INDEX OF SHEETS

0 1

Sheet No. 2-2.1. Typical Sections and Details

Sheet No. 3-3.1 Estimate of Quantities Sheet No. 3A-3B Miscelloneous Quantities

Right of Way Plat

Sheet No. 5-5.3 Plan and Profile

Sheet No. 6-6-17 Standard Detail Drawings

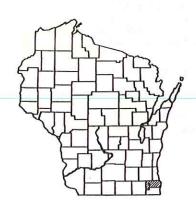
Sheet No. 7-7.6 Sign Plates

Structure Plans

Sheet No. - Computer Earthwork Data

Sheet No. 9-9.12 Cross Sections

TOTAL SHEETS = 60



DESIGN DESIGNATION

A.D.T. 4200 (2015) 5700 A.D.T. 675 D.H.V. (2015) 60-40 T. X ADT 10.5% DESIGN SPEED 35

CONVENTIONAL SIGNS

COUNTY LINE CORPORATE LIMITS PROPERTY LINE LOT LINE LIMITED EASEMENT EXISTING RIGHT OF WAY PROPOSED OR NEW R/W LINE SURVEY LINE SLOPE INTERCEPT ORIGINAL GROUND MARSH OR ROCK PROFILE

P.L. + 58.1 _____

1111111

—--:::---

MARSH AREA

WOODED OR SHRUB AREA

COMBUSTIBLE FLUIDS

UNDERGROUND UTILITIES

SERVICE PEDESTAL

CABLE MARKER

TELEPHONE POLE

TELEPHONE OR TELEGRAPI

ELECTRIC

POWER POLE

RAILROAD

STATE OF WISCONSIN DEPARTMENT OF TRANSPORTATION

PLAN OF PROPOSED IMPROVEMENT

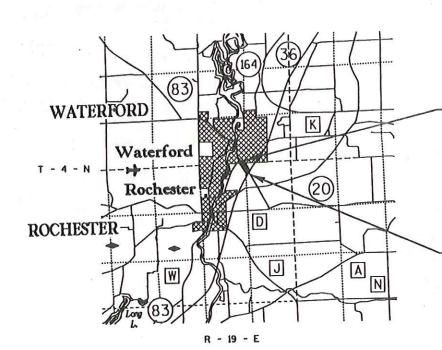
WATERFORD TO RACINE ROAD AS BUILT PLAN

(WATERFORD TO STH 36)

STH 20

RACINE COUNTY

STATE PROJECT NUMBER 2340-03-70



STATE PROJECT

2340-03-70

ZIGNEGO, PRIME CONTR.
CONC. PAVT, CONC C+G, GRADING, UNDERDRAIN

BARRICAGE FLASHER TRAFFIC CONTROL

CENTURY FENCE 4" EPOXY, STOPLINE, CURB RAMP, CROSSWALK

CORNELIUS CONTRACTORS STORM SEWER, INLETS, MANHOLES

KUEHNE, LANDSCAPE

SILT FENCE, FERTILIZER, SOD MIRRS TREE SERVICE

SAWING PAYNE & DOLAN

BEGIN PROJECT 2340-03-70 ASPHALTIC SURFACE

STA. 80+16 Y=281,500 X=2,480,000

PROJECT ENGINEER: DOUG CAIN SEE PROJECT DIARY FOR PROJECT PERSONNEL

, DIARY No. 95015

END PROJECT 2340-03-70

STA. 99+86

STATE OF WISCONSIN DEPARTMENT OF TRANSPORTATION

FEDERAL PROJECT

PROJECT

STP 065(9)

CONTRACT

PREPARED BY HENFERT Surveyor R. GUTIERREZ District Exominer R. CECH District Supervisor Prol. Day, Engineer R. CALKING C.O. Examiner

APPROVED FOR DISTRICT OFFICE

Lagel Burmester (Signature)

APPROVED:

PATE: 7/28/94

STATE DESIGN ENG. FOR HWYS

ALL COORDINATES ARE REFERENCED TO THE WISCONSIN COORDINATE SYSTEM, SOUTH ZONE. TOTAL NET LENGTH OF CENTERLINE = 0.373 MI. RURAL

EXISTING CULVERT

PROPOSED CULVERT

CULVERT (Profile View)

EXISTING TYPICAL SECTION

STANDARD DETAIL DRAWINGS

S.D.D. NUMBER 8A5-9a, b 8A5-9d 8B6-3	TITLE HALET COVERS HALET & MANHOLE COVERS MANHOLES, TYPE 1
8C1-4 8C5-1 8D1-11	INLETS, TYPE 1, 2, & 3 SNLETS, TYPE 8, 9, 10, & 11 CONCRETE CURB, CONCRETE CURB & GUTTER, & PAVEMENT THES
8D5-8 8E9-4- 8F1-10a 13C1-9	CURB RAMPS SALT FENCE APRON ENDWALLS FOR CULVERT PIPE CONCRETE PAVEMENT LONGITUDINAL JOINTS & PAVEMENT THES
13C4-10	NON-RENFORCED CONCRETE PAVEMENT
13013-1	DOWELED NON-REINFORCED CONCRETE PAVEMENT (TRANSVERSE JOINTS SPACED AT 20 AND NORMAL
15C2-2	BARRICADES AND TRAFFIC CONTROL FOR ROAD CLOSURES
8 D18-16 8 D15-14 15C8-50	NOAD CLUSTIES PAVEMENT MARKING (MAINLINE & INTERSECTIONS) LANDMARK REFERENCE MONUMENTS AND COVERS EDGEDRAIN OUTLET EDGEDRAIN

GENERAL NOTES

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

ALL TRENCHES, HOLES OR OPENINGS BELOW SUBGRADE RESULTING FROM THE ABANDONMENT OR REMOVAL OF EXISTING STRUCTURES OR TANKS, THE GRUBBING OF TREES OR STUMPS, OR THE INSTALLATION OF CONDUIT UNDER ROADWAYS SHALL BE BACKFILLED WITH GRANULAR BACKFILL.

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

NO TREES OR SHRUBS ARE TO BE REMOVED UNLESS INDICATED FOR REMOVAL BY THE ENGINEER.

TOPSOIL, FERTILIZER AND SOD SHALL BE PLACED ON ALL DISTURBED AREAS, EXCLUSIVE OF THE AREA OCCUPIED BY THE NEW PAVEMENTS, SIDEWALKS AND RELATED STRUCTURES.

A VERTICAL SAW OUT SHALL BE MADE THROUGH EXISTING DRIVEWAYS, SIDEWALKS AND PAVEMENTS AT THE REMOVAL LIMITS. THE COST OF SAWOUTTING SHALL BE PAID FOR UNDER THE BID ITEM "SAWING EXISTING PAVEMENT."

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

CURB RAMPS FOR HANDICAPPED PERSONS SHALL BE CONSTRUCTED WHERE SHOWN ON THE PLANS OR AS DIRECTED BY THE ENGINEER.

USE HALF-INCH EXPANSION JOINT FILLER WHERE NEW CONCRETE WILL ABUT EXISTING IN SIDEWALKS AND DRIVEWAYS.

ASPHALTIC SURFACE, WHEN INDICATED ON THE PLANS, SHALL CONSIST OF COURSES AS FOLLOWS UNLESS OTHERWISE NOTED:

2 1/2" LOWER LAYER 1 1/2" SURFACE LAYER

1 2 LOWER LAYER

LANDMARK REFERENCE MONUMENTS SHALL BE CONSTRUCTED WITH A CONCRETE DEPTH OF 4-FEET.

ELEVATIONS FOR UNDERDRAIN TO BE DETERMINED BY THE ENGINEER IN THE FIELD. UNDERDRAIN SHALL DISCHARGE INTO STORM SEWER INLETS.

STATE PROJECT NUMBER 2340-03-70 SHEET NO 2.0

TYPICAL SECTIONS

STH 20

RACINE COUNTY

UTILITIES



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

CALL DIGGERS HOTLINE 1-800-242-8511

TOLL FREE

(414/259-1181 MILWAUKEE METRO) RIS. STATUTE 182.0175 (1974) REQUIRES MIN. OF 3 WORK DAYS NOTICE BEFORE YOU EXCAVATE.

WISCONSIN NATURAL GAS CO. 201 IST STREET RACINE, WI 53403 ATTN: L.E. EASTMAN (414)-637-7681

WISCONSIN ELECTRIC POWER CO. 7815 NORTHWESTERN AVE. RACINE, WI. 53406 ATTN: JERRY LONDRE (414)-886-7032

SOUTHEAST TELEPHONE COMPANY 311 ELIZABETH STREET P.O. BOX 190 WATERFORD, WI. 53185 ATTN: DONALD HEWITT (4)4)-534-5101

MARKEUS CABLE 254 WINNEBAGO DRIVE P.O. BOX 1197 BURLINGTON, WI, 53105 ATTN: EVERETT BURROWS (414) 763-8158

VILLAGE OF WATERFORD (WATER DISTRIBUTION) 123 N. RIVER STREET WATERFORD, WI. 53185 ATTN: RANDY NIEWOLNY (414) 534-3980

WESTERN RACINE COUNTY SANITARY DISTRICT 1020 N. RIVER ROAD P.O. BOX 177 ROCHESTER, WL 53167 ATTN: STEVE EMOND (414) 534-6237



*		\mathcal{C}	<u>C</u> () #1	3	
Gar P				Item Description	Contract Price	Increase (Decrease)
		i	*	Finishing Roadway	750. 00	750.00
			<u> </u>	Concrete Pavement, 8- Inch	16.30	(5,705.00)
				HES. Concrete Pavement 8-Inch		
				Mobilization		3,900.00
				Traffic Control, Drums	0.55	1,650.00
				Traffic Control, Signs	0,50	237.50
		· · · · · · · · · · · · · · · · · · ·		Lane Closures		4,400,00
01010	90716	-2627	Days	Traffic Control, Detour Signs	0.45	(1,182.15)
· · · · · · · · · · · · · · · · · · ·		•		Total Estimated Increase	\$	10,455.35
·				· · · · · · · · · · · · · · · · · · ·		

Group Item Quantity Unit Item Description Contract Increase Price Oberrease

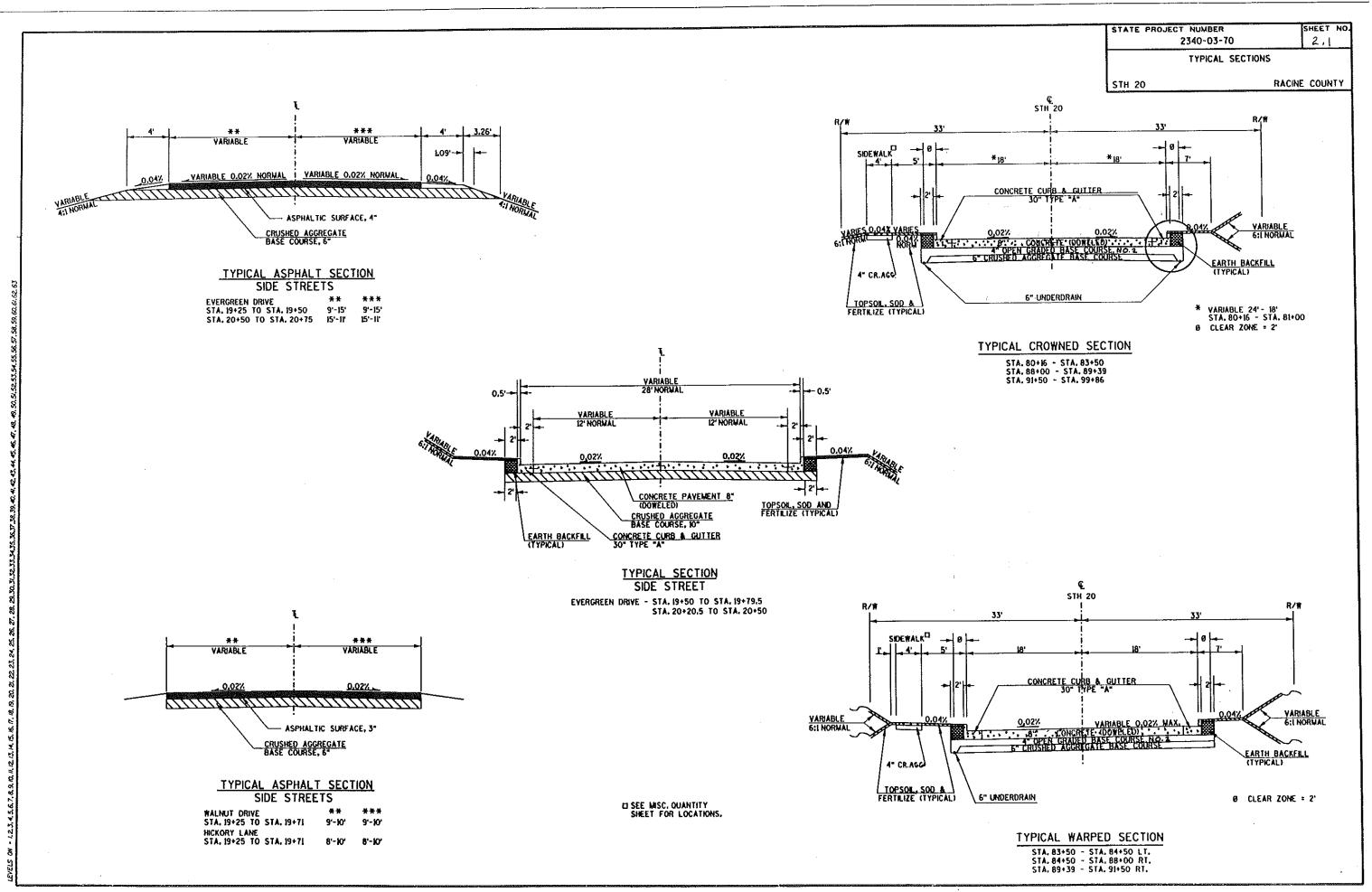
010/0 20801 2725 CY. Borrow Excavation 6.00 16,350.00

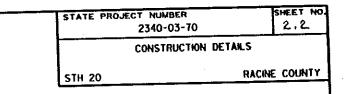
90/0/0 60829 80 L.F. Reinforced Concrete Pipe, 75.00 6,048.00

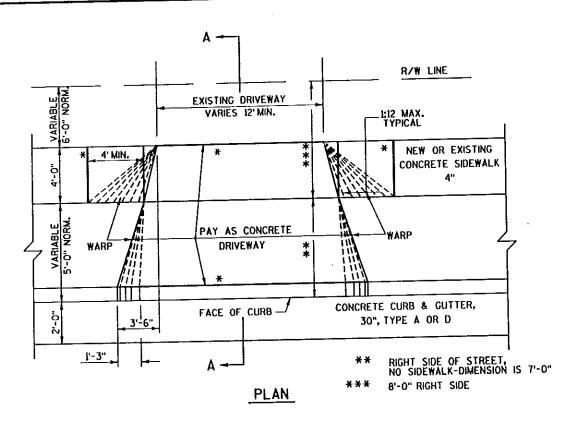
Class III, Storm Sewer, 24- Inch

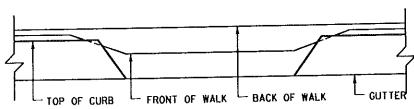
010/0 64497 0.37 MI Locating No Passing Zones 710.80 263.00

