

WWZ

Index of Sheets

Sheet No. 1	Title
Sheet No. 2	Typical Cross Sections
Sheet No. 3	Estimate of Quantities
Sheet No. 3A	Miscellaneous Quantities
Sheet No. 4-4.2	Right of Way Plat
Sheet No. 5-5.4	Plan and Profile (STA 100 + 11 TO STA 225 + 30)
Sheet No. 6-6.6	Standard Details
Sheet No. —	Structure Plans
Sheet No. 8-8.19	Cross Sections
Total Sheets = 39	

STATE OF WISCONSIN
DEPARTMENT OF TRANSPORTATION
DIVISION OF HIGHWAYS

PLAN AND PROFILE OF PROPOSED
C.T.H. "D" — S.T.H. 76 ROAD

C.T.H. "WW"
OUTAGAMIE COUNTY

STATE PROJECT NUMBER
6057-1-71,72

THIS CONTRACT →

STATE PROJECT	FEDERAL PROJECT	
	PROJECT	CONTRACT
6057-1-71	RS 1192(2)	1
6057-1-72	RS 1192(2)	2



RECEIVED
OUTAGAMIE COUNTY
HIGHWAY COMMISSION

+ "WW" - 2

Design Designation

A. D. T. 1974	=	240
A. D. T. 1994	=	350
D. H. V.	=	40
D.	=	50%
T.	=	9%
V.	=	50 M.P.H.

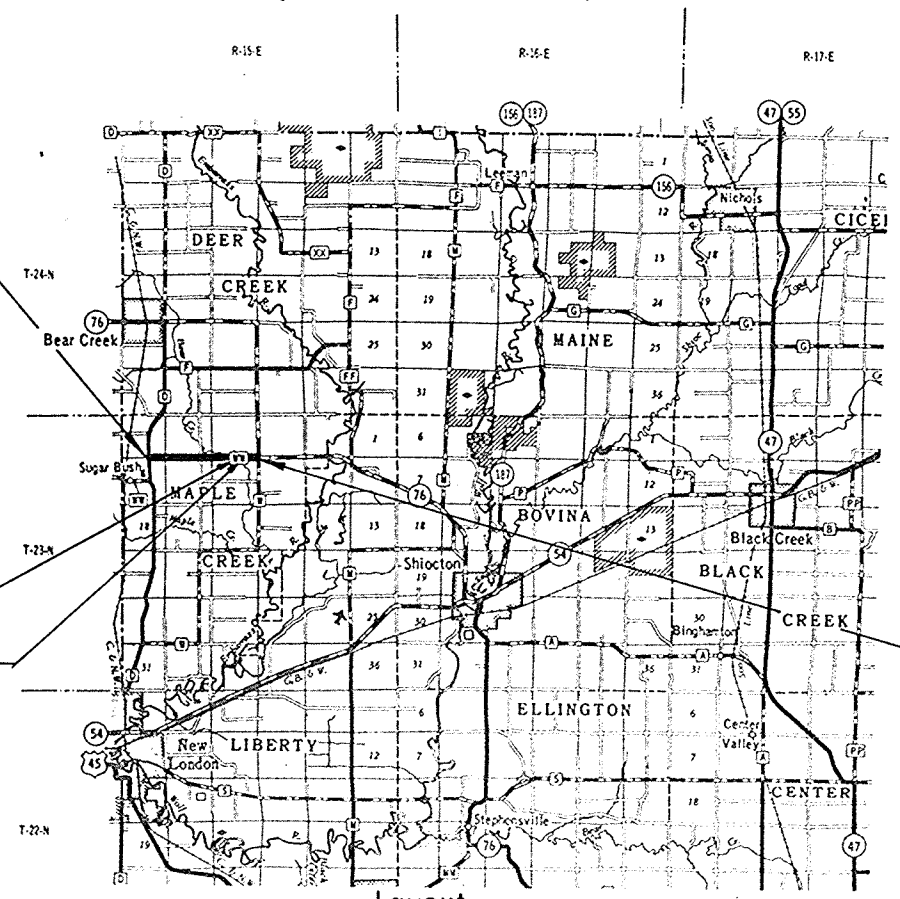
BEGINNING OF PROJECT 6057-1-71,72
STA. 100 + 11
16 FEET SOUTH AND 1,851 FEET WEST OF THE
NORTHWEST CORNER OF SECTION 8, TOWNSHIP
23 NORTH, RANGE 15 EAST.

STA. 193+84.27 TO STA. 194+15.73
EXCEPTION TO NET & LENGTH.

STA. 195+34.27 TO STA. 195+65.73
EXCEPTION TO NET & LENGTH

Conventional Signs

State Line	-----	Culverts in Place	-----
County Line	-----	Culverts Required	-----
Township or Range Line	-----	Drop Inlet	-----
Section Line	-----	Power Pole	-----
New Right of Way Line	-----	Telephone or Telegraph Pole	-----
Present Right of Way Line	-----	Right of Way Markers	-----
Wire Fence { Woven	-----	Reference Stake for Hubs Only	-----
Barbed	-----	Marsh	-----
Lot Line	-----	Hedge	-----
Corporate or City Limits	-----	Trees	-----
Property Line	-----	Ground Elevation	Datum Line
Traveled Way or P. E.	-----	Grade Elevation	Datum Line
Railroads	-----		
Base or Survey Line	-----		



END OF PROJECT 6057-1-71,72
STA. 225 + 30
2,516 FEET EAST OF THE NORTH ONE-QUARTER
CORNER OF SECTION 9, TOWNSHIP 23 NORTH,
RANGE 15 EAST.

Total Net Length of Centerline = 2.359 Mi. (RURA: 1)

APPROVED FOR
OUTAGAMIE CO. BOARD OF SUPERVISORS BY:

OUTAGAMIE COUNTY, WISCONSIN
4/23/74
DATE
Signature of Official

STATE OF WISCONSIN
DEPARTMENT OF TRANSPORTATION
DIVISION OF HIGHWAYS

Surveyor J.R.T. District Checker W.R.K.
Designer J.P.F. C.O. Checker L.L.J.

Correct:

Date 4/29/74 C.P. Ryan
District Engineer

Recommended for Approval:

Date 6/4/74 J.C. Hennrich
Chief of Facilities Development

Approved:

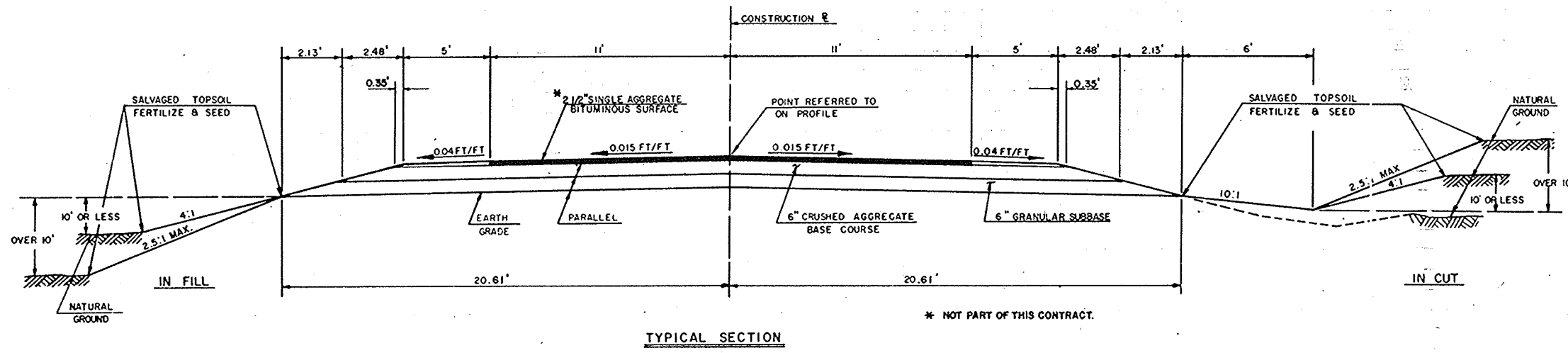
Date 6/4/74 J.L. Kiedler
State Highway Engineer

U.S. DEPARTMENT OF TRANSPORTATION
FEDERAL HIGHWAY ADMINISTRATION

REGION 5 WISCONSIN DIVISION

Approved:

Date
Division Engineer



GENERAL NOTES

CUBIC YARDS OF FILL SHOWN ON THE PLAN SHEETS PERTAINS TO EMBANKMENT CONSTRUCTED FROM UNCLASSIFIED EXCAVATION WITH A SHRINKAGE OF 25% AND BORROW EXCAVATION WITH SHRINKAGE OF 20% BASED ON THE VOLUME OF THE FILL.

UTILITY COMPANIES SHALL ADJUST OR MOVE ALL PRIVATELY OWNED FACILITIES WHICH INTERFERE WITH THE NEW CONSTRUCTION.

THE EXACT LOCATION FOR PRIVATE ENTRANCES SHALL BE DETERMINED BY THE ENGINEER IN THE FIELD.

INLET AND DISCHARGE ELEVATIONS SHOWN ON THE PLAN SHEETS ARE APPROXIMATE AND SHALL BE DETERMINED BY THE ENGINEER IN THE FIELD. EXACT LOCATION OF THE MAINLINE AND PRIVATE ENTRANCE CULVERT PIPES SHALL BE DETERMINED BY THE ENGINEER IN THE FIELD.

SALVAGED TOPSOIL SHALL BE PLACED AS REQUIRED TO AN APPROXIMATE DEPTH OF 3 INCHES OR AS DIRECTED BY THE ENGINEER IN THE FIELD.

SEED MIXTURE NUMBER 1 SHALL BE USED.

WHEN THE QUANTITY OF THE ITEM OF CRUSHED AGGREGATE BASE COURSE IS MEASURED FOR PAYMENT BY THE TON, THE DEPTH OR THICKNESS WILL DEPEND ON THE DISTRIBUTION OF THE MATERIAL AS DIRECTED BY THE ENGINEER.

ITEMS LISTED ON THE PLAN SHEETS AND NOT INCLUDED IN THE ESTIMATE OF QUANTITIES ARE NOT PART OF THIS PROJECT.

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.

ALL INTERSECTIONS SHALL BE TYPE "C" EXCEPT AS NOTED.

ALL LANDMARK REFERENCE MONUMENTS TO BE TYPE "A"

UTILITIES LOCATED WITHIN THIS PROJECT

WISCONSIN-MICHIGAN POWER COMPANY
MR. O.R. BOLL 734-1411
807 SOUTH ONEIDA STREET
APPLETON, WISCONSIN 54911

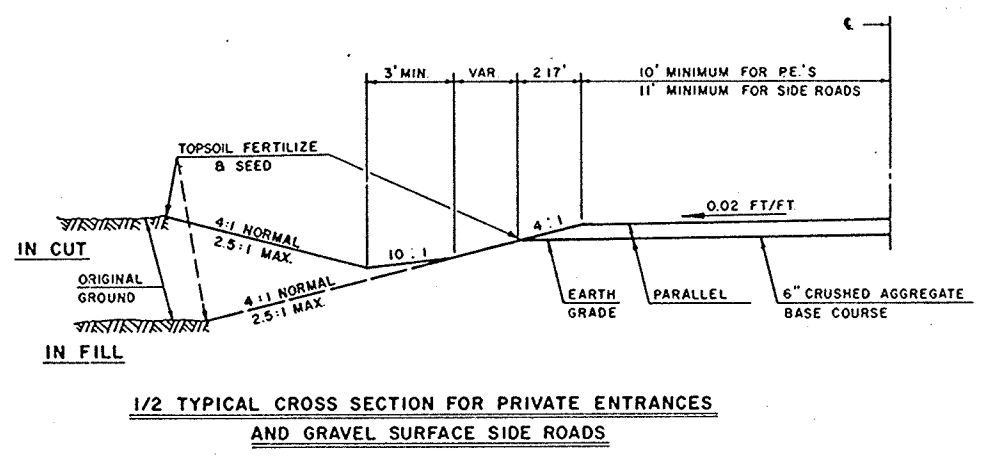
URBAN TELEPHONE COMPANY
MR. FOREST H. SCHAFER 823-2115
CLINTONVILLE, WISCONSIN

STANDARD DETAIL DRAWINGS

- APRON ENDWALLS FOR CULVERT PIPE AND PIPE ARCH.....8F1-4
- CORRUGATED METAL PIPE ARCH.....8F2-1
- DESIGN DETAILS FOR SIDE ROAD AT - GRADE INTERSECTIONS...9A1-2
- CLASS "A" STEEL PLATE BEAM GUARD.....1482-3a&b
- CONSTRUCTION BARRICADE.....1501-2
- LANDMARK REFERENCE MONUMENTS.....16A1-2

STANDARD ABBREVIATIONS

N.B.	=	NORTHBOUND	BIT. CONC.	=	BITUMINOUS CONCRETE PAVEMENT
S.B.	=	SOUTHBOUND	S.E.	=	SUPERELEVATION
H.P.	=	HIGH POINT	TRANS.	=	LGT. OF RUNOFF + TAN RUNOUT
M.L.	=	MATCHLINE	E.B.S.	=	EXCAVATION BELOW SUBGRADE
UNCL.	=	UNCLASSIFIED EXCAVATION	C.B.	=	CATCH BASIN
C.	=	CUT	M.H.	=	MANHOLE
F.	=	FILL	R.H.F.	=	RIGHT HAND FORWARD
M.E.	=	MARSH EXCAVATION	L.H.F.	=	LEFT HAND FORWARD
B.	=	BORROW	M.	=	MEDIAN
L.H.E.	=	LIMITED HIGHWAY EASEMENT	DT.	=	DITCH
C.P.	=	CULVERT PIPE	MON.	=	MONUMENT
R.C.	=	REINFORCED CONCRETE	R.L.	=	REFERENCE LINE
C.M.	=	CORRUGATED METAL	A.R.L.	=	AUXILIARY REFERENCE LINE
S.S.	=	STORM SEWER	CL	=	CENTERLINE
P.C. CONC.	=	PORTLAND CEMENT CONCRETE PAVEMENT	R.C.C.P.	=	REINFORCED CONCRETE CULVERT PIPE
P.O.T.	=	POINT ON TANGENT	C.M.C.P.	=	CORRUGATED METAL CULVERT PIPE
C.Y.	=	CUBIC YARD	CULT.	=	CULTIVATED
D.G.	=	DITCH GRADE	R/W	=	RIGHT OF WAY
V.C.	=	VERTICAL CURVE	P.L.	=	PROPERTY LINE
B.M.	=	BENCH MARK	INL	=	INLET
P.E.	=	PRIVATE ENTRANCE	DIS.	=	DISCHARGE
F.E.	=	FIELD ENTRANCE	RL	=	REFERENCE LINE
			L	=	TRANSIT LINE



CONTRACT NO. 2 6057 - 1 - 72
GRADE, SUBBASE & BASE
CONTRACT NO. 1 6057 - 1 - 71
BASE

SHEET NO.

