EAU

Section No.

TOTAL SHEETS =

Estimate of Quantities

Right of Way Plat

Plan and Profile

Cross Sections

Miscellaneous Quantities

Standard Detail Drawings

Computer Earthwork Data

PROJECT ID: WITH: 8640-00-73

640-00-7

COUNTY:

DUNN

SEPTEMBER 2022 ORDER OF SHEETS STATE OF WISCONSIN Section No. 1 Title Section No. 2 Typical Sections and Details (Includes Erosion Control) DEPARTMENT OF TRANSPORTATION

PLAN OF PROPOSED IMPROVEMENT

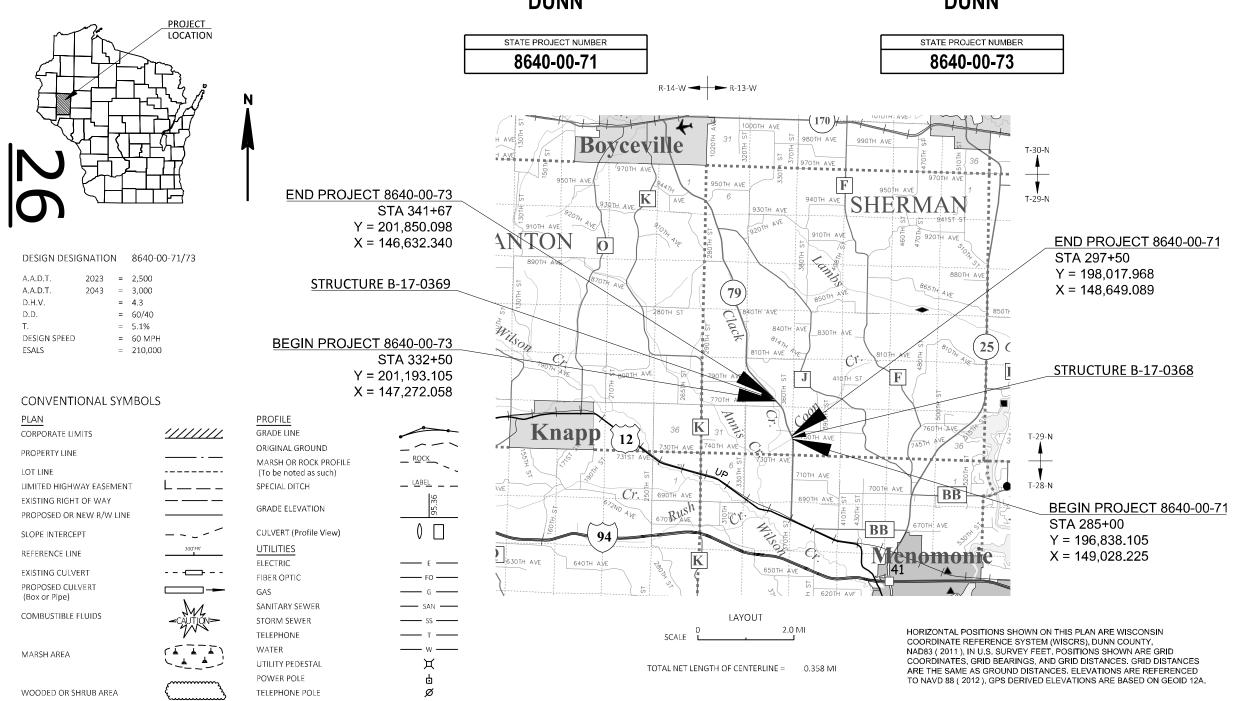
| STATE PROJECT | FEDERAL PROJECT | |
|---------------|-----------------|----------|
| STATE PROJECT | PROJECT | CONTRACT |
| 8640-00-71 | WISC 2022525 | 1 |
| 8640-00-73 | WISC 2022526 | 1 |
| | | |
| | | |

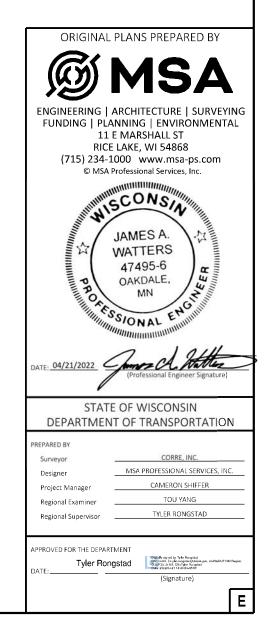
MENOMONIE-BOYCEVILLE MENOMONIE-CONNORSVILLE

COON CREEK BRIDGE B-17-0368

CLACK CREEK BRIDGE B-17-0369

STH 79 DUNN STH 79 DUNN





FILE NAME : P:\90\$\93\00093461\CADD\C3D\\$HEET\$PLAN\010101-TI.DWG

PLOT DATE: 4/21/2022 1:24 PM

PL∩T RV ·

JAMES WATTERS

PLOT NAME

STANDARD ABBREVIATIONS

| AC | ACRE | F/L | FLOW LINE | SALV | SALVAGED |
|------------|---------------------------------|----------|---|-------------|----------------------------|
| AGG | AGGREGATE | FT | FOOT | SAN | SANITARY SEWER |
| < | ANGLE | GN | GRID NORTH | SECT | SECTION |
| ASPH | ASPHALTIC | HR | HANDICAP RAMP | SHLDR | SHOULDER |
| AC | ASPHALT CEMENT | HT | HEIGHT | SW | SIDEWALK |
| ADT | AVERAGE DAILY TRAFFIC | CWT | HUNDREDWEIGHT | S | SOUTH |
| B & B | BALLED AND BURLAPPED | HYD | HYDRANT | SB | SOUTHBOUND |
| BM | BENCH MARK | IN DIA | INCH DIAMETER | SPECS | SPECIFICATIONS |
| CB | CATCH BASIN | INL | INLET | SQ | SQUARE |
| `OR C/L | CENTER LINE | ID | INSIDE DIAMETER | SF OR SQ FT | SQUARE FEET |
| C-C | CENTER EINE CENTER TO CENTER | | INTERSECTION ANGLE | SY | SQUARE YARD |
| CONC | CONCRETE | ΙE | INVERT ELEVATION | SSPRC | STORM SEWER |
| CO | COUNTY | IP | IRON PIPE OR PIN | | PIPE REINFORCED CONCRETE |
| CTH | COUNTY TRUNK HIGHWAY | JCT | JUNCTION | STD | STANDARD |
| CY | CUBIC YARD | L | LENGTH OF CURVE | SDD | STANDARD DETAIL DRAWINGS |
| CULV | CULVERT | LF | LINEAR FOOT | STH | STATE TRUNK HIGHWAYS |
| CP | CULVERT PIPE | LC | LONG CHORD OF CURVE | STA | STATION |
| CPRC | CULVERT PIPE | LCB | LONG CHORD BEARING | SS | STORM SEWER |
| | REINFORCED CONCRETE | LS | LUMP SUM | T | TANGENT |
| C & G | CURB AND GUTTER | MH | MANHOLE | TEL | TELEPHONE |
| D | DEGREE OF CURVE | N | NORTH | TEMP | TEMPORARY |
| DHV | DESIGN HOUR VOLUME | Y | NORTH GRID COORDINATE | TLE | TEMPORARY LIMITED EASEMENT |
| DIA OR I | DIAMETER | OE | OUTLET ELEVATION | T | TON |
| DIST | DISTRICT | OL | OUT LOT | TC | TOP OF CURB |
| DWY | DRIVEWAY | OD | OUTSIDE DIAMETER | TN | TOWN |
| E | EAST | ОН | OVERHEAD LINES | TRANS | TRANSITION |
| X | EAST GRID COORDINATE | PAVT | PAVEMENT | T | TRUCKS (percent of) |
| EB | EASTBOUND | PLE | PERMANENT LIMITED EASEMENT | TYP | TYPICAL |
| ELEC | ELECTRIC | PC | POINT OF CURVATURE | UNCL | UNCLASSIFIED |
| EL OR ELEV | ELEVATION | PI | POINT OF CONVATORE POINT OF INTERSECTION | USH | UNITED STATES HIGHWAY |
| EMB | EMBANKMENT | PT | POINT OF TANGENCY | VAR | VARIABLE |
| FW | ENDWALL | PCC | PORTLAND CEMENT CONCRETE | VERT | VERTICAL |
| ESALS | EQUIVALENT SINGLE | LB | POUND | VC | VERTICAL CURVE |
| 207 (20 | AXLE LOADS | PE | PRIVATE ENTRANCE | VOL | VOLUME |
| EXC | EXCAVATION | R OR RAD | RADIUS | WM | WATER MAIN |
| EBS | EXCAVATION BELOW | RR | RAILROAD | WV | WATER WAIN |
| | SUBGRADE | R | RANGE | W | WEST |
| EXIST | EXISTING | ~ OR R/L | REFERENCE LINE | WB | |
| EXP | EXPANSION | REQD | REQUIRED | YD | WESTBOUND YARD |
| F-F | FACE TO FACE | RT | RIGHT | 10 | TAND |
| FERT | FERTILIZER | R / W | RIGHT-OF-WAY | | |
| FE | FIELD ENTRANCE | RD | ROAD | | |
| | | | | | |

COMMUNICATIONS

AT&T WISCONSIN RICK PODOLAK 304 S. DEWEY ST. EAU CLAIRE, WI 54701 PHONE: (715) 410-0656 EMAIL: RP4514@ATT.COM

ELECTRIC

DUNN ENERGY COOPERATIVE MIKE ANDRASCHKO N5725 600TH ST, P.O. BOX 220 MENOMONIE, WI 54751 PHONE: (715) 232-6240 EMAIL: MANDRA@DUNNENERGY.COM



RUNOFF COEFFICIENT TABLE

| | | | | | OUP | | | | | | | |
|-------------------|---------|--------|-------------|-------|---------|-------------|------|---------|-------------|------|--------------|--------------|
| | | A | 4 | | В | ! | | C D | | | | |
| | SLOF | E RANG | E (PERCENT) | SLOPI | E RANGI | E (PERCENT) | SLOP | E RANGI | E (PERCENT) | SLOF | E RANGE | (PERCENT) |
| LAND USE: | 0-2 | 2-6 | 6 & OVER | 0-2 | 2-6 | 6 & OVER | | 2-6 | 6 & OVER | 0-2 | 2-6 | 6 & OVER |
| MEDIAN STRIP TURF | 0.19 | 0.20 | 0.24 | 0.19 | 0.22 | 0.26 | 0.20 | 0.23 | 0.30 | 0.20 | 0.25 0.32 | 0.30 0.40 |
| SIDE SLOPE TURF | | | 0.25 | | | 0.27 | | | 0.28 | | | 0.30 0.38 |
| PAVEMENT: | | | | | | 0.40 - 0.60 | | | | | | |
| ASPHALT: | | | | | | 0.70 - 0.95 | | | | | | |
| CONCRETE: | | | | | | 0.80 - 0.95 | | | | | | |
| BRICK: | | | | | | 0.70 - 0.80 | | | | | | |
| DRIVES, WALKS: | | | | | | 0.75 - 0.85 | | | | | | |
| ROOFS: | | | | | | 0.75 - 0.95 | | | | | | |
| GRAVEL ROADS, SI | HOULDER | S | | | | 0.40 - 0.60 | | | | | | |

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 = 5.45 ACRES

TOTAL AREA EXPECTED TO BE DISTURBED BY CONSTRUCTION ACTIVITIES = 3.50 ACRES

GENERAL NOTES

NO TREES 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 AREA THAT ARE NOT SHOWN.

PLAN DETAIL ORDER

GENERAL NOTES
TYPICAL SECTIONS
CONSTRUCTION DETAILS
EROSION CONTROL
PAVEMENT MARKING & SIGNING
DETOUR PLAN

AS-BUILTS

PROJECT: 0017-74-00 (1987) PROJECT: 8640-04-71 (1991) PROJECT: 864-00-70 (2010)

DNR LIASON

DEPARTMENT OF NATURAL RESOURCES LEAH NICOL 1300 WEST CLAIREMONT AVENUE EAU CLAIRE, WI 54701 PHONE: (715) 934-9014

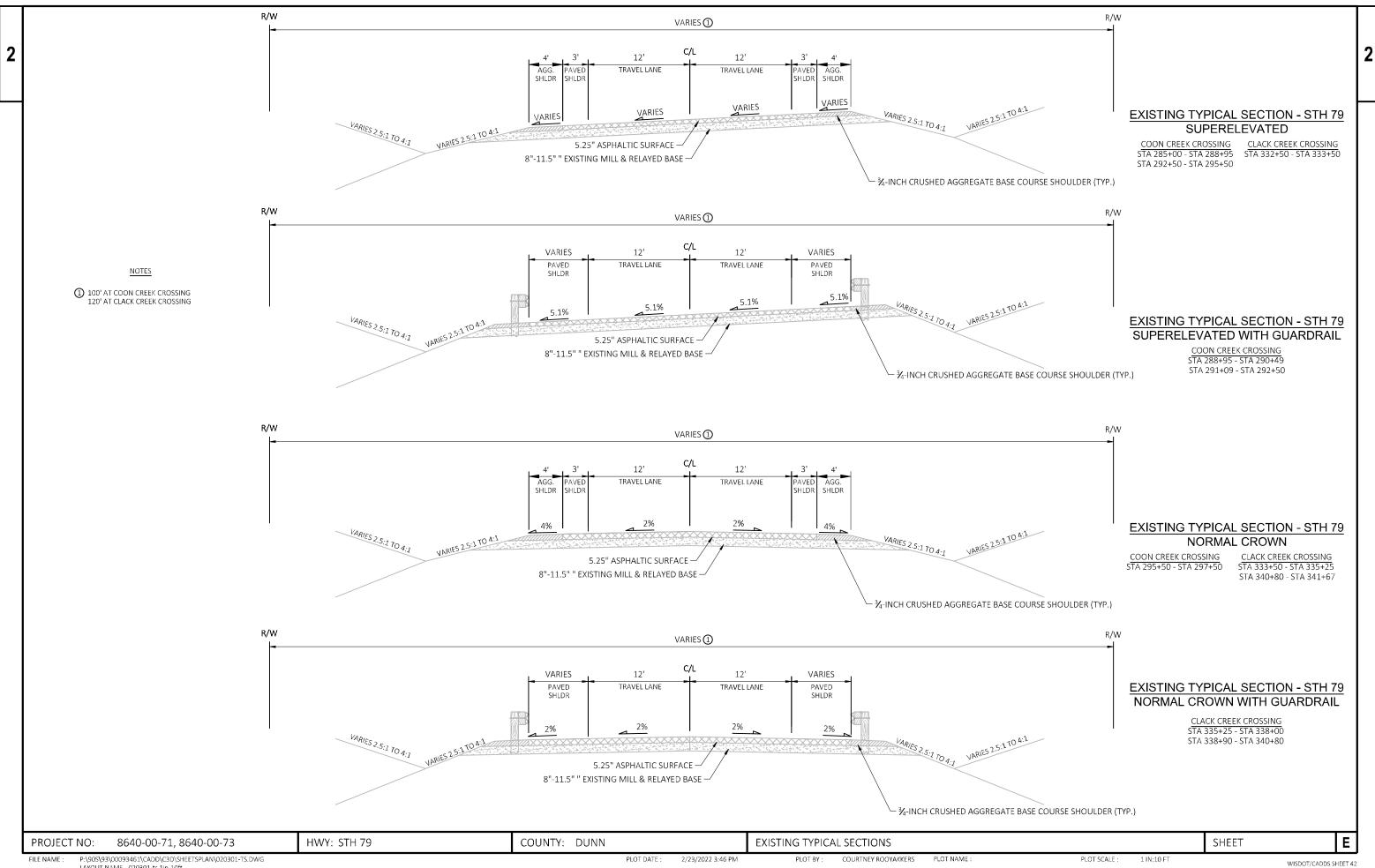
EMAIL: LEAH.NICOL@WISCONSIN.GOV

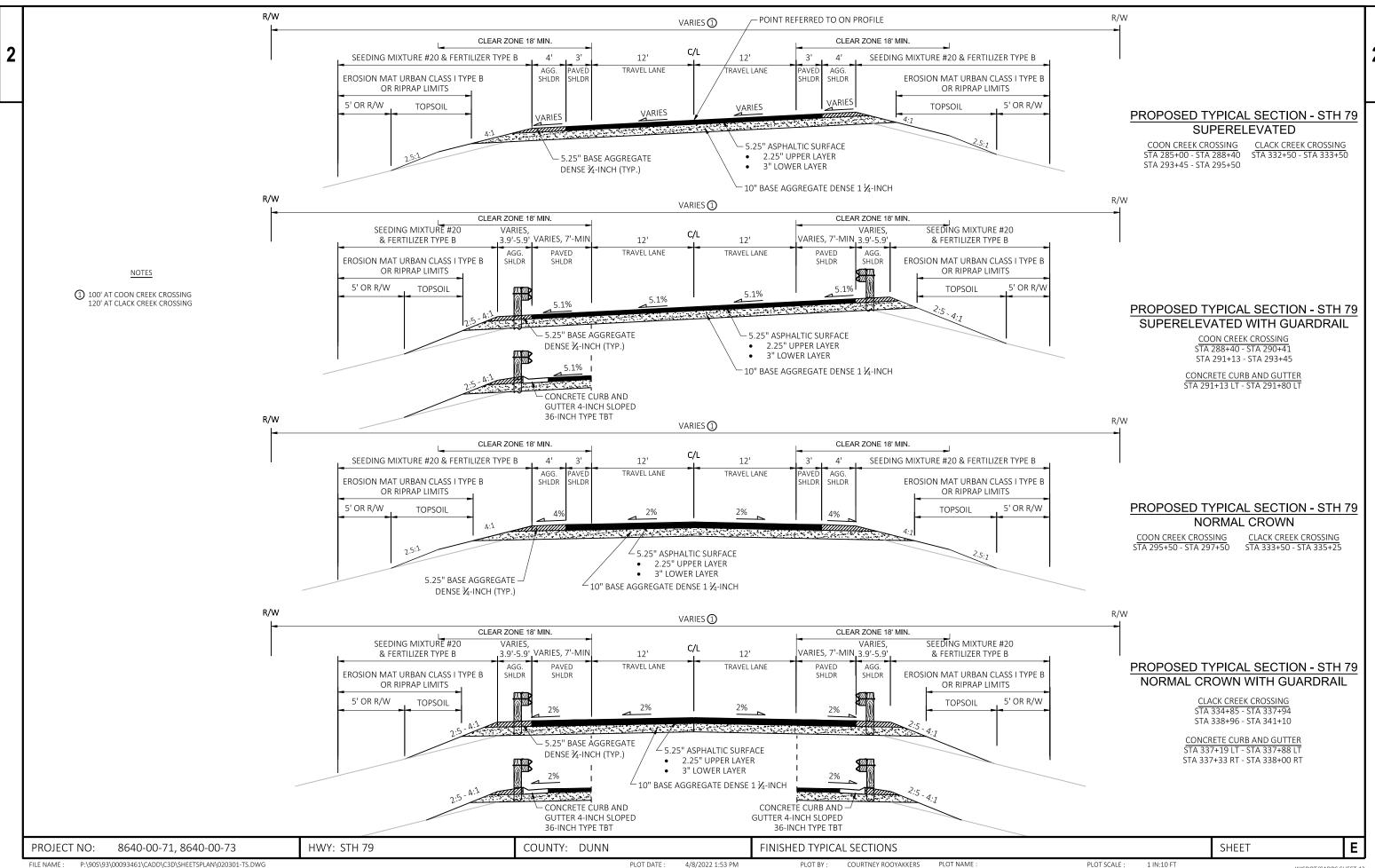
DESIGN CONTACT

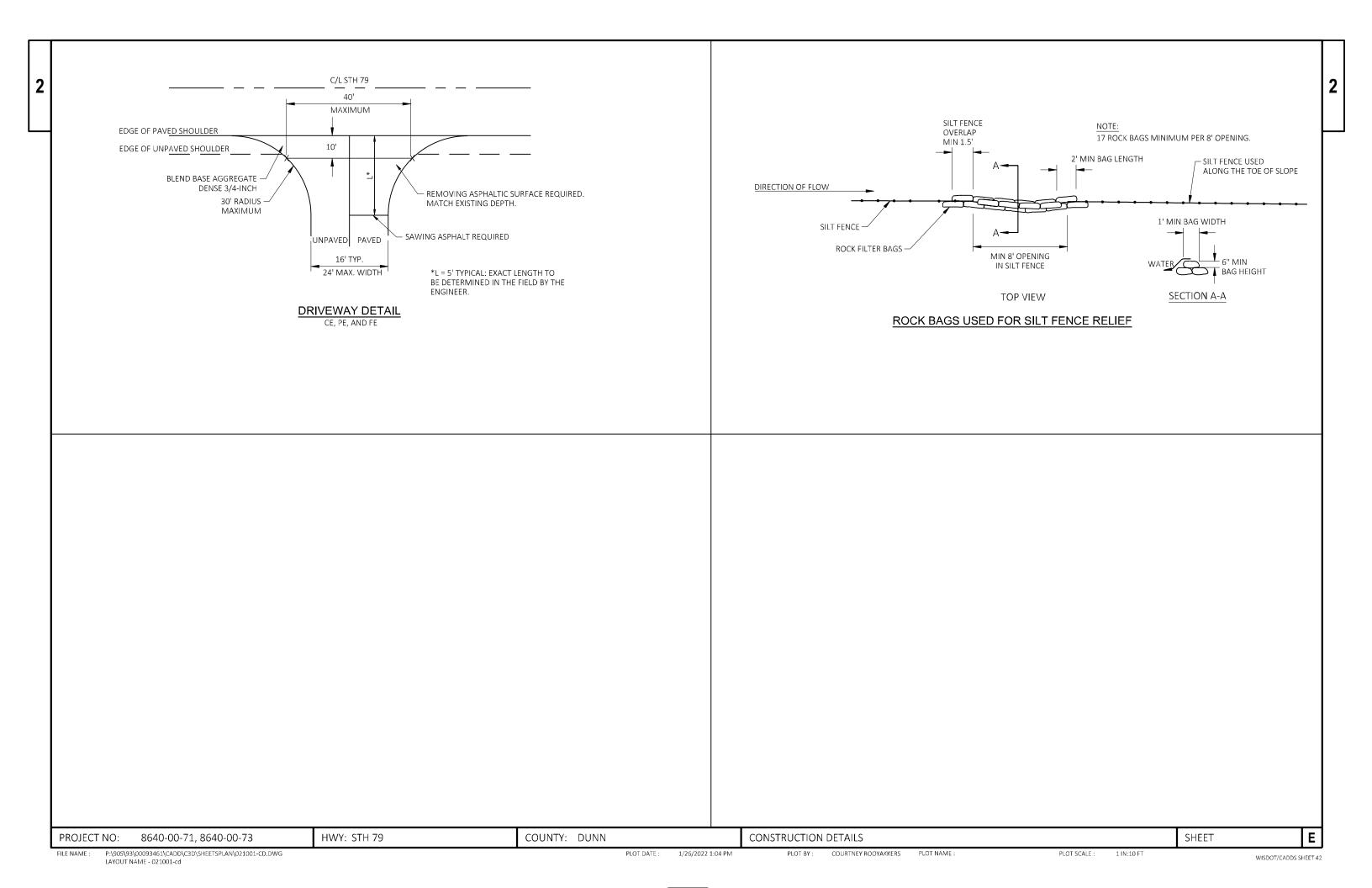
MSA PROFESSIONAL SERVICES, INC. 60 PLATO BLVD EAST SUITE 140 ST. PAUL, MN 55107-1835 ATTN: JAMES WATTERS, PE PHONE: (612) 720-7896 EMAIL: JWATTERS@MSA-PS.COM

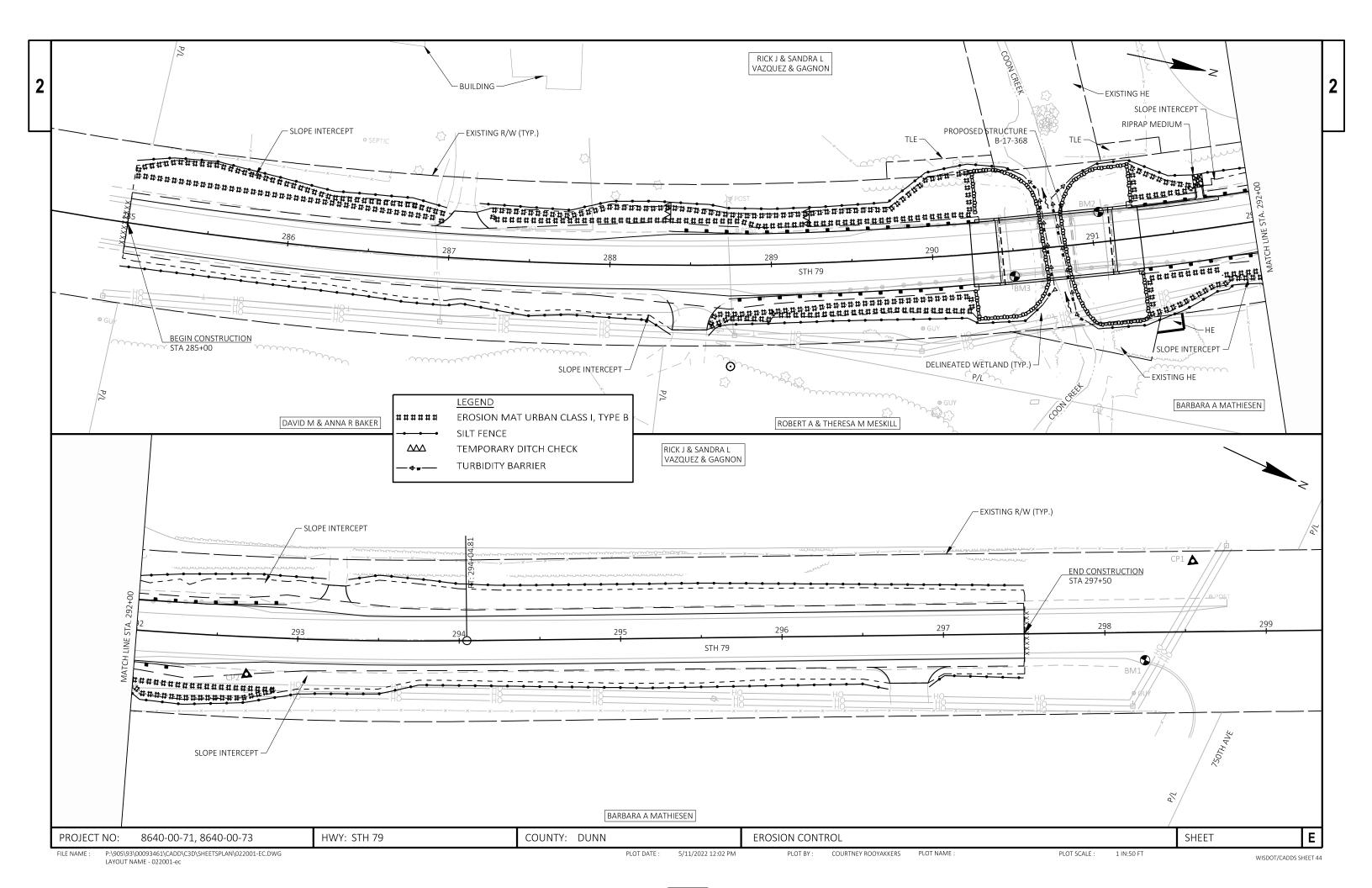
WISDOT CONTACT

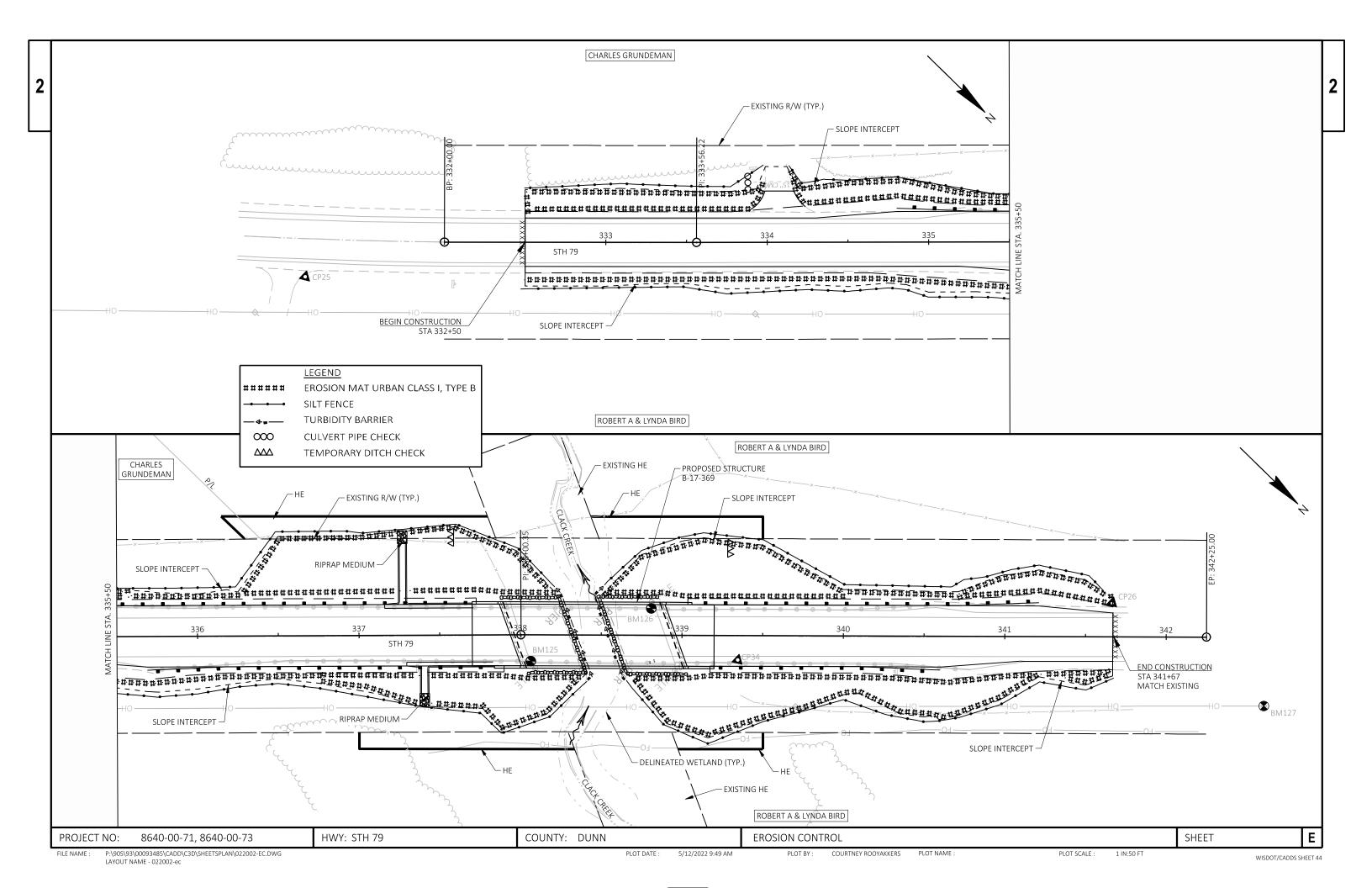
CORRE, INC.
CAMERON SHIFFER
1802 WARDEN ST
EAU CLAIR, WI 54703
ATTN: JAMES WATTERS, PE
PHONE: (608) 828-1011
EMAIL: CSHIFFER@CORREINC.COM

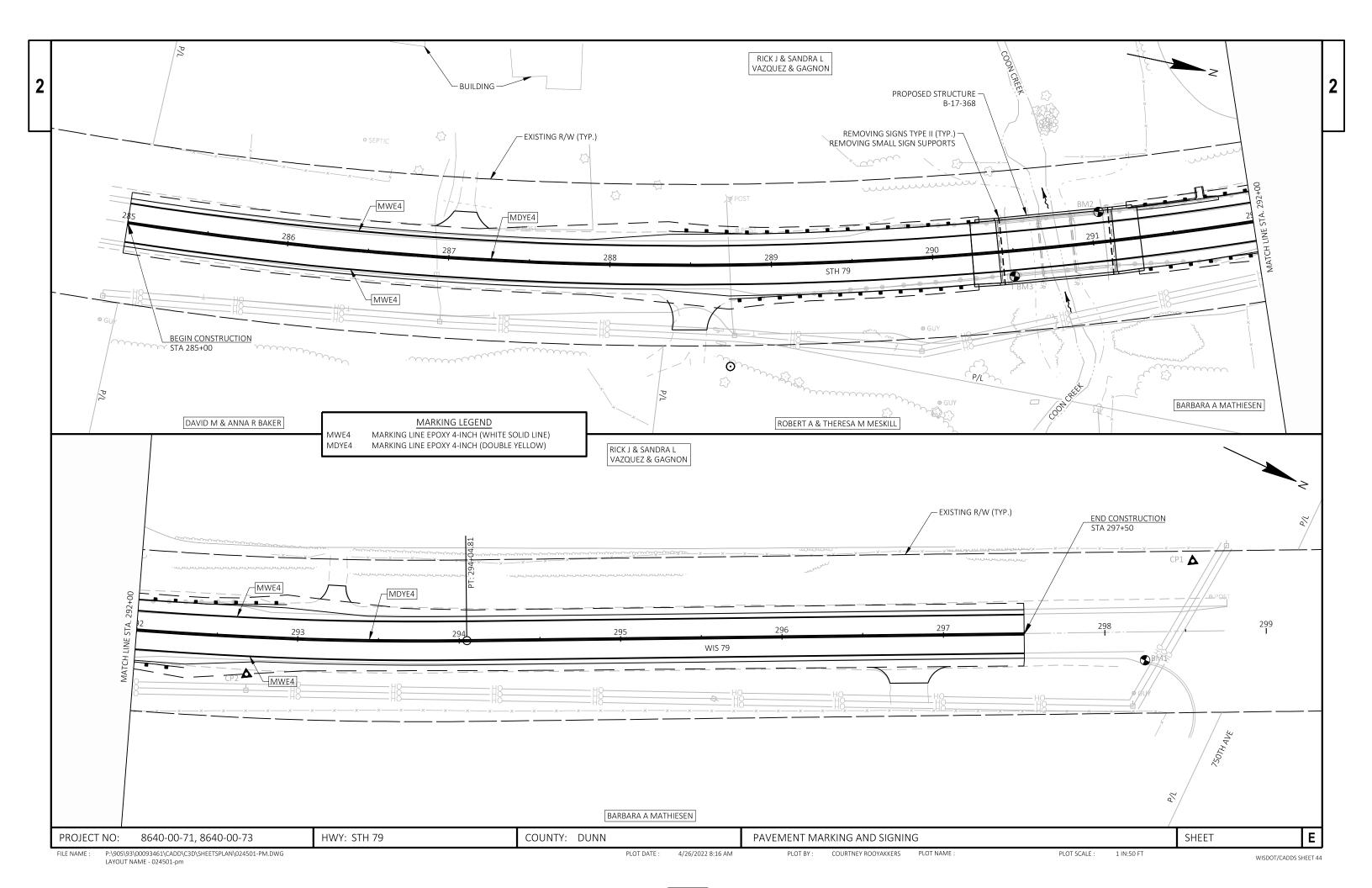


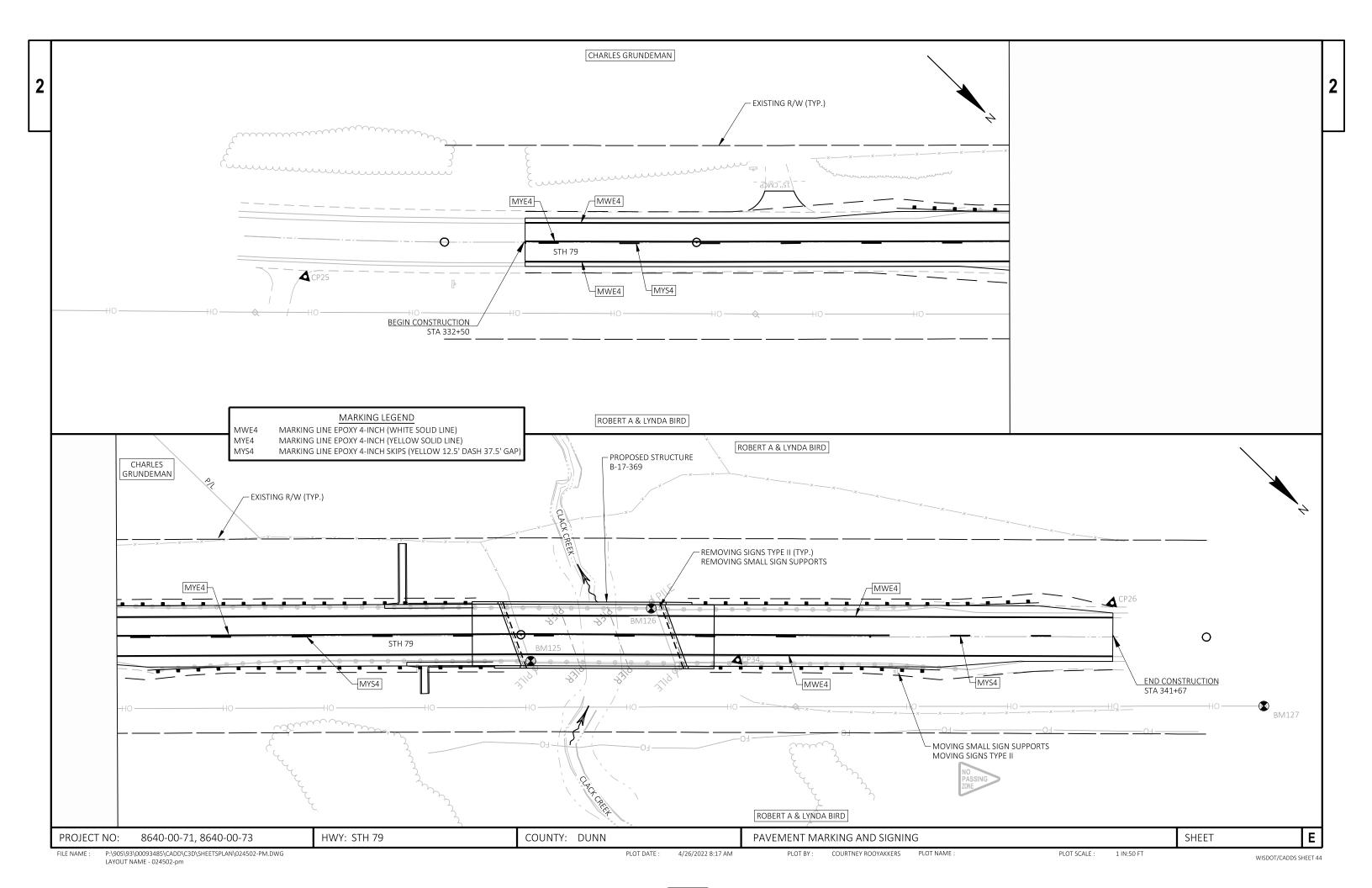


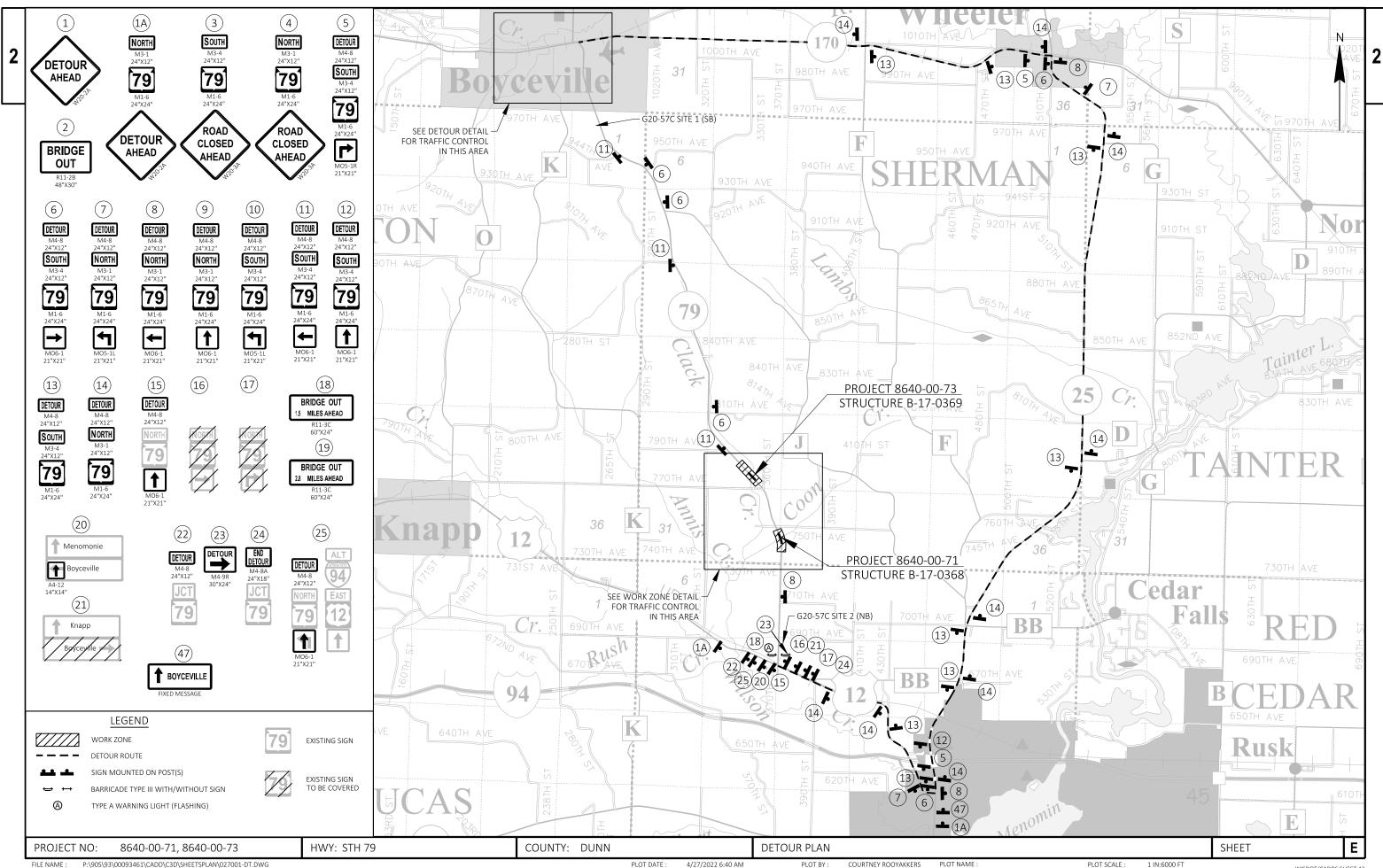


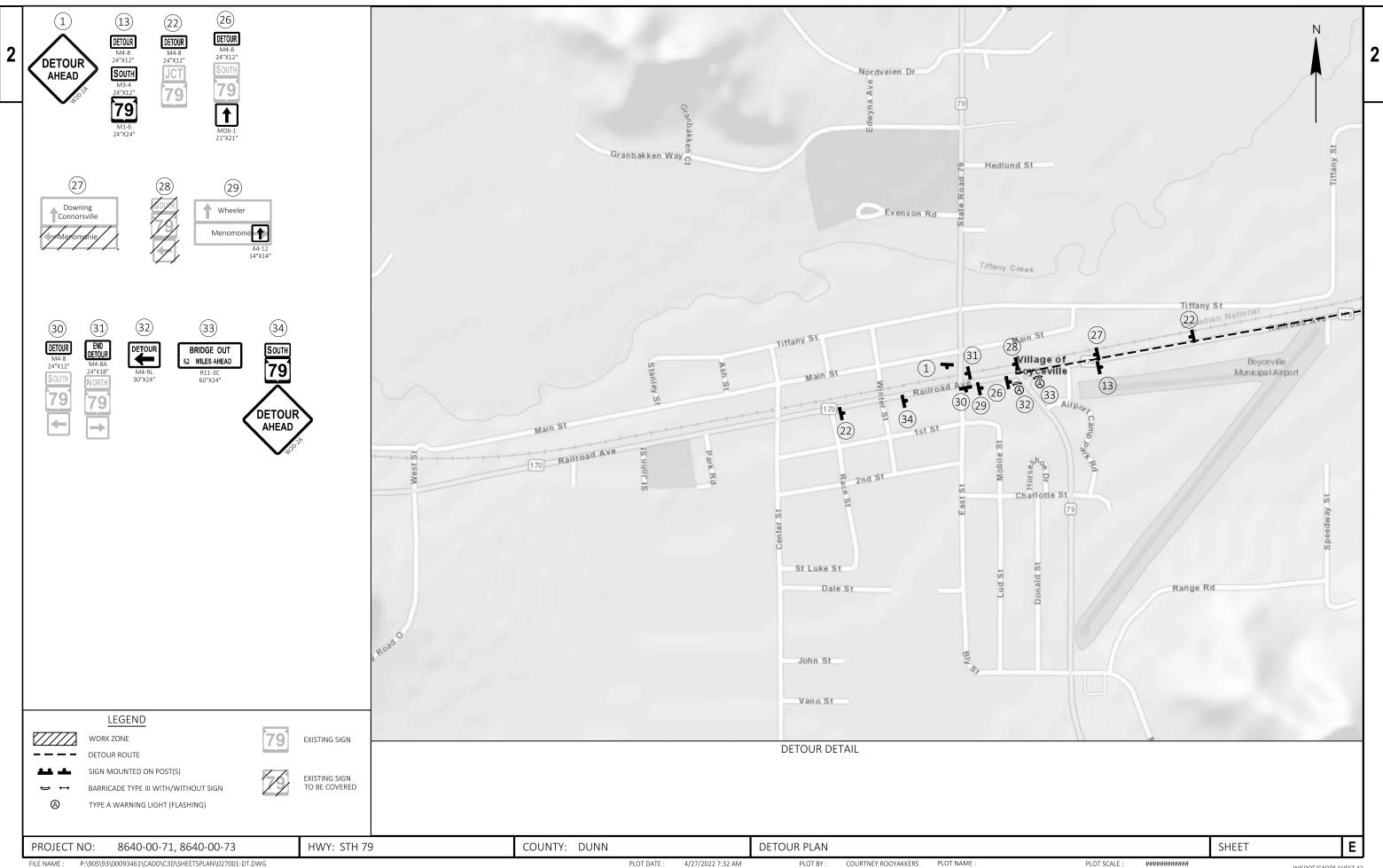




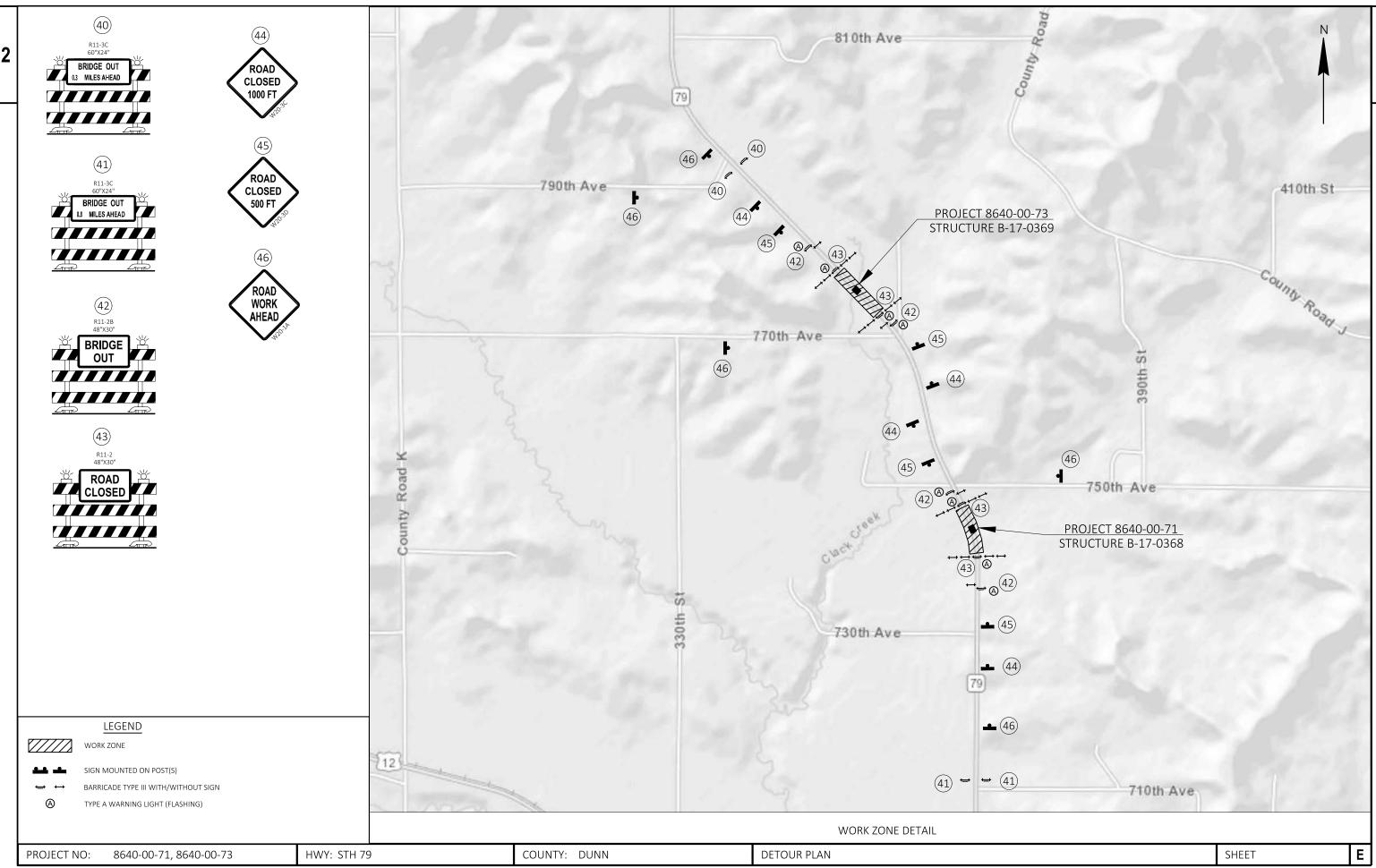








P:\90S\93\00093461\CADD\C3D\SHEETSPLAN\027001-DT.DWG PLOT DATE : 4/27/2022 7:32 AM PLOT BY: COURTNEY ROOYAKKERS PLOT NAME : PLOT SCALE : ************* WISDOT/CADDS SHEET 42



3

| | | | | | 8640-00-71 | 8640-00-73 | |
|------|------------|--|------|------------|-----------------|------------|--|
| Line | Item | Item Description | Unit | Total | Qty | Qty | |
| 0002 | 202.0105 | Roadside Clearing | STA | 6.000 | 2.000 | 4.000 | |
| 0004 | 203.0211.S | Abatement of Asbestos Containing Material (structure) 02. B-17-0143 | EACH | 1.000 | | 1.000 | |
| 0006 | 203.0260 | Removing Structure Over Waterway Minimal Debris (structure) 01. B-17-0142 | EACH | 1.000 | 1.000 | | |
| 8000 | 203.0260 | Removing Structure Over Waterway Minimal Debris (structure) 02. B-17-0143 | EACH | 1.000 | | 1.000 | |
| 0010 | 204.0110 | Removing Asphaltic Surface | SY | 1,070.000 | 1,070.000 | | |
| 0012 | 204.0165 | Removing Guardrail | LF | 1,330.000 | 468.000 | 862.000 | |
| 0014 | 204.0170 | Removing Fence | LF | 420.000 | | 420.000 | |
| 0016 | 205.0100 | Excavation Common | CY | 3,930.000 | 2,191.000 | 1,739.000 | |
| 0018 | 206.1000 | Excavation for Structures Bridges (structure) 01. B-17-0368 | LS | 1.000 | 1.000 | | |
| 0020 | 206.1000 | Excavation for Structures Bridges (structure) 02. B-17-0369 | LS | 1.000 | | 1.000 | |
| 0022 | 210.1500 | Backfill Structure Type A | TON | 1,086.000 | 522.000 | 564.000 | |
| 0024 | 213.0100 | Finishing Roadway (project) 01. 8640-00-71 | EACH | 1.000 | 1.000 | | |
| 0026 | 213.0100 | Finishing Roadway (project) 02. 8640-00-73 | EACH | 1.000 | | 1.000 | |
| 0028 | 305.0110 | Base Aggregate Dense 3/4-Inch | TON | 880.000 | 480.000 | 400.000 | |
| 0030 | 305.0120 | Base Aggregate Dense 1 1/4-Inch | TON | 6,100.000 | 3,550.000 | 2,550.000 | |
| 0032 | 415.0410 | Concrete Pavement Approach Slab | SY | 341.000 | 140.000 | 201.000 | |
| 0034 | 416.1010 | Concrete Surface Drains | CY | 10.000 | 2.000 | 8.000 | |
| 0036 | 455.0605 | Tack Coat | GAL | 515.000 | 295.000 | 220.000 | |
| 0038 | 465.0105 | Asphaltic Surface | TON | 2,115.000 | 1,235.000 | 880.000 | |
| 0040 | 502.0100 | Concrete Masonry Bridges | CY | 532.000 | 240.000 | 292.000 | |
| 0042 | 502.3200 | Protective Surface Treatment | SY | 772.000 | 323.000 | 449.000 | |
| 0044 | 502.3210 | Pigmented Surface Sealer | SY | 235.000 | 100.000 | 135.000 | |
| 0046 | 503.0137 | Prestressed Girder Type I 36W-Inch | LF | 426.000 | 426.000 | | |
| 0048 | 503.0146 | Prestressed Girder Type I 45W-Inch | LF | 505.000 | | 505.000 | |
| 0050 | 505.0400 | Bar Steel Reinforcement HS Structures | LB | 10,360.000 | 5,320.000 | 5,040.000 | |
| 0052 | 505.0600 | Bar Steel Reinforcement HS Coated Structures | LB | 64,160.000 | 27,150.000 | 37,010.000 | |
| 0054 | 506.2605 | Bearing Pads Elastomeric Non-Laminated | EACH | 22.000 | 12.000 | 10.000 | |
| 0056 | 506.4000 | Steel Diaphragms (structure) 01. B-17-0368 | EACH | 5.000 | 5.000 | 10.000 | |
| 0058 | 506.4000 | Steel Diaphragms (structure) 02. B-17-0369 | EACH | 8.000 | 0.000 | 8.000 | |
| 0060 | 516.0500 | Rubberized Membrane Waterproofing | SY | 48.000 | 24.000 | 24.000 | |
| 0062 | 550.1100 | Piling Steel HP 10-Inch X 42 Lb | LF | 3,730.000 | 1,750.000 | 1,980.000 | |
| 0064 | 601.0588 | Concrete Curb & Gutter 4-Inch Sloped 36-Inch Type TBT | LF | 146.000 | 51.000 | 95.000 | |
| 0066 | 601.0590 | Concrete Curb & Gutter 4-Inch Sloped 36-Inch Type TBT Concrete Curb & Gutter 4-Inch Sloped 36-Inch Type TBTT | LF | 17.000 | 3.000 | 14.000 | |
| 0068 | 606.0200 | Riprap Medium | CY | 9.000 | 3.000 | 6.000 | |
| 0070 | 606.0300 | Riprap Heavy | CY | 775.000 | 485.000 | 290.000 | |
| 0070 | 612.0406 | Pipe Underdrain Wrapped 6-Inch | LF | 400.000 | 200.000 | 200.000 | |
| 0074 | 614.0150 | Anchor Assemblies for Steel Plate Beam Guard | EACH | 8.000 | 4.000 | 4.000 | |
| 0074 | 614.2300 | MGS Guardrail 3 | LF | 750.000 | 250.000 | 500.000 | |
| 0078 | 614.2500 | MGS Thrie Beam Transition | LF | 315.200 | 157.600 | 157.600 | |
| 0078 | 614.2610 | MGS Guardrail Terminal EAT | EACH | 8.000 | 4.000 | 4.000 | |
| 0082 | 618.0100 | Maintenance And Repair of Haul Roads (project) 01. 8640-00-71 | EACH | 1.000 | 1.000 | 4.000 | |
| 0084 | 618.0100 | Maintenance And Repair of Haul Roads (project) 01. 8640-00-71 Maintenance And Repair of Haul Roads (project) 02. 8640-00-73 | EACH | 1.000 | 1.000 | 1.000 | |
| | 619.1000 | Mobilization Repair of Haul Roads (project) 02. 8640-00-73 | | | 0.500 | 0.500 | |
| 0086 | | | EACH | 1.000 | 0.500 62.000 | 45.000 | |
| 8800 | 624.0100 | Water | MGAL | 107.000 | | | |
| 0090 | 625.0100 | Topsoil | SY | 7,380.000 | 3,860.000 | 3,520.000 | |
| 0092 | 628.1504 | Silt Fence | LF | 4,390.000 | 2,540.000 | 1,850.000 | |
| 0094 | 628.1520 | Silt Fence Maintenance | LF | 4,390.000 | 2,540.000 | 1,850.000 | |
| 0096 | 628.1905 | Mobilizations Erosion Control | EACH | 8.000 | 4.000 | 4.000 | |
| 0098 | 628.1910 | Mobilizations Emergency Erosion Control | EACH | 4.000 | 2.000 | 2.000 | |

| | | | | | 8640-00-71 | 8640-00-73 |
|------|----------|--|------|------------|------------|------------|
| Line | Item | Item Description | Unit | Total | Qty | Qty |
| 0100 | 628.2008 | Erosion Mat Urban Class I Type B | SY | 7,380.000 | 3,860.000 | 3,520.000 |
| 0102 | 628.6005 | Turbidity Barriers | SY | 474.000 | 173.000 | 301.000 |
| 0104 | 628.7504 | Temporary Ditch Checks | LF | 72.000 | 36.000 | 36.000 |
| 0106 | 628.7555 | Culvert Pipe Checks | EACH | 25.000 | 17.000 | 8.000 |
| 0108 | 628.7570 | Rock Bags | EACH | 180.000 | 90.000 | 90.000 |
| 0110 | 629.0210 | Fertilizer Type B | CWT | 4.650 | 2.430 | 2.220 |
| 0112 | 630.0120 | Seeding Mixture No. 20 | LB | 200.000 | 105.000 | 95.000 |
| 0114 | 630.0200 | Seeding Temporary | LB | 50.000 | 25.000 | 25.000 |
| 0116 | 630.0500 | Seed Water | MGAL | 175.000 | 93.000 | 82.000 |
| 0118 | 638.2102 | Moving Signs Type II | EACH | 1.000 | | 1.000 |
| 0120 | 638.2602 | Removing Signs Type II | EACH | 8.000 | 4.000 | 4.000 |
| 0122 | 638.3000 | Removing Small Sign Supports | EACH | 8.000 | 4.000 | 4.000 |
| 0124 | 638.4000 | Moving Small Sign Supports | EACH | 1.000 | | 1.000 |
| 0126 | 642.5201 | Field Office Type C | EACH | 1.000 | 0.500 | 0.500 |
| 0128 | 643.0300 | Traffic Control Drums | DAY | 40.000 | 20.000 | 20.000 |
| 0130 | 643.0420 | Traffic Control Barricades Type III | DAY | 3,880.000 | 1,940.000 | 1,940.000 |
| 0132 | 643.0705 | Traffic Control Warning Lights Type A | DAY | 5,460.000 | 2,730.000 | 2,730.000 |
| 0134 | 643.0900 | Traffic Control Signs | DAY | 20,150.000 | 10,075.000 | 10,075.000 |
| 0136 | 643.0920 | Traffic Control Covering Signs Type II | EACH | 12.000 | 6.000 | 6.000 |
| 0138 | 643.1000 | Traffic Control Signs Fixed Message | SF | 44.200 | 18.000 | 26.200 |
| 0140 | 643.5000 | Traffic Control | EACH | 1.000 | 0.500 | 0.500 |
| 0142 | 645.0111 | Geotextile Type DF Schedule A | SY | 134.000 | 66.000 | 68.000 |
| 0144 | 645.0120 | Geotextile Type HR | SY | 1,228.000 | 752.000 | 476.000 |
| 0146 | 646.1020 | Marking Line Epoxy 4-Inch | LF | 7,860.000 | 5,000.000 | 2,860.000 |
| 0148 | 648.0100 | Locating No-Passing Zones | MI | 0.410 | 0.240 | 0.170 |
| 0150 | 650.4500 | Construction Staking Subgrade | LF | 2,007.000 | 1,179.000 | 828.000 |
| 0152 | 650.5000 | Construction Staking Base | LF | 2,007.000 | 1,179.000 | 828.000 |
| 0154 | 650.5500 | Construction Staking Curb Gutter and Curb & Gutter | LF | 209.000 | 67.000 | 142.000 |
| 0156 | 650.6500 | Construction Staking Structure Layout (structure) 01. B-17-0368 | LS | 1.000 | 1.000 | 142.000 |
| 0158 | 650.6500 | Construction Staking Structure Layout (structure) 01. B-17-0369 | LS | 1.000 | 1.000 | 1.000 |
| 0160 | 650.9910 | Construction Staking Supplemental Control (project) 01. 8640-00-71 | LS | 1.000 | 1.000 | 1.000 |
| 0162 | 650.9910 | Construction Staking Supplemental Control (project) 01: 8640-00-71 Construction Staking Supplemental Control (project) 02: 8640-00-73 | LS | 1.000 | 1.000 | 1.000 |
| 0162 | 650.9910 | Construction Staking Supplemental Control (project) 02. 8640-00-73 | LF | 2,007.000 | 1,179.000 | 828.000 |
| 0166 | 690.0150 | Sawing Asphalt | LF | 120.000 | 60.000 | 60.000 |
| 0168 | 715.0502 | Incentive Strength Concrete Structures | DOL | 3,200.000 | 1,500.000 | 1,700.000 |
| 0168 | 715.0502 | Incentive Strength Concrete Structures Incentive Compressive Strength Concrete Pavement | DOL | 1,000.000 | 500.000 | 500.000 |
| 0170 | | Installing and Maintaining Bird Deterrent System (station) 01. 290+77 | EACH | 1.000 | 1.000 | 500.000 |
| | | | | | 1.000 | 4 000 |
| 0174 | | Installing and Maintaining Bird Deterrent System (station) 02. 338+45 | EACH | 1.000 | 200.000 | 1.000 |
| 0176 | ASP.1T0A | On-the-Job Training Apprentice at \$5.00/HR | HRS | 300.000 | 300.000 | |
| 0178 | ASP.110G | On-the-Job Training Graduate at \$5.00/HR | HRS | 300.000 | 300.000 | |

| CATEGORY | STATION | TO | STATION | LOCATION | 202.0105 ROADSIDE CLEARING STA | 204.0110 REMOVING ASPHALTIC SURFACE SY | 204.0170 REMOVING FENCE LF | 690.0150 SAWING ASPHALT LF |
|----------|---------|----|---------|-------------------------------|---|--|------------------------------|----------------------------------|
| 0010 | 285+00 | - | 290+42 | MAINLINE | | | | 30 |
| 0010 | 287+50 | - | 290+40 | MAINLINE | | 970 | | |
| 0010 | 289+00 | - | 291+00 | MAINLINE | 2 | | == | |
| 0010 | 291+12 | - | 291+42 | MAINLINE | | 100 | | |
| 0010 | 291+12 | - | 297+50 | MAINLINE | | | | 30 |
| | | | | PROJECT 8640-00-71 TOTAL 0010 | 2 | 1,070 | 0 | 60 |
| 0010 | 332+25 | - | 337+83 | MAINLINE | 2 | | | 30 |
| 0010 | 338+96 | - | 341+67 | MAINLINE | 2 | | | 30 |
| 0010 | 335+90 | - | 338+48 | LT | | | 260 | |
| 0010 | 339+36 | = | 340+90 | RT | | | 160 | |
| | | | | PROJECT 8640-00-73 TOTAL 0010 | 4 | 0 | 420 | 60 |
| | | | | TOTAL | 6 | 1,070 | 420 | 120 |

| | | | | 305.0110 BASE AGGREGATE | 305.0120 BASE AGGREGATE | 624.0100 |
|----------|-------------|--------|--------------|----------------------------|----------------------------|----------|
| | | | | DENSE 3/4-INCH | DENSE 1 1/4-INCH | WATER |
| CATEGORY | STATION | TO | STATION | TON | TON | MGAL |
| | | | | | | |
| 0010 | 285+00 | - | 290+42 | 210 | 1,630 | 28 |
| 0010 | 291+13 | - | 294+50 | 220 | 1,870 | 32 |
| 0010 | D | RIVEWA | YS | 50 | 50 | 2 |
| | | | | | | |
| | PROJECT 864 | 0-00-7 | 1 TOTAL 0010 | 480 | 3,550 | 62 |
| | | | | | | |
| 0010 | 332+25 | - | 338+01 | 210 | 1,650 | 28 |
| 0010 | 338+91 | - | 342+25 | 170 | 880 | 16 |
| 0010 | D | RIVEWA | YS | 20 | 20 | 1 |
| | | | | | | |
| | PROJECT 864 | 0-00-7 | 3 TOTAL 0010 | 400 | 2,550 | 45 |
| | | | | | | |
| | | | TOTAL | 880 | 6,100 | 107 |

| | | | | 205.0100 EXCAVATION | (1)UNUSABLE | | | (3) MASS ORDINATE | 208.0100 |
|----------|-------------|---------|--------------|------------------------|-------------|-----------------|-------------------|-------------------|----------|
| | | | | COMMON | MATERIAL | UNEXPANDED FILL | (2) EXPANDED FILL | (+/-) | BORROW |
| CATEGORY | STATION | TO | STATION | CY | CY | CY | CY | CY | CY |
| | | | | | | | | | |
| 0010 | 285+00 | - | 290+32 | 383 | 160 | 454 | 567 | -345 | |
| 0010 | 291+22 | - | 297+50 | 1,808 | 305 | 128 | 160 | 1,343 | |
| | | | | | | | | _ | |
| | PROJECT 864 | 10-00-7 | 1 TOTAL 0010 | 2,191 | | | | | 0 |
| | | | | | | | | | |
| 0010 | 332+50 | | 337+75 | 1,344 | 255 | 231 | 288 | 801 | |
| 0010 | 339+14 | | 341+67 | 395 | 123 | 300 | 375 | -104 | |
| | | | | | | | | _ | |
| | PROJECT 864 | 10-00-7 | 3 TOTAL 0010 | 1,739 | | | | • | 0 |
| | | | | | | | | | |
| | | | TOTAL | 3,930 | | | | = | 0 |

| | | | | 455.0605 | 465.0105 ASPHALTIC SURFACE |
|----------|-------------|---------|--------------|----------|----------------------------------|
| CATEGORY | STATION | TO | STATION | GAL | TON |
| | | | | | |
| 0010 | 285+00 | - | 290+24 | 140 | 575 |
| 0010 | 291+29 | - | 297+50 | 155 | 660 |
| 0010 | | | | | |
| | PROJECT 864 | 10-00-7 | 1 TOTAL 0010 | 295 | 1,235 |
| 0010 | 332+50 | - | 337+71 | 140 | 580 |
| 0010 | 339+20 | - | 341+67 | 80 | 300 |
| | | | | | |
| | PROJECT 864 | 10-00-7 | 3 TOTAL 0010 | 220 | 880 |
| | | | | | |
| | | | TOTALS | 515 | 2,115 |

