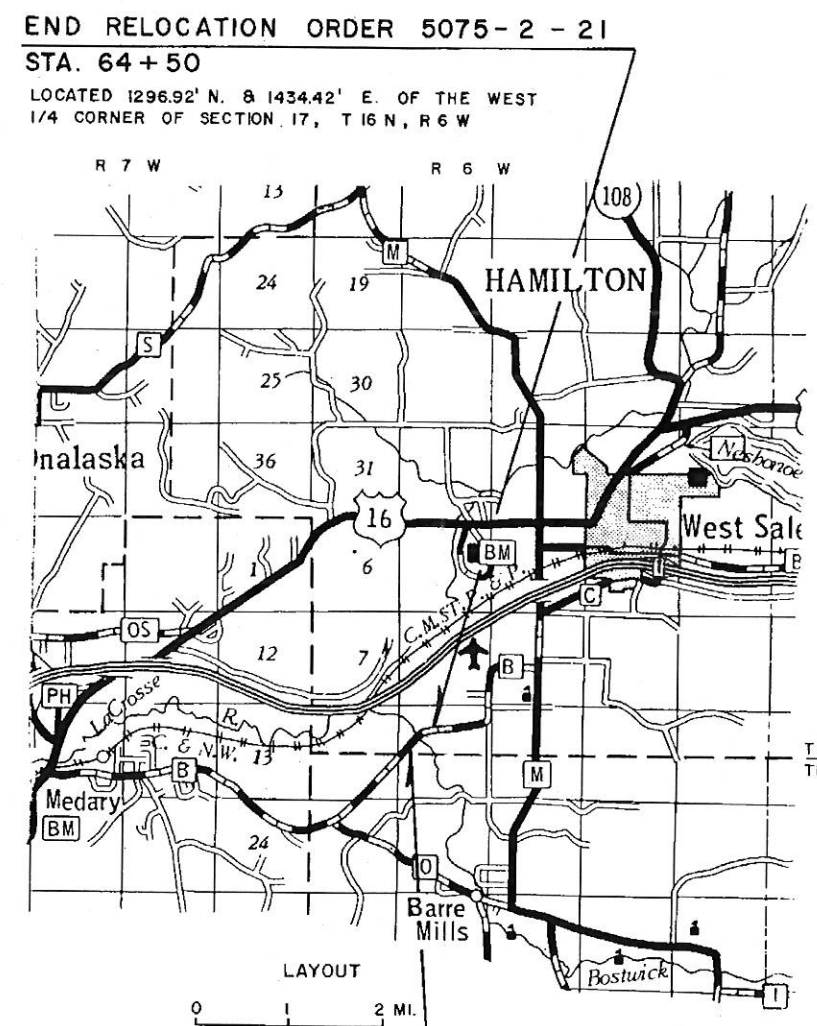


STANDARD ABBREVIATIONS

ABANDON	ABND.	MAXIMUM	MAX.
ABSTRACT	ABS.	MEASURED	(M)
ACCESS POINT	A.P.	MILE	MI.
ACRES	AC.	MINIMUM	MIN
ADDITION	ADD.	MONUMENTS	MON.
AHEAD	AH.	MUNICIPAL	MCPL.
AND OTHERS	ET. AL.	NORTHEAST	NE
AND WIFE	ET. UX.	NORTHWEST	NW
APARTMENT	APT.	NUMBER	NO.
ASSUMED	(A)	OUTLOT	O.L.
AVENUE	AVE.	PAGE	P
BACK	BK.	PARALLEL	PLL.
BARN	B.	PAVEMENT	PAV'T
BASE LINE	BL.	PERMANENT	PERM.
BEARING LONG CHORD	B.L.C.	POINT OF CURVATURE	P.C.
BITUMINOUS	BIT.	POINT OF INTERSECTION	P.I.
BLOCK	BLK.	POINT OF TANGENCY	P.T.
BOULEVARD	BLVD.	POINT OF COMPOUND CURVE	P.C.C.
BRICK	BRK.	POINT OF REVERSE CURVE	P.R.C.
BUILDINGS	BLDGS.	POINT ON CURVE	P.O.C.
CATCH BASIN	C.B.	POINT ON LINE	P.O.L.
CEMETERY	CEM.	POINT ON SEMI-TANGENT	P.O.S.T.
CENTERLINE	CL	PROJECT	PROJ
CENTRAL ANGLE	CA	PROPERTY LINE	P.L.
CHANNEL	CH.	QUIT CLAIM DEED	Q.C.D.
CHANNEL CHANGE	CH. CH.	RADIUS	R
COMMERCIAL	COMM.	RAILROAD	R.R.
COMPANY	COM	REFERENCE LINE	REQ'D
COMPUTED	(C)	REQUIRED	RES.
CONCRETE	CONC.	RESTAURANT	REST.
CONSTRUCTION	CONST.	RIGHT	RT.
CORNER	COR.	RIGHT OF WAY	R/W
CORPORATION	CORP.	ROAD	RD.
COUNTY	CO.	ROADWAY	RDWY.
COUNTY TRUNK HIGHWAY	C.T.H.	SANITARY	SAN.
CREEK	CR.	SCALED	(S)
CULVERT	CULV.	SCHOOL	SCH.
DEED	(D)	SECTION	SEC
DEGREE OF CURVE	D.	SERVICE STATION	S.S.
DISPOSAL	DISP.	SEPTIC TANK	SEP.
DISTRICT	DIST.	SIDEWALK	SWK.
DRIVE	DR.	SHED	S
DRIVEWAY	DWY.	SOUTHEAST	SE
ESTATE	EST.	SOUTHWEST	SW
EXISTING	EX.	SQUARE	SQ.
EXTERNAL DISTANCE	E	STANDARD	STD.
FACTORY	FACT.	STATE TRUNK HIGHWAY	S.T.H.
FEDERAL AID PROJECT	F.A.P.	STATION	STA.
FIELD ENTRANCE	F.E.	STREET	ST.
FIRE HYDRANT	F.H.	SUBDIVISION	SUBD.
FOOT (FEET)	FT.	SURVEY	(S)
FOUNDATION	FDN.	TANGENT	TAN.
GARAGE	G	TANGENT LENGTH OF CURVE	T
GOVERNMENT	GOV'T.	TAPER	TAP.
HIGHWAY	HWY.	TAVERN	TAV.
HOUSE	H	TEMPORARY	TEMP.
INCHES	IN.	TRANSIT LINE	TL
INCORPORATED	INC.	TRANSMISSION TOWER	T.T.
INTERSECTION ANGLE	I	UNITED STATES COAST & GEODETIC SURVEY	U.S.C. & G.S.
INTERSTATE HIGHWAY	I.H.	UNITED STATES GEOLOGICAL SURVEY	U.S.G.S.
IRON PIN	I.P.	UNITED STATES HIGHWAY	U.S.H.
ISLAND	IS.	VENDEE	VDE.
LEFT	LT.	VENDOR	VDR.
LENGTH OF CURVE	L	VITRIFIED	VIT.
LESSEE	LSE	VOLUME	V
LESSOR	LSR	WAREHOUSE	WH.
LIMITED HIGHWAY EASEMENT	L.H.E.	WATER TOWER	W.T.
MAGNETIC	MAG.	WATER	W
MAILING ADDRESS	* 0000	WINDMILL	W.M.
MANHOLE	M.H.	WOOD	WD.
MANUFACTURING	MFG.		

PLAT OF RIGHT OF WAY REQUIRED FOR  
**C.T.H. "O" - C.T.H. "M"**  
 (BOSTWICK CREEK BRIDGE)  
**C.T.H. "B"**  
 LA CROSSE COUNTY



**BEGIN RELOCATION ORDER 5075-2-21**  
**STA. 49 + 74.11**  
 LOCATED 118.41' N. & 618.38' E. OF THE WEST  
 1/4 CORNER OF SECTION 17, T 16 N, R 6 W

NET LENGTH OF CENTERLINE = 0.280 MI.

REVISION DATE	R/W PROJECT NUMBER	SHEET NUMBER
	5075-2-21	4.0
FEDERAL PROJECT NUMBER		
PLAT OF RIGHT OF WAY REQUIRED FOR		
LA CROSSE C.T.H. "B"		
SCALE		DATE
CONSTRUCTION PROJECT NUMBER		8-13-80
5075-2-71/4		

CONVENTIONAL SIGNS	
STATE LINE	TRAVELED WAY (SHOWN ONLY IN AREA OF FRONTAGE ROADS, INTERCHANGES OR DUAL LANES)
COUNTY LINE	
TOWNSHIP AND RANGE LINE	
SECTION LINE	CEMETERY
QUARTER LINE	FOUNDATION
SIXTEENTH LINE	GAS PUMP ISLAND
NEW CENTER LINE	BUILDING
NEW R/W LINE	IRON PIN
OLD R/W LINE	POWER POLE
PROPERTY LINE	TELEPHONE POLE
CORPORATE LIMITS	RAIL LINE
SLOPE INTERCEPTS	TRANSMISSION TOWER AND LINE
LOT, TIE AND OTHER MINOR DASHED LINES	UNDERGROUND CABLE MARKER
UNDERGROUND FACILITY (POWER, TELEPHONE, TELEGRAPH, GAS, ETC.)	WELL
NO ACCESS	STONE MONUMENT
LIMITED HIGHWAY EASEMENT	SEPTIC TANK
HIGHWAY SEPARATION	WINDMILL
HIGHWAY OVERPASS	CATTLE PASS
RAIL LINE OVERPASS	RELOCATED STREAM OR RIVER
ALL OTHER BRIDGES	TELEPHONE PEDESTAL OR RISER
STREAM OR RIVER	
LAKE	

REVISION DATE	STATE OF WISCONSIN DEPARTMENT OF TRANSPORTATION
Approved	Date _____ District Transportation Director
Approved	Date _____ Director Bureau of Real Estate
Approved	U.S. DEPARTMENT OF TRANSPORTATION FEDERAL HIGHWAY ADMINISTRATION REGION 5 WISCONSIN DIVISION
Approved	Date _____ District Administrator

APPROVED FOR  
 DATE 1-6-81  
*Harold Nelson*  
 COUNTY HIGHWAY COMMISSIONER

ORIGINAL PLAT PREPARED BY  
 OWEN AYRES & ASSOCIATES INC  
 CONSULTING ENGINEERS  
 EAU CLAIRE, WISCONSIN  
 DATE 12-15-80

R/W PROJECT NUMBER	5075-2-21	SHEET NUMBER	4.1
FEDERAL PROJECT NUMBER			
PLAT OF RIGHT OF WAY REQUIRED FOR			
LA CROSSE C.T.H. "B"			
SCALE		DATE	8-13-80
CONSTRUCTION PROJECT NUMBER	5075-2-71		4.1

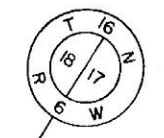
**CURVE DATA**  
 NW - NW  
 17-16-6  
 P.I. 63+10.07  
 D = 11° 00'  
 Δ = 62° 37' 36" RT.  
 R = 520.87'  
 T = 316.86'  
 L = 569.33'  
 E = 88.81'  
 P.C. 59+93.21  
 P.T. 65+62.54 BK =  
 P.T. 65+42.92 AHD.

**CURVE DATA**  
 P.I. 51+00.00  
 D = 3° 00'  
 Δ = 7° 32' 32" LT.  
 R = 1909.86'  
 T = 125.88'  
 L = 251.40'  
 E = 4.14'  
 P.C. 49+74.11  
 P.T. 52+25.52

HAROLD & MARIE TAUSCHER  
 V. 606 P. 847

BEGIN RELOCATION ORDER 5075-2-21

STA. 49+74.11  
 LOCATED 118.41' N. & 618.38' E. OF THE WEST  
 1/4 CORNER OF SECTION 17, T16 N, R 6 W



END RELOCATION ORDER 5075-2-21

STA. 64+50  
 LOCATED 1296.92' N. & 1434.42' E. OF THE WEST  
 1/4 CORNER OF SECTION 17, T16 N, R 6 W

HAROLD & MARIE TAUSCHER  
 V. 606 P. 847

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

SCHEDULE OF LANDS AND INTERESTS REQUIRED

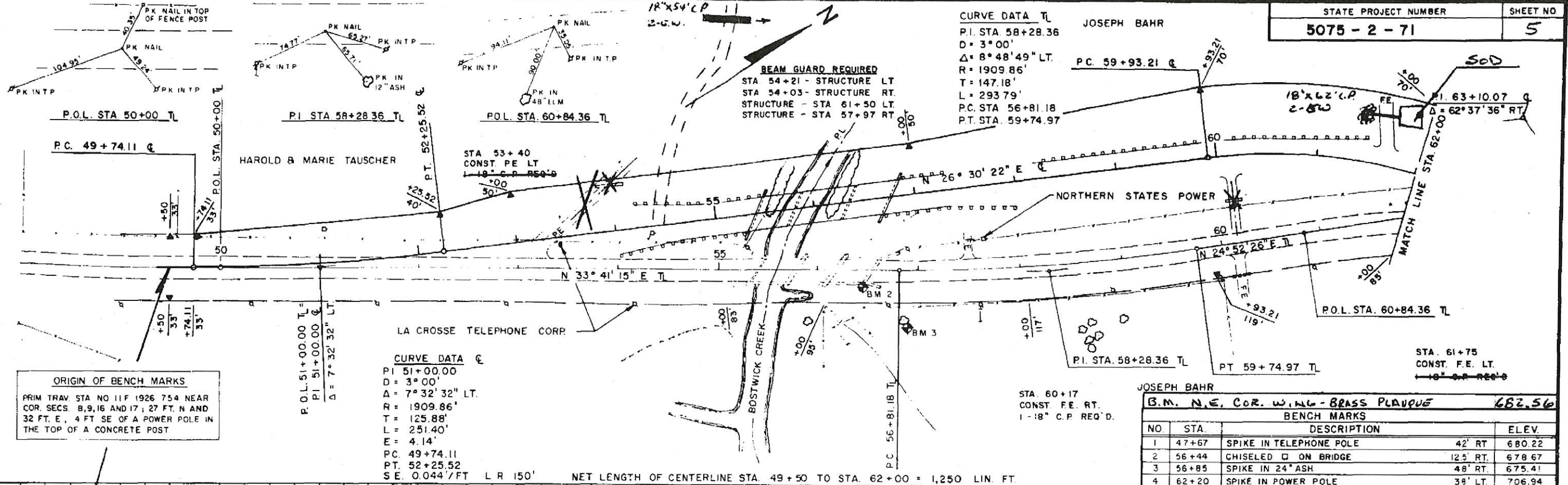
PARCEL NO.	SHEET NO.	OWNER	INTEREST REQUIRED	L.H.E. ACRES	ACRES REQUIRED			TOTAL REMAINING ACRES	OPERATIONS PROJECT I.D.
					NEW R/W	EXISTING R/W	TOTAL R/W REQUIRED		
1	4.1	HAROLD & MARIE TAUSCHER	FEE TITLE		0.53	0.88	1.41		5075-2-21
2	4.1	JOSEPH BAHR	FEE TITLE		1.66	1.23	2.89		5075-2-21
3	4.1	RICHARD & ROBERTA BUTTERFIELD	FEE TITLE		0.08	0.08	0.16		5075-2-21
4	4.1	NORTHERN STATES POWER CO.	RELEASE OF RIGHTS						5075-2-21

CURVE DATA TL  
 P.I. STA 58+28.36  
 D = 3° 00'  
 Δ = 8° 48' 49" LT.  
 R = 1909.86'  
 T = 147.18'  
 L = 293.79'  
 P.C. STA 56+81.18  
 P.T. STA 59+74.97

JOSEPH BAHR  
 STA 60+17  
 CONST. F.E. RT.  
 1-18" C.P. REQ'D.

JOSEPH BAHR  
 B.M. N.E. COR. WING - BRASS PLAQUE 682.56

BENCH MARKS			
NO	STA	DESCRIPTION	ELEV.
1	47+67	SPIKE IN TELEPHONE POLE	42' RT. 680.22
2	56+44	CHISELED □ ON BRIDGE	125' RT. 678.67
3	56+85	SPIKE IN 24" ASH	48' RT. 675.41
4	62+20	SPIKE IN POWER POLE	39' LT. 706.94



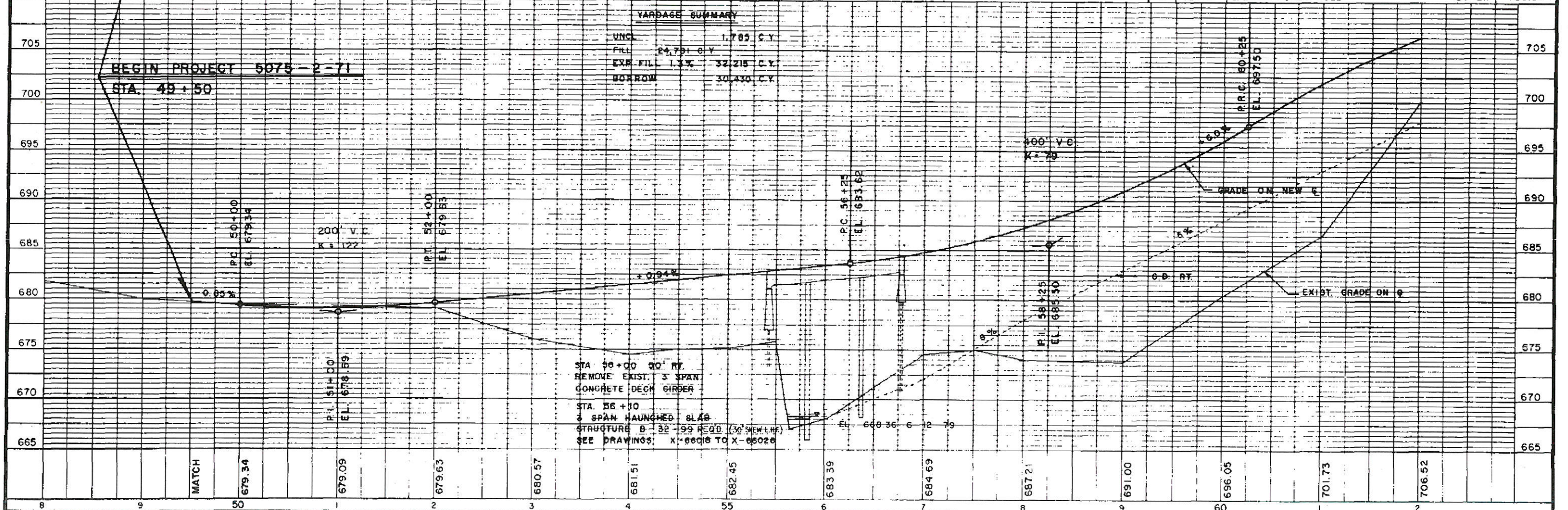
ORIGIN OF BENCH MARKS  
 PRIM TRAV. STA NO 11F 1926 754 NEAR  
 COR. SECS. 8, 9, 16 AND 17; 27 FT. N AND  
 32 FT. E, 4 FT. SE OF A POWER POLE IN  
 THE TOP OF A CONCRETE POST

CURVE DATA CL  
 P.I. 51+00.00  
 D = 3° 00'  
 Δ = 7° 32' 32" LT.  
 R = 1909.86'  
 T = 125.88'  
 L = 251.40'  
 E = 4.14'  
 P.C. 49+74.11  
 P.T. 52+25.52  
 S.E. 0.044'/FT L R 150'

