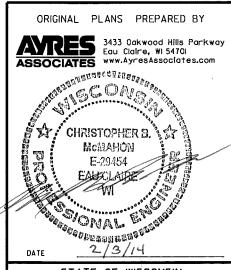
**JUNE 2014** STATE OF WISCONSIN ORDER OF SHEETS Section No. 1 Title DEPARTMENT OF TRANSPORTATION Section No. 2 Typical Sections and Details (Includes Erosion Control Plans) Section No. 3 Estimate of Quantities PLAN OF PROPOSED IMPROVEMENT Section No. 3 Miscellaneous Quantities Section No. 5 Plan and Profile SPOONER - STONE LAKE Section No. 6 Standard Detail Drawings Section No. 7 Sign Plates Section No. 8 Structure Plans YELLOW RIVER BRIDGE C-65-0001 Section No. 3 Computer Earthwork Date **STH 70** TOTAL SHEETS = 36 **WASHBURN COUNTY** WASHBURN COUNTY STATE PROJECT NUMBER 8130-00-71 R-13-₩ R-12-W PROJECT LOCATION **BEGIN PROJECT** DESIGN DESIGNATION STA. 9+70 END PROJECT Y = 566792.26 X = 746759.80 5,600 A.D.T. (2014) STA. 10+30 A.D.T. (2034) 6,800 Y = 566767.77 X = 746814.58 D.H.V. 620 D. 59/41 12.9% = 60 MPH DESIGN SPEED ESALS N/A CONVENTIONAL SYMBOLS T-39-N T-38-N 11111111 CORPORATE LIMITS PROFILE GRADE LINE -STRUCTURE C-65-1 PROPERTY LINE PL + 58.1 ORIGINAL GROUND LOT LINE MARSH OR ROCK PROFILE LIMITED HIGHWAY EASEMENT (To be noted as such) EXISTING RIGHT OF WAY \_\_ LABEL\_\_\_ 53 SPECIAL DITCH PROPOSED OR NEW R/W LINE GRADE ELEVATION SLOPE INTERCEPT CULVERT (Profile View) REFERENCE LINE EXISTING CULVERT UTILITIES PROPOSED CULVERT OVERHEAD (Box or Pipe) ELECTRIC FIBER OPTIC COMBUSTIBLE FLUIDS LAYOUT GAS SCALE L SANITARY SEWER STORM SEWER HIGH VOLTAGE CAUTION TELEPHONE WATER TOTAL NET LENGTH OF CENTERLINE = 0.011 MI. MARSH AREA UTILITY PEDESTAL Д COORDINATES ON THIS PLAN ARE REFERENCED TO THE WISCONSIN COUNTY COORDINATE SYSTEM (WCCS). POWER POLE Ġ Ø WOODED OR SHRUB AREA TELEPHONE POLE U:\42-0915.00 - Washburn Co. STH 70 Rehabilitation\RDWY\420915ti.dgn 2/3/2014 PENTABLE:BRequ\_shd\_util.tbl BRIDGE

FEDERAL PROJECT STATE PROJECT **PROJECT** CONTRACT 8130-00-71 \_\_



#### STATE OF WISCONSIN DEPARTMENT OF TRANSPORTATION

PREPARED BY Surveyor

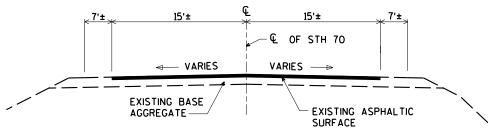
AYRES ASSOCIATES INC Designer Project Manager

DANIEL OJIBWAY Regional Engineer ANDREW STENSLAND Regional Supervisor

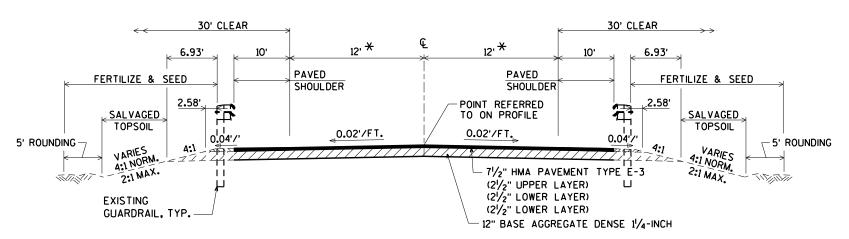
APPROVED FOR THE DEPARTMENT

AYRES ASSOCIATES INC

BETH CUNNINGHAM



# TYPICAL EXISTING SECTION (STH 70)



# TYPICAL FINISHED SECTION (STH 70)

#### GENERAL NOTES

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

NO TREES AND/OR SHRUBS 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, EXCLUSIVE OF THE ROADBED. SHALL BE FERTILIZED AND SEEDED AS DIRECTED BY THE ENGINEER.

SEED MIXTURE NO. 20 SHALL BE USED IN THE PROJECT AND SHALL BE PLACED AS SHOWN IN THE PLANS AND/OR AS DIRECTED BY THE ENGINEER.

SILT FENCE IS TO BE PLACED AS SHOWN ON THE PLAN, OR AS DIRECTED BY THE ENGINEER. SILT FENCE TO BE PLACED PRIOR TO CONSTRUCTION AND IN PLACE PRIOR TO BRIDGE REMOVAL.

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

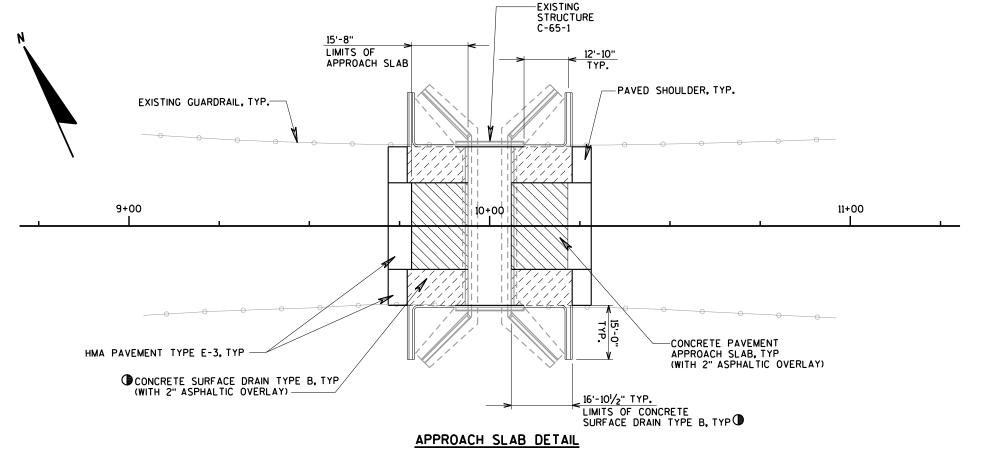
ELEVATIONS SHOWN ON THIS PLAN ARE REFERENCED TO THE NORTH AMERICAN VERTICAL DATUM (NAVD) 1988.

SHRINKAGE IS ESTIMATED AT 30%

TYPICAL SECTIONS, GENERAL NOTES

<sup>\*</sup> THE HMA PAVEMENT TYPE E-3 SHALL BE PLACED 44 FEET WIDE AT THE ENDS OF THE APPROACH SLAB AND CONCRETE SURFACE DRAINS, AND FOLLOW THE FACE OF EXISTING GUARDRAIL.





NOTE: ASPHALTIC OVERLAY WILL EXTEND OVER THE CONCRETE PAVEMENT APPROACH SLAB AND CONCRETE SURFACE DRAINS. TAPER OVERLAY DOWN AT CURBS ON CONCRETE SURFACE DRAINS

CONCRETE SURFACE DRAINS TO BE REINFORCED SIMILAR TO CONCRETE PAVEMENT APPROACH SLAB.

HWY: STH 70

#### UTILITIES

WE ENERGIES
104 W. SOUTH ST.
RICE LAKE, WI 54868
ATTN: LEWIS KNAPP
715-234-9605
715-419-2196 (cell)
lewis.knapp@we-energies.com

CENTURYLINK
20 S. WILSON AVE.
RICE LAKE, WI 54868
ATTN: REED LECHNIR
715-234-5526
715-418-0029
reed.lechnir@centurytel.com

CHARTER COMMUNICATIONS 2304 S. MAIN ST. RICE LAKE, WI 54868 ATTN: THOMAS HAASE 715-234-5341 ext. 252

\* \* DENOTES UTILITIES THAT ARE NOT DIGGERS HOTLINE MEMBERS



Dial or (800) 242-8511 www.DiggersHotline.com

#### ABBREVIATIONS

ΔC. **ACRES** CHIS CHISELED CENTERLINE COR CORNER CWT COUNT CY EL GAL CUBIC YARD ELEVATION GALLON H IP LB HOUSE IRON PIPE POUND LF LS LT MAX LINEAR FEET LUMP SUM LEFT MAXIMUM MIN MINIMUM MON MONUMENT NORM NORMAL OAL OVERALL LENGTH PC PD POINT OF CURVATURE PEDESTAL PI PK POINT OF INTERSECTION PARKER-KALON PROPERTY LINE PLE PERMANENT LIMITED EASEMENT POWER POLE РΤ POINT OF TANGENCY RADIUS REO'D REQUIRED RT RIGHT RIGHT-OF-WAY R/W SQUARE FEET SF SHLDR SHOULDER STA STATION SY SQUARE YARD TLE TEMPORARY LIMITED EASEMENT

#### RAILROAD

WISCONSIN GREAT NORTHERN RAILROAD P.O. BOX 46 SPOONER, WI 54801 ATTN: GREG VREELAND 715-635-3200 greg@spoonertrainride.com

#### DESIGNER

AYRES ASSOCIATES
3433 OAKWOOD HILLS PARKWAY
EAU CLAIRE, WI 54701
ATTN: CHRIS McMAHON
715-834-3161
mcmahonc@AyresAssociates.com

# WISCONSIN DEPARTMENT OF NATURAL RESOURCES CONTACT:

SHAWN HASELEU 810 W. MAPLE STREET SPOONER, WI 54801 715-635-4228 shawn.haseleu@wisconsin.gov

