXCAVATION	FILL
308	787		
309	463		
310	143		56
311	22		156
312	43		152
313			
TOTAL		1,458	364

REGION DIVISION	PROJECT	SHEET NUMBER	TOTAL SHEETS
WIS	S 1260 (4)	8.14	

812.04

313+00  
815

813.68

312+00  
810

815.17

311+00  
820

816.38

310+00  
820

817.28

309+00  
820

1" = 5' VER  
1" = 5' HOR  
3 6460 20013

SURVEY  
I

35/66

REGION DIVISION	PROJECT	SHEET NUMBER	TOTAL SHEETS
WIS	S 1260 (4)	8/5	
STATION	DISTANCE	YARDAGE	
		EXCAVATION	FILL
		UNCL	
313		144	65
314		246	19
315		246	17
316		243	22
317		256	24
318			
TOTAL		1,335	147

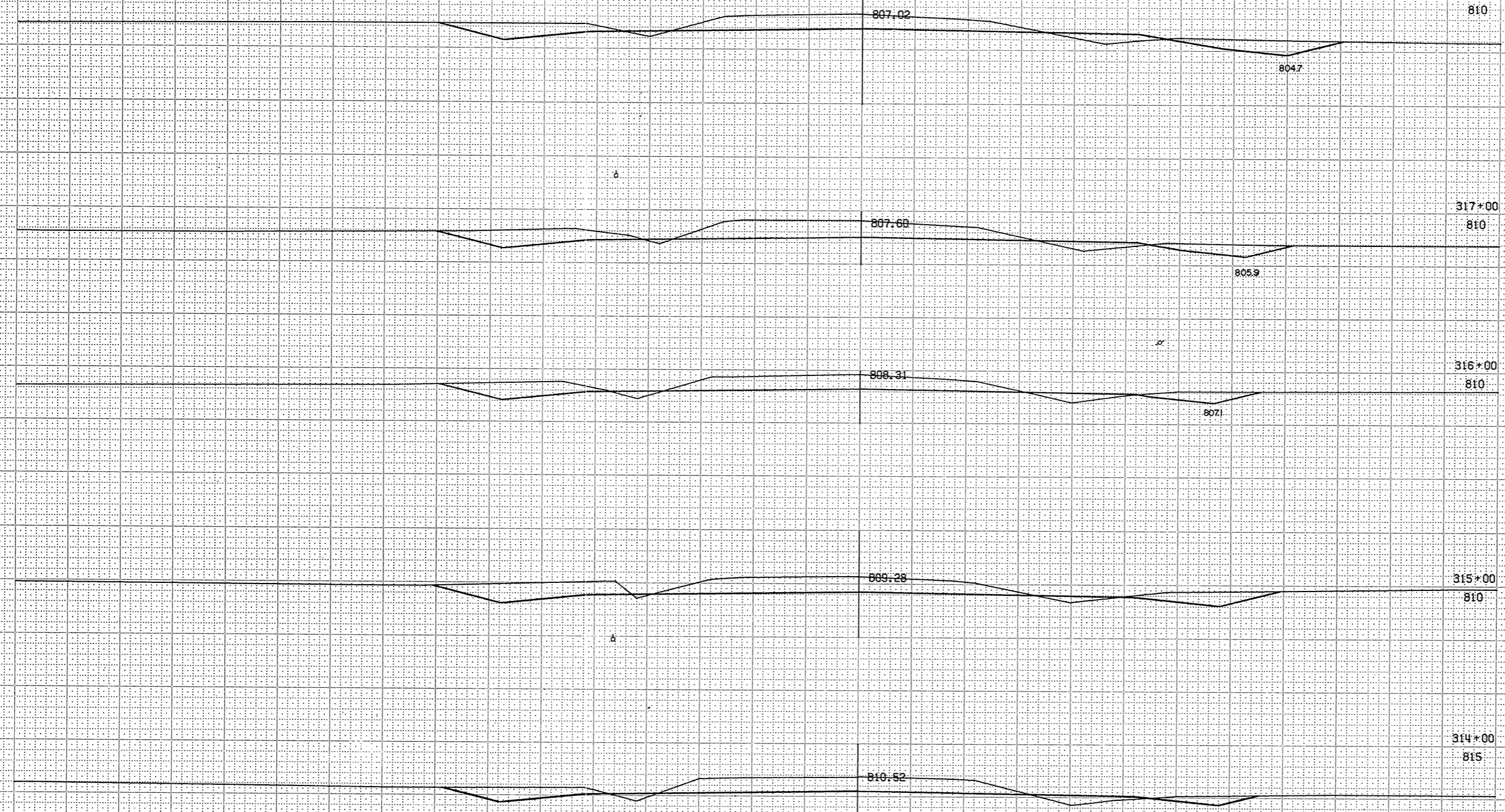
318+00  
810

317+00  
810

316+00  
810

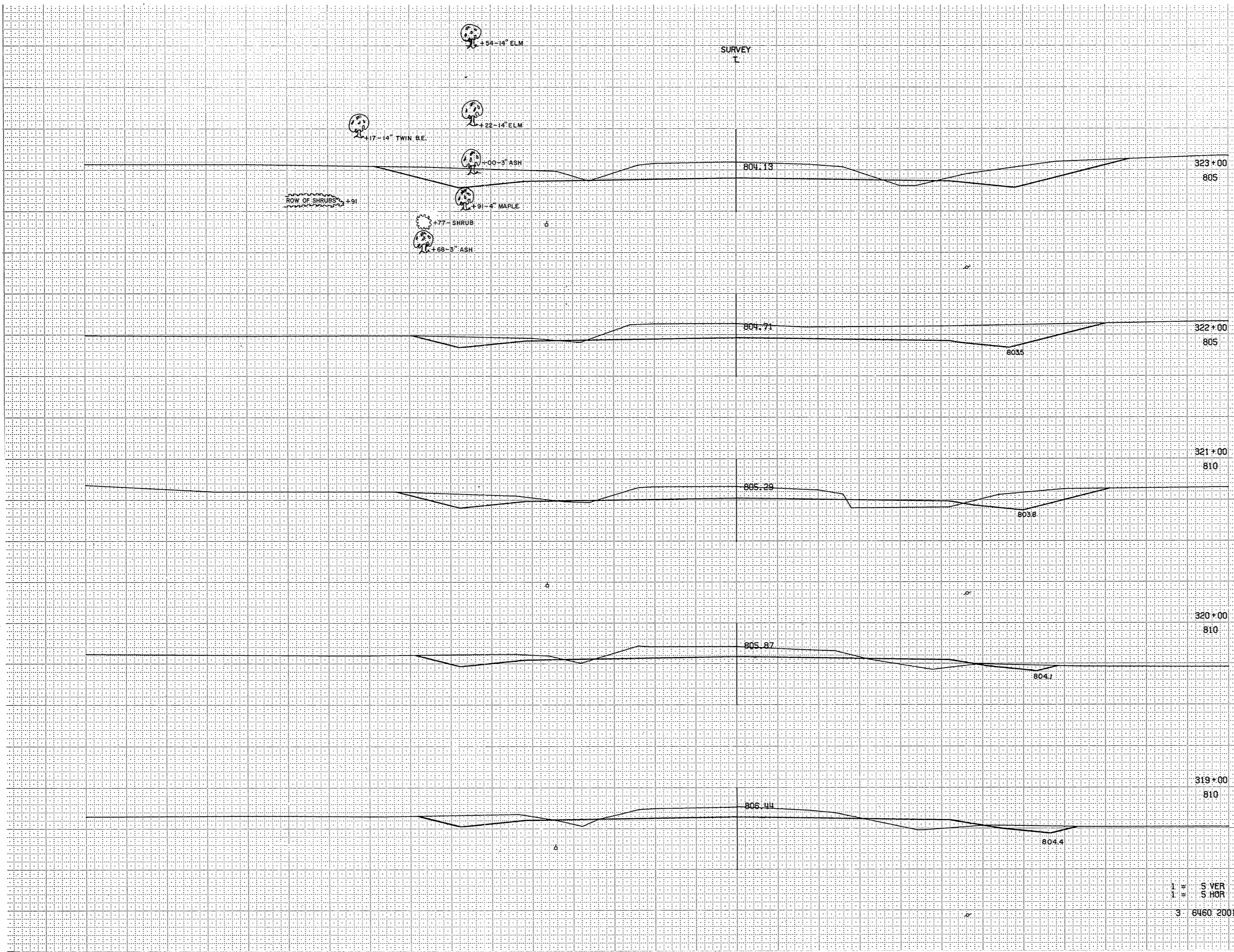
315+00  
810

314+00  
815



1" = 5' VER  
1" = 5' HOR  
3 8460 20013

SURVEY  
T



REGION DIVISION		PROJECT	SHEET NUMBER	TOTAL SHEETS
WIS		S 1260 (4)	8.16	
STATION	DISTANCE	YARDAGE		
		EXCAVATION		FILL
		UNCL		
318		213		37
319		189		43
320		239		41
321		350		22
322		433		6
323				
TOTAL		1,424		149

1" = 5' VER  
1" = 5' HOR  
3 6460 20013

SURVEY  
T

328+00  
805

GROVE OF 4-6" SPRUCE 799.4  
+00  
+75

801.37

798.9

327+00  
805

801.84

799.7

799.9

326+00  
805

802.40

800.0

800.9

325+00  
805

802.98

18-4" POPLAR

324+00  
805

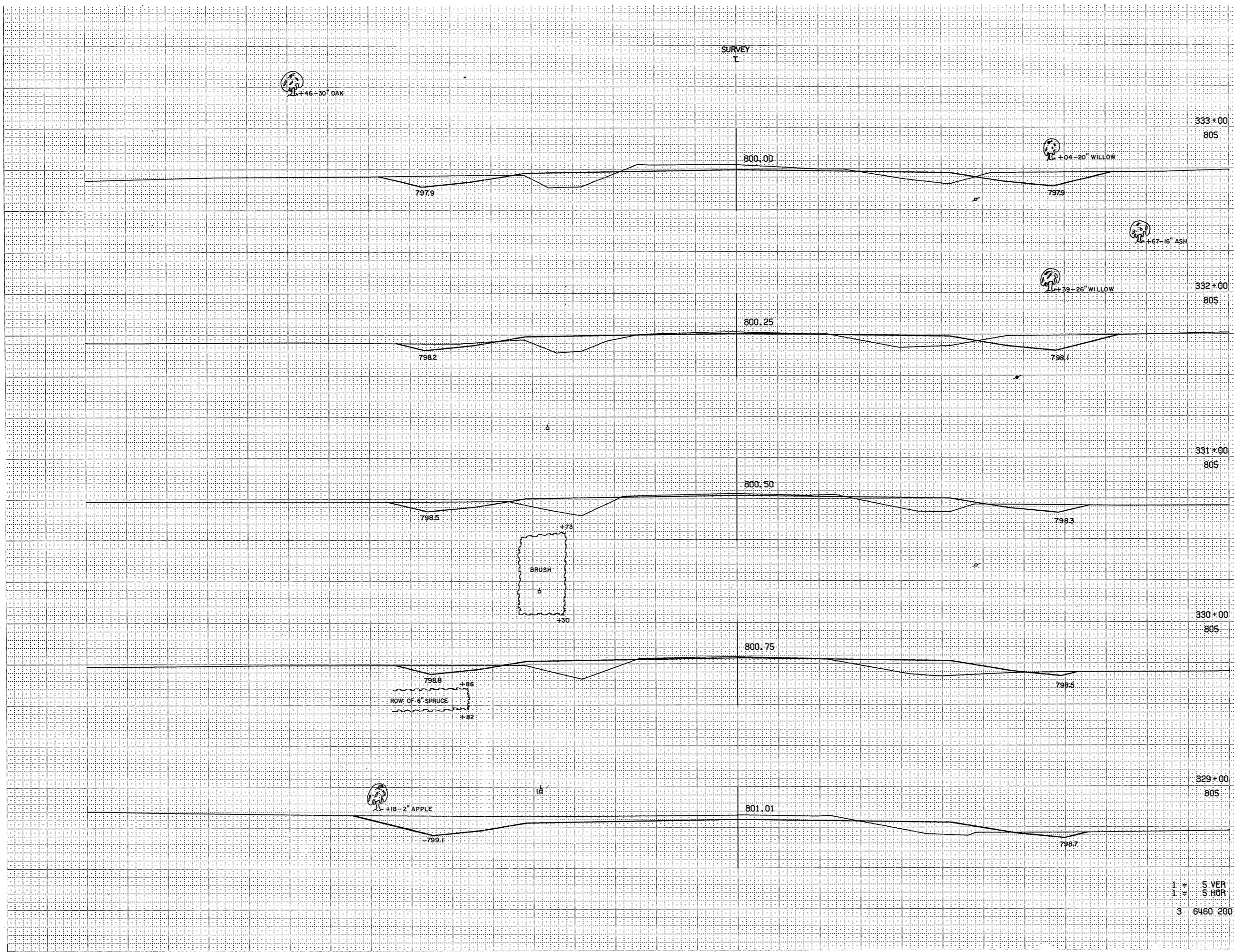
803.56

18-16" ELM

1 = S VER  
1 = S HOR  
3 6460 20013

REGION	PROJECT	SHEET NUMBER	TOTAL SHEETS
WIS	S 1260 (4)	8.17	
STATION	DISTANCE	YARDAGE	
		EXCAVATION	FILL
		UNCL	
323		456	15
324		315	31
326		181	56
326		191	70
327		170	81
328			
TOTAL		1,313	253

