

X

5991-5-20  
La Crosse

Aug '76  
80 Sets

Index of Sheets

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TOTAL SHEETS = 23



Design Designation

A.D.T.	= 15,000
A.D.T.	= 15,000
D.H.V. (ONE WAY)	= 1,080
D.	= 60
T.	= 8%
V.	= 25 MPH

Conventional Signs

County Line		Culverts in Place	
Township or Range Line		Culverts Required	
Section Line		Drop Inlet	
New Right of Way Line		Power Pole	
Present Right of Way Line		Telephone or Telegraph Pole	
Wire Fence		Right of Way Markers	
Corporate or City Limits		Reference Stake for Hubs Only	
Property Line		Marsh	
Traveled Way or P.E.		Hedge	
Railroads		Trees	
Base or Survey Line		Ground Elevation	
Caution Symbol (combustible fluids under pressure)		Grade Elevation	

STATE OF WISCONSIN

DEPARTMENT OF TRANSPORTATION  
DIVISION OF HIGHWAYS

PLAN AND PROFILE OF PROPOSED  
LANG DRIVE, CITY OF LA CROSSE

MONITOR ST. - ST. ANDREW ST.

S.T.H. 35

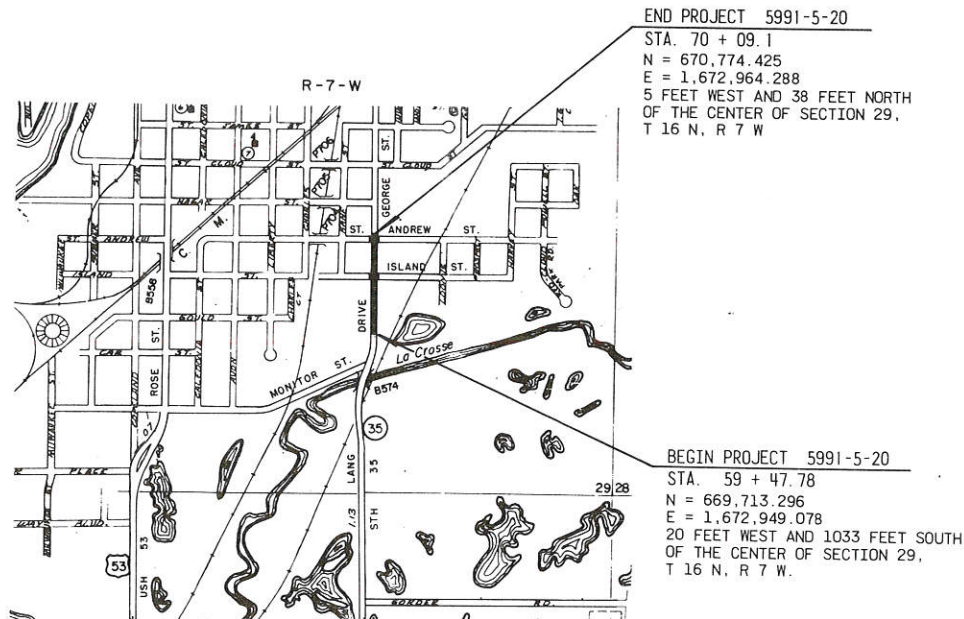
LA CROSSE COUNTY

STATE PROJECT NUMBER  
5991-5-20

Scales  
Plan 1 in. = 20 ft.  
Profile Hor. 1 in. = 20 ft. Vert. 1 in. = 2 ft.  
Cross Sections Hor. 1 in. = 5' Vert. 1 in. = 2'

GN

T-16-N



Layout  
Scale 0 1000'

Total Net Length of Centerline = 0.201 Mi. URBAN

NOTE:  
ALL COORDINATES SHOWN ON THIS PLAN  
ARE REFERENCED TO THE WISCONSIN  
COORDINATE SYSTEM SOUTH ZONE

STATE PROJECT	FEDERAL PROJECT	
	PROJECT	CONTRACT
5991 - 5 - 20	M 4202 (003)	1

APPROVED FOR  
CITY OF LA CROSSE

5-21-76  
DATE  
*Bernard A. Mullenbach*  
CITY ENGINEER

STATE OF WISCONSIN  
DEPARTMENT OF TRANSPORTATION  
DIVISION OF HIGHWAYS

Surveyor: D.E.K. District Checker: R.V.R.  
Designer: G.N.D. C.O. Checker: L.L.V.

Correct:

Date: 6/25/76 *R. L. Schmitt*  
District Engineer

Recommended for Approval:

Date: 6/15/76 *D. J. Strand*  
Chief of Facilities Development

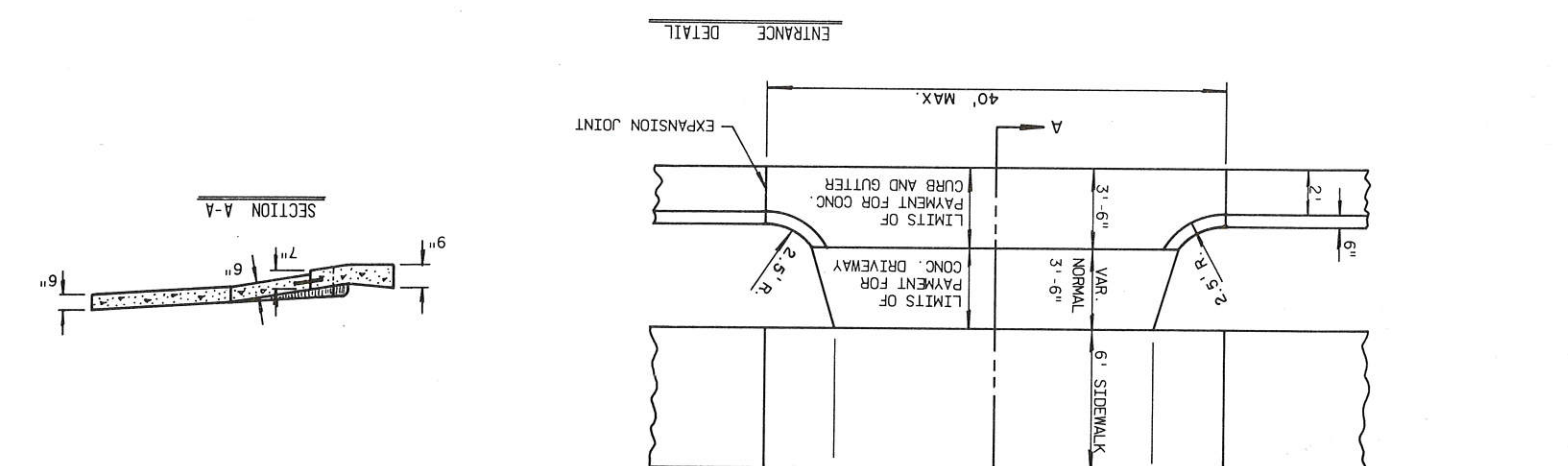
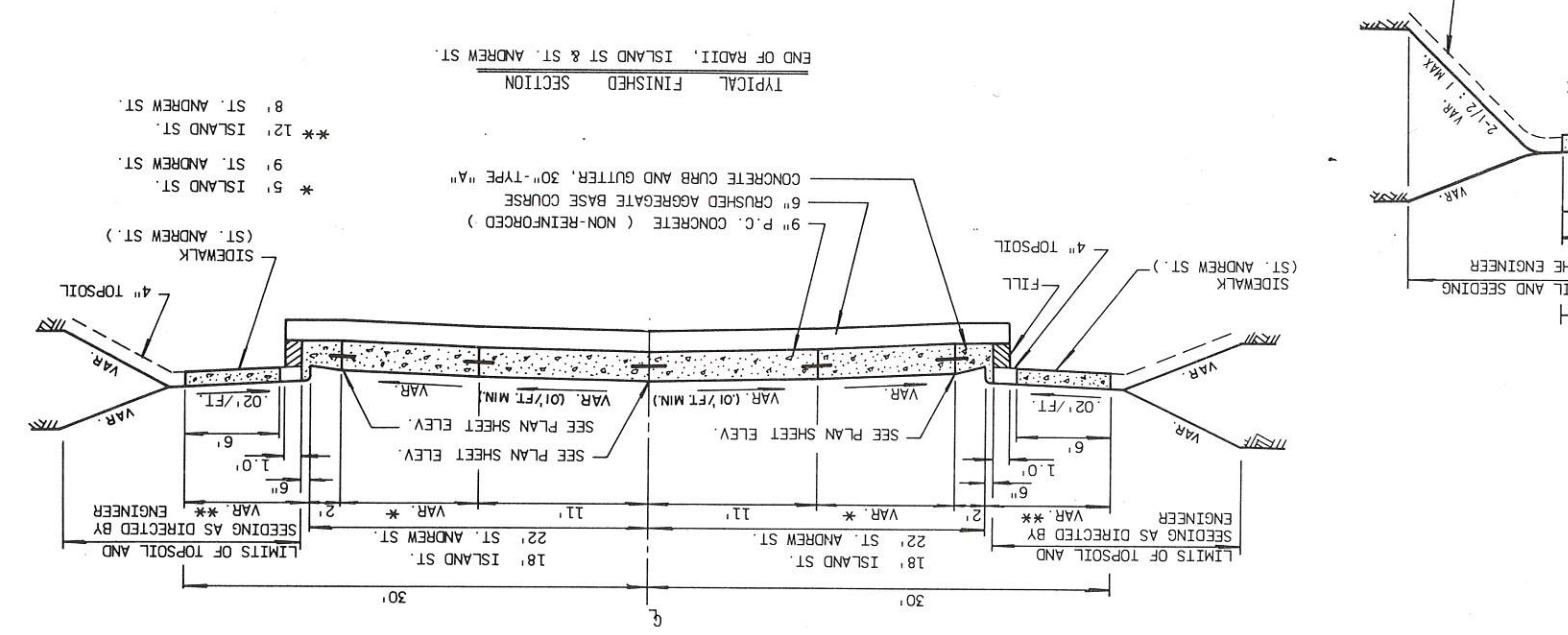
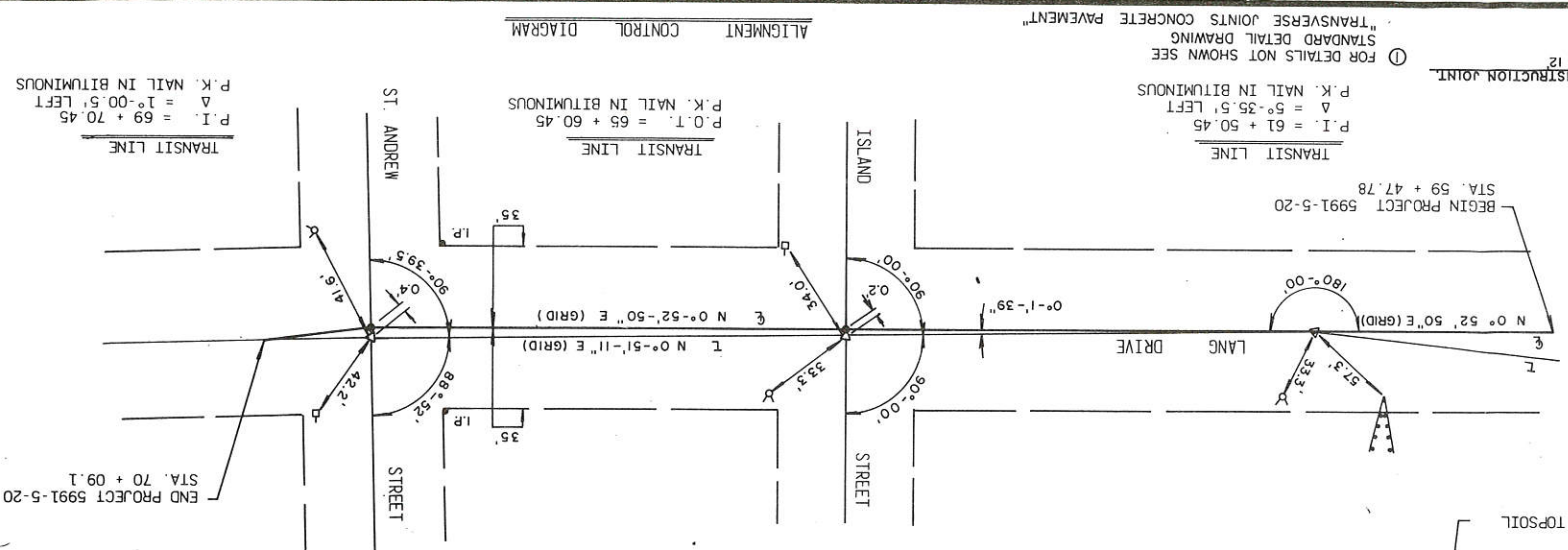
Approved:

