. '우 ESALS TREMPEALEAU

JANUARY 2015 ORDER OF SHEETS

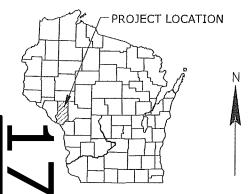
ection No. 1 Title ection No. 2 Typical Sections and Details

Section No. 3 Estimate of Quantities
Section No. 3 Miscellaneous Quantities
Section No. 8 Hold of Way Plat

Section No. 5 Plan and Profile (Includes Erosion Control Plan)
Section No. 6 Standard Detail Drawings

Section No. - Sign Plates
Section No. 8 Structure Plans
Section No. - Computer Earthwork Data

TOTAL SHEETS = 28



DESIGN DESIGNATION

A.D.T. (2015) = 2,850 A.D.T. (2035) = 3,375 D.H.V. (2035) = 189 (5.6%) D.D. = 60 - 40 T. (A.D.T.) = 8,4% DESIGN SPEED = 35 MPH

CONVENTIONAL SYMBOLS

PLAN PROFILE CORPORATE LIMITS GRADE LINE ORIGINAL GROUND PROPERTY LINE MARSH OR ROCK PROFILE LOT LINE (To be noted as such) LIMITED HIGHWAY EASEMENT SPECIAL DITCH EXISTING RIGHT OF WAY GRADE ELEVATION PROPOSED OR NEW R/W LINE CULVERT (Profile View) SLOPE INTERCEPT UTILITIES REFERENCE LINE ELECTRIC FIBER OPTIC PROPOSED CULVERT SANITARY SEWER COMBUSTIBLE FLUIDS STORM SEWER TELEPHONE WATER MARSH AREA UTILITY PEDESTAL POWER POLE WOODED OR SHRUB AREA TELEPHONE POLE