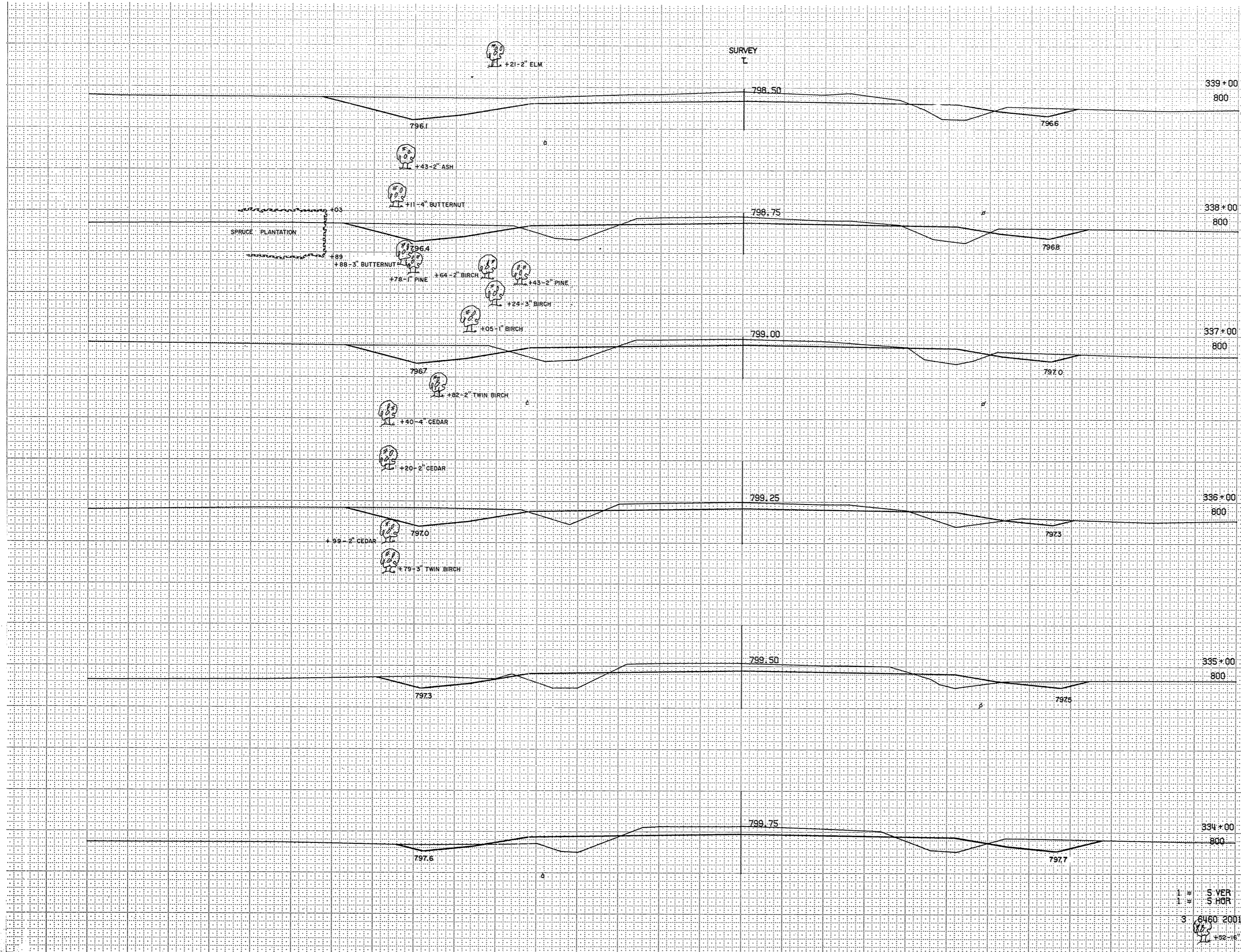
SURVEY  
T



STATION	DISTANCE	YARDAGE		TOTAL SHEETS
		EXCAVATION		
		UNCL	FILL	
328		185		74
329		130		109
330		63		143
331		89		124
332		130		109
333				
TOTAL		597		559

1" = 5' VER  
1" = 5' HOR  
3 6460 20013



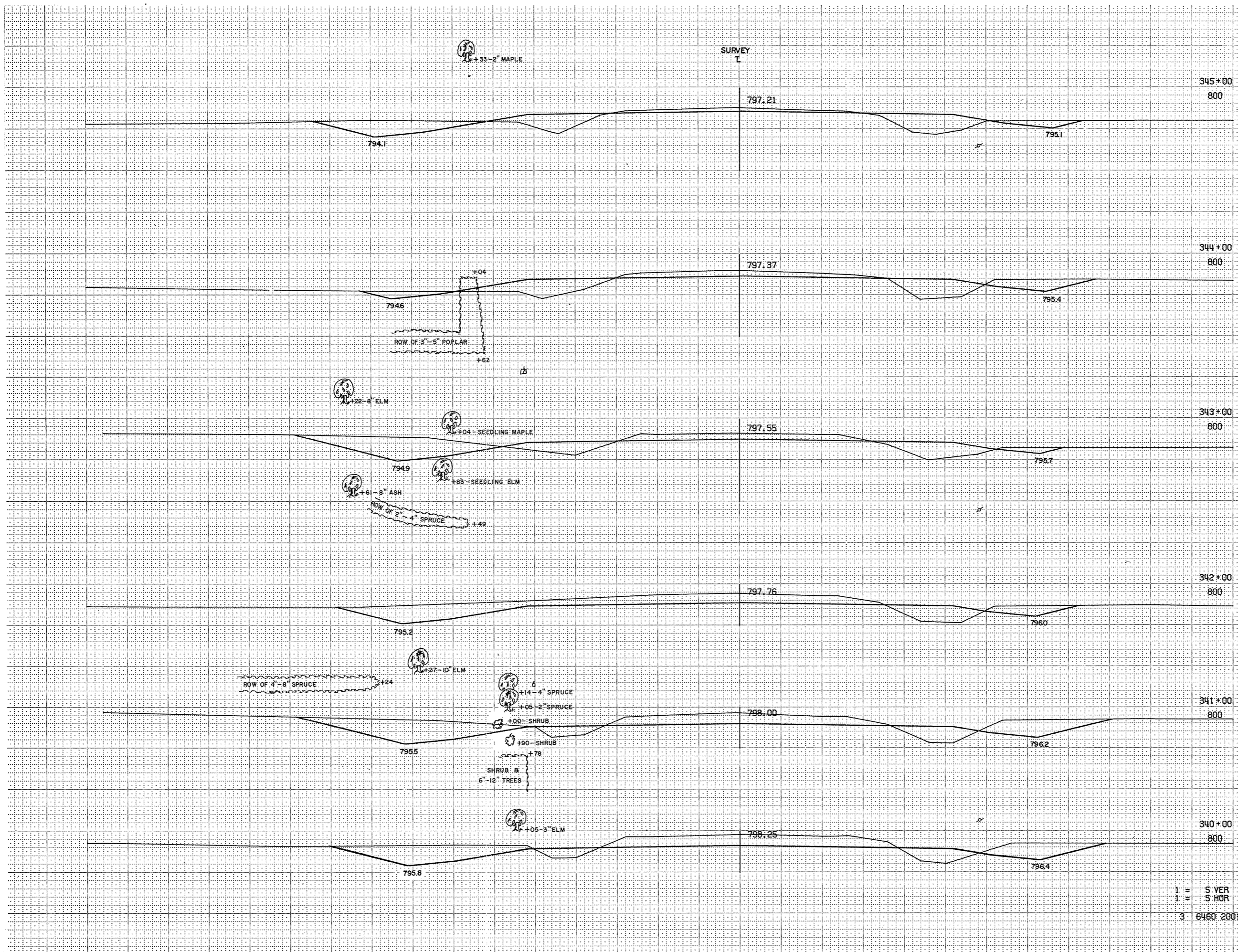


REGION DIVISION	PROJECT	SHEET NUMBER	TOTAL SHEETS
WIS	S 1260(4)	819	

STATION	DISTANCE	YARDAGE	
		EXCAVATION	FILL
333		167	100
334		174	93
335		193	74
336		200	81
337		198	96
338		269	69
339			
TOTAL		1,201	513

1" = 5' VER  
 1" = 5' HOR  
 3. 8460 20013  
 11. +52-16" TWIN ASH

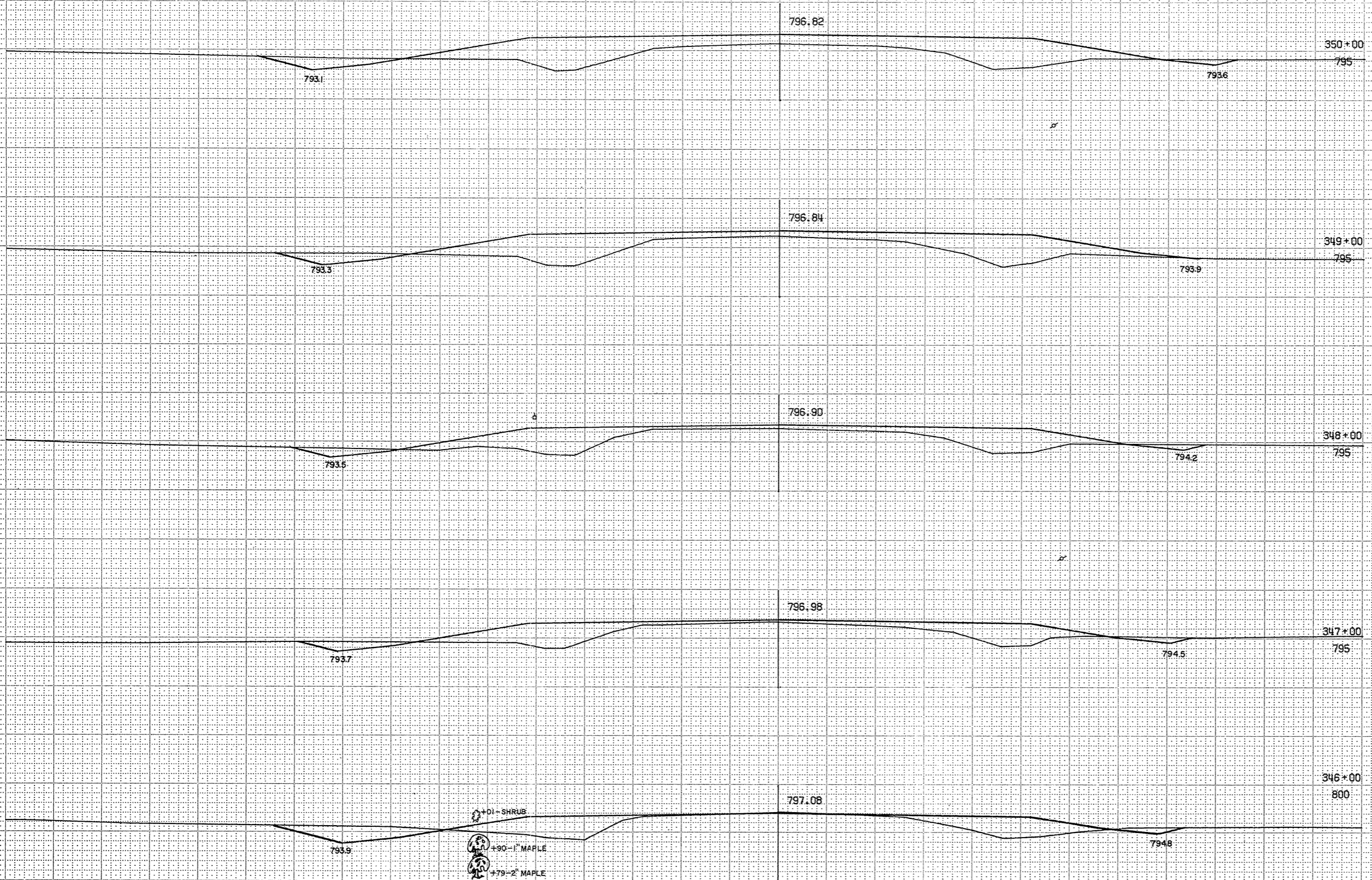


STATION	DISTANCE	YARDAGE		TOTAL SHEETS
		EXCAVATION		
		UNCL	FILL	
339				
340	348			52
341	374			70
342	344			70
343	270			89
344	185			133
345	137			144
346				
TOTAL	1,658			558