CONSTRUCTION DETAILS, UTILITIES, ABBREVIATIONS

VARIES

BRIDGE

WELL

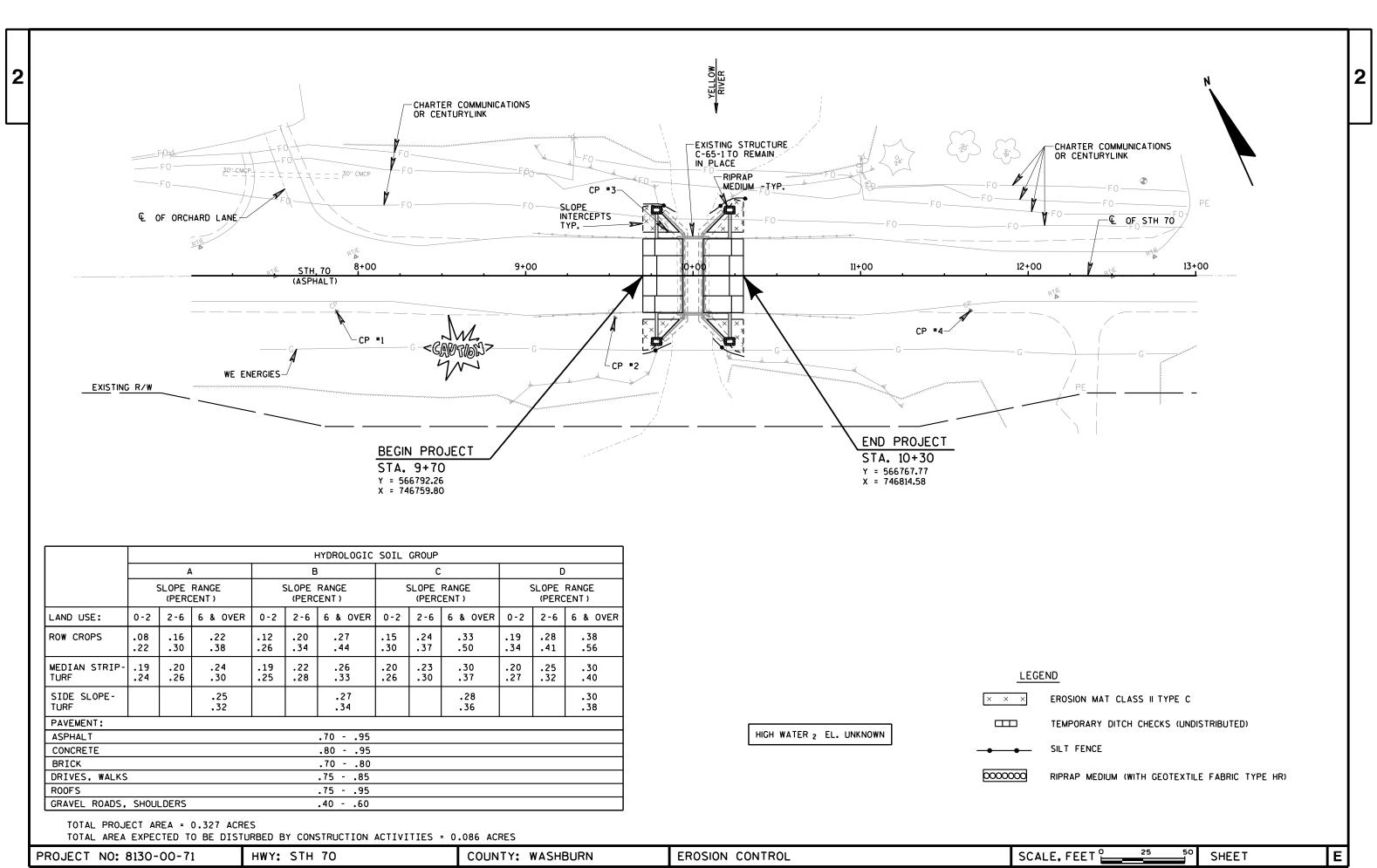
VAR WL

SHEET

Т

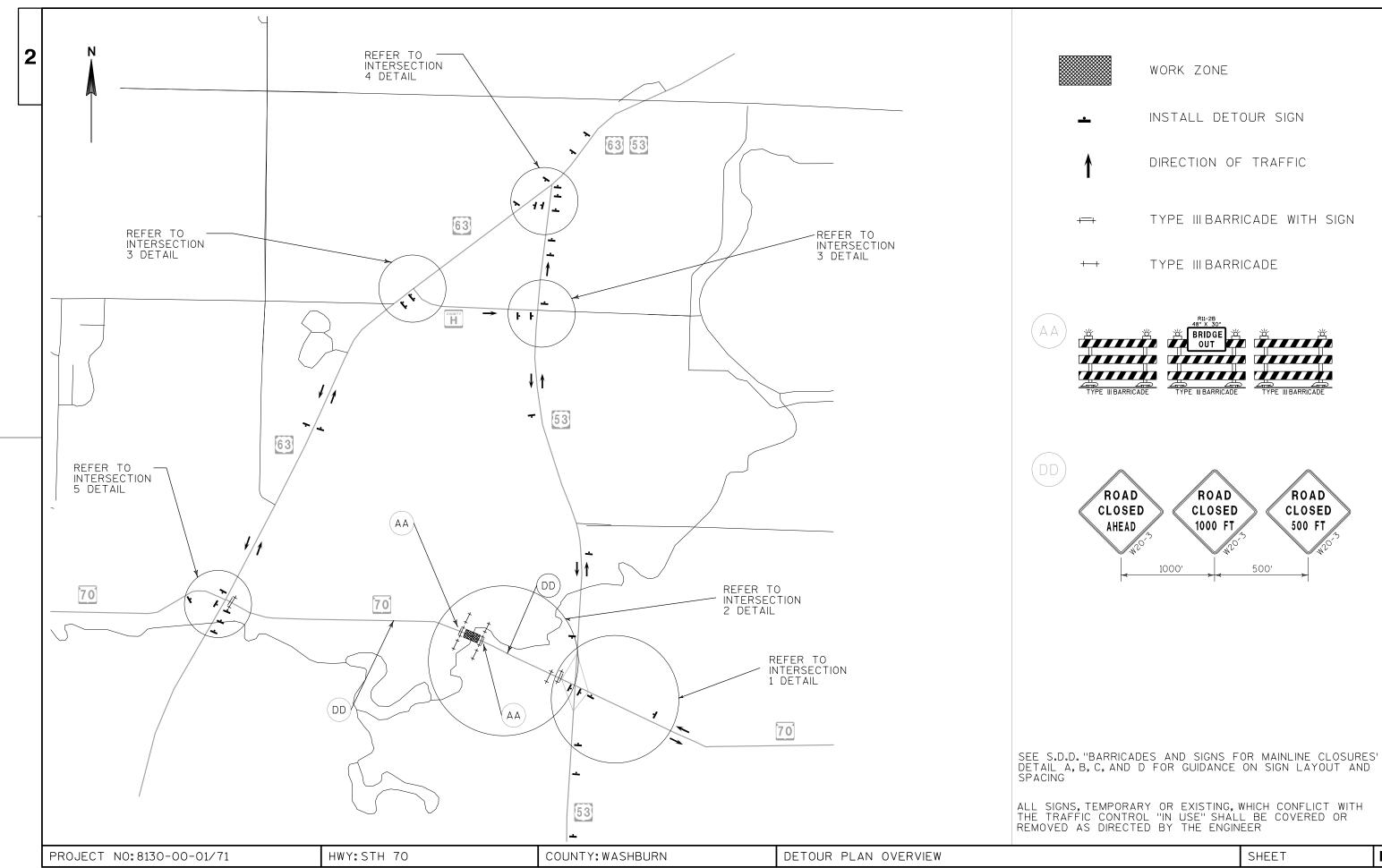
PROJECT NO: 8130-00-71

COUNTY: WASHBURN



BRIDGE





FILE NAME: K:\42091500\Traffic\STH70\_Detour\_YellowRiverBridge\_140115.dgn

PLOT DATE : 2/21/2014

PLOT BY: hickmant

PLOT NAME :

PLOT SCALE: 1:200

WISDOT/CADDS SHEET 42

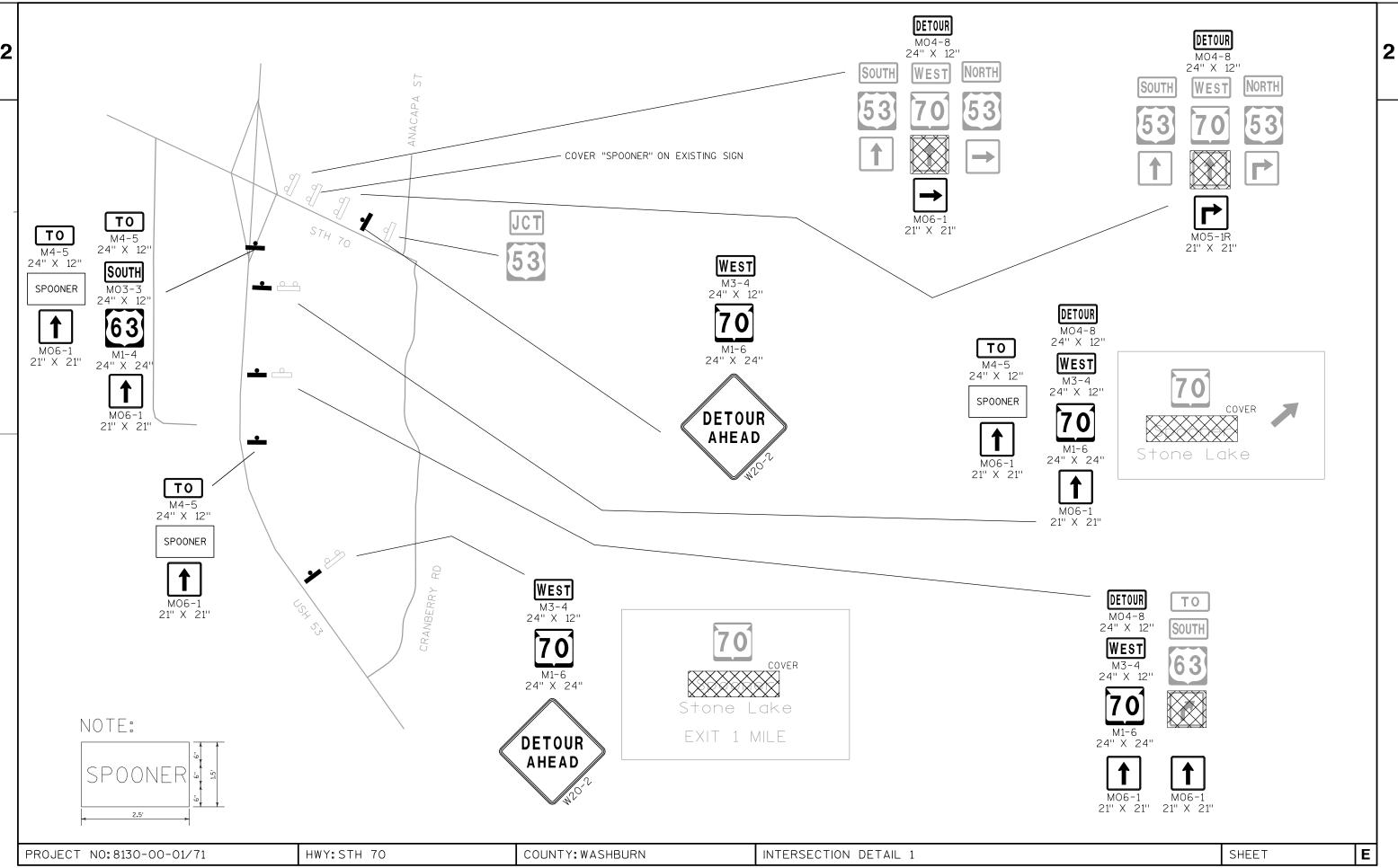
Ε

ROAD

CLOSED

500 FT

500'



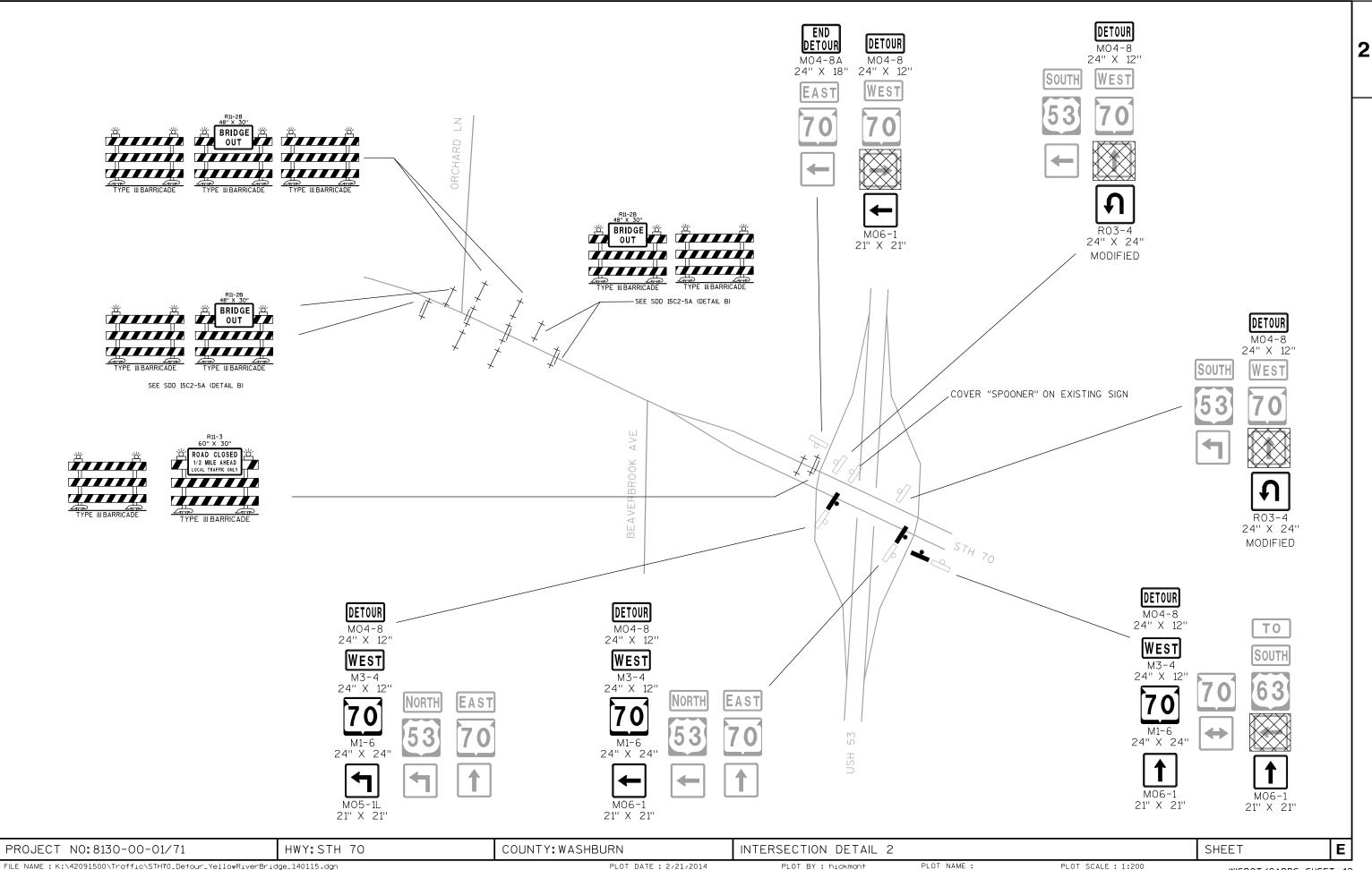
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PLOT DATE: 2/21/2014

PLOT BY: hickmant

PLOT NAME :