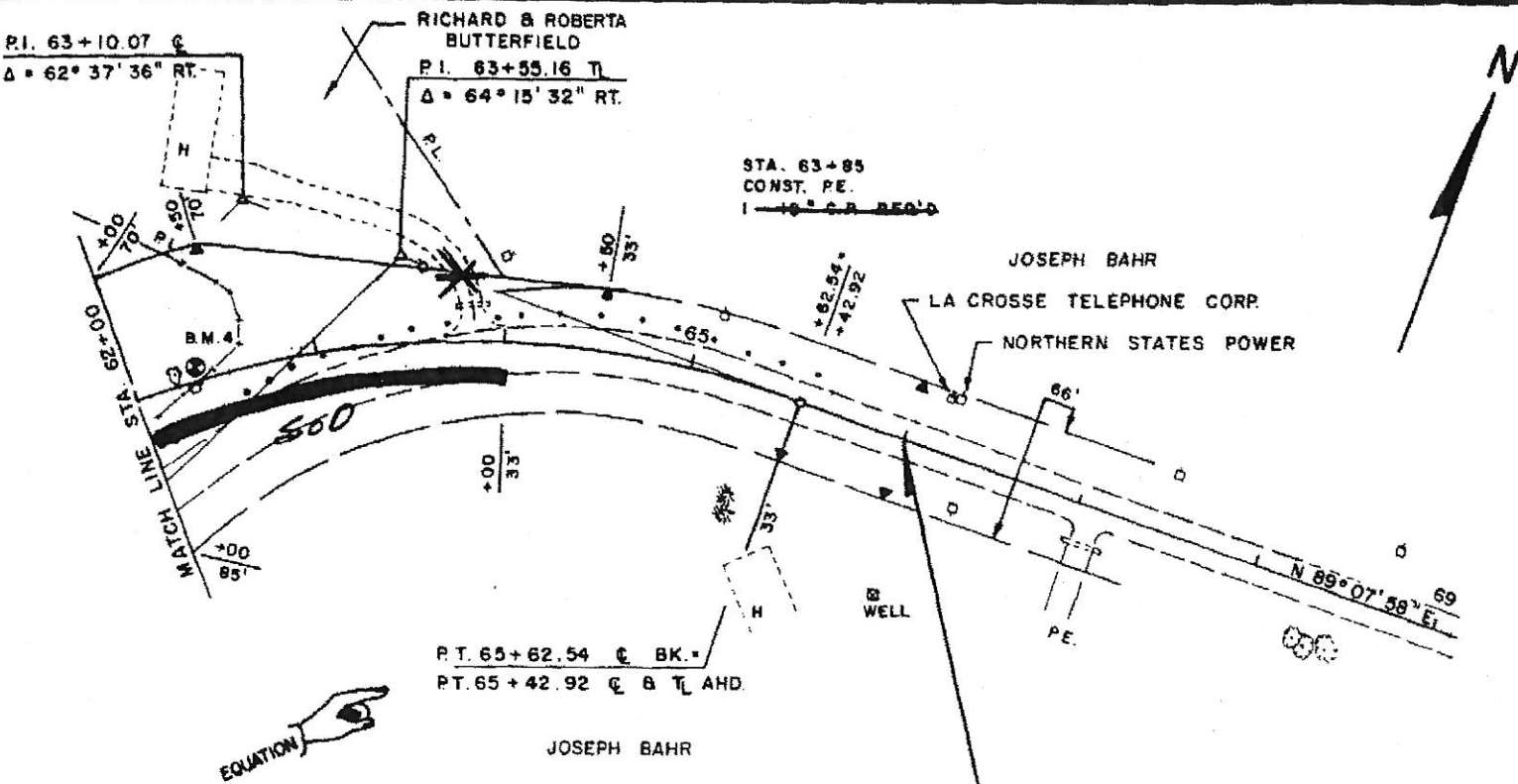
NET LENGTH OF CENTERLINE STA. 49+50 TO STA. 62+00 = 1,250 LIN. FT.

YARDAGE SUMMARY

UNCL.	1,789 C.Y.
FILL	24,791 C.Y.
EXR. FILL 1.3%	32,215 C.Y.
BORROW	30,430 C.Y.



STA 56+00 30' RT.  
 REMOVE EXIST. 3 SPAN  
 CONCRETE DECK GIRDER  
 STA 56+10  
 3 SPAN HAUNCHED SLAB  
 STRUCTURE B-32-99 REQ'D (30' NEW L.H.F.)  
 SEE DRAWINGS: X-66016 TO X-66026

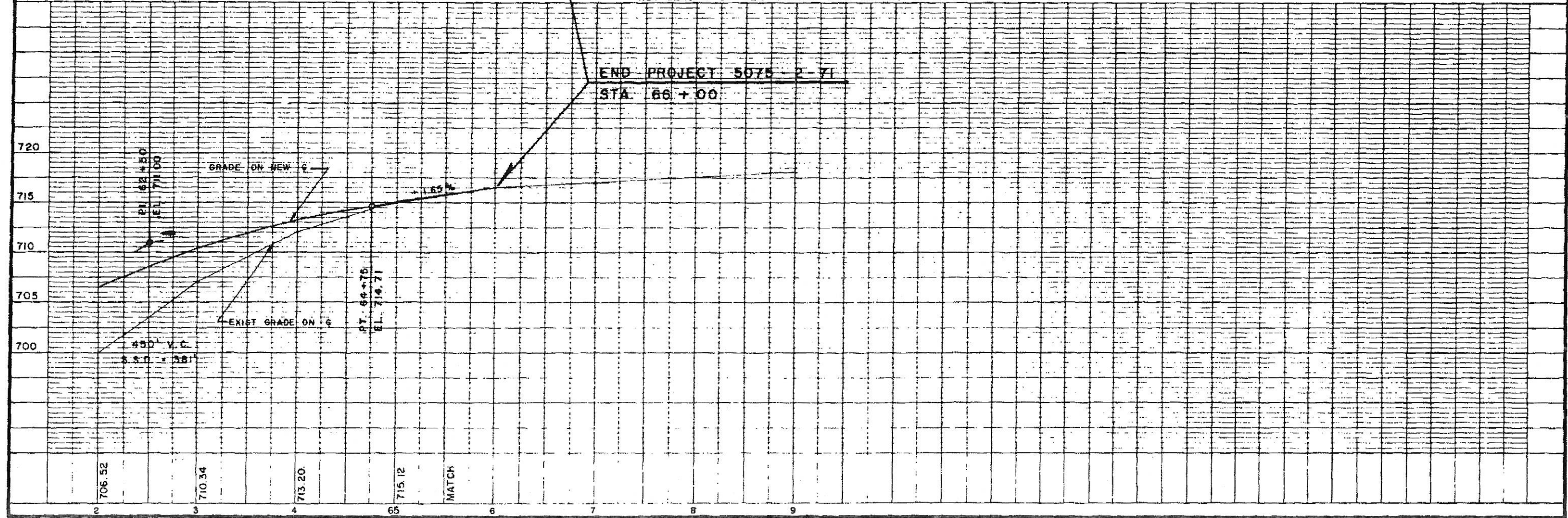


CURVE DATA  $\epsilon$

PI.	63+10.07
D	$11^{\circ} 00'$
$\Delta$	$62^{\circ} 37' 36''$ RT.
R	520.87'
T	316.86'
L	569.33'
E	88.81'
PC	59+93.21
PT	65+62.54 BK.
PT	65+42.92 AHD.
S.E.	0.06'/FT.
L.R.	130'

NET LENGTH OF CENTERLINE STA. 62+00 TO 66+00 = 400 LIN. FT.

END PROJECT 5075-2-71  
STA. 66+00



**Index of Sheets**

Sheet No. 1	Title
Sheet No. 2	Typical Sections and Details
Sheet No. 3	Estimate of Quantities
Sheet No. 3A	Miscellaneous Quantities
Sheet No. 4-4.1	Right of Way Plat
Sheet No. 5-5.1	Plan and Profile
Sheet No. 6-6.7	Standard Detail Drawings
Sheet No. —	Standard Sign Plates
Sheet No. 8-8.8	Structure Plans
Sheet No. —	Computer Earthwork Data
Sheet No. 9-9.3	Cross Sections

TOTAL SHEETS = 29



# STATE OF WISCONSIN DEPARTMENT OF TRANSPORTATION

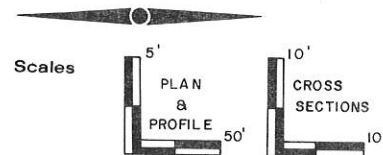
## PLAN OF PROPOSED IMPROVEMENT

### C. T. H. "O" - C. T. H. "M"

(BOSTWICK CREEK BRIDGE AND APPROACHES)

C. T. H. "B"  
LA CROSSE COUNTY

STATE PROJECT NUMBER  
**5075-2-71**



**BEGIN PROJECT  
STA. 49+00**

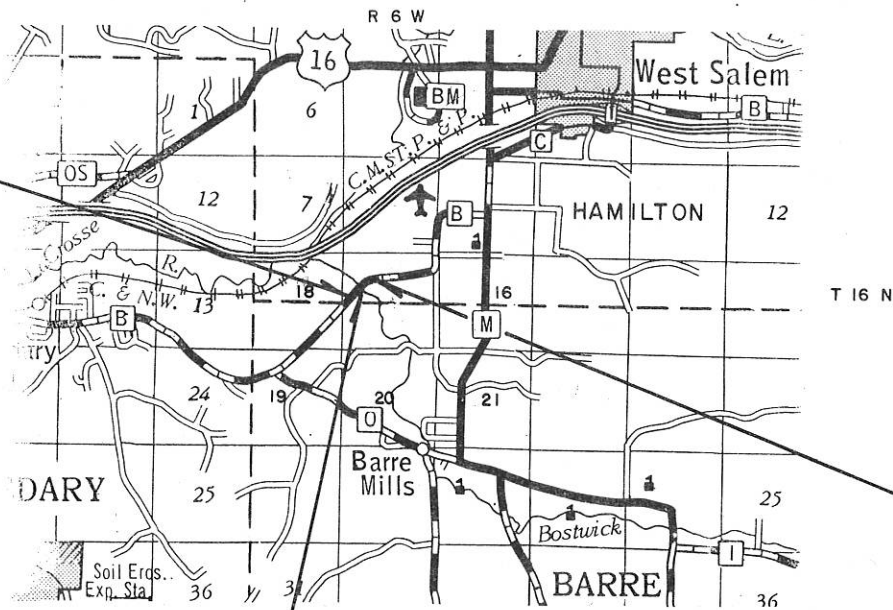
N. 681,150 (± 200')  
E. 1,702,360 (± 200')

**Design Designation**

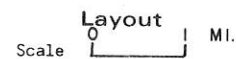
A.D.T. 1980	=	645
A.D.T. 2000	=	830
D.H.V.	=	141
D.	=	50-50
T.	=	8%
V.	=	50 M.P.H.

**Conventional Signs**

County Line	— — — — —	Caution Symbol (Combustible fluids under pressure)	
Township or Range Line	- - - - -	Railroads	—+—+—+—+—
Section Line	— · — · — · — · —	Fence	—x—x—x—x—
Corporate or City Limits	//////	Culverts in Place	— · — · — · — · —
Property line	- - - - -	Culverts Required	— · — · — · — · —
Lot Line	- - - - -	Power Pole	— · — · — · — · —
Existing Right of Way Line	— · — · — · — · —	Telephone or Telegraph Pole	— · — · — · — · —
New Right of Way Line	— · — · — · — · —	Right of Way Markers	— · — · — · — · —
Base or Survey Line	— · — · — · — · —	Marsh	
Slope Intercept	— · — · — · — · —	Wooded Area	
Existing Roadway or Private Entrance	— · — · — · — · —	Grade Elevation	



STRUCTURE B-32-99



Total Net Length of Centerline = 0.316 Mi.

**END PROJECT  
STA. 66+00**

COORDINATES SHOWN ON THIS PLAN ARE SCALED FROM THE LA CROSSE WISCONSIN QUADRANGLE MAP SOUTH ZONE, AND ARE SHOWN FOR INFORMATION ONLY.

STATE PROJECT	FEDERAL PROJECT	
	PROJECT	CONTRACT
5075-2-71	BRZ 3299(17)	I

PLANS & GRADES APPROVED FOR  
LA CROSSE COUNTY

DATE 1-6-81 *Harold P. Nelson*  
COUNTY HIGHWAY COMMISSIONER

ORIGINAL PLANS PREPARED BY  
**OWEN AYRES & ASSOCIATES INC**  
CONSULTING ENGINEERS  
EAU CLAIRE WISCONSIN

DATE 12-15-80

STATE OF WISCONSIN  
DEPARTMENT OF TRANSPORTATION

Surveyor **OWEN AYRES & ASSOC.** District Checker A.L.P.  
Designer **OWEN AYRES & ASSOC.** C.O. Checker 7/84  
District Supervisor G.W.P. C.O. Coordinator 8/74

Approved: \_\_\_\_\_  
Date 6-2-82 *T.R. Kiser*  
District Transportation Director

Approved: \_\_\_\_\_  
Date 9-27-82 *D.D. Strand*  
Chief Design Engineer

Approved: \_\_\_\_\_  
Date 9/27/82 *E.J. Byrkit*  
Director of Development

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

Approved: \_\_\_\_\_  
Date \_\_\_\_\_  
Division Administrator

E S T I M A T E O F Q U A N T I T I E S

DATE 10/26/82

PROJECT ID: 5075-02-71  
 LA CROSSE COUNTY  
 C.T.H. 0 - C.T.H. M ROAD  
 BOSTWICK CREEK BRIDGE & APPROACHES  
 C.T.H. B

ITEM	ITEM DESCRIPTION	UNIT	TOTAL	5075-02-71 QUANTITY
20101	CLEARING	STA.	5.00	5.00
20104	GRUBBING	STA.	5.00	5.00
20351	REMOVING OLD BRIDGE, STATION 56+00	L.S.	1.00	1.00
20503	UNCLASSIFIED EXCAVATION	C.Y.	1,785.00	1,785.00
20610	EXCAVATION FOR STRUCTURES, BRIDGES B-32-99	L.S.	1.00	1.00
20801	BORROW EXCAVATION	C.Y.	30,430.00	30,430.00
21301	FINISHING ROADWAY	L.S.	1.00	1.00
30403	CRUSHED AGGREGATE - BASE COURSE	C.Y.	2,242.00	2,242.00
50201	CONCRETE MASONRY, BRIDGES	C.Y.	423.00	423.00
50504	HIGH-STRENGTH BAR STEEL REINFORCEMENT, BRIDGES	LB.	60,400.00	60,400.00
51030	CAST-IN-PLACE CONCRETE PILING, DELIVERED AND DRIVEN, 10-3/4 INCH	L.F.	1,920.00	1,920.00
51340	TUBULAR RAILING, TYPE F, STRUCTURE B-32-99	L.S.	1.00	1.00
52003	CULVERT PIPE, CLASS III, 18-INCH	L.F.	118.00	118.00
52061	APRON ENDWALLS FOR CULVERT PIPE, 18-INCH	EACH	8.00	8.00
60602	HEAVY RIPRAP	C.Y.	365.00	365.00
61406	ANCHORAGES FOR STEEL PLATE BEAM GUARD	EACH	4.00	4.00
61408	STEEL PLATE BEAM GUARD, CLASS A	L.F.	848.00	848.00
61422	MARKER POSTS FOR RIGHT-OF-WAY	EACH	13.00	13.00
61910	MOBILIZATION	L.S.	1.00	1.00
62505	SALVAGED TOPSOIL	S.Y.	9,840.00	9,840.00
62702	MULCHING	S.Y.	8,960.00	8,960.00
62802	EROSION MAT	S.Y.	880.00	880.00
62810	EROSION BALES	EACH	70.00	70.00
62905	FERTILIZER, TYPE B	CWT.	11.00	11.00
63002	SEEDING	LB.	360.00	360.00
63101	SODDING	S.Y.	880.00	880.00
64201	FIELD OFFICE, TYPE A	L.S.	1.00	1.00
64301	TRAFFIC CONTROL	L.S.	1.00	1.00
90089	SINGLE AGGREGATE BITUMINOUS MIX	TON	450.00	450.00

SHEET 3

STANDARD ABBREVIATIONS

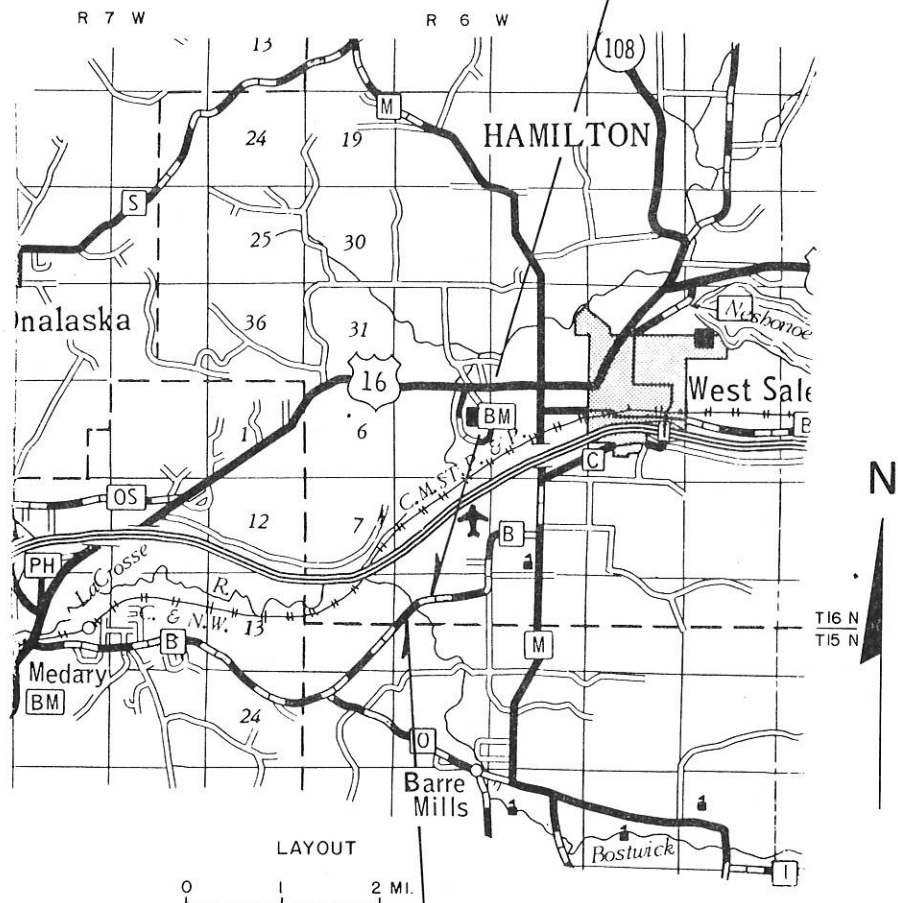
ABANDON	ABND.	MAXIMUM	MAX.
ABSTRACT	ABS.	MEASURED	(M)
ACCESS POINT	A.P.	MILE	MI.
ACRES	AC.	MINIMUM	MIN
ADDITION	ADD.	MONUMENTS	MON.
AHEAD	AH.	MUNICIPAL	MCPL.
AND OTHERS	ET. AL.	NORTHEAST	NE
AND WIFE	ET. UX.	NORTHWEST	NW
APARTMENT	APT.	NUMBER	NO.
ASSUMED	(A)	OUTLOT	O.L.
AVENUE	AVE.	PAGE	P
BACK	BK.	PARALLEL	PLL.
BARN	B.	PAVEMENT	PAV'T
BASE LINE	BL.	PERMANENT	PERM.
BEARING LONG CHORD	B.L.C.	POINT OF CURVATURE	P.C.
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CENTERLINE	CL.	PROJECT	PROJ.
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CHANNEL	CH.	QUIT CLAIM DEED	Q.C.D.
CHANNEL CHANGE	CH. CH.	RADIUS	R
COMMERCIAL	COMM.	RAILROAD	R.R.
COMPANY	COM	REFERENCE LINE	R
COMPUTED	(C)	REQUIRED	REQ'D.
CONCRETE	CONC.	RESIDENTIAL	RES.
CONSTRUCTION	CONST.	RESTAURANT	REST.
CORNER	COR.	RIGHT	RT.
CORPORATION	CORP.	RIGHT OF WAY	R/W
COUNTY	CO.	ROAD	RD.
COUNTY TRUNK HIGHWAY	C.T.H.	ROADWAY	RDWY.
CREEK	CR.	SANITARY	SAN.
CULVERT	CULV.	SCALED	(S)
DEED	(D)	SCHOOL	SCH.
DEGREE OF CURVE	D.	SECTION	SEC.
DISPOSAL	DISP.	SERVICE STATION	S.S.
DISTRICT	DIST.	SEPTIC TANK	SEP.
DRIVE	DR.	SIDEWALK	SWK.
DRIVEWAY	DWY.	SHED	S
ESTATE	EST.	SOUTHEAST	SE
EXISTING	EX.	SOUTHWEST	SW
EXTERNAL DISTANCE	E	SQUARE	SQ.
FACTORY	FACT.	STANDARD	STD.
FEDERAL AID PROJECT	F.A.P.	STATE TRUNK HIGHWAY	S.T.H.
FIELD ENTRANCE	F.E.	STATION	STA.
FIRE HYDRANT	F.H.	STREET	ST.
FOOT (FEET)	FT.	SUBDIVISION	SUBD.
FOUNDATION	FDN.	SURVEY	(S)
GARAGE	G	TANGENT	TAN.
GOVERNMENT	GOV'T.	TANGENT LENGTH OF CURVE	T
HIGHWAY	HWY.	TAPER	TAP.
HOUSE	H	TAVERN	TAV.
INCHES	IN.	TEMPORARY	TEMP.
INCORPORATED	INC.	TRANSIT LINE	TL
INTERSECTION ANGLE	I	TRANSMISSION TOWER	T.T.
INTERSTATE HIGHWAY	I.H.	UNITED STATES COAST & GEODETIC SURVEY	USC.&G.S.
IRON PIN	I.P.	UNITED STATES GEOLOGICAL SURVEY	U.S.G.S.
ISLAND	IS.	UNITED STATES HIGHWAY	U.S.H.
LEFT	LT.	VENDEE	VDE.
LENGTH OF CURVE	L	VENDOR	VDR.
LESSEE	LSE	VITRIFIED	VIT.
LESSOR	LSR	VOLUME	V.
LIMITED HIGHWAY EASEMENT	L.H.E.	WAREHOUSE	W.H.
MAGNETIC	MAG.	WATER TOWER	W.T.
MAILING ADDRESS	# 0000	WATER	W
MANHOLE	M.H.	WINDMILL	W.M.
MANUFACTURING	MFG.	WOOD	WD.

