Section No.

Section No.

Section No

Section No

Section No.

Section No.

TOTAL SHEETS =

DESIGN DESIGNATION

A.A.D.T.

D.H.V. D.D.

DESIGN SPEED

CORPORATE LIMITS

PROPERTY LINE

2018 = 10 (EST.)

2038 = 15 (EST.) = <15 (EST.)

= 50/50 (EST.

= 10% (EST.) = 25 MPH

1//////

GRADE LINE

SPECIAL DITCH

UTILITIES

ELECTRIC

FIBER OPTIC

SANITARY SEWER

UTILITY PEDESTAL

TELEPHONE POLE

POWER POLE

STORM SEWER
TELEPHONE

GRADE ELEVATION

CULVERT (Profile View)

MARSH OR ROCK PROFILE

= N/A

CONVENTIONAL SYMBOLS

LIMITED HIGHWAY EASEMENT

PROPOSED OR NEW R/W LINE

EXISTING RIGHT OF WAY

SLOPE INTERCEPT

REFERENCE LINE

EXISTING CULVERT

PROPOSED CULVERT

COMBUSTIBLE FLUIDS

WOODED OR SHRUB AREA

MARSH AREA

# MAY 2018 ORDER OF SHEETS Section No. 1 Title Section No. 2 Typical Sections and Details DEPARTMENT OF TRANSPORTATION

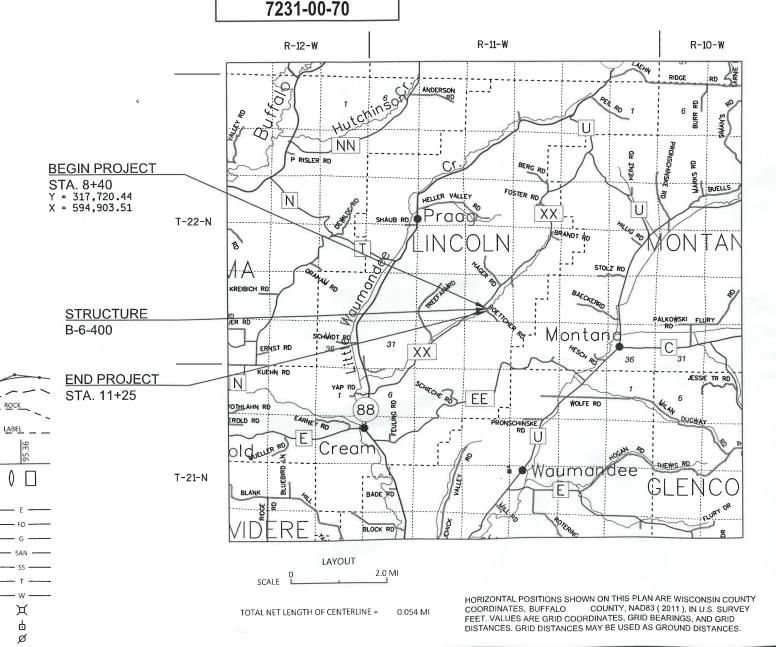
PLAN OF PROPOSED IMPROVEMENT

# T LINCOLN, BOETTCHER ROAD

**JAHNS VALLEY CREEK BRIDGE B-06-0400** 

# LOCAL STREET BUFFALO COUNTY

STATE PROJECT NUMBER



STATE PROJECT

PROJECT

CONTRACT

7231-00-70

ACCEPTED FOR
TOWN of LINCOLN

/2-19-17 /

ACCEPTED FOR

COUNTY

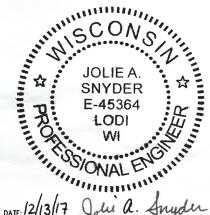
BUFFALO

12/18/17 Ble Platter

ORIGINAL PLANS PREPARED BY

PROFESSIONAL SERVICES

145 N. Central Avenue, Suite 201 Marshfield, WI 54449 715-384-2133 1-877-204-0572 Fax: 715-384-9787



STATE OF WISCONSIN DEPARTMENT OF TRANSPORTATION

PREPARED BY

Surveyor Designer MSA PROFESSIONAL SERVICES, INC.
MSA PROFESSIONAL SERVICES, INC.

1anagement onsultant

KNIGHT E/A, INC.

APPROVED FOR THE DEPARTMENT

(Management Consultant Signature)

ILE NAME : P:\5600\$\5640\$\5643\05643008\CADD\\$HEET\$PLAN\010101\_TI.DWG

Estimate of Quantities

Miscellaneous Quantities

Standard Detail Drawings

Computer Earthwork Data

38

Plan and Profile (Includes Erosion Control)

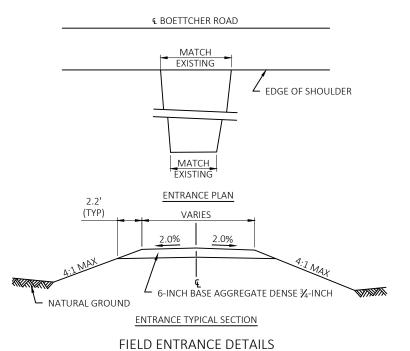
PROJECT LOCATION

PLOT DATE :

12/12/2017 3:42 PM

BRAD LEE

PLOT NAME



# FE, STA 10+53, LT

# **EROSION CONTROL NOTES**

RUNOFF COEFFICIENTS FOR THIS PROJECT: EXISTING SIDE SLOPES 0.30, PROPOSED SIDE SLOPES 0.30, EXISTING PAVEMENT 0.95, PROPOSED PAVEMENT 0.95.

TOTAL PROJECT AREA - 0.32 ACRES

TOTAL AREA EXPECTED TO BE DISTURBED BY CONSTRUCTION ACTIVITIES = 0.24 ACRES

#### **DESIGN CONTACT**

MSA PROFESSIONAL SERVICES, INC. 1230 SOUTH BOULEVARD BARABOO, WI 53913 JOLIE SNYDER, PE PHONE: (608) 355-8912 jsnyder@msa-ps.com

## UTILITIES

OVERHEAD ELECTRIC RIVERLAND ENERGY COOPERATIVE N28988 WI-93 TRUNK ARCADIA, WI 54612 **ROB SOSALLA** PHONE: (608) 323-3381 rsosalla@riverlandenergy.com

## **DNR CONTACT**

WISCONSIN DEPARTMENT OF NATURAL RESOURCES EAU CLAIRE SERVICE CENTER 1300 W CLAIREMONT AVENUE EAU CLAIRE, WI 54701 AMY LESIK PHONE: (715) 836-6571 amyl.lesik@wisconsin.gov

# TOWN CONTACT

TOWN OF LINCOLN CHAIRMAN S1745 TREE FARM ROAD ALMA, WI 54610 RAYMOND SECRIST PHONE: (608) 685-3347

#### COUNTY CONTACT

**BUFFALO COUNTY** HIGHWAY COMMISSIONER S1672 STATE ROAD 37 ALMA, WI 54610 BOB PLATTETER PHONE: (608) 685-6226 bob.platteter@co.buffalo.wi.us



#### **GENERAL NOTES**

DISTURBED AREAS WITHIN THE RIGHT-OF-WAY, EXCEPT THE AREAS WITHIN THE FINISHED SHOULDER POINTS, SHALL BE FERTILIZED, SEEDED AND MULCHED AS DIRECTED BY THE ENGINEER. OVERSOW PERMANENT SEEDING AREAS WITH TEMPORARY SEED.

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

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

ELEVATIONS SHOWN ON THIS PLAN ARE REFERENCED TO USGS NAVD 88 (2012).

THE 3" ASPHALTIC SURFACE SHALL CONSIST OF A 1.5" UPPER LAYER WITH NO. 5 (9.5 MM) NOMINAL SIZE AGGREGATE AND A 1.5" LOWER LAYER WITH WITH NO. 5 (9.5 MM) NOMINAL SIZE AGGREGATE.

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

THE CONTRACTOR SHALL NOT GO OUTSIDE THE LIMITS OF CONSTRUCTION WITHOUT APPROVAL FROM THE ENGINEER.

PROJECT NO: 7231-00-70 **HWY: LOCAL STREET** COUNTY: BUFFALO **GENERAL NOTES** SHEET Ε FILE NAME : P:\5600S\5640S\5643\05643008\CADD\SHEETSPLAN\020101\_GN.DWG PLOT DATE : 1/23/2018 4:00 PM ############