Date: 6/21/76 *R. J. Fisher*  
District Highway Engineer

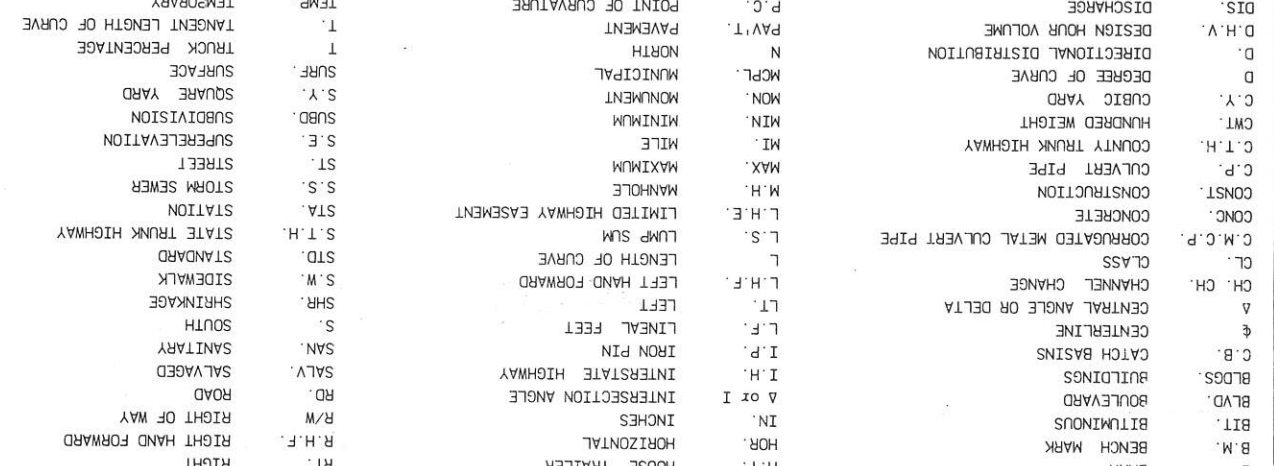
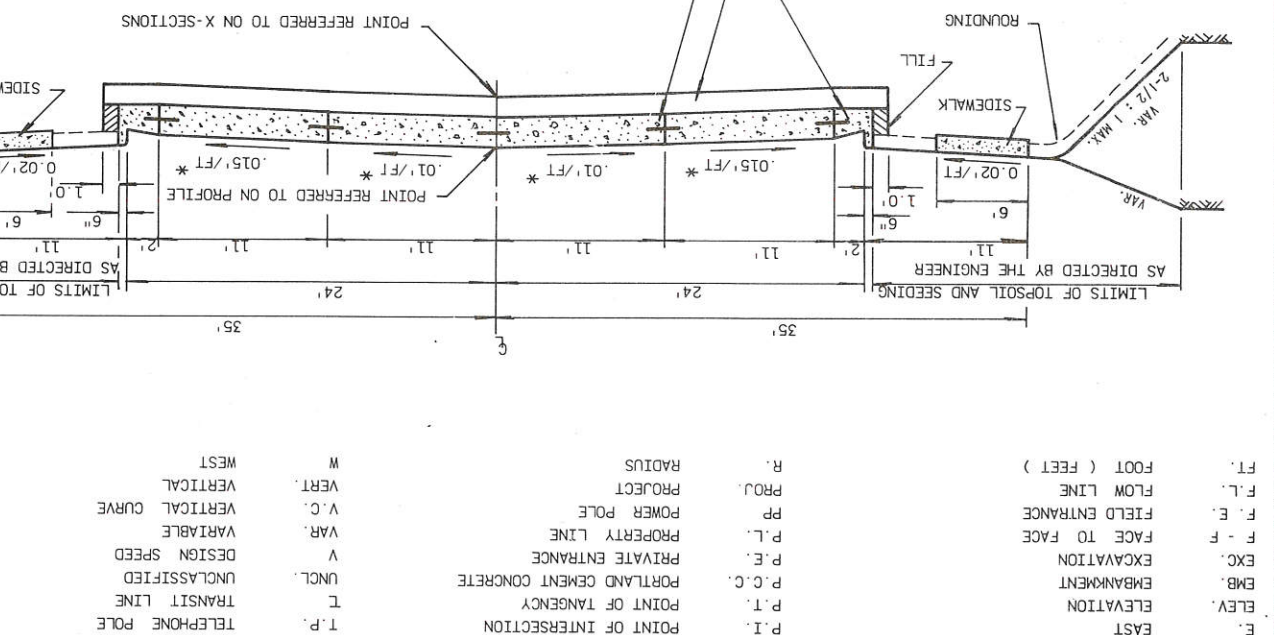
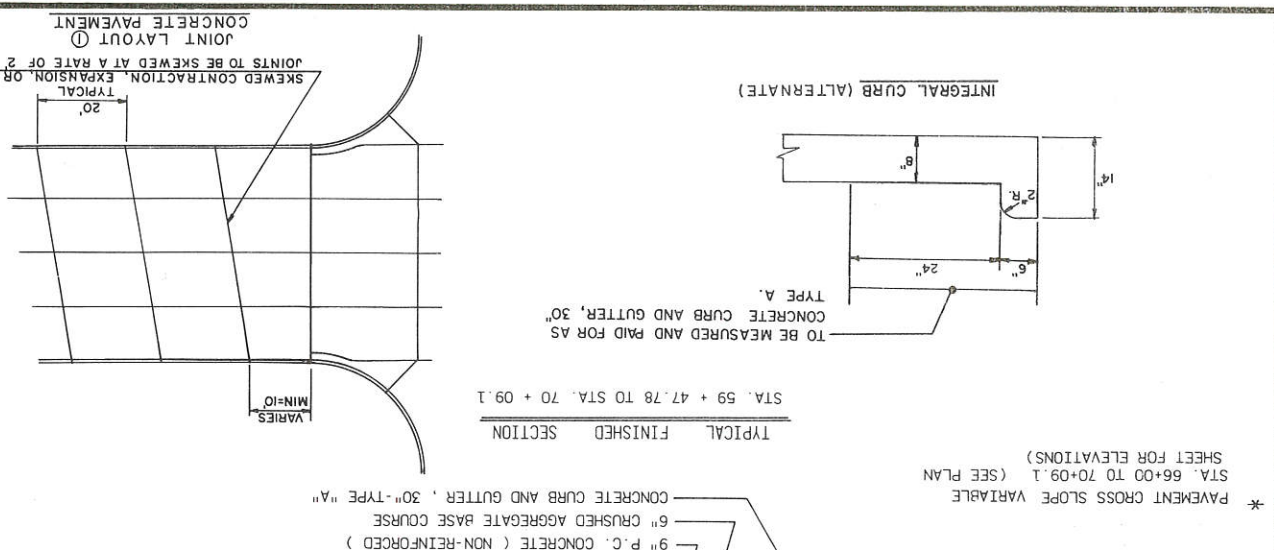
U.S. DEPARTMENT OF TRANSPORTATION  
FEDERAL HIGHWAY ADMINISTRATION  
REGION 5 WISCONSIN DIVISION

Approved:

Date: \_\_\_\_\_  
Division Engineer



STATE PROJECT NUMBER	5991 - 5 - 20
TYPICAL CROSS SECTION	2
SHEET NO.	2

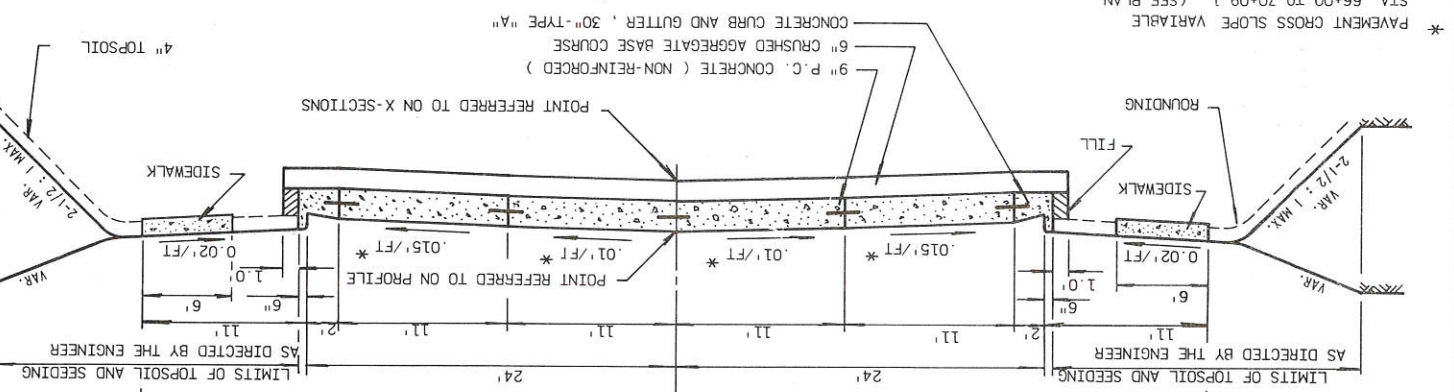
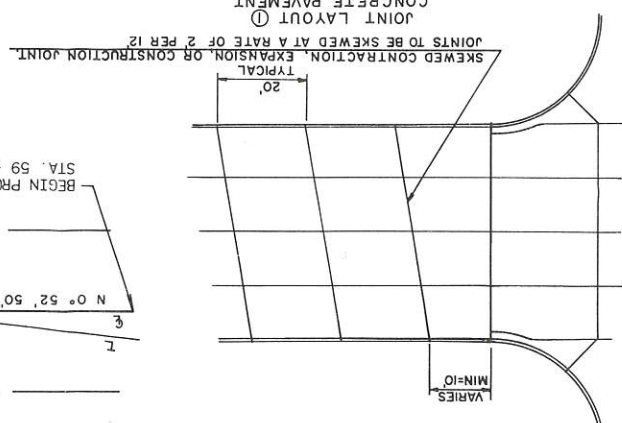


STANDARD ABBREVIATIONS	
A.D.T.	AVERAGE DAILY TRAFFIC
A.H.	AHEAD
ET. AL.	AND OTHERS
H.P.	HIGH POINT
R.C.P.	REINFORCED CONCRETE PIPE, STORM SEWER
R.C.P.S.	REINFORCED CONCRETE PIPE, STORM SEWER
R.R.	RAILROAD
R.H.F.	RIGHT HAND FORWARD
R.H.F.	RIGHT HAND FORWARD
R/W	RIGHT OF WAY
RD.	ROAD
SALV.	SALVAGED
SAN.	SANITARY
S.	SOUTH
SHR.	SHRINKAGE
S.M.	SIDEWALK
S.M.	SIDEWALK
STD.	STANDARD
S.T.H.	STATE TRUNK HIGHWAY
STA.	STATION
S.S.	STORM SEWER
ST.	STREET
S.E.	SUPERELEVATION
SUBD.	SUBDIVISION
S.Y.	SQUARE YARD
SURF.	SURFACE
T.	TANGENT LENGTH OF CURVE
TEMP.	TEMPORARY
T.P.	TELEPHONE POLE
T.	TRANSIT LINE
UNCL.	UNCLASSIFIED
V.	DESIGN SPEED
VAR.	VARIABLE
V.C.	VERTICAL CURVE
VERT.	VERTICAL
W.	WEST
R.	RADIUS
PROJ.	PROJECT
P.P.	POWER POLE
P.L.	PROPERTY LINE
P.E.	PRIVATE ENTRANCE
P.C.C.	PORTLAND CEMENT CONCRETE
P.T.	POINT OF TANGENCY
P.I.	POINT OF INTERSECTION
P.C.	POINT OF CURVATURE
DIS.	DISCHARGE
D.H.V.	DESIGN HOUR VOLUME
D.	DIRECTIONAL DISTRIBUTION
D.	DEGREE OF CURVE
C.Y.	CUBIC YARD
C.M.T.	HUNDRED WEIGHT
C.T.H.	COUNTY TRUNK HIGHWAY
C.P.	CULVERT PIPE
CONST.	CONSTRUCTION
C.M.C.P.	CORRUGATED METAL CULVERT PIPE
CL.	CLASS
CH. CH.	CHANNEL CHANGE
Δ	CENTRAL ANGLE OR DELTA
Δ	CENTRAL ANGLE OR DELTA
C.B.	CATCH BASINS
B.D.S.	BUILDINGS
B.L.V.D.	BOULEVARD
BT.	BITUMINOUS
B.M.	BENCH MARK
B.	BARN
BACK.	BACK
H.	HOUSE
H.P.	HIGH POINT
G.	GALLON
G.	GARAGE

STANDARD ABBREVIATIONS

\* PAVEMENT CROSS SLOPE VARIABLE (SEE PLAN STA. 66+00 TO 70+09.1) (SEE PLAN SHEET FOR ELEVATIONS)

TYPICAL FINISHED SECTION  
STA. 59 + 47.78 TO STA. 70 + 09.1  
TO BE MEASURED AND PAID FOR AS CONCRETE CURB AND GUTTER, 30" TYPE A.



- FOOT ( FEET )
- F.L. FLOW LINE
- F.E. FIELD ENTRANCE
- F.F. FACE TO FACE
- EXC. EXCAVATION
- EMB. EMBANKMENT
- ELEV. ELEVATION
- E. EAST
- P.C. POINT OF CURVATURE
- DIS. DISCHARGE
- D.H.V. DESIGN HOUR VOLUME
- D. DIRECTIONAL DISTRIBUTION
- D. DEGREE OF CURVE
- C.Y. CUBIC YARD
- C.M.T. HUNDRED WEIGHT
- C.T.H. COUNTY TRUNK HIGHWAY
- C.P. CULVERT PIPE
- CONST. CONSTRUCTION
- C.M.C.P. CORRUGATED METAL CULVERT PIPE
- CL. CLASS
- CH. CH. CHANNEL CHANGE
- Δ CENTRAL ANGLE OR DELTA
- Δ CENTRAL ANGLE OR DELTA
- C.B. CATCH BASINS
- B.D.S. BUILDINGS
- B.L.V.D. BOULEVARD
- BT. BITUMINOUS
- B.M. BENCH MARK
- B. BARN
- BACK. BACK
- H. HOUSE
- H.P. HIGH POINT
- G. GALLON
- G. GARAGE
- R. RADIUS
- PROJ. PROJECT
- P.P. POWER POLE
- P.L. PROPERTY LINE
- P.E. PRIVATE ENTRANCE
- P.C.C. PORTLAND CEMENT CONCRETE
- P.T. POINT OF TANGENCY
- P.I. POINT OF INTERSECTION
- P.C. POINT OF CURVATURE
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- D.H.V. DESIGN HOUR VOLUME
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- B. BARN
- BACK. BACK
- H. HOUSE
- H.P. HIGH POINT
- G. GALLON
- G. GARAGE

# ESTIMATE OF QUANTITIES

CONTRACT NO. 1  
GRADING, BASE, P.C. CONCRETE SURFACING

STATE PROJECT NUMBER	SHEET NO.
5991 - 5 - 20	3

STATION TO STATION	NET LENGTH OF CENTER LINE	GRUBBING	REMOVING PAVEMENT	REMOVING CURB AND GUTTER	REMOVING CONCRETE SIDEWALK	REMOVING CATCH BASINS	UNCLASSIFIED EXCAVATION	CRUSHED AGGREGATE BASE COURSE	CONCRETE PAVEMENT 9- INCH	CONCRETE DRIVEWAY	CONCRETE CURB AND GUTTER 30-INCH TYPE "A"	CONCRETE SIDEWALK 4- INCH	CONCRETE SIDEWALK 6- INCH	REINFORCED CONCRETE PIPE CLASS III STORM SEWER 12-INCH	REINFORCED CONCRETE PIPE CLASS III STORM SEWER 24-INCH	CATCH BASIN TYPE 1	MANHOLE TYPE 3	CATCH BASIN COVERS TYPE "H"	MANHOLE COVER TYPE "J"	ADJUSTING MANHOLE COVERS	METAL CONDUIT 2-INCH	CALCIUM CHLORIDE SURFACE TREATMENT	TOPSOIL	FERTILIZER	SEEDING	BITUMINOUS CONCRETE PAVEMENT PRE-MIXED
59 + 47.78 - 70 + 09.1	1061.32	2	171	132	34	2	4361	1830	5722	232	2051	7735	3781	62	38	4	1	4	1	13	194	1	1300	1	25	134
<b>TOTAL</b>	1061.32	2	171	132	34	2	4361	1830	5722	232	2051	7735	3781	62	38	4	1	4	1	13	194	1	1300	1	25	134

GENERAL NOTES

1. WHEN THE QUANTITY OF THE ITEM OF BASE IS MEASURED FOR PAYMENT BY THE TON OR CUBIC YARD, THE DEPTH OR 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.
2. TOPSOIL SHALL BE PLACED AS SHOWN ON THE PLANS TO AN APPROXIMATE DEPTH OF FOUR (4) INCHES AT THE TIME OF PLACEMENT.
3. ALL COORDINATES SHOWN ON THIS PLAN ARE REFERENCED TO THE WISCONSIN COORDINATE SYSTEM SOUTH ZONE.
4. THE EXACT LOCATION OF PRIVATE ENTRANCES TO BE DETERMINED IN THE FIELD BY THE ENGINEER.
5. SUBTRACT 600.99 FEET TO CONVERT FROM U.S.G.S. (1929 ADJ.) TO CITY DATUM
6. SAW CUTS DENOTED ON THE PLANS SHALL BE INCIDENTAL TO THE COST OF OTHER CONTRACT ITEMS.
7. LOCATION OF GAS LINES AS SHOWN ON PLAN ARE APPROXIMATE.