PROJECT NO: 8640-00-71,8640-00-73 HWY: STH 79 COUNTY: DUNN MISCELLANEOUS QUANTITIES SHEET **E**

FILE NAME : P:\90\$\93\00093461\CADD\C3D\\$HEETSOTHER\030201_MQ,DWG LAYOUT NAME - 030201-mq

PLOT DATE: 3/10/2020 8:11 AM

PLOT BY: DAVE KATZNER

PLOT NAME :

WISDOT/CADDS SHEET 42

⁽¹⁾ EXISTING ASPHALT IS ASSUMED TO BE UNUSABLE MATERIAL

⁽²⁾ EXPANDEDN FILL FACTOR = 1.25

⁽³⁾ THE MASS ORDINATE + OR - QUANTITY CALCULATED FOR THE DIVISION. PLUS QUANTITY INDICATES AN EXCESS OF MATERIAL WITHIN THE DIVISION. MINUS QUANTITY INDICATES A SHORTAGE OF MATERIAL WITHIN THE DIVISION.

| CATEGORY | STATION | TO | STATION | LOCATION | 416.1010 CONCRETE SURFACE DRAINS CY | 601.0588 CONCRETE CURB & GUTTER 4-INCH SLOPED 36-INCH TYPE TBT LF | 601.0590 CONCRETE CURB & GUTTER 4-INCH SLOPED 36-INCH TYPE TBTT LF | REMARKS | CATEGORY | STATION | TO | STATION | LOCATION | 204.0165 REMOVING GUARDRAIL LF | 614.2300 MGS GUARDRAIL 3 LF | 614.2500 MGS THRIE BEAM TRANSITION LF | 614.2610 MGS GUARDRAIL TERMINAL EAT EACH |
|----------|---------|-------|---------------|---------------|--------------------------------------|---|--|-------------------------|----------|---------|----|----------------|------------------|---|-----------------------------------|--|---|
| 0010 | 291+26 | _ | 291+80 | LT | | 51 | 3 | | 0040 | | | | | 7- | 4.00 | | |
| 0010 | - | _ | 291+70 | LT | 2 | | | CONCRETE SURFACE DRAIN | 0010 | 288+38 | - | 290+32 | LT | 75 | 100 | 39.4 | 1 |
| | | | | | _ | | | | 0010 | 288+73 | - | 290+32 | RT | 156 | 62.5 | 39.4 | 1 |
| | | PR∩I | FCT 8640-00-7 | 71 TOTAL 0010 | 2 | 51 | 3 | | 0010 | 291+23 | - | 292+93 | LT | 162 | 75 | 39.4 | 1 |
| | | 11103 | 2010040 00 7 | 1 101AL0010 | 2 | 91 | 5 | | 0010 | 291+23 | - | 292+30 | RT | 75 | 12.5 | 39.4 | 1 |
| 0010 | 337+16 | _ | 337+71 | LT | | 55 | | | 0010 | | - | | - | | _ | | |
| 0010 | - | _ | 337+27 | LT | 5 | | | CONCRETE SURFACE DRAIN | | | | PROJECT 8640-0 | 00-71 TOTAL 0010 | 468 | 250 | 157.6 | 4 |
| 0010 | 337+29 | _ | 337+83 | RT | J | 40 | 14 | CONCRETE SORFACE DIVAIN | | | | | | | | | |
| 0010 | - | - | 337+63 | RT | 2 | | | CONCRETE SURFACE DRAIN | 0010 | 334+80 | - | 337+72 | LT | 272 | 200 | 39.4 | 1 |
| 0010 | - | - | 337+40 | NI | 5 | | | CONCRETE SURFACE DRAIN | 0010 | 335+69 | - | 337+83 | RT | 234 | 125 | 39.4 | 1 |
| | | DDO | FCT 0C40 00 = | 72 TOTAL 0010 | 0 | ٥٢ | 1.4 | | 0010 | 339+02 | - | 341+21 | LT | 172 | 125 | 39.4 | 1 |
| | | PROJ | ECT 8640-00-7 | 73 TOTAL 0010 | 8 | 95 | 14 | | 0010 | 339+02 | - | 340+60 | RT | 184 | 50 | 39.4 | 1 |
| | | | | TOTALS | 10 | 146 | 17 | | | | | PROJECT 8640-0 | 00-73 TOTAL 0010 | 862 | 500 | 157.6 | 4 |
| | | | | | | | | | | | | | TOTALS | 1,330 | 750 | 315.2 | 8 |

628.7504

628.7555

628.7570

| | | | | | | | | | 020.7504 TENADODADY | 020.7555 | 020.7370 | |
|-------|---------|----|---------|-------------------------------|---------------|----------|---------|--------------------------------|------------------------|--------------|-----------|-------------------|
| | | | | | | | | | TEMPORARY | CULVERT PIPE | DOCK DACC | |
| | | | | | | | | | DITCH CHECKS | CHECKS | ROCK BAGS | |
| | | | | | | CATEGORY | STATION | LOCATION | LF | EACH | EACH | REMARKS |
| | | | | | | 0010 | 287+09 | LT | | 3 | | DRIVEWAY |
| | | | | | 415.0410 | 0010 | 288+25 | LT | 12 | | | |
| | | | | | CONCRETE | 0010 | 288+50 | RT | | 3 | | DRIVEWAY |
| | | | | | PAVEMENT | 0010 | 289+25 | LT | 12 | | | |
| | | | | | APPROACH SLAB | 0010 | 290+23 | LT | | | 20 | SILT FENCE RELIEF |
| EGORY | STATION | TO | STATION | LOCATION | SY | 0010 | 290+23 | RT | | | 20 | SILT FENCE RELIEF |
| | | | | | | 0010 | 291+30 | LT | | | 20 | SILT FENCE RELIEF |
| 0010 | 290+24 | - | 290+41 | MAINLINE | 70 | 0010 | 291+29 | RT | | | 20 | SILT FENCE RELIEF |
| 0010 | 291+13 | - | 291+29 | MAINLINE | 70 | 0010 | 293+25 | LT | | 3 | | DRIVEWAY |
| | | | | | | 0010 | 296+80 | RT | | 3 | | DRIVEWAY |
| | | | | PROJECT 8640-00-71 TOTAL 0010 | 140 | 0010 | | UNDISTRIBUTED | 12 | 5 | 10 | |
| 0010 | 337+71 | - | 338+01 | MAINLINE | 100 | | | DD015CT 0C 40 00 74 TOTAL 0040 | 26 | 17 | | |
| 010 | 338+89 | - | 339+20 | MAINLINE | 101 | | | PROJECT 8640-00-71 TOTAL 0010 | 36 | 17 | 90 | |
| | | | | PROJECT 8640-00-73 TOTAL 0010 | 201 | 0010 | 334+06 | LT | | 3 | | DRIVEWAY |
| | | | | 11103201001000731017120010 | 201 | 0010 | 337+55 | LT | 12 | | | |
| | | | | TOTAL | 341 | 0010 | 337+60 | LT | | | 20 | SILT FENCE RELIEF |
| | | | | TOTAL | 541 | 0010 | 337+83 | RT | | | 20 | SILT FENCE RELIEF |
| | | | | | | 0010 | 339+13 | LT | | | 20 | SILT FENCE RELIEF |
| | | | | | | 0010 | 339+25 | RT | | | 20 | SILT FENCE RELIEF |
| | | | | | | 0010 | 339+35 | LT | 12 | | | |
| | | | | | | 0010 | | UNDISTRIBUTED | 12 | 5 | 10 | |
| | | | | | | | | PROJECT 8640-00-73 TOTAL 0010 | 36 | 8 | 90 | |
| | | | | | | | | TOTALS | 72 | 25 | 180 | |

HWY: STH 79 SHEET E PROJECT NO: 8640-00-71,8640-00-73 COUNTY: DUNN MISCELLANEOUS QUANTITIES FILE NAME : P:\90\$\93\00093461\CADD\C3D\\$HEETSOTHER\030201_MQ.DWG LAYOUT NAME - 030201-mq PLOT BY: DAVE KATZNER PLOT DATE: 3/10/2020 8:11 AM PLOT NAME : WISDOT/CADDS SHEET 42

| • |
|---|
| |
| |
| |

| | | | | | 628.1504 | 628.1520 | 628.1905 MOBILIZATIONS | 628.1910 MOBILIZATIONS EMERGENCY | 628.6005 |
|----------|---------|----|---------|-------------------------------|------------|---------------------------|-------------------------|--|-----------------------|
| | | | | | SILT FENCE | SILT FENCE MAINTENANCE | EROSION CONTROL | EROSION CONTROL | TURBIDITY BARRIERS |
| CATEGORY | STATION | TO | STATION | LOCATION | LF | LF | EACH | EACH | SY |
| 0010 | 285+00 | | 290+60 | I.T. | F.9.0 | 580 | | | |
| | | - | | LT | 580 | | | | |
| 0010 | 285+00 | - | 290+55 | RT | 600 | 600 | | | |
| 0010 | | | 230+91 | | | | | | 83 |
| 0010 | 200.00 | | 290+84 | D.T. | | | | | 90 |
| 0010 | 290+90 | - | 297+50 | RT | 680 | 680 | | | |
| 0010 | 290+95 | - | 297+50 | LT | 680 | 680 | | | |
| 0010 | | | | PROJECT 8640-00-71 | | | 4 | 2 | |
| | | | | PROJECT 8640-00-71 TOTAL 0010 | 2,540 | 2,540 | 4 | 2 | 173 |
| 0010 | 332+50 | _ | 337+75 | RT | 610 | 610 | | | |
| 0010 | 332+50 | - | 337+75 | LT | 600 | 600 | | | |
| 0010 | | | 338+30 | | | | | | 149 |
| 0010 | | | 338+58 | | | | | | 152 |
| 0010 | 339+05 | - | 341+67 | LT | 330 | 330 | | | |
| 0010 | 339+05 | - | 341+67 | RT | 310 | 310 | | | |
| 0010 | | | | PROJECT 8640-00-73 | | | 4 | 2 | |
| | | | | PROJECT 8640-00-73 TOTAL 0010 | 1,850 | 1,850 | 4 | 2 | 301 |
| | | | | TOTALS | 4,390 | 4,390 | 8 | 4 | 303 |

| | | | | | 625.0100 | 628.2008 EROSION MAT URBAN CLASS I | 629.0210 | 630.0120 SEEDING MIXTURE | 630.0200 SEEDING | 630.0500 |
|----------|---------|----|---------|-------------------------------|----------|--|-------------------|--------------------------|---------------------|------------|
| | | | | | TOPSOIL | TYPE B | FERTILIZER TYPE B | NO. 20 | TEMPORARY | SEED WATER |
| CATEGORY | STATION | TO | STATION | LOCATION | SY | SY | CWT | LB | LB | MGAL |
| | | | | | | | | | | |
| 0010 | 285+00 | - | 288+39 | RT | 410 | 410 | 0.26 | 11 | | 10 |
| 0010 | 288+60 | - | 290+31 | RT | 280 | 280 | 0.18 | 8 | | 7 |
| 0010 | 285+00 | - | 287+03 | LT | 490 | 490 | 0.31 | 13 | | 12 |
| 0010 | 287+15 | - | 290+30 | LT | 580 | 580 | 0.37 | 16 | | 14 |
| 0010 | 291+24 | - | 296+66 | RT | 900 | 900 | 0.57 | 24 | | 21 |
| 0010 | 296+90 | - | 297+50 | RT | 60 | 60 | 0.04 | 2 | | 2 |
| 0010 | 291+25 | - | 293+18 | LT | 300 | 300 | 0.19 | 8 | | 7 |
| 0010 | 293+30 | - | 297+50 | LT | 740 | 740 | 0.47 | 20 | | 17 |
| 0010 | | | | UNDISTRIBUTED | 100 | 100 | 0.06 | 4 | 25 | 3 |
| | | | | _ | | | | | | |
| | | | | PROJECT 8640-00-71 TOTAL 0010 | 3,860 | 3,860 | 2.43 | 105 | 25 | 93 |
| | | | | | | | | | | |
| 0010 | 332+50 | - | 333+99 | LT | 300 | 300 | 0.19 | 8 | | 7 |
| 0010 | 334+12 | - | 337+77 | LT | 1,010 | 1,010 | 0.64 | 27 | | 23 |
| 0010 | 332+50 | - | 337+90 | RT | 820 | 820 | 0.52 | 22 | | 19 |
| 0010 | 339+00 | - | 341+70 | LT | 610 | 610 | 0.38 | 16 | | 14 |
| 0010 | 339+14 | - | 341+70 | RT | 680 | 680 | 0.43 | 18 | | 16 |
| 0010 | | | | UNDISTRIBUTED | 100 | 100 | 0.06 | 3 | 25 | 3 |
| | | | | <u></u> | | _ | | | | |
| | | | | PROJECT 8640-00-73 TOTAL 0010 | 3,520 | 3,520 | 2.22 | 95 | 25 | 82 |
| | | | | _ | | | · | | | |
| | | | | TOTALS | 7,380 | 7,380 | 4.65 | 200 | 50 | 175 |

HWY: STH 79 COUNTY: DUNN SHEET E PROJECT NO: 8640-00-71,8640-00-73 MISCELLANEOUS QUANTITIES FILE NAME : P:\90\$\93\00093461\CADD\C3D\\$HEETSOTHER\030201_MQ.DWG LAYOUT NAME - 030201-mq PLOT BY: DAVE KATZNER PLOT DATE: 3/10/2020 8:11 AM PLOT NAME : WISDOT/CADDS SHEET 42

| • |
|----|
| .5 |
| v |
| |

| | | CATEGOR\ | <u> </u> | STATION | LOC | CATION | EACH | EACH | | CH CH | EACH EACH | |
|----------|-------------------------------|----------|-----------------------------------|--|--|----------------------------------|---|-------------|--|----------|-----------------------|---|
| | | 0010 | | 290+20 | | LT | | 1 | | 1 | | |
| | | 0010 | | 290+20 | | RT | | 1 | | 1 | | |
| | | 0010 | | 291+20 | | LT | | 1 | | 1 | | |
| | | 0010 | | 291+20 | | RT | | 1 | | 1 | | |
| | | | | | PROJECT 8640 | 0-00-71 TOTAL 0010 | 0 | 4 | | 4 | 0 | |
| | | 0010 | | 337+70 | | LT | | 1 | | 1 | | |
| | | 0010 | | 337+80 | | RT | | 1 | | 1 | | |
| | | 0010 | | 339+00 | | LT | | 1 | | 1 | | |
| | | 0010 | | 339+10 | | RT | | 1 | | 1 | | |
| | | 0010 | | 340+20 | | RT | 1 | | | | 1 | |
| | | | | | PROJECT 8640 | 0-00-73 TOTAL 0010 | 1 | 4 | | 4 | 1 | |
| | | | | | TC | OTALS | 1 | 8 | | 8 | 1 | |
| | | DURATION | 643.0300 TRAFFIC CONTROL DRUMS | 643.0420 TRAFFIC CONTROL BARRICADES TYPE III | 643.0705 TRAFFIC CONTROL WARNING LIGHTS TYPE A | 643.0900 TRAFFIC CONTROL SIGNS | 643.09 TRAFFIC CONTRO SIGNS TY |)L COVERING | 643.1000 TRAFFIC CONTROL SIGNS FIXED MESSAGE | | | |
| CATEGORY | LOCATION | DAYS | DAY | DAY | DAY | DAY | NO. CYCLES | EACH | SF | | | REMARKS |
| 0010 | ADVANCE WARNING | 7 | | | | | | | 18 | PLACE G2 | 20-57 SIGNS 7 DAYS PF | RIOR TO CONSTRUCTION, REMOVE WHEN CONSTRUCTION BEGINS |
| 0010 | PROJECT | 115 | | 1,840 | 2,530 | 9,775 | 1 | 6 | | | | DETOUR |
| 0010 | UNDISTRIBUTED | | 20 | 100 | 200 | 300 | | | | | | |
| | PROJECT 8640-00-71 TOTAL 0010 | • | 20 | 1,940 | 2,730 | 10,075 | _ | 6 | 18 | | | |
| 0010 | ADVANCE WARNING | 7 | | | | | | | 18 | PLACE G2 | 20-57 SIGNS 7 DAYS PF | RIOR TO CONSTRUCTION, REMOVE WHEN CONSTRUCTION BEGIN: |
| 0010 | PROJECT | 115 | | 1,840 | 2,530 | 9,775 | 1 | 6 | 8.2 | | | DETOUR |
| 0010 | UNDISTRIBUTED | | 20 | 100 | 200 | 300 | | | | | | |
| | PROJECT 8640-00-73 TOTAL 0010 | • | 20 | 1,940 | 2,730 | 10,075 | _ | 6 | 26.2 | | | |
| | | TOTALS | 40 | 3,880 | 5,460 | 20,150 | = | 12 | 44.2 | | | |
| | | | | | | | | | | | | |
| | | | CATEGORY | STATION | LOCATION | 606.0200 RIPRAP MEDIUM CY | 645.0120 GEOTEXTILE TYPE HR SY | | REMARKS | | | |
| | | | CATEGORY | STATION | LOCATION | CI | 31 | | ILIVIANNO | | | |
| | | | 0010 | 291+70 | LT | 3 | 9 | C(| ONCRETE SURFACE | DRAIN | | |
| | | | | PROJECT 8460 | -00-71 TOTAL 0010 | 3 | 9 | | | | | |
| | | | 0010 | 337+27 | LT | 3 | 9 | CO | ONCRETE SURFACE | DRAIN | | |
| | | | 0010 | 337+40 | RT | 3 | 9 | CC | ONCRETE SURFACE | DRAIN | | |
| | | | | PROJECT 8460 | -00-73 TOTAL 0010 | 6 | 18 | _ | | | | |
| | | | | | TOTALS | 9 | 27 | - | | | | |
| | | | | | | | | | | | | |

638.2102

TYPE II

638.2602

TYPE II

638.3000

SIGN SUPPORTS SIGN SUPPORTS

MOVING SIGNS REMOVING SIGNS REMOVING SMALL MOVING SMALL

638.4000

PROJECT NO: 8640-00-71,8640-00-73

HWY: STH 79

COUNTY: DUNN

MISCELLANEOUS QUANTITIES

E

SHEET

646.1020 MARKING LINE EPOXY 4-INCH

| | | | | | LFOXT 4-INCIT | |
|----------|---------|----|---------|-------------------------------|---------------|-------------------|
| CATEGORY | STATION | TO | STATION | LOCATION | LF | REMARKS |
| | | | | | | |
| 0010 | 285+00 | - | 297+50 | MAINLINE | 2,500 | WHITE EDGELINE |
| 0010 | 285+00 | - | 297+50 | MAINLINE | 2,500 | YELLOW CENTERLINE |
| | | | | _ | | |
| | | | | PROJECT 8640-00-71 TOTAL 0010 | 5,000 | |
| | | | | | | |
| 0010 | 332+50 | - | 341+67 | MAINLINE | 1,840 | WHITE EDGELINE |
| 0010 | 332+50 | - | 342+25 | MAINLINE | 1,020 | YELLOW CENTERLINE |
| | | | | | | |
| | | | | PROJECT 8640-00-73 TOTAL 0010 | 2,860 | |
| | | | | _ | | |
| | | | | TOTAL | 7,860 | |
| | | | | | • | |

| | | | | | 650.4500 | 650.5000 | 650.5500 | 650.6500.01 | 650.6500.01 | 650.9910.01 CONSTRUCTION | 650.9910.01 CONSTRUCTION | 650.9920 |
|----------|-----------|----|-----------|-------------------------------|--------------|--------------|------------------------------|-------------------------|-------------------------|-----------------------------|-----------------------------|---------------|
| | | | | | CONSTRUCTION | | CONSTRUCTION STAKING CURB | CONSTRUCTION STAKING | CONSTRUCTION STAKING | STAKING SUPPLEMENTAL | STAKING SUPPLEMENTAL | CONSTRUCTION |
| | | | | | STAKING | CONSTRUCTION | GUTTER AND CURB | | STRUCTURE LAYOUT | CONTROL (8640- | CONTROL (8640- | STAKING SLOPE |
| | | | | | SUBGRADE | STAKING BASE | & GUTTER | (B-17-0368) | (B-17-0369) | 00-71) | 00-73) | STAKES |
| CATEGORY | STATION | TO | STATION | LOCATION | LF | LF | LF | LS | (B 17 0303) LS | LS | LS | LF |
| <u> </u> | 317111311 | | 0.711.011 | 200,111011 | | | | | | | | |
| 0010 | 285+00 | - | 290+42 | | 542 | 542 | | | | | | 542 |
| 0010 | 291+13 | - | 297+50 | | 637 | 637 | 67 | | | | | 637 |
| 0010 | | | | PROJECT 8640-00-71 | | | | 1 | | 1 | | |
| | | | | PROJECT 8640-00-71 TOTAL 0010 | 1,179 | 1,179 | 67 | 1 | 0 | 1 | 0 | 1,179 |
| 0010 | 222.50 | | 220.00 | | FFO | FFO | 142 | | | | | FFO |
| 0010 | 332+50 | - | 338+00 | | 550 278 | 550 278 | 142 | | | | | 550 278 |
| 0010 | 338+89 | - | 341+67 | DDOJECT 9C40 00 71 | | | | | | | | |
| 0010 | | | | PROJECT 8640-00-71 | | | | | 1 | | 1 | |
| | | | | PROJECT 8640-00-73 TOTAL 0010 | 828 | 828 | 142 | 0 | 1 | 0 | 1 | 828 |
| | | | | | | | | | | | | |
| | | | | TOTALS | 2,007 | 2,007 | 209 | 1 | 1 | 1 | 2 | 2,007 |

HWY: STH 79 COUNTY: DUNN SHEET E PROJECT NO: 8640-00-71,8640-00-73 MISCELLANEOUS QUANTITIES FILE NAME : P:\90\$\93\00093461\CADD\C3D\\$HEETSOTHER\030201_MQ.DWG LAYOUT NAME - 030201-mq PLOT NAME :

PLOT BY: DAVE KATZNER PLOT DATE: 3/10/2020 8:11 AM

PROJECT LOCATION

CONVENTIONAL SYMBOLS

SECTION

ORNER

SYMBOL

SECTION

SIGN

P.L.

11/1/1/1/

TO BE REMOVED

AC.

ALUM

BLK

C/L

DIST

DOC

EX

GN

ID

MON

NGS

CONVENTIONAL ABBREVIATIONS

MONUMENT

ELECTRIC POLE

TELEPHONE POLE

PEDESTAL (LABEL TYPE)

(TV. TEL. FLEC. FTC.)

GEODETIC SURVEY MONUMENT

SIXTEENTH CORNER MONUMENT

ACCESS RESTRICTED BY ACQUISITION

ACCESS RESTRICTED (BY PREVIOUS

POINT OF INTERSECTION

RESTRICTIVE DEVELOPMENT

PROJECT OR CONTROL)

NO ACCESS (NEW HIGHWAY)

PARALLEL OFFSETS

PROPERTY | INF

RECORDED AS

REMAINING

RIGHT RIGHT OF WAY

SECTION

STATION

VOLUME

LONG CHORD LONG CHORD BEARING

DEGREE OF CURVE

LENGTH OF CURVE

DIRECTION AHEAD

DIRECTION BACK

CENTRAL ANGLE

RADIUS

TANGENT

SEPTIC VENT

SOUARE FEET

REEL / IMAGE

REFERENCE LINE

EASEMENT

STATE TRUNK HIGHWAY

TELEPHONE PEDESTAL

TRANSPORTATION PROJECT

UNITED STATES HIGHWAY

CURVE DATA

TEMPORARY LIMITED

FASEMENT

NO ACCESS (BY STATUTORY AUTHORITY)

SECTION LINE

QUARTER LINE

SIXTEENTH LINE

NEW RAWLINE

PROPERTY LINE

LOT, TIE & OTHER

SLOPE INTERCEPT

CORPORATE LIMITS

UNDERGROUND FACILITY

NEW R/W (FEE OR HE)

TEMPORARY LIMITED

(PERMANENT LIMITED OR

RESTRICTED DEVELOPMENT)

TRANSMISSION STRUCTURES

EASEMENT AREA

ACCESS RIGHTS

ACRES

AHEAD

BACK

BLOCK

COUNTY

DISTANCE

FASEMENT

EXISTING

MONUMEN.

NUMBER

GAS VALVE

GRID NORTH HIGHWAY EASEMEN

IDENTIFICATION

LAND CONTRACT

NATIONAL GEODETIC SURVEY

POINT OF TANGENCY

PERMANENT LIMITED

POINT OF BEGINNING

POINT OF COMPOUND CURVE

POINT OF CURVATURE

EASEMENT

CORNER

ALUMINUM

AND OTHERS

CENTERLINE

CERTIFIED SURVEY MAP

COUNTY TRUNK HIGHWAY

DOCUMENT NUMBER

EXISTING R/W OR HE LINE

R/W MONUMENT (TO BE SET)

R/W POINT

OFF-PREMISE

PΙ

(100')

R/I

R/L

REM

RDE

SEPV

STH

STA

TLE

TPP

USH

△/DELTA

TELEPHONE

TRANSMISSION LINES

CABLE TELEVISION FIBER OPTIC

SANITARY SEWER

OVERHEAD

NON-MONUMENTED

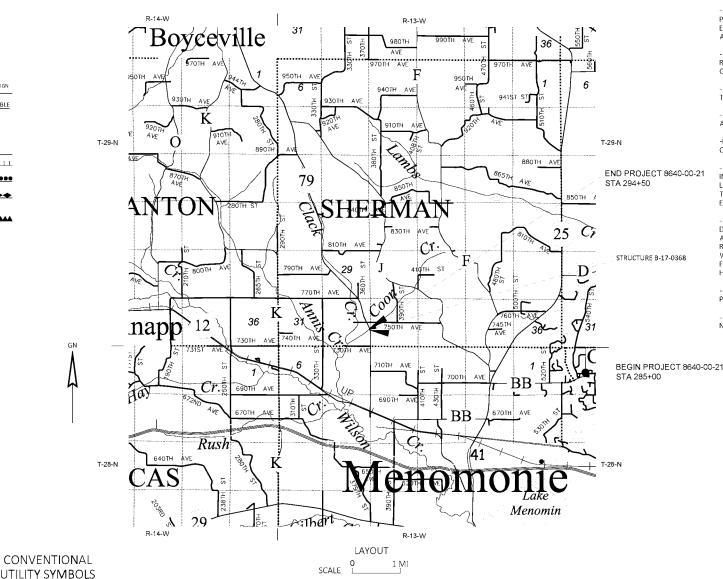
FOUND IRON PIN (1-INCH UNLESS NOTED)

.......

STATE OF WISCONSIN **DEPARTMENT OF TRANSPORTATION** TRANSPORTATION PROJECT PLAT TITLE SHEET 8640-00-21 **MENOMONIE-BOYCEVILLE**

COON CREEK BRIDGE B-17-0368

STH 79 DUNN COUNTY



THE NOTES, CONVENTIONAL SIGNS, AND ABBREVIATIONS ARE ASSOCIATED WITH FACH TRANSPORTATION PROJECT PLAT FOR PROJECT 8640-00-21.

NOTES:

-POSITIONS SHOWN ON THIS PLAT ARE WISCONSIN COORDINATE REFERENCE SYSTEM COORDINATES (WISCRS), DUNN COUNTY, NAD83(2011), IN U.S. SURVEY FEET, VALUES ARE GRID COORDINATES, GRID BEARINGS, AND GRID DISTANCES. GRID DISTANCES MAY BE USED AS GROUND DISTANCES.

RIGHT-OF-WAY BOUNDARIES ARE DEFINED WITH COURSES OF THE PERIMETER OF THE HIGHWAY LANDS REFERENCED TO THE U.S. PUBLIC LAND SURVEY SYSTEM OR OTHER "SURVEYS" OF PUBLIC RECORD

- DIMENSIONING FOR THE NEW RIGHT-OF-WAY IS MEASURED ALONG AND PERPENDICULAR TO NEW REFERENCE

- PROPERTY LINES SHOWN ON THIS PLAT ARE DRAWN FROM DATA DERIVED FROM MAPS AND DOCUMENTS OF PUBLIC RECORD AND/OR EXISTING OCCUPATIONAL LINES. THIS PLAT MAY NOT BE A TRUE REPRESENTATION OF EXISTING PROPERTY LINES, EXCLUDING RIGHT-OF-WAY, AND SHOULD NOT BE USED AS A SUBSTITUTE FOR AN

- ALL RIGHT-OF-WAY LINES DEPICTED IN THE NON-ACQUISITION AREAS ARE INTENDED TO RE-ESTABLISH EXISTING RIGHT-OF WAY LINES AS DETERMINED FROM PREVIOUS PROJECTS, OTHER RECORDED DOCUMENTS, OR FROM CENTERLINE OF EXISTING PAVEMENTS

- PARCEL AND UTILITY IDENTIFICATION NUMBERS MAY NOT POINT TO ALL AREAS OF ACQUISITION, AS NOTED ON THE

- INFORMATION FOR THE BASIS OF EXISTING HIGHWAY RIGHT-OF-WAY POINTS OF REFERENCE AND ACCESS CONTROL

FOR CURRENT ACCESS/DRIVEWAY INFORMATION, CONTACT THE PLANNING UNIT OF THE WISCONSIN DEPARTMENT OF TRANSPORTATION OFFICE IN FAU CLAIRE, WISCONSIN

- A TEMPORARY LIMITED EASEMENT (TLE) IS A RIGHT FOR CONSTRUCTION PURPOSES, AS DEFINED HEREIN, INCLUDING THE RIGHT TO OPERATE NECESSARY EQUIPMENT THEREON, THE RIGHT OF INGRESS AND EGRESS, AS LONG AS REQUIRED FOR SUCH PUBLIC PURPOSE, INCLUDING THE RIGHT TO PRESERVE PROTECT, REMOVE, OR PLANT THEREON ANY VEGETATION THAT THE HIGHWAY AUTHORITIES MAY DEEM DESIRABLE. ALL (TLES) ON THIS PLAT EXPIRE AT THE COMPLETION OF THE CONSTRUCTION PROJECT FOR WHICH THIS INSTRUMENT IS GIVEN

A PERMANENT LIMITED EASEMENT (PLE) IS A RIGHT FOR CONSTRUCTION AND MAINTENANCE PURPOSES, AS DEFINED HEREIN, INCLUDING THE RIGHT TO OPERATE NECESSARY EQUIPMENT THEREON AND THE RIGHT OF INGRESS AND EGRESS. AS LONG AS REQUIRED FOR SUCH PUBLIC PURPOSE, INCLUDING THE RIGHT TO PRESERVE, PROTECT. REMOVE OR PLANT THEREON ANY VEGETATION THAT THE HIGHWAY AUTHORITIES MAY DEEM DESIRABLE, BUT WITHOUT PREJUDICE TO THE OWNER'S RIGHT TO MAKE OR CONSTRUCT IMPROVEMENTS ON SAID LANDS OR TO FLATTEN THE SLOPES, PROVIDING SAID ACTIVITIES WILL NOT IMPAIR OR OTHERWISE ADVERSELY AFFECT THE

- AN EASEMENT FOR HIGHWAY PURPOSES (HE). AS LONG AS SO USED, INCLUDING THE RIGHT TO PRESERVE

ALL NEW RIGHT-OF-WAY MONUMENTS WILL BE TYPE 2 (TYPICALLY ¾" X 24" IRON REBARS), UNLESS OTHERWISE NOTED, AND WILL BE PLACED PRIOR TO THE COMPLETION OF THE PROJECT

> PROJECT NUMBER: 8840-00-21 - 4.01 SHEET: 2 OF 2 AMENDMENT NO:

P:\90\$\93\00093461\CADD\C3D\RIGHTOFWAY\DWG\RW 8640-00-01 03.DWG

9/16/2015 3:04 PM

CHAD BESAW

PLOT BY :

PLOT NAME

APPRAISAL PLAT DATE: 2/1/2021

P:\90S\93\00093461\CADD\C3D\RIGHTOFWAY\DWG\RW 8640-00-01 03.DWG FILE NAME: APPRAISAL PLAT DATE: 2/3/2021

27 289+61.44 LT 50.16' 0.75" IRON ROD 197280.185 148906.036

110 291+48.57 RT 50.00' 197488.463 148946.403 112 291+26.62 RT 76.78' 197475.990 148979.123

113 290+43.39 RT 50.00' 197386.373 148979.969

114 289+74.10 RT 50.00' 197318.324 148999.506 115 291+48.57 RT 60.00' 197491.803 148955.828

116 291+32.29 RT 60.00' 197476.033 148961.354

4/12/2021 3:24 PM

CHAD BESAW

PLOT BY:

PLOT SCALE : 1 IN:50 FT THIS PLAT AND RELOCATION ORDER ARE APPROVED FOR THE WISCONSIN DEPARTMENT OF TRANSPORTATION

REGISTRATION NUMBER: \$3029

NORTHWEST REGION - EAU CLAIRE SIGNATURE: Weather & DASH

PRINT NAME: HEATHER L DRESEL

PROJECT LOCATION

STATE OF WISCONSIN **DEPARTMENT OF TRANSPORTATION** TRANSPORTATION PROJECT PLAT TITLE SHEET 8640-00-23

CLACK CREEK BRIDGE B-17-0369

MENOMONIE-CONNORSVILLE

STH 79

CONVENTIONAL SYMBOLS R/W MONUMENT (TO BE SET) **DUNN COUNTY** SECTION SECTION LINE ORNER QUARTER LINE NON-MONUMENTED SYMBOL R/W POINT SIXTEENTH LINE SECTION FOUND IRON PIN (1-INCH UNLESS NOTED) Boyceville MONUMENT NEW RAW LINE GEODETIC SURVEY MONUMENT EXISTING R/W OR HE LINE SIXTEENTH CORNER MONUMENT P.L. PROPERTY LINE OFF-PREMISE SIGN LOT, TIE & OTHER SLOPE INTERCEPT ELECTRIC POLE CORPORATE LIMITS 11/1/1/1/ TELEPHONE POLE UNDERGROUND FACILITY PEDESTAL (LABEL TYPE) T-29-N T-29-N (TV. TEL. FLEC. FTC.) NEW R/W (FEE OR HE) ACCESS RESTRICTED BY ACQUISITION END PROJECT 8640-00-23 TEMPORARY LIMITED NO ACCESS (BY STATUTORY AUTHORITY) •••••• EASEMENT AREA ACCESS RESTRICTED (BY PREVIOUS **** (PERMANENT LIMITED OR PROJECT OR CONTROL) RESTRICTED DEVELOPMENT) NO ACCESS (NEW HIGHWAY) TRANSMISSION STRUCTURES 25 STRUCTURE B-17-0369 TO BE REMOVED PARALLEL OFFSETS BEGIN PROJECT 8640-00-23 STA 332+25 **CONVENTIONAL ABBREVIATIONS** 36 POINT OF INTERSECTION ACCESS RIGHTS PΙ PROPERTY | INF ACRES (100') AHEAD RECORDED AS ALUMINUM REEL / IMAGE ALUM R/I REFERENCE LINE AND OTHERS R/L BACK REMAINING REM BLOCK RESTRICTIVE DEVELOPMENT RDE BLK CENTERLINE EASEMENT C/L CERTIFIED SURVEY MAP RIGHT RIGHT OF WAY COUNTY SECTION COUNTY TRUNK HIGHWAY SEPTIC VENT SEPV Rush DISTANCE DIST SOUARE FEET CORNER STATE TRUNK HIGHWAY STH T-28-N DOCUMENT NUMBER DOC STATION STA TELEPHONE PEDESTAL FASEMENT TEMPORARY LIMITED EXISTING TLE GAS VALVE FASEMENT Menomin TPP TRANSPORTATION PROJECT GRID NORTH GN HIGHWAY EASEMEN UNITED STATES HIGHWAY IDENTIFICATION TD USH R-13-W LAND CONTRACT VOLUME LAYOUT CONVENTIONAL MONUMEN' MON SCALE **CURVE DATA** UTILITY SYMBOLS NATIONAL GEODETIC SURVEY NGS NUMBER

TELEPHONE

TRANSMISSION LINES

CABLE TELEVISION FIBER OPTIC

SANITARY SEWER

OVERHEAD

THE NOTES, CONVENTIONAL SIGNS, AND ABBREVIATIONS ARE ASSOCIATED WITH EACH TRANSPORTATION PROJECT PLAT FOR PROJECT 8640-00-23

NOTES:

-POSITIONS SHOWN ON THIS PLAT ARE WISCONSIN COORDINATE REFERENCE SYSTEM COORDINATES (WISCRS), DUNN COUNTY, NAD83(2011), IN U.S. SURVEY FEET, VALUES ARE GRID COORDINATES, GRID BEARINGS, AND GRID DISTANCES. GRID DISTANCES MAY BE USED AS GROUND DISTANCES.

- RIGHT-OF-WAY BOUNDARIES ARE DEFINED WITH COURSES OF THE PERIMETER OF THE HIGHWAY LANDS REFERENCED TO THE U.S. PUBLIC LAND SURVEY SYSTEM OR OTHER "SURVEYS" OF PUBLIC RECORD
- DIMENSIONING FOR THE NEW RIGHT-OF-WAY IS MEASURED ALONG AND PERPENDICULAR TO NEW REFERENCE
- PROPERTY LINES SHOWN ON THIS PLAT ARE DRAWN FROM DATA DERIVED FROM MAPS AND DOCUMENTS OF PUBLIC RECORD AND/OR EXISTING OCCUPATIONAL LINES. THIS PLAT MAY NOT BE A TRUE REPRESENTATION OF XISTING PROPERTY LINES, EXCLUDING RIGHT-OF-WAY, AND SHOULD NOT BE USED AS A SUBSTITUTE FOR AN
- ALL RIGHT-OF-WAY LINES DEPICTED IN THE NON-ACQUISITION AREAS ARE INTENDED TO RE-ESTABLISH EXISTING RIGHT-OF WAY LINES AS DETERMINED FROM PREVIOUS PROJECTS, OTHER RECORDED DOCUMENTS, OR FROM CENTERLINE OF EXISTING PAVEMENTS
- PARCEL AND UTILITY IDENTIFICATION NUMBERS MAY NOT POINT TO ALL AREAS OF ACQUISITION, AS NOTED ON THE
- INFORMATION FOR THE BASIS OF EXISTING HIGHWAY RIGHT-OF-WAY POINTS OF REFERENCE AND ACCESS CONTROL
- FOR CURRENT ACCESS/DRIVEWAY INFORMATION, CONTACT THE PLANNING UNIT OF THE WISCONSIN DEPARTMENT OF TRANSPORTATION OFFICE IN FAU CLAIRE, WISCONSIN
- A TEMPORARY LIMITED EASEMENT (TLE) IS A RIGHT FOR CONSTRUCTION PURPOSES, AS DEFINED HEREIN, INCLUDING THE RIGHT TO OPERATE NECESSARY EQUIPMENT THEREON, THE RIGHT OF INGRESS AND EGRESS, AS LONG AS REQUIRED FOR SUCH PUBLIC PURPOSE, INCLUDING THE RIGHT TO PRESERVE PROTECT, REMOVE, OR PLANT THEREON ANY VEGETATION THAT THE HIGHWAY AUTHORITIES MAY DEEM DESIRABLE. ALL (TLES) ON THIS PLAT EXPIRE AT THE COMPLETION OF THE CONSTRUCTION PROJECT FOR WHICH THIS INSTRUMENT IS GIVEN
- A PERMANENT LIMITED FASEMENT (PLE) IS A RIGHT FOR CONSTRUCTION AND MAINTENANCE PURPOSES, AS DEFINED HEREIN, INCLUDING THE RIGHT TO OPERATE NECESSARY EQUIPMENT THEREON AND THE RIGHT OF INGRESS AND EGRESS. AS LONG AS REQUIRED FOR SUCH PUBLIC PURPOSE, INCLUDING THE RIGHT TO PRESERVE, PROTECT. REMOVE OR PLANT THEREON ANY VEGETATION THAT THE HIGHWAY AUTHORITIES MAY DEEM DESIRABLE, BUT WITHOUT PREJUDICE TO THE OWNER'S RIGHT TO MAKE OR CONSTRUCT IMPROVEMENTS ON SAID LANDS OR TO FLATTEN THE SLOPES, PROVIDING SAID ACTIVITIES WILL NOT IMPAIR OR OTHERWISE ADVERSELY AFFECT THE
- AN EASEMENT FOR HIGHWAY PURPOSES (HE). AS LONG AS SO USED, INCLUDING THE RIGHT TO PRESERVE
- ALL NEW RIGHT-OF-WAY MONUMENTS WILL BE TYPE 2 (TYPICALLY ¾" X 24" IRON REBARS), UNLESS OTHERWISE NOTED, AND WILL BE PLACED PRIOR TO THE COMPLETION OF THE PROJECT

PROJECT NUMBER: 8640-00-23 - 4.01 SHEET: 2 OF 2 AMENDMENT NO:

APPRAISAL PLAT DATE: 2/1/2021

P:\90\$\93\00093461\CADD\C3D\RIGHTOFWAY\DWG\RW 8640-00-01 03.DWG

POINT OF TANGENCY

PERMANENT LIMITED

POINT OF BEGINNING

POINT OF COMPOUND CURVE

POINT OF CURVATURE

EASEMENT

LONG CHORD LONG CHORD BEARING

DEGREE OF CURVE

LENGTH OF CURVE

DIRECTION AHEAD

△/DELTA

CENTRAL ANGLE

RADIUS

TANGENT

9/16/2015 3:04 PM

CHAD BESAW

PLOT BY :

PLOT NAME

TRANSPORTATION PROJECT PLAT NO: 8640-00-23-4.01

THAT PART OF THE SW1/4 - SE 1/4, OF SECTION 29, TOWNSHIP 29 NORTH, RANGE 13 WEST,

TOWN OF SHERMAN, DUNN COUNTY, WISCONSIN

RELOCATION ORDER - STH 79, MENOMONIE - CONNORSVILLE, CLACK CREEK BRIDGE B-17-0369, DUNN COUNTY

TO PROPERLY ESTABLISH, LAY OUT, WIDEN, ENLARGE, EXTEND, CONSTRUCT, RECONSTRUCT, IMPROVE, OR MAINTAIN A PORTION OF THE HIGHWAY DESIGNATED ABOVE, THE STATE OF WISCONSIN DEPARTMENT OF TRANSPORTATION DEEMS IT NECESSARY TO RELOCATE OR CHANGE SAID HIGHWAY AND ACQUIRE CERTAIN LANDS AND INTERESTS OR RIGHTS IN LANDS FOR THE ABOVE PROJECT. TO EFFECT THIS CHANGE, PURSUANT TO AUTHORITY GRANTED UNDER SECTION 84.02 (3), 84.09, AND 84.30, WISCONSIN

| THE L | ANDS OR INTERESTS OR RIGHTS IN L | ANDS AS SHOWN ON THIS | | MENT FOR THE | S SO SHOWN FOR THE ABOVE PROJECT. ABOVE PROJECT AND SHALL BE ACQUIRED IN THE S. | UTILITY INTE | RESTS REQUIRED | | / | | / |
|---|---|--------------------------------------|--|--------------|---|--|---|--|------------------------|--|--|
| FOR ADDIT | FIONAL INFORMATION REFER TO TITI | E SHEET RECORDED AS SE | IEET 2 OF 2. | | | UTILITY | | EQUIRED | | | |
| | | | | | | NUMBER 100 Dunn Energy Co | | | | \ | |
| UTILITY | , | EASEMENT TAB | .E | PARCEL | | 101 AT&T | RELEASE OF | RIGHTS | <u> </u> | °0, 0 | 6 |
| NUMBEI 100 | R OWNERS | DOC. INFO. Doc. No. 194509 | NOTES SE-SW, SW-SE 29-29-13 | LOCATED IN | | | 焼 | | N- | 308/ | |
| 101 | Wisconsin Telephone Company | | E-SW, SW-SE 29-29-13 - 4' either side of existing lines | 1 | | | 1878 | 74, | \$5. 60.50. | \rightarrow | |
| | | | , | | | The state of the s | | | 30), XO1, | SLOPE INTERC | EPT _ |
| */T | 1.75" IRON PIPE | | | | | | N25°. | NATE OF THE PROPERTY OF THE PR | ` | × CSY | ,′ |
| $\frac{1}{3}\left(\begin{array}{c c}32\\29\end{array}\right)$ | Y: 200778.798 X: 146352.122 | | | _ | | \\Z_ | 760.34"E B | | | \\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\ | '' |
| 2 | (OBSERVED) | | R/W POINTS Offset Y X | | | \$\frac{1}{\sigma}\chi_{\sigma} | | | | 6 50. | |
| J | | | 0.00' 201509.422 146962.73 60.00' 201422.301 146963.69 | | TOWN | , N , N , N , N , N , N , N , N , N , N | | ~ | | 00,000, 1 1, 10 / | |
| | 7 | 156 305+66.28 LT 157 306+22.47 LT | 109.44' 201486.174 146832.75 130.50' 201511.812 146778.51 | | | | | | | / 💢 6 | Ð |
| | | 159 307+50.20 LT | 60.00' 201652.570 146740.11 0.00' 201694.366 146783.16 | 4 | | (TS) (\$37.6 | | | STRUCTURE | R-17-0369 | |
| | | 161 307+50.20 RT | |)8 | | ~ 4 | >"W | | J JINOCIONE. | | 01)) |
| | | 164 307+06.68 RT | 265.11' 201847.818 147003.67 | 79 | SW-SE | The state of the s | | | | /\/\ \\ \\ \\ \\ \\ \\ \\ \\ \\ \\ \\ \\ | |
| | | 167 305+00.29 | 60.00' 201556.864 147000.29 0.00' 201515.067 146957.25 | 51 | SEC 29-T29N-R13W | \$ | / | | | | |
| | | 169 305+79.57 LT | 74.00' 201401.972 146963.91 74.00' 201520.397 146848.93 | 33 | | | | - 60x00 /sight | | | |
| 618. | | 170 306+43.65 LT 171 307+50.20 LT | 74.00' 201566.369 146804.29 74.00' 201642.817 146730.06 | | | | | `% | / / % | | No. |
| .67' SEC | | 172 307+50.20 RT | 70.00' 201743.129 146833.38 70.00' 201705.407 146870.00 | | | (A) | X | | | ,09 | 18 |
| SECTION LINE | | | 70.00' 201659.435 146914.64 70.00' 201563.830 147007.47 | | | | OF / | | | / | |
| Ä, | | | 1 | _ | | zui / | / | | | - Far | CLAC |
| N89° | | | | | | | | / - - - | (101) WATERWAY | | |
| 9° 59' | | | | | | | (10) | | (101) WATERWAY 42 S.F. | S25° 17' | , |
| 59'38"E | \ | | | | P.L. 20.33' | 87.13' | 30,8(161) | | | 47" | w _ |
| 2625 | | | | N0°37' | 56"W 730.60' TO R/L | | (15), (| San | | | |
| .34 | | | | | | | 9.70 h | | | | |
| | | | | | | | | \ \(\sigma_{\infty}\)_{\tag{3}\tag{4}\text{0}^{\dag{5}}} | | | |
| | | | | | SLOPE INTERCEPT | | | | SHERMAN | | |
| 2006. | NOTES: -POSITIONS SHOWN ON THIS PL | | | | ely, | ,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,, | | | | | |
| 67' | COORDINATES (WISCRS), DUNN VALUES ARE GRID COORDINATI MAY BE USED AS GROUND DIST. | ES, GRID BEARINGS, AND | N U.S. SURVEY FEET. GRID DISTANCES, GRID DISTANCES | | | 304/ 80. | | R 14 W | R 13 W | € AVE IN IN IN | |
| | | /AY INFORMATION, CONT | ACT THE PLANNING UNIT OF THE | | | 19 6239) X | | sī · | SHER SHER | MAN | |
|] | - ALL NEW RIGHT-OF-WAY MON | IUMENTS WILL BE TYPE 2 | TYPICALLY ¾" X 24" IRON | | | 120.0 | | GN | E CH BIOTH AVE | 830TH AVE ROJEC | |
| 1 | REBARS), UNLESS OTHERWISE N OF THE PROJECT. | | | | | Ø. / Y | | | | AND ST ST | |
| , | -EXISTING HIGHWAY RIGHT-OF- POINTS OF REFERENCE: - PREVIOUS PROJECT - STA | | ASED ON THE FOLLOWING | | Sinki | 874 | | SHEET L | OCATION AVE 29 " | 41:0TH ST | I, CHAD A COMPLIA UNDER TI |
| | - PREVIOUS PROJECT - STI - EXISTING CENTERLINE O | | | | / 5 | / % | | DUNN COUNTY | 770TH AVE A | | MAPPED EXTERIOR |
| | | | | | | / | | DUNN COUNTY NOT TO SCALE 36 | K 3 CO | 50TH AVE | inth |
| * | 211 411114 1424 | | | | , | / | | TH A | | T 29 N | ************************************** |
| 32 | 3" ALUM. MON. Y: 200779.076 | | | | | | | • | | TH AVE T 28 N | |

SCHEDULE OF LANDS & INTERESTS REQUIRED

Robert A. Bird and Lynda Bird, husband and wife as

OWNERS

PARCEL

NUMBER

650817 DUNN COUNTY, WI REGISTER OF DEEDS HEATHER M. KUHN RECORDED ON 04/13/2021 12:28 PM

REC FEE: 25.00

RESERVED FOR REGISTER OF DEEDS PROJECT NUMBER: 8640-00-23-4.01 AMENDENT NO:___

COURSE TABLE ART PT # END PT # BEARING 171 159 N45° 50' 40"E 14.00' 172 N45° 50' 40"E 10.00' 161 172 173 S44° 09' 20"E 52.58' 175 166 S45° 50' 40"W 10.00' 167 152 \$44° 09' 20"E 7.87'

ENGINEERING | ARCHITECTURE | SURVEYING FUNDING | PLANNING | ENVIRONMENTAL 1835 North Stevens Street, Rhinelander wil 54501 (715) 362-3244 www.msa-ps.com (715) 464 (715) 465 (715) 467 (71

OFESSIONAL LAND SURVEYOR, HEREBY CERTIFY THAT IN FULL
THE PROVISIONS OF SECTION 84.095 OF THE WISCONSIN STATUTES AND N OF THE DEPARTMENT OF TRANSPORTATION, I HAVE SURVEYED AND PORTATION PROJECT PLAT AND SUCH PLAT CORRECTLY REPRESENTS ALL ES OF THE SURVEYED LAND. e surveyed land.