PLAT OF RIGHT OF WAY REQUIRED FOR  
**C.T.H. "O" - C.T.H. "M"**  
 (BOSTWICK CREEK BRIDGE)  
**C.T.H. "B"**  
 LA CROSSE COUNTY

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STA. 64 + 50

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 1/4 CORNER OF SECTION 17, T16 N, R6 W

NET LENGTH OF CENTERLINE = 0.280 MI.

REVISION DATE	R/W PROJECT NUMBER 5075-2-21	SHEET NUMBER 4.0
FEDERAL PROJECT NUMBER		
PLAT OF RIGHT OF WAY REQUIRED FOR LA CROSSE C.T.H. "B"		
SCALE	DATE 8-13-80	
CONSTRUCTION PROJECT NUMBER 5075-2-71/4		

CONVENTIONAL SIGNS	
STATE LINE	TRAVELED WAY (SHOWN ONLY IN AREA OF FRONTAGE ROADS, INTERCHANGES OR DUAL LANES)
COUNTY LINE	
TOWNSHIP AND RANGE LINE	
SECTION LINE	CEMETERY
QUARTER LINE	FOUNDATION
SIXTEENTH LINE	GAS PUMP ISLAND
NEW CENTER LINE	BUILDING
NEW R/W LINE	IRON PIN
OLD R/W LINE	POWER POLE
PROPERTY LINE	TELEPHONE POLE
CORPORATE LIMITS	RAIL LINE
SLOPE INTERCEPTS	TRANSMISSION TOWER AND LINE
LOT, TIE AND OTHER MINOR DASHED LINES	UNDERGROUND CABLE MARKER
UNDERGROUND FACILITY (POWER, TELEPHONE, TELEGRAPH, GAS, ETC.)	WELL
NO ACCESS	STONE MONUMENT
LIMITED HIGHWAY EASEMENT	SEPTIC TANK
HIGHWAY SEPARATION	WINDMILL
HIGHWAY OVERPASS	CATTLE PASS
RAIL LINE OVERPASS	RELOCATED STREAM OR RIVER
ALL OTHER BRIDGES	TELEPHONE PEDESTAL OR RISER
STREAM OR RIVER	
LAKE	

REVISION DATE	STATE OF WISCONSIN DEPARTMENT OF TRANSPORTATION
Approved	Date _____ District Transportation Director
Approved	Date _____ Director Bureau of Real Estate
Approved	Date _____ Division Administrator

APPROVED FOR

1-6-81 *Harold Nelson*  
 DATE COUNTY HIGHWAY COMMISSIONER

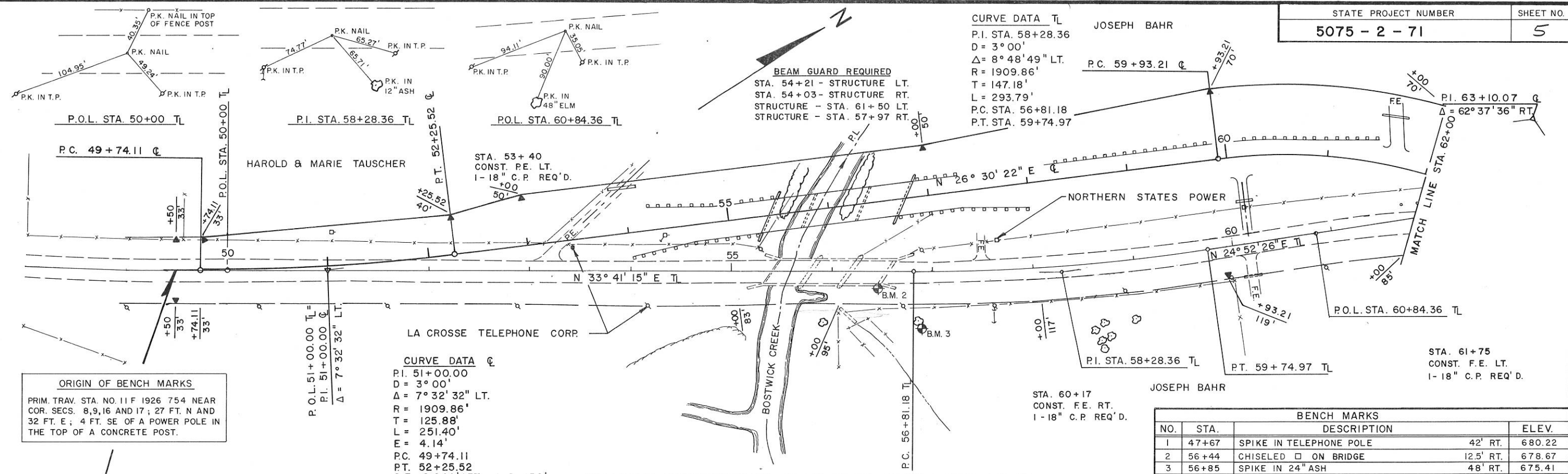
*John Nelson*

ORIGINAL PLAT PREPARED BY  
 OWEN AYRES & ASSOCIATES INC  
 CONSULTING ENGINEERS  
 EAU CLAIRE, WISCONSIN  
 DATE 12-15-80

CURVE DATA TL  
 P.I. STA. 58+28.36  
 D = 3° 00'  
 Δ = 8° 48' 49" LT.  
 R = 1909.86'  
 T = 147.18'  
 L = 293.79'  
 P.C. STA. 56+81.18  
 P.T. STA. 59+74.97

JOSEPH BAHR

BEAM GUARD REQUIRED  
 STA. 54+21 - STRUCTURE LT.  
 STA. 54+03 - STRUCTURE RT.  
 STRUCTURE - STA. 61+50 LT.  
 STRUCTURE - STA. 57+97 RT.



ORIGIN OF BENCH MARKS  
 PRIM. TRAV. STA. NO. 11 F 1926 754 NEAR  
 COR. SECS. 8,9,16 AND 17; 27 FT. N AND  
 32 FT. E; 4 FT. SE OF A POWER POLE IN  
 THE TOP OF A CONCRETE POST.

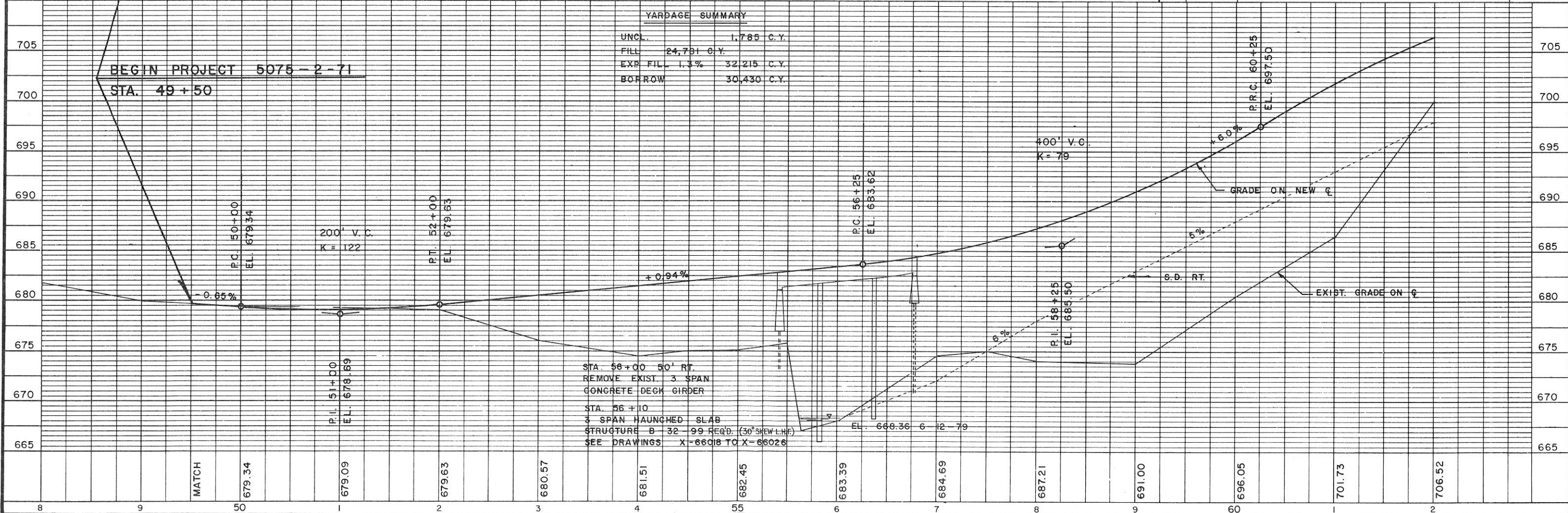
CURVE DATA CL  
 P.I. 51+00.00  
 D = 3° 00'  
 Δ = 7° 32' 32" LT.  
 R = 1909.86'  
 T = 125.88'  
 L = 251.40'  
 E = 4.14'  
 P.C. 49+74.11  
 P.T. 52+25.52  
 S.E. 0.044'/FT. L.R. 150'

NET LENGTH OF CENTERLINE STA. 49+50 TO STA. 62+00 = 1,250 LIN. FT.

BENCH MARKS				
NO.	STA.	DESCRIPTION		ELEV.
1	47+67	SPIKE IN TELEPHONE POLE	42' RT.	680.22
2	56+44	CHISELED □ ON BRIDGE	12.5' RT.	678.67
3	56+85	SPIKE IN 24" ASH	48' RT.	675.41
4	62+20	SPIKE IN POWER POLE	38' LT.	706.94

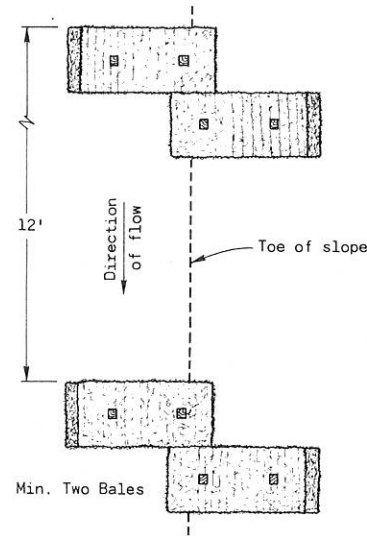
YARDAGE SUMMARY

UNCL.	1,785 C.Y.
FILL	24,781 C.Y.
EXP. FIL.	1.3% 32,215 C.Y.
BORROW	30,430 C.Y.

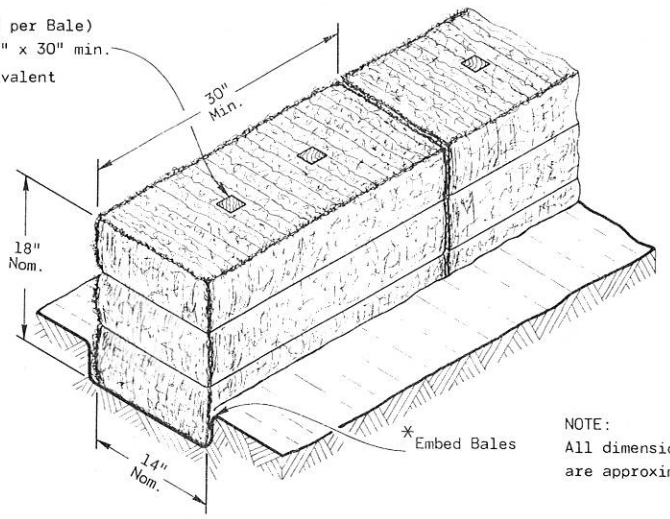


STA. 58+00 50' RT.  
 REMOVE EXIST. 3 SPAN  
 CONCRETE DECK GIRDER  
 STA. 56+10  
 3 SPAN HAUNCHED SLAB  
 STRUCTURE B 32-99 REQ'D. (30° SKEW L.H.F.)  
 SEE DRAWINGS X-66018 TO X-66026





PLAN VIEW



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

NOTE:  
All dimensions  
are approximate

DETAIL OF EROSION BALE INSTALLATION

**GENERAL NOTES**

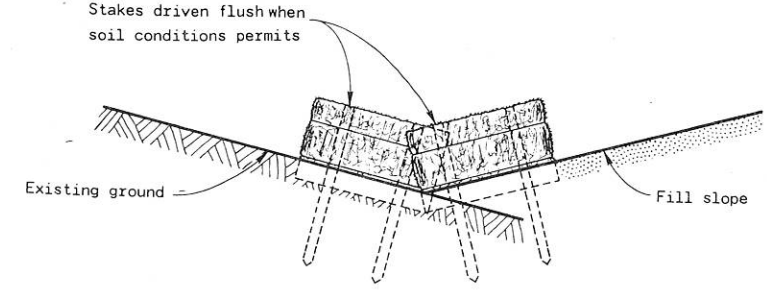
Details of construction, materials and workmanship not shown on this drawing shall conform to the pertinent requirements of the Standard Specifications and the applicable Special Provisions.

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

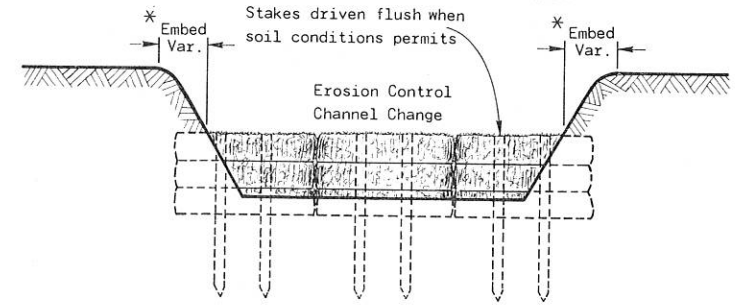
Bales shall be placed with twine or tie wires parallel to the ground.

Stakes to be battered in opposite directions.

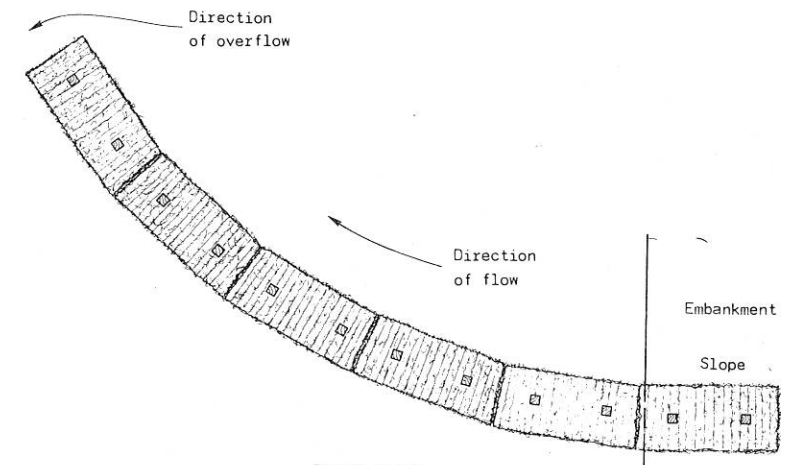
\* As determined by the Engineer.