STANDARD DETAIL DRAWINGS

- 8A5-2 CATCH BASIN, MANHOLE & INLET COVERS
- 8A6-2 CATCH BASIN, TYPE 1 & 2
- 8B7-2 MANHOLES, TYPE 2 & 3
- 8D1-2 CONCRETE CURB, GUTTER, COMBINATION CURB & GUTTER
- 8D5-2 CURB RAMP FOR HANDICAPPED PERSONS
- 9B2-1 METAL CONDUIT & FIBER CONDUIT
- 13C1-2 LONGITUDINAL JOINTS, CONCRETE PAVEMENT
- 13C4-3 TRANSVERSE JOINTS IN NON-REINFORCED CONCRETE PAVEMENT
- 15C1-4 CONSTRUCTION BARRICADES & STANDARD SIGNS

UTILITIES

- CITY OF LA CROSSE
  - SANITARY SEWER
  - STORM SEWER
  - WATER MAIN
- NORTHERN STATES POWER COMPANY
  - ELECTRIC DISTRIBUTION
  - GAS DISTRIBUTION
- LA CROSSE TELEPHONE COMPANY
  - AERIAL CABLE
- TELE-PROMPTER CABLE TV
  - AERIAL CABLE

DETAIL SUMMARY SHEET OF MISCELLANEOUS QUANTITIES

Sta.	Sta.	Location	Stations	Quantity S.Y.	Sta.	Sta.	Location	S.Y.
<b>GRUBBING</b>								
62+00	64+00	Lt.	2		59+47.8	69+86.9	C/L	5080
<b>REMOVING PAVEMENT</b>								
64+27	64+83	Rt. 33'	13		69+86.9	70+09.1	Lt. C/L	49
69+86.9	70.09.1	Lt. Rad.	17		69+86.9	70+09.1	Rt. C/L	49
69+26.9	70+09.1	C/L	99		65+60.5	Island St. Int.	Lt.	131
69+86.9	70+09.1	Rt. Rad.	17		69+80.5	" "	Rt.	131
68+97.5	69''P''+27.5	Driveway Rt.	25		69+70.5	St. Andrew St.	Lt.	141
					69+70.5	" "	Rt.	141
<b>REMOVING CURB &amp; GUTTER</b>								
65''E''+96	Lt.	N.E. Rad11	7.5		59+47.8	60+05	Rt.	144
65''E''+96	Rt.	S.E. Rad11	5.5		60+40	62+24	Rt.	1104
68''P''+89.5	68''P''+97.5	Rt.	8.0		62+59	63+85	Rt.	756
68''P''+25.5	69+29.5	S.W. Rad11	45.0		64+25	64+77	Rt.	312
70''P''+17.3	70''P''+43.5	Rt.	26.0		65+17	65+37	Rt.	120
69+28	69''P''+17.3	S.E. Rad11	40.0		65+86	66+04	Rt.	108
<b>REMOVING CONCRETE SIDEWALK</b>								
62+05	69''P''+20.0	Lt.	3.0		66+39	66+93	Rt.	324
69''P''+98.5	70''P''+23.0	Rt.	15.0		67+28	67+62	Rt.	204
		Rt.	16.0		67+89	68+11	Rt.	132
<b>REMOVING CATCH BASINS</b>								
69+45	26' Lt.	Each	1		68+46	69+41	Rt.	570
69+47	28' Rt.				59+47.8	60+41	Lt.	559
<b>UNCLASSIFIED EXCAVATION</b>								
<b>Gut</b>								
58+48	69+86.9	C/L	4298		60+76	63+43	Lt.	1602
<b>CRUSHED AGGREGATE BASE COURSE</b>								
58+48	59+47.8	Temp. Conn.	182		64+23	64+77	Lt.	324
59+47.8	69+86.9	Main Line	1275		65+17	65+36	Lt.	114
65+60.5	Island St. Int.	West	28		65+86	66+04	Lt.	108
65+60.5	" "	East	28		66+39	66+93	Rt.	324
69+70.5	St. Andrew St. Int.	West	36		67+28	67+62	Rt.	204
69+70.5	" "	East	36		67+89	68+11	Rt.	132
69+86.9	70+09.1	C/L	25		68+46	69+41	Rt.	570
		Driveways	51		59+47.8	60+41	Lt.	559
		Undistributed	169		60+76	63+43	Lt.	1602
<b>BITUMINOUS CONCRETE PAVEMENT PRE-MIXED</b>								
58+48	59+47.8	Temp. Conn.	109		64+23	64+77	Lt.	324
<b>CONCRETE PAVEMENT, 9-INCH</b>								
St. Andrew St. Tapers			5		65+17	65+36	Lt.	114
Undistributed (Side St. & Driveways)			20		65+86	66+04	Lt.	108
<b>CONCRETE DRIVEWAY</b>								
<b>CONCRETE CURB &amp; GUTTER, 30-INCH, TYPE "A"</b>								
68''P''+89.5	69''P''+24.5	Rt.	12.0		59+47.8	65+17	Rt.	569.2
68+11	68+46	Rt.	12.0		65+17	65''E''+94	Rad11 Rt.	30.0
<b>CONCRETE SIDEWALK, 4-INCH</b>								
68''P''+89.5	69''P''+23.5	Lt.	14.0		65''E''+93	66+04	Rad11 Rt.	30.0
68+83	69+23	Lt.	14.0		66+04	69+24	Rt.	320.0
67+95	68+35	Lt.	14.0		59+47.8	65+17	Lt.	569.2
66+04	66+44	Lt.	14.0		65+17	65''E''+11.5	Rad11 Lt.	39.2
67+45	67+85	Lt.	14.0		65''E''+11.5	66+04	Rad11 Lt.	39.2
68+83	69+23	Lt.	14.0		66+04	69+23	Lt.	319.0
68+11	68+46	Rt.	12.0		69+23	69''P''+23.5	Rad11 Lt.	37.2
		Rt.	12.0		68''P''+89.5	69''P''+23.5	Rt.	34.0
		Rt.	12.0		69+24	70''P''+17.5	Rad11 Rt.	38.0
		Rt.	26.0		70''P''+17.5	70''P''+43.5	Rt.	26.0

DETAIL SUMMARY SHEET OF MISCELLANEOUS QUANTITIES

CONCRETE SIDEWALK, 6-INCH

Sta.	Location	S.F.
59+47.8	Rt.	199
60+05	Rt.	210
62+24	Rt.	210
63+85	Rt.	240
64+77	Rt.	240
66+04	Rt.	210
66+93	Rt.	210
67+62	Rt.	162
68+11	Rt.	210
60+41	Lt.	210
63+43	Lt.	480
64+77	Lt.	240
66+04	Lt.	240
67+45	Lt.	240
67+95	Lt.	240
68+83	Lt.	240

MANHOLE CATCH BASINS

Sta.	Type	Location	Depth Ft.
61+40	3-J M.H.	17' Rt.	6'-0"
61+40	1-H C.B.	24' Lt.	5'-0"
61+40	1-H C.B.	24' Rt.	5'-0"
69+36	1-H C.B.	Rad. 27' Lt.	4'-0"
69+36	1-H C.B.	Rad. 27' Rt.	4'-0"

REINFORCED CONCRETE PIPE, CL. III-STORM SEWER 12"

Sta.	Location	Quantity L.F.
69+36	Cross Connector	46
69+36	Rt.	16

REINFORCED CONCRETE PIPE, CL. III, STORM SEWER, 24"

Sta.	Location	Quantity L.F.
61+40	C/L	36
61+40	Rt.	2

ADJUSTING MANHOLE COVERS

Sta.	Location	Quantity
61+50.5	10' Lt.	1
65+60.5	10' Lt.	1
65+71	35.2 Lt.	1
69+38	13.5 Lt.	1
69+41	09.7 Lt.	1
69+56.3	23.2 Rt.	1
69+56.5	18.3 Rt.	1
69+70	17' Lt.	1
69+71	9.7 Lt.	1
69+76	15.1 Lt.	1
69+87	11.1 Lt.	1
70+00.7	C/L	1
70+12.5	24.1 Rt.	1

METAL CONDUIT, 2-INCH

Sta.	Location	Quantity L.F.
69+23	C/L	51
70+08	C/L	51
69"R"+24	C/L	46
70"R"+17	C/L	46

TOPSOIL & SEEDING

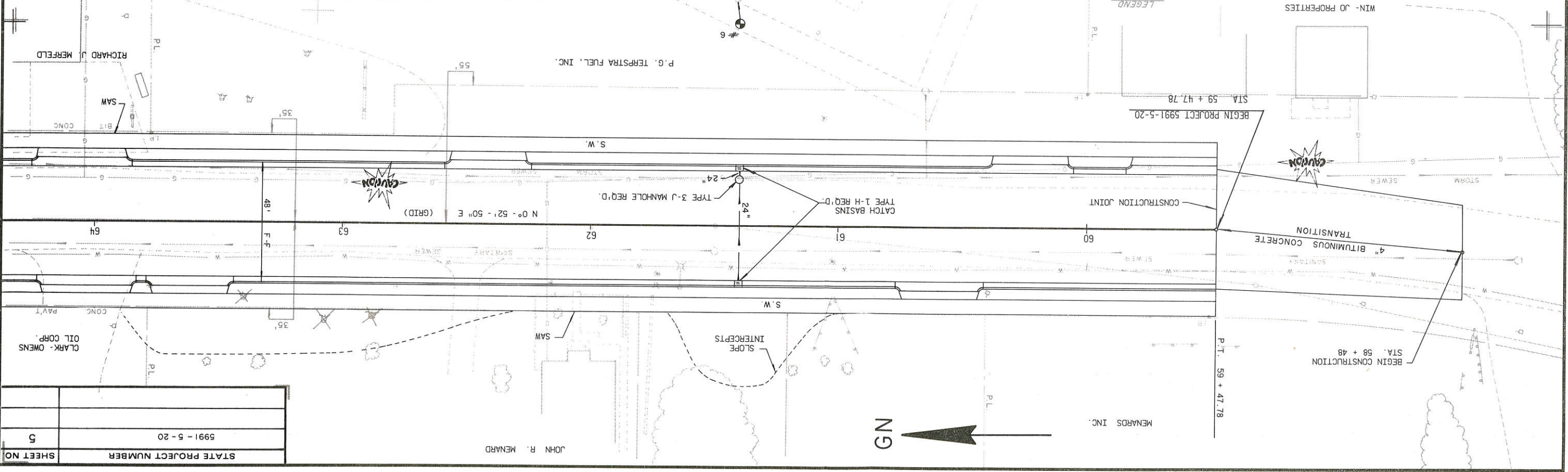
Sta.	Location	Topsoil S.Y.	Seed Lbs.
59+50	63+90 Lt.	444	8.5
66+45	67+40 Lt.	56	1.0
63+00	63+90 Rt.	50	1.0
66+40	66+90 Rt.	28	0.5
59+47.8	70+09.1 Terrace Lt. & Rt.	669	13.0
Undistributed		53	1.0

SHEET NO.	5
STATE PROJECT NUMBER	5991 - 5 - 20

JOHN R. MENARD

MENARDS INC.

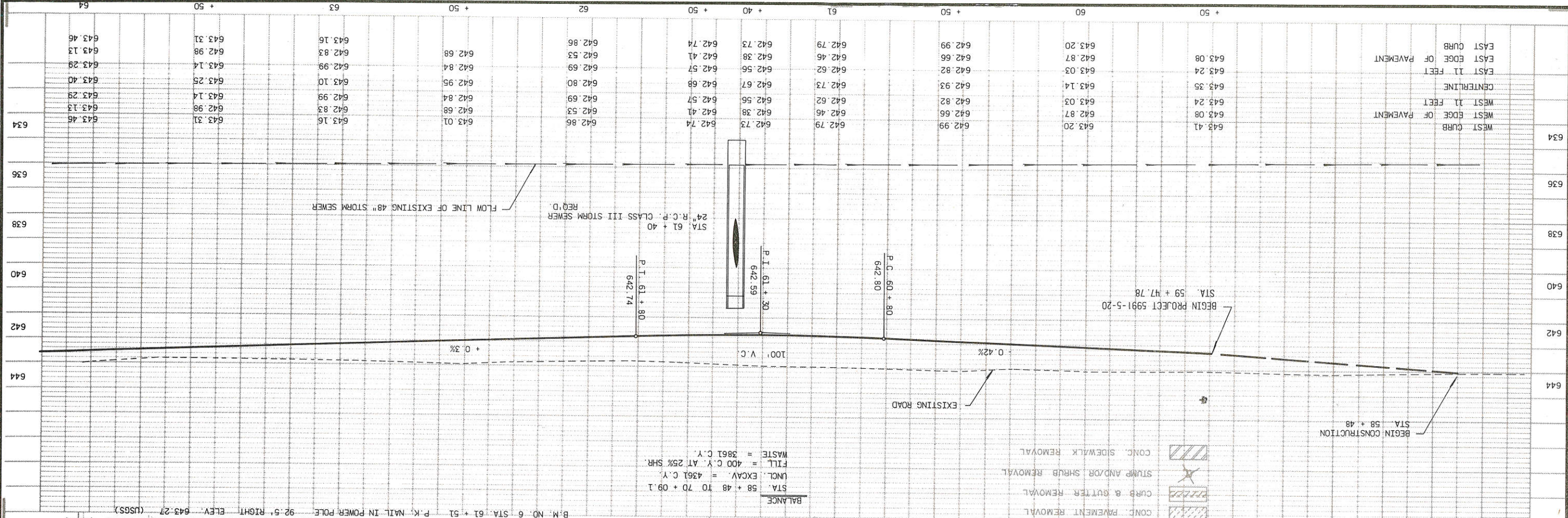
GN



B.M. NO. 5 STA. 55 + 12.5 KIEL MARK ON HEADWALL SOUTHWEST CORNER STORM SEWER ELEV. 641.69 (USGS)  
 B.M. NO. 6 STA. 61 + 51 P.K. NAIL IN POWER POLE - 92.5' RIGHT ELEV. 643.27 (USGS)

BALANCE  
 STA. 58 + 48 TO 70 + 09.1 UNCL. EXCAV. = 4361 C.Y.  
 FILL = 400 C.Y. AT 25% SHR.  
 WASTE = 3861 C.Y.