1" = 5' VER  
 1" = 5' HOR  
 3 6460 20013

SURVEY  
T

9/66



STATION	DISTANCE	YARDAGE		TOTAL SHEETS
		UNCL	FILL	
345				
346				
347				
348				
349				
350				
TOTAL		272		1,429

1" = S. VER.  
1" = S. HOR.  
3 6460 20013

SURVEY  
T

⊕ +47-28' ELM

355+00  
800

797.09

7960

REGION DIVISION	PROJECT	SHEET NUMBER	TOTAL SHEETS
WIS	S 1260 (4)	822	

STATION	DISTANCE	YARDAGE	
		EXCAVATION	FILL
		UNCL	
350			
351		72	422
352		89	315
353		78	220
354		80	187
355		78	174
TOTAL		397	1,318

354+00  
800

796.98

794.5

⊕ +95-18' OAK

+74-SHRUB

⊕ +62-26' OAK

353+00  
800

796.90

794.0

795.3

352+00  
795

796.85

793.5

794.3

351+00  
795

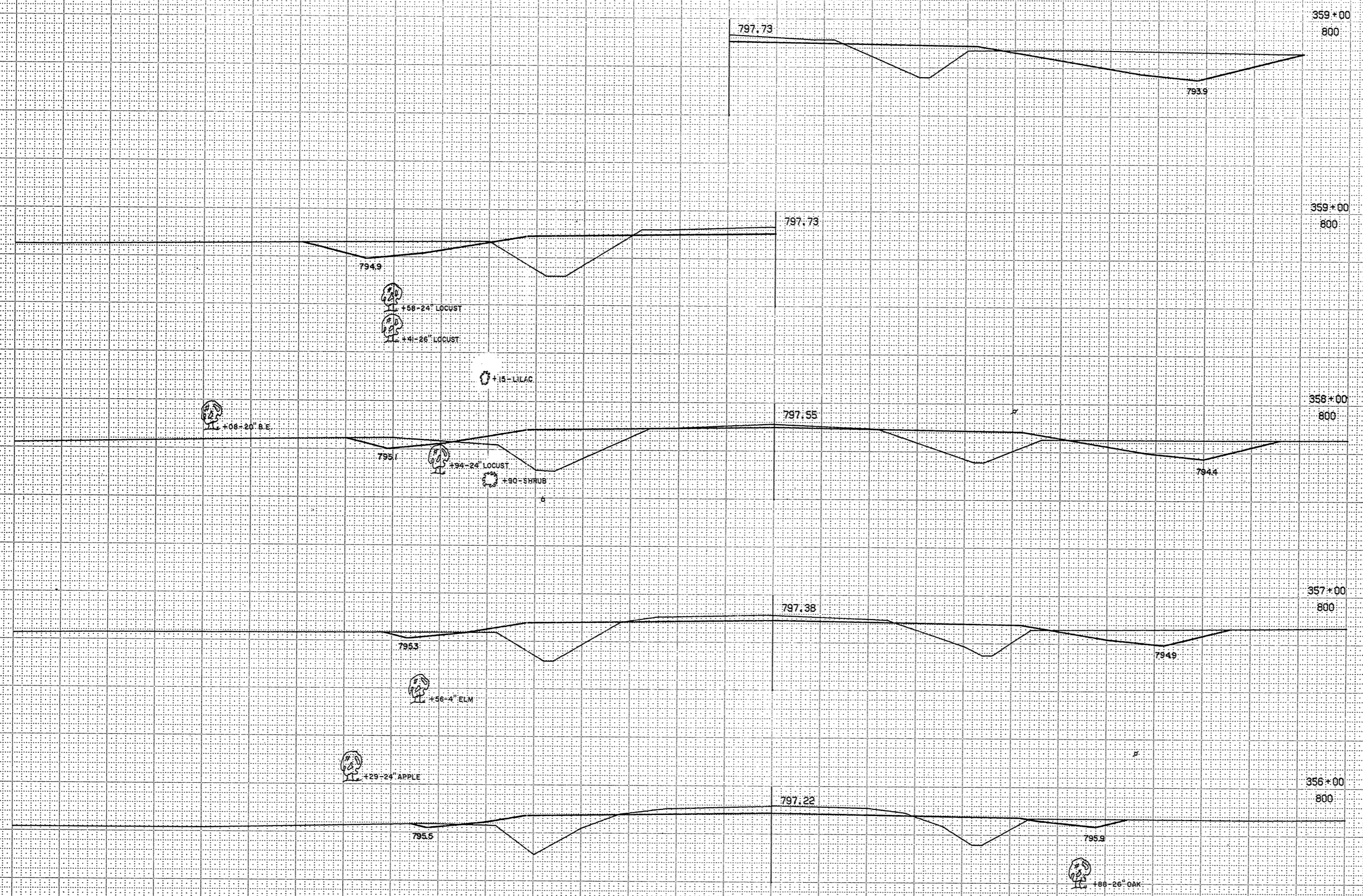
796.82

793.0

795.3

1" = 3' VER  
1" = 5' HOR  
3 6460 20013

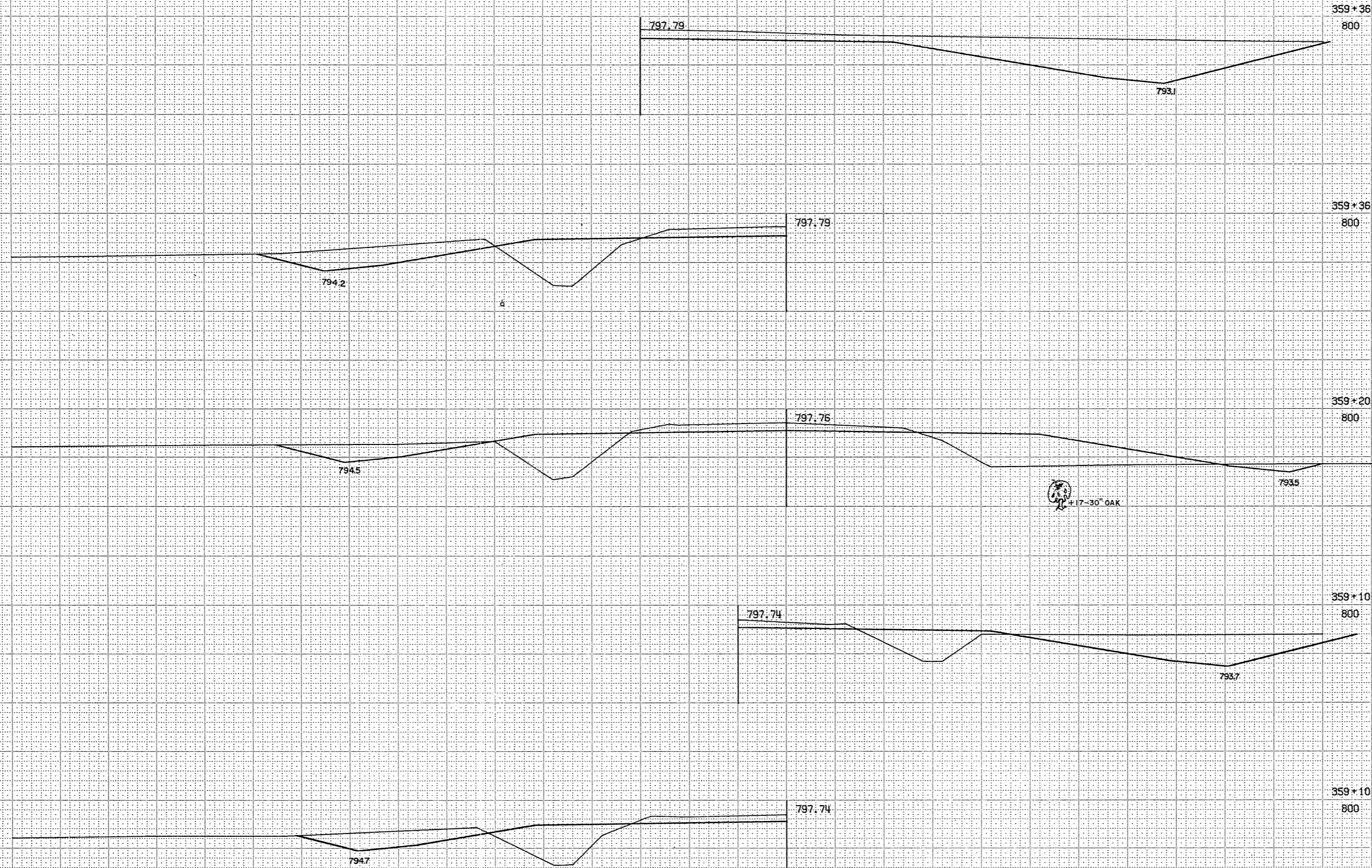
SURVEY  
L



REGION DIVISION	PROJECT	SHEET NUMBER	TOTAL SHEETS
WIS	S 1260(4)	8.23	
STATION	DISTANCE	YARDAGE	
		EXCAVATION	FILL
		UNCL	
355	80		172
356	102		187
357	120		244
358	217		256
359			
TOTAL		519	859

1 = S VER  
1 = S HOR  
3 6460 20013

SURVEY  
T



REGION DIVISION		PROJECT	SHEET NUMBER	TOTAL SHEETS
WIS		S 1260 (4)	824	
STATION	DISTANCE	YARDAGE		
		EXCAVATION		FILL
		UNCL		
359		34		22
+10		27		28
+20		67		39
+36				
TOTAL		128		89

1 = S VER  
1 = S HOR  
3 6460 20013

SURVEY  
T

+37'-18" MAPLE

+17'-26" WILLOW

45/62

325

360+00

800

797.90

794.0

359+94

800

797.89

793.9

+96

+86

DENSE SHRUBERY

+90-26" STUMP

REGION DIVISION		PROJECT	SHEET NUMBER	TOTAL SHEETS
WIS		S 1260 (4)	8.25	
STATION	DISTANCE	YARDAGE		
		EXCAVATION		FILL
UNCL				
359+36		196		38
+61		77		161
+78		22		143
+94		16		5
360				
TOTAL		311		347