3

[illegible]

DETAIL SUMMARY SHEET OF MISCELLANEOUS QUANTITIES

STATE PROJECT NUMBER	SHEET NO.
6057-1-71, 72	3A

CROSS DRAIN & P.E. CULVERT PIPES					
STATION	LOCATION	DIAMETER INCH	LENGTH LIN. FT.	TYPE	ENDWALLS
118 + 57	⊙	24	42	C. P. CLASS III	2
134 + 55	⊙	24	62	C. P. CLASS III	2
149 + 93	⊙	42	52	C. P. CLASS III	2
172 + 70	P. E. LT.	24	28	C. P. CLASS III	2
172 + 10	P. E. RT.	24	28	C. P. CLASS III	2
199 + 70	⊙	36	48	C. P. CLASS III	2
204 + 30	⊙	30	52	C. P. CLASS III	2
224 + 78	⊙	29" X 18"	42	C. M. P. A.	2
15 P. E. 'S @ 18" X 28"			420	C. P. CLASS III	30

STEEL PLATE BEAM GUARD, CLASS "A"		
LOCATION	LIN. FT.	ANCHORS
STA. 193 ± 60 - STA. 195 ± 99 LT.	304	2
STA. 193 ± 30 - STA. 196 ± 34 RT.	304	2

195 + 99
193 + 60
7139

GRANULAR SUBBASE COURSE, 6-INCH.		
LOCATION	SQ. YDS.	CU. YDS. * (APPROXIMATE)
MAINLINE & INTERSECTIONS	42,000	8,100
* INCLUDES 15% COMPACTION		

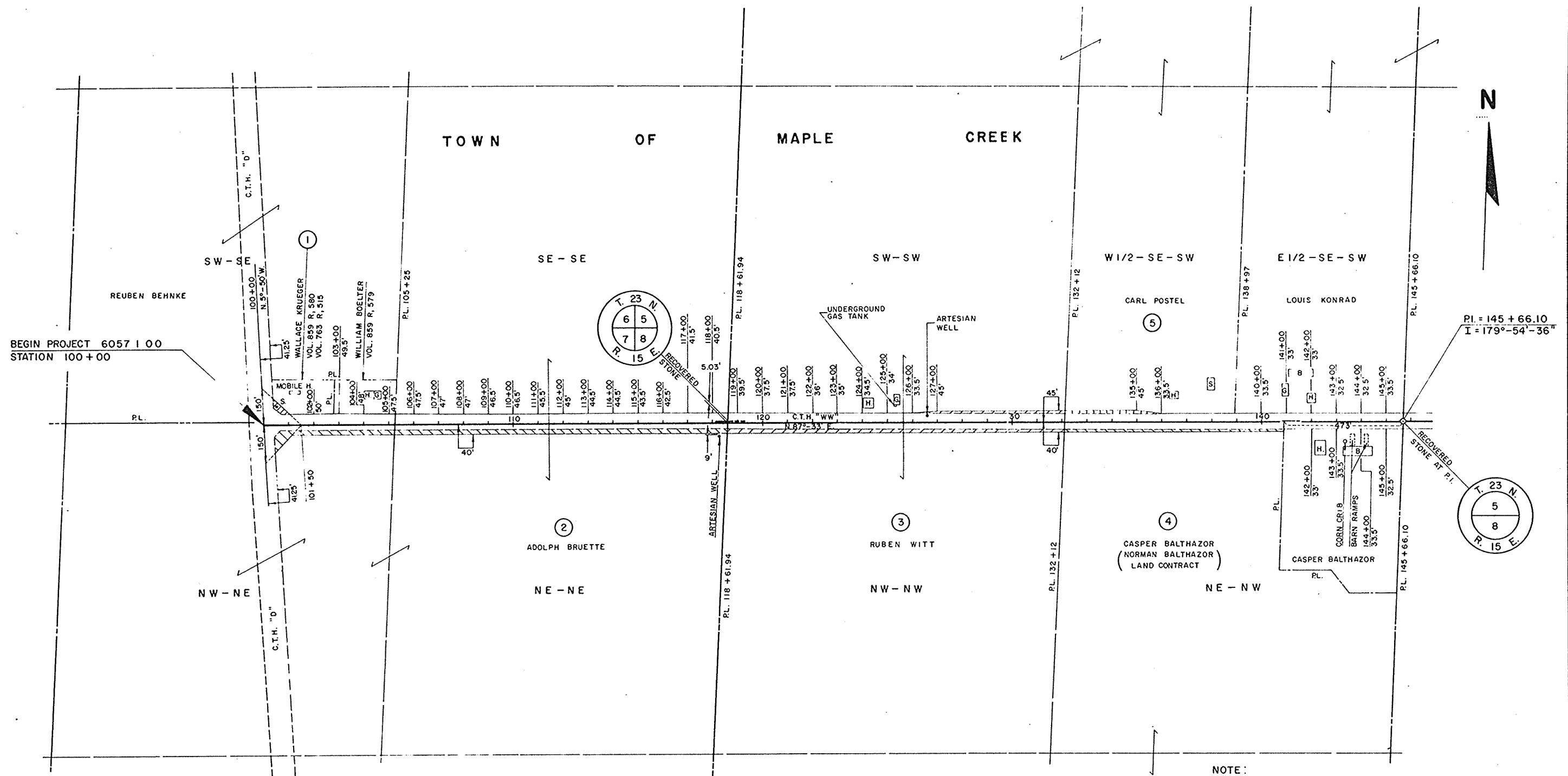
LANDMARK REFERENCE MONUMENTS		
LOCATION	DESCRIPTION	MONUMENTS REQUIRED
STA. 118 + 61.94	N. W. CORNER SECTION 8	4
STA. 145 + 66.10	NO. 1/4 CORNER SECTION 8	4
STA. 172 + 56.46	N. E. CORNER SECTION 8	4
STA. 199 + 14.28	NO. 1/4 CORNER SECTION 9	4

CRUSHED AGGREGATE BASE COURSE	
LOCATION	TONS
MAINLINE	16,600
TOWN ROADS & INTERSECTIONS	500
P. E. 'S	400

SCHEDULE OF LANDS AND INTERESTS REQUIRED

PARCEL NUMBER	SHEET NUMBER	OWNER	INTEREST REQUIRED	ACRES REQUIRED
1	4.1	WALLACE KRUEGER	FEE	0.04
2	4.1	ADOLPH BRUETTE	HIGHWAY EASEMENT	0.85
3	4.1	RUBEN WITT	"	0.43
4	4.1 & 4.2	CASPER BALTHAZOR	"	0.42
5	4.1	CARL POSTEL	"	0.09

REVISION DATE	PROJECT I.D. 6057 1 00	SHEET NUMBER 4.1	TOTAL SHEETS 4
FEDERAL PROJECT DESIGNATION			
PLAT OF RIGHT OF WAY REQUIRED C.T.H. "WW" OUTAGAMIE COUNTY			
SCALE 0 400ft.		DATE	
Const. Project 6057-1-71,72			4



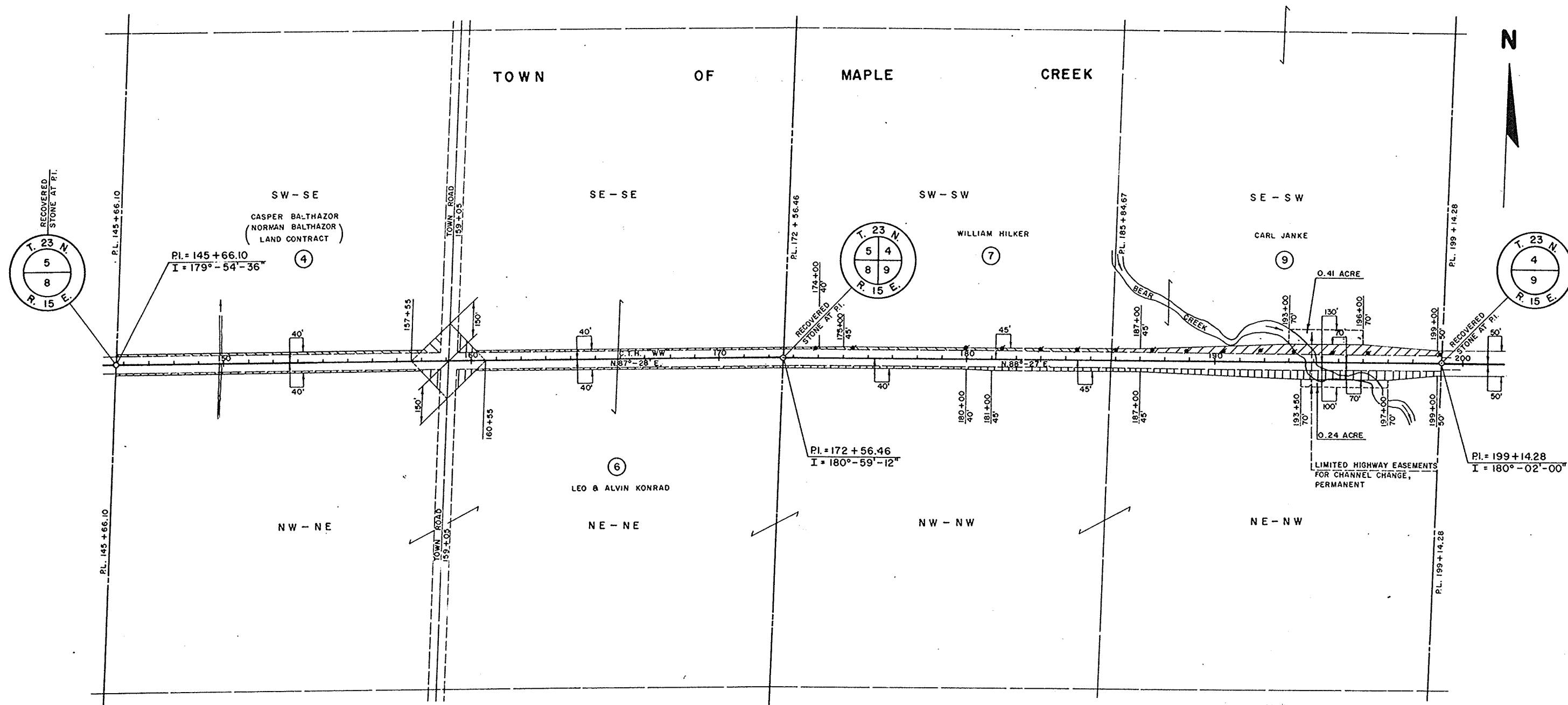
SCHEDULE OF LANDS & INTERESTS REQUIRED

PARCEL NUMBER	SHEET NUMBER	OWNER	INTEREST REQUIRED	ACRES REQUIRED
4	4.1 & 4.2	CASPER BALTHAZOR	HIGHWAY EASEMENT	0.42
6	4.2	LEO & ALVIN KONRAD	"	1.93
7	4.2	WILLIAM HILKER	"	0.34
8	4.2	URBAN TELEPHONE CO.	RELEASE OF RIGHTS	—
9	4.2	CARL JANKE	HIGHWAY EASEMENT	0.82

LEGEND

--- TELEPHONE POLE --- (8)

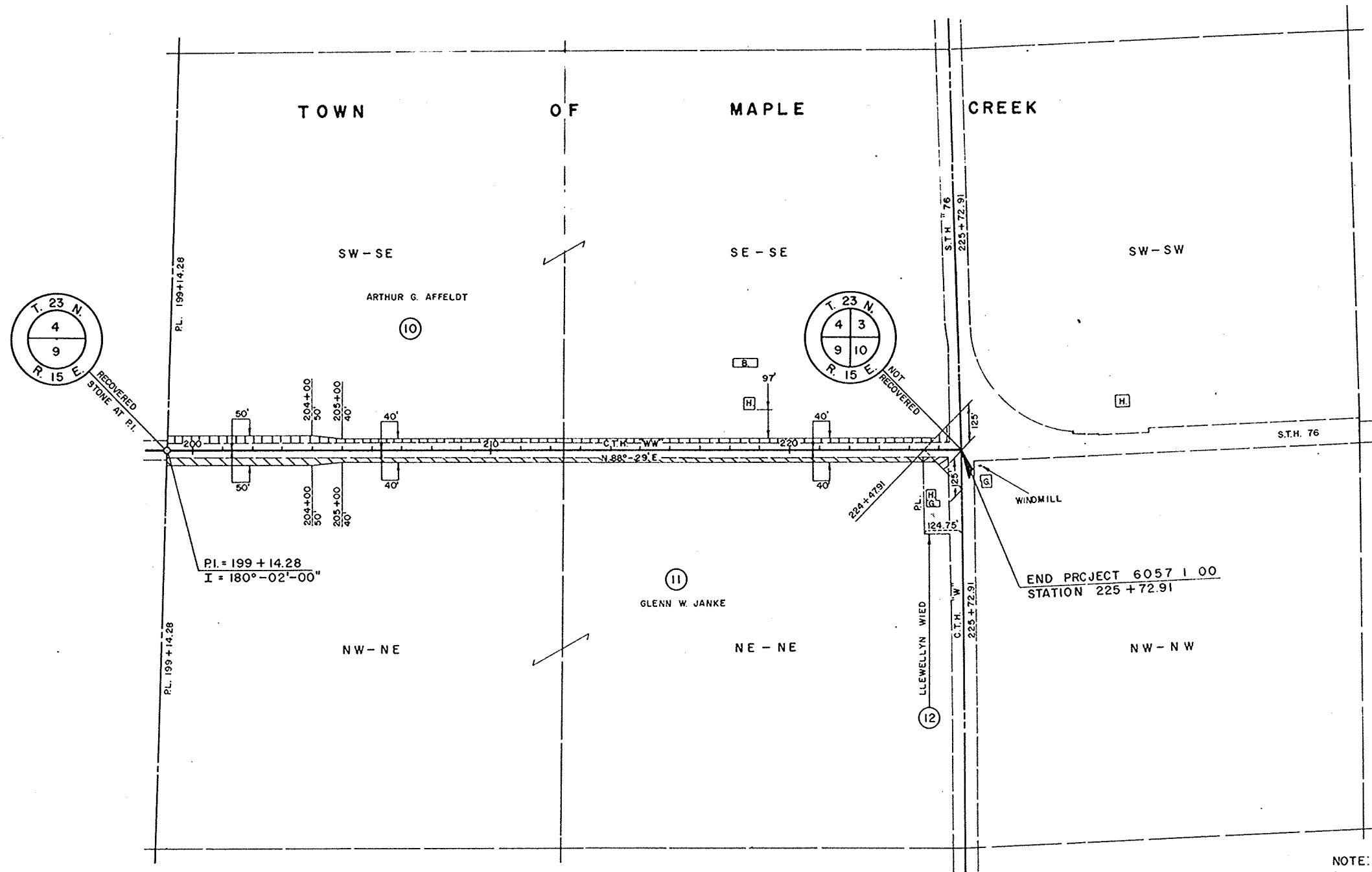
REVISION DATE	PROJECT I.D.	SHEET NUMBER	TOTAL SHEETS
	6057 1 00	4.2	
	FEDERAL PROJECT DESIGNATION		
	PLAT OF RIGHT OF WAY REQUIRED C.T.H. "WW" OUTAGAMIE COUNTY		
	SCALE	DATE	
	0 400 Ft.		
Const. Project	6057-1-71, 72		4.1



SCHEDULE OF LANDS & INTERESTS REQUIRED

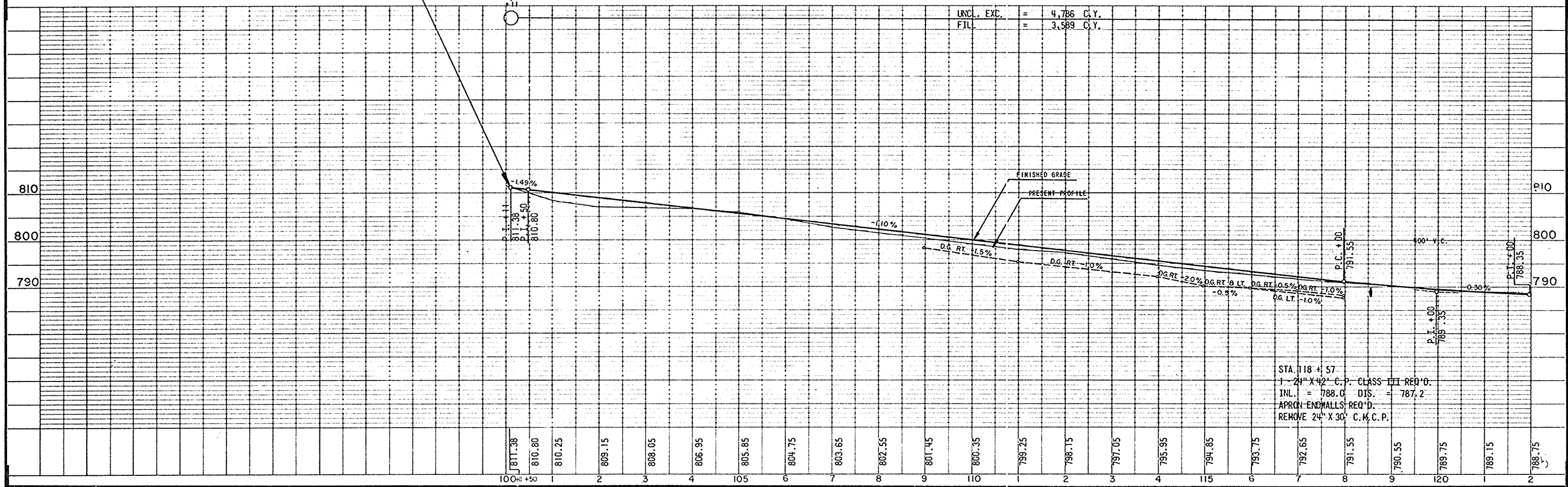
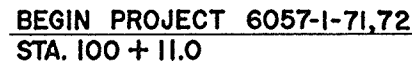
PARCEL NUMBER	SHEET NUMBER	OWNER	INTEREST REQUIRED	ACRES REQUIRED
10	4.3	ARTHUR G. AFFELDT	HIGHWAY EASEMENT	1.05
11	4.3	GLENN W. JANKE	"	1.00
12	4.3	LLEWELLYN WIED	"	0.05