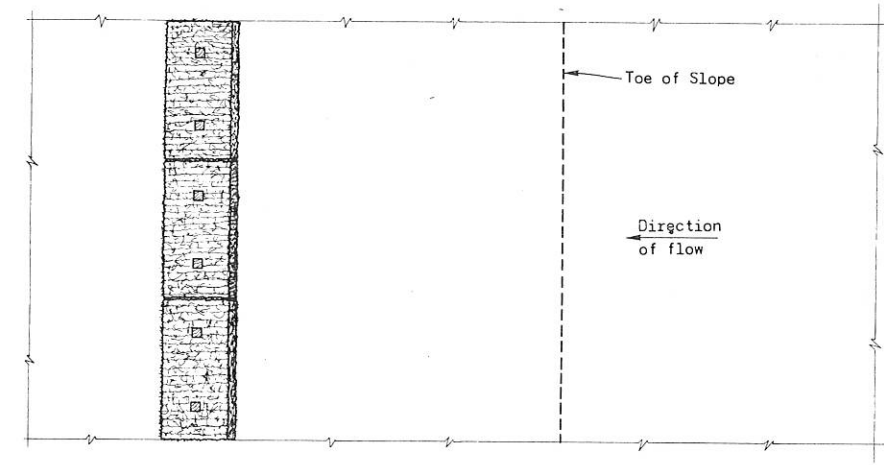
FRONT ELEVATION  
WHEN EXISTING GROUND  
SLOPES TOWARD FILL SLOPE



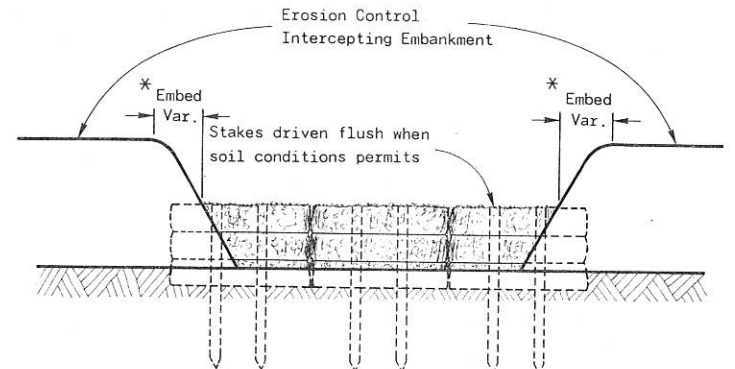
EROSION CONTROL CHANNEL CHANGE



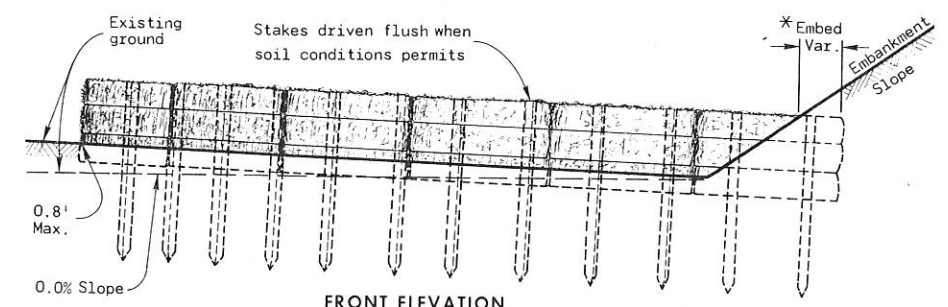
PLAN VIEW



PLAN VIEW



EROSION CONTROL INTERCEPTING EMBANKMENT

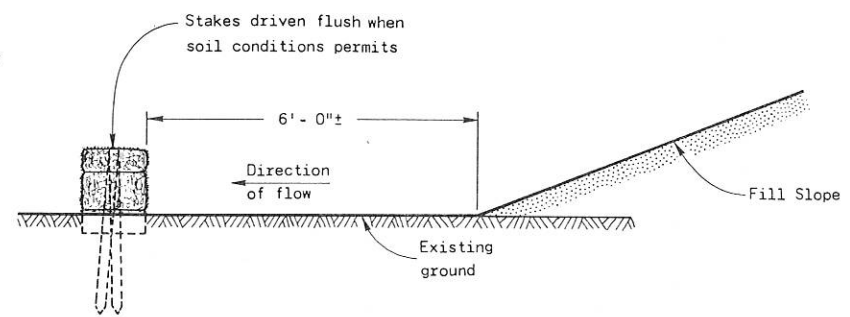


FRONT ELEVATION

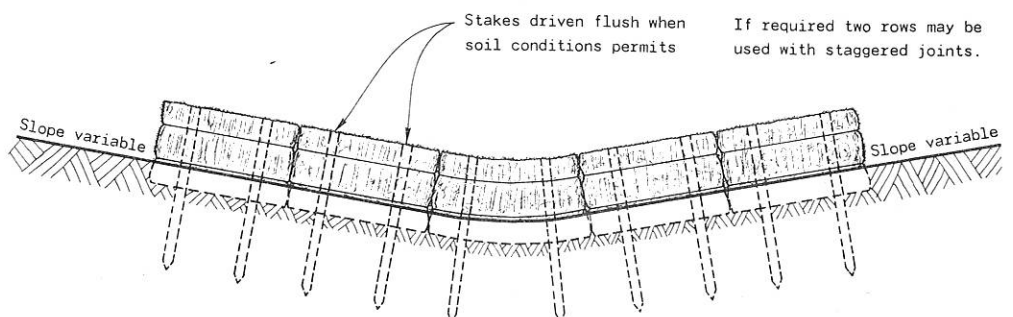
EROSION BALES AT TOE OF SLOPE



PLAN VIEW



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



FRONT ELEVATION  
EROSION BALES ACROSS DITCH BOTTOM

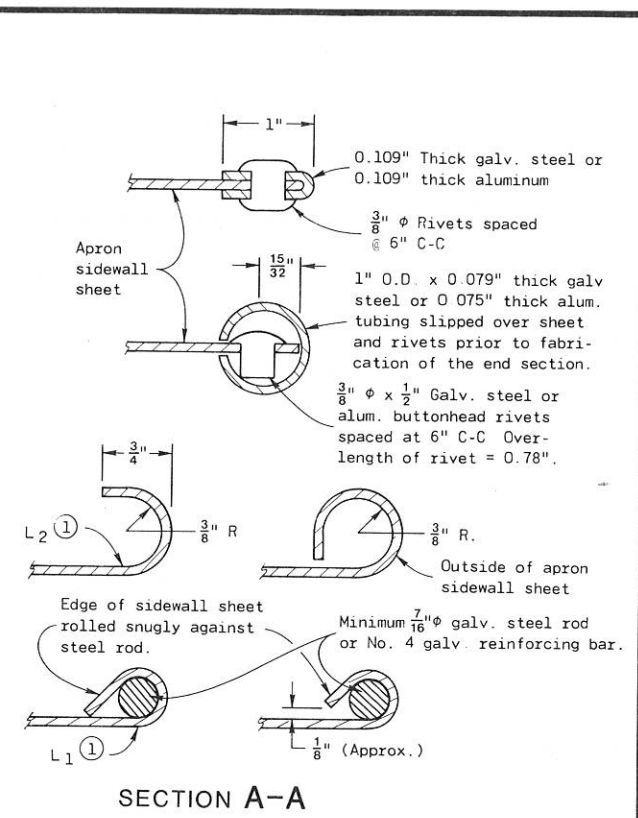
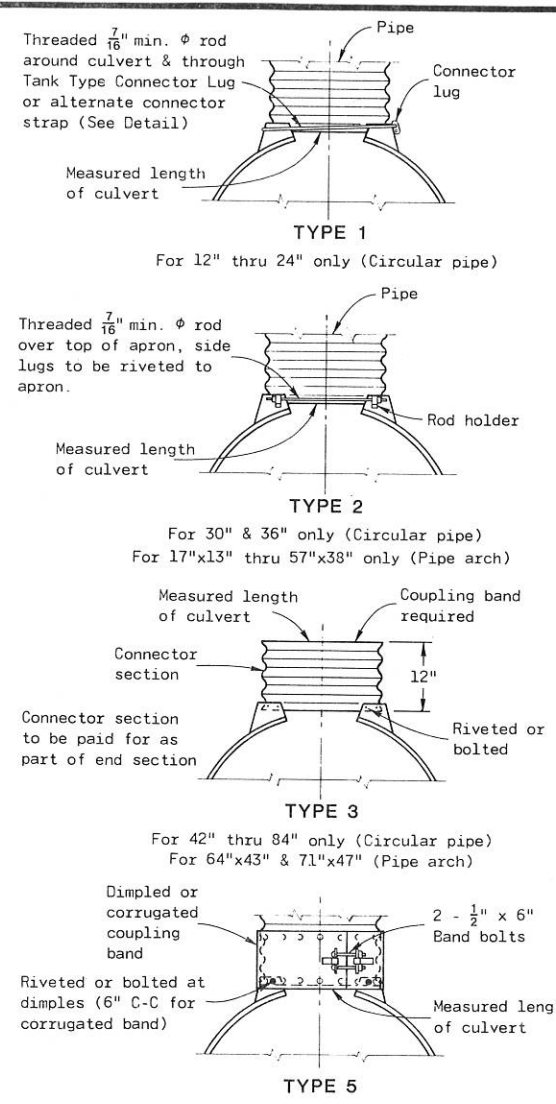
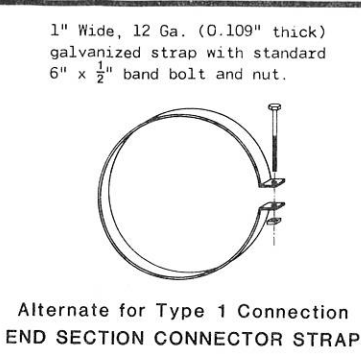
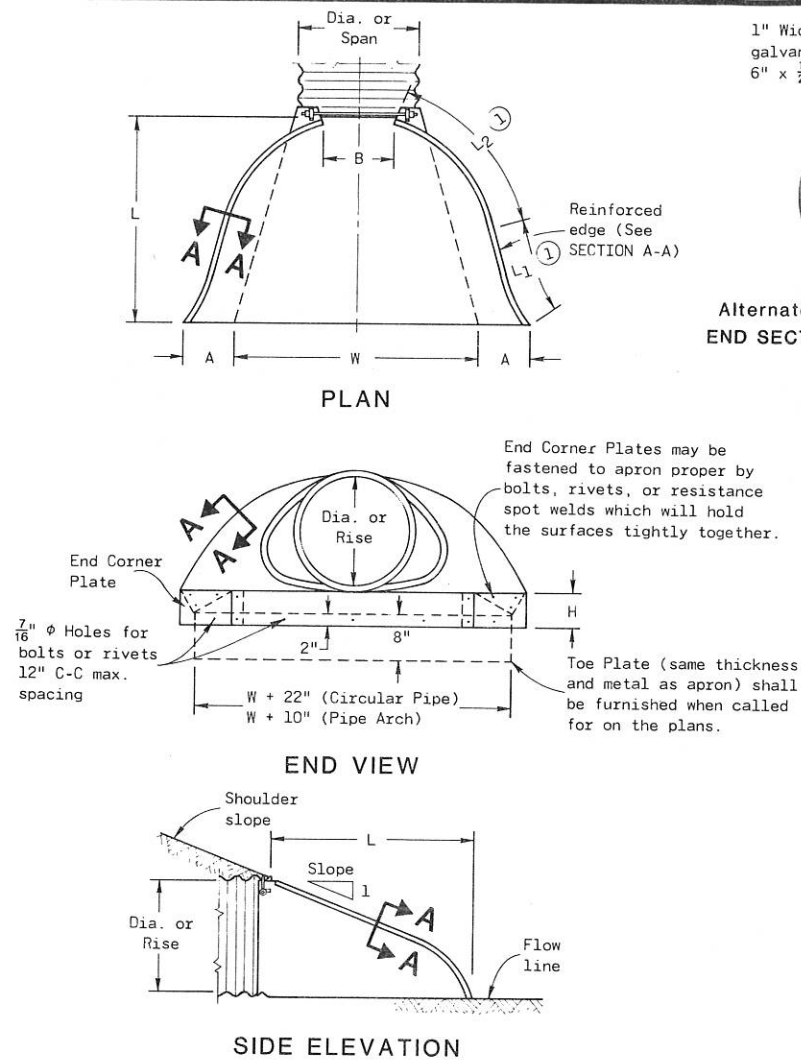
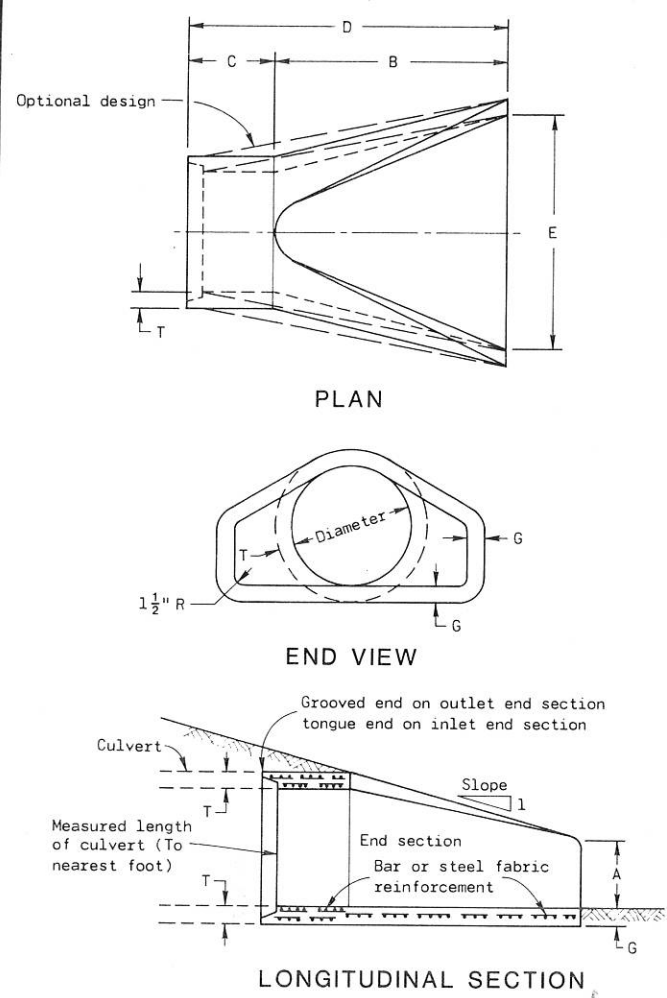
TYPICAL INSTALLATIONS  
OF EROSION BALES

State of Wisconsin  
Department of Transportation  
Division of Highways

RECOMMENDED FOR APPROVAL  
10/14/75  
DATE  
J.C. Hennrich  
CHIEF OF FACILITIES DEVELOPMENT

APPROVED  
10/16/75  
DATE  
H.J. Sadler  
STATE HIGHWAY ENGINEER

S.D.D. 8E8-1



**GENERAL NOTES**

Details of construction, materials and workmanship not shown on this drawing shall conform to the pertinent requirements of the Standard Specifications and the applicable Special Provisions. Variations of the dimensions and designs shown hereon will be permitted providing equivalent capacity and structural integrity are attained, and prior approval of the Engineer is obtained. Concrete culvert endwalls may not be used with galvanized steel or aluminum culvert pipe or vice versa. Galvanized steel or aluminum endwalls shall normally be installed on culvert pipe of the same metal. The use of galvanized steel endwalls on aluminum pipes is permitted, provided the two metals at the joint interface are kept separated by a suitable insulating material approximately 1/16 inch thick or greater. Such material would be an asphalt impregnated fabric, a sheet plastic, a rubber gasket or other non-degradable material of substantial strength.

When two or more pipe arches with apron endwalls are to be laid adjacent to each other, they shall be separated by the following amount:  
 PIPES: Total width of apron endwall less the diameter of pipe plus 6 inches.  
 PIPE ARCHES: Total width of apron endwall less the span dimension of the pipe arch plus 6 inches.

① A combination of steel rod rolled into edge sidewall (L1), and 180° roll on edge of sidewall (L2), is permitted for metal apron endwalls up to 60 inch diameter for circular pipe, and 77 inch x 52 inch for pipe arches.

**CONNECTION DETAILS**

**CIRCULAR PIPE**  
 For circumferentially corrugated pipe use Endwall Connection Details 1, 2, 3 or 5 as applicable.  
 For helically corrugated pipe use Endwall Connection Details 1, 2 or 5.  
 For helically corrugated pipes with two circumferential corrugations at each end use Endwall Connection Details 1, 2 or 3.

**PIPE ARCH**  
 Use Endwall Connection Details 2, 3 or 5 as applicable.

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

PIPE DIA. (In.)	MIN. THICKNESS (Inches)		DIMENSIONS (Inches)							APPROX. SLOPE
	STEEL	ALUM.	A	B	H	L	L1	L2	W	
12	0.064	0.060	6	6	6	21	12	17 1/2	24	2 1/2 to 1
15			7	8		26	14	21 3/4	30	
18			8	10		31	15	28 1/4	36	
21		0.060	9	12		36	18	29 5/8	42	
24	0.064	0.075	10	13	6	41	18	37 1/4	48	
30	0.079	0.075	12	16	8	51	18	52 1/4	60	
36	0.079	0.105	14	19	9	60	24	59 3/4	72	
42	0.109	0.105	16	22	11	69	24	76 5/8	84	2 1/2 to 1
48		0.135	18	27	12	78	24	81	90	2 1/4 to 1
54		0.135	30		84	30	85 1/2	102	2 to 1	
60		0.164	33		87		114	1 3/4 to 1		
66			36		87		120	1 1/2 to 1		
72			39		87		126	1 1/3 to 1		
78			42		87		132	1 1/4 to 1		
84	0.109	0.164	18	45	12	87		138	1 1/4 to 1	

PIPE-ARCH DIMENSIONS (Inches)	MIN. THICK. (Inches)	DIMENSIONS (Inches)							APPROX. SLOPE		
		SPAN	RISE	STEEL	ALUM.	A	B	H		L	L1
17	13	0.064	0.060	7	9	6	19	14	16	30	2 1/2 to 1
21	15		0.060	7	10		23	14	19 3/8	36	
24	18		0.060	8	12		28	18	21 3/4	42	
28	20	0.064	0.075	9	14		32	18	27 1/2	48	
35	24	0.079	0.075	10	16	6	39	18	37 5/8	60	
42	29	0.079	0.105	12	18	8	46	24	45 3/8	75	
49	33	0.109	0.105	13	21	9	53		54 3/4	85	
57	38		0.135	18	26	12	63		68	90	2 1/2 to 1
64	43		0.135	30		70	24	72 3/4	102	2 1/4 to 1	
71	47		0.164	33		77	30	82 1/4	114	2 1/4 to 1	
77	52		0.164	36		77			126	2 to 1	
83	57	0.109	0.164	18	39	12	77			138	2 to 1

NOTE: All splices to be lap riveted or bolted.

NOTE: All splices to be lap riveted or bolted.

S.D.D. 8 F 1-9

**REINFORCED CONCRETE APRON ENDWALLS**

**METAL APRON ENDWALLS FOR CIRCULAR PIPE**

**METAL APRON ENDWALLS FOR PIPE ARCHES**

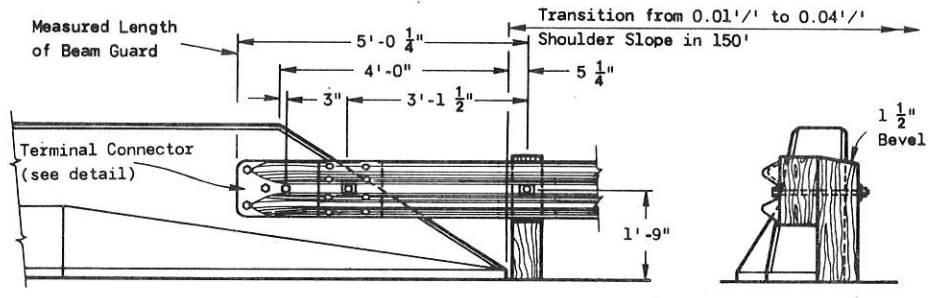
**APRON ENDWALLS FOR CULVERT PIPE AND PIPE ARCHES**

State of Wisconsin  
Department of Transportation

APPROVED  
2-15-82  
DATE

*D. J. Alford*  
CHIEF DESIGN ENGINEER

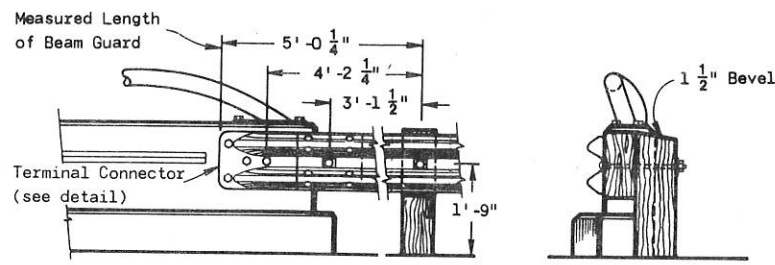
FHWA



FRONT VIEW

END VIEW

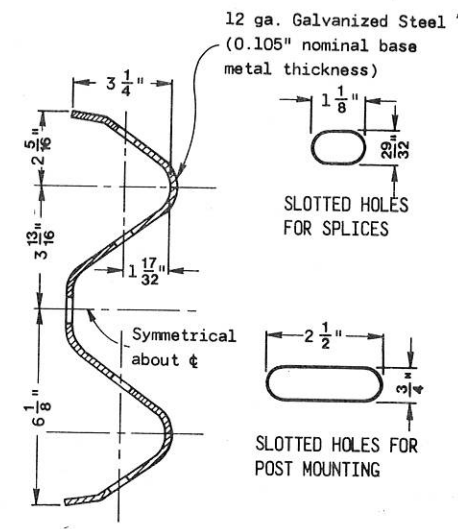
SLOPED FACE PARAPET



FRONT VIEW

END VIEW

VERTICAL FACE PARAPET



SECTION THRU RAIL ELEMENT

**GENERAL NOTES**

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

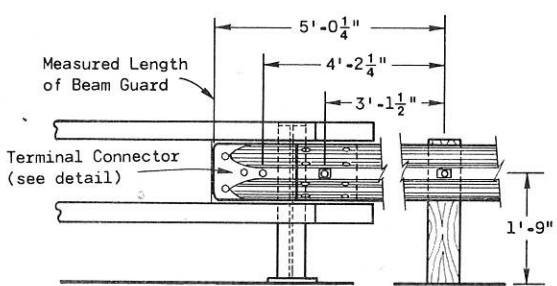
The type of anchorage and the exact location of the beginning and end of each beam guard installation shall be as shown on the plans or as directed by the Engineer.