359+78

795

797.85

359+61

800

797.83

792.7

359+61

800

797.83

793.7

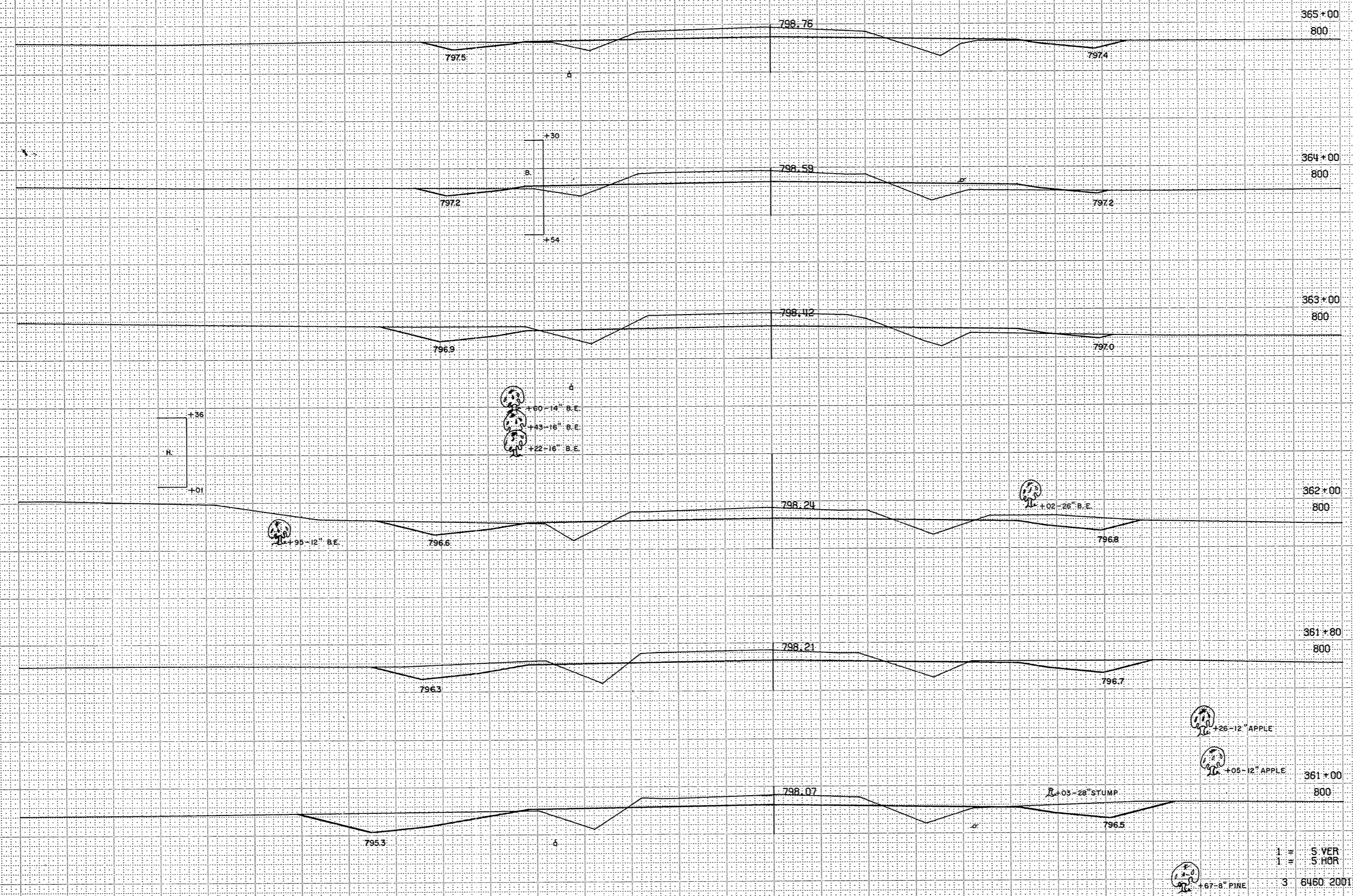
1" = 5' VERT  
1" = 5' HOR  
3 6460 20013

SURVEY  
T

REGION DIVISION	PROJECT	SHEET NUMBER	TOTAL SHEETS
WIS	S 1260 (4)	826	

STATION	DISTANCE	YARDAGE	
		EXCAVATION	FILL
360			
361	254		93
+80	175		52
362	39		11
363	191		61
364	154		70
365	122		58
TOTAL		935	346

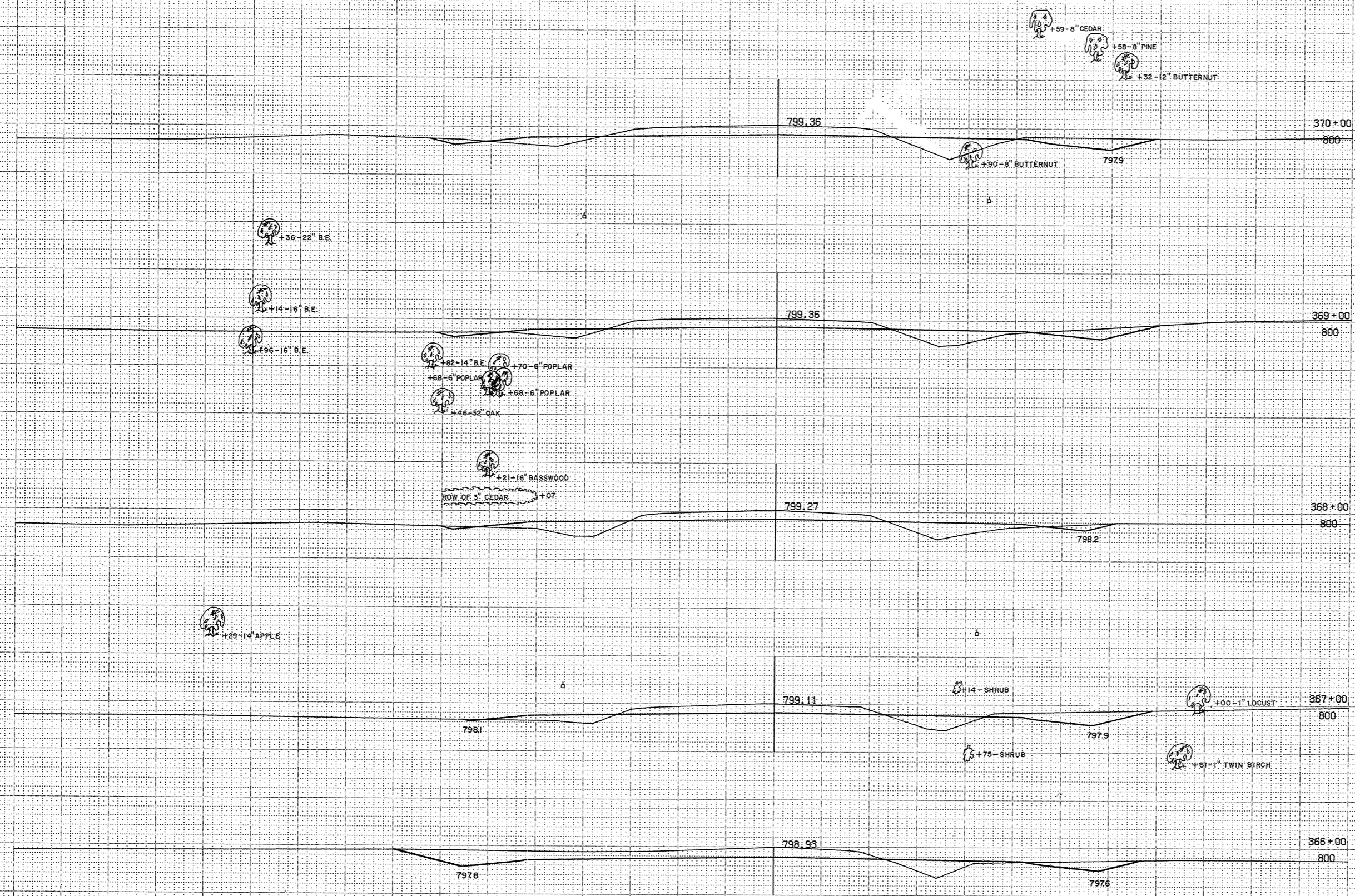


1 = S VER  
1 = S HOR  
3 6460 20013

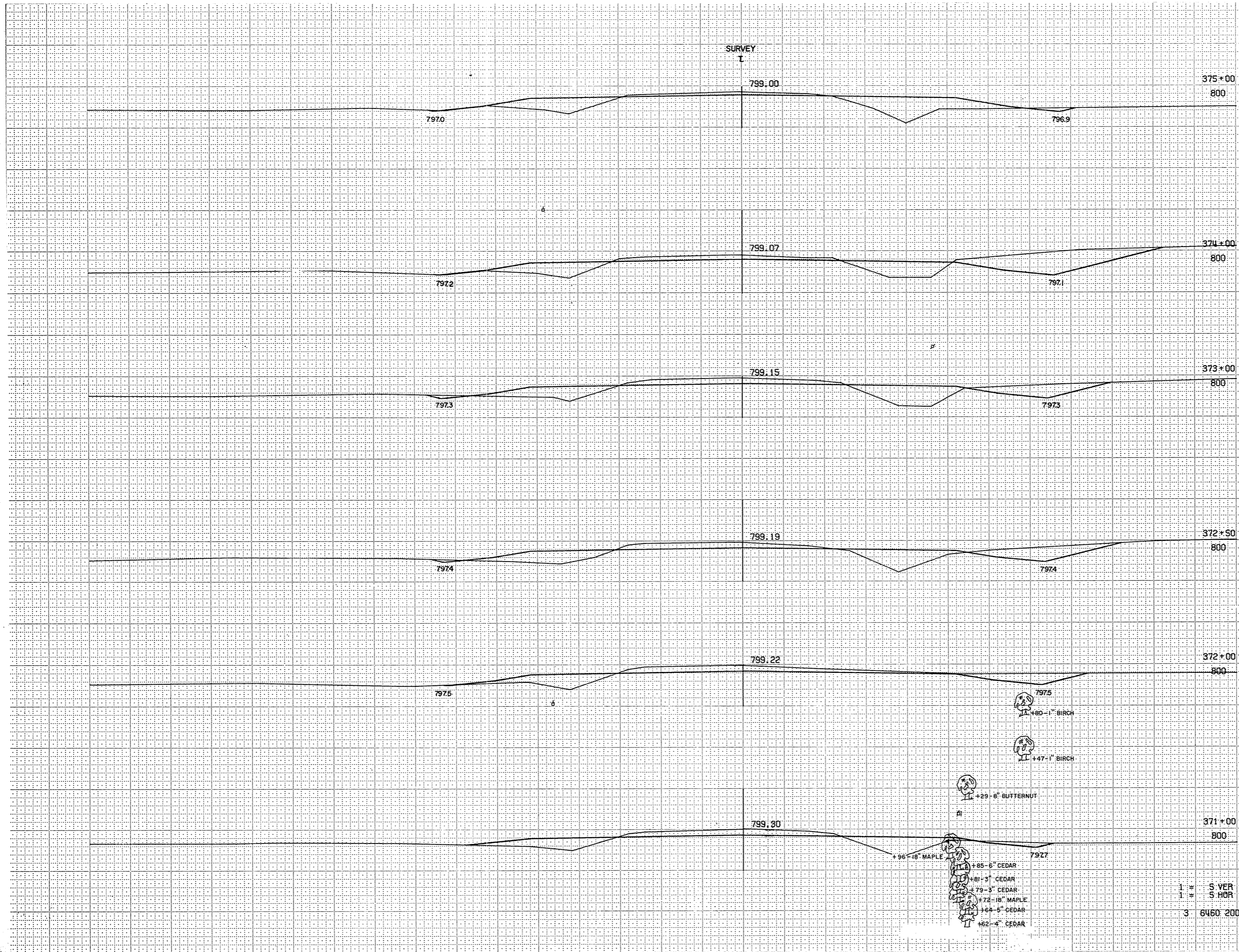


SURVEY  
T

REGION DIVISION	PROJECT	SHEET NUMBER	TOTAL SHEETS
WIS	S 1260 (4)	B.27	
STATION	DISTANCE	YARDAGE	
		EXCAVATION	FILL
		UNCL	
365		157	43
366		161	48
367		106	80
368		104	83
369		148	57
370			
TOTAL		676	321