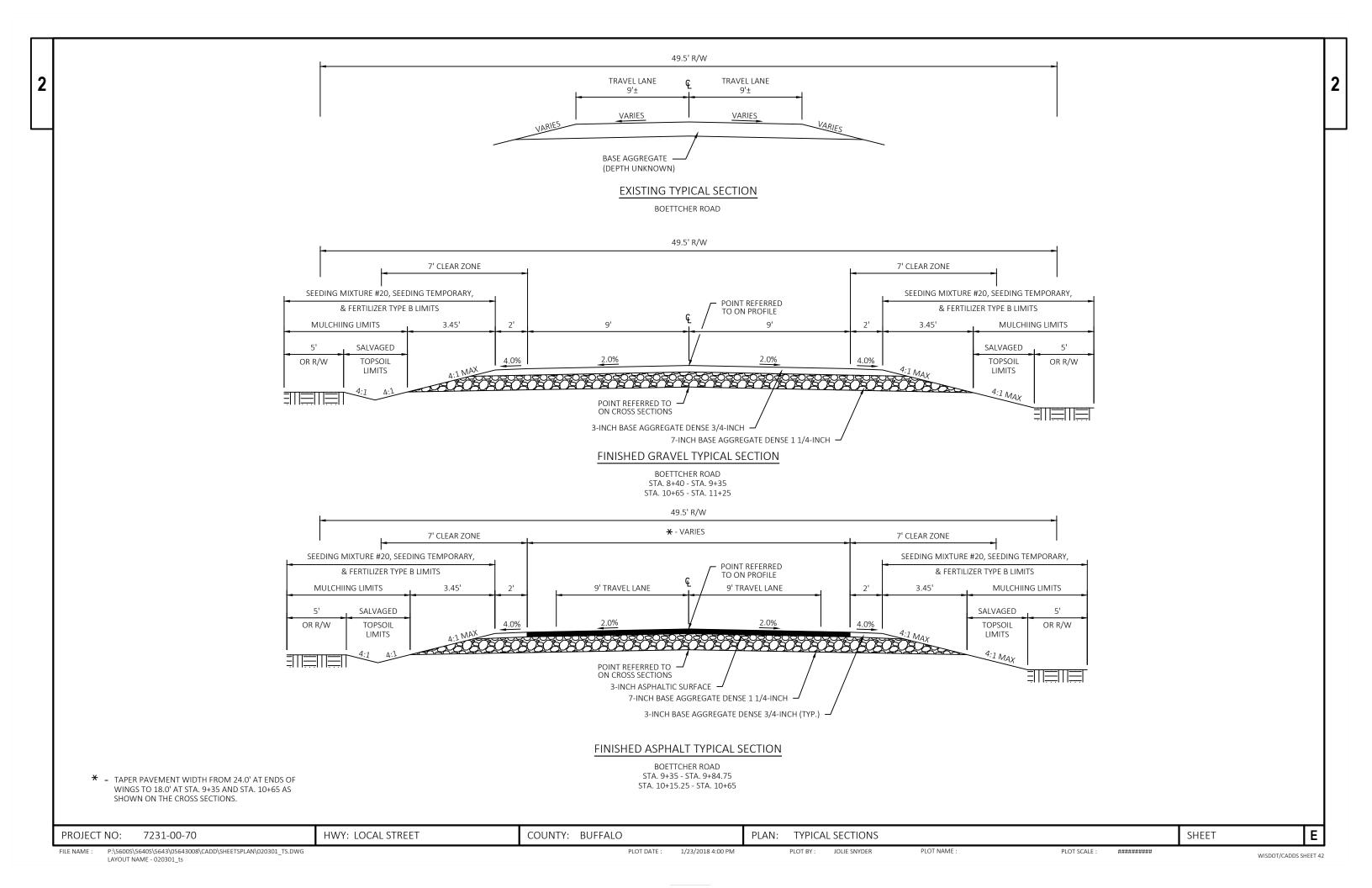
LAYOUT NAME - 020101\_gn

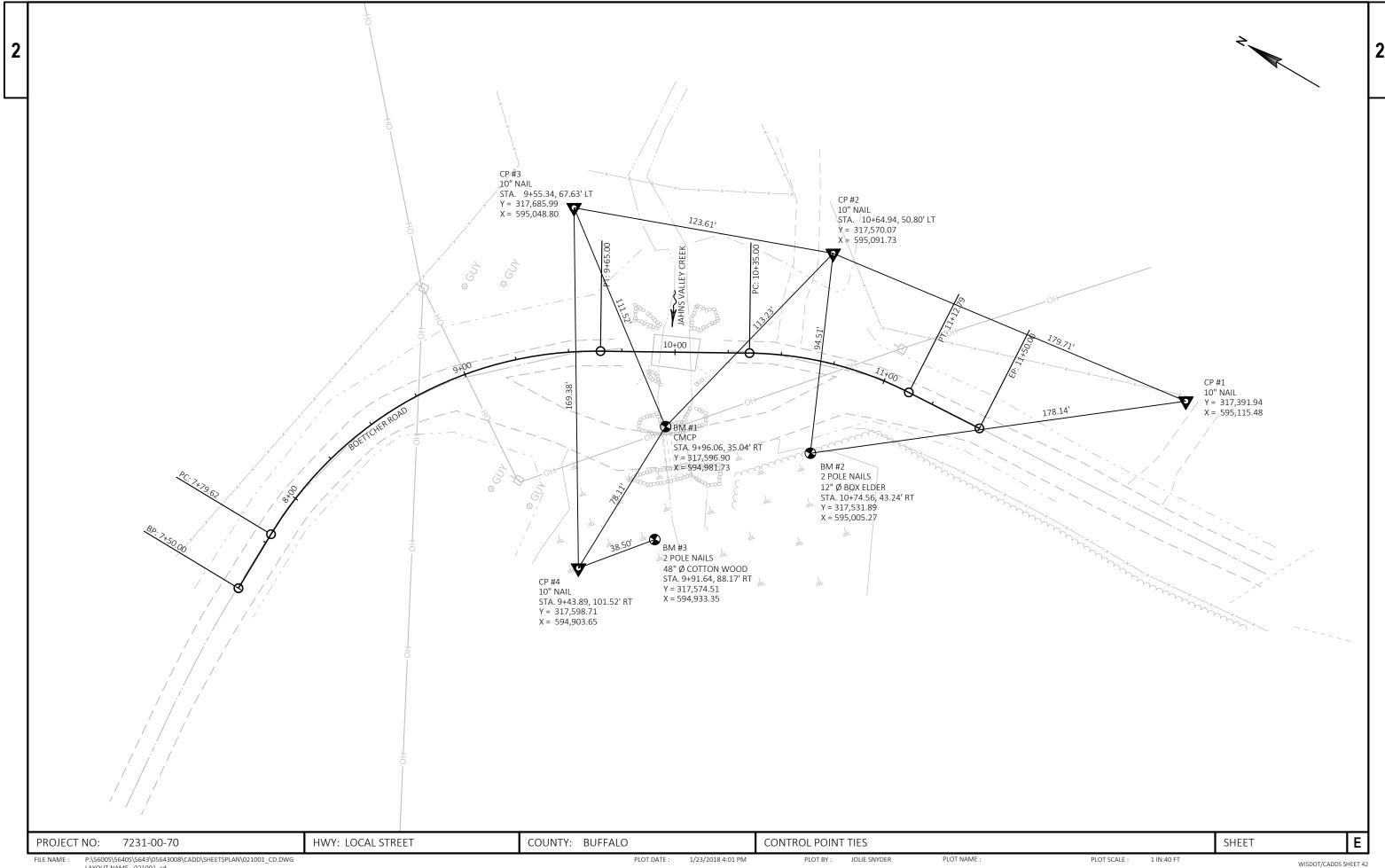
PLOT BY:

JOLIE SNYDER

PLOT NAME

PLOT SCALE:





P:\5600\$\5640\$\5643\05643008\CADD\\$HEET\$PLAN\021001\_CD.DWG LAYOUT NAME - 021001\_cd PLOT DATE : 1/23/2018 4:01 PM JOLIE SNYDER PLOT SCALE : 1 IN:40 FT PLOT BY:

		-	

					7231-00-70
Line	Item	Item Description	Unit	Total	Qty
0002	203.0600.S	Removing Old Structure Over Waterway With Minimal Debris (station) 01. Sta. 10+00	LS	1.000	1.000
0004	205.0100	Excavation Common	CY	259.000	259.000
0006	206.1000	Excavation for Structures Bridges (structure) 01. B-6-400	LS	1.000	1.000
8000	210.1500	Backfill Structure Type A	TON	360.000	360.000
0010	213.0100	Finishing Roadway (project) 01. 7231-00-70	EACH	1.000	1.000
0012	305.0110	Base Aggregate Dense 3/4-Inch	TON	85.000	85.000
0014	305.0120	Base Aggregate Dense 1 1/4-Inch	TON	305.000	305.000
0016	455.0605	Tack Coat	GAL	12.000	12.000
0018	465.0105	Asphaltic Surface	TON	38.000	38.000
0020	502.0100	Concrete Masonry Bridges	CY	110.000	110.000
0022	502.3200	Protective Surface Treatment	SY	131.000	131.000
0024	505.0400	Bar Steel Reinforcement HS Structures	LB	3,200.000	3,200.000
0026	505.0600	Bar Steel Reinforcement HS Coated Structures	LB	11,330.000	11,330.000
0028	513.4061	Railing Tubular Type M (structure) 01. B-6-400	LF	106.000	106.000
0030	516.0500	Rubberized Membrane Waterproofing	SY	16.000	16.000
0032	550.0500	Pile Points	EACH	8.000	8.000
0034	550.1100	Piling Steel HP 10-Inch X 42 Lb	LF	120.000	120.000
0034	606.0300	Riprap Heavy	CY	80.000	80.000
0038	612.0406	Pipe Underdrain Wrapped 6-Inch	LF	170.000	170.000
0040	618.0100	Maintenance And Repair of Haul Roads (project) 01.	EACH	1.000	1.000
		7231-00-70			
0042	619.1000	Mobilization	EACH	1.000	1.000
0044	624.0100	Water	MGAL	23.200	23.200
0046	625.0500	Salvaged Topsoil	SY	275.000	275.000
0048	627.0200	Mulching	SY	470.000	470.000
0050	628.1504	Silt Fence	LF	420.000	420.000
0052	628.1520	Silt Fence Maintenance	LF	420.000	420.000
0054	628.1905	Mobilizations Erosion Control	EACH	2.000	2.000
0056	628.1910	Mobilizations Emergency Erosion Control	EACH	2.000	2.000
0058	628.6005	Turbidity Barriers	SY	146.000	146.000
0060	629.0210	Fertilizer Type B	CWT	0.550	0.550
0062	630.0120	Seeding Mixture No. 20	LB	18.000	18.000
0064	630.0200	Seeding Temporary	LB	18.000	18.000
0066	634.0612	Posts Wood 4x6-Inch X 12-FT	EACH	4.000	4.000
0068	637.2230	Signs Type II Reflective F	SF	12.000	12.000
0070	642.5001	Field Office Type B	EACH	1.000	1.000
0072	643.5000	Traffic Control	EACH	1.000	1.000
0074	645.0111	Geotextile Type DF Schedule A	SY	60.000	60.000
0074	045.0111	Geolexille Type DF Schedule A	01	00.000	00.000

# Estimate Of Quantities Page 2

				7	231-00-70
Line	Item	Item Description	Unit	Total	Qty
0076	645.0120	Geotextile Type HR	SY	180.000	180.000
0078	650.4500	Construction Staking Subgrade	LF	255.000	255.000
0800	650.5000	Construction Staking Base	LF	255.000	255.000
0082	650.6500	Construction Staking Structure Layout (structure) 01. B-6-400	LS	1.000	1.000
0084	650.9910	Construction Staking Supplemental Control (project) 01. 7231-00-70	LS	1.000	1.000
0086	650.9920	Construction Staking Slope Stakes	LF	255.000	255.000
8800	715.0502	Incentive Strength Concrete Structures	DOL	660.000	660.000

3

ASPHALT PAVEMENT ITEMS

STATION - STATION

8+40.00 - 9+84.75

10+15.25 - 11+40.00

TOTALS:

455.0605

TACK

COAT

GAL

6

465.0105

ASPHALTIC

SURFACE

TON

19

19

38

	205.0100 EXCAVATION COMMON	FILL	EXPANDED FILL	WASTE
STATION - STATION	CY	CY (1)	CY (2)	CY
STA 8+40.00 - STA. 9+84.75	130	15	20	110
STA 10+15.25 - STA 11+25.00	129	6	8	121
TOTALS:	259	21	28	231

(1) - NOT A BID ITEM - FOR INFORMATIONAL PURPOSES ONLY. (2) - FILL EXPANSION 30%

	305.0110	305.0120	624.0100
	BASE	BASE	WATER (1)
	AGGREGATE	AGGREGATE	
	DENSE	DENSE	
	3/4-INCH	1 1/4-INCH	
STATION - STATION	TON	TON	MGAL
8+40.00 - 9+84.75	44	165	4
10+15.25 - 11+40.00	35	140	4
10+53 FE LT	6	_	0.2
TOTALS:	85	305	8.2

BASE AGGREGATE ITEMS

(1) - ADDITIONAL QUANTITIES LISTED ELSEWHERE

#### MAINTENANCE AND REPAIR OF HAUL ROADS

618.0100 MAINTENANCE AND REPAIR OF HAUL ROADS DESCRIPTION EACH PROJECT 7231-00-70 TOTALS:

## RESTORATION ITEMS

		625.0500 SALVAGED	627.0200 MULCHING	629.0210 FERTILIZER	630.0120 SEEDING	630.0200 SEEDING	624.0100 WATER (1
		TOPSOIL	MULCHING	TYPE B	MIXTURE NO. 20	TEMPORARY	WAIER (I
STATION - STATION	LOCATION	SY	SY	CWT	LB	LB	MGAL
8+40.00 - 9+74.75	LT	85	155	0.15	6	6	4.8
8+40.00 - 9+74.75	RT	35	105	0.10	4	4	3.5
10+25.25 - 11+25.00	LT	40	85	0.10	3	3	2.8
10+25.25 - 11+25.00	RT	55	90	0.10	3	3	2.8
UNDISTRIBUTED		60	35	0.10	2	2	1.0
	TOTALS:	275	470	0.55	18	18	15

		628.1504 SILT FENCE	628.1520 SILT FENCE MAINTENANCE	628.6005 TURBIDITY BARRIERS
STATION - STATION	LOCATION	LF	LF	SY
8+40 - 9+96	LT & RT	280	280	59
10+02 - 11+25	LT & RT	120	120	67
UNDISTRIBUTED	-	20	20	20
	TOTALS:	420	420	146

SILT FENCE

#### MOBILIZATION EROSION CONTROL

	628.1905 MOBILIZATION EROSION	628.1910 MOBILIZATION EMERGENCY
	CONTROL	EROSION CONTROL
DESCRIPTION	EACH	EACH
PROJECT 7231-00-70	2	2
TOTALS:	2	2

(1) - ADDITIONAL QUANTITIES LISTED ELSEWHERE

#### SIGNING ITEMS

		SIGN		634.0612 POSTS WOOD 4X6-INCH X 12 FT	637.2230 SIGNS TYPE II REFLECTIVE F	
STATION	LOCATION	CODE	SIZE	EACH	SF	COMMENTS
9+75	LT	W5-52L	12"x36"	1	3	OBJECT MARKER
9+75	RT	W5-52R	12"x36"	1	3	OBJECT MARKER
10+25	LT	W5-52R	12"x36"	1	3	OBJECT MARKER
10+25	RT	W5-52L	12"x36"	1	3	OBJECT MARKER
		TOTALS:		4	12	