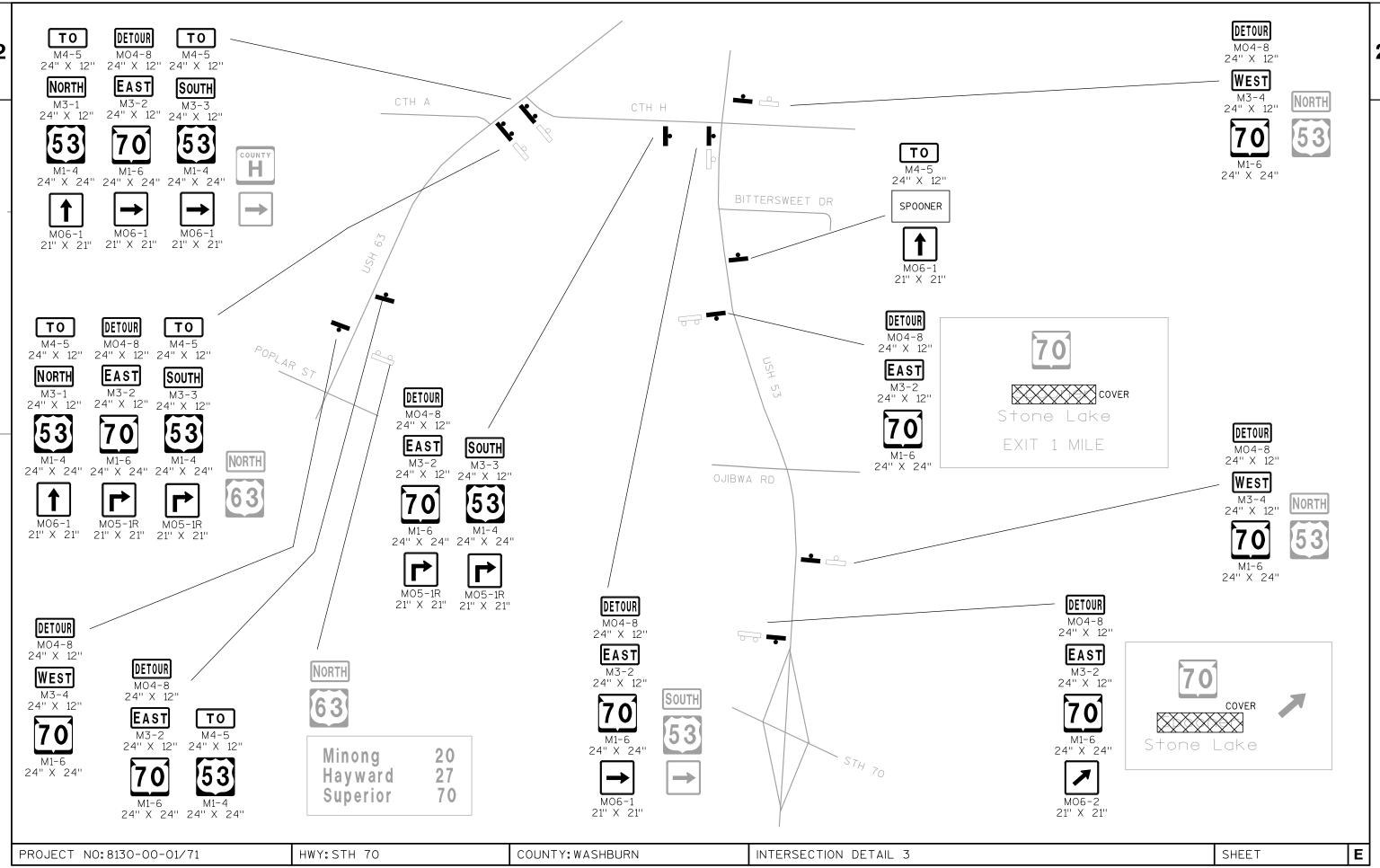
WISDOT/CADDS SHEET 42

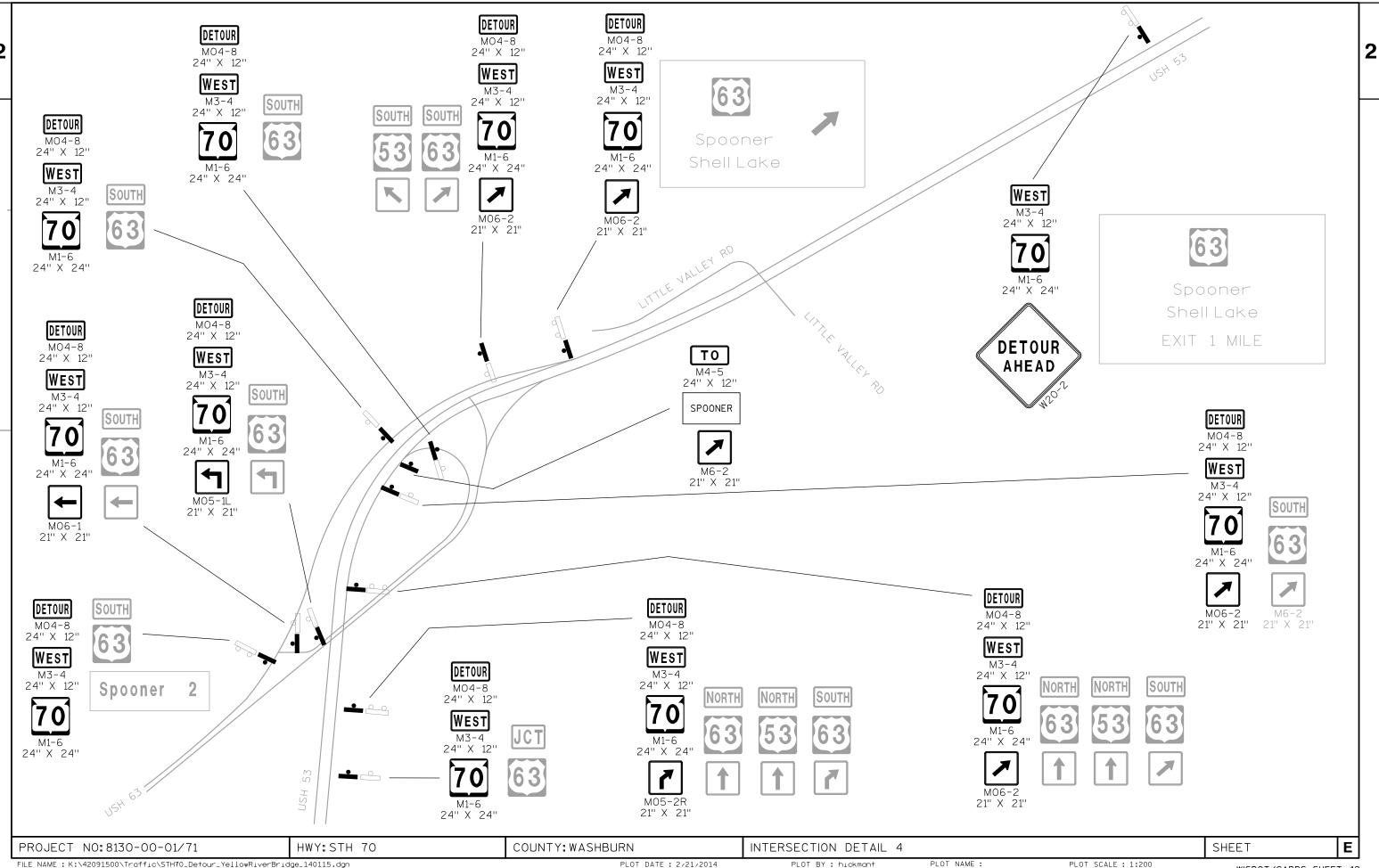


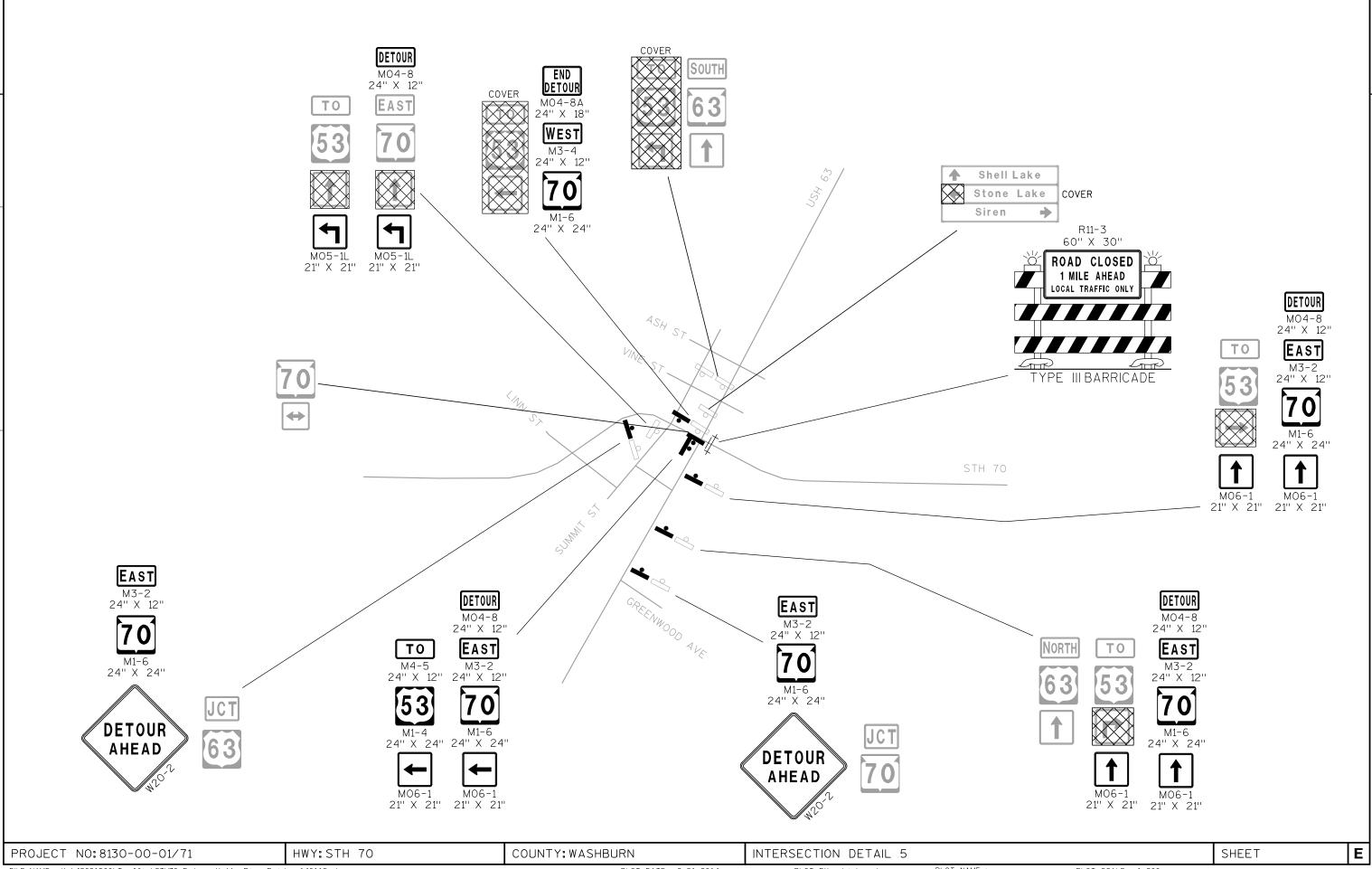
PLOT BY: hickmant

PLOT SCALE: 1:200

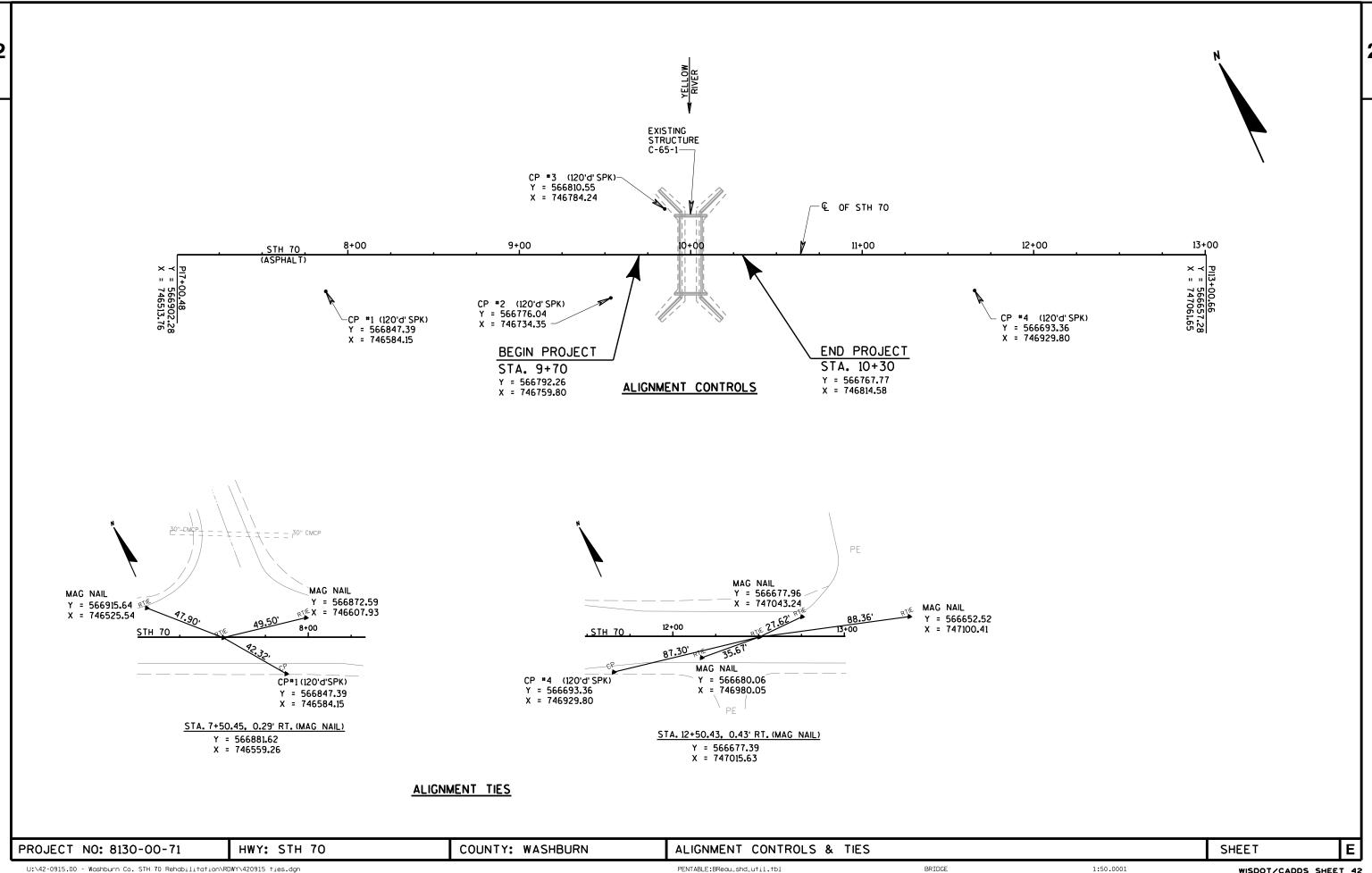
WISDOT/CADDS SHEET 42







2



DATE 04	APR14	E S T	IMAT	E OF QUAN	
LI NE NUMBER 0010	I TEM 204. 0120	ITEM DESCRIPTION REMOVING ASPHALTIC SURFACE MILLING	UNI T SY	TOTAL 230. 000	8130-00-71 QUANTI TY 230. 000
0020 0030	205. 0100 213. 0100	EXCAVATION COMMON FINISHING ROADWAY (PROJECT) 01. 8130-00-71	CY EACH	130. 000 1. 000	130. 000 1. 000
0040 0050	305. 0120 415. 0410	BASE AGGREGATE DENSE 1 1/4-INCH CONCRETE PAVEMENT APPROACH SLAB	TON SY	120. 000 84. 000	120. 000 84. 000
0060	416. 1010	CONCRETE SURFACE DRAINS	CY	22. 000	22. 000
0070 0080	455. 0145 455. 0605	ASPHALTIC MATERIAL PG64-34P TACK COAT	TON GAL	3. 600 16. 000	3. 600 16. 000
0090	460. 1103	HMA PAVEMENT TYPE E-3	TON	65.000	65.000
0100	465. 0115	ASPHALTIC SURFACE DETOURS	TON	30. 000	30. 000
0110 0120	509. 0301 509. 0302	PREPARATION DECKS TYPE 1 PREPARATION DECKS TYPE 2	SY SY	7. 000 2. 000	7. 000 2. 000
0120	509. 0302	CURB REPAIR	LF	7. 000	7. 000
0140	509. 2000	FULL-DEPTH DECK REPAIR	SY	1.000	1.000
0150	509. 9010. 3	S REMOVING ASPHALTIC CONCRETE DECK OVERLAY (STRUCTURE) 01. C-65-0001	SY	60. 000	60. 000
0160	606. 0200	RI PRAP MEDI UM	CY	6.000	6.000
0170	618. 0100	MAINTENANCE AND REPAIR OF HAUL ROADS (PROJECT) 01. 8130-00-71	EACH	1. 000	1. 000
0180	619. 1000	MOBI LI ZATI ON	EACH	1.000	1.000
0190 0200	625. 0500 628. 1504	SALVAGED TOPSOIL SILT FENCE	SY LF	150. 000 120. 000	150. 000 120. 000
0210	628. 1520	SILT FENCE MAINTENANCE	LF	120. 000	120. 000
0220	628. 1905	MOBILIZATIONS EROSION CONTROL	EACH	2.000	2.000
0230 0240	628. 1910 628. 2027	MOBILIZATIONS EMERGENCY EROSION CONTROL EROSION MAT CLASS II TYPE C	EACH SY	2. 000 135. 000	2. 000 135. 000
0250	628. 7504	TEMPORARY DITCH CHECKS	LF	50. 000	50. 000
0260	629. 0210	FERTILIZER TYPE B	CWT	0. 100	0. 100
0270 0280	630. 0120 634. 0612	SEEDING MIXTURE NO. 20 POSTS WOOD 4X6-INCH X 12-FT	LB EACH	4. 000 1. 000	4. 000 1. 000
0290	637. 2210	SIGNS TYPE II REFLECTIVE H	SF	6. 000	6. 000
0300	638. 2602	REMOVING SIGNS TYPE II	EACH	2. 000	2. 000
0310	642. 5001	FIELD OFFICE TYPE B	EACH	1.000	1.000
0320 0330	643. 0100 643. 0420	TRAFFIC CONTROL (PROJECT) 01. 8130-00-71 TRAFFIC CONTROL BARRICADES TYPE III	EACH DAY	1. 000 325. 000	1. 000 325. 000
0340	643. 0705	TRAFFIC CONTROL WARNING LIGHTS TYPE A	DAY	650.000	650.000
0350	643. 0900	TRAFFIC CONTROL SIGNS	DAY	275. 000	275. 000
0360	643. 0910	TRAFFIC CONTROL COVERING SIGNS TYPE I	EACH	3.000	3.000
0370 0380	643. 0920 643. 1000	TRAFFIC CONTROL COVERING SIGNS TYPE II TRAFFIC CONTROL SIGNS FIXED MESSAGE	EACH SF	3. 000 15. 000	3. 000 15. 000
0390	643. 2000	TRAFFIC CONTROL DETOUR (PROJECT) 01.	EACH	1. 000	1. 000
0400	643. 3000	8130-00-71 TRAFFIC CONTROL DETOUR SIGNS	DAY	4, 650. 000	4, 650. 000
0410	645. 0130	GEOTEXTILE FABRIC TYPE R	SY	30.000	30.000
0420 0430	646. 0106 650. 4500	PAVEMENT MARKING EPOXY 4-INCH CONSTRUCTION STAKING SUBGRADE	LF LF	135. 000 48. 000	135. 000 48. 000
0430	650. 5000	CONSTRUCTION STAKING SUBGRADE  CONSTRUCTION STAKING BASE	LF	48. 000	48. 000
0450	650. 6500	CONSTRUCTION STAKING STRUCTURE LAYOUT (STRUCTURE) 01. C-65-0001	LS	1. 000	1. 000
0460	650. 9910	CONSTRUCTION STAKING SUPPLEMENTAL	LS	1. 000	1. 000
0470	690. 0150	CONTROL (PROJECT) 01. 8130-00-71 SAWING ASPHALT	LF	148. 000	148. 000
0480	SPV. 0035	SPECIAL 01. CONCRETE MASONRY DECK PATCHING	CY	5. 000	5. 000

DATE 04APR14 LINE		ESTIMATE	OFQUAN	T I T I E S 8130-00-71
NUMBER I TEM 0490 SPV. 0090	ITEM DESCRIPTION SPECIAL O1. SAWING PAVEMENT DECK PREPARATION AREAS	UNI T LF	TOTAL 50. 000	QUANTI TY 50. 000