1" = 5' VER  
 1" = 5' HOR  
 3 8460 20013



REGION DIVISION	PROJECT	SHEET NUMBER	TOTAL SHEETS
WIS	S 1260 (4)	8.28	

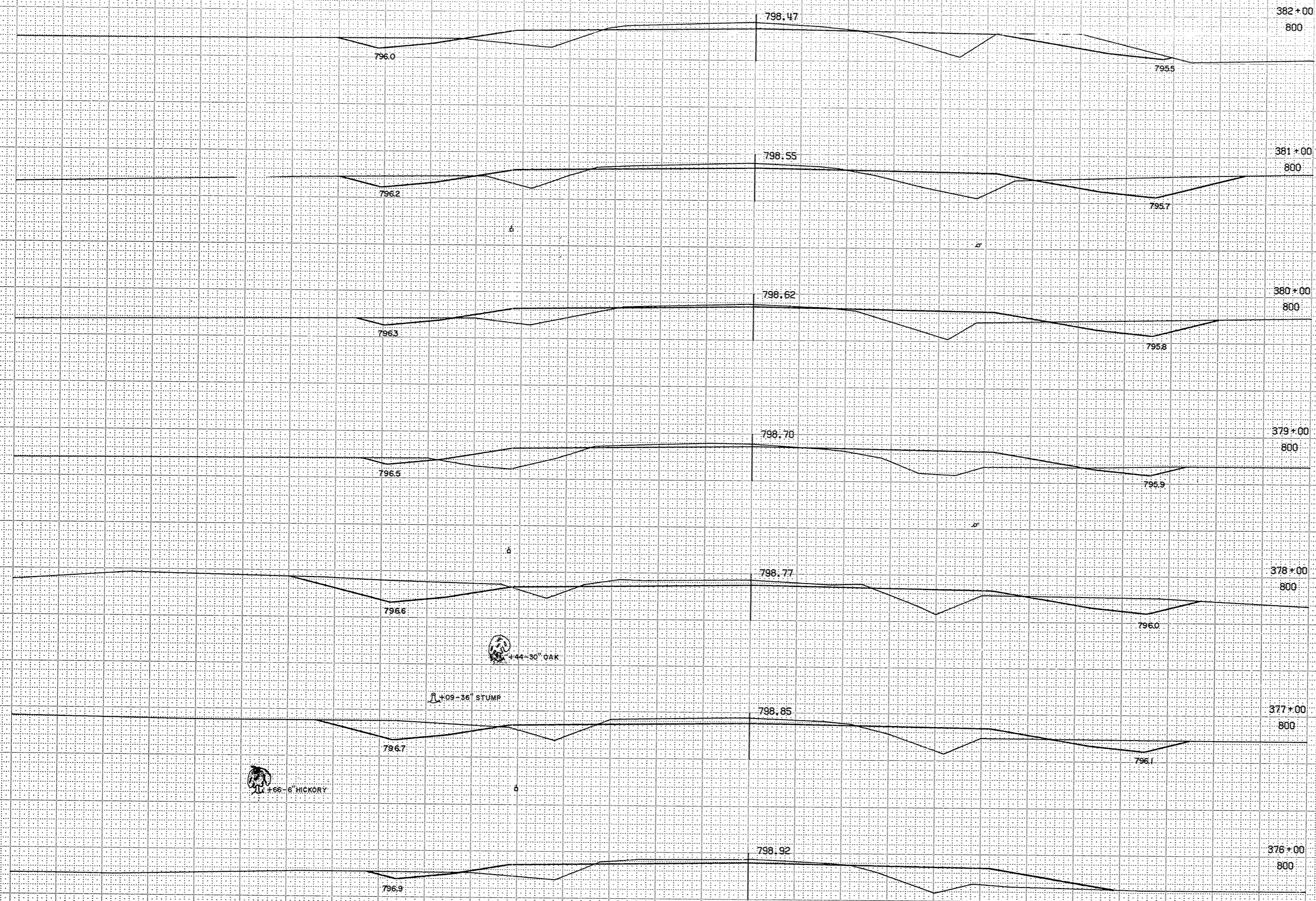
STATION	DISTANCE	YARDAGE	
		EXCAVATION	FILL
370			
371	122		94
372	93		91
+50	59		49
373	60		70
374	152		135
375	107		150
TOTAL		593	589

- 797.5
- +80-1" BIRCH
- +47-1" BIRCH
- +29-8" BUTTERNUT
- +96-18" MAPLE
- +85-6" CEDAR
- +81-3" CEDAR
- +79-3" CEDAR
- +72-18" MAPLE
- +64-5" CEDAR
- +62-4" CEDAR

1 = S VER  
1 = S HOR  
3 8460 20013

19/66

SURVEY  
T

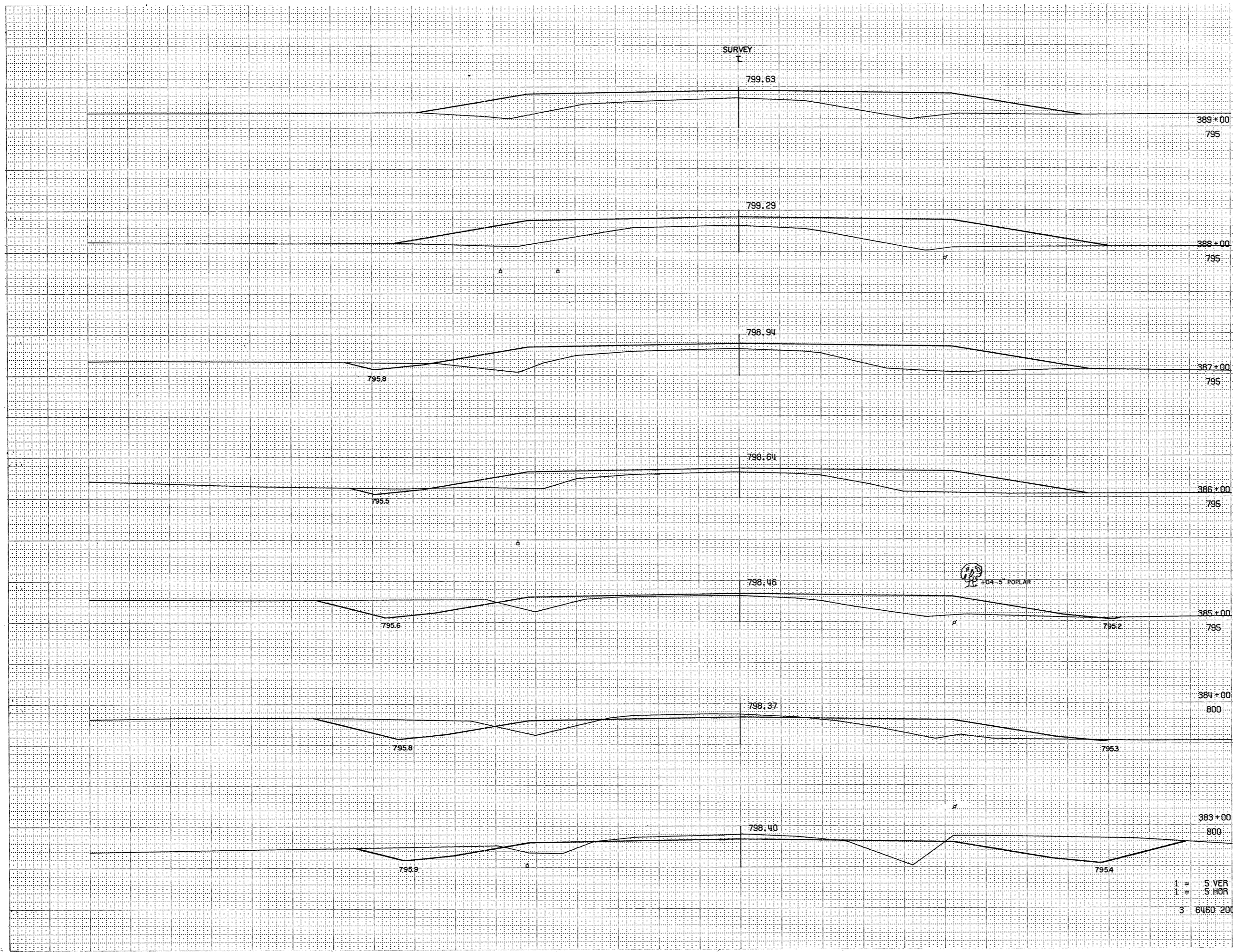


REGION DIVISION	PROJECT	SHEET NUMBER	TOTAL SHEETS
WIS	S 1260 (4)	829	
STATION	DISTANCE	YARDAGE	
		EXCAVATION	FILL
	UNCL		
375			
376	39		181
377	109		156
378	204		104
379	144		146
380	70		187
381	128		154
382	157		131
TOTAL	851		1059

1 = 5' VER  
1 = 5' HOR  
3 6460 20013

50/60

8.30

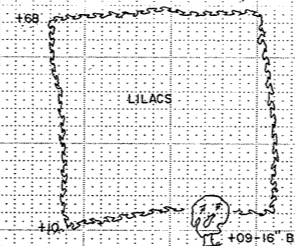


REGION DIVISION		PROJECT	SHEET NUMBER	TOTAL SHEETS
WIS		S 1260(4)	630	
STATION	DISTANCE	YARDAGE		
		EXCAVATION		FILL
		UNCL		
382		230	113	
383		230	141	
384		126	211	
385		59	295	
386		17	387	
387		9	502	
388			519	
389				
TOTAL		671	2,166	

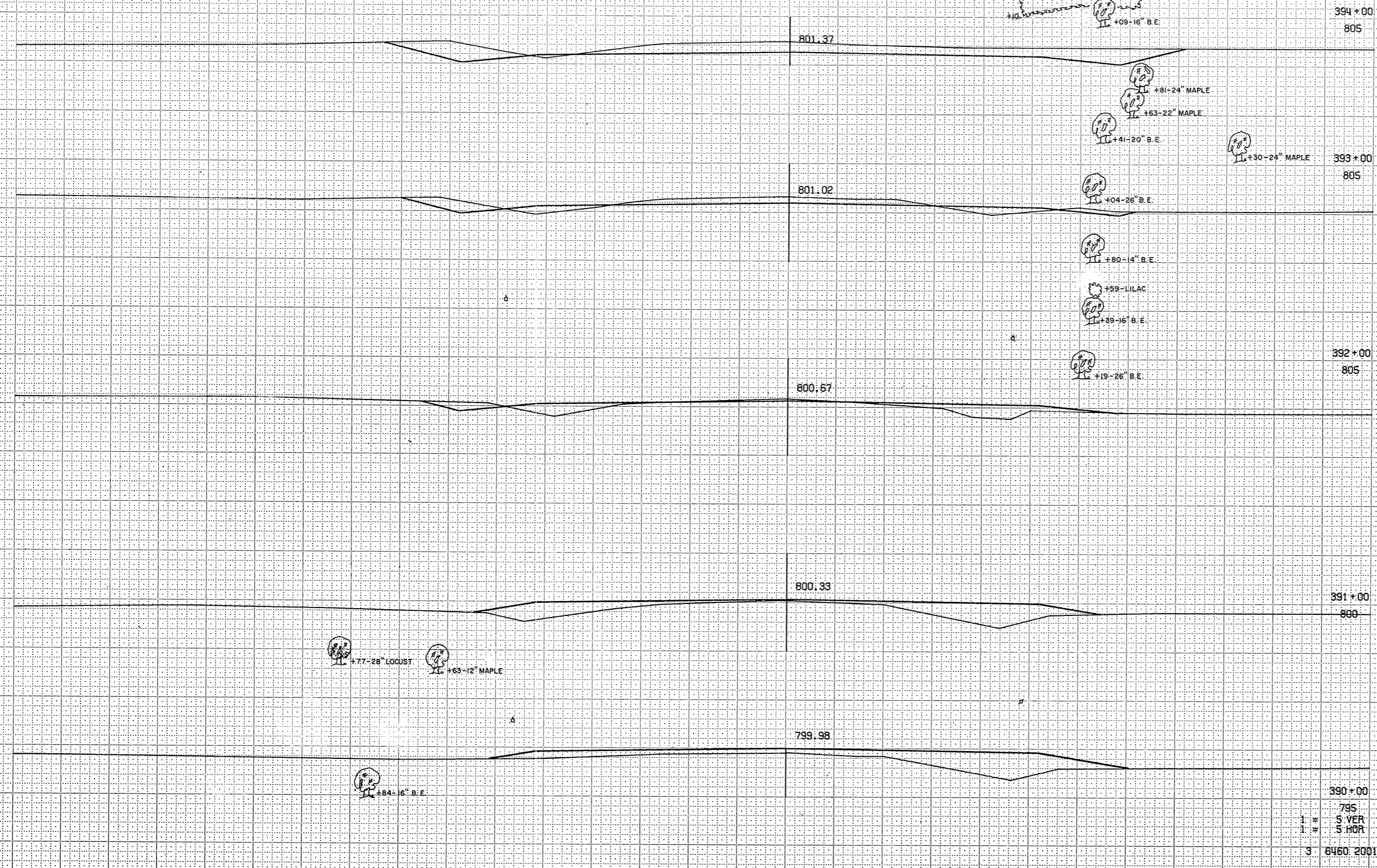
1" = 5' VER  
 1" = 5' HOR  
 3 8460 20013