STATE OF WISCONSIN DEPARTMENT OF TRANSPORTATION

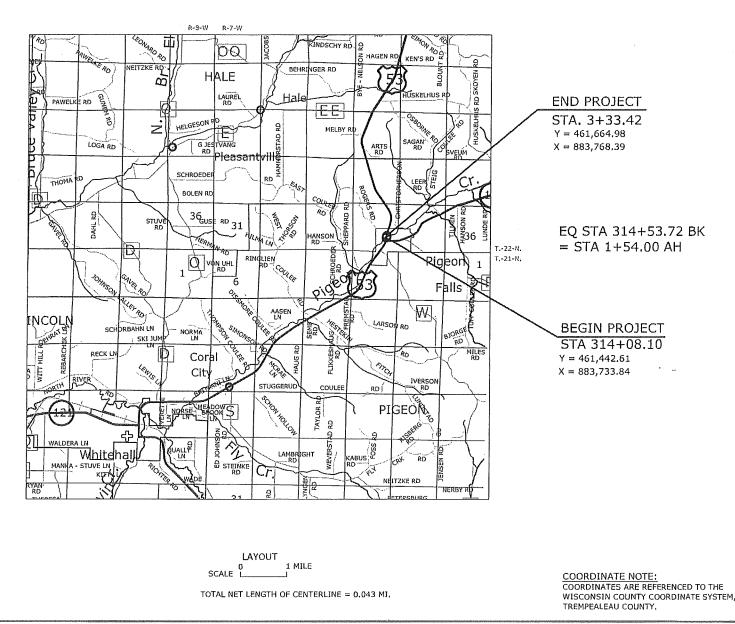
PLAN OF PROPOSED IMPROVEMENT

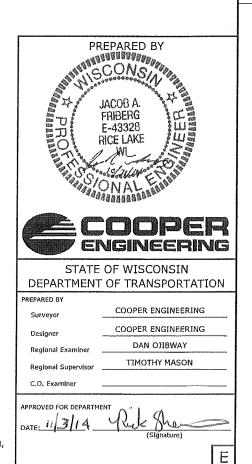
VILLAGE OF PIGEON FALLS, EKERN STREET

PIGEON CREEK BRIDGE B-61-0058 USH 53

TREMPEALEAU COUNTY

STATE PROJECT NUMBER 1630-02-70





LIST OF STANDARD ABBREVIATIONS

| ABUT | ABUTMENT | | |
|-----------|------------------------|-----------|---|
| AC | ACRES | LT. | LEFT |
| AGG | AGGREGATE | LS MH | LUMP SUM MANHOLE |
| AH | AHEAD | | |
| ADT | AVERAGE DAILY TRAFFIC | N NC | NORTH NORMAL CROWN |
| AVG. | AVERAGE | PAVT | PAVEMENT |
| ASPH | ASPHALTIC | PC | POINT OF CURVATURE |
| BK. | BACK | PE | PRIVATE ENTRANCE |
| вм | BENCHMARK | ΡΙ | POINT OF INTERSECTION |
| Δ | CENTRAL ANGLE OR DELTA | PL | PROPERTY LINE |
| <u> </u> | CENTERLINE | PP | POWER POLE |
| C & G | CURB AND GUTTER | PT | POINT OF TANGENCY |
| CABC | CRUSHED AGGREGATE | R | RANGE , RADIUS |
| | BASE COURSE | RCCP | REINFORCED CONCRETE |
| CONC. | CONCRETE | RD | CULVERT PIPE ROAD |
| COR | CORNER | | REINFORCEMENT BAR |
| CORR | CORRUGATED | REBAR | |
| CSCP | CORRUGATED STEEL | REQD | REQUIRED |
| 000. | CULVERT PIPE | RDWY | ROADWAY |
| CSPA | CORRUGATED STEEL | RHF | RIGHT HAND FORWARD |
| | PIPE ARCH | RL, R/L | REFERENCE LINE |
| CTH | COUNTY TRUNK HIGHWAY | RR RT. | RAILROAD RIGHT |
| CP. | CULVERT PIPE | R/W | RIGHT-OF-WAY |
| CF. CY | CUBIC YARD | S S | SOUTH |
| CWT. | HUNDREDWEIGHT | SAN S | |
| DIA | DIAMETER | SDD | SANITARY SEWER STANDARD DETAIL DRAWING |
| D | DEGREE OF CURVE | SE | SUPER ELEVATION |
| DHV | DESIGN HOURLY VOLUME | SF. | SQUARE FEET |
| DWY | DRIVEWAY | SHLDR | SHOULDER |
| EBS | EXC. BELOW SUB GRADE | SPECS | SPECIFICATIONS |
| ELEV., EI | _ ELEVATION | SQ. | SQUARE |
| ELEC. | ELECTRIC | SS. | STORM SEWER |
| EXC | EXCAVATION | SY. | SQUARE YARD |
| EXIST | EXISTING | STH | STATE TRUNK HIGHWAY |
| E | EAST | ST. | STREET |
| FE | FIELD ENTRANCE | STA. | STATION |
| FF. | FACE TO FACE | SW | SIDEWALK |
| FL, F/L | FLOW LINE | T TC | TANGENT TOP OF CURB |
| FS | FULL SUPERELEVATION | TL, T/L | TRANSIT LINE |
| G | GARAGE | TEL | TELEPHONE |
| GN | GRID NORTH | TEMP | TEMPORARY |
| Н | HOUSE | TLE | TEMPORARY LIMITED EASEMENT |
| | | TYP | TYPICAL |
| HYD | HYDRANT | USH | UNITED STATES HIGHWAY |
| I | INTERSECTION ANGLE | UG | UNDERGROUND |
| INTERS | INTERSECTION | V | DESIGN SPEED |
| INV. | INVERT | VAR. | VARIABLE |
| IP. | IRON PIN OR PIPE | VERT | VERTICAL |
| LC | LONG CHORD OF CURVE | YD | YARD |
| LF | LINEAR FOOT | | |
| | LINLAR TOOT | | |

UTILITY CONTACTS

COMMUNICATIONS

ELECTRIC

TRI-COUNTY COMMUNICATIONS COOP ATTN.: BUCK WEBB EMAIL: BWEBB@TCC.COOP

WE ENERGIES ATTN.: BILL GARSKI 1921 8TH ST SOUTH WISCONSIN RAPIDS, WI 54494 TEL.: (715) 421-7259

ALL UTILITIES LISTED ARE MEMBERS OF DIGGERS HOTLINE



OTHER CONTACTS

DESIGN CONSULTANT

COOPER ENGINEERING CO. INC. 2600 COLLEGE DRIVE RICE LAKE, WI. 54868 PHONE (715) 234-7008

DNR NORTHERN REGIONAL HQ

DNR/DOT LIAISON ATTN.: KAREN KALVELAGE 3550 MORMON COULEE RD LA CROSSE, WI 54601 TEL.: (608) 785-9115 EMAIL: KAREN.KALVELAGE@WISCONSIN.GOV