#### 204.0120 REMOVING ASPHALTIC SURFACE MILLING (CATEGORY 0010)

LOCATION							SY		
	am	_		an a a a tita	/ D.T.T.O.T.T.D	D 0 1 1 mm \	0.0	_	

CTH H @ RR CROSSING (DETOUR ROUTE)

230

NOTE: ALONG THE DETOUR ROUTE, AT CTH H AND THE RAILROAD CROSSING. 30 FEET EACH SIDE OF THE RAILROAD CROSSING AND INBETWEEN THE TRACKS WILL BE MILLED AND OVERLAYED.

#### 205.0100 EXCAVATION COMMON (CATEGORY 0010)

STATION TO STATION	LOCATION	CY	
Sta. 9+70 to Sta. 9+94 Sta. 10+06 to Sta. 10+30	STH 70	65 65	_
TOTAL .		120	=
TOTAL		130	

#### 213.0100 FINISHING ROADWAY (CATEGORY 0010)

LOCATIO	N	EACH		
PROJECT	8130-00-71	1		

#### 305.0120 BASE AGGREGATE DENSE 1 1/4-INCH (CATEGORY 0010)

STATION TO STATION	LOCATION	TON
Sta. 9+70 to Sta. 9+94 Sta. 10+06 to Sta. 10+30	STH 70 STH 70	60 60
TOTALS		120

#### 415.0410 CONCRETE PAVEMENT APPROACH SLAB (CATEGORY 0010)

STATION TO STATION	LOCATION	SY
Sta. 9+78.33 to Sta. 9+94 Sta. 10+06 to Sta. 10+21.67	STH 70 STH 70	42 42
TOTALS		84

#### 416.1010 CONCRETE SURFACE DRAINS (CATEGORY 0010)

STATION TO STATION	LOCATION	CY
Sta. 9+77.13 to Sta. 9+94, RT	STH 70	5.5
Sta. 9+77.13 to Sta. 9+94, LT	STH 70	5.5
Sta. 10+06 to Sta. 10+22.88, RT	STH 70	5.5
Sta. 10+06 to Sta. 10+22.88, LT	STH 70	5.5

TOTALS 22

#### 455.0605 TACK COAT (CATEGORY 0010)

STATION TO STATION	LOCATION	GAL
Sta. 9+70 to Sta. 9+94 Sta. 10+06 to Sta. 10+30	STH 70 STH 70	4
CTH H @ RR CROSSING (DETOUR	ROUTE)	6

NOTE: ALONG THE DETOUR ROUTE, AT CTH H AND THE RAILROAD CROSSING. 30 FEET EACH SIDE OF THE RAILROAD CROSSING AND IN-BETWEEN THE TRACKS WILL BE MILLED AND OVERLAYED.

TOTAL

#### HMA PAVEMENT & ASPHALTIC MATERIAL (CATEGORY 0010)

		460.1103 TYPE E-3	455.0145 PG64-34P
STATION TO STATION	LOCATION	TON	TON
Sta. 9+78.33 to Sta. 9+94 Sta. 10+06 to Sta. 10+21.67	STH 70 STH 70	27.5 27.5	1.5 1.5
TOTAL		55	3

#### 465.0115 ASPHALTIC SURFACE DETOURS (CATEGORY 0010)

LOCATION	TON	
CTH H @ RR CROSSING	(DETOUR ROUTE)	30

NOTE: ALONG THE DETOUR ROUTE, AT CTH H AND THE RAILROAD CROSSING. 30 FEET EACH SIDE OF THE RAILROAD CROSSING AND INBETWEEN THE TRACKS WILL BE MILLED AND OVERLAYED.

#### 606.0200 RIPRAP MEDIUM (CATEGORY 0010)

	STATION TO	STATION	LOCAT	rion	CY
i	Sta. 9+78, Sta. 9+78, Sta. 10+22 Sta. 10+22	LT , RT	STH STH STH STH	70 70	1.5 1.5 1.5 1.5
=					

TOTAL

#### 618.0100 MAINTENANCE AND REPAIR OF HAUL ROADS (CATEGORY 0010)

LOCATION	EACH
	_
PROJECT 8130-00-71	1

#### 619.1000 MOBILIZATION

LOCATION	CATEGORY	EACH	
PROJECT 8130-00-71	0010	0.9	
PROJECT 8130-00-71	0020	0.1	
			_

TOTAL 1

#### SALVAGED TOPSOIL, FERTILIZER & SEED (CATEGORY 0010)

STATION TO STATION	LOCATION	625.0500 SALVAGED TOPSOIL SY	629.0210 FERTILIZER TYPE B CWT	630.0120 SEEDING NO. 20 LB
Sta. 9+70 to Sta. 10+30 Undistributed	STH 70	150 	0.08	3.2
TOTALS		150	0.1	4

#### SILT FENCE & SILT FENCE MAINTENANCE (CATEGORY 0010)

STATION TO STATION	LOCATION	628.1504 LF	628.1520 MAINTENANCE LF
Sta. 9+70 to Sta. 9+90, LT Sta. 9+70 to Sta. 9+90, RT Sta. 10+10 to Sta. 10+30, RT Sta. 10+10 to Sta. 10+30, LT Undistributed	STH 70 STH 70 STH 70 STH 70	25 20 25 25 25	25 20 25 25 25
TOTALS		120	120

PROJECT NO: 8130-00-71 HWY: STH 70 COUNTY: WASHBURN MISCELLANEOUS QUANTITIES SHEET E

EACH

1

643.3000

DETOUR SIGNS

DAY

4,650

4,650

EACH

EACH

186

NO. OF

SIGNS

PROJECT NO: 8130-00-71	HWY: STH 70	COUNTY: WASHBURN	MISCELLANEOUS QUANTITIES	SHEET	<i>:</i>
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## 3

#### 645.0130 GEOTEXTILE FABRIC TYPE R (CATEGORY 0010)

STATION TO STATION	LOCATION	SY
Sta. 9+78, RT Sta. 9+78, LT Sta. 10+22, RT Sta. 10+22, LT	STH 70 STH 70 STH 70 STH 70	7.5 7.5 7.5 7.5