SURVEY  
I

4/6

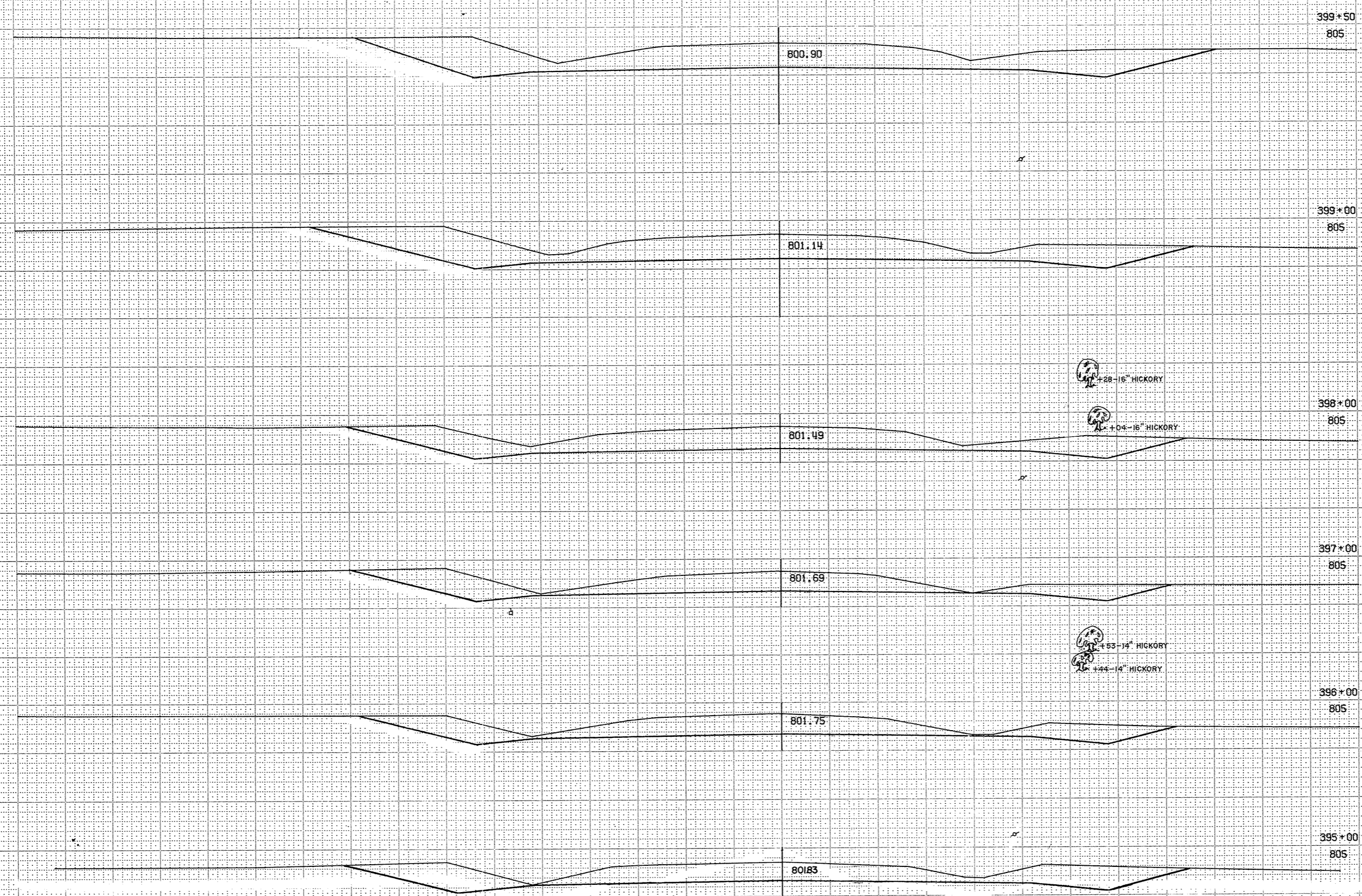


REGION	PROJECT	SHEET	TOTAL
WIS	S. 1260 (4)	8.31	
STATION	DISTANCE	YARDAGE	
		EXCAVATION	FILL
		UNCL	
389			343
390			209
391	13		144
392	63		65
393	181		22
394			
TOTAL		257	783



390+00  
795  
5 VER  
5 HOR  
3 8460 20013

SURVEY



REGION DIVISION	PROJECT	SHEET NUMBER	TOTAL SHEETS
WIS	S 1260 (4)	2.32	

STATION	DISTANCE	YARDAGE	
		EXCAVATION	FILL
394			
395	408		2
396	512		
397	467		
398	517		
399	641		
+50	367		
TOTAL		2,912	2

1 = S VER  
 1 = S HOR  
 3 - 8460 20013

SURVEY  
T

+81-26 OAK

799.54

401+50

800

+38-10 HICKORY

+01-12 HICKORY

+95-8 OAK

+90-TWIN 6 OAK

799.94

401+00

800

+39 ROW OF 1'-3" SPRUCE

+43-TRIPLE 8 OAK

+42-8 OAK

800.30

400+50

805

+19-22 OAK

800.56

400+10

805

400+00

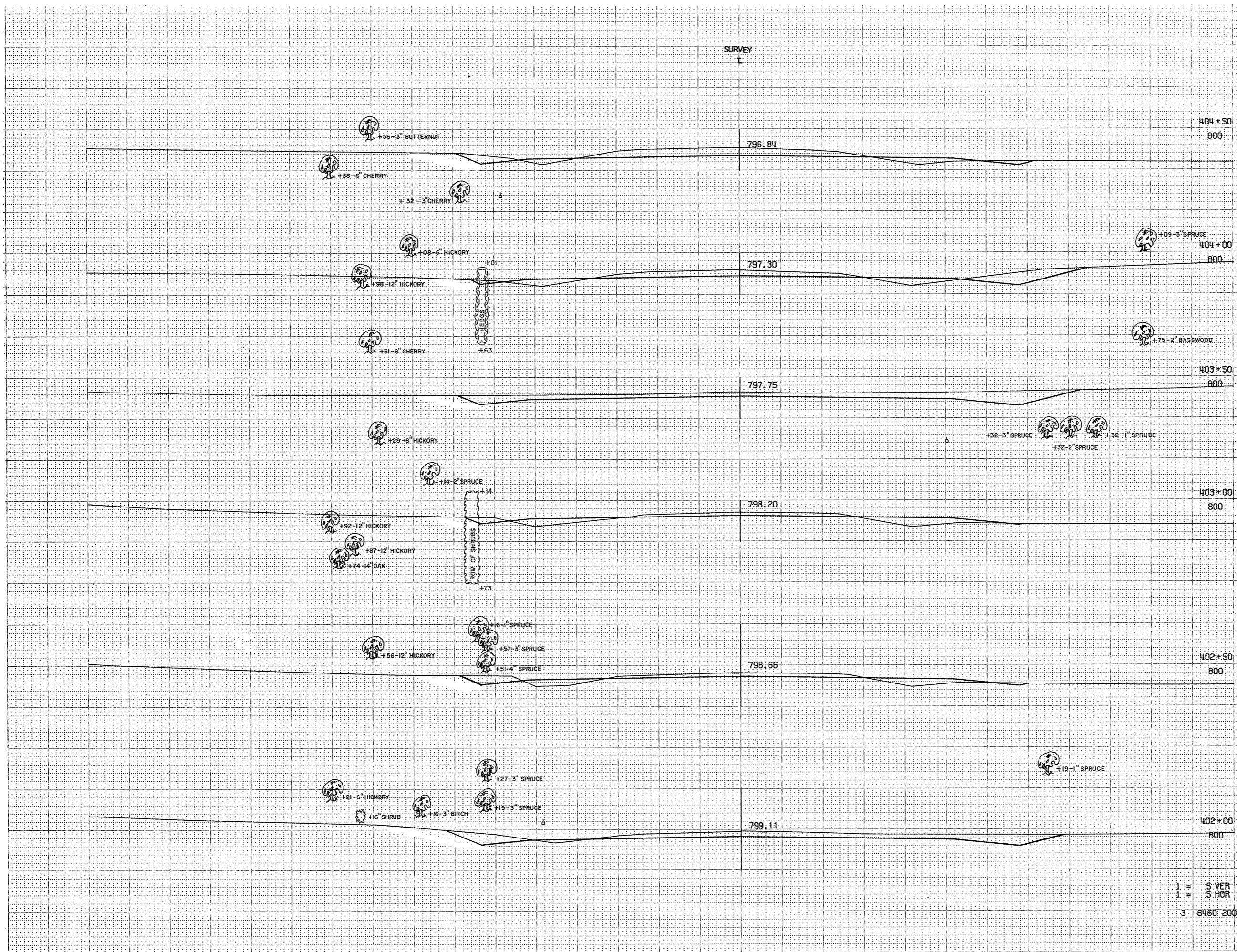
805

800.61

REGION DIVISION	PROJECT	SHEET NUMBER	TOTAL SHEETS
WIS	S 1260 (4)	8.33	
STATION	DISTANCE	YARDAGE	
		EXCAVATION	FILL
		UNCL	
399+50			
400+10		335	
401+50		57	
401+00		207	
401+50		194	
401+00		135	1
TOTAL		928	1

1" = 5' VERT  
1" = 5' HOR  
3 6460 20013

SURVEY  
T



REGION DIVISION		PROJECT	SHEET NUMBER	TOTAL SHEETS
WIS		S 1260(4)	834	
STATION	DISTANCE	YARDAGE		
		EXCAVATION		FILL
		UNCL		
+50				
404+00	108			2
+50				
403+00	71			13
+50				
402+00	36			27
+50				
401+00	66			15
+50				
400+00	82			9
+50				
399+00	68			17
TOTAL		431		83

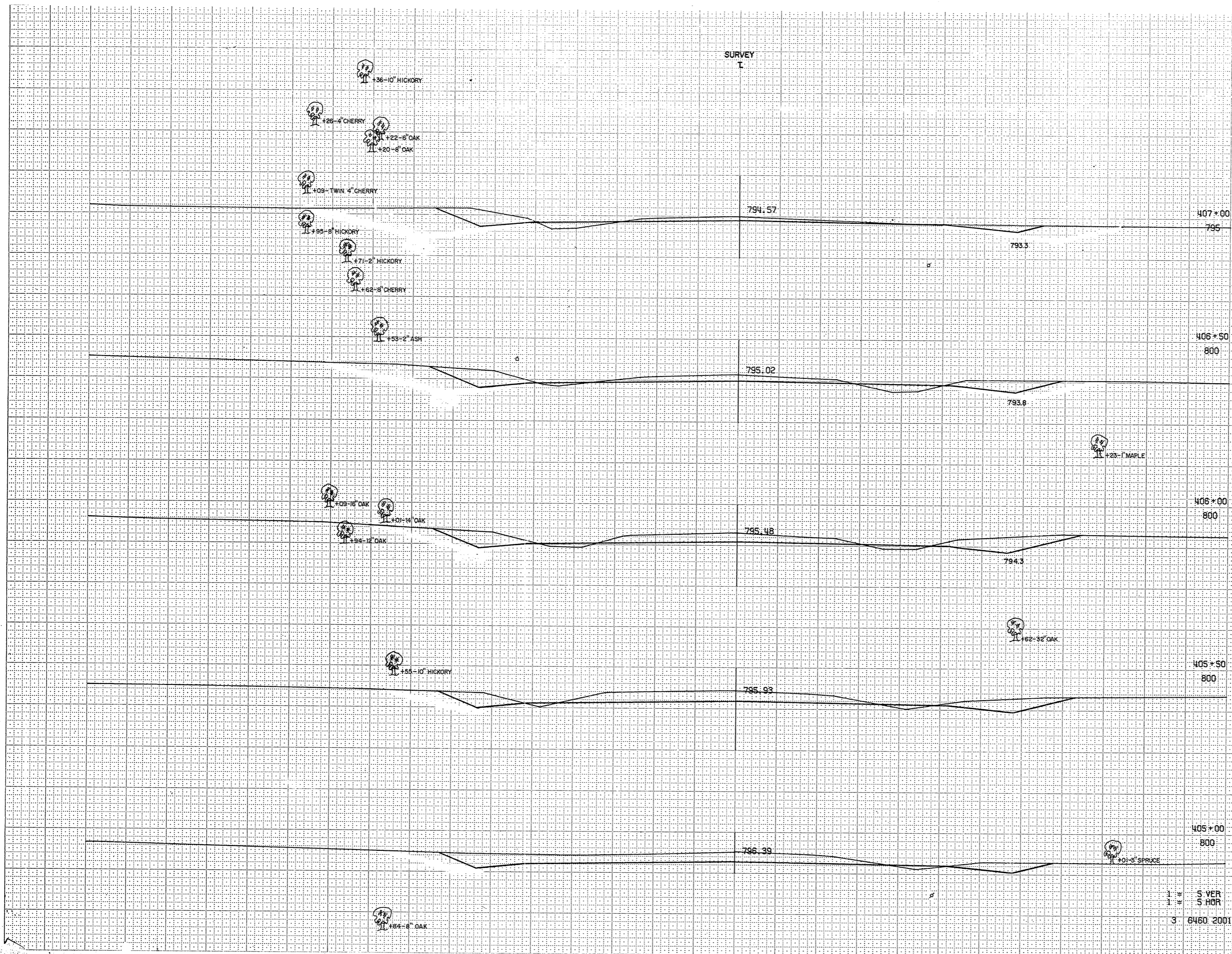
1" = 5' VER  
1" = 5' HOR  
3 6460 20013



