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Sheet No. 8-8.36 Structure Plans
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Sheet No. 9.23-9.173 Cross Sections

TOTAL SHEETS = 379

STATE OF WISCONSIN
DEPARTMENT OF TRANSPORTATION

PLAN OF PROPOSED IMPROVEMENT
LOOMIS ROAD
(BURLINGTON TO NORTH OF KRAMER ROAD)

STH 36
RACINE COUNTY

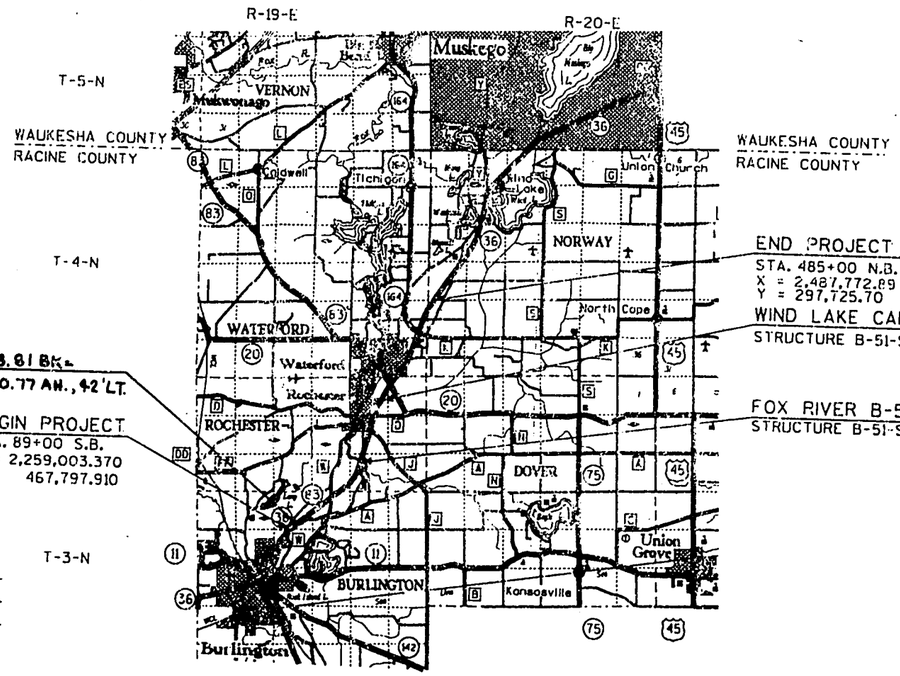
STATE PROJECT	FEDERAL PROJECT	
	PROJECT	CONTRACT
2240-07-70	MA-D 064 (23)	1

PROJECT MANAGER JOHN KNAPP
PROJECT PERSONELL SEE DIARY
START DATE MAY 1, 1995
COMPLETION DATE DEC 1, 1995

CONTRACTOR HOFFMAN CONST. CO.
GRADING, STORM SEWER
SUB CONTRACTORS TRAFFIC SIGNING & MARKING
TRAFFIC CONTROL
T & R CLEARING INC
CLEARING & GRUBBING
PAVING MIX & CONST. CO
ASPHALT PAVING
PARISI CONST.
CURB & GUTTER
LUNDA CONST. CO.
BRIDGES
PLATT SAWING & DRILLING
PAVEMENT SAWING
KUEHNE
LANDSCAPING
B. R. AMON
CRUSHED AGG BASE CRS.



STATE PROJECT NUMBER
2240-07-70



TOTAL NET LENGTH OF CENTERLINE = 7.498 MI.

DESIGN DESIGNATION

A.D.T.	1995	= 8,800-12,500
A.D.T.	2015	= 11,000-16,700
D.H.V.	K30	= 1430-2171
D.		= 60-40
T.		= 9%
DESIGN SPEED		= 60 M.P.H.
ESALS		= 5,097,225

CONVENTIONAL SIGNS

COUNTY LINE	COMBUSTIBLE FLUIDS
CORPORATE LIMITS	
PROPERTY LINE	UNDERGROUND UTILITIES
LOT LINE	GAS
LIMITED EASEMENT	ELECTRIC
EXISTING RIGHT OF WAY	TELEPHONE OR TELEGRAPH
PROPOSED OR NEW R/W LINE	SERVICE PEDESTAL
SURVEY LINE	CABLE MARKER
SLOPE INTERCEPT	POWER POLE
ORIGINAL GROUND	TELEPHONE POLE
MARSH OR ROCK PROFILE	RAILROAD
EXISTING CULVERT	MARSH AREA
PROPOSED CULVERT (Box or Pipe)	WOODED OR SHRUB AREA
CULVERT (Profile View)	

STATE OF WISCONSIN
DEPARTMENT OF TRANSPORTATION

PREPARED BY
Surveyor
Project Manager SHERI SCHULT
Project Team ANDY MAZZELLI
CHUCK RUFF
JEAN PETLAS
SHERE FOX

District Examiner JOHN KNAPP
Team Leader RONALD CECH
C.O. Examiner RAY CALKINS

APPROVED FOR DISTRICT OFFICE
DATE: 11-15-94 Ralph Buenzli (Signature)

AUTHORIZED FOR CENTRAL OFFICE DESIGN
DATE: 12/6/94 Robert W. Roy (Signature)

IF 2240-07-00

3 80-T 75-D 3-FWI

FILE NAME: d2 2240073Gsita.dgn

GENERAL NOTES

1. THE LOCATIONS OF EXISTING AND PROPOSED UTILITY INSTALLATIONS AS SHOWN ON THE PLANS ARE APPROXIMATE. THERE MAY BE OTHER UTILITY INSTALLATIONS WITHIN THE PROJECT AREA THAT ARE NOT SHOWN.

2. NO TREES AND SHRUBS ARE TO BE REMOVED WITHOUT THE APPROVAL OF THE ENGINEER.

3. ALL DISTURBED AREAS, NOT SURFACED, ARE TO BE COVERED WITH 4-INCH SALVAGED TOPSOIL, SEED, FERTILIZER AND MULCH, UNLESS OTHERWISE DIRECTED BY ENGINEER.

4. WHEN THE QUANTITY OF THE ITEM OF BASE COURSE OR ASPHALTIC PAVEMENT, TYPE MV ON THE PLANS IS APPROXIMATE AND THE ACTUAL THICKNESS WILL DEPEND OF THE DISTRIBUTION OF THE MATERIAL AS DIRECTED BY THE ENGINEER.

5. N.I.C. - NOT INCLUDED IN THIS CONTRACT.

6. ELEVATIONS SHOWN FOR CURB AND GUTTER ARE FLANGE ELEVATION DISTANCES SHOWN FOR CURB AND GUTTER IN RADII ARE ME MEASURED ALONG FLANGE.

7. THE COST OF CONNECTING CULVERT PIPE, STORM SEWER PIPE DRAIN TILES TO EXISTING DRAINAGE STRUCTURES SHALL BE INCIDENTAL TO OTHER CONSTRUCTION ITEMS.

8. THE EXACT LOCATION OF PRIVATE ENTRANCES IS TO BE DETERMINED IN THE FIELD BY THE ENGINEER.

STATION	OFFSET TO SB CENTERLINE FROM REFERENCE LINE	OFFSET TO NB CENTERLINE FROM REFERENCE LINE
89+00	31.54 LT.	17.81 RT.
90+00	34.22 LT.	14.66 RT.
91+00	36.32 LT.	10.20 RT.
92+00	38.92 LT.	4.44 RT.
93+00	41.66 LT.	0.00 RT.
94+00	44.53 LT.	
95+00	47.55 LT.	
96+00	50.70 LT.	
97+00	53.99 LT.	
98+00	57.42 LT.	
99+00	60.98 LT.	
100+00	64.68 LT.	
101+00	69.24 LT.	
102+00	30.33 LT.	
103+00	32.25 LT.	
104+00	32.99 LT.	
105+00-155+00	33.00 LT.	
156+00	34.75 LT.	
157+00	36.50 LT.	
158+00	38.25 LT.	
159+00	40.00 LT.	
160+00	41.77 LT.	
161+00-162+00	43.00 LT.	
166+00		44.47 RT.
167+00		43.86 RT.
168+00		43.24 RT.
169+00		42.62 RT.
170+00		42.00 RT.
171+00		40.84 RT.
172+00		38.63 RT.
173+00		36.42 RT.
174+00		34.21 RT.
175+00-485+00		32.00 RT.

UTILITY LIST

BURROWS EVERETT
MARCUS CABLE
364 S PINE STREET
BURLINGTON WI 53105
763 8158

FALATYK SANDY
WARNER CABLE
5475 W ABBOT AVE
GREENFIELD WI 53220
282 6300 EXT 211

LONDRE JERRY
WISCONSIN ELECTRIC POWER CO
7815 NORTHWESTERN AVE
RACINE WI 53406
886 7032

LENTZ FRED
WISCONSIN NATURAL GAS CO
120 E SHERIDAN SPRING RD
LAKE GENEVA WI 53147
414 248 8861

HEWITT DONALD
S E TELEPHONE COMPANY
311 ELIZABETH ST
P O BOX 190
WATERFORD WI 53185
414 534 5110

BEDA JOHN
AMERITECH
301 E MILWAUKEE STREET
JANESVILLE WI 53545 3083
608 755 5595

HANSMAN CHANDLER
WISCONSIN NATURAL GAS CO
201 1ST STREET CTH "KR"
RACINE WI 53403
414 552 3235

KOCEJA CHRISTOPHER
CITY ENGINEER
CITY OF BURLINGTON
200 E JEFFERSON STREET
BURLINGTON WI 53105
414 763 6011

BREZINSKI FRANKIE (MS)
VILLAGE CLERK
VILLAGE OF WATERFORD
123 NORTH RIVER STREET
WATERFORD WI 53185
414 534 3380

MAYER MARY
TOWN CLERK
TOWN OF WATERFORD
415 N MILWAUKEE
WATERFORD WI 53185
414 534 2350

HANDSCHU CATHERINE
TOWN CLERK
TOWN OF ROCHESTER
34314 OAK KNOLL ROAD
BURLINGTON WI 53105
414 534 3282

LOUGHNEY JOHN
SUPER OF PUBLIC WORKS
CITY OF MUSKEGO
P O BOX 903
MUSKEGO WI 53150
414 679 4128

ROONEY JAMES F
RACINE COUNTY HIGHWAY COMM
14200 WASHINGTON AVE
STURTEVANT WI 53177
1 800 522 6240

BRANZOLEWSKI JEANNE
TOWN OF NORWAY CLERK
6419 HEG PARK ROAD
WIND LAKE WI 53185
414 895 6335

* EXISTING TOPSOIL DEPTHS

LOCATION	INCHES	LOCATION	INCHES
80+50-84+50	9-15	227+00-236+00	5-18
84+50-85+30	12-30	236+00-246+00	5-17
85+30-92+00	9-18	246+00-298+00	9-15
92+00-101+00	12-24	298+00-314+00	7-10
101+00-118+00	13-27	314+00-317+00	8-14
118+00-127+50	10-15	317+00-321+00	9-36
127+50-130+00	20-30	321+00-324+00	4-17
130+00-140+00	12-24	324+00-337+00	9-36
140+00-142+50	13-36	337+00-342+00	12-48
142+50-144+00	6-12	342+00-392+00	5-19
144+00-147+00	12-36	392+00-397+50	9-36
147+00-150+00	24-40	397+50-407+00	9-13
150+00-154+00	12-48	407+00-430+00	7-24
156+00-160+00	9-42	430+00-437+00	9-24
161+00-166+00	10-21	437+00-467+50	6-15
166+00-172+00	20-36	467+50-485+00	13-29
172+00-191+00	12-24		
191+00-195+00	7-11		
195+00-211+00	7-36		
211+00-227+00	10-20		

* FOR INFORMATION ONLY

MEMBER ONE CALL SYSTEMS INTERNATIONAL

TO OBTAIN LOCATION OF PARTICIPANTS' UNDERGROUND FACILITIES BEFORE YOU DIG IN WISCONSIN

CALL DIGGERS HOTLINE

TOLL FREE 1-800-242-85..
MILWAUKEE AREA (414) 259-118.
TELEFAX (414) 259-0947
TDD (For hearing impaired) 1-800-542-2289

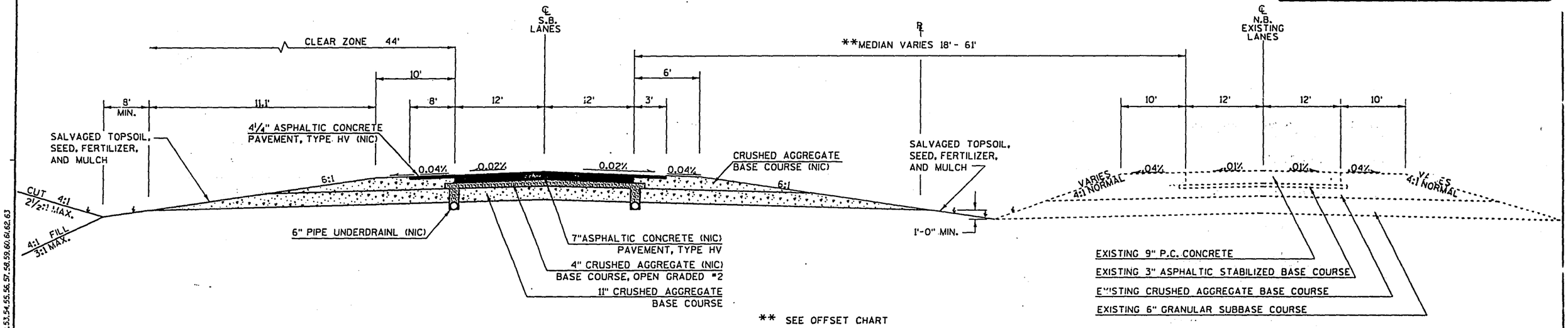
WIS. STATUTE 182.0175 (1974)
REQUIRES MIN. OF 3 WORK DAYS
NOTICE BEFORE YOU EXCAVATE.

STANDARD DRAWINGS

SDD NUMBER	TITLE
8A5-9b & c	INLET COVERS
8A5-9d	INLET AND MANHOLE COVERS
8A7-3	CATCH BASINS, TYPES 3 AND 5
8B6-3	MANHOLES, TYPE 1
8B7-3	MANHOLES, TYPE 2 AND 3
8C1-5	INLETS, TYPES 1, 2 AND 3
8C5-2	INLETS, TYPES 8, 9, 10 AND 11
8D1-11	CONCRETE CURB, CONCRETE CURB AND GUTTER AND PAVEMENT TIES
8D4-3	CONCRETE SURFACE DRAIN & ASPHALTIC FLUME
8D15-1a	EDGEDRAIN OUTLET DETAILS
8D15-1c	EDGEDRAIN AND CRUSHED AGGREGATE BASE COURSE, OPEN GRADED, NO.2 DETAILS
8E4-2	SOD OR MASONRY AND SOD DITCH CHECKS
8E5-1	SODDED BACKSLOPE FLUME AND INTERCEPTING EMBANKMENT
8E8-2	TYPICAL INSTALLATIONS OF EROSION BALES
8E9-4	SILT FENCE
8F1-11	APRON ENDWALLS FOR CULVERT PIPE
8F2-1	APRON ENDWALLS FOR PIPE ARCH AND ELLIPTICAL PIPE
8F4-5	JOINT TIES FOR CONCRETE PIPE
8F5-1	CLASS "B" BEDDING FOR CULVERT PIPE AND STORM SEWER
8F6-3	REINFORCED CONCRETE APRON ENDWALL FOR PIPE UNDERDRAIN
8F7-2	STEEL APRON ENDWALL FOR CULVERT PIPE AND PIPE ARCH SLOPED SECTION
8F8-1	** SLOPED STEEL ENDWALLS FOR CULVERT PIPE AND PIPE ARCH CROSS DRAINS ** FOR ADAPTER SLEEVE DETAIL ONLY
9A1-9b	AT-GRADE SIDE ROAD INTERSECTIONS, TYPE "A" AND PASSING LANES
12A3-4	NAME PLATE-STRUCTURES
15A2-4	DELINEATOR POSTS, DELINEATOR BRACKET AND DELINEATORS
15C2-2	BARRICADES AND TRAFFIC CONTROL FOR ROAD CLOSURES
15C8-6a	PAVEMENT MARKING (MAINLINE)
15C8-6b	PAVEMENT MARKING (INTERSECTIONS)
15C12-2	TRAFFIC CONTROL FOR LANE CLOSURE (SUITABLE FOR MOVING OPERATIONS)
16A1-5	LANDMARK REFERENCE MONUMENTS AND COVERS

LEVELS ON - 1,2,3,4,5,6,7,8,9,10,11,12,13,14,15,16,17,18,19,20,21,22,23,24,25,26,27,28,29,30,31,32,33,34,35,36,37,38,39,40,41,42,43,44,45,46,47,48,49,50,51,52,53,54,55,56,57,58,59,60,61,62,63

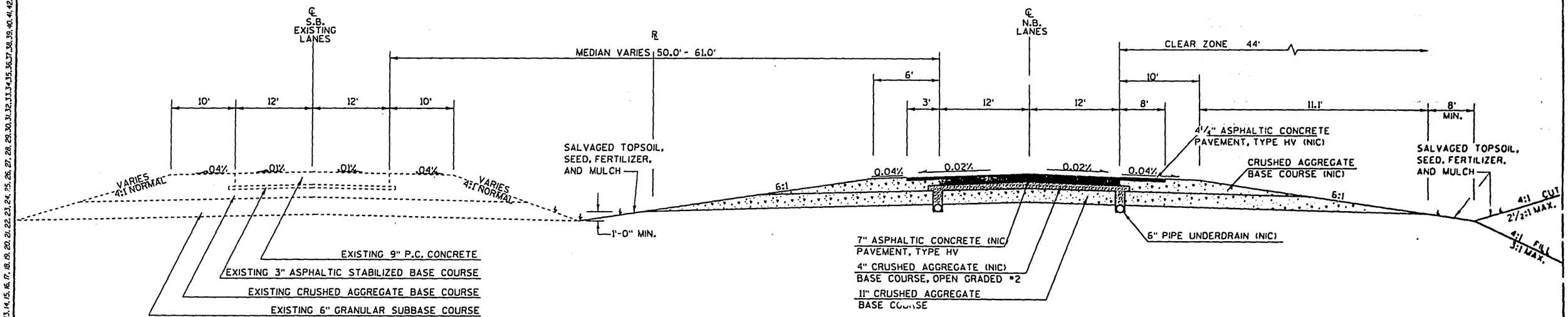
STATE PROJECT NUMBER	SHEET NO.
2240-07-70	2.1
TYPICAL SECTIONS (GRADING)	
STH-36	RACINE COUNTY



** SEE OFFSET CHART

** SEE OFFSET CHART

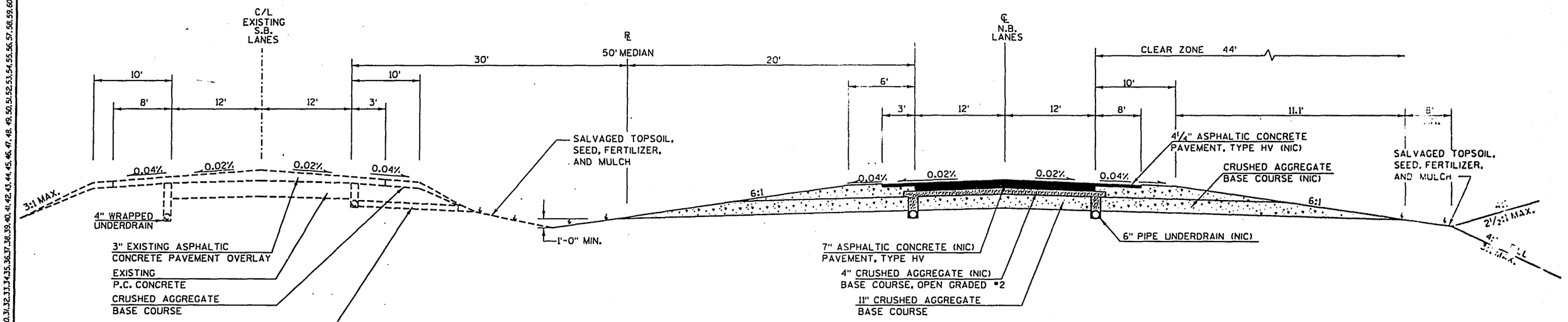
S.T.H.36 (MAINLINE)
TYPICAL SECTION
(BURLINGTON TO C.T.H. W)
STA. 89+00 TO STA. 162+00



S.T.H.36 (MAINLINE)
TYPICAL SECTION
(C.T.H. W TO S.T.H. 20)
STA. 162+00 TO STA. 343+00

LEVELS ON - 1,2,3,4,5,6,7,8,9,10,11,12,13,14,15,16,17,18,19,20,21,22,23,24,25,26,27,28,29,30,31,32,33,34,35,36,37,38,39,40,41,42,43,44,45,46,47,48,49,50,51,52,53,54,55,56,57,58,59,60,61,62,63

STATE PROJECT NUMBER	SHEET NO.
2240-07-[illegible]	2.2
TYPICAL SECTIONS (STAGING)	
STH-36	RACINE COUNTY



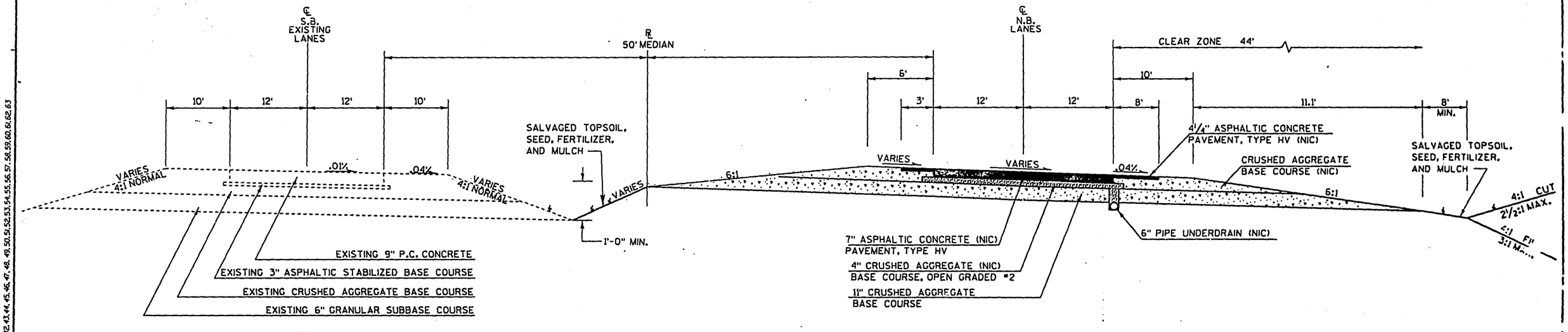
S.T.H.36 (MAINLINE)
TYPICAL SECTION
(S.T.H. 20 TO NORTH OF KRAMER ROAD)
STA. 343+00 TO STA. 485+00

LEVELS ON - 1,2,3,4,5,6,7,8,9,10,11,12,13,14,15,16,17,18,19,20,21,22,23,24,25,26,27,28,29,30,31,32,33,34,35,36,37,38,39,40,41,42,43,44,45,46,47,48,49,50,51,52,53,54,55,56,57,58,59,60,61,62,63

STATE PROJECT NUMBER	SHEET NO.
2240-07-70	2.3

TYPICAL SECTION
(GRADING)

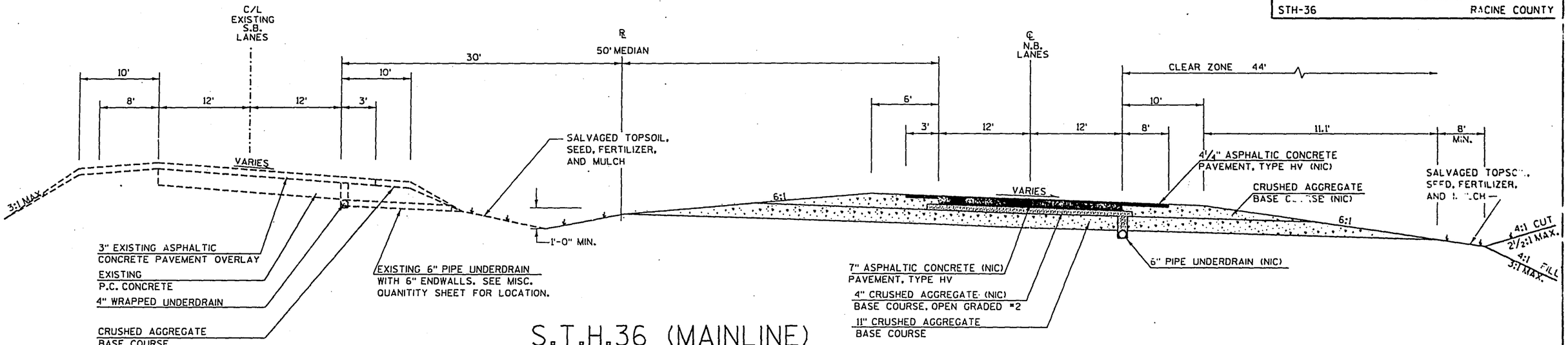
STH-36 RACINE COUNTY



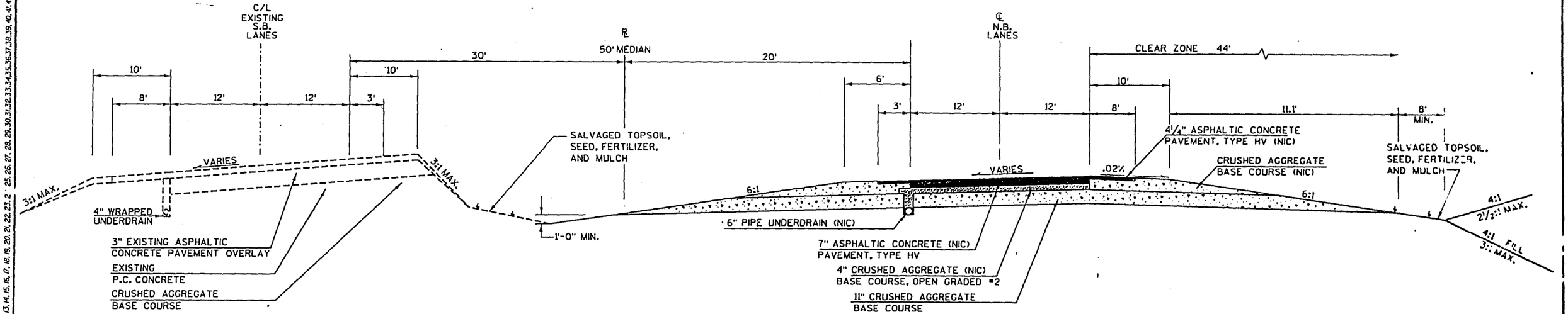
S.T.H.36 (MAINLINE NB.)
SUPERELEVATED TYPICAL SECTION
(C.T.H. W TO S.T.H. 20)
PC. 186+16.14 TO PT. 221+80.90
PC. 295+90.92 TO STA. 343+00

LEVELS ON • 1,2,3,4,5,6,7,8,9,10,11,12,13,14,15,16,17,18,19,20,21,22,23,24,25,26,27,28,29,30,31,32,33,34,35,36,37,38,39,40,41,42,43,44,45,46,47,48,49,50,51,52,53,54,55,56,57,58,59,60,61,62,63

STATE PROJECT NUMBER	SHEET NO.
2240-07-70	2.4
TYPICAL SECTIONS (GRADING)	
STH-36	RACINE COUNTY



S.T.H.36 (MAINLINE)
SUPERELEVATED TYPICAL SECTION
STA. 343+00 TO STA. 355+92.11
PC. 446+69.60 TO PT. 478+93.62



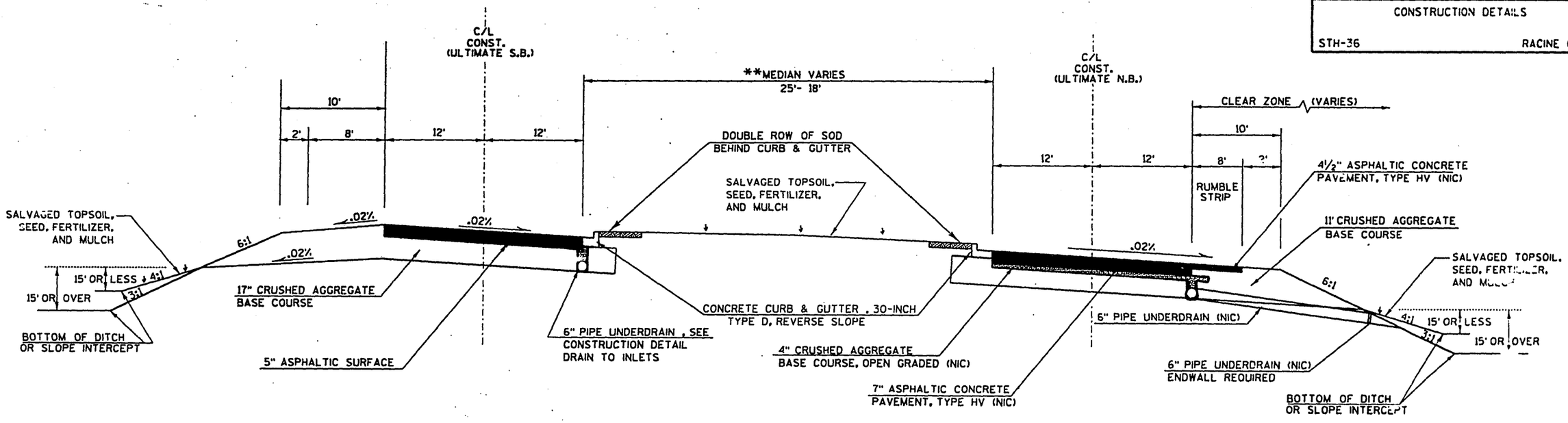
S.T.H.36 (MAINLINE)
TYPICAL SUPERELEVATED SECTION
PC. 377+34.92 TO PT. 388+85.81

LEVELS ON - 1,2,3,4,5,6,7,8,9,10,11,12,13,14,15,16,17,18,19,20,21,22,23,24,25,26,27,28,29,30,31,32,33,34,35,36,37,38,39,40,41,42,43,44,45,46,47,48,49,50,51,52,53,54,55,56,57,58,59,60,61,62,63

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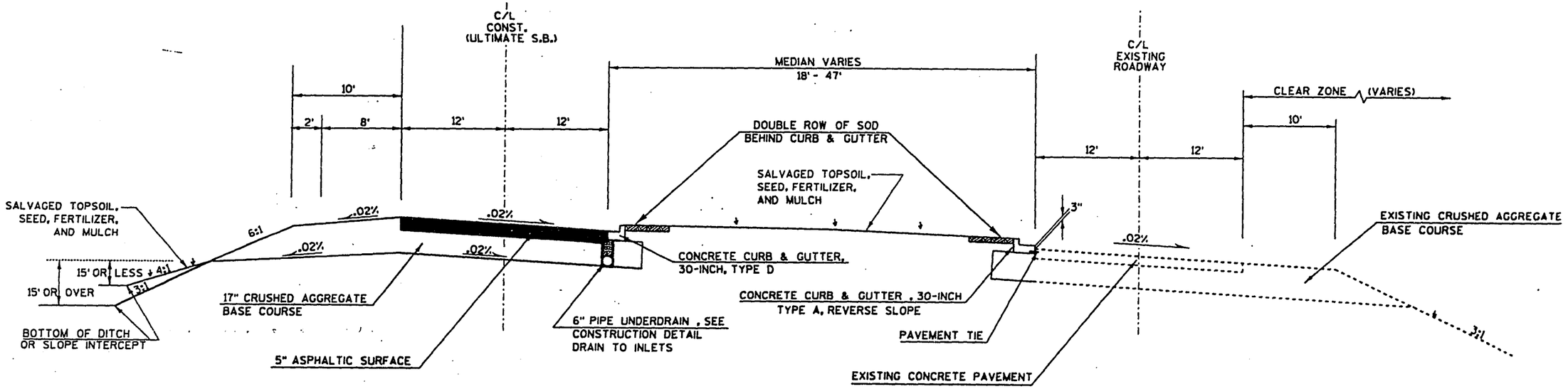
* SDOT/CADDS SHEET 42

STATE PROJECT NUMBER	SHEET NO.
2240-07-??	2.5
CONSTRUCTION DETAILS	
STH-36	RACINE COUNTY



** SEE OFFSET CHART

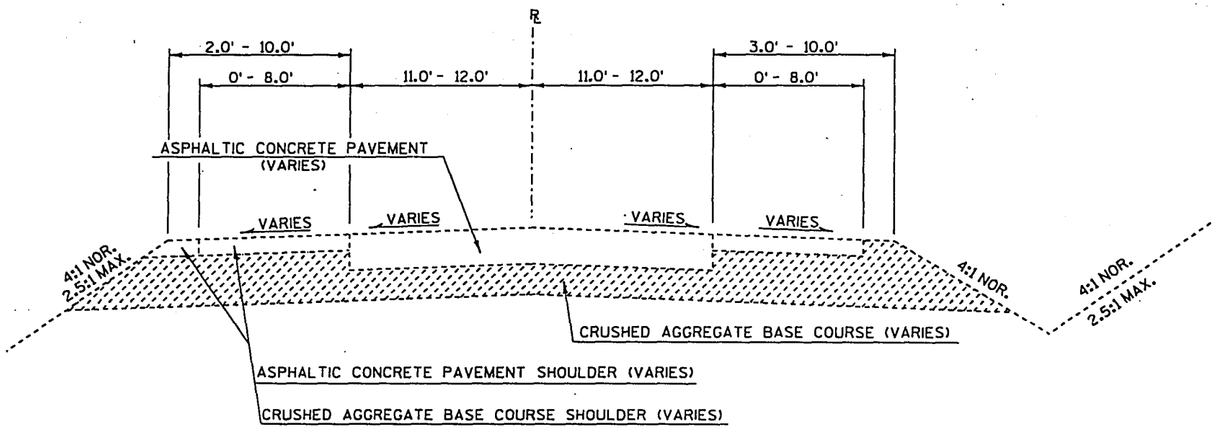
TRANSITION SECTION
STA. 89+00 TO STA. 93+00



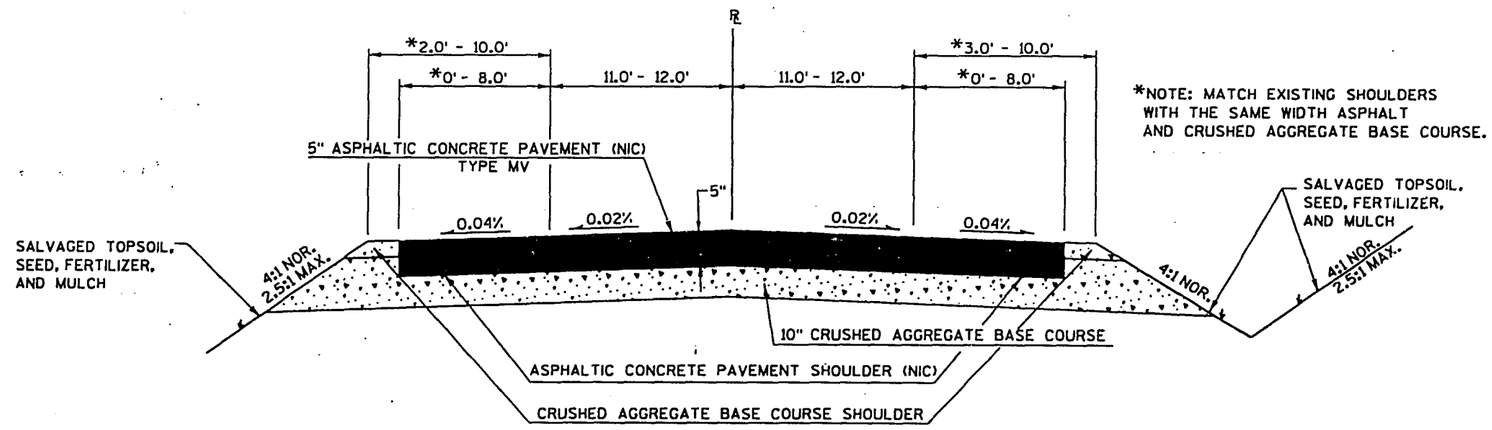
TRANSITION SECTION
STA. 93+00 TO 101+50

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STATE PROJECT NUMBER	SHEET NO.
2240-07-70	2.6
TYPICAL SECTIONS GRADING	
STH-36	RACINE COU

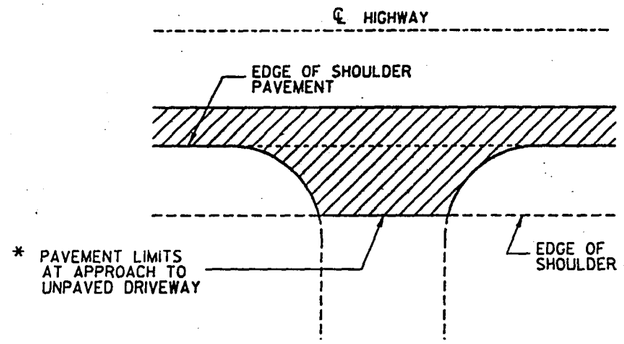


EXISTING TYPICAL SECTION SIDEROADS



TYPICAL SECTION SIDEROADS

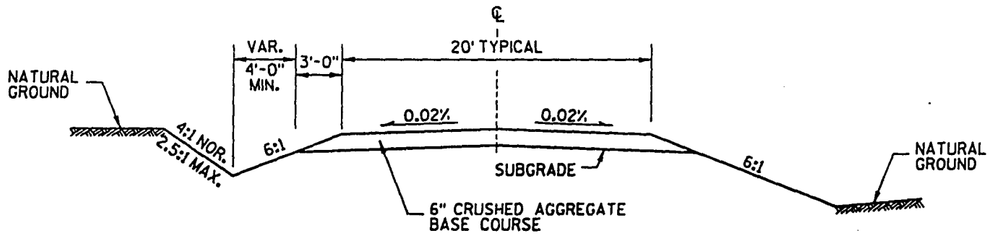
LEVELS ON • 1,2,3,4,5,6,7,8,9,10,11,12,13,14,15,16,17,18,19,20,21,22,23,24,25,26,27,28,29,30,31,32,33,34,35,36,37,38,39,40,41,42,43,44,45,46,47,48,49,50,51,52,53,54,55,56,57,58,59,60,61,62,63



* WHERE DRIVEWAY IS PAVED, APPROACH PAVEMENT SHOULD BE EXTENDED TO MATCH DRIVEWAY PAVEMENT.

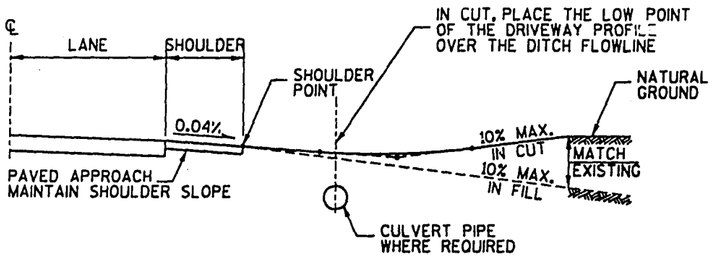
PLAN VIEW
(PAVED SHOULDER ON HIGHWAY)

RURAL DRIVEWAY INTERSECTION DETAIL

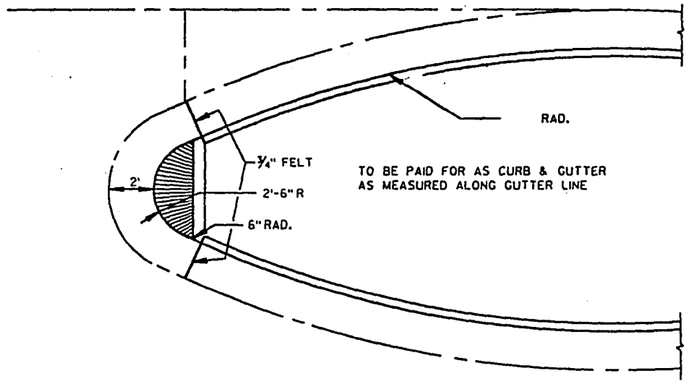


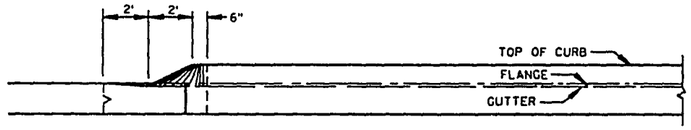
IN CUT IN FILL

TYPICAL CROSS SECTION FOR PRIVATE DRIVE OR FIELD ENTRANCE



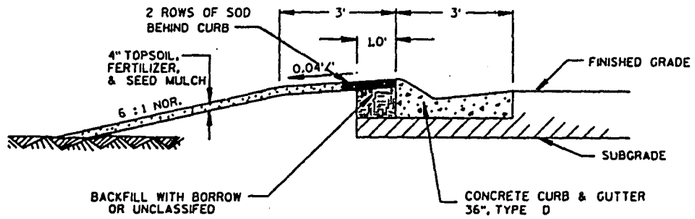
TYPICAL DRIVEWAY PROFILES



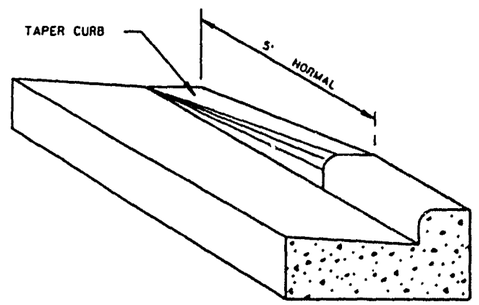


DETAIL OF ISLAND NOSE

(TO BE USED FOR ALL ISLAND NOSE RADII)

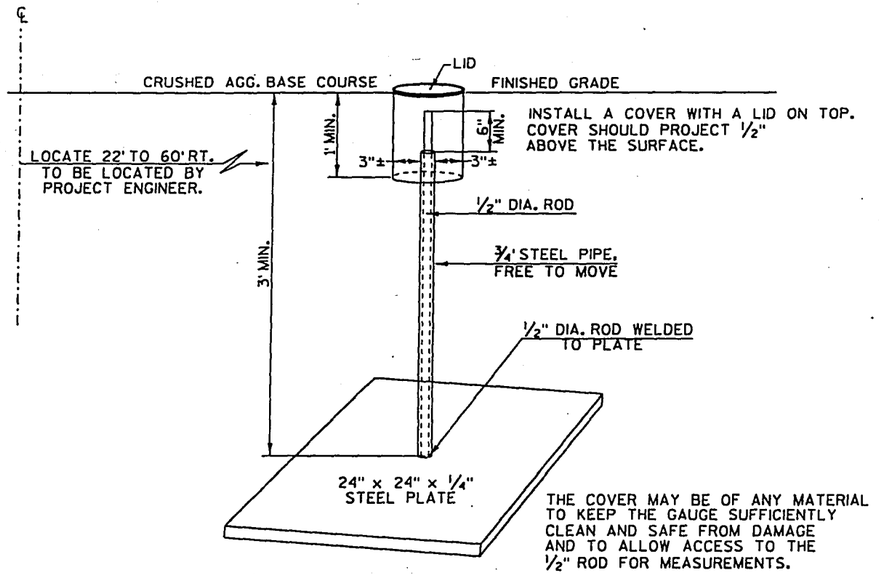


BERM DETAIL BEHIND 36" MOUNTABLE CURB & GUTTER

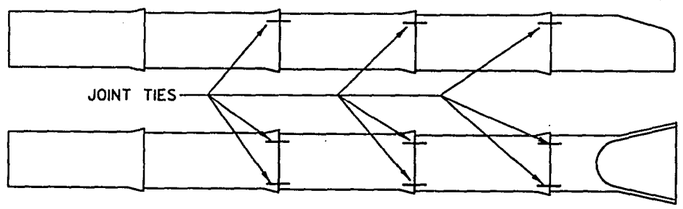


DETAIL OF CURB & GUTTER TERMINI

LEVELS ON • 1,2,3,4,5,6,7,8,9,10,11,12,13,14,15,16,17,18,19,20,21,22,23,24,25,26,27,28,29,30,31,32,33,34,35,36,37,38,39,40,41,42,43,44,45,46,47,48,49,50,51,52,53,54,55,56,57,58,59,60,61,62,63

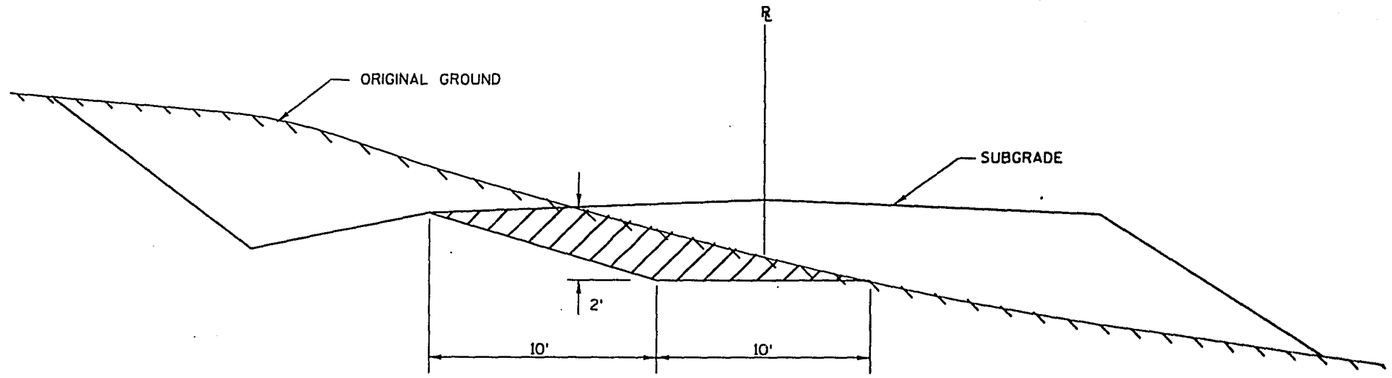


SETTLEMENT GAUGE



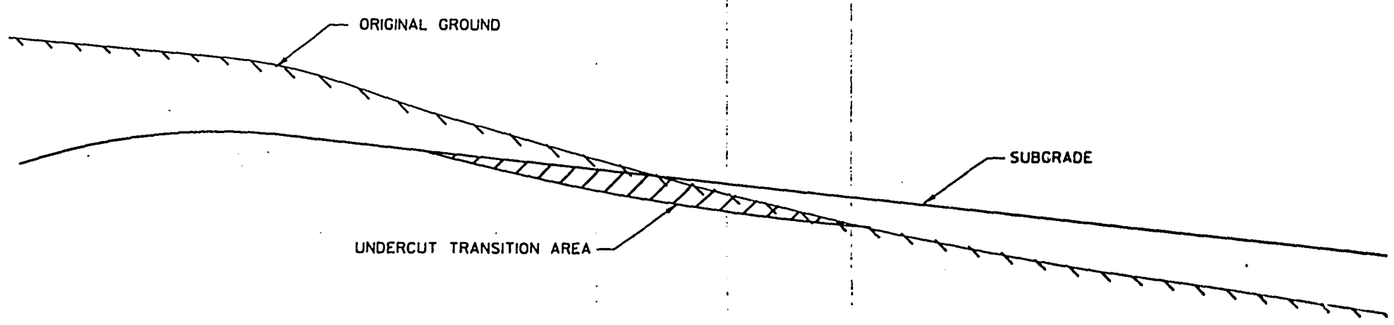
JOINT TIES FOR CONCRETE PIPE AT ENDWALLS DETAIL
REQUIRED AT LAST TWO SECTIONS OF PIPE AND ENDWALL

SIDE HILL CUT/FILL TRANSITION AREA



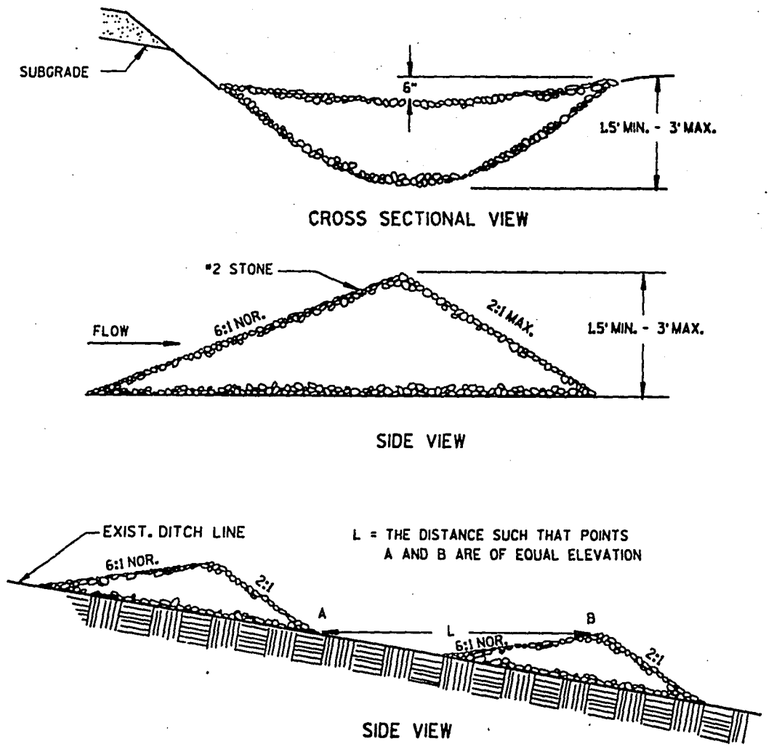
BACKFILL WITH SOIL SIMILAR TO ADJACENT SUBGRADE

CUT/FILL LONGITUDINAL TRANSITION AREA

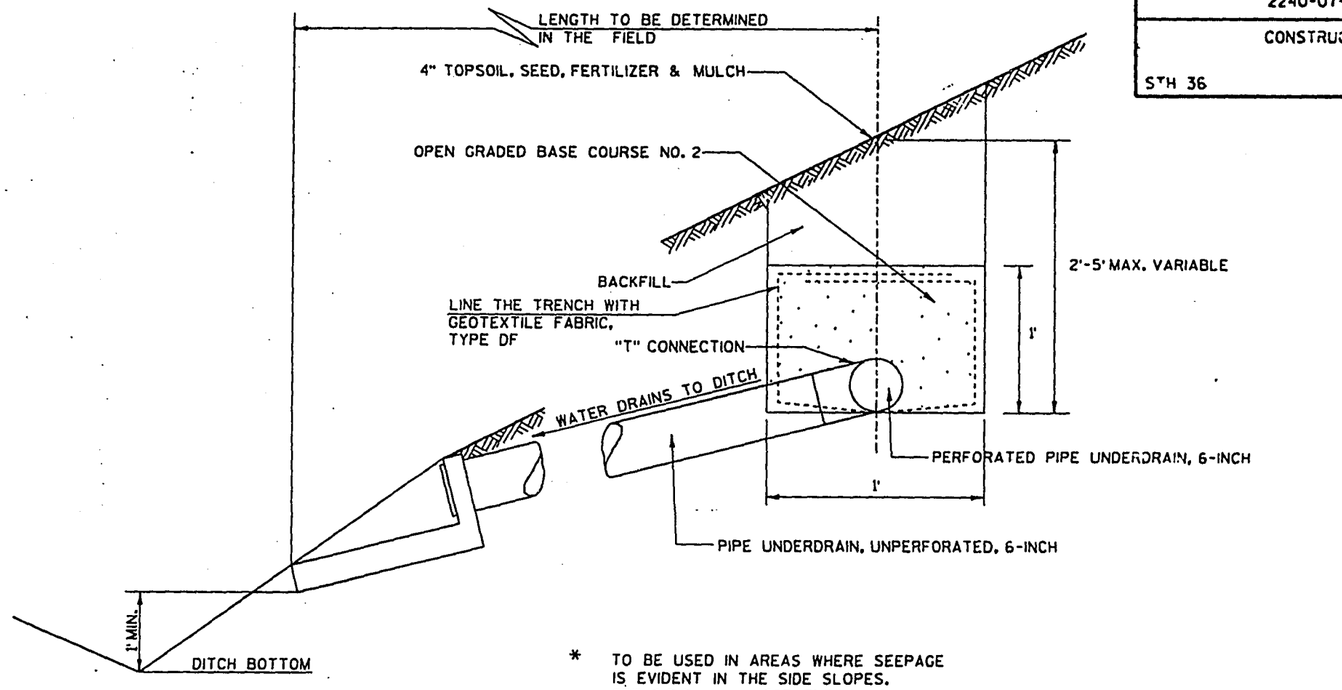


TYPICAL E.B.S. TRANSITION AREA

LEVELS ON - 1,2,3,4,5,6,7,8,9,10,11,12,13,14,15,16,17,18,19,20,21,22,23,24,25,26,27,28,29,30,31,32,33,34,35,36,37,38,39,40,41,42,43,44,45,46,47,48,49,50,51,52,53,54,55,56,57,58,59,60,61,62,63



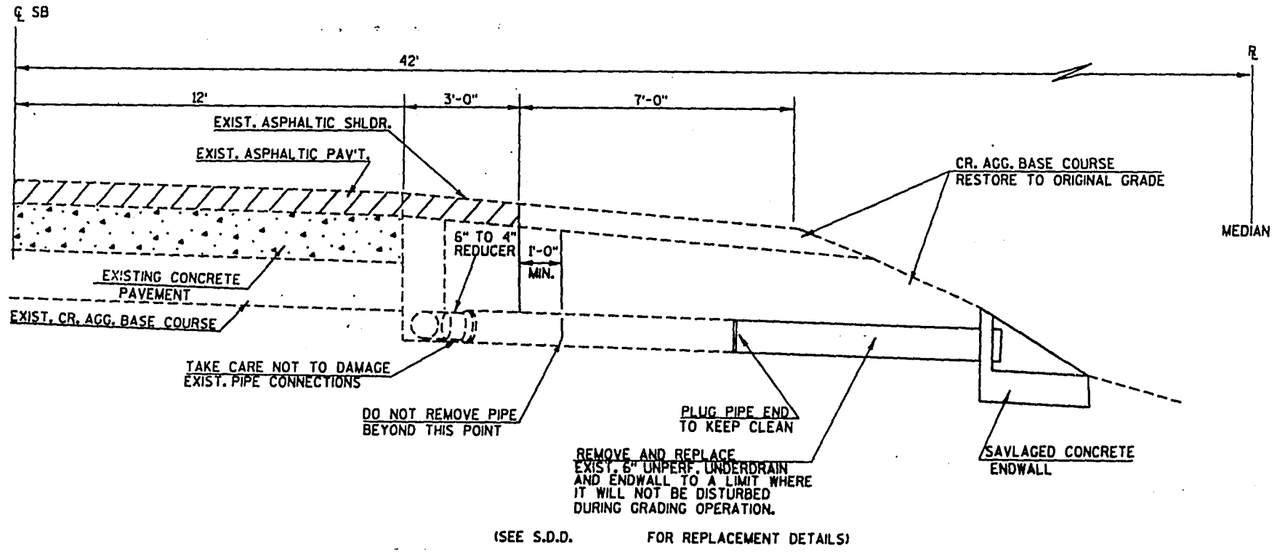
TEMPORARY STONE DITCH CHECK



* TO BE USED IN AREAS WHERE SEEPAGE IS EVIDENT IN THE SIDE SLOPES. SEE S.D.D. FOR ENDWALLS

DRAINAGE DETAIL FOR THE BACKSLOPE

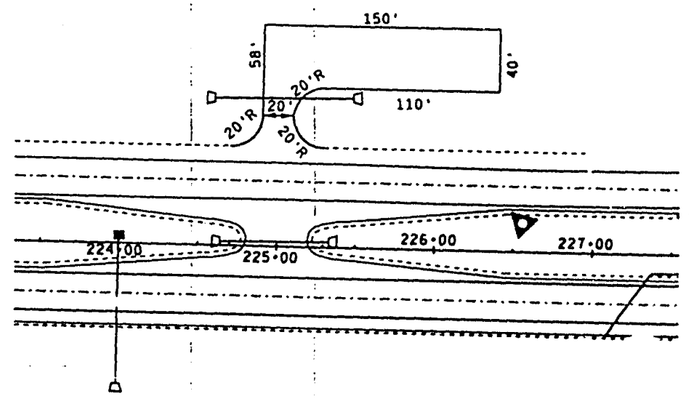
* APPROXIMATE LOCATIONS IDENTIFIED FROM SOIL INVESTIGATION.



(SEE S.D.D. FOR REPLACEMENT DETAILS)

REMOVING AND REPLACING EXISTING PIPE UNDERDRAIN

PROJ. 2240-07-70 STA. 343+00 SB TO 485+00 SB
PROJ. 2240-07-76 STA. 485+00 SB TO 772+00 SB

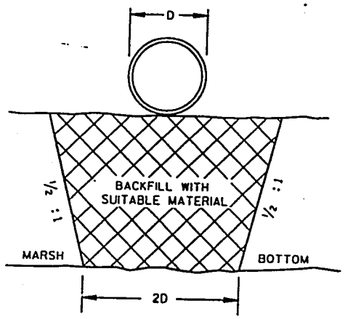


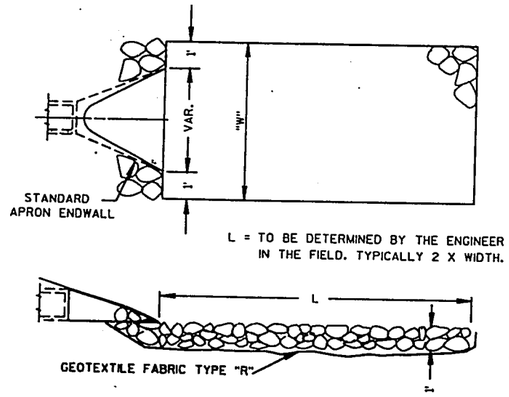
8-INCH CRUSHED AGGREGATE BASE COURSE PARKING LOT

STA. 225+00

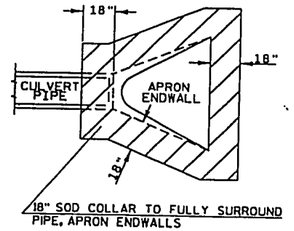
LEVELS ON - 1,2,3,4,5,6,7,8,9,10,11,12,13,14,15,16,17,18,19,20,21,22,23,24,25,26,27,28,29,30,31,32,33,34,35,36,37,38,39,40,41,42,43,44,45,46,47,48,49,50,51,52,53,54,55,56,57,58,59,60,61,62,63

STATE PROJECT NUMBER	SHEET NO.
2240-07-70	2,10
CONSTRUCTION DETAILS	
S.T.H. 36	RACINE CO.



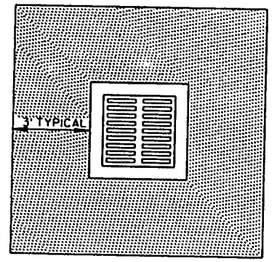


RIPRAP DISCHARGE APRON

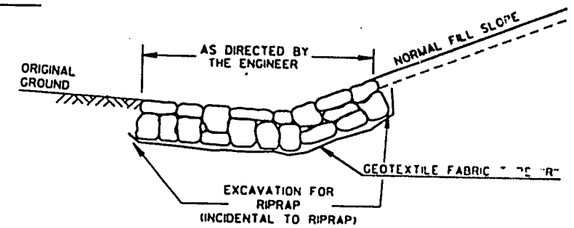


NOTE: SOD COLLAR IS NOT REQUIRED ON STORM SEWER OUTLET.

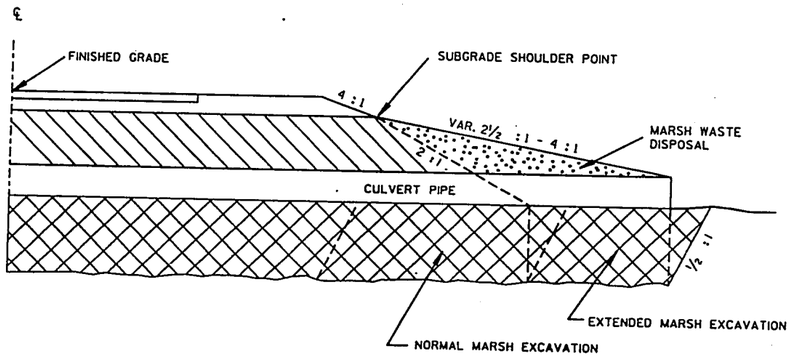
SOD COLLAR DETAIL



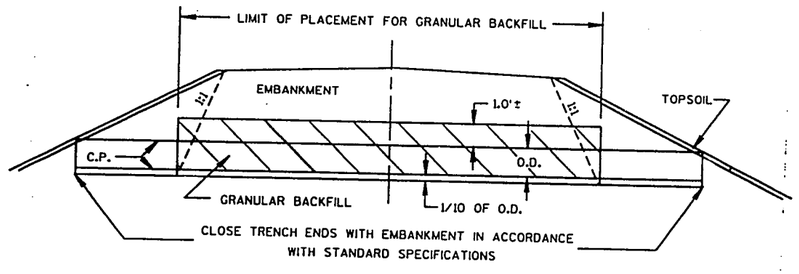
SOD AT INLETS



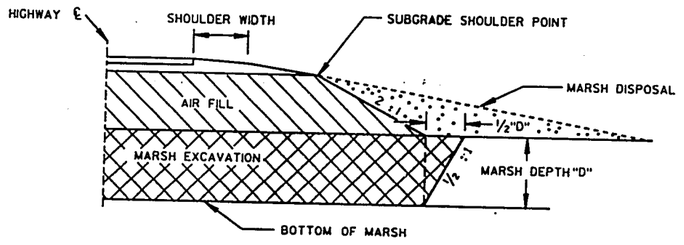
DETAIL FOR RIPRAP IN DITCHES



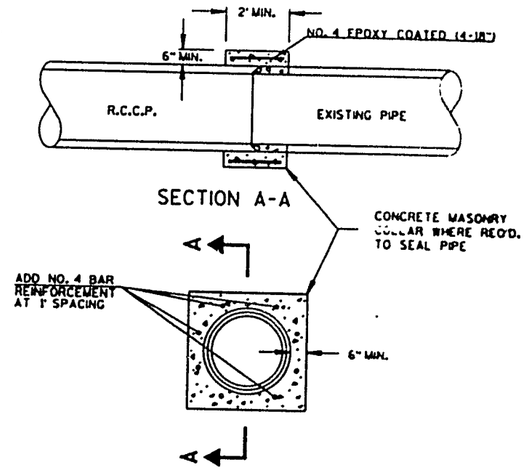
MARSH EXCAVATION AT CULVERTS



CULVERT BACKFILL DETAIL



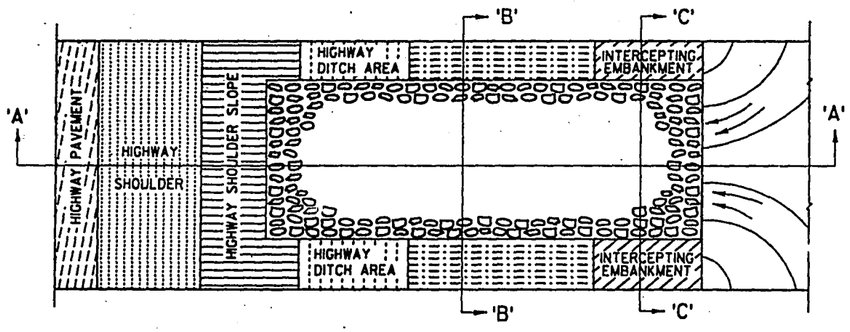
TYPICAL MARSH EXCAVATION



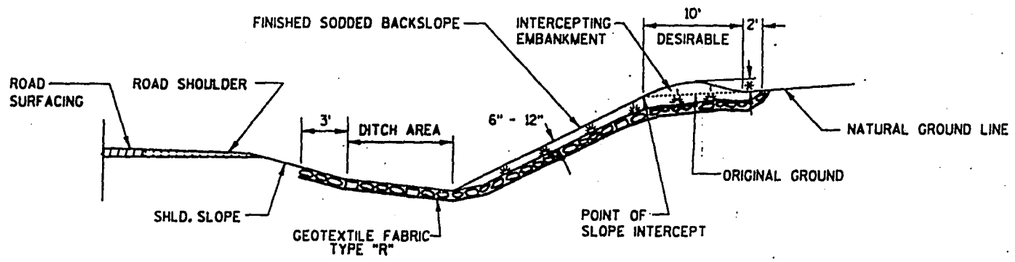
CONCRETE COLLAR

LEVELS ON - 1,2,3,4,5,6,7,8,9,10,11,12,13,14,15,16,17,18,19,20,21,22,23,24,25,26,27,28,29,30,31,32,33,34,35,36,37,38,39,40,41,42,43,44,45,46,47,48,49,50,51,52,53,54,55,56,57,58,59,60,61,62,63

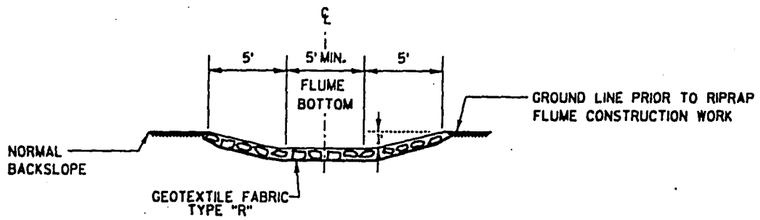
FILE NAME: HDGN:D2 2240073GS:CDLDGN



PLAN VIEW OF RIPRAP BACKSLOPE FLUME

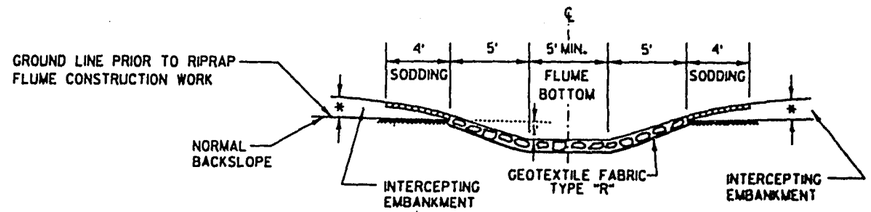


SECTION 'A'-'A'



SECTION 'B'-'B'

* 1' MIN. MAY BE ADJUSTED AT THE OPTION OF THE ENGINEER.



SECTION 'C'-'C'

RIPRAP BACKSLOPE FLUME & INTERCEPTING EMBANKMENT

GENERAL NOTES

DETAILS OF CONSTRUCTION NOT SHOWN ON THIS DRAWING SHALL CONFORM TO THE PERTINENT REQUIREMENTS OF THE STANDARD SPECIFICATIONS.

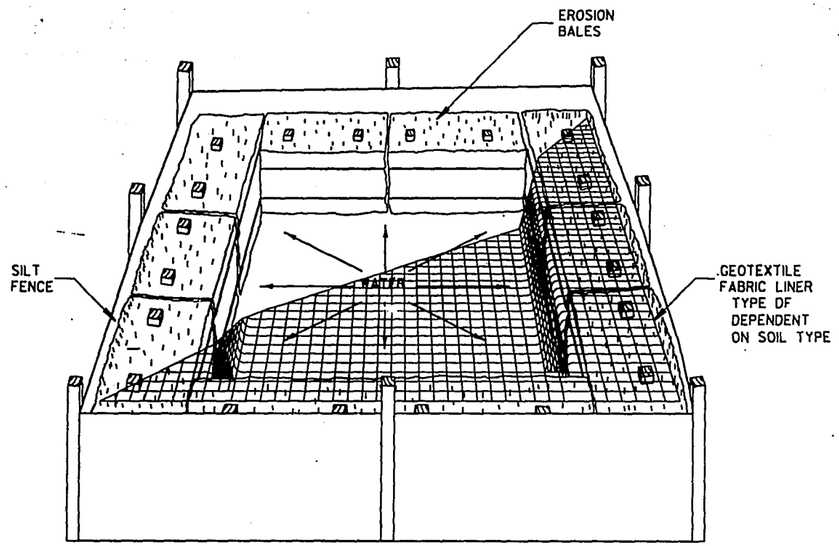
GRADING AND SHAPING INTERCEPTING EMBANKMENT WILL BE MEASURED AND PAID FOR IN ACCORDANCE WITH THE STANDARD SPECIFICATIONS FOR "ROADWAY AND DRAINAGE EXCAVATION."

SOD STRIPS MAY BE LAID EITHER TRANSVERSELY OR LONGITUDINALLY TO THE DIRECTION OF THE WATER FLOW.

RIPRAP SHALL BE PLACED A MINIMUM OF ONE FOOT THICK.

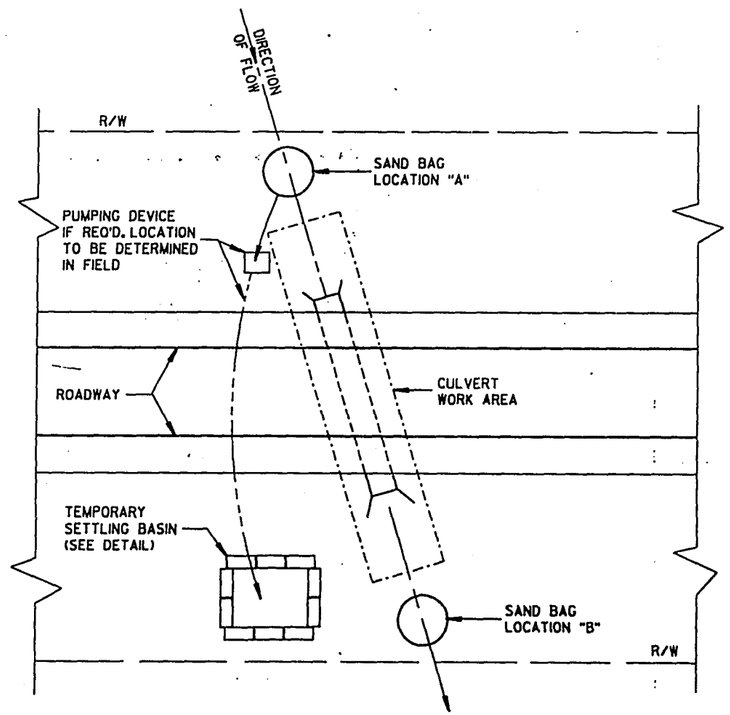
DIMENSIONS SHOWN MAY BE ADJUSTED AT THE OPTION OF THE ENGINEER TO FIT LOCAL CONDITIONS.

LEVELS ON - 1,2,3,4,5,6,7,8,9,10,11,12,13,14,15,16,17,18,19,20,21,22,23,24,25,26,27,28,29,30,31,32,33,34,35,36,37,38,39,40,41,42,43,44,45,46,47,48,49,50,51,52,53,54,55,56,57,58,59,60,61,62,63

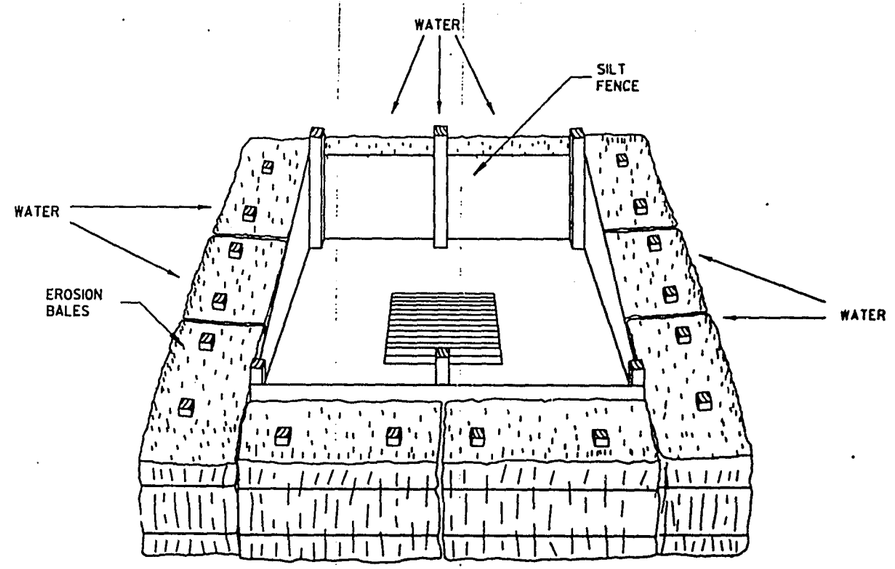


TEMPORARY DEWATERING STRUCTURE

LOCATION TO BE DETERMINED BY THE ENGINEER IN THE FIELD



PLAN VIEW

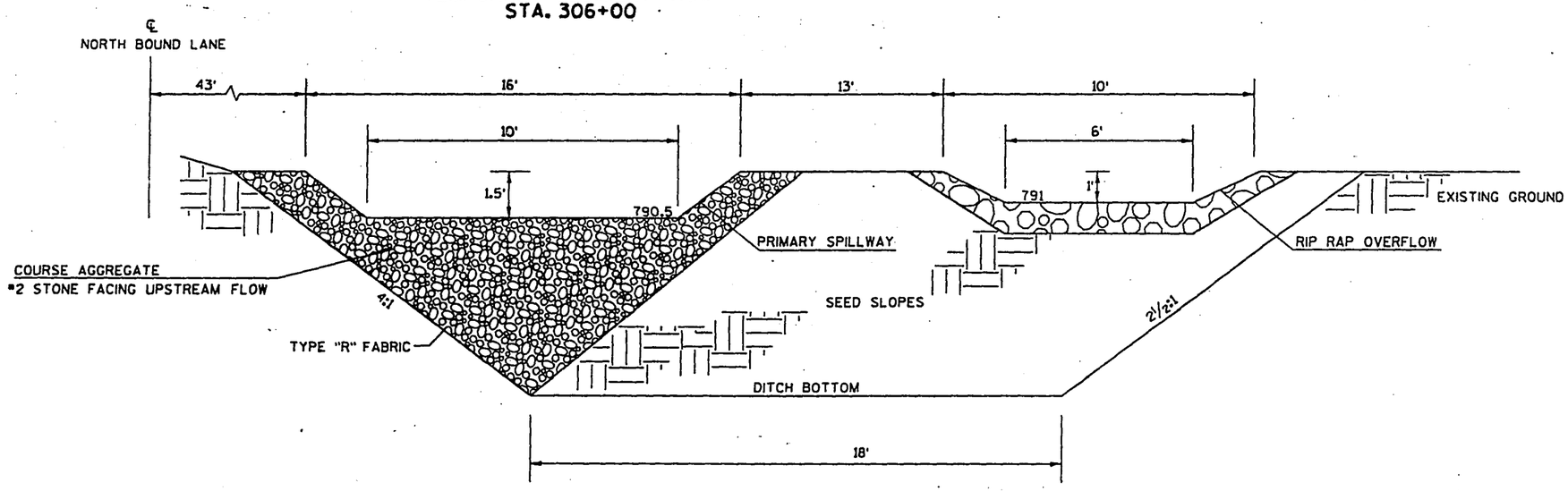


INLET PROTECTION

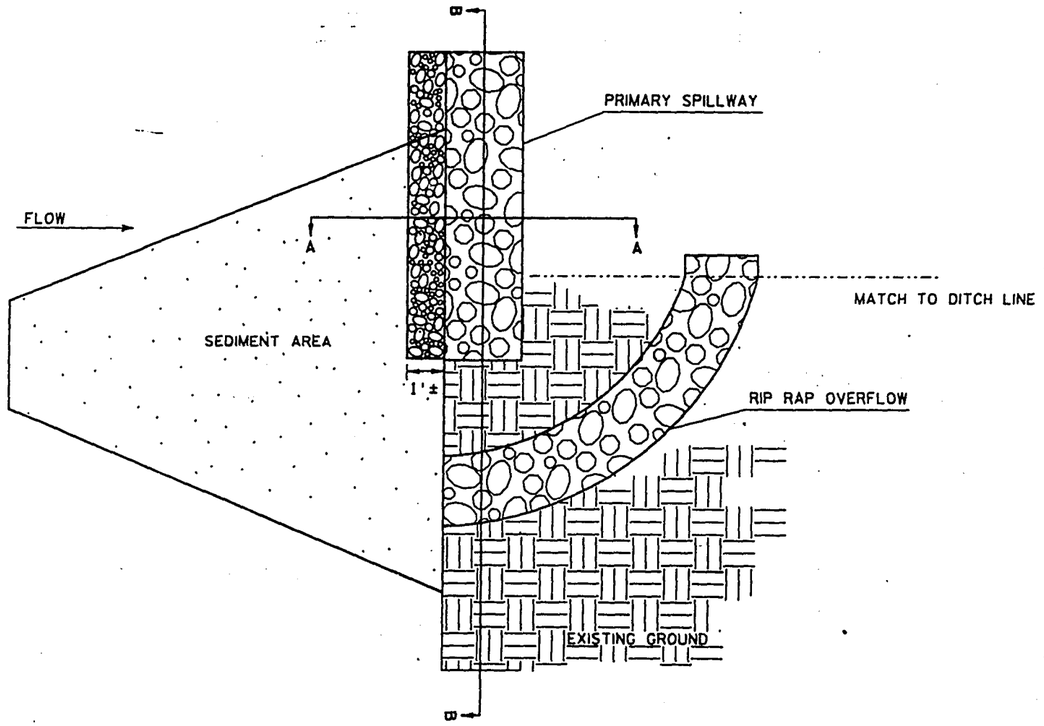
LEVELS ON - 1,2,3,4,5,6,7,8,9,10,11,12,13,14,15,16,17,18,19,20,21,22,23,24,25,26,27,28,29,30,31,32,33,34,35,36,37,38,39,40,41,42,43,44,45,46,47,48,49,50,51,52,53,54,55,56,57,58,59,60,61,62,63

STATE PROJECT NUMBER	SHEET NO.
2240-07-70	2.13
CONSTRUCTION DETAILS	
S.T.H. 36	RACINE CO.

TEMPORARY SEDIMENT TRAP
STA. 306+00



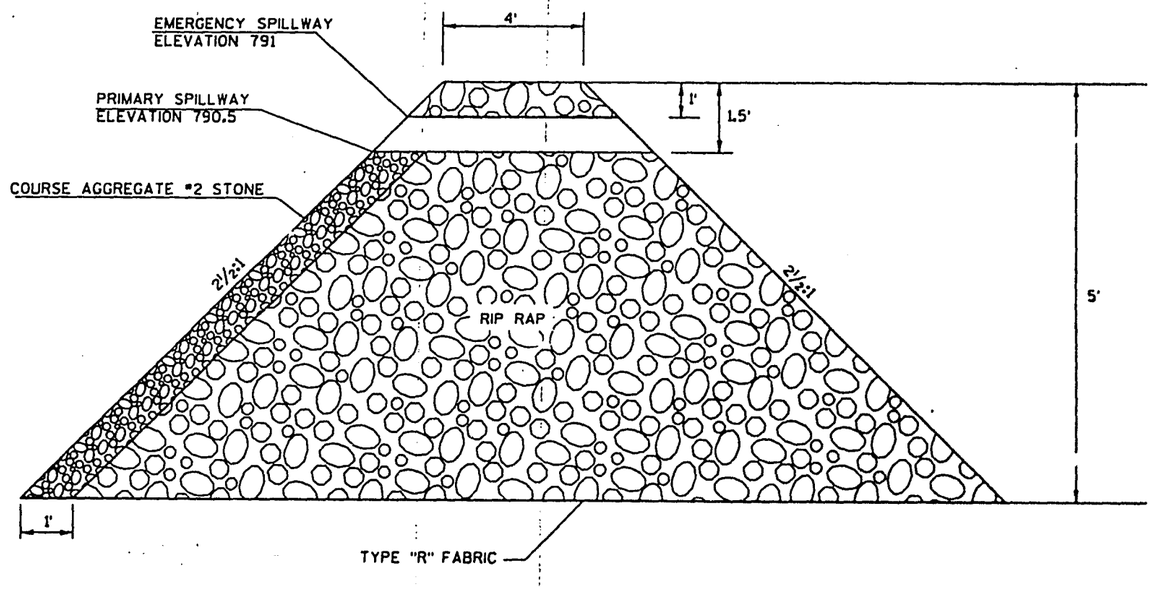
SECTION B-B



LEGEND

- COMPACTED SOIL
- COURSE AGGREGATE #2 STONE
- RIP RAP
- ---------- TYPE "R" FABRIC

NOTE: THE 1 LUMP SUM BID ITEM SHALL CONSIST OF THE GRADING NECESSARY TO CONSTRUCT, MAINTAIN AND REMOVE THE TRAP. ALL OTHER ITEMS SHALL BE PAID UNDER THEIR APPROPRIATE BID ITEMS.



SECTION A-A

LEVELS ON - 1,2,3,4,5,6,7,8,9,10,11,12,13,14,15,16,17,18,19,20,21,22,23,24,25,26,27,28,29,30,31,32,33,34,35,36,37,38,39,40,41,42,43,44,45,46,47,48,49,50,51,52,53,54,55,56,57,58,59,60,61,62,63

FILE NAME: HDGN:D2 2240073651:CDPOND

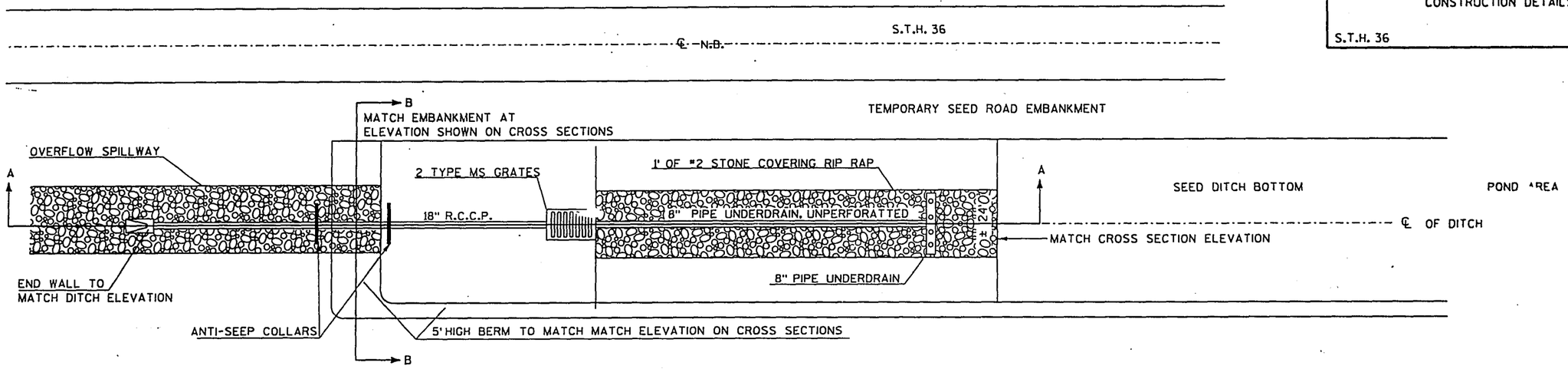
WISDOT/CADDS SHEET 42

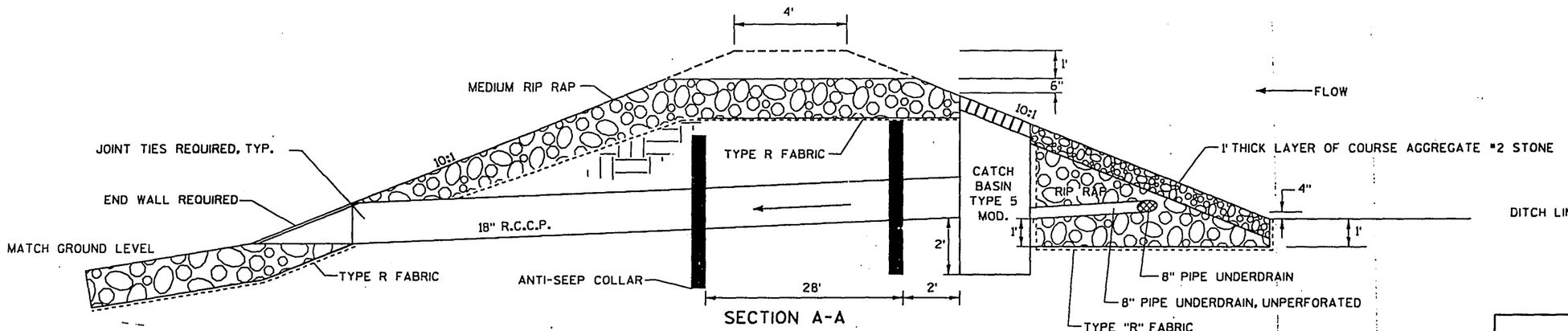
STATE PROJECT NUMBER	SHEET NO.
2240-07-70	2.14

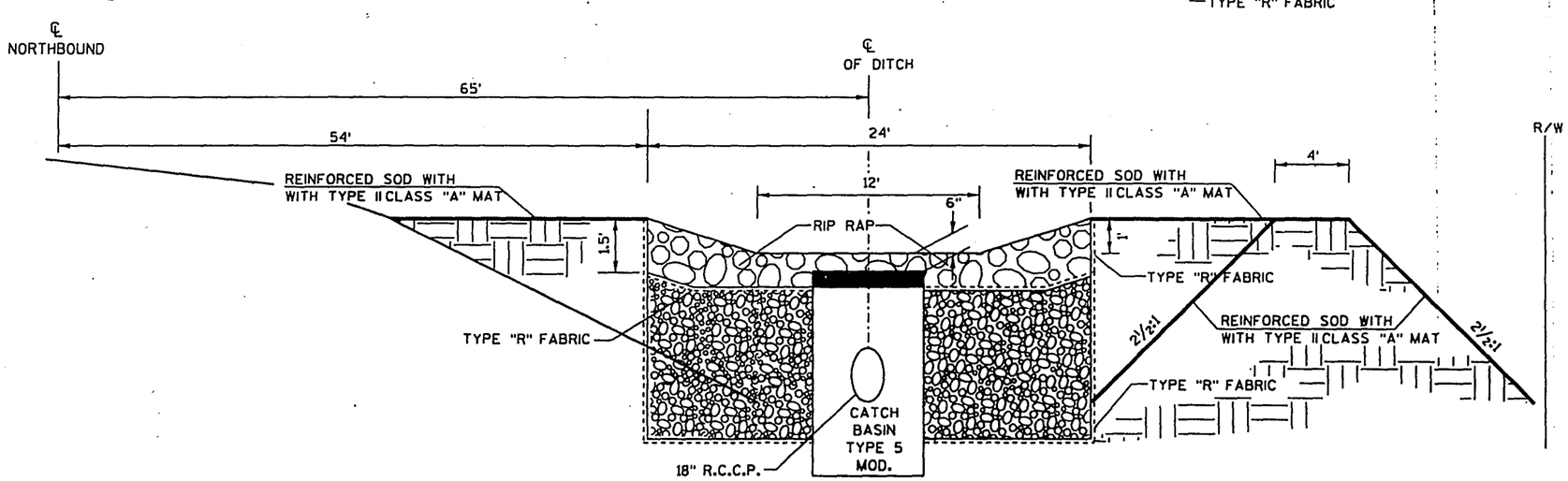
CONSTRUCTION DETAILS

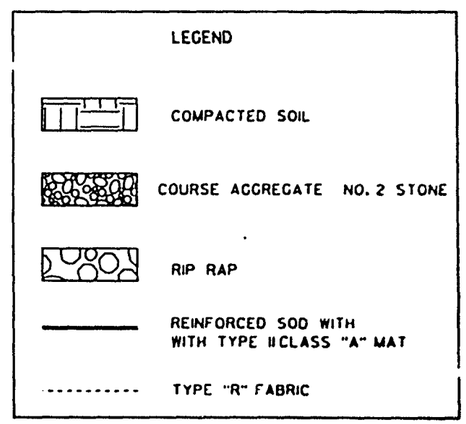
S.T.H. 36 RACINE CO.

PERMANENT DETENTION BASIN NORTHBOUND STATIONS 313+00







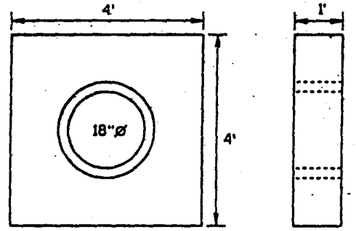


NOTE: THE 1 LUMP SUM BID ITEM SHALL CONSIST OF THE GRADING NECESSARY TO CONSTRUCT AND MAINTAIN THE BASIN THROUGH THE DURATION OF THE CONTRACT. ALL OTHER ITEMS SHALL BE PAID UNDER THEIR APPROPRIATE BID ITEMS.

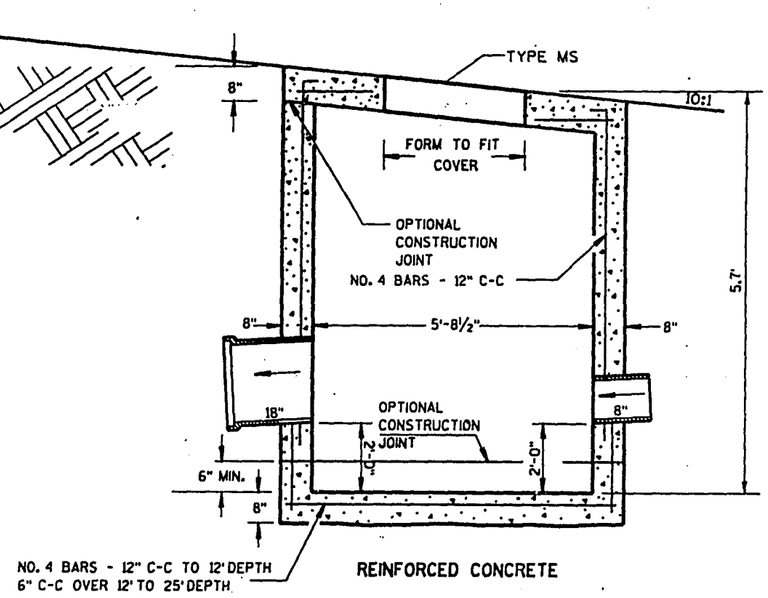
LEVELS ON - 1,2,3,4,5,6,7,8,9,10,11,12,13,14,15,16,17,18,19,20,21,22,23,24,25,26,27,28,29,30,31,32,33,34,35,36,37,38,39,40,41,42,43,44,45,46,47,48,49,50,51,52,53,54,55,56,57,58,59,60,61,62,63

FILE NAME: HDGN:D2 2240073GS:CDPOND

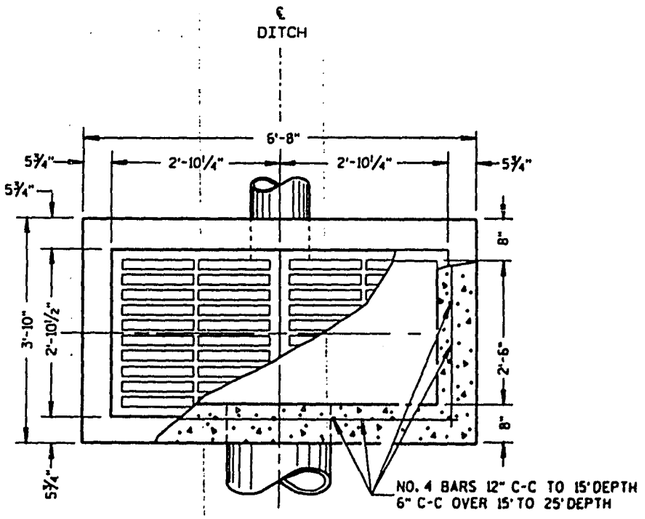
WISDOT/CADDS SHEET 42



CONCRETE ANTI-SEEP COLLAR
(2 REQUIRED)



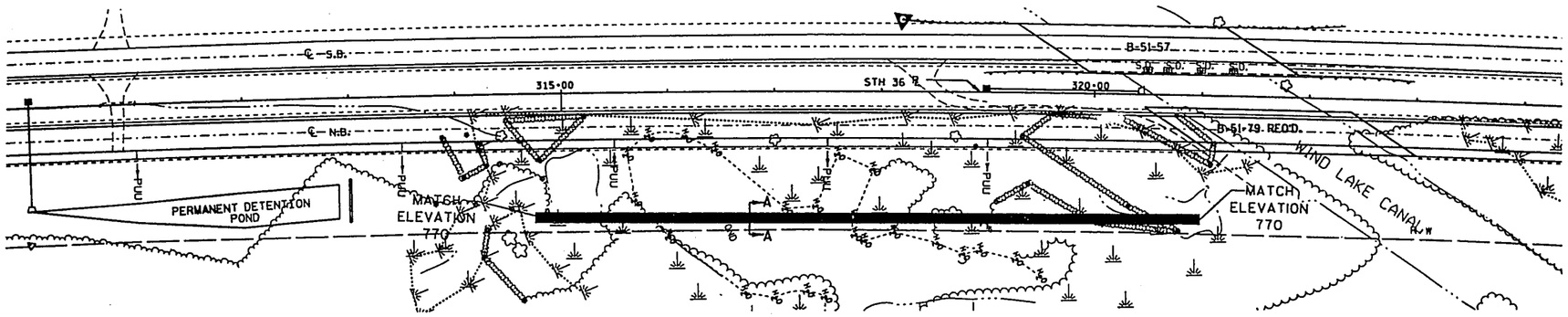
CATCH BASINS TYPE 5 (MODIFIED)
(SEE SDD 8A 7-3 FOR FURTHER INFORMATION)

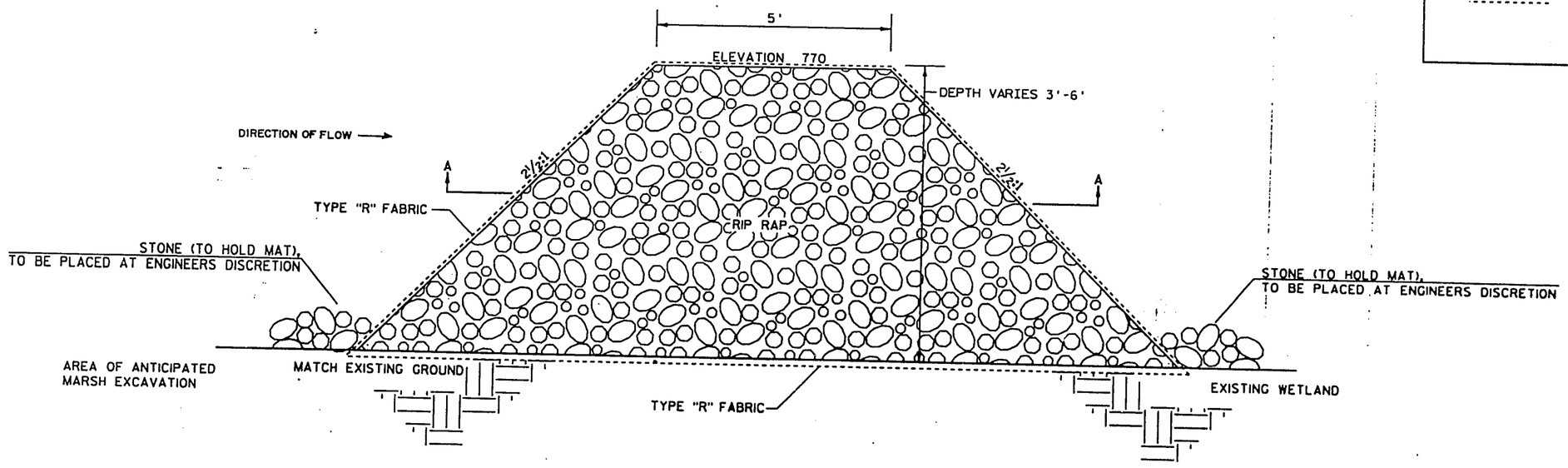


PLAN VIEW

LEVELS ON - 1,2,3,4,5,6,7,8,9,10,11,12,13,14,15,16,17,18,19,20,21,22,23,24,25,26,27,28,29,30,31,32,33,34,35,36,37,38,39,40,41,42,43,44,45,46,47,48,49,50,51,52,53,54,55,56,57,58,59,60,61,62,63

TEMPORARY RIP RAP SILT TRAP





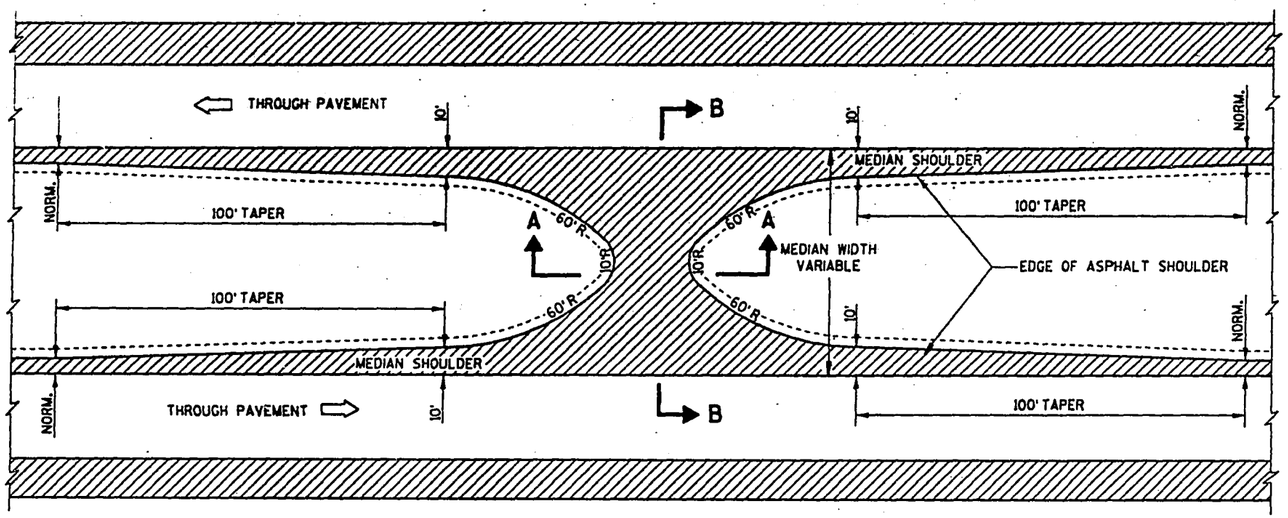
LEGEND

- COMPACTED SOIL
- RIP RAP
- TYPE "R" FABRIC

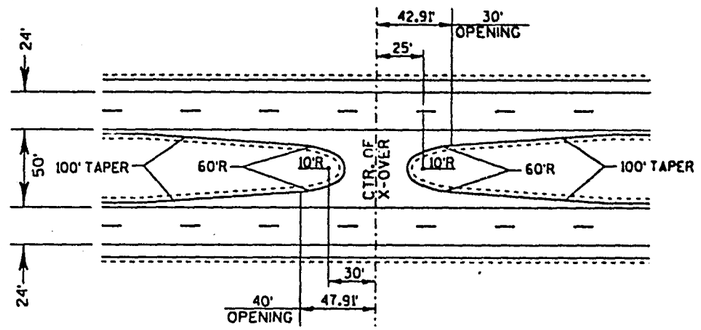
LEVELS ON - 1,2,3,4,5,6,7,8,9,10,11,12,13,14,15,16,17,18,19,20,21,22,23,24,25,26,27,28,29,30,31,32,33,34,35,36,37,38,39,40,41,42,43,44,45,46,47,48,49,50,51,52,53,54,55,56,57,58,59,60,61,62,63

FILE NAME: HDGN:D2 2240073GS:CDPOND

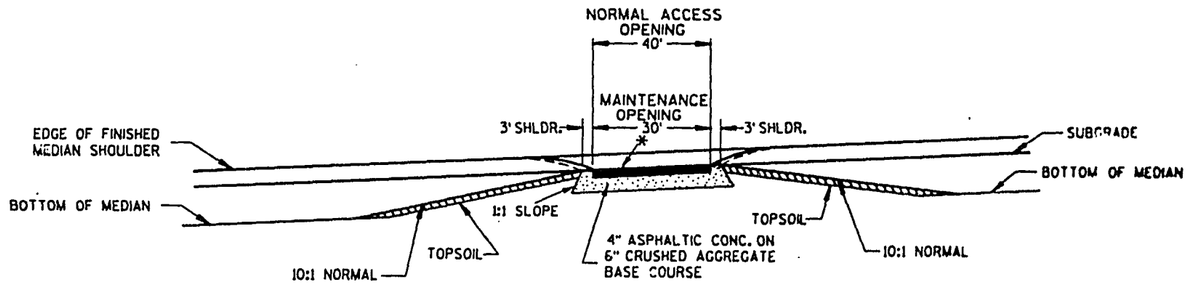
STATE PROJECT NUMBER	SHEET NO.
2240-07-70	2.17
PAVED MEDIAN CROSS-OVER	
STH 36	WALWORTH COUNTY



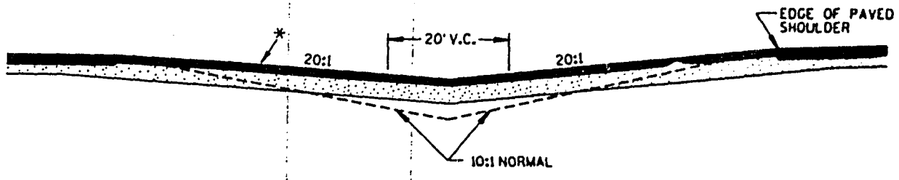
PLAN VIEW



PAVED MEDIAN CROSS-OVER LAYOUT DETAIL

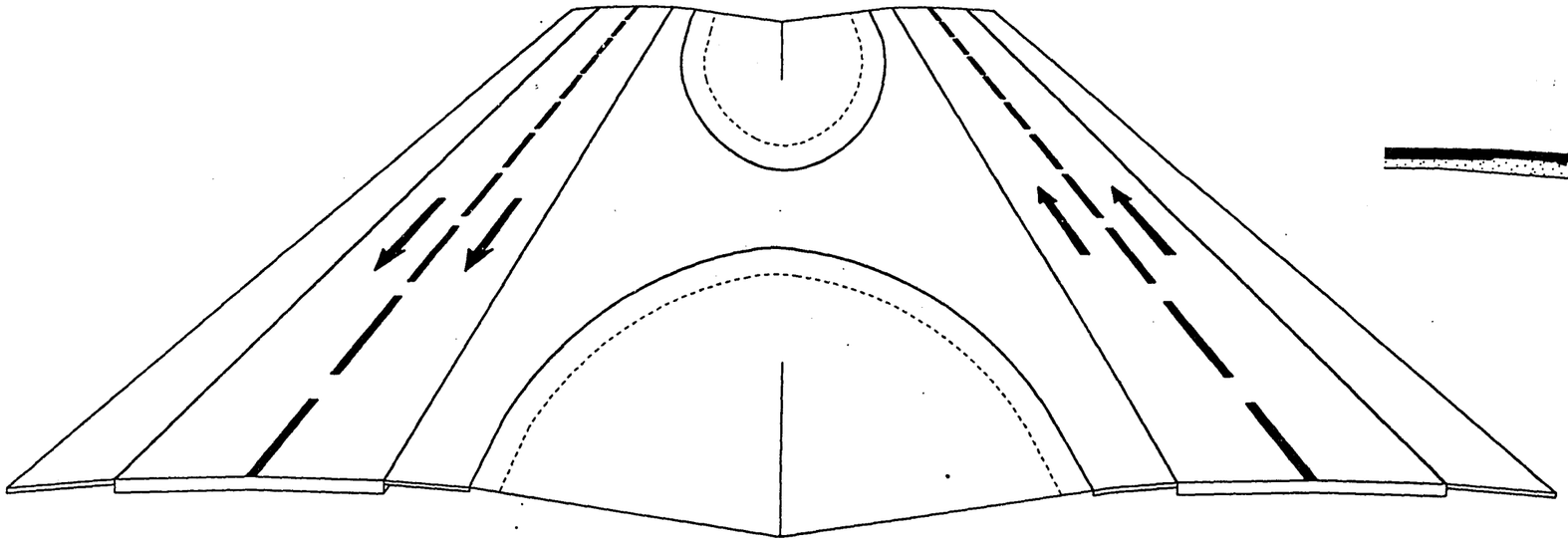


SECTION A-A



SECTION B-B

* ASPHALTIC CONCRETE PAVEMENT (NIC)

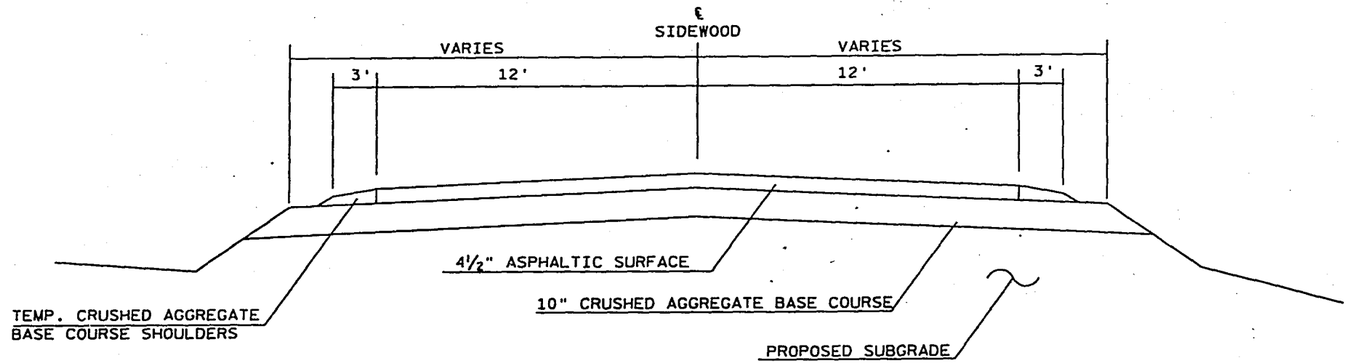


GENERAL NOTES

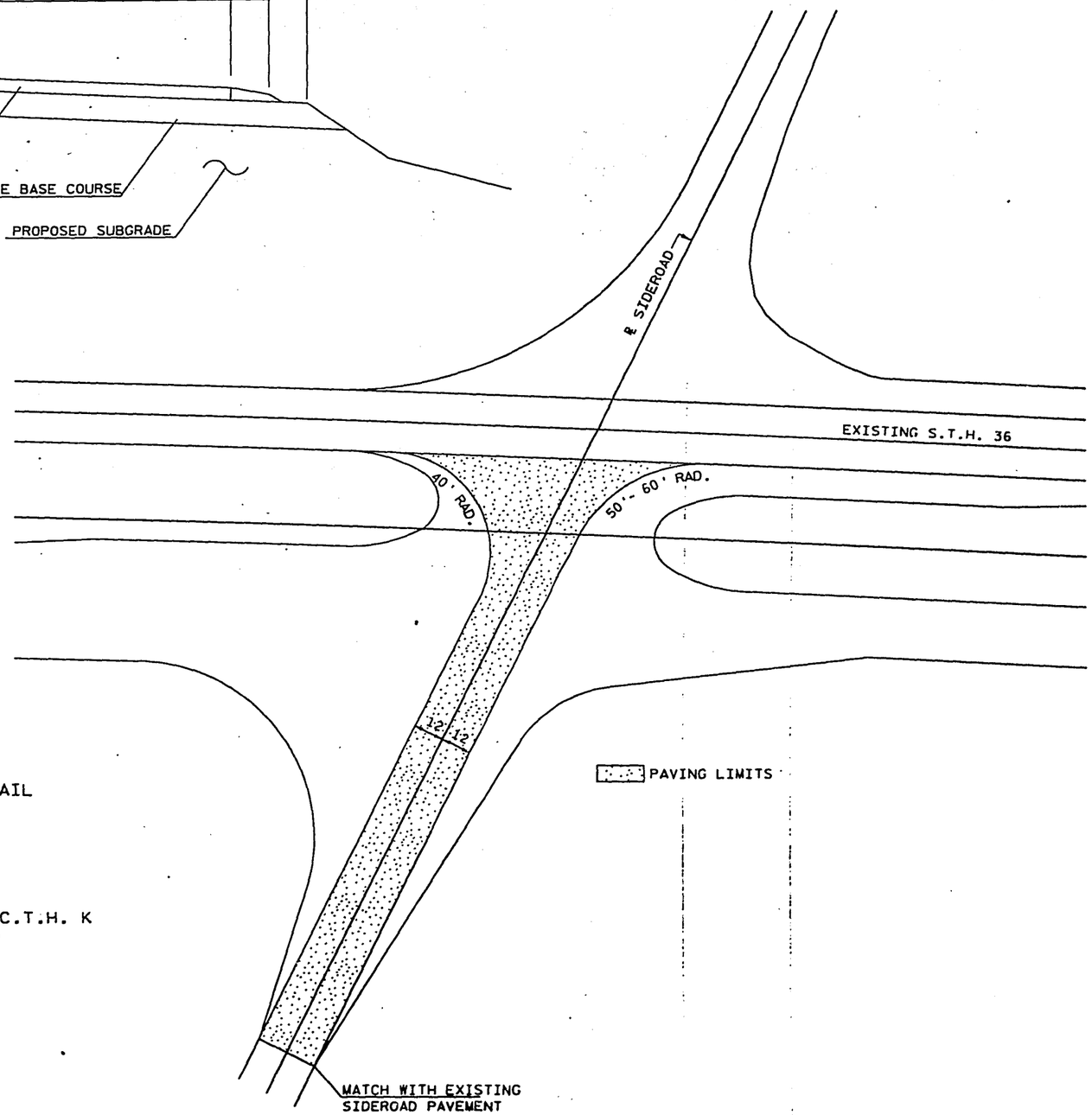
DETAILS OF CONSTRUCTION, MATERIALS AND WORKMANSHIP NOT SHOWN ON THIS DRAWING SHALL CONFORM TO THE PERTINENT REQUIREMENTS OF THE STANDARD SPECIFICATIONS AND THE APPLICABLE SPECIAL PROVISIONS.

LEVELS ON - 1,2,3,4,5,6,7,8,9,10,11,12,13,14,15,16,17,18,19,20,21,22,23,24,25,26,27,28,29,30,31,32,33,34,35,36,37,38,39,40,41,42,43,44,45,46,47,48,49,50,51,52,53,54,55,56,57,58,59,60,61,62,63

FILE NAME: HDGN:D2 2240073655:CRSOVR.DGN



TEMPORARY PAVEMENT DETAIL
SIDEROADS-
RIVER ROAD
C.T.H. J
C.T.H. D
S.T.H. 20
MAIN ROAD
S.T.H. 164/C.T.H. K
KRAMER ROAD



LEVELS ON - 1,2, 4,5,6,7,8, 11, 13, 20, 25,26,27,28,29, 31,32,33,34,35,36, 39,40,41,42,43,44, 51,54,55,56,57,58,59,60,61,62,63

STATE PROJECT NUMBER	SHEET NO.
2240-07-[illegible]0	2.19

INTERSECTION DETAIL
S.T.H. 36 & TEUT RD.
S.T.[illegible] 36 RACINE [illegible].

PI STATION	88+21.49 (TEMP. CROSSOVER)
DELTA	4°23'30.64"RT
DEGREE OF CURVE	1°54'35.49"
TANGENT	115.03
LENGTH	229.96
RADIUS	3000.00
PC STATION	87+06.45 (TEMP. CROSSOVER)
PT STATION	89+36.41 (TEMP. CROSSOVER)

STATION ON CROSS-OVER	DISTANCE FROM ℄ OF CROSS-OVER TO ℄
81+36.03	.00
81+50	.00
82+00	.83 RT
82+50	.76 RT
83+00	1.64 RT
83+50	2.83 RT
84+00	4.35 RT
84+50	6.20 RT
85+00	8.30 RT
85+50	10.89 RT
86+00	13.72 RT
86+50	16.88 RT
87+00	20.36 RT
87+50	23.86 RT
88+00	26.87 RT
88+50	29.35 RT
89+00	31.33 RT
89+34.85	32.08 RT

NOTE: PAVEMENT GRADES FOR INFORMATION ONLY. MATCH EXISTING ELEVATION AND CROSS SLOPE.

TEUT ROAD

71+00

70+00

PC 69+56.92

POST
POL
TEL

R/W

WALL

STA. 86+65.89 (STH 36), 100'LT.

70'R

MATCH EXISTING

N 20° 33' 43" W

69.00

67+98.60

STA. 87+93.46 (STH 36), 73.0'LT.

MATCH EXISTING

35'R

3' CRUSHED AGGREGATE SHOULDER

762.39
763.09
762.85
763.64
763.79
764.31
764.07
763.88
763.83
763.81
764.57
764.33
764.81

85+00
86+00
87+00
88+00
89+00
90+00

72"RCP

30" CURB AND GUTTER, TYPE "D"

STA. 89+00
SAWING PAVEMENT

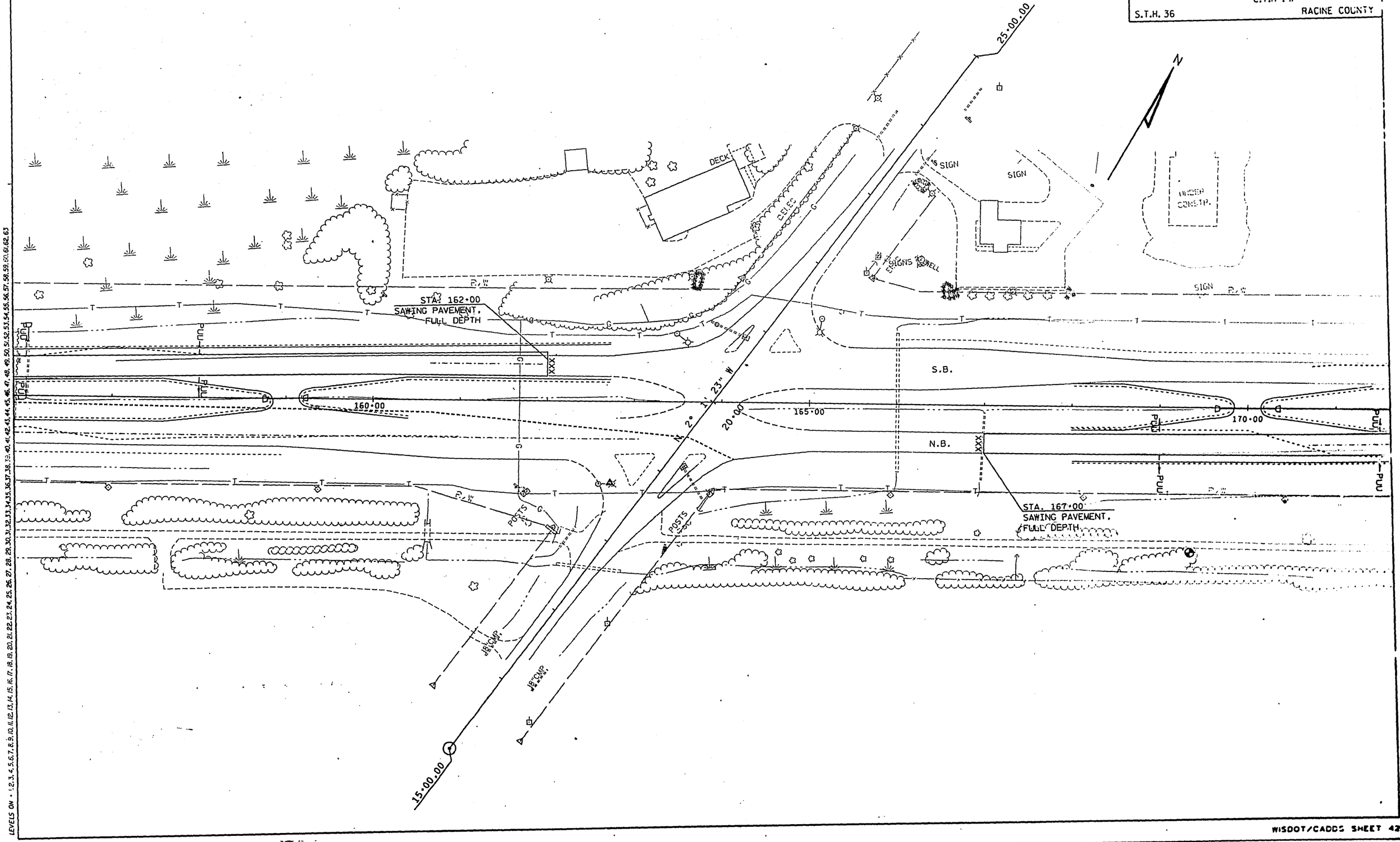
F/O SIGN POSTS

LEVELS ON • 1,2,3,4,5,6,7,8,9,10,11,12,13,14,15,16,17,18,19,20,21,22,23,24,25,26,27,28,29,30,31,32,33,34,35,36,37,38,39,40,41,42,43,44,45,46,47,48,49,50,51,52,53,54,55,56,57,58,59,60,61,62,63

FILE NAME: HDGN:D2 224007365:PDTEUT.DGN

STATE PROJECT NUMBER	SHEET NO.
2240-07-70	2.20

INTERSECTION DETAIL
C.T.H. "W"
S.T.H. 36 RACINE COUNTY



LEVELS ON • 1.2.3.4.5.6.7.8.9.10.11.12.13.14.15.16.17.18.19.20.21.22.23.24.25.26.27.28.29.30.31.32.33.34.35.36.37.38.39.40.41.42.43.44.45.46.47.48.49.50.

WISDOT/CADDS SHEET 42

FILE NAME: HDGN:D2 224007365:PDCTHW.DGN

STATE PROJECT NUMBER	SHEET NO.
2240-07-70	2.21

INTERSECTION DETAIL
S.T.H. 36 & RIVER ROAD

S.T.H. 36 — RACINE C.

NOTE: FIELD VERIFY EXISTING GRADES

STA 239+82.29 STH 36 =
STA 18+76.24 RIVER RD.

PC 19+66.41

STA 240+32.73 STH36 , 3.00 LT
10' RAD.

STA 241+54.27 STH 36 , 18.00 LT

STA 238+03.26 STH 36 , 8.00 RT

STA 239+31.88 STH 36 , 11.00 LT
10' RAD.

REMOVE TO
EDGE OF PAVEMENT

N 51° 10' 10" W

237+00 238+00 239+00 240+00 241+00 242+00

60' RAD. 40' RAD. 50' RAD.

STA 238+67.82 STH 36, 96.00 RT=
STA 17+35.80 RIVER ROAD, 64.43 LT

CONCRETE CURB AND GUTTER
36-INCH, TYPE "D"

CONCRETE SURFACE DRAIN
REQUIRED

STA 240+11.12 STH 36 106.00 RT=
17+91.58 RIVER ROAD , 68.00 RT

CONCRETE CURB AND GUTTER
36-INCH, TYPE "D"

CONCRETE SURFACE DRAIN
REQUIRED

SAWING PAVEMENT

STA 15+90
SAWING PAVEMENT
MATCH EXIST. SUPER ELEVATIONS

CONC. SLAB

POST

POST

R/W

I.P.

PI STATION	=	16+49.95 RIVER RD.
DELTA	=	29°11'55.69"LT
DEGREE OF CURVE	=	9° 0'31.57"
TANGENT	=	165.66
LENGTH	=	324.12
RADIUS	=	636.00
PC STATION	=	14+84.29 RIVER RD.
PT STATION	=	18+08.41 RIVER RD.

LEVELS ON • 1,2,3,4,5,6,7,8,9,10,11,12,13,14,15,16,17,18,19,20,21,22,23,24,25,26,27,28,29,30,31,32,33,34,35,36,37,38,39,40,41,42,43,44,45,46,47,48,49,50,51,52,53,54,55,56,57,58,59,60,61,62,63

FILE NAME: HDGN:D2 2240073655:PDRIVER.DG

STATE PROJECT NUMBER	SHEET NO.
2240-07-70	2.22

INTERSECTION DETAIL
S.T.H. 36 & C.T.H. J

S.T.H. 36 RACINE CO.

NOTE: FIELD VERIFY EXISTING GRADES

STA 276+36.93 STH 36=
STA 20+00.00 CTH J

STA 276+87.34 STH 36 , 1.00 RT
10' RAD.

STA 278+15.72 CTH J , 18.00 LT

STA 274+57.58 STH 36 , 8.00 RT

STA 275+86.52 STH 36 , 11.00 LT
10' RAD.

℄ C.T.H. 36

℄ C.T.H. "J"

℄ S.T.H. 36

℄ S.B.

℄ N.B.

REMOVE TO EDGE OF PAVEMENT

60' RAD.

3' ASPH. SHLDR.

12'

18'

14'

PC 20+80.70

CONCRETE SURFACE DRAIN REQUIRED

STA 275+55.78 STH 36, 96.00 RT=
STA 21+09.02 CTH J , 64' RT

50' RAD.

CONC. CURB & GUTTER, 36-INCH, TYPE D

STA 276+88.08 STH 36 , 106.00 RT=
STA 20+95.58 CTH J , 68' LT

MATCH EXISTING CROSS SLOPE

STA. 22+00
SAWING PAVEMENT
MATCH EXISTING PAVEMENT

R/W

P.

SIGN

PI STATION	=	23+32.12 CTH J
DELTA	=	14°59'55.88"RT
DEGREE OF CURVE	=	3° 0' 0.00"
TANGENT	=	251.42
LENGTH	=	499.96
RADIUS	=	1909.86
PC STATION	=	20+80.70 CTH J
PT STATION	=	25+80.66 CTH J

LEVELS ON • 1,2,3,4,5,6,7,8,9,10,11,12,13,14,15,16,17,18,19,20,21,22,23,24,25,26,27,28,29,30,31,32,33,34,35,36,37,38,39,40,41,42,43,44,45,46,47,48,49,50,51,52,53,54,55,56,57,58,59,60,61,62,63

FILE NAME: HDGN:D2 22400736S:PDCTHJ.DGN

WISDOT/CADDS SHEET 42

STATE PROJECT NUMBER	SHEET NO.
2240-07-70	2.23

INTERSECTION DETAIL
C.T.H. 36 & C.T.H. D

S. ..E. 36 RACINE CO.

NOTE: FIELD VERIFY EXISTING GRADES

PI STATION	=	18+42.73 CTH D
DELTA	=	7°56'23.33"RT
DEGREE OF CURVE	=	4° 0' 0.05"
TANGENT	=	99.41
LENGTH	=	198.49
RADIUS	=	1432.39
PC STATION	=	17+43.32 CTH D
PT STATION	=	19+41.82 CTH D

PI STATION	=	21+56.73 CTH D
DELTA	=	18°27'36.38"LT
DEGREE OF CURVE	=	9°5..'59.86"
TANGENT	=	93.11
LENGTH	=	184.60
RADIUS	=	572.96
PC STATION	=	20+63.62 CTH D
PT STATION	=	22+48.22 CTH D

PI STATION	=	326+22.37 STH 36
DELTA	=	20° 0'14.29"RT
DEGREE OF CURVE	=	0°29'0.00"
TANGENT	=	3031.45
LENGTH	=	6001.19
RADIUS	=	17188.73
PC STATION	=	295+90.92 STH 36
PT STATION	=	355+92.11 STH 36
S.E.	=	.02%

PI STATION	=	24+24.91 CTH D
DELTA	=	9° 5'55.90"RT
DEGREE OF CURVE	=	7°59'59.89"
TANGENT	=	56.99
LENGTH	=	113.74
RADIUS	=	716.20
PC STATION	=	23+67.92 CTH D
PT STATION	=	24+81.66 CTH D

* ISLANDS HAVE PLOWABLE NOSES AND DELINEATOR POST. PLACE 6-INCH CRUSHED AGGREGATE BASE COURSE, LEAVE 2-INCH LOW FOR FUTURE ASPHALTIC CONCRETE PAVEMENT. (NIC)

STA 295+42.32 STH 36 , 8.00'RT

STA 296+71.13 STH 36, 11.0' LT

STA 297+65.59 STH 36 , 58.86 RT= 21+11.41 CTH D, 30.88 LT 2.5'RAD.

STA 297+53.07 STH 36 , 60.18 RT= 21+09.29 CTH D , 18.50 LT 2.5'RAD.

STA 297+64.43 STH 36 , 96.61 RT= 21+48.71 CTH D , 18.50 LT 2.5'RAD.

STA 296+69.64 STH 36, 106.00 RT= STA 21+29.2935 CTH D , 74.00 RT

STA 297+21.10 STH 36 = STA 20+42.73 CTH D

STA 297+71.08 STH 36, 1.0' RT

STA 298+99.75 STH 36 , 18.0' LT

STA 298+25.90 STH 36 , 96.00 RT STA 21+71.39 CTH D , 76.00 LT

STA. 22+50 SAWING PAVEMENT MATCH EXIST. PAVEMENT

CONCRETE CURB AND GUTTER 36-INCH, TYPE "D"

CONCRETE CURB AND GUTTER 18-INCH, TYPE "D"

CONCRETE SURFACE DRAIN REQUIRED

REMOVE TO EDGE OF PAVEMENT

R C.T.H. "D"

S 84° 11' 18" E

N 77° 21'

PLANTER

ANT.

FILE NAME: HDGN:D2 224007365:PDCTHD.DGN

WISDOT/CADDS SHEET 42

STATE PROJECT NUMBER	SHEET NO.
2240-07-70	2.24

INTERSECTION DETAIL
STH 20 & STH 36
STH 36 RACINE COUNTY

NOTE: FIELD VERIFY EXISTING GRADES.

METER PED BX

STA. 344+93.21 R STH 36 =
STA. 101+51.04 STH 20

SAWING PAVEMENT

STA 344+37.54 STH 36 , 11.00 LT
10'RAD.

STA 346+72.00 STH 36 , 18.00 LT
MATCH EXISTING PAVEMENT CROSS SLOPE

STA 345+48.82 STH 36 , 1.0'RT
10'RAD.

STA 343+14.67 STH 36 , 8.00 RT

CONCRETE SURFACE DRAIN
REQUIRED.

STA. 343+79.28 R STH 36 96.00'RT.=
STA 102+85.35 STH 20, 63.57 RT

CONCRETE CURB AND GUTTER
36-INCH, TYPE "D"

STA. 345+26.98 R STH 36 106.00'RT,
STA 102+33.80 STH 20, 74.50 LT

30" CURB AND GUTTER TYPE "D"

10' TAPERED SECTION

100' TAPER MATCH EXISTING SLOPES

50' TAPER MATCH EXISTING SLOPES

STA. 103+54
SAWING PAVEMENT
MATCH EXIST. PAVEMENT

TO BE REMOVED

PI STATION	=	326+22.37 (STH 36)
DELTA	=	20° 0'14.29"RT
DEGREE OF CURVE	=	0°20' 0.00"
TANGENT	=	3031.45
LENGTH	=	6001.19
RADIUS	=	17188.73
PC STATION	=	295+90.92 (STH 36)
PT STATION	=	355+92.11 (STH 36)
S.E.	=	.02%

▲ TEMP. SIGNAL POLES *

------ TEMP. OVERHEAD WIRING *

* TO BE INSTALLED BY STATE FORCES

NOTE:
1. CONTACT KEITH WOOD (414) 266-1155 AT THE STATE ELECTRICAL SHOP 21 DAYS PRIOR TO CONSTRUCTION FOR PLACEMENT OF TEMPORARY SIGNALS.

2. REMOVAL OF EXISTING SIGNALS AND BASES WILL BE PERFORMED BY STATE FORCES WHEN NOTIFIED.

(3) REMOVE PULL BOX

(4) POLES TO BE REMOVED BY STATE FORCES.

LEVELS ON - 1,2,3,4,5,6,7,8,9,10,11,12,13,14,15,16,17,18,19,20,21,22,23,24,25,26,27,28,29,30,31,32,33,34,35,36,37,38,39,40,41,42,43,44,45,46,47,48,49,50,51,52,53,54,55,56,57,58,59,60,61,62,63

FILE NAME: HDGN:D2 22400736S:PDSTH20.DG

STATE PROJECT NUMBER	SHEET NO.
2240-07-70	2.25

INTERSECTION DETAIL
S.T.H. 36 & MAIN STREET

S.T.H. 36 — RACINE CO.

NOTE: FIELD VERIFY EXISTING GRADES.

N

FO — FO

PU O/H LINE

PU O/H LINE

R MAIN STREET 19.00

REMOVE

STA 387+35.95 STH 36 , 8.0'RT.

387+00

STA 388+62.19 STH 36 , 10'LT

388+00

388+85.81BK = 388+87.33FWD

60'RAD.

10'RAD.

50'RAD.

40'RAD.

SAWING PAVEMENT

PT 20+15.75

+35.95 8.0'RT.

STA 388+94.34 STH 36, 106.00 RT
STA 20+76.70 MAIN ST., 75.19 RT

STA 389+99.11 STH 36 , 58.74 RT=
STA 20+93.52 MAIN ST., 38.52 LT

STA 389+74.89 STH 36 , 60.24 RT=
STA 20+81.70 MAIN RD., 17.32 LT

STA 389+93.00 STH 36 , 89.51 RT=
STA 21+16.16 MAIN ST., 17.33 LT

16'

R MAIN RD.

12'

CONCRETE CURB AND GUTTER
36-INCH, TYPE "D"

CONCRETE SURFACE DRAIN REQUIRED

PI STATION	=	18+49.63 MAIN ST.
DELTA	=	9°59'33.65"LT
DEGREE OF CURVE	=	3° 0' 0.00"
TANGENT	=	166.97
LENGTH	=	333.09
RADIUS	=	1909.86
PC STATION	=	16+82.66 MAIN RD.
PT STATION	=	20+15.75 MAIN RD.

* ISLANDS HAVE PLOWABLE NOSES AND DELINEATOR POST. PLACE 6-INCH CRUSHED AGGREGATE BASE COURSE, LEAVE 2-INCH LOW FOR FUTURE ASPHALTIC CONCRETE PAVEMENT. (NIC).

STA 390+98.55 STH 36 , 15'LT.

℄ S.B.

198.55 15.0'LT.

12'

R S.T.H. 36

STA 389+74.20 STH 36 , 1.34 RT

390+00

391+00

392+00

℄ N.B.

CONCRETE CURB AND GUTTER
18-INCH, TYPE D

CONCRETE SURFACE DRAIN REQUIRED

CONCRETE CURB AND GUTTER
36-INCH, TYPE "D"

STA 390+54.81 STH 36., 99.19 RT=
STA 21+57.64 MAIN ST., 63.55 LT

METER

SIGN

PI STATION	=	385+14.76 (STH 36)
DELTA	=	17°15'48.1" LT
DEGREE OF CURVE	=	1° 30' 0.00"
TANGENT	=	579.84
LENGTH	=	1150.89
RADIUS	=	3819.72
PC STATION	=	377+34.92 (STH 36).
PT STATION	=	388+85.81 (STH 36).
PT. EQUATION	=	388+87.33AHD.
S.E.	=	.04%

STA. 23+00
SAWING PAVEMENT
MATCH EXIST. PAVEMENT

LEVELS ON • 1,2,3,4,5,6,7,8,9,10,11,12,13,14,15,16,17,18,19,20,21,22,23,24,25,26,27,28,29,30,31,32,33,34,35,36,37,38,39,40,41,42,43,44,45,46,47,48,49,50,51,52,53,54,55,56,57,58,59,60,61,62,63

STATE PROJECT NUMBER	SHEET NO.
2240-07-70	2.26

INTERSECTION DETAIL
S.T.H. 36 & S.T.H 164

S.T.H. 36 — RACINE CO.

NOTE: FIELD VERIFY EXISTING GRADES

SAWING PAVEMENT

STA 428+49.54 STH 36 =
STA 108+80.27 STH 164

429+00.98 STH 36
1.00 RT, 10' RAD.

430+29.60 STH 36
18.00 LT

426+71.69 STH 36

428+00.22 STH 36
11.00 LT, 10' RAD.

CONCRETE SURFACE DRAIN REQUIRED

CONCRETE SURFACE DRAIN REQUIRED

STA. 427+81.63 STH 36 96.00 RT=
STA. 109+78.23 STH 164, 63.61 RT

CONCRETE CURB AND GUTTER
36-INCH, TYPE "D"

CONCRETE CURB AND GUTTER
36-INCH, TYPE "D"

STA. 429+19.02 STH 36, 106.00 RT=
STA. 109+84.3582 STH 164, 74.00' LT.

PT 110+73.96

STA. 110 + 82
SAWING PAVEMENT
MATCH EXISTING PAVEMENT

PI STATION	=	92+36.30 STH 164
DELTA	=	81°43'20.05"LT
DEGREE OF CURVE	=	1°45' 0.01"
TANGENT	=	2832.18
LENGTH	=	4669.84
RADIUS	=	3274.04
PC STATION	=	64+04.13 STH 164
PT STATION	=	110+73.96 STH 164

LEVELS ON - 1,2,3,4,5,6,7,8,9,10,11,12,13,14,15,16,17,18,19,20,21,22,23,24,25,26,27,28,29,30,31,32,33,34,35,36,37,38,39,40,41,42,43,44,45,46,47,48,49,50,51,52,53,54,55,56,57,58,59,60,61,62,63

FILE NAME: HDGN:D2 22400736S:POSTH164.D

STATE PROJECT NUMBER	SHEET NO.
2240-07-70	2.27

INTERSECTION DETAIL
S.T.H. 36 & KRAMER RD.
S.T.H. 36 RACINE CO.

NOTE: FIELD VERIFY EXISTING GRADES

PI STATION	=	462+92.33 (STH 36)
DELTA	=	16° 7'12.37"RT
DEGREE OF CURVE	=	0°30' 0.00"
TANGENT	=	1622.73
LENGTH	=	3224.02
RADIUS	=	11459.16
PC STATION	=	446+69.60 (STH 36)
PT STATION	=	478+93.62 (STH 36) BK
PT. EQUATION	=	478+95.82 AHD
SE. RC.	=	.02%

F/O POST
F.O.
POST
F.O.
F.O.
F.O.
R/W F.O.
F.O.
F.O.
R KRAMER ROAD
19.00
N 87° 52' 17" E
N
STA 448+16.94 STH 36 =
STA 20+01.01 KRAMER RD.
796.21
797.00
797.82
798.58
SAWING PAVEMENT
795.98
796.77
XXX
797.60
798.37
XXX
XXX
℄ S.B.
24'
STA 449+95.35 STH 36, 18' LT
68°31'16"
60' RAD
796.78
797.11
797.45
797.88
60' RAD
TO BE MOVED BY OTHERS
STA 446+38.27 STH 36, 7.59 RT
STA 447+66.97 STH 36 ,
10.98 LT, 10' RAD.
445+00
446+00
447+00
448+00
20.00
450+00
451+00
℄ R STH 36
℄ L
795.12
795.92
796.71
797.16
797.49
797.87
798.26
STA 448+66.93 STH 36,
.02 RT, 10'RAD.
12'
.02%
60' RAD
793.45
794.33
795.22
796.10
796.95
797.40
797.73
798.11
798.50
799.26
800.00
800.72
801.43
792.35
793.40
794.25
795.08
795.90
796.71
797.16
797.49
797.95
798.26
799.02
799.52 799.76 ℄ N.B.
800.48
801.19
801.88
793.16
794.01
794.84
795.66
796.47
796.92
797.25
797.77
798.02
798.78
799.28 799.52
800.24
800.95
801.64
795.42
796.23
796.68
797.01
797.61
797.78
798.22
798.42
798.92
8'
PC 446+69.60
PUE
CONCRETE SURFACE DRAIN
REQUIRED
797.45
797.51
40' RAD.
STA 449+33.96 STH 36, 96.00 RT=
STA 21+33.50 KRAMER RD., 72.41LT
STA 448+60.90 STH 36, 60.22 RT=
STA 20+73.17 KRAMER RD., 18.50 LT
2.5' R
2.5' R
2.5' R
R KRAMER ROAD
16'
CONCRETE CURB AND GUTTER
36-INCH, TYPE "D"
50' RAD.
STA 447+78.94 STH 36, 106.00 RT=
STA 20+85.82 KRAMER RD., 74.00 RT
797.25
797.05
797.29
797.17
797.55
797.88
797.87
796.87
796.98
796.55
796.39
796.23
796.17
795.91
795.87
795.63
795.55
795.35
795.27
795.11
CONCRETE SURFACE DRAIN
REQUIRED
STA 448+78.47 STH 36, 58.80 RT=
STA 20+78.35 KRAMER RD 35.25 LT
CONCRETE CURB AND GUTTER
18-INCH, TYPE "D"
STA 448+74.03 STH36, 92.79 RT=
STA 21+08.24 KRAMER RD., 18.50 LT
R/W
*ISLANDS HAVE PLOWABLE
NOSES AND DELINEATOR POST.
PLACE 6-INCH CRUSHED AGGREGATE BASE
COURSE, LEAVE 2-INCH LOW FOR FUTURE
ASPHALTIC CONCRETE PAVEMENT (NIC)
SIGN POSTS
SIGN
I.P.
I.P.
SAWING PAVEMENT
MATCH EXISTING PAVEMENT
STA: 22+50
24'
11'
11'

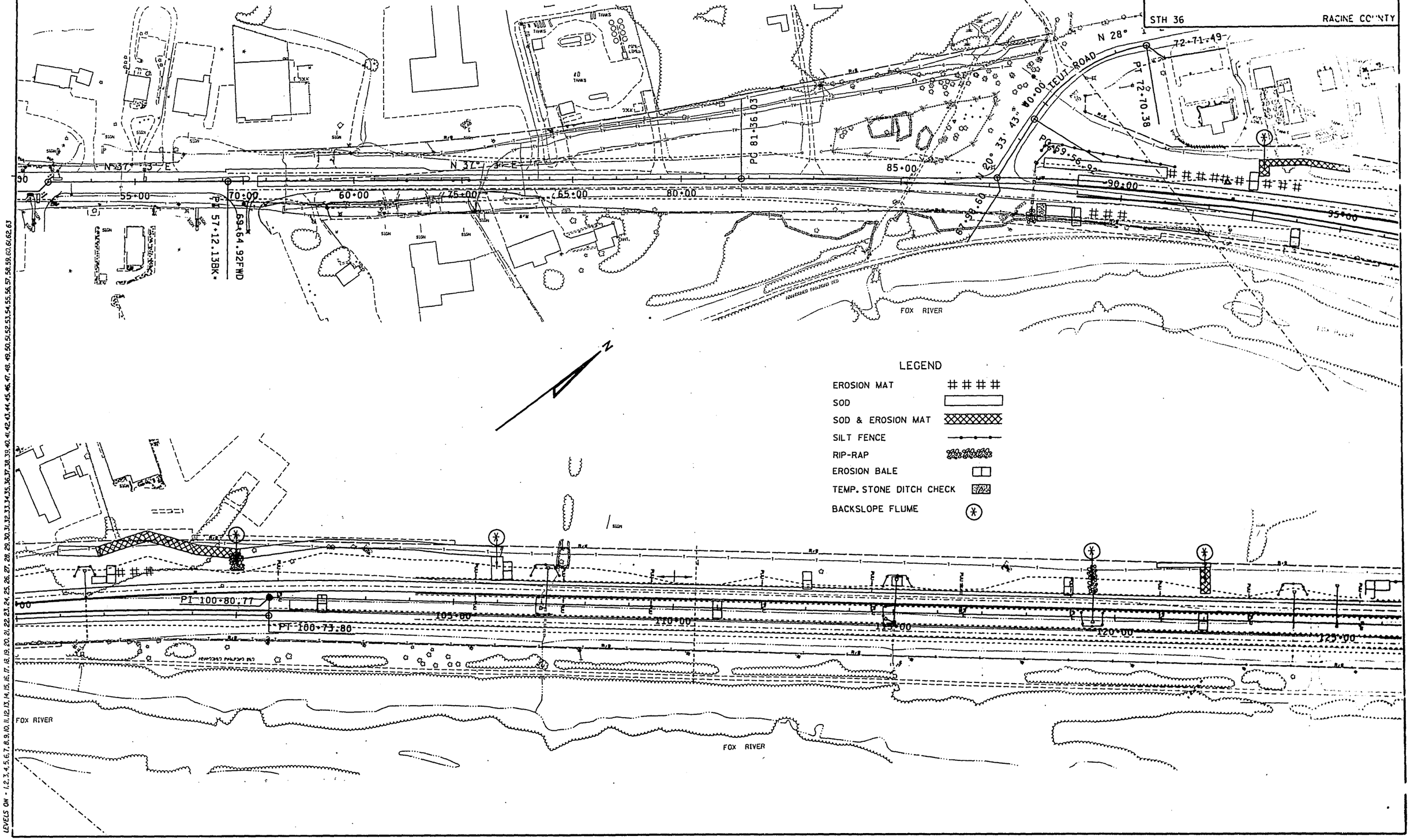
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PLOT SCALE=

FILE NAME: HDGN:D2 2240073651PDKRAM.DGN

WISDOT/CADDS SHEET 42

STATE PROJECT NUMBER	SHEET NO.
2240-07-70	2.28
EROSION CONTROL	
STH 36	RACINE COUNTY



LEGEND

- EROSION MAT
- SOD
- SOD & EROSION MAT
- SILT FENCE
- RIP-RAP
- EROSION BALE
- TEMP. STONE DITCH CHECK
- BACKSLOPE FLUME

LEVELS ON - 1,2,3,4,5,6,7,8,9,10,11,12,13,14,15,16,17,18,19,20,21,22,23,24,25,26,27,28,29,30,31,32,33,34,35,36,37,38,39,40,41,42,43,44,45,46,47,48,49,50,51,52,53,54,55,56,57,58,59,60,61,62,63

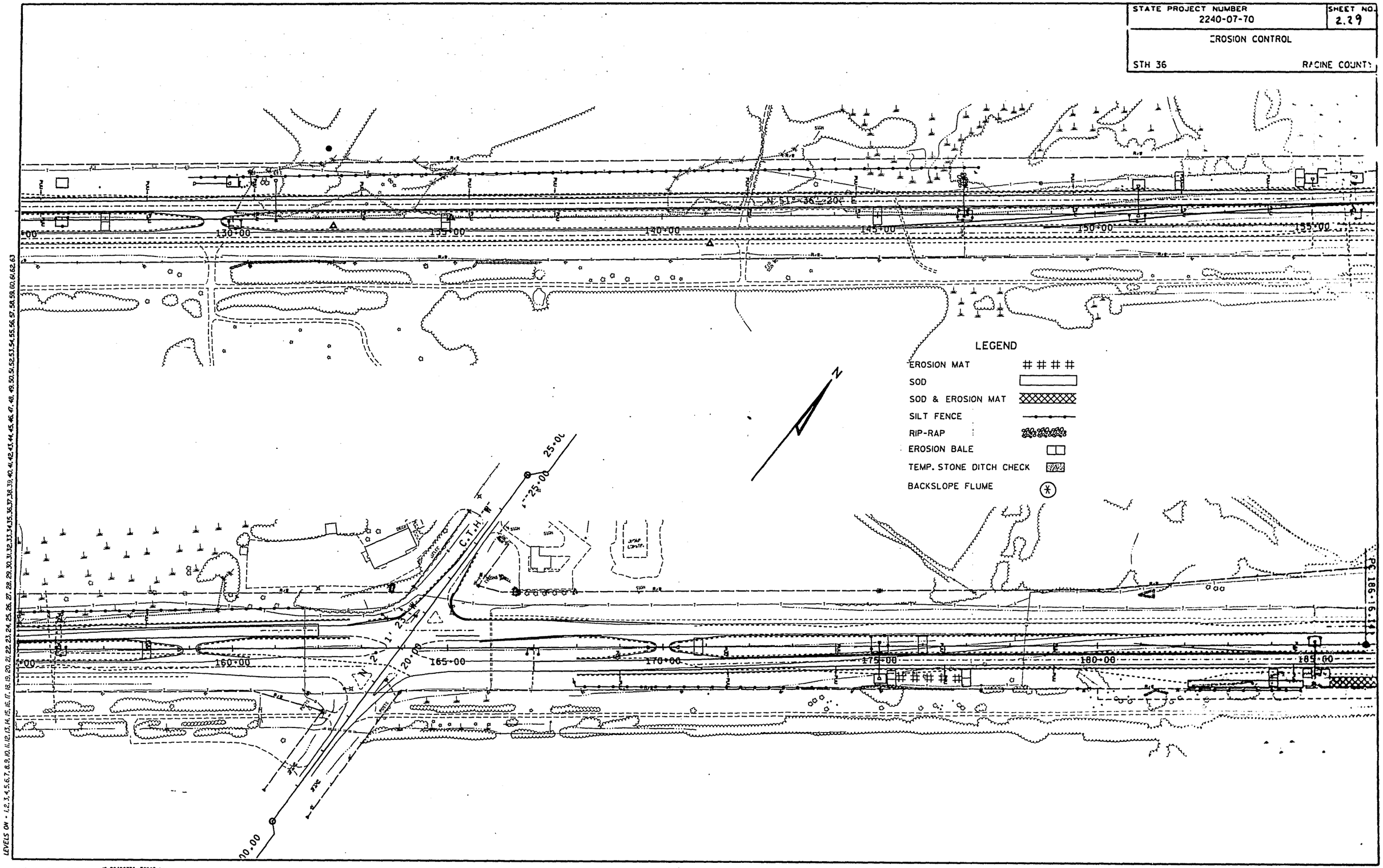
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WISDOT/CADDS SHEET 42

STATE PROJECT NUMBER	SHEET NO.
2240-07-70	2.29

EROSION CONTROL

STH 36 RACINE COUNTY



LEGEND

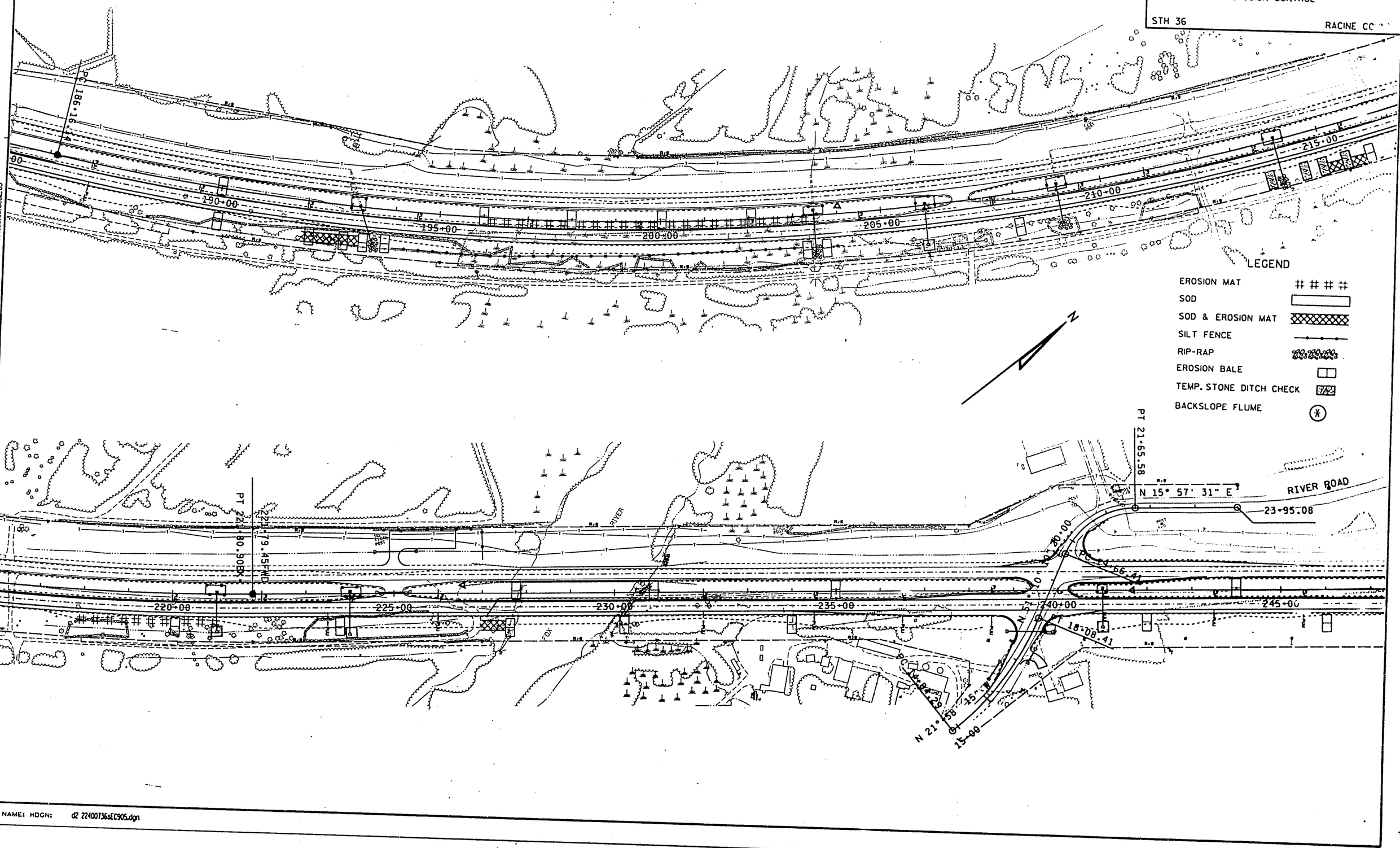
EROSION MAT	# # # #
SOD	
SOD & EROSION MAT	
SILT FENCE	
RIP-RAP	
EROSION BALE	
TEMP. STONE DITCH CHECK	
BACKSLOPE FLUME	*

LEVELS ON - 1,2,3,4,5,6,7,8,9,10,11,12,13,14,15,16,17,18,19,20,21,22,23,24,25,26,27,28,29,30,31,32,33,34,35,36,37,38,39,40,41,42,43,44,45,46,47,48,49,50,51,52,53,54,55,56,57,58,59,60,61,62,63

STATE PROJECT NUMBER 2240-07-70 | SHEET NO. 2.30

EROSION CONTROL

STH 36 RACINE CO.