Total Estimated Increase & 22,661.00

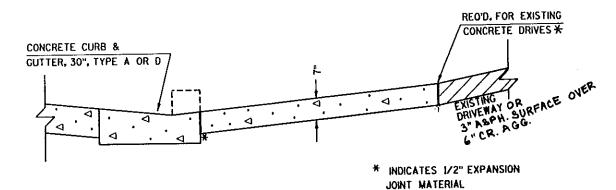






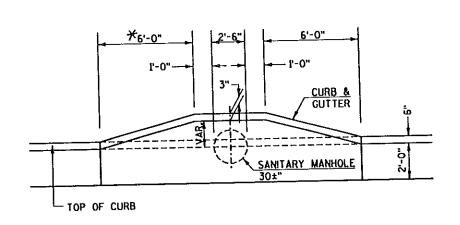


ELEVATION



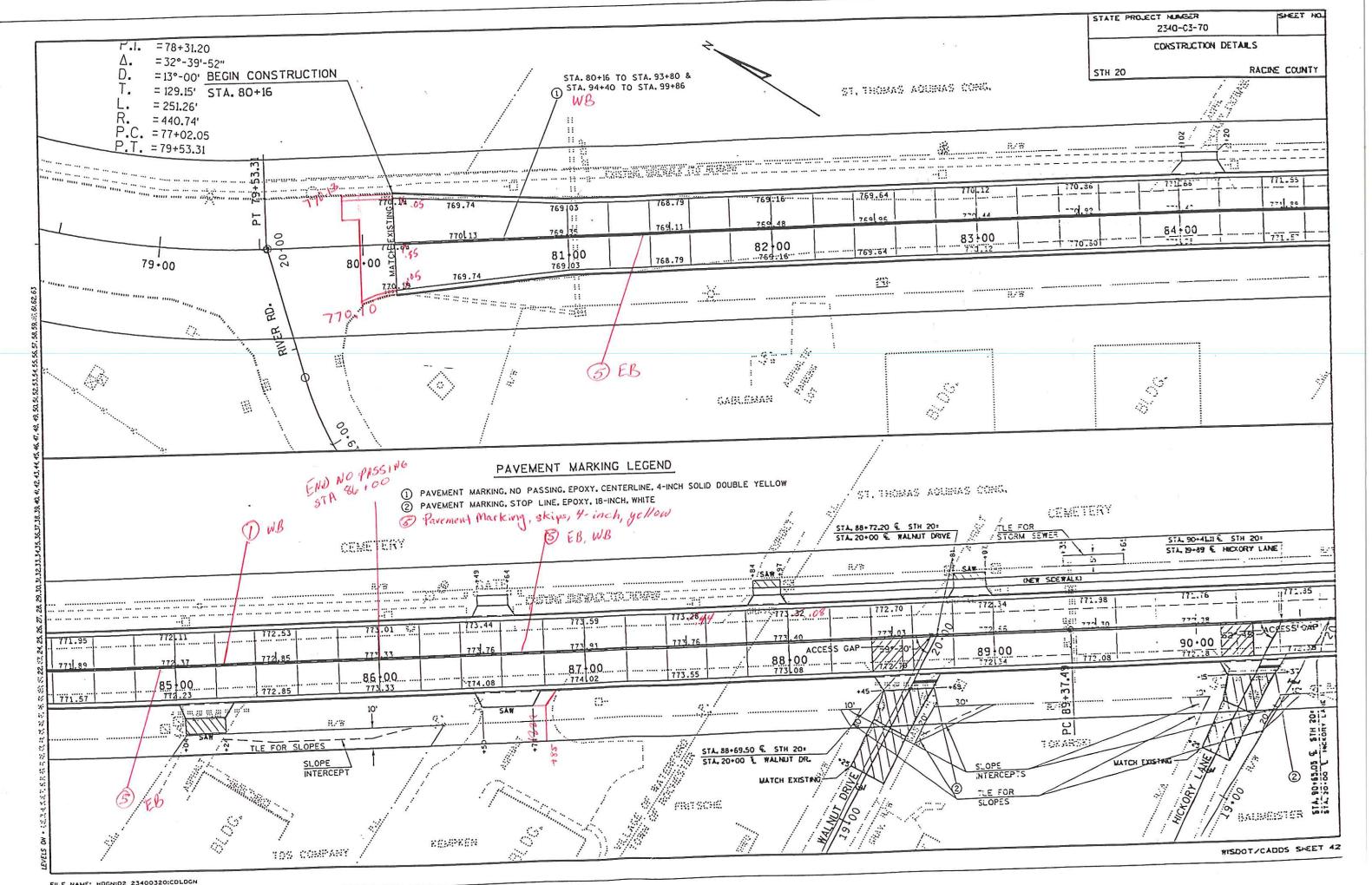
SECTION A-A

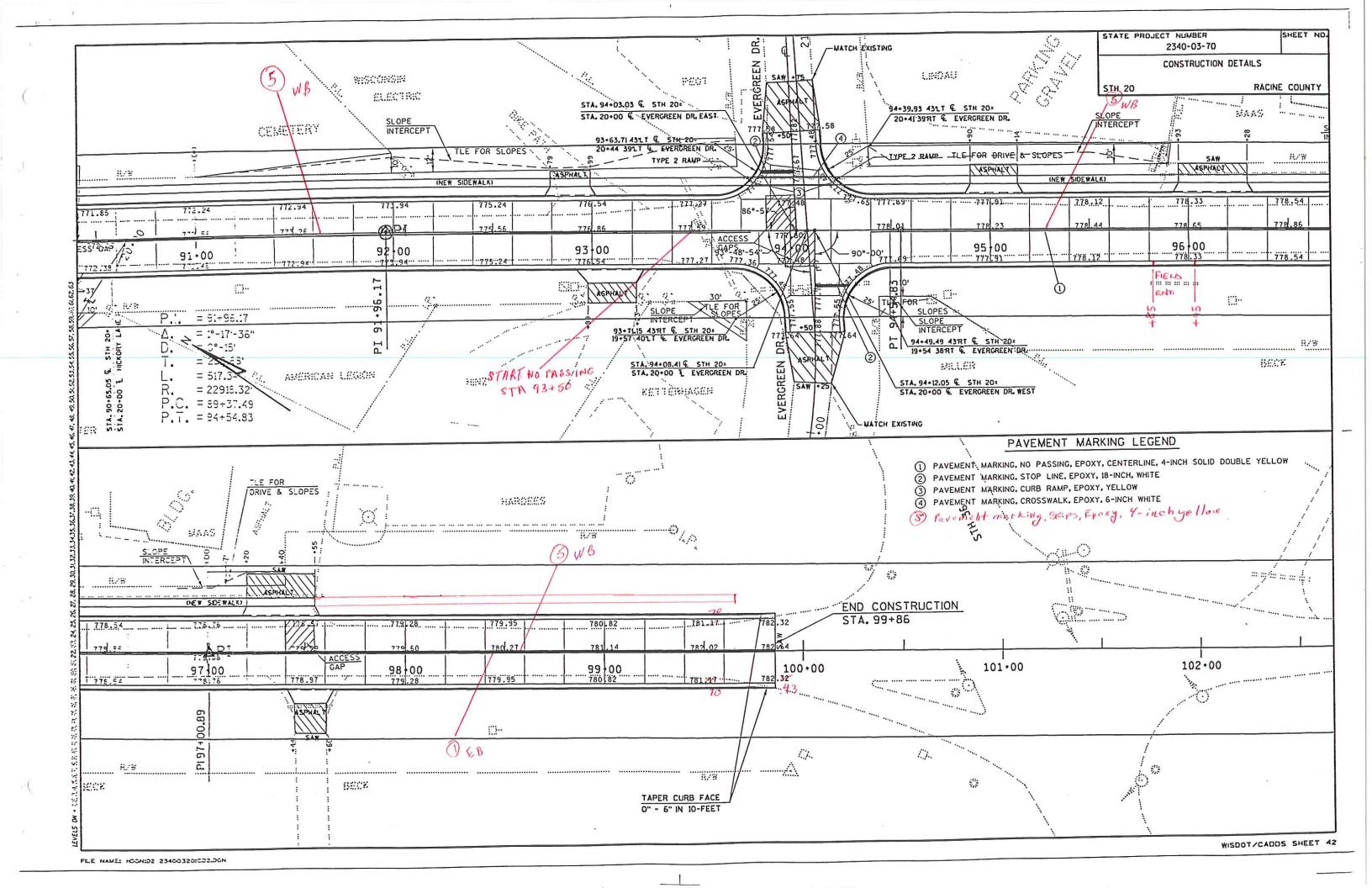
DRIVEWAY DETAIL

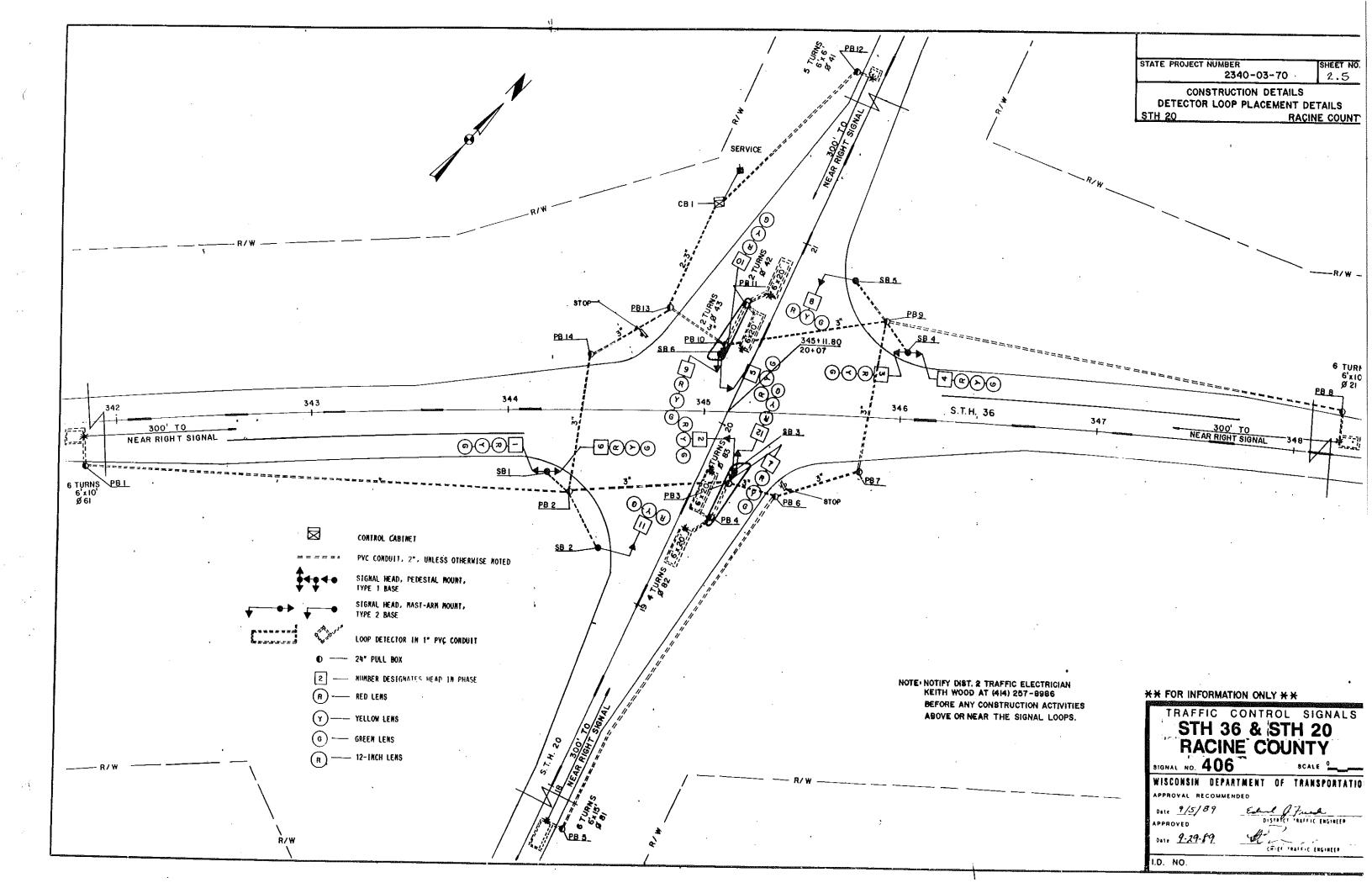


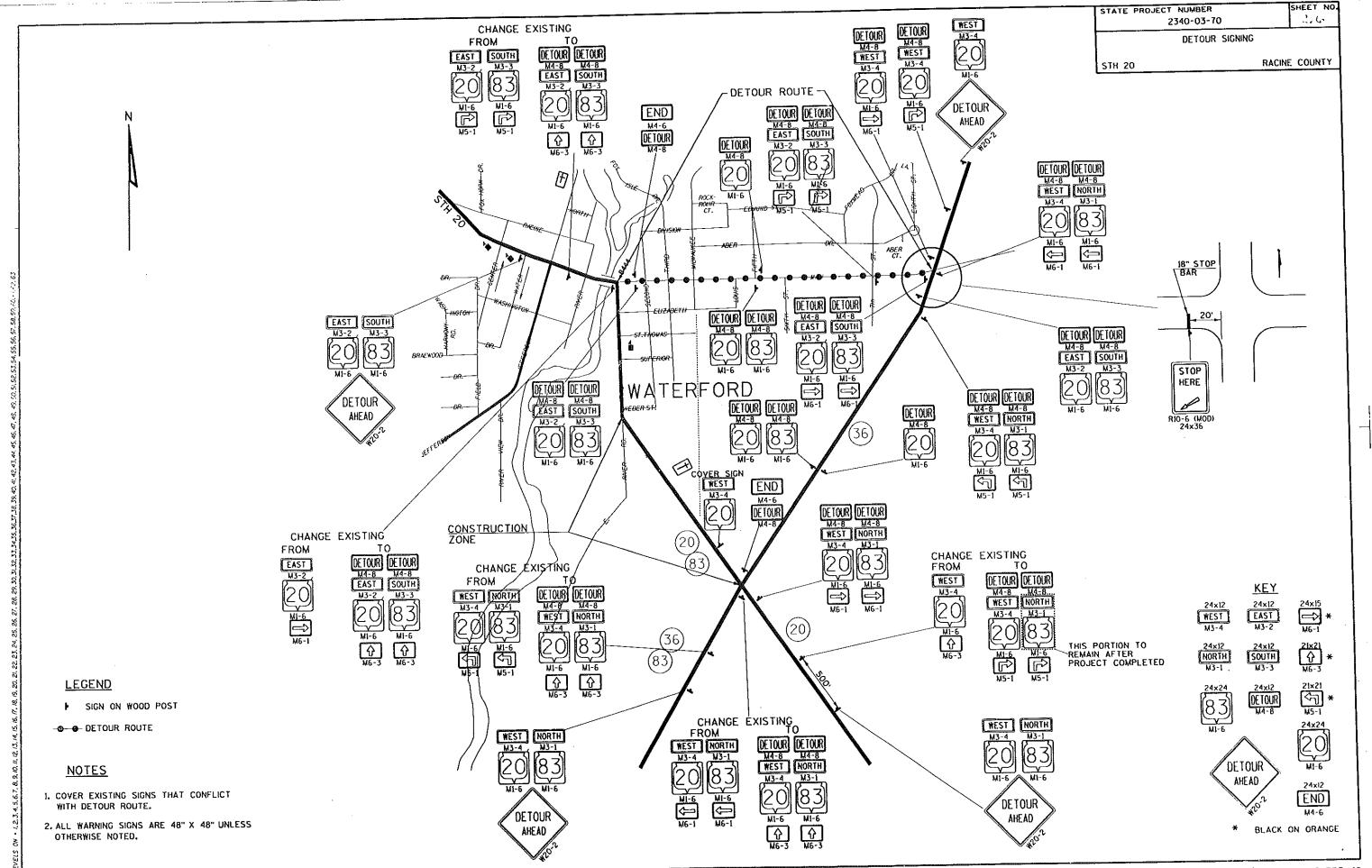
TYPICAL CURB & GUTTER AT SANITARY MANHOLES

STA. 86+16 16'LT. ** STA. 94+26 37'RT. -(ADJUST TAPER LENGTH TO STA. 97+78 20'LT. MATCH INL. 6C AT CURBLINE)









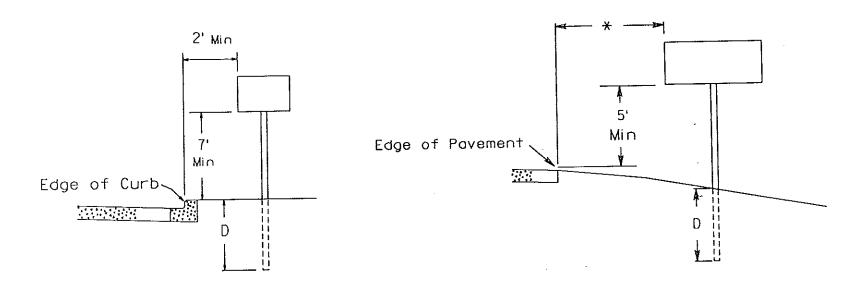
SHEET NO. STATE PROJECT NUMBER 2340-03-70 TRAFFIC CONTROL RACINE COUNTY STH 20 ROAD CLOSED CONSTRUCTION AHEAD AHEAD CLOSED ABER CT. AHEAD , WATERFORD ROAD CLOSED **LEGEND** THRU TRAFFIC R11~4 60" X 30" TYPE III BARRICADE 8' LONG
WITH 2 TYPE A WARNING LIGHTS (36)CLOSED 1500 FT TYPE III BARRICADE 8'LONG
WITH 2 TYPE A WARNING LIGHTS WITH SIGN CLOSEQ ,500 FT A WARNING LIGHT TYPE A ROAD CLOSED TO ▶ SIGN ON WOOD POST THRU TRAFFIC (83)<u>NOTES</u> ROAD RII-4 60" X 30" 1. ALL WARNING SIGNS ARE 48" X 48" UNLESS OTHERWISE NOTED. CONSTRUCTION AHEAD CLOSED (20) ROAD CONSTRUCTION AHEAD

2 40 03 70

2.8

URBAN AREA

RURAL AREA

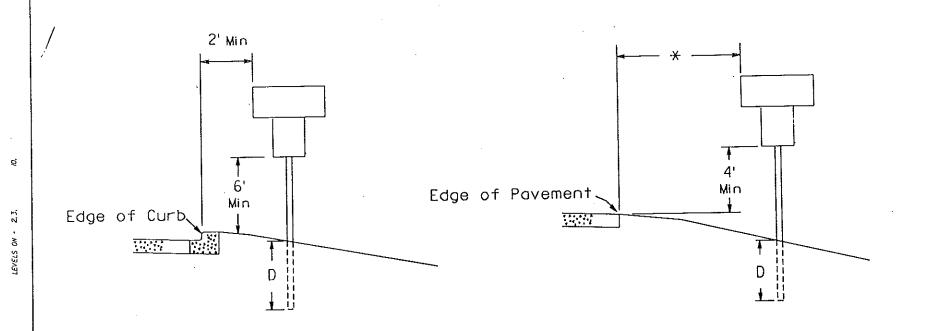


GENERAL NOTES

1. Sign assemblies wider than 4 feet or larger than 20 sq. ft. shall be mounted on multiple posts. See plate A4-4 for typical installations.

POST EMBEDMENT DEPTH

Area of Sign	
Installation	D
(Sq.Ft.)	(Min)
20 or Less	4'
Greater than 20	5'



* 12 feet minimum from edge of pavement. Where there is a paved shoulder, 6' minimum from edge of paved shoulder, but at least 12 feet from edge of pavement.



DATE DRAWN 9-12-91 DATE REDRAMN

SHEET NO 2.9

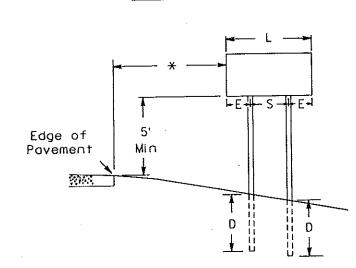
Ĭ,

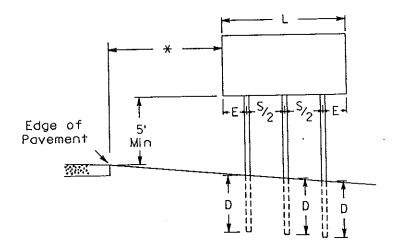
Edge of

Curb \

urban area

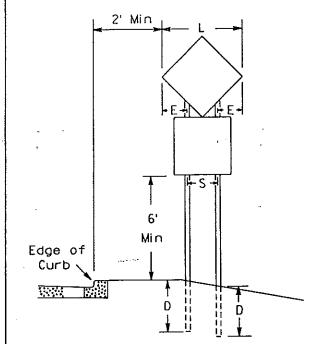
RURAL AREA

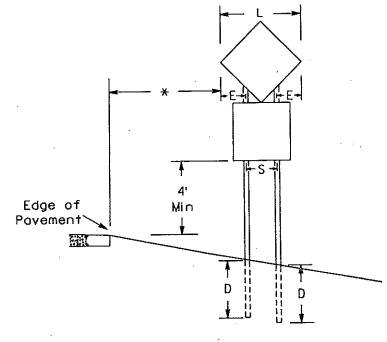




GENERAL NOTES

- 1. For 3 post installations, post spacing is S/2 and S must be greater than 7'-0"
- 2. For 4 post installations, post spacing is S/3 and S must be greater. than 10'-6"





* 12 feet minimum from edge of pavement.
Where there is a paved shoulder, 6'
minimum from edge of paved shoulder, but at
least 12 feet from edge of pavement.

DIAMOND SHAPED SIGNS													
L S E													
Less than 60"	20"	L/2 - 10											
60"72"	32"	L/2 - 16											
Greater than 72"	3 L/5	L/5											

SIGN SHAPE O (Two Post	THER THAN I						
L	S	E					
Less than 60"	L-24"	12"					
60" or more	3 L/5	L/5					

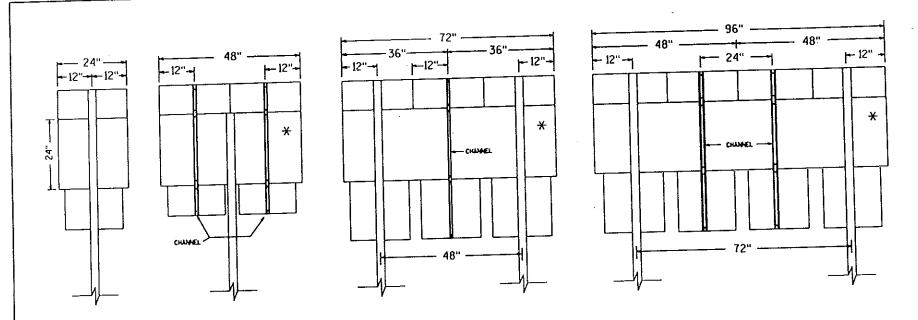
POST EMBEDMENT DEPTH

Area of Sign .	
Installation	` D
(Sq. Ft.)	(Min)
20 or Less	4۱
Greater than 20	5'

: AG	E DRAWN 6-3-87 DATE SETSAAN 10-1-91
TAC	E REVISED 11-6-92
	TYPICAL INSTALLATION OF TYPE II SIGNS ON MULTIPLE POSTS
_	WINDOWSK SERT OF THREE SHIPE A
	11/20/92 A4-4.3

A 0000 14000 SHEET (40)

STATE PROJECT NUMBER SHEET NO 2./0



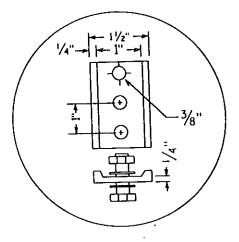
CHANNEL HARDWARE:

Aluminum Sign components: -1/4" $\times 3/4$ " bolt and 1/4" flat washers Plywood Sign Components: -1/4" \times $1^{1}/4$ " bolt and 1/4" flat washers

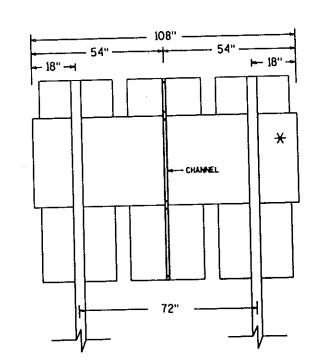
NOTES;

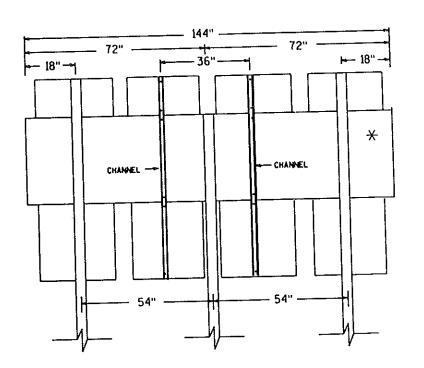
- 1. Post spacing shall be according to this detail but post embedment depth shall be in accordance with A4-4.
- 2. Channel material shall be as specified in Section 633 of Std. Specs. and weight shall be approx. 1.4 lbs/ft.
- 3. Base material for a multiple marker head panel (*) shall be one piece high density overlay plywood. All other materials within the assembly can be either plywood or aluminum.

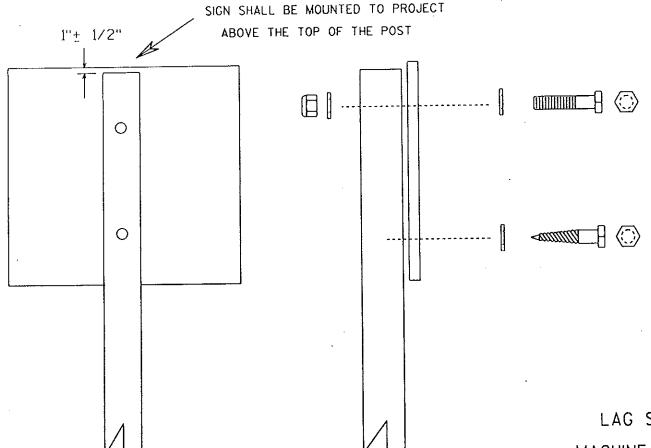
CHANNEL DETAIL



DATE DRAWN 6-3-87 DATE REDRAWN 10-3-91
DATE REVISED
TYPICAL PANEL INSTALLATION
FOR J TYPE ASSEMBLIES
WISCONSIN DEPT OF TRANSPORTATION
APPROVED (Jelly 7 5 well
State Traffic Engineer
DATE 11/5/9/ PLATE NO. 44-5.3







Nuts, bolts and lags used for mounting signs shall have hexagonal heads and shall be either:

- a. Hot dip or mechanically galvanized in accordance with ASTM Designation: A 153, Class D, or
- b. Cadmium plated in accordance with ASTM Designation: B 766 TYPE 3, Class 12, or
- c. Electro-galvanized in accordance with ASTM Designation: B 633, TYPE III, SC 3.

Threads on bolts and nuts shall be manufactured with sufficient allowance for the cadmium plate or galvanized coating to permit the nuts to run freely on the bolts.

LAG SCREWS - 3/8" X 3"

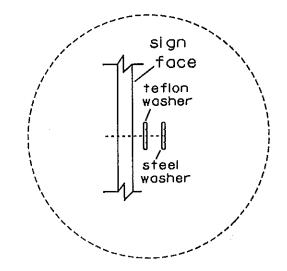
MACHINE BOLTS - 1/6" X 6-1/2" or 7" Length w/ nuts

WASHERS - 1" O.D. X $\frac{3}{8}$ " I.D. X $\frac{1}{16}$ " STEEL for signs 24x24 and smaller.

1-1/4" O.D. X $\frac{3}{8}$ " I.D. X $\frac{1}{16}$ " STEEL for signs 24x30 to 36x48.

1-1/2" O.D. X $\frac{1}{16}$ " I.D. X $\frac{1}{16}$ " STEEL for signs 48x48 and larger.

1-1/4" O.D. X $\frac{3}{8}$ " I.D. X .080 TEFLON for all Type H signs.



Washer Placement when Sign Has Type H Face DATE DRAWN 1-29-92 DATE REDRAWN ____

ATTACHMENT OF SIGNS TO WOOD POSTS

WISCONSIN DEPT OF TRANSPORTATION

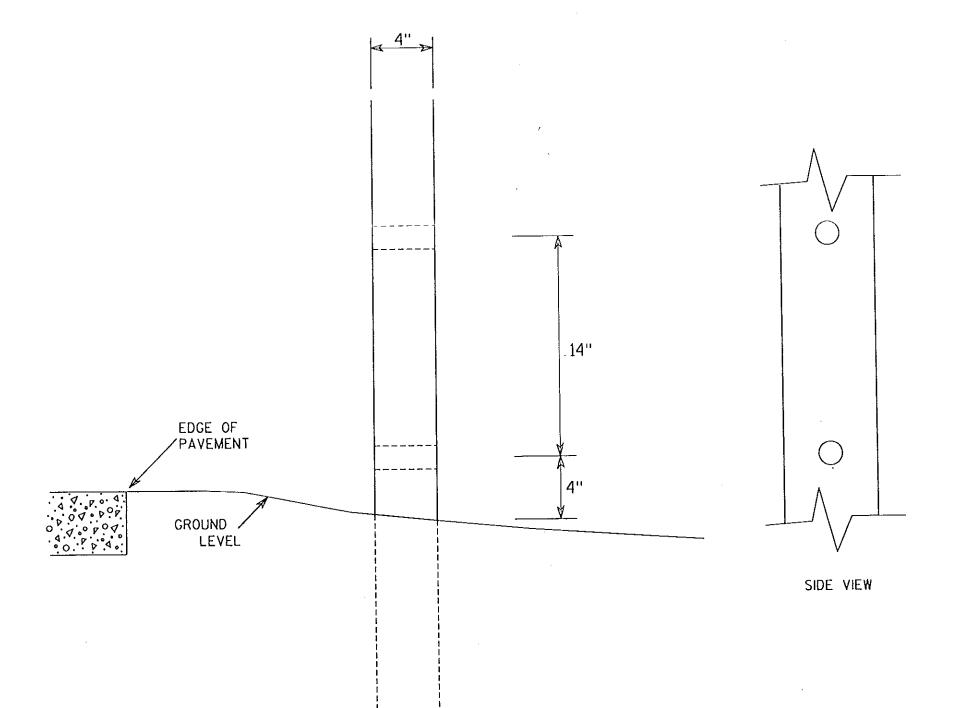
PPROVED (

DATE 2-1-92 PLATE NO.

STATE PROJECT NUMBER SHEET NO. 2.12

GENERAL NOTES

1. All 4x6 Wood Posts shall be modified by having two 11/2" diameter holes drilled perpendicular to the roadway centerline.



DATE DRAWN 11-1-91 DATE REDRAWN

DATE REVISED

4 X 6 WOOD POST

MODIFICATIONS

WISCONSIN DEPT OF TRANSPORTATION

APPROVED

STOTAL LIGHT S. LOCASE

PLATE NO. A4-11.1

Wisdows Carlot Server

E S T Q U A N											in de vice de la constant de la cons														·	
ANTITIES											en experience									SH	IEET	3	S - C	9		
IMATE OF QUA	2340-03-70 QUANTITY	30.00	30.00	30.00	1.00	7,847.00	19.70	1.00	3,220.00	1,800.00	10.00	100.00	7,313.00	293.00	2.00	1.00	3,968.00	3,128.00	913.00	270.00	203.00	8.00	10.00	9-00	1.00	8.00
E S T I E	TOTAL	30.00	30.00	30.00	1.00	7,847.00	19.70	1.00	3,220.00	1,800.00	10.00	100.00	7,313.00	293.00	2,00	1.00	3,968.00	3,128.00	913.00	270.00	203.00	8.00	10.00	9.00	1.00	8.00
	UNIT	I.D.	I.D.	s.Y.	EACH	C.Y.	STA.	L.S.	TON	NOT	GAL.	TON	s.Y.	S.Y.	ЕАСН	EACH	L.F.	S.F.	F.	u. L		ЕАСН	EACH	EACH	EACH	EACH
08/08/94	ITEM DESCRIPTION	CLEARING	GRUBBING	REMOVING CONCRETE SIDEWALK	REMOVING INLETS	UNCLASSIFIED EXCAVATION	PREPARATION OF FOUNDATION FOR CRUSHED AGGREGATE BASE COURSE, OPEN GRADED	FINISHING ROADWAY	CRUSHED AGGREGATE BASE COURSE	CRUSHED AGGREGATE BASE COURSE, OPEN GRADED, NUMBER 2	ASPHALTIC MATERIAL FOR TACK COAT	ASPHALTIC SURFACE	CONCRETE PAVEMENT, 8-INCH	CONCRETE DRIVEWAY	CONCRETE PAVEMENT GAPS	REINFORCED CONCRETE APRON ENDWALLS FOR CULVERT PIPE, 18-INCH	CONCRETE CURB AND GUTTER, 30-INCH, TYPE A	CONCRETE SIDEWALK, 4-INCH	REINFORCED CONCRETE PIPE, CLASS III, STORM SEWER, 12-INCH	REINFORCED CONCRETE PIPE, CLASS III, STORM SEWER, 15-INCH	REINFORCED CONCRETE PIPE, CLASS III, STORM SEWER, 18-INCH	MANHOLES, TYPE 1	INLETS, TYPE 1	INLETS, TYPE 8	RECONSTRUCTING MANHOLES	MANHOLE COVERS, TYPE J
DATE (ITEM	20102	20105	20406	20416	20503	21132	21301	30404	30420	40204	41101	41508	41531	41575	52262	60123	60204	60825	60826	60827	61110	61121	61123	61128	61151

																				· ·	St	IEE.	Т З	3.1				
2340-03-70 QUANTITY 10.00	90.9	7.00	3,590.00	1.00	1.00	2.00	27.00	32.00	6,013.00	415.00	415.00	415.00	4.00	6,013.00	1.00	1.00	1.00	290.00	876.00	440.00	4,012.00	58.00	88.00	36.00	3,323.00	245.00	1.00	8,833.00
TOTAL 10.00	90.9	7.00	3,590.00	1.00	1.00	5.00	27.00	32.00	6,013.00	415.00	415.00	415.00	7.00	6,013.00	1.00	1.00	1.00	290.00	876.00	440.00	4,012.00	58.00	88.00	36.00	3,323.00	245.00	1.00	8,833.00
UNIT	ЕАСН	ЕАСН	и. "	 	L.S.	ЕАСН	NOT	MGAL	s.Y.	L.F.	L. F.	l.F.	CWT.	s. ' .	L.S.	L.S.	L.S.	DAYS	DAYS	DAYS	ï.		F	r. F.	S.Y.		L.S.	DAYS
ITEM DESCRIPTION INLET COVERS, TYPE	A INLET COVERS, TYPE MS	ADJUSTING MANHOLE COVERS	PIPE UNDERDRAIN, 6-INCH	MAINTENANCE AND REPAIR OF HAUL ROADS	MOBILIZATION	LANDMARK REFERENCE MONUMENTS	CALCIUM CHLORIDE SURFACE TREATMENT	WATER	TOPSOIL	SILT FENCE, DELIVERED	SILT FENCE, INSTALLED	SILT FENCE MAINTENANCE	FERTILIZER, TYPE B	SODDING	FIELD OFFICE, TYPE A	FIELD LABORATORY	TRAFFIC CONTROL	TRAFFIC CONTROL, BARRICADES, TYPE III	TRAFFIC CONTROL, WARNING LIGHTS, TYPE A	TRAFFIC CONTROL, SIGNS	PAVEMENT MARKING, EPOXY, 4-INCH	PAVEMENT MARKING, STOP LINE, EPOXY, 18-INCH	PAVEMENT MARKING, CROSSWALK, EPOXY, 6-INCH	PAVEMENT MARKING, CURB RAMP, EPOXY	GEOTEXTILE FABRIC, TYPE DF	SAUING EXISTING PAVEMENT	TRAFFIC CONTROL, DETOUR	TRAFFIC CONTROL, DETOUR, SIGNS
ITEM 61161	61170	61182	61201	61801	61910	62101	62301	62401	62501	62815	62816	62817	93629	63101	64201	64210	64301	64318	64321	64326	90779	64437	64457	97779	64503	64601	90715	90716