Shoulder widening to accommodate the anchored end of the beam guard shall be accomplished at a rate of widening not to exceed 5 to 1.

Standard Anchorages - Upon approval of the Engineer, the 6 foot offset may be reduced to nothing where existing conditions will not permit the desirable offset. However, when no offset greater than or equal to 3 feet can be provided, the minimum length of guardrail in advance of an obstacle (obstacle to anchor) shall be 150 feet.

The "Post Footing Details at Piers" shall be used when beam guard posts are over structure footings and less than 3 feet - 6 inches of earth is provided over the top of the footing.

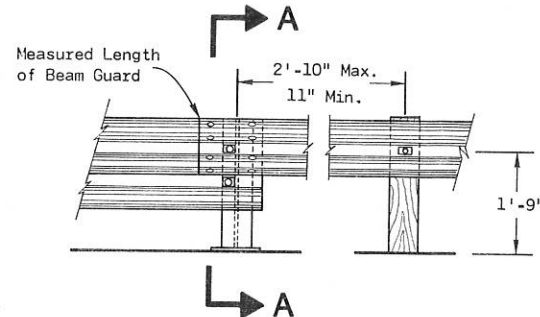
- ① The minimum clearance from the front face of beam guard to obstacle shall be 4 feet unless otherwise shown on contract plans. When clearance is less than 4 feet, post spacing shall be reduced to 3 feet - 1 1/2" C-C.
- ② This section shall include at least one 12'-6" Rail Element and a Terminal Connector when required for structure mounting.



FRONT VIEW

END VIEW

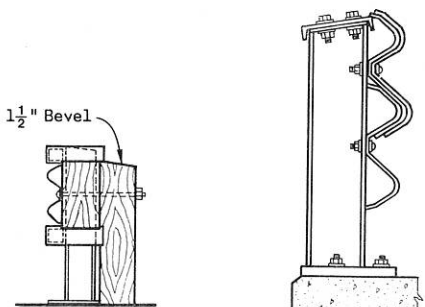
RAILING TYPE "F"



FRONT VIEW

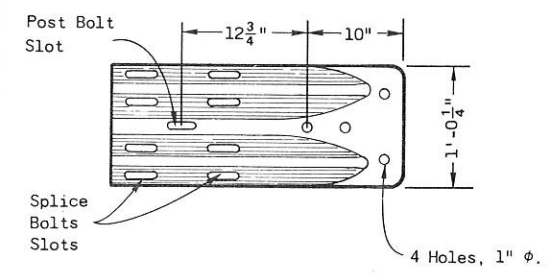
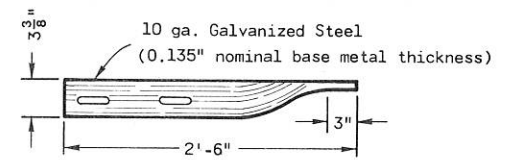
SECTION A-A

RAILING TYPE "W"

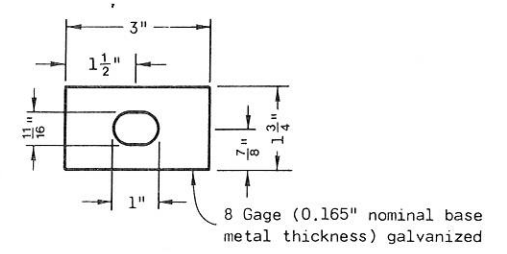


END VIEW

**STRUCTURE MOUNTING DETAILS**

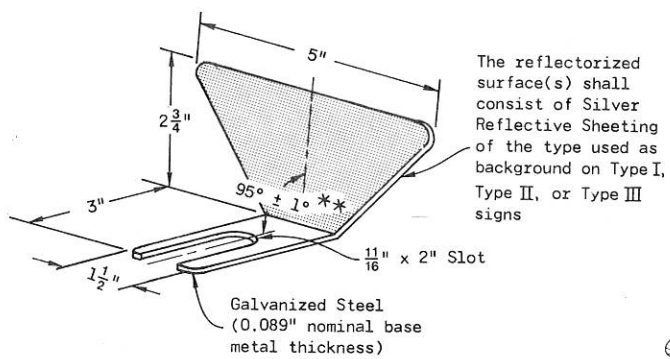


**TERMINAL CONNECTOR**



RECTANGULAR PLATE WASHER

(Shall be omitted at selected locations when Type 1 Anchorages are used. See TANGENT OFFSETS, Sheet 5c)



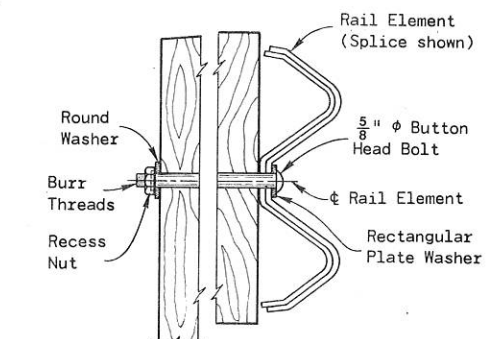
**REFLECTOR SPACING**

	Beam Guard Length	Reflector Spacing	No. Surfaces Reflectorized	Min. No. Reflectors
One Way Traffic	< 200'	50' C-C	1	3
Two Way Traffic	< 200' *	25' C-C	1 *	6
Two Way Traffic	> 200'	50' C-C	1 *	3
Two Way Traffic	< 200'	50' C-C	2 **	3
Two Way Traffic	> 200'	100' C-C	2 **	3

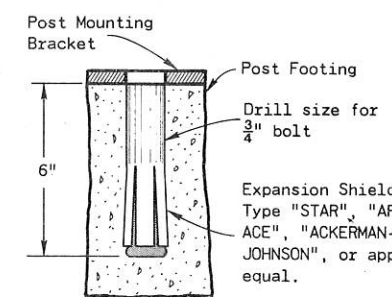
\* Every other reflector reversed for 2-way visibility. Contractor may furnish two-sided reflectors in lieu of one-sided reflectors.

\*\* Angle of bend to be 90° ± 1° for two-sided reflectors.

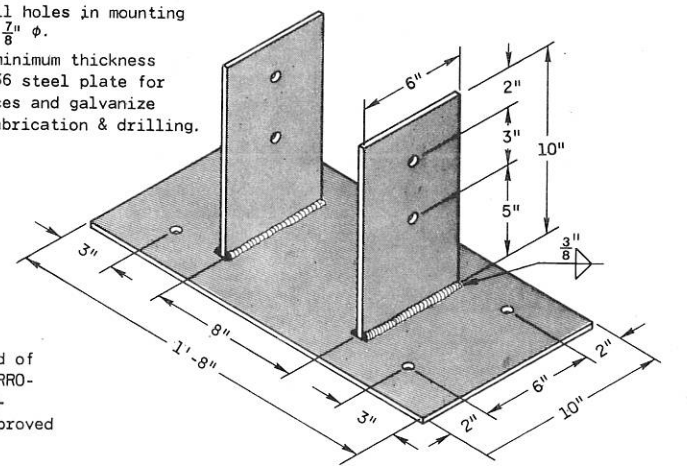
REFLECTOR DETAIL



BUTTON HEAD BOLT DETAIL

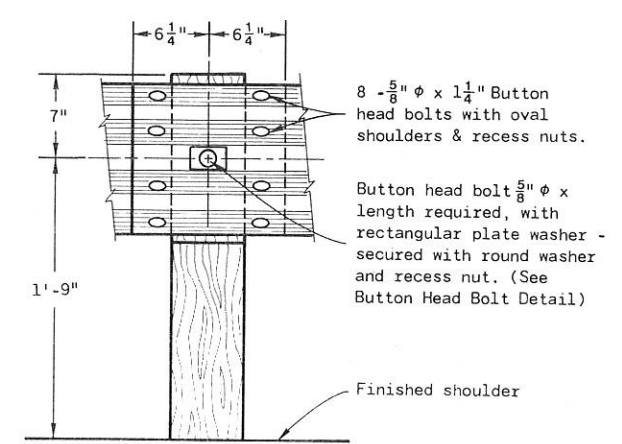


EXPANSION SHIELD DETAIL

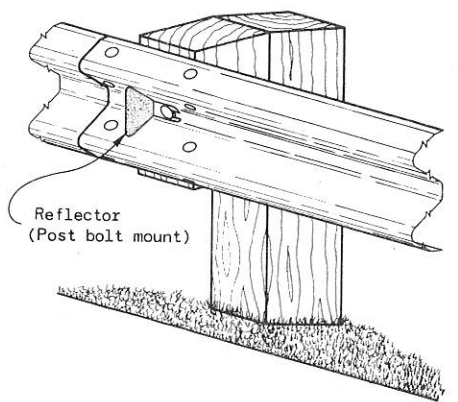


POST MOUNTING BRACKET

**POST FOOTING DETAIL AT PIERS**



RAIL ELEMENT SPLICING AND POST MOUNTING DETAIL



TYPICAL INSTALLATION

NOTE: THIS STANDARD DETAIL DRAWING HAS THREE SHEETS. SHEET 5c IS REQUIRED ONLY WHEN TYPE 1 OR TYPE 2 ANCHORAGES ARE SPECIFIED.

**CLASS "A"**  
**STEEL PLATE BEAM GUARD**

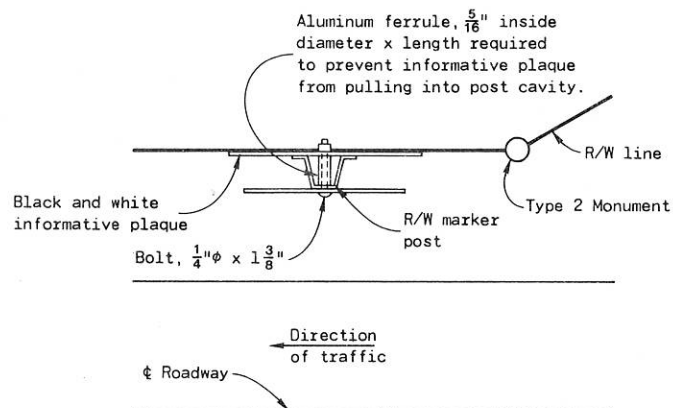
State of Wisconsin  
Department of Transportation

APPROVED  
11-13-81  
DATE

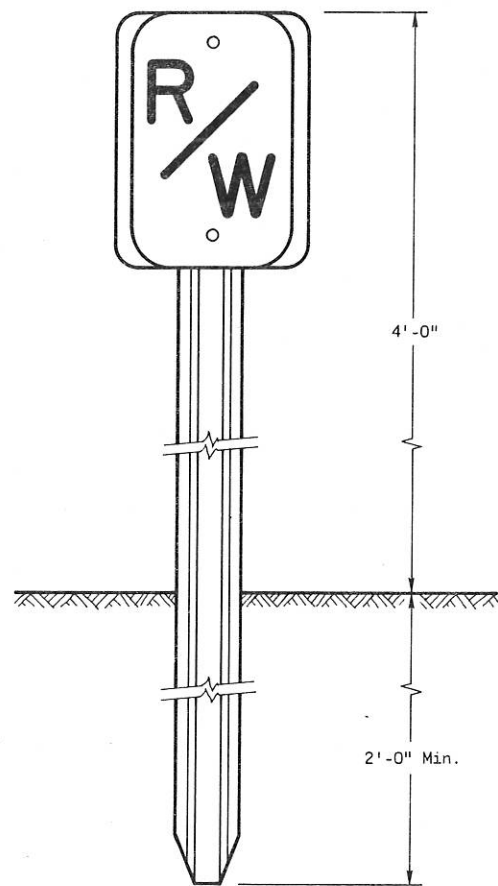
*D. J. Strand*  
CHIEF DESIGN ENGINEER

FHWA

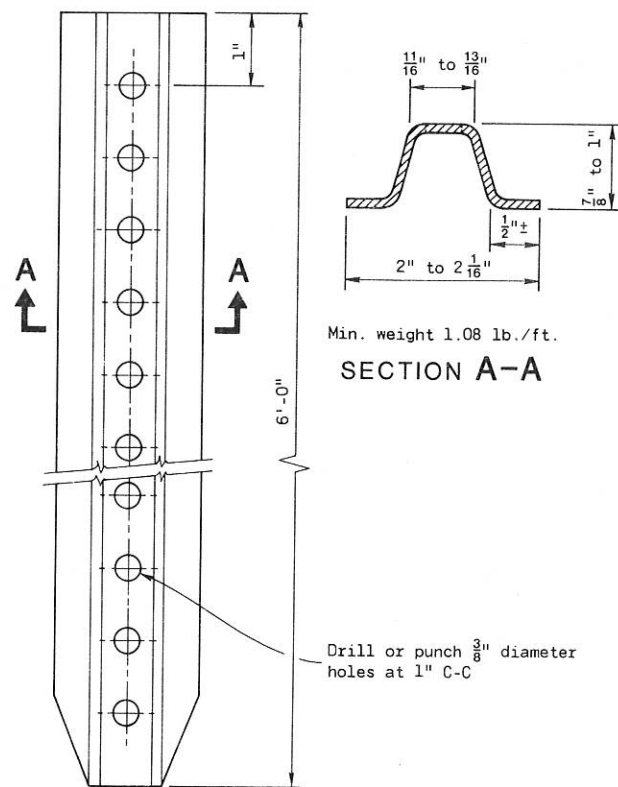
S.D.D. 14 B 2-5a



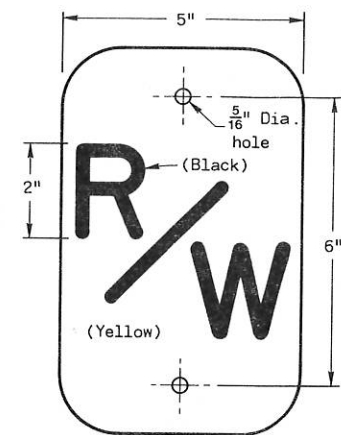
PLAN VIEW



FRONT VIEW  
STEEL MARKER POST

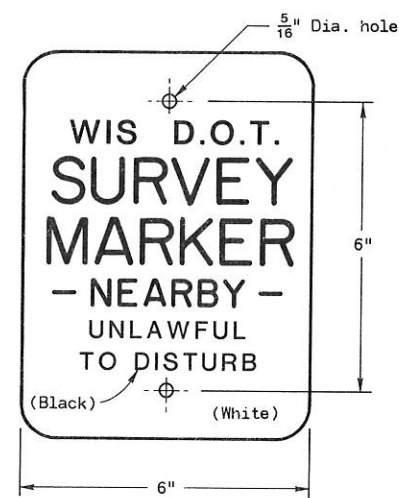


FRONT VIEW  
STEEL MARKER POST

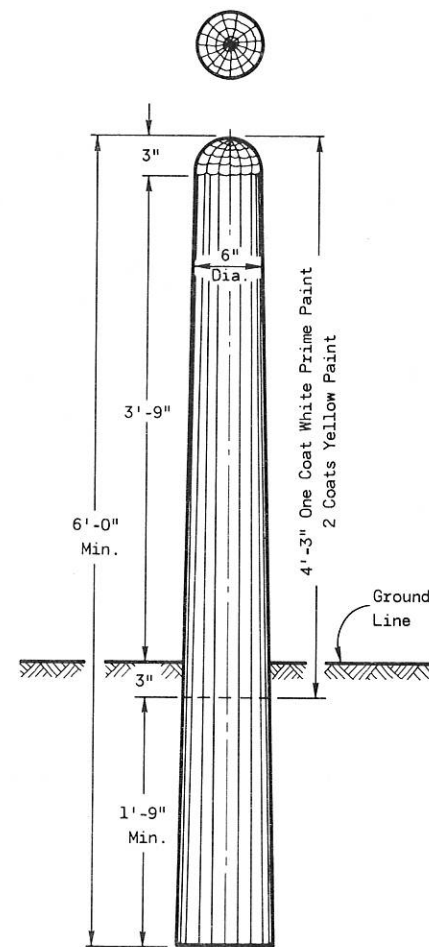


RIGHT OF WAY MARKER

The right of way marker and informative plaque, when required, will be furnished by either the Wisconsin Department of Transportation or the Local Government.



INFORMATIVE PLAQUE



ELEVATION  
WOOD MARKER POST

**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.

The contractor may install either Steel or Wood Marker Posts unless otherwise specified in the contract. Only one type of post shall be used throughout the project.

Right Of Way Marker or Informative Plaque is not required on Wood Marker Posts.

A Marker Post For Right Of Way shall be placed adjacent to each Type 2 Monument to serve as a guard post, and at other locations as shown on the plans or as directed by the Engineer.

Steel Posts shall be made from high strength hot rolled steel conforming to ASTM designation A 499 or equal.

Steel Posts shall be coated with a Federal Highway yellow enamel.

S.D.D. 15 A 1-4

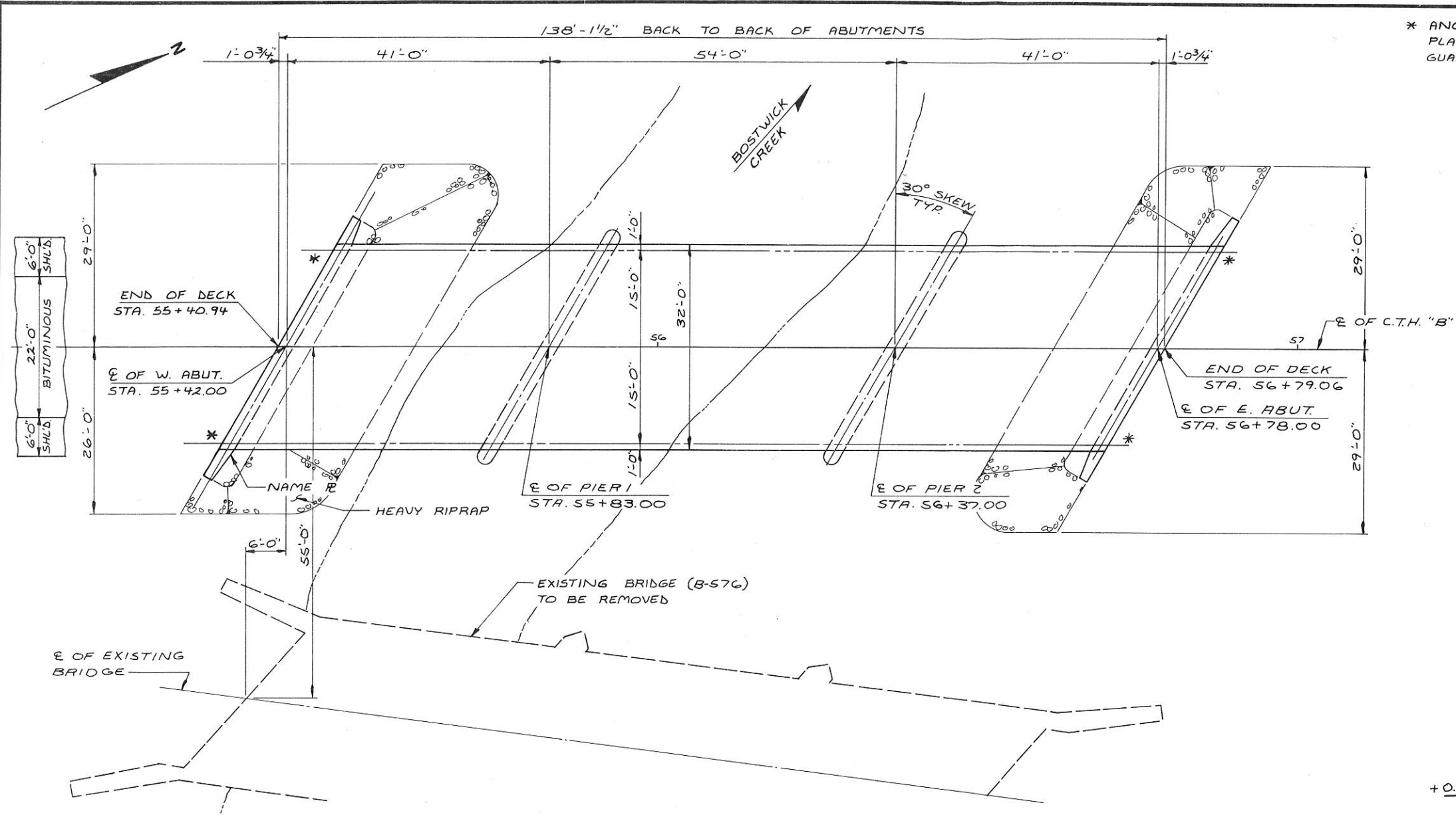
MARKER POSTS FOR RIGHT OF WAY	
State of Wisconsin Department of Transportation	
APPROVED 4-15-82 DATE	<i>D. J. Strand</i> CHIEF DESIGN ENGINEER
FHWA	

S.D.D. 15 A 1-4

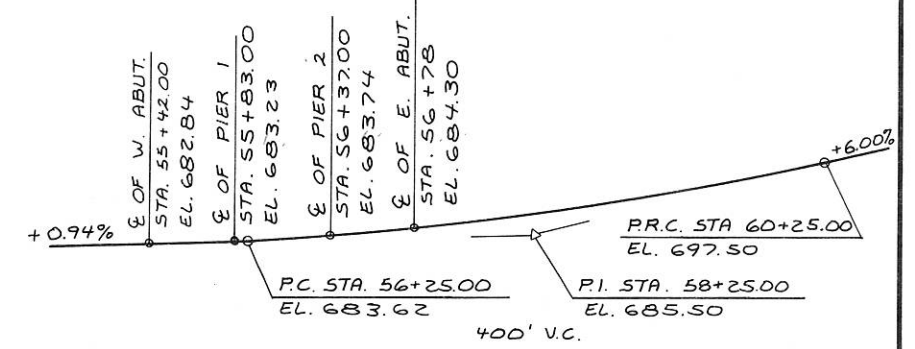
\* ANCHOR ASSEMBLY FOR PLATE BEAM TYPE GUARDRAIL.