LEVELS ON - 1,2,3,4,5,6,7,8,9,10,11,12,13,14,15,16,17,18,19,20,21,22,23,24,25,26,27,28,29,30,31,32,33,34,35,36,37,38,39,40,41,42,43,44,45,46,47,48,49,50,51,52,53,54,55,56,57,58,59,60,61,62,63

FILE NAME: HDGN: d2 2240073&sEC905.dgn

STATE PROJECT NUMBER	SHEET NO.
2240-07-70	2.31
EROSION CONTROL	
STH 36	RACINE COUNTY

N 15° 57' 28" E

S 64° 32' 17" E

250+00 255+00 260+00 265+00 270+00 275+00

PC-20 R0.70

200.00

C.T.H. J

S 64° 32' 17" E

100.00

280+00 285+00 290+00 295+00 300+00 305+00

S 29° 50' 32" E

C.T.H. D

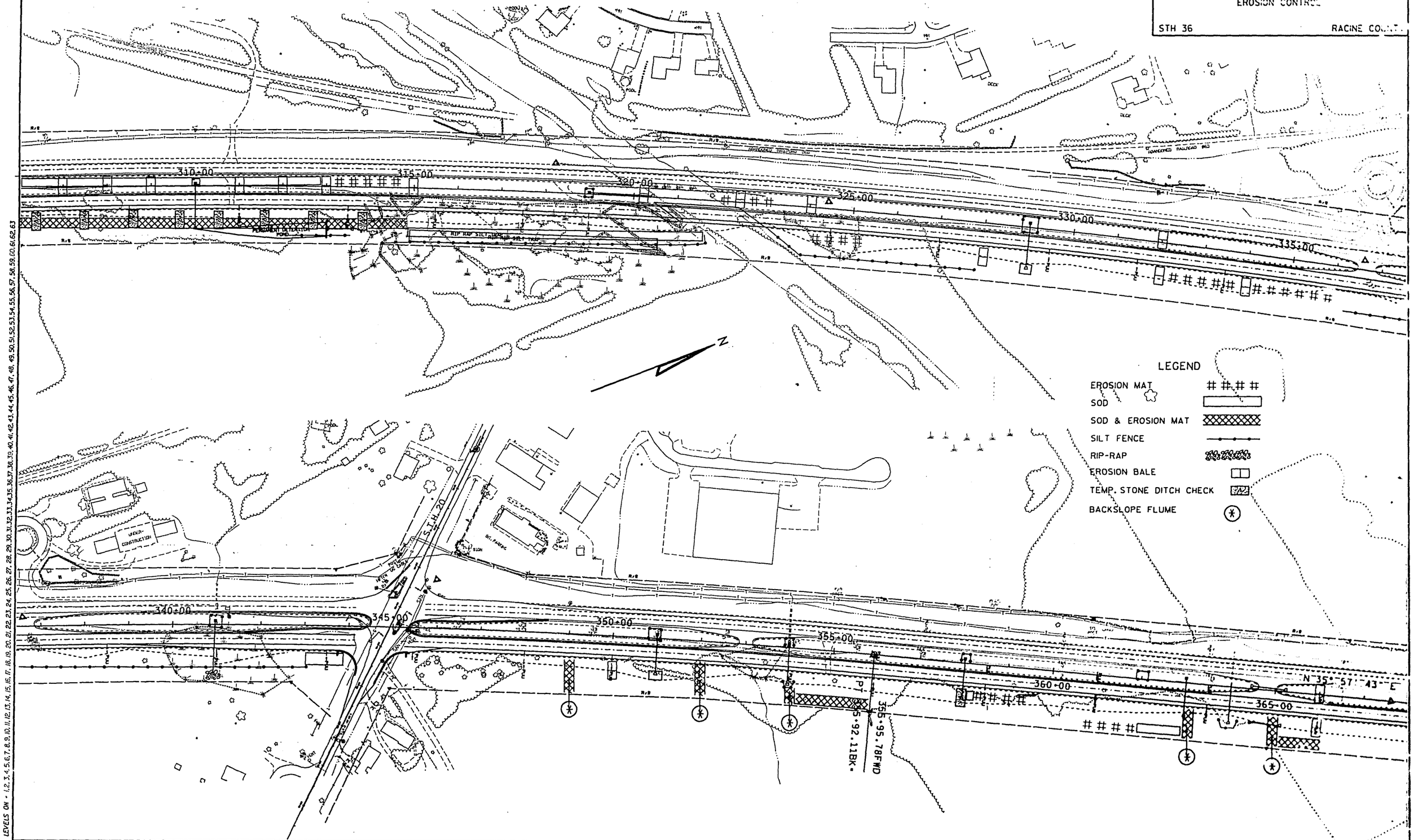
LEGEND

- EROSION MAT
- SOD
- SOD & EROSION MAT
- SILT FENCE
- RIP-RAP
- EROSION BALE
- TEMP. STONE DITCH CHECK
- BACKSLOPE FLUME

LEVELS ON • 1,2,3,4,5,6,7,8,9,10,11,12,13,14,15,16,17,18,19,20,21,22,23,24,25,26,27,28,29,30,31,32,33,34,35,36,37,38,39,40,41,42,43,44,45,46,47,48,49,50,51,52,53,54,55,56,57,58,59,60,61,62,63

FILE NAME: HDGN: d:\2240073\ss\EC907.dgn

STATE PROJECT NUMBER	SHEET NO.
2240-07-70	2.32
EROSION CONTROL	
STH 36	RACINE COUNTY



LEVELS ON - 1,2,3,4,5,6,7,8,9,10,11,12,13,14,15,16,17,18,19,20,21,22,23,24,25,26,27,28,29,30,31,32,33,34,35,36,37,38,39,40,41,42,43,44,45,46,47,48,49,50,51,52,53,54,55,56,57,58,59,60,61,62,63

FILE NAME: HDGN: d2 22400736sec909.dgn

STATE PROJECT NUMBER 2240-07-70 | SHEET # 2.33

EROSION CONTROL

STH 36 RACINE COUNTY

LEGEND

- EROSION MAT
- SOD
- SOD & EROSION MAT
- SILT FENCE
- RIP-RAP
- EROSION BALE
- TEMP. STONE DITCH CHECK
- BACKSLOPE FLUME

LEVELS ON - 1,2,3,4,5,6,7,8,9,10,11,12,13,14,15,16,17,18,19,20,21,22,23,24,25,26,27,28,29,30,31,32,33,34,35,36,37,38,39,40,41,42,43,44,45,46,47,48,49,50,51,52,53,54,55,56,57,58,59,60,61,62,63

FILE NAME: HDGN: d2 2240073655EC911.dgn

WISDOT/CADDS SHEET 42

STATE PROJECT NUMBER	SHEET NO.
2240-07-70	2.34
EROSION CONTROL	
STH 36	RACINE COUNTY

S.T.H. 164

105+00

110+00

PT 110+73.96

C.T.H. K

S 71° 18' 20" W

430+00

435+00

440+00

445+00

450+00

455+00

PC 46+58.60

N 38° 52' 17" E

KRAMER ROAD

460+00

465+00

470+00

475+00

480+00

485+00

END PROJECT 2240-07-70
STA. 485+00

BEGIN PROJECT 2240-07-76
STA. 485+00

78+93.62BK
78+95.82FWD

N

LEGEND

EROSION MAT	# # # #
SOD	
SOD & EROSION MAT	
SILT FENCE	
RIP-RAP	
EROSION BALE	
TEMP. STONE DITCH CHECK	
BACKSLOPE FLUME	(*)

LEVELS ON - 1,2,3,4,5,6,7,8,9,10,11,12,13,14,15,16,17,18,19,20,21,22,23,24,25,26,27,28,29,30,31,32,33,34,35,36,37,38,39,40,41,42,43,44,45,46,47,48,49,50,51,52,53,54,55,56,57,58,59,60,61,62,63

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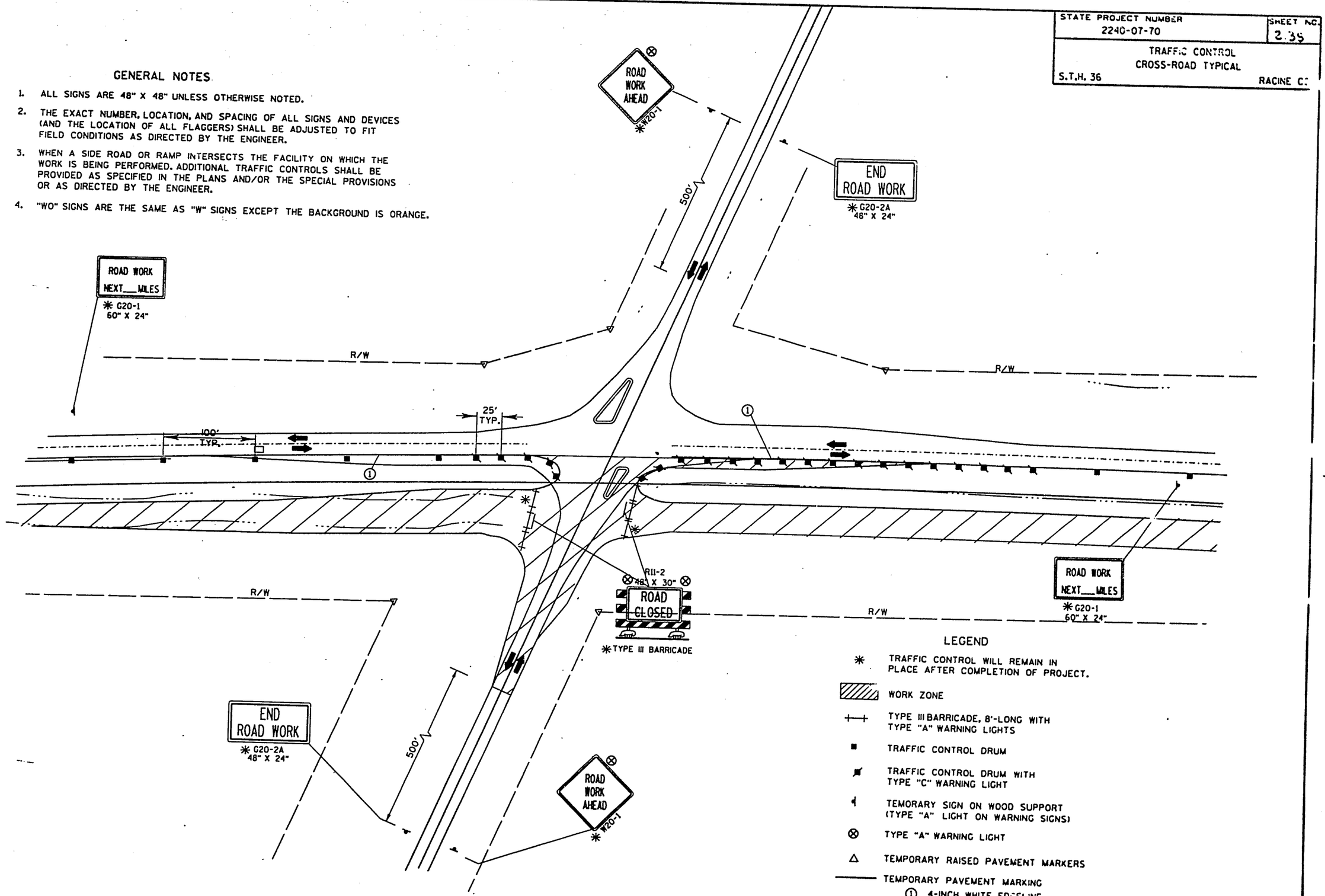
STATE PROJECT NUMBER	SHEET NO.
2240-07-70	2.35

TRAFFIC CONTROL
CROSS-ROAD TYPICAL

S.T.H. 36 RACINE C:

GENERAL NOTES

1. ALL SIGNS ARE 48" X 48" UNLESS OTHERWISE NOTED.
2. THE EXACT NUMBER, LOCATION, AND SPACING OF ALL SIGNS AND DEVICES (AND THE LOCATION OF ALL FLAGGERS) SHALL BE ADJUSTED TO FIT FIELD CONDITIONS AS DIRECTED BY THE ENGINEER.
3. WHEN A SIDE ROAD OR RAMP INTERSECTS THE FACILITY ON WHICH THE WORK IS BEING PERFORMED, ADDITIONAL TRAFFIC CONTROLS SHALL BE PROVIDED AS SPECIFIED IN THE PLANS AND/OR THE SPECIAL PROVISIONS OR AS DIRECTED BY THE ENGINEER.
4. "WO" SIGNS ARE THE SAME AS "W" SIGNS EXCEPT THE BACKGROUND IS ORANGE.



LEGEND

- * TRAFFIC CONTROL WILL REMAIN IN PLACE AFTER COMPLETION OF PROJECT.
- WORK ZONE
- TYPE III BARRICADE, 8'-LONG WITH TYPE "A" WARNING LIGHTS
- TRAFFIC CONTROL DRUM
- TRAFFIC CONTROL DRUM WITH TYPE "C" WARNING LIGHT
- TEMORARY SIGN ON WOOD SUPPORT (TYPE "A" LIGHT ON WARNING SIGNS)
- TYPE "A" WARNING LIGHT
- TEMPORARY RAISED PAVEMENT MARKERS
- TEMPORARY PAVEMENT MARKING
  - ① 4-INCH WHITE EDGELINE
  - ② 4-INCH DOUBLE YELLOW CENTERLINE

LEVELS ON • 1,2,3,4,5,6,7,8,9,10,11,12,13,14,15,16,17,18,19,20,21,22,23,24,25,26,27,28,29,30,31,32,33,34,35,36,37,38,39,40,41,42,43,44,45,46,47,48,49,50,51,52,53,54,55,56,57,58,59,60,61,62,63

FILE NAME: HDGN:22400736S:typcr.DGN

STATE PROJECT NUMBER	SHEET NO.
2240-07-70	2.36

TRAFFIC CONTROL
STAGE I
STH 36 RACINE COUNTY

GENERAL NOTES

1. ALL SIGNS ARE 48" X 48" UNLESS OTHERWISE NOTED.
2. THE EXACT NUMBER, LOCATION, AND SPACING OF ALL SIGNS AND DEVICES (AND THE LOCATION OF ALL FLAGGERS) SHALL BE ADJUSTED TO FIT FIELD CONDITIONS AS DIRECTED BY THE ENGINEER.
3. WHEN A SIDE ROAD OR RAMP INTERSECTS THE FACILITY ON WHICH THE WORK IS BEING PERFORMED, ADDITIONAL TRAFFIC CONTROLS SHALL BE PROVIDED AS SPECIFIED IN THE PLANS AND/OR THE SPECIAL PROVISIONS OR AS DIRECTED BY THE ENGINEER.
4. "WO" SIGNS ARE THE SAME AS "W" SIGNS EXCEPT THE BACKGROUND IS ORANGE.

TANKS
TANKS
PIPE-LINES
DOCK
END ROAD WORK
G20-2A
60"X24"
R11-2
48" X 30"
ROAD CLOSED
TYPE III BARRICADE
PC 81+36.03
81+36.03
N 37° 5' 43" E
67+98.80
PC 69+56.92
N 20° 33' 43" W
PT 72+10.38
500'
N 28° 1' 24" E
70.00
ROAD WORK AHEAD
W20-1
END ROAD WORK
G20-2A
48"X24"
80.00
85.00
25' TYP.
PC 87+06.45
PT 89+36.41
N 41° 29' 24" E
89+65.57
90.00
100' TYP.
POSTS
SIGN
500'
ROAD WORK NEXT 13 MILES
G20-1
60" X 24"
CANT.
500'
500'
ROAD WORK AHEAD
W20-1
ROAD WORK 1000 FT
W20-1
ROAD WORK 500 FT
W20-1
ABANDONED RAILROAD BED
FOX RIVER

LEGEND

- WORK TO BE COMPLETED PRIOR TO STAGE II
- WORK ZONE
- TYPE III BARRICADE, 8'-LONG WITH TYPE "A" WARNING LIGHTS
- TRAFFIC CONTROL DRUM
- TRAFFIC CONTROL DRUM WITH TYPE "C" WARNING LIGHT
- TEMORARY SIGN ON WOOD SUPPORT (TYPE "A" LIGHT ON WARNING SIGNS)
- TYPE "A" WARNING LIGHT
- TEMPORARY RAISED PAVEMENT MARKERS
- TEMPORARY PAVEMENT MARKING
  - ① 4-INCH WHITE EDGELINE
  - ② 4-INCH DOUBLE YELLOW CENTERLINE

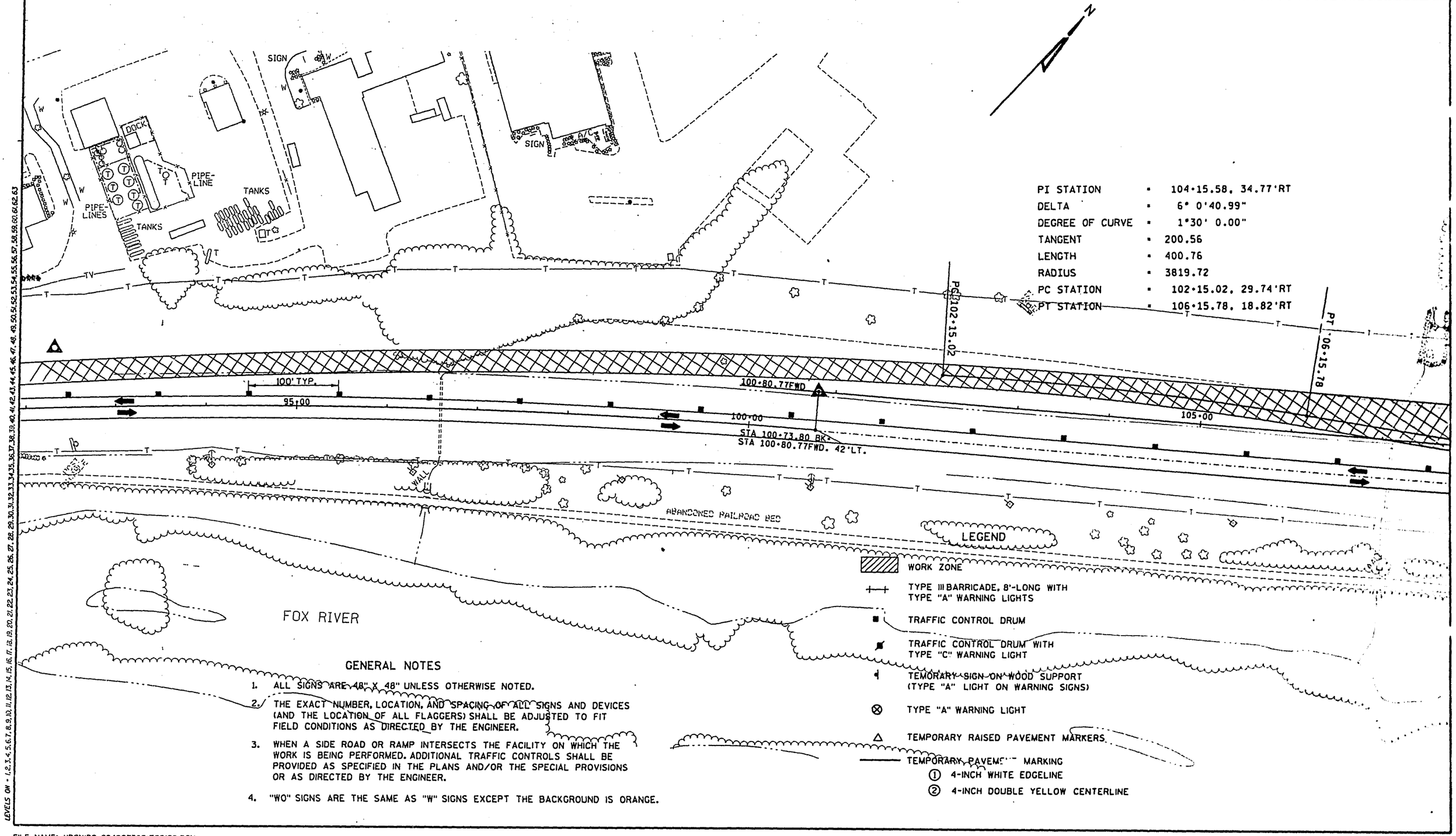
LEVELS ON - 1,2,3,4,5,6,7,8,9,10,11,12,13,14,15,16,17,18,19,20,21,22,23,24,25,26,27,28,29,30,31,32,33,34,35,36,37,38,39,40,41,42,43,44,45,46,47,48,49,50,51,52,53,54,55,56,57,58,59,60,61,62,63

FILE NAME: HDGN:d2 22400736a:tcslgl.dgn

STATE PROJECT NUMBER	SHEET NO.
2240-07-70	2.37

TRAFFIC CONTROL
STAGE 1

STH 36 RACINE COUNTY



GENERAL NOTES

1. ALL SIGNS ARE 48" X 48" UNLESS OTHERWISE NOTED.
2. THE EXACT NUMBER, LOCATION, AND SPACING OF ALL SIGNS AND DEVICES (AND THE LOCATION OF ALL FLAGGERS) SHALL BE ADJUSTED TO FIT FIELD CONDITIONS AS DIRECTED BY THE ENGINEER.
3. WHEN A SIDE ROAD OR RAMP INTERSECTS THE FACILITY ON WHICH THE WORK IS BEING PERFORMED. ADDITIONAL TRAFFIC CONTROLS SHALL BE PROVIDED AS SPECIFIED IN THE PLANS AND/OR THE SPECIAL PROVISIONS OR AS DIRECTED BY THE ENGINEER.
4. "WO" SIGNS ARE THE SAME AS "W" SIGNS EXCEPT THE BACKGROUND IS ORANGE.

LEGEND

- WORK ZONE
- TYPE III BARRICADE, 8'-LONG WITH TYPE "A" WARNING LIGHTS
- TRAFFIC CONTROL DRUM
- TRAFFIC CONTROL DRUM WITH TYPE "C" WARNING LIGHT
- TEMORARY SIGN ON WOOD SUPPORT (TYPE "A" LIGHT ON WARNING SIGNS)
- TYPE "A" WARNING LIGHT
- TEMPORARY RAISED PAVEMENT MARKERS
- TEMPORARY PAVEMENT MARKING
  - ① 4-INCH WHITE EDGELINE
  - ② 4-INCH DOUBLE YELLOW CENTERLINE

LEVELS ON - 1,2,3,4,5,6,7,8,9,10,11,12,13,14,15,16,17,18,19,20,21,22,23,24,25,26,27,28,29,30,31,32,33,34,35,36,37,38,39,40,41,42,43,44,45,46,47,48,49,50,51,52,53,54,55,56,57,58,59,60,61,62,63

FILE NAME: HDGN:D2 2240073GS:TCSIG2.DGN

STATE PROJECT NUMBER	SHEET NO.
2240-07-70	2.38

TRAFFIC CONTROL
STAGE 1

STH 36 RACINE COUNTY

PI STATION	=	113+90.28, 43.10'RT
DELTA	=	4°34'25.57"
DEGREE OF CURVE	=	1° 0' 0.00"
TANGENT	=	228.81
LENGTH	=	457.38
RADIUS	=	5729.58
PC STATION	=	111+61.47, 24.95'RT
PT STATION	=	116+18.85, 43.11'RT

LEGEND

- WORK TO BE COMPLETED PRIOR TO STAGE II
- WORK ZONE
- TYPE III BARRICADE, 8'-LONG WITH TYPE "A" WARNING LIGHTS
- TRAFFIC CONTROL DRUM
- TRAFFIC CONTROL DRUM WITH TYPE "C" WARNING LIGHT
- TEMORARY SIGN ON WOOD SUPPORT (TYPE "A" LIGHT ON WARNING SIGNS)
- TYPE "A" WARNING LIGHT
- TEMPORARY RAISED PAVEMENT MARKERS
- TEMPORARY PAVEMENT MARKING
  - ① 4-INCH WHITE EDGELINE
  - ② 4-INCH DOUBLE YELLOW CENTERLINE

SIGN

PC 111+61.47

PT 116+18.85

110+00 115+00 120+00

110+00 115+00

100' TYP. 25' 100' TYP.

R11-2
48" X 30"
ROAD CLOSED

TYPE III BARRICADE

ROAD WORK NEXT 12 MILES

G20-1
60"X24"

FOX RIVER

GENERAL NOTES

1. ALL SIGNS ARE 48" X 48" UNLESS OTHERWISE NOTED.
2. THE EXACT NUMBER, LOCATION, AND SPACING OF ALL SIGNS AND DEVICES (AND THE LOCATION OF ALL FLAGGERS) SHALL BE ADJUSTED TO FIT FIELD CONDITIONS AS DIRECTED BY THE ENGINEER.
3. WHEN A SIDE ROAD OR RAMP INTERSECTS THE FACILITY ON WHICH THE WORK IS BEING PERFORMED, ADDITIONAL TRAFFIC CONTROLS SHALL BE PROVIDED AS SPECIFIED IN THE PLANS AND/OR THE SPECIAL PROVISIONS OR AS DIRECTED BY THE ENGINEER.
4. "WO" SIGNS ARE THE SAME AS "W" SIGNS EXCEPT THE BACKGROUND IS ORANGE.

LEVELS ON - 1,2,3,4,5,6,7,8,9,10,11,12,13,14,15,16,17,18,19,20,21,22,23,24,25,26,27,28,29,30,31,32,33,34,35,36,37,38,39,40,41,42,43,44,45,46,47,48,49,50,51,52,53,54,55,56,57,58,59,60,61,62,63

FILE NAME: HDGN:d2 2240073&s:tcslg3.dgn

STATE PROJECT NUMBER	SHEET
2240-07-70	2.39
TRAFFIC CONTROL STAGE II	
STH 36	RACINE COUNTY

LEGEND

- ✱ TRAFFIC CONTROL WILL REMAIN IN PLACE AFTER COMPLETION OF PROJECT.
- WORK ZONE
- TYPE III BARRICADE, 8'-LONG WITH TYPES "A" WARNING LIGHTS
- TRAFFIC CONTROL DRUM
- TRAFFIC CONTROL DRUM WITH TYPE "C" WARNING LIGHT
- TEMORARY SIGN ON WOOD SUPPORT (TYPE "A" LIGHT ON WARNING SIGNS)
- ⊗ TYPE "A" WARNING LIGHT
- TANKS TEMPORARY RAISED PAVEMENT MARKERS
- TEMPORARY PAVEMENT MARKING
  - ① 4-INCH WHITE EDGELINE
  - ② 4-INCH DOUBLE YELLOW CENTERLINE

GENERAL NOTES

1. ALL SIGNS ARE 48" X 48" UNLESS OTHERWISE NOTED.
2. THE EXACT NUMBER, LOCATION, AND SPACING OF ALL SIGNS AND DEVICES (AND THE LOCATION OF ALL FLAGGERS) SHALL BE ADJUSTED TO FIT FIELD CONDITIONS AS DIRECTED BY THE ENGINEER.
3. WHEN A SIDE ROAD OR RAMP INTERSECTS THE FACILITY ON WHICH THE WORK IS BEING PERFORMED, ADDITIONAL TRAFFIC CONTROLS SHALL BE PROVIDED AS SPECIFIED IN THE PLANS AND/OR THE SPECIAL PROVISIONS OR AS DIRECTED BY THE ENGINEER.
4. "WO" SIGNS ARE THE SAME AS "W" SIGNS EXCEPT THE BACKGROUND IS ORANGE.

END ROAD WORK ✱G20-2 60" X 24"

ROAD WORK AHEAD ✱W20-1

ROAD WORK 1000 FT ✱W20-1

ROAD WORK 500 FT ✱W20-1

WO1-6 48" X 24" ✱TYPE III BARRICADE

R11-2 48" X 30" ROAD CLOSED ✱TYPE III BARRICADE

ROAD WORK AHEAD ✱W20-1

END ROAD WORK ✱G20-2A 48" X 24"

PI STATION	88+21.49 (TEMP. CROSSOVER)
DELTA	4°23'30.64"RT
DEGREE OF CURVE	1°54'35.49"
TANGENT	115.03
LENGTH	229.96
RADIUS	3000.00
PC STATION	87+06.45 (TEMP. CROSSOVER)
PT STATION	89+36.41 (TEMP. CROSSOVER)

STATION ON CROSS-OVER	DISTANCE FROM ℄ OF CROSS-OVER TO ℄
81+36.03	.00
81+50	.00
82+00	.83 RT
82+50	.76 RT
83+00	1.64 RT
83+50	2.83 RT
84+00	4.35 RT
84+50	6.20 RT
85+00	8.30 RT
85+50	10.59 RT
86+00	13.72 RT
86+50	16.88 RT
87+00	20.36 RT
87+50	23.86 RT
88+00	26.87 RT
88+50	29.35 RT
89+00	31.33 RT
89+34.85	32.08 RT

N 37° 5' 43" E

N 41° 29' 14" E

PC 87+06.45

PT 89+36.41

RC 69+56.92

PT 12+70.38

80+00 85+00 90+00

500' 500' 500' 500' 70 00 25' TYP. 100' TYP.

ABANDONED RAILROAD BED

FOX RIVER

DOCK

CANT.

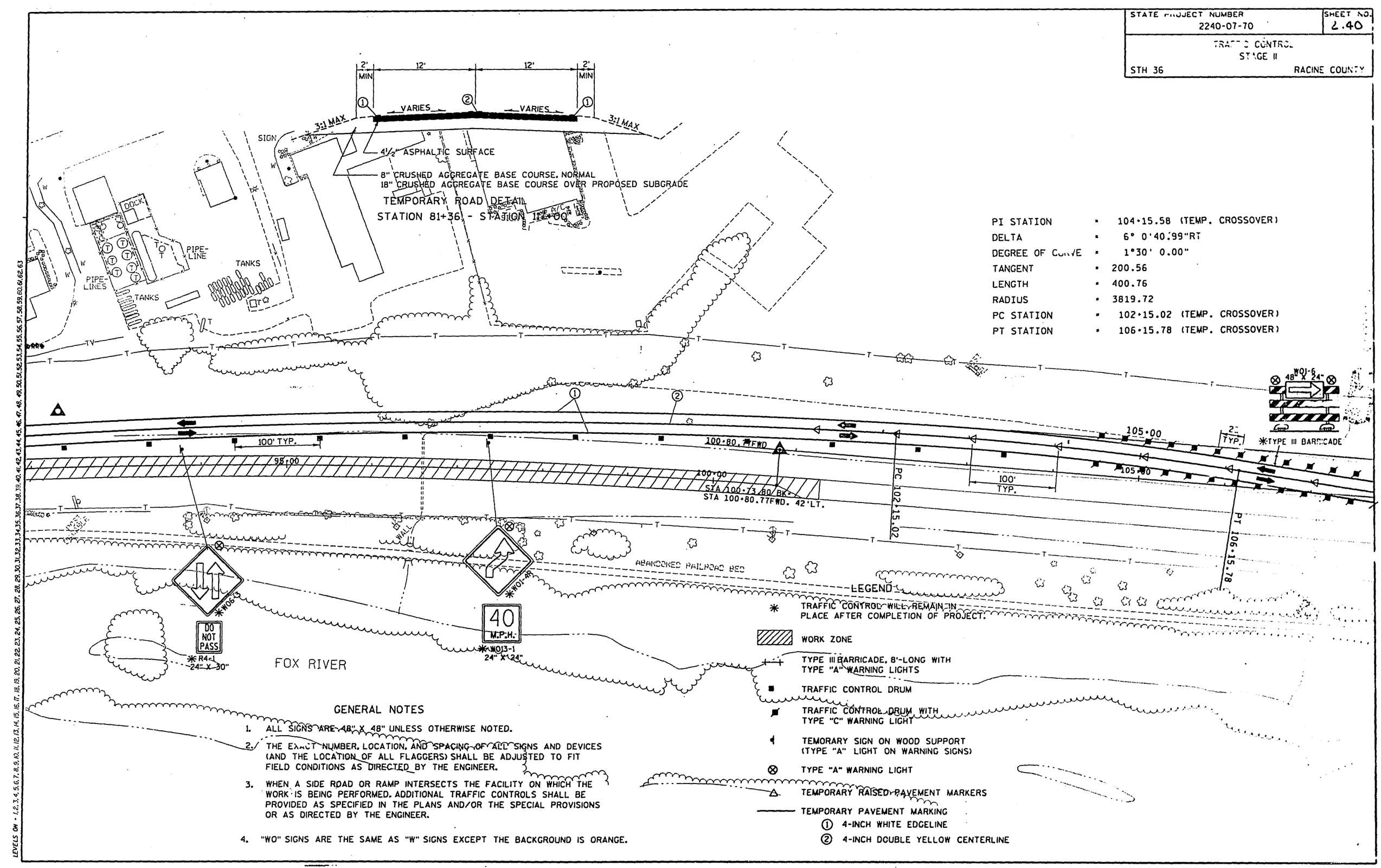
SIGN POST

LEVELS ON • 1,2,3,4,5,6,7,8,9,10,11,12,13,14,15,16,17,18,19,20,21,22,23,24,25,26,27,28,29,30,31,32,33,34,35,36,37,38,39,40,41,42,43,44,45,46,47,48,49,50,51,52,53,54,55,56,57,58,59,60,61,62,63

FILE NAME: HDGN:d2 2240073&s:tca2g1.dgn

WISDOT/CADDS SHEET 42

STATE PROJECT NUMBER	SHEET NO.
2240-07-70	2.40
TRAFFIC CONTROL STAGE II	
STH 36	RACINE COUNTY



PI STATION	=	104+15.58 (TEMP. CROSSOVER)
DELTA	=	6° 0'40.99"RT
DEGREE OF CURVE	=	1°30' 0.00"
TANGENT	=	200.56
LENGTH	=	400.76
RADIUS	=	3819.72
PC STATION	=	102+15.02 (TEMP. CROSSOVER)
PT STATION	=	106+15.78 (TEMP. CROSSOVER)

GENERAL NOTES

1. ALL SIGNS ARE 48" X 48" UNLESS OTHERWISE NOTED.
2. THE EXACT NUMBER, LOCATION, AND SPACING OF ALL SIGNS AND DEVICES (AND THE LOCATION OF ALL FLAGGERS) SHALL BE ADJUSTED TO FIT FIELD CONDITIONS AS DIRECTED BY THE ENGINEER.
3. WHEN A SIDE ROAD OR RAMP INTERSECTS THE FACILITY ON WHICH THE WORK IS BEING PERFORMED, ADDITIONAL TRAFFIC CONTROLS SHALL BE PROVIDED AS SPECIFIED IN THE PLANS AND/OR THE SPECIAL PROVISIONS OR AS DIRECTED BY THE ENGINEER.
4. "WO" SIGNS ARE THE SAME AS "W" SIGNS EXCEPT THE BACKGROUND IS ORANGE.

LEGEND

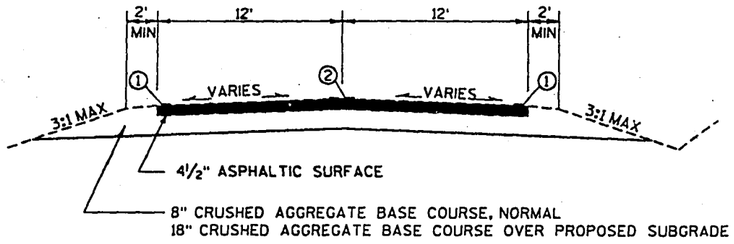
- * TRAFFIC CONTROL WILL REMAIN IN PLACE AFTER COMPLETION OF PROJECT.
- WORK ZONE
- TYPE III BARRICADE, 8'-LONG WITH TYPE "A" WARNING LIGHTS
- TRAFFIC CONTROL DRUM
- TRAFFIC CONTROL DRUM WITH TYPE "C" WARNING LIGHT
- TEMORARY SIGN ON WOOD SUPPORT (TYPE "A" LIGHT ON WARNING SIGNS)
- TYPE "A" WARNING LIGHT
- TEMPORARY RAISED PAVEMENT MARKERS
- TEMPORARY PAVEMENT MARKING
  - ① 4-INCH WHITE EDGELINE
  - ② 4-INCH DOUBLE YELLOW CENTERLINE

LEVELS ON - 1,2,3,4,5,6,7,8,9,10,11,12,13,14,15,16,17,18,19,20,21,22,23,24,25,26,27,28,29,30,31,32,33,34,35,36,37,38,39,40,41,42,43,44,45,46,47,48,49,50,51,52,53,54,55,56,57,58,59,60,61,62,63

STATE PROJECT NUMBER	SHEET NO.
2240-07-70	2,41

TRAFFIC CONTROL
STAGE II

STH 36 RACINE COUNTY

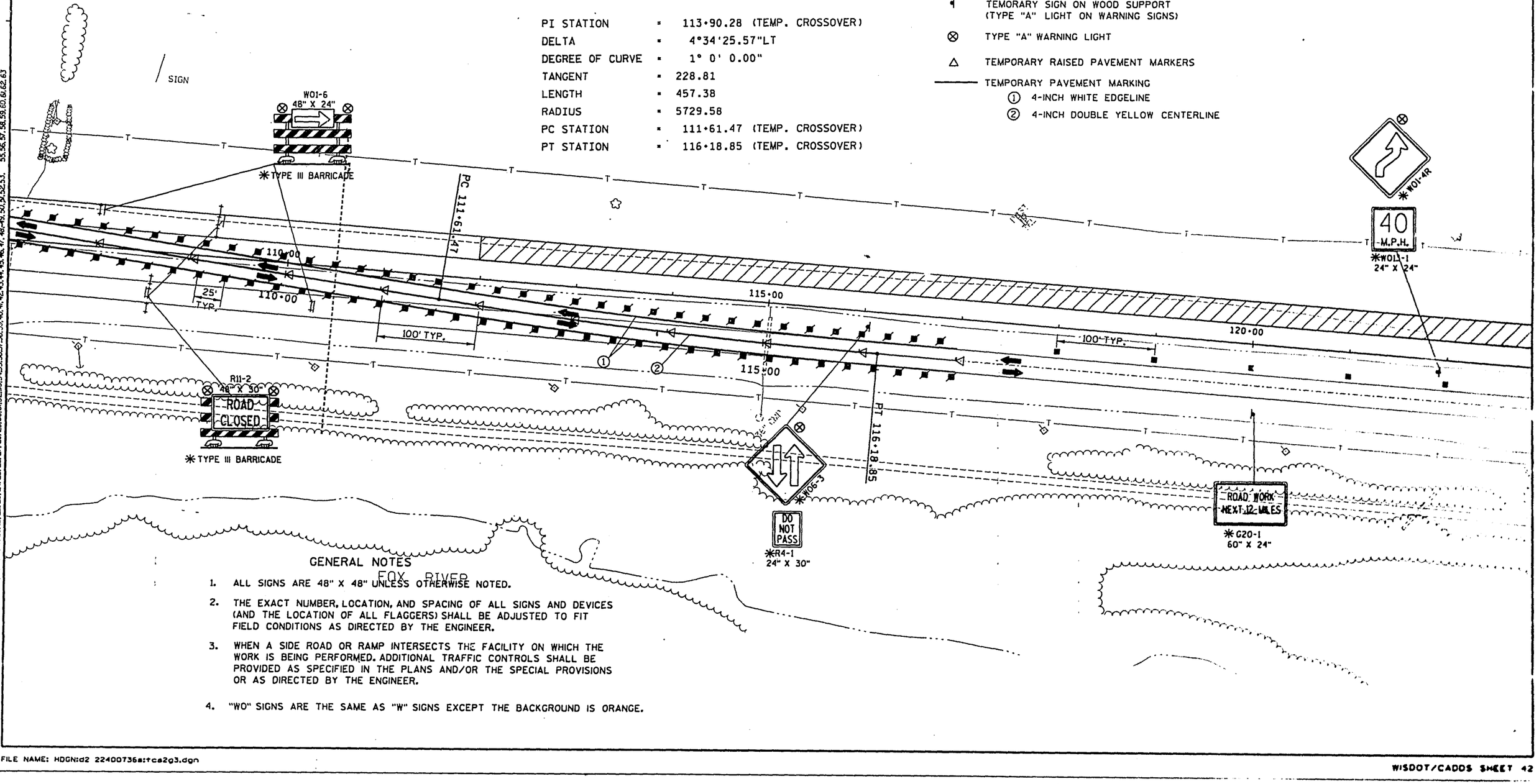


TEMPORARY ROAD DETAIL
STATION 81+36 - STATION 117+00

PI STATION	=	113+90.28 (TEMP. CROSSOVER)
DELTA	=	4°34'25.57"LT
DEGREE OF CURVE	=	1° 0' 0.00"
TANGENT	=	228.81
LENGTH	=	457.38
RADIUS	=	5729.58
PC STATION	=	111+61.47 (TEMP. CROSSOVER)
PT STATION	=	116+18.85 (TEMP. CROSSOVER)

LEGEND

- ✳ TRAFFIC CONTROL WILL REMAIN IN PLACE AFTER COMPLETION OF PROJECT.
- WORK ZONE
- TYPE III BARRICADE, 8'-LONG WITH TYPE "A" WARNING LIGHTS
- TRAFFIC CONTROL DRUM
- TRAFFIC CONTROL DRUM WITH TYPE "C" WARNING LIGHT
- TEMORARY SIGN ON WOOD SUPPORT (TYPE "A" LIGHT ON WARNING SIGNS)
- ⊗ TYPE "A" WARNING LIGHT
- △ TEMPORARY RAISED PAVEMENT MARKERS
- TEMPORARY PAVEMENT MARKING
  - ① 4-INCH WHITE EDGELINE
  - ② 4-INCH DOUBLE YELLOW CENTERLINE



GENERAL NOTES

1. ALL SIGNS ARE 48" X 48" UNLESS OTHERWISE NOTED.
2. THE EXACT NUMBER, LOCATION, AND SPACING OF ALL SIGNS AND DEVICES (AND THE LOCATION OF ALL FLAGGERS) SHALL BE ADJUSTED TO FIT FIELD CONDITIONS AS DIRECTED BY THE ENGINEER.
3. WHEN A SIDE ROAD OR RAMP INTERSECTS THE FACILITY ON WHICH THE WORK IS BEING PERFORMED. ADDITIONAL TRAFFIC CONTROLS SHALL BE PROVIDED AS SPECIFIED IN THE PLANS AND/OR THE SPECIAL PROVISIONS OR AS DIRECTED BY THE ENGINEER.
4. "WO" SIGNS ARE THE SAME AS "W" SIGNS EXCEPT THE BACKGROUND IS ORANGE.

LEVELS ON • 1,2,3,4,5,6,7,8,9,10,11,12,13,14,15,16,17,18,19,20,21,22,23,24,25,26,27,28,29,30,31,32,33,34,35,36,37,38,39,40,41,42,43,44,45,46,47,48,55,56,57,58,59,60,61,62,63

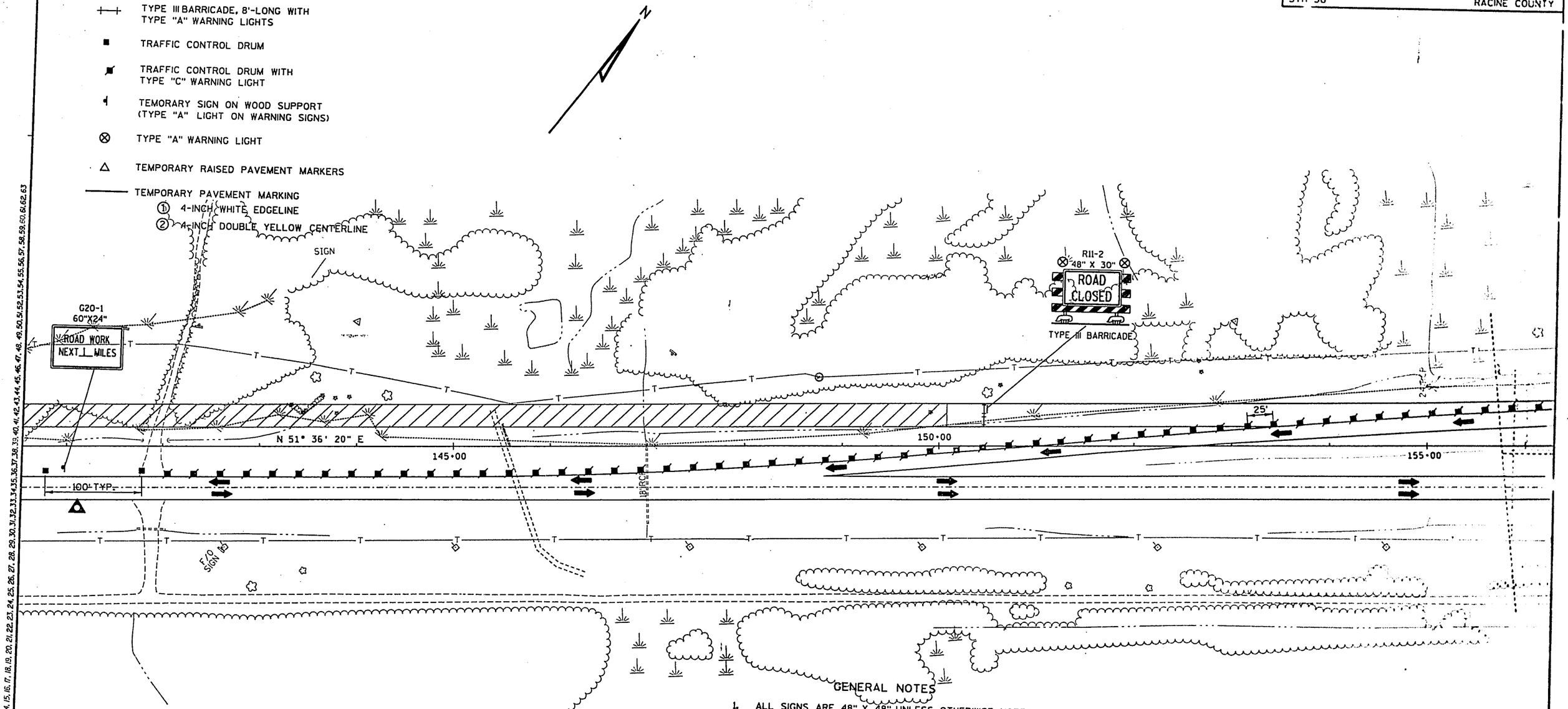
STATE PROJECT NUMBER	SHEET NO.
2240-07-70	2.42

TRAFFIC CONTROL
STAGE 1

STH 36 RACINE COUNTY

LEGEND

- WORK ZONE
- TYPE III BARRICADE, 8'-LONG WITH TYPE "A" WARNING LIGHTS
- TRAFFIC CONTROL DRUM
- TRAFFIC CONTROL DRUM WITH TYPE "C" WARNING LIGHT
- TEMORARY SIGN ON WOOD SUPPORT (TYPE "A" LIGHT ON WARNING SIGNS)
- TYPE "A" WARNING LIGHT
- TEMPORARY RAISED PAVEMENT MARKERS
- TEMPORARY PAVEMENT MARKING
  - ① 4-INCH WHITE EDGELINE
  - ② 4-INCH DOUBLE YELLOW CENTERLINE



GENERAL NOTES

1. ALL SIGNS ARE 48" X 48" UNLESS OTHERWISE NOTED.
2. THE EXACT NUMBER, LOCATION, AND SPACING OF ALL SIGNS AND DEVICES (AND THE LOCATION OF ALL FLAGGERS) SHALL BE ADJUSTED TO FIT FIELD CONDITIONS AS DIRECTED BY THE ENGINEER.
3. WHEN A SIDE ROAD OR RAMP INTERSECTS THE FACILITY ON WHICH THE WORK IS BEING PERFORMED, ADDITIONAL TRAFFIC CONTROLS SHALL BE PROVIDED AS SPECIFIED IN THE PLANS AND/OR THE SPECIAL PROVISIONS OR AS DIRECTED BY THE ENGINEER.
4. "WO" SIGNS ARE THE SAME AS "W" SIGNS EXCEPT THE BACKGROUND IS ORANGE.

LEVELS ON • 1,2,3,4,5,6,7,8,9,10,11,12,13,14,15,16,17,18,19,20,21,22,23,24,25,26,27,28,29,30,31,32,33,34,35,36,37,38,39,40,41,42,43,44,45,46,47,48,49,50,51,52,53,54,55,56,57,58,59,60,61,62,63

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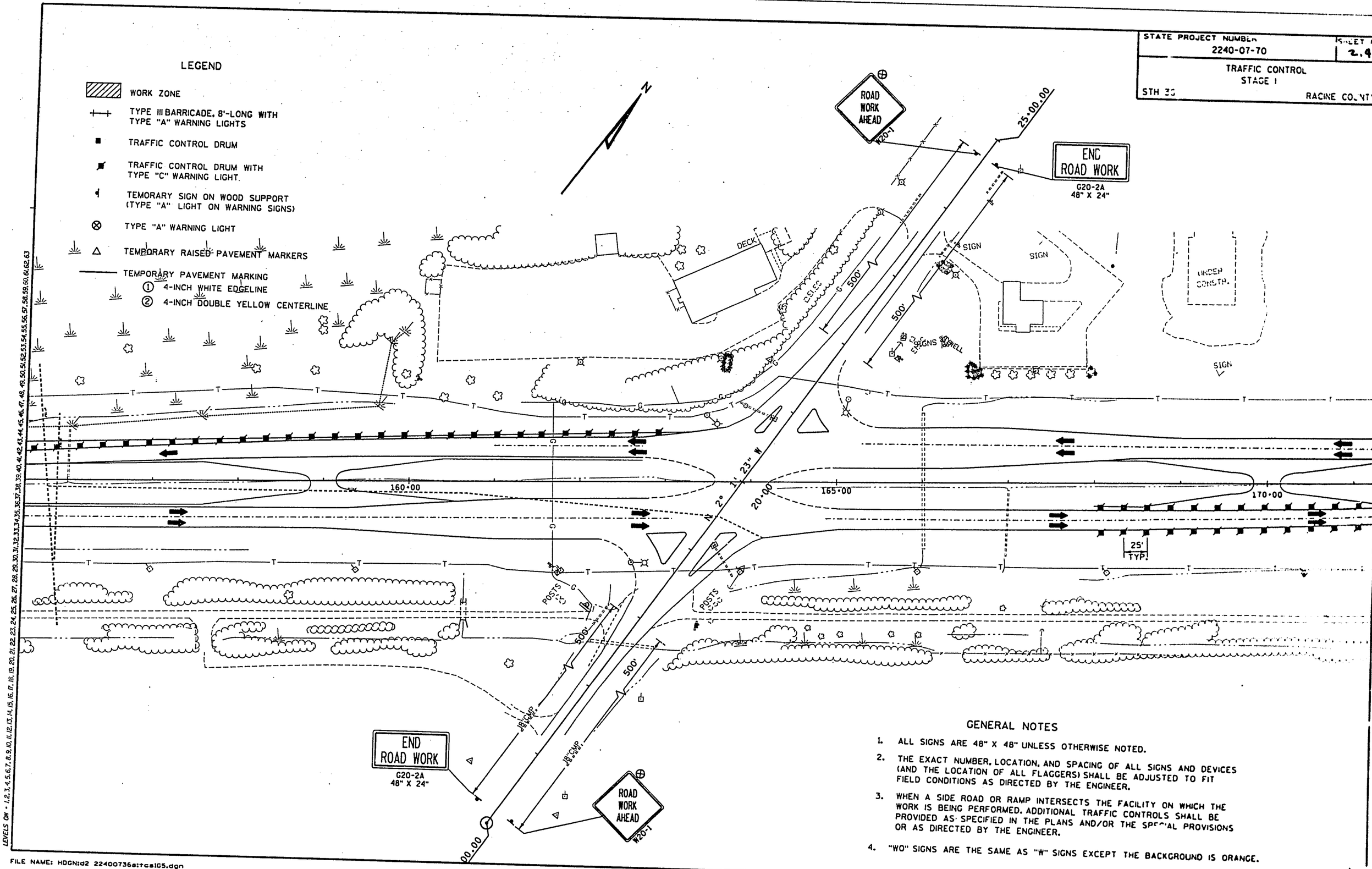
STATE PROJECT NUMBER	SHEET NO.
2240-07-70	2.43

TRAFFIC CONTROL
STAGE 1

STH 38 RACINE COUNTY

LEGEND

- WORK ZONE
- TYPE III BARRICADE, 8'-LONG WITH TYPE "A" WARNING LIGHTS
- TRAFFIC CONTROL DRUM
- TRAFFIC CONTROL DRUM WITH TYPE "C" WARNING LIGHT.
- TEMORARY SIGN ON WOOD SUPPORT (TYPE "A" LIGHT ON WARNING SIGNS)
- TYPE "A" WARNING LIGHT
- TEMPORARY RAISED PAVEMENT MARKERS
- TEMPORARY PAVEMENT MARKING
  - ① 4-INCH WHITE EDGELINE
  - ② 4-INCH DOUBLE YELLOW CENTERLINE



GENERAL NOTES

1. ALL SIGNS ARE 48" X 48" UNLESS OTHERWISE NOTED.
2. THE EXACT NUMBER, LOCATION, AND SPACING OF ALL SIGNS AND DEVICES (AND THE LOCATION OF ALL FLAGGERS) SHALL BE ADJUSTED TO FIT FIELD CONDITIONS AS DIRECTED BY THE ENGINEER.
3. WHEN A SIDE ROAD OR RAMP INTERSECTS THE FACILITY ON WHICH THE WORK IS BEING PERFORMED, ADDITIONAL TRAFFIC CONTROLS SHALL BE PROVIDED AS SPECIFIED IN THE PLANS AND/OR THE SPECIAL PROVISIONS OR AS DIRECTED BY THE ENGINEER.
4. "WO" SIGNS ARE THE SAME AS "W" SIGNS EXCEPT THE BACKGROUND IS ORANGE.

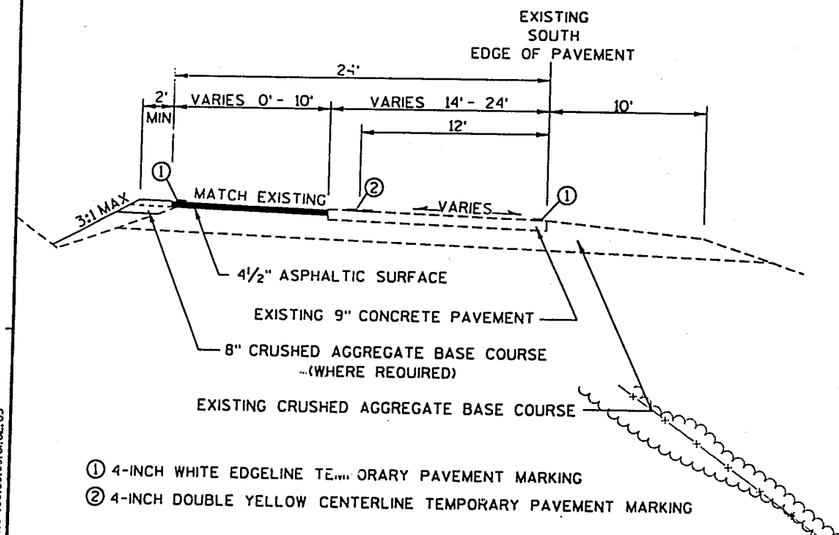
LEVELS ON • 1,2,3,4,5,6,7,8,9,10,11,12,13,14,15,16,17,18,19,20,21,22,23,24,25,26,27,28,29,30,31,32,33,34,35,36,37,38,39,40,41

FILE NAME: HDGN:d2 22400736s:tcs105.dgn

STATE PROJECT NUMBER	SHEET NO.
2240-07-70	2.44

TRAFFIC CONTROL
STAGE I

STH 36 RACINE CO.



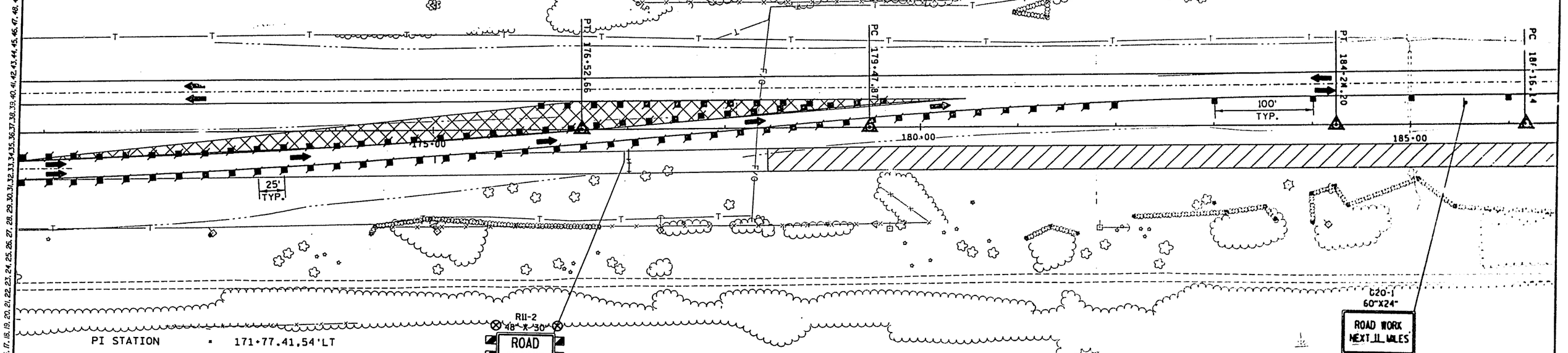
① 4-INCH WHITE EDGELINE TE... ORARY PAVEMENT MARKING
② 4-INCH DOUBLE YELLOW CENTERLINE TEMPORARY PAVEMENT MARKING

TEMPORARY WIDENING STAGE II S.T.H. 36 AT C.T.H. "W"
STATION 167+00 - STATION 184+25

LEGEND

- WORK TO BE COMPLETED PRIOR TO STAGE II
- WORK ZONE
- TYPE III BARRICADE, 8'-LONG WITH TYPE "A" WARNING LIGHTS
- TRAFFIC CONTROL DRUM
- TRAFFIC CONTROL DRUM WITH TYPE "C" WARNING LIGHT
- TEMORARY SIGN ON WOOD SUPPORT (TYPE "A" LIGHT ON WARNING SIGNS)
- TYPE "A" WARNING LIGHT
- TEMPORARY RAISED PAVEMENT MARKERS
- TEMPORARY PAVEMENT MARKING
  - ① 4-INCH WHITE EDGELINE
  - ② 4-INCH DOUBLE YELLOW CENTERLINE

PI STATION	=	181+85.47, 30'LT
DELTA	=	4° 45' 48"LT
DEGREE OF CURVE	=	1°00' 0.00"
TANGENT	=	238.73
LENGTH	=	476.33
RADIUS	=	5729.58
PC STATION	=	179+47.87,10'LT
PT STATION	=	184+24.20,30'LT



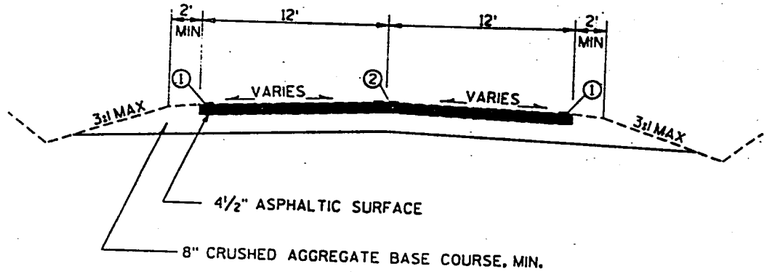
PI STATION	=	171+77.41,54'LT
DELTA	=	4° 45'48"LT
DEGREE OF CURVE	=	0°30' 0.00"
TANGENT	=	477.47
LENGTH	=	952.66
RADIUS	=	11459.16
PC STATION	=	167+00.00,54'RT
PT STATION	=	176+52.66,14'RT

GENERAL NOTES

1. ALL SIGNS ARE 48" X 48" UNLESS OTHERWISE NOTED.
2. THE EXACT NUMBER, LOCATION, AND SPACING OF ALL SIGNS AND DEVICES (AND THE LOCATION OF ALL FLAGGERS) SHALL BE ADJUSTED TO FIT FIELD CONDITIONS AS DIRECTED BY THE ENGINEER.
3. WHEN A SIDE ROAD OR RAMP INTERSECTS THE FACILITY ON WHICH THE WORK IS BEING PERFORMED, ADDITIONAL TRAFFIC CONTROLS SHALL BE PROVIDED AS SPECIFIED IN THE PLANS AND/OR THE SPECIAL PROVISIONS OR AS DIRECTED BY THE ENGINEER.
4. "WO" SIGNS ARE THE SAME AS "W" SIGNS EXCEPT THE BACKGROUND IS ORANGE.

LEVELS ON - 1,2,3,4,5,6,7,8,9,10,11,12,13,14,15,16,17,18,19,20,21,22,23,24,25,26,27,28,29,30,31,32,33,34,35,36,37,38,39,40,41,42,43,44,45,46,47,48,49,50,51,52,53,54,55,56,57,58,59,60,61,62,63

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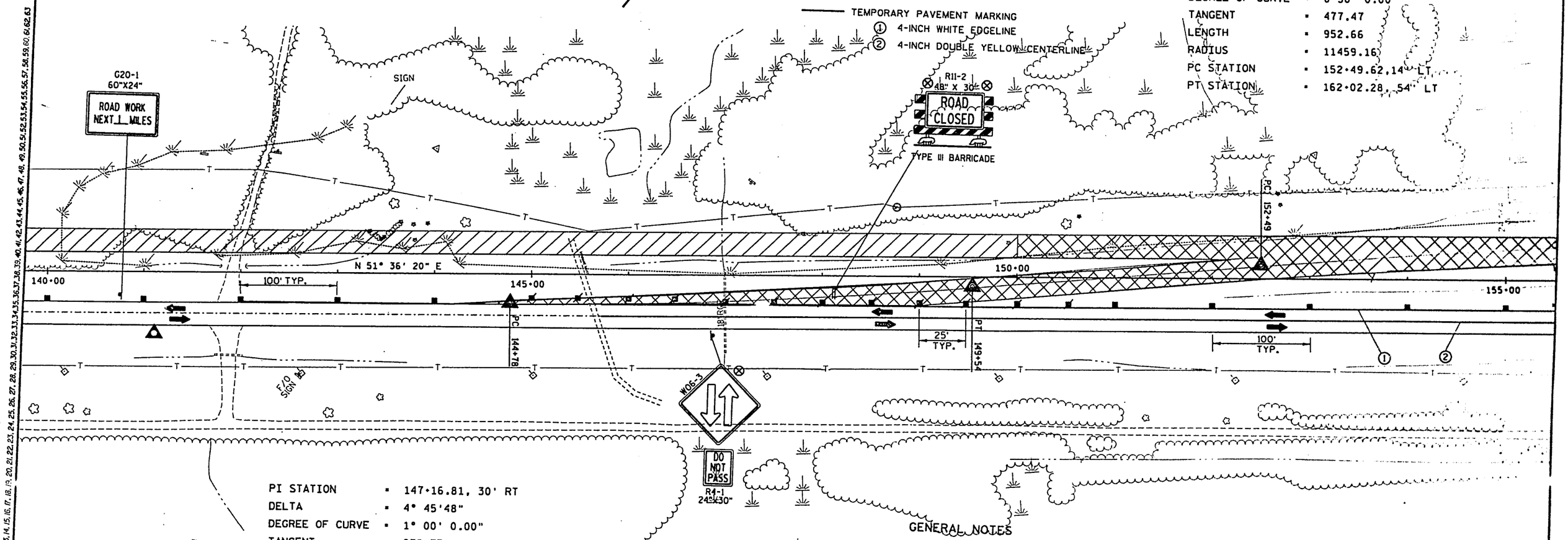


TEMPORARY ROAD DETAIL
STATION 144+75 - STATION 162+00

LEGEND

- WORK TO BE COMPLETED PRIOR TO STAGE III
- WORK ZONE
- TYPE III BARRICADE, 8'-LONG WITH TYPE "A" WARNING LIGHTS
- TRAFFIC CONTROL DRUM
- TRAFFIC CONTROL DRUM WITH TYPE "C" WARNING LIGHT
- TEMORARY SIGN ON WOOD SUPPORT (TYPE "A" LIGHT ON WARNING SIGNS)
- TYPE "A" WARNING LIGHT
- TEMPORARY RAISED PAVEMENT MARKERS
- TEMPORARY PAVEMENT MARKING
  - ① 4-INCH WHITE EDGELINE
  - ② 4-INCH DOUBLE YELLOW CENTERLINE

STATE PROJECT NUMBER
2240-07-70
SHEET 2.4S
TRAFFIC CONTROL
STAGE II
STH 36
RACINE COUNTY



PI STATION	=	147+16.81, 30' RT
DELTA	=	4° 45'48"
DEGREE OF CURVE	=	1° 00' 0.00"
TANGENT	=	238.73'
LENGTH	=	476.33'
RADIUS	=	5729.58'
PC STATION	=	144+78.08, 30' RT
PT STATION	=	149+54.41, 10' RT

PI STATION	=	157+24.81,54' LT
DELTA	=	4° 45'48"
DEGREE OF CURVE	=	0°30' 0.00"
TANGENT	=	477.47
LENGTH	=	952.66
RADIUS	=	11459.16
PC STATION	=	152+49.62,14" LT
PT STATION	=	162+02.28, 54" LT

GENERAL NOTES

1. ALL SIGNS ARE 48" X 48" UNLESS OTHERWISE NOTED.
2. THE EXACT NUMBER, LOCATION, AND SPACING OF ALL SIGNS AND DEVICES (AND THE LOCATION OF ALL FLAGGERS) SHALL BE ADJUSTED TO FIT FIELD CONDITIONS AS DIRECTED BY THE ENGINEER.
3. WHEN A SIDE ROAD OR RAMP INTERSECTS THE FACILITY ON WHICH THE WORK IS BEING PERFORMED, ADDITIONAL TRAFFIC CONTROLS SHALL BE PROVIDED AS SPECIFIED IN THE PLANS AND/OR THE SPECIAL PROVISIONS OR AS DIRECTED BY THE ENGINEER.
4. "WO" SIGNS ARE THE SAME AS "W" SIGNS EXCEPT THE BACKGROUND IS ORANGE.

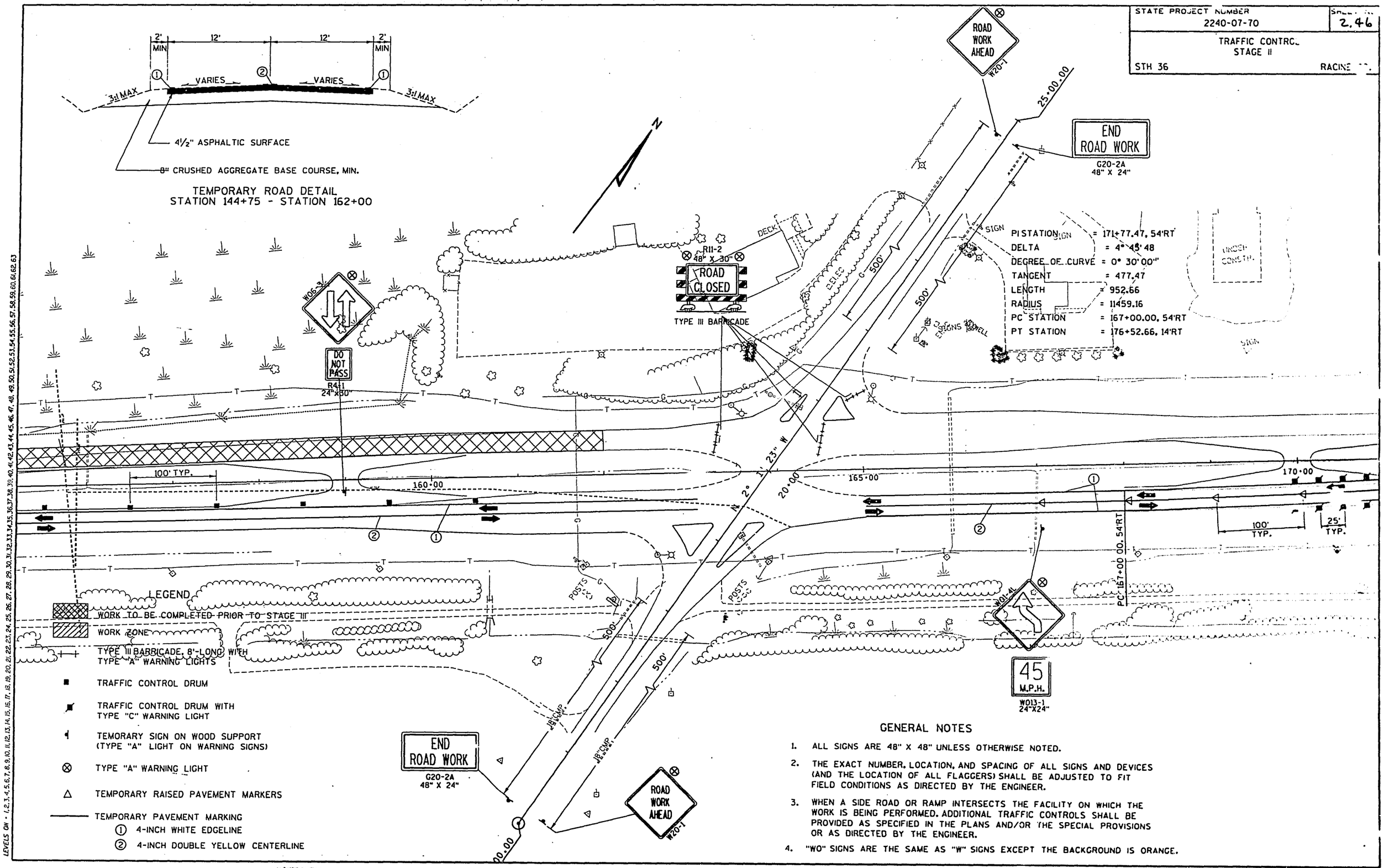
LEVELS ON - 1,2,3,4,5,6,7,8,9,10,11,12,13,14,15,16,17,18,19,20,21,22,23,24,25,26,27,28,29,30,31,32,33,34,35,36,37,38,39,40,41,42,43,44,45,46,47,48,49,50,51,52,53,54,55,56,57,58,59,60,61,62,63

FILE NAME: MDGN:d2 2240073&stcs2g4.dgn

WISDOT/CADDS SHEET 42

STATE PROJECT NUMBER	SHEET NO.
2240-07-70	2.46
TRAFFIC CONTRC. STAGE II	
STH 36	RACINE CO.

TEMPORARY ROAD DETAIL
STATION 144+75 - STATION 162+00



LEGEND

- WORK TO BE COMPLETED PRIOR TO STAGE III
- WORK ZONE
- TYPE III BARRICADE, 8'-LONG WITH TYPE "A" WARNING LIGHTS
- TRAFFIC CONTROL DRUM
- TRAFFIC CONTROL DRUM WITH TYPE "C" WARNING LIGHT
- TEMORARY SIGN ON WOOD SUPPORT (TYPE "A" LIGHT ON WARNING SIGNS)
- TYPE "A" WARNING LIGHT
- TEMPORARY RAISED PAVEMENT MARKERS
- TEMPORARY PAVEMENT MARKING
  - ① 4-INCH WHITE EDGELINE
  - ② 4-INCH DOUBLE YELLOW CENTERLINE

GENERAL NOTES

1. ALL SIGNS ARE 48" X 48" UNLESS OTHERWISE NOTED.
2. THE EXACT NUMBER, LOCATION, AND SPACING OF ALL SIGNS AND DEVICES (AND THE LOCATION OF ALL FLAGGERS) SHALL BE ADJUSTED TO FIT FIELD CONDITIONS AS DIRECTED BY THE ENGINEER.
3. WHEN A SIDE ROAD OR RAMP INTERSECTS THE FACILITY ON WHICH THE WORK IS BEING PERFORMED, ADDITIONAL TRAFFIC CONTROLS SHALL BE PROVIDED AS SPECIFIED IN THE PLANS AND/OR THE SPECIAL PROVISIONS OR AS DIRECTED BY THE ENGINEER.
4. "WO" SIGNS ARE THE SAME AS "W" SIGNS EXCEPT THE BACKGROUND IS ORANGE.

LEVELS ON - 1, 2, 3, 4, 5, 6, 7, 8, 9, 10, 11, 12, 13, 14, 15, 16, 17, 18, 19, 20, 21, 22, 23, 24, 25, 26, 27, 28, 29, 30, 31, 32, 33, 34, 35, 36, 37, 38, 39, 40, 41, 42, 43, 44, 45, 46, 47, 48, 49, 50, 51, 52, 53, 54, 55, 56, 57, 58, 59, 60, 61, 62, 63

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WISDOT/CADDS SHEET 42

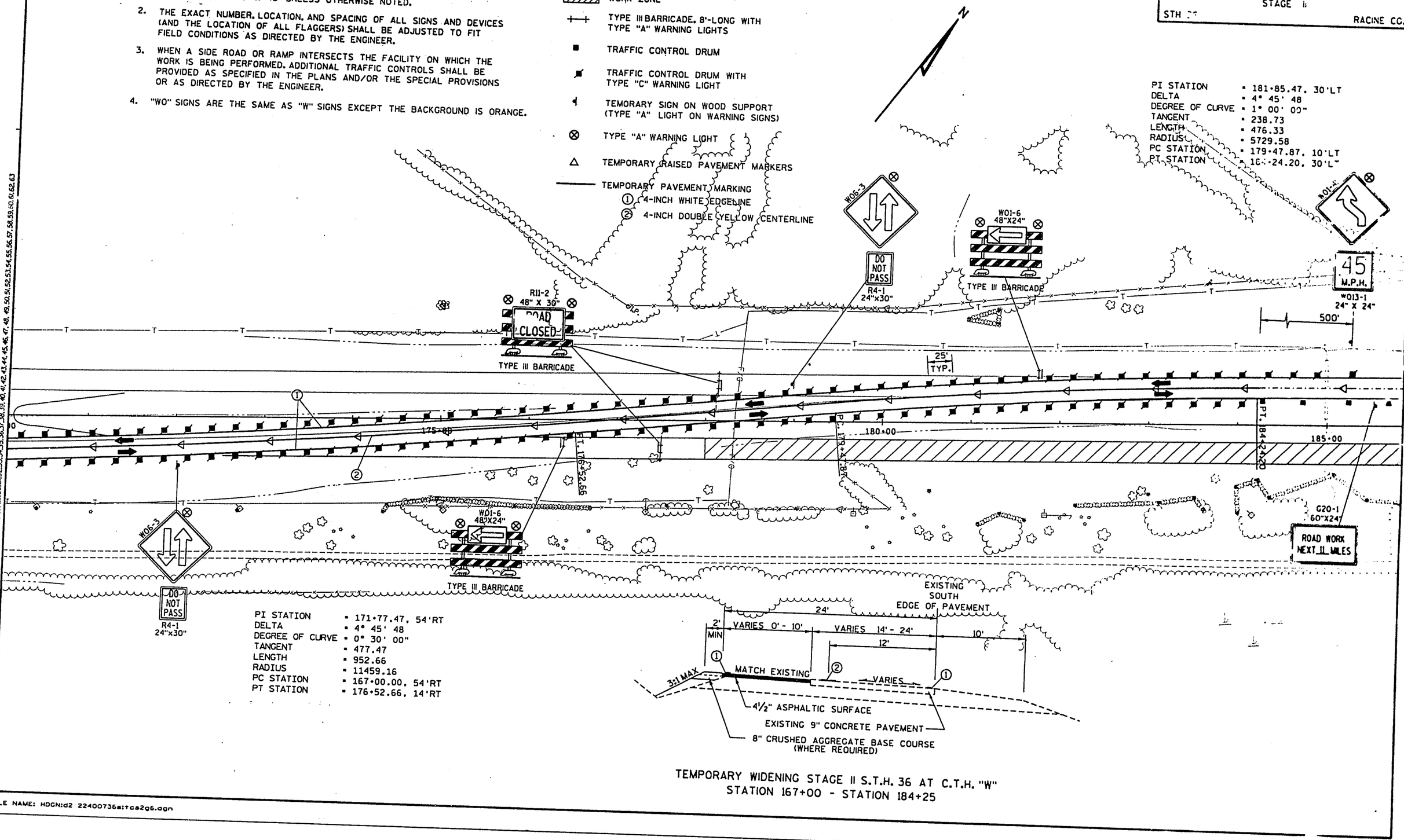
STATE PROJECT NUMBER	SHEET NO.
2240-07-70	2.47
TRAFFIC CONTROL STAGE II	
STH 36	RACINE CO.

GENERAL NOTES

1. ALL SIGNS ARE 48" X 48" UNLESS OTHERWISE NOTED.
2. THE EXACT NUMBER, LOCATION, AND SPACING OF ALL SIGNS AND DEVICES (AND THE LOCATION OF ALL FLAGGERS) SHALL BE ADJUSTED TO FIT FIELD CONDITIONS AS DIRECTED BY THE ENGINEER.
3. WHEN A SIDE ROAD OR RAMP INTERSECTS THE FACILITY ON WHICH THE WORK IS BEING PERFORMED, ADDITIONAL TRAFFIC CONTROLS SHALL BE PROVIDED AS SPECIFIED IN THE PLANS AND/OR THE SPECIAL PROVISIONS OR AS DIRECTED BY THE ENGINEER.
4. "WO" SIGNS ARE THE SAME AS "W" SIGNS EXCEPT THE BACKGROUND IS ORANGE.

LEGEND

- WORK ZONE
- TYPE III BARRICADE, 8'-LONG WITH TYPE "A" WARNING LIGHTS
- TRAFFIC CONTROL DRUM
- TRAFFIC CONTROL DRUM WITH TYPE "C" WARNING LIGHT
- TEMORARY SIGN ON WOOD SUPPORT (TYPE "A" LIGHT ON WARNING SIGNS)
- TYPE "A" WARNING LIGHT
- TEMPORARY RAISED PAVEMENT MARKERS
- TEMPORARY PAVEMENT MARKING
  - (1) 4-INCH WHITE EDGELINE
  - (2) 4-INCH DOUBLE YELLOW CENTERLINE



PI STATION	= 171+77.47, 54'RT
DELTA	= 4° 45' 48
DEGREE OF CURVE	= 0° 30' 00"
TANGENT	= 477.47
LENGTH	= 952.66
RADIUS	= 11459.16
PC STATION	= 167+00.00, 54'RT
PT STATION	= 176+52.66, 14'RT

PI STATION	= 181+85.47, 30'LT
DELTA	= 4° 45' 48
DEGREE OF CURVE	= 1° 00' 00"
TANGENT	= 238.73
LENGTH	= 476.33
RADIUS	= 5729.58
PC STATION	= 179+47.87, 10'LT
PT STATION	= 184+24.20, 30'LT

TEMPORARY WIDENING STAGE II S.T.H. 36 AT C.T.H. "W"
STATION 167+00 - STATION 184+25

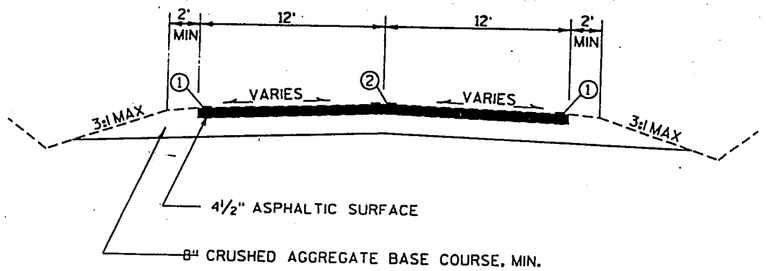
PLOT SCALE: 1
LEVELS ON - 1,2,3,4,5,6,7,8,9,10,11,12,13,14,15,16,17,18,19,20,21,22,23,24,25,26,27,28,29,30,31,32,33,34,35,36,37,38,39,40,41,42,43,44,45,46,47,48,49,50,51,52,53,54,55,56,57,58,59,60,61,62,63

FILE NAME: HDGN:d2 22400736sitca2g6.dgn

STATE PROJECT NUMBER	SHEET NO.
2240-07-70	2.48

TRAFFIC CONTROL
STAGE III

STH 36 — RACINE COUNTY

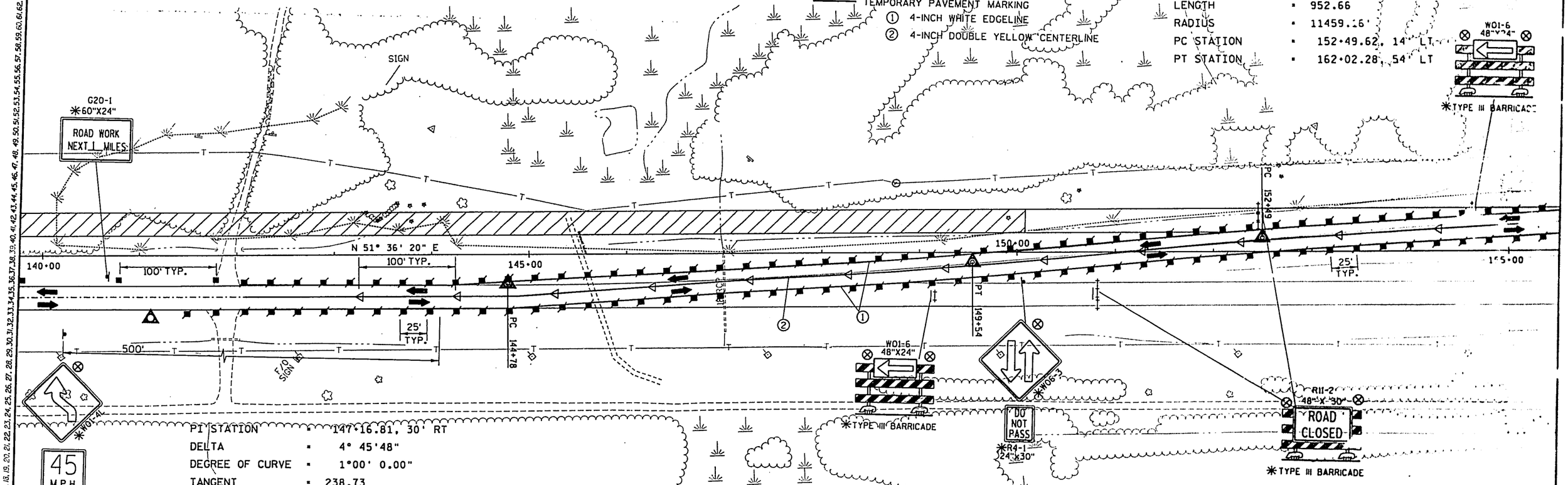


TEMPORARY ROAD DETAIL
STATION 144+75 - STATION 162+00

LEGEND

- ✳ TRAFFIC CONTROL WILL REMAIN IN PLACE AFTER COMPLETION OF PROJECT.
- WORK ZONE
- TYPE III BARRICADE, 8'-LONG WITH TYPE "A" WARNING LIGHTS
- TRAFFIC CONTROL DRUM
- TRAFFIC CONTROL DRUM WITH TYPE "C" WARNING LIGHT
- TEMORARY SIGN ON WOOD SUPPORT (TYPE "A" LIGHT ON WARNING SIGNS)
- ⊗ TYPE "A" WARNING LIGHT
- △ TEMPORARY RAISED PAVEMENT MARKERS
- TEMPORARY PAVEMENT MARKING
  - ① 4-INCH WHITE EDGELINE
  - ② 4-INCH DOUBLE YELLOW CENTERLINE

PI STATION	=	157+24.81, 54' LT
DELTA	=	4° 45'48"
DEGREE OF CURVE	=	0°30' 0.00"
TANGENT	=	477.47'
LENGTH	=	952.66
RADIUS	=	11459.16'
PC STATION	=	152+49.62, 14' LT
PT STATION	=	162+02.28, 54' LT



PI STATION	=	147+16.81, 30' RT
DELTA	=	4° 45'48"
DEGREE OF CURVE	=	1°00' 0.00"
TANGENT	=	238.73
LENGTH	=	476.33
RADIUS	=	5729.58
PC STATION	=	144+78.08, 30' RT
PT STATION	=	149+54.41, 10' RT

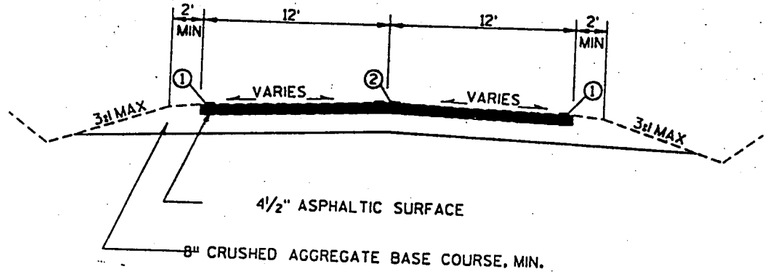
GENERAL NOTES

1. ALL SIGNS ARE 48" X 48" UNLESS OTHERWISE NOTED.
2. THE EXACT NUMBER, LOCATION, AND SPACING OF ALL SIGNS AND DEVICES (AND THE LOCATION OF ALL FLAGGERS) SHALL BE ADJUSTED TO FIT FIELD CONDITIONS AS DIRECTED BY THE ENGINEER.
3. WHEN A SIDE ROAD OR RAMP INTERSECTS THE FACILITY ON WHICH THE WORK IS BEING PERFORMED. ADDITIONAL TRAFFIC CONTROLS SHALL BE PROVIDED AS SPECIFIED IN THE PLANS AND/OR THE SPECIAL PROVISIONS OR AS DIRECTED BY THE ENGINEER.
4. "WO" SIGNS ARE THE SAME AS "W" SIGNS EXCEPT THE BACKGROUND IS ORANGE.

LEVELS ON • 1,2,3,4,5,6,7,8,9,10,11,12,13,14,15,16,17,18,19,20,21,22,23,24,25,26,27,28,29,30,31,32,33,34,35,36,37,38,39,40,41,42,43,44,45,46,47,48,49,50,51,52,53,54,55,56,57,58,59,60,61,62,63

FILE NAME: HDGN:d2 22400736stcs3g1.dgn

STATE PROJECT NUMBER	SHEET NO.
2240-07-70	2.49
TRAFFIC CONTROL STAGE III	
STH 36	ADAMS CO.

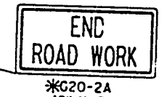


TEMPORARY ROAD DETAIL
STATION 144+75 - STATION 162+00





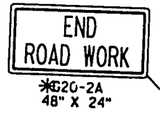








*TYPE III BARRICADE





GENERAL NOTES

1. ALL SIGNS ARE 48" X 48" UNLESS OTHERWISE NOTED.
2. THE EXACT NUMBER, LOCATION, AND SPACING OF ALL SIGNS AND DEVICES (AND THE LOCATION OF ALL FLAGGERS) SHALL BE ADJUSTED TO FIT FIELD CONDITIONS AS DIRECTED BY THE ENGINEER.
3. WHEN A SIDE ROAD OR RAMP INTERSECTS THE FACILITY ON WHICH THE WORK IS BEING PERFORMED. ADDITIONAL TRAFFIC CONTROLS SHALL BE PROVIDED AS SPECIFIED IN THE PLANS AND/OR THE SPECIAL PROVISIONS OR AS DIRECTED BY THE ENGINEER.
4. "WO" SIGNS ARE THE SAME AS "W" SIGNS EXCEPT THE BACKGROUND IS ORANGE.

LEGEND

- TRAFFIC CONTROL WILL REMAIN IN PLACE AFTER COMPLETION OF PROJECT.
- WORK ZONE
- TYPE III BARRICADE, 8'-LONG WITH TYPE "A" WARNING LIGHTS
- TRAFFIC CONTROL DRUM
- TRAFFIC CONTROL DRUM WITH TYPE "C" WARNING LIGHT
- TEMORARY SIGN ON WOOD SUPPORT (TYPE "A" LIGHT ON WARNING SIGNS)
- TYPE "A" WARNING LIGHT
- TEMPORARY RAISED PAVEMENT MARKERS
- TEMPORARY PAVEMENT MARKING
  - ① 4-INCH WHITE EDGELINE
  - ② 4-INCH DOUBLE YELLOW CENTERLINE

LEVELS ON - 1,2,3,4,5,6,7,8,9,10,11,12,13,14,15,16,17,18,19,20,21,22,23,24,25,26,27,28,29,30,31,32,33,34,35,36,37,38,39,43,44,45,46,47,48,49,50,51,52,53,54,55,56,57,58,59,60,61,62,63

FILE NAME: HDGN:d2 2240073&a:tca3g2.dgn

WISDOT/CADDS SHEET 42

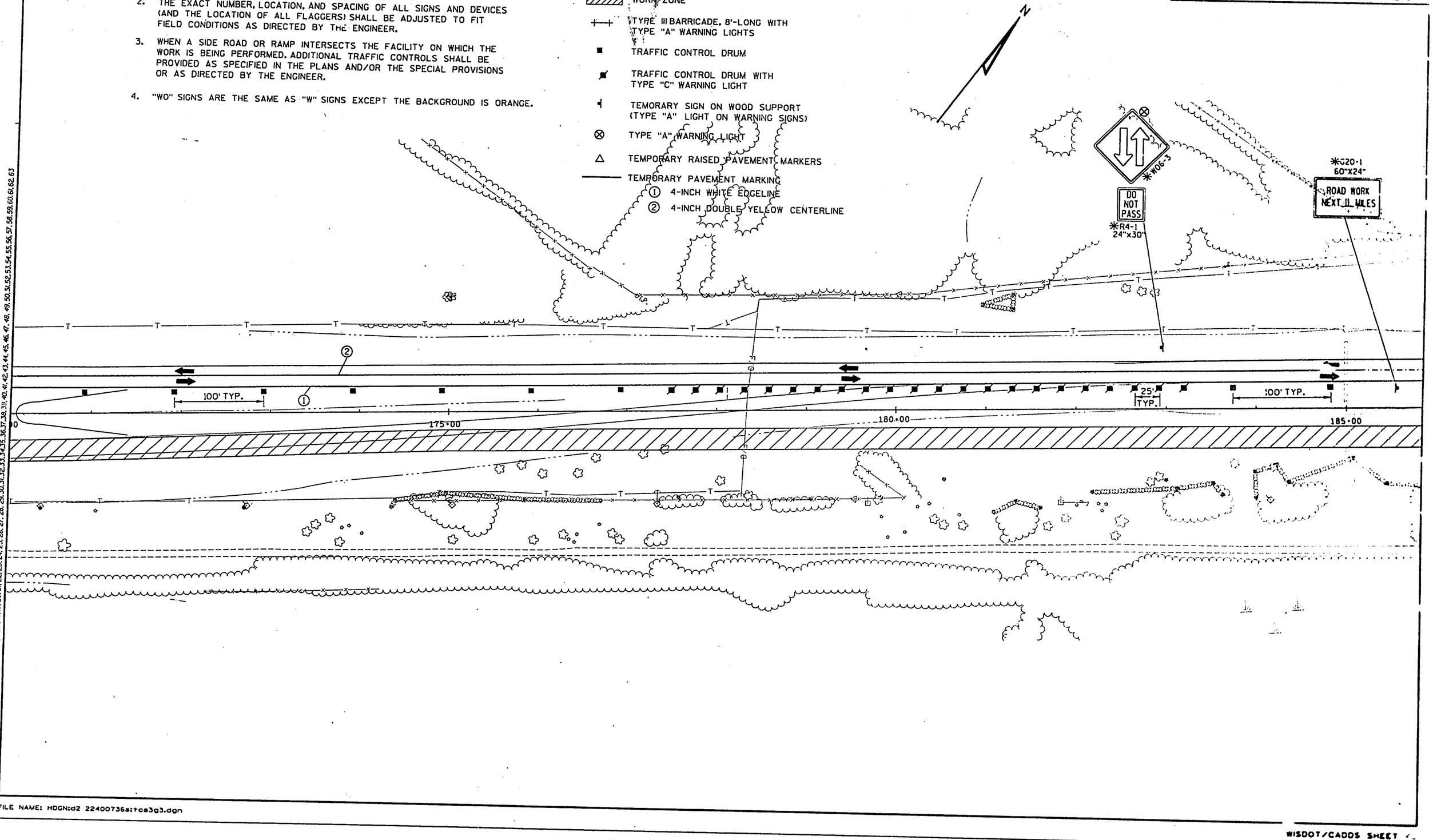
STATE PROJECT NUMBER	SHEET NO.
2240-07-70	2.50
TRAFFIC CONTROL STAGE III	
STH 36	RACINE CO.

GENERAL NOTES

1. ALL SIGNS ARE 48" X 48" UNLESS OTHERWISE NOTED.
2. THE EXACT NUMBER, LOCATION, AND SPACING OF ALL SIGNS AND DEVICES (AND THE LOCATION OF ALL FLAGGERS) SHALL BE ADJUSTED TO FIT FIELD CONDITIONS AS DIRECTED BY THE ENGINEER.
3. WHEN A SIDE ROAD OR RAMP INTERSECTS THE FACILITY ON WHICH THE WORK IS BEING PERFORMED, ADDITIONAL TRAFFIC CONTROLS SHALL BE PROVIDED AS SPECIFIED IN THE PLANS AND/OR THE SPECIAL PROVISIONS OR AS DIRECTED BY THE ENGINEER.
4. "WO" SIGNS ARE THE SAME AS "W" SIGNS EXCEPT THE BACKGROUND IS ORANGE.

LEGEND

- ✳ TRAFFIC CONTROL WILL REMAIN IN PLACE AFTER COMPLETION OF PROJECT.
- WORK ZONE
- TYPE III BARRICADE, 8'-LONG WITH TYPE "A" WARNING LIGHTS
- TRAFFIC CONTROL DRUM
- TRAFFIC CONTROL DRUM WITH TYPE "C" WARNING LIGHT
- TEMORARY SIGN ON WOOD SUPPORT (TYPE "A" LIGHT ON WARNING SIGNS)
- ⊗ TYPE "A" WARNING LIGHT
- △ TEMPORARY RAISED PAVEMENT MARKERS
- TEMPORARY PAVEMENT MARKING
  - ① 4-INCH WHITE EDGELINE
  - ② 4-INCH DOUBLE YELLOW CENTERLINE



LEVELS ON • 1,2,3,4,5,6,7,8,9,10,11,12,13,14,15,16,17,18,19,20,21,22,23,24,25,26,27,28,29,30,31,32,33,34,35,36,37,38,39,40,41,42,43,44,45,46,47,48,49,50,51,52,53,54,55,56,57,58,59,60,61,62,63

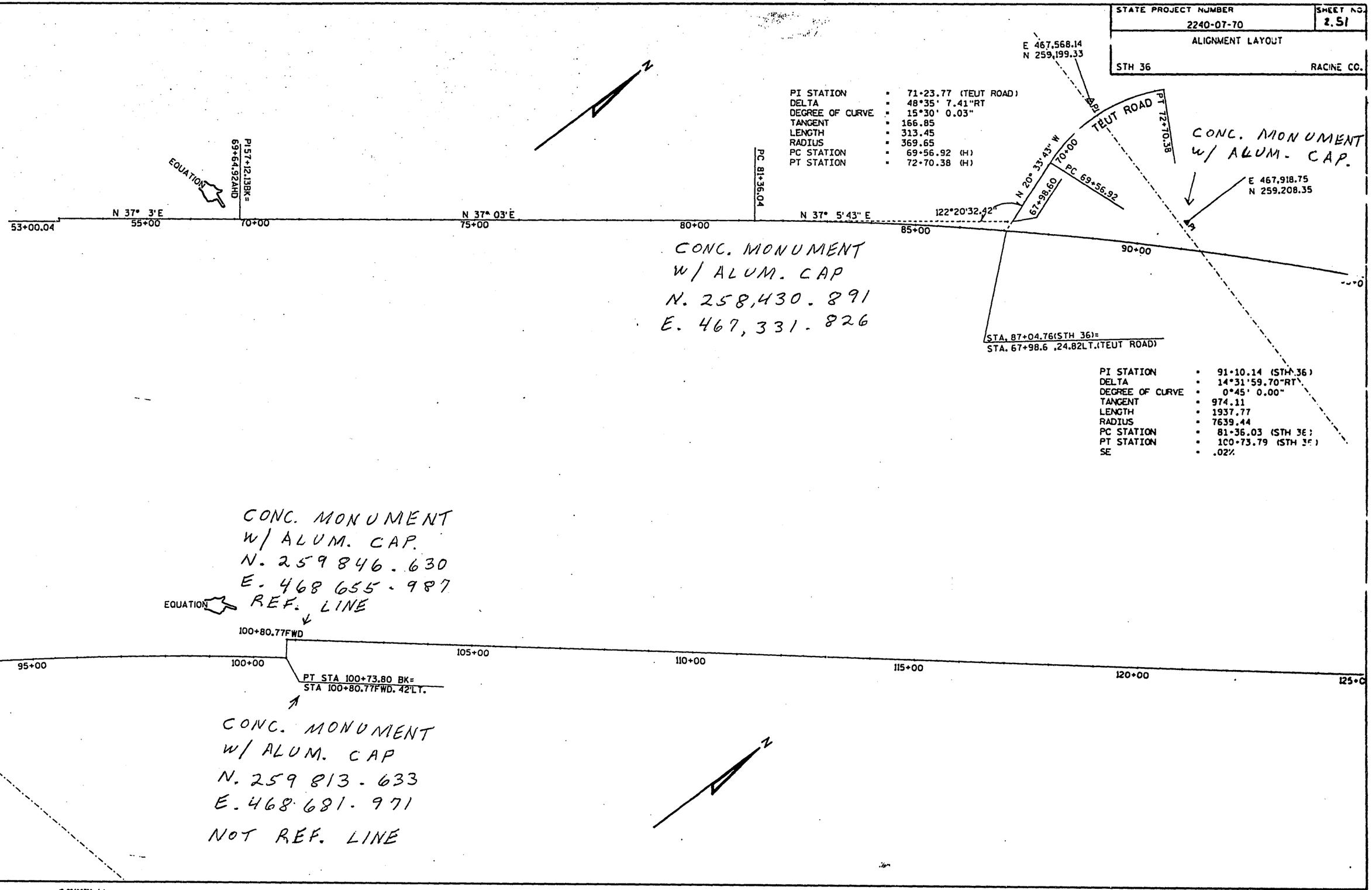
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WISDOT/CADDS SHEET

STATE PROJECT NUMBER	SHEET NO.
2240-07-70	2.51

ALIGNMENT LAYOUT

STH 36 RACINE CO.



PLOT SCALE

PLOT NAMES

LEVELS ON - 1,2,3,4,5,6,7,8,9,10,11,12,13,14,15,16,17,18,19,20,21,22,23,24,25,26,27,28,29,30,31,32,33,34,35,36,37,38,39,40,41,42,43,44,45,46,47,48,49,50,51,52,53,54,55,56,57,58,59,60,61,62,63

FILE NAME: HDGN: d2 2240036st.dgn

STATE PROJECT NUMBER	SHEET NO.
2240-07-70	2.52
ALIGNMENT LAYOUT	
STH 36	RACINE Co.

N

N 51° 36' 20" E

125+00 130+00 135+00 140+00 145+00 150+00 155

25+00.00

25+00

53°37'42.82"

N 2° 1'23" W

20+00

C.T.H. W

15+00.00

155+00 160+00 165+00 170+00 175+00 180+00

N 51°36'20" E

STA. 163+89.9 (STH 36) =
STA. 20+00.00 (CTH W)

N

LEVELS ON - 1,2,3,4,5,6,7,8,9,10,11,12,13,14,15,16,17,18,19,20,21,22,23,24,25,26,27,28,29,30,31,32,33,34,35,36,37,38,39,40,41,42,43,44,45,46,47,48,49,50,51,52,53,54,55,56,57,58,59,60,61,62,63

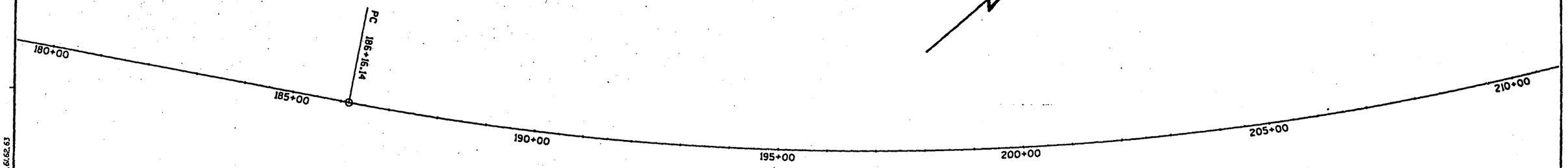
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STATE PROJECT NUMBER	SHEET
2240-07-70	2.53

ALIGNMENT LAYOUT

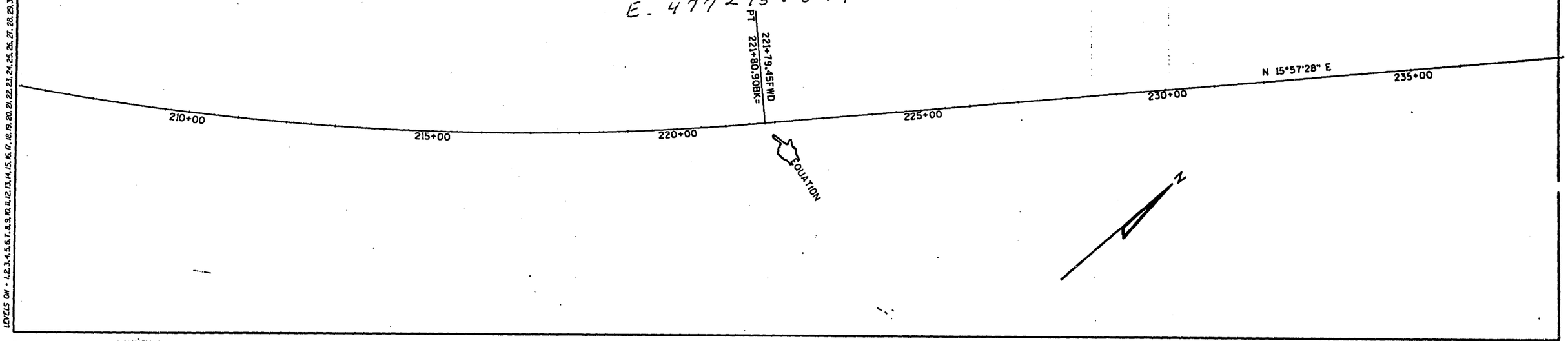
STH 36 F[illegible] CO.

CONC. MONUMENT
W/ ALUM CAP
N. 265147.724
E. 475345.603



PI STATION	=	10204+58.33 (STH 36)
DELTA	=	35°38'51.16"LT
DEGREE OF CURVE	=	1° 0' 0.00"
TANGENT		1842.19
LENGTH	=	3564.76
RADIUS	=	5729.58
PC STATION	=	10186+16.14 (STH 36)
PT STATION	=	10221+80.90 (STH 36)
SE	=	0.27%

CONC. MONUMENT
W/ ALUM. CAP
N: 268063.057
E. 477295.899



PLOT SCALE= 1.0000 '/ IN.

LEVELS ON = 1,2,3,4,5,6,7,8,9,10,11,12,13,14,15,16,17,18,19,20,21,22,23,24,25,26,27,28,29,30,31,32,33,34,35,36,37,38,39,40,41,42,43,44,45,46,47,48,49,50,51,52,53,54,55,56,57,58,59,60,61,62,63

FILE NAME: HDGN: d2 2240073655.dgn

STATE PROJECT NUMBER	SHEET NO.
2240-07-70	2.59
ALIGNMENT LAYOUT	
STH 36	RACINE CO.

PI NUMBER	=	6
PI STATION	=	20+79.20 (K)
DELTA	=	67° 7'39.86"RT
DEGREE OF CURVE	=	33°42'12.24"
TANGENT	=	112.79
LENGTH	=	199.17
RADIUS	=	170.00
PC STATION	=	19+66.41 (K)
PT STATION	=	21+65.58 (K)

E 477,633.46
N 269,923.68

API

PT 21+65.58

N 15° 57' 31" E

23+95.08

20+00

PC 19+66.41

67°29'44.56"

N 51° 0' 10" W

N 15° 57' 28" E

235+00 240+00 245+00 250+00 255+00 260+00

PT 18+08.41

STA.239+82.29 (STH 36) =
STA. 18+76.24 (RIVER ROAD)

PC 14+84.29

RIVER ROAD

15+00

E 477,973.46
N 269,650.02

N 21° 58' 15" W

14+84.29

PI STATION	=	16+49.95 RIVER RD.
DELTA	=	29°11'55.69"LT
DEGREE OF CURVE	=	9° 0'31.57"
TANGENT	=	165.66
LENGTH	=	324.12
RADIUS	=	636.00
PC STATION	=	14+84.29 RIVER RD.
PT STATION	=	18+08.41 RIVER RD.

S 64° 32' 47" E

STA. 276+36.93 (STH 36) =
STA. 20+00.00 (CTH J)

99°29'44.56"

20+00

N 15°57'28" E

260+00 265+00 270+00 275+00 280+00 285+00 290+00

PC 20+80.70

C.T.H. J

PI STATION	=	23+32.12 CTH J
DELTA	=	14°59'55.88"RT
DEGREE OF CURVE	=	3° 0' 0.00"
TANGENT	=	251.42
LENGTH	=	499.96
RADIUS	=	1909.86
PC STATION	=	20+80.70 CTH J
PT STATION	=	25+80.66 CTH J

25+00

S 49° 32' 51" E

PT 25+80.66

25+80.66

LEVELS ON - 1,2,3,4,5,6,7,8,9,10,11,12,13,14,15,16,17,18,19,20,21,22,23,24,25,26,27,28,29,30,31,32,33,34,35,36,37,38,39,40,41,42,43,44,45,46,47,48,49,50,51,52,53,54,55,56,57,58,59,60,61,62,63

STATE PROJECT NUMBER	SHEET NO.
2240-07-70	2.55
ALIGNMENT LAYOUT	
STH 36	RACINE CO.

PC 17+43.32

N 87° 52' 19" E

+00.00

E 479,170.52
N 275,334.23

PI STATION = 21+56.73 CTH D
DELTA = 18°27'36.38"LT
DEGREE OF CURVE = 9°59'59.86"
TANGENT = 93.11
LENGTH = 184.60
RADIUS = 572.96
PC STATION = 20+63.62 CTH D
PT STATION = 22+48.22 CTH D

PT 19+41.82

BL S 84° 11' 48" E

STA 297+21.10 STH 36 =
STA 20+42.73 CTH D

20+00

100°08'46.04"

290+00 295+00 300+00 305+00 310+00 315+00

PC 20+63.62

PC 295+90.92

CONC. MONUMENT
w/ ALUM. CAP →
N. 275188.914
E. 479333.538

E 479,483.22
N 275,302.40

PI

PT 22+48.22

C.T.H. D

N 77° 21' 56" E

PC 23+67.92

PT 24+81.66

PI N 86° 27'
25+06.43

PI STATION = 24+24.91 CTH D
DELTA = 9° 5'55.90"RT
DEGREE OF CURVE = 7°59'59.89"
TANGENT = 56.99
LENGTH = 113.74
RADIUS = 716.20
PC STATION = 23+67.92 CTH D
PT STATION = 24+81.66 CTH D

E 480,166.98
N 278,103.55

PI STATION = 326+22.37 (STH 36)
DELTA = 20° 0'14.29"RT
DEGREE OF CURVE = 0°20' 0.00"
TANGENT = 3031.45
LENGTH = 6001.19
RADIUS = 17188.73
PC STATION = 295+90.92 (STH 36)
PT STATION = 355+92.11 (STH 36)
S.E. = 0.02%

320+00 325+00 330+00 335+00 340+00 345+00

STA. 344+93.21 R STH 36 =
STA. 101+51.04 STH 20

+00.00

98°46.36"

69°26'45.13"

TANGENT LINE

S.T.H. 20

S 33° 29' 21" E
105.00

LEVELS ON - 1,2,3,4,5,6,7,8,9,10,11,12,13,14,15,16,17,18,19,20,21,22,23,24,25,26,27,28,29,30,31,32,33,34,35,36,37,38,39,40,41,42,43,44,45,46,47,48,49,50,51,52,53,54,55,56,57,58,59,60,61,62,63

FILE NAME: HDGN: d2 22400736s29.dgn

WISDOT/CADDS SHEET 42

STATE PROJECT NUMBER	SHEET NO.
2240-07-70	2.56
ALIGNMENT LAYOUT	
STH 36	RACINE CO.

PI STATION = 326+22.37 (STH 36)
DELTA = 20° 0'14.29"RT
DEGREE OF CURVE = 0°20' 0.00"
TANGENT = 3031.45
LENGTH = 6001.19
RADIUS = 17188.73
PC STATION = 295+90.92 (STH 36)
PT STATION = 355+92.11 (STH 36)
S.E. = .02%

EQUATION

350+00 355+00 360+00 365+00 370+00 375+00

N 35° 57' 43" E

PT 355+92.11BK = 355+95.78FWD

CONC. MONUMENT
w/ ALUM. CAP
N. 280557.230
E. 481947.188

CONC MONUMENT
w/ ALUM. CAP
N. 282288.665
E. 483203.389

PC 20+37+3.92

N 85° 59' 59" E 16+00.00

PC 16+82.66

PI NUMBER = 4
PI STATION = 18+49.63 (MAIN ROAD)
DELTA = 9°59'33.65"LT
DEGREE OF CURVE = 3° 0' 0.00"
TANGENT = 166.97
LENGTH = 333.09
RADIUS = 1909.86
PC STATION = 16+82.66 (MAIN ROAD)
PT STATION = 20+15.75 (MAIN ROAD)

19+00

41'54.06"

PT 20+15.75

N18°41'55" E

380+00 385+00 390+00 395+00 400+00 405+00

EQUATION

PT 388+85.81BK = 388+87.33FWD

21+00

N 16° 0'26" E MAIN ROAD

25+00

E 483,543.90
N 282,757.99

PI STATION = 383+14.76 (STH 36)
DELTA = 17°15'48.15"LT
DEGREE OF CURVE = 1° 30' 0.00"
TANGENT = 579.84
LENGTH = 1150.89
RADIUS = 3819.72
PC STATION = 377+34.92 (STH 36).
PT STATION = 388+85.81 (STH 36).
PT. EQUATION = 388+87.33AHD.
S.E. = .041%

CONC. MONUMENT
w/ ALUM. CAP.
N. 283307.227
E. 483729.787

LEVELS ON - 1,2,3,4,5,6,7,8,9,10,11,12,13,14,15,16,17,18,19,20,21,22,23,24,25,26,27,28,29,30,31,32,33,34,35,36,37,38,39,40,41,42,43,44,45,46,47,48,49,50,51,52,53,54,55,56,57,58,59,60,61,62,63

FILE NAME: HDGN: d2 2240036ss11.dgn

STATE PROJECT NUMBER
2240-07-70

SHEET NO.
2.57

ALIGNMENT LAYOUT

STH 36 RACINE CO

105+00

STA 428+49.54 STH 36 =
STA 108+80.27 STH 164

90°00'15.05"

N 18° 41' 55" E

405+00 410+00 415+00 420+00 425+00 430+00 435+00

110+00

PT 110+73.96

S 71° 18' 20" E

S.T.H. 164

PI STATION	=	92+36.30 STH 164
DELTA	=	81°43'20.05"LT
DEGREE OF CURVE	=	1°45' 0.01"
TANGENT	=	2832.18
LENGTH	=	4669.84
RADIUS	=	3274.04
PC STATION	=	64+04.13 STH 164
PT STATION	=	110+73.96 STH 164

EXISTING CONC. MON.
W/ BRASS CAP. PUNCHED
DOT NEAR CENTER
STAMPED P. I.
462 + 92.32

KRAMER ROAD

N 87° 52' 17" E

19+00

68°31' 16"

20+00

25°

435+00 440+00 445+00 450+00 455+00 460+00 465+00

PC 446+69.60

CONC. MONUMENT
W/ ALUM. CAP.
N. 288784.302
E. 485593.513

PI NUMBER	=	22
PI STATION	=	20462+92.33 (STH 36)
DELTA	=	16° 7'12.37"RT
DEGREE OF CURVE	=	0°30' 0.00"
TANGENT	=	1622.73
LENGTH	=	3224.02
RADIUS	=	11459.16
PC STATION	=	20446+69.60 (STH 36)
PT STATION	=	20478+93.62 (STH 36)
SE	=	.02%

E 486,103.74
N 290,321.38

LEVELS ON - 1,2,3,4,5,6,7,8,9,10,11,12,13,14,15,16,17,18,19,20,21,22,23,24,25,26,27,28,29,30,31,32,33,34,35,36,37,38,39,40,41,42,43,44,45,46,47,48,49,50,51,52,53,54,55,56,57,58,59,60,61,62,63

FILE NAME: HDGN: d2 2240073&sc13.dgn

STATE PROJECT NUMBER
2240-07-70
ALIGNMENT YOU?
STH 36

SHEET 2.58

PI STATION = 462+92.33 (STH 36)
DELTA = 16° 7'12.37"RT
DEGREE OF CURVE = 0°30' 0.00"
TANGENT = 1622.73
LENGTH = 3224.02
RADIUS = 11459.16
PC STATION = 20446+69.60 (STH 36)
PT STATION = 20478+93.62 (STH 36)
SE = .02%

E 486,103.74
N 290,321.36

465+00 470+00 475+00 480+00 485+00 490+00

EQUATION

PT 478+93.62 BK = 478+95.82 FWD

N 34°49'07" E

END PROJECT 2240-07-70
BEGIN PROJECT 2240-04-76

CONC. MONUMENT
W/ ALUM CAP.
N. 291653.583
E. 487030.285

495+00 500+00 505+00 510+00 515+00 520+00

STA 511+00.00 STH 36=
STA 10+54.91 MALCHINE RD.

S 55° 10' 53" W

N 34° 49' 7" E

89°59'53.43"

PC 10+68.94

E 489,002.43
N 294,184.92

PI

PT 13+77.14

MALCHINE ROAD

PI STATION = 12+28.63 MALCHINE RD.
DELTA = 36°59' 0.40"LT
DEGREE OF CURVE = 11°59'57.72"
TANGENT = 159.69
LENGTH = 308.21
RADIUS = 477.49
PC STATION = 10+68.94 MALCHINE RD.
PT STATION = 13+77.15 MALCHINE RD.

LEVELS ON - 1,2,3,4,5,6,7,8,9,10,11,12,13,14,15,16,17,18,19,20,21,22,23,24,25,26,27,28,29,30,31,32,33,34,35,36,37,38,39,40,41,42,43,44,45,46,47,48,49,50,51,52,53,54,55,56,57,58,59,60,61,62,63

FILE NAME: HDGN: d2 22400736st5.dgn

DATE 01/30/95

ESTIMATE OF QUANTITIES

ITEM	ITEM DESCRIPTION	UNIT	TOTAL	2240-07-70 QUANTITY
20101	CLEARING	STA.	213.00	213.00
20102	CLEARING	I.D.	100.00	100.00
20104	GRUBBING	STA.	213.00	213.00
20105	GRUBBING	I.D.	100.00	100.00
20401	REMOVING PAVEMENT	S.Y.	7,021.00	7,021.00
20405	REMOVING CURB AND GUTTER	L.F.	630.00	630.00
20409	REMOVING SURFACE DRAINS	EACH	1.00	1.00
20416	REMOVING INLETS	EACH	1.00	1.00
20503	UNCLASSIFIED EXCAVATION	C.Y.	421,777.00	421,777.00
20505	MARSH EXCAVATION	C.Y.	45,660.00	45,660.00
20610	EXCAVATION FOR STRUCTURES, BRIDGES B-51-78	L.S.	1.00	1.00
20611	EXCAVATION FOR STRUCTURES, BRIDGES B-51-79	L.S.	1.00	1.00
20801	BORROW EXCAVATION	C.Y.	8,587.00	8,587.00
20901	GRANULAR BACKFILL	C.Y.	480.00	480.00
21301	FINISHING ROADWAY	L.S.	1.00	1.00
30404	CRUSHED AGGREGATE BASE COURSE	TON	179,699.00	179,699.00
30420	CRUSHED AGGREGATE BASE COURSE, OPEN GRADED, NUMBER 2	TON	282.00	282.00
30426	BREAKER RUN STONE	TON	5,334.00	5,334.00
40204	ASPHALTIC MATERIAL FOR TACK COAT	GAL.	530.00	530.00
41101	ASPHALTIC SURFACE	TON	4,975.00	4,975.00
41534	CONCRETE SURFACE DRAINS	C.Y.	20.90	20.90
41571	PAVEMENT TIES	EACH	285.00	285.00
50201	CONCRETE MASONRY, BRIDGES	C.Y.	1,372.00	1,372.00
50230	PROTECTIVE SURFACE TREATMENT	GAL.	153.00	153.00
50232	EXPANSION DEVICE, STRUCTURE B-51-78	L.S.	1.00	1.00
50233	EXPANSION DEVICE, STRUCTURE B-51-79	L.S.	1.00	1.00
50303	PRESTRESSED GIRDER, I TYPE, 36-INCH	L.F.	1,145.00	1,145.00
50305	PRESTRESSED GIRDER, I TYPE, 45-INCH	L.F.	1,530.00	1,530.00
50504	HIGH-STRENGTH BAR STEEL REINFORCEMENT, BRIDGES	LB.	33,230.00	33,230.00

ITEM	ITEM DESCRIPTION	UNIT	TOTAL	2240-07-70 QUANTITY
50511	COATED HIGH-STRENGTH BAR STEEL REINFORCEMENT, BRIDGES	LB.	184,060.00	184,060.00
50626	NON-LAMINATED ELASTOMERIC BEARING PADS	EACH	27.00	27.00
50627	LAMINATED ELASTOMERIC BEARING PADS	EACH	22.00	22.00
50640	STEEL DIAPHRAGMS, STRUCTURE B-51-78	EACH	16.00	16.00
50641	STEEL DIAPHRAGMS, STRUCTURE B-51-79	EACH	15.00	15.00
51030	CAST-IN-PLACE CONCRETE PILING, DELIVERED AND DRIVEN, 10 3/4-INCH	L.F.	5,480.00	5,480.00
51121	STEEL PILING, DELIVERED AND DRIVEN, HP 10-INCH 42 POUND	L.F.	3,490.00	3,490.00
51405	FLOOR DRAINS, TYPE GC	EACH	16.00	16.00
52103	CORRUGATED STEEL CULVERT PIPE, 12-INCH	L.F.	82.00	82.00
52105	CORRUGATED STEEL CULVERT PIPE, 18-INCH	L.F.	77.00	77.00
52107	CORRUGATED STEEL CULVERT PIPE, 24-INCH	L.F.	230.00	230.00
52176	STEEL APRON ENDWALLS FOR CULVERT PIPE, SLOPED SECTION, 12-INCH	EACH	4.00	4.00
52177	STEEL APRON ENDWALLS FOR CULVERT PIPE, SLOPED SECTION, 15-INCH	EACH	14.00	14.00
52178	STEEL APRON ENDWALLS FOR CULVERT PIPE, SLOPED SECTION, 18-INCH	EACH	2.00	2.00
52180	STEEL APRON ENDWALLS FOR CULVERT PIPE, SLOPED SECTION, 24-INCH	EACH	6.00	6.00
52201	REINFORCED CONCRETE CULVERT PIPE, CLASS III, 12-INCH	L.F.	20.00	20.00
52202	REINFORCED CONCRETE CULVERT PIPE, CLASS III, 15-INCH	L.F.	8.00	8.00
52203	REINFORCED CONCRETE CULVERT PIPE, CLASS III, 18-INCH	L.F.	16.00	16.00
52205	REINFORCED CONCRETE CULVERT PIPE, CLASS III, 24-INCH	L.F.	520.00	520.00

ITEM	ITEM DESCRIPTION	UNIT	TOTAL	2240-07-70 QUANTITY
52207	REINFORCED CONCRETE CULVERT PIPE, CLASS III, 30-INCH	L.F.	177.00	177.00
52209	REINFORCED CONCRETE CULVERT PIPE, CLASS III, 36-INCH	L.F.	84.00	84.00
52226	REINFORCED CONCRETE CULVERT PIPE, CLASS IV, 15-INCH	L.F.	504.00	504.00
52229	REINFORCED CONCRETE CULVERT PIPE, CLASS IV, 24-INCH	L.F.	80.00	80.00
52260	REINFORCED CONCRETE APRON ENDWALLS FOR CULVERT PIPE, 12-INCH	EACH	2.00	2.00
52261	REINFORCED CONCRETE APRON ENDWALLS FOR CULVERT PIPE, 15-INCH	EACH	3.00	3.00
52262	REINFORCED CONCRETE APRON ENDWALLS FOR CULVERT PIPE, 18-INCH	EACH	2.00	2.00
52264	REINFORCED CONCRETE APRON ENDWALLS FOR CULVERT PIPE, 24-INCH	EACH	28.00	28.00
52266	REINFORCED CONCRETE APRON ENDWALLS FOR CULVERT PIPE, 30-INCH	EACH	2.00	2.00
52267	REINFORCED CONCRETE APRON ENDWALLS FOR CULVERT PIPE, 36-INCH	EACH	1.00	1.00
52336	REINFORCED CONCRETE HORIZONTAL ELLIPTICAL CULVERT PIPE, CLASS HE-III, 19X30-INCH	L.F.	128.00	128.00
52361	REINFORCED CONCRETE APRON ENDWALLS FOR HORIZONTAL ELLIP. CULVERT PIPE, 19X30-INCH	EACH	10.00	10.00
52363	REINFORCED CONCRETE APRON ENDWALLS FOR HORIZONTAL ELLIP. CULVERT PIPE, 24X38-INCH	EACH	1.00	1.00
52365	REINFORCED CONCRETE APRON ENDWALLS FOR HORIZONTAL ELLIP. CULVERT PIPE, 29X45-INCH	EACH	1.00	1.00
52472	SALVAGED APRON ENDWALLS FOR CULVERT PIPE, 18-INCH	EACH	1.00	1.00
52474	SALVAGED APRON ENDWALLS FOR CULVERT PIPE, 24-INCH	EACH	10.00	10.00
52475	SALVAGED APRON ENDWALLS FOR CULVERT PIPE, 30-INCH	EACH	8.00	8.00

SHEET 3.2

ITEM	ITEM DESCRIPTION	UNIT	TOTAL	2240-07-70 QUANTITY
52476	SALVAGED APRON ENDWALLS FOR CULVERT PIPE, 36-INCH	EACH	5.00	5.00
60120	CONCRETE CURB AND GUTTER, 18-INCH, TYPE D	L.F.	192.00	192.00
60123	CONCRETE CURB AND GUTTER, 30-INCH, TYPE A	L.F.	850.00	850.00
60133	CONCRETE CURB AND GUTTER, 30-INCH, TYPE D	L.F.	1,700.00	1,700.00
60170	CONCRETE CURB AND GUTTER, 36-INCH, TYPE D	L.F.	902.00	902.00
60601	RIPRAP	C.Y.	1,796.00	1,796.00
60602	HEAVY RIPRAP	C.Y.	675.00	675.00
60604	MEDIUM RANDOM RIPRAP	C.Y.	109.00	109.00
60825	REINFORCED CONCRETE PIPE, CLASS III, STORM SEWER, 12-INCH	L.F.	650.00	650.00
60826	REINFORCED CONCRETE PIPE, CLASS III, STORM SEWER, 15-INCH	L.F.	239.00	239.00
60827	REINFORCED CONCRETE PIPE, CLASS III, STORM SEWER, 18-INCH	L.F.	55.00	55.00
60829	REINFORCED CONCRETE PIPE, CLASS III, STORM SEWER, 24-INCH	L.F.	2,462.00	2,462.00
60831	REINFORCED CONCRETE PIPE, CLASS III, STORM SEWER, 30-INCH	L.F.	698.00	698.00
60833	REINFORCED CONCRETE PIPE, CLASS III, STORM SEWER, 36-INCH	L.F.	367.00	367.00
61002	REINFORCED CONCRETE HORIZONTAL ELLIPTICAL PIPE, CLASS HE- III, STORM SEWER, 19X30-INCH	L.F.	465.00	465.00
61004	REINFORCED CONCRETE HORIZONTAL ELLIPTICAL PIPE, CLASS HE- III, STORM SEWER, 24X38-INCH	L.F.	89.00	89.00
61006	REINFORCED CONCRETE HORIZONTAL ELLIPTICAL PIPE, CLASS HE- III, STORM SEWER, 29X45-INCH	L.F.	88.00	88.00
61110	MANHOLES, TYPE 1	EACH	7.00	7.00
61112	MANHOLES, TYPE 3	EACH	6.00	6.00

Sheet 3.2

ITEM	ITEM DESCRIPTION	UNIT	TOTAL	2240-07-70 QUANTITY
61123	INLETS, TYPE 8	EACH	27.00	27.00
61124	INLETS, TYPE 9	EACH	11.00	11.00
61147	INLETS, TYPE 2	EACH	4.00	4.00
61151	MANHOLE COVERS, TYPE J	EACH	3.00	3.00
61170	INLET COVERS, TYPE MS	EACH	51.00	51.00
61171	INLET COVERS, TYPE WM	EACH	8.00	8.00
61179	INLET COVERS, TYPE S	EACH	6.00	6.00
61201	PIPE UNDERDRAIN, 6-INCH	L.F.	2,650.00	2,650.00
61202	PIPE UNDERDRAIN, 8-INCH	L.F.	22.00	22.00
61211	PIPE UNDERDRAIN, UNPERFORATED, 6-INCH	L.F.	1,000.00	1,000.00
61212	PIPE UNDERDRAIN, UNPERFORATED, 8-INCH	L.F.	30.00	30.00
61220	PIPE UNDERDRAIN, DRAIN TILE, 4-INCH	L.F.	100.00	100.00
61222	PIPE UNDERDRAIN, DRAIN TILE, 6-INCH	L.F.	1,200.00	1,200.00
61223	PIPE UNDERDRAIN, DRAIN TILE, 8-INCH	L.F.	200.00	200.00
61224	PIPE UNDERDRAIN, DRAIN TILE, 10-INCH	L.F.	300.00	300.00
61225	PIPE UNDERDRAIN, DRAIN TILE, 12-INCH	L.F.	500.00	500.00
61227	PIPE UNDERDRAIN, DRAIN TILE, 15-INCH	L.F.	300.00	300.00
61251	DRAIN TILE EXPLORATION	L.F.	2,000.00	2,000.00
61254	REINFORCED CONCRETE APRON ENDWALLS FOR UNDERDRAIN, 6-INCH	EACH	85.00	85.00
61433	ANCHOR ASSEMBLIES FOR STEEL PLATE BEAM GUARD	EACH	8.00	8.00
61802	MAINTENANCE AND REPAIR OF HAUL ROADS, PROJECT 2240-07-70	L.S.	1.00	1.00
61910	MOBILIZATION	L.S.	.50	.50
62101	LANDMARK REFERENCE MONUMENTS	EACH	12.00	12.00
62301	CALCIUM CHLORIDE SURFACE TREATMENT	TON	17.00	17.00
62401	WATER	MGAL	1,740.00	1,740.00
62505	SALVAGED TOPSOIL	S.Y.	266,340.00	266,340.00
62702	MULCHING	S.Y.	271,167.00	271,167.00

SHT 3 of 4

ITEM	ITEM DESCRIPTION	UNIT	TOTAL	2240-07-70 QUANTITY
62811	EROSION BALES, DELIVERED	EACH	1,949.00	1,949.00
62812	EROSION BALES, INSTALLED	EACH	1,949.00	1,949.00
62815	SILT FENCE, DELIVERED	L.F.	14,323.00	14,323.00
62816	SILT FENCE, INSTALLED	L.F.	14,323.00	14,323.00
62817	SILT FENCE MAINTENANCE	L.F.	14,323.00	14,323.00
62819	MOBILIZATIONS, EROSION CONTROL	EACH	18.00	18.00
62821	MOBILIZATIONS, EMERGENCY EROSION CONTROL	EACH	25.00	25.00
62824	EROSION MAT, DELIVERED, CLASS I, TYPE B	S.Y.	10,624.00	10,624.00
62825	EROSION MAT, INSTALLED, CLASS I, TYPE B	S.Y.	10,624.00	10,624.00
62830	EROSION MAT, DELIVERED, CLASS II, TYPE A	S.Y.	8,499.00	8,499.00
62831	EROSION MAT, INSTALLED, CLASS II, TYPE A	S.Y.	8,499.00	8,499.00
62905	FERTILIZER, TYPE B	CWT.	169.00	169.00
63002	SEEDING	LB.	4,791.00	4,791.00
63101	SODDING	S.Y.	20,904.00	20,904.00
63301	DELINEATOR POSTS	EACH	9.00	9.00
63305	DELINEATORS	EACH	9.00	9.00
63822	MOVING SIGNS, TYPE II	EACH	16.00	16.00
64211	FIELD LABORATORY, PROJECT 2240-07-70	L.S.	1.00	1.00
64221	FIELD OFFICE, TYPE C, PROJECT 2240-07-70	L.S.	1.00	1.00
64302	TRAFFIC CONTROL, PROJECT 2240-07-70	L.S.	1.00	1.00
64313	TRAFFIC CONTROL, DRUMS	DAYS	222,777.00	222,777.00
64318	TRAFFIC CONTROL, BARRICADES, TYPE III	DAYS	18,697.00	18,697.00
64321	TRAFFIC CONTROL, WARNING LIGHTS, TYPE A	DAYS	44,982.00	44,982.00
64323	TRAFFIC CONTROL, WARNING LIGHTS, TYPE C	DAYS	130,787.00	130,787.00
64326	TRAFFIC CONTROL, SIGNS	DAYS	26,698.00	26,698.00
64402	PAVEMENT MARKING, COLD PAINT	L.F.	47,310.00	47,310.00

SHEET 3.5

ITEM	ITEM DESCRIPTION	UNIT	TOTAL	2240-07-70 QUANTITY
64425	PAVEMENT MARKING, STOP LINE, COLD PAINT, 18-INCH	L.F.	160.00	160.00
64487	REMOVING PAVEMENT MARKINGS	L.F.	12,030.00	12,030.00
64499	TEMPORARY PAVEMENT MARKING, RAISED MARKERS	EACH	57.00	57.00
64501	GEOTEXTILE FABRIC, TYPE SAS	S.Y.	1,390.00	1,390.00
64503	GEOTEXTILE FABRIC, TYPE DF	S.Y.	1,473.00	1,473.00
64505	GEOTEXTILE FABRIC, TYPE R	S.Y.	7,469.00	7,469.00
64506	GEOTEXTILE FABRIC, TYPE HR	S.Y.	1,020.00	1,020.00
64601	SAWING EXISTING PAVEMENT	L.F.	2,432.00	2,432.00
64602	SAWING CONCRETE PAVEMENT, FULL DEPTH	L.F.	880.00	880.00
90001	PREPARATION OF FOUNDATION, SUBGRADE FOR BASE COURSE, DENSE GRADED	STA.	395.00	395.00
90002	TEMPORARY RIPRAP SILT TRAP	L.S.	1.00	1.00
90003	PERMANENT DETENTION BASINS, STA 313+00	L.S.	1.00	1.00
90004	TEMPORARY SEDIMENT TRAP, STA 306+00	L.S.	1.00	1.00
90005	TEMPORARY STONE DITCH CHECKS	C.Y.	448.00	448.00
90006	CONCRETE ANTI-SEEP COLLAR	EACH	2.00	2.00
90007	CATCH BASIN, TYPE 5, MODIFIED	EACH	1.00	1.00
90008	REMOVING PIPE UNDERDRAIN	L.F.	700.00	700.00
90009	TEST ROLLING	STA.	395.00	395.00
90010	REMOVING PULLBOXES	EACH	7.00	7.00
90012	TRAFFIC CONTROL, PERMANENT SIGNS	EACH	104.00	104.00
90328	SETTLEMENT GAGES	EACH	13.00	13.00
90365	QUALITY MANAGEMENT PROGRAM, BASE COURSES	TON	179,699.00	179,699.00
90416	COARSE AGGREGATE, SIZE NO. 2	C.Y.	10.00	10.00
90545	CONCRETE COLLAR	EACH	6.00	6.00
90643	SAND BAGS	EACH	500.00	500.00
90710	TRAFFIC CONTROL, PERMANENT BARRICADES, TYPE III	EACH	72.00	72.00

SHEET 3.9

ITEM	ITEM DESCRIPTION	UNIT	TOTAL	2240-07-70 QUANTITY
90999	ON-THE-JOB TRAINING	HRS.	300.00	300.00

CLEARING AND GRUBBING

STATION	CLEARING 20101 STA	CLEARING 20102 I.D.	GRUBBING 20104 STA	GRUBBING 20105 I.D.
SOUTHBOUND				
95+50-98+50	3		3	
99+00-100+00	1		1	
107+00-108+00	1		1	
103+00-104+00	1		1	
130+00-145+00	15		15	
146+00-155+00	9		9	
159+00-160+00	1		1	
NORTHBOUND				
174+00-181+00	7		7	
182+00-201+00	19		19	
205+00-213+00	8		8	
217+00-228+00	11		11	
230+00-233+00	3		3	
234+00-238+00	4		4	
242+00-253+00	11		11	
255+00-271+00	16		16	
274+00-275+00	1		1	
279+00-280+00	1		1	
285+00-291+00	6		6	
293+00-296+00	3		3	
300+00-301+00	1		1	
305+00-309+00	4		4	
312+00-321+00	9		9	
323+00-327+00	4		4	
336+00-337+00	1		1	
339+00-343+00	4		4	
345+00-349+00	4		4	
350+00-366+00	16		16	
368+00-373+00	5		5	
376+00-378+00	2		2	
381+00-385+00	4		4	
388+00-389+00	1		1	
405+00-409+00	4		4	
416+00-424+00	8		8	
425+00-428+00	3		3	
434+00-433+00	2		2	
455+00-461+00	6		6	
464+00-465+00	1		1	
471+00-476+00	5		5	
478+00-481+00	3		3	
483+00-485+00	2		2	
SIDEROADS				
CTH J (18+00-19+00 RT)	1		1	
CTH D (21+00-22+00 LT,RT)	2		2	
UNDISTRIBUTED		100		100
TOTALS	213	100	213	100

REMOVING SURFACE DRAINS 20409

LOCATION	EACH
230+45-233+80 RT.	1

	*20503 UNCL. EXC. C.Y.	*20503 EXCA. BELOW SUBGRADE C.Y.	*20503 TOTAL UNCL. EXC. C.Y.	*20505 MARSH EXC. C.Y.	** AIR FILL C.Y.	** MARSH BACKFILL C.Y.	** EBS BACKFILL C.Y.	** TOTAL FILL C.Y.	*20801 BORROW EXC. C.Y.
MAINLINE	381816	36732	418548	45660	278555	64835	45925	389315	7499
SIDEROADS	2530		2530		227			227	-2303
TEMPORARY ROAD	699		699		4090			4090	3391
TOTALS	385045	36732	421777	45660	282872	64835	45925	393632	8587

UNCL. EXC. - TOTAL FILL = BORROW
385045 - 393632 = 8587

** QUANTITIES CONSISTS OF AIR, EBS AND MARSH FILL EXPANDED AT 15%, 20% AND 30% RESPECTIVELY

REMOVING CURB & GUTTER 20405

LOCATION	L.F.
CTH D	328
STH 20	93
MAIN ST	124
STH 164/CTH K	85
KRAMER ROAD	
TOTALS	630

SEE 20 SCALE INTERSECTION DETAILS FOR EXACT LOCATIONS

*64602 SAWING CONCRETE PAVEMENT FULL DEPTH

LOCATION	L.F.
89+00-93+00	50
148+78-162+00	428
167+00-184+24	402
TOTALS	880

SEE 20 SCALE INTERSECTION DETAILS FOR EXACT LOCATIONS

*64601 SAWING EXISTING PAVEMENT

LOCATION	L.F.
RIVER ROAD	44
CTH J	22
CTH D	22
STH 20	622
MAIN ST	623
STH 164/CTHK	837
KRAMER ROAD	262
TOTALS	2432

*20401 REMOVING PAVEMENT

LOCATION	S.Y.
89+00-93+00	1078
148+78-162+00	2962
167+00-194+24	2981
TOTALS	7021

EARTHWORK SIDE ROADS

LOCATION	UNCLASSIFIED EXC* VOL.	UNCLASSIFIED EXC* ACC. VOL.	FILL EXCAVATION* VOL.	FILL EXCAVATION* ACC. VOL.
TEUT RD.	16	16	159	159
RIVER RD.	912	928	4	163
CTH "J"	211	1139	0	163
CTH "D"	477	1616	14	177
STH 20	22	1638	0	177
MAIN ST.	404	2042	0	177
STH 164	269	2311	0	177
KRAMER RD.	219	2530	50	227

*QUANTITY LISTED ELSEWHERE

EARTHWORK TEMPORARY ROAD

STATION	UNCLASSIFIED EXC* VOL.	UNCLASSIFIED EXC* ACC. VOL.	FILL EXCAVATION* VOL.	FILL EXCAVATION* ACC. VOL.
81+50				
	12	12	0	0
82+00				
	45	57	0	0
83+00				
	67	124	40	40
84+00				
	93	217	281	321
85+00				
	26	243	64	385
85+25				
	73	316	380	765
86+00				
	102	418	794	1559
87+00				
	102	520	1147	2706
88+00				
	179	699	1384	4090
89+00				

* QUANTITY LISTED ELSEWHERE

*90010 REMOVING PULLBOXES

LOCATION	EACH
341+83, 20' LT	1
344+30, 1' LT.	1
344+30, 167' RT.	1
345+04, 11' RT.	1
345+13, 6' LT.	1
345+36, 0' RT.	1
345+79, 15' LT.	1
TOTALS	7

SEE STH 20 INTERSECTION DETAIL

LEVELS ON - 1,2,3,4,5,6,7,8,9,10,11,12,13,14,15,16,17,18,19,20,21,22,23,24,25,26,27,28,29,30,31,32,33,34,35,36,37,38,39,40,41,42,43,44,45,46,47,48,49,50,51,52,53,54,55,56,57,58,59,60,61,62,63

DRIVEWAY AND MEDIAN CULVERTS

CULVERT	LOCATION	CORRUGATED STEEL CULVERT PIPE *52103 12-INCH L.F.	*52105 18-INCH L.F.	*52107 24-INCH L.F.	RCCP CLASS IV *52226 15-INCH L.F.	THICKNESS (IN INCHES) STEEL	ALUM.	STEEL APRON ENDWALLS FOR CULVERT PIPE * SLOPED SECTION *52176 12-INCH EACH	*52177 15-INCH EACH	*52178 18-INCH EACH	*52180 24-INCH EACH
C-1	124 • 53 84' LT		77			0.064	0.06			2	
C-2	159 • 00 4' LT				80				2		
C-3	170 • 00 4' LT				64				2		
C-3A	206 • 88 96' RT			70		0.064	0.075				2
C-4	225 • 00 6' LT				80				2		
C-5	225 • 00 95' LT			98		0.064	0.075				2
C-6	365 • 00 6' LT				72				2		
C-7	365 • 00 81' LT			62		0.064	0.075				2
C-8	395 • 00 6' LT				64				2		
C-9	401 • 98 6' LT				80				2		
C-10	422 • 00 6' LT				64				2		
C-100	16 • 60, 24' LT RIVER RD.	41				0.064	0.06	2			
C-101	17 • 25, 28' RT RIVER RD.	41				0.064	0.06	2			
	TOTALS	82	77	230	504			4	14	2	6

* ADAPTER SLEEVE REQUIRED FOR 15-INCH

REMOVING CULVERTS
(NOT FOR PAY, INCIDENTAL TO UNCLASSIFIED EXCAVATION)

LOCATION	SIZE (INCHES)	LENGTH (FEET)	TYPE	EACH
124 • 50 RL	18	30	CMCP	1
141 • 95 LT	18	30	CMCP	1
216 • 35 LT	18	30	CMCP	1
233 • 90 RT	24	30	CMCP	1
RIVER ROAD				
16 • 65 LT	18	30	CMCP	1
17 • 33 RT	18	44	CMCP	1
239 • 80 RT	24	65	RCCP	1
288 • 60 LT	18	30	CMCP	1
297 • 20 RT	24	86	RCCP	1
310 • 90 RL	24	30	CMCP	1
345 • 10 LT	18	40	CMCP	1
STH 20				
102 • 60 LT	18	30	CMCP	1
354 • 90 RT	18	30	CMCP	1
402 • 00 RL	18	30	CMCP	1
428 • 50 RL	24	100	RCCP	1
TOTAL				15

LEVELS ON • 1,2,3,4,5,6,7,8,9,10,11,12,13,14,15,16,17,18,19,20,21,22,23,24,25,26,27,28,29,30,31,32,33,34,35,36,37,38,39,40,41,42,43,44,45,46,47,48,49,50,51,52,53,54,55,56,57,58,59,60,61,62,63
PLOT SCALE: 1
FILE NAME: HDGN:d2 2240073&sqty70.dgn

PIPE UNDERDRAIN EXISTING ROADWAY

LOCATION	REMOVING UNPERFORATED UNDERDRAIN, 6-INCH ITEM NO. 90008 L.F.	UNPERFORATED UNDERDRAIN, 6-INCH ITEM NO. 61211 L.F.	REINFORCED CONCRETE APRON ENDWALLS, 6-INCH ITEM NO. 61254 EACH
345+46 SB RT	10	10	1
346+49 SB RT	10	10	1
347+90 SB RT	10	10	1
349+51 SB RT	10	10	1
351+00 SB RT	10	10	1
352+54 SB RT	10	10	1
354+00 SB RT	10	10	1
355+51 SB RT	10	10	1
357+00 SB RT	10	10	1
360+20 SB RT	10	10	1
363+55 SB RT	10	10	1
366+51 SB RT	10	10	1
369+51 SB RT	10	10	1
372+48 SB RT	10	10	1
374+94 SB RT	10	10	1
393+00 SB RT	10	10	1
395+95 SB RT	10	10	1
399+00 SB RT	10	10	1
402+25 SB RT	10	10	1
405+00 SB RT	10	10	1
408+00 SB RT	10	10	1
411+00 SB RT	10	10	1
414+00 SB RT	10	10	1
417+47 SB RT	10	10	1
419+00 SB RT	10	10	1
420+54 SB RT	10	10	1
422+00 SB RT	10	10	1
423+51 SB RT	10	10	1
425+00 SB RT	10	10	1
426+50 SB RT	10	10	1
429+30 SB RT	10	10	1
430+50 SB RT	10	10	1
433+50 SB RT	10	10	1
435+00 SB RT	10	10	1
437+90 SB RT	10	10	1
439+50 SB RT	10	10	1
441+92 SB RT	10	10	1
448+82 SB RT	10	10	1
451+00 SB RT	10	10	1
453+50 SB RT	10	10	1
456+00 SB RT	10	10	1
458+50 SB RT	10	10	1
459+75 SB RT	10	10	1
460+76 SB RT	10	10	1
461+52 SB RT	10	10	1
462+25 SB RT	10	10	1
463+07 SB RT	10	10	1
463+75 SB RT	10	10	1
464+50 SB RT	10	10	1
465+25 SB RT	10	10	1
466+00 SB RT	10	10	1
466+75 SB RT	10	10	1
467+52 SB RT	10	10	1
468+25 SB RT	10	10	1
469+00 SB RT	10	10	1
469+75 SB RT	10	10	1
470+50 SB RT	10	10	1
471+25 SB RT	10	10	1
472+00 SB RT	10	10	1
472+75 SB RT	10	10	1
473+50 SB RT	10	10	1
474+10 SB RT	10	10	1
475+00 SB RT	10	10	1
475+75 SB RT	10	10	1
476+50 SB RT	10	10	1
479+02 SB RT	10	10	1
481+90 SB RT	10	10	1
485+00 SB RT	10	10	1
TOTAL	700	700*	70*

* MORE LISTED ELSEWHERE

PIPE UNDERDRAIN

LOCATION	PIPE UNDERDRAIN 6-INCH *61201 L.F.	PIPE UNDERDRAIN, UNPERFORATED, 6-INCH *61211 L.F.	REINF. CONC. APRON ENDWALLS FOR UNDERDRAIN, 6-INCH *61254 EACH	CR. AGG. BASE COURSE, OPEN GRADED, NO. 2 *30420 TON
BACK SLOPE *				
98+00 - 99+00	100	20	1	11
181+75 - 182+25	50	20	1	5
187+75 - 188+25	50	20	1	5
266+50 - 267+50	100	20	1	11
277+50 - 281+50	400	80	4	43
418+50 - 419+50	100	20	1	11
420+50 - 423+50	300	60	3	32
430+00 - 432+00	200	40	2	21
458+50 - 459+50	100	20	1	11
MAINLINE (DISCHARGE INTO INLETS)				
89+00-101+50 SB.	1250			132
TOTAL	2650	300 **	15**	282

* ACTUAL LOCATION TO BE DETERMINED IN THE FIELD
** MORE QUANTITIES LISTED ELSEWHERE

PIPE UNDERDRAIN, DRAIN TILE,

LOCATION	4-INCH *61220 L.F.	6-INCH *61222 L.F.	8-INCH *61223 L.F.	10-INCH *61224 L.F.	12-INCH *61225 L.F.	15-INCH *61227 L.F.
110+49				100	100	
122+80				100		
126+05			100	100		
154+47					100	100
386+50		100				
387+00					100	
388+00			100			
392+00		100				
402+50					100	100
414+20		100				
432+80		100				
438+90	100					
442+50					100	100
476+00		100				
480+00		100				
485+00		100				
UNDISTRIBUTED		500				
TOTAL	100	1200	200	300	500	300

* EXACT SIZE AND LOCATION TO BE DETERMINED IN THE FIELD

DRAIN TILE EXPLORATION ITEM NO. 61251

* STATION	* CMCP	* TILE	DRAIN TILE EXPLORATION
110+49	10" OR 12"	10" OR 12"	100
122+80		10"	100
126+05	10"	8"	100
154+47	12"	15"	100
386+50	6" STRUCT. TO STRUCT.		
387+00	12"		100
388+00	8"		100
392+00	6"		100
402+50	15"	12"	100
414+20	6"		100
432+80	6"		100
438+90		4"	100
442+50	12"	15"	100
476+00		6"	100
480+00	6" RT	6" LT	100
485+00		6" RT	100
UNDISTRIBUTED			500
		TOTAL	2000 L.F.

LOCATION UNKNOWN
* PIPE UNDERDRAIN C.M.P. 6"
STATION TO STATION
99+00 - 102+00
218+00 - 225+00
265+00 - 270+00
B-51-57 ABUTMENTS
405+00 - 409+00
430+00 - 432+00
447+00 - 449+00
460+00 - 463+00

LEVELS ON - 1,2,3,4,5,6,7,8,9,10,11,12,13,14,15,16,17,18,19,20, 21,22,23,24,25,26,27,28,29,30,31,32,33,34,35,36,37,38,39,40,41,42,43,44,45,46,47,48,49,50,51,52,53,54,55,56,57,58,59,60,61,62,63

EROSION CONTROL TABLE (2 sheets)

LOCATION (STA. TO STA.)	SILT FENCE 62815 DELIVERED L.F.	SILT FENCE 62816 INSTALLED L.F.	SILT FENCE 62817 MAINTENANCE L.F.	EROSION BALES 62811 DELIVERED EACH	EROSION BALES 62812 INSTALLED EACH	EROSION MAT CLASS 1 TYPE B 62824 DELIVERED S.Y.	EROSION MAT CLASS 1 TYPE B 62825 INSTALLED S.Y.	EROSION MAT CLASS II TYPE A 62830 DELIVERED S.Y.	EROSION MAT CLASS II TYPE A 62831 INSTALLED S.Y.	SODDING 63101 S.Y.	SAND BAGS 90643 EACH
88+00 - 100+00 SB	323	323	323	67	67	618	618	260	260	863	
100+00 - 125+00 SB	66	66	66	78	78	233	233	336	336	427	
125+00 - 150+00 SB	1948	1948	1948	42	42	0	0	0	0	28	
150+00 - 162+00 SB	719	719	719	66	66	127	127	0	0	39	
162+00 - 168+00 NB & SB	9	9	9	0	0	0	0	0	0	0	
168+00 - 193+00 NB	1032	1032	1032	134	134	173	173	316	316	761	
193+00 - 218+00 NB	1176	1176	1176	151	151	942	942	93	93	276	
218+00 - 243+00 NB	378	378	378	119	119	557	557	80	80	103	
243+00 - 268+00 NB	1026	1026	1026	57	57	351	351	566	566	571	
268+00 - 293+00 NB	611	611	611	170	170	1286	1286	307	307	2262	
293+00 - 318+00 NB	885	885	885	210	210	973	973	2167	2167	3300	
318+00 - 343+00 NB	1298	1298	1298	87	87	659	659	71	71	28	
343+00 - 368+00 NB	98	98	98	35	35	129	129	415	415	610	
368+00 - 393+00 NB	756	756	756	13	13	387	387	142	142	386	
393+00 - 418+00 NB	266	266	266	98	98	0	0	167	167	319	
418+00 - 443+00 NB	455	455	455	53	53	482	482	433	433	1328	
443+00 - 468+00 NB	354	354	354	137	137	1324	1324	712	712	2300	
468+00 - 485+00 NB	58	58	58	42	42	258	258	0	0	883	
TEMPORARY SEDIMENT TRAP (STA 306+00)											
SEDIMENT BASIN STA (313+00)								735	735	735	
RIP RAP SILT TRAP (STA 314+50-321+50)											
STRUCTURES											
UNDISTRIBUTED (25% ADDITIONAL)	2865	2865	2865	390	390	2125	2125	1700	1700	3805	500
TOTALS	14323	14323	14323	1949	1949	10624	10624	8499	8499	* 19024	500

NOTE: SEE EROSION CONTROL PLAN FOR VARIOUS LOCATIONS

* SEE LANDSCAPING TABLE FOR ADDITIONAL QUANTITY

PLOT SCALE: PLOT NAME: REV. DATES
LEVELS ON - 1,2,3,4,5,6,7,8,9,10,11,12,13,14,15,16,17,18,19,20,21,22,23,24,25,26,27,28,29,30,31,32,33,34,35,36,37,38,39,40,41,42,43,44,45,46,47,48,49,50,51,52,53,54,55,56,57,58,59,60,61,62,63
FILE NAME: HDGN:d2 22400736a:qty70.dgn

EROSION CONTROL TABLE (CON'T)

LOCATION (STA. TO STA.)	RIP RAP 60601 C.Y.	RIP RAP MEDIUM RANDOM 60604 C.Y.	TEMPORARY STONE DITCH CHECKS 90005 C.Y.	GEOTEXTILE FABRIC, TYPE DF 64503 S.Y.	R 64505 S.Y.	SAS 64501 S.Y.	MOBILIZATIONS, EMERGENCY EROSION CONTROL *62821 EACH	MOBILIZATIONS, EROSION CONTROL *62819 EACH
88+00 - 100+00 SB	7		6		22			
100+00 - 125+00SB	16		0		49			
125+00 - 150+00SB	5		0		14			
150+00 - 162+00SB	0		0		0	556		
162+00 - 168+00NB & SB	0		0		0			
168+00 - 193+00NB	7		0		22			
193+00 - 218+00NB	24		17		72	556		
218+00 - 243+00NB	0		0		0			
243+00 - 268+00NB	0		16		0			
268+00 - 293+00NB	28		63		85			
293+00 - 318+00NB	0		81		0			
318+00 - 343+00NB	5		0		14			
343+00 - 368+00NB	0		10		0			
368+00 - 393+00NB	0		16		0			
393+00 - 418+00NB	6		10		18			
418+00 - 443+00NB	0		30		0			
443+00 - 468+00NB	27		52		80			
468+00 - 485+00NB	6		57		18			
TEMPORARY SEDIMENT TRAP ** (STA 306+00)	18							
SEDIMENT BASIN STA (313+00) **	13	87			181			
RIP RAP SILT TRAP ** (STA 314+50-321+50)	1275				6750			
STRUCTURES UNDISTRIBUTED (25% ADDITIONAL)	359	22	90	1473	144	278	25	18
TOTALS	1796	109	448	1473	7469	1390	25	18

** QUANTITIES LISTED ELSEWHERE

LEVELS ON - 1,2,3,4,5,6,7,8,9,10,11,12,13,14,15,16,17,18,19,20,21,22,23,24,25,26,27,28,29,30,31,32,33,34,35,36,37,38,39,40,41,42,43,44,45,46,47,48,49,50,51,52,53,54,55,56,57,58,59,60,61,62,63

TEMPORARY SEDIMENT TRAP STA. 306+00 - 1 LUMP SUM

UNCL. EXC. ⊛ C.Y.	FILL ADJUSTED ⊛ C.Y.	SALVAGED TOPSOIL ⊛ S.Y.	*62702 MULCHING ** S.Y.	*63002 SEEDING (NO. 10 MIXTURE) ** LB.	*90004 *60601 RIPRAP * ** C.Y.	*90416 COURSE AGGR. NO. 2 ** C.Y.	MAINTENANCE (CLEAN OUTS) ⊛ EACH
259	298	564	564	8	18	10	2

* QUANTITY INCLUDED ELSEWHERE
** QUANTITIES TO BE PAID FOR UNDER THEIR RESPECTIVE BID ITEMS
⊛ NON-PAY ITEMS-INCLUDED IN THE LUMP SUM

TEMPORARY RIPRAP
SILT TRAP - 1 LUMP SUM
*90002

*60601 RIPRAP ** C.Y.	*64505 GEOTEXTILE FABRIC, TYPE R ** S.Y.
1275	6750

** QUANTITIES LISTED ELSEWHERE

PERMANENT DETENTION BASIN STA. 313+00 - 1 LUMP SUM

UNCL. EXC. ⊛ C.Y.	FILL ADJUSTED ⊛ C.Y.	SALVAGED TOPSOIL ⊛ S.Y.	*63101 SODDING * ** S.Y.	*62830 EROSION MAT CLASS II, DELIVERED ** S.Y.	*62831 TYPE A INSTALLED ** S.Y.	*60604 MEDIUM RANDOM RIPRAP * ** C.Y.	*60601 RIPRAP * ** C.Y.	*90416 COURSE AGGR. NO. 2 ** C.Y.	*61212 PIPE UNDERDRAIN, UNPERFORATED 8-INCH ** L.F.	*61202 PIPE UNDERDRAIN, 8-INCH ** L.F.	*60826 R.C.P.S.S., CLASS III, 18-INCH * ** L.F.	*90007 CATCH BASIN TYPE 5, MODIFIED * ** EACH	*90006 CONCRETE ANTI-SEEP COLLAR ** EACH	*64505 GEOTEXTILE FABRIC, TYPE R * ** S.Y.	MAINTENANCE (CLEAN OUTS) ⊛ EACH
1500	125	735	735	735	735	87	13	10	30	22	55	1	2	181	4

* QUANTITY LISTED ELSEWHERE
** DENOTES QUANTITIES TO BE PAID FOR UNDER THEIR RESPECTIVE BID ITEMS
⊛ NON-PAY ITEMS-INCLUDED IN THE LUMP SUM

PLOT SCALE: 1
LEVELS ON - 1,2,3,4,5,6,7,8,9,10,11,12,13,14,15,16,17,18,19,20,21,22,23,24,25,26,27,28,29,30,31,32,33,34,35,36,37,38,39,40,41,42,43,44,45,46,47,48,49,50,51,52,53,54,55,56,57,58,59,60,61,62,63

MISCELLANEOUS QUANTITIES

S.T.H. 36 RACINE

SETTLEMENT GAUGES 90328

LOCATION	EACH
STA. 185 + 00 NB	1
STA. 196 + 00 NB	1
STA. 198 + 00 NB	1
STA. 200 + 00 NB	1
STA. 214 + 00 NB	1
STA. 315 + 00 NB	1
STA. 318 + 00 NB	1
STA. 324 + 00 NB	1
STA. 341 + 00 NB	1
STA. 387 + 00 NB	1
STA. 443 + 00 NB	1
STA. 466 + 38 NB	1
STA. 479 + 00 NB	1
TOTAL	13

NOTE: LOCATION NORTHBOUND; 22' TO 60' RIGHT OF REFERENCE LINE. ACTUAL LOCATION TO BE DETERMINED BY THE PROJECT MANAGER. THE SETTLEMENT GAUGES WILL BE INSTALLED AT THE TOP OF THE EMBANKMENT FILL.

*BREAKER RUN STONE *30426

LOCATION (STA-STA)	TONS
UNDISTRIBUTED	5334

* FOR SUBGRADE REINFORCEMENT

LOCATION	* *40204 ASPHALTIC MATERIAL FOR TACK COAT GAL	*41101 ASPHALTIC SURFACE TON
83+00-88+00	12	115
88+00-115+00	196	1840
146+00-162+00	110	1030
167+00-181+00	29	275
TEUT ROAD	3	25
RIVER ROAD	29	275
CTH J	22	205
CTH D	24	225
STH 20	18	170
MAIN ST	36	335
STH 164/CTH K	22	210
KRAMER ROAD	29	270
TOTALS	530	4975

* QUANTITY REFLECTS APPLICATION FOR THREE LAYERS AT 0.02 GALS./S.Y.

