

SCHEDULE OF LANDS & INTERESTS REQUIRED

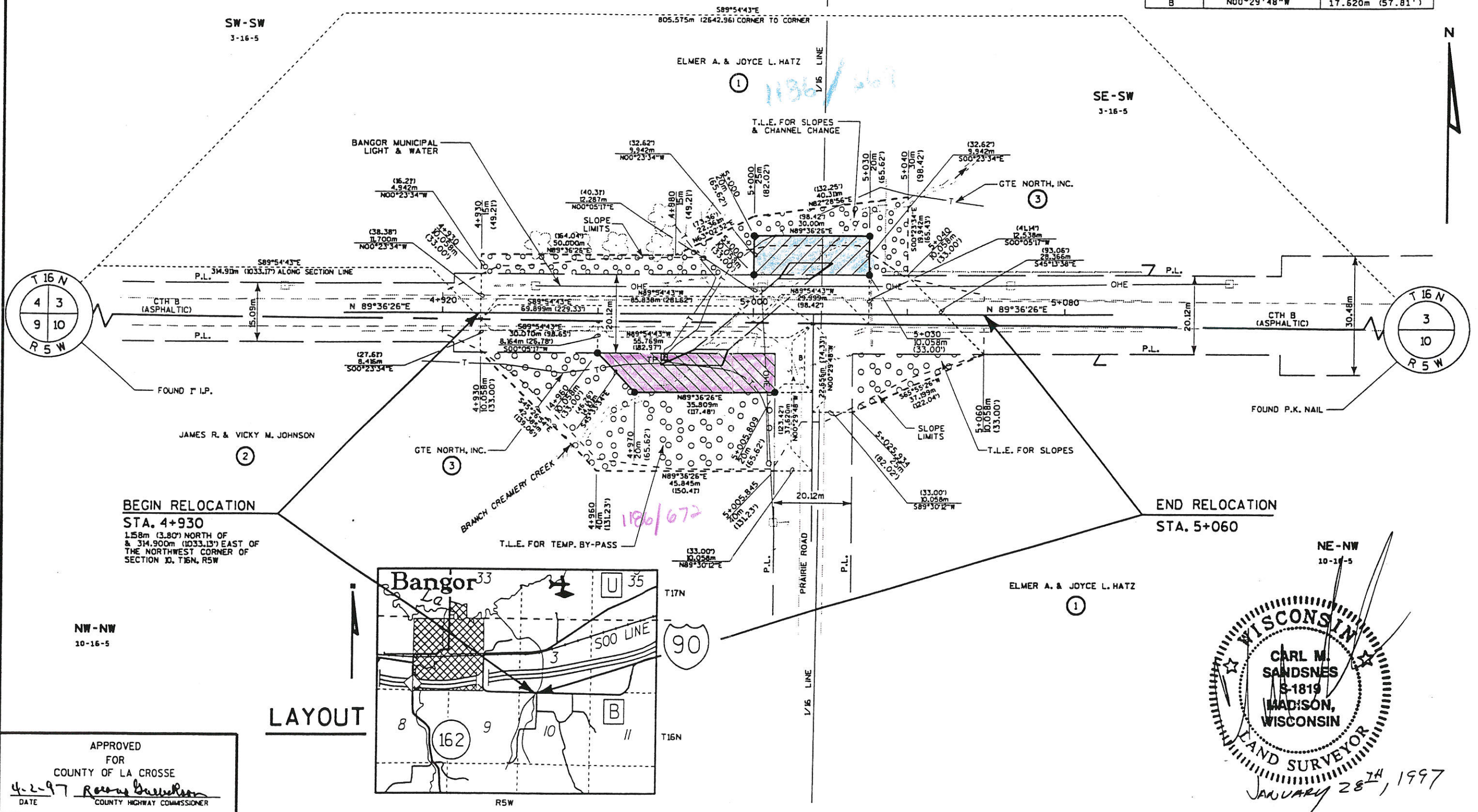
PARCEL NUMBER	OWNER	INTEREST REQUIRED	TOTAL AREA HECTARES (ACRES)	R/W AREA REQUIRED HECTARES (ACRES)			TOTAL AREA REM. HECTARES (ACRES)	T.L.E. AREA HECTARES (ACRES)
				NEW	EXISTING	TOTAL		
1	ELMER A. & JOYCE L. HATZ	FEE & T.L.E.	43.34 (107.10)	0.03 (0.07)	-----	0.03 (0.07)	43.31 (107.03)	0.13 (0.34)
2	JAMES R. & VICKY M. JOHNSON	FEE & T.L.E.	16.16 (39.94)	0.04 (0.10)	-----	0.04 (0.10)	16.12 (39.84)	0.14 (0.35)
3	GTE NORTH, INC.	RELEASE OF RIGHTS			-----			

● SET 25mm IRON PIPE WEIGHING 1.5 kg/m.

NOTES: BEARINGS ARE REFERENCED TO THE NORTH LINE OF SECTION 10. ASSUMED TO BEAR S 89° 54' 43" E.  
EXISTING R/W ESTABLISHED FROM LA CROSSE COUNTY HIGHWAY DEPT. R/W PLAT

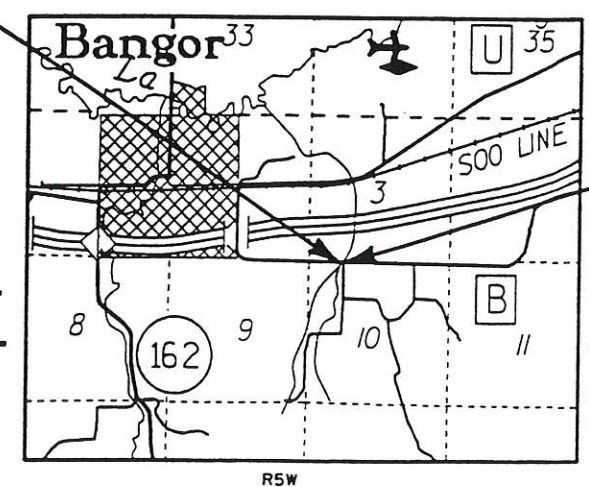
COURSE TABLE		
COURSE	BEARING	DISTANCE
A	N89°30'12"E	10.058m (33.00')
B	N00°29'48"W	17.620m (57.81')

TOWN OF BANGOR



BEGIN RELOCATION  
STA. 4+930  
1.58m (3.80') NORTH OF  
& 314.900m (1033.13') EAST OF  
THE NORTHWEST CORNER OF  
SECTION 10, T16N, R5W

END RELOCATION  
STA. 5+060



LAYOUT

NE-NW  
10-16-5

**WISCONSIN**  
CARL M. SANDSNES  
S-1819  
MADISON, WISCONSIN  
LAND SURVEYOR  
JANUARY 28<sup>TH</sup>, 1997

APPROVED FOR  
COUNTY OF LA CROSSE  
4-2-97 *Rebecca Buehler*  
DATE COUNTY HIGHWAY COMMISSIONER

REVISION DATE	DATE	SCALE, METERS 0 25 50	HWY: CTH B	FEDERAL PROJECT NO:
			COUNTY: LA CROSSE	STATE R/W PROJECT NO: 5069-02-21
				SHEET NO: 4

PLAN # 375

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5069-02-00, LA CROSSE COUNTY

INDEX OF SHEETS

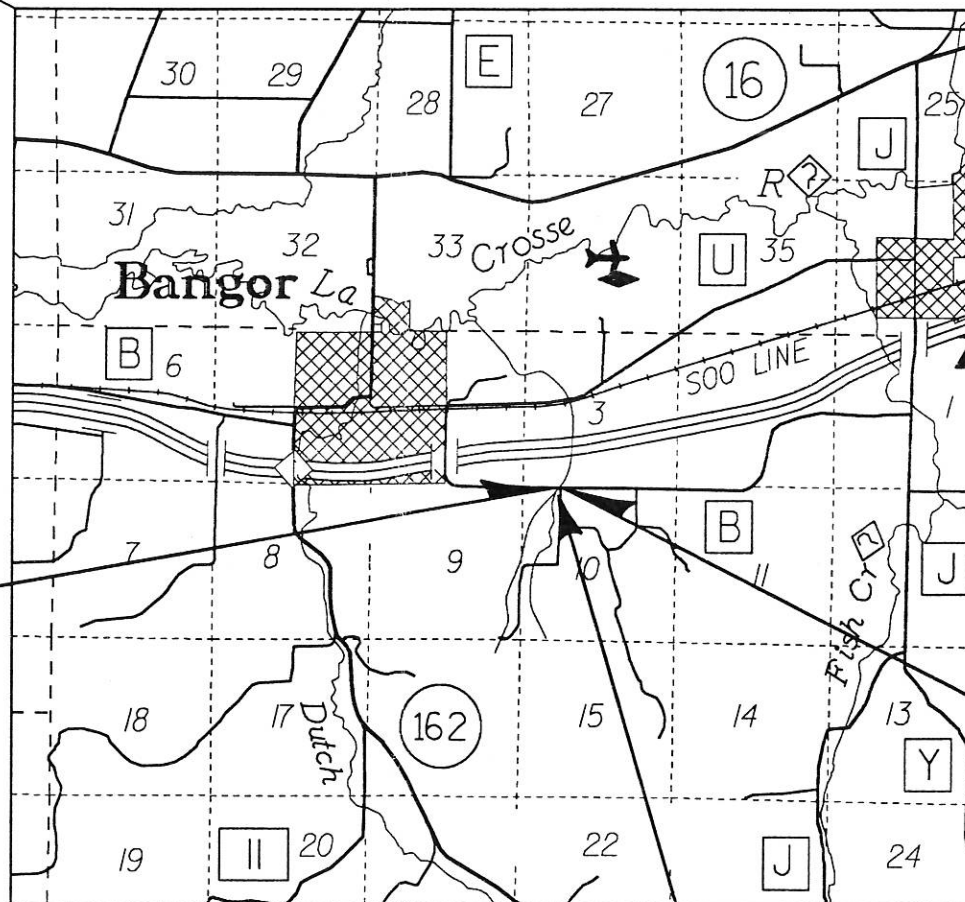
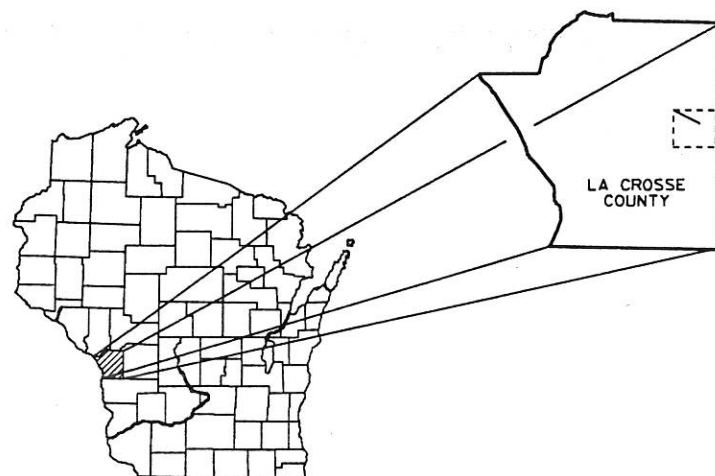
Sheet No.	1	Title
Sheet No.		Typical Sections and Details
Sheet No.		Estimate of Quantities
Sheet No.		Miscellaneous Quantities
Sheet No.		Right of Way Plat
Sheet No.		Plan and Profile
Sheet No.		Standard Detail Drawings
Sheet No.		Sign Plates
Sheet No.		Structure Plans
Sheet No.		Computer Earthwork Data
Sheet No.		Cross Sections

TOTAL SHEETS =

STATE OF WISCONSIN  
 DEPARTMENT OF TRANSPORTATION  
**BANGOR - ROCKLAND ROAD**  
 BRANCH CREAMERY CREEK BRIDGE & APPROACHES  
**CTH B**  
**LA CROSSE COUNTY**

STATE PROJECT	FEDERAL PROJECT	
	PROJECT	CONTRACT
5069-02-71		

STATE PROJECT NUMBER  
 5069-02-71



T17N  
 Rockland  
 90  
 T16N

DESIGN DESIGNATION

A.D.T. (1997)	=	440
A.D.T. (2017)	=	550
D.H.V.	=	121
D.	=	60-40
T.	=	10%
DESIGN SPEED	=	90 kmph
ESALS	=	N/A

BEGIN PROJECT  
 STA. 4+920  
 Y 209.845 ( ± 40m )  
 X 531.942 ( ± 40m )

END PROJECT  
 STA. 5+060

CONVENTIONAL SYMBOLS

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

R5W  
 LAYOUT  
 SCALE 0 1 km  
 TOTAL NET LENGTH OF CENTERLINE = 0.140 km

STRUCTURE B-32-186  
 THE COORDINATES SHOWN ON THIS PLAN ARE REFERENCED TO THE WISCONSIN COORDINATE SYSTEM, SOUTH ZONE, SCALED FROM U.S.G.S TOPOGRAPHIC MAP, BANGOR QUAD, FOR IDENTIFICATION ONLY.