SIGNATURE: _______ DATE: 4/12/2021



PRINT NAME: CHAD A. BESAW REGISTRATION NUMBER: \$3029

THIS PLAT AND RELOCATION ORDER ARE APPROVED FOR

THE WISCONSIN DEPARTMENT OF TRANSPORTATION NORTHWEST REGION - EAU CLAIRE SIGNATURE: Weather & Dresel

PRINT NAME: HEATHER DRESEL

P:\90\$\93\00093461\CADD\C3D\RIGHTOFWAY\DWG\RW 8640-00-01_03.DWG FILE NAME :

4/12/2021 3:28 PM

CHAD BESAW

OWNER'S NAMES ARE FOR REFERENCE PURPOSES ONLY AND ARE SUBJECT

5,558

PLE SQ FT TLE SQ FT

TO CHANGE PRIOR TO THE TRANSFER OF LAND INTERESTS TO THE

R/W SQ FT REQUIRED SQ FT

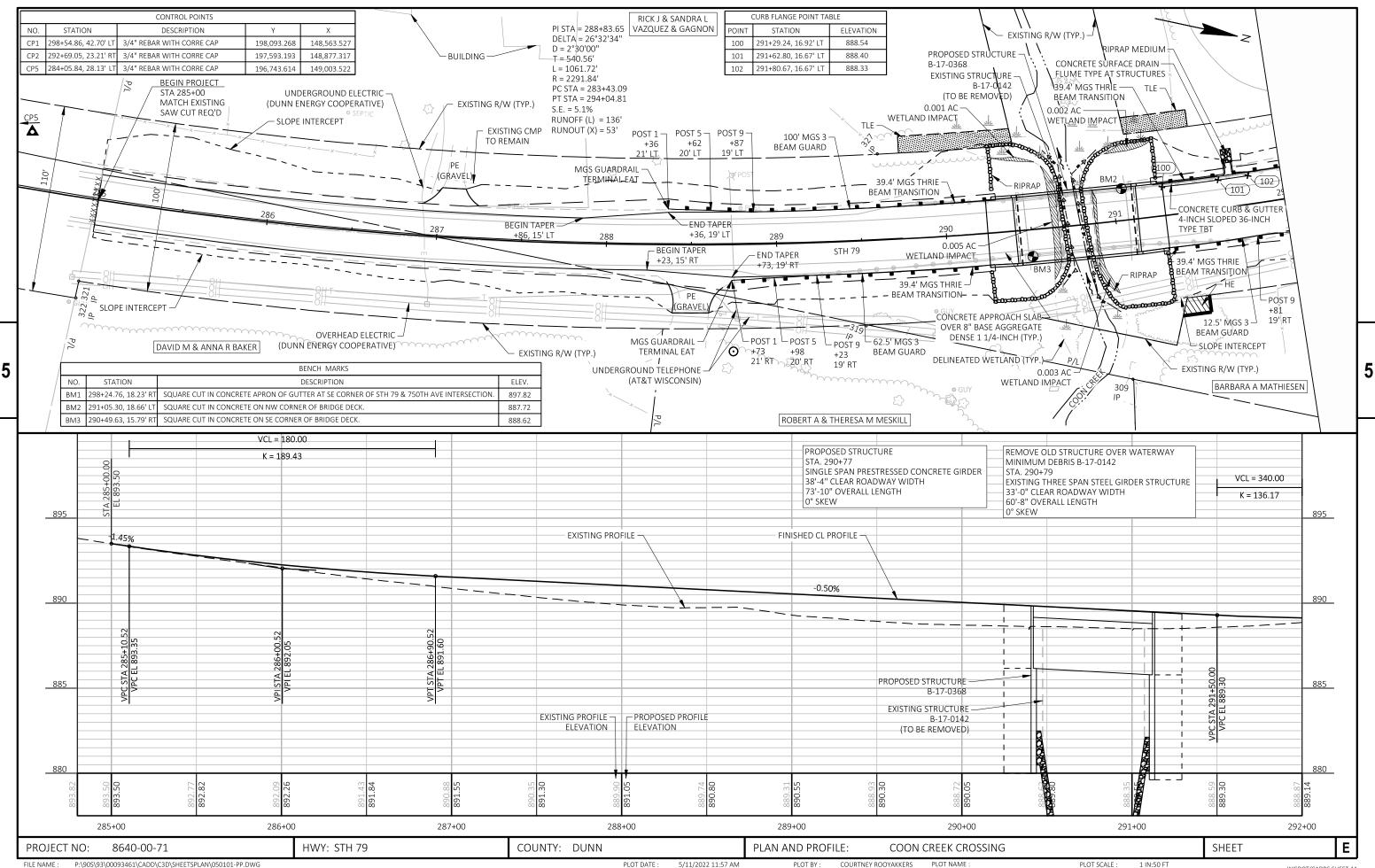
NEW EXISTING TOTAL HE

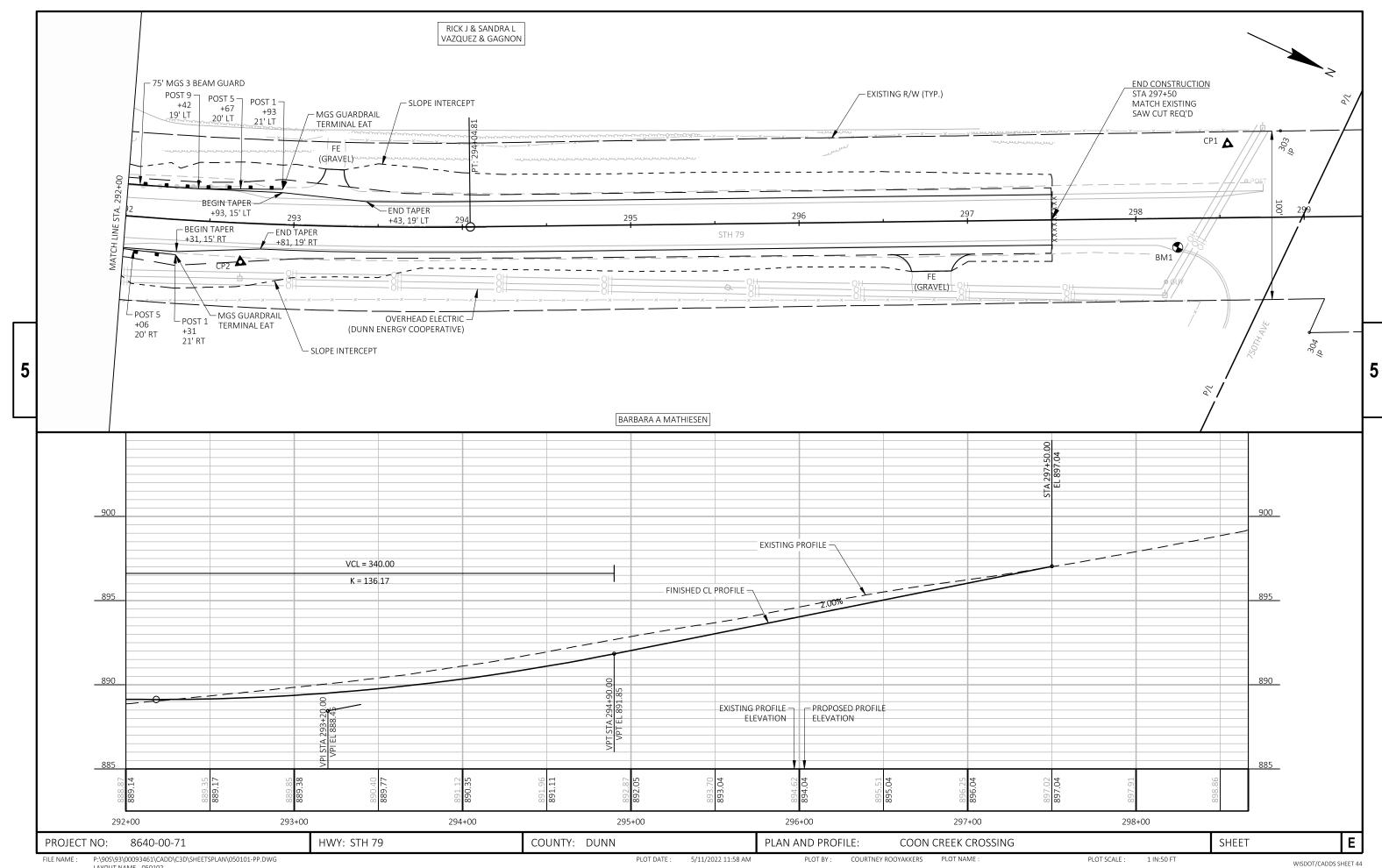
DEPARTMENT

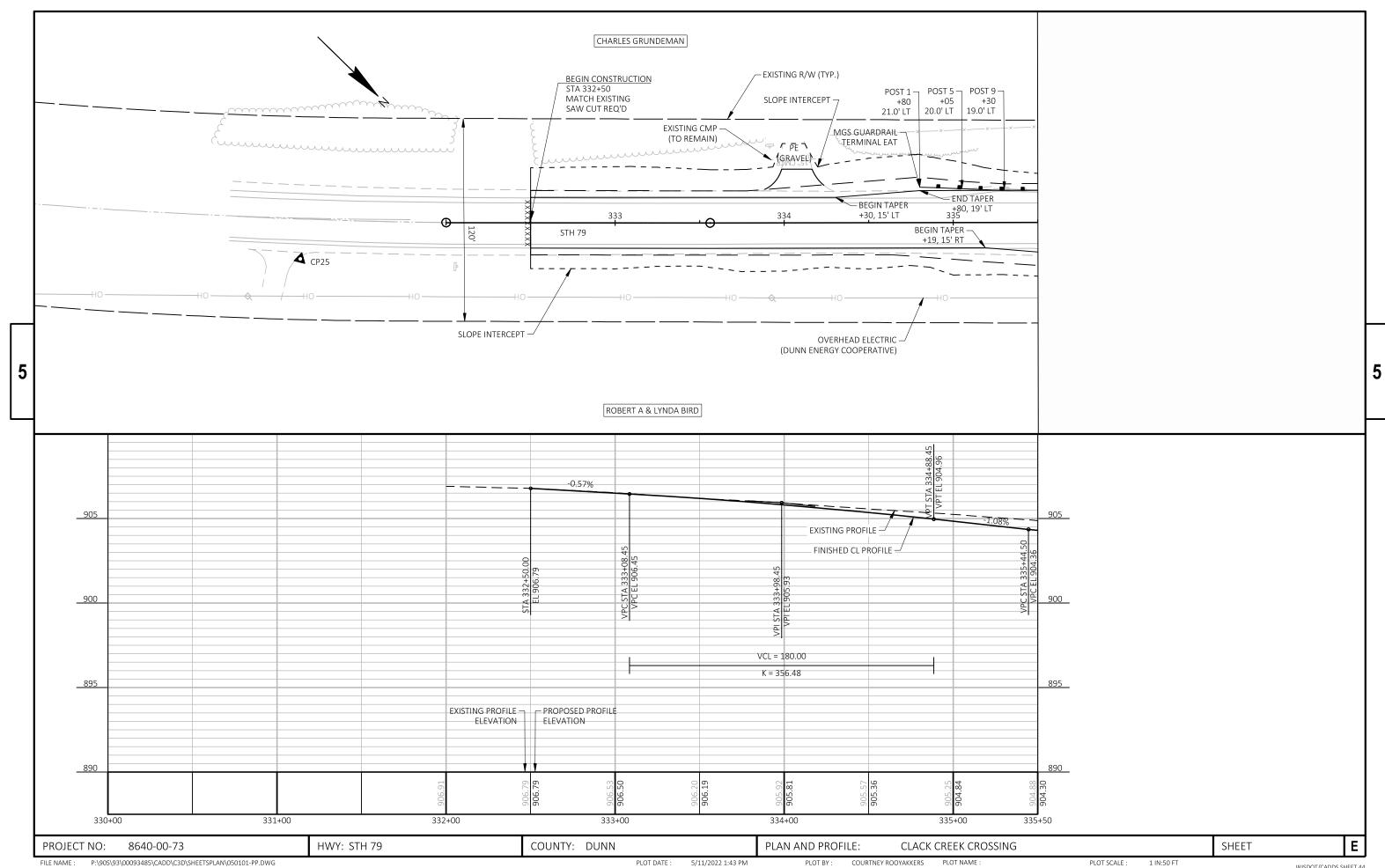
REQUIRED

PLOT NAME:

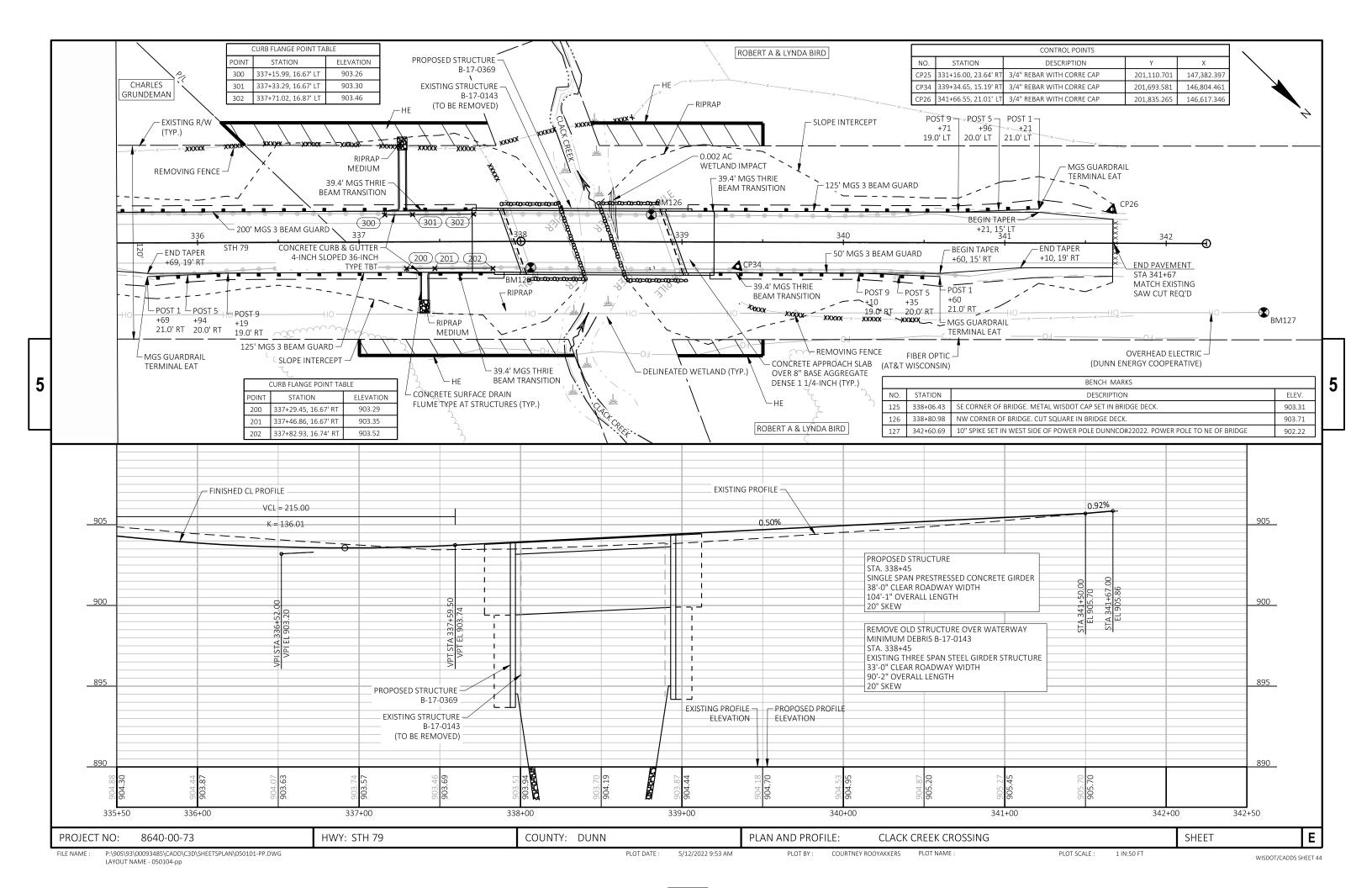
PLOT SCALE :





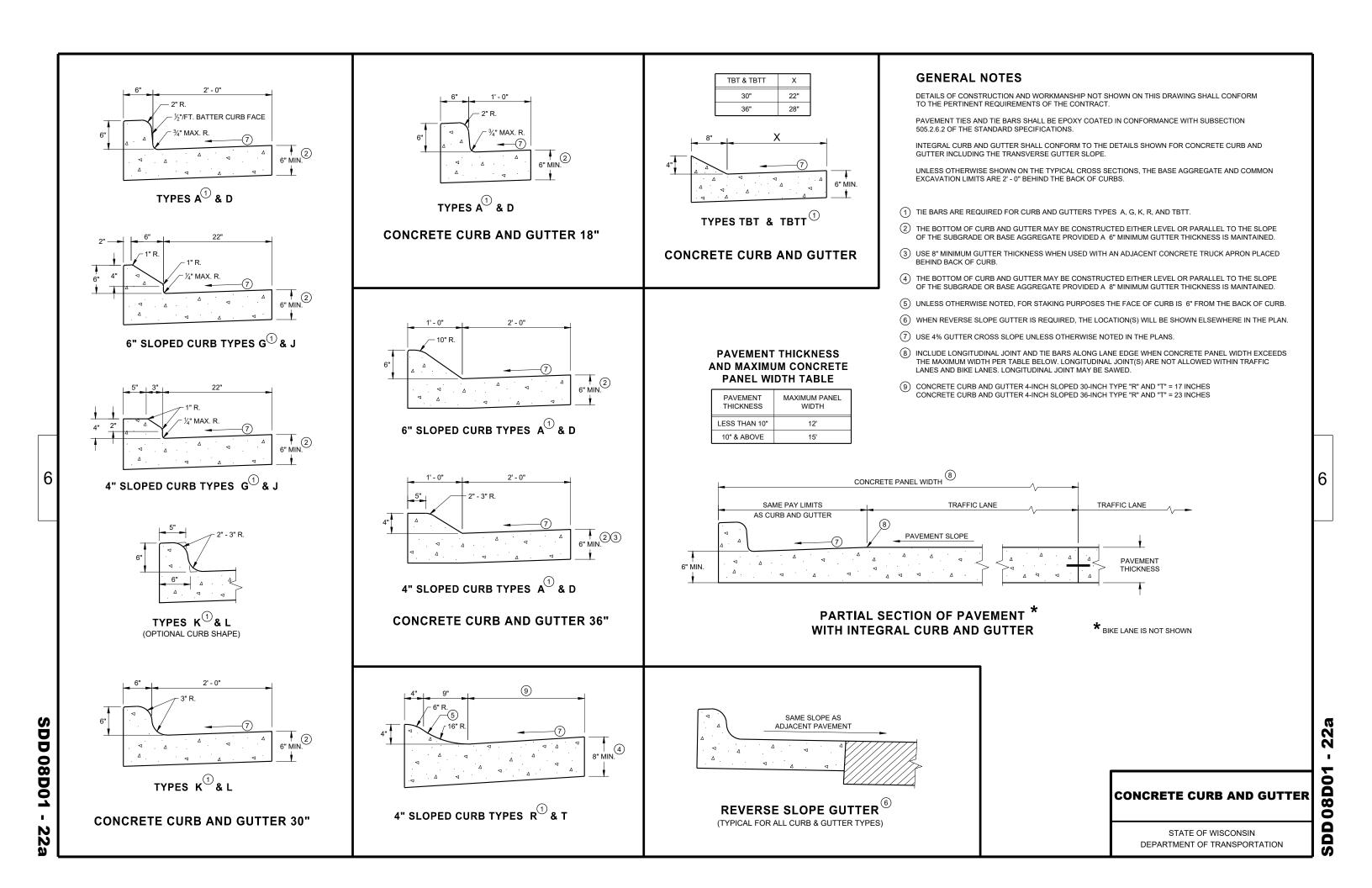


WISDOT/CADDS SHEET 44



Standard Detail Drawing List

| 08D01-22A | CONCRETE CURB & GUTTER |
|-----------|---|
| 08D01-22B | CONCRETE CURB, TIES AND CURB AND GUTTER APPLICATIONS |
| 08D02-07A | CONCRETE SURFACE DRAINS FLUME TYPE AT STRUCTURES |
| 08D02-07B | CONCRETE SURFACE DRAINS FLUME TYPE AT STRUCTURES |
| 08D02-07C | CONCRETE SURFACE DRAINS FLUME TYPE AT STRUCTURES |
| 08D04-06 | CONCRETE SURFACE DRAINS & ASPHALTIC FLUMES |
| 08E08-03 | TYPICAL INSTALLATIONS OF EROSION BALES / TEMPORARY DITCH CHECKS |
| 08E09-06 | |
| 08E11-02 | TURBI DI TY BARRI ER |
| 08E15-01 | CULVERT PIPE CHECK |
| 12A03-10 | NAME PLATE (STRUCTURES) |
| 13B02-09A | CONCRETE PAVEMENT APPROACH SLAB |
| 13C19-03 | HMA LONGITUDINAL JOINTS |
| 14B29-01 | SAFETY EDGE |
| 14B42-07A | MIDWEST GUARDRAIL SYSTEM (MGS) GUARDRAIL |
| 14B42-07B | MIDWEST GUARDRAIL SYSTEM (MGS) GUARDRAIL |
| 14B42-07C | MIDWEST GUARDRAIL SYSTEM (MGS) GUARDRAIL |
| 14B42-07D | MIDWEST GUARDRAIL SYSTEM (MGS) GUARDRAIL |
| 14B44-04A | MIDWEST GUARDRAIL SYSTEM ENERGY ABSORBING TERMINAL (MGS) |
| 14B44-04B | MIDWEST GUARDRAIL SYSTEM ENERGY ABSORBING TERMINAL (MGS) |
| 14B44-04C | MIDWEST GUARDRAIL SYSTEM ENERGY ABSORBING TERMINAL (MGS) |
| 14B45-05A | MIDWEST GUARDRAIL SYSTEM THRIE BEAM TRANSITION (MGS) |
| 14B45-05B | MIDWEST GUARDRAIL SYSTEM THRIE BEAM TRANSITION (MGS) |
| 14B45-05C | MIDWEST GUARDRAIL SYSTEM THRIE BEAM TRANSITION (MGS) |
| 14B45-05D | MIDWEST GUARDRAIL SYSTEM THRIE BEAM TRANSITION (MGS) |
| 14B45-05E | MIDWEST GUARDRAIL SYSTEM THRIE BEAM TRANSITION (MGS) |
| 15C02-08A | BARRICADES AND SIGNS FOR MAINLINE CLOSURES |
| 15C02-08B | BARRICADES AND SIGNS FOR VARIOUS CLOSURES |
| 15C02-08C | DETOUR SIGNING FOR MAINLINE CLOSURES |
| 15006-09 | SIGNING & MARKING FOR TWO LANE BRIDGES |
| 15C08-20A | |
| 15C11-09B | CHANNELIZING DEVICES DRUMS, CONES, BARRICADES AND VERTICAL PANELS |



END SECTIONCURB AND GUTTER

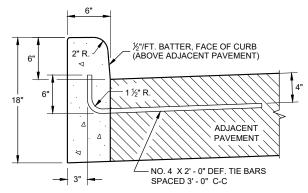
DETAIL OF CURB AND GUTTER AT INLETS

DEPRESS BELOW NORMAL - FLOWLINE TO MATCH GRATE ELEVATION

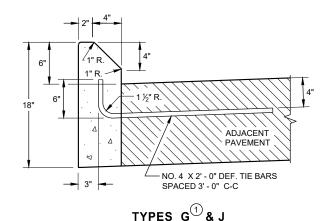
GRATE ELEVATION AS SHOWN ON STORM SEVER DETAILS

CURB AND GUTTER

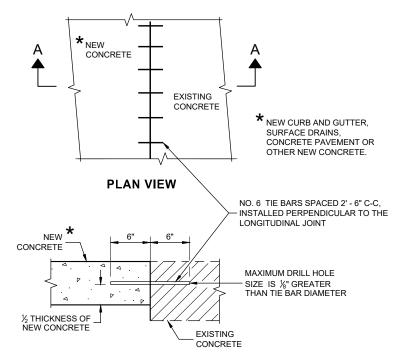
(TYPICAL H INLET COVER SHOWN)



TYPES A D



CONCRETE CURB



SECTION A - A

TIE BARS DRILLED INTO EXISTING PAVEMENT

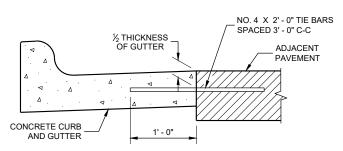
GENERAL NOTES

DETAILS OF CONSTRUCTION AND WORKMANSHIP NOT SHOWN ON THIS DRAWING SHALL CONFORM TO THE PERTINENT REQUIREMENTS OF THE CONTRACT.

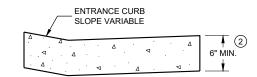
PAVEMENT TIES AND TIE BARS SHALL BE EPOXY COATED IN CONFORMANCE WITH SUBSECTION 505.2.6.2 OF THE STANDARD SPECIFICATIONS.

UNLESS OTHERWISE SHOWN ON THE TYPICAL CROSS SECTIONS, THE BASE AGGREGATE AND COMMON EXCAVATION LIMITS ARE 2'- 0" BEHIND THE BACK OF CURBS.

- 1) TIE BARS ARE REQUIRED FOR CURB AND GUTTERS TYPES A, G, K, R, AND TBTT.
- (2) THE BOTTOM OF CURB AND GUTTER MAY BE CONSTRUCTED EITHER LEVEL OR PARALLEL TO THE SLOPE OF THE SUBGRADE OR BASE AGGREGATE PROVIDED A 6" MINIMUM GUTTER THICKNESS IS MAINTAINED.
- 9 REFER TO SDD 08D18 AND 08D19 FOR ADDITIONAL DRIVEWAY ENTRANCE CURB DETAILS.



TYPICAL TIE BAR LOCATION $^{\scriptsize{\scriptsize{\scriptsize{\scriptsize{\scriptsize{1}}}}}}$



DRIVEWAY ENTRANCE CURB (WHEN DIRECTED BY THE ENGINEER)

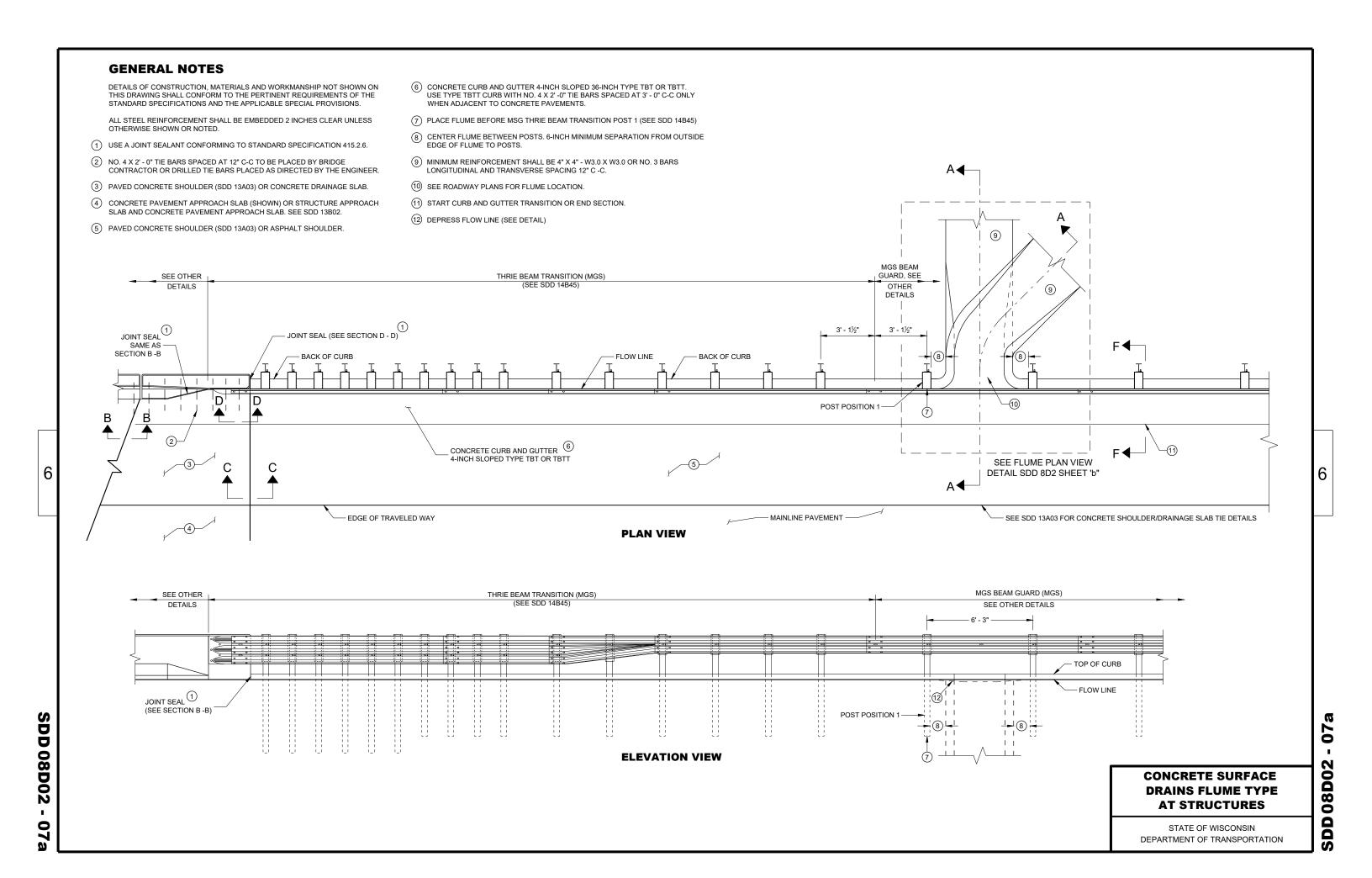
CONCRETE CURB, TIES AND CURB AND GUTTER APPLICATIONS

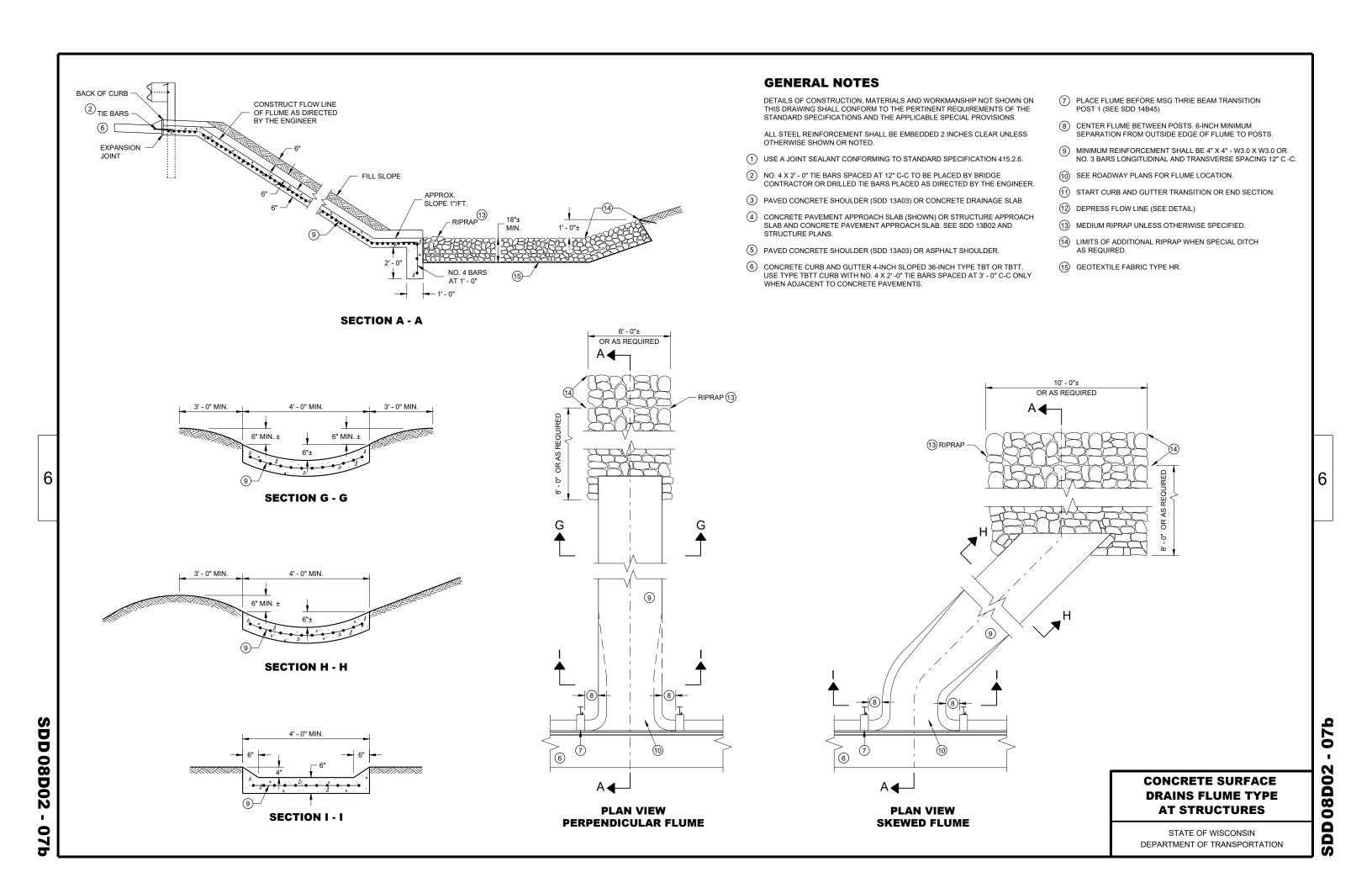
STATE OF WISCONSIN
DEPARTMENT OF TRANSPORTATION

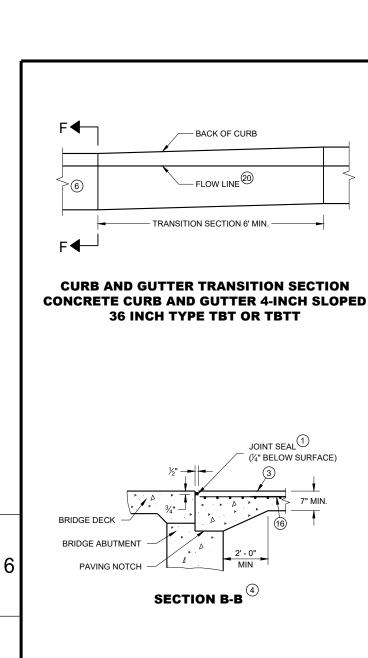
 APPROVED
 /S/ Rodnery Taylor

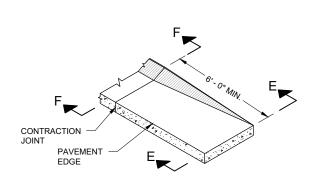
 DATE
 ROADWAY STANDARDS DEVELOPMENT ENGINEER

SDD 08D01 - 22

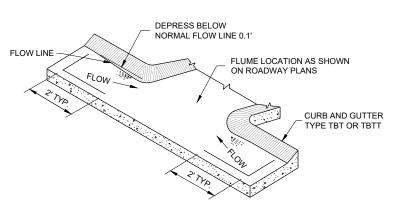




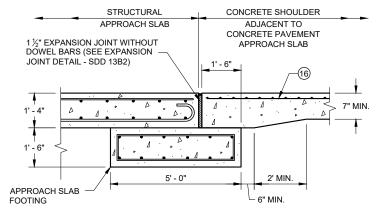




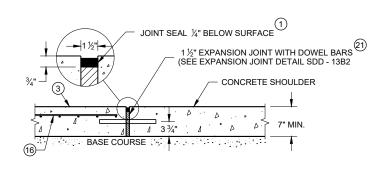
CURB AND GUTTER END SECTION CONCRETE CURB AND GUTTER 4-INCH SLOPED 36 INCH TYPE TBT OR TBTT



CURB AND GUTTER FLOW LINE DEPRESSION AT FLUMES CONCRETE CURB AND GUTTER 4-INCH SLOPED 36 INCH TYPE TBT OR TBTT



SECTION C - C JOINT DETAIL FOR BRIDGE WITH STRUCTURAL APPROACH SLAB AND CONCRETE APPROACH SLAB



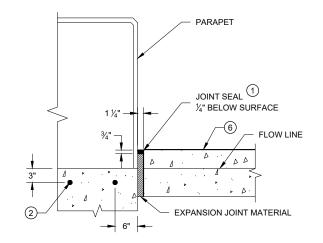
SECTION C - C JOINT DETAIL FOR BRIDGE APPROACH WITH CONCRETE SHOULDERS

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.

ALL STEEL REINFORCEMENT SHALL BE EMBEDDED 2 INCHES CLEAR UNLESS

- (1) USE A JOINT SEALANT CONFORMING TO STANDARD SPECIFICATION 415.2.6.
- (2) NO. 4 X 2' 0" TIE BARS SPACED AT 12" C-C TO BE PLACED BY BRIDGE CONTRACTOR OR DRILLED TIE BARS PLACED AS DIRECTED BY THE ENGINEER.
- (3) PAVED CONCRETE SHOULDER (SDD 13A03) OR CONCRETE DRAINAGE SLAB.
- (4) CONCRETE PAVEMENT APPROACH SLAB (SHOWN) OR STRUCTURE APPROACH SLAB AND CONCRETE PAVEMENT APPROACH SLAB. SEE SDD 13B02 AND STRUCTURE PLANS.
- (5) PAVED CONCRETE SHOULDER (SDD 13A03) OR ASPHALT SHOULDER.
- (6) CONCRETE CURB AND GUTTER 4-INCH SLOPED 36-INCH TYPE TBT OR TBTT. USE TYPE TBTT CURB WITH NO. 4 X 2'-0" TIE BARS SPACED AT 3'-0" C-C ONLY WHEN ADJACENT TO CONCRETE PAVEMENTS.
- 7 PLACE FLUME BEFORE MSG THRIE BEAM TRANSITION POST 1 (SEE SDD 14B45)
- 8 CENTER FLUME BETWEEN POSTS. 6-INCH MINIMUM SEPARATION FROM OUTSIDE EDGE OF FLUME TO POSTS.
- 9 MINIMUM REINFORCEMENT SHALL BE 4" X 4" W3.0 X W3.0 OR NO. 3 BARS LONGITUDINAL AND TRANSVERSE SPACING 12" C -C.
- (10) SEE ROADWAY PLANS FOR FLUME LOCATION.
- (11) START CURB AND GUTTER TRANSITION OR END SECTION.
- (12) DEPRESS FLOW LINE (SEE DETAIL)
- (13) MEDIUM RIPRAP UNLESS OTHERWISE SPECIFIED.
- (14) LIMITS OF ADDITIONAL RIPRAP WHEN SPECIAL DITCH IS REQUIRED.
- (15) GEOTEXTILE FABRIC TYPE HR.
- (16) MINIMUM REINFORCEMENT SHALL BE 6" X 6" W4.0 X W4.0 OR NO. 3 BARS LONGITUDINAL AND TRANSVERSE SPACING 12" C - C.
- (7) MSG THRIE BEAM TRANSITION POST 1. SEE SDD 14B45 FOR ADDITIONAL CONSTRUCTION DETAILS AND ACCEPTABLE MATERIALS.
- (18) MAINTAIN WIDTH, THICKNESS AND CROSS SLOPE OF ADJACENT TYPE TBT OR TBTT CURB. SEE NOTE 6 FOR TIE BAR SPACING.
- (19) ALIGN FACE OF POST BLOCK WITH FLOW LINE.
- 20 MAINTAIN FLOW LINE AT EDGE OF PAVEMENT/FACE OF BEAM GUARD AS APPLICABLE.
- (21) DO NOT CONSTRUCT AN EXPANSION JOINT OR INSTALL DOWEL BARS WHEN ABUTTING HMA PAVEMENTS.



SECTION D - D

FINISHED SHOULDER 6" MIN

SECTION E - E

2' - 0" MIN. —

6" MIN

FINISHED

SHOULDER

SECTION F - F

2' - 0" MIN. —

CONCRETE SURFACE DRAINS FLUME TYPE AT STRUCTURES

STATE OF WISCONSIN DEPARTMENT OF TRANSPORTATION

APPROVED February 2020 DATE

/S/ Rodney Taylor

ROADWAY STANDARDS DEVELOPMENT

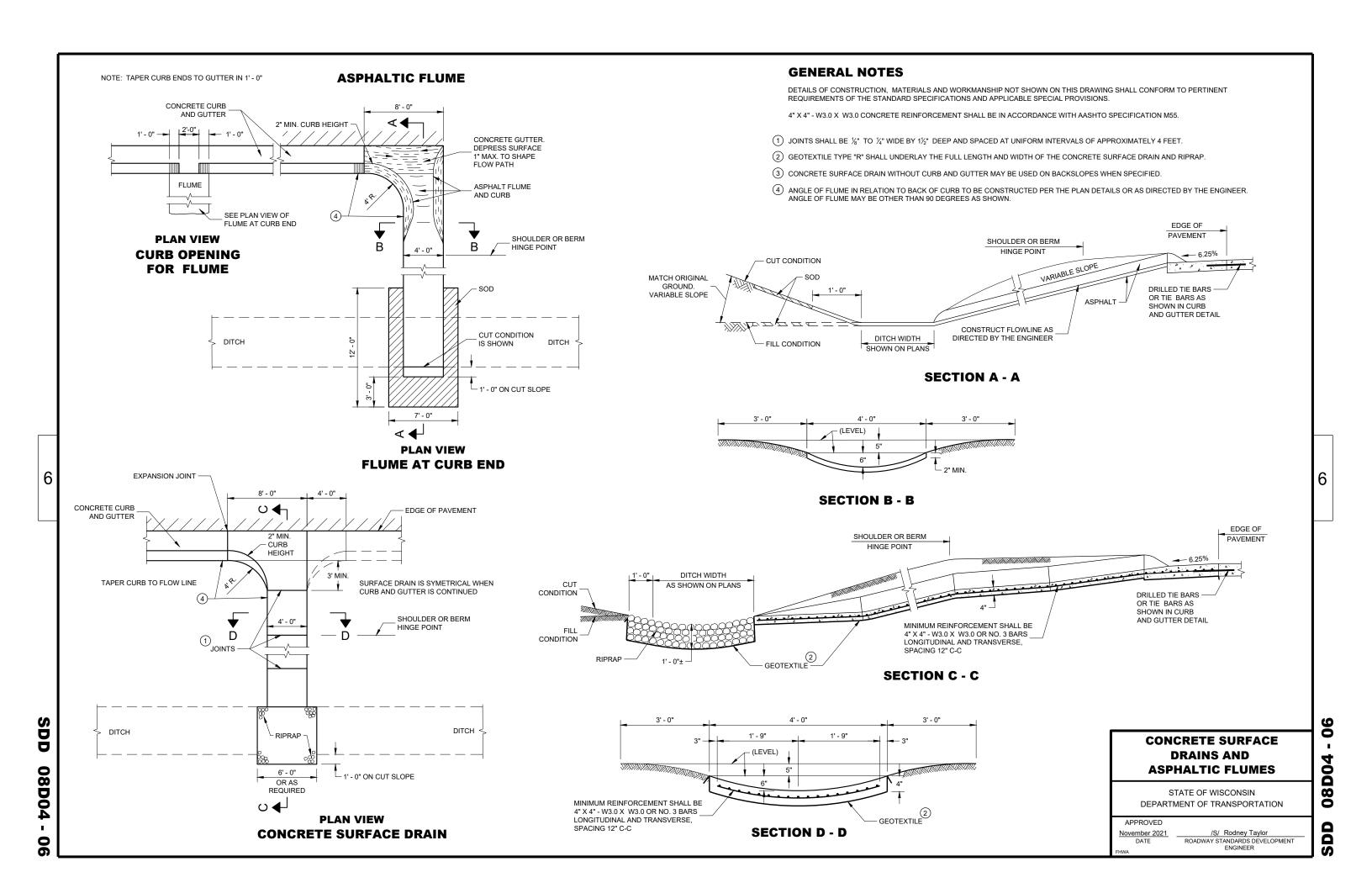
ENGINEER

SDD 08D02 0

0

0

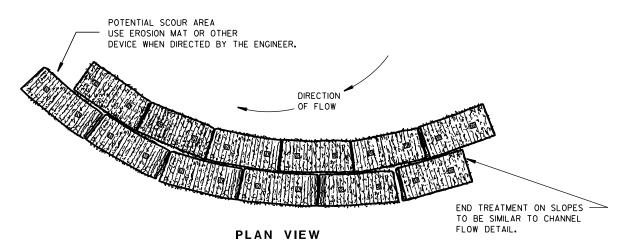
80



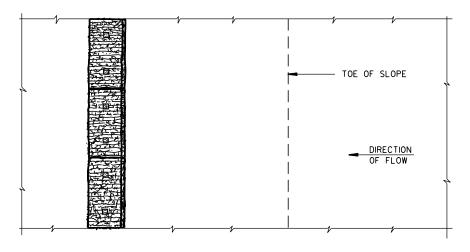
GENERAL NOTES

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.

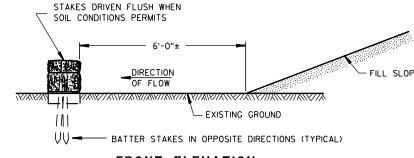
TEMPORARY DITCH CHECKS EITHER EROSION BALES OR MANUFACTURED SHALL BE PAID FOR UNDER THE BID ITEM OF TEMPORARY DITCH CHECK. THE DEPARTMENT WILL NOT PAY FOR TEMPORARY DITCH CHECKS CONSTRUCTED OF A SINGLE ROW OF EROSION BALES.



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

STATE OF WISCONSIN DEPARTMENT OF TRANSPORTATION

APPROVED

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

6

Ō Ö

6

 ∞ Ω Δ

 ∞

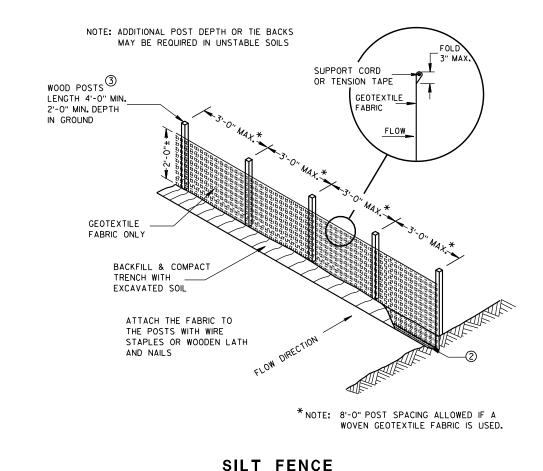
TYPICAL APPLICATION OF SILT FENCE

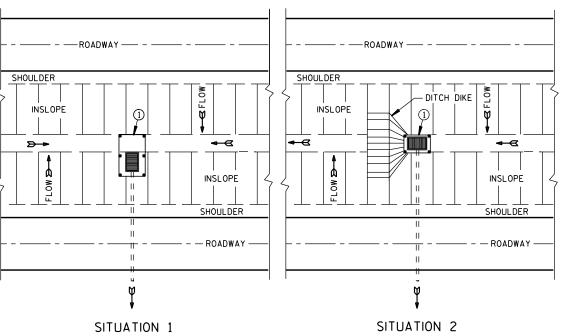
6

b

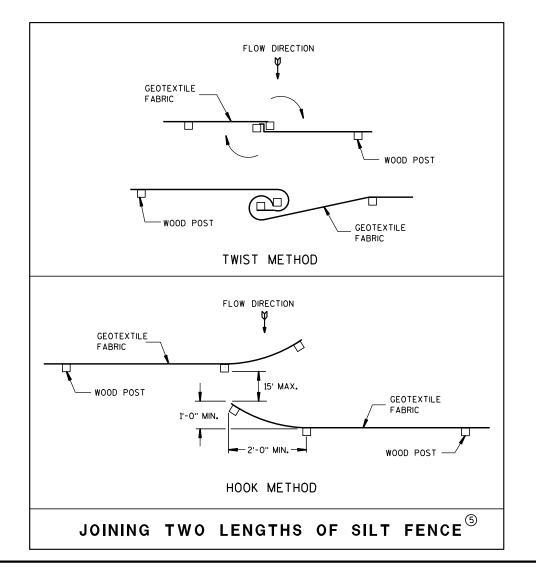
Ō

Ш





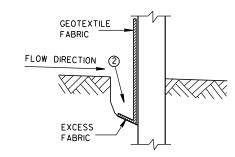
PLAN VIEW SILT FENCE AT MEDIAN SURFACE DRAINS



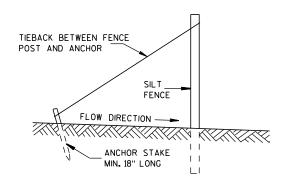
GENERAL NOTES

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.

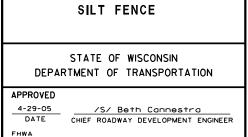


TRENCH DETAIL



SILT FENCE TIE BACK

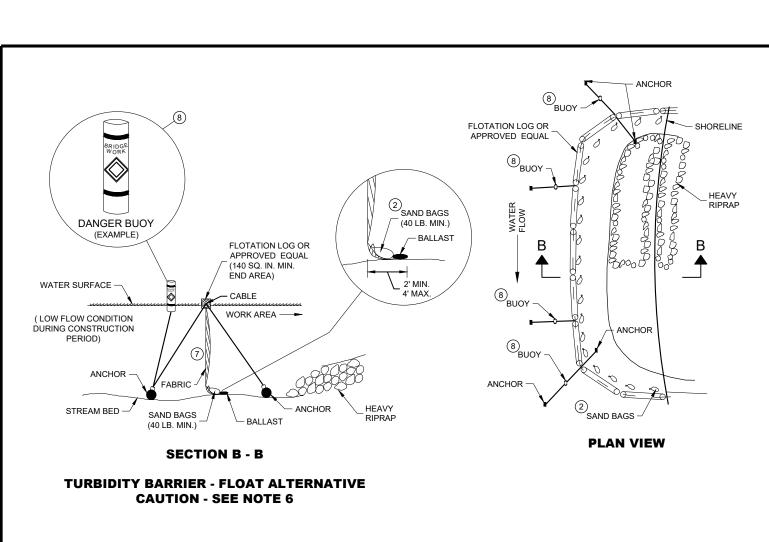
(WHEN REQUIRED BY THE ENGINEER)

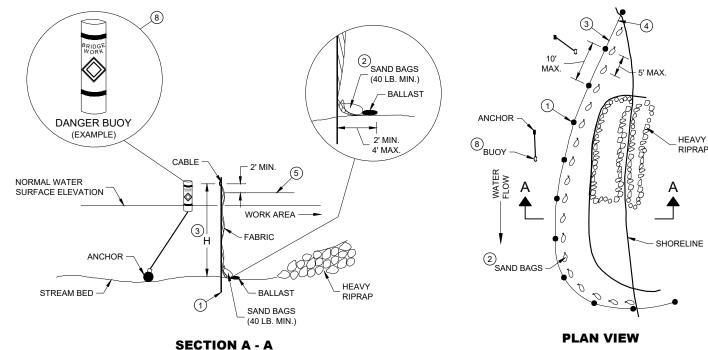


6

ထ

D.D. 8 E 9-6





TURBIDITY BARRIER - STANDARD POST INSTALLATION

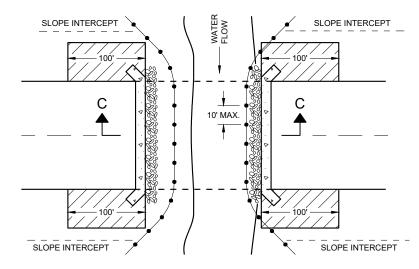
TURBIDITY BARRIER PLACEMENT DETAILS

GENERAL NOTES

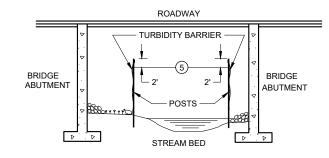
DETAILS OF CONSTRUCTION, MATERIALS AND WORKMANSHIP NOT SHOWN ON THIS DRAWING SHALL CONFORM TO THE PERTINENT REQUIREMENTS OF THE STANDARD SPECIFICATIONS AND THE APPLICABLE SPECIAL PROVISIONS.

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) SAND BAGS 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 FEET, 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. MINIMUM BARRIER HEIGHT SHALL BE 2' GREATER THAN EITHER THE Q2 ELEVATION OR THE ESTIMATED HIGH WATER ELEVATION DURING CONSTRUCTION, WHICHEVER IS GREATER.
- (6) FLOAT ALTERNATIVE WILL ONLY BE ALLOWED WITH WRITTEN APPROVAL OF THE ENGINEER, AND IS MEANT FOR LOCATIONS WHERE BEDROCK 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.



PLAN VIEW



SECTION C - C

TURBIDITY BARRIER DETAIL SHOWING TYPICAL PLACEMENT AT STRUCTURES

TURBIDITY BARRIER STATE OF WISCONSIN

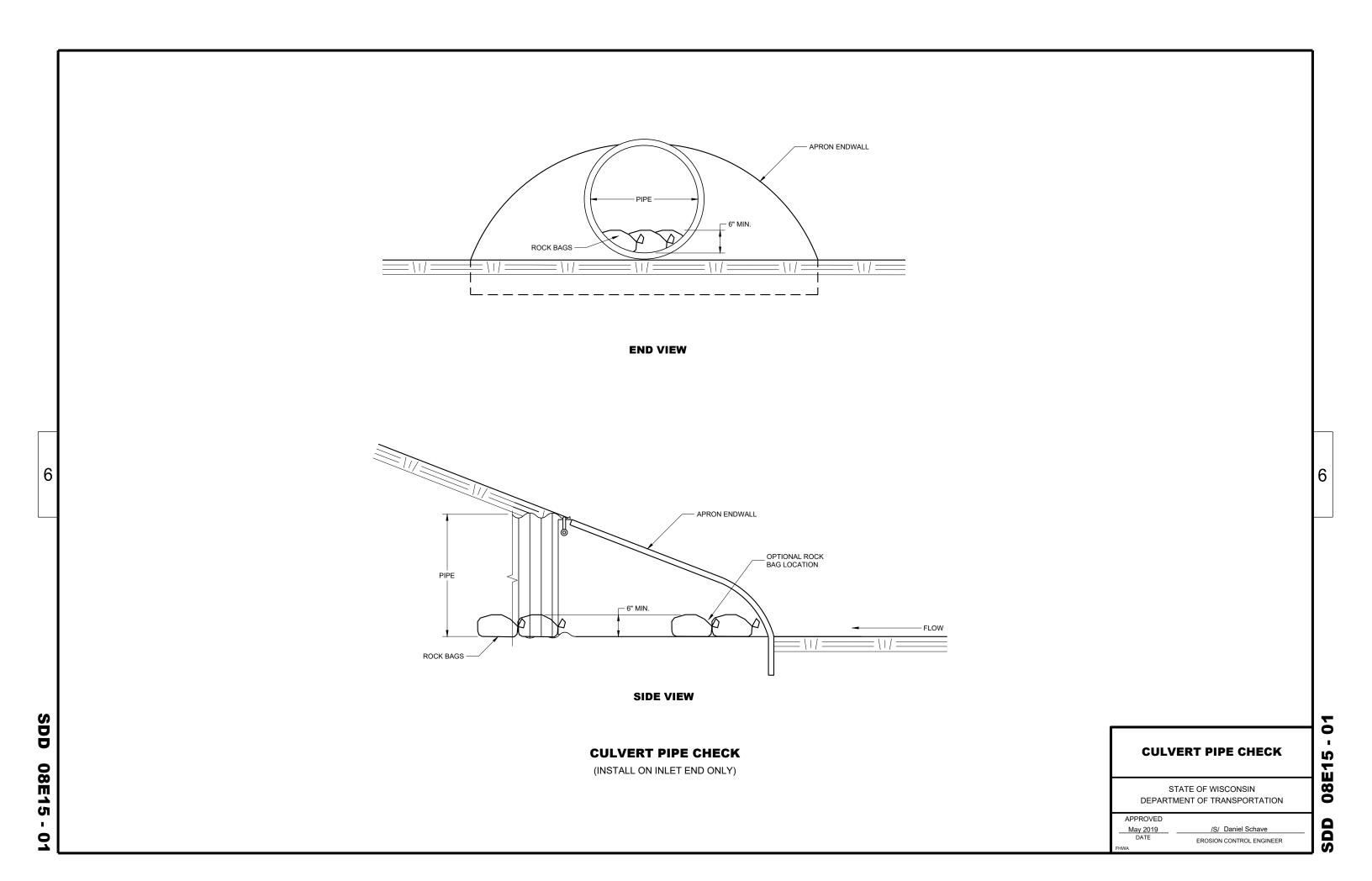
DEPARTMENT OF TRANSPORTATION

 ∞

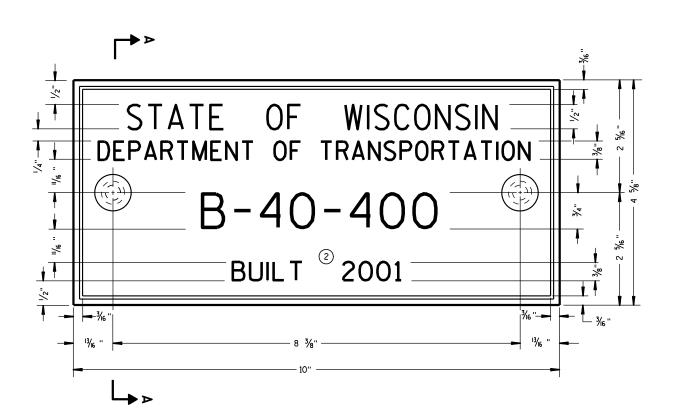
6/4/02 /S/ Beth Cannestra

DATE CHIEF ROADWAY DEVELOPMENT
ENGINEER

APPROVED

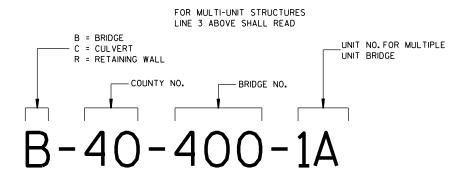






TYPICAL NAME PLATE

(BRIDGES, CULVERTS, AND RETAINING WALLS)



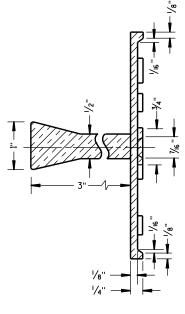
NUMBERING DESIGNATION MULTI-UNIT STRUCTURES

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.

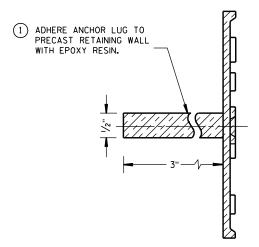
- 1 EPOXY RESIN SHALL BE FROM AN APPROVED MANUFACTURER AND USED IN ACCORDANCE WITH MANUFACTURER'S RECOMMENDATIONS.
- REHABILITATION OF AN EXISTING STRUCTURE SHOULD USE THE DATE OF ORIGINAL STRUCTURE CONSTRUCTION.