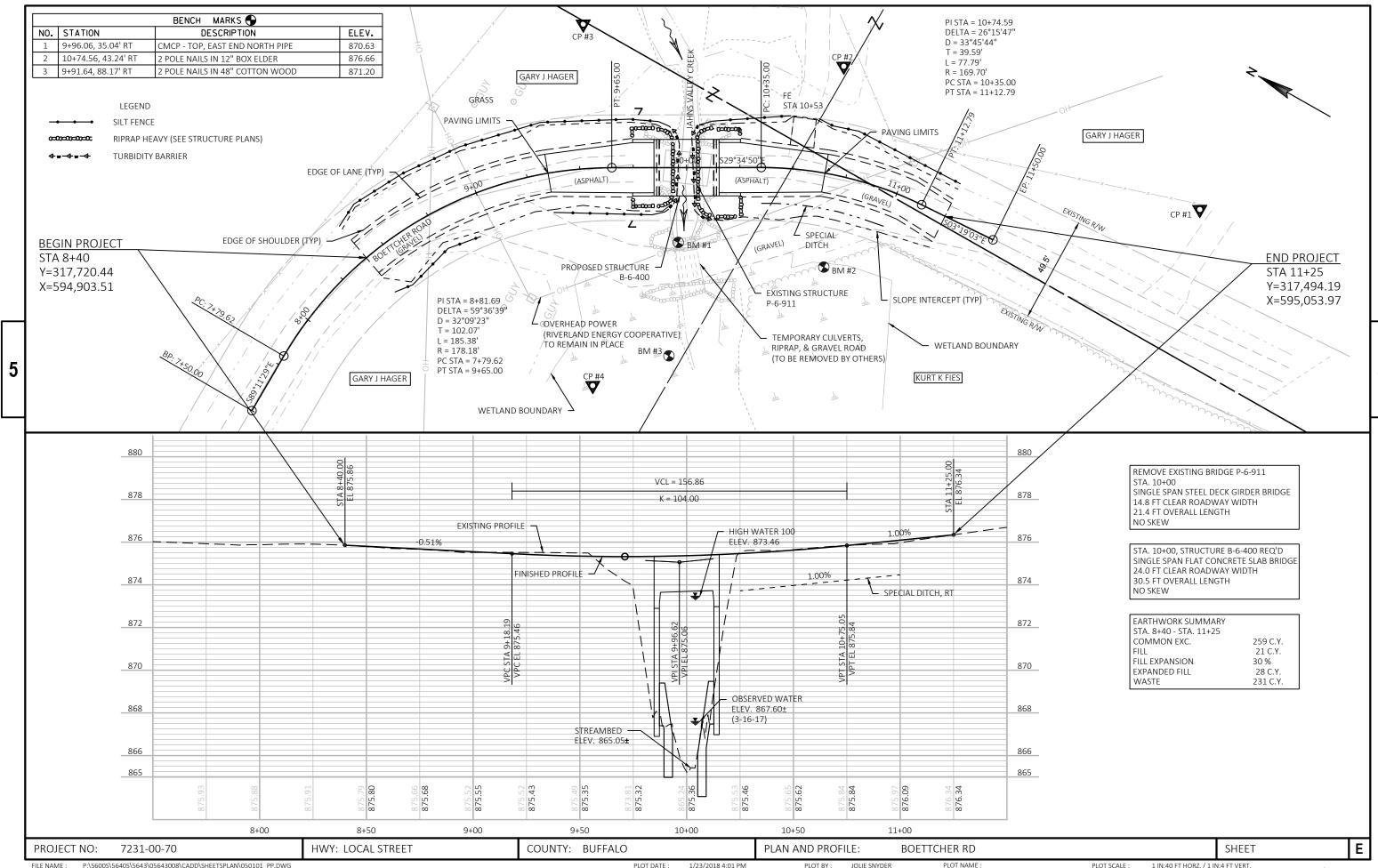
## CONSTRUCTION STAKING

	650.4500 CONSTRUCTION STAKING SUBGRADE	650.5000 CONSTRUCTION STAKING BASE	650.9920 CONSTRUCTION STAKING SLOPE STAKES	650.9910 CONSTRUCTION STAKING SUPPLEMENTAL CONTROL 7231-00-70
STATION - STATION	LF	LF	LF	LS
8+40.00 - 9+84.75	145	145	145	
10+15.25 - 11+25.00	110	110	110	_
7231-00-70	_			1
TOTALS:	255	255	255	1

PROJECT NO: 7231-00-70 HWY: LOCAL STREET COUNTY: BUFFALO MISCELLANEOUS QUANTITIES FILE NAME : P:\5600S\5640S\5643\05643008\CADD\SHEETSPLAN\030201\_MQ.DWG LAYOUT NAME - 030201\_MQ PLOT DATE: 1/23/2018 4:01 PM PLOT BY : JOLIE SNYDER PLOT NAME : Ε

SHEET

PLOT SCALE : ########



# Standard Detail Drawing List

08E09-06	SILT FENCE
08E11-02	TURBI DI TY BARRI ER
12A03-10	NAME PLATE (STRUCTURES)
15C02-06A	BARRICADES AND SIGNS FOR MAINLINE CLOSURES
15C02-06B	BARRICADES AND SIGNS FOR MAINLINE CLOSURES
15C06-09	SIGNING & MARKING FOR TWO LANE BRIDGES
15D31-03	TRAFFIC CONTROL, TEMPORARY BYPASS ROADWAY
15D38-02A	TEMPORARY TRAFFIC CONTROL SIGN MOUNTING
15D38-02B	ATTACHMENT OF SIGNS TO POSTS

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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.

- $\bigcirc$  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

S.D.D. 8 E 9-6

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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.

TURBIDITY BARRIER MAY BE REMOVED AT THE ENGINEERS DISCRETION, WHEN PERMANENT EROSION CONTROL MEASURES HAVE BEEN ESTABLISHED.

- ① DRIVEN STEEL POSTS, PIPES, OR CHANNELS. LENGTH SHALL BE SUFFICIENT TO SECURELY SUPPORT BARRIER AT HIGH WATER ELEVATIONS.
- 2 SANDBAGS TO BE USED AS ADDITIONAL BALLAST WHEN ORDERED BY THE ENGINEER TO MEET ADVERSE FIELD CONDITIONS. SPACE AS APPROPRIATE FOR SITE CONDITIONS.
- (3) WHEN BARRIER HEIGHT, H. EXCEEDS 8 FT., POST SPACING MAY NEED TO BE DECREASED.
- (4) IN WATERWAYS SUBJECT TO FLUCTUATING WATER ELEVATIONS, PROVISIONS SHOULD BE MADE TO ALLOW THE WATER TO EQUALIZE ON EACH SIDE OF THE BARRIER. THIS MAY BE ACCOMPLISHED BY LEAVING A PORTION OF THE BARRIER OPEN ON THE UPSTREAM END.
- (5) ESTIMATED HIGH WATER ELEVATION DURING CONSTRUCTION PERIOD. MIMIMUM BARRIER HEIGHT SHALL BE 2'GREATER THAN EITHER THE 02 ELEVATION OR THE ESTIMATED HIGH WATER ELEVATION DURING CONSTRUCTION, WICHEVER IS GREATER.
- (6) FLOAT ALTERNATIVE WILL ONLY BE ALLOWED WITH WRITTEN APPROVAL OF THE ENGINEER, AND IS MEANT FOR LOCATIONS WHERE BED ROCK PREVENTS THE INSTALLATION OF POSTS.
- (7) ALLOW SUFFICIENT SLACK VERTICALLY AND HORIZONTALLY SO THAT SEDIMENT BUILD UP WILL NOT SEPARATE OR LOWER THE TURBIDITY BARRIER.
- (8) USE AS DIRECTED BY COAST GUARD OR DNR PERMIT WHEN WORKING IN NAVIGABLE WATERWAYS.





SECTION C-C

TURBIDITY BARRIER DETAIL SHOWING TYPICAL PLACEMENT AT STRUCTURES

# TURBIDITY BARRIER

STATE OF WISCONSIN DEPARTMENT OF TRANSPORTATION

APPROVED

6/04/02 /S/ Beth Cannestra
CHIEF ROADWAY DEVELOPMENT ENGINEER  $\infty$ 

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# TYPICAL NAME PLATE

(BRIDGES, CULVERTS, AND RETAINING WALLS)



NUMBERING DESIGNATION MULTI-UNIT STRUCTURES

# **GENERAL NOTES**

NAME PLATES TO BE INSTALLED ON BRIDGES, CULVERTS, AND RETAINING WALLS SHALL CONFORM TO THE REQUIREMENTS OF SECTION 502.3.11 OF THE STANDARD SPECIFICATIONS.

THE BRIDGE NUMBER AND YEAR BUILT SHOWN ON THIS DRAWING ARE EXAMPLES ONLY. SEE CONSTRUCTION PLANS FOR INDIVIDUAL NUMBERING AND YEAR BUILT.

- 1 EPOXY RESIN SHALL BE FROM AN APPROVED MANUFACTURER AND USED IN ACCORDANCE WITH MANUFACTURER'S RECOMMENDATIONS.
- (2) REHABILITATION OF AN EXISTING STRUCTURE SHOULD USE THE DATE OF ORIGINAL STRUCTURE CONSTRUCTION.



SPREAD OPEN SO THE TOP OF LUG IS 11/4" WIDE

SECTION A-A

ALTERNATE LUG



ALTERNATE LUG

(FOR ATTACHMENT TO PRECAST STRUCTURES)

# NAME PLATE (STRUCTURES)

STATE OF WISCONSIN
DEPARTMENT OF TRANSPORTATION

|--|

3/26/IO /S/ SCOT BECKET

CHIEF STRUCTURAL DEVELOPMENT ENGINEER

D.D. 12 A

3-10



# ROAD CLOSURE BARRICADE DETAIL

APPROACH VIEW



# DETAIL E 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

2

2

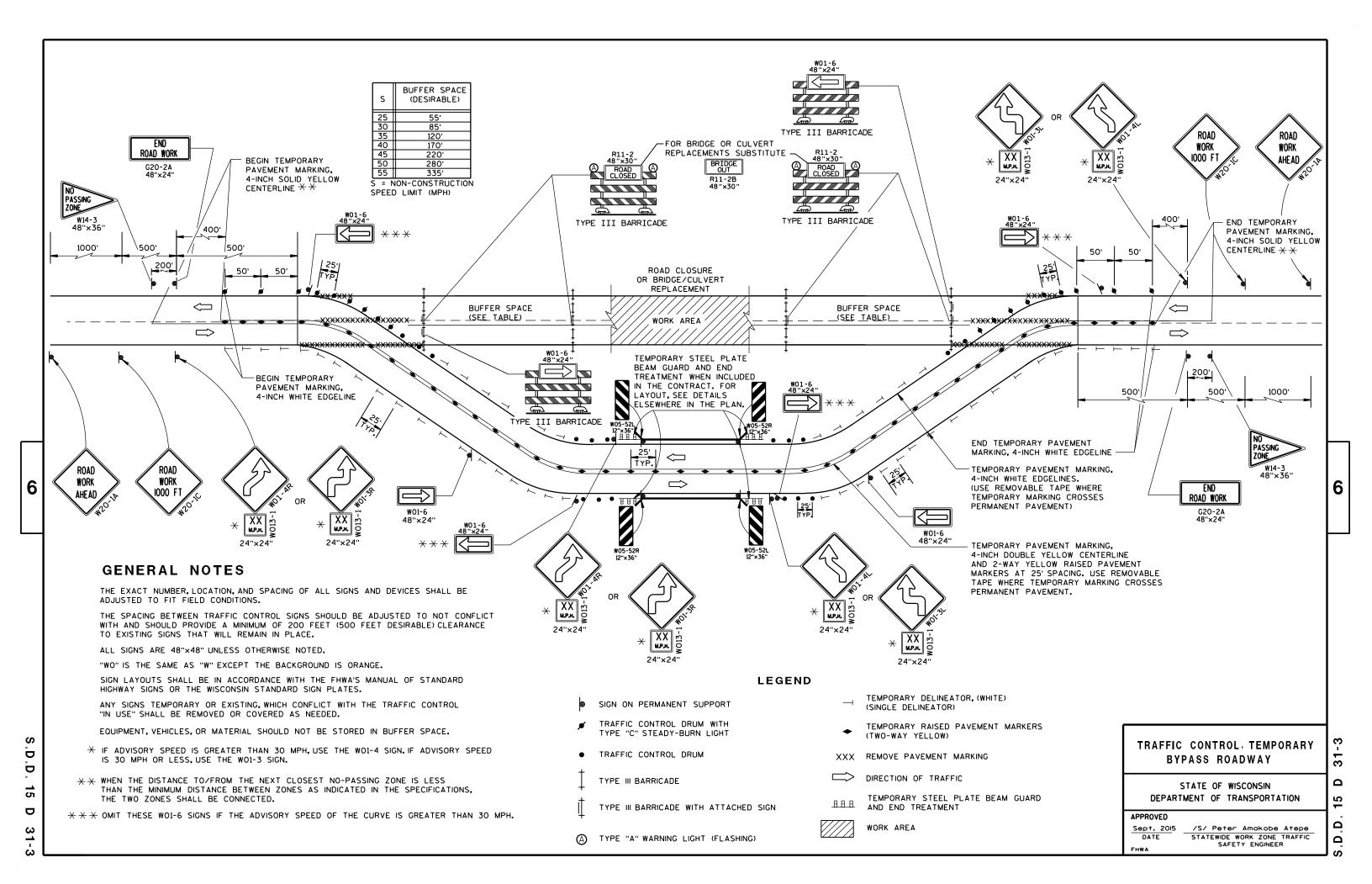
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STATE OF WISCONSIN DEPARTMENT OF TRANSPORTATION

/S/ Peter Amakobe Atepe

STATEWIDE WORK ZONE TRAFFIC SAFETY ENGINEER







TUBULAR STEEL POSTS

AREA OF SIGN INSTALLATION (SO. FT.)	NUMBER OF REQUIRED TUBULAR STEEL POSTS
9 OR LESS	1
GREATER THAN 9 LESS THAN OR EQUAL TO 18	2
GREATER THAN 18 LESS THAN OR EQUAL TO 27	3

SIGNS WIDER THAN 3 FEET OR LARGER THAN 9 SO.FT. SHALL BE MOUNTED ON MULTIPLE POSTS (SEE ABOVE TABLE). SIGNS LARGER THAN 27 SO.FT. SHALL NOT BE MOUNTED ON TUBULAR STEEL POSTS.