APPROVED FOR LA CROSSE COUNTY  
 DATE: 3-27-97 *Roland Brilleman*  
 COUNTY HIGHWAY COMMISSIONER

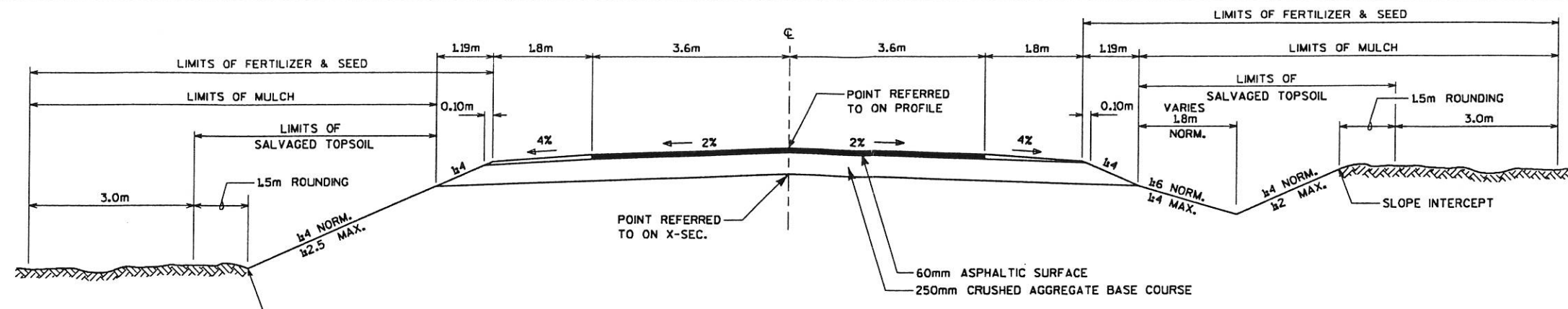
ORIGINAL PLANS PREPARED BY  
**AYRES ASSOCIATES** Engineers/Photogrammetrists  
 Scientists/Surveyors  
 3433 Oakwood Hills Parkway  
 Eau Claire, Wisconsin, 54702

**WISCONSIN PROFESSIONAL ENGINEER**  
 JAN F. ZANDER  
 E-29249  
 BARNEVELD, WIS.  
 DATE: 3/21/97

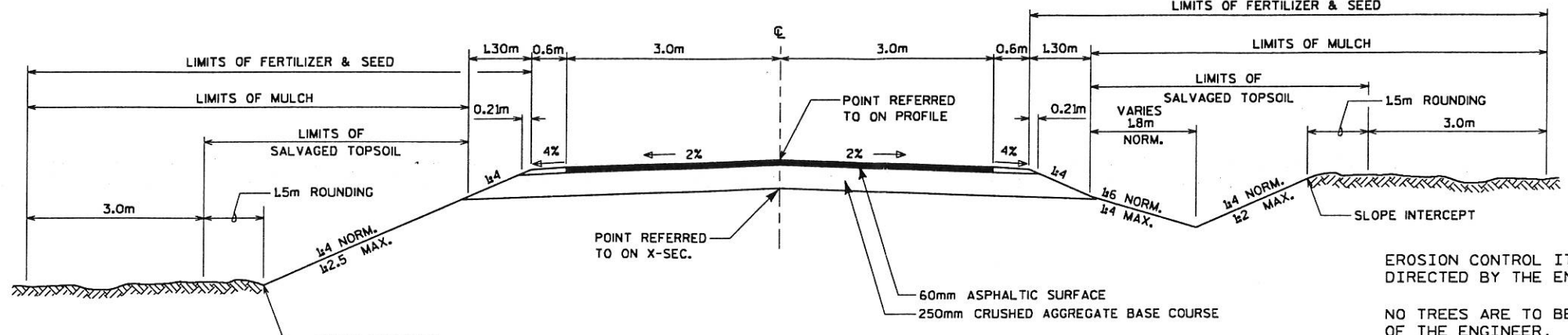
STATE OF WISCONSIN DEPARTMENT OF TRANSPORTATION  
 PREPARED BY  
 Surveyor: AYRES ASSOCIATES  
 Designer: AYRES ASSOCIATES  
 District Examiner: SAUNDRA K. PARKER  
 District Supervisor: JAMES D. ROHE, P.E.  
 Proj. Dev. Engineer:  
 C. O. Examiner:

APPROVED FOR DISTRICT OFFICE  
 DATE: (Signature)

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TYPICAL SECTION C.T.H. "B"



TYPICAL SECTION PRAIRIE ROAD

GENERAL NOTES

EROSION CONTROL ITEMS TO BE PLACED AS SHOWN ON THE PLAN OR AS DIRECTED BY THE ENGINEER.

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

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

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

THE EXACT LOCATION OF FIELD ENTRANCES SHALL BE DETERMINED BY THE ENGINEER.

STANDARD DETAIL DRAWINGS

- 8E8-2 TYPICAL INSTALLATION OF EROSION BALES
- 8E9-4 SILT FENCE
- 8F1-11 APRON ENDWALLS FOR CULVERT PIPE
- 12A3-4 NAME PLATE - STRUCTURES
- 15A1-6 MARKER POSTS FOR RIGHT-OF-WAY
- 15A2-4 DELINEATOR POSTS, DELINEATOR BRACKET, AND DELINEATORS
- 15C8-7a PAVEMENT MARKING (MAINLINE)
- 15C8-7b PAVEMENT MARKING (INTERSECTIONS)
- 15C12-2 TRAFFIC CONTROL FOR LANE CLOSURES (SUITABLE FOR MOVING OPERATIONS)

DESIGNER  
 AYRES ASSOCIATES  
 3433 OAKWOOD HILLS PARKWAY  
 EAU CLAIRE, WI. 54701  
 (715) 834-3161  
 JAN F. ZANDER

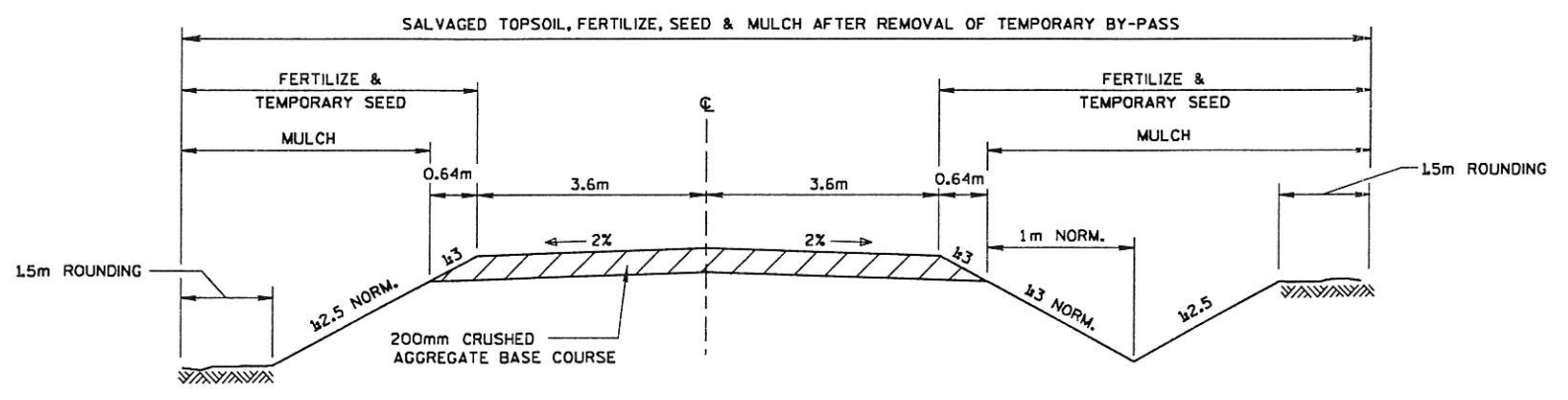
UTILITIES

GTE NORTH INC.  
 MR. BILL HERZBERG  
 835 RED IRON ROAD  
 BLACK RIVER FALLS, WI 54615  
 (715) 284-4373

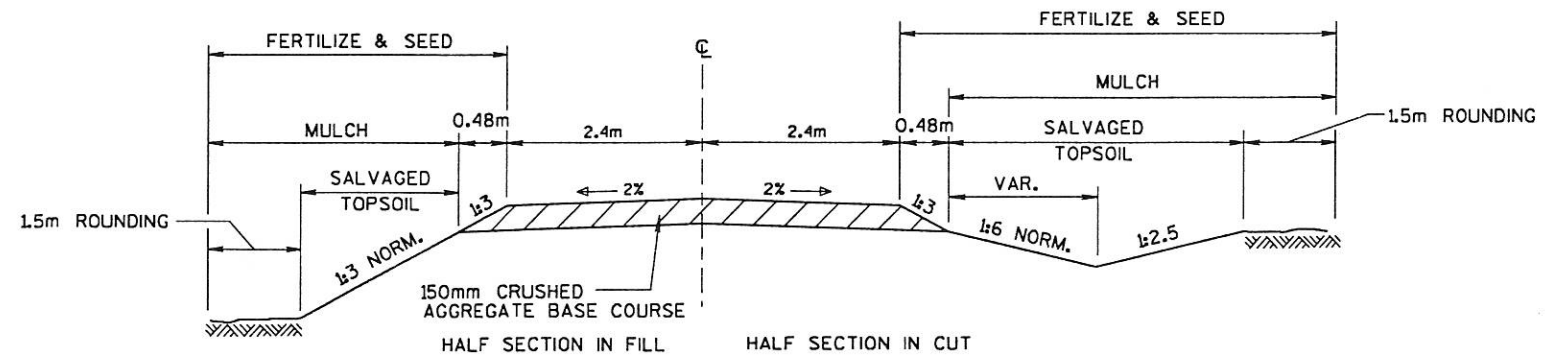
BANGOR MUNICIPAL LIGHT & WATER  
 MR. CECIL ROLFE  
 P.O. BOX 130  
 BANGOR, WI 54614  
 (608) 486-2151

WISCONSIN DEPARTMENT OF NATURAL RESOURCES CONTACT:

WISCONSIN DEPARTMENT OF NATURAL RESOURCES  
 MR. CRAIG D. THOMPSON  
 STATE OFFICE BLDG, ROOM 104  
 3550 MORMON COULEE ROAD  
 LA CROSSE, WI 54601  
 (608) 785-9000



TYPICAL SECTION FOR TEMPORARY BY-PASS ROADWAY



TYPICAL SECTION FOR PRIVATE & FIELD ENTRANCES

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

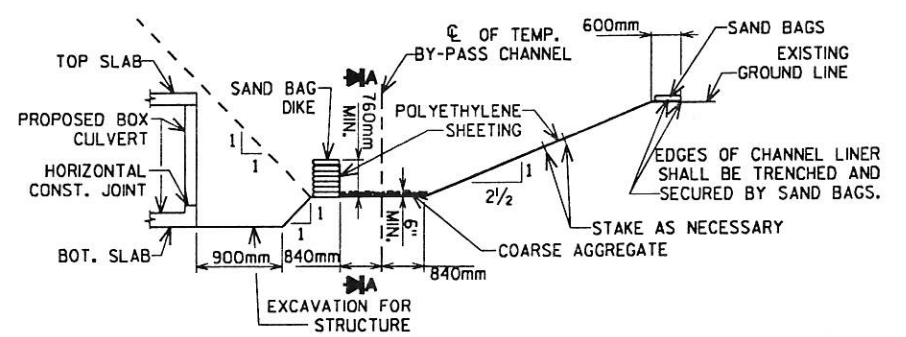
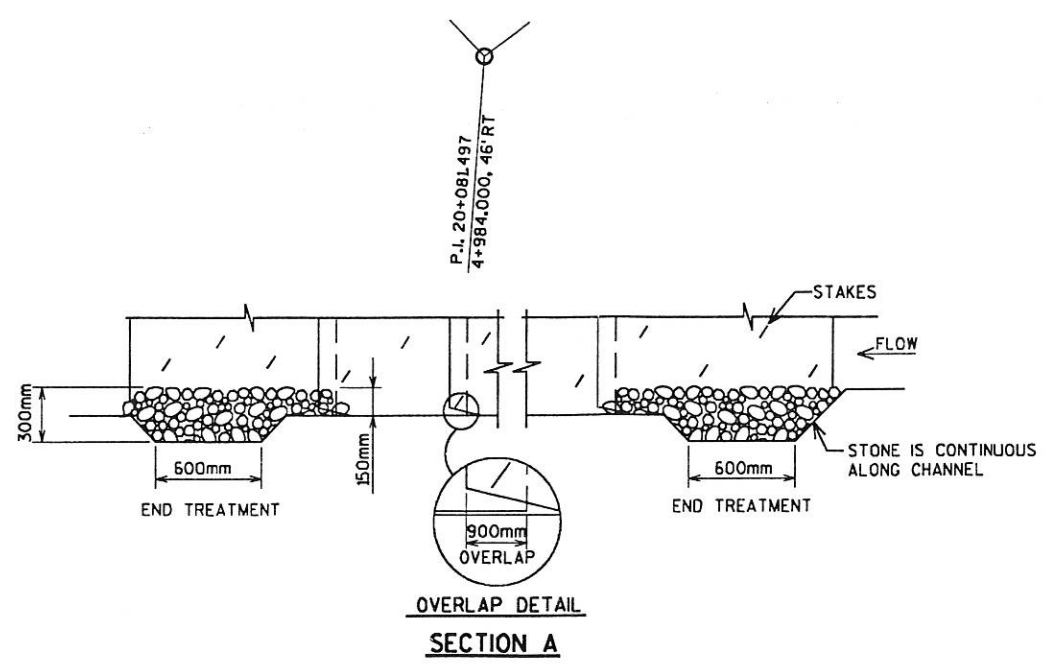
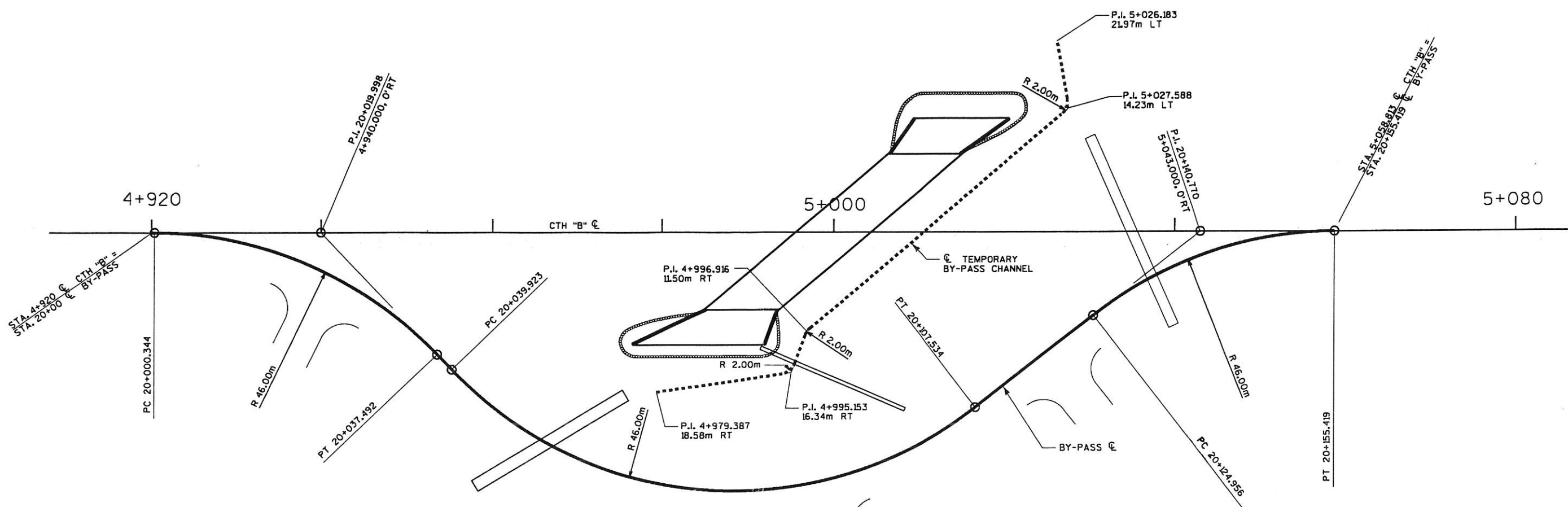
**CALL DIGGERS HOTLINE**  
**1-800-242-8511**  
 TOLL FREE

