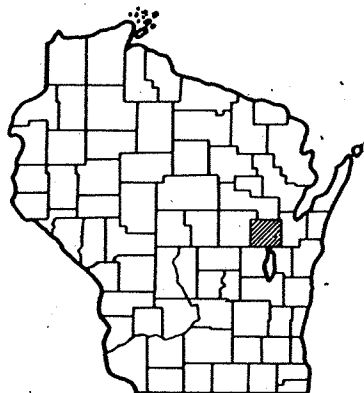


Index of Sheets

Sheet No.	1	Title
Sheet No.	2-2.2	Typical Sections and Details
Sheet No.	3-3.2	Estimate of Quantities
Sheet No.	3A	Miscellaneous Quantities
Sheet No.	4-4.9	Right of Way Plat
Sheet No.	5-5.4	Plan and Profile
Sheet No.	6-6.9	Standard Detail Drawings
Sheet No.	—	Standard Sign Plates
Sheet No.	—	Structure Plans
Sheet No.	9-9.1	Computer Earthwork Data
Sheet No.	9.2-9.16	Cross Sections

TOTAL SHEETS = 50



STATE OF WISCONSIN
DEPARTMENT OF TRANSPORTATION

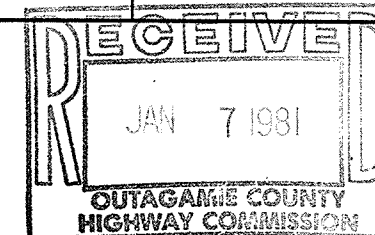
PLAN OF PROPOSED IMPROVEMENT

FREEDOM-EAST COUNTY LINE ROAD

(FREEDOM - SECTION LINE ROAD)

C.T.H. "S"
OUTAGAMIE COUNTY

STATE PROJECT	FEDERAL PROJECT	
	PROJECT	CONTRACT
6037-1-71	RS 1090(2)	1
6037-1-72	RS 1090(2)	2



9-5"

STATE PROJECT NUMBER
6037-1-71,

Scales PLAN: 1" = 100'
 PROFILE: HOR. 1" = 100'. VERT. 1" = 5'
 CROSS SECTIONS: HOR. 1" = 10'. VERT. 1" = 5'

BEGIN PROJECT 6037-1-71.72
STA. 63 + 80.00
N = 206,400 ±200' *
E = 2449,500 ±200' *

R. 18 E. R. 19 E.

END PROJECT 6037-1-71,72
STA. 198 + 44.55
N = 206,500 ±200' *
E = 2457,350 ±200' *

* SCALED FROM U.S.G.S. 15 MIN. SERIES
APPLETON AND DEPERE QUADRANGLES

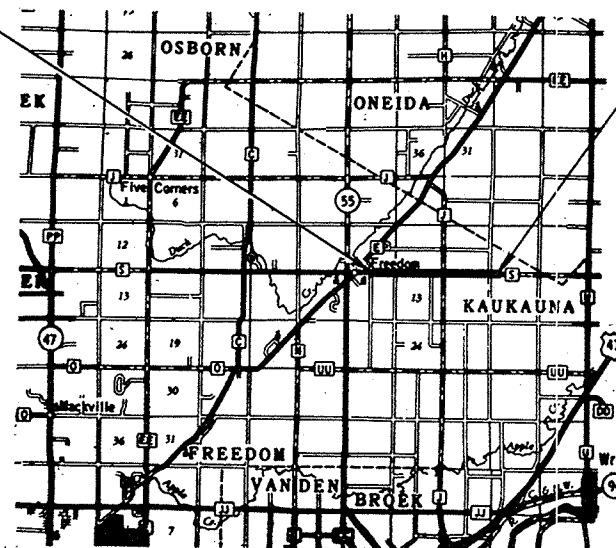
Design Designation

A.D.T. 1980	=	750
A.D.T. 2000	=	1,150
D.H.V. 2000	=	157
D.	=	60-40
T.	=	4.6%
V.	=	50 M.P.H.

Conventional Signs

County Line	—————
Township or Range Line	-----
Section Line	-----
Corporate or City Limits	//////
Property line	-----
Lot Line	-----
Existing Right of Way Line	-----
New Right of Way Line	-----
Base or Survey Line	~~~~~
Slope Intercept	~~~~~
Existing Roadway or Private Entrance	~~~~~

Caution Symbol (Combustible fluids under pressure)	
Railroads	
Fence	
Culverts in Place	
Culverts Required	
Power Pole	
Telephone or Telegraph Pole	
Right of Way Markers	
Marsh	
Wooded Area	
Grade Elevation	



T. 22 N.

206.78

Layout

Scale  2 Mi.



Total Net Length of Centerline = 2.550 Mi. RURA

"5"-6 - 2 Plans

APPROVED
FOR
OUTAGAMIE COUNTY
BY

11-29-79
DATE

M. M. M. M.
SIGNATURE OF OFFICIAL



PLANS PREPARED
BY



FOTH & VAN DYKE &
ASSOCIATES, INC.

2737 SOUTH RIDGE ROAD
P.O. BOX 3000
GREEN BAY, WISCONSIN 54303
1-414-497-2500

STATE OF WISCONSIN
DEPARTMENT OF TRANSPORTATION

Surveyor _____ District Checker R.G.P.
Designer _____ C. O. Checker MW
District Supervisor J.E.F. C.O. Coordinator MWT

Approved: _____

Date 2/27/00 CR Ryan
District Transportation Director

Approved:

Date 8/5/80 W. J. Strand
Chief Design Engineer

Approved:

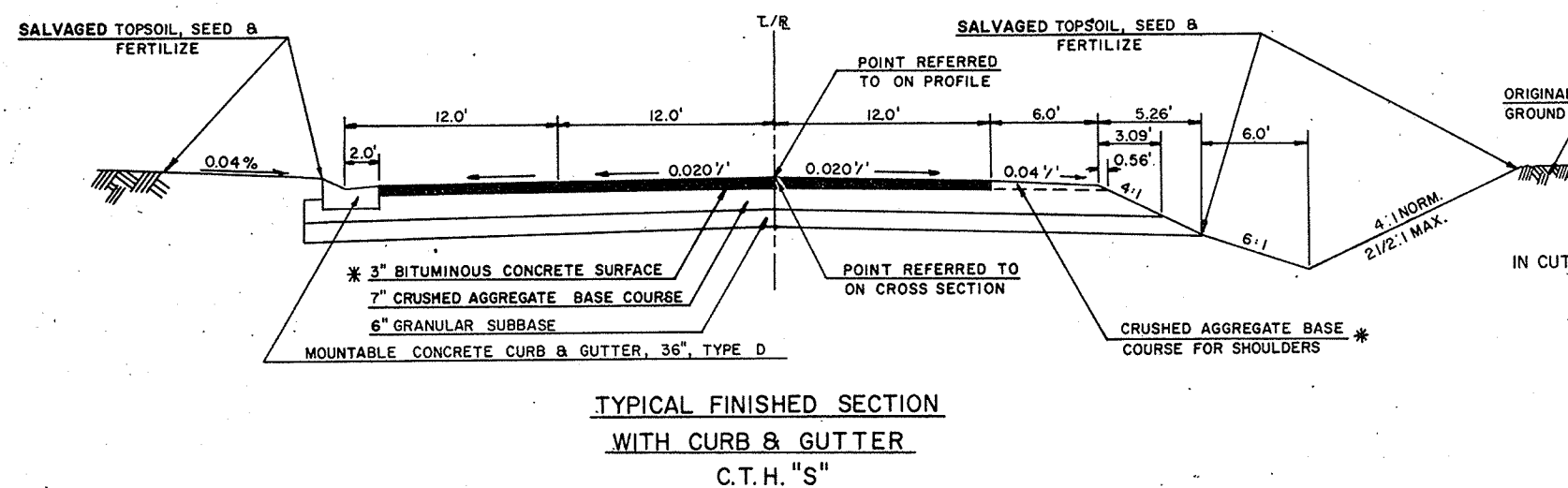
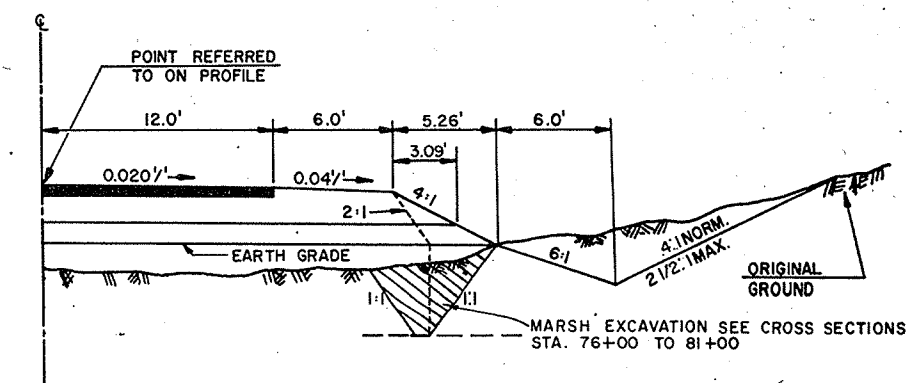
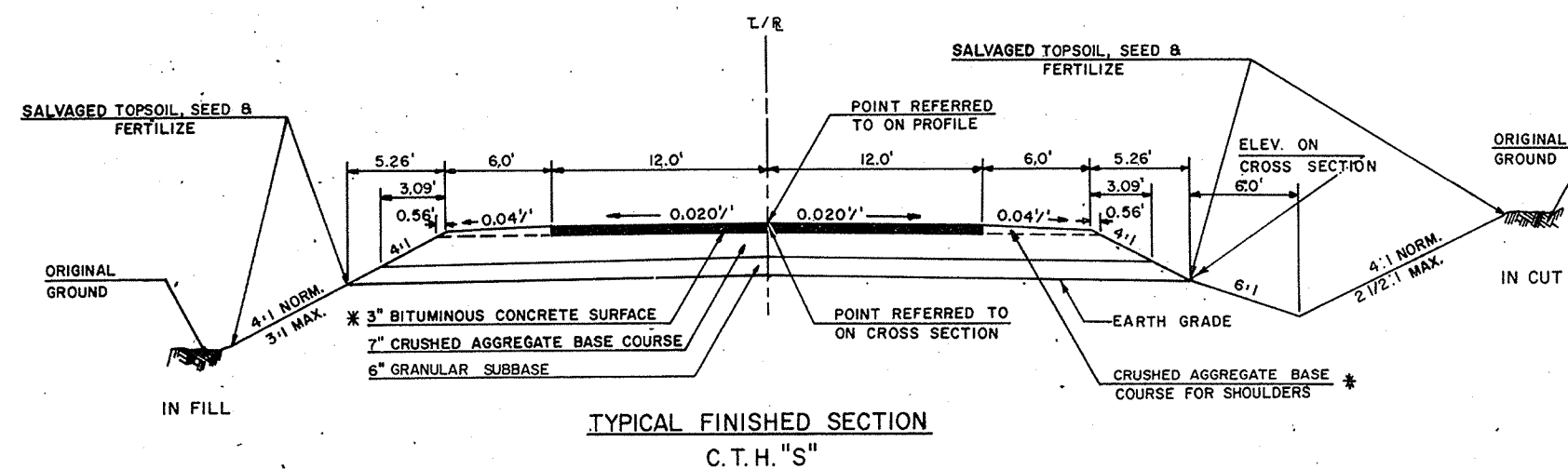
Date 8/6/80 E. J. Byrkit
Director of Development

U.S. DEPARTMENT OF TRANSPORTATION
FEDERAL HIGHWAY ADMINISTRATION
REGION 5 WISCONSIN DIVISION

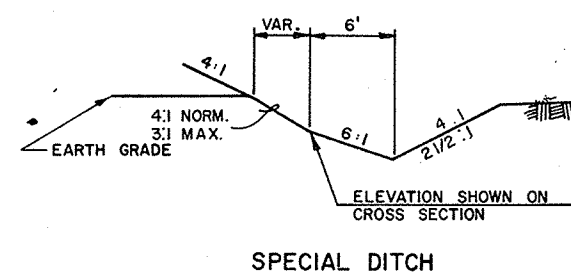
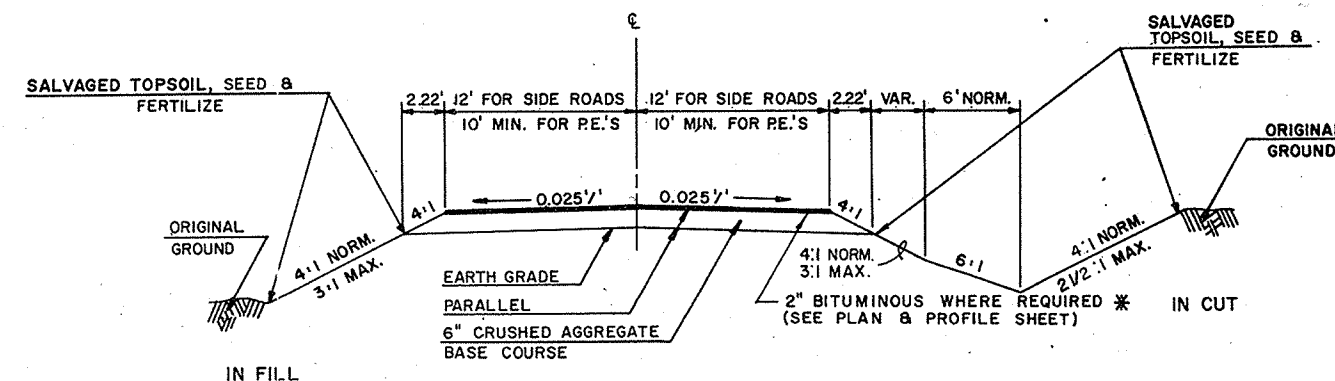
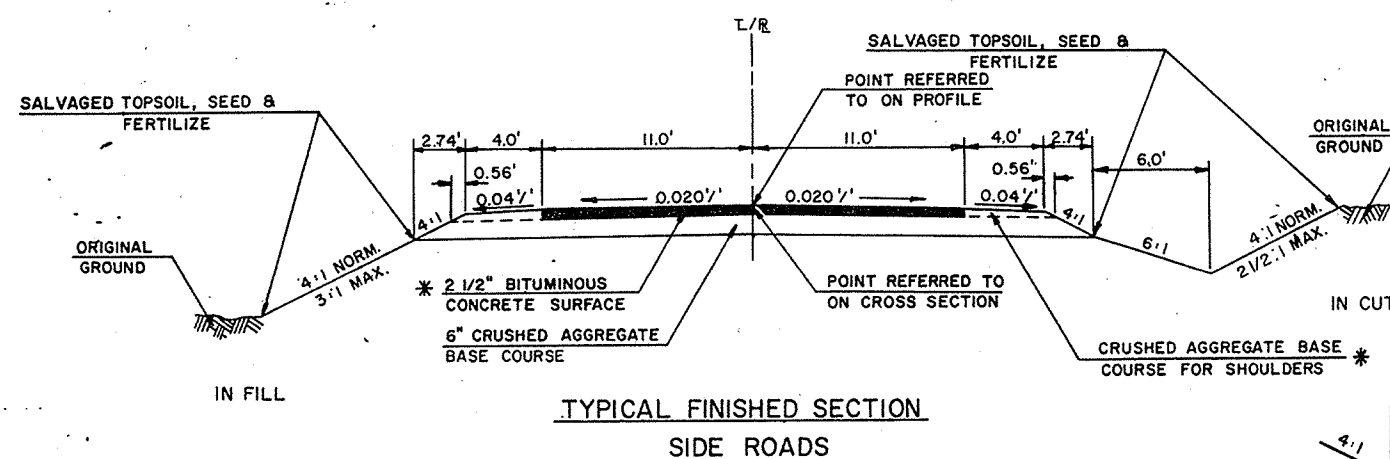
Approved:

Date _____ Division Administrator _____

STATE PROJECT NUMBER	SHEET NO.
6037-1-71,72	2
TYPICAL SECTIONS FOR	
C.T.H. "S"	OUTAGAMIE CO.



* NOT PART OF THIS CONTRACT



GENERAL NOTES

STATE PROJECT NUMBER	SHEET NO.
6037-1-71,72	2.1
GENERAL NOTES FOR C.T.H. "S" OUTAGAMIE COUNTY	

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.

LOCATIONS FOR ALL TELEPHONE CABLES FROM 198 + 44.55 TO 297 + 62.91 WERE NOT AVAILABLE AT THE TIME THE PLANS WERE PREPARED. VERIFICATION AS TO THE LOCATION, TO THE SATISFACTION OF THE CONTRACTOR SHALL BE ASSUMED AS A CONDITION OF THE CONTRACT.

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, SIDE ROAD, PRIVATE AND FIELD ENTRANCE CULVERT PIPES SHALL BE DETERMINED BY THE ENGINEER IN THE FIELD.

ALL TIES ON THIS PLAN ARE HORIZ. UNLESS DESCRIBED.

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

ALL DISTANCES ARE GROUND DISTANCES.

TREES TO BE CLEARED AND GRUBBED ARE THOSE WITHIN THE CONSTRUCTION LIMITS OR INDICATED WITH AN X UNLESS CHANGED IN THE FIELD BY THE ENGINEER.

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

WHERE EXISTING CULVERT PIPES ARE SHOWN TO BE EXTENDED OR REMOVED PARTIALLY OR ENTIRELY, THE REMOVAL OF THEIR M.R.M. END WALLS SHALL BE CONSIDERED INCIDENTAL TO OTHER BID ITEMS.

CURB AND GUTTER RADII ARE SHOWN TO THE FRONT FACE OF CURB.

CURB HEIGHTS AT ENDS OF CURB AND GUTTER SHALL BE TAPERED FROM 2 - 6 INCHES IN 6 FEET.

ALL BITUMINOUS CONCRETE PAVEMENT REMOVAL TO BE INCLUDED AND PAID FOR UNDER THE ITEM OF UNCLASSIFIED EXCAVATION.

LANDMARK REFERENCE MONUMENTS SHALL BE TYPE "A".

THE DRAINAGE STRUCTURES IN PLACE ON C.T.H. "S" AT STATION 76 + 13.70 AND 136 + 60 WILL REMAIN AND SHALL BE WIDENED (BY OTHERS).

ALL EXISTING ENTRANCE AND CROSS DRAIN PIPES SHOWN ON THE PLAN SHEETS SHALL BE REMOVED UNLESS OTHERWISE DIRECTED BY THE ENGINEER.

REMOVAL OF EXISTING CULVERT PIPES IS TO BE CONSIDERED INCIDENTAL UNLESS OTHERWISE ON THE PLANS.

EARTHWORK QUANTITIES AS SHOWN IN THE BALANCES INCLUDE THE QUANTITIES FROM SIDE ROAD CONNECTIONS.

EXCAVATION BELOW SUBGRADE (EBS) THAT IS NOT SHOWN ON THE CROSS SECTIONS OR PLAN AND PROFILE SHEETS, BUT IF REQUIRED, SHALL BE MEASURED AND PAID FOR AS UNCLASSIFIED EXCAVATION. THE LOCATION FOR (EBS), IF REQUIRED, SHALL BE DETERMINED BY THE ENGINEER.

DISTURBED AREAS WITHIN THE RIGHT OF WAY, EXCEPT THE AREAS WITHIN THE FINISHED SHOULDER POINTS ARE TO BE FERTILIZED AND SEEDED AS DIRECTED BY THE ENGINEER. SOD FLUMES WILL BE AS DIRECTED BY THE ENGINEER.

WHEN THE QUANTITY OF THE ITEM OF BASE COURSE OR SURFACE COURSE IS MEASURED FOR PAYMENT BY THE TON, THE DEPTH OR THICKNESS AS SHOWN ON THE PLAN IS APPROXIMATE. THE ACTUAL THICKNESS WILL DEPEND ON THE DISTRIBUTION OF THE MATERIAL AS DIRECTED BY THE ENGINEER.

ALL QUANTITIES SHOWN ARE ESTIMATED AND MAY CHANGE. FINAL QUANTITIES TO BE DETERMINED BY THE ENGINEER IN THE FIELD.

UTILITIES

WISCONSIN TELEPHONE COMPANY
MR. ROGER POST
221 W. WASHINGTON ST.
APPLETON, WI. 54911

TELEPHONE - (414)-739-8867

WISCONSIN ELECTRIC POWER COMPANY
MR. O.R. BOLL
807 SOUTH ONEIDA STREET
P.O. BOX 1007
APPLETON, WI 54911

TELEPHONE - (414)-734-1411

MICHIGAN-WISCONSIN PIPE LINE COMPANY
MR. W.J. WELLER
P.O. BOX 398
BONDUEL, WI 54107

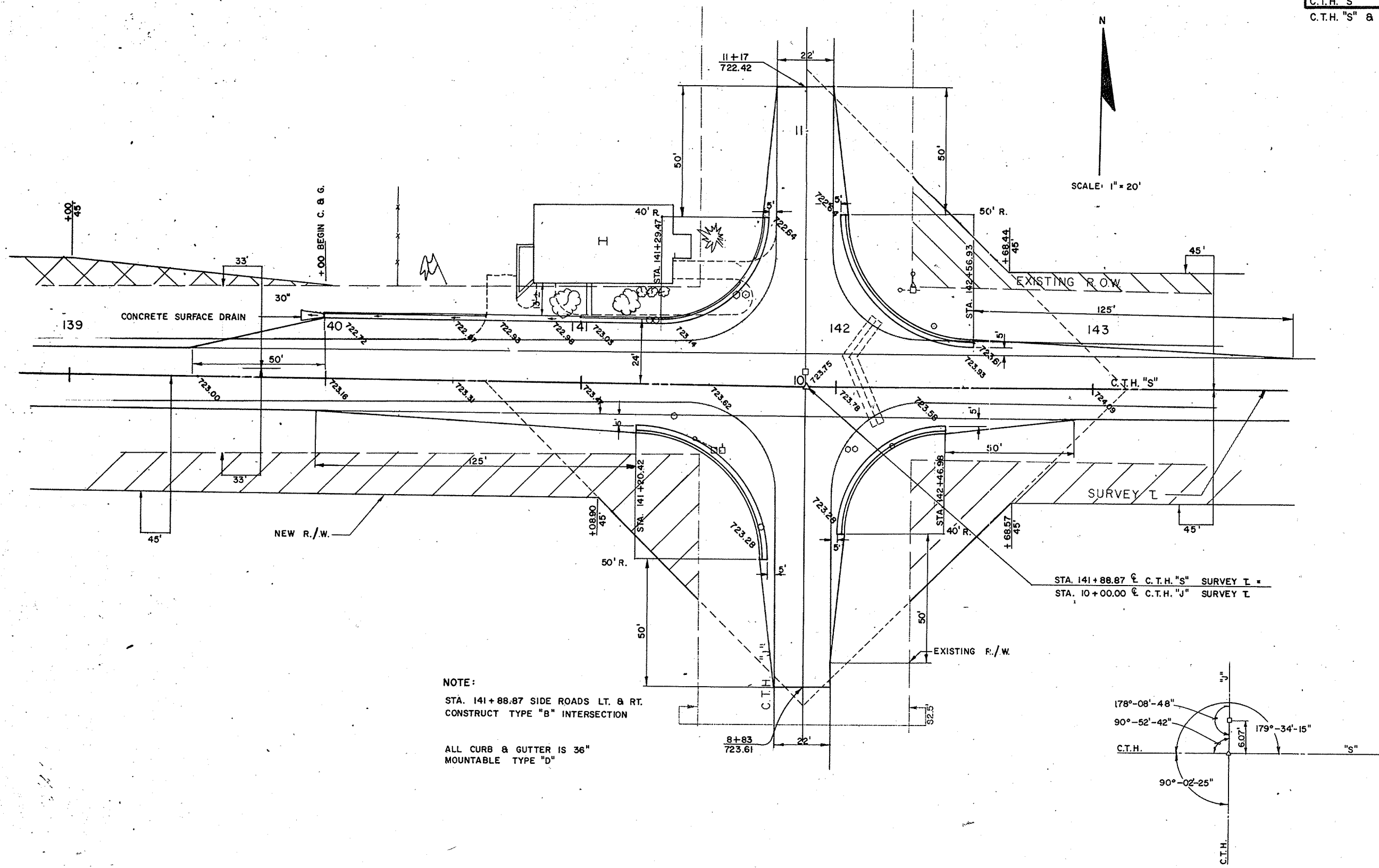
TELEPHONE - (715)-758-2131

STANDARD DRAWINGS

8D1-5 CONCRETE CURB AND GUTTER
8D4-1 CONCRETE SURF. DRAINS

8E8-1 EROSION BALES
8F1-8 APRON ENDWALLS
14B2-4A CLASS "A" STEEL PLATE BEAM GUARDS
14B2-4B CLASS "A" STEEL PLATE BEAM GUARDS
15A1-3 MARKER POSTS FOR RIGHT-OF-WAYS
15C1-6 CONSTRUCTION BARRICADES AND
STANDARD SIGNS
16A1-3 LANDMARK REFERENCE MONUMENTS
9A1-4 DESIGN AND LAYOUT DETAILS FOR SIDE
ROADS AT GRADE INTERSECTIONS

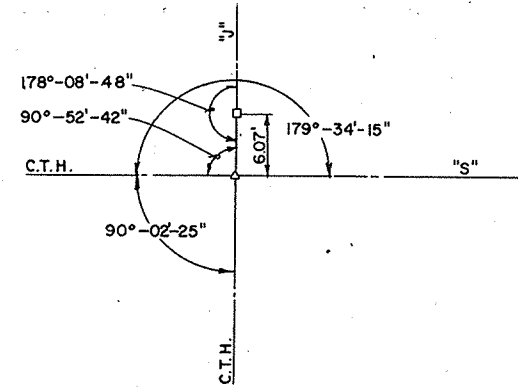
STATE PROJECT NUMBER	SHEET NO.
6037-1-71.72	2.2
CONSTRUCTION DETAILS FOR	
C.T.H. "S"	OUTAGAMIE COUNTY
C.T.H. "S" & C.T.H. "J" INTERSECTION	



NOTE:
STA. 141+88.87 SIDE ROADS LT. & RT.
CONSTRUCT TYPE "B" INTERSECTION

ALL CURB & GUTTER IS 36"
MOUNTABLE TYPE "D"

STA. 141+88.87 @ C.T.H. "S" SURVEY I =
STA. 10+00.00 @ C.T.H. "J" SURVEY I



ESTIMATE OF QUANTITIES

PROJECT ID: 6037-1-71
OUTAGAMIE COUNTY
FREEDOM - EAST COUNTY LINE ROAD
C.T.H. S

BANDS

18" 2 16.92
24" 4 43.68
30" 4 64.56
48" 2 138.84
42x29 27.45
49x33 31.64

ITEM	ITEM DESCRIPTION	UNIT	TOTAL	6037-01-71 QUANTITY
20101	CLEARING	STA.	3.00	3.00
20102	CLEARING	I.D.	102.00	102.00
20104	GRUBBING	STA.	3.00	3.00
20105	GRUBBING	I.D.	102.00	102.00
20503	UNCLASSIFIED EXCAVATION	C.Y.	29,808.00	29,808.00

20505	MARSH EXCAVATION	C.Y.	1,603.00	1,603.00
20801	BORROW EXCAVATION	C.Y.	2,571.00	2,571.00
21301	FINISHING ROADWAY	L.S.	1.00	1.00
40934	CONCRETE SURFACE DRAINS	C.Y.	2.00	2.00

5,752.80

52005	CULVERT PIPE, CLASS III, 24-INCH	L.F.	502.00	10.92	502.00	5,481.80
52007	CULVERT PIPE, CLASS III, 30-INCH	L.F.	244.00	16.14	244.00	3,938.16
52009	CULVERT PIPE, CLASS III, 36-INCH	L.F.	70.00	20.75	70.00	1,452.50
52010	CULVERT PIPE, CLASS III, 42-INCH	L.F.	32.00	30.75	32.00	984.00
52011	CULVERT PIPE, CLASS III, 48-INCH	L.F.	140.00	34.71	140.00	4,859.40

52061	APRON ENDWALLS FOR CULVERT PIPE, 18-INCH	EACH	38.00	4703	38.00	1,787.10
52063	APRON ENDWALLS FOR CULVERT PIPE, 24-INCH	EACH	24.00	69.94	24.00	1,678.56
52065	APRON ENDWALLS FOR CULVERT PIPE, 30-INCH	EACH	10.00	127.93	10.00	1,297.30
52067	APRON ENDWALLS FOR CULVERT PIPE, 36-INCH	EACH	4.00	206.17	4.00	824.68
52068	APRON ENDWALLS FOR CULVERT PIPE, 42-INCH	EACH	2.00	414.09	2.00	818.18

52069	APRON ENDWALLS FOR CULVERT PIPE, 48-INCH	EACH	4.00	473.73	4.00	
52136	CORRUGATED METAL PIPE ARCH, 21X15-INCH	L.F.	28.00	8.99	28.00	251.72
52138	CORRUGATED METAL PIPE ARCH, 28X20-INCH	L.F.	28.00	13.86	28.00	388.08
52140	CORRUGATED METAL PIPE ARCH, 42X29-INCH	L.F.	120.00	27.45	120.00	3,294.00
52141	CORRUGATED METAL PIPE ARCH, 49X33-INCH	L.F.	128.00	31.64	128.00	4,049.92

SHEET 3

1 TOTAL \$ 39,068.99

ITEM	ITEM DESCRIPTION	UNIT	TOTAL	6037-01-71 QUANTITY
52162	METAL APRON ENDWALLS FOR PIPE ARCH, 21X15-INCH	EACH	2.00	4273 2.00
52164	METAL APRON ENDWALLS FOR PIPE ARCH, 28X20-INCH	EACH	2.00	61.18 2.00
52166	METAL APRON ENDWALLS FOR PIPE ARCH, 42X29-INCH	EACH	4.00	162.10 4.00
52167	METAL APRON ENDWALLS FOR PIPE ARCH, 49X33-INCH	EACH	4.00	25787 4.00
60170	CONCRETE CURB AND GUTTER, 36-INCH, TYPE D	L.F.	413.00	413.00

85 46
122.36
648.40
1,031.48

61406	ANCHORAGES FOR STEEL PLATE BEAM GUARD	EACH	8.00	8.00
61408	STEEL PLATE BEAM GUARD, CLASS A	L.F.	1,106.00	1,106.00
62101	LANDMARK REFERENCE MONUMENTS	EACH	20.00	20.00
62301	CALCIUM CHLORIDE SURFACE TREATMENT	TON	27.00	27.00
62505	SALVAGED TOPSOIL	S.Y.	66,498.00	66,498.00

62810	EROSION BALES	EACH	15.00	15.00
62901	FERTILIZER	CWT.	42.00	42.00
63002	SEEDING	LB.	1,200.00	1,200.00
63101	SODDING	S.Y.	650.00	650.00
64201	FIELD OFFICE, TYPE A	L.S.	1.00	1.00

90001	SHAPING AND COMPACTING CRUSHED AGGREGATE BASE COURSE	TON	32,100.00	32,100.00
-------	---	-----	-----------	-----------

90002	SHAPING AND COMPACTING GRANULAR SUBBASE COURSE	TON	24,750.00	24,750.00
-------	--	-----	-----------	-----------

SHEET 3.1

*** NOT PART OF THIS CONTRACT**

*** BITUMINOUS QUANTITIES**

LOCATION	STATION TO STATION	BITUMINOUS CONC. PAVEMENT TONS	BITUMINOUS MATL. FOR SURFACE TONS
CTH "S"	63 + 80 - 198 + 44.55	6832	410

CLEARING & GRUBBING

LOCATION STATION TO STATION	CLEARING (STATION) (IN. DIA.)	GRUBBING (STATION) (IN. DIA.)
63 + 80 - 64 + 00	•	•
64 + 00 - 65 + 00	18	18
65 + 00 - 81 + 00	•	•
81 + 00 - 82 + 00	36	36
82 + 00 - 88 + 00	•	•
88 + 00 - 90 + 00	30	30
90 + 00 - 146 + 00	•	•
146 + 00 - 147 + 00	18	18
147 + 00 - 188 + 00	•	•
188 + 00 - 198 + 44.55	3	3

• DENOTES METHOD OF PAYMENT

LANDMARK REFERENCE MONUMENTS

LOCATION	EACH
STA. 89 + 43.21	4
STA. 128 + 86.19	4
STA. 141 + 88.87	4
STA. 165 + 84.72	4
STA. 192 + 04.08	4
	20

GRANULAR SUBBASE

6 INCH SQ.YD.	APPROX TONS
67.517	24,750

CONCRETE SURFACE DRAIN

LOCATION	STATION	CU. YD.
CTH "S"	140 + 00	2

CONCRETE CURB, CURB AND GUTTER

LOCATION	CONCRETE CURB & GUTTER
CTH "S" & CTH "J"	36" TYPE "D" 413 L.F.

SODDING

STATION	LOCATION	SQ. YDS.
63 + 80	RT	40
76 + 13.70	LT & RT	90
89 + 25	RT	40
91 + 80	LT & RT	45
101 + 80	LT & RT	45
116 + 80	LT & RT	45
136 + 60	LT & RT	90
142 + 15	LT & RT	45
180 + 50	LT & RT	45
191 + 65	LT & RT	45
192 + 40	LT & RT	45
UNDISTRIBUTED		75

TOTAL = 650 S.Y.

EROSION BALES

LOCATION	EACH
UNDISTRIBUTED FOR USE AS DIRECTED BY THE ENGINEER	15

UNCLASSIFIED EXC. (CU. YD.)	MARSH EXC. (CU. YD.)	FILL EMBANK. (CU. YD.)	BORROW (CU. YD.)
29.808	1,603	22.670	1,603
			+ 22,670
			24,273
			x 14
			33,982
			-29,808
			-1,603
			2,571

**CRUSHED AGGREGATE BASE COURSE
(PRODUCING, HAULING, SHAPING AND COMPACTING)**

LOCATION	ROADWAY TONS	SHOULDERS TONS
MAINLINE & SIDE ROADS	28,312	2,638
P.E.'S AND F.E.'S	870	
UNDISTRIBUTED	228	52
TOTALS	29,410	2,690

COMBINED TOTALS = 32,100 TONS

STEEL PLATE BEAM GUARD, CLASS "A"

LOCATION	STATION TO STATION	L.F.	ANCHORAGES REQUIRED
C.T.H. "S"	74 + 72 TO 77 + 55 LT	283	2
C.T.H. "S"	74 + 72 TO 77 + 55 RT	283	2
C.T.H. "S"	135 + 30 TO 138 + 00 LT	270	2
C.T.H. "S"	135 + 30 TO 138 + 00 RT	270	2

CROSS DRAINS

EXISTING	STATION	LOCATION	DIA. (IN.)	LENGTH (L.F.)	TYPE (CLASS)	THICKNESS (IN.) STEEL	ALUMINUM	END TREATMENT RIPRAP (C.Y.)	APRON ENDWALLS	ELEVATIONS INLET DISC.
1-17" CONC. 37' LONG	91 + 80	C _L	30"	62'	CP III	0.079	0.075		2	724.00 723.50
1-18" CONC. 37' LONG	101 + 80	C _L	24"	52'	CP III	0.064	0.060		2	727.50 727.00
1-24" CMCF 2-24" CMCF	116 + 80	C _L	24"	60'	CP III	0.064	0.060		2	723.50 723.00
30' LONG 2-36" CMCF	142 + 15	C _L	2 - 42" X 29"	60'	CMFA	0.079	0.105		4	719.75 719.25
36' LONG 1-28" CMCF	180 + 50	C _L	2 - 48"	70'	CP III	0.109	0.105		4	714.00 713.50
36' LONG 1-28" CMCF	191 + 65	C _L	2 - 49" X 33"	64'	CMFA	0.079	0.105		4	713.70 713.20
36' LONG	192 + 40	C _L	30"	62'	CP III	0.079	0.075		2	713.50 713.00

MINOR SIDE ROADS AND PRIVATE ENTRANCE PIPES

STATION	LOCATION	DIA. (IN.)	LENGTH (L.F.)	TYPE	CLASS	THICKNESS (IN.) STEEL	ALUM.	APRON ENDWALLS	SODDING (SQ. YD.)	EXISTING CULVERT	EXISTING LENGTH
70 + 58	PE LT.	24"	44'	CP	III	0.064	0.060	2		1-18" CMCF	27'
79 + 53	PE LT.	42"	32'	CP	III	0.109	0.105	2		1-34" CMCF	35'
87 + 54	PE RT.	18"	36'	CP	III	0.079	0.105	2		1-28" CONC.	33'
88 + 12	PE RT.	18"	42'	CP	III	0.064	0.060	2		1-28" CONC.	33'
88 + 86	PE RT.	18"	48'	CP	III	0.064	0.060	2		1-18" CMCF	22'
88 + 97	PE LT.	2 - 30"	42'	CP	III	0.079	0.075	4		2-30" CONC.	22'
94 + 87	PE RT.	18"	36'	CP	III	0.064	0.060	2		1-16" CONC.	19'
95 + 93	PE LT.	18"	38'	CP	III	0.064	0.075	2		1-24" CMCF	26'
98 + 32	PE RT.	18"	30'	CP	III	0.064	0.060	2		18" CONC. 16" CMCF	11'
99 + 23	PE RT.	18"	28'	CP	III	0.064	0.060	2		1-16" CMCF	26'
105 + 05	PE RT.	18"	40'	CP	III	0.064	0.060	2		1-15" CONC.	24'
107 + 90	PE LT.	30"	36'	CP	III	0.079	0.075	2		1-24" CMCF	28'
110 + 30	PE RT.	21" X 15"	28'	CMFA		0.064	0.060	2		1-15" CONC.	17'
124 + 47	PE LT.	36"	42'	CP	III	0.079	0.105	2		1-36" CMCF	20'
128 + 80	VANDEBUSCH RD	18"	52'	CP	III	0.064	0.060	2		1-24" CMCF	46'
128 + 87	PE LT.	36"	28'	CP	III	0.079	0.105	2		1-36" CMCF	20'
147 + 46	PE LT.	24"	30'	CP	III	0.064	0.060	2		1-24" CMCF	22'
152 + 67	PE LT.	18"	30'	CP	III	0.064	0.060	2		1-24" CMCF	20'
152 + 77	PE RT.	28" X 20"	28'	CMFA		0.064	0.060	2		1-24" CMCF	28'
158 + 25	PE RT.	18"	36'	CP	III	0.064	0.060	2		NONE	
159 + 30	PE LT.	18"	32'	CP	III	0.064	0.060	2		NONE	
163 + 40	PE RT.	24"	34'	CP	III	0.064	0.060	2		1-18" CMCF	28'
164 + 15	PE RT.	24"	38'	CP	III	0.064	0.060	2		1-18" CMCF	31'
168 + 27	PE RT.	24"	62'	CP	III	0.064	0.060	2		1-18" CMCF	40'
168 + 87	PE RT.	24"	40'	CP	III	0.064	0.060	2		1-18" CMCF	21'
172 + 39	PE RT.	24"	36'	CP	III	0.064	0.060	2		1-18" CMCF	17'
173 + 02	PE RT.	24"	32'	CP	III	0.064	0.060	2		1-18" CMCF	31'
178 + 94	PE LT.	24"	38'	CP	III	0.064	0.060	2		1-18" CMCF	17'
182 + 84	PE LT.	18"	34'	CP	III	0.064	0.060	2		1-16" CONC.	32'
183 + 90	PE LT.	18"	34'	CP	III	0.064	0.060	2		NONE	
184 + 12	PE RT.	24"	36'	CP	III	0.064	0.075	2		NONE	
184 + 97	PE LT.	18"	36'	CP	III	0.079	0.105	2		16" CMCF	20'
193 + 00	PE RT.	18"	32'	CP	III	0.064	0.060	2		15" CMCF	25'
194 + 81	PE LT.	18"	30'	CP	III	0.064	0.060	2		18" CMCF	20'
197 + 02	PE LT.	18"	36'	CP	III	0.064	0.060	2		18" CMCF	16'
197 + 82	PE RT.	18"	30'	CP	III	0.064	0.060	2		18" CMCF	28'