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

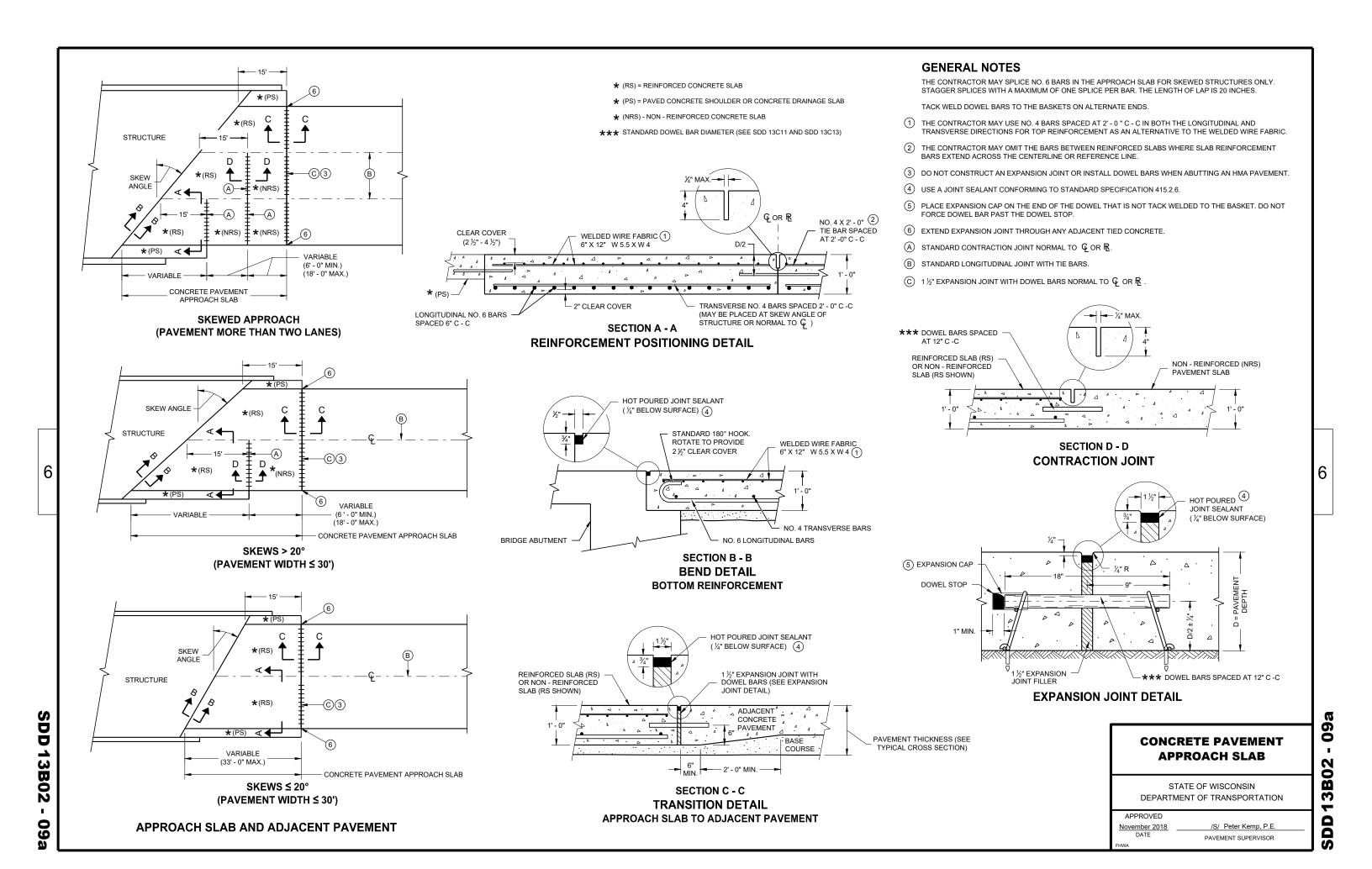
APPROVED

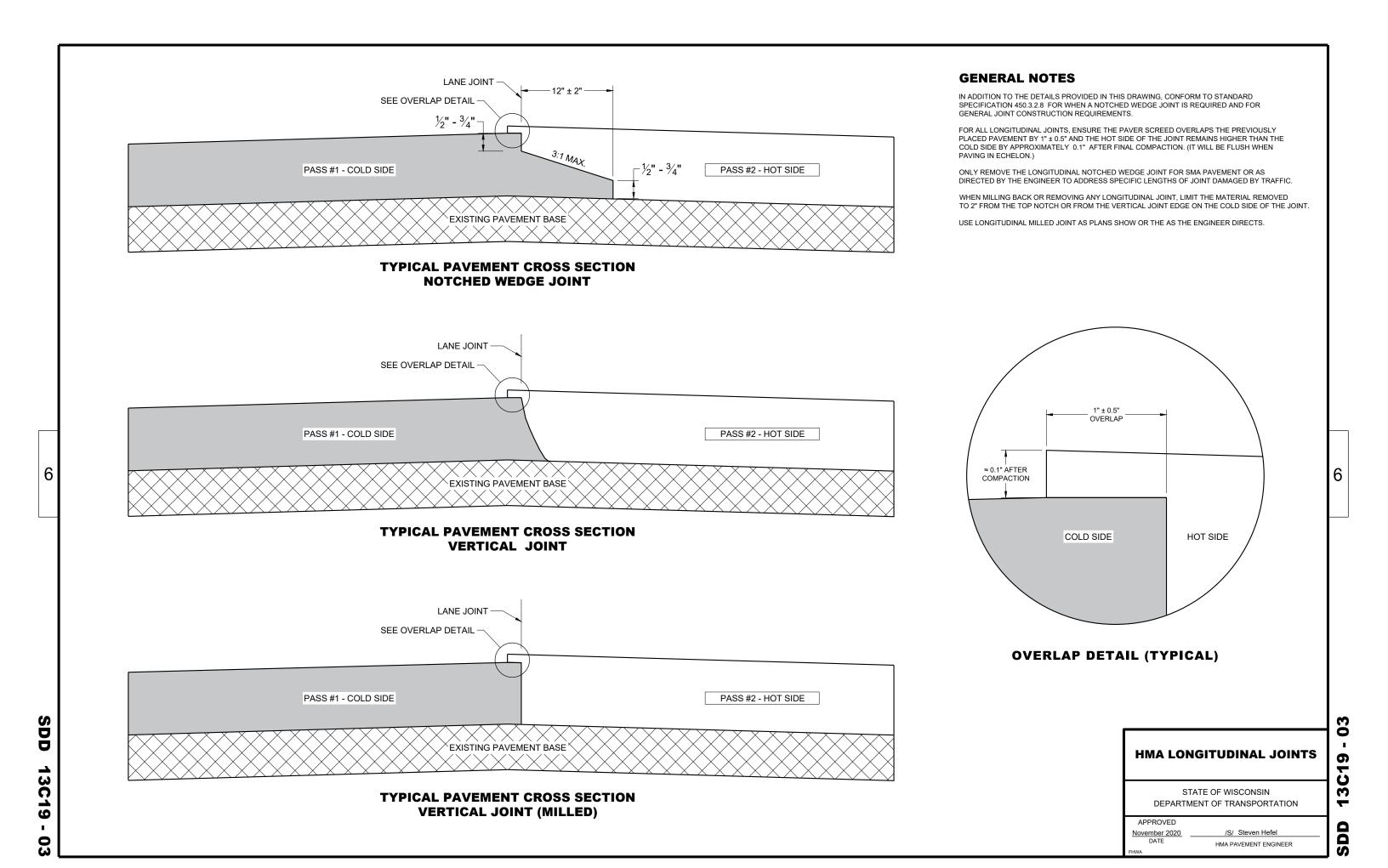
3/26/IO /S/ Scot Becker

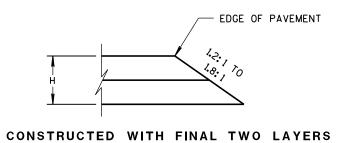
DATE CHIEF STRUCTURAL DEVELOPMENT ENGINEER

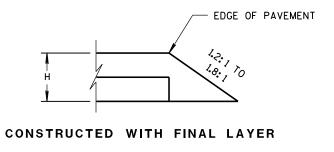
.D.D. 12 A

3-10



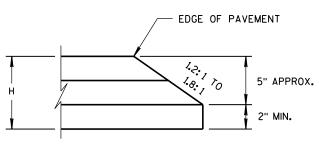




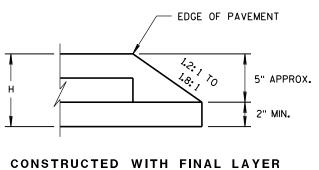


FOR H 5" OR LESS

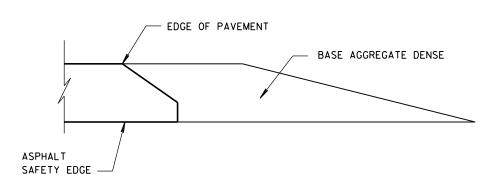
FOR H 5" OR LESS







FOR H GREATER THAN 5"



HMA PAVEMENT AND HMA OVERLAYS

FINISHED SHOULDER AGGREGATE PLACEMENT

SAFETY EDGE SM

STATE OF WISCONSIN
DEPARTMENT OF TRANSPORTATION

6

 $\mathbf{\omega}$

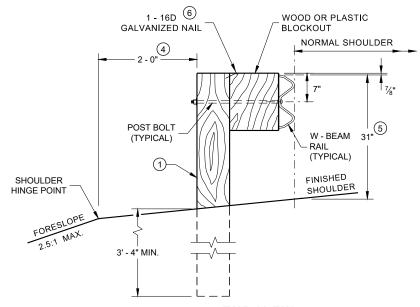
Ω

Ω

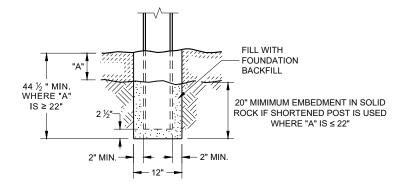
APPROVED

DATE ROADWAY STANDARDS DEVELOPMENT ENGINEER

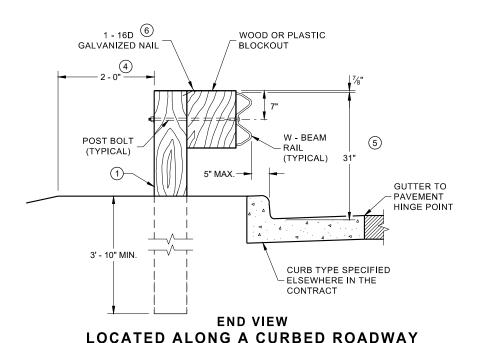
- ② USE WOOD OR APPROVED PLASTIC BLOCKOUTS. WOOD BLOCKOUTS MAY BE CONSTRUCTED OUT OF TWO OR MORE WOOD BLOCKOUTS. SEE ALTERNATE WOOD BLOCKOUT DETAIL. DIMENSIONS OF APPROVED PLASTIC BLOCKOUTS MAY VARY.
- (3) IF ROCK IS ENCOUNTERED DURING EXCAVATION, PROVIDE A HOLE 12 INCHES IN DIAMETER EXTENDING 20 INCHES DEEP INTO THE ROCK. PLACE APPROXIMATELY 2 1/2" INCHES OF GRANULAR MATERIAL IN THE BOTTOM OF THE HOLE. CUT THE POSTS THE TO LENGTH AMD INSTALL. BACKFILL WITH EXCAVATED MATERIAL AND COMPACT. BACKFILL IS TO BE FREE OF LARGE ROCKS.
- 4 WHEN THE DISTANCE FROM BACK OF POST TO SHOULDER HINGE POINT IS LESS THAN 2 FEET INSTALL LONGER POST AT HALF POST SPACING (K).
- $\fill \begin{tabular}{ll} \end{tabular}$ FOR NEW MGS INSTALLATION TOP OF W-BEAM RAIL TOLERANCE IS \$\pm1"\$. FOR EXISTING MGS INSTALLATION TOP OF W-BEAM IS BETWEEN 27 % " TO 32".
- (6) WHEN USING STEEL POST AND WOOD BLOCKOUTS INSTALL FOUR 16D GALVANIZED NAILS. INSTALL NAILS AT THE BACK CORNERS OF THE BLOCK AND BEND THE NAILS OVER THE FLANGE OF THE STEEL POST.
- \bigcirc TOTAL POST LENGTH FOR TYPE K IS 7' 0". TOTAL POST LENGTH FOR OTHER MGS TYPES IS 6' 0".



END VIEW
LOCATED ALONG A ROADWAY SHOULDER
STANDARD INSTALLATION



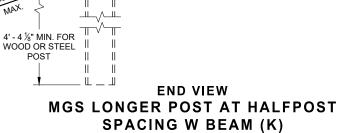
SETTING STEEL OR WOOD POST IN ROCK

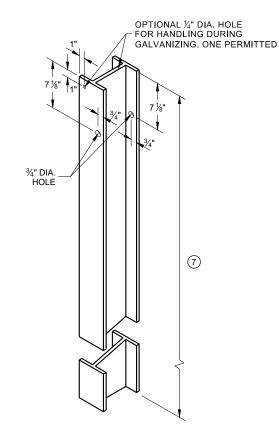


POST BOLT
(TYPICAL)

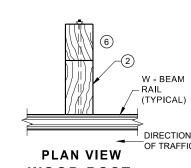
W - BEAM
RAIL
(TYPICAL)

PLASTIC
BLOCKOUT

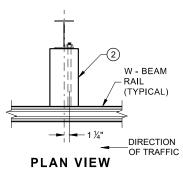




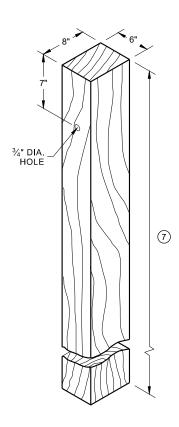
STEEL POST & HOLE PUNCHING DETAIL (W 6 X 9) ^①



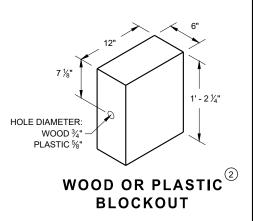
WOOD POST,
BLOCKOUT & BEAM



PLAN VIEW
STEEL POST,
PLASTIC BLOCKOUT & BEAM



WOOD POST (6" X 8") NOMINAL



MIDWEST GUARDRAIL SYSTEM (MGS) GUARDRAIL

STATE OF WISCONSIN
DEPARTMENT OF TRANSPORTATION

SD

FRONT VIEW HALF POST SPACING (HS) AND HALF POST SPACING WITH LONGER POSTS (K)

3' 1½" C -C 3' 1½" C - C POST SPACING POST SPACING

6' 3" C - C

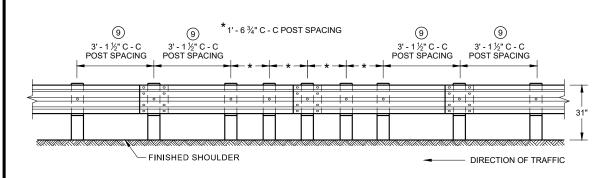
POST SPACING

DIRECTION OF TRAFFIC

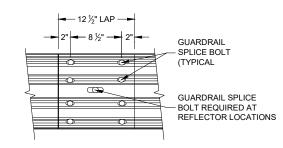
6' - 3" C -C

POST SPACING

FINISHED SHOULDER



FRONT VIEW
QUARTER POST SPACING (QS)



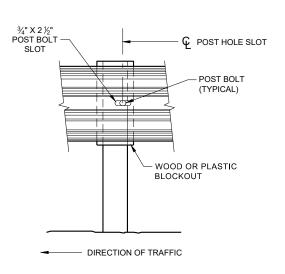
FRONT VIEW
MID-SPAN BEAM SPLICE

GENERAL NOTES

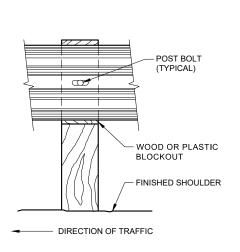
- 8 DO NOT INSTALL REFLECTORS ON THE FIRST 50 FEET OF THE APPROACH END OF THE ENERGY ABSORBING TERMINAL.
- 25 FEET OF HALF POST SPACING IS REQUIRED ON APPROACH AND DEPARTURE ENDS OF QUARTER POST SPACING.

POST BOLTS ARE A %" DIAMETER ASTM A307 GUARDRAIL BOLT. A POST BOLT REQUIRES %" DIAMETER A563A DOUBLE RECESSED (DR) HEAVY HEX NUT AND %" DIAMETER F844 FLAT WASHER. POST BOLTS MAY BE LONGER IF MULTIPLE BLOCKOUTS ARE BEING USED.

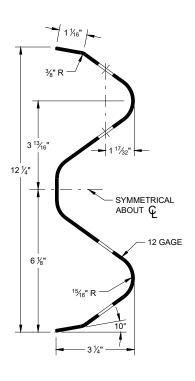
GUARD RAIL SPLICE BOLTS ARE A %" DIAMETER ASTM A307 GUARDRAIL HEAD BOLT. A GUARDRAIL SPLICE BOLT REQUIRES %" DIAMETER A563A DOUBLE RECESSED (DR) HEAVY HEX NUT.



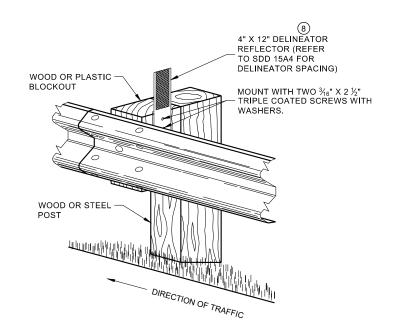
FRONT VIEW AT STEEL POST



FRONT VIEW AT WOOD POST



SECTION THRU W-BEAM RAIL



ONE SIDED REFLECTOR DETAIL
AND TYPICAL INSTALLATION

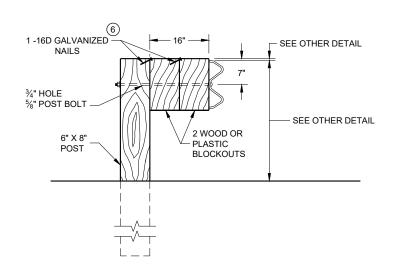
MIDWEST GUARDRAIL SYSTEM (MGS) GUARDRAIL

07b

SDD

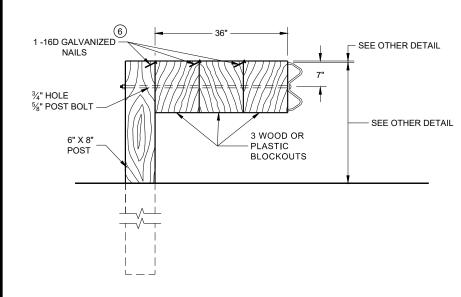
STATE OF WISCONSIN
DEPARTMENT OF TRANSPORTATION

6



DETAIL FOR 16" BLOCKOUT DEPTH

IT IS ACCEPTABLE TO USE BLOCKOUTS UP TO 16" DEEP TO INCREASE THE POST OFFSET TO AVOID UNDERGROUND OBSTACLES. THERE IS NO LIMIT TO THE NUMBER OF POSTS THAT CAN HAVE ADDITIONAL BLOCKOUTS UP TO 16" DEEP.



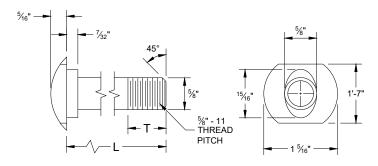
DETAIL FOR 36" BLOCKOUT DEPTH

NOTES: UNDER SPECIAL CIRCUMSTANCES, SUCH AS AVOIDING OBSTACLES THAT ARE NOT RELOCATED, IT IS ACCEPTABLE TO INSTALL ADDITIONAL BLOCKOUTS TO OBTAIN UP TO 36" DEPTH FOR ONE OR TWO POSTS IN A SECTION OF GUARDRAIL.

DO NOT USE 16" OR 36" BLOCKOUTS IF IT CAUSES THE POST TO BE DRIVEN BEYOND SHOULDER HINGE POINT OR CAUSES A FIXED OBJECT TO BE WITHIN THE DEFLECTION DISTANCE OF THE BARRIER.

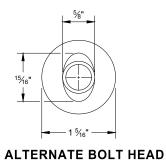
NOTE:

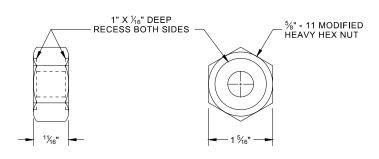
- 1. ALL FILLETS SHALL HAVE A MINIMUM RADIUS OF $\frac{3}{16}$ ".
- 2. IF THE BOLT EXTENDS MORE THAN $\mbox{\ensuremath{\mbox{\sc M}}}\mbox{\sc "}\mbox{\sc FROM THE NUT THE BOLT SHOULD BE TRIMMED BACK.}$



POST BOLT TABLE

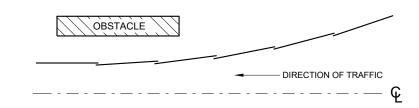
| L | T (MIN.) |
|--------|----------|
| 1 1/4" | 1 1/8" |
| 2" | 1 3/4" |
| 10" | 4" |
| 14" | 4 1/16" |
| 18" | 4" |
| 21" | 4 1/16" |
| 25" | 4" |



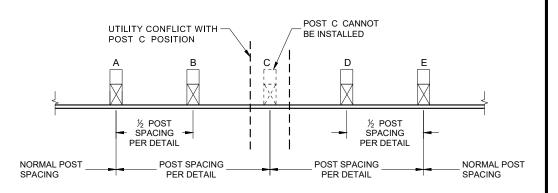


POST BOLT, SPLICE BOLT **AND RECESS NUT**

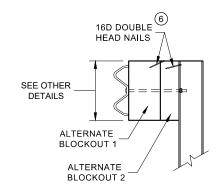
WHEN USING STEEL POST AD WOOD BLOCKOUTS, INSTALL FOUR 16D (6) GALVANIZED NAILS. INSTALL NAILS AT THE BACK CORNERS OF THE BLOCK AND BEND THE NAILS OVER THE FLANGE OF THE STEEL POST.

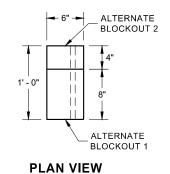


PLAN VIEW BEAM LAPPING DETAIL



POST DRIVING FOR CONTINUOUS UNDERGROUND OBSTRUCTION





SIDE VIEW

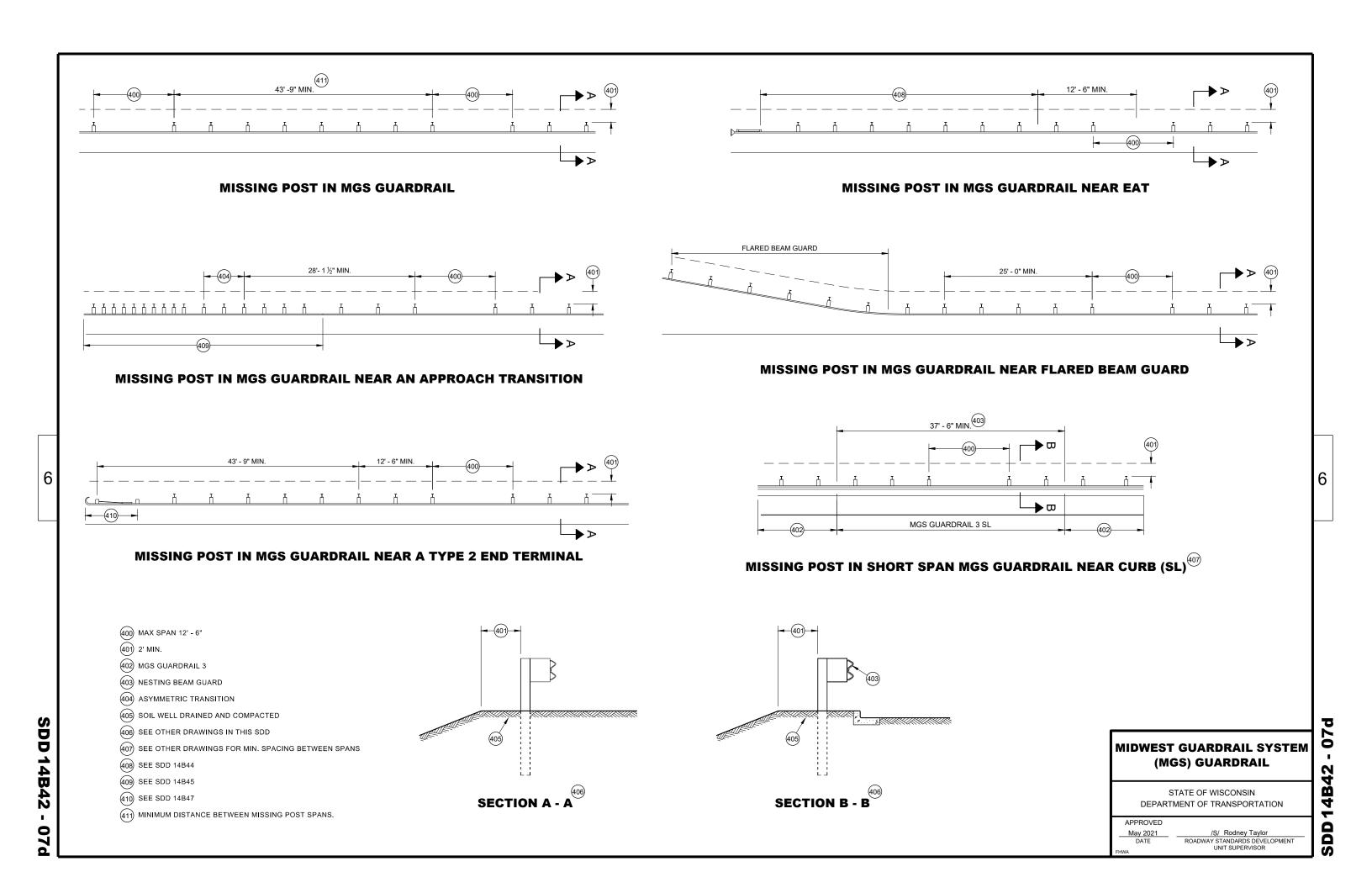
ALTERNATE WOOD BLOCKOUT DETAIL

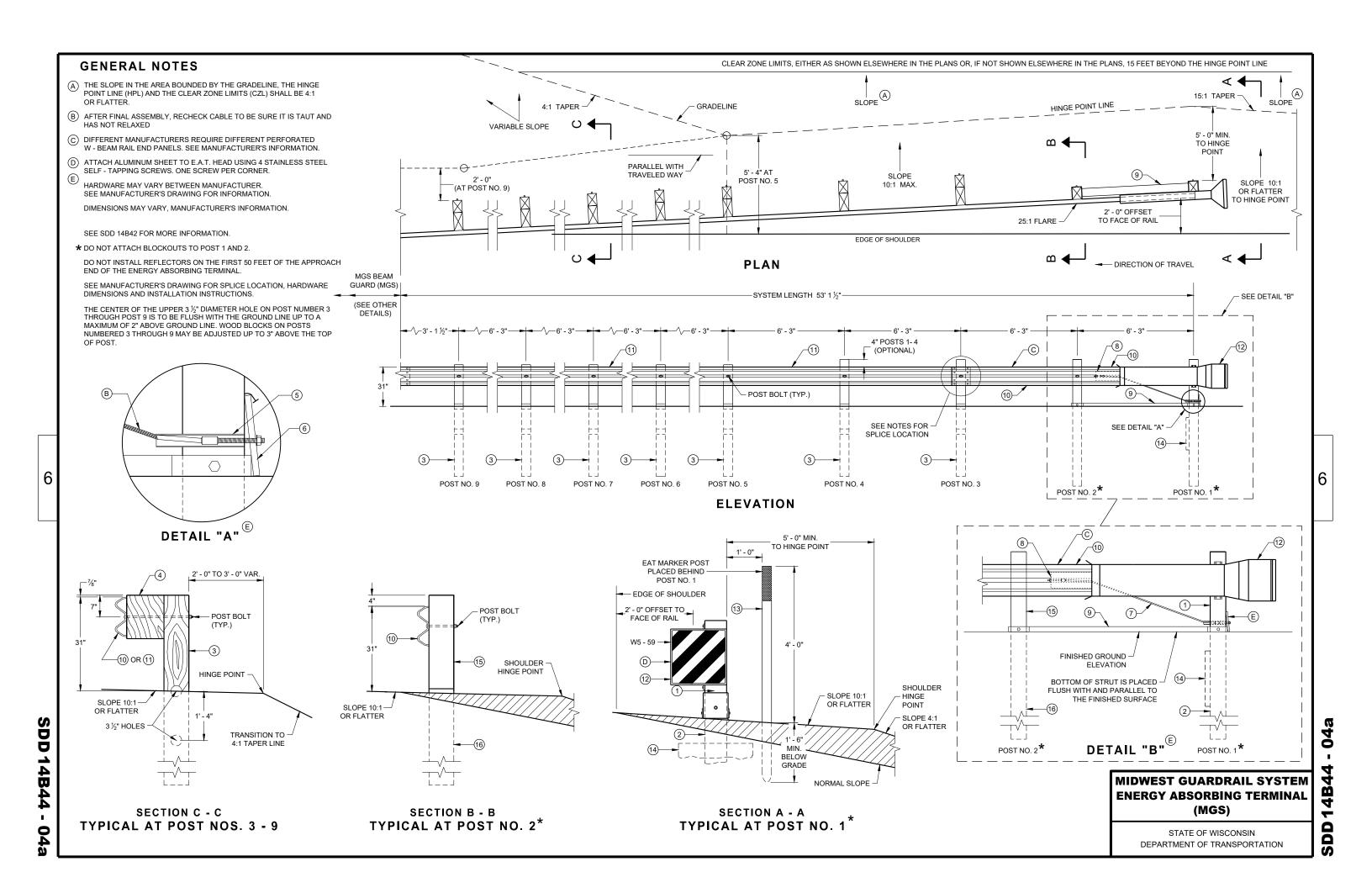
MIDWEST GUARDRAIL SYSTEM (MGS) GUARDRAIL

STATE OF WISCONSIN DEPARTMENT OF TRANSPORTATION

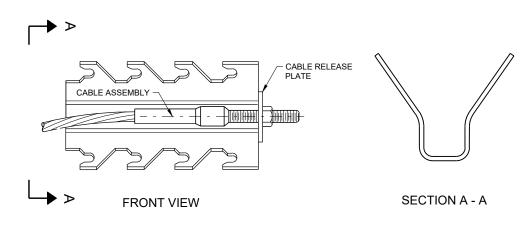
07

SD

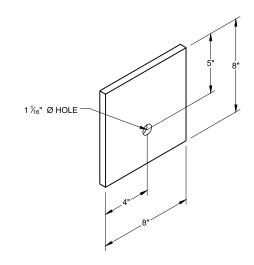




GENERIC GROUND STRUT



GENERIC ANCHOR CABLE BOX ^{(9) (E)}



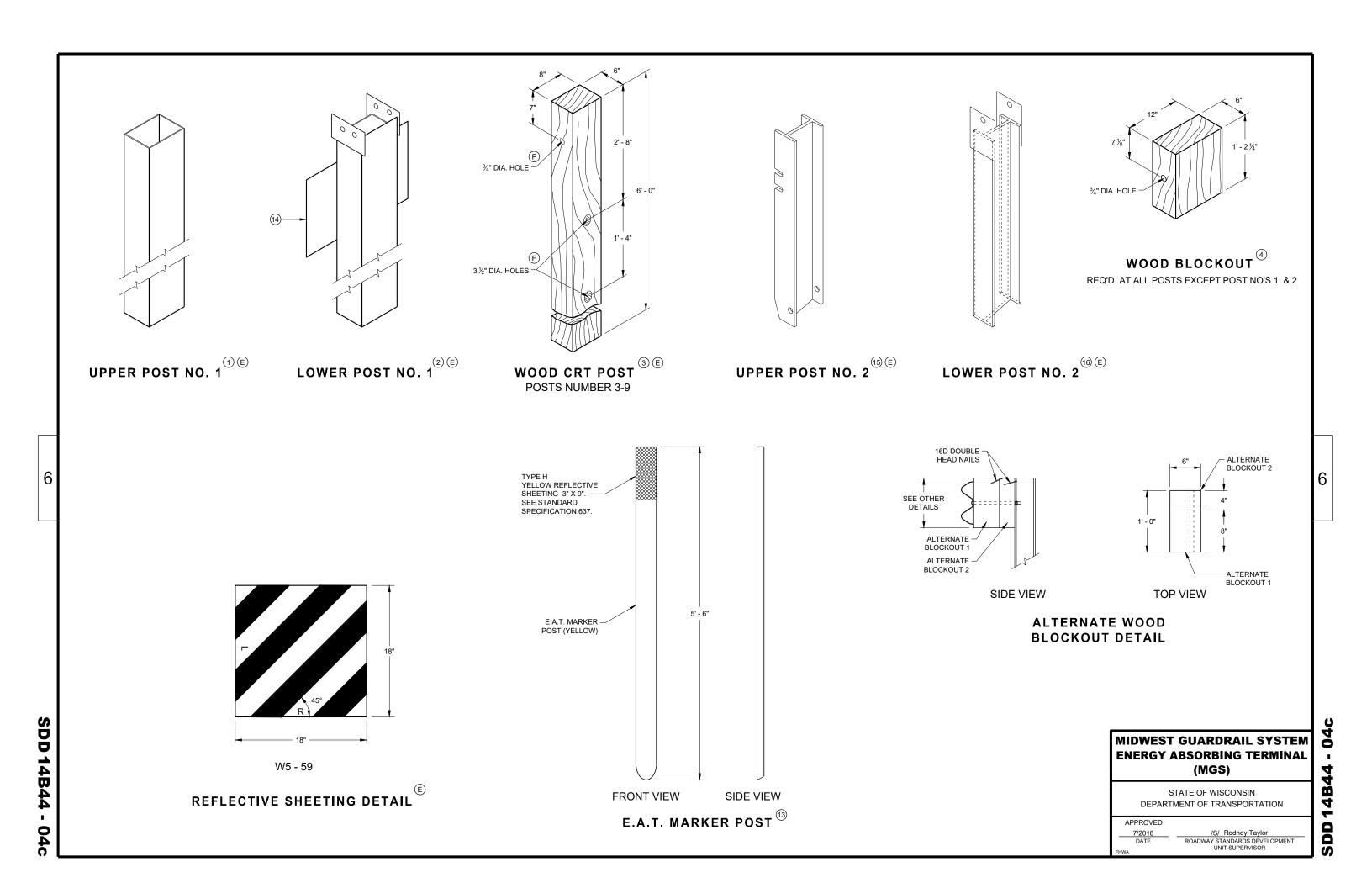
BEARING PLATE

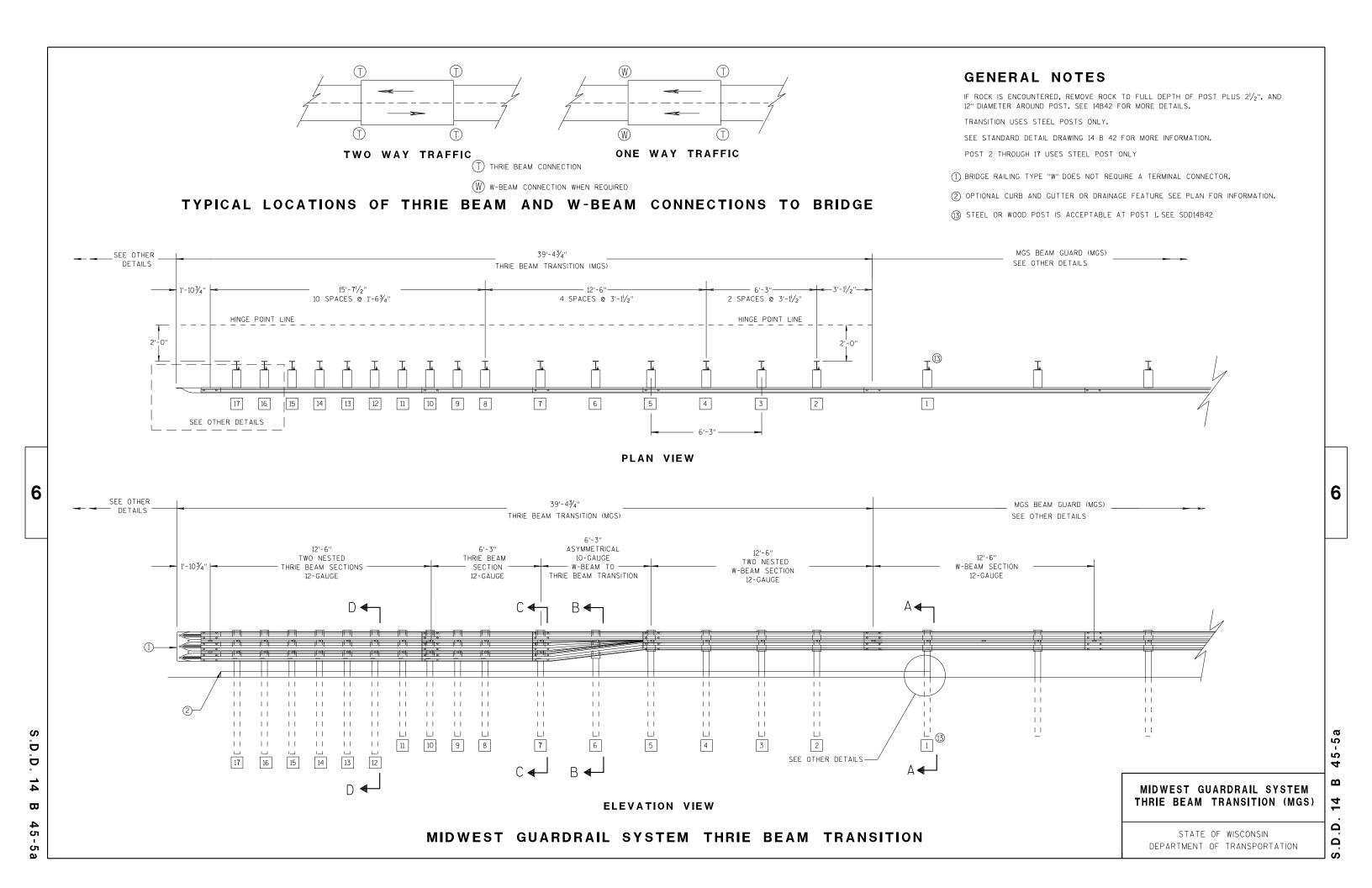
MIDWEST GUARDRAIL SYSTEM **ENERGY ABSORBING TERMINAL** (MGS)

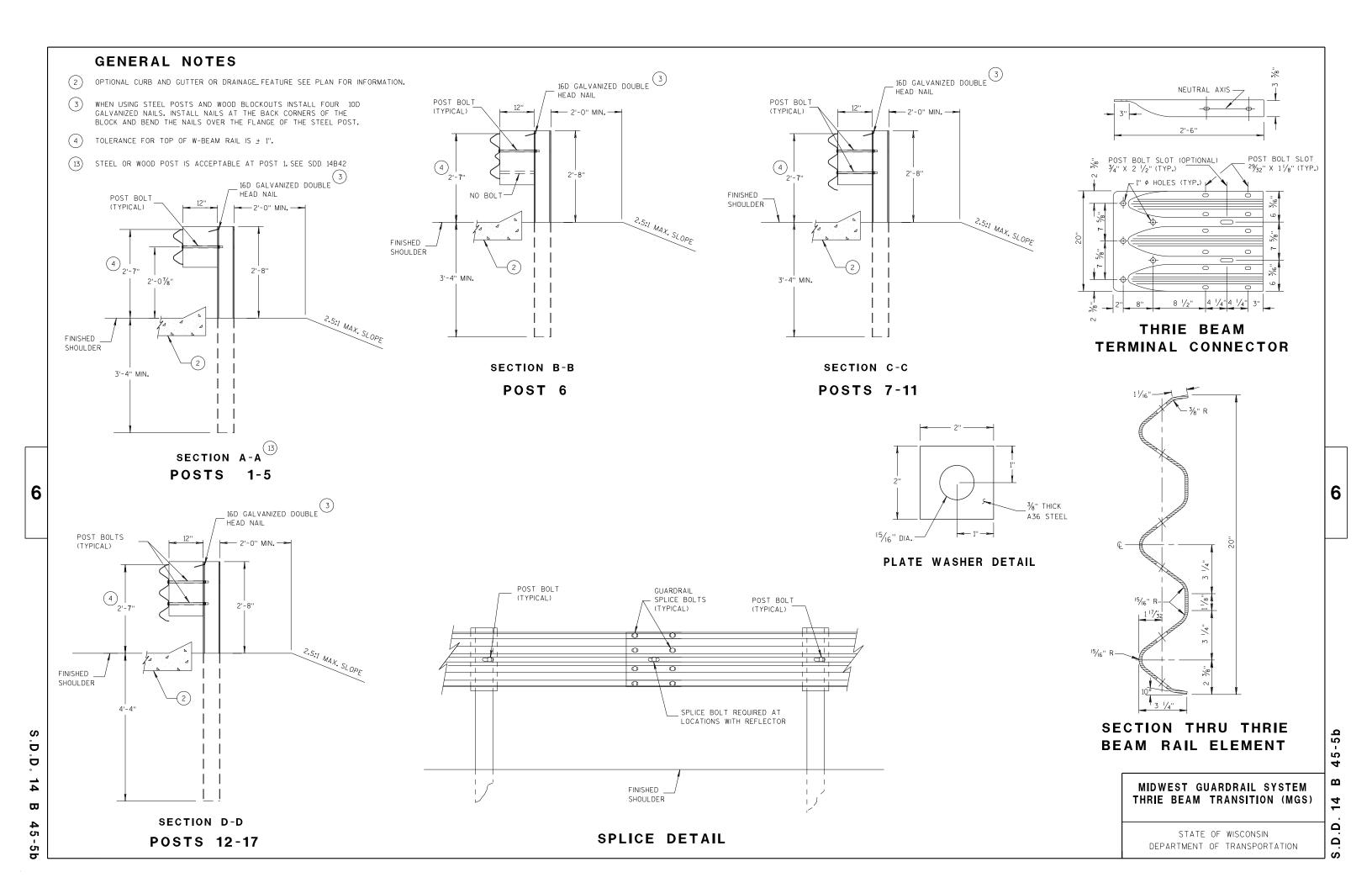
STATE OF WISCONSIN DEPARTMENT OF TRANSPORTATION

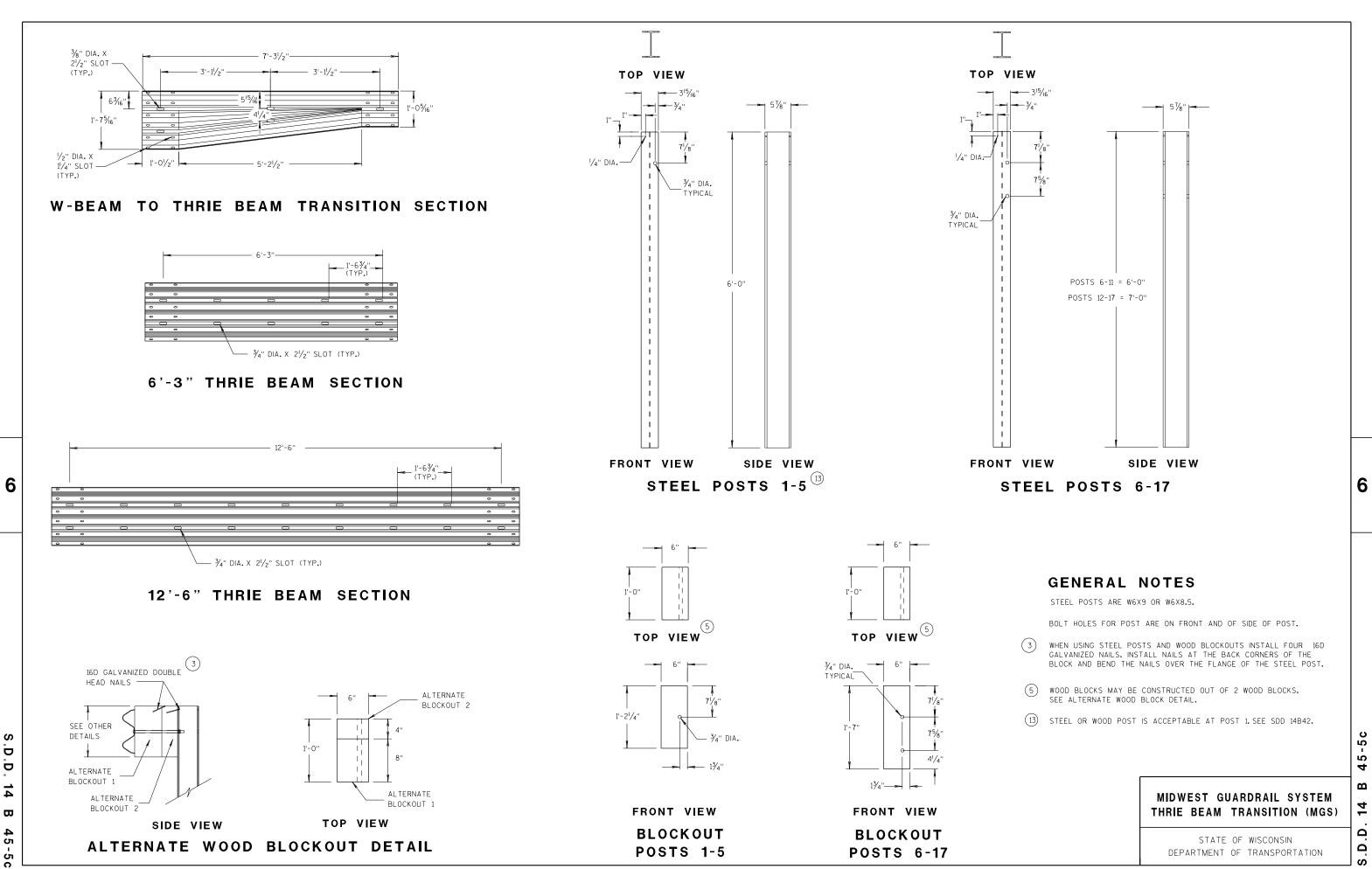
SDD 14B44

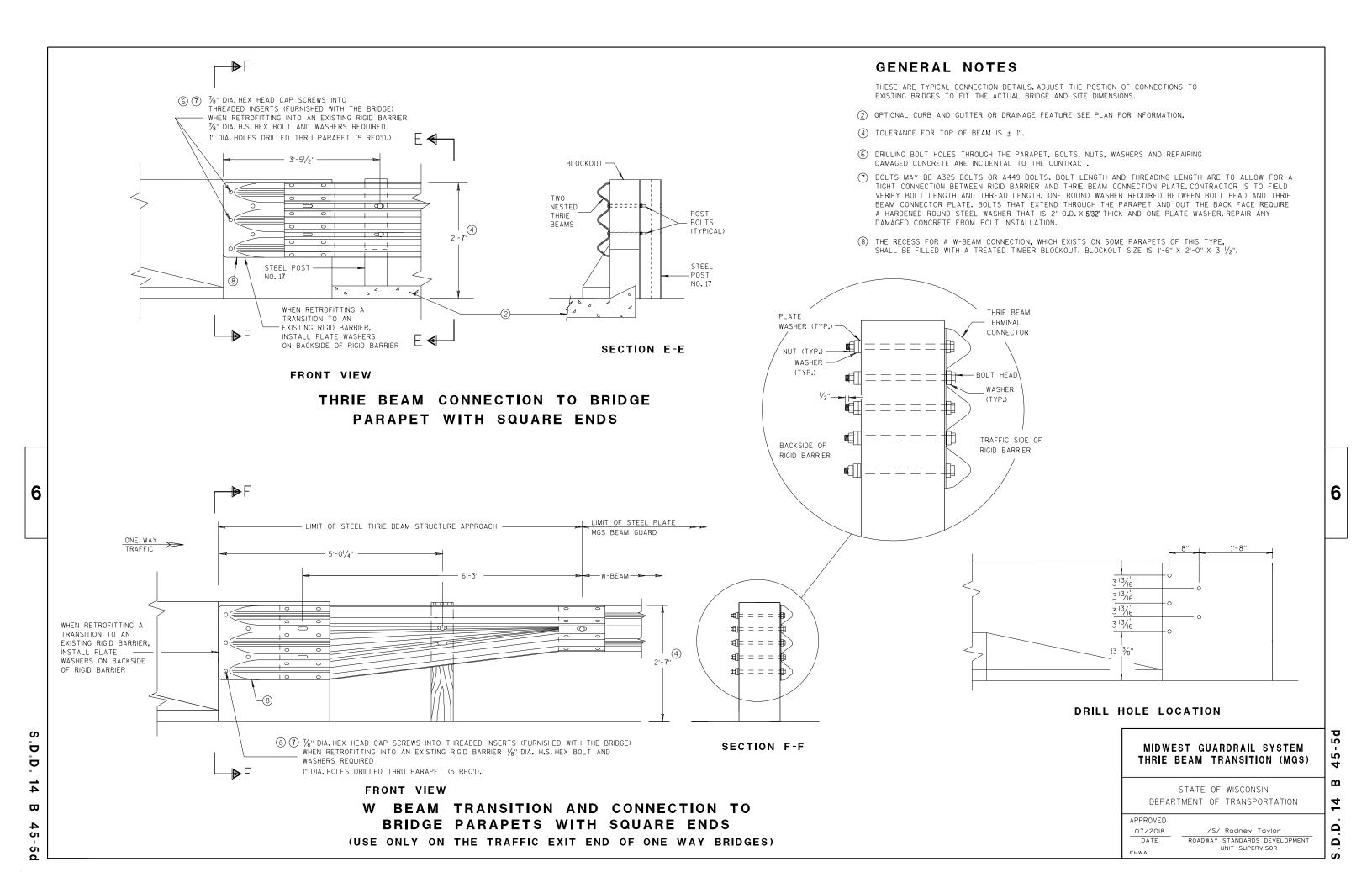
SDD



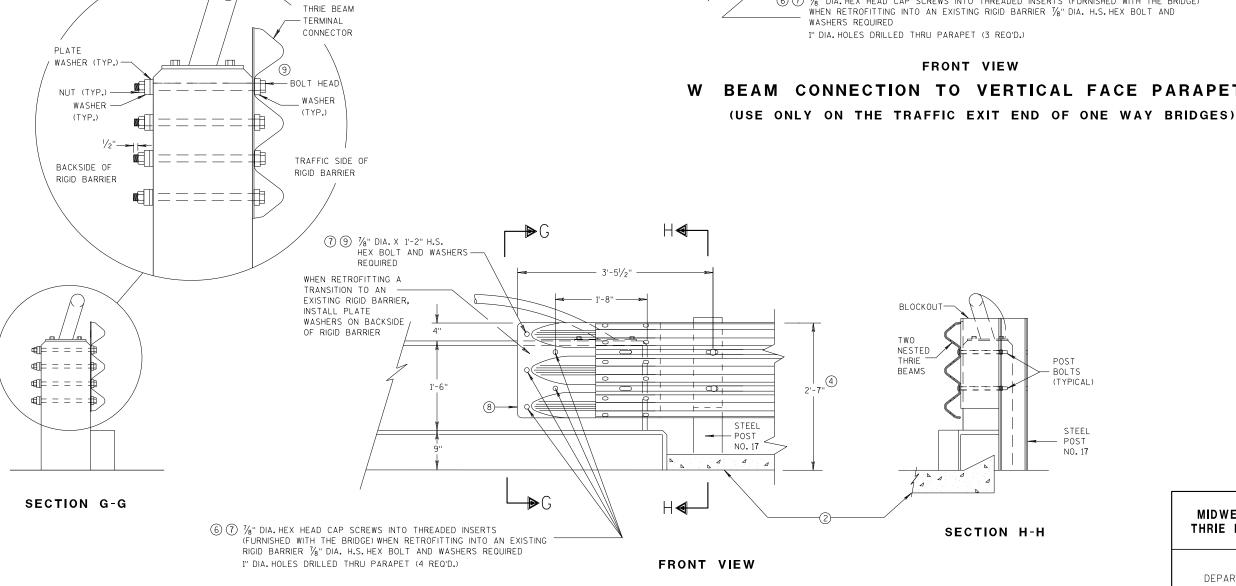








- (2) OPTIONAL CURB AND GUTTER OR DRAINAGE FEATURE SEE PLAN FOR INFORMATION.
- (4) TOLERANCE FOR TOP OF BEAM IS ± 1".
- 6 DRILLING BOLT HOLES THROUGH THE PARAPET, BOLTS, NUTS, WASHERS AND REPAIRING DAMAGED CONCRETE ARE INCIDENTAL TO THE CONTRACT.
- 7 BOLTS MAY BE A325 BOLTS OR A449 BOLTS. BOLT LENGTH AND THREADING LENGTH ARE TO ALLOW FOR A TIGHT CONNECTION BETWEEN RIGID BARRIER AND THRIE BEAM CONNECTION PLATE. CONTRACTOR IS TO FIELD VERIFY BOLT LENGTH AND THREAD LENGTH. ONE ROUND WASHER REQUIRED BETWEEN BOLT HEAD AND THRIE BEAM CONNECTOR PLATE, BOLTS THAT EXTEND THROUGH THE PARAPET AND OUT THE BACK FACE REQUIRE A HARDENED ROUND STEEL WASHER THAT IS 2" O.D. X 5/32" THICK AND ONE PLATE WASHER. REPAIR ANY DAMAGED CONCRETE FROM BOLT INSTALLATION.
- (8) THE RECESS FOR A W-BEAM CONNECTION, WHICH EXISTS ON SOME PARAPETS OF THIS TYPE, SHALL BE FILLED WITH A TREATED TIMBER BLOCKOUT. BLOCKOUT SIZE IS 1'-6" X 2'-0" X 3 1/2".
- (9) BOLT, NUT AND WASHERS NOT REQUIRED FOR THIS LOCATION WHEN RETROFITTING AN EXISTING PAPAPET AND THE HOLE IS EITHER ABOVE PARAPET OR WITHIN 4 INCHES OF THE EDGE OF PARAPET.



THRIE BEAM CONNECTION TO VERTICAL FACED PARAPETS

LIMIT OF STEEL PLATE 7 7/8" DIA. X 1'-2" H.S. MGS BEAM GUARD HEX BOLT AND WASHERS REQUIRED 5'-0 1/4" ONE WAY
TRAFFIC WHEN RETROFITTING A TRANSITION TO AN EXISTING RIGID BARRIER, INSTALL 9 PLATE WASHERS ON BACKSIDE OF RIGID BARRIER W BEAM TERMINAL 8 CONNECTOR (4) 2'-7' 6 7 %" DIA. HEX HEAD CAP SCREWS INTO THREADED INSERTS (FURNISHED WITH THE BRIDGE) WHEN RETROFITTING INTO AN EXISTING RIGID BARRIER 1/8" DIA. H.S. HEX BOLT AND

BEAM CONNECTION TO VERTICAL FACE PARAPET

MIDWEST GUARDRAIL SYSTEM THRIE BEAM TRANSITION (MGS)

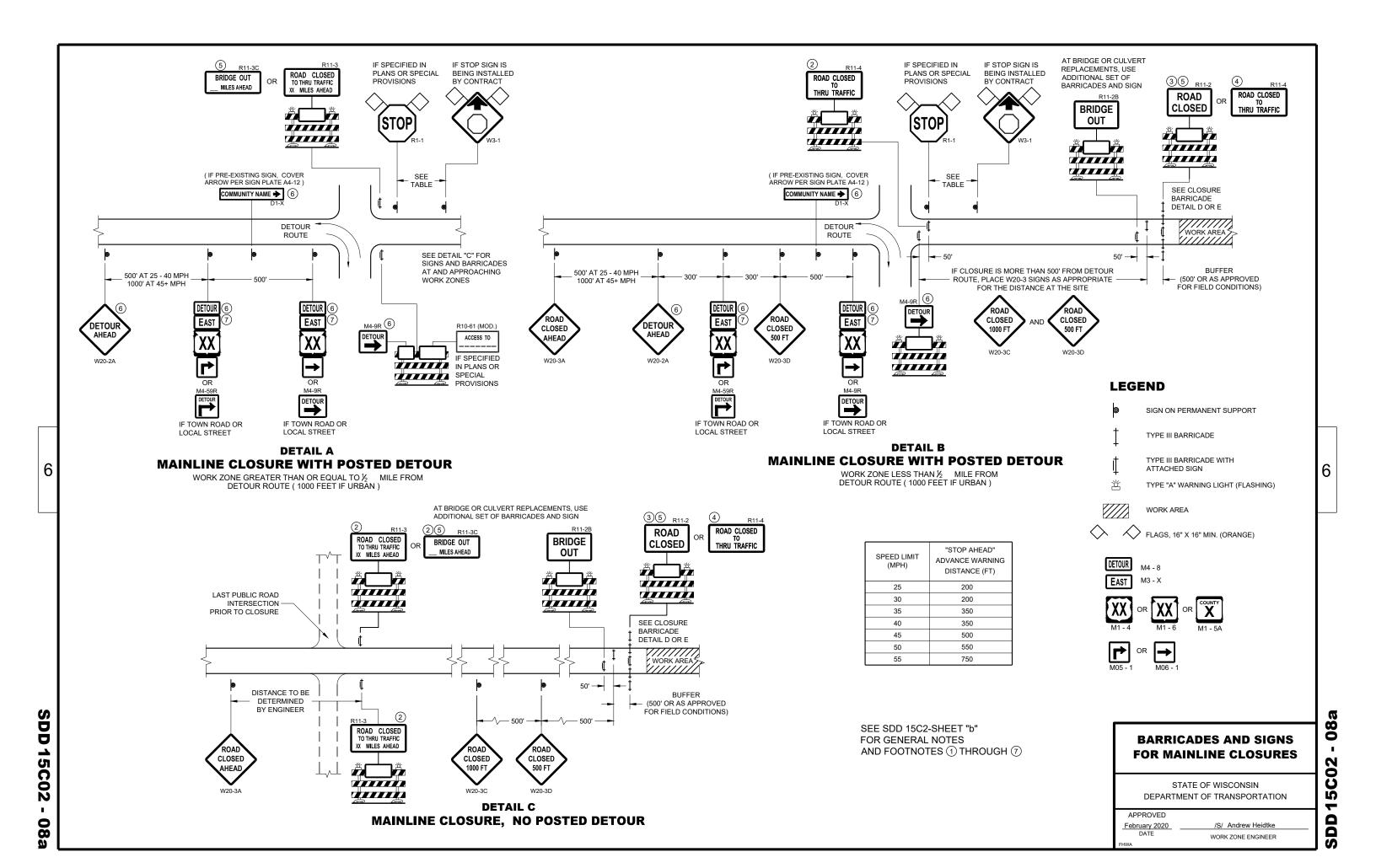
STATE OF WISCONSIN DEPARTMENT OF TRANSPORTATION

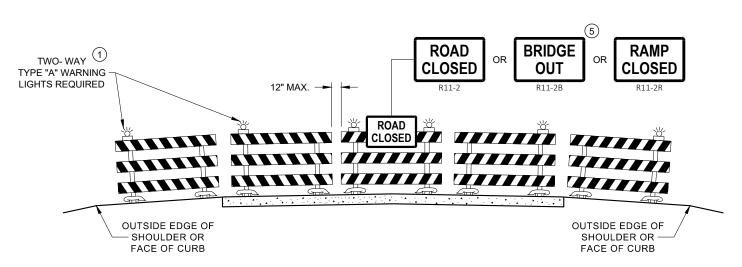
APPROVED /S/ Rodney Taylor 07/2018 DATE ROADWAY STANDARDS DEVELOPMENT UNIT SUPERVISOR

D D ₿

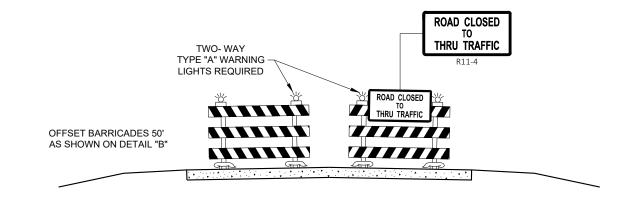
G

45 Ω 14 Δ Δ





DETAIL D 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 BARRICADE.

THE R11 - 2, R11 - 3, M4 - 9, R11 - 4, AND R10 - 61 SIGNS PLACED ON THE BARRICADES SHALL COVER NO MORE THAN THE TOP RAIL. THE SIGNS SHALL NOT COVER ANY PORTION OF THE MIDDLE RAIL 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 SHALL, 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" (36" X 18" 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 LIGHT SPACING.
- THESE SIGNS AND BARRICADES ARE NOT REQUIRED IF ROAD CLOSURE BEGINS AT AN INTERSECTION.
- (3) FOR ROAD CLOSURE WITHOUT LOCAL ACCESS TO PROJECT, SEE ROAD CLOSURE BARRICADE DETAIL "D".
- (4) FOR ROAD CLOSURE WITH LOCAL ACCESS TO PROJECT, SEE ROAD CLOSURE BARRICADE DETAIL "E".
- (5) FOR BRIDGE OR CULVERT REPLACEMENTS, SUBSTITUTE "BRIDGE OUT" INSTEAD OF "ROAD CLOSED" ON R11 2 AND R11 3 SIGNS.
- (6) 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.
- (7) "EAST" CARDINAL DIRECTION MARKERS AND RIGHT TURN ARROWS ARE SHOWN. USE OTHER CARDINAL DIRECTIONS AND ARROWS AS APPROPRIATE.