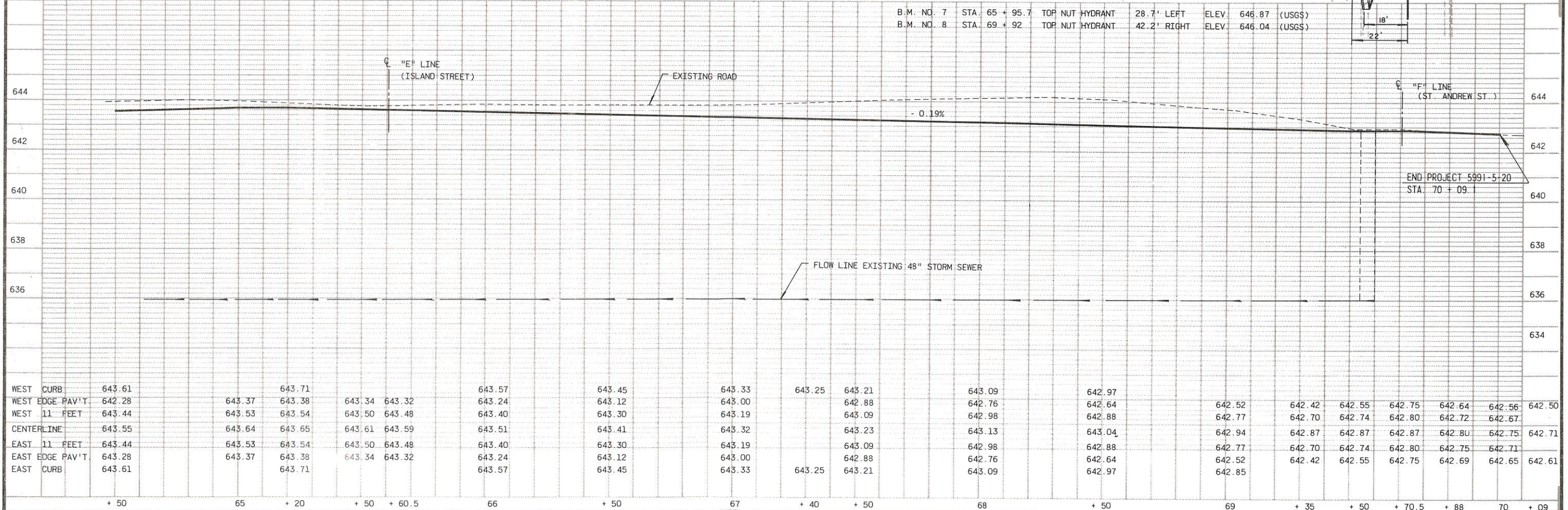
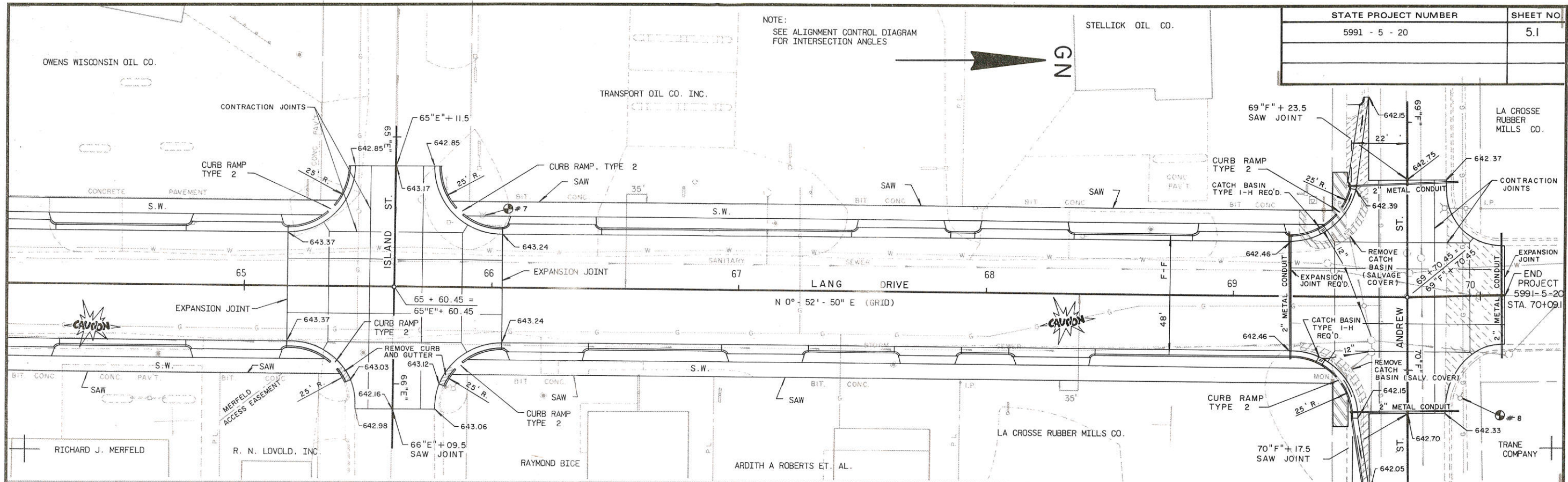
- LEGEND
- CONC. PAVEMENT REMOVAL
  - CURB & GUTTER REMOVAL
  - SHRUB AND/OR SHRUB REMOVAL
  - CONC. SIDEWALK REMOVAL



STATE PROJECT NUMBER	SHEET NO.
5991 - 5 - 20	5.1

NOTE:  
SEE ALIGNMENT CONTROL DIAGRAM  
FOR INTERSECTION ANGLES

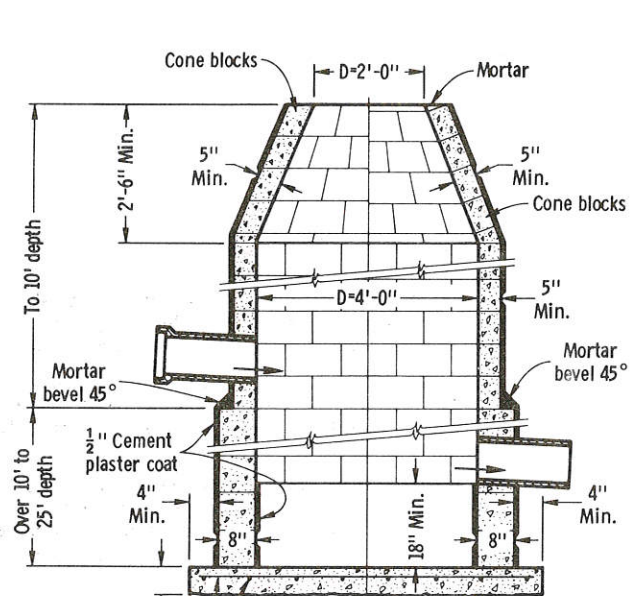
GN



WEST CURB	643.61		643.71		643.57		643.45		643.33		643.25	643.21		643.09		642.97		642.85		642.71		642.59		642.47		642.35		642.23		642.11		641.99		641.87		641.75		641.63		641.51		641.39		641.27		641.15		641.03		640.91		640.79		640.67		640.55		640.43		640.31		640.19		640.07		639.95		639.83		639.71		639.59		639.47		639.35		639.23		639.11		638.99		638.87		638.75		638.63		638.51		638.39		638.27		638.15		638.03		637.91		637.79		637.67		637.55		637.43		637.31		637.19		637.07		636.95		636.83		636.71		636.59		636.47		636.35		636.23		636.11		635.99		635.87		635.75		635.63		635.51		635.39		635.27		635.15		635.03		634.91		634.79		634.67		634.55		634.43		634.31		634.19		634.07		633.95		633.83		633.71		633.59		633.47		633.35		633.23		633.11		632.99		632.87		632.75		632.63		632.51		632.39		632.27		632.15		632.03		631.91		631.79		631.67		631.55		631.43		631.31		631.19		631.07		630.95		630.83		630.71		630.59		630.47		630.35		630.23		630.11		630.00																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																			
WEST EDGE PAV'T	642.28		643.38		643.34	643.32		643.24		643.00		643.25	642.88		642.76		642.64		642.52		642.40		642.28		642.16		642.04		641.92		641.80		641.68		641.56		641.44		641.32		641.20		641.08		640.96		640.84		640.72		640.60		640.48		640.36		640.24		640.12		640.00		639.88		639.76		639.64		639.52		639.40		639.28		639.16		639.04		638.92		638.80		638.68		638.56		638.44		638.32		638.20		638.08		637.96		637.84		637.72		637.60		637.48		637.36		637.24		637.12		637.00		636.88		636.76		636.64		636.52		636.40		636.28		636.16		636.04		635.92		635.80		635.68		635.56		635.44		635.32		635.20		635.08		634.96		634.84		634.72		634.60		634.48		634.36		634.24		634.12		634.00																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																										
WEST 11 FEET	643.44		643.54		643.50	643.48		643.40		643.19		643.09	642.88		642.98		642.88		642.77		642.70		642.74		642.80		642.87		642.94		643.01		643.08		643.15		643.22		643.29		643.36		643.43		643.50		643.57		643.64		643.71		643.78		643.85		643.92		643.99		644.06		644.13		644.20		644.27		644.34		644.41		644.48		644.55		644.62		644.69		644.76		644.83		644.90		644.97		645.04		645.11		645.18		645.25		645.32		645.39		645.46		645.53		645.60		645.67		645.74		645.81		645.88		645.95		646.02		646.09		646.16		646.23		646.30		646.37		646.44		646.51		646.58		646.65		646.72		646.79		646.86		646.93		647.00		647.07		647.14		647.21		647.28		647.35		647.42		647.49		647.56		647.63		647.70		647.77		647.84		647.91		647.98		648.05		648.12		648.19		648.26		648.33		648.40		648.47		648.54		648.61		648.68		648.75		648.82		648.89		648.96		649.03		649.10		649.17		649.24		649.31		649.38		649.45		649.52		649.59		649.66		649.73		649.80		649.87		649.94		650.01		650.08		650.15		650.22		650.29		650.36		650.43		650.50		650.57		650.64		650.71		650.78		650.85		650.92		650.99		651.06		651.13		651.20		651.27		651.34		651.41		651.48		651.55		651.62		651.69		651.76		651.83		651.90		651.97		652.04		652.11		652.18		652.25		652.32		652.39		652.46		652.53		652.60		652.67		652.74		652.81		652.88		652.95		653.02		653.09		653.16		653.23		653.30		653.37		653.44		653.51		653.58		653.65		653.72		653.79		653.86		653.93		654.00		654.07		654.14		654.21		654.28		654.35		654.42		654.49		654.56		654.63		654.70		654.77		654.84		654.91		654.98		655.05		655.12		655.19		655.26		655.33		655.40		655.47		655.54		655.61		655.68		655.75		655.82		655.89		655.96		656.03		656.10		656.17		656.24		656.31		656.38		656.45		656.52		656.59		656.66		656.73		656.80		656.87		656.94		657.01		657.08		657.15		657.22		657.29		657.36		657.43		657.50		657.57		657.64		657.71		657.78		657.85		657.92		657.99		658.06		658.13		658.20		658.27		658.34		658.41		658.48		658.55		658.62		658.69		658.76		658.83		658.90		658.97		659.04		659.11		659.18		659.25		659.32		659.39		659.46		659.53		659.60		659.67		659.74		659.81		659.88		659.95		660.02		660.09		660.16		660.23		660.30		660.37		660.44		660.51		660.58		660.65		660.72		660.79		660.86		660.93		661.00		661.07		661.14		661.21		661.28		661.35		661.42		661.49		661.56		661.63		661.70		661.77		661.84		661.91		661.98		662.05		662.12		662.19		662.26		662.33		662.40		662.47		662.54		662.61		662.68		662.75		662.82		662.89		662.96		663.03		663.10		663.17		663.24		663.31		663.38		663.45		663.52		663.59		663.66		663.73		663.80		663.87		663.94		664.01		664.08		664.15		664.22		664.29		664.36		664.43		664.50		664.57		664.64		664.71		664.78		664.85		664.92		664.99		665.06		665.13		665.20		665.27		665.34		665.41		665.48		665.55		665.62		665.69		665.76		665.83		665.90		665.97		666.04		666.11		666.18		666.25		666.32		666.39		666.46		666.53		666.60		666.67		666.74		666.81		666.88		666.95		667.02		667.09		667.16		667.23		667.30		667.37		667.44		667.51		667.58		667.65		667.72		667.79		667.86		667.93		668.00		668.07		668.14		668.21		668.28		668.35		668.42		668.49		668.56		668.63		668.70		668.77		668.84		668.91		668.98		669.05		669.12		669.19		669.26		669.33		669.40		669.47		669.54		669.61		669.68		669.75		669.82		669.89		669.96		670.03		670.10		670.17		670.24		670.31		670.38		670.45		670.52		670.59		670.66		670.73		670.80		670.87		670.94		671.01		671.08		671.15		671.22		671.29		671.36		671.43		671.50		671.57		671.64		671.71		671.78		671.85		671.92		671.99		672.06		672.13		672.20		672.27		672.34		672.41		672.48		672.55		672.62		672.69		672.76		672.83		672.90		672.97		673.04		673.11		673.18		673.25		673.32		673.39		673.46		673.53		673.60		673.67		673.74		673.81		673.88		673.95		674.02		674.09		674.16		674.23		674.30		674.37		674.44		674.51		674.58		674.65		674.72		674.79		674.86		674.93		675.00		675.07		675.14		675.21		675.28		675.35		675.42		675.49		675.56		675.63		675.70		675.77		675.84		675.91		675.98		676.05		676.12		676.19		676.26		676.33		676.40		676.47		676.54		676.61		676.68		676.75		676.82		676.89		676.96		67