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				ALL ITEMS LISTED ON THIS SHEET ARE GROUP	STATE PROJECT NUMBER 2340-03-70	SHEET NO.
		CRUSHED AGGREGATE BASE COURSE	M I S C Q U A N	CODE OLO UNLESS OTHERWISE SHOWN	MISCELLANEOUS C	QUANTITIES RACINE COUNTY
	CLEARING & GRUBBING LOCATION CLEARING GRUBBING STASTA. I.D. I.D. 80.16 - 86.00 X X 86.00 - 87.00 30 30 87.00 - 99.86 X X CONCRETE DRIVEWAY (T-INCH)	LOCATION TON S.T.H. 20 Sta 80·16 - 81·00 133 81·00 - 83·50 340 83·50 - 84·50 144 84·50 - 88·00 504 88·00 - 89·39 190 89·39 - 91·50 304 91·50 - 99·86 1140 WALNUT DRIVE 41 HICKORY DRIVE 40 EVERGREEN DRIVE 19·25 - 19·79.5 108* 20·20.5 - 20·75 110* SIDEWALK 45	SAWING EXISTING PAVEMENT LOCATION L.F DRIVEWAYS 85.14 Rt 20 86.62 Rt 34 87.90 Lt 13 88.89 Lt 16 96.10 Lt 35 97.37 Lt 35 97.52 Rt 16	LOCATION STH 20 STA - STA 80•16 - 93•80	YELLOW WHITE L.F. L.F. 2728	
	EUCATION S.Y. 84-11 Lt. 24 85-14 Rt. 20 86-56 Lt. 15 86-62 Rt. 20	P.E.'S 121 *INCLUDES RADII	97+52 Rf 16 STH 20 99+86 Rf 35 EVERGREEN DRIVE 19+25 18 20+75 23	94+40 - 99+86 EVERGREEN DRIVE 19+25 - 19+73 20+27 - 20+75 20+25 Lt 20+25 Rt	1092 96 96	18 18
59.	87.90 Lt. 14 88.57 Rt. 20 88.89 Lt. 16 90.26 Rt. 18 92.89 Lt. 20 93.11 Rt. 20 95.00 Lt. 24 96.10 Lt. 34	REMOVING INLETS LOCATION EACH STATION 95.86 , 41'Lt. 1 REMOVING INLETS		WALNUT DRIVE HICKORY DRIVE EVERGREEN DRIVE (WE) EVERGREEN DRIVE (EA)	ST) 20 ST) 20	
	97.37 Lt. 34 97.52 Rt. 14 CONCRETE PAVEMENT, 8-INCH (DOWELED) LOCATION STA - STA S.Y. S.T.H. 20 80.16 - 81.00 355 81.00 - 94.08 4651 94.08 - 99.86 2055	LANDWARK REFERENCE MONLMENTS* LOCATION DESCRIPTION EACH STA - STA 91-77.78 PI 5	CONCRETE SIDEWALK, 4-INCH GROUP LOCATION S.F. CODE STA - STA OLO 87.97 Lt - 88.81 Lt 336 88.97 Lt - 92.79 Lt 1528 92.99 Lt - 93.78 Lt 316 94.24 Lt - 94.88 Lt 256 95.12 Lt - 95.93 Lt 324 OLO 96.28 Lt - 97.20 Lt 368	1	OPEN GRADED, BASE COURSE N.O. 2 TON S 91 234 85 296 130 178	OF FOUNDATION D AGGREGATE OPEN GRADED STA 0.84 2.5 1.00 3.5 1.39 2.11 8.36
11.2.G.H.S.K.T.R.R.20.	EVERGREEN DRIVE 19+50 - 19+84 126* 20+16 - 20+50 126* *INCLUDES RADII CONCRETE PAVEMENT, 8-INCH REMOVING SIDEWALK LOCATION (STA - STA) S.Y.	*MONLMENTS SHALL BE COST-IN PLACE AND SHALL BE 48-INCH MINIMUM DEPTH. LANDWARK REFERENCE MONLMENTS* PIPE GEOTEXTILE UNDERDRAIN FABRIC LOCATION 6-INCH TYPE DF STA - STA L.F. S.Y.	CONCRETE CLRB & GUTTER, 30-INCH, TYPE A LOCATION L.F. 80-16 Lt - 93-63 Lt 1347 80-16 Rt - 93-72 Rt 1356 94-40 Lt - 99-86 Lt 546 94-50 Rt - 99-86 Rt 536 EVERGREEN DRIVE	LOCATION DRIVEWAYS & SIDE STREETS 85.14 Lt. 87.90 Lt. 88.57 Rt. (WALNUT 88.89 Lt. 90.26 Rt. (HICKERY 92.89 Lt. 93.11 Rt. 95.00 Lt. 96.10 Lt.	0.1	TIC SURFACE TON 3 1 18 1 14 2 5 3 4
VELS ON -	83-98 Lt - 84-24 Lt 12 86-45 Lt - 86-68 Lt 10 87-80 Lt - 87-97 Lt 8	81+16 - 99+86 L† 1870 1731 81+16 - 86+00 R† 484 448 87+50 - 99+86 R† 1236 1144	19.50 - 19.82 Lt & Rt 92* 20.18 - 20.50 Lt & Rt 91* *INCLUDES RADII	97.37 Lt. 97.52 Rt. EVERGREEN DRIVE 19.25 - 19.50 20.50 - 20.75	1.0 0.5 1.3 1.5	8 5 17 19

90+13 - 90+28 RT 93+88 - 94+03 LT 93+97 - 94+12 RT 97+40 - 97+55 LT

-FILE-NAME1-HIDSHIDE-2346032019TYLD6N-

ALL ITEMS LISTED ON THIS SHEET ARE GROUP CODE OID UNLESS OTHERWISE SHOWN STATE PROJECT NUMBER
2340-03-70

MISCELLANEOUS QUANTITIES

STH 20

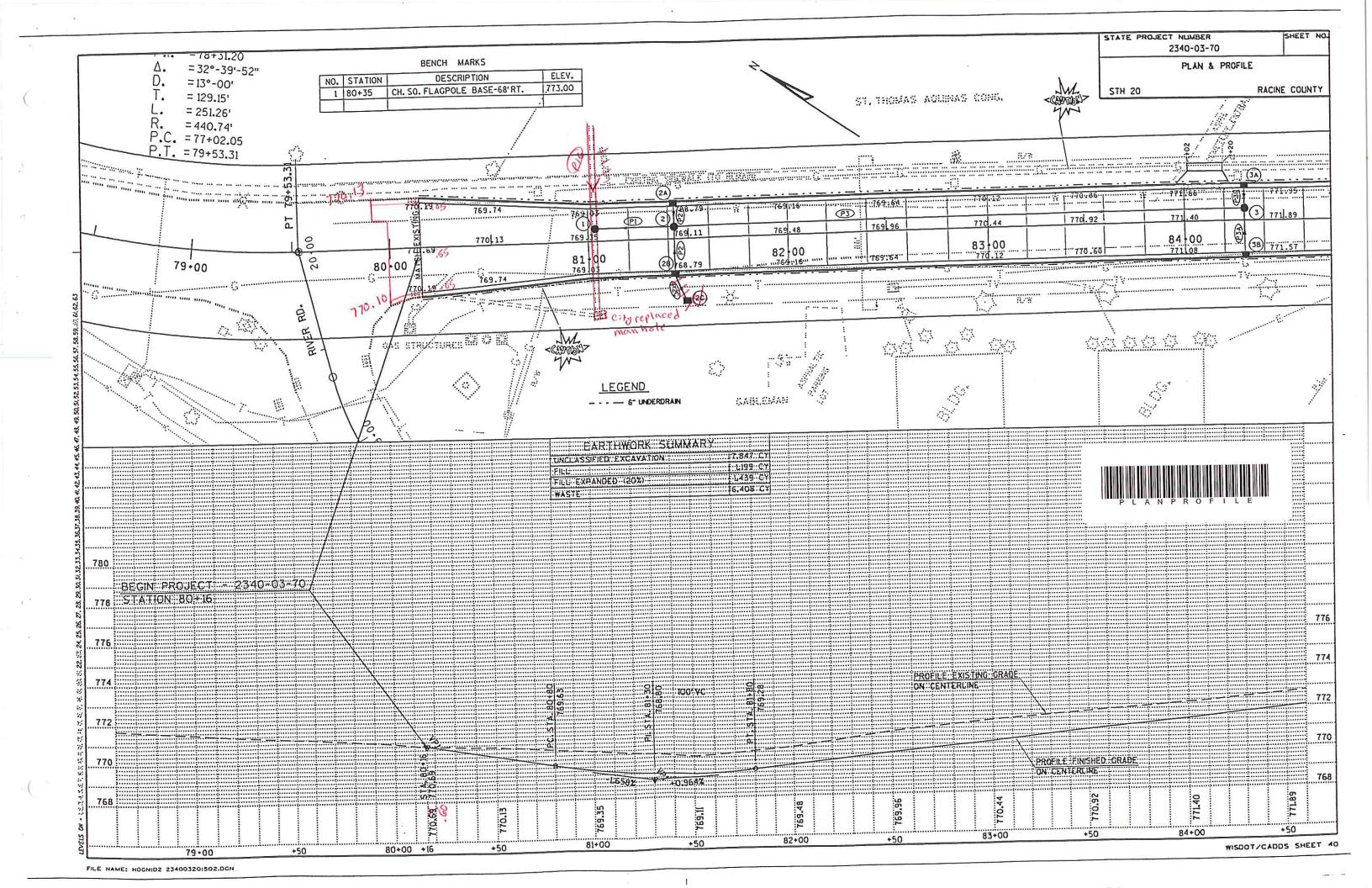
RACINE COUNTY

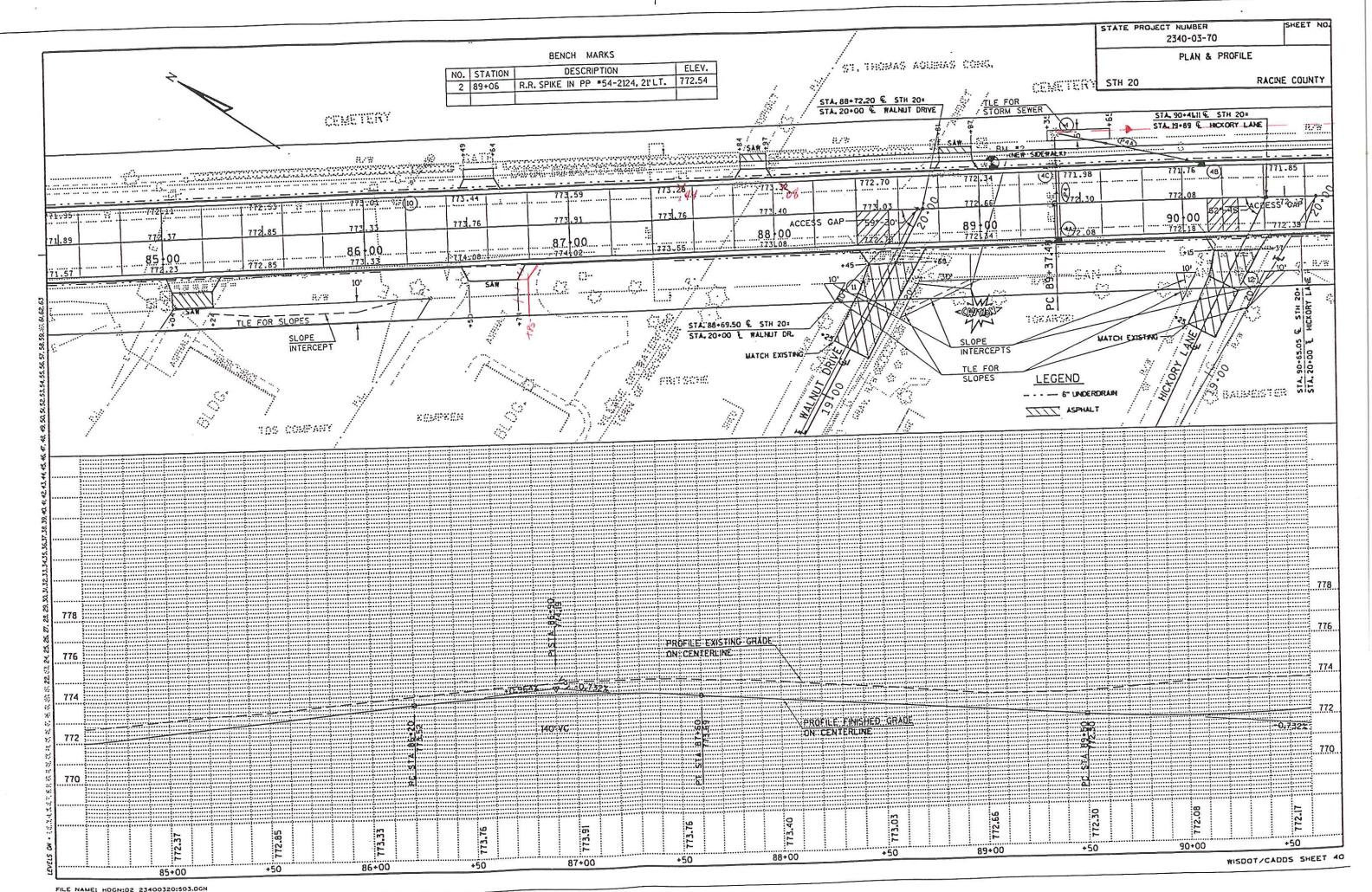
STORM SEWER R.C.C.P.

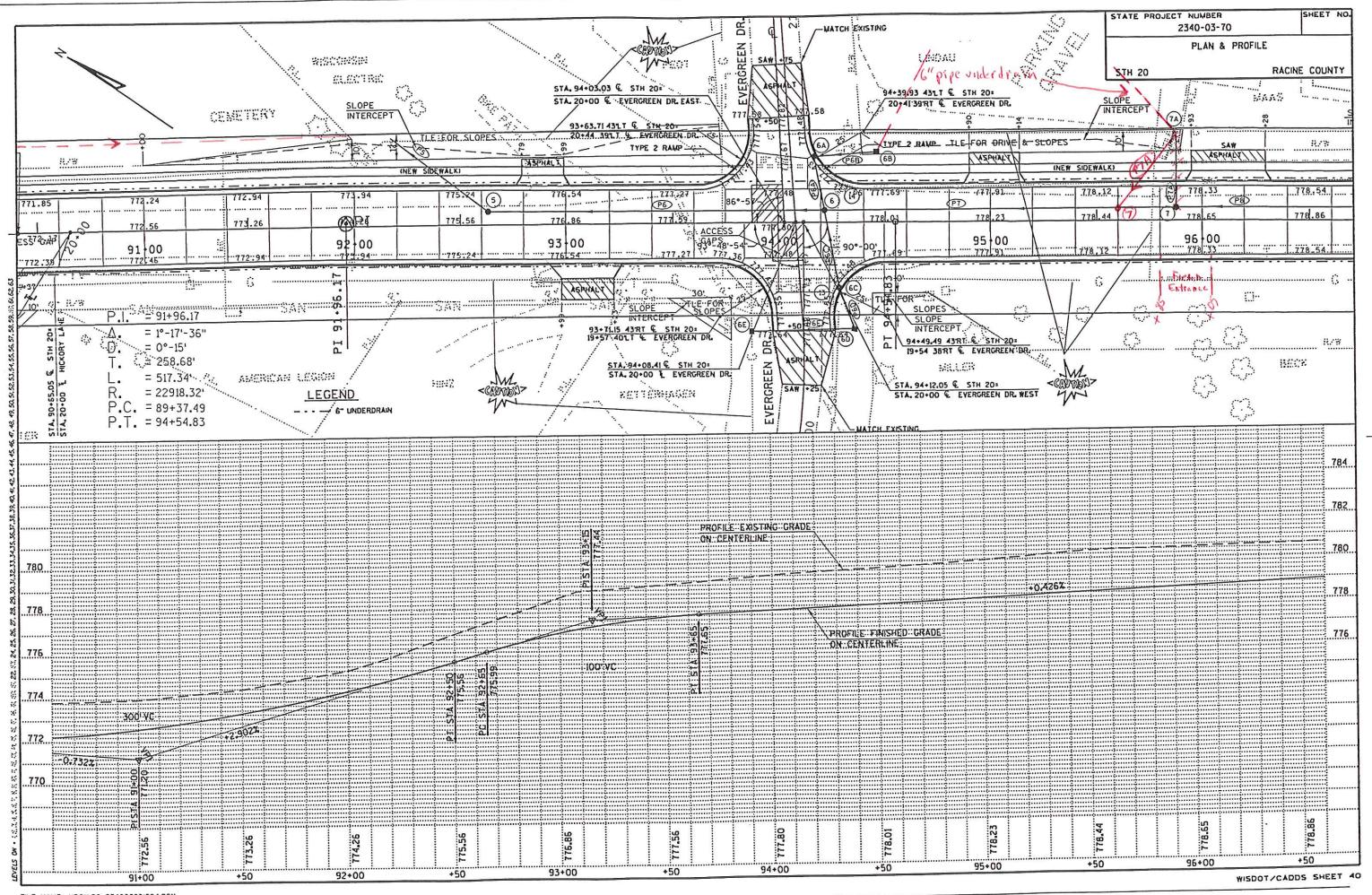
				EC	A TAU !	TC			STORM SEWER R.C.C.P.												
				MANHOLES	& TATE	.13				(PA.)	(EA.)								DYCOLL	CI ACC	REMARKS
	101/-		CTATION	LOCATION	/ea\	(BA)	(BA) (B	A \ CR	ATF A	DJUST	RE-	DEPTH	PIPE	FROM		DIAMETER		INLE	DISCH	CLASS	KENAN/2
	ART. STRU		SIAITON	M.H. INL	(en)	TAI	L LI TA	J. F	IFV.		CONSTRUC	T FT.	NO.	STR	STR	IN	LF	ELEV.	FTFA.		
ITE	oms • NP	NO.			. M.H.	YIAT.	1	7	69.1			4.43	EXIST.								
		1	81 • 03	6'Lt.	Ţ		J		68.9			4.08	P1	2	1	18	36	764.1	764.0	III	
		2	81+43	6'Lt.	, A	4	J		68.6			3.80	P2A	2A	2	12	9	764.4		III	
		2A	81+43	18 'L		1			68.6			3.80	P2	2B	2	12	21	764.4		III	
		2B	81+43	18'F		Ţ		us 7				2.50	P2C	- 2C	2B	12	16		764.9		
		2C	81+50	33 'F	it.	8	100		71.6			4.00	P3	3	2	15	283	766.8		III	
		3	84+30	6'Lt.	1	20	J		71.4			3.80	P3B	3A	3	12	9	767.1		III	
		3A	84+30	18 'L		1						3.80	P3A	3B	3	12	21	767.0	766.9	III	
		3B	84+30	18 'F		. 1			71.2	X		3.00									VILLAGE OF WATERFORD
	NP (036)	10		14'Lt.	EXIST		EXIST.		73.2												W.R.C.S.D. SANITARY
	NP (040)	11		33'Rt.	EXIS		EXIST.		73.0	Χ											W.R.C.S.D. SANITARY
	NP (040)	12	90 + 27	35'Rt.	EXIS		EXIST.	- 1	73.1			13.2									
	98 - C. C.	4	89+39	35'Lt.	EXIS	Γ.	EXIST.					2.85	P4	44	4	12	49	768.6	768.5	III	
		44	89+39	18 'F	₹t.	1			71.9				P4A	4B	4	12	70		768.5		
		4B	90+10	18'1	_t.	1			71.6			2.50			-1-						
		4C	89+39	19'1	_t.	EXIST	. E			REMOVE		4 77	DE	5	OUTLET		50	770.7	770.2	III	A.E.W. REO'D
		5	92+63	6'L†.	1		J		775.8		• • •	4.33	P5			18	153		770.7		
		6	94+22	6'Lt.	1		J		177.7			4.33	P6	6	5	12	22		773.2		
		6A	20+30		Rt.TL	1		A 7	777.1			3.40	P6A	6A	6		27		773.3		
		6B	94+46	35 '1		8		MS 7	777.2			2.00	P6B	6B	64	12			773.2	4 55,055,055,0	
		6C	19.69		Rt.TL	1		A 7	777.2			3.40	P6C	6C	6	12	34		773.3		
		6D	19.50	24'		8		MS 7	776.3			2.08	P6D	6D	6C	12	18		774.2		
		6E	19.50	24'		Ř		MS 7	776.3			2.00	P6E	6E	6D	12	45				
		OE.	95 • 88	6'Lt.	- 1	•	J		778.4			4.08	P7	7	6	15	162	113.6	772.6	III	
		í.	93.00	O LI.						REMOVE	-/						22			***	
		7.4	95+88	40'		8		MS :	778.7	REPLAC		3.00	P7A	7A	7	12	30	775.7	775.5	III	# D C C D CANTTADY
		7A			EXIS		EXIST.		777.3												W.R.C.S.D. SANITARY
	NP (040)			37'Rt.	EXIS		EXIST.	Se	777.6		· X										W.R.C.S.D. SANITARY
	NP (040)	14	94+28	16'L†.			FVISIA		778.9			4.08	. P8	8	7	15	108		773.6		
		8	97+00	6'L+.	1		U		778.6			3.80	P8A	8A	8	12	9		774.3		
		8A	97+00	18'		•			778.6			3.80	P8B	88	8	12	21		774.3		
		8B	97+00	18'		1			779.4			3.80	P9	9	8	12	96	774.9	774.		
		9	98 • 00	6'Lt.	1		J		778.7			3.00	P9A	9A	9	12	22	775.	7775.5	III	
	9 9	9A	98 • 00		Lt.	. 8		1000000				3.00									W.R.C.S.D. SANITARY
	NP (040)	15	97 • 78	20'Lt.	EXIS	ıl.	EXIST.	•	779.4	^			P16			24	78.8			111	Replaced 24" CMP
			81+00	No.									1.10								

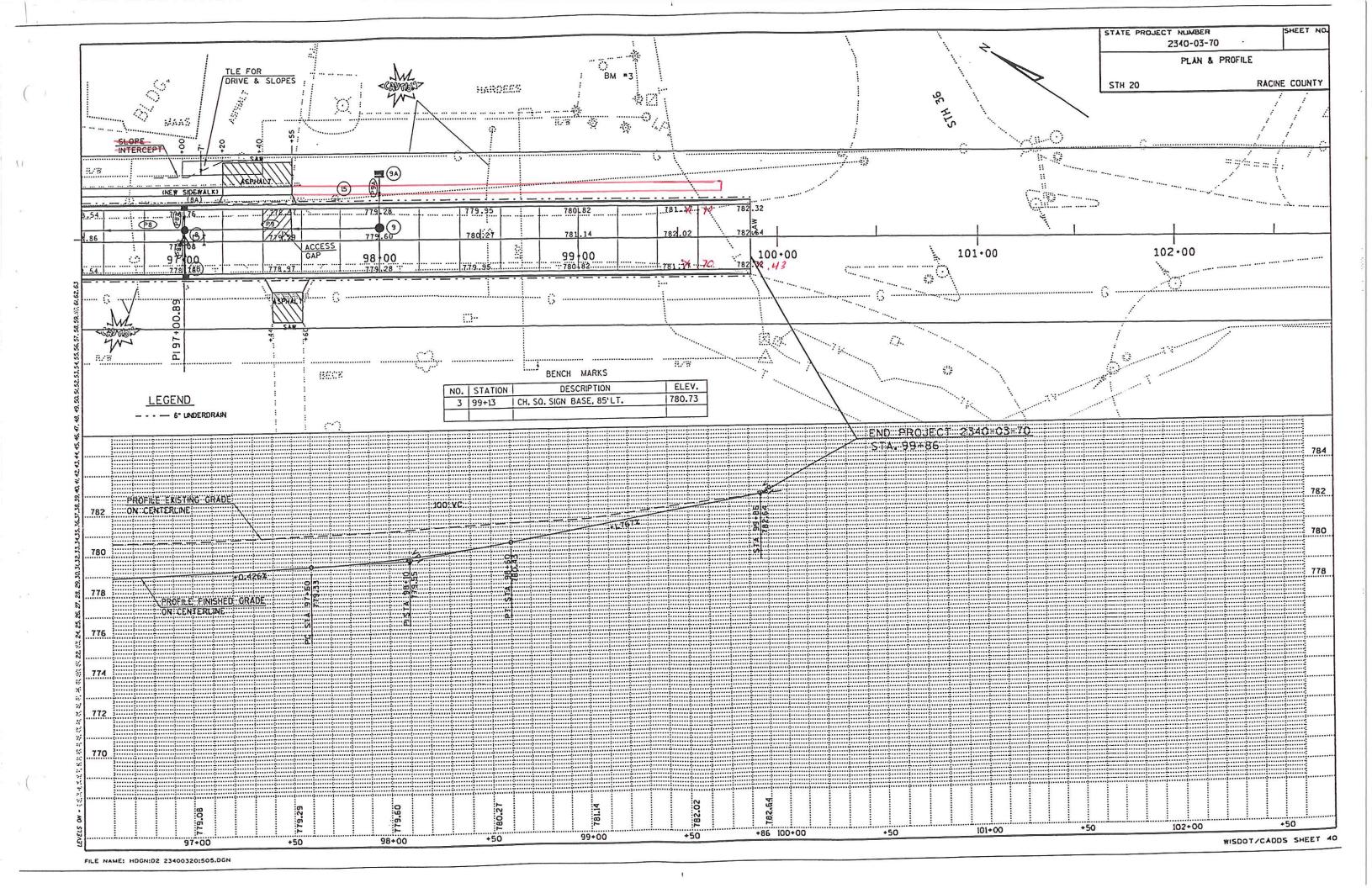
CONSTRUCTION NOTES:
LOCATION OF STRUCTURES IN CURB AND GUTTER SECTIONS REFER TO FACE OF CURB.
LOCATION OF STRUCTURES NOT IN CURB AND GUTTER SECTIONS REFER TO CENTERLINE OF STRUCURE.
PIPE LENGTHS GIVEN ARE APPROXIMATE OUT TO OUT OF STRUCTURE.
GRATE & RIM ELEVATIONS ARE GIVEN AT FLOW LINE OF INLET COVER OR AT CENTERLINE OF MANHOLE COVER.
CONTRACT UNIT PRICE FOR PIPE SHALL INCLUDE COST OF CONNECTING TO EXISTING SEWER OR MANHOLE.
WHEN RESETTING COVERS, REPAIRING BRICKWORK UP TO 12" IS TO BE PAID AS ADJUSTING INLET OR MANHOLE COVERS.
WHEN THE DEPTH OF WORK IS GREATER THEN 12", ALL WORK SHALL BE PAID AS RECONSTRUCTING MANHOLES.

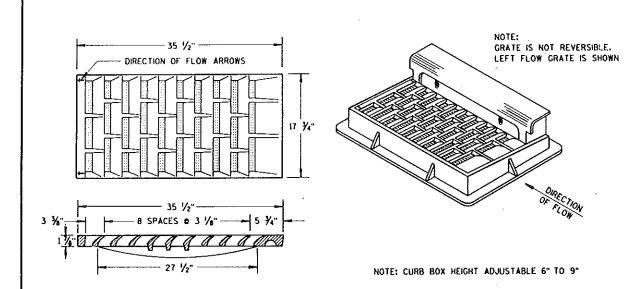
A.E.W. - APRON ENDWALL

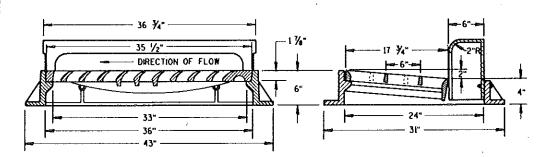










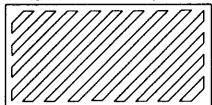


TYPE "H"

(APPROXIMATE WEIGHT 145 LBS.)

FRAME..... 195 LBS. GRATE...... 135 LBS. CURB BOX..... 115 LBS.

1% DIAGONAL BARS WITH 1% OPENINGS



SPECIAL GRATE FOR TYPE "H" COVER

(MEASURES 35 1/2" X 17 3/4" X 2") (APPROXIMATE WEIGHT 170 LBS.) GRATE..... 170 LBS.

(NOTE AS TYPE H-S ON DRAINAGE TABLE)

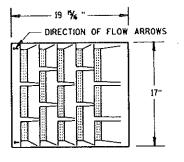
GENERAL NOTES

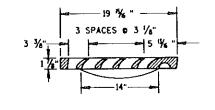
DETAILS OF CONSTRUCTION, MATERIALS AND WORKMANSHIP NOT SHOWN ON THIS DRAWING SHALL CONFORM TO THE PERTINENT REQUIREMENTS OF THE STANDARD SPECIFICATIONS AND THE APPLICABLE SPECIAL PROVISIONS.

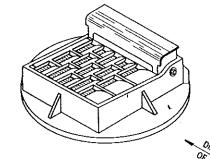
DETAIL DRAWINGS FOR PROPOSED ALTERNATE DESIGNS FOR CATCH BASIN, MANHOLE AND INLET COVERS SHALL BE SUBMITTED TO THE ENGINEER FOR APPROVAL PROVIDING THAT SUCH ALTERNATE DESIGNS MAKE PROVISION FOR EQUIVALENT CAPACITY AND STRENGTH.