FAX A LOCATE 1-800-338-3980  
 TDD (FOR HEARING IMPAIRED) 1-800-542-2288

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

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

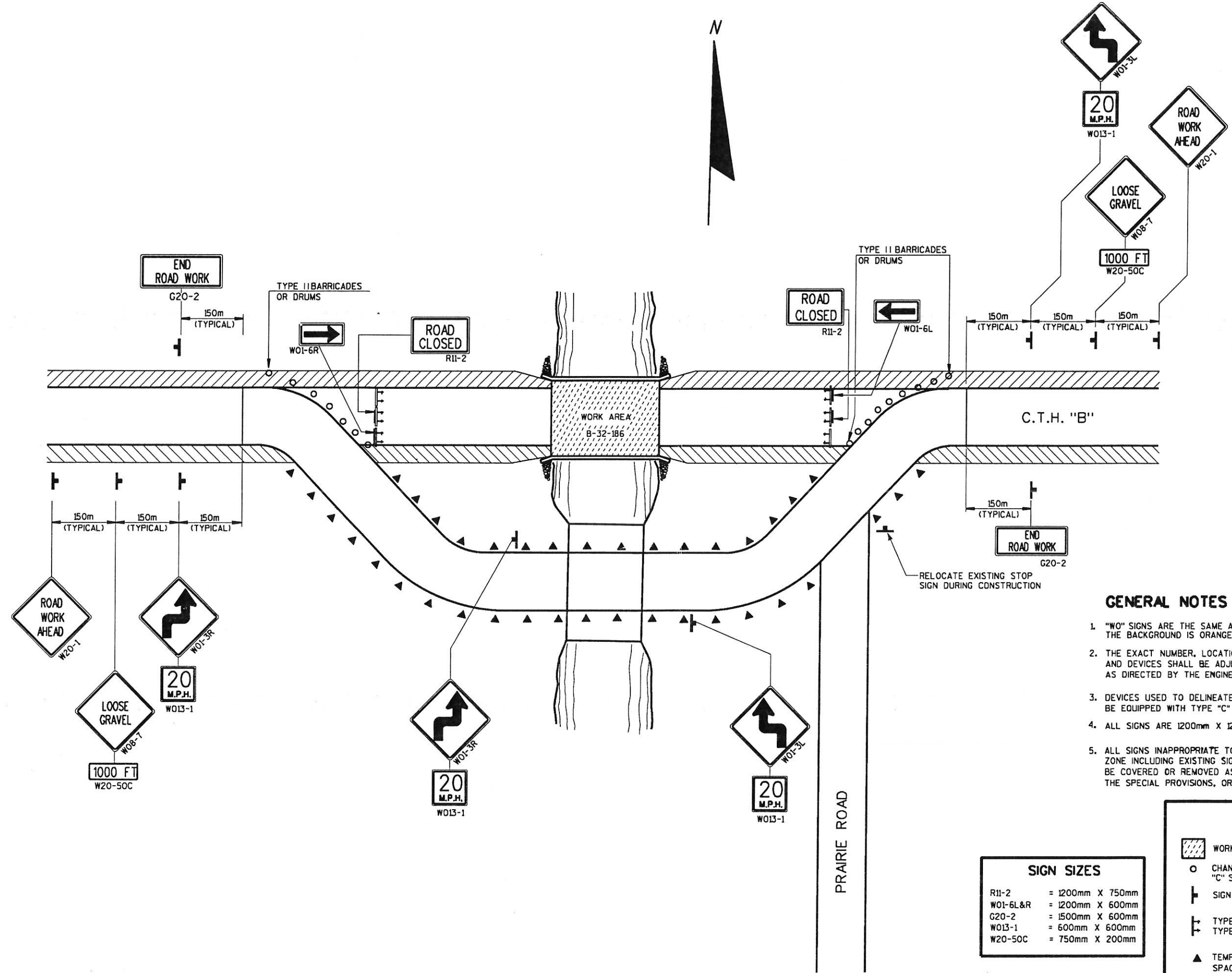
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**SECTION THRU TEMP. BY-PASS CHANNEL**  
 THE CONTRACTOR MAY ALTER THE CHANNEL LOCATION AND CONFIGURATION WITH THE ENGINEERS APPROVAL. PAYMENT FOR TEMPORARY BYPASS WILL BE MADE FOR BID ITEMS FOR EACH ITEM AS SHOWN ON THIS PLAN.

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 TYP.REF ON = 1-63



**GENERAL NOTES**

1. "WO" SIGNS ARE THE SAME AS "W" SIGNS EXCEPT THE BACKGROUND IS ORANGE.
2. THE EXACT NUMBER, LOCATION AND SPACING OF ALL SIGNS AND DEVICES SHALL BE ADJUSTED TO FIT FIELD CONDITIONS AS DIRECTED BY THE ENGINEER.
3. DEVICES USED TO DELINEATE A TRAVEL PATH SHALL BE EQUIPPED WITH TYPE "C" (STEADY BURN) LIGHTS.
4. ALL SIGNS ARE 1200mm X 1200mm UNLESS OTHERWISE NOTED.
5. ALL SIGNS INAPPROPRIATE TO THE STATUS OF THE CONTROL ZONE INCLUDING EXISTING SIGNING IN THE VICINITY, SHALL BE COVERED OR REMOVED AS SPECIFIED IN THE PLANS AND/OR THE SPECIAL PROVISIONS, OR AS DIRECTED BY THE ENGINEER.

**LEGEND**

- WORK AREA
- CHANNELIZING DEVICES, WITH TYPE "C" STEADY-BURN LIGHTS
- SIGN ON PERMANENT SUPPORT
- TYPE III BARRICADE WITH TWO (2) TYPE "A" FLASHING LIGHTS
- TEMPORARY DELINEATORS AT 7.5m SPACING (UNIDIRECTIONAL)

**SIGN SIZES**

R11-2	= 1200mm X 750mm
W01-6L&R	= 1200mm X 600mm
G20-2	= 1500mm X 600mm
W013-1	= 600mm X 600mm
W20-50C	= 750mm X 200mm

CLEARING & GRUBBING			
STATION TO STATION	LOCATION	CLEARING (40m)	GRUBBING (40m)
4+920 TO 5+060	MAINLINE	4	4

SALVAGED TOPSOIL, MULCHING, FERTILIZER, & SEEDING								
ROADWAY	STATION TO STATION	LOCATION	SALVAGED TOPSOIL (m2)	MULCHING (m2)	FERTILIZER TYPE B (Kg)	SEEDING NO. 20 (Kg)	SEEDING TEMPORARY (Kg)	SEEDING BORROW PIT (Kg)
CTH B	4+920 TO 5+060	MAINLINE	1930	2980	120	52	-	-
BY-PASS RESTORATION	-	MAINLINE	1670	4650	63	28	20	-
BORROW PIT	-	-	-	-	32	-	-	8
TOTALS	-	-	3600	4560	215	80	20	8

SAND BAGS	
LOCATION	EACH
TEMP. BY-PASS CHANNEL	1550

COARSE AGGREGATE	
LOCATION	m3
TEMP. BY-PASS CHANNEL	18

POLYTHELENE SHEETING DELIVERED INSTALLED			
LOCATION	m2	m2	
TEMP. BY-PASS CHANNEL	550	550	

EROSION BALES				
ROADWAY	STATION TO STATION	EROSION BALES DELIVERED (EACH)	EROSION BALES INSTALLED (EACH)	
CTH B	UNDISTRIBUTED	10	10	
TOTAL	-	10	10	

AVERAGE END AREA SUMMARY  
CONSTRUCT BYPASS ROADWAY

STATION	END AREA CUT (m2)	END AREA FILL (m2)	AVERAGE END AREA CUT (m2)	AVERAGE END AREA FILL (m2)	VOLUME CUT (m3)	VOLUME FILL (m3)
4+920	0	0	0	1.1	0	22
4+940	0	2.2	2.9	7.55	58	151
4+960	5.8	12.9	4.85	9.35	97	187
4+980	3.9	5.8	3.6	6.1	72	122
5+ 0	3.3	6.4	3.3	6.4	30	58
5+ 9	3.3	6.4	-	-	-	-
5+ 23	1.1	0.6	-	-	-	-
5+ 40	0.8	6.4	0.95	3.5	16	60
5+ 60	0	0	0.4	3.2	8	64
TOTAL	-	-	-	-	281m3	664
					UNCL. EXC	SHR. x1.3
					WASTE -	863
					BORROW EX	582m3

AVERAGE END AREA SUMMARY  
CONSTRUCT MAINLINE

STATION	END AREA CUT (m2)	END AREA FILL (m2)	AVERAGE END AREA CUT (m2)	AVERAGE END AREA FILL (m2)	VOLUME CUT (m3)	VOLUME FILL (m3)
4+920	2.6	0	4.15	0	83	0
4+940	5.7	0	4.9	0.4	98	8
4+960	4.1	0.8	6.5	1.3	130	26
4+980	8.9	1.8	6.85	1.6	137	32
5+ 0	4.8	1.4	7.25	3.65	116	58
5+ 16	9.7	5.9	7.25	4.15	29	17
5+ 20	4.8	2.4	3.85	1.7	77	34
5+ 40	2.9	1	3	0.5	60	10
5+ 60	3.1	0	-	-	-	-
TOTAL	-	-	-	-	730m3	185
					UNCL. EXC	SHR. x1.3
					WASTE -	489m3
					BORROW EX	0m3

AVERAGE END AREA SUMMARY  
BYPASS CHANNEL CONSTRUCT AND REMOVE

STATION	END AREA CUT (m2)	END AREA FILL (m2)	AVERAGE END AREA CUT (m2)	AVERAGE END AREA FILL (m2)	VOLUME CUT (m3)	VOLUME FILL (m3)
10+ 0	0.6	0.6	3.9	3.9	39	39
10+ 10	7.2	7.2	9.15	9.15	92	92
10+ 20	11.1	11.1	15.2	15.2	152	152
10+ 30	19.3	19.3	20.5	20.5	205	205
10+ 40	21.6	21.6	18.4	18.4	184	184
10+ 50	15.1	15.1	9.65	9.65	97	97
10+ 60	4.2	4.2	2.8	2.8	22	22
10+ 68	1.4	1.4	-	-	-	-
TOTAL	-	-	-	-	791m3	791
					UNCL. EXC	SHR. x1.3
					UNCL. EXC	1028
					WASTE -	0m3
					BORROW EX	237m3

AVERAGE END AREA SUMMARY  
REMOVE BYPASS ROADWAY

STATION	END AREA CUT (m2)	END AREA FILL (m2)	AVERAGE END AREA CUT (m2)	AVERAGE END AREA FILL (m2)	VOLUME CUT (m3)	VOLUME FILL (m3)
4+920	0	0	1.1	0	22	0
4+940	2.2	0	7.55	2.9	151	58
4+960	12.9	5.8	9.35	4.85	187	97
4+980	5.8	3.9	6.1	1.95	122	39
5+ 0	6.4	0	6.4	0	58	0
5+ 9	6.4	0	-	-	-	-
5+ 23	2.7	0	-	-	-	-
5+ 40	2.7	0	2.7	0	46	0
5+ 60	0	0	1.35	0	27	0
TOTAL	-	-	-	-	613m3	194
					UNCL. EXC	SHR. x1.3
					UNCL. EXC	252
					WASTE -	726m3
					BORROW EX	0m3