REVISION DATE	PROJECT I.D. 6057 1 00	SHEET NUMBER 4.3	TOTAL SHEETS 4.2
FEDERAL PROJECT DESIGNATION			
PLAT OF RIGHT OF WAY REQUIRED C.T.H. "WW" OUTAGAMIE COUNTY			
SCALE 0 400 Ft. DATE			
Const. Project 6057-1-71, 72			



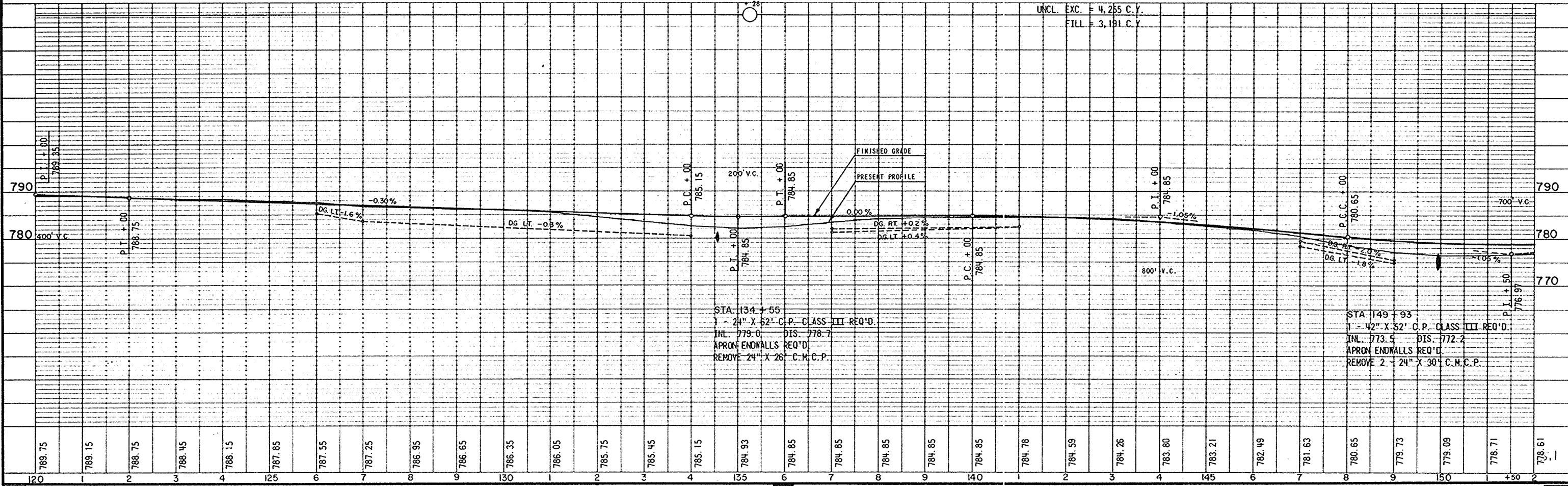
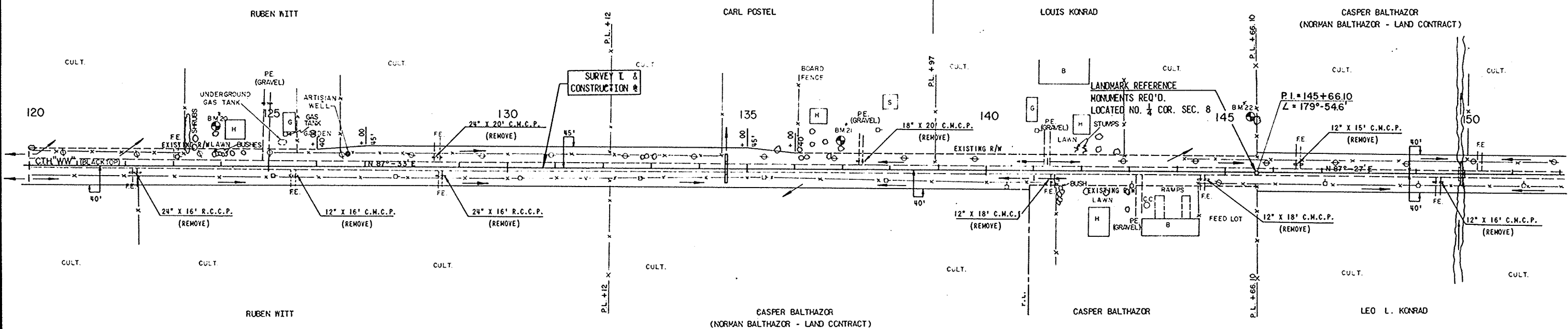
NOTE:
BEARINGS SHOWN ON THIS PLAT ARE THE MAGNETIC
BEARINGS OF EACH TANGENT TO THE NEAREST MINUTE.

STATE PROJECT NUMBER	SHEET NO.
6057 - 1 - 71,72	5



BENCH MARKS				
NO.	STATION	DESCRIPTION		ELEV.
20	123+81	SPIKE IN 36" MAPLE	68' LT.	788.47
21	136+97	SPIKE IN 18" APPLE	45' LT.	783.81
22	145+65	SPIKE IN 20" TBASSWOOD	110' LT.	782.85

STATE PROJECT NUMBER	SHEET NO.
6057 - 1 - 71, 72	5.1



158
782

158
782

BENCH MARKS

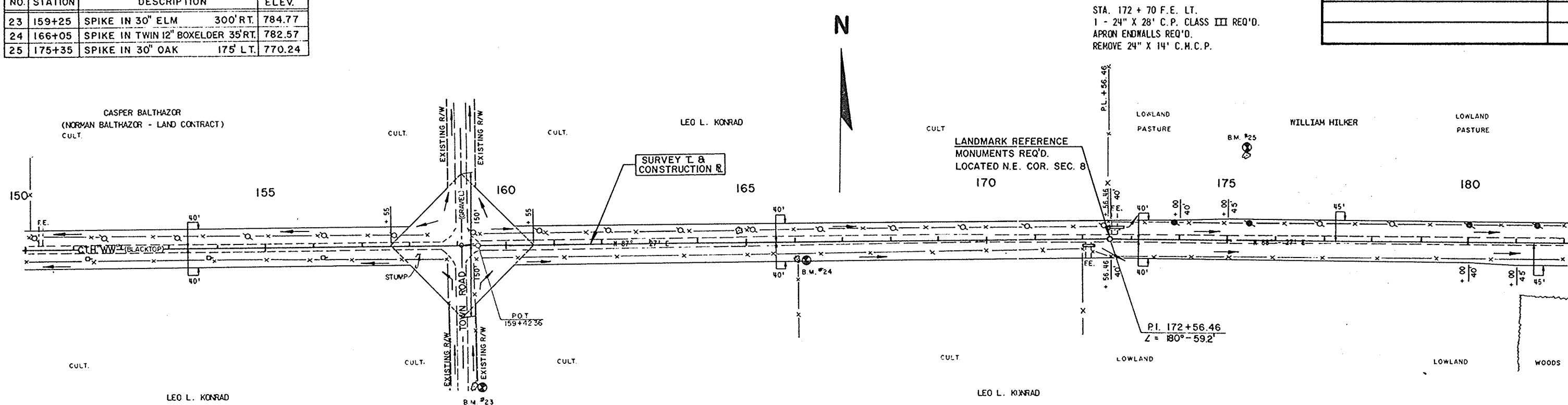
NO.	STATION	DESCRIPTION	ELEV.
23	159+25	SPIKE IN 30" ELM 300' RT.	784.77
24	166+05	SPIKE IN TWIN 12" BOXELDER 35' RT.	782.57
25	175+35	SPIKE IN 30" OAK 175' LT.	770.24

STATE PROJECT NUMBER

6057 - 1 - 71,72

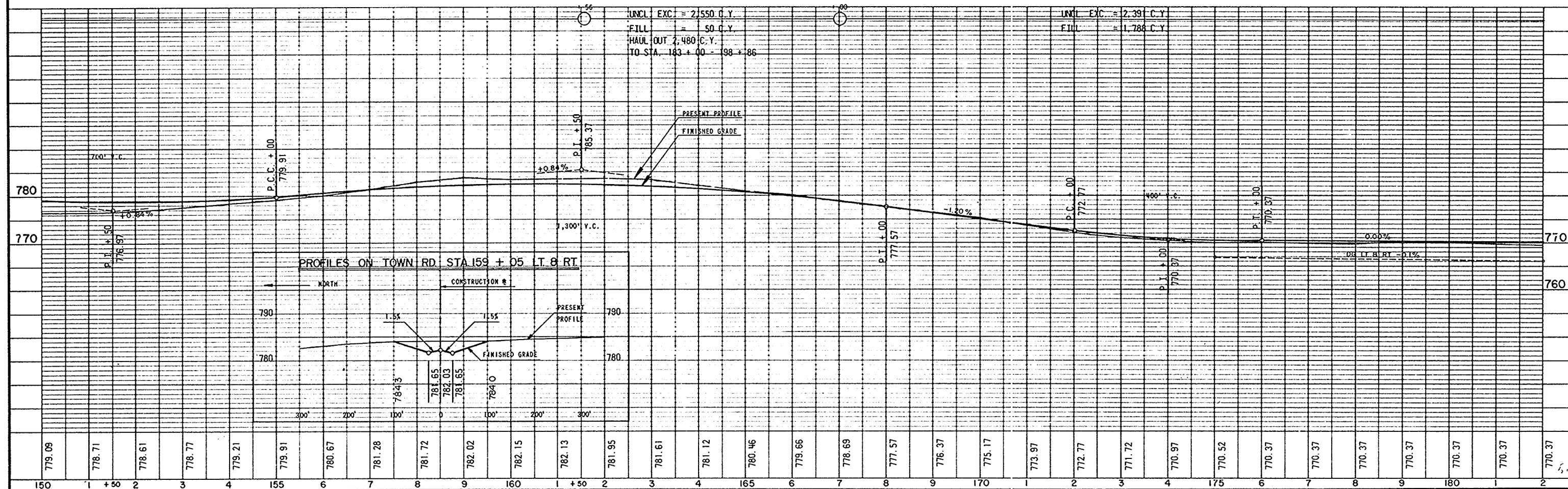
SHEET NO.

5.2

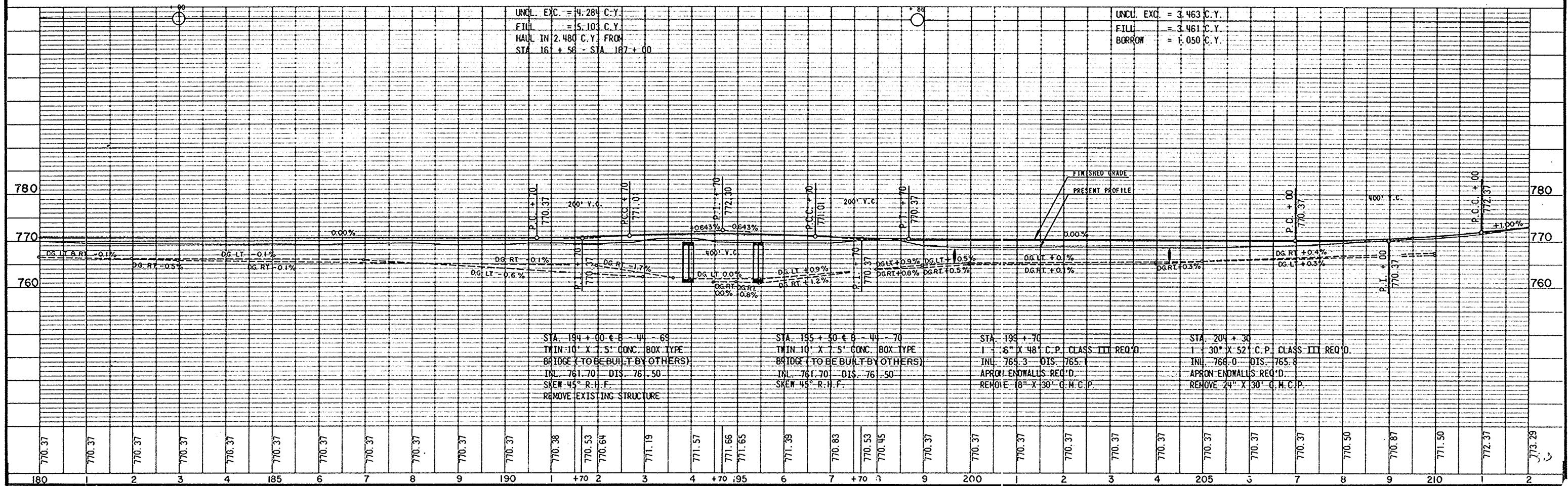
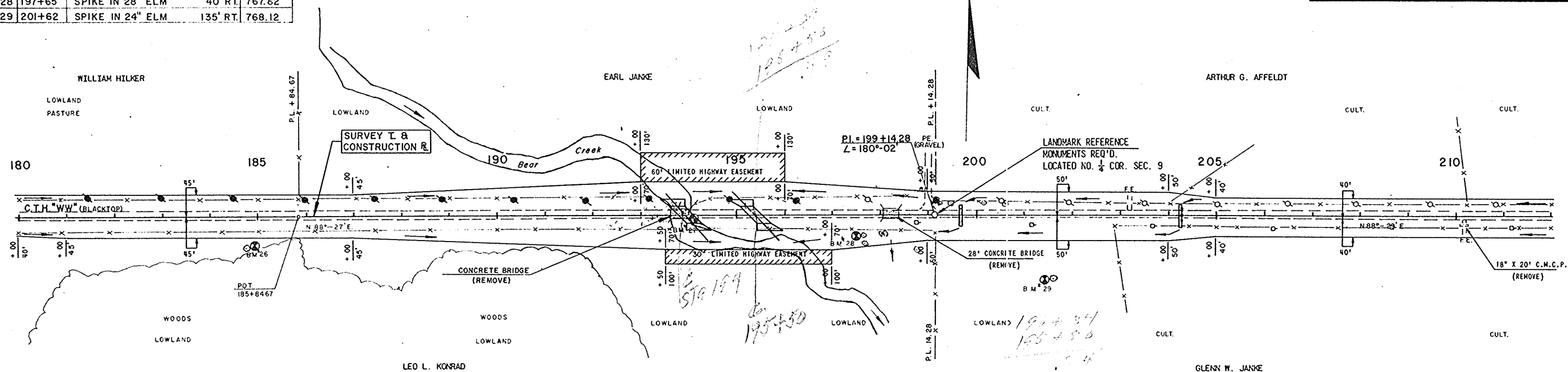


STA. 159 + 05 C.T.H. "NM" (TOWN RD. LT. & RT.)
DESIGN TYPE "C" INTERSECTION REQ'D.
SEE STANDARD DETAIL DRAWING

STA. 172 + 10 F.E. RT.
1 - 24" X 28' C.P. CLASS III REQ'D.
APRON ENDWALLS REQ'D.
REMOVE 18" X 16' C.M.C.P.