RUNOFF COEFFICIENT TABLE

GENERAL NOTES:

BEEN DESIGNATED FOR REMOVAL BY THE ENGINEER.

PAVEMENT MARKING SHALL MEET MUTCD STANDARDS.

PROJECT AREA THAT ARE NOW SHOWN.

NO TREES OR SHRUBS SHALL BE REMOVED UNLESS SUCH TREES OR SHRUBS HAVE

ACCESS TO ALL RESIDENCES SHALL BE MAINTAINED DURING CONSTRUCTION.

THE LOCATION OF EXISTING UTILITY INSTALLATIONS AS SHOWN ON THE PLANS ARE APPROXIMATE. THERE MAY BE OTHER UTILITY INSTALLATIONS WITHIN THE

THE CONTRACTOR SHALL NOTIFY DIGGERS HOTLINE AND AFFECTED UTILITIES PRIOR TO THE START OF WORK. ANY UTILITY WHICH IS NOT A MEMBER OF THE DIGGERS HOTLINE MUST BE CONTACTED SEPARATELY.

| | | HYDROLOGIC SOIL GROUP | | | | _ GROUP | | | | | | |
|-----------------------|------------------|-----------------------|------------|------------|------------|------------|------------------|------------|------------|------------|------------|------------|
| | | A | | В | | С | | D | | | | |
| | SL | OPE RA | NGE (%) | SL | OPE R | ANGE (%) | SL | OPE RA | ANGE (%) | SLO | OPE RA | NGE (%) |
| LAND USE: | 0-2 | 2-6 | 6 & OVER | 0-2 | 2-6 | 6 & OVER | 0-2 | 2-6 | 6 & OVER | 0-2 | 2-6 | 6 & OVER |
| ROW CROPS | .08 .22 | .16 .30 | .22 .38 | .12 .26 | .20 .34 | .27 .44 | .15 .30 | .24 .37 | .33 .50 | .19 .34 | .28 .41 | .38 .56 |
| MEDIAN STRIP- TURF | .19 .24 | .20 .26 | .24 .30 | .19 .25 | .22 .28 | .26 .33 | .20 .26 | .23 .30 | .30 .37 | .20 .27 | .25 .32 | .30 .40 |
| SIDE SLOPE- TURF | | | .25 .32 | | | .27 .34 | | | .28 .36 | | | .30 .38 |
| PAVEMENT: | | | | | | | | | | | | • |
| ASPHALT | | | .: | 7095 | 5 | | | | | | | |
| CONCRETE | | | 3. | 3095 | ; | | | | | | | |
| BRICK | , and the second | | | 7080 |) | · | , and the second | | · | | | · |
| DRIVES, WALKS | | | | 7585 | 5 | | | | | | | |
| ROOFS | | | .7 | 7595 | 5 | | | | | | | |
| GRAVEL ROADS, | SHOUL | DERS | .4 | 1060 | | | | | | | | |

TOTAL PROJECT AREA = 24 ACRES TOTAL AREA EXPECTED TO BE DISTURBED BY CONSTRUCTION ACTIVITIES = 24 ACRES

P.O. BOX 578 STRUM, WI 54770 TEL.: (715) 695-2691

XCEL ENERGY - ELECTRIC ATTN.: KAYE CROOK 1003 S BLACK RIVER ST SPARTA, WI 54656 TEL.: (608) 789-3677 EXT. 14 EMAIL: kaye.m.crook@Xcelenergy.com

WATER & SANITARY

VILLAGE OF PIGEON FALLS ATTN.: GEORGE EVERSON P.O. BOX 335 PIGEON FALLS, WI 54760 TEL.: (715) 983-2214

NATURAL GAS

EMAIL: bill.garski@we-energies.com 24-HOUR EMEGENCY (GAS) 800-261-5325

GENERAL NOTES SHEET NO:

FILE NAME: G:\2012-proj\12445022\dwg\PLAN SET\020101_gn.DWG

1630-02-70

LEFT HAND FORWARD

LENGTH OF CURVE

LHF

PROJECT NUMBER:

PLOT DATE: Aug 01, 2014 - 11:46am

USH 53

HWY:

PLOT BY:interns2

COUNTY:

TREMPEALEAU PLOT NAME: GEN-NOTES

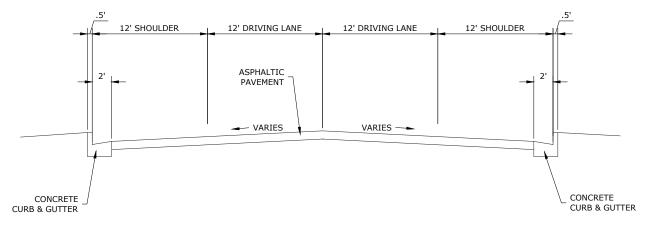
ORG. DATE: Oct 18, 1999

Originator:

PLOT SCALE: NONE

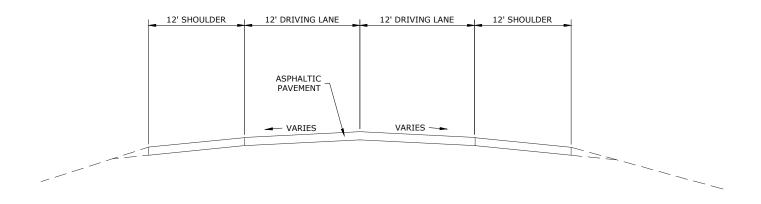
WISDOT/CADDS SHEET 42





TYPICAL EXISTING SECTION

USH 53 STA 314+08.10 TO STA 1+54.84 (EQ STA 314+53.72 BK = STA 1+54.00 AH)



TYPICAL EXISTING SECTION

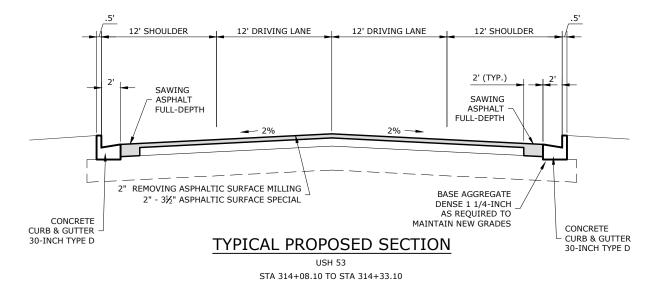
USH 53 STA 2+85.16 TO STA 3+33.42

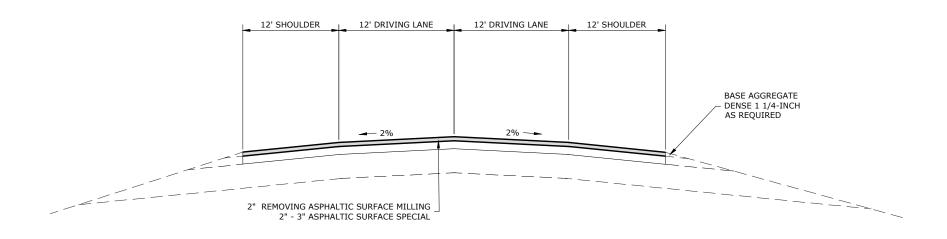
> SCALE 5'

PROJECT NUMBER: 1630-02-70 HWY: USH 53 COUNTY: TREMPEALEAU USH 53 TYPICAL SECTION SHEET SHEET NO: E

FILE NAME: G:\2012-proj\12445022\dwg\PLAN SET\020301_ts.dwg PLOT DATE: Aug 01, 2014 - 11:49am PLOT BY:interns2 PLOT NAME: Layout1 (2) ORG. DATE: Oct 18, 1999 Originator : J.C.A. PLOT SCALE : WISDOT/CADDS SHEET 42