SURVEY  
T

REGION DIVISION	PROJECT	SHEET NUMBER	TOTAL SHEETS
WIS	S. 1260 (4)	835	

STATION	DISTANCE	YARDAGE	
		EXCAVATION	FILL
		UNCL	
+50		106	9
405		138	5
+50		135	7
406		139	12
+50		139	12
407			
TOTAL		657	45



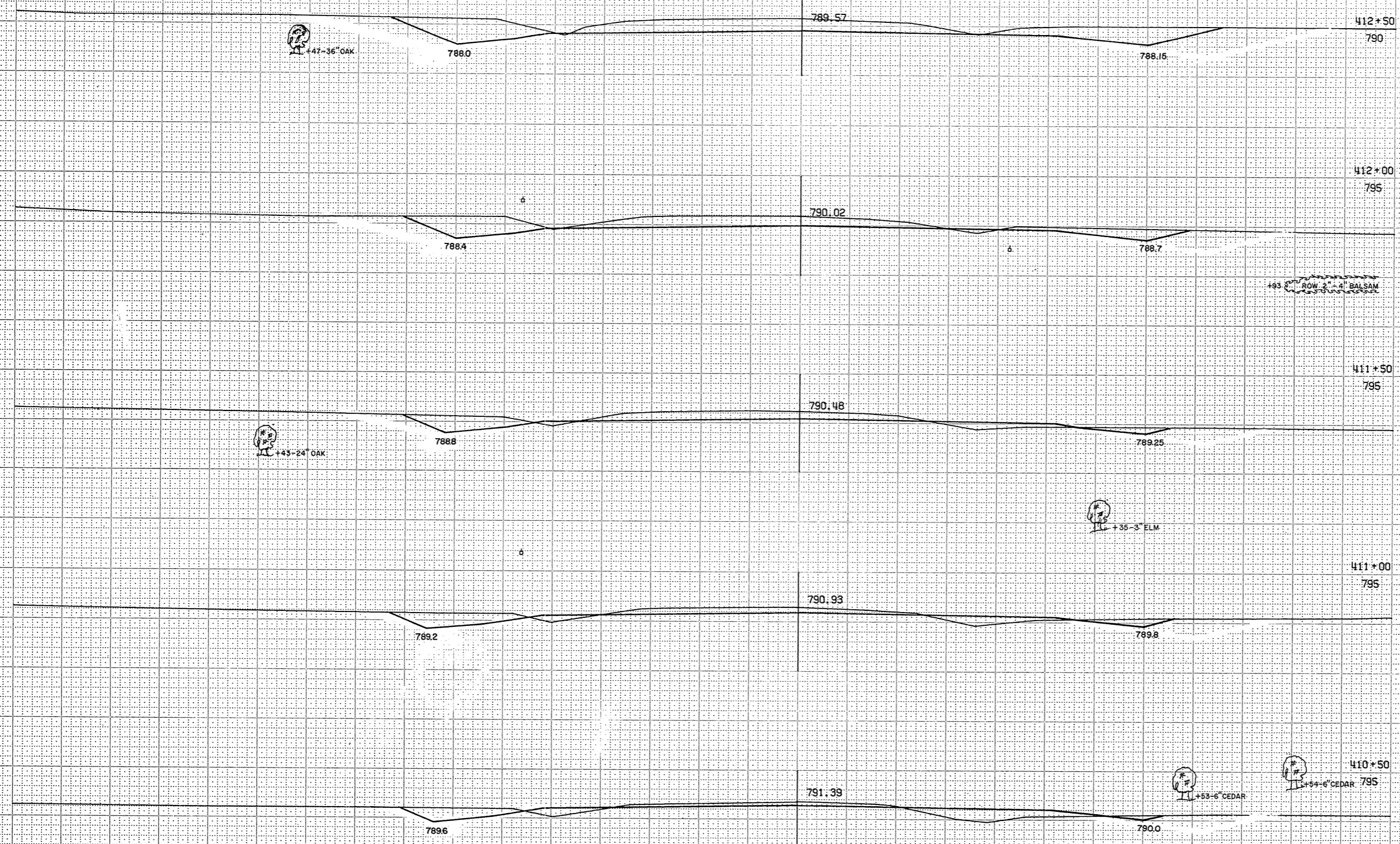
1" = 5' VER  
1" = 5' HOR  
3 8460 20013



SURVEY  
T

57/66

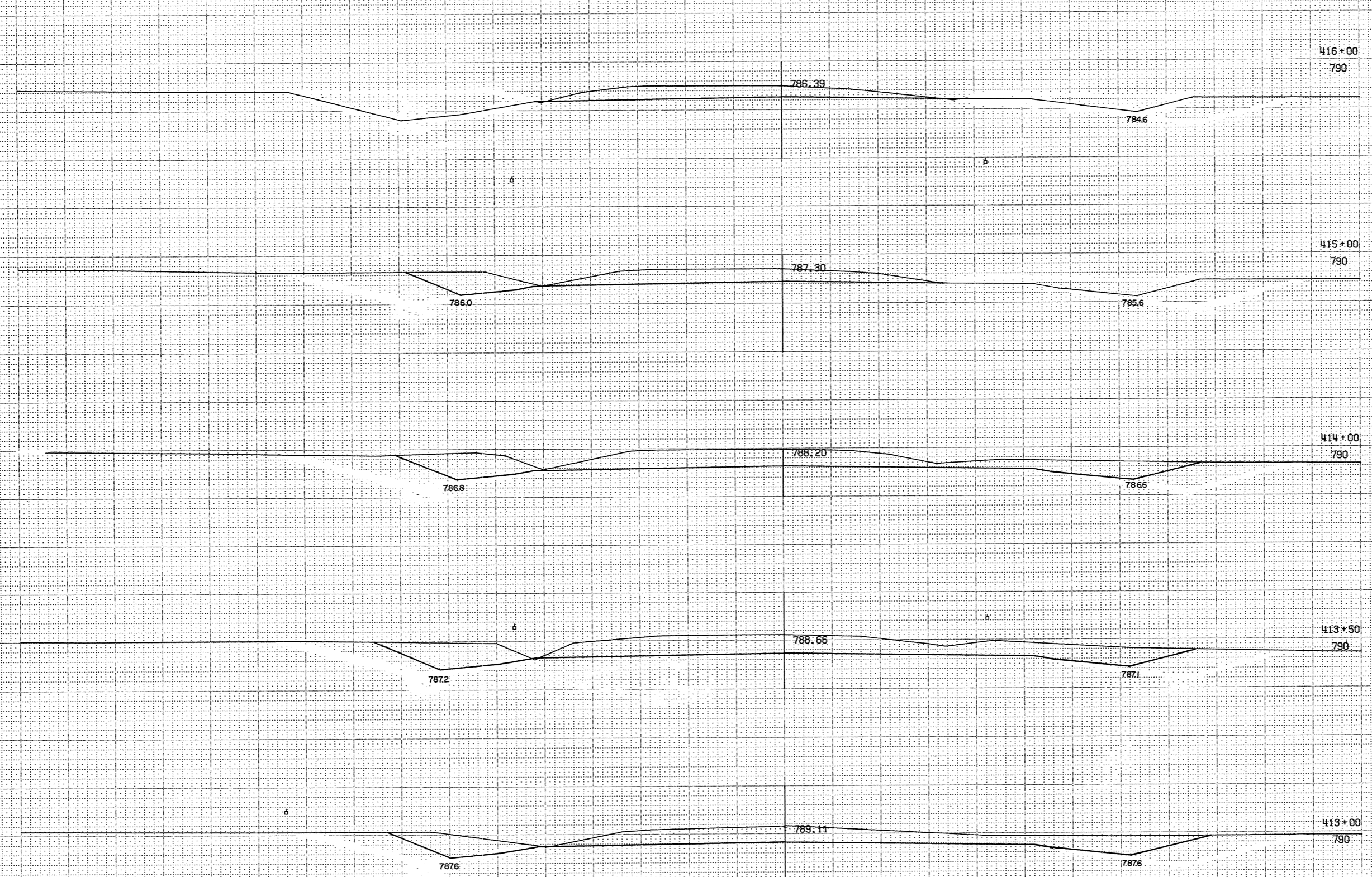
REGION DIVISION	PROJECT	SHEET NUMBER	TOTAL SHEETS
WIS	S 1260 (4)	8.37	
STATION	DISTANCE	YARDAGE	
		UNCL	FILL
410			
+50			
411			
+50			
412			
+50			
TOTAL		464	89



1" = 5' VER  
1" = 5' HOR  
3 6460 20013

5/6

SURVEY  
L



REGION DIVISION	PROJECT	SHEET NUMBER	TOTAL SHEETS
WIS	S 1260(4)	8.38	
STATION	DISTANCE	YARDAGE	
		EXCAVATION	FILL
		UNCL	
+50		230	
413		272	
+50		283	
414		443	
415		226	
416			
TOTAL		1,454	

1" = 5' VERT  
 1" = 5' HOR  
 3 6460 20013

SURVEY  
T

43-12' MAPLE

5/2

420+00  
785

782.75

419+00  
785

783.66

419+00  
785

783.66

418+00  
785

784.57

417+00  
790

785.48

783

WOODS

787

REGION	PROJECT	SHEET	TOTAL
DIVISION	S 1260 (4)	NUMBER	SHEETS
WIS		839	
STATION	DISTANCE	YARDAGE	
		EXCAVATION	
		UNCL	FILL
416			
417	129		
418	202		
419	255		
420	253		
TOTAL		839	