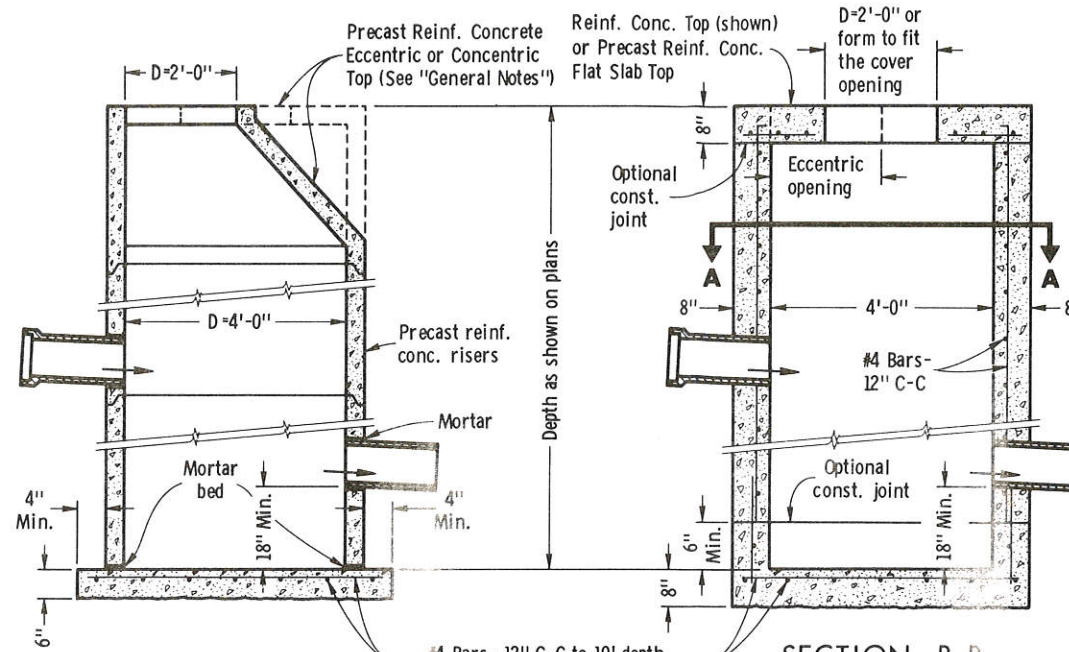




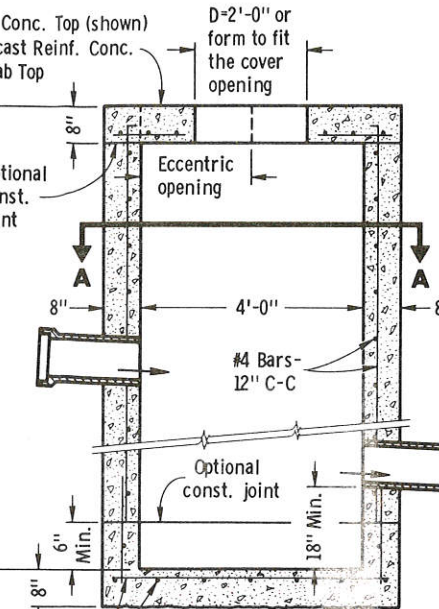


#4 Bars-12" C-C to 10' depth  
6" C-C over 10' to 25' depth  
See "General Notes" for appli-  
cation of concentric top.

CONCRETE BLOCK

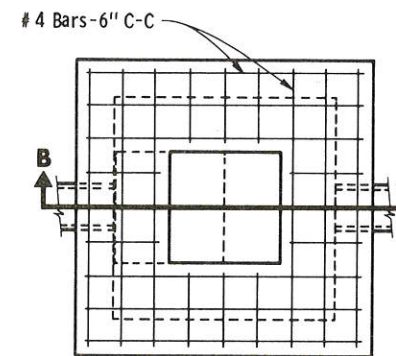


PRECAST REINFORCED CONCRETE

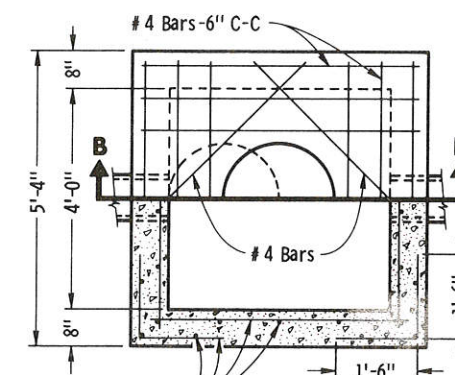


SECTION B-B  
REINFORCED CONCRETE

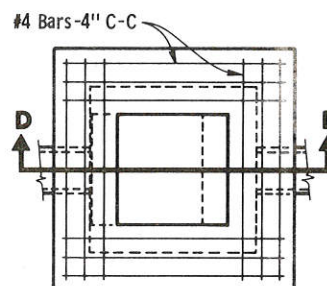
CATCH BASINS TYPE 1



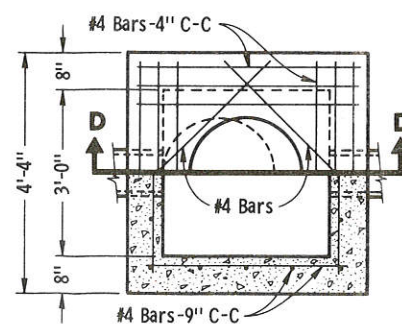
PLAN VIEW SHOWING  
ALTERNATE OPENING



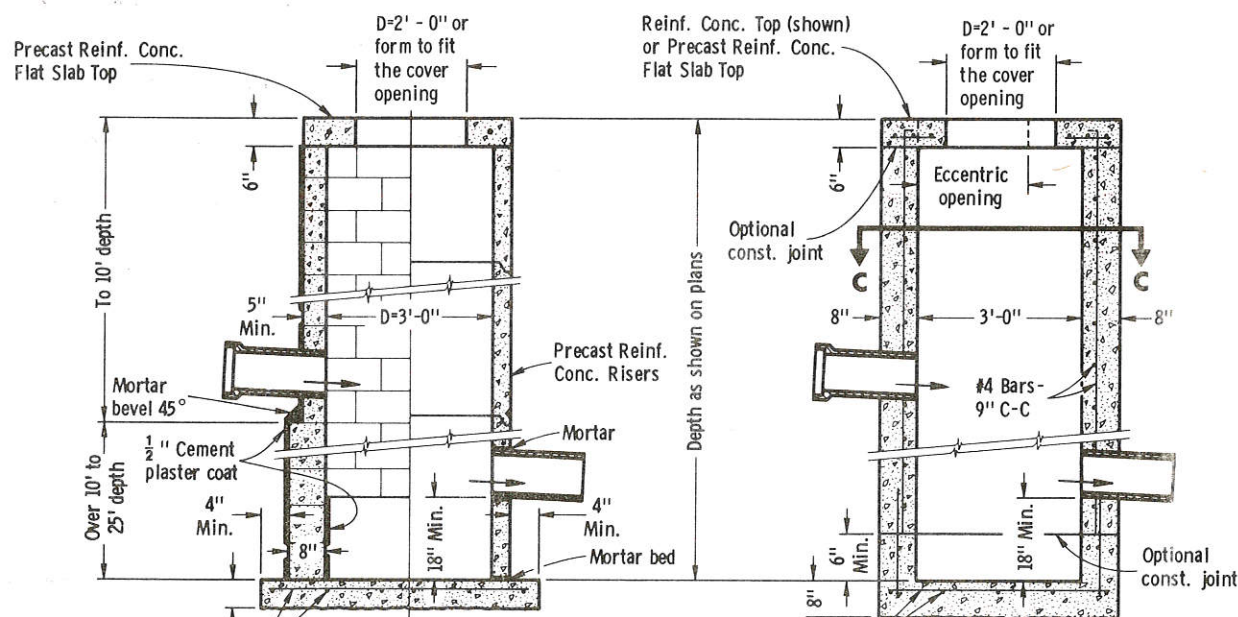
HALF SECTION A-A



PLAN VIEW SHOWING  
ALTERNATE OPENING



HALF SECTION C-C



#4 Bars-12" C-C to 10' depth  
9" C-C over 10' to 25' depth

CONCRETE  
BLOCK

PRECAST  
REINFORCED  
CONCRETE

#4 Bars-12" C-C to 10' depth  
9" C-C over 10' to 25' depth

SECTION D-D  
REINFORCED CONCRETE

CATCH BASINS TYPE 2

GENERAL NOTES

Details of construction, materials and workmanship not shown on this drawing shall conform to the pertinent requirements of the 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 1 - H", etc. The first digit designates the masonry portion of the structure, and the following letter designates the type of cover to be used to comprise the complete unit.

Precast Reinforced Bases shall be placed on a bed of material at least 6 inches in depth, which meets the requirements of Granular Backfill. This bedding shall be compacted and provide uniform support for the entire area of the base.

Precast Reinforced Concrete Cone Tops (Eccentric or Concentric) or Precast Reinforced Concrete Flat Slab Tops may be used on concrete block structures. The Cone Tops shall be installed on a bed of mortar.

Eccentric Cone Tops may be used on all structures, and Concentric Cone Tops shall be used only on structures 5 feet or less in depth, unless otherwise directed by the Engineer.

Steps meeting the following requirements shall be installed in all structures over 5 feet in depth: 16 inch C-C maximum spacing; project a minimum clear distance of 4 inches from the wall at the point of embedment; minimum length of 10 inches; minimum wall embedment of 3 inches; and be capable of supporting a concentrated load of 300 lbs. Ferrous metal steps not painted or treated to resist corrosion shall have a minimum cross sectional dimension of 1 inch.

Solid Aluminum steps shall have a minimum cross sectional dimension of 0.75 inch. Aluminum surfaces to be embedded in concrete shall be given one coat of suitable quality paint, such as zinc chromate primer conforming to federal specification TT-P-645 or equivalent. Steps of approved Polypropylene plastic coated reinforcement bar will be acceptable.

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

Precast Reinforced Concrete Risers may be placed with tongue up or down.

CATCH BASINS TYPE 1 & 2

State of Wisconsin  
Department of Transportation  
Division of Highways

RECOMMENDED FOR APPROVAL:  
DATE 12-3-75  
APPROVED  
DATE 12-9-75

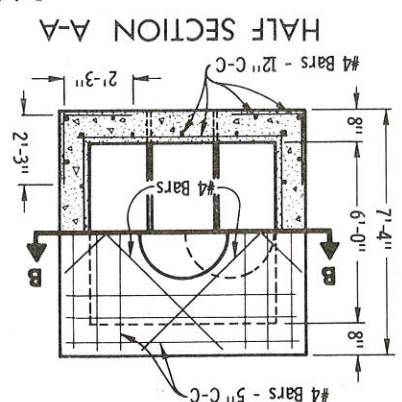
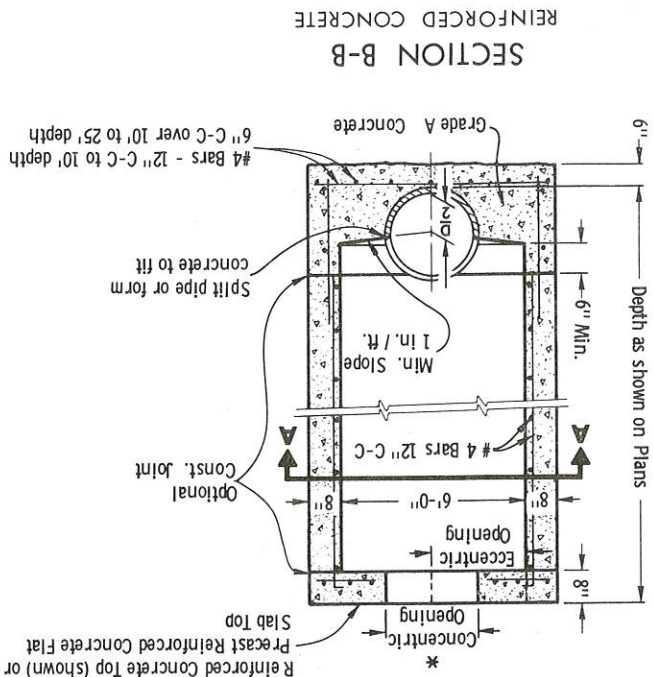
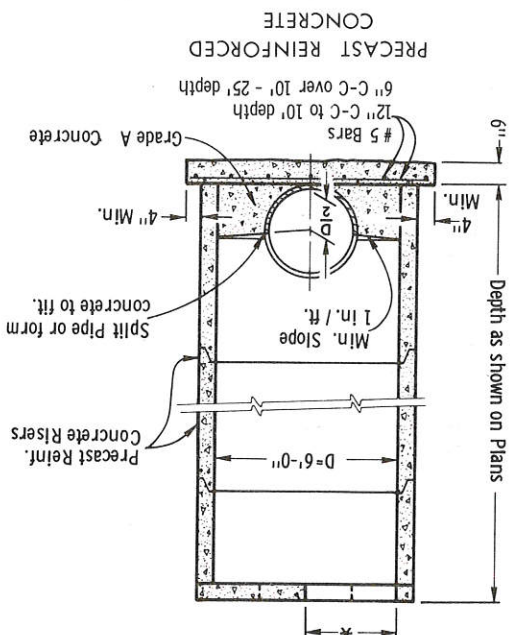
J. C. Hennrich  
CHIEF OF FACILITIES DEVELOPMENT  
H. S. Siedler  
STATE HIGHWAY ENGINEER

RECOMMENDED FOR APPROVAL: *[Signature]* DATE: 12-3-75  
 CHIEF OF FACILITIES DEVELOPMENT  
 APPROVED: *[Signature]* DATE: 12-9-75  
 STATE HIGHWAY ENGINEER

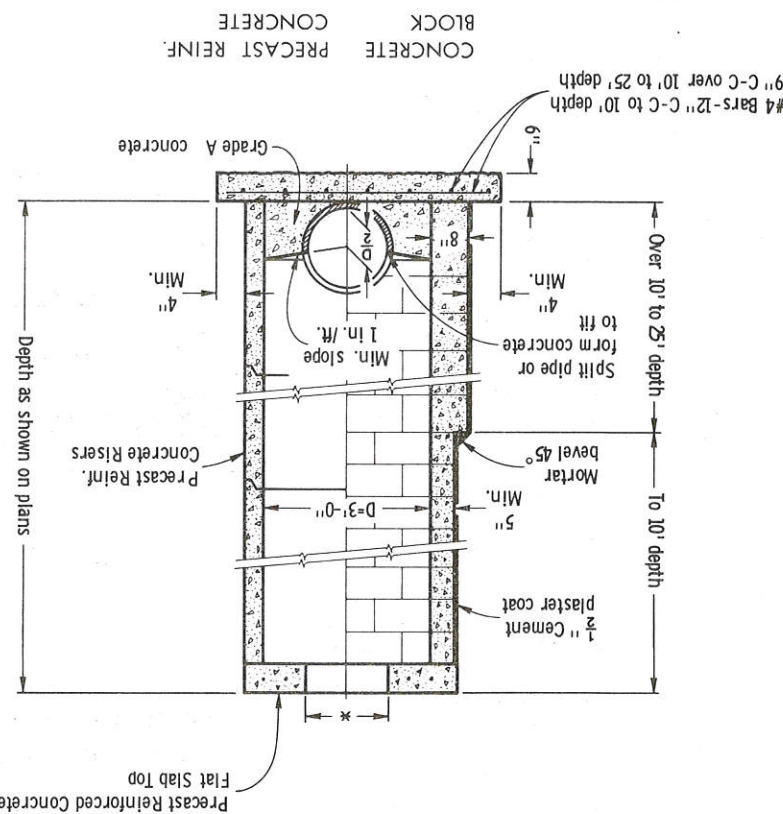
State of Wisconsin  
 Department of Transportation  
 Division of Highways