ABBREVIATIONS

ABUT.	ABUTMENT	M.P.	MARKER POST
A.P.	ACCESS POINT	M.	MARSH
AC.	ACRE	M.L. OR M/L	MATCH LINE
AGG.	AGGREGATE	MAT'L.	MATERIAL
AH.	AHEAD	NOM.	NOMINAL
	ANGLE	N.	NORTH
A.C.	ASPHALT CEMENT	N.(OR Y.)	NORTH GRID COORDINATE
AVG.	AVERAGE	N.B.	NORTHBOUND
A.D.T.	AVERAGE DAILY TRAFFIC	NO.	NUMBER
B.F.	BACK FACE	OBLIT.	OBLITERATE
B _L OR B/L	BASE LINE	O.L.	OUT LOT
BEG.	BEGIN	O.D.	OUTSIDE DIAMETER
B.M.	BENCH MARK	P.S.D.	PASSING SIGHT DISTANCE
BIT.	BITUMINOUS	PAV'T.	PAVEMENT
B.C.C.M.C.P.	BITUMINOUS-COATED	P.C.P.	PIPE CATTLE PASS
	C.M.C.P.	P.U.	PIPE UNDERDRAIN
B.C.C.M.P.A.	BITUMINOUS-COATED	P.U.D.T.	PIPE UNDERDRAIN
	C.M.P.A.		DRAIN TILE
	BITUMINOUS PLANT MIX	P.U.U.	PIPE UNDERDRAIN
B.P.M.	BACK		UNPERFORATED
BK.	BLOCK	PT.	POINT
BLK.	BRIDGE	P.C.	POINT OF CURVATURE
B. OR BR.	CENTER LINE	P.I.	POINT OF INTERSECTION
C _L C _L C/L		P.R.C.	POINT OF REVERSE
C.C.	CENTER TO CENTER		CURVATURE
	CENTRAL ANGLE OR DELTA	P.T.	POINT OF TANGENCY
CONC.	CONCRETE	P.O.C.	POINT ON CURVE
CORR.	CORRUGATED	P.O.T.	POINT ON TANGENT
C.A.C.P.	CORRUGATED ALUMINUM	P.V.C.	POLYVINYL CHLORIDE
	CULVERT PIPE	P.C.C.	PORTLAND CEMENT
C.A.P.A.	CORRUGATED ALUMINUM		CONCRETE
	PIPE ARCH	LB.	POUND
C.M.C.P.	CORRUGATED METAL	P.S.I.	POUNDS PER SQUARE INCH
	CULVERT PIPE	P.E.	PRIVATE ENTRANCE
C.M.P.A.	CORRUGATED METAL PIPE	PROJ.	PROJECT
	ARCH	Q.C.D.	QUITCLAIM DEED
C.M.P.C.P.	CORRUGATED METAL PIPE	R.	RADIUS
	CATTLE PASS	R.P.	RADIUS POINT
CO.	COUNTY	R _L R/L, R	REFERENCE LINE
CTH	COUNTY TRUNK HIGHWAY	R.P.	REFERENCE POINT
CR.	CREEK	R.C.C.P.	REINFORCED CONCRETE
CR	CRUSHED		CULVERT PIPE
C.Y. OR CU.YD.	CUBIC YARD	R.C.E.P.	REINFORCED CONCRETE
CULT.	CULTIVATED		ELLIPTICAL PIPE
CULV.	CULVERT	R.C.P.A.	REINFORCED CONCRETE
C.P.	CULVERT PIPE		PIPE ARCH
C. & G.	CURB AND GUTTER	R.C.P.C.P.	REINFORCED CONCRETE
(D)	DEED		PIPE CATTLE PASS
DEF.	DEFORMED	R.C.P.S.S.	REINFORCED CONCRETE
D.	DEGREE OF CURVE		PIPE STORM SEWER
D.H.V.	DESIGN HOUR VOLUME	REINF.	REINFORCING OR
DIA.	DIAMETER		REINFORCEMENT
D.	DIRECTIONAL	REBAR.	REINFORCEMENT BAR
	DISTRIBUTION	REL.	RELOCATE(D)
DISCH. OR DIS.	DISCHARGE	REM.	REMAINING
DIST.	DISTRICT	REP.	REPRESENTATIVE
D.G.	DITCH GRADE	REQ'D.	REQUIRED
DWY.	DRIVEWAY	RES.	RESIDENCE OR
EA.	EACH		RESIDENTIAL
E. (OR X.)	EAST	SPEC'S.	SPECIFICATIONS
	EAST GRID	SQ.	SQUARE
E.B. (L.)	EASTBOUND (LANE)	S.F. OR SQ.	SQUARE FEET
ELEC.	ELECTRIC(IAL)		
EL. OR ELEV.	ELEVATION	S.Y. OR	SQUARE YARD
EMB.	EMBANKMENT	SQ. YD.	STATE TRUNK HIGHWAY
E.W.	ENDWALL	STH	STATION
ENT.	ENTRANCE	SSD	STOPPING SIGHT
EXC.	EXCAVATION		DISTANCE
E.B.S.	EXCAVATION BELOW	SS	STORM SEWER
	SURFACE	S.P.P.	STRUCTURAL PLATE
EXIST.	EXISTING		PIPE
EXP.	EXPAND(ED) OR	S.P.P.A.	STRUCTURAL PLATE
	EXPANSION	S. OR S/L	SURVEY LINE
F.F.	FACE TO FACE	T	TANGENT
F.P.	FENCE POST	TEL.	TELEPHONE
FERT.	FERTILIZE	TEMP.	TEMPORARY
F.E.	FIELD ENTRANCE	M.B.M.	THOUSAND FEET BOARD
F.	FILL		MEASURE
F.G.	FINISHED GRADE	T.C.	TOP OF CURB
F.L. OR F/L	FLOW LINE	T. OR TN.	TOWN
FT.	FOOT	TRANS.	TRANSITION
HYD.	HYDRANT	T _L OR T/L	TRANSIT LINE
IN. DIA.	INCH DIAMETER	T	TRUCKS (PERCENT OF)
INL.	INLET	TYP.	TYPICAL
I.D.	INSIDE DIAMETER	UNCL.	UNCLASSIFIED
INTERS.	INTERSECTION	U.G.	UNDERGROUND (CABLE)
I OR	INTERSECTION ANGLE	U.S.	U.S. HIGHWAY
INV.	INVERT	VERT.	VERTICAL
I.P.	IRON PIPE OR PIN	V.C.	VERTICAL CURVE
JT.	JOINT	VIT.	VITRIFIED
JCT.	JUNCTION		
L.	LENGTH (OF CURVE)		
L.H.E.	LIMITED HIGHWAY		
	EASEMENT		
LIN. FT.	LINEAR FOOT		
L.C.	LONG CHORD OR CURVE		
L.S.	LUMP SUM		

STATE OF WISCONSIN

OUTAGAMIE COUNTY HIGHWAY DEPARTMENT

PLAT OF RIGHT OF WAY REQUIRED FOR FREEDOM-EAST COUNTY LINE ROAD C.T.H. "S" OUTAGAMIE COUNTY

BEGIN RELOCATION ORDER PROJECT 6037-1-00

STA. 62+89.88

N = 206,350 ± 200' *

E = 2449,350 ± 200' *

* SCALED FROM U.S.G.S. 15 MIN. SERIES
APPLETON AND DEPERE QUADRANGLES

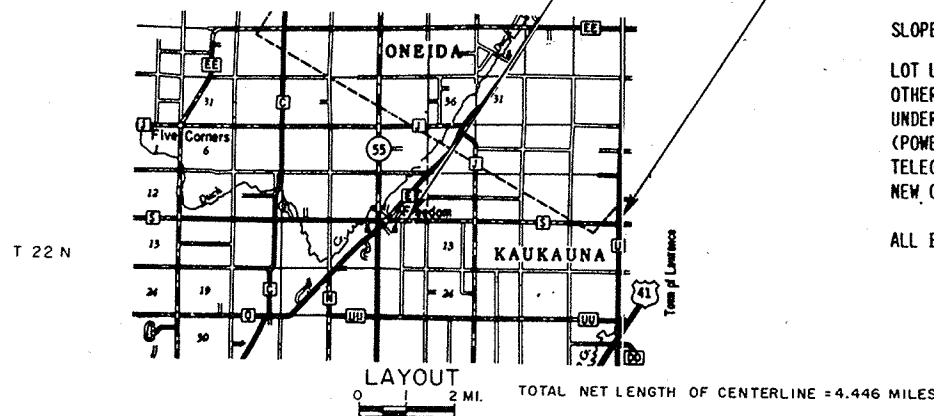
END RELOCATION ORDER PROJECT 6037-1-00

STA. 297+64.91

N = 206,625 ± 200' *

E = 2472,630 ± 200' *

* SCALED FROM U.S.G.S. 15 MIN. SERIES R 18 E
APPLETON AND DEPERE QUADRANGLES



PARCEL NO.	SHEET NO.	OWNER
1	5-1	ED EVERS
2	5-1	WELDON HUSS
3	5-1.5-2.5-3	MARK KERKHOFF
4	5-1	ROBERT J. SCHAEZT
5	5-1.5-2	ELIZABETH VANDENENG
6	5-1.5-2	F. VANDENENG
7	5-1.5-2	JOHN WISNESKI
8	5-1.5-2.5-3	GILBERT VOSTERS
9	5-3.5-4.5-5	CORNEAL J. DE JONG
10	5-3, 5-4	
	5-8, 5-9	GORDON KIEFFER
11	5-2	RONALD J. VAN DEN ENG & E. VAN DEN ENG
12	5-1.2.3.5.6.7	WISCONSIN TELEPHONE COMPANY
13	5-4	MARVIN H. VANDENENG
14	5-4	ROBERT A. ROMANESKO
15	5-4	PATRICIA A. JOHNSON
16	5-4	WILLIAM J. EBBON
17	5-5, 5-6	ROBERT GREEN
18	5-5	MICHAEL GOVNERING
19	5-5	ROBERT VERHASSSET & NORBERT A. GREEN
20	5-6	ROBERT VERHASSSET
21	5-1.6	WISCONSIN ELECTRIC POWER COMPANY

PARCEL NO.	SHEET NO.	OWNER
22	5-6	SIMON VOSTERS
23	5-6, 5-7	LEO MCKE
24	5-6	DAVID A. ROSKUM
25	5-6, 5-7	CLEMENT VANDENBERG & HENRY VANROSSUM
26	5-6, 5-7	KAY ANN FARMS, INC.
27	5-5, 5-6	JEROME SCHEURELL
28	5-7.5-8.5-9	ROBERT VANDENBERG
29	5-7	RICHARD VANROSSUM & CLEMENT VANDENBERG
30	5-5.5-9	MICHIGAN-WISCONSIN PIPE LINE COMPANY
31	5-7	RONALD C. MEYERS
32	5-7	CLEMENT VANDENBERG
33	5-7	DENNIS FARRELL
34	5-9	G. VANDENBERG & D. VANDENBERG
35	5-9	GERTRUDE VANDENBERG
36	5-9, 5-10	LINDON BURT & STEPHEN L. FITZGERALD
37	5-9, 5-10	DOUGLAS G. & CAROL J. VANDERWALKER
38	5-9	JAMES G. NACKERS
39	5-9	GERTRUDE & D & C VANDENBERG
40		
41	5-10	MILDRED HOULE
42	5-7	ARLIN E. MEHRTEN

R/W PROJECT NUMBER	6037-1-00	SHEET NUMBER	5.0	TOTAL SHEETS	13
FEDERAL PROJECT NUMBER					
PLAT OF RIGHT OF WAY REQUIRED FOR					
C.T.H. "S" OUTAGAMIE COUNTY					
SCALE 0 50 100 200 FT					
CONSTRUCTION PROJECT NUMBER 6037-1-71,72/4					
6037-1-73					

REVISED 12-3-79

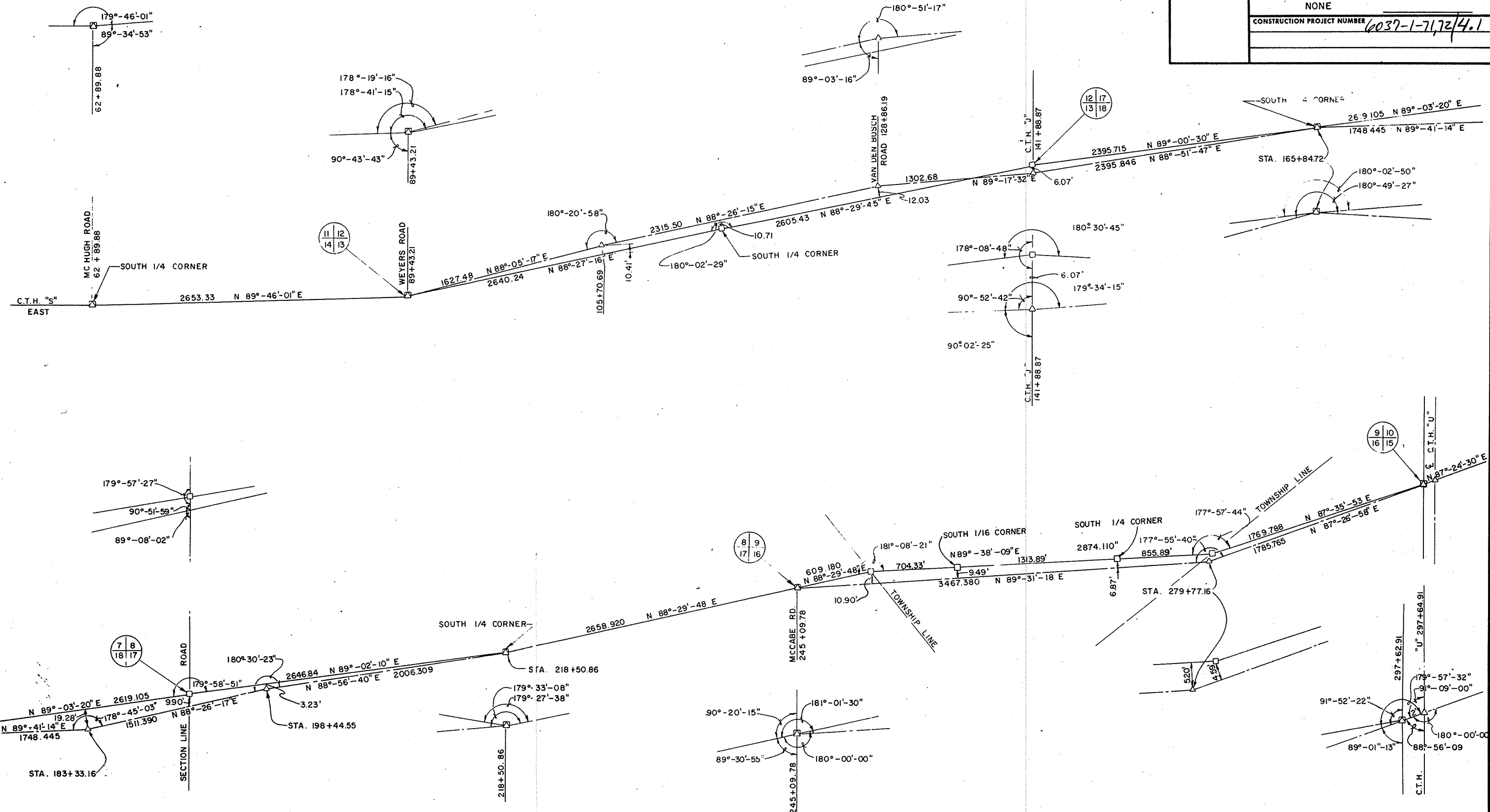
CONVENTIONAL SIGNS

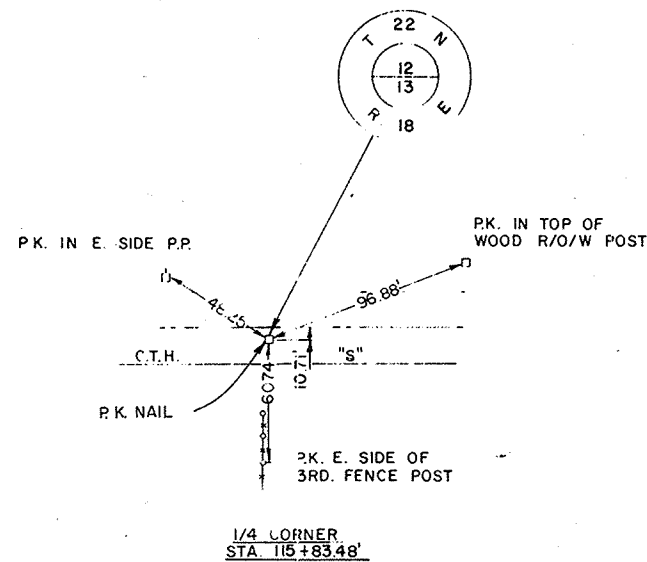
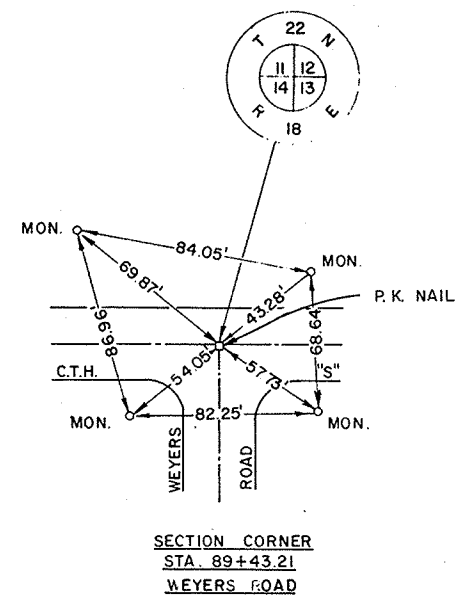
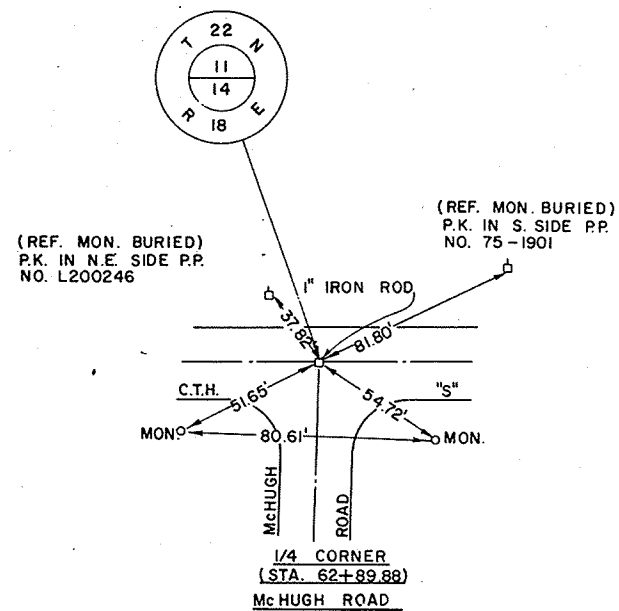
STATE LINE	---	STREAM OR RIVER	NAME
COUNTY LINE	---	LAKE	LAKE
TOWNSHIP AND RANGE LINE	---	TRAVELED WAY	
SECTION LINE	---	BUILDING	TYPE
QUARTER LINE	---	IRON PIPE	• I.P.
OLD R/W LINE	---	POWER POLE	■
PROPERTY LINE	PL. +0.00	TELEPHONE POLE	■
SIXTEENTH LINE	---	RAIL LINE	---
CORPORATE LIMITS	(NAME)	WELL	■
SLOPE INTERCEPTS	SLOPE INTERCEPT	STONE MONUMENT	■
LOT LINES, TIE AND ANY OTHER MINOR DASHED LINES	(TYPE)	SEPTIC TANK	○
UNDERGROUND FACILITY (POWER, TELEPHONE, GAS, ETC.)		TELEPHONE PEDESTAL OR RISER	■
NEW CENTER LINE	---	GOVERNMENT CORNER	□
ALL BRIDGES	---	NEW CENTERLINE P.I.	△

APPROVED FOR OUTAGAMIE COUNTY BY	
DATE	SIGNATURE OF OFFICIAL
PLANS PREPARED BY	
FOTH & VAN DYKE & ASSOCIATES, INC.	
2737 SOUTH RIDGE ROAD P.O. BOX 3000 GREEN BAY, WISCONSIN 54303 1-414-497-2500	

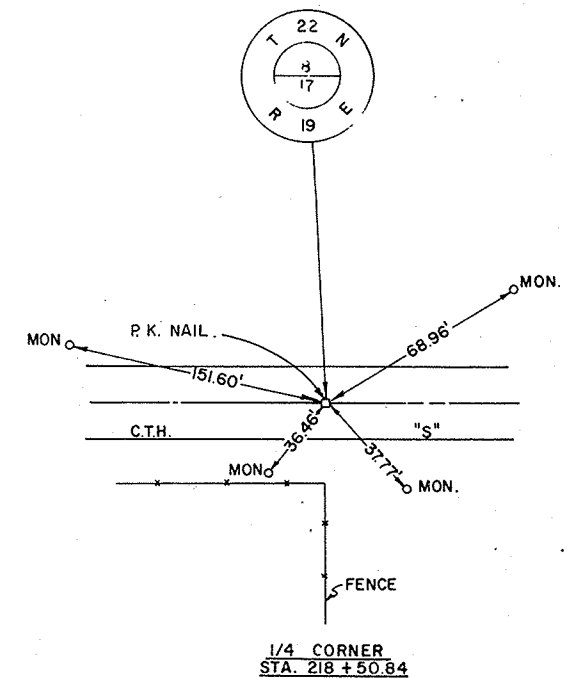
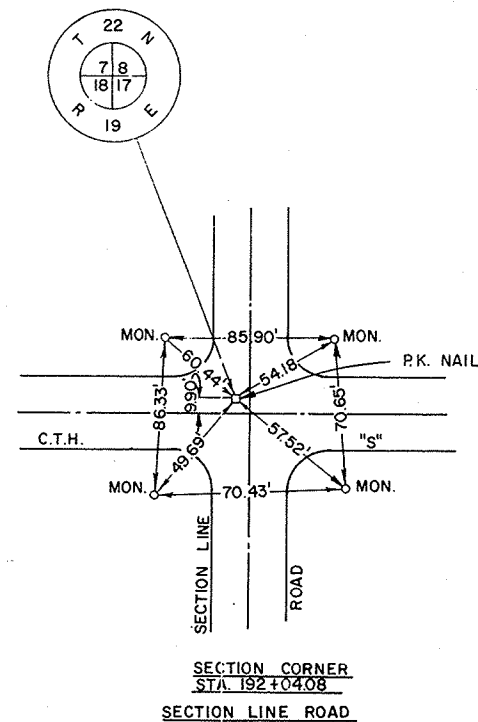
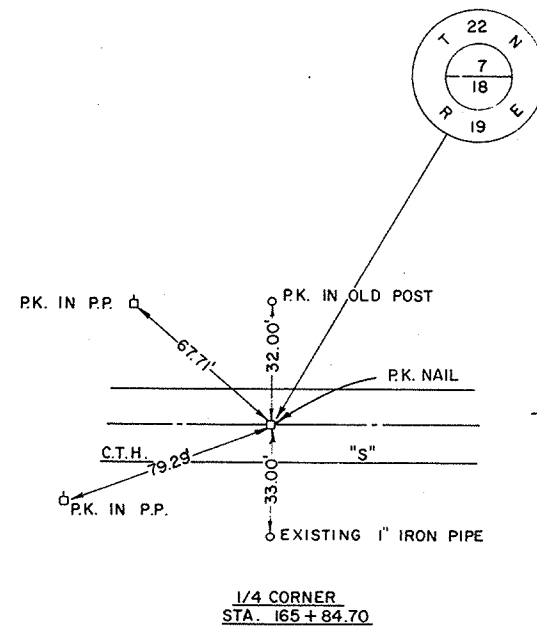
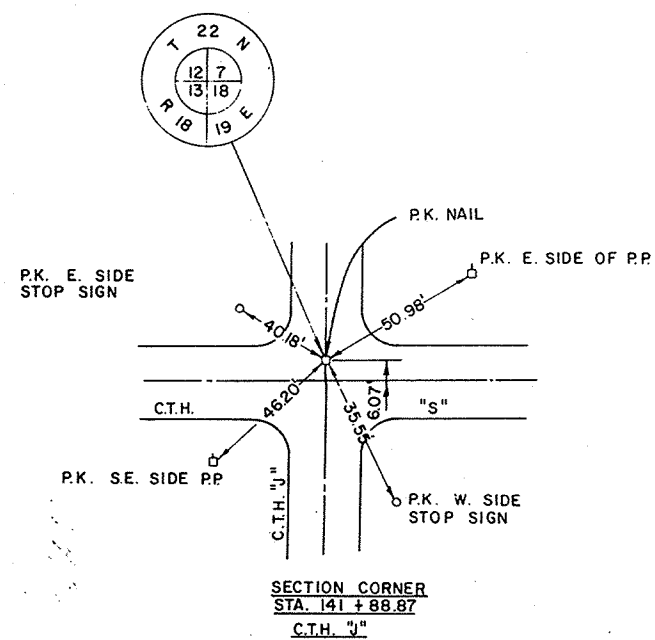
REVISION DATE	R/W PROJECT NUMBER 6037 - 1 - 00	SHEET NUMBER 5.01
	FEDERAL PROJECT NUMBER	
PLAT OF RIGHT OF WAY REQUIRED FOR C.T.H. "S"		

 SECTION LINE
 PROPOSED C.T.H. "S" - L & R
 COMBINED LINES

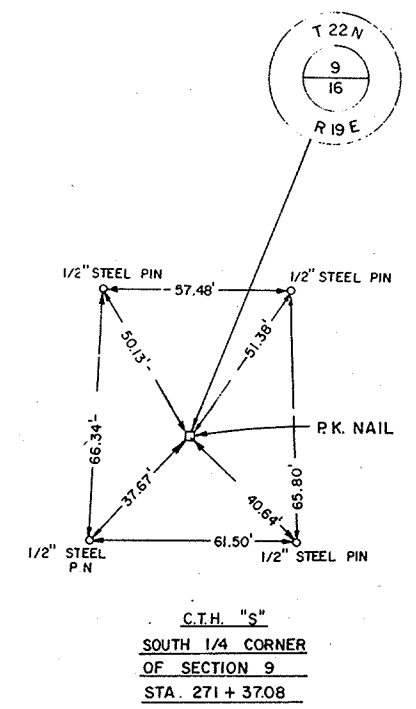
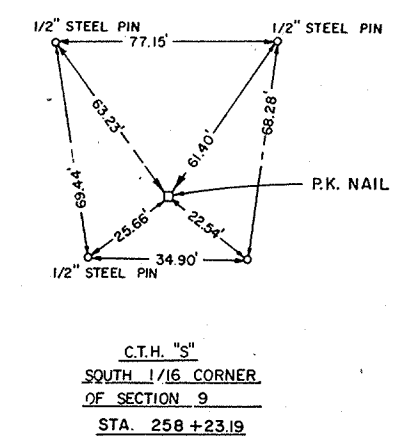
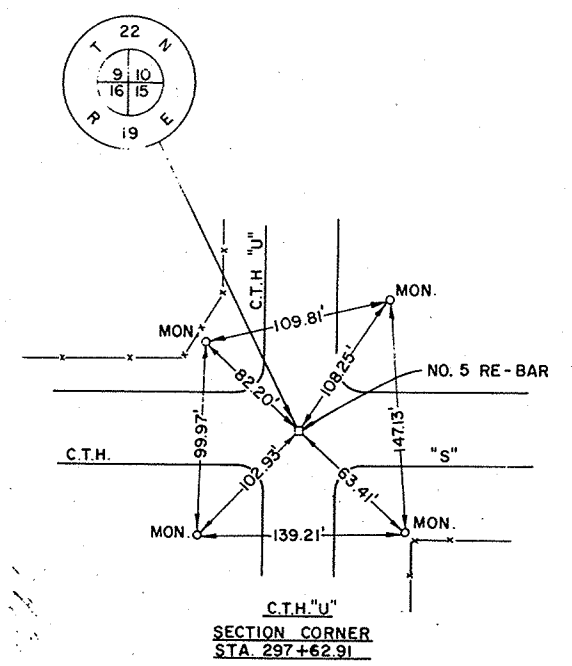
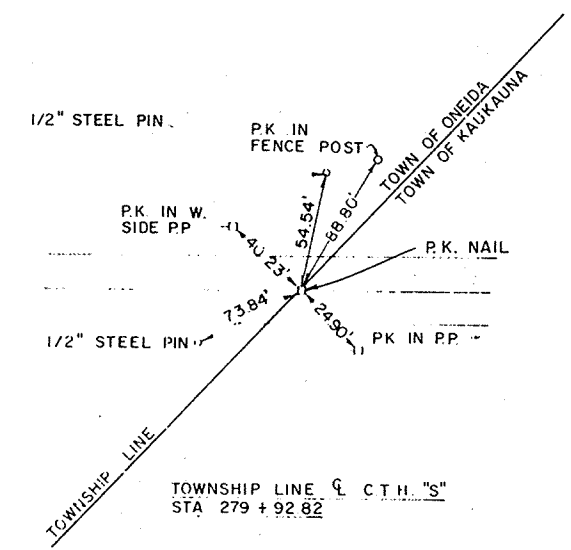
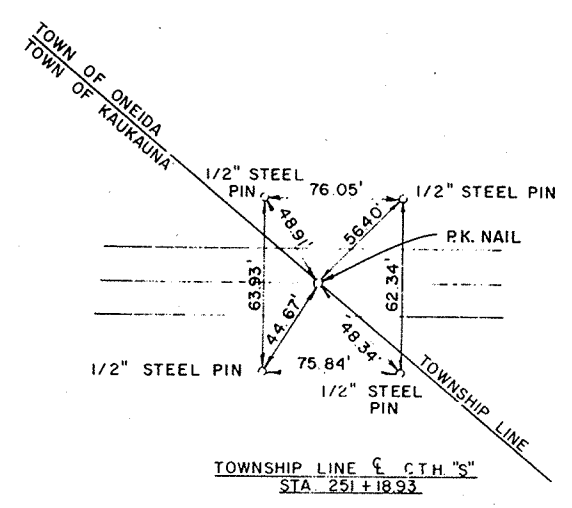
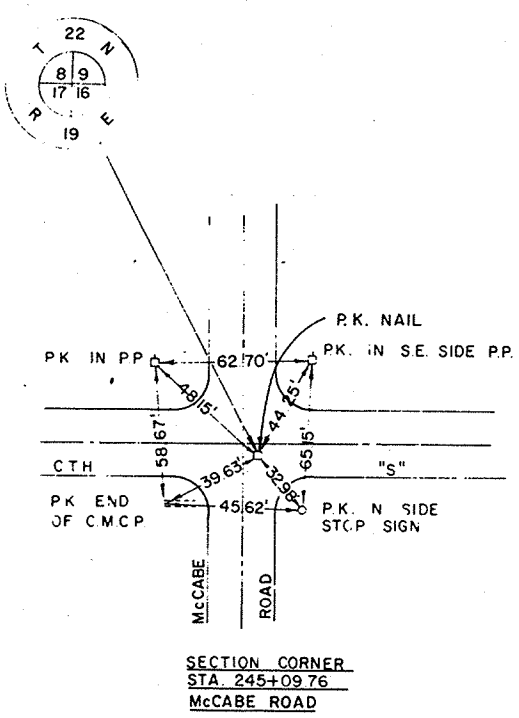




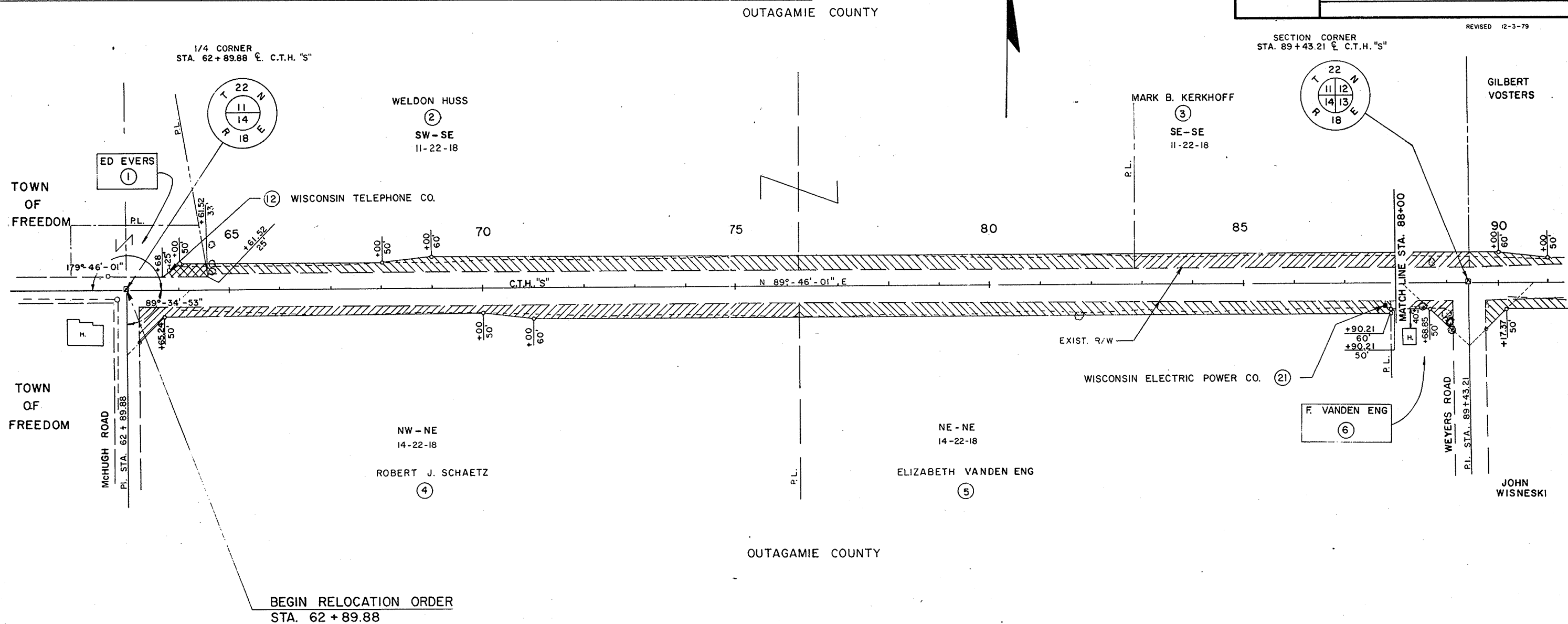
REVISION DATE	R/W PROJECT NUMBER 6037-1-00	SHEET NUMBER 5.02
FEDERAL PROJECT NUMBER		
PLAT OF RIGHT OF WAY REQUIRED FOR C.T.H. "S" OUTAGAMIE COUNTY		
SCALE NONE DATE		
CONSTRUCTION PROJECT NUMBER 6037-1-71,72/4.2		



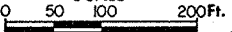
REVISION DATE	R/W PROJECT NUMBER 6037-1-00	SHEET NUMBER
	FEDERAL PROJECT NUMBER	503
	PLAT OF RIGHT OF WAY REQUIRED FOR	
	SCALE NONE	Ft. DATE
	CONSTRUCTION PROJECT NUMBER 6037-1-71, 72/4.3	

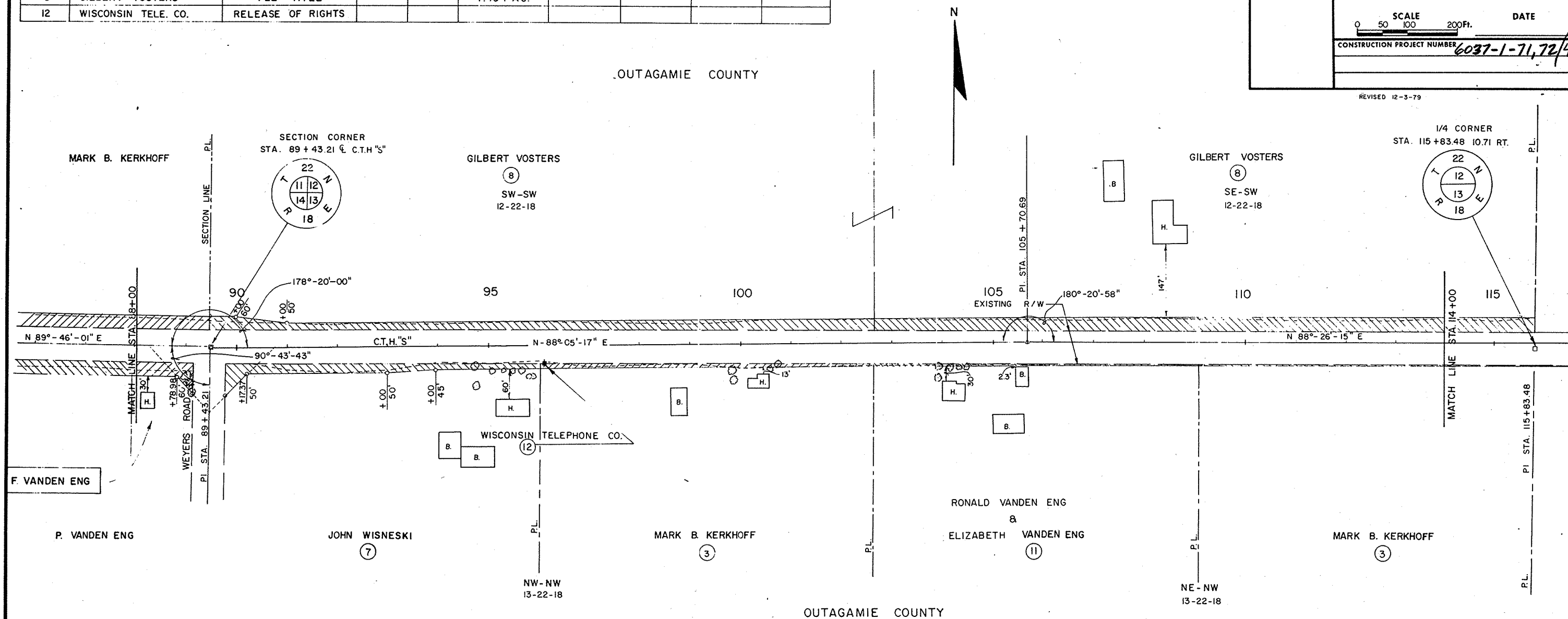


PARCEL NUMBER	OWNER	INTEREST REQUIRED	L.H.E. ACRES		ACRES REQUIRED			TOTAL REMAINING ACRES	OPERATIONS PROJECT NUMBER
			TEMP	PERM	NEW R/W REQUIRED	EXISTING R/W	TOTAL R/W REQUIRED		
1	ED EVERS	FEE TITLE			0.041 AC.				
2	WELDON HUSS	FEE TITLE			1.041 AC.				
3	MARK B. KERKHOFF	FEE TITLE			0.518 AC.				
4	ROBERT J. SCHAEZT	FEE TITLE			0.351 AC.				
5	E. VANDEN ENG	FEE TITLE			0.482 AC.				
6	F. VANDEN ENG	FEE TITLE			0.067 AC.				
12	WISCONSIN TEL. CO.	RELEASE OF RIGHTS							
21	WIS. ELEC. POWER CO.	RELEASE OF RIGHTS							



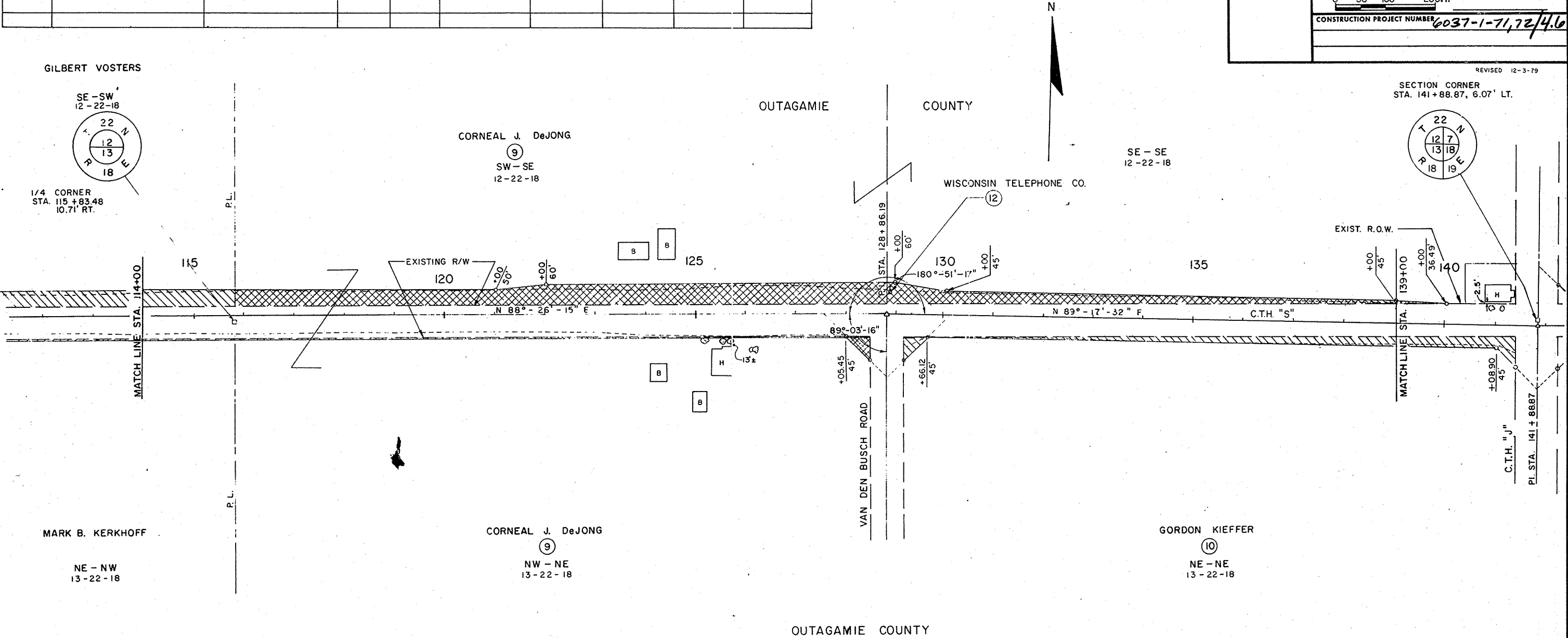
PARCEL NUMBER	OWNER	INTERESTS REQUIRED	L.H.E. ACRES		ACRES REQUIRED			TOTAL REMAINING ACRES	OPERATIONS PROJECT NUMBER
			TEMP	PERM.	NEW R/W REQUIRED	EXISTING R/W	TOTAL R/W REQUIRED		
3	MARK B. KERKOFF	FEE TITLE			SEE SHT 5.1				
11	RONALD VANDEN ENG	FEE TITLE			0.031 AC.				
7	JOHN WISNESKI	FEE TITLE			0.204 AC.				
8	GILBERT VOSTERS	FEE TITLE			1.494 AC.				
12	WISCONSIN TELE. CO.	RELEASE OF RIGHTS							

REVISION DATE	R/W PROJECT NUMBER 6037-1-00	SHEET NUMBER
	FEDERAL PROJECT NUMBER	5.2
PLAT OF RIGHT OF WAY REQUIRED FOR		
C.T.H. "S" OUTAGAMIE COUNTY		
SCALE 		DATE
CONSTRUCTION PROJECT NUMBER		6037-1-71, 72/4.