CRUSHED AGGREGATE BASE COURSE *30404

LOCATION	TON
MAINLINE	
81+50-83+00 SB	122
83+00-89+00 SB	1511
[illegible]-117+00 SB	10[illegible]
117+00-160+00 SB	18178
168+00-485+00 NB	143331
SIDEROADS	
TEUT ROAD	83
RIVER ROAD	448
CTH J	[illegible]
CTH D	572
STH 20	419
MAIN ST	662
STH 164	435
KRAMER ROAD	565
DRIVEWAYS	291
TEMP. ROADS	1765
TOTALS	179669

CONCRETE ITEMS

LOCATION	SURFACE DRAINS *41534 C.Y	CURB & GUTTER 18-INCH, TYPE D *60120 L.F.	CURB & GUTTER 30-INCH, TYPE A *60123 L.F.	CURB & GUTTER 30-INCH, TYPE D *60133 L.F.	CURB & GUTTER 36-INCH, TYPE D *60170 L.F.	PAVEMENT TIES *41571 EACH
89+00-101+50			850	1650		285
RIVER ROAD	4.0				133	
CTH J	2.6				134	
CTH D	5.6				127	
STH 20	2.0			50	133	
MAIN ST.	4.2	98			118	
STH 164/CTH K	2.5				134	
KRAMER ROAD		94			123	
TOTALS	20.9	192	850	1700	902	285

SEE 20 SCALE INTERSECTION DETAILS FOR EXACT LOCATIONS

WATER *62401

LOCATION	MGAL
UNDISTRIBUTED	1740

CALCIUM CHLORIDE SURFACE TREATMENT *62301

LOCATION	TON
UNDISTRIBUTED	17

*62101 LANDMARK REFERENCE MONUMENTS

LOCATION	EACH
81+36.03 (PC)	1
91+10.14 (PI)	1
*100+73.80 (PT)	1
186+16.24 (PC)	1
*221+80.90 (PT)	1
295+90.92 (PC)	1
*355+92.11 (PT)	1
377+34.92 (PC)	1
*388+85.81 (PT)	1
446+69.60 (PC)	1
462+92.33 (PI)	1
*478+93.62 (PT)	1
TOTALS	12

* DENOTES EQUATION POINTS

LANDSCAPING ITEMS

LOCATION	*62505 SALVAGED TOPSOIL S.Y.	*63101 SODDING S.Y.	*62702 MULCHING S.Y.	*63002 SEEDING L.B.	*62905 FERTILIZER TYPE B CWT
82+00-107+00	19260	835	18425	332	12.1
107+00-132+00	15780	0	15780	285	9.9
132+00-157+00	12940	0	12940	233	8.2
157+00-182+00	8920	0	8920	161	5.6
182+00-207+00	16980	0	16980	306	10.7
207+00-232+00	16760	0	16760	302	10.6
232+00-257+00	14740	45	14695	265	9.3
257+00-282+00	19690	45	19645	354	12.4
282+00-307+00	18090	45	18045	325	11.4
307+00-332+00	17980	0	17980	330	11.4
332+00-357+00	17490	45	17445	314	11.1
357+00-382+00	18050	0	18050	325	11.5
382+00-407+00	15580	40	15540	280	9.9
407+00-432+00	20310	45	20265	365	12.9
432+00-457+00	13860	45	13815	249	8.8
487+00-485+00	19910	0	19910	359	12.8
BORROW PITS			5972	6	0.4
TOTALS	266340	* 1145	**271167	**4791	169

* SEE EROSION CONTROL TABLE FOR ADDITIONAL QUANTITY

** 10% UNDISTRIBUTED IS INCLUDED

LEVELS ON - 1,2,3,4,5,6,7,8,9,10,11,12,13,14,15,16,17,18,19,20,21,22,23,24,25,26,27,28,29,30,31,32,33,34,35,36,37,38,39,40,41,42,43,44,45,46,47,48,49,50,51,52,53,54,55,56,57,58,59,60,61,62,63

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TRAFFIC CONTROL

LOCATION	*64313 DRUMS DAYS	*64326 SIGNS DAYS	*64323 WARNING LIGHTS TYPE C DAYS	*64321 WARNING LIGHTS TYPE A DAYS	*64318 BARRICADES TYPE III DAYS
70+00-120+00 (TEUT ROAD)					
STAGE I	7387	996	5063	1494	581
STAGE II	27840	4032	23424	6528	2496
120+00-141+00	6050				
141+00-185+00, (CTH W)					
STAGE I	10835	440	10560	550	220
STAGE II	16280	2970	14080	4840	1980
STAGE III	21560	2860	19910	4620	1870
185+00-235+00	14025				
235+00-245+00, (RIVER ROAD)	9625	2200	8250	3850	1650
245+00-271+00	7425				
271+00-281+00, (CTH J)	9625	2200	8250	3850	1650
281+00-292+00	3300				
292+00-302+00, (CTH D)	9625	2200	8250	3850	1650
302+00-340+00	10725				
340+00-350+00, (STH 20)	9625	2200	8250	3850	1650
350+00-384+00	9625				
384+00-394+00, (MAIN ST)	9625	2200	8250	3850	1650
394+00-424+00	8525				
424+00-434+00,CTHK/STH164)	9625	2200	8250	3850	1650
434+00-443+00	2750				
443+00-453+00, (KRAMER ROAD)	9625	2200	8250	3850	1650
453+00-485+00	9075				
TOTALS	222777	26698	130787	44982	18697

LOCATION	*64499 TEMPORARY PAVEMENT MARKING, RAISED MARKERS EACH	*64402 PAVEMENT MARKING, COLD PAINT C/L L.F.	*64402 PAVEMENT MARKING, COLD PAINT EDGELINE L.F.	*64425 PAVEMENT MARKING, STOP LINE, COLD PAINT 18-INCH L.F.	*64487 REMOVING PAVEMENT MARKINGS L.F.
70+00-120+00 (TEUT ROAD)					
STAGE I					
STAGE II	17	7120	7005	20	1375
120+00-141+00					
141+00-185+00, (CTH W)					
STAGE I					
STAGE II	19	7340	5600		5020
STAGE III	21	8150	6150		4515
185+00-235+00					
235+00-245+00, (RIVER ROAD)		600	195	20	
245+00-271+00					
271+00-281+00, (CTH J)		440	330	20	
281+00-292+00					
292+00-302+00, (CTH D)		480	435	20	240
302+00-340+00					
340+00-350+00, (STH 20)		340	395	20	240
350+00-384+00					
384+00-394+00, (MAIN ST)		660	405	20	240
394+00-424+00					
424+00-434+00,CTHK/STH164)		460	495	20	400
434+00-443+00					
443+00-453+00, (KRAMER ROAD)		560	150	20	
453+00-485+00					
SUBTOTALS	57	26150	21160	160	12030
TOTALS		47310			

SIGNS AND DELINEATORS

LOCATION	*63822 MOVING SIGNS, TYPE II EACH	63301 DELINEATOR POSTS EACH	63305 DELINEATORS EACH
TEUT ROAD			
STAGE I	1		
STAGE II	1		
RIVER ROAD	2		
CTH J	2		
CTHD	2	3	3
STH 20	2		
MAIN STREET	2	3	3
CTH K / STH 164	2		
KRAMER ROAD	2	3	3
TOTALS	16	9	9

LEVELS ON - 1,2,3,4,5,6,7,8,9,10,11,12,13,14,15,16,17,18,19,20,21,22,23,24,25,26,27,28,29,30,31,32,33,34,35,36,37,38,39,40,41,42,43,44,45,46,47,48,49,50,51,52,53,54,55,56,57,58,59,60,61,62,63

PIPE SUMMARY

REINF. CONC. CULVERT PIPE							STORM SEWER											
*52201 RCCP CLASS III, 12-INCH L.F.	*52202 RCCP CLASS III, 15-INCH L.F.	*52203 RCCP CLASS III, 18-INCH L.F.	*52205 RCCP CLASS III, 24-INCH L.F.	*52207 RCCP CLASS III, 30-INCH L.F.	*52209 RCCP CLASS III, 36-INCH L.F.	*52229 RCCP CLASS IV, 24-INCH L.F.	*52336 REINF. CONC. HOR. ELLIP. CULVERT PIPE CLASS HE-III 19x30-INCH L.F.	*60825 RCP, CLASS III, STORM SEWER 12-INCH L.F.	*60826 RCP, CLASS III, STORM SEWER 15-INCH L.F.	*60827 RCP, CLASS III, STORM SEWER 18-INCH L.F.	*60829 RCP, CLASS III, STORM SEWER 24-INCH L.F.	*60831 RCP, CLASS IV, STORM SEWER 30-INCH L.F.	*60833 RCP, CLASS IV, STORM SEWER 36-INCH L.F.	*61002 REINFORCED CONCRETE ELLIPTICAL PIPE CLASS HE-III STORM SEWER 19x30-INCH L.F.	*61004 24x38-INCH L.F.	*61006 29x45-INCH L.F.	*20901 GRANULAR BACKFILL C.Y.	*90545 CONCRETE COLLAR EACH	PIPE** JOINT TILE EACH
20	8	16	520	177	84	80	128	650	239	55	2462	698	367	465	89	88	480	6	4**

** NOT A BID ITEM

ENDWALL SUMMARY

REINFORCED CONCRETE APRON ENDWALLS FOR CULVERT PIPE						REINFORCED CONCRETE APRON ENDWALLS FOR HORIZONTAL ELLIPTICAL CULVERT PIPE			SALVAGED APRON ENDWALLS FOR CULVERT PIPE			
12-INCH *52260 EACH	15-INCH *52261 EACH	18-INCH *52262 EACH	24-INCH *52264 EACH	30-INCH *52266 EACH	36-INCH *52267 EACH	19x30-INCH *52361 EACH	24x38-INCH *52363 EACH	29x45-INCH *52365 EACH	18-INCH *52472 EACH	24-INCH *52474 EACH	30-INCH *52475 EACH	36-INCH *52476 EACH
2	3	2	28	2	1	10	1	1	1	10	8	5

STRUCTURE SUMMARY

INLETS AND MANHOLES					COVERS			
*61123 INLETS TYPE 8 EACH	*61124 INLETS TYPE 9 EACH	*61147 INLETS TYPE 2 EACH	*61110 MANHOLES TYPE 1 EACH	*61112 MANHOLES TYPE 3 EACH	*61170 INLET COVERS TYPE MS EACH	*61171 INLET COVERS TYPE WM EACH	*61179 INLET COVERS TYPE S EACH	*61151 MANHOLES COVERS TYPE J EACH
27	11	4	7	6	51	8	6	3

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DRAINAGE TABLE

STRUCTURES

STRUCTURE NO.	LOCATION	TYPE INL.	TYPE MH	COVER	GRATE EL.	DEPTH FT.	REMARKS
1D	92 + 50 27.29' LT	2		WM	765.8	3.03	
1C	90 + 00 21.22' LT	2		WM	764.31	4.82	
1B	88 + 01 63' LT		1	WM	763.24	5.66	
1A	88 + 00 16.36' LT		1	WM	763.47	*6.42	BUILD OVER EXIST 36"
1	88 + 00 31.91' RT		1	WM	763.47	*7.22	BUILD OVER EXIST 36"
2A	95 + 00 34.55' LT	2		WM	766.83	2.78	
2B	99 + 00 47.98' LT	2		WM	768.26	3.01	
2	96 + 60 39.67' LT		1	WM	767.50	4.05	
4	115 + 00 25' LT		3	J	764.7	*3.45	BUILD OVER EXIST. 36"
7	126 + 00 5' RT	8		MS	765.6	2.40	
8	130 + 00 5' RT	8		MS	767.8	3.00	
9	147 + 00 5' RT	8		MS	768.7	*2.90	BUILD OVER EXIST. 24"

PIPES

PIPE NO.	FROM	TO	DIA. IN.	CLASS RCPSS	CLASS RCCP	LENGTH FT.	INLET ELEV.	DISCH. ELEV.	GRANULAR BACKFILL C.Y.	REMARKS
P-1D	1D	1C	12"	III		250'	761.70	758.64		
P-1C	1C	1A	15"	III		200'	758.64	757.64		
P-1B	LEFT DITCH	1B	36"	III		41'	757.10	756.73		SALVAGED AEW 88+24, 98'LT
P-1A	1B	EXIST 36"	36"	III		27'	756.73	756.5		MATCH EXIST PIPE ELEV.
P-1	1	DISCHARGE	36"	III		28'	755.4	755.4		MATCH EXIST PIPE ELEV. SALVAGED AEW
P-2	LEFT DITCH	2	24"	III		50'	762.8	762.6		SALVAGED AEW
P-2A	2A	2	12"	III		160'	763.2	762.7		
P-2B	2B	2	12"	III		240'	764.4	762.7		
P-2C	2	EXIST 24"	24"	III		23'	762.6	762.5		MATCH EXIST PIPE ELEV. CONCRETE COLLAR REQ'D
P-3A	MEDIAN DITCH	EXIST 30"	15"		III	8'	764.2	764.1		CONCRETE COLLAR REQ'D
P-3	LEFT DITCH	EXIST 30"	30"		III	90'	763.2	*763.0	40.7	MATCH EXIST PIPE ELEV.
P-4A	MEDIAN DITCH	4	15"	III		18'	762.0	761.7		
P-4	LEFT DITCH	4	45" x 29"	HE-III		88'	760.7	*760.5		MATCH EXIST PIPE ELEV.
P-5	MEDIAN DITCH	DISCHARGE	30" x 19"		HE-II	64'	761.6	761.5	26.8	
P-6	LEFT DITCH	EXIST 36"	36"		III	84'	762.0	*762.0	48.3	MATCH EXIST PIPE ELEV.
P-7	7	DISCHARGE	24"	III		80'	763.2	763.0		
P-8	8	DISCHARGE	24"	III		83'	764.8	764.4		
P-9	9	DISCHARGE	24"	III		82'	*765.8	765.8		MATCH EXIST PIPE ELEV. SALVAGED AEW
P-10	MEDIAN DITCH	DISCHARGE	30" x 19"		HE-II	64'	767.2	767.1	26.4	
P-11	EXIST 24"	DISCHARGE	24"		III	16'	*765.0	765.0	4.9	MATCH EXIST PIPE ELEV. SALVAGED AEW

* VERIFY IN FIELD

LEVELS ON - 1,2,3,4,5,6,7,8,9,10,11,12,13,14,15,16,17,18,19,20,21,22,23,24,25,26,27,28,29,30,31,32,33,34,35,36,37,38,39,40,41,42,43,44,45,46,47,48,49,50,51,52,53,54,55,56,57,58,59,60,61,62,63

STRUCTURES

STRUCTURE NO.	LOCATION	TYPE INL.	TYPE MH	COVER	GRATE EL.	DEPTH FT.	REMARKS
13	175 + 00 6' LT	8		MS	777.7	2.50	
14	185 + 00 6' LT		3	S	778.4	3.40	
15	193 + 19 6' LT	9		2-MS	775.0	3.10	BUILD OVER EXIST. PIPE
16	203 + 45 4' LT		3	S	766.2	6.30	BUILD OVER EXIST. 36"
17	206 + 00 4' LT	8		MS	765.3	3.80	
18	209 + 00 8' LT	9		2-MS	765.4	3.70	BUILD OVER EXIST. 30"
19	214 + 00 6' LT	8		MS	766.5	4.20	
20	221 + 00 4' LT	8		MS	766.8	3.30	
21	224 + 00 8' LT	8		MS	766.1	3.90	
22	241 + 00 6' LT	8		MS	769.4	2.30	
23	253 + 00 6' LT	8		MS	771.0	*2.80	BUILD OVER EXIST. 24"
25	270 + 16 6' LT	9		2-MS	782.5	2.40	
26A	277 + 03 6' LT	9		2-MS	782.5	2.40	
26	277 + 03 19' LT		3	J	802.7	*2.95	BUILD OVER EXIST 30"
27	286 + 97 6' LT	8		MS	819.2	2.30	
28	296 + 00 11' LT	8		MS	813.8	2.70	

DRAINAGE TABLE

PIPES

PIPE NO.	FROM	TO	DIA. IN.	CLASS RCPSS	CLASS RCCP	LENGTH FT.	INLET ELEV.	DISCH. ELEV.	GRANULAR BACKFILL C.Y.	REMARKS
P-12	EXIST 18"	DISCHARGE	18"		III	16'	*766.8	766.8	2.4	MATCH EXIST PIPE ELEV. SALVAGED AEW
P-13	13	DISCHARGE	24"	III		82'	775.2	774.7		
P-14A	EXIST 36"	14	36"	III		6'	*776.2	774.5		MATCH EXIST PIPE ELEV. CONCRETE COLLAR REQ'D
P-14	14	DISCHARGE	36"	III		90'	774.5	772.4		SALVAGED AEW
P-15	15	DISCHARGE	30"	III		91'	771.9	771.8		MATCH EXIST. SKEW OF 22 DEGREES RHF SALVAGED AEW
P-16	16	DISCHARGE	36"	III		97'	759.4	758.5		SALVAGED AEW
P-17	17	DISCHARGE	24"	III		91'	761.5	759.8		
P-18	18	DISCHARGE	30"	III		91'	761.7	760.7		SALVAGED AEW
P-19	19	DISCHARGE	24"	III		98'	762.3	760.2		
P-20	20	DISCHARGE	24"	III		85'	763.5	762.6		
P-500	RIGHT DITCH	DISCHARGE	24"		III	112'	766.5	766.0	34.4	SKEW 25 DEGREES RHF STA. 17+75, RIVER RD.
P-21	21	DISCHARGE	24"	III		90'	762.2	761.7		
P-22	22	DISCHARGE	24"	III		81'	767.1	766.8		
P-23	23	DISCHARGE	24"	III		84'	768.2	767.6		SALVAGED AEW
P-24B	MEDIAN DITCH	EXIST 30"	12"		III	10'	771.0	770.1		CONCRETE COLLAR REQ'D
P-24A	MEDIAN DITCH	EXIST 30"	12"		III	10'	771.0	770.1		CONCRETE COLLAR REQ'D
P-24	RIGHT DITCH	EXIST 30"	30"		III	87'	769.5	*769.3	40.7	MATCH EXIST. PIPE ELEV. SALVAGED AEW
P-25A	EXIST 30"	25	30"	III		5'	*780.1	780.1		MATCH EXIST. PIPE ELEV.
P-25	25	DISCHARGE	30"	III		80'	780.1	779.7		SALVAGED AEW
P-26A	RIGHT DITCH	26A	38" x 24"	HE-III		76'	779.0	779.0		MATCH SKEW OF EXIST. PIPE
P-26	26A	26	38" x 24"	HE-III		13'	779.0	779.0		
P-27A	RIGHT DITCH	27	24"	III		77'	817.0	816.9		
P-27	27	EXIST 24"	24"	III		9'	816.9	*816.9		MATCH EXIST. PIPE ELEV. CONCRETE COLLAR REQ'D

* VERIFY IN FIELD

LEVELS ON • 1,2,3,4,5,6,7,8,9,10,11,12,13,14,15,16,17,18,19,20,21,22,23,24,25,26,27,28,29,30,31,32,33,34,35,36,37,38,39,40,41,42,43,44,45,46,47,48,49,50,51,52,53,54,55,56,57,58,59,60,61,62,63

STRUCTURES

STRUCTURE NO.	LOCATION	TYPE INL.	TYPE MH	COVER	GRATE EL.	DEPTH FT.	REMARKS
29	305 + 00 6' LT	8		MS	794.7	2.70	
30	310 + 00 6' LT	8		MS	784.2	4.20	
502	313 + 00 97' RT	5		2-MS	775.7	5.70	MODIFIED CATCH BASIN
31	319 + 00 6' LT	8		MS	775.1	3.10	
32	329 + 00 6' LT	8		MS	778.9	5.90	
33	341 + 00 8' LT	8		MS	779.7	*9.00	BUILD OVER EXIST. 24"
34	351 + 00 7' LT	8		MS	779.6	3.00	
35	354 + 00 8' LT		1	S	780.3	4.90	BUILD OVER EXIST. 30"
36	358 + 00 6' LT	9		2-MS	778.8	1.80	
37	363 + 00 4' LT	9		2-MS	779.0	1.50	
39	370 + 00 6' LT	8		MS	782.0	2.40	
40	376 + 00 6' LT	8		MS	784.4	2.70	
41	383 + 00 4' LT	9		2-MS	784.6	1.70	
42	387 + 00 8' RT	8		MS	783.4	3.40	

DRAINAGE TABLE — PIPES

PIPE NO.	FROM	TO	DIA. IN.	CLASS RCPSS	CLASS RCCP	LENGTH FT.	INLET ELEV.	DISCH. ELEV.	GRANULAR BACKFILL C.Y.	REMARKS
P-28	28	DISCHARGE	24"	III		88'	811.1	810.6		
P-501	RIGHT DITCH	DISCHARGE	24"		III	112'	808.5	806.5	38.8	SKEW 17 DEGREES LHF
P-29	29	DISCHARGE	24"	III		78'	792.0	791.5		
P-30	30	DISCHARGE	24"	III		86'	780.0	779.0		
P-502	502	DISCHARGE	18"	III		55'	772.0	771.8		
P-31	31	DISCHARGE	24"	III		140'	772.0	771.0		PARALLEL TO ROADWAY
P-32	32	DISCHARGE	24"	III		85'	774.0	773.5		
P-33	33	DISCHARGE	24"	III		107'	*770.7	770.6		MATCH EXIST. PIPE ELEV.
P-34	34	DISCHARGE	24"	III		81'	776.6	776.4		
P-35	RIGHT DITCH	35	30"	III		84'	775.5	*774.9		MATCH EXIST. PIPE ELEV.
P-36	36	DISCHARGE	30" x 19"	HE-III		78'	777.0	776.7		
P-37	37	DISCHARGE	30" x 19"	HE-III		73'	777.5	777.4		
P-38	RIGHT DITCH	EXIST 24"	24"		III	80'	777.0	*776.0	36.3	MATCH EXIST. PIPE ELEV. SALVAGED AEW
P-39	39	DISCHARGE	24"	III		80'	779.6	779.3		
P-40	RIGHT DITCH	40	24"	III		83'	782.0	781.7		SALVAGED AEW
P-40A	40	EXIST 24"	24"	III		4'	781.7	*781.7		MATCH EXIST. PIPE ELEV.
P-41	41	DISCHARGE	30" x 19"	HE-III		79'	782.9	782.7		
P-42	42	DISCHARGE	24"	III		97'	780.0	779.2		
P-43A	RIGHT DITCH	43	24"	III		83'	779.1	778.1		MATCH SKEW OF EXIST. 24" SALVAGED AEW

* VERIFY IN FIELD

LEVELS ON • 1,2,3,4,5,6,7,8,9,10,11,12,13,14,15,16,17,18,19,20,21,22,23,24,25,26,27,28,29,30,31,32,33,34,35,36,37,38,39,40,41,42,43,44,45,46,47,48,49,50,51,52,53,54,55,56,57,58,59,60,61,62,63

DRAINAGE TABLE

STRUCTURES

STRUCTURE NO.	LOCATION	TYPE INL.	TYPE MH	COVER	GRATE EL.	DEPTH FT.	REMARKS
43	391.07 6'	8		MS	781.9	3.10	
44	397 + 00 6' LT	9		2-MS	779.2	2.90	
45	406 + 00 6' LT	9		2-MS	775.9	1.80	
46	413 + 84 75' LT		1	S	773.4	*3.10	BUILD OVER EXIST. 30" PIPE
47	418 + 00 6' LT	9		2-MS	773.2	1.70	
48	420 + 00 16' LT		3	J	775.3	*2.45	BUILD OVER EXIST. 24" PIPE
50	433 + 00 6' LT	8		MS	776.0	*3.90	BUILD OVER EXIST. 24" PIPE
51	438 + 00 6' LT		3	S	778.4	*4.70	BUILD OVER EXIST. 36" PIPE
52	449 + 00 6' LT	8		MS	796.7	2.30	
53	455 + 00 6' LT	9		2-MS	804.3	*3.20	BUILD OVER EXIST. 30" PIPE
54	466 + 38 6' LT		1	S	813.0	*7.70	BUILD OVER EXIST. 30" PIPE
55	472 + 00 6' LT	8		MS	814.2	3.00	
56	476 + 00 6' LT	8		MS	814.2	3.00	
58	485 + 00 6' LT	8		MS	810.5	3.00	

PIPES

PIPE NO.	FROM	TO	DIA. IN.	CLASS RCPSS	CLASS RCCP	LENGTH FT.	INLET ELEV.	DISCH. ELEV.	GRANULAR BACKFILL C.Y.	REMARKS
P-43	43	EXIST 24"	24"	III		4'	778.8	*778.7		MATCH EXIST. PIPE ELEV.
P-44A	RIGHT DITCH	44	30"	III		76'	777.5	776.3		SALVAGED AEW
P-44	44	EXIST 30"	30"	III		3'	776.3	*776.2		MATCH EXIST. PIPE ELEV.
P-45	45	DISCHARGE	30" x 19"	HE-III		78'	774.1	773.8		
P-46	46	DISCHARGE	30"	III		81'	769.8	769.8		SALVAGED AEW
P-47	47	DISCHARGE	30" x 19"	HE-III		75'	771.5	771.4		
P-48A	MEDIAN DITCH	48	15"	III		21'	773.0	772.5		
P-48	RIGHT DITCH	48	30" x 19"	HE-III		82'	772.4	772.1		
P-49	RIGHT DITCH	EXIST. 24"	24"		III	80'	773.2	*772.1		MATCH EXIST. PIPE ELEV. SALVAGED AEW
P-504	RIGHT DITCH	DISCHARGE	24"		III	120'	774.5	774.0	30.3	STA. 109+64 CTH "K"
P-50	RIGHT DITCH	50	24"	III		85'	772.5	772.1		MATCH EXIST. PIPE ELEV. SALVAGED AEW
P-51	RIGHT DITCH	51	36"	III		78'	775.0	*773.2		MATCH EXIST. PIPE ELEV. SALVAGED AEW
P-52	52	DISCHARGE	24"	III		110'	794.4	793.5		SKEW OF 28.5 DEGREES RHF
P-53	53	DISCHARGE	30"	III		94'	*801.1	797.0		MATCH EXIST. PIPE ELEV. SALVAGED AEW
P-54	RIGHT DITCH	54	30"	III		93'	805.7	*804.8		MATCH EXIST. PIPE ELEV. SALVAGED AEW
P-55	55	DISCHARGE	24"	III		78'	811.2	810.9		
P-56	56	DISCHARGE	24"	III		77'	811.2	810.9		
P-57	RIGHT DITCH	EXIST. 24"	24"		IV	80'	804.0	*801.3		MATCH SKEW OF EXIST. PIPE SALVAGED AEW
P-58	58	DISCHARGE	24"	III		81'	807.5	807.0		

* VERIFY IN FIELD

LEVELS ON - 1,2,3,4,5,6,7,8,9,10,11,12,13,14,15,16,17,18,19,20,21,22,23,24,25,26,27,28,29,30,31,32,33,34,35,36,37,38,39,40,41,42,43,44,45,46,47,48,49,50,51,52,53,54,55,56,57,58,59,60,61,62,63

STATE PROJECT NUMBER	SHEET NO.
2240-07-70	5.0
PLAN & PROFILE	
S.T.H. 36	RACINE CO.

BENCH MARKS

NO.	STATION	DESCRIPTION	ELEV.
3	87+53	RR SPIKE WEST SIDE OF PP, 95'± RT. OF ℄	758.87

N 37° 5' 43" E

STH 36 E

N 20° 33' 4

67-98.60

72" RCP

PC 87+06.45

PI STATION = 88+21.49 (TEMP. CROSSOVER)
DELTA = 4°23'30.64"RT
DEGREE OF CURVE = 1°54'35.49"
TANGENT = 115.03
LENGTH = 229.96
RADIUS = 3000.00
PC STATION = 87+06.45 (TEMP. CROSSOVER)
PT STATION = 89+36.41 (TEMP. CROSSOVER)

36"X43" P-1B

1B

BEGIN STA. 89+00
CONCRETE CURB AND GUTTER
30-INCH, TYPE "D"

36"X27" P-1A

1A

P-1C

SAWING PAVEMENT

BEGIN STA. 89+00
REVERSE SLOPE
CONCRETE CURB AND GUTTER
30-INCH, TYPE "D"

1

P-1

F/O SIGN POSTS

BEGIN PROJECT
2240-07-77

FINISHED PROFILE ON ℄

FINISHED-PROFILE-ON ℄
NB AND SB

EXISTING GROUND ON ℄

NEW 36" PIPE
SALVAGE EXISTING
ENDWALL

15" RCPSS CLASS III REQ'D.
NEW 15" PIPE

TYPE I MH

EXIST. 36" PIPE

TYPE I MH
36" RCCP CLASS III REQ'D.

NEW 36" PIPE
SALVAGE EXISTING
ENDWALL

FINISHED ELEVATIONS ON ℄ STH 36

761.54 762.05 762.55 763.06 763.56 764.07

764 762 760 766 758 756

83+00 84+00 85+00 86+00 87+00 88+00 89+00

LEVELS ON • 1,2,3,4,5,6,7,8,9,10,11,12,13,14,15,16,17,18,19,20,21,22,23,24,25,26,27,28,29,30,31,32,33,34,35,36,37,38,39,40,41,42,43,44,45,46,47,48,49,50,51,52,53,54,55,56,57,58,59,60,61,62,63

PLOT SCALE:

PLOT NAME:

REV. DATE: 01-20-95

ORIGINATOR: DISTRICT 2

FILE NAME: HDGN: d2 2240073&sspp504.dgn
PRO 1& 2 COPIED INTO SHEET FILE

WISDOT/CADDS SHEET 40

PI STATION	=	91+10.14 STH 36
DELTA	=	14°31'59.70"RT
DEGREE OF CURVE	=	0°45' 0.00"
TANGENT	=	974.11
LENGTH	=	1937.77
RADIUS	=	7639.44
PC STATION	=	81+36.03 STH 36
PT STATION	=	100+73.79 STH 36
SE	=	0.02 %

STATE PROJECT NUMBER	SHEET NO.
2240-07-70	S.1
PLAN & PROFILE	
S.T.H. 36	RACINE CO.

N 41° 29' 14" E

89+65.57

P-IC 15"X200'

P-ID 12"X250'

765.34

765.85

766.35

766.85

764.84

764.33

764.57

766.08

766.72

767.23

767.70

REVERSE SLOPE
CONCRETE CURB AND GUTTER
30-INCH, TYPE "D"

CONCRETE CURB AND GUTTER
30-INCH, TYPE "D"

STA. 93+00
SAWING PAVEMENT
END CURB & GUTTER TYPE "D"
BEGIN CURB & GUTTER TYPE "A"

REVERSE SLOPE
CONCRETE CURB AND GUTTER
30-INCH, TYPE "A"

℄ S.B.

℄ N.B.

STH 36 ℄

PT 89+36.41

90+00

91+00

92+00

93+00

94+00

95+00

STA. 92+50 (STH 36)
13' RT.

POINT OF BEGINNING

MATCH PROFILE
NB AND SB ℄
764.57

NB PROFILE ON ℄
WITH 3" OVERLAY

765.21 NB ℄

765.84 NB ℄

END NB GRADING
766.48 NB ℄

FINISHED PROFILE ON SB ℄

EXISTING GROUND ON SB ℄

E.O.S.

15" RCPSS REQ'D.

TYPE I INL.

12" RCPSS REQ'D.

TYPE I INL.

12" RCPSS REQ'D.

TYPE 2 INL.

FINISHED ELEVATIONS ON ℄ STH 36

764.57 | 765.08 | 765.58 | 766.09 | 766.59 | 767.09

768 | 766 | 764 | 762 | 760 | 758

PLOT SCALE:

PLOT NAME:

LEVELS ON • 1,2,3,4,5,6,7,8,9,10,11,12,13,14,15,16,17,18,19,20,21,22,23,24,25,26,27,28,29,30,31,32,33,34,35,36,37,38,39,40,41,42,43,44,45,46,47,48,49,50,51,52,53,54,55,56,57,58,59,60,61,62,63

FILE NAME: HDGN: d2 2240073&sspp505.dgn

STATE PROJECT NUMBER	SHEET NO.
2240-07-70	5.2
PLAN & PROFILE	
S.T.H. 36	RACINE CO.

P-2 24"X60'

P-2A 12"X160'

P-2B 12"X 240'

P-2C 24"X10'

2

2-B

℄ S.B.

767.29

767.68

768.01

768.28

768.50

REVERSE SLOPE
CONCRETE CURB & GUTTER
30-INCH TYPE "D"

REVERSE SLOPE
CONCRETE CURB & GUTTER
30-INCH TYPE "A"
768.84

100+80.77FWD

768.15

767.48

769.10

769.31

96+00

97+00

STH 36 ℄

98+00

℄ N.B.

99+00

100+00

STA 100+73.80 BK=
STA 100+80.77FWD. 42'LT.

EQUATION

BENCH MARKS

NO.	STATION	DESCRIPTION	ELEV.
4	96+32	RR SPIKE WEST SIDE OF PP. 75'± RT. OF ℄	761.54

WALL

R/W

SUPER ELEVATION TRANSITION

STA.	LT.	RT.	STA.	LT.	RT.
78 + 19.37	-0.020	-0.020	80 + 56.87	0.005	-0.020
78 + 66.87	-0.015	-0.020	81 + 4.37	0.010	-0.020
79 + 14.37	-0.010	-0.020	81 + 51.87	0.015	-0.020
79 + 61.87	-0.005	-0.020	81 + 99.37	0.020	-0.020
80 + 9.37	-0.000	-0.020			

FINISHED PROFILE ON ℄

EXISTING GROUND ON ℄

12" RCPSS REQ'D.

12" RCPSS REQ'D.

TYPE I INL.

24" x 60" RCCP EXT. REQ'D.
SALVAGE EXISTING ENDWALL
TYPE 3 MH

FINISHED ELEVATIONS ON ℄ STH 36

770
768
766
764
762

767.53 767.53 767.92 767.92 768.25 768.25 768.52 768.52 768.74 768.74 768.89 768.89

96+00 96+00 97+00 97+00 98+00 98+00 99+00 99+00 100+00 100+00 100+73.80

LEVELS ON - 1,2,3,4,5,6,7,8,9,10,11,12,13,14,15,16,17,18,19,20,21,22,23,24,25,26,27,28,29,30,31,32,33,34,35,36,37,38,39,40,41,42,43,44,45,46,47,48,49,50,51,52,53,54,55,56,57,58,59,60,61,62,63

FILE NAME: HDGN: d2 2240073&sspp506.dgn

STATE PROJECT NUMBER	SHEET NO.
2240-07-70	5.3
PLAN & PROFILE	
S.T.H.36	RACINE COUNTY

BENCH MARKS

NO.	STATION	DESCRIPTION	ELEV.
5	107+90 SIGN	RR SPIKE WEST SIDE OF PP, 64'± RT. OF ℄	768.75

STA. 101+50
END CONCRETE CURB AND GUTTER
30-INCH TYPE "D"

100+80.77FWD
768.65 768.73
769.30
100+00
769.31 769.30
STA 100+73.80 BK=
STA 100+80.77FWD, 42' LT.

STA. 101+50
END REVERSE SLOPE
CONCRETE CURB AND GUTTER
30-INCH TYPE "A"

RAILROAD BED

105'-00

STH 36

P-3A
15'X8'

℄ S.B.

110'-00

℄ N.B.

115'-00
15'X8'

P-3B
15'X8'

P.U.E.

P.U.

P.L.E.

P.&W.

WALK

30"x90"

STA = 103+00.00 STH 36 ℄
EL = 771.10
L = 1700.00
E = -2.04

30" x 90" RCCP CLASS III REQ'D.

FINISHED PROFILE ON ℄

EXISTING GROUND ON ℄

VPI 111+50.00
ELEV. 767.15

VPI 113+00.00
ELEV. 766.46

-0.4643 %

FINISHED ELEVATIONS ON ℄ STH 36

100+00	100+73.80BK=100+80.77FWD	105+00	110+00
768.68	768.78	768.86	768.91
768.97	769.01	769.04	769.06
769.06	769.04	769.02	768.98
768.92	768.85	768.77	768.67
768.56	768.43	768.29	768.14
767.97	767.79	767.59	767.38
767.15	766.92	766.69	766.46
766.24	766.05	765.90	

785 780 775 770 765 760 755 750 745

PLOT SCALE:

PLOT NAME:

LEVELS ON - 1,2,3,4,5,6,7,8,9,10,11,12,13,14,15,16,17,18,19,20,21,22,23,24,25,26,27,28,29,30,31,32,33,34,35,36,37,38,39,40,41,42,43,44,45,46,47,48,49,50,51,52,53,54,55,56,57,58,59,60,61,62,63

FILE NAME: HDGN:d2 2240073&8:PP507.dgn

WISDOT/CADDS SHEET 40

STATE PROJECT NUMBER	SHEET NO.
2240-07-70	S.4
PLAN & PROFILE	
S.T.H.36	RACINE COUNTY

BENCH MARKS

NO.	STATION	DESCRIPTION	ELEV.
6	117+75	RR SPIKE IN 12" MAPLE 95' RT. OF ℄	767.03
7	127+94	RR SPIKE NORTH SIDE OF PP, 63' RT. OF ℄	768.61

SIGN

N

P.U.

P.U.

P.U.

PLOT SCALE:

PLOT NAME:

LEVELS ON • 1,2,3,4,5,6,7,8,9,10,11,12,13,14,15,16,17,18,19,20,21,22,23,24,25,26,27,28,29,30,31,32,33,34,35,36,37,38,39,40,41,42,43,44,45,46,47,48,49,50,51,52,53,54,55,56,57,58,59,60,61,62,63

STATE PROJECT NUMBER	SHEET NO.
2240-07-70	S.5
PLAN & PROFILE	
S.T.H.36	RACINE COUNTY

BENCH MARKS

NO.	STATION	DESCRIPTION	ELEV.
8	137+30	RR SPIKE WEST SIDE OF 12" ELM 93'± RT. OF ℄	771.13

18"X77'
C-1
24"X83'
CP-8
8
P.U.E.
℄ S.B.
℄ N.B.
130+00
135+00
140+00
145+00
S.T.H. 36 ℄
N 51° 36' 20" E
S/O SIGN

STA = 139+50.00 STH 36 ℄
EL = 776.20
L = 1700.00
E = -2.15

VPC 134+00.00
ELEV. 771.82

24" X 83' RCPSS CLASS II REQ'D.
TYPE 6 MS INC.

MARSH EX.

FINISHED PROFILE ON ℄

EXISTING GROUND ON ℄

MARSH EXCAVATION

FINISHED ELEVATIONS ON ℄ STH 36

790 785 780 775 770 765 760 755 750

771.30 771.56 771.82 772.07 772.30 772.52 772.73 772.92 773.10 773.26 773.40 773.54 773.65 773.75 773.84 773.91 773.97 774.01 774.04 774.05 774.05 774.05 774.00 773.95 773.89 773.81 773.72 773.61 773.49 773.36 773.20

130+00 135+00 140+00 145+00

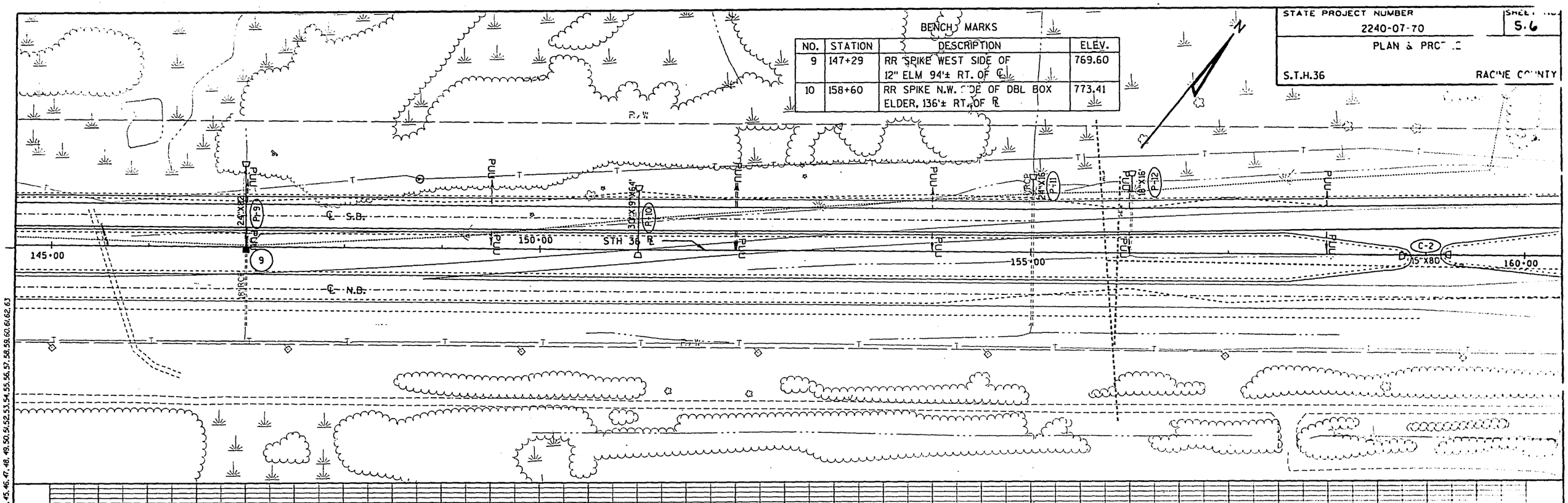
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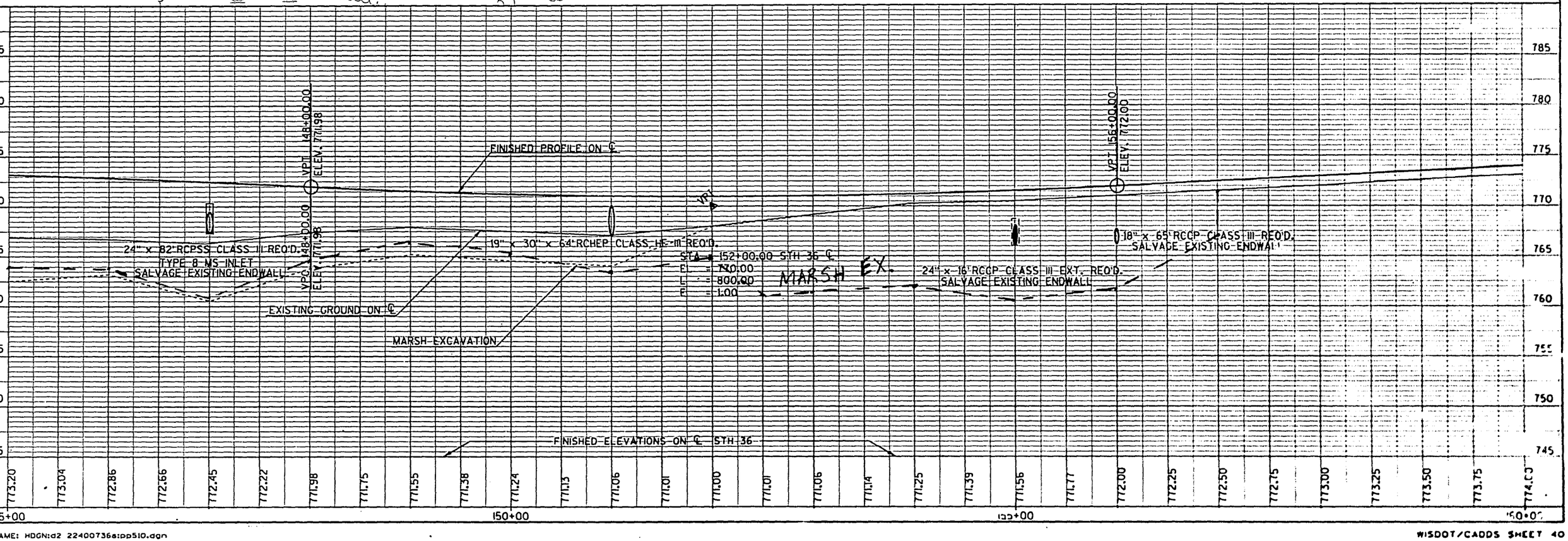
WISDOT/CADDS SHEET 45

STATE PROJECT NUMBER
2240-07-70
SHEET 5.6
PLAN & PROFILE
S.T.H.36
RACINE COUNTY

BENCH MARKS

NO.	STATION	DESCRIPTION	ELEV.
9	147+29	RR SPIKE WEST SIDE OF 12" ELM 94'± RT. OF ℄	769.60
10	158+60	RR SPIKE N.W. SIDE OF DBL BOX ELDER, 136'± RT. OF ℄	773.41

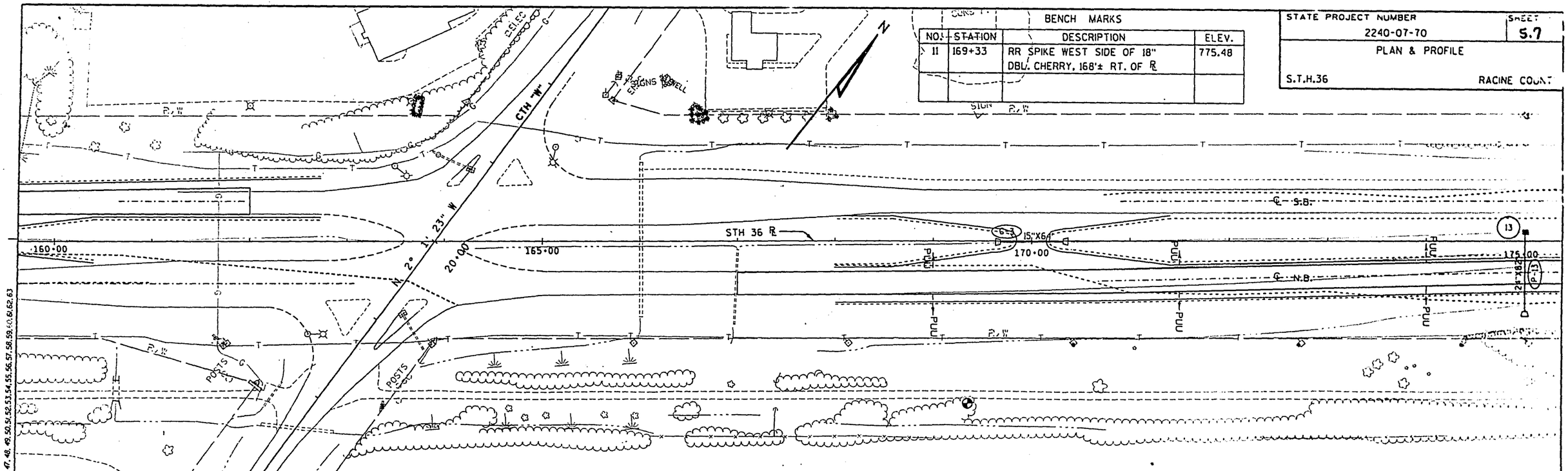




LEVELS ON • 1,2,3,4,5,6,7,8,9,10,11,12,13,14,15,16,17,18,19,20,21,22,23,24,25,26,27,28,29,30,31,32,33,34,35,36,37,38,39,40,41,42,43,44,45,46,47,48,49,50,51,52,53,54,55,56,57,58,59,60,61,62,63

BENCH MARKS			
NO.	STATION	DESCRIPTION	ELEV.
11	169+33	RR SPIKE WEST SIDE OF 18" DBL. CHERRY, 168'± RT. OF ℄	775.48

STATE PROJECT NUMBER	SHEET
2240-07-70	5.7
PLAN & PROFILE	
S.T.H.36	RACINE COUNTY



PLOT SCALE: 1" = 10'

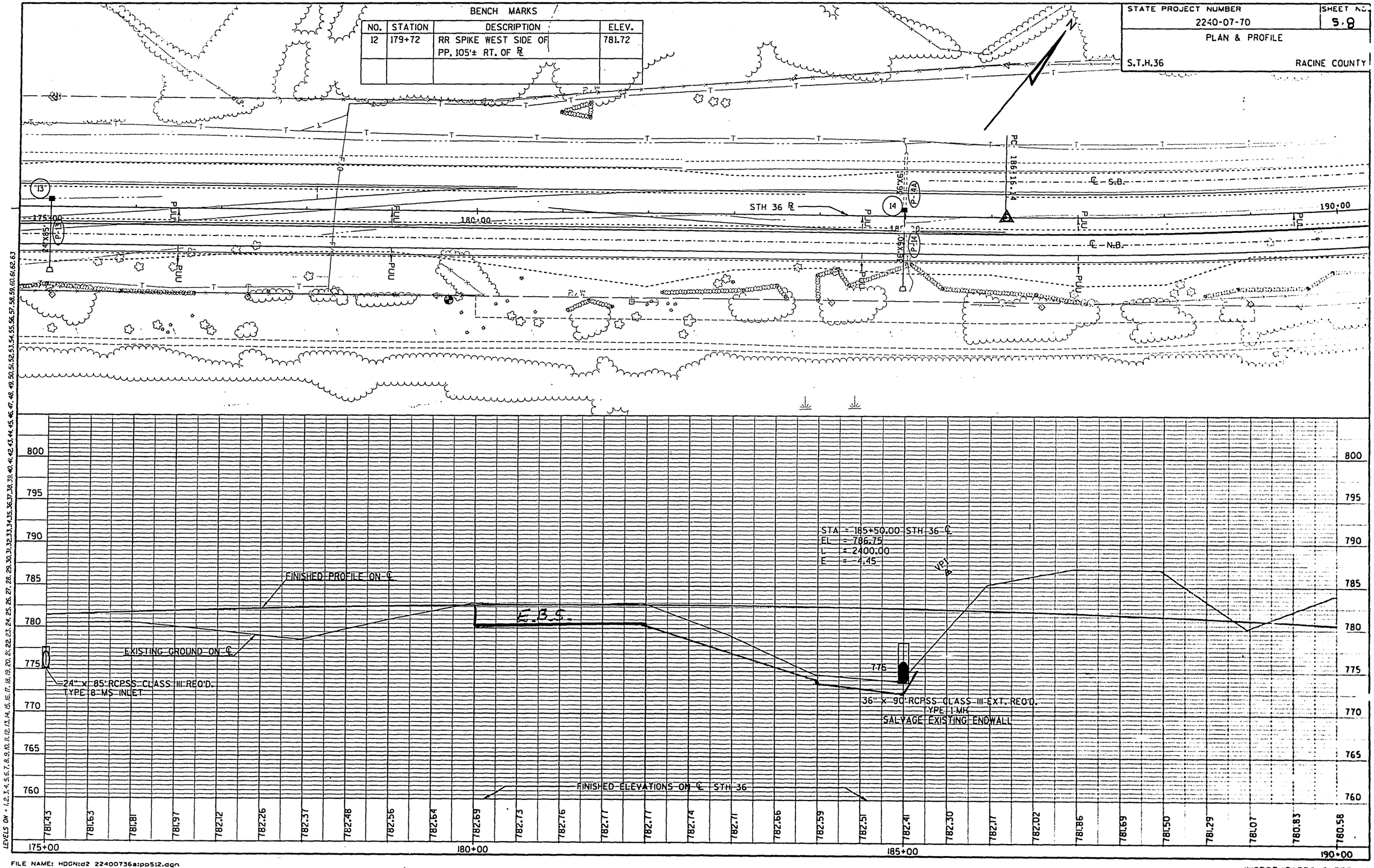
LEVELS ON • 1,2,3,4,5,6,7,8,9,10,11,12,13,14,15,16,17,18,19,20,21,22,23,24,25,26,27,28,29,30,31,32,33,34,35,36,37,38,39,40,41,42,43,44,45,46,47,48,49,50,51,52,53,54,55,56,57,58,59,60,61,62,63

FILE NAME: HDGN: d2.2240736stpp5ILdgn

STATE PROJECT NUMBER	SHEET NO.
2240-07-70	5.8
PLAN & PROFILE	
S.T.H.36	RACINE COUNTY

BENCH MARKS

NO.	STATION	DESCRIPTION	ELEV.
12	179+72	RR SPIKE WEST SIDE OF PP, 105'± RT. OF ℄	781.72



LEVELS ON • 1,2,3,4,5,6,7,8,9,10,11,12,13,14,15,16,17,18,19,20,21,22,23,24,25,26,27,28,29,30,31,32,33,34,35,36,37,38,39,40,41,42,43,44,45,46,47,48,49,50,51,52,53,54,55,56,57,58,59,60,61,62,63

FILE NAME: HDGN:d2 224007368:pp512.dgn

WISDOT/CADDS SHEET 40

STATE PROJECT NUMBER	SHEET
2240-07-70	5.9
PLAN & PROFILE	
S.T.H.36	RACINE COUNTY

BENCH MARKS

NO.	STATION	DESCRIPTION	ELEV.
13	191+83	RR SPIKE NW SIDE OF 34" OAK, 88'± RT. OF ℄	779.15
14	203+35	CHISEL X TOP SW COR. OF CULV. 130'± RT. OF ℄	768.02

PI STATION = 204+58.33 (STH 36)
DELTA = 35°38'51.16" LT
DEGREE OF CURVE = 1° 0' 0.00"
TANGENT = 1842.19
LENGTH = 3564.76
RADIUS = 5729.58
PC STATION = 186+16.14 (STH 36)
PT STATION = 221+80.90 (STH 36)
SE = .027%

℄ S.B.
℄ N.B.
STH 36 ℄
190+00
195+00
200+00
205+00
15
16
P.I.
P.C.
P.T.
P.I.
P.I.
P.I

STATE PROJECT NUMBER	SHEET NO.
2240-07-70	5. 10
PLAN & PRC	
S.T.H.36	ICOLE COUNTY

205+00 | 210+00 | 215+00 | 220+00

STH 36 ℄

℄ S.B.

℄ N.B.

F.&W.

TEL POST

F.O. POST

17 | 18 | 19

PUE

24"X94' CP-17

30"X91' CP-18

24"X98' CP-19

24"X70' CP-3A

PI STATION	=	204+58.33 (STH 36)
DELTA	=	35°38'51.16" LT
DEGREE OF CURVE	=	1° 0' 0.00"
TANGENT	=	1842.19
LENGTH	=	3564.76
RADIUS	=	5729.58
PC STATION	=	186+16.14 (STH 36)
PT STATION	=	221+80.90 (STH 36)

BENCH MARKS

NO.	STATION	DESCRIPTION	ELEV.
15	214+15	RR SPIKE NORTH SIDE OF PP, 120'± RT. OF ℄	767.46

STA = 205+00.00 STH 36 ℄
EL = 767.55
L = 1000.00
E = 1.64

FINISHED PROFILE ON ℄

VPI 210+00.00
ELEV. 769.20

VPC 212+00.00
ELEV. 769.85

0.3292 %

STA = 217+00.00 STH 36 ℄
EL = 771.50
L = 1000.00
E = -0.70

VPI

24"x 94' RCPSS CLASS III REQ'D.
TYPE 8 MS

MARSH EXCAVATION

30"x 91' RCPSS CLASS III EXT. REQ'D.
TYPE 9 MS
SALVAGE EXISTING ENDWALL

EXISTING GROUND ON ℄

24"x 98' RCPSS CLASS III REQ'D.
TYPE 8 MS

FINISHED ELEVATIONS ON ℄ STH 36

785 | 780 | 775 | 770 | 765 | 760 | 755 | 750 | 745

769.19 | 769.04 | 768.93 | 768.85 | 768.80 | 768.78 | 768.80 | 768.85 | 768.93 | 769.05 | 769.20 | 769.36 | 769.53 | 769.69 | 769.85 | 770.01 | 770.16 | 770.28 | 770.40 | 770.50 | 770.59 | 770.66 | 770.72 | 770.77 | 770.80 | 770.81 | 770.82 | 770.81 | 770.78 | 770.74 | 770.69

LEVELS ON - 1,2,3,4,5,6,7,8,9,10,11,12,13,14,15,16,17,18,19,20,21,22,23,24,25,26,27,28,29,30,31,32,33,34,35,36,37,38,39,40,41,42,43,44,45,46,47,48,49,50,51,52,53,54,55,56,57,58,59,60,61,62,63

FILE NAME: HDGN:D2 22400736s:pp514.dgn

WISDOT/CADDS SHEET 40

STATE PROJECT NUMBER	SHEET NO.
2240-07-70	6.11
PLAN & PROFILE	
S.T.H.36	RACINE COUNTY

EQUATION

PT 221+60.19 BK = 221+79.45 FWD

8-INCH CRUSHED AGGREGATE BASE COURSE PARKING LOT

TEL F/O SGN POST

C-5 24"X98'

C-4 15"X80'

C-20 24"X85'

C-21 24"X90'

20

21

℄ S.B.

℄ N.B.

℄ STH 36 R

220+00

225+00

230+00

235+00

B-51-56

B-51-78

RIVER

FOX

P.L.W.

REMOVE CONCRETE SURFACE DRAIN

INDEX

BENCH MARKS

NO.	STATION	DESCRIPTION	ELEV.
	221+80.9	P.T. MON. R	766.56
16	227+55	B51-56 BRASS CAP SE WINGWALL, 26' LT. OF R	769.72

785 780 775 770 765 760 755 750 745

VPI 222+00.00
ELEV. 770.33

FINISHED PROFILE ON ℄

-0.233 %

24" x 85' RCPSS CLASS III REQ'D. TYPE 8-MS

24" x 90' RCPSS CLASS III REQ'D. TYPE 8-MS

EXISTING GROUND ON ℄

EBS

FINISHED ELEVATIONS ON ℄ STH 36

770.69 770.62 770.54 770.44 770.33 770.21 770.10 769.98 769.86 769.75 769.63 769.52 769.40 769.28 769.17 769.05 768.93 768.83 768.75 768.70 768.67 768.67 768.69 768.74 768.82 768.92 769.04 769.19 769.37 769.57 769.80

VPC 228+00.00
ELEV. 768.93

STA. 228+78.58
STRUCTURE B-51-78 REQUIRED
3-SPAN 45" PRESTRESSED GIRDERS
40' CLEAR ROADWAY WIDTH
SKEW 35°

VPI

STA = 232+00.00 STH 36 ℄
EL = 768.00
L = 800.00
E = 0.82

LEVELS ON • 1,2,3,4,5,6,7,8,9,10,11,12,13,14,15,16,17,18,19,20,21,22,23,24,25,26,27,28,29,30,31,32,33,34,35,36,37,38,39,40,41,42,43,44,45,46,47,48,49,50,51,52,53,54,55,56,57,58,59,60,61,62,63

PLOT SCALE: 1

PLOT FRAMES:

FILE NAME: HDGN:D2 2240073651PP515.DGN

WISDOT/CADDS SHEET 40

STATE PROJECT NUMBER 2240-07-70 | SHEET NO. 5.12

PLAN & PROFILE

S.T.H.36 RACINE COUNTY

65.58

23+95.08

N 15° 57' 31" E

POST F/O

POST T.L.

P.I.W

PC 19+66.41

20+00

N 20° 1' 10" W

℄ S.B.

235+00

240+00

STH 36 ℄

245+00

250+00

℄ N.B.

22

FLUSH 24"x24" INLET

22-D

N. STA.

PT 18+08.41

N. RIVER RD.

POST

P.I.W

O.H.P.

BENCH MARKS

NO.	STATION	DESCRIPTION	ELEV.
17	240+50	RR SPIKE WEST SIDE OF PP, 112' RT. ℄	775.61

STA = 244+00.00 STH 36 ℄
EL = 775.00
L = 1000.00
E = 0.73

VPI 236+00.00
ELEV. 770.33

VPC 239+00.00
ELEV. 772.08

VPI 249+00.00
ELEV. 775.00

0.5833 %

FINISHED PROFILE ON ℄

EXISTING GROUND ON ℄

24" x 84" RCPSS CLASS III REQ'D. TYPE 8 MS

MARSH EX.

MARSH EXCAVATION

FINISHED ELEVATIONS ON ℄ STH 36

790 785 780 775 770 765 760 755 750

769.80 770.05 770.33 770.63 770.92 771.21 771.50 771.79 772.08 772.37 772.64 772.89 773.13 773.36 773.57 773.77 773.95 774.12 774.27 774.41 774.53 774.64 774.74 774.82 774.88 774.93 774.97 774.99 775.00 775.00 775.00

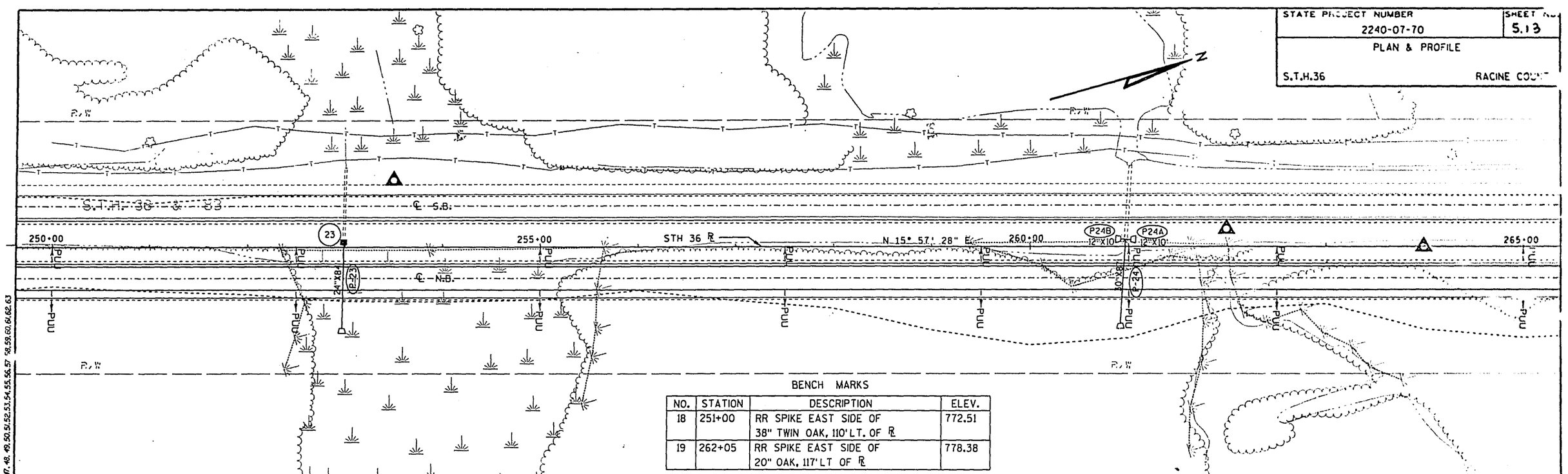
235+00 240+00 245+00 250+00

LEVELS ON • 1,2,3,4,5,6,7,8,9,10,11,12,13,14,15,16,17,18,19,20,21,22,23,24,25,26,27,28,29,30,31,32,33,34,35,36,37,38,39,40,41,42,43,44,45,46,47,48,49,50,51,52,53,54,55,56,57,58,59,60,61,62,63

FILE NAME: HDGN: d2.22400736s:pp516.dgn

WISDOT/CADDS SHEET 40

STATE PROJECT NUMBER	SHEET NO.
2240-07-70	5.13
PLAN & PROFILE	
S.T.H.36	RACINE COUNTY



PLOT SCALE:

PLOT NAME:

REV. DATE: 1-18-95

LEVELS ON - 1,2,3,4,5,6,7,8,9,10,11,12,13,14,15,16,17,18,19,20,21,22,23,24,25,26,27,28,29,30,31,32,33,34,35,36,37,38,39,40,41,42,43,44,45,46,47,48,49,50,51,52,53,54,55,56,57,58,59,60,61,62,63

FILE NAME: HDGN:D2 224007365:517.DGN

STATE PROJECT NUMBER	SHEET
2240-07-70	5.14
PLAN & PROFILE	
S.T.H.36	RACINE COUNTY

BENCH MARKS

NO.	STATION	DESCRIPTION	ELEV.
20	269+21	RR SPIKE NW SIDE OF TWIN	792.18
		HICKORY, 178'LT. OF ℄	
21	275+90	RR SPIKE WEST SIDE OF	806.50
		PP #66-7202, 200'RT. OF ℄	

STA = 266+00.00 STH 36 ℄
EL = 775.00
L = 1000.00
E = 3.27

EXISTING GROUND ON ℄

VPT 271+00.00
ELEV. 788.07

2.6148 %

FINISHED PROFILE ON ℄

VPC 279+75.00
ELEV. 80.95

30" x 80' RCPSS CLASS III EXT. REQ'D.
TYPE 9 MS INL.
SALVAGE EXISTING ENDWALL

TYPE 9 MS INL.
24" x 38" x 12' RCHESS CLASS HE-III EXT. REQ'D.
TYPE MH-J
24" x 38" x 76' RCHESS CLASS HE-III EXT. REQ'D.

FINISHED ELEVATIONS ON ℄ STH 36

265+00	270+00	275+00	280+00
777.09	785.59	797.23	808.39
777.65	785.80	798.53	810.30
778.27	788.07	799.84	810.60
778.95	789.38	801.15	
779.71	790.69	802.46	
780.52	792.00	803.76	
781.41	793.30	805.07	
782.35	794.61	806.38	
783.37	795.92	807.69	
784.45			

LEVELS ON • 1,2,3,4,5,6,7,8,9,10,11,12,13,14,15,16,17,18,19,20,21,22,23,24,25,26,27,28,29,30,31,32,33,34,35,36,37,38,39,40,41,42,43,44,45,46,47,48,49,50,51,52,53,54,55,56,57,58,59,60,61,62,63

FILE NAME: HDGN: d2.22400736sspp518.dgn

WISDOT/CADDS SHEET 40

STATE PROJECT NUMBER	SHEET NO.
2240-07-70	5.15
PLAN & PROFILE	
S.T.H.36	RACINE COUNTY

N

P.I. 27 — 24"x 77' RCPSS CLASS III EXT. REQ'D. TYPE B MS INL.

BENCH MARKS

NO.	STATION	DESCRIPTION	ELEV.
22	286+00	RR SPIKE EAST SIDE OF 26" OAK, 140' LT. OF ℄	817.08

STA = 288+25.00 STH 36 ℄
EL = 833.18
L = 1700.00
E = 10.11

EXISTING GROUND ON ℄
FINISHED PROFILE ON ℄
FINISHED ELEVATIONS ON ℄ STH 36

811.50 812.84 814.00 815.10 816.13 817.09 817.97 818.79 819.54 820.22 820.83 821.36 821.83 822.23 822.56 822.82 823.01 823.12 823.17 823.15 823.06 822.90 822.67 822.37 821.99 821.55 821.04 820.46 819.81 819.09 818.30

280+00 285+00 290+00 295+00

840 835 830 825 820 815 810 805 800

PLOT SCALE: • LEVELS ON • 1,2,3,4,5,6,7,8,9,10,11,12,13,14,15,16,17,18,19,20,21,22,23,24,25,26,27,28,29,30,31,32,33,34,35,36,37,38,39,40,41,42,43,44,45,46,47,48,49,50,51,52,53,54,55,56,57,58,59,60,61,62,63

STATE PROJECT NUMBER	SHEET NO.
2240-07-70	5.16
PLAN & PROFILE	
S.T.H.36	RACINE COUNTY

C.T.H. "D"

S 84° 11' 18" E 20.00

PT 19+41.82

SIGN

SIGN

N

P.I.

P.I.

P.I.

PLOT SCALE:

PLOT NAME:

LEVELS ON • 1,2,3,4,5,6,7,8,9,10,11,12,13,14,15,16,17,18,19,20,21,22,23,24,25,26,27,28,29,30,31,32,33,34,35,36,37,38,39,40,41,42,43,44,45,46,47,48,49,50,51,52,53,54,55,56,57,58,59,60,61,62,63

STATE PROJECT NUMBER	SHEET NO.
2240-07-70	5.17
PLAN & PROFILE	
S.T.H.36	RACINE COUNTY

WIND LAKE CANAL

ABANDONED RAILROAD R/W

℄ S.B.

℄ N.B.

B-51-57

B-51-79 REQ'D.

310+00

315+00

STH 36 ℄

320+00

325+00

24"X86' P-30

24"X140' 320+00 P-31

18"X55' P-502

PERMANENT DETENTION POND

RIP RAP SILT TRAP

BENCH MARKS

NO.	STATION	DESCRIPTION	ELEV.
25	313+88	RR SPIKE EAST OF 9" DBL.	774.00
		BOX ELDER, 173' LT. OF ℄	
26	319+80	BRASS CAP TOP OF SE CURB	778.74
		B51-57-67, 18' LT. OF ℄	

795 790 785 780 775 770 765 760 755

EBS

24" x 86' RCPSS CLASS III REQ'D. TYPE 8 MS INL.

FINISHED PROFILE ON ℄

EXISTING GROUND ON ℄

VPI

STA. = 315+00.00 STH 36 ℄
EL. = 775.90
L = 1200.00
F = 3.81

MARSH EXCAVATION

MARSH EX.

FINISHED ELEVATIONS ON ℄ STH 36

786.71 785.77 784.89 784.06 783.28 782.55 781.88 781.26 780.69 780.17 779.71 779.30 778.95 778.64 778.39 778.20 778.05 777.96 777.92 777.94 778.01 778.13 778.30 778.50 778.70 778.90 779.10 779.30 779.50 779.70 779.90

310+00 315+00 320+00 325+00

VPT 321+00.00
ELEV. 778.30

TYPE 8 MS INL.
24" x 140' RCPSS CLASS III REQ'D.

STA. 321+73.00
STRUCTURE B-57-79 REQUIRED
3 SPAN 36" PRESTRESSED GIRDERS
44' CLEAR ROADWAY WIDTH
SKEW 57° - 37'

MARSH EXCAVATION

FILE NAME: HDGN:d2 2240073&a:pp521.dgn

WISDOT/CADDS SHEET 40

STATE PROJECT NUMBER		SHEET NO.
2240-07-70		5.18
PLAN & PROFILE		
S.T.H.36		RACINE COUNTY

PI STATION	=	326+22.37 STH 36
DELTA	=	20° 0'14.29"RT
DEGREE OF CURVE	=	0°20' 0.00"
TANGENT	=	3031.45
LENGTH	=	6001.19
RADIUS	=	17188.73
PC STATION	=	295+90.92 STH 36
PT STATION	=	355+92.11 STH 36

ABANDONED RAILROAD BED

R/W

℄ S.B.

℄ N.B.

325+00 330+00 335+00 340+00

STH 36 ℄

32

24"X90°

P-32

PUD

6" TILE

BENCH MARKS

NO.	STATION	DESCRIPTION	ELEV.
27	330+35	RR SPIKE EAST SIDE OF DBL. 10" CHERRY, 164' LT. OF ℄	778.08

795 790 785 780 775 770 765 760 755

0.4000 %

VPC 329+50.00
ELEV. 781.70

FINISHED PROFILE ON ℄

STA = 333+50.00 STH 36 ℄
EL = 783.30
L = 800.00
E = -0.43

VPT 337+50.00
ELEV. 783.16

EXISTING GROUND ON ℄

24" x 90° RCPSS CLASS III REQ'D.
TYPE 8 MS ING.

MARSH EXCAVATION

MARSH EXCAVATION

FINISHED ELEVATIONS ON ℄ STH 36

779.90 780.10 780.30 780.50 780.70 780.90 781.10 781.30 781.50 781.70 781.89 782.07 782.24 782.39 782.53 782.66 782.77 782.87 782.95 783.02 783.08 783.12 783.15 783.17 783.17 783.16 783.15 783.13 783.11 783.09 783.08

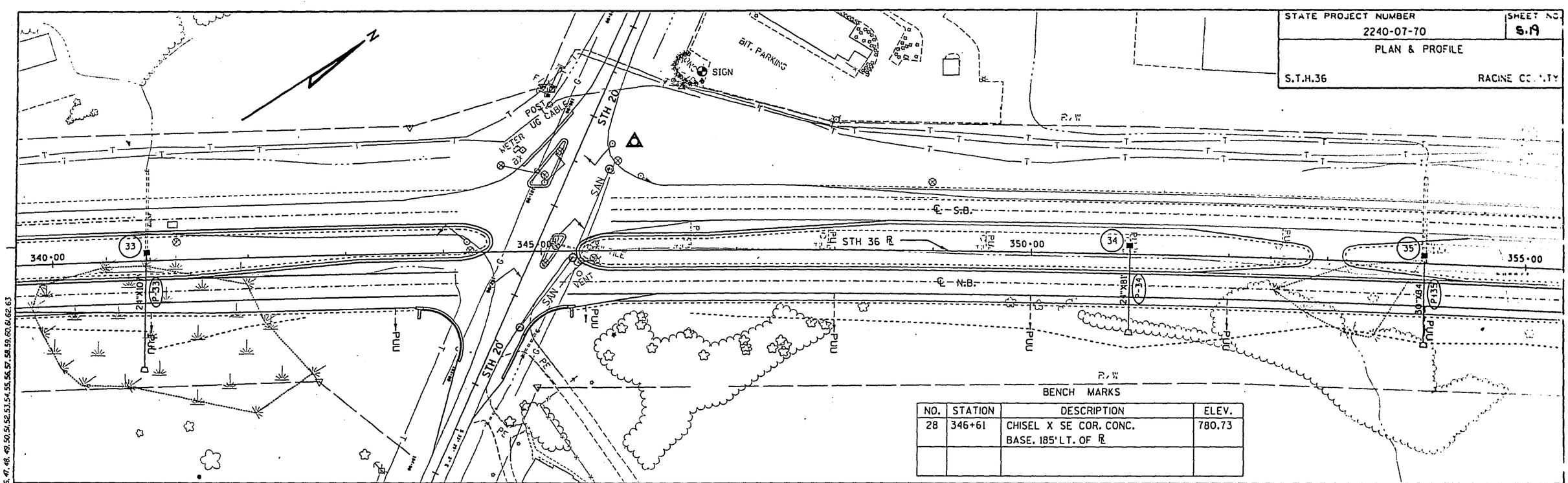
325+00 330+00 335+00 340+00

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FILE NAME: HDGN:D2 224007365:PP522.DGN

WISDOT/CADDS SHEET 40

STATE PROJECT NUMBER	SHEET NO.
2240-07-70	5.A
PLAN & PROFILE	
S.T.H.36	RACINE COUNTY



BENCH MARKS

NO.	STATION	DESCRIPTION	ELEV.
28	346+61	CHISEL X SE COR. CONC. BASE. 185'LT. OF R	780.73

PLOT SCALE:

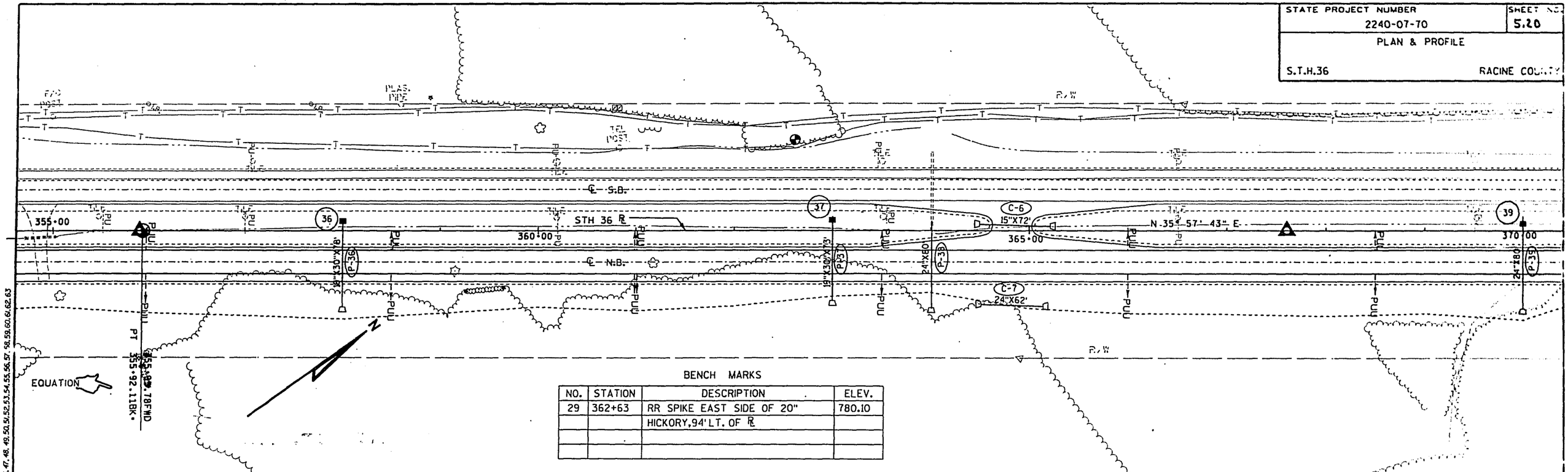
PLOT NAME:

REV. DATE:

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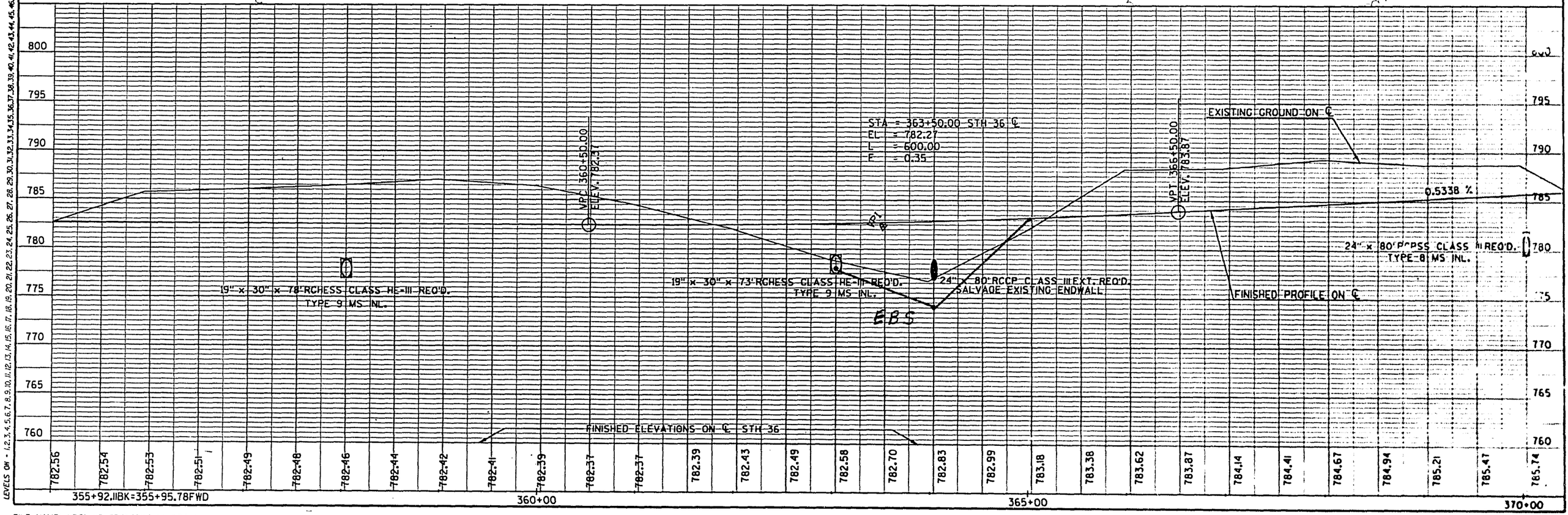
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STATE PROJECT NUMBER	SHEET NO.
2240-07-70	5.20
PLAN & PROFILE	
S.T.H.36	RACINE COUNTY



BENCH MARKS

NO.	STATION	DESCRIPTION	ELEV.
29	362+63	RR SPIKE EAST SIDE OF 20" HICKORY, 94' LT. OF ℞	780.10



LEVELS ON - 1,2,3,4,5,6,7,8,9,10,11,12,13,14,15,16,17,18,19,20,21,22,23,24,25,26,27,28,29,30,31,32,33,34,35,36,37,38,39,40,41,42,43,44,45,46,47,48,49,50,51,52,53,54,55,56,57,58,59,60,61,62,63

STATE PROJECT NUMBER	SHEET NO.
2240-07-70	5.21
PLAN & PROFILE	
S.T.H.36	RACINE COUNTY

BENCH MARKS

NO.	STATION	DESCRIPTION	ELEV.
30	370+75	RR SPIKE EAST SIDE OF 22" HICKORY, 147' LT. OF ℄	782.44
31	384+00	RR SPIKE EAST SIDE OF 6" OAK, 122" LT. OF ℄	789.76

SIGN

R/W

FO

TILE

PC 377+34.92

℄ S.B.

℄ N.B.

STH 36 ℄

375+00

380+00

385+00

39 370+00

40

41

P-39 24"x80'

P-40 24"x83'

P-41 19"x30"x79'

Pun

PI STATION = 383+14.76 (STH 36)
DELTA = 17°15'48.15"LT
DEGREE OF CURVE = 1°30' 0.00"
TANGENT = 579.84
LENGTH = 1150.89
RADIUS = 3819.72
PC STATION = 377+34.92 (STH 36)
PT STATION = 388+85.81 (STH 36)

STA = 378+00.00 STH 36 ℄
EL = 790.01
L = 1300.00
E = 1.39

VPC STA. 371+50.00 ELEV. 786.54

VPT STA. 384+50.00 ELEV. 787.93

FINISHED PROFILE ON ℄

EXISTING GROUND ON ℄

24" x 80' RCPSS CLASS III REQ'D. TYPE 8 MS INL.

24" x 83' RCPSS CLASS III EXT. REQ'D. TYPE 8 MS INL.

19" x 30" x 79' RCHESS CLASS HE III REQ'D. TYPE 9 MS INL.

EBS

MARSH EX.

FINISHED ELEVATIONS ON ℄ STH 36

805 800 795 790 785 780 775 770 765

785.74 786.01 786.27 786.54 786.80 787.04 787.27 787.48 787.67 787.85 788.01 788.15 788.28 788.39 788.48 788.56 788.62 788.67 788.70 788.71 788.71 788.69 788.65 788.60 788.53 788.44 788.34 788.22 788.08 787.93

370+00 375+00 380+00 385+00

PLOT NAME: PLOT SCALE:

LEVELS ON • 1,2,3,4,5,6,7,8,9,10,11,12,13,14,15,16,17,18,19,20,21,22,23,24,25,26,27,28,29,30,31,32,33,34,35,36,37,38,39,40,41,42,43,44,45,46,47,48,49,50,51,52,53,54,55,56,57,58,59,60,61,62,63

FILE NAME: MDGN:d2 22400736sipp525.dgn

WISDOT/CADDS SHEET 40

STATE PROJECT NUMBER	SHEET NO.
2240-07-70	S.22
PLAN & PROFILE	
S.T.H.36	RACINE COUNTY

N

SGN

GRG

HSE

P.U.E.

F.O.

EQUATION

PT 388+85.81BK=
PT 388+87.33FWD

20.00

PT 20.15 L

C-S.B.

STH 36

C-N.B.

42

43

44

385+00

390+00

400+00

24"X87" RCP C-42

24"X83" RCP C-43

15"X64" RCP C-8

30"X31" RCP P-44

30"X76" RCP P-44

6" TILE

P.U.E.

P.U.U.

P.A.E.

SIGN

MAIN ST.

G.P.

G.P.

G.P.

PI STATION	=	383+14.76 (STH 36)
DELTA	=	17°15'48.15"Lt.
DEGREE OF CURVE	=	1°30' 0.00"
TANGENT	=	579.84
LENGTH	=	1150.89
RADIUS	=	3819.72
PC STATION	=	377+34.92 (STH 36)
PT STATION	=	388+85.81 (STH 36)

BENCH MARKS

NO.	STATION	DESCRIPTION	ELEV.
32	389+25	RR SPIKE EAST SIDE OF PP, 116' LT. OF ℄ NW COR.	781.93
33	398+85	STH 36 & MAIN RR SPIKE NORTH SIDE OF 12" BOX ELDER CLUMP, 113' RT. ℄	786.29

FINISHED PROFILE ON ℄

-0.3197 %

VPC 390+00.00
ELEV 786.18

STA = 393+00.00 STH 36
EL = 785.22
L = 600.00
E = -0.17

VPCC 396+00.00
ELEV 783.57

STA = 399+00.00 STH 36
EL = 781.91
L = 600.00
E = 0.17

24" x 97' RCPSS CLASS III REQ'D.
TYPE 8 MS INL.

24" x 83' RCPSS CLASS III EXT. REQ'D.
TYPE 8 MS INL.
SALVAGE EXISTING ENDWALL

30" x 76' RCPSS CLASS II EXT. REQ'D.
TYPE 9 MS INL.
SALVAGE EXISTING ENDWA...

EXISTING GROUND ON ℄

MARSH EXCAVATION

FINISHED ELEVATIONS ON ℄ STH 36

800 795 790 785 780 775 770 765 760

787.77 787.61 787.45 787.29 787.13 786.97 786.81 786.65 786.50 786.34 786.18 786.01 785.84 785.66 785.46 785.26 785.05 784.82 784.59 784.35 784.10 783.84 783.57 783.29 783.03 782.78 782.54 782.31 782.08 781.87 781.67

385+00 388+85.81BK=388+87.33FWD 390+00 395+00 400+00

LEVELS ON - 1,2,3,4,5,6,7,8,9,10,11,12,13,14,15,16,17,18,19,20,21,22,23,24,25,26,27,28,29,30,31,32,33,34,35,36,37,38,39,40,41,42,43,44,45,46,47,48,49,50,51,52,53,54,55,56,57,58,59,60,61,62,63

FILE NAME: HDGN: d2.2240073&sspp526.dgn

WISDOT/CADDS SHEET 40

STATE PROJECT NUMBER	SHEET NO.
2240-07-70	5.23

PLAN & PROFILE

S.T.H.36 RACINE COUNTY

BENCH MARKS

NO.	STATION	DESCRIPTION	ELEV.
34	408+78	RR SPIKE NORTH SIDE OF 12" BOX ELDER, 165' LT. OF ℄	777.68

N

400+00 405+00 410+00 415+00

STH 36 ℄

℄ S.B.

℄ N.B.

C-9 5°X80' D

45 46

P-14B

P.I. VPC 403+50.00 ELEV. 777.28

VPT 402+00.00 ELEV. 780.95

FINISHED PROFILE ON ℄

EXISTING GROUND ON ℄

MARSH EX.

0.3.95

19" x 30" x 78" RCHESS CLASS HE III REQ'D. TYPE 9 MS INL.

MARSH EXCAVATION

30" x 81" RCPSS CLASS III EXT. REQ'D. TYPE 9 MS INL. SALVAGE EXISTING ENDWALL

FINISHED ELEVATIONS ON ℄ STH 36

400+00	405+00	410+00	415+00
781.67	779.99	778.72	777.44
781.47	779.83	778.56	777.28
781.29	779.67	778.40	777.13
781.12	779.51	778.24	776.99
780.95	779.35	778.08	776.88
780.79	779.19	777.92	
780.63	779.03	777.76	
780.47	778.88	777.60	
780.31			
780.15			

795 790 785 780 775 770 765 760 755

PLOT SCALE:

PLOT NAME:

REV. DATE: 1-18-95

LEVELS ON - 1,2,3,4,5,6,7,8,9,10,11,12,13,14,15,16,17,18,19,20,21,22,23,24,25,26,27,28,29,30,31,32,33,34,35,36,37,38,39,40,41,42,43,44,45,46,47,48,49,50,51,52,53,54,55,56,57,58,59,60,61,62,63

FILE NAME: HDGN:D2 2240073655:PP527.DGN

WISDOT/CADDS SHEET 40

STATE PROJECT NUMBER	SHEET NO.
2240-07-70	5.24

PLAN & PROFILE

S.T.H.36 RACINE COUNTY

BENCH MARKS

NO.	STATION	DESCRIPTION	ELEV.
35	419+35	RR SPIKE SOUTH SIDE OF DBL. 16" OAK, 125'LT. OF ℄	770.25
36	429+25	RR SPIKE PP *78-13289 NW COR., 116'LT. OF ℄	772.58

STA = 417+50.00 STH 36 ℄
EL = 776.00
L = 800.00
E = 0.58

EXISTING GROUND ON ℄

VPI STA 421+50.00
ELEV. 777.03

19" x 30" x 82'-RCHESS CLASS HE-III REQ'D. TYPE 9 MS INL.

19" x 30" x 75'-RCHESS CLASS HE-III REQ'D. TYPE 9 MS INL.

24" x 80' RCCP CLASS III EXT. REQ'D. SALVAGE EXISTING ENDWALL

FINISHED PROFILE ON ℄

FINISHED ELEVATIONS ON ℄ STH 36

0.25%

776.88 776.78 776.70 776.64 776.60 776.58 776.57 776.58 776.61 776.66 776.73 776.81 776.91 777.03 777.16 777.29 777.42 777.55 777.68 777.80 777.93 778.06 778.19 778.32 778.45 778.58 778.71 778.84 778.96 779.09 779.22

415+00 420+00 425+00 430+00

795 790 785 780 775 770 765 760 755

LEVELS ON • 1,2,3,4,5,6,7,8,9,10,11,12,13,14,15,16,17,18,19,20,21,22,23,24,25,26,27,28,29,30,31,32,33,34,35,36,37,38,39,40,41,42,43,44,45,46,47,48,49,50,51,52,53,54,55,56,57,58,59,60,61,62,63

FILE NAME: HDGN:D2 2240O736S:PP528.DGN

WISDOT/CADDS SHEET 40

STATE PROJECT NUMBER 2240-07-70 | SHEET NO. 5.25

PLAN & PROFILE

S.T.H.36 RACINE CO.

PLOT SCALE:

PLOT NAME:

LEVELS ON • 1,2,3,4,5,6,7,8,9,10,11,12,13,14,15,16,17,18,19,20,21,22,23,24,25,26,27,28,29,30,31,32,33,34,35,36,37,38,39,40,41,42,43,44,45,46,47,48,49,50,51,52,53,54,55,56,57,58,59,60,61,62,63

N

P.I.W.

POST

F.O.

P.U.

TILE

℄ S.B.

℄ N.B.

STH 36 ℄

50

51

430+00

435+00

440+00

445+00

24"x85' RCPSS CLASS III EXT. REQ'D. TYPE 8 MS INL. SALVAGE EXISTING ENDWALL

36"x78' RCPSS CLASS III EXT. REQ'D. TYPE 1 MH SALVAGE EXISTING ENDWALL

REPLACED 6" TILE

BENCH MARKS

NO.	STATION	DESCRIPTION	ELEV.
37	438+31	RR SPIKE SOUTH SIDE OF 8" BOX ELDER, 116' LT. OF ℄	784.26

800 795 790 785 780 775 770 765 760

FINISHED PROFILE ON ℄

VPC 436+14.69 ELEV. 780.81

STA = 439+14.69 STH 36 ℄
EL = 781.58
L = 600.00
E = 1.24

VPT 442+14.69 ELEV. 787.30

VPC 442+5.00 ELEV. 787.97

-1.90531

VPI A

EBS

EXISTING GROUND ON ℄

MARSH EX.

FINISHED ELEVATIONS ON ℄ STH 36

779.22 779.35 779.48 779.61 779.74 779.87 780.00 780.12 780.25 780.38 780.51 780.64 780.77 780.91 781.13 781.41 781.76 782.17 782.66 783.21 783.84 784.53 785.29 786.12 787.02 787.97 788.91 789.84 790.76 791.65 792.53

430+00 435+00 440+00 445+00

FILE NAME: HDGN:d2 2240073bsipp529.dgn

WISDOT/CADDS SHEET 40

STATE PROJECT NUMBER	SHEET NO.
2240-07-70	5.26
PLAN & PROFILE	
S.T.H. 36	RACINE COUNTY

LEVELS ON : 1,2,3,4,5,6,7,8,9,10,11,12,13,14,15,16,17,18,19,20,21,22,23,24,25,26,27,28,29,30,31,32,33,34,35,36,37,38,39,40,41,42,43,44,45,46,47,48,49,50,51,52,53,54,55,56,57,58,59,60,61,62,63

FILE NAME: HDGN: D2.2240073SSPP530.DGN

WISDOT/CADDS SHEET 40

BENCH MARKS

NO.	STATION	DESCRIPTION	ELEV.
38	447+02	RR SPIKE EAST SIDE OF PP SW COR. 153'LT. OF ℄	796.59
39	458+45	RR SPIKE EAST SIDE OF 19" OAK, 110'LT. OF ℄	818.66

445+00 450+00 455+00 460+00

820 815 810 805 800 795 790 785 780

℄ S.B.

℄ N.B.

STH 36 ℄

℄ HAMER RD.

℄ STH 36

℄ S.

℄ E.

℄ W.

℄ N.

P.I.

P.C. 446+69.50

P.T.

P.I.W.

P.U.W.

SIGN POSTS

SIGN

52

53

R-52

R-53

24"x110'

48"x80'

96'

38°, 24'

FINISHED PROFILE ON ℄

EXISTING GROUND ON ℄

MARSH EX.

24" x 110' RCPSS CLASS III REQ'D. TYPE 8 MS INL.

30" x 94' RCPSS CLASS III REQ'D. TYPE 9 MS INL. SALVAGE EXISTING ENDWALL

STA. = 458+00.00 STH 36 ℄
EL. = 817.50
L. = 3100.00
E = -7.59

FINISHED ELEVATIONS ON ℄ STH 36

792.53 793.40 794.25 795.08 795.90 796.71 797.49 798.26 799.02 799.76 800.48 801.19 801.88 802.56 803.22 803.86 804.49 805.11 805.70 806.29 806.85 807.40 807.94 808.45 808.96 809.44 809.91 810.37 810.81 811.23 811.64

STATE PROJECT NUMBER	SHEET NO.
2210-07-70	5.27
PLAN & PROFILE	
S.T.H.36	RACINE CO.

PI STATION = 462+92.33 (STH 36)
DELTA = 16° 7' 12.37" RT
DEGREE OF CURVE = 0°30' 0.00"
TANGENT = 1622.73
LENGTH = 3224.02
RADIUS = 11459.16
PC STATION = 446+69.60 (STH 36)
PT STATION = 478+93.62 (STH 36)
SE = .02%

ABANDONED RAILROAD BED

460+00 465+00 470+00

STH 36 R

℄ S.B.

℄ N.B.

CAUTION

GAS VENTS

BENCH MARKS

NO.	STATION	DESCRIPTION	ELEV.
40	467+85	RR SPIKE EAST SIDE OF 10" CHERRY, 190' LT. OF ℞	809.30

835 830 825 820 815 810 805 800 795

811.64 812.03 812.41 812.77 813.11 813.44 813.76 814.06 814.34 814.60 814.86 815.09 815.30 815.51 815.70 815.87 816.02 816.16 816.29 816.39 816.48 816.56 816.62 816.67 816.70 816.71 816.71 816.69 816.66 816.62 816.56

460+00 465+00 470+00 475+00

FINISHED PROFILE ON ℄

EXISTING GROUND ON ℄

MARSH EX.

30" x 83' RCPSS CLASS III EXT. REQ'D. TYPE FMH SALVAGE EXISTING ENDWALL

FINISHED ELEVATIONS ON ℄ STH 36

MARSH EXCAVATION

24" x 78' RCPSS CLASS III REQ'D. TYPE 8-MS

EBS

VPI 473+50.00 ELEV. 816.69
-0.0523 %
VPC 471+64.20 ELEV. 816.68

LEVELS ON - 1, 2, 3, 4, 5, 6, 7, 8, 9, 10, 11, 12, 13, 14, 15, 16, 17, 18, 19, 20, 21, 22, 23, 24, 25, 26, 27, 28, 29, 30, 31, 32, 33, 34, 35, 36, 37, 38, 39, 40, 41, 42, 43, 44, 45, 46, 47, 48, 49, 50, 51, 52, 53, 54, 55, 56, 57, 58, 59, 60, 61, 62, 63

PLOT SCALE:

PLOT NAME:

FILE NAME: HDGN: D2.22400736SPPS3LDGN

WISDOT/CADDS SHEET

STATE PROJECT NUMBER	SHEET NO.
2240-07-70	5.2B
PLAN & PROFILE	
S.T.H.36	RACINE COUNT

BENCH MARKS

NO.	STATION	DESCRIPTION	ELEV.
41	477+80	BLUE KEEL MARK TP NE COR. CONC. BOX CULV. 140' LT. OF ℄	811.42
42	487+85	RR SPIKE E. SIDE PP #78-14836, 198' LT OF ℄	806.43

BM #42
BM #41
ABANDONED RAILROAD R/W
℄ S.B.
℄ N.B.
475+00
480+00
485+00
490+00
STH 36 ℄
N 34°49'07" E
56
58
24"x77' RCPSS CLASS III REQ'D. TYPE 8 MS
24"x118' RCPSS CLASS III REQ'D. TYPE 8 MS
478+95.82FWD
478+93.62BK
EQUATION
END PROJECT 2240-07-70
BEGIN PROJECT 2240-07-76
INSET
R/W
N
VPI 480+64.40 ELEV. 815.05
FINISHED PROFILE ON ℄
-0.4144 %
STA = 477+12.20 STH 36 ℄
EL = 816.50
L = 700.00
E = -0.32
24" x 77' RCPSS CLASS III REQ'D. TYPE 8 MS
24" x 80' RCCP CLASS IV EXT. REQ'D.
SALVAGE EXISTING ENDWALL
MARSH EXCAVATION
EXISTING GROUND ON ℄
24" x 81' RCPSS CLASS III REQ'D. TYPE 8 MS
FINISHED ELEVATIONS ON ℄ STH 36
EBS

830 825 820 815 810 805 800 795 790

816.56 816.49 816.41 816.32 816.23 816.09 815.99 815.81 815.66 815.37 814.99 814.60 814.20 813.81 813.42 813.03 812.64 812.25 811.85 811.46

475+00 478+93.62BK=478+95.82FWD 480+00 485+00 490+00

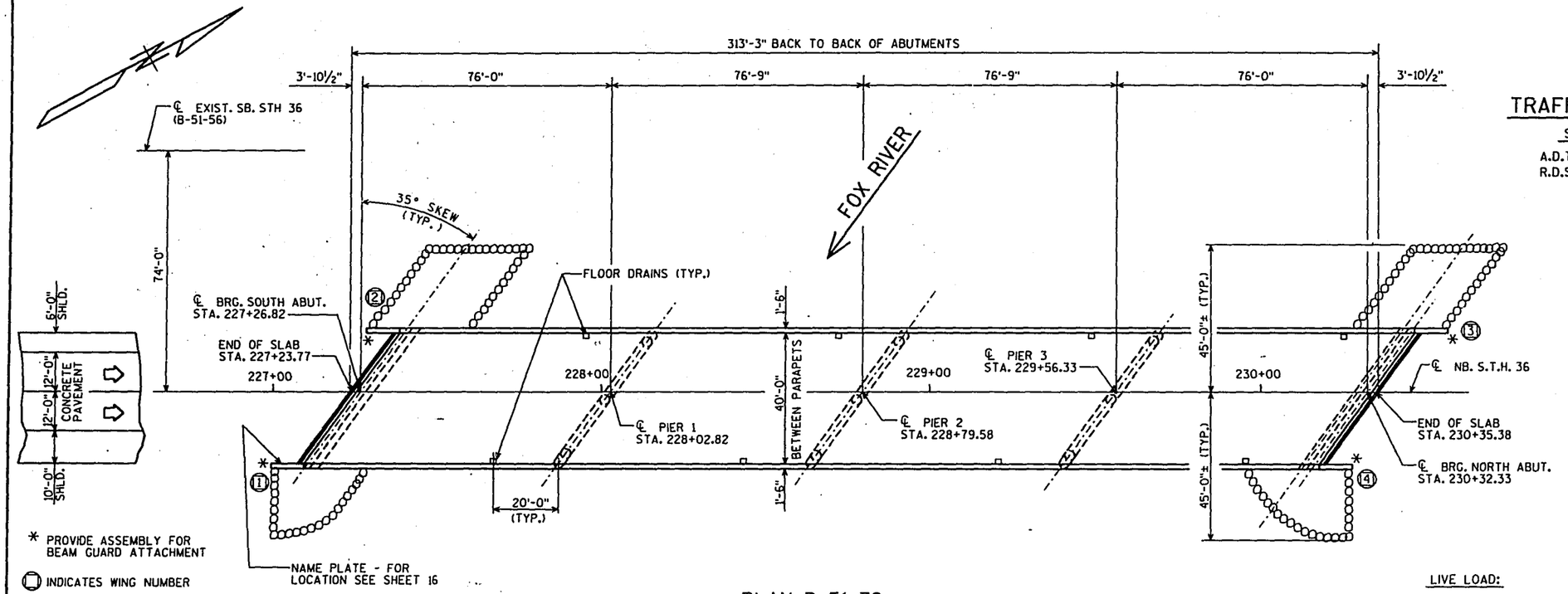
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FILE NAME: HDGN: D2.2240073655PP532.DGN

WISDOT/CADDS SHEET 40

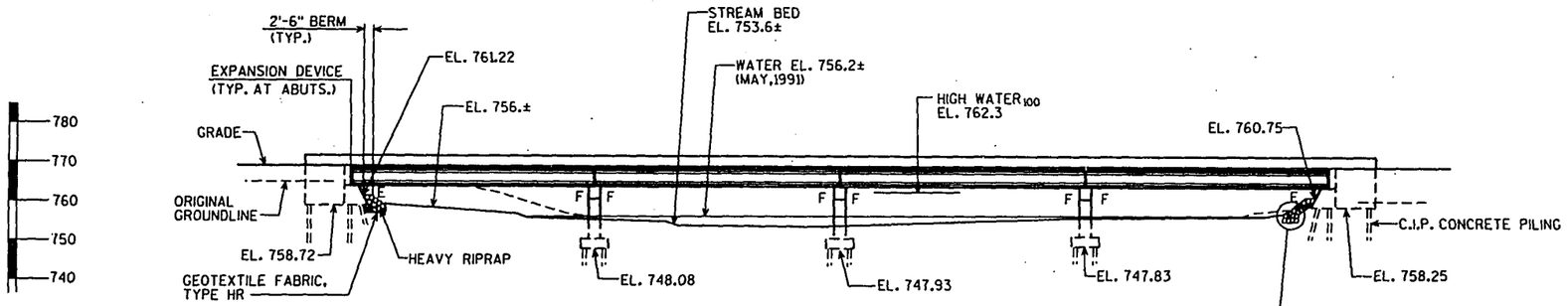
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STATE PROJECT NUMBER	SHEET NO.
	8.0



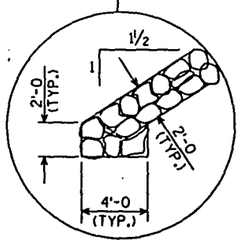
PLAN-B-51-78

4-SPAN 45" PRESTRESSED GIRDERS



ELEVATION

NORMAL TO FOX RIVER



TRAFFIC VOLUME

S.T.H. 36

A.D.T.=12,475 (2015)
R.D.S.=60 M.P.H.

HYDRAULIC DATA

100 YEAR FREQUENCY

Q_{100} =4,130 C.F.S.
VEL. =1.4 F.P.S.
HW.= EL. 762.3
WATERWAY AREA= 2,915 SQ. FT.
DRAINAGE AREA= 460 SQ. MI.
ROAD OVERTOPPING = NA
SCOUR CRITICAL CODE=5

FOUNDATION DATA

ABUTMENTS AND PIERS TO BE SUPPORTED ON 10¾" DIA. C.I.P. CONCRETE PILING.

DESIGN DATA

LIVE LOAD:

DESIGN RATING; HS-20
INVENTORY RATING; HS-22
OPERATIONAL RATING; HS-41
MAXIMUM STANDARD PERMIT VEHICLE LOAD = 250 KIPS.

STRUCTURE IS DESIGNED FOR A FUTURE WEARING SURFACE OF 20 POUNDS PER SQUARE FOOT.

ULTIMATE DESIGN STRESSES:

CONCRETE MASONRY SLAB — f'c = 4,000 P.S.I. ALL OTHER — f'c = 3,500 P.S.I.

BAR STEEL REINFORCEMENT, GRADE 60 — fy = 60,000 P.S.I.

PARAPET AND ALL SLAB STEEL SHALL BE EPOXY COATED.

45" PRESTRESSED GIRDERS, CONCRETE MASONRY — f'c = 6,000 P.S.I.
STRANDS-½" ϕ WITH ULTIMATE TENSILE STRENGTH OF 270,000 P.S.I.

LIST OF DRAWINGS

1. GENERAL PLAN
2. GENERAL PLAN
3. SUBSURFACE EXPLORATION
4. SOUTH ABUTMENT
5. SOUTH ABUTMENT
6. SOUTH ABUTMENT
7. NORTH ABUTMENT
8. NORTH ABUTMENT
9. NORTH ABUTMENT
10. PIERS
11. PRESTRESSED GIRDER BEARINGS AT ABUTS.
12. 45" PRESTRESSED GIRDER DETAILS
13. SUPERSTRUCTURE
14. SUPERSTRUCTURE
15. SUPERSTRUCTURE DETAILS
16. SLOPED FACE PARAPET 'B'
17. EXPANSION DEVICE
18. STEEL DIAPHRAGM
19. FLOOR DRAIN TYPE 'GC'

BRIDGE OFFICE CONTACT - R.L. REESE (608)266-8488
.DAVE GENSON (608)266-8491

NO.	DATE	REVISION	BY

STATE OF WISCONSIN
DEPARTMENT OF TRANSPORTATION
DIVISION OF HIGHWAYS

STRUCTURE B-51-78

S.T.H. 36 OVER FOX RIVER

COUNTY RACINE		TOWN ~~ASHT / VILLAGE~~ ROCHESTER	
DESIGN SPEC. AASHTO 1992		LOAD HS-20	CONST. SPEC. 1989
DESIGNED BY S.D.R.	DESIGN CK'D. OLA	DRAWN BY RIES	PLANS CK'D. J.C.K.

APPROVED Arnold M. Bodenstein STATE BRIDGE ENGINEER 12-08-92 DATE

GENERAL PLAN

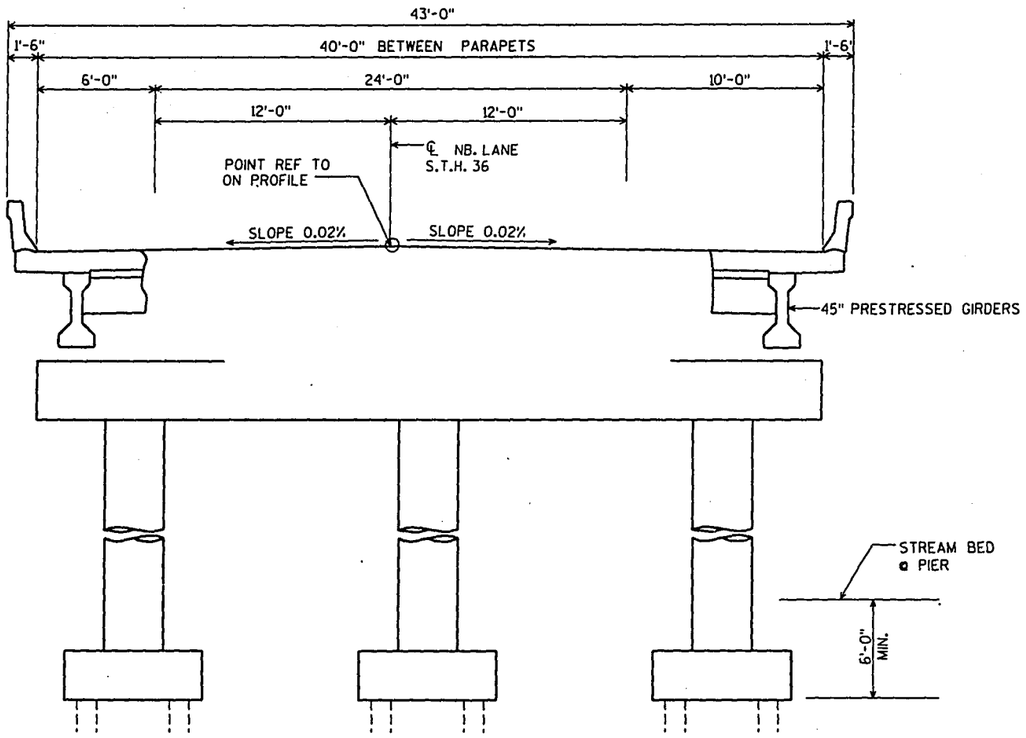
SHEET 1 OF 19

DATE: MAY, '93

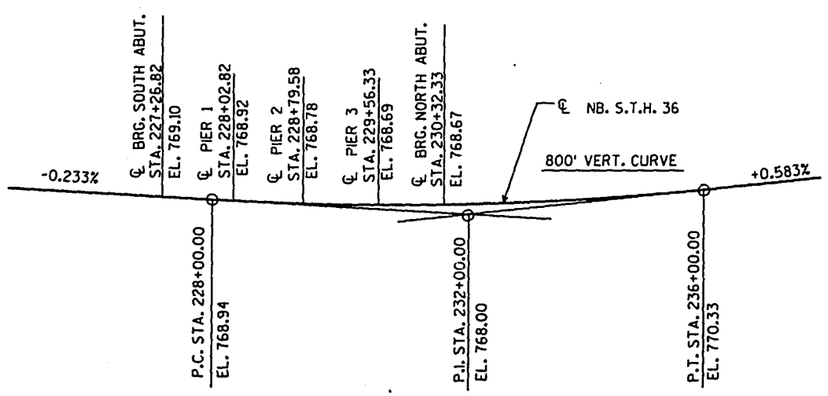
FILE=BRB5178:78GP.DGN

I.D. 2240-07-00A

STATE PROJECT NUMBER	SHEET NO.
	5.1



CROSS SECTION THRU ROADWAY LOOKING NORTH



PROFILE GRADE LINE S.T.H. 36

TOTAL ESTIMATED QUANTITIES

BID ITEMS	UNIT	SUPER.	SOUTH ABUT.	NORTH ABUT.	PIER 1	PIER 2	PIER 3	TOTALS
EXCAVATION FOR STRUCTURES, BRIDGES, B-51-78	L.S.	—	—	—	—	—	—	1
CONCRETE MASONRY, BRIDGES	C.Y.	427	81	81	52	52	52	745
PROTECTIVE SURFACE TREATMENT	GAL.	93	—	—	—	—	—	93
HIGH-STRENGTH BAR STEEL REINFORCEMENT, BRIDGES	LB.	—	2,020	2,020	1,330	1,330	1,330	8,030
COATED HIGH-STRENGTH BAR STEEL REINFORCEMENT, BRIDGES	LB.	97,660	1,860	1,860	7,360	7,360	7,360	123,460
EXPANSION DEVICE, STRUCTURE B-51-78	L.S.	—	—	—	—	—	—	1
PRESTRESSED GIRDER, ITYPE, 45-INCH	L.F.	1,530	—	—	—	—	—	1,530
LAMINATED ELASTOMERIC BEARING PADS	EACH	10	—	—	—	—	—	10
⚠ CAST-IN-PLACE CONCRETE PILING, DELIVERED AND DRIVEN, 10¾-INCH	L.F.	—	1,120	1,120	1,080	1,080	1,080	5,480
FLOOR DRAINS, TYPE GC	EACH	8	—	—	—	—	—	8
HEAVY RIPRAP	C.Y.	—	115	140	—	—	—	255
GEOTEXTILE FABRIC, TYPE HR	S.Y.	—	180	240	—	—	—	420
STEEL DIAPHRAGM	EACH	16	—	—	—	—	—	16
NON-LAMINATED ELASTOMERIC BEARING PADS	EACH	15	—	—	—	—	—	15
ANCHOR ASSEMBLIES FOR STEEL PLATE BEAM GUARD	EACH	—	—	—	—	—	—	4
		—	—	—	—	—	—	
		—	—	—	—	—	—	
		—	—	—	—	—	—	
		—	—	—	—	—	—	
NON-BID ITEMS								
POLYVINYL CHLORIDE WATERSTOP	L.F.	—	51	51	—	—	—	102
FILLER	SIZE	—	—	—	—	—	—	½" & ¾"

⚠ MINIMUM SHELL THICKNESS SHALL BE ¼"

GENERAL NOTES

DRAWINGS SHALL NOT BE SCALED.

BAR STEEL REINFORCEMENT SHALL BE EMBEDDED 2" CLEAR UNLESS OTHERWISE SHOWN OR NOTED.

ELASTOMERIC BEARING PADS NEED NOT BE INDIVIDUALLY MOLDED PROVIDED THE CUT EDGES ARE SMOOTH & TRUE.

THE SLOPE OF FILL IN FRONT OF THE ABUTMENTS SHALL BE COVERED WITH HEAVY RIPRAP TO THE EXTENT SHOWN ON SHT. 1 & IN THE ABUTMENT DETAILS.

SPECIAL GRANULAR BACKFILL REQUIRED AT ABUTMENTS. SEE SHEET 6 AND 9.

NO.	DATE	REVISION	BY

STATE OF WISCONSIN
DEPARTMENT OF TRANSPORTATION
DIVISION OF HIGHWAYS

STRUCTURE B-51-78

CONST. SPEC.	DRAWN BY	PLANS C&D
1989	RIES	J.E.K.

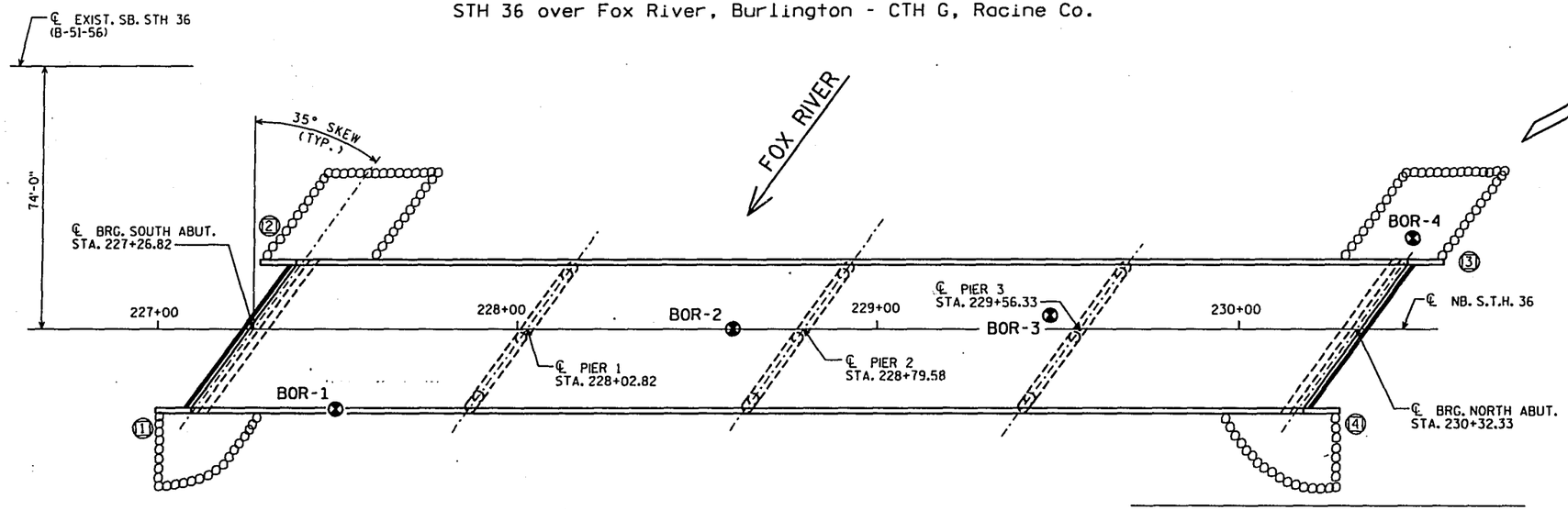
GENERAL PLAN

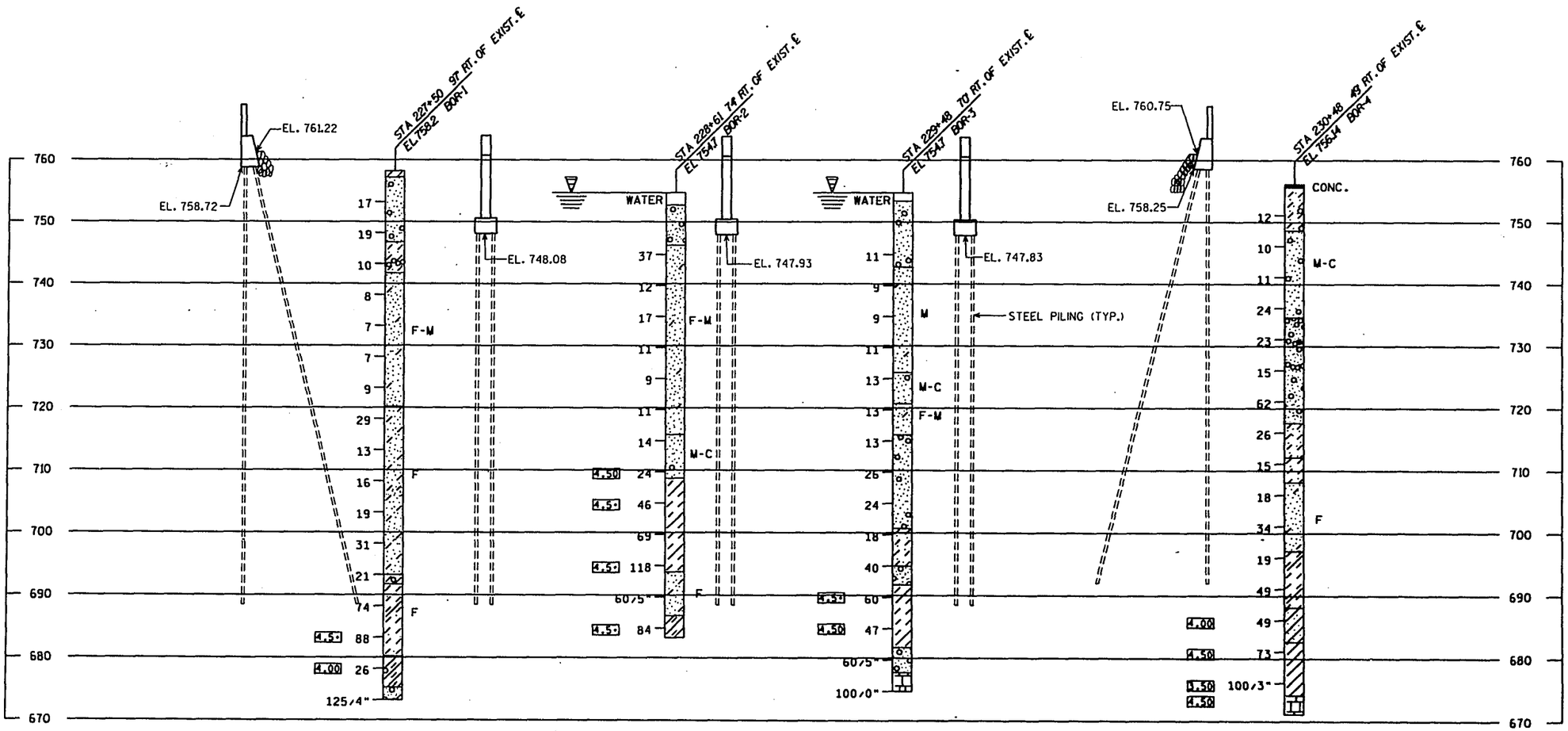
SHEET 2

FILE: BR_B5178-78GP.DGN

STH 36 over Fox River, Burlington - CTH G, Racine Co.

STATE PROJECT NUMBER	SHEET NO.
	3.2





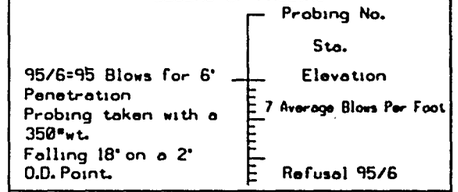
ABBREVIATIONS

F—Fine M—Medium C—Coarse
Ws—Weathered So—Sound

MATERIAL SYMBOLS

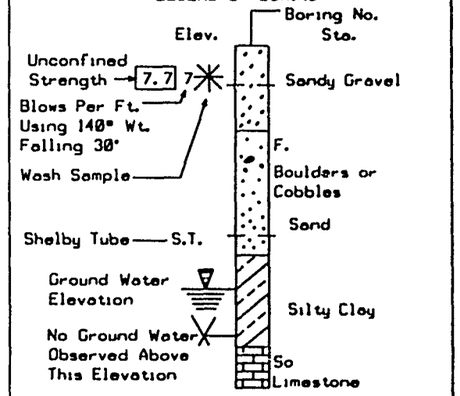
Topsoil, Silt, Sandstone, Sand, Peat, Limestone, Gravel, Clay, Igneous Rock

LEGEND OF PROBING



95/6=95 Blows for 6" Penetration
Probing taken with a 350#wt.
Falling 18" on a 2" O.D. Point.

LEGEND OF BORING



Unless otherwise specified, the blows per foot at the locations indicated are based on driving a O.D. x I. 4" I.D. split spoon sampler with a 140# hammer having a free fall of 30". The blow count is taken in undisturbed soil immediately below a cased or open hole eliminating side friction on the drive pipe.

SUBSURFACE EXPLORATION FOR FOUNDATION DESIGN AND BIDDERS INFORMATION

To obtain relative data concerning the character of material in and upon which the foundation might be built, borings and/or soundings were made at points approximately as indicated on this drawing. The data presented herein represents the findings of the subsurface explorations made. However, because the depths investigated are limited and the area of the borings and/or soundings is very small in relation to the entire area, the Division of Highways does not warrant conditions below the depths investigated or that the classification of material encountered in these investigations is necessarily typical of the entire site.

NO.	DATE	REVISION	BY

STATE OF WISCONSIN
DEPARTMENT OF TRANSPORTATION
DIVISION OF HIGHWAYS

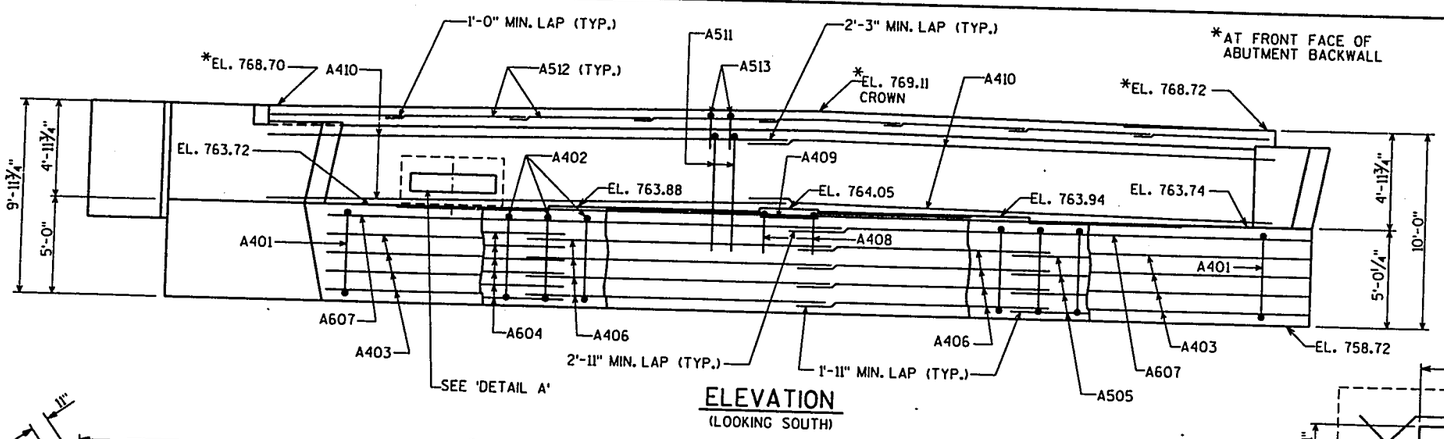
STRUCTURE B-51-78

CONST. SPEC.	1989	DRAWN BY JAR/RIES	PLANS CKD. JEK

SUBSURFACE EXPLORATION — SHEET 3

BR B5178:78SOILS.DGN

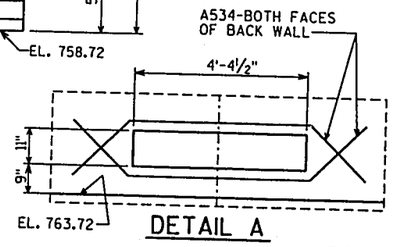
STATE PROJECT NUMBER	SHEET NO.



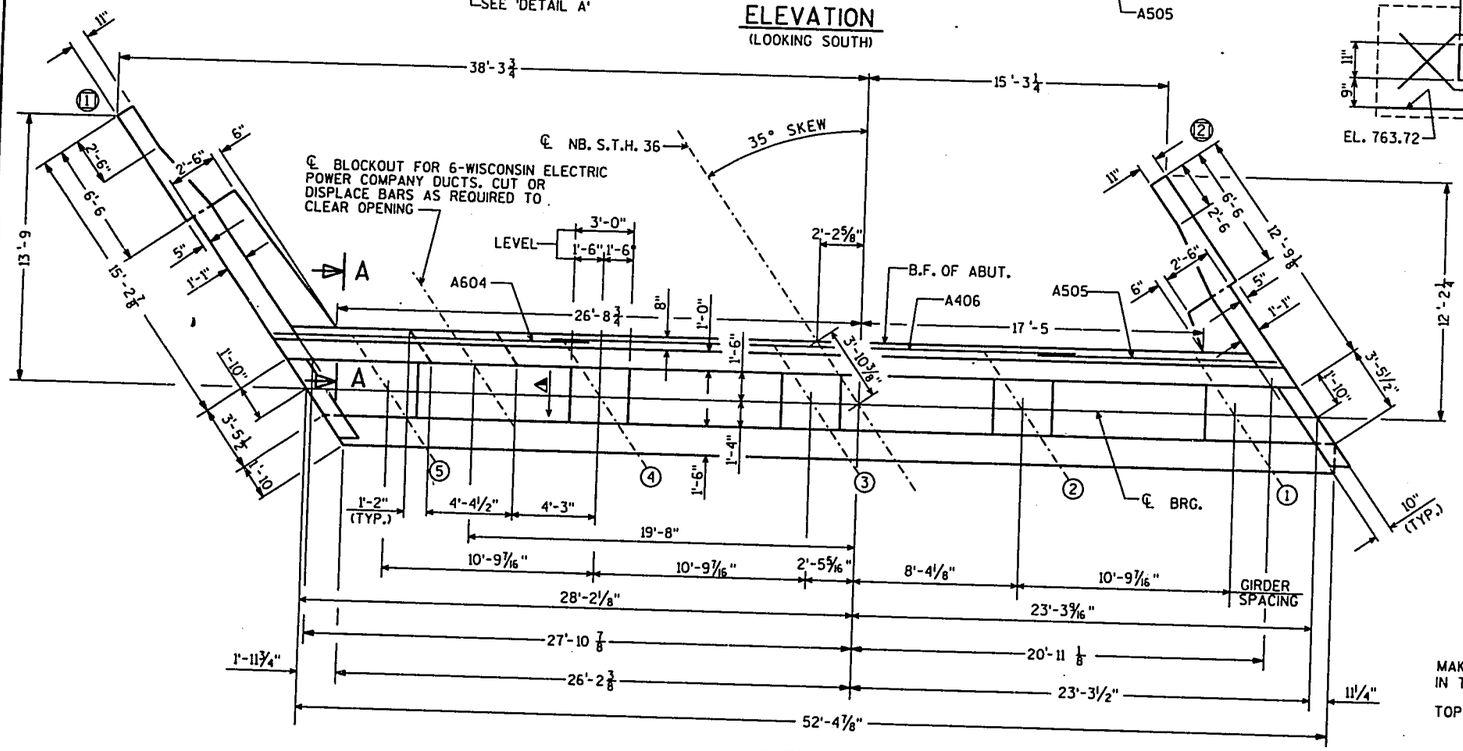
ELEVATION
(LOOKING SOUTH)

CONSTRUCTION JOINT - POUR CONCRETE ABOVE THIS JOINT AFTER SUPERSTRUCTURE CONCRETE IS IN PLACE - STRIKE OFF AND LEAVE ROUGH.

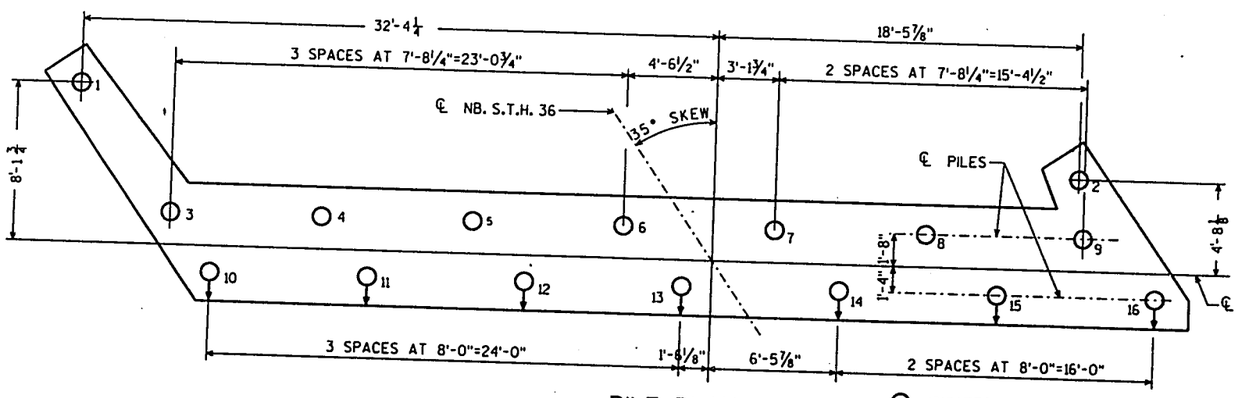
OPTIONAL CONSTRUCTION JOINT FORMED BY A SURFACED, BEVELED 2"X6" KEYWAY



DETAIL A

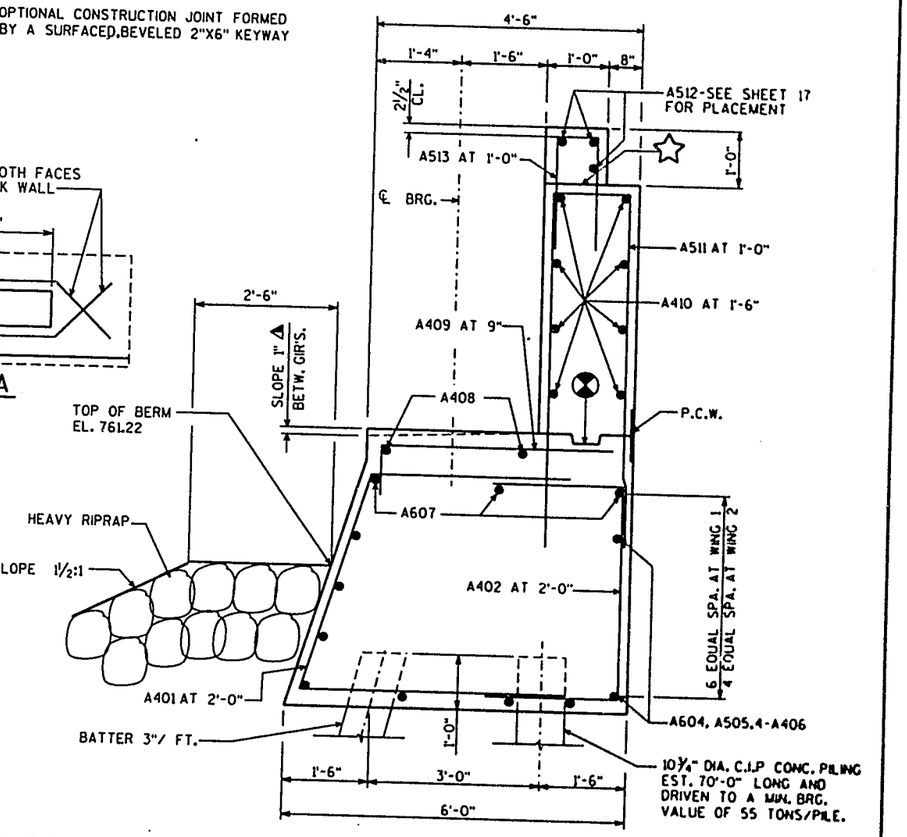


ABUTMENT PLAN



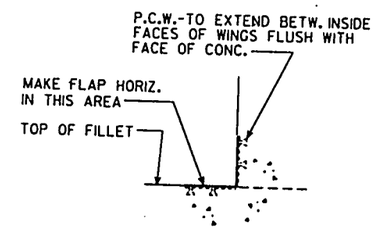
PILE PLAN

INDICATES DIRECTION OF BATTER 3" PER FOOT

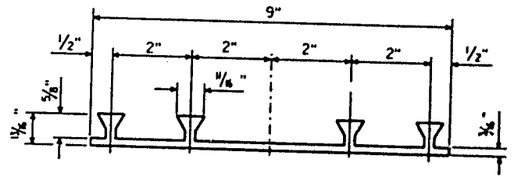


SECTION THRU ABUT. BODY

HORIZ. BARS NOT OTHERWISE IDENTIFIED ARE A403 BARS.

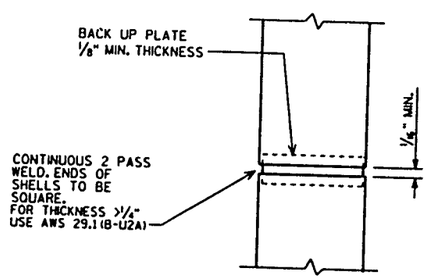


SECTION A



P.C.W.
(POLYVINYL CHLORIDE WATERSTOP)

P.C.W. SHALL BE BUTT SPLICED AT ALL INTERSECTIONS BY USING A HEATED SPLICING IRON. HOLD P.C.W. FLUSH WITH CONCRETE. SEAL ALL VERT. ENDS OF P.C.W. WITH NON-STAINING NON-BITUMINOUS JOINT SEALER. P.C.W. SHALL BE FASTENED TO THE FORMS BY NAILING OUTSIDE OF THE OUTSIDE TAB.



PILE SPLICE DETAIL

NO.	DATE	REVISION	BY

STATE OF WISCONSIN
DEPARTMENT OF TRANSPORTATION
DIVISION OF HIGHWAYS

STRUCTURE B-51-78

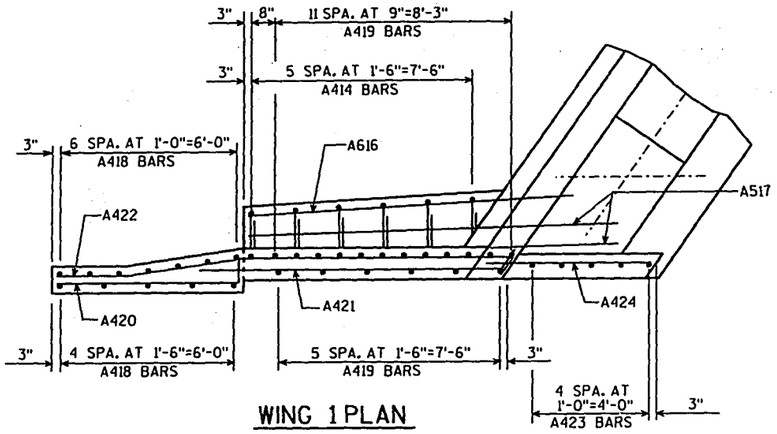
CONST. SPEC.	DRAWN BY	PLANS CHKD.
1989	RJES	J.C.K.

SOUTH ABUTMENT

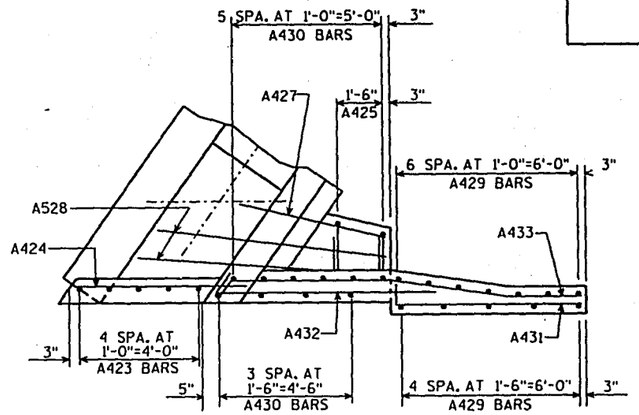
SHEET 4

BR A5178-76SABUT.DGN

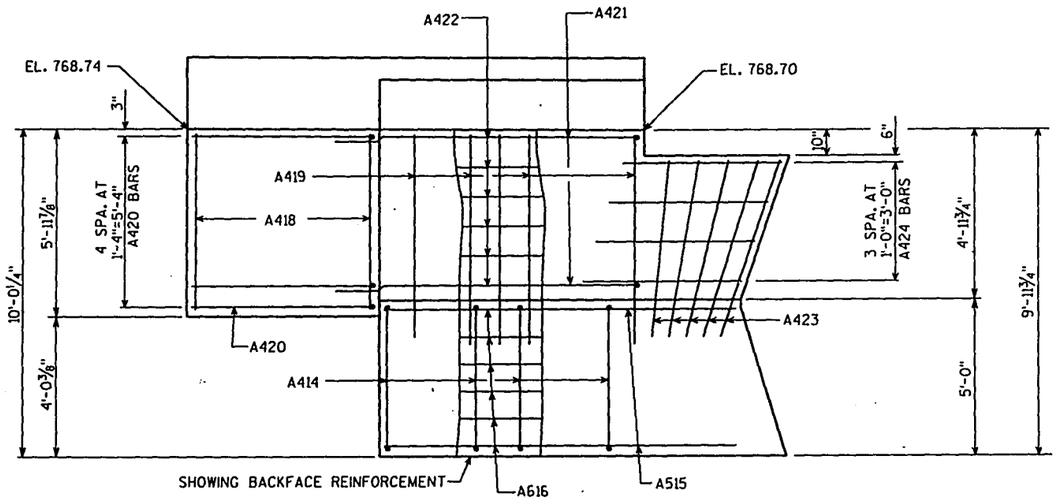
STATE PROJECT NUMBER	SHEET NO.
	4



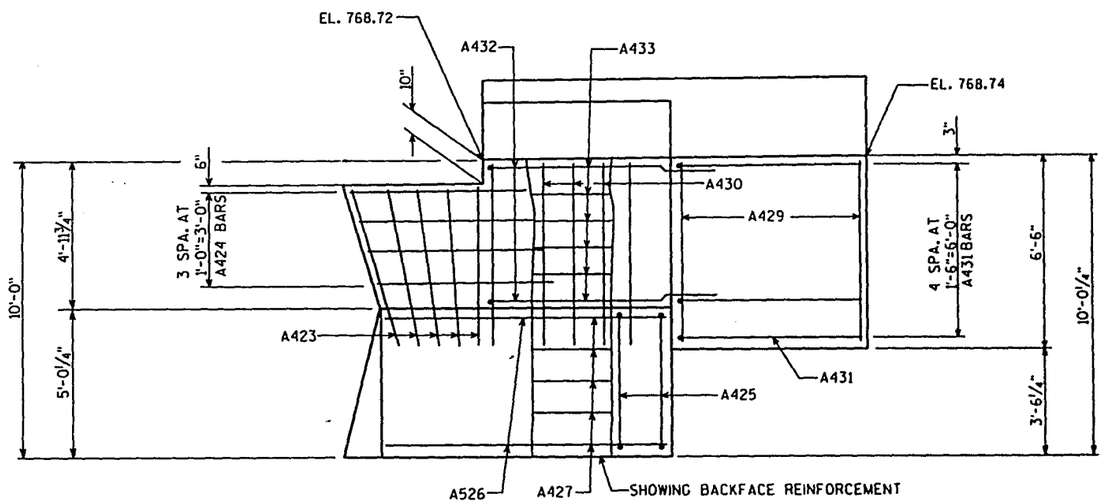
WING 1 PLAN



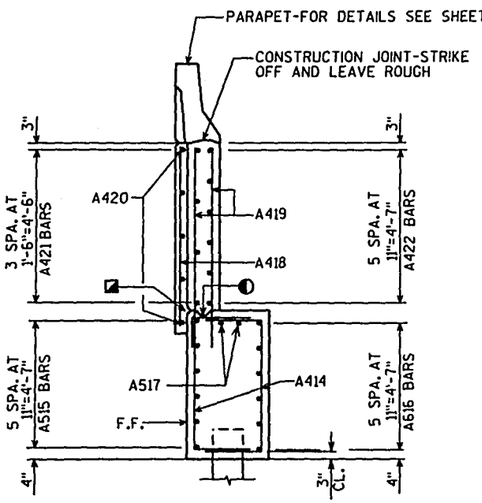
WING 2 PLAN



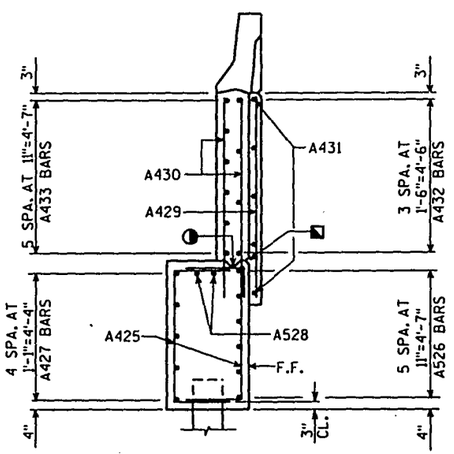
WING 1 ELEVATION



WING 2 ELEVATION

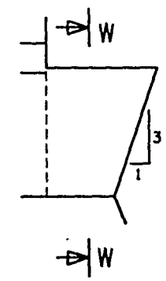


WING 1 SECTION

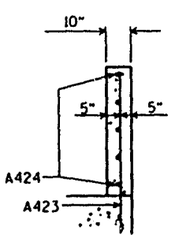


WING 2 SECTION

- ◪ ¾" 'V' GROOVE ON FRONT FACE OF WING. OMIT IF OPTIONAL CONSTRUCTION JOINT IS NOT USED.
- ◑ OPTIONAL CONSTRUCTION JOINT FORMED BY A SURFACED, BEVELED 2"X6" KEYWAY.



SIDE WALL ELEV.



SECTION W

NO.	DATE	REVISION	BY

STATE OF WISCONSIN
DEPARTMENT OF TRANSPORTATION
DIVISION OF HIGHWAYS

STRUCTURE B-51-78

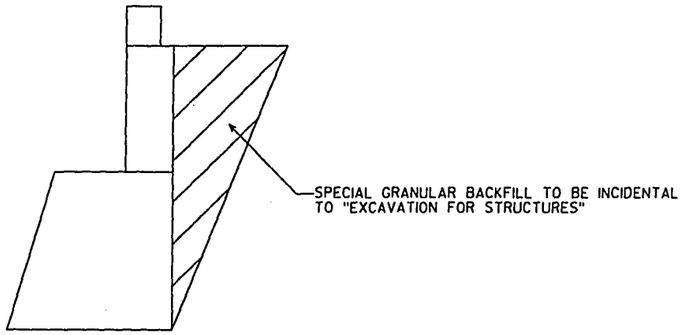
CONST. SPEC.	1989	DRAWN BY	RES	PLANS C&D	JCK

SOUTH ABUTMENT

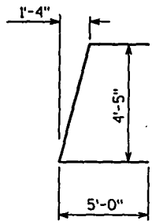
SHEET 5

BR 5178:78SABUT.DGN

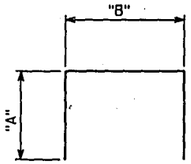
STATE PROJECT NUMBER	SHEET NO.
	6



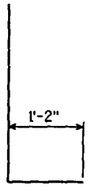
SECTION THRU BODY



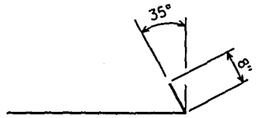
A401



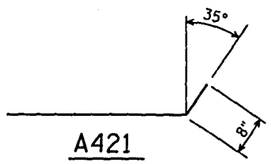
MARK	"A"	"B"
A402	2-0	4-5
A511	5-5	1-4
A513	2-0	8
A414	2-1	4-7
A425	2-1	4-7



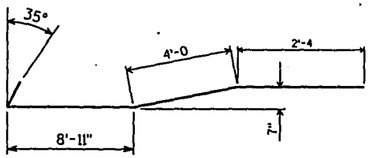
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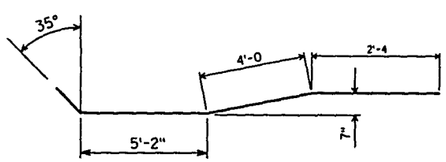
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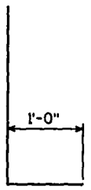
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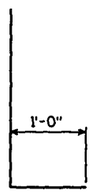
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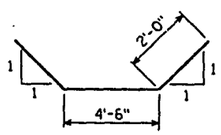
A433



A431



A420



A534

BILL OF BARS

NOTE: THE FIRST OR FIRST TWO DIGITS OF THE BAR MARK SIGNIFIES THE BAR SIZE.

BAR MARK	COAT	NO. REQ'D.	LENGTH	BENT	CUT. DIAG.	BUN-DLE	LOCATION	
A401		26	13-2	X			BODY-F.F.	VERT.
A402		26	8-3	X			BODY-B.F.	VERT.
A403		14	26-7				BODY	HORIZ.
A604		6	16-0				BODY-B.F. AT WING 1	HORIZ.
A505		4	12-0				BODY-B.F. AT WING 2	HORIZ.
A406		4	27-0				BODY-B.F.	HORIZ.
A607		6	27-1				BODY-TOP	HORIZ.
A408		2	4-9	X			BODY-TOP AT STEPS	
A409		3	2-8				BODY-TOP AT STEPS	
A410	X	16	26-3				BACKWALL	HORIZ.
A511	X	49	11-11	X			BACKWALL	VERT.
A512	X	24	7-4				PAVING BLOCK	HORIZ.
A513	X	49	4-5	X			PAVING BLOCK	VERT.
A414		12	8-7	X			WING 1-BOTTOM-F.F.&B.F.	VERT.
A515		6	11-10				WING 1-BOTTOM-F.F.	HORIZ.
A616		6	11-0				WING 1-BOTTOM-B.F.	HORIZ.
A517		2	10-0				WING 1-BOTTOM	HORIZ.
A418		12	5-7				WING 1-TOP-F.F.&B.F.	VERT.
A419		20	7-1				WING 1-TOP-F.F.&B.F.	VERT.
A420		5	7-1	X			WING 1-TOP-F.F	HORIZ.
A421		4	11-0	X			WING 1-TOP-F.F.	HORIZ.
A422		6	15-10	X			WING 1-TOP-B.F.	HORIZ.
A423		10	5-4				WINGS 1&2-SIDEWALLS	VERT.
A424		8	5-10				WINGS 1&2-SIDEWALLS	HORIZ.
A425		4	8-7	X			WING 2-BOTTOM-F.F.&B.F.	VERT.
A526		6	8-9				WING 2-BOTTOM-F.F.	HORIZ.
A427		5	4-6				WING 2-BOTTOM-B.F.	HORIZ.
A528		2	7-9				WING 2-BOTTOM	HORIZ.
A429		12	6-1				WING 2-TOP-F.F.&B.F.	VERT.
A430		10	6-1				WING 2-TOP-F.F.&B.F.	VERT.
A431		5	7-1	X			WING 2-TOP-F.F.	HORIZ.
A432		4	7-11	X			WING 2-TOP-F.F.	HORIZ.
A433		6	12-1	X			WING 2-TOP-B.F.	HORIZ.
A534	X	4	8-4				BODY-BACKWALL AT BOXOUT	

NO.	DATE	REVISION	BY

STATE OF WISCONSIN
DEPARTMENT OF TRANSPORTATION
DIVISION OF HIGHWAYS

STRUCTURE B-51-78

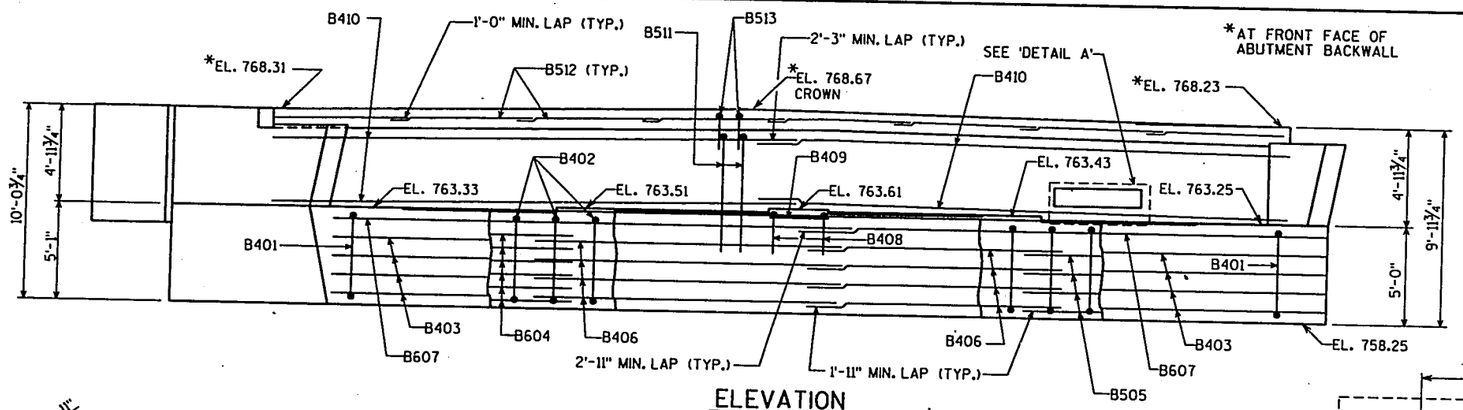
CONST. SPEC.	1989	DRAWN BY	RJES	PLANS C&D	J.C.K.

SOUTH ABUTMENT

SHEET 6

BR A5178:78SABUT.DGN

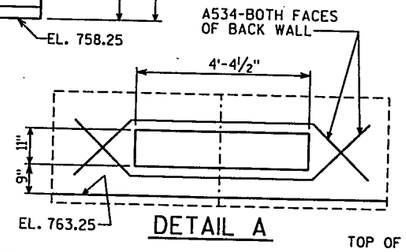
STATE PROJECT NUMBER	SHEET NO.
	8.6



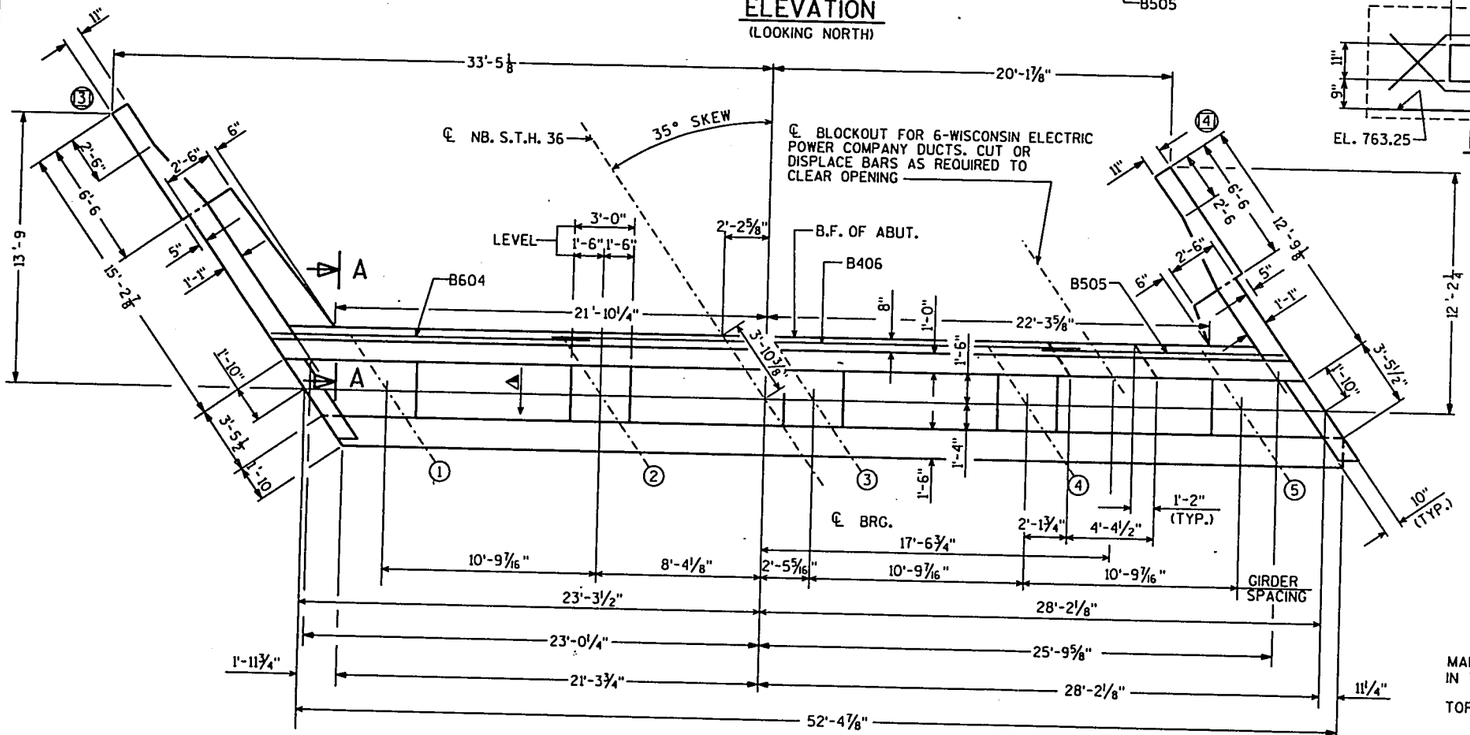
ELEVATION
(LOOKING NORTH)

CONSTRUCTION JOINT - POUR CONCRETE ABOVE THIS JOINT AFTER SUPERSTRUCTURE CONCRETE IS IN PLACE - STRIKE OFF AND LEAVE ROUGH.

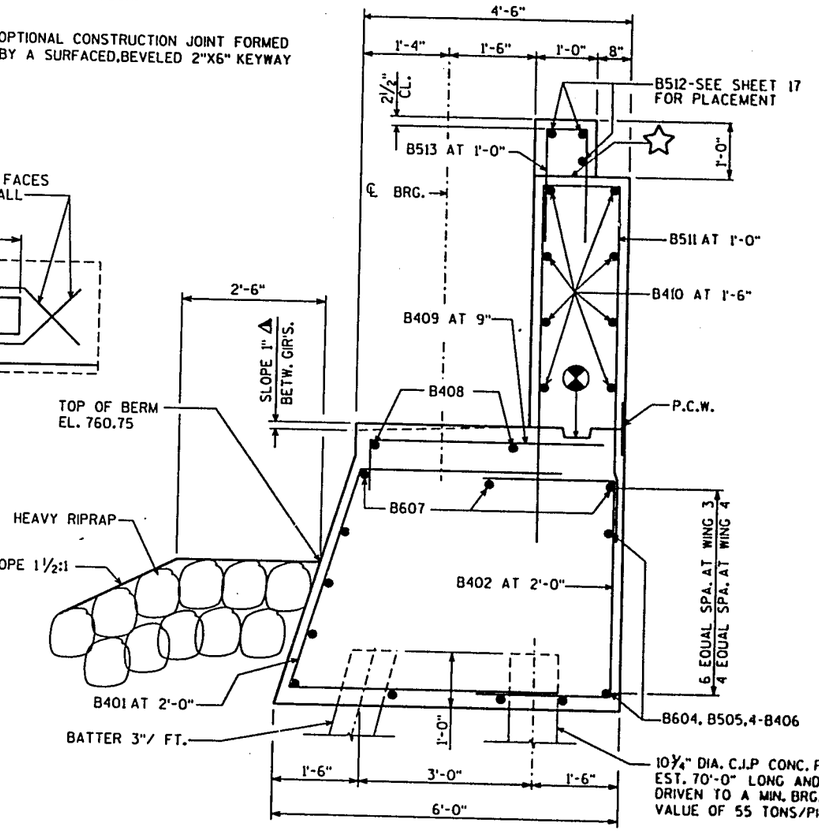
OPTIONAL CONSTRUCTION JOINT FORMED BY A SURFACED, BEVELED 2"X6" KEYWAY



DETAIL A

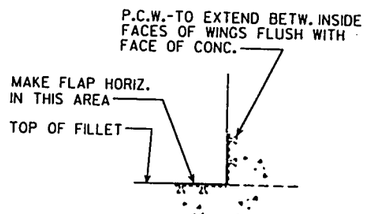


ABUTMENT PLAN

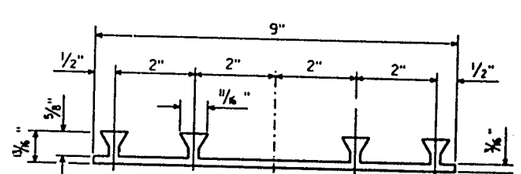


SECTION THRU ABUT. BODY

HORIZ. BARS NOT OTHERWISE IDENTIFIED ARE B403 BARS.