FOR VARIOUS CLOSURES

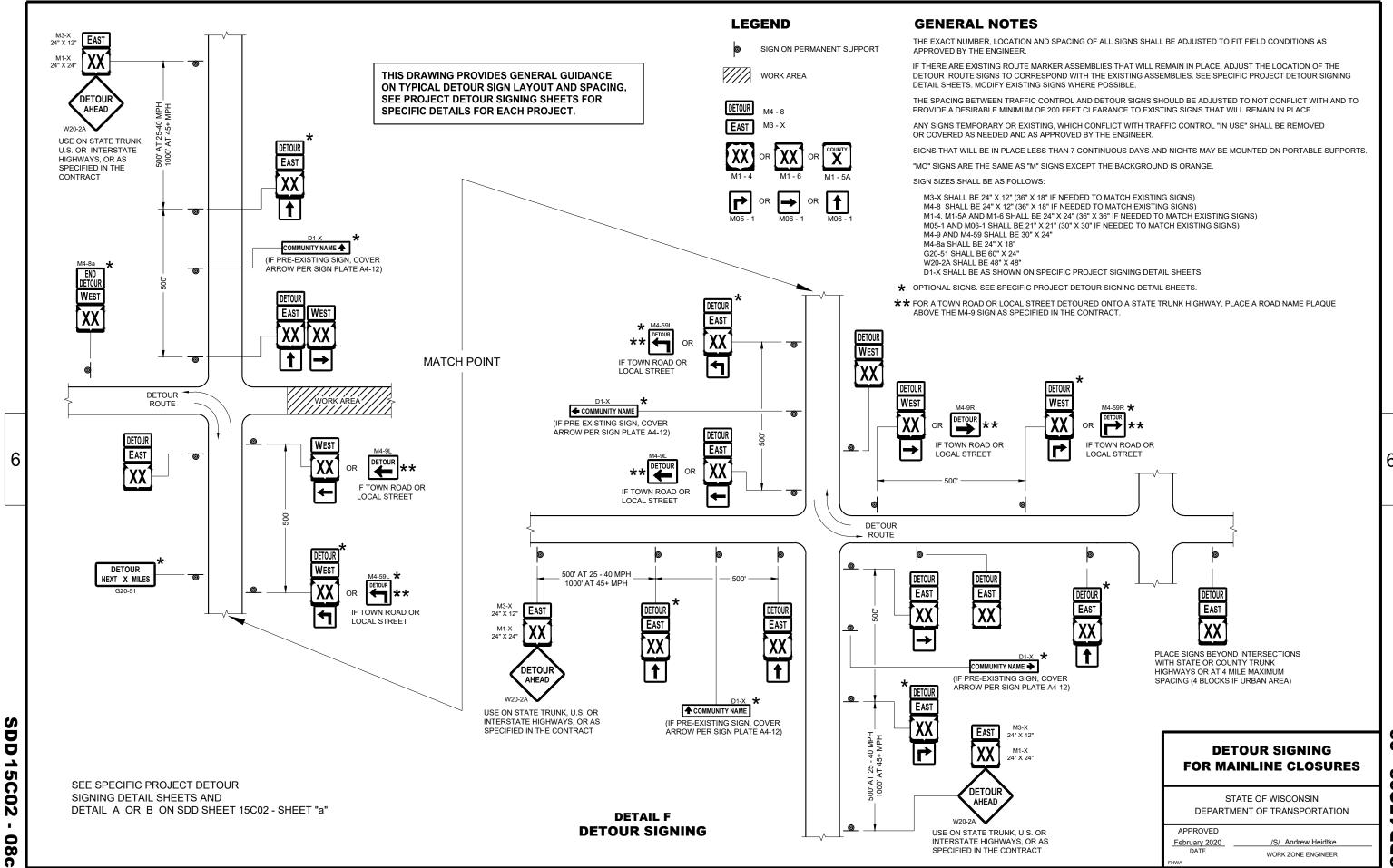
STATE OF WISCONSIN
DEPARTMENT OF TRANSPORTATION

APPROVED

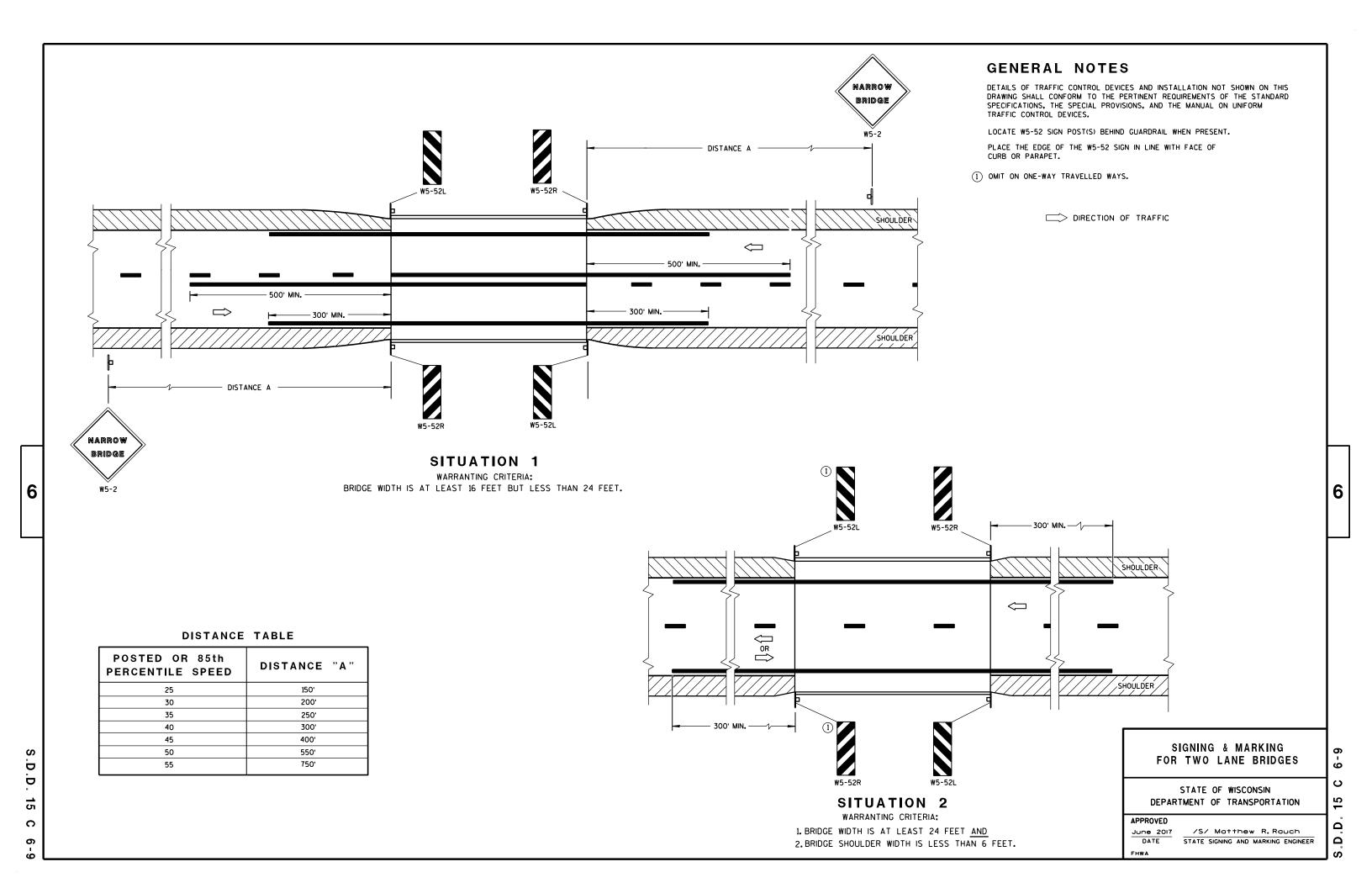
February 2020 /S/ Andrew Heidtke

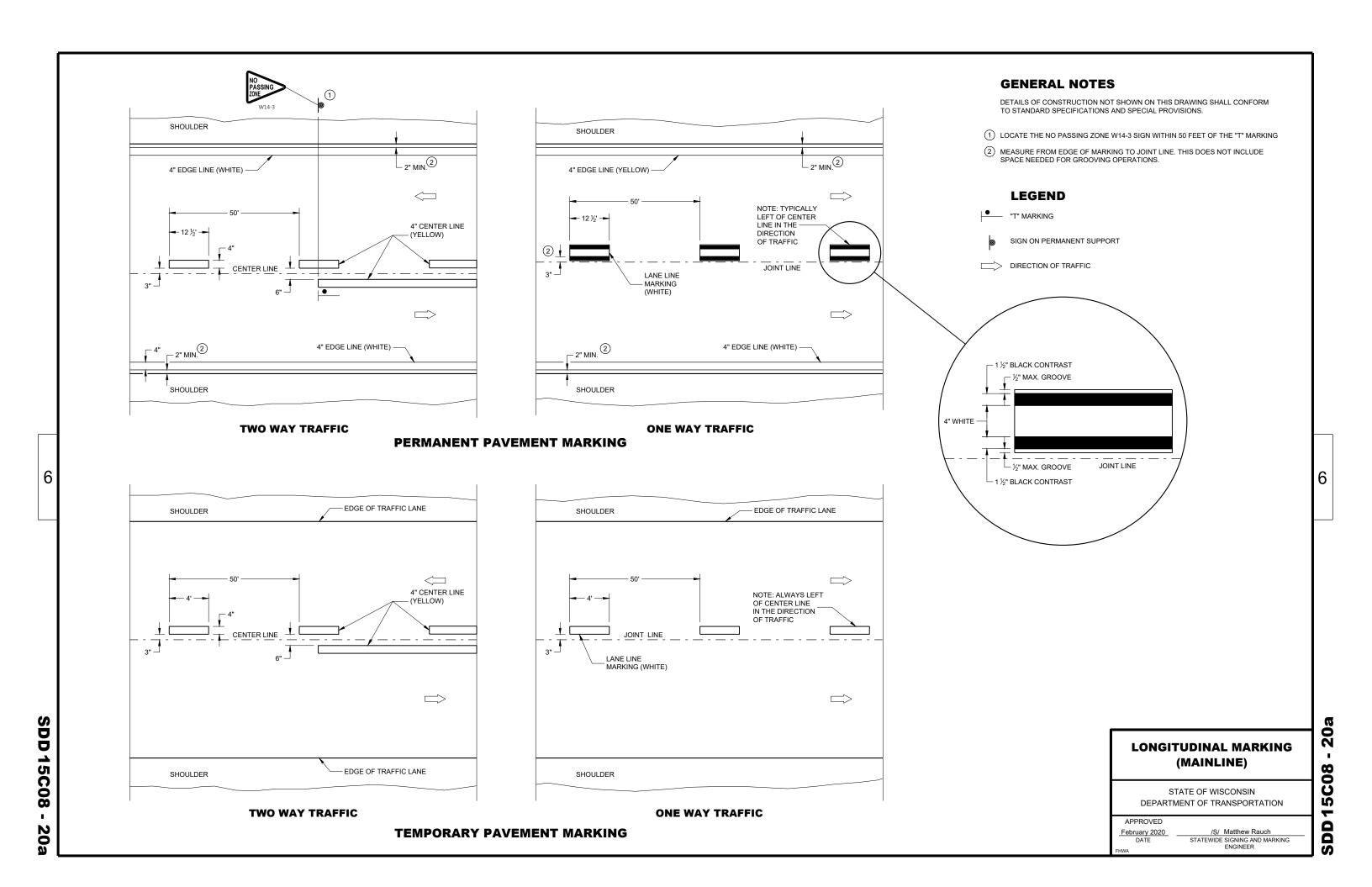
DATE WORK ZONE ENGINEER

D15C02



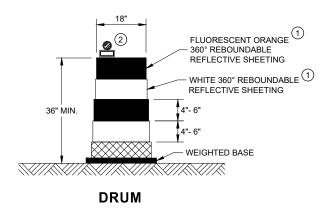
Ŋ

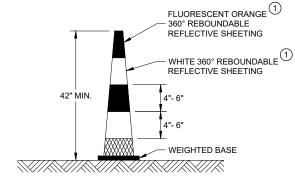




GENERAL NOTES

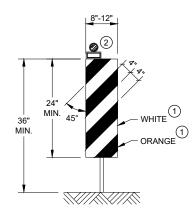
- (1) REFLECTIVE SHEETING SHALL FOLLOW THE REQUIREMENTS IN THE APPROVED PRODUCTS LISTING FOR SIGN SHEETING.
- (2) LOCATION OF WARNING LIGHTS WHEN SHOWN ON THE PLAN.



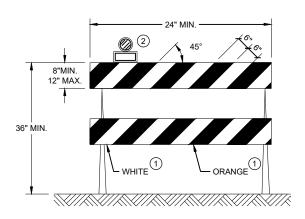


½ SPACING OF DRUMS



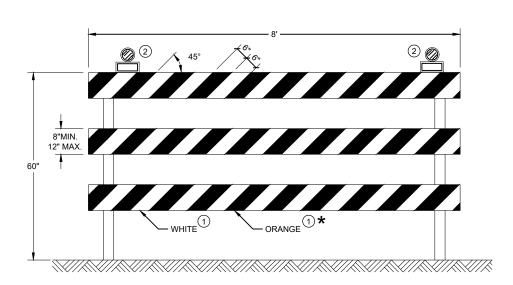


VERTICAL PANEL THE STRIPES SHALL SLOPE DOWNWARD TO THE TRAFFIC SIDE FOR CHANNELIZATION.



TYPE II BARRICADE

FOR RAILS LESS THAN 36" LONG, 4" WIDE STRIPES MAY BE USED. ALL STRIPES SHALL SLOPE DOWNWARD TO THE TRAFFIC SIDE FOR CHANNELIZATION.



TYPE III BARRICADE

IF SIGN MOUNTED, DO NOT COVER MORE THAN 50% OF THE TOP TWO RAILS OR 33% OF THE TOTAL AREA OF THE THREE RAILS.

* IF USED FOR A PERMANENT APPLICATION USE RED SHEETING.

CHANNELIZING DEVICES DRUMS, CONES, BARRICADES AND VERTICAL PANELS

STATE OF WISCONSIN DEPARTMENT OF TRANSPORTATION <u>60</u>

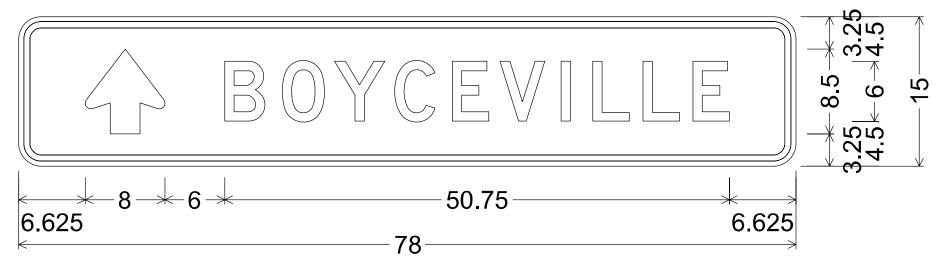
15C

| APPROVED | |
|----------|--------------------|
| May 2021 | /S/ Andrew Heidtke |
| DATE | WORK ZONE ENGINEER |
| EHWA | |

- 1. Fixed Message Signs Type II Type F Reflective
- 2. Color:

Background - Orange Message - Black

3. Message Series - D

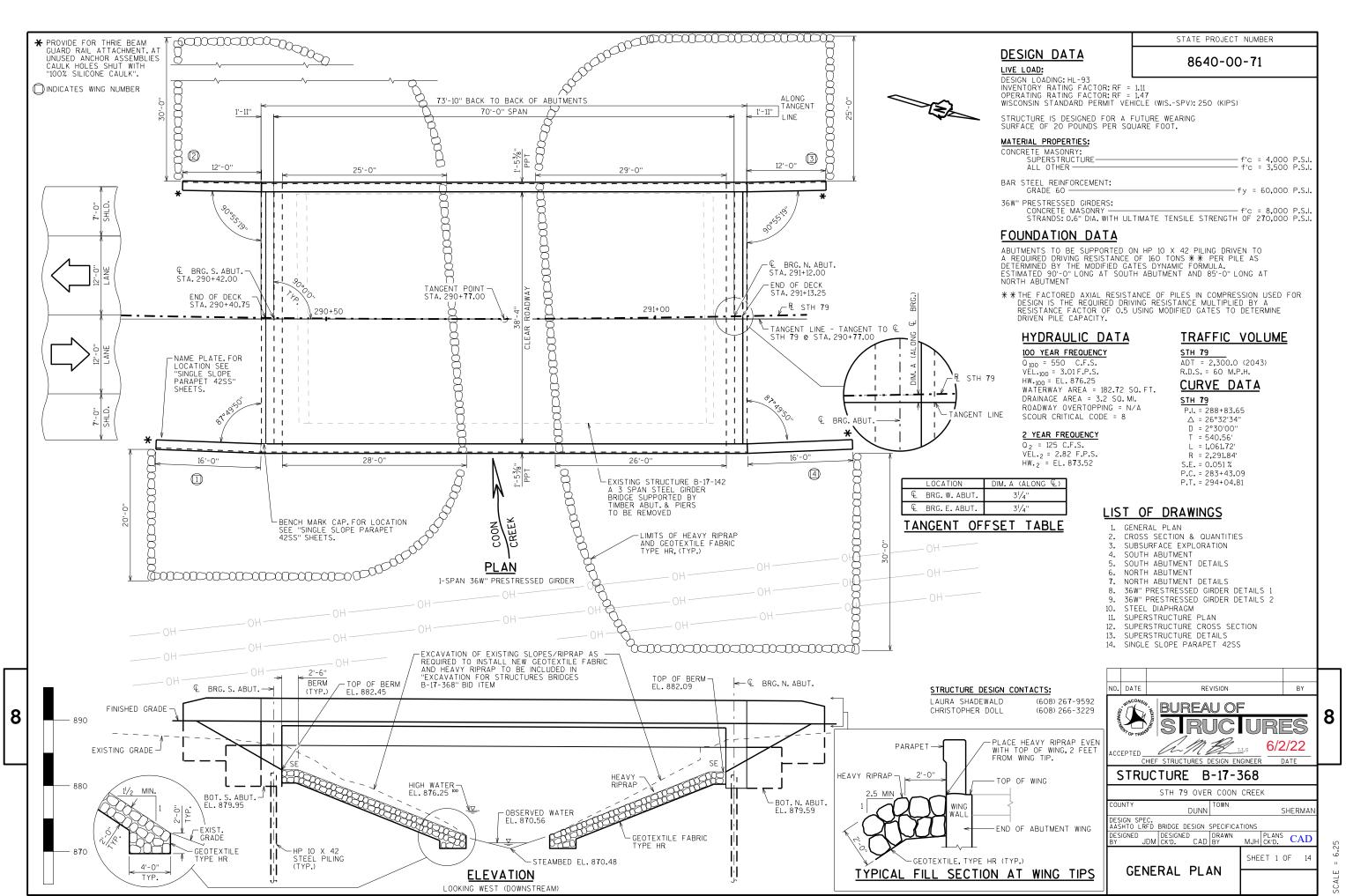


2.250" Radius, 0.625" Border, 0.500" Indent

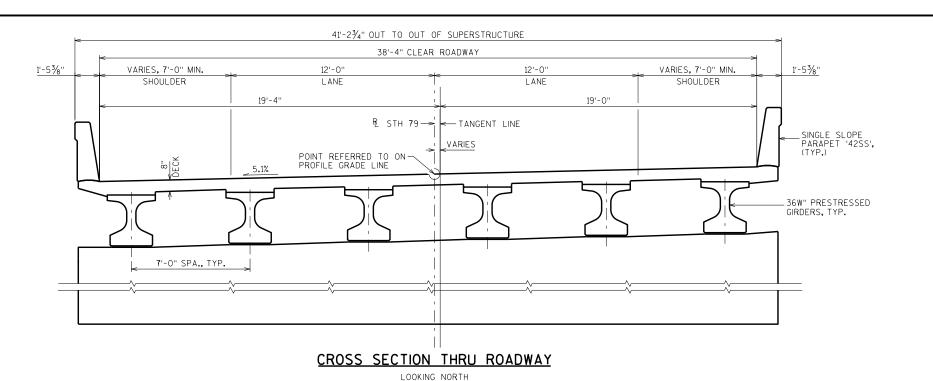
7

PROJECT NO:8640-00-71/73 HWY:STH 79 COUNTY:DUNN TEMPORARY SIGNING SHEET NO:

PLOT NAME :



DATE: MAY 2022



LINIT SUPER SOUTH NORTH TOTALS

TOTAL ESTIMATED QUANTITIES

DID ITEMS

BID ITEM

| | NUMBER | BID ITEMS | UNIT | SUPER. | ABUT. | ABUT. | TOTALS |
|-------|----------|--|------|------------|-------|-------|-------------------|
| | 203.0260 | REMOVING STRUCTURE OVER WATERWAY MINIMAL DEBRIS B-17-142 | EACH | | | | 1 |
| | 206.1000 | EXCAVATION FOR STRUCTURES BRIDGES B-17-368 | LS | | | | 1 |
| | 210.1500 | BACKFILL STRUCTURE TYPE A | TON | | 261 | 261 | 522 |
| | 502.0100 | CONCRETE MASONRY BRIDGES | CY | 135.4 | 52.3 | 52.3 | 240 |
| | 502.3200 | PROTECTIVE SURFACE TREATMENT | SY | 323 | | | 323 |
| | 502.3210 | PIGMENTED SURFACE SEALER | SY | 7 2 | 14 | 14 | 100 |
| | 503.0137 | PRESTRESSED GIRDER TYPE I 36W-INCH | LF | 426 | | | 426 |
| | 505.0400 | BAR STEEL REINFORCEMENT HS STRUCTURES | LB | | 2,660 | 2,660 | 5,320 |
| | 505.0600 | BAR STEEL REINFORCEMENT HS COATED STRUCTURES | LB | 21,370 | 2,890 | 2,890 | 27,150 |
| | 506.2605 | BEARING PADS ELASTOMERIC NON-LAMINATED | EACH | | 6 | 6 | 12 |
| I 8 I | 506.4000 | STEEL DIAPHRAGMS B-17-368 | EACH | 5 | | | 5 |
| | 516.0500 | RUBBERIZED MEMBRANE WATERPROOFING | SY | | 12 | 12 | 24 |
| | 550.1100 | PILING STEEL HP 10-INCH X 42 LB | LF | | 900 | 850 | 1 ,7 50 |
| | 606.0300 | RIPRAP HEAVY | CY | | 230 | 255 | 485 |
| | 612.0406 | PIPE UNDERDRAIN WRAPPED 6-INCH | LF | | 100 | 100 | 200 |
| | 614.0150 | ANCHOR ASSEMBLIES FOR STEEL PLATE BEAM GUARD | EACH | | 2 | 2 | 4 |
| | 645.0111 | GEOTEXTILE TYPE DF SCHEDULE A | SY | | 33 | 33 | 66 |
| | 645.0120 | GEOTEXTILE TYPE HR | SY | | 353 | 390 | 743 |
| | | | | | | | |
| | | NON-BID ITEMS | | | | | |
| | | FILLER | SIZE | | | | 1/2", 3/4", 11/2" |
| | | | | | | | |

GENERAL NOTES

8640-00-71

STATE PROJECT NUMBER

DRAWINGS SHALL NOT BE SCALED.

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

THE FIRST OR FIRST TWO DIGITS OF THE BAR MARK SIGNIFIES THE BAR SIZE.

BEVEL EXPOSED EDGES OF CONCRETE 3/4" UNLESS OTHERWISE NOTED.

THE UPPER LIMIT OF "EXCAVATION FOR STRUCTURES BRIDGES B-17-368" SHALL BE THE EXISTING GROUNDLINE.

AT THE BACK FACE OF ABUTMENT ALL VOLUME WHICH CANNOT BE PLACED BEFORE ABUTMENT CONSTRUCTION AND IS NOT OCCUPIED BY THE NEW STRUCTURE SHALL BE BACKFILLED WITH STRUCTURE BACKFILL 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.

THE QUANTITY FOR BACKFILL STRUCTURE IS CALCULATED BASED ON THE DETAIL SHOWN IN

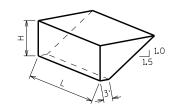
ELASTOMERIC BEARING PADS NEED NOT BE INDIVIDUALLY MOLDED PROVIDED THE CUT EDGES ARE SMOOTH AND TRUE.

PROTECTIVE SURFACE TREATMENT TO BE APPLIED TO THE ENTIRE EXPOSED TOP OF DECK SURFACE AND THE VERTICAL AND HORIZONTAL SURFACES OF THE PAVING NOTCHES AT ABUTMENT DIAPHRAGMS.

PIGMENTED PROTECTIVE SURFACE SEALER TO BE APPLIED TO THE FRONT FACE AND THE TOP OF THE PARAPETS, INCLUDING PARAPETS ON WINGS.

THE SLOPE OF THE FILL IN FRONT OF THE ABUTMENTS SHALL BE COVERED WITH HEAVY RIPRAP AND GEOTEXTILE TYPE "HR" TO THE EXTENT SHOWN ON SHEET 1 AND THE ABUTMENT DETAILS.

THE HAUNCH CONCRETE QUANTITY IS BASED ON THE AVERAGE HAUNCH SHOWN ON THE "36W" PRESTRESSED GIRDER DETAILS 2" SHEET.

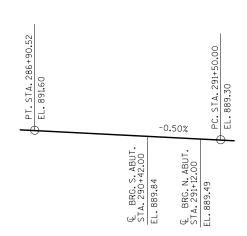


ABUTMENT BACKFILL DIAGRAM FOR WINGS PARALLEL TO ROADWAY

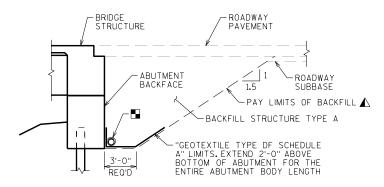
= OUT TO OUT OF ABUTMENT, INCLUDING WINGS (FT) = AVERAGE ABUTMENT FILL HEIGHT (FT) = EXPANSION FACTOR (1.20 FOR CY BID ITEMS AND 1.00 FOR TON BID ITEMS)

EF

 $V_{CF} = (L)(3.0)(H) + (L)(0.5)(1.5H)(H)$ $V_{CY} = V_{CF}(EF)/27$ $V_{TON} = V_{CY}(2.0)$

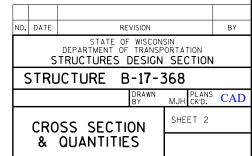


PROFILE GRADE LINE - STH 79

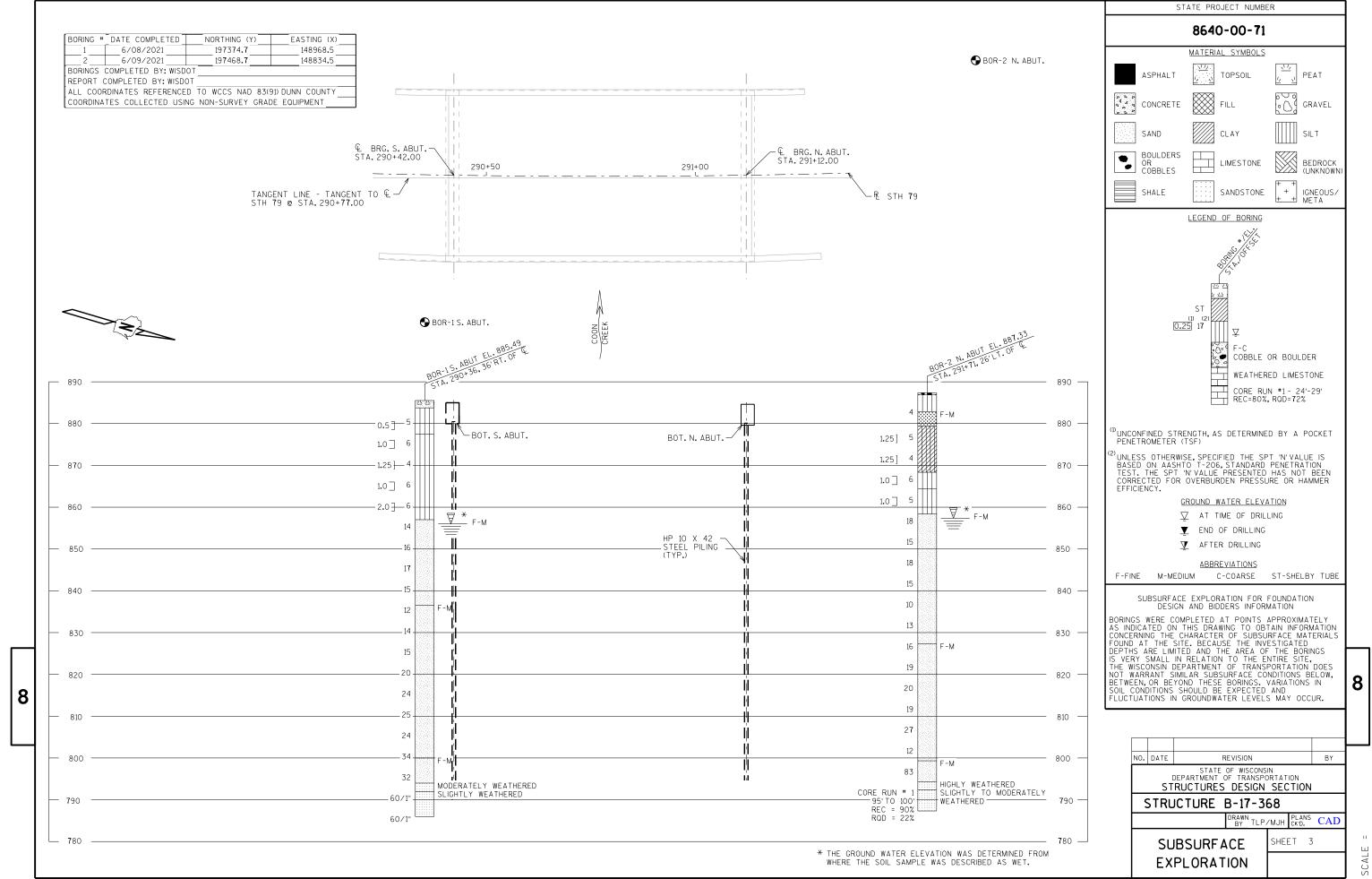


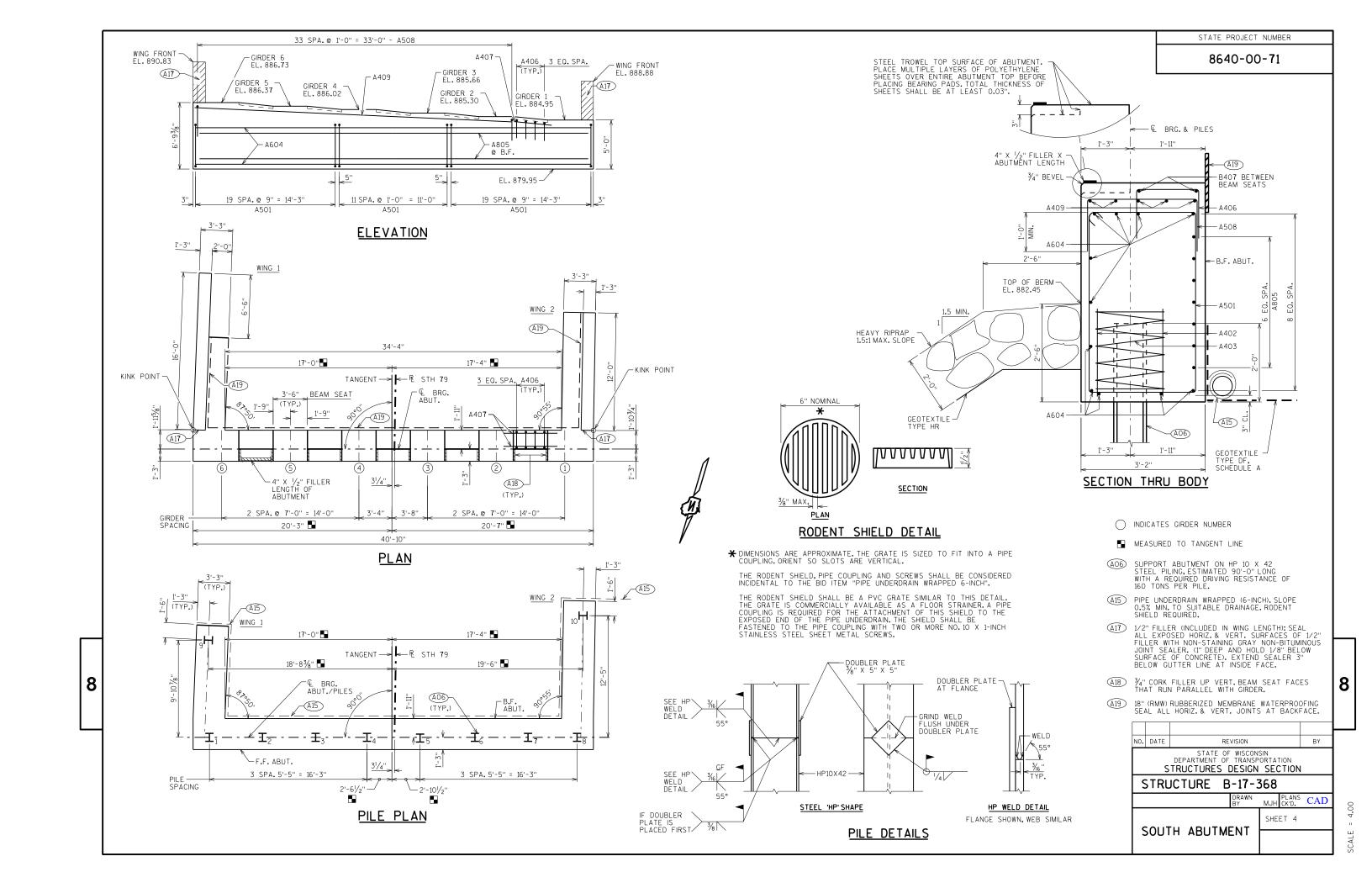
TYPICAL SECTION THRU ABUTMENT

- ⚠ BACKFILL PAY LIMITS. BACKFILL BEYOND BACKFILL PAY LIMITS SHALL BE INCIDENTAL TO EXCAVATION FOR STRUCTURES, LIMITS OF EXCAVATION SHALL BE DETERMINED BY THE CONTRACTOR.
- PIPE UNDERDRAIN WRAPPED (6 INCH). SLOPE 0.5% MIN. TO SUITABLE DRAINAGE. ATTACH RODENT SHIELD AT ENDS OF PIPE UNDERDRAIN, SEE RODENT SHIELD DETAIL ON ABUT. DETAIL SHTS.



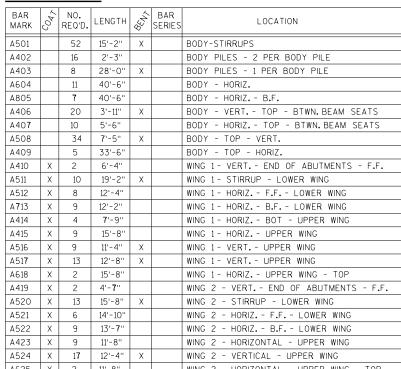
2.75





BILL OF BARS

| BAR MARK | C047 | NO. REQ'D. | LENGTH | 1 A. | BAR SERIES | LOCATION | | | | | |
|-------------|------|---------------|----------------|--|---------------|--|--|--|--|--|--|
| A501 | | 52 | 15'-2" | Х | | BODY-STIRRUPS | | | | | |
| A402 | | 16 | 2'-3'' | | | BODY PILES - 2 PER BODY PILE | | | | | |
| A403 | | 8 | 28'-0" | Х | | BODY PILES - 1 PER BODY PILE | | | | | |
| A604 | | 11 | 40'-6" | | | BODY - HORIZ. | | | | | |
| A805 | | 7 | 40'-6" | | | BODY - HORIZ B.F. | | | | | |
| A406 | | 20 | 3'-11" | Х | | BODY - VERT TOP - BTWN. BEAM SEATS | | | | | |
| A407 | | 10 | 5'-6" | | | BODY - HORIZ TOP - BTWN. BEAM SEATS | | | | | |
| A508 | | 34 | 7'-5" | Х | | BODY - TOP - VERT. | | | | | |
| A409 | | 5 | 33'-6" | | | BODY - TOP - HORIZ. | | | | | |
| A410 | Х | 2 | 6'-4" | | | WING 1 - VERT END OF ABUTMENTS - F.F. | | | | | |
| A511 | Х | 10 | 19'-2" | Х | | WING 1 - STIRRUP - LOWER WING | | | | | |
| A512 | Х | 8 | 12'-4'' | | | WING 1 - HORIZ F.F LOWER WING | | | | | |
| A 713 | Х | 9 | 12'-2" | | | WING 1 - HORIZ B.F LOWER WING | | | | | |
| A414 | Х | 4 | 7 '-9'' | | | WING 1 - HORIZ BOT - UPPER WING | | | | | |
| A415 | Х | 9 | 15'-8'' | | | WING 1 - HORIZ UPPER WING | | | | | |
| A516 | Х | 9 | 11'-4'' | Х | | WING 1 - VERT UPPER WING | | | | | |
| A517 | Х | 13 | 12'-8'' | Х | | WING 1 - VERT UPPER WING | | | | | |
| A618 | Х | 2 | 15'-8'' | | | WING 1 - HORIZ UPPER WING - TOP | | | | | |
| A419 | Х | 2 | 4'-7'' | | | WING 2 - VERT END OF ABUTMENTS - F.F. | | | | | |
| A520 | Х | 13 | 15'-8'' | Х | | WING 2 - STIRRUP - LOWER WING | | | | | |
| A521 | Х | 6 | 14'-10'' | | | WING 2 - HORIZ F.F LOWER WING | | | | | |
| A522 | Х | 9 | 13'-7'' | | | WING 2 - HORIZ B.F LOWER WING | | | | | |
| A423 | Х | 9 | 11'-8'' | | | WING 2 - HORIZONTAL - UPPER WING | | | | | |
| A524 | Х | 17 | 12'-4" | Х | | WING 2 - VERTICAL - UPPER WING | | | | | |
| A625 | Х | 2 | 11'-8'' | | | WING 2 - HORIZONTAL - UPPER WING - TOP | | | | | |



SUPPORT ABUTMENT ON HP 10 X 42 STEEL PILING, ESTIMATED 90'-0" LONG WITH A REQUIRED DRIVING RESISTANCE OF 160 TONS PER PILE.

(AO3) OPTIONAL CONST. JOINT: KEYWAY FORMED BY BEVELED 2 x 6. (18" RMW @ B.F. & 3/4" "V" GROOVE @ F.F. IF JOINT IS USED).

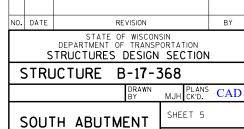
(A15) PIPE UNDERDRAIN WRAPPED (6-INCH). SLOPE 0.5% MIN. TO SUITABLE DRAINAGE. RODENT SHIELD REQUIRED.

A17

1/2" FILLER (INCLUDED IN WING LENGTH): SEAL ALL EXPOSED HORIZ. & VERT. SURFACES OF 1/2" FILLER WITH NON-STAINING GRAY NON-BITUMINOUS JOINT SEALER. (1" DEEP AND HOLD 1/8" BELOW SURFACE OF CONCRETE). EXTEND SEALER 3" BELOW GUTTER LINE AT INSIDE FACE.

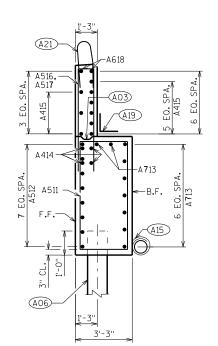
(A19) 18" (RMW) RUBBERIZED MEMBRANE WATERPROOFING SEAL ALL HORIZ. & VERT. JOINTS AT BACKFACE.

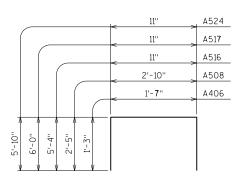
DETAILS



| < | 10 | 5'-0" | 1 |
|-----------------|-----------------------------------|--|--|
| ING TIP | A. @ 9" = 6'-0" A516 6" | 12 SPA. @ 9" MAX. = 9'-0" A517 — A618 | WING FRONT EL. 890.83 |
| 5-2/2" 5-9" | A414 F.F. & A511 B.F. 1'-6" | FINISHED GROUND LINE A512 F.F. A713 B.F. A713 B.F. A713 B.F. | A410 EL. 886.73 A410 A501 1.866-9 -9-2 |
| | | | |

WING 1



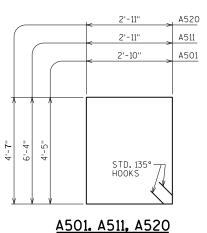


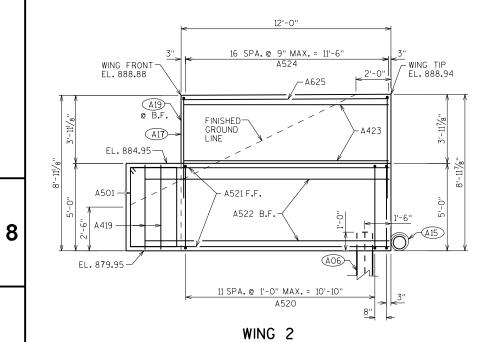
5 WRAP-SPIRAL

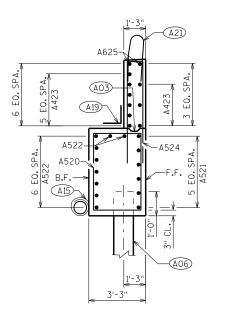
<u>A403</u>

A406, A508, A516, A517, A524





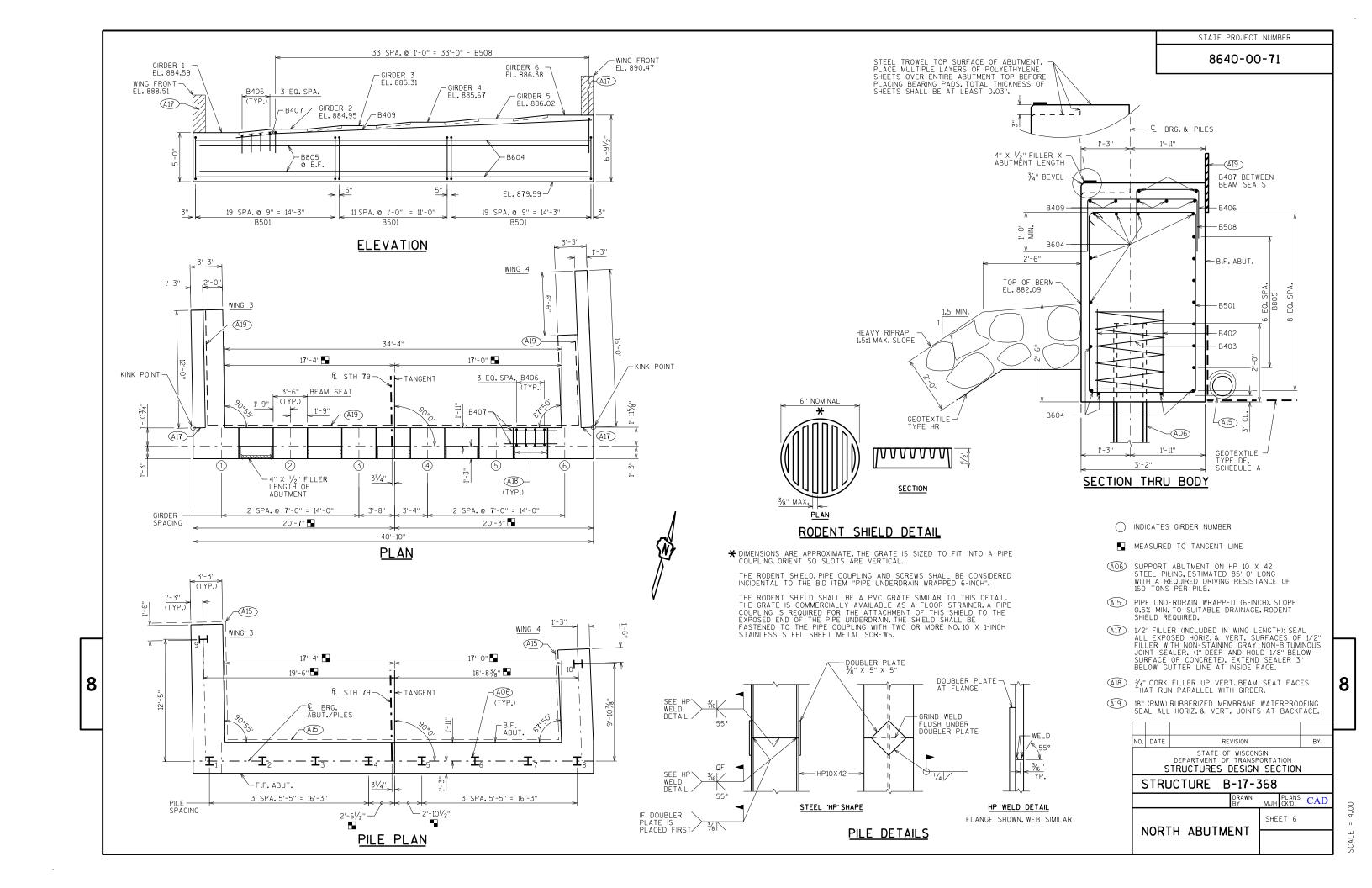


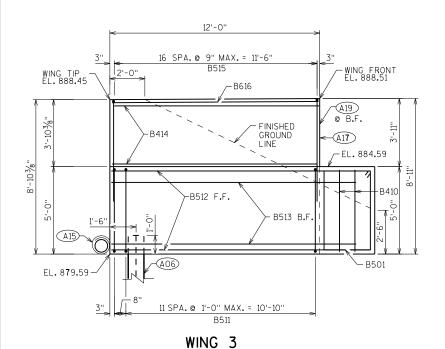


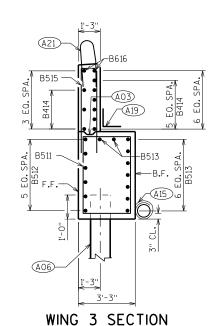
WING 2 SECTION

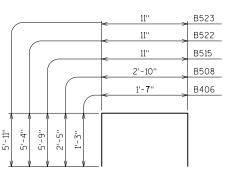
(A21) FOR PPT. BARS & DIMENSIONS, SEE "SINGLE SLOPE PARAPET 42SS" SHEET.

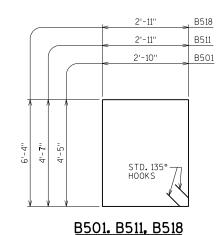










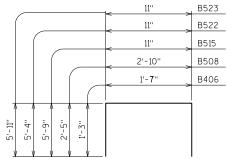


B403

BILL OF BARS

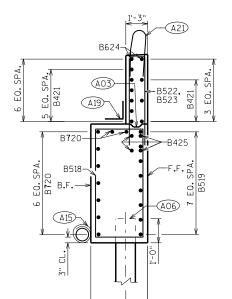
B624 X 2 15'-8"

| B425 | X | 4 | **7**'-9''



5 WRAP SPIRAL

B406, B508, B515, B522, B523



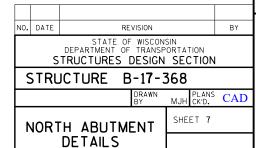
(AO3) OPTIONAL CONST. JOINT: KEYWAY FORMED BY BEVELED 2 x 6. (18" RMW @ B.F. & 3/4" "V" GROOVE @ F.F. IF JOINT IS USED).

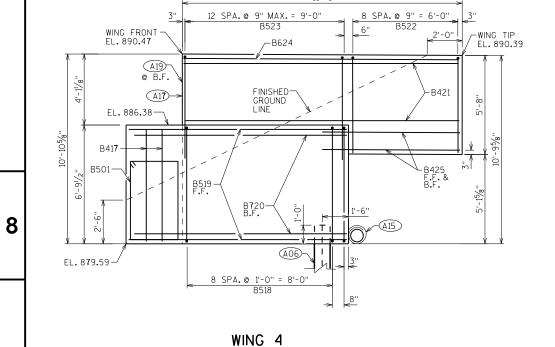
WING 4 - HORIZ. - UPPER WING - TOP

WING 4 - HORIZ. - BOT. - UPPER WING

- (A06)
- (A15) PIPE UNDERDRAIN WRAPPED (6-INCH). SLOPE 0.5% MIN. TO SUITABLE DRAINAGE. RODENT SHIELD REQUIRED.
- A17

 1/2" FILLER (INCLUDED IN WING LENGTH): SEAL ALL EXPOSED HORIZ. & VERT. SURFACES OF 1/2" FILLER WITH NON-STAINING GRAY NON-BITUMINOUS JOINT SEALER. (1" DEEP AND HOLD 1/8" BELOW SURFACE OF CONCRETE). EXTEND SEALER 3" BELOW GUTTER LINE AT INSIDE FACE.
- (A19) 18" (RMW) RUBBERIZED MEMBRANE WATERPROOFING SEAL ALL HORIZ. & VERT. JOINTS AT BACKFACE.
- (A21) FOR PPT. BARS & DIMENSIONS, SEE "SINGLE SLOPE PARAPET 42SS" SHEET.





WING 4 SECTION

| | | | _ | | | | | | | | | |
|---------------|-------|---------------|---------|-------|---------------|---------------------------------------|--|--|--|--|--|--|
| BAR MARK | Z 805 | NO. REQ'D. | LENGTH | N. W. | BAR SERIES | LOCATION | | | | | | |
| B501 | | 52 | 15'-2" | Х | | BODY-STIRRUPS | | | | | | |
| B402 | | 16 | 2'-3" | | | BODY PILES - 2 PER BODY PILE | | | | | | |
| B403 | | 8 | 28'-0" | Х | | BODY PILES - 1 PER BODY PILE | | | | | | |
| B604 | | 11 | 40'-6" | | | BODY - HORIZ. | | | | | | |
| B805 | | 7 | 40'-6" | | | BODY - HORIZ B.F. | | | | | | |
| B406 | | 20 | 3'-11" | Х | | BODY - VERT TOP - BTWN. BEAM SEATS | | | | | | |
| B407 | | 10 | 5'-6" | | | BODY - HORIZ TOP - BTWN. BEAM SEATS | | | | | | |
| B508 | | 34 | 7'-5" | Х | | BODY - TOP - VERT. | | | | | | |
| B409 | | 5 | 33'-6" | | | BODY - TOP - HORIZ. | | | | | | |
| B410 | Х | 2 | 4'-7'' | | | WING 1 - VERT END OF ABUTMENTS - F.F. | | | | | | |
| B511 | Х | 13 | 15'-8" | Х | | WING 3 - STIRRUP - LOWER WING | | | | | | |
| B512 | Х | 6 | 14'-10" | | | WING 3 - HORIZ F.F LOWER WING | | | | | | |
| B513 | Х | 9 | 13'-7" | | | WING 3 - HORIZ B.F LOWER WING | | | | | | |
| B414 | Х | 9 | 11'-8'' | | | WING 3 - HORIZ UPPER WING | | | | | | |
| B515 | Х | 17 | 5'-8'' | Х | | WING 3 - VERT UPPER WING | | | | | | |
| B616 | Х | 9 | 11'-8'' | | | WING 3 - HORIZ TOP - UPPER WING | | | | | | |
| B417 | Х | 2 | 6'-4" | | | WING 4 - VERT END OF ABUTMENTS - F.F. | | | | | | |
| B518 | Х | 10 | 19'-2" | Х | | WING 4 - STIRRUP - LOWER WING | | | | | | |
| B519 | Х | 8 | 12'-4" | | | WING 4 - HORIZ F.F LOWER WING | | | | | | |
| B 7 20 | Х | 9 | 12'-2" | | | WING 4 - HORIZ B.F LOWER WING | | | | | | |
| B421 | Х | 9 | 15'-8" | | | WING 4 - HORIZ UPPER WING | | | | | | |
| B522 | Х | 9 | 11'-4'' | Х | | WING 4 - VERT UPPER WING | | | | | | |
| B523 | Х | 13 | 12'-6" | Х | | WING 4 - VERT UPPER WING | | | | | | |
| | _ | | | | | | | | | | | |

- SUPPORT ABUTMENT ON HP 10 X 42 STEEL PILING, ESTIMATED 85'-O" LONG WITH A REQUIRED DRIVING RESISTANCE OF 160 TONS PER PILE.

NOTES

TOP OF GIRDER TO BE ROUGH FLOATED AND BROOMED TRANSVERSELY, EXCEPT THE OUTSIDE 8" OF GIRDER, WHICH SHALL RECEIVE A SMOOTH FINISH AN APPROVED CONCRETE SEALER SHALL BE APPLIED TO ALL SMOOTH SURFACES INCLUDING THE OUTSIDE 8" OF THE TOP FLANGE.

DO NOT APPLY CONCRETE SEALER OR EPOXY TO SURFACES RECEIVING APPLICATION OF CONCRETE STAINING.

THE GIRDERS SHALL BE PROVIDED WITH A SUITABLE LIFTING DEVICE FOR HANDLING AND ERECTING THE GIRDERS. SEE SECT. 503.3.4 OF STANDARD SPECIFICATIONS FOR GUIDANCE.

STRANDS SHALL BE FLUSH WITH END OF GIRDER FOR GIRDER ENDS EMBEDDED COMPLETELY IN CONCRETE, END OF STRANDS SHALL BE COATED WITH NON-BITUMINOUS JOINT SEALER. FOR GIRDER ENDS THAT ARE FINALLY EXPOSED, COAT THE GIRDER ENDS, EXPOSED STRAND ENDS AND ALL NON-BONDING SURFACES WITHIN 2 FEET OF THE GIRDER ENDS WITH A NON-PIGMENTED EPOXY CONFORMING TO AASHTO M-235 TYPE III, GRADE 2, CLASS B OR C. THE EPOXY SHALL BE APPLIED AT LEAST 3 DAYS AFTER MOIST CURING HAS CEASED AND PRIOR TO THE APPLICATION OF THE SEALER.

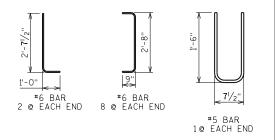
ALL GIRDERS SHALL BE CAST FULL LENGTH AS SHOWN.

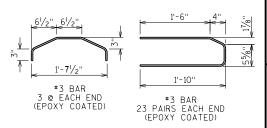
SPACING SHOWN FOR #4 STIRRUPS IS FOR GRADE 60 REINFORCEMENT.

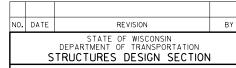
AN EQUIVALENT OF WELDED WIRE FABRIC (WWF) ASTM A1064 MAY BE SUBSTITUTED FOR THE STIRRUP REINFORCEMENT SHOWN, UPON APPROVAL OF THE STRUCTURES MAINTENANCE SECTION. IF USED, WWF SUBSTITUTION DETAILS SHALL BE SUBMITTED ELECTRONICALLY TO THE WISDOT FABRICATION LIBRARY AND ACCEPTED PRIOR TO SHOP DRAWING SUBMITTAL.

PRESTRESSING STRANDS SHALL BE (0.6" DIA.)-7 WIRE LOW-RELAXATION STRANDS WITH AN ULTIMATE STRENGTH OF 270,000 PSI.

FOR DIAPHRAGM INSERT & CONNECTION DETAILS SEE "STEEL DIAPHRAGM" SHEET.





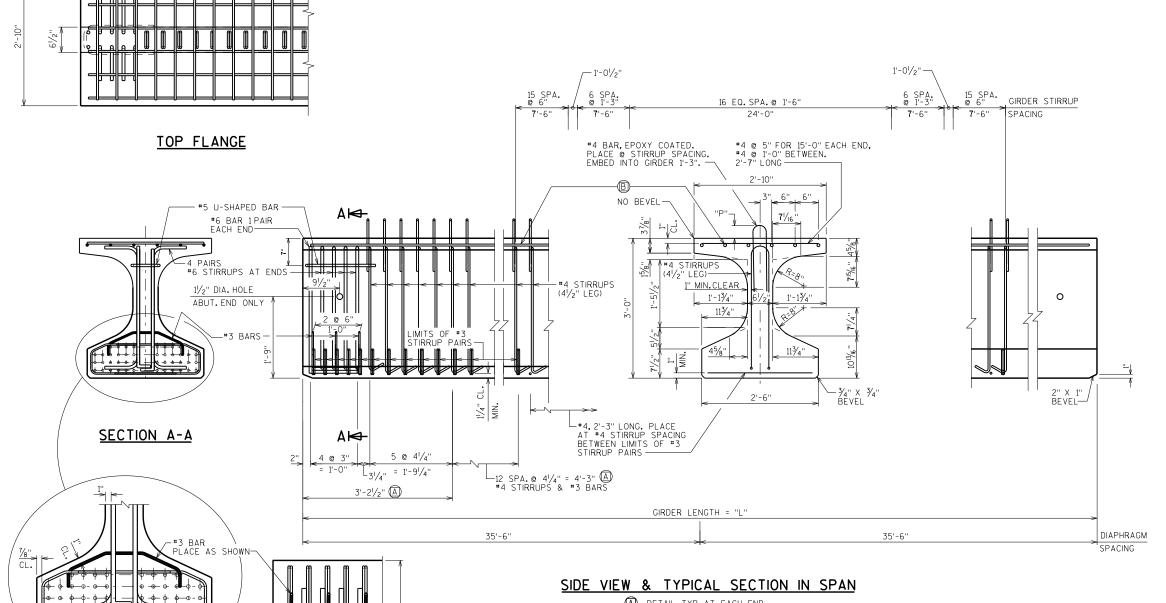


STRUCTURE B-17-368

BY MJH CKD. CAD

" PRESTRESSED SHEET 8

36W" PRESTRESSED GIRDER DETAILS 1



- (A) DETAIL TYP. AT EACH END
- B 6 #4 BARS, FULL LENGTH, MIN. LAP = 1'-11"

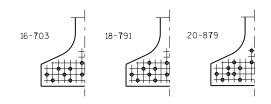
#6 BARS 1 PAIR EACH END #6 STIRRUPS 4 PAIRS EACH END #3 BARS 23 PAIRS EACH END

BOTTOM FLANGE

* MINIMUM CYLINDER STRENGTH OF CONCRETE @ TIME OF TRANSFER OF PRESTRESS FORCE.

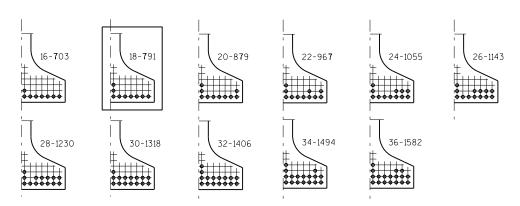
| | | | | | | | | | | | | GIRE | DER [| ΑΤΑ(| | | | | | | | |
|-----|--------|------------------|------|------|------|-------------|--------|---------|------|------------------|------|------------------|-------------------------|-----------|-------------------------|-----------------|-------------------|----------------------------------|------|-----|--------------------|-----|
| | | GIRDER LENGTH | | | DE | AD LC | DAD DE | EFL. (I | N.) | | | CONC. STRGTH. | 1C T 1/ | "P" (IN.) | | DIA. OF | TOTAL | DRAPE | D PA | | | |
| PAN | GIRDER | (FEET) | 1/10 | 2/10 | 3∕10 | ½ 10 | 5/10 | %10 | 7∕10 | 8/ ₁₀ | 9/10 | f'c (P.S.I.) | 1ST 1/3 OF GIRDER | OF | END 1/3 OF GIRDER | STRAND (IN.) | NO. OF STRANDS | f'ci (P.S.I.) X | "A" | "B" | V.) "B" MAX. | "C" |
| 1 | 1-6 | 71 | 0.2 | 0.4 | 0.6 | 0.7 | 0.8 | 0.7 | 0.6 | 0.4 | 0.2 | 8,000 | 8.0 | 7.0 | 8.0 | 0.6 | 18 | 6,400 | 32 | 11 | 14 | 4 |

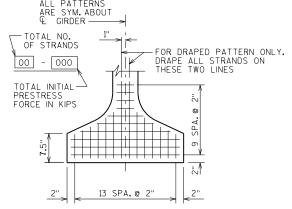
(1¹/₄" MIN.)