CRUSHED AGGREGATE BASE COURSE			
ROADWAY	STATION TO STATION	LOCATION	M3
CTH B	4+920 TO 5+060	MAINLINE	550
CTH B	4+920 TO 5+060	SHOULDERS	35
CTH B	BYPASS ROADWAY	-	365
CTH B	4+937 LEFT	F.E.	11
CTH B	4+940 RIGHT	TEMP. F.E.	8
CTH B	4+945 RIGHT	F.E.	8
CTH B	4+984 LEFT	P.F.E.	25
CTH B	5+000 RIGHT	TEMP. F.E.	10
CTH B	5+003 RIGHT	F.E.	7
CTH B	5+025 RIGHT	TEMP. F.E.	6
CTH B	5+025 RIGHT	F.E.	10
PRAIRIE ROAD	5+016 RIGHT	SIDE ROAD	100
TOTAL	-	-	1135

PAVEMENT MARKING, 100mm		
STATION	LOCATION	PAINT (m)
4+920-5+060	CENTERLINE (YELLOW DASHED)	35
4+920-5+060	EDGE LINE WHITE	280
TOTAL	-	315

REMOVE OLD CULVERTS		
STATION	EACH	
5+020 RT	1	
5+031	1	
TOTAL	2	

SAWING EXISTING PAVEMENT		
STATION	m	
4+920	7.2	
5+060	7.2	
TOTAL	14.4	

EROSION MAT			
STATION TO STATION	LOCATION	CLASS I, TYPE B, DELIVERED (m2)	CLASS I, TYPE B INSTALLED (m2)
UNDISTRIBUTED	-	40	40
TOTAL	-	40	40

SILT FENCE, SILTY SOIL					
ROADWAY	STATION TO STATION	LOCATION	DELIVERED (M)	INSTALLED (m)	MAINTENANCE (m)
CTH B	4+950 - 4+990	BY-PASS RT	35	35	70
CTH B	4+980 - BOX	BY-PASS RT	30	30	60
CTH B	5+010 - BOX	BY-PASS LT	35	35	70
CTH B	UNDISTRIBUTED	-	20	20	40
TOTAL	-	-	120	120	240

CULVERT PIPE							
STATION	LOCATION	DIA. mm	LENGTH m	TYPE	RCCP CLASS	THICKNESS STEEL (INCH)	ALUM. APRON ENDWALLS (EA.)
4+937	FE LT	600	9	CP	III	0.064	0.075
4+984	FE LT	600	13	CP	III	0.064	0.075
5+003	FE RT	900	18	CP	III	0.079	0.105
5+035	CROSS DRAIN	1200	24	CP	III	0.109	0.105

ASPHALTIC SURFACE		
ROADWAY	STATION TO STATION	(Mg)
CTH B	4+920-5+060	155
PRAIRIE RD	5+016 RT	30
TOTAL	-	185

MARKER POSTS FOR RIGHT OF WAY		
STATION	OFFSET	EACH
4+930	10.058 LT	1
4+930	10.058 RT	1
4+960	10.058 RT	1
4+970	20.000 RT	1
5+000	10.058 LT	1
5+000	20.000 LT	1
5+005.809	20.000 RT	1
5+030	20.000 LT	1
5+030	10.058 LT	1
5+060	10.058 LT	1
5+060	10.058 RT	1
TOTAL	-	11

TEMPORARY CULVERT PIPE, 450mm	
LOCATION	m
STA. 5+000 FE RT	10
TEMPORARY CULVERT PIPE, 1800mm	
LOCATION	m
TEMP. BY-PASS	21

PEN TABLE = V80-TBI  
DATE OF PLOT: 05/28/97  
DESIGN FILE = ntabrldge+420219+dgn+02190n.dgn  
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# SCHEDULE OF LANDS & INTERESTS REQUIRED

PARCEL NUMBER	OWNER	INTEREST REQUIRED	TOTAL AREA HECTARES (ACRES)	R/W AREA REQUIRED			TOTAL AREA REM. HECTARES (ACRES)	T.L.E. AREA HECTARES (ACRES)
				NEW	EXISTING	TOTAL		
1	ELMER A. & JOYCE L. HATZ	FEE & T.L.E.	43.34 (107.10)	0.03 (0.07)	-----	0.03 (0.07)	43.31 (107.03)	0.13 (0.34)
2	JAMES R. & VICKY M. JOHNSON	FEE & T.L.E.	16.16 (39.94)	0.04 (0.10)	-----	0.04 (0.10)	16.12 (39.84)	0.14 (0.35)
3	GTE NORTH, INC.	RELEASE OF RIGHTS	-----	-----	-----	-----	-----	-----

## LEGEND

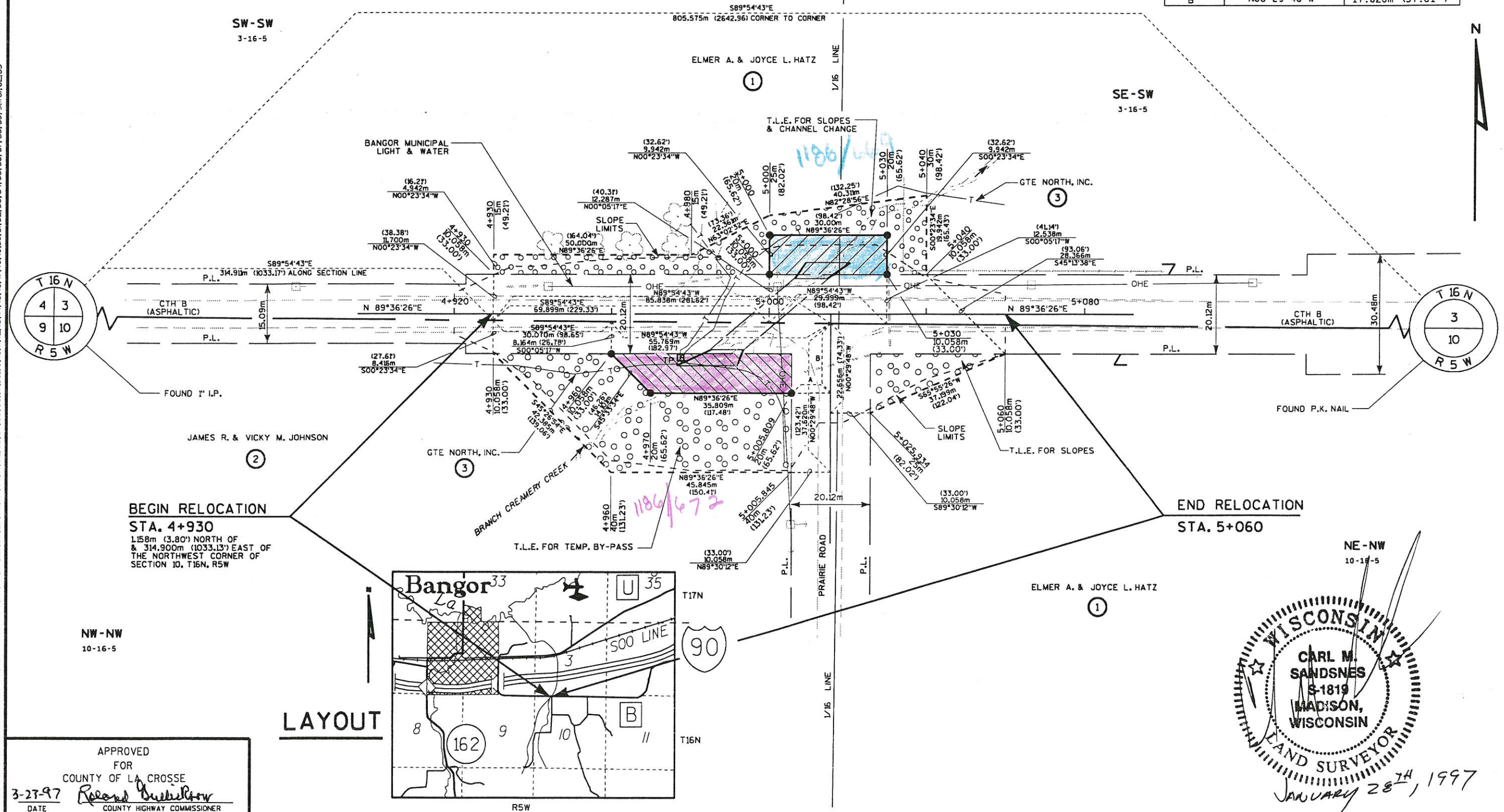
- SET 25mm IRON PIPE WEIGHING 1.5 kg/m.

NOTES: BEARINGS ARE REFERENCED TO THE NORTH LINE OF SECTION 10. ASSUMED TO BEAR S 89° 54' 43" E.  
EXISTING R/W ESTABLISHED FROM LA CROSSE COUNTY HIGHWAY DEPT. R/W PLAT

## COURSE TABLE

COURSE	BEARING	DISTANCE
A	N89°30'12"E	10.058m (33.00')
B	N00°29'48"W	17.620m (57.81')

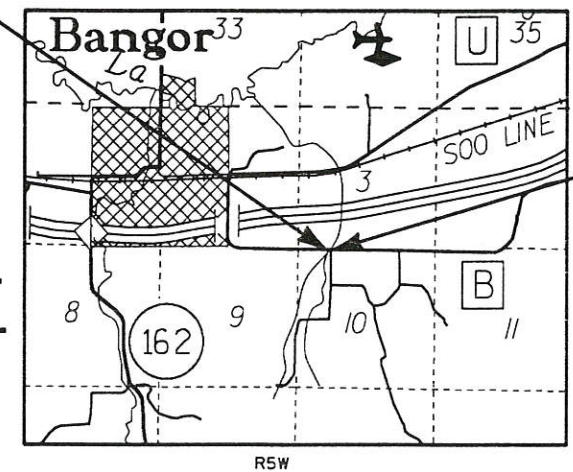
## TOWN OF BANGOR



**BEGIN RELOCATION STA. 4+930**  
1.158m (3.80') NORTH OF & 314.900m (1033.13') EAST OF THE NORTHWEST CORNER OF SECTION 10, T16N, R5W

**END RELOCATION STA. 5+060**

## LAYOUT



APPROVED FOR COUNTY OF LA CROSSE  
3-27-97  
DATE  
Roland Duester  
COUNTY HIGHWAY COMMISSIONER

WISCONSIN  
CARL M. SANDSNES  
S-1819  
MADISON, WISCONSIN  
LAND SURVEYOR  
JANUARY 28<sup>TH</sup>, 1997

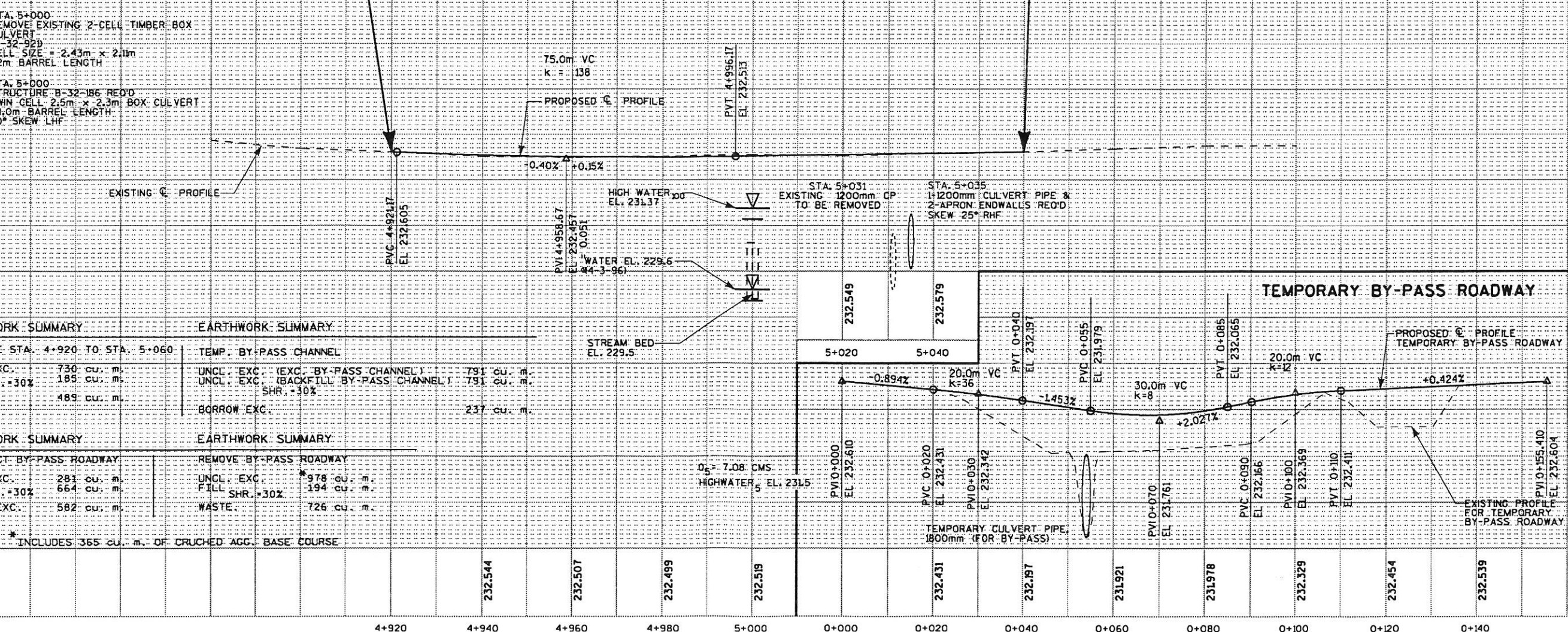
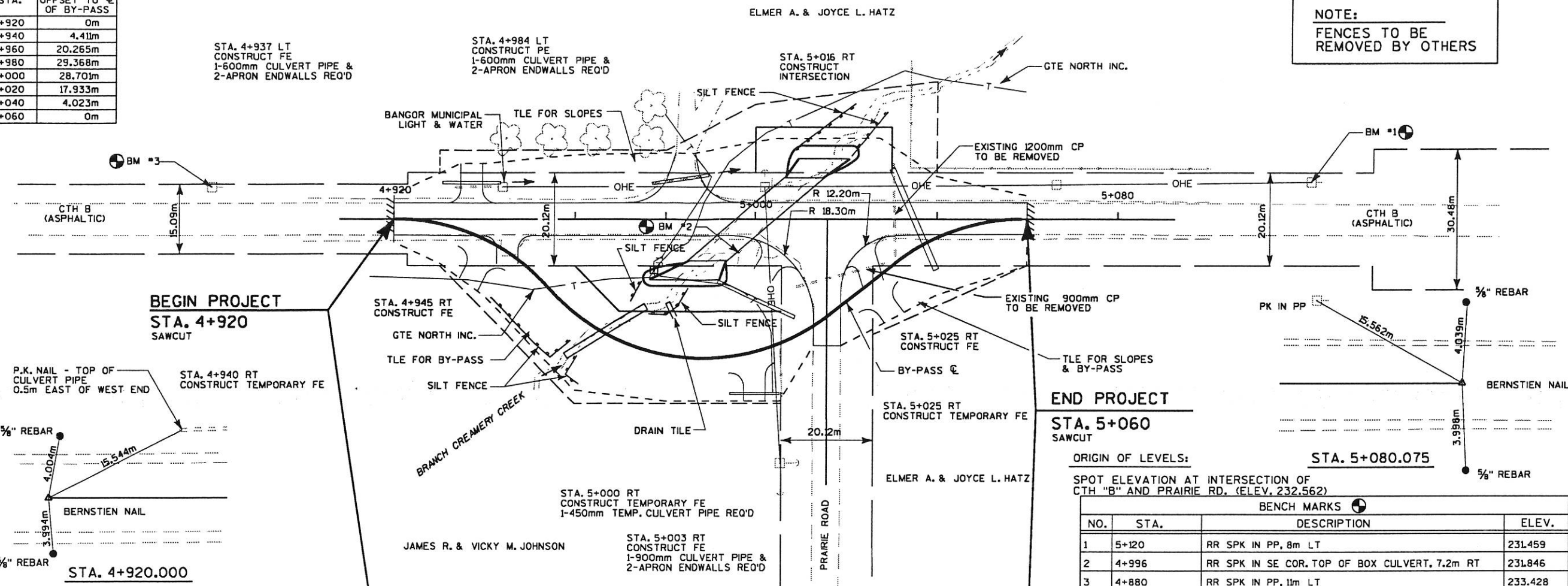
REVISION DATE	DATE	SCALE, METERS 0 25 50	HWY: CTH B	FEDERAL PROJECT NO:
			COUNTY: LA CROSSE	STATE R/W PROJECT NO: 5069-02-21
				SHEET NO: 4. M