MANHOLES TYPE 2 & 3

MANHOLES TYPE 3

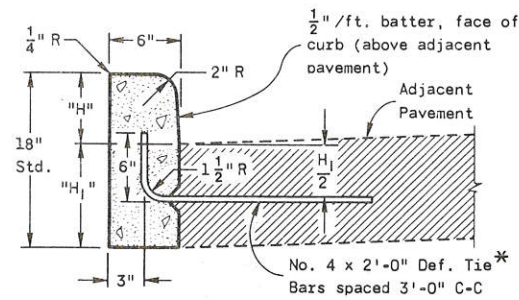


MANHOLES TYPE 2



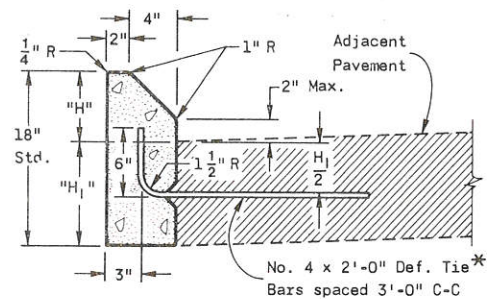
GENERAL NOTES

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 I - C", "Catch Basins I - B", "Inlets I - H", etc. The first digit designates the masonry portion of the structure, and the following letter designates the type of cover to be used to comprise the complete unit. Precast Reinforced Bases shall be placed on a bed of material at least 6 inches in depth, which meets the requirements for Granular Backfill. This bedding shall be compacted and provide uniform support for the entire area of the base. Steps meeting the following requirements shall be installed in all structures over 5 feet in depth: 16 inch C-C maximum spacing; project a minimum clear distance of 4 inches from the wall at the point of embedment; minimum length of 10 inches; minimum wall embedment of 3 inches; and be capable of supporting a concentrated load of 300 lbs. Ferrous metal steps not painted or treated to resist corrosion shall have a minimum cross sectional dimension of 1 inch. Solid Aluminum steps shall have a minimum cross sectional dimension of 0.75 inch. Aluminum surfaces to be embedded in concrete shall be given one coat of suitable quality paint, such as zinc chromate primer conforming to federal specification TT-P-645 or equivalent. Steps of approved Polypropylene plastic coated reinforcement bar will be acceptable. All bar steel reinforcement shall be embedded 2 inches clear unless otherwise shown or noted. Precast Reinforced Concrete Risers may be placed with tongue up or down. \* Use 2'-0" diameter opening with type "C", "L" and "J" covers, or 3'-0" diameter with type "K" and "M" covers.



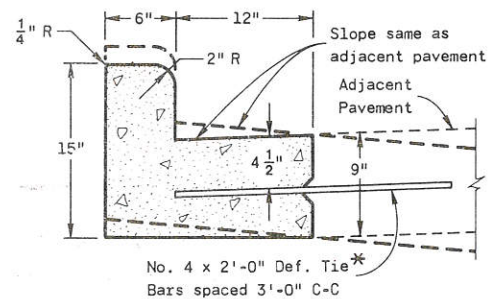
"H" = 9" Max. and 3 1/2" Min. and shall be 6" unless otherwise shown on the plans.  
 "H<sub>1</sub>" = Same as adjacent pavement thickness for rigid pavement and 12" for non-rigid pavement (Tie Bars omitted)

**TYPE "A"** (INCLUDING TIE BARS)  
**TYPE "D"** (EXCLUDING TIE BARS)  
**CONCRETE CURB**

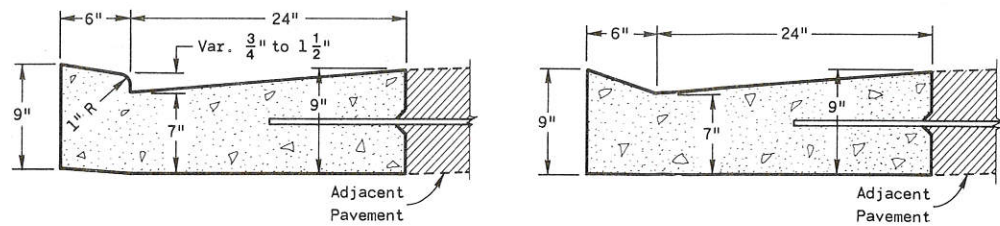


"H" = 6" Max. and 4" Min. and shall be 6" unless otherwise shown on the plans.  
 "H<sub>1</sub>" = Same as adjacent pavement thickness for rigid pavement and 12" for non-rigid pavement (Tie Bars omitted)

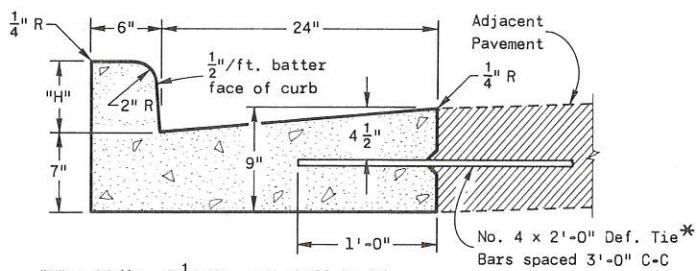
**TYPE "G"** (INCLUDING TIE BARS)  
**TYPE "J"** (EXCLUDING TIE BARS)  
**CONCRETE CURB**  
 (MOUNTABLE)



**TYPE "A"** (INCLUDING TIE BARS)  
**TYPE "D"** (EXCLUDING TIE BARS)  
**CONCRETE CURB & GUTTER 18"**  
 Reverse slope Curb & Gutter shown thus ---

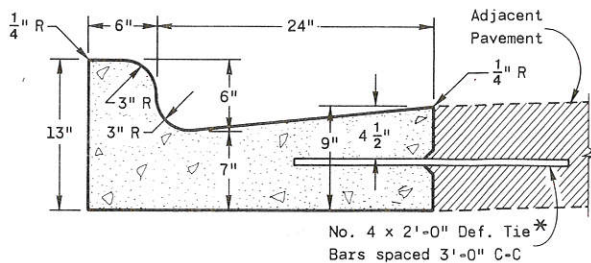


**ALTERNATE ENTRANCES**  
**CONCRETE CURB & GUTTER 30"**

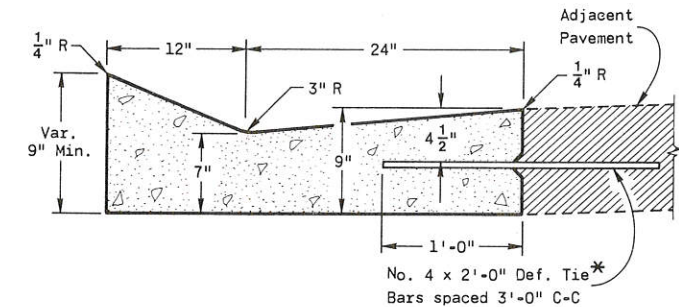


"H" = 9" Max. 3 1/2" Min. and shall be 6" unless otherwise shown on the plans.

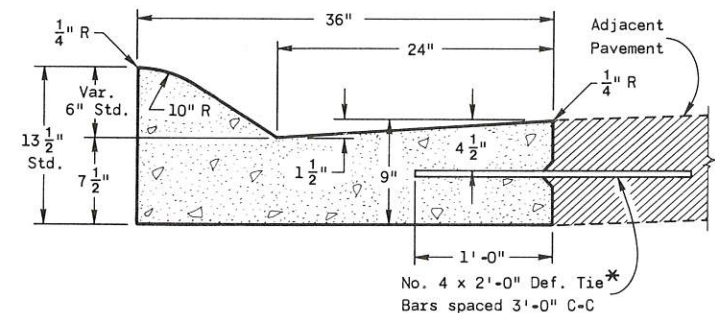
**TYPE "A"** (INCLUDING TIE BARS)  
**TYPE "D"** (EXCLUDING TIE BARS)  
**CONCRETE CURB & GUTTER 30"**



**TYPE "K"** (INCLUDING TIE BARS)  
**TYPE "L"** (EXCLUDING TIE BARS)  
**CONCRETE CURB & GUTTER 30"**



**TYPE "A"** (INCLUDING TIE BARS)  
**TYPE "D"** (EXCLUDING TIE BARS)  
**CONCRETE GUTTER 36"**



**TYPE "A"** (INCLUDING TIE BARS)  
**TYPE "D"** (EXCLUDING TIE BARS)  
**CONCRETE CURB & GUTTER 36"**  
 (MOUNTABLE)

**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 Curb, Gutter and Combination Curb and Gutter shall be submitted to the Engineer for approval providing that such alternate designs make provision for equivalent capacity and strength.

Joints shall not be sealed in Concrete Curb, or Concrete Curb & Gutter.

\* Where Curb and Gutter are poured adjacent to existing pavement, the Hook Bolt may be used as for "Longitudinal Joints - Concrete Pavement".

**CONCRETE CURB, GUTTER,  
 COMBINATION CURB & GUTTER**

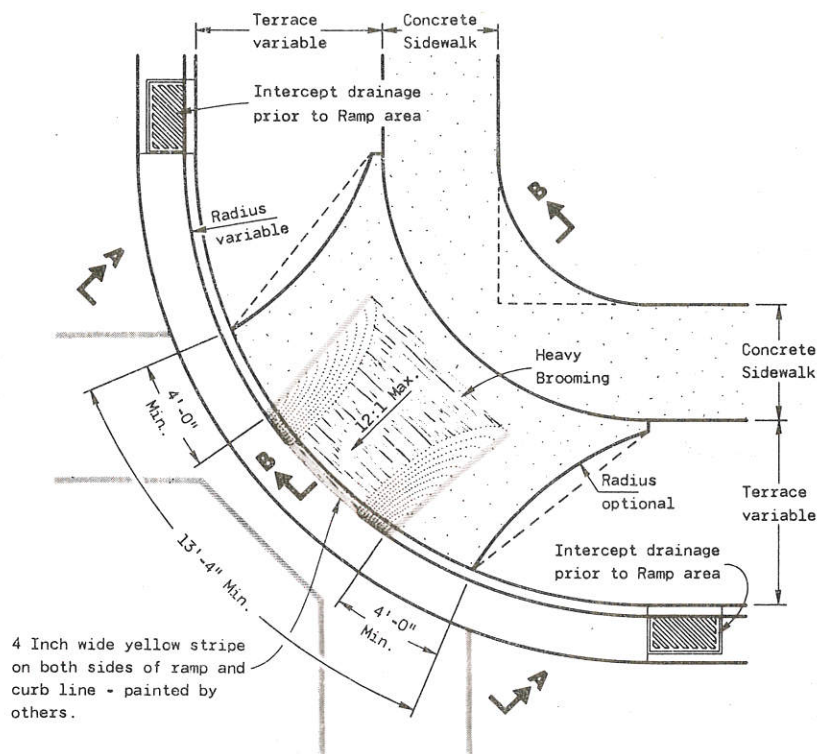
State of Wisconsin  
 Department of Transportation  
 Division of Highways

RECOMMENDED FOR APPROVAL:  
 DATE 9-12-73

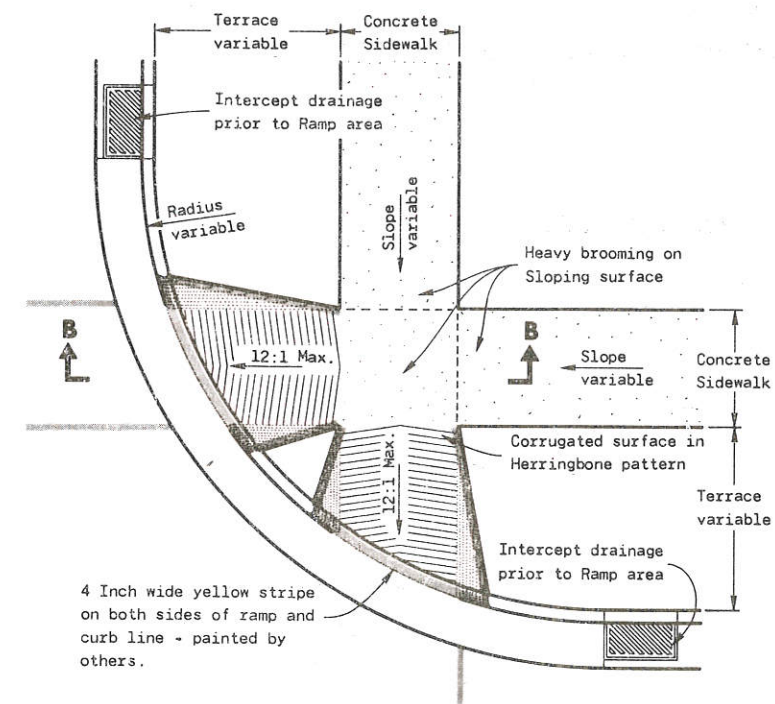
*J. C. Henrich*  
 CHIEF OF FACILITIES DEVELOPMENT

APPROVED:  
 DATE 9-19-73

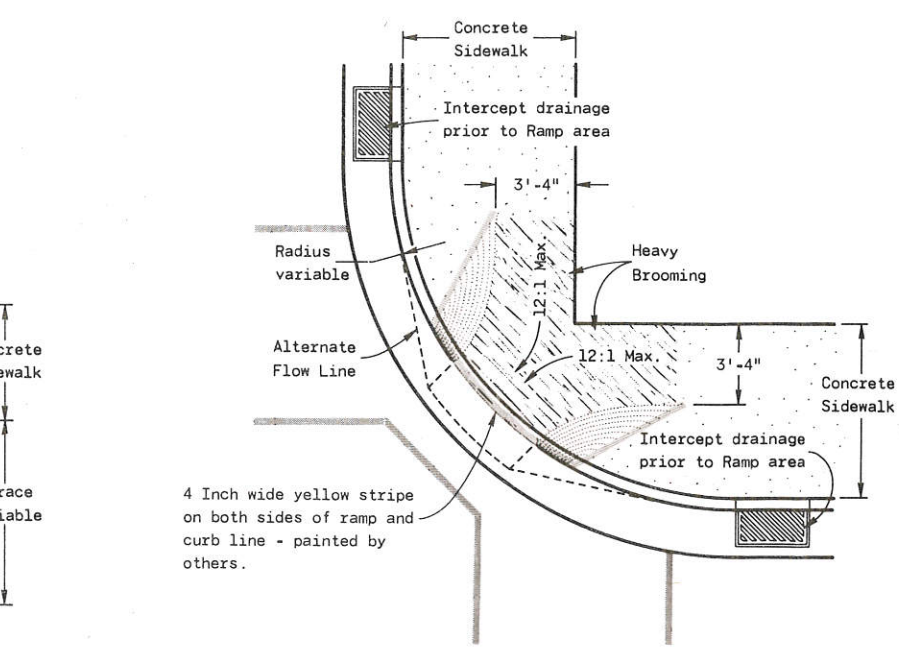
*W. J. Siedler*  
 STATE HIGHWAY ENGINEER