30

#### 646.0106 PAVEMENT MARKING EPOXY 4-INCH (CATEGORY 0010)

TOTAL

STATION TO STATION	LOCATION	DESCRIPTION	LF
Sta. 9+70 to Sta. 10+30	STH 70	WHITE EDGELINE	120
Sta. 9+70 to Sta. 10+30	STH 70	YELLOW DASHED CENTERLINE	15
TOTAL			135

#### CONSTRUCTION STAKING

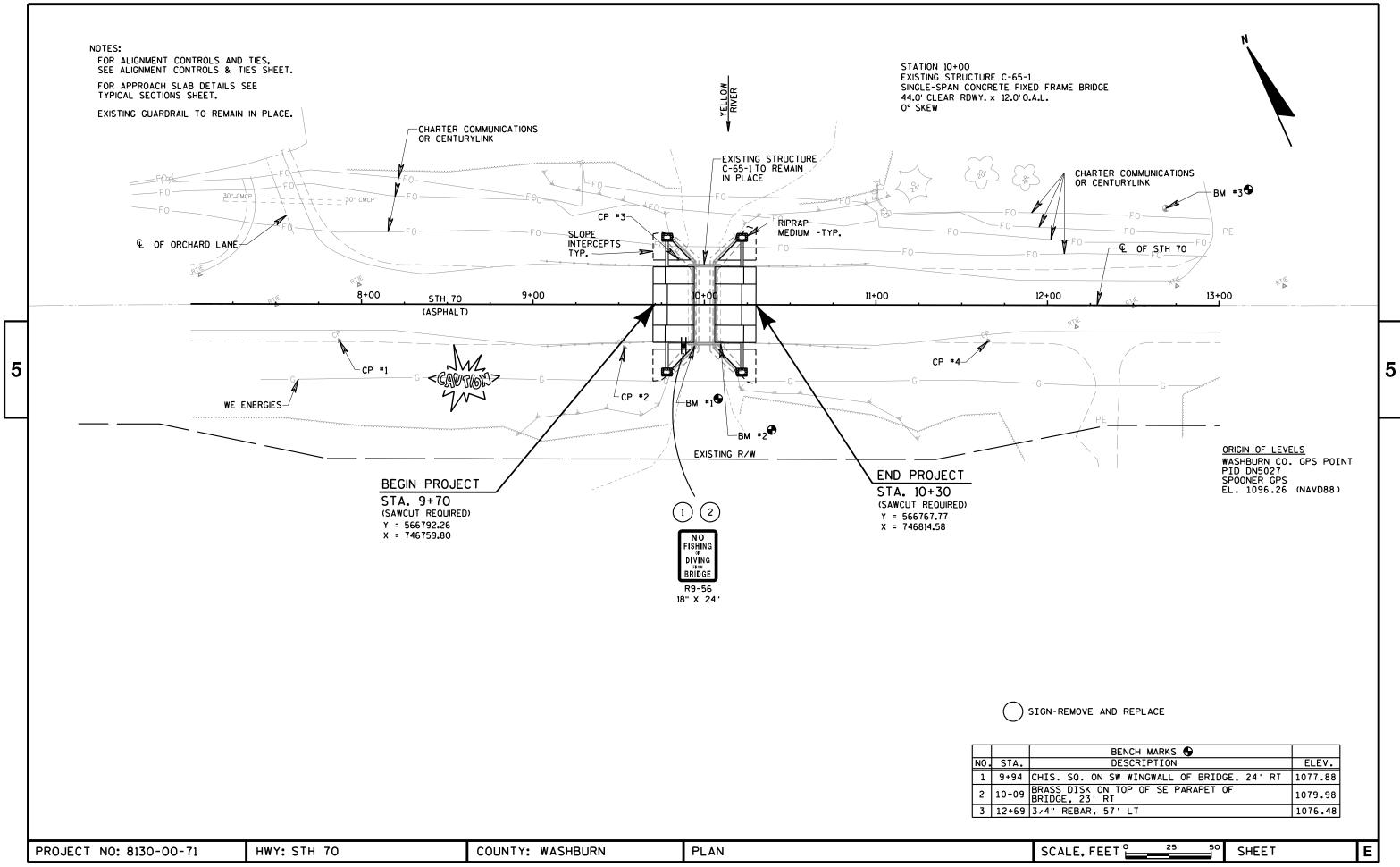
				650.6500	650.9910
		650.4500	650.5000	STRUCTURE	SUPPLEMENTARY
		SUBGRADE	BASE	LAYOUT	CONTROL
CATEGORY	LOCATION	LF	LF	LS	LS
0010	PROJECT 8717-00-70, STH 70	48	48		1
0020	C-65-0001, STH 70			1	
TOTALS		48	48	1	1

#### 690.0150 SAWING ASPHALT (CATEGORY 0010)

STATION	LOCATION	LF
Sta. 9+70 Sta. 10+30	STH 70 STH 70	44
CTH H @ RR CROSSI		60
mora i		1.40
TOTAL		148

NOTE: ALONG THE DETOUR ROUTE, AT CTH H AND THE RAILROAD CROSSING. 30 FEET EACH SIDE OF THE RAILROAD CROSSING AND IN-BETWEEN THE TRACKS WILL BE MILLED AND OVERLAYED.

PROJECT NO: 8130-00-71 HWY: STH 70 COUNTY: WASHBURN MISCELLANEOUS QUANTITIES SHEET E

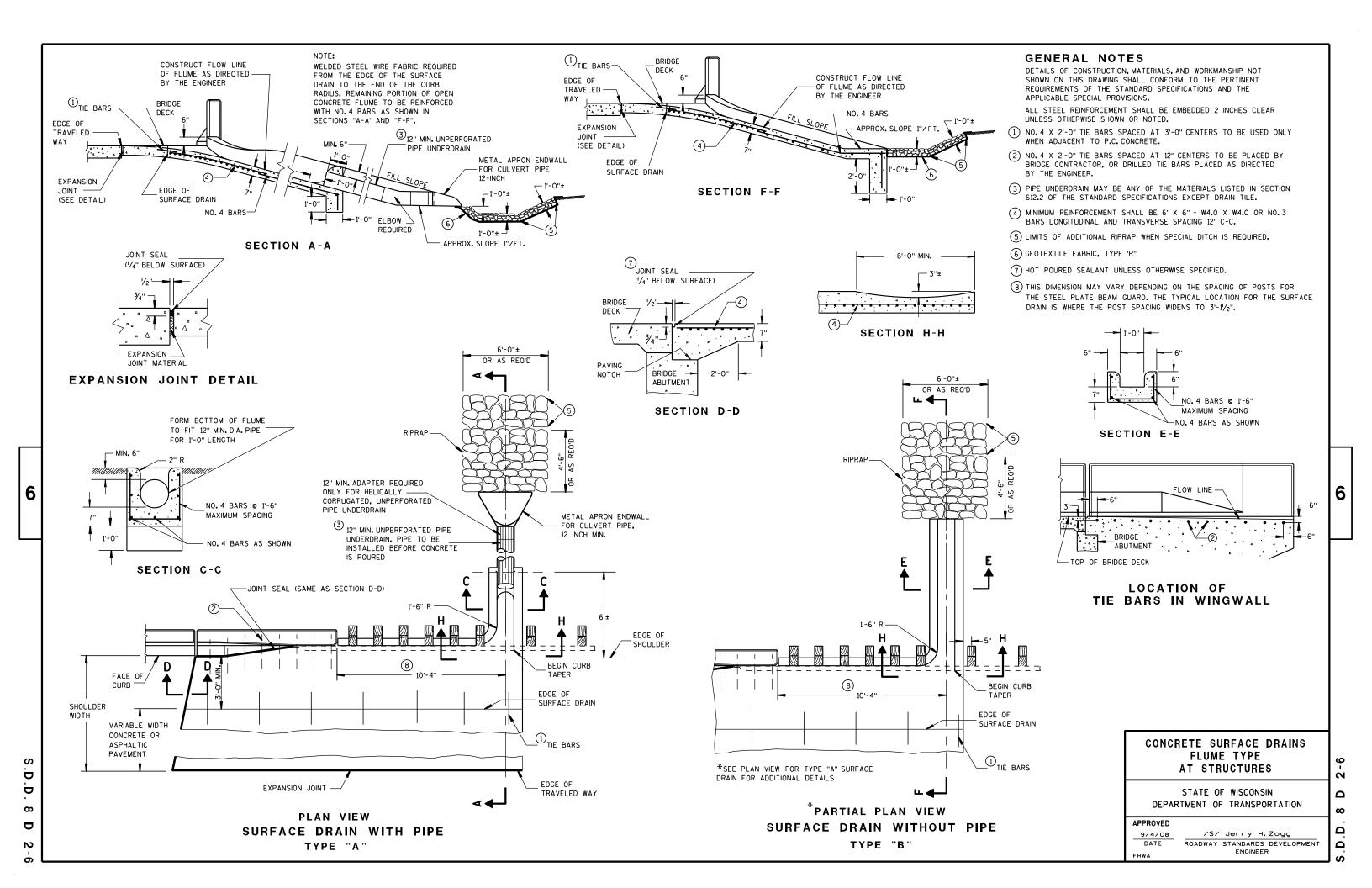


# Standard Detail Drawing List

08D02-06	CONCRETE SURFACE DRAINS FLUME TYPE AT STRUCTURES
08E08-03	TYPICAL INSTALLATIONS OF EROSION BALES / TEMPORARY DITCH CHECKS
08E09-06	SILT FENCE
13B02-06	CONCRETE PAVEMENT APPROACH SLAB
15C02-05A	BARRICADES AND SIGNS FOR MAINLINE CLOSURES
15C02-05B	BARRICADES AND SIGNS FOR MAINLINE CLOSURES
15C02-05C	DETOUR SIGNING FOR MAINLINE CLOSURES
15C06-06	SIGNING & MARKING FOR TWO LANE BRIDGES
15C08-16A	PAVEMENT MARKING (MAINLINE)

6

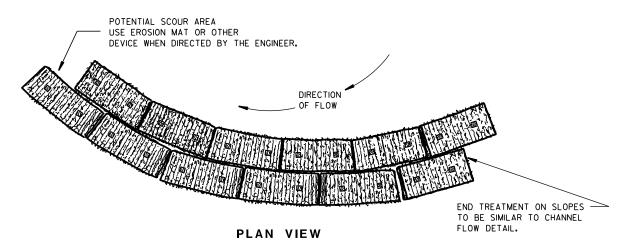
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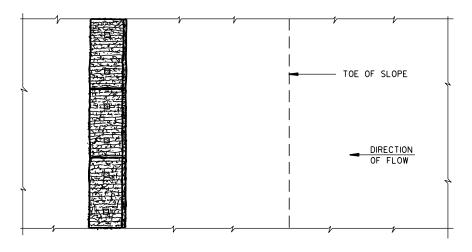
#### **GENERAL NOTES**

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.

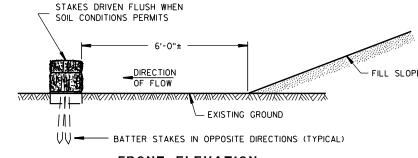
TEMPORARY DITCH CHECKS EITHER EROSION BALES OR MANUFACTURED SHALL BE PAID FOR UNDER THE BID ITEM OF TEMPORARY DITCH CHECK. THE DEPARTMENT WILL NOT PAY FOR TEMPORARY DITCH CHECKS CONSTRUCTED OF A SINGLE ROW OF EROSION BALES.



WHEN ALTERING THE DIRECTION OF FLOW



#### **PLAN VIEW**



#### FRONT ELEVATION

WHEN EXISTING GROUND SLOPES AWAY FROM FILL SLOPE

**EROSION BALES FOR SHEET FLOW** 

#### TYPICAL INSTALLATIONS OF **EROSION BALES / TEMPORARY** DITCH CHECKS

6

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STATE OF WISCONSIN DEPARTMENT OF TRANSPORTATION

APPROVED

6/04/02 /S/ Beth Connestro
CHIEF ROADWAY DEVELOPMENT ENGINEER

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## TYPICAL APPLICATION OF SILT FENCE

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## PLAN VIEW SILT FENCE AT MEDIAN SURFACE DRAINS



#### **GENERAL NOTES**

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

- ① HORIZONTAL BRACE REQUIRED WITH 2" X 4" WOODEN FRAME OR EQUIVALENT AT TOP OF POSTS.
- 2 FOR MANUAL INSTALLATIONS THE TRENCH SHALL BE A MINIMUM OF 4" WIDE & 6" DEEP TO BURY AND ANCHOR THE GEOTEXTILE FABRIC. FOLD MATERIAL TO FIT TRENCH AND BACKFILL & COMPACT TRENCH WITH EXCAVATED SOIL.
- 3 WOOD POSTS SHALL BE A MINIMUM SIZE OF 11/8" X 11/8" OF OAK OR HICKORY.
- 4) SILT FENCE TO EXTEND ACROSS THE TOP OF THE PIPE.
- (5) CONSTRUCT SILT FENCE FROM A CONTINUOUS ROLL IF POSSIBLE BY CUTTING LENGTHS TO AVOID JOINTS. IF A JOINT IS NECESSARY USE ONE OF THE FOLLOWING TWO METHODS; A) OVERLAP THE END POSTS AND TWIST, OR ROTATE, AT LEAST 180 DEGREES, B) HOOK THE END OF EACH SILT FENCE LENGTH.