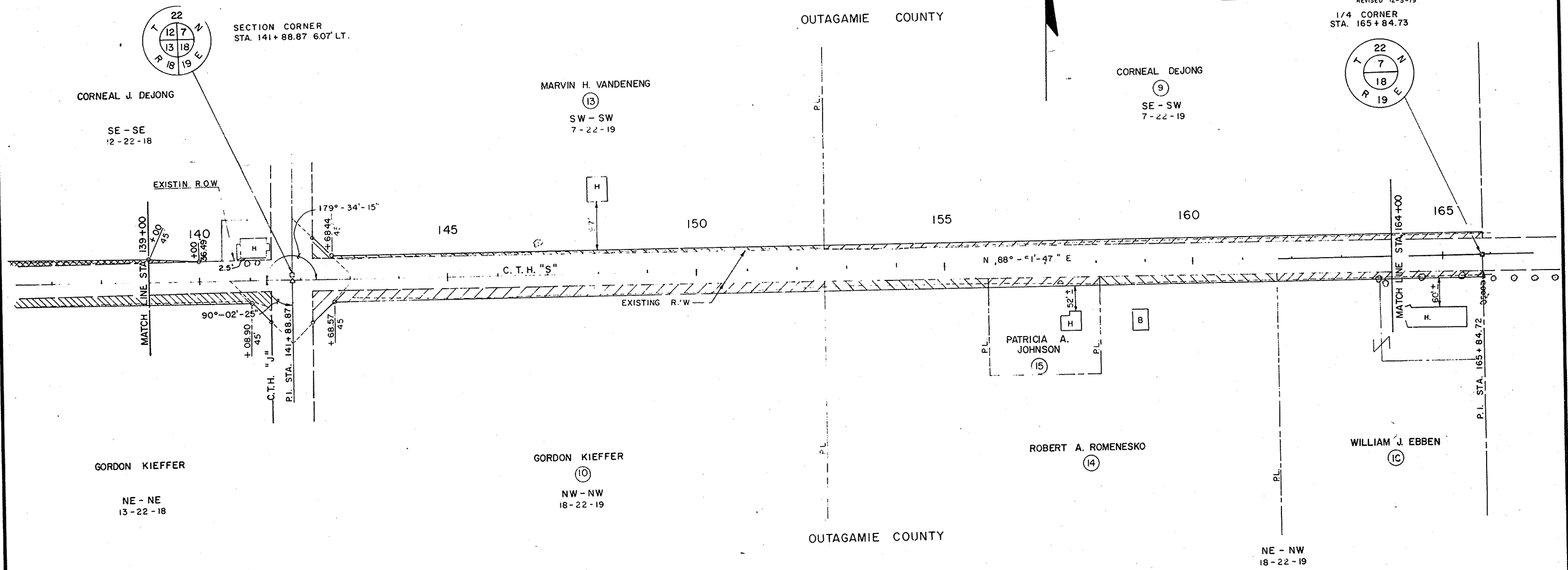
SCHEDULE OF LAND AND INTERESTS REQUIRED									
PARCEL NUMBER	OWNER	INTEREST REQUIRED	L.H.E. ACRES		ACRES REQUIRED			TOTAL REMAINING ACRES	OPERATIONS PROJECT NUMBER
			TEMP.	PERM.	NEW R/W REQUIRED	EXISTING R/W	TOTAL R/W REQUIRED		
9	CORNEAL J. DeJONG	FEE TITLE			2.639 AC.				
10	GORDON KIEFFER	FEE TITLE			2.448 AC.				
12	WISCONSIN TEL. CO.	RELEASE OF RIGHTS							

REVISION DATE	R/W PROJECT NUMBER 6037-1-00	SHEET NUMBER 5.3
	FEDERAL PROJECT NUMBER	
PLAT OF RIGHT OF WAY REQUIRED FOR C.T.H. "S" OUTAGAMIE COUNTY		
SCALE 0 50 100 200 Ft.		DATE
CONSTRUCTION PROJECT NUMBER 6037-1-71, 72/4.6		



SCHEDULE OF LAND AND INTERESTS REQUIRED									
PARCEL NUMBER	OWNER	INTEREST REQUIRED	L.H.E. ACRES		ACRES REQUIRED			TOTAL REMAINING ACRES	OPERATIONS PROJECT NUMBER
			TEMP.	PERM.	NEW R/W REQUIRED	EXISTING R/W	TOTAL R/W REQUIRED		
9	CORNEAL DeJONG	FEE TITLE			SEE SHT. 5.3				
10	GORDON KIEFFER	FEE TITLE			SEE SHT. 5.3				
13	MARVIN H. VANDENENG	FEE TITLE			0.190 AC.				
14	ROBERT A. ROMENESKO	FEE TITLE			0.225 AC.				
15	PATRICIA A. JOHNSON	FEE TITLE			0.073 AC.				
16	WILLIAM J. EBBEN	FEE TITLE			0.121 AC.				

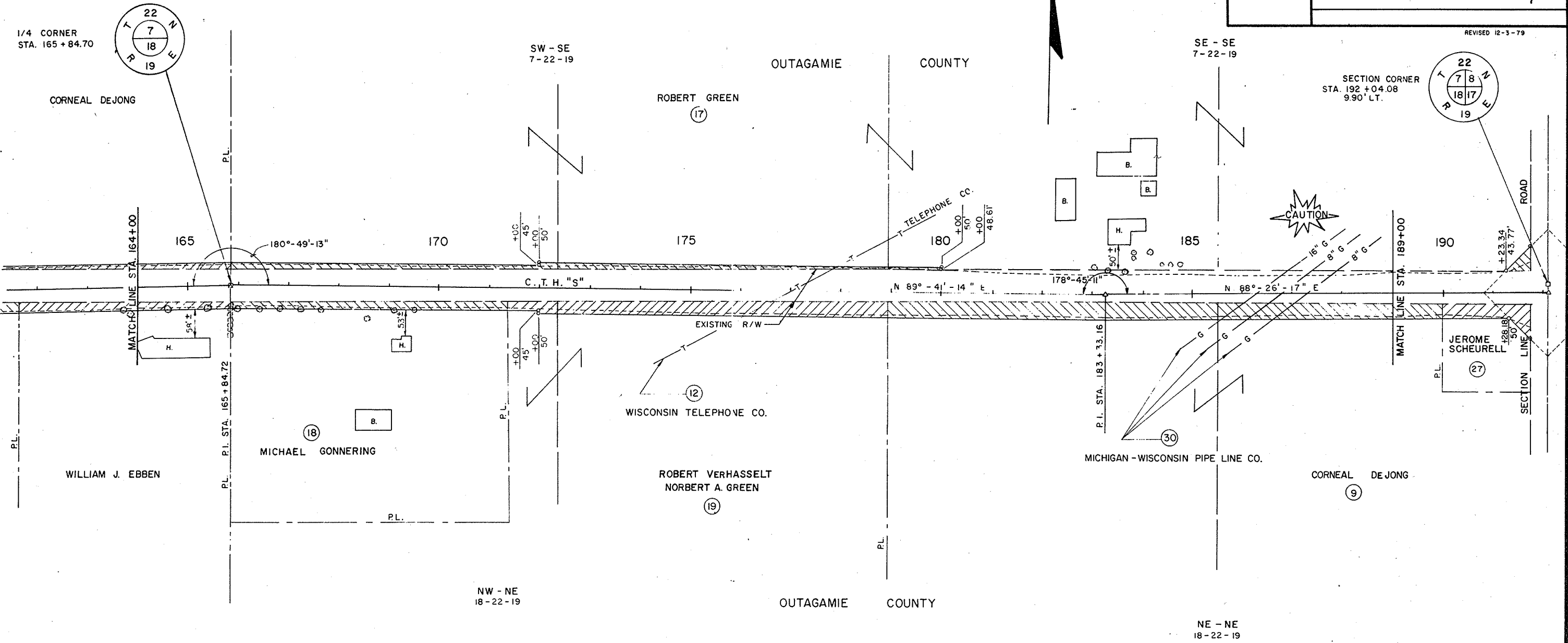
REVISION DATE	R/W PROJECT NUMBER 6037-1-00	SHEET NUMBER 5.4
FEDERAL PROJECT NUMBER		
PLAT OF RIGHT OF WAY REQUIRED FOR C.T.H. "S" OUTAGAMIE COUNTY		
SCALE 0 50 100 200 Ft.		DATE
CONSTRUCTION PROJECT NUMBER 6037-1-71, 72/4.7		



SCHEDULE OF LAND AND INTERESTS REQUIRED								
PARCEL NUMBER	OWNER	INTEREST REQUIRED	L. H. E. ACRES		ACRES REQUIRED			OPERATIONS PROJECT NUMBER
			TEMP.	PERM.	NEW R/W REQUIRED	EXISTING R/W	TOTAL R/W REQUIRED	
9	CORNEAL DE JONG	FEE TITLE			SEE SHT 5.3			
17	ROBERT J. GREEN	FEE TITLE			0.253 AC.			
18	MICHAEL GONNERING	FEE TITLE			0.165 AC.			
19	R. VERHASSELT & N. GREEN	FEE TITLE			0.495 AC.			
27	JEROME SCHEURELL	FEE TITLE			0.134 AC.			
12	WISCONSIN TEL. CO.	RELEASE OF RIGHTS						
30	MICH.-WISC. PIPE LINE CO.	RELEASE OF RIGHTS						

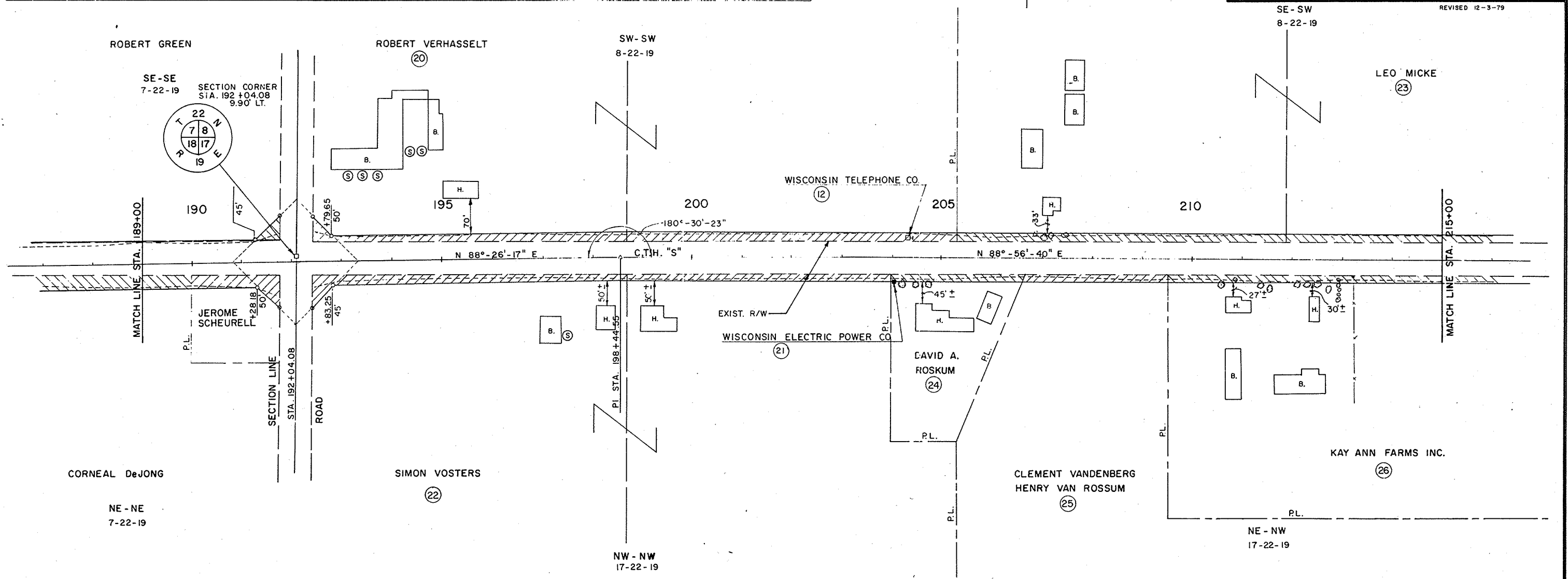
REVISION DATE	R/W PROJECT NUMBER 6037-1-00	SHEET NUMBER 5.5
	FEDERAL PROJECT NUMBER	
	PLAT OF RIGHT OF WAY REQUIRED FOR C.T.H. "S" OUTAGAMIE COUNTY	
	SCALE 0 50 100 200 Ft.	DATE

CONSTRUCTION PROJECT NUMBER **6037-1-71,72,4,8**

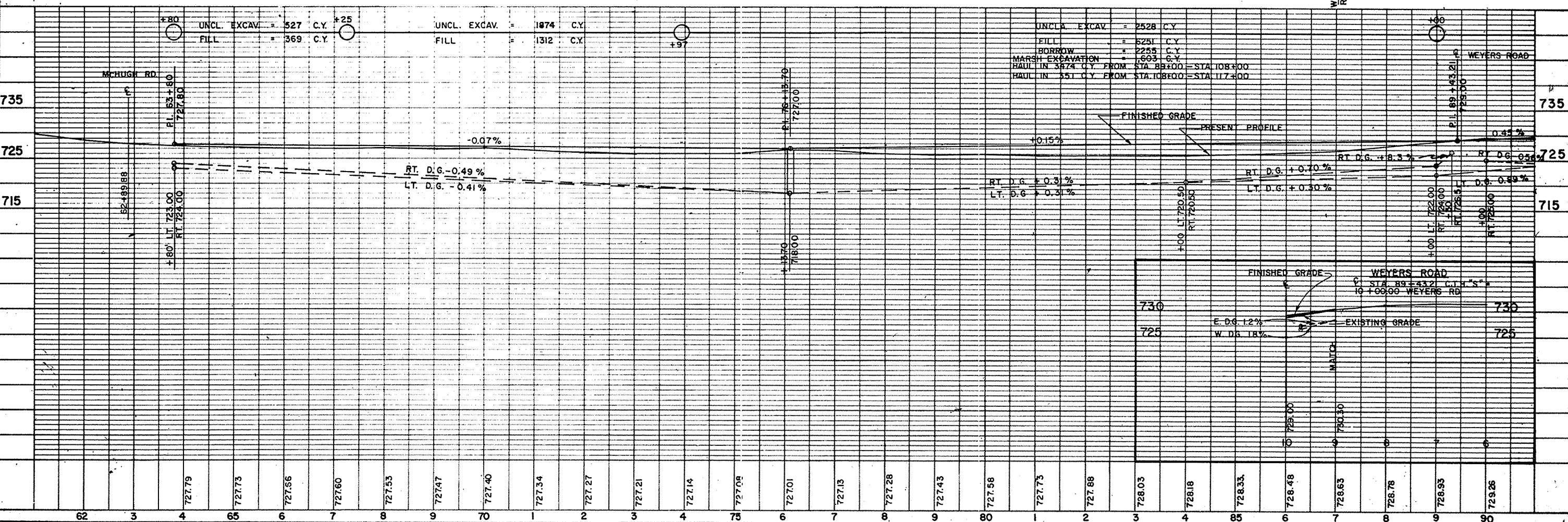


SCHEDULE OF LAND INTERESTS REQUIRED								
PARCEL NUMBER	OWNER	INTEREST REQUIRED	L.H.E. ACRES		ACRES REQUIRED			OPERATIONS PROJECT NUMBER
			TEMP	PERM	NEW R/W REQUIRED	EXISTING R/W	TOTAL R/W REQUIRED	
20	ROBERT VERHASSELT	FEE TITLE			0.391 AC.			
22	SIMON VOSTERS	FEE TITLE			0.468 AC.			
23	LEO MICKE	FEE TITLE			0.484 AC.			
24	DAVID ROSKUM	FEE TITLE			0.081 AC.			
25	C. VANDENBERG & H. VAN-ROSSUM	FEE TITLE			0.098 AC.			
26	KAY ANN FARMS INC.	FEE TITLE			0.265 AC.			
12	WISCONSIN TELE. CO.	RELEASE OF RIGHTS						
21	WIS. ELEC. POWER CO.	RELEASE OF RIGHTS						

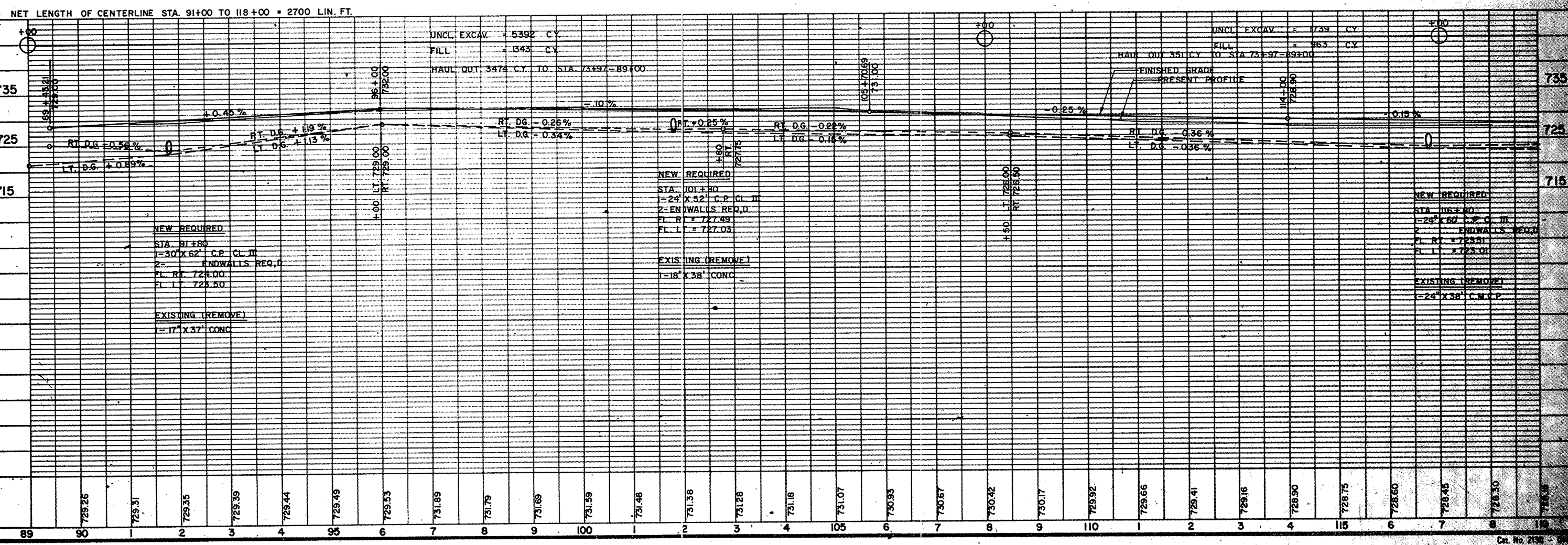
REVISION DATE	R/W PROJECT NUMBER 6037-1-00	SHEET NUMBER 5.6
FEDERAL PROJECT NUMBER		
PLAT OF RIGHT OF WAY REQUIRED FOR C.T.H. "S" OUTAGAMIE COUNTY		
SCALE 0 50 100 200 Ft.		DATE
CONSTRUCTION PROJECT NUMBER 6037-1-71,72/4.9		



NO.	STATION	DESCRIPTION	ELEVATION
6-A	88 + 25	N.E. CORNER, NORTH DOOR SLAB 90' RT.	728.39
1	62 + 55	PK IN PP. (Q200-246-22) NORTH "S" 25' LT.	728.06
4	76 + 13	S.W. CORNER WINGWALL BOX CULVERT	724.36

[illegible]

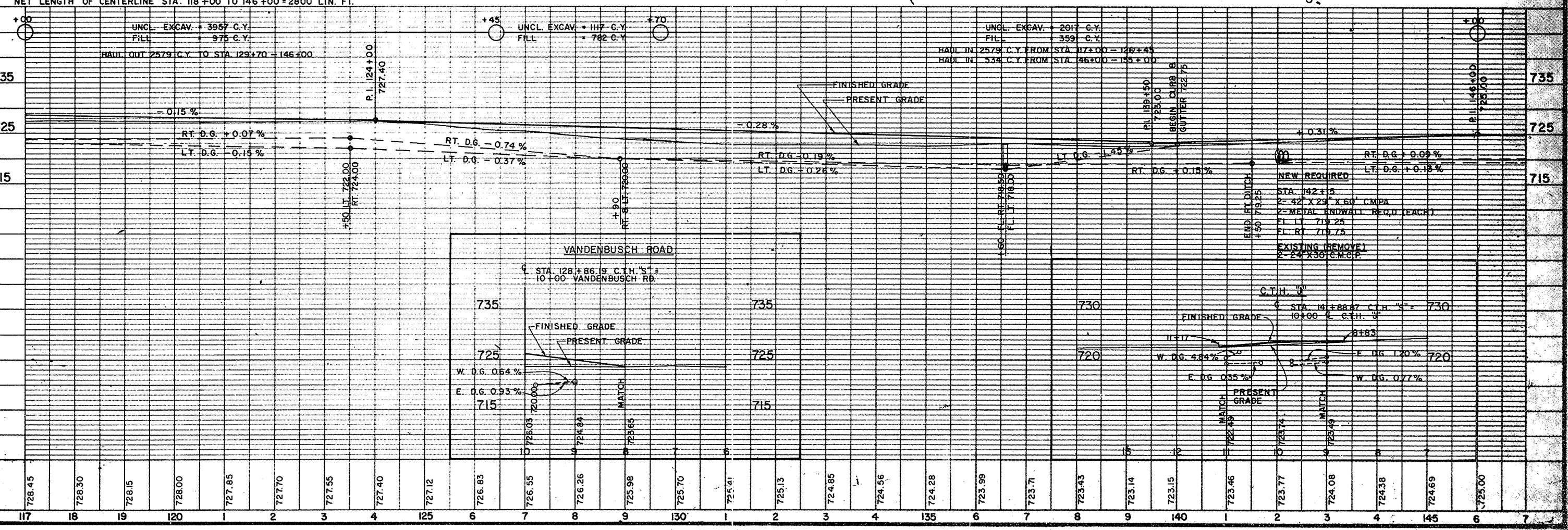
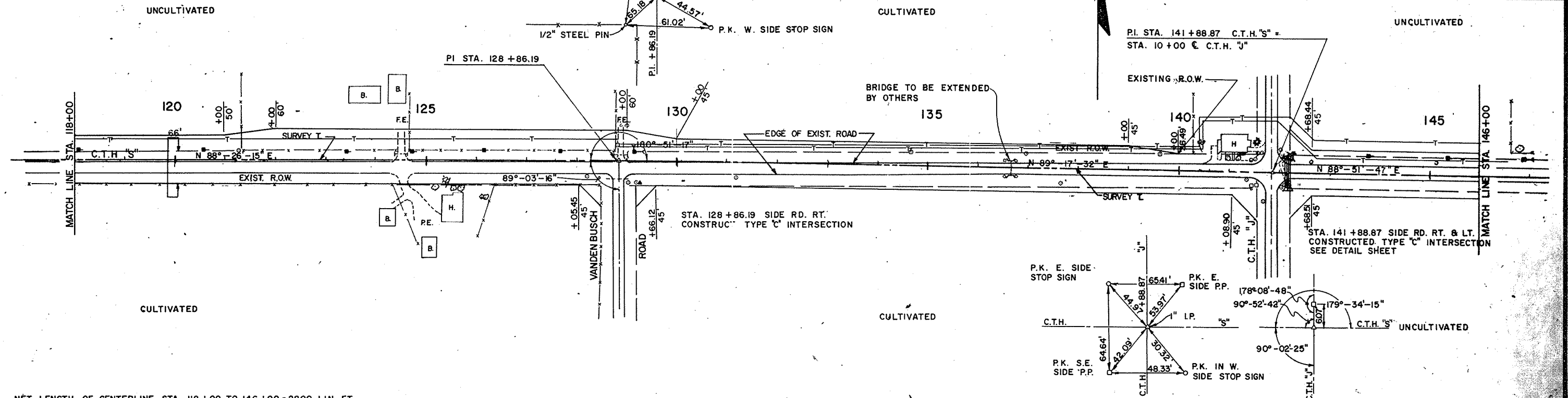
STATE PROJECT NUMBER	SHEET NO.
6037 -1 -71-72	5.1



BENCH MARKS

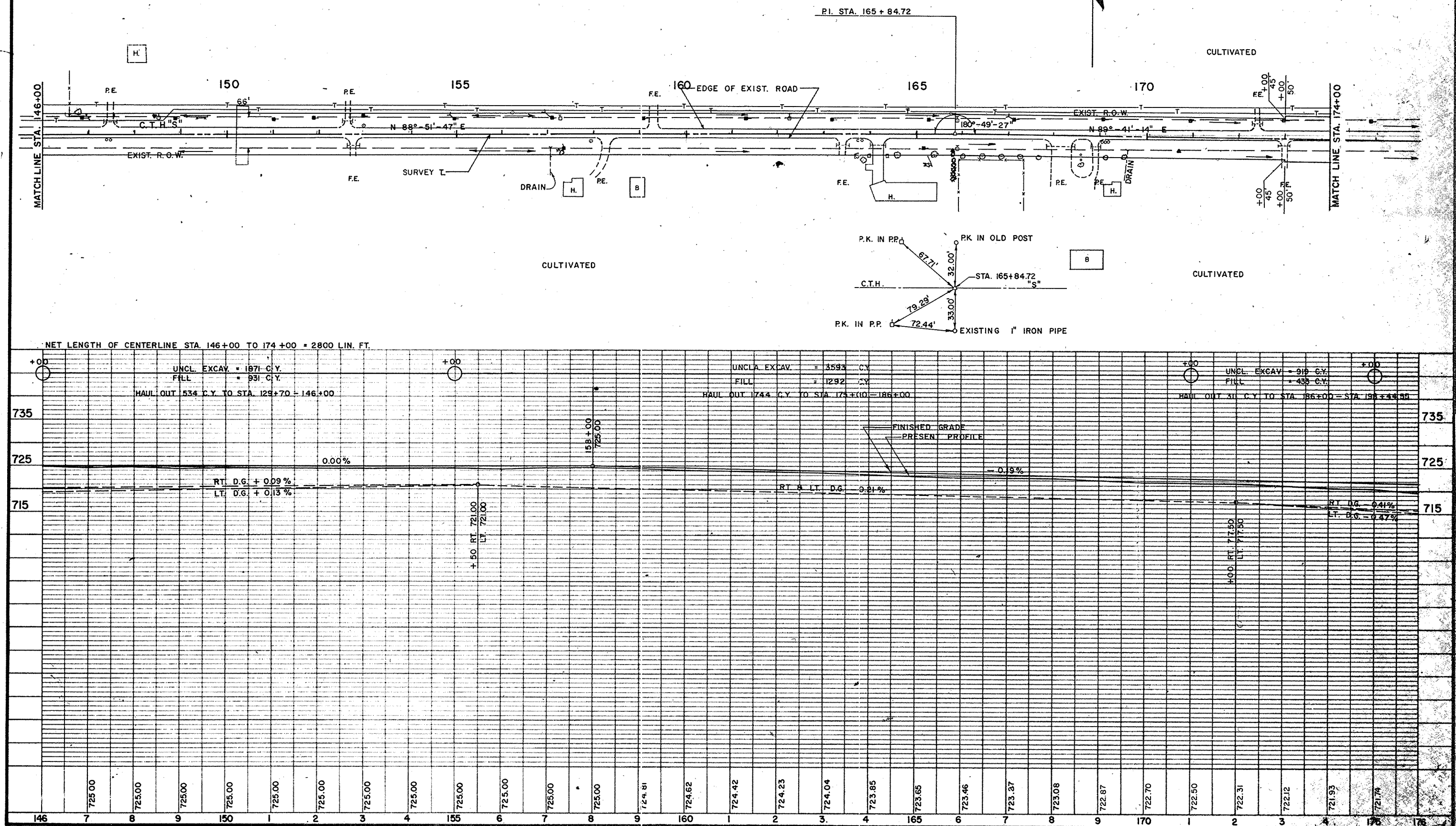
NO.	STATION	DESCRIPTION	ELEVATION
14-A	125 + 60	N.E. CORNER TOP STEP FRONT PORCH S. OF "S" 65' RT.	730.76
17-A	141 + 85	S.W. CORNER GARAGE APRON N. OF "S" 38' LT.	722.93

STATE PROJECT NUMBER	SHEET NO.
6037-1-71-72	5,2



BENCH MARKS			
NO.	STATION	DESCRIPTION	ELEVATION
19-A	148+00	S.W. COR. TOP OF BOTTOM STEP FRONT PORCH	725.22
20-A	157+50	FAR NW COR. PORCH SQ. "S"	727.17
21-A	164+50	S.W. COR. TOP OF BOTTOM STEP SQ. "S"	724.35
22-A	169+40	N.W. COR. TOP OF BOTTOM STEP SQ. "S"	724.71

STATE PROJECT NUMBER	SHEET NO.
6037-1-71-72	5.3



BENCH MARKS

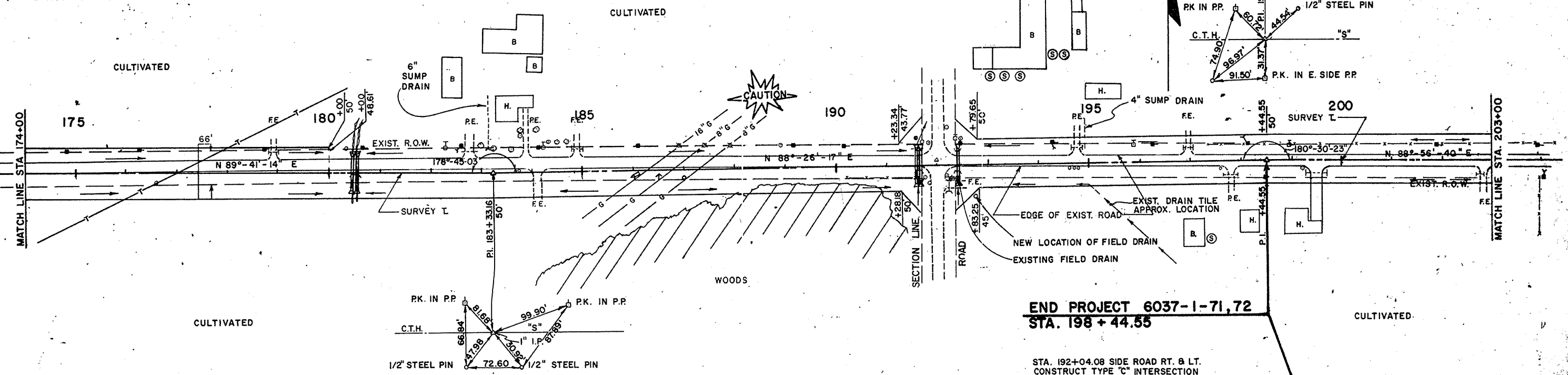
NO.	STATION	DESCRIPTION	ELEVATION
27-A	195+25	S.E. COR. TOP OF BOTTOM STEP. NO. OF "S"	721.28
25-A	183+50	S.E. COR. TOP OF BOTTOM STEP. FR. POR. NO. "S"	721.24

STATE PROJECT NUMBER

6037-1-71-72

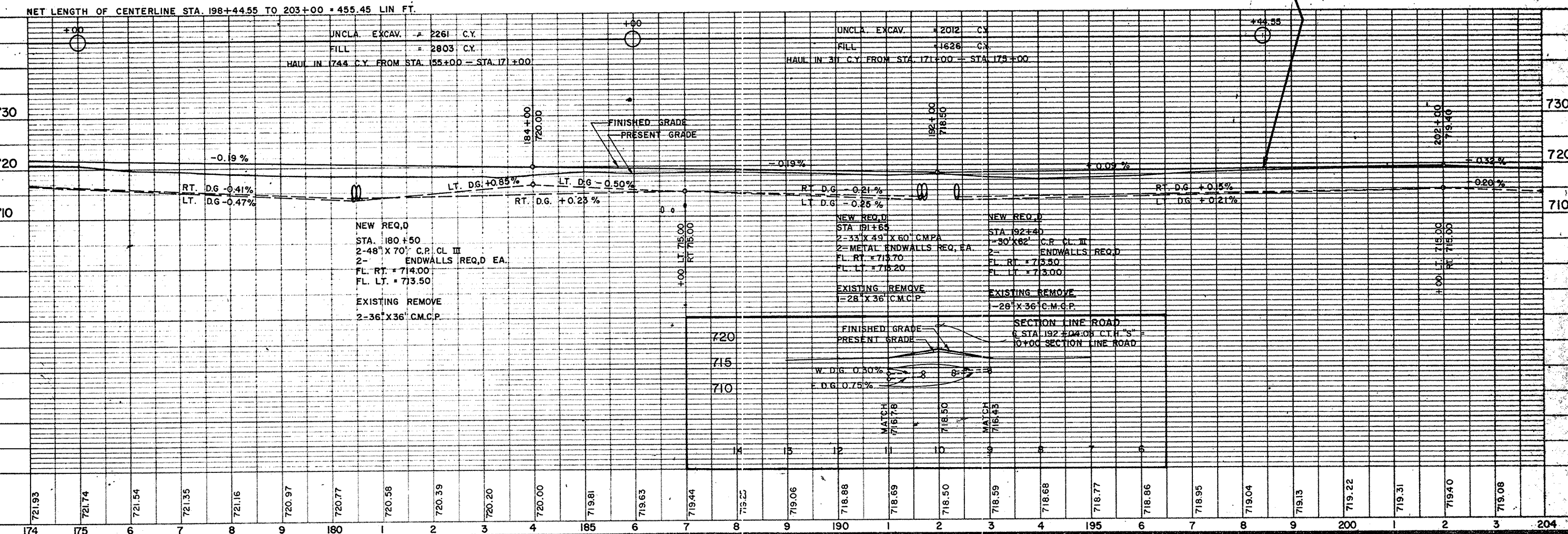
SHEET NO.

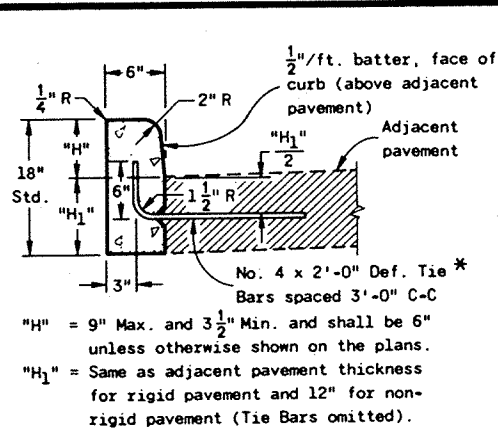
5.4



END PROJECT 6037-1-71,72
STA. 198+44.55

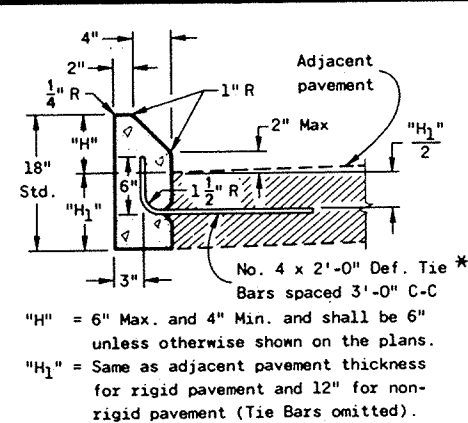
STA. 192+04.08 SIDE ROAD RT. & LT.
CONSTRUCT TYPE "C" INTERSECTION





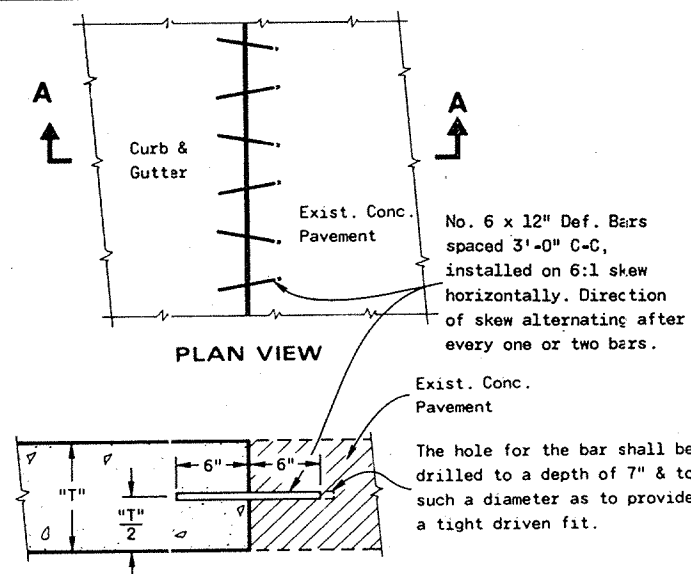
TYPE "A"
(INCLUDING TIE BARS)

CONCRETE CURB



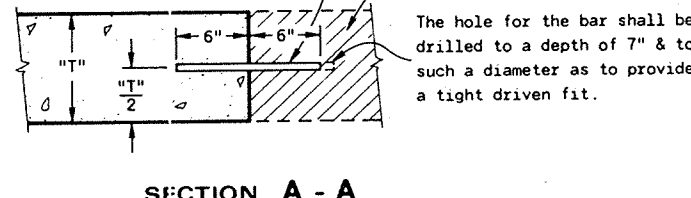
TYPE "D"
(EXCLUDING TIE BARS)

CONCRETE CURB



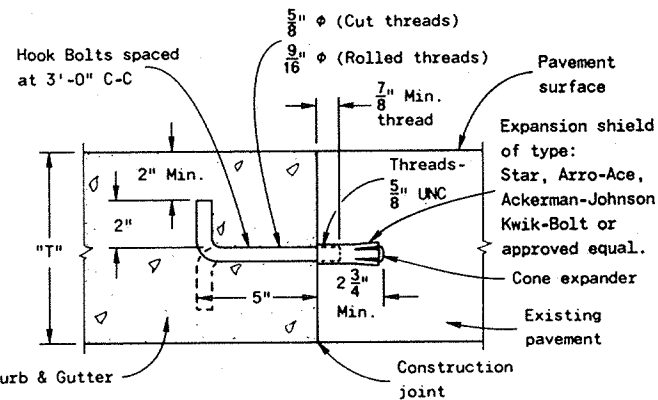
TYPE "G"
(INCLUDING TIE BARS)

CONCRETE CURB



TYPE "J"
(EXCLUDING TIE BARS)

PAVEMENT TIES EXISTING PAVEMENT (Driven Tie Bar Alternate)



PAVEMENT TIES EXISTING PAVEMENT (Hook Bolt Alternate)

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.