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STA.	OFFSET TO C OF BY-PASS
4+920	0m
4+940	4.41m
4+960	20.265m
4+980	29.368m
5+000	28.701m
5+020	17.933m
5+040	4.023m
5+060	0m

NOTE:  
 FENCES TO BE REMOVED BY OTHERS



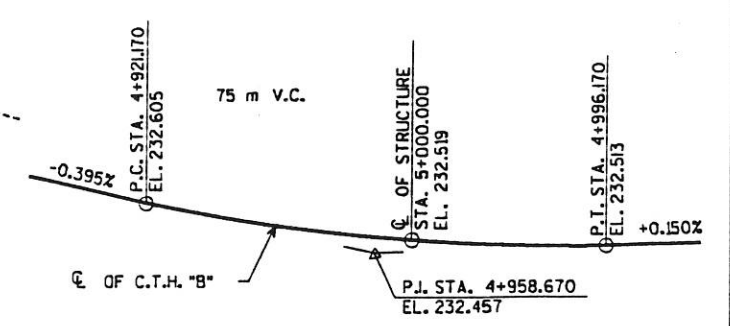
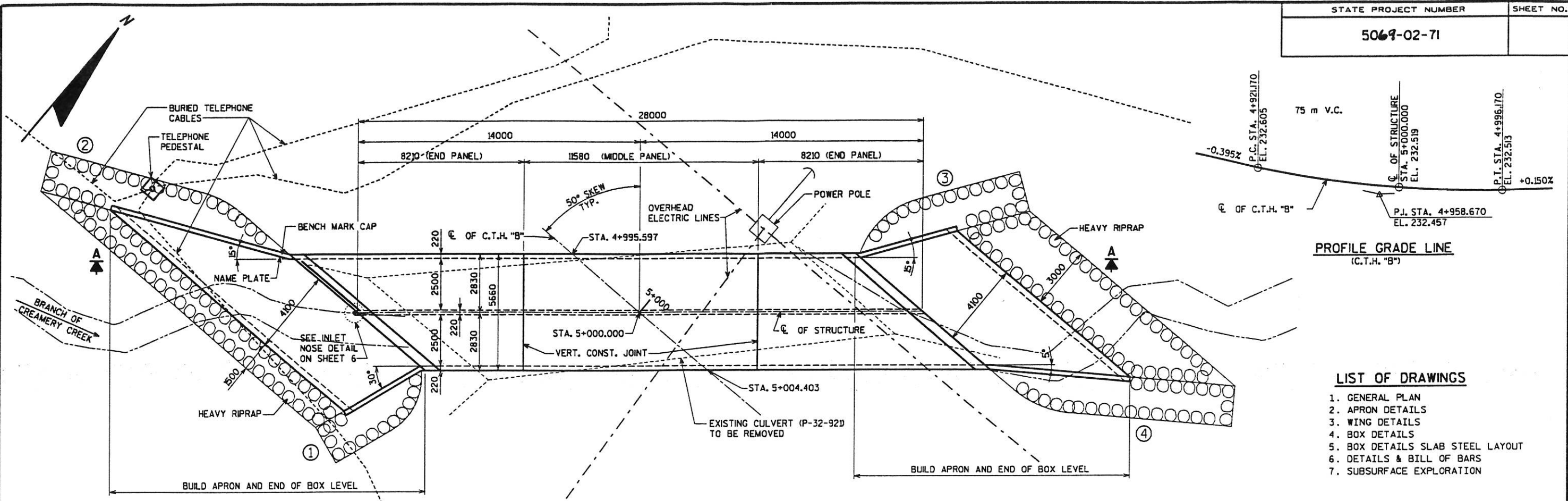
EARTHWORK SUMMARY		EARTHWORK SUMMARY	
MAINLINE STA. 4+920 TO STA. 5+060		TEMP. BY-PASS CHANNEL	
UNCL. EXC.	730 cu. m	UNCL. EXC. (EXC. BY-PASS CHANNEL)	791 cu. m
FILL SHR. +30%	185 cu. m	UNCL. EXC. (BACKFILL BY-PASS CHANNEL)	791 cu. m
WASTE	189 cu. m	BORROW EXC.	237 cu. m
EARTHWORK SUMMARY		EARTHWORK SUMMARY	
CONSTRUCT BY-PASS ROADWAY		REMOVE BY-PASS ROADWAY	
UNCL. EXC.	281 cu. m	UNCL. EXC.	978 cu. m
FILL SHR. +30%	664 cu. m	FILL SHR. +30%	194 cu. m
BORROW EXC.	582 cu. m	WASTE	726 cu. m

\* INCLUDES 355 cu. m. OF CRUSHED AGG. BASE COURSE

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

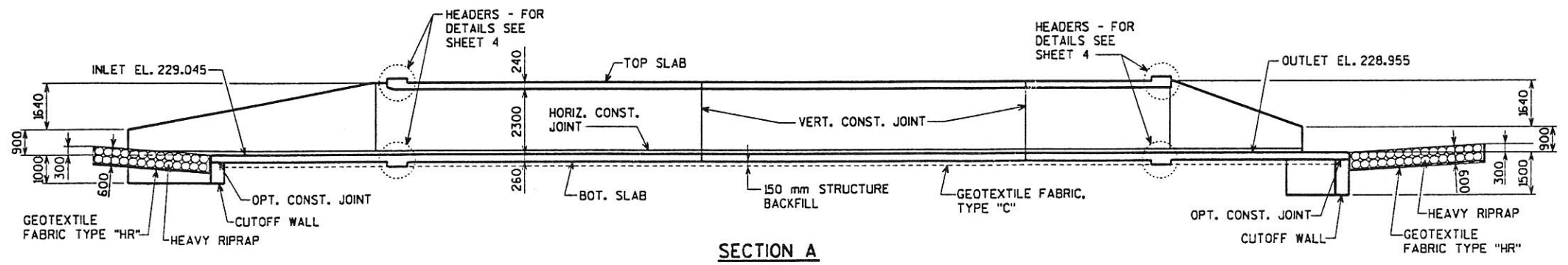
**LIST OF DRAWINGS**

1. GENERAL PLAN
2. APRON DETAILS
3. WING DETAILS
4. BOX DETAILS
5. BOX DETAILS SLAB STEEL LAYOUT
6. DETAILS & BILL OF BARS
7. SUBSURFACE EXPLORATION

**DESIGN DATA**

**LIVE LOAD:** MS18  
**EARTH LOAD:** 1000 mm  
**ULTIMATE DESIGN STRESSES:**  
 CONCRETE MASONRY  $f'_c = 24 \text{ MPa}$   
 HIGH STRENGTH BAR STEEL REINFORCEMENT (GRADE 420)  $f_y = 420 \text{ MPa}$   
**HYDRAULIC DATA:**  
 DRAINAGE AREA = 4.71 km<sup>2</sup>  
 WATERWAY AREA = 8.84 m<sup>2</sup>  
 $V = 2.24 \text{ m/sec}$   
 $Q_{100} = 19.8 \text{ m}^3/\text{sec}$   
 HIGH WATER  $\infty$  EL. 231.37  
 RDWY. OVERFLOW = N/A  
 SCOUR CRITICAL CODE = N/A  
**TRAFFIC DATA:**  
 A.D.T. = 440 (1997)  
 A.D.T. = 550 (2017)  
 R.D.S. = 90 kmph

**PLAN**  
TWIN CELL CONCRETE BOX CULVERT



**SECTION A**

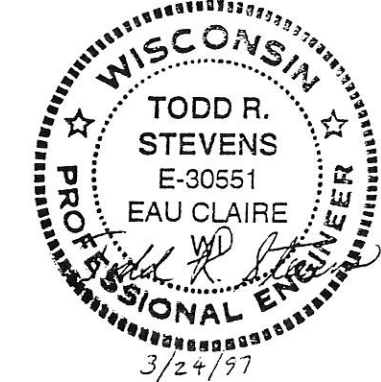
**GENERAL NOTES**

DRAWINGS SHALL NOT BE SCALED.  
 BAR STEEL REINFORCEMENT SHALL BE EMBEDDED 50 mm CLEAR UNLESS SHOWN OR NOTED OTHERWISE.  
 ALL REINFORCING BARS ARE METRIC AND THE FIRST TWO DIGITS OF THE BAR MARK SIGNIFIES THE BAR SIZE.  
 JOINT FILLER SHALL CONFORM TO THE REQUIREMENTS OF A.A.S.H.T.O. DESIGNATION M 153, TYPE I, II OR III OR A.A.S.H.T.O. DESIGNATION M 213.  
 THE UPPER LIMITS OF "EXCAVATION FOR STRUCTURES" SHALL BE THE EXISTING GROUND LINE.  
 THE ALTERNATE CUTOFF WALL MAY BE USED IN LIEU OF THE CAST-IN-PLACE CONCRETE CUTOFF WALLS. PAYMENT SHALL BE BASED ON THE CONCRETE CUTOFF WALLS.  
 THE CONCRETE IN THE CUTOFF WALL MAY BE PLACED UNDERWATER IF THE EXCAVATION CANNOT BE DEWATERED.  
 GEOTEXTILE FABRIC TYPE "C" IS TO BE PLACED UNDER BOX CULVERT AND APRONS.  
 THE CONTRACTOR MAY FURNISH A PRECAST CONCRETE BOX SECTION IN LIEU OF THE CAST-IN-PLACE BOX CULVERT. MATERIALS AND FABRICATION SHALL BE IN ACCORDANCE WITH SPECIFICATIONS FOR HIGHWAY AND BRIDGES, CURRENT EDITION, AND APPROVED BY THE ENGINEER.  
 ALL SPACES EXCAVATED AND NOT OCCUPIED BY THE NEW STRUCTURE SHALL BE BACKFILLED WITH STRUCTURE BACKFILL TO THE ELEVATION AND SECTION EXISTING PRIOR TO EXCAVATION WITHIN THE LENGTH OF THE BOX.

**TOTAL ESTIMATED QUANTITIES**

BID ITEMS	AMOUNT
REMOVING OLD CULVERT, STA. 5+000	1 L.S.
EXCAVATION FOR STRUCTURES, CULVERTS B-32-186	1 L.S.
CONCRETE MASONRY, CULVERTS	165 m <sup>3</sup>
HIGH-STRENGTH BAR STEEL REINFORCEMENT, CULVERTS	8940 kg
STRUCTURE BACKFILL	210 m <sup>3</sup>
RUBBERIZED MEMBRANE WATERPROOFING	5 m <sup>2</sup>
HEAVY RIPRAP	80 m <sup>3</sup>
GEOTEXTILE FABRIC, TYPE "HR"	200 m <sup>2</sup>
GEOTEXTILE FABRIC, TYPE "C"	285 m <sup>2</sup>

NON-BID ITEMS	AMOUNT
FILLER	19 SIZE



BRIDGE OFFICE CONTACT:  
 GERRY ANDERSON  
 (608)-266-8488  
 CONSULTANT CONTACT:  
 TODD STEVENS  
 (715)-834-3161

ALL DIMENSIONS ARE IN MILLIMETERS.  
 ALL ELEVATIONS ARE IN METERS.