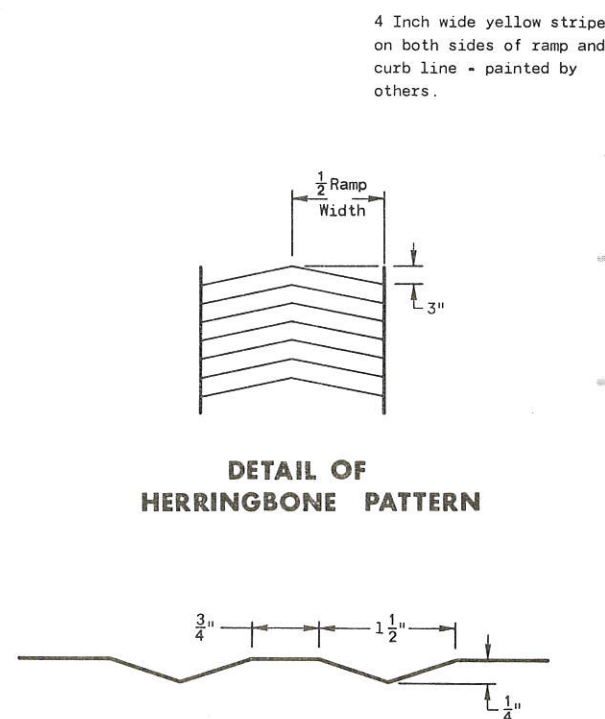
PLAN VIEW  
TYPE 1 RAMP  
(CENTER OF CORNER RADIUS)



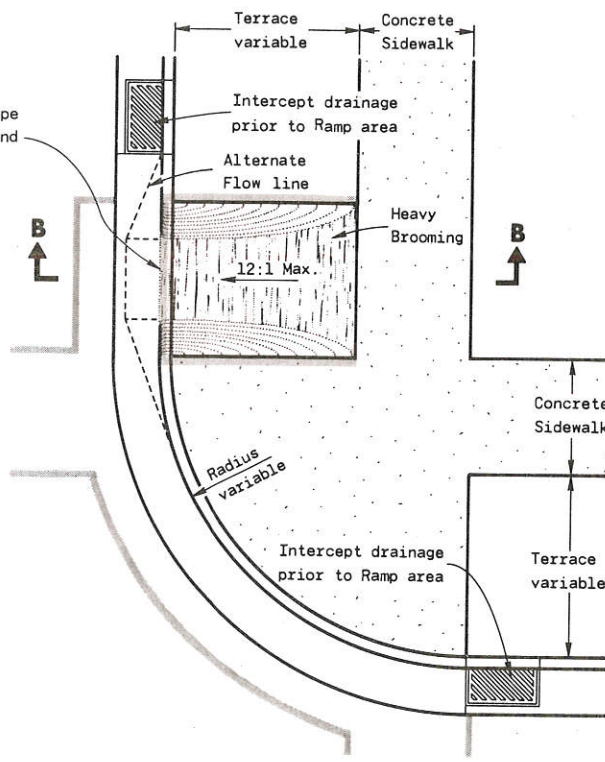
PLAN VIEW  
TYPE 2 RAMP  
(ON LINE WITH SIDEWALK)



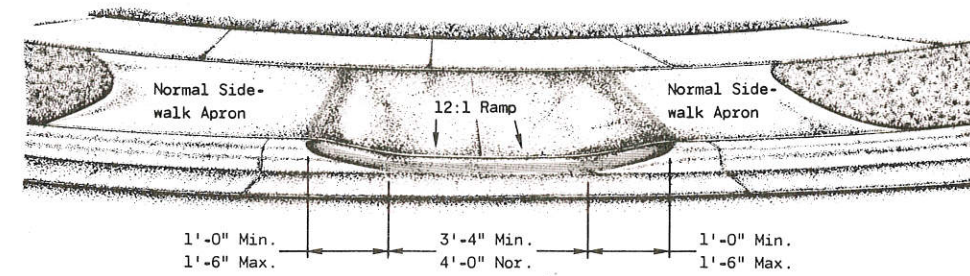
PLAN VIEW  
TYPE 1-A RAMP  
(NO TERRACE)



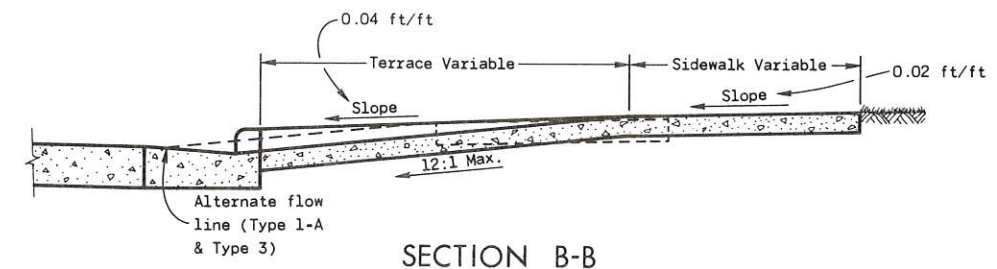
DETAIL OF  
SURFACE CORRUGATION



PLAN VIEW  
TYPE 3 RAMP  
(OUTSIDE OF CROSSWALK AREA)



VIEW A-A



SECTION B-B

**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.

Ramps shall be built at 12:1 or flatter. When necessary, the Sidewalk elevation may be lowered to meet the high point on the Ramp.

Type 1 or Type 1-A Ramps shall have a normal Sidewalk apron and Curb on both sides of Ramp. Entire Curb radius shall not be made into Ramp.

Curb Ramps shall be measured and paid for as Concrete Sidewalk and Concrete Curb and Gutter.

Section 66.616, Wisconsin Statutes requires Curb Ramping for handicapped persons. This law also states that "the Ramp shall be either bordered on both sides and the Curb line with a four inch wide yellow stripe, or the surface treatment on the Ramp shall have integral coloration".

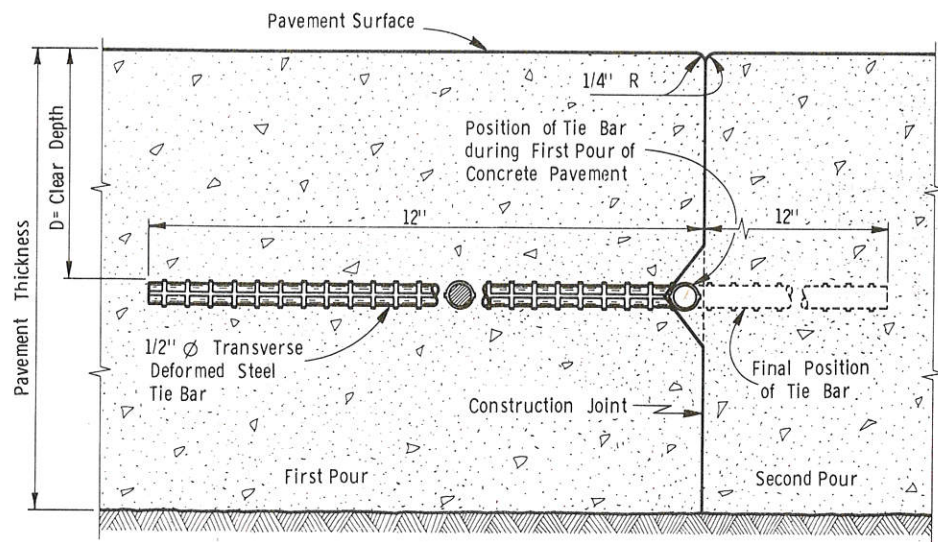
The paint stripe alternate is shown to alert users of this drawing of the requirement for delineation of the Ramp. The paint stripes will be applied by state or municipal signing crews unless otherwise indicated by Special Provision.

**CURB RAMPS FOR  
HANDICAPPED PERSONS**

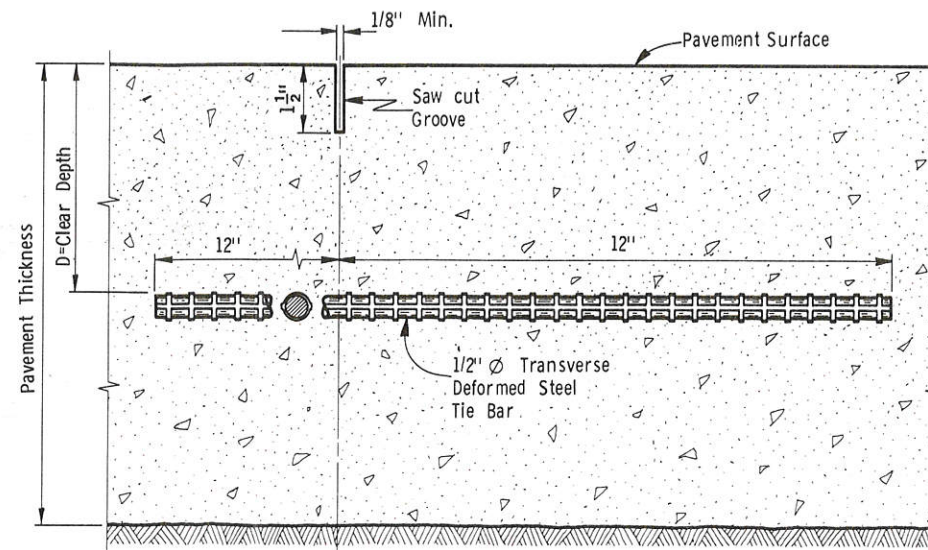
State of Wisconsin  
Department of Transportation  
Division of Highways

RECOMMENDED FOR APPROVAL:  
12-16-75 DATE  
I. C. Henrich  
CHIEF OF FACILITIES DEVELOPMENT  
APPROVED  
12-18-75 DATE  
W. J. Siedler  
STATE HIGHWAY ENGINEER



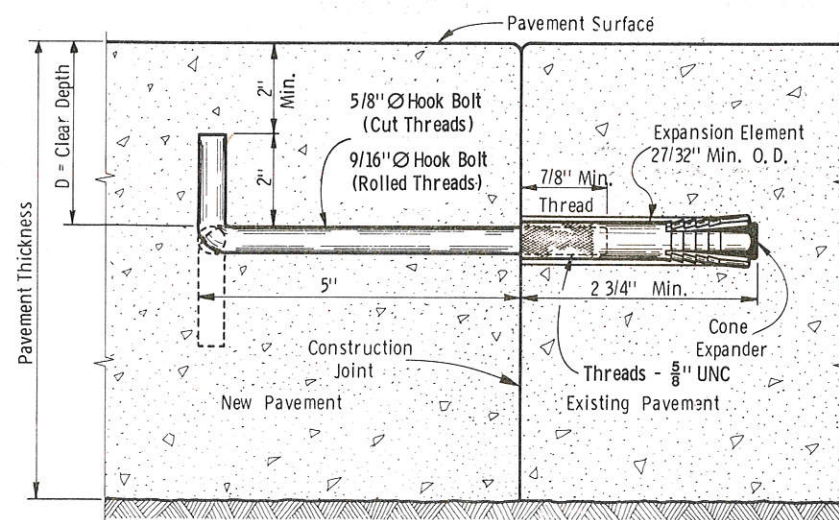


SECTION  
CONSTRUCTION JOINT  
(TIE BAR)

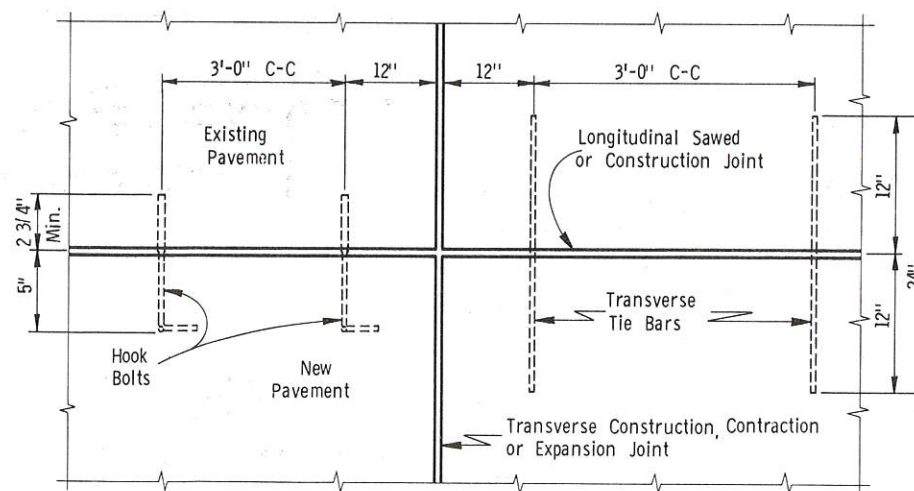


SECTION  
SAWED JOINT  
(TIE BAR)

Pavement Thickness	"D"	
	Tie Bar	Hook Bolt
8"	2 - 4 3/4"	4 - 4 3/4"
9"	2 - 5 1/2"	4 - 5 1/2"
10"	2 - 5 3/4"	4 - 5 3/4"



SECTION  
CONSTRUCTION JOINT  
(HOOK BOLT)



PLAN VIEW  
Showing Location Details for  
Hook Bolts and Tie Bars

**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.

Hook Bolts shall be used only when specified in the contract plans.

The Hook Bolts shall conform to ASTM specification A 307, except that the requirements of paragraph 1 (c) shall not apply.

The Expansion Anchor shall be an internally threaded anchor which consists of an externally slit Expansion Element and a single Cone Expander. The Expansion Element shall contain a minimum of three grips. The Expansion Element shall be threaded in such a manner as to prevent the machine bolt from coming in contact with the Cone Expander at any time.

The Expansion Anchor shall be set in existing pavement according to manufacturer's instructions. The holes shall be of the recommended diameter and depth and shall be drilled by methods recommended by the manufacturer of the particular anchor. The drilled holes shall be left rough, not reamed, and free from any drill dust.

Alternate designs of construction joint installations may be used upon written approval of the Engineer.

Longitudinal Joints shall not be sealed.

Tie Bars shall be placed at the required location by devices or methods approved by the Engineer.