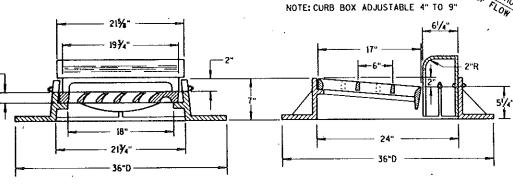
ROUND FRAMES AND COVERS SHALL HAVE CONTINUOUSLY MACHINED BEARING SURFACES TO PREVENT ROCKING AND RATTLING.

THE ACTUAL WEIGHT OF COVERS MAY VARY WITHIN 5 PERCENT, PLUS OR MINUS, OF THE APPROXIMATE WEIGHT. -









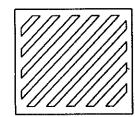
TYPE "A"

(APPROXIMATE WEIGHT 405 LBS.)

FRAME..... 235 LBS, GRATE...... 85 LBS. CURB BOX..... 85 LBS.

GRATE IS NOT REVERSIBLE LEFT FLOW GRATE IS SHOWN

I" DIAGONAL BARS WITH 1 1/2" OPENINGS



SPECIAL GRATE FOR TYPE "A" COVER

(MEASURES 19 1/8" X 17" X 111/4"

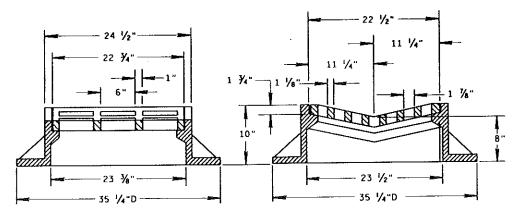
GRATE...... 85 LBS.

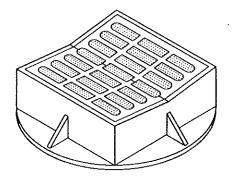
(NOTE AS TYPE A-S ON DRAINAGE TABLE)

INLET COVERS

STATE OF WISCONSIN DEPARTMENT OF TRANSPORTATION

1/25/93 DATE

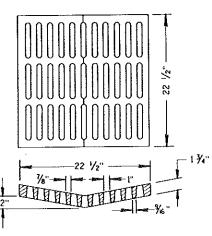




TYPE "B"

(APPROXIMATE WEIGHT 395 LBS.)

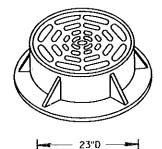
FRAME...... 285 LBS. GRATE..... 110 LBS.

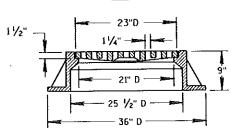


ALTERNATIVE GRATE FOR FOR TYPE "B" COVER

(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



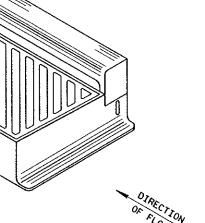


TYPE "C"

(APPROXIMATE WEIGHT 340 LBS.)

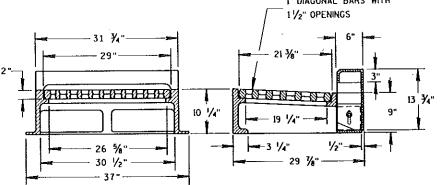
FRAME..... 235 LBS. GRATE..... 105 LBS.-

1" DIAGONAL BARS WITH 11/2" OPENINGS



DIAGONAL SLOTS, SHALL BE ORIENTED TO THE DIRECTION OF FLOW AS ILLUSTRATED. GRATES ARE MANUFACTURED TO BE REVERSIBLE.

S.D.D.



TYPE "WM"

(APPROXIMATE WEIGHT 670 LBS.)

FRAME..... 360 LBS. GRATE..... 160 LBS. CURB BOX..... 150 LBS.

NOTE: CURB BOX HEIGHT ADJUSTABLE 6" TO 9"

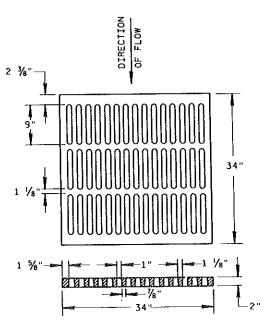
GENERAL NOTES

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.

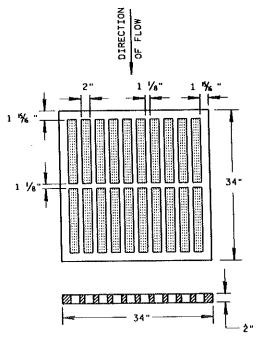


ALTERNATIVE TYPE "MS"

(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

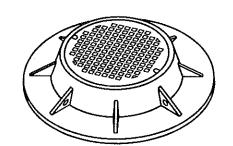
INLET COVERS

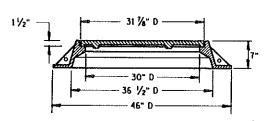
STATE OF WISCONSIN DEPARTMENT OF TRANSPORTATION

APPROVED

STATE DESIGN ENGINEER FOR HWYS

S.D.D. 8 A 5-9b

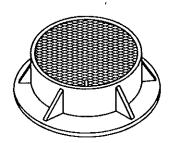


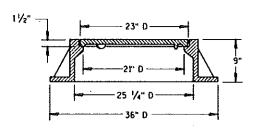


TYPE "K"

(APPROXIMATE WEIGHT 535 LBS.)

FRAVE......330 LBS. LID.....205 L8S.

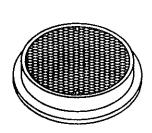


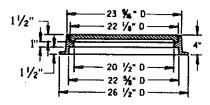


TYPE "J"

(APPROXIMATE WEIGHT 350 LBS.)

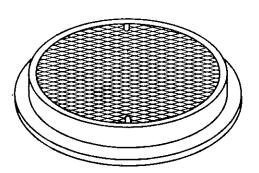
FRANE.....235 LBS. LID.....115 LBS.

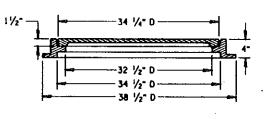




TYPE "L" (APPROXIMATE WEIGHT 145 LBS.)

FRAME......75* LIO......70*





TYPE "M" (APPROXIMATE WEIGHT 385 LBS.)

FRAME...... 125*

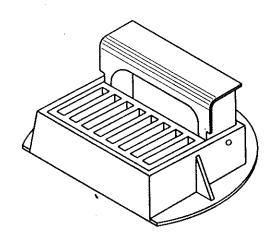
GENERAL NOTES

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.

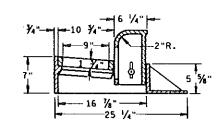
DETAIL DRAWINGS FOR PROPOSED ALTERNATE DESIGNS FOR MANHOLE COVERS SHALL BE SUBMITTED TO THE ENGINEER FOR APPROVAL PROVIDING THAT SUCH ALTERNATE DESIGNS MAKE PROVISION FOR EQUIVALENT CAPACITY AND STRENGTH.

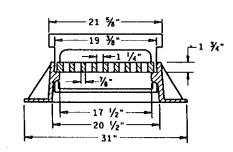
ROUND FRAMES AND COVERS SHALL HAVE CONTINUOUSLY MACHINED BEARING SURFACES TO PREVENT ROCKING AND RATTLING.

THE ACTUAL WEIGHT OF COVERS MAY VARY WITHIN 5 PERCENT, PLUS OR MINUS, OF THE APPROXIMATE WEIGHT.



CURB BOX ADJUSTABLE 4" TO 10"





INLET COVER TYPE "Z"

(APPROXIMATE WEIGHT 280 LBS.)

GRATE...... 50 LBS. CURB BOX..... 85 L8S.

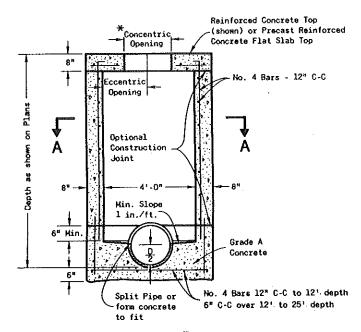
INLET AND MANHOLE COVERS

STATE OF WISCONSIN DEPARTMENT OF TRANSPORTATION

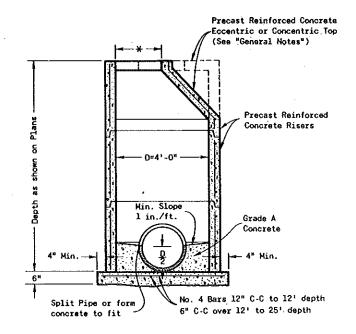
APPROVED 1/25/93 DATE

S.D.D. 8 A 5-9d

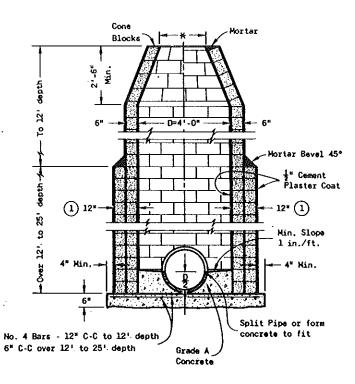
HALF SECTION A-A



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 Polyproplene 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

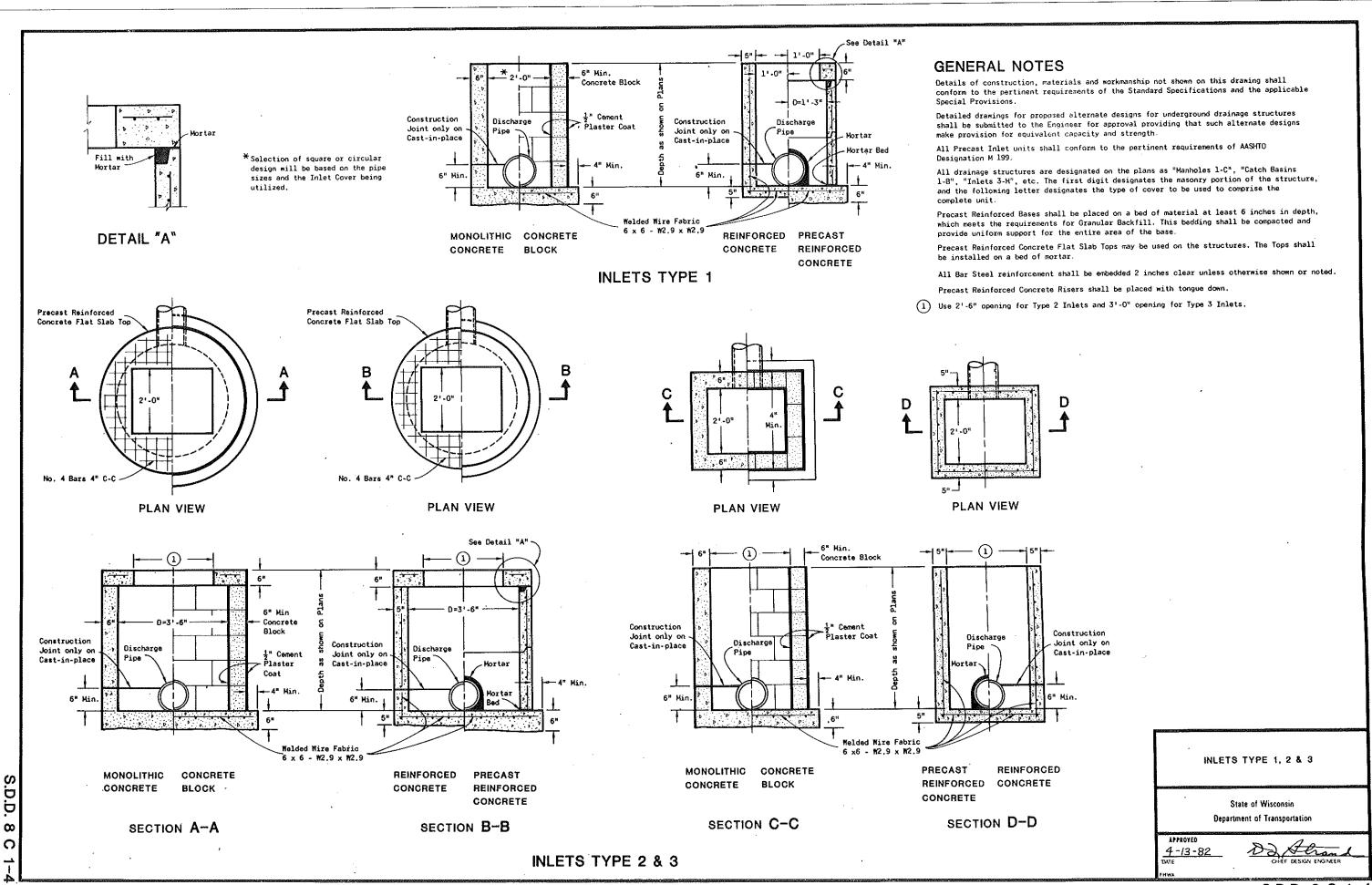
State of Wisconsin

Department of Transportation

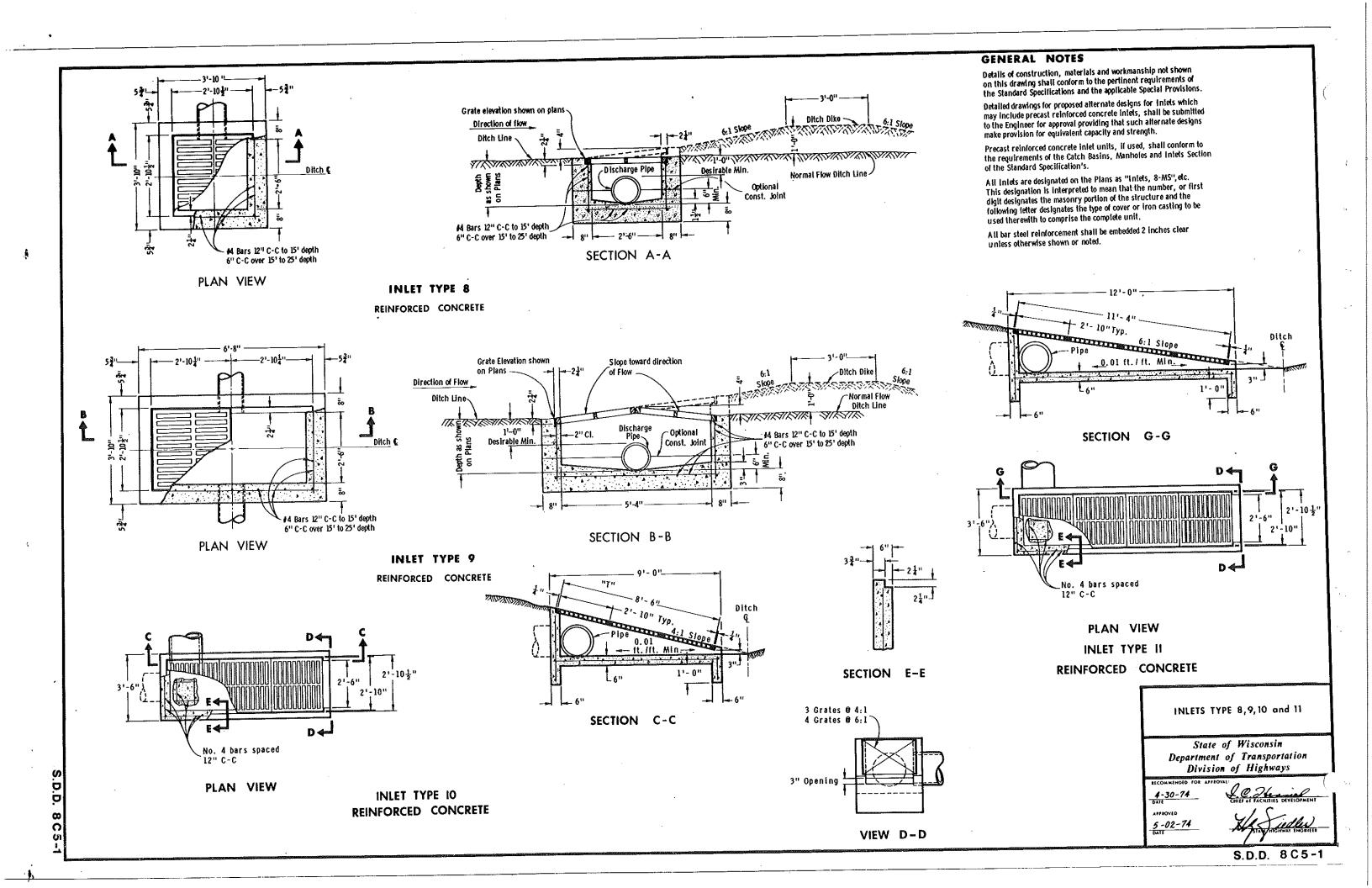
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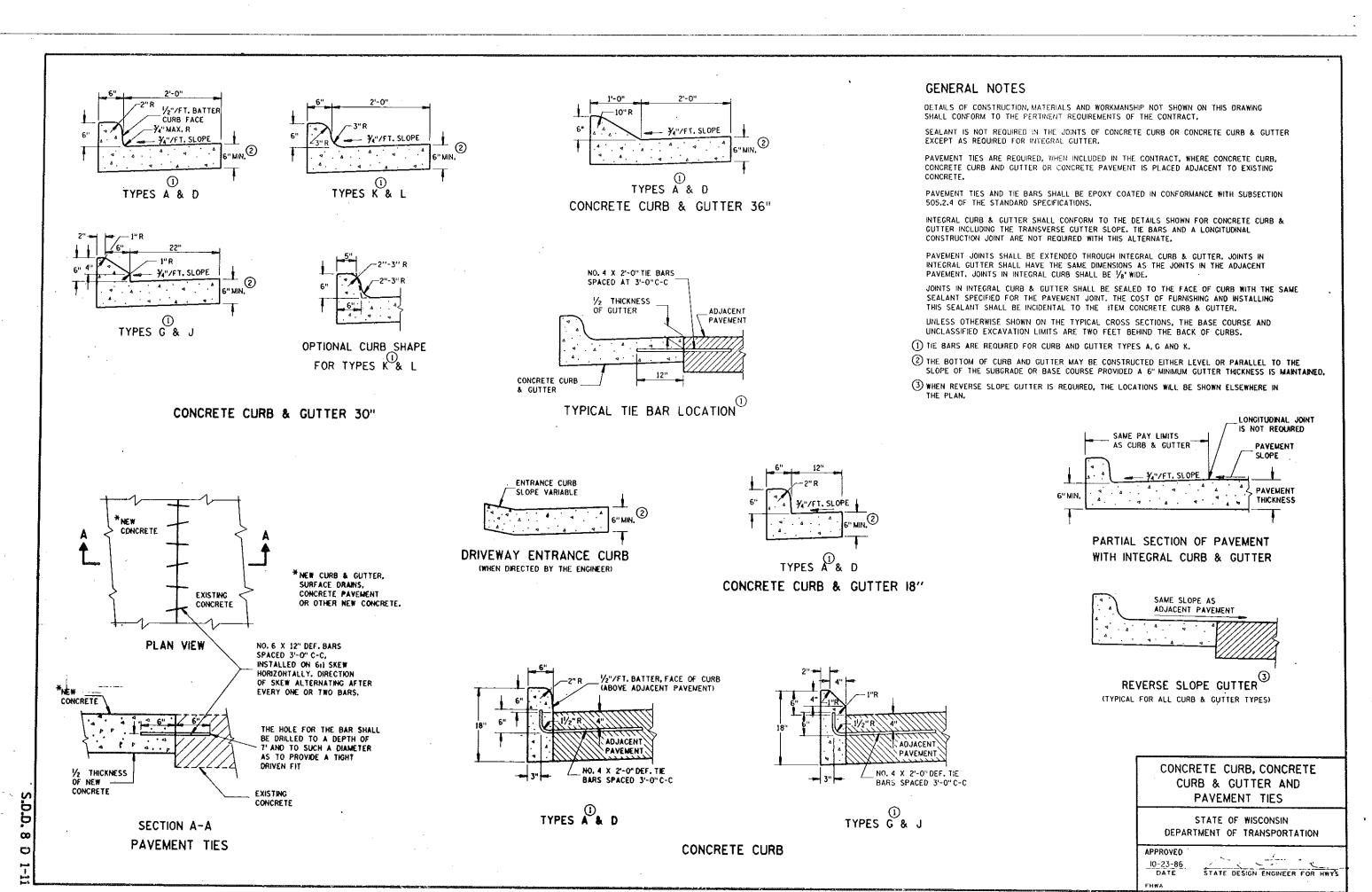
Da Flor

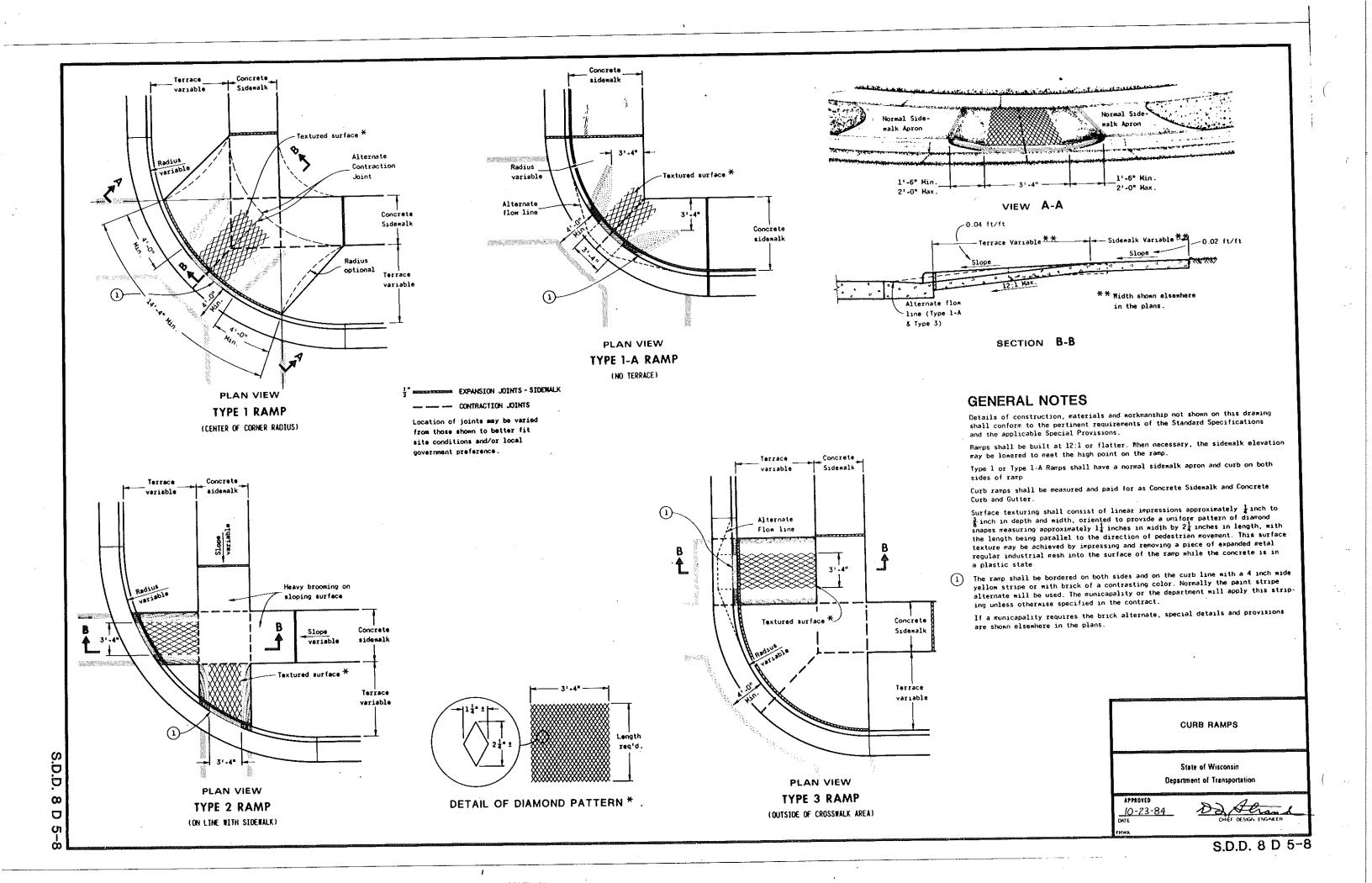
MANHOLES TYPE 1

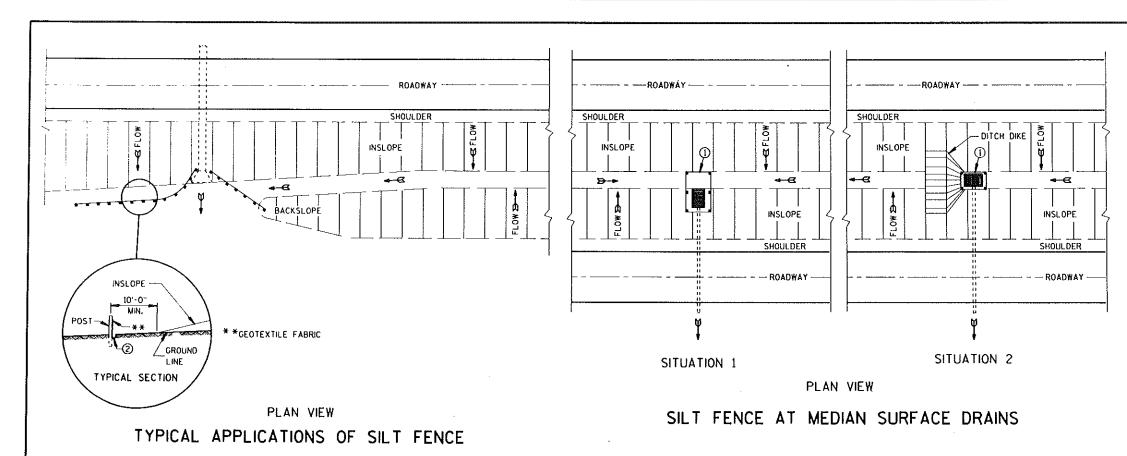


S.D.D. 8 C 1-4









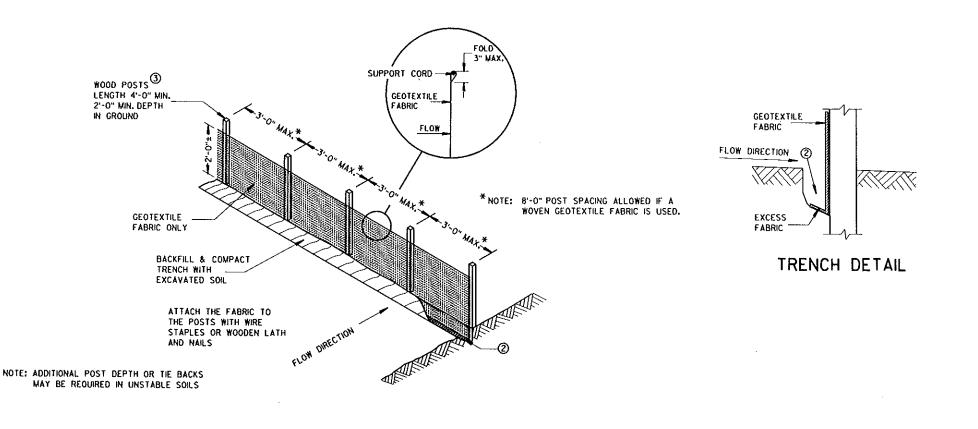
SILT FENCE

(NON-REINFORCED)

GENERAL NOTES

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

- (I) 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 11/8" X 11/8" OF OAK OR HICKORY.