#### URBAN AREA

POST MOUNTING DETAIL FOR TEMPORARY TRAFFIC CONTROL FIXED MESSAGE SIGNS

WOOD POST **EMBEDMENT DEPTH** 

AREA OF SIGN INSTALLATION (SQ. FT.)	D (MIN)
20 OR LESS	4'
GREATER THAN 20	5'

4" X 6" WOOD POST

POST SPACING REQUIREM	NUMBER OF			
L	E	WOOD POSTS REQUIRED		
48" OR LESS AND LESS THAN 20 SO.FT.	-	1		
LESS THAN 60"	12"	2		
60" TO 120"	L/5	2		
GREATER THAN 120" LESS THAN 168"	12"	3		
168" AND GREATER	12"	4		

SEE NOTE (3)

RURAL AREA

TEMPORARY TRAFFIC CONTROL SIGN MOUNTING

STATE OF WISCONSIN DEPARTMENT OF TRANSPORTATION

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- 11/2" DIAMETER HOLES

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NUTS, BOLTS AND LAGS USED FOR MOUNTING SIGNS SHALL HAVE HEXAGONAL HEADS AND SHALL BE EITHER:

- A. HOT DIP GALVANIZED IN ACCORDANCE WITH ASTM DESIGNATION: A 153, CLASS D, OR SC 3
- B. ELECTRO-GALVANIZED IN ACCORDANCE WITH ASTM DESIGNATION: B 633, TYPE III, SC 3

THREADS ON BOLTS AND NUTS SHALL BE MANUFACTURED WITH SUFFICIENT ALLOWANCE FOR THE CADMIUM PLATE OR GALVANIZED COATING TO PERMIT THE NUTS TO RUN FREELY ON THE BOLTS.

WOOD POSTS (4" x 4" or 4" x 6")

LAG SCREWS - 3/8" X 3"

MACHINE BOLTS - 1/6" X 6-1/2" OR 7" LENGTH W/ NUTS

SQUARE STEEL POSTS (2" x 2")

MACHINE BOLTS - 3/8" X 3-1/4" LENGTH W/ NUTS

RIVETS - 1/32 " (6605-9-6) BULB-TITE, TRI-FOLD, ALUMINUM BODY/MANDREL O.D. FLANGE .720-.765 INCH, GRIP RANGE .042-.375 INCH

WASHERS (ALL POSTS) -

1-1/4" O.D. X 3/8" I.D. X 1/16" STEEL

1-1/4" O.D. X 3/8" I.D. X .080 NYLON FOR ALL TYPE H SIGNS

\* TWO DIFFERENT FASTENING SYSTEMS ARE SHOWN FOR ILLUSTRATION PURPOSES. ON ANY INDIVIDUAL SIGN, EITHER ONE OR THE OTHER SYSTEM SHALL BE USED. ACTUAL NUMBER OF FASTENERS PER SIGN VARIES WITH THE SIGN AREA. FOR A SINGLE POST INSTALLATION, ALL SIGNS GREATER THAN 9 SQ. FT. REQUIRE THE USE OF 3 FASTENERS.

> ATTACHMENT OF SIGNS TO POSTS

STATE OF WISCONSIN DEPARTMENT OF TRANSPORTATION

APPROVED

June 2017 /S/ Andrew Heidtke DATE WORK ZONE ENGINEER FHWA

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# URBAN ARFA



RURAL AREA (See Note 2)



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



5'-3"(生) A POLICE AND A POL  $D^{-1}$ Outside Edae of Gravel

White Edgeline Location

\*\* 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 or 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  $7'-3''(\pm)$  or 6'-3" (±) depending upon existence of a sub-sign.
- 4. Minimum mounting height for J assemblies (A2-1S) 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 (+) tolerance for mounting height is 3 inches.
- 8. Folding signs shall be mounted at a height of 5'-3'' ( $\pm$ ) or as directd by the Engineer.
- 9. The Double Arrow sign (W12-1) shall be mounted at a height of 2'-3"  $(\pm)$ . The Chevron sign (W1-8), Roundabout Chevron panel (R6-4B), Enhanced Reference Markers, Clearance Markers (W5-52), Mile Markers (D10 series), In Road Object Markers (W5-54) & End of Road Markers (W5-56) shall be mounted at a height of 4'-3'' ( $\pm$ ).

# 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

SHEET NO:

APPROVED

for State Traffic Engineer

DATE 7/23/15

PLATE NO. <u>A4-3.20</u>

FILE NAME : C:\CAEfiles\Projects\tr\_stdplate\A43.DGN

PROJECT NO:

PLOT DATE: 23-JUL-2015 15:21

COUNTY:

PLOT NAME :

PLOT SCALE: 99.237937:1.000000

WISDOT/CADDS SHEET 42



Two different fastening systems are shown for illustration purposes. On any individual sign, either one or the other system shall be used. Actual number of fasteners per sign varies with the sign area, but normally there are two. For a single post installation, all signs greater than 9 sq. ft. require the use of 3 fasteners.

ATTACHMENT OF SIGNS
TO POSTS

WISCONSIN DEPT OF TRANSPORTATION

APPROVED

Nather R Raw
For State Traffic Engineer

DATE <u>8/11/16</u>

PLATE NO. <u>44-8.8</u>

PROJECT NO:

FILE NAME : C:\CAFfiles\Projects\tr stdplote\A48 DCN

PLOT DATE . 11-416-2016 11:35

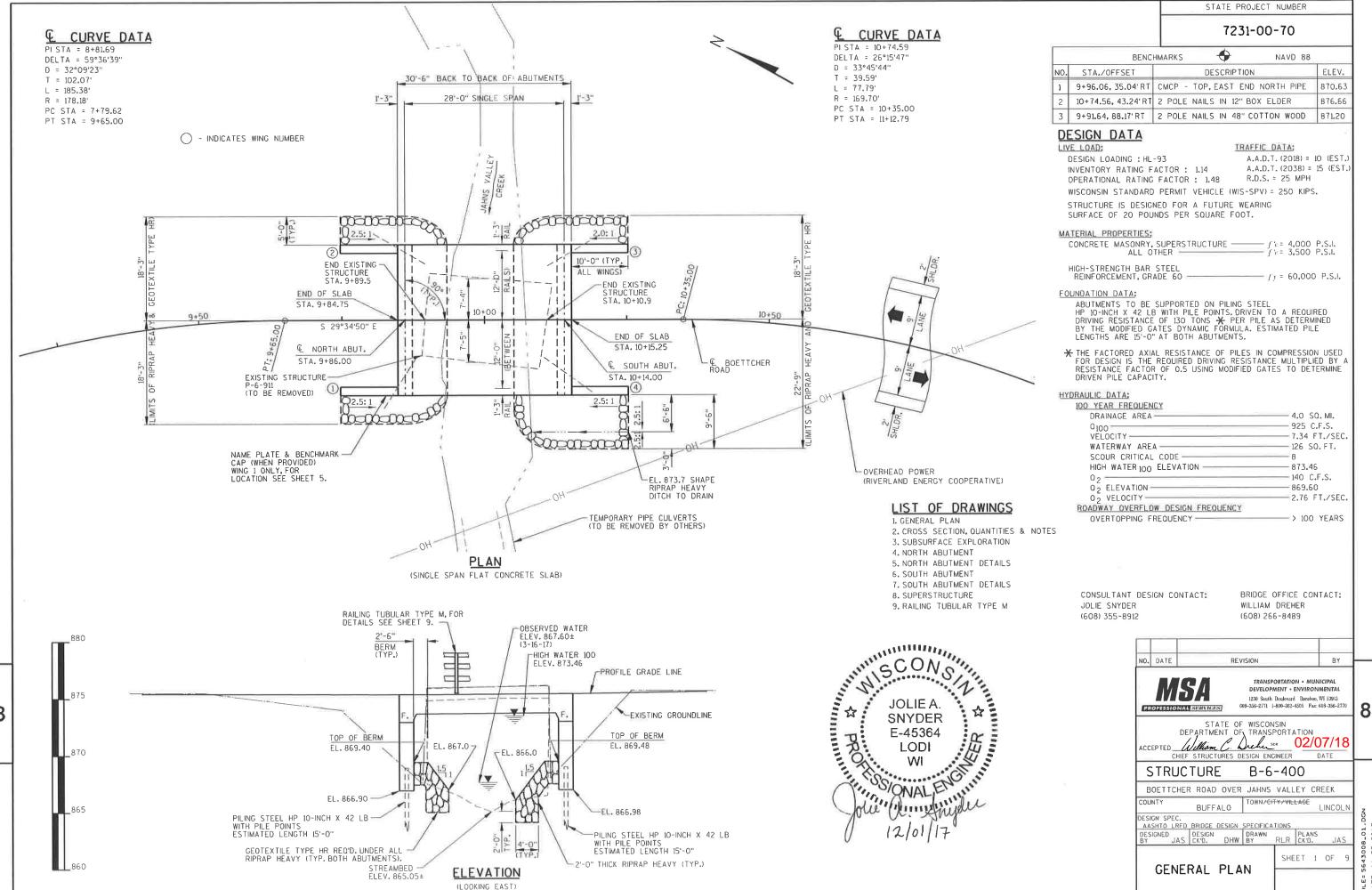
PINT RY \* \$\$ nintuser \$\$

SHEET NO:

| | |







643008\_01.dgn 11/28/2017 4:08:45 PM Jsnyd

7231-00-70

**GENERAL NOTES** 

-RAILING TUBULAR TYPE M (TYP.) FOR DETAILS SEE SHEET 9.

¾" V-GROOVE EXTEND V-GROOVE TO

6" FROM THE FRONT FACE OF ABUTMENT DIAPHRAGM.

DRAWINGS SHALL NOT BE SCALED.

BAR STEEL REINFORCEMENT SHALL BE EMBEDDED 2" CLEAR UNLESS SHOWN OR NOTED OTHERWISE.

THE FIRST DIGIT OF A THREE DIGIT BAR MARK SIGNIFIES THE BAR SIZE.

THE SLOPE OF THE FILL IN FRONT OF THE ABUTMENTS SHALL BE COVERED WITH RIPRAP HEAVY AND GEOTEXTILE TYPE HR TO THE LIMITS SHOWN ON SHEET 1 AND ON THE ABUTMENT SHEETS OR AS DIRECTED BY THE ENGINEER.

THE EXISTING GROUNDLINE SHALL BE THE UPPER LIMITS OF "EXCAVATION FOR STRUCTURES" FOR THE ABUTMENTS.

SLAB FALSEWORK SHALL BE SUPPORTED ON PILES OR THE SUBSTRUCTURE, UNLESS AN ALTERNATE METHOD IS APPROVED BY THE ENGINEER.

THIS STRUCTURE WILL REPLACE THE EXISTING STRUCTURE, P-6-911, A 21.4 FT. LONG, SINGLE SPAN STEEL DECK GIRDER ON FULL RETAINING TIMBER ABUTMENTS WITH 14.8 FT. CLEAR ROAD WIDTH.

(B)-BACKFILL PAY LIMITS, BACKFILL BEYOND BACKFILL PAY LIMITS SHALL BE INCIDENTAL TO EXCAVATION FOR STRUCTURES. LIMITS OF EXCAVATION SHALL BE DETERMINED BY THE CONTRACTOR.

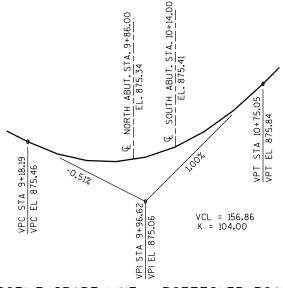
AT THE BACKFACE OF ABUTMENT ALL VOLUME WHICH CAN NOT BE PLACED BEFORE ABUTMENT CONSTRUCTION AND IS NOT OCCUPIED BY THE NEW STRUCTURE SHALL BE BACKFILLED WITH BACKFILL STRUCTURE TYPE A.

EXCAVATION BELOW THE ABUTMENT AND ABUTMENT BEDDING MATERIALS REQUIRES ENGINEER APPROVAL.GEOTEXTILE SHALL BE SET AT THE BOTTOM OF EXCAVATION AND EXTEND 2'-O" ABOVE BOTTOM OF ABUTMENT.

PROTECTIVE SURFACE TREATMENT SHALL BE APPLIED TO THE TOP AND EDGES OF SLAB, TO THE OUTSIDE 1'-O" OF THE UNDERSIDE OF SLAB, TO THE TOPS OF WINGS, TO THE EXPOSED FRONT FACES OF WINGS, AND TO THE END 1'-0" OF THE ABUTMENT BODY FRONT FACES.

ELEVATIONS SHOWN ON THIS PLAN ARE REFERENCED TO USGS NAVD 88 (2012 ADJUSTED). BENCHMARK REFERENCES AT THE PROJECT SITE WERE SET BY THE CONSULTANT USING GPS TECHNOLOGY.