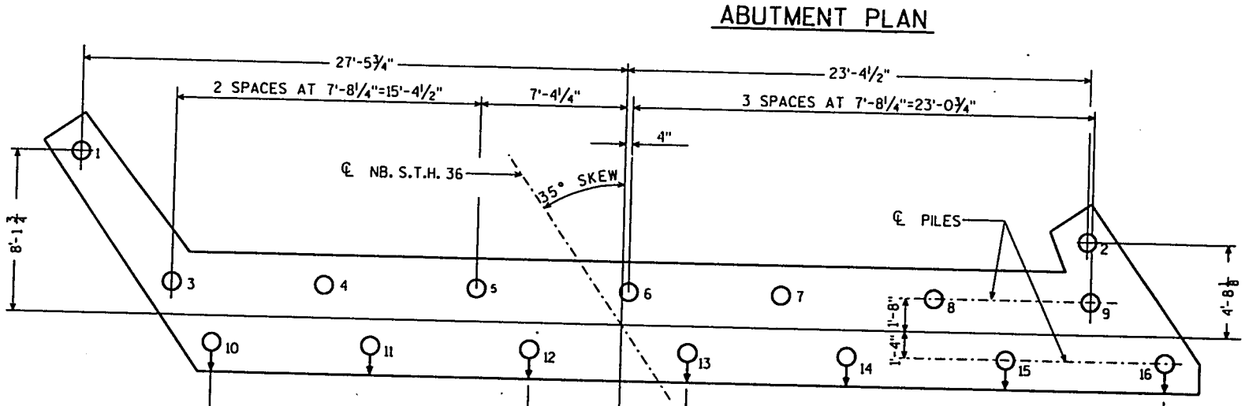


SECTION A



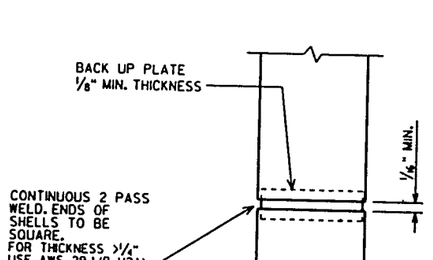
P.C.W.
(POLYVINYL CHLORIDE WATERSTOP)

P.C.W. SHALL BE BUTT SPLICED AT ALL INTERSECTIONS BY USING A HEATED SPLICING IRON. HOLD P.C.W. FLUSH WITH CONCRETE. SEAL ALL VERT. ENDS OF P.C.W. WITH NON-STAINING NON-BITUMINOUS JOINT SEALER. P.C.W. SHALL BE FASTENED TO THE FORMS BY NAILING OUTSIDE OF THE OUTSIDE TAB.



PILE PLAN

INDICATES DIRECTION OF BATTER 3" PER FOOT



PILE SPLICE DETAIL

NO.	DATE	REVISION	BY

STATE OF WISCONSIN
DEPARTMENT OF TRANSPORTATION
DIVISION OF HIGHWAYS

STRUCTURE B-51-78

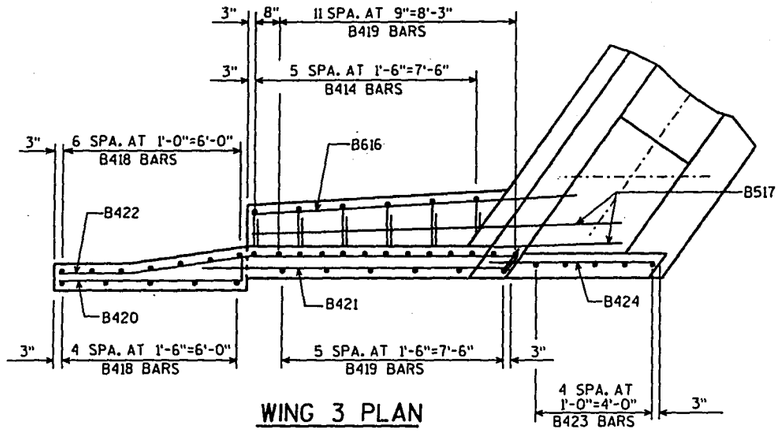
CONST. SPEC.	DRAWN BY	PLANS CHD.
1989	RIES	JCK

NORTH ABUTMENT

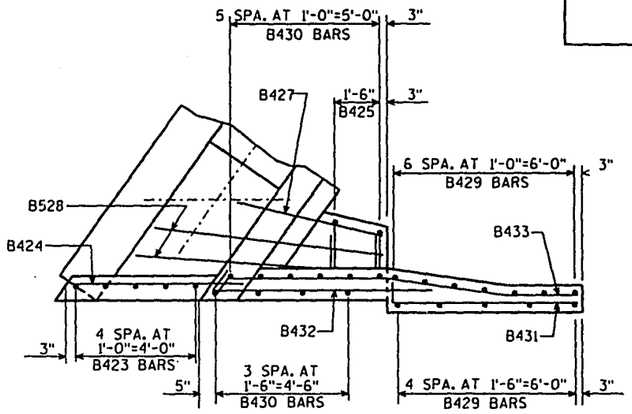
SHEET 7

BR B5178:78NABUT.DGN

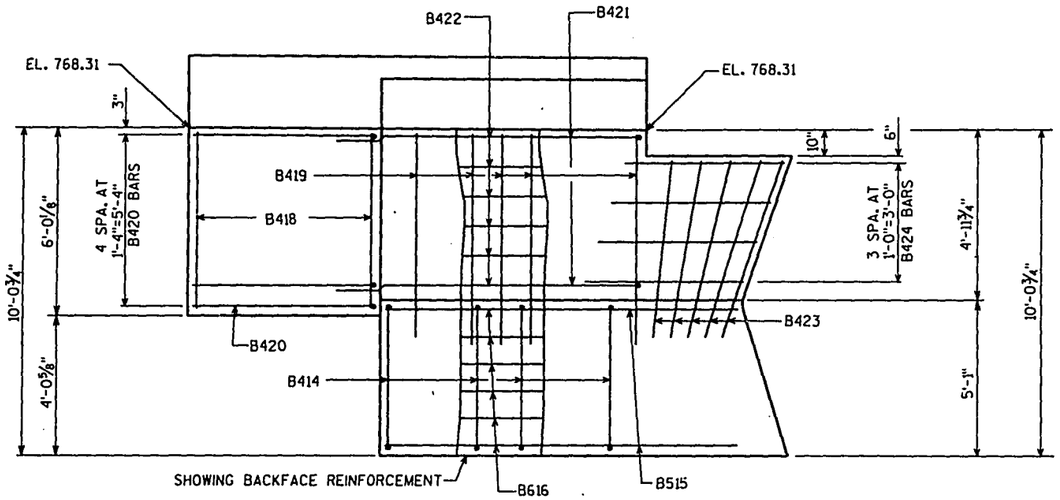
STATE PROJECT NUMBER	SHEET NO.
	9.7



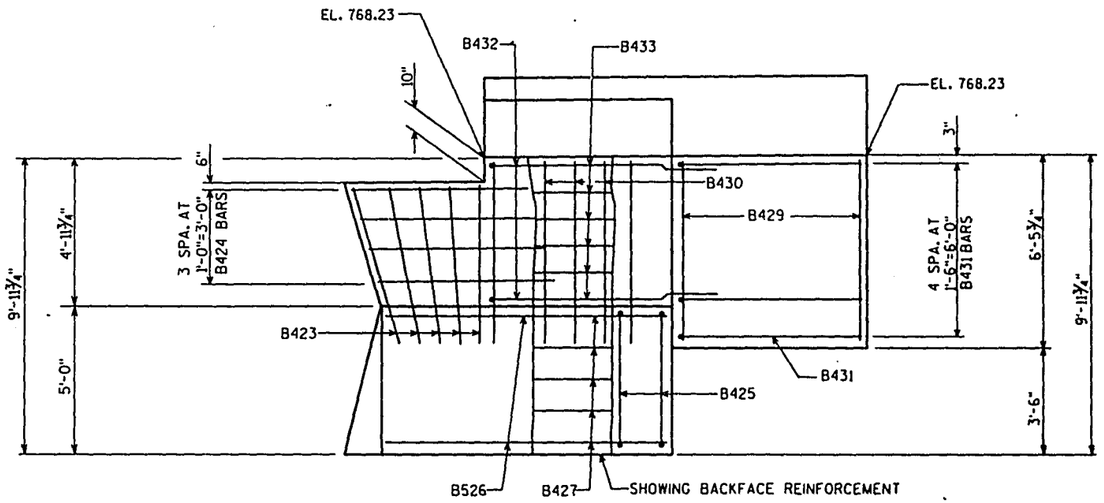
WING 3 PLAN



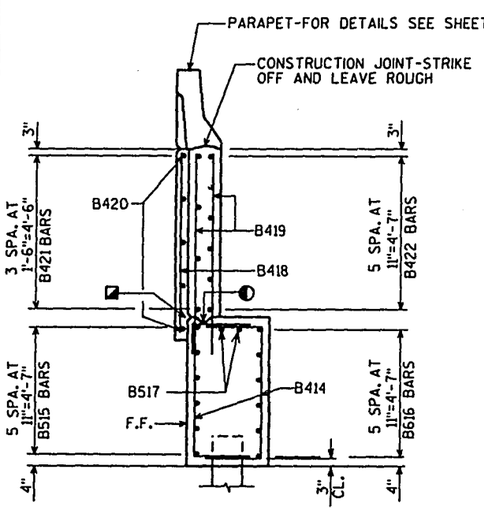
WING 4 PLAN



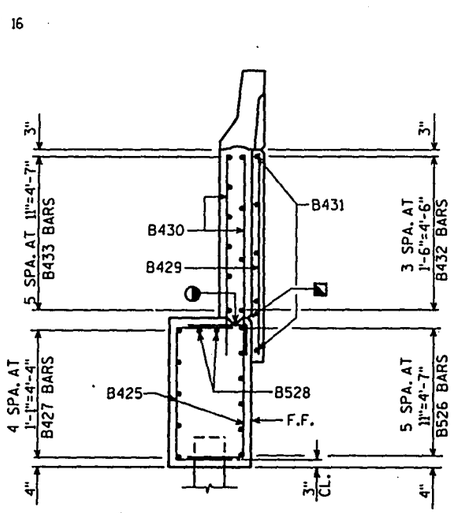
WING 3 ELEVATION



WING 4 ELEVATION



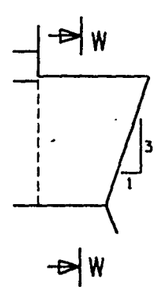
WING 3 SECTION



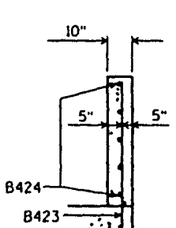
WING 4 SECTION

◪ ¾" 'V' GROOVE ON FRONT FACE OF WING. OMIT IF OPTIONAL CONSTRUCTION JOINT IS NOT USED.

◑ OPTIONAL CONSTRUCTION JOINT FORMED BY A SURFACED, BEVELED 2"X6" KEYWAY.



SIDE WALL ELEV.



SECTION W

NO.	DATE	REVISION	BY

STATE OF WISCONSIN
DEPARTMENT OF TRANSPORTATION
DIVISION OF HIGHWAYS

STRUCTURE B-51-78

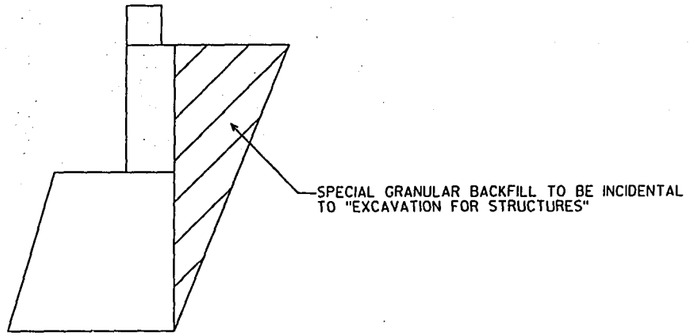
CONST. SPEC. 1989	DRAWN BY RIES	PLANS C.K.D. JCK

NORTH ABUTMENT

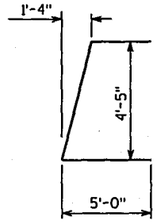
SHEET 8

BF B5178:78NABUT.DGN

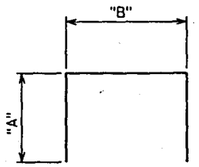
STATE PROJECT NUMBER	SHEET NO.
	9.8



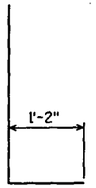
SECTION THRU BODY



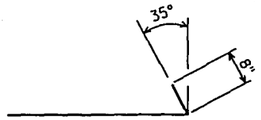
A401



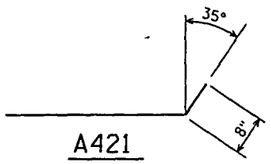
MARK	"A"	"B"
A402	2-0	4-5
A511	5-5	1-4
A513	2-0	8
A414	2-1	4-8
A425	2-1	4-7



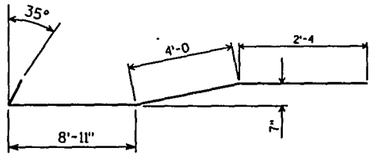
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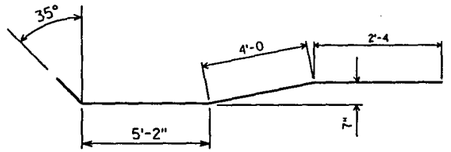
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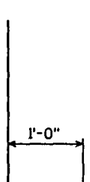
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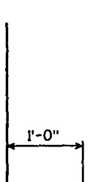
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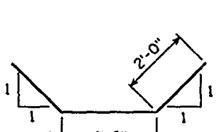
A433



A431



A420



A534

BILL OF BARS

NOTE: THE FIRST OR FIRST TWO DIGITS OF THE BAR MARK SIGNIFIES THE BAR SIZE.

BAR MARK	COAT	NO. REQ'D.	LENGTH	BENT	CUT. DIAG.	BUN-DLE	LOCATION
A401		26	13-2	X			BODY-F.F. VERT.
A402		26	8-3	X			BODY-B.F. VERT.
A403		14	26-7				BODY HORIZ.
A604		6	16-0				BODY-B.F. AT WING 1 HORIZ.
A505		4	12-0				BODY-B.F. AT WING 2 HORIZ.
A406		4	27-0				BODY-B.F. HORIZ.
A607		6	27-1				BODY-TOP HORIZ.
A408		2	4-9	X			BODY-TOP AT STEPS
A409		3	2-8				BODY-TOP AT STEPS
A410	X	16	26-3				BACKWALL HORIZ.
A511	X	49	11-11	X			BACKWALL VERT.
A512	X	24	7-4				PAVING BLOCK HORIZ.
A513	X	49	4-5	X			PAVING BLOCK VERT.
A414		12	8-8	X			WING 1-BOTTOM-F.F.&B.F. VERT.
A515		6	11-10				WING 1-BOTTOM-F.F. HORIZ.
A616		6	11-0				WING 1-BOTTOM-B.F. HORIZ.
A517		2	10-0				WING 1-BOTTOM HORIZ.
A418		12	5-7				WING 1-TOP-F.F.&B.F. VERT.
A419		20	7-1				WING 1-TOP-F.F.&B.F. VERT.
A420		5	7-1	X			WING 1-TOP-F.F HORIZ.
A421		4	11-0	X			WING 1-TOP-F.F. HORIZ.
A422		6	15-10	X			WING 1-TOP-B.F. HORIZ.
A423		10	5-4				WINGS 1&2-SIDEWALLS VERT.
A424		8	5-10				WINGS 1&2-SIDEWALLS HORIZ.
A425		4	8-7	X			WING 2-BOTTOM-F.F.&B.F. VERT.
A526		6	8-9				WING 2-BOTTOM-F.F. HORIZ.
A427		5	4-6				WING 2-BOTTOM-B.F. HORIZ.
A528		2	7-9				WING 2-BOTTOM HORIZ.
A429		12	6-1				WING 2-TOP-F.F.&B.F. VERT.
A430		10	6-1				WING 2-TOP-F.F.&B.F. VERT.
A431		5	7-1	X			WING 2-TOP-F.F. HORIZ.
A432		4	7-11	X			WING 2-TOP-F.F. HORIZ.
A433		6	12-1	X			WING 2-TOP-B.F. HORIZ.
A534	X	4	8-4				BODY-BACKWALL AT BOXOUT

NO.	DATE	REVISION	BY

STATE OF WISCONSIN
DEPARTMENT OF TRANSPORTATION
DIVISION OF HIGHWAYS

STRUCTURE B-51-78

CONST. SPEC.	DRAWN BY	PLANS C&D.
1989	RIES	JCK

NORTH ABUTMENT

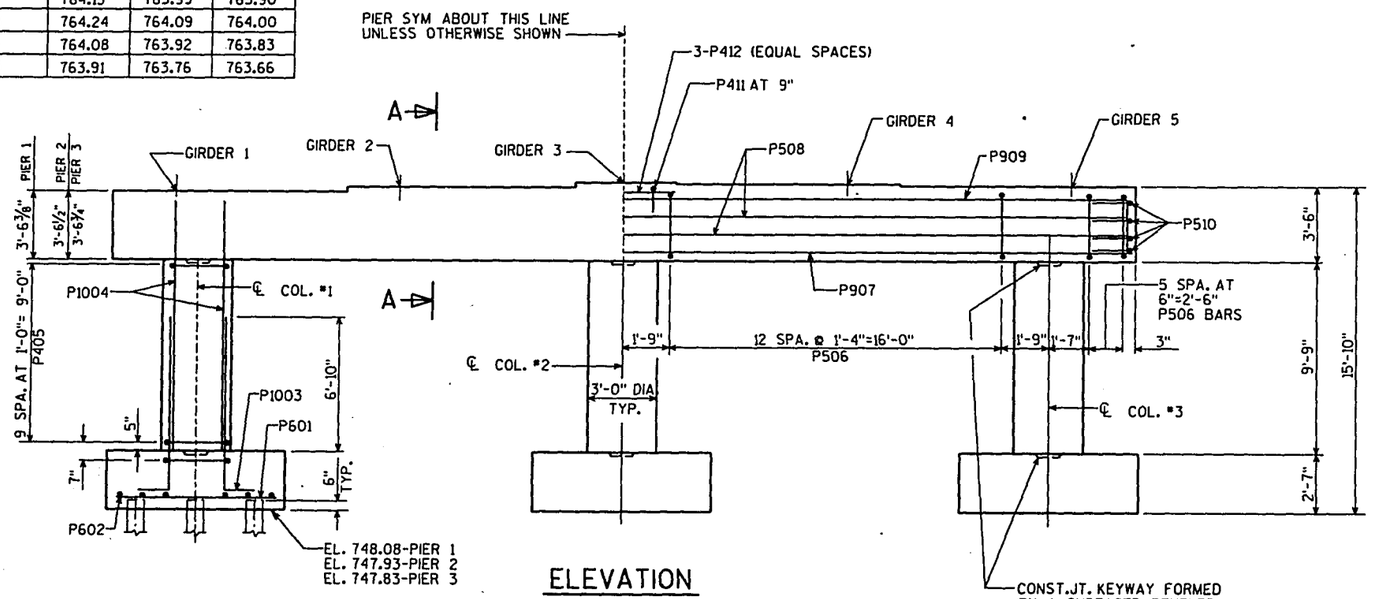
SHEET 9

BR B5178:78NABUT.DGN

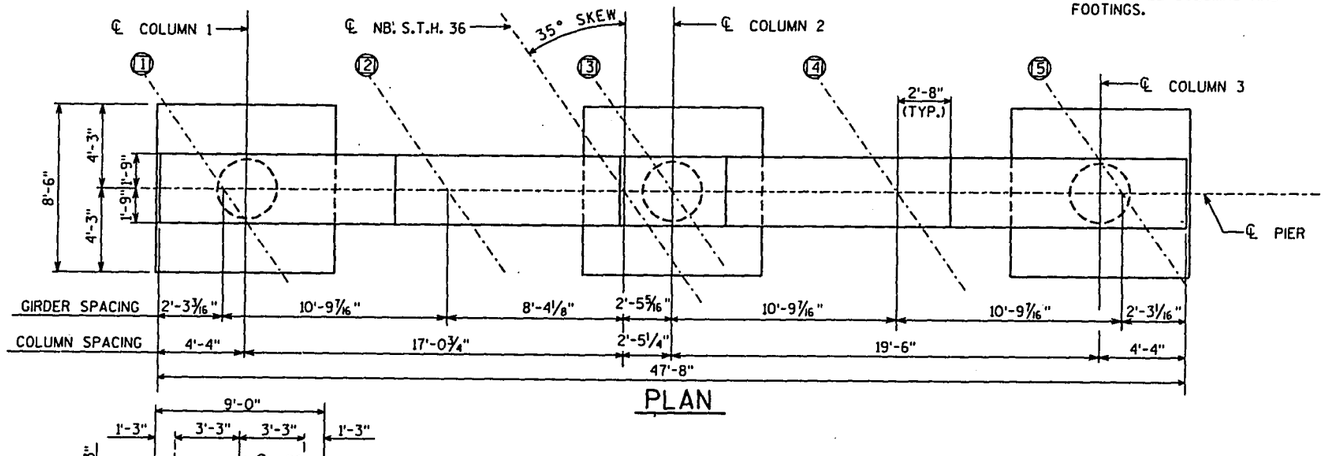
STATE PROJECT NUMBER	SHEET NO.
	8.9

BEAM SEAT ELEVATION TABLE

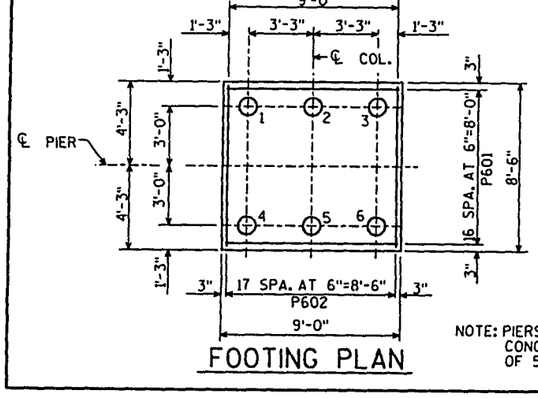
GIRDER NO.	PIER 1	PIER 2	PIER 3
1	763.94	763.80	763.72
2	764.13	763.99	763.90
3	764.24	764.09	764.00
4	764.08	763.92	763.83
5	763.91	763.76	763.66



ELEVATION
(LOOKING NORTH)

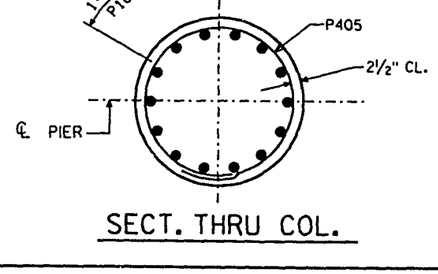


PLAN



FOOTING PLAN

NOTE: PIERS TO BE SUPPORTED ON 10¾" DIA. C.I.P. CONCRETE PILING DRIVEN TO A MINIMUM BEARING OF 55 TONS PER PILE. ESTIMATED 60'-0" LONG.

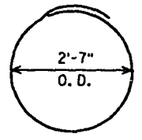


SECT. THRU COL.

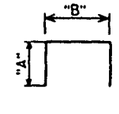
BILL OF BARS

NOTE: THE FIRST OR FIRST TWO DIGITS OF THE BAR MARK SIGNIFIES THE BAR SIZE.

BAR MARK	COAT	NUMBER REQUIRED PIER 1	PIER 2	PIER 3	LENGTH	BENT	CUT. DIAG.	BUN-DLE	LOCATION	
P601		51	51	51	8-8				FOOTING	TRANS.
P602		54	54	54	8-2				FOOTING	LONGIT
P1003	X	42	42	42	10-4	X			FOOTING & COLUMN	VERT.
P1004	X	42	42	42	12-9				COLUMN & CAP	VERT.
P405	X	33	33	33	9-2	X			FOOTING & COLUMN-HOOPS	HORIZ.
P506	X	38	38	38	12-11	X			CAP-STIRRUPS	VERT.
P907	X	6	6	6	47-3				CAP-BOTTOM	HORIZ.
P508	X	4	4	4	47-3				CAP-MIDDLE	HORIZ.
P909	X	7	7	7	51-7	X			CAP-TOP	HORIZ.
P510	X	8	8	8	6-2	X			CAP AT ENDS	HORIZ.
P411	X	7	7	7	4-11	X			CAP AT BEAM SEAT 3	VERT.
P412	X	3	3	3	5-0				CAP AT BEAM SEAT 3	HORIZ.



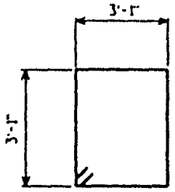
P405



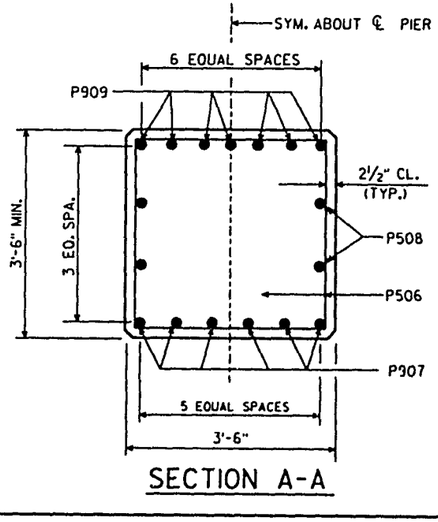
BAR	"A"	"B"
P909	2'-6"	47'-1"
P510	1'-9"	2'-11"
P411	1'-0"	3'-1"



P1003



P506



SECTION A-A

NO.	DATE	REVISION	BY

STATE OF WISCONSIN
DEPARTMENT OF TRANSPORTATION
DIVISION OF HIGHWAYS

STRUCTURE B-51-78

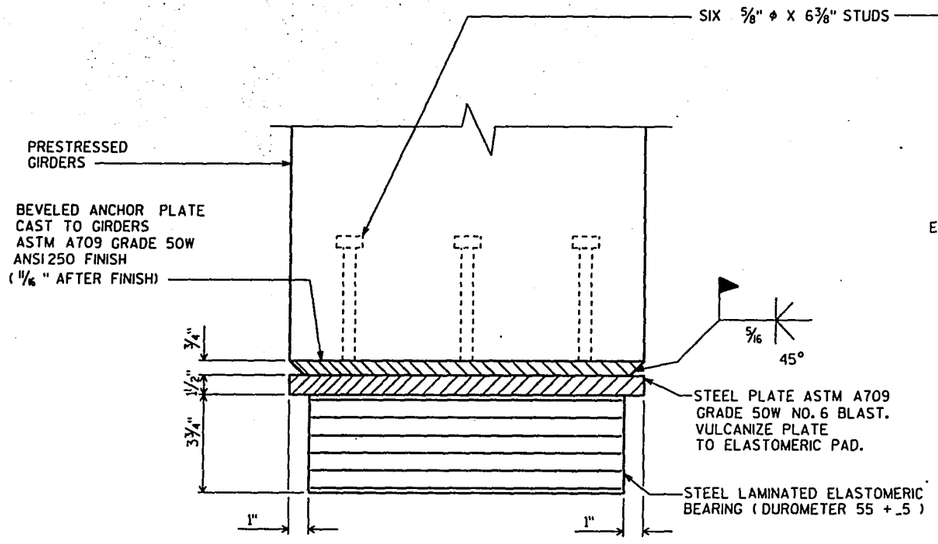
CONST. SPEC.	DRAWN BY	PLANS C.D.
1989	RJES	3C%

PIERS

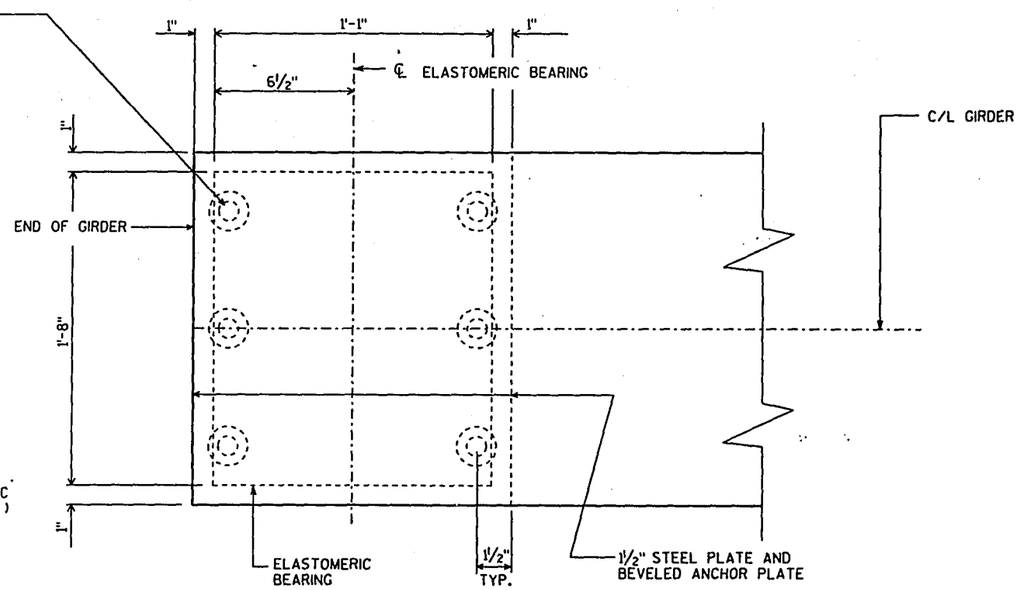
SHEET NO.

BR_B5178-78PIERS.DGN

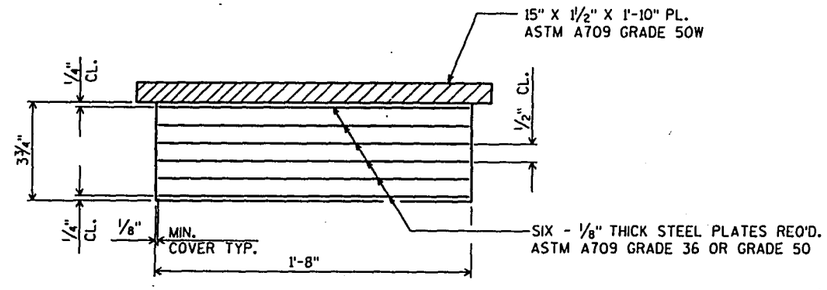
STATE PROJECT NUMBER	SHEET NO.
	8.10



END VIEW



PLAN VIEW



SECTION THRU ELASTOMERIC BEARING

NOTE:

BEARINGS SHALL NOT BE PLACED AT A TEMPERATURE GREATER THAN 70 ° F.

ALL MATERIAL USED FOR BEARINGS SHALL BE PAID AT THE UNIT PRICE BID FOR "LAMINATED ELASTOMERIC BEARING PAD."

NO.	DATE	REVISION	BY

STATE OF WISCONSIN
DEPARTMENT OF TRANSPORTATION
DIVISION OF HIGHWAYS

STRUCTURE B-51-78

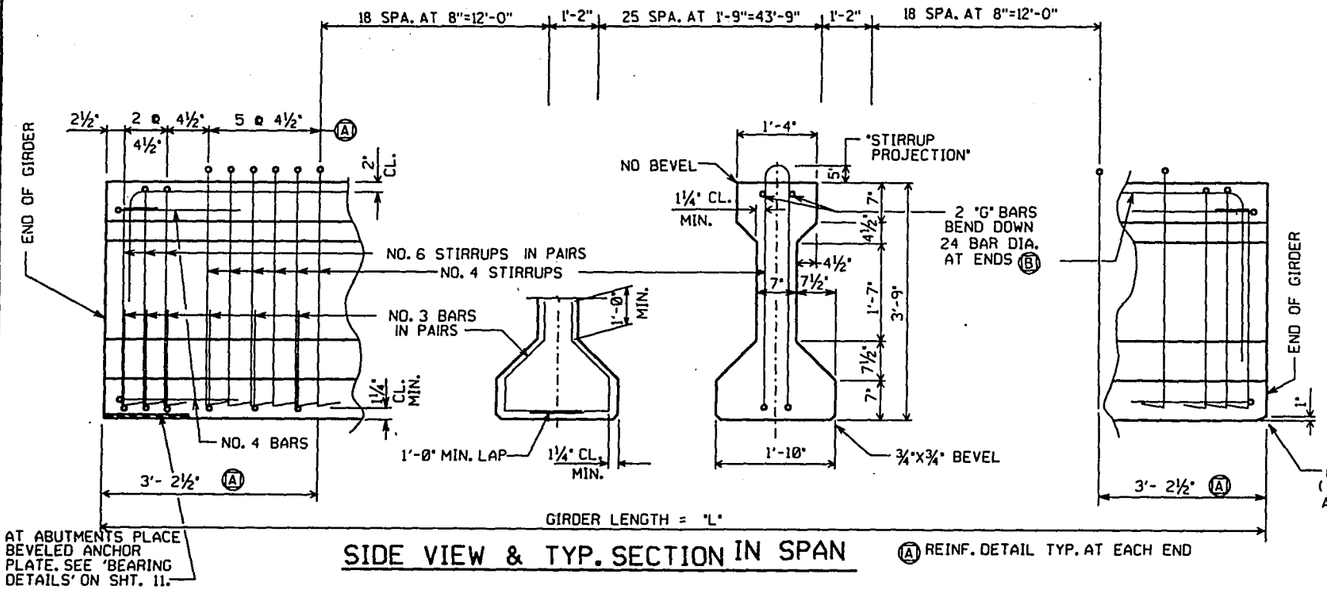
CONST. SPEC. 1989	DRAWN BY RJES	PLANS CHKD. J.R.K.

PRESTRESSED GIRDER BEARINGS AT ABUTMENTS

SHEET 11

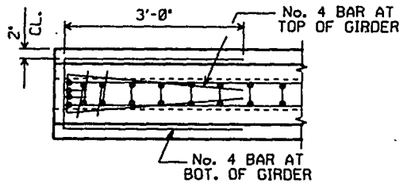
BR_B5178-78BEAR.DGN

STATE PROJECT NUMBER	SHEET NO.
	8.11

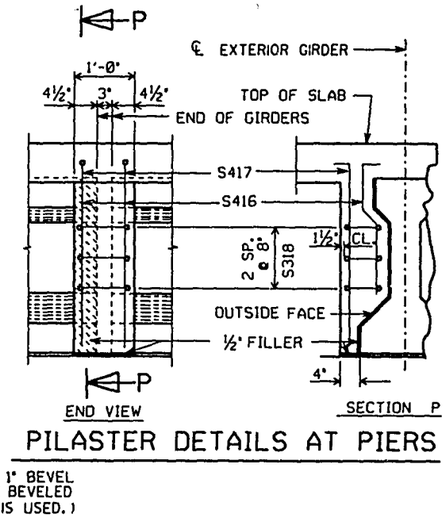


SIDE VIEW & TYP. SECTION IN SPAN

Ⓐ REINF. DETAIL TYP. AT EACH END



TOP VIEW OF GIRDER ENDS



PILASTER DETAILS AT PIERS

GIRDER NOTES

TOP OF GIRDER TO BE ROUGH FLOATED AND BROOMED TRANSVERSELY, EXCEPT THE OUTSIDE 2" OF GIRDER, WHICH SHALL BE TROWEL FINISHED.

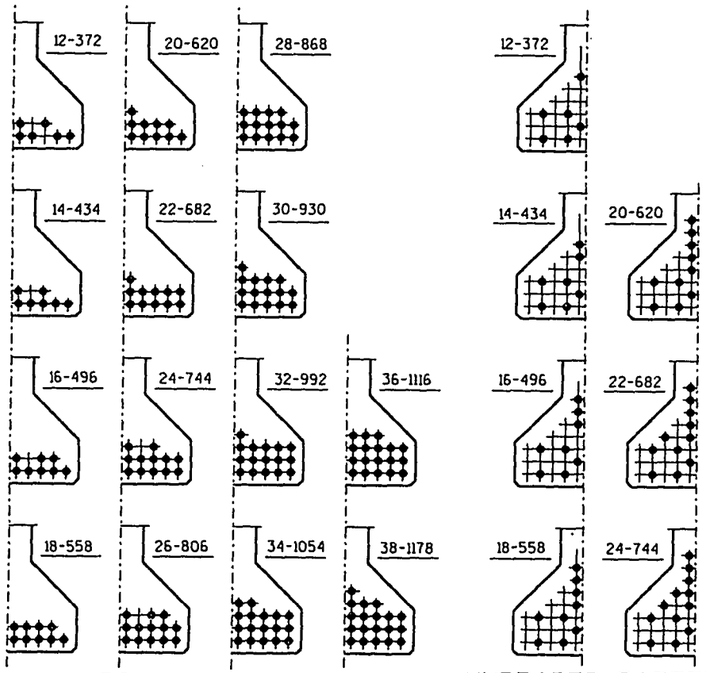
THE GIRDERS SHALL BE PROVIDED WITH A SUITABLE LIFTING DEVICE FOR HANDLING AND ERECTING THE GIRDERS.

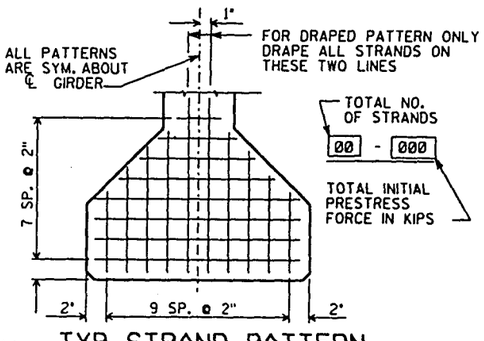
PRESTRESSING STRANDS SHALL BE ½"ϕ - 7 WIRE LOW-RELAXATION STRANDS WITH AN ULTIMATE STRENGTH OF 270,000 psi AND SHALL BE FLUSH WITH THE ENDS OF THE GIRDER.

BEND EACH END OF No. 4 STIRRUPS 4½" AND No. 6 STIRRUPS 6½".

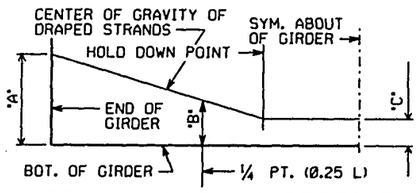
FOR DIAPHRAGM INSERT & CONNECTION DETAILS SEE "STEEL DIAPHRAGM" SHEET.

ENDS OF STRANDS SHALL BE PAINTED WITH NON-STAINING GRAY NON-BITUMINOUS JOINT SEALER. (THIS APPLIES ONLY TO THOSE ENDS OF GIRDERS THAT ARE FINALLY EXPOSED.)

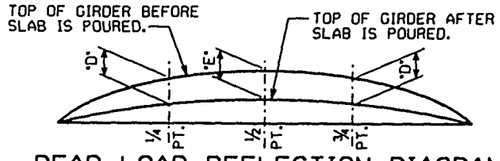




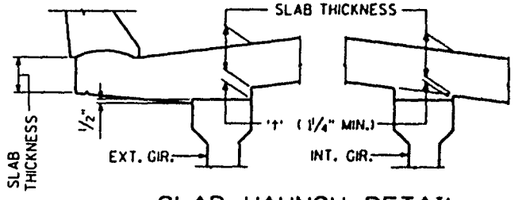
TYP. STRAND PATTERN



DRAPED STRAND PROFILE



DEAD LOAD DEFLECTION DIAGRAM



SLAB HAUNCH DETAIL

IF 1¼" MINIMUM HAUNCH HEIGHT 't' CANNOT BE MAINTAINED, THE GRADE LINE MAY BE REVISED BY THE ENGINEER AT THE OPTION OF THE CONTRACTOR. THE PLAN SLAB THICKNESS SHALL BE HELD. MAXIMUM HAUNCH HEIGHT EQUALS "STIRRUP PROJECTION" MINUS 3 INCHES.

TO DETERMINE 't', ELEV. OF TOP OF GIR'S. AT ℄ OF SUBSTRUCTURE UNITS & AT ¼ POINTS OF EACH SPAN SHALL BE TAKEN. THEN FOLLOW THIS PROCESS:

TOP OF DECK ELEV. AT FINAL GRADE
-TOP OF GIRDER ELEVATION
+ DEADLOAD DEFLECTION
-SLAB THICKNESS
=HAUNCH HEIGHT 't'

GIRDER DATA

SPAN	GIRDER LENGTH "L"	DEAD LOAD DEFL. (IN.) "D"	DEAD LOAD DEFL. (IN.) "E"	CONC. STRGTH. f'c (p.s.i.)	"STIRRUP PROJECTION"
1&4	76'-6"	¾"	1"	6,000	6"
2&3	76'-6"	⅞"	1⅛"	6,000	6"

Ⓑ No. 4 "C" BARS, MAY BE SPLICED. USE 1'-11" MIN. LAP.

DRAPED PATTERN						UNDRAPED PATTERN	
TOTAL NO. OF STRANDS	f'ci (p.s.i.) *	("A"	"B" MIN.	"B" MAX.	"C") (INCHES)	TOTAL NO. OF STRANDS	f'ci (p.s.i.) *
26	4,800	40	13	16	4		
26	4,800	40	13	16	4		

✳ MINIMUM CYLINDER STRENGTH OF CONCRETE ⊙ TIME OF TRANSFER OF PRESTRESS FORCE.

NO.	DATE	REVISION	BY

STATE OF WISCONSIN
DEPARTMENT OF TRANSPORTATION
DIVISION OF HIGHWAYS

STRUCTURE B-51-78

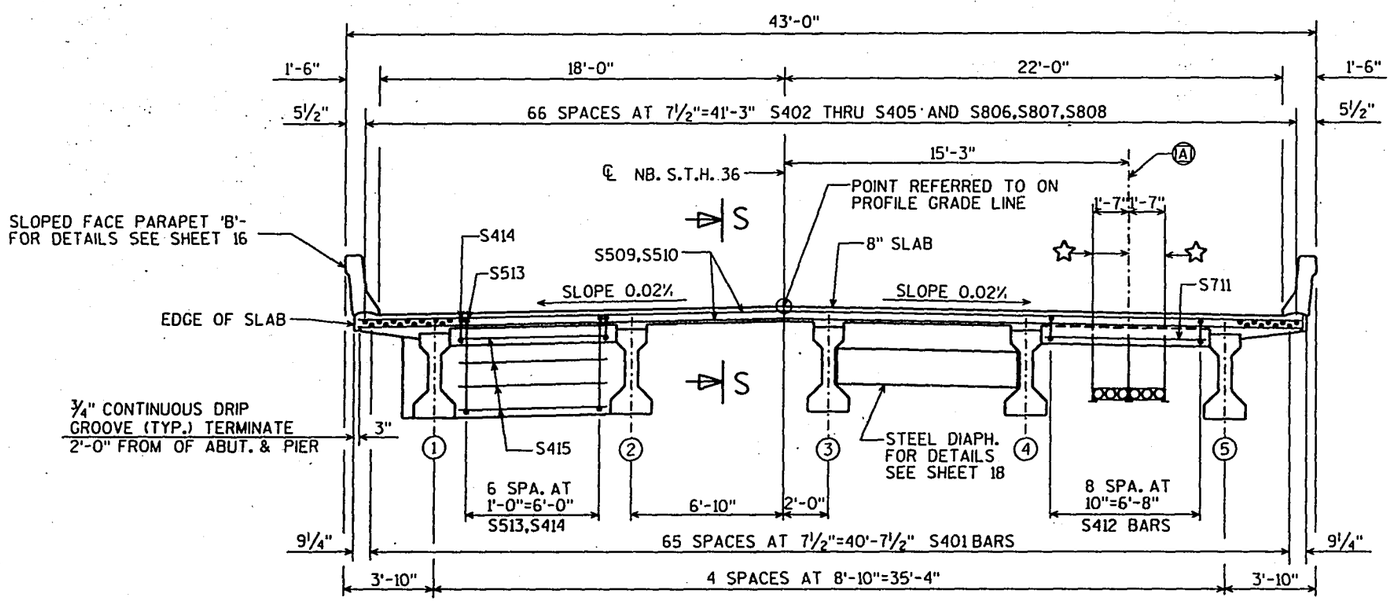
CONST. SPEC. 1989	DRAWN BY RIES	PLANS CHK'D JCK

45" PRESTRESSED GIRDER DETAILS

SHEET 12

88.8:178:78\GRD.DGN 3

STATE PROJECT NUMBER	SHEET NO.
	8.12.

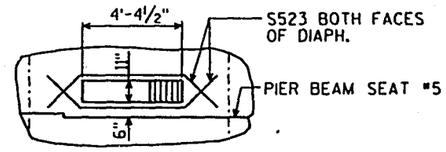


CROSS SECTION THRU ROADWAY - LOOKING NORTH

45" PRESTRESSED GIRDERS

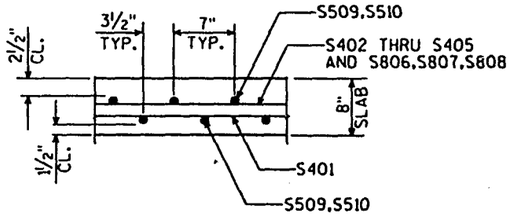
Ⓐ 6-5" DIA. WISCONSIN ELECTRIC POWER COMPANY DUCTS. PROVIDE AN 11" X 3'-7" BLOCKOUT IN PIER DIAPHRAGM FOR DUCTS. CUT OR DISPLACE BAR RAINFORCEMENT AS REQUIRED TO CLEAR BY 2".

☆ INSERTS SHALL BE SUPPLIED BY THE UTILITY AND PLACED BY THE CONTRACTOR. COST OF PLACING THE INSERTS SHALL BE INCLUDED IN THE PRICE BID FOR "CONCRETE MASONRY".

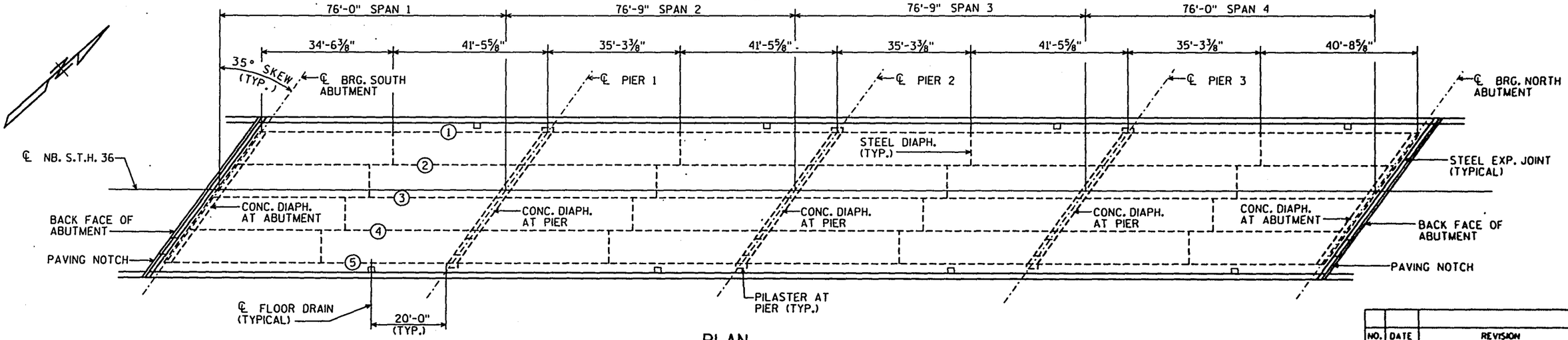


SECTION AT PIER DIAPHRAGM BLOCKOUT

(TAKEN ALONG ℄ PIER)



SECTION S



PLAN

NO.	DATE	REVISION	BY

STATE OF WISCONSIN
DEPARTMENT OF TRANSPORTATION
DIVISION OF HIGHWAYS

STRUCTURE B-51-78

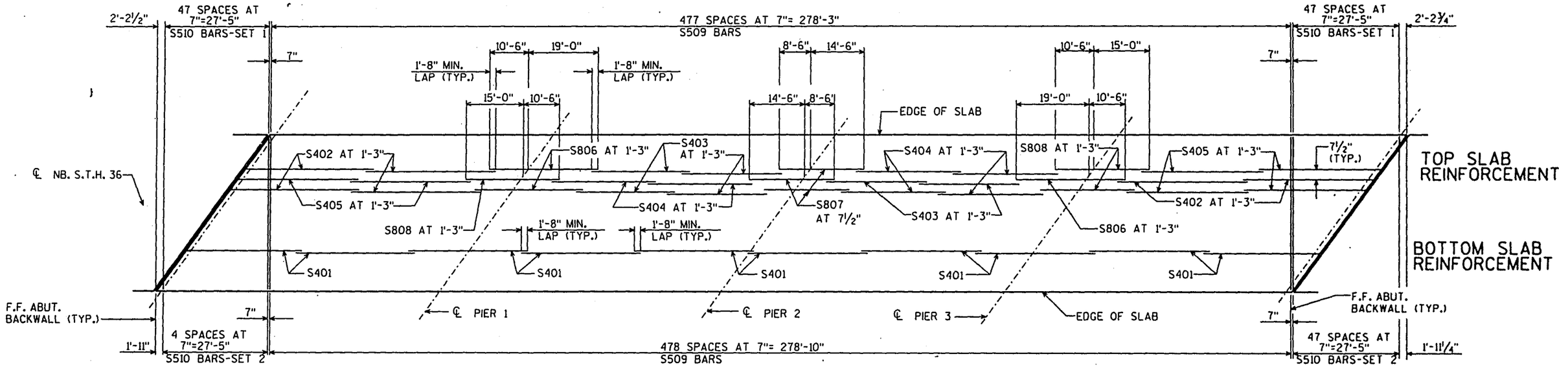
CONST. SPEC.	DRAWN BY	PLANS CHKD.
1989	RIES	JCK

SUPERSTRUCTURE

SHEET 13

BR B5178 78SUPER.DGN

STATE PROJECT NUMBER	SHEET NO.
	41



PLAN

TOP OF DECK ELEVATIONS

(FEET)	C/L BRG. S. ABUT.	⅛ PT.	¼ PT.	⅜ PT.	½ PT.	⅝ PT.	¾ PT.	⅞ PT.	C/L PIER 1	⅛ PT.	¼ PT.	⅜ PT.	½ PT.	⅝ PT.	¾ PT.	⅞ PT.	C/L PIER 2
GIRDER 1	768.76	768.74	768.72	768.70	768.67	768.65	768.63	768.61	768.59	768.57	768.55	768.53	768.51	768.49	768.48	768.46	768.45
GIRDER 2	768.95	768.93	768.91	768.89	768.87	768.84	768.82	768.80	768.78	768.76	768.74	768.72	768.70	768.68	768.67	768.65	768.64
GIRDER 3	769.07	769.04	769.02	769.00	768.98	768.96	768.93	768.91	768.89	768.87	768.85	768.83	768.81	768.79	768.77	768.76	768.74
GIRDER 4	768.90	768.88	768.86	768.84	768.81	768.79	768.77	768.75	768.73	768.70	768.68	768.66	768.64	768.62	768.61	768.59	768.57
GIRDER 5	768.74	768.72	768.70	768.67	768.65	768.63	768.61	768.59	768.56	768.54	768.52	768.50	768.48	768.46	768.44	768.42	768.41

TOP OF DECK ELEVATIONS

(FEET)	⅛ PT.	¼ PT.	⅜ PT.	½ PT.	⅝ PT.	¾ PT.	⅞ PT.	C/L PIER 3	⅛ PT.	¼ PT.	⅜ PT.	½ PT.	⅝ PT.	¾ PT.	⅞ PT.	C/L BRG. N. ABUT.
GIRDER 1	768.44	768.42	768.41	768.40	768.39	768.39	768.38	768.37	768.37	768.36	768.36	768.36	768.35	768.35	768.35	768.35
GIRDER 2	768.62	768.61	768.60	768.59	768.58	768.57	768.56	768.55	768.55	768.54	768.54	768.53	768.53	768.53	768.53	768.53
GIRDER 3	768.73	768.71	768.70	768.69	768.68	768.67	768.66	768.65	768.65	768.64	768.64	768.63	768.63	768.63	768.63	768.63
GIRDER 4	768.56	768.55	768.53	768.52	768.51	768.50	768.49	768.48	768.47	768.47	768.46	768.46	768.45	768.45	768.45	768.45
GIRDER 5	768.39	768.38	768.36	768.35	768.34	768.33	768.32	768.31	768.30	768.30	768.29	768.28	768.28	768.28	768.27	768.27

NO.	DATE	REVISION	BY

STATE OF WISCONSIN
DEPARTMENT OF TRANSPORTATION
DIVISION OF HIGHWAYS

STRUCTURE B-51-78

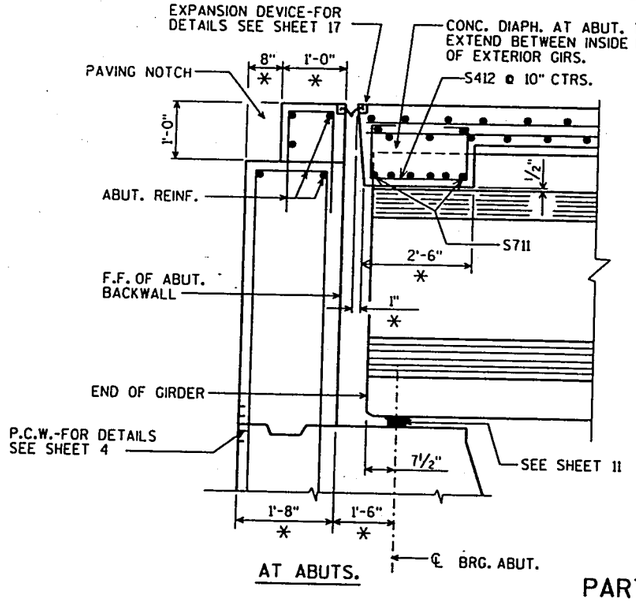
CONST. SPEC. 1989	DRAWN BY AIES	PLANS CHKD. J.C.K.

SUPERSTRUCTURE

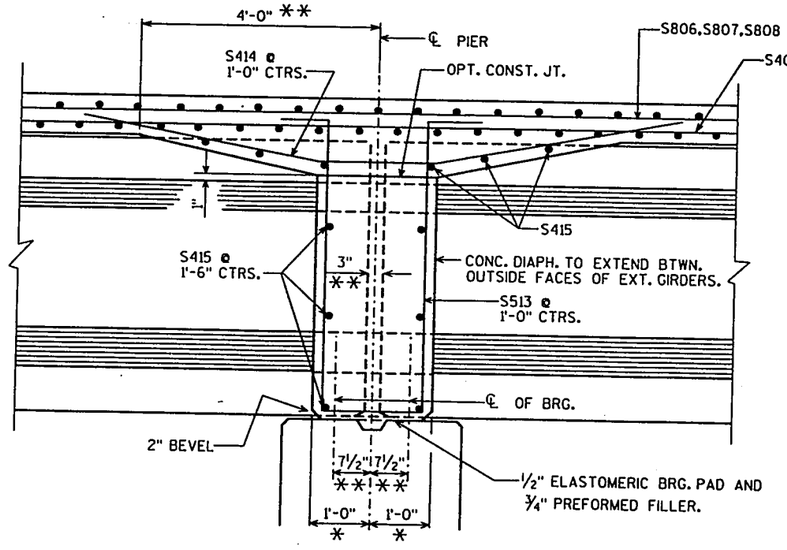
SHEET 14

BR B5178:76SUPER.DGN

STATE PROJECT NUMBER	SHEET NO.
	3.4



AT ABUTS.



AT PIER DIAPH.

PART LONGITUDINAL SECTION

* DIMENSIONS TAKEN AT RIGHT ANGLES TO SUBSTRUCTURE UNITS.

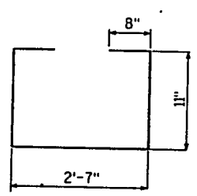
** DIMENSIONS GIVEN PARALLEL TO ℄ OF GIRDER.

BILL OF BARS

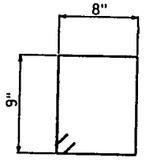
NOTE: THE FIRST OR FIRST TWO DIGITS OF THE BAR MARK SIGNIFIES THE BAR SIZE.

BAR MARK	COAT	NO. REQ'D.	LENGTH	BENT	CUT. DIAG.	BUN-DLE	LOCATION	
S401	X	660	32-5				SLAB-BOTTOM	LONGIT
S402	X	134	35-3				SLAB-TOP	LONGIT
S403	X	134	27-3				SLAB-TOP	LONGIT
S404	X	134	28-5				SLAB-TOP	LONGIT
S405	X	134	32-11				SLAB-TOP	LONGIT
S806	X	67	29-6				SLAB-TOP OVER PIER 1 & 3	LONGIT
S807	X	67	23-0				SLAB-TOP OVER PIER 2	LONGIT
S808	X	67	25-6				SLAB-TOP OVER PIER 1 & 3	LONGIT
S509	X	957	41-10				SLAB-TOP & BOTTOM	TRANS.
S510	X	96	43-0		X		SLAB-TOP & BOTTOM	TRANS.
S711	X	48	8-9				DIAPH. AT ABUT.	HORIZ.
S412	X	72	5-5	X			DIAPH. AT ABUT.	VERT.
S513	X	84	11-2	X			DIAPH. AT PIER	VERT.
S414	X	84	9-11	X			DIAPH. AT PIER	HORIZ.
S415	X	144	8-0				DIAPH. AT PIER	HORIZ.
S416	X	12	3-4	X			PILASTER	VERT.
S417	X	12	4-7	X			PILASTER	VERT.
S318	X	18	3-4	X			PILASTER	HORIZ.
S419	X	824	4-10	X			PARAPETS	VERT.
S420	X	824	4-3	X			PARAPETS	VERT.
S521	X	100	32-6				PARAPETS	HORIZ.
S522	X	32	5-0				SLAB AT DRAINS	TRANS.
S523	X	12	8-4	X			PIER DIAPH. AT BOXOUT	
S424	X	16	8-9				SLAB AT EXP. DEVICE BETWN. GRDS.	

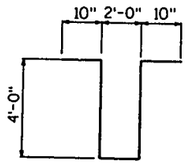
△ SEE SHEET 17 FOR PROPER PLACEMENT



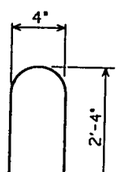
S412



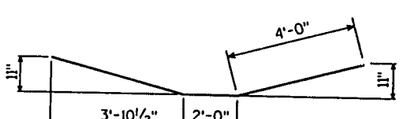
S318



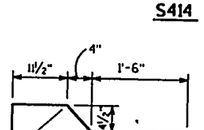
S513



S419



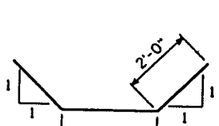
S414



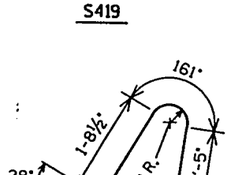
S416



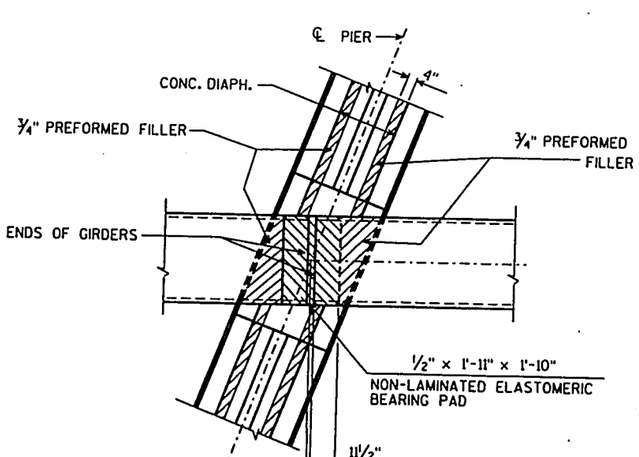
S417



S523

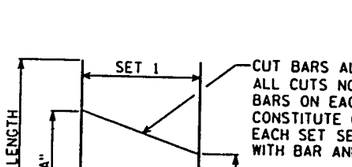


S420



BEARING PAD DETAIL AT PIER

MARK	"A"	"B"	NO. OF BARS/SET	NO. OF EACH SET
S510	40-10	1-9	48	2



CUT BARS ALONG THIS LINE. MAKE ALL CUTS NORMAL TO BAR AXIS. BARS ON EACH SIDE OF CUT CONSTITUTE ONE SET. BUNDLE EACH SET SEPARATELY AND TAG WITH BAR AND SET NUMBER.

BENT BARS IF USED IN CUTTING DIAGRAM SHALL BE BENT AFTER CUTTING.

CUTTING DIAGRAM

NO.	DATE	REVISION	BY

STATE OF WISCONSIN
DEPARTMENT OF TRANSPORTATION
DIVISION OF HIGHWAYS

STRUCTURE B-51-78

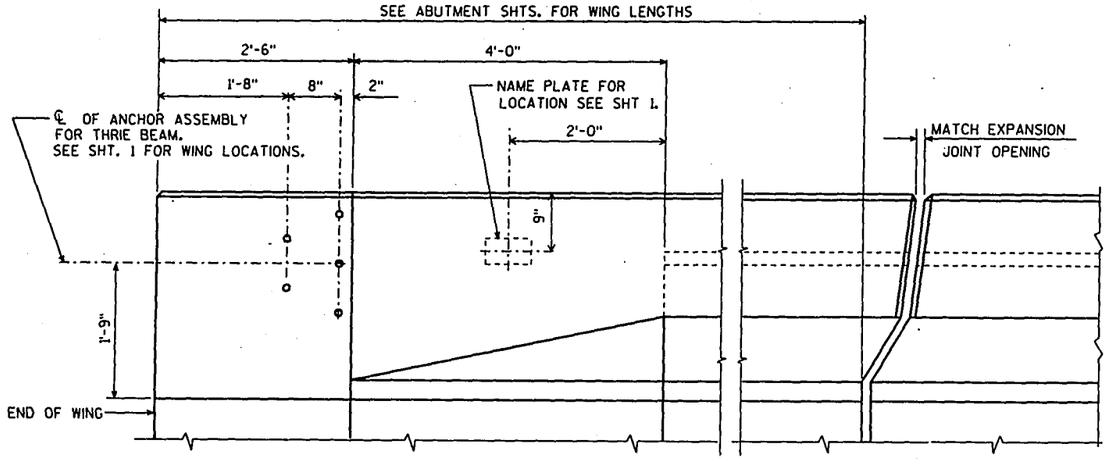
CONST. SPEC. 1989	DRAWN BY RIES	PLANS CK'D. J.C.K.

SUPERSTRUCTURE DETAILS

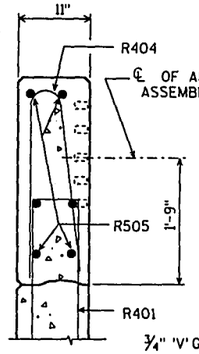
SHEET 15

BR 51 78 78SUPER.DGN

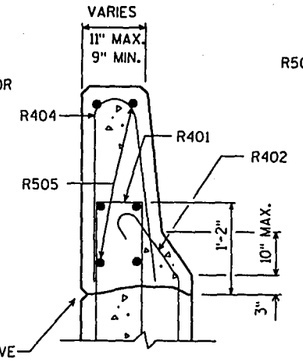
STATE PROJECT NUMBER	SHEET NO.
	9.15



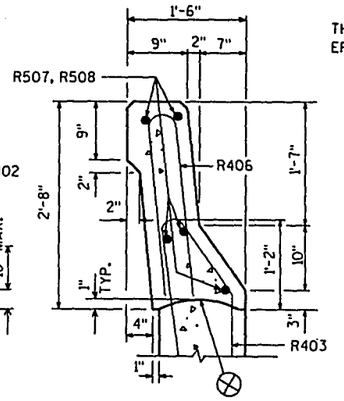
INSIDE ELEVATION



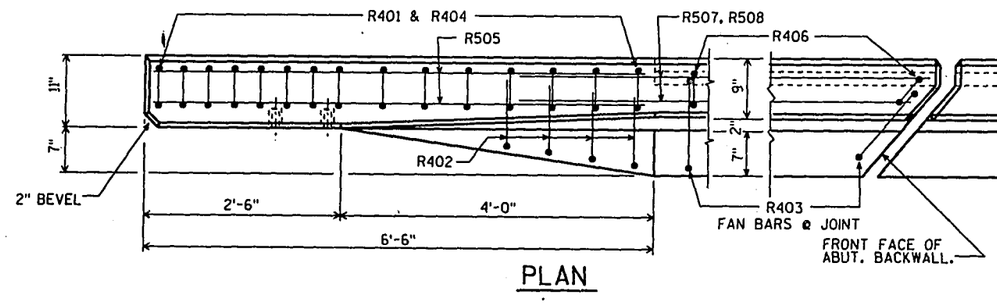
SECTION A



SECTION B

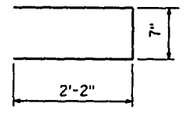


SECTION C

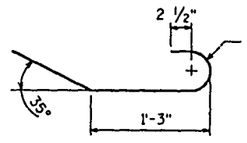


PLAN

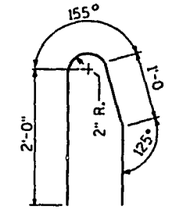
OPTIONAL CONSTRUCTION JOINTS IN THE PARAPETS MAY BE USED. RUN BAR REINF THRU THE JOINT. LAP LONGIT. BARS A MIN. OF 1'-9". MIN. JOINT SPACING OF 80'-0". DEFINE CONST. JOINT WITH A 1" 'V' GROOVE.



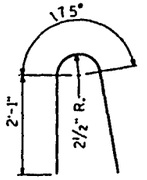
R401



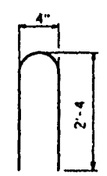
R402



R403



R404



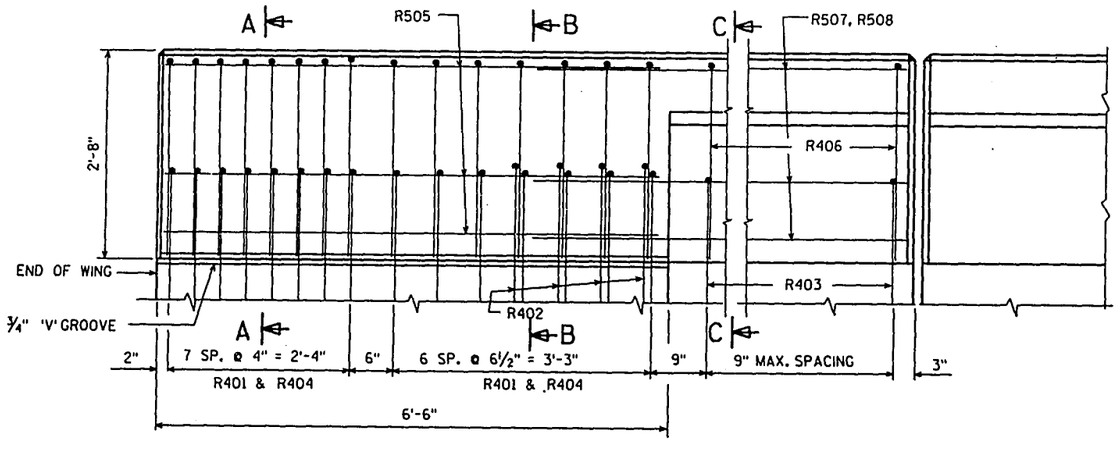
R406

BILL OF BARS

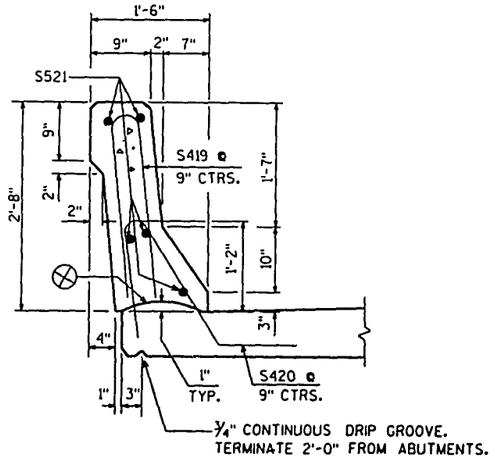
FOR ABUTMENT PARAPETS

THE FIRST DIGIT OF THE BAR MARK SIGNIFIES THE BAR SIZE. EPOXY COAT ALL PARAPET REINF.

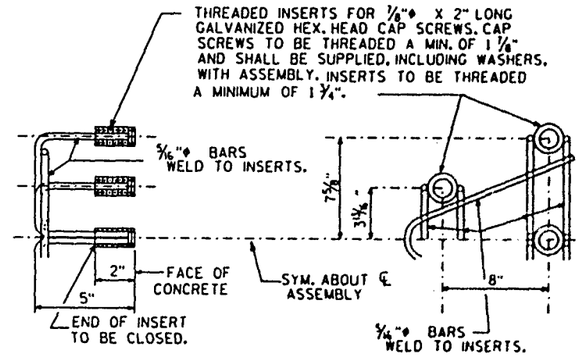
BAR MARK	NO. REQ'D. SOUTH ABUT.	NO. REQ'D. NORTH ABUT.	LENGTH	BENT	LOCATION
R401	30	30	4-9	X	WINGS STIRRUPS
R402	8	8	3-1	X	WINGS
R403	21	21	4-9	X	WINGS STIRRUPS
R404	30	30	4-9	X	WINGS
R505	12	12	6-2		WINGS
R406	21	21	4-10	X	WINGS
R507	5	5	11-6		WINGS 1&3
R508	5	5	8-6		WINGS 2&4



OUTSIDE ELEVATION



SECTION THRU PARAPET ON BRIDGE



DETAIL OF ANCHOR ASSEMBLY

NOTE: HEX. HEAD CAP SCREWS & WASHERS TO BE GALVANIZED IN ACCORDANCE WITH AASHTO M232 CLASS C.

⊗ CONST. JOINT - STRIKE OFF AS SHOWN.

NO.	DATE	REVISION	BY

STATE OF WISCONSIN
DEPARTMENT OF TRANSPORTATION
DIVISION OF HIGHWAYS

STRUCTURE B-51-78

CONST. SPEC.	1989	DRAWN BY	RIES	PLANS C.O.	J.C.K.

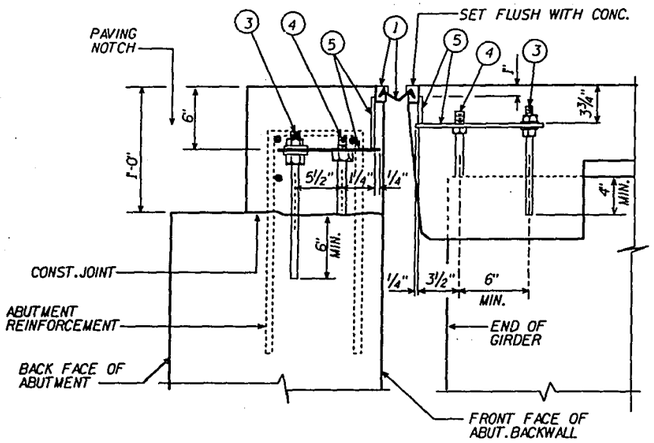
SLOPED FACE PARAPET "B"

SHEET 16

SCALE

BR_B5178PARAB.DGN

STATE PROJECT NUMBER	SHEET NO.
	3.16



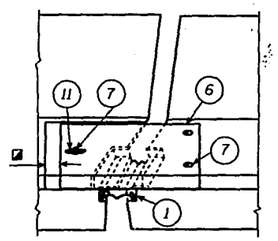
TYPICAL SECTION THRU JOINT

NORMAL TO ℄ SUBSTRUCTURE.

⊕ BLOCK OUT CONCRETE 2' EACH SIDE FOR JOINT OPENING

◪ JOINT OPENING DIM. ALONG SKEW PLUS ½".

'S' EQUALS 5".

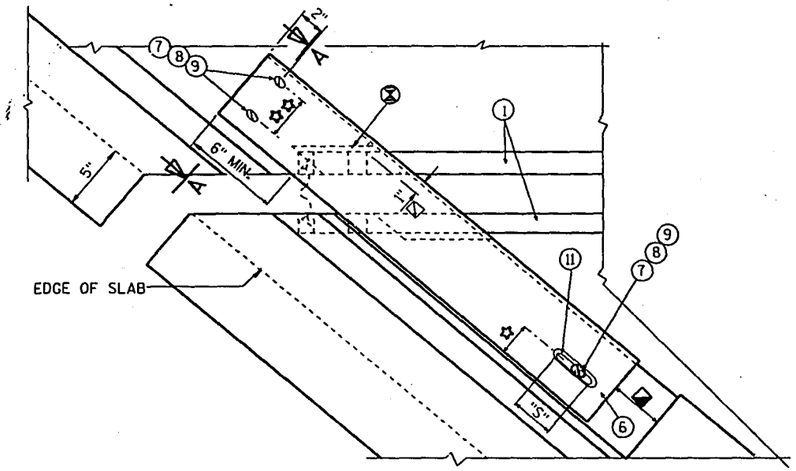


VIEW OF PARAPET PLATES FROM ROADWAY

▲ TEMPERATURE TABLE

TEMP.	JOINT OPENING
90	1⅞"
80	2"
70	2"
60	2⅛"
50	2¼"
40	2¼"
30	2⅜"

SHADED UNDERSIDE DECK TEMPERATURE (F°)



PLAN AT COVER PLATES

LEGEND

1. NEOPRENE STRIP SEAL & STEEL EXTRUSIONS D.S. BROWN SSA2-400A2 LEWIS ENGINEERING W-400L STRUCTURAL ACCESSORIES SA2-400S, WATSON-BOWMAN-ACME COMPANIES A3-400SE. EXTRUSIONS TO BE A.S.T.M. A36.
2. STUDS ⅝"ϕ X 6⅜" LONG AT 6" ALTERNATE CENTERS WELD TO EXTRUSIONS & BEND AS SHOWN AFTER WELDING.
3. ¾" ϕ THREADED ROD WITH 2 NUTS AND WASHERS. FOR PRESTRESSED GIRDERS FIELD SET ON CL OF GIRDER A MINIMUM OF 4" FROM END OF GIRDER. ON ABUTMENT SIDE GROUT THREADED ROD INTO FIELD DRILLED HOLES IN ABUTMENT BACKWALL AS SHOWN.
4. ¾" ϕ THREADED ROD WITH NUT. TACK WELD NUT TO NO. 5.
5. FABRICATE SUPPORT FROM 3" X 1½" BAR AS SHOWN OR EQUIVALENT. ONE PER GIRDER PER SIDE. FIELD OR SHOP WELD TO NO. 1. PROVIDE 1½" HOLE FOR NO. 3 & 1" HOLE FOR NO. 4.
6. PLATE ⅜" X 1'-2" X 2'-0" LONG WITH HOLES FOR #7. BEND AS SHOWN.
7. ¾" X 1½" STAINLESS STEEL FLAT HEAD MACHINE SCREWS. RECESS 1/16" BELOW PLATE SURFACE.
8. ¾" X 4" GALV. HEX HEAD BOLT. BEND 45°.
9. ¾" X 2¼" GALV. THREADED COUPLING.
10. 3" X ½" ANCHOR PLATE WITH ⅝"ϕ ROD. WELD ROD TO ANCHOR PLATE. WELD ANCHOR PL. TO #1 AT 1'-6" CTRS. BETWEEN GIRDERS.
11. 1" X DIMENSION "S" SLOTTED CSK. HOLE FOR #7. SLOT PARALLEL TO DIRECTION OF MOVEMENT.

NOTES

ONE FIELD SPLICE PERMITTED IN STEEL EXTRUSIONS. IF USED, DETAILS SHALL BE SUBMITTED FOR APPROVAL. NO SPLICING PERMITTED IN NEOPRENE STRIP SEAL.

AFTER FABRICATION, BUT BEFORE SHIPMENT, STRAIGHTEN STEEL EXTRUSIONS SUCH THAT THEY SHALL BE FREE FROM WARP, TWIST & SWEEP.

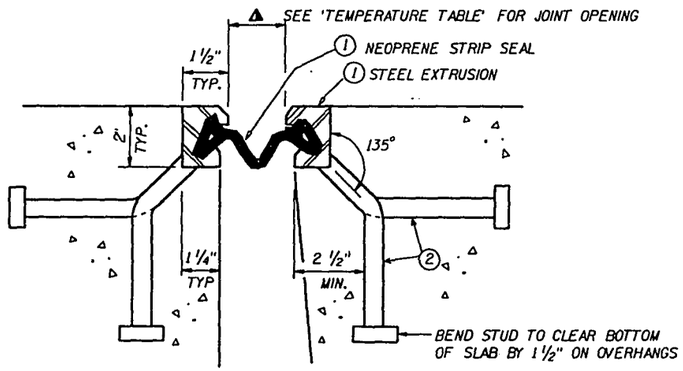
AFTER FABRICATION, SAND BLAST CLEAN STEEL EXTRUSION SURFACES TO SSPC SP. 10. SAND BLAST CLEAN ANCHORAGE COMPONENTS TO SSPC SP. 6. PRIME ALL SURFACES INCLUDING ANCHORAGE COMPONENTS WITH 3 MILS OF ORGANIC ZINC RICH PRIMER.

FABRICATOR SHALL PROVIDE MEANS OF KEEPING COATED EXTRUSIONS CLEAN DURING SHIPMENT AND PRIOR TO APPLYING LUBRICANT ADHESIVE FOR NEOPRENE GLAND INSTALLATION.

MATERIAL FOR #6 & #10 SHALL CONFORM TO ASTM A36. MATERIAL SHALL BE MATERIAL SHALL BE FLAME CUT OR SHEARED. REMOVE ALL SLAG OR SHEARED EDGES BY GRINDING TO A SMOOTH UNIFORM SQUARE SURFACE. PRIOR TO BENDING CHECK PLATES FOR FLATNESS TO WITHIN A TOLERANCE OF 1/16" IN ANY DIRECTION. BEND LINE MUST BE PERPENDICULAR TO PLATE GRAIN. SANDBLAST PLATES AFTER FABRICATION IN ACCORDANCE WITH SSPC SP. #6 IF GALVANIZING OR SSPC SP. #10 IF PAINTING. THE PLATES SHALL BE HOT DIPPED GALVANIZED OR SHOP PRIMED WITH 3 MILS. MINUMIN OF ORGANIC ZINC RICH PRIMER.

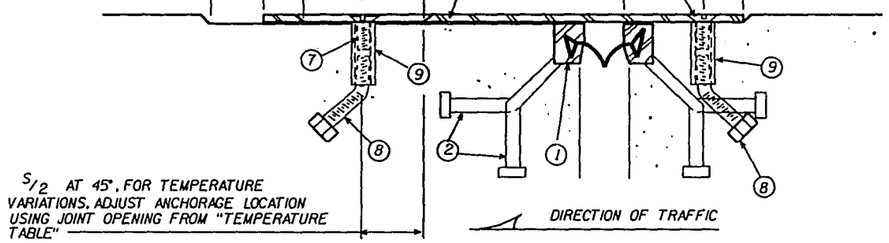
ANCHOR SYSTEM #8 & #9 SHALL CONFORM TO ASTM A307 & SHALL BE GALV. IN ACCORDANCE WITH ASTM A153 CLASS C & D. 1.24 MILS. MIN.

STRIP SEAL EXPANSION JOINT ASSEMBLY, INCLUDING ANCHOR STUDS & HARDWARE WILL BE PAID FOR AT THE LUMP SUM PRICE BID FOR "EXPANSION DEVICE"

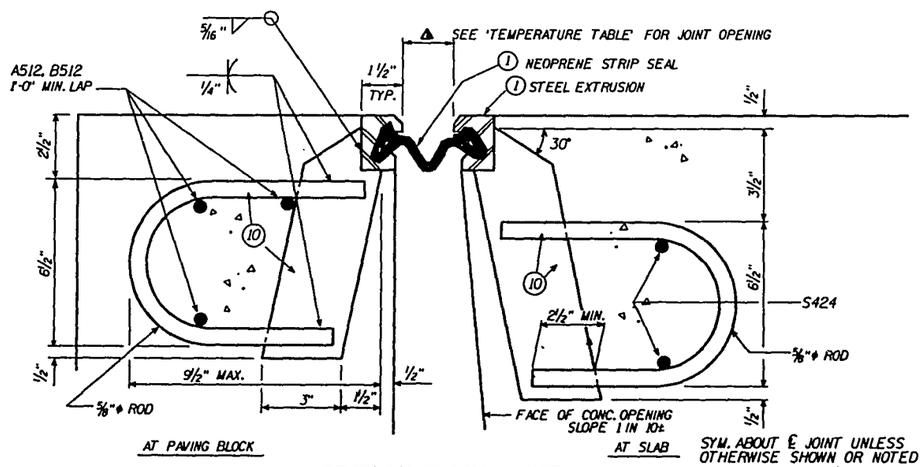


SECTION THRU JOINT

EXTERIOR GIRDER TO EDGE OF SLAB & AT PARAPETS, MEDIANS & SIDEWALKS

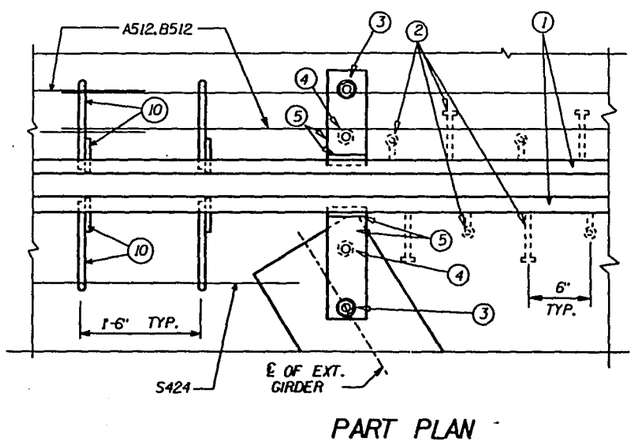


SECTION B-B

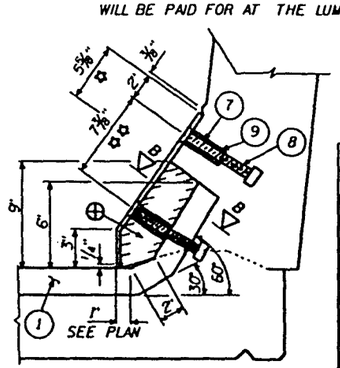


SECTION THRU JOINT

ROADWAY TRAFFIC AREA BETWEEN EXTERIOR GIRDERS.



PART PLAN



SECTION A-A

NO.	DATE	REVISION	BY

STATE OF WISCONSIN
DEPARTMENT OF TRANSPORTATION
DIVISION OF HIGHWAYS

STRUCTURE B-51-78

CONST. SPEC. 1989	DRAWN BY RIES	PLANS CHKD. JCK.

EXPANSION DEVICE

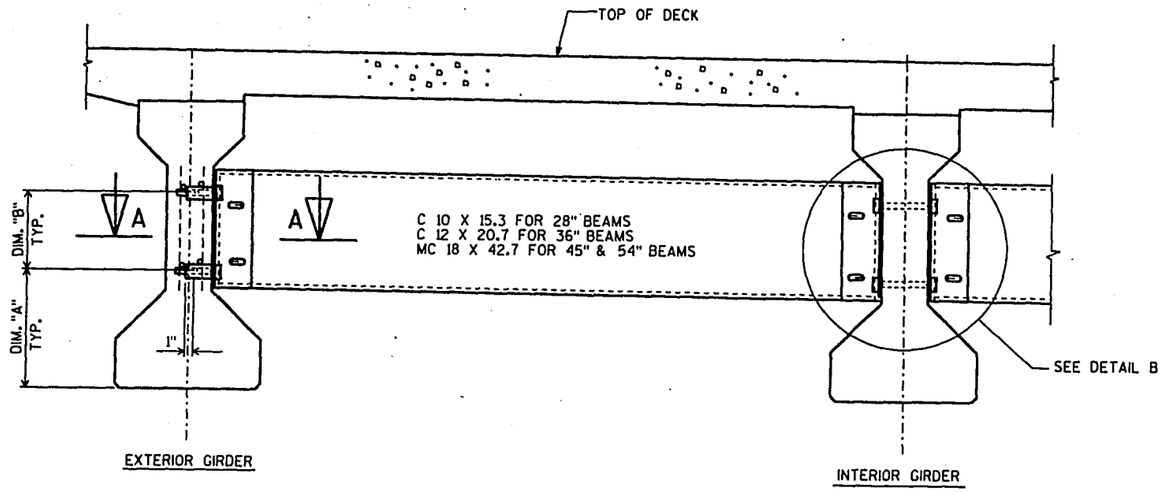
SHEET 17

BR_B5178-78EXPSJT.DGN

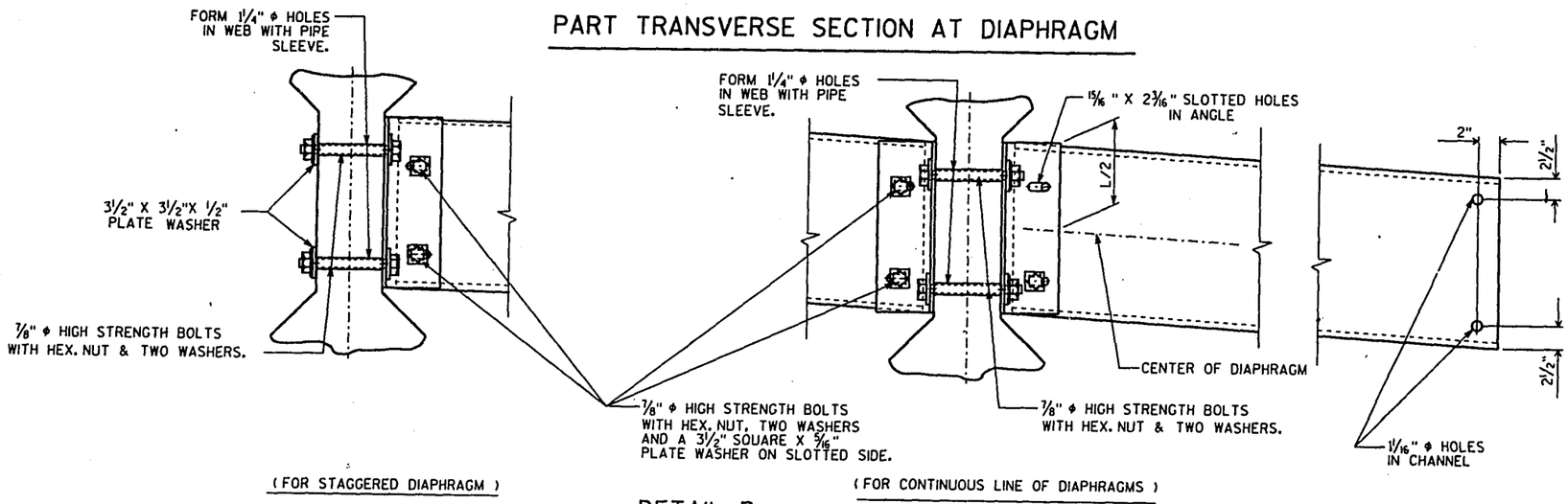
STATE PROJECT NUMBER	SHEET NO.
	17

TABLE

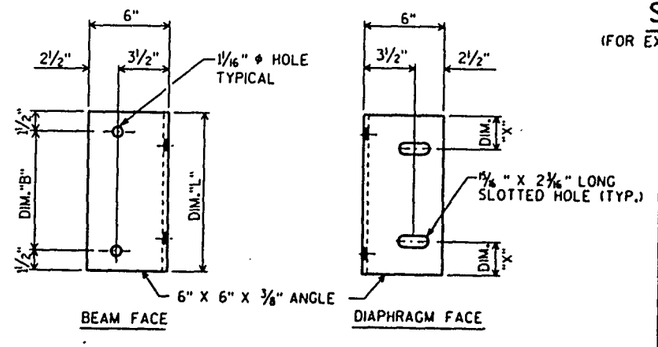
GIRDER HEIGHT	DIM. "A"	DIM. "B"	DIM. "L"	DIM. "X"
28"	1'-0	7"	10"	2½"
36"	1'-2	11"	1'-2	3½"
45"	1'-4½	1'-3	1'-6	2½"
54"	1'-7	1'-7	1'-10	4½"



PART TRANSVERSE SECTION AT DIAPHRAGM



DETAIL B



DIAPHRAGM SUPPORT

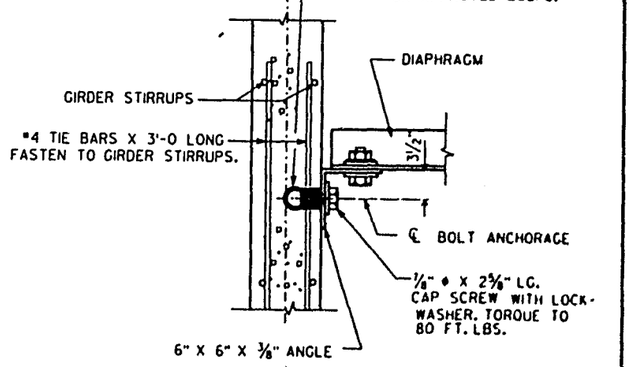
NOTES

ALL DIAPHRAGM MATERIAL NOT EMBEDDED IN THE CONCRETE GIRDER SHALL BE PAID FOR AT THE UNIT PRICE BID FOR "STEEL DIAPHRAGM".

EACH DIAPHRAGM BETWEEN GIRDERS SHALL CONSTITUTE ONE UNIT.

ALL DIAPHRAGM STRUCTURAL STEEL SHALL BE ASTM A709 GRADE 36. ALL BOLTS, NUTS AND WASHERS SHALL BE ASTM A325 TYPE 1.

ALL DIAPHRAGM STRUCTURAL STEEL SHOWN SHALL BE HOT-DIPPED GALVANIZED. ALL BOLTS, NUTS AND WASHERS SHALL BE HOT-DIPPED GALVANIZED IN ACCORDANCE WITH ASTM A153 CLASS C. GALVANIZED NUTS SHALL BE TAPPED OVERSIZE IN ACCORDANCE WITH THE REQUIREMENTS OF ASTM A563 AND SHALL MEET THE REQUIREMENTS OF SUPPLEMENTARY REQUIREMENT S1 OF ASTM A563. LUBRICANT AND TEST FOR COATED NUTS.



SECT. A-A
(FOR EXTERIOR ATTACHMENT)

NO.	DATE	REVISION	BY

STATE OF WISCONSIN
DEPARTMENT OF TRANSPORTATION
DIVISION OF HIGHWAYS

STRUCTURE B-51-78

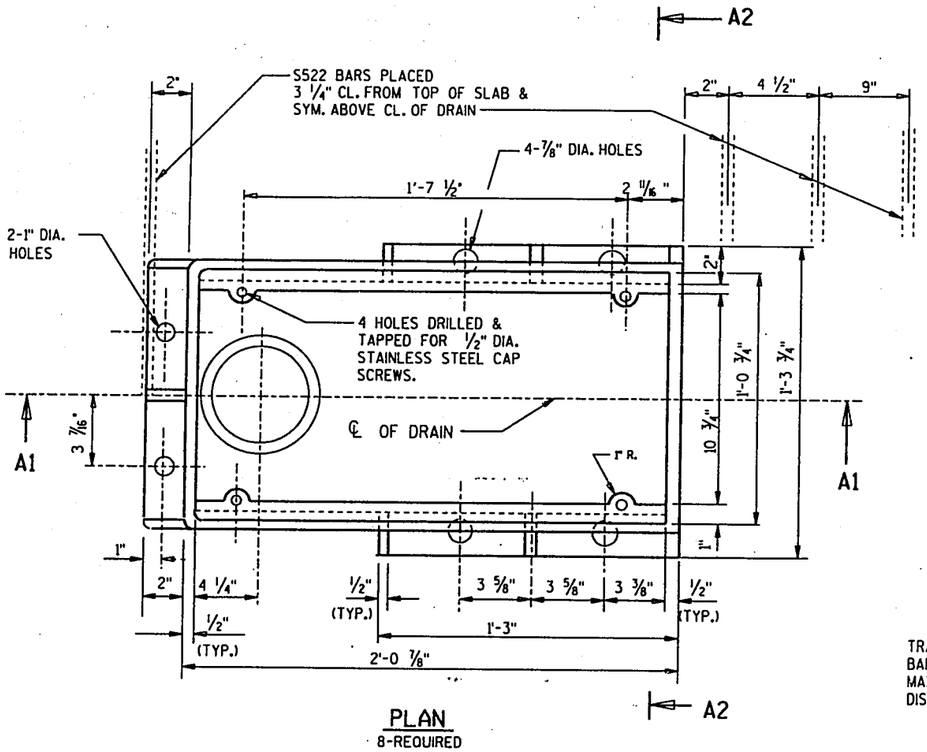
CONST. SPEC. 1989	DRAWN BY RIES	PLANS C+D. JCK

STEEL DIAPHRAGM

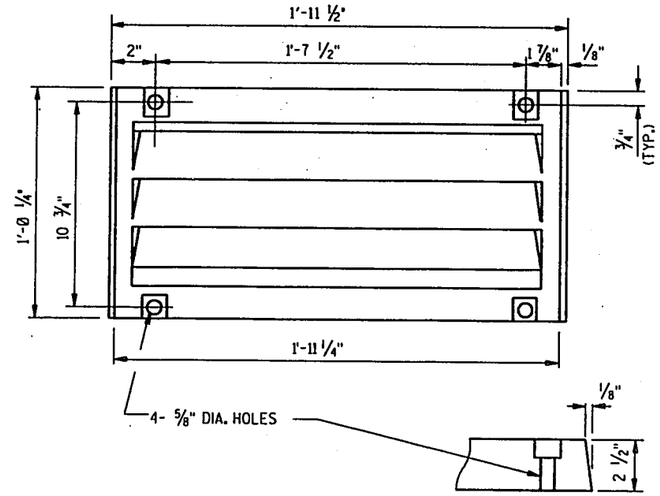
SHEET 18

BR_BS178_TBS1DIA_DGN

STATE PROJECT NUMBER	SHEET NO.
	8.15



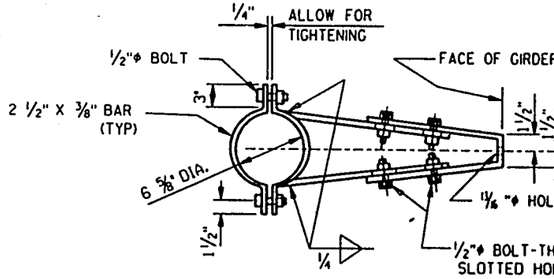
PLAN
8-REQUIRED



GRATE CASTING DETAIL

ATTACH GRATE TO FRAME FOR SHIPMENT

TRANS. AND LONGIT. SLAB BAR REINF. TO BE CUT A MAX. 1" CL. FROM DRAIN DISPLACE BARS WHERE POSSIBLE



BRACKET DETAIL

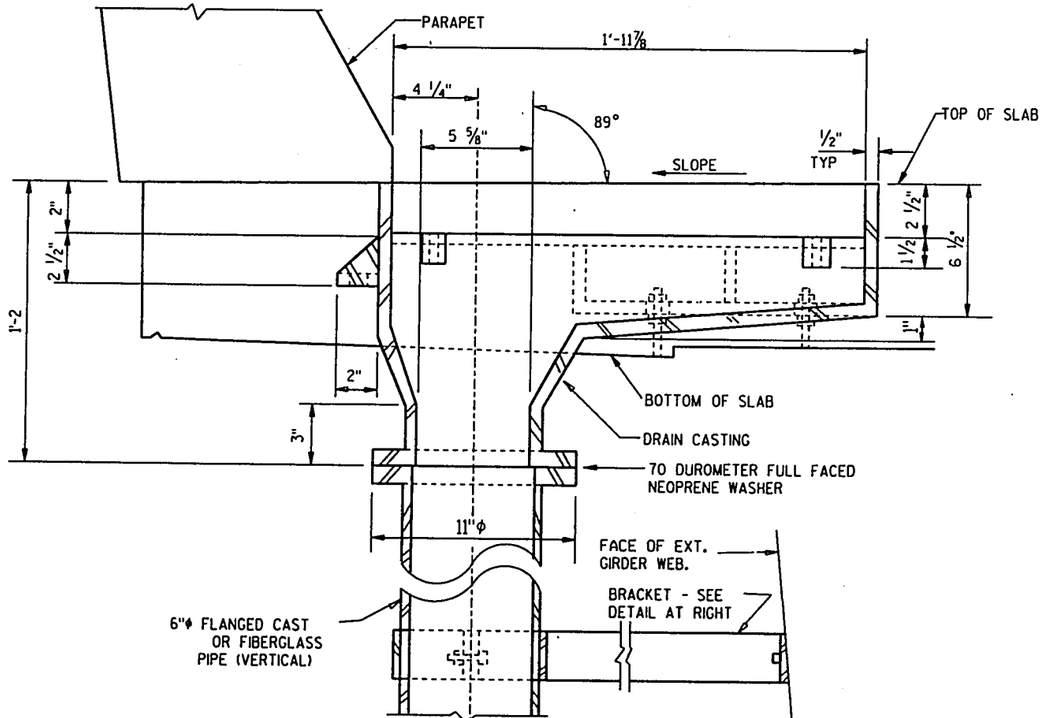
GENERAL NOTES

ALL MATERIAL FOR TYPE "GC" CASTING, EXCLUDING GRATE HOLD DOWN SCREWS, SHALL BE GRAY IRON CONFORMING TO A.S.T.M. A48, CLASS 30. (APPROX. WEIGHT = 225#)

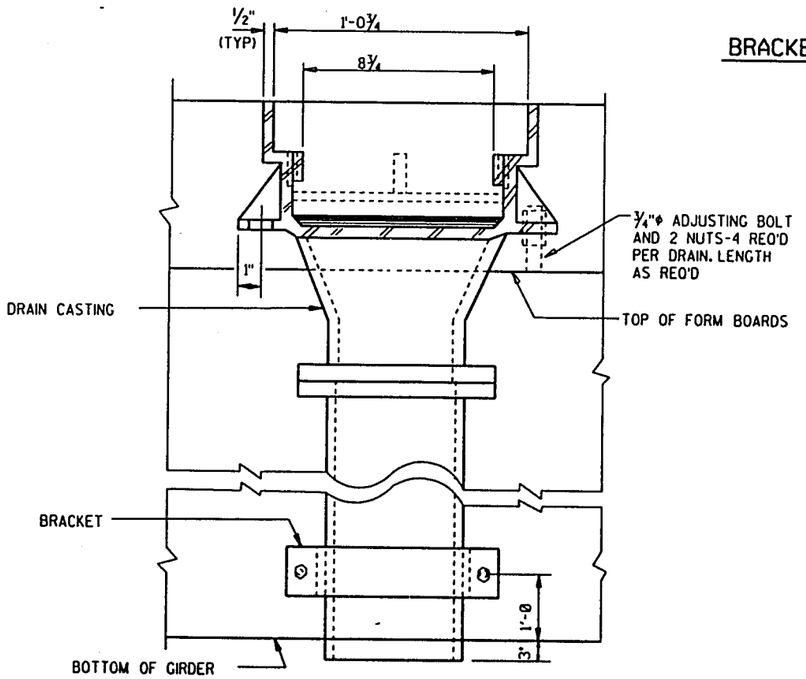
MATERIAL FOR BRACKETS SHALL CONFORM TO A.S.T.M. A36.

THE CONTRACTOR MAY PROPOSE AN ALTERNATE TYPE OF BRACKET. THE PROPOSED ALTERNATE DETAILS SHALL BE SUBMITTED AND SUBJECT TO THE APPROVAL OF THE ENGINEER.

FLANGED 6" DIA. DOWNSPOUTS SHALL BE EITHER CAST MATERIAL OR FIBERGLASS CONFORMING TO A.S.T.M. D2996, GRADE 1, CLASS A.



SECTION A1



SECTION A2

NO.	DATE	REVISION	BY

STATE OF WISCONSIN
DEPARTMENT OF TRANSPORTATION
DIVISION OF HIGHWAYS

STRUCTURE B-51-78

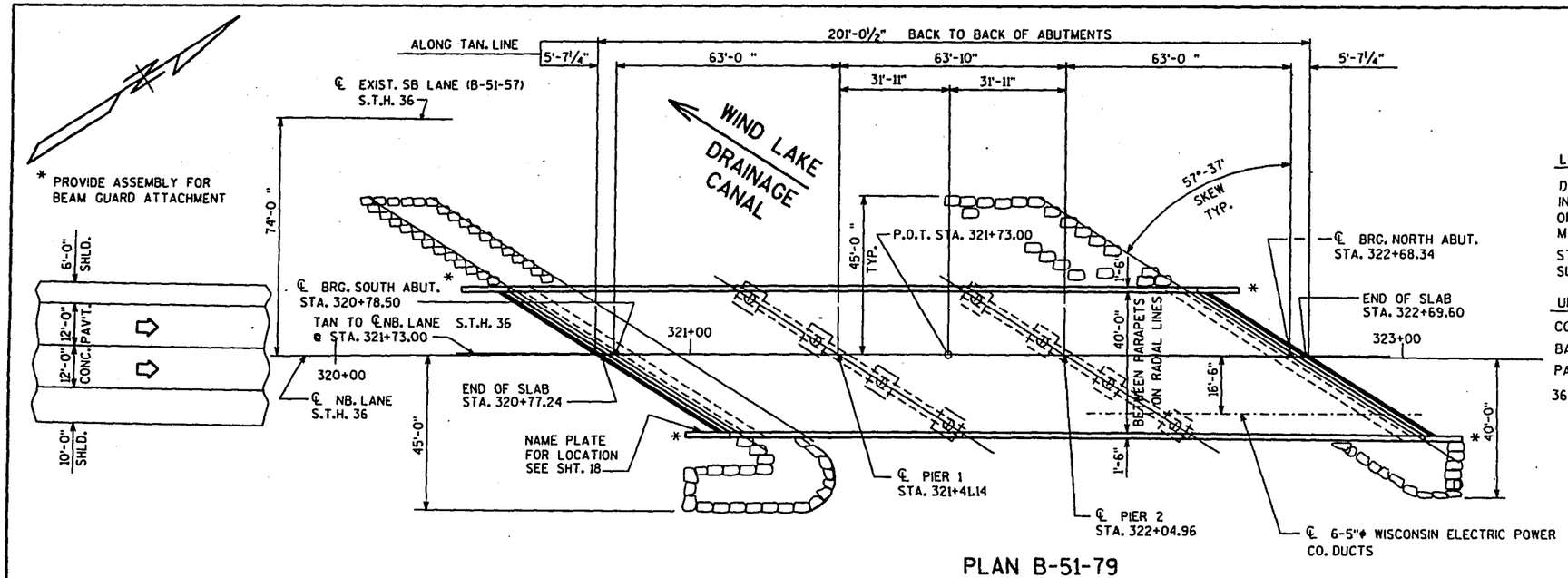
CONST. SPEC. 1989	DRAWN BY RNES	PLANS C&D. & E.W.

FLOOR DRAIN TYPE 'GC'

SHEET 19

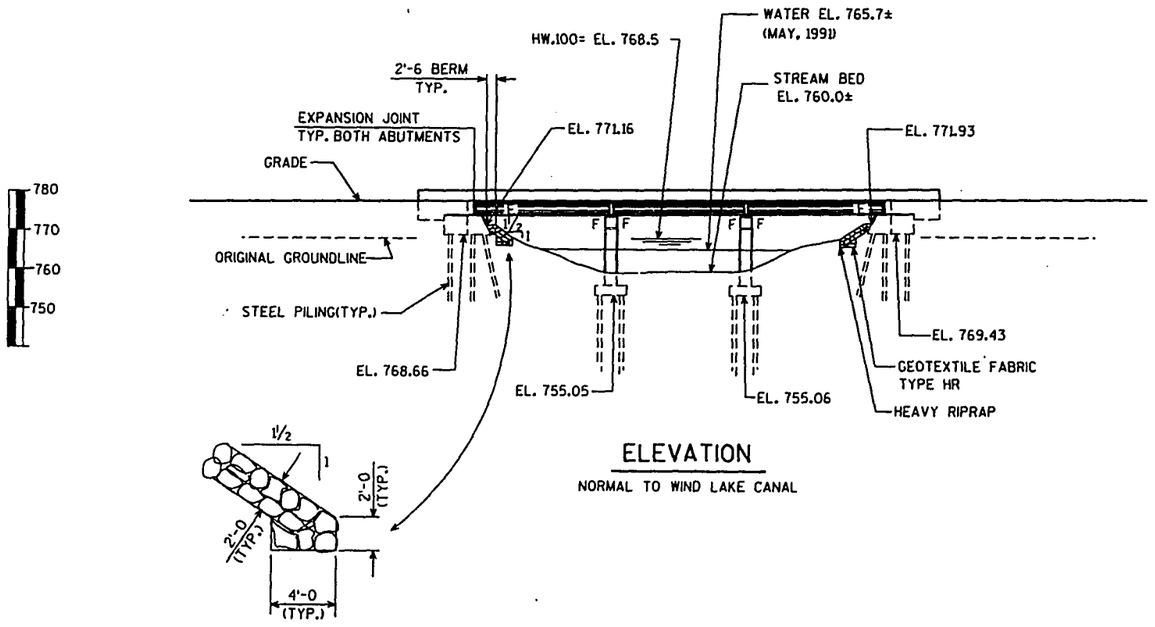
TYPE CODE = X081

STATE PROJECT NUMBER	SHEET NO.
	3.19



PLAN B-51-79

3 SPAN 36" PRESTRESSED GIRDERS



ELEVATION

NORMAL TO WIND LAKE CANAL

DESIGN DATA

LIVE LOAD:

DESIGN RATING; HS-20
INVENTORY RATING; HS-21
OPERATIONAL RATING; HS-42
MAXIMUM STANDARD PERMIT VEHICLE LOAD = 250 KIPS.

STRUCTURE IS DESIGNED FOR A FUTURE WEARING SURFACE OF 20 POUNDS PER SQUARE FOOT.

ULTIMATE DESIGN STRESSES:

CONCRETE MASONRY SLAB — f'c = 4,000 P.S.I. ALL OTHER — f'c = 3,500 P.S.I.
BAR STEEL REINFORCEMENT, GRADE 60 — fy = 60,000 P.S.I.

PARAPETS AND ALL SLAB STEEL SHALL BE EPOXY COATED.

36" PRESTRESSED GIRDERS, CONCRETE MASONRY STRANDS-½" ϕ WITH ULTIMATE TENSILE STRENGTH OF 270,000 P.S.I.

FOUNDATION DATA

PLACE SOUTH ABUTMENT ON HP 10 X 42 STEEL PILING DRIVEN TO 25 TONS/PILE MIN. BRG.
EST. LENGTH=45'-0".

PLACE PIERS 1&2 ON HP 10 X 42 STEEL PILING DRIVEN TO 55 TONS/PILE MIN. BRG.
EST. LENGTH=35'-0".

PLACE NORTH ABUTMENT ON HP 10 X 42 STEEL PILING DRIVEN TO 25 TONS/PILE MIN. BRG.
EST. LENGTH=60'-0".

HYDRAULIC DATA

100 YEAR FREQUENCY

Q_{100} =1900 C.F.S.
VEL. =3.8 F.P.S.
HW.= EL. 768.5
WATERWAY AREA= 500 SQ. FT.
DRAINAGE AREA= 89 SQ. MI.
ROAD OVERTOPPING = NA
SCOUR CRITICAL CODE = 5

CURVE DATA

P.I. = STA. 326+22.10
Δ = 20°-00'-21"
D = 0°-20'
T = 3031.74'
L = 6001.75'
R = 17,158.46'
S.E. = 0.02 %

TRAFFIC VOLUME

S.T.H. 36
A.D.T.=12,450 (2015)
R.D.S.=60 M.P.H.

LIST OF DRAWINGS

1. GENERAL PLAN
2. NOTES AND QUANTITIES
3. SUBSURFACE EXPLORATION
4. SOUTH ABUTMENT
5. SOUTH ABUTMENT
6. NORTH ABUTMENT
7. NORTH ABUTMENT
8. ABUTMENT DETAILS
9. PIER 1
10. PIER 2
11. 36" PRESTRESSED GIRDER DETAILS
12. SUPERSTRUCTURE
13. SUPERSTRUCTURE DETAILS
14. SUPERSTRUCTURE DETAILS
15. PRESTRESSED GIRDER BEARINGS
16. STEEL DIAPHRAGM
17. EXPANSION DEVICE
18. SLOPED FACE PARAPET 'B'

BRIDGE OFFICE CONTACT - R.L. REESE (608)266-8488
K.A. BAHLER (608)266-8490

NO.	DATE	REVISION	BY

STATE OF WISCONSIN
DEPARTMENT OF TRANSPORTATION
DIVISION OF HIGHWAYS

STRUCTURE B-51-79

S.T.H. 36 OVER WIND LAKE DRAINAGE CANAL

COUNTY RACINE	TOWN/CITY/VILLAGE ROCHESTER
DESIGN SPEC. AASHTO 1992	LOAD HS-20 CONST. SPEC. 1989
DESIGNED BY V.T. DESIGN CK'D. DK	DRAWN BY DHB PLANS CK'D. R.O.R.

APPROVED Gerald M. Anderson STATE BRIDGE ENGINEER 12-22-93 DATE

GENERAL PLAN

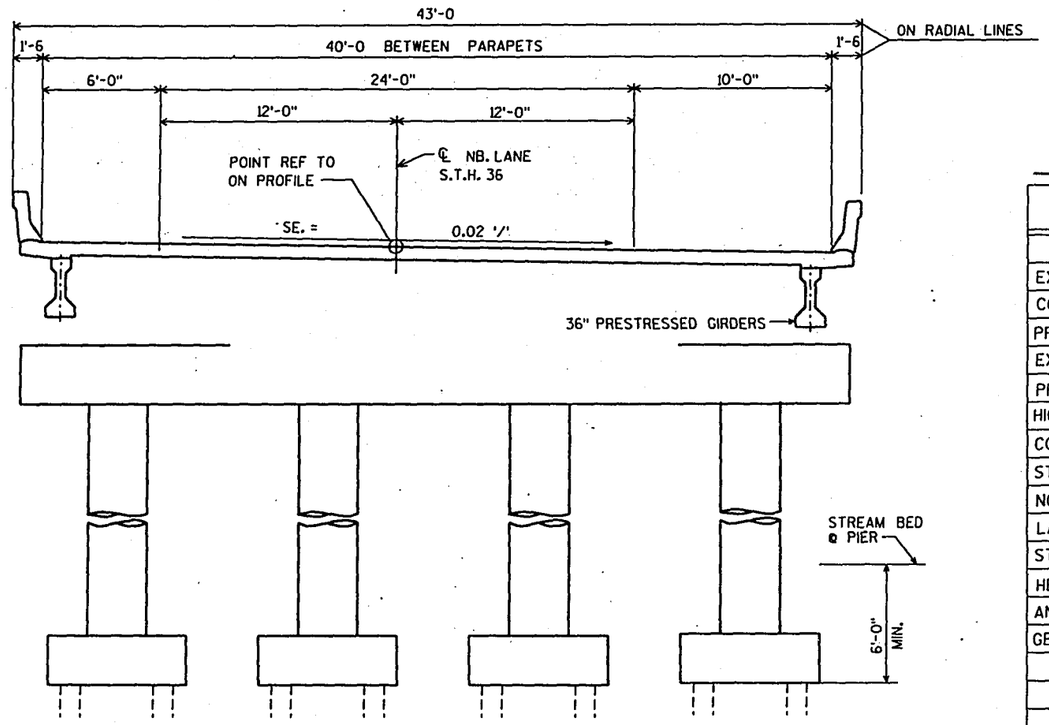
SHEET 1 OF 18

DATE: JUNE '93

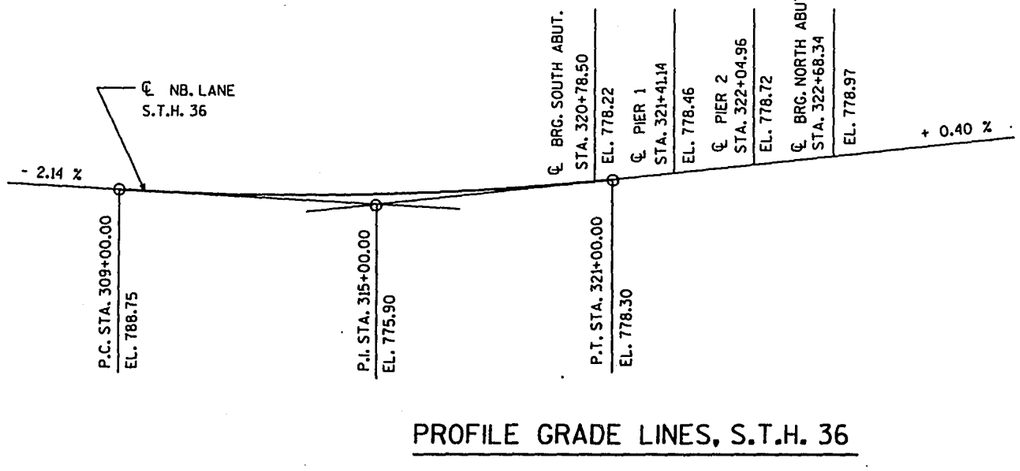
BRB5179:GP.DGN

I.D. 2240-07-008

STATE PROJECT NUMBER	SHEET NO.



CROSS SECTION THRU ROADWAY LOOKING NORTH



PROFILE GRADE LINES, S.T.H. 36

TOTAL ESTIMATED QUANTITIES

BID ITEMS	UNIT	SUPER.	SOUTH ABUT.	PIER 1	PIER 2	NORTH ABUT.	TOTALS
EXCAVATION FOR STRUCTURES, BRIDGES, B-51-79	L.S.	——	——	——	——	——	1
CONCRETE MASONRY, BRIDGES	C.Y.	281	110	63	63	110	627
PROTECTIVE SURFACE TREATMENT	GAL.	60	——	——	——	——	60
EXPANSION DEVICE, STRUCTURE B-51-79	L.S.	——	——	——	——	——	1
PRESTRESSED GIRDER, I TYPE, 36-INCH	L.F.	1,145	——	——	——	——	1,145
HIGH-STRENGTH BAR STEEL REINFORCEMENT, BRIDGES	LB.	——	4,290	8,290	8,320	4,300	25,200
COATED HIGH-STRENGTH BAR STEEL REINFORCEMENT, BRIDGES	LB.	58,200	1,200	——	——	1,200	60,600
STEEL DIAPHRAGM, STRUCTURE B-51-79	EACH	15	——	——	——	——	15
NON-LAMINATED ELASTOMERIC BEARING PADS	EACH	12	——	——	——	——	12
LAMINATED ELASTOMERIC BEARING PADS	EACH	12	——	——	——	——	12
STEEL PILING, DELIVERED AND DRIVEN, HP 10-INCH 42 POUND	L.F.	——	990	560	560	1,380	3,490
HEAVY RIPRAP	C.Y.	——	200	——	——	220	420
ANCHOR ASSEMBLIES FOR STEEL PLATE BEAM GUARD	EACH	——	2	——	——	2	4
GEOTEXTILE FABRIC, TYPE HR	S.Y.	——	320	——	——	280	600
							1
NON-BID ITEMS							
POLYVINYL CHLORIDE WATERSTOP	L.F.	——	75	——	——	76	151
FILLER	SIZE	——	——	——	——	——	½" & ¼"

GENERAL NOTES

DRAWINGS SHALL NOT BE SCALED.

BAR STEEL REINFORCEMENT SHALL BE EMBEDDED 2" CLEAR UNLESS OTHERWISE SHOWN OR NOTED.

ELASTOMERIC BEARING PADS NEED NOT BE INDIVIDUALLY MOLDED PROVIDED THE CUT EDGES ARE SMOOTH & TRUE.

THE STREAMBED SHALL BE USED AS THE UPPER LIMITS OF EXCAVATION AT THE PIERS.

THE SLOPE OF FILL IN FRONT OF THE ABUTMENTS SHALL BE COVERED WITH HEAVY RIPRAP TO THE EXTENT SHOWN ON SHT. 1 & IN THE ABUTMENT DETAILS.

SPECIAL GRANULAR BACKFILL REQUIRED AT ABUTMENTS. SEE SHEET 8.

NO.	DATE	REVISION	BY

STATE OF WISCONSIN
DEPARTMENT OF TRANSPORTATION
DIVISION OF HIGHWAYS

STRUCTURE B-51-79

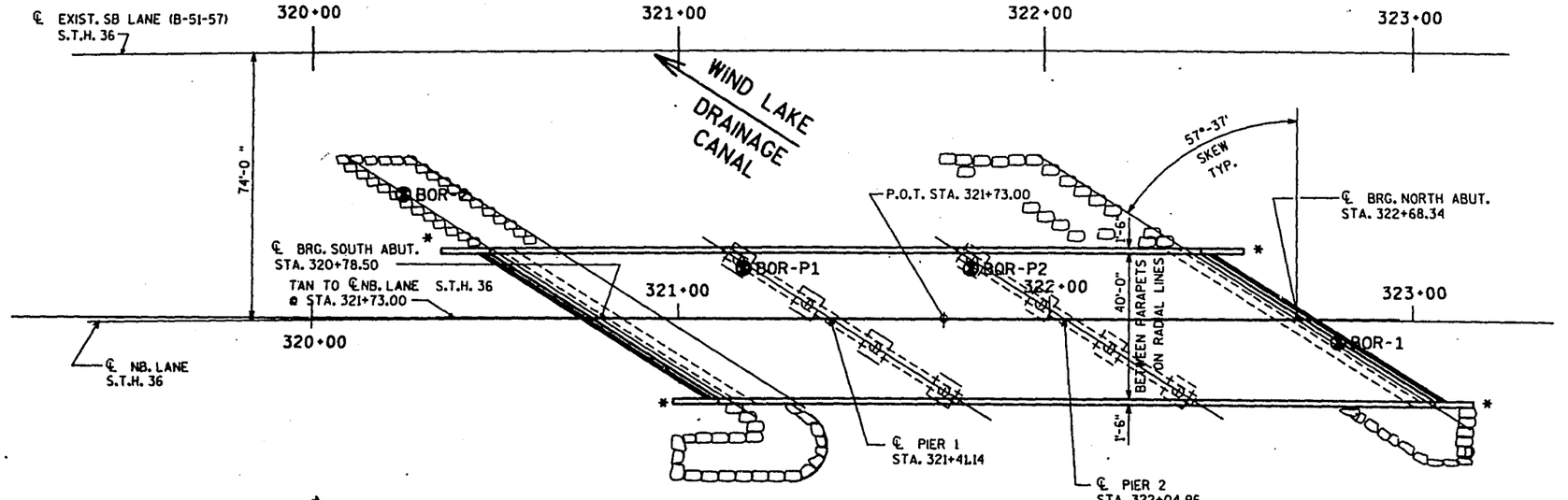
CONST. SPEC.	DRAWN BY	PLANS C.O.
1989	DHB	

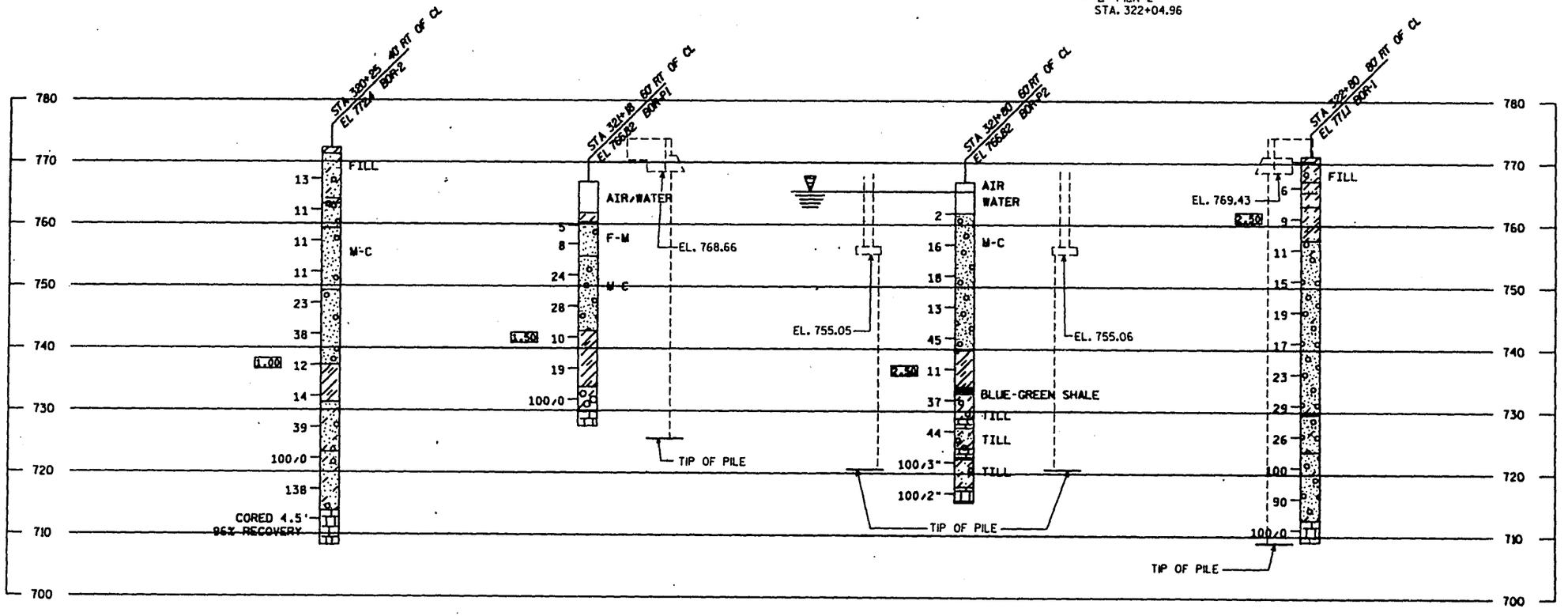
NOTES AND QUANTITIES

SHEET 2

BR 85179:GP.DGN

STH 36 over Wind Lake drainage canal. Burlington - CTH G, Racine Co.





STATE PROJECT NUMBER	SHEET NO.
	8.21

ABBREVIATIONS

F—Fine M—Medium C—Coarse
Ws—Weathered So—Sound

MATERIAL SYMBOLS

Topsoil, Sand, Gravel, Silt, Peat, Clay, Sandstone, Limestone, Igneous Rock

LEGEND OF PROBING

95/6=95 Blows for 6" Penetration
Probing taken with a 350# wt. Falling 18" on a 2" O.D. Point.

Probing No.
Sta.
Elevation
7 Average Blows Per Foot
Refusal 95/6

LEGEND OF BORING

Boring No.
Sta.
Elev.
Unconfined Strength → 7.7
Blows Per Ft. Using 140# Wt. Falling 30"
Wash Sample
Shelby Tube — S.T.
Ground Water Elevation
No Ground Water Observed Above This Elevation
Sandy Gravel
F.
Boulders or Cobbles
Sand
Silty Clay
So
Limestone

Unless otherwise specified, the blows per foot at the locations indicated are based on driving a O.D. wt. 4" I.D. split spoon sampler with a 140# hammer having a free fall of 30". The blow count is taken in undisturbed soil immediately below a cased or open hole eliminating side friction on the drive pipe.

SUBSURFACE EXPLORATION FOR FOUNDATION DESIGN AND BIDDERS INFORMATION

To obtain relative data concerning the character of material in and upon which the foundation might be built, borings and/or soundings were made at points approximately as indicated on this drawing. The data presented hereon represents the findings of the subsurface explorations made. However, because the depths investigated are limited and the area of the borings and/or soundings is very small in relation to the entire area, the Division of Highways does not warrant conditions below the depths investigated or that the classification of material encountered in these investigations is necessarily typical of the entire site.

NO.	DATE	REVISION	BY

STATE OF WISCONSIN
DEPARTMENT OF TRANSPORTATION
DIVISION OF HIGHWAYS

STRUCTURE B-51-79

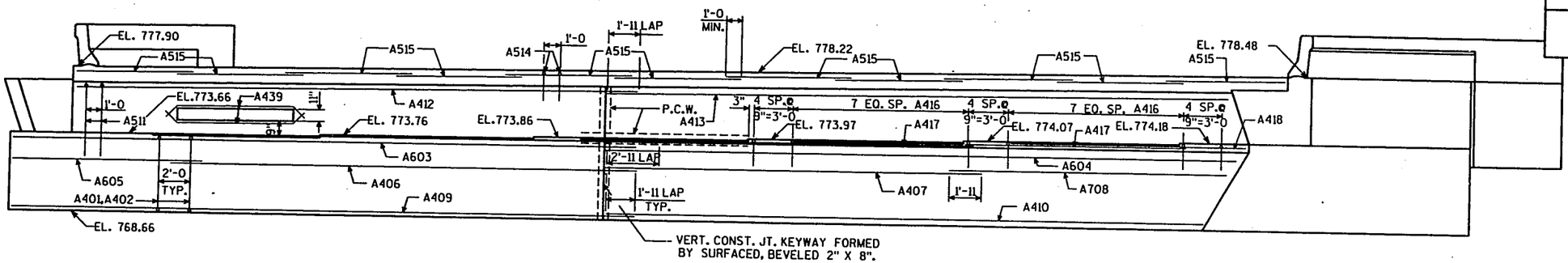
CONST. SPEC.	DRAWN BY	PLANS CKD.
1989	JAR/DMB	KDK

SUBSURFACE EXPLORATION

SHEET 3

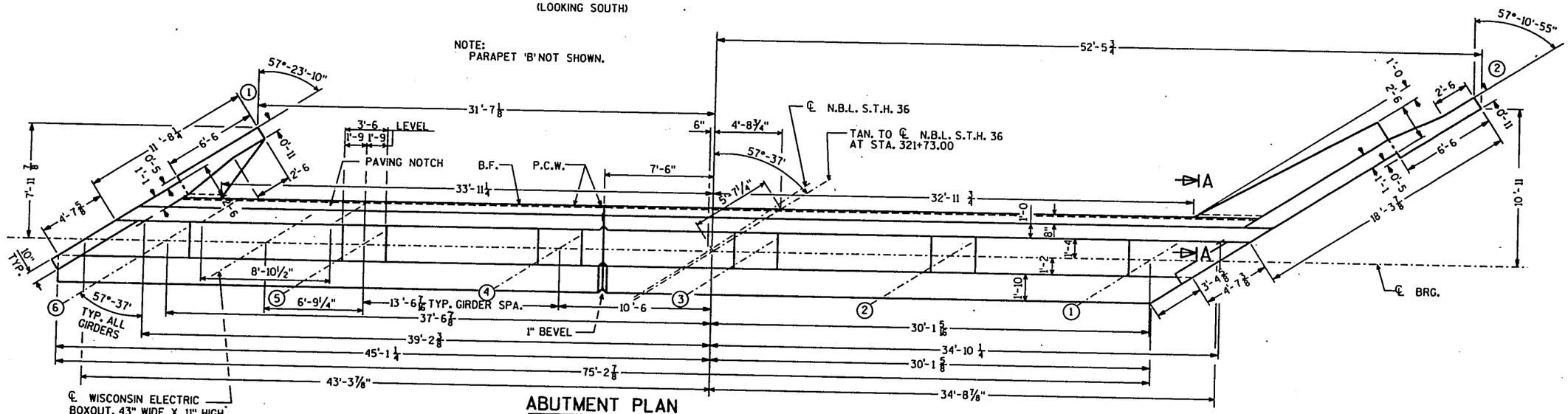
BR BSITE.PYSOIL.SLOCH

STATE PROJECT NUMBER	SHEET NO.
	8.22



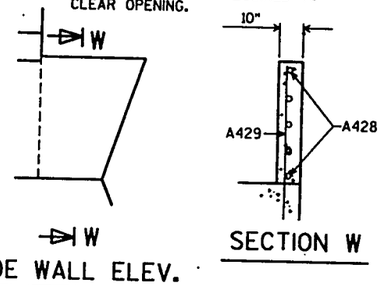
ELEVATION
(LOOKING SOUTH)

NOTE:
SPACE A401 & A402 BARS TO MISS PILING.



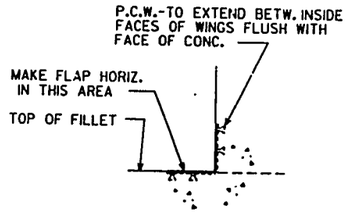
ABUTMENT PLAN

℄ WISCONSIN ELECTRIC BOXOUT. 43" WIDE X 11" HIGH. DISPLACE BARS AS REQUIRED TO CLEAR OPENING.

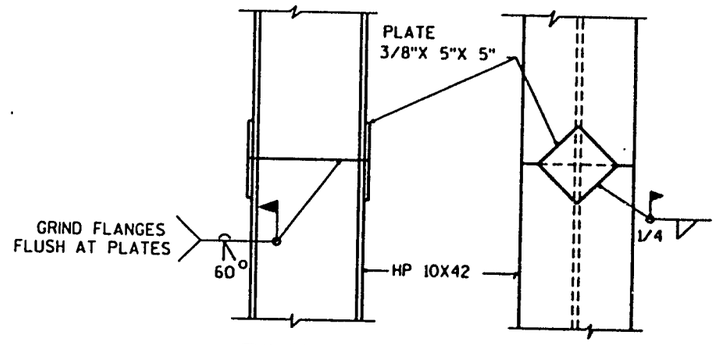


SIDE WALL ELEV.

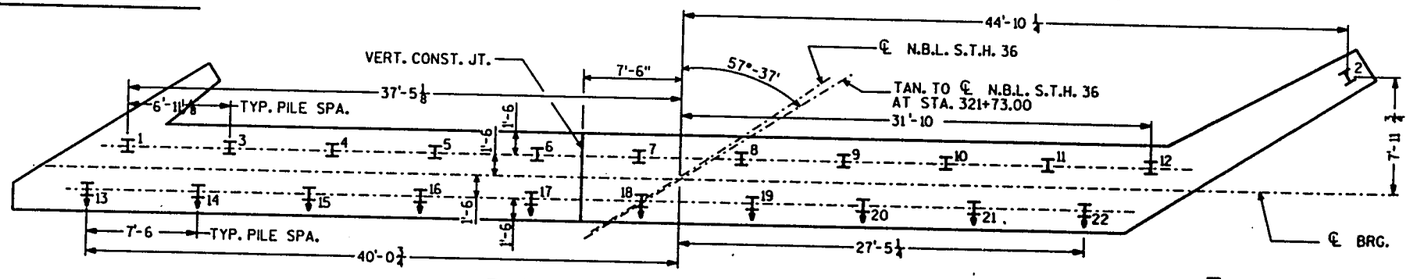
SECTION W



SECTION A



PILE SPLICE DETAIL



PILE PLAN

INDICATES BATTERED PILE. BATTER 3"/FT. IN DIRECTION OF ARROW.

NOTE:
FOR 'POLYVINYL CHLORIDE WATERSTOP' DETAIL SEE SHEET 6.

NO.	DATE	REVISION	BY

STATE OF WISCONSIN
DEPARTMENT OF TRANSPORTATION
DIVISION OF HIGHWAYS

STRUCTURE B-51-79

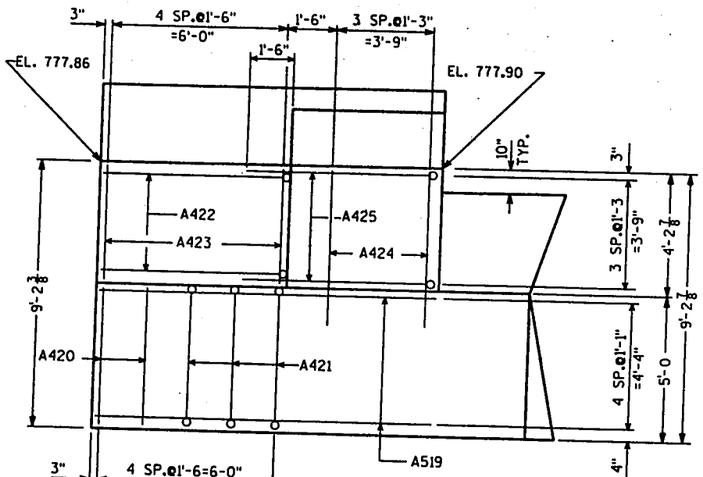
CONST. SPEC.	1989	DRAWN BY	DMB	PLANS CHK.	KOK

SOUTH ABUTMENT

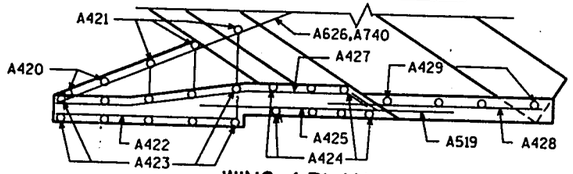
SHEET 4

BR B51179SOUTH.DGN

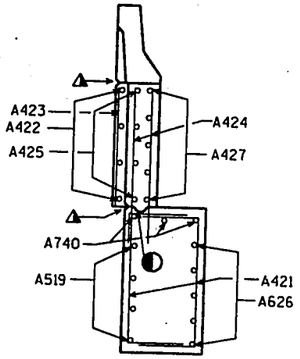
STATE PROJECT NUMBER	SHEET NO.



WING 1 ELEVATION (SHOWING F.F. REINF.)



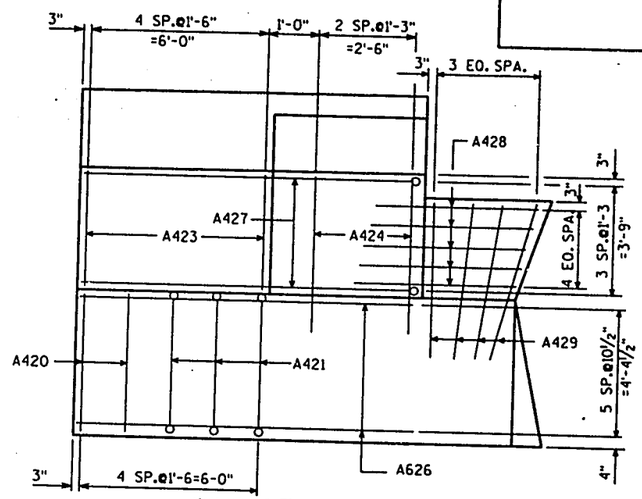
WING 1 PLAN



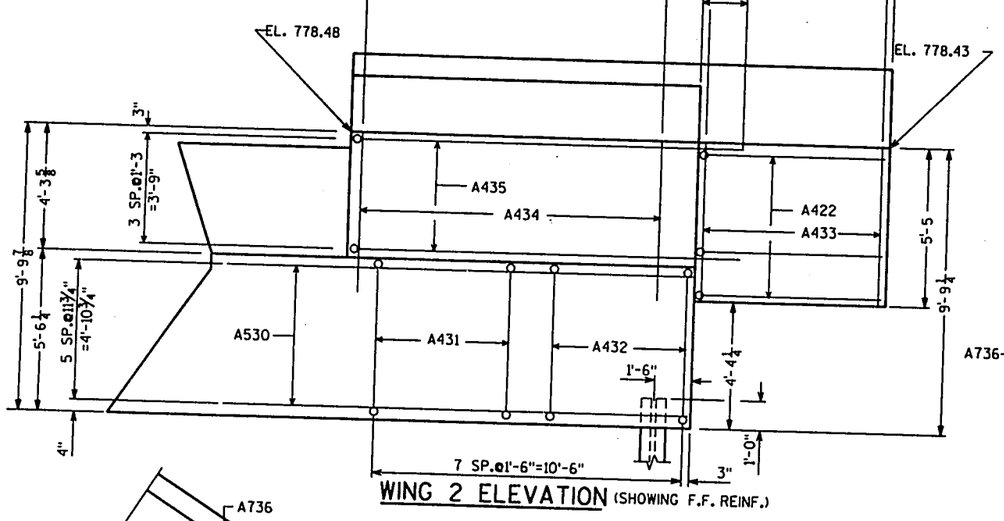
WING 1 SECTION

△ ¾" 'V' GROOVE AT F.F. WINGWALL. 'V' GROOVE NOT REQ'D. IF JOINT IS NOT USED.

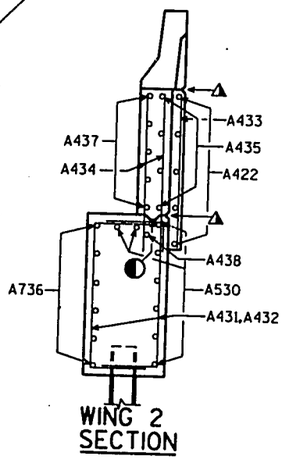
◐ OPT. CONST. JOINT-FORMED BY SURFACED, BEVELED 2" X 6" KEYWAY.



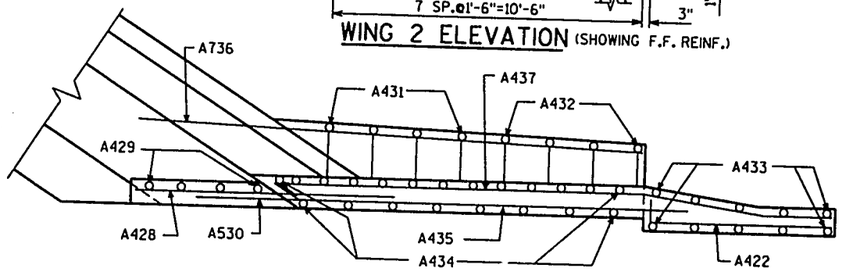
WING 1 ELEVATION (SHOWING B.F. REINF.)



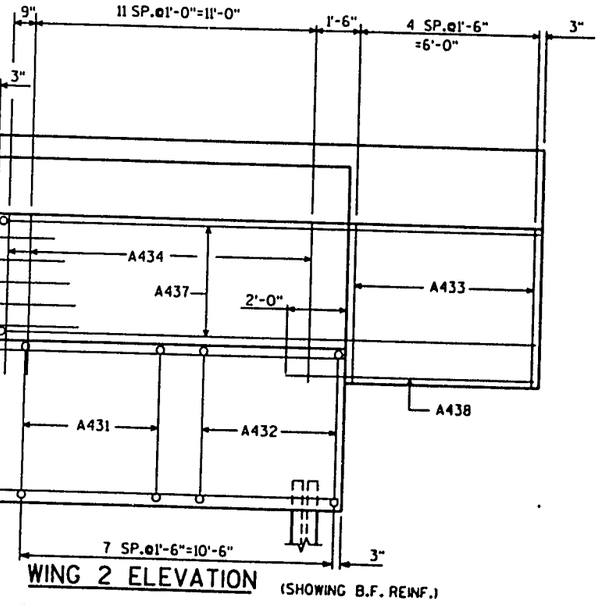
WING 2 ELEVATION (SHOWING F.F. REINF.)



WING 2 SECTION



WING 2 PLAN



WING 2 ELEVATION (SHOWING B.F. REINF.)

NO.	DATE	REVISION	BY

STATE OF WISCONSIN
DEPARTMENT OF TRANSPORTATION
DIVISION OF HIGHWAYS

STRUCTURE B-51-79

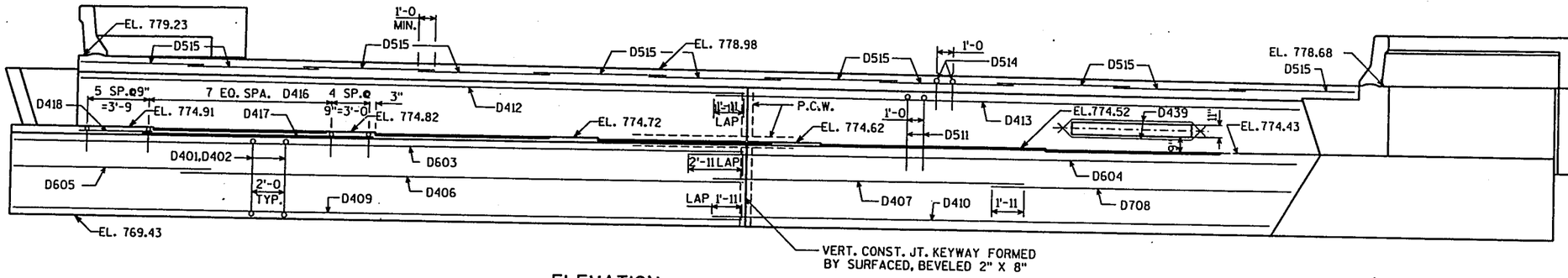
CONST. SPEC.	1989	DRAWN BY	DHB	PLANS CHKD.	KOK

SOUTH ABUTMENT

SHEET 5

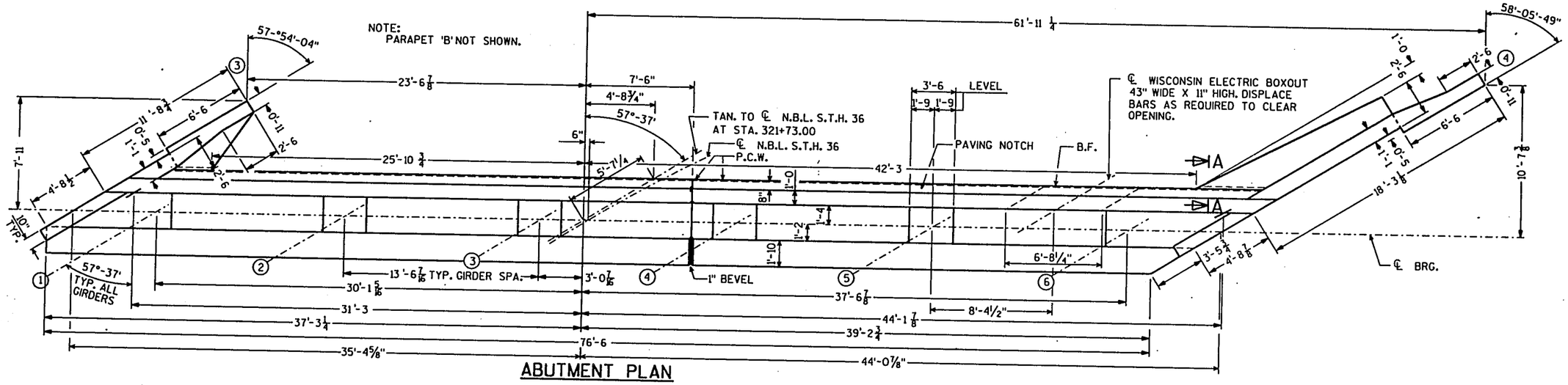
BR B5179:SOUTH.DGN

STATE PROJECT NUMBER	SHEET NO.

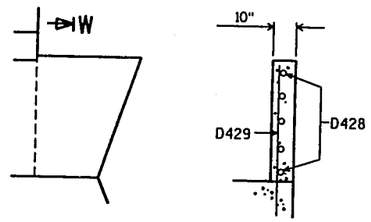


ELEVATION
(LOOKING NORTH)

NOTE:
SPACE D401 & D402 BARS TO MISS PILING.

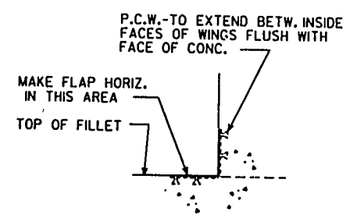


ABUTMENT PLAN

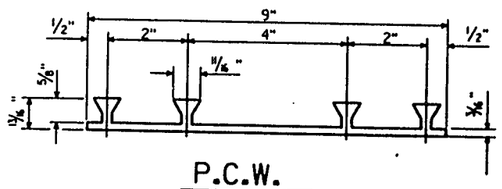


SIDE WALL ELEV.

SECTION W

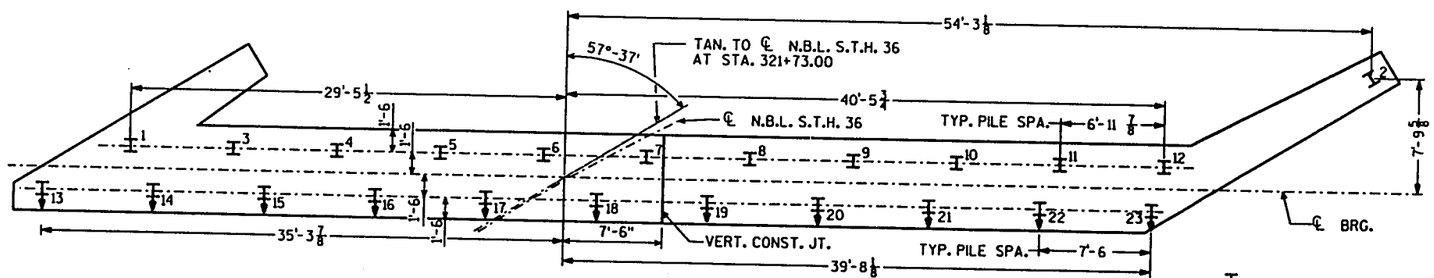


SECTION A

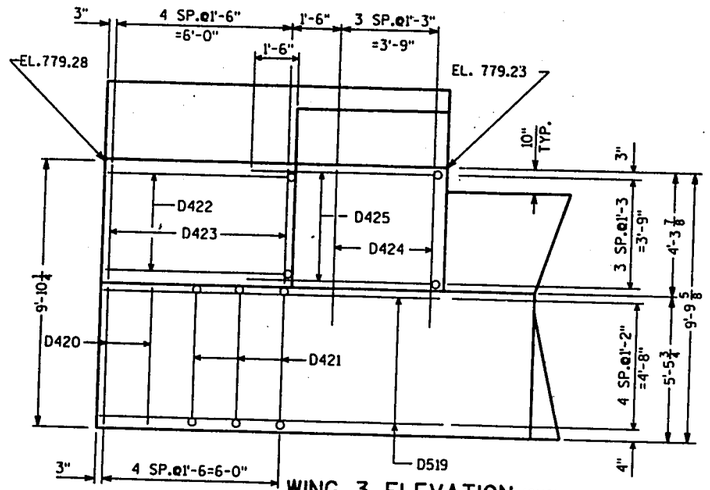


P.C.W.
(POLYVINYL CHLORIDE WATERSTOP)

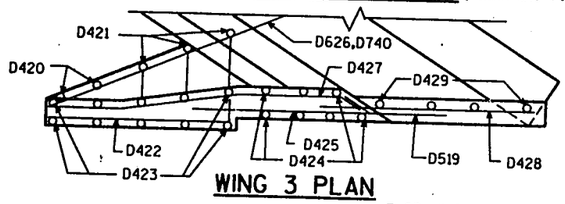
P.C.W. SHALL BE BUTT SPLICED AT ALL INTERSECTIONS BY USING A HEATED SPLICING IRON. HOLD P.C.W. FLUSH WITH CONCRETE. SEAL ALL VERT. ENDS OF P.C.W. WITH NON-STAINING NON-BITUMINOUS JOINT SEALER. P.C.W. SHALL BE FASTENED TO THE FORMS BY NAILING OUTSIDE OF THE OUTSIDE TAB.


54'-3 1/8
57°-37'
TAN. TO ℄ N.B.L. S.T.H. 36 AT STA. 321+73.00
29'-5 1/2
40'-5 3/4
℄ N.B.L. S.T.H. 36
TYP. PILE SPA.
6'-11 7/8
1'-6
1'-6
1'-6

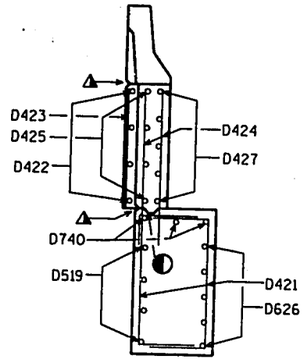
STATE PROJECT NUMBER	SHEET NO.



WING 3 ELEVATION (SHOWING F.F. REINF.)



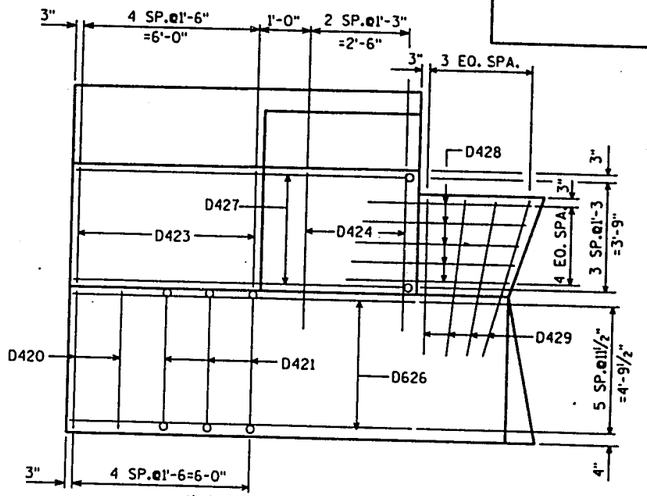
WING 3 PLAN



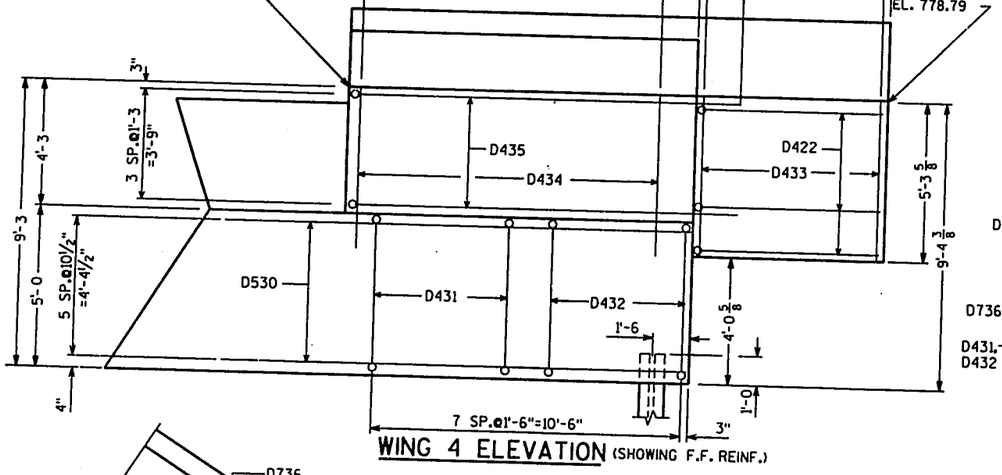
WING 3 SECTION

▲ 3/4" 'V' GROOVE AT F.F. WINGWALL. 'V' GROOVE NOT REQ'D. IF JOINT IS NOT USED.

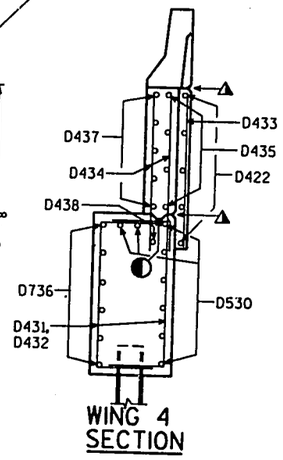
◐ OPT. CONST. JOINT-FORMED BY SURFACED, BEVELED 2" X 6" KEYWAY.



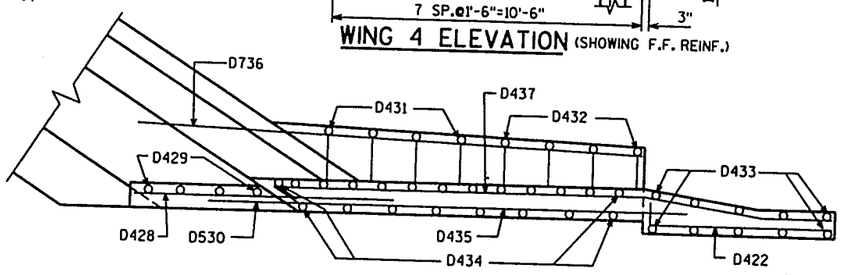
WING 3 ELEVATION (SHOWING B.F. REINF.)



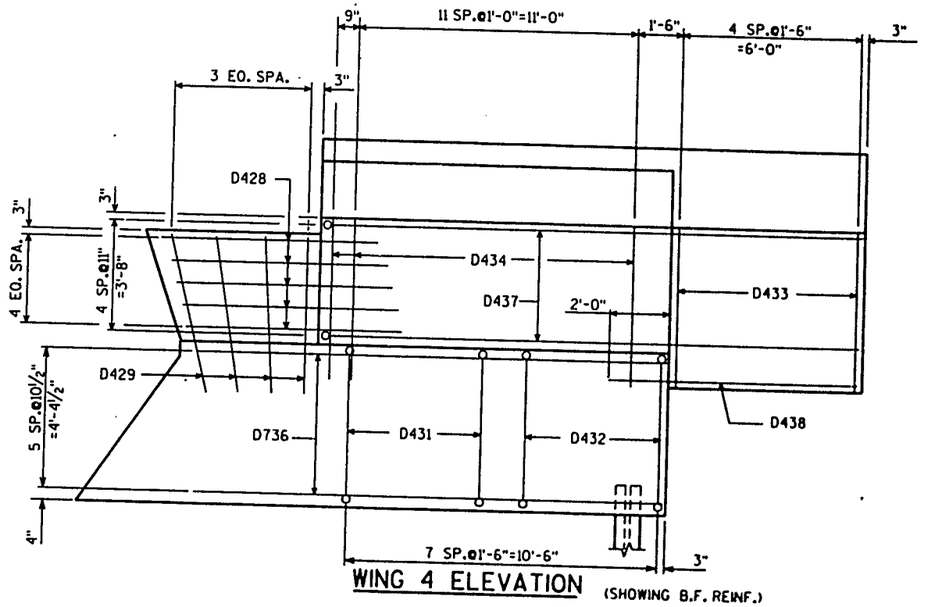
WING 4 ELEVATION (SHOWING F.F. REINF.)



WING 4 SECTION



WING 4 PLAN



WING 4 ELEVATION (SHOWING B.F. REINF.)

NO.	DATE	REVISION	BY

STATE OF WISCONSIN
DEPARTMENT OF TRANSPORTATION
DIVISION OF HIGHWAYS

STRUCTURE B-51-79

CONST. SPEC. 1989	DRAWN BY DHB	PLANS CHKD. KOK

NORTH ABUTMENT

SHEET 7

BR B5179:NORTH.DGN

STATE PROJECT NUMBER	SHEET NO.
	9.1..