No.	Date	Revision	By
PLANS PREPARED BY			
Engineers/Architects Scientists/Surveyors 3433 Oakwood Hills Parkway Eau Claire, WI 54601			
STATE OF WISCONSIN DEPARTMENT OF TRANSPORTATION			
STRUCTURE B-32-186			
C.T.H. "B" OVER BRANCH OF CREAMERY CREEK			
County	LaCROSSE	Township	BANGOR
Design Spec.	A.A.S.H.T.O. '96	Load	MS18
Designed By	PWD	Design Checked	RCK
Drawn By	GLD	Plans Checked	TRS
Approved	State Bridge Engineer		
GENERAL PLAN			SHEET 1 OF 7

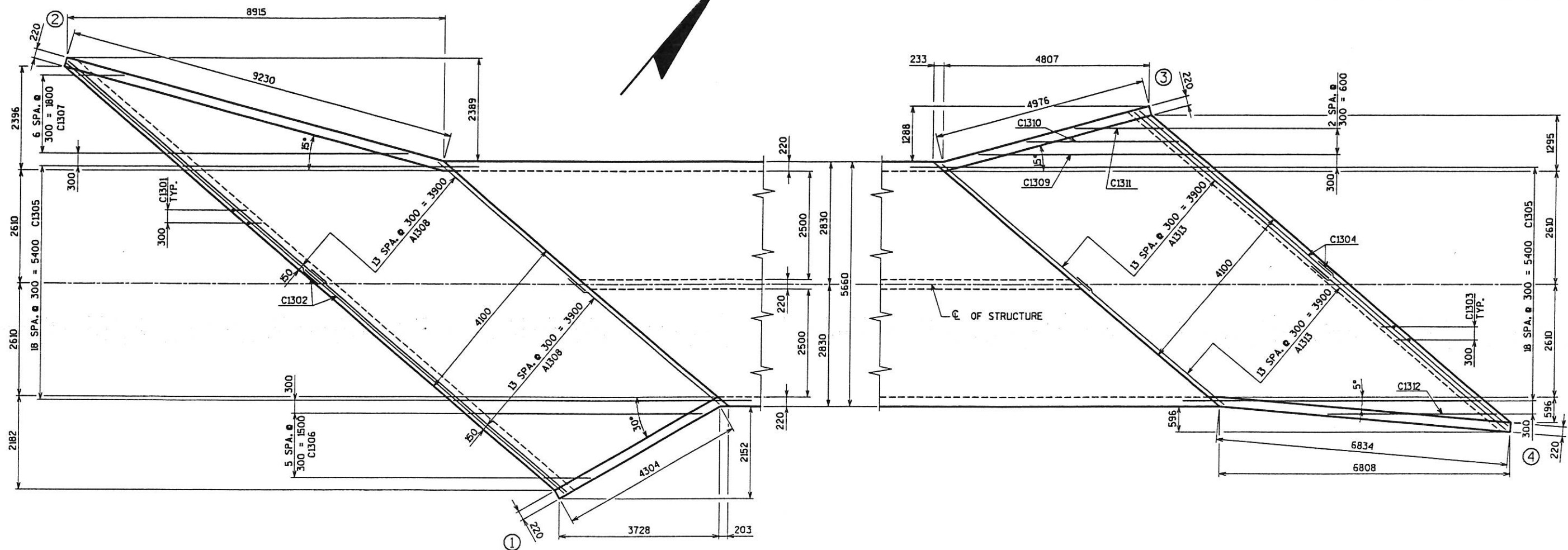
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04 - 143

23/04/2004  
14/02/2004

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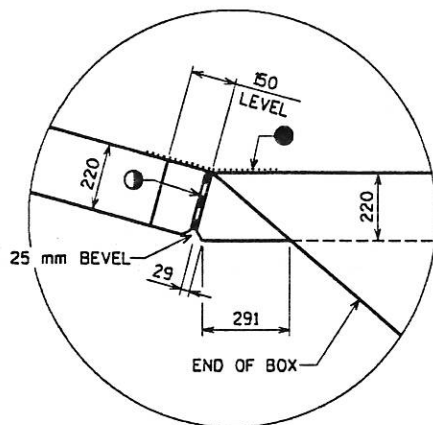
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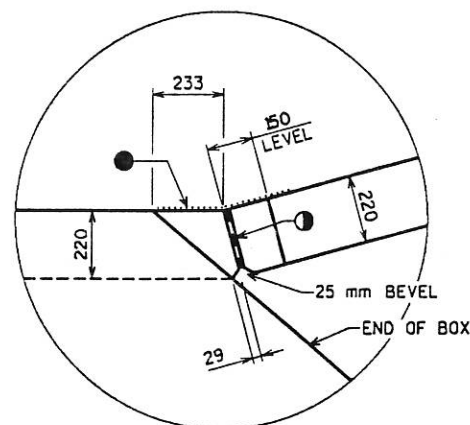
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OUTLET

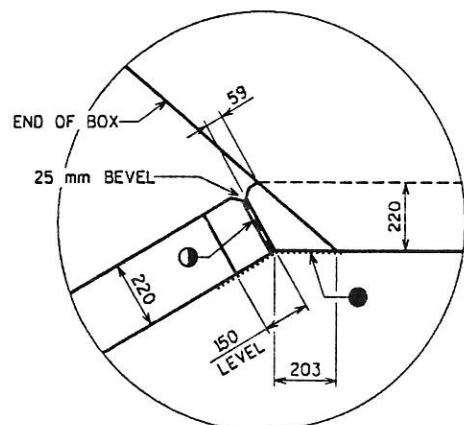
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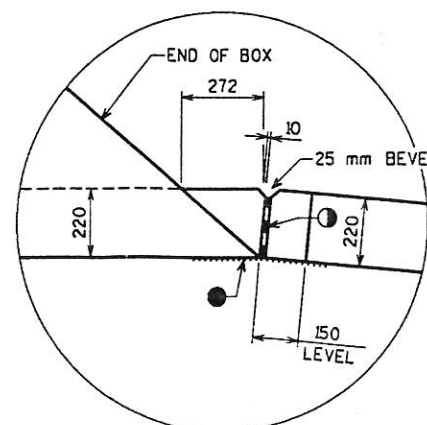
WING 2



WING 3



WING 1



WING 4

NOTE:  
 DO NOT RUN ANY  
 BAR STEEL REINF.  
 THRU JOINT FILLER

CORNER DETAILS

- 457 mm RUBBERIZED MEMBRANE WATERPROOFING TO EXTEND FROM HORIZONTAL CONSTRUCTION JOINT TO TOP OF WING.
- ① 19 mm FILLER TO EXTEND FROM HORIZONTAL CONSTRUCTION JOINT TO TOP OF WING.

ALL DIMENSIONS ARE IN MILLIMETERS.

No.	Date	Revision	By
PLANS PREPARED BY			
<b>AYRES ASSOCIATES</b> Engineers/Architects Scientists/Surveyors 3433 Oakwood Hills Parkway Eau Claire, WI 54701			
STATE OF WISCONSIN DEPARTMENT OF TRANSPORTATION			
STRUCTURE B-32-186			
Const. Svc.	1996	Drawn By	GLO
		Plans Checked	PWD
APRON DETAILS			SHEET 2 OF 7

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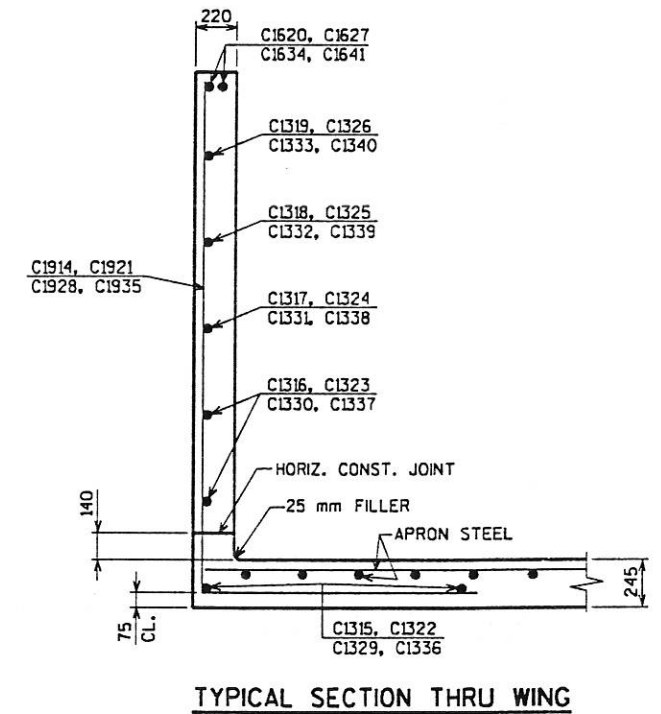
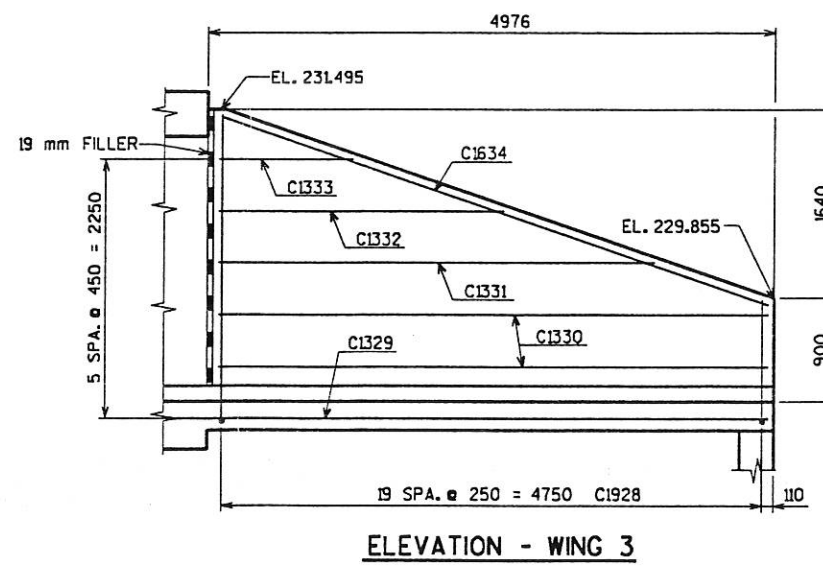
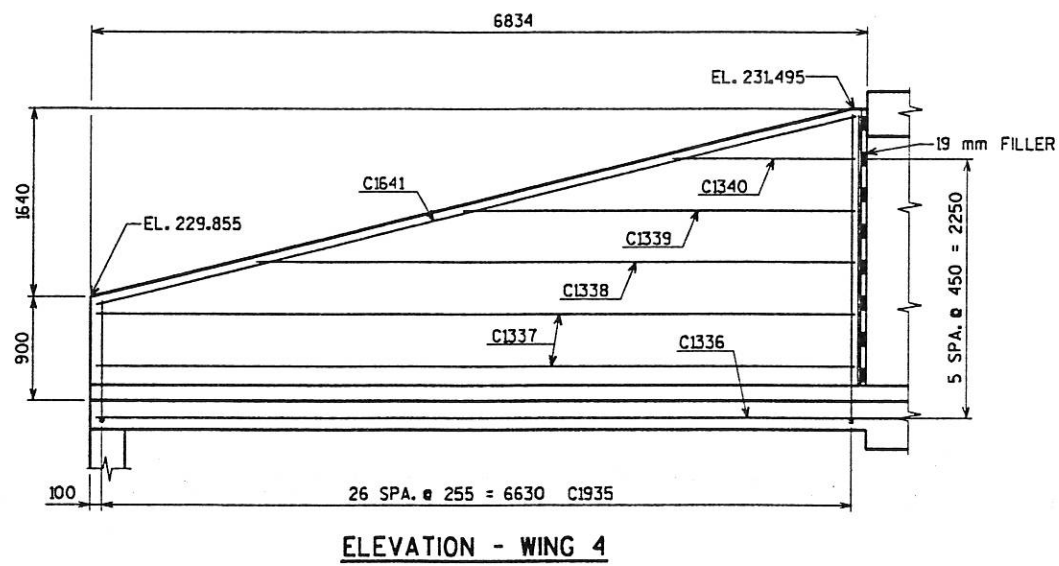
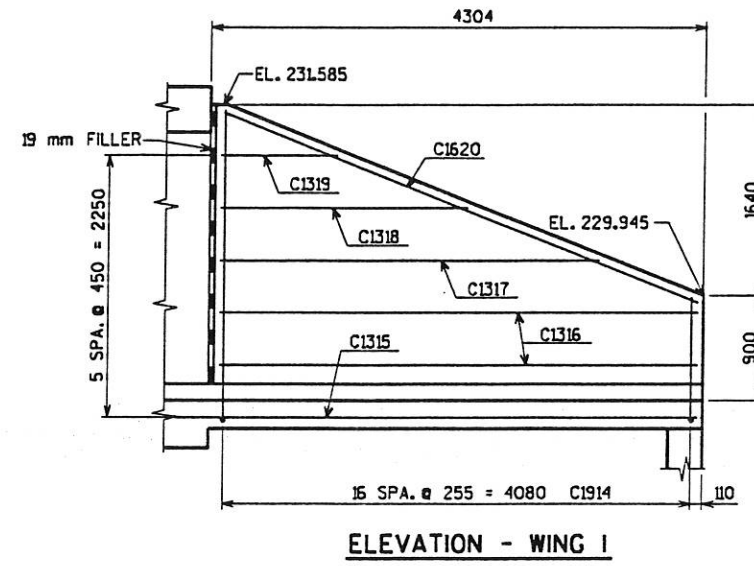
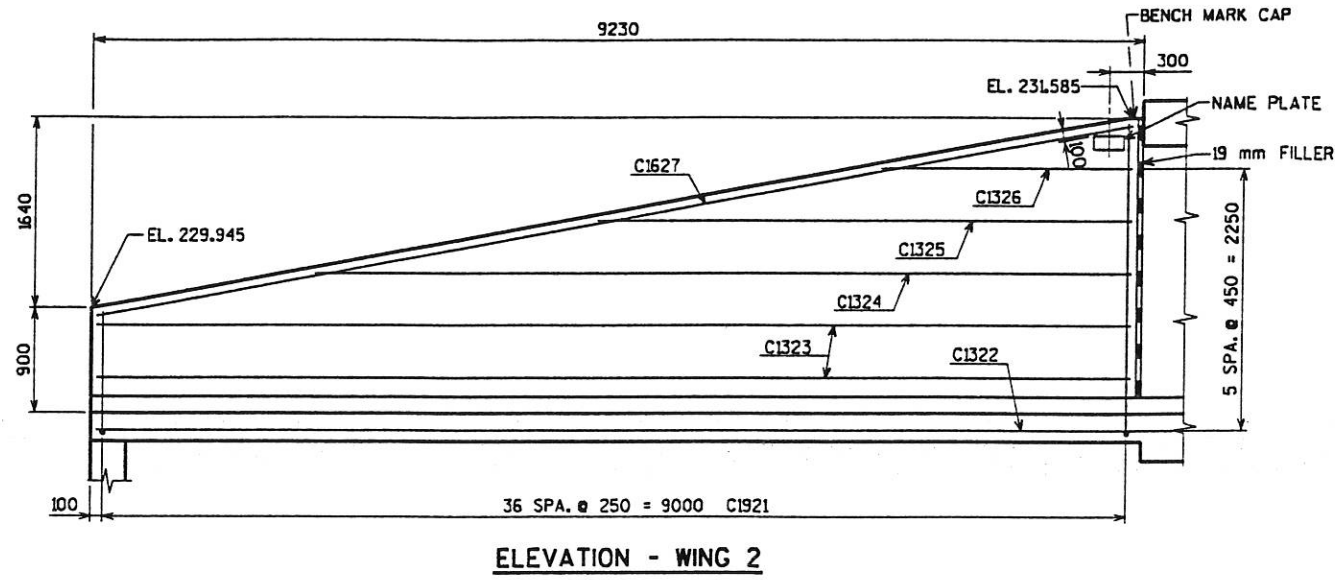
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08 - 1-18/97-16-44-43