TIEBACK BETWEEN FENCE
POST AND ANCHOR

SILT
FENCE

FLOW DIRECTION

ANCHOR STAKE
MIN. 18" LONG

SILT FENCE TIE BACK
(WHEN REQUIRED BY THE ENGINEER)

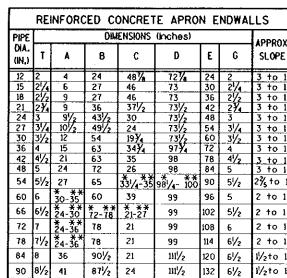
SILT FENCE

STATE OF WISCONSIN
DEPARTMENT OF TRANSPORTATION

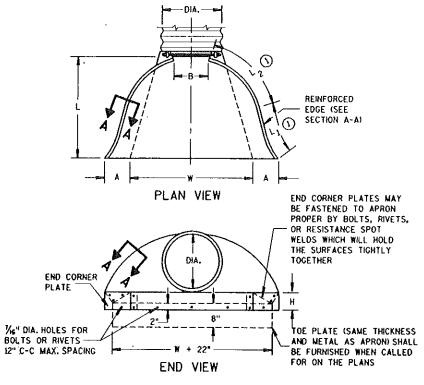
APPROVED
6/29/94 Dong T. Dunes on Date CHEFTROADWAY DEVELOPMENT ENGINEER

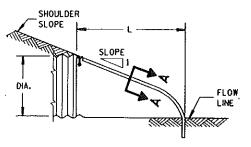
PIPE	MIN, THICK,		DIMENSIONS (Inches)						APPROX.		
(LVI)	(Inches)		A (±1")	B (MAX,)	(ተ)	L (±1 ½*)	<u> </u>	L۷ ①	¥ (±2")	SLOPE	BODY
12	.064	.060	6	6	6	21	12	171/2	24	21/2to 1	1Pc
15	.064	.060	7	8	6	26	14	2174	30	21/2to 1	1Pc
18	.064	.060	8	10	6	31	15	281/4	35	21/2to 1	1Pc.
21	.064	.060	9	12	6	36	18	29%	42	21/2to 1	iPc.
24	.079	.075	10	13	6	41	18	371/4	48	21/2to 1	IPc.
30	.079	075،	12	16	8	51	18	521/4	60	21/2to 1	1Pc.
36	.109	.105	14	19	9	60	24	5974	72	21/2to 1	2 Pc
42	109	.105	16	22	11	69	24	75%	84	21/2 to 1	2 Pc
48	.109	.105	18	27	12	78	24	81	90	21/4to 1	3 Pc
54	109	.105	18	30	12	84	30	851/2	102		3 Po
60	.109×	.105×	18	33	12	87		_	114	2 to 1	3 Po
66	.109×	.105×	18	36	12	87			120	2 to 1	3 Po
72	.109×	.105×	18	39	12	87	_	_	126	2 to 1	3 Pc
78	109×	.105×		42	12	87	-	-	132	1/2+0 1	3 Po
84	.109×	.105×	18	45	12	87			138		3 Pc
90	103 ×	.105×	18	37	12	87		1	144	1/2 to 1	3 Рс
96	.109×	.105×	18 .	35	12	87	-	_	150	1/2 to 1	3 Pc

X	EXC	PT	CENT	ER	PANEL
	SEE	GEN	ERAL	NO	TES

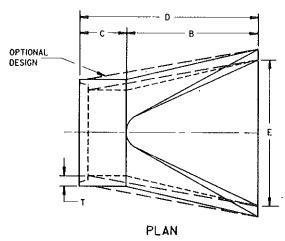


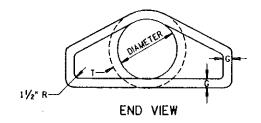
MUMIXAM**

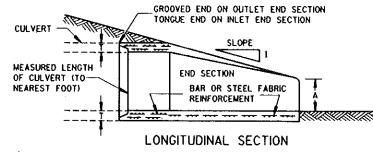




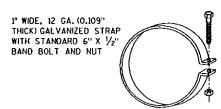
SIDE ELEVATION METAL ENDWALLS



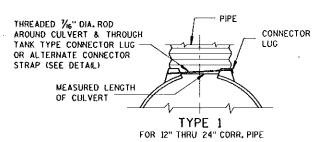


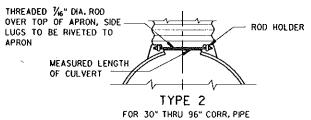


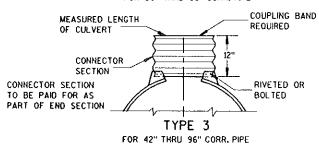
CONCRETE ENDWALLS

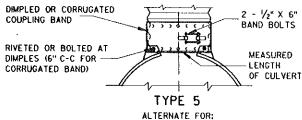


ALTERNATE FOR TYPE 1 CONNECTION END SECTION CONNECTOR STRAP









ALL SIZES CORRUGATED CIRCULAR PIPE

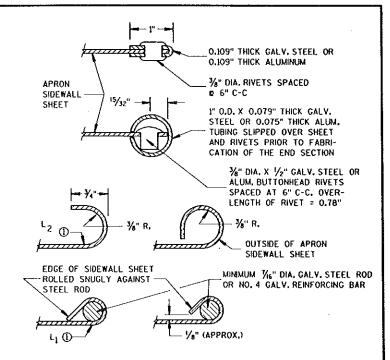
NOTE: DIMPLED BAND FITS OVER OUTSIDE OF ENDWALL, AND CORRUGATED BAND FITS INSIDE ENDWALL. DIMPLED BAND MAY BE USED WITH HELICALLY CORRUGATED PIPE,

> 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 ENOWALL 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 ALUMNUM 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 ALUMNUM 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

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 ALLMINUM STIFFENER ANGLES. THE ANGLES SHALL BE ATTACHED BY GALVANIZED NUTS AND BOLTS FOR STEEL UNITS AND ALLMINUM 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.

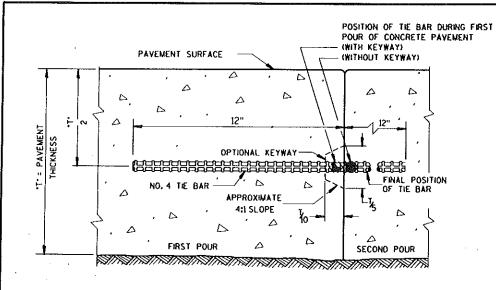
① FOR PIPE SIZES UP TO 60" DIAMETER, A 180° ROLLED EDGE MAY BE USED-INSTEAD OF STEEL ROD REINFORCEMENT. SEE SECTION A-A.

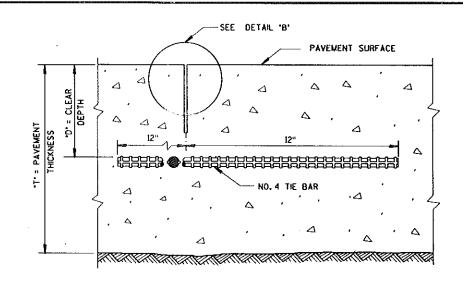
APRON ENDWALLS FOR CULVERT PIPE

STATE OF WISCONSIN DEPARTMENT OF TRANSPORTATION

APPROVED

STATE DESIGN ENGINEER FOR HWYS





RIBBON JOINT

CONSTRUCTION JOINT

SAWED JOINT

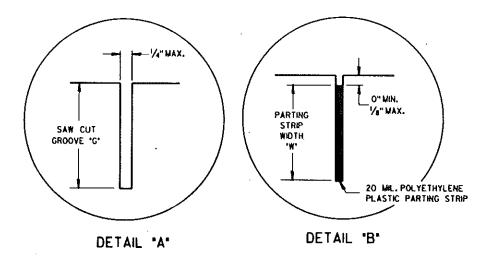
GENERAL NOTES

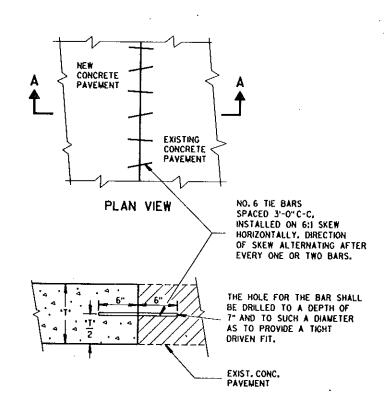
DETAILS OF CONSTRUCTION NOT SHOWN ON THIS DRAWING SHALL CONFORM TO THE PERTINENT REQUIREMENTS OF THE STANDARD SPECIFICATIONS AND THE APPLICABLE SPECIAL PROVISIONS

DETAILS "A" AND "B" ARE EQUAL ALTERNATES UNLESS OTHERWISE SPECIFIED IN THE CONTRACT.

LONGITUDINAL JOINTS SHALL NOT BE SEALED OR FILLED.

TIE BAR SPACINGS ARE VALID ONLY FOR PAVEMENT WIDTHS IN THE TABLE. FOR WIDER PAVEMENTS, TIED CONCRETE SHOULDERS OR RAMPS, THE TIE BAR SPACING SHALL BE AS SHOWN ON THE PLANS.

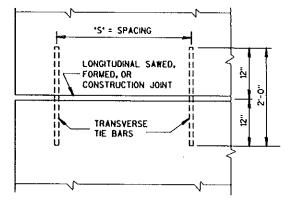




SECTION A-A

PAVEMENT TIES

PAVEMENT THICKNESS	CLEAR DEPTH	SAW CUT GROOVE 'G'	MAXIMUM TI SPACING	PARTING STRIP		
·I.	.D.		PAVEMENT WIDTH		WIDTH	
			24' OR 26'	30'	•W•	
6"	3"±1/2"	11/2"	48"	42"	2"	
- 7"	3 1/4"±1"	1 ¾-	45"	36"	2 1/4"	
8"	3 ¾*±1"	2"	39"	30"	2 1/2"	
9"	4 1/4"±1"	2 1/4"	33"	27"	3"	
10"	4 ¾"±1"	2 1/2"	30"	24"	3 1/4"	
11"	5 ¼*±1"	2 ¾"	27"	21"	3 ¾°	
12*	5 ¾"±1"	3"	24"	21"	4"	



PLAN VIEW SHOWING LOCATION OF TIE BARS

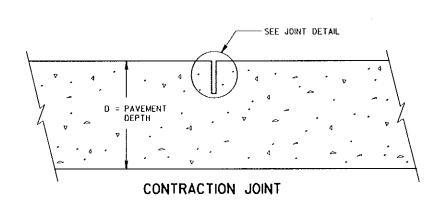
CONCRETE	PAVEMENT
LONGITUDIN	IAL JOINTS
AND PAVE	MENT TIES

STATE OF WISCONSIN
DEPARTMENT OF TRANSPORTATION

APPROVEO 3/16/92 DATE

STATE DESIGN ENGINEER FOR HAYS

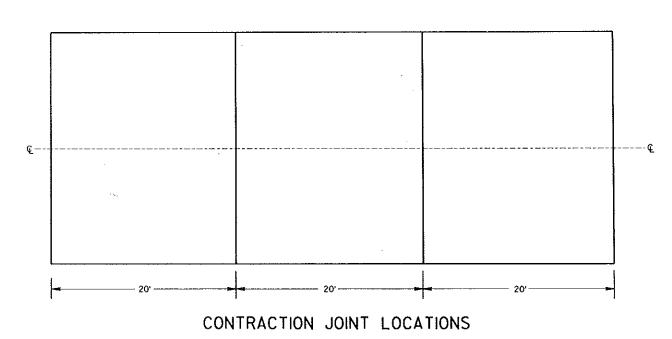
JOINT DETAIL



S.D.D.

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GENERAL NOTES

DETAILS OF CONSTRUCTION NOT SHOWN ON THIS DRAWING SHALL CONFORM TO THE STANDARD SPECIFICATIONS AND SPECIAL PROVISIONS.

CONTRACTION JOINTS

THE LOCATION AND ORIENTATION OF CONTRACTION JOINTS THRU INTERSECTIONS SHALL BE AS SHOWN ON THE PLANS OR AS DIRECTED BY THE ENGINEER.

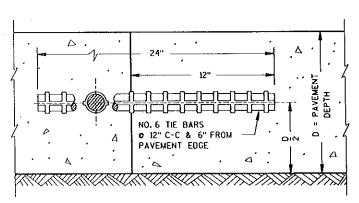
CONTRACTION JOINTS SHALL NOT BE SEALED OR FILLED.

CONSTRUCTION JOINTS

CONSTRUCTION JOINTS SHALL BE LOCATED A MINIMUM OF 4 FEET FROM THE NEAREST CONTRACTION JOINT AND ALIGNED EITHER PARALLEL TO THE CONTRACTION JOINTS OR AT 90° TO THE CENTERLINE.

TIE BARS MAY BE INSERTED THROUGH THE HEADER BOARD AFTER THE CONCRETE HAS BEEN POURED.

TIE BARS SHALL BE EPOXY COATED IN CONFORMANCE WITH SUBSECTION 505.2.4 OF THE STANDARD SPECIFICATIONS.

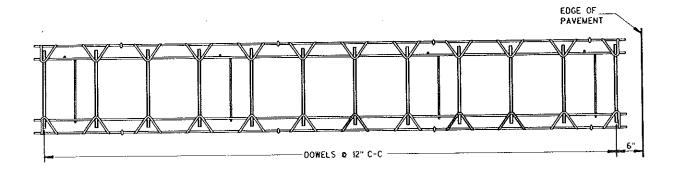


CONSTRUCTION JOINT

NON-REINFORCED CONCRETE PAVEMENT (TRANSVERSE JOINTS SPACED AT 20 NORMAL)

STATE OF WISCONSIN
DEPARTMENT OF TRANSPORTATION

APPROVED _/2/19/90 DAYE STATE DESIGN ENGINEER FOR HWYS



PLAN VIEW



SIDE VIEW
CONTRACTION JOINT DOWEL ASSEMBLY

DOWEL BAR SIZE TABLE

PAVEMENT DEPTH	DOWEL BAR DIAMETER		
9" OR LESS	1 1/4"		
MORE THAN 9"	11/2"		

GENERAL NOTES

DETAILS OF CONSTRUCTION NOT SHOWN ON THIS DRAWING SHALL CONFORM TO THE STANDARD SPECIFICATIONS AND SPECIAL PROVISIONS.

CONTRACTION JOINTS

UNLESS OTHERWISE SPECIFIED OR SHOWN IN THE CONTRACT,
CONTRACTION JOINTS MAY BE ORIENTED EITHER NORMAL TO THE CENTERLINE
AS SHOWN OR SKEWED 6: RIGHT HAND FORWARD. THE LOCATION OF CONTRACTION
JOINTS THRU INTERSECTIONS SHALL BE AS SHOWN ON THE PLANS OR AS DIRECTED
BY THE ENGINEER.

CONTRACTION JOINTS SHALL NOT BE SEALED OR FILLED.

DOWEL BARS SHALL BE INSTALLED PARALLEL TO THE PAVEMENT CENTERLINE AND SURFACE.

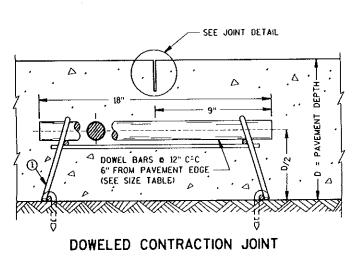
CONSTRUCTION JOINTS

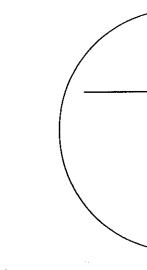
CONSTRUCTION JOINTS SHALL BE A MINIMUM OF 4 FEET FROM THE NEAREST CONTRACTION JOINT AND ALIGNED EITHER PARALLEL TO CONTRACTION JOINTS OR AT 90° TO THE CENTERLINE.

TIE BARS MAY BE INSERTED THROUGH THE HEADER BOARD AFTER THE CONCRETE HAS BEEN POURED.

TIE BARS SHALL BE EPOXY COATED IN CONFORMANCE WITH SUBSECTION 505.2.4 OF THE STANDARD SPECIFICATIONS.

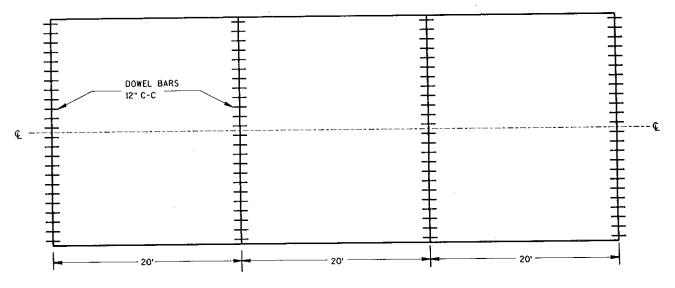
(1) ALTERNATIVE DESIGNS OF THE DOWEL ASSEMBLY MAY BE USED WHEN APPROVED BY THE ENGINEER. MECHANICAL DOWEL BAR IMPLANTERS MAY BE USED INSTEAD OF DOWEL ASSEMBLIES.



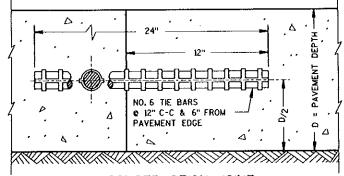


JOINT DETAIL

----1/4" HAX.



CONTRACTION JOINT LOCATIONS



DOWELED NON-REINFORCED

CONCRETE PAVEMENT

(TRANSVERSE JOINTS SPACED AT 20' & NORMAL)

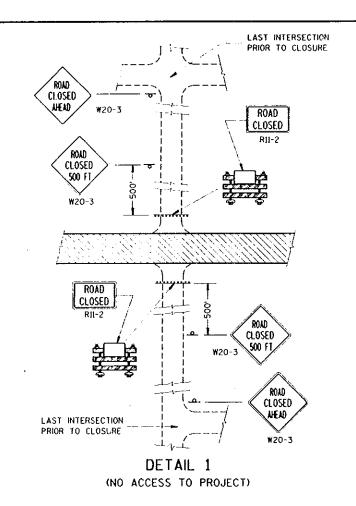
STATE OF WISCONSIN
DEPARTMENT OF TRANSPORTATION

APPROVED

12/19/90
DATE

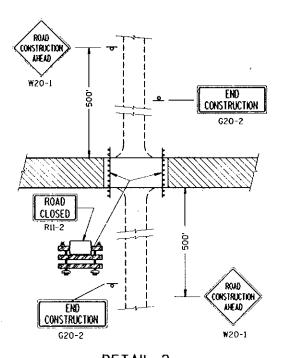
STATE DESIGN ENGINEER FOR HWYS

CONSTRUCTION JOINT



D.D.

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DETAIL 2
(PUBLIC CROSS-TRAFFIC MAINTAINED, NO ACCESS TO PROJECT).

ROAD CLOSED THEU TRUTTED THE T

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.

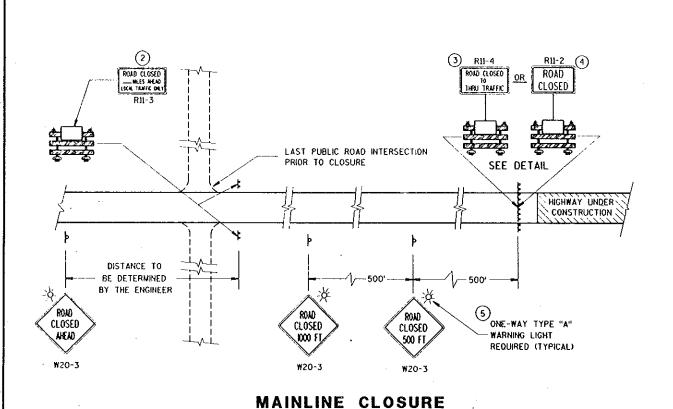
ALL TYPE HIBARRICADES SHALL HAVE RAILS REFLECTORIZED ON BOTH FACES, STRIPES SHALL BE PROPERLY SLOPED DOWN TOWARD THE TRAFFIC SIDE OR AS SHOWN IN THE ROAD CLOSURE BARRICADE DETAIL FOR FULL ROAD CLOSURES. TYPE "A" LOW INTENSITY FLASHING WARNING LIGHTS SHALL BE VISIBLE ON BOTH SIDES OF THE BARRICADE.

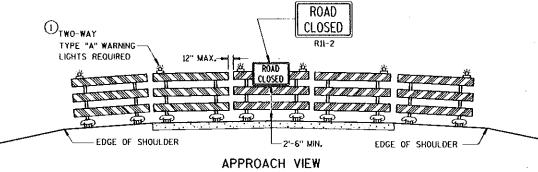
THE ROAD CLOSED SIGN (R11-2), ROAD CLOSED _____ MILES AHEAD SIGN (R11-3) AND THE ROAD CLOSED TO THRU TRAFFIC SIGN (R11-4) SHALL BE ATTACHED ONLY TO THE TOP RAIL OF THE TYPE III BARRICADE, THE SIGNS SHALL NOT COVER MIDDLE RAIL.

TYPE "H" REFLECTIVE SHEETING SHALL BE USED ON ALL BARRICADES, TYPE I, BAND M, AND ON ALL RII-2, RII-3 AND RII-4 SIGNS.

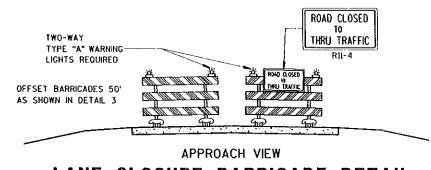
- ALL SIGNS SHALL BE 48" X 48" UNLESS OTHERWISE NOTED BELOW: RII-2, "ROAD CLOSED" SIGNS SHALL BE 48" X 30". RII-3, AND RII-4 SIGNS SHALL BE 60" X 30". G20-2 SIGNS SHALL BE 60" X 24".
- 1) TWO WARNING LIGHTS SHALL BE PROVIDED ON THE CENTER BARRICADE AND AT LEAST ONE WARNING LIGHT SHALL BE PROVIDED ON 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





ROAD CLOSURE BARRICADE DETAIL



LANE CLOSURE BARRICADE DETAIL

LEGEND

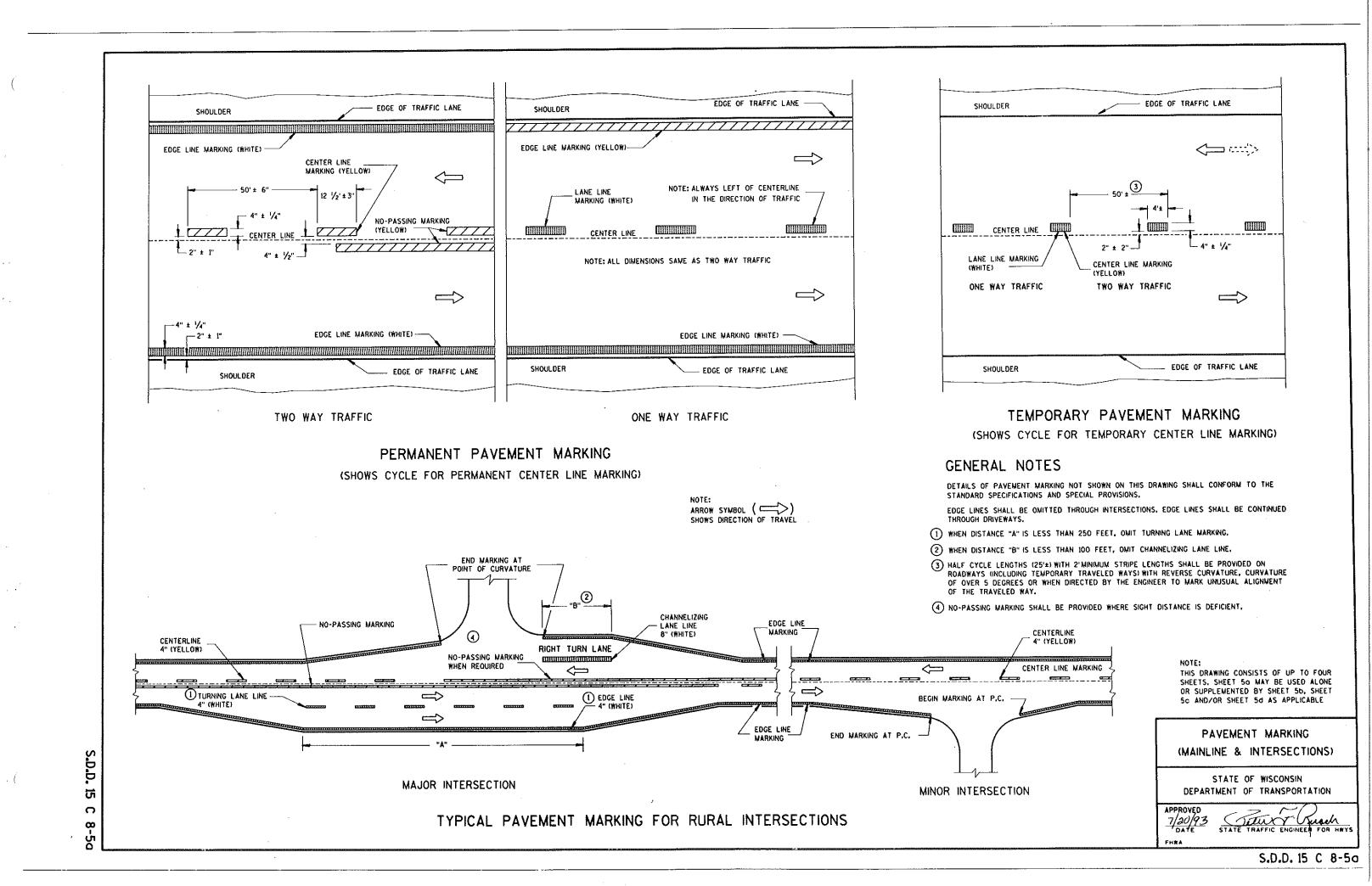
- P POST MOUNTED WARNING SIGN
- TYPE (II BARRICADES WITH TYPE "H"
 REFLECTIVE SHEETING
- TYPE "A" LOW INTENSITY FLASHING WARNING LIGHT (FOR NIGHT USE)
- WORK AREA

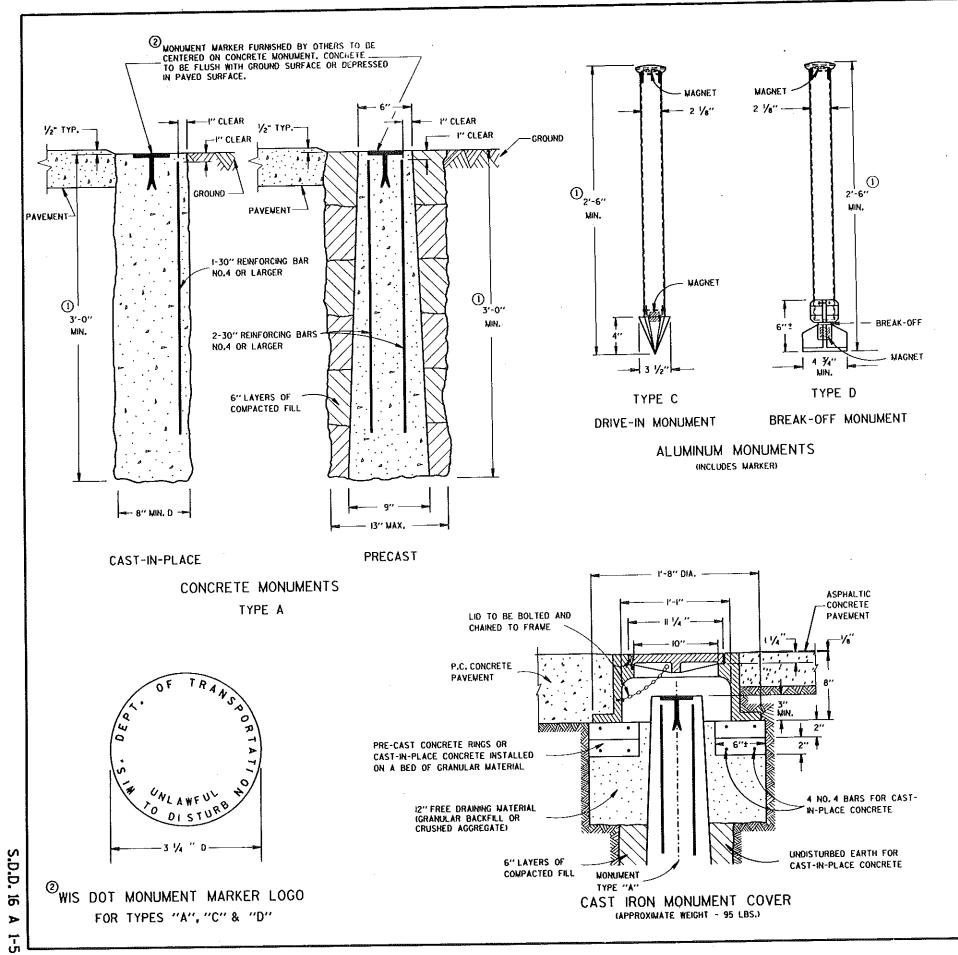
BARRICADES AND TRAFFIC CONTROL FOR ROAD CLOSURES

STATE OF WISCONSIN
DEPARTMENT OF TRANSPORTATION

APPROVED 10-3!-89

DATE STATE TRAFFIC ENGINEER FOR HWYS





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.