LONGITUDINAL JOINTS  
CONCRETE PAVEMENT

State of Wisconsin  
Department of Transportation  
Division of Highways

RECOMMENDED FOR APPROVAL:  
DATE 5/23/72 *L. C. Hennel*  
CHIEF DESIGN ENGINEER  
APPROVED  
DATE 5/24/72 *S. C. Hicks*  
STATE HIGHWAY ENGINEER

**GENERAL NOTES**

Details of construction not shown on this drawing shall conform to the pertinent requirements of the Standard Specifications and the applicable Special Provisions. Steel installing pins of sufficient number, length and rigidity shall be used to prevent movement of the joint assembly during construction operations. Alternate designs for load transfer dowels at expansion joints and appurtenances other than shown here may be used upon written approval of the Engineer. CONSTRUCTION JOINTS  
 Contraction joints shall be installed at 20' (± 1') spacing from adjacent contraction or expansion joints, except that lesser spacings shall be used:  
 1. At locations or spacing indicated on the plans.  
 2. As extensions of transverse joints or cracks in abutting pavement lanes.  
 3. At locations designated by the Engineer where there are manholes or other fixtures in the pavement.

CONSTRUCTION JOINTS shall be installed a minimum of 10' from the nearest joint. Deformed bars shall be spaced at 12" C-C and 6" from the edge of pavement. Deformed bars may be inserted after the concrete has been poured.

EXPANSION JOINTS  
 Expansion joints are required only at structure approaches and/or where shown on the plans. Locations may be shifted to avoid stationary fixtures in the pavement. Expansion joint filler shall be secured with sufficient number of steel pins to prevent horizontal movement during the placing of concrete.  
**DOWEL BARS**  
 Dowel bars shall be spaced at 12" C-C and 6" from the edge of pavement. Dowel bars shall have at least one end sawed and be free of all burrs and protruding edges.  
 Dowel bars having one end sawed and one end sheared shall be oriented so that the sheared end is welded to the support assembly and the sawed end remains free. Metal dowel socket (C.A.P.), 1 1/8" or 1 1/4" Dia., 24 gauge, closed on one end shall be placed alternately on the free end of each dowel bar for proper pavement expansion. Dowel bars shall be installed in accordance with the plans and the section of the Standard Specifications entitled "TRANSVERSE JOINTS IN CONCRETE PAVEMENT" except as hereinafter provided.

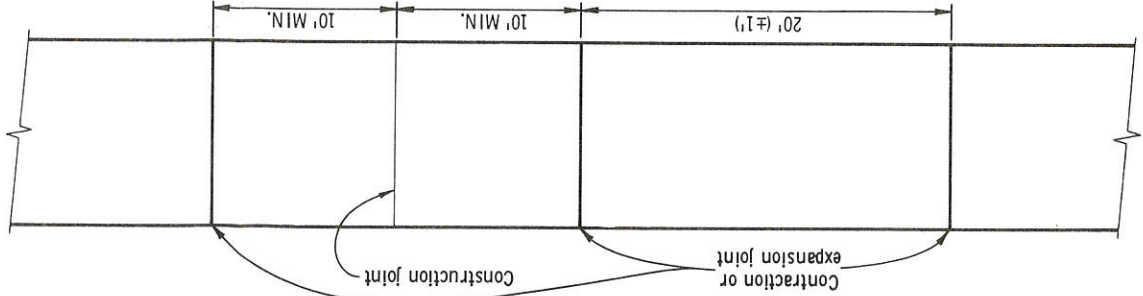
Dowel bars shall be coated by one of the following processes:  
 1. Type I - Adhesive thermoplastic resin system coating in accordance with Federal Specification L - C530 B except the coating thickness shall be 17 mils nominal (± 3 mils) and the adhesive thickness shall be 4 mils nominal (+ 4 mils, - 1 mil), or  
 2. Type II - Thermosetting epoxy system in accordance with Federal Specification L - C530 B except the total minimum thickness shall be 10 mils. The bars shall be coated with SAE # 140 oil or similar lubricant after installing in the support assembly.  
 The ends of the dowel bars need not be coated.  
 Coating of the welds where the dowel bars are attached to the support assembly is not required.  
 Selection of Type I or Type II coating is optional; however, one type shall be used throughout the project.

Dowel Bar Dimensions:  
 For 7" P. C. Pavement = 1" x 18"  
 For 8" P. C. Pavement = 1" x 18"  
 For 9" P. C. Pavement = 1 1/4" x 18"  
 SEALING JOINTS  
 Joints shall be sealed as shown.

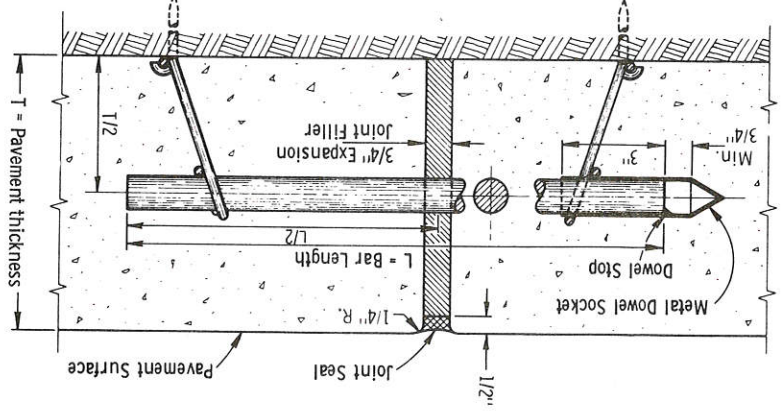
**TRANSVERSE JOINTS IN NON-REINFORCED CONCRETE PAVEMENT**

State of Wisconsin  
 Department of Transportation  
 Division of Highways

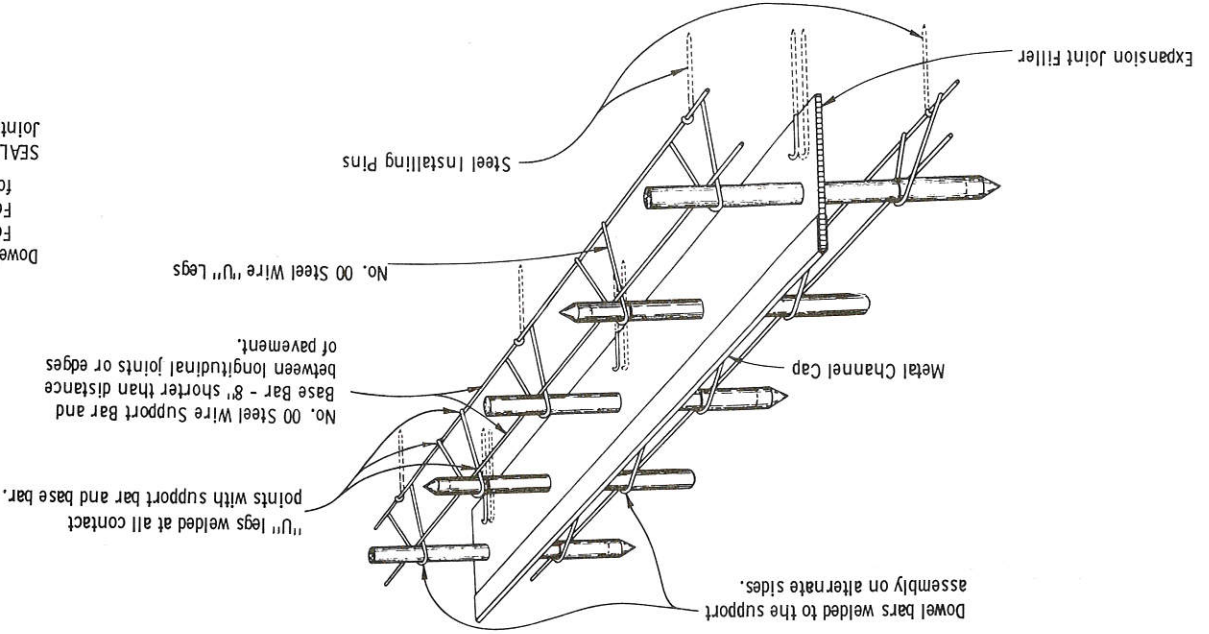
RECOMMENDED FOR APPROVAL: 6-12-73  
 CHIEF OF FACILITIES DEVELOPMENT  
 APPROVED: 6-19-73  
 STATE HIGHWAY ENGINEER



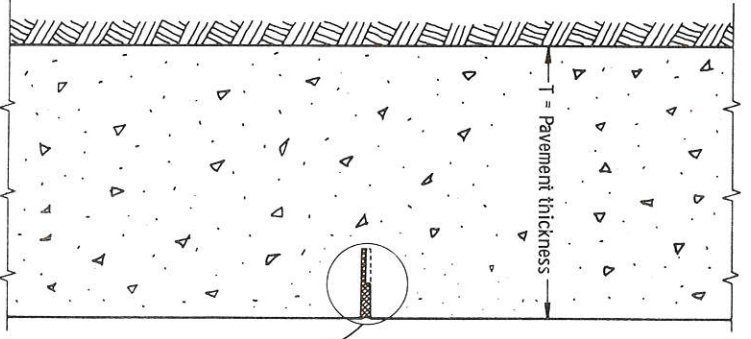
**SCHEMATIC SHOWING JOINT LOCATIONS**



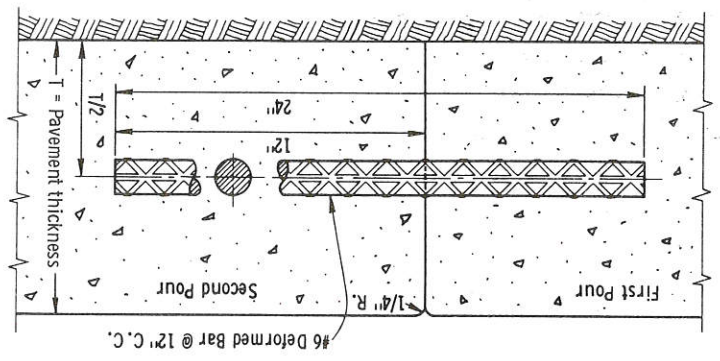
**EXPANSION JOINT**



**INSTALLING DEVICE FOR LOAD TRANSFER DOWELS AND EXPANSION JOINT ASSEMBLY**



**CONTRACTION JOINT**

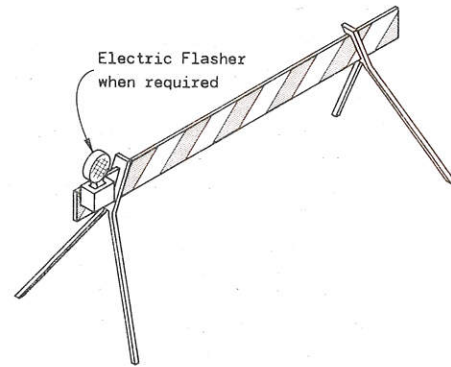


**CONSTRUCTION JOINT**

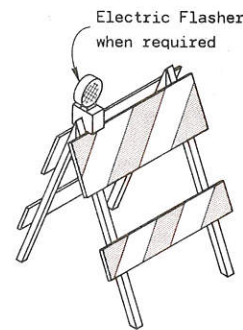
TABLE OF BARRICADE CHARACTERISTICS

BARRICADE TYPE	I	II	III
Height	3'(91.4 cm) Min.		5'(152.4 cm) Min.
* Rail Width	8"(20.3 cm) Min. to 12"(30.5 cm) Max.		
Rail Length	2'(61.0 cm) Min. to Variable Maximum		
** Stripe Width	6" (15.2 cm) at 45° Angle		
Stripe Colors	Reflectorized Orange & White		

\* Nominal dimensions when barricade is constructed of lumber.  
 \*\* May be 4"(10.2 cm) for rail lengths less than 3'(91.4 cm).



TYPICAL TYPE I BARRICADE



TYPICAL TYPE II BARRICADE

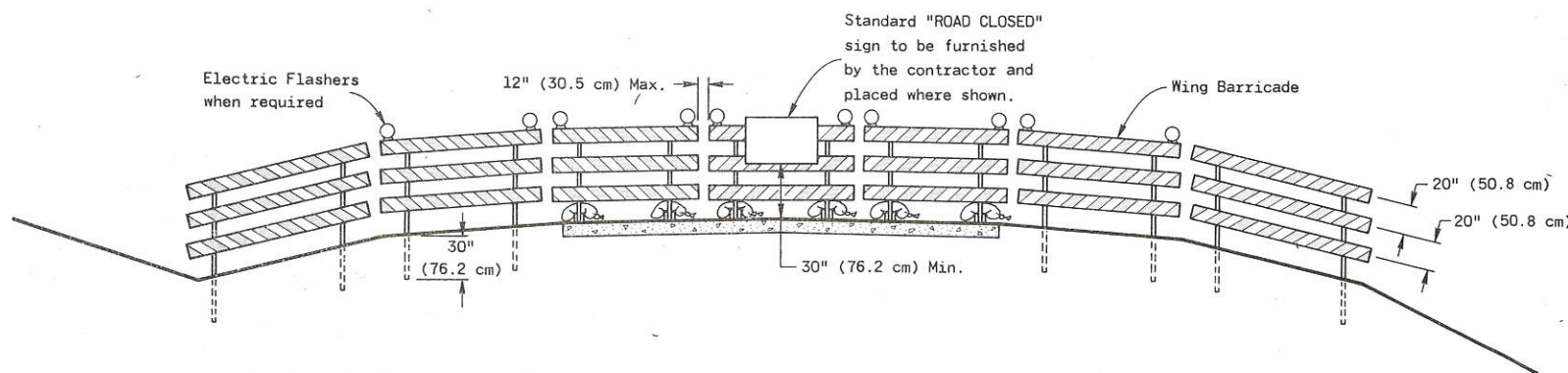


W20-3  
 48"(121.9 cm) x 48"(121.9 cm)  
 Black Lettering on Reflective  
 Orange Background  
 Letter Series "D"  
 Letter height 7" (17.8 cm)



R11-2  
 48"(121.9 cm) x 30"(76.2 cm)  
 Black Lettering on Reflective  
 White Background  
 Letter Series "D"  
 Letter height 8" (20.3 cm)

STANDARD SIGNS-TYPE II



TYPICAL INSTALLATION SHOWING TYPE III BARRICADE

CONSTRUCTION BARRICADES

**GENERAL NOTES**

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

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

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

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

**CONSTRUCTION BARRICADES  
& STANDARD SIGNS**

State of Wisconsin  
 Department of Transportation  
 Division of Highways

RECOMMENDED FOR APPROVAL:  
 DATE 6-6-75  
 APPROVED: [Signature]  
 DATE 6-6-75  
 [Signature]  
 STATE HIGHWAY ENGINEER





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