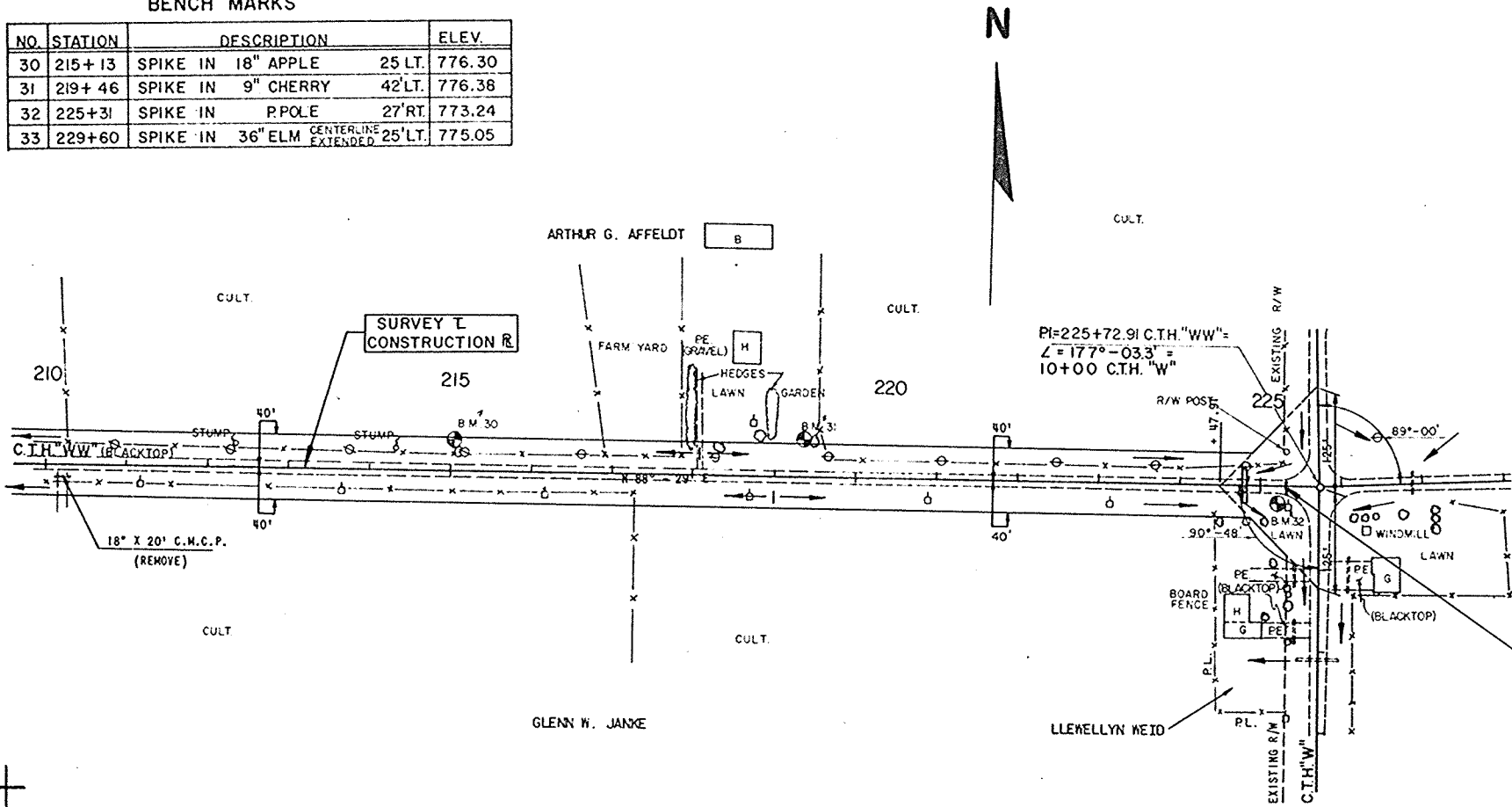


STATE PROJECT NUMBER	SHEET NO.
6057 - 1 - 71,72	53

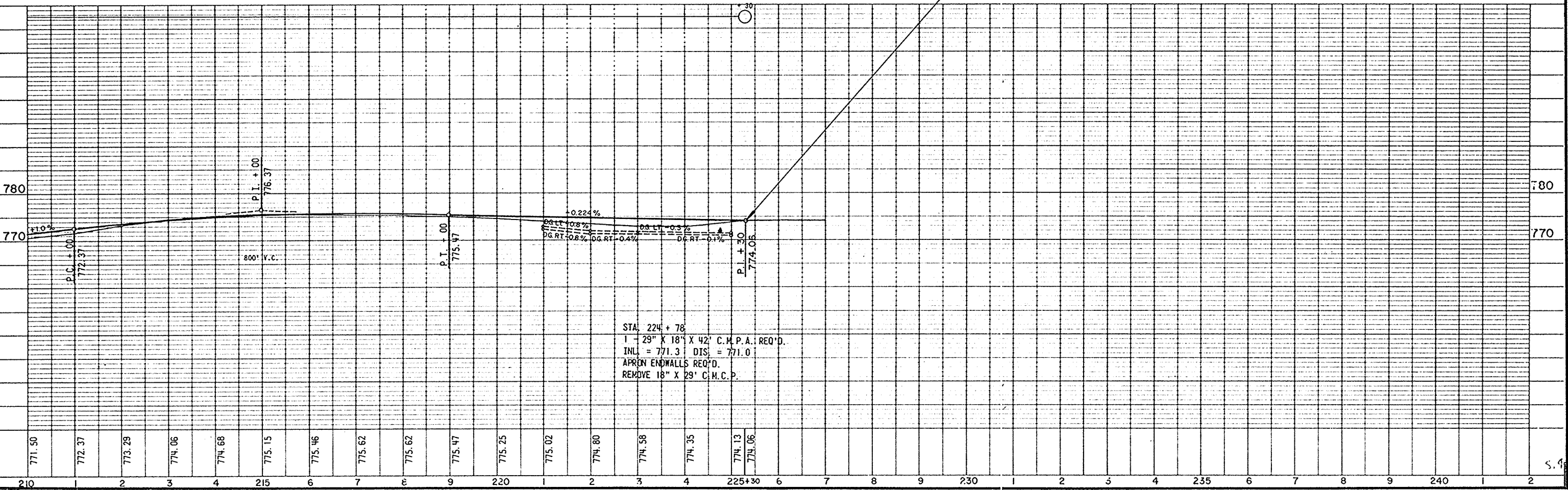


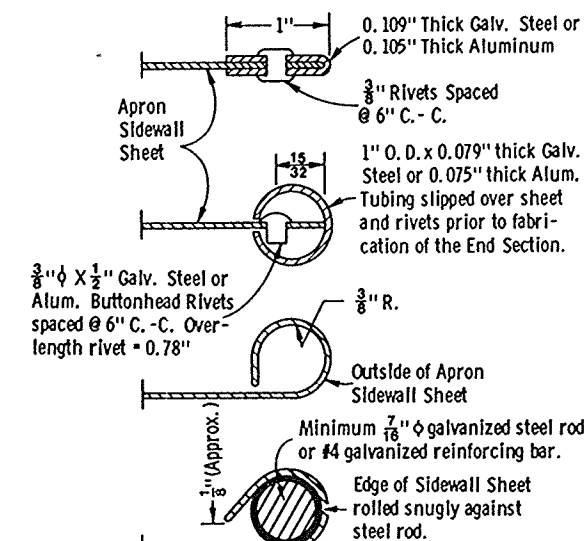
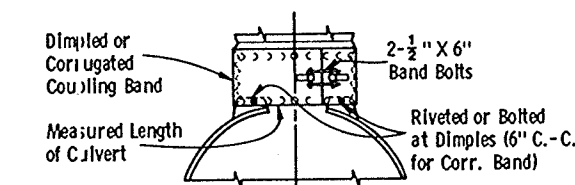
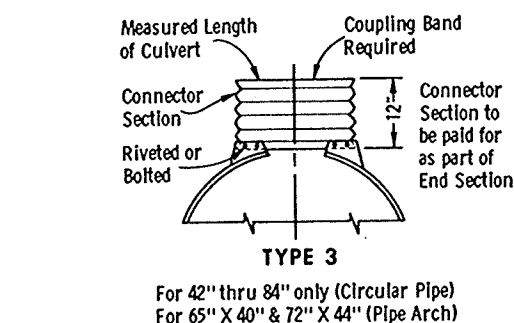
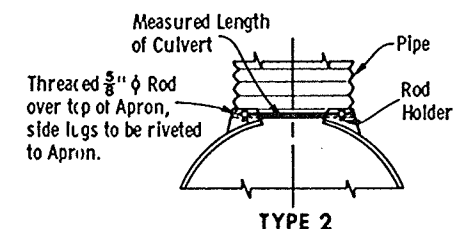
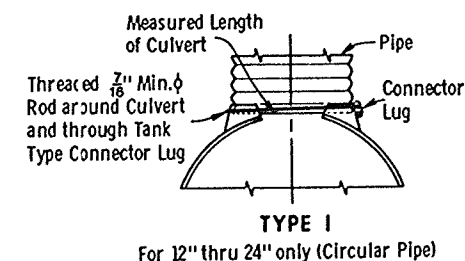
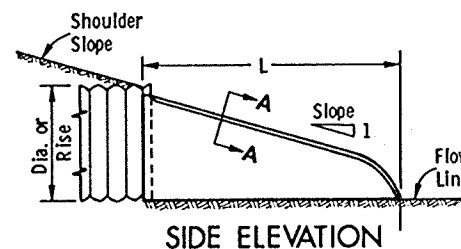
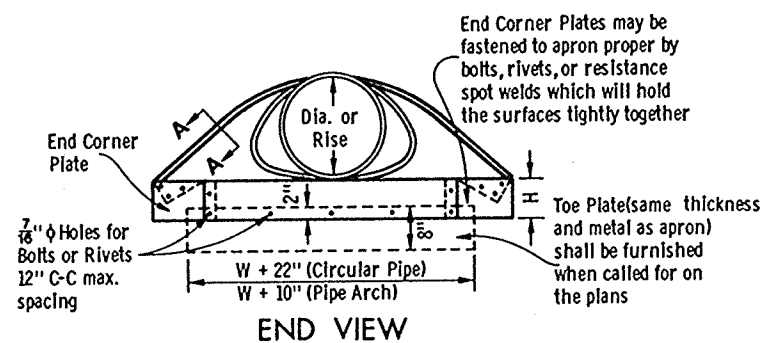
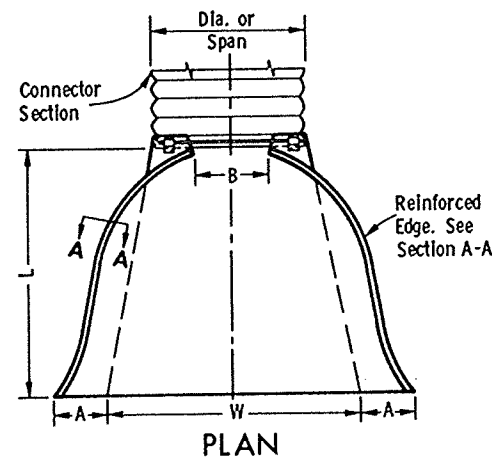
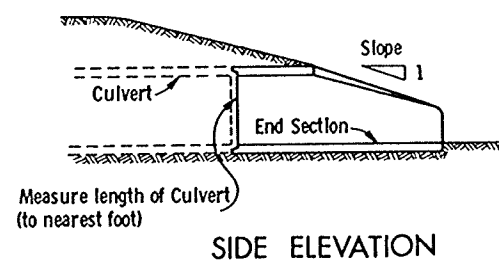
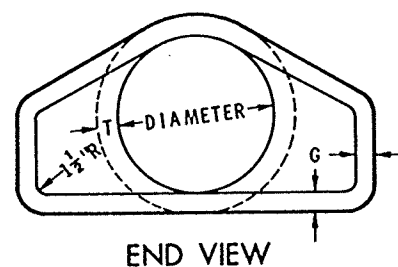
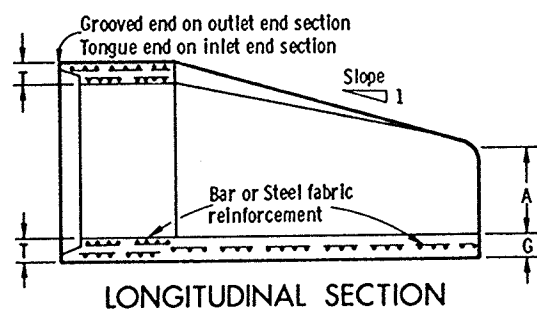
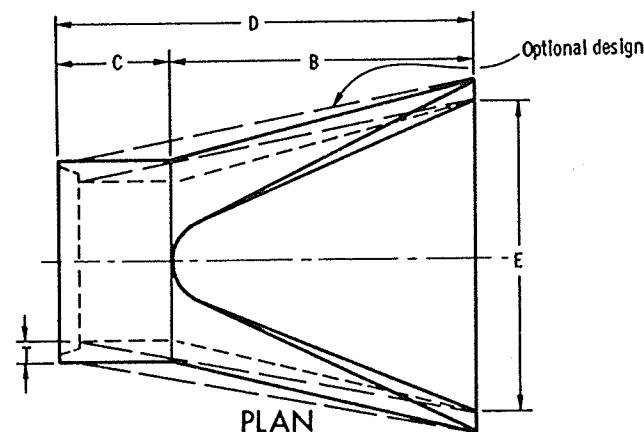
BENCH MARKS			
NO.	STATION	DESCRIPTION	ELEV.
30	215+13	SPIKE IN 18" APPLE	25 LT. 776.30
31	219+46	SPIKE IN 9" CHERRY	42 LT. 776.38
32	225+31	SPIKE IN P. POLE	27 RT. 773.24
33	229+60	SPIKE IN 36" ELM	CENTERLINE EXTENDED 25 LT. 775.05

STATE PROJECT NUMBER	SHEET NO.
6057 - 1 - 71,72	5.4



END PROJECT 6057-1-71,72
STA. 225 + 30





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

** Minimum
* Maximum

REINFORCED CONCRETE APRON ENDWALLS

D PIPE DIAM.	MIN. METAL THICKNESS	MIN. ALUM. THICKNESS	DIMENSIONS					APPROX. SLOPE
			A ± 1"	B MAX.	H ± 1"	L ± 1 1/2"	W ± 2"	
12"	0.064	0.060	6"	6"	6"	21"	24"	2 1/2 to 1
15"			7"	8"		26"	30"	
18"			8"	10"		31"	36"	
21"		0.060	9"	12"		36"	42"	
24"	0.064	0.075	10"	13"	6"	41"	48"	
30"	0.079	0.075	12"	16"	8"	51"	60"	
36"	0.079	0.105	14"	19"	9"	60"	72"	
42"	0.109		16"	22"	11"	69"	84"	2 1/2 to 1
48"			18"	27"	12"	78"	90"	2 1/4 to 1
54"		0.105	30"			84"	102"	2 to 1
60"		NA	33"			87"	114"	1 3/4 to 1
66"			36"			87"	120"	1 1/2 to 1
72"			39"			87"	126"	1 1/2 to 1
78"			42"			87"	132"	1 1/4 to 1
84"	0.109	NA	45"	12"		87"	138"	1 1/8 to 1

NOTE: All splices to be lap riveted or bolted

METAL OR ALUMINUM APRON ENDWALLS FOR CIRCULAR PIPES

PIPE — ARCH DIMENSIONS		MIN. METAL THICK.	DIMENSIONS					APPROX. SLOPE
SPAN	RISE		A ± 1"	B MAX.	H ± 1"	L ± 1½"	W ± 2"	
18"	11"	0.064	7"	9"	6"	19"	30"	2½ to
22"	13"	↑	7"	10"	↑	23"	36"	↑
25"	16"	↑	8"	12"	↑	28"	42"	↑
29"	18"	0.064	9"	14"	↑	32"	48"	↑
36"	22"	0.079	10"	16"	6"	39"	60"	↑
43"	27"	0.079	12"	18"	8"	46"	75"	↑
50"	31"	0.109	13"	21"	9"	53"	85"	↑
58"	36"	↑	18"	26"	12"	63"	90"	2½ to
65"	40"	↑	18"	30"	12"	70"	102"	2¼ to
72"	44"	↑	18"	33"	12"	77"	114"	2¼ to
79"	49"	↑	18"	36"	12"	77"	126"	2 to 1
85"	54"	0.109	18"	39"	12"	77"	138"	2 to 1

NOTE: All splices to be lap riveted or bolted

METAL APRON ENDWALLS FOR PIPE ARCHES

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

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

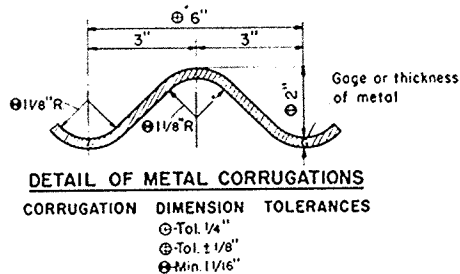
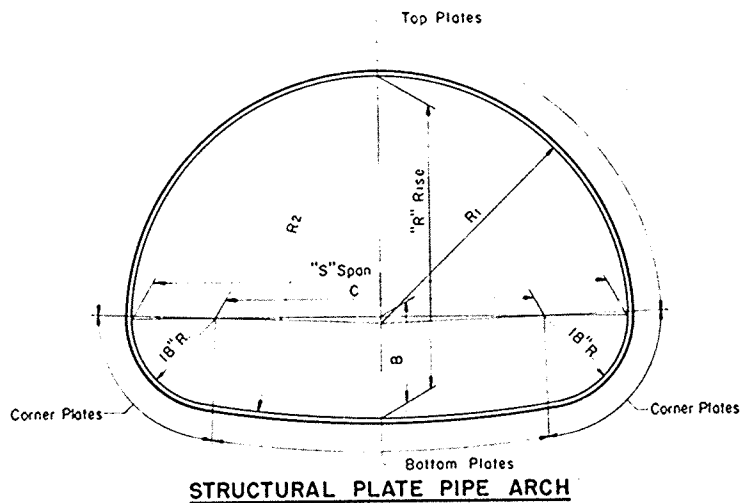
State of Wisconsin
Department of Transportation
Division of Highways

RECOMMENDED FOR APPROVAL
2-21-74
DATE

J.C. McDaniel
CHIEF OF FACILITIES DEVELOPMENT

APPROVED
2-21-74
DATE

W. J. Siddle
STATE HIGHWAY ENGINEER



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 $\frac{1}{2}$ 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 $\frac{1}{2}$ 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.