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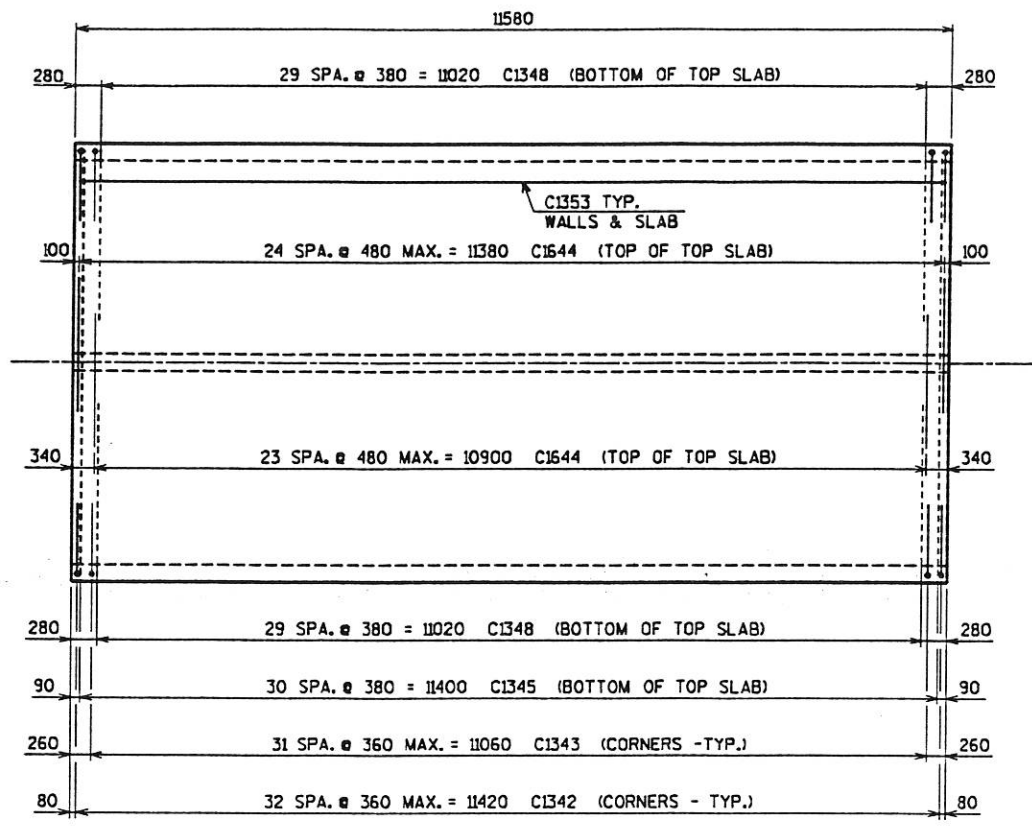


ALL DIMENSIONS ARE IN MILLIMETERS.  
 ALL ELEVATIONS ARE IN METERS.

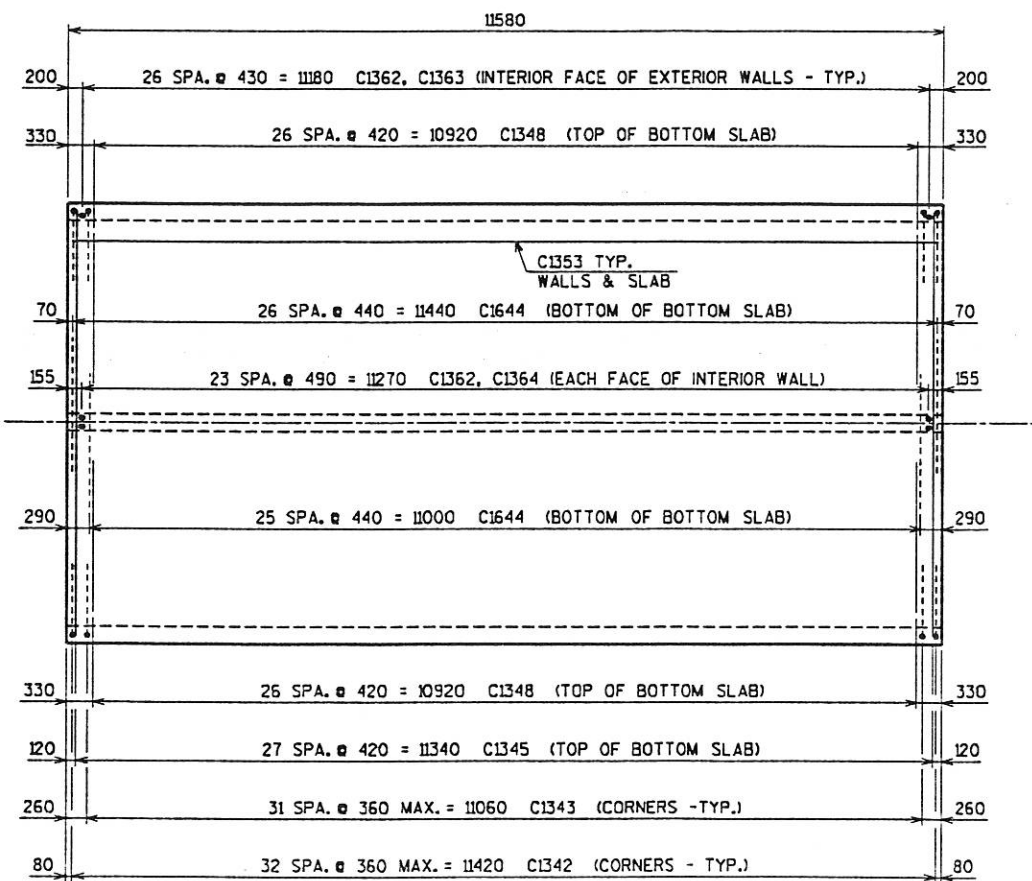
No.	Date	Revision	By
PLANS PREPARED BY			
<b>AYRES ASSOCIATES</b>		Engineers/Architects Scientists/Surveyors 3433 Oakwood Hills Parkway Eau Claire, WI 54701	
STATE OF WISCONSIN DEPARTMENT OF TRANSPORTATION			
STRUCTURE		B-32-186	
Const. Spec.	1996	Drawn By	GLO
		Plans Checked	PWD
WING DETAILS			SHEET 3 OF 7

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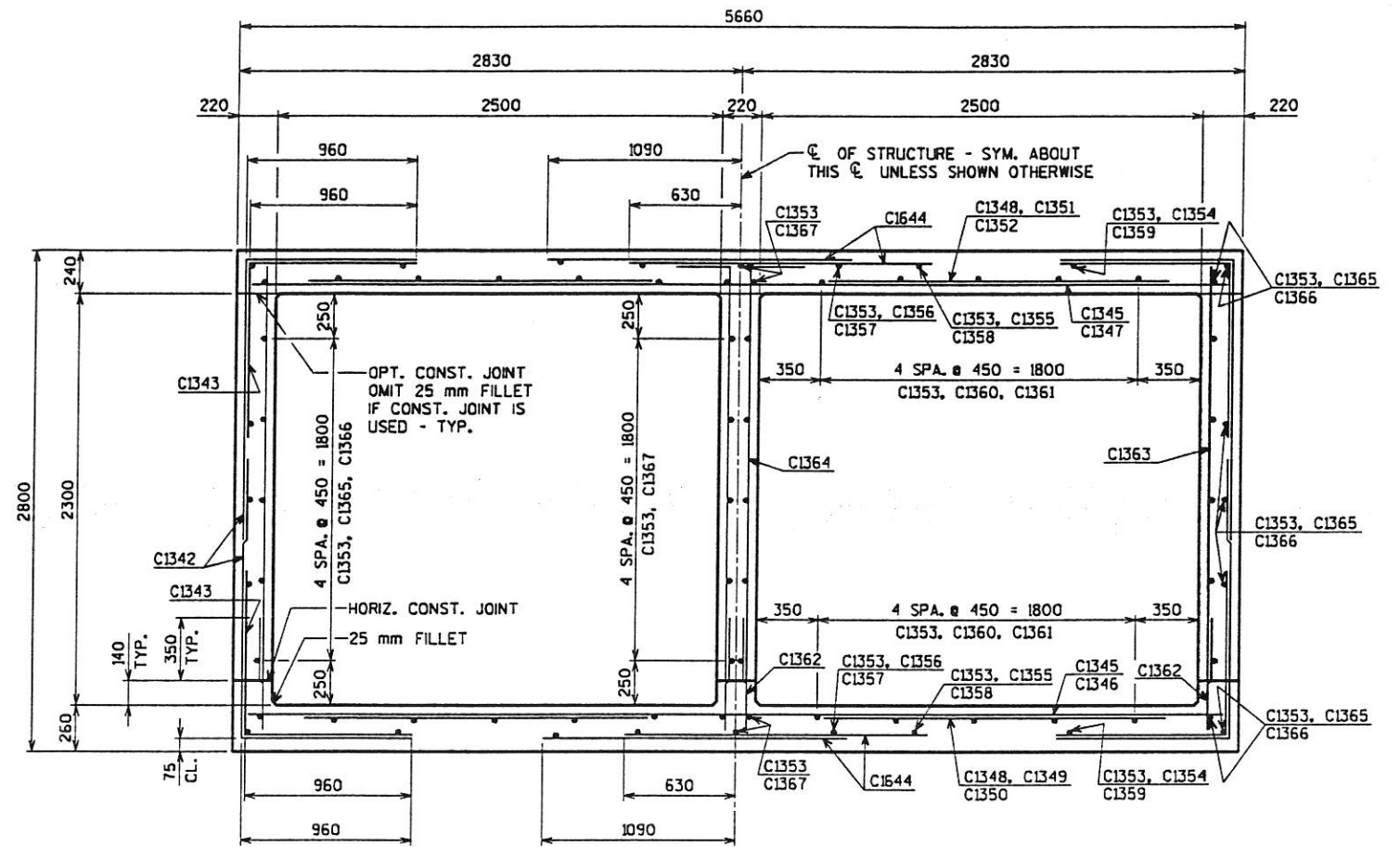
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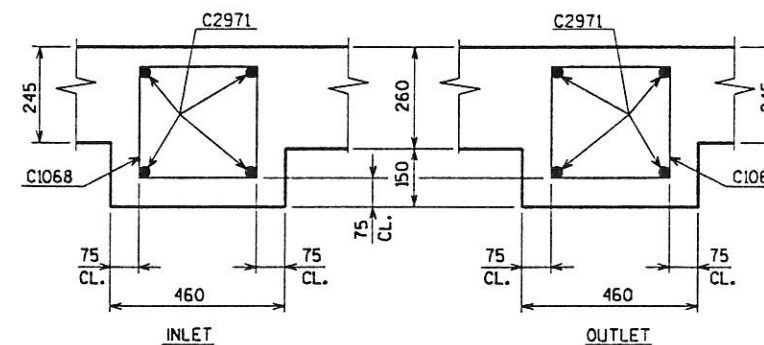
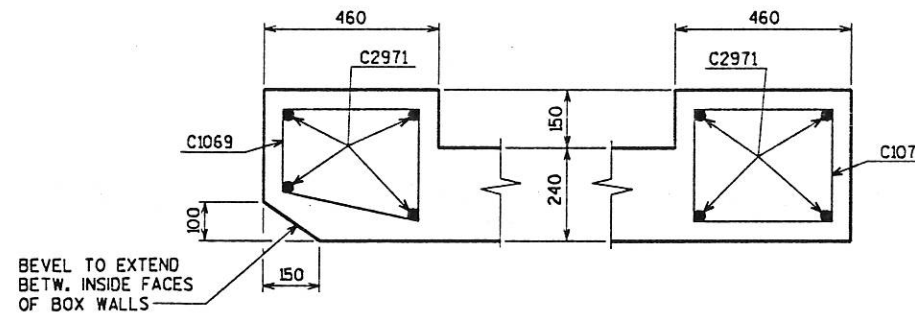
BOX BAR STEEL LAYOUT - MIDDLE PANEL TOP SLAB



BOX BAR STEEL LAYOUT - MIDDLE PANEL BOTTOM SLAB



TYPICAL SECTION THRU BOX  
(TAKEN NORMAL TO BOX)



HEADER DETAIL  
TAKEN NORMAL TO END OF BOX

ALL DIMENSIONS ARE IN MILLIMETERS.