1" = 5' VER  
1" = 5' HOR  
3 8460 20013

4/6

3/6

SURVEY  
T

+50-28" ELM

+07-14" WALNUT

423+00

785

780.02

+84-30" ELM

+78-10" MAPLE

+66-16" MAPLE

+39-28" OAK

422+00

785

780.93

+79-36" OAK

+28-26" MAPLE

422+00

785

780.93

+85-32" MAPLE

+27-12" ELM

421+00

785

781.84

+32-12" MAPLE

+92-12" MAPLE

421+00

785

781.84

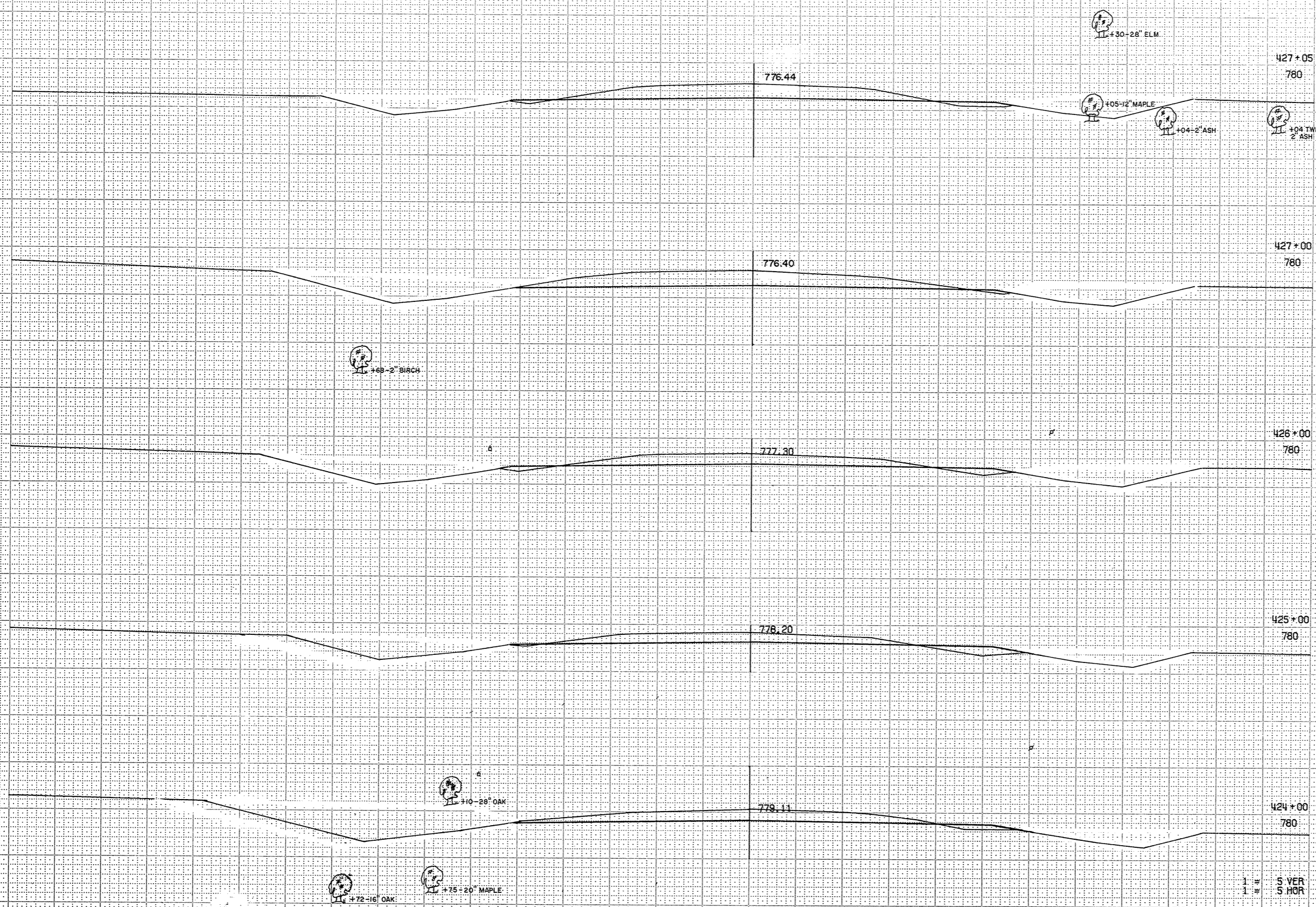
1" = 5' VER  
1" = 5' HOR  
3 6460 20013

STATION	DISTANCE	YARDAGE		TOTAL SHEETS
		EXCAVATION		
		UNCL	FILL	
420		244		
421		256		
422		274		
423				
TOTAL		774		

40

6/66

SURVEY  
T

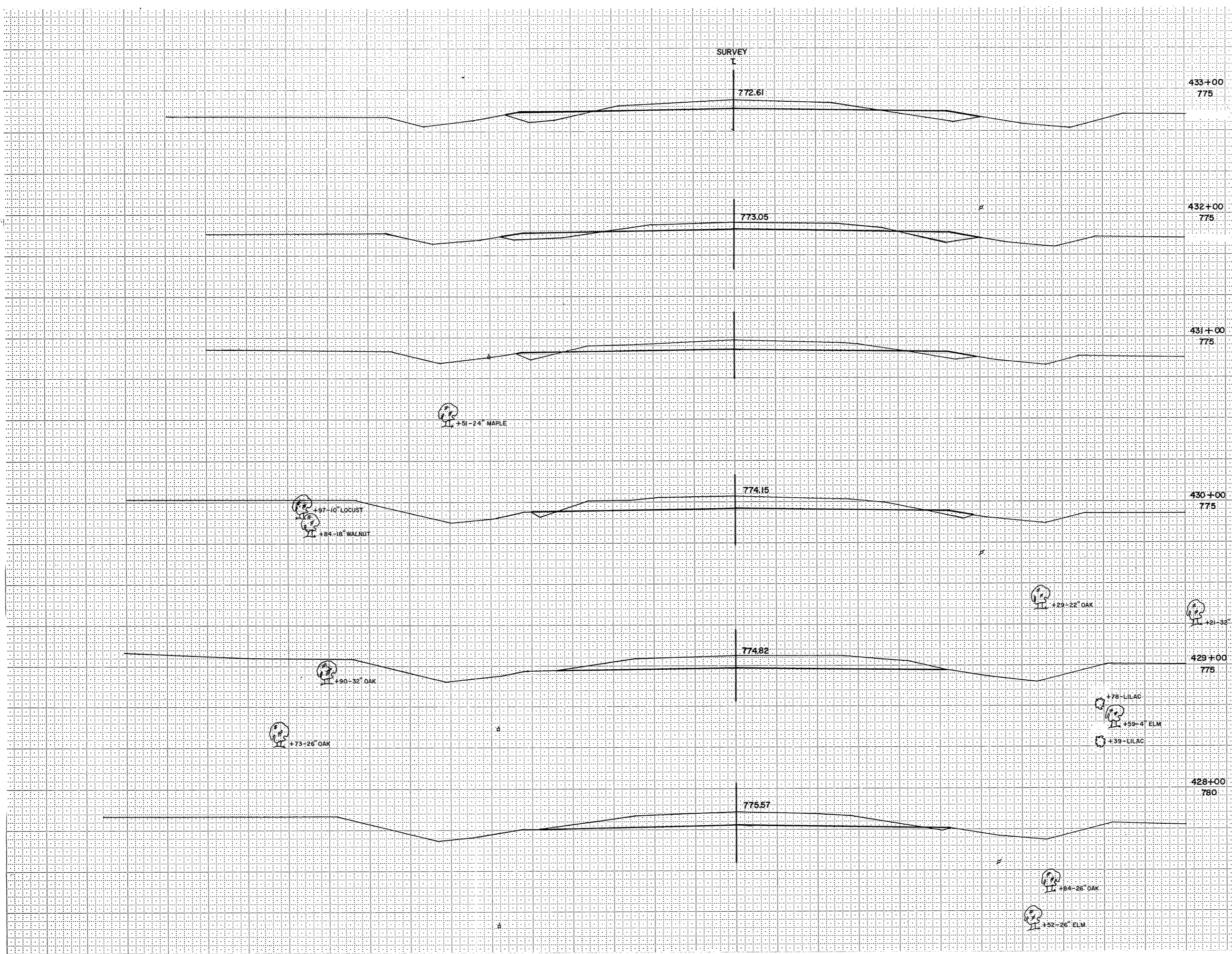


REGION DIVISION	PROJECT	SHEET NUMBER	TOTAL SHEETS
WIS	S. 1260(4)	841	

STATION	DISTANCE	YARDAGE	
		EXCAVATION	FILL
		UNCL	
423			6
424		196	17
425		102	20
426		93	
427		140	11
427+05		7	
427+00			
426+00			
425+00			
424+00			
TOTAL		538	54

1  
1  
3  
5 VER  
5 HOR  
8460 20013



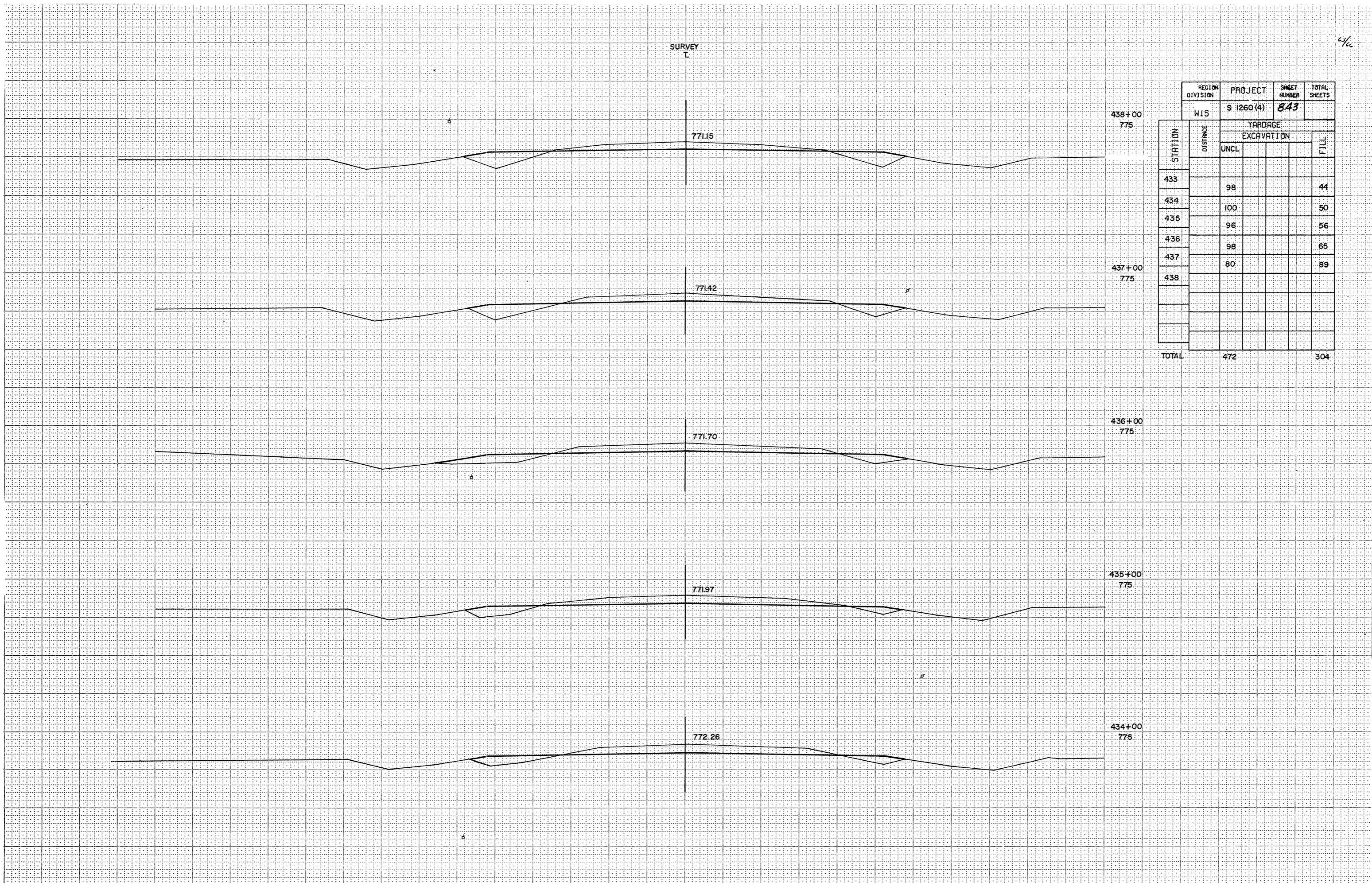
STATION	DISTANCE	YARDAGE		TOTAL SHEETS
		UNCL	FILL	
433+00	775			
432+00	775	144	9	
429		168	2	
429		181	4	
430		155	15	
431		111	31	
432		94	41	
433				
TOTAL		853	102	

REGION DIVISION	PROJECT	SHEET NUMBER	TOTAL SHEETS
WIS.	S 1260 (4)	842	



SURVEY  
T

4/6



REGION DIVISION		PROJECT	SHEET NUMBER	TOTAL SHEETS
WIS		S 1260 (4)	843	
STATION	DISTANCE	YARDAGE		
		EXCAVATION		FILL
		UNCL		
433		98		44
434		100		50
436		96		56
436		98		65
437		80		89
438				
TOTAL		472		304

49/62

SURVEY  
T

REGION DIVISION	PROJECT	SHEET NUMBER	TOTAL SHEETS
WIS	S 1260 (4)	844	
STATION	DISTANCE	YARDAGE	
		EXCAVATION	FILL
UNCL			
438			115
439	31		185
440			248
441			294
442			374
443			
442+00			
443+00			
TOTAL		31	1,216

769.77

443+00  
765

770.05

442+00  
770

770.32

441+00  
770

770.60

440+00  
775

770.87

439+00  
775

SURVEY  
I

2/66

REGION DIVISION	PROJECT	SHEET NUMBER	TOTAL SHEETS
WIS.	S 1260 (4)	845	
STATION	DISTANCE	YARDAGE	
		EXCAVATION	
		UNCL	FILL
443			513
444			689
445			854
446			843
447			
TOTAL			2,899

447+00  
770

770.24

446+00  
765

769.82

445+00  
765

769.60

444+00  
765

769.60