STANDARD ARRANGEMENTS TO RAISE CENTER OF GRAVITY TO AVOID DRAPING OF STRANDS

0.6" DIA. STRANDS

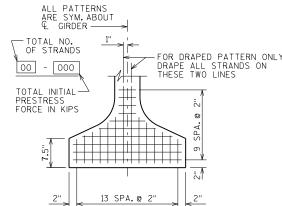




TYP. STRAND PATTERN

ARRANGEMENT AT & SPAN - FOR GIRDERS WITH DRAPED STRANDS

0.6" DIA. STRANDS



2/10 4/10 DEAD LOAD DEFLECTION DIAGRAM

PT.

- DECK THICKNESS

DECK HAUNCH DETAIL

TO DETERMINE 'T', ELEV. OF TOP OF GIR'S. AT \mathfrak{L} OF SUBSTRUCTURE UNITS & AT 1/10 POINTS OF EACH SPAN SHALL BE TAKEN. THEN FOLLOW THIS PROCESS:

TOP OF DECK ELEV. AT FINAL GRADE
- TOP OF GIRDER ELEVATION
- DEAD LOAD DEFLECTION
- DECK THICKNESS

NOTE: AN AVERAGE HAUNCH ('T') OF 3.3" WAS USED IN THE QUANTITY

** IF 3" MINIMUM DECK EMBEDMENT OF TIE BAR CANNOT BE OBTAINED.

= HAUNCH HEIGHT 'T

"CONCRETE MASONRY BRIDGES".

DEAD LOAD DEFL.-

PT.

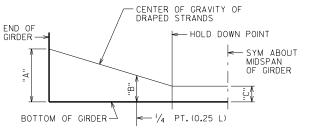
TOP OF GIRDER BEFORE DECK IS POURED.

IF $1^1\!/\!_4$ " MINIMUM HAUNCH HEIGHT AT EDGE OF GIRDER CANNOT BE MAINTAINED, THE GRADE LINE MAY BE REVISED BY THE ENGINEER AT THE OPTION OF THE CONTRACTOR, THE PLAN DECK THICKNESS SHALL BE HELD. NOTIFY THE STRUCTURES SECTION IF THE GRADE LINE IS RAISED FROM THE PLAN PROFILE BY MORE THAN 1/2" OR,

INT. GIR.

TIE BAR-

EXT. GIR.



8

DRAPED STRAND PROFILE

*THE THEORETICAL INITIAL CAMBER VALUE AT THE TIME OF STRAND RELEASE AT MIDSPAN MULTIPLIED BY A FACTOR OF 1.4 TO ACCOUNT FOR CAMBER CROWTH FROM THE TIME OF STRAND RELEASE TO JOBSITE PLACEMENT.

| SPAN | CAMBER | (IN.) * |
|------|--------|---------|
| 1 | 1.4" | |
| | | |
| | | |
| | | |
| | | |

THESE VALUES ARE NOT TO BE USED IN DETERMINING 'T'. USE ACTUAL GIRDER SHOTS.

THESE VALUES ARE FOR INFORMATIONAL PURPOSES ONLY.

NO. DATE BY REVISION STATE OF WISCONSIN
DEPARTMENT OF TRANSPORTATION
STRUCTURES DESIGN SECTION STRUCTURE B-17-368 MJH CK'D. CAD 36W" PRESTRESSED SHEET 9 **GIRDER** DETAILS 2

TOP OF GIRDER AFTER DECK, SIDEWALKS AND

PARAPET ARE POURED.

NOTES

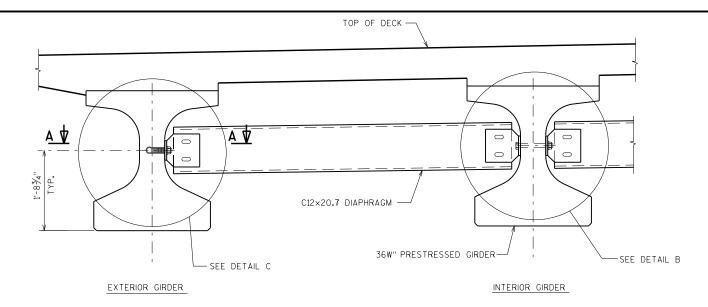
ALL DIAPHRAGM MATERIAL NOT EMBEDDED IN THE CONCRETE GIRDER SHALL BE PAID FOR AT THE UNIT PRICE BID FOR "STEEL DIAPHRAGMS B-17-368", EACH.

EACH DIAPHRAGM BETWEEN GIRDERS SHALL CONSTITUTE ONE UNIT.

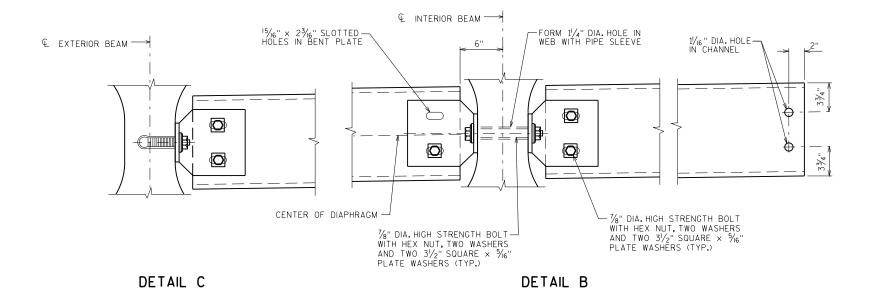
ALL DIAPHRAGM STRUCTURAL STEEL SHALL BE ASTM A709 GRADE 36.

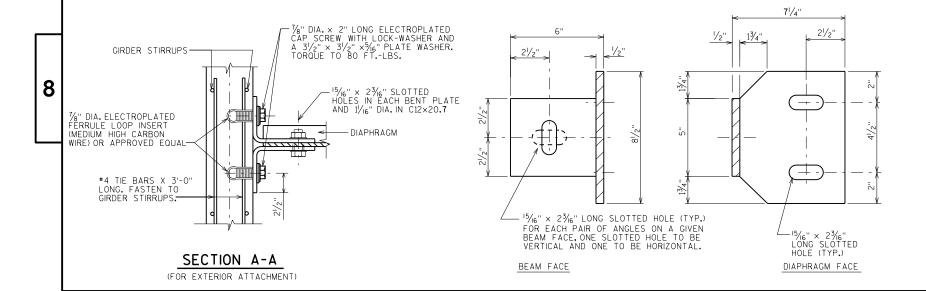
ALL DIAPHRAGM MATERIAL INCLUDING BOLTS, NUTS AND WASHERS SHALL BE GALVANIZED AFTER FABRICATION.

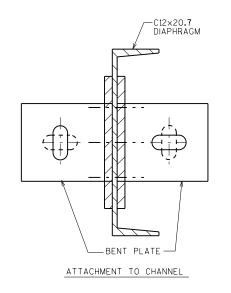
STEEL DIAPHRAGM TO CONCRETE WEB CONNECTION SHALL BE SNUG-TIGHT PLUS 1/4 TURN, UNLESS NOTED OTHERWISE. HIGH STRENGTH BOLTS FOR WEB CONNECTION SHALL MEET THE REQUIREMENTS FOR ASTM A325 OR ASTM A449.

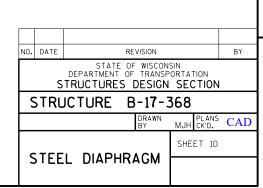


PART TRANSVERSE SECTION AT DIAPHRAGM



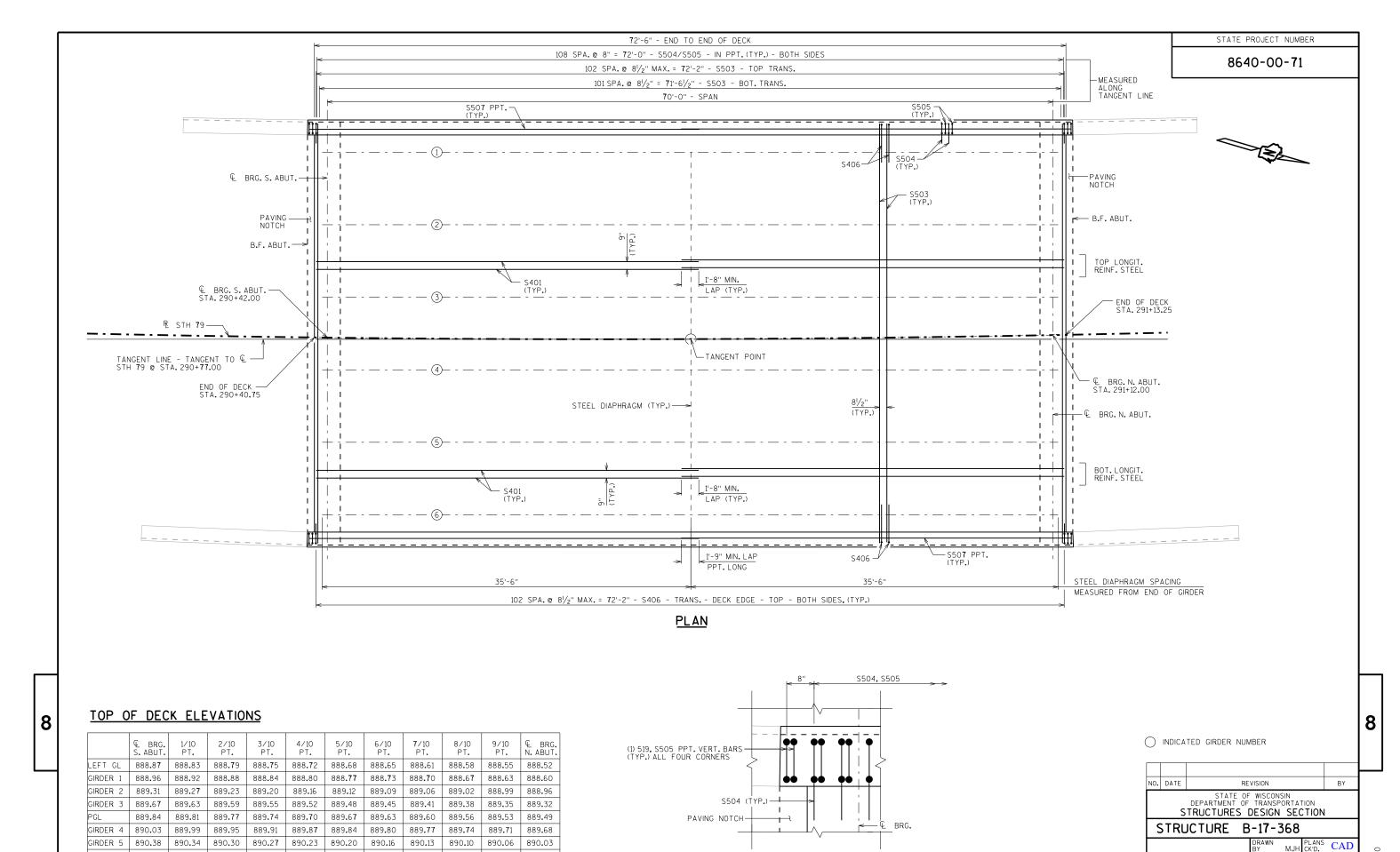






8

SCALE = 1.00



PARAPET CORNER REINFORCEMENT

GIRDER 6 890.**7**4

890**.7**0

890.66

RIGHT GL | 890.82 | 890.78 | 890.75 | 890.71 | 890.67 | 890.64 | 890.60 |

890.62

890.59

890.55

890.52

890.48

890.45

890.57 | 890.54 | 890.51 | 890.48

890.42

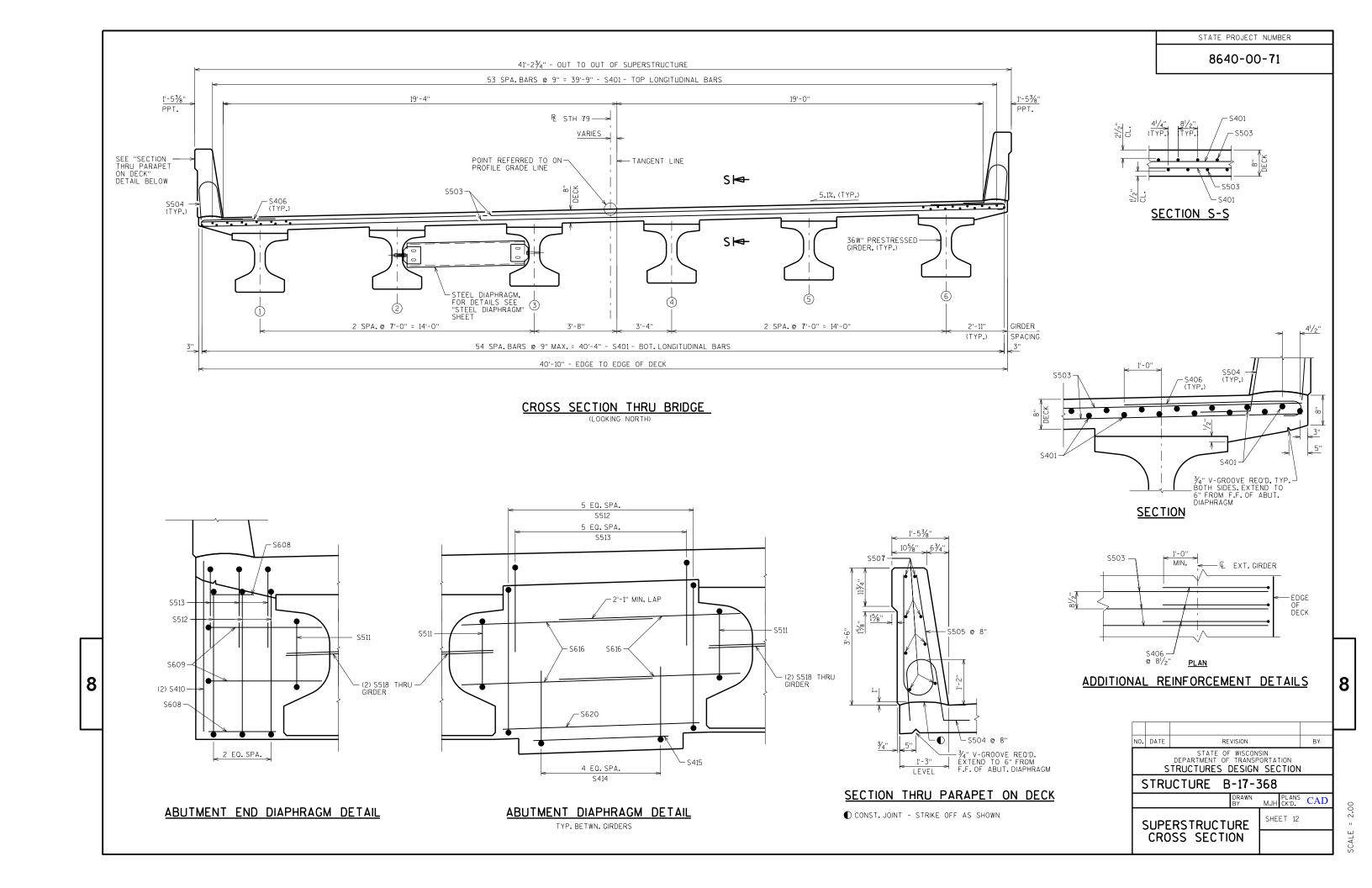
890.39

SCALE = 4.00

SHEET 11

SUPERSTRUCTURE

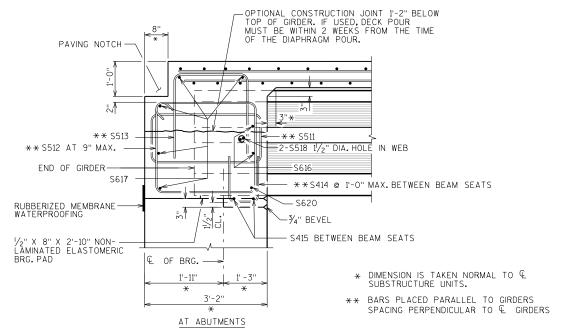
PLAN



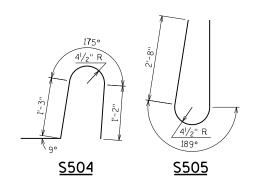
BILL OF BARS

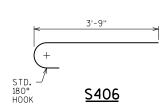
NOTE: THE FIRST OR FIRST TWO DIGITS OF THE BAR MARK SIGNIFIES THE BAR SIZE.

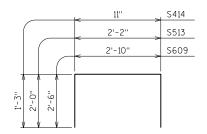
| BAR MARK | CO47 | NO. REQ'D. | LENGTH | SEN. | BAR SERIES | LOCATION |
|--------------|------|---------------|---------|------|---------------|---------------------------------------|
| S401 | Х | 218 | 36'-11" | | | DECK - LONG TOP & BOT. |
| NOT | | USED | | | | |
| S503 | Х | 205 | 40'-6" | | | DECK - TRANS TOP & BOT. |
| S504 | Х | 218 | 4'-5" | Х | | DECK/PARAPET - VERT. |
| S505 | Х | 222 | 6'-8" | Х | | PPT VERT. |
| S406 | Х | 206 | 4'-3" | Х | | DECK - TRANS DECK EDGE |
| S50 7 | Х | 32 | 37'-8" | | | PPT HORIZ. |
| S608 | Х | 4 | 1'-4'' | | | ABUT. DIAPH ENDS - HORIZ F.F. |
| S609 | Х | 8 | 7'-6" | Х | | ABUT. DIAPH ENDS - HORIZ. |
| S410 | Х | 8 | 3'-6" | | | ABUT. DIAPH ENDS - VERT. |
| S511 | Х | 24 | 9'-3" | Х | | ABUT. DIAPH VERT. |
| S512 | Х | 72 | 12'-2" | Х | | ABUT. DIAPH VERT. |
| S513 | Х | 7 2 | 5'-11" | Х | | ABUT. DIAPH VERT. |
| S414 | Х | 50 | 3'-3" | Х | | ABUT. DIAPH VERT BTWN. BEAM SEATS |
| S415 | Х | 20 | 3'-1" | | | ABUT. DIAPH HORIZ BTWN. BEAM SEATS |
| S616 | Х | 40 | 4'-2" | | | ABUT. DIAPH HORIZ F.F. |
| S617 | Х | 10 | 40'-4" | | | ABUT. DIAPH HORIZ B.F. & TOP |
| S518 | Х | 24 | 6'-0" | | | ABUT. DIAPH HORIZ THRU GIR. |
| S519 | Х | 4 | 5'-10'' | Х | | PPT VERT 1 EACH CORNER AT END OF DECK |
| S620 | Х | 10 | 4'-2" | | | ABUT. DIAPH BOT F.F. |



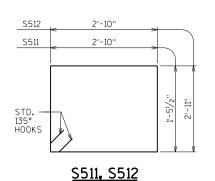
PART LONGIT. SECTION

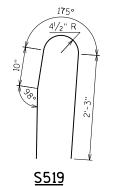






S609, S513, S414

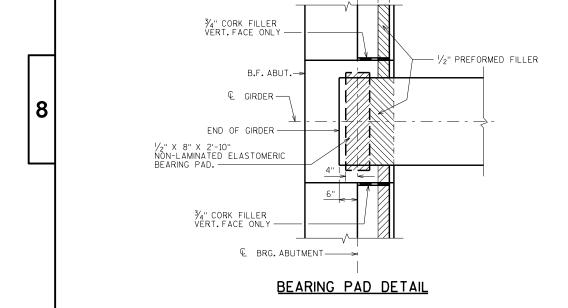


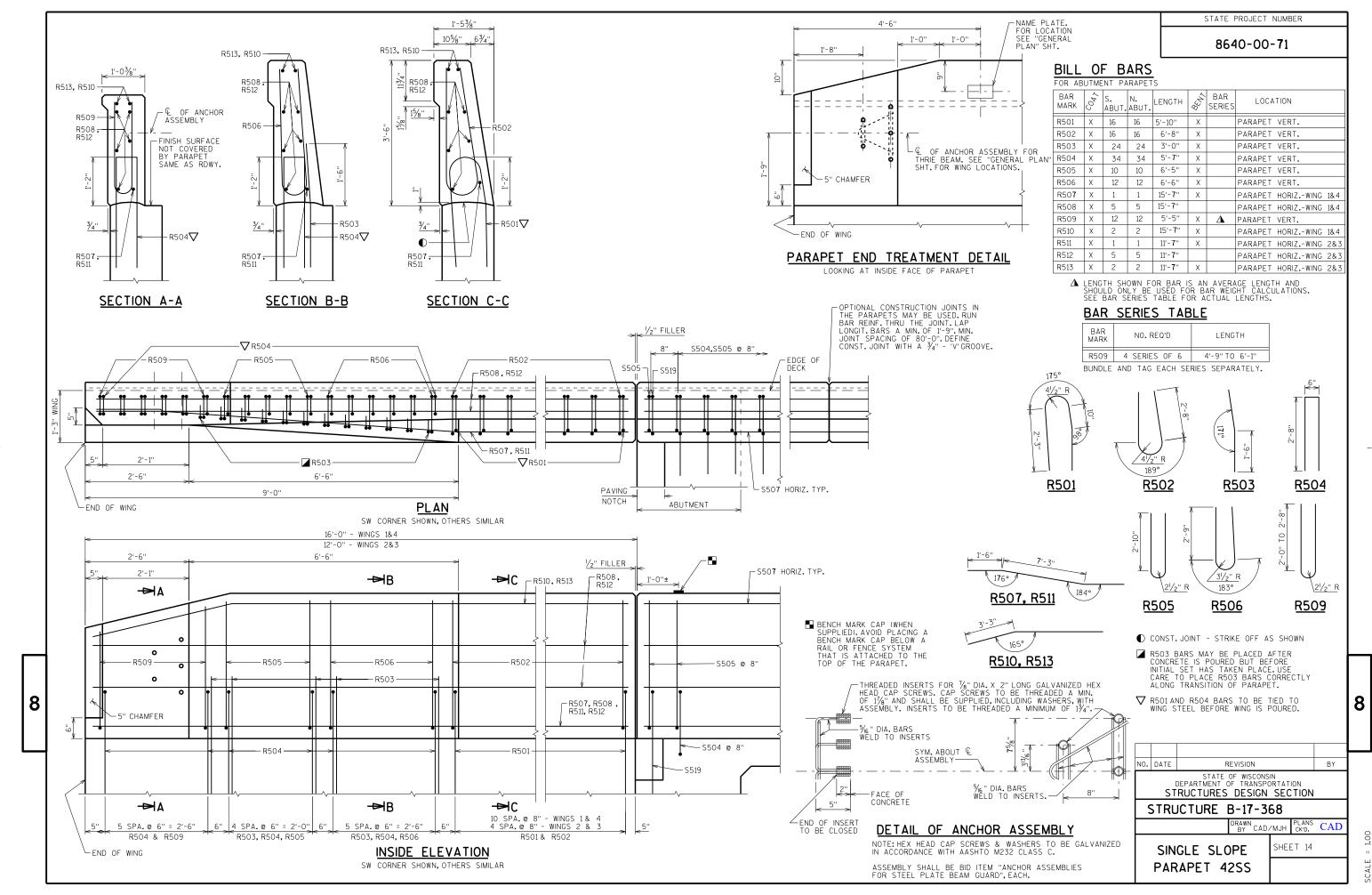


| NO. | | | | | | | | | | | |
|--------------------------|---|----------|-------|----------|--|--|--|--|--|--|--|
| | STATE OF WISCONSIN DEPARTMENT OF TRANSPORTATION STRUCTURES DESIGN SECTION | | | | | | | | | | |
| S | TRL | JCTURE B | -17-3 | 368 | | | | | | | |
| DRAWN BY MJH CK'D. CA | | | | | | | | | | | |
| 9 | SUPE | RSTRUCTI | JRE | SHEET 13 | | | | | | | |

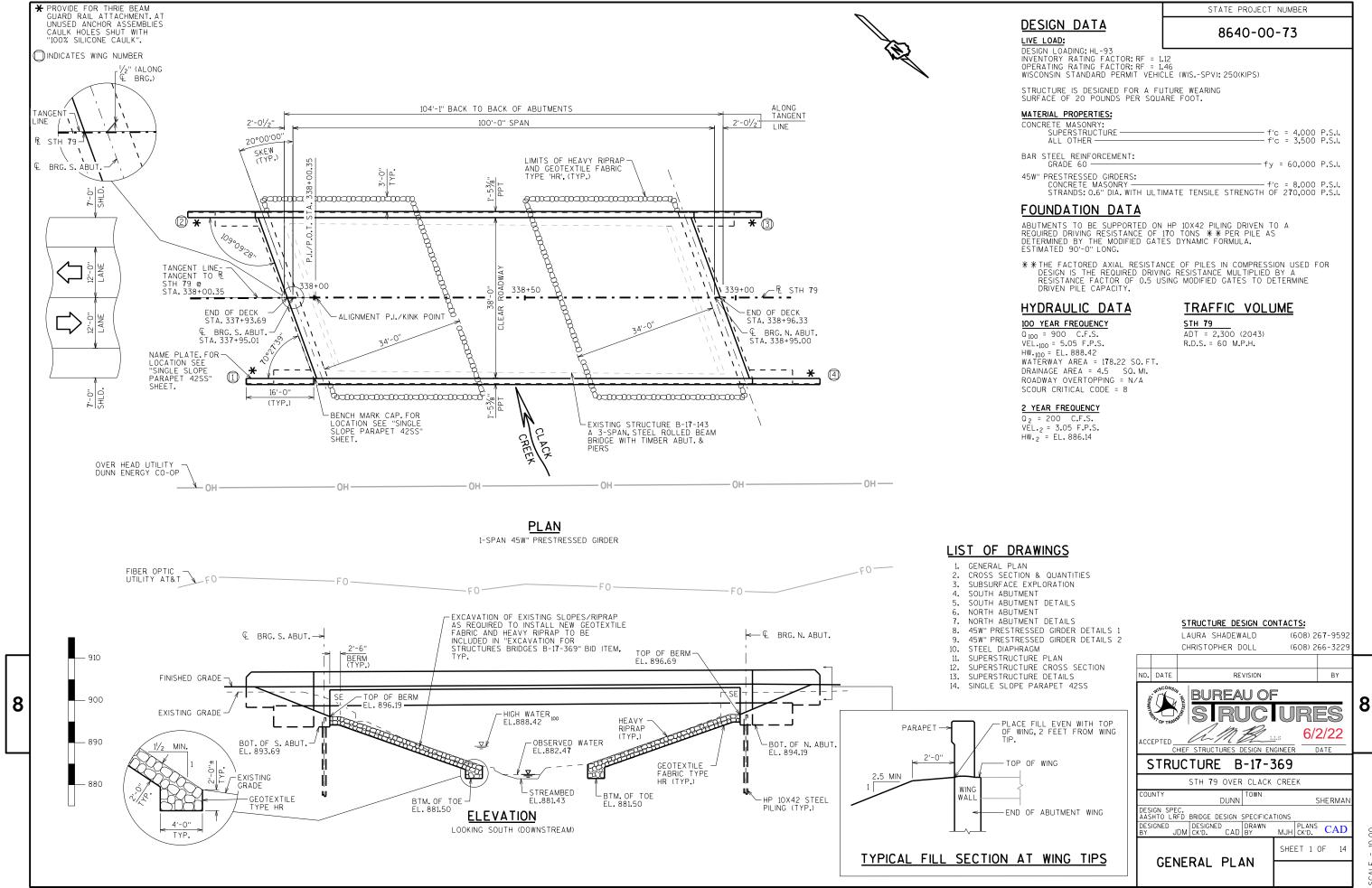
SUPERSTRUCTURE DETAILS

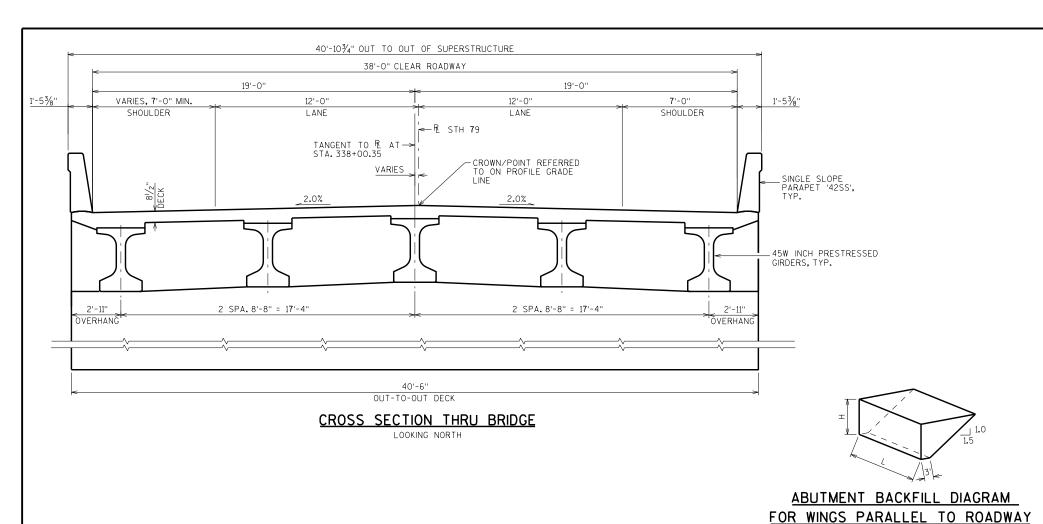
SCALE = 1.33





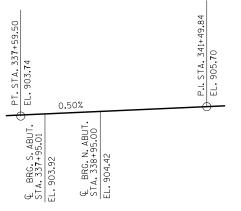
SCALE





TOTAL ESTIMATED QUANTITIES

| | BID ITEM NUMBER | BID ITEMS | UNIT | SUPER. | SOUTH ABUT. | NORTH ABUT. | TOTALS |
|-----|--------------------|--|------|---------------|----------------|----------------|-------------------|
| | 203.0260 | REMOVING STRUCTURE OVER WATERWAY MINIMAL DEBRIS B-17-143 | EACH | | | | 1 |
| | 206.1000 | EXCAVATION FOR STRUCTURES BRIDGES B-17-369 | LS | | | | 1 |
| | 210.1500 | BACKFILL STRUCTURE TYPE A | TON | | 282 | 282 | 564 |
| | 502.0100 | CONCRETE MASONRY BRIDGES | CY | 192 .7 | 49.5 | 49.5 | 292 |
| | 502.3200 | PROTECTIVE SURFACE TREATMENT | SY | 449 | | | 449 |
| | 502.3210 | PIGMENTED SURFACE SEALER | SY | 103 | 16 | 16 | 135 |
| | 503.0146 | PRESTRESSED GIRDER TYPE I 45W-INCH | LF | 505 | | | 505 |
| | 505.0400 | BAR STEEL REINFORCEMENT HS STRUCTURES | LB | | 2,520 | 2,520 | 5,040 |
| | 505.0600 | BAR STEEL REINFORCEMENT HS COATED STRUCTURES | LB | 31,430 | 2 ,7 90 | 2 ,7 90 | 37,010 |
| 8 I | 506.2605 | BEARING PADS ELASTOMERIC NON-LAMINATED | EACH | | 5 | 5 | 10 |
| ٦ | 506.4000 | STEEL DIAPHRAGMS B-17-369 | EACH | 8 | | | 8 |
| | 516.0500 | RUBBERIZED MEMBRANE WATERPROOFING | SY | | 12 | 12 | 24 |
| | 550.1100 | PILING STEEL HP 10-INCH X 42 LB | LF | | 990 | 990 | 1,980 |
| _ | 606.0300 | RIPRAP HEAVY | CY | | 145 | 145 | 290 |
| | 612.0406 | PIPE UNDERDRAIN WRAPPED 6-INCH | LF | | 100 | 100 | 200 |
| | 614.0150 | ANCHOR ASSEMBLIES FOR STEEL PLATE BEAM GUARD | EACH | | 2 | 2 | 4 |
| | 645.0111 | GEOTEXTILE TYPE DF SCHEDULE A | SY | | 34 | 34 | 68 |
| | 645.0120 | GEOTEXTILE TYPE HR | SY | | 229 | 229 | 458 |
| | | | | | | | |
| | | NON-BID ITEMS | | | | | |
| | | FILLER | SIZE | | | | 1/2", 3/4", 11/2" |
| | | | | | | | |



= OUT TO OUT OF ABUTMENT, INCLUDING WINGS (FT)
= AVERAGE ABUTMENT FILL HEIGHT (FT)
= EXPANSION FACTOR (1.20 FOR CY BID ITEMS AND 1.00 FOR TON BID ITEMS)

 $V_{CF} = (L)(3.0)(H) + (L)(0.5)(1.5H)(H)$ $V_{CY} = V_{CF}(EF)/27$ $V_{TON} = V_{CY}(2.0)$

EF

PROFILE GRADE LINE - STH 79

GENERAL NOTES

8640-00-73

STATE PROJECT NUMBER

DRAWINGS SHALL NOT BE SCALED.

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

THE FIRST OR FIRST TWO DIGITS OF THE BAR MARK SIGNIFIES THE BAR SIZE.

BEVEL EXPOSED EDGES OF CONCRETE 3/4" UNLESS OTHERWISE NOTED.

THE UPPER LIMITS OF "EXCAVATION FOR STRUCTURES BRIDGES B-17-369" SHALL BE THE

AT THE BACK FACE OF ABUTMENT ALL VOLUME WHICH CANNOT BE PLACED BEFORE ABUTMENT CONSTRUCTION AND IS NOT OCCUPIED BY THE NEW STRUCTURE SHALL BE BACKFILLED WITH STRUCTURE BACKFILL 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.

THE QUANTITY FOR BACKFILL STRUCTURE IS CALCULATED BASED ON THE DETAIL SHOWN IN

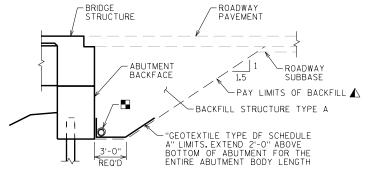
ELASTOMERIC BEARING PADS NEED NOT BE INDIVIDUALLY MOLDED PROVIDED THE CUT EDGES

PROTECTIVE SURFACE TREATMENT TO BE APPLIED TO THE ENTIRE EXPOSED TOP OF DECK SURFACE AND THE VERTICAL AND HORIZONTAL SURFACES OF THE PAVING NOTCHES AT ABUTMENT DIAPHRAGMS.

PIGMENTED PROTECTIVE SURFACE SEALER TO BE APPLIED TO THE FRONT FACE AND THE TOP OF THE PARAPETS, INCLUDING PARAPETS ON WINGS.

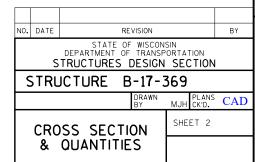
THE SLOPE OF THE FILL IN FRONT OF THE ABUTMENTS SHALL BE COVERED WITH HEAVY RIPRAP AND GEOTEXTILE TYPE "HR" TO THE EXTENT SHOWN IN PLANS.

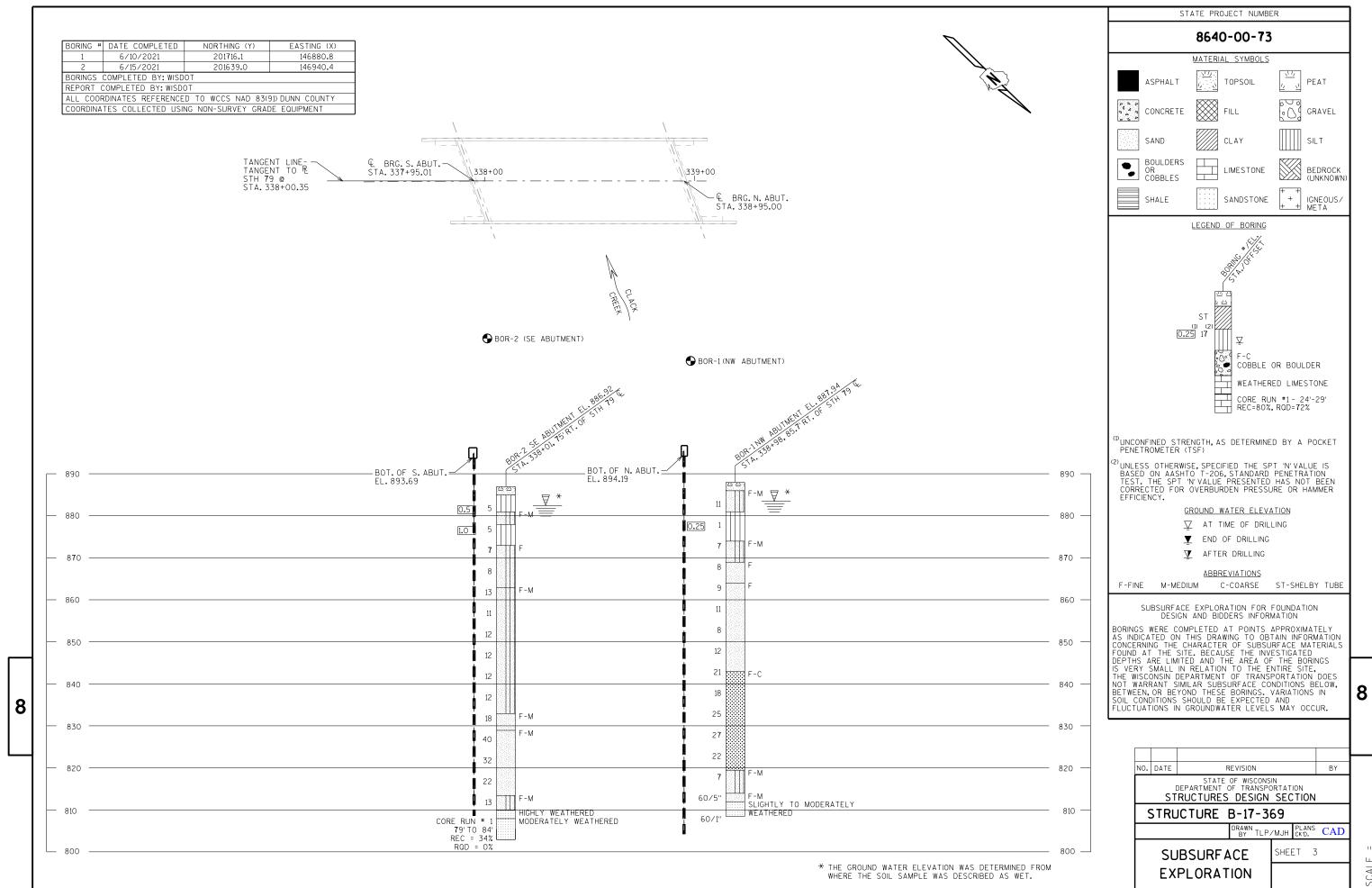
THE HAUNCH CONCRETE QUANTITY IS BASED ON THE AVERAGE HAUNCH SHOWN ON THE "45W" PRESTRESSED GIRDER DETAILS 2" SHEET.



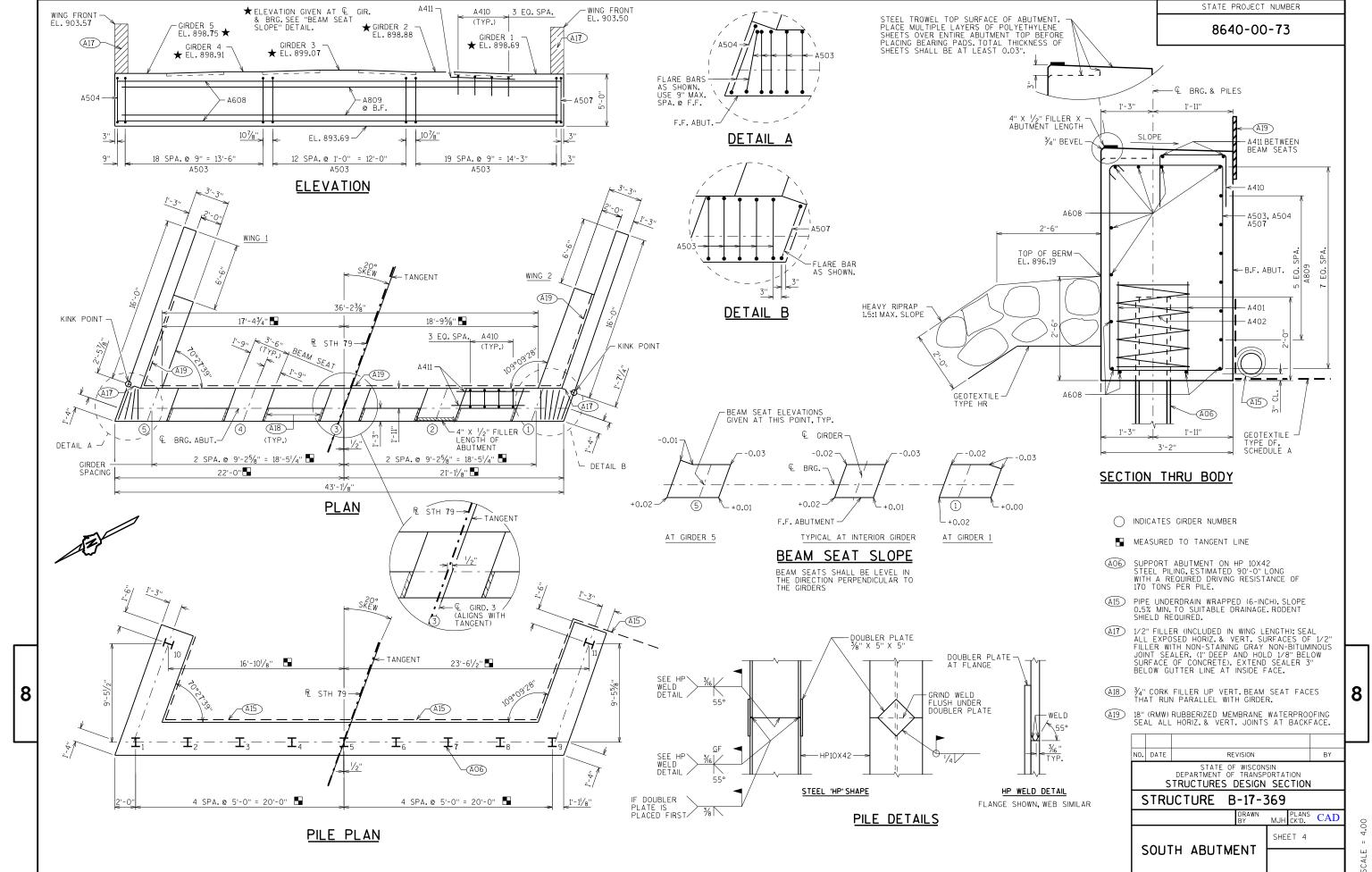
TYPICAL SECTION THRU ABUTMENT

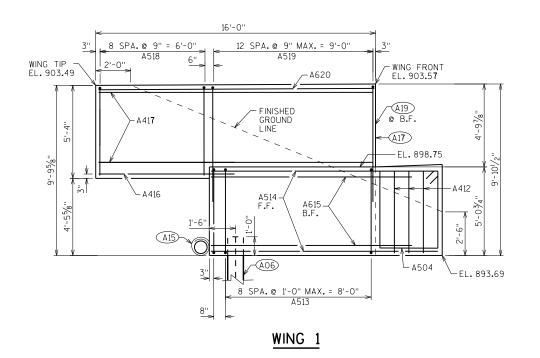
- ⚠ BACKFILL PAY LIMITS. BACKFILL BEYOND BACKFILL PAY LIMITS SHALL BE INCIDENTAL TO EXCAVATION FOR STRUCTURES, LIMITS OF EXCAVATION SHALL BE DETERMINED BY THE CONTRACTOR.
- PIPE UNDERDRAIN WRAPPED (6 INCH). SLOPE 0.5% MIN. TO SUITABLE DRAINAGE, ATTACH RODENT SHIELD AT ENDS OF PIPE UNDERDRAIN. SEE RODENT SHIELD DETAIL ON ABUT, DETAIL SHTS.

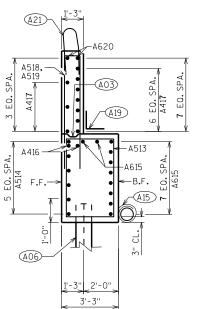




SCALE

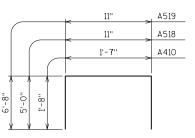






WING 1 SECTION

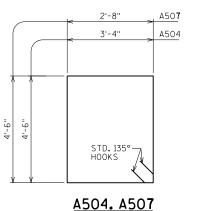




A410, A518, A519

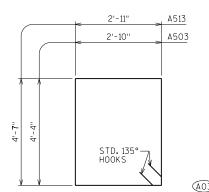
BILL OF BARS

| BAR MARK | CO47 | NO. REQ'D. | LENGTH | SEN, | BAR SERIES | LOCATION |
|-------------|------|---------------|------------------|------|---------------|--|
| A401 | | 18 | 2'-3" | | | BODY PILES - 2 PER BODY PILE |
| A402 | | 9 | 28'-0" | Х | | BODY PILES - 1 PER BODY PILE |
| A503 | | 52 | 15'-0" | Х | | BODY-STIRRUPS |
| A504 | | 1 | 16'-4" | Х | | BODY-STIRRUPS |
| A505 | | NOT | USED | | | |
| A506 | | NOT | USED | | | |
| A507 | | 1 | 15'-0" | Х | | BODY-STIRRUPS |
| A608 | | 11 | 42'-9" | | | BODY - HORIZ B.F MIDDLE |
| A809 | | 6 | 42'- 7 '' | | | BODY - HORIZ B.F. |
| A410 | | 16 | 4'-8'' | Х | | BODY - VERT TOP - BTWN. BEAM SEATS |
| A411 | | 8 | 7'-0" | | | BODY - HORIZ TOP - BTWN. BEAM SEATS |
| A412 | Х | 5 | 4'-7'' | | | WINGS 1 & 2 - VERT END OF ABUTMENTS - F.F. |
| A513 | Х | 20 | 15'-8'' | Х | | WINGS 1 & 2 - STIRRUP - LOWER WING |
| A514 | Х | 6 | 13'-0" | | | WING 1 - HORIZ F.F LOWER WING |
| A615 | Х | 20 | 11'-7'' | | | WINGS 1 & 2 - HORIZ B.F LOWER WING |
| A416 | Х | 4 | 7'-9" | | | WINGS 1 & 2 - HORIZ BOT - UPPER WING |
| A417 | Х | 20 | 15'-8" | | | WINGS 1 & 2 - HORIZ UPPER WING |
| A518 | Х | 18 | 10'-8" | Х | | WINGS 1& 2 - VERT UPPER WING |
| A519 | Х | 26 | 14'-0'' | Х | | WINGS 1 & 2 - VERT UPPER WING |
| A620 | Х | 4 | 15'-8" | | | WINGS 1 & 2 - HORIZ UPPER WING - TOP |
| A521 | Х | 6 | 12'-1" | | | WING 2 - HORIZ F.F LOWER WING |



6" NOMINAL

3/8" MAX.

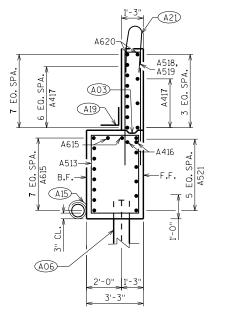


A503. A513

- OPTIONAL CONST. JOINT: KEYWAY FORMED BY BEVELED 2 × 6. (18" RMW @ B.F. & 3/4" "V" GROOVE @ F.F.IF JOINT IS USED).
- SUPPORT ABUTMENT ON HP 10X42 STEEL PILING, ESTIMATED 90'-0" LONG WITH A REQUIRED DRIVING RESISTANCE OF 170 TONS PER PILE. (A06)
- (A15) PIPE UNDERDRAIN WRAPPED (6-INCH), SLOPE 0.5% MIN. TO SUITABLE DRAINAGE, RODENT SHIELD REQUIRED.
- 1/2" FILLER (INCLUDED IN WING LENGTH): SEAL ALL EXPOSED HORIZ. & VERT. SURFACES OF 1/2" FILLER WITH NON-STAINING GRAY NON-BITUMINOUS JOINT SEALER. (1" DEEP AND HOLD 1/8" BELOW SURFACE OF CONCRETE). EXTEND SEALER 3" BELOW GUTTER LINE AT INSIDE FACE.
 - 18" (RMW) RUBBERIZED MEMBRANE WATERPROOFING SEAL ALL HORIZ. & VERT. JOINTS AT BACKFACE.
- FOR PARAPET BARS AND DIMENSIONS, SEE "SINGLE SLOPE PARAPET 42SS" SHT.



16'-0" 12 SPA.@ 9" MAX. = 9'-0" 8 SPA.@ 9" = 6'-0" WING FRONT EL. 903.50 _6" - WING TIP EL. 903.42 A620 (A19)-FINISHED-@ B.F. GROUND LINE (A17)-EL. 898.69 A412 A507 A615 B.F. (A06)-EL. 893.69-8 SPA.@ 1'-0" MAX. = 8'-0" WING 2



WING 2 SECTION

RODENT SHIELD DETAIL

 $\mathbf{v} \mathbf{v} \mathbf{v} \mathbf{v} \mathbf{v} \mathbf{v} \mathbf{v} \mathbf{v}$

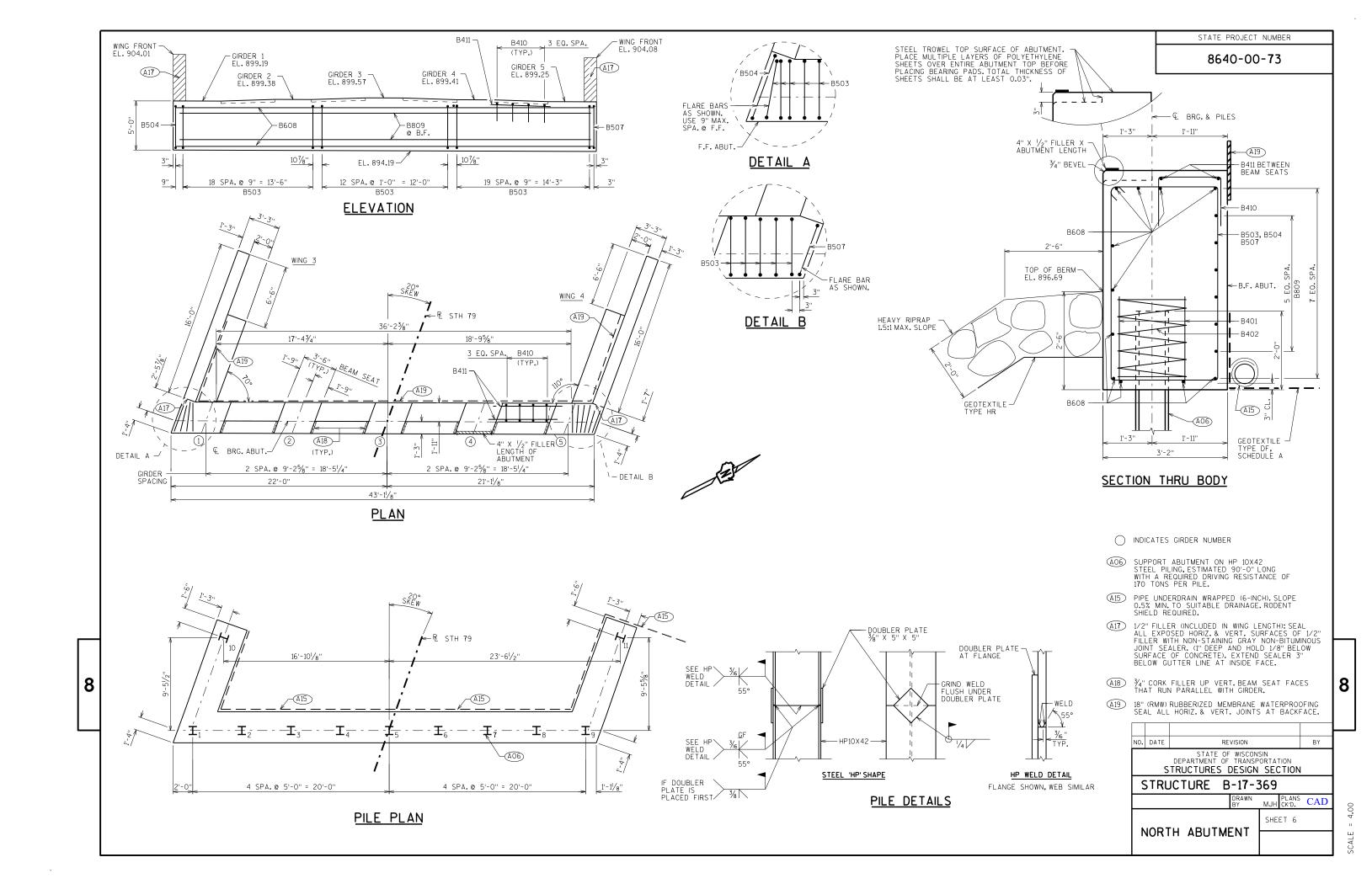
SECTION

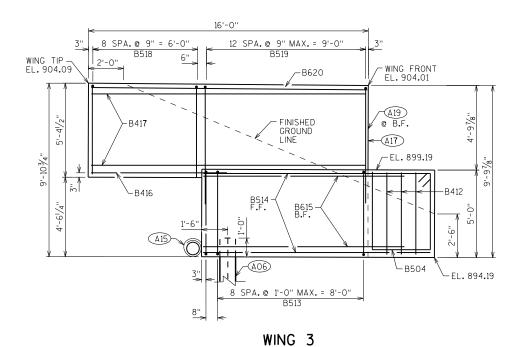
DIMENSIONS ARE APPROXIMATE. THE GRATE IS SIZED TO FIT INTO A PIPE COUPLING. ORIENT SO SLOTS ARE VERTICAL.

THE RODENT SHIELD, PIPE COUPLING AND SCREWS SHALL BE CONSIDERED INCIDENTAL TO THE BID ITEM "PIPE UNDERDRAIN WRAPPED 6-INCH".

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 ATTACHMENT OF THIS SHIELD TO THE EXPOSED END OF THE PIPE UNDERDRAIN. THE SHIELD SHALL BE FASTENED TO THE PIPE COUPLING WITH TWO OR MORE NO. 10 X 1-INCH STAINLESS STEEL SHEET METAL SCREWS.

8





16'-0"

8 SPA.@ 9" = 6'-0"

B518

- WING TIP EL. 904.16

12 SPA. @ 9" MAX. = 9'-0"

GROUND

LINE

B521 F.F. B615 B.F.

8 SPA.@ 1'-0" MAX. = 8'-0"

WING 4

B513

-B620

(A06)-

WING FRONT

EL. 899.25-

B412

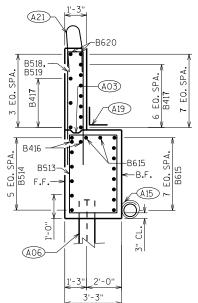
EL. 894.19

103/4

△19 ⊚ B.F.

(A17)-

EL. 904.08



WING 3 SECTION

B620

(A03

3'-3"

WING 4 SECTION

(A19)

B615

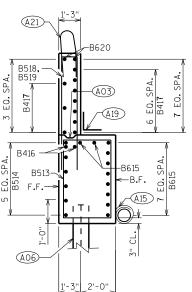
B513-

(A15)

(A06)-

B518, B519

-B416



B410, B518, B519

1'-7"

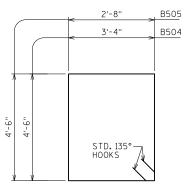
B402

B519

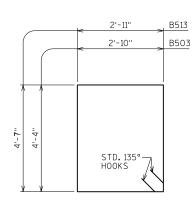
B518

B410

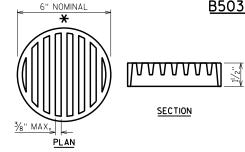
5 WRAP SPIRAL



B504. B507



B503. B513



RODENT SHIELD DETAIL

 \bigstar dimensions are approximate.The grate is sized to fit into a pipe coupling.ORIENT SO SLOTS are vertical.

THE RODENT SHIELD, PIPE COUPLING AND SCREWS SHALL BE CONSIDERED INCIDENTAL TO THE BID ITEM "PIPE UNDERDRAIN WRAPPED 6-INCH".

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 ATTACHMENT OF THIS SHIELD TO THE EXPOSED END OF THE PIPE UNDERDRAIN. THE SHIELD SHALL BE FASTENED TO THE PIPE COUPLING WITH TWO OR MORE NO.10 X 1-INCH STAINLESS STEEL SHEET METAL SCREWS.

BILL OF BARS

| BAR MARK | C047 | NO. REQ'D. | LENGTH | TA SE | BAR SERIES | LOCATION |
|-------------|------|---------------|---------|-------|---------------|---|
| B401 | | 18 | 2'-3" | | | BODY PILES - 2 PER BODY PILE |
| B402 | | 9 | 28'-0" | Х | | BODY PILES - 1 PER BODY PILE |
| B503 | | 52 | 15'-0'' | Х | | BODY-STIRRUPS |
| B504 | | 1 | 16'-4'' | Х | | BODY-STIRRUPS |
| B505 | | NOT | USED | | | |
| B506 | | NOT | USED | | | |
| B507 | | 1 | 15'-0" | Х | | BODY-STIRRUPS |
| B608 | | 11 | 42'-9" | | | BODY - HORIZ B.F MIDDLE |
| B809 | | 6 | 42'-7" | | | BODY - HORIZ B.F. |
| B410 | | 16 | 4'-8'' | Х | | BODY - VERT TOP - BTWN. BEAM SEATS |
| B411 | | 8 | 7'-0" | | | BODY - HORIZ TOP - BTWN. BEAM SEATS |
| B412 | Х | 5 | 4'-7'' | | | WINGS 3 & 4 - VERT END OF ABUTMENTS - F.F |
| B513 | Х | 20 | 15'-8" | Х | | WINGS 3 & 4 - STIRRUP - LOWER WING |
| B514 | Х | 6 | 13'-0" | | | WING 3 - HORIZ F.F LOWER WING |
| B615 | Х | 20 | 11'-7'' | | | WINGS 3 & 4 - HORIZ B.F LOWER WING |
| B416 | Х | 4 | 7'-9" | | | WINGS 3 & 4 - HORIZ BOT - UPPER WING |
| B417 | Х | 20 | 15'-8" | | | WINGS 3 & 4 - HORIZ UPPER WING |
| B518 | Х | 18 | 10'-10" | Х | | WINGS 3 & 4 - VERT UPPER WING |
| B519 | Х | 26 | 14'-0" | Х | | WINGS 3 & 4 - VERT UPPER WING |
| B620 | Х | 4 | 15'-8" | | | WINGS 3 & 4 - HORIZ UPPER WING - TOP |
| B521 | Х | 6 | 12'-1" | | | WING 4 - HORIZ F.F LOWER WING |

- OPTIONAL CONST. JOINT: KEYWAY FORMED BY BEVELED 2 × 6. (18" RMW @ B.F. & 3/4" "V" GROOVE @ F.F.IF JOINT IS USED).
- SUPPORT ABUTMENT ON HP 10X42 STEEL PILING, ESTIMATED 90'-0" LONG WITH A REQUIRED DRIVING RESISTANCE OF 170 TONS PER PILE. (A06)
- (A15) PIPE UNDERDRAIN WRAPPED (6-INCH), SLOPE 0.5% MIN. TO SUITABLE DRAINAGE. RODENT SHIELD REQUIRED.
- 1/2" FILLER (INCLUDED IN WING LENGTH): SEAL ALL EXPOSED HORIZ. & VERT. SURFACES OF 1/2" FILLER WITH NON-STAINING GRAY NON-BITUMINOUS JOINT SEALER. (1" DEEP AND HOLD 1/8" BELOW SURFACE OF CONCRETE). EXTEND SEALER 3" BELOW GUTTER LINE AT INSIDE FACE.
- (A19) 18" (RMW) RUBBERIZED MEMBRANE WATERPROOFING SEAL ALL HORIZ. & VERT. JOINTS AT BACKFACE.
- (A21) FOR PARAPET BARS AND DIMENSIONS, SEE "SINGLE SLOPE PARAPET 42SS" SHT.