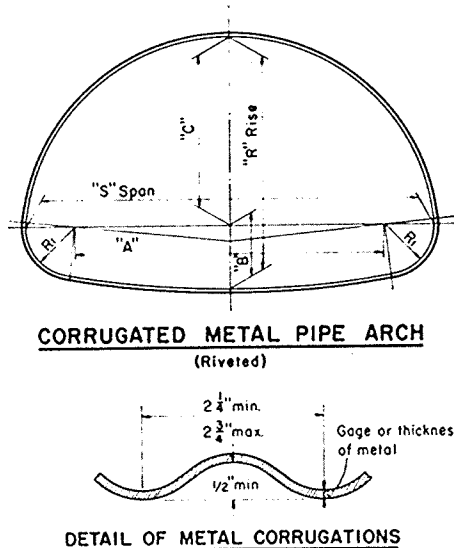
Strutting of Pipe Arches will not be required during construction unless specifically called for on the plans or the applicable Special Provisions.

TABLE OF PROPERTIES
STRUCTURAL PLATE PIPE ARCH

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

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

STRUCTURAL PLATE PIPE ARCH



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 obtained.

EMBANKMENT—Minimum for $\frac{1}{2}$ 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 maximum of 3" cushion between pipe and pavement.

EMBANKMENT—Maximum for $\frac{1}{2}$ 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 ₁ 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

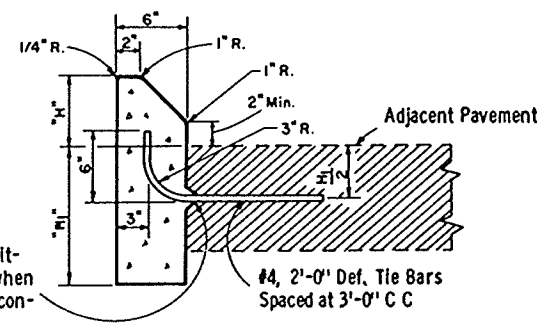
DATE 2-5-63

APPROVED

DATE 2/6/63

ENGINEER OF DESIGN

STATE HIGHWAY ENGINEER



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)

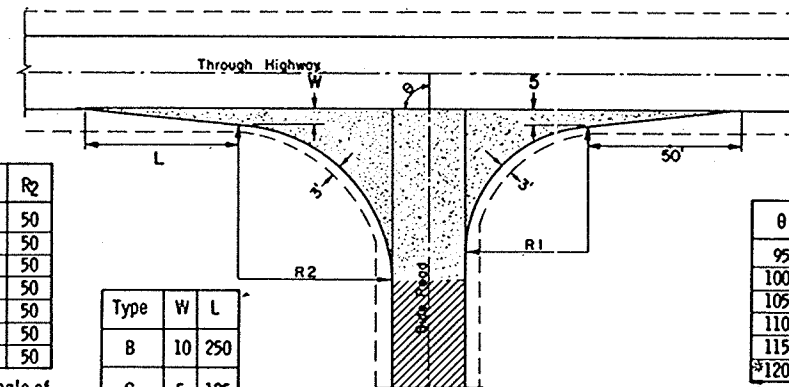
θ	G	K	B	V	H	X	Y	P	M
90	90	43.8	33.9	156.0	94	48.0	11.0	125.0	44.2
95	94	46.7	34.0	156.7	96	47.0	11.0	121.3	41.9
100	98	50.0	34.4	157.4	98	45.9	11.0	117.7	39.7
105	102	53.8	35.2	158.3	100	44.9	11.2	114.2	37.8
110	106	58.2	36.4	159.2	102	43.7	11.4	110.6	36.2
115	110	63.4	38.4	161.8	104	42.6	11.7	107.1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

*Maximum angle of intersection

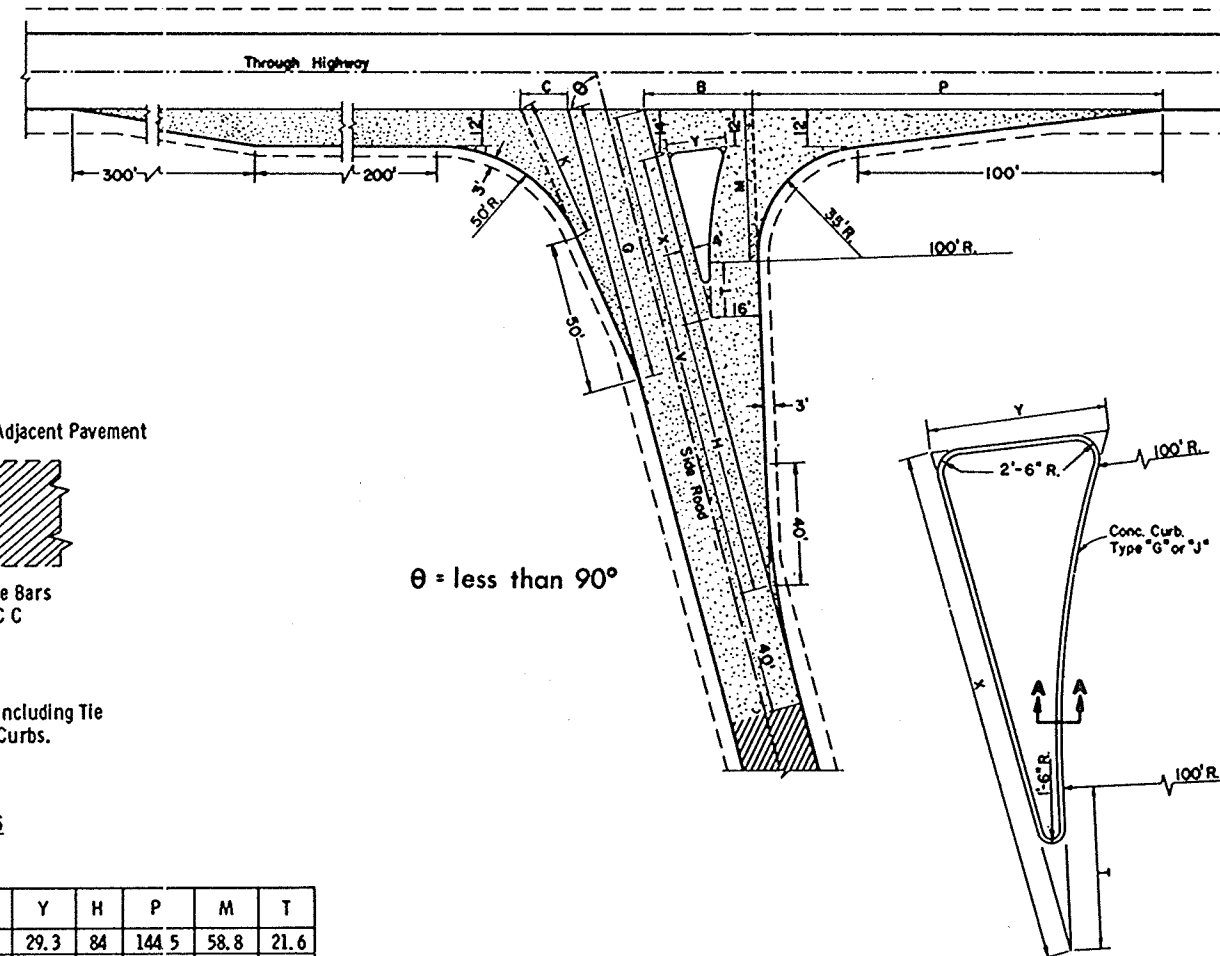
Θ	C	G	K	B	V	X	Y	H	P	M	T	
#60	19.7	76.3	38.6	41.5	169.9	67.4	29.3	84	144	5	58.8	21.6
65	17.8	82.6	40.6	39.4	166.9	63.6	25.0	86	141	2	54.9	20.7
70	15.8	87.2	43.1	37.4	164.1	59.7	21.9	88	136	8	51.4	19.2
75	15.7	90.9	45.6	35.7	161.4	55.9	19.3	90	132	7	48.2	17.4
80	15.9	94.9	48.3	34.4	158.9	51.9	17.0	92	128	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



TYPE "B" & "C" 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

LAYOUT DETAILS FOR AT-GRADE SIDE ROAD INTERSECTIONS

State of Wisconsin
Department of Transportation
Division of Highways

RECOMMENDED FOR APPROVAL:

4-11-73
DATE

APPROVED

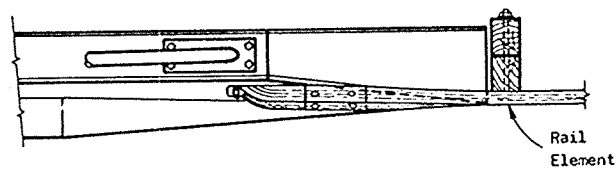
4-17-73

J. C. Herndon
CHIEF OF FACILITIES DEVELOPMENT

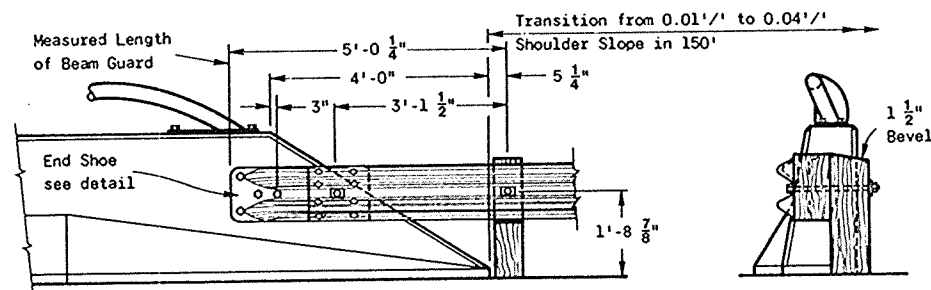
15

G. S. Fiedler

S.D.D. 9A1-2



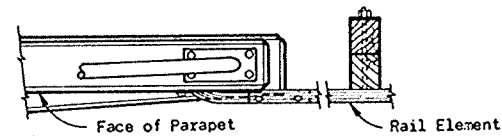
PLAN VIEW



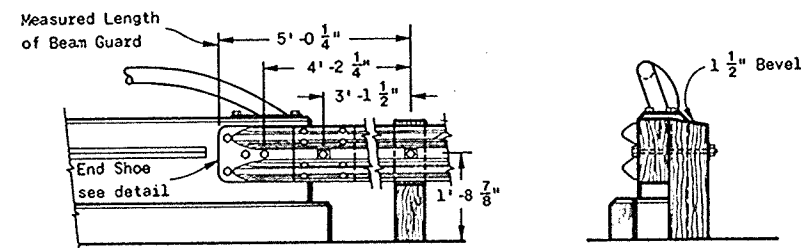
FRONT ELEVATION

END ELEVATION

STRUCTURE MOUNTING DETAIL
SLOPING TYPE PARAPET WALL



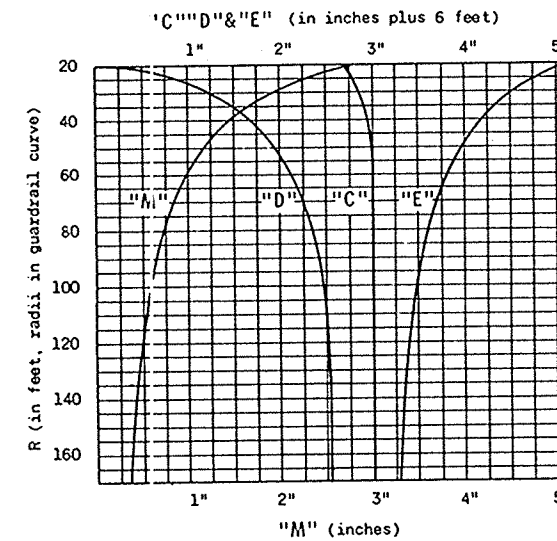
PLAN VIEW



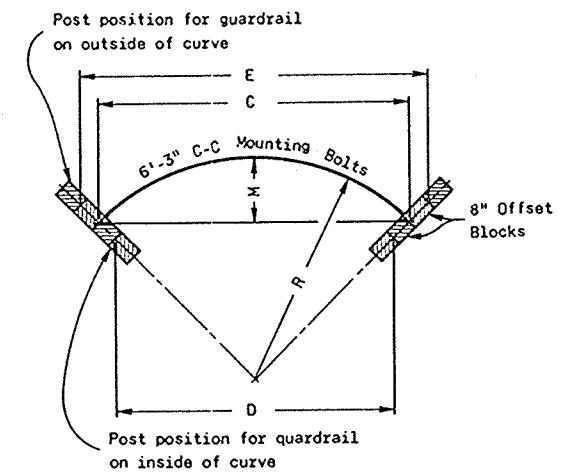
FRONT ELEVATION

END ELEVATION

STRUCTURE MOUNTING DETAIL
VERTICAL TYPE PARAPET WALL



CURVE DATA FOR POST SPACING AND BEAM CURVING



CHORD LENGTHS FOR POST SPACING AND MIDDLE ORDINATES FOR BEAM CURVING

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.

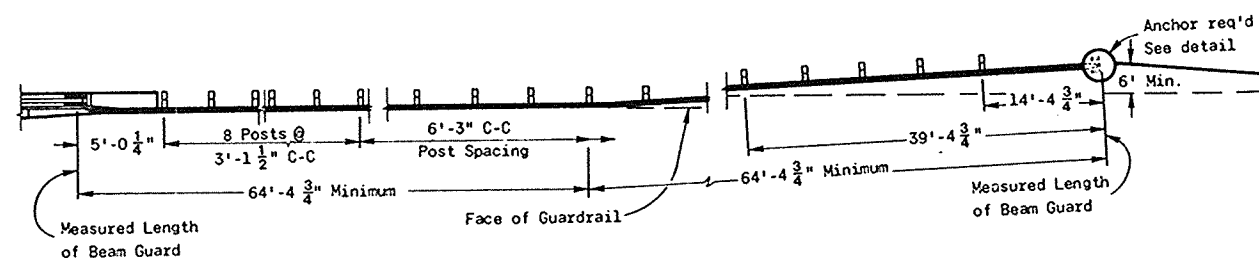
The shoulder widening to accommodate the anchored end of the guardrail shall be accomplished at the rate of widening not to exceed 15 to 1.

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.

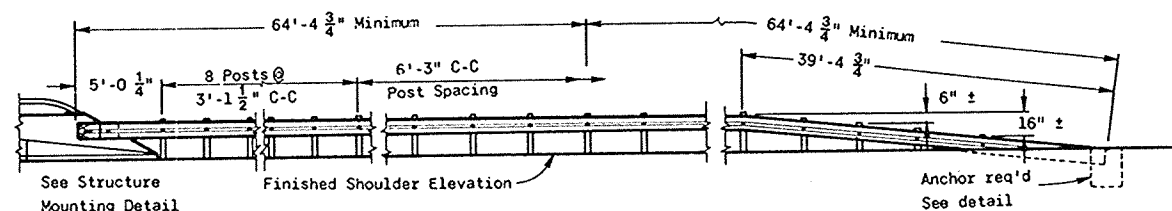
The minimum clearance from the front face of guardrail to obstacle shall be 3 feet unless otherwise shown on contract plans. When clearance is less than 3 feet post spacing shall be reduced to 3 feet - 1 1/2 inches C.C.

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.