**LIST OF DRAWINGS**

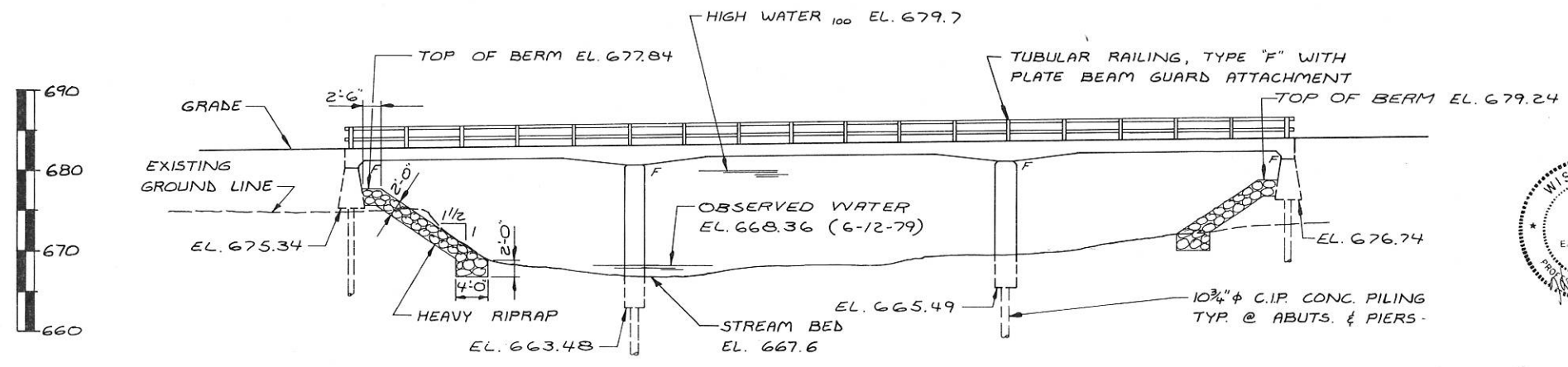
- 1. GENERAL PLAN \_\_\_\_\_ X 66018
- 2. QUANTITIES & NOTES \_\_\_\_\_ X 66019
- 3. SUBSURFACE EXPLORATION \_\_\_\_\_ X 66020
- 4. WEST ABUTMENT \_\_\_\_\_ X 66021
- 5. EAST ABUTMENT \_\_\_\_\_ X 66022
- 6. PIER 1 \_\_\_\_\_ X 66023
- 7. PIER 2 \_\_\_\_\_ X 66024
- 8. SUPERSTRUCTURE, TYPE "F" \_\_\_\_\_ X 66025
- 9. TUBULAR RAILING, TYPE "F" \_\_\_\_\_ X 66026



**PLAN**

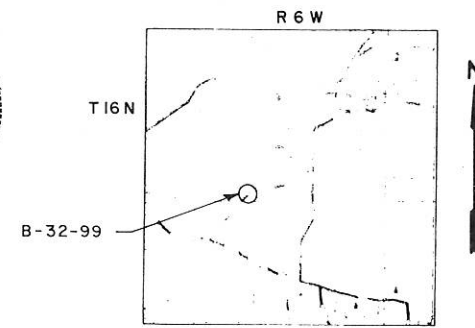


**PROFILE GRADE LINE - C.T.H. "B"**



**ELEVATION**

(TAKEN NORMAL TO CREEK)



**LAYOUT**

No.	Date	Revision	By
PLANS PREPARED BY <b>OWEN AYRES &amp; ASSOCIATES</b> ARCHITECTS - ENGINEERS EAU CLAIRE, WISCONSIN			
STATE OF WISCONSIN DEPARTMENT OF TRANSPORTATION			
<b>STRUCTURE B-32-99</b>			
C.T.H. "B" OVER BOSTWICK CREEK			
County	LA CROSSE	Town	OF HAMILTON
Design Spec.	A. A. S.H.T.O. '77	Load	HS-20
Designed By	D.H.W.	Drawn By	M.T.M.-GLD.
Checked	D.H.P.	Checked	D.H.W.
Approved	Stanley W. Woods Chief Bridge Engineer		7-1-82 Date
<b>GENERAL PLAN</b>			SHEET 1 OF 9 <b>X66018</b>

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

MATERIAL SYMBOLS

Topsoil	Silt	Sandstone
Sand	Peat	Limestone
Gravel	Clay	Igneous Rock

LEGEND OF PROBING

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

Probing No.  
 Sta.  
 Elevation  
 7 Average Blows Per Foot  
 Refusal 95.6

LEGEND OF BORING

Unconfined Strength → 7.7  
 Blows Per Ft. Using 140# Wt. Falling 30"  
 Wash Sample  
 Shelby Tube — S. T.

Ground Water Elevation  
 No Ground Water Observed Above This Elevation

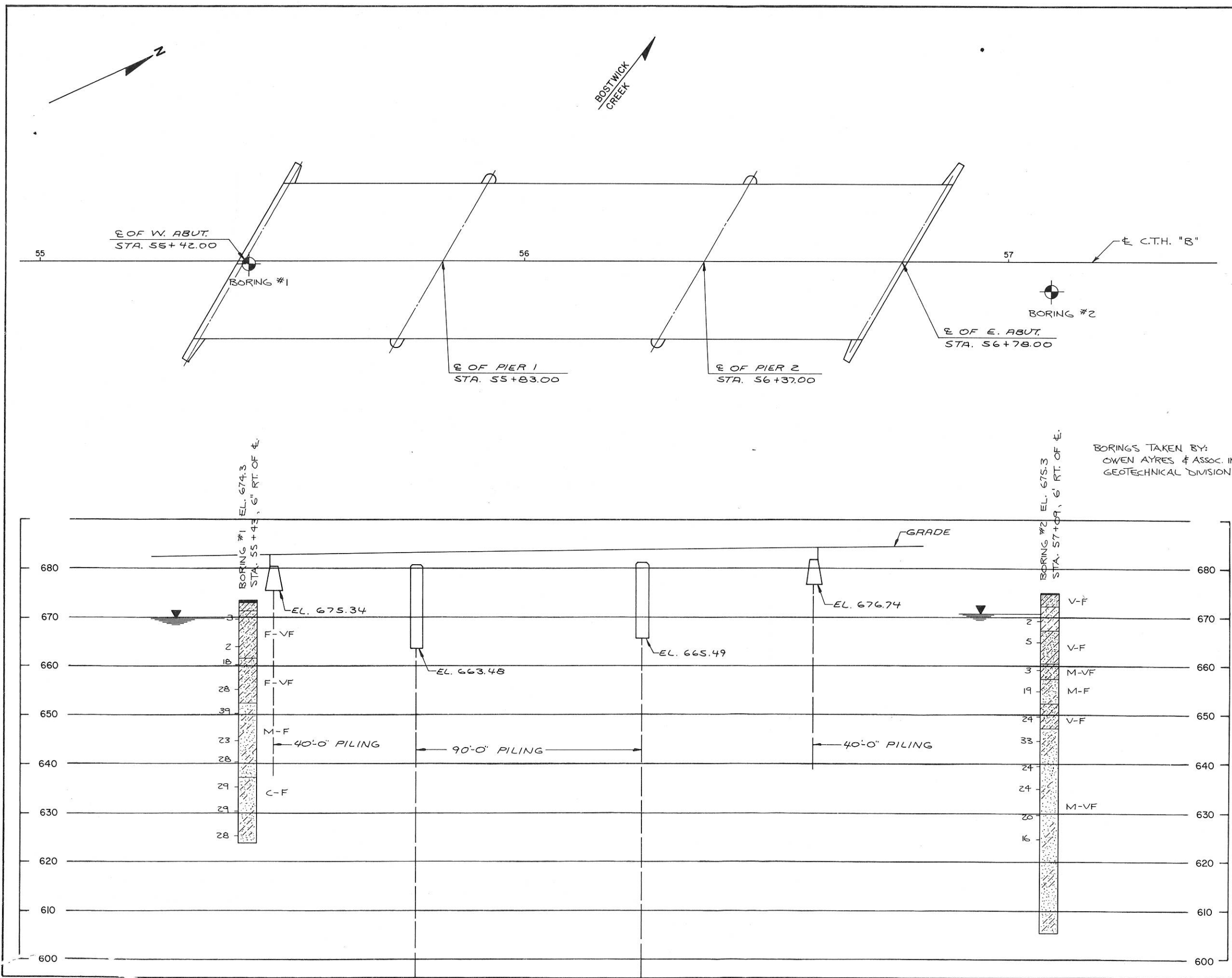
Sandy Gravel  
 F.  
 Boulders or Cobbles  
 Sand  
 Silty Clay  
 So  
 Limestone

Unless otherwise specified, the blows per foot at the locations indicated are based on driving a 2" O. D. x 1.4" I. D. split spoon sampler with a 140# hammer having a free fall of 30". The blow count is taken in undisturbed soil immediately below a cased or open hole eliminating side friction on the drive pipe.

SUBSURFACE EXPLORATION FOR FOUNDATION DESIGN AND BIDDERS INFORMATION

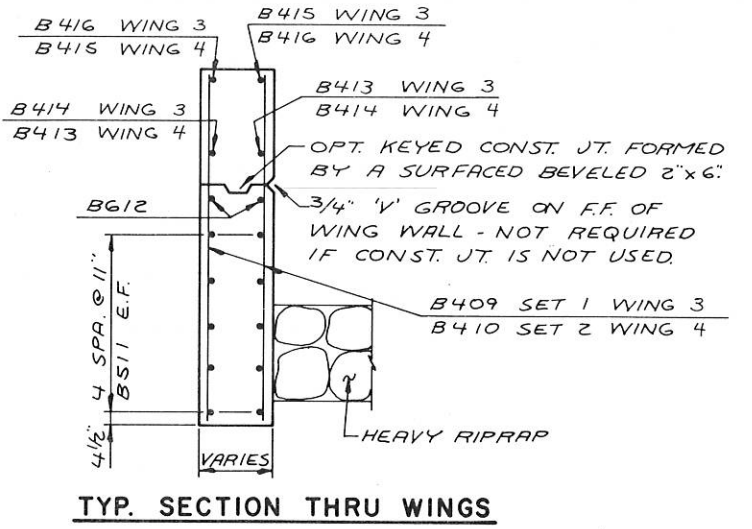
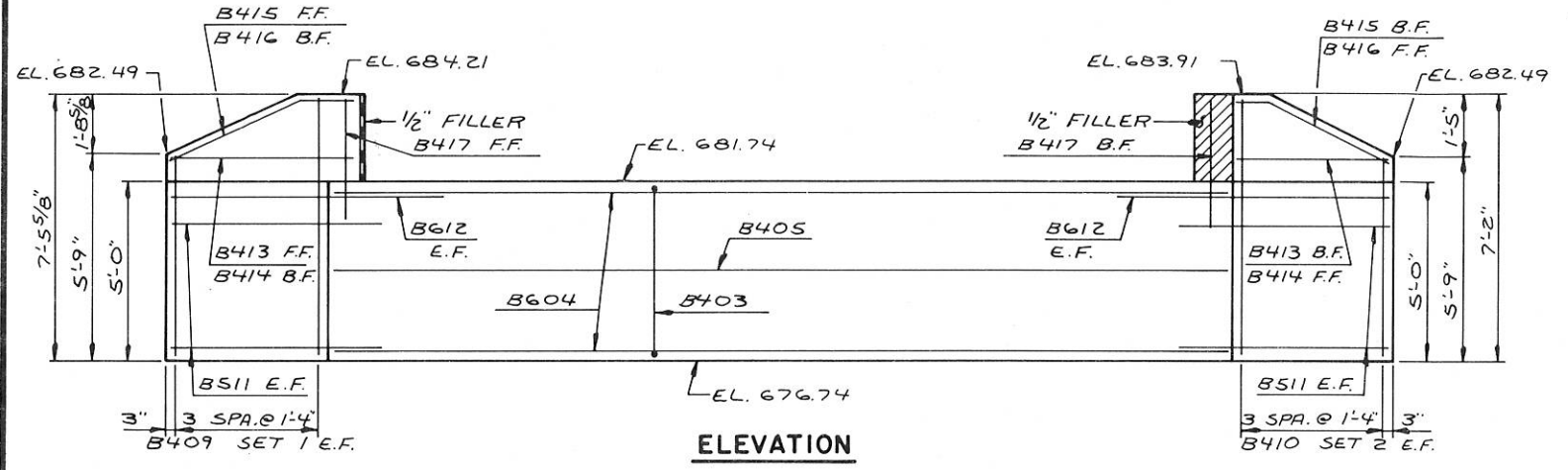
To obtain relative data concerning the character of material in and upon which the foundation might be built, borings and/or soundings were made at points approximately as indicated on this drawing. The data presented herein represents the findings of the subsurface explorations made. However, because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

No.	Date.	Revision	By
STATE OF WISCONSIN DEPARTMENT OF TRANSPORTATION DIVISION OF HIGHWAYS			
<b>STRUCTURE B-32-99</b>			
Const. Spec.	1981	Drawn By J.E.P. - G.L.D.	Plans Checked D.H.W.
<b>SUBSURFACE EXPLORATION</b>			SHEET 3 OF 9
<b>X66020</b>			



BORINGS TAKEN BY:  
 OWEN AYRES & ASSOC. INC.  
 GEOTECHNICAL DIVISION

NOTE: SEAL ALL EXPOSED HORIZONTAL AND VERTICAL SURFACES OF 1/2" FILLER WITH NON-STAINING GRAY NON-BITUMINOUS JOINT SEALER. (1" DEEP AND HOLD 1/8" BELOW SURFACE OF CONCRETE.)

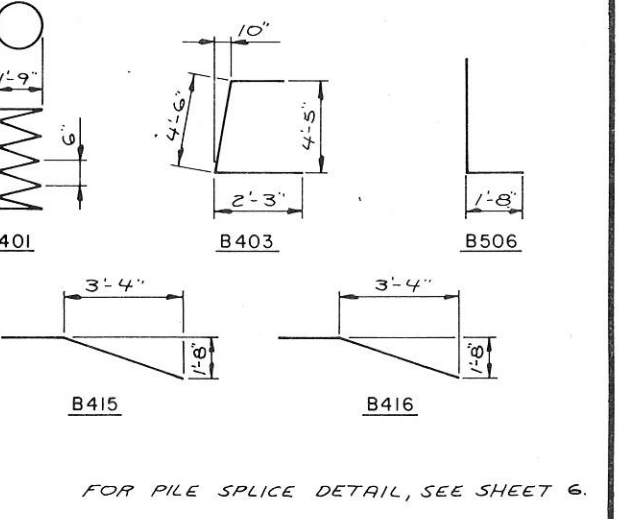
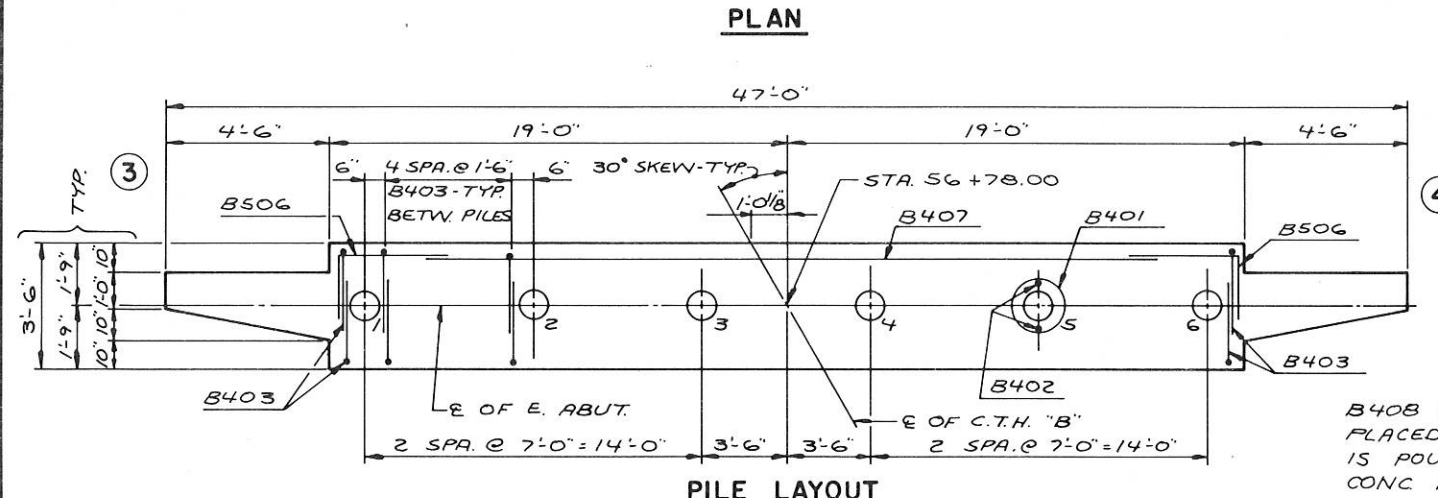
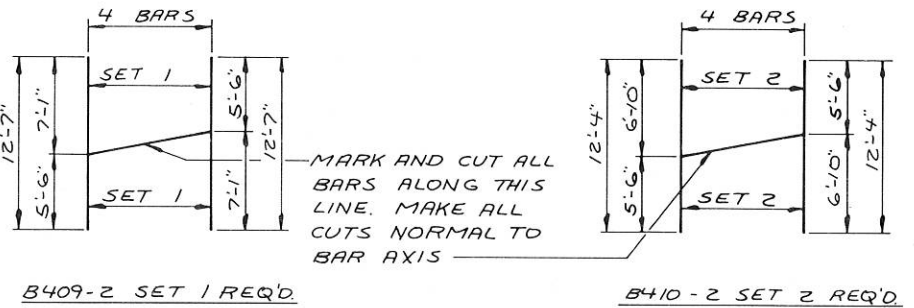
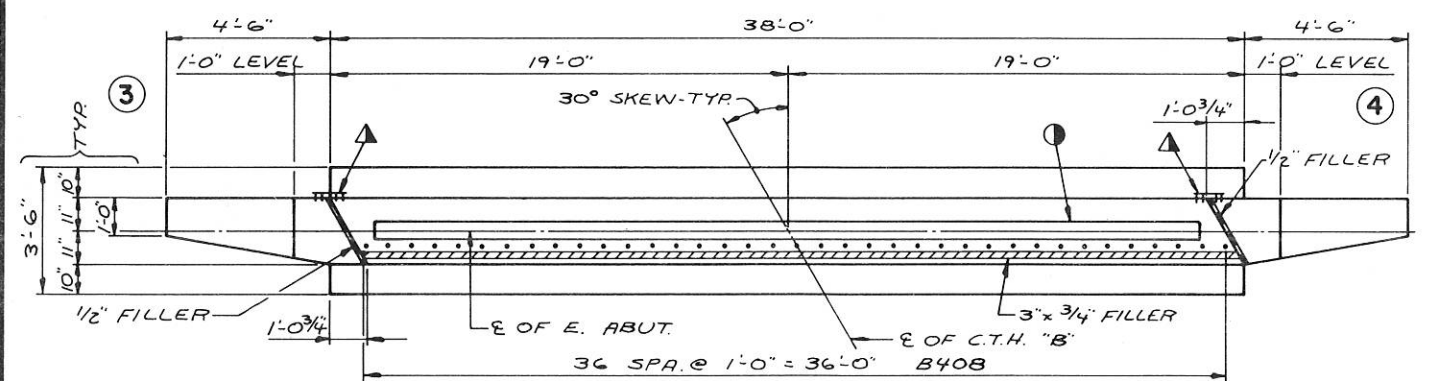