Joints shall not be sealed in concrete curb, or concrete curb & gutter.

* In lieu of tie bars placed during construction, the Driven Tie Bar Alternate may be used. Contractor may drill either concrete curb, concrete curb & gutter, or concrete pavement.

Where the adjacent pavement will be bituminous concrete, 3/4 inch expansion joints shall be installed in the Concrete Curb or Concrete Curb & Gutter. These expansion joints shall be located about 3 feet from each end of all catch basins or inlets, at all locations where tangent and radial curb and gutter meet, and on tangent sections at a maximum spacing of 300 feet.

The bottom of the curb and gutter may be constructed parallel to subgrade or base course provided a minimum of 6 inches depth of concrete is maintained at the flow line.

INTEGRAL CURB AND GUTTER ALTERNATE
Unless otherwise specified in the contract, Integral Curb & Gutter may be built as an alternate to Curb & Gutter.

Integral Curb & Gutter shall be measured and paid for as Curb & Gutter.

** Pay limits for Concrete Integral Curb & Gutter.

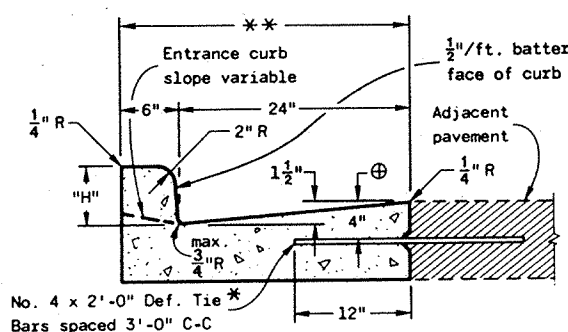
The limits of the base course, if used, are shown on the typical cross sections elsewhere in the plans. Any additional width of base course necessary to accommodate paving equipment will be at the contractor's expense.

Pavement reinforcing steel and load transfer dowels will not be required within the pay limits of Integral Curb & Gutter.

Contraction, construction or expansion joints shall be continuous through the Integral Curb & Gutter. The joints in Integral Curb & Gutter shall be spaced the same as the joints in the pavement.

The thickness of curb & gutter at the pavement edge shall be 7 1/2 inch min.

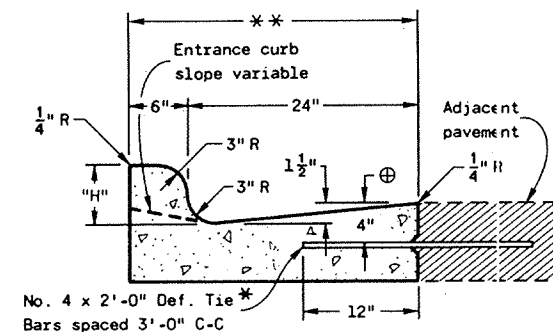
⊕ = Or center of pavement, whichever is less.



TYPE "A"
(INCLUDING TIE BARS)

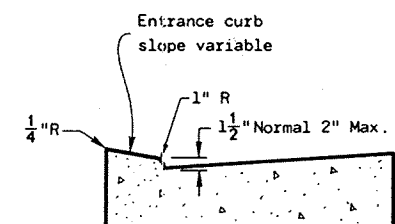
TYPE "D"
(EXCLUDING TIE BARS)

CONCRETE CURB & GUTTER 30"

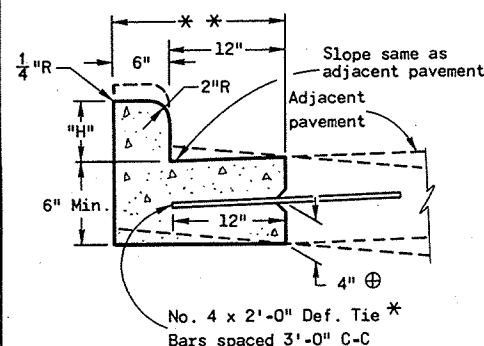


TYPE "K"
(INCLUDING TIE BARS)

TYPE "L"
(EXCLUDING TIE BARS)



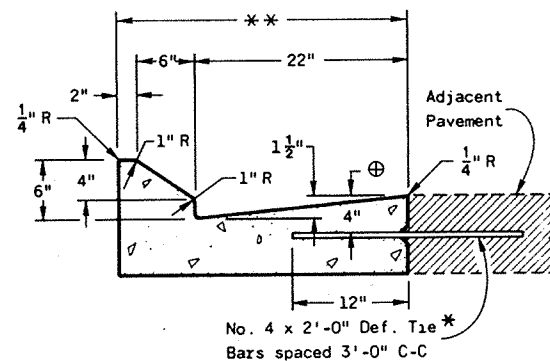
ALTERNATE ENTRANCE CURB
(When directed by the Engineer)



TYPE "A"
(INCLUDING TIE BARS)

TYPE "D"
(EXCLUDING TIE BARS)

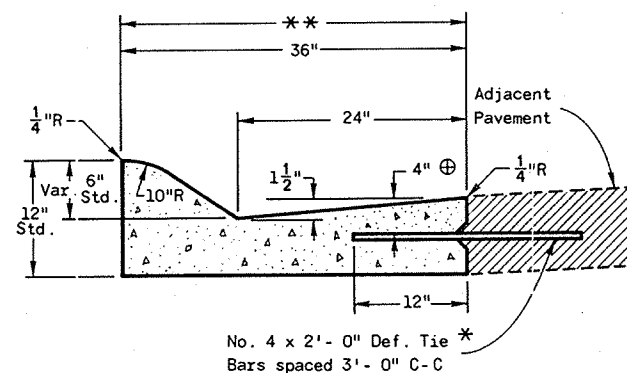
CONCRETE CURB & GUTTER 18"



TYPE "G"
(INCLUDING TIE BARS)

TYPE "J"
(EXCLUDING TIE BARS)

CONCRETE CURB & GUTTER 30"



TYPE "A"
(INCLUDING TIE BARS)

TYPE "D"
(EXCLUDING TIE BARS)

CONCRETE CURB & GUTTER 36"

CONCRETE CURB, CONCRETE CURB & GUTTER, or INTEGRAL CURB

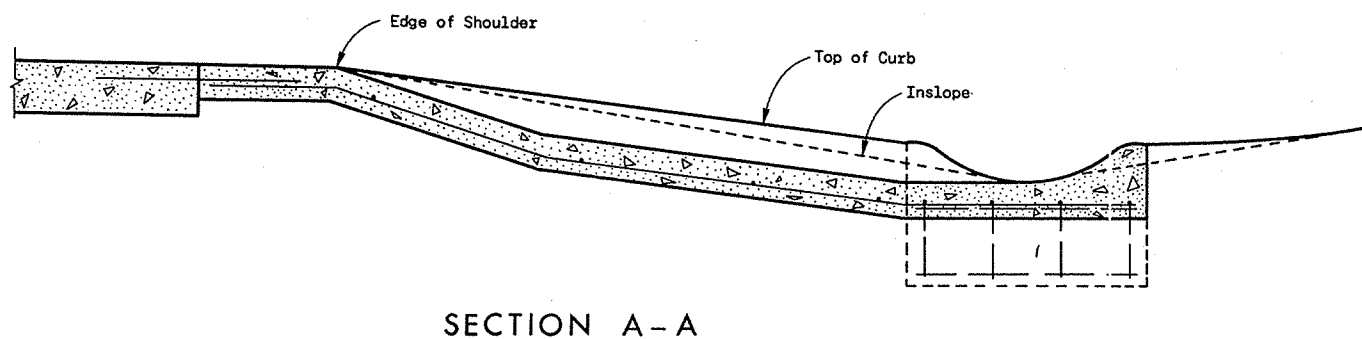
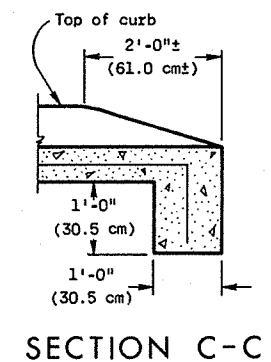
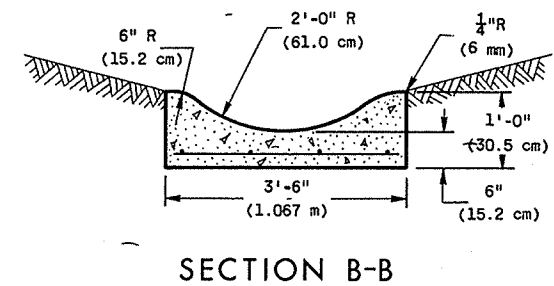
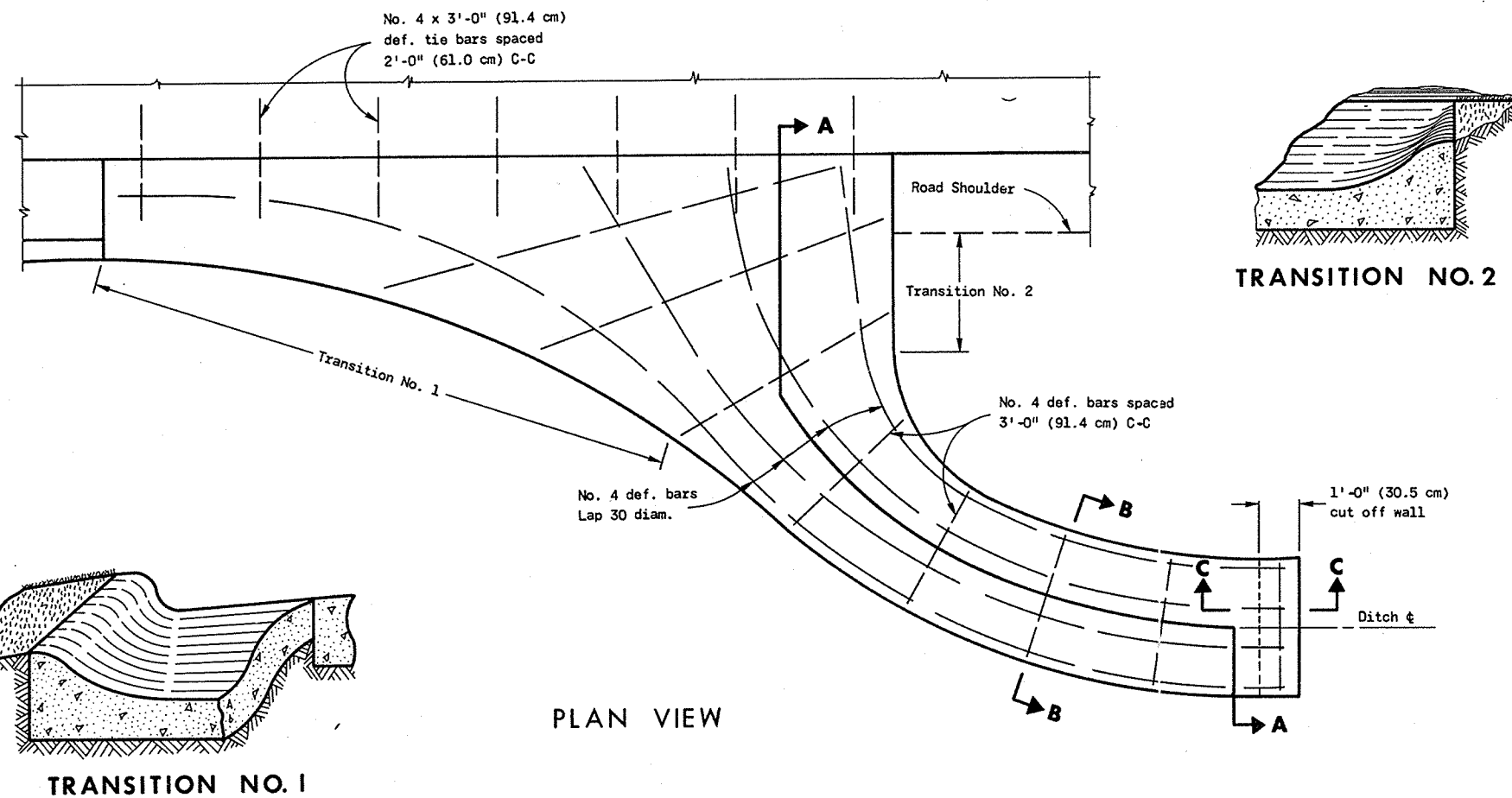
State of Wisconsin
Department of Transportation

APPROVED
4-23-80
DATE

CHIEF DESIGN ENGINEER

FHWA

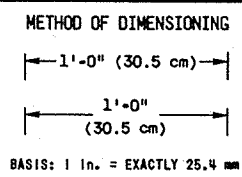
S.D.D. 8 D 1-5



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.

Typical design only; exact design and flume length may be modified by the Engineer to meet field conditions.



CONCRETE SURFACE DRAIN

State of Wisconsin
Department of Transportation
Division of Highways

RECOMMENDED FOR APPROVAL:

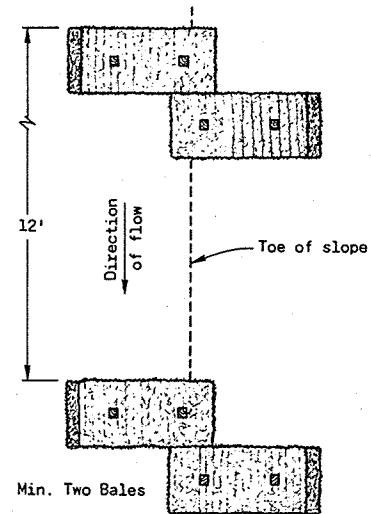
1-1-74
DATE

J.C. Hennrich
CHIEF OF FACILITIES DEVELOPMENT

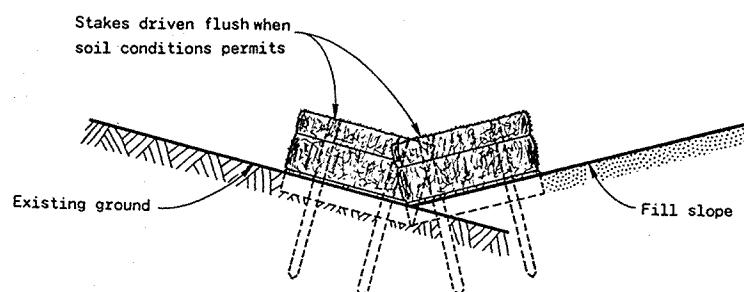
APPROVED

1-15-74
DATE

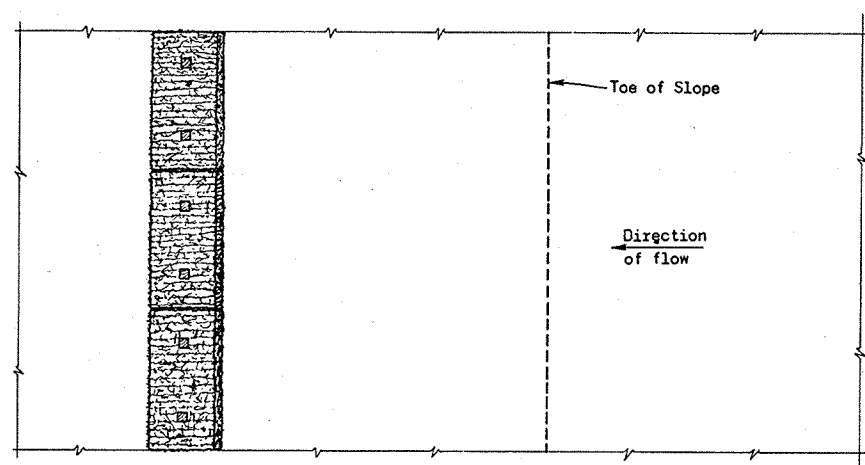
H. J. Siedler
STATE HIGHWAY ENGINEER



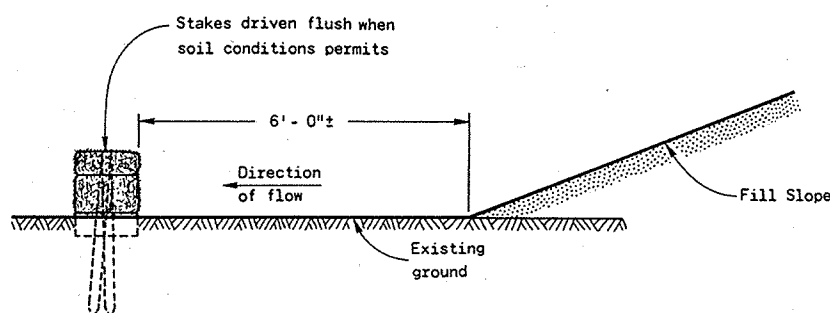
PLAN VIEW



FRONT ELEVATION
WHEN EXISTING GROUND
SLOPES TOWARD FILL SLOPE

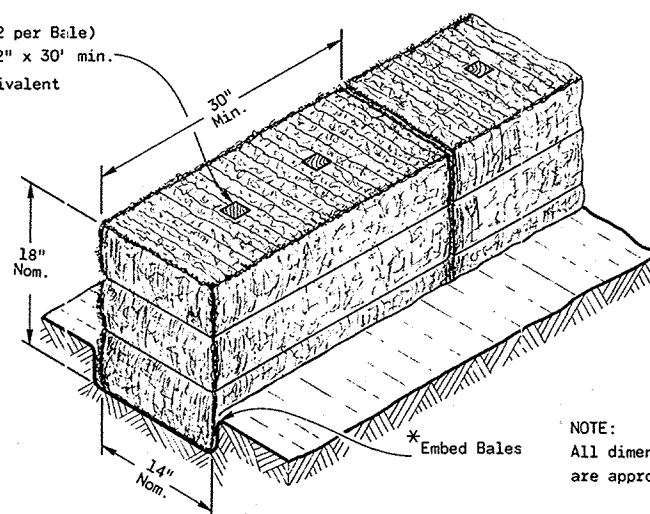


PLAN VIEW

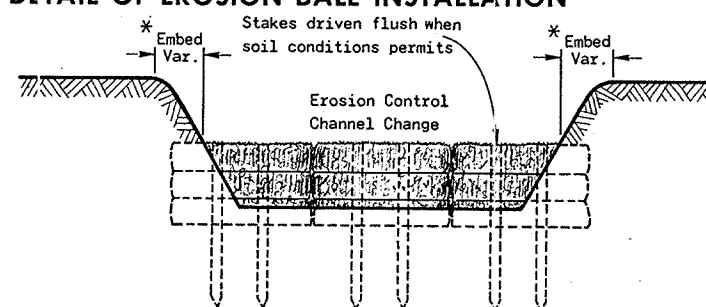


FRONT ELEVATION
EROSION BALES AT TOE OF SLOPE
WHEN EXISTING GROUND SLOPES AWAY FROM FILL SLOPE

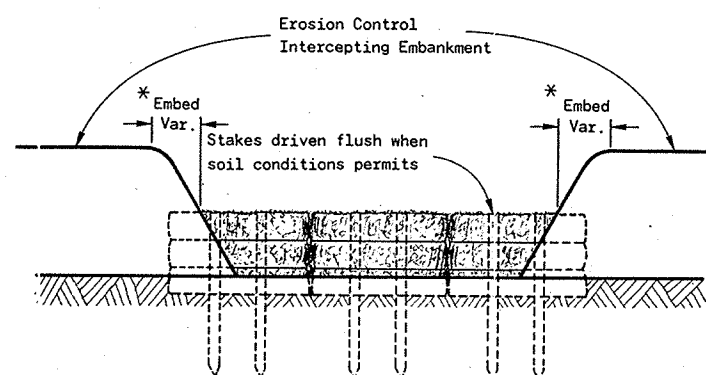
Wood Stakes (2 per Bale)
Nominal 2" x 2" x 30' min.
length or equivalent



DETAIL OF EROSION BALE INSTALLATION



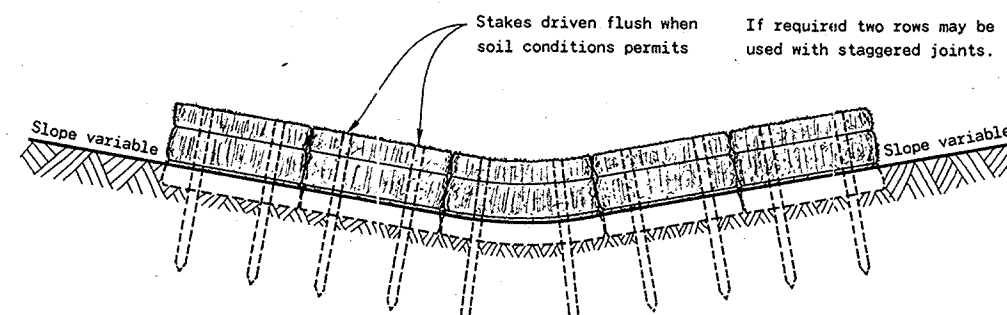
EROSION CONTROL CHANNEL CHANGE



EROSION CONTROL INTERCEPTING EMBANKMENT



PLAN VIEW



FRONT ELEVATION
EROSION BALES ACROSS DITCH BOTTOM

GENERAL NOTES

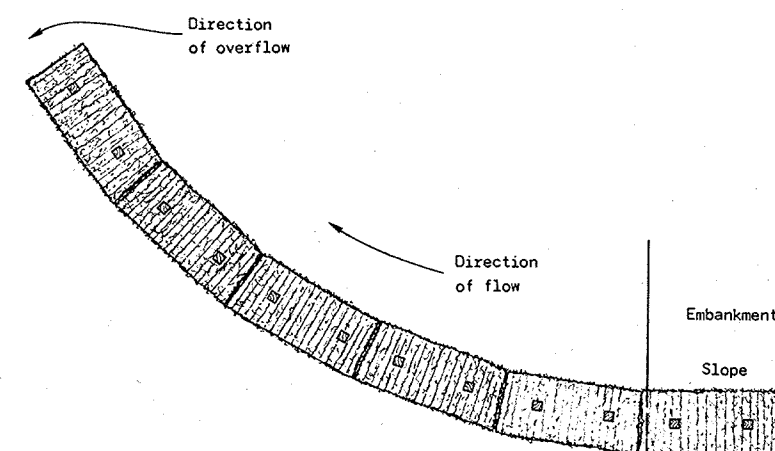
Details of construction, materials and workmanship not shown on this drawing shall conform to the pertinent requirements of the Standard Specifications and the applicable Special Provisions.

Bales shall be placed end to end or overlapping at right angles to the direction of flow and far enough up the sides of the ditch to prevent eroding around ends.

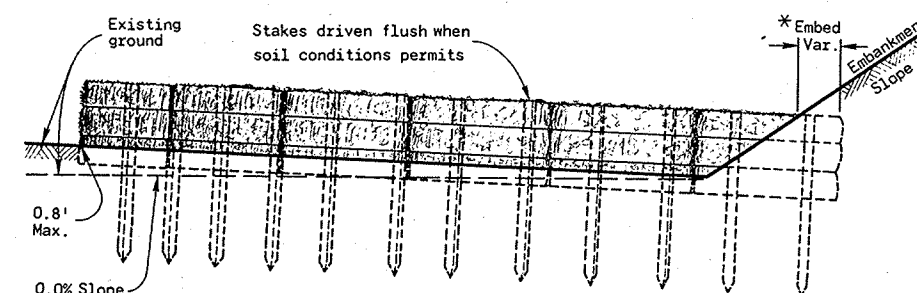
Bales shall be placed with twine or tie wires parallel to the ground.

Stakes to be battered in opposite directions.

* As determined by the Engineer.



PLAN VIEW



FRONT ELEVATION

EROSION BALES AT TOE OF SLOPE

TYPICAL INSTALLATIONS OF EROSION BALES

State of Wisconsin
Department of Transportation
Division of Highways

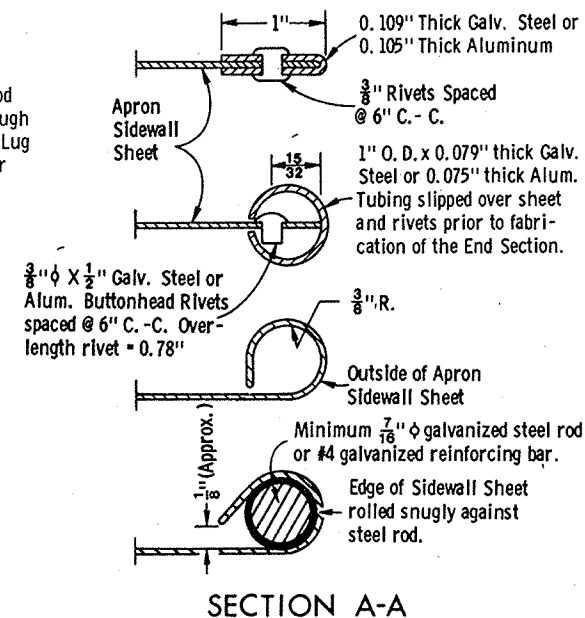
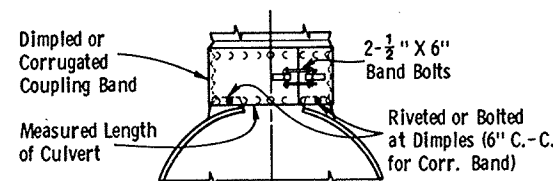
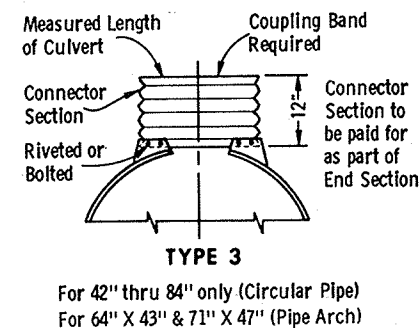
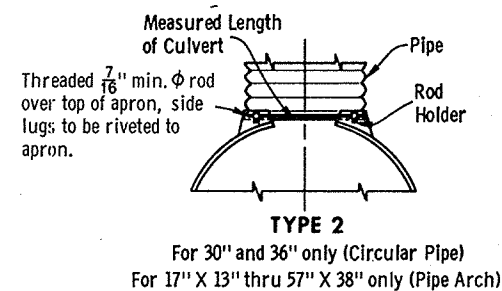
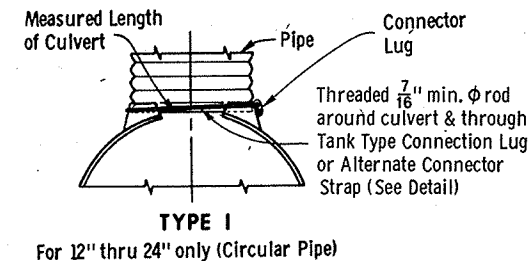
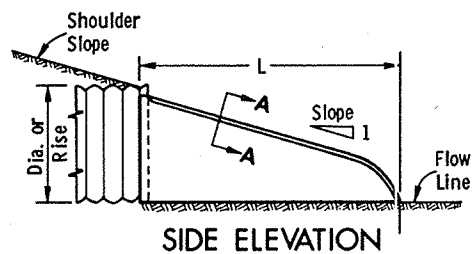
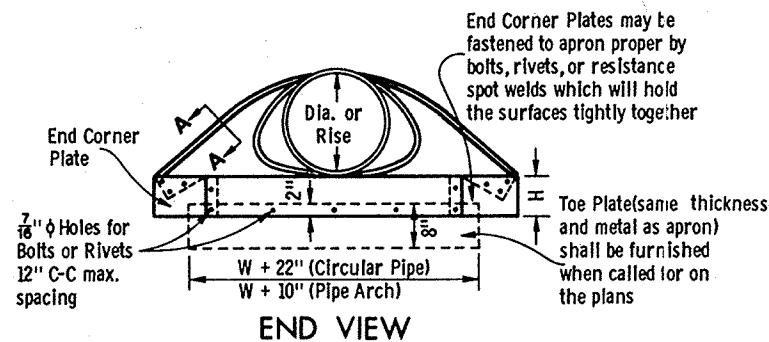
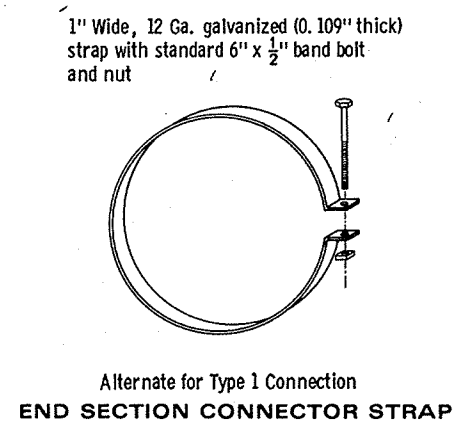
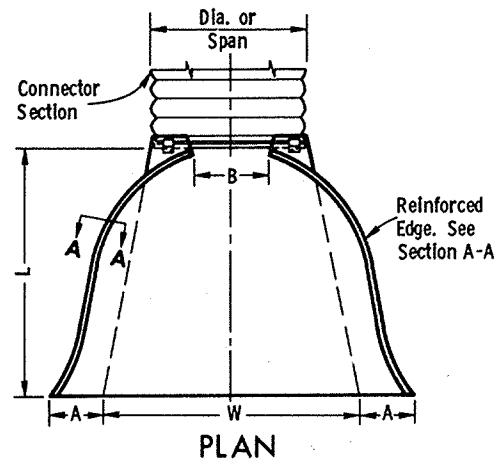
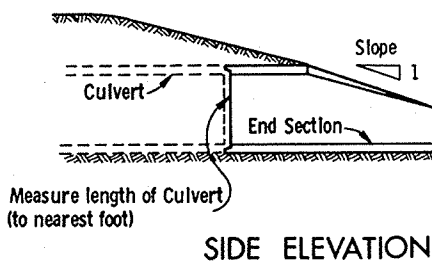
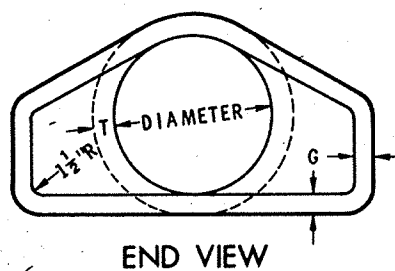
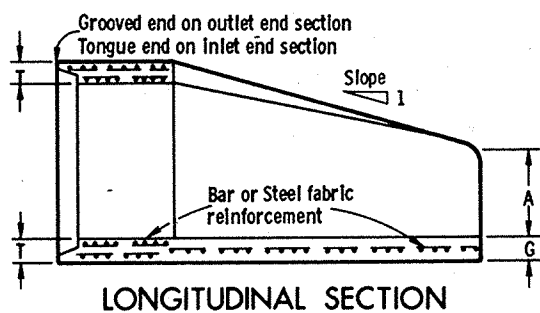
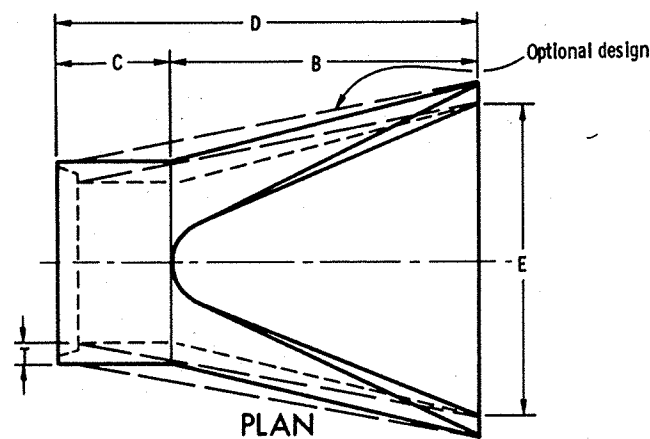
RECOMMENDED FOR APPROVAL:

10/14/75
DATE

L.C. McDaniel
CHIEF OF FACILITIES DEVELOPMENT

APPROVED
10/16/75
DATE

W. J. Sudler
STATE HIGHWAY ENGINEER



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 galvanized steel or aluminum culvert pipe or vice versa.

Galvanized steel or aluminum endwalls shall normally be installed on culvert pipe of the same metal. The use of galvanized steel endwalls on aluminum pipes is permitted, provided the two metals at the joint interface are kept separated by a suitable insulating material approximately 1/8" thick or greater. Such material would be an asphalt impregnated fabric, a sheet plastic, a rubber gasket or other nondegradable material of substantial strength.

When two or more 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.

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.

METAL APRON ENDWALLS FOR PIPE ARCHES

METAL OR ALUMINUM APRON ENDWALLS FOR CIRCULAR PIPES

NOTE: All splices to be lap riveted or bolted

PIPE -- ARCH DIMENSIONS	MIN. METAL THICK.	DIMENSIONS					APPROX. SLOPE
		A	B	H	L	W	
17"	13"	0.064	7"	9"	6"	19"	2 1/2 to 1
21"	15"	0.064	7"	10"	6"	23"	2 1/2 to 1
24"	18"	0.064	8"	12"	6"	28"	2 1/2 to 1
28"	20"	0.064	9"	14"	6"	32"	2 1/2 to 1
35"	24"	0.079	10"	16"	6"	39"	2 1/2 to 1
42"	29"	0.079	12"	18"	8"	46"	2 1/2 to 1
49"	33"	0.109	13"	21"	9"	53"	2 1/2 to 1
57"	38"	0.109	18"	26"	12"	63"	2 1/2 to 1
64"	43"	0.105	18"	30"	12"	70"	2 1/2 to 1
71"	47"	0.105	18"	33"	12"	77"	2 1/2 to 1
77"	52"	0.109	18"	36"	12"	77"	2 to 1
83"	57"	0.109	18"	39"	12"	77"	2 to 1

NOTE: All splices to be lap riveted or bolted

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

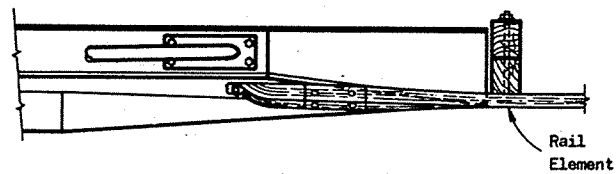
NOTE: All splices to be lap riveted or bolted

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"	3 to 1
18"	990	2 1/2"	9"	27"	46"	73"	36"	2 1/2"	3 to 1
21"	1,280	2 3/4"	9"	36"	37 1/2"	73 1/2"	42"	2 3/4"	3 to 1
24"	1,520	3"	9 1/2"	43 1/2"	30"	73 1/2"	48"	3"	3 to 1
27"	1,930	3 1/4"	10 1/2"	49 1/2"	24"	73 1/2"	54"	3 1/4"	3 to 1
30"	2,190	3 1/2"	12"	54"	19 3/4"	73 3/4"	60"	3 1/2"	3 to 1
36"	4,100	4"	15"	63"	34 3/4"	97 3/4"	72"	4"	3 to 1
42"	5,380	4 1/2"	21"	63"	35"	98"	78"	4 1/2"	3 to 1
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 2/5 to 1
60"	8,730	6"	30"	60"	39"	99"	96"	5"	2 to 1
66"	10,630	6 1/2"	34"	72"	78"	102"	102"	5 1/2"	2 to 1
72"	12,520	7"	36"	78"	21"	108"	108"	6"	2 to 1
78"	14,430	7 1/2"	36"	78"	21"	114"	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

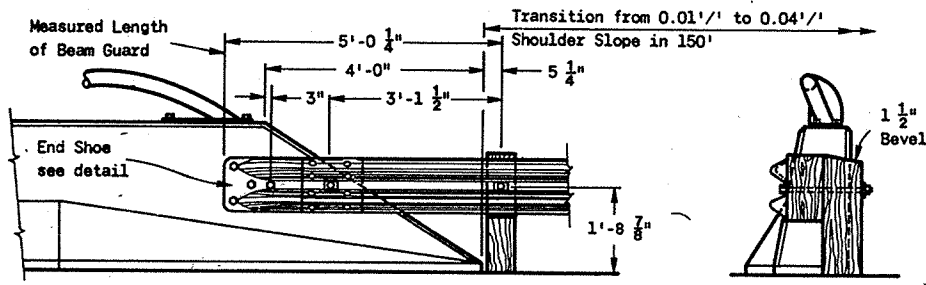
** Minimum
* Maximum

REINFORCED CONCRETE APRON ENDWALLS

APRONS FOR CULVERT PIPE AND PIPE ARCH	
State of Wisconsin Department of Transportation Division of Highways	
APPROVED 7-14-78 DATE	<i>Ed Baker</i> SUPERVISING DEVELOPMENT ENGINEER
APPROVED 7-17-78 DATE	<i>D. J. Stank</i> CHIEF OF BUREAU DEVELOPMENT
CHWA	



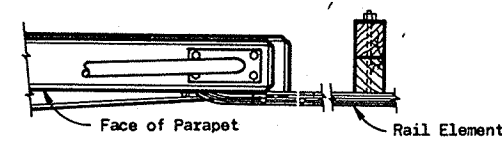
PLAN VIEW



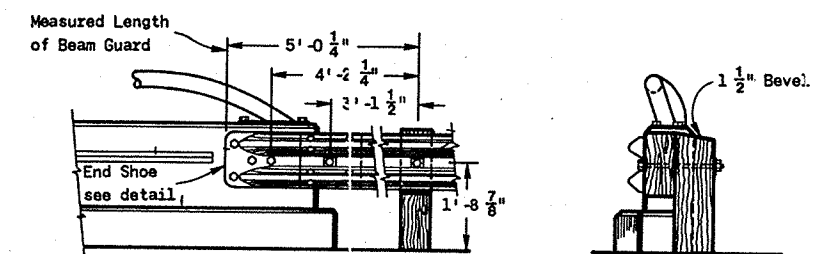
FRONT ELEVATION

END ELEVATION

STRUCTURE MOUNTING DETAIL
SLOPING TYPE PARAPET WALL



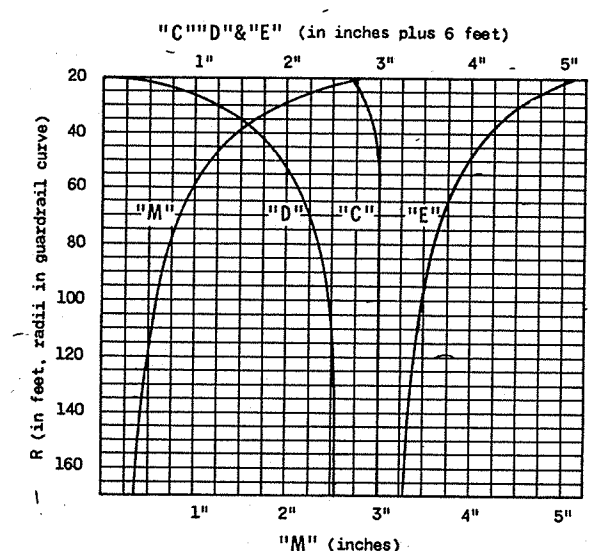
PLAN VIEW



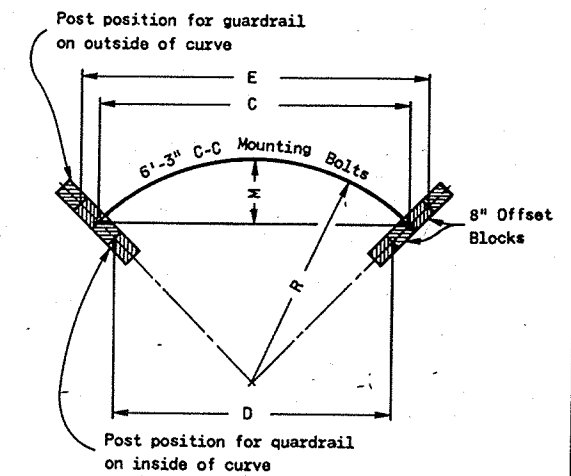
FRONT ELEVATION

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.