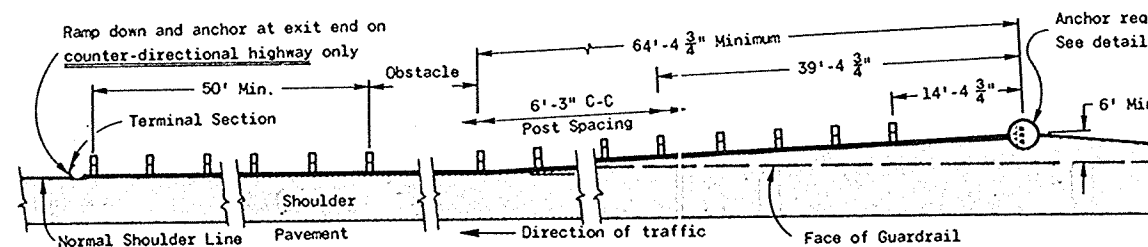


PLAN VIEW



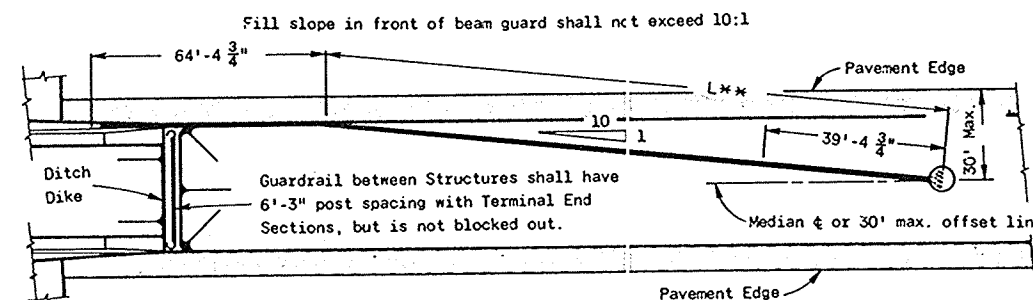
FRONT ELEVATION

TYPICAL INSTALLATION AT STRUCTURES



PLAN VIEW

TYPICAL INSTALLATION AT
LOCATIONS OTHER THAN STRUCTURES



PLAN VIEW

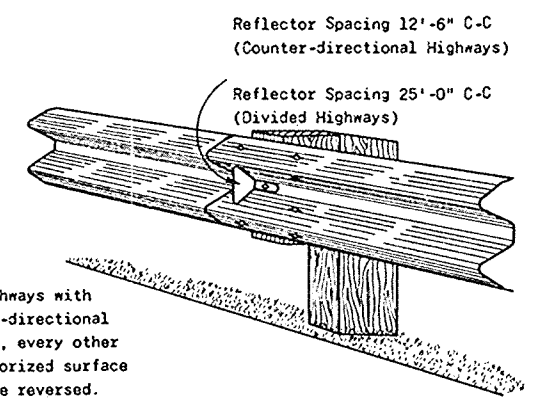
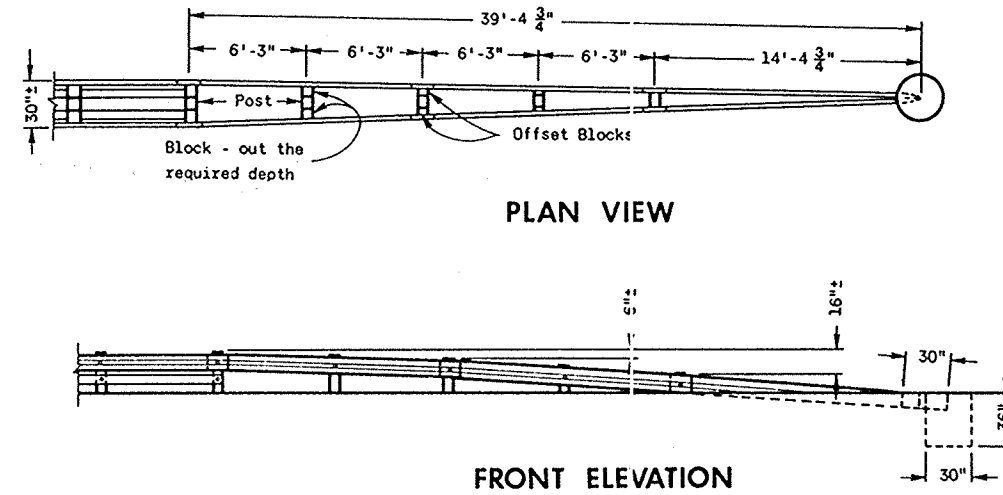
MEDIAN PROTECTION

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

State of Wisconsin
Department of Transportation
Division of Highways

S.D.D. 14 B 2-3a

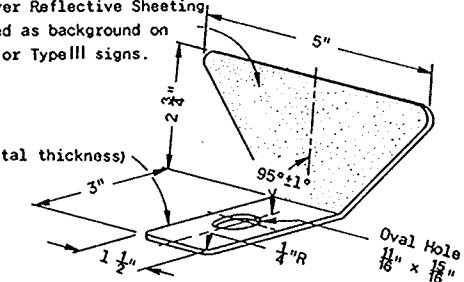
Sawn and treated timber posts and offset blocks shall be furnished and placed in accordance with Standard Specifications. Posts shall be 6" x 8" x 6'-6" and have 6" x 8" x 14" offset blocks.



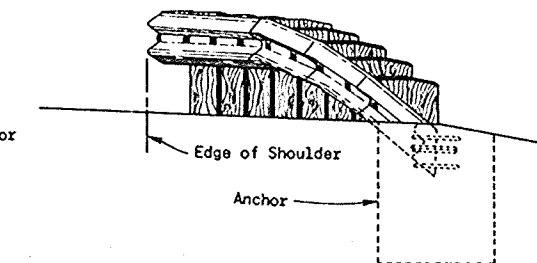
NOTE:
For highways with counter-directional traffic, every other reflectorized surface shall be reversed.

TYPICAL INSTALLATION

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



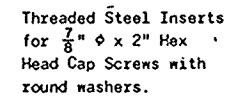
REFLECTOR DETAIL



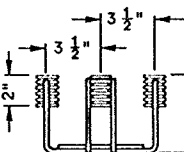
TYPICAL TERMINAL END ELEVATION

NOTE:
THIS STANDARD DETAIL DRAWING CONSISTS
OF TWO PLATES, AND BOTH PLATES ARE
REQUIRED WHEN THIS STANDARD IS CALLED
FOR IN THE PLANS.

END ELEVATION
STEEL PLATE BEAM MEDIAN GUARD
E BEAM MEDIAN GUARD

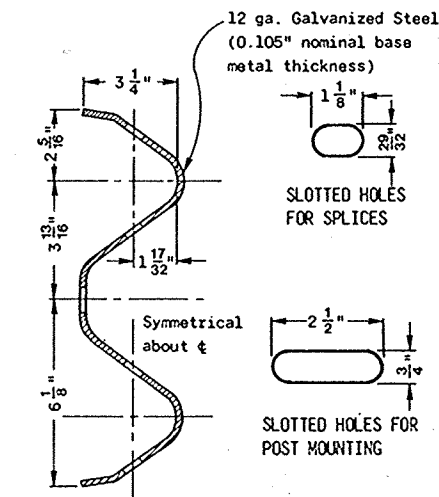


PLAN VIEW

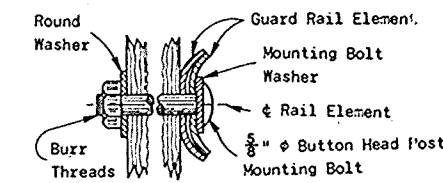


**ELEVATION
4 BOLT INSERT
ASSEMBLY**

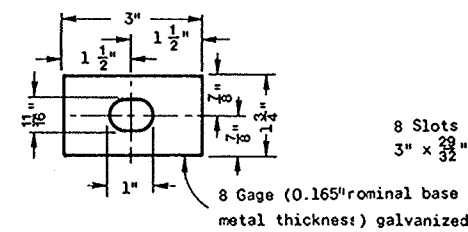
NOTE: Installation of 4 Bolt
Insert Assembly (with Cap
Screws inserted) to be part
of Bridge Contract.



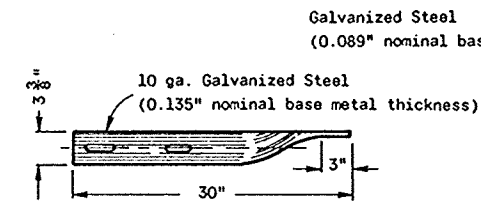
SECTION THRU RAIL ELEMENT



MOUNTING BOLT DETAIL



MOUNTING BOLT WASHER



END SHOE DETAIL

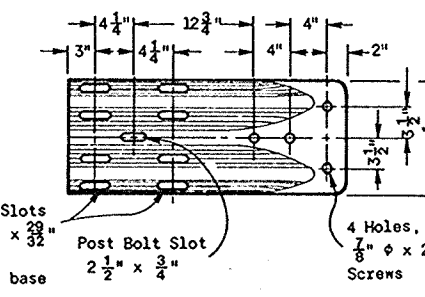
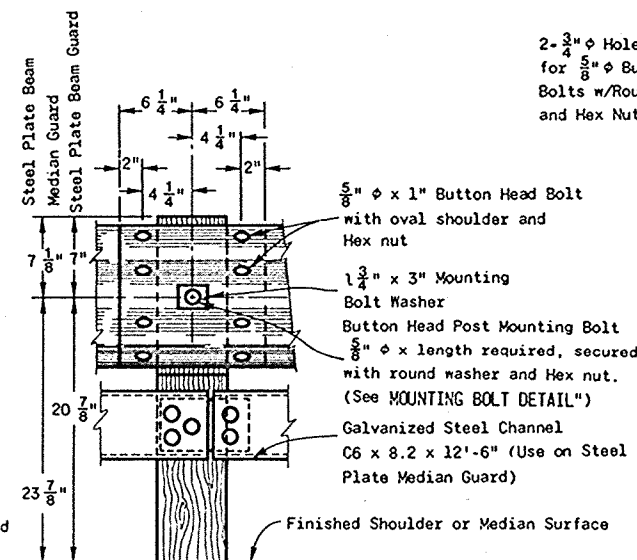
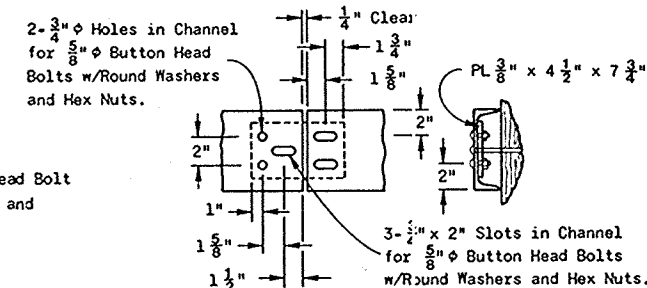


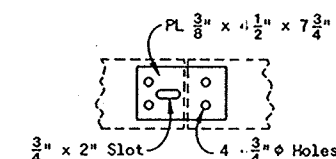
Diagram illustrating the installation of a rail element into a concrete anchor. The rail element is 15" long. The concrete anchor is 36" long. A 2" Min. Clearance is required between the rail element and the concrete anchor. The diagram also shows the installation of button head bolts with nuts on the outside face of the splice for double rail element installation only.



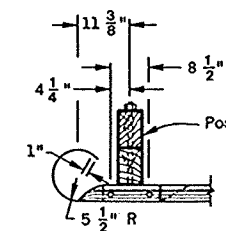
RAIL ELEMENT SPLICING AND POST MOUNTING DETAIL



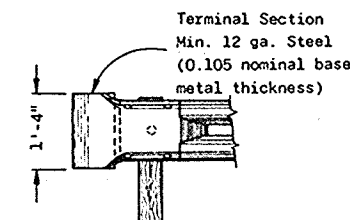
RUB RAIL SPLICE DETAIL



SPLICE PLATE



PLAN VIEW



FRONT ELEVATION
TERMINAL SECTION DETAILS

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

State of Wisconsin
Department of Transportation
Division of Highways

RECOMMENDED FOR APPROVAL:

10-29-73

DATE _____

APPROVED _____

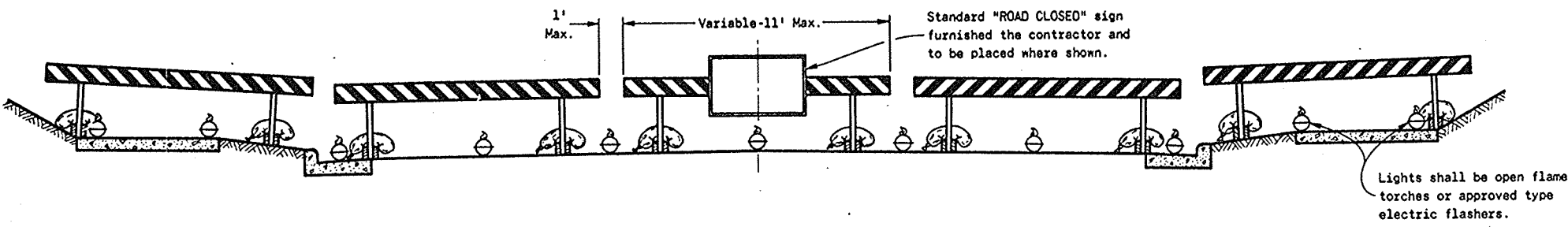
10-29-73

L. C. Thermal

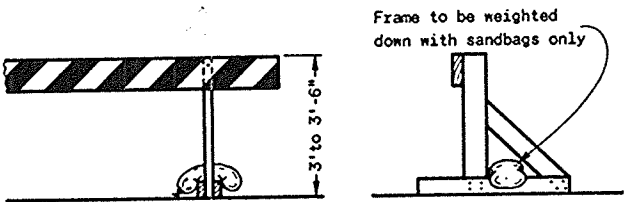
CHIEF OF FACILITIES DEVELOPMENT

Yb Fiedler

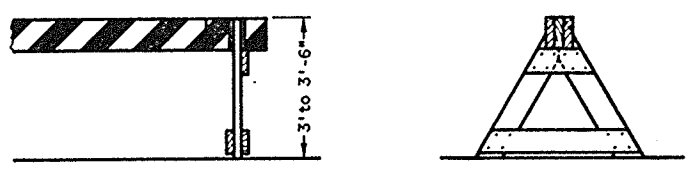
S.D.D. 14 B 2-3b



TYPICAL INSTALLATION SHOWING RIGID BARRICADES

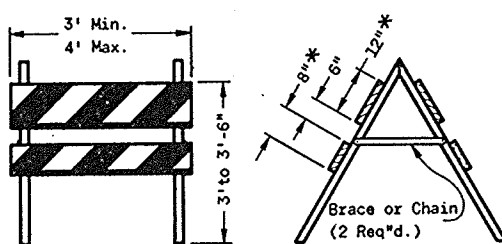


ALTERNATE TYPE INSTALLATION (RIGID)

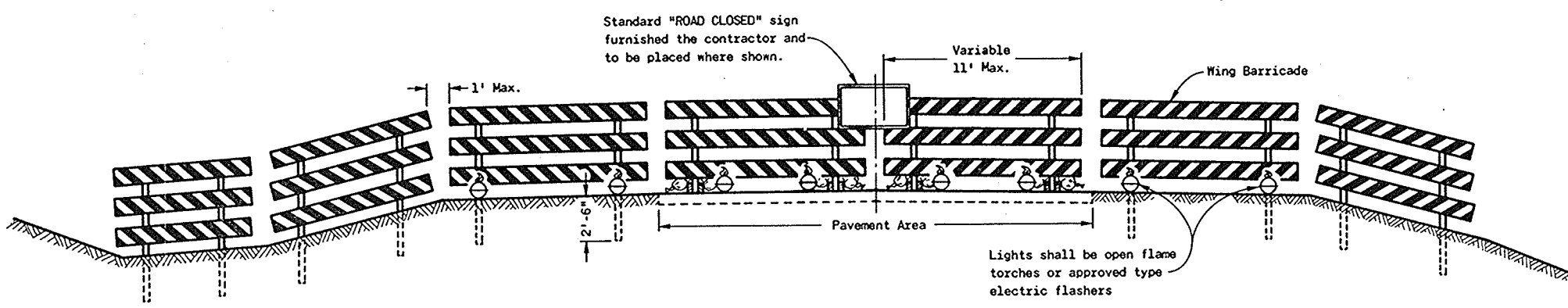


ALTERNATE TYPE INSTALLATION (DEMOUNTABLE)

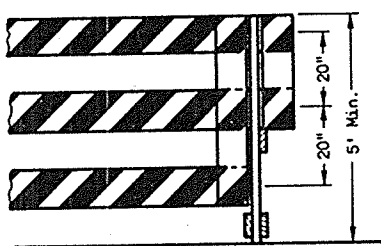
CLASS I BARRICADES



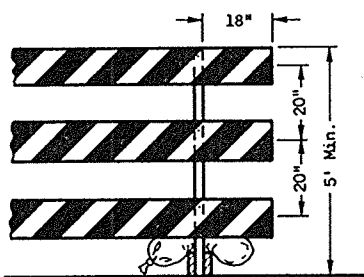
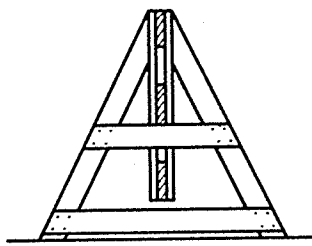
CLASS II BARRICADE



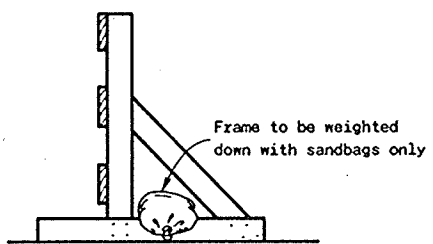
TYPICAL INSTALLATION SHOWING FIXED AND RIGID BARRICADES



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 verticle 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.