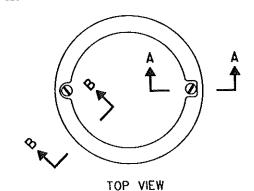
MONUMENTS SHALL BE LOCATED AND PLACED AT THE DIRECTION OF THE ENGINEER.

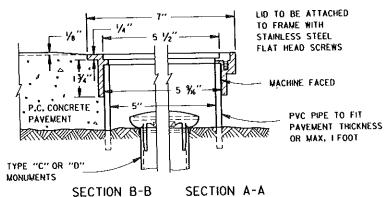
ALUMINUM MONUMENTS AND MONUMENT COVERS SHALL BE MADE FROM AN ALUMINUM AND MAGNESIUM ALLOY AS DETERMINED BY THE MANUFACTURER.

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.
- AN OFFICIAL COUNTY MONUMENT MARKER SUPPLIED BY A COUNTY WAY BE REQUIRED FOR SOME SECTION CORNERS AND WITNESS MONUMENTS INSTEAD OF THIS WIS DOT MARKER.





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

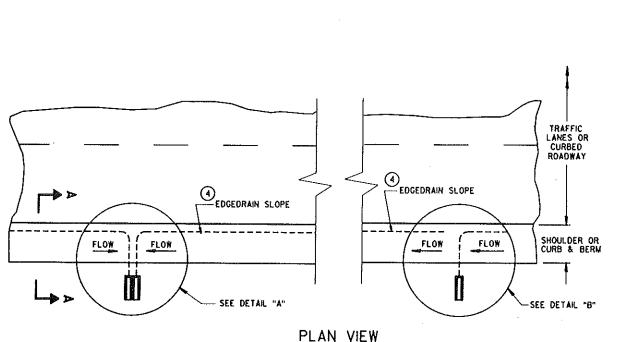
APPROVED

3/31/92

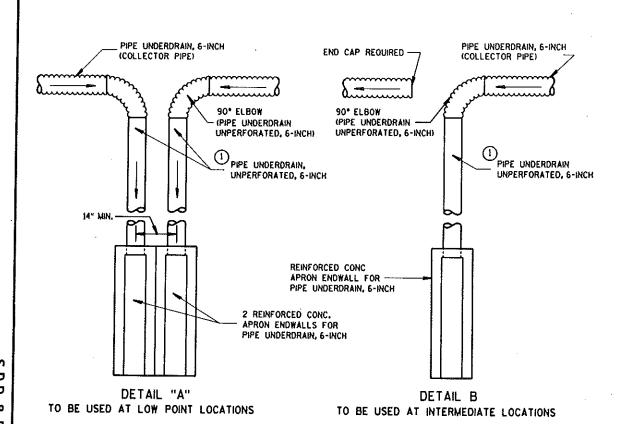
DATE

Allersee STATE DESIGN ENGINEER FOR HWYS

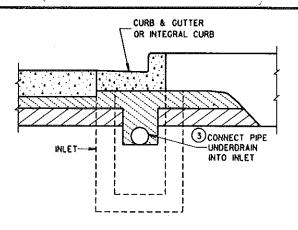
S.D.D. 16 A 1-5



ROADWAY WITH SHOULDERS OR CURBS (EDGEDRAIN OUTLETS TO ROADSIDE)

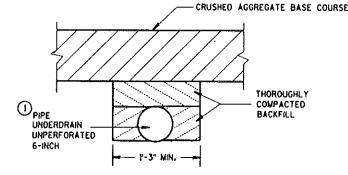


TYPICAL DRAIN OUT DETAILS

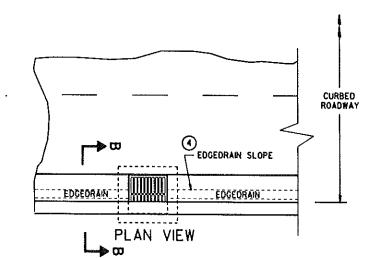


SECTION B-B

URBAN CROSS SECTION



SECTION C-C (TRENCH FOR OUTFALL PIPE)



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

(1) UNPERFORATED PIPE UNDERDRAIN AND FITTINGS FURNISHED FOR OUTFALL PIPE SHALL MEET THE

POLYVINYE CHEORIDE (PVC) PLASTIC DRAIN, WASTE, AND VENT PIPE AND FITTINGS,

TYPE PSM POLYVINYL CHLORIDE (PVC) SEWER PIPE AND FITTINGS, ASTM D 3034.

(2) MAXIMUM SPACING OF EDGEDRAIN OUTLETS SHALL BE 250 FEET UNLESS OTHERWISE SPECIFIED

(3) EDGEDRAIN SHALL BE CONNECTED TO INLETS REGARDLESS OF FLOW DIRECTION FOR DRAINAGE

GENERAL NOTES

ASTM D 2665, SCHEDULE 40 PVC.

IN THE CONTRACT OR DIRECTED BY THE ENGINEER.

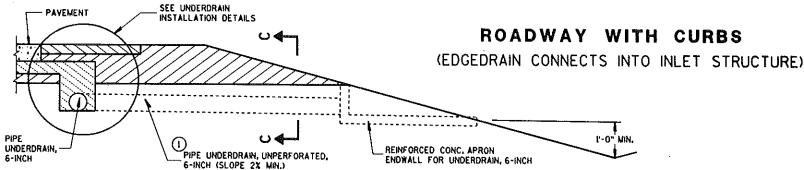
(4) EDGEDRAIN SHALL BE LAID PARALLEL TO THE GRADE OF ROADWAY.

REQUIREMENTS OF ONE OF THE FOLLOWING SPECIFICATIONS:

THE APPLICABLE SPECIAL PROVISIONS.

SDR 23.5 PVC SEWER PIPE.

AND MAINTENANCE ACCESS.

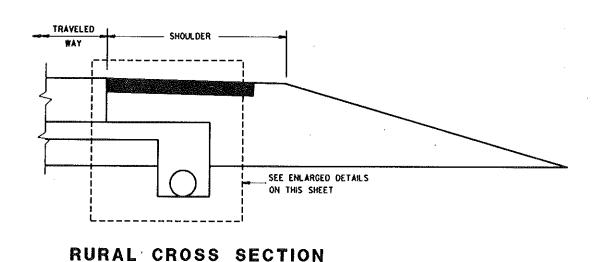


SECTION A-A RURAL CROSS SECTION

SDD 8F6-X AND SDD 8DI5-Ib or SDD 8DI5-IC ARE REQUIRED WITH THIS DRAWING IN CONTRACT PLANS.

EDGEDRAIN OUTLET DETAILS

STATE OF WISCONSIN DEPARTMENT OF TRANSPORTATION

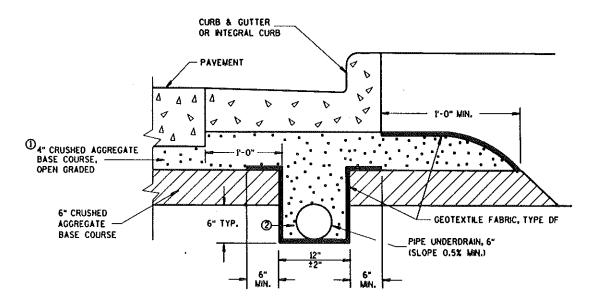


NOTES

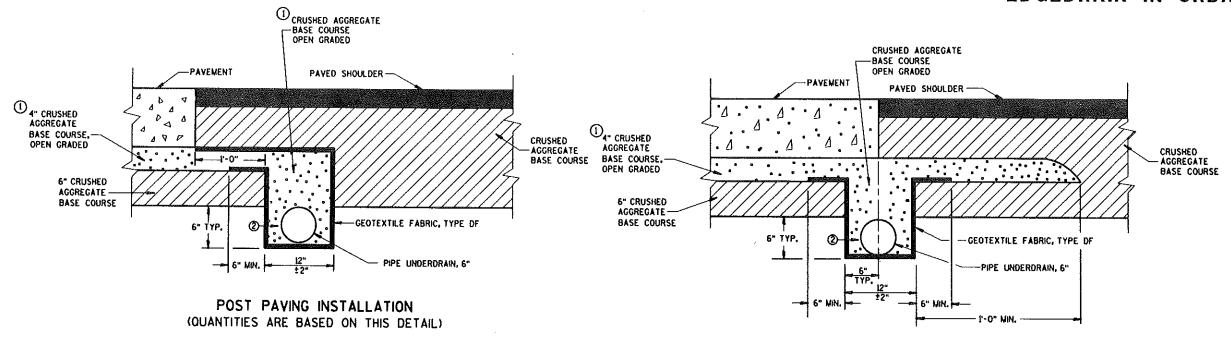
THE DIMENSIONS SHOWN ON THE TYPICAL CROSS SECTIONS WILL GOVERN IN THE EVENT THERE IS A CONFLICT WITH THE DETAILS SHOWN ON THIS DRAWING,

PIPE UNDERDRAIN SHALL BE LAID PARALLEL TO THE GRADE OF THE ROADWAY.

- (1) THE GRADATION OF THE OPEN GRADED BASE COURSE SHALL BE EITHER NO. 1 OR NO. 2
 AS SPECIFIED ELSEWHERE IN THE CONTRACT.
- ② TRENCH BACKFILL WILL BE PAID FOR AS CRUSHED AGGREGATE BASE COURSE, OPEN GRADED NO. 1 OR NO. 2 AS SPECIFIED.



EDGEDRAIN IN URBAN ROADWAY



NOTE: SDD 8D15-1a IS REQUIRED WITH THIS DRAWING IN CONTRACT PLANS.

EDGEDRAIN AND CRUSHED AGGREGATE BASE COURSE. OPEN GRADED NO. OR NO. 2

STATE OF WISCONSIN
DEPARTMENT OF TRANSPORTATION

APPROVED

12/1/93 Roy J. Thompsons

DATE CHEEN METHODS DEVELOPMENT ENGINEER

EDGEDRAIN IN RURAL ROADWAY

PRE-PAVING INSTALLATION ALTERNATIVE

TYPICAL ASSEMBLIES ا حا اك BITTESTATE MIERSTATE COUNTY North IMIERSTATE DITERSTATE ENTERSTATE J2-2 J2-3 BITERSTATE INTERSTATE J3-3 J3-1 COUNTY FRONTAGE ROAD 7 J12-1 J13-1 TO TO EAST TO TO DITERSTATE INTERSTATE BITERSTATE MIERSTATE

J23-1

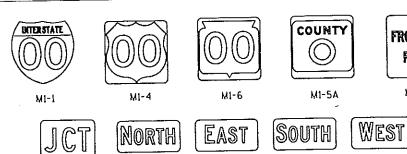
INDIVIDUAL COMPONENTS OF ASSEMBLIES

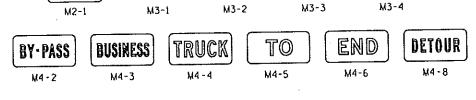
FRONTAGE

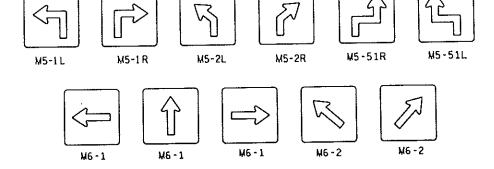
ROAD

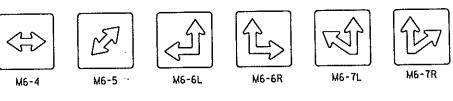
M1-95

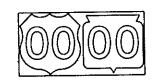
M3-4

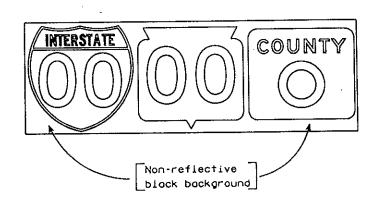










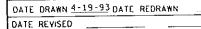


GENERAL NOTES

1. All components within any individual assembly shall be the same "size". The following table illustrates that situation:

SIZE	M1'S	M2	M3'S & M4'S	M5'S & M6'S
2	24 X 24	21 X 15	24 X 12	21 X 21
3.4-5	36 X 36	30 X 21	30 X 15	30 X 30

- 2. For any assembly containing two or more route markers, the route markers SHALL be placed on a single PLYWOOD panel. All other materials within the assembly can be either plywood or aluminum.
- 3. Certain marker heads require the component pieces to be the same color. As an example, all the componets used with an M1-1 marker shall be blue.



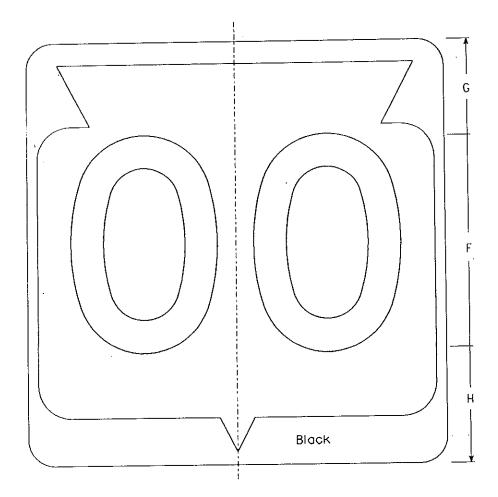
ROUTE MARKERS & COMPONENTS IN TYPICAL ASSEMBLIES

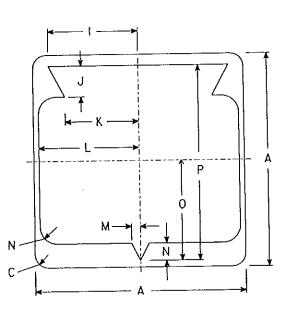
WISCONSIN DEPT OF TRANSPORTATION

APPROVED

WISDOT/CADDS SHEE

	STATE PROJECT NUMBER	SHEET	NO
-		1	乛





NOTES

- Sign is Type II- Reflective reference WIS DOT Standard Specification for ROAD and BRIDGE CONSTRUCTION latest edition.
- 2. Color:

Background - White Message - Black

- 3. Corners may be square or rounded when base material is plywood but borders shall be rounded as shown. When base material is metal, the corners and borders shall be rounded.
- 4. Routes having one number Series "E"
 Routes having two numbers Series "D"
 or It can be reduced to Series "C" or
 to the next smaller height commonly
 available to fit the space available.
- 5. Substitute appropriate numerals & adjust spacing to achieve proper balance.



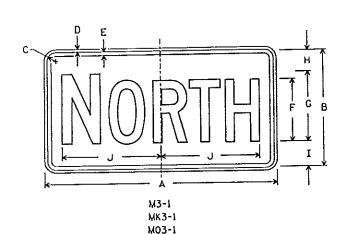
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Oversize	3																<u> </u>		<u> </u>	 		ļ		<u> </u>				9.0
Expway	4	36		2 1/4			18	0 / 4					17 1/8		2 1/8						<u></u>			ļ <u> </u>				3.0
Freeway	5	36	1	2 1/4			18	8 1/4	9 3/4	15 3/8	5 3/8	12 5/g	17 1/8	11/2	2 1/8	16 1/8	33						<u>]</u>	<u> </u>		Ì	<u> </u>	9.0

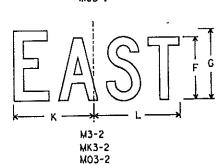
DATE REVISED			
STATE	ROL	JTE	MARKER
M1-6	FOR	AS	SEMBLIES
WISCONSIN	DEPT (OF TR	ANSPORT AT ION
APPROVED	de	2	
_	51	419 7505	fic Engineer
DATE _ 10 - 3	-88	PLAT	E NO. M1-6.5

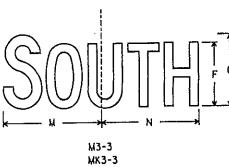
SIZE

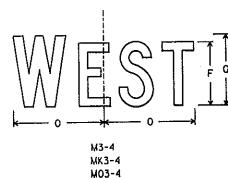
3

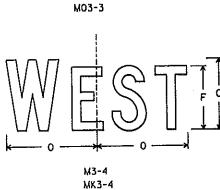
4

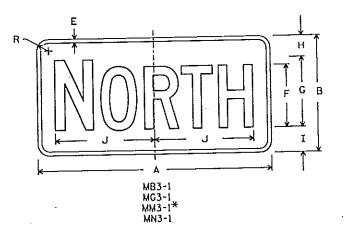


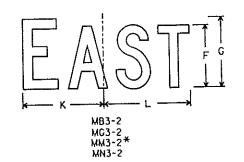


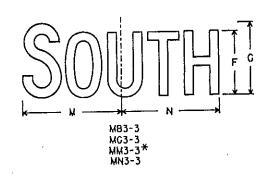


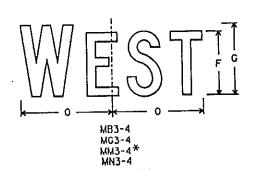












NOTES

- 1. Signs are Type II Reflective reference WIS DOT Standard Specification for ROAD and BRIDGE CONSTRUCTION latest edition
- 2. Color: Background - See note 5 See note 5 Message "
- 3. Message Series C
- 4. Corners may be square or rounded when base material is plywood but borders shall be rounded as shown. When base material is metal, the corners and borders shall be rounded.
- Background Reflective white 5. M3-1 thru M3-4 Message - Black
 - MB3-1 thru MB3-4 Background Reflective blue Message - Reflective white
 - Background Reflective green MG3-1 thru MG3-4 Message - Reflective white
 - MK3-1 thru MK3-4 Background Non-Reflective green Message - Non-Reflective white
 - MM3-1 thru MM3-4 Background Reflective white Message - Reflective green
 - Background Reflective brown thru MN3-4 Message - Reflective white
 - MO3-1 thru MO3-4 Background Reflective Orange Message - Black
- 6. Border shall be omitted on MM series.
- 7. Note the first letter of each direction is larger than the remainder of the message.

* See Note 6

	5	75	50mm	x 3	75mm														··					T		1 	- 7	Area sq.ff.
Ī	SIZE	Δ	R	C	D	E	F	G	н	ı	J	K	L	M	N	0	Р	0	R_	S	T	U	<u>v</u>	W	X	- T		
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П	51	30	15	11/8	3/8	1/2	8	ן א	23/4	37/4	1274	10.28	11/8	14 /8	12/2	1 - 1 / 6	<u></u>	<u> </u>	-/2	<u> </u>			.1					

STANDARD SIGNS M3-1 thru M3-4 **SERIES**

WISCONSIN DEPT OF TRANSPORTATION

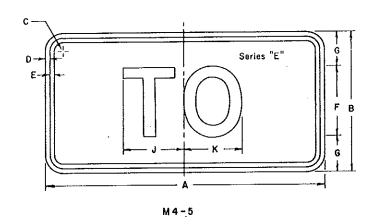
Metric equivalent

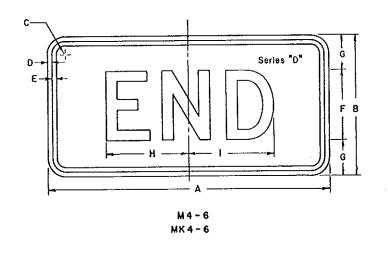
for this sign is:

600mm x 300mm

750mm x 375mm

750mm x 375mm





	SIZE	SIZE	Α	В	С	D	ε	F	G	Н	1	J	K	L	M	N	0	Ρ	Q	R	S	T	U	V	W	X	Y	Z
	Minlmum	ı	24	12	1 18	3/8	<u>3</u> 8	6	3	7	74	5 16	5															
ĺ	Standard	2	24	12	1 1/8	<u>3</u> 8	<u>3</u> 8	6	3	7	714	5 3 16	5															
<u>A</u>]	Oversize	3	30	15	 	38	<u>1</u> 2	8	3 2	9 16		$6\frac{29}{32}$	$6\frac{2}{32}$															
1	Exp-way	4	30	15	1 1/8	3 8	$\frac{1}{2}$	8	3 2	9 <u>5</u>	9 <u>21</u> 32	6 29 32	6 32															
71	Freeway	5	24	12	18	<u>3</u> 8	3 8	6	3	7	7 1/4	5 16	5															
			АΑ	88	CC	DD	EE	FF	GG	нн	Ш	JJ	KK	LL	мм	NN	00	PΡ	QQ	RR	SS	TT	υυ	VV	WW	ХX	YY	ZZ
$\exists I$	Minimum	1									,																	
	Standard	2														<u> </u>												
7	Oversize	3																	<u> </u>									<u> </u>
7	Exp-way	4																										
	Freeway	5													o de marco													

РВОИСТ Ц. В.	SHEET HUMBER	TOTAL SHEET:
PROJECT DESIGNATION	_	

NOTES:

l. Sign is Type 🎞

2. Color:

See NOTE 5 Message —

3. Foce Material -

4. Corners may be square or rounded when base material is plywood but borders shall be rounded as shown. When base material is metal, the corners and borders shall be rounded.

5. M4-5 and M4-6: Background - Reflectorized White

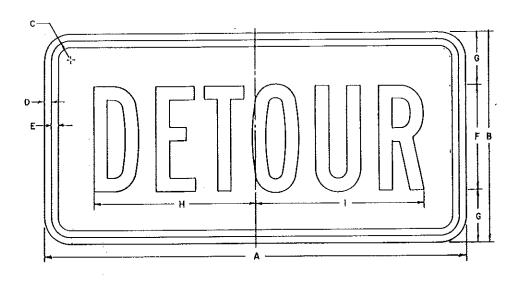
Message — Black Face Material — Reflective Sheeting

MK4-5 and MK4-6: Background-Non-reflective Green Message -Non-reflective White Face Material - Paint

6. Drawing may be scaled for standard size only.

Dale Drawn - 12	-15-64	Date Re	grawn.	- 2 - 23 - 7	2	¢\$
Date Revised	1-13-7	2	_		_	
	10-12-	72	_			
			-		_	
\$	STAND	ARD	SIG	N		
	M4	-5, 1	14-	6		
Old Codes M2	-52 — M7-	-1			_	
WISCO	VSIN DI	VISION	OF H	IGHWAY	'S	
APPROVED	d	E	Hu	cks		
	, /5	TATE HIG	HWAY	ENGINEER	ı	
	/ /					

Replaces in part Old Plate M2-1.2



M4-8

SIZE	CODE	Α	В	С	D	ε	F	G	Н	1	ŀ	к	L	М	N	0	Р	Q	R	s	Ŧ	U	٧	₩	X	Y	z
Minimum	ı									L																	
Standard	2	24	12	1 1 8	3 8	3 8	6	3	9 <u>3</u>	9 <u>9</u>																	<u> </u>
Oversize	3	30	15	1 1/8	38	1/2	8	3 ½	12 4	12 3			,			<u> </u>											<u> </u>
Exp-woy	4																<u> </u>						ļ				<u> </u>
Freeway	5											<u> </u>															
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Minimum	١									<u> </u>									<u> </u>		<u> </u>						<u> </u>
Slandard .	2														<u> </u>	ļ							<u> </u>		<u></u> .	L	—
Oversize	3																	<u> </u>		<u></u>	<u> </u>	<u></u>			<u> </u>		<u> </u>
Exp-way	4														<u> </u>	<u> </u>					<u> </u>	ļ			<u> </u>		ـــــــ
Freeway ·	5									1			1	1								L		i de la companya de l			NI CONTROL OF

PROJECT LD.	PANANA SHAMAN	SHEEL
PROJECT DESIGNATION	_	

NOTES:

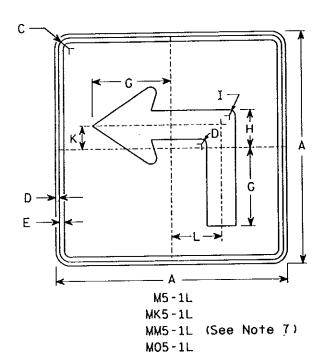
- I. Sign is Type II
- 2. Color:

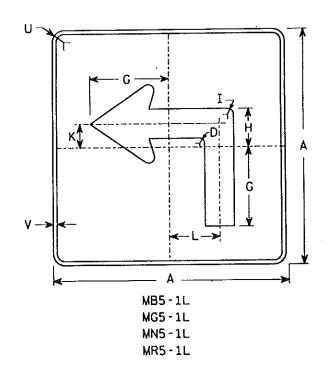
Background — Reflectorized Orange

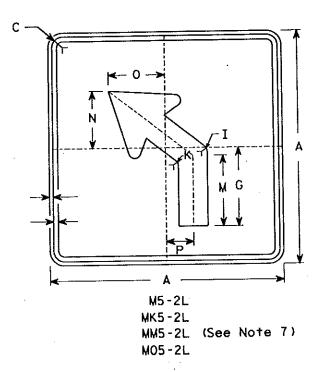
Message — Block

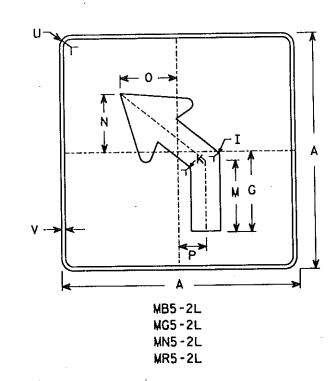
- 3. Foce Moterial Reflective Sheeting
- Corners may be square or rounded when base material is plywood but borders shall be rounded as shown. When base material is metal, the corners and borders shall be rounded.
- 5. Letters Series "B"
- 6. Drawing may be scaled for standard size only.