**BILL OF BARS**

1,330 #

LOCATION

BAR NO	NO. REQ'D	LENGTH	BENT	CUT. DIAG.	LOCATION
B401	6	28-0	X		BODY @ PILES
B402	12	2-3			" "
B403	54	8-1	X		" VERT.
B604	6	37-8			" HORIZ.
B405	3	37-8			" "
B506	10	6-1	X		" @ WINGS
B407	5	32-6			" "
B408	37	2-0			" DOWELS
B409	4	12-7	X		WING 3 VERT. E.F.
B410	4	12-4	X		" " " "
BS11	20	5-10			" 3x4 HORIZ. E.F.
B612	4	7-7			" 3x4 "
B413	2	4-11			" 3 HORIZ. FF, WING 4 HORIZ. BF.
B414	2	4-2			" 3 " BF, " 4 " FF
B415	2	5-3	X		" 3 DIAG. FF, " 4 DIAG. BF.
B416	2	4-6	X		" 3 " BF, " 4 " FF
B417	2	6-7			" 3 VERT. FF, " 4 VERT. BF.

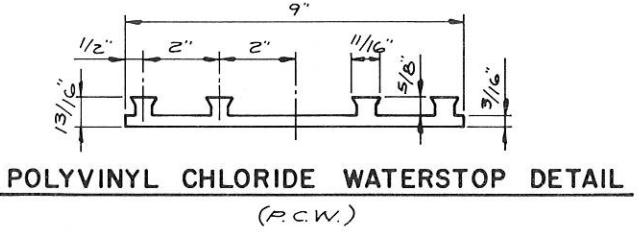
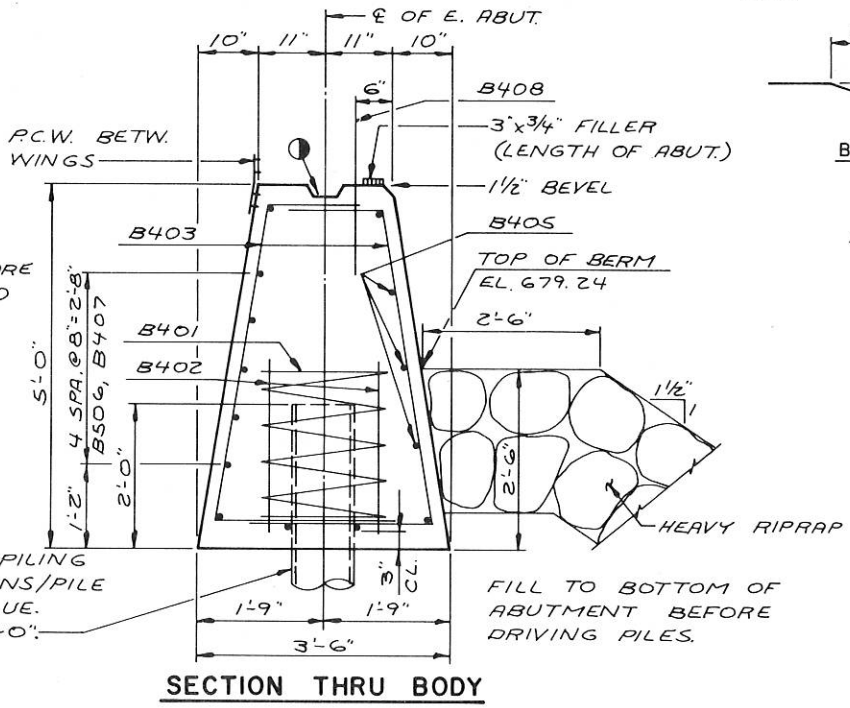


B408 BARS MAY BE PLACED AFTER ABUT. IS POURED BUT BEFORE CONC HAS SET. IMBED BAR 1'-0".

ALL HORIZ. BARS IN BODY ARE B604 UNLESS SHOWN OR NOTED OTHERWISE.

10 3/4" φ C.I.P. CONC. PILING DRIVEN TO 30 TONS/PILE MIN. BEARING VALUE. EST. LENGTH 40'-0".

- KEYED CONST. JT. FORMED BY A SURFACED BEVELED 2"x6".
- P.C.W. TO EXTEND FROM BRIDGE SEAT TO TOP OF WING. VULCANIZE OR EPOXY AT JUNCTION WITH HORIZ. P.C.W.

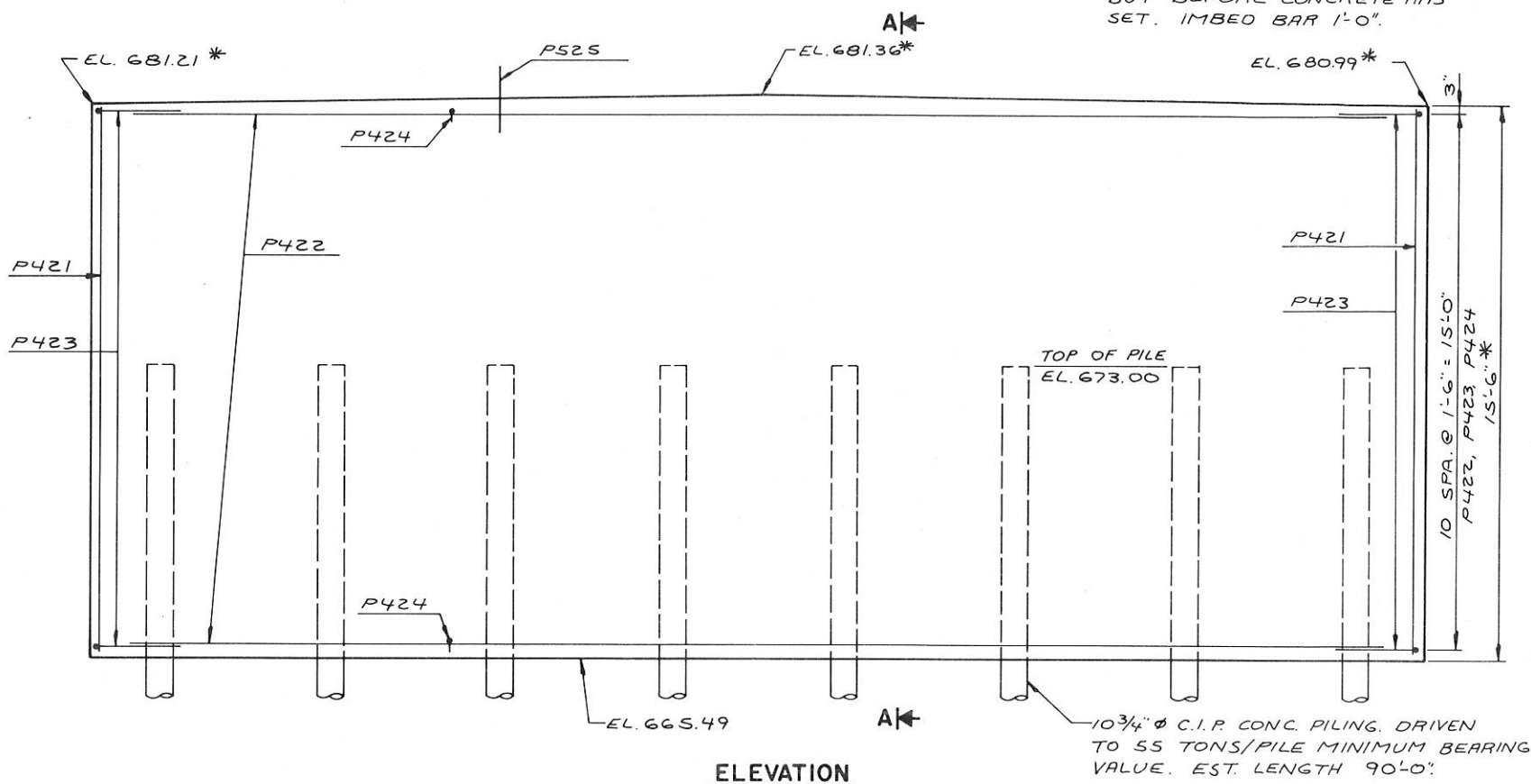


No.	Date	Revision	By
PLANS PREPARED BY <b>OWEN AYRES &amp; ASSOCIATES</b> CONSULTING ENGINEERS EAU CLAIRE, WISCONSIN			
STATE OF WISCONSIN DEPARTMENT OF TRANSPORTATION <b>STRUCTURE B-32-99</b>			
Const. Spec.	1981	Drawn By G.L.D.	Plans Checked D.H.W.
EAST ABUTMENT			SHEET 5 OF 9
X66022			

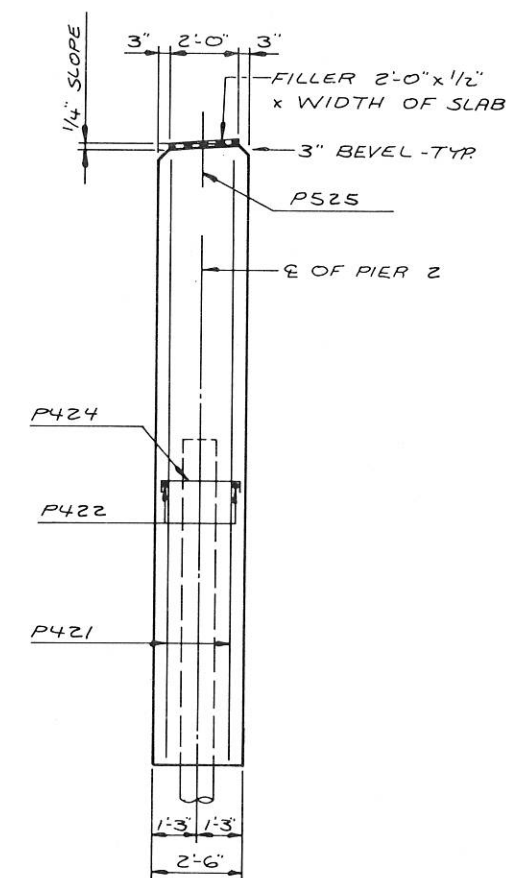
\* ELEVATIONS AND DIMENSIONS TAKEN ALONG E OF PIER

P525 BARS MAY BE PLACED AFTER COLUMN IS POURED BUT BEFORE CONCRETE HAS SET. IMBED BAR 1'-0".

STATE PROJECT NUMBER	SHEET NO.
5075-2-71	8.6



ELEVATION

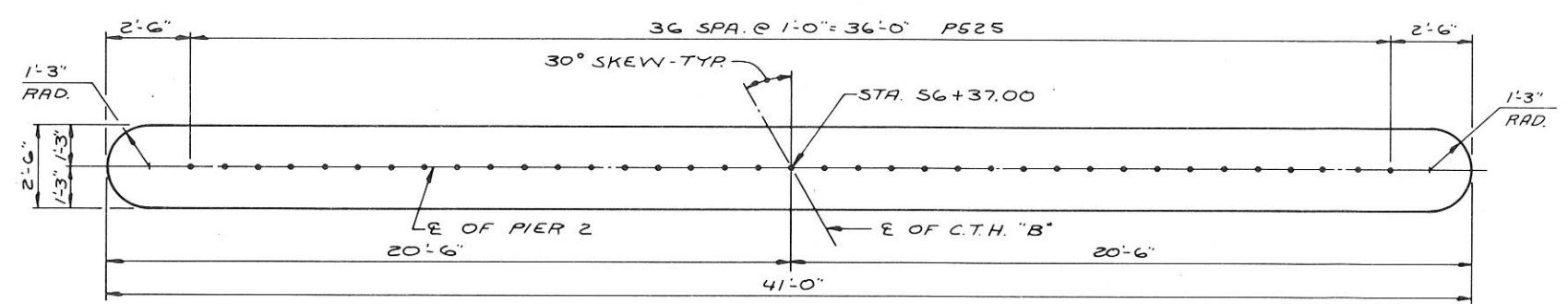
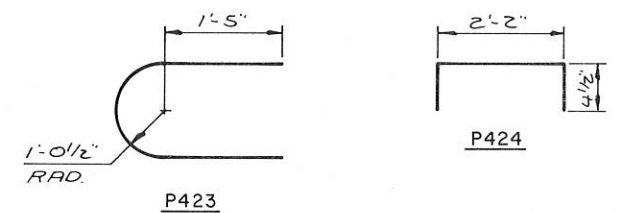


SECTION A

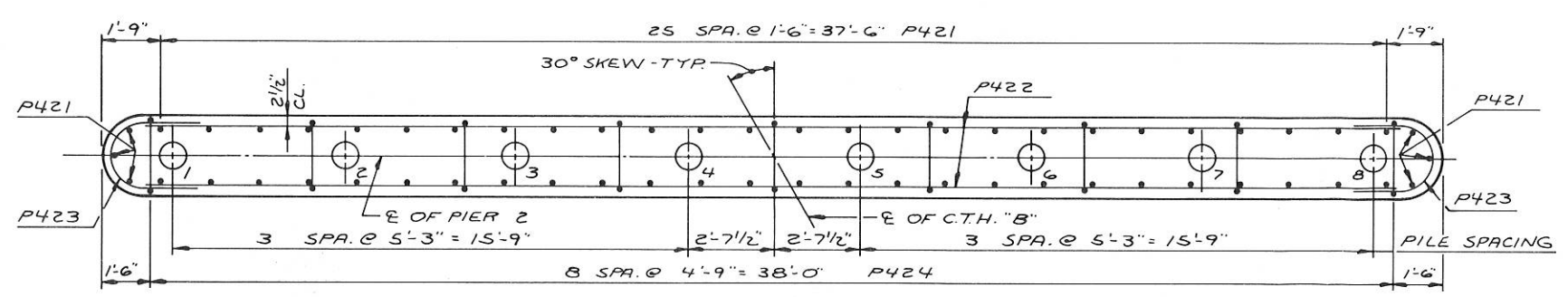
**BILL OF BARS**

BAR NO	NO. REQD.	LENGTH	BENT	LOCATION
				1,500 #
				COLUMN - VERT.
P421	58	15'-2"		" HORIZ.
P422	22	38'-6"		" "
P423	22	6'-1"	X	" TIES
P424	99	2'-9"	X	" DOWELS
P525	37	2'-0"		

BENDING DIMENSIONS ARE OUT TO OUT OF BARS.



PLAN

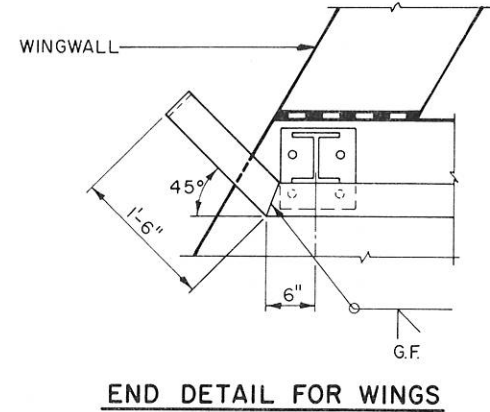


PILE LAYOUT

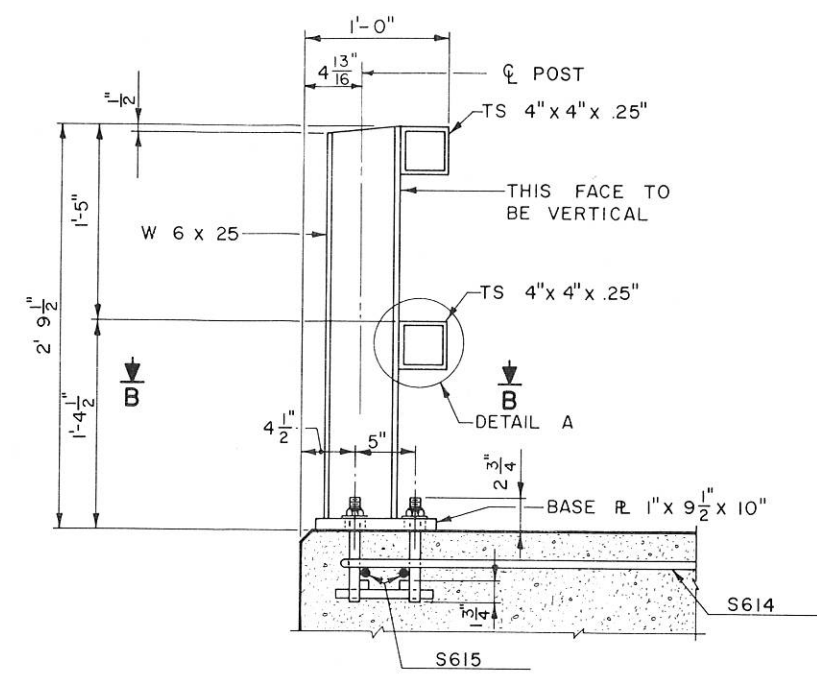
FOR PILE SPLICE DETAIL SEE SHEET G.