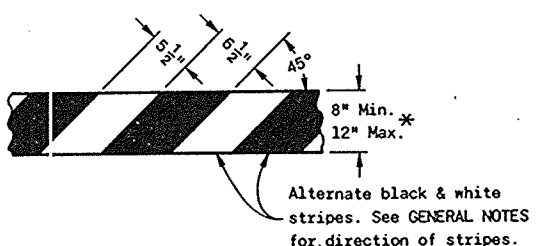
PAINTING:
All barricades shall have alternate 6 1/2 inch black and 5 1/2 inch white stripes at a 45 degree angle. Black stripes shall be painted with weather resistant and durable black paint. White stripes shall be primed, followed by a coat of white reflectorized paint or shall consist of reflective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

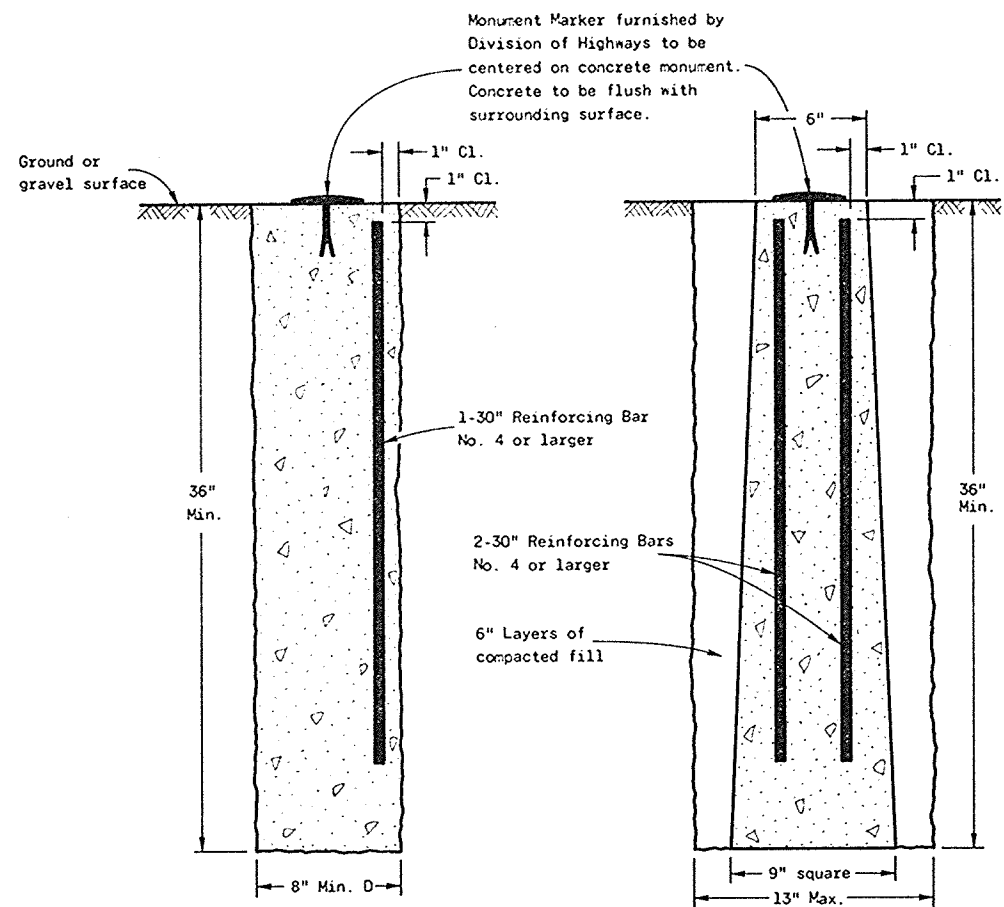
* Nominal dimensions when barricade is constructed of lumber.



TYPICAL RAIL

Applies to all Classes & Alternate Types of Barricades

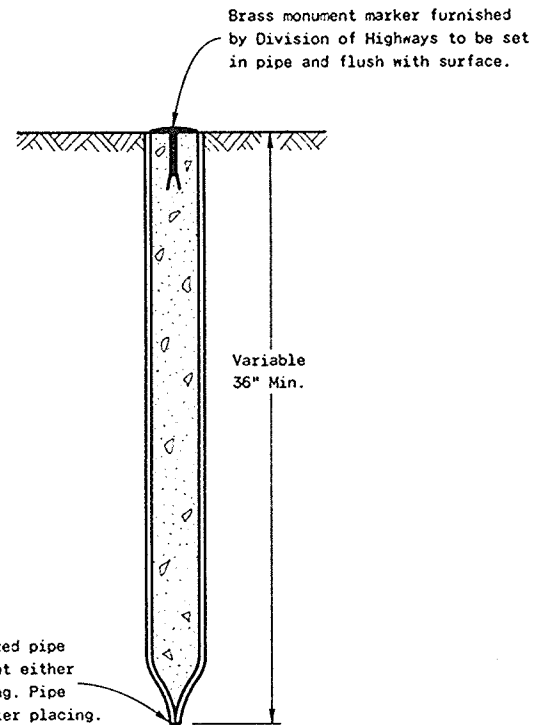
CONSTRUCTION BARRICADE	
State of Wisconsin Department of Transportation Division of Highways	
RECOMMENDED FOR APPROVAL: DATE 6-7-72	<i>L. C. Hennrich</i> CHIEF DESIGN ENGINEER
APPROVED: DATE 6-9-72	<i>S. E. Hicks</i> STATE HIGHWAY ENGINEER



**CAST-IN-PLACE
CONCRETE MONUMENT**

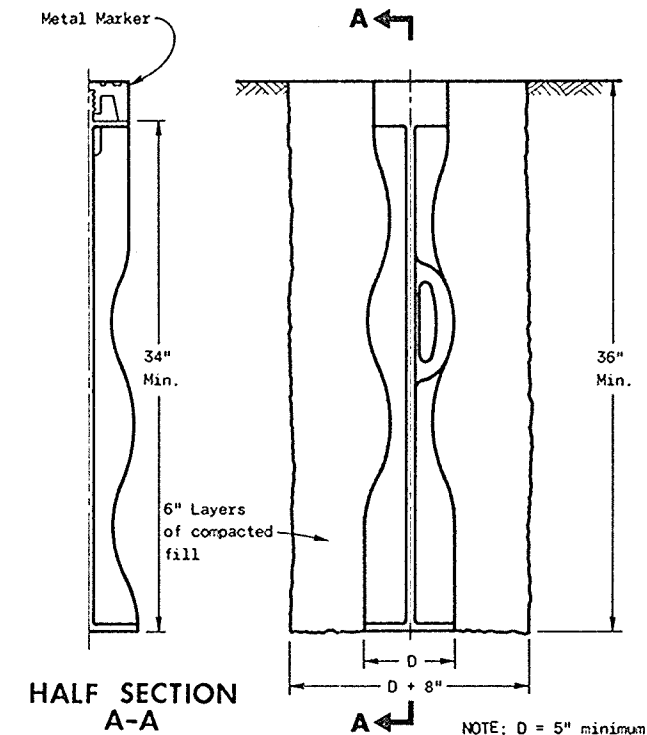
**PRECAST
CONCRETE MONUMENT**

TYPE A



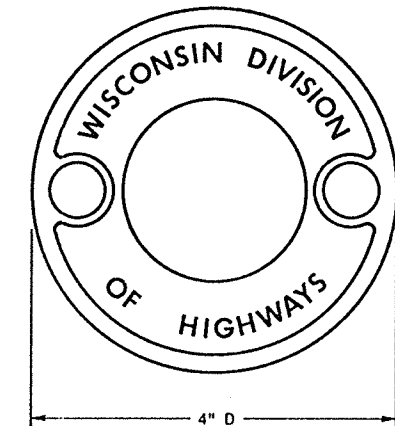
TYPE B

NOT TO BE USED IN PAVEMENT STRUCTURE

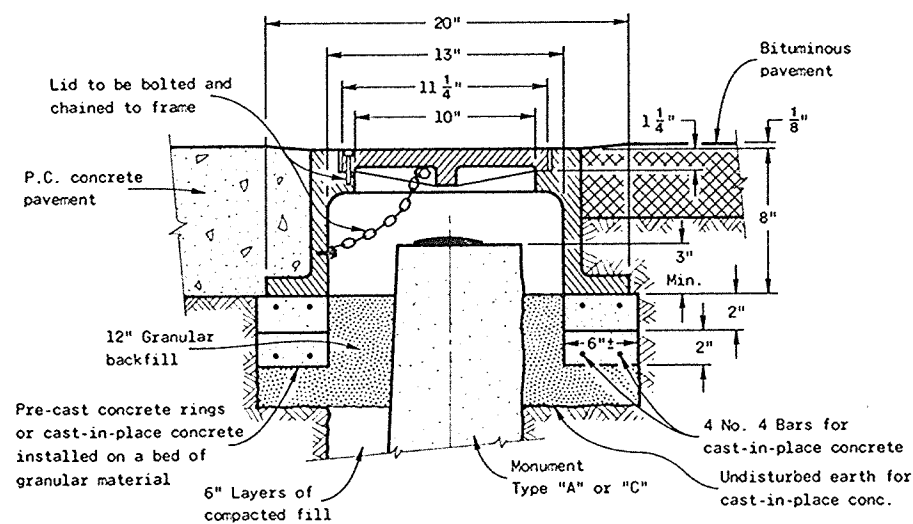


METAL MONUMENT
(Includes Marker)

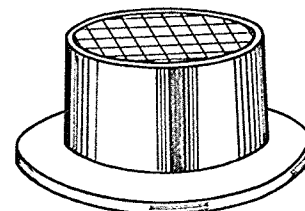
TYPE C



TOP LEGEND FOR MARKER



DETAIL OF MONUMENT COVER
INSTALLATION IN PAVEMENT OVER A MONUMENT



(Approximate weight - 95 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 of proposed alternate designs for Metal Monuments or Monument Covers shall be submitted to the Engineer for approval.

The installed Metal Monument must be easily detected with a dip needle. Inert permanent magnets shall be attached near the top and bottom of those Monuments constructed of a metal alloy which is not attractive to a dip needle.

Type A and Type C Monuments are equal alternates unless otherwise specified on the plan or by special provision.

When Landmark Reference Monument and Cover is specified, contractor shall furnish and install Monument and Monument Cover in conformance with details on this drawing and pertinent requirements of Section 611 of the Standard Specifications.

The Monument Cover shall be a "Non-Rocking" type. Adjustment of the Cover to grade may be accomplished by the use of mortar and brick, or by either pre-cast or cast-in-place Reinforced Concrete Grade Rings.

Monuments shall be located and placed at the direction of the Engineer.

**LANDMARK REFERENCE
MONUMENTS**

State of Wisconsin
Department of Transportation
Division of Highways

RECOMMENDED FOR APPROVAL
DATE 2-15-74

J.C. Henrich
CHIEF OF FACILITIES DEVELOPMENT

APPROVED
DATE 3-21-74

W.F. Sedler
STATE HIGHWAY ENGINEER

SURVEY 1
8
CONSTRUCTION R.L.

DIST. REGION DIVISION	PROJECT	SHEET NUMBER
5 WIS	6057-1-71,72	8

STATION	DISTANCE	YARDAGE	
		EXCAVATION	FILL
UNCL			
100			
+30			
101			
102			
103			
104			
105			
106			

SHEET TOTAL 1,256 167

1 - OS HOR
1 - OS VER
3601 1

ROW 1 SPRUCE

01-2' BALSAM

47-1' BALSAM

SURVEY 1
8
CONSTRUCTION R.L.

114+00
795

113+00
795

112+00
795

111+00
800

110+00
800

109+00
800

108+00
800

107+00
805

TMA REGION DIVISION		PROJECT			SHEET NUMBER
S WIS		6057-1-71.72			8/
STATION	DISTANCE	YARDAGE			
		EXCAVATION			FILL
		UNCL			
106		169			32
107		87			48
108		111			61
09		107			91
10		83			130
11		111			128
12		157			104
13		117			143
14					

SHEET TOTAL

942

737

1 * OS HOR
1 * OS VER
3601 2

SURVEY T.
8
CONSTRUCTION R.L.

DIVISION		PROJECT	SHEET NUMBER
5 WIS		6067-1-71, 72	82
STATION	DISTANCE	CUBIC YARDS	
		EXCAVATION	FILL
114			
115		43	222
116		41	217
117		80	128
118		96	85
119		80	80
120		80	70
121		102	69
122		130	56
SHEET TOTAL		652	927

0+32-ARTISIAN WELL

1 - OS HOR
1 - OS VER
3601 3

SURVEY 1
&
CONSTRUCTION RL

PARA REGION
DIVISION
S
HIS

PROJECT
6057-1-71,72

SHEET
NUMBER
8.3

STATION	DISTANCE	YARDAGE		
		EXCAVATION		FILL
		UNCL		
122	141			39
123	154			28
124	217			17
125	224			28
126	135			78
127	85			102
128	163			72
129				

SHEET
TOTAL

1,119

364

1 * OS HOR
1 * OS VER
3501 4

+49-50' MAPLE
+26-36' MAPLE
+08-14' CEDAR
+27-31' BUSHES
+43-2' APPLE
SHRUBS +27

O +65 - ARTISIAN WELL

783.1

783.4

783.7

783.3

129+00

785

126+00

780

127+00

785

126+00

785

125+00

790

124+00

790

123+00

790

SURVEY I.
&
CONSTRUCTION R.L.

PAR REGION DIVISION	PROJECT	SHEET NUMBER
5 HIS	6057-1-71,72	8.4

STATION	DISTANCE	YARDAGE	
		EXCAVATION	FILL
		UNCL.	
129		254	54
130		237	43
131		183	61
132		109	159
133		22	367
134		2	341
+ 60			248
135			465
136			

SHEET TOTAL	817	1738
----------------	-----	------

1 - OS HOR
1 - OS VER
3801 5

SURVEY T
&
CONSTRUCTION RL

144+00

785

143+00

785

142+00

785

141+00

785

140+00

785

139+00

785

138+00

785

137+00

785

136+00

780

PMR REGION DIVISION	PROJECT	SHEET NUMBER
5 WIS	6057-1-71,72	8.5

STATION	DISTANCE	YARDAGE			
		EXCAVATION		FILL	
		UNCL			
135					
137		6			239
138		41			109
139		54			72
140		54			74
141		80			52
142		139			32
143		200			30
144		157			39

SHEET TOTAL

741

647

1 - OS HOR
1 - OS VER
3601 6

50

25

25

50

50

25

25

50

+35-12" MAPLE
+05-20" STUMP
+85-22" STUMP

+72-3" APPLE

+85-10" BUSH

+55-11" ASH
+55-10" PINE

+86-5" SPRUCE
+51-42" B.E.

+09-2" MAPLE

+98-18" APPLE

+36-3" B.E.

+09-3" B.E.

+68-2" APPLE

+71-10" BIRCH

+28-4" SPRUCE

+14-21" ELM

782.8

782.8

782.4

782.6

782.0

782.4

781.6

782.2

781.2

782.0

SURVEY I
&
CONSTRUCTION R.L.