# DOUBLER PLATE - DOUBLER PLATES AT FLANGE PLATE $\frac{3}{8}$ " × 5" × 5" GRIND FLUSH WELD UNDER DOUBLER PLATE -WELD 1/4" 1/ WELD DETAIL FLANGE SHOWN IF DOUBLER PLATE IS PLACED FIRST WEB SIMILAR -PILING STEEL — HP 10-INCH × 42 LB



# TOTAL ESTIMATED QUANTITIES

ITEM NUMBER	вір ітем	UNIT	NORTH ABUT.	SOUTH ABUT.	SUPER	TOTAL	
203.0600.5.01	REMOVING OLD STRUCTURE OVER WATERWAY WITH MINIMAL DEBRIS STATION 10+00	LS	-	-	-	1	
206.1000.01	EXCAVATION FOR STRUCTURES BRIDGES B-6-400	LS	-	-	-	1	
210.1500	BACKFILL STRUCTURE TYPE A	TON	180	180	-	360	
502.0100	CONCRETE MASONRY BRIDGES	CY	32	32	46	110	
502.3200	PROTECTIVE SURFACE TREATMENT	SY	13	13	105	131	
505.0400	BAR STEEL REINFORCEMENT HS STRUCTURES	LB	1600	1600	-	3200	
505.0600	BAR STEEL REINFORCEMENT HS COATED STRUCTURES	LB	1360	1370	8600	11330	
513.4061.01	RAILING TUBULAR TYPE M B-6-400	LF	-	-	106	106	
516.0500	RUBBERIZED MEMBRANE WATERPROOFING	SY	8	8	-	16	
550.0500	PILE POINTS	EACH	4	4	-	8	
550.1100	PILING STEEL HP 10-INCH X 42 LB	LF	60	60	-	120	
606.0300	RIPRAP HEAVY	CY	35	45	-	80	
612.0406	PIPE UNDERDRAIN WRAPPED 6-INCH	LF	85	85	-	170	
645.0111	GEOTEXTILE TYPE DF SCHEDULE A	SY	30	30	-	60	
645.0120	GEOTEXTILE TYPE HR	SY	80	100	-	180	
	NON-BID ITEMS						
	PREFORMED FILLER	SIZE				1/2" & 3/4"	

26'-6"

CROSS SECTION THRU BRIDGE (LOOKING SOUTH)

12'-0"

POINT REFERRED TO ON PROFILE GRADE LINE

2.0%

IN SPAN

5" (TYP.)

€ BOETTCHER ROAD-

12'-0"

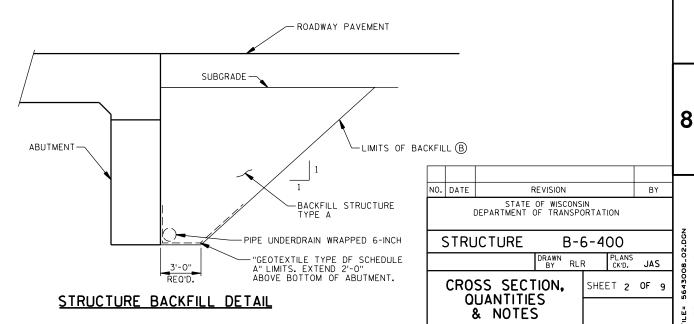
2.0%

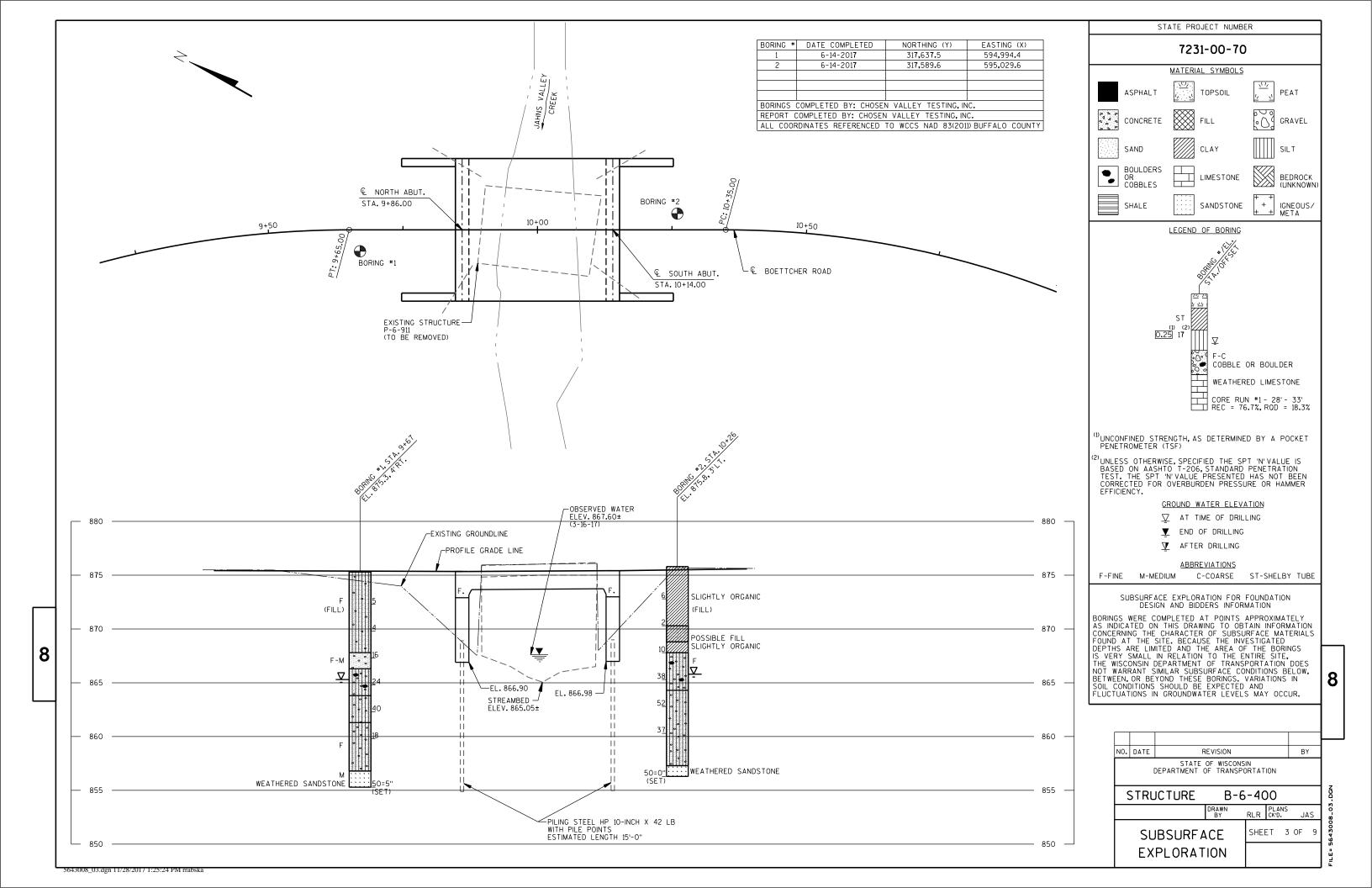
RIPRAP HEAVY-

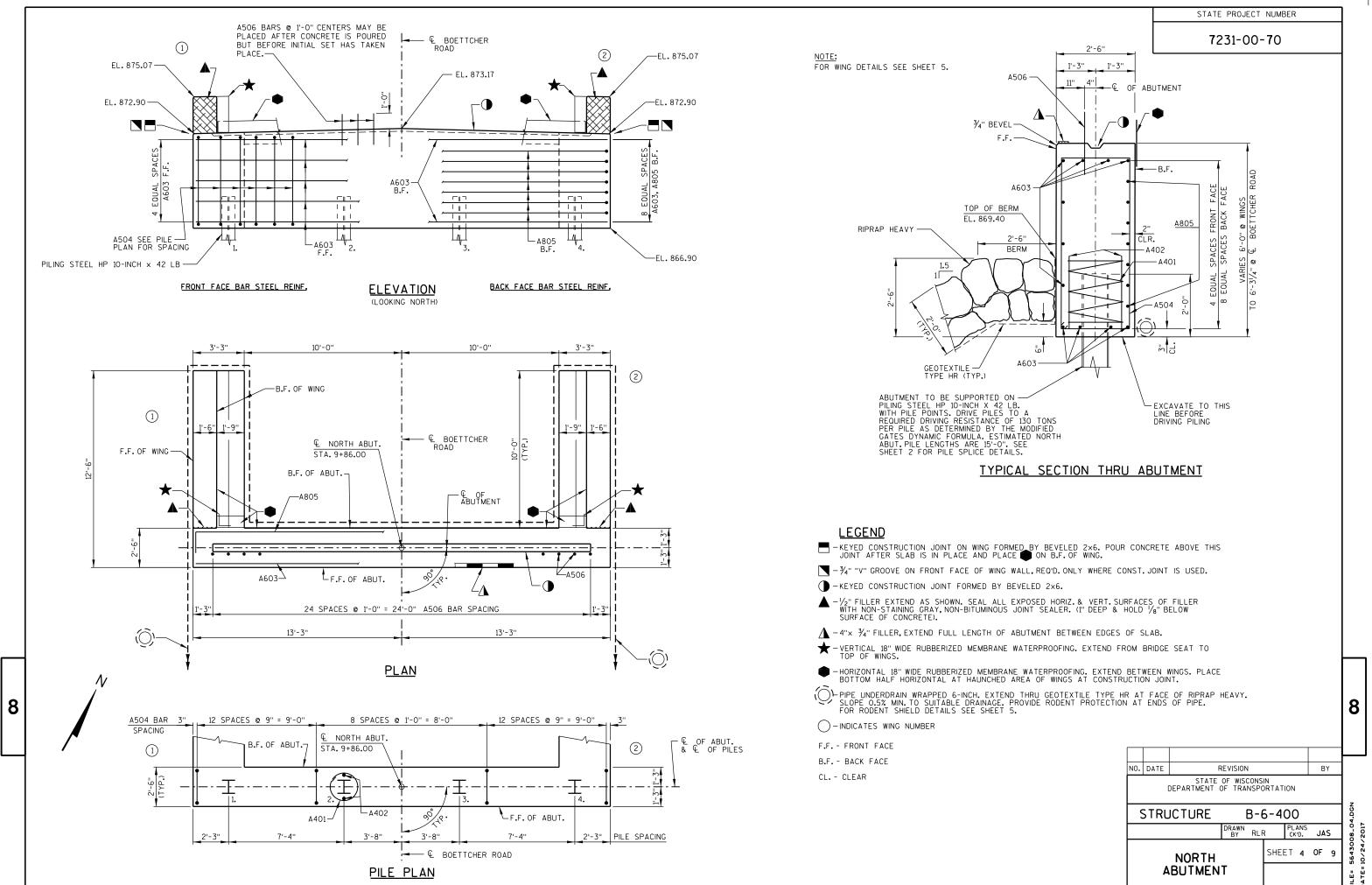
**AT ABUTMENTS** 

PILE SPLICE DETAILS

# PROFILE GRADE LINE - BOETTCHER ROAD









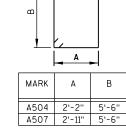
7231-00-70

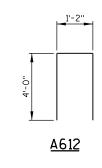


# UNCOATED 1600 LBS. COATED 1360 LBS.

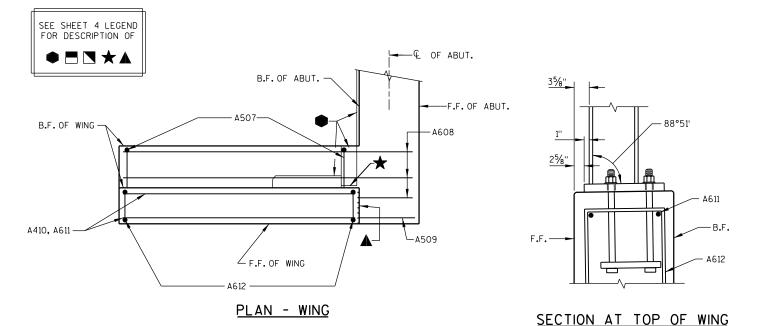
MARK NUMBER REQUIRED		LENGTH	BENT	LOCATION	
WAIN	COATED	UNCOATED	LLINGTIII	DEINI	LOCATION
A401	-	4	28'-0"	Х	ABUT.BODY - 1 SPIRAL WRAP @ EACH PILE
A402	-	8	2'-3"		ABUT. BODY - 2 PER PILE - VERT.
A603	-	11	26'-2"		ABUT. BODY - F.F., TOP & BOTTOM - HORIZ.
A504	-	33	16'-0"	Х	ABUT. BODY - STIRRUPS - VERT.
A805	-	7	28'-5"	Х	ABUT. BODY - B.F HORIZ.
A506	25	-	2'-0"		ABUT.BODY - TOP - DOWELS - VERT.
A507	20	-	17'-6"	Х	WINGS - BASE - STIRRUP - VERT.
A608	16	-	12'-0"		WINGS - BASE - B.F. & TOP - HORIZ.
A509	14	-	12'-0"		WINGS - BASE - F.F HORIZ.
A410	8	-	9'-7"		WINGS - TOP - F.F. & B.F HORIZ.
A611	4	-	9'-7"		WINGS - TOP - F.F. & B.F HORIZ.
A612	28	-	8'-10"	Х	WINGS - TOP - STIRRUP - VERT.