8



<u>NOTES</u>

TOP OF GIRDER TO BE ROUGH FLOATED AND BROOMED TRANSVERSELY, EXCEPT THE OUTSIDE 8" OF GIRDER, WHICH SHALL RECEIVE A SMOOTH FINISH, AN APPROVED CONCRETE SEALER SHALL BE APPLIED TO ALL SMOOTH SURFACES INCLUDING THE OUTSIDE 8" OF THE TOP FLANGE.

DO NOT APPLY CONCRETE SEALER OR EPOXY TO SURFACES RECEIVING APPLICATION OF CONCRETE STAINING.

THE GIRDERS SHALL BE PROVIDED WITH A SUITABLE LIFTING DEVICE FOR HANDLING AND ERECTING THE GIRDERS. SEE SECT. 503.3.4 OF STANDARD SPECIFICATIONS FOR GUIDANCE.

STRANDS SHALL BE FLUSH WITH END OF GIRDER. FOR GIRDER ENDS EMBEDDED COMPLETELY IN CONCRETE, END OF STRANDS SHALL BE COATED WITH NON-BITUMINOUS JOINT SEALER. FOR GIRDER ENDS THAT ARE FINALLY EXPOSED, COAT THE GIRDER ENDS, EXPOSED STRAND ENDS AND ALL NON-BONDING SURFACES WITHIN 2 FEET OF THE GIRDER ENDS WITH A NON-PICMENTED EPOXY CONFORMING TO AASHTO M-235 TYPE III, CLASS B OR C. THE EPOXY SHALL BE APPLIED AT LEAST 3 DAYS AFTER MOIST CURING HAS CEASED AND PRIOR TO THE APPLICATION OF THE SEALER.

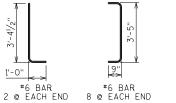
ALL GIRDERS SHALL BE CAST FULL LENGTH AS SHOWN.

SPACING SHOWN FOR #4 STIRRUPS IS FOR GRADE 60

AN EQUIVALENT OF WELDED WIRE FABRIC (WWF) ASTM A1064 MAY BE SUBSTITUTED FOR THE STIRRUP REINFORCEMENT SHOWN, UPON APPROVAL OF THE STRUCTURES MAINTENANCE SECTION, IF USED, WWF SUBSTITUTION DETAILS SHALL BE SUBMITTED ELECTRONICALLY TO THE WISDOT FABRICATION LIBRARY AND ACCEPTED PRIOR TO SHOP DRAWING SUBMITTAL.

PRESTRESSING STRANDS SHALL BE (0.6" DIA.)-7 WIRE LOW-RELAXATION STRANDS WITH AN ULTIMATE STRENGTH OF

FOR DIAPHRAGM INSERT & CONNECTION DETAILS SEE "STEEL DIAPHRAGM" SHEET.



1@ EACH END

71/2"

1'-10" #3 BAR

3 @ EACH END (EPOXY COATED)

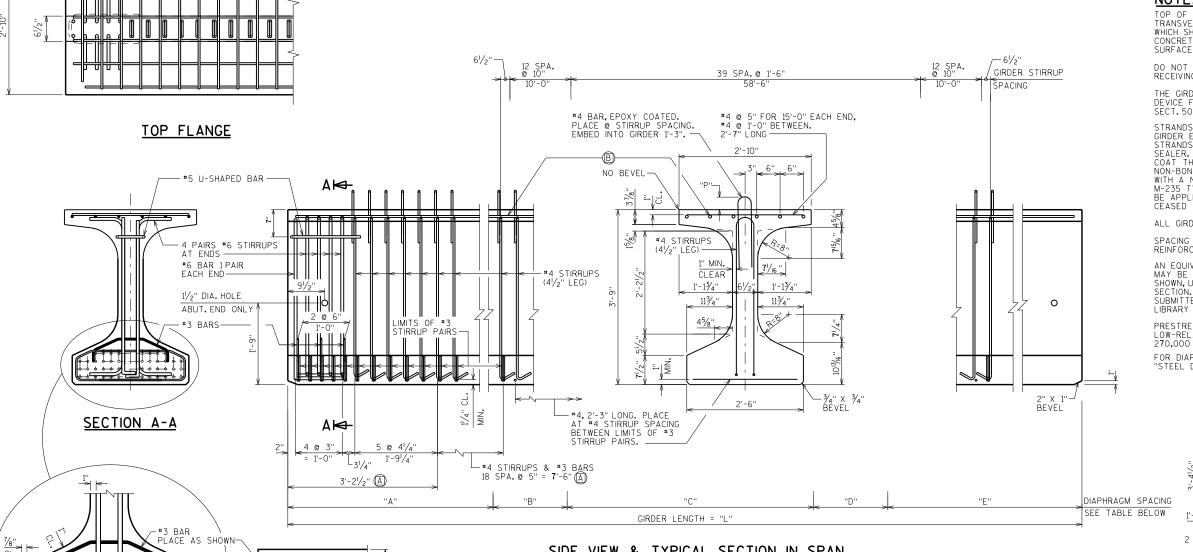
#3 BAR 29 PAIRS EACH END (EPOXY COATED)

NO. DATE BY REVISION STATE OF WISCONSIN DEPARTMENT OF TRANSPORTATION STRUCTURES DESIGN SECTION

STRUCTURE B-17-369

MJH CK'D. CAD SHEET 8

45W" PRESTRESSED **GIRDER** DETAILS 1



SIDE VIEW & TYPICAL SECTION IN SPAN

- (A) DETAIL TYP. AT EACH END
- (B) 6 #4 BARS, FULL LENGTH, MIN. LAP = 1'-11"

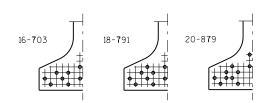
STEEL DIAPHRAGM SPACING

| | "A" | "B" | "C" | "D" | "E" | |
|---------------|--------|-----------|-----------|-----------|-----------|----------------------|
| GIRDER 1(W.) | 35'-3" | 0" | 33'-8" | 0'' | 32'-1" | INSERTS IN EAST FACE |
| GIRDERS 2-4 | 32'-1" | 3'-17/8'' | 30'-61/8" | 3'-17/8'' | 32'-11/8" | |
| GIRDER 5 (E.) | 32'-1" | 0'' | 33'-8" | 0'' | 35'-3" | INSERTS IN WEST FACE |

BOTTOM FLANGE

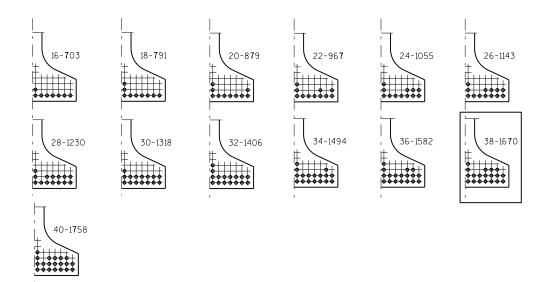
| | | | | | | | | | | | | GIRE | DER [| ΑΤΑ | | | | | | | | | |
|-----|--------|--------|------------------|------------------------------|------|--------------|-------|--------|--------------|---------------|------|-------|------------------|-------------------------|-------------------------|-----------------|---------------------------|----------------------------------|-----|-------------|-------------|-----|--|
| | | GIRDER | GIRDER LENGTH | | | DE | AD LC | DAD DE | EFL. (IN.) | | | | CONC. STRGTH. | 1C T 1/ | "P" (IN. | | DIA. OF | TOTAL | | D PA | TTERN | | |
| PAN | GIRDER | (FEET) | 1/10 | ² / ₁₀ | 3/10 | ⁴ ⁄10 | 5/10 | %10 | 7 /10 | ₁₀ | 9/10 | f'c | 0F | MID 1/3 OF GIRDER | END 1/3 OF GIRDER | STRAND (IN.) | TOTAL NO.OF STRANDS | f'ci (P.S.I.) X | "A" | "B" MIN. | "B" MAX. | "C" | |
| 1 | 1-5 | 101 | 0.7 | 1.3 | 1.8 | 2.1 | 2.3 | 2.1 | 1.8 | 1.3 | 0.7 | 8,000 | 8 | 7 | 8 | 0.6 | 38 | 6,800 | 40 | 13.75 | 16.75 | 5 | |

* MINIMUM CYLINDER STRENGTH OF CONCRETE @ TIME OF TRANSFER OF PRESTRESS FORCE.



STANDARD ARRANGEMENTS TO RAISE CENTER OF GRAVITY TO AVOID DRAPING OF STRANDS

0.6" DIA. STRANDS



ARRANGEMENT AT & SPAN - FOR GIRDERS WITH DRAPED STRANDS 0.6" DIA. STRANDS

ALL PATTERNS
ARE SYM. ABOUT
GIRDER

TOTAL NO.
OF STRANDS

OO - OOO

TOTAL INITIAL
PRESTRESS
FORCE IN KIPS

13 SPA. @ 2"

2"

13 SPA. @ 2"

2"

TYP. STRAND PATTERN

TIE BAR DECK THICKNESS ** EXT. GIR. INT. GIR.

DECK HAUNCH DETAIL

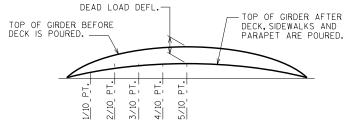
IF 1/4" MINIMUM HAUNCH HEIGHT AT EDGE OF GIRDER CANNOT BE MAINTAINED, THE GRADE LINE MAY BE REVISED BY THE ENGINEER AT THE OPTION OF THE CONTRACTOR, THE PLAN DECK THICKNESS SHALL BE HELD. NOTIFY THE STRUCTURES SECTION IF THE GRADE LINE IS RAISED FROM THE PLAN PROFILE BY MORE THAN 1/2" OR,

** IF 3" MINIMUM DECK EMBEDMENT OF TIE BAR CANNOT BE OBTAINED.

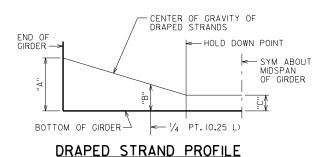
TO DETERMINE 'T', ELEV. OF TOP OF GIR'S. AT $\widehat{\mathbb{Q}}$ OF SUBSTRUCTURE UNITS & AT 1/10 POINTS OF EACH SPAN SHALL BE TAKEN. THEN FOLLOW THIS PROCESS:

TOP OF DECK ELEV. AT FINAL GRADE
- TOP OF GIRDER ELEVATION
+ DEAD LOAD DEFLECTION
- DECK THICKNESS
= HAUNCH HEIGHT 'T'

NOTE: AN AVERAGE HAUNCH ('T') OF 3.3" WAS USED IN THE QUANTITY "CONCRETE MASONRY BRIDGES".



DEAD LOAD DEFLECTION DIAGRAM



*THE THEORETICAL INITIAL CAMBER VALUE AT THE TIME OF STRAND RELEASE AT MIDSPAN MULTIPLIED BY A FACTOR OF 1.4 TO ACCOUNT FOR CAMBER GROWTH FROM THE TIME OF STRAND RELEASE TO JOBSITE PLACEMENT.

| CDAN | CAMBER | /INL V V |
|--------|---------|--------------------|
| SPAN | CAMBER | (IN.) x |
| 1 | 4.2 | |
| | | |
| | | |
| | | |
| | | |
| | | |
| 105 11 | . T. D. | |

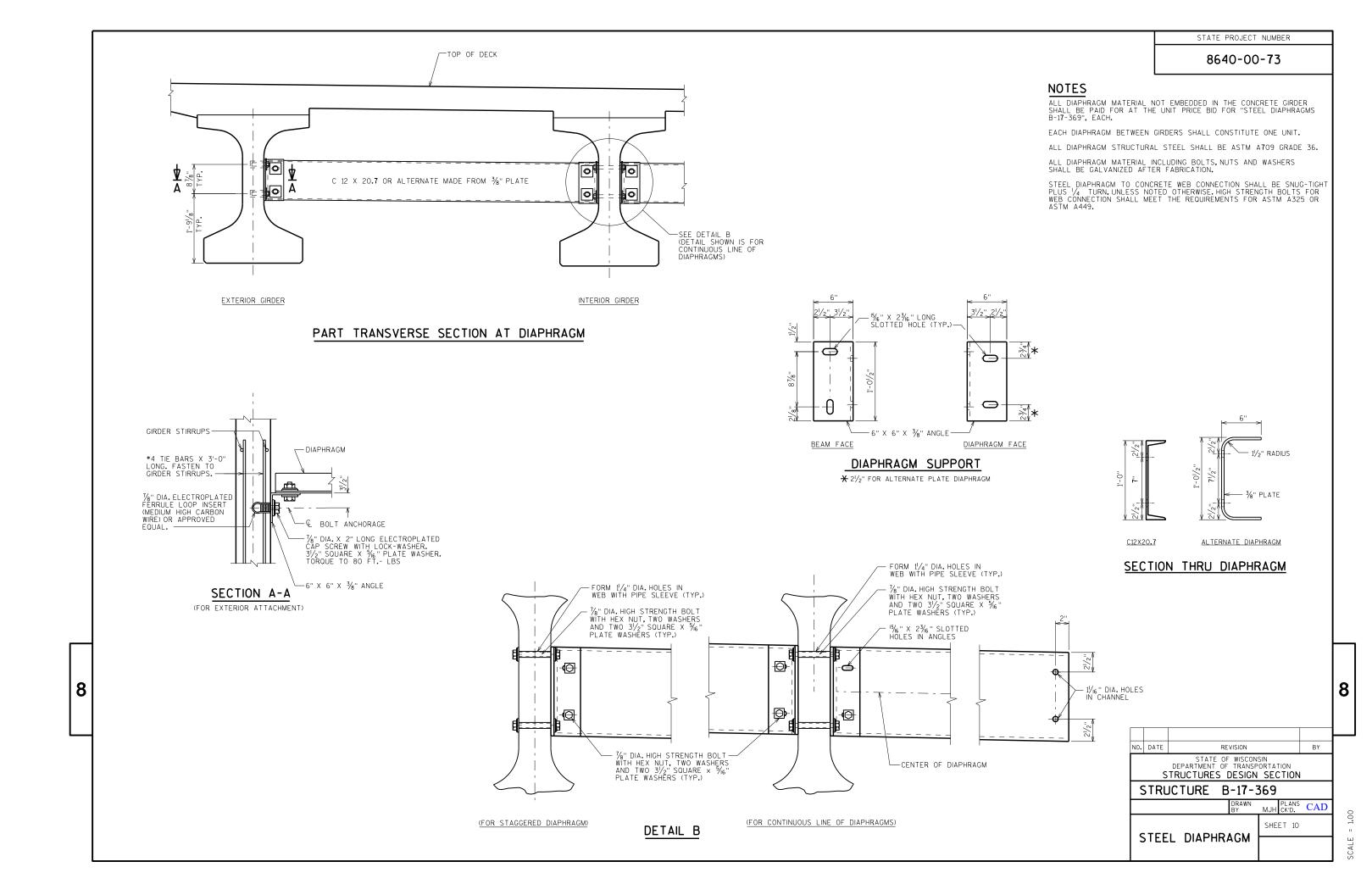
THESE VALUES ARE NOT TO BE USED IN DETERMINING 'T', USE ACTUAL GIRDER SHOTS.

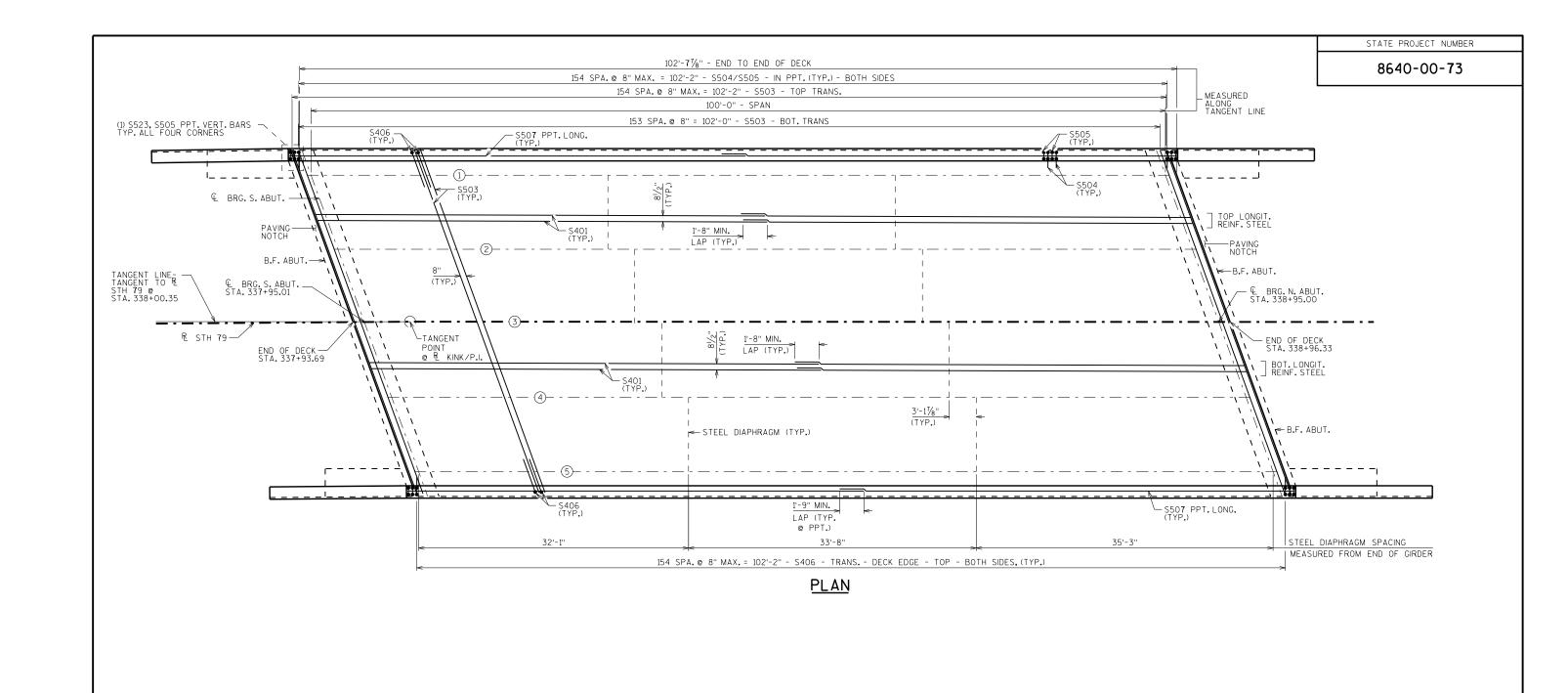
THESE VALUES ARE FOR INFORMATIONAL PURPOSES ONLY.

| NO. | DATE | | REVI | ISION | | | BY | | | | | |
|-----|---|--------------------|------|-------|--|--|----|--|--|--|--|--|
| | STATE OF WISCONSIN DEPARTMENT OF TRANSPORTATION STRUCTURES DESIGN SECTION | | | | | | | | | | | |
| () | STRUCTURE B-17-369 | | | | | | | | | | | |
| | DRAWN PLANS BY MJH CK'D. | | | | | | | | | | | |
| 4 | 45W" PRESTRESSED SHEET 9 | | | | | | | | | | | |
| | | GIRDER ETAILS : | 2 | | | | | | | | | |

8

SCALE = 1.00

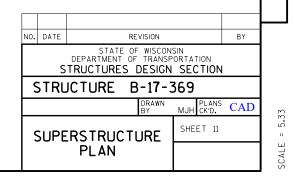


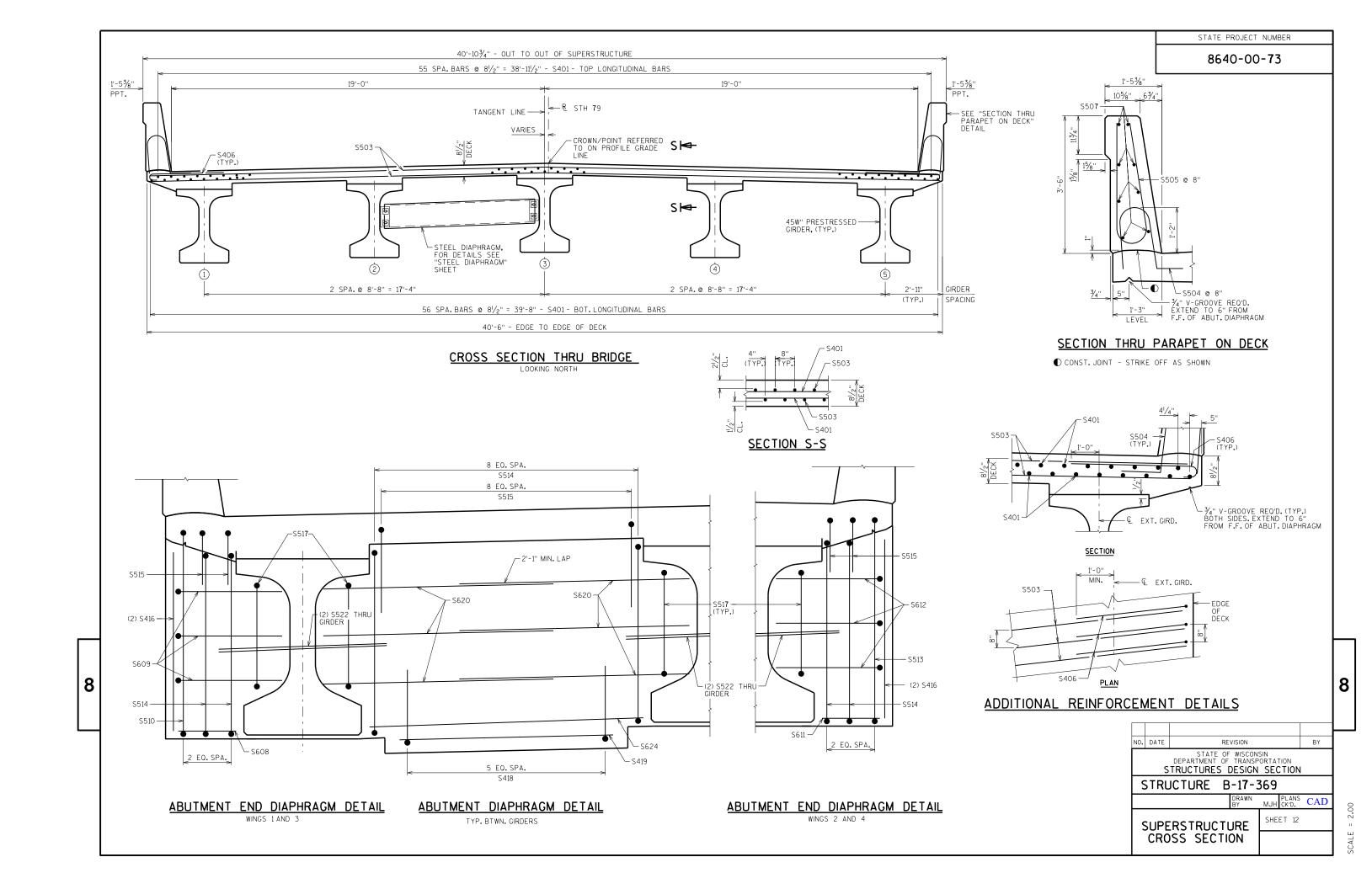


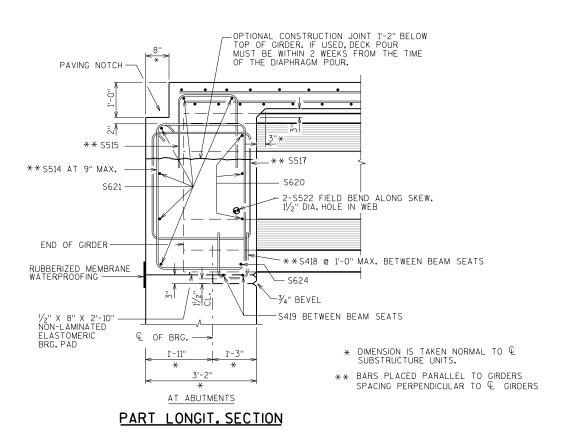
| TOP | ΩF | DECK | ELEVATIONS |
|-----|----|------|-------------|
| 101 | Oi | ロレしい | LLL VA HONS |

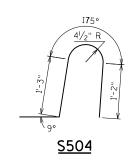
| | € BRG. S. ABUT. | 1/10 PT. | 2/10 PT. | 3/10 PT. | 4/10 PT. | 5/10 PT. | 6/10 PT. | 7 /10 PT. | 8/10 PT. | 9/10 PT. | € BRG. N. ABUT. |
|---------------|--------------------|-----------------|-------------|-----------------|-----------------|-----------------|-------------|---------------------|-------------|-------------|--------------------|
| LEFT GL | 903.50 | 903.55 | 903.60 | 903.65 | 903.70 | 903 .7 5 | 903.80 | 903.85 | 903.90 | 903.95 | 904.00 |
| GIRDER 1 | 903.54 | 903.59 | 903.64 | 903.69 | 903 .7 4 | 903 .7 9 | 903.84 | 903.89 | 903.94 | 903.99 | 904.04 |
| GIRDER 2 | 903.73 | 903 .7 8 | 903.83 | 903.88 | 903.93 | 903.98 | 904.03 | 904.08 | 904.13 | 904.18 | 904.23 |
| GIR 3/TANGENT | 903.92 | 903.97 | 904.02 | 904.07 | 904.12 | 904 .17 | 904.22 | 904.27 | 904.32 | 904.37 | 904.42 |
| GIRDER 4 | 903 .7 6 | 903.81 | 903.86 | 903.91 | 903.96 | 904.01 | 904.06 | 904.11 | 904.16 | 904.21 | 904.26 |
| GIRDER 5 | 903.60 | 903.65 | 903.70 | 903 .7 5 | 903.80 | 903.85 | 903.90 | 903.95 | 904.00 | 904.05 | 904.10 |
| RIGHT GL | 903.57 | 903.62 | 903.67 | 903 .7 2 | 903.77 | 903.82 | 903.87 | 903.92 | 903.97 | 904.02 | 904.07 |

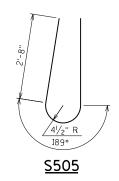
O INDICATED GIRDER NUMBER

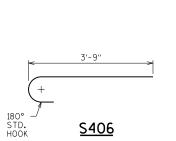






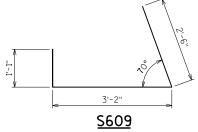


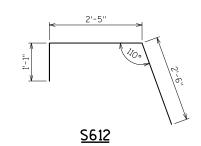


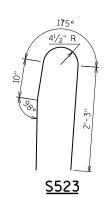


NOTE: THE FIRST OR FIRST TWO DIGITS OF THE BAR MARK SIGNIFIES THE BAR SIZE. REO'D. LENGTH LOCATION S401 DECK - LONG. - TOP 226 52'-0" S402 NOT S503 X 309 42'-9" DECK - TRANS. - TOP & BOT. S504 X 310 4'-5" DECK/PARAPET - VERT. S505 X 314 6'-8" X PPT. - VERT. S406 X 310 4'-3" DECK - TRANS. - DECK EDGE S507 X 32 PPT. - HORIZ. 52'-9" S608 WINGS 1 & 3 - ABUT. DIAPH. - ENDS - HORIZ. S609 X 6 6'-6" WINGS 1 & 3 - ABUT. DIAPH. - ENDS - HORIZ. S510 X 2 15'-8" WINGS 1 & 3 - ABUT. DIAPH. - ENDS - VERT. S611 X 2 1'-5" WINGS 2 & 4 - ABUT. DIAPH. - ENDS - HORIZ. S612 X 6 5'-9'' WINGS 2 & 4 - ABUT. DIAPH. - ENDS - HORIZ. S513 X 14'-2'' X WINGS 2 & 4 - ABUT. DIAPH. - ENDS - VERT. 2 S514 X 13'-0'' 80 ABUT. DIAPH. - VERT. S515 X 80 ABUT. DIAPH. - VERT. 6'-1" S416 8 4'-2" ABUT. DIAPH. - ENDS - VERT. S517 X 20 11'-0" ABUT. DIAPH. - VERT. S418 48 3'-4" ABUT. DIAPH. - VERT. - BTWN. BEAM SEATS S419 X 16 5'-0" ABUT. DIAPH. - HORIZ. - BTWN. BEAM SEATS 5'-2" 48 S620 X ABUT. DIAPH. - HORIZ. 12 S621 42'-7" ABUT. DIAPH. - HORIZ. - B.F. TOP 20 ABUT. DIAPH. - HORIZ. - THRU GIR. S522 X 6'-0" S523 X 4 5'-10" PPT. - VERT. - 1 EACH CORNER AT END OF DECK

ABUT. DIAPH. - BOT. - F.F.

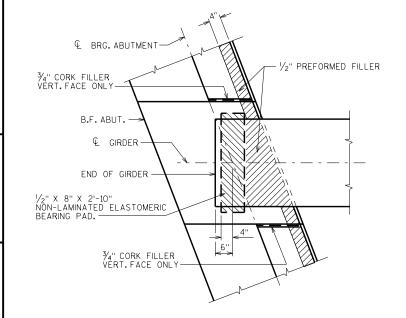






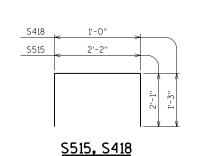
BILL OF BARS

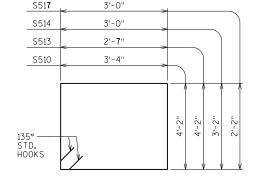
S624 X 8 6'-0"



BEARING PAD DETAIL

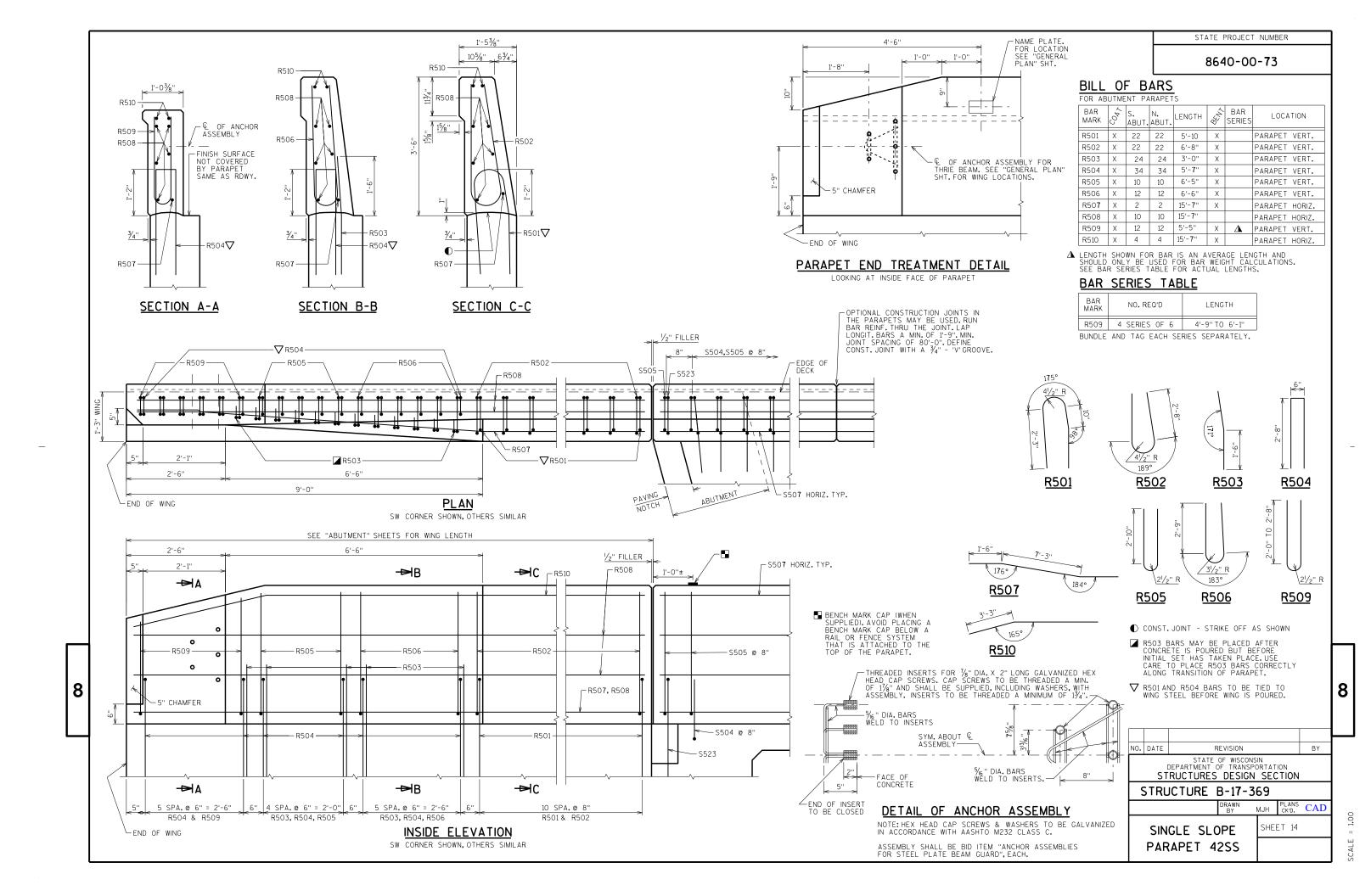
8





NO. DATE BY REVISION STATE OF WISCONSIN
DEPARTMENT OF TRANSPORTATION
STRUCTURES DESIGN SECTION STRUCTURE B-17-369 MJH CK'D. CAD SHEET 13 SUPERSTRUCTURE **DETAILS**

<u>\$510, \$513, \$514, \$517</u>



PROJECT I.D. 8640-00-71 EARTHWORK SUMMARY

| | | EXCAVATION | | EXPANDED | UNUSABLE | | | | EXCAVATION | | EXPANDED | UNUSABLE | |
|------------------|--------|------------|----------|----------|----------|----------|-----------|--------|------------|----------|----------|----------|------|
| | COMMON | ROCK | FILL (1) | FILL (2) | PAVEMENT | WASTE | | COMMON | ROCK | FILL (1) | FILL (2) | PAVEMENT | WAST |
| STA 285+00.00 | CY | CY | CY | CY | CY | CY | STA | CY | CY | CY | CY | CY | CY |
| 285+50.00 | 90 | 0 | 26 | 32 | 24 | 58 | 291+22.00 | 18 | 0 | 27 | 34 | 10 | -16 |
| | 83 | 0 | 28 | 35 | 24 | 48 | 291+41.65 | | | | | | |
| 286+00.00 | 68 | 0 | 15 | 19 | 24 | 49 | 291+50.00 | 8 | 0 | 9 | 11 | 4 | -3 |
| 286+50.00 | 59 | 0 | 7 | 8 | 24 | 51 | 291+81.33 | 41 | 0 | 15 | 19 | 15 | 22 |
| 287+00.00 | 10 | 0 | 0 | 0 | 4 | 10 | 292+06.09 | 43 | 0 | 11 | 14 | 12 | 29 |
| 287+09.00 | 33 | 0 | 11 | 14 | 20 | 19 | 292+30.84 | 53 | 0 | 22 | 27 | 12 | 26 |
| 287+50.00 | 17 | 0 | 29 | 36 | 17 | -19 | 292+42.21 | 28 | 0 | 11 | 13 | 6 | 15 |
| 288+00.00 | 7 | 0 | 27 | 0 | 7 | 7 | 292+67.39 | 68 | 0 | 16 | 20 | 12 | 48 |
| 288+36.29 | , | | | | | • | | 75 | 0 | 7 | 8 | 12 | 6 |
| 288+50.00 | 3 | 0 | 10 | 13 | 3 | -10 - | 292+92.60 | 111 | 0 | 2 | 2 | 16 | 10 |
| 288+61.51 | 3 | 0 | 8 | 10 | 3 | -7 | 293+25.00 | 90 | 0 | 0 | 0 | 12 | 90 |
| 288+73.42 | 3 | 0 | 9 | 12 | 3 | -9 | 293+50.00 | 172 | 0 | 0 | 0 | 24 | 17 |
| 288+86.70 | 3 | 0 | 12 | 14 | 3 | -11 | 294+00.00 | 173 | 0 | 0 | 0 | 24 | 17 |
| 288+98.17 | 1 | 0 | 11 | 13 | 1 | -12 | 294+50.00 | 177 | 0 | 0 | 0 | 24 | 17 |
| 289+22.93 | 1 | 0 | 22 | 28 | 1 | -27 | 295+00.00 | 176 | 0 | 0 | 0 | 24 | 17 |
| | 0 | 0 | 25 | 31 | 0 | -31 | 295+50.00 | 166 | 0 | | | | 16 |
| 289+50.00 | 0 | 0 | 90 | 113 | 0 | -113 | 296+00.00 | | | 0 | 0 | 24 | |
| 290+00.00 | 0 | 0 | 91 | 114 | 0 | -114 | 296+50.00 | 153 | 0 | 0 | 0 | 24 | 15 |
| 290+25.00 | 0 | 0 | 32 | 40 | 0 | -40 | 296+80.00 | 90 | 0 | 0 | 0 | 15 | 90 |
| 290+32.00 | | | | | | | 297+00.00 | 55 | 0 | 2 | 3 | 10 | 52 |
| CTURE B-17-0368 | | | | | | | 297+50.00 | 110 | 0 | 6 | 8 | 24 | 10 |

^{(1) -} NOT A BID ITEM - FOR INFORMATIONAL PURPOSES ONLY.

2191

TOTALS

PROJECT NO: 8640-00-71, 8640-00-73

CROSS SECTIONS:

EARTHWORK - COON CREEK CROSSING

PLOT NAME :

SHEET

465

WISDOT/CADDS SHEET 49

Ε

9

1500

P:\90\$\93\00093461\CADD\C3D\\$HEET\$PLAN\090201_XS.DWG LAYOUT NAME - EW1 FILE NAME :

HWY: STH 79

PLOT DATE : 4/27/2022 9:37 AM

COUNTY: DUNN

PLOT BY: JARED HANN

582

PLOT SCALE: 1 IN:10 FT HORZ. / 1 IN:10 FT VERT.

691

^{(2) -} FILL EXPANSION 25% (3) - EXISTING PAVEMENT BASED ON AVERAGE THICKNESS OF 5.25" OF ASPHALT PER BORING LOG.

PROJECT I.D. 8640-00-73 EARTHWORK SUMMARY

| | EXCAVATION | EXCAVATION | FILL (1) | EXPANDED FILL (2) | UNUSABLE PAVEMENT | WASTE | | EXCAVATION | EXCAVATION | | EXPANDED FILL (2) | UNUSABLE PAVEMENT | WASTE | |
|------------------------|------------|------------|----------|----------------------|----------------------|----------|--|------------|------------|----------|----------------------|----------------------|-------|--|
| | COMMON | ROCK | | | | | | COMMON | ROCK | FILL (1) | | | | |
| STA | CY | CY | CY | CY | CY | CY | STA | CY | CY | CY | CY | CY | CY | |
| 332+50.00 333+00.00 | 102 | 0 | 5 | 6 | 24 | 96 | 339+14.00 | 12 | 0 | 52 | 65 | 5 | -53 | |
| 333+50.00 | 107 | 0 | 4 | 5 | 24 | 102 | 339+25.00 | 28 | 0 | 87 | 109 | 12 | -81 | |
| 334+00.00 | 123 | 0 | 1 | 2 | 24 | 121 | 339+50.00 | 31 | 0 | 42 | 52 | 12 | -21 | |
| 334+25.00 | 66 | 0 | 1 | 2 | 12 | 64 | 339+75.00 | 48 | 0 | 22 | 27 | 17 | 21 | |
| 334+50.00 | 61 77 | 0 | 6 | 8 17 | 12 | 53 60 | 340+10.01 340+34.99 | 38 | 0 | 11 | 13 | 12 | 25 | |
| 334+80.20 | 53 | 0 | 14 8 | 10 | 15 10 | 43 | 340+59.97 | 41 | 0 | 24 | 30 | 12 | 11 | |
| 335+00.00 | 15 | 0 | 1 | 1 | 3 | 14 | 340+71.14 | 19 | 0 | 12 | 15 | 5 | 4 | |
| 335+05.18 | 75 | 0 | 3 | 3 | 12 | 72 | 340+96.12 | 45 | 0 | 18 | 22 | 12 | 23 | |
| 335+30.16 | 66 | 0 | 0 | 0 | 10 | 66 | 341+21.10 | 46 | 0 | 16 | 20 | 12 | 26 | |
| 335+50.00 | 65 | 0 | 0 | 0 | 9 | 65 | 341+50.00 | 54 | 0 | 14 | 18 | 14 | 36 | |
| 335+68.77 335+93.75 | 87 | 0 | 0 | 0 | 12 | 87 | 341+67.00 | 32 | 0 | 3 | 4 | 8 | 28 | |
| 336+18.73 | 83 | 0 | 0 | 0 | 12 | 83 | TOTALS | 1739 | 0 | 531 | 662 | 378 | 1077 | |
| 336+50.00 | 96 | 0 | 5 | 6 | 15 | 90 | (1) - NOT A BID ITEM - FOR INFORMATIONAL PURPOSES ONLY. | | | | | | | |
| 337+00.00 | 131 | 0 | 34 | 43 | 24 | 88 | (2) - FILL EXPANSION 25% (3) - EXISTING PAVEMENT BASED ON AVERAGE THICKNESS OF 5.25" OF ASPHALT PER BORING LOG. | | | | | | | |
| | 99 | 0 | 90 | 112 | 24 | -13 | | | | | | | | |

STRUCTURE B-17-0368

337+50.00

337+75.00

37

WISDOT/CADDS SHEET 49

E SHEET CROSS SECTIONS: EARTHWORK - CLACK CREEK CROSSING

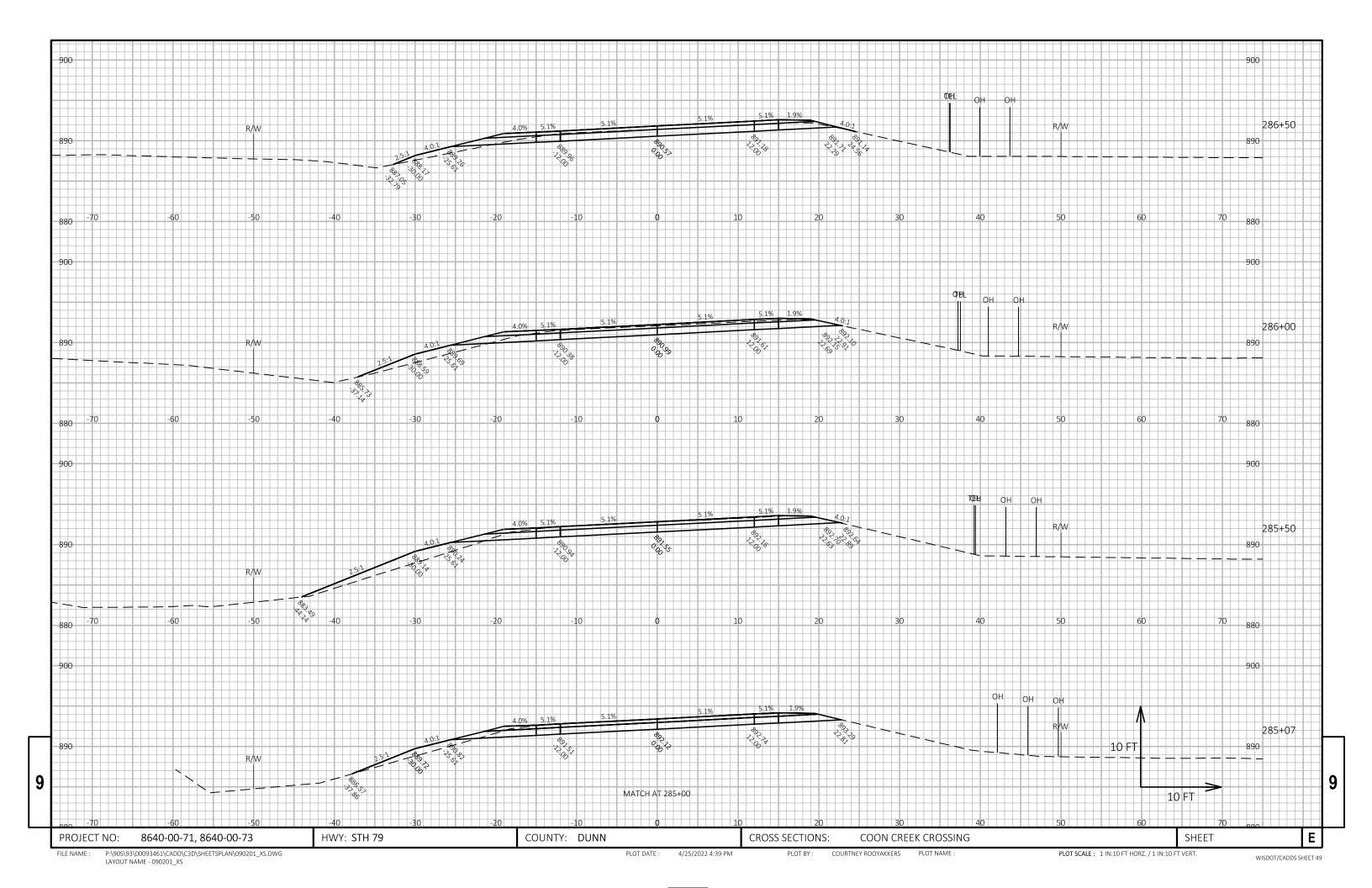
COUNTY: DUNN HWY: STH 79 PROJECT NO: 8640-00-71, 8640-00-73 PLOT DATE : 4/27/2022 9:36 AM PLOT BY: JARED HANN PLOT NAME : PLOT SCALE: 1 IN:10 FT HORZ. / 1 IN:10 FT VERT.

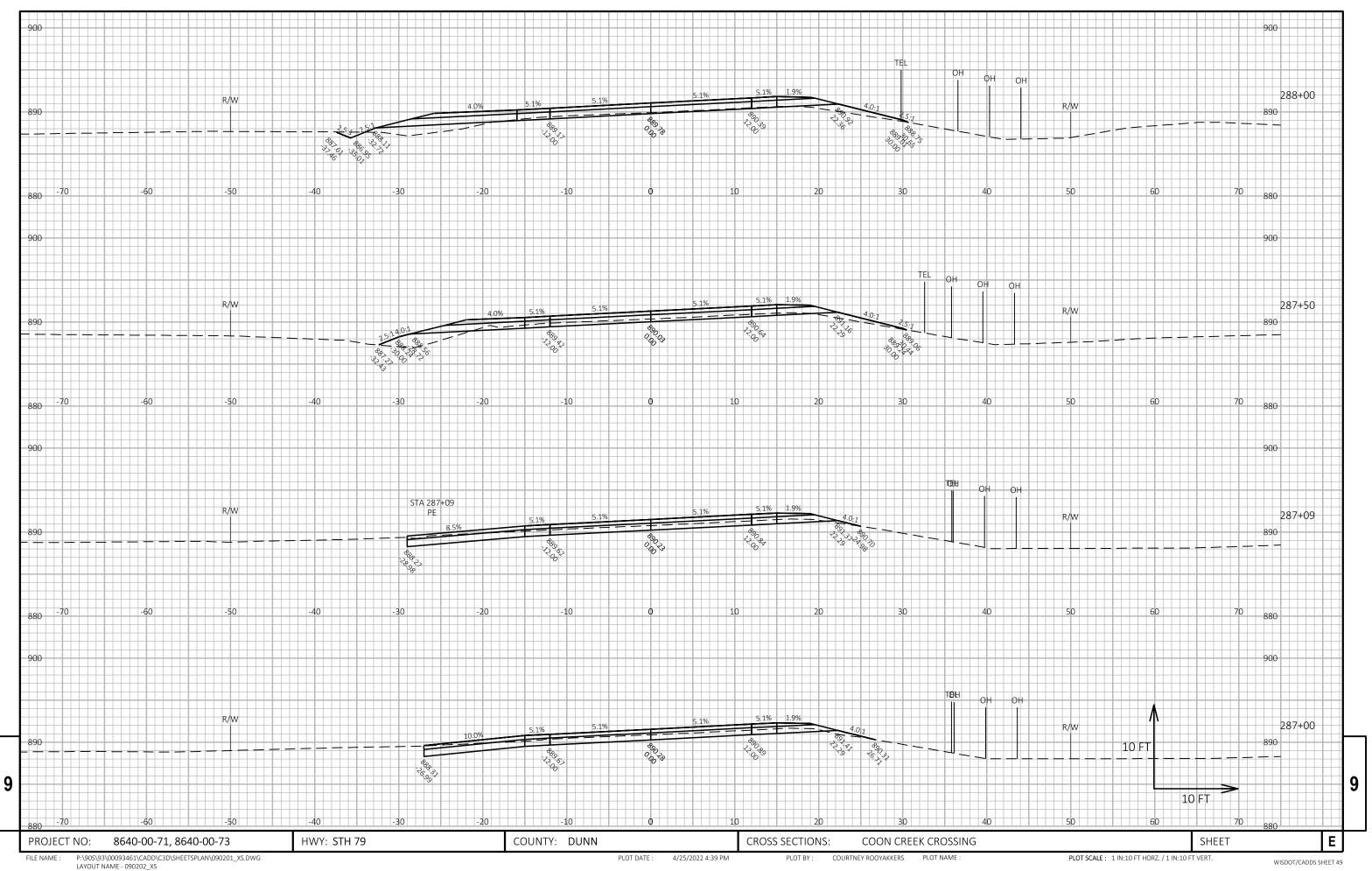
12

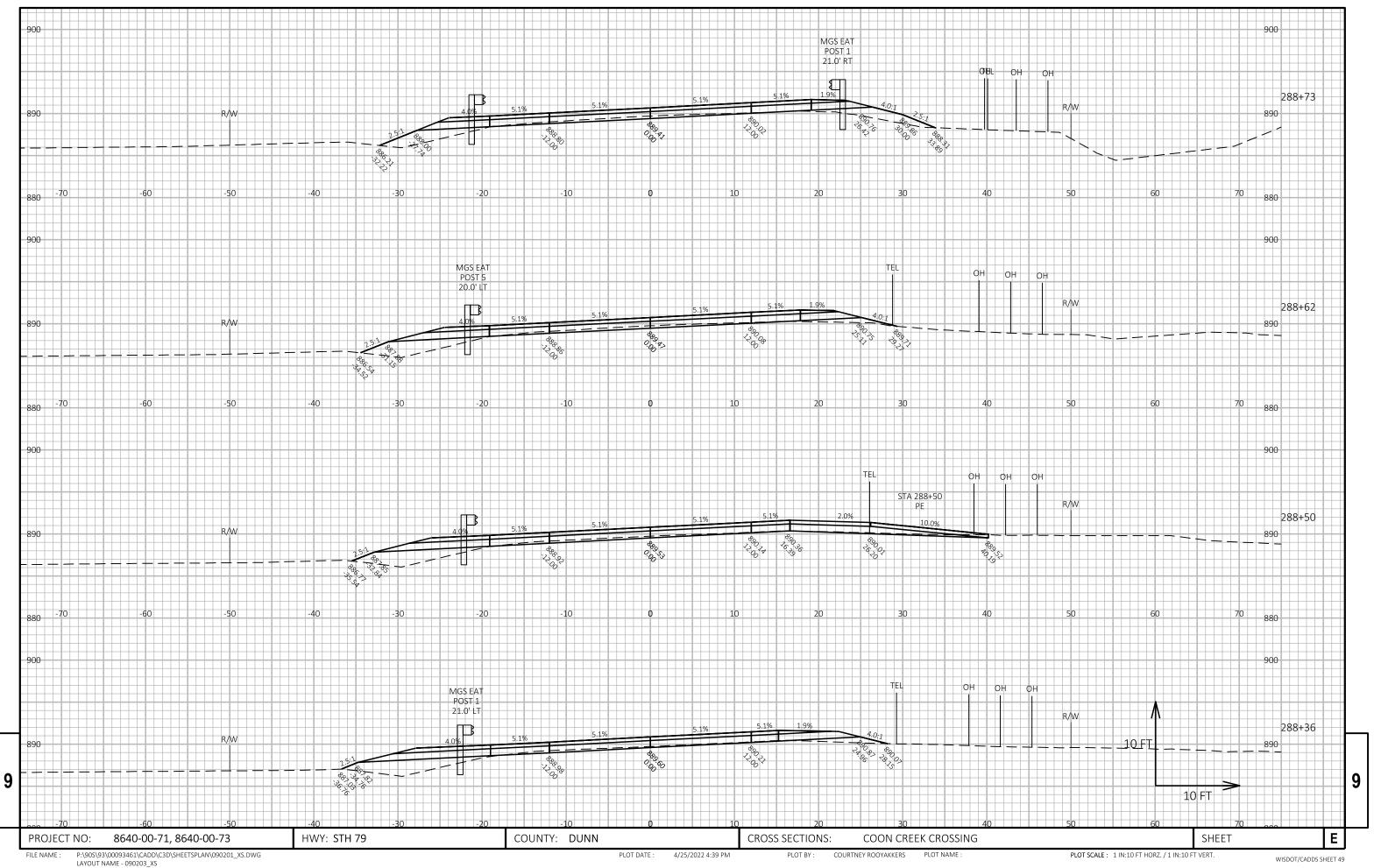
-35

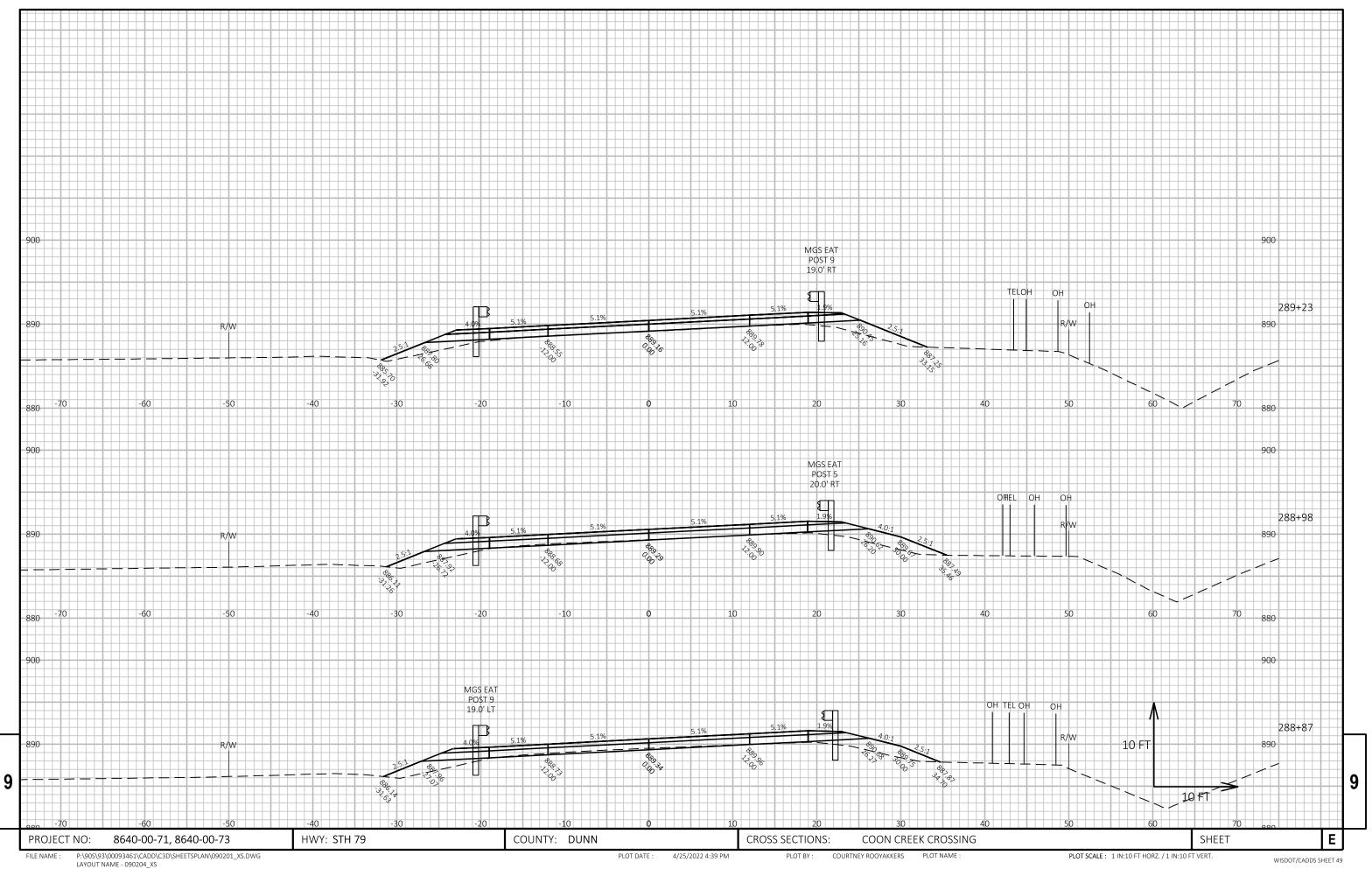
72

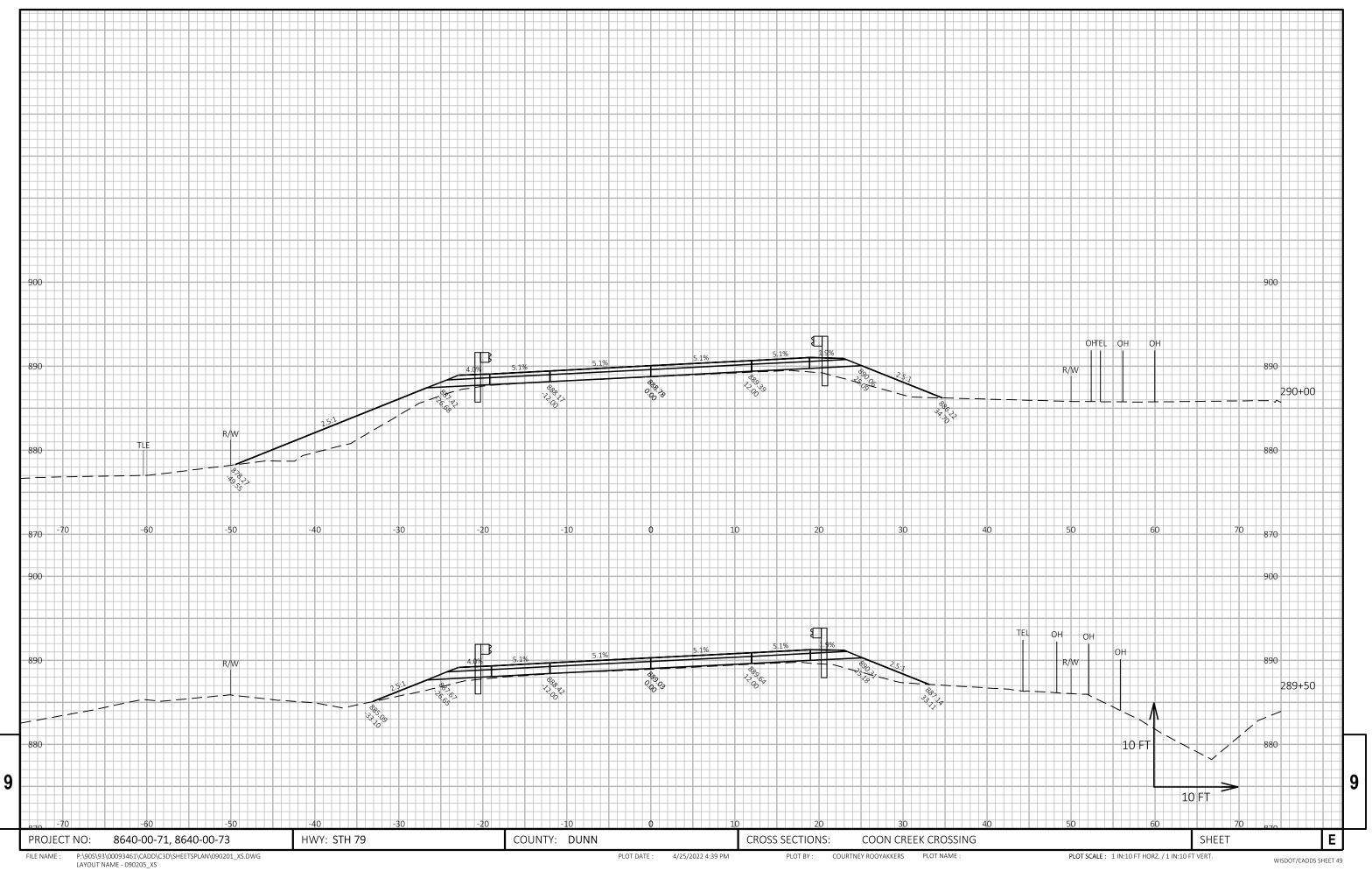
FILE NAME : P:\90S\93\00093485\CADD\C3D\SHEETSPLAN\090201_XS.DWG LAYOUT NAME - EW2