BILL OF BARS SOUTH ABUTMENT

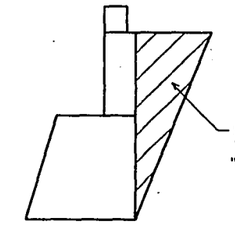
NOTE: THE FIRST OR FIRST TWO DIGITS OF THE BAR MARK SIGNIFIES THE BAR SIZE.

BAR MARK	COAT	NO. REQ'D.	LENGTH	BENT	CUT. DIAG.	BUN-DLE	LOCATION
A401		39	13-11	X			BODY
A402		39	7-5	X			BODY
A603		3	40-7				BODY
A604		3	37-4				BODY
A605		5	12-0				BODY-WING 1
A406		7	22-10				BODY
A407		7	28-9				BODY
A708		7	20-0				BODY-WING 2
A409		7	37-7				BODY
A410		7	37-4				BODY
A511		77	10-4	X			BACKWALL
A412		6	35-7				BACKWALL
A413		6	44-0				BACKWALL
A514	X	77	4-8	X			PAVING NOTCH
A515	X	33	8-0				PAVING NOTCH
A416		27	5-1	X			BODY
A417		4	14-5				BODY
A418		2	3-9				BODY
A519		4	8-7				WING 1-F.F.-HORIZ.
A420		4	4-7				WING 1-F.F. & B.F.-VERT.
A421		6	7-7	X			WING 1-F.F.&B.F.
A422		9	6-5	X			WINGS
A423		10	5-4				WING 1-F.F. & B.F.-VERT.
A424		7	5-4				WING 1-F.F. & B.F.-VERT.
A425		4	7-1	X			WING 1-F.F.-HORIZ.
A626		5	10-0				WING 1-B.F.-HORIZ.
A427		5	10-3	X			WING 1-B.F.-HORIZ.
A428		10	6-6				WINGS-SIDEWALL-HORIZ.
A429		8	5-0				WINGS-SIDEWALL-VERT.
A530		8	15-9				WING 2-F.F.-HORIZ.
A431		8	9-5	X			WING 2-F.F. & B.F.
A432		8	8-11	X			WING 2-F.F. & B.F.
A433		10	5-0				WING 2-F.F. & B.F.-VERT.
A434		21	5-4				WING 2-F.F. & B.F.-VERT.
A435		4	13-10	X			WING 2-F.F.-HORIZ.
A736		6	18-0				WING 2-B.F.-HORIZ.
A437		5	20-3	X			WING 2-B.F.-HORIZ.
A438		1	8-4				WING 2-B.F.-HORIZ.
A439		4	8-4	X			AT UTILITY BLOCKOUT
A740		3	10-0				WING 1

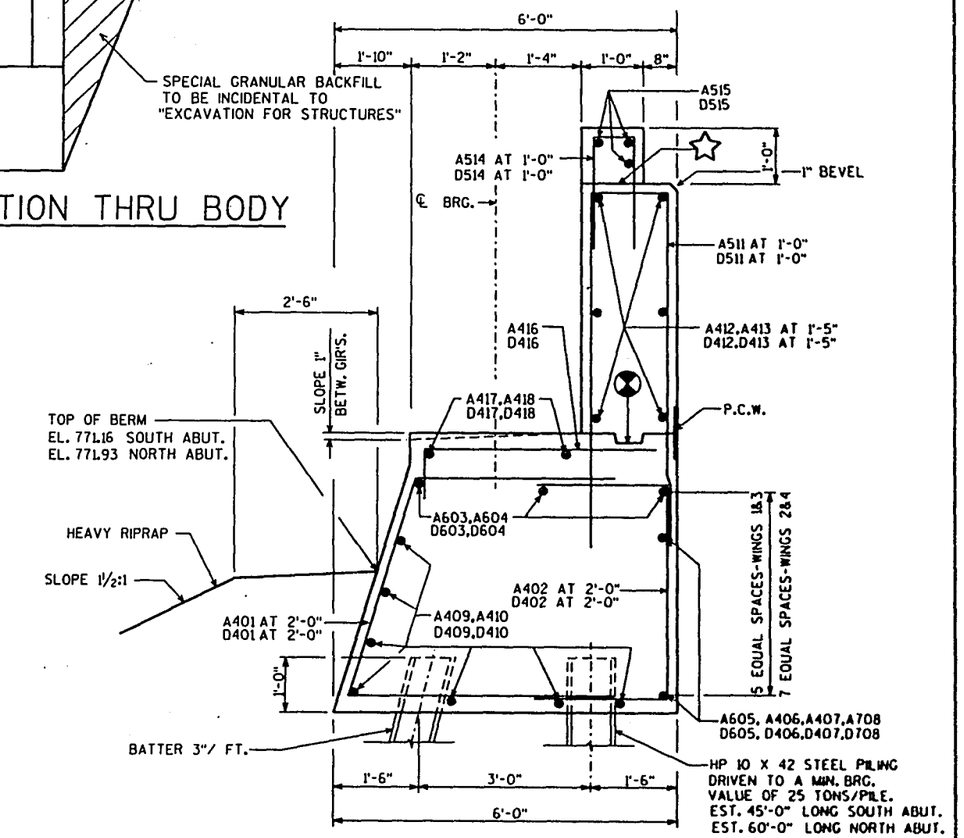
BILL OF BARS NORTH ABUTMENT

NOTE: THE FIRST OR FIRST TWO DIGITS OF THE BAR MARK SIGNIFIES THE BAR SIZE.

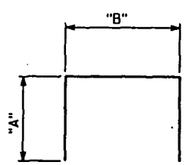
BAR MARK	COAT	NO. REQ'D.	LENGTH	BENT	CUT. DIAG.	BUN-DLE	LOCATION
D401		39	13-11	X			BODY
D402		39	7-5	X			BODY
D603		3	37-7				BODY
D604		3	44-4				BODY
D605		5	12-0				BODY-WING 3
D406		7	27-11				BODY
D407		7	25-3				BODY
D708		7	20-0				BODY-WING 4
D409		7	37-7				BODY
D410		7	43-4				BODY
D511		78	10-4	X			BACKWALL
D412		6	37-7				BACKWALL
D413		6	43-4				BACKWALL
D514	X	78	4-8	X			PAVING NOTCH
D515	X	33	8-0				PAVING NOTCH
D416		17	5-1	X			BODY
D417		2	14-5				BODY
D418		2	4-0				BODY
D519		4	8-7				WING 3-F.F.-HORIZ.
D420		4	5-1				WING 3-F.F. & B.F.-VERT.
D421		6	8-0	X			WING 3-F.F. & B.F.
D422		9	6-5	X			WINGS
D423		10	5-5				WING 3-F.F. & B.F.-VERT.
D424		7	5-5				WING 3-F.F. & B.F.-VERT.
D425		4	7-1	X			WING 3-F.F.-HORIZ.
D626		5	10-0				WING 3-B.F.-HORIZ.
D427		5	10-3	X			WING 3-B.F.-HORIZ.
D428		10	6-6				WINGS-SIDEWALL-HORIZ.
D429		8	5-0				WINGS-SIDEWALL-VERT.
D530		8	15-9				WING 4-F.F.-HORIZ.
D431		8	8-11	X			WING 4-F.F. & B.F.
D432		8	8-5	X			WING 4-F.F. & B.F.
D433		10	4-10				WING 4-F.F. & B.F.-VERT.
D434		21	5-4				WING 4-F.F. & B.F.-VERT.
D435		4	13-10	X			WING 4-F.F.-HORIZ.
D736		6	18-0				WING 4-B.F.-HORIZ.
D437		5	20-3	X			WING 4-B.F.-HORIZ.
D438		1	8-4				WING 4-B.F.-HORIZ.
D439		4	8-4	X			AT UTILITY BLOCKOUT
D740		3	10-0				WING 3



SECTION THRU BODY



SECTION THRU ABUT. BODY

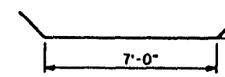


MARK	"A"	"B"
A402	1'-7	4'-5
A511	4'-7	1'-4
A514	2'-1	8"
A421	1'-7	4'-7
A431	2'-3	5'-1
A432	2'-0	5'-1
D402	1'-7	4'-5
D511	4'-7	1'-4
D514	2'-1	8"
D421	1'-7	5'-0
D431	2'-3	4'-7
D432	2'-0	4'-7

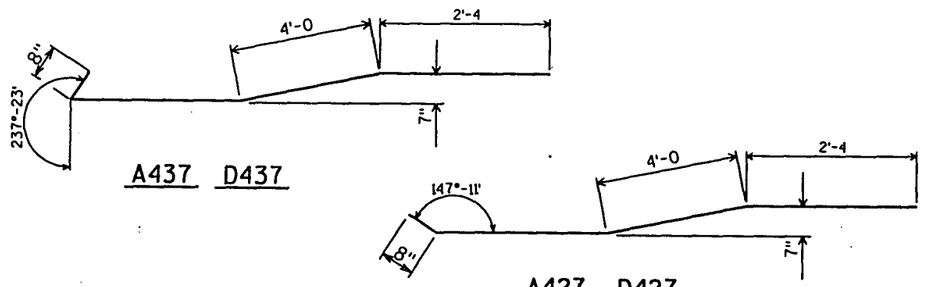
MARK	"C"
A416	1'-6
A422	10"
D416	1'-6
D422	10"

CONSTRUCTION JOINT - POUR CONCRETE ABOVE THIS JOINT AFTER SUPERSTRUCTURE CONCRETE IS IN PLACE - STRIKE OFF AND LEAVE ROUGH.

OPTIONAL CONSTRUCTION JOINT FORMED BY A SURFACED, BEVELED 2"X6" KEYWAY. IF JOINT IS NOT USED P.C.W. IS NOT REQUIRED.

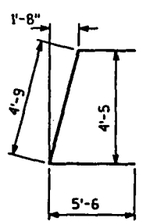


A439 D439

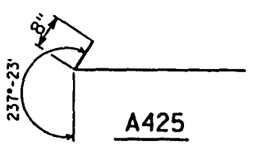


A437 D437

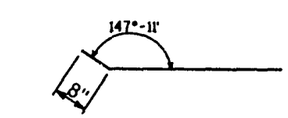
A427 D427



A401 D401



A425 D425



A435 D435

NO.	DATE	REVISION	BY

STATE OF WISCONSIN
DEPARTMENT OF TRANSPORTATION
DIVISION OF HIGHWAYS

STRUCTURE B-51-79

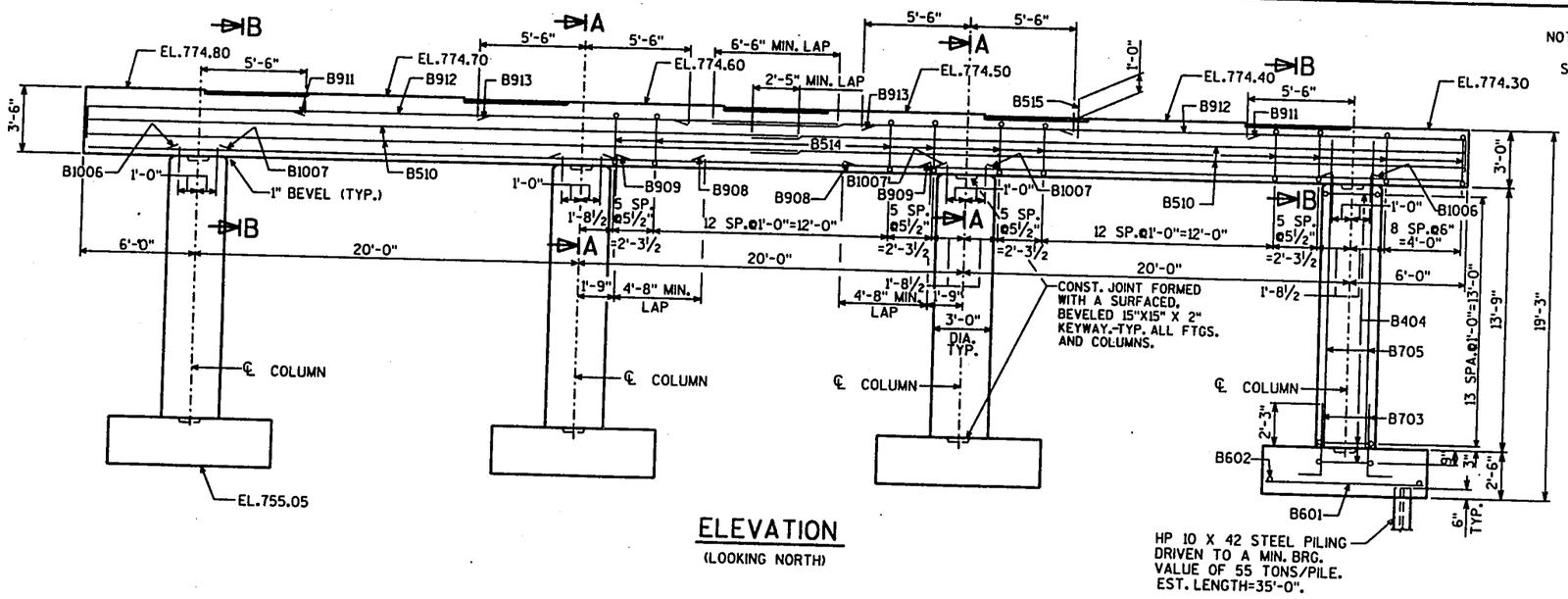
CONST. SPEC.	1989	DRAWN BY	DHB	PLANS CK'D.	KOK

ABUTMENT DETAILS

SHEET 8

BR 85179:79SOUTH.DGN

STATE PROJECT NUMBER	SHEET NO.
	5.27



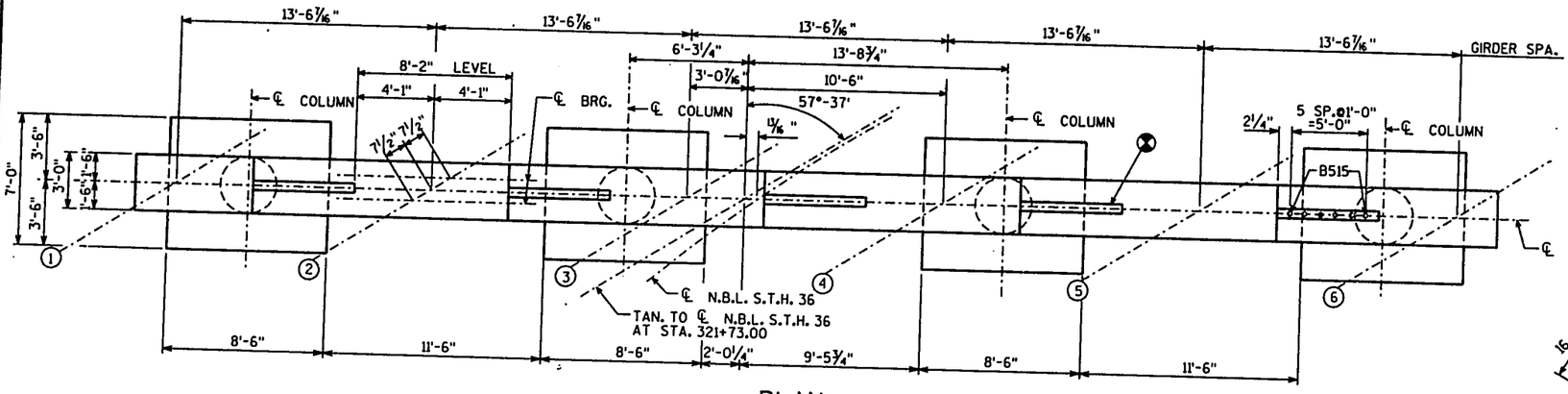
ELEVATION
(LOOKING NORTH)

NOTE:
ALL STIRRUPS ARE SINGLE STIRRUPS.

BILL OF BARS

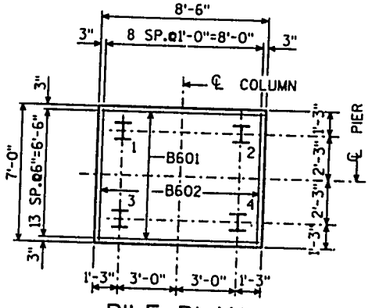
NOTE: THE FIRST OR FIRST TWO DIGITS OF THE BAR MARK SIGNIFIES THE BAR SIZE.

BAR MARK	COAT	NO. REQ'D.	LENGTH	BENT	CUT. DIAG.	BUN-DLE	LOCATION
B601		56	8-2				FOOTINGS
B602		36	6-8				FOOTINGS
B703		64	5-2	X			FOOTINGS AND COLUMNS
B404		60	9-2	X			FOOTINGS & COLUMNS-HOOPS
B705		64	16-3				COLUMNS
B1006		4	4-10				CAP-BOTTOM
B1007		6	18-0				CAP-BOTTOM
B908		2	32-3				CAP-BOTTOM
B909		2	44-1				CAP-BOTTOM
B510		8	37-3				CAP-SIDES
B911		6	13-6	X			CAP-TOP
B912		8	41-4	X			CAP-TOP
B913		6	11-0				CAP-TOP
B514		87	11-1	X			CAP-STIRRUPS
B515		30	2-0				CAP

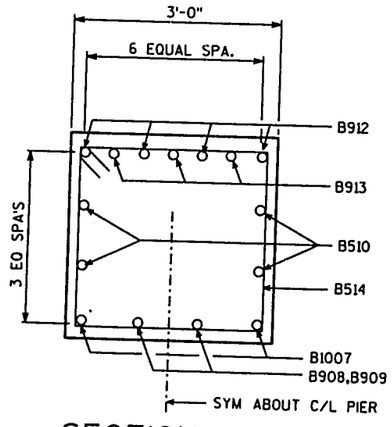


PLAN

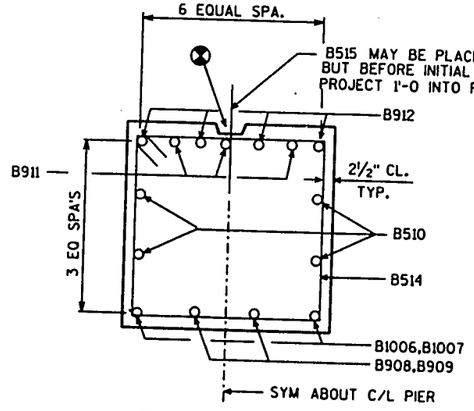
KEYWAY BETW GIR'S FORMED WITH SURFACED, BEVELED 2" X 6".



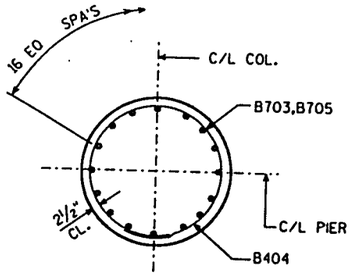
PILE PLAN



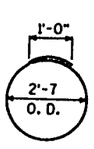
SECTION A



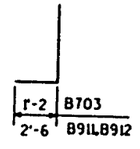
SECTION B



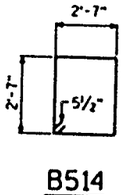
SECT. THRU COL.



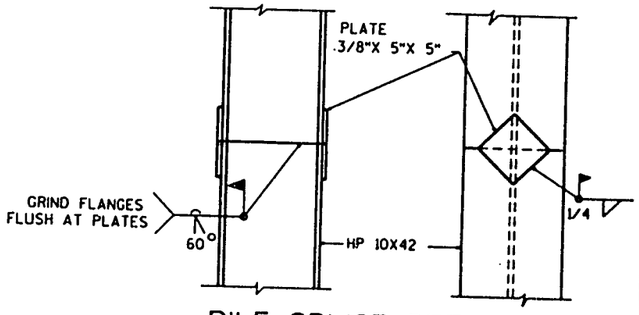
B404



B703, B911, B912



B514
(STIRRUP)



PILE SPLICE DETAIL

NO.	DATE	REVISION	BY

STATE OF WISCONSIN
DEPARTMENT OF TRANSPORTATION
DIVISION OF HIGHWAYS

STRUCTURE B-51-79

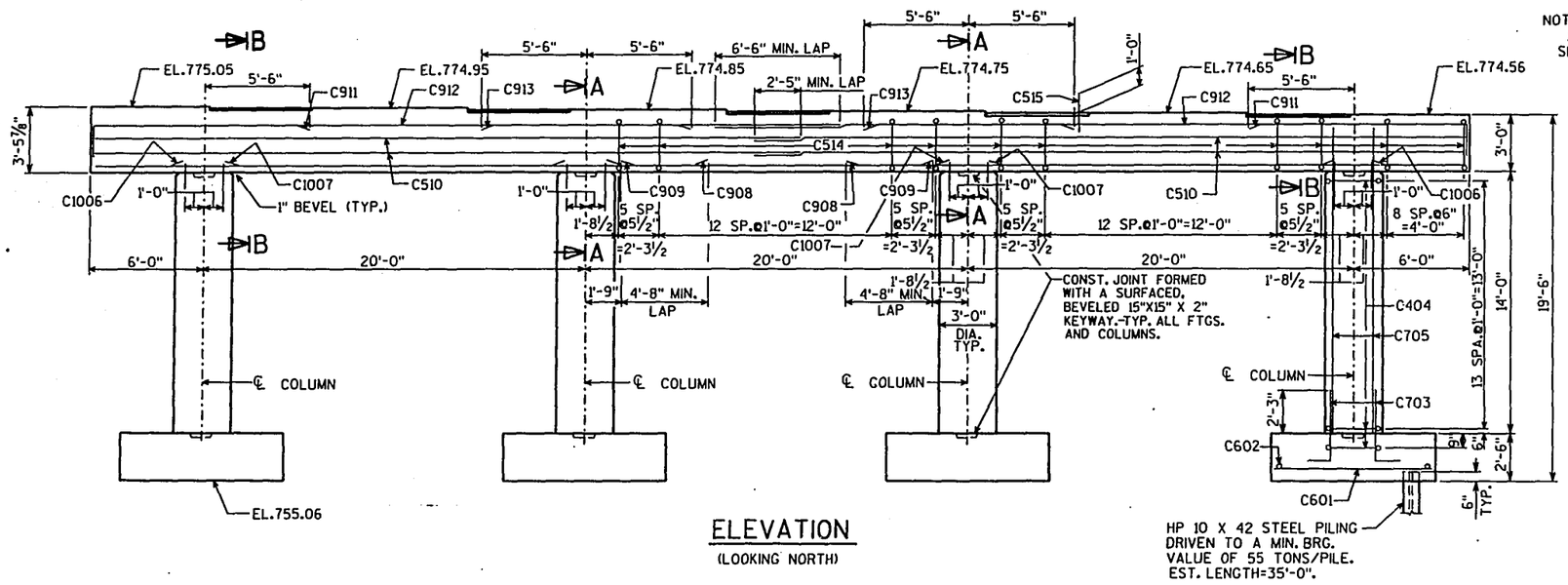
CONST. SPEC.	1989	DRAWN BY	DHB	PLANS CHD.	ROR

PIER 1

SHEET 9

BRB5179:79PIERS.DGN

STATE PROJECT NUMBER	SHEET NO.



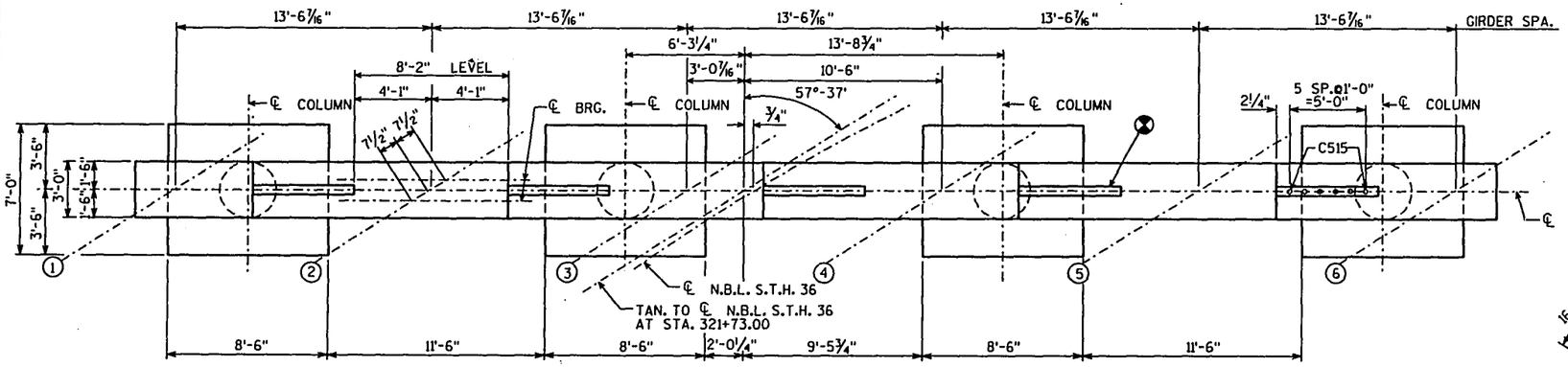
ELEVATION
(LOOKING NORTH)

NOTE:
ALL STIRRUPS ARE SINGLE STIRRUPS.

BILL OF BARS

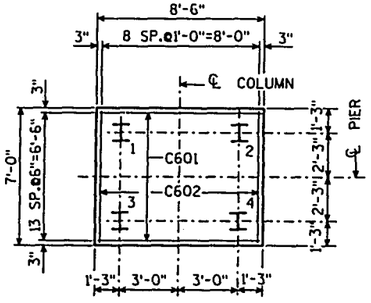
NOTE: THE FIRST OR FIRST TWO DIGITS OF THE BAR MARK SIGNIFIES THE BAR SIZE.

BAR MARK	COAT	NO. REQ'D.	LENGTH	BENT	CUT. DIAG.	BUN-DLE	LOCATION
C601		56	8-2				FOOTINGS
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C703		64	5-2	X			FOOTINGS AND COLUMNS
C404		60	9-2	X			FOOTINGS & COLUMNS-HOOPS
C705		64	16-6				COLUMNS
C1006		4	4-10				CAP-BOTTOM
C1007		6	18-0				CAP-BOTTOM
C908		2	32-3				CAP-BOTTOM
C909		2	44-1				CAP-BOTTOM
C510		8	37-3				CAP-SIDES
C911		6	13-6	X			CAP-TOP
C912		8	41-4	X			CAP-TOP
C913		6	11-0				CAP-TOP
C514		87	11-1	X			CAP-STIRRUPS
C515		30	2-0				CAP

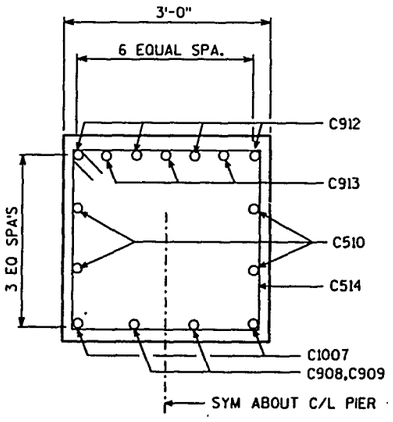


PLAN

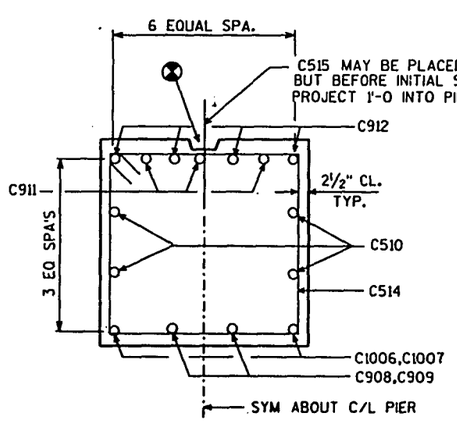
KEYWAY BETW GIR'S FORMED WITH SURFACED, BEVELED 2" X 6".



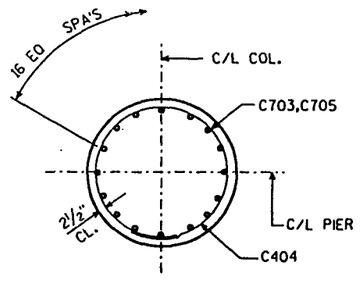
PILE PLAN



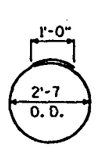
SECTION A



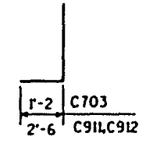
SECTION B



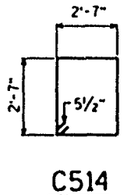
SECT. THRU COL.



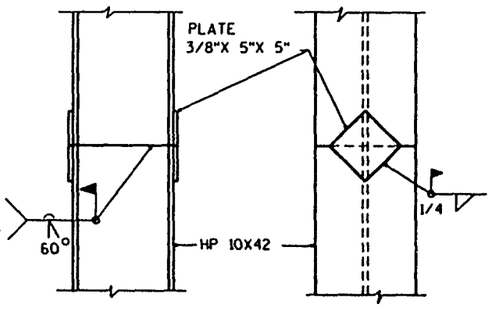
C404



C703, C911, C912



C514
(STIRRUP)



PILE SPLICE DETAIL

NO.	DATE	REVISION	BY

STATE OF WISCONSIN
DEPARTMENT OF TRANSPORTATION
DIVISION OF HIGHWAYS

STRUCTURE B-51-79

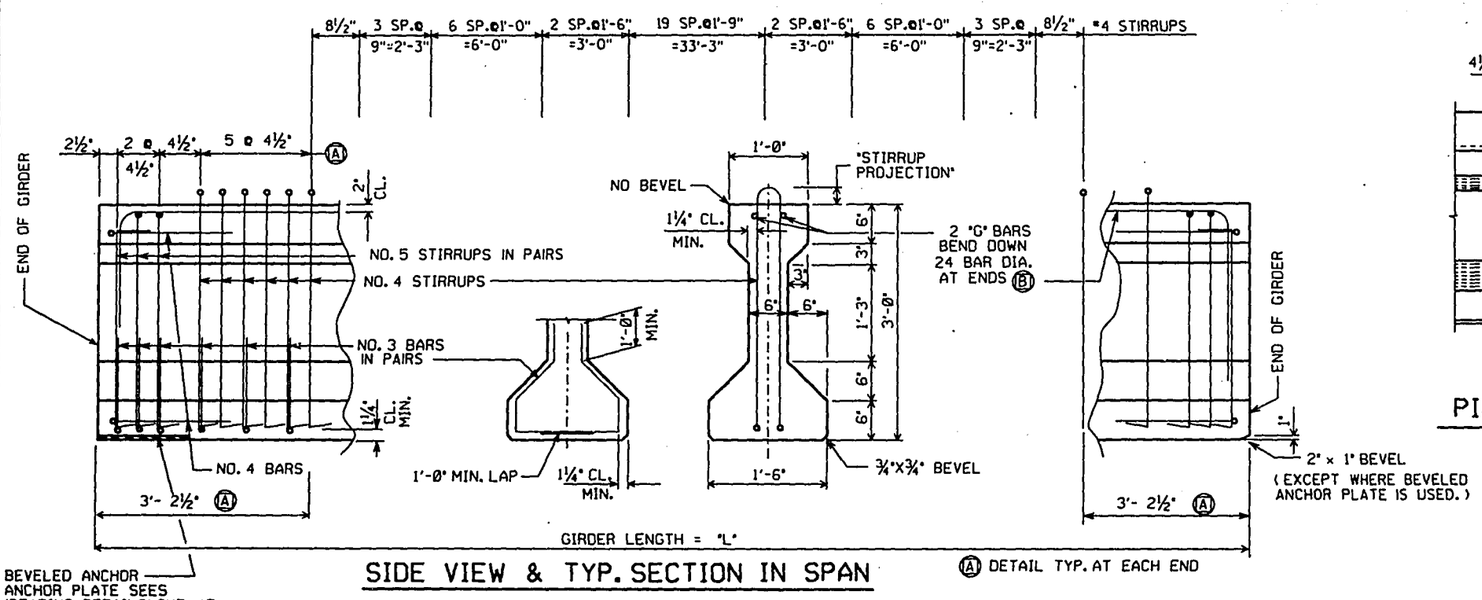
CONST. SPEC.	1989	DRAWN BY	DHB	PLANS CHKD.	KOK

PIER 2

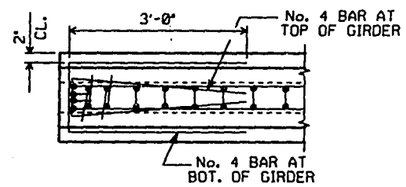
SHEET 10

BRBS179:79PIERS.DGN

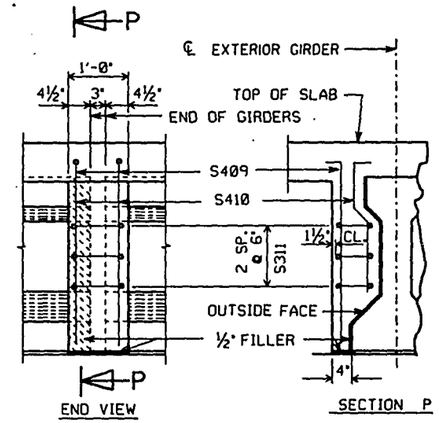
STATE PROJECT NUMBER	SHEET NO.
	8.24



SIDE VIEW & TYP. SECTION IN SPAN



TOP VIEW OF GIRDER ENDS



PILASTER DETAILS AT PIERS

GIRDER NOTES

TOP OF GIRDER TO BE ROUGH FLOATED AND BROOMED TRANSVERSELY, EXCEPT THE OUTSIDE 2" OF GIRDER, WHICH SHALL BE TROWEL FINISHED.

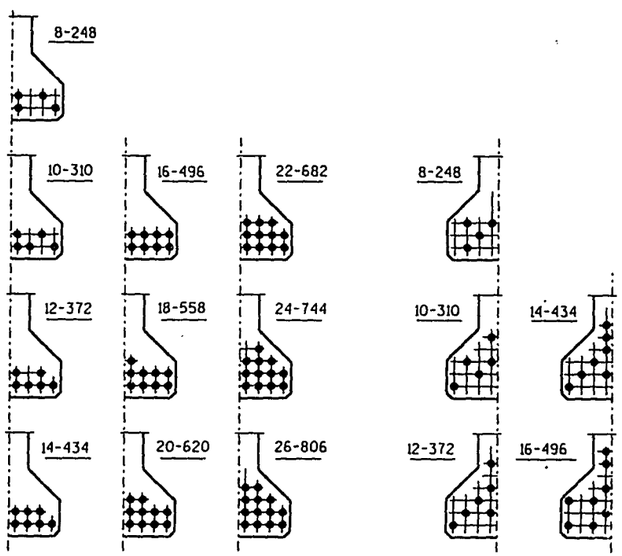
THE GIRDERS SHALL BE PROVIDED WITH A SUITABLE LIFTING DEVICE FOR HANDLING AND ERECTING THE GIRDERS.

PRESTRESSING STRANDS SHALL BE ½"ø - 7 WIRE LOW-RELAXATION STRANDS WITH AN ULTIMATE STRENGTH OF 270,000 psi AND SHALL BE FLUSH WITH THE ENDS OF THE GIRDER.

BEND EACH END OF No. 4 STIRRUPS 4½" AND No. 5 STIRRUPS 6".

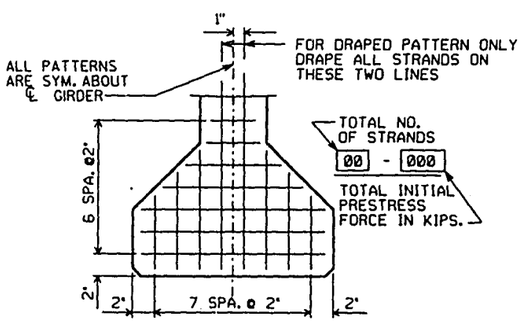
FOR DIAPHRAGM INSERT & CONNECTION DETAILS SEE "STEEL DIAPHRAGM" SHEET.

ENDS OF STRANDS SHALL BE PAINTED WITH NON-STAINING GRAY NON-BITUMINOUS JOINT SEALER. (THIS APPLIES ONLY TO THOSE ENDS OF GIRDERS THAT ARE FINALLY EXPOSED.)

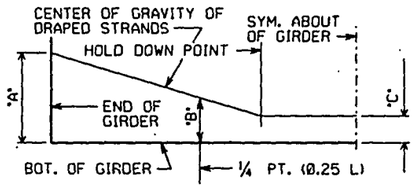


DRAPED PATTERN

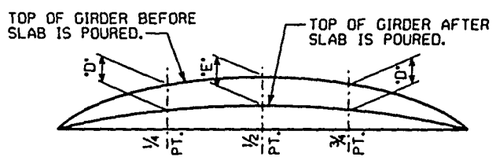
UNDRAPED PATTERN



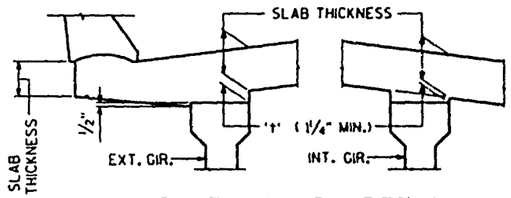
TYP. STRAND PATTERN



DRAPED STRAND PROFILE



DEAD LOAD DEFLECTION DIAGRAM



SLAB HAUNCH DETAIL

IF 1¼" MINIMUM HAUNCH HEIGHT 't' CANNOT BE MAINTAINED, THE GRADE LINE MAY BE REVISED BY THE ENGINEER AT THE OPTION OF THE CONTRACTOR. THE PLAN SLAB THICKNESS SHALL BE HELD. MAXIMUM HAUNCH HEIGHT EQUALS "STIRRUP PROJECTION" MINUS 3 INCHES.

TO DETERMINE 't', ELEV. OF TOP OF GIR'S. AT ℄ OF SUBSTRUCTURE UNITS & AT ¼ POINTS OF EACH SPAN SHALL BE TAKEN. THEN FOLLOW THIS PROCESS:

TOP OF DECK ELEV. AT FINAL GRADE
-TOP OF GIRDER ELEVATION
+ DEADLOAD DEFLECTION
-SLAB THICKNESS
=HAUNCH HEIGHT 't'

GIRDER DATA

SPAN	GIRDER LENGTH "L"	DEAD LOAD DEFL. (IN.) "D"	DEAD LOAD DEFL. (IN.) "E"	CONC. STRGTH. f'c (p.s.i.)	"STIRRUP PROJECTION"
1,2,3	63'-7"	¾	1	6,000	6"

(B) No. 4 "G" BARS, MAY BE SPLICED AT THE 1/3 POINTS. USE 3'-0" MIN. LAP.

DRAPED PATTERN						UNDRAPED PATTERN	
TOTAL NO. OF STRANDS	f'ci (p.s.i.) *	(INCHES) "A"	"B" MIN.	"B" MAX.	"C"	TOTAL NO. OF STRANDS	f'ci (p.s.i.) *
20	5,060	32	11	14	4	——	——

* MINIMUM CYLINDER STRENGTH OF CONCRETE @ TIME OF TRANSFER OF PRESTRESS FORCE.

NO.	DATE	REVISION	BY

STATE OF WISCONSIN
DEPARTMENT OF TRANSPORTATION
DIVISION OF HIGHWAYS

STRUCTURE B-51-79

CONST. SPEC. 1989 | DRAWN BY DHB | PLANS CHKD BY DJA

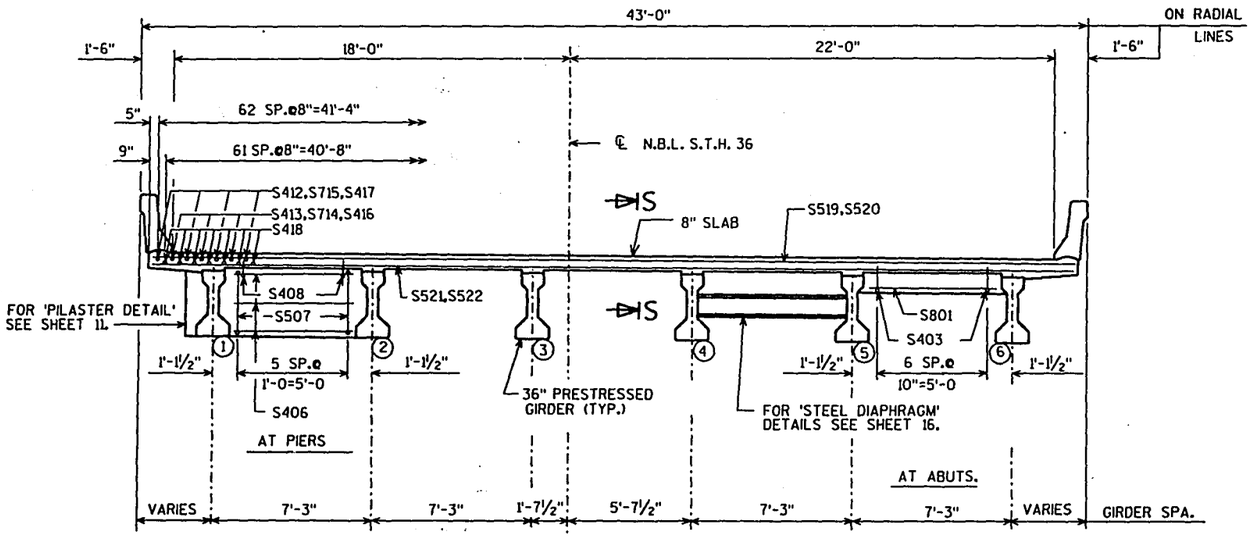
36" PRESTRESSED GIRDER DETAILS

SHEET 11

REVISED 10-91

BR 8517-06.DGN LV 12 67

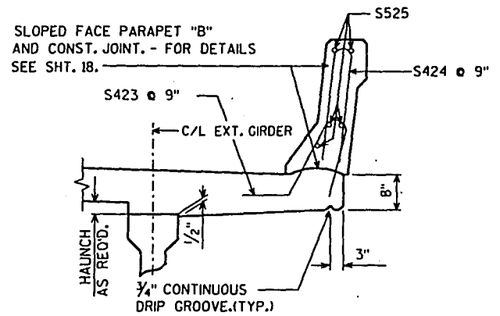
STATE PROJECT NUMBER	SHEET NO.
	3.10



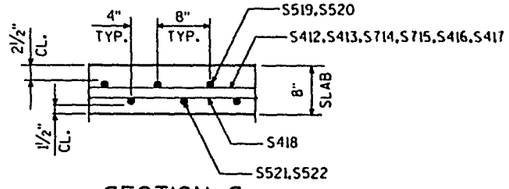
CROSS SECTION THRU ROADWAY

(LOOKING NORTH)

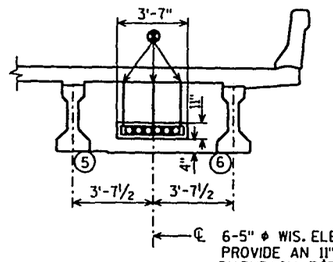
Ⓢ INDICATES CONCRETE ANCHORS TO BE PLACED IN SLAB. ANCHORS TO BE PROVIDED BY THE UTILITY AND PLACED BY THE CONTRACTOR. SPACING OF ANCHORS TO BE FURNISHED BY THE UTILITY. COST OF PLACING ANCHORS TO BE INCLUDED IN THE PRICE BID "CONCRETE MASONRY".



SECTION AT EXT. GIR.



SECTION S



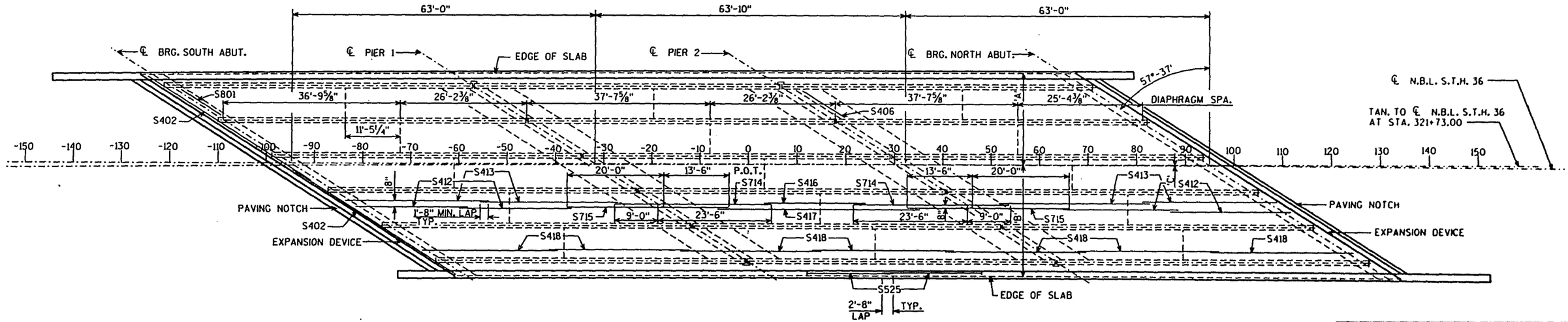
PART CROSS SECTION SHOWING UTILITIES

(SECTION TAKEN AT PIER DIAPH.)

TABLE OF TAN. OFFSETS

DISTANCES ARE TYP. FOR BOTH + PLUS & - MINUS LOCATIONS FROM POINT OF TANGENCY. (OFFSETS ARE NORMAL TO TAN. LINE.)

DIST.	A	B	C
0	19'-0 7/8	23'-1 1/8	0'-0
10	19'-0 3/4	23'-1 1/4	0'-0 1/16
20	19'-0 3/4	23'-1 1/4	0'-0 1/16
30	19'-0 5/8	23'-1 1/16	0'-0 1/16
40	19'-0 1/4	23'-1 3/4	0'-0 1/4
50	19'-0	23'-2	0'-1
60	18'-11 1/2	23'-2 1/2	0'-1 1/16
70	18'-11 1/16	23'-2 15/16	0'-1 1/16
80	18'-10 1/16	23'-3 5/16	0'-2 1/16
90	18'-10	23'-4	0'-3
100	18'-9 5/16	23'-4 11/16	0'-3 1/16
110	18'-8 5/8	23'-5 3/8	0'-4 1/16
120	18'-7 3/4	23'-6 1/4	0'-5 1/16
130	18'-7	23'-7	0'-6
140	18'-6	23'-8	0'-7
150	18'-5	23'-9	0'-8



PLAN

NO.	DATE	REVISION	BY

STATE OF WISCONSIN
DEPARTMENT OF TRANSPORTATION
DIVISION OF HIGHWAYS

STRUCTURE B-51-79

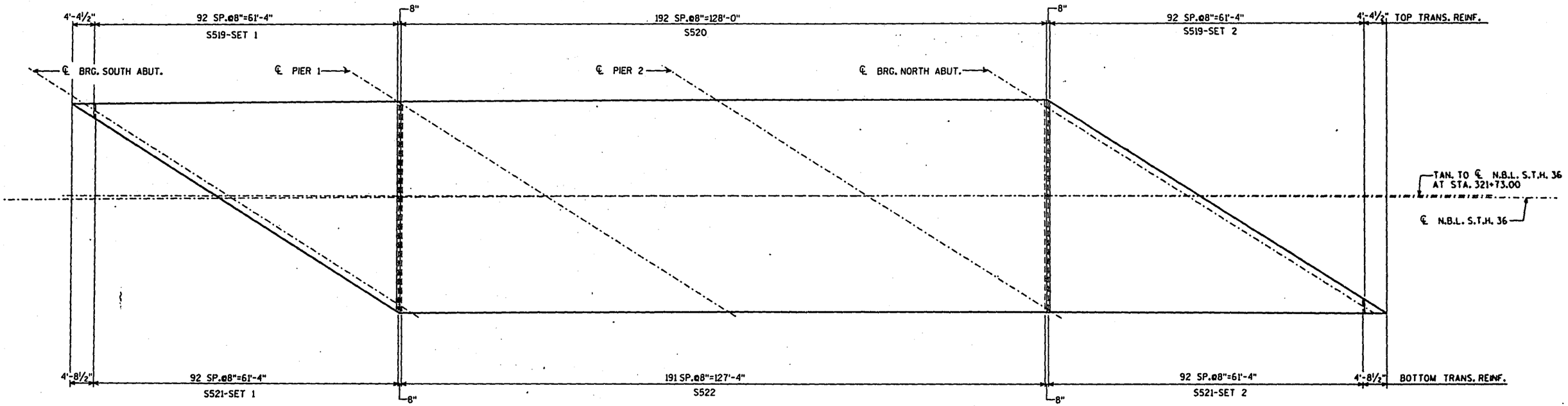
CONST. SPEC.	1989	DRAWN BY	DHB	PLANS CHD.	KOK

SUPERSTRUCTURE

SHEET 12

BRB5179:SUPER79.DGN

STATE PROJECT NUMBER	SHEET NO.
	8.31



PLAN

(SHOWING TRANS. BAR STEEL REINFORCEMENT)

NO.	DATE	REVISION	BY

STATE OF WISCONSIN
DEPARTMENT OF TRANSPORTATION
DIVISION OF HIGHWAYS

STRUCTURE B-51-79

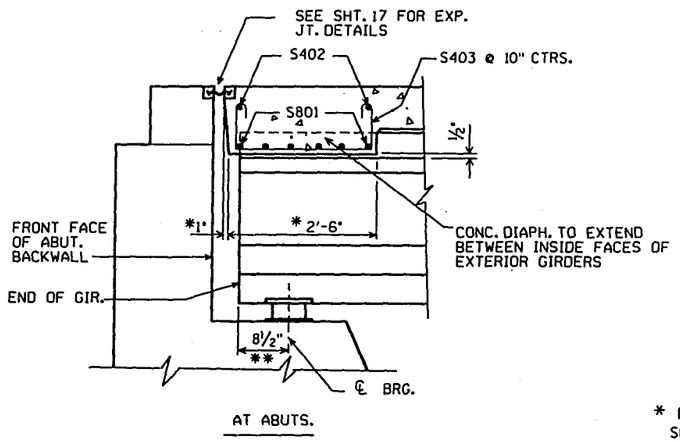
CONST. SPEC. 1989	DRAWN BY DMB	PLANS CK'D. KOK

SUPERSTRUCTURE DETAILS

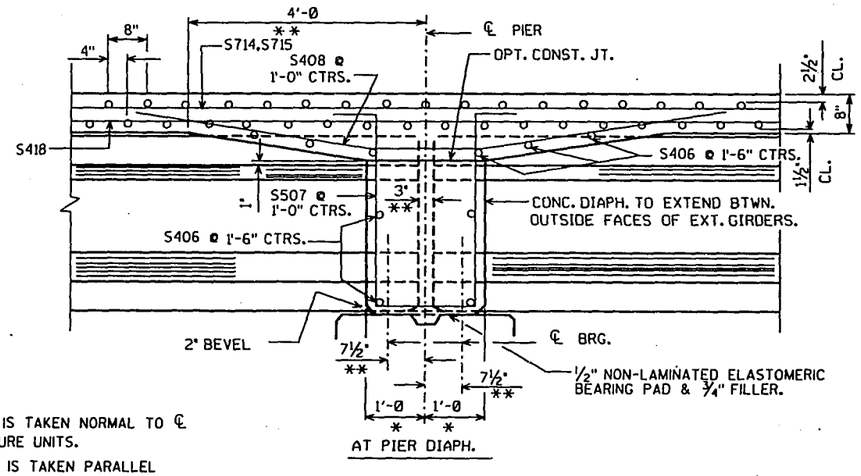
SHEET 13

BR B5179:SUPER79.DGN

STATE PROJECT NUMBER	SHEET NO.
	3.12.



AT ABUTS.

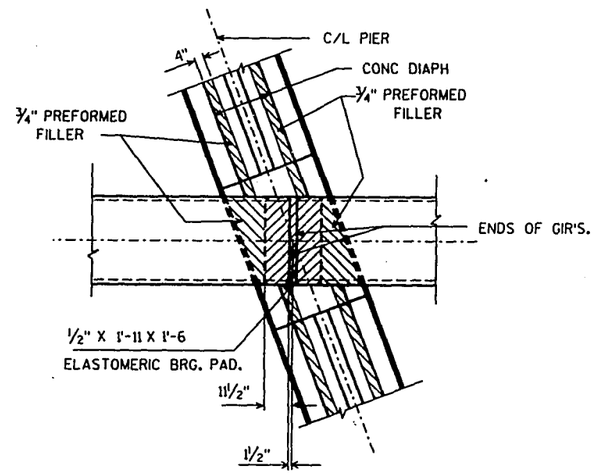


AT PIER DIAPH.

* DIMENSION IS TAKEN NORMAL TO ℄ SUBSTRUCTURE UNITS.

** DIMENSION IS TAKEN PARALLEL TO ℄ GIRDER.

LONGIT. SECTION

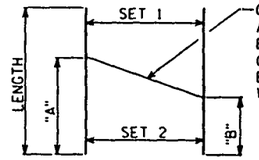


BEARING PAD DETAIL

BILL OF BARS

NOTE: THE FIRST OR FIRST TWO DIGITS OF THE BAR MARK SIGNIFIES THE BAR SIZE.

BAR MARK	COAT	NO. REQ'D.	LENGTH	BENT	CUT. DIAG.	BUN-DLE	LOCATION
S801	X	60	11-4				AT ABUTMENTS-TRANS.
S402	X	8	39-11				AT ABUTMENTS-TRANS.
S403	X	70	6-6	X			AT ABUTS.-BETWEEN GIRDERS
S504	X	20	11-4				AT ABUTS.-BETWEEN GIRDERS
S505		——	——				NOT USED
S406	X	100	10-10				AT PIER DIAPHRAGM
S507	X	60	10-7	X			AT PIER DIAPHRAGM
S408	X	60	9-9	X			AT PIER DIAPHRAGM
S409	X	8	3-6	X			PILASTER AT PIERS
S410	X	8	2-9	X			PILASTER AT PIERS
S311	X	12	3-1	X			PILASTER AT PIERS
S412	X	128	24-3				SLAB-LONGIT.-TOP-SPANS 1&3
S413	X	124	29-9				SLAB-LONGIT.-TOP-SPANS 1&3
S714	X	62	32-6				SLAB-LONGIT.-TOP-OVER PIERS
S715	X	64	33-6				SLAB-LONGIT.-TOP-OVER PIERS
S416	X	31	20-2				SLAB-LONGIT.-TOP-SPAN 2
S417	X	32	40-2				SLAB-LONGIT.-TOP-SPAN 2
S418	X	434	29-3				SLAB-LONGIT.-BOTTOM
S519	X	93	43-9		X		SLAB-TRANS.-TOP
S520	X	193	41-10				SLAB-TRANS.-TOP
S521	X	93	44-1		X		SLAB-TRANS.-BOTTOM
S522	X	192	41-10				SLAB-TRANS.-BOTTOM
S423	X	518	4-3	X			SLAB & PARAPET 'B'
S424	X	518	4-10	X			PARAPET 'B'
S525	X	50	41-0				PARAPET 'B'



CUT BARS ALONG THIS LINE. MAKE ALL CUTS NORMAL TO BAR AXIS. BARS ON EACH SIDE OF CUT CONSTITUTE ONE SET. BUNDLE EACH SET SEPARATELY AND TAG WITH BAR AND SET NUMBER.

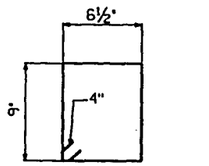
BENT BARS IF USED IN CUTTING DIAGRAM SHALL BE BENT AFTER CUTTING.

CUTTING DIAGRAM

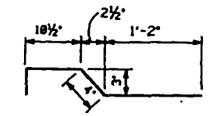
MARK	"A"	"B"	NO. OF BARS/SET	NO. OF EACH SET
S519	41'-4	2'-5	93	1
S521	41'-6	2'-7	93	1

TOP OF DECK ELEVATIONS

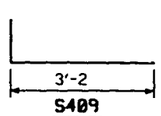
	℄ BRG. S. ABUT.	¼ PT.	½ PT.	¾ PT.	℄ PIER 1	¼ PT.	½ PT.	¾ PT.	℄ PIER 2	¼ PT.	½ PT.	¾ PT.	℄ BRG. N. ABUT.
GIRDER 1	778.46	778.51	778.57	778.62	778.69	778.75	778.81	778.88	778.94	779.00	779.07	779.13	779.19
GIRDER 2	778.35	778.41	778.46	778.52	778.59	778.65	778.71	778.78	778.84	778.90	778.97	779.03	779.10
GIRDER 3	778.25	778.30	778.36	778.42	778.49	778.55	778.61	778.68	778.74	778.81	778.87	778.93	779.00
GIRDER 4	778.14	778.20	778.26	778.32	778.39	778.45	778.51	778.58	778.64	778.71	778.77	778.84	778.90
GIRDER 5	778.04	778.10	778.16	778.22	778.29	778.35	778.42	778.48	778.54	778.61	778.67	778.74	778.80
GIRDER 6	777.94	778.00	778.06	778.13	778.19	778.25	778.32	778.38	778.45	778.51	778.58	778.64	778.71



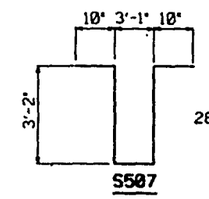
S311



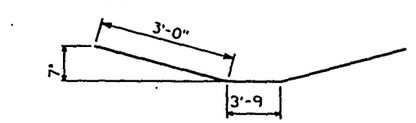
S410



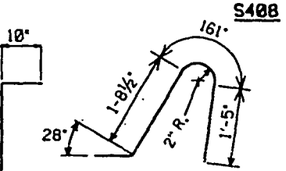
S409



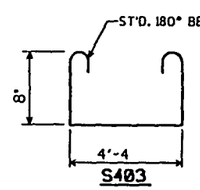
S507



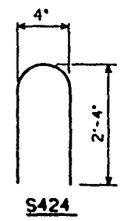
S408



S423



S403



S424

NO.	DATE	REVISION	BY

STATE OF WISCONSIN
DEPARTMENT OF TRANSPORTATION
DIVISION OF HIGHWAYS

STRUCTURE B-51-79

CONST. SPEC. 1989	DRAWN BY DHB	PLANS C&O. K.O.K.

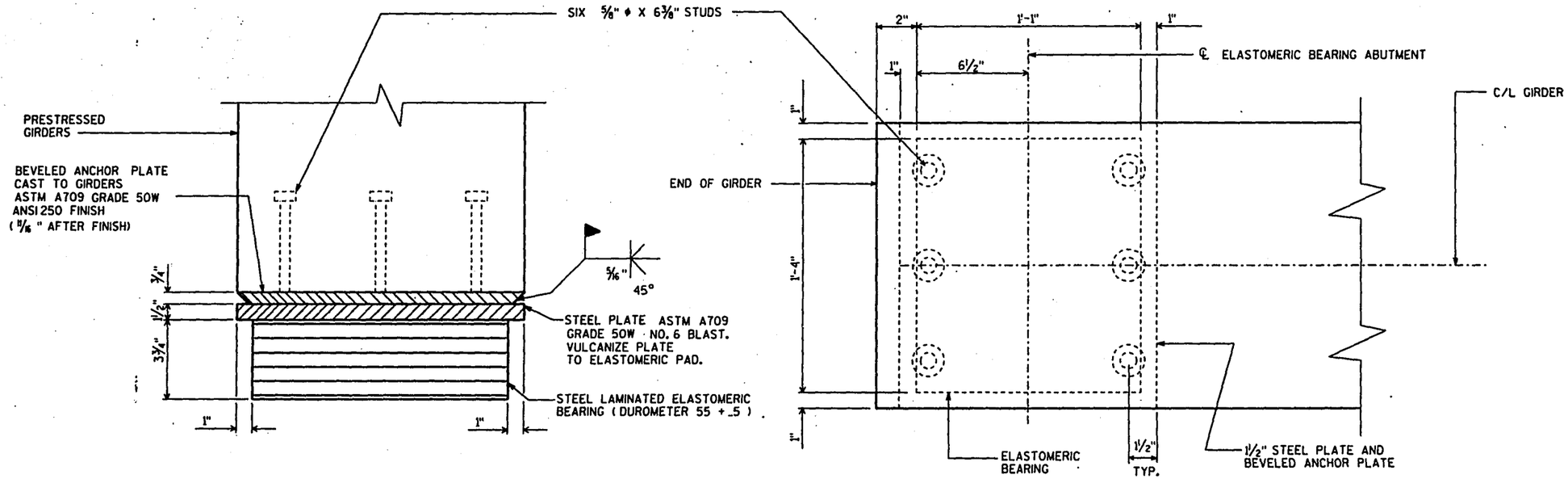
SUPERSTRUCTURE DETAILS

SHEET 14

LEVELS 12 6

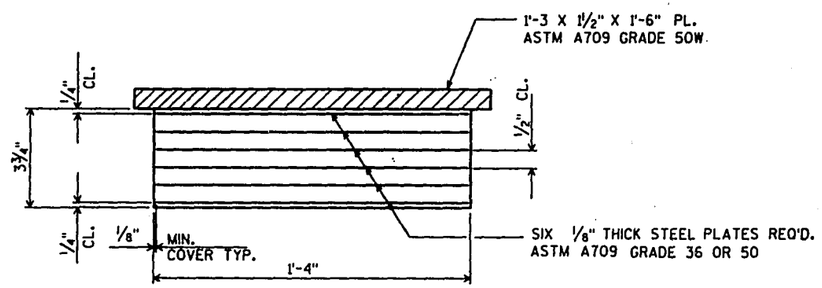
BR B5179:PRE36.DGN SCALE 1.33333

STATE PROJECT NUMBER	SHEET NO.
	18.43



END VIEW

PLAN VIEW



SECTION THRU ELASTOMERIC BEARING

NOTE:

BEARINGS SHALL NOT BE PLACED AT A TEMPERATURE GREATER THAN 70 ° F.

ALL MATERIAL USED FOR BEARINGS SHALL BE PAID AT THE UNIT PRICE BID FOR "LAMINATED ELASTOMERIC BEARING PAD."

NO.	DATE	REVISION	BY

STATE OF WISCONSIN
DEPARTMENT OF TRANSPORTATION
DIVISION OF HIGHWAYS

STRUCTURE B-51-79

CONST. SPEC.	1989	DRAWN BY	DHB	PLANS CHK.	ROK

PRESTRESSED GIRDER BEARINGS

SHEET 15

BR_B5179: BRELASPG.DGN

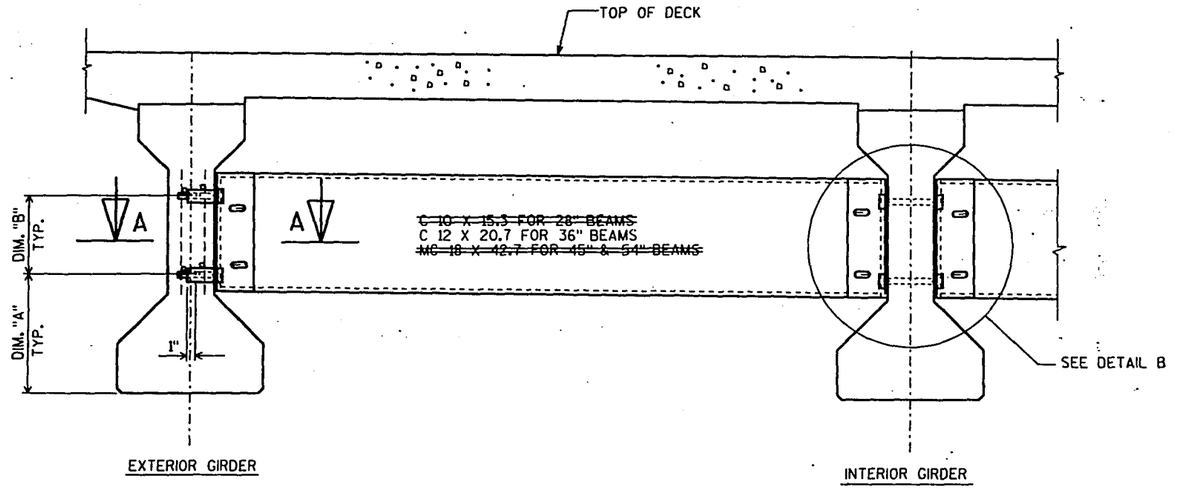
FT 55

10-92

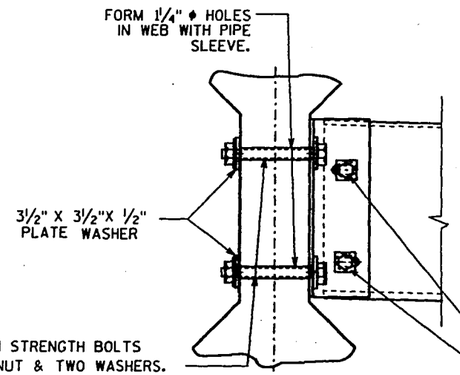
STATE PROJECT NUMBER	SHEET NO.
	8.34

TABLE

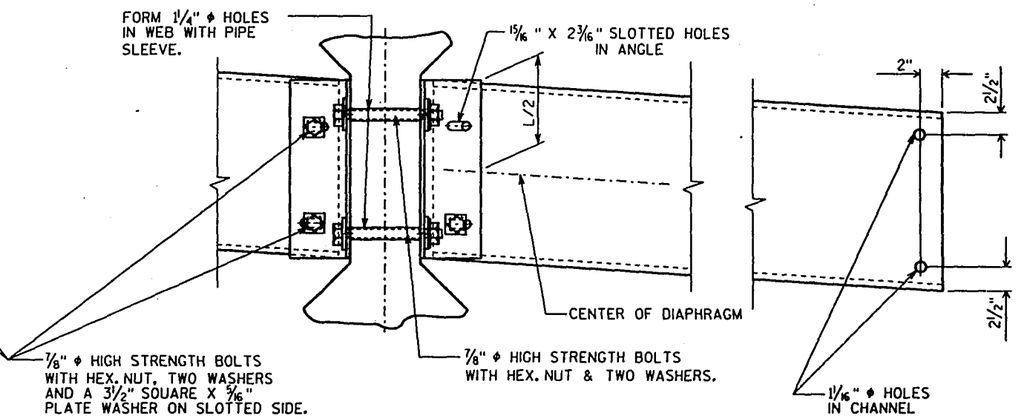
GIRDER HEIGHT	DIM. "A"	DIM. "B"	DIM. "L"	DIM. "X"
~~28"~~	~~1'-0~~	~~7"~~	~~10"~~	~~2½"~~
36"	1'-2	11"	1'-2	3½"
~~45"~~	~~1'-4½~~	~~1'-3~~	~~1'-6~~	~~2½"~~
~~54"~~	~~1'-7~~	~~1'-7~~	~~1'-10~~	~~4½"~~



PART TRANSVERSE SECTION AT DIAPHRAGM



(FOR STAGGERED DIAPHRAGM)



(FOR CONTINUOUS LINE OF DIAPHRAGMS)

DETAIL B

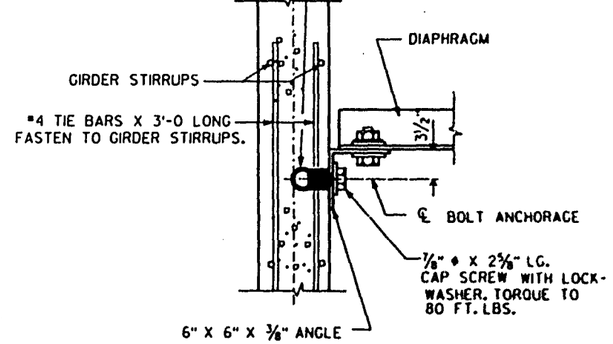
NOTES

ALL DIAPHRAGM MATERIAL NOT EMBEDDED IN THE CONCRETE GIRDER SHALL BE PAID FOR AT THE UNIT PRICE BID FOR "STEEL DIAPHRAGM".

EACH DIAPHRAGM BETWEEN GIRDERS SHALL CONSTITUTE ONE UNIT.

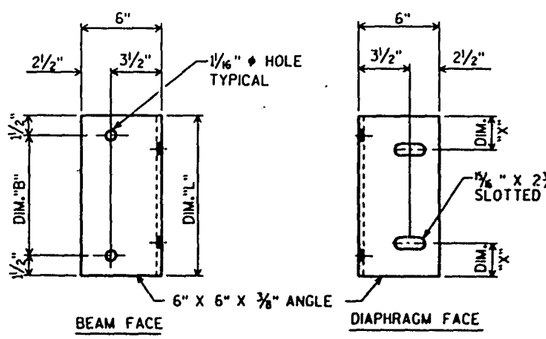
ALL DIAPHRAGM STRUCTURAL STEEL SHALL BE ASTM A709 GRADE 36. ALL BOLTS, NUTS AND WASHERS SHALL BE ASTM A325 TYPE 1.

ALL DIAPHRAGM STRUCTURAL STEEL SHOWN SHALL BE HOT-DIPPED GALVANIZED. ALL BOLTS, NUTS AND WASHERS SHALL BE HOT-DIPPED GALVANIZED IN ACCORDANCE WITH ASTM A153 CLASS C. GALVANIZED NUTS SHALL BE TAPPED OVERSIZE IN ACCORDANCE WITH THE REQUIREMENTS OF ASTM A563 AND SHALL MEET THE REQUIREMENTS OF SUPPLEMENTARY REQUIREMENT S1 OF ASTM A563. LUBRICANT AND TEST FOR COATED NUTS.



SECT. A-A

(FOR EXTERIOR ATTACHMENT)



DIAPHRAGM SUPPORT

NO.	DATE	REVISION	BY

STATE OF WISCONSIN
DEPARTMENT OF TRANSPORTATION
DIVISION OF HIGHWAYS

STRUCTURE B-51-79

CONST. SPEC.	DRAWN BY	PLANS CHD.
1989	DHB	KOK

STEEL DIAPHRAGM

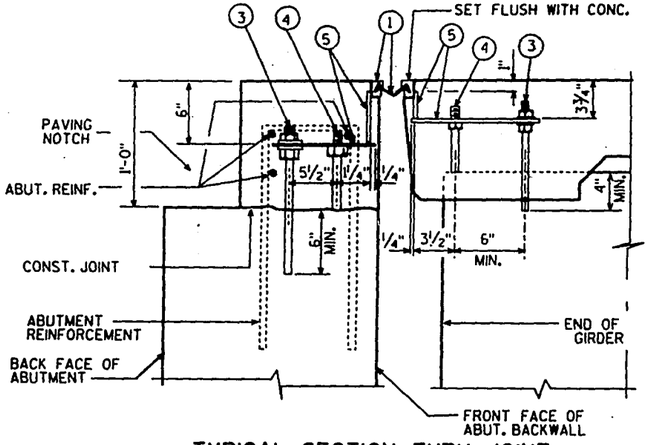
SHEET 16

4-92

AS • 1

DOT\B51796SSTDIA.DGN

STATE PROJECT NUMBER	SHEET NO.
	8.15

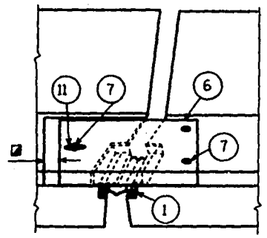


TYPICAL SECTION THRU JOINT

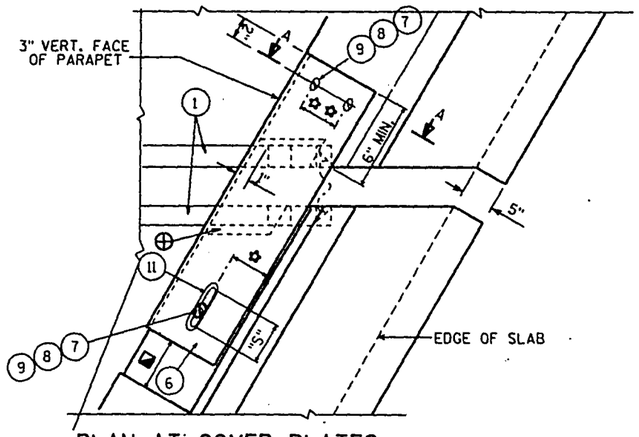
NORMAL TO ℄ SUBSTRUCTURE.

⊕ BLOCK OUT CONCRETE 2" EACH SIDE FOR JOINT OPENING

◪ JOINT OPENING DIM. ALONG SKEW PLUS ½". 'S' EQUALS 6".



VIEW OF PARAPET PLATES FROM ROADWAY



PLAN AT COVER PLATES

DIRECTION OF TRAFFIC DETERMINES THE ORENTATION OF PLATE #6

LEGEND

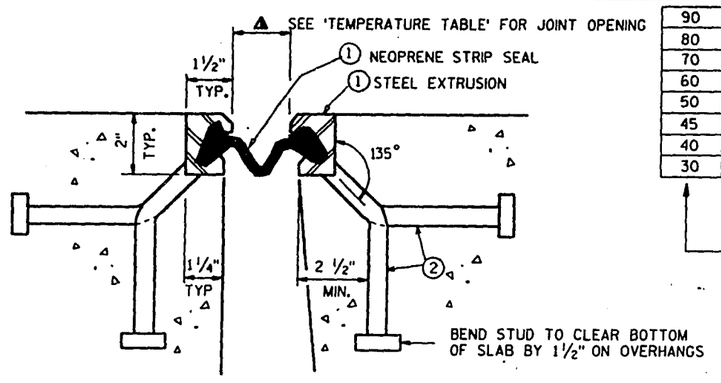
1. NEOPRENE STRIP SEAL & STEEL EXTRUSIONS D.S. BROWN SSA2-400A2, LEWIS ENGINEERING W-400L. STRUCTURAL ACCESSORIES SA2-400SS OR WATSON BOWMAN A3-400SE EXTRUSIONS TO BE A.S.T.M. A36 STEEL.
2. STUDS ⅝" ϕ X 6⅜" LONG AT 6" ALTERNATE CENTERS. WELD TO EXTRUSIONS & BEND AS SHOWN AFTER WELDING.
2A. 3" X ½" ANCHOR PLATE WITH ⅝"ϕ ROD. WELD ROD TO ANCHOR PLATE. WELD ANCHOR PL. TO #1 AT 1'-6" CTRS. BETWEEN GIRDERS.
3. ¾" ϕ THREADED ROD WITH 2 NUTS AND WASHERS. FOR PRESTRESSED GIRDERS FIELD SET ON ℄ OF GIRDER A MINIMUM OF 4" FROM END OF GIRDER. FOR STEEL GIRDERS WELD THREADED ROD TO TOP FLANGE OR ATTACH BY BOLTING THRU FLANGE. ON ABUTMENT SIDE GROUT THREADED ROD INTO FIELD DRILLED HOLES IN ABUTMENT BACKWALL AS SHOWN.
4. ¾"ϕ THREADED ROD WITH NUT. TACK WELD NUT TO NO. 5.
5. FABRICATE SUPPORT FROM 3" X ½" BAR AS SHOWN OR EQUIVALENT, ONE PER GIRDER PER SIDE. WELD TO NO. 1. PROVIDE 1½" ϕ HOLE FOR NO. 3 & 1" ϕ HOLE FOR NO. 4.
6. PLATE ⅜" X 1'-2" X (2'-0" LONG FOR SKEWS ≤ 10° TO 45°) & 3'-0" LONG FOR SKEWS > 45°) WITH HOLES FOR #7 & #11. BEND AS SHOWN
7. ¾" X 1½" STAINLESS STEEL FLAT HEAD MACHINE SCREWS. RECESS 1/16" BELOW PLATE SURFACE.
8. ¾" X 4" GALV. HEX HEAD BOLT. BENT 45°.
9. ¾" X 2 ¼" GALV. THREADED COUPLING.
11. 1" X DIMENSION "S" SLOTTED CSK. HOLE FOR #7. SLOT PARALLEL TO DIRECTION OF MOVEMENT.

TEMPERATURE TABLE

90	2⅛
80	2⅛
70	2⅛
60	2¼
50	2¼
45	2¼
40	2¼
30	2¼

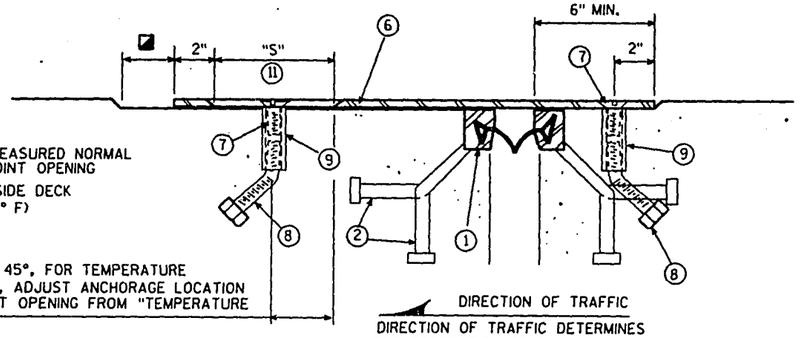
▲ (IN.) MEASURED NORMAL TO JOINT OPENING

SHADED UNDERSIDE DECK TEMPERATURE (° F)



SECTION THRU JOINT

EXTERIOR GIRDER TO EDGE OF SLAB & AT PARAPETS, MEDIANS & SIDEWALKS

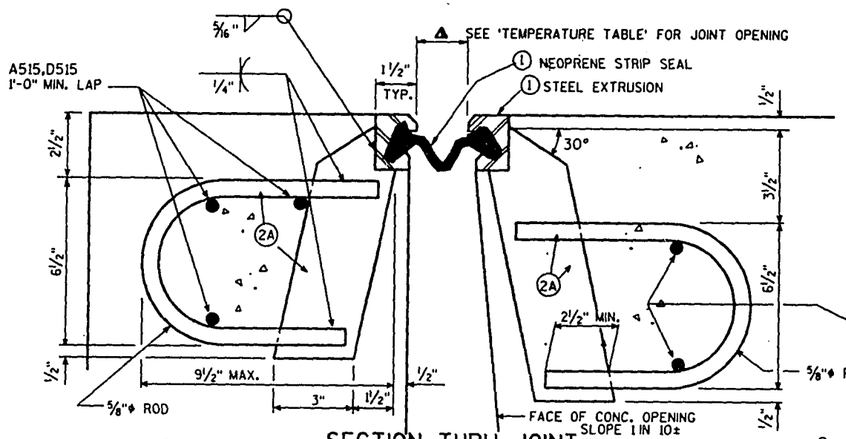


S/2 AT 45°, FOR TEMPERATURE VARIATIONS, ADJUST ANCHORAGE LOCATION USING JOINT OPENING FROM "TEMPERATURE TABLE"

DIRECTION OF TRAFFIC

DIRECTION OF TRAFFIC DETERMINES THE ORENTATION OF PLATE #6 AS SHOWN.

SECTION B-B

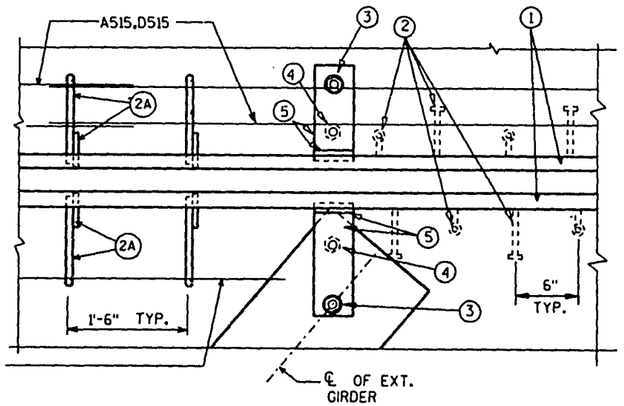


AT PAVING BLOCK — AT SLAB

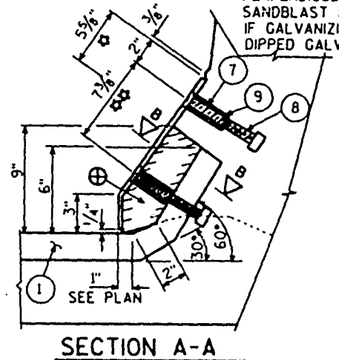
SECTION THRU JOINT

ROADWAY TRAFFIC AREA BETWEEN EXTERIOR GIRDERS.

SYM. ABOUT ℄ JOINT UNLESS OTHERWISE SHOWN OR NOTED



PART PLAN



SECTION A-A

NOTES

ONE FIELD SPLICE PERMITTED IN STEEL EXTRUSIONS. IF USED, DETAILS SHALL BE SUBMITTED FOR APPROVAL. NO SPLICING PERMITTED IN NEOPRENE STRIP SEAL.

AFTER FABRICATION, BUT BEFORE SHIPMENT, STRAIGHTEN STEEL EXTRUSIONS SUCH THAT THEY SHALL BE FREE FROM WARP, TWIST & SWEEP.

ANCHOR SYSTEM #8 & #9 SHALL CONFORM TO ASTM A307 & SHALL BE GALV. IN ACCORDANCE WITH ASTM A153 CLASS C & D, L24 MILS. MIN.

STRIP SEAL EXPANSION JOINT ASSEMBLY, INCLUDING ANCHOR STUDS & HARDWARE WILL BE PAID FOR AT THE LUMP SUM PRICE BID FOR "EXPANSION DEVICE"

AFTER FABRICATION, SAND BLAST CLEAN STEEL EXTRUSION SURFACES TO SSPC SP.10. SAND BLAST CLEAN ANCHORAGE COMPONENTS TO SSPC SP.6. PRIME ALL SURFACES INCLUDING ANCHORAGE COMPONENTS WITH 3 MILS OF ORGANIC ZINC RICH PRIMER.

FABRICATOR SHALL PROVIDE MEANS OF KEEPING COATED EXTRUSIONS CLEAN DURING SHIPMENT AND PRIOR TO APPLYING LUBRICANT ADHESIVE NEOPRENE GLAND INSTALLATION.

MATERIAL FOR #2A #6 SHALL CONFORM TO ASTM A36 STEEL. MATERIAL SHALL BE FLAME CUT OR SHEARED. REMOVE ALL SLAG OR SHEARED EDGES BY GRINDING TO A SMOOTH UNIFORM SQUARE SURFACE. PRIOR TO BENDING CHECK PLATES FOR FLATNESS TO WITHIN A TOLERANCE OF 1/16" IN ANY DIRECTION. BEND LINE MUST BE PERPENDICULAR TO PLATE GRAIN.
SANDBLAST PLATES AFTER FABRICATION IN ACCORDANCE WITH SSPC SP.#6 IF GALVANIZING OR SSPC SP.#10 IF PAINTING. THE PLATES SHALL BE HOT DIPPED GALVANIZED OR SHOP PRIMED WITH 3 MILS. MINIMUM OF ZINC RICH PRIMER.

NO.	DATE	REVISION	BY

STATE OF WISCONSIN
DEPARTMENT OF TRANSPORTATION
DIVISION OF HIGHWAYS

STRUCTURE B-51-79

CONST. SPEC.	DRAWN BY	PLANS CHKD.
1989	DHB	KOK

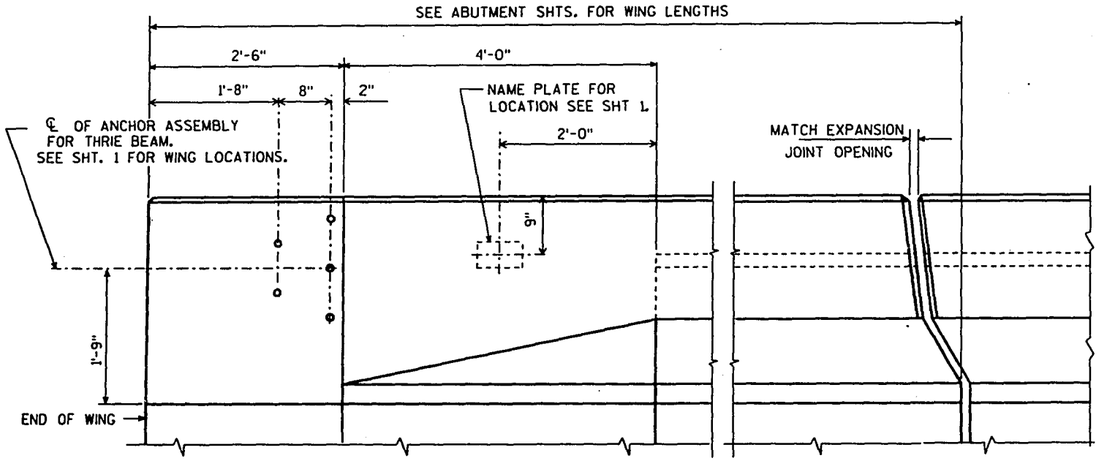
EXPANSION DEVICE

SHEET 17

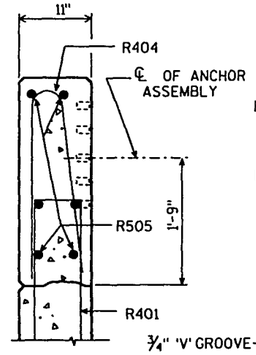
SCALE 1

BR_B5179-79JT.DGN

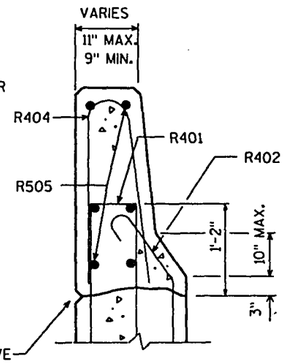
STATE PROJECT NUMBER	SHEET NO.
	8.16



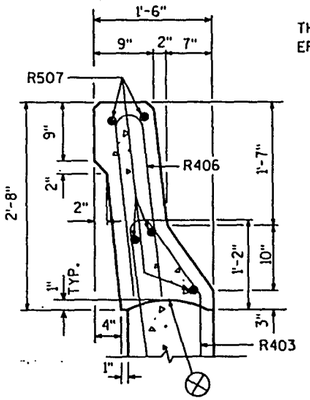
INSIDE ELEVATION



SECTION A



SECTION B



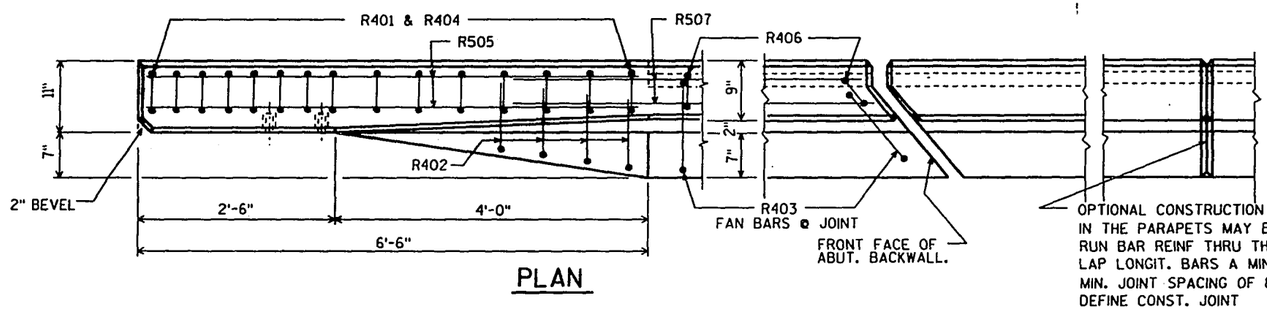
SECTION C

BILL OF BARS

FOR ABUTMENT PARAPETS

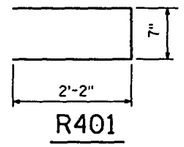
THE FIRST DIGIT OF THE BAR MARK SIGNIFIES THE BAR SIZE.
EPOXY COAT ALL PARAPET REINF.

BAR MARK	NO. REQ'D. SOUTH ABUT.	NO. REQ'D. NORTH ABUT.	LENGTH	BENT	LOCATION
R401	30	30	4-9	X	WINGS STIRRUPS
R402	8	8	3-1	X	WINGS
R403	24	24	4-9	X	WINGS STIRRUPS
R404	30	30	4-9	X	WINGS
R505	12	12	6-2		WINGS
R406	24	24	4-10	X	WINGS
R507	5	5	7-0		WINGS 1 & 3
R508	5	5	13-6		WINGS 2 & 4

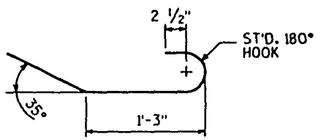


PLAN

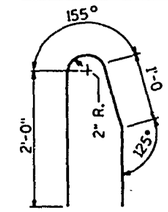
OPTIONAL CONSTRUCTION JOINTS IN THE PARAPETS MAY BE USED. RUN BAR REINF THRU THE JOINT. LAP LONGIT. BARS A MIN. OF 1'-9". MIN. JOINT SPACING OF 80'-0". DEFINE CONST. JOINT WITH A 1" 'V' GROOVE.



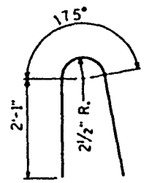
R401



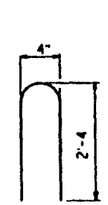
R402



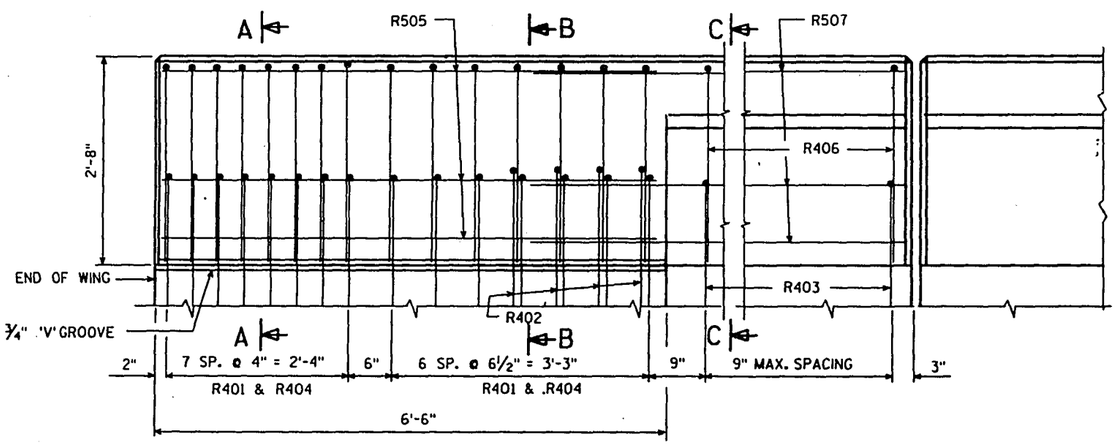
R403



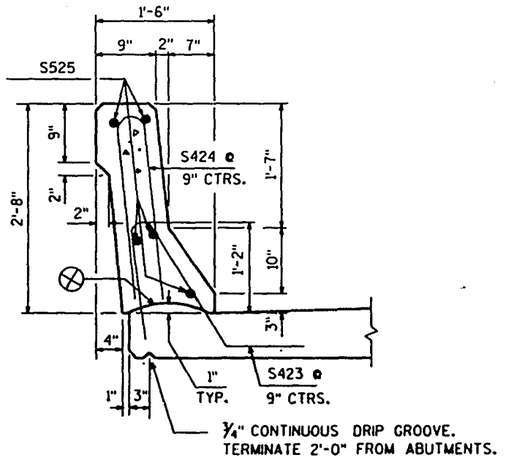
R404



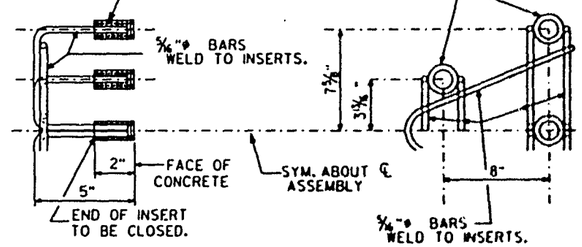
R406



OUTSIDE ELEVATION



SECTION THRU PARAPET ON BRIDGE



DETAIL OF ANCHOR ASSEMBLY

NOTE: HEX. HEAD CAP SCREWS & WASHERS TO BE GALVANIZED IN ACCORDANCE WITH AASHTO M232 CLASS C.

⊗ CONST. JOINT - STRIKE OFF AS SHOWN.

NO.	DATE	REVISION	BY

STATE OF WISCONSIN
DEPARTMENT OF TRANSPORTATION
DIVISION OF HIGHWAYS

STRUCTURE B-51-79

CONST. SPEC. 1989	DRAWN BY DHB	PLANS CHK. ROK

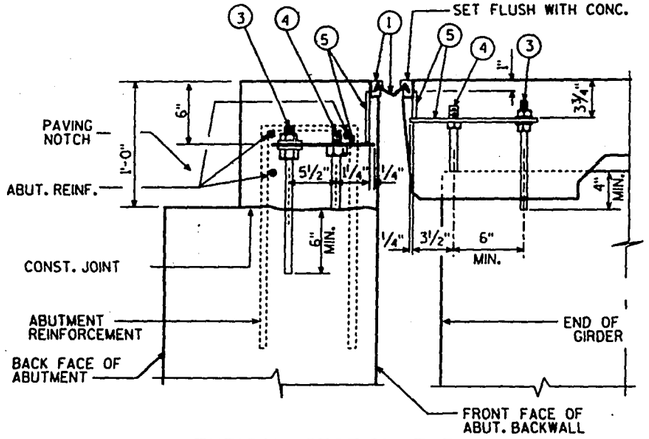
SLOPED FACE PARAPET "B"

SHEET 18

BR B5179:PPTB.DGN

9-92
FT 55

STATE PROJECT NUMBER	SHEET NO.
	8.15

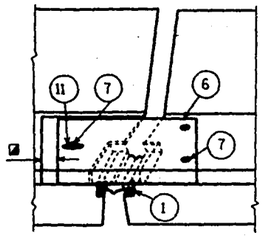


TYPICAL SECTION THRU JOINT

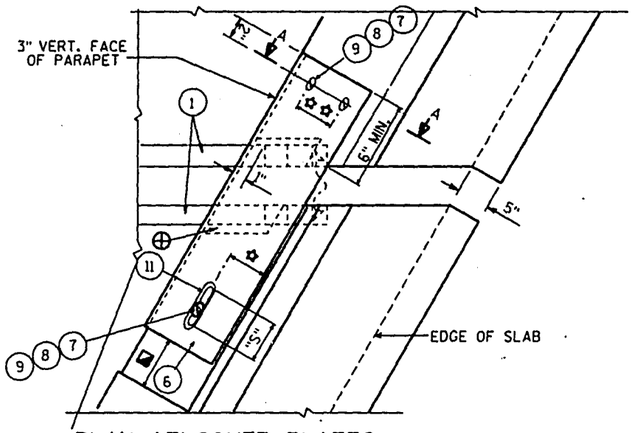
NORMAL TO ℄ SUBSTRUCTURE.

⊕ BLOCK OUT CONCRETE 2" EACH SIDE FOR JOINT OPENING

◪ JOINT OPENING DIM. ALONG SKEW PLUS ½". 'S' EQUALS 6".



VIEW OF PARAPET PLATES FROM ROADWAY



PLAN AT COVER PLATES

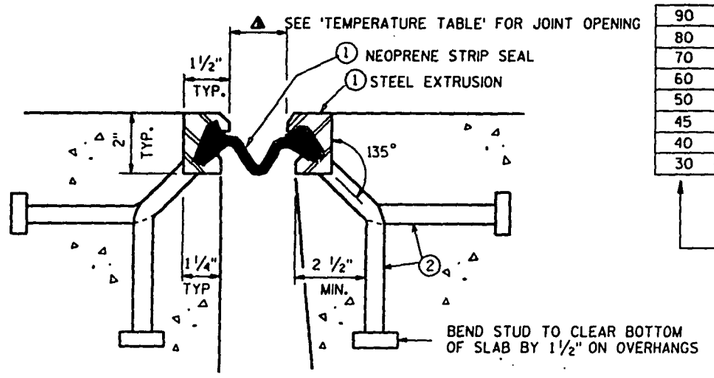
DIRECTION OF TRAFFIC DETERMINES THE ORENTATION OF PLATE "6

TEMPERATURE TABLE

90	2⅛
80	2⅛
70	2⅛
60	2¼
50	2¼"
45	2¼
40	2¼
30	2¼

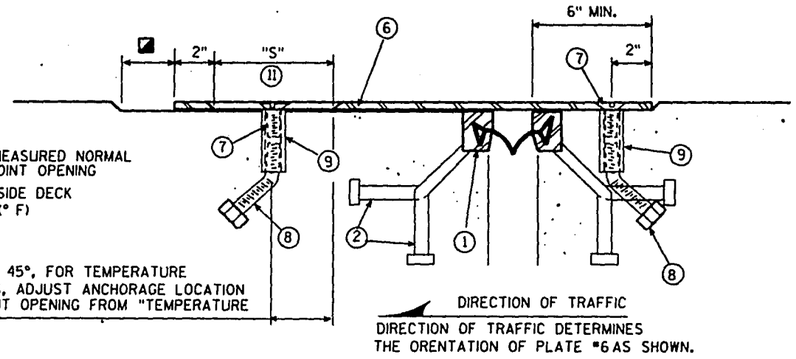
▲ (IN.) MEASURED NORMAL TO JOINT OPENING

SHADED UNDERSIDE DECK TEMPERATURE (° F)



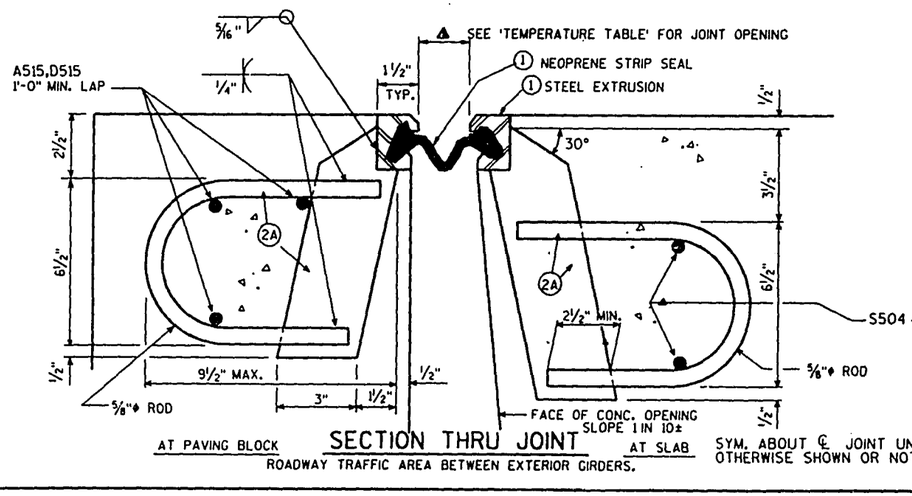
SECTION THRU JOINT

EXTERIOR GIRDER TO EDGE OF SLAB & AT PARAPETS, MEDIANS & SIDEWALKS



DIRECTION OF TRAFFIC DETERMINES THE ORENTATION OF PLATE "6 AS SHOWN.

SECTION B-B

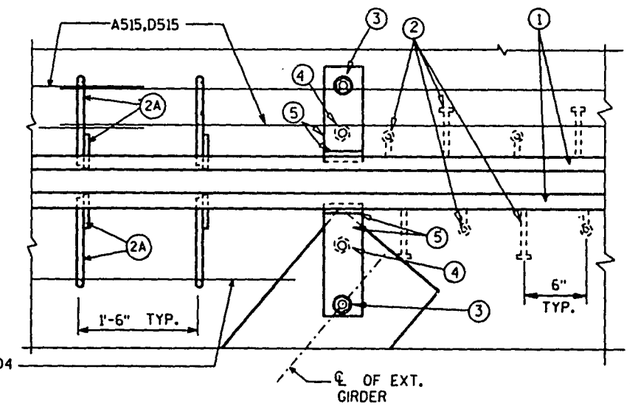


AT PAVING BLOCK — AT SLAB

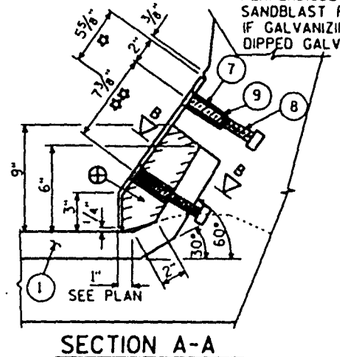
SECTION THRU JOINT

ROADWAY TRAFFIC AREA BETWEEN EXTERIOR GIRDERS.

SYM. ABOUT ℄ JOINT UNLESS OTHERWISE SHOWN OR NOTED



PART PLAN



SECTION A-A

LEGEND

1. NEOPRENE STRIP SEAL & STEEL EXTRUSIONS D.S. BROWN SSA2-400A2, LEWIS ENGINEERING W-400L. STRUCTURAL ACCESSORIES SA2-40SS OR WATSON BOWMAN A3-400SE EXTRUSIONS TO BE A.S.T.M. A36 STEEL.
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6. PLATE ⅜" X 1'-2" X (2'-0" LONG FOR SKEWS ≤ 10° TO 45° & 3'-0" LONG FOR SKEWS > 45°) WITH HOLES FOR #7 & #11. BEND AS SHOWN
7. ¾" X 1½" STAINLESS STEEL FLAT HEAD MACHINE SCREWS. RECESS 1/16" BELOW PLATE SURFACE.
8. ¾" X 4" GALV. HEX HEAD BOLT. BENT 45°.
9. ¾" X 2 ¼" GALV. THREADED COUPLING.
11. 1" X DIMENSION "S" SLOTTED CSK. HOLE FOR #7. SLOT PARALLEL TO DIRECTION OF MOVEMENT.

NOTES

ONE FIELD SPLICE PERMITTED IN STEEL EXTRUSIONS. IF USED, DETAILS SHALL BE SUBMITTED FOR APPROVAL. NO SPLICING PERMITTED IN NEOPRENE STRIP SEAL.

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AFTER FABRICATION, SAND BLAST CLEAN STEEL EXTRUSION SURFACES TO SSPC SP.10. SAND BLAST CLEAN ANCHORAGE COMPONENTS TO SSPC SP.6. PRIME ALL SURFACES INCLUDING ANCHORAGE COMPONENTS WITH 3 MILS OF ORGANIC ZINC RICH PRIMER.

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SANDBLAST PLATES AFTER FABRICATION IN ACCORDANCE WITH SSPC SP.#6 IF GALVANIZING OR SSPC SP.#10 IF PAINTING. THE PLATES SHALL BE HOT DIPPED GALVANIZED OR SHOP PRIMED WITH 3 MILS. MINIMUM OF ZINC RICH PRIMER.

NO.	DATE	REVISION	BY

STATE OF WISCONSIN
DEPARTMENT OF TRANSPORTATION
DIVISION OF HIGHWAYS

STRUCTURE B-51-79

CONST. SPEC.	DRAWN BY	PLANS CHKD.
1989	DMB	

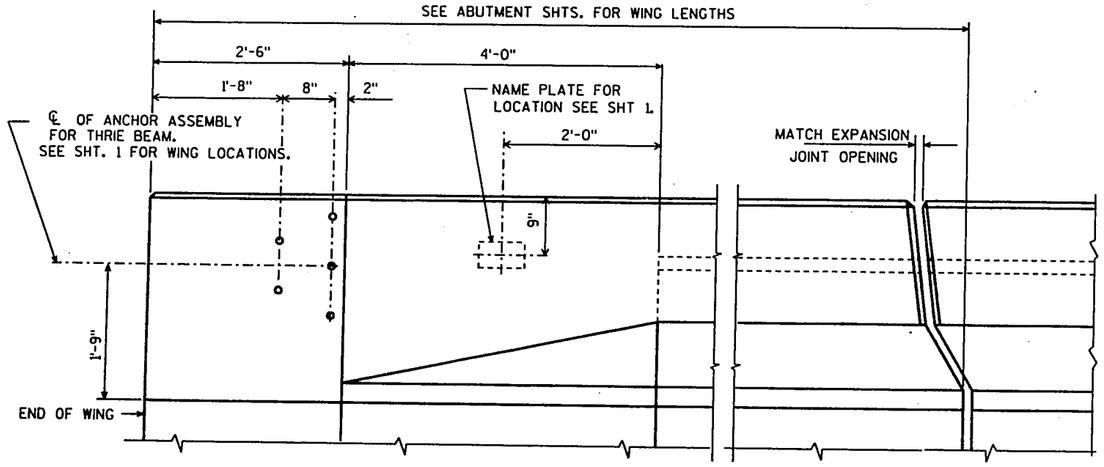
EXPANSION DEVICE

SHEET 17

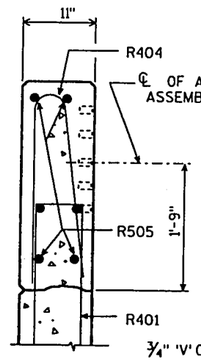
SCALE 1

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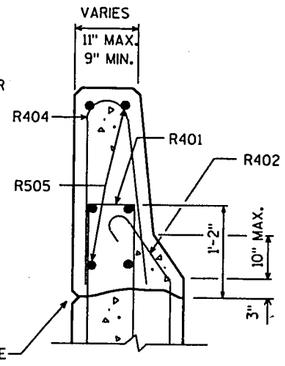
STATE PROJECT NUMBER	SHEET NO.
	8.10



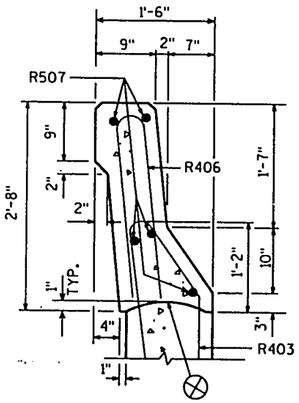
INSIDE ELEVATION



SECTION A



SECTION B



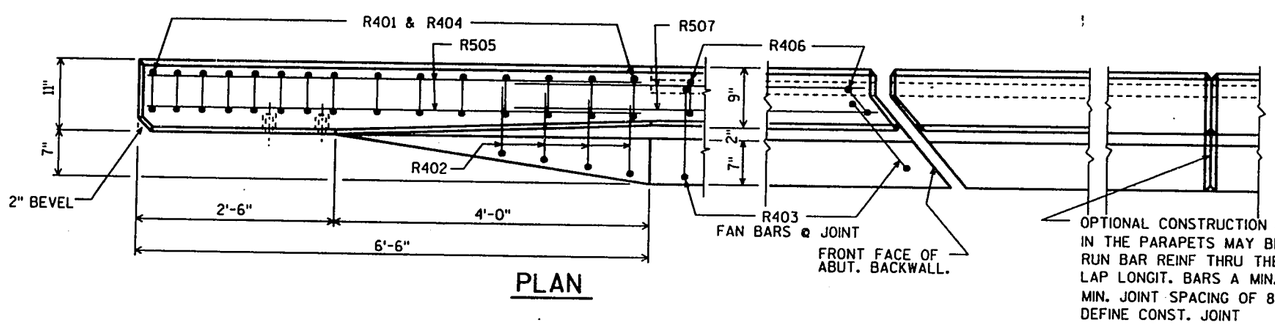
SECTION C

BILL OF BARS

FOR ABUTMENT PARAPETS

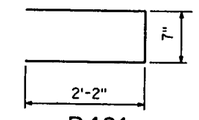
THE FIRST DIGIT OF THE BAR MARK SIGNIFIES THE BAR SIZE.
EPOXY COAT ALL PARAPET REINF.

BAR MARK	NO. REQ'D. SOUTH ABUT.	NO. REQ'D. NORTH ABUT.	LENGTH	BENT	LOCATION
R401	30	30	4-9	X	WINGS STIRRUPS
R402	8	8	3-1	X	WINGS
R403	24	24	4-9	X	WINGS STIRRUPS
R404	30	30	4-9	X	WINGS
R505	12	12	6-2		WINGS
R406	24	24	4-10	X	WINGS
R507	5	5	7-0		WINGS 1 & 3
R508	5	5	13-6		WINGS 2 & 4

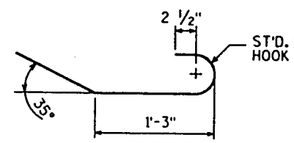


PLAN

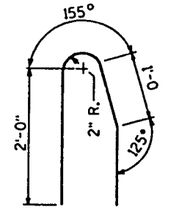
OPTIONAL CONSTRUCTION JOINTS IN THE PARAPETS MAY BE USED. RUN BAR REINF THRU THE JOINT. LAP LONGIT. BARS A MIN. OF 1'-9". MIN. JOINT SPACING OF 80'-0". DEFINE CONST. JOINT WITH A 1" 'V' GROOVE.



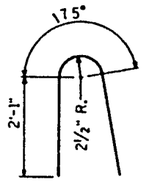
R401



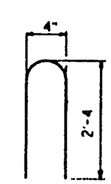
R402



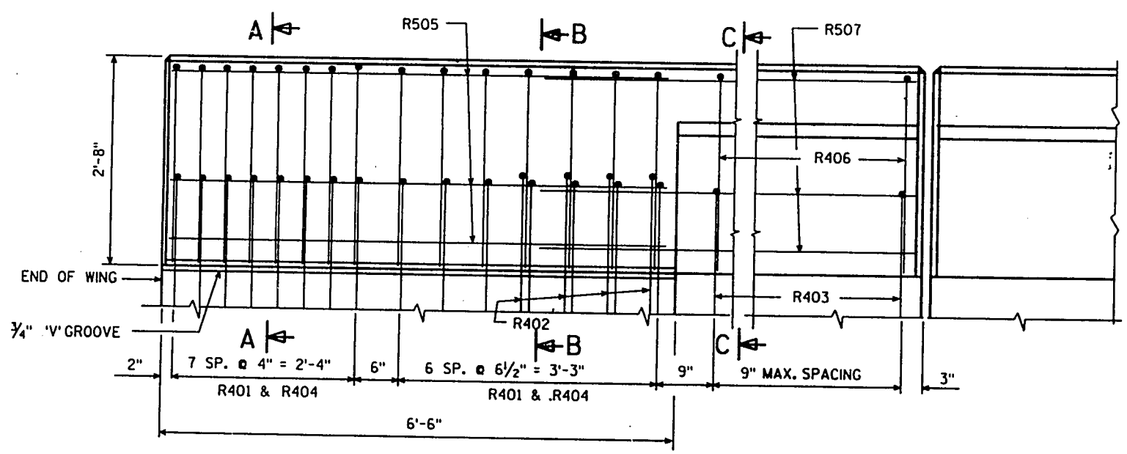
R403



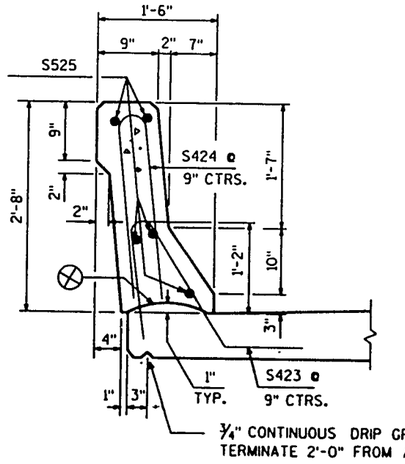
R404



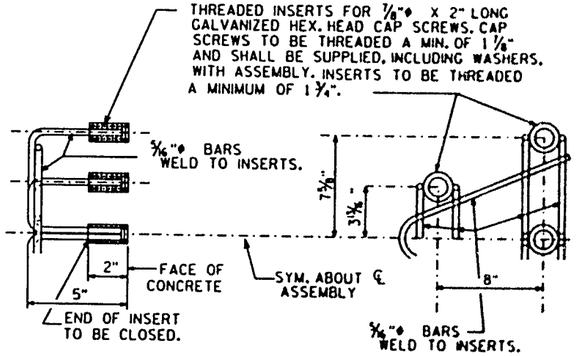
R406



OUTSIDE ELEVATION



SECTION THRU PARAPET ON BRIDGE



DETAIL OF ANCHOR ASSEMBLY

NOTE: HEX. HEAD CAP SCREWS & WASHERS TO BE GALVANIZED IN ACCORDANCE WITH AASHTO M232 CLASS C.

⊗ CONST. JOINT - STRIKE OFF AS SHOWN.

NO.	DATE	REVISION	BY

STATE OF WISCONSIN
DEPARTMENT OF TRANSPORTATION
DIVISION OF HIGHWAYS

STRUCTURE B-51-79

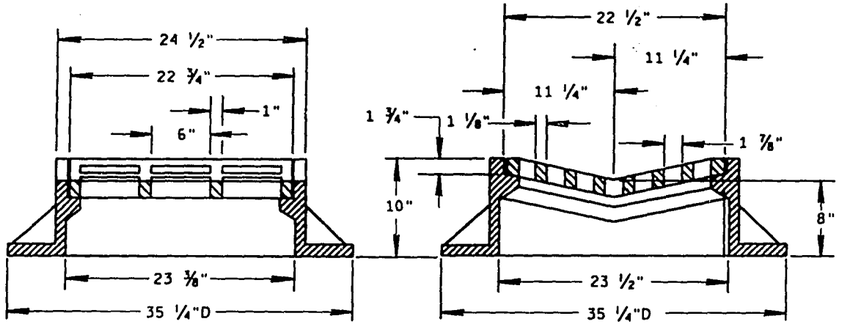
CONST. SPEC. 1989	DRAWN BY DMB	PLANS CK'D. KDK

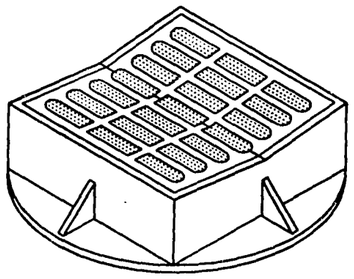
SLOPED FACE PARAPET "B"

SHEET 18

BP B5179:PPTB.DGN

9-92
FT 55

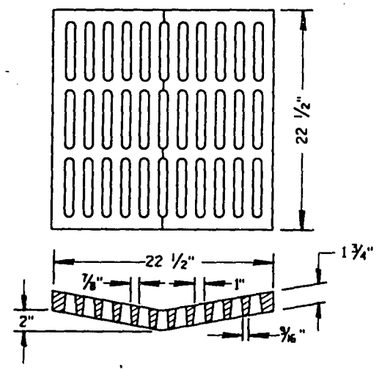




TYPE "B"

(APPROXIMATE WEIGHT 395 LBS.)

FRAME..... 285 LBS.
GRATE..... 110 LBS.

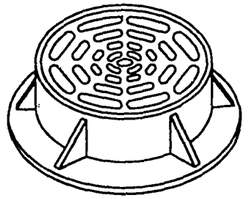


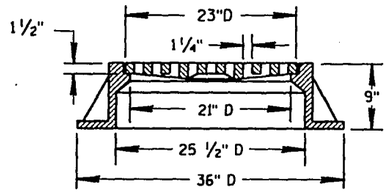
ALTERNATIVE GRATE FOR FOR TYPE "B" COVER

(APPROXIMATE GRATE WEIGHT 125 LBS.)
GRATE.....125 LBS.

USE WHERE PEDESTRIAN OR BICYCLE TRAFFIC IS POSSIBLE.

NOTE AS TYPE B-A ON THE DRAINAGE TABLE





TYPE "C"

(APPROXIMATE WEIGHT 340 LBS.)

FRAME..... 235 LBS.
GRATE..... 105 LBS.

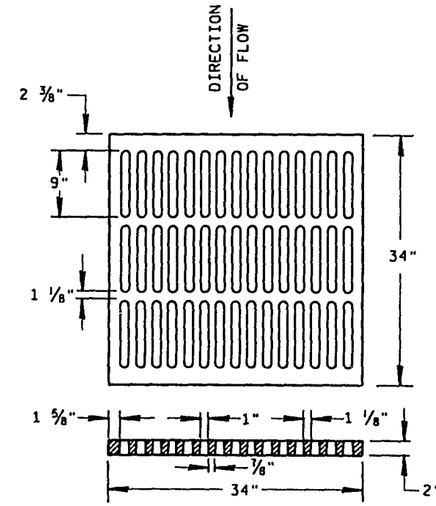
GENERAL NOTES

DETAILS OF CONSTRUCTION, MATERIALS AND WORKMANSHIP NOT SHOWN ON THIS DRAWING SHALL CONFORM TO THE PERTINENT REQUIREMENTS OF THE STANDARD SPECIFICATIONS AND THE APPLICABLE SPECIAL PROVISIONS.

DETAIL DRAWINGS FOR PROPOSED ALTERNATE DESIGNS FOR CATCH BASIN, MANHOLE AND INLET COVERS SHALL BE SUBMITTED TO THE ENGINEER FOR APPROVAL PROVIDING THAT SUCH ALTERNATE DESIGNS MAKE PROVISION FOR EQUIVALENT CAPACITY AND STRENGTH.

ROUND FRAMES AND COVERS SHALL HAVE CONTINUOUSLY MACHINED BEARING SURFACES TO PREVENT ROCKING AND RATTLING.

THE ACTUAL WEIGHT OF COVERS MAY VARY WITHIN 5 PERCENT, PLUS OR MINUS, OF THE APPROXIMATE WEIGHT.

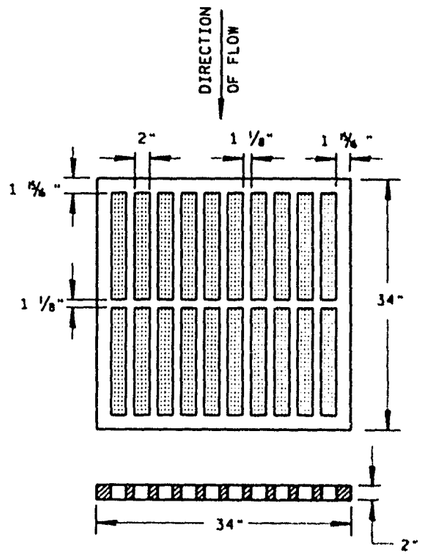


ALTERNATIVE TYPE "MS"

(APPROXIMATE GRATE WEIGHT 365 LBS.)
GRATE.....365 LBS.

USE WHERE PEDESTRIAN OR BICYCLE TRAFFIC IS PERMITTED

NOTE AS TYPE MS-A ON THE DRAINAGE TABLE

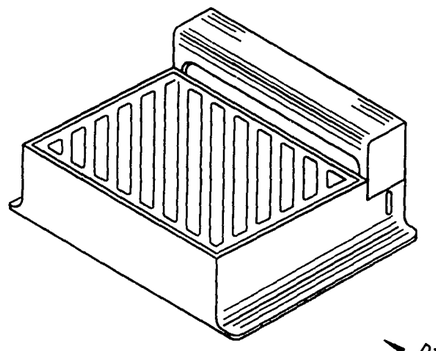


TYPE "MS"

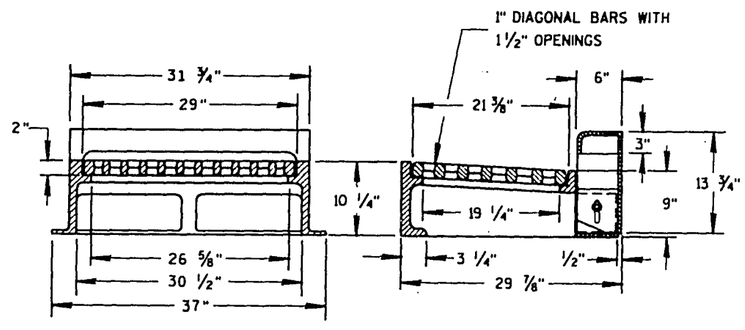
(APPROXIMATE GRATE WEIGHT 270 LBS.)
GRATE.....270 LBS.

USE ON FREEWAYS AND EXPRESSWAYS

NOTE AS TYPE MS ON DRAINAGE TABLE



DIAGONAL SLOTS, SHALL BE ORIENTED TO THE DIRECTION OF FLOW AS ILLUSTRATED. GRATES ARE MANUFACTURED TO BE REVERSIBLE.



NOTE: CURB BOX HEIGHT ADJUSTABLE 6" TO 9"

TYPE "WM"

(APPROXIMATE WEIGHT 670 LBS.)

FRAME..... 360 LBS.
GRATE..... 160 LBS.
CURB BOX..... 150 LBS.

INLET COVERS

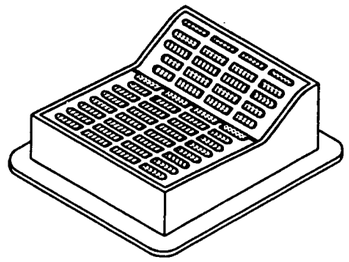
STATE OF WISCONSIN
DEPARTMENT OF TRANSPORTATION

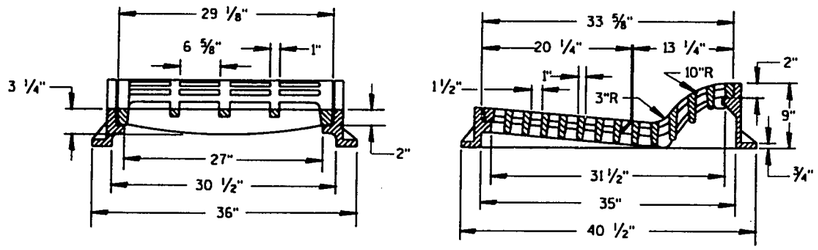
APPROVED
1/27/93
DATE
STATE DESIGN ENGINEER FOR HWYS

FHWA

S.D.D. 8 A 5-9b

S.D.D. 8 A 5-9b



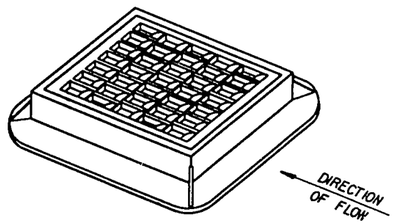


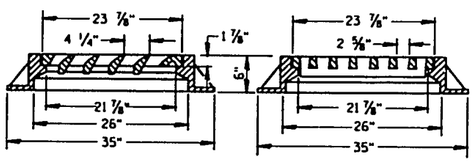
TYPE "F"

(APPROXIMATE WEIGHT 830 LBS.)

FRAME.....485 LBS.
GRATE.....165 LBS.
GRATE.....180 LBS.

USE WITH CONCRETE CURB & GUTTER, 36 INCH.

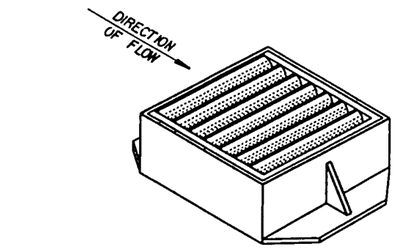


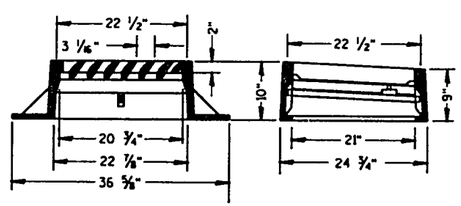


TYPE "S"

(APPROXIMATE WEIGHT 400 LBS.)

FRAME.....245 LBS.
GRATE.....155 LBS.



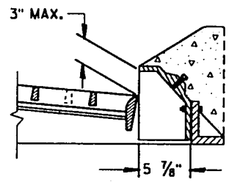


TYPE "V"

(APPROXIMATE WEIGHT 405 LBS.)

FRAME.....270 LBS.
GRATE.....130 LBS.
SAFETY BAR.....5 LBS.

S.D.D. 8 A 5-9c



ALTERNATIVE CURB BOX FOR TYPE "HM" COVER

(APPROXIMATE WEIGHT 60 LBS.)

CURB BOX.....60 LBS.

USE WITH TYPES G & J CONCRETE CURB & GUTTER, 30 INCH

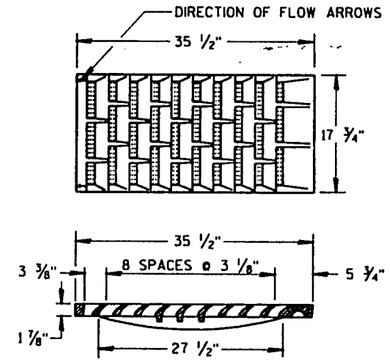
NOTE AS TYPE HM-GJ ON DRAINAGE TABLE

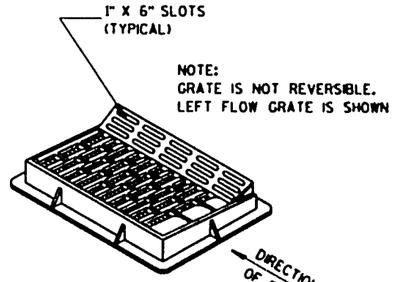
GENERAL NOTES

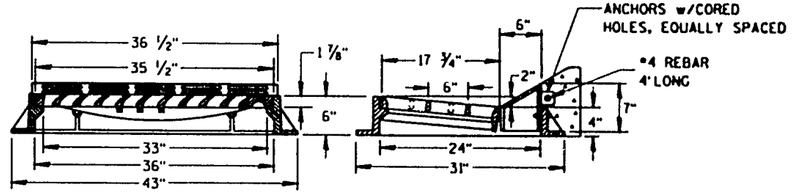
DETAILS OF CONSTRUCTION, MATERIALS AND WORKMANSHIP NOT SHOWN ON THIS DRAWING SHALL CONFORM TO THE PERTINENT REQUIREMENTS OF THE STANDARD SPECIFICATIONS AND THE APPLICABLE SPECIAL PROVISIONS.

DETAIL DRAWINGS FOR PROPOSED ALTERNATE DESIGNS FOR INLET COVERS SHALL BE SUBMITTED TO THE ENGINEER FOR APPROVAL PROVIDING THAT SUCH ALTERNATE DESIGNS MAKE PROVISION FOR EQUIVALENT CAPACITY AND STRENGTH.

THE ACTUAL WEIGHT OF COVERS MAY VARY WITHIN 5 PERCENT, PLUS OR MINUS, OF THE APPROXIMATE WEIGHT.







TYPE "HM"

(APPROXIMATE WEIGHT 420 LBS.)

FRAME.....195 LBS.
GRATE.....135 LBS.
CURB BOX.....90 LBS.

USE WITH CONCRETE CURB & GUTTER, 36 INCH.

NOTE:
SPECIAL GRATE FOR THE TYPE "H" COVER MAY ALSO BE USED FOR THE TYPE "HM" COVER
NOTE AS TYPE HM-S ON DRAINAGE TABLE

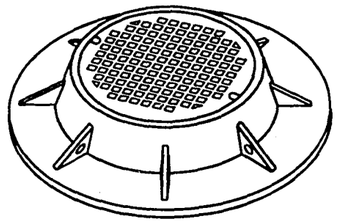
INLET COVERS

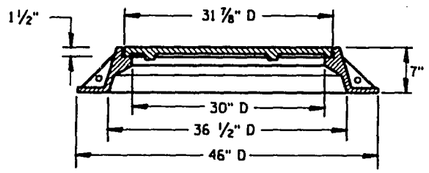
STATE OF WISCONSIN
DEPARTMENT OF TRANSPORTATION

APPROVED
1/25/91
DATE

STATE DESIGN ENGINEER FOR HWYS

FHWA

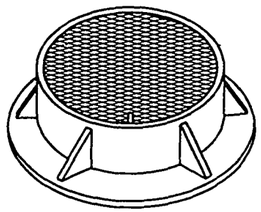


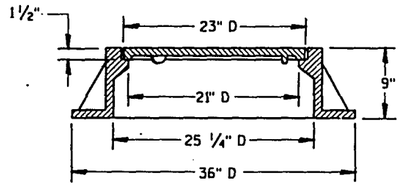


TYPE "K"

(APPROXIMATE WEIGHT 535 LBS.)

FRAME.....330 LBS.
LID.....205 LBS.





TYPE "J"

(APPROXIMATE WEIGHT 350 LBS.)

FRAME.....235 LBS.
LID.....115 LBS.

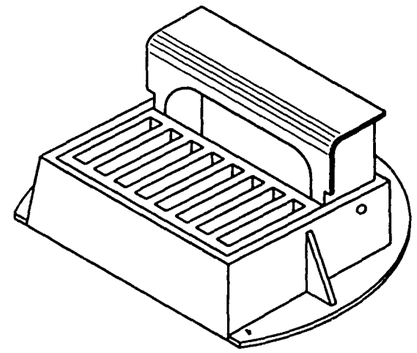
GENERAL NOTES

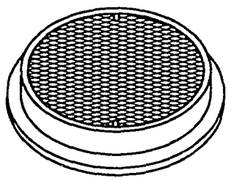
DETAILS OF CONSTRUCTION, MATERIALS AND WORKMANSHIP NOT SHOWN ON THIS DRAWING SHALL CONFORM TO THE PERTINENT REQUIREMENTS OF THE STANDARD SPECIFICATIONS AND THE APPLICABLE SPECIAL PROVISIONS.

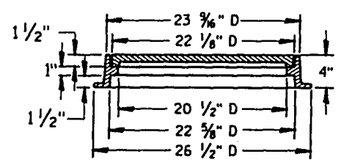
DETAIL DRAWINGS FOR PROPOSED ALTERNATE DESIGNS FOR MANHOLE COVERS SHALL BE SUBMITTED TO THE ENGINEER FOR APPROVAL PROVIDING THAT SUCH ALTERNATE DESIGNS MAKE PROVISION FOR EQUIVALENT CAPACITY AND STRENGTH.

ROUND FRAMES AND COVERS SHALL HAVE CONTINUOUSLY MACHINED BEARING SURFACES TO PREVENT ROCKING AND RATTLING.

THE ACTUAL WEIGHT OF COVERS MAY VARY WITHIN 5 PERCENT, PLUS OR MINUS, OF THE APPROXIMATE WEIGHT.



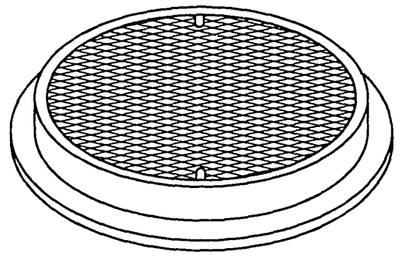


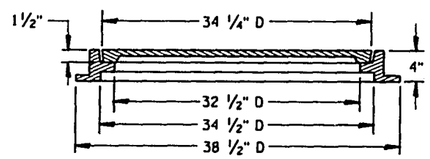


TYPE "L"

(APPROXIMATE WEIGHT 145 LBS.)

FRAME.....75*
LID.....70*



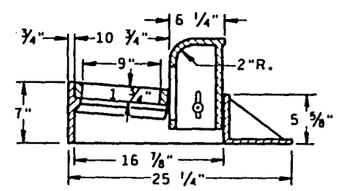


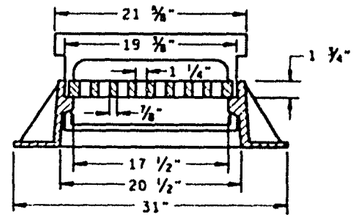
TYPE "M"

(APPROXIMATE WEIGHT 385 LBS.)

FRAME.....125*
LID.....260*

CURB BOX ADJUSTABLE 4" TO 10"





INLET COVER TYPE "Z"

(APPROXIMATE WEIGHT 280 LBS.)

FRAME.....145 LBS.
GRATE.....50 LBS.
CURB BOX.....85 LBS.

INLET AND MANHOLE COVERS

STATE OF WISCONSIN
DEPARTMENT OF TRANSPORTATION

APPROVED
1/25/93
DATE

STATE DESIGN ENGINEER FOR HBIS

FHWA

S.D.D. 8 A 5-9d

S.D.D. 8 A 5-9d

GENERAL NOTES

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

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

All drainage structures are designated on the plans as "Manholes 1-C", "Catch Basins 1-B", "Inlets 3-H", etc. The first digit designates the masonry portion of the structure, and the following letter designates the type of cover to be used to comprise the complete unit.

Precast Reinforced Bases shall be placed on a bed of material at least 6 inches in depth, which meets the requirements for Granular Backfill. This bedding shall be compacted and provide uniform support for the entire area of the base.

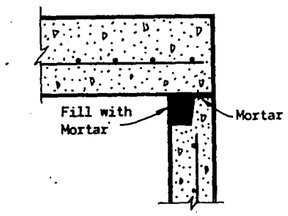
Steps meeting the following requirements shall be installed in all structures over 5 feet in depth: 16 inch C-C maximum spacing; project a minimum clear distance of 4 inches from the wall at the point of embedment; minimum length of 10 inches; minimum wall embedment of 3 inches; and be capable of supporting a concentrated load of 300 lbs. Ferrous metal steps not painted or treated to resist corrosion shall have a minimum cross sectional dimension of 1 inch.

Solid Aluminum steps shall have a minimum cross sectional dimension of 0.75 inch. Aluminum surfaces to be embedded in concrete shall be given one coat of suitable quality paint, such as zinc chromate primer conforming to federal spacification TT-P-645 or equivalent. Steps of approved Polypropylene plastic coated reinforcement bar will be acceptable.

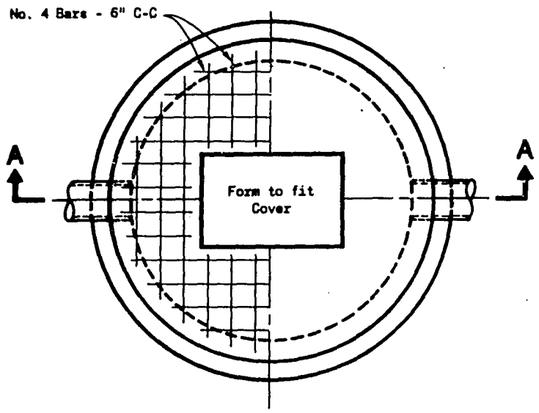
All bar steel reinforcement shall be embedded 2 inches clear unless otherwise shown or noted.

Precast Reinforced Concrete Risers shall be placed with tongue down.

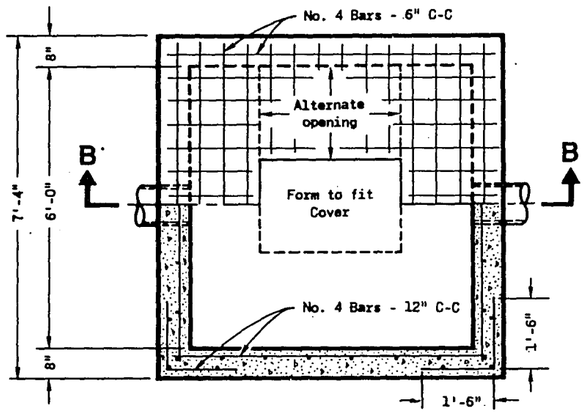
All Precast Inlet Units shall conform to the pertinent requirements of AASHTO Designation M 199.



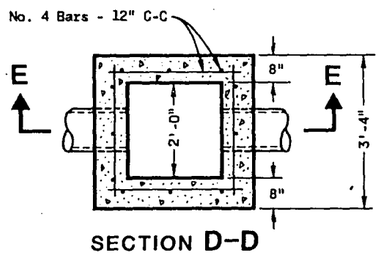
DETAIL "A"



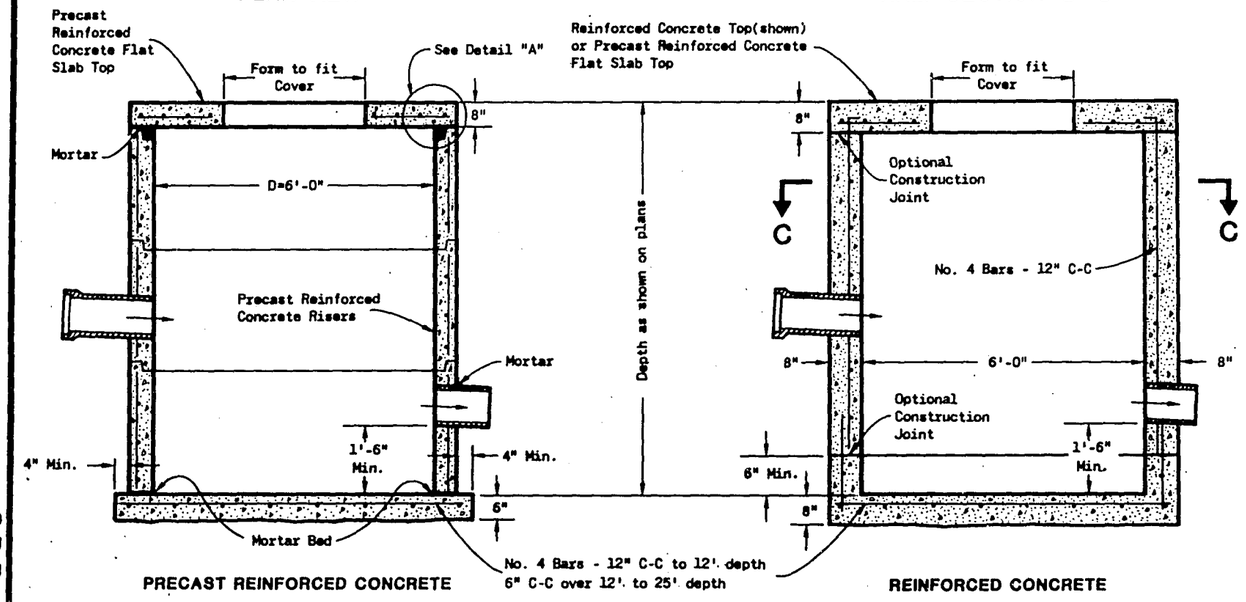
PLAN VIEW



HALF SECTION C-C



SECTION D-D



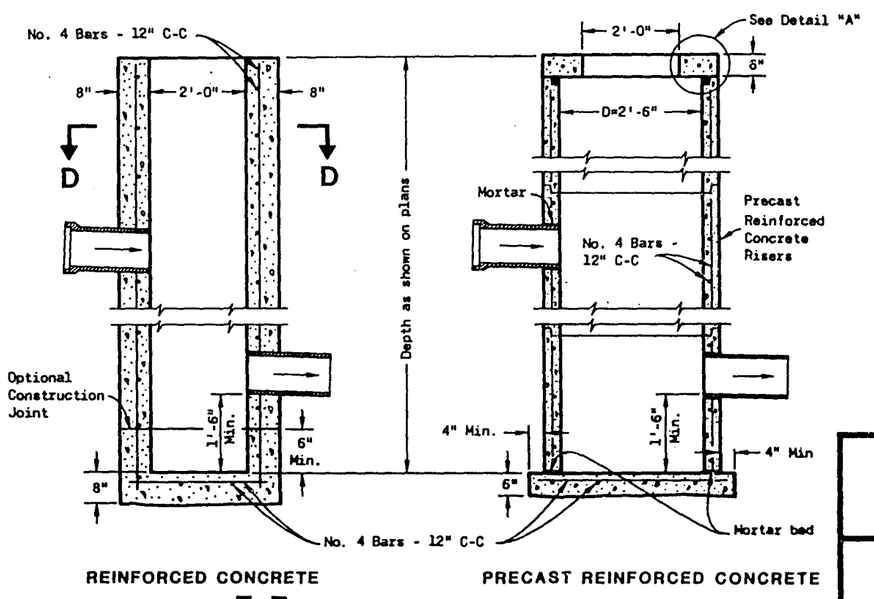
PRECAST REINFORCED CONCRETE

SECTION A-A

REINFORCED CONCRETE

SECTION B-B

CATCH BASINS TYPE 5



REINFORCED CONCRETE

SECTION E-E

PRECAST REINFORCED CONCRETE

CATCH BASINS TYPE 3

CATCH BASINS TYPE 3 & 5

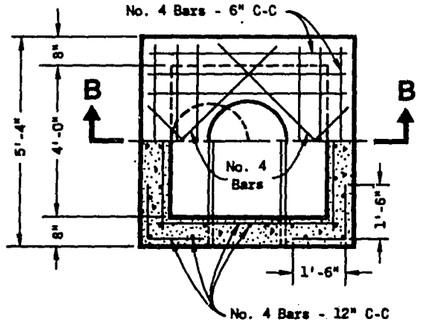
State of Wisconsin
Department of Transportation

APPROVED 4-13-82
DATE

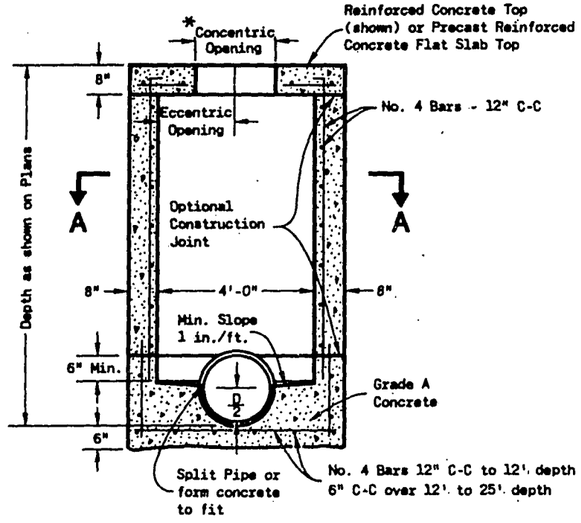
CHIEF DESIGN ENGINEER

S.D.D. 8 A 7-3

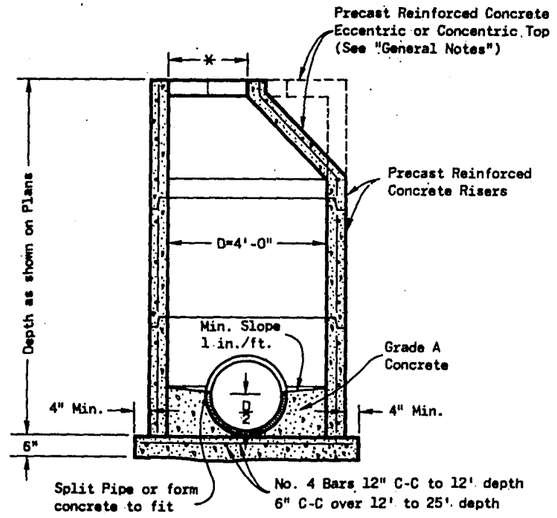
S.D.D. 8 A 7-3



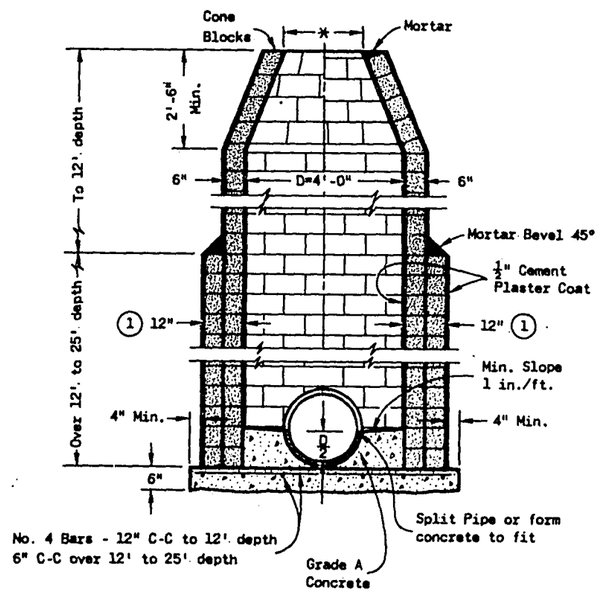
HALF SECTION A-A



SECTION B-B
REINFORCED CONCRETE



PRECAST REINFORCED CONCRETE



CONCRETE BLOCK

GENERAL NOTES

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

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

All drainage structures are designated on the plans as "Manholes 1-C", "Catch Basins 1-B", "Inlets 3-H", etc. The first digit designates the masonry portion of the structure, and the following letter designates the type of cover to be used to comprise the complete unit.

Precast Reinforced Bases shall be placed on a bed of material at least 6 inches in depth, which meets the requirements for Granular Backfill. This bedding shall be compacted and provide uniform support for the entire area of the base.

Precast Reinforced Concrete Cone Tops (Eccentric or Concentric) may be used on concrete block structures. The Cone Tops shall be installed on a bed of mortar.

Eccentric Cone Tops may be used on all structures, and Concentric Cone Tops shall be used only on structures 5 feet or less in depth, unless otherwise directed by the Engineer.

Steps meeting the following requirements shall be installed in all structures over 5 feet in depth: 16 inch C-C maximum spacing; project a minimum clear distance of 4 inches from the wall at the point of embedment; minimum length of 10 inches; minimum wall embedment of 3 inches; and be capable of supporting a concentrated load of 300 lbs. Ferrous metal steps not painted or treated to resist corrosion shall have a minimum cross sectional dimension of 1 inch.

Solid Aluminum steps shall have a minimum cross sectional dimension of 0.75 inch. Aluminum surfaces to be embedded in concrete shall be given one coat of suitable quality paint, such as zinc chromate primer conforming to Federal Specification TT-P-645 or equivalent. Steps of approved Polypropylene plastic coated reinforcement bar will be acceptable.

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

Precast Reinforced Concrete Risers may be placed with tongue up or down.

All Precast Inlet Units shall conform to the pertinent requirements of AASHTO Designation M 199.

* Use 2'-0" diameter opening with Type "C", "L" and "J" covers, or 3'-0" diameter with Type "K" and "M" covers.

(1) 2 courses 6" block.

MANHOLES TYPE 1

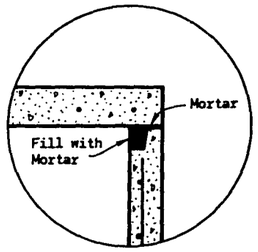
State of Wisconsin
Department of Transportation

APPROVED
4-13-82
DATE

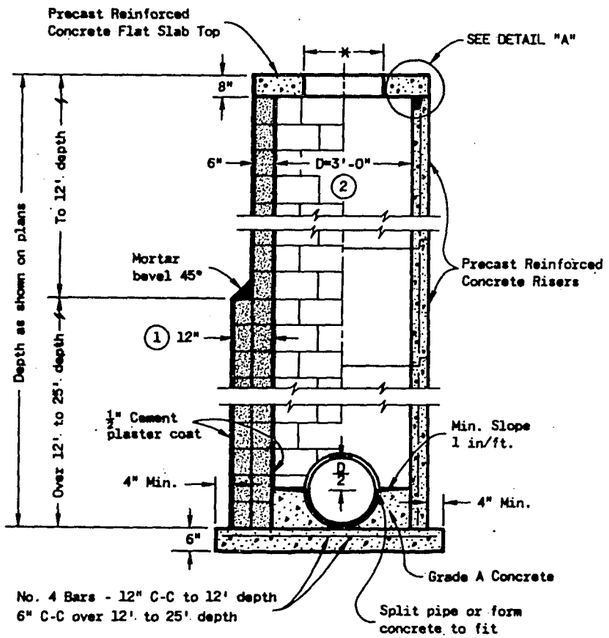
S.D.D. 8 B 6-3

MANHOLES TYPE 1

S.D.D. 8 B 6-3

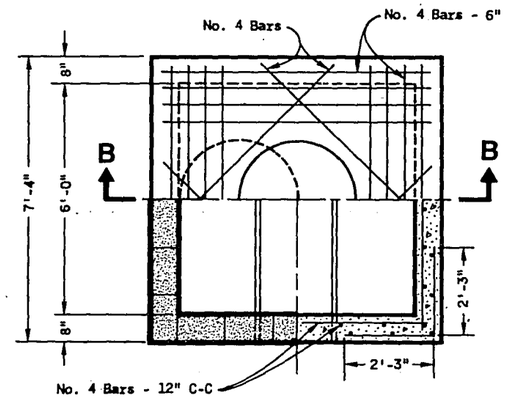


DETAIL "A"

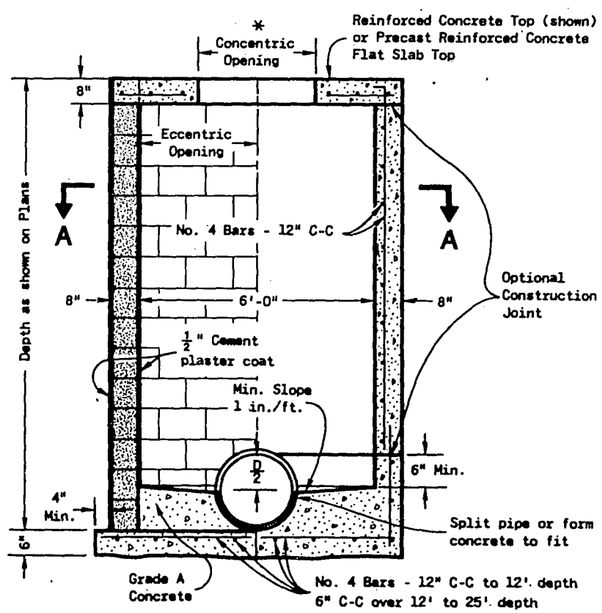


CONCRETE BLOCK | ② PRECAST REINFORCED CONCRETE

MANHOLES TYPE 2

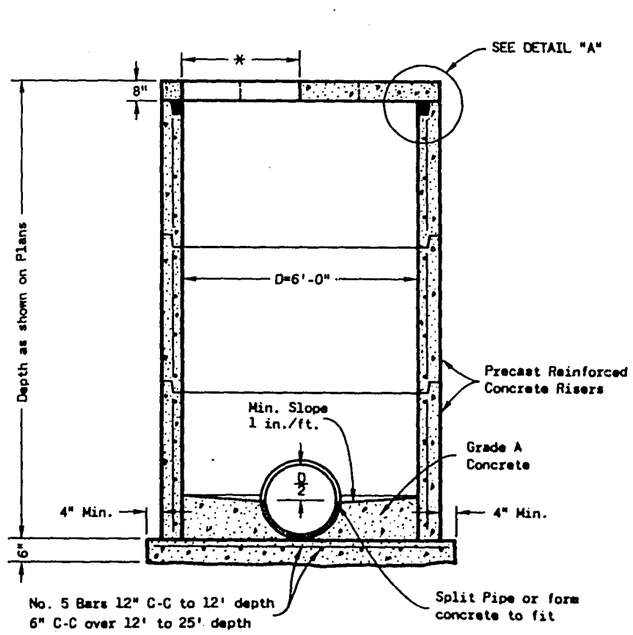


HALF SECTION A–A



SECTION B–B

CONCRETE BLOCK | REINFORCED CONCRETE



PRECAST REINFORCED CONCRETE

MANHOLES TYPE 3

GENERAL NOTES

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

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

All drainage structures are designated on the plans as "Manholes 1-C", "Catch Basins 1-B", "Inlets 3-H", etc. The first digit designates the masonry portion of the structure , and the following letter designates the type of cover to be used to comprise the complete unit.

Precast Reinforced Bases shall be placed on a bed of material at least 6" in depth, which meets the requirements for Granular Backfill. This bedding shall be compacted and provide uniform support for the entire area of the base.

Steps meeting the following requirements shall be installed in all structures over 5 feet in depth: 16 inch C-C maximum spacing; project a minimum clear distance of 4 inches from the wall at the point of embedment; minimum length of 10 inches; minimum wall embedment of 3 inches; and capable of supporting a concentrated load of 300 lbs. Ferrous metal steps not painted or treated to resist corrosion shall have a minimum cross sectional dimension of 1 inch.

Solid Aluminum steps shall have a minimum cross sectional dimension of 0.75 inch. Aluminum surfaces to be embedded in concrete shall be given one coat of suitable quality paint, such as zinc chromate primer conforming to federal specification TT-P-645 or equivalent. Steps of approved Polypropylene plastic coated reinforcement bar are acceptable.

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

Precast Reinforced Concrete Risers shall be placed with tongue down.

All precast inlet units shall conform to the pertinent requirements of AASHTO Designation M 199.

* Use 2'-0" diameter opening with type "C", "L", and "J" covers, or 3'-0" diameter with type "K" and "M" covers.

(1) 2 courses 6" block.

(2) When connecting pipes are 24" or larger the Precast Manholes may be increased to 42" diameter.

MANHOLES TYPE 2 & 3

State of Wisconsin
Department of Transportation

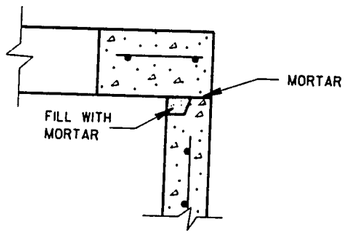
APPROVED 4-13-82
DATE

CHIEF DESIGN ENGINEER

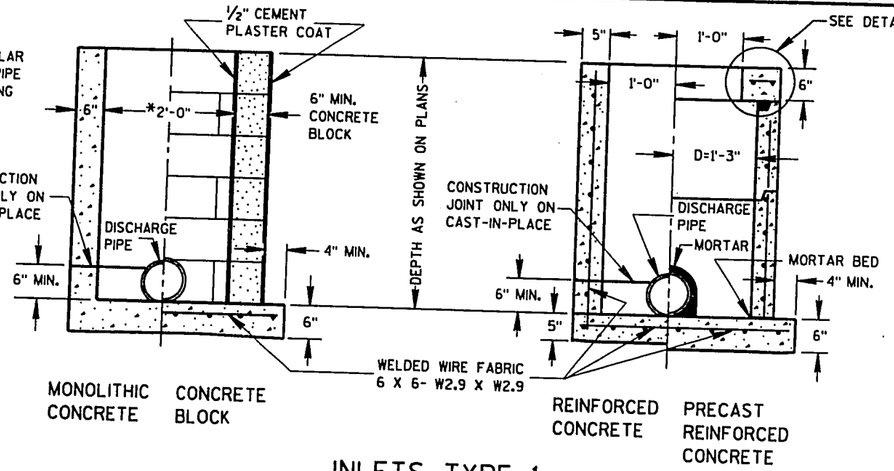
S.D.D. 8 B 7-3

S.D.D. 8 B 7-3

*SELECTION OF SQUARE OR CIRCULAR DESIGN WILL BE BASED ON THE PIPE SIZES AND THE INLET COVER BEING UTILIZED



DETAIL "A"



INLETS TYPE 1

GENERAL NOTES

DETAILS OF CONSTRUCTION, MATERIALS AND WORKMANSHIP NOT SHOWN ON THIS DRAWING SHALL CONFORM TO THE PERTINENT REQUIREMENTS OF THE STANDARD SPECIFICATIONS AND THE APPLICABLE SPECIAL PROVISIONS.

DETAILED DRAWINGS FOR PROPOSED ALTERNATE DESIGNS FOR UNDERGROUND DRAINAGE STRUCTURES SHALL BE SUBMITTED TO THE ENGINEER FOR APPROVAL PROVIDING THAT SUCH ALTERNATE DESIGNS MAKE PROVISION FOR EQUIVALENT CAPACITY AND STRENGTH.

ALL PRECAST INLET UNITS SHALL CONFORM TO THE PERTINENT REQUIREMENTS OF AASHTO DESIGNATION M 199.