DIMENSIONS IN BENDING DETAILS ARE OUT TO OUT OF BAR.





A401
(5 SPIRAL WRAPS)



-NAME PLATE LOCATION

ELEVATIONS ARE GIVEN -

F.F.-

A410-

A509-

A608

∠<sub>A507</sub>

3'-3"

SECTION A-A THRU WING

AT THE F.F. OF WING.

-B.F. OF ABUT.

**ELEVATION VIEW** 

-BENCH MARK (IF FURNISHED) PLACE BEHIND RAILS (WING 1 ONLY)

-EL.866.90

NOTE:

WING 1 SHOWN

WING 2 SIMILAR

— EL. 875.07

#### RODENT SHIELD NOTES:

ORIENT SHIELD SO SLOTS ARE VERTICAL.

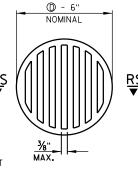
-2% SLOPE ACROSS TOP OF WING WITH 3/8" DROP FROM B.F. TO F.F.

A608

THE RODENT SHIELD SHALL BE A PVC GRATE SIMILAR TO THIS DETAIL.

THE GRATE IS COMMERCIALLY AVAILABLE AS A FLOOR STRAINER.

A PIPE COUPLING IS REQUIRED FOR THE ATTACHEMENT OF THIS SHIELD TO THE PIPE UNDERDRAIN. THE SHIELD SHALL BE FASTENED TO THE PIPE COUPLING WITH TWO OR MORE NO. 10 × 1-INCH STAINLESS STELL SHEET METAL SCREWS. THE RODENT SHIELD, PIPE COUPLING AND SCREWS SHALL BE INCLUDED IN THE BID ITEM "PIPE UNDERDRAIN WRAPPED 6-INCH".

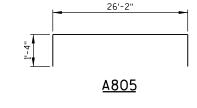




# SECTION RS-RS

## RODENT SHIELD

① - DIMENSIONS ARE APPROXIMATE. THE GRATE IS SIZED TO FIT INTO A PIPE COUPLING.



NO. DATE REVISION BY

STATE OF WISCONSIN
DEPARTMENT OF TRANSPORTATION

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₩ - FOR RAIL POST ANCHOR DETAILS, SEE SHEET 9.

EL. 875.06 -

A410 F.F.

& B.F.

10'-0" WING LENGTH

11 SPA. @ 9"= 8'-3" A612 BAR SPACING

EL.872.90 —

2 SPA.@ 3'-9" = 7'-6"

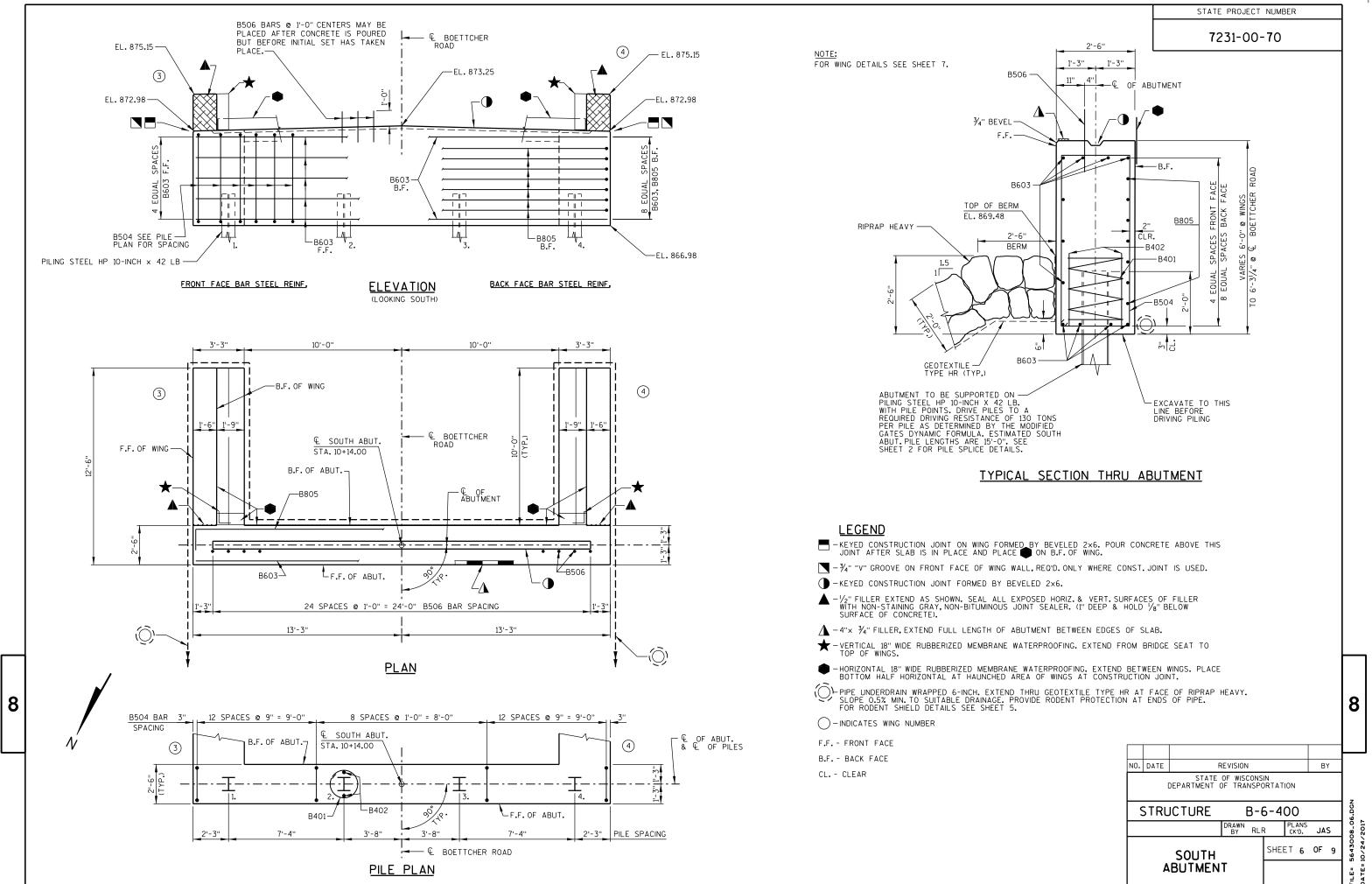
A509 F.F.

A608 B.F.

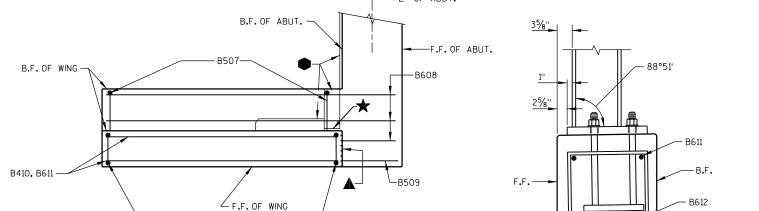
A507-

9 SPA.@ 1'-0" = 9'-0" A507 STIRRUP SPACING

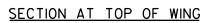
**ELEVATION - WING** 



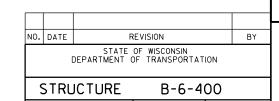
STATE PROJECT NUMBER 7231-00-70 ₩ - FOR RAIL POST ANCHOR DETAILS, SEE SHEET 9. 10'-0" WING LENGTH UNCOATED 1600 LBS. BILL OF BARS (SOUTH ABUTMENT) COATED 1370 LBS. 11 SPA. @ 9"= 8'-3" B612 BAR SPACING 17/2" NUMBER REQUIRED MARK LENGTH BENT LOCATION 2 SPA.@ 3'-9" = 7'-6" COATED UNCOATED -2% SLOPE ACROSS TOP OF WING WITH 3/8" DROP FROM B.F. TO F.F. B401 28'-O" X ABUT.BODY - 1 SPIRAL WRAP @ EACH PILE B402 ABUT. BODY - 2 PER PILE - VERT. EL. 875.20 — ELEVATIONS ARE GIVEN -← EL. 875.15 B603 ABUT. BODY - F.F., TOP & BOTTOM - HORIZ. 26'-2" AT THE F.F. OF WING. B504 33 16'-0" ABUT. BODY - STIRRUPS - VERT. B805 ABUT. BODY - B.F. - HORIZ. 28'-5" B506 ABUT. BODY - TOP - DOWELS - VERT. B507 20 17'-6" WINGS - BASE - STIRRUP - VERT. B608 WINGS - BASE - B.F. & TOP - HORIZ. B410 F.F. 12'-0" B410-16 & B.F. B509 14 WINGS - BASE - F.F. - HORIZ. B410 9'-7" WINGS - TOP - F.F. & B.F. - HORIZ. WINGS - TOP - F.F. & B.F. - HORIZ. B611 4 9'-7" B612 28 9'-0" X WINGS - TOP - STIRRUP - VERT. B608 DIMENSIONS IN BENDING DETAILS ARE OUT TO OUT OF BAR. EL.872.98 — -B608 B509 F.F. B509-B608 B.F. **⋖**B ∠<sub>B507</sub> - B507 — - EL. 866.98 3'-3" 9 SPA.@ 1'-0" = 9'-0" B507 STIRRUP SPACING Α NOTE: **ELEVATION - WING** SECTION B-B THRU WING WING 3 SHOWN <u>B401</u> MARK Α В WING 4 SIMILAR (5 SPIRAL WRAPS) <u>B612</u> B504 2'-2" 5'-6" B507 2'-11" 5'-6" 26'-2" ← Q OF ABUT. B.F. OF ABUT. <u>B805</u> -F.F. OF ABUT. - B507-B.F. OF WING --B608