	•
Date Drawn - 10	7-15-62 Date Rediama — 8-9-72
Date Revised—	9-27-72 ush
9	STANDARD SIGN
	M4-8
OLD CODE M	15-6
WISCOM	SIN DIVISION OF HIGHWAYS
APPROVED	S. E. Hicko
DATE 9/18	STATE MICHWAY ENGINEER 8/12 PLATE NO M4-8.2
The state of the s	DEDLACES OLD PLATE







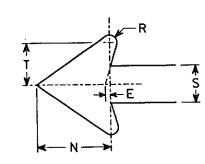


NOTES

- Signs are Type II Reflective reference WIS DOT Standard Specification for ROAD and BRIDGE CONSTRUCTION latest edition
- 2. Color:

Background - See note 4 Message - See note 4

- 3. Corners may be square or rounded when base material is plywood but borders shall be rounded as shown. When base material is metal, the corners and borders shall be rounded.
- 4. M5-1 and M5-2 Background Reflective white Message Black
 - MB5-1 and MB5-2 Background Reflective blue Message - Reflective white
 - MG5-1 and MG5-2 Background Reflective green
 Message Reflective white
 - MK5-1 and MK5-2 Background Non-Reflective green
 - Message Non-Reflective white
 - MM5-1 and MM5-2 Background Reflective white
 - Message Reflective green
 - MN5-1 and MN5-2 Background Reflective brown
 Message Reflective white
 - MO5-1 and MO5-2 Background Reflective orange Message - Black
 - MR5-1 and MK5-2 Background Non-Reflective brown
 Message Non-Reflective yellow
- 5. M5-1R same as M5-1L except arrow points right.
- 6. M5-2R same as M5-2L except arrow tilts right.
- 7. Border shall be omitted on MM series.

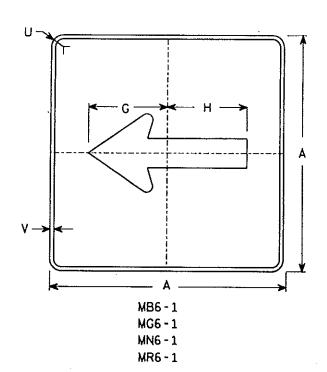


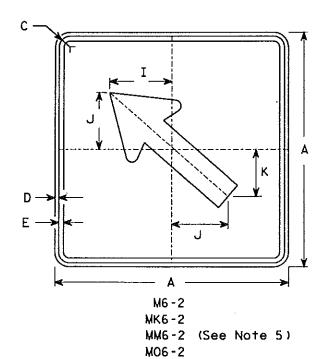
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SIZ	21	В	11/8	3/8	3/8	<u> </u>	7	33/8	5%		21/8	41/2	63/8	51/4	5	21/2		1/2	25/8	3	11/2	1/2		-			3.06
=	21		11/8	3/8	3/8		7	33/8	5/8		21/8	41/2	63/8	51/4	5	21/2		1/2	25/8	3	11/2	1/2					3.06
1		<u> </u>	13/8	1/	78 5/8	<u> </u>	101/8		7/6		3	61/2	91/8	71/2	71/4	31/2		3/4	33/4	41/4	1 1/8	1/2					6.25
5		-	1 3/	1/2	78 5/8		10/8		7/6		3	61/2	91/8	71/2	71/4	31/2	_	3/4	33/4	41/4	1 1/8	1/2					6.25

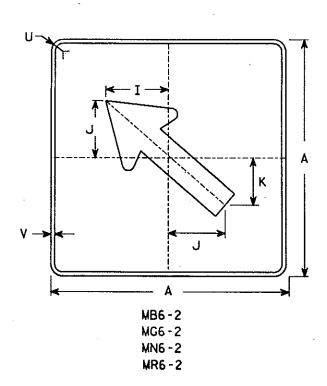
DATE DRAWN 2-1-93 DATE REDRAWN
DATE REVISED
STANDARD SIGNS M5-1 & M5-2 SERIES
WISCONSIN DEPT OF TRANSPORTATION
DATE 2/12/93 PLATE NO. M5-1.3

Ó,

M06-1







NOTES

- Signs are Type II Reflective reference WIS DOT Standard Specification for ROAD and BRIDGE CONSTRUCTION latest edition
- 2. Color:

Background - See note 4
Message. - See note 4

- 3. Corners may be square or rounded when base material is plywood but borders shall be rounded as shown. When base material is metal, the corners and borders shall be rounded.
- 4. M6-1 and M6-2 Background Reflective white Message Black

MB6-1 and MB6-2 Background - Reflective blue Message - Reflective white

MG6-1 and MG6-2 Background - Reflective green
Message - Reflective white

MK6-1 and MK6-2 Background - Non-Reflective green

Message - Non-Reflective white

MM6-1 and MM6-2 Background - Reflective white Message - Reflective green

MN6-1 and MN6-2 Background - Reflective brown
Message - Reflective white

M06-1 and M06-2 Background - Reflective orange Message - Black

MR6-1 and MR6-2 Background - Non-Reflective brown
Message - Non-Reflective yellow

5. Border shall be omitted on MM series.

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W - E	N V

		,		,						•																
A	В	С	D	Ε	F	G	н	11	J	K	L	M	N	0	Р	0	R	S	T	U	٧	W	X	Y	Z	Area sait.
21		11/8	3∕8	3/8		71/2	71/8	5 1/8	5	41/4	51/4	3	25/8	1/2						11/2	1/2					3.06
21		11/8	3/8	3/8	•	71/2	71/8	5 1/8	5	41/4	51/4	3	25/8	1/2				,		11/2	1/2		-			3.06
30		1 3/8	1/2	5/8		10¾	101/4	8	71/4	6	71/2	41/4	3¾	3/4						1 1/8	1/2					6.25
30		1 1/8	1/2	5/8		10¾	101/4	. 8	71/4	6	71/2	41/4	3¾	₹4							1/2					6.25
	21 30	21 30	21 1½ 30 1¾8	21 11/8 3/8 30 13/8 1/2	21 1 ¹ / ₈ 3/ ₈ 3/ ₈ 30 13/ ₈ 1/ ₂ 5/ ₈	21 1 ¹ / ₈ ³ / ₈ ³ / ₈ 30 1 ³ / ₈ ¹ / ₂ ⁵ / ₈	21 11/8 3/8 3/8 71/2 30 13/8 1/2 5/8 103/4	21 11/8 3/8 3/8 71/2 71/8 30 13/8 1/2 5/8 103/4 101/4	21 11/8 3/8 3/8 71/2 71/8 55/8 30 13/8 1/2 5/8 103/4 101/4 8	21 11/8 3/8 3/8 71/2 71/8 55/8 5 30 13/8 1/2 5/8 103/4 101/4 8 71/4	21 11/8 3/8 3/8 71/2 71/8 55/8 5 41/4 30 13/8 1/2 5/8 103/4 101/4 8 71/4 6	21 1 ¹ / ₈ 3 ³ / ₈ 3 ³ / ₈ 7 ¹ / ₂ 7 ¹ / ₈ 5 ⁵ / ₈ 5 4 ¹ / ₄ 5 ¹ / ₄ 30 1 ³ / ₈ 1 ¹ / ₂ 5 ³ / ₈ 10 ³ / ₄ 10 ¹ / ₄ 8 7 ¹ / ₄ 6 7 ¹ / ₂	21 11/8 3/8 3/8 71/2 71/8 55/8 5 41/4 51/4 3 30 13/8 1/2 5/8 103/4 101/4 8 71/4 6 71/2 41/4	21 11/8 3/8 3/8 71/2 71/8 55/8 5 41/4 51/4 3 25/8 30 13/8 1/2 5/8 103/4 101/4 8 71/4 6 71/2 41/4 33/4	21 11/8 3/8 3/8 71/2 71/8 55/8 5 41/4 51/4 3 25/8 1/2 30 13/8 1/2 5/8 103/4 101/4 8 71/4 6 71/2 41/4 33/4 3/4	21 11/8 3/8 3/8 71/2 71/8 55/8 5 41/4 51/4 3 25/8 1/2 30 13/8 1/2 5/8 103/4 101/4 8 71/4 6 71/2 41/4 33/4 3/4	21 11/8 3/8 3/8 71/2 71/8 55/8 5 41/4 51/4 3 25/8 1/2 30 13/8 1/2 5/8 103/4 101/4 8 71/4 6 71/2 41/4 33/4 3/4	21 11/8 3/8 3/8 71/2 71/8 55/8 5 41/4 51/4 3 25/8 1/2 30 13/8 1/2 5/8 103/4 101/4 8 71/4 6 71/2 41/4 33/4 3/4	21 11/8 3/8 3/8 71/2 71/8 55/8 5 41/4 51/4 3 25/8 1/2 30 13/8 1/2 5/8 103/4 101/4 8 71/4 6 71/2 41/4 33/4 3/4	21 11/8 3/8 3/8 71/2 71/8 55/8 5 41/4 51/4 3 25/8 1/2 30 13/8 1/2 5/8 103/4 101/4 8 71/4 6 71/2 41/4 33/4 3/4	21 11/8 3/8 3/8 71/2 71/8 55/8 5 41/4 51/4 3 25/8 1/2 11/2 30 13/8 1/2 5/8 103/4 101/4 8 71/4 6 71/2 41/4 33/4 3/4 11/8	21 11/8 3/8 3/8 71/2 71/8 55/8 5 41/4 51/4 3 25/8 1/2 11/2 1/2 1/2 30 13/8 1/2 5/8 103/4 101/4 8 71/4 6 71/2 41/4 33/4 3/4 11/8 1/2	21	21	$\begin{array}{c ccccccccccccccccccccccccccccccccccc$	21

DATE DRAWN 2-4-93 DATE REDRAWN

DATE REVISED

STANDARD SIGNS

M6-1 & M6-2

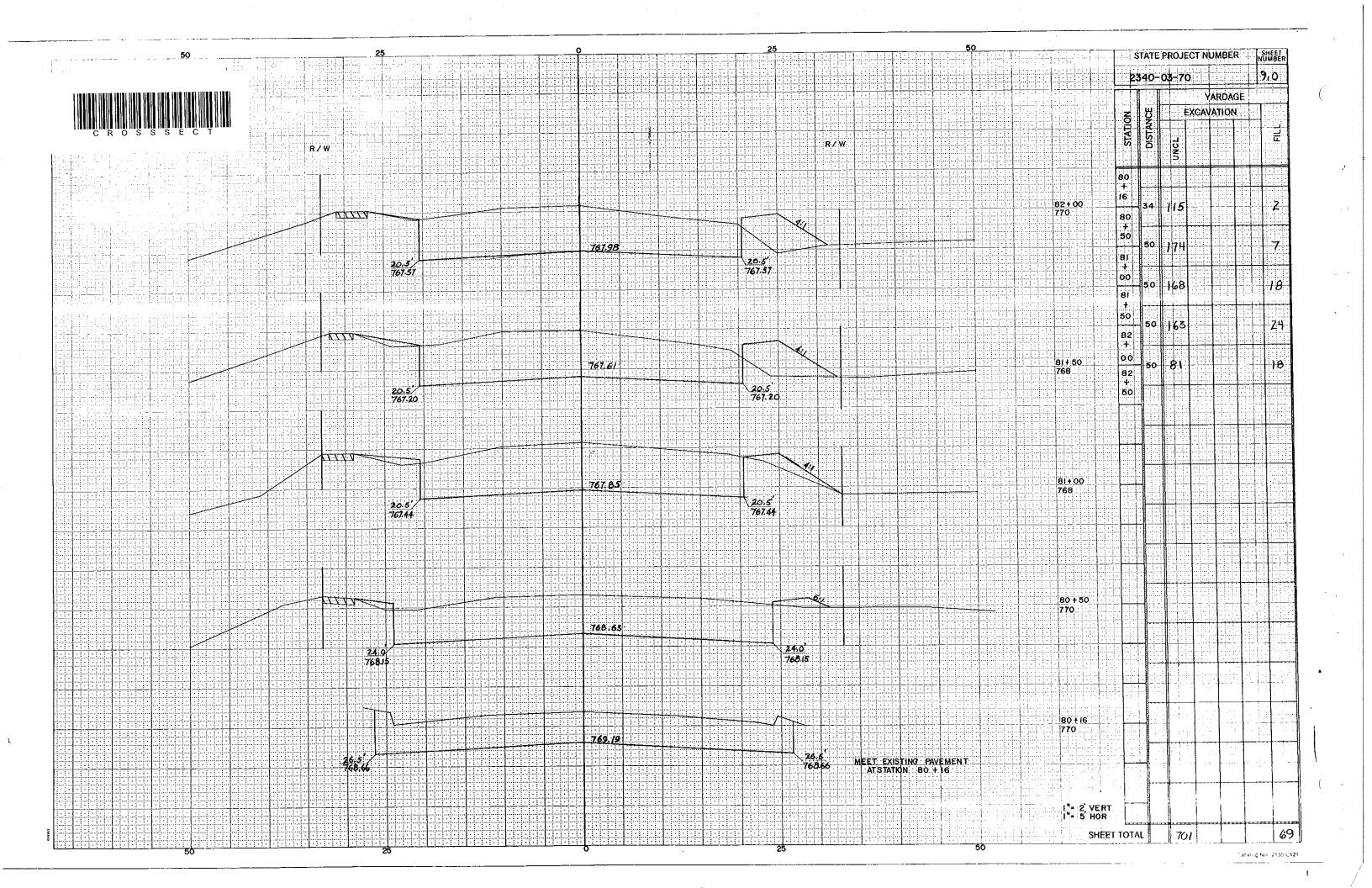
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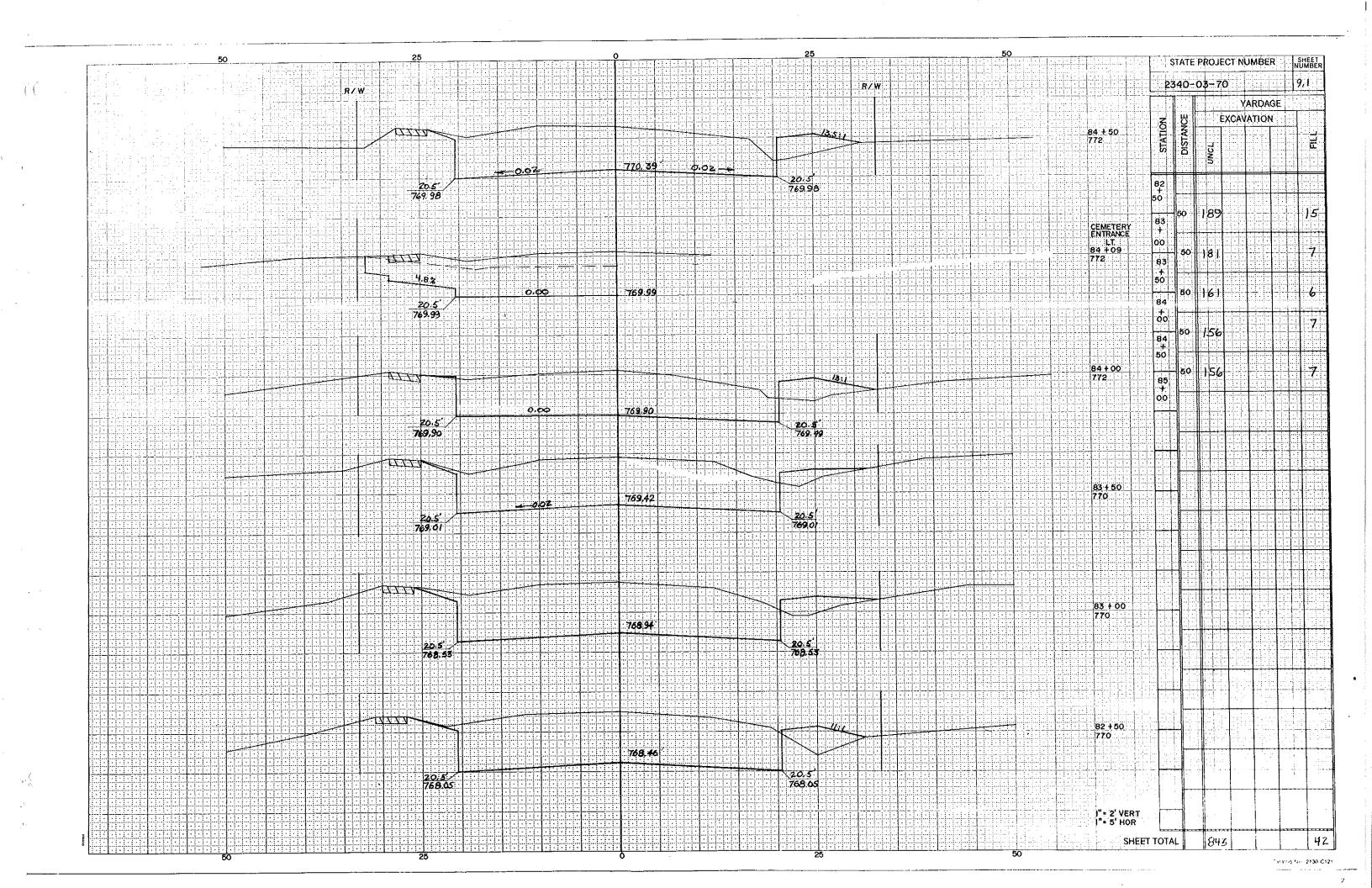
WISCONSIN DEPT OF TRANSPORTATION

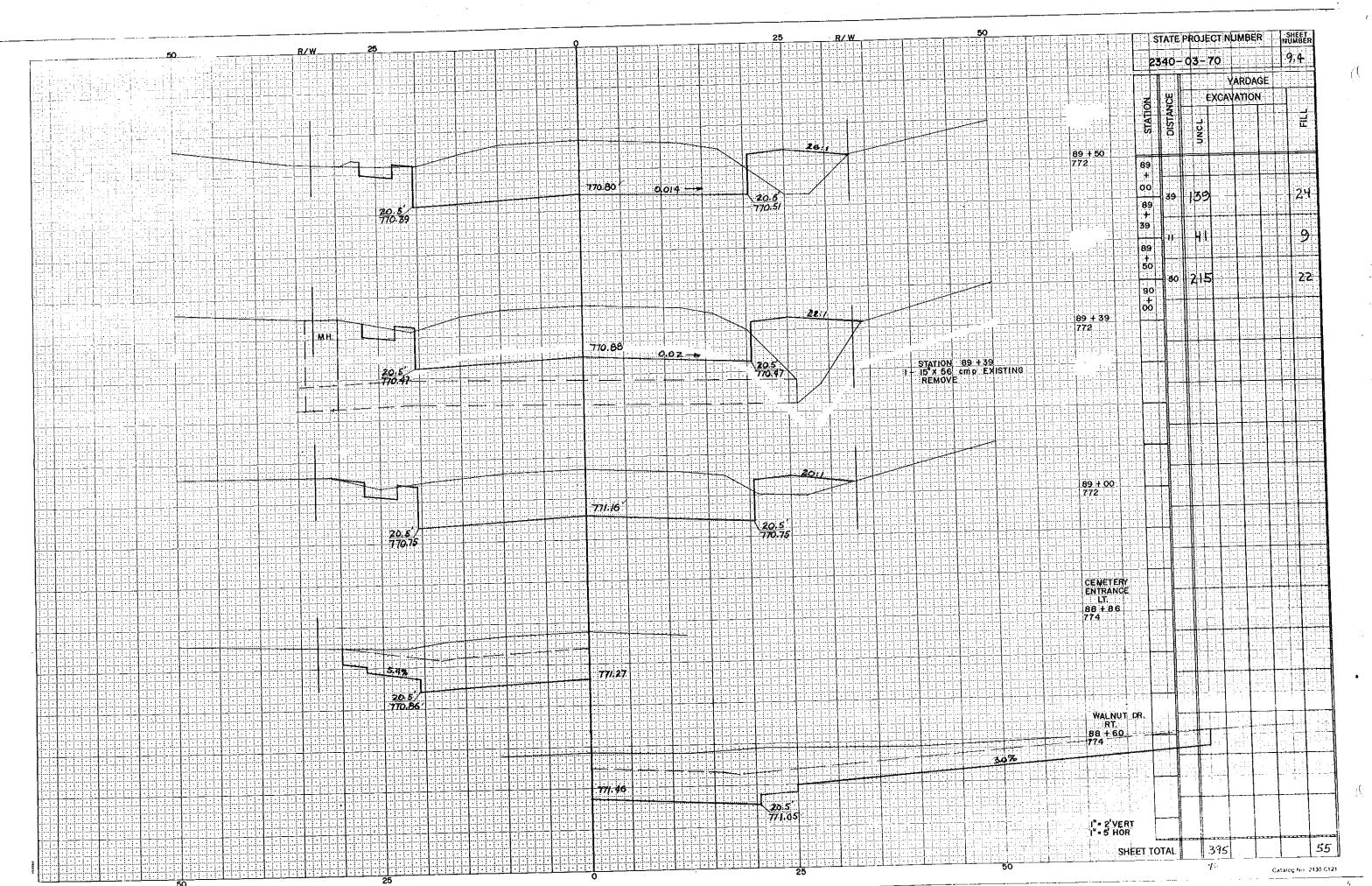
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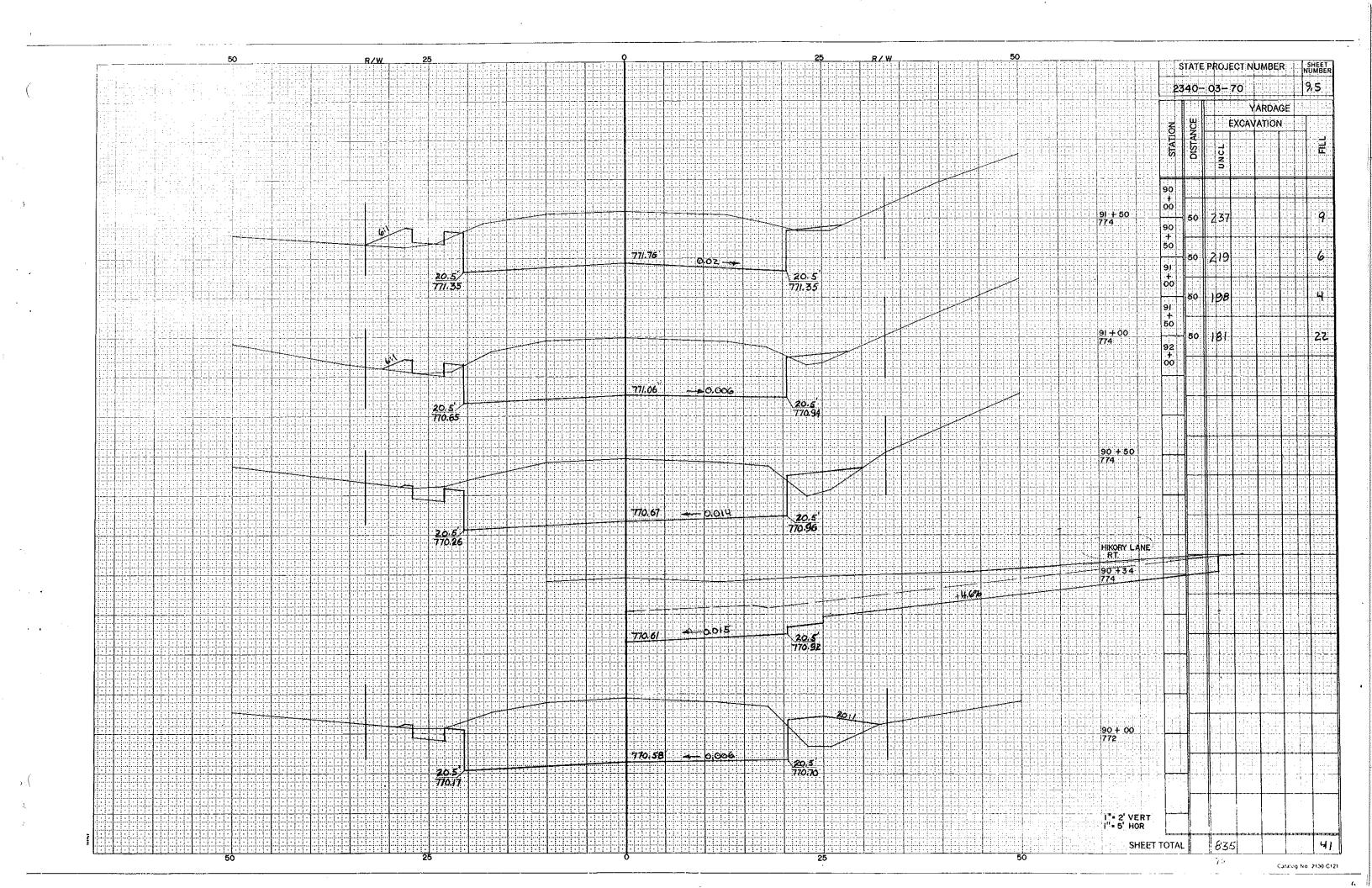
STOTIC TRAINING