No.	Date	Revision	By
PLANS PREPARED BY			
<b>AVRES ASSOCIATES</b> Engineers/Architects Scientists/Surveyors 3433 Oakwood Hills Parkway Eau Claire, WI 54701			
STATE OF WISCONSIN DEPARTMENT OF TRANSPORTATION			
STRUCTURE B-32-186			
Const. Spec.	1996	Drawn By	610
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BOX DETAILS			SHEET 4 OF 7

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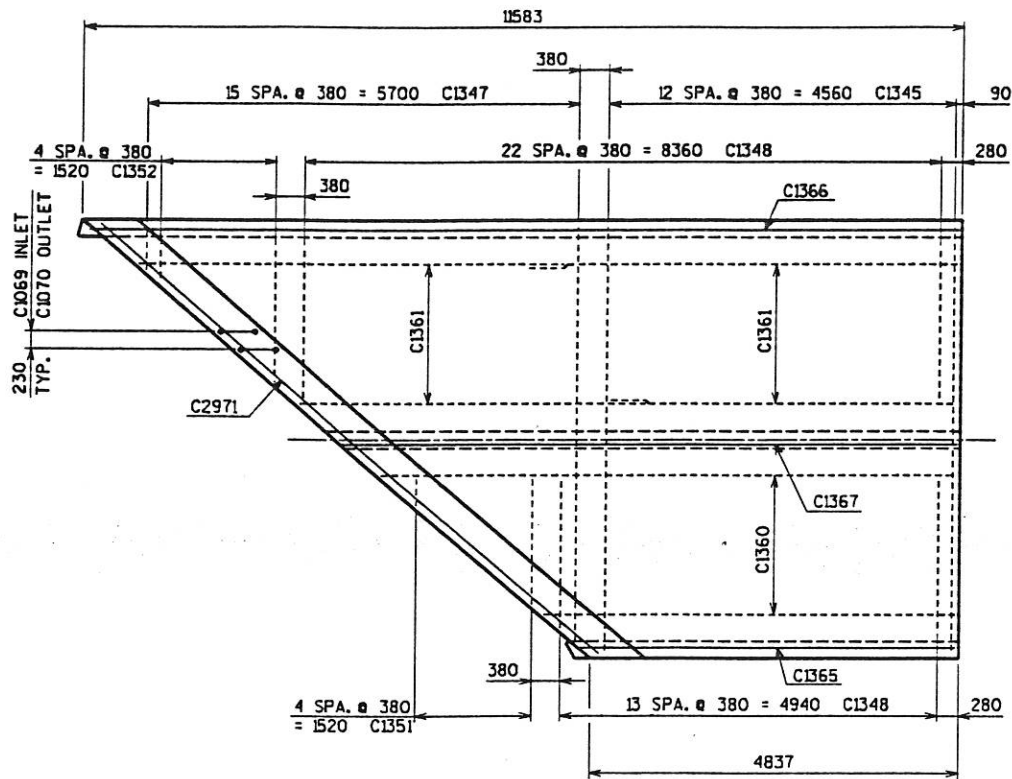
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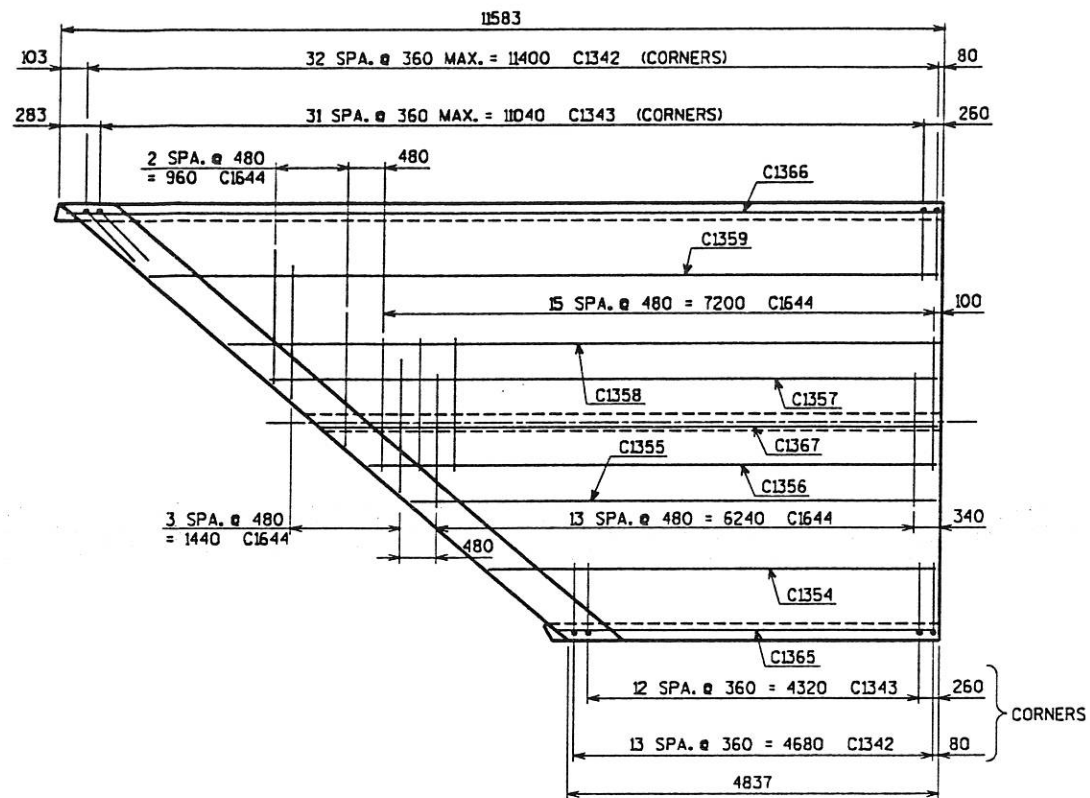
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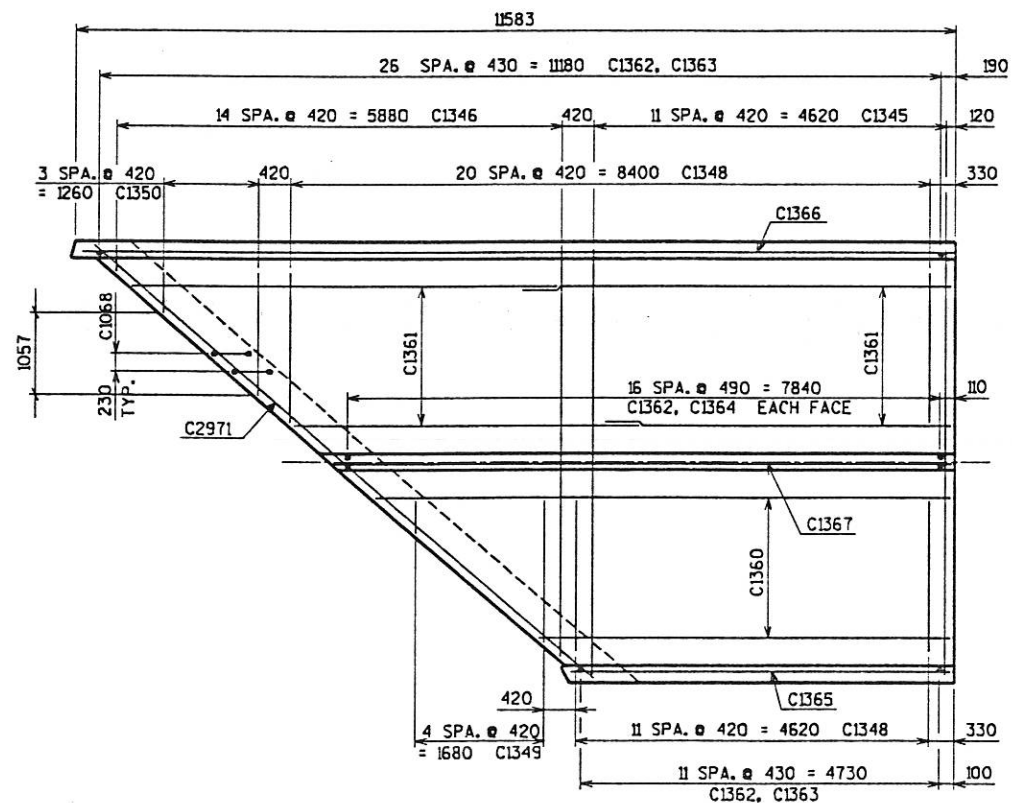
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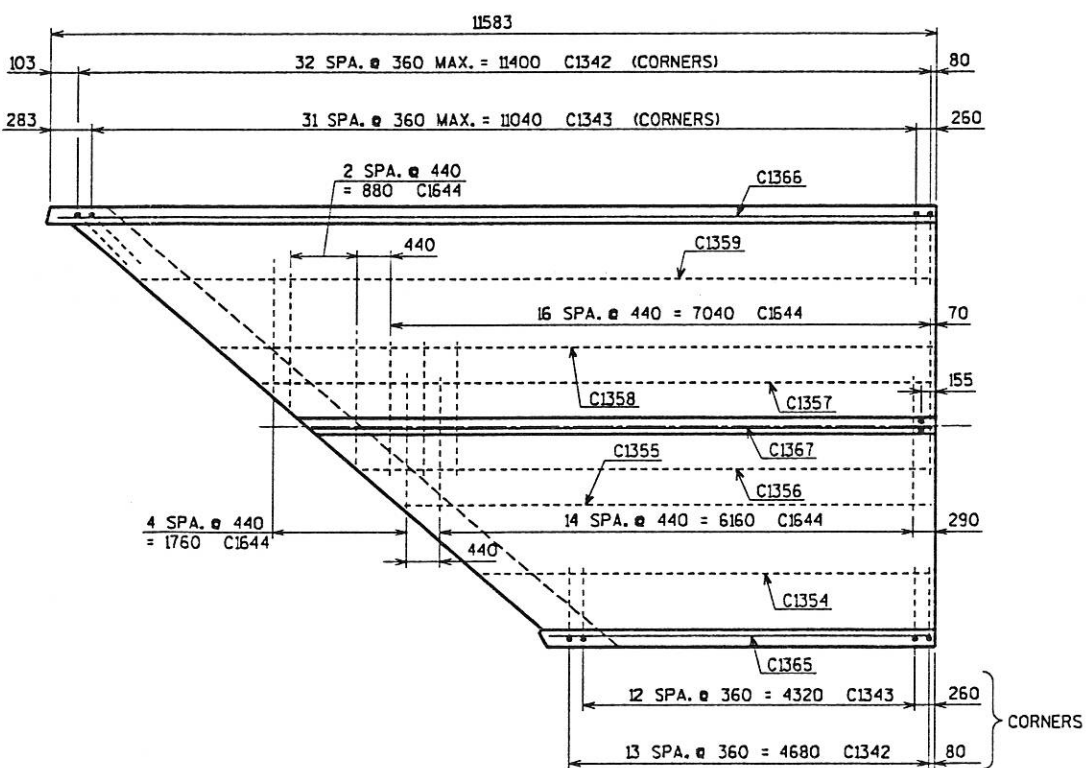
BOX BAR STEEL LAYOUT - END PANEL TOP SLAB - BOTTOM STEEL



BOX BAR STEEL LAYOUT - END PANEL TOP SLAB - TOP STEEL



BOX BAR STEEL LAYOUT - END PANEL BOTTOM SLAB - TOP STEEL



BOX BAR STEEL LAYOUT - END PANEL BOTTOM SLAB - BOTTOM STEEL

ALL DIMENSIONS ARE IN MILLIMETERS.

No.	Date	Revision	By
PLANS PREPARED BY			
<b>AVRES ASSOCIATES</b> Engineers/Architects Scientists/Surveyors 3433 Oakwood Hills Parkway Eau Claire, WI 54701			
STATE OF WISCONSIN DEPARTMENT OF TRANSPORTATION			
STRUCTURE		B-32-186	
Const. Spec.	1996	Drawn By	GLO
		Plans Checked	PWD
BOX DETAILS SLAB STEEL LAYOUT			SHEET 5 OF 7

REFERENCE FILES

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 BACK CHECKED BY:  
 DATE:  
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04 - 1-63

ms10a01.dgn

04 - 1-28-97-16-48-43

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