PLAN - WING







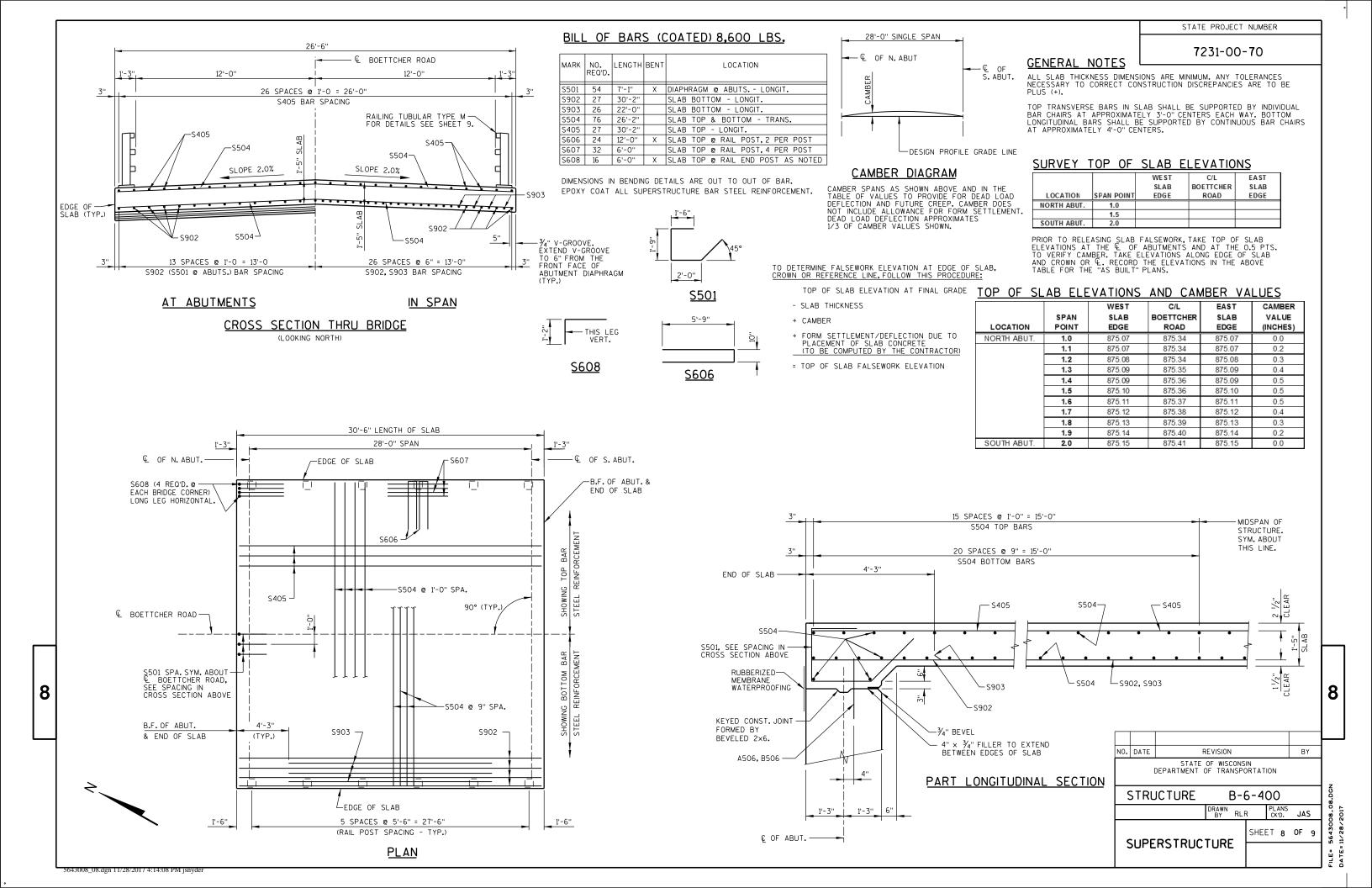
STRUCTURE B-6-400

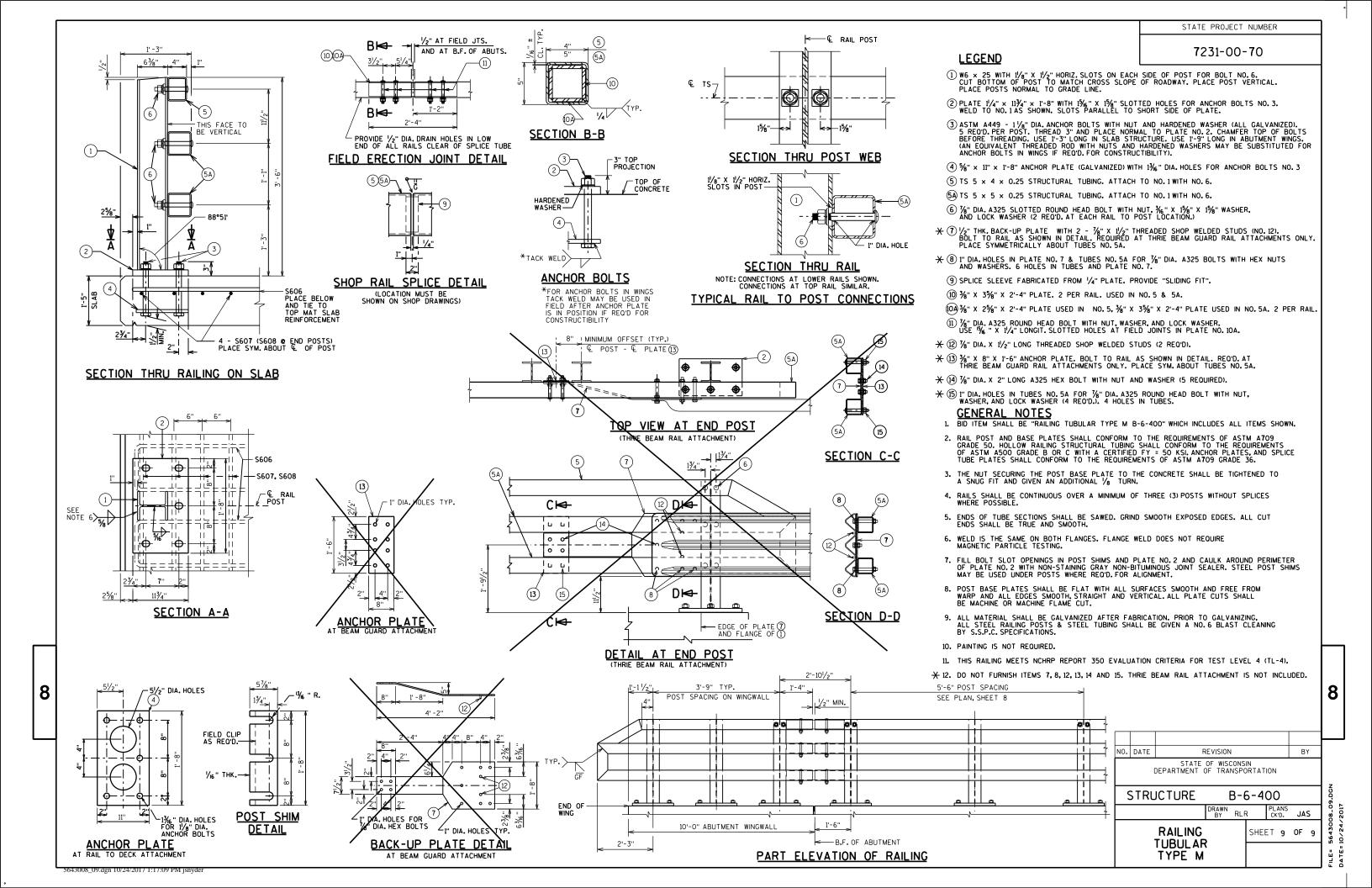
DRAWN RLR	PLANS JAS
SOUTH	SHEET 7 OF 9
ABUTMENT	DETAILS

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EARTHWORK PROJECT I.D. 7231-00-70

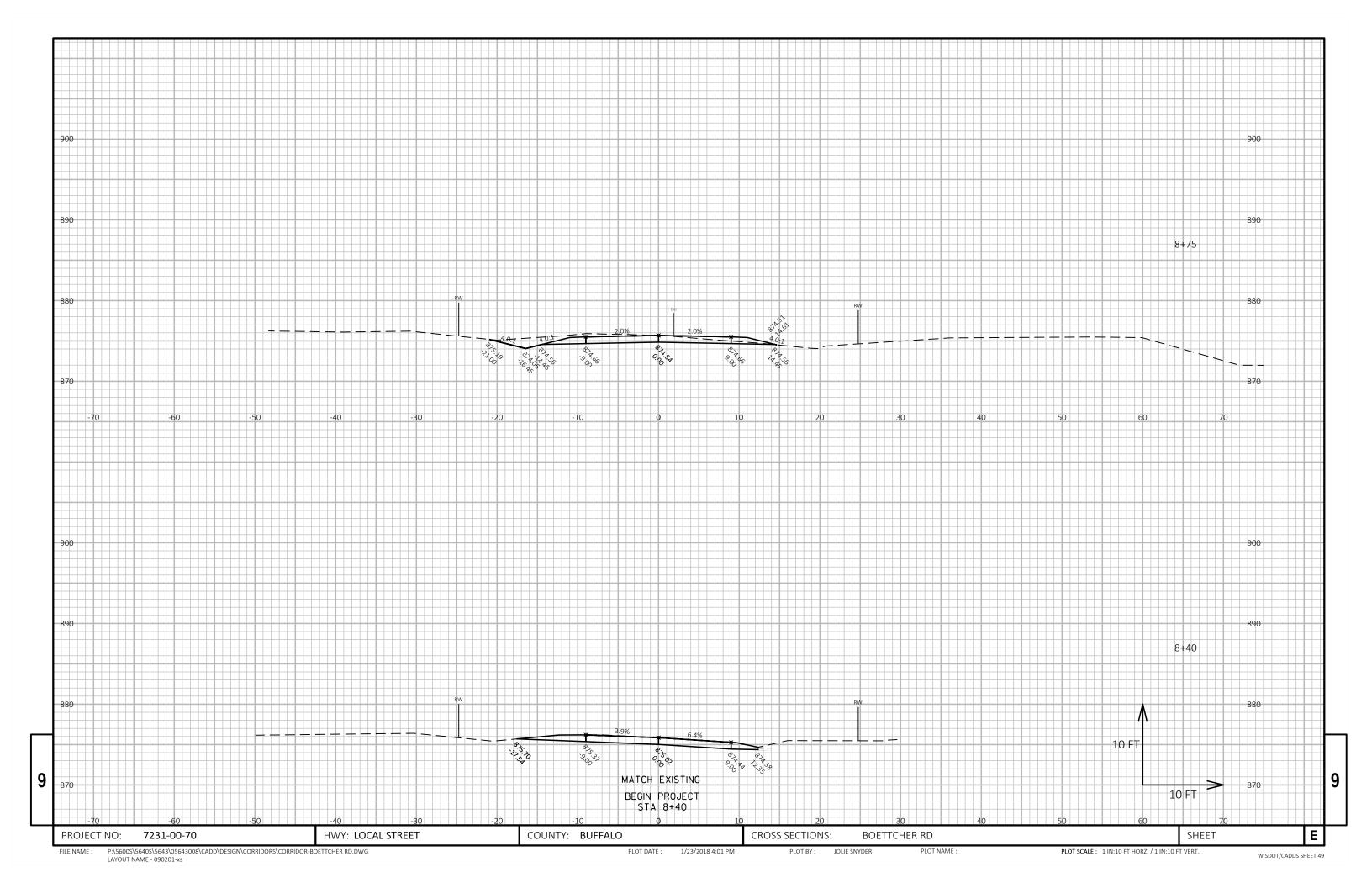
		AREA (SF)			Increm	Incremental Vol (CY) (Unadjusted)			Cumulative Vol (CY)	
STATION	Distance	Cut	Rock Exc	Fill	Cut	Rock Exc	Fill (1)	Cut 1.00	Expanded Fill 1.3	Mass Ordinate
8+40		22	0	0	0	0	0	0	0	0
8+75.	35.00	26	0	0	31	0	0	31	0	31
9+00.	25.00	29	0	0	26	0	0	57	0	57
9+35	35.00	26	0	0	35	0	0	92	0	92
9+50	15.00	23	0	0	14	0	0	106	0	106
9+85	34.75	14	0	23	24	0	15	130	19	111
				STI	RUCTURE B-4-600					
10+15		18	0	10	0	0	0	0	0	0
10+50.	34.75	53	0	0	46	0	6	46	8	37
10+53.	3.00	48	0	0	6	0	0	51	8	43
10+65	12.00	40	0	0	19	0	0	71	8	62
11+00	35.00	20	0	0	39	0	0	110	8	101
11+25	25.00	21	0	0	19	0	0	129	8	120
					259	0	21			