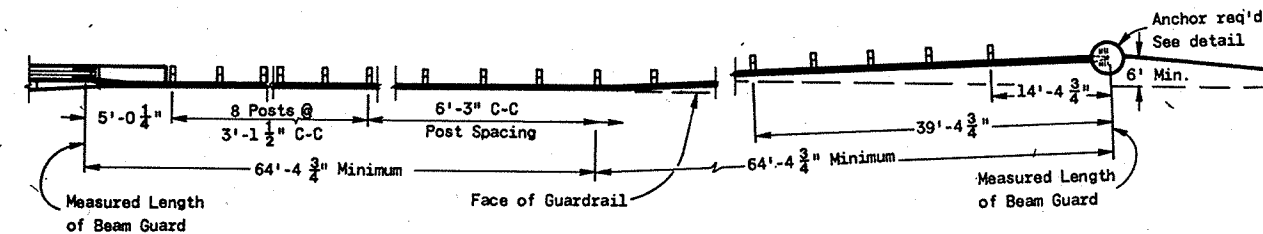
The shoulder widening to accommodate the anchored end of the guardrail shall be accomplished at the rate of widening not to exceed 15 to 1.

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.

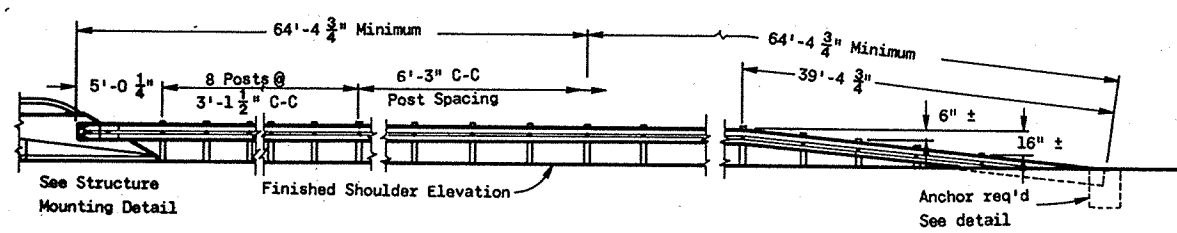
The minimum clearance from the front face of guardrail to obstacle shall be 3 feet unless otherwise shown on contract plans. When clearance is less than 3 feet post spacing shall be reduced to 3 feet - 1 1/2 inches C.C.

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.

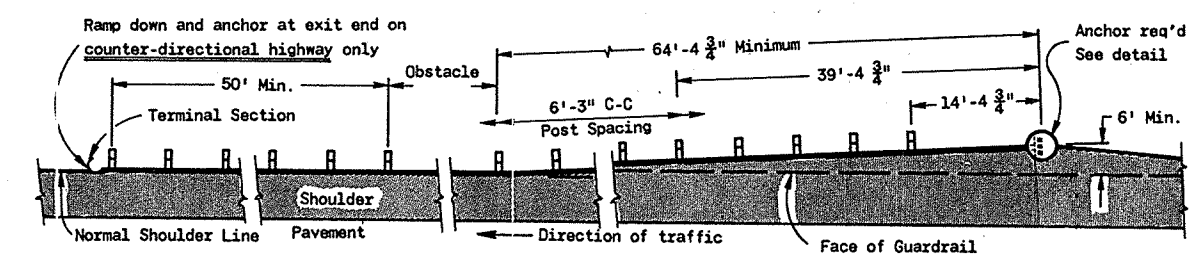


PLAN VIEW



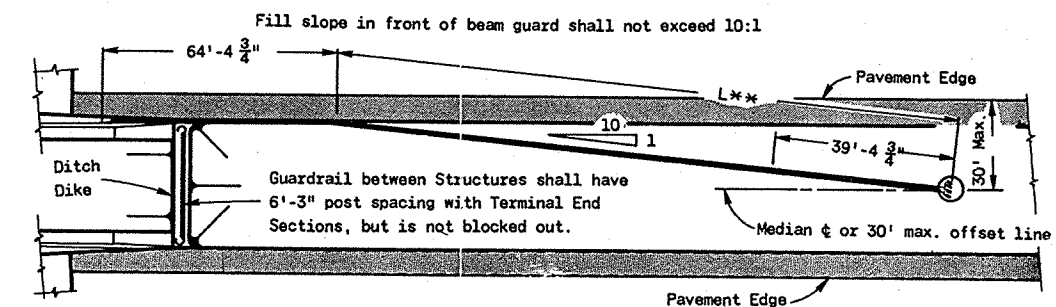
FRONT ELEVATION

TYPICAL INSTALLATION AT STRUCTURES



PLAN VIEW

TYPICAL INSTALLATION AT
LOCATIONS OTHER THAN STRUCTURES



PLAN VIEW

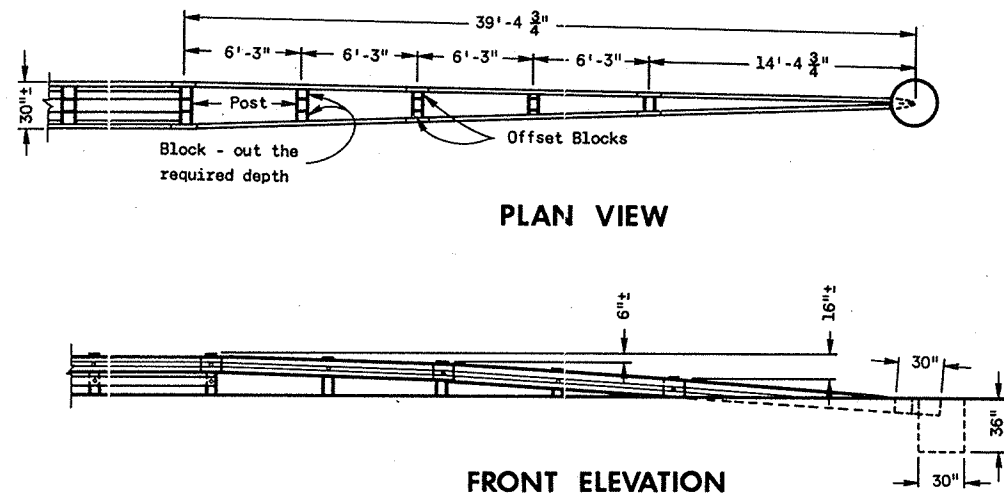
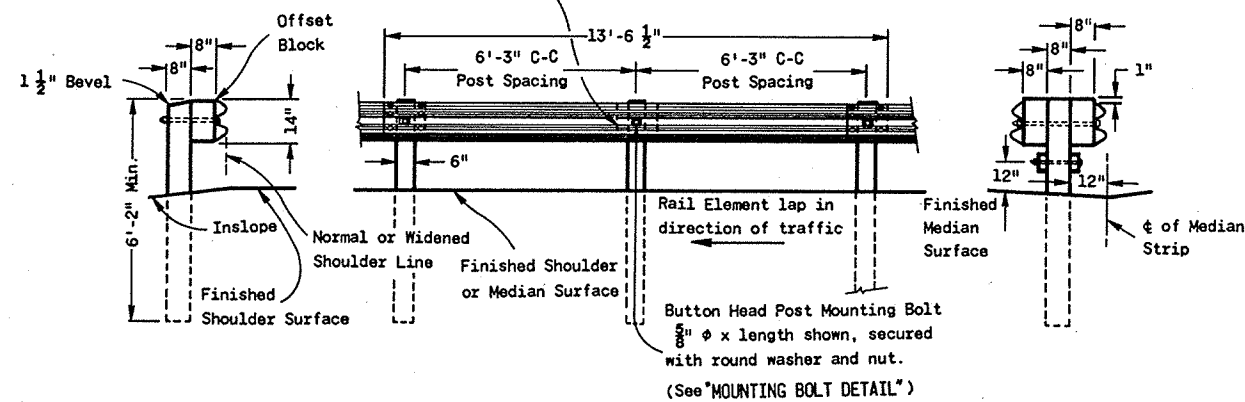
MEDIAN PROTECTION

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

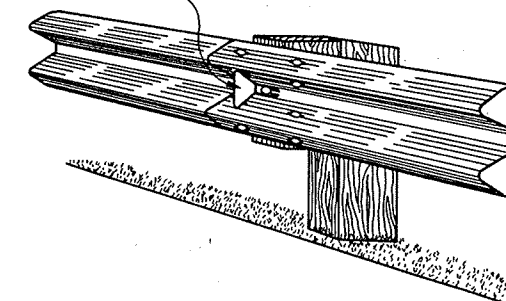
State of Wisconsin
Department of Transportation
Division of Highways

One foot long section of rail element, with a $\frac{3}{8}$ " slotted hole for mounting, shall be placed behind the continuous rail element at the intermediate posts.

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.



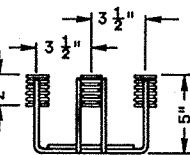
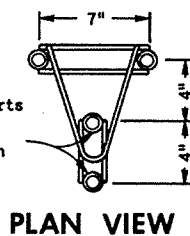
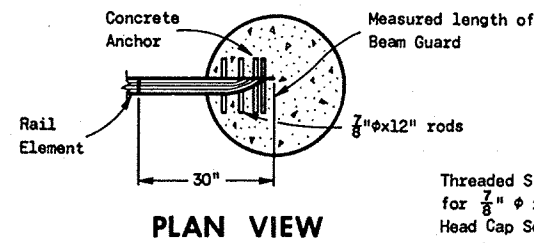
NOTE: (DIVIDED HIGHWAYS) Reflector spacing shall be 50' C-C on installations less than 200' long, with a minimum of 3 reflectors on any installation. For installations 200' or longer, spacing shall be 100' C-C.
(COUNTER-DIRECTIONAL HIGHWAYS) Reflector spacing shall be 25' C-C on installations less than 200' long, with a minimum of 6 reflectors on any installation, and every other reflectorized surface shall be reversed. For installations 200' or longer, spacing shall be 50' C-C.



END ELEVATION FRONT ELEVATION END ELEVATION

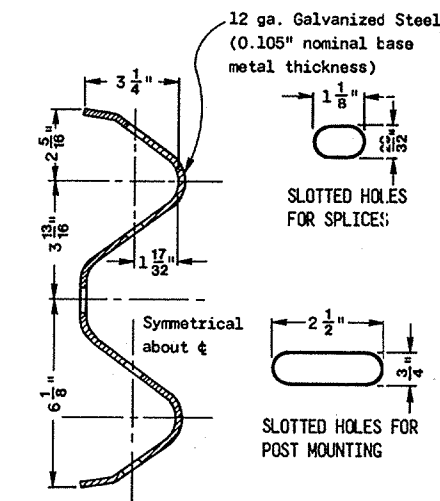
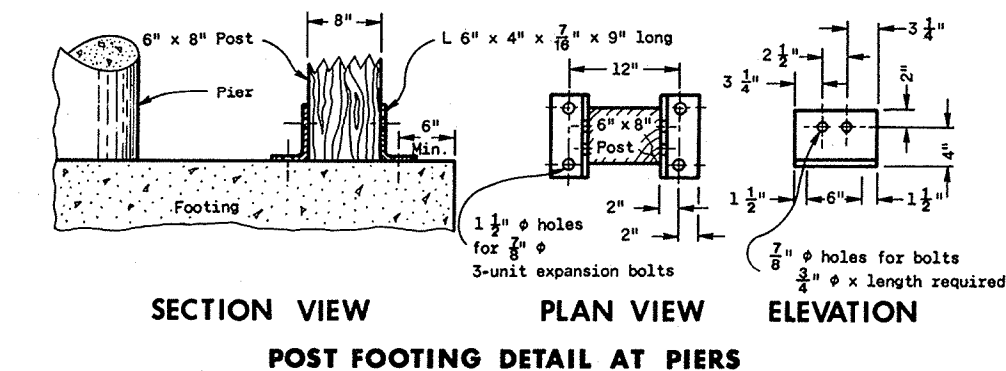
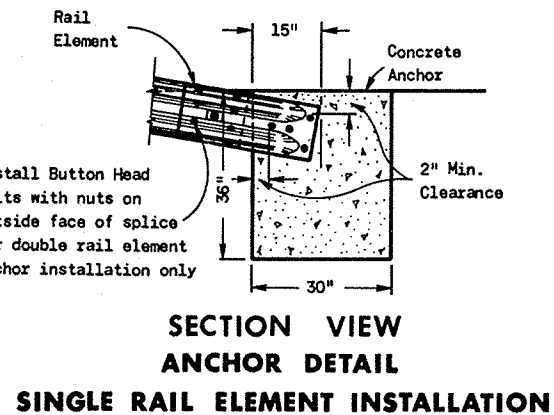
STEEL PLATE BEAM GUARD STEEL PLATE BEAM MEDIAN GUARD

STEEL PLATE BEAM GUARD OR STEEL PLATE BEAM MEDIAN GUARD

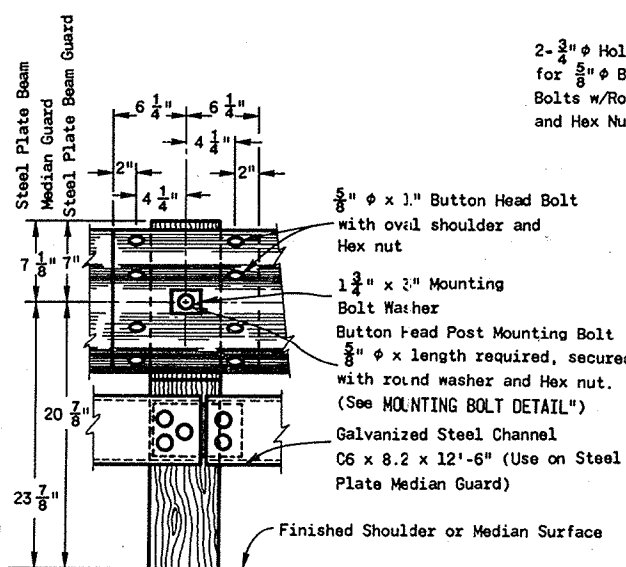


4 BOLT INSERT ASSEMBLY

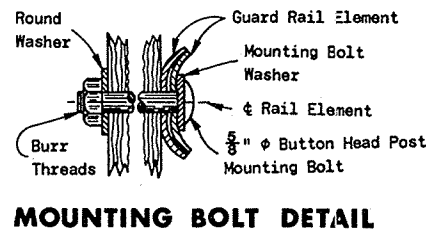
NOTE: Installation of 4 Bolt Insert Assembly (with Cap Screws inserted) to be part of Bridge Contract.



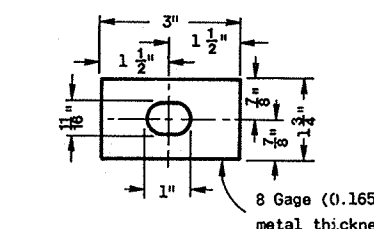
SECTION THRU RAIL ELEMENT



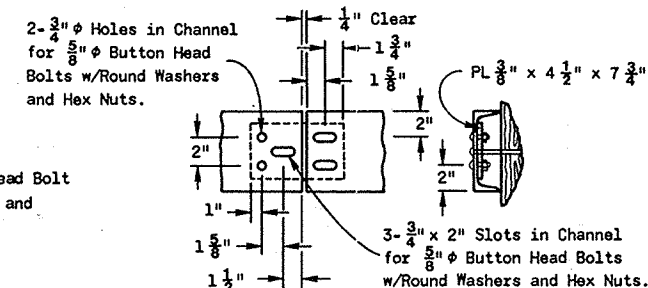
RAIL ELEMENT SPLICING AND POST MOUNTING DETAIL



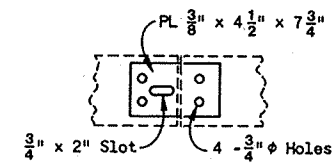
MOUNTING BOLT DETAIL



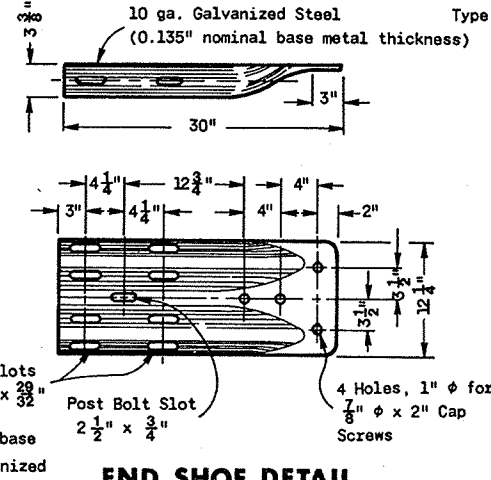
MOUNTING BOLT WASHER



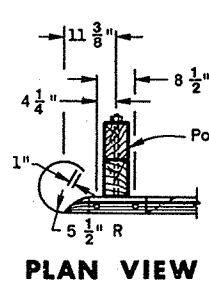
RUB RAIL SPLICING DETAIL



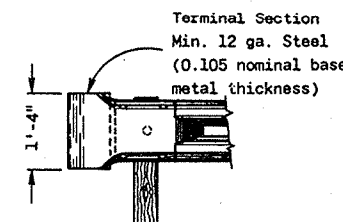
SPLICE PLATE



END SHOE DETAIL



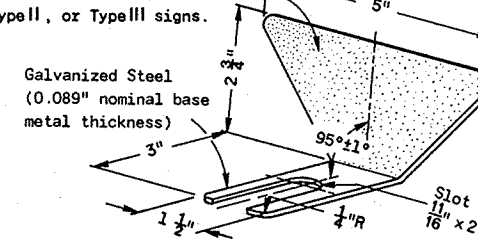
PLAN VIEW



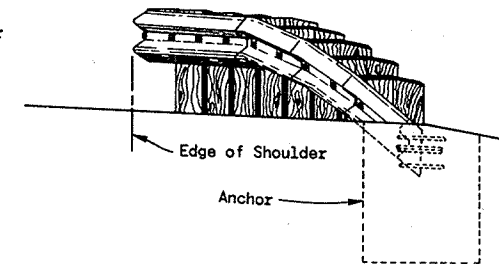
FRONT ELEVATION TERMINAL SECTION DETAILS

TYPICAL INSTALLATION

The reflectorized surface shall consist of Silver Reflective Sheeting of the type used as background on Typel, Typell, or Typelll signs.



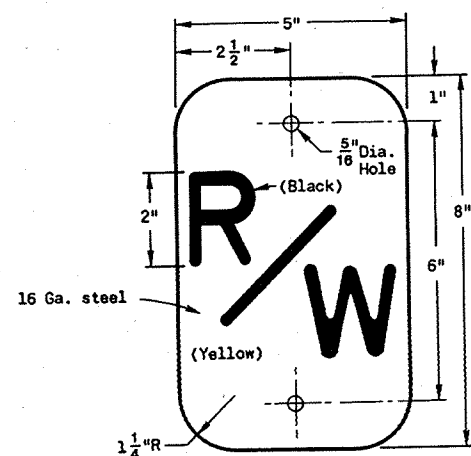
REFLECTOR DETAIL



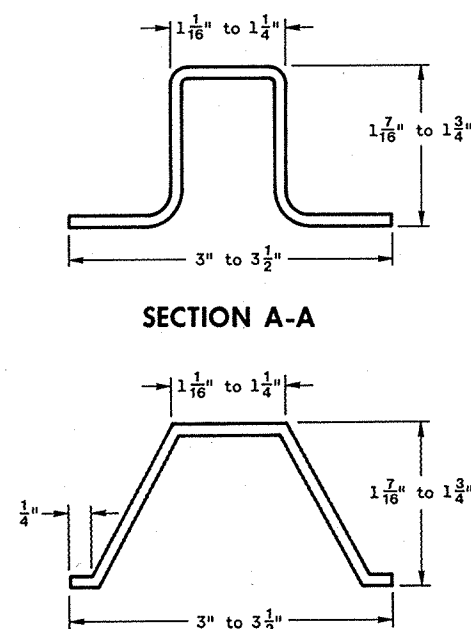
TYPICAL TERMINAL END ELEVATION

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

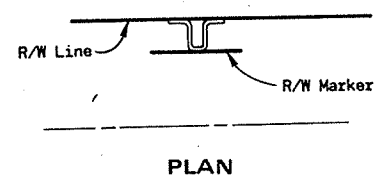
CLASS "A" STEEL PLATE BEAM GUARD & STEEL PLATE BEAM MEDIAN GUARD	
State of Wisconsin Department of Transportation Division of Highways	
RECOMMENDED FOR APPROVAL 5-7-76 DATE	D. J. Stenard CHIEF OF FACILITIES DEVELOPMENT
APPROVED 5-11-76 DATE	W. S. Siddle STATE HIGHWAY ENGINEER



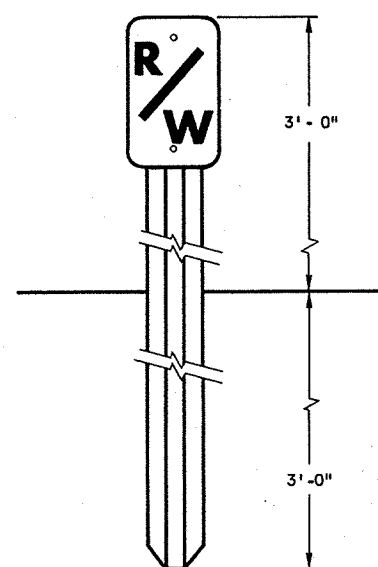
RIGHT OF WAY MARKER
(Letters to be raised $\frac{3}{32}$ " Min.)



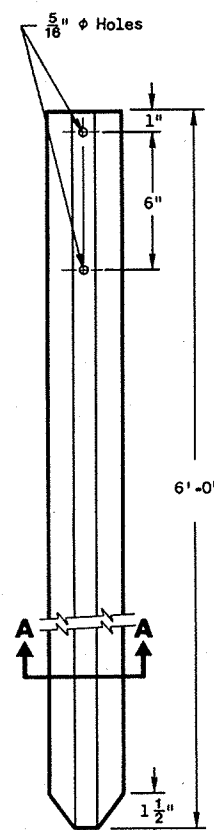
SECTION A-A
ALTERNATE SECTION A-A
(Minimum weight 2.0 lbs. per ft.)



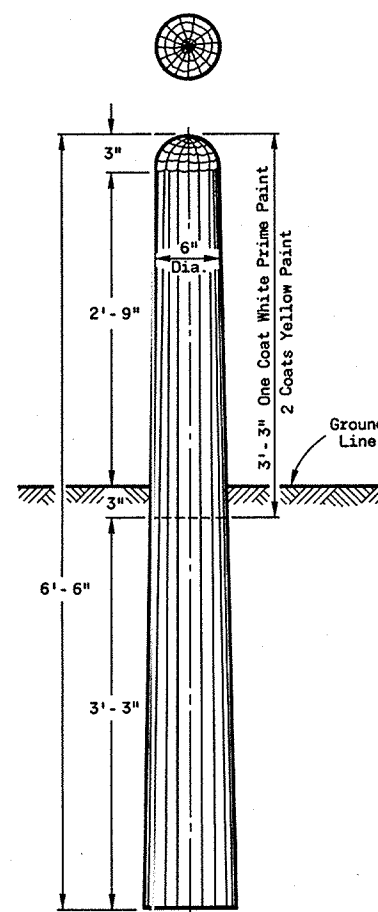
PLAN



ELEVATION
STEEL MARKER POST
FOR RIGHT OF WAY



ELEVATION
STEEL MARKER POST
FOR RIGHT OF WAY



ELEVATION
WOOD MARKER POST
FOR RIGHT OF WAY

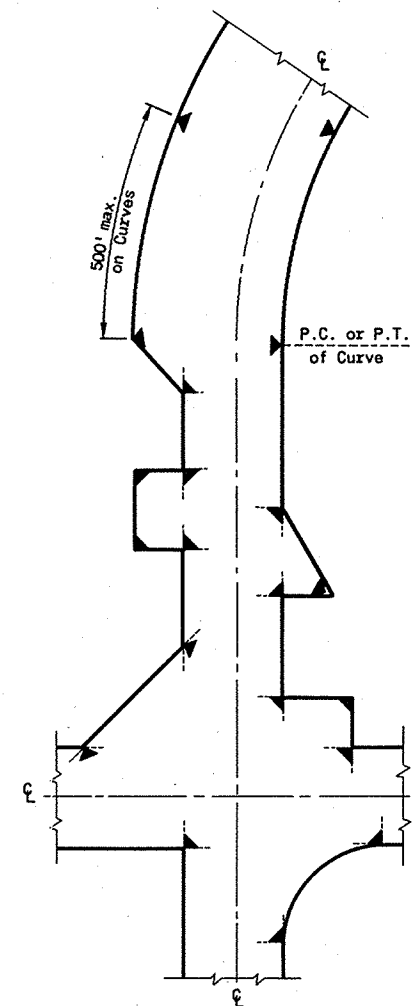


DIAGRAM SHOWING
TYPICAL LOCATIONS
OF MARKER POSTS
FOR RIGHT OF WAY

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 POST FOR RIGHT OF WAY

Right of Way Marker Posts may be either wood or steel and shall be erected in advance of grading operations. Posts shall normally 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. Location and spacing of Marker Posts shall be as shown elsewhere on the plan or as directed by the Engineer.

MARKER POSTS FOR RIGHT OF WAY

State of Wisconsin
Department of Transportation
Division of Highways

RECOMMENDED FOR APPROVAL:

10-3-74

DATE

J. C. Hennrich
CHIEF OF FACILITIES DEVELOPMENT

APPROVED

10-14-74

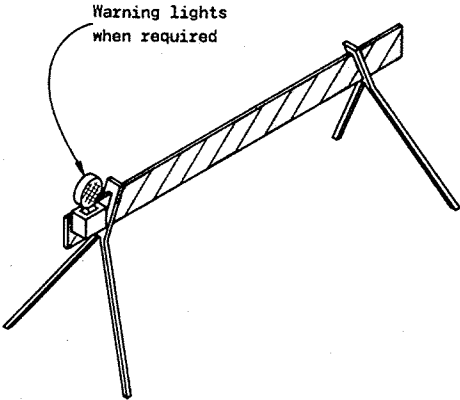
DATE

W. J. Suder
STATE HIGHWAY ENGINEER

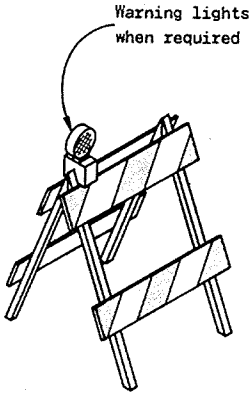
TABLE OF BARRICADE CHARACTERISTICS

BARRICADE TYPE	I	II	III
Height	3' Minimum		5' Minimum
* Rail Width	8" Minimum to 12" Maximum		
Rail Length	2' Minimum		4' Minimum
** Stripe Width	6" at 45° Angle		
Stripe Colors	Reflectorized Orange & White		

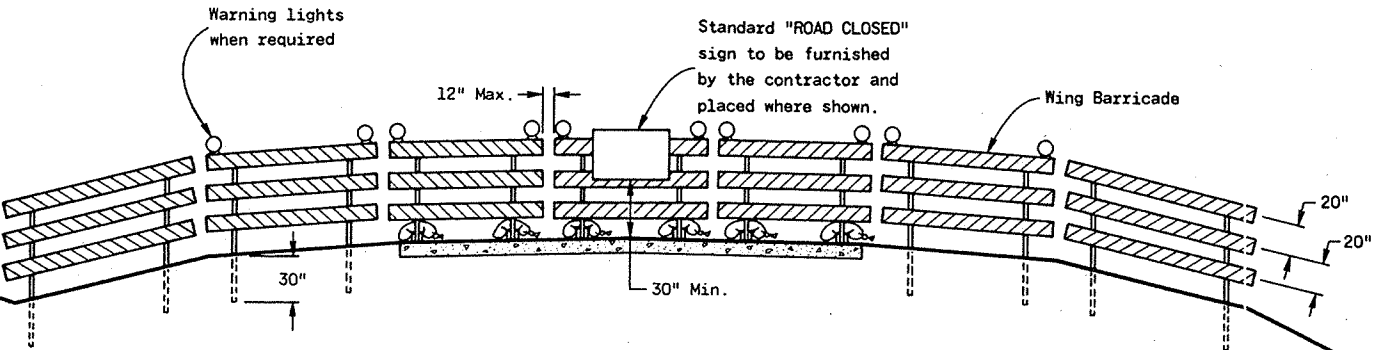
* Nominal dimensions when barricade is constructed of lumber.
** Shall be 4" for rail lengths less than 3'.



TYPICAL TYPE I BARRICADE



TYPICAL TYPE II BARRICADE



TYPICAL INSTALLATION SHOWING TYPE III BARRICADE

CONSTRUCTION BARRICADES



R11-2

48" x 30"

Black Lettering on Reflective
White Background
Letter Series "D"
Letter height 8"



W20-3

48" x 48"

Black Lettering on Reflective
Orange Background
Letter Series "D"
Letter height 7"

STANDARD SIGNS-TYPE II

GENERAL NOTES

The contractor shall furnish, erect and maintain Barricades and Signs. Details regarding location, spacing, dimensions, fabrication, material, sign lettering, lighting devices and color of Barricades and Signs shall conform to this drawing, the Wisconsin Manual on Uniform Traffic Control Devices, the Standard Specifications, Special Provisions and/or plans.

Type III Barricades and Signs shall be erected at the termini of projects and at other road or street locations where it is necessary to control or eliminate public access to the construction area.

Type I and II Barricades shall be used on projects when traffic is to be maintained through the construction area.

The actual field location of barricade installations and advance signs shall be as directed by the Engineer.

Each barricade shall have the name and telephone number of a person responsible for 24 hour emergency service printed in letters at least $\frac{3}{4}$ inch in height on the barricade rails. Prior to May 1, 1983, such information may be shown on either front or back faces of the barricade rails. After May 1, 1983 all printed information or identification markings shall be shown only on the back side of barricade rails.

Type I barricades may include other unstriped horizontal panels necessary to provide stability.

On high speed expressways or in other situations where barricades may be susceptible to overturning in the wind, sandbags should be used for ballasting. Sandbags may be placed on lower parts of the frame or stays to provide the required ballast but shall not be placed on top of any striped rail.

CONSTRUCTION BARRICADES
& STANDARD SIGNS

State of Wisconsin
Department of Transportation

APPROVED

4-14-80

DATE

FHWA

[Signature]
CHIEF DESIGN ENGINEER

TYPE A

NOT TO BE USED IN PAVEMENT STRUCTURE

TYPE C

TYPE D

NOTE: D = 5" minimum diameter
or width base. Circular
shape is not required.

METAL MONUMENTS

(Includes Marker)

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, Type C and Type D 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.

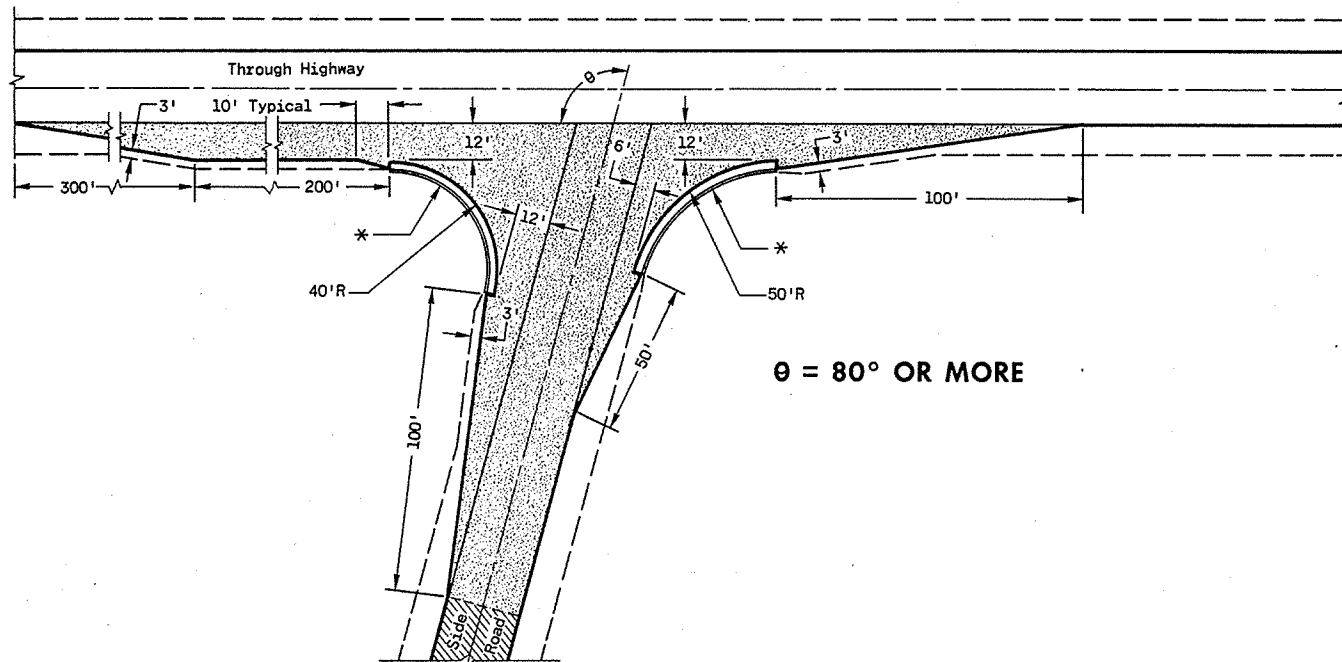
Monuments shall be located and placed at the direction of the Engineer.

INSTALLATION IN PAVEMENT OVER A MONUMENT

TOP LEGEND FOR
TYPES "A", "B", & "D"

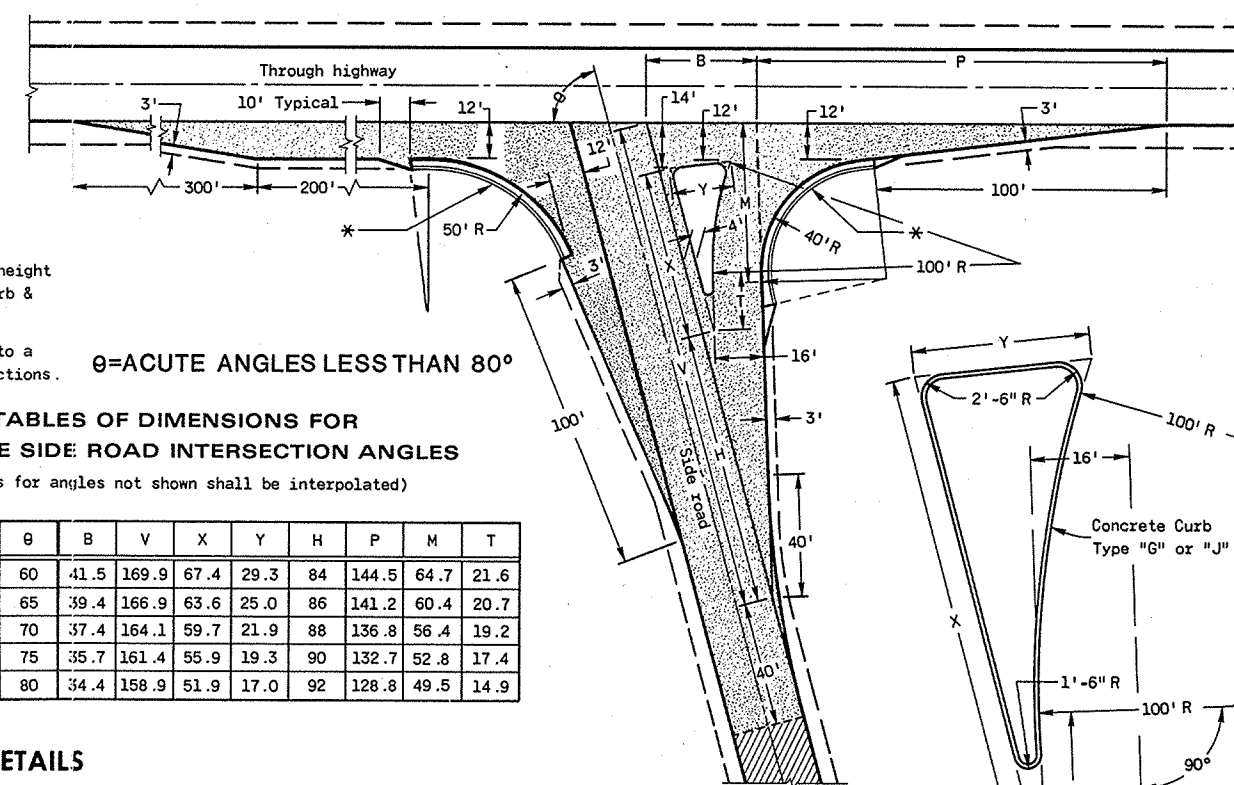
(Approximate weight - 95 lbs.)

TOP LEGEND
FOR TYPE "C"



$\theta = 80^\circ$ OR MORE

* Concrete Curb & Gutter 36". Taper curb height 0" to 6" in 10'-0" length at ends of curb & gutter sections.
Provide sod or salvaged topsoil & seed to a 3'-0" width in back of curb & gutter sections.

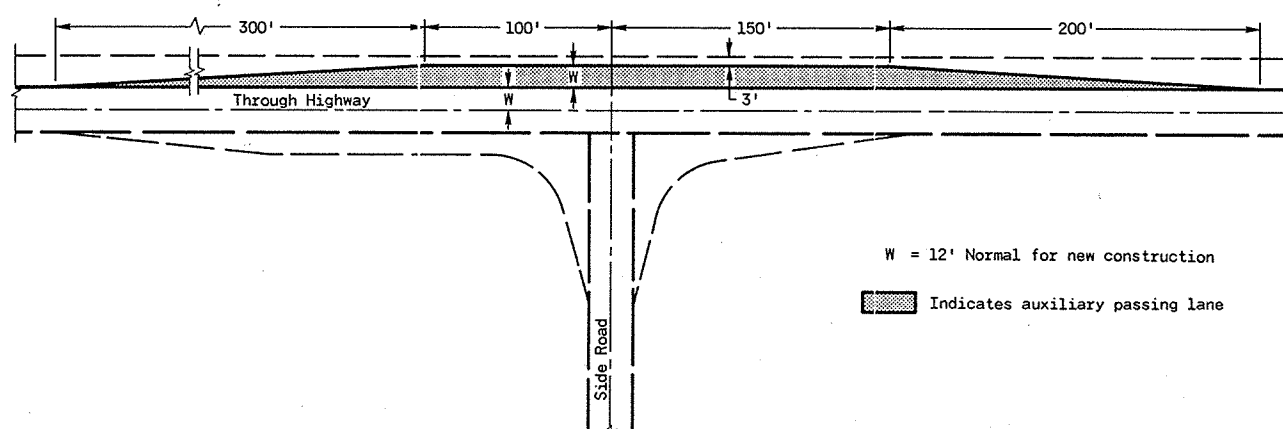


$\theta = \text{ACUTE ANGLES LESS THAN } 80^\circ$

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

θ	B	V	X	Y	H	P	M	T
60	41.5	169.9	67.4	29.3	84	144.5	64.7	21.6
65	39.4	166.9	63.6	25.0	86	141.2	60.4	20.7
70	37.4	164.1	59.7	21.9	88	136.8	56.4	19.2
75	35.7	161.4	55.9	19.3	90	132.7	52.8	17.4
80	34.4	158.9	51.9	17.0	92	128.8	49.5	14.9

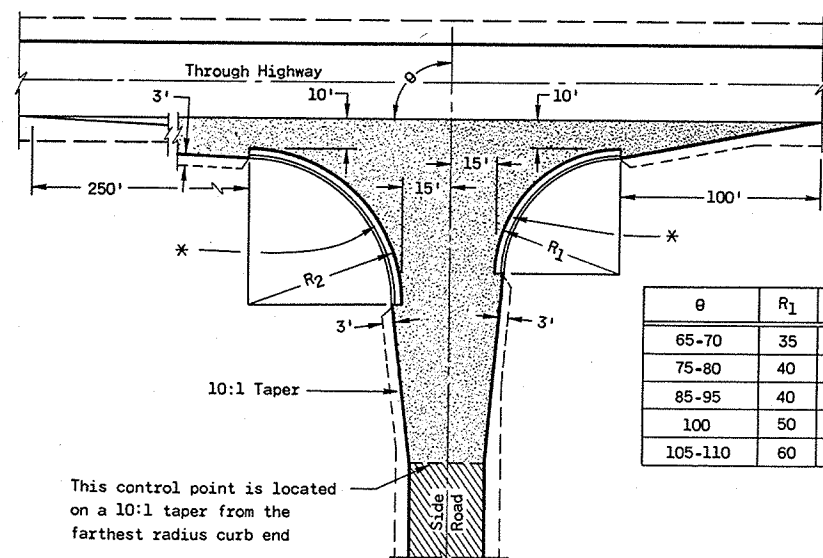
TYPE "A" SIDE ROAD INTERSECTION DETAILS



PASSING LANE DETAIL

W = 12' Normal for new construction

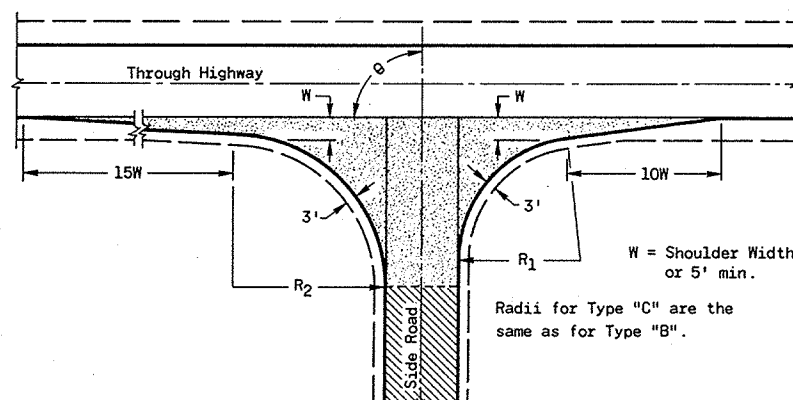
Indicates auxiliary passing lane



θ	R ₁	R ₂
65-70	35	70
75-80	40	70
85-95	40	60
100	50	55
105-110	60	45

This control point is located on a 10:1 taper from the farthest radius curb end

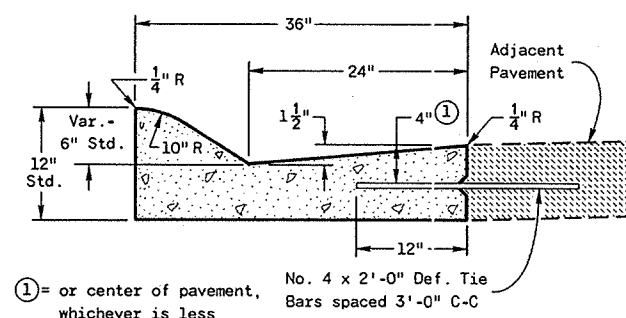
TYPE "B" SIDE ROAD INTERSECTION DETAILS



W = Shoulder Width or 5' min.