ALL DRAINAGE STRUCTURES ARE DESIGNATED ON THE PLANS AS "MANHOLES 1-C", "CATCH BASINS 1-B", "INLETS 3-H", ETC. THE FIRST DIGIT DESIGNATES THE MASONRY PORTION OF THE STRUCTURE, AND THE FOLLOWING LETTER DESIGNATES THE TYPE OF COVER TO BE USED TO COMPRISE THE COMPLETE UNIT.

PRECAST REINFORCED BASES SHALL BE PLACED ON A BED OF MATERIAL AT LEAST 6 INCHES IN DEPTH, WHICH MEETS THE REQUIREMENTS OF GRANULAR BACKFILL. THIS BEDDING SHALL BE COMPACTED AND PROVIDE UNIFORM SUPPORT FOR THE ENTIRE AREA OF THE BASE.

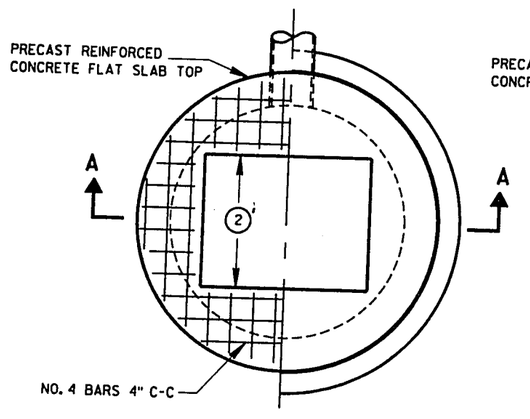
PRECAST REINFORCED CONCRETE FLAT SLAB TOPS MAY BE USED ON THE STRUCTURES. THE TOPS SHALL BE INSTALLED ON A BED OF MORTAR.

ALL BAR STEEL REINFORCEMENT SHALL BE EMBEDDED 2 INCHES CLEAR UNLESS OTHERWISE SHOWN OR NOTED.

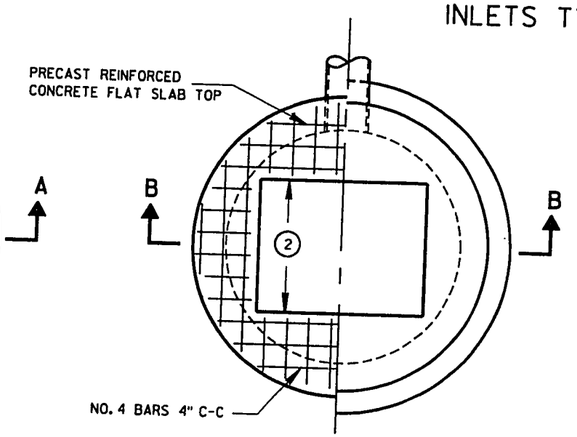
PRECAST REINFORCED CONCRETE RISERS SHALL BE PLACED WITH TONGUE DOWN.

(1) USE 2'-6" OPENING FOR TYPE 2 INLETS, 3'-0" OPENING FOR TYPE 3 INLETS, AND 2'-11" FOR TYPE 4 INLETS.

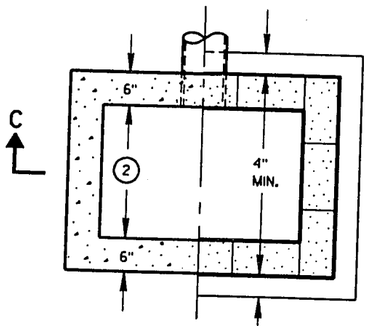
(2) USE 2'-0" OPENING FOR TYPE 1, 2 & 3 INLETS, 2'-6½" OPENING FOR TYPE 4 INLETS.



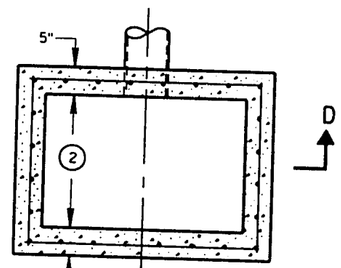
PLAN VIEW



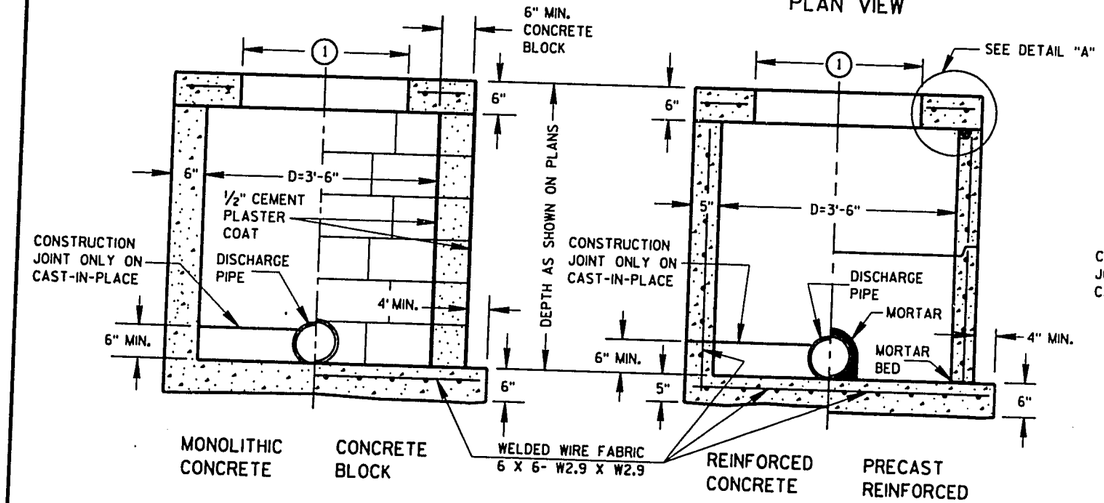
PLAN VIEW



PLAN VIEW



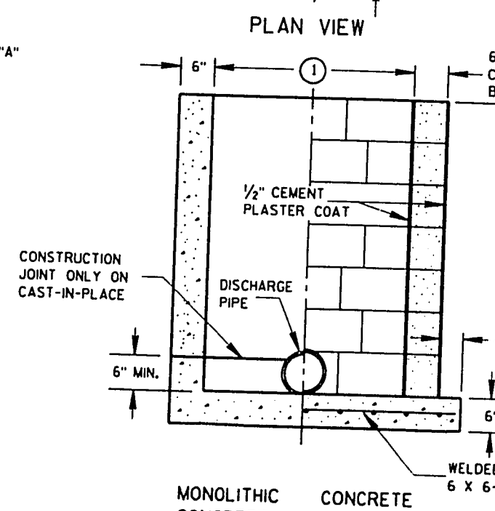
PLAN VIEW



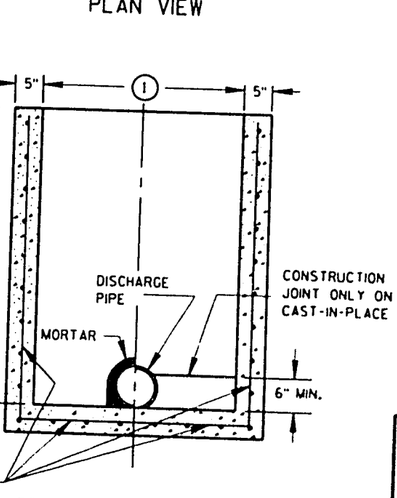
SECTION A-A

SECTION B-B

INLETS TYPE 2, 3 & 4



SECTION C-C

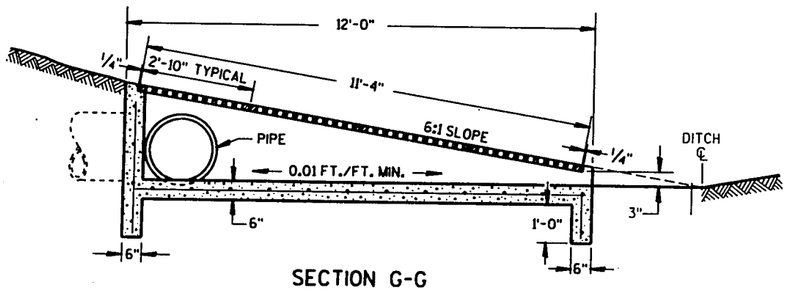


SECTION D-D

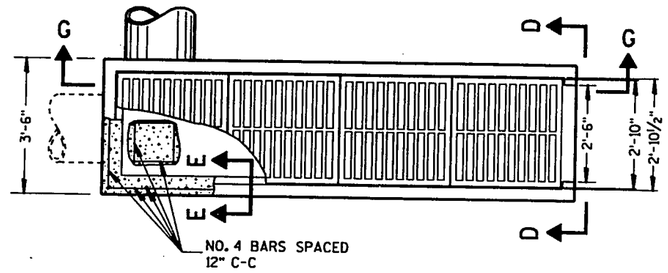
INLETS TYPE 1, 2, 3 & 4
STATE OF WISCONSIN DEPARTMENT OF TRANSPORTATION
APPROVED 8/26/94 DATE CHIEF HIGHWAY DEVELOPMENT ENGINEER

S.D.D. 8 C 1-5

S.D.D. 8 C 1-5

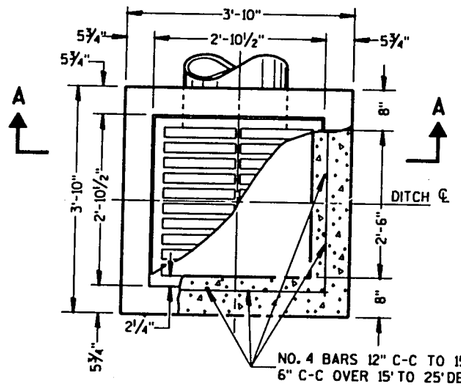


SECTION G-G

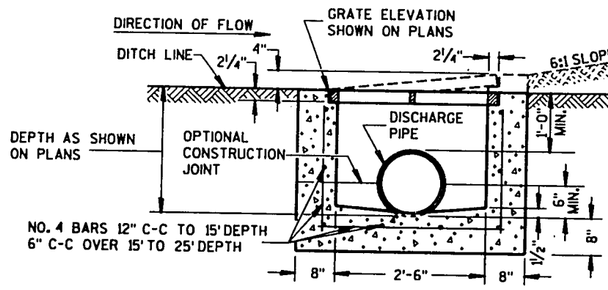


PLAN VIEW

REINFORCED CONCRETE INLET TYPE 11



PLAN VIEW



SECTION A-A

REINFORCED CONCRETE INLET TYPE 8

GENERAL NOTES

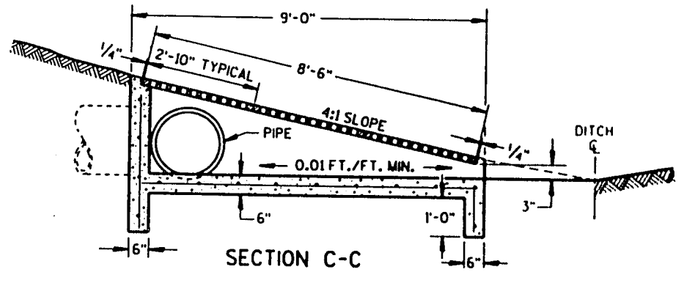
DETAILS OF CONSTRUCTION, MATERIALS AND WORKMANSHIP NOT SHOWN ON THIS DRAWING SHALL CONFORM TO THE PERTINENT REQUIREMENTS OF THE STANDARD SPECIFICATIONS AND THE APPLICABLE SPECIAL PROVISIONS.

DETAILED DRAWINGS FOR PROPOSED ALTERNATE DESIGNS FOR INLETS WHICH MAY INCLUDE PRECAST REINFORCED CONCRETE INLETS, SHALL BE SUBMITTED TO THE ENGINEER FOR APPROVAL PROVIDING THAT SUCH ALTERNATE DESIGNS MAKE PROVISION FOR EQUIVALENT CAPACITY AND STRENGTH.

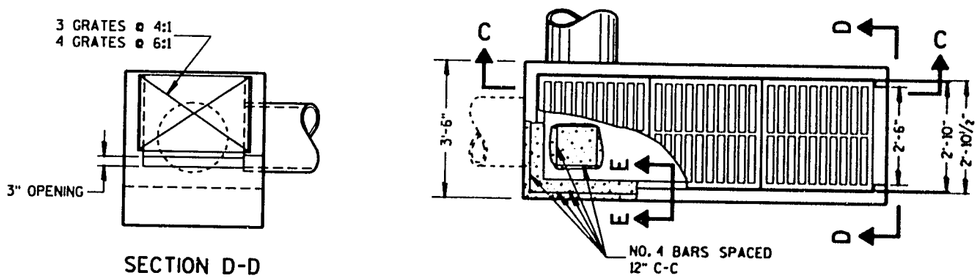
PRECAST REINFORCED CONCRETE INLET UNITS, IF USED, SHALL CONFORM TO THE REQUIREMENTS OF THE CATCH BASINS, MANHOLES AND INLETS SECTION OF THE STANDARD SPECIFICATIONS. UNLESS OTHERWISE AUTHORIZED IN WRITING BY THE ENGINEER, THE CONTRACTOR SHALL NOT ORDER AND DELIVER PRECAST INLET UNITS REQUIRED FOR THE PROJECT UNTIL A CORRECTED LIST OF SIZES IS FURNISHED BY THE ENGINEER.

ALL INLETS ARE DESIGNATED ON THE PLANS AS "INLETS, 8-MS", ETC. THIS DESIGNATION IS INTERPRETED TO MEAN THAT THE NUMBER, OR FIRST DIGIT DESIGNATES THE MASONRY PORTION OF THE STRUCTURE AND THE FOLLOWING LETTER DESIGNATES THE TYPE OF COVER OR IRON CASTING TO BE USED THEREWITH TO COMPRISE THE COMPLETE UNIT.

ALL BAR STEEL REINFORCEMENT SHALL BE EMBEDDED 2 INCHES CLEAR UNLESS OTHERWISE SHOWN OR NOTED.



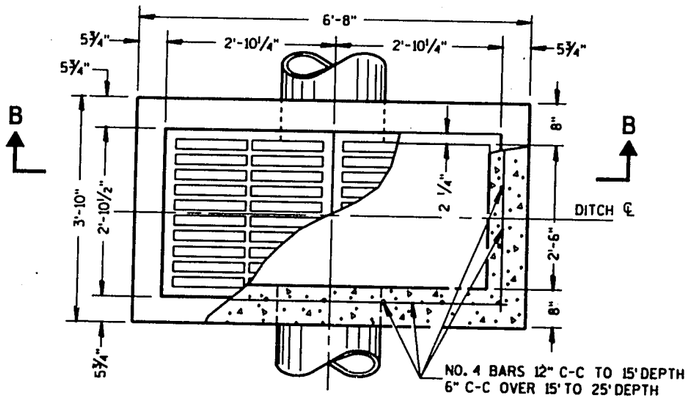
SECTION C-C



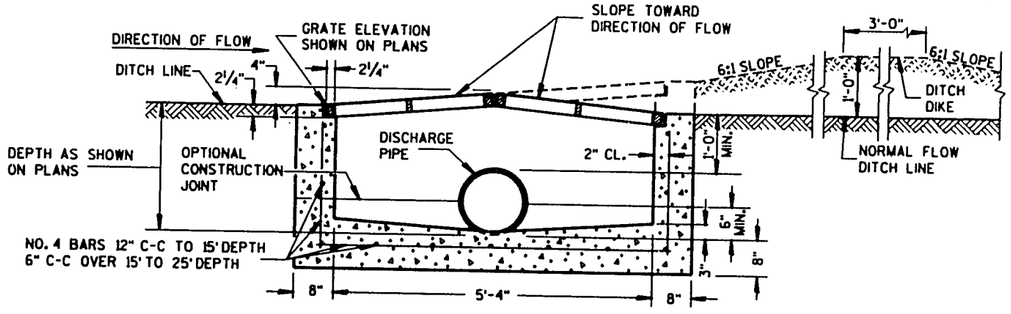
PLAN VIEW

REINFORCED CONCRETE INLET TYPE 10

SECTION D-D

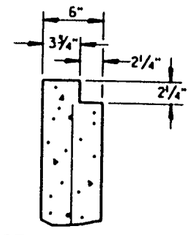


PLAN VIEW



SECTION B-B

REINFORCED CONCRETE INLET TYPE 9



SECTION E-E

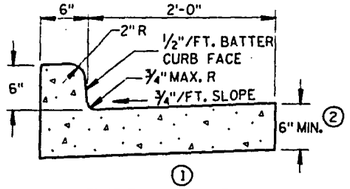
INLETS TYPE 8, 9, 10 AND 11

STATE OF WISCONSIN
DEPARTMENT OF TRANSPORTATION

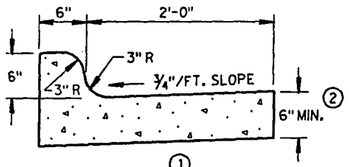
APPROVED
8/10/98
DATE
CHIEF ROADWAY DEVELOPMENT ENGINEER
FHWA

S.D.D. 8 C 5-2

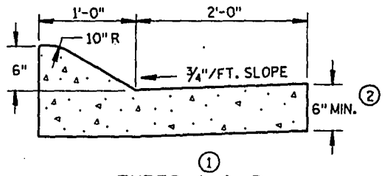
S.D.D. 8 C 5-2



1 TYPES A & D

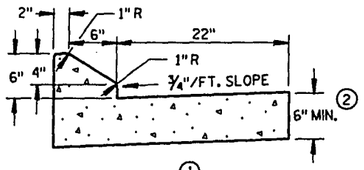


1 TYPES K & L

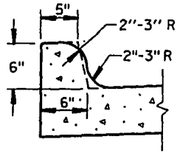


1 TYPES A & D

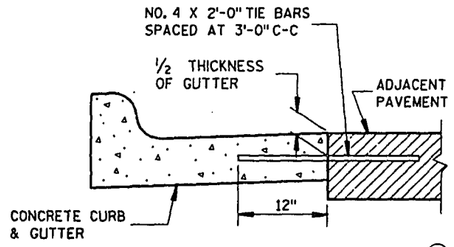
CONCRETE CURB & GUTTER 36"



1 TYPES G & J



OPTIONAL CURB SHAPE FOR TYPES K & L 1



TYPICAL TIE BAR LOCATION 1

CONCRETE CURB & GUTTER 30"

GENERAL NOTES

DETAILS OF CONSTRUCTION, MATERIALS AND WORKMANSHIP NOT SHOWN ON THIS DRAWING SHALL CONFORM TO THE PERTINENT REQUIREMENTS OF THE CONTRACT.

SEALANT IS NOT REQUIRED IN THE JOINTS OF CONCRETE CURB OR CONCRETE CURB & GUTTER EXCEPT AS REQUIRED FOR INTEGRAL GUTTER.

PAVEMENT TIES ARE REQUIRED, WHEN INCLUDED IN THE CONTRACT, WHERE CONCRETE CURB, CONCRETE CURB AND GUTTER OR CONCRETE PAVEMENT IS PLACED ADJACENT TO EXISTING CONCRETE.

PAVEMENT TIES AND TIE BARS SHALL BE EPOXY COATED IN CONFORMANCE WITH SUBSECTION 505.2.4 OF THE STANDARD SPECIFICATIONS.

INTEGRAL CURB & GUTTER SHALL CONFORM TO THE DETAILS SHOWN FOR CONCRETE CURB & GUTTER INCLUDING THE TRANSVERSE GUTTER SLOPE. TIE BARS AND A LONGITUDINAL CONSTRUCTION JOINT ARE NOT REQUIRED WITH THIS ALTERNATE.

PAVEMENT JOINTS SHALL BE EXTENDED THROUGH INTEGRAL CURB & GUTTER. JOINTS IN INTEGRAL GUTTER SHALL HAVE THE SAME DIMENSIONS AS THE JOINTS IN THE ADJACENT PAVEMENT. JOINTS IN INTEGRAL CURB SHALL BE 1/8" WIDE.

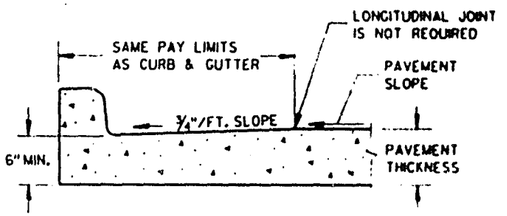
JOINTS IN INTEGRAL CURB & GUTTER SHALL BE SEALED TO THE FACE OF CURB WITH THE SAME SEALANT SPECIFIED FOR THE PAVEMENT JOINT. THE COST OF FURNISHING AND INSTALLING THIS SEALANT SHALL BE INCIDENTAL TO THE ITEM CONCRETE CURB & GUTTER.

UNLESS OTHERWISE SHOWN ON THE TYPICAL CROSS SECTIONS, THE BASE COURSE AND UNCLASSIFIED EXCAVATION LIMITS ARE TWO FEET BEHIND THE BACK OF CURBS.

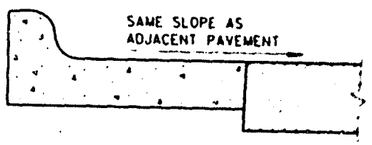
(1) TIE BARS ARE REQUIRED FOR CURB AND GUTTER TYPES A, G AND K.

(2) THE BOTTOM OF CURB AND GUTTER MAY BE CONSTRUCTED EITHER LEVEL OR PARALLEL TO THE SLOPE OF THE SUBGRADE OR BASE COURSE PROVIDED A 6" MINIMUM GUTTER THICKNESS IS MAINTAINED.

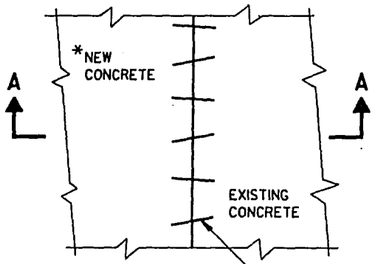
(3) WHEN REVERSE SLOPE GUTTER IS REQUIRED, THE LOCATIONS WILL BE SHOWN ELSEWHERE IN THE PLAN.



PARTIAL SECTION OF PAVEMENT WITH INTEGRAL CURB & GUTTER

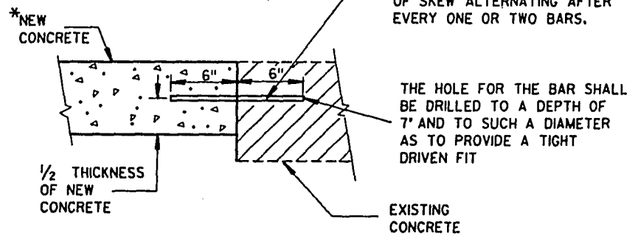


REVERSE SLOPE GUTTER 3
(TYPICAL FOR ALL CURB & GUTTER TYPES)

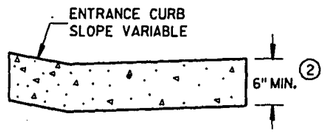


*NEW CURB & GUTTER, SURFACE DRAINS, CONCRETE PAVEMENT OR OTHER NEW CONCRETE.

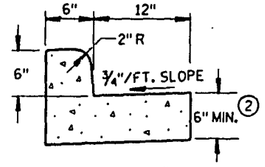
PLAN VIEW



SECTION A-A
PAVEMENT TIES

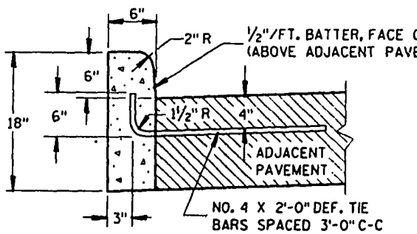


DRIVEWAY ENTRANCE CURB
(WHEN DIRECTED BY THE ENGINEER)

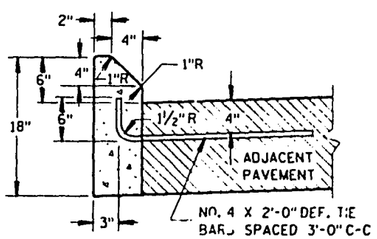


1 TYPES A & D

CONCRETE CURB & GUTTER 18"



1 TYPES A & D



1 TYPES G & J

CONCRETE CURB

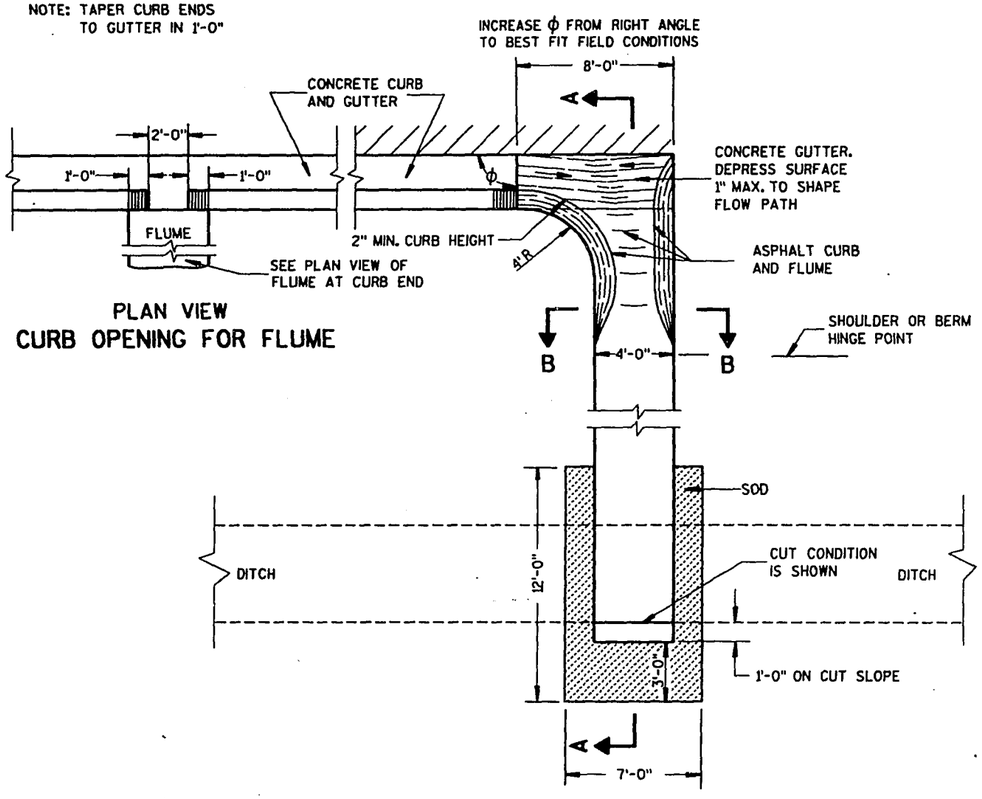
CONCRETE CURB, CONCRETE CURB & GUTTER AND PAVEMENT TIES
STATE OF WISCONSIN DEPARTMENT OF TRANSPORTATION
APPROVED 10-23-86 DATE — STATE DESIGN ENGINEER FOR HWAS — FHWA

S.D.D. 8 D 1-11

S.D.D. 8 D 1-11

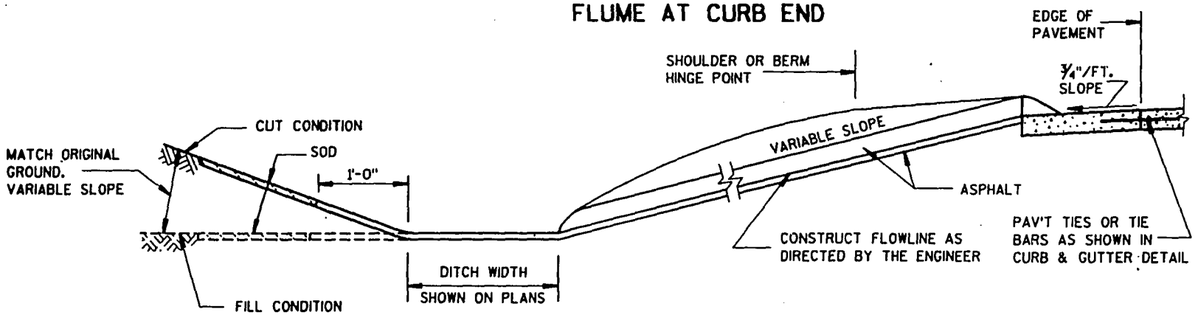
ASPHALTIC FLUME

NOTE: TAPER CURB ENDS TO GUTTER IN 1'-0"

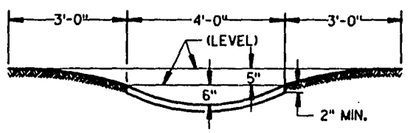


PLAN VIEW
CURB OPENING FOR FLUME

PLAN VIEW
FLUME AT CURB END



SECTION A-A



SECTION B-B

GENERAL NOTES

DETAILS OF CONSTRUCTION, MATERIALS AND WORKMANSHIP NOT SHOWN ON THIS DRAWING SHALL CONFORM TO PERTINENT REQUIREMENTS OF THE STANDARD SPECIFICATIONS AND APPLICABLE SPECIAL PROVISIONS.

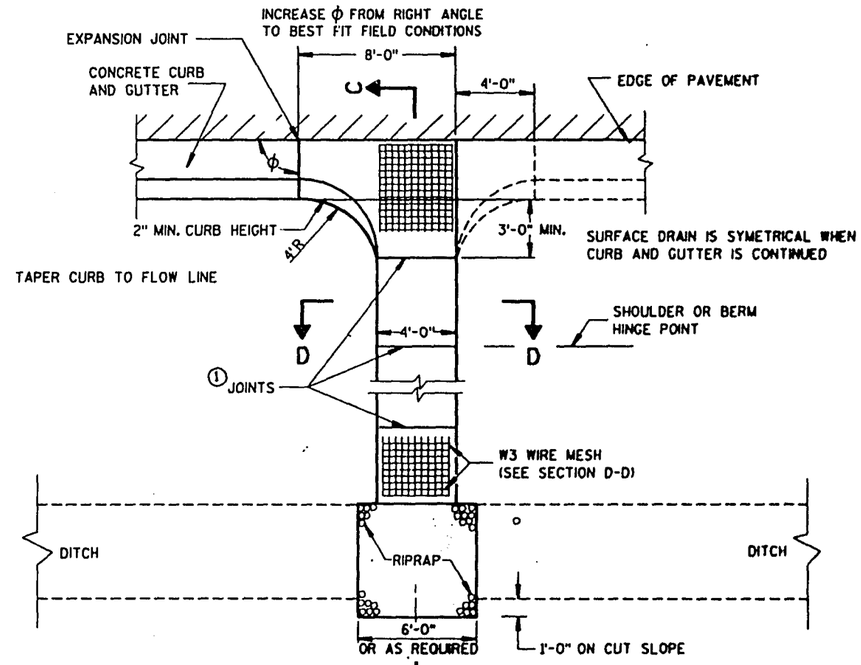
WELDED STEEL WIRE FABRIC SHALL BE IN ACCORDANCE WITH AASHTO SPECIFICATION M55.

① JOINTS SHALL BE ⅛ TO ¼ INCH WIDE BY 1½ INCHES DEEP AND SPACED AT UNIFORM INTERVALS OF APPROXIMATELY 4 FEET.

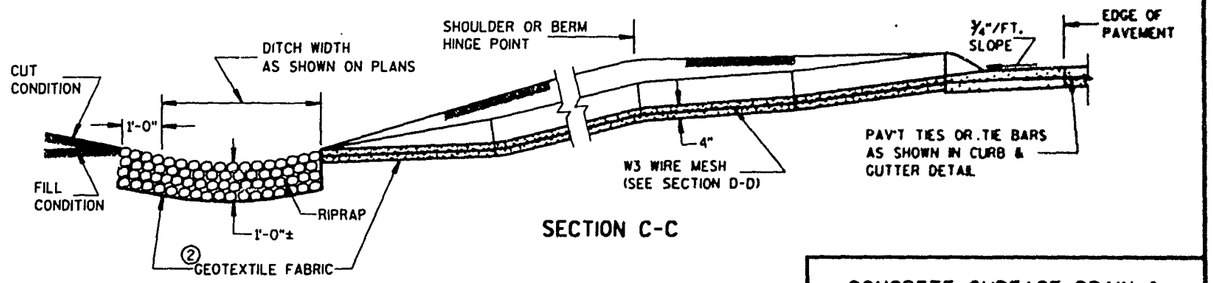
② GEOTEXTILE FABRIC TYPE "R" SHALL UNDERLAY THE FULL LENGTH AND WIDTH OF THE CONCRETE SURFACE DRAIN AND RIPRAP.

③ CONCRETE SURFACE DRAIN WITHOUT CURB AND GUTTER MAY BE USED ON BACKSLOPES WHEN SPECIFIED

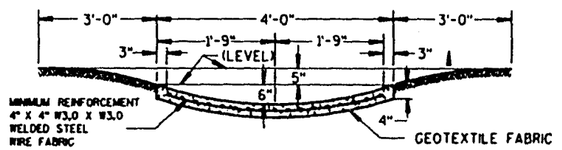
③CONCRETE SURFACE DRAIN



PLAN VIEW



SECTION C-C



SECTION D-D

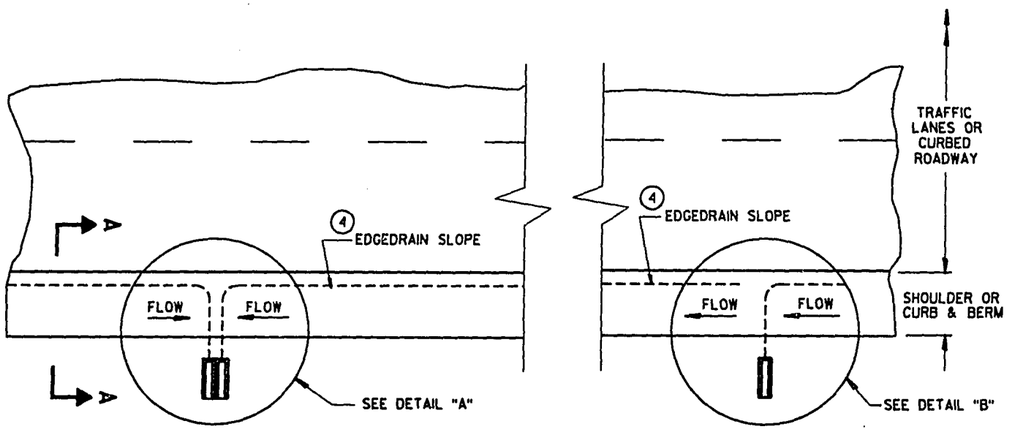
CONCRETE SURFACE DRAIN & ASPHALTIC FLUME

STATE OF WISCONSIN
DEPARTMENT OF TRANSPORTATION

APPROVED 10/27/09
DATE
STATE DESIGN ENGINEER FOR MRVS
FHWA

S.D.D. 8 D 4-3

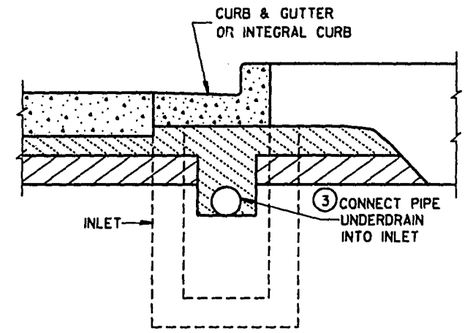
S.D.D. 8 D 4-3



PLAN VIEW

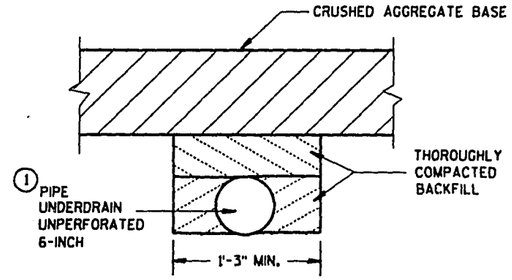
ROADWAY WITH SHOULDERS OR CURBS

(EDGEDRAIN OUTLETS TO ROADSIDE) (2)



SECTION B-B

URBAN CROSS SECTION



SECTION C-C

(TRENCH FOR OUTFALL PIPE)

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.

(1) UNPERFORATED PIPE UNDERDRAIN AND FITTINGS FURNISHED FOR OUTFALL PIPE SHALL MEET THE REQUIREMENTS OF ONE OF THE FOLLOWING SPECIFICATIONS:

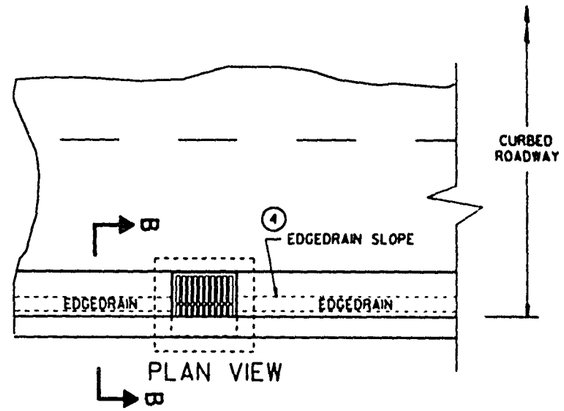
POLYVINYL CHLORIDE (PVC) PLASTIC DRAIN, WASTE, AND VENT PIPE AND FITTINGS, ASTM D 2665, SCHEDULE 40 PVC.

TYPE PSM POLYVINYL CHLORIDE (PVC) SEWER PIPE AND FITTINGS, ASTM D 3034, SDR 23.5 PVC SEWER PIPE.

(2) MAXIMUM SPACING OF EDGEDRAIN OUTLETS SHALL BE 250 FEET UNLESS OTHERWISE SPECIFIED IN THE CONTRACT OR DIRECTED BY THE ENGINEER.

(3) EDGEDRAIN SHALL BE CONNECTED TO INLETS REGARDLESS OF FLOW DIRECTION FOR DRAINAGE AND MAINTENANCE ACCESS.

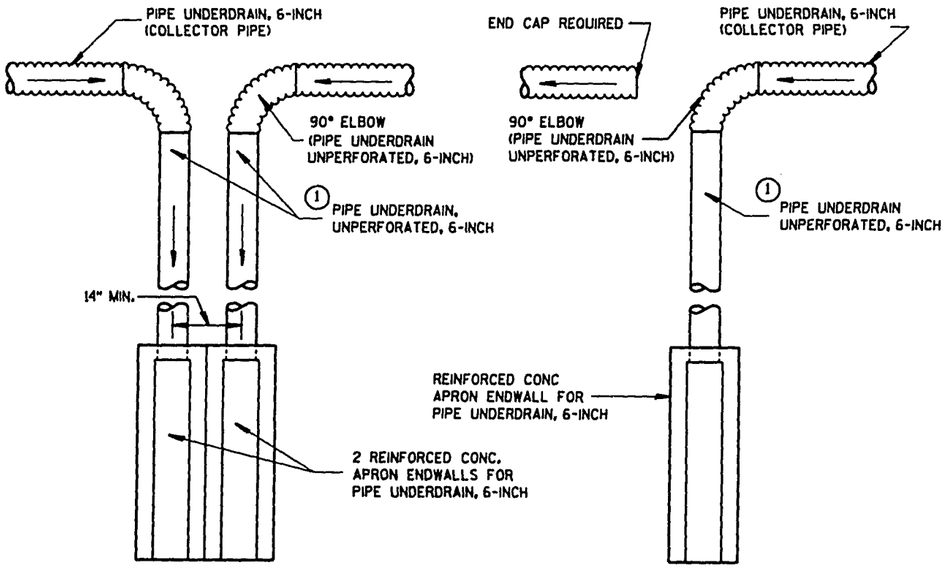
(4) EDGEDRAIN SHALL BE LAID PARALLEL TO THE GRADE OF ROADWAY.



PLAN VIEW

ROADWAY WITH CURBS

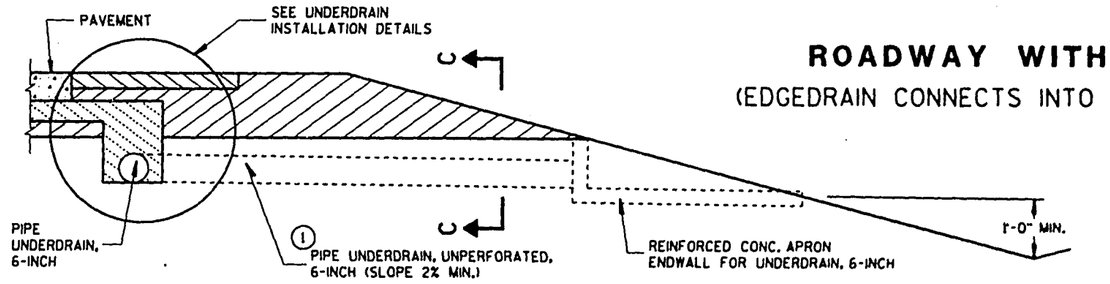
(EDGEDRAIN CONNECTS INTO INLET STRUCTURE)



DETAIL "A"
TO BE USED AT LOW POINT LOCATIONS

DETAIL B
TO BE USED AT INTERMEDIATE LOCATIONS

TYPICAL DRAIN OUT DETAILS



SECTION A-A

RURAL CROSS SECTION

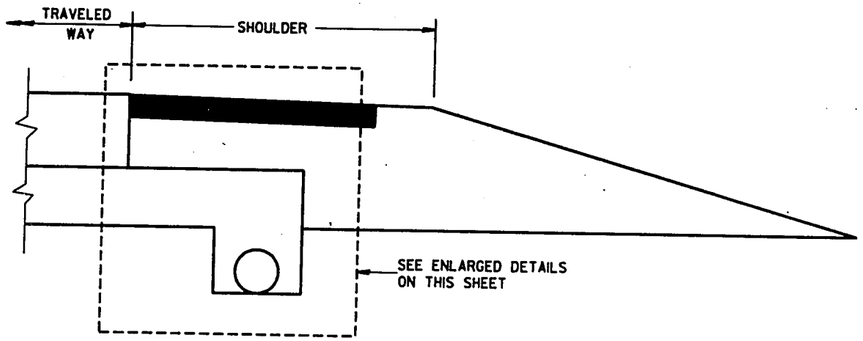
NOTE:
SDD 8F6-X AND SDD 8D15-10 or SDD 8D15-1C ARE REQUIRED WITH THIS DRAWING IN CONTRACT PLANS.

EDGEDRAIN OUTLET DETAILS

STATE OF WISCONSIN
DEPARTMENT OF TRANSPORTATION

S.D.D. 8 D 15-1a

S.D.D. 8 D 15-1a



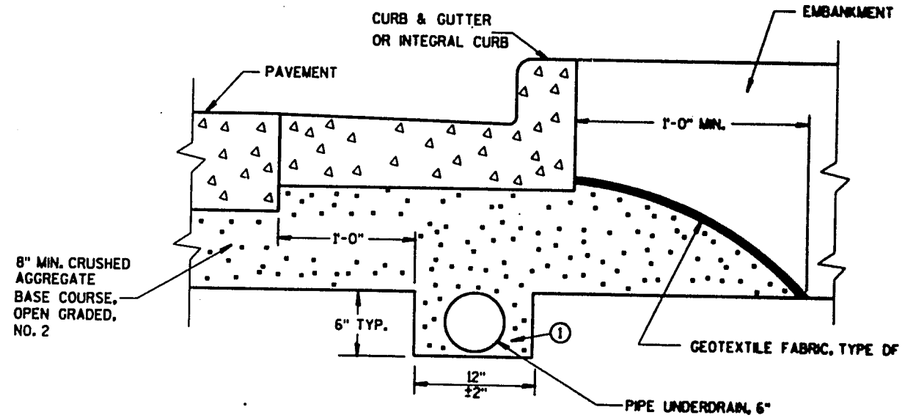
RURAL CROSS SECTION

NOTES

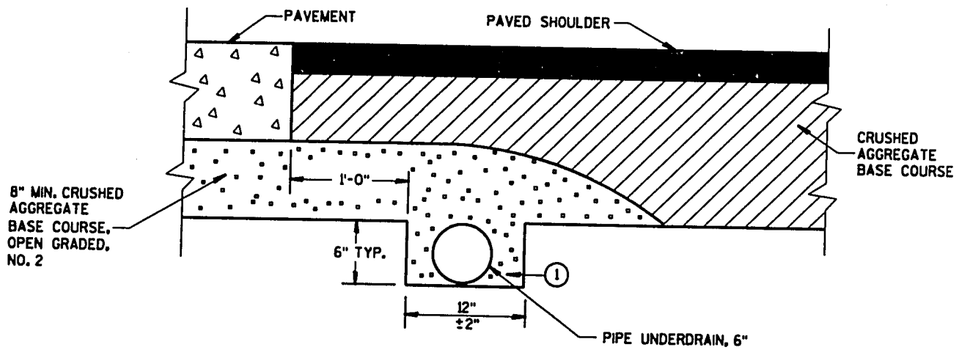
THE DIMENSIONS SHOWN ON THE TYPICAL CROSS SECTIONS WILL GOVERN IN THE EVENT THERE IS A CONFLICT WITH THE DETAILS SHOWN ON THIS DRAWING.

PIPE UNDERDRAIN SHALL BE LAID PARALLEL TO THE GRADE OF THE ROADWAY.

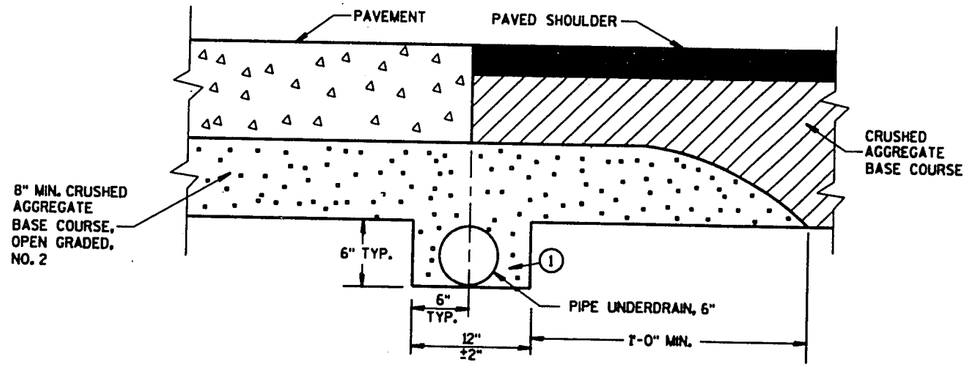
(1) TRENCH BACKFILL WILL BE PAID FOR AS CRUSHED AGGREGATE BASE COURSE, OPEN GRADED NO. 2.



EDGEDRAIN IN URBAN ROADWAY



POST PAVING INSTALLATION
(QUANTITIES ARE BASED ON THIS DETAIL)



PRE-PAVING INSTALLATION ALTERNATIVE

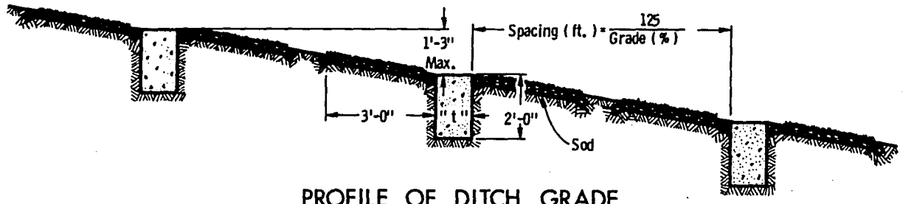
EDGEDRAIN IN RURAL ROADWAY

NOTE:
SDD 8D15-1a IS REQUIRED WITH THIS DRAWING IN CONTRACT PLANS.

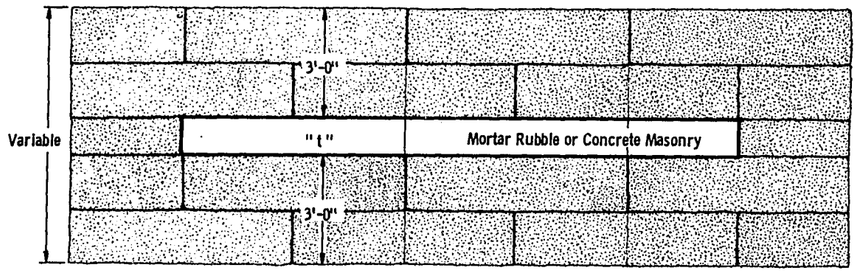
EDGEDRAIN AND CRUSHED AGGREGATE BASE COURSE, OPEN GRADED, NO. 2 DETAILS
STATE OF WISCONSIN DEPARTMENT OF TRANSPORTATION
APPROVED 12/7/93 DATE CHIEF, METHODS DEVELOPMENT ENGINEER FHWA

S.D.D. 8 D 15-1c

S.D.D. 8 D 15-1c

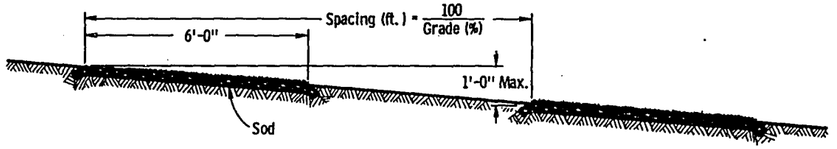


PROFILE OF DITCH GRADE

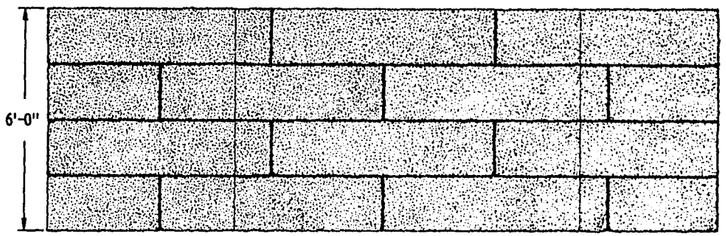


PLAN VIEW SHOWING MASONRY AND SOD

" t " - Masonry thickness shall be 0'-9" for concrete and 1'-0" for mortar rubble.



PROFILE OF DITCH GRADE



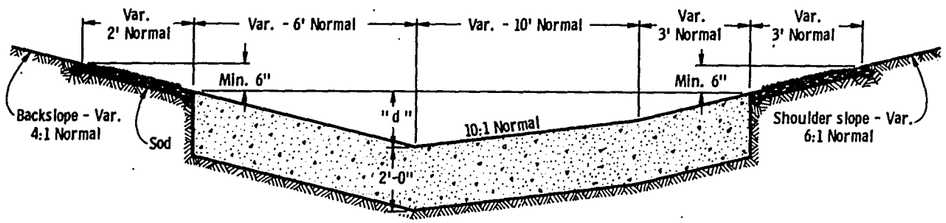
PLAN VIEW SHOWING SOD

GENERAL NOTES

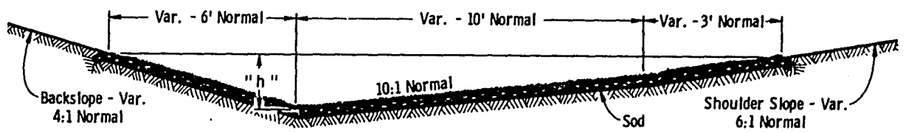
Details of construction, materials and workmanship not shown on this drawing shall conform to the pertinent requirements of the Standard Specifications and the applicable Special Provisions.

Alternate designs for ditch checks, of the material or combination of materials shown hereon, may be used upon written permission of the Engineer.

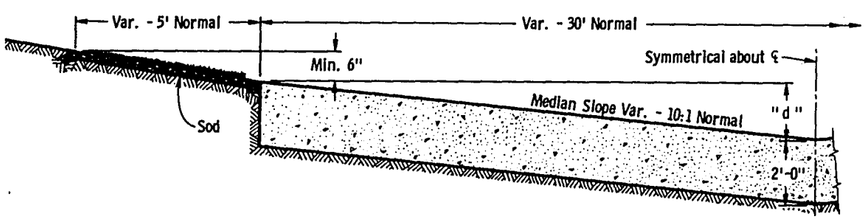
Sod strips for ditch checks may be placed either transversely or longitudinally to the direction of water flow.



SIDE DITCH CROSS SECTION



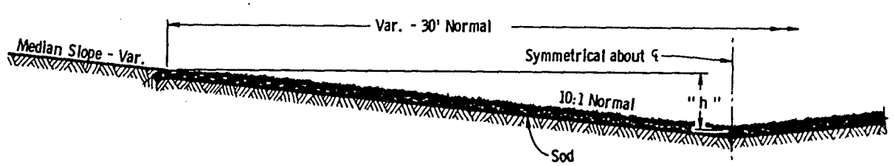
SIDE DITCH CROSS SECTION



MEDIAN DITCH CROSS SECTION

" d " - The minimum depth of the masonry portion of the ditch checks shall be equal to the maximum depth of flow. The normal " d " will be 1'-6".

MASONRY AND SOD DITCH CHECKS



MEDIAN DITCH CROSS SECTION

" h " - The minimum height of ditch to be sodded shall be equal to the maximum depth of flow plus 6". The normal " h " will be 1'-6".

SOD DITCH CHECKS

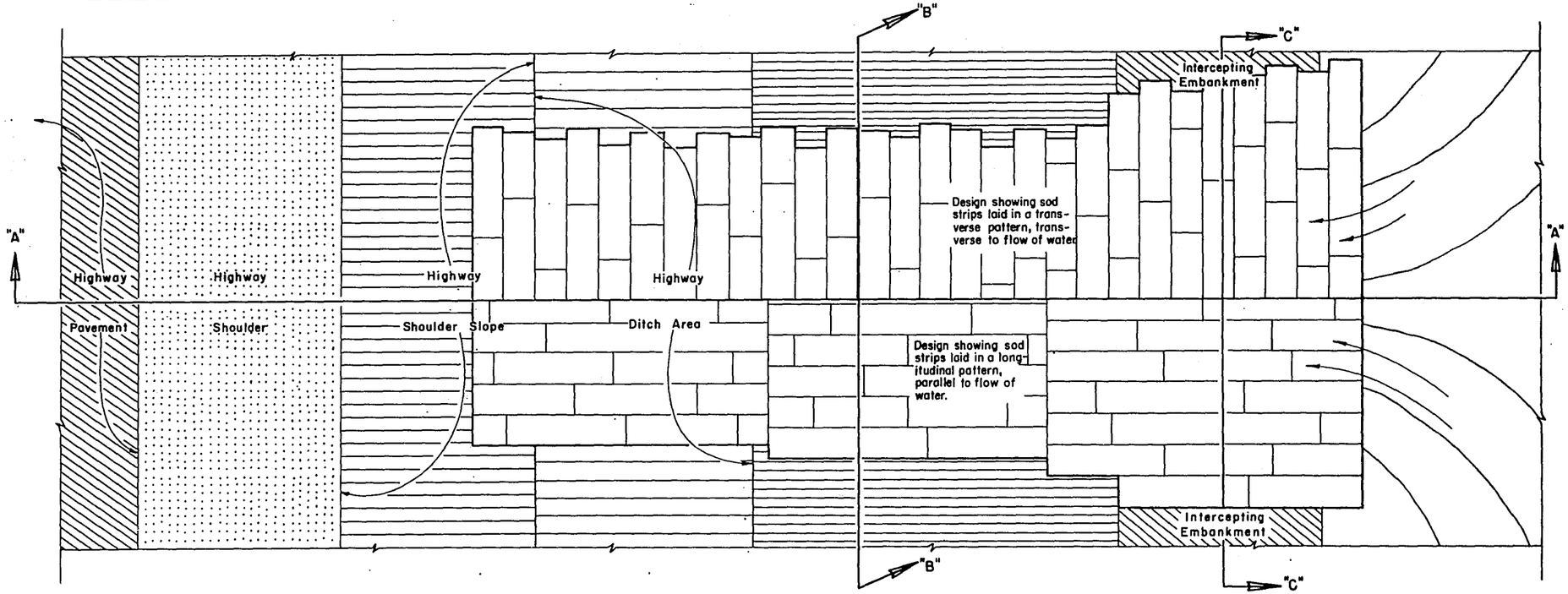
SOD OR MASONRY AND SOD DITCH CHECKS

State of Wisconsin
Department of Transportation
Division of Highways

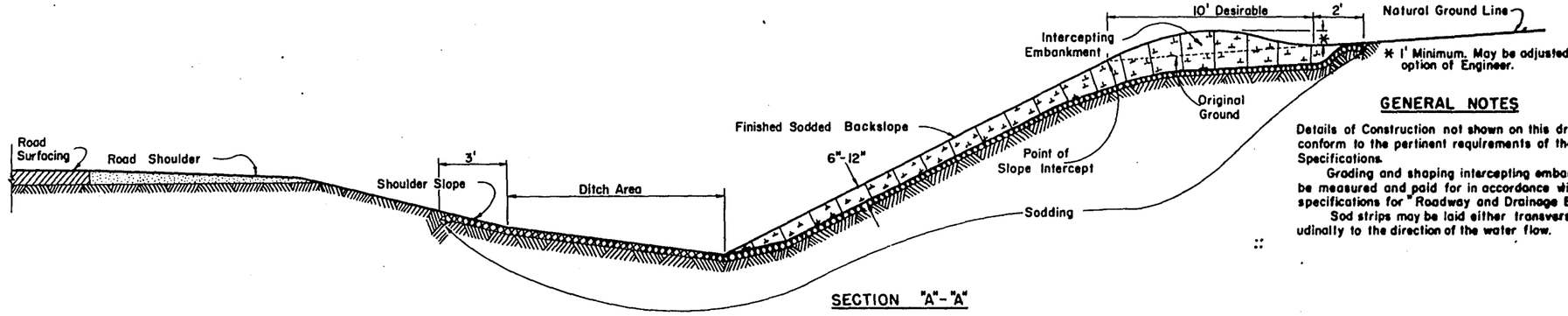
RECOMMENDED FOR APPROVAL
9/7/71 — DATE
APPROVED
9/7/71 — DATE

S.D.D. 8E4-2

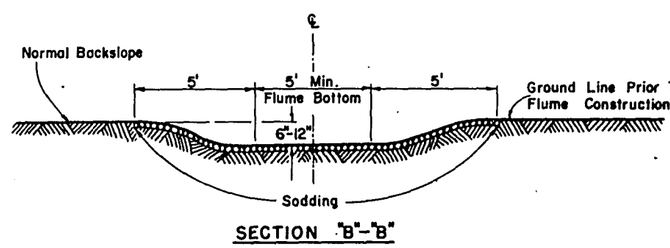
S.D.D. 8E4-2



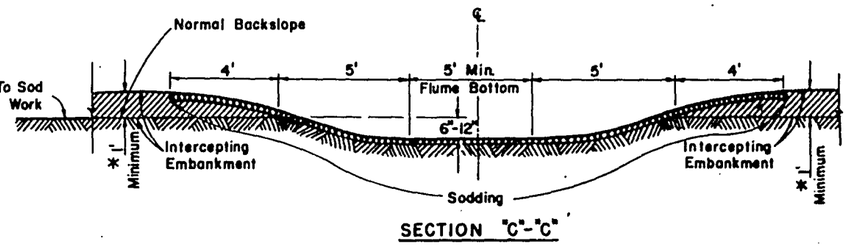
PLAN VIEW OF SODDED BACKSLOPE FLUME



SECTION "A"-"A"



SECTION "B"-"B"



SECTION "C"-"C"

GENERAL NOTES

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

Grading and shaping intercepting embankment will be measured and paid for in accordance with the standard specifications for "Roadway and Drainage Excavation".

Sod strips may be laid either transversely or longitudinally to the direction of the water flow.

NOTE: Dimensions shown may be adjusted at the option of the Engineer to fit local conditions.

SODDED BACKSLOPE FLUME & INTERCEPTING EMBANKMENT

STATE HIGHWAY COMMISSION OF WISCONSIN

RECOMMENDED FOR APPROVAL:

2-5-67
DATE

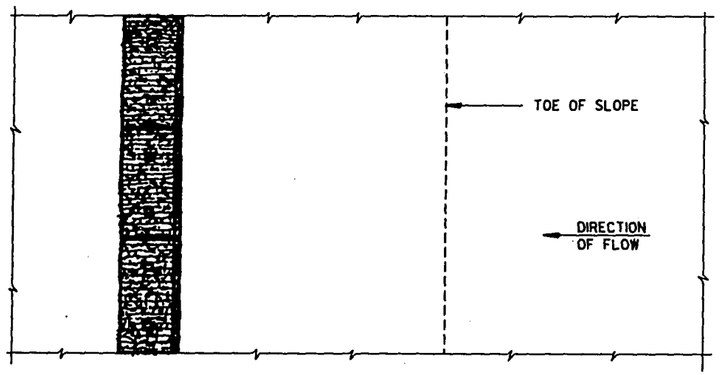
J. L. Gift
ENGINEER OF DESIGN

APPROVED

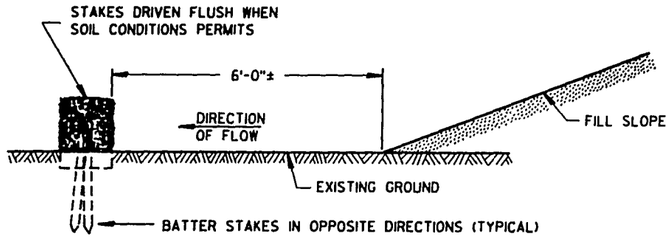
2/6/67
DATE

C. L. Purtell
STATE HIGHWAY ENGINEER

S.D.D. 8E5-1



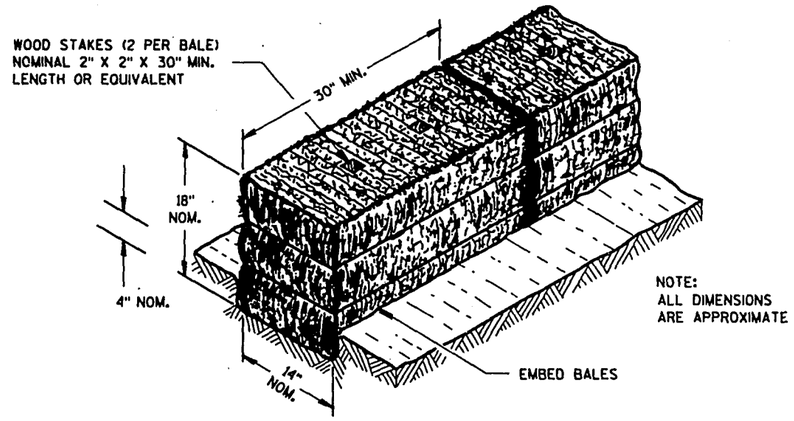
PLAN VIEW



FRONT ELEVATION

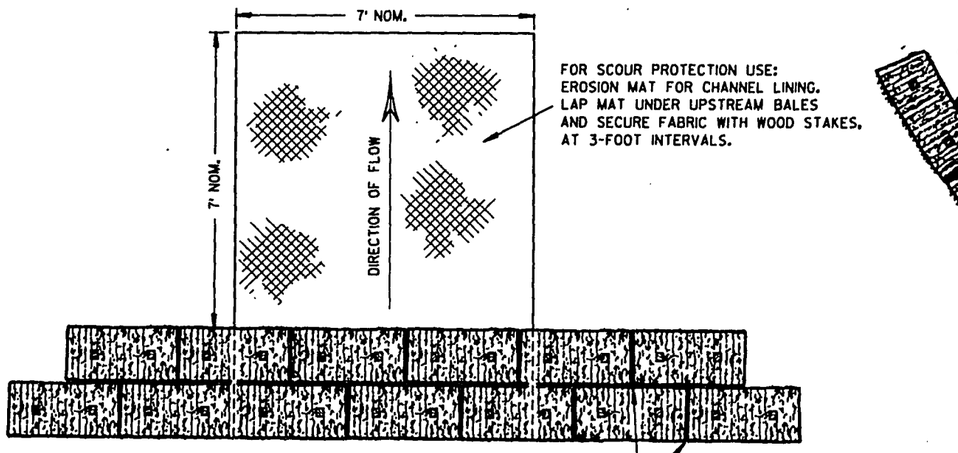
WHEN EXISTING GROUND SLOPES AWAY FROM FILL SLOPE

EROSION BALES FOR SHEET FLOW

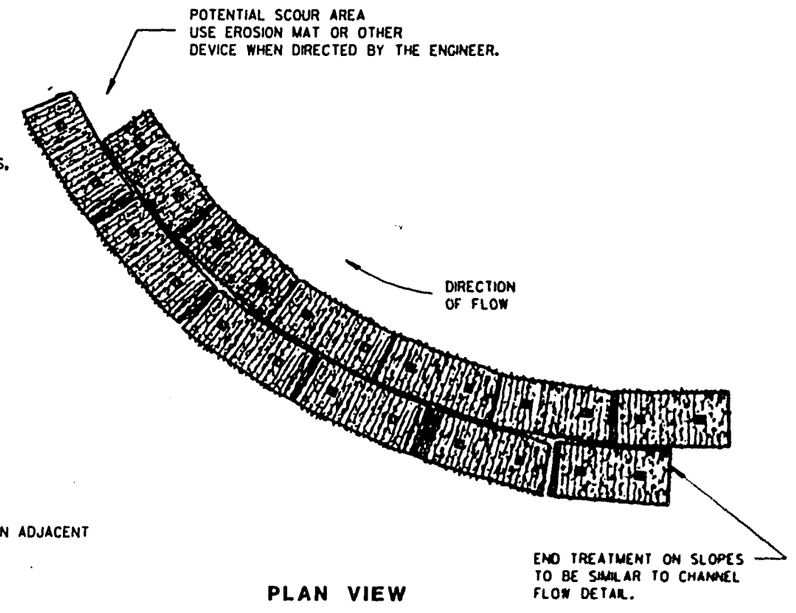


GENERAL NOTES

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.

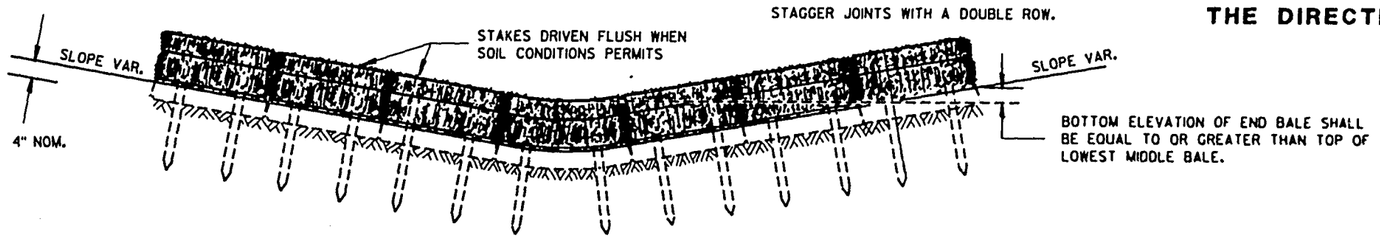


PLAN VIEW



PLAN VIEW

EROSION BALES WHEN ALTERING THE DIRECTION OF FLOW



FRONT ELEVATION

EROSION BALES FOR CHANNEL FLOW

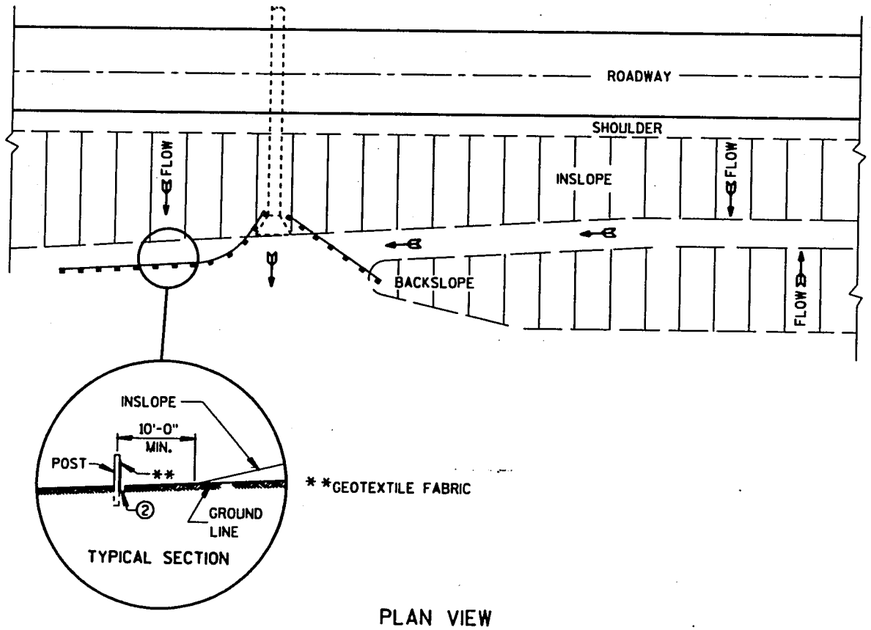
TYPICAL INSTALLATIONS OF EROSION BALES

STATE OF WISCONSIN
DEPARTMENT OF TRANSPORTATION

APPROVED
4/29/94 DATE
CHIEF ROADWAY DEVELOPMENT ENGINEER
FHWA

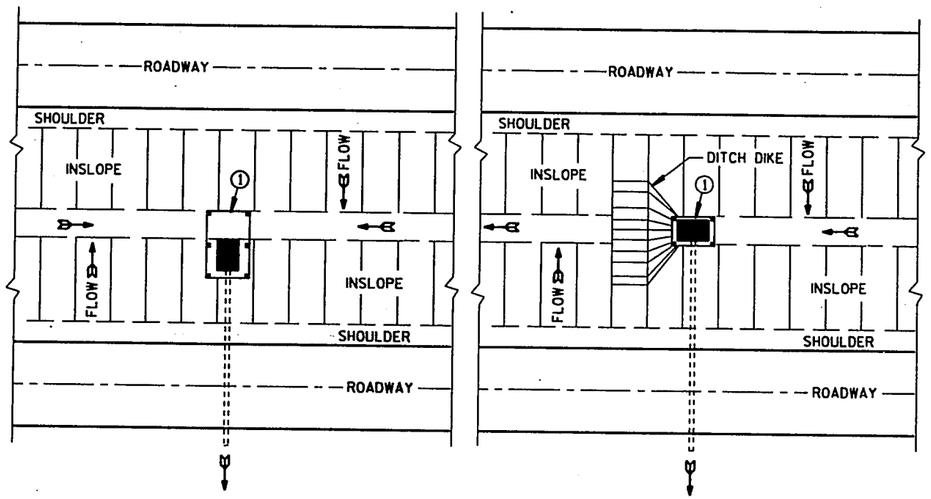
S.D.D. 8 E 8-2

S.D.D. 8 E 8-2



PLAN VIEW

TYPICAL APPLICATIONS OF SILT FENCE



SITUATION 1 SITUATION 2

PLAN VIEW

SILT FENCE AT MEDIAN SURFACE DRAINS

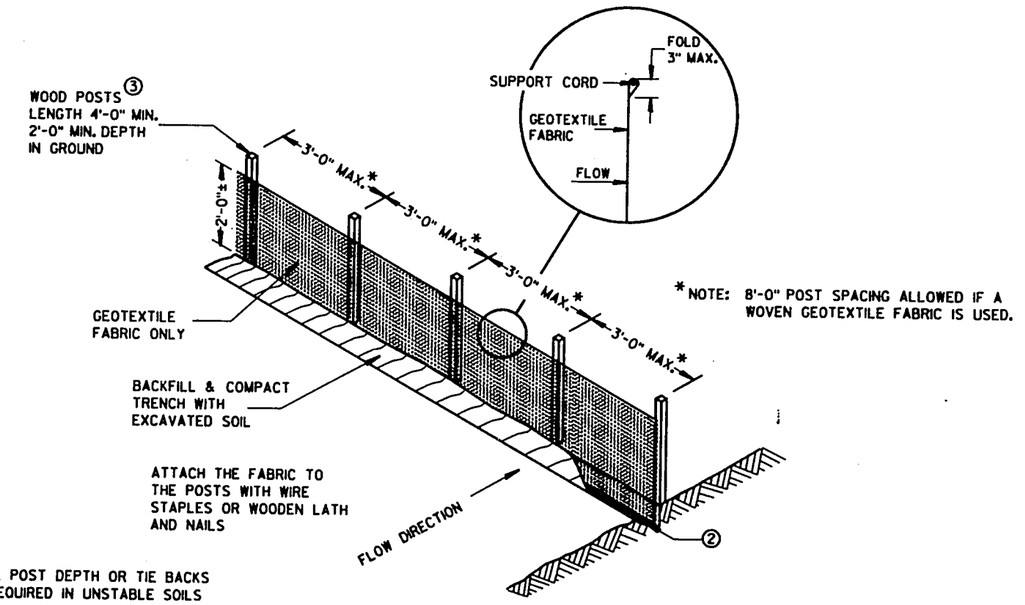
GENERAL NOTES

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

① HORIZONTAL BRACE WITH 2" X 4" WOODEN FRAME OR EQUIVALENT AT TOP OF POSTS AS DIRECTED BY THE ENGINEER.

② TRENCH SHALL BE A MINIMUM OF 4" WIDE & 6" DEEP TO BURY AND ANCHOR THE GEOTEXTILE FABRIC. FOLD MATERIAL TO FIT TRENCH AND BACKFILL & COMPACT TRENCH WITH EXCAVATED SOIL.

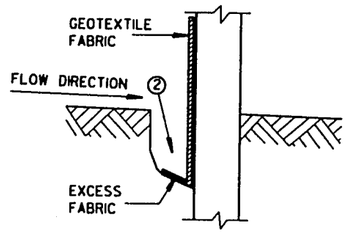
③ WOOD POSTS SHALL BE A MINIMUM SIZE OF 1 1/8" X 1 1/8" OF OAK OR HICKORY.



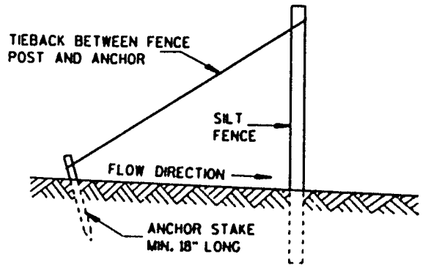
*NOTE: 8'-0" POST SPACING ALLOWED IF A WOVEN GEOTEXTILE FABRIC IS USED.

NOTE: ADDITIONAL POST DEPTH OR TIE BACKS MAY BE REQUIRED IN UNSTABLE SOILS

SILT FENCE
(NON-REINFORCED)



TRENCH DETAIL



SILT FENCE TIE BACK
(WHEN REQUIRED BY THE ENGINEER)

SILT FENCE

STATE OF WISCONSIN
DEPARTMENT OF TRANSPORTATION

APPROVED
6/29/04
DATE
CHIEF ROADWAY DEVELOPMENT ENGINEER
FHWA

S.D.D. 8 E 9-4

S.D.D. 8 E 9-4

METAL APRON ENDWALLS

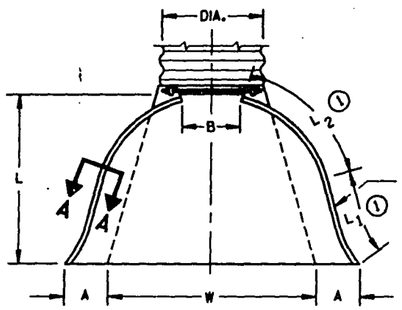
PIPE DIA. (IN.)	MIN. THICK. (Inches) STEEL	MIN. THICK. (Inches) ALUM.	DIMENSIONS (Inches) A (±1")	B (MAX.)	H (±1")	L (±1 1/2")	L1 ①	L2 ①	W (±2")	APPROX. SLOPE	BODY
12	.064	.060	6	6	6	21	12	17 1/2	24	2 1/2 to 1	1 Pc.
15	.064	.060	7	8	6	26	14	21 3/4	30	2 1/2 to 1	1 Pc.
18	.064	.060	8	10	6	31	15	28 1/4	36	2 1/2 to 1	1 Pc.
21	.064	.060	9	12	6	36	18	29 5/8	42	2 1/2 to 1	1 Pc.
24	.064	.075	10	13	6	41	18	37 1/4	48	2 1/2 to 1	1 Pc.
30	.079	.075	12	16	8	51	18	52 1/4	60	2 1/2 to 1	1 Pc.
36	.079	.105	14	19	9	60	24	59 3/4	72	2 1/2 to 1	2 Pc.
42	.109	.105	16	22	11	69	24	75 5/8	84	2 1/2 to 1	2 Pc.
48	.109	.105	18	27	12	78	24	81	90	2 1/4 to 1	3 Pc.
54	.109	.105	18	30	12	84	30	85 1/2	102	2 1/4 to 1	3 Pc.
60	.109×	.105×	18	33	12	87	—	—	114	2 to 1	3 Pc.
66	.109×	.105×	18	36	12	87	—	—	120	2 to 1	3 Pc.
72	.109×	.105×	18	39	12	87	—	—	126	2 to 1	3 Pc.
78	.109×	.105×	18	42	12	87	—	—	132	1 1/2 to 1	3 Pc.
84	.109×	.105×	18	45	12	87	—	—	138	1 1/2 to 1	3 Pc.
90	.109×	.105×	18	37	12	87	—	—	144	1 1/2 to 1	3 Pc.
96	.109×	.105×	18	35	12	87	—	—	150	1 1/2 to 1	3 Pc.

× EXCEPT CENTER PANEL SEE GENERAL NOTES

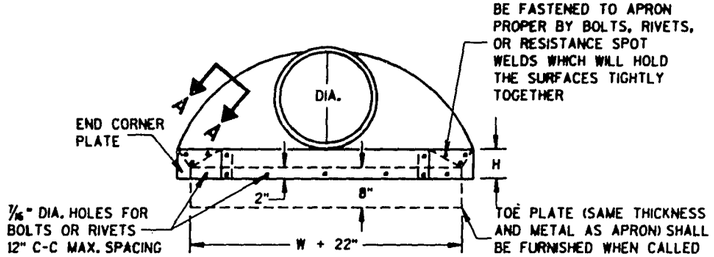
REINFORCED CONCRETE APRON ENDWALLS

PIPE DIA. (IN.)	DIMENSIONS (Inches) T	A	B	C	D	E	G	APPROX. SLOPE
12	2	4	24	48 7/8	72 7/8	24	2	3 to 1
15	2 1/4	6	27	46	73	30	2 1/4	3 to 1
18	2 1/2	9	27	46	73	36	2 1/2	3 to 1
21	2 3/4	9	36	37 1/2	73 1/2	42	2 3/4	3 to 1
24	3	9 1/2	43 1/2	30	73 1/2	48	3	3 to 1
27	3 1/4	10 1/2	49 1/2	24	73 1/2	54	3 1/4	3 to 1
30	3 1/2	12	54	19 3/4	73 1/2	60	3 1/2	3 to 1
36	4	15	63	34 3/4	97 3/4	72	4	3 to 1
42	4 1/2	21	63	35	98	78	4 1/2	3 to 1
48	5	24	72	26	98	84	5	3 to 1
54	5 1/2	27	65	* 33 1/4 - ** 35	* 98 1/4 - ** 100	90	5 1/2	2 2/3 to 1
60	6	* 30 - ** 35	60	39	99	96	5	2 to 1
66	6 1/2	* 24 - ** 30	* 72 - ** 78	* 21 - ** 27	99	102	5 1/2	2 to 1
72	7	* 24 - ** 36	78	21	99	108	6	2 to 1
78	7 1/2	* 24 - ** 36	78	21	99	114	6 1/2	2 to 1
84	8	36	90 1/2	21	111 1/2	120	6 1/2	1 1/2 to 1
90	8 1/2	41	87 1/2	24	111 1/2	132	6 1/2	1 1/2 to 1

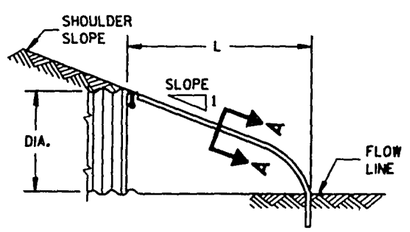
*MINIMUM
**MAXIMUM



PLAN VIEW

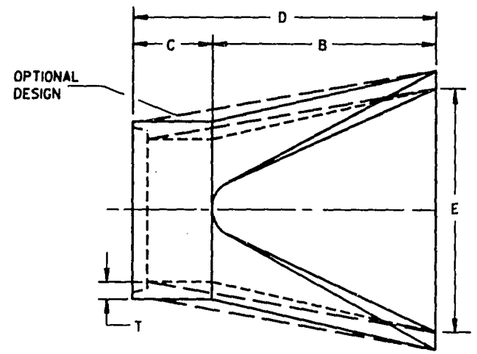


END VIEW

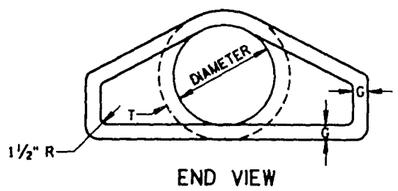


SIDE ELEVATION

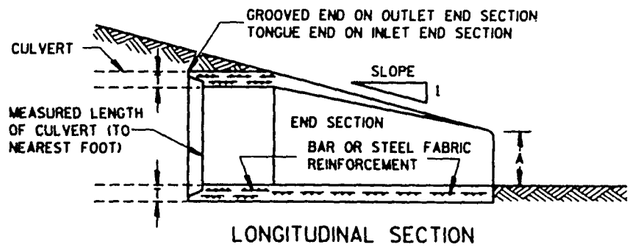
METAL ENDWALLS



PLAN

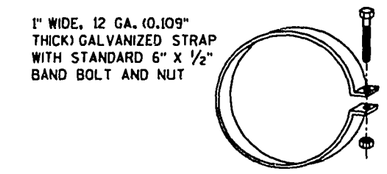


END VIEW



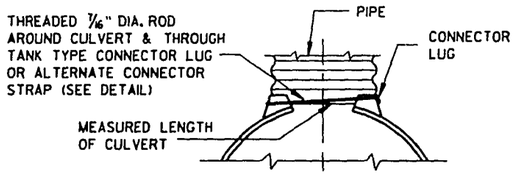
LONGITUDINAL SECTION

CONCRETE ENDWALLS

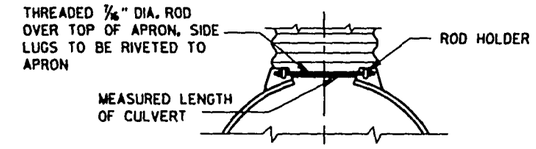


ALTERNATE FOR TYPE 1 CONNECTION

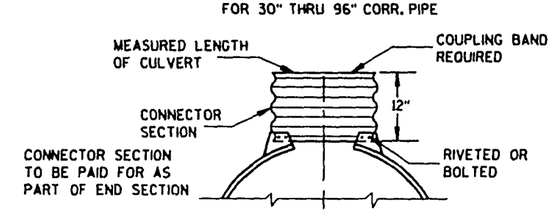
END SECTION CONNECTOR STRAP



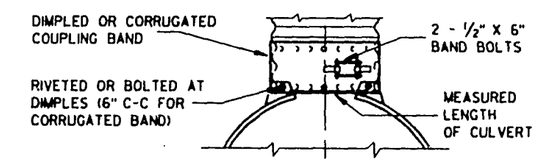
TYPE 1
FOR 12" THRU 24" CORR. PIPE



TYPE 2
FOR 30" THRU 96" CORR. PIPE



TYPE 3
FOR 42" THRU 96" CORR. PIPE



TYPE 5
ALTERNATE FOR:
ALL SIZES CORRUGATED CIRCULAR PIPE

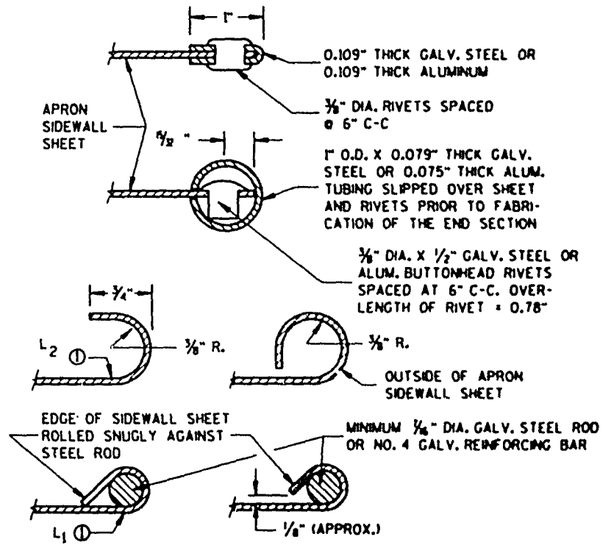
NOTE: DIMPLED BAND FITS OVER OUTSIDE OF ENDWALL, AND CORRUGATED BAND FITS INSIDE ENDWALL. DIMPLED BAND MAY BE USED WITH HELICALLY CORRUGATED PIPE.

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.

CONNECTION DETAILS



SECTION A-A

GENERAL NOTES

DETAILS OF CONSTRUCTION, MATERIALS AND WORKMANSHIP NOT SHOWN ON THIS DRAWING SHALL CONFORM TO THE PERTINENT REQUIREMENTS OF THE STANDARD SPECIFICATIONS AND THE APPLICABLE SPECIAL PROVISIONS.

CONCRETE CULVERT ENDWALLS MAY NOT BE USED WITH GALVANIZED STEEL OR ALUMINUM CULVERT PIPE OR VISE VERSA. GALVANIZED STEEL OR ALUMINUM ENDWALLS SHALL NORMALLY BE INSTALLED ON CULVERT PIPE OF THE SAME METAL.

ALL THREE PIECE STEEL APRON ENDWALLS FOR 60" DIAMETER PIPE AND LARGER SHALL HAVE 0.109" SIDES AND 0.138" CENTER PANELS. ALL THREE PIECE ALUMINUM APRON ENDWALLS FOR 60" DIAMETER PIPE AND LARGER SHALL HAVE 0.105" SIDES AND 0.134" CENTER PANELS. THE WIDTH OF CENTER PANELS SHALL BE GREATER THAN 20 PERCENT OF THE PIPE PERIMETER.

LAP SEAMS SHALL BE TIGHTLY JOINED BY GALVANIZED RIVETS OR BOLTS FOR STEEL UNITS AND ALUMINUM RIVETS AND BOLTS FOR ALUMINUM UNITS. FOR THE 60" THROUGH 96" DIAMETER APRON ENDWALL SIZES, THE REINFORCED EDGES AND CENTER PANEL SEAMS SHALL BE FURTHER REINFORCED WITH GALVANIZED STEEL OR ALUMINUM STIFFENER ANGLES. THE ANGLES SHALL BE ATTACHED BY GALVANIZED NUTS AND BOLTS FOR STEEL UNITS AND ALUMINUM NUTS AND BOLTS FOR ALUMINUM UNITS.

WHERE TWO OR MORE PIPES WITH APRON ENDWALLS ARE LAID ADJACENT TO EACH OTHER, THEY SHALL BE SEPARATED BY A DISTANCE SUFFICIENT TO PROVIDE A MINIMUM CLEARANCE OF 6 INCHES BETWEEN APRON ENDWALLS.

① FOR PIPE SIZES UP TO 60" DIAMETER, A 180° ROLLED EDGE MAY BE USED INSTEAD OF STEEL ROD REINFORCEMENT. SEE SECTION A-A.

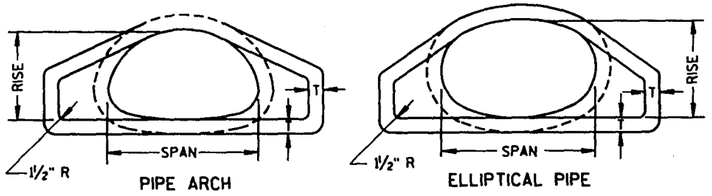
APRON ENDWALLS FOR CULVERT PIPE

STATE OF WISCONSIN
DEPARTMENT OF TRANSPORTATION

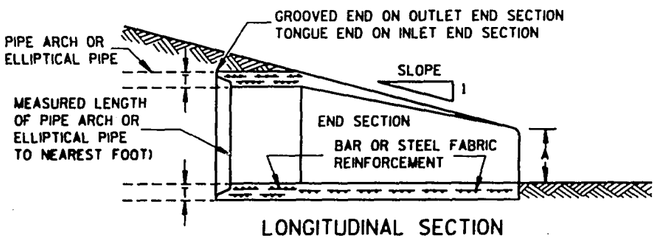
APPROVED
11/30/94
DATE
CHIEF ROADWAY DEVELOPMENT ENGINEER
FHWA

S.D.D. 8 F 1-11

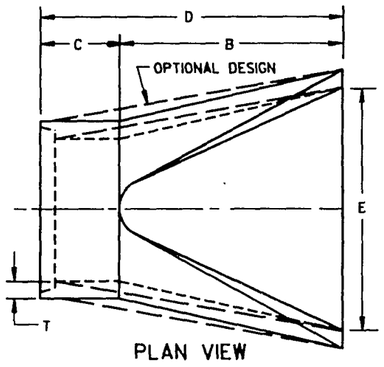
S.D.D. 8 F 1-11



END VIEW

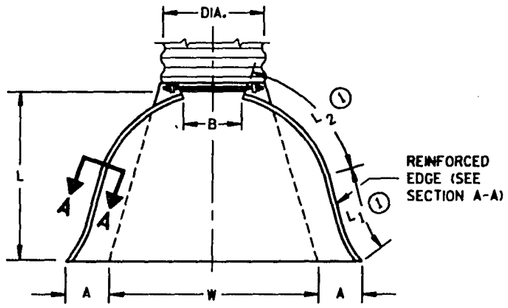


LONGITUDINAL SECTION

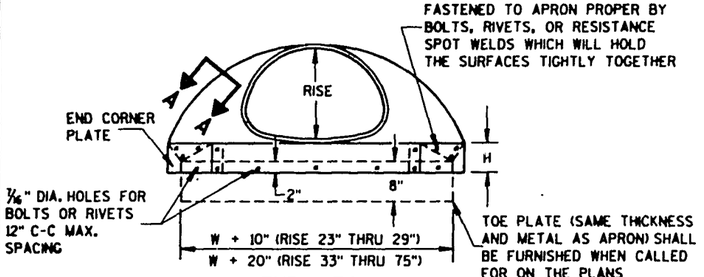


PLAN VIEW

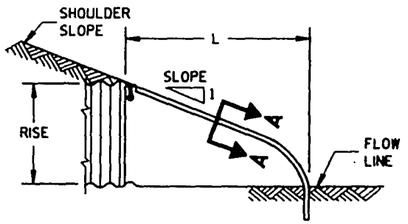
CONCRETE ENDWALLS



PLAN VIEW

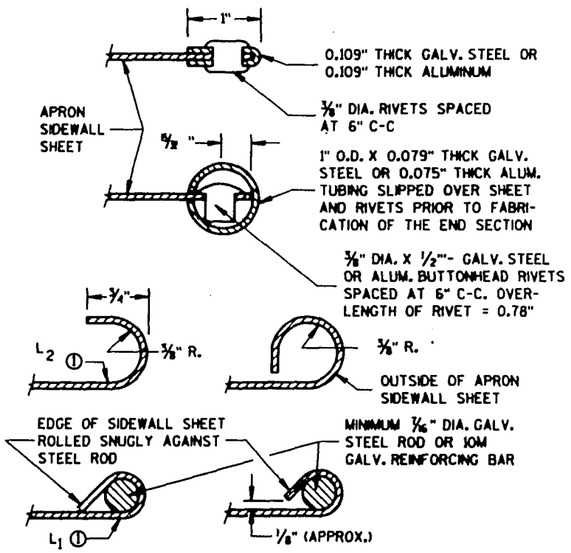


END VIEW



SIDE ELEVATION

METAL ENDWALLS



SECTION A-A

2- ⅔" X ½" CORRUGATIONS

EQUIV. DIA. (Inches)	(Inches) SPAN	(Inches) RISE	MIN. THICK. (Inches) STEEL	MIN. THICK. (Inches) ALUM.	DIMENSIONS (Inches) A (±1")	B (MAX.)	H (±1")	L (±1½")	L1 ①	L2 ①	W (±2")	APPROX. SLOPE	BODY
15	17	13	.064	.060	7	9	6	19	14	16	30	2½ to 1	1 Pc.
18	21	15	.064	.060	7	10	6	23	14	19⅜	36	2½ to 1	1 Pc.
21	24	18	.064	.060	8	12	6	28	18	21¾	42	2½ to 1	1 Pc.
24	28	20	.064	.060	9	14	6	32	18	27½	48	2½ to 1	1 Pc.
30	35	24	.079	.075	10	16	6	39	18	37⅝	60	2½ to 1	1 Pc.
36	42	29	.079	.075	12	18	8	46	24	45⅞	75	2½ to 1	1 Pc.
42	49	33	.109	.105	13	21	9	53	24	54¾	85	2½ to 1	2 Pc.
48	57	38	.109	.105	18	26	12	63	24	68	90	2½ to 1	3 Pc.
54	64	43	.109	.105	18	30	12	70	24	72¾	102	2¼ to 1	3 Pc.
60	71	47	.109*	.105*	18	33	12	77	30	82¼	114	2¼ to 1	3 Pc.
66	77	52	.109*	.105*	18	36	12	77	—	—	126	2 to 1	3 Pc.
72	83	57	.109*	.105*	18	39	12	77	—	—	138	2 to 1	3 Pc.

3" X 1" CORRUGATIONS

EQUIV. DIA. (Inches)	(Inches) SPAN	(Inches) RISE	MIN. THICK. (Inches) STEEL	MIN. THICK. (Inches) ALUM.	DIMENSIONS (Inches) A (±1")	B (MAX.)	H (±1")	L (±1½")	L1 ①	L2 ①	W (±2")	APPROX. SLOPE	BODY
48	53	41	.109	.105	18	26	12	63	24	72¾	90	2½ to 1	2 Pc.
54	60	46	.109	.105	18	30	12	70	30	82¼	102	2 to 1	2 Pc.
60	66	51	.109*	.105*	18	33	12	77	—	—	114	1½ to 1	3 Pc.
66	73	55	.109*	.105*	18	36	12	77	—	—	126	1½ to 1	3 Pc.
72	81	59	.109*	.105*	18	39	12	77	—	—	138	2 to 1	3 Pc.
78	87	63	.109*	.105*	22	38	12	77	—	—	148	1½ to 1	3 Pc.
84	95	67	.109*	.105*	22	34	12	77	—	—	162	1½ to 1	3 Pc.
90	103	71	.109*	.105*	22	38	12	77	—	—	174	1½ to 1	3 Pc.
96	112	75	.109*	.105*	24	40	12	77	—	—	174	1½ to 1	3 Pc.

NOTE: ALL SPLICES TO BE LAP RIVETED OR BOLTED.

*EXCEPT CENTER PANEL SEE GENERAL NOTES

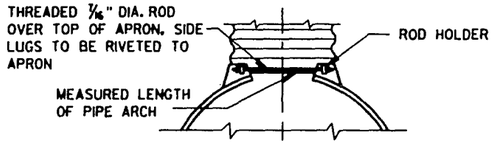
REINFORCED CONCRETE PIPE ARCH

EQUIV. DIA. (Inches)	DIMENSIONS (Inches) **SPAN	**RISE	T	A	B	C	D	E	APPROX. SLOPE
24	29	18	3	8½	39	33	72	48	3 to 1
30	36	22	3½	9½	50	46	96	60	3 to 1
36	44	27	4	11⅞	60	36	96	72	3 to 1
42	51	31	4½	15⅛	60	36	96	78	3 to 1
48	58	36	5	21	60	36	96	84	3 to 1
54	65	40	5½	25½	60	36	96	90	3 to 1
60	73	45	6	31	60	36	96	96	3 to 1
72	88	54	7	31	60	39	99	120	2 to 1
84	102	62	8	28½	83	19	102	144	2 to 1

REINFORCED CONCRETE ELLIPTICAL PIPE

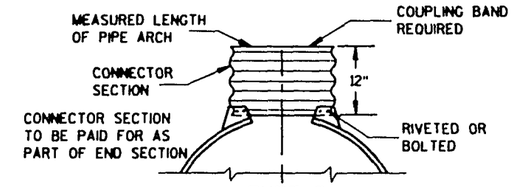
EQUIV. DIA. (Inches)	DIMENSIONS (Inches) **SPAN	**RISE	T	A	B	C	D	E	APPROX. SLOPE
24	30	19	3¼	8½	39	33	72	48	3 to 1
30	38	24	3¾	9½	54	18	72	60	3 to 1
36	45	29	4½	11⅞	60	24	84	72	2½ to 1
42	53	34	5	15¾	60	36	96	78	2½ to 1
48	60	38	5½	21	60	36	96	84	2½ to 1
54	68	43	6	25½	60	36	96	90	2½ to 1
60	76	48	6½	30	60	36	96	96	2½ to 1

**NOMINAL SIZE



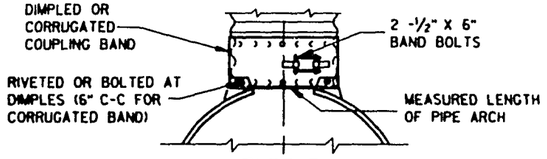
TYPE 2

FOR 17" X 13" THRU 112" X 75" PIPE ARCH



TYPE 3

FOR 64" X 43" THRU 112" X 75" PIPE ARCH



TYPE 5

ALTERNATE FOR:

ALL SIZES CORRUGATED PIPE ARCHES

NOTE: DIMPLED BAND FITS OVER OUTSIDE OF ENDWALL, AND CORRUGATED BAND FITS INSIDE ENDWALL.

CONNECTION DETAILS

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.

CONCRETE APRON ENDWALLS MAY NOT BE USED WITH GALVANIZED STEEL OR ALUMINUM CULVERT PIPE OR VISE VERSA. GALVANIZED STEEL OR ALUMINUM APRON ENDWALLS SHALL NORMALLY BE INSTALLED ON CULVERT PIPE OF THE SAME METAL.

ALL THREE PIECE STEEL APRON ENDWALLS FOR 66" X 51" PIPE ARCH AND LARGER SHALL HAVE 0.109" SIDES AND 0.138" CENTER PANELS. ALL THREE PIECE ALUMINUM APRON ENDWALLS FOR 66" X 51" PIPE ARCH AND LARGER SHALL HAVE 0.105" SIDES AND 0.134" CENTER PANELS. THE WIDTH OF CENTER PANELS SHALL BE GREATER THAN 20 PERCENT OF THE PIPE ARCH PERIMETER.

LAP SEAMS SHALL BE TIGHTLY JOINED BY GALVANIZED RIVETS OR BOLTS FOR STEEL UNITS AND ALUMINUM RIVETS AND BOLTS FOR ALUMINUM UNITS. FOR THE 77" X 52" THROUGH 112" X 75" APRON ENDWALL SIZES, THE REINFORCED EDGES AND CENTER PANEL SEAMS SHALL BE FURTHER REINFORCED WITH GALVANIZED STEEL OR ALUMINUM STIFFENER ANGLES. THE ANGLES SHALL BE ATTACHED BY GALVANIZED NUTS AND BOLTS FOR STEEL UNITS AND ALUMINUM NUTS AND BOLTS FOR ALUMINUM UNITS.

WHERE TWO OR MORE PIPES WITH APRON ENDWALLS ARE LAID ADJACENT TO EACH OTHER, THEY SHALL BE SEPARATED BY A DISTANCE SUFFICIENT TO PROVIDE A MINIMUM CLEARANCE OF 6 INCHES BETWEEN APRON ENDWALLS.

① FOR PIPE ARCH SIZES UP TO 73" X 55" A 180° ROLLED EDGE MAY BE USED INSTEAD OF STEEL ROD REINFORCEMENT. SEE SECTION A-A.

APRON ENDWALLS FOR PIPE ARCH AND ELLIPTICAL PIPE

STATE OF WISCONSIN
DEPARTMENT OF TRANSPORTATION

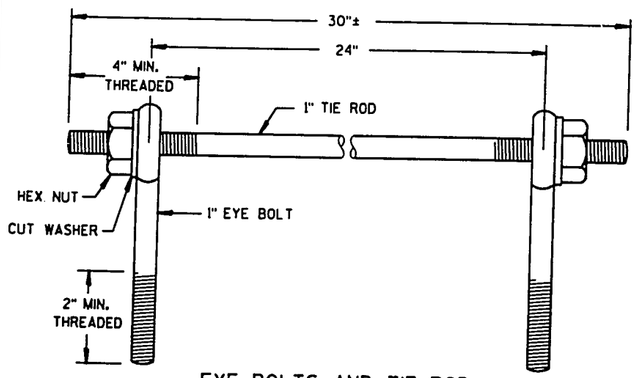
APPROVED 11/20/84 DATE

Tony L. Thomas
CHIEF ROADWAY DEVELOPMENT ENGINEER

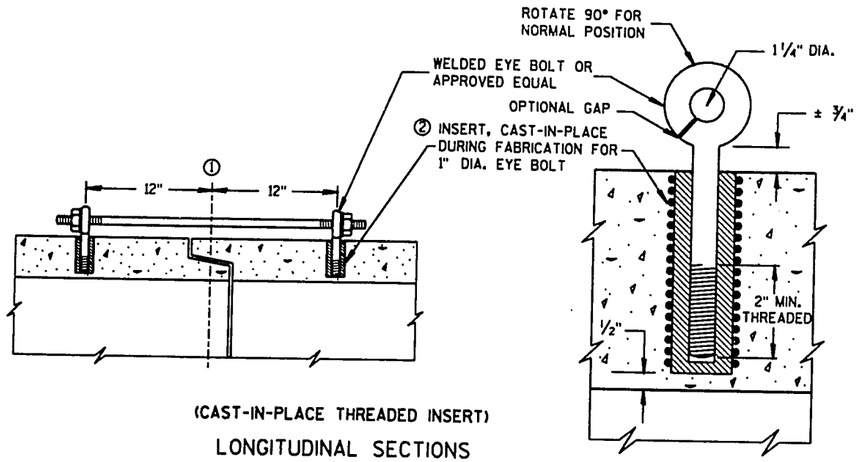
FHWA

S.D.D. 8 F 2-1

S.D.D. 8 F 2-1



EYE BOLTS AND TIE ROD



(CAST-IN-PLACE THREADED INSERT)

LONGITUDINAL SECTIONS

GENERAL NOTES

CONCRETE CULVERT PIPE SHALL BE TIED TOGETHER IN THE MANNER ILLUSTRATED BY THIS DETAIL AT LOCATIONS DESIGNATED ON THE PLAN. THE CONTRACTOR MAY USE EITHER ALTERNATE 1, 2 OR 3 FOR DRAINAGE STRUCTURES. ONLY ALTERNATE 1 AND 3 MAY BE USED FOR CATTLE PASSES. UNLESS OTHERWISE STATED IN THE CONTRACT THE MATERIALS, FABRICATION AND WORK NECESSARY TO TIE CULVERT PIPE AS INDICTED ON THE PLANS AND BY THIS DETAIL WILL BE CONSIDERED INCIDENTAL TO CULVERT PIPE, REINFORCED CONCRETE CULVERT PIPE, OR REINFORCED CONCRETE PIPE CATTLE PASS.

DETAILED DRAWINGS FOR PROPOSED ALTERNATE DESIGNS FOR JOINT TIES SHALL BE SUBMITTED TO THE ENGINEER FOR APPROVAL.

① ℄ OF TONGUE AND GROOVE OR BELL AND SPIGOT JOINTS.

② THE INSIDE OF THE THREADED INSERTS SHALL BE CLEAN TO ALLOW THE INSERTION OF THREADED EYE BOLTS.

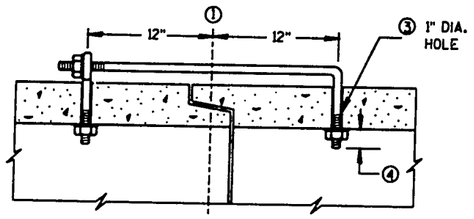
③ HOLES SHALL BE CAST-IN-PLACE OR DRILLED 12" FROM ℄ OF TONGUE AND GROOVE.

④ BOLT PROJECTION INSIDE OF PIPE SHALL NOT EXCEED 2".

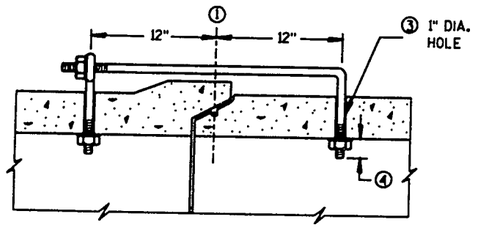
⑤ ROD DIAMETER + 1 INCH.

⑥ LENGTH ADEQUATE TO EXTEND TO WITHIN ½ INCH OF THE INNER SURFACE OF THE PIPE.

EYE BOLT AND TIE ROD ASSEMBLY (ALTERNATE NO. 1)



(TONGUE & GROOVE PIPE)



(MODIFIED BELL PIPE)

LONGITUDINAL SECTION

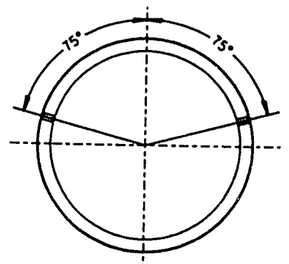
EYE BOLT DIMENSION TABLE

PIPE SIZE	L = LENGTH	
	TONGUE & GROOVE PIPE	MODIFIED BELL PIPE
18" TO 24"	4 ½"	6 ¼"
30"	5"	7"
36"	5 ½"	7"
42"	6"	
48"	6 ½"	
60"	7 ½"	
66"	8"	

ADJUSTABLE TIE ROD TABLE

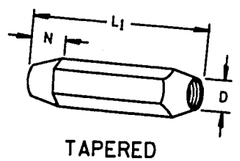
PIPE DIAMETER	TIE ROD DIAMETER	D	L_1	N
12-60	⅝	⅝	5	½
66-84	¾	¾	5	½
90-108	1	1	7	1 7/16

DIMENSIONS SHOWN ARE IN INCHES

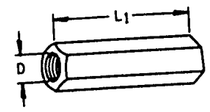


PLACEMENT OF (2) CAST-IN-PLACE INSERTS OR HOLES DURING FABRICATION FOR PIPE SECTIONS REQUIRING TIE RODS

TRANSVERSE SECTION



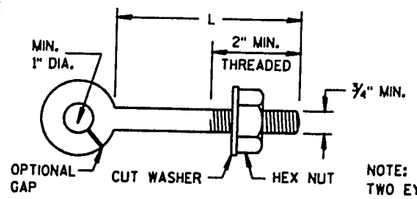
TAPERED



PLAIN

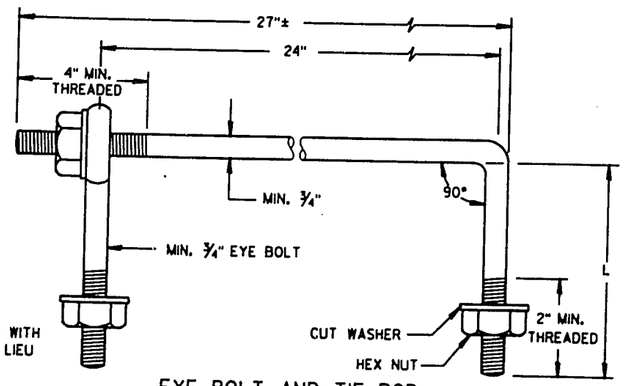
RIGHT AND LEFT THREADS

SLEEVE NUTS



EYE BOLT

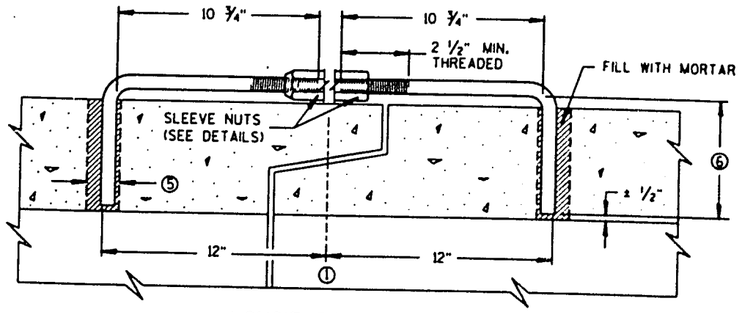
NOTE:
TWO EYE BOLTS MAY BE USED WITH A 30" LONG THREADED ROD IN LIEU OF THE 90° BENT TIE ROD.



EYE BOLT AND TIE ROD

(JOINT TIES FOR 18" TO 66" DIA. CONCRETE PIPE)

EYE BOLT AND TIE ROD ASSEMBLY (ALTERNATE NO. 2)



LONGITUDINAL SECTION

(JOINT TIES FOR 12" TO 108" DIA. CONCRETE PIPE)

ADJUSTABLE TIE ROD (ALTERNATE NO. 3)

JOINT TIES FOR CONCRETE PIPE

STATE OF WISCONSIN
DEPARTMENT OF TRANSPORTATION

APPROVED 8/10/72 DATE

STATE DESIGN ENGINEER FOR HWYS

FHWA

S.D.D. 8 F 4-5

S.D.D. 8 F 4-5

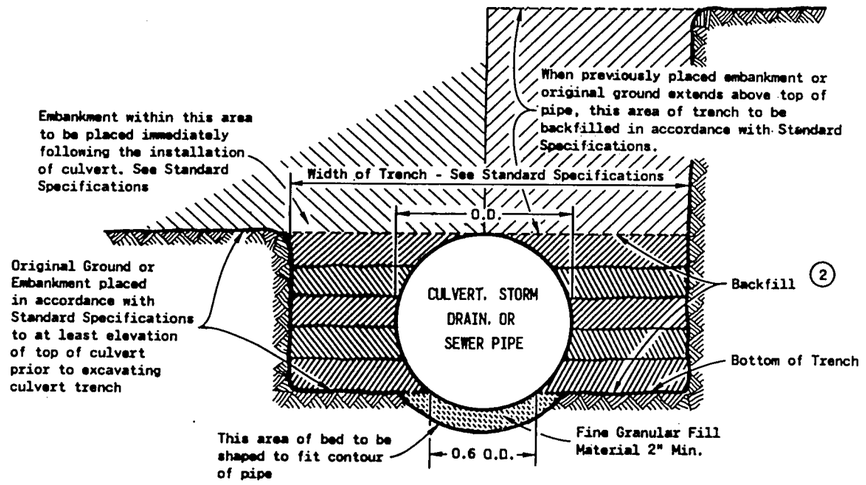
GENERAL NOTES

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

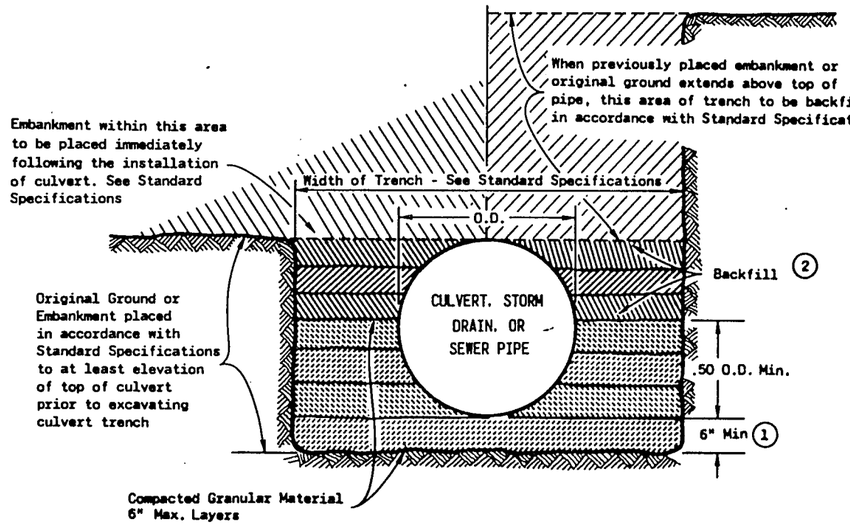
The shaped subgrade with granular foundation is an equal alternate to the granular foundation except where rock is encountered.

(1) Where rock, hard pan or fragmented material is encountered, the trench shall be excavated below the bottom of the pipe an amount equal to $\frac{1}{2}$ inch per foot of proposed embankment above the top of the pipe, but not less than 6 inches.

(2) Trench shall be backfilled as required by Standard Specifications Section 520 for pipe culverts and Section 607 for storm sewers.



SHAPED SUBGRADE WITH GRANULAR FOUNDATION



GRANULAR FOUNDATION

CLASS "B" BEDDING

CLASS "B" BEDDING FOR CULVERT PIPE OR STORM SEWER

State of Wisconsin
Department of Transportation

APPROVED 4-7-83
DATE

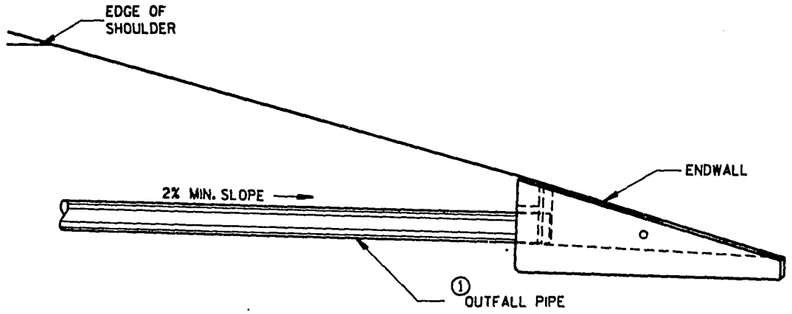
CHIEF DESIGN ENGINEER

S.D.D. 8 F 5-1

S.D.D. 8 F 5-1

DIMENSIONS IN INCHES											
PIPE DIA.	A	B	C	D	E	F	G	H	J	L	M
**4	6	12	5 1/4	9	8	32	36	11	2 3/8	6 1/2	4
6	8	14	7 1/4	11	10	42	44	13	3 5/8	8 1/2	6

**APRON ENDWALL FOR 6 INCH DIAMETER PIPE MAY BE SUBSTITUTED FOR THIS SIZE PROVIDED THE HOLE IN THE HEADWALL IS SIZED AND LOCATED TO CONFORM TO THE 4 INCH DIAMETER PIPE DIMENSIONS (C & J)



INSTALLATION DETAIL

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.

ALTERNATIVE DESIGNS WHICH PROVIDE EQUIVALENT CAPACITY AND STRENGTH MAY BE USED WHEN APPROVED BY THE ENGINEER. ENDWALL MAY BE EITHER PRECAST OR CAST-IN-PLACE CONCRETE.

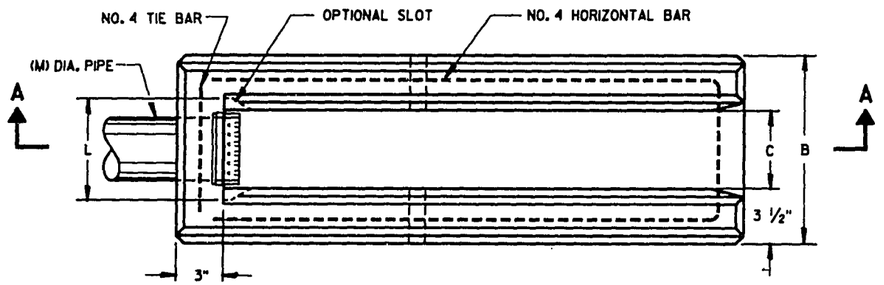
THE UNDERDRAIN PIPE SHALL BE FULLY INSERTED AND SEALED INTO THE ENDWALL WITH CEMENT MORTAR PRIOR TO BACKFILLING AROUND THE STRUCTURE.

THE UPPERMOST POINT OF THE ENDWALL SHALL BE PLACED FLUSH WITH THE ROADWAY SLOPE. ADJACENT EMBANKMENT SLOPES SHALL BE SHAPED TO FIT THE SIDES AND TOE OF THE ENDWALL. EXACT PLACEMENT OF THE OUTFALL PIPE AND ENDWALL SHALL BE DETERMINED BY THE ENGINEER TO MATCH THE ELEVATIONS AND FLOW DIRECTION OF THE ROADSIDE DITCH.

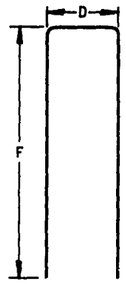
① THE OUTFALL PIPE UNDERDRAIN AND FITTINGS SHALL CONFORM TO THE REQUIREMENTS OF THE SPECIFICATION FOR POLY (VINYL CHORIDE) (PVC) PLASTIC DRAIN, WASTE AND VENT PIPE AND FITTINGS, ASTM DESIGNATION: D 2665, SCHEDULE 40 PVC OR THE STANDARD SPECIFICATION FOR TYPE PSM POLY (VINYL CHORIDE) (PVC) SEWER PIPE AND FITTINGS, ASTM DESIGNATION: D 3034, TYPE PSM SDR 23.5 PVC SEWER PIPE. ALL JOINTS SHALL BE SOLVENT WELDED.

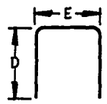
THE OUTFALL PIPE INCLUDING ALL FITTINGS AND THE RODENT SHIELD SHALL BE MEASURED AND PAID FOR AS PIPE UNDERDRAIN UNPERFORATED.

② THE RODENT SHIELD SHALL BE A PVC GRATE SIMILAR TO THIS DETAIL. THE GRATE IS COMMERCIALLY AVAILABLE AS A FLOOR STRAINER. A PIPE COUPLING IS REQUIRED FOR THE ATTACHMENT OF THIS SHIELD TO THE OUTFALL PIPE. THE SHIELD SHALL BE FASTENED TO THE PIPE COUPLING WITH TWO OR MORE NO. 10 X 1-INCH STAINLESS STEEL SHEET METAL SCREWS.

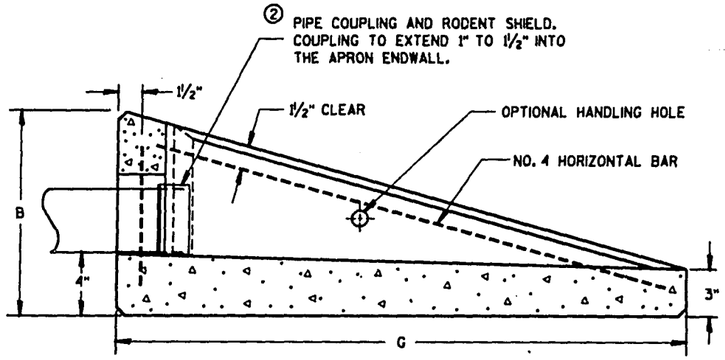


PLAN VIEW

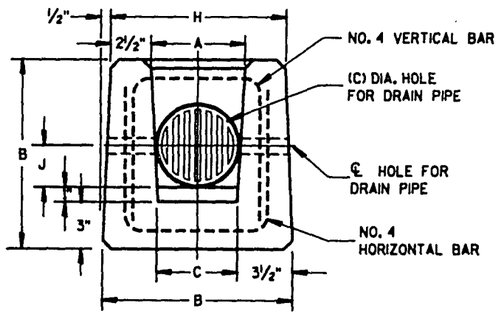




BAR STEEL REINFORCEMENT DETAILS

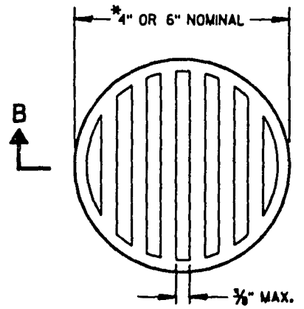


SECTION A-A

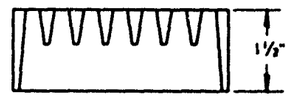


END VIEW

CONCRETE APRON ENDWALL FOR UNDERDRAIN



NOTE: ORIENT SHIELD SO SLOTS ARE VERTICAL.



SECTION B-B

② RODENT SHIELD

*NOTE: DIMENSIONS ARE APPROXIMATE. THE GRATE IS SIZED TO FIT INTO A PIPE COUPLING.

REINFORCED
CONCRETE APRON ENDWALL
FOR PIPE UNDERDRAIN

STATE OF WISCONSIN
DEPARTMENT OF TRANSPORTATION

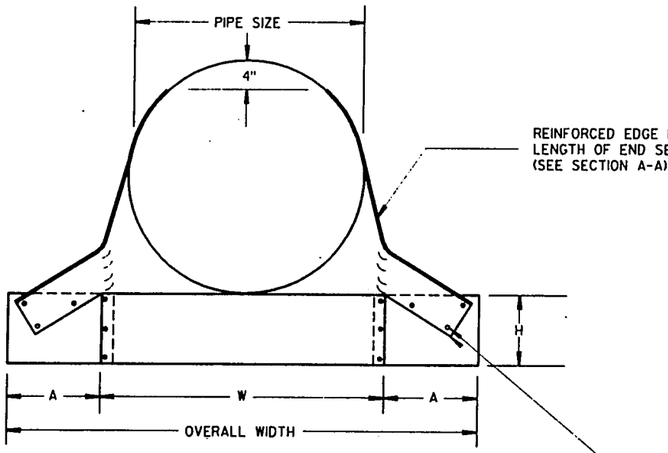
APPROVED 1/19/93
DATE

STATE DESIGN ENGINEER FOR HWYS

FHWA

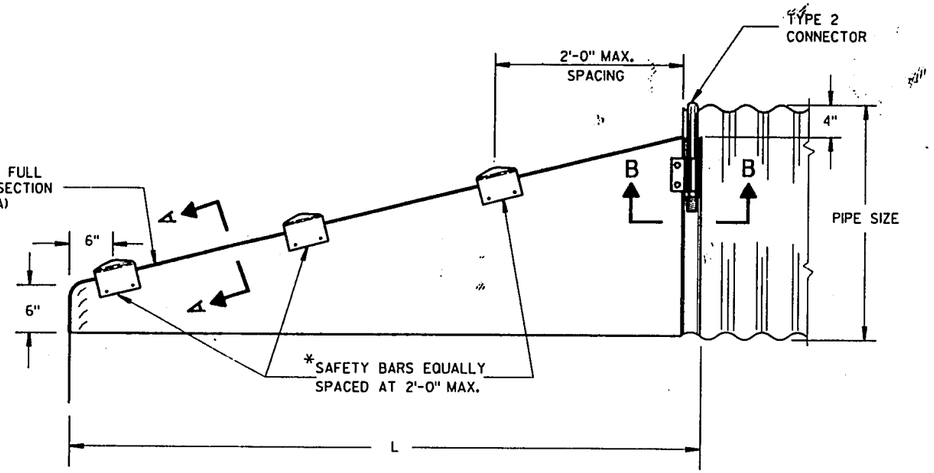
S.D.D. 8 F 6-3

S.D.D. 8 F 6-3



FRONT VIEW

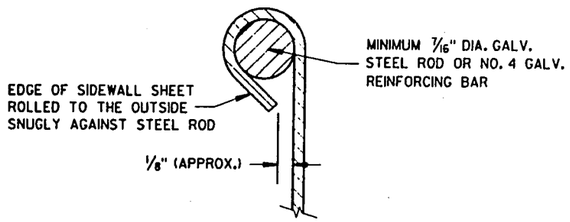
BOLTS, RIVETS, OR RESISTANCE SPOT WELDS WHICH WILL HOLD THE SURFACES TIGHTLY TOGETHER



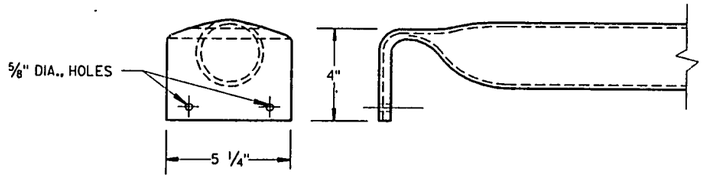
SIDE VIEW

*NOTE:
THREE SAFETY BARS ARE SHOWN. ACTUAL NUMBER OF BARS REQUIRED AT A 2'-0" C-C MAX. SPACING WILL VARY DEPENDING ON THE LENGTH OF THE END SECTION.

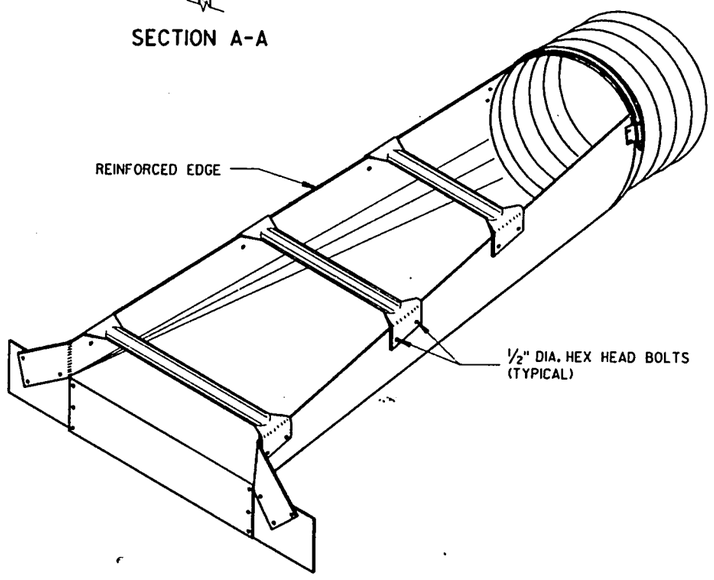
3" GALVANIZED PIPE. FLATTEN ENDS, THEN BEND OUTSIDE 4" TO MATCH END SECTION SIDES.



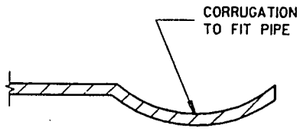
SECTION A-A



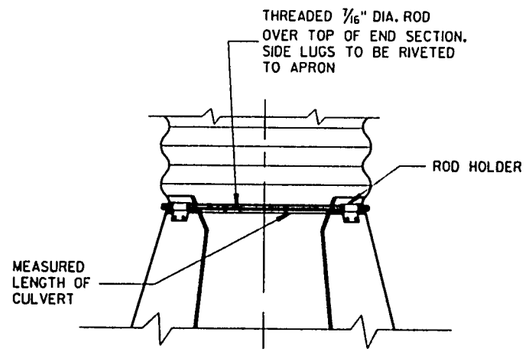
DETAIL OF SAFETY BAR



ISOMETRIC VIEW



SECTION B-B



TYPE 2
CONNECTION DETAIL

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.

SLOPED END SECTIONS SHALL CONFORM TO THE REQUIREMENTS OF THE STANDARD SPECIFICATIONS, SECTION 521 FOR STEEL APRON ENDWALLS.

SAFETY BARS SHALL BE FABRICATED FROM GALVANIZED STEEL PIPE MEETING THE REQUIREMENTS OF ASTM A-53, GRADE B, SCHEDULE 40 OR APPROVED EQUAL.

STEEL APRON ENDWALLS FOR CULVERT PIPE

PIPE DIA. (IN.)	MIN. THICK. (Inches)	DIMENSIONS (Inches)				L DIMENSIONS	
		A	H	W	OVERALL WIDTH	SLOPE	LENGTH INCHES
15	.064	8	6	21	37	6:1	30
18	.064	8	6	24	40	6:1	48
21	.064	8	6	27	43	6:1	66
24	.064	8	6	30	46	6:1	84
30	.109	12	9	36	60	6:1	120
36	.109	12	9	42	66	6:1	156
42	.109	16	12	48	80	5.63 TO 1	180
48	.109	16	12	54	86	4.74 TO 1	180
54	.109	16	12	60	92	——	——

STEEL APRON ENDWALLS FOR PIPE ARCH

EQUIV. DIA. (Inches)	(Inches)		MIN. THICK. (Inches)	DIMENSIONS (Inches)				L DIMENSIONS	
	SPAN	RISE		A	H	W	OVERALL WIDTH	SLOPE	LENGTH INCHES
15	17	13	.064	8	6	23	39	6:1	18
18	21	15	.064	8	6	27	43	6:1	30
21	24	18	.064	8	6	30	46	6:1	48
24	28	20	.064	8	6	34	50	6:1	60
30	35	24	.079	12	9	41	65	6:1	84
36	42	29	.109	12	9	48	72	6:1	114
42	49	33	.109	16	12	55	87	6:1	138
48	57	38	.109	16	12	63	95	6:1	168
54	64	43	.109	16	12	70	102	5.45 TO 1	180

STEEL APRON ENDWALLS FOR CULVERT PIPE AND PIPE ARCH SLOPED SECTION

STATE OF WISCONSIN
DEPARTMENT OF TRANSPORTATION

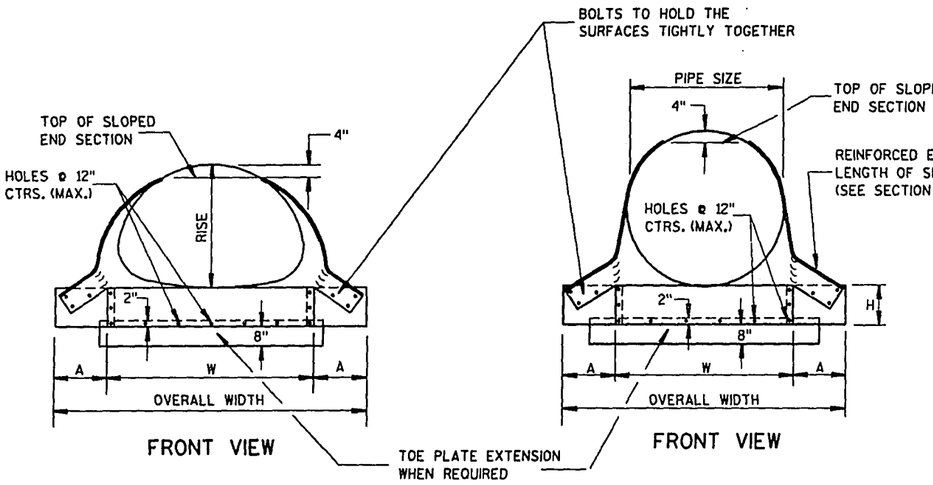
APPROVED 6/24/04 DATE

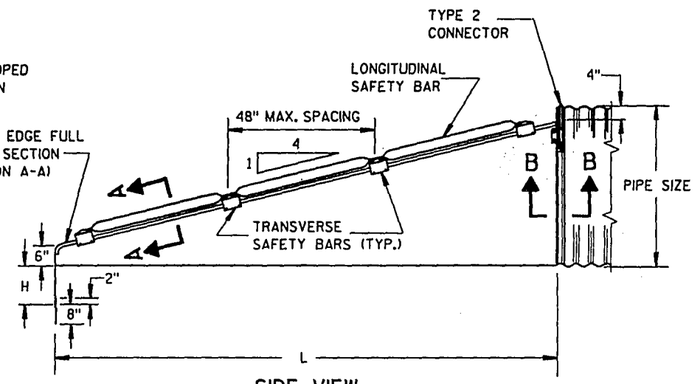
STATE DESIGN ENGINEER FOR HWYS

FHWA

S.D.D. 8 F 7-2

S.D.D. 8 F 7-2





SIDE VIEW
(48" SIZE ILLUSTRATED)

GENERAL NOTES

DETAILS OF CONSTRUCTION, MATERIALS AND WORKMANSHIP NOT SHOWN ON THIS DRAWING SHALL CONFORM TO THE PERTINENT REQUIREMENTS OF THE STANDARD SPECIFICATIONS AND APPLICABLE SPECIAL PROVISIONS.

SAFETY GRATES SHALL BE FABRICATED FROM 3-INCH DIAMETER GALVANIZED PIPE MEETING THE REQUIREMENTS OF ASTM A-53, GRADE B, SCHEDULE 40 OR APPROVED EQUAL. THE LONGITUDINAL BAR SHALL BE WELDED TO THE TRANSVERSE BARS WHERE THE BARS CROSS. THE NUMBER OF TRANSVERSE BARS REQUIRED WILL VARY DEPENDING ON THE LENGTH OF THE END SECTION.

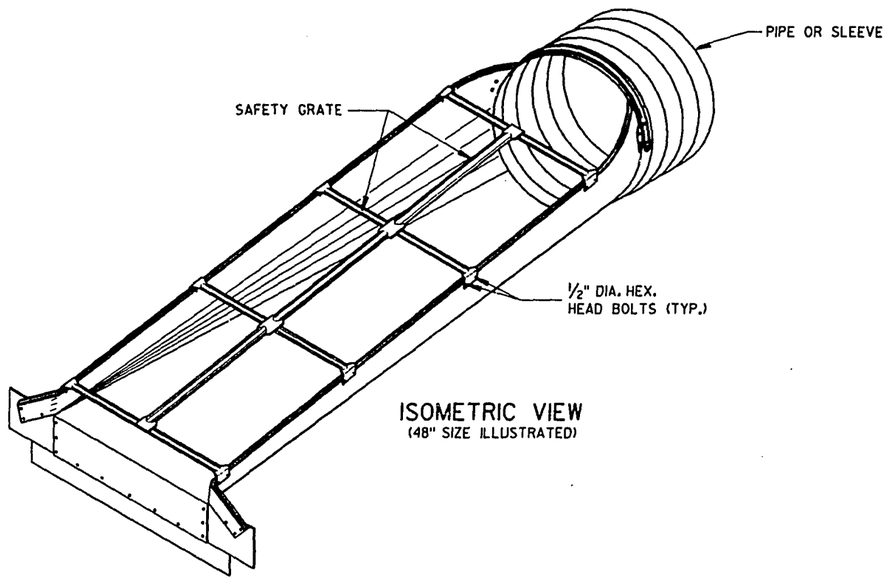
SLOPED STEEL ENDWALLS LOCATED AT THE ENDS OF CONCRETE CULVERT PIPE SHALL BE FURNISHED WITH STEEL ADAPTER SLEEVES.

SLOPED STEEL ENDWALLS FOR CULVERT PIPE CROSS DRAINS

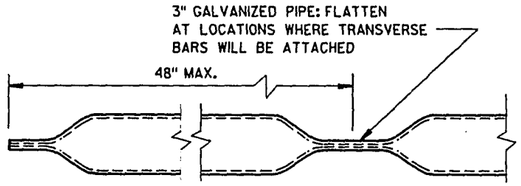
PIPE DIA. (IN.)	MIN. THICK.		DIMENSIONS (Inches)				L DIMENSIONS	
	IN.	GAGE	A	H	W	OVERALL WIDTH	SLOPE	LENGTH INCHES
36	.109	12	12	9	42	66	4:1	104
42	.109	12	16	12	48	80	4:1	128
48	.109	12	16	12	54	86	4:1	152
54	.109	12	16	12	60	92	4:1	176
60	.109	12	16	12	66	98	4:1	200

SLOPED STEEL ENDWALLS FOR PIPE ARCH CROSS DRAINS

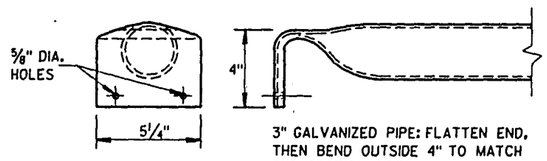
EQUIV. DIA. (IN.)	INCHES		MIN. THICK.		DIMENSIONS (Inches)				L DIMENSIONS	
	SPAN	RISE	IN.	GAGE	A	H	W	OVERALL WIDTH	SLOPE	LENGTH INCHES
36	42	29	.079	12	12	9	48	72	4:1	76
42	49	33	.109	12	16	12	55	87	4:1	92
48	57	38	.109	12	16	12	63	95	4:1	112
54	64	43	.109	12	16	12	70	102	4:1	132
60	71	47	.109	12	16	12	77	109	4:1	148



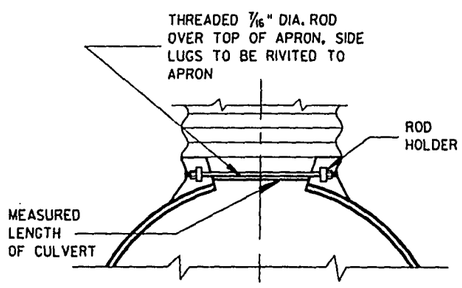
ISOMETRIC VIEW
(48" SIZE ILLUSTRATED)



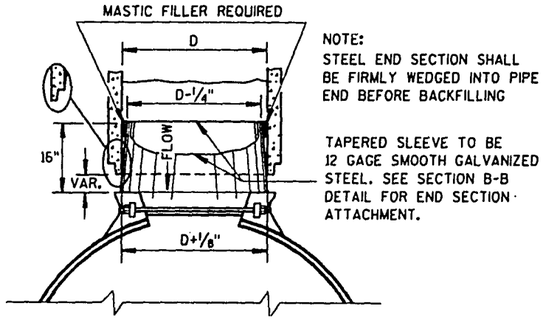
LONGITUDINAL SAFETY BAR



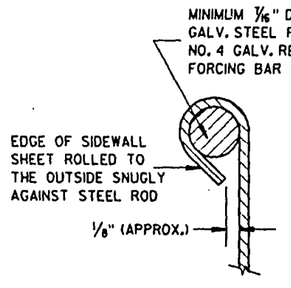
TRANSVERSE SAFETY BAR



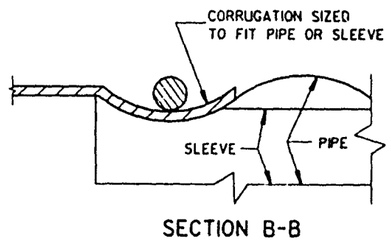
TYPE 2 CONNECTOR DETAIL



STEEL ADAPTER SLEEVE FOR CONCRETE PIPE



SECTION A-A



SECTION B-B

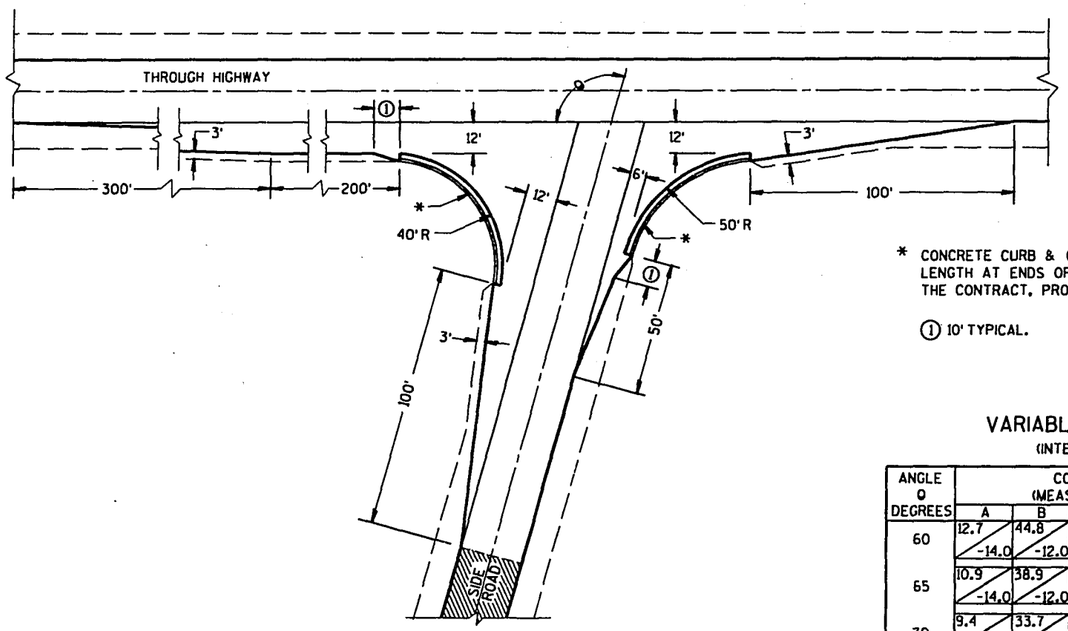
SLOPED STEEL ENDWALLS FOR CULVERT PIPE AND PIPE ARCH CROSS DRAINS

STATE OF WISCONSIN
DEPARTMENT OF TRANSPORTATION

APPROVED
7/6/92
DATE
STATE DESIGN ENGINEER FOR HWYS
FHWA

S.D.D. 8 F 8-1

S.D.D. 8 F 8-1



θ = 80° OR MORE

EXISTING SURFACE

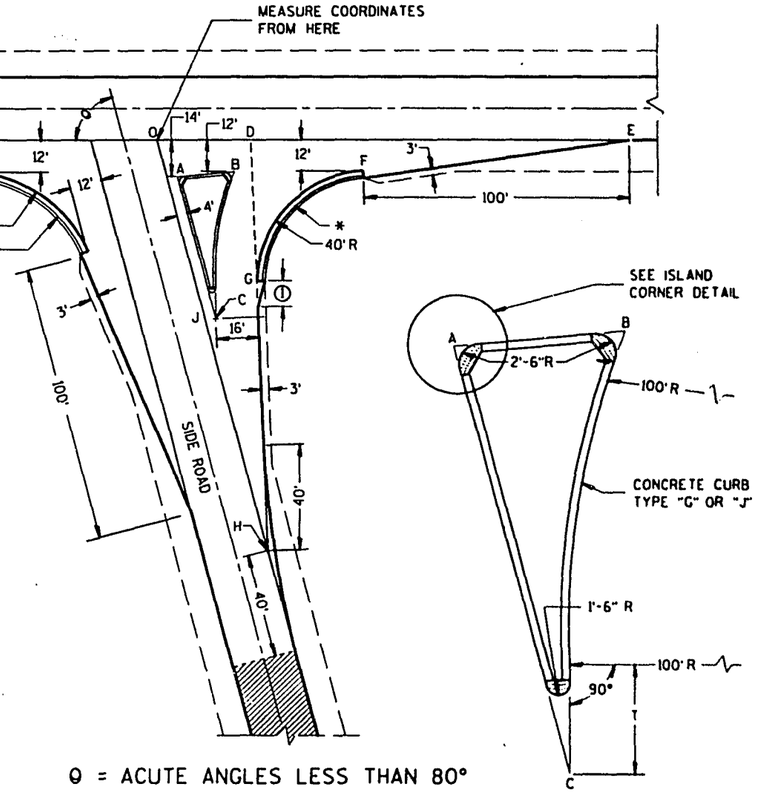
* CONCRETE CURB & GUTTER 36". TAPER CURB HEIGHT 0" TO 6" IN 10'-0" LENGTH AT ENDS OF CURB & GUTTER SECTIONS. WHEN SPECIFIED ELSEWHERE IN THE CONTRACT, PROVIDE CURB OPENING AND FLUME.

① 10' TYPICAL.

TABLE OF DIMENSIONS FOR VARIABLE SIDE ROAD INTERSECTION ANGLES

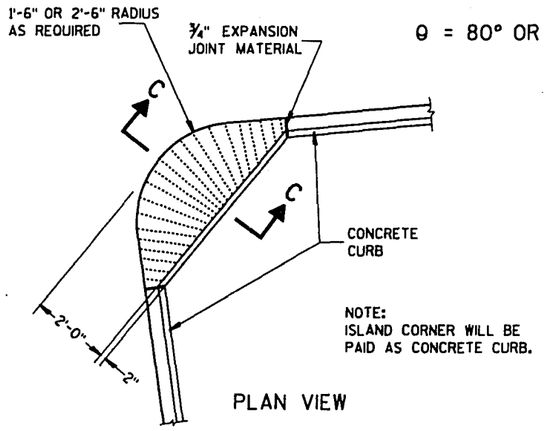
(INTERPOLATE VALUES FOR ANGLES NOT SHOWN)

ANGLE θ DEGREES	COORDINATES IN FEET (MEASURED FROM POINT "O") X / Y								LENGTH IN FEET				
	A	B	C	D	E	F	G	H	AB	AC	T	OJ	OH
60	12.7 / -14.0	44.8 / -12.0	46.4 / -72.4	41.9 / 0.0	193.9 / 0.0	93.9 / -12.0	60.3 / -62.9	85.0 / -147.1	32.3	67.4	4.9	85.9	169.9
65	10.9 / -14.0	38.9 / -12.0	37.8 / -71.6	39.4 / 0.0	186.1 / 0.0	86.1 / -12.0	51.7 / -59.8	70.5 / -151.3	28.1	63.6	8.5	80.9	166.9
70	9.4 / -14.0	33.7 / -12.0	29.8 / -70.1	37.4 / 0.0	179.2 / 0.0	79.2 / -12.0	44.3 / -56.5	56.1 / -154.2	24.6	59.7	11.5	76.1	164.1
75	7.9 / -14.0	29.2 / -12.0	22.3 / -67.9	35.7 / 0.0	173.0 / 0.0	73.0 / -12.0	37.8 / -53.3	41.8 / -155.9	21.6	55.8	13.8	71.4	161.4
80	6.5 / -14.0	25.2 / -12.0	15.6 / -65.2	34.4 / 0.0	167.4 / 0.0	67.4 / -12.0	32.2 / -50.0	27.6 / -156.5	18.9	52.0	15.6	66.9	158.9



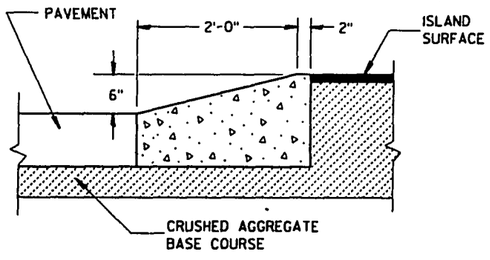
θ = ACUTE ANGLES LESS THAN 80°

TYPE "A" SIDE ROAD INTERSECTION DETAILS



NOTE:
ISLAND CORNER WILL BE PAID AS CONCRETE CURB.

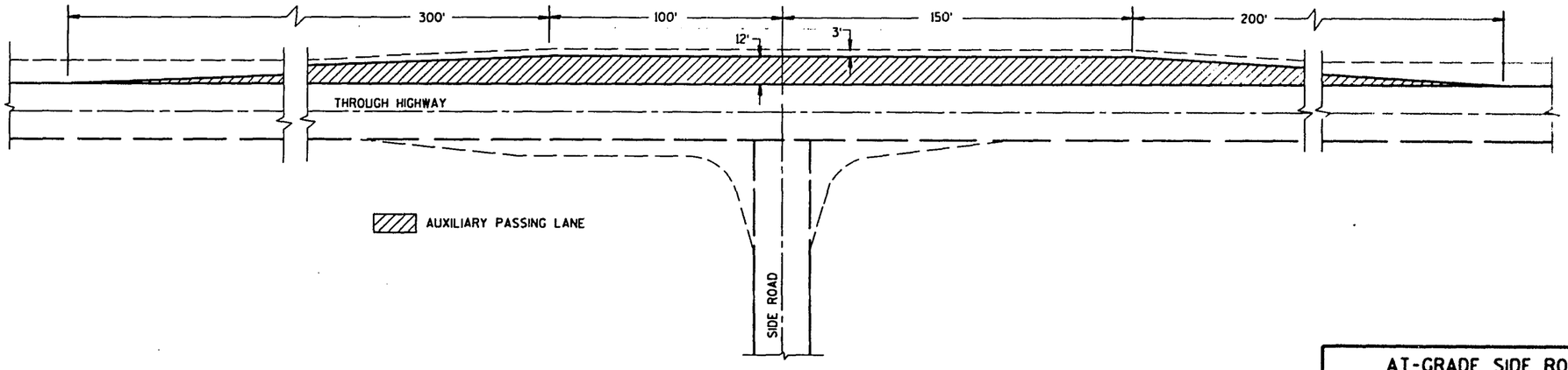
PLAN VIEW



SECTION C-C

ISLAND CORNER DETAIL

(TO BE CONSTRUCTED AT ALL ISLAND CORNERS)



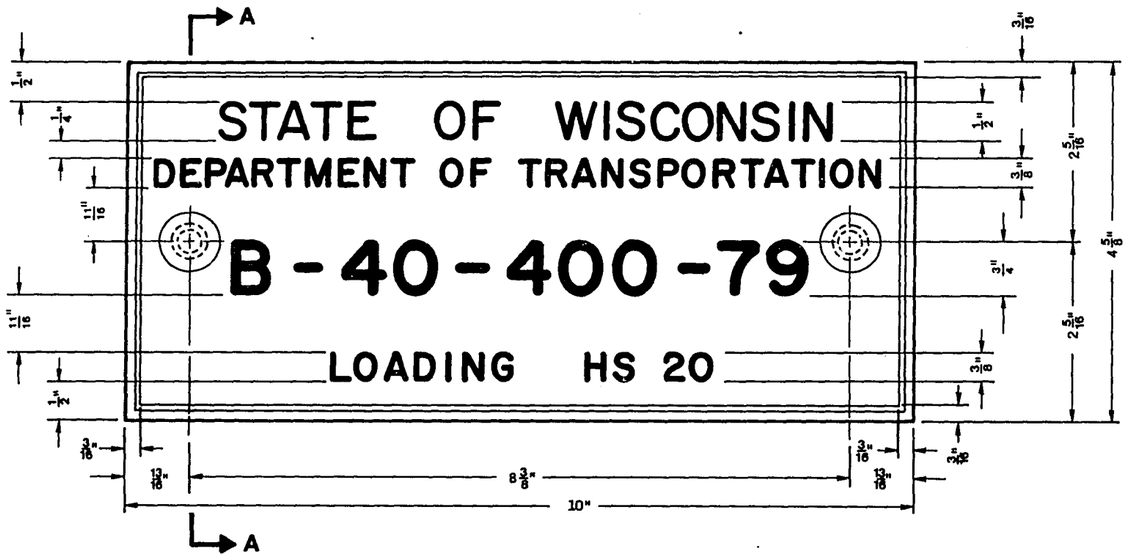
PASSING LANE DETAIL

AT-GRADE SIDE ROAD INTERSECTION, TYPE 'A' AND PASSING LANE

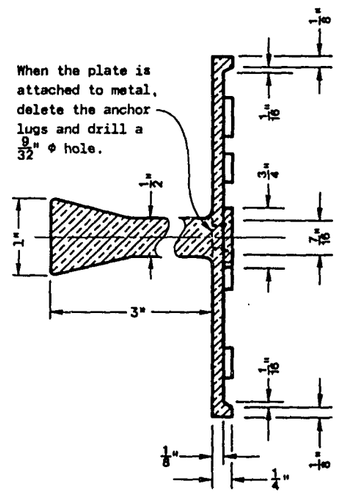
STATE OF WISCONSIN
DEPARTMENT OF TRANSPORTATION

S.D.D. 9 A 1-96

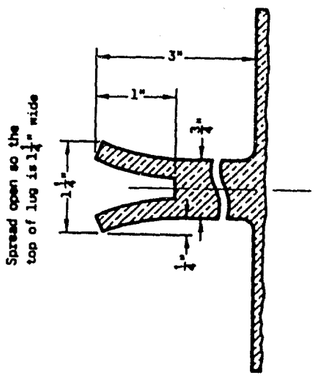
S.D.D. 9 A 1-96



TYPICAL NAME PLATE
(BRIDGES, CULVERTS, AND RETAINING WALLS)



SECTION A-A



ALTERNATE LUG

FOR MULTI-UNIT STRUCTURES LINES 4 AND 5 ABOVE SHALL READ:

B = Bridge
C = Culvert
RW = Retaining Wall

Year of Substantial Completion

County No.

Bridge No.

B-40-400-79

UNIT 1A HS 20M

Unit No. for Multiple Unit

Design Loading of Structure Indicated on the Plan

NUMBERING AND LOADING DESIGNATION
MULTI-UNIT STRUCTURES

GENERAL NOTES

Name Plates to be installed on Bridges, Culverts, and Retaining Walls shall conform to the requirements of Section 506.2.4 of the Standard Specifications.

The Bridge Number and Design Loading shown on this drawing are examples only. See Construction Plans for individual numbering and design loading.

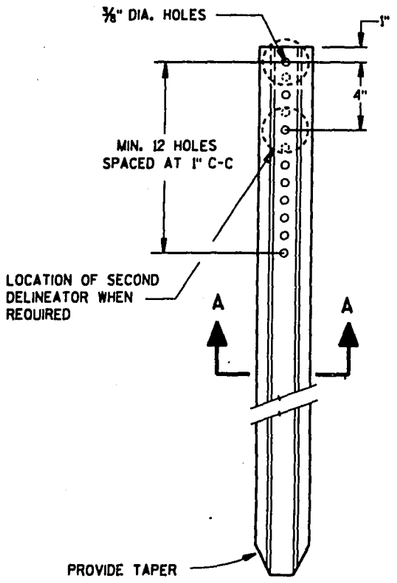
NAME PLATE (STRUCTURES)

State of Wisconsin
Department of Transportation
Division of Transportation Facilities

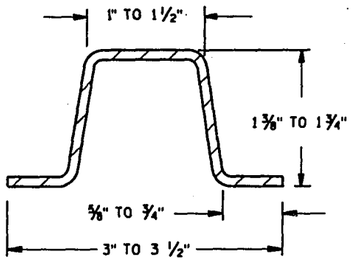
APPROVED 9-27-79 DATE

S.D.D. 12 A 3-4

S.D.D. 12 A 3-4

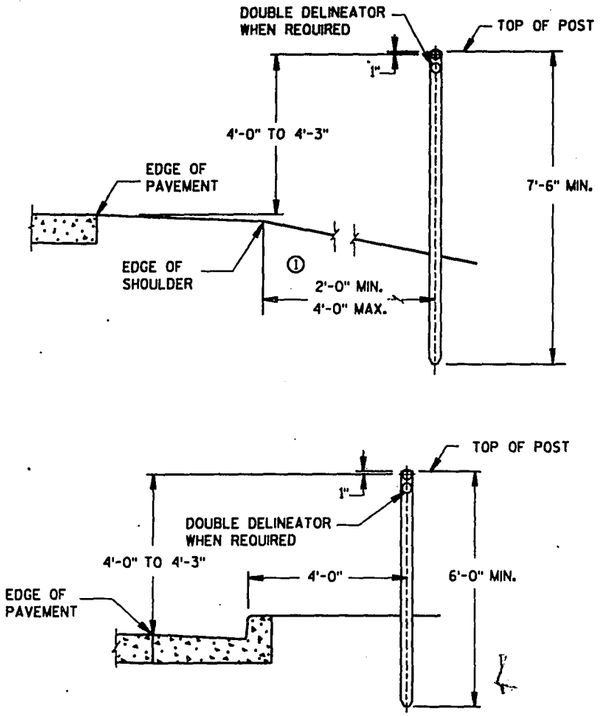


DELINEATOR POST



SECTION A-A

WEIGHT 2.0 LBS PER FT. ± 0.1 LB.