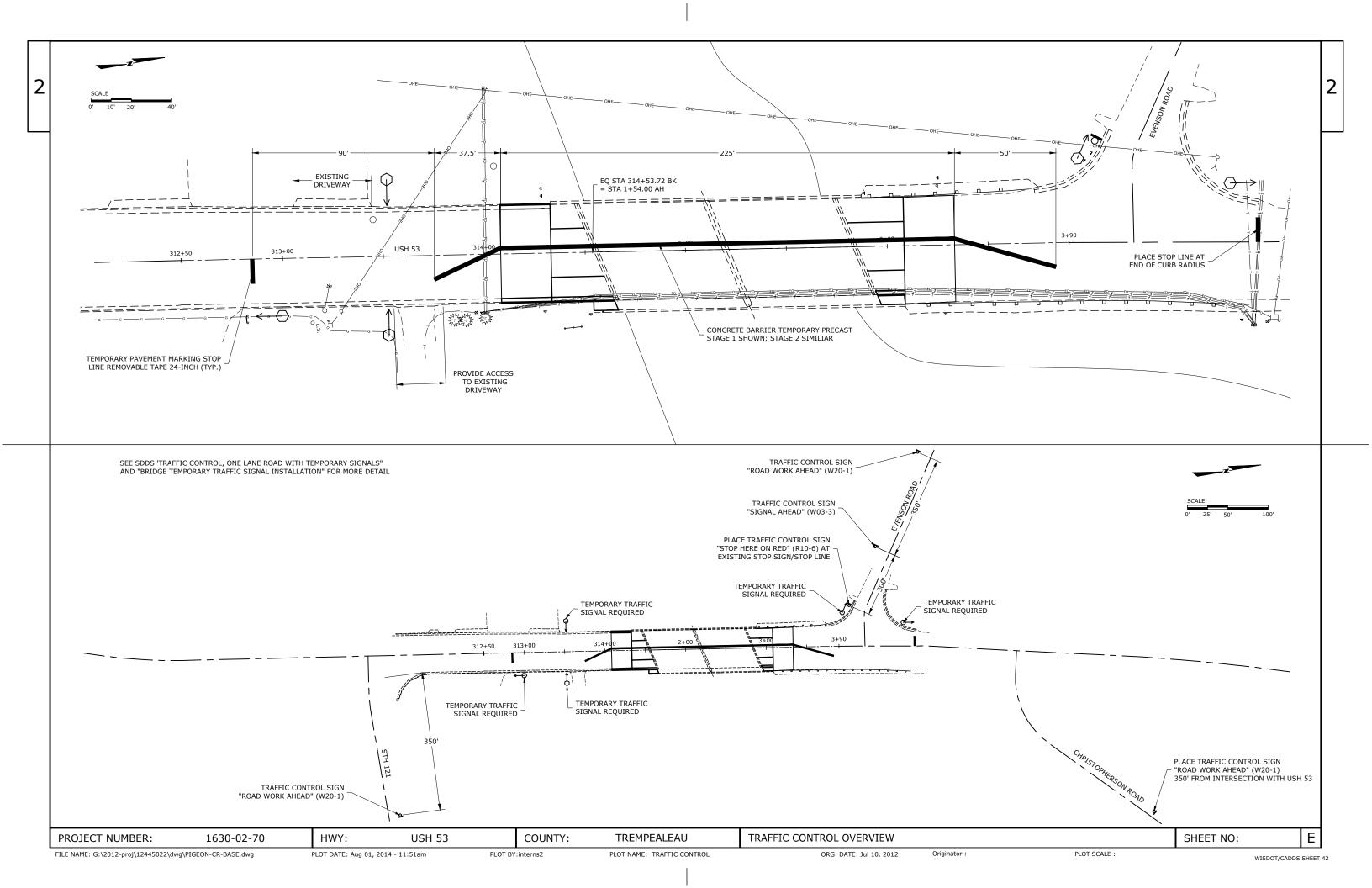


TYPICAL PROPOSED SECTION

USH 53 STA 3+08.42 TO STA 3+33.42

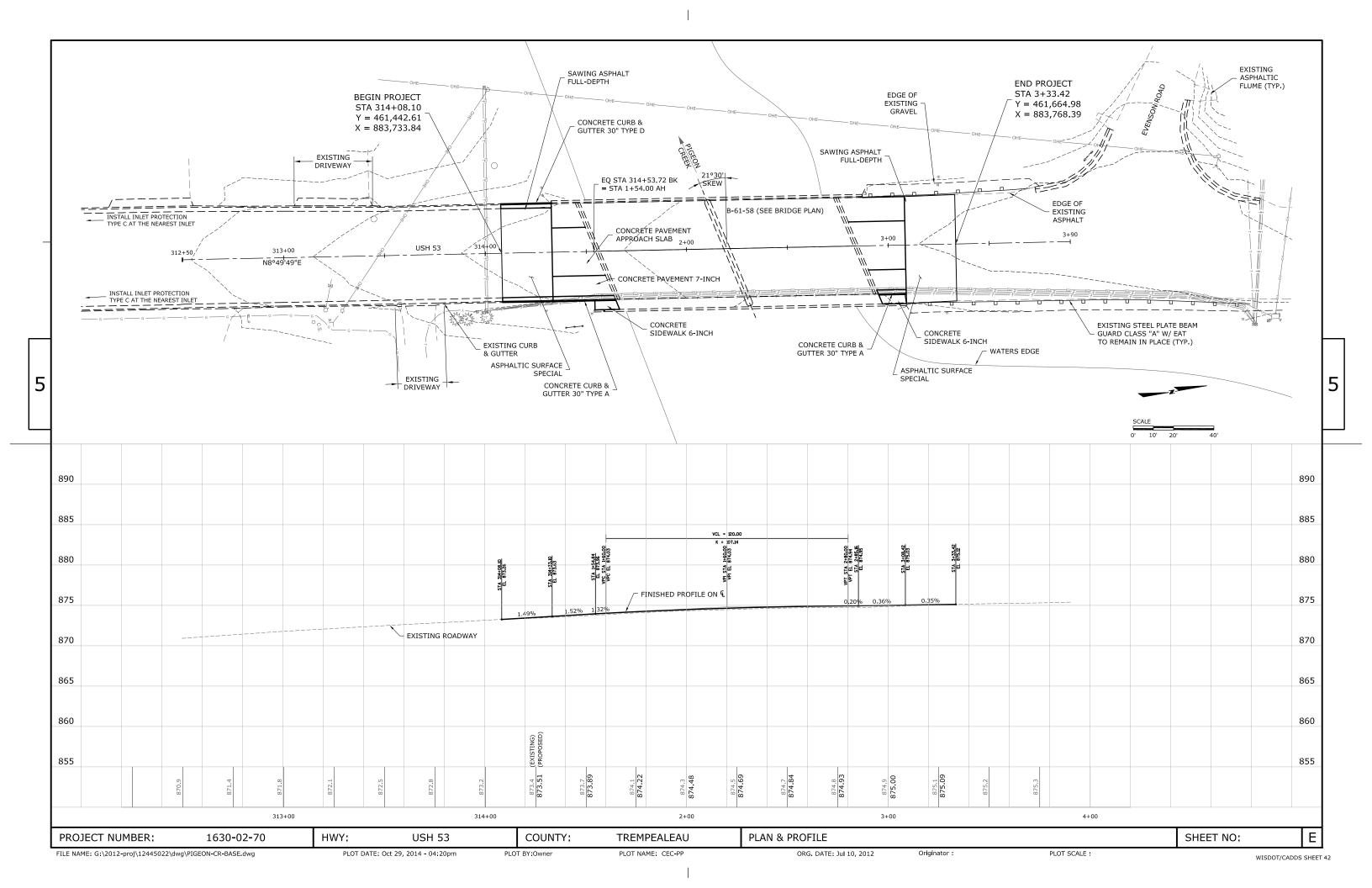


TREMPEALEAU Е PROJECT NUMBER: 1630-02-70 HWY: USH 53 COUNTY: **USH 53 TYPICAL SECTION SHEET** SHEET NO: FILE NAME: G:\2012-proj\12445022\dwg\PLAN SET\020301_ts.dwg PLOT DATE: Aug 01, 2014 - 11:48am PLOT NAME: Layout1 (3) ORG. DATE: Oct 18, 1999 Originator : J.C.A. PLOT SCALE : PLOT BY:interns2