Radii for Type "C" are the same as for Type "B".

TYPE "C" SIDE ROAD INTERSECTION DETAILS



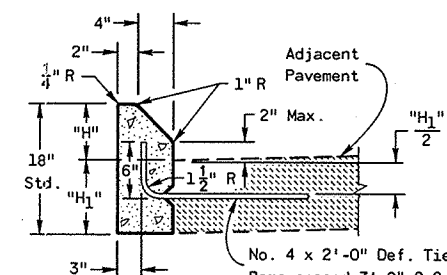
① = or center of pavement, whichever is less

No. 4 x 2'-0" Def. Tie Bars spaced 3'-0" C-C

TYPE "A"
(INCLUDING TIE BARS)

TYPE "D"
(EXCLUDING TIE BARS)

CONCRETE CURB & GUTTER 36"



"H" = 6" Max. and 4" Min. and shall be 6" unless otherwise shown on the plans.

"H₁" = Same as adjacent pavement thickness for rigid pavement and 12" for non-rigid pavement (Tie Bars omitted).

TYPE "G"
(INCLUDING TIE BARS)

TYPE "J"
(EXCLUDING TIE BARS)

CONCRETE CURB

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.

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, crushed aggregate 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 the 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

APPROVED
9/2/80
DATE

CHIEF DESIGN ENGINEER

FHWA

OUTAGAMIE CTH-S STATION 60+00 THRU STATION 300+00									
BASELINE STA	MATERIAL	END AREAS	UNADJUSTED VOLUMES			ADJUSTED VOLUMES			PAGE 1
			INCR	FROM BAL	ACCUM	INCR	FROM BAL	ACCUM	
64+ 0.0	FILL	21.08	0	0	0	0	0	0	0.
64+ 0.0	EARTH	35.93	0	0	0	0	0	0	
65+ 0.0	FILL	32.92	100	100	100	100	100	100	-0.
65+ 0.0	EARTH	41.13	143	143	143	100	100	100	
66+ 0.0	FILL	30.81	119	218	218	100	218	218	-13.
66+ 0.0	EARTH	40.31	151	294	294	106	205	205	
67+ 0.0	FILL	35.48	119	337	337	119	337	337	-10.
67+ 0.0	EARTH	54.07	175	468	468	122	328	328	
67+24.984	NATURAL BALANCE								0.
68+ 0.0	FILL		31	369	369	31	369	369	
68+ 0.0	EARTH		59	527	527	41	369	369	29.
68+ 0.0	FILL	34.06	94	94	463	94	94	463	
69+ 0.0	EARTH	72.54	176	176	703	123	123	492	96.
69+ 0.0	FILL	37.52	133	227	595	133	227	595	
70+ 0.0	EARTH	81.06	284	460	987	199	322	691	170.
70+ 0.0	FILL	38.87	141	368	737	141	368	737	
71+ 0.0	EARTH	85.15	308	768	1295	215	538	907	191.
71+ 0.0	FILL	58.98	181	549	918	181	549	918	
72+ 0.0	EARTH	71.02	289	1057	1584	202	740	1109	148.
72+ 0.0	FILL	45.94	231	781	1149	231	781	1149	
73+ 0.0	EARTH	74.45	249	1327	1854	189	929	1298	92.
73+ 0.0	FILL	70.39	252	1033	1402	252	1033	1402	
73+07.063	NATURAL BALANCE		281	1608	2135	197	1125	1494	0.
74+ 0.0	FILL		279	1312	1681	279	1312	1681	
74+ 0.0	EARTH		267	1874	2401	187	1312	1681	-3.
74+ 0.0	FILL	84.72	8	8	1689	8	8	1689	
75+ 0.0	EARTH	71.02	8	8	2409	8	8	1689	-112.
75+ 0.0	FILL	68.92	285	293	1974	285	293	1974	
76+ 0.0	EARTH	44.51	251	259	2260	174	181	1862	-183.
76+ 0.0	FILL	73.15	263	556	2237	263	556	2237	
77+ 0.0	EARTH	83.41	274	533	2934	192	373	2054	-229.
77+ 0.0	FILL	70.49	244	822	2503	244	822	2503	
78+ 0.0	EARTH	85.93	314	847	3248	220	593	2273	

OUTAGAMIE CTH-S STATION 60+00 THRU STATION 300+00									
BASELINE STA	MATERIAL	END AREAS	UNADJUSTED VOLUMES			ADJUSTED VOLUMES			PAGE 2
			INCR	FROM BAL	ACCUM	INCR	FROM BAL	ACCUM	
78+ 0.0	FILL	90.64	298	1120	2801	298	1120	2801	-319.
78+ 0.0	EARTH	75.24	298	1145	3546	209	801	2482	
79+ 0.0	FILL	112.67	377	1497	3178	377	1497	3178	-529.
79+ 0.0	EARTH	52.93	237	1382	3783	166	968	2648	
80+ 0.0	FILL	124.33	439	1936	3617	439	1936	3617	-857.
80+ 0.0	EARTH	32.62	158	1541	3942	111	1079	2759	
81+ 0.0	FILL	140.10	490	2426	4106	490	2426	4106	-1279.
81+ 0.0	EARTH	20.25	98	1679	4040	49	1147	2828	
82+ 0.0	FILL	134.46	508	2934	4615	508	2934	4615	-1720.
82+ 0.0	EARTH	31.36	94	1734	4135	47	1214	2895	
83+ 0.0	FILL	150.10	527	3461	5142	527	3461	5142	-2167.
83+ 0.0	EARTH	30.40	115	1849	4250	80	1294	2975	
84+ 0.0	FILL	149.30	591	4052	5733	591	4052	5733	-2695.
84+ 0.0	EARTH	17.91	90	1939	4340	63	1357	3038	
85+ 0.0	FILL	172.33	633	4685	6366	633	4685	6366	-3287.
85+ 0.0	EARTH	13.43	58	1997	4398	41	1398	3079	
86+ 0.0	FILL	148.32	594	5279	6960	594	5279	6960	-3846.
86+ 0.0	EARTH	13.39	50	2047	4448	35	1433	3113	
87+ 0.0	FILL	120.20	497	5776	7457	497	5776	7457	-4303.
87+ 0.0	EARTH	18.30	59	2105	4506	41	1474	3154	
88+ 0.0	FILL	48.13	349	6125	7806	349	6125	7806	-4588.
88+ 0.0	EARTH	32.78	95	2200	4601	64	1540	3221	
89+ 0.0	FILL	0.0	126	6251	7932	126	6251	7932	-4481.
89+ 0.0	EARTH	144.64	329	2528	4929	230	1770	3451	
90+ 0.0	FILL	54.48	162	2691	5092	162	2691	5092	-4327.
90+ 0.0	EARTH	25.93	58	6334	8015	58	6334	8015	
91+ 0.0	FILL	115.78	177	2867	5260	177	2867	5260	-4226.
91+ 0.0	EARTH	42.43	127	4461	8142	127	4461	8142	
92+ 0.0	FILL	40.37	126	3193	5594	228	2235	3914	-4281.
92+ 0.0	EARTH	59.54	189	6650	8331	189	6650	8331	
93+ 0.0	FILL	42.18	190	3383	5784	133	2368	4049	

OUTAGAMIE CTH-S STATION 60+00 THRU STATION 300+00									
BASELINE STA	MATERIAL	END AREAS	UNADJUSTED VOLUMES			ADJUSTED VOLUMES			PAGE 3
			INCR	FROM BAL	ACCUM	INCR	FROM BAL	ACCUM	
93+ 0.0	FILL	41.76	189	6837	8518	189	6837	8518	-4373.
93+ 0.0	EARTH	31.67	137	3520	5921	96	2464	4115	
94+ 0.0	FILL	36.24	144	6982	8663	144	6982	8663	-4430.
94+ 0.0	EARTH	36.15	126	3646	6047	88	2552	4233	
95+ 0.0	FILL	22.28	108	7090	8771	108	7090	8771	-4437.
95+ 0.0	EARTH	4.10	49	7139	8820	49	7139	8820	
96+ 0.0	FILL	45.20	162	3953	6354	113	2767	4448	-4372.
96+ 0.0	EARTH	11.04	28	7167	8848	28	7167	8848	
97+ 0.0	FILL	57.00	189	4142	6543	132	2900	4580	-4268.
97+ 0.0	EARTH								

* (MARSH EXCAVATION) BASELINE STA.						
STATION	E.A. SQ. FT.	SUM SQ. FT.	TOTAL SQ. FT.	L	CU. YD	TOTAL
76+ 00	0	106	106	1	196	196
77+ 00	106	207	207	1	383	579
78+ 00	101	213	213	1	394	973
79+ 00	112	226	226	1	418	1,392
80+ 00	114					
81+ 00	0	114	114	1	211	1,603

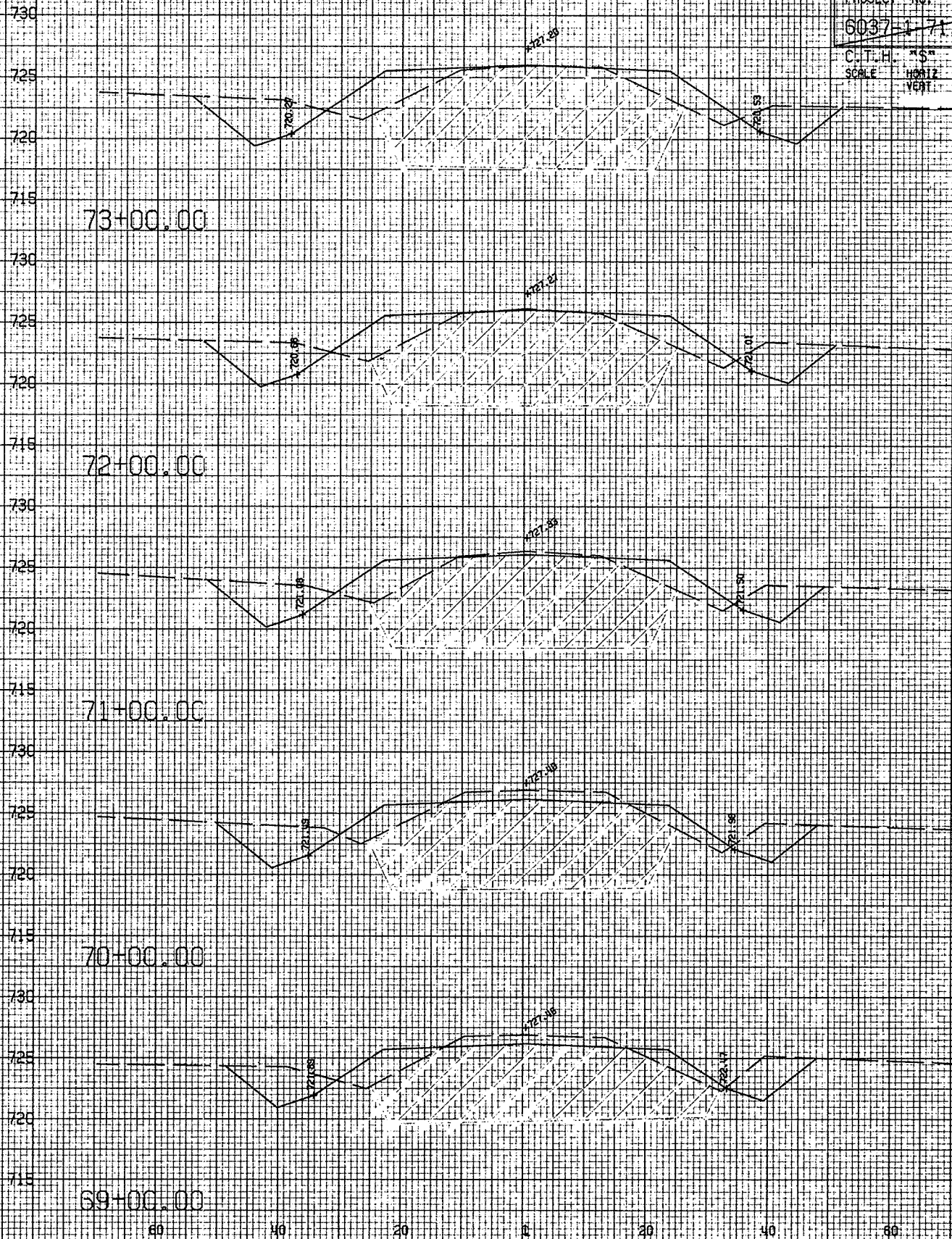
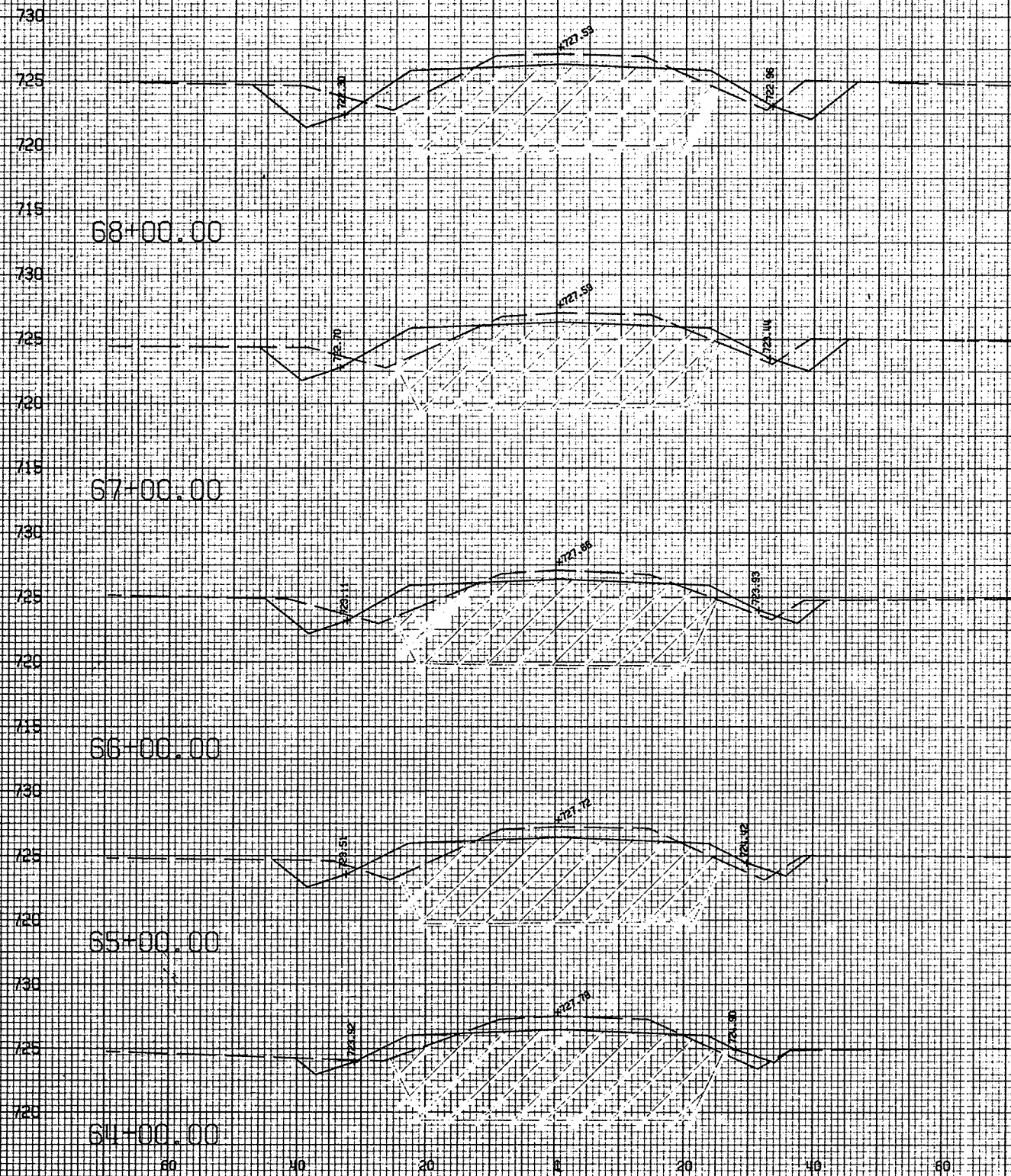
OUTAGAMIE CTH-S STATION 60+00 THRU STATION 300+00									
BASELINE STA	MATERIAL	END AREAS	UNADJUSTED VOLUMES			ADJUSTED VOLUMES			PAGE 4
			INCR	FROM BAL	ACCUM	INCR	FROM BAL	ACCUM	
98+ 0.0	FILL	12.98	44	7212	8892	44	7212	8892	-4165.
98+ 0.0	EARTH	56.76	211	4353	6754	147	3047	4728	
99+ 0.0	FILL	12.01	44	7258	8939	44	7258	8939	-4073.
99+ 0.0	EARTH	49.64	197	4550	6951	138	3185	4844	
100+ 0.0	FILL	9.85	40	7298	8979	40	7298	8979	-3952.
100+ 0.0	EARTH	74.91	231	4781	7182	161	3346	5027	
101+ 0.0	FILL	6.63	31	7329	9010	31	7329	9010	-3764.
101+ 0.0	EARTH	93.60	312	5093	7494	218	3545	5244	
102+ 0.0	FILL	9.21	29	7358	9039	29	7358	9039	-3565.
102+ 0.0	EARTH	82.61	328	5419	7820	228	3793	5474	
103+ 0.0	FILL	11.44	38	7396	9077	38	7396	9077	-3375.
103+ 0.0	EARTH	94.59	328	5747	8148	230	4023	5704	
104+ 0.0	FILL	7.66	35	7432	9113	35	7432	9113	-3116.
104+ 0.0	EARTH	131.67	419	6164	8567	293	4316	5997	
105+ 0.0	FILL	6.47	26	7458	9139	26	7458	9139	-2731.
105+ 0.0	EARTH	185.14	587	6753	9154	411	4727	6408	
105+70.7	FILL	14.08	27	7485	9166	27	7485	9166	-2476.
105+70.7	EARTH	122.33	403	7156	9557	282	5009	6690	
106+ 0.0	FILL	13.85	15	7500	9181	15	7500	9181	-2404.
106+ 0.0	EARTH	108.21	125	7281	9682	87	5866	6777	
107+ 0.0	FILL	18.35	60	7560	9240	60	7560	9240	-2236.
107+ 0.0	EARTH	67.23	325	7605	10066	227	5324	7005	

OUTAGAMIE CTH-S STATION 60+00 THRU STATION 300+00										PAGE 5	
BASELINE STA	MATERIAL	END AREAS	-- UNADJUSTED VOLUMES --			MULT			-- ADJUSTED VOLUMES --		HABS ORDNATE
			INCR	FROM BAL	ACCUM	FACTOR	INCR	FROM BAL	ACCUM		
108+ 0.0	FILL	0.0	34	7594	9274	1.000	34	7594	9274	-2050.	
	EARTH	102.44	315	7920	10321	0.700	220	5544	7225		
109+ 0.0	FILL	18.81	35	7628	9309	1.000	35	7628	9309	-1874.	
	EARTH	59.71	301	8221	10622	0.700	210	5754	7435		
110+ 0.0	FILL	27.64	86	7714	9395	1.000	86	7714	9395	-1820.	
	EARTH	48.58	201	8421	10822	0.700	140	5895	7576		
111+ 0.0	FILL	31.37	107	7824	9504	1.000	109	7824	9504	-1814.	
	EARTH	39.89	164	8585	10986	0.700	115	6010	7690		
112+ 0.0	FILL	33.15	119	7943	9624	1.000	119	7943	9624	-1834.	
	EARTH	36.68	142	8727	11128	0.700	99	6109	7789		
113+ 0.0	FILL	30.36	118	8061	9742	1.000	118	8061	9742	-1846.	
	EARTH	44.94	151	8878	11279	0.700	104	6215	7895		
114+ 0.0	FILL	30.67	113	8174	9855	1.000	113	8174	9855	-1838.	
	EARTH	48.70	174	9052	11453	0.700	122	4336	8017		
115+ 0.0	FILL	35.46	123	8297	9977	1.000	123	8297	9977	-1863.	
	EARTH	42.04	148	8720	11421	0.700	118	4454	8135		
116+ 0.0	FILL	34.26	129	8426	10187	1.000	129	8426	10107	-1824.	
	EARTH	72.14	211	9432	11833	0.700	148	6402	8283		
117+ 0.0	FILL	36.43	131	8557	10238	1.000	131	8557	10238	-1796.	
	EARTH	50.85	227	9459	12040	0.700	159	6761	8442		
118+ 0.0	FILL	36.48	135	8692	10373	1.000	135	8692	10373	-1794.	
	EARTH	53.86	193	9852	12253	0.700	135	6896	8577		
119+ 0.0	FILL	25.33	115	8807	10488	1.000	115	8807	10488	-1743.	
	EARTH	75.76	240	10092	12493	0.700	168	7065	8745		
120+ 0.0	FILL	23.45	70	8878	10578	1.000	70	8878	10578	-1618.	
	EARTH	90.56	308	10400	12801	0.700	111	5908	10689		
121+ 0.0	FILL	36.37	111	9008	10689	1.000	111	9008	10689	-1532.	
	EARTH	61.04	281	10481	13082	0.700	197	7477	9157		
122+ 0.0	FILL	30.82	124	9133	10814	1.000	124	9133	10814	-1477.	
	EARTH	77.14	256	10937	13330	0.700	179	7656	9337		
123+ 0.0	FILL	22.53	99	9232	10912	1.000	99	9232	10912	-1357.	
	EARTH	20.23	77	8712	10132	0.700	219	7875	9554		

OUTAGAMIE CTH-S STATION 60+00 THRU STATION 300+00										PAGE 6									
BASELINE STA		MATERIAL		END		UNADJUSTED VOLUMES		MULT		ADJUSTED VOLUMES		MASS		ORDINATE					
		NAME		AREAS		INCR		FROM BAL		ACCUM		INCR		FROM BAL		ACCUM			
130+ 0.0	FILL	118.39	138	138	12133	1.000	138	138	12133	1.000	138	138	-12133	-122.					
131+ 0.0	EARTH	9.72	23	23	17158	0.700	14	16	12010		14	16	12010						
132+ 0.0	FILL	127.95	456	594	12589	1.000	456	594	12589	1.000	456	594	12589	-555.					
133+ 0.0	EARTH	8.41	34	54	17191	0.700	23	40	12034		23	40	12034						
134+ 0.0	FILL	122.08	463	1058	13052	1.000	463	1058	13052	1.000	463	1058	13052	-996.					
135+ 0.0	EARTH	8.26	31	87	17222	0.700	22	61	12055		22	61	12055						
136+ 0.0	FILL	105.95	422	1480	13474	1.000	422	1480	13474	1.000	422	1480	13474	-1390.					
137+ 0.0	EARTH	13.89	41	128	17263	0.700	29	90	12084		29	90	12084						
138+ 0.0	FILL	92.40	347	1847	13841	1.000	347	1847	13841	1.000	347	1847	13841	-1716.					
139+ 0.0	EARTH	18.22	59	188	17323	0.700	42	131	12126		42	131	12126						
140+ 0.0	FILL	73.43	307	2155	14149	1.000	307	2155	14149	1.000	307	2155	14149	-1972.					
141+ 0.0	EARTH	21.55	74	241	17396	0.700	52	183	12177		52	183	12177						
142+ 0.0	FILL	60.37	248	2403	14397	1.000	248	2403	14397	1.000	248	2403	14397	-2164.					
143+ 0.0	EARTH	21.26	79	341	17476	0.700	55	239	12233		55	239	12233						
OUTAGAMIE CTH-S STATION 60+00 THRU STATION 300+00										PAGE 6									
BASELINE STA		MATERIAL		END		UNADJUSTED VOLUMES		MULT		ADJUSTED VOLUMES		MASS		ORDINATE					
		NAME		AREAS		INCR		FROM BAL		ACCUM		INCR		FROM BAL		ACCUM			
137+ 0.0	FILL	51.41	207	2610	14604	1.000	207	2610	14604	1.000	207	2610	14604	-2311.					
138+ 0.0	EARTH	25.05	86	427	17561	0.700	60	299	12293		60	299	12293						
139+ 0.0	FILL	34.59	159	2769	14763	1.000	159	2769	14763	1.000	159	2769	14763	-2419.					
140+ 0.0	EARTH	14.90	74	501	17635	0.700	52	350	12345		52	350	12345						
141+ 0.0	FILL	23.53	108	2877	14871	1.000	108	2877	14871	1.000	108	2877	14871	-2475.					
142+ 0.0	EARTH	24.90	74	574	17709	0.700	52	402	12396		52	402	12396						
143+ 0.0	FILL	58.26	151	3028	15022	1.000	151	3028	15022	1.000	151	3028	15022	-2573.					
144+ 0.0	EARTH	16.37	76	651	17785	0.700	53	455	12450		53	455	12450						
145+ 0.0	FILL	47.56	194	3224	15218	1.000	194	3224	15218	1.000	194	3224	15218	-2716.					
146+ 0.0	EARTH	24.56	74	726	17861	0.700	53	508	12503		53	508	12503						
147+ 0.0	FILL	0.00	77	3302	15294	1.000	77	3302	15294	1.000	77	3302	15294	-2655.					
148+ 0.0	EARTH	94.69	198	924	18059	0.700	138	647	12641		138	647	12641						
149+ 0.0	FILL	0.00	0	3302	15294	1.000	0	3302	15294	1.000	0	3302	15294	-2627.					
150+ 0.0	EARTH	80.32	39	963	18098	0.700	28	674	12669		28	674	12669						
151+ 0.0	FILL	74.71	18	1364	15444	1.000	18	333	15444	1.000	18	333	15444	-2462.					
152+ 0.0	EARTH	42.29	227	1190	18435	0.700	159	333	15433		159	333	15433						
153+ 0.0	FILL	21.11	88	3438	15432	1.000	88	3438	15432	1.000	88	3438	15432	-2462.					
154+ 0.0	EARTH	67.63	204	1394	18529	0.700	142	976	12970		142	976	12970						
155+ 0.0	FILL	20.32	77	3515	15509	1.000	77	3515	15509	1.000	77	3515	15509	-2337.					
156+ 0.0	EARTH	88.38	289	1683	18810	0.700	202	1178	13172		202	1178	13172						
157+ 0.0	FILL	20.98	76	3591	15584	1.000	76	3591	15584	1.000	76	3591	15584	-2179.					
158+ 0.0	EARTH	92.29	335	2017	19152	0.700	234	1412	13406		234	1412	13406						
159+ 0.0	FILL	30.97	96	3687	15682	1.000	96	3687	15682	1.000	96	3687	15682	-2076.					
160+ 0.0	EARTH	61.66	285	2303	19437	0.700	200	1612	13606		200	1612	13606						
161+ 0.0	FILL	26.46	106	3794	15788	1.000	106	3794	15788	1.000	106	3794	15788	-2027.					
162+ 0.0	EARTH	58.19	222	2524	19659	0.700	155	1767	13741		155	1767	13741						
163+ 0.0	FILL	29.18	103	3897	15891	1.000	103	3897	15891	1.000	103	3897	15891	-1970.					
164+ 0.0	EARTH	65.20	229	2753	19880	0.700	160	1927	13921		160	1927	13921						
165+ 0.0	FILL	25.92	102	3999	15993	1.000	102	3999	15993	1.000	102	3999	15993	-1893.					
166+ 0.0	EARTH	73.08	256	3009	20144	0.700	179	2106	14101		179	2106	14101						
167+ 0.0	FILL	26.34	97	4096	16090	1.000	97	4096	16090	1.000	97	4096	16090	-1808.					
168+ 0.0	EARTH	66.55	259	3268	20402	0.700	181	2287	14282		181	2287	14282						
OUTAGAMIE CTH-S STATION 60+00 THRU STATION 300+00										PAGE 7									
BASELINE STA		MATERIAL		END		UNADJUSTED VOLUMES		MULT		ADJUSTED VOLUMES		MASS		ORDINATE					
		NAME		AREAS		INCR		FROM BAL		ACCUM		INCR		FROM BAL		ACCUM			
152+ 0.0	FILL	26.70	98	4194	16188	1.000	98	4194	16188	1.000	98	4194	16188	-1750.					
153+ 0.0	EARTH	54.62	224	3492	20627	0.700	157	2444	14439		157	2444	14439						
154+ 0.0	FILL	31.43	108	4302	16296	1.000	108	4302	16296	1.000	108	4302	16296	-1749.					
155+ 0.0	EARTH	29.21	155	3647	20782	0.700	109	2963	14547		109	2963	14547						
156+ 0.0	FILL	30.74	115	4417	16411	1.000	115	4417	16411	1.000	115	4417	16411	-1789.					
157+ 0.0	EARTH	28.41	107	3754	20889	0.700	75	2628	14622		75	2628	14622						
158+ 0.0	FILL	26.29	106	4522	16517	1.000	106	4522	16517	1.000	106	4522	16517	-1801.					
159+ 0.0	EARTH	43.84	134	3888	21023	0.700	94	2721	14716		94	2721	14716						
160+ 0.0	FILL	21.21	88	4610	16605	1.000	88	4610	16605	1.000	88	4610	16605	-1771.					
161+ 0.0	EARTH	47.20	169	4056	21191	0.700	118	2839	14834		118	2839	14834						
162+ 0.0	FILL	16.97	71	4681	16675	1.000	71	4681	16675	1.000	71	4681	16675	-1708.					
163+ 0.0	EARTH	55.64	190	4247	21382	0.700	133	2973	14967		133	2973	14967						
164+ 0.0	FILL	10.87	52	4733	16727	1.000	52	4733	16727	1.000	52	4733	16727	-1589.					
165+ 0.0	EARTH	76.40	245	4491	21626	0.700	171	3144	15138		171	3144	15138						
166+ 0.0	FILL	15.25	48	4781	16775	1.000	48	4781	16775	1.000	48	4781	16775	-1457.					
167+ 0.0	EARTH	62.70	258	4749	21884	0.700	180	3324	15319		180	3324	15319						
168+ 0.0	FILL	9.92	47	4828	16822	1.000	47	4828	16822	1.000	47	4828	16822	-1318.					
169+ 0.0	EARTH	79.91	264	5013	22148	0.700	185	3509	15503		185	3509	15503						
170+ 0.0	FILL	15.19	46	4874	16868	1.000	46	4874	16868	1.000	46	4874	16868	-1154.					
171+ 0.0	EARTH	82.90	302	5315	22449	0.700	211	3720	15714		211	3720	15714						
172+ 0.0	FILL	17.03	60	4934	16928	1.000	60	4934	16928	1.000	60	4934	16928	-1002.					
173+ 0.0	EARTH	80.48	303	5617	22752	0.700	212	3932	15926		212	3932	15926						
174+ 0.0	FILL	22.85	74	5008	17002	1.000	74	5008	17002	1.000	74	5008	17002	-877.					
175+ 0.0	EARTH	72.80	284	5092	23036	0.700	199	4170	16125		199	4170	16125						
176+ 0.0	FILL	22.83	87	5092	17086	1.000	85	5092	17086	1.000	85	5092	17086	-788.					
177+ 0.0	EARTH	60.99	248	6149	23283	0.700	173	4304	16298		173	4304	16298						
178+ 0.0	FILL	28.16	94	5187	17181	1.000	94	5187	17181	1.000	94	5187	17181	-739.					
179+ 0.0	EARTH	49.94	205	6354	23469	0.700	144	4448	16442		144	4448	16442						
180+ 0.0	FILL	23.31																	

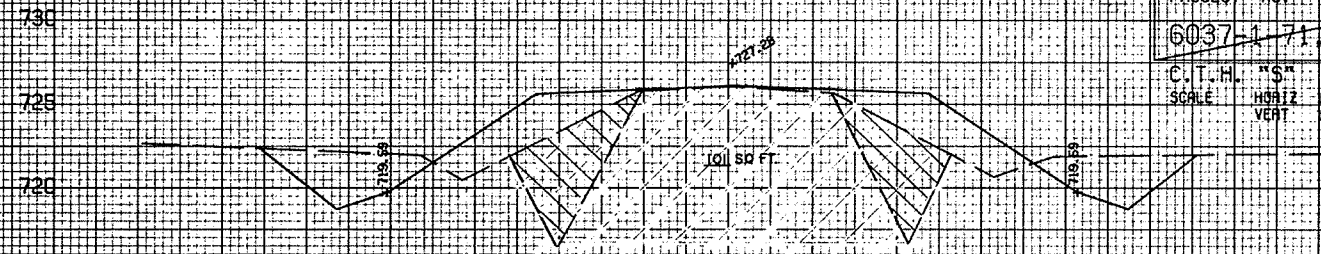
PROJECT NO.
6037-1-71-72
C.T.H. "S"
SCALE HORIZ. 1" = 10 FT
VERT. 1" = 5 FT

PROJECT NO. 9.2
6037-1-71-72
C.T.H. "S"
SCALE HORIZ. 1" = 10 FT
VERT. 1" = 5 FT

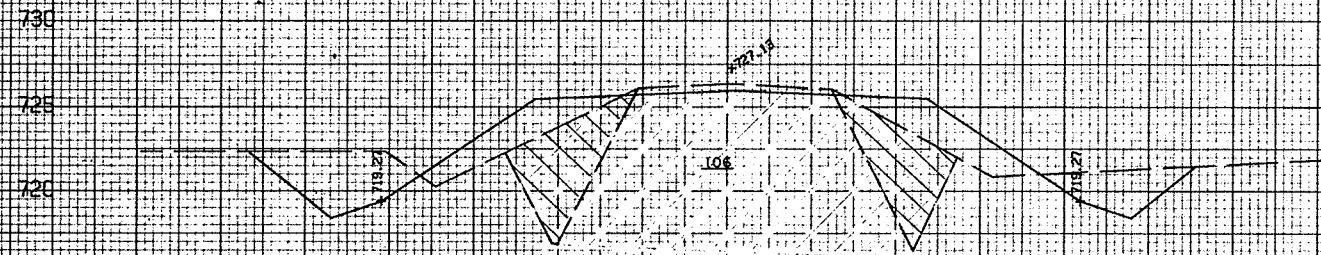


BEGIN PROJECT NO 6037-1-71-72 - 63+80.00

PROJECT NO.
6037-1-71.72
C.T.H. "S"
SCALE HORIZ IN = 10 FT
VERT IN = 5 FT



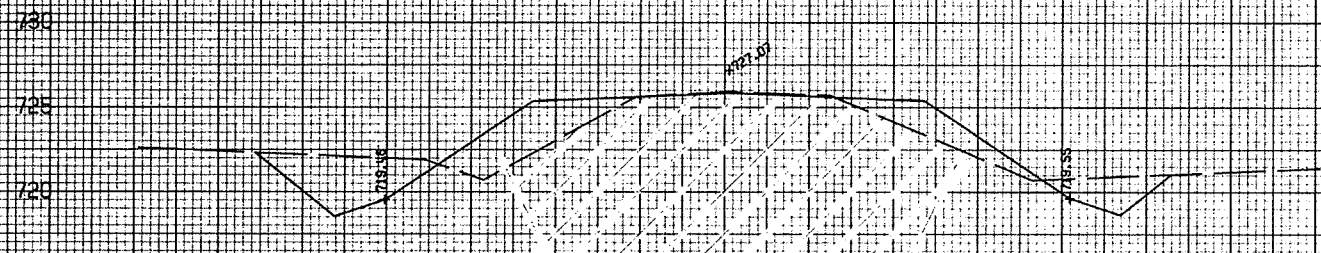
78+00.00



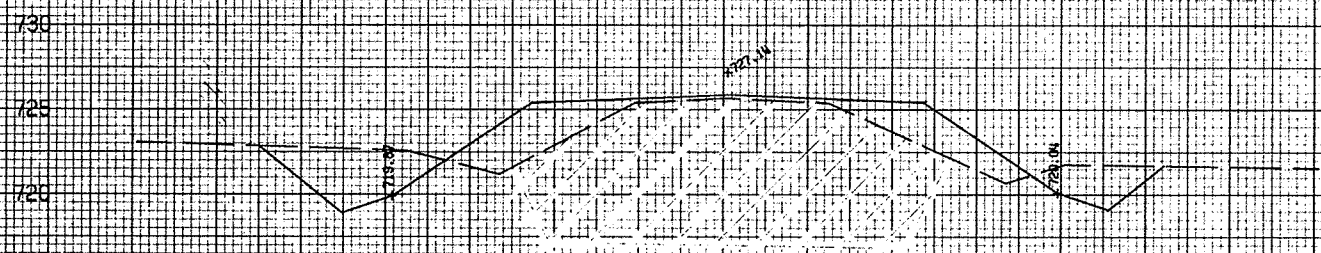
77+00.00



76+00.00

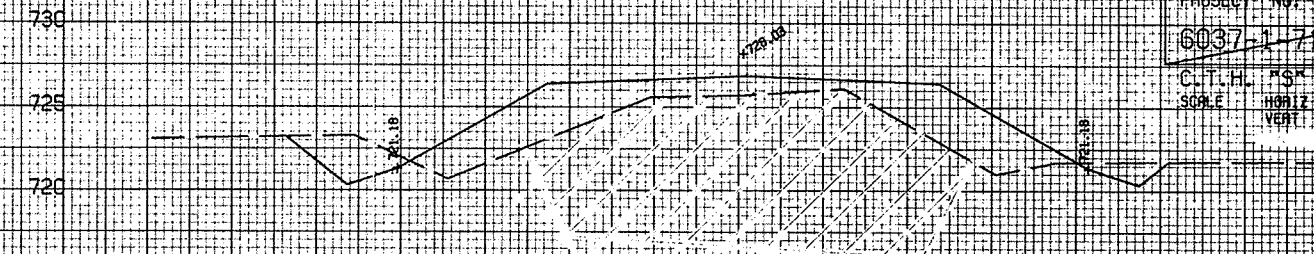


75+00.00



74+00.00

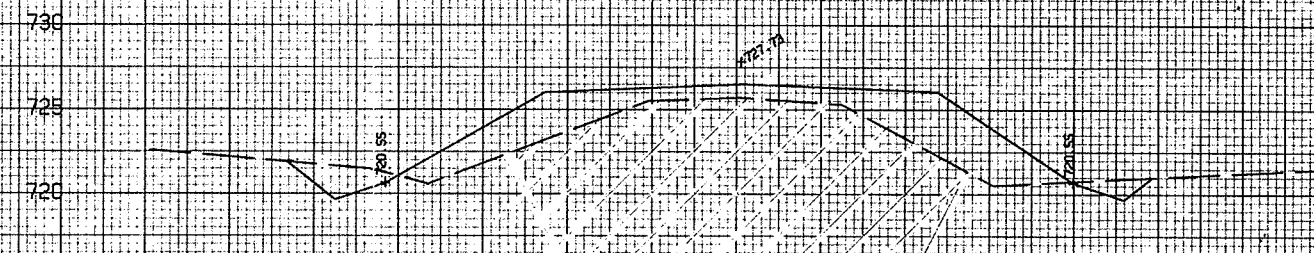
PROJECT NO.
6037-1-71.72
C.T.H. "S"
SCALE HORIZ IN = 10 FT
VERT IN = 5 FT