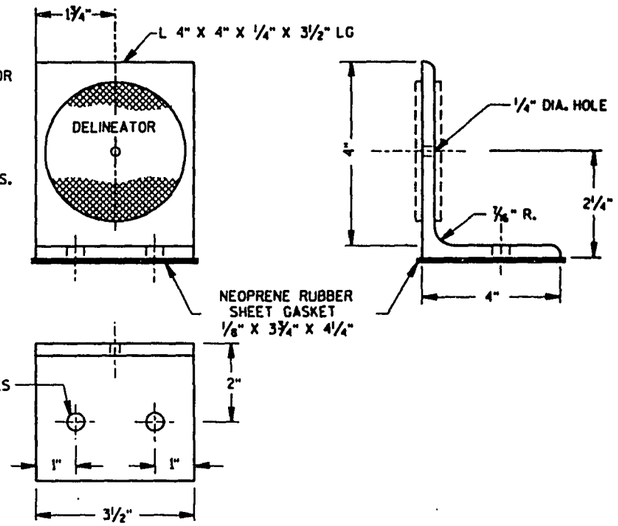
TYPICAL INSTALLATIONS OF DELINEATOR POSTS

GENERAL NOTES

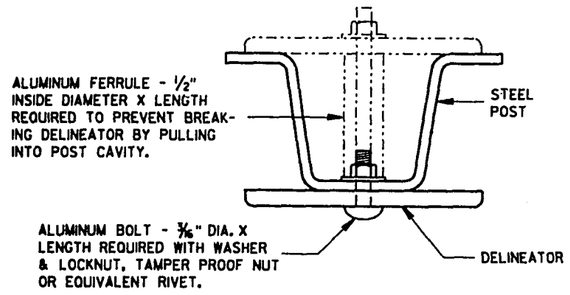
DETAILS OF CONSTRUCTION NOT SHOWN ON THIS DRAWING SHALL CONFORM TO THE PERTINENT REQUIREMENTS OF THE STANDARD SPECIFICATIONS AND THE APPLICABLE SPECIAL PROVISIONS.

① DELINEATORS SHALL BE PLACED AT A CONSTANT DISTANCE FROM THE EDGE OF THE ROADWAY FOR THE LENGTH OF THE INSTALLATION.

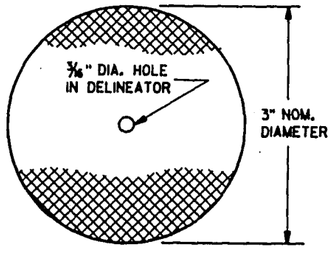
NOTE:
FASTEN DELINEATOR TO BRACKET WITH BOLTS ⅜" DIA. X LENGTH REQ'D. WITH WASHER AND LOCKNUT OR EQUIVALENT RIVETS.



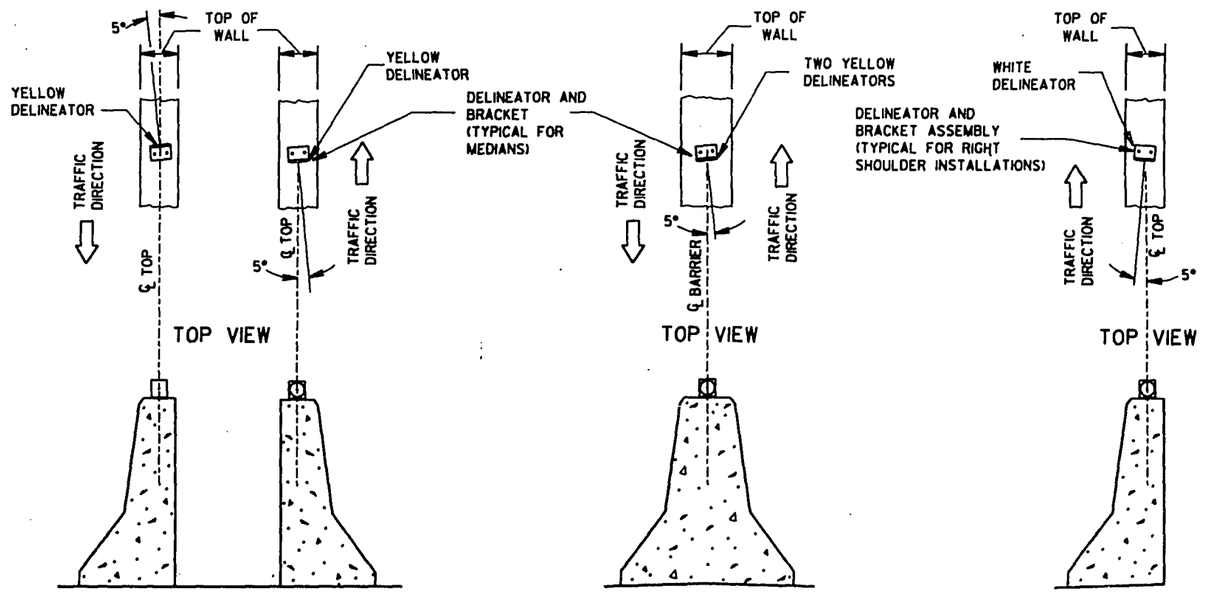
DELINEATOR BRACKET



MOUNTING DETAIL FOR DELINEATOR

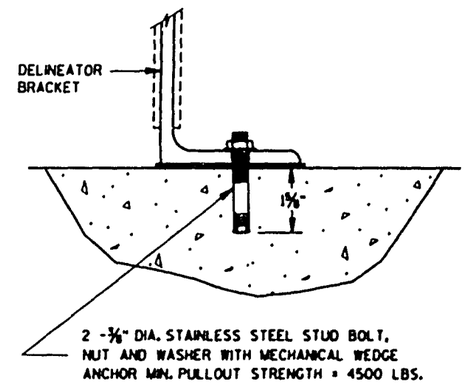


DELINEATOR



DOUBLE BARRIERS IN MEDIAN | MEDIAN BARRIER | BARRIER LOCATED TO RT. OF TRAFFIC FLOW

LOCATION AND AIMING DETAILS FOR DELINEATORS MOUNTED ON CONCRETE BARRIERS



DELINEATOR BRACKET MOUNTING DETAIL

DELINEATOR POST, DELINEATOR BRACKET AND DELINEATOR

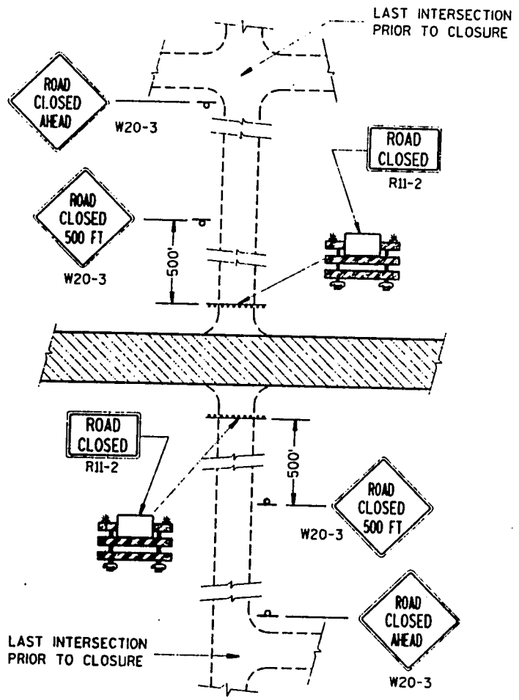
STATE OF WISCONSIN
DEPARTMENT OF TRANSPORTATION

APPROVED 1/4/93 DATE
STATE TRAFFIC ENGINEER FOR HSTS

FHWA

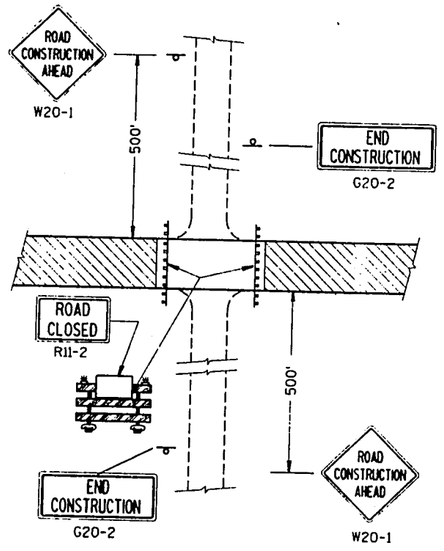
S.D.D. 15 A 2-4

S.D.D. 15 A 2-4



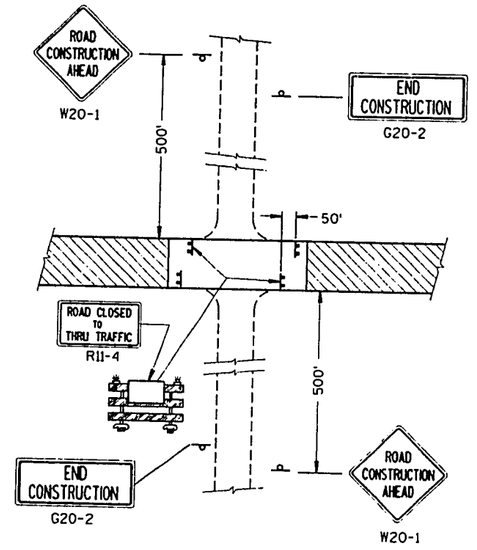
DETAIL 1

(NO ACCESS TO PROJECT)



DETAIL 2

(PUBLIC CROSS-TRAFFIC MAINTAINED. NO ACCESS TO PROJECT).



DETAIL 3

(PUBLIC CROSS-TRAFFIC MAINTAINED. CONTRACTOR, LOCAL BUSINESS AND RESIDENT ACCESS).

GENERAL NOTES

DETAILS OF TRAFFIC CONTROL DEVICES AND THEIR LOCATION NOT SHOWN ON THIS DRAWING SHALL CONFORM TO THE PERTINENT REQUIREMENTS OF THE WISCONSIN MANUAL OF TRAFFIC CONTROL DEVICES, THE PLANS, SPECIFICATIONS AND CONTRACT.

SIGN AND BARRICADE LOCATIONS MAY BE ADJUSTED IN THE FIELD AS DIRECTED BY THE ENGINEER. ANY EXISTING TRAFFIC SIGNS THAT CONFLICT WITH THIS WORK SHALL BE COVERED AS DIRECTED BY THE ENGINEER. ALL "STOP" OR OTHER REGULATORY SIGNS ON THE SIDE ROADS SHALL NOT BE DISTURBED, EXCEPT WHEN NECESSARY TO COMPLETE THE WORK. THE SIGNS MUST THEN BE IMMEDIATELY REESTABLISHED.

ALL TYPE III BARRICADES SHALL HAVE RAILS REFLECTORIZED ON BOTH FACES. STRIPES SHALL BE PROPERLY SLOPED DOWN TOWARD THE TRAFFIC SIDE OR AS SHOWN IN THE ROAD CLOSURE BARRICADE DETAIL FOR FULL ROAD CLOSURES. TYPE "A" LOW INTENSITY FLASHING WARNING LIGHTS SHALL BE VISIBLE ON BOTH SIDES OF THE BARRICADE.

THE ROAD CLOSED SIGN (R11-2), ROAD CLOSED ___ MILES AHEAD SIGN (R11-3) AND THE ROAD CLOSED TO THRU TRAFFIC SIGN (R11-4) SHALL BE ATTACHED ONLY TO THE TOP RAIL OF THE TYPE III BARRICADE. THE SIGNS SHALL NOT COVER MIDDLE RAIL.

TYPE "H" REFLECTIVE SHEETING SHALL BE USED ON ALL BARRICADES, TYPE I, II AND III, AND ON ALL R11-2, R11-3 AND R11-4 SIGNS.

ALL SIGNS SHALL BE 48" X 48" UNLESS OTHERWISE NOTED BELOW:
- R11-2, "ROAD CLOSED" SIGNS SHALL BE 48" X 30".
- R11-3, AND R11-4 SIGNS SHALL BE 60" X 30".
- G20-2 SIGNS SHALL BE 60" X 24".

(1) TWO WARNING LIGHTS SHALL BE PROVIDED ON THE CENTER BARRICADE AND AT LEAST ONE WARNING LIGHT SHALL BE PROVIDED ON EACH OF THE OTHER BARRICADES WITHIN THE ROADWAY LIMITS. SPACING OF THE WARNING LIGHTS SHALL BE UNIFORM TO THE EDGE OF ROADWAY AS SHOWN.

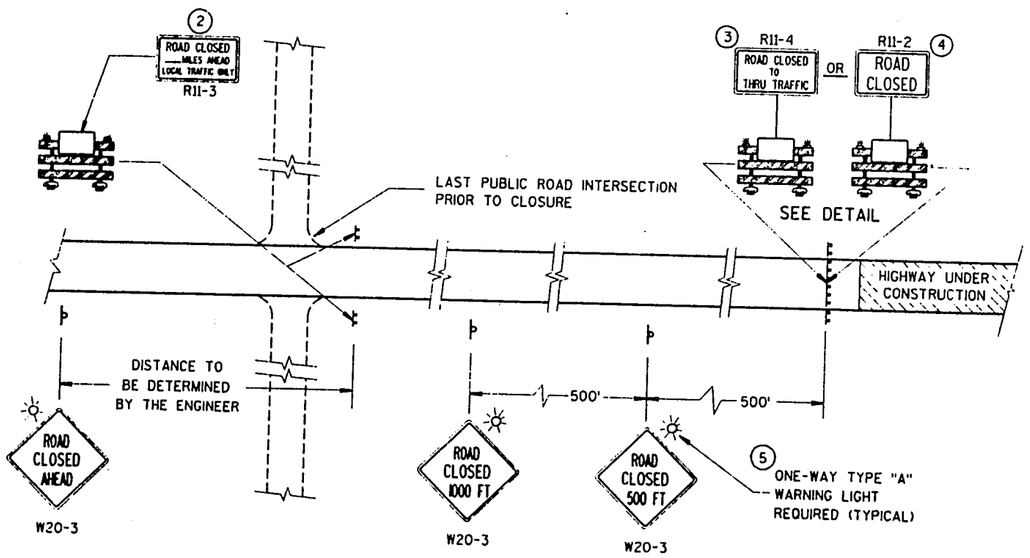
(2) THESE SIGNS AND BARRICADES ARE NOT REQUIRED IF ROAD CLOSURE BEGINS AT INTERSECTION.

(3) FOR ROAD CLOSURE WITH LOCAL ACCESS TO PROJECT. SEE LANE CLOSURE BARRICADE DETAIL.

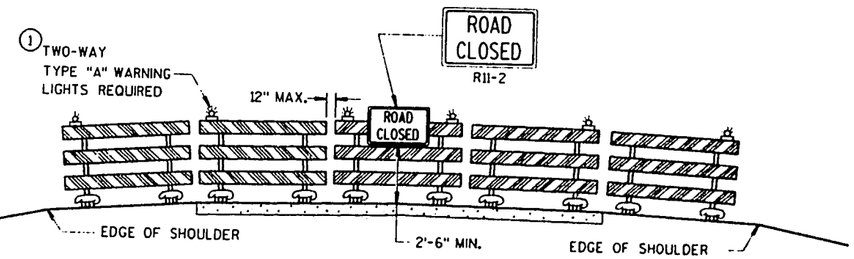
(4) FOR ROAD CLOSURE WITHOUT LOCAL ACCESS TO PROJECT. SEE ROAD CLOSURE BARRICADE DETAIL.

(5) ONE-WAY LIGHTS SHALL BE PROVIDED ON ALL ADVANCE WARNING SIGNS. THE UNIT SHALL BE POSITIONED SUCH THAT THE LIGHT SOURCE IS OUTSIDE THE SIGN FACE AND AT THE TOP OF THE SIGN.

SIDEROAD CLOSURES

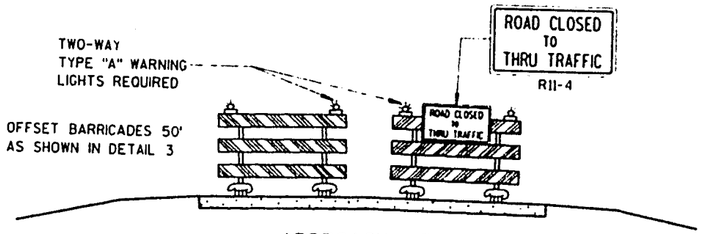


MAINLINE CLOSURE



APPROACH VIEW

ROAD CLOSURE BARRICADE DETAIL



APPROACH VIEW

LANE CLOSURE BARRICADE DETAIL

LEGEND

- POST MOUNTED WARNING SIGN
- TYPE III BARRICADES WITH TYPE "H" REFLECTIVE SHEETING
- TYPE "A" LOW INTENSITY FLASHING WARNING LIGHT (FOR NIGHT USE)
- WORK AREA

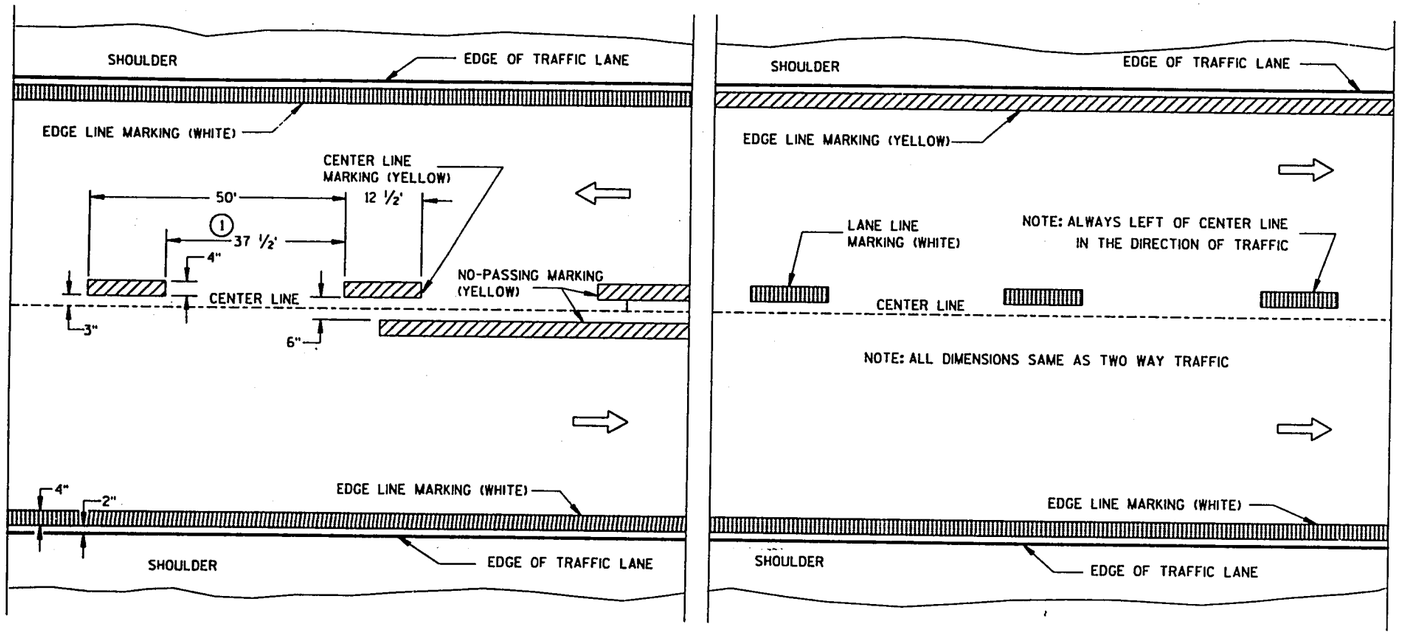
BARRICADES AND TRAFFIC CONTROL FOR ROAD CLOSURES

STATE OF WISCONSIN
DEPARTMENT OF TRANSPORTATION

APPROVED
10-31-89
DATE
STATE TRAFFIC ENGINEER FOR FHWA

S.D.D. 15 C 2-2

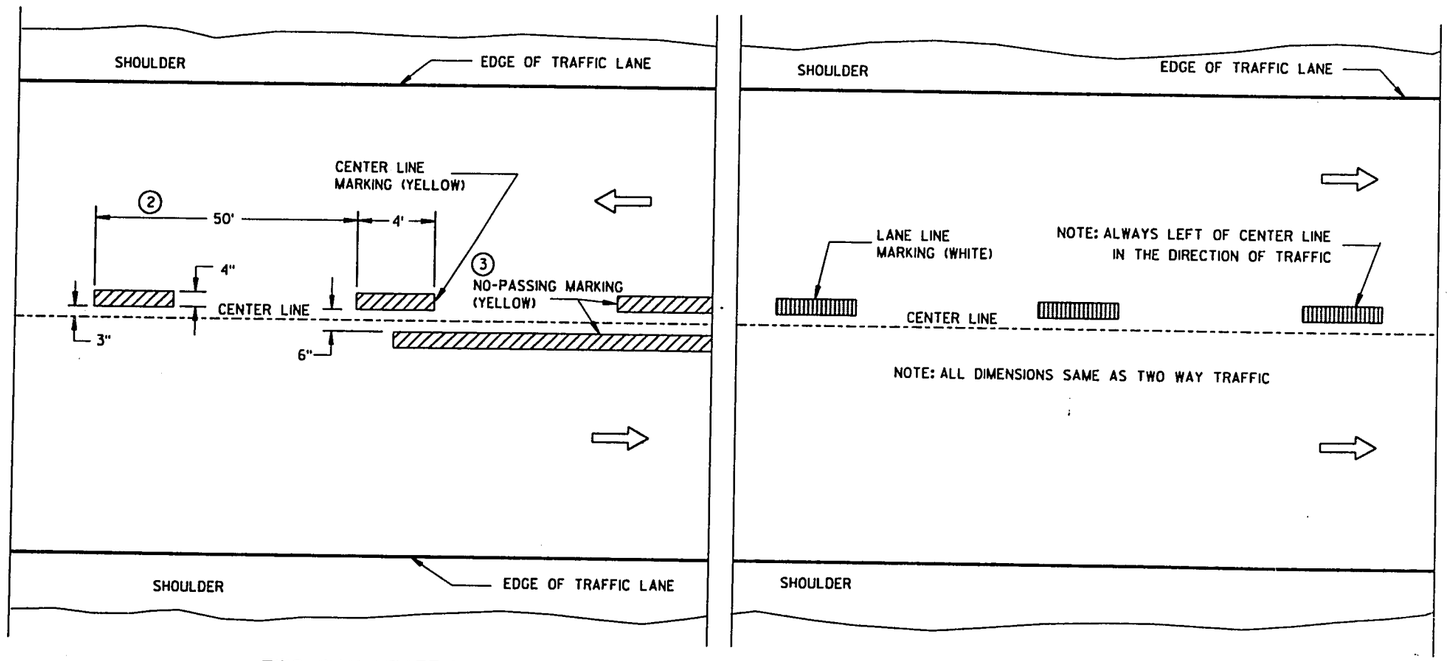
S.D.D. 15 C 2-2



TWO WAY TRAFFIC

ONE WAY TRAFFIC

PERMANENT PAVEMENT MARKING



TWO WAY TRAFFIC

ONE WAY TRAFFIC

TEMPORARY (INTERMEDIATE) PAVEMENT MARKING

(SHOWS CYCLE FOR TEMPORARY CENTER LINE OR TEMPORARY LANE LINE MARKING)

GENERAL NOTES

DETAILS OF CONSTRUCTION NOT SHOWN ON THIS DRAWING SHALL CONFORM TO STANDARD SPECIFICATIONS AND SPECIAL PROVISIONS.

① CENTER LINE/LANE LINE MARKINGS SHALL BE 37 ½ FEET BETWEEN DASHES THROUGHOUT THE PROJECT, INCLUDING THE STARTING OR ENDING GAP FROM THE EXISTING CENTER LINE/LANE LINE MARKING.

② HALF CYCLE LENGTHS (25'±) WITH 2' MINIMUM STRIPE LENGTHS SHALL BE PROVIDED ON ROADWAYS (INCLUDING TEMPORARY TRAVELED WAYS) WITH REVERSE CURVATURE, CURVATURE OF OVER 5 DEGREES OR WHEN DIRECTED BY THE ENGINEER TO MARK UNUSUAL ALIGNMENT OF THE TRAVELED WAY.

③ NO PASSING ZONE TEMPORARY PAVEMENT MARKING IS REQUIRED TO BE PLACED, WHERE APPROPRIATE, ALONG WITH CENTERLINE TEMPORARY PAVEMENT MARKING WHEN A SAME DAY PERMANENT PAVEMENT MARKING ITEM IS INCLUDED IN THE CONTRACT.

NOTE

ARROW SYMBOL (⇨) SHOWS DIRECTION OF TRAVEL

PAVEMENT MARKING
(MAINLINE)

STATE OF WISCONSIN
DEPARTMENT OF TRANSPORTATION

APPROVED 8/18/94
DATE

DIRECTOR, OFFICE OF TRANSP.

FHWA

S.D.D. 15 C 8-60

S.D.D. 15 C 8-60

NOTES

EDGE LINES SHALL BE OMITTED THROUGH INTERSECTIONS. EDGE LINES SHALL BE CONTINUED THROUGH DRIVEWAYS.

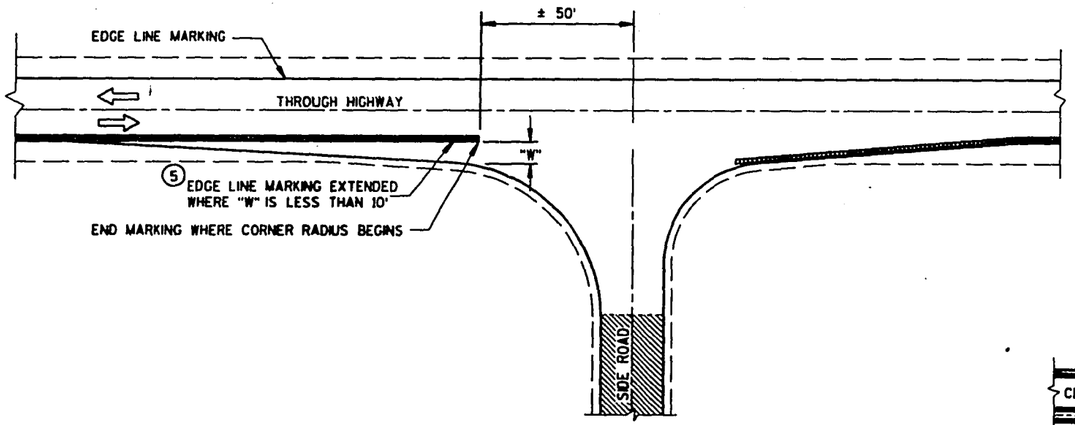
(1) WHEN DISTANCE "A" IS LESS THAN 250 FEET, OMIT LANE LINE.

(2) WHEN DISTANCE "B" IS LESS THAN 100 FEET, OMIT CHANNELIZING LANE LINE.

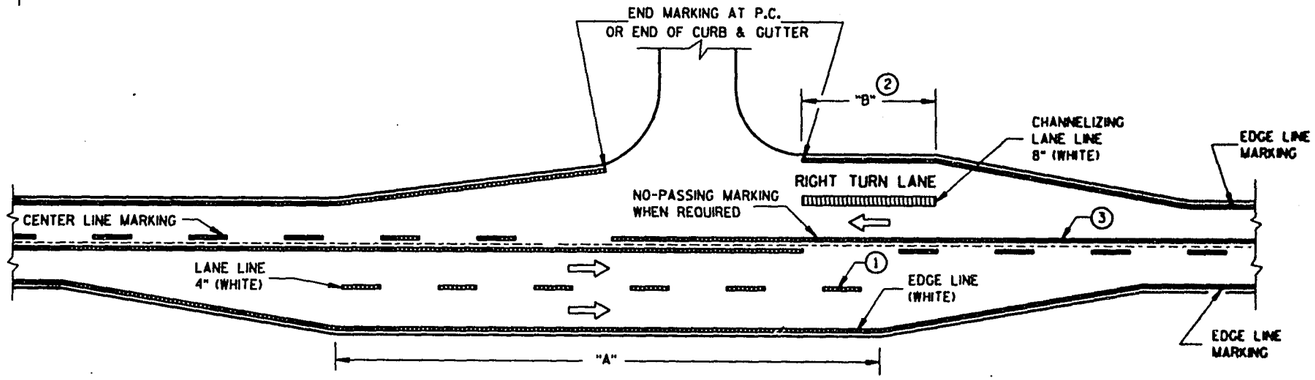
(3) NO-PASSING MARKING SHALL BE PROVIDED WHERE SIGHT DISTANCE IS DEFICIENT. THE LENGTH OF NO-PASSING MARKING SHALL BE 500 FEET MINIMUM.

(4) ALTERNATIVE MARKING SHALL BE PROVIDED WHEN SPECIFIED IN THE CONTRACT. TYPICAL SITUATIONS WHERE THIS MARKING MAY BE REQUIRED ARE WHERE THE INTERSECTION IS ON A SHARP HORIZONTAL CURVE OR CREST VERTICAL CURVE IN AN UNLIGHTED AREA SUCH THAT THE EDGE LINE MAY BE MISLEADING TO THE MOTORIST OR DISAPPEAR FROM SIGHT.

(5) LOCATE THE EDGE LINE ALONG THE TAPER WHERE "W" IS 10' OR MORE.

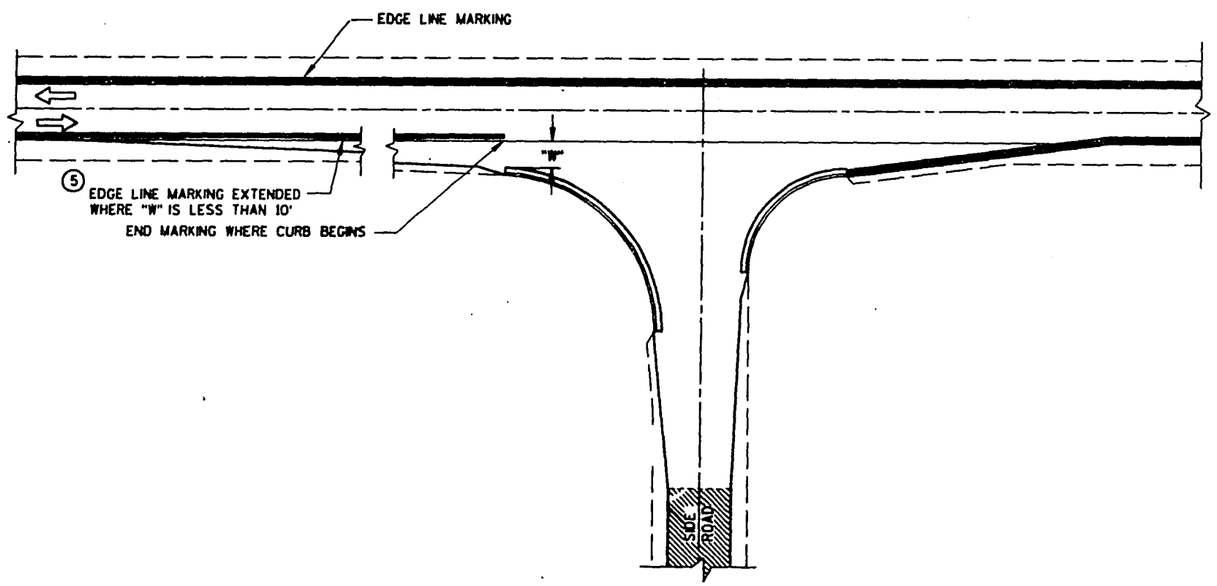


MINOR INTERSECTION WITHOUT CURBS



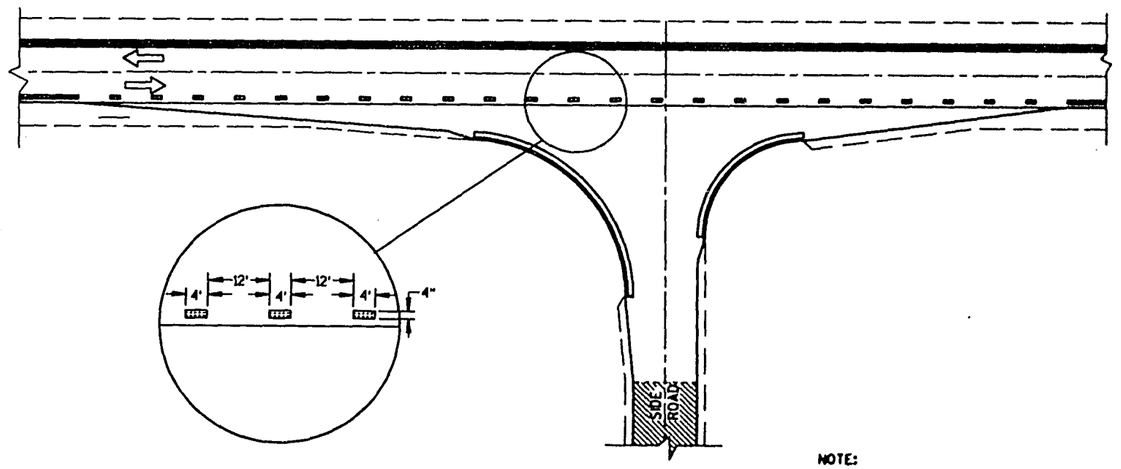
MAJOR INTERSECTIONS

(INTERSECTION WITH FULL RIGHT TURN LANE OR BYPASS LANES)



MINOR INTERSECTION WITH CURBS

(TYPICAL MARKING)



MINOR INTERSECTION WITH CURBS

(4) (FOR SPECIAL CONDITIONS AS SPECIFIED)

NOTE:
SDD 15 C 8-6a IS REQUIRED WHEN THIS DRAWING IS CALLED FOR IN THE PLANS.

PAVEMENT MARKING
(INTERSECTIONS)

STATE OF WISCONSIN
DEPARTMENT OF TRANSPORTATION

S.D.D. 15 C 8-6b

S.D.D. 15 C 8-6b

TWO-LANE ROADWAY

SYMBOLS

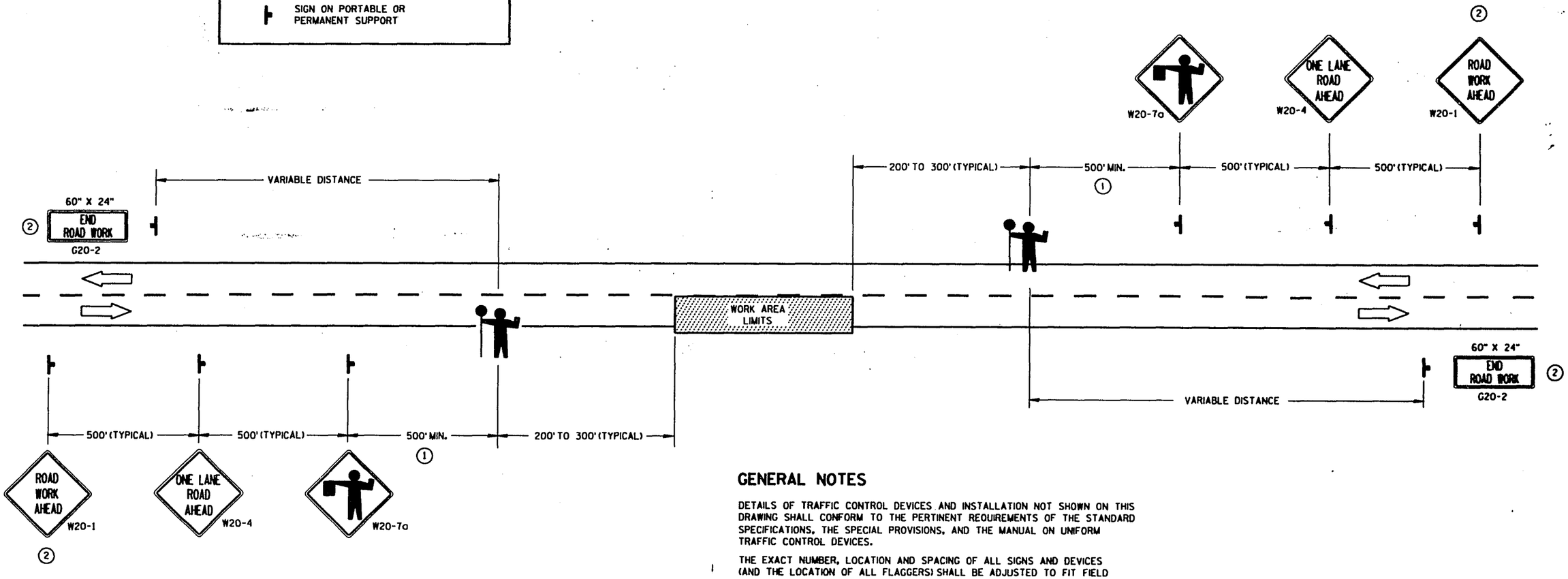
WORK AREA

FLAGGER, EQUIPPED WITH STOP/SLOW PADDLE FASTENED ON SUPPORT STAFF

SIGN ON PORTABLE OR PERMANENT SUPPORT



USE OF THE "BE PREPARED TO STOP" SIGN IS OPTIONAL. WHEN USED, THIS SIGN SHALL BE LOCATED BETWEEN THE W20-7a AND W20-4 SIGNS. A 500' TYPICAL SPACING SHALL BE PROVIDED BETWEEN THE SIGNS.



① FOR A MOVING WORK OPERATION, SIGNING FOR BOTH DIRECTIONS SHALL BE REESTABLISHED (AS SIMULTANEOUSLY AS PRACTICAL) AT APPROXIMATELY 3500 FOOT INTERVALS IN THE MOVING WORK OPERATION OR AS DIRECTED BY THE ENGINEER.

② SIGN NOT REQUIRED IF FLAGGING OPERATION OCCURS WITHIN A SIGNED ROAD WORK ZONE AREA.

GENERAL NOTES

DETAILS OF TRAFFIC CONTROL DEVICES AND INSTALLATION NOT SHOWN ON THIS DRAWING SHALL CONFORM TO THE PERTINENT REQUIREMENTS OF THE STANDARD SPECIFICATIONS, THE SPECIAL PROVISIONS, AND THE MANUAL ON UNIFORM TRAFFIC CONTROL DEVICES.

THE EXACT NUMBER, LOCATION AND SPACING OF ALL SIGNS AND DEVICES (AND THE LOCATION OF ALL FLAGGERS) SHALL BE ADJUSTED TO FIT FIELD CONDITIONS AS DIRECTED BY THE ENGINEER.

THE FIRST ADVANCE WARNING SIGN SHOULD TYPICALLY BE LOCATED IN ADVANCE OF THE ANTICIPATED TRAFFIC BACKUP OR QUEUE.

WHEN A SIDE ROAD OR RAMP INTERSECTS THE FACILITY ON WHICH THE WORK IS BEING PERFORMED, ADDITIONAL TRAFFIC CONTROLS SHALL BE PROVIDED AS SPECIFIED IN THE PLANS AND/OR THE SPECIAL PROVISIONS OR AS DIRECTED BY THE ENGINEER.

FLAGGERS SHALL BE IN SIGHT OF EACH OTHER OR IN DIRECT COMMUNICATION AT ALL TIMES. THEY SHALL BE EQUIPPED WITH STOP/SLOW PADDLES FASTENED ON SUPPORT STAFFS. WHEN THE FLAGGING OPERATION IS NOT IN EFFECT, THE "FLAGGER AHEAD", THE "ROAD WORK AHEAD" AND THE ONE LANE ROAD AHEAD" SIGNS SHALL BE COVERED OR REMOVED AND THE HIGHWAY RESTORED TO NORMAL OPERATION.

ALL SIGNS ARE 48" X 48" UNLESS OTHERWISE NOTED.

TRAFFIC CONTROL FOR LANE CLOSURE (SUITABLE FOR MOVING OPERATIONS)

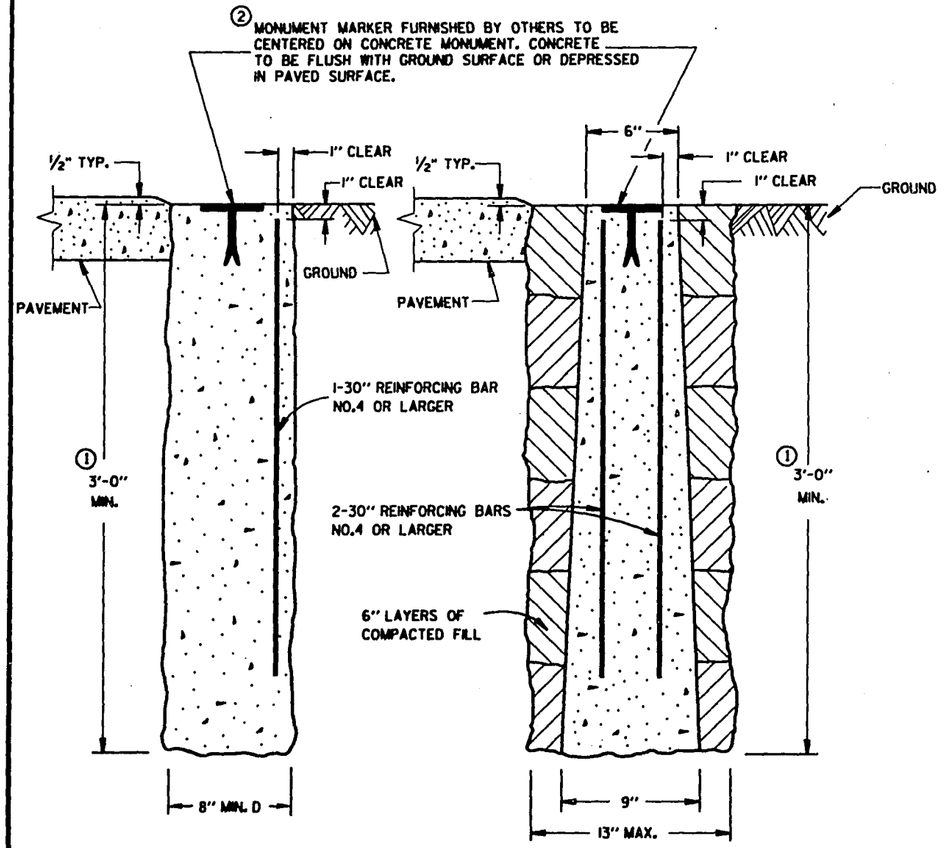
STATE OF WISCONSIN
DEPARTMENT OF TRANSPORTATION

APPROVED
2/17/94
DATE
STATE TRAFFIC ENGINEER FOR HWYS

FHWA

S.D.D. 15 C 12-2

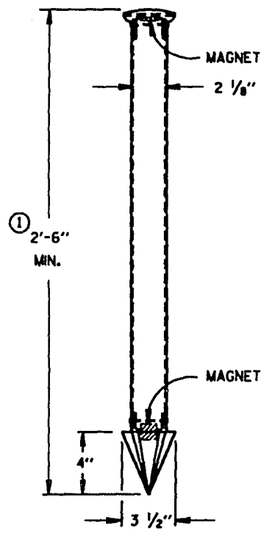
S.D.D. 15 C 12-2



CAST-IN-PLACE PRECAST

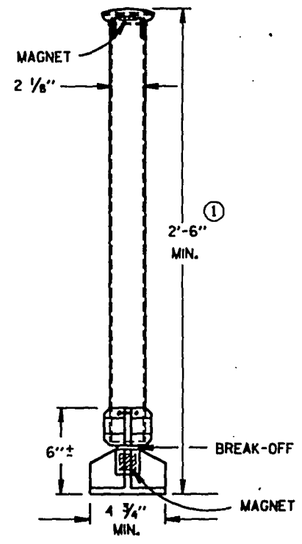
CONCRETE MONUMENTS

TYPE A



TYPE C

DRIVE-IN MONUMENT



TYPE D

BREAK-OFF MONUMENT

ALUMINUM 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.

INSTALLED METAL MONUMENTS MUST BE EASILY DETECTED WITH A DIP NEEDLE. INSERT 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.

THE CAST IRON 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 PRECAST OR CAST-IN-PLACE REINFORCED CONCRETE GRADE RINGS.

MONUMENTS SHALL BE LOCATED AND PLACED AT THE DIRECTION OF THE ENGINEER.

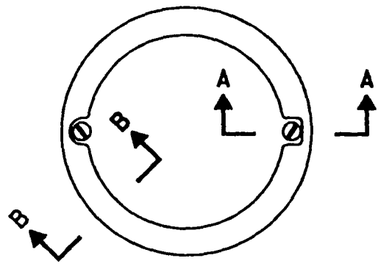
ALUMINUM MONUMENTS AND MONUMENT COVERS SHALL BE MADE FROM AN ALUMINUM AND MAGNESIUM ALLOY AS DETERMINED BY THE MANUFACTURER.

THE MONUMENT COVERS DETAILED ON THIS DRAWING ARE NOT EQUAL ALTERNATES. MONUMENT COVERS SHALL BE CAST IRON UNLESS ALUMINUM IS SPECIFIED ELSEWHERE IN THE CONTRACT.

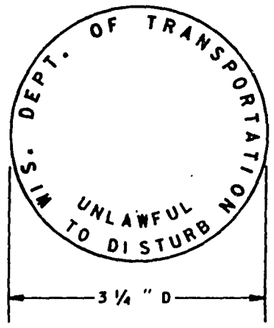
MONUMENT SHALL BE CAST-IN-PLACE CONCRETE UNLESS PRECAST CONCRETE OR ALUMINUM MONUMENTS ARE SPECIFIED IN THE CONTRACT OR PERMITTED BY THE ENGINEER.

① MINIMUM LENGTH SHALL BE 4'-0" FOR MONUMENTS INSTALLED IN PAVED AREAS.

② AN OFFICIAL COUNTY MONUMENT MARKER SUPPLIED BY A COUNTY MAY BE REQUIRED FOR SOME SECTION CORNERS AND WITNESS MONUMENTS INSTEAD OF THIS WIS DOT MARKER.

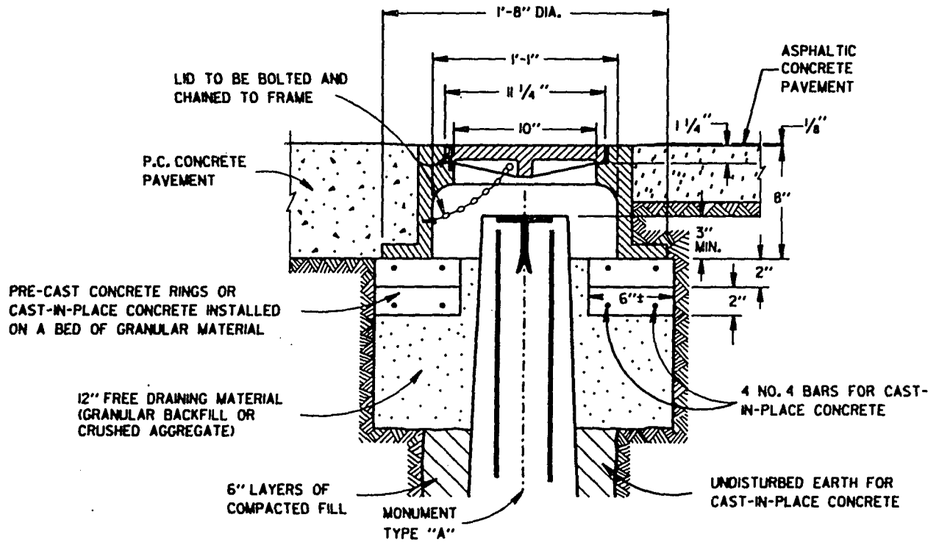


TOP VIEW



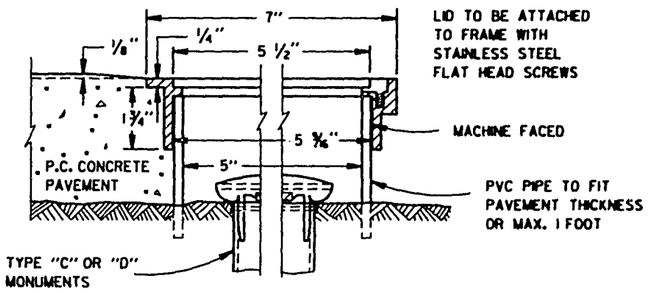
② WIS DOT MONUMENT MARKER LOGO

FOR TYPES "A", "C" & "D"



CAST IRON MONUMENT COVER

(APPROXIMATE WEIGHT - 95 LBS.)



SECTION B-B SECTION A-A

ALUMINUM MONUMENT COVER

(APPROXIMATE WEIGHT 2 LBS)

(FOR CONCRETE PAVEMENT ONLY)

LANDMARK REFERENCE MONUMENTS AND COVERS

STATE OF WISCONSIN
DEPARTMENT OF TRANSPORTATION

APPROVED 3/31/92 DATE — STATE DESIGN ENGINEER FOR HWYS.

FHWA

S.D.D. 16 A 1-5

S.D.D. 16 A 1-5

FILE COPY - SOUTH SECTION.
CROSS-SECTION > 1995 GRADING

WISCONSIN DEPARTMENT OF TRANSPORTATION - DIVISION OF HIGHWAYS

PROJ TITLE 2 STH 36, LOOMIS RD, TEUT TO CTH W,RAC. & WAUK.CO PROJECT 2240-07-00-19
RDWY TITLE COMBINED ROADWAY ROADWAY DESIGN YARDAGE LISTING DATE 10/28/94 PAGE 1

STATION / DIST	UNCL/COM CUT AREA	VOL	ACC VOL	FILL AREA	VOL	ACC VOL	FACT	ROCK CUT AREA	VOL	ACC VOL	FACT	MARSH CUT AREA	VOL	ACC VOL	MARSH BACKFILL AREA	VOL	ACC VOL	FACT	ACCUM NET
89+00	75			254															
100		239	239		954	954	1.180												
			239		1126	1126													887-
90+00	54			261															
100		241	480		817	1771	1.180												
			480		964	2090													1610-
91+00	76			180															
100		480	960		420	2191	1.180												
			960		496	2586													1626-
92+00	183			47															
50		427	1387		82	2273	1.180												
			1387		97	2683													1296-
ADD VOLUME EBS																			
92+50			1387			2273						433	433	433	433				
			1387			2683									541	541			1837-
50		603	1990		73	2346	1.180						433		433				
			1990		86	2769									541				1320-
93+00	373			37															
98		1400	3390		68	2414	1.180						433		433				
			3390		80	2849									541				
BALANCE TOTALS																			
93+98			3390			2414							433		433				
			3390			2849									541				
2		22	3412		1	2415	1.180						433		433				
			3412		1	2850									541				21+
94+00	395																		
100		1513	4925			2415	1.180					433	433		433				
			4925			2850									541				1534+
95+00	422																		
100		1493	6418		59	2474	1.180					433	433		433				
			6418		70	2920									541				2957+
96+00	384			32															

WISCONSIN DEPARTMENT OF TRANSPORTATION - DIVISION OF HIGHWAYS

9.0

PROJ TITLE 2 STH 36, LOOMIS RD, TEUT TO CTH W,RAC. & WAUK.CO PROJECT 2240-07-~~00~~-19
RDWY TITLE COMBINED ROADWAY ROADWAY DESIGN YARDAGE LISTING DATE 10/28/94 PAGE 2

STATION / DIST	UNCL/COM CUT AREA	VOL	ACC VOL	FILL AREA	VOL	ACC VOL	FACT	ROCK CUT AREA	VOL	ACC VOL	FACT	MARSH CUT AREA	VOL	ACC VOL	MARSH BACKFILL AREA	VOL	ACC VOL	FACT	ACCUM NET
96+00	384			32															
100		1348	7766		144	2618	1.180							433			433		
			7766		170	3090								541			541		4135+
97+00	344			46															
100		2543	10309		124	2742	1.180							433			433		
			10309		146	3236								541			541		6532+
98+00	1029			21															
100		3852	14161		67	2809	1.180							433			433		
			14161		79	3315								541			541		10305+
99+00	1051			15															
100		3861	18022		56	2865	1.180							433			433		
			18022		66	3381								541			541		14100+
ADD VOLUME EBS																			
100+00			18022			2865										491	924	491	924
			18022			3381												614	1155
100+00	1034			15															13486+
93		3930	21952		26	2891	1.180											924	
			21952		31	3412												1155	
101+00	1247																		17385-
100		5104	27056			2891	1.180											924	
			27056			3412												1155	
102+00	1509																		22489-
100		5733	32789			2891	1.180											924	
			32789			3412												1155	
103+00	1587																		28222-
100		4291	37080			2891	1.180											924	
			37080			3412												1155	
104+00	730																		32513-
100		2343	39423		13	2904	1.180											924	
			39423		15	3427												1155	
105+00	535			7															34841-
100		1643	41066		33	2937	1.180											924	
			41066		39	3466												1155	
106+00	352			11															36445-

WISCONSIN DEPARTMENT OF TRANSPORTATION - DIVISION OF HIGHWAYS

PROJ TITLE 2 STH 36, LOOMIS RD, TEUT TO CTH W,RAC. & WAUK.CO PROJECT 2240-07-00-19
RDWY TITLE COMBINED ROADWAY ROADWAY DESIGN YARDAGE LISTING DATE 10/28/94 PAGE 3

STATION / DIST	UNCL/COM CUT AREA VOL	ACC VOL	FILL AREA VOL	ACC VOL	FACT	ROCK CUT AREA VOL	ACC VOL	FACT	MARSH CUT AREA VOL	ACC VOL	MARSH BACKFILL AREA VOL	ACC VOL	FACT	ACCUM NET
106+00	352		11											
100	989	42055	119	3056	1.180					924		924		
		42055	140	3606								1155		37294+
107+00	182		53											
100	1480	43535	102	3158	1.180					924		924		
		43535	120	3726								1155		38654+
ADD VOLUME	EBS													
108+00		43535		3158					579	1503	579	1503		
		43535		3726							724	1879		37930+
108+00	617		2											
100	1952	45487	4	3162	1.180					1503		1503		
		45487	5	3731								1879		39877+
109+00	437													
100	1069	46556		3162	1.180					1503		1503		
		46556		3731								1879		40946+
110+00	140													
100	420	46976		3162	1.180					1503		1503		
		46976		3731								1879		41366+
111+00	87													
100	946	47922		3162	1.180					1503		1503		
		47922		3731								1879		42312+
112+00	424													
100	1087	49009		3162	1.180					1503		1503		
		49009		3731								1879		43399+
113+00	163													
100	393	49402	15	3177	1.180					1503		1503		
		49402	18	3749								1879		43774+
114+00	49		8											
100	231	49633	120	3297	1.180					1503		1503		
		49633	142	3891								1879		43863+
115+00	76		57											
100	176	49809	231	3528	1.180					1503		1503		
		49809	273	4164								1879		43766+
116+00	19		68											

WISCONSIN DEPARTMENT OF TRANSPORTATION - DIVISION OF HIGHWAYS

PROJ TITLE 2 STH 36, LOOMIS RD, TEUT TO CTH W,RAC. & WAUK.CO PROJECT 2240-07-00-19
RDWY TITLE COMBINED ROADWAY ROADWAY DESIGN YARDAGE LISTING DATE 10/28/94 PAGE 4

STATION / DIST	UNCL/COM CUT AREA VOL	ACC VOL	FILL AREA VOL	ACC VOL	FACT	ROCK CUT AREA VOL	ACC VOL	FACT	MARSH CUT AREA VOL	ACC VOL	MARSH BACKFILL AREA VOL	ACC VOL	FACT	ACCUM NET
116+00	19		68											
100	398	50207	126	3654	1.180					1503		1503		
		50207	149	4313								1879		44015+
117+00	196													
25	254	50461		3654	1.180					1503		1503		
		50461		4313								1879		44269+
ADD VOLUME	EBS													
117+25		50461		3654					1745	3248	1745	3248		
		50461		4313							2181	4060		42088+
75	1636	52097		3654	1.180					3248		3248		
		52097		4313								4060		43724+
118+00	825													
100	3546	55643		3654	1.180					3248		3248		
		55643		4313								4060		47270+
119+00	1090													
100	3591	59234		3654	1.180					3248		3248		
		59234		4313								4060		50861+
120+00	849													
100	2644	61878		3654	1.180					3248		3248		
		61878		4313								4060		53505+
121+00	579													
100	1641	63519		3654	1.180					3248		3248		
		63519		4313								4060		55146+
122+00	307													
100	630	64149	78	3732	1.180					3248		3248		
		64149	92	4405								4060		55684+
123+00	33		42											
100	296	64445	252	3984	1.180					3248		3248		
		64445	297	4702								4060		55683+
124+00	127		94											
100	324	64769	448	4432	1.180					3248		3248		
		64769	529	5231								4060		55478+
125+00	48		148											

WISCONSIN DEPARTMENT OF TRANSPORTATION - DIVISION OF HIGHWAYS

PROJ TITLE 2 STH 36, LOOMIS RD, TEUT TO CTH W,RAC. & WAUK.CO PROJECT 2240-07-00-19
RDWY TITLE COMBINED ROADWAY ROADWAY DESIGN YARDAGE LISTING DATE 10/28/94 PAGE 5

STATION / DIST	UNCL/COM CUT AREA VOL	UNCL/COM CUT AREA ACC VOL	FILL AREA VOL	FILL AREA ACC VOL	FACT	ROCK CUT AREA VOL	ROCK CUT AREA ACC VOL	FACT	MARSH CUT AREA VOL	MARSH CUT AREA ACC VOL	MARSH BACKFILL AREA VOL	MARSH BACKFILL AREA ACC VOL	FACT	ACCUM NET
125+00	48		148											
100	107	64876	791	5223	1.180					3248		3248		
		64876	933	6164								4060		54652+
126+00	10		279											
100	41	64917	1002	6225	1.180					3248		3248		
		64917	1182	7346								4060		53511+
127+00	12		262											
100	35	64952	902	7127	1.180					3248		3248		
		64952	1064	8410								4060		52482+
128+00	7		225											
100	17	64969	931	8058	1.180					3248		3248		
		64969	1099	9509								4060		51400+
129+00	2		278											
100	7	64976	1174	9232	1.180					3248		3248		
		64976	1385	10894								4060		50022+
ADD VOLUME EBS														
130+00		64976		9232					1590	4838	1590	4838		
		64976		10894							1988	6048		48034+
130+00	2		356											
100	6	64982	1441	10673	1.180					4838		4838		
		64982	1700	12594								6048		46340+
131+00	1		422											
100	4	64986	1450	12123	1.180					4838		4838		
		64986	1711	14305								6048		44633+
132+00	1		361											
100	6	64992	1343	13466	1.180					4838		4838		
		64992	1585	15890								6048		43054+
ADD VOLUME MARSH														
133+00		64992		13466					3039	7877	3039	7877		
		64992		15890							4346	10394		38708+
133+00	2		364											
100	7	64999	1385	14851	1.180					7877		7877		
		64999	1634	17524								10394		37081+
134+00	2		384											

WISCONSIN DEPARTMENT OF TRANSPORTATION - DIVISION OF HIGHWAYS

PROJ TITLE 2 STH 36, LOOMIS RD, TEUT TO CTH W,RAC. & WAUK.CO PROJECT 2240-07-00-19
RDWY TITLE COMBINED ROADWAY ROADWAY DESIGN YARDAGE LISTING DATE 10/28/94 PAGE 6

STATION / DIST	UNCL/COM CUT AREA VOL	UNCL/COM CUT AREA ACC VOL	FILL AREA VOL	FILL AREA ACC VOL	FACT	ROCK CUT AREA VOL	ROCK CUT AREA ACC VOL	FACT	MARSH CUT AREA VOL	MARSH CUT AREA ACC VOL	MARSH BACKFILL AREA VOL	MARSH BACKFILL AREA ACC VOL	FACT	ACCUM NET
134+00	2		384											
100	11	65010	1239	16090	1.180									
		65010	1462	18986										
135+00	4		285											
100	20	65030	976	17066	1.180									
		65030	1152	20138										
136+00	7		242											
100	30	65060	844	17910	1.180									
		65060	996	21134										
137+00	9		214											
100	31	65091	693	18603	1.180									
		65091	818	21952										
138+00	8		160											
100	22	65113	650	19253	1.180									
		65113	767	22719										
139+00	4		191											
100	9	65122	772	20025	1.180									
		65122	911	23630										
140+00	1		226											
100	4	65126	1026	21051	1.180									
		65126	1211	24841										
141+00	1		328											
100	9	65135	1011	22062	1.180									
		65135	1193	26034										
ADD VOLUME EBS														
142+00		65135		22062										
		65135		26034										
142+00	4		218											
50	8	65143	423	22485	1.180									
		65143	499	26533										
ADD VOLUME MARSH														
										7877		7877		
												10394		35630+
										7877		7877		
												10394		34498+
										7877		7877		
												10394		33532+
										7877		7877		
												10394		32745+
										7877		7877		
												10394		32000+
										7877		7877		
												10394		31098+
										7877		7877		
												10394		29891+
										7877		7877		
												10394		28707+
									3515	11392	3515	11392		
											4394	14788		24313+
										11392		11392		
												14788		23822+

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STATION / DIST	UNCL/COM CUT AREA VOL	UNCL/COM CUT AREA ACC VOL	FILL AREA VOL	FILL AREA ACC VOL	FACT	ROCK CUT AREA VOL	ROCK CUT AREA ACC VOL	FACT	MARSH CUT AREA VOL	MARSH CUT AREA ACC VOL	MARSH BACKFILL AREA VOL	MARSH BACKFILL AREA ACC VOL	FACT	ACCUM NET
ADD VOLUME MARSH														
142+50		65143		22485					652	12044	652	12044		
		65143		26533							932	15720		22890+
50	9	65152	461	22946	1.180					12044		12044		
		65152	544	27077								15720		22355+
143+00	5		259											
50	11	65163	456	23402	1.180					12044		12044		
		65163	538	27615								15720		21828+
ADD VOLUME EBS														
143+50		65163		23402					22	12066	22	12066		
		65163		27615							28	15748		21800+
50	15	65178	410	23812	1.180					12066		12066		
		65178	484	28099								15748		21331+
144+00	9		209											
100	31	65209	837	24649	1.180					12066		12066		
		65209	988	29087								15748		20374+
145+00	8		243											
100	33	65242	876	25525	1.180					12066		12066		
		65242	1034	30121								15748		19373+
146+00	10		230											
100	33	65275	833	26358	1.180					12066		12066		
		65275	983	31104								15748		18423+
147+00	8		220											
100	91	65366	557	26915	1.180					12066		12066		
		65366	657	31761								15748		17857+
148+00	41		81											
100	198	65564	202	27117	1.180					12066		12066		
		65564	238	31999								15748		17817+
149+00	66		28											
100	281	65845	83	27200	1.180					12066		12066		
		65845	98	32097								15748		18000+
ADD VOLUME MARSH														

STATION / DIST	UNCL/COM CUT AREA VOL	UNCL/COM CUT AREA ACC VOL	FILL AREA VOL	FILL AREA ACC VOL	FACT	ROCK CUT AREA VOL	ROCK CUT AREA ACC VOL	FACT	MARSH CUT AREA VOL	MARSH CUT AREA ACC VOL	MARSH BACKFILL AREA VOL	MARSH BACKFILL AREA ACC VOL	FACT	ACCUM NET
ADD VOLUME MARSH														
150+00		65845		27200							6529	18595		
		65845		32097							9336	25084		8664+
150+00	86		17											
100	383	66228	94	27294	1.180							18595		
		66228	111	32208								25084		8936+
151+00	121		34											
100	428	66656	117	27411	1.180							18595		
		66656	138	32346								25084		9226+
152+00	110		29											
100	420	67076	93	27504	1.180							18595		
		67076	110	32456								25084		9536+
153+00	117		21											
100	430	67506	63	27567	1.180							18595		
		67506	74	32530								25084		9892+
154+00	115		13											
100	374	67880	54	27621	1.180							18595		
		67880	64	32594								25084		10202+
ADD VOLUME MARSH														
155+00		67880		27621					6625	18691	2530	21125		
		67880		32594							3618	28702		6584+
155+00	87		16											
100	309	68189	93	27714	1.180							21125		
		68189	110	32704								28702		6783+
156+00	80		34											
100	319	68508	81	27795	1.180							21125		
		68508	96	32800								28702		7006+
157+00	92		10											
100	343	68851	22	27817	1.180							21125		
		68851	26	32826								28702		7323+
158+00	93		2											
100	365	69216	33	27850	1.180							21125		
		69216	39	32865								28702		7649+
159+00	104		16											

STATION / DIST	UNCL/COM CUT AREA VOL	UNCL/COM CUT AREA ACC VOL	FILL AREA VOL	FILL AREA ACC VOL	FACT	ROCK CUT AREA VOL	ROCK CUT AREA ACC VOL	FACT	MARSH CUT AREA VOL	MARSH CUT AREA ACC VOL	MARSH BACKFILL AREA VOL	MARSH BACKFILL AREA ACC VOL	FACT	ACCUM NET
159+00	104		16											
100	376	69592	39	27889	1.180					21412		21125		
		69592	46	32911								28702		7979+
160+00	99		5											
100	381	69973	15	27904	1.180					21412		21125		
		69973	18	32929								28702		8342+
161+00	107		3											
100	198	70171	6	27910	1.180					21412		21125		
		70171	7	32936								28702		8533+
162+00														
100		70171		27910						21412		21125		
		70171		32936								28702		8533+
163+00														
88	2	70173		27910	1.180					21412		21125		
		70173		32936								28702		8535+
163+88	1													
12		70173		27910						21412		21125		
		70173		32936								28702		8535+
164+00														
100		70173		27910						21412		21125		
		70173		32936								28702		8535+
165+00														
100		70173		27910						21412		21125		
		70173		32936								28702		8535+
166+00														
100		70173		27910						21412		21125		
		70173		32936								28702		8535+
167+00														
100	180	70353	20	27930	1.180					21412		21125		
		70353	24	32960								28702		8691+
168+00	97		11											
100	367	70720	28	27958	1.180					21412		21125		
		70720	33	32993								28702		9025+
169+00	101		4											

STATION / DIST	UNCL/COM CUT AREA VOL	UNCL/COM CUT AREA ACC VOL	FILL AREA VOL	FILL AREA ACC VOL	FACT	ROCK CUT AREA VOL	ROCK CUT AREA ACC VOL	FACT	MARSH CUT AREA VOL	MARSH CUT AREA ACC VOL	MARSH BACKFILL AREA VOL	MARSH BACKFILL AREA ACC VOL	FACT	ACCUM NET
169+00	101		4											
100	369	71089	59	28017	1.180					21412		21125		
		71089	70	33063								28702		9324+
170+00	98		28											
100	365	71454	85	28102	1.180					21412		21125		
		71454	100	33163								28702		9589+
171+00	99		18											
100	363	71817	100	28202	1.180					21412		21125		
		71817	118	33281								28702		9834+
172+00	97		36											
100	359	72176	131	28333	1.180					21412		21125		
		72176	155	33436								28702		10038+
ADD VOLUME	MARSH													
173+00		72176		28333					228	21640	228	21353		
		72176		33436							326	29028		9712+
173+00	97		35											
100	385	72561	119	28452	1.180					21640		21353		
		72561	140	33576								29028		9957+
174+00	111		29											
100	472	73033	98	28550	1.180					21640		21353		
		73033	116	33692								29028		10313+
175+00	144		24											
100	583	73616	61	28611	1.180					21640		21353		
		73616	72	33764								29028		10824+
176+00	171		9											
100	533	74149	50	28661	1.180					21640		21353		
		74149	59	33823								29028		11298+
177+00	117		18											
100	374	74523	131	28792	1.180					21640		21353		
		74523	155	33978								29028		11517+
178+00	85		53											
100	383	74906	104	28896	1.180					21640		21353		
		74906	123	34101								29028		11777+
179+00	122		3											

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STATION DIST	UNCL/COM CUT AREA VOL	ACC VOL	FILL AREA VOL	ACC VOL	FACT	ROCK CUT AREA VOL	ACC VOL	FACT	MARSH CUT AREA VOL	ACC VOL	MARSH BACKFILL AREA VOL	ACC VOL	FACT	ACCUM NET
179+00	122		3											
100	876	75782	13	28909	1.180					21640		21353		
		75782	15	34116								29028		12638+
180+00	351		4											
100	1781	77563	28	28937	1.180					21640		21353		
		77563	33	34149								29028		14386+
181+00	611		11											
100	2774	80337	83	29020	1.180					21640		21353		
		80337	98	34247								29028		17062+
182+00	887		34											
100	1659	81996	256	29276	1.180					21640		21353		
		81996	302	34549								29028		18419+
183+00	9		104											
100	17	82013	1006	30282	1.180					21640		21353		
		82013	1187	35736								29028		17249+
184+00			439											
100	2	82015	1813	32095	1.180					21640		21353		
		82015	2139	37875								29028		15112+
185+00	1		540											
100	937	82952	1004	33099	1.180					21640		21353		
		82952	1185	39060								29028		14864+
186+00	505		2											
100	3107	86059	4	33103	1.180					21640		21353		
		86059	5	39065								29028		17966+
ADD VOLUME	EBS													
187+00		86059		33103					2148	23788	2148	23501		
		86059		39065							2685	31713		15281+
187+00	1173													
100	4043	90102		33103	1.180					23788		23501		
		90102		39065								31713		19324+
188+00	1010													
100	2187	92289		33103	1.180					23788		23501		
		92289		39065								31713		21511+
189+00	171													

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STATION DIST	UNCL/COM CUT AREA VOL	ACC VOL	FILL AREA VOL	ACC VOL	FACT	ROCK CUT AREA VOL	ACC VOL	FACT	MARSH CUT AREA VOL	ACC VOL	MARSH BACKFILL AREA VOL	ACC VOL	FACT	ACCUM NET
189+00	171													
100	1037	93326		33103	1.180							23501		
		93326		39065						23788		31713		22548+
ADD VOLUME	EBS													
190+00		93326		33103							78	23579		
		93326		39065					78	23866	98	31811		22450+
190+00	389													
100	1774	95100		33103	1.180							23579		
		95100		39065						23866		31811		24224+
191+00	569													
100	1330	96430		33103	1.180							23579		
		96430		39065						23866		31811		25554+
192+00	149													
100	293	96723	528	33631	1.180							23579		
		96723	623	39688						23866		31811		25224+
193+00	9		285											
100	19	96742	1691	35322	1.180							23579		
		96742	1995	41683						23866		31811		23248+
194+00	1		628											
100	4	96746	2926	38248	1.180							23579		
		96746	3453	45136						23866		31811		19799+
195+00	1		952											
100	7	96753	3681	41929	1.180							23579		
		96753	4344	49480						23866		31811		15462+
ADD VOLUME	EBS													
196+00		96753		41929							407	23986		
		96753		49480					407	24273	509	32320		14953+
196+00	3		1036											
100	7	96760	3713	45642	1.180							23986		
		96760	4381	53861						24273		32320		10579+
197+00	1		969											
100	4	96764	3409	49051	1.180							23986		
		96764	4023	57884						24273		32320		6560+
198+00	1		872											

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PROJ TITLE 2 STH 36, LOOMIS RD, TEUT TO CTH W,RAC. & WAUK.CO PROJECT 2240-07-00-19
RDWY TITLE COMBINED ROADWAY ROADWAY DESIGN YARDAGE LISTING DATE 10/28/94 PAGE 13

STATION DIST	UNCL/COM CUT AREA VOL	ACC VOL	FILL AREA VOL	ACC VOL	FACT	ROCK CUT AREA VOL	ACC VOL	FACT	MARSH CUT AREA VOL	ACC VOL	MARSH BACKFILL AREA VOL	ACC VOL	FACT	ACCUM NET
198+00	1		872											
100	7	96771	2993	52044	1.180					24273		23986		
		96771	3532	61416								32320		3035+
199+00	3		744											
98	11	96782	2581	54625	1.180					24273		23986		
		96782	3046	64462								32320		
BALANCE TOTALS														
199+98		93392		52211						23840		23553		
		93392		61613								31779		
	2	96782	65	54690	1.180					24273		23986		
		96782	76	64538								32320		76-
ADD VOLUME MARSH														
200+00		96782		54690					3674	27947	3674	27660		
		96782		64538							5254	37574		5330-
200+00	3		685											
100	19	96801	2376	57066	1.180					27947		27660		
		96801	2804	67342								37574		8115-
201+00	7		598											
100	30	96831	2239	59305	1.180					27947		27660		
		96831	2642	69984								37574		10727-
202+00	9		611											
50	16	96847	1112	60417	1.180					27947		27660		
		96847	1312	71296								37574		12023-
ADD VOLUME MARSH														
202+50		96847		60417					1086	29033	1086	28746		
		96847		71296							1553	39127		13576-
	50	14 96861	1073	61490	1.180					29033		28746		
		96861	1266	72562								39127		14828-
203+00	7		569											
45	11	96872	1045	62535	1.180					29033		28746		
		96872	1233	73795								39127		16050-
203+45	6		685											

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PROJ TITLE 2 STH 36, LOOMIS RD, TEUT TO CTH W,RAC. & WAUK.CO PROJECT 2240-07-00-19
RDWY TITLE COMBINED ROADWAY ROADWAY DESIGN YARDAGE LISTING DATE 10/28/94 PAGE 14

STATION DIST	UNCL/COM CUT AREA VOL	ACC VOL	FILL AREA VOL	ACC VOL	FACT	ROCK CUT AREA VOL	ACC VOL	FACT	MARSH CUT AREA VOL	ACC VOL	MARSH BACKFILL AREA VOL	ACC VOL	FACT	ACCUM NET
203+45	6		685											
55	17	96889	1235	63770	1.180							29033		28746	
		96889	1457	75252										39127	17490-
204+00	11		528												
50	23	96912	909	64679	1.180							29033		28746	
		96912	1073	76325										39127	18540-
ADD VOLUME EBS															
204+50		96912		64679							776	29809	776	29522	
		96912		76325									970	40097	19510-
50	29	96941	771	65450	1.180							29809		29522	
		96941	910	77235										40097	20391-
205+00	17		379												
100	119	97060	813	66263	1.180							29809		29522	
		97060	959	78194										40097	21231-
ADD VOLUME MARSH															
206+00		97060		66263							596	30405	596	30118	
		97060		78194									852	40949	22083-
206+00	47		60												
100	174	97234	431	66694	1.180							30405		30118	
		97234	509	78703										40949	22418-
207+00	47		173												
100	128	97362	817	67511	1.180							30405		30118	
		97362	964	79667										40949	23254-
208+00	22		268												
50	35	97397	490	68001	1.180							30405		30118	
		97397	578	80245										40949	23797-
ADD VOLUME MARSH															
208+50		97397		68001									500	30618	
		97397		80245									715	41664	24512-
	50	24 97421	476	68477	1.180							30905		30618	
		97421	562	80807										41664	25050-
209+00	10		253												

STATION DIST	UNCL/COM CUT AREA VOL	ACC VOL	FILL AREA VOL	ACC VOL	FACT	ROCK CUT AREA VOL	ACC VOL	FACT	MARSH CUT AREA VOL	ACC VOL	MARSH BACKFILL AREA VOL	ACC VOL	FACT	ACCUM NET
209+00	10		253											
100	69	97490	561	69038	1.180					30905		30618		
		97490	662	81469								41664		25643-
210+00	27		50											
100	254	97744	148	69186	1.180					30905		30618		
		97744	175	81644								41664		25564-
211+00	110		30											
100	291	98035	365	69551	1.180					30905		30618		
		98035	431	82075								41664		25704-
212+00	47		167											
100	106	98141	1094	70645	1.180					30905		30618		
		98141	1291	83366								41664		26889-
213+00	10		424											
100	35	98176	1852	72497	1.180					30905		30618		
		98176	2185	85551								41664		29039-
214+00	9		576											
100	33	98209	2178	74675	1.180					30905		30618		
		98209	2570	88121								41664		31576-
ADD VOLUME EBS														
215+00		98209		74675					1514	32419	1514	32132		
		98209		88121							1893	43557		33469-
215+00	9		600											
100	70	98279	1341	76016	1.180					32419		32132		
		98279	1582	89703								43557		34981-
216+00	29		124											
100	224	98503	237	76253	1.180					32419		32132		
		98503	280	89983								43557		35037-
217+00	92		4											
100	443	98946	50	76303	1.180					32419		32132		
		98946	59	90042								43557		34653-
218+00	147		23											
100	698	99644	57	76360	1.180					32419		32132		
		99644	67	90109								43557		34022-
219+00	230		8											

STATION DIST	UNCL/COM CUT AREA VOL	ACC VOL	FILL AREA VOL	ACC VOL	FACT	ROCK CUT AREA VOL	ACC VOL	FACT	MARSH CUT AREA VOL	ACC VOL	MARSH BACKFILL AREA VOL	ACC VOL	FACT	ACCUM NET
219+00	230		8											
100	544	100188	80	76440	1.180					32419		32132		
		100188	94	90203								43557		33572-
220+00	64		35											
100	359	100547	139	76579	1.180					32419		32132		
		100547	164	90367								43557		33377-
221+00	130		40											
101	404	100951	216	76795	1.180					32419		32132		
		100951	255	90622								43557		33228-
222+00	85		75											
100	172	101123	726	77521	1.180					32419		32132		
		101123	857	91479								43557		33913-
223+00	8		317											
100	54	101177	1267	78788	1.180					32419		32132		
		101177	1495	92974								43557		35354-
224+00	21		367											
100	111	101288	1644	80432	1.180					32419		32132		
		101288	1940	94914								43557		37183-
225+00	39		521											
100	187	101475	1967	82399	1.180					32419		32132		
		101475	2321	97235								43557		39317-
226+00	62		541											
100	289	101764	1878	84277	1.180					32419		32132		
		101764	2216	99451								43557		41244-
227+00	94		473											
68	118	101882	1519	85796	1.180					32419		32132		
		101882	1792	101243								43557		42918-
227+68			733											
22	2	101884	586	86382	1.180					32419		32132		
		101884	691	101934								43557		43607-
ADD VOLUME EBS														

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PROJ TITLE 2 STH 36, LOOMIS RD, TEUT TO CTH W,RAC. & WAUK.CO PROJECT 2240-07-00-19
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STATION / DIST	UNCL/COM CUT AREA VOL	UNCL/COM CUT AREA ACC VOL	FILL AREA VOL	FILL AREA ACC VOL	FACT	ROCK CUT AREA VOL	ROCK CUT AREA ACC VOL	FACT	MARSH CUT AREA VOL	MARSH CUT AREA ACC VOL	MARSH BACKFILL AREA VOL	MARSH BACKFILL AREA ACC VOL	FACT	ACCUM NET
ADD VOLUME EBS														
227+90		101884		86382					1883	34302	1883	34015		
		101884		101934							2354	45911		45961-
250	301	102185	5134	91516	1.180					34302		34015		
		102185	6058	107992								45911		51718-
230+40	60		403											
60	250	102435	711	92227	1.180					34302		34015		
		102435	839	108831								45911		52307-
231+00	165		237											
100	622	103057	722	92949	1.180					34302		34015		
		103057	852	109683								45911		52537-
232+00	171		153											
100	676	103733	419	93368	1.180					34302		34015		
		103733	494	110177								45911		52355-
233+00	194		73											
100	878	104611	169	93537	1.180					34302		34015		
		104611	199	110376								45911		51676-
234+00	280		18											
100	1298	105909	106	93643	1.180					34302		34015		
		105909	125	110501								45911		50503-
235+00	421		39											
100	1667	107576	139	93782	1.180					34302		34015		
		107576	164	110665								45911		49000-
236+00	479		36											
100	2031	109607	117	93899	1.180					34302		34015		
		109607	138	110803								45911		47107-
237+00	618		27											
100	2167	111774	124	94023	1.180					34302		34015		
		111774	146	110949								45911		45086-
238+00	552		40											
100	1406	113180	157	94180	1.180					34302		34015		
		113180	185	111134								45911		43865-
239+00	207		45											

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PROJ TITLE 2 STH 36, LOOMIS RD, TEUT TO CTH W,RAC. & WAUK.CO PROJECT 2240-07-00-19
RDWY TITLE COMBINED ROADWAY ROADWAY DESIGN YARDAGE LISTING DATE 10/28/94 PAGE 18

STATION / DIST	UNCL/COM CUT AREA VOL	UNCL/COM CUT AREA ACC VOL	FILL AREA VOL	FILL AREA ACC VOL	FACT	ROCK CUT AREA VOL	ROCK CUT AREA ACC VOL	FACT	MARSH CUT AREA VOL	MARSH CUT AREA ACC VOL	MARSH BACKFILL AREA VOL	MARSH BACKFILL AREA ACC VOL	FACT	ACCUM NET
239+00	207		45											
86	941	114121	72	94252	1.180					34302		34015		
		114121	85	111219								45911		43009-
239+86	384													
14	180	114301	10	94262	1.180					34302		34015		
		114301	12	111231								45911		42841-
240+00	312		40											
100	1317	115618	154	94416	1.180					34302		34015		
		115618	182	111413								45911		41706-
ADD VOLUME EBS														
241+00		115618		94416							674	34976	674	34689
		115618		111413							843	46754		42549-
241+00	399		43											
100	1294	116912	135	94551	1.180							34976		34689
		116912	159	111572										46754
242+00	300		30											41414-
100	1170	118082	91	94642	1.180							34976		34689
		118082	107	111679										46754
ADD VOLUME MARSH														40351-
243+00		118082		94642							844	35820	844	35533
		118082		111679							1207	47961		41558-
243+00	332		19											
100	850	118932	61	94703	1.180							35820		35533
		118932	72	111751										47961
244+00	127		14											40780-
100	470	119402	43	94746	1.180							35820		35533
		119402	51	111802										47961
245+00	127		9											40361-
100	291	119693	57	94803	1.180							35820		35533
		119693	67	111869										47961
246+00	30		22											40137-
100	131	119824	65	94868	1.180							35820		35533
		119824	77	111946										47961
247+00	41		13											40083-

STATION DIST	UNCL/COM CUT AREA VOL	ACC VOL	FILL AREA VOL	ACC VOL	FACT	ROCK CUT AREA VOL	ACC VOL	FACT	MARSH CUT AREA VOL	ACC VOL	MARSH BACKFILL AREA VOL	ACC VOL	FACT	ACCUM NET
247+00	41		13							35820		35533		
100	113	119937	78	94946	1.180							47961		40062-
		119937	92	112038										
248+00	20		29							35820		35533		
100	106	120043	74	95020	1.180							47961		40043-
		120043	87	112125										
249+00	37		11							35820		35533		
100	70	120113	193	95213	1.180							47961		40201-
		120113	228	112353										
250+00	1		93							35820		35533		
100	2	120115	569	95782	1.180							47961		40870-
		120115	671	113024										
251+00			214							35820		35533		
100	4	120119	867	96649	1.180							47961		41889-
		120119	1023	114047										
252+00	2		254							35820		35533		
100	22	120141	1089	97738	1.180							47961		43152-
		120141	1285	115332										
ADD VOLUME EBS														
253+00		120141		97738					879	36699	879	36412		
		120141		115332							1099	49060		44251-
253+00	10		334							36699		36412		
100	26	120167	1276	99014	1.180							49060		45731-
		120167	1506	116838										
254+00	4		355							36699		36412		
100	13	120180	1252	100266	1.180							49060		47195-
		120180	1477	118315										
255+00	3		321							36699		36412		
100	13	120193	917	101183	1.180							49060		48264-
		120193	1082	119397										
256+00	4		174							36699		36412		
50	13	120206	245	101428	1.180							49060		48540-
		120206	289	119686										
ADD VOLUME MARSH														

STATION DIST	UNCL/COM CUT AREA VOL	ACC VOL	FILL AREA VOL	ACC VOL	FACT	ROCK CUT AREA VOL	ACC VOL	FACT	MARSH CUT AREA VOL	ACC VOL	MARSH BACKFILL AREA VOL	ACC VOL	FACT	ACCUM NET
ADD VOLUME MARSH														
256+50		120206		101428					3020	39719	3020	39432		
		120206		119686							4319	53379		52859-
50	24	120230	91	101519	1.180					39719		39432		
		120230	107	119793								53379		52942-
257+00	16		7							39719		39432		
100	331	120561	13	101532	1.180							53379		52626-
		120561	15	119808										
258+00	163									39719		39432		
100	1248	121809	2	101534	1.180							53379		51380-
		121809	2	119810										
259+00	511		1							39719		39432		
100	2091	123900	128	101662	1.180							53379		49440-
		123900	151	119961										
260+00	618		68							39719		39432		
100	1976	125876	352	102014	1.180							53379		47879-
		125876	415	120376										
261+00	449		122							39719		39432		
100	856	126732	446	102460	1.180							53379		47549-
		126732	526	120902										
262+00	13		119							39719		39432		
100	270	127002	254	102714	1.180							53379		47579-
		127002	300	121202										
263+00	133		18							39719		39432		
100	1437	128439	33	102747	1.180							53379		46181-
		128439	39	121241										
ADD VOLUME EBS														
264+00		128439		102747					606	40325	606	40038		
		128439		121241							758	54137		46939-
264+00	643									40325		40038		
100	2709	131148		102747	1.180							54137		44230-
		131148		121241										
265+00	820													

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PROJ TITLE 2 STH 36, LOOMIS RD, TEUT TO CTH W,RAC. & WAUK.CO PROJECT 2240-07-00-19
RDWY TITLE COMBINED ROADWAY ROADWAY DESIGN YARDAGE LISTING DATE 10/28/94 PAGE 21

STATION / DIST	UNCL/COM CUT AREA VOL	ACC VOL	FILL AREA VOL	ACC VOL	FACT	ROCK CUT AREA VOL	ACC VOL	FACT	MARSH CUT AREA VOL	ACC VOL	MARSH BACKFILL AREA VOL	ACC VOL	FACT	ACCUM NET
265+00	820													
100	3567	134715		102747	1.180				40325		40038			
		134715		121241							54137			40663-
266+00	1106													
100	4337	139052		102747	1.180				40325		40038			
		139052		121241							54137			36326-
267+00	1236													
100	4335	143387		102747	1.180				40325		40038			
		143387		121241							54137			31991-
268+00	1105													
100	2581	145968	4	102751	1.180				40325		40038			
		145968	5	121246							54137			29415-
269+00	289		2											
100	556	146524	139	102890	1.180				40325		40038			
		146524	164	121410							54137			29023-
270+00	11		73											
16	6	146530	97	102987	1.180				40325		40038			
		146530	114	121524							54137			29131-
270+16	9		254											
84	165	146695	563	103550	1.180				40325		40038			
		146695	664	122188							54137			29630-
271+00	97		108											
100	441	147136	419	103969	1.180				40325		40038			
		147136	494	122682							54137			29683-
272+00	141		118											
100	519	147655	459	104428	1.180				40325		40038			
		147655	542	123224							54137			29706-
273+00	139		130											
100	624	148279	443	104871	1.180				40325		40038			
		148279	523	123747							54137			29605-
274+00	198		109											
100	709	148988	346	105217	1.180				40325		40038			
		148988	408	124155							54137			29304-
275+00	185		78											

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PROJ TITLE 2 STH 36, LOOMIS RD, TEUT TO CTH W,RAC. & WAUK.CO PROJECT 2240-07-00-19
RDWY TITLE COMBINED ROADWAY ROADWAY DESIGN YARDAGE LISTING DATE 10/28/94 PAGE 22

STATION / DIST	UNCL/COM CUT AREA VOL	ACC VOL	FILL AREA VOL	ACC VOL	FACT	ROCK CUT AREA VOL	ACC VOL	FACT	MARSH CUT AREA VOL	ACC VOL	MARSH BACKFILL AREA VOL	ACC VOL	FACT	ACCUM NET
275+00	185		78											
100	587	149575	193	105410	1.180					40325		40038		
		149575	228	124383								54137		28945-
276+00	132		26											
40	327	149902	20	105430	1.180					40325		40038		
		149902	24	124407								54137		28642-
276+40	309		1											
60	951	150853	11	105441	1.180					40325		40038		
		150853	13	124420								54137		27704-
ADD VOLUME	EBS													
277+00		150853		105441						643	40968	643	40681	
		150853		124420								804	54941	28508-
277+00	547		9											
100	3031	153884	17	105458	1.180					40968		40681		
		153884	20	124440								54941		25497-
278+00	1090													
100	4915	158799		105458	1.180					40968		40681		
		158799		124440								54941		20582-
279+00	1564													
100	5294	164093		105458	1.180					40968		40681		
		164093		124440								54941		15288-
280+00	1295													
100	4615	168708		105458	1.180					40968		40681		
		168708		124440								54941		10673-
281+00	1197													
100	4257	172965		105458	1.180					40968		40681		
		172965		124440								54941		6416-
282+00	1102													
100	4096	177061		105458	1.180					40968		40681		
		177061		124440								54941		2320-
283+00	1110													
60	2320	179381		105458	1.180					40968		40681		
		179381		124440								54941		

BALANCE TOTALS

STATION DIST	UNCL/COM CUT AREA VOL	ACC VOL	FILL AREA VOL	ACC VOL	FACT	ROCK CUT AREA VOL	ACC VOL	FACT	MARSH CUT AREA VOL	ACC VOL	MARSH BACKFILL AREA VOL	ACC VOL	FACT	ACCUM NET
BALANCE TOTALS														
283+60		82599		50833					16695		16695			
		82599		59978							22621			
40	1569	180950		105458	1.180				40968		40681			
		180950		124440							54941			1569+
284+00	990													
100	3041	183991		105458	1.180				40968		40681			
		183991		124440							54941			4610+
285+00	652													
100	1519	185510	59	105517	1.180				40968		40681			
		185510	70	124510							54941			6059+
286+00	168		32											
100	563	186073	289	105806	1.180				40968		40681			
		186073	341	124851							54941			6281+
287+00	136		124											
100	280	186353	602	106408	1.180				40968		40681			
		186353	710	125561							54941			5851+
288+00	15		201											
100	48	186401	411	106819	1.180				40968		40681			
		186401	485	126046							54941			5414+
289+00	11		21											
100	94	186495	159	106978	1.180				40968		40681			
		186495	188	126234							54941			5320+
290+00	40		65											
100	461	186956	120	107098	1.180				40968		40681			
		186956	142	126376							54941			5639+
ADD VOLUME EBS														
291+00		186956		107098										
		186956		126376										
291+00	209													
100	585	187541	24	107122	1.180				636	41604	636	41317		
		187541	28	126404							795	55736		4844+
292+00	107		13						41604		41317			
											55736			5401+

STATION DIST	UNCL/COM CUT AREA VOL	ACC VOL	FILL AREA VOL	ACC VOL	FACT	ROCK CUT AREA VOL	ACC VOL	FACT	MARSH CUT AREA VOL	ACC VOL	MARSH BACKFILL AREA VOL	ACC VOL	FACT	ACCUM NET
292+00	107		13											
100	600	188141	24	107146	1.180					41604		41317		
		188141	28	126432								55736		5973+
293+00	217													
100	1357	189498		107146	1.180					41604		41317		
		189498		126432								55736		7330+
294+00	516													
100	2163	191661	7	107153	1.180					41604		41317		
		191661	8	126440								55736		9485+
295+00	652		4											
100	2456	194117	17	107170	1.180					41604		41317		
		194117	20	126460								55736		11921+
296+00	674		5											
100	2506	196623	9	107179	1.180					41604		41317		
		196623	11	126471								55736		14416+
297+00	679													
25	434	197057		107179	1.180					41604		41317		
		197057		126471								55736		14850+
297+25	258													
75	478	197535	103	107282	1.180					41604		41317		
		197535	122	126593								55736		15206+
298+00	86		74											
100	589	198124	174	107456	1.180					41604		41317		
		198124	205	126798								55736		15590+
299+00	232		20											
100	1033	199157	56	107512	1.180					41604		41317		
		199157	66	126864								55736		16557+
300+00	326		10											
100	885	200042	50	107562	1.180					41604		41317		
		200042	59	126923								55736		17383+
301+00	152		17											
100	931	200973	50	107612	1.180					41604		41317		
		200973	59	126982								55736		18255+
302+00	351		10											

WISCONSIN DEPARTMENT OF TRANSPORTATION - DIVISION OF HIGHWAYS

PROJ TITLE 2 STH 36, LOOMIS RD, TEUT TO CTH W,RAC. & WAUK.CO PROJECT 2240-07-00-19
RDWY TITLE COMBINED ROADWAY ROADWAY DESIGN YARDAGE LISTING DATE 10/28/94 PAGE 25

STATION DIST	UNCL/COM CUT AREA VOL	ACC VOL	FILL AREA VOL	ACC VOL	FACT	ROCK CUT AREA VOL	ACC VOL	FACT	MARSH CUT AREA VOL	ACC VOL	MARSH BACKFILL AREA VOL	ACC VOL	FACT	ACCUM NET
302+00	351		10											
100	1398	202371	31	107643	1.180					41604		41317		
		202371	37	127019								55736		19616+
303+00	404		7											
100	1122	203493	39	107682	1.180					41604		41317		
		203493	46	127065								55736		20692+
304+00	202		14											
100	604	204097	59	107741	1.180					41604		41317		
		204097	70	127135								55736		21226+
305+00	124		18											
100	296	204393	330	108071	1.180					41604		41317		
		204393	389	127524								55736		21133+
ADD VOLUME EBS														
306+00		204393		108071					181	41785	181	41498		
		204393		127524							226	55962		20907+
306+00	36		160											
100	96	204489	767	108838	1.180					41785		41498		
		204489	905	128429								55962		20098+
307+00	16		254											
100	57	204546	1046	109884	1.180					41785		41498		
		204546	1234	129663								55962		18921+
308+00	15		311											
100	59	204605	1181	111065	1.180					41785		41498		
		204605	1394	131057								55962		17586+
309+00	17		327											
100	113	204718	985	112050	1.180					41785		41498		
		204718	1162	132219								55962		16537+
310+00	44		205											
100	209	204927	735	112785	1.180					41785		41498		
		204927	867	133086								55962		15879+
311+00	69		192											
100	250	205177	711	113496	1.180					41785		41498		
		205177	839	133925								55962		15290+
312+00	66		192											

WISCONSIN DEPARTMENT OF TRANSPORTATION - DIVISION OF HIGHWAYS

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PROJ TITLE 2 STH 36, LOOMIS RD, TEUT TO CTH W,RAC. & WAUK.CO PROJECT 2240-07-00-19
RDWY TITLE COMBINED ROADWAY ROADWAY DESIGN YARDAGE LISTING DATE 10/28/94 PAGE 26

STATION DIST	UNCL/COM CUT AREA VOL	ACC VOL	FILL AREA VOL	ACC VOL	FACT	ROCK CUT AREA VOL	ACC VOL	FACT	MARSH CUT AREA VOL	ACC VOL	MARSH BACKFILL AREA VOL	ACC VOL	FACT	ACCUM NET
312+00	66		192											
100	144	205321	1050	114546	1.180					41785		41498		
		205321	1239	135164								55962		14195+
313+00	12		375											
100	104	205425	1585	116131	1.180					41785		41498		
		205425	1870	137034								55962		12429+
314+00	44		481											
100	81	205506	2424	118555	1.180					41785		41498		
		205506	2860	139894								55962		9650+
ADD VOLUME EBS														
315+00		205506		118555						42683	898	42396		
		205506		139894							1123	57085		8527+
315+00			828											
100		205506	3161	121716	1.180					42683		42396		
		205506	3730	143624								57085		4797+
316+00			879											
100		205506	2661	124377	1.180					42683		42396		
		205506	3140	146764								57085		1657+
317+00			558											
65	1	205507	1405	125782	1.180					42683		42396		
		205507	1658	148422								57085		
BALANCE TOTALS														
317+65		26126		20324						1715		1715		
		26126		23982								2144		
	35	1 205508	762	126544	1.180					42683		42396		
		205508	899	149321								57085		898-
318+00	1		612											
100	4	205512	2344	128888	1.180					42683		42396		
		205512	2766	152087								57085		3660-
319+00	1		654											
100	2	205514	2463	131351	1.180					42683		42396		
		205514	2906	154993								57085		6564-
320+00			676											

STATION / DIST	UNCL/COM CUT AREA VOL	UNCL/COM CUT AREA ACC VOL	FILL AREA VOL	FILL AREA ACC VOL	FACT	ROCK CUT AREA VOL	ROCK CUT AREA ACC VOL	MARSH CUT AREA VOL	MARSH CUT AREA ACC VOL	MARSH BACKFILL AREA VOL	MARSH BACKFILL AREA ACC VOL	ACCUM NET
320+00			676									
50		205514	1380	132731	1.180				42683		42396	
		205514	1628	156621							57085	8192-
ADD VOLUME MARSH												
320+50		205514		132731				7139	49822	7139	49535	
		205514		156621						10209	67294	18401-
									49822		49535	
150		205514	5669	138400	1.180						67294	25090-
		205514	6689	163310								
322+00			1227						49822		49535	
100		205514	3194	141594	1.180						67294	28859-
		205514	3769	167079								
323+00			498						49822		49535	
100	67	205581	2272	143866	1.180						67294	31473-
		205581	2681	169760								
324+00	36		729						49822		49535	
100	67	205648	3041	146907	1.180						67294	34994-
		205648	3588	173348								
325+00			913						49822		49535	
100		205648	3178	150085	1.180						67294	38744-
		205648	3750	177098								
326+00			803						49822		49535	
50		205648	1358	151443	1.180						67294	40346-
		205648	1602	178700								
ADD VOLUME MARSH												
326+50		205648		151443				2476	52298	2476	52011	
		205648		178700						3541	70835	43887-
									52298		52011	
50		205648	1100	152543	1.180						70835	45185-
		205648	1298	179998								
327+00			524						52298		52011	
100	50	205698	1541	154084	1.180						70835	46953-
		205698	1818	181816								
328+00	27		308									

STATION / DIST	UNCL/COM CUT AREA VOL	UNCL/COM CUT AREA ACC VOL	FILL AREA VOL	FILL AREA ACC VOL	FACT	ROCK CUT AREA VOL	ROCK CUT AREA ACC VOL	MARSH CUT AREA VOL	MARSH CUT AREA ACC VOL	MARSH BACKFILL AREA VOL	MARSH BACKFILL AREA ACC VOL	ACCUM NET
328+00	27		308									
100	207	205905	965	155049	1.180				52298		52011	
		205905	1139	182955							70835	47885-
329+00	85		213						52298		52011	
100	254	206159	837	155886	1.180						70835	48619-
		206159	988	183943								
330+00	52		239						52298		52011	
100	276	206435	746	156632	1.180						70835	49223-
		206435	880	184823								
331+00	97		164						52298		52011	
100	498	206933	463	157095	1.180						70835	49271-
		206933	546	185369								
ADD VOLUME EBS												
332+00		206933		157095				1285	53583	1285	53296	
		206933		185369						1606	72441	50877-
332+00	172		86						53583		53296	
100	1102	208035	278	157373	1.180						72441	50103-
		208035	328	185697								
333+00	423		64						53583		53296	
100	1654	209689	194	157567	1.180						72441	48678-
		209689	229	185926								
334+00	470		41						53583		53296	
100	1504	211193	150	157717	1.180						72441	47351-
		211193	177	186103								
335+00	342		40						53583		53296	
100	791	211984	117	157834	1.180						72441	46698-
		211984	138	186241								
336+00	85		23						53583		53296	
100	180	212164	228	158062	1.180						72441	46787-
		212164	269	186510								
337+00	12		100						53583		53296	
100	33	212197	572	158634	1.180						72441	47429-
		212197	675	187185								
338+00	6		209									

STATION DIST	UNCL/COM CUT AREA VOL	UNCL/COM CUT AREA ACC VOL	FILL AREA VOL	FILL AREA ACC VOL	FACT	ROCK CUT AREA VOL	ROCK CUT AREA ACC VOL	FACT	MARSH CUT AREA VOL	MARSH CUT AREA ACC VOL	MARSH BACKFILL AREA VOL	MARSH BACKFILL AREA ACC VOL	FACT	ACCUM NET
338+00	6		209											
100	11	212208	1154	159788	1.180					53583		53296		
		212208	1362	188547								72441		48780-
339+00			414											
100		212208	2139	161927	1.180					53583		53296		
		212208	2524	191071								72441		51304-
ADD VOLUME EBS														
340+00		212208		161927					1430	55013	1430	54726		
		212208		191071							1788	74229		53092-
340+00			741											
95		212208	2864	164791	1.180					55013		54726		
		212208	3380	194451								74229		56472-
340+95			887											
5	2	212210	160	164951	1.180					55013		54726		
		212210	189	194640								74229		56659-
341+00	26		843											
100	65	212275	2933	167884	1.180					55013		54726		
		212275	3461	198101								74229		60055-
342+00	9		741											
100	35	212310	2141	170025	1.180					55013		54726		
		212310	2526	200627								74229		62546-
ADD VOLUME MARSH														
343+00		212310		170025					6386	61399	6386	61112		
		212310		200627							9132	83361		71678-
343+00	10		415											
95	568	212878	730	170755	1.180					61399		61112		
		212878	861	201488								83361		71971-
343+95	313													
5	30	212908	25	170780	1.180					61399		61112		
		212908	30	201518								83361		71971-
344+00	14		266											
100	628	213536	493	171273	1.180					61399		61112		
		213536	582	202100								83361		71925-
345+00	325													

STATION DIST	UNCL/COM CUT AREA VOL	UNCL/COM CUT AREA ACC VOL	FILL AREA VOL	FILL AREA ACC VOL	FACT	ROCK CUT AREA VOL	ROCK CUT AREA ACC VOL	FACT	MARSH CUT AREA VOL	MARSH CUT AREA ACC VOL	MARSH BACKFILL AREA VOL	MARSH BACKFILL AREA ACC VOL	FACT	ACCUM NET
345+00	325													
100	926	214462	44	171317	1.180					61399		61112		
		214462	52	202152								83361		71051-
346+00	175		24											
100	763	215225	89	171406	1.180					61399		61112		
		215225	105	202257								83361		70393-
347+00	237		24											
100	896	216121	102	171508	1.180					61399		61112		
		216121	120	202377								83361		69617-
348+00	247		31											
100	939	217060	109	171617	1.180					61399		61112		
		217060	129	202506								83361		68807-
349+00	260		28											
100	1043	218103	130	171747	1.180					61399		61112		
		218103	153	202659								83361		67917-
350+00	303		42											
100	1256	219359	178	171925	1.180					61399		61112		
		219359	210	202869								83361		66871-
ADD VOLUME EBS														
351+00		219359		171925					860	62259	860	61972		
		219359		202869							1075	84436		67946-
351+00	375		54											
100	1072	220431	294	172219	1.180					62259		61972		
		220431	347	203216								84436		67221-
352+00	204		105											
100	450	220881	717	172936	1.180					62259		61972		
		220881	846	204062								84436		67617-
353+00	39		282											
100	233	221114	1063	173999	1.180					62259		61972		
		221114	1254	205316								84436		68638-
354+00	87		292											
100	802	221916	657	174656	1.180					62259		61972		
		221916	775	206091								84436		68611-
355+00	346		63											

WISCONSIN DEPARTMENT OF TRANSPORTATION - DIVISION OF HIGHWAYS

PROJ TITLE 2 STH 36, LOOMIS RD, TEUT TO CTH W,RAC. & WAUK.CO PROJECT 2240-07-00-19
RDWY TITLE COMBINED ROADWAY ROADWAY DESIGN YARDAGE LISTING DATE 10/28/94 PAGE 31

STATION / DIST	UNCL/COM CUT AREA VOL	UNCL/COM CUT AREA ACC VOL	FILL AREA VOL	FILL AREA ACC VOL	FILL AREA FACT	ROCK CUT AREA VOL	ROCK CUT AREA ACC VOL	ROCK CUT AREA FACT	MARSH CUT AREA VOL	MARSH CUT AREA ACC VOL	MARSH BACKFILL AREA VOL	MARSH BACKFILL AREA ACC VOL	MARSH BACKFILL AREA FACT	ACCUM NET
355+00	346		63											
96	1891	223807	169	174825	1.180					62259		61972		
		223807	199	206290								84436		66919-
356+00	714		32											
100	2807	226614	96	174921	1.180					62259		61972		
		226614	113	206403								84436		64225-
357+00	802		20											
100	3131	229745	41	174962	1.180					62259		61972		
		229745	48	206451								84436		61142-
358+00	889		2											
100	2967	232712	4	174966	1.180					62259		61972		
		232712	5	206456								84436		58180-
ADD VOLUME	EBS													
359+00		232712		174966					163	62422	163	62135		
		232712		206456							204	84640		58384-
359+00	713													
100	2515	235227		174966	1.180					62422		62135		
		235227		206456								84640		55869-
360+00	645													
100	2233	237460		174966	1.180					62422		62135		
		237460		206456								84640		53636-
361+00	561													
100	1654	239114	6	174972	1.180					62422		62135		
		239114	7	206463								84640		51989-
362+00	332		3											
100	765	239879	107	175079	1.180					62422		62135		
		239879	126	206589								84640		51350-
363+00	81		55											
100	180	240059	552	175631	1.180					62422		62135		
		240059	651	207240								84640		51821-
364+00	16		243											
100	554	240613	491	176122	1.180					62422		62135		
		240613	579	207819								84640		51846-
365+00	283		22											

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PROJ TITLE 2 STH 36, LOOMIS RD, TEUT TO CTH W,RAC. & WAUK.CO PROJECT 2240-07-00-19
RDWY TITLE COMBINED ROADWAY ROADWAY DESIGN YARDAGE LISTING DATE 10/28/94 PAGE 32

STATION / DIST	UNCL/COM CUT AREA VOL	UNCL/COM CUT AREA ACC VOL	FILL AREA VOL	FILL AREA ACC VOL	FILL AREA FACT	ROCK CUT AREA VOL	ROCK CUT AREA ACC VOL	ROCK CUT AREA FACT	MARSH CUT AREA VOL	MARSH CUT AREA ACC VOL	MARSH BACKFILL AREA VOL	MARSH BACKFILL AREA ACC VOL	MARSH BACKFILL AREA FACT	ACCUM NET
365+00	283		22											
100	1922	242535	41	176163	1.180					62422		62135		
		242535	48	207867								84640		49972-
ADD VOLUME	EBS													
366+00		242535		176163					183	62605	183	62318		
		242535		207867							229	84869		50201-
366+00	755													
100	2839	245374		176163	1.180					62605		62318		
		245374		207867								84869		47362-
367+00	778													
100	2989	248363		176163	1.180					62605		62318		
		248363		207867								84869		44373-
368+00	836													
100	2922	251285		176163	1.180					62605		62318		
		251285		207867								84869		41451-
369+00	742													
100	2713	253998		176163	1.180					62605		62318		
		253998		207867								84869		38738-
370+00	723													
100	1428	255426	139	176302	1.180					62605		62318		
		255426	164	208031								84869		37474-
371+00	48		75											
100	107	255533	769	177071	1.180					62605		62318		
		255533	907	208938								84869		38274-
372+00	10		340											
100	43	255576	896	177967	1.180					62605		62318		
		255576	1057	209995								84869		39288-
373+00	13		144											
100	431	256007	278	178245	1.180					62605		62318		
		256007	328	210323								84869		39185-
374+00	220		6											
100	433	256440	150	178395	1.180					62605		62318		
		256440	177	210500								84869		38929-
375+00	14		75											

STATION DIST	UNCL/COM CUT AREA VOL	ACC VOL	FILL AREA VOL	ACC VOL	FACT	ROCK CUT AREA VOL	ACC VOL	FACT	MARSH CUT AREA VOL	ACC VOL	MARSH BACKFILL AREA VOL	ACC VOL	FACT	ACCUM NET
375+00	14		75											
100	39	256479	722	179117	1.180					62605		62318		
		256479	852	211352								84869		39742-
376+00	7		315											
100	35	256514	1098	180215	1.180					62605		62318		
		256514	1296	212648								84869		41003-
377+00	12		278											
100	76	256590	737	180952	1.180					62605		62318		
		256590	870	213518								84869		41797-
378+00	29		120											
100	637	257227	222	181174	1.180					62605		62318		
		257227	262	213780								84869		41422-
ADD VOLUME	EBS													
379+00		257227		181174					546	63151	546	62864		
		257227		213780							683	85552		42105-
379+00	315													
100	1537	258764		181174	1.180					63151		62864		
		258764		213780								85552		40568-
380+00	515													
100	2148	260912		181174	1.180					63151		62864		
		260912		213780								85552		38420-
381+00	645													
100	2383	263295		181174	1.180					63151		62864		
		263295		213780								85552		36037-
382+00	642													
100	2707	266002		181174	1.180					63151		62864		
		266002		213780								85552		33330-
383+00	820													
100	2676	268678	26	181200	1.180					63151		62864		
		268678	31	213811								85552		30685-
384+00	625		14											
100	1211	269889	561	181761	1.180					63151		62864		
		269889	662	214473								85552		30136-
385+00	29		289											

9.16

STATION DIST	UNCL/COM CUT AREA VOL	ACC VOL	FILL AREA VOL	ACC VOL	FACT	ROCK CUT AREA VOL	ACC VOL	FACT	MARSH CUT AREA VOL	ACC VOL	MARSH BACKFILL AREA VOL	ACC VOL	FACT	ACCUM NET
385+00	29		289											
100	120	270009	1263	183024	1.180							62864		
		270009	1490	215963								85552		31506-
386+00	36		393											
100	100	270109	1626	184650	1.180					63151		62864		
		270109	1919	217882								85552		33325-
ADD VOLUME	MARSH													
387+00		270109		184650										
		270109		217882										
387+00	18		485											
100	65	270174	1822	186472	1.180					63151		62864		
		270174	2150	220032								85552		35496-
388+00	17		499											
98	323	270497	1012	187484	1.180									
		270497	1194	221226								64669		
389+00	160		56											
11	121	270618	11	187495	1.180					63151		62864		
		270618	13	221239								85552		37581-
389+11	434													
89	1175	271793	5	187500	1.180									
		271793	6	221245								64669		
ADD VOLUME	EBS													
390+00		271793		187500										
		271793		221245										
390+00	279		3											
100	839	272632	189	187689	1.180					63151		62864		
		272632	223	221468								85552		38452-
391+00	174		99											
100	457	273089	280	187969	1.180									
		273089	330	221798								64669		
392+00	73		52											
100	165	273254	174	188143	1.180					63151		62864		
		273254	205	222003								85552		38344-
393+00	16		42											
			414	65083							414	64796		
											518	88241		37175-
				65083								64796		
												88241		37693-
												64796		
				65083								88241		37077-
												64796		
				65083								88241		36950-
												64796		
				65083								88241		36990-

WISCONSIN DEPARTMENT OF TRANSPORTATION - DIVISION OF HIGHWAYS

PROJ TITLE 2 STH 36, LOOMIS RD, TEUT TO CTH W,RAC. & WAUK.CO PROJECT 2240-07-00-19
RDWY TITLE COMBINED ROADWAY ROADWAY DESIGN YARDAGE LISTING DATE 10/28/94 PAGE 35

STATION / DIST	UNCL/COM CUT AREA VOL	ACC VOL	FILL AREA VOL	ACC VOL	FACT	ROCK CUT AREA VOL	ACC VOL	FACT	MARSH CUT AREA VOL	ACC VOL	MARSH BACKFILL AREA VOL	ACC VOL	FACT	ACCUM NET
393+00	16		42							65083		64796		
100	63	273317	219	188362	1.180							88241		37185-
		273317	258	222261										
394+00	18		76							65083		64796		
100	135	273452	256	188618	1.180							88241		37352-
		273452	302	222563										
395+00	55		62							65083		64796		
100	513	273965	215	188833	1.180							88241		37093-
		273965	254	222817										
396+00	222		54							65083		64796		
100	1198	275163	187	189020	1.180							88241		36116-
		275163	221	223038										
ADD VOLUME	EBS													
397+00		275163		189020					1918	67001	1918	66714		
		275163		223038							2398	90639		38514-
397+00	425		47							67001		66714		
100	1243	276406	133	189153	1.180							90639		37428-
		276406	157	223195										
398+00	246		25							67001		66714		
100	943	277349	56	189209	1.180							90639		36551-
		277349	66	223261										
399+00	263		5							67001		66714		
100	965	278314	9	189218	1.180							90639		35597-
		278314	11	223272										
400+00	258									67001		66714		
100	750	279064	4	189222	1.180							90639		34852-
		279064	5	223277										
401+00	147		2							67001		66714		
100	550	279614	4	189226	1.180							90639		34307-
		279614	5	223282										
402+00	150									67001		66714		
100	296	279910	133	189359	1.180							90639		34168-
		279910	157	223439										
403+00	10		72											

WISCONSIN DEPARTMENT OF TRANSPORTATION - DIVISION OF HIGHWAYS

9.17

PROJ TITLE 2 STH 36, LOOMIS RD, TEUT TO CTH W,RAC. & WAUK.CO PROJECT 2240-07-00-19
RDWY TITLE COMBINED ROADWAY ROADWAY DESIGN YARDAGE LISTING DATE 10/28/94 PAGE 36

STATION / DIST	UNCL/COM CUT AREA VOL	ACC VOL	FILL AREA VOL	ACC VOL	FACT	ROCK CUT AREA VOL	ACC VOL	FACT	MARSH CUT AREA VOL	ACC VOL	MARSH BACKFILL AREA VOL	ACC VOL	FACT	ACCUM NET
403+00	10		72											
100	81	279991	196	189555	1.180					67001		66714		
		279991	231	223670								90639		34318-
404+00	34		34							67001		66714		
100	398	280389	63	189618	1.180							90639		33994-
		280389	74	223744										
ADD VOLUME	EBS													
405+00		280389		189618					371	67372	371	67085		
		280389		223744							464	91103		34458-
405+00	181									67372		67085		
100	2009	282398		189618	1.180							91103		32449-
		282398		223744										
406+00	904									67372		67085		
100	3204	285602		189618	1.180							91103		29245-
		285602		223744										
407+00	826									67372		67085		
100	2641	288243		189618	1.180							91103		26604-
		288243		223744										
408+00	600									67372		67085		
100	1741	289984	11	189629	1.180							91103		24876-
		289984	13	223757										
409+00	340		6							67372		67085		
100	796	290780	96	189725	1.180							91103		24193-
		290780	113	223870										
410+00	90		46							67372		67085		
100	228	291008	224	189949	1.180							91103		24229-
		291008	264	224134										
ADD VOLUME	MARSH													
411+00		291008		189949					1570	68942	1536	68621		
		291008		224134							2196	93299		26425-
411+00	33		75							68942		68621		
100	106	291114	346	190295	1.180							93299		26727-
		291114	408	224542										
412+00	24		112											

STATION / DIST	UNCL/COM CUT AREA VOL	ACC VOL	FILL AREA VOL	ACC VOL	FACT	ROCK CUT AREA VOL	ACC VOL	FACT	MARSH CUT AREA VOL	ACC VOL	MARSH BACKFILL AREA VOL	ACC VOL	FACT	ACCUM NET
412+00	24		112											
100	87	291201	530	190825	1.180					68942		68621		
		291201	625	225167								93299		27265-
413+00	23		174											
84	53	291254	835	191660	1.180					68942		68621		
		291254	985	226152								93299		28197-
413+84	11		363											
16	9	291263	179	191839	1.180					68942		68621		
		291263	211	226363								93299		28399-
414+00	19		241											
100	102	291365	667	192506	1.180					68942		68621		
		291365	787	227150								93299		29084-
415+00	36		119											
100	713	292078	226	192732	1.180					68942		68621		
		292078	267	227417								93299		28638-
416+00	349		3											
100	2261	294339	6	192738	1.180					68942		68621		
		294339	7	227424								93299		26384-
ADD VOLUME EBS														
417+00		294339		192738					1217	70159	1217	69838		
		294339		227424							1521	94820		27905-
417+00	872													
100	4004	298343		192738	1.180					70159		69838		
		298343		227424								94820		23901-
418+00	1290													
100	4070	302413		192738	1.180					70159		69838		
		302413		227424								94820		19831-
419+00	908													
100	2489	304902	37	192775	1.180					70159		69838		
		304902	44	227468								94820		17386-
420+00	436		20											
100	2587	307489	37	192812	1.180					70159		69838		
		307489	44	227512								94820		14843-
ADD VOLUME EBS														

STATION / DIST	UNCL/COM CUT AREA VOL	ACC VOL	FILL AREA VOL	ACC VOL	FACT	ROCK CUT AREA VOL	ACC VOL	FACT	MARSH CUT AREA VOL	ACC VOL	MARSH BACKFILL AREA VOL	ACC VOL	FACT	ACCUM NET
ADD VOLUME EBS														
421+00		307489		192812										
		307489		227512										
421+00	961													
100	4819	312308		192812	1.180									
		312308		227512										
422+00	1641													
100	5539	317847		192812	1.180									
		317847		227512										
423+00	1350													
100	3594	321441		192812	1.180									
		321441		227512										
424+00	591													
43	919	322360		192812	1.180									
		322360		227512										
BALANCE TOTALS														
424+43		116853		67030										
		116853		79090										
	57	1214	323574		192812	1.180								
			323574		227512									
425+00	561													
100	1909	325483	11	192823	1.180									
		325483	13	227525										
426+00	470		6											
100	1793	327276	111	192934	1.180									
		327276	131	227656										
427+00	498		54											
100	943	328219	356	193290	1.180									
		328219	420	228076										
428+00	11		138											
49	275	328494	125	193415	1.180									
		328494	148	228224										
428+49	292													

ACCUM NET
14871-
10052-
4513-
919-
1214+
3110+
4772+
5295+
5422+

STATION DIST	UNCL/COM CUT AREA VOL	ACC VOL	FILL AREA VOL	ACC VOL	FACT	ROCK CUT AREA VOL	ACC VOL	FACT	MARSH CUT AREA VOL	ACC VOL	MARSH BACKFILL AREA VOL	ACC VOL	FACT	ACCUM NET
428+49	292													
51	327	328821	42	193457	1.180				70181		69860			
		328821	50	228274							94848			5699+
429+00	54		45											
100	2898	331719	98	193555	1.180				70181		69860			
		331719	116	228390							94848			8481+
430+00	1511		8											
100	4981	336700	15	193570	1.180				70181		69860			
		336700	18	228408							94848			13444+
431+00	1179													
100	3550	340250		193570	1.180				70181		69860			
		340250		228408							94848			16994+
432+00	738													
100	1583	341833	502	194072	1.180				70181		69860			
		341833	592	229000							94848			17985+
433+00	117		271											
100	219	342052	1178	195250	1.180				70181		69860			
		342052	1390	230390							94848			16814+
434+00	1		365											
100	7	342059	1219	196469	1.180				70181		69860			
		342059	1438	231828							94848			15383+
435+00	3		293											
100	26	342085	754	197223	1.180				70181		69860			
		342085	890	232718							94848			14519+
ADD VOLUME EBS														
436+00		342085		197223										
		342085		232718										
436+00	11		114											
100	24	342109	420	197643	1.180				1505	71686	1505	71365		
		342109	496	233214					1881		96729			12638+
437+00	2		113											
100	152	342261	852	198495	1.180				71686		71365			
		342261	1005	234219							96729			12166+
438+00	80		347											
									71686		71365			
											96729			11313+

STATION DIST	UNCL/COM CUT AREA VOL	ACC VOL	FILL AREA VOL	ACC VOL	FACT	ROCK CUT AREA VOL	ACC VOL	FACT	MARSH CUT AREA VOL	ACC VOL	MARSH BACKFILL AREA VOL	ACC VOL	FACT	ACCUM NET
438+00	80		347											
100	154	342415	1267	199762	1.180					71686		71365		
		342415	1495	235714								96729		9972+
439+00	3		337											
100	7	342422	1259	201021	1.180					71686		71365		
		342422	1486	237200								96729		8493+
440+00	1		343											
100	19	342441	1341	202362	1.180					71686		71365		
		342441	1582	238782								96729		6930+
441+00	9		381											
100	17	342458	1630	203992	1.180					71686		71365		
		342458	1923	240705								96729		5024+
442+00			499											
100	2	342460	1922	205914	1.180					71686		71365		
		342460	2268	242973								96729		2758+
443+00	1		539											
100	6	342466	1841	207755	1.180					71686		71365		
		342466	2172	245145								96729		592+
444+00	2		455											
34	7	342473	507	208262	1.180					71686		71365		
		342473	598	245743								96729		
BALANCE TOTALS														
444+34		20113		15450						1505		1505		
		20113		18231								1881		
66	13	342486	986	209248	1.180					71686		71365		
		342486	1164	246907								96729		1151-
445+00	9		351											
100	226	342712	691	209939	1.180					71686		71365		
		342712	815	247722								96729		1740-
ADD VOLUME EBS														

STATION / DIST	UNCL/COM CUT AREA VOL	UNCL/COM CUT AREA ACC VOL	FILL AREA VOL	FILL AREA ACC VOL	FACT	ROCK CUT AREA VOL	ROCK CUT AREA ACC VOL	FACT	MARSH CUT AREA VOL	MARSH CUT AREA ACC VOL	MARSH BACKFILL AREA VOL	MARSH BACKFILL AREA ACC VOL	FACT	ACCUM NET
ADD VOLUME EBS														
446+00		342712		209939					1830	73516	1830	73195		
		342712		247722							2288	99017		4028-
446+00	113		22											
100	333	343045	54	209993	1.180					73516		73195		
		343045	64	247786								99017		3759-
447+00	67		7											
100	237	343282	150	210143	1.180					73516		73195		
		343282	177	247963								99017		3699-
448+00	61		74											
17	78	343360	23	210166	1.180					73516		73195		
		343360	27	247990								99017		3648-
448+17	187													
83	309	343669	61	210227	1.180					73516		73195		
		343669	72	248062								99017		3411-
449+00	14		40											
100	72	343741	122	210349	1.180					73516		73195		
		343741	144	248206								99017		3483-
450+00	25		26											
100	76	343817	198	210547	1.180					73516		73195		
		343817	234	248440								99017		3641-
451+00	16		81											
100	54	343871	356	210903	1.180					73516		73195		
		343871	420	248860								99017		4007-
452+00	13		111											
100	24	343895	565	211468	1.180					73516		73195		
		343895	667	249527								99017		4650-
453+00			194											
100		343895	1002	212470	1.180					73516		73195		
		343895	1182	250709								99017		5832-
454+00			347											
100		343895	1557	214027	1.180					73516		73195		
		343895	1837	252546								99017		7669-
455+00			494											

STATION / DIST	UNCL/COM CUT AREA VOL	UNCL/COM CUT AREA ACC VOL	FILL AREA VOL	FILL AREA ACC VOL	FACT	ROCK CUT AREA VOL	ROCK CUT AREA ACC VOL	FACT	MARSH CUT AREA VOL	MARSH CUT AREA ACC VOL	MARSH BACKFILL AREA VOL	MARSH BACKFILL AREA ACC VOL	FACT	ACCUM NET
455+00			494											
100	13	343908	1276	215303	1.180					73516		73195		
		343908	1506	254052								99017		9162-
456+00	7		195											
100	1131	345039	367	215670	1.180					73516		73195		
		345039	433	254485								99017		8464-
ADD VOLUME EBS														
457+00		345039		215670							1358	74874	1358	74553
		345039		254485									1698	100715		10162-
457+00	604		3											
100	2613	347652	9	215679	1.180							74874		74553
		347652	11	254496										100715		7560-
458+00	807		2											
100	3213	350865	9	215688	1.180							74874		74553
		350865	11	254507										100715		4358-
459+00	928		3											
99	4365	355230	6	215694	1.180							74874		74553
		355230	7	254514										100715		
BALANCE TOTALS														
459+99		12757		7432							3188		3188	
		12757		8771										3986		
1	39	355269		215694	1.180							74874		74553
		355269		254514										100715		39+
460+00	1450													
100	5776	361045		215694	1.180							74874		74553
		361045		254514										100715		5815+
461+00	1669													
100	6454	367499		215694	1.180							74874		74553
		367499		254514										100715		12269+
462+00	1816													
100	5657	373156		215694	1.180							74874		74553
		373156		254514										100715		17926+
463+00	1239													

STATION / DIST	UNCL/COM CUT AREA VOL	ACC VOL	FILL AREA VOL	ACC VOL	FACT	ROCK CUT AREA VOL	ACC VOL	FACT	MARSH CUT AREA VOL	ACC VOL	MARSH BACKFILL AREA VOL	ACC VOL	FACT	ACCUM NET
463+00	1239													
100	2941	376097	24	215718	1.180				74874		74553			
		376097	28	254542							100715			20839+
464+00	349		13											
100	1002	377099	196	215914	1.180				74874		74553			
		377099	231	254773							100715			21610+
465+00	192		93											
100	356	377455	774	216688	1.180				74874		74553			
		377455	913	255686							100715			21053+
466+00			325											
38	37	377492	637	217325	1.180				74874		74553			
		377492	752	256438							100715			20338+
466+38	53		580											
62	67	377559	1318	218643	1.180				74874		74553			
		377559	1555	257993							100715			18850+
467+00	5		568											
100	17	377576	2107	220750	1.180				74874		74553			
		377576	2486	260479							100715			16381+
468+00	4		570											
100	70	377646	1339	222089	1.180				74874		74553			
		377646	1580	262059							100715			14871+
469+00	34		153											
100	506	378152	346	222435	1.180				74874		74553			
		378152	408	262467							100715			14969+
470+00	239		34											
100	731	378883	130	222565	1.180				74874		74553			
		378883	153	262620							100715			15547+
471+00	156		36											
100	476	379359	141	222706	1.180				74874		74553			
		379359	166	262786							100715			15857+
ADD VOLUME	EBS													

STATION / DIST	UNCL/COM CUT AREA VOL	ACC VOL	FILL AREA VOL	ACC VOL	FACT	ROCK CUT AREA VOL	ACC VOL	FACT	MARSH CUT AREA VOL	ACC VOL	MARSH BACKFILL AREA VOL	ACC VOL	FACT	ACCUM NET
ADD VOLUME	EBS													
472+00		379359		222706					2026	76900	2026	76579		
		379359		262786							2533	103248		13324+
472+00	101		40											
100	307	379666	161	222867	1.180					76900		76579		
		379666	190	262976								103248		13441+
473+00	65		47											
100	361	380027	104	222971	1.180					76900		76579		
		380027	123	263099								103248		13679+
ADD VOLUME	MARSH													
474+00		380027		222971					1494	78394	1494	78073		
		380027		263099							2136	105384		11543+
474+00	130		9											
100	728	380755	17	222988	1.180					78394		78073		
		380755	20	263119								105384		12251+
475+00	263													
100	552	381307	344	223332	1.180					78394		78073		
		381307	406	263525								105384		12397+
476+00	35		186											
100	122	381429	1031	224363	1.180					78394		78073		
		381429	1217	264742								105384		11302+
477+00	31		371											
100	57	381486	1676	226039	1.180					78394		78073		
		381486	1978	266720								105384		9381+
478+00			534											
98		381486	2235	228274	1.180					78394		78073		
		381486	2637	269357								105384		6744+
479+00			700											
75	12	381498	2050	230324	1.180					78394		78073		
		381498	2419	271776								105384		4337+
479+75	9		776											
25	4	381502	686	231010	1.180					78394		78073		
		381502	809	272585								105384		3532+
480+00			706											

9.22

WISCONSIN DEPARTMENT OF TRANSPORTATION - DIVISION OF HIGHWAYS

PROJ TITLE 2 STH 36, LOOMIS RD, TEUT TO CTH W,RAC. & WAUK.CO PROJECT 2240-07-00-19
RDWY TITLE COMBINED ROADWAY ROADWAY DESIGN YARDAGE LISTING DATE 10/28/94 PAGE 45

STATION / DIST	UNCL/COM CUT AREA VOL	UNCL/COM CUT AREA ACC VOL	FILL AREA VOL	FILL AREA ACC VOL	FACT	ROCK CUT AREA VOL	ROCK CUT AREA ACC VOL	FACT	MARSH CUT AREA VOL	MARSH CUT AREA ACC VOL	MARSH BACKFILL AREA VOL	MARSH BACKFILL AREA ACC VOL	FACT	ACCUM NET
480+00			706											
100	4	381506	2017	233027	1.180					78394		78073		
		381506	2380	274965								105384		1156+
ADD VOLUME EBS														
481+00		381506		233027					925	79319	925	78998		
		381506		274965							1156	106540		
BALANCE TOTALS														
481+00		26276		17333						4445		4445		
		26276		20451								5825		
ADD VOLUME EBS														
481+00		381506		233027					982	80301	982	79980		
		381506		274965							1227	107767		1227-
481+00	2		383											
100	65	381571	1009	234036	1.180					80301		79980		
		381571	1191	276156								107767		2353-
ADD VOLUME MARSH														
482+00		381571		234036					2092	82393	2092	82072		
		381571		276156							2992	110759		5345-
482+00	33		162											
100	87	381658	465	234501	1.180					82393		82072		
		381658	549	276705								110759		5807-
483+00	14		89											
100	69	381727	661	235162	1.180					82393		82072		
		381727	780	277485								110759		6518-
484+00	23		268											
100	89	381816	907	236069	1.180					82393		82072		
		381816	1070	278555								110759		7499-
485+00	25		222											

NO CHANNEL CHANGE VOLUMES

STATE PROJECT NUMBER	SHEET NUMBER
2240-07-70	9.23

℄ TEMP. ROAD RL

R/W

85+00
765

℄ TEMP. ROAD RL

R/W PLE

84+00
760

℄ TEMP. ROAD

R/W PLE

83+00
760

℄ TEMP. ROAD

R/W PLE

82+00
760

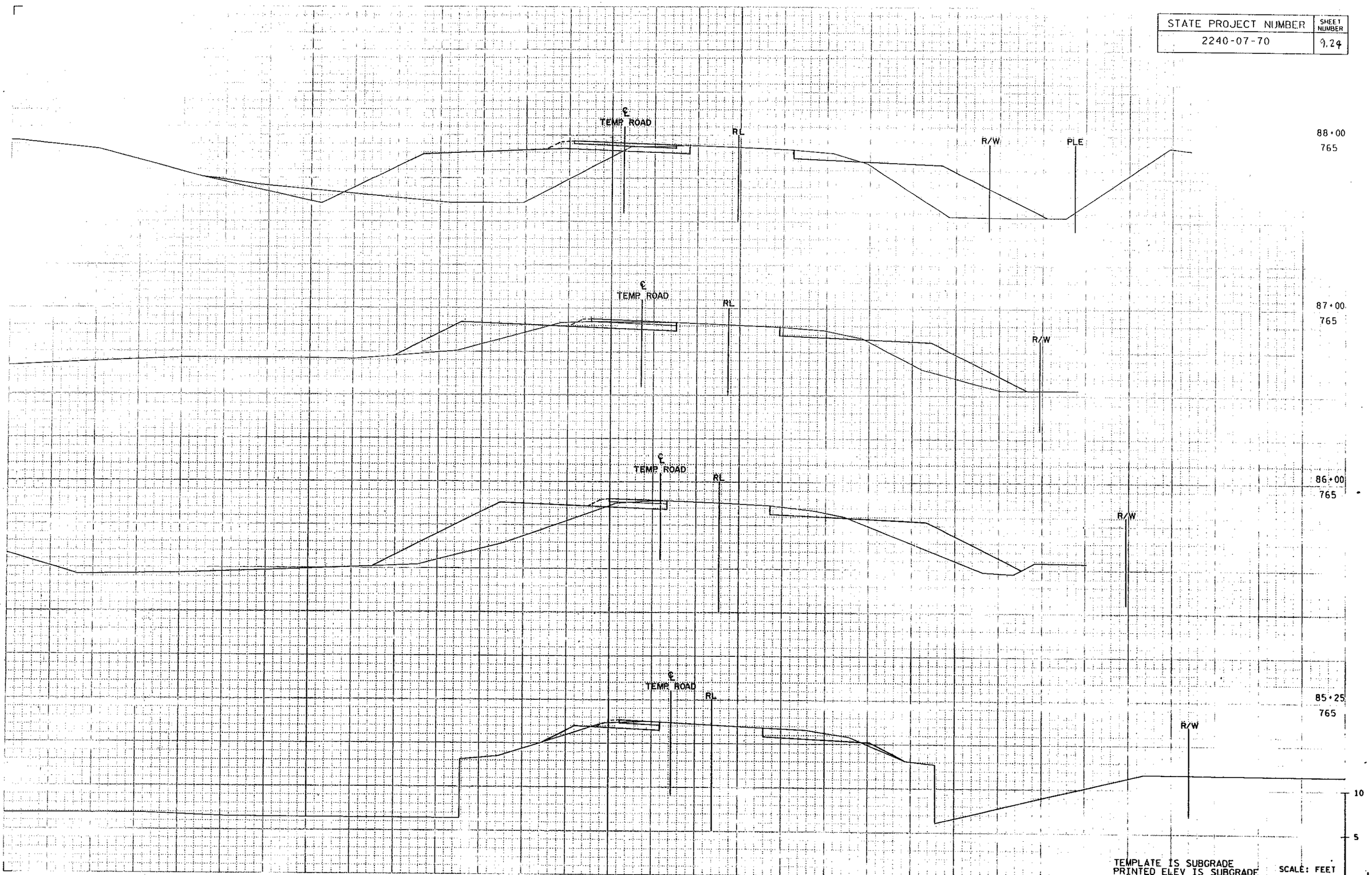
MATCH EXISTING STA. 81+50

TEMPLATE IS SUBGRADE
PRINTED ELEV IS SUBGRADE

SCALE: FEET
20 10 0

SHEET NO 1 2 2240070019

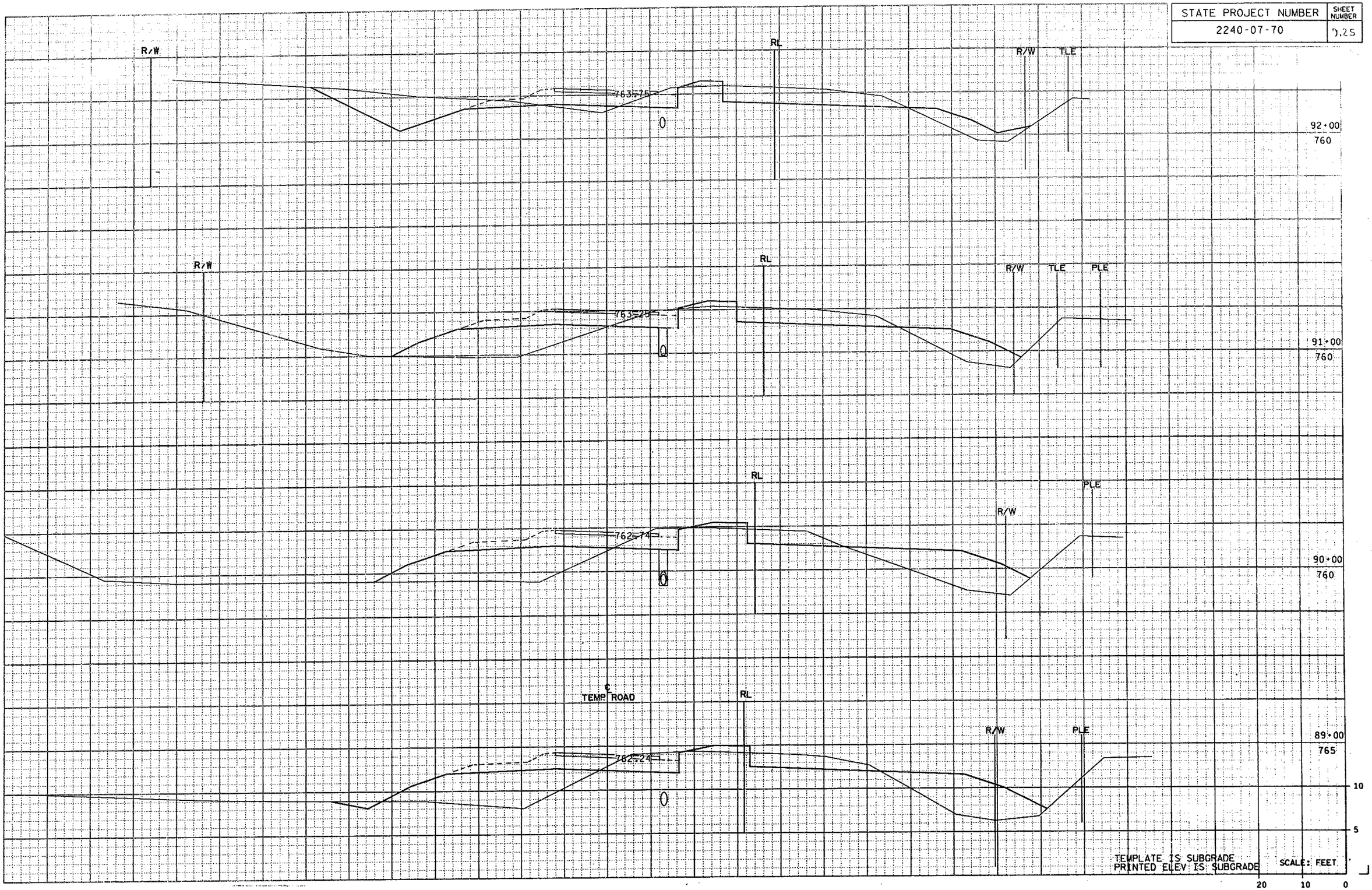
STATE PROJECT NUMBER	SHEET NUMBER
2240-07-70	9.24



SHEET NO 2 2 2240070019

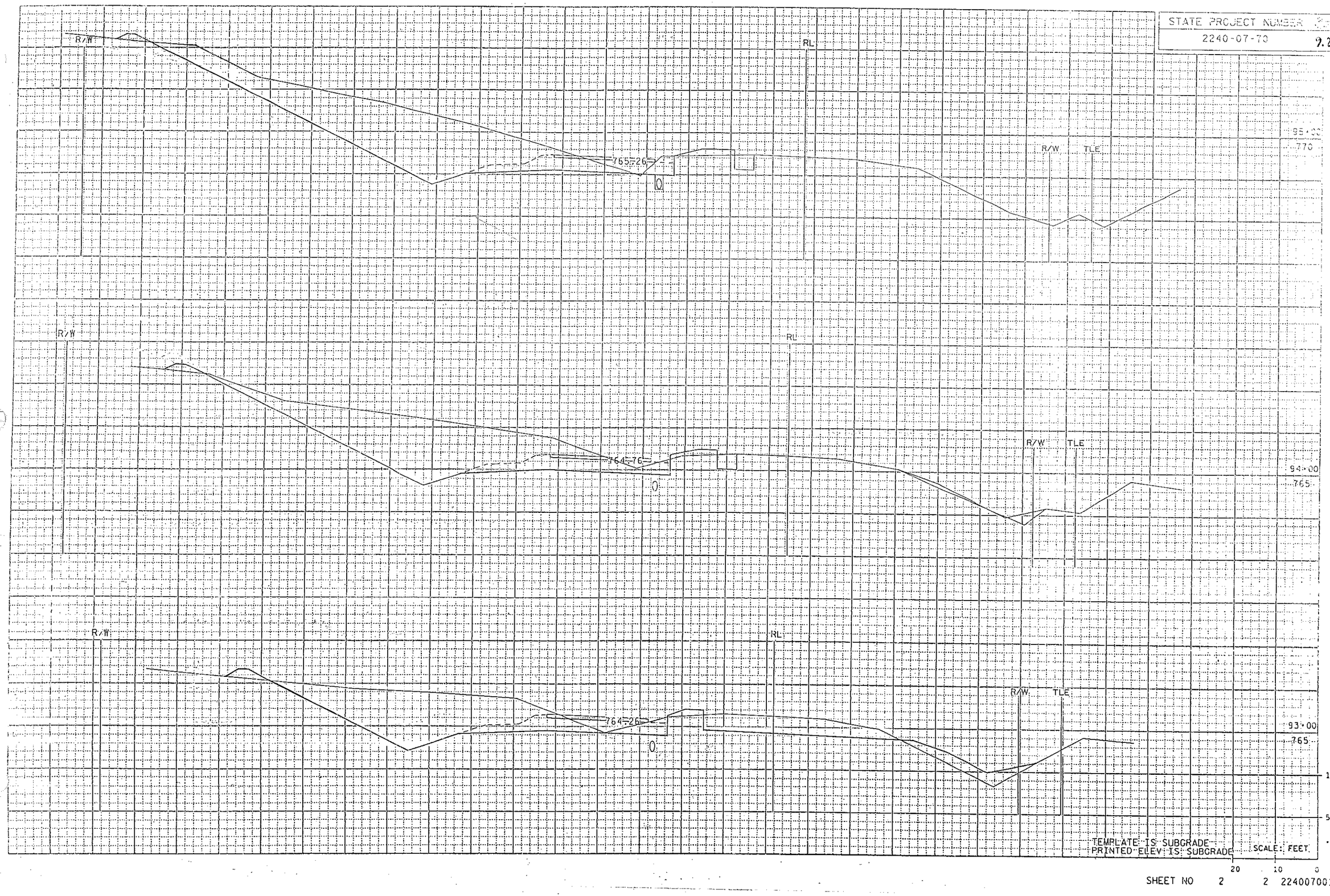
D2 2240073S1xseca.dgn Thu Aug 25 07:05:28 CDT 1994

STATE PROJECT NUMBER	SHEET NUMBER
2240-07-70	0.25



SHEET NO 1 2 2240070019

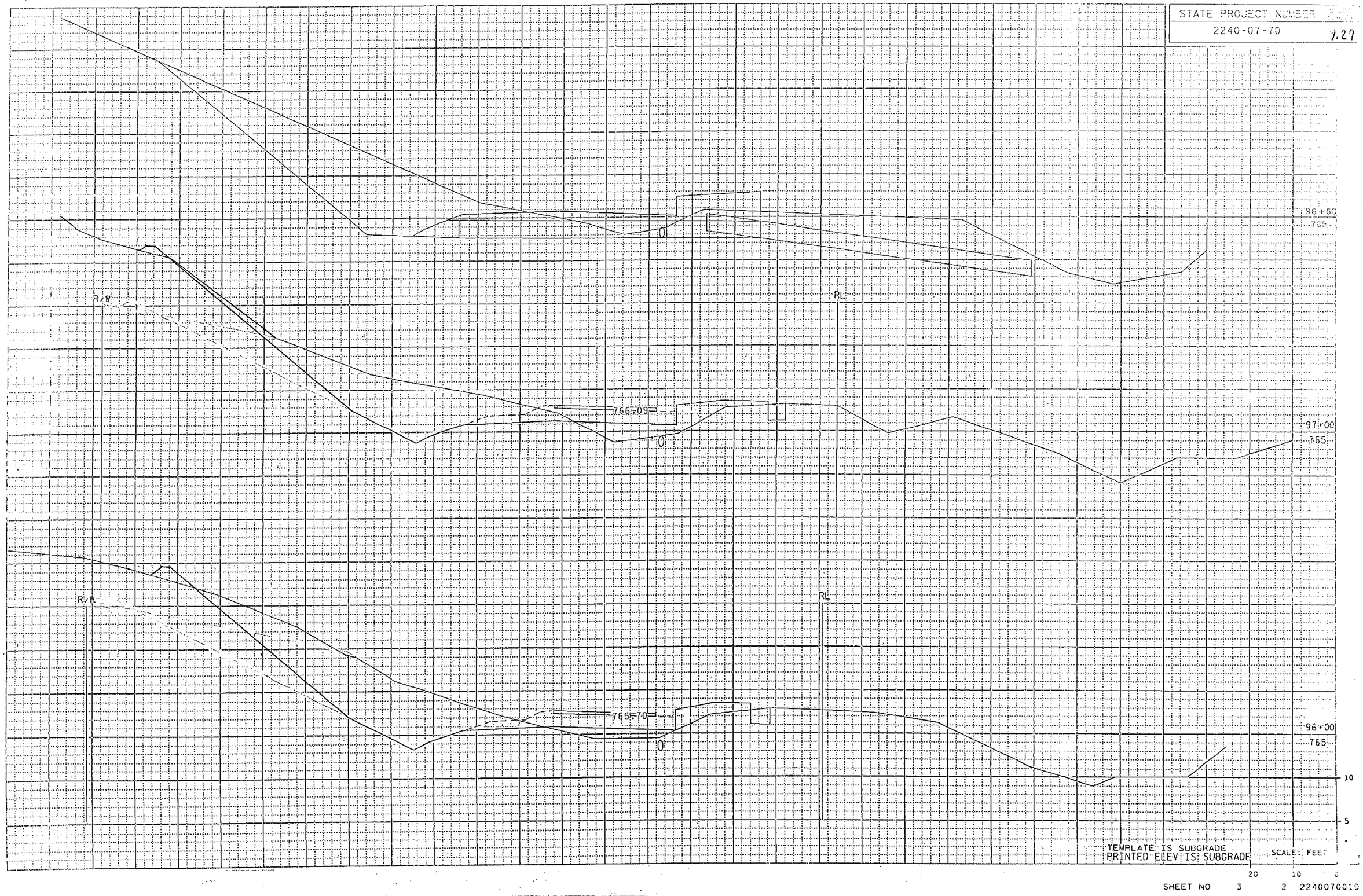
STATE PROJECT NUMBER
2240-07-70 9.26



SHEET NO 2 2 2240070019

STATE PROJECT NUMBER
2240-07-70

1.27



TEMPLATE IS SUBGRADE
PRINTED ELEV IS SUBGRADE

SCALE: FEET

STATE PROJECT NUMBER
2240-07-70 7.28

TLE

R/W

RL

99+00
770

766-69

0

TLE

R/W

RL

98+00
770

766-42

0

10

5

TEMPLATE IS SUBGRADE
PRINTED ELEV IS SUBGRADE

SCALE: FEET

20 10 0

SHEET NO 4 2 2240070019

STATE PROJECT NUMBER	SHEET NO.
2240-07-70	9.27

TLE

R/W

℄ TEMP ROAD

RL

767.06

101.00

770

TLE

R/W

RL

766.91

100.00

770

10

5

0

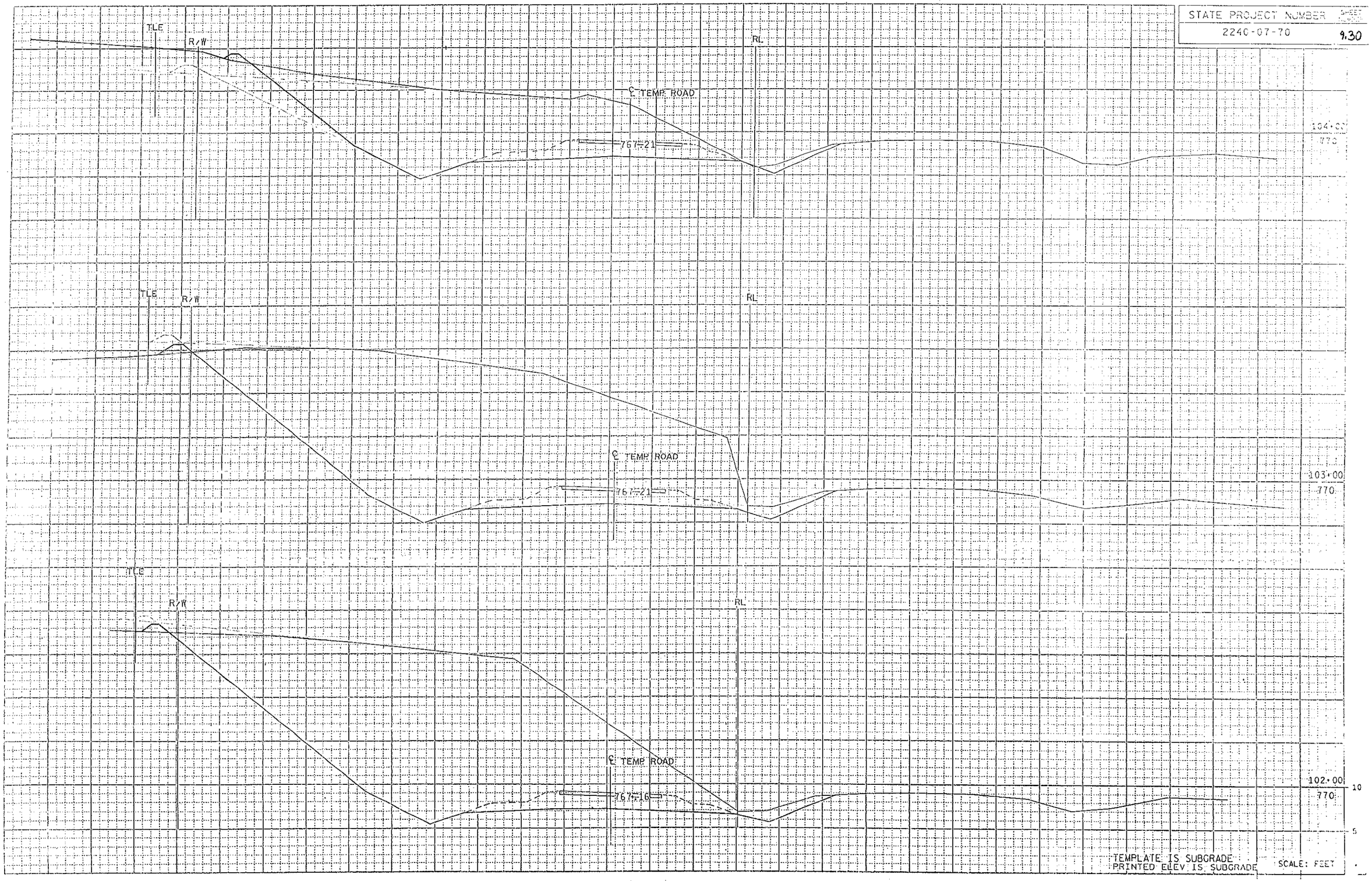
TEMPLATE IS SUBGRADE
PRINTED ELEV IS SUBGRADE

SCALE: FEET

20 10

SHEET NO 5 2 2240070019

STATE PROJECT NUMBER | SHEET NO.
2240-07-70 | 9.30



SHEET NO 6 2 2240070019

STATE PROJECT NUMBER
2240-07-70

R/W
℄ TEMP ROAD
RL
766.60
106+00
770

R/W
℄ TEMP ROAD
RL
766.84
107+00
765

R/W
℄ TEMP ROAD
RL
767.02
106+00
770

TLE
R/W
℄ TEMP ROAD
RL
767.14
105+00
770

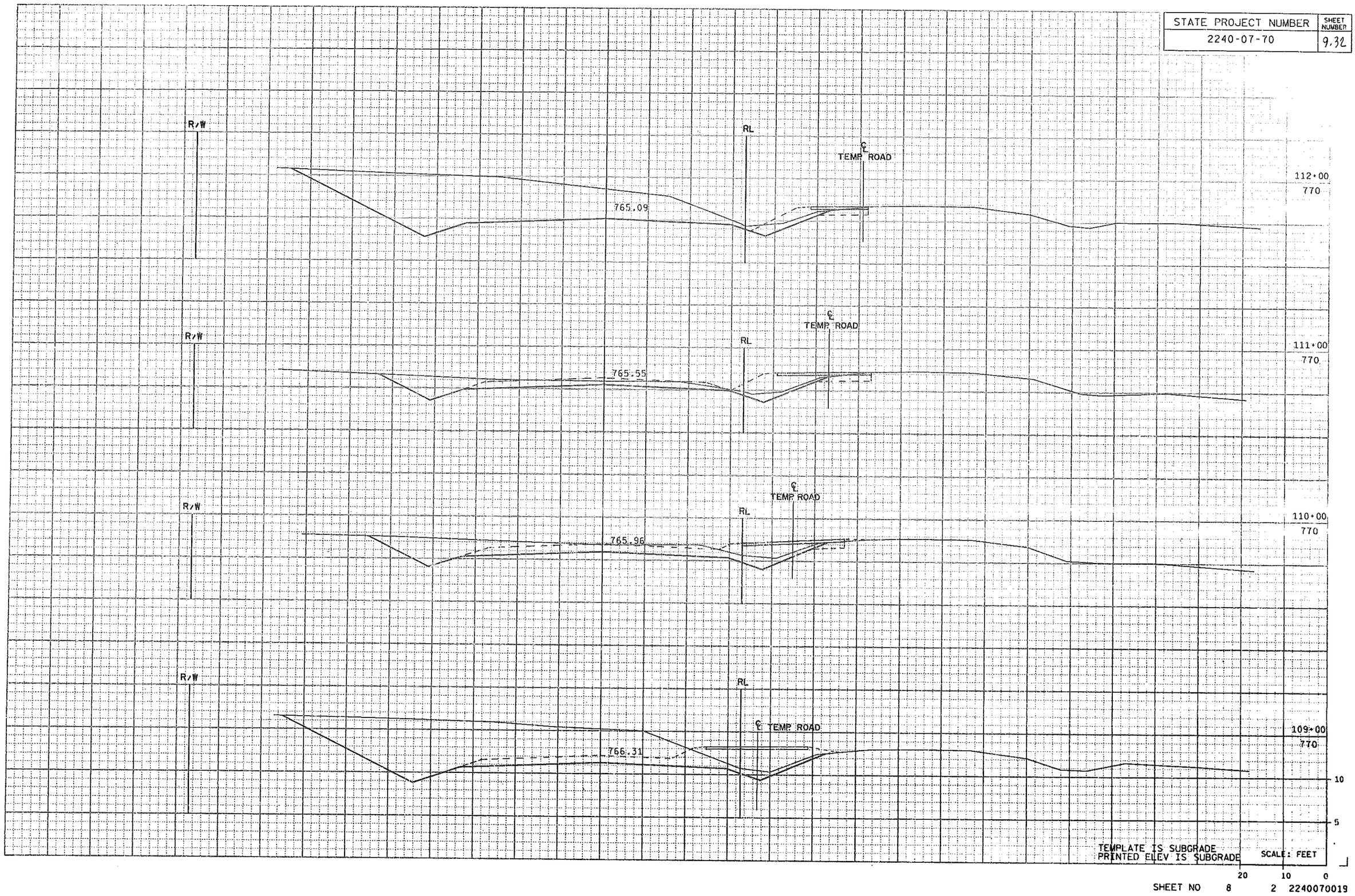
10
5

TEMPLATE IS SUBGRADE
PRINTED ELEV IS SUBGRADE
SCALE: 1"=

20 10

SHEET NO 7 2 224007

STATE PROJECT NUMBER	SHEET NUMBER
2240-07-70	9.32



SHEET NO 8 2 2240070019

D2 2240073GS:xsecm1.dgn Mon Aug 29 08:04:16 CDT 1994 m1

STATE PROJECT NUMBER	SHEET NUMBER
2240-07-70	9.33

R/W

RL

℄ TEMP ROAD

763.78

116+00
760

R/W

RL

℄ TEMP ROAD

763.94

115+00
760

R/W

RL

℄ TEMP ROAD

764.22

114+00
760

R/W

RL

℄ TEMP ROAD

764.63

113+00
765

10

5

TEMPLATE IS SUBGRADE
PRINTED ELEV IS SUBGRADE

SCALE: FEET

20 10 0

STATE PROJECT NUMBER	SHEET NUMBER
2240-07-70	9.34

R/W

RL

764.04

119+00

765

R/W

RL

763.84

118+00

765

R/W

RL

763.75

117+00

765

10

5

TEMPLATE IS SUBGRADE
PRINTED ELEV IS SUBGRADE

SCALE: FEET

20 10 0

SHEET NO 10 2 2240070019

D2 22400736S:xsecm1.dgn Mon Aug 29 08:04:16 CDT 1994

STATE PROJECT NUMBER	SHEET NUMBER
2240-07-70	9.35

R/W

RL

765.86

123+00

765

R/W

RL

765.35

122+00

770

R/W

RL

764.83

121+00

765

R/W

RL

764.38

120+00

765

10

5

TEMPLATE IS SUBGRADE
PRINTED ELEV IS SUBGRADE

SCALE: FEET

20 10 0

SHEET NO 11 2 2240070019

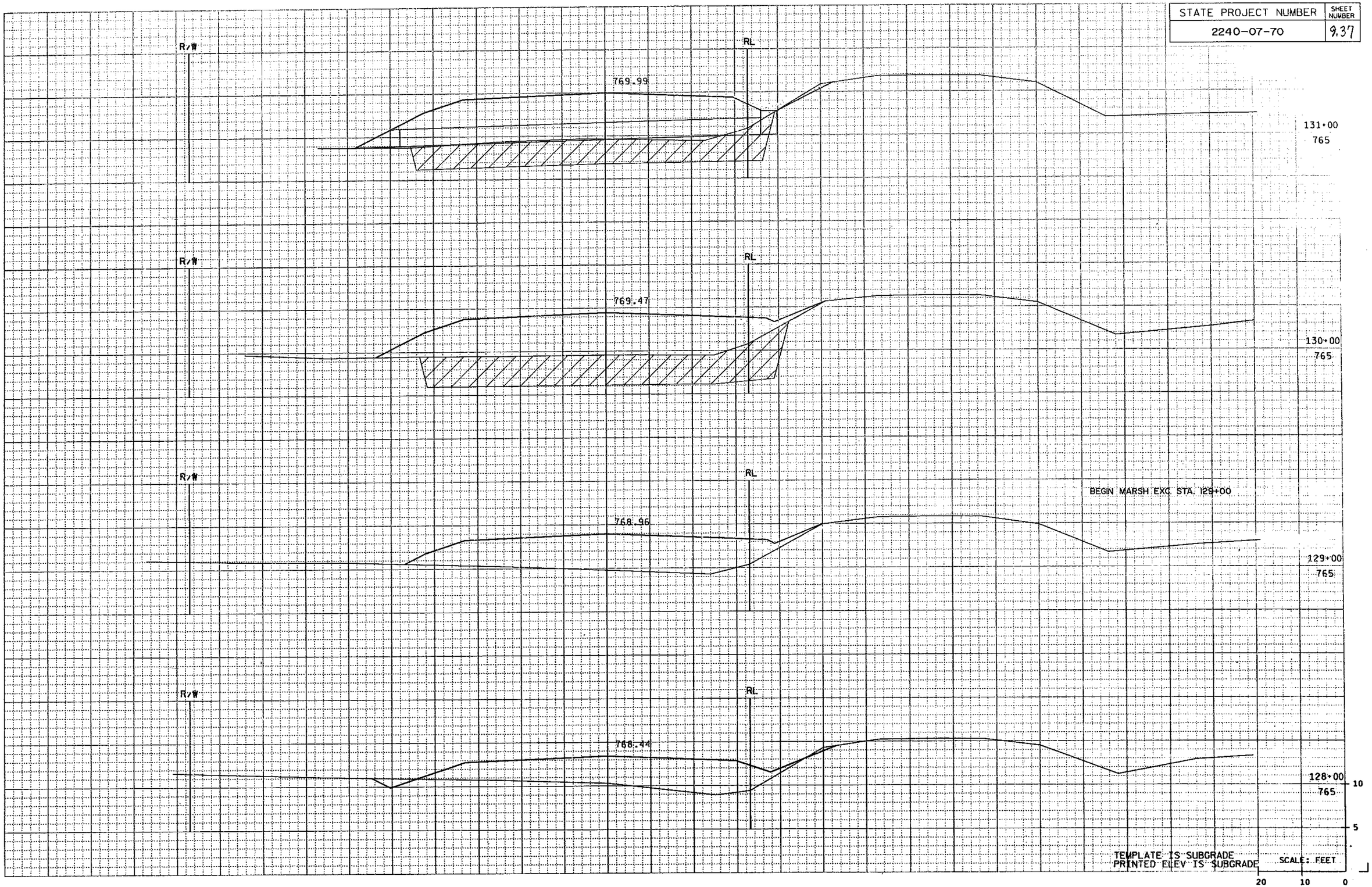
STATE PROJECT NUMBER	SHEET NUMBER
2240-07-70	9.36