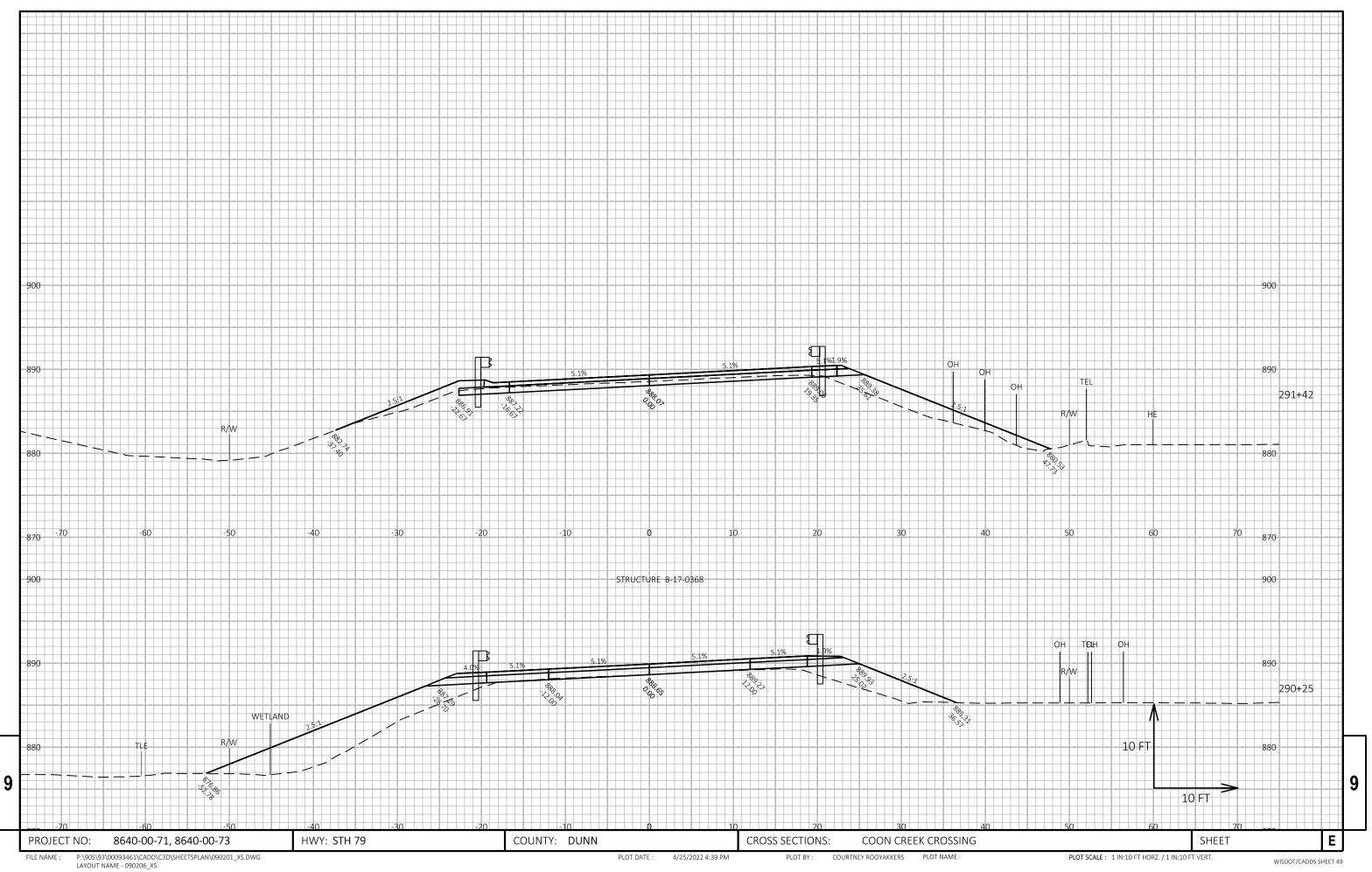




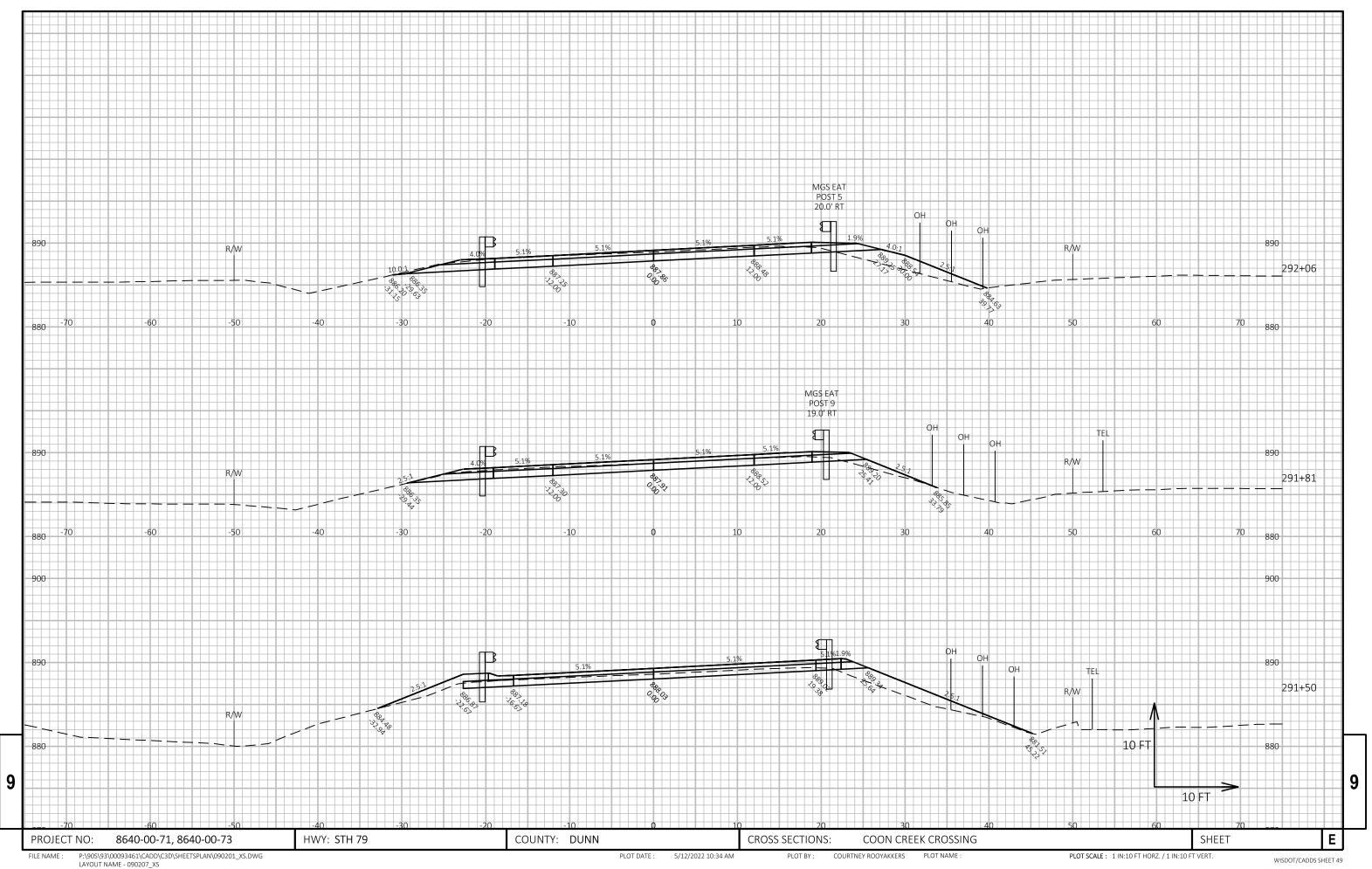




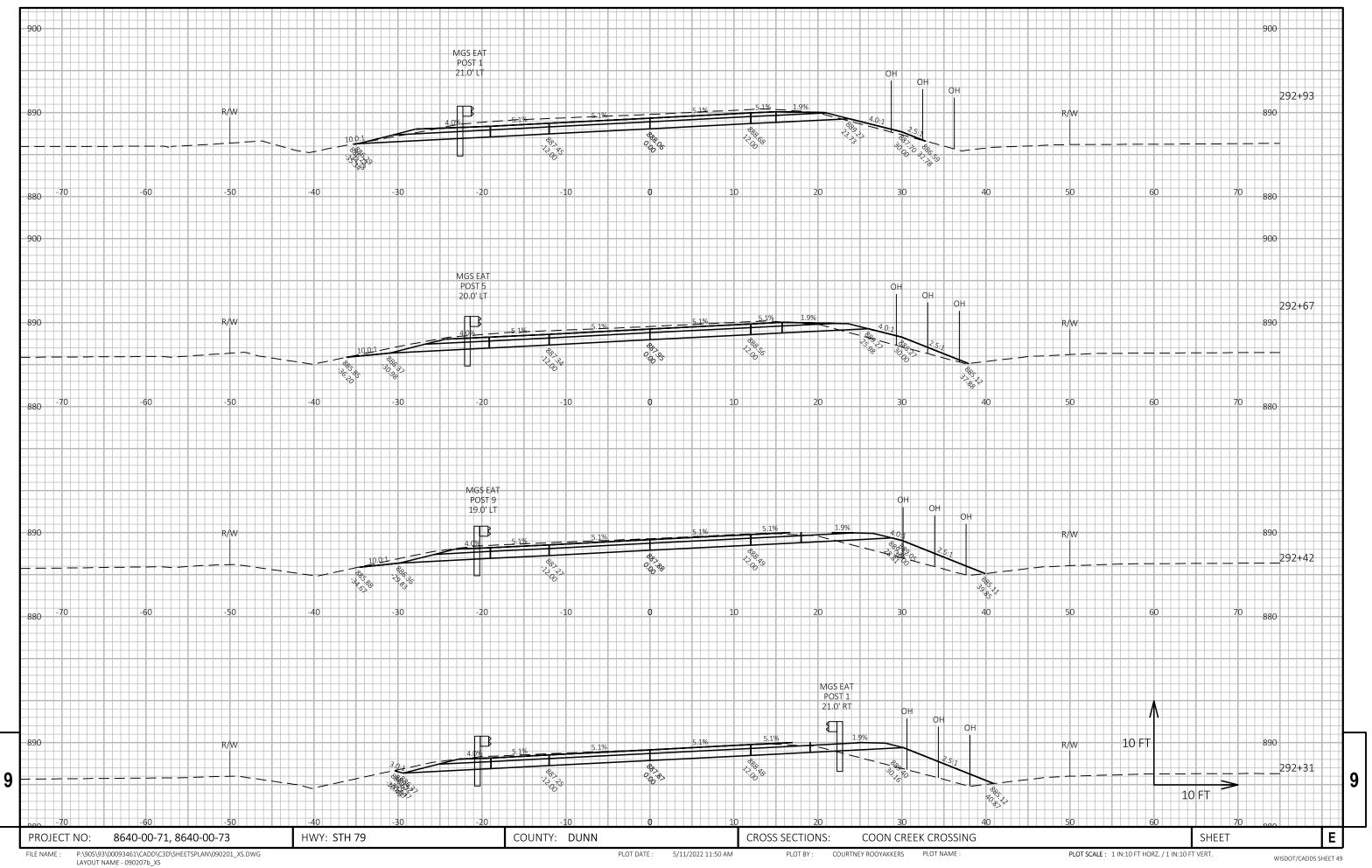


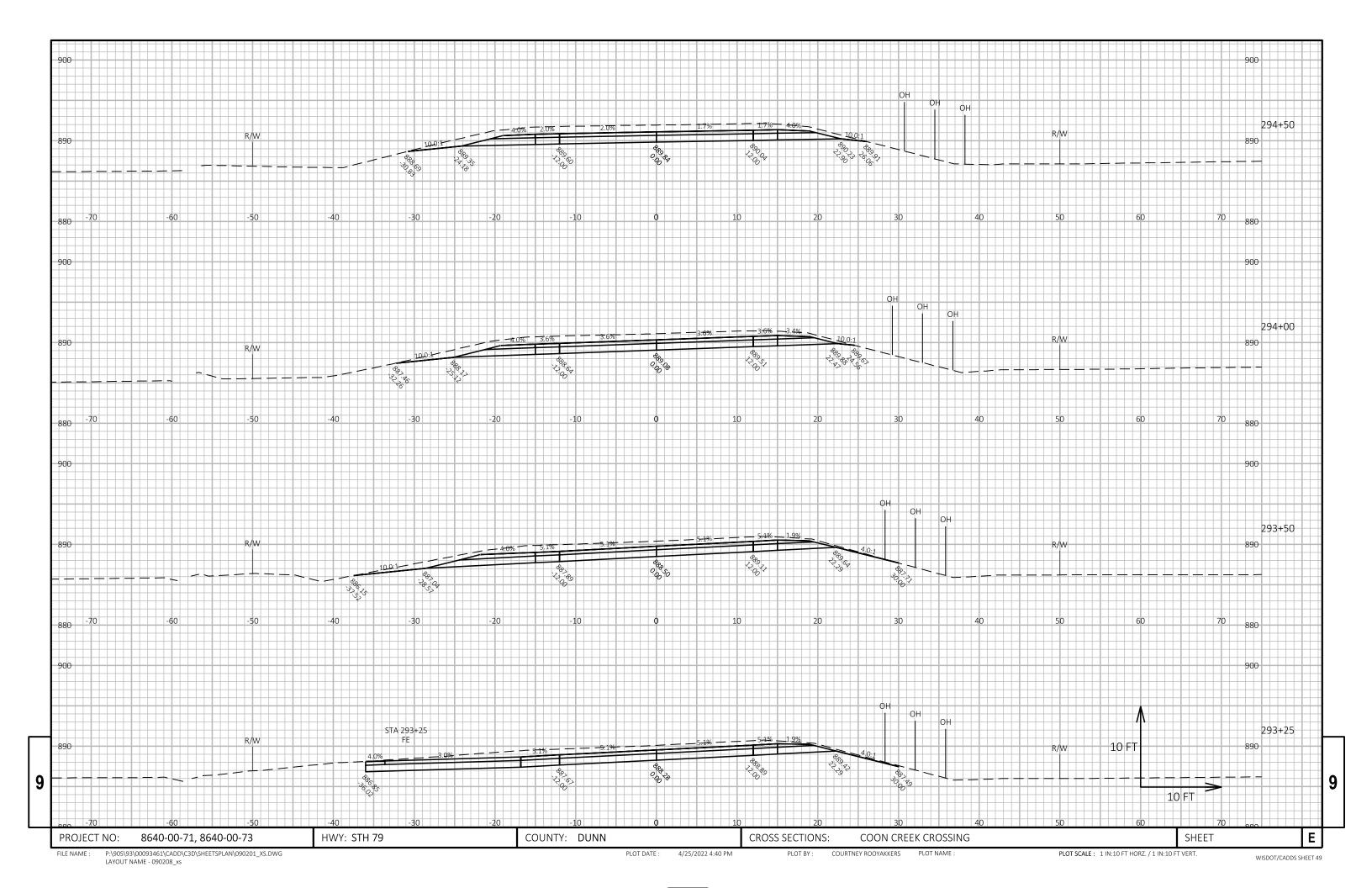


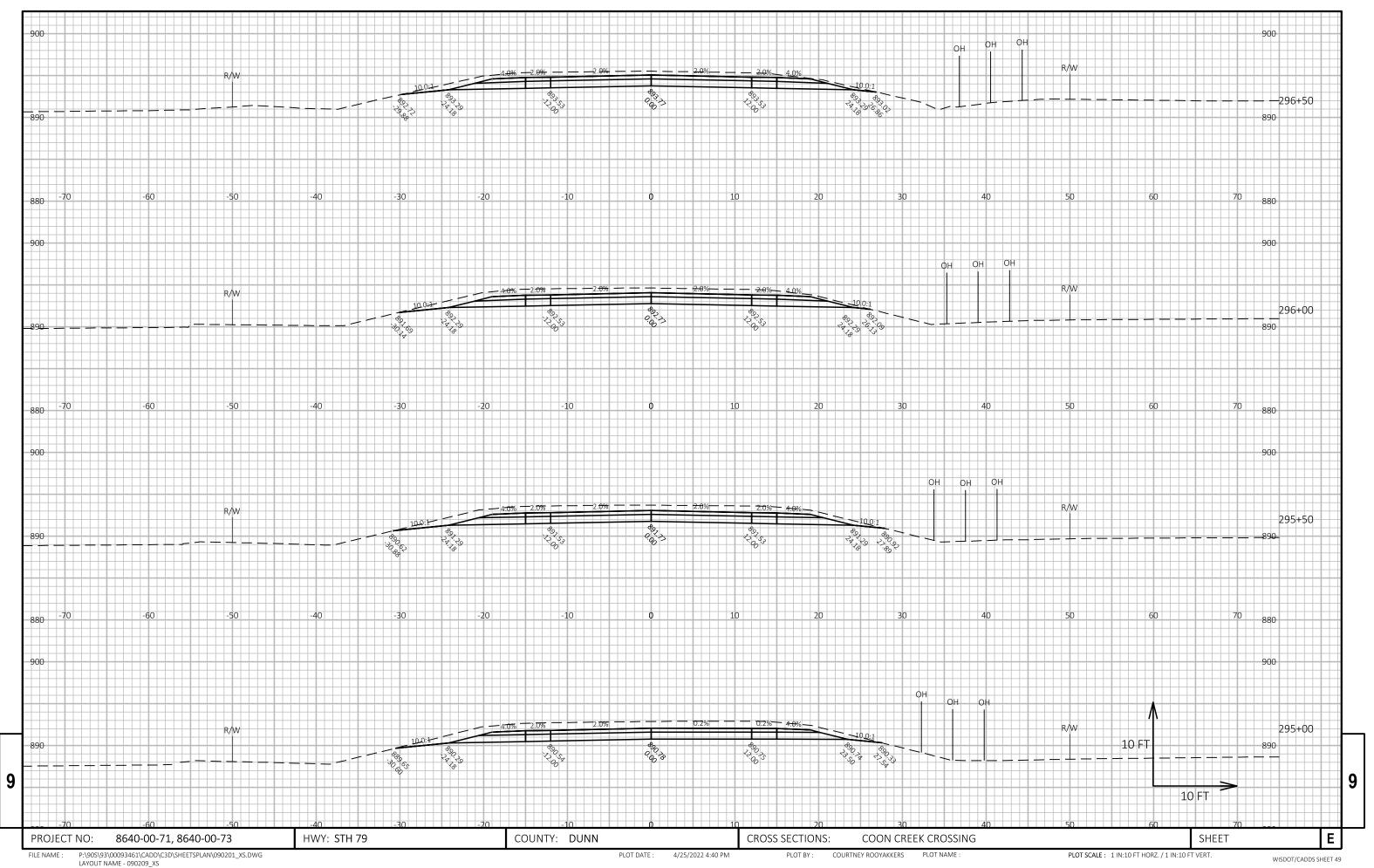
EATOUT NAME - 090200_AS



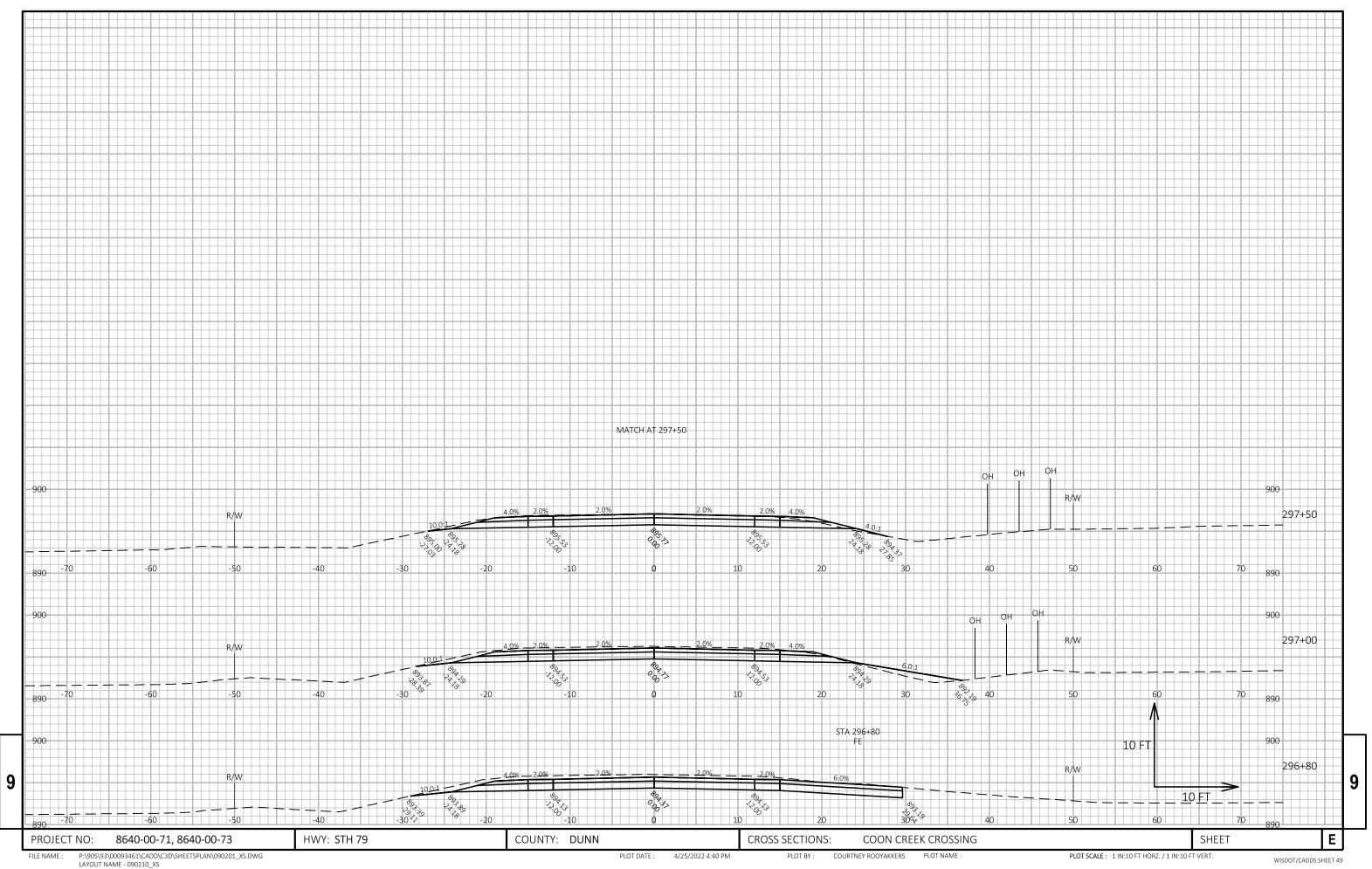
LATOUT NAME - 090207_AS



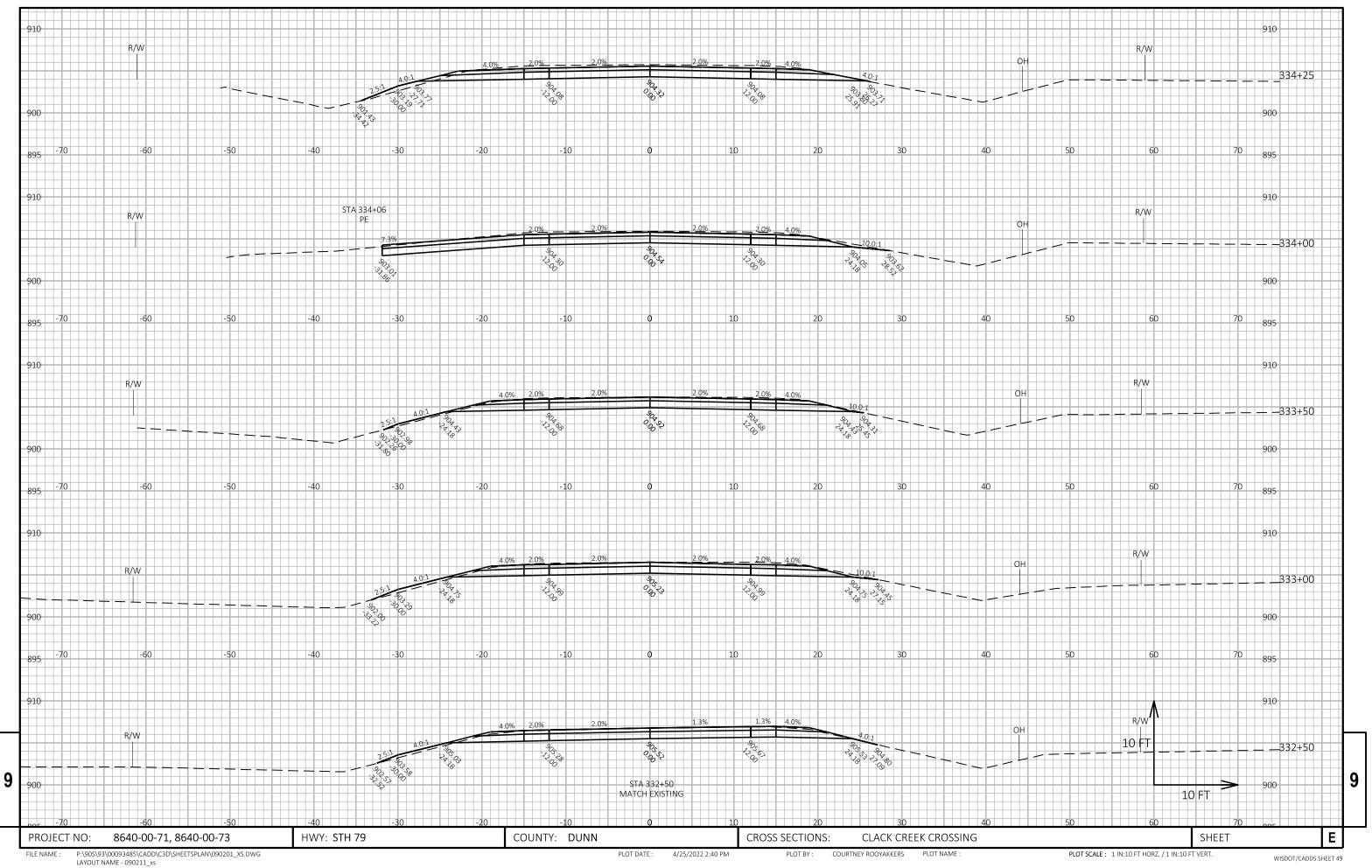




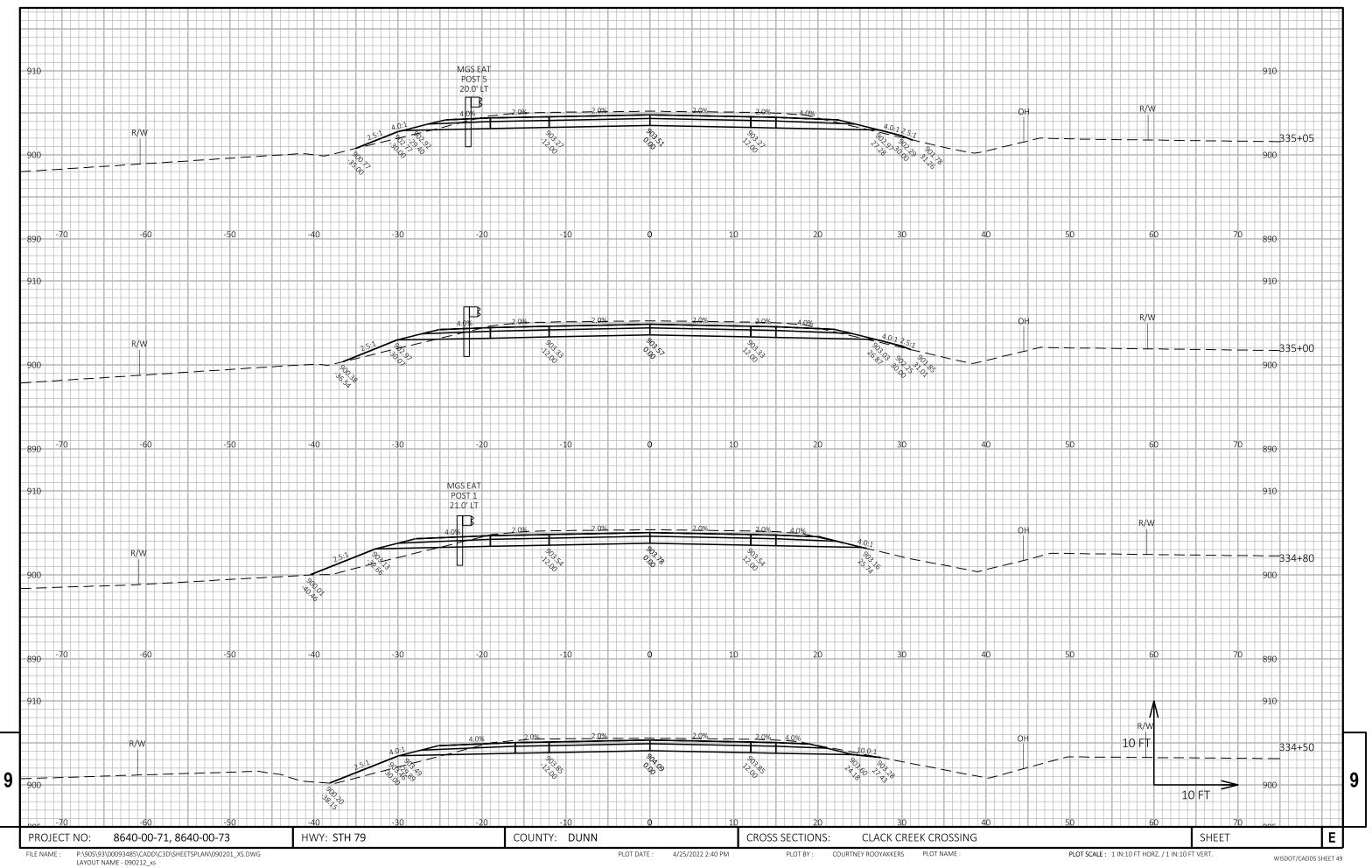
LATOUT NAIVIE - 090/209_XS



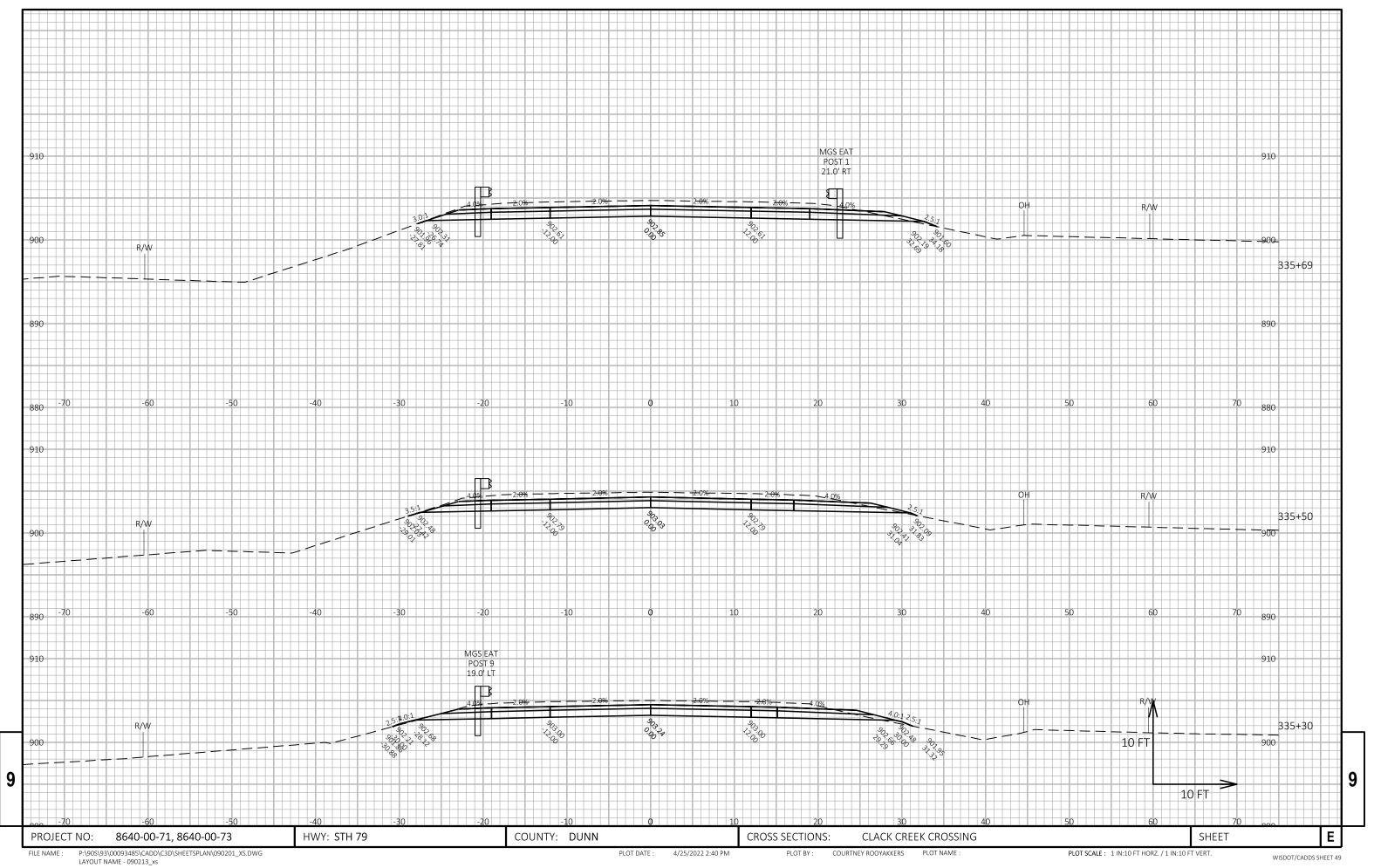
LAYOUT NAME - 090210_XS

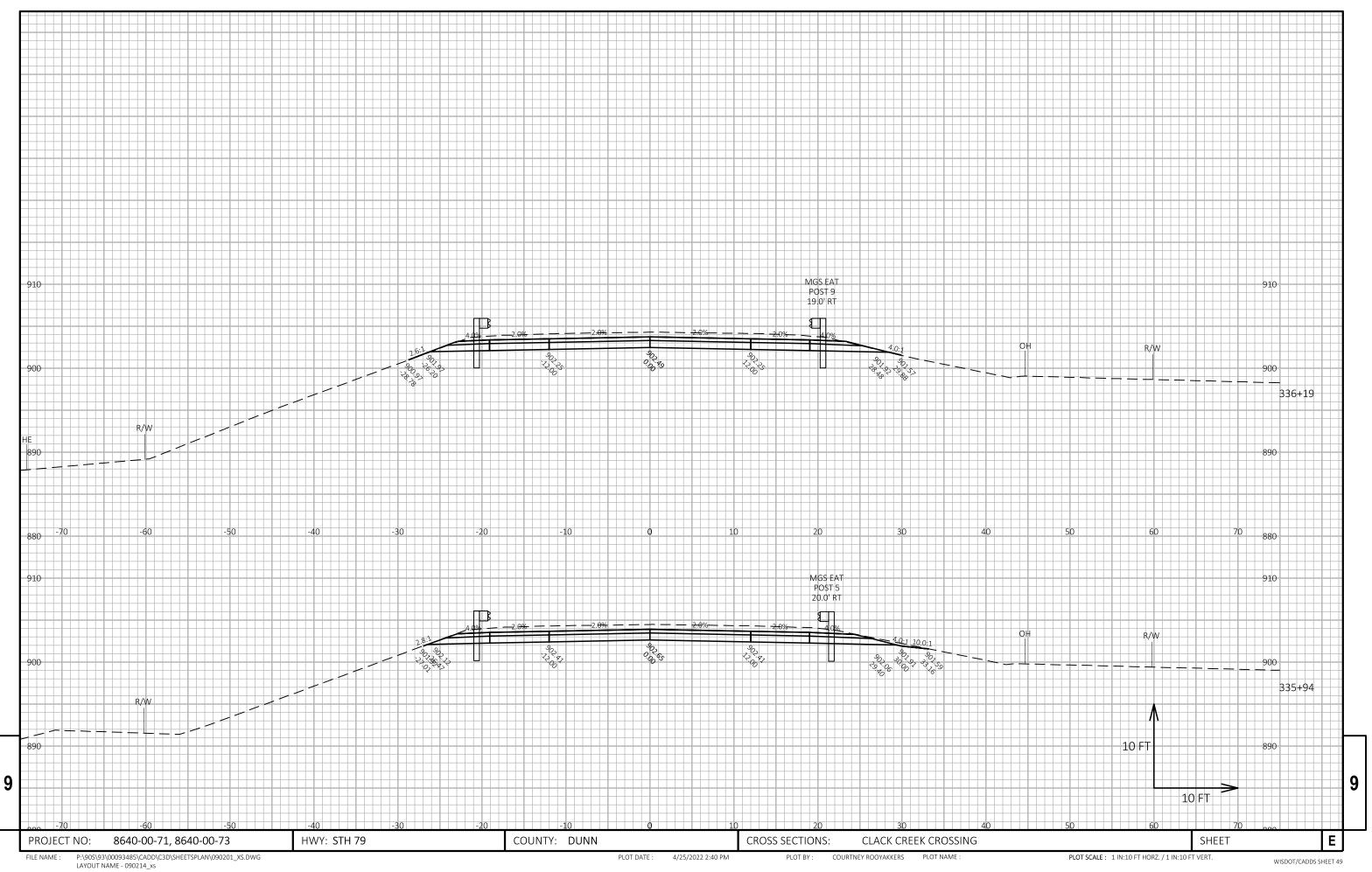


EATOUT NAME - USUZII_XS

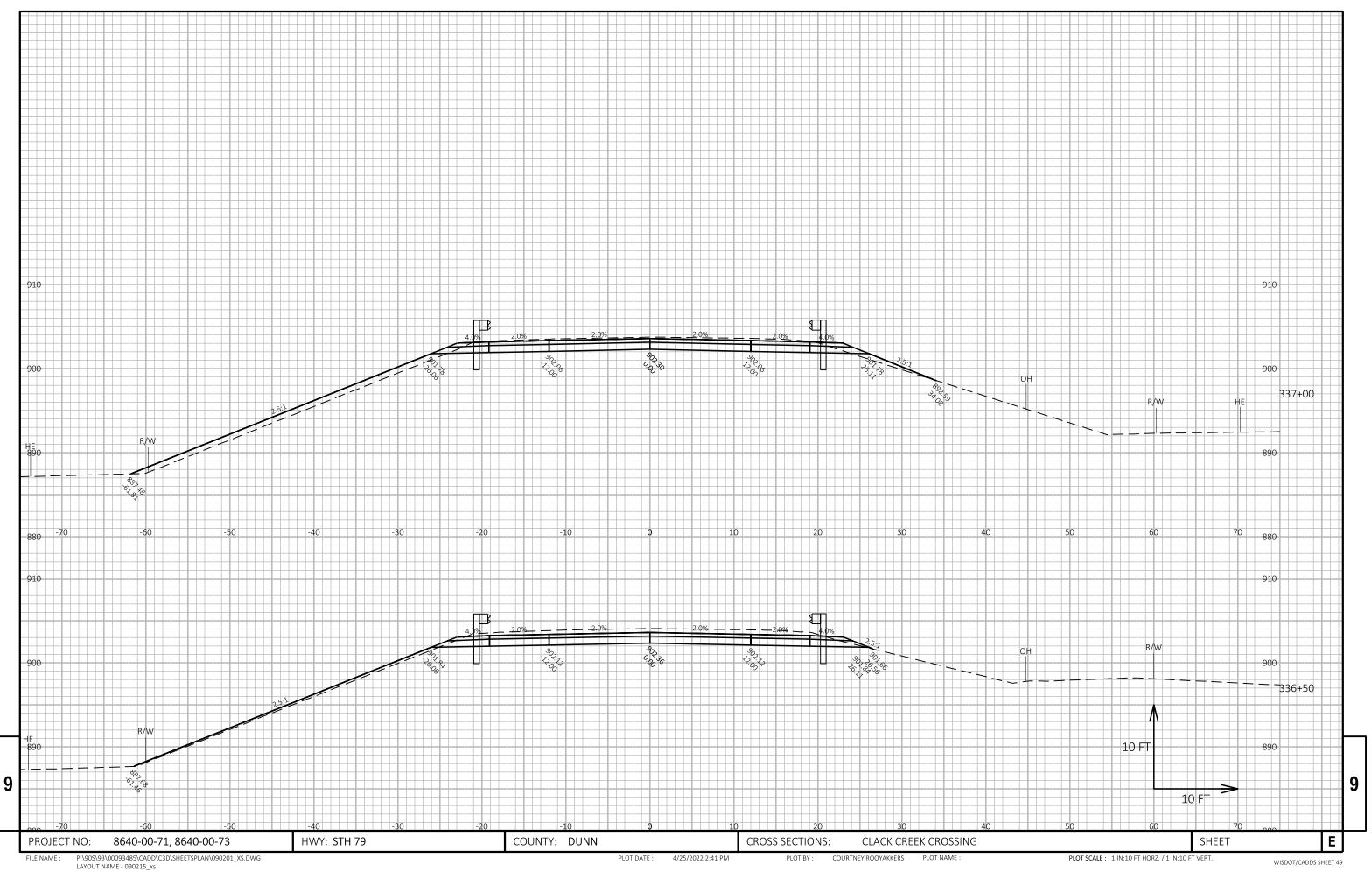


LATOUT IVAIVIE - 090212_X5

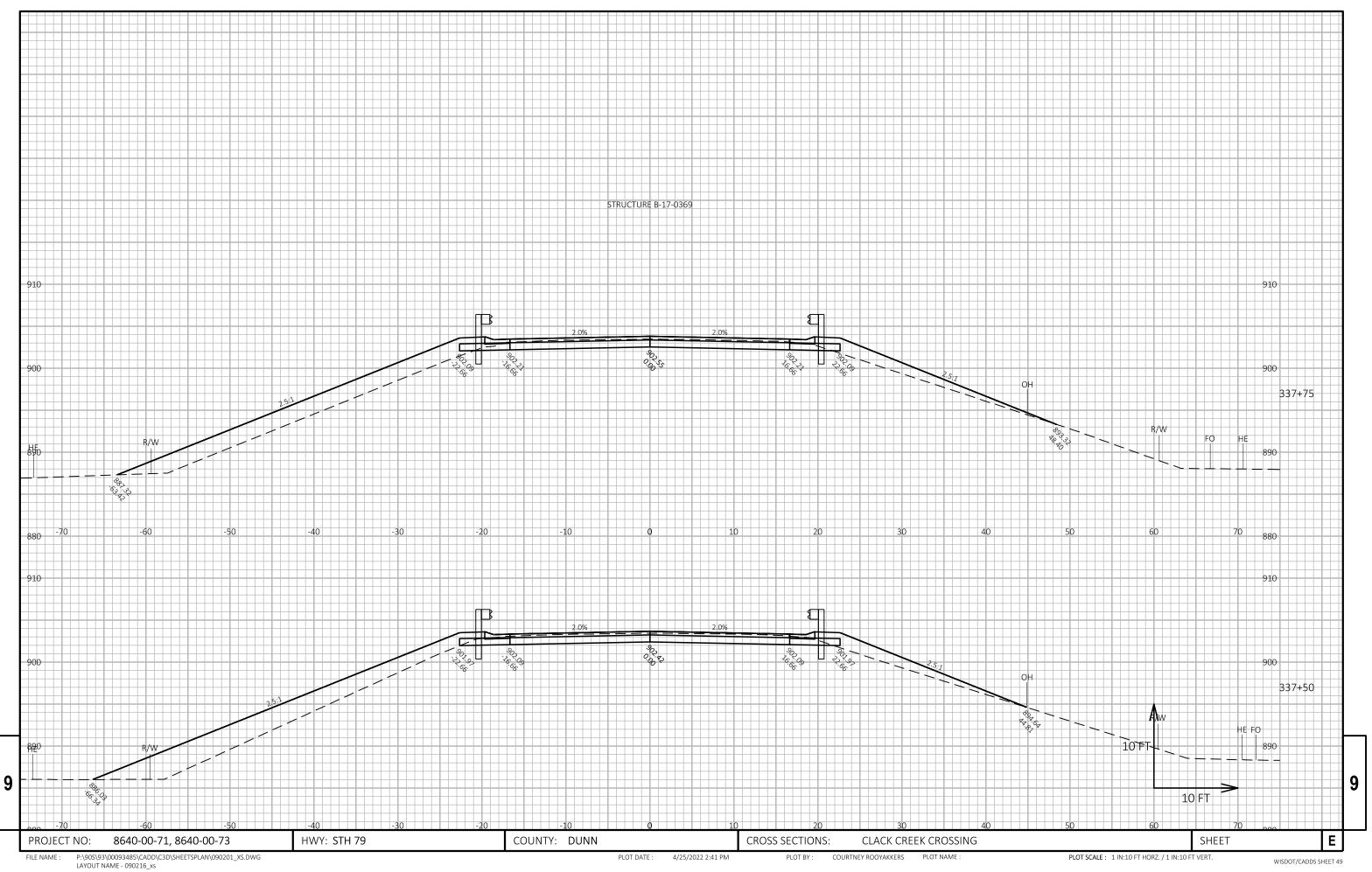




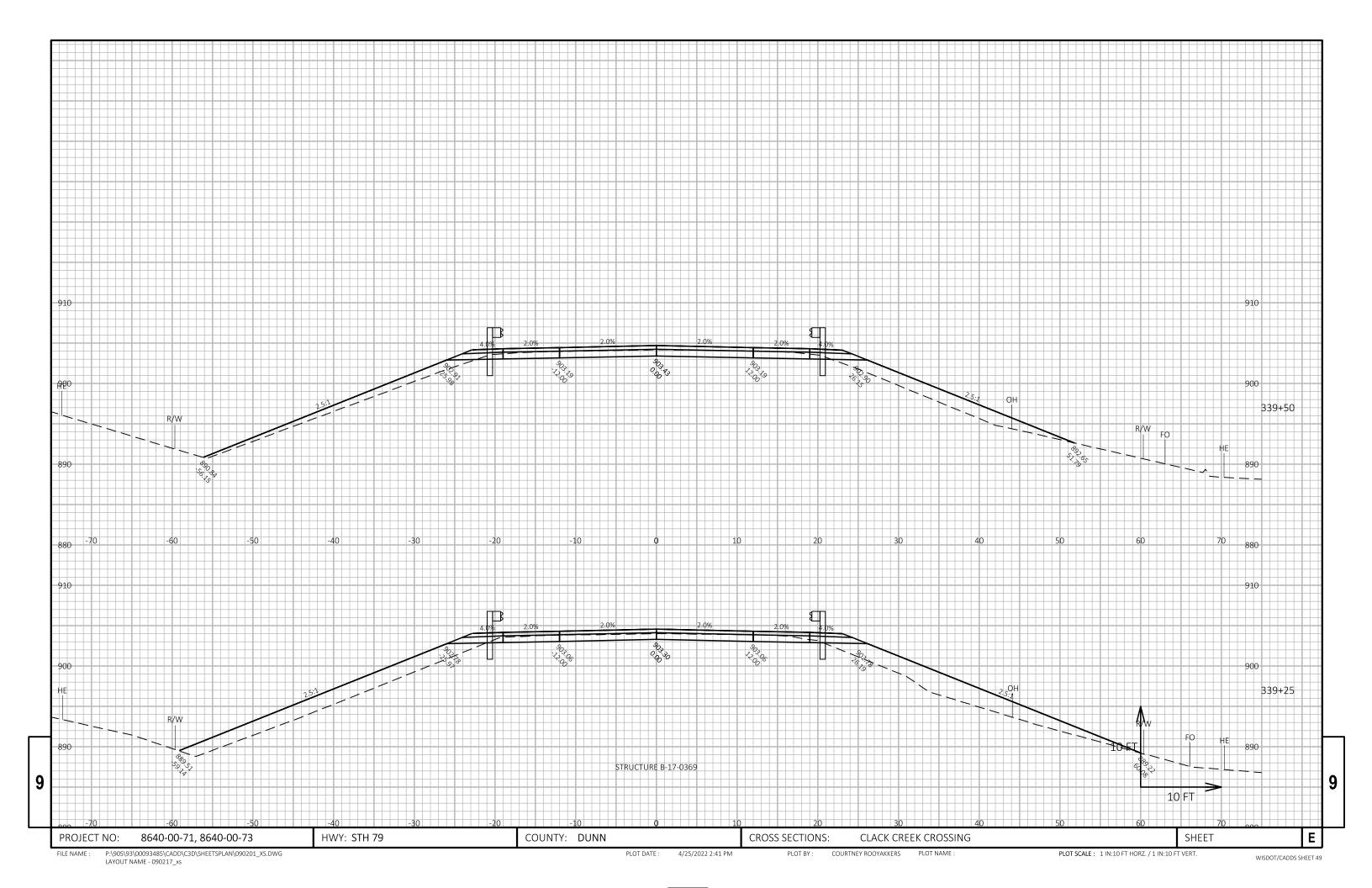
LATOUT NAME - 090214_XS

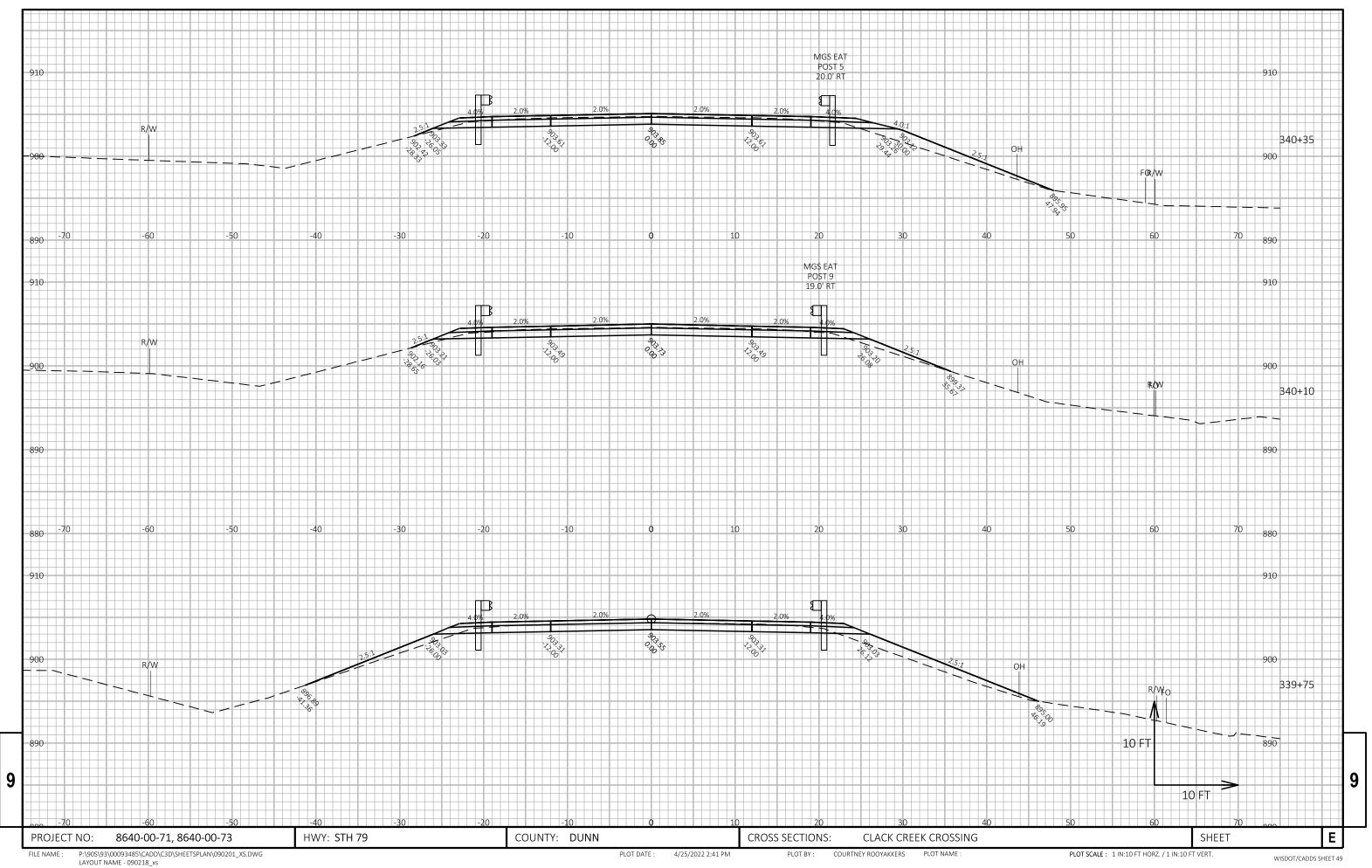


LATOUT NAME - 090213_XS

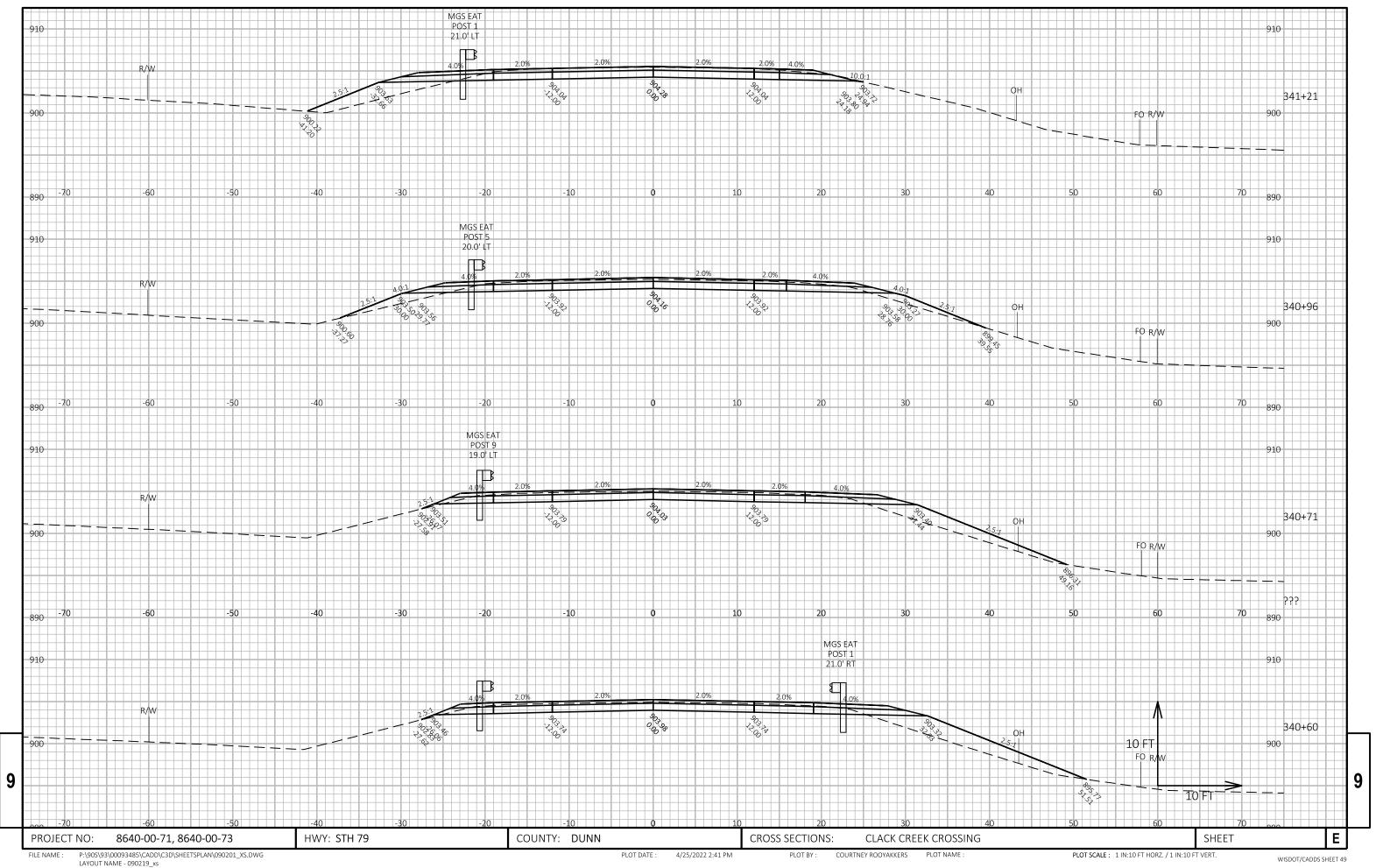


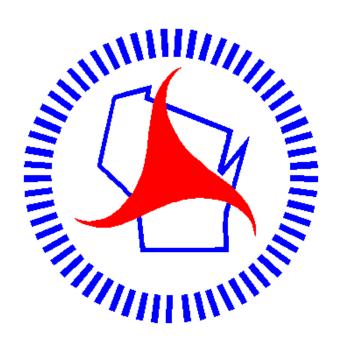
LATOUT NAME - U9UZ16_XS





EATOOT NAIVIL - 050218_AS





Wisconsin Department of Transportation

Dedicated people creating transportation solutions through innovation and exceptional service.

http://www.dot.wisconsin.gov