TMA REGION DIVISION		PROJECT			SHEET NUMBER
5 MIS		6057-1-71,72			8.6
STATION	DISTANCE	YARDAGE			
		EXCAVATION			FILL
		UNCL			
144		124			48
145		132			44
146		96			94
147		76			224
148		85			324
149		37			409
150					385
151					

SHEET TOTAL 550 1,588

1 - OS HOR
1 - OS VER
3601 7

SURVEY 1
8
CONSTRUCTION RL

158+80
785

AREA REGION DIVISION	PROJECT	SHEET NUMBER
WIS	6057-1-71.72	8.7

STATION	DISTANCE	YARDAGE			
		EXCAVATION			FILL
		UNCL			
151					248
152		2			146
153		24			87
154		54			74
155		67			59
156		148			39
157		367			17
158		500			2
+80					

SHEET
TOTAL 1,162 672

1 - OS HOR
1 - OS VER
3601 8

SURVEY 1
8
CONSTRUCTION RL

AREA REGION DIVISION	PROJECT	SHEET NUMBER
5 NIS	6057-1-71,72	8.8

STATION	DISTANCE	YARDAGE			
		EXCAVATION			FILL
164+00	780				
158+80		37			
159		119			
163+00	785	235			
159		35			
160		411			
161		598			
162		654			
163		704			
164		600			2

SHEET TOTAL	3,393	2
-------------	-------	---

1" = .05' HOR
1" = .05' VER
3601 9

SURVEY 1
8
CONSTRUCTION RL

TRANS. REGION DIVISION	PROJECT	SHEET NUMBER
5 KIS	8057-1-71,72	8.9

STATION	DISTANCE	YARDAGE	
		EXCAVATION	FILL
164		404	9
165		294	17
166		261	22
167		224	32
168		204	32
169		263	24
170		313	26
171			

SHEET TOTAL		1963	162
-------------	--	------	-----

14' BE DUMP

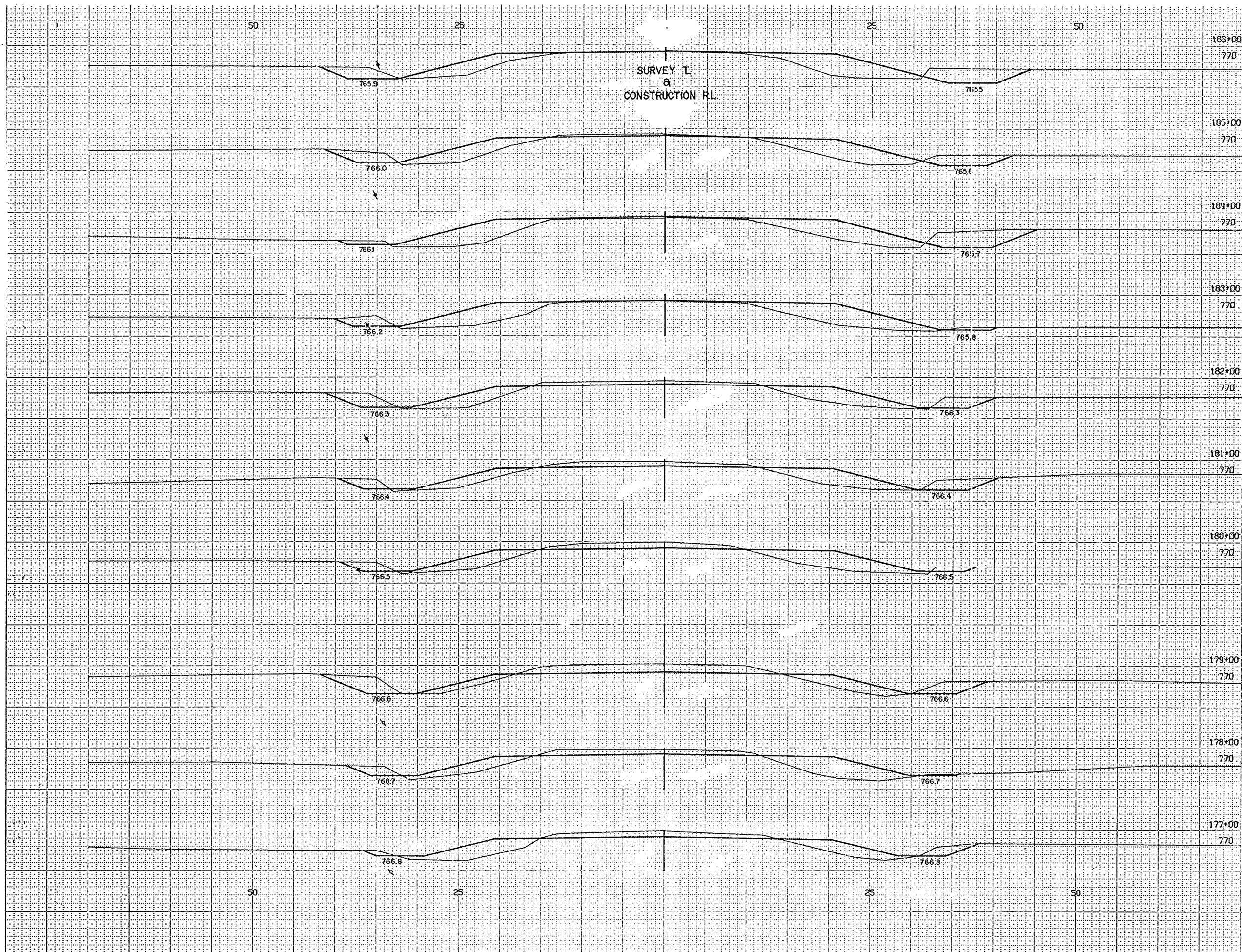
14' BE DUMP

1. 05 HOR
1. 05 VER
3601 10

SURVEY T
&
CONSTRUCTION RL

PARA REGION DIVISION		PROJECT		SHEET NUMBER
S WIS		6057-171, 72		810
STATION	DISTANCE	TRAPAGE		
		EXCAVATION		FALL
		UNCL		
171		267		35
172		59		16
+35		20		15
+57		19		41
173		35		120
174		85		118
175		118		119
176		102		135
177				

1 - OS HOR
1 - OS VER
3601 11



FHA REGION DIVISION		PROJECT	SHEET NUMBER
S HIS		6057-1-71.72	811
STATION	DISTANCE	YARDAGE	
		EXCAVATION	FILL
177		87	46
178		131	122
179		132	117
180		96	41
181		109	130
182		70	181
183		57	239
184		91	211
185		98	189
186			
SHEET TOTAL		871	1476

1 * OS HOR
1 * OS VER
3601 12

SURVEY T.
8
CONSTRUCTION R.L.

25/102

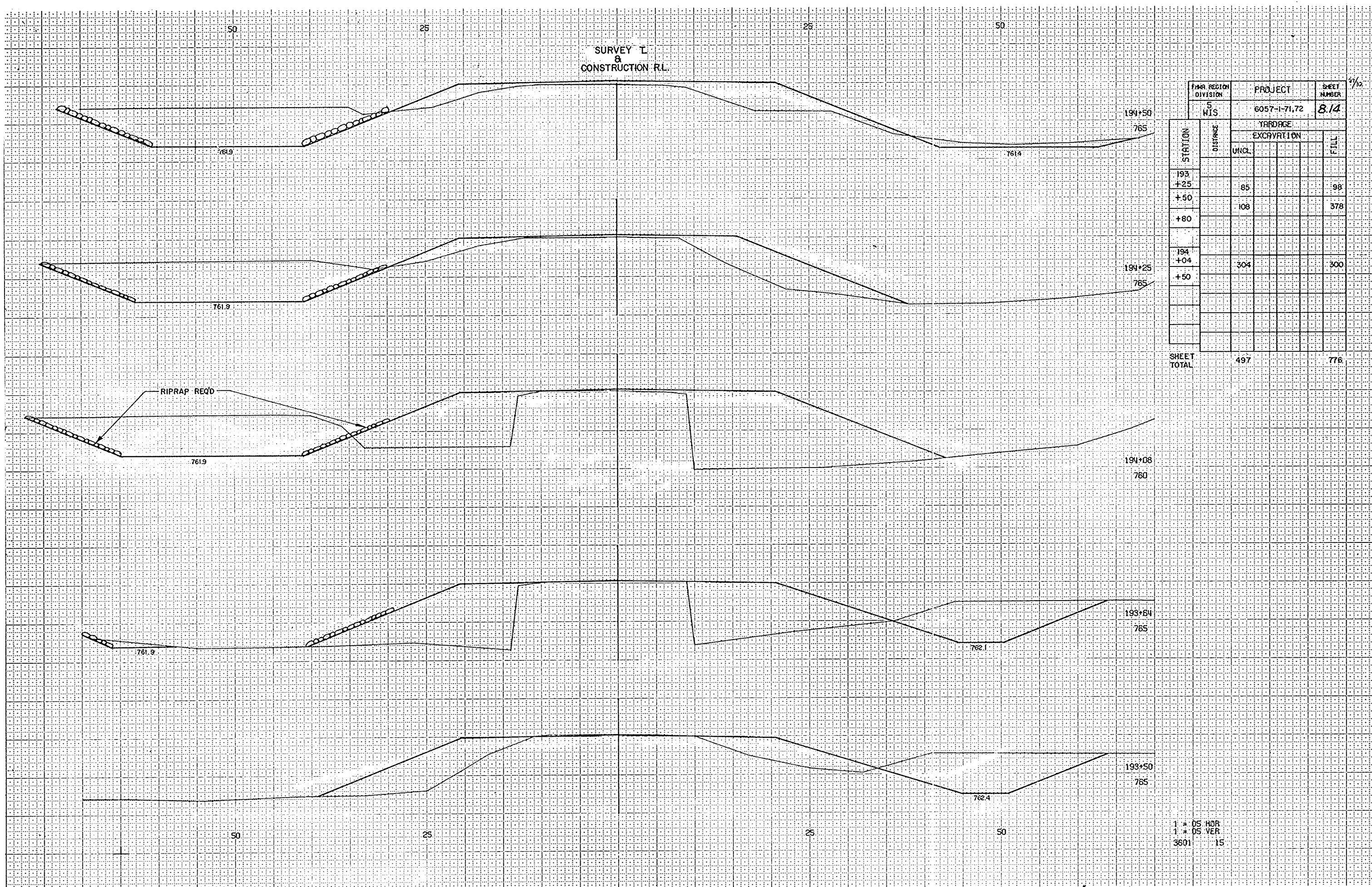
FHA REGION DIVISION		PROJECT			SHEET NUMBER
5 HIS		6057-1-71,72			B.12
STATION	DISTANCE	YARDAGE			
		EXCAVATION			FILL
	UNCL.				
186					
187		100			208
188		135			233
189		154			306
190		193			326
191		135			341
+50		154			139
191		148			137
+50					
SHEET TOTAL		1019			1490

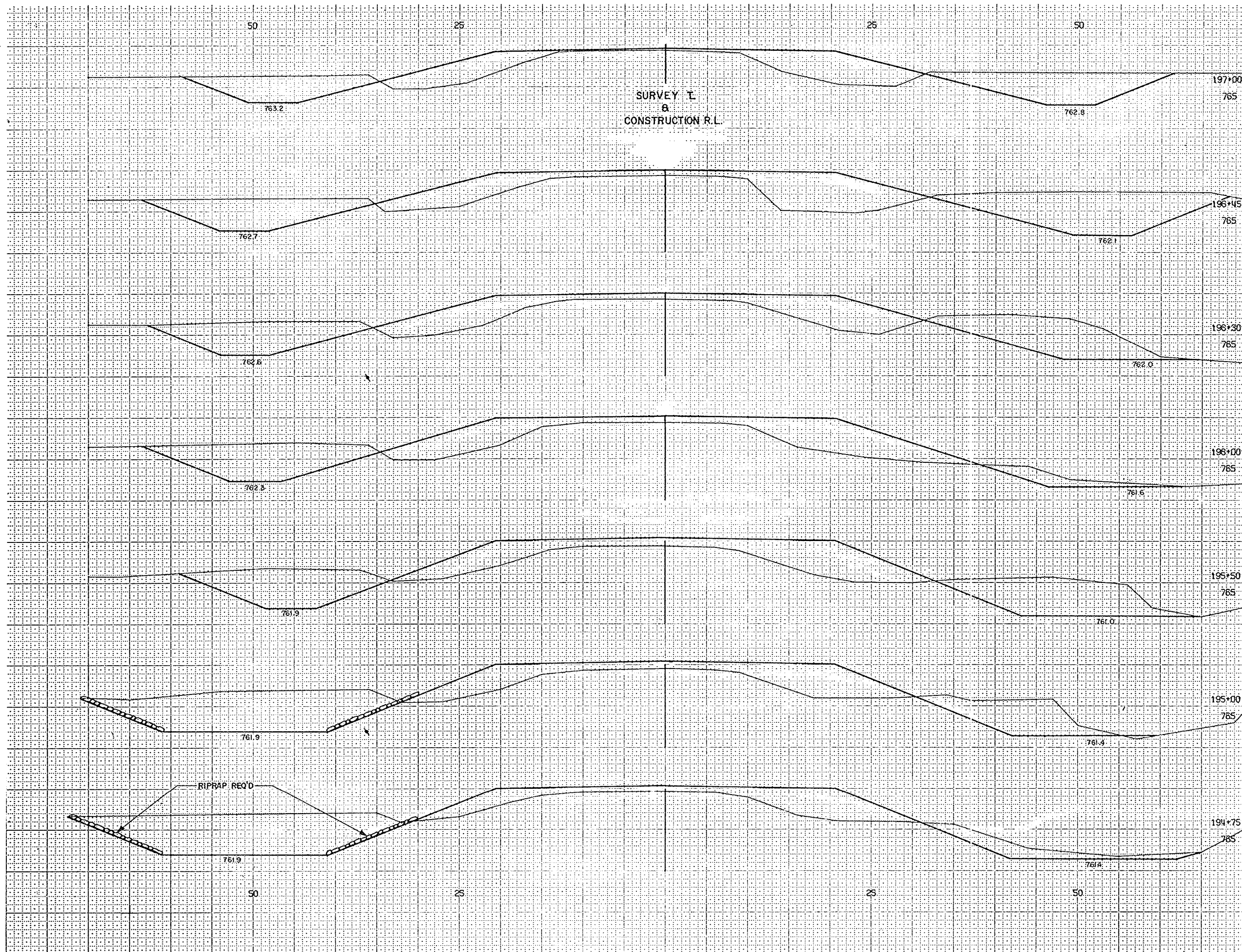
1. 05 HOR
1. 05 VER
3601 13

SURVEY I
&
CONSTRUCTION RL

FHA REGION DIVISION		PROJECT	SHEET NUMBER
5 WIS		6057-1-71,72	8/3
STATION	DISTANCE	TRAFFIC	
		EXCAVATION	FILL
191			
+50			
192		161	163
+25		98	94
+50		117	89
+75		122	87
193		122	85
+25		102	81
SHEET TOTAL		722	599

1 * DS HOR
1 * DS VER
3601 14





FINA REGION DIVISION		PROJECT		SHEET NUMBER	
5 WIS		6057-1-71,72		815	
STATION	DISTANCE	YARDAGE			
		EXCAVATION			FILL
		UNCL			
194 +50		168			80
195 +75		176			94
195 +30		217			126
195 +54		230			230
196 +30		144			144
196 +45		94			70
197		313			239
SHEET TOTAL		1,342			983

SURVEY L
&
CONSTRUCTION R.L.

29/22

FHA REGION		PROJECT		SHEET	
DIVISION				NUMBER	
5		6057-1-71,72		816	
NIS					
STATION	DISTANCE	YARDAGE			FILL
		EXCAVATION			
		UNCL.			
197					
198		370			344
		19			28
+07					
		54			230
+34					
		83			294
199					
		65			372
200					
		104			319
201					
		176			233
202					
SHEET TOTAL		871			1,820

1 - OS HDR
1 - OS VER
3601 17

SURVEY 1
8
CONSTRUCTION RL

HMA REGION DIVISION		PROJECT		SHEET NUMBER
S MIS		6057-1-71,72		817
STATION	DISTANCE	YARDAGE		
		EXCAVATION		
		UNCL.		FILL
202		159		2237
203		98		2285
204		78		278
205		46		243
206		72		174
207		181		93
208		187		81
209		78		115
210		91		87
211				
SHEET TOTAL		990		1593

1 - OS HOR
1 - OS VER
3601 18

SURVEY I
8
CONSTRUCTION R.L.

FINR REGION DIVISION	PROJECT	SHEET NUMBER
5 HIS	6057-1-71, 72	8/13

STATION	DISTANCE	YARDAGE				FILL
		EXCAVATION				
		UNCL				
211		194				2
212		311				5
213		372				4
214		335				6
215		230				17
216		130				4
217		102				5
218		117				4
219						

SHEET TOTAL 1,791 198

1 - OS HOR
1 - OS VER
3601 19

53+30 SHRUB

CEGAR HEDGE

53+12 19' APPLE

53+35 14' STUMP

53+30 24' STUMP

SURVEY 1
CONSTRUCTION R.L.

TRANS. REGION DIVISION	PROJECT	SHEET NUMBER
5 WIS.	8057-1-71, 72	819

STATION	DISTANCE	YARDAGE			
		EXCAVATION			FILL
		UNCL.			
219		107			52
220		63			74
221		32			122
222		13			169
223		13			168
224		78			111
225		20			9
+30					
SHEET TOTAL		325			705

1 * OS HOR
1 * OS VER
3601 20

4" 8" 10" CHERRY

CEDAR HEDGE

10" 4" MAPLE
3" 4" LILAC
10" 8" MAPLE

10" 2" PINE
3" 22" SHRUB
2" 14" SHRUB