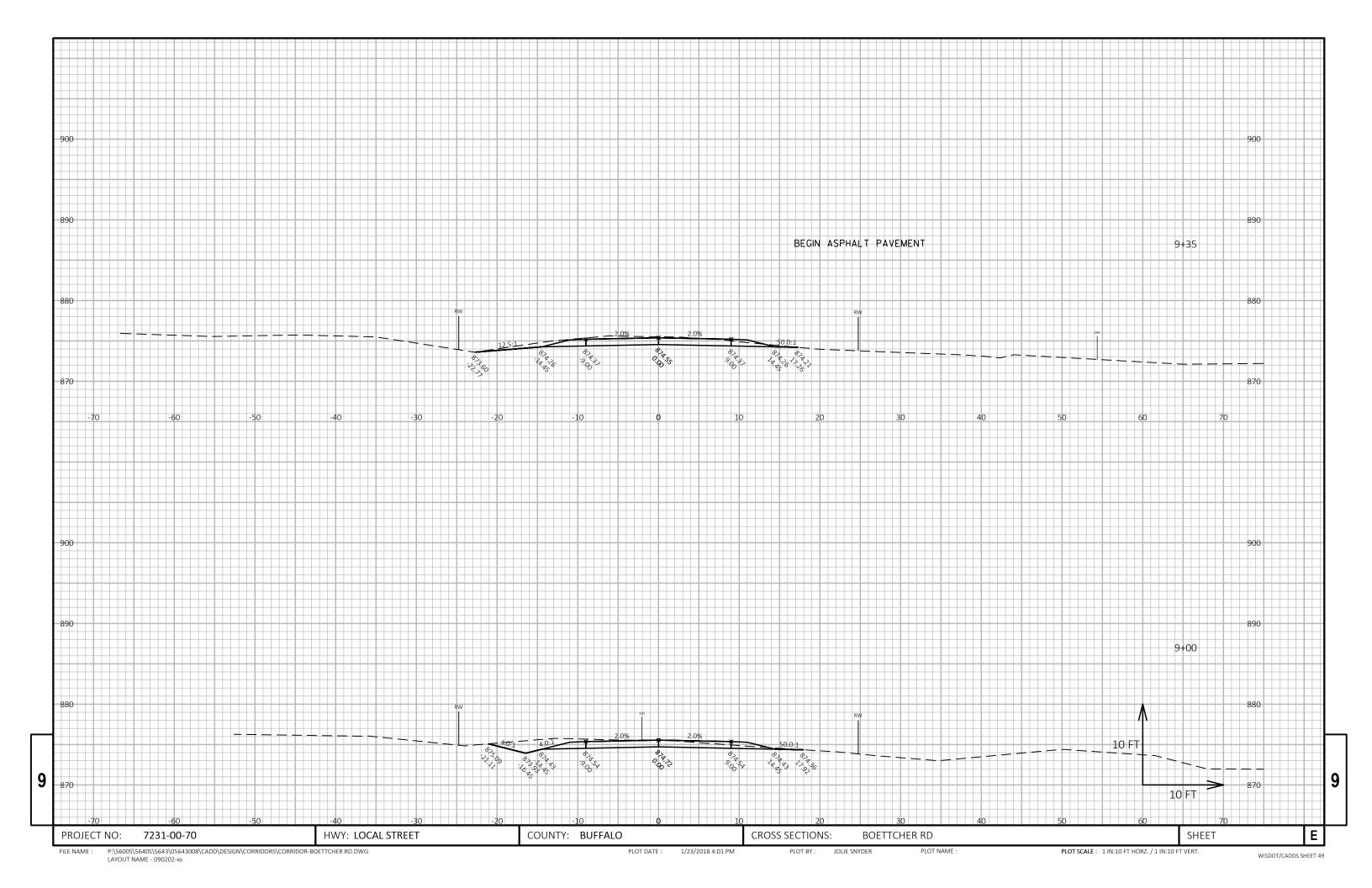
(1) - NOT A BID ITEM - FOR INFORMATIONAL PURPOSE ONLY

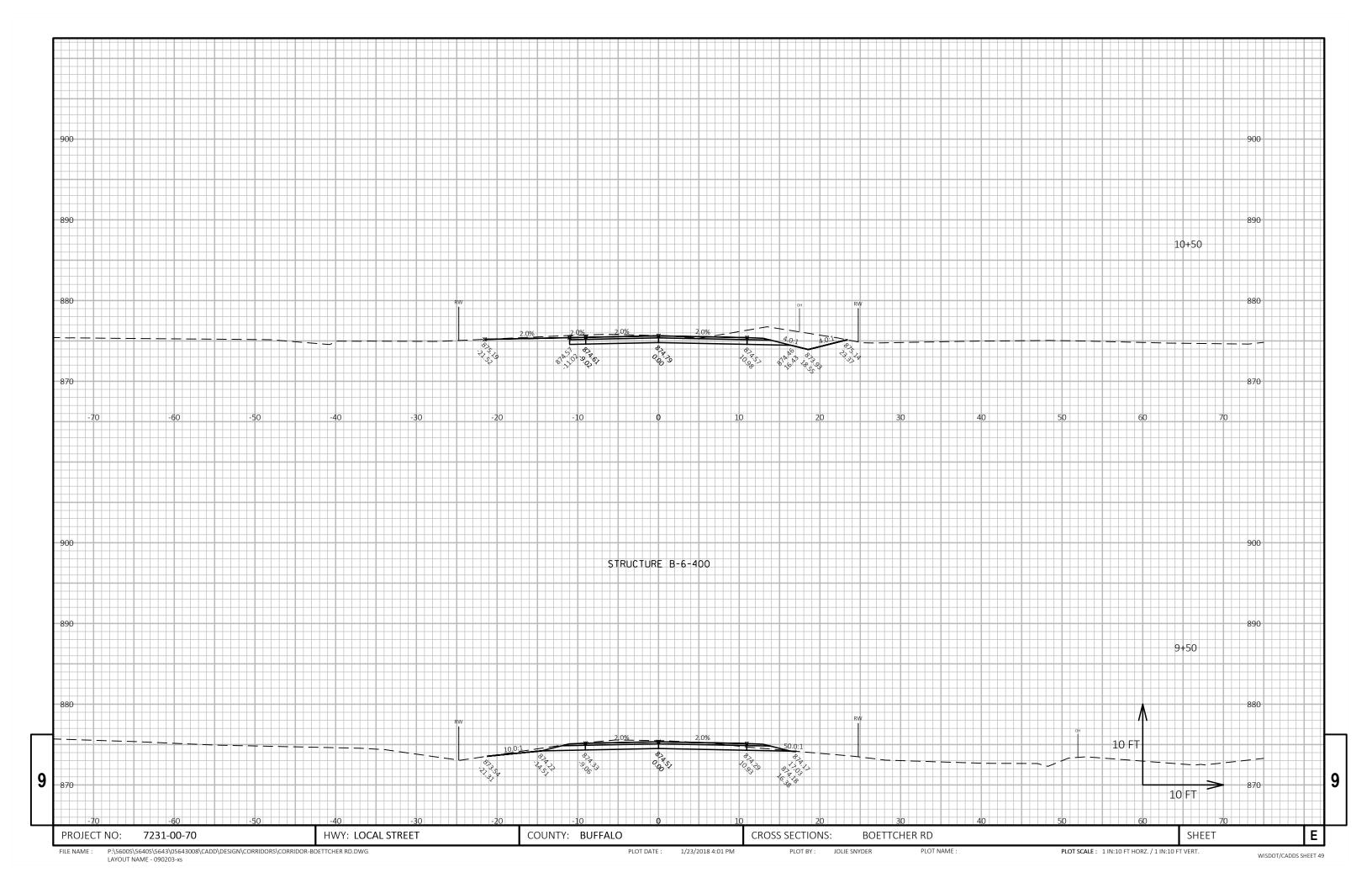
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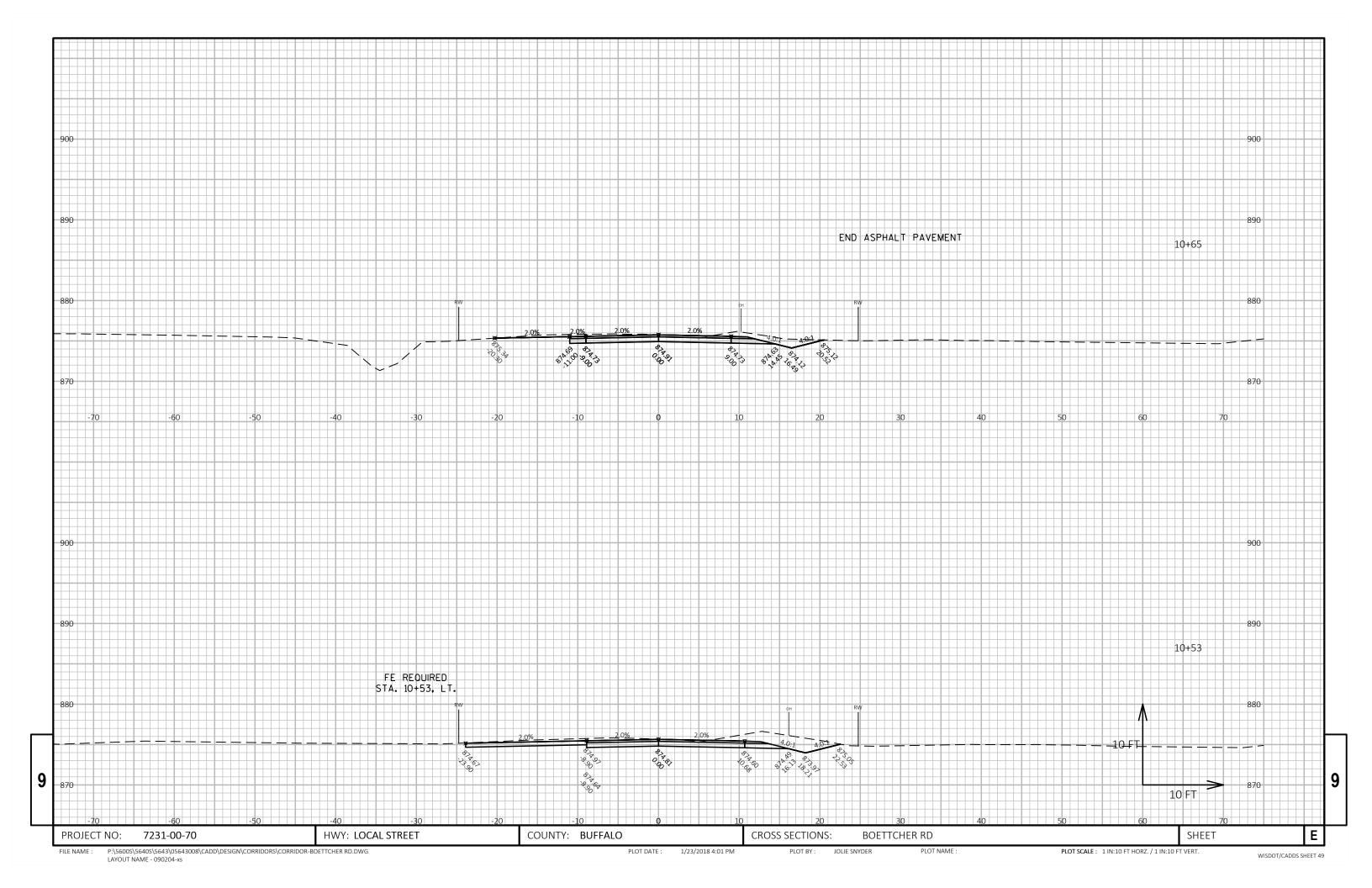
PROJECT NO:7231-00-70 HWY:LOCAL STREET COUNTY:BUFFALO EARTHWORK SHEET E

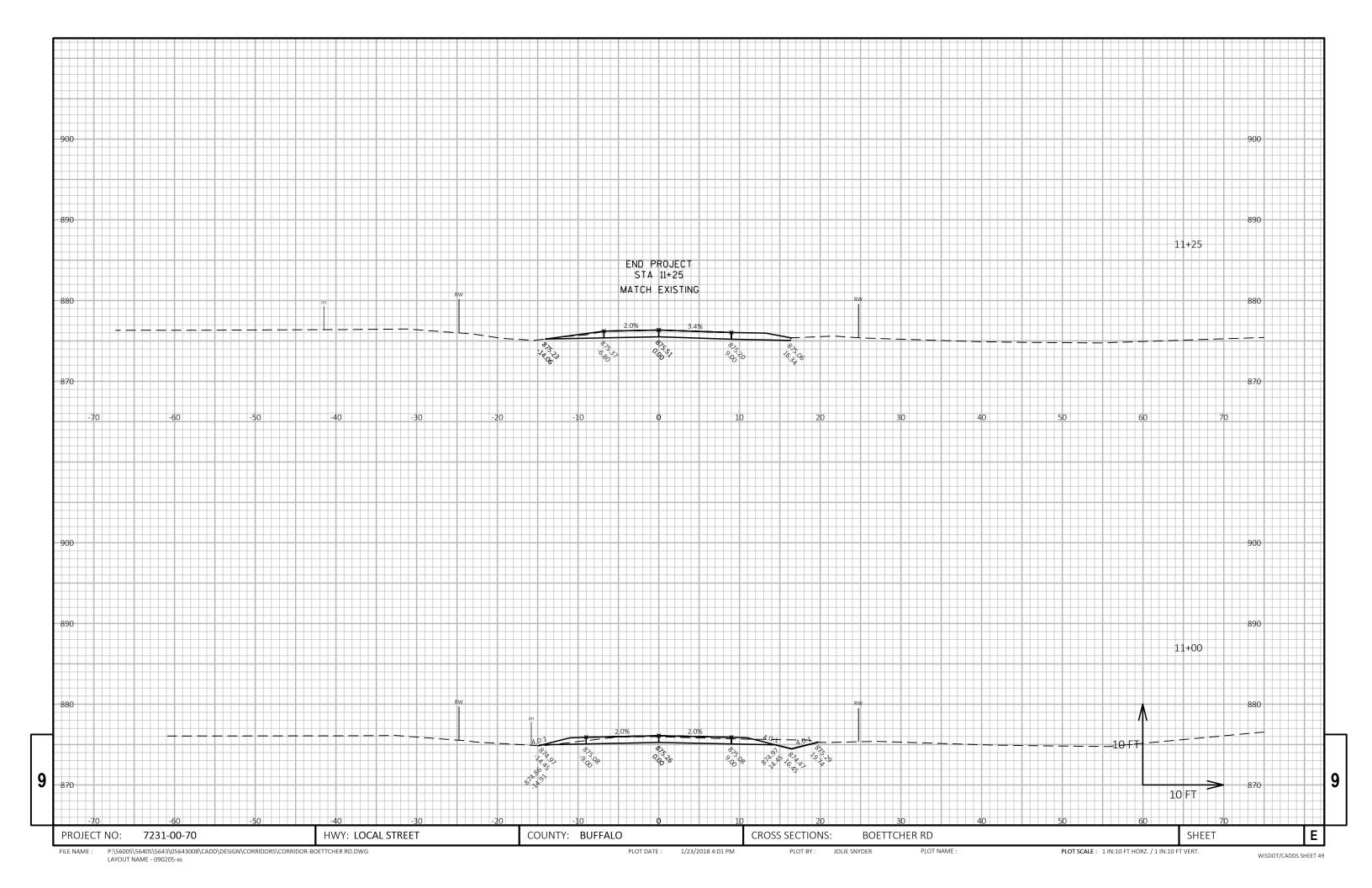
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# Wisconsin Department of Transportation

Dedicated people creating transportation solutions through innovation and exceptional service.

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