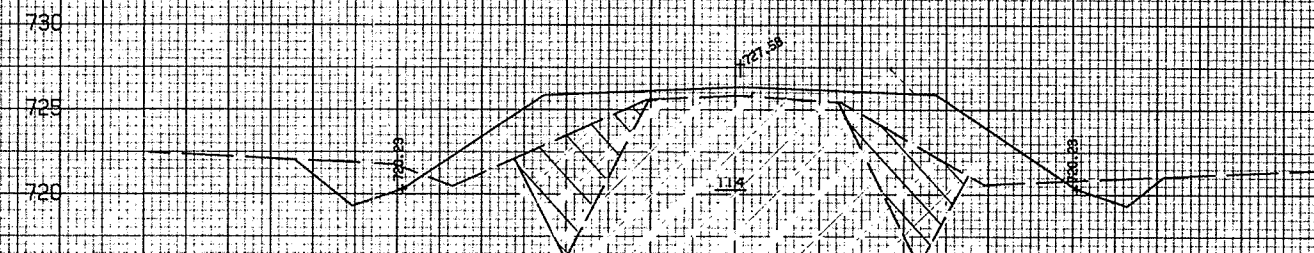
83+00.00



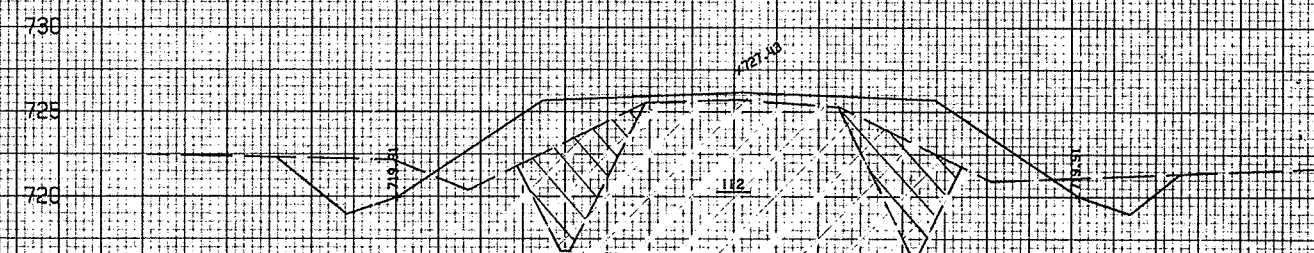
82+00.00



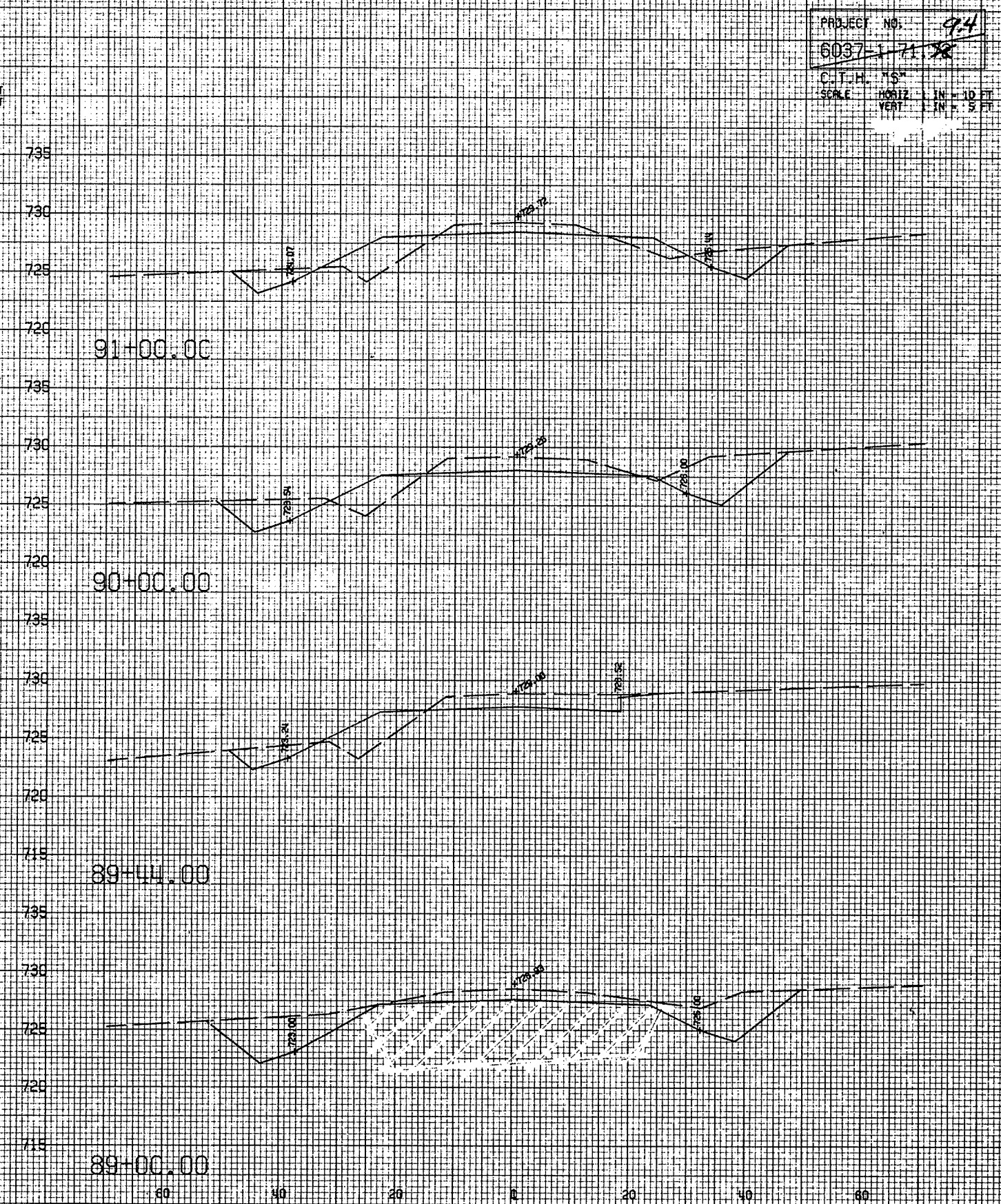
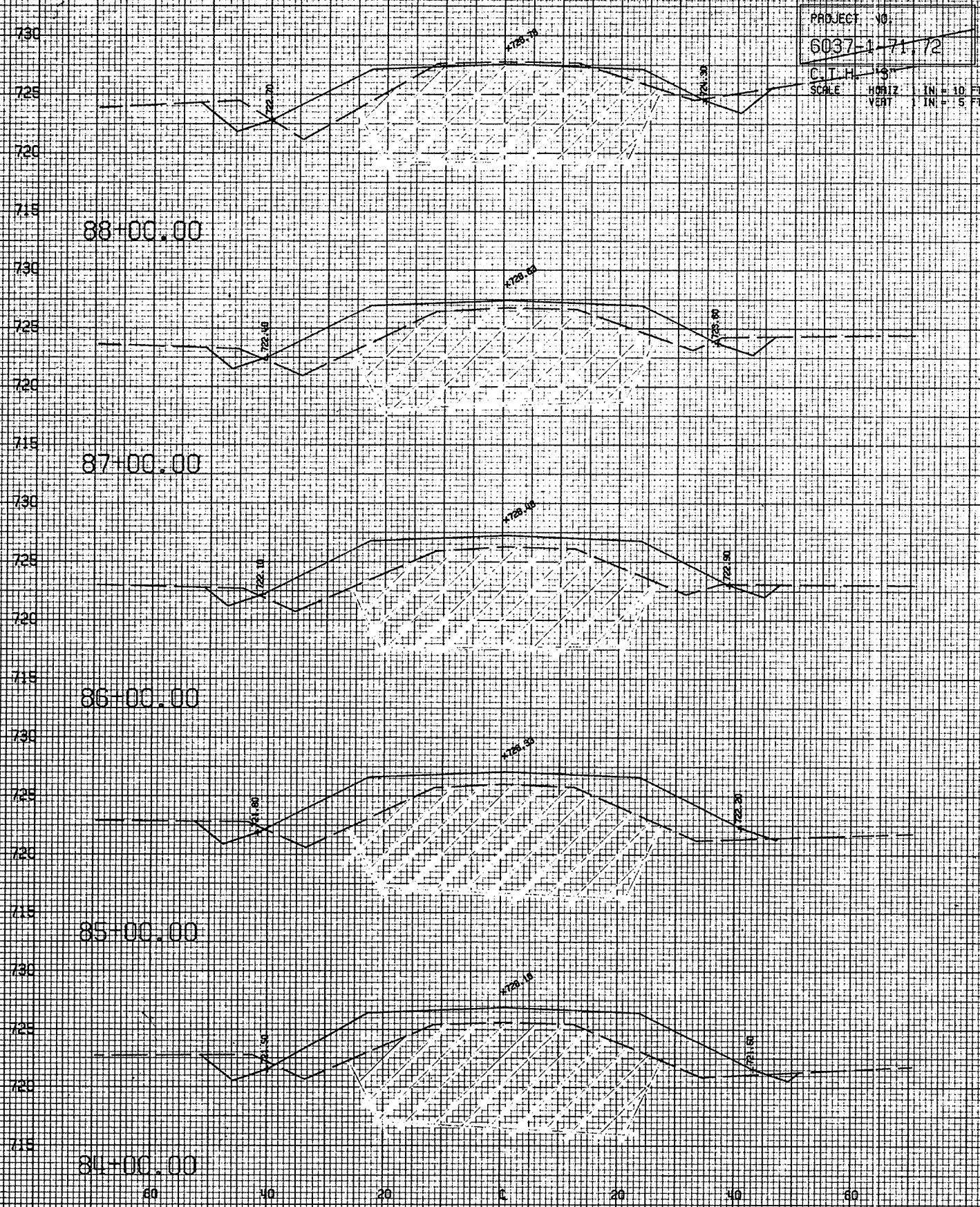
81+00.00



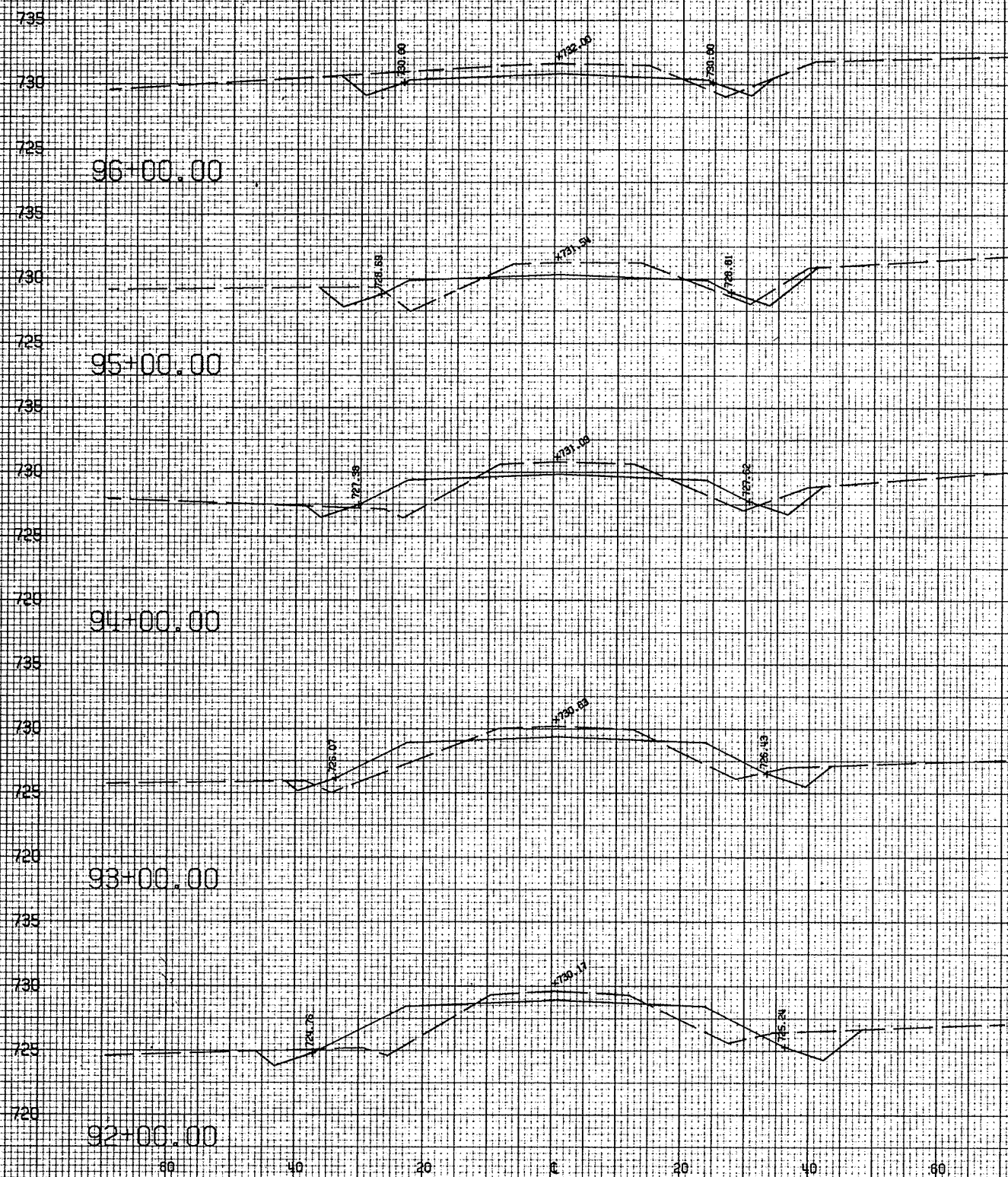
80+00.00



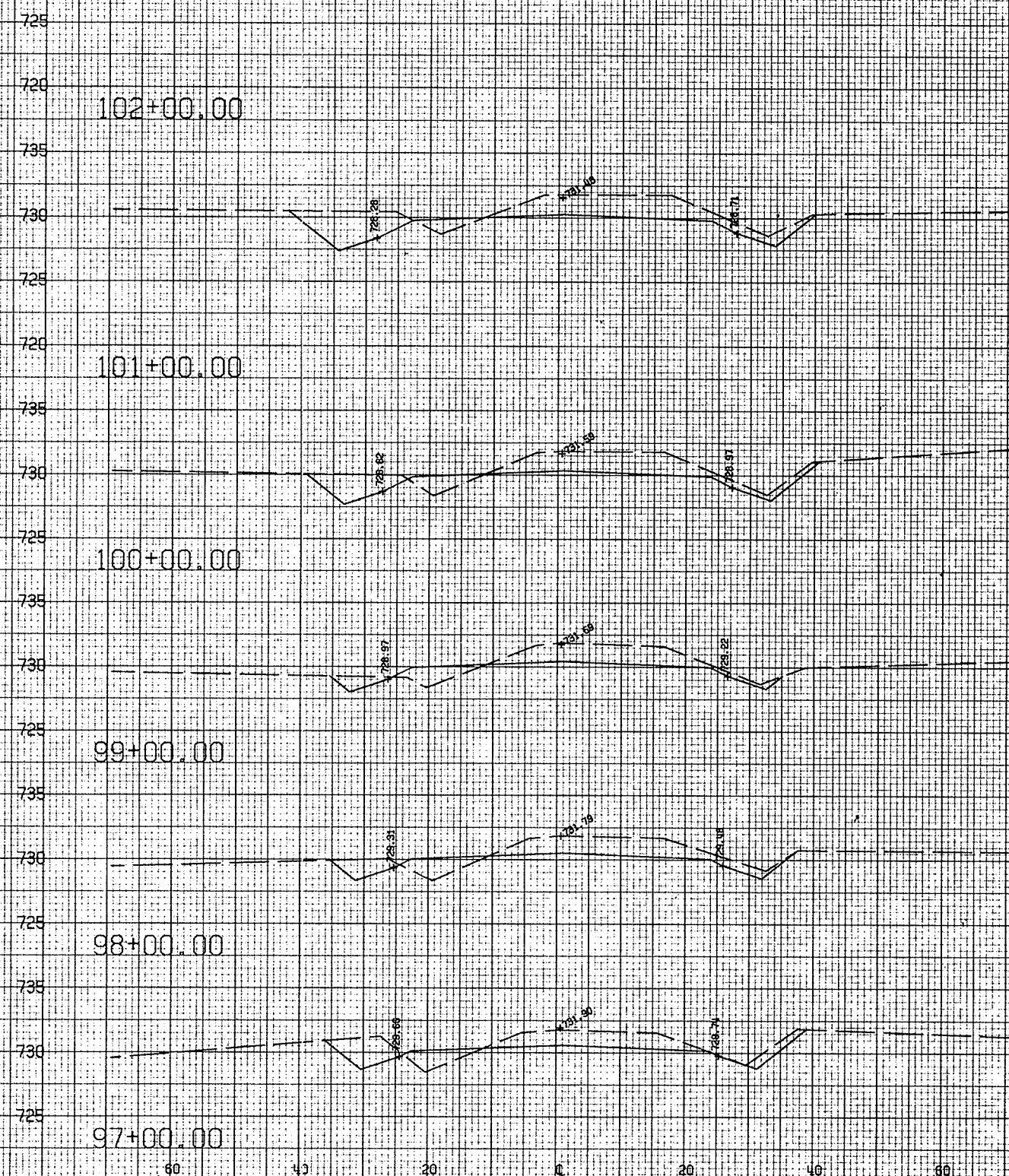
79+00.00

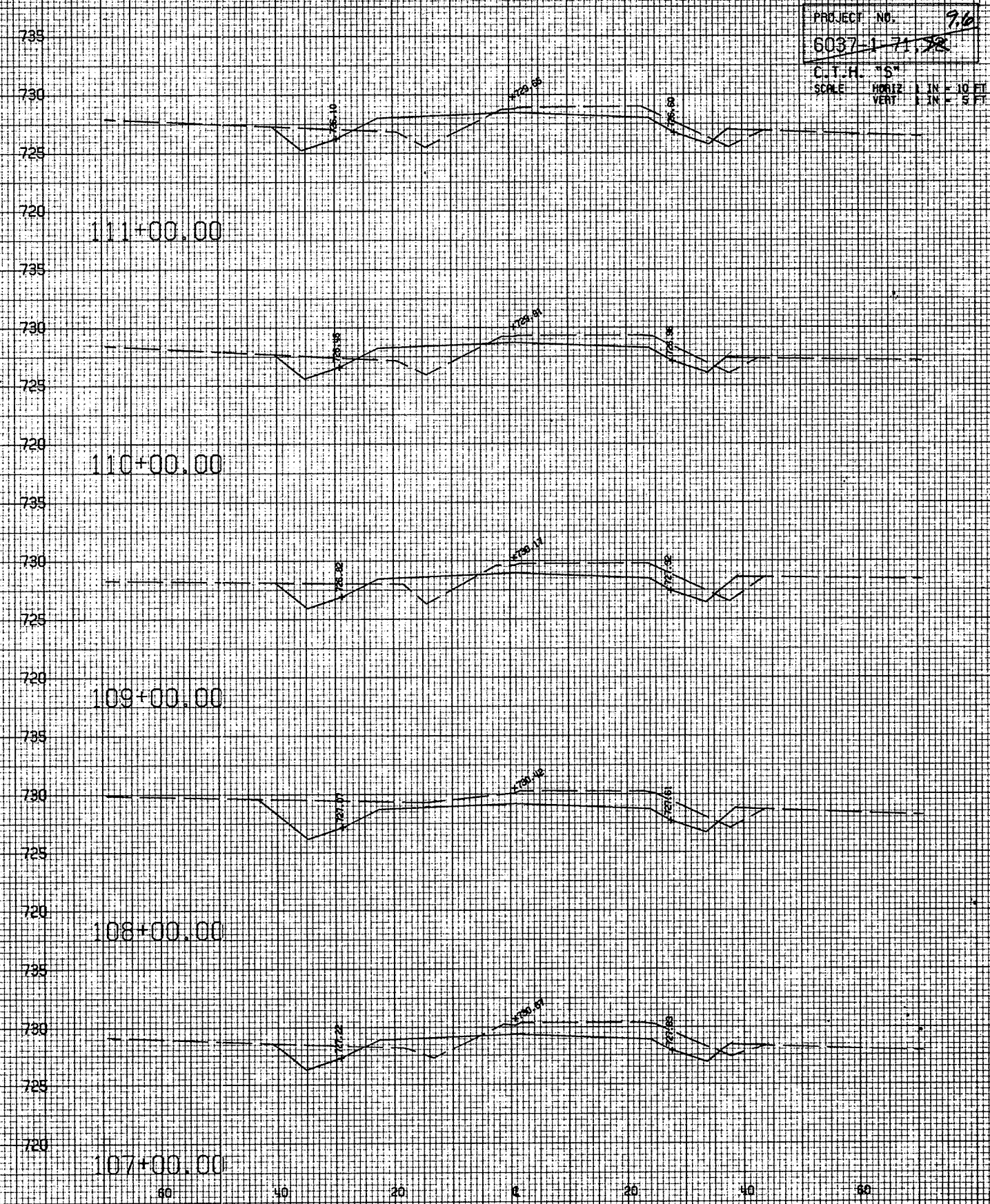
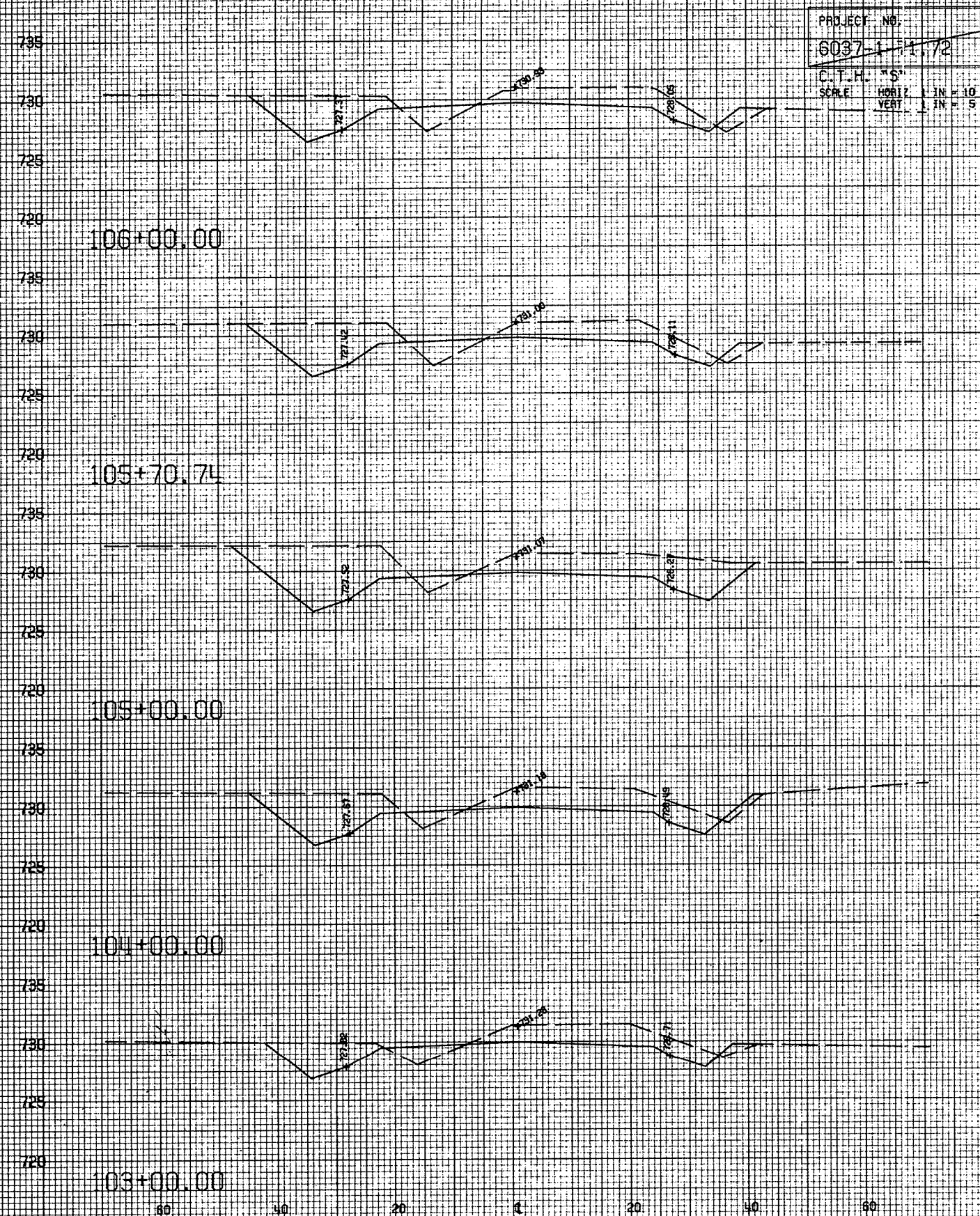


PROJECT NO.
6037-1 71.72
C.T.H. 15M
SCALE HORIZ IN 10 FT
VERT IN 5 FT



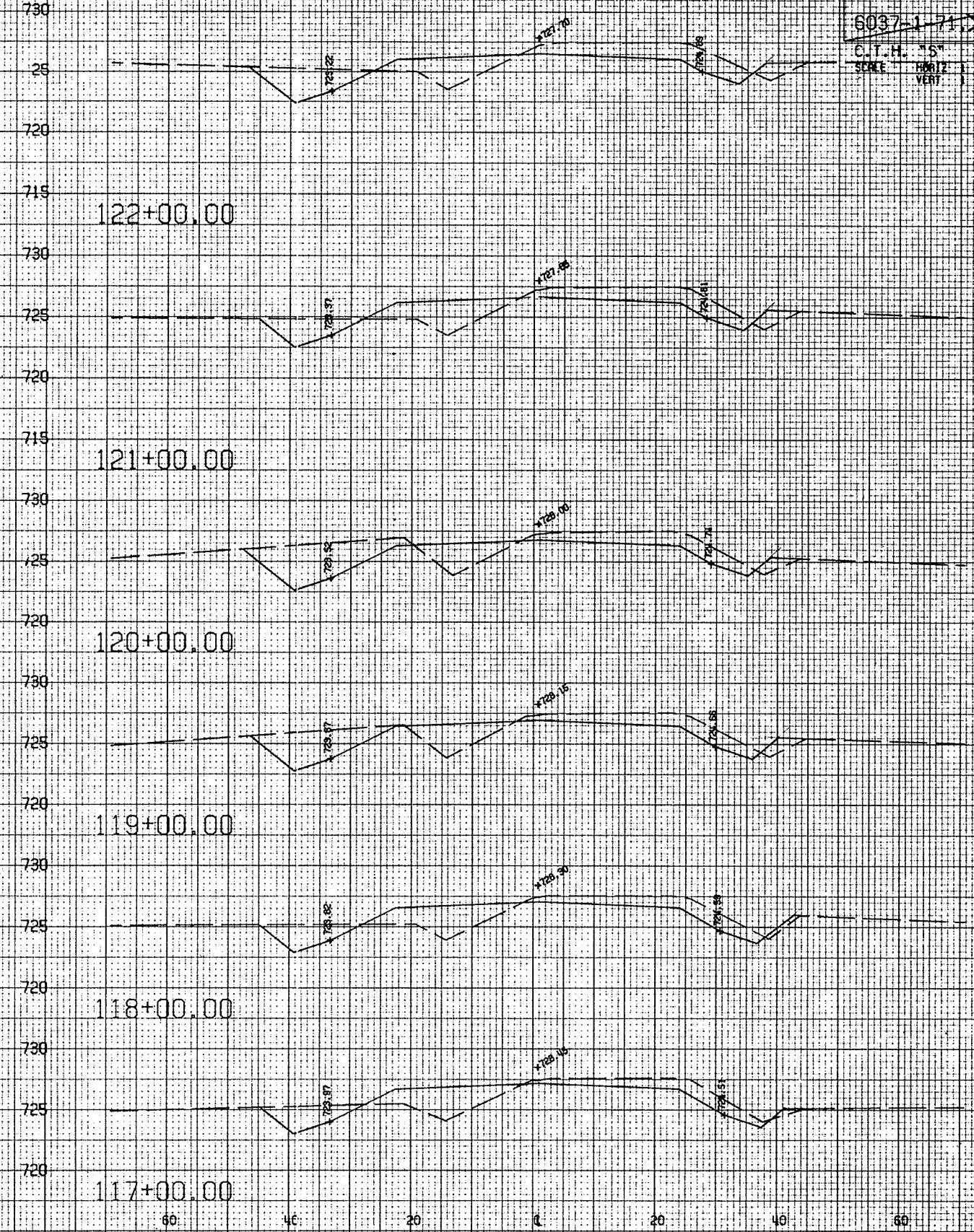
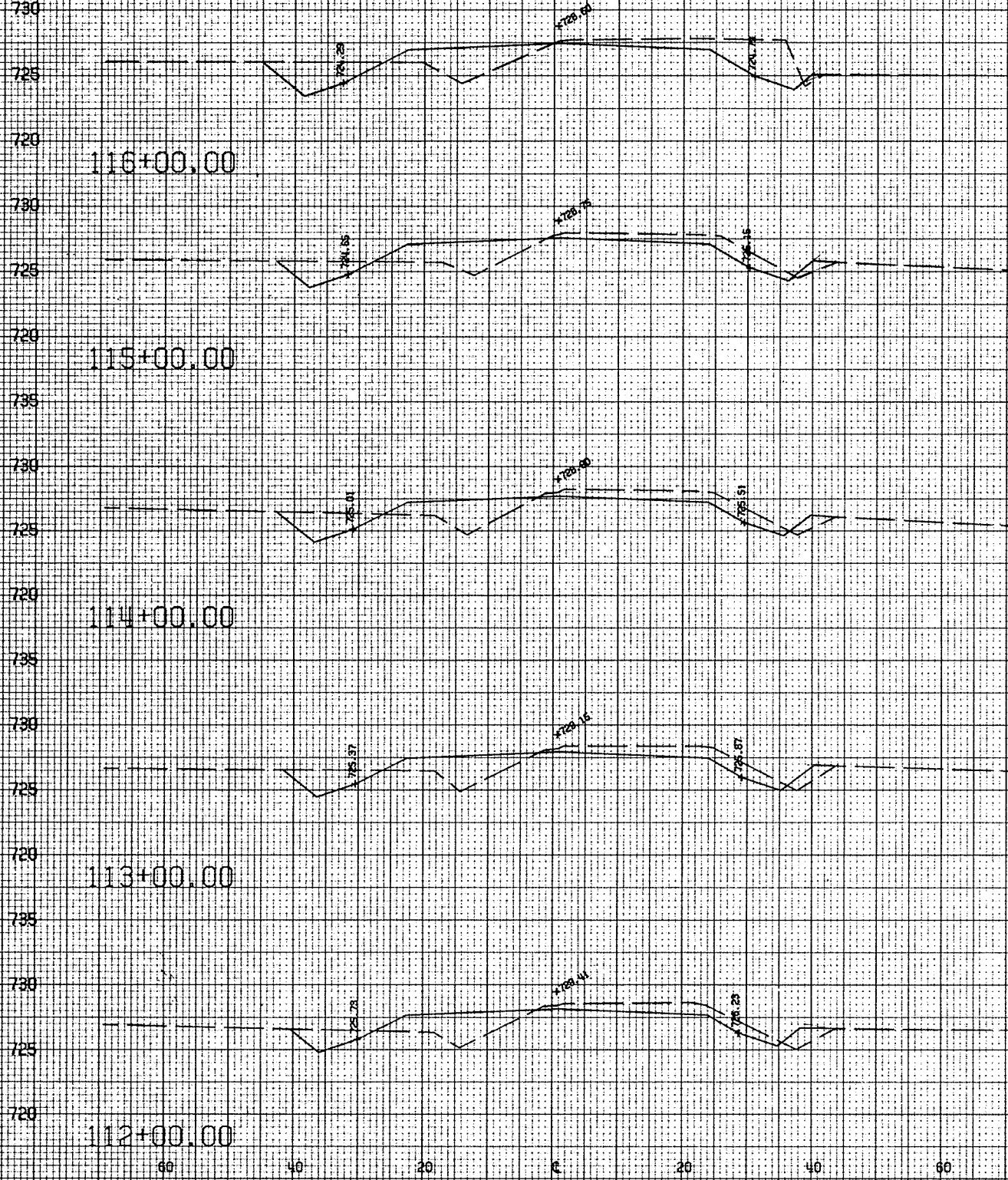
PROJECT NO.
6037-1 71.72
C.T.H. 15M
SCALE HORIZ IN 10 FT
VERT IN 5 FT





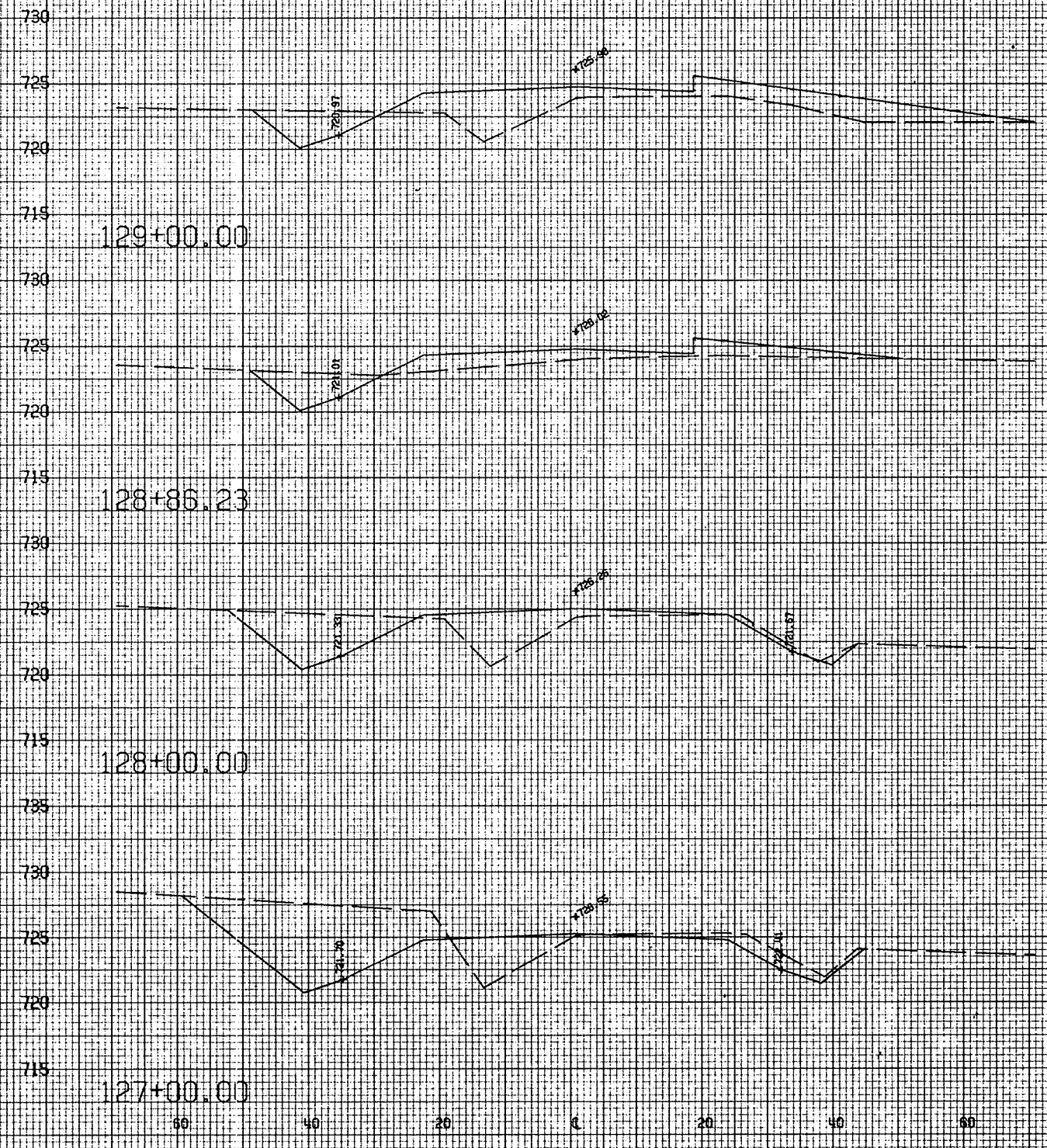
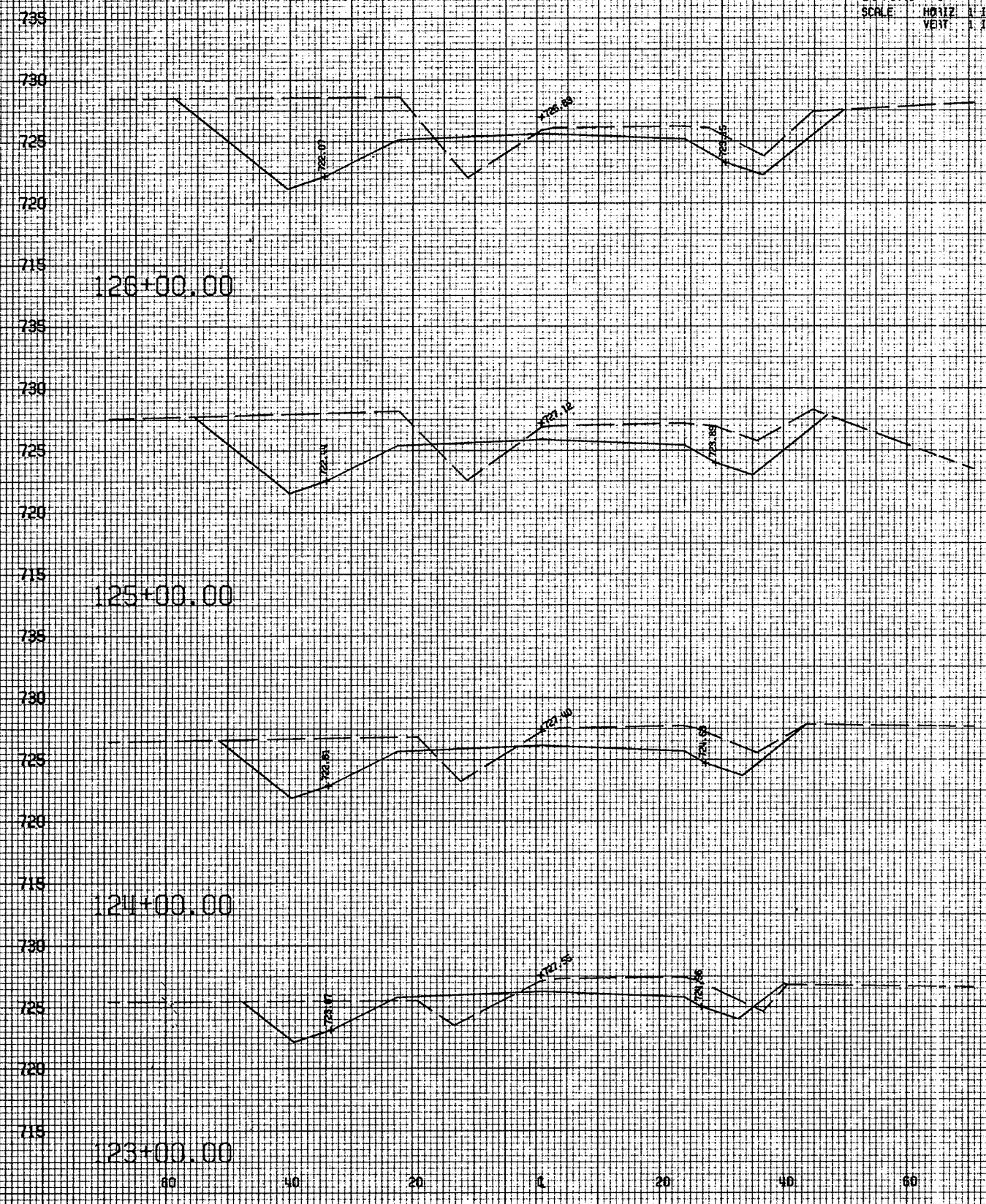
PROJECT NO.
6037-1-71.72
C.T.H. "S"
SCALE HORIZ 1 IN = 10 FT
VERT 1 IN = 5 FT