TRENCH DETAIL



SILT FENCE TIE BACK

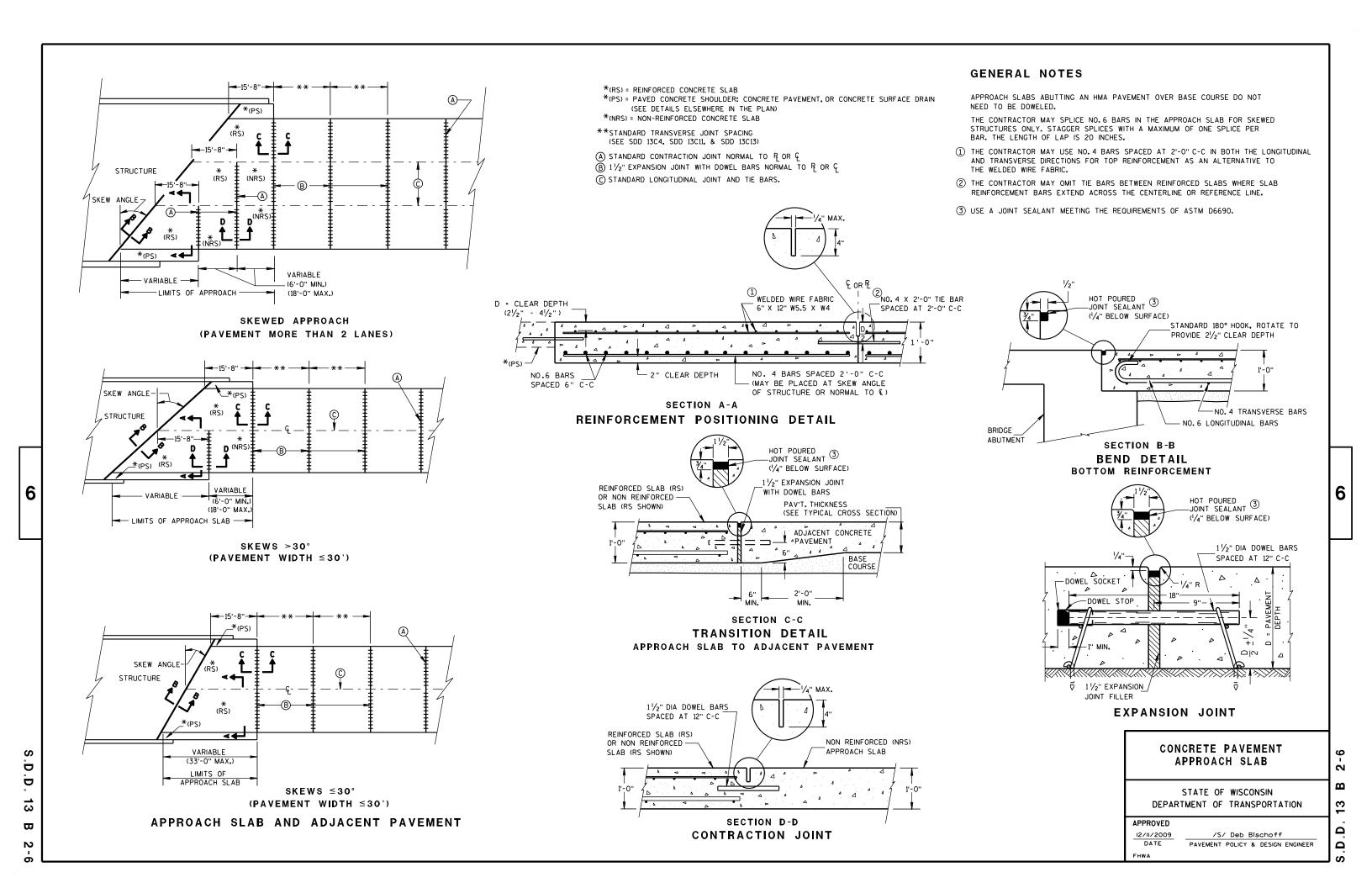
(WHEN REQUIRED BY THE ENGINEER)

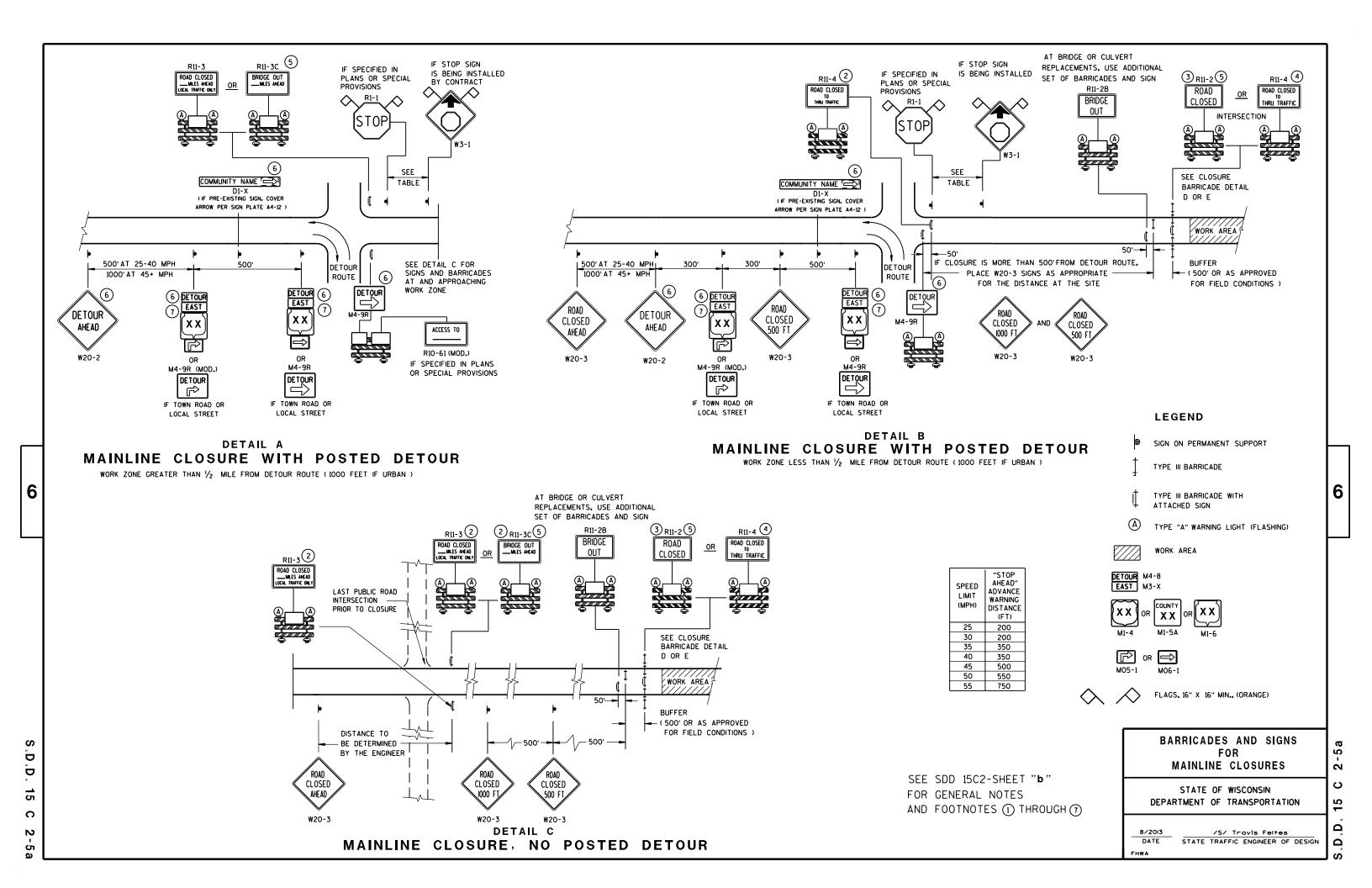


SILT FENCE

တ  $\infty$ 

6

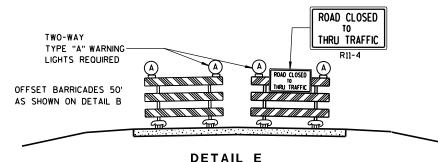




#### BRIDGE ROAD 1)TWO-WAY **CLOSED** TYPE "A" WARNING LIGHTS REQUIRED OUTSIDE EDGE OF SHOULDER OUTSIDE EDGE OF SHOULDER OR FACE OF CURB OR FACE OF CURB **DETAIL D**

## ROAD CLOSURE BARRICADE DETAIL

APPROACH VIEW



LANE CLOSURE BARRICADE DETAIL

APPROACH VIEW

SEE SDD 15C2-SHEET "a" FOR LEGEND

#### **GENERAL NOTES**

THE EXACT NUMBER, LOCATION, AND SPACING OF ALL SIGNS AND BARRICADES SHALL BE ADJUSTED TO FIT FIELD CONDITIONS AS APPROVED BY THE ENGINEER.

ANY SIGNS TEMPORARY OR EXISTING, WHICH CONFLICT WITH TRAFFIC CONTROL "IN USE" SHALL BE REMOVED OR COVERED AS NEEDED AND AS APPROVED BY THE ENGINEER.

THE SPACING BETWEEN TRAFFIC CONTROL SIGNS SHOULD BE ADJUSTED TO NOT CONFLICT WITH AND SHOULD PROVIDE A DESIRABLE MINIMUM OF 200 FEET CLEARANCE TO EXISTING SIGNS THAT WILL REMAIN IN PLACE.

BARRICADES THAT MUST BE MOVED FOR A WORK OPERATION SHALL BE IMMEDIATELY RE-ESTABLISHED UPON COMPLETION OF THE OPERATION OR, FOR CONTINUING OPERATIONS, AT THE END OF EACH WORKING DAY.

SIGNS THAT WILL BE IN PLACE LESS THAN 7 CONTINUOUS DAYS AND NIGHTS MAY BE MOUNTED ON PORTABLE SUPPORTS.

ALL TYPE III BARRICADES SHALL HAVE RAILS REFLECTORIZED ON BOTH FACES. STRIPES SHALL BE PROPERLY SLOPED DOWN TOWARD THE TRAFFIC SIDE OR AS SHOWN IN THE ROAD CLOSURE BARRICADE DETAIL D FOR FULL ROAD CLOSURES.

TYPE "A" LOW-INTENSITY FLASHING WARNING LIGHTS SHALL BE VISIBLE ON BOTH SIDES OF THE

THE R11-2, R11-3, M4-9, R11-4 AND R10-61 SIGNS PLACED ON BARRICADES SHALL COVER NO MORE THAN THE TOP RAIL. THE SIGNS SHALL NOT COVER ANY PORTION OF THE MIDDLE OR BOTTOM RAILS.

"WO AND "MO" SIGNS ARE THE SAME AS "W" AND "M" SIGNS EXCEPT THE BACKGROUND IS ORANGE.

ALL SIGNS SHALL BE 48" X 48" UNLESS OTHERWISE NOTED BELOW:

R11-2 SHALL BE 48" X 30". R11-3, R11-4 AND R10-61 SHALL BE 60" X 30". M4-9 SHALL BE 30" X 24". M3-X SHALL BE 24" X 12". (36" X 18" IF NEEDED TO MATCH EXISTING SIGNS.) M4-8 SHALL BE 24" X 12". (30" X 15" IF NEEDED TO MATCH EXISTING SIGNS.)

M1-4, M1-5A, AND M1-6 SHALL BE 24" X 24". (36" X 36" IF NEEDED TO MATCH EXISTING SIGNS.) MO5-1 AND MO6-1 SHALL BE 21" X 21". (30" X 30" IF NEEDED TO MATCH EXISTING SIGNS.) D1-X SHALL BE AS SHOWN ON SPECIFIC PROJECT SIGNING DETAIL SHEETS. R1-1 SHALL BE 36" X 36".

- (1) TWO WARNING LIGHTS SHALL BE PROVIDED ON THE CENTER BARRICADE AND A MINIMUM OF ONE WARNING LIGHT SHALL BE PROVIDED ON EACH OF THE OTHER BARRICADES WITHIN THE ROADWAY LIMITS. SPACING OF THE WARNING LIGHTS SHALL BE UNIFORM TO THE EDGE OF ROADWAY AS SHOWN (APPROX. 8-FOOT
- THESE SIGNS AND BARRICADES ARE NOT REQUIRED IF ROAD CLOSURE BEGINS AT INTERSECTION.
- FOR ROAD CLOSURE WITHOUT LOCAL ACCESS TO PROJECT, SEE ROAD CLOSURE BARRICADE DETAIL D.
- FOR ROAD CLOSURE WITH LOCAL ACCESS TO PROJECT, SEE LANE CLOSURE BARRICADE DETAIL E.
- FOR BRIDGE OR CULVERT REPLACEMENTS, SUBSTITUTE "BRIDGE OUT" INSTEAD OF "ROAD CLOSED" ON R11-2 AND R11-3 SIGNS.
- INSTALL DETOUR AND COMMUNITY GUIDE SIGNS AND ARROWS ONLY IF SPECIFIED IN THE CONTRACT. IF THERE ARE EXISTING ROUTE MARKER ASSEMBLIES THAT WILL REMAIN IN PLACE, ADJUST THE LOCATION OF THE DETOUR ROUTE SIGNS TO CORRESPOND WITH THE EXISTING ASSEMBLIES. MODIFY EXISTING SIGNS WHERE POSSIBLE. SEE SPECIFIC PROJECT DETOUR SIGNING DETAIL SHEETS. IF DETOUR SIGNS ARE BEING INSTALLED BY OTHERS. PLACE THE CONTRACTED TRAFFIC CONTROL SIGNS TO ALLOW FOR PLACEMENT OF ALL WARNING, DETOUR AND GUIDE SIGNS AS SHOWN.
- "EAST" CARDINAL DIRECTION MARKERS AND RIGHT TURN ARROWS ARE SHOWN. USE OTHER CARDINAL DIRECTIONS AND ARROWS AS APPROPRIATE.