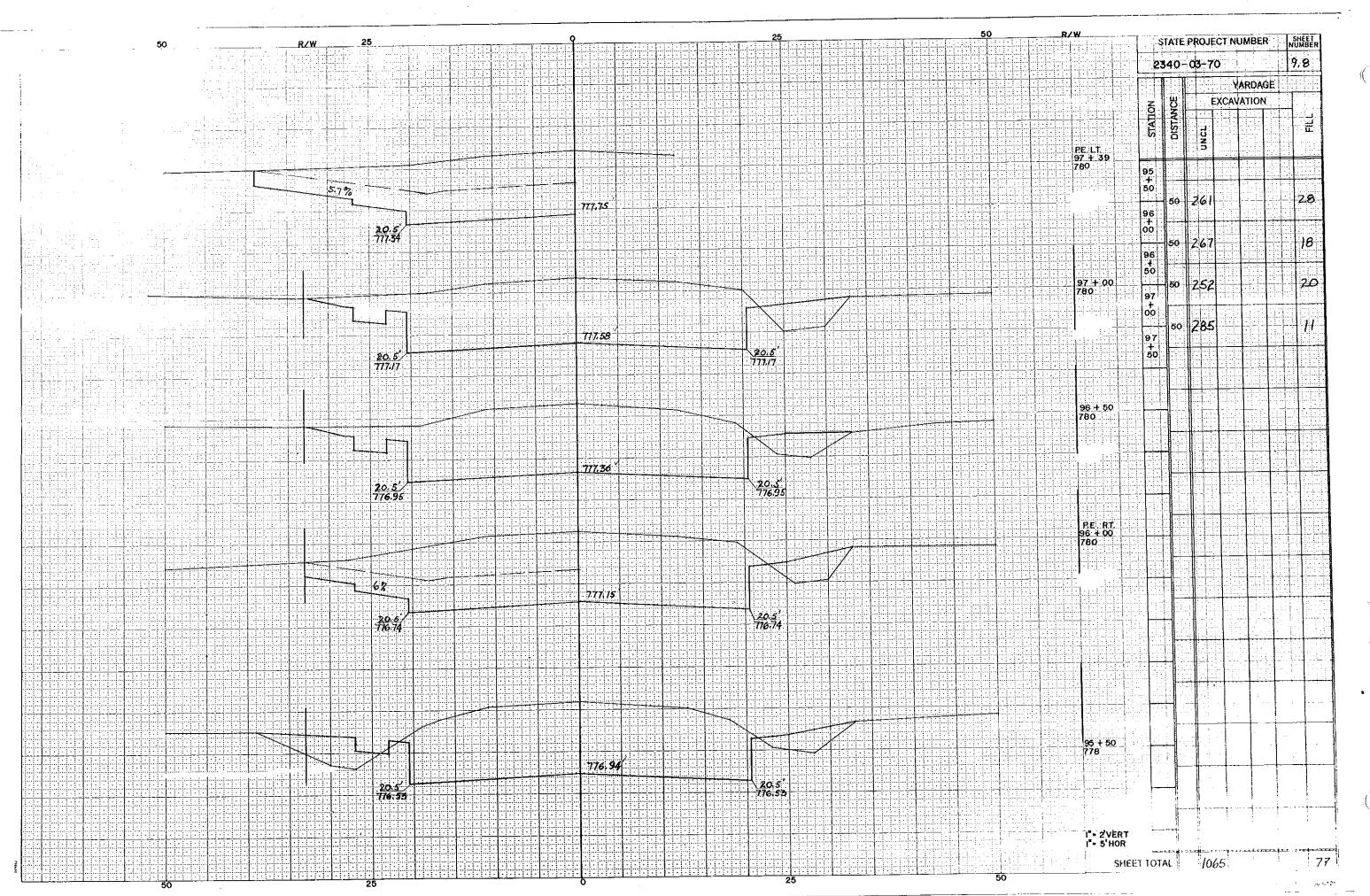
DATE 2/12/93 PLATE NO. M6-1.6



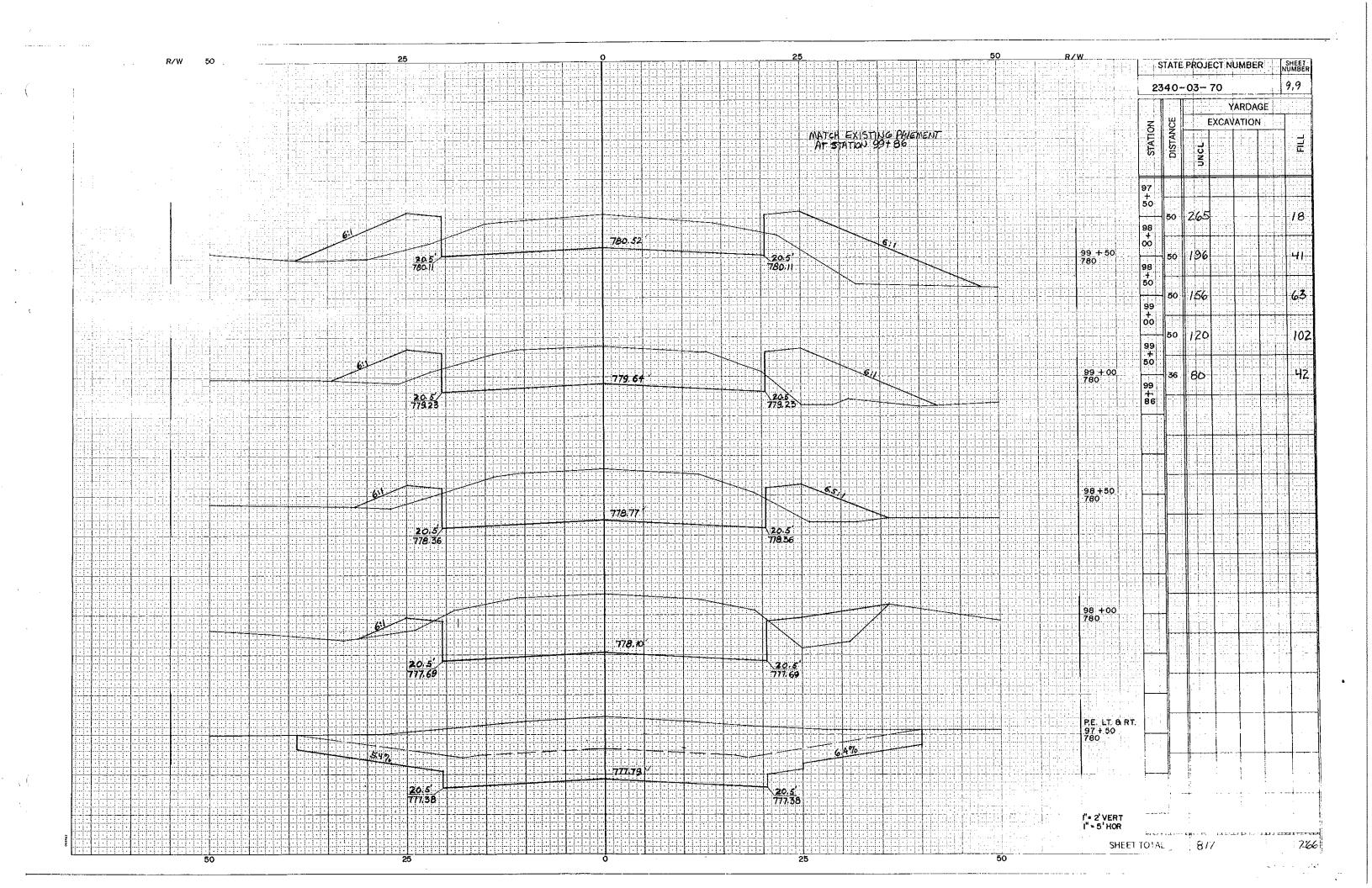


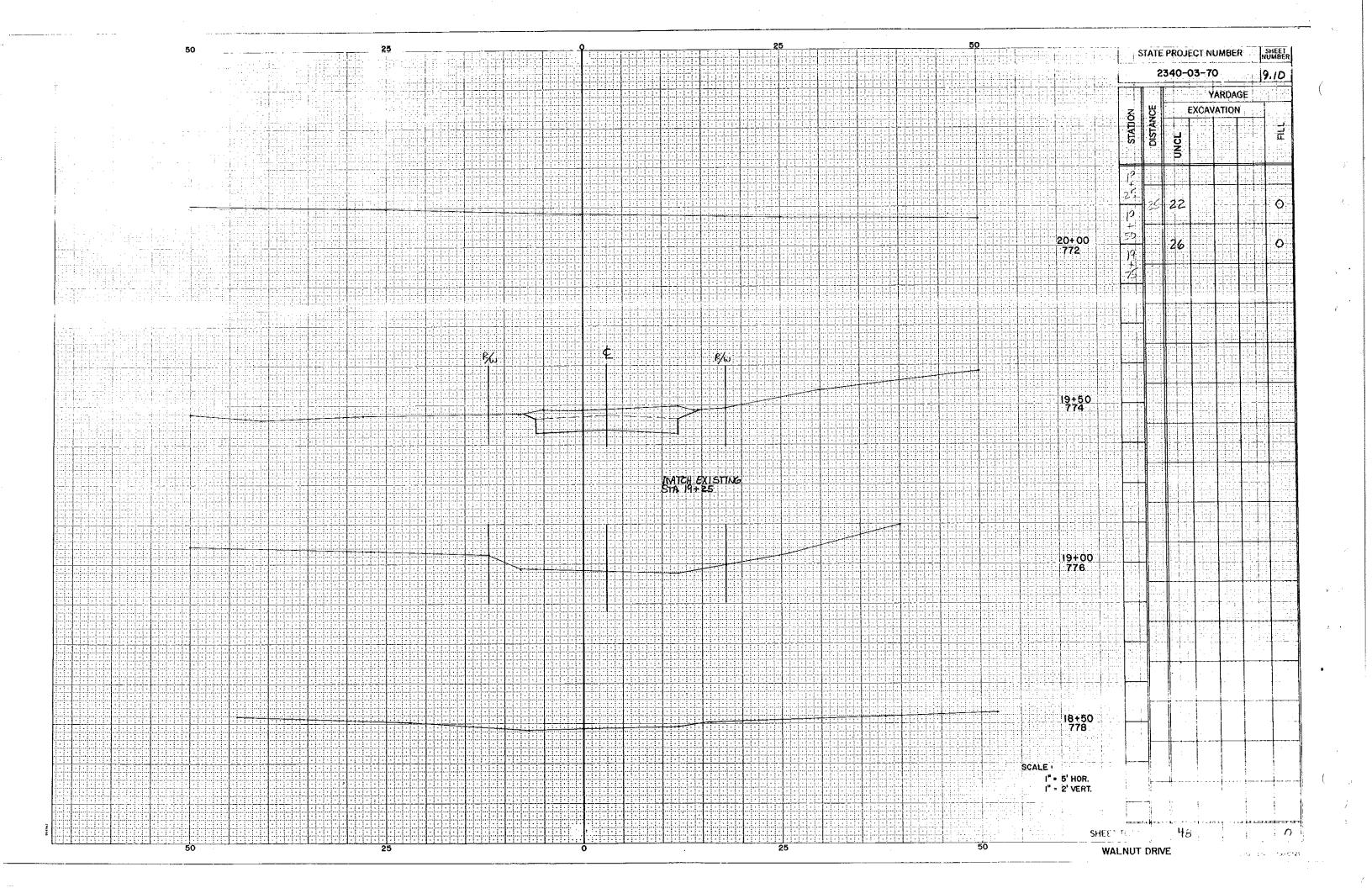


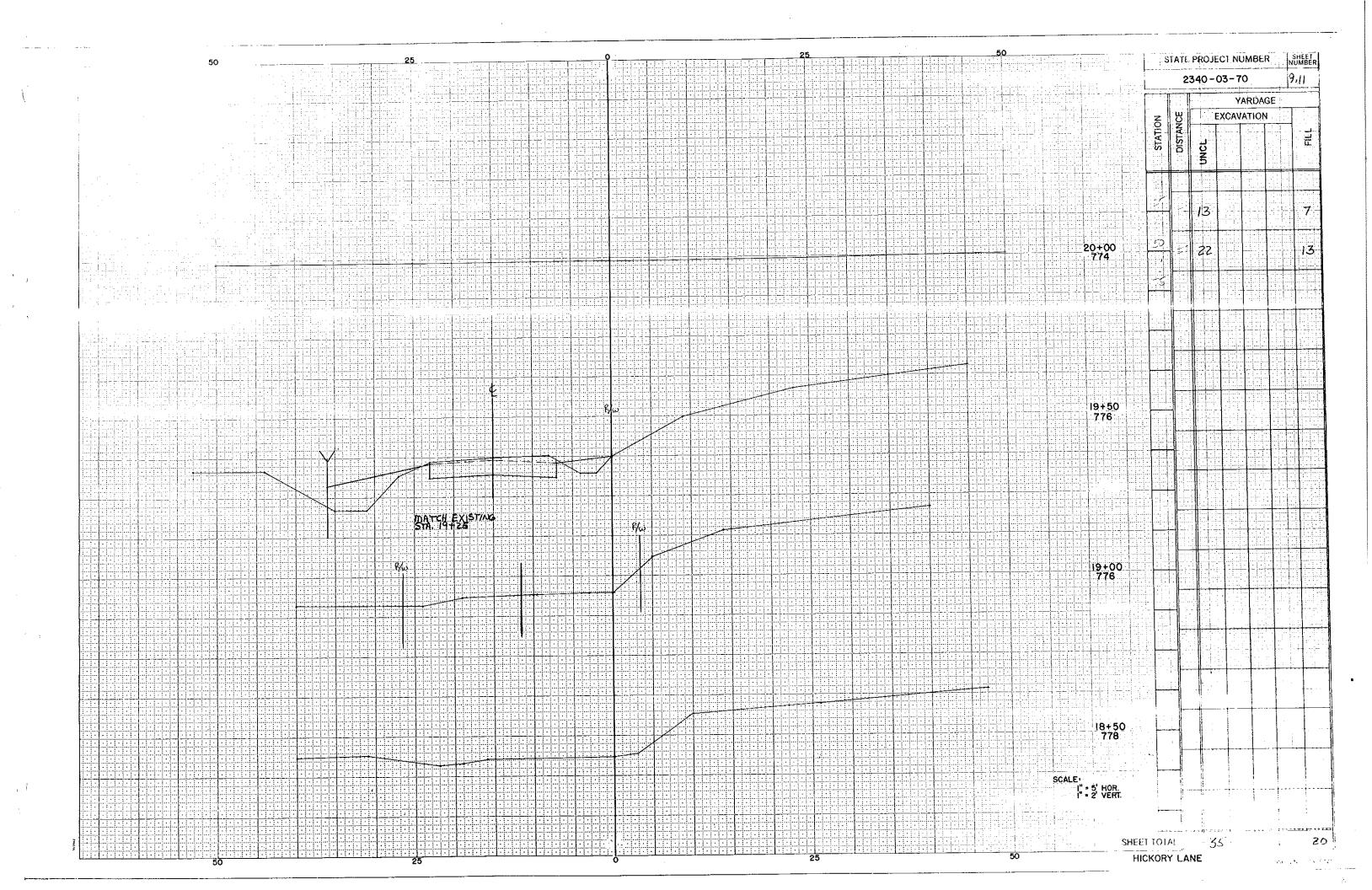


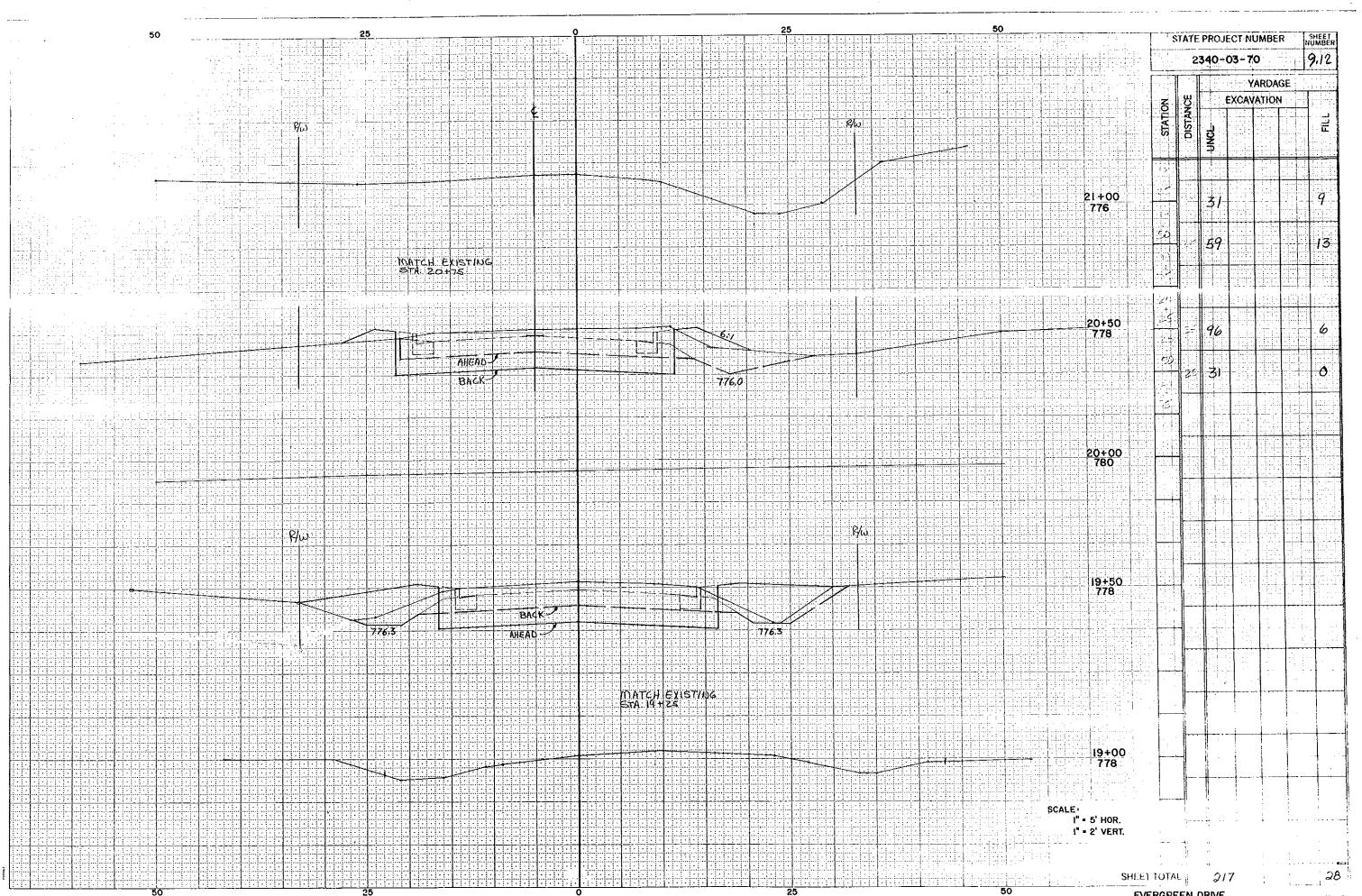


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EVERGREEN DRIVE

10010Z 15160 MAR 10, 1995

TIME=10.21.16

COGO

ICES COGO - COORDINATE GEOMETRY WISCONSIN DEPARTMENT OF TRANSPORTATION JULY, 1972

\$ STH 20 WATERFORD TO STH 36 (DOUG CAIN) 2340-03-70 \$ ALL COO FROM DOT CADDS - PLAN REVISED FROM PSE S 75 N 281850.338 E 480002.010 POINT 75 N 281850.338 E 480002.010 s 78 N 281566.792 E 480012.414 N 281566.792 E 480012.414 POINT 78 S 91 N 280439.701 E 480794.766 POINT 91 N 280439.701 E 480794.766 S 97 N 280018.6710 E 481073.149 97 N 280018.671 E 481073.149 POINT s 110 N 278902.966 E 481811.134 POINT 110 N 278902.966 E 481811.134 2 N 278066.164 E 482286.787 POINT 112 N 278066.164 E 482286.787

S CUR 1 PB 75 PI 78 DEG 13 00 00 PA 91

CURVE 1 TYPE C CURVE ELEMENTS

> 440.737 DEGREE 13 0 0.00 RADIUS 251.265 DELTA 32 39 51.99 LENGTH 129.15 BACK S 2 6 4.97 E TANGENT 18.533 AHEAD S 34 45 56.96 E EXTERNAL LONG CHORD 247.876 17.785 MID. ORD.

			RVE POINTS	CURVE	C	YPE	1	1	CURVE
.119	480448	Е	281712.016	281	N	1	CC	POINT	
.678	480007	Ε	281695.855	281	N	1	PC	POINT	
.058	480086	E	281460.697	281	N	1	PΤ	POINT	
.414	480012	Ε	281566.792	281	N	1	ÞΙ	TRING	

S CUR 2 PB 78 PI 91 DEG 0 15 00 PA 97

WARNING. RADIUS OF CURVE EXCEEDS 20000.

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CURVE 2 TYPE C CURVE ELEMENTS
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RADIUS 22918.312 DEGREE 0 15 0.00 LENGTH 517.335 DELTA 1 17 36.02 TANGENT 258.679 BACK \$ 34 45 56.96 E EXTERNAL 1.46 AHEAD \$ 33 28 20.95 E

LONG CHORD 517.324 MID. ORD. 1.46

CURVE 2 TYPE C CURVE POINTS

£ 461820.109 N 267583.639 S ******** POINT CC 2 E 480647.261 N 280652.203 0+ 0.0 S POINT PC 2 2 ******** E 480937.437 5+17.335 N 280223.924 S POINT PT 2 E 480794.766 2 ********* 2+58.679 N 280439.701 POINT PI 2

S CUR 3 PB 97 PI 110 DEG 0 45 00 PA 112

CURVE 3 TYPE C CURVE ELEMENTS

RADIUS 7639.437 DEGREE 0 45 0.00 LENGTH 515.74 DELTA 3 52 4.98 TANGENT 257.968 BACK S 33 28 57.76 E EXTERNAL 4.354 AHEAD S 29 36 52.79 E LONG CHORD 515.642

LONG CHORD 515.642 MID. ORD. 4.352

CURVE 3 TYPE C CURVE POINTS

\$ ******* E 475297.126 N 274903.559 POINT CC 3 s 0+ 0.0 E 481668.817 N 279118.125 POINT PC 3 E 481938.613 S 5+15.740 2 ******** N 278678.697 POINT PT 3 2+57,968 2 ******** E 481811.134 N 278902.966 POINT PI 3

S CHA '20' 75 CUR 1 CUR 2 97 CUR 3 112

STA CHA '20' FROM 75 75+47.46 AHEAD 112

DES CHA '20'

DESCRIPTION OF CHAIN 20

CHAIN ELEMENTS

COURSE FROM 75 TO PC 1 LENGTH 154.587 BEARING S 2 6 4.97 E

CURVE 1 TYPE C CURVE ELEMENTS

RADIUS 440.737 DEGREE 13 0 0.00 LENGTH 251.265 DELTA 32 39 51.99 TANGENY 129.15 BACK S 2 6 4.97 E EXTERNAL 18.533 AHEAD S 34 45 56.96 E

LONG CHORD 247.876 MID. ORD. 17.785

COURSE FROM F	PT 1 TO PC 2 L	ENGTH 984.181	BEARING S 34 45 56	5.96 E
CURVE 2 TYPE	C CURVE ELEMENTS	, , ,		
COURSE FROM COURSE FROM		ENGTH 246.062 ENGTH 1079.724	BEARING S 33 28 20 BEARING S 33 28 57	
CURVE 3 TYPE	C CURVE ELEMENTS			
RADIUS LENGTH TANGENT EXTERNAL LONG CHORD MID. ORD.				
COURSE FROM	PT 3 TO 112	LENGTH 704.572	BEARING S 29 36 5	2.79 E
	POINTS		- 75.47.440 7	*****
POINT 75	•	E 480002.010	s 75+47.460 Z	, 9 E -
POINT CC 1 POINT PC 1 POINT PT 1 POINT PI 1	N 281695.855	E 480448.119 E 480007.678 E 480086.058 E 480012.414	s 77+ 2.047 Z s 79+53.312 Z	************ 3 PAD 440.737 ***********************************
CURVE 2 TYPE	C CURVE POINTS			
POINT CC 2 POINT PC 2 POINT PT 2 POINT P1 2	N 280652.203	E 461820.109 E 480647.261 E 480937.437 E 480794.766	s 89+37.493 Z s 94+54.828 Z	************** 3 RAD. ZZ,918,372 **************
POINT 9	7 N 280018.671	E 481073.149	s 97+ 0.891 Z	*******
CURVE 3 TYPE				5 · 001
		E 475297.126 E 481668.817 E 481938.613 E 481811.134	s 107+80.615 z s 112+96.354 z	*********** - 2110 ALT ac ************* ***********
POINT 11		E 482286.787	s 120+ 0.927 Z	*****
	N 100000 26 ALI			
LAYOUT C	CORDINATES FOR CHAIN 20			
POINT 7	5 N 281850.338	E 480002.010	s 75+47.460 Z	******

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POINT PC 1
                                         E 480007.678
                        N 281695.855
                                                            77+ 2.047
                        N 281460.697
                                         E 480086.058
                                                          s 79+53.312
        POINT PT 1
        POINT PC 2
                        N 280652.203
                                         E 480647.261
                                                          s 89+37.493
        POINT PT 2
                        N 280223.924
                                         E 480937.437
                                                          s 94+54.828
                        N 280018.671
                                         E 481073.149
                97
                                                          s 97+ 0.891
        POINT
                                                          s 107+80.6<u>15</u>
        POINT PC 3
                        N 279118.125
                                         E 481668.817
        POINT PT 3
                        N 278678.697
                                                          s 112+96.354
                                         E 481938.613
        POINT
                        N 278066.164
                                         E 482286.787
                                                          s 120+ 0.927
               112
PRI ALL POI S. CTL
                75 ft. T N 281850.338
       POINT
                                      E 480002.010 S 75+47.460
                78
                        N 281566.792
                                      E 480012.414 S *********
        POINT
                        N 280439.701
                                       E 480794.766 S *********
        POINT
                91
                                        E 481073.149 S
        POINT
                        N 280018.671
                                                             97+ 0.891
                97
                        N 278902.966
                                       E 481811.134
        POINT
               110
                       N 278066.164
                                        E 482286.787 S 120+ 0.927
        POINT
               112
                                                         CEN P.K.TIE PI. 97+02.29, 40.17 LT. EL779.385
        CHT - 96 11 620334.660 3 E 481107.436 47174 - 00 N 281118,900 E 480355.220.

O ERRORS CAUSED COMMAND ABORT.
        CHTL -96
FINISH
                                                              DOT HOLE SO, WAK
          O ATTEMPTS TO USE UNSTORED OBJECTS.
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LATESTBS (23) 061485

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SZ ZEGGGE AECETE
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CNIL 100 N 279 789.31 & 48/283.47 P.D OFS NION HWY 36, STH GO COOKDS C.P. 911 2XZ HUB NEHIL P.P TIE PI 91 STA 9Z+19.5B5@ 36.947 RT N 280 398,750 & 480774,060 NO ELV.

-20 - 3°

N Z80 398, 53 Z Prop Pipe RTof CiP. 91 e 480 778.12 5 EL. 775.80

92120,92