SHEET NO 1 2 2240070019

D2 2240073S:xsec36a.dgn Mon Jan 9 11:50:21 CST 1995

STATE PROJECT NUMBER	SHEET NUMBER
2240-07-70	9.37



STATE PROJECT NUMBER	SHEET NUMBER
2240-07-70	9.38

R/W

RL

771.83

136+00
770

R/W

RL

771.57

135+00
770

R/W

RL

771.26

134+00
770

R/W

RL

770.90

END MARSH EXC. STA. 133+00

133+00
770

R/W

RL

770.47

132+00
770

TEMPLATE IS SUBGRADE
PRINTED ELEV IS SUBGRADE

SCALE: FEET

10 5 0 10 20

SHEET NO 14 2 2240070019

D2 2240073GS:xsecm1.dgn Mon Aug 29 08:04:16 CDT 1994 m1

STATE PROJECT NUMBER	SHEET NUMBER
2240-07-70	9.39

R/W

RL

772.16

141+00

770

BEGIN MARSH EXC. STA. 141+00

R/W

RL

772.22

140+00

770

R/W

RL

772.21

139+00

770

R/W

RL

772.14

138+00

770

R/W

RL

772.01

137+00

770

10

5

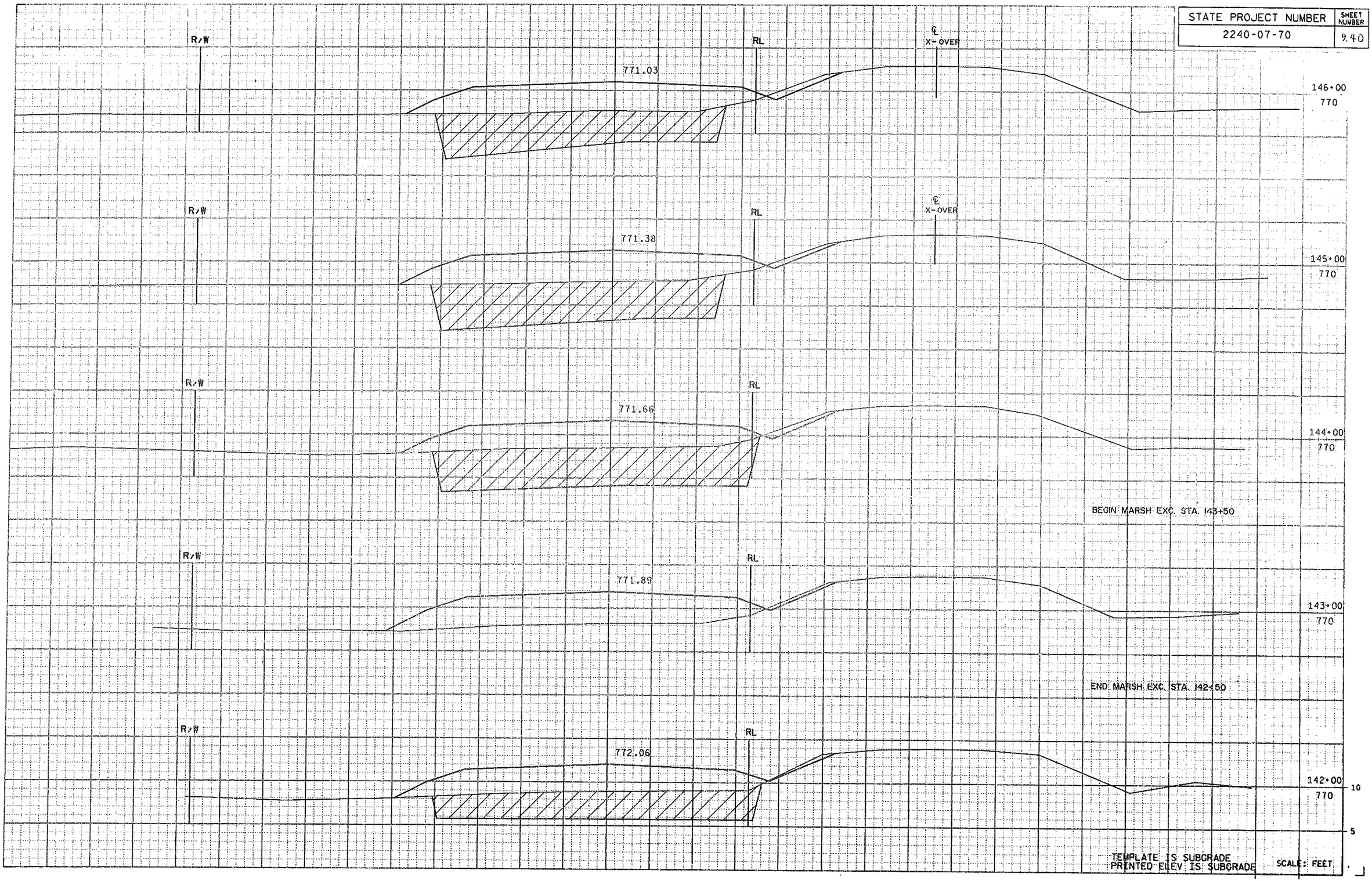
TEMPLATE IS SUBGRADE
PRINTED ELEV IS SUBGRADE

SCALE: FEET

20 10 0

SHEET NO 15 2 2240070019

STATE PROJECT NUMBER	SHEET NUMBER
2240-07-70	9.40



D2 2240073GS:xsecm1.dgn Mon Aug 29 08:04:16 CDT 199_ m1

STATE PROJECT NUMBER	SHEET NUMBER
2240-07-70	7.41

R/W

℄ X-OVER

RL

769.23

151+00
765

R/W

℄ X-OVER

RL

769.41

150+00
765

R/W

℄ X-OVER

RL

769.72

149+00
765

R/W

℄ X-OVER

RL

770.15

148+00
770

R/W

℄ X-OVER

RL

770.62

147+00
770

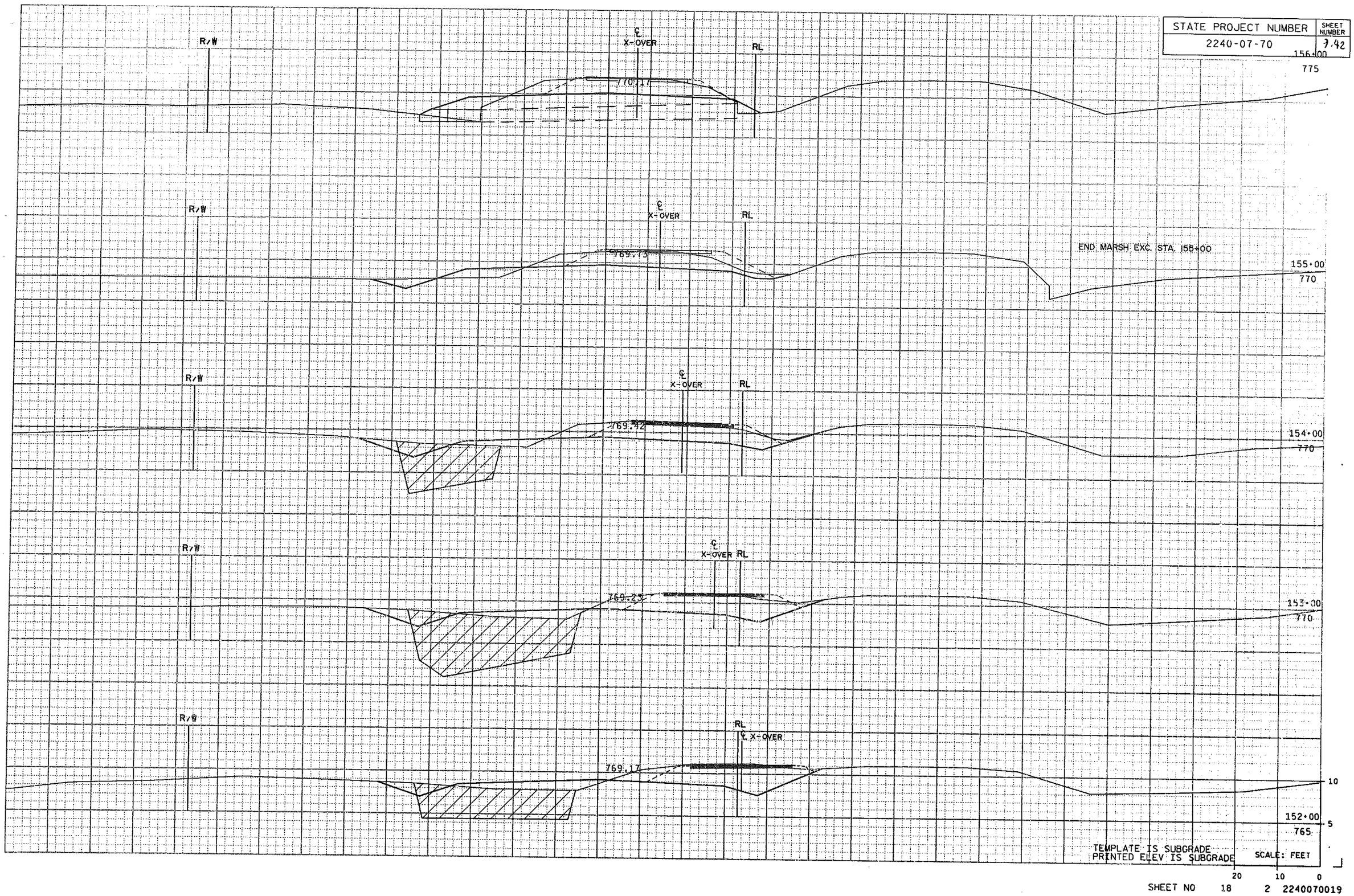
10
5

TEMPLATE IS SUBGRADE
PRINTED ELEV IS SUBGRADE

SCALE: FEET
20 10 0

SHEET NO 17 2 2240070019

STATE PROJECT NUMBER	SHEET NUMBER
2240-07-70	7.42



STATE PROJECT NUMBER	SHEET NUMBER
2240-07-70	7.43

161+00
775

R/W
772.67
RL

160+00
775

R/W
772.17
RL

159+00
775

R/W
℄ X-OVER
771.67
RL

158+00
775

R/W
℄ X-OVER
771.17
RL

157+00
775

R/W
℄ X-OVER
770.67
RL

10
5

TEMPLATE IS SUBGRADE
PRINTED ELEV IS SUBGRADE

SCALE: FEET
20 10 0

SHEET NO 19 2 2240070019

STATE PROJECT NUMBER	SHEET NUMBER
2240-07-70	7.44



STATE PROJECT NUMBER	SHEET NUMBER
2240-07-70	9.45

170+00
780

S.E.P.
RL
777.17
R/W

169+00
780

S.E.P.
RL
776.67
R/W

168+00
780

S.E.P.
RL
776.17
R/W

167+00
775

S.E.P.
RL
777.50
R/W

166+00
780

RL
777.00
R/W

10
5

TEMPLATE IS SUBGRADE
PRINTED ELEV IS SUBGRADE

SCALE: FEET
20 10 0

STATE PROJECT NUMBER	SHEET NUMBER
2240-07-70	1,46

RL S.E.P. R/W

779.16

174+00
780

RL S.E.P. R/W

778.67

END MARSH EXC. STA. 173+00

173+00
780

RL S.E.P. R/W

778.17

BEGIN MARSH EXC. STA. 171+50

172+00
780

RL S.E.P. R/W

777.67

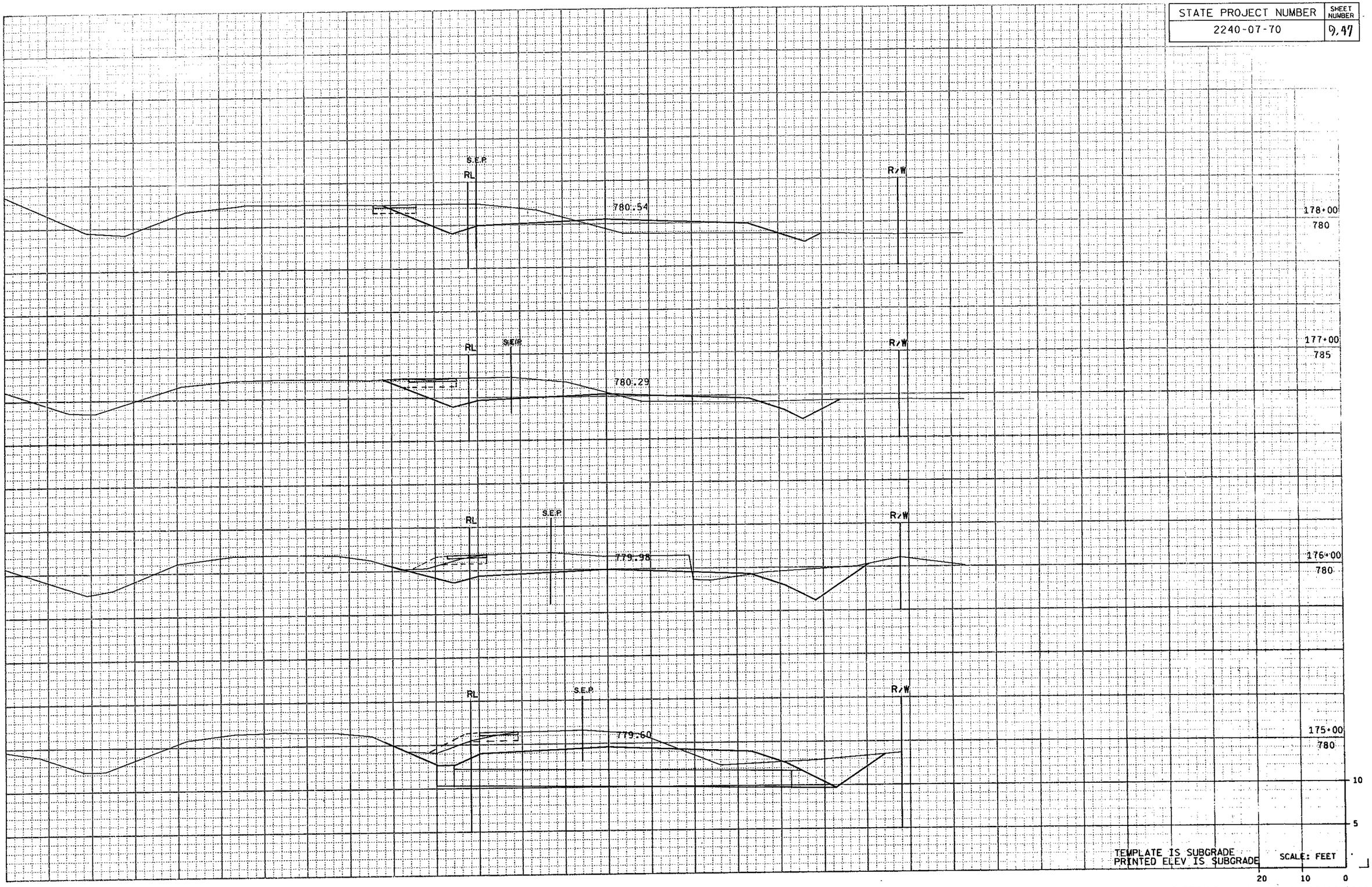
171+00
780

10
5

TEMPLATE IS SUBGRADE
PRINTED ELEV IS SUBGRADE

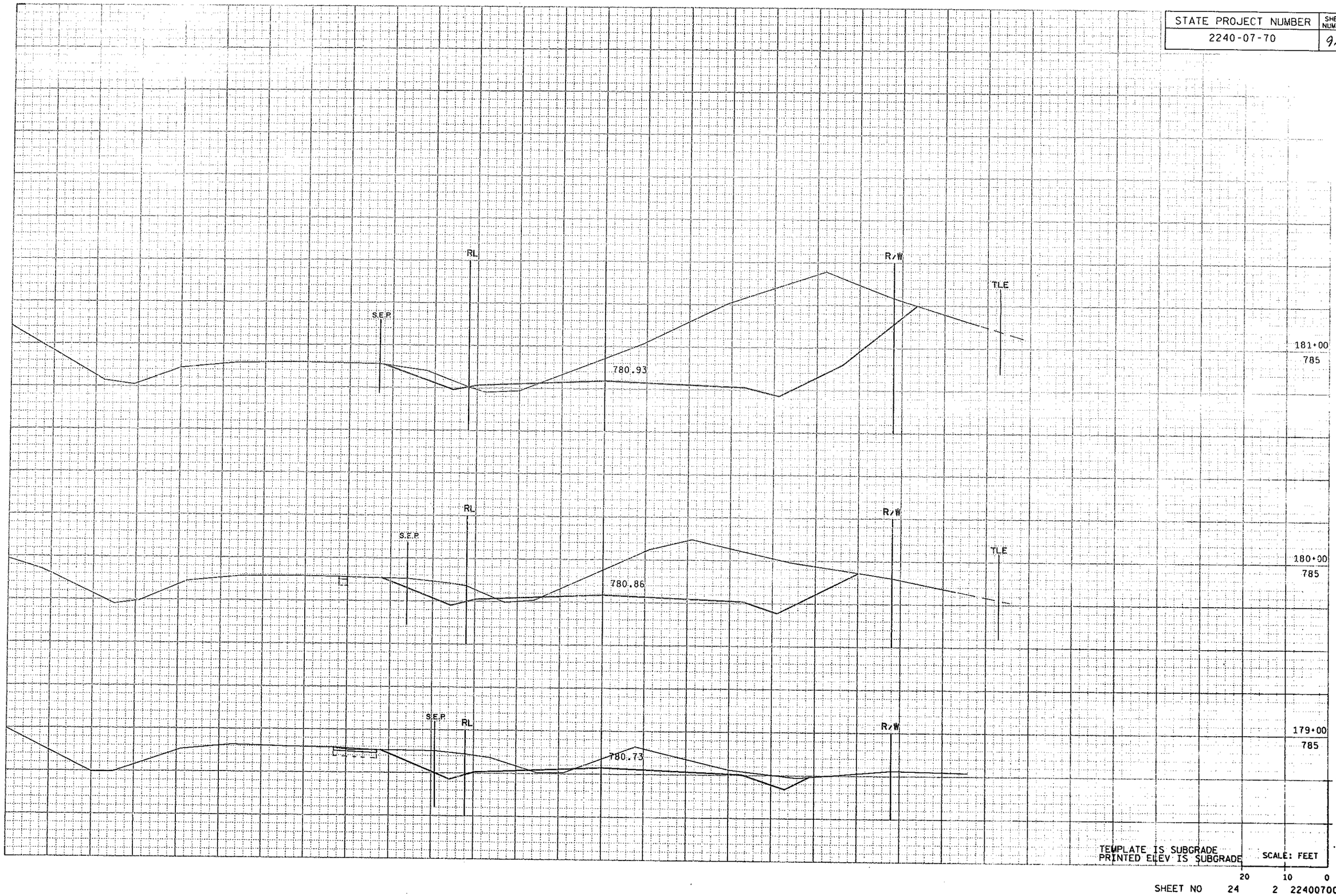
SCALE: FEET
20 10 0

STATE PROJECT NUMBER	SHEET NUMBER
2240-07-70	9,47



SHEET NO 23 2 2240070019

STATE PROJECT NUMBER	SHEET NUMBER
2240-07-70	9.48



SHEET NO 24 2 2240070019

STATE PROJECT NUMBER	SHEET NUMBER
2240-07-70	9.49

S.E.P.
RL
780.76
R/W
T.L.E.
184+00
780

S.E.P.
RL
780.88
R/W
T.L.E.
183+00
780

RL
R/W
S.E.P.
780.94
T.L.E.
182+00
785

10
5
TEMPLATE IS SUBGRADE
PRINTED ELEV IS SUBGRADE
SCALE: FEET
20 10 0

SHEET NO 25 2 2240070019

07 A:\00196S.rsecnL.dgn Mon Aug 29 09:04:15 001 1994 MI

STATE PROJECT NUMBER	SHEET NUMBER
2240-07-70	9.50

RL

R/W

TLE

780.03

187+00

785

RL

R/W

TLE

780.34

186+00

785

RL

R/W

TLE

780.58

185+00

780

TEMPLATE IS SUBGRADE
PRINTED ELEV IS SUBGRADE

SCALE: FEET

20 10 0 5 10

SHEET NO 1 2 2240070019

STATE PROJECT NUMBER	SHEET NUMBER
2240-07-70	9.51

RL

R/W

778.20

191+00
780

RL

R/W

778.75

190+00
780

RL

R/W

TLE

779.24

189+00
780

RL

R/W

TLE

779.67

188+00
780

10

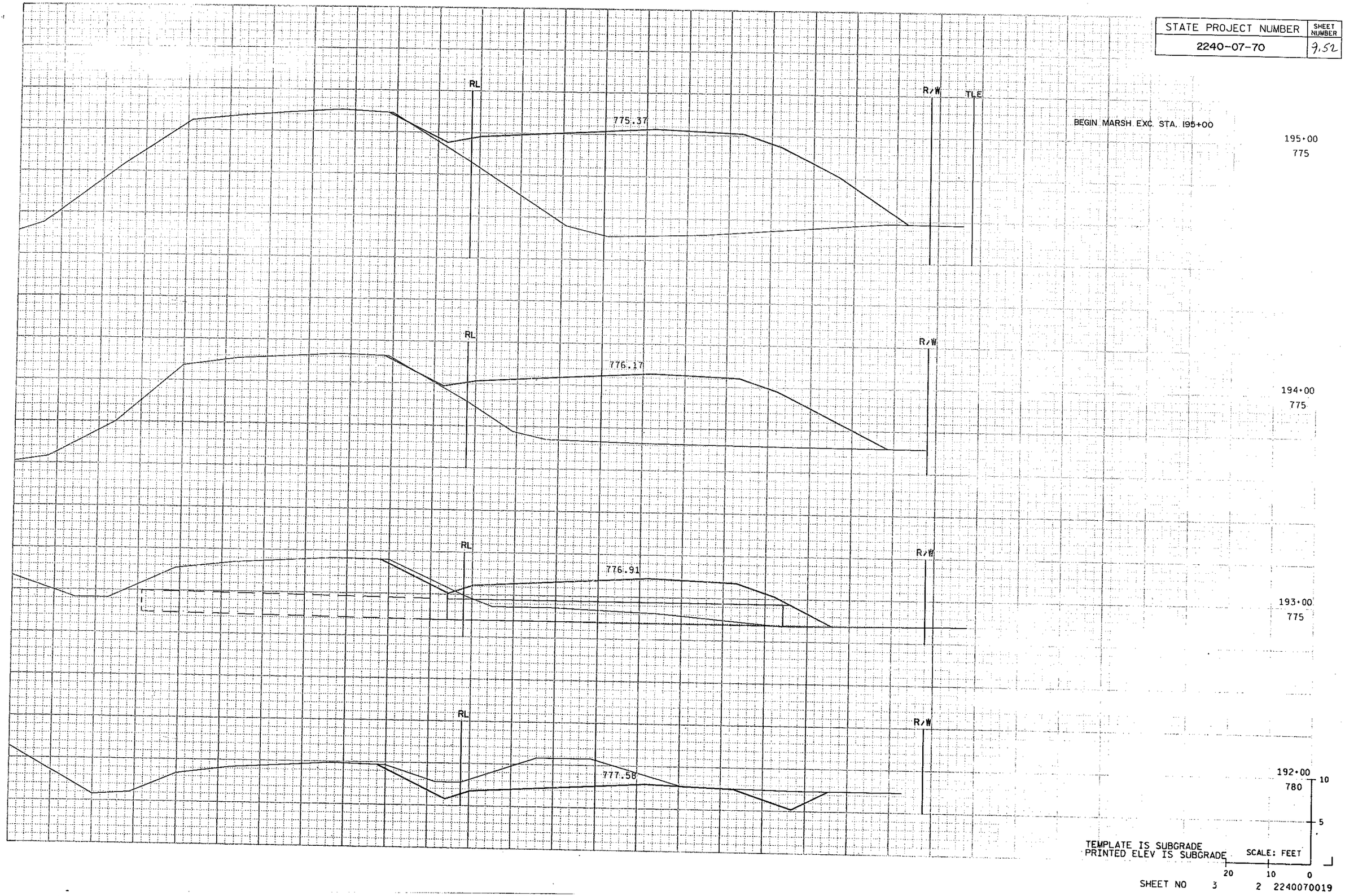
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TEMPLATE IS SUBGRADE
PRINTED ELEV IS SUBGRADE

SCALE: FEET

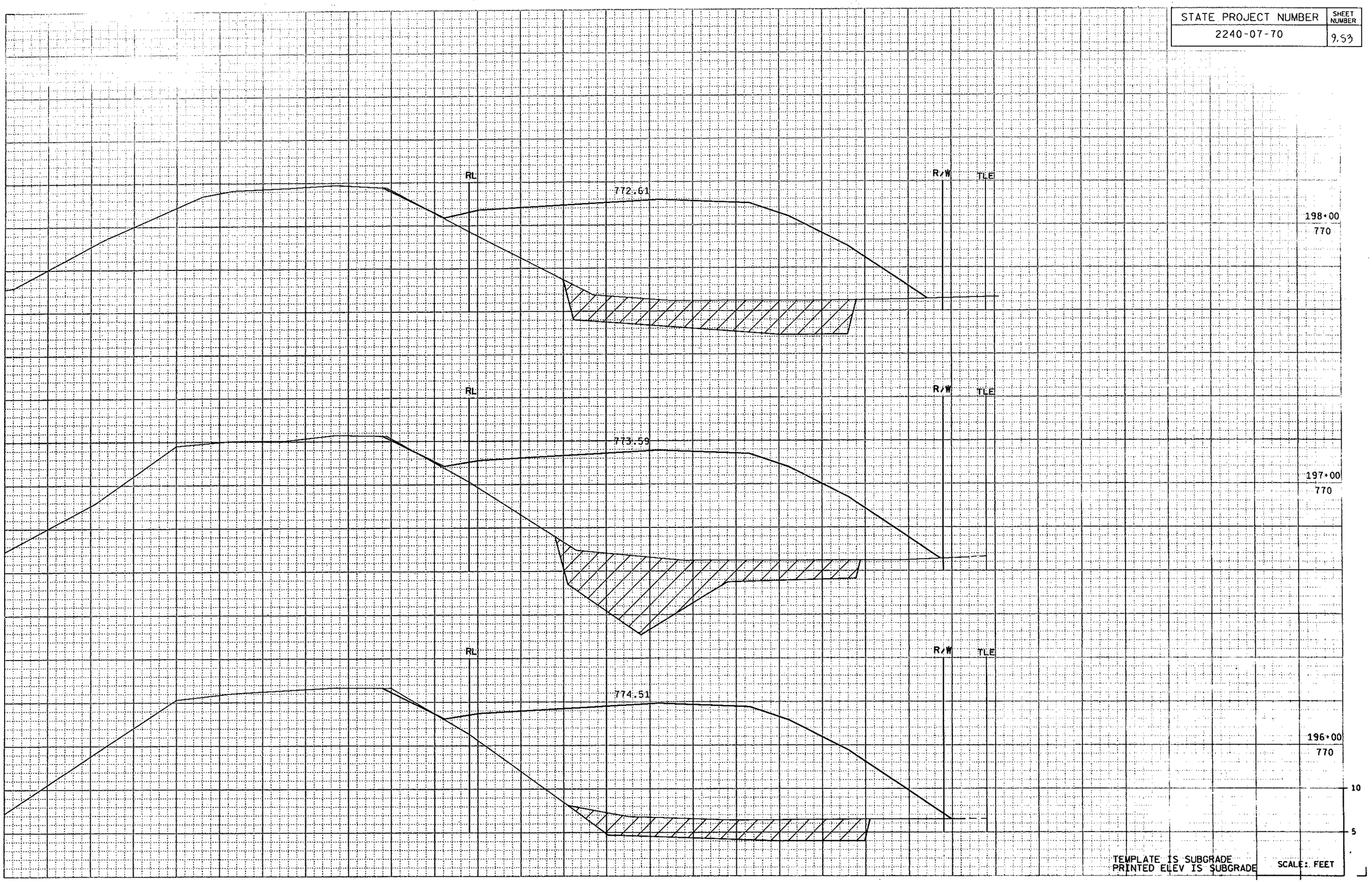
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STATE PROJECT NUMBER	SHEET NUMBER
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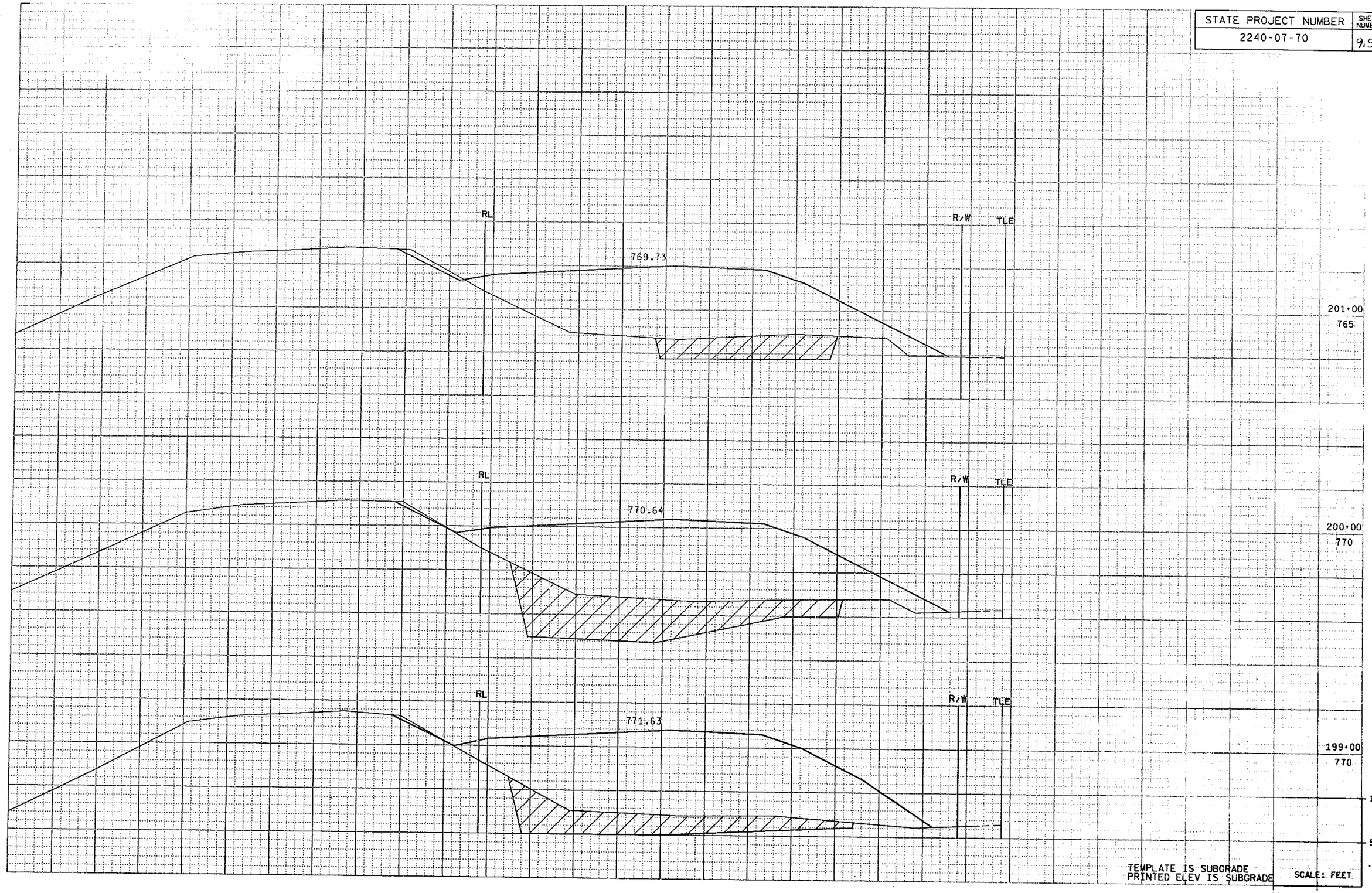


SHEET NO 3 2 2240070019

STATE PROJECT NUMBER	SHEET NUMBER
2240-07-70	9.53



STATE PROJECT NUMBER	SHEET NUMBER
2240-07-70	9.54



SHEET NO 30 2 2240070019

TU ... Aug 29 05:04:16 CDT 1994

STATE PROJECT NUMBER	SHEET NUMBER
2240-07-70	9.55

RL

768.03

R/W TLE

203+45
765

RL

768.28

R/W TLE

203+00
765

END MARSH EXC. STA. 202+50

RL

768.93

R/W TLE

202+00
765

10

5

TEMPLATE IS SUBGRADE
PRINTED ELEV IS SUBGRADE

SCALE: FEET

20 10 0

SHEET NO 31 2 2240070019

STATE PROJECT NUMBER	SHEET NUMBER
2240-07-70	9.56

RL 766.97 R/W TLE

207+00
765

RL 767.10 R/W TLE

END MARSH EXC. STA. 206+00

206+00
765

RL 767.36 R/W TLE

205+00
765

RL 767.75 R/W TLE

BEGIN MARSH EXC. STA. 204+00

204+00
765

10
5

TEMPLATE IS SUBGRADE
PRINTED ELEV IS SUBGRADE

SCALE: FEET
20 10 0

SHEET NO 32 2 2240070019

STATE PROJECT NUMBER	SHEET NUMBER
2240-07-70	9,57

RL
767.70
R/W
TLE
211+00
770

RL
767.37
R/W
TLE
210+00
765

RL
767.10
R/W
TLE
209+00
765

END MARSH EXC. STA. 208+50

RL
766.97
R/W
TLE
208+00
765

BEGIN MARSH EXC. STA. 207+50

TEMPLATE IS SUBGRADE
PRINTED ELEV IS SUBGRADE

SCALE: FEET
20 10 0
10
5

STATE PROJECT NUMBER	SHEET NUMBER
2240-07-70	9.58

RL

768.57

R/W

214·00
765

RL

768.32

R/W

213·00
765

RL

768.02

R/W

TLE

212·00
770

10

5

TEMPLATE IS SUBGRADE
PRINTED ELEV IS SUBGRADE

SCALE: FEET

20 10 0

SHEET NO 34 2 2240070019

TIME: 07:44:10 DATE: Mon, Aug 27 2007 CUT TEST

STATE PROJECT NUMBER	SHEET NUMBER
2240-07-70	9.59

RL

768.97

R/W

217+00

770

RL

768.89

R/W

216+00

765

RL

768.76

R/W

215+00

765

10

5

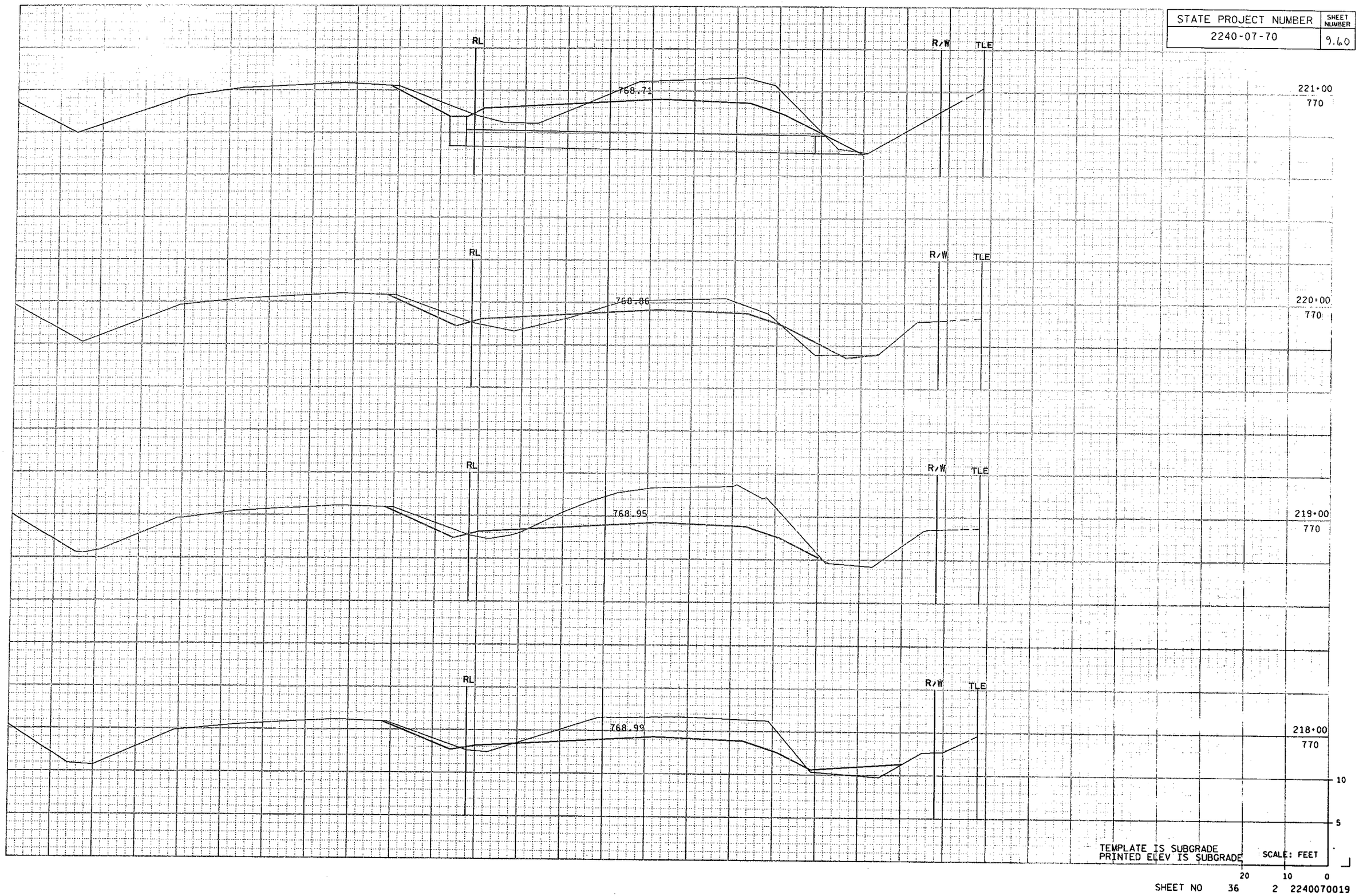
TEMPLATE IS SUBGRADE
PRINTED ELEV IS SUBGRADE

SCALE: FEET

20 10 0

SHEET NO 35 2 2240070019

STATE PROJECT NUMBER	SHEET NUMBER
2240-07-70	9.60



SHEET NO 36 2 2240070019

Tue Aug 29 08:04:16 CDT 1994 c:\projects\xsecm1.dgn

STATE PROJECT NUMBER	SHEET NUMBER
2240-07-70	9.61

RL

768.03

R/W TLE

224+00
765

RL

768.27

R/W TLE

223+00
765

RL

766.50

R/W TLE

222+00
770

10

5

TEMPLATE IS SUBGRADE
PRINTED ELEV IS SUBGRADE

SCALE: FEET

20 10 0

SHEET NO 37 2 2240070019

STATE PROJECT NUMBER	SHEET NUMBER
2240-07-70	9.62

RL
767.18
R/W
227+68
765

RL
767.34
R/W
TLE
227+00
765

RL
767.57
R/W
TLE
226+00
765

RL
767.80
R/W
TLE
225+00
765

10
5

TEMPLATE IS SUBGRADE
PRINTED ELEV IS SUBGRADE

SCALE: FEET
20 10 0

SHEET NO 1 2 2240070019

STATE PROJECT NUMBER	SHEET NUMBER
2240-07-70	9.63

RL

R/W

766.99

232+00.
770

RL

R/W

766.86

231+00
765

RL

R/W

766.83

230+40
765

10

5

TEMPLATE IS SUBGRADE
PRINTED ELEV IS SUBGRADE

SCALE: FEET

20 10 0

SHEET NO 2 2 2240070019

STATE PROJECT NUMBER	SHEET NUMBER
2240-07-70	9.64

RL

R/W

TLE

767.97

235+00
770

RL

R/W

TLE

767.54

234+00
770

RL

R/W

767.22

233+00
770

10

5

TEMPLATE IS SUBGRADE
PRINTED ELEV IS SUBGRADE

SCALE: FEET

20 10 0

SHEET NO 3 2 2240070019

D2 2240073GS:xsecy.dgn Tue Aug 30 07:42:07 CDT 1994

STATE PROJECT NUMBER	SHEET NUMBER
2240-07-70	9.65

239+00
775
R/W
RL
770.25

238+00
770
R/W
RL
769.67

237+00
770
R/W
RL
769.09

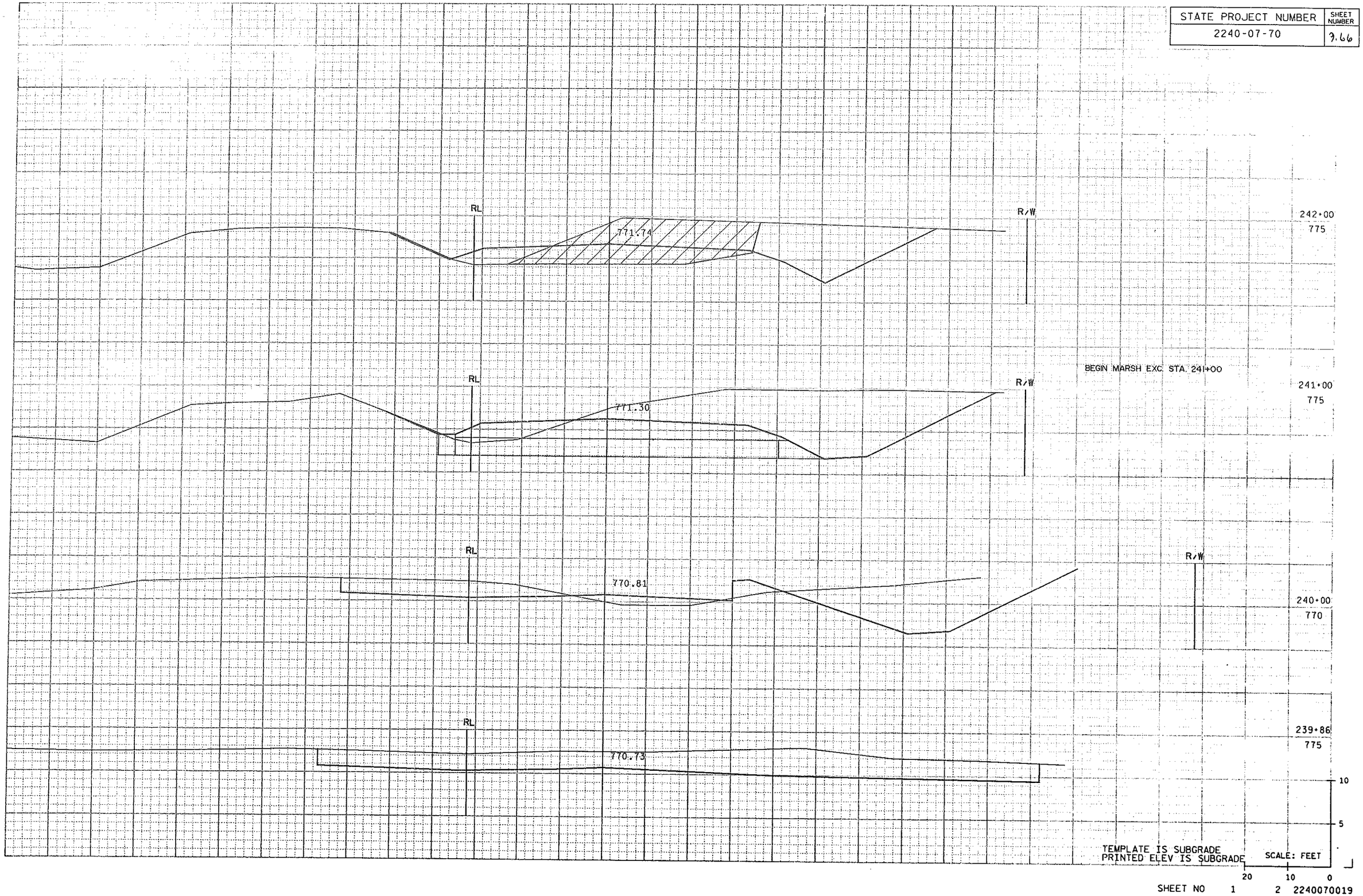
236+00
770
TLE
R/W
RL
768.50

TEMPLATE IS SUBGRADE
PRINTED ELEV IS SUBGRADE

SCALE: FEET
20 10 0
10
5

SHEET NO 4 2 2240070019

STATE PROJECT NUMBER	SHEET NUMBER
2240-07-70	9.66



SHEET NO 1 2 2240070019

STATE PROJECT NUMBER	SHEET NUMBER
2240-07-70	9,67

RL 773.05 R/W 247+00 770

RL 772.91 R/W 246+00 770

RL 772.70 R/W 245+00 775

RL 772.44 R/W 244+00 775

RL 772.12 R/W 243+00 775

END MARSH EXC. STA. 243+00

TEMPLATE IS SUBGRADE
PRINTED ELEV IS SUBGRADE

SCALE: FEET
10
5
20 10 0

SHEET NO 6 2 2240070019

STATE PROJECT NUMBER	SHEET NUMBER
2240-07-70	9.69

END MARSH EXC. STA. 256+50

RL

773.17

R/W

256+00
770

RL

773.17

R/W

255+00
770

RL

773.17

R/W

254+00
770

RL

773.17

R/W

253+00
770

TEMPLATE IS SUBGRADE
PRINTED ELEV IS SUBGRADE

SCALE: FEET

10 5 0 10 20

SHEET NO 8 2 2240070019

J2 22400736S:xsecy.dgn Tue Aug 30 07:42:07 CDT 1994

STATE PROJECT NUMBER	SHEET NUMBER
2240-07-70	9.68

BEGIN MARSH EXC. STA. 252+50

RL 773.17 R/W — 252+00 770

RL 773.17 R/W — 251+00 770

RL 773.17 R/W — 250+00 770

RL 773.17 R/W — 249+00 770

RL 773.14 R/W — 248+00 770

TEMPLATE IS SUBGRADE
PRINTED ELEV IS SUBGRADE

SCALE: FEET
20 10 0
10
5

SHEET NO 7 2 2240070019

STATE PROJECT NUMBER	SHEET NUMBER
2240-07-70	9.75

RL

R/W

773.17

259+00

775

RL

R/W

773.17

258+00

775

RL

R/W

773.17

257+00

770

10

5

TEMPLATE IS SUBGRADE
PRINTED ELEV IS SUBGRADE

SCALE: FEET

20 10 0

SHEET NO 9 2 2240070019

D2 22400736S:xsecy.dgn Tue Aug 30 07:42:07 CDT 1994

STATE PROJECT NUMBER	SHEET NUMBER
2240-07-70	9.71

RL

R/W

773.30

262+00
770

RL

R/W

773.17

261+00
770

RL

R/W

773.27

260+00
770

10

5

TEMPLATE IS SUBGRADE
PRINTED ELEV IS SUBGRADE

SCALE: FEET

20 10 0

SHEET NO 10 2 2240070019

STATE PROJECT NUMBER	SHEET NUMBER
2240-07-70	9.72

RL

775.26

R/W

265+00
780

RL

774.35

R/W

264+00
775

RL

773.69

R/W

263+00
775

TEMPLATE IS SUBGRADE
PRINTED ELEV IS SUBGRADE

SCALE: FEET

10 5 0 10 20

SHEET NO 11 2 2240070019

D2 22400736S:xsecy.dgn Tue Aug 30 07:42:07 CDT 1994

STATE PROJECT NUMBER	SHEET NUMBER
2240-07-70	1.73

RL

R/W

779.58

268+00
780

RL

R/W

777.88

267+00
780

RL

R/W

776.44

266+00
780

10

5

TEMPLATE IS SUBGRADE
PRINTED ELEV IS SUBGRADE

SCALE: FEET

20 10 0

SHEET NO 12 2 2240070019

STATE PROJECT NUMBER	SHEET NUMBER
2240-07-70	9.74

RL

786.24

R/W

271+00
785

RL

784.14

R/W

270+16
780

RL

783.76

R/W

270+00
785

RL

781.54

R/W

269+00
785

10

5

TEMPLATE IS SUBGRADE
PRINTED ELEV IS SUBGRADE

SCALE: FEET

20 10 0

SHEET NO 13 2 2240070019

Tue Aug 30 01:42:01 CDT 1994

STATE PROJECT NUMBER	SHEET NUMBER
2240-07-70	9,75

RL

R/W

796.70

275+00

795

RL

R/W

794.09

274+00

790

RL

R/W

791.47

273+00

790

RL

R/W

788.86

272+00

785

10

5

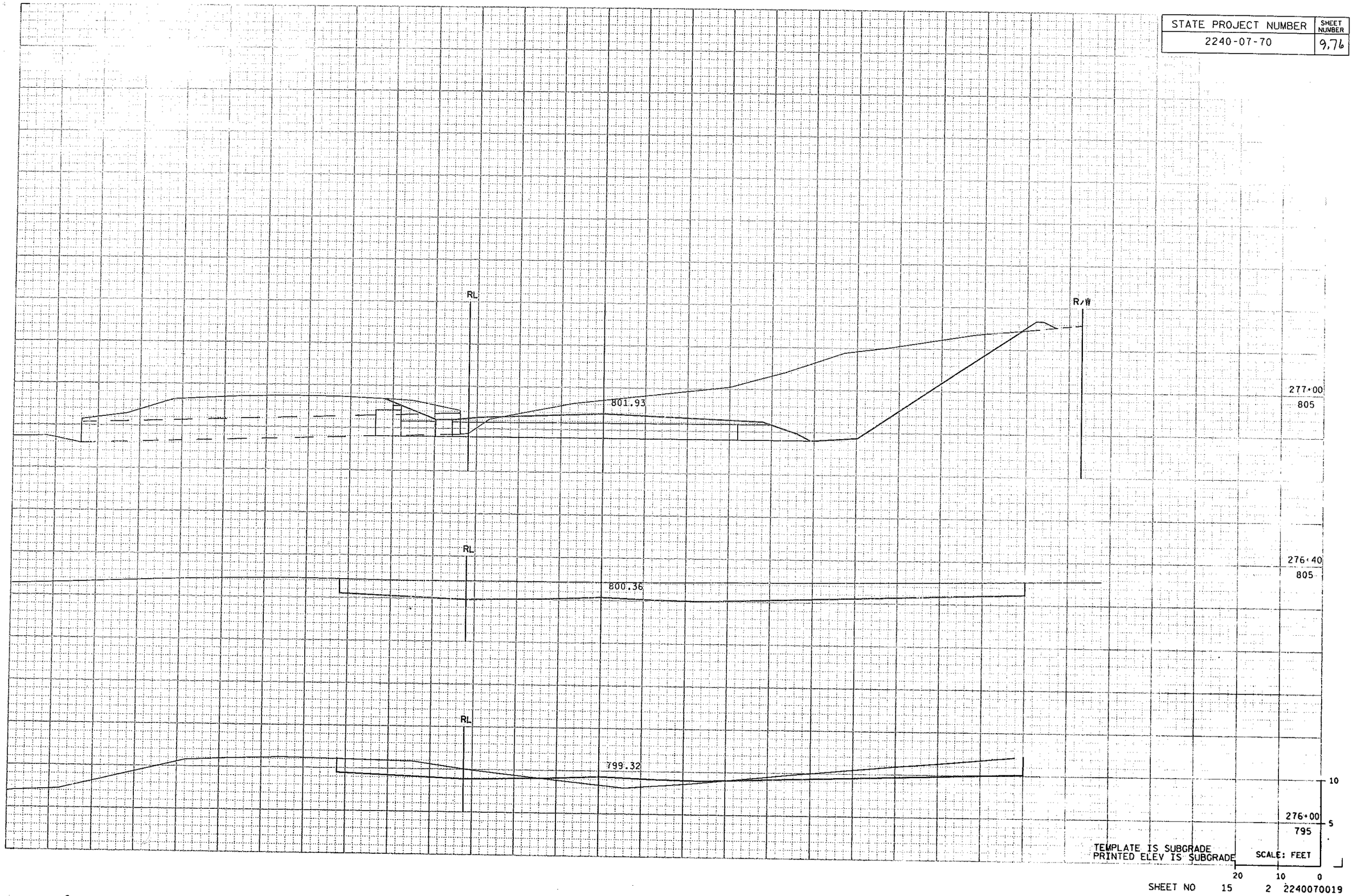
TEMPLATE IS SUBGRADE
PRINTED ELEV IS SUBGRADE

SCALE: FEET

20 10 0

SHEET NO 14 2 2240070019

STATE PROJECT NUMBER	SHEET NUMBER
2240-07-70	9,76



SHEET NO 15 2 2240070019

STATE PROJECT NUMBER	SHEET NUMBER
2240-07-70	9.77

RL

R/W

809.77

280+00

810

RL

R/W

807.16

279+00

810

RL

R/W

804.55

278+00

805

10

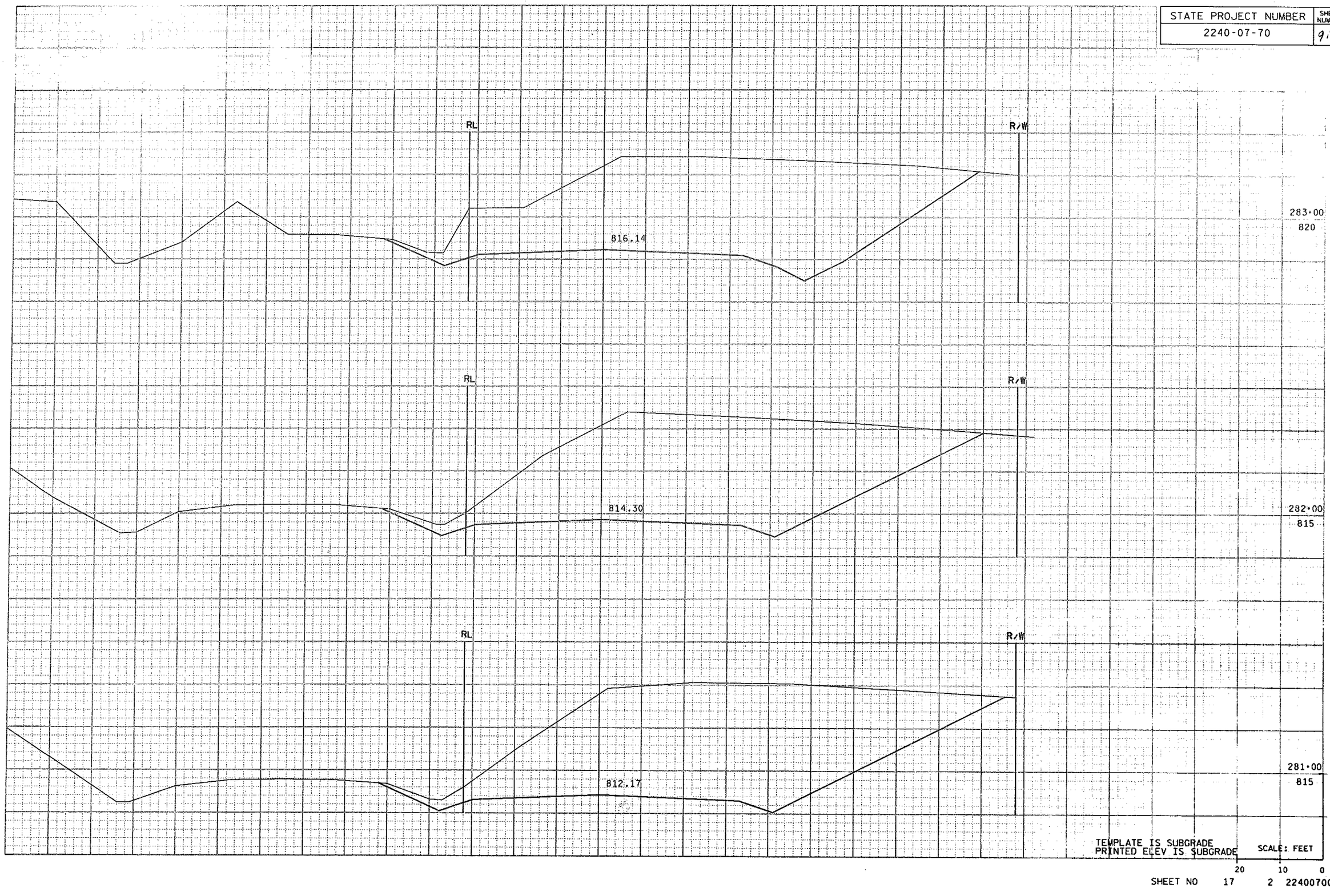
5

TEMPLATE IS SUBGRADE
PRINTED ELEV IS SUBGRADE

SCALE: FEET

20 10 0

STATE PROJECT NUMBER	SHEET NUMBER
2240-07-70	9.78



SHEET NO 17 2 2240070019

DS E:\TOOLS\XSECT.DGN Tue Aug 30 07:42:07 CDT 1994

STATE PROJECT NUMBER	SHEET NUMBER
2240-07-70	9,79

RL

820.73

R/W

287+00

820

RL

820.01

R/W

286+00

820

RL

818.99

R/W

285+00

820

RL

817.71

R/W

284+00

820

10

5

TEMPLATE IS SUBGRADE
PRINTED ELEV IS SUBGRADE

SCALE: FEET

20 10 0

SHEET NO 18 2 2240070019

STATE PROJECT NUMBER	SHEET NUMBER
2240-07-70	9 of 20

RL

820.84

R/W

291+00

825

RL

821.23

R/W

290+00

820

RL

821.34

R/W

289+00

825

RL

821.18

R/W

288+00

820

10

5

TEMPLATE IS SUBGRADE
PRINTED ELEV IS SUBGRADE

SCALE: FEET

20 10 0

SHEET NO 19 2 2240070019

D2 2240073GS:xsecy.dgn Tue Aug 30 07:42:07 CDT 1994

STATE PROJECT NUMBER	SHEET NUMBER
2240-07-70	9.81

RL

R/W

816.47

295+00
820

RL

R/W

817.98

294+00
820

RL

R/W

819.21

293+00
820

RL

R/W

820.17

292+00
825

10

5

TEMPLATE IS SUBGRADE
PRINTED ELEV IS SUBGRADE

SCALE: FEET

20 10 0

STATE PROJECT NUMBER	SHEET NUMBER
2240-07-70	1.82

RL

810.47

298+00
810

RL

812.08

297+25
815

RL

812.61

R/W

297+00
815

RL

814.67

R/W

296+00
815

10

5

TEMPLATE IS SUBGRADE
PRINTED ELEV IS SUBGRADE

SCALE: FEET

20 10 0

SHEET NO 21 2 2240070019

Tue May 30 01:47:01 CDT 1995

STATE PROJECT NUMBER	SHEET NUMBER
2240-07-70	9,83

RL

801.91

R/W

302+00

805

RL

804.05

R/W

301+00

805

RL

806.19

R/W

300+00

810

RL

808.33

R/W

299+00

810

10

5

TEMPLATE IS SUBGRADE
PRINTED ELEV IS SUBGRADE

SCALE: FEET

20 10 0

SHEET NO 22 2 2240070019

STATE PROJECT NUMBER	SHEET NUMBER
2240-07-70	9.84

RL

793.34

R/W

306+00

790

RL

795.48

R/W

305+00

800

RL

797.62

R/W

304+00

800

RL

799.77

R/W

303+00

800

TEMPLATE IS SUBGRADE
PRINTED ELEV IS SUBGRADE

SCALE: FEET

10 5 0 20 10 0

SHEET NO 23 2 2240070019

D2 2240070365:xsecy.dgn Tue Aug 30 07:42:07 CDT 1994

STATE PROJECT NUMBER	SHEET NUMBER
2240-07-70	9.85

RL

784.89

R/W

310+00

780

RL

786.92

R/W

309+00

785

RL

789.06

R/W

308+00

785

RL

791.20

R/W

307+00

790

10

5

TEMPLATE IS SUBGRADE
PRINTED ELEV IS SUBGRADE

SCALE: FEET

20 10 0

SHEET NO 24 2 2240070019

STATE PROJECT NUMBER	SHEET NUMBER
2240-07-70	9.86

RL

778.86

R/W

BEGIN MARSH EXC. STA. 314+00

314·00
775

RL

780.04

R/W

313·00
780

RL

781.44

R/W

312·00
780

RL

783.06

R/W

311·00
780

10

5

0

TEMPLATE IS SUBGRADE
PRINTED ELEV IS SUBGRADE

SCALE: FEET

20 10 0

SHEET NO 25 2 2240070019

STATE PROJECT NUMBER	SHEET NUMBER
2240-07-70	3.87

RL

776.57

R/W

317+00
775

RL

777.12

R/W

316+00
775

RL

777.88

R/W

315+00
775

10
5

TEMPLATE IS SUBGRADE
PRINTED ELEV IS SUBGRADE

SCALE: FEET
20 10 0

SHEET NO 26 2 2240070019

STATE PROJECT NUMBER	SHEET NUMBER
2240-07-70	9.88

END MARSH EXC. STA. 320+50

RL

776.17

R/W

320+00

775

RL

776.09

R/W

319+00

775

RL

776.23

R/W

318+00

775

10

5

TEMPLATE IS SUBGRADE
PRINTED ELEV IS SUBGRADE

SCALE: FEET

20 10 0

SHEET NO 27 2 2240070019

D2 2240736S:xsecy.dgn Tue Aug 30 07:42:07 CDT 1994

STATE PROJECT NUMBER	SHEET NUMBER
2240-07-70	9.89

RL

777.27

R/W

323+00

775

BEGIN MARSH EXC. STA. 322+50

RL

776.87

R/W

322+00

775

10

5

TEMPLATE IS SUBGRADE
PRINTED ELEV IS SUBGRADE

SCALE: FEET

20 10 0

SHEET NO 1 2 2240070019

STATE PROJECT NUMBER	SHEET NUMBER
2240-07-70	9.90

END MARSH EXC. STA. 326+50

RL

R/W

778.47

326+00

775

RL

R/W

778.07

325+00

775

RL

R/W

777.67

324+00

775

10

5

TEMPLATE IS SUBGRADE
PRINTED ELEV IS SUBGRADE

SCALE: FEET

20

SHEET NO

D2 22400736S:xsecy.dgn Tue Aug 30 07:42:07 CDT 1994

STATE PROJECT NUMBER	SHEET NUMBER
2240-07-70	9.91

RL

779.67

R/W

329+00
775

RL

779.27

R/W

328+00
775

RL

778.87

R/W

327+00
775

10

5

TEMPLATE IS SUBGRADE
PRINTED ELEV IS SUBGRADE

SCALE: FEET

20 10 0

SHEET NO 30 2 2240070019

STATE PROJECT NUMBER	SHEET NUMBER
2240-07-70	9.92

RL

780.70

R/W

332+00

780

RL

780.41

R/W

331+00

780

RL

780.06

R/W

330+00

780

10

5

TEMPLATE IS SUBGRADE
PRINTED ELEV IS SUBGRADE

SCALE: FEET

20 10 0

SHEET NO 31 2 2240070019

STATE PROJECT NUMBER	SHEET NUMBER
2240-07-70	9.93

RL

R/W

335+00

785

781.25

RL

R/W

334+00

785

781.12

RL

R/W

333+00

785

780.94

10

5

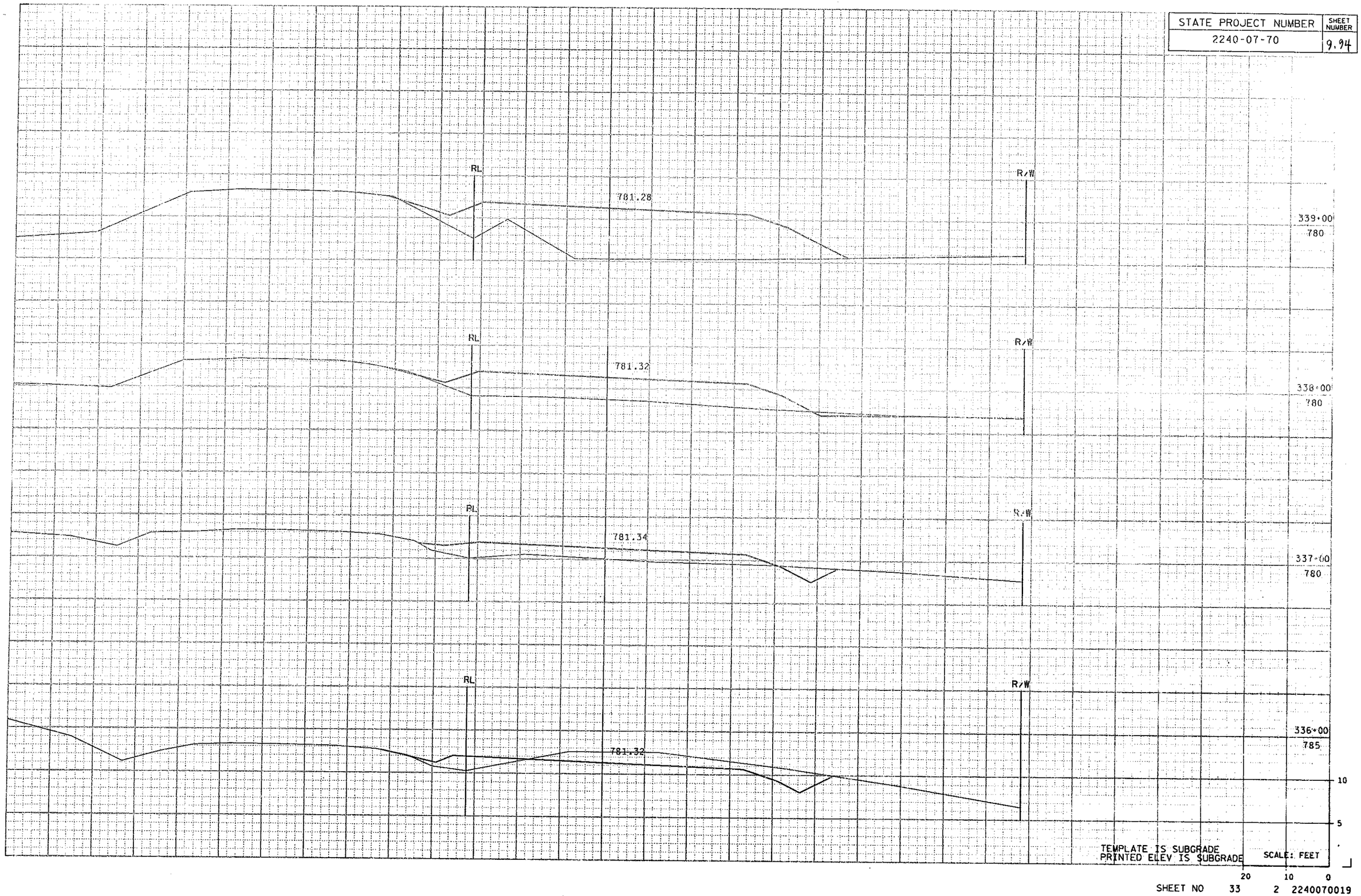
TEMPLATE IS SUBGRADE
PRINTED ELEV IS SUBGRADE

SCALE: FEET

20 10 0

SHEET NO 32 2 2240070019

STATE PROJECT NUMBER	SHEET NUMBER
2240-07-70	9.94



SHEET NO 33 2 2240070019

Tue Aug 30 07:42:01 CDT 1994

STATE PROJECT NUMBER	SHEET NUMBER
2240-07-70	1.95

RL

781.18

R/W

342+00
780

RL

781.21

R/W

341+00
780

RL

781.21

R/W

~~340+95~~
~~780~~

RL

781.25

R/W

340+00
780

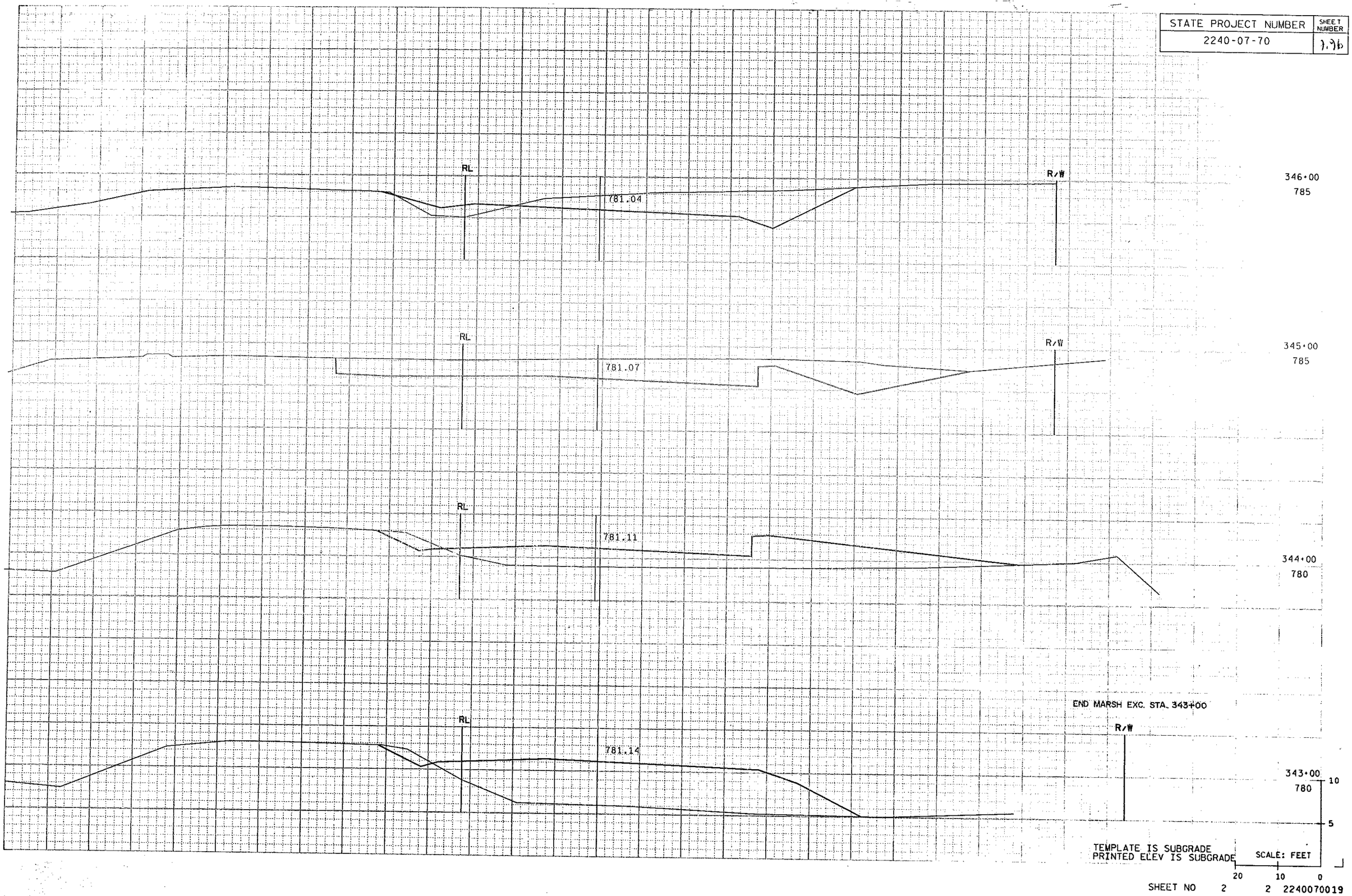
BEGIN MARSH EXC. STA. 339+50

TEMPLATE IS SUBGRADE
PRINTED ELEV IS SUBGRADE

SCALE: FEET
20 10 0 5 10

SHEET NO 1 2 2240070019

STATE PROJECT NUMBER	SHEET NUMBER
2240-07-70	1.76



D2 2240736S:xsecu.dgn Thu Sep 22 09:17:53 CDT 1994

STATE PROJECT NUMBER	SHEET NUMBER
2240-07-70	9,97

RL

R/W

780.90

350+00

785

RL

R/W

780.94

349+00

785

RL

R/W

780.97

348+00

785

RL

R/W

781.01

347+00

785

10

5

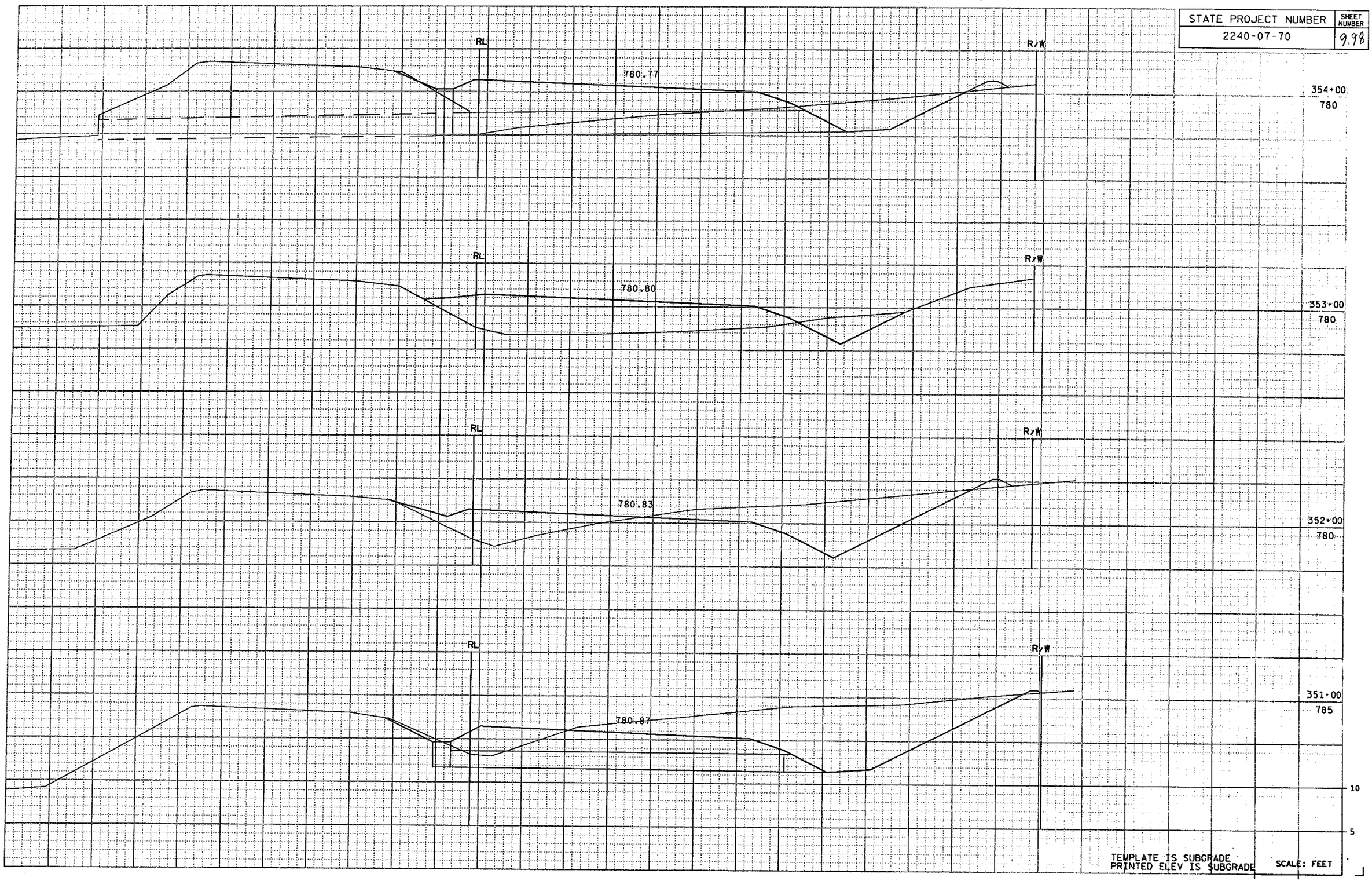
TEMPLATE IS SUBGRADE
PRINTED ELEV IS SUBGRADE

SCALE: FEET

20 10 0

SHEET NO 36 2 2240070019

STATE PROJECT NUMBER	SHEET NUMBER
2240-07-70	9.98



D2 2240073GS:xsecy.dgn Tue Aug 30 07:42:07 CDT 1994

STATE PROJECT NUMBER	SHEET NUMBER
2240-07-70	9.97

RL

R/W

780.66

357+00

785

RL

R/W

780.70

356+00

785

RL

R/W

780.73

355+00

785

10

5

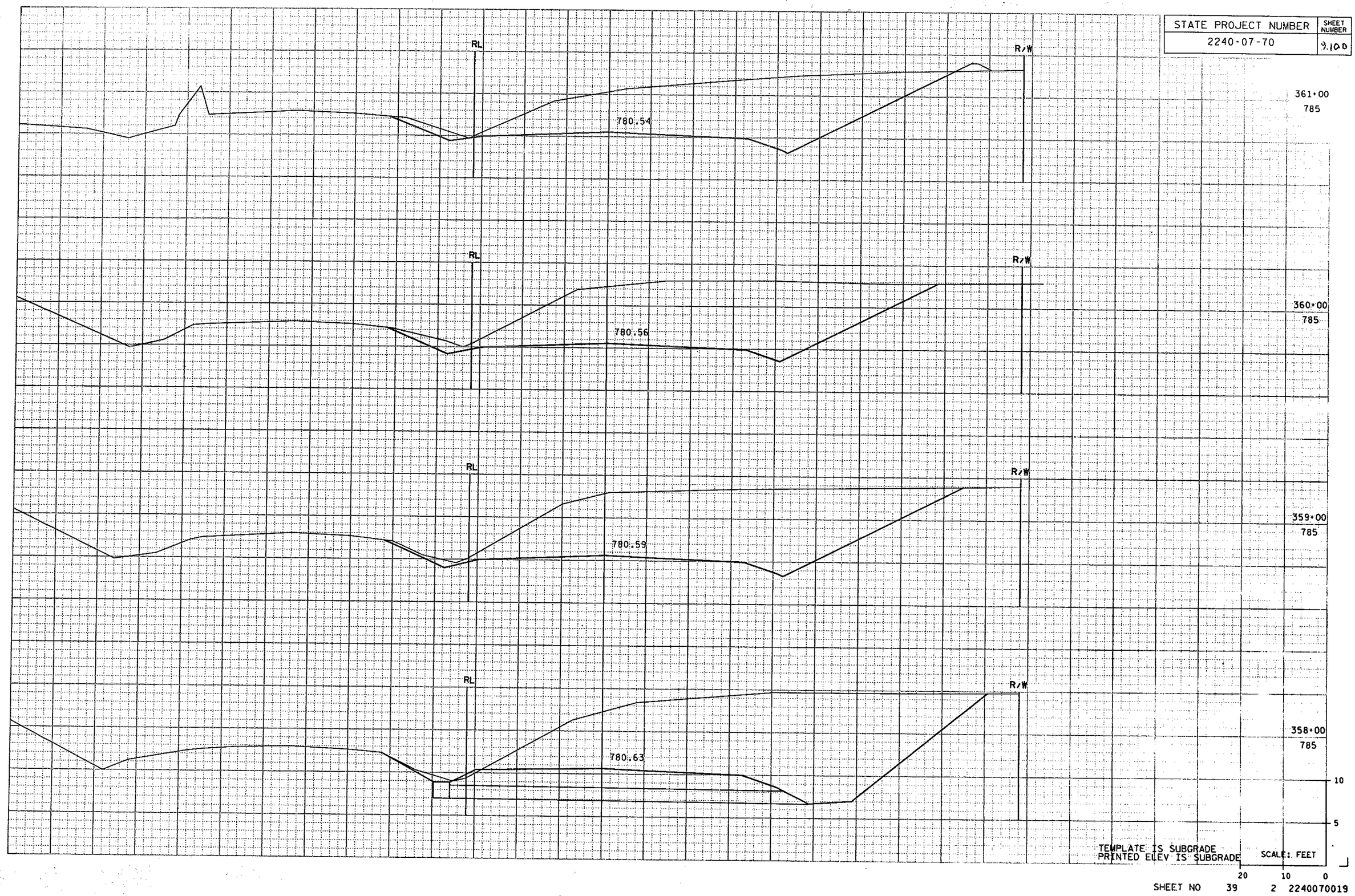
TEMPLATE IS SUBGRADE
PRINTED ELEV IS SUBGRADE

SCALE: FEET

20 10 0

SHEET NO 38 2 2240070019

STATE PROJECT NUMBER	SHEET NUMBER
2240-07-70	9.100



DZ 2240736S:xsecy.dgn Tue Aug 30 07:42:07 CDT 1994

STATE PROJECT NUMBER	SHEET NUMBER
2240-07-70	9.101

RL

781.35

R/W

365+00

785

RL

781.00

R/W

364+00

780

RL

780.76

R/W

363+00

780

RL

780.60

R/W

362+00

785

10

5

TEMPLATE IS SUBGRADE
PRINTED ELEV IS SUBGRADE

SCALE: FEET

20 10 0

SHEET NO 40 2 2240070019

STATE PROJECT NUMBER	SHEET NUMBER
2240-07-70	7,102

RL

R/W

782.84

368+00

785

RL

R/W

782.31

367+00

785

RL

R/W

781.78

366+00

785

10

5

TEMPLATE IS SUBGRADE
PRINTED ELEV IS SUBGRADE

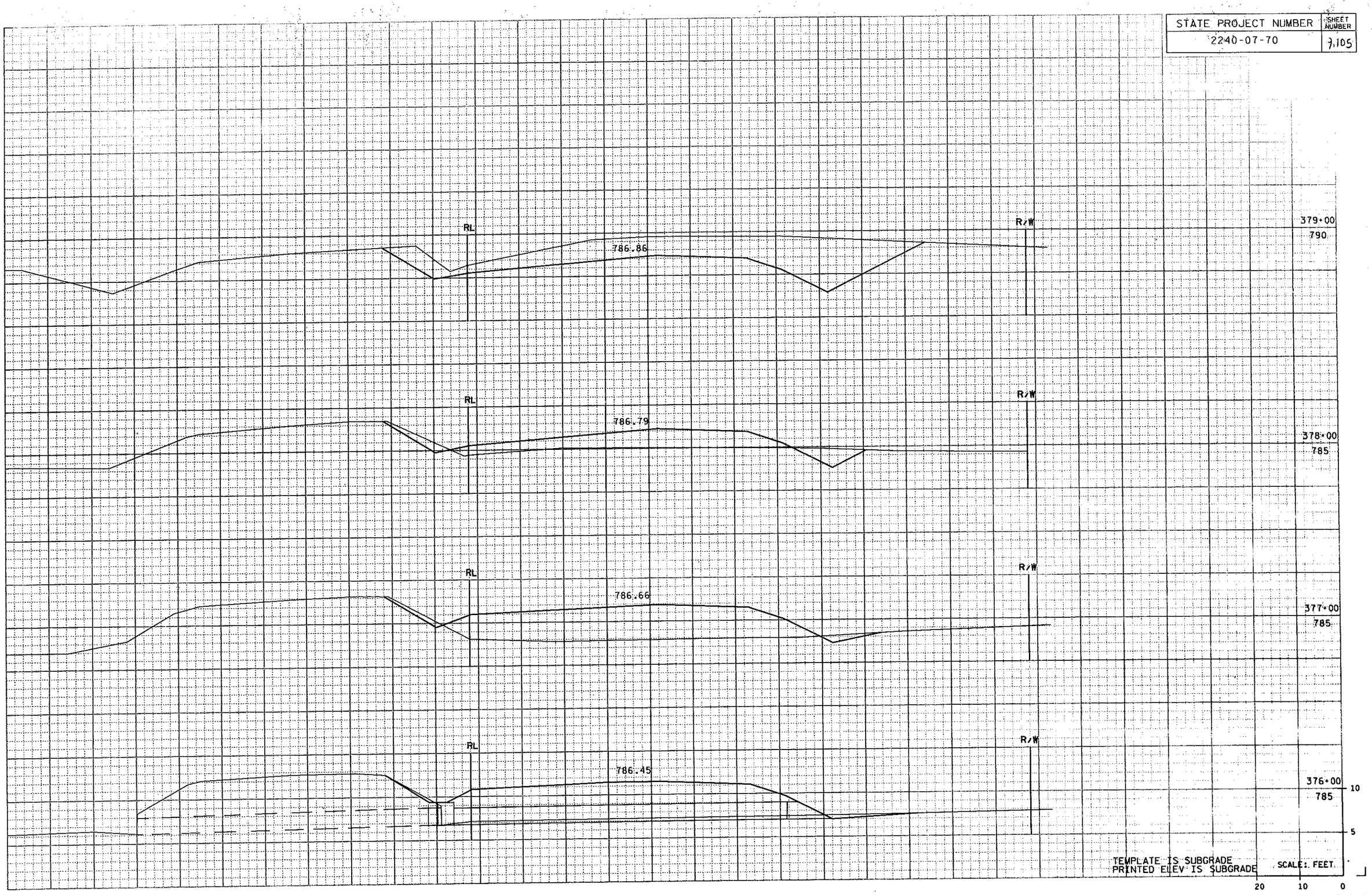
SCALE: FEET

20 10 0

SHEET NO 41 2 2240070019

D2 2240736S:xsecy.dgn Tue Aug 30 07:42:07 CDT 1994

STATE PROJECT NUMBER	SHEET NUMBER
2240-07-70	7.105

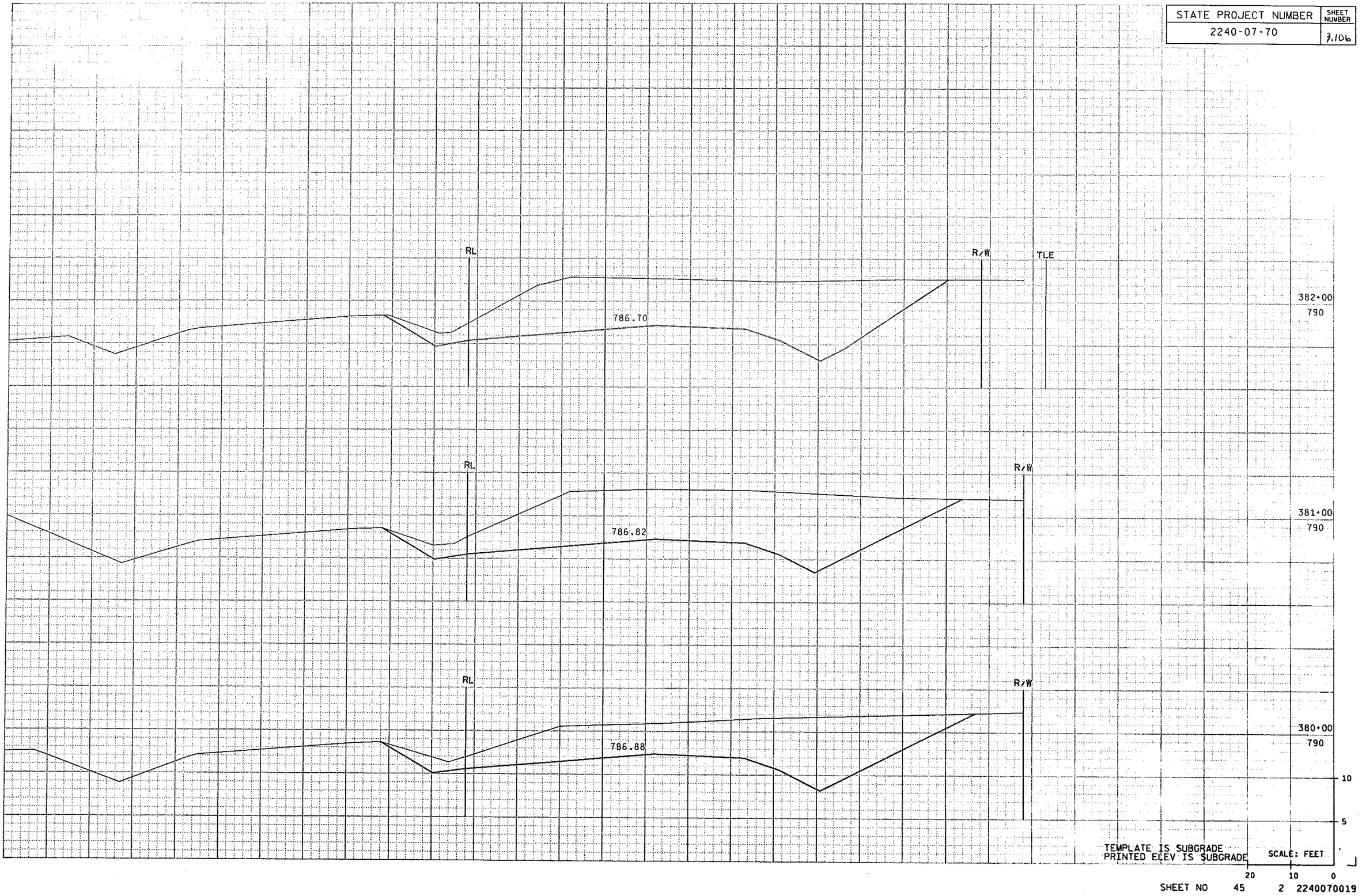


TEMPLATE IS SUBGRADE
PRINTED ELEV IS SUBGRADE

SCALE: FEET

SHEET NO 44 2 2240070019

STATE PROJECT NUMBER	SHEET NUMBER
2240-07-70	7,106



SHEET NO 45 2 2240070019

02 2240070019:xsecy.dgn Tue Aug 30 07:42:07 CDT 1994

STATE PROJECT NUMBER	SHEET NUMBER
2240-07-70	1.107

RL

785.94

R/W

BEGIN MARSH EXC. STA. 385+00

385+00

785

RL

786.25

R/W

TLE

384+00

790

RL

786.51

R/W

TLE

383+00

790

10

5

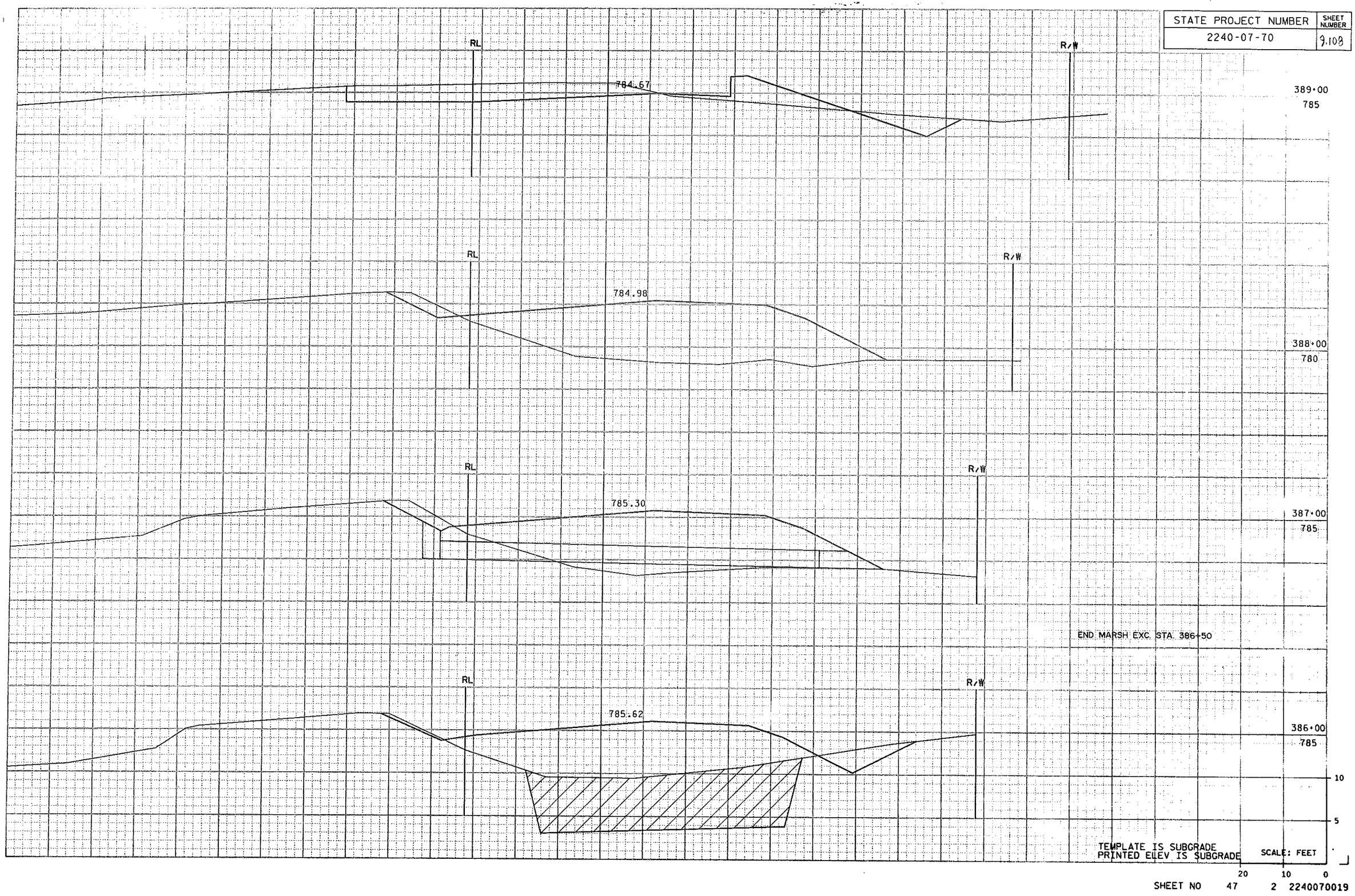
TEMPLATE IS SUBGRADE
PRINTED ELEV IS SUBGRADE

SCALE: FEET

20 10 0

SHEET NO 46 2 2240070019

STATE PROJECT NUMBER	SHEET NUMBER
2240-07-70	9.108



SHEET NO 47 2 2240070019

DZ 4270705.dgn Tue Aug 30 07:42:07 CDT 1994

STATE PROJECT NUMBER	SHEET NUMBER
2240-07-70	9.109

RL

783.63

R/W

392+00

780

RL

784.01

R/W

391+00

780

RL

784.35

390+00

785

RL

784.63

389+11

785

10

5

TEMPLATE IS SUBGRADE
PRINTED ELEV IS SUBGRADE

SCALE: FEET

20 10 0

SHEET NO 48 2 2240070019

STATE PROJECT NUMBER	SHEET NUMBER
2240-07-70	9.110

RL

R/W

782.27

395+00

780

RL

R/W

782.76

394+00

780

RL

R/W

783.22

393+00

780

10

5

TEMPLATE IS SUBGRADE
PRINTED ELEV IS SUBGRADE

SCALE: FEET

20 10 0

SHEET NO 49 2 2240070019

D2 22400736S:xsecy.dgn Tue Aug 30 07:42:07 CDT 1994

STATE PROJECT NUMBER	SHEET NUMBER
2240-07-70	9.111

RL

R/W

780.71

398+00

785

RL

R/W

781.20

397+00

785

RL

R/W

781.73

396+00

780

10

5

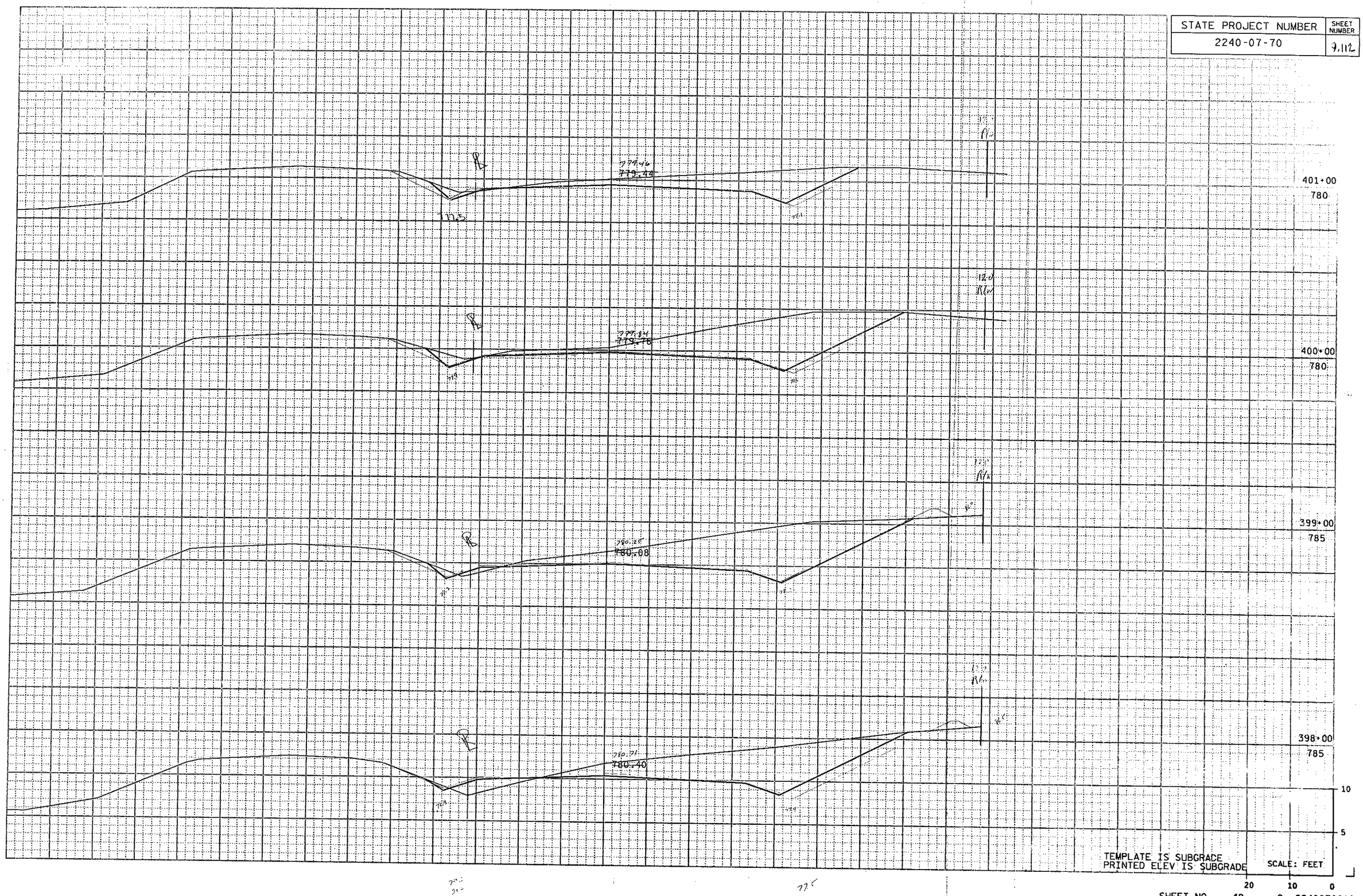
TEMPLATE IS SUBGRADE
PRINTED ELEV IS SUBGRADE

SCALE: FEET

20 10 0

SHEET NO 50 2 2240070019

STATE PROJECT NUMBER	SHEET NUMBER
2240-07-70	9.112



SHEET NO 42 2 2240070019

D2 2240736S:xsec36p.dgn Tue Jan 25 13:22:56 CST 1994

STATE PROJECT NUMBER	SHEET NUMBER
2240-07-70	9,113

RL

R/W

779.12

402+00

780

RL

R/W

779.46

401+00

780

RL

R/W

779.84

400+00

780

RL

R/W

780.25

399+00

785

10

5

TEMPLATE IS SUBGRADE
PRINTED ELEV IS SUBGRADE

SCALE: FEET

20 10 0

SHEET NO 51 2 2240070019

STATE PROJECT NUMBER	SHEET NUMBER
2240-07-70	9,114

RL

R/W

777.84

406+00
780

RL

R/W

778.16

405+00
780

RL

R/W

778.48

404+00
775

RL

R/W

778.80

403+00
775

10

5

TEMPLATE IS SUBGRADE
PRINTED ELEV IS SUBGRADE

SCALE: FEET

20 10 0

SHEET NO 52 2 2240070019

D2 2240073GS:xsecy.dgn Tue Aug 30 07:42:07 CDT 1994

STATE PROJECT NUMBER	SHEET NUMBER
2240-07-70	7.115

RL

776.57

R/W

410+00
775

RL

776.89

R/W

BEGIN MARSH EXC STA. 409+00

409+00
780

RL

777.20

R/W

408+00
780

RL

777.52

R/W

407+00
780

10

5

TEMPLATE IS SUBGRADE
PRINTED ELEV IS SUBGRADE

SCALE: FEET

20 10 0

STATE PROJECT NUMBER	SHEET NUMBER
2240-07-70	9,116

RL

775.34

R/W

413+84
775

RL

775.61

R/W

413+00
775

RL

775.93

R/W

412+00
775

RL

776.25

R/W

END MARSH EXC. STA. 411+00

411+00
775

10

5

TEMPLATE IS SUBGRADE
PRINTED ELEV IS SUBGRADE

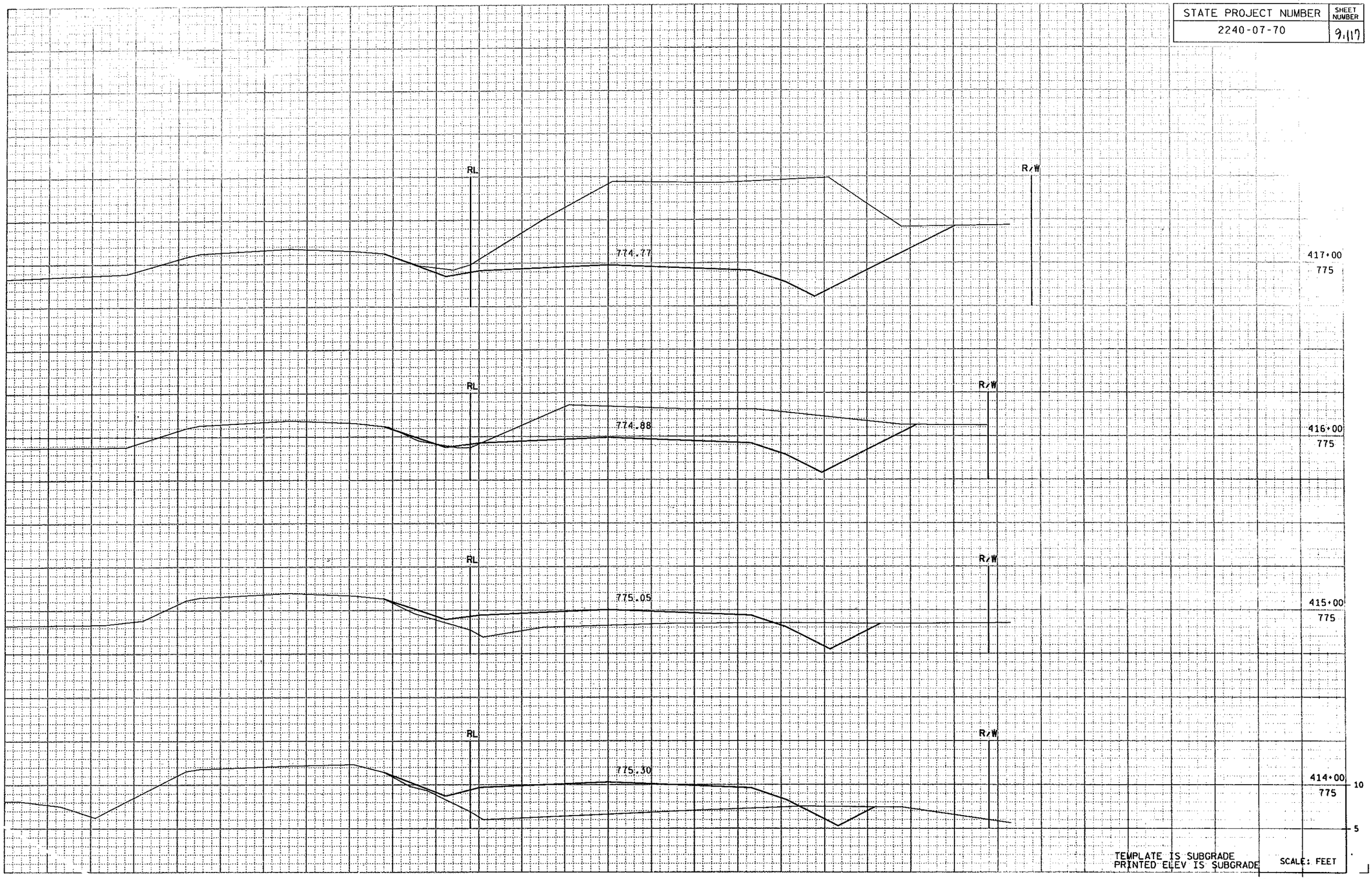
SCALE: FEET

20 10 0

SHEET NO 54 2 2240070019

D2 22400736S:xsecy.dgn Tue Aug 30 07:42:07 CDT 1994

STATE PROJECT NUMBER	SHEET NUMBER
2240-07-70	9.117



TEMPLATE IS SUBGRADE
PRINTED ELEV IS SUBGRADE

SCALE: FEET

SHEET NO 55 2 2240070019

STATE PROJECT NUMBER	SHEET NUMBER
2240-07-70	9.118

RL

R/W

774.89

420+00
775

RL

R/W

774.78

419+00
775

RL

R/W

774.74

418+00
775

10

5

TEMPLATE IS SUBGRADE
PRINTED ELEV IS SUBGRADE

SCALE: FEET

20 10 0

SHEET NO 56 2 2240070019

STATE PROJECT NUMBER	SHEET NUMBER
2240-07-70	9.119

RL

R/W

422+00

780

775.33

0

RL

R/W

421+00

780

775.08

10

5

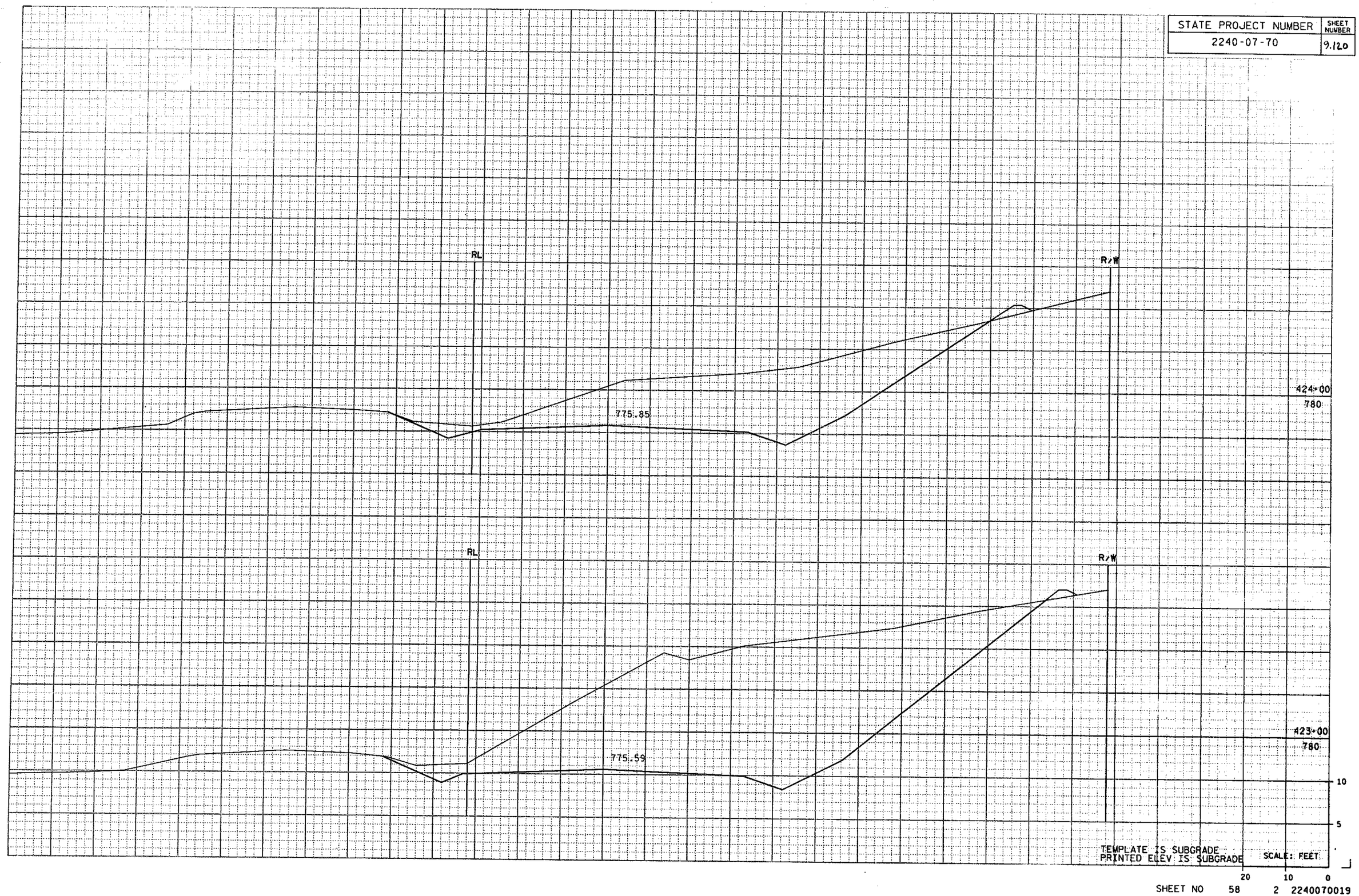
TEMPLATE IS SUBGRADE
PRINTED ELEV IS SUBGRADE

SCALE: FEET

20 10 0

SHEET NO 57 2 2240070019

STATE PROJECT NUMBER	SHEET NUMBER
2240-07-70	9.120



SHEET NO 58 2 2240070019

Z 2240736S:xsecy.dgn Tue Aug 30 07:42:07 CDT 1994

STATE PROJECT NUMBER	SHEET NUMBER
2240-07-70	9.121

RL

776.62

R/W

427+00
780

RL

776.36

R/W

426+00
780

RL

776.10

R/W

425+00
780

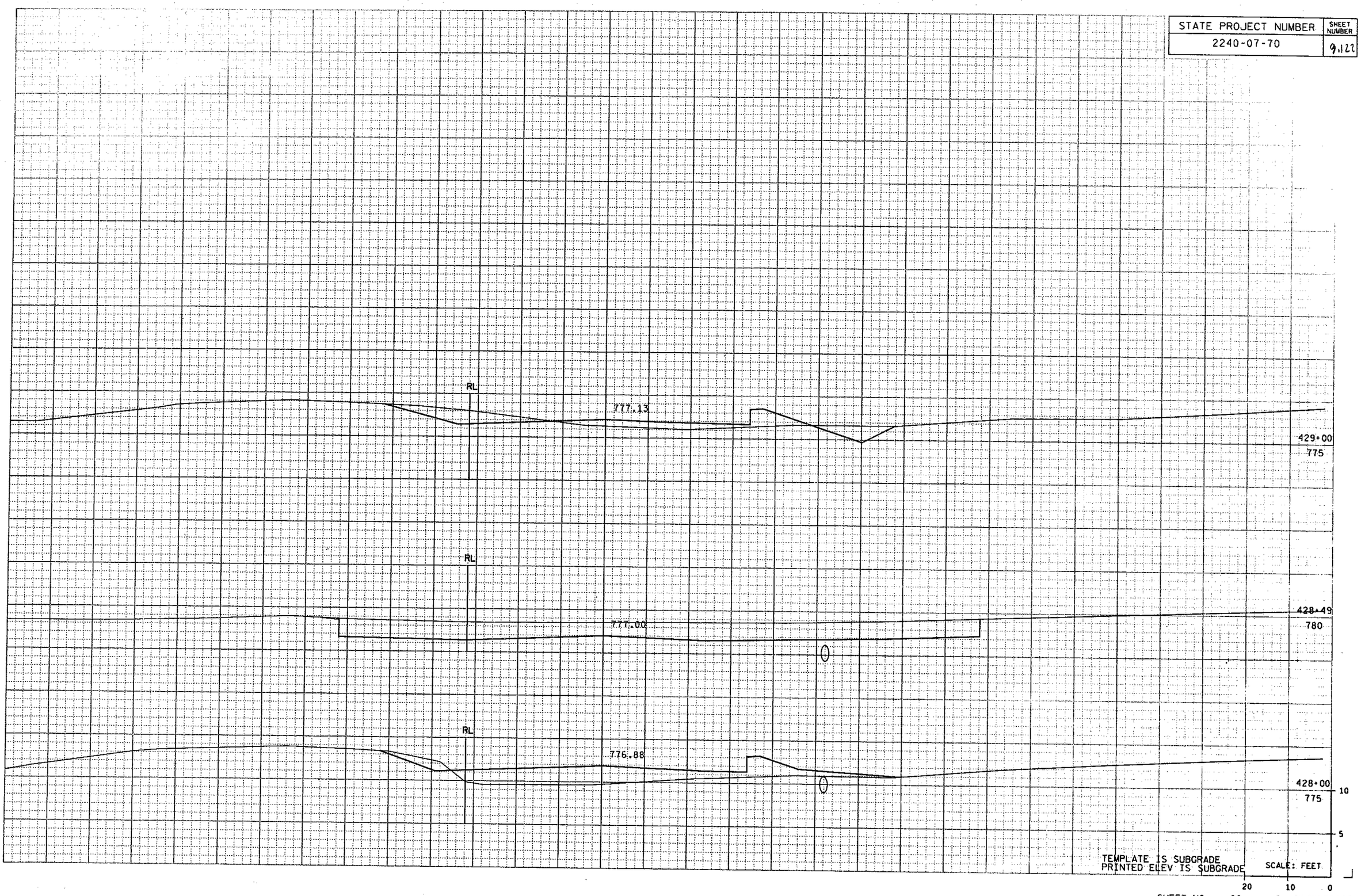
10

5

TEMPLATE IS SUBGRADE
PRINTED ELEV IS SUBGRADE

SCALE: FEET
20 10 0

STATE PROJECT NUMBER	SHEET NUMBER
2240-07-70	9.122



SHEET NO 60 2 2240070019

D2 22400736S:xsecy.dgn Tue Aug 30 07:42:07 CDT 1994

STATE PROJECT NUMBER	SHEET NUMBER
2240-07-70	1.123

RL

R/W

777.65

431+00

780

RL

R/W

777.39

430+00

780

10

5

TEMPLATE IS SUBGRADE
PRINTED ELEV IS SUBGRADE

SCALE: FEET

20 10 0

SHEET NO 61 2 2240070019

STATE PROJECT NUMBER	SHEET NUMBER
2240-07-70	9.124

RL

R/W

778.42

434+00

775

RL

R/W

778.17

433+00

775

RL

R/W

777.91

432+00

780

10

5

TEMPLATE IS SUBGRADE
PRINTED ELEV IS SUBGRADE

SCALE: FEET

20 10 0

SHEET NO 62 2 2240070019

D2 2240736S:xsecy.dgn Tue Aug 30 07:42:07 CDT 1994

STATE PROJECT NUMBER	SHEET NUMBER
2240-07-70	9,125

RL

779.92

R/W

438+00
775

RL

779.30

R/W

437+00
775

RL

778.94

R/W

436+00
775

RL

778.68

R/W

435+00
775

10

5

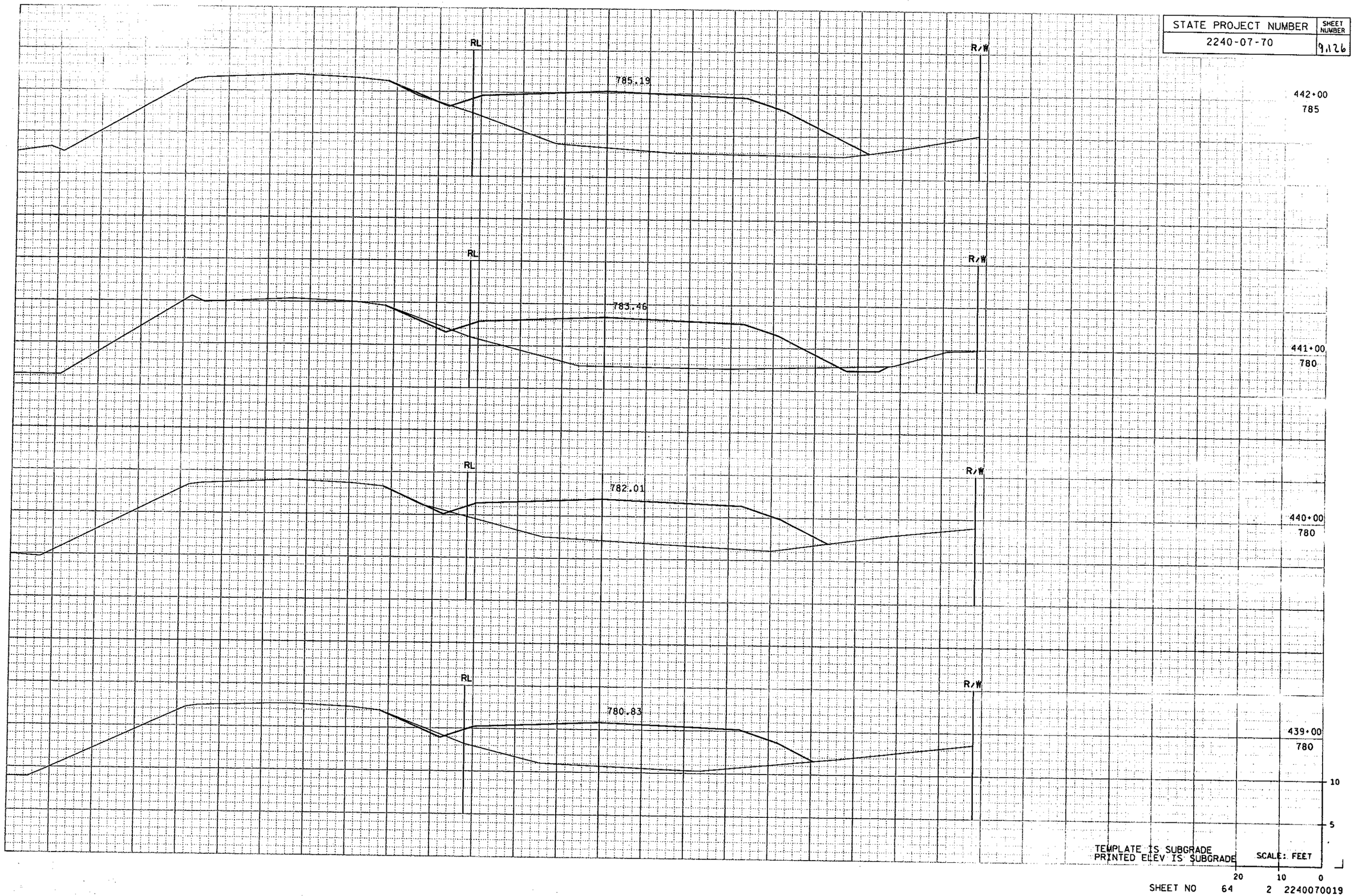
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PRINTED ELEV IS SUBGRADE

SCALE: FEET

20 10 0

SHEET NO 63 2 2240070019

STATE PROJECT NUMBER	SHEET NUMBER
2240-07-70	9.126



D2 2240073GS:xsecy.dgn Tue Aug 30 07:42:07 CDT 1994

STATE PROJECT NUMBER	SHEET NUMBER
2240-07-70	9.127

RL

792.42

R/W

446+00
795

RL

790.70

R/W

445+00
790

RL

788.93

R/W

444+00
785

RL

787.08

R/W

443+00
785

10

5

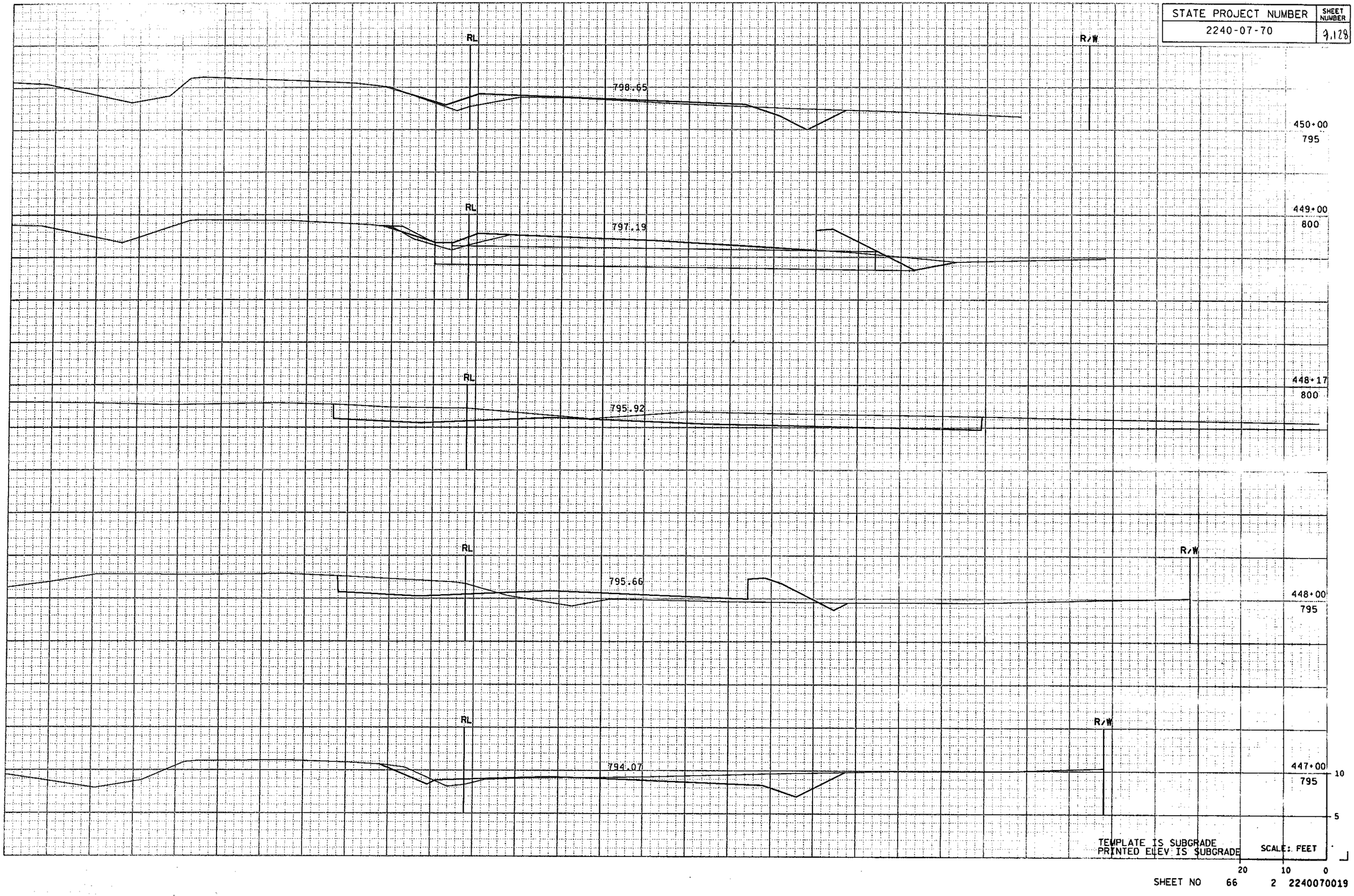
TEMPLATE IS SUBGRADE
PRINTED ELEV IS SUBGRADE

SCALE: FEET

20 10 0

SHEET NO 65 2 2240070019

STATE PROJECT NUMBER	SHEET NUMBER
2240-07-70	9.128



SHEET NO 66 2 2240070019

D2 2240073GS:xsecy.dgn Tue Aug 30 07:42:07 CDT 1994

STATE PROJECT NUMBER	SHEET NUMBER
2240-07-70	9,124

RL

803.87

R/W

454+00

800

RL

802.66

R/W

453+00

800

RL

801.39

R/W

452+00

800

RL

800.05

R/W

451+00

800

10

5

TEMPLATE IS SUBGRADE
PRINTED ELEV IS SUBGRADE

SCALE: FEET

20 10 0

SHEET NO 67 2 2240070019

STATE PROJECT NUMBER	SHEET NUMBER
2240-07-70	9.130

RL

R/W

808.08

458+00
810

RL

R/W

807.12

457+00
810

RL

R/W

806.11

456+00
805

RL

R/W

805.02

455+00
805

10

5

TEMPLATE IS SUBGRADE
PRINTED ELEV IS SUBGRADE

SCALE: FEET

20 10 0

SHEET NO 68 2 2240070019

DE c:\projects\xsecy.dgn Tue Aug 30 07:42:07 CDT 1994

STATE PROJECT NUMBER	SHEET NUMBER
2240-07-70	9.131

RL

R/W

809.81

460+00

810

RL

R/W

808.98

459+00

810

10

5

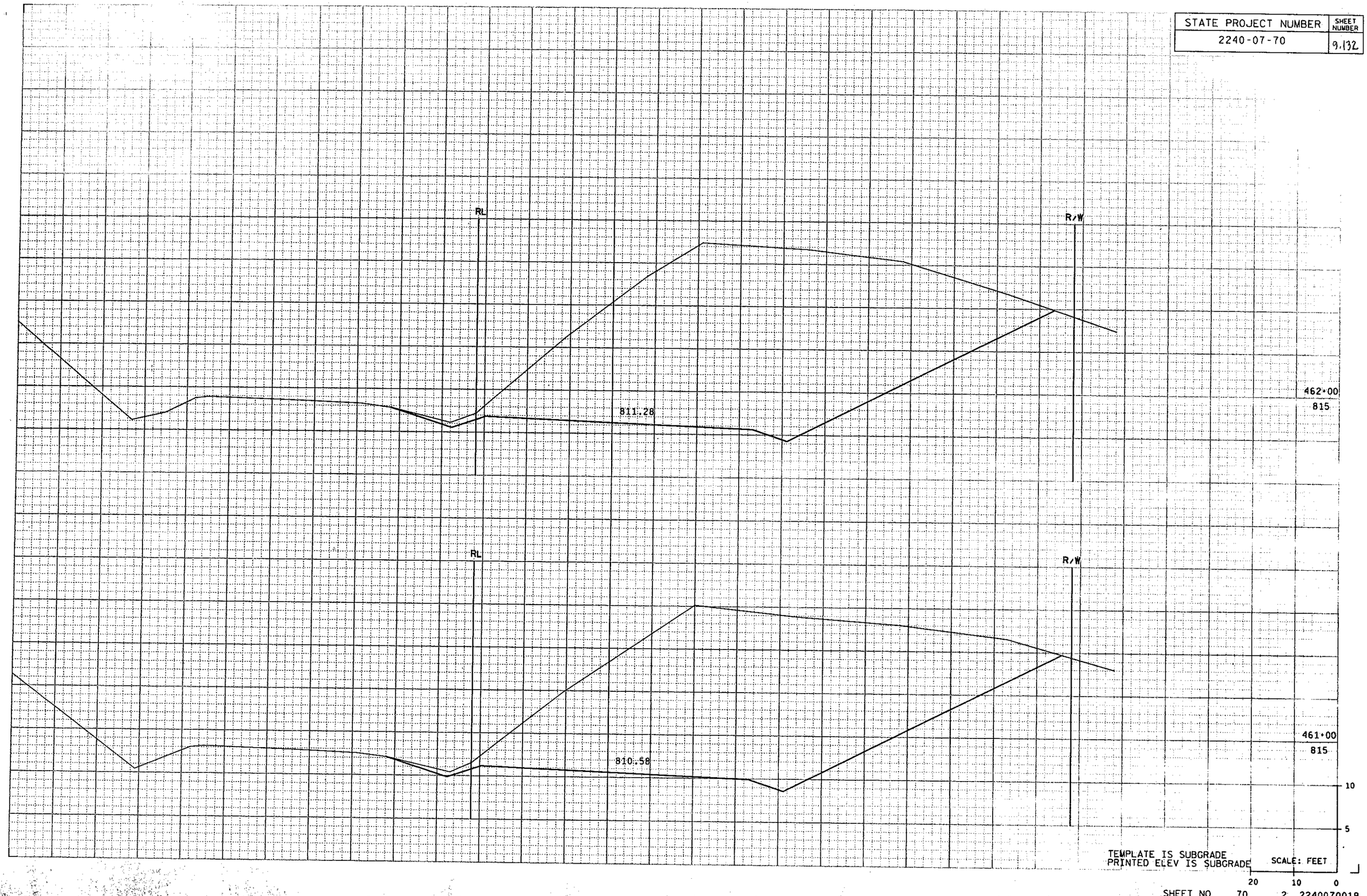
TEMPLATE IS SUBGRADE
PRINTED ELEV IS SUBGRADE

SCALE: FEET

20 10 0

SHEET NO 69 2 2240070019

STATE PROJECT NUMBER	SHEET NUMBER
2240-07-70	9.132



SHEET NO 70 2 2240070019

DZ 2240070019xsecy.dgn Tue Aug 30 07:42:07 CDT 1994

STATE PROJECT NUMBER	SHEET NUMBER
2240-07-70	9133

RL

813.03

R/W

465+00

810

RL

812.51

R/W

464+00

815

RL

811.93

R/W

463+00

815

10

5

TEMPLATE IS SUBGRADE
PRINTED ELEV IS SUBGRADE

SCALE: FEET

20 10 0

SHEET NO 71 2 2240070019

STATE PROJECT NUMBER	SHEET NUMBER
2240-07-70	9.134

RL

R/W

813.87

467+00

810

RL

R/W

813.64

466+38

810

RL

R/W

813.47

466+00

810

10

5

TEMPLATE IS SUBGRADE
PRINTED ELEV IS SUBGRADE

SCALE: FEET

20 10 0

SHEET NO 72 2 2240070019

D2 2240073SS:xsecy.dgn Tue Aug 30 07:42:07 CDT 1994

STATE PROJECT NUMBER	SHEET NUMBER
2240-07-70	7,135

BEGIN MARSH EXC. STA. 471+50

RL

814.79

R/W

471+00
815

RL

814.65

R/W

470+00
815

RL

814.46

R/W

469+00
810

RL

814.19

R/W

468+00
810

10

5

TEMPLATE IS SUBGRADE
PRINTED ELEV IS SUBGRADE

SCALE: FEET

20 10 0

SHEET NO 73 2 2240070019

STATE PROJECT NUMBER	SHEET NUMBER
2240-07-70	7.136

RL

R/W

814.59

476+00
810

RL

R/W

814.73

475+00
815

RL

R/W

814.83

END MARSH EXC. STA. 474+00

474+00
815

RL

R/W

814.88

473+00
810

RL

R/W

814.86

472+00
810

TEMPLATE IS SUBGRADE
PRINTED ELEV IS SUBGRADE

SCALE: FEET

10 5 0 20 10 0

SHEET NO 74 2 2240070019

D2 2240073SS:xsecy.dgn Tue Aug 30 07:42:07 CDT 1994

STATE PROJECT NUMBER	SHEET NUMBER
2240-07-70	9,137

RL

813.87

R/W

479+00
810

RL

814.16

R/W

478+00
810

RL

814.40

R/W

477+00
810

10

5

TEMPLATE IS SUBGRADE
PRINTED ELEV IS SUBGRADE

SCALE: FEET

20 10 0

SHEET NO 75 2 2240070019

STATE PROJECT NUMBER	SHEET NUMBER
2240-07-70	9.138

RL

R/W

813.16

481+00

810

RL

R/W

813.54

BEGIN MARSH EXC STA. 480+00

480+00

810

RL

R/W

813.63

479+75

810

10

5

TEMPLATE IS SUBGRADE
PRINTED ELEV IS SUBGRADE

SCALE: FEET

20 10 0

SHEET NO 76 2 2240070019

D2 22400736S:xsecy.dgn Tue Aug 30 07:42:07 CDT 1994

STATE PROJECT NUMBER	SHEET NUMBER
2240-07-70	9.139

RL

811.59

R/W

485+00
810

RL

811.98

R/W

484+00
810

RL

812.37

R/W

483+00
810

RL

812.77

R/W

END MARSH EXC. STA. 482+00

482+00
810

10

5

TEMPLATE IS SUBGRADE
PRINTED ELEV IS SUBGRADE

SCALE: FEET

20 10 0

SHEET NO 77 2 2240070019

150 100 50 50

STATE PROJECT NUMBER	SHEET NUMBER
2240-01-70	9.140

STATION	DISTANCE	YARDAGE EXCAVATION				FILL

70+00.0
760

69+50.0
760

69+00.0
760

68+50.0
760

68+00.0
760

67+55.0
765

150 100 50 50

1=10 HOR
1=05 VER

SHEET NO 1 2524

TEUT RD.

150 100 50 50

STATE PROJECT NUMBER	SHEET NUMBER
2240-01-70	9.141

STATION	DISTANCE	YARDAGE EXCAVATION				FILL

72+50.0
765

72+00.0
760

71+50.0
760

71+00.0
760

70+50.0
760

150 100 50 50

1=10 HOR
1=05 VER

SHEET NO 2 2524

TEUT RD.

150 100 50 50

STATE PROJECT NUMBER	SHEET NUMBER
2240-01-70	9,142

STATION	DISTANCE	YARDAGE EXCAVATION				FILL

73+00.0
765

150 100 50 50

1=10 HOR
1=05 VER

SHEET NO 3 2524

TEUT RD.

150 100 50 50

STATE PROJECT NUMBER	SHEET NUMBER
2240-07-70	9,143

STATION	DISTANCE	YARDAGE EXCAVATION	FILL

R/W

17+50.0
77.0

17+00.0
77.0

R/W

R/W

16+50.0
77.5

16+00.0
77.5

15+50.0
77.5

15+00.0
77.5

1=10 HOR
1=05 VER

SHEET NO. 1 2525

C.T.H. W

STATE PROJECT NUMBER	SHEET NUMBER
2240-07-70	9.144

STATION	DISTANCE	YARDAGE EXCAVATION	FILL

150 100 50 50

R/W

21+00.0
775

20+50.0
775

20+00.0
780

R/W

19+50.0
775

R/W

19+00.0
775

18+50.0
775

R/W

18+00.0
770

150 100 50 50

1=10 HOR
1=05 VER

SHEET NO 2 2525

C.T.H. W

DOT 199 Thu Oct 28 11:50:56 CDT

150 100 50 50

R/W R/W

STATE PROJECT NUMBER	SHEET NUMBER
2240-07-70	9.145

STATION	DISTANCE	YARDAGE EXCAVATION	YARDAGE FILL
24+00.0	775		
23+75.0	775		
23+61.0	780		
23+50.0	775		
23+00.0	775		
22+50.0	775		
22+00.0	775		

R/W

R/W

150 100 50 50

1=10 HOR
1=05 VER

SHEET NO 3 2525

C.T.H.W

STATE PROJECT NUMBER	SHEET NUMBER
2240-07-70	9.146

STATION	DISTANCE	YARDAGE	
		EXCAVATION	FILL

150 100 50 50

25+00.0
775

24+50.0
775

150 100 50 50

1=10 HOR
1=05 VER

SHEET NO 4 2525

C.T.H. W

D2 22400736S:xs2525r.dgn Thu Oct 28 11:50:56 CDT 199

STATE PROJECT NUMBER	SHEET NUMBER
2240-07-70	9.147

STATION	DISTANCE	YARDAGE EXCAVATION	YARDAGE FILL

150 100 50 50

16+68.0
770
R/W
16+50.0
770
R/W
R/W
16+00.0
770
15+50.0
765
15+34.0
770
15+00.0
765

150 100 50 50

1=10 HOR
1=05 VER

SHEET NO 1 2526

RIVER ROAD

STATE PROJECT NUMBER	SHEET NUMBER
2240-07-70	9.148

STATION	DISTANCE	YARDAGE EXCAVATION	FILL

150 100 50 50

19+00.0
770

18+50.0
770

18+00.0
775

17+75.0
775

I-24"X96 R.C.C.P.

R/W

17+50.0
770

R/W

17+00.0
770

150 100 50 50

1=10 HOR
1=05 VER

SHEET NO 2 2526

RIVER ROAD

D2 22400736S:xs2526.dgn Thu Oct 28 12:36:50 CDT 1993

STATE PROJECT NUMBER	SHEET NUMBER
2240-07-70	7,149

STATION	DISTANCE	YARDAGE EXCAVATION	YARDAGE FILL

150 100 50 50

21+13.0
775

21+00.0
770

20+50.0
770

20+00.0
770

19+50.0
770

150 100 50 50

1=10 HOR
1=05 VER

SHEET NO 3 2526

RIVER ROAD

150 100 50 50

STATE PROJECT NUMBER	SHEET NUMBER
2240-07-70	9.150

STATION	DISTANCE	YARDAGE EXCAVATION	FILL

23+50.0
770

23+00.0
770

22+50.0
770

22+00.0
770

21+50.0
770

150 100 50 50

1=10 HOR
1=05 VER

SHEET NO 4 2526

RIVER ROAD

D2 2240073S:xs2526.dgn Thu Oct 28 12:36:50 CDT 1993

150 100 50 50

STATE PROJECT NUMBER	SHEET NUMBER
2240-07-70	9.151

STATION	DISTANCE	YARDAGE EXCAVATION				FILL

24+00.0

775

1=10 HOR
1=05 VER

150 100 50 50

SHEET NO 5 2526

RIVER ROAD

STATE PROJECT NUMBER	SHEET NUMBER
2240-07-70	9,152

STATION	DISTANCE	YARDAGE EXCAVATION	FILL

150 100 50 50

20+50.0
800

20+00.0
800

19+00.0
795

18+50.0
800

18+00.0
795

150 100 50 50

1=10 HOR
1=05 VER

SHEET NO 2 2527

CTH "J"

D2 2240073GS:xs2527r.dgn Thu Oct 28 12:44:12 CDT 199

STATE PROJECT NUMBER	SHEET NUMBER
2240-07-70	9,153

STATION	DISTANCE	YARDAGE EXCAVATION				FILL

150 100 50 50

22+78.0
805

22+50.0
805

R/W

R/W

22+00.0
805

R/W

21+50.0
805

21+00.0
800

150 100 50 50

1=10 HOR
1=05 VER

SHEET NO 3 2527

CTH "J"

150 100 50 50

STATE PROJECT NUMBER	SHEET NUMBER
2240-07-70	2.154

STATION	DISTANCE	YARDAGE EXCAVATION				FILL

25+00.0
805

24+50.0
805

24+00.0
805

23+50.0
805

23+00.0
805

150 100 50 50

1=10 HOR
1=05 VER

SHEET NO 4 2527

CTH "J"

STATE PROJECT NUMBER	SHEET NUMBER
2240-07-70	9.155

STATION	DISTANCE	YARDAGE EXCAVATION	FILL

150 100 50 50

16+50.0
805

16+00.0
805

15+50.0
800

15+28.0
805

15+00.0
800

150 100 50 50

1=10 HOR
1=05 VER

SHEET NO 1 2528

CTH "D"

150 100 50 50

STATE PROJECT NUMBER	SHEET NUMBER
2240-07-70	9,156

STATION	DISTANCE	YARDAGE EXCAVATION				FILL

18+50.0
810

18+24.0
810

○ = DRIVE WAY PIPE

18+00.0
805

17+50.0
805

17+00.0
805

150 100 50 50

1=10 HOR
1=05 VER

SHEET NO 2 2528

CTH "D"

THU OCT 28 14:11:23 CDT 1993

150 100 50 50

STATE PROJECT NUMBER	SHEET NUMBER
2240-07-70	9.157

STATION	DISTANCE	YARDAGE EXCAVATION	YARDAGE FILL
21+00.0			
810			
20+50.0			
810			
20+00.0			
815			
19+50.0			
810			
19+00.0			
810			

150 100 50 50

1=10 HOR
1=05 VER

SHEET NO 3 2528

CTH "D"

STATE PROJECT NUMBER	SHEET NUMBER
2240-07-70	9158

STATION	DISTANCE	YARDAGE EXCAVATION				FILL

150 100 50 50

R/W R/W R/W R/W R/W

23+24.0
810

23+00.0
810

22+50.0
810

22+00.0
810

21+50.0
815

150 100 50 50

1=10 HOR
1=05 VER

SHEET NO 4 2528

CTH "D"

\2 22400736S:xs2528.dgn Thu Oct 28 14:11:23 CDT 1993

150 100 50 50

STATE PROJECT NUMBER	SHEET NUMBER
2240-07-70	9.159

STATION	DISTANCE	YARDAGE EXCAVATION	FILL

25+00.0
795

24+50.0
795

24+00.0
800

23+67.0
810

23+50.0
805

150 100 50 50

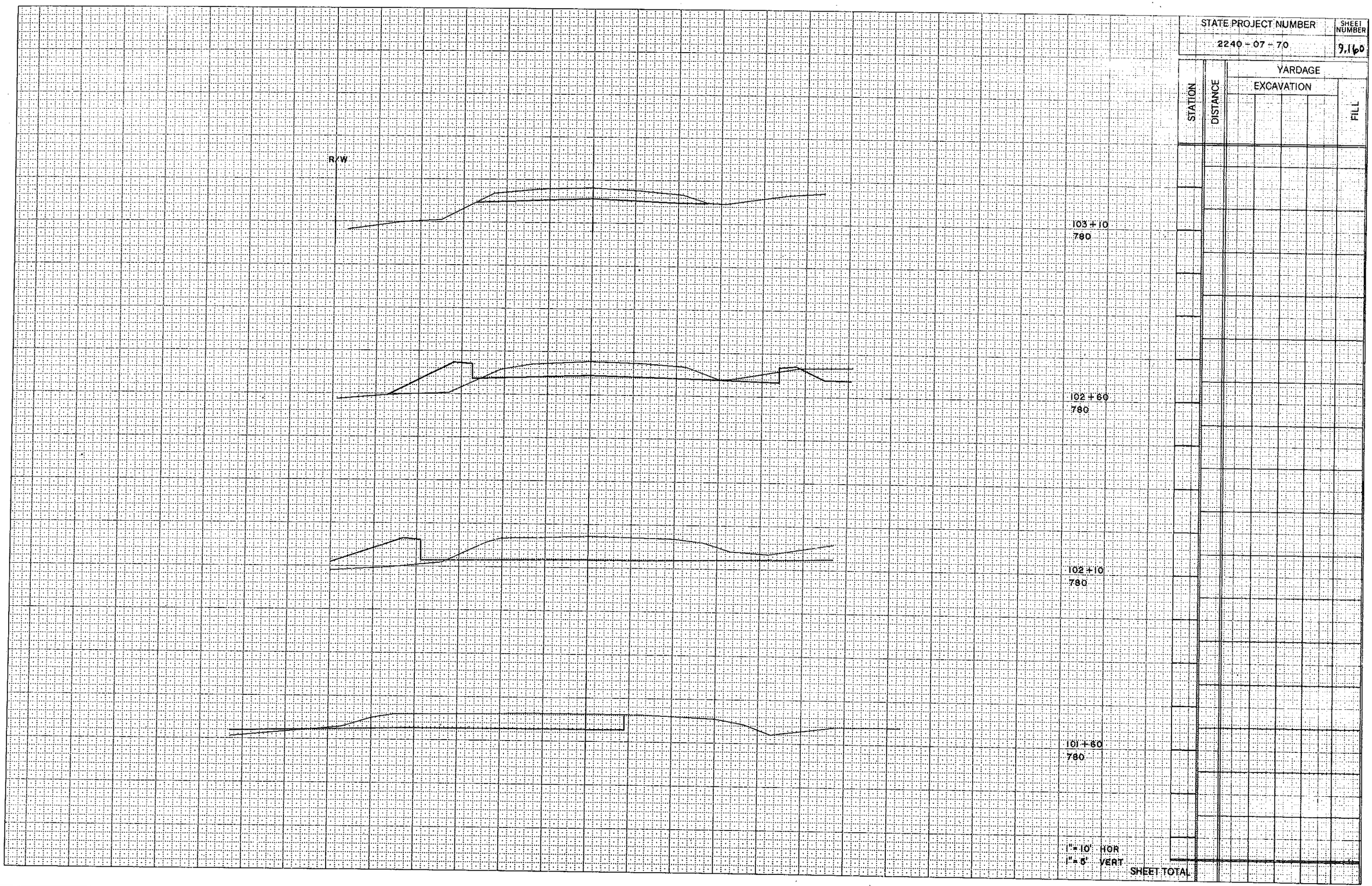
1=10 HOR
1=05 VER

SHEET NO 5 2528

CTH "D"

STATE PROJECT NUMBER	SHEET NUMBER
2240 - 07 - 70	9.160

STATION	DISTANCE	YARDAGE EXCAVATION	YARDAGE FILL



SHEET TOTAL

Catalog No. 2130-C121

STATE PROJECT NUMBER	SHEET NUMBER
2240-07-70	9.161

STATION	DISTANCE	YARDAGE				
		EXCAVATION				FILL

150 100 50 50

17+92.0
785
17+50.0
785
17+26.0
785
17+00.0
785
16+50.0
785
16+00.0
785
15+50.0
785
15+19.0
785
15+00.0
785

150 100 50 50

1=10 HOR
1=05 VER

SHEET NO 1 2529

MAIN ST.

150 100 50 50

STATE PROJECT NUMBER	SHEET NUMBER
2240-07-70	9.162

STATION	DISTANCE	YARDAGE EXCAVATION				FILL

20+50.0
785
20+00.0
780
19+50.0
785
19+00.0
785
18+50.0
780
18+00.0
780

150 100 50 50

1=10 HOR
1=05 VER

SHEET NO 2 2529

MAIN ST.

D2 2240073S:xs2529.dgn Thu Oct 28 14:12:58 CDT 1993

150 100 50 50

R/W R/W

23+00.0
785

22+50.0
785

22+00.0
785

21+58.0
785

R/W

21+50.0
785

21+00.0
785

150 100 50 50

STATE PROJECT NUMBER	SHEET NUMBER
2240-07-70	9163

STATION	DISTANCE	YARDAGE EXCAVATION				FILL

1=10 HOR
1=05 VER

SHEET NO 3 2529

MAIN ST.

STATE PROJECT NUMBER	SHEET NUMBER
2240-07-70	9,164

STATION	DISTANCE	YARDAGE EXCAVATION	FILL

150 100 50 50

25+00.0
795

24+50.0
795

24+00.0
795

23+50.0
790

150 100 50 50

1=10 HOR
1=05 VER

SHEET NO 4 2529

MAIN ST.

D2 2240073GS:xs2529.dgn Thu Oct 28 14:12:58 CDT 1993

150 100 50 50

STATE PROJECT NUMBER	SHEET NUMBER
2240-07-70	9,165

STATION	DISTANCE	YARDAGE EXCAVATION				FILL

106+00.0
775

105+50.0
775

105+00.0
775

104+50.0
775

104+00.0
775

150 100 50 50

1=10 HOR
1=05 VER

SHEET NO 1 2530

"K" AND 164

STATE PROJECT NUMBER	SHEET NUMBER
2240-07-70	9.166

STATION	DISTANCE	YARDAGE				
		EXCAVATION				FILL

150 100 50 50

109+00.0
775

108+50.0
780

108+00.0
775

107+50.0
775

107+00.0
775

106+50.0
775

150 100 50 50

1=10 HOR
1=05 VER

SHEET NO 2 2530

"K" AND 164

D2 22400736S:xs2530.dgn Thu Oct 28 14:14:27 CDT 1993

2240-07-70 | 9.167

STATION	DISTANCE	YARDAGE EXCAVATION				FILL

110+50.0
780
R/W

110+00.0
780

109+50.0
780

150 100 50 50

1=10 HOR
1=05 VER

SHEET NO 3 2530

"K" AND 164

STATE PROJECT NUMBER	SHEET NUMBER
2240-07-70	9.168

STATION	DISTANCE	YARDAGE EXCAVATION	YARDAGE FILL

150 100 50 50

112+00.0
785

111+50.0
780

R/W

R/W

111+00.0
780

150 100 50 50

1=10 HOR
1=05 VER

SHEET NO 4 2530

"K" AND 164

D2 2240073GS:xs2530.dgn Thu Oct 28 14:14:27 CDT 1993

150 100 50 50

STATE PROJECT NUMBER	SHEET NUMBER
2240-07-70	9,163

STATION	DISTANCE	YARDAGE EXCAVATION				FILL

113+00.0
785

112+50.0
785

150 100 50 50

1=10 HOR
1=05 VER

SHEET NO 5 2530

"K" AND 164

STATE PROJECT NUMBER	SHEET NUMBER
2240-07-70	9.170

STATION	DISTANCE	YARDAGE EXCAVATION				FILL

150 100 50 50

17+00.0
800

16+50.0
805

16+00.0
805

15+90.0
805

15+50.0
805

15+00.0
805

150 100 50 50

1=10 HOR
1=05 VER

SHEET NO 1 2531

KRAMER

12 22400736S:xs2531.dgn Thu Oct 28 14:16:07 CDT 1993

150 100 50 50

STATE PROJECT NUMBER	SHEET NUMBER
2240-07-70	9,171

STATION	DISTANCE	YARDAGE EXCAVATION	FILL

20+50.0
795

20+00.0
795

19+50.0
800

19+00.0
795

18+50.0
795

18+00.0
800

17+50.0
800

150 100 50 50

1=10 HOR
1=05 VER

SHEET NO 2 2531

KRAMER

STATE PROJECT NUMBER	SHEET NUMBER
2240-07-70	9.172

STATION	DISTANCE	YARDAGE EXCAVATION				FILL

150 100 50 50

24+00.0
795

23+50.0
795

23+00.0
795

R/W R/W

22+50.0
795

R/W R/W

22+00.0
795

21+50.0
795

21+00.0
795

150 100 50 50

1=10 HOR
1=05 VER

SHEET NO 3 2531

KRAMER

D2 2240073GS:xs2531.dgn Thu Oct 28 14:16:07 CDT 1993

150 100 50 50

STATE PROJECT NUMBER	SHEET NUMBER
2240-07-70	9.03

STATION	DISTANCE	YARDAGE EXCAVATION				FILL

25+00.0
795

24+50.0
795

150 100 50 50

1=10 HOR
1=05 VER

SHEET NO 4 2531

KRAMER RD.