#### BARRICADES AND SIGNS FOR MAINLINE CLOSURES

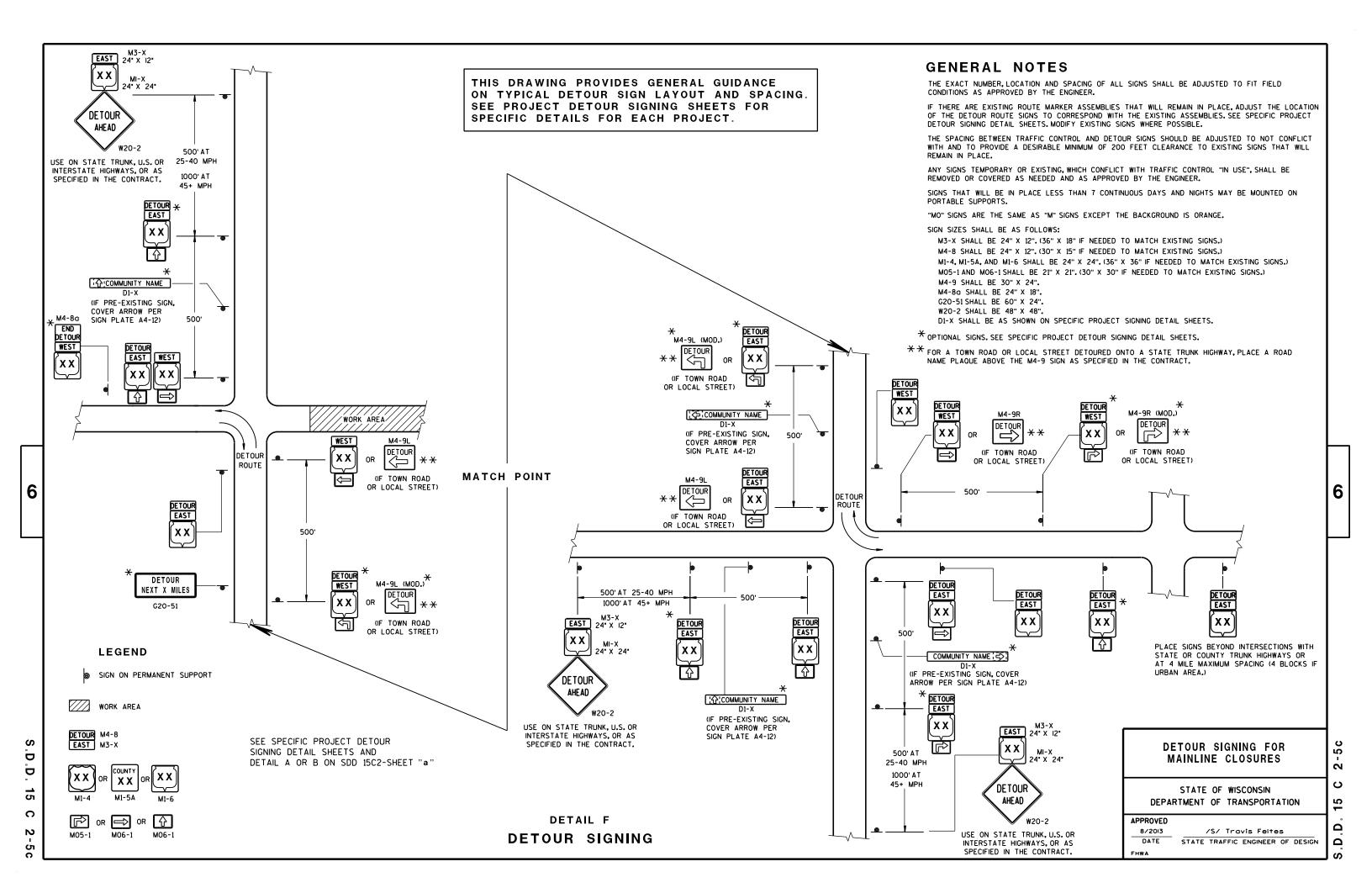
STATE OF WISCONSIN DEPARTMENT OF TRANSPORTATION

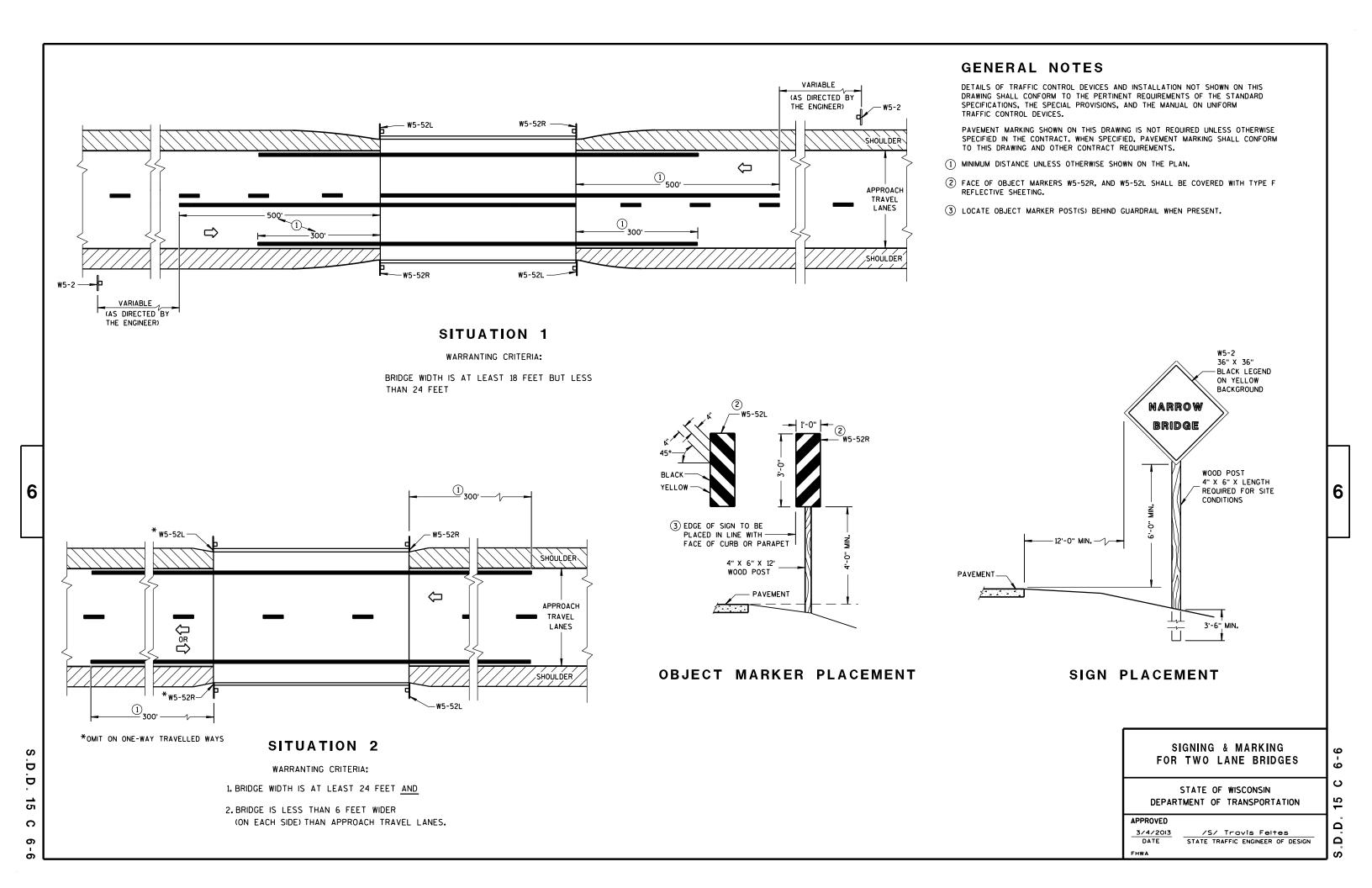
/S/ Travis Feltes STATE TRAFFIC ENGINEER OF DESIGN

2

Δ

2

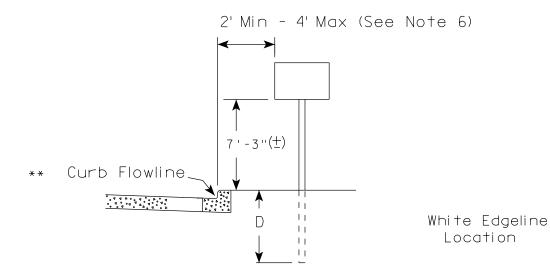




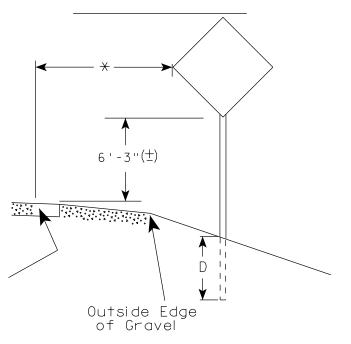




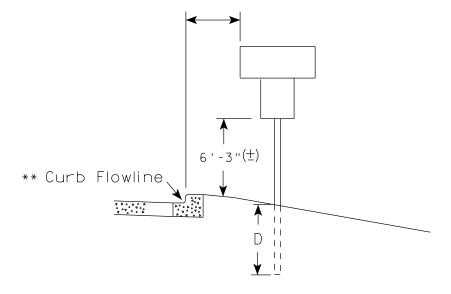
## urban area



RURAL AREA (See Note 2)



2' Min - 4' Max (See Note 6)



White Edgeline
Location

Outside Edge
of Gravel

\*\* The existence of curb and gutter does not in itself mandate the vertical clearance illustrated.

That height is typically measured where

there is sidewalk adjacent to the roadway or parking is permitted. In the absence of sidewalk vertical clearance is measured from the top of the curb. Offset of signs is measured from the flow line.

HWY:

\* 6 feet from edge of a paved shoulder or 12 feet from the edge of pavement (edge line location) or 2 feet from outside edge of gravel, whichever is greater unless directed by project engineer.

PLOT BY : mscj9h

#### GENERAL NOTES

- 1. Signs wider than 4 feet, 20 sq.ft or larger, shall be mounted on multiple posts. Refer to plate A4-4.
- 2. If signs are mounted on barrier wall, see A4-10 sign plate.
- 3. For expressways and freeways, mounting height is 7'- 3" (±) or 6'-3" (±) depending upon existence of a sub-sign.
- 4. Minimum mounting height for J assemblies (A4-5) is 7'-3'' ( $\pm$ ) or 6'-3'' ( $\pm$ ) per urban or rural detail respectively.
- 5. Minimum mounting height for signs mounted on traffic signal poles is 5' 3"  $(\pm)$ .
- 6. Offset distance shall be consistent with existing signs or consistent throughout length of project.
- 7. The  $(\pm)$  tolerance for mounting height is 3 inches.
- 8. Folding stop signs (R1-1F) shall be mounted at a height of 5'-3"  $(\pm)$  or as directed by the Engineer.
- 9. The Double Arrow sign (W12-1) shall be mounted at a height of 2'-3" (±). The Chevron sign (W1-8), Roundabout Chevron panel (R6-4B), Enhanced Reference Markers, Clearance Markers (W5-52), Mile Markers (D10 series) & End of Rod Markers (W5-56 & W5-56A) shall be mounted at a height of 4'-3" (+).

#### POST EMBEDMENT DEPTH

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

TYPICAL INSTALLATION
OF PERMANENT TYPE II
SIGNS ON SINGLE POSTS

WISCONSIN DEPT OF TRANSPORTATION

APPROVED

Matther & Rauh
For State Traffic Engineer

DATE 9/30/13

\_\_\_\_

SHEET NO:

COUNTY:

JN I Y:

PLOT DATE: 30-SEP-2013 13:25

PLOT NAME :

PLOT SCALE: 99.237937:1.000000

WISDOT/CADDS SHEET 42

PROJECT NO:



NOTES: 1. ALL MATERIAL TO BE APPROVED

BY ENGINEER PRIOR TO INSTALLATION

- 2. SEE SIGN PLATE A4-8 FOR SIGN HARDWARE REQUIREMENTS
- 3. 18 INCH X 18 INCH SQUARE BOX-OUTS MAY BE USED FOR INSTALLATIONS IN EXISTING CONCRETE OR ASPHALT LOCATIONS.