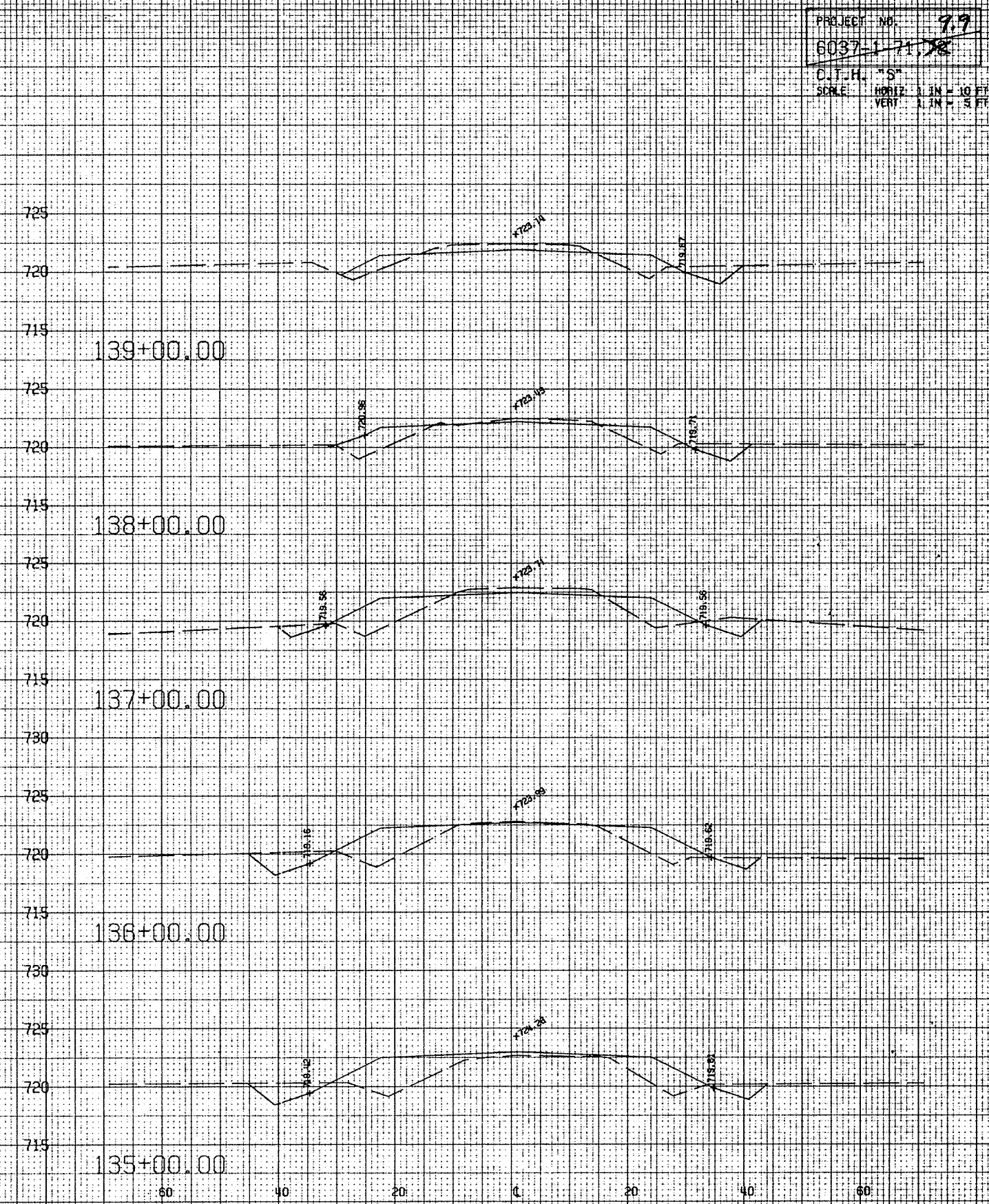
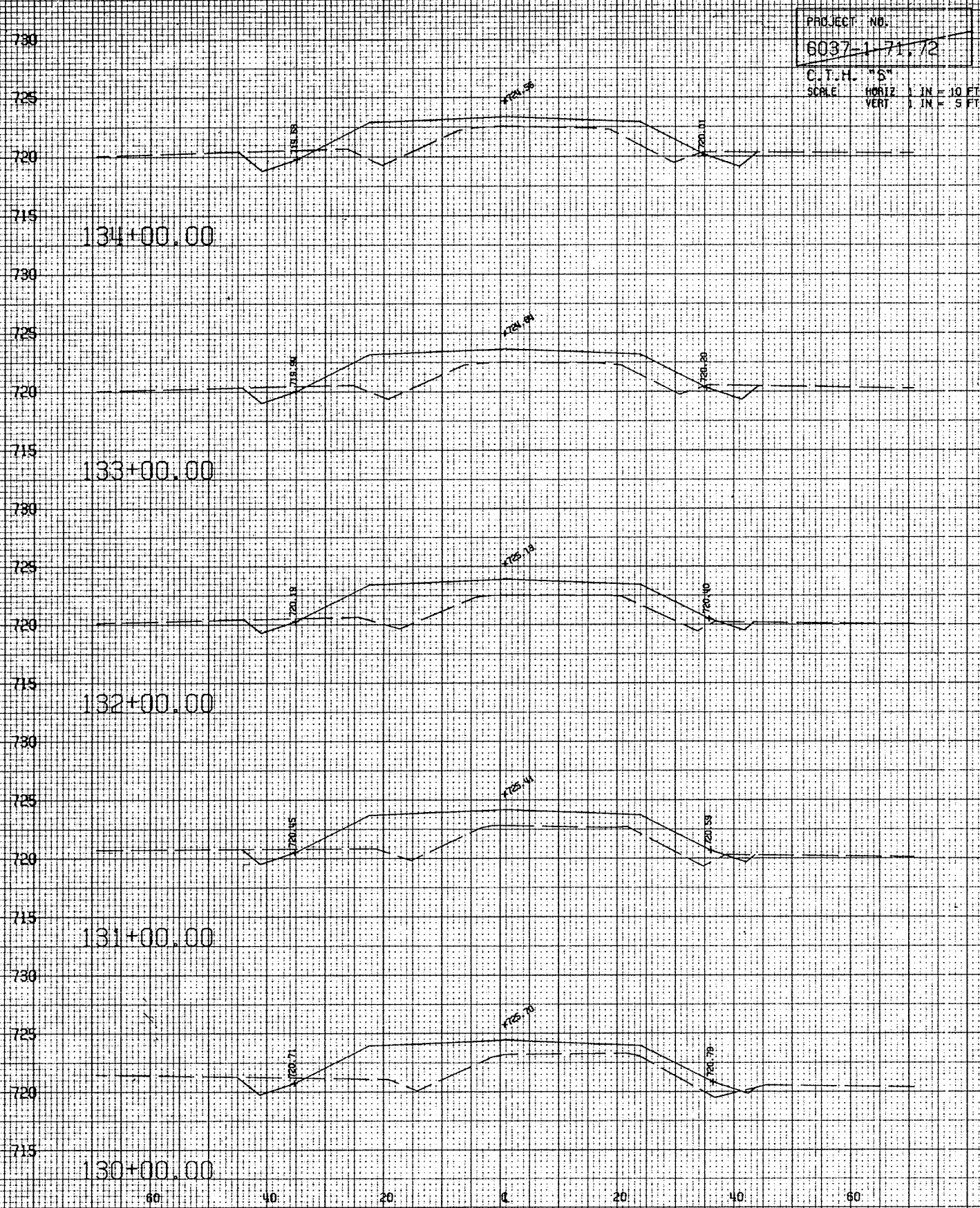
PROJECT NO. 9.7
6037-1-71.72
C.T.H. "S"
SCALE HORIZ 1 IN = 10 FT
VERT 1 IN = 5 FT

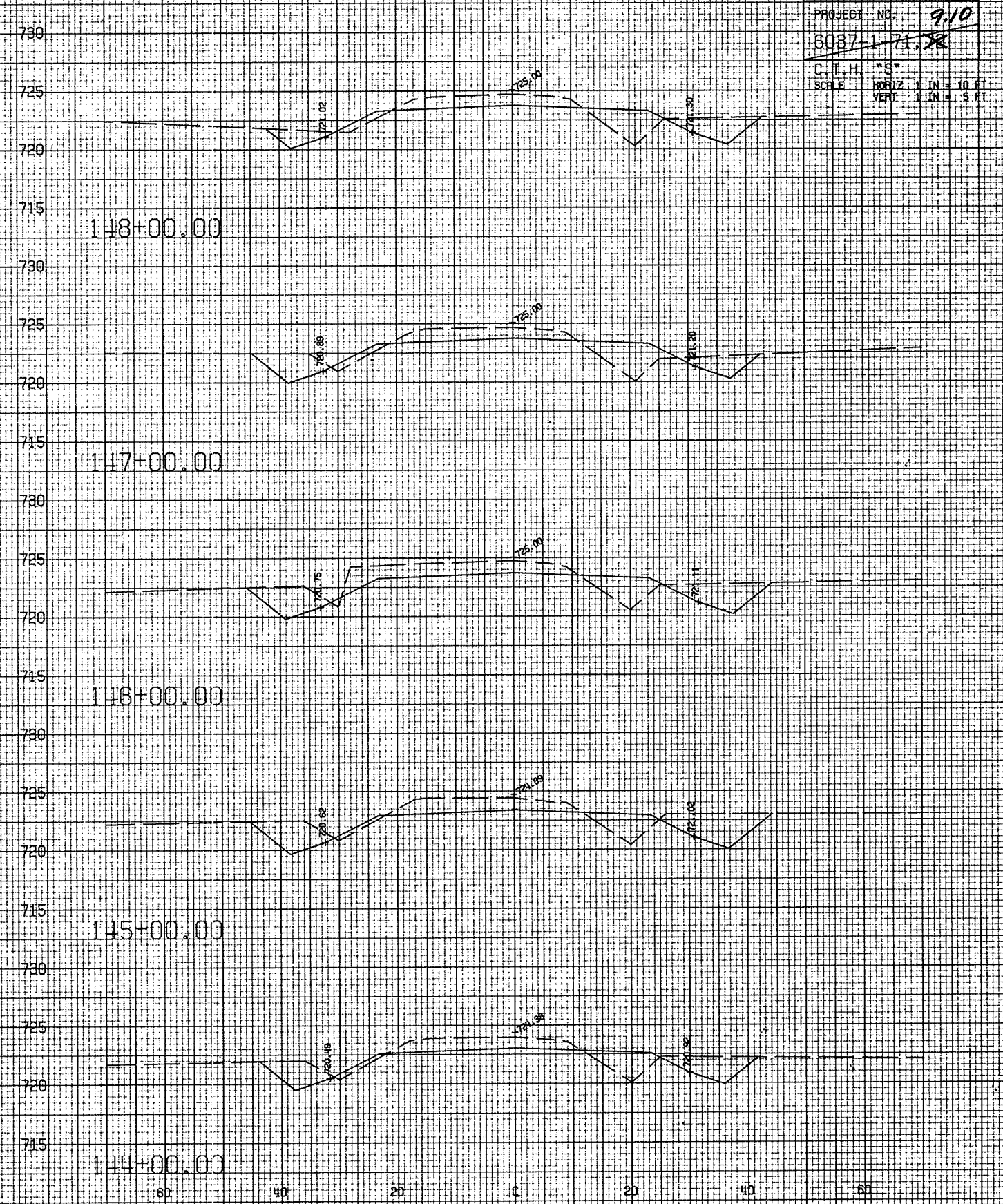
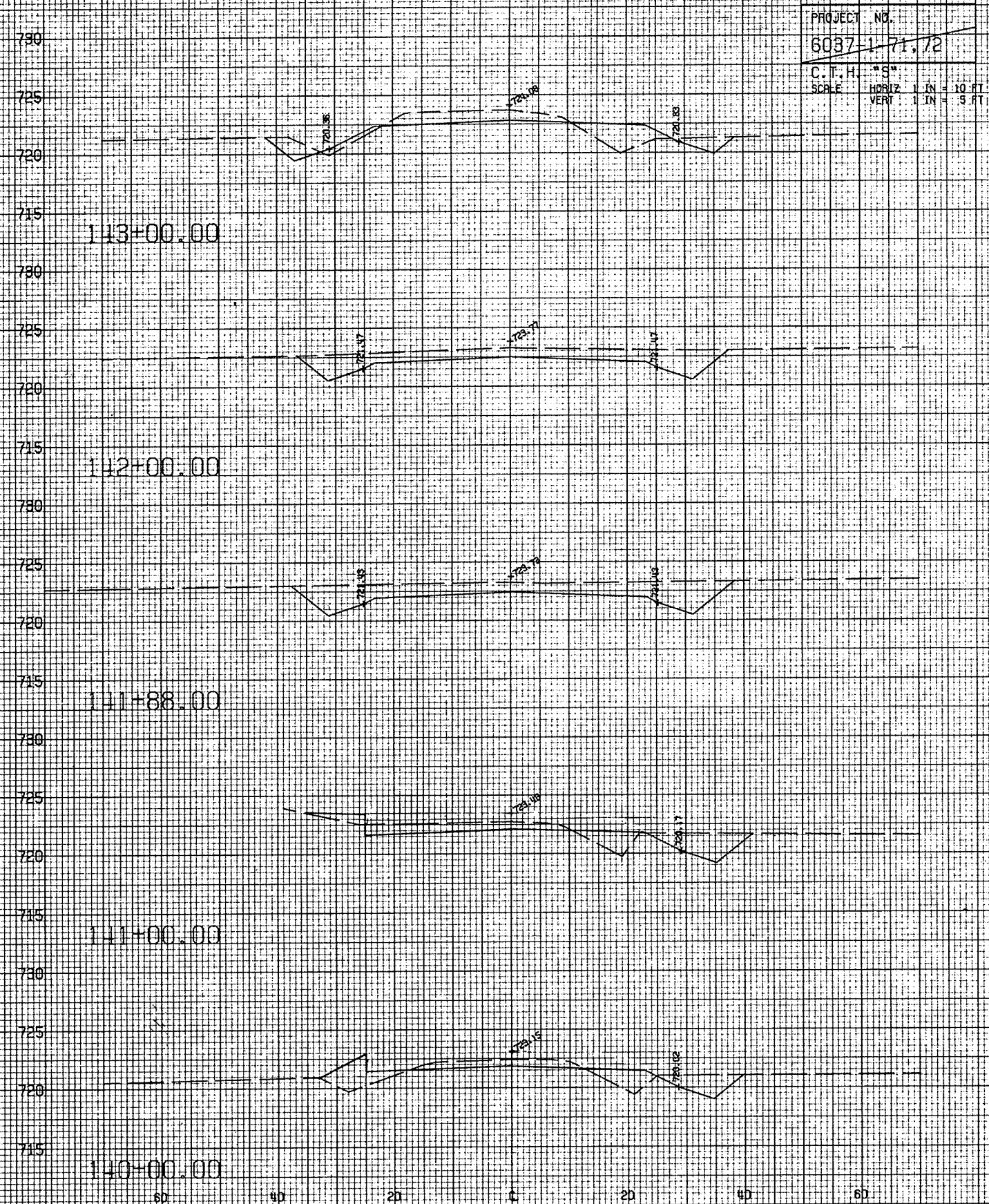


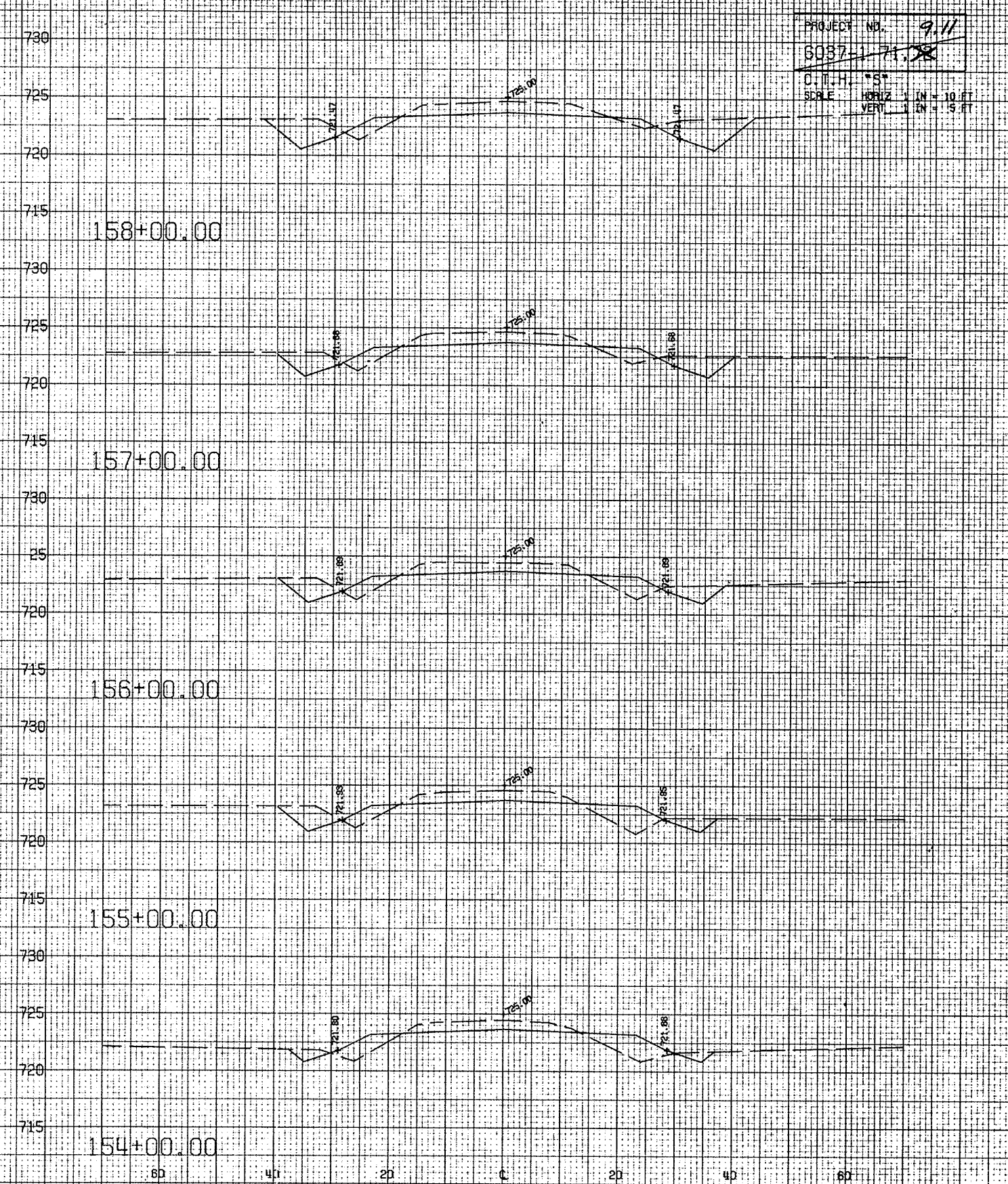
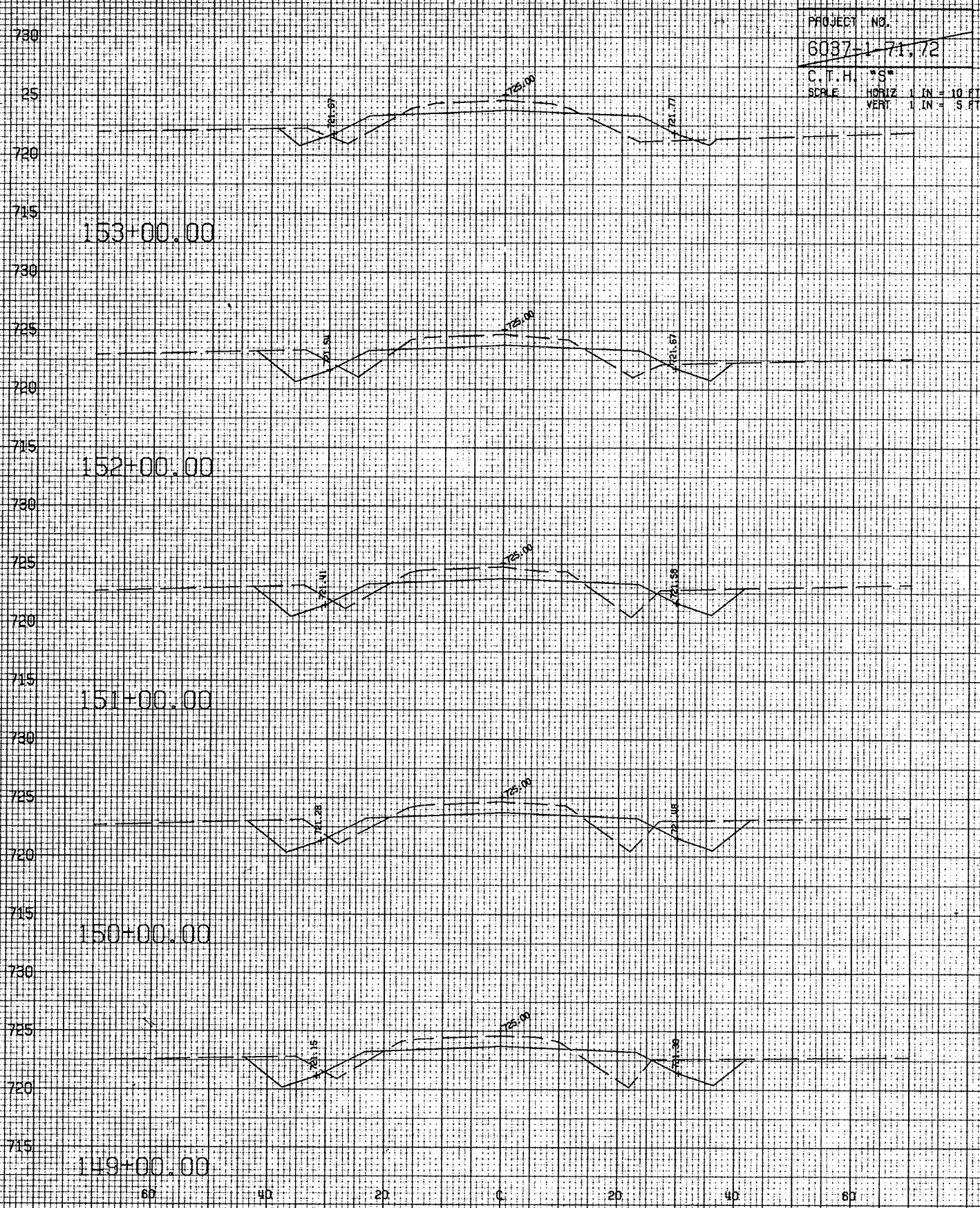
PROJECT NO.
~~6037-1-71.72~~
C.T.H. "S"
SCALE HORIZ. 1 IN = 10 FT
VERT. 1 IN = 5 FT

PROJECT NO. **7.8**
~~6037-1-71.72~~
C.T.H. "S"
SCALE HORIZ. 1 IN = 10 FT
VERT. 1 IN = 5 FT









PROJECT NO.
6037-71.72
C.T.H. "S"
SCALE HORIZ. 1 IN. = 10 FT.
VERT. 1 IN. = 5 FT.

PROJECT NO. 912
6037-71.72
C.T.H. "S"
SCALE HORIZ. 1 IN. = 10 FT.
VERT. 1 IN. = 5 FT.

730

725

720

715

163+00.00

730

725

720

715

162+00.00

730

725

720

715

161+00.00

730

725

720

715

160+00.00

730

725

720

715

159+00.00

60

40

20

0

20

40

60

25

720

715

168+00.00

725

720

715

167+00.00

725

720

715

166+00.00

725

720

715

165+84.76

725

720

715

165+00.00

730

725

720

715

164+00.00

60

40

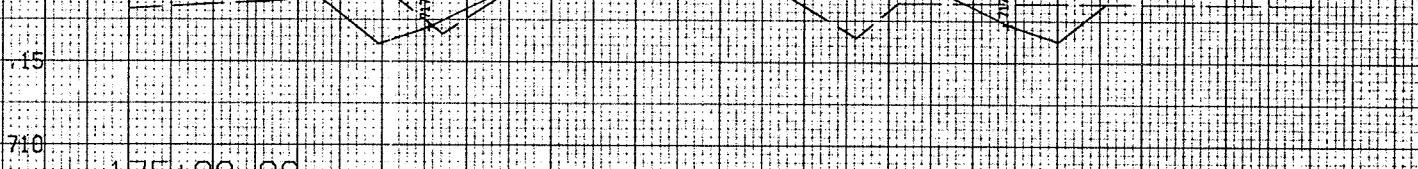
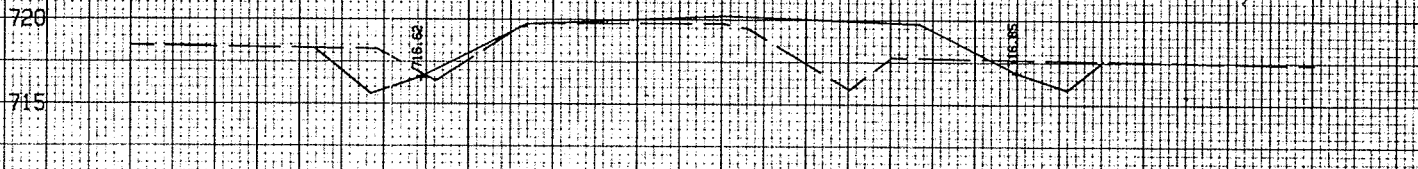
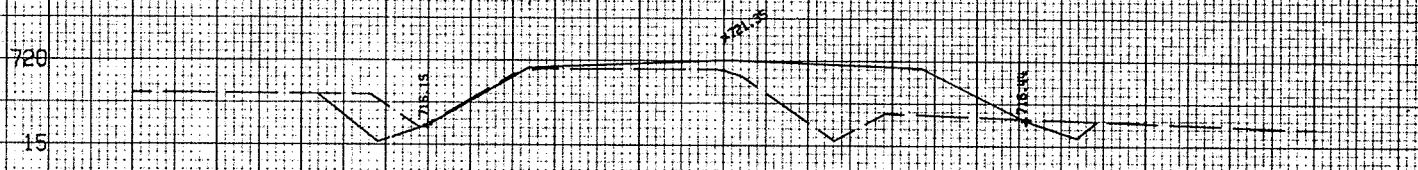
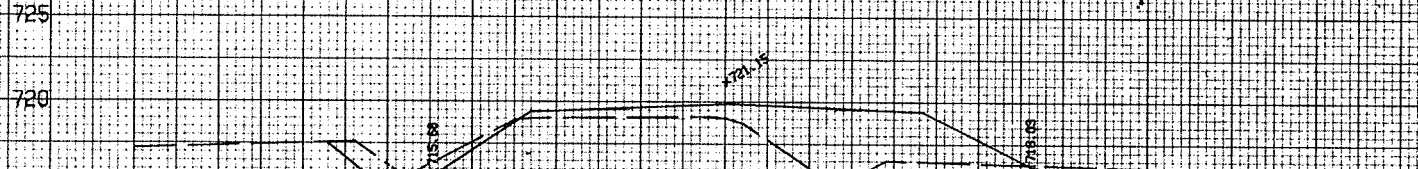
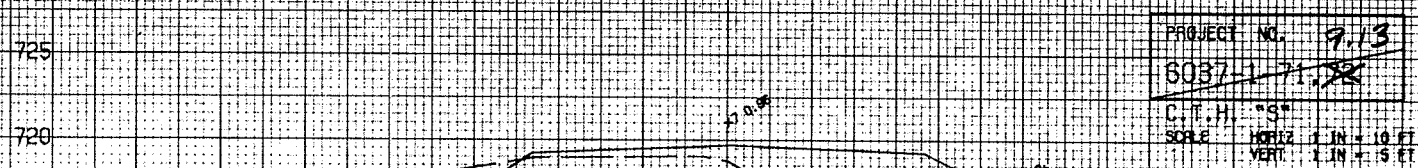
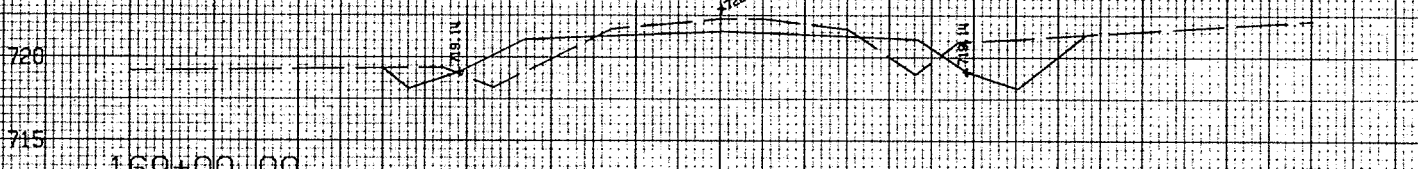
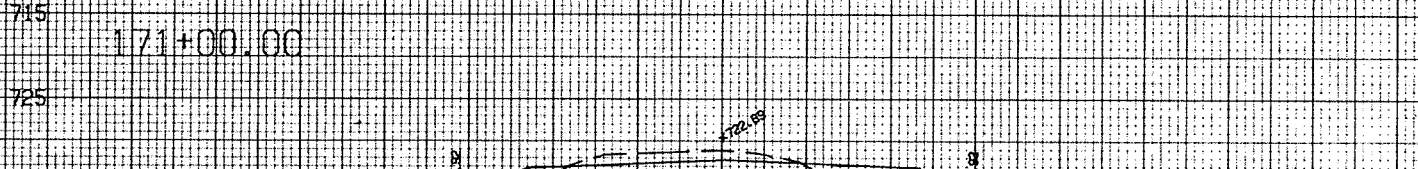
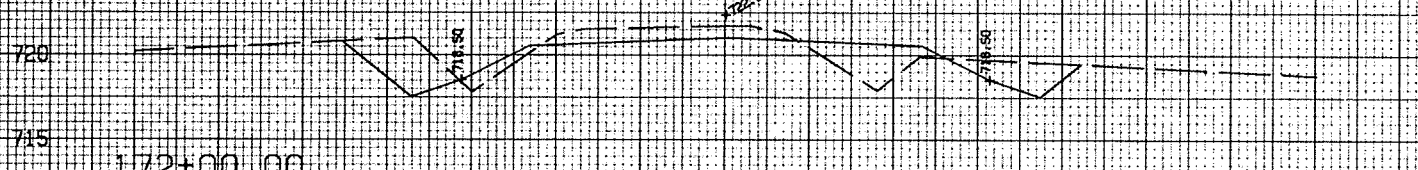
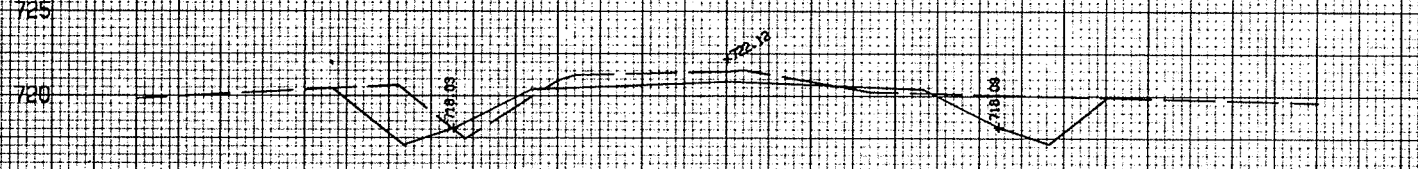
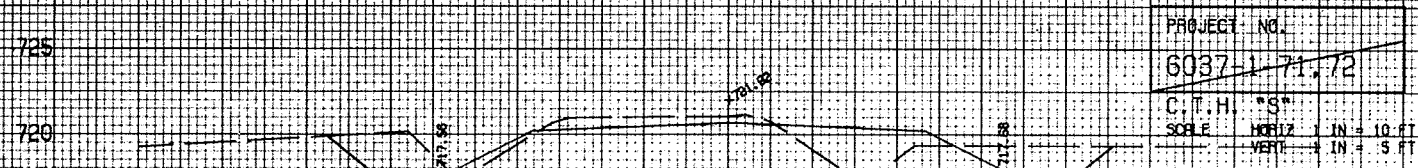
20

0

20

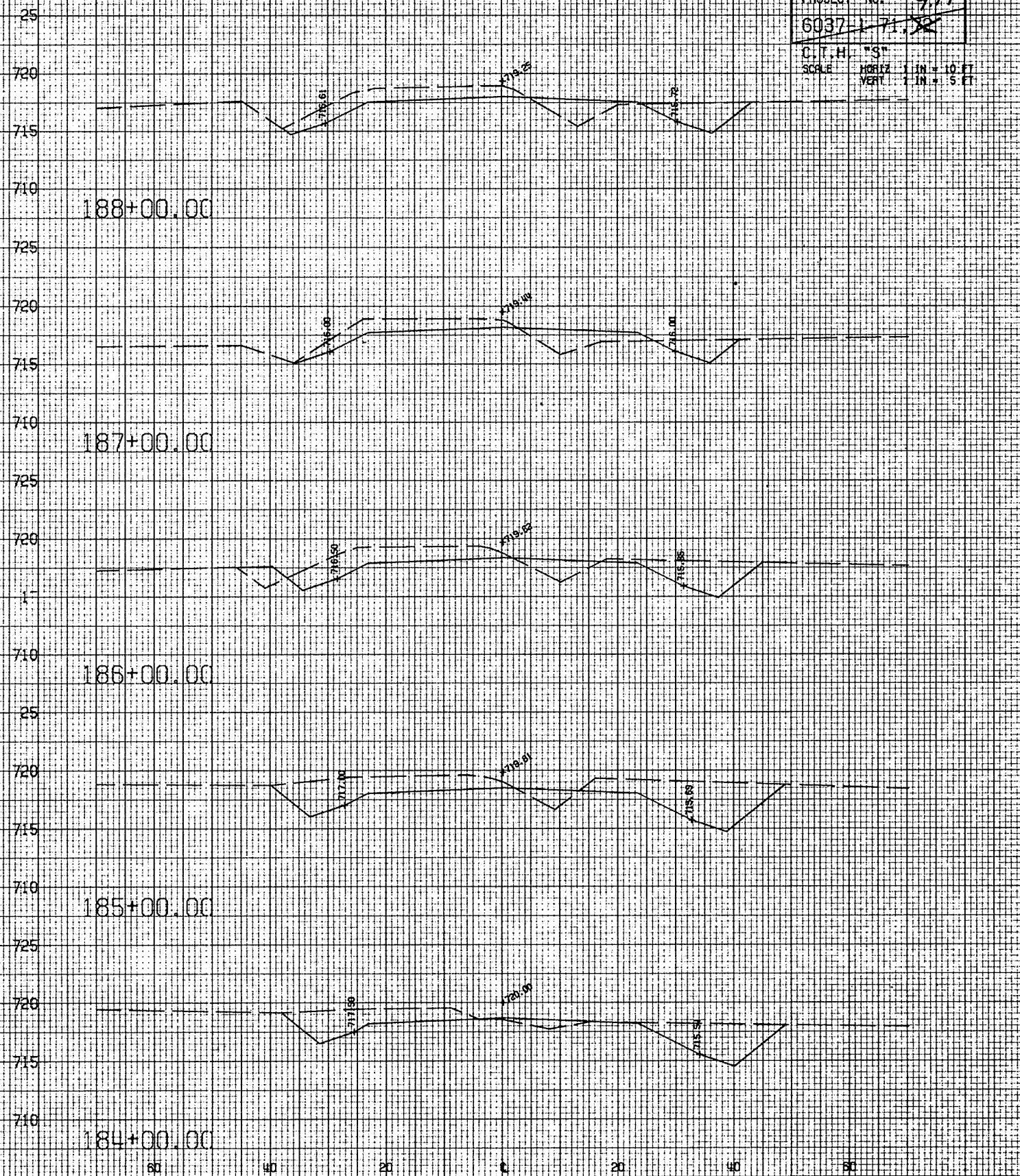
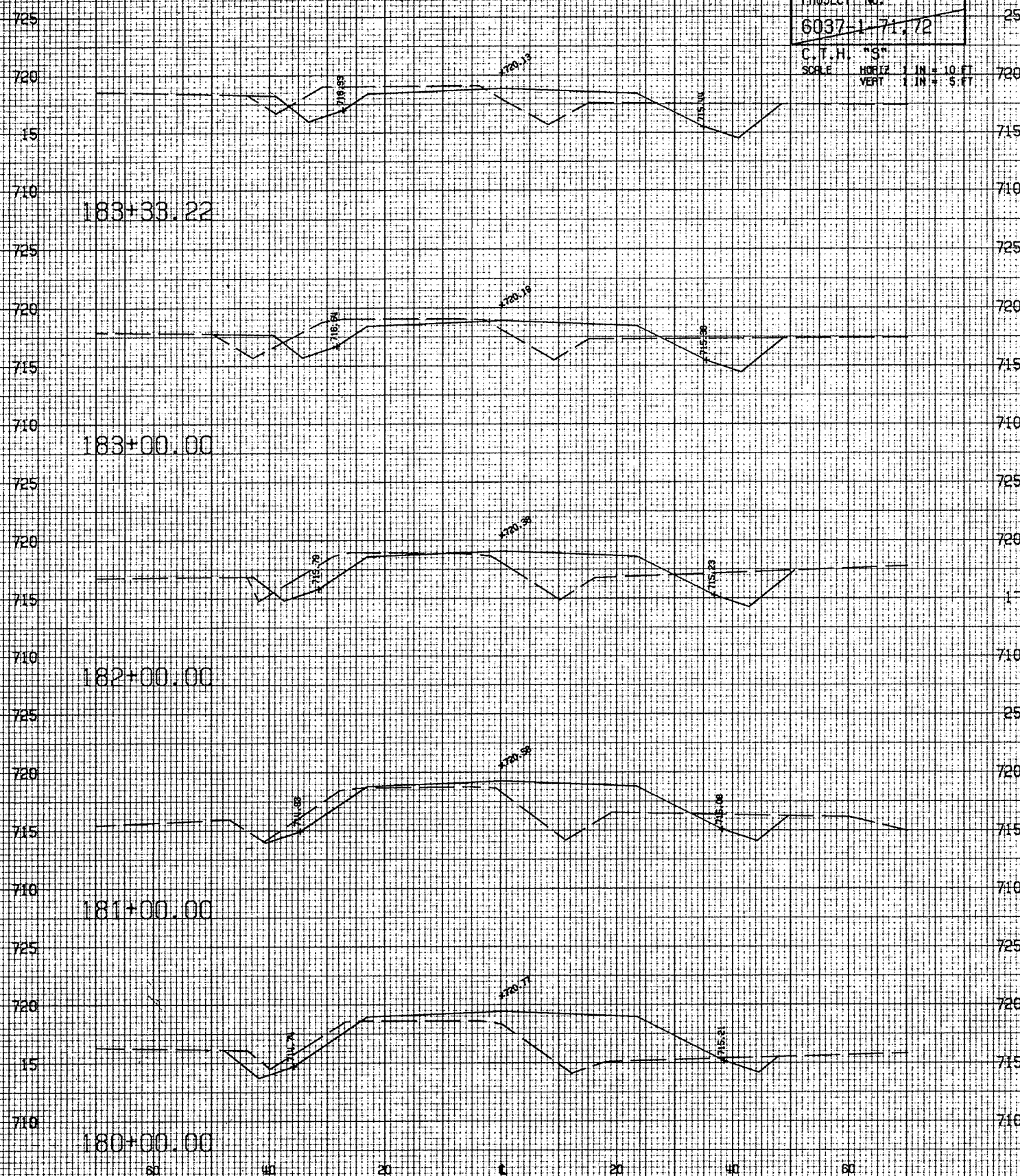
40

60



PROJECT NO.
6037-1-71.72
C.T.H. "S"
SCALE HORIZ 1 IN = 10 FT
VERT 1 IN = 5 FT

PROJECT NO. 9.14
6037-1-71.82
C.T.H. "S"
SCALE HORIZ 1 IN = 10 FT
VERT 1 IN = 5 FT



PROJECT NO. 9.16
6037-1-71.28
C.T.H. "S"
SCALE HORIZ 1 IN = 10 FT
VERT 1 IN = 5 FT