No.	Date	Revision	By
PLANS PREPARED BY <b>OWEN AYRES &amp; ASSOCIATES</b> CONSULTING ENGINEERS EAU CLAIRE, WISCONSIN			
STATE OF WISCONSIN DEPARTMENT OF TRANSPORTATION			
<b>STRUCTURE B-32-99</b>			
Const. Spec.	1981	Drawn By	G.L.D. Plans Checked D.H.W.
<b>PIER 2</b>			SHEET 7 OF 9 <b>X66024</b>



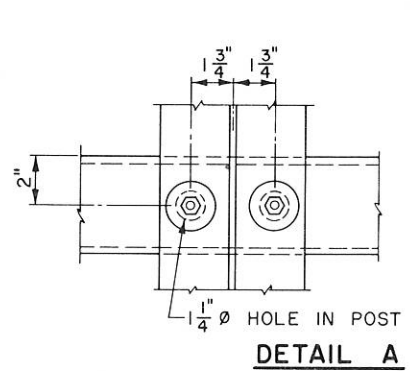


**END DETAIL FOR WINGS**

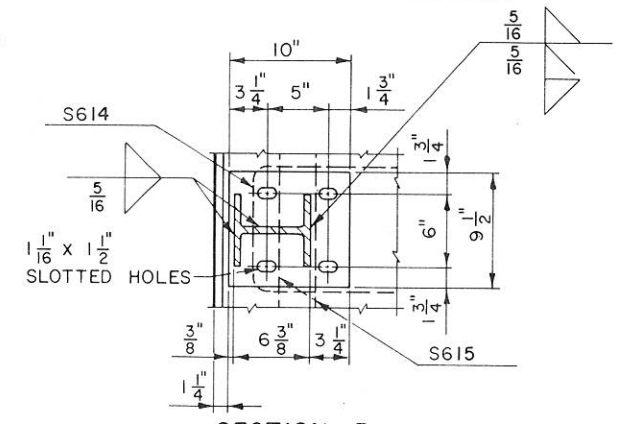


**SECTION THRU RAILING**

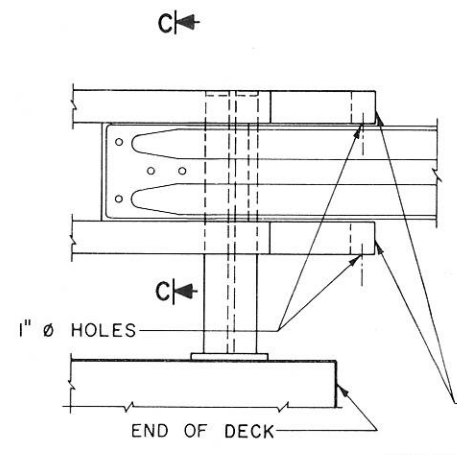
- GENERAL NOTES**
- BID ITEM SHALL BE "TUBULAR RAILING, TYPE F"
  - POST BASE PLATE SHALL BE FLAT WITH ALL SURFACES SMOOTH & FREE FROM WARP & ALL EDGES SMOOTH, STRAIGHT & VERTICAL. ALL PLATE CUTS SHALL BE MACHINE OR MACHINE FLAME CUTS.
  - RAILING SHALL BE 4" x 4" x .25" STRUCTURAL TUBING CONFORMING TO A.S.T.M. DESIGNATION A36.
  - ANCHOR BOLTS SHALL BE 7/8"  $\phi$  NOMINAL CONFORMING TO A.S.T.M. A449 WITH 3" THREAD AND HIGH STRENGTH NUTS AND WASHERS.
  - CAULK EXPOSED OPENINGS BETWEEN SHIMS.
  - POST, BASE PLATES & SHIMS SHALL BE MADE FROM MATERIAL CONFORMING TO A.S.T.M. DESIGNATION A36. CUT BOTTOM OF POST TO MATCH CROSS SLOPE OF ROADWAY. PLACE POST NORMAL TO GRADE LINE.
  - PLACE ANCHOR BOLTS NORMAL TO BASE PLATE.
  - ALL MEMBERS, INCLUDING UPPER 4" OF ANCHOR BOLTS, SHALL BE GALVANIZED AFTER FABRICATION.
  - BEAM GUARD ATTACHMENT MAY BE WELDED TO RAILS AND RAILS MAY BE WELDED TO POSTS.
  - FILL POST ANCHOR BOLT HOLES WITH NON-STAINING GRAY NON-BITUMINOUS JOINT SEALER.
  - STEEL SHIMS SHALL BE USED UNDER POSTS WHERE REQUIRED FOR ALIGNMENT.
  - RAILING SHALL BE FABRICATED IN 2 AND 3 PANEL LENGTHS.



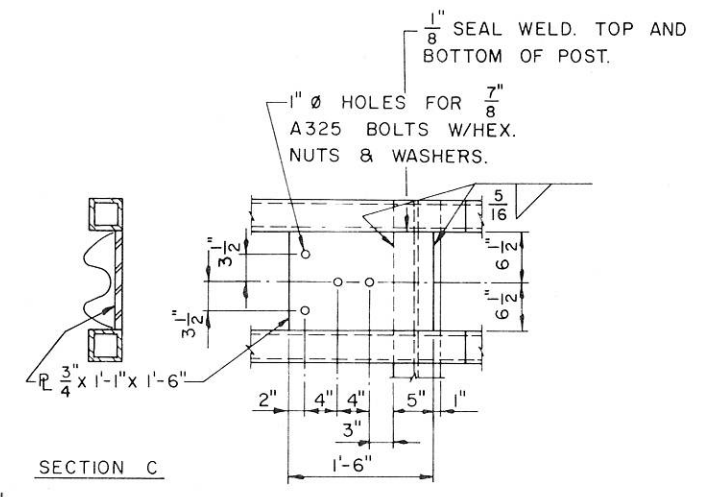
**DETAIL A**



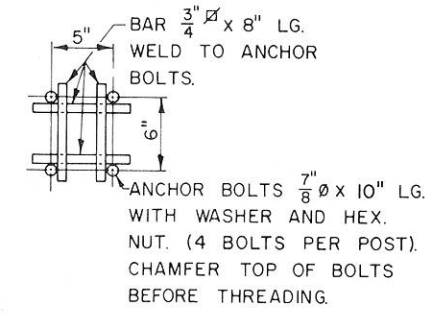
**SECTION B**



**DETAIL AT END POST  
(BEAM GUARD RAIL ATTACHMENT)**

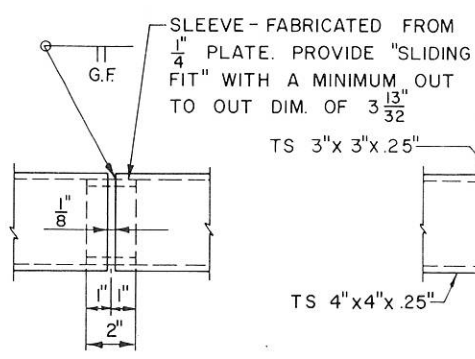


**SECTION C**

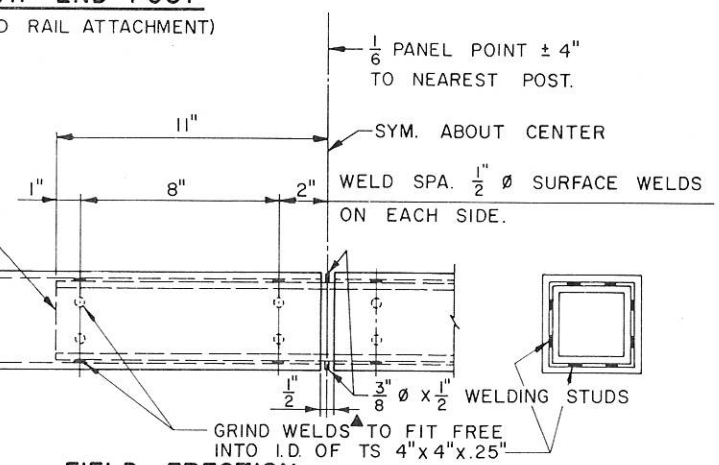


**ANCHOR BOLT DETAIL**

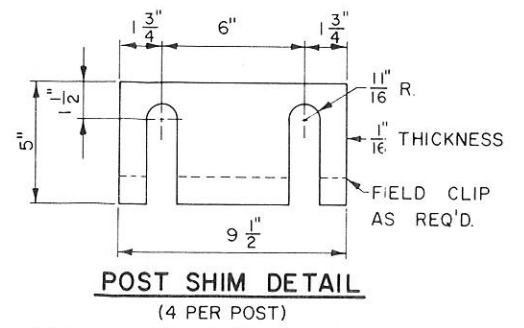
▲ MINIMUM 5/8" FLAT SURFACE DIAMETER PUNCHINGS OR STUDS MAY BE USED AS AN ALTERNATE.



**SHOP RAIL SPLICE DETAIL  
(LOCATION MUST BE SHOWN ON THE SHOP DRAWINGS)**



**FIELD ERECTION  
JOINT DETAIL**

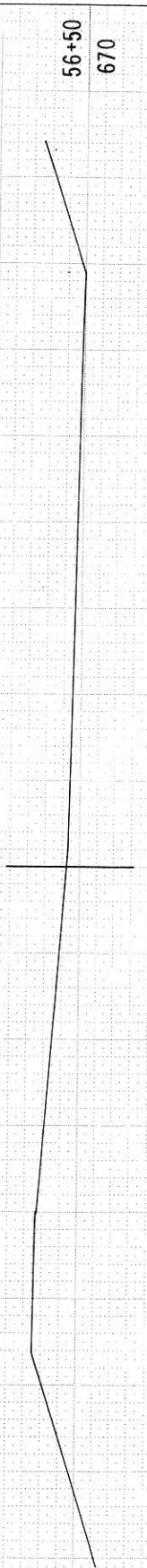
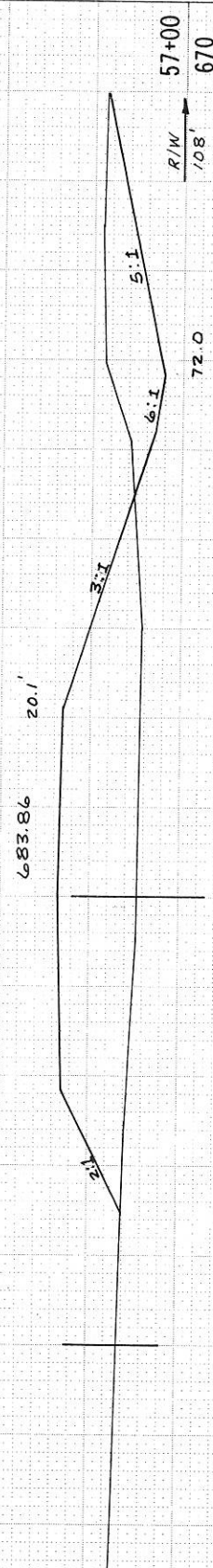
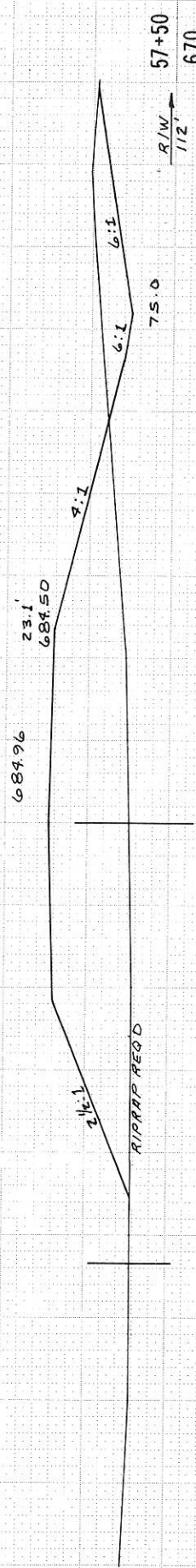
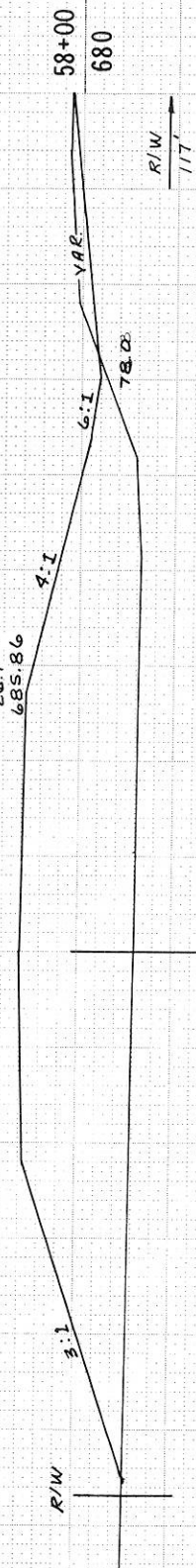


**POST SHIM DETAIL  
(4 PER POST)**

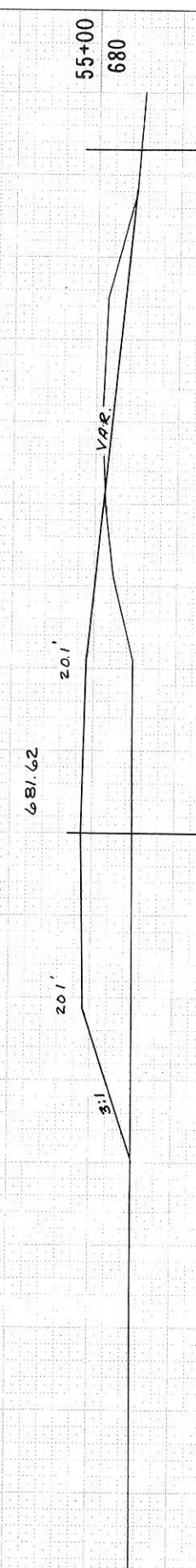
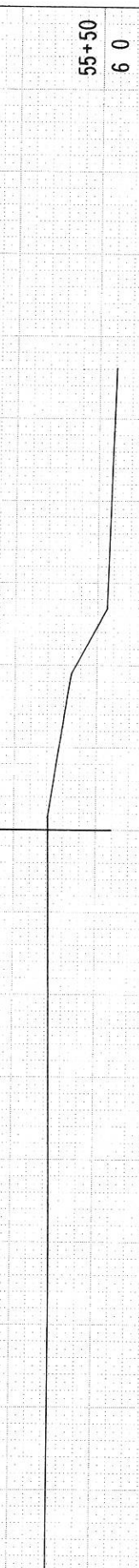
No.	Date	Revision	By
PLANS PREPARED BY <b>OWEN AYRES &amp; ASSOCIATES</b> ARCHITECTS ENGINEERS EAU CLAIRE, WISCONSIN			
STATE OF WISCONSIN DEPARTMENT OF TRANSPORTATION DIVISION OF HIGHWAYS			
<b>STRUCTURE B-32-99</b>			
Const. Spec.	1981	Drawn By	G.L.D.
		Plans Checked	D.H.W.
TUBULAR RAILING TYPE "F"			SHEET 9 OF 9
			X66026

WIDEN SUBGRADE FOR BEAMGUARD ET.

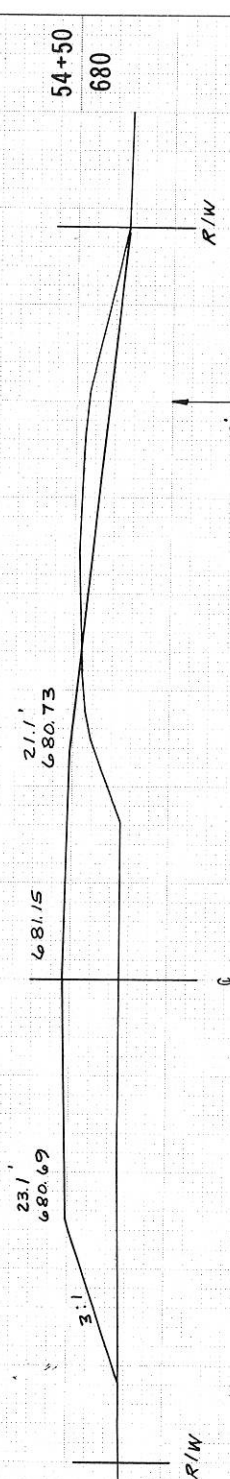
NOTE: EXTEND EXCAVATION TO INCLUDE OLD ROAD



STRUCTURE

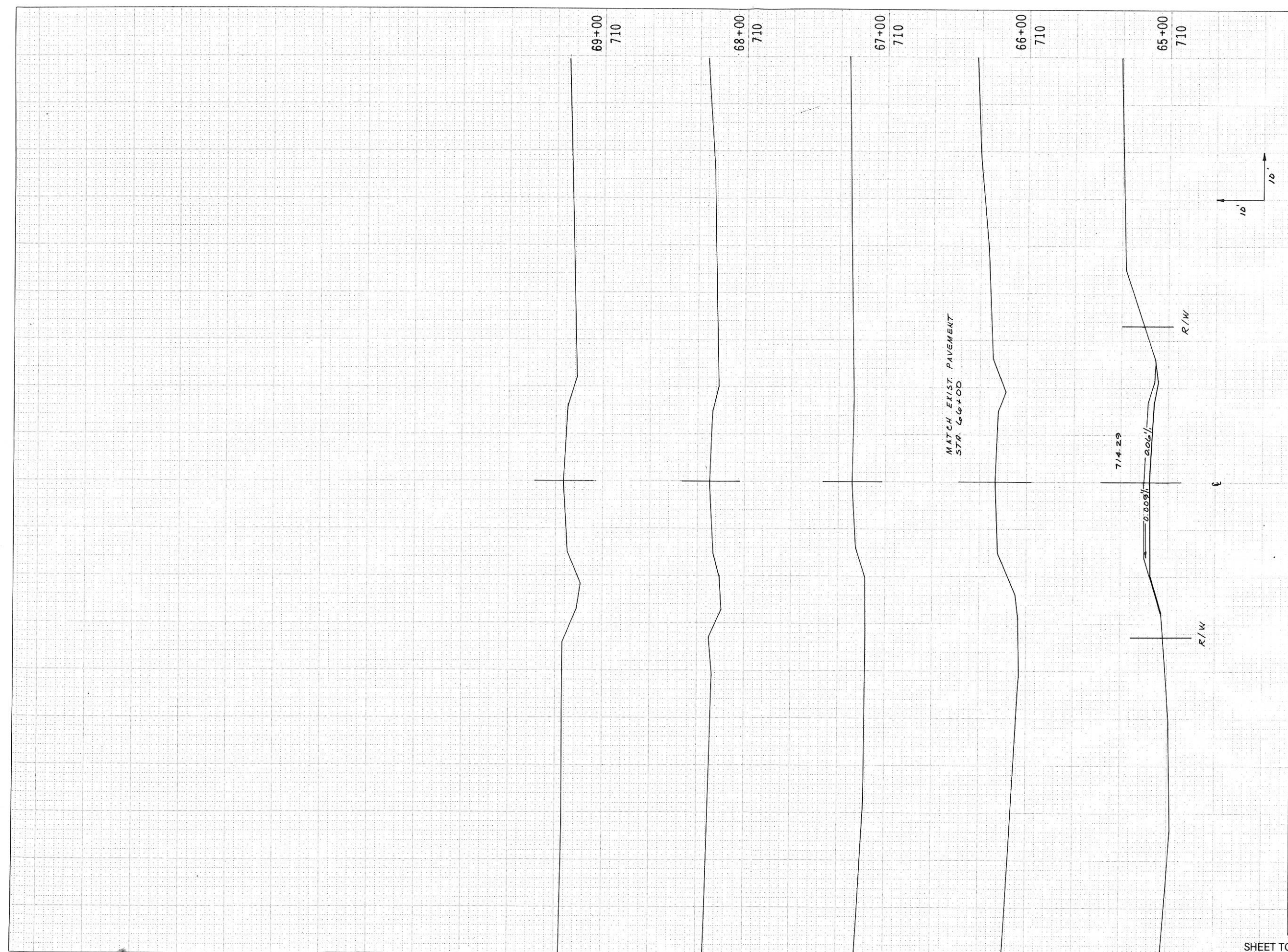


WIDEN SUBGRADE FOR BEAMGUARD LT. & RT.



SHEET TOTAL

STATE PROJECT NUMBER		SHEET NUMBER	
5075-2-71		9.1	
STATION	DISTANCE	YARDAGE	
		EXCAVATION	FILL
59 + 00	50	85	579
54 + 50	50	102	634
55 + 00	41	38	755
55 + 41			
STRUCTURE			
56 + 79	21	105	404
57 + 00	50	236	1083
57 + 50	50	120	1528
58 + 00			
SHEET TOTAL		686	4983



STATION	DISTANCE	YARDAGE	
		EXCAVATION	
		UNCL.	FILL
64+00	100	93	83
65+00	50	46	
65+50			
SHEET TOTAL		139	83