## ELEVATION VIEW

DETAIL OF STEEL 2 X 2 SIGN POST IN BOX-OUT



DETAIL OF WOOD 4 X 6 SIGN POST IN BOX-OUT

HWY:



#### PLAN VIEW

COUNTY:

FOR NEW CONCRETE/ASPHALT INSTALLATIONS

SIGN POST BOX-OUTS A4-3B

WISCONSIN DEPT OF TRANSPORTATION

For State Traffic Engineer

DATE 1/27/14 PLATE NO. A4-3B.1

SHEET NO:

FILE NAME : C:\CAEFiles\Projects\tr\_stdplate\A43B.DGN

PROJECT NO:

PLOT DATE: 27-JAN-2014 09:48

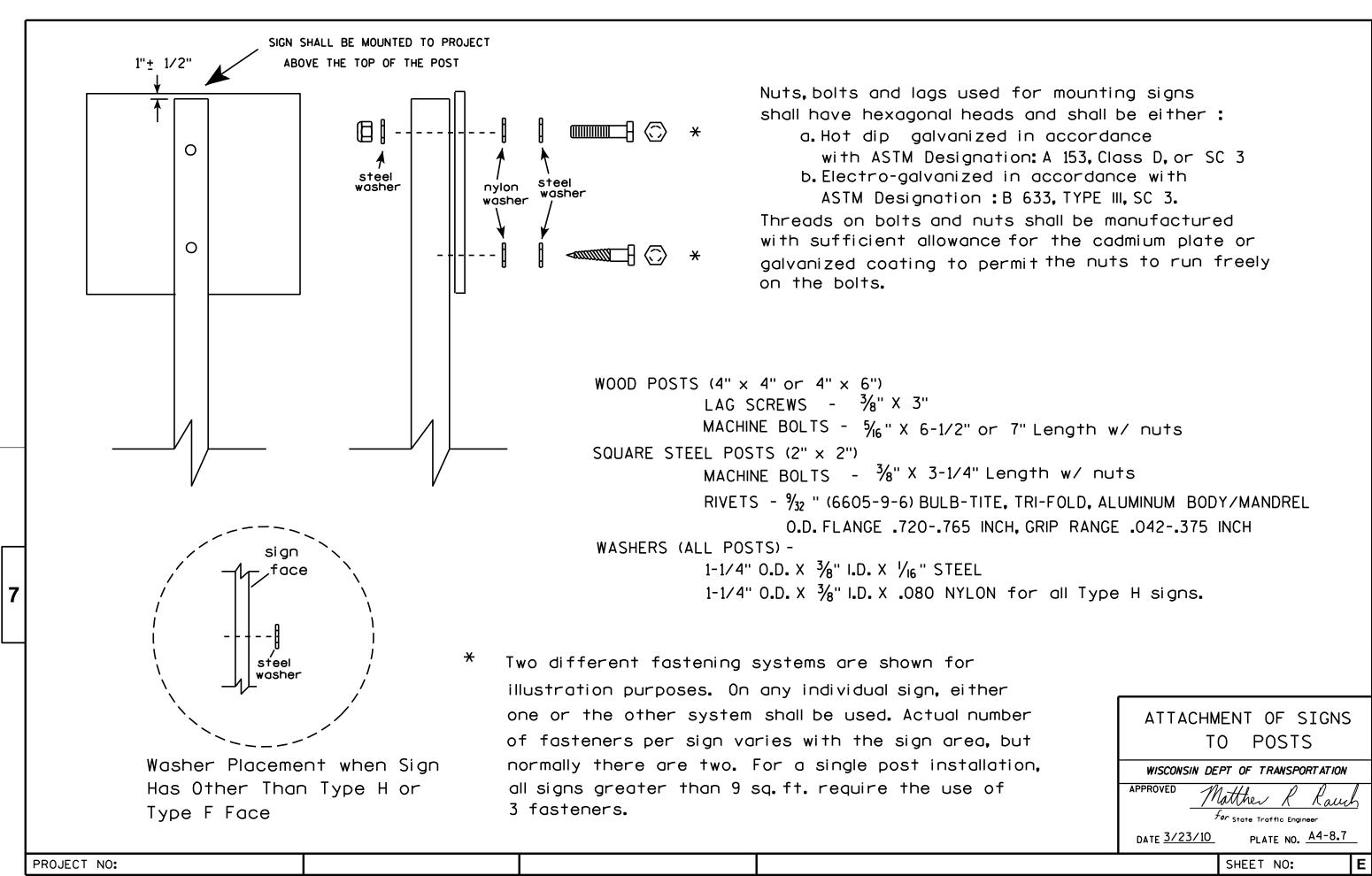
PLOT NAME :

PLOT BY: mscsja

PLOT SCALE: 13.659812:1.000000

APPROVED

WISDOT/CADDS SHEET 42





### NOTES

- 1. Sign is Type II Type H Reflective reference WIS DOT Standard Specification for HIGHWAY and STRUCTURE CONSTRUCTION latest edition.
- 2. Color:

Background - White Message - Black

- 3. Message Series See Note 5
- 4. Corners may be square or rounded when base material is plywood but borders shall be rounded as shown. When base material is metal, the corners and borders shall be rounded.
- 5. Line 1 is Series E. Lines 2, 3, 4, 5 and 6 are Series C.

SIZE Α N 0 2S 2M 1 1/8 3/8 1/2 1 1/2 3 1/8 6 3/8 5 1/4 2 1/8 5 3/4 18 24 3 2 3.0 5 1/4 2 1/8 5 3/4 18 24 | 1 1/8 | 3/8 1/2 1 1/2 3 1/8 6 3/8 3.0 3 2 3 4 5 PROJECT NO: HWY: COUNTY:

STANDARD SIGN R9-56

WISCONSIN DEPT OF TRANSPORTATION

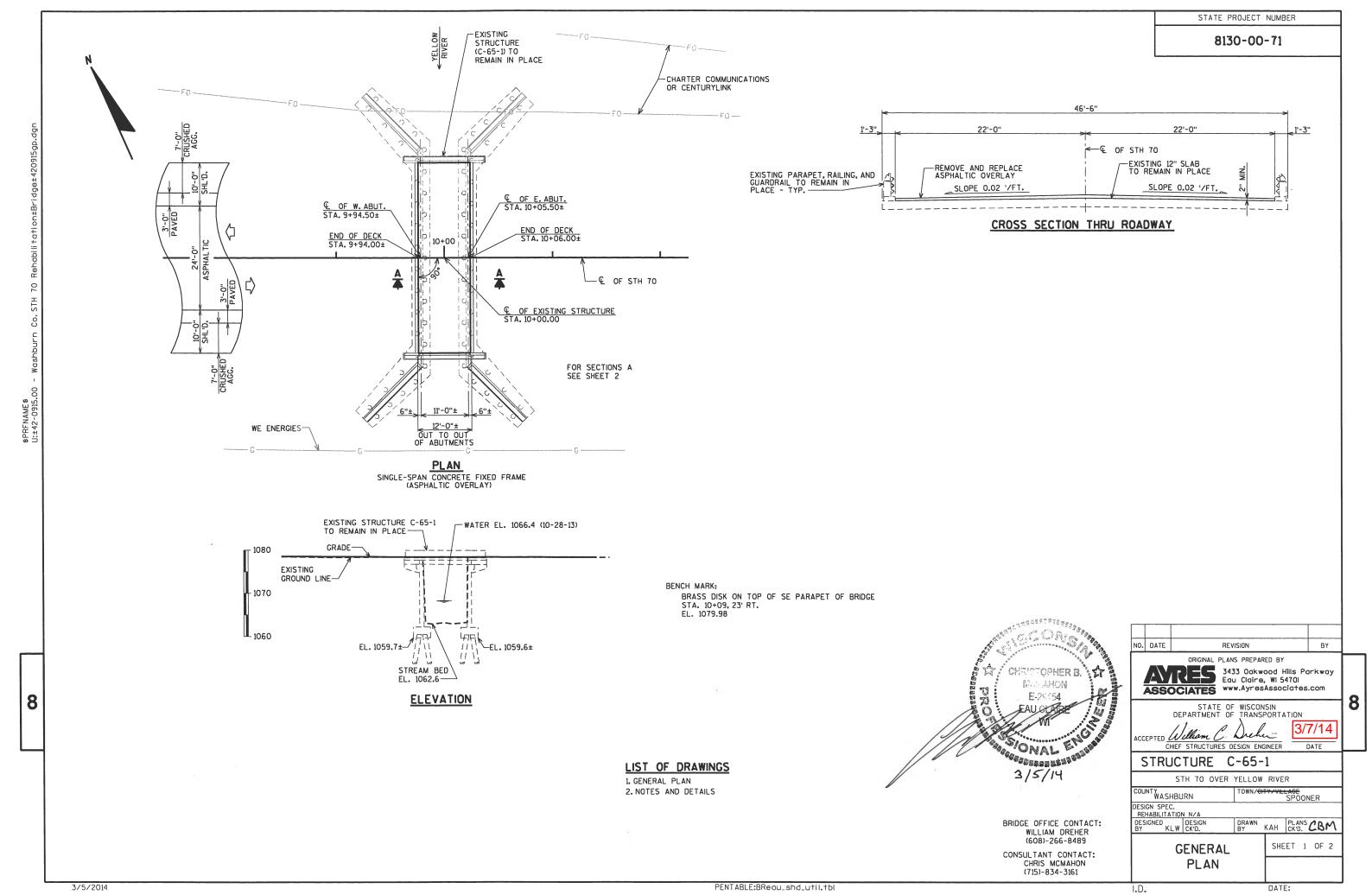
APPROVED

PLATE NO. R9-56.5

DATE 4/4/2011

SHEET NO:

PLOT NAME :



#### **GENERAL NOTES**

DRAWINGS SHALL NOT BE SCALED.

DRAWINGS, ELEVATIONS, AND DIMENSIONS SHOWN ARE BASED ON THE ORIGINAL STRUCTURE PLANS.

OUANTITIES FOR BID ITEMS, "PREPARATION DECKS TYPE 1", "PREPARATION DECKS TYPE 2", "CURB REPAIR", AND "FULL-DEPTH DECK REPAIR" SHALL BE VERIFIED IN THE FIELD BY THE PROJECT ENGINEER.

LIMITS OF ASPHALTIC OVERLAY SHALL BE FACE-TO-FACE OF CURB AND END-TO-END OF DECK.

PROFILE GRADE LINE SHALL BE DETERMINED BASED ON OVERLAY THICKNESS OF 2" PLACED ABOVE THE DECK SURFACE. IF EXPECTED OVERLAY THICKNESS IS EXCEEDED BY MORE THAN ½". CONTACT THE STRUCTURE DESIGN SECTION.

SEE ROADWAY PLANS FOR HMA PAVEMENT AND ASPHALTIC MATERIAL OUANTITIES PLACED OVER CONCRETE APPROACH SLABS AND CONCRETE SURFACE DRAINS.

#### TOTAL ESTIMATED QUANTITIES

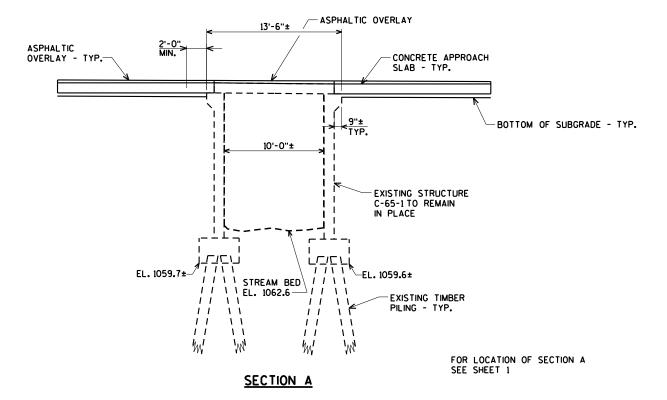
BID ITEM NUMBER	TACK COAT	UNIT	TOTAL
455.0145	ASPHALTIC MATERIAL PG64-34P	TON	0.6
455.0605	TACK COAT	GAL	2
460.1103	HMA PAVEMENT TYPE E-3	TON	10
509.0301	PREPARATION DECKS TYPE 1	SY	7
509.0302	PREPARATION DECKS TYPE 2	SY	2
509.1200	CURB REPAIR	LF	7
509.2000	FULL-DEPTH DECK REPAIR	SY	1
509.9010.5	REMOVING ASPHALTIC CONCRETE DECK OVERLAY C-65-1	SY	60
SPV.0035.01	CONCRETE MASONRY DECK PATCHING	CY	5
SPV.0090.01	SAWING PAVEMENT DECK PREPARATION AREAS	LF	50

INTES.

EXISTING PAVING NOTCH IS 1'-0" DEEP BY 9" WIDE.

CONCRETE APPROACH SLAB WILL BE PLACED 1'-O" THICK AT THE PAVING NOTCH.

AN ASPHALTIC OVERLAY WILL BE PLACED OVER THE CONCRETE APPROACH SLAB AND CONCRETE SURFACE DRAINS. SEE ROADWAY MISCELLANEOUS QUANTITIES FOR HMA PAVEMENT AND ASPHALTIC MATERIAL QUANTITIES.





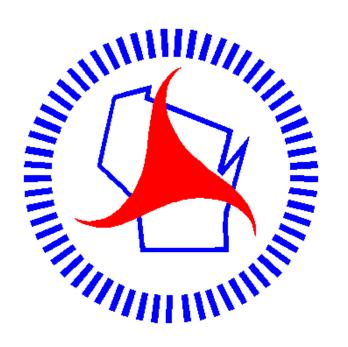
ARGINAL PLANS PREPARED BY

ASSOCIATES

ORIGINAL PLANS PREPARED BY

3433 Oakwood Hills Parkway
Edu Claire, WI 5470I
www.AyresAssociates.com

Notes



# Wisconsin Department of Transportation

Dedicated people creating transportation solutions through innovation and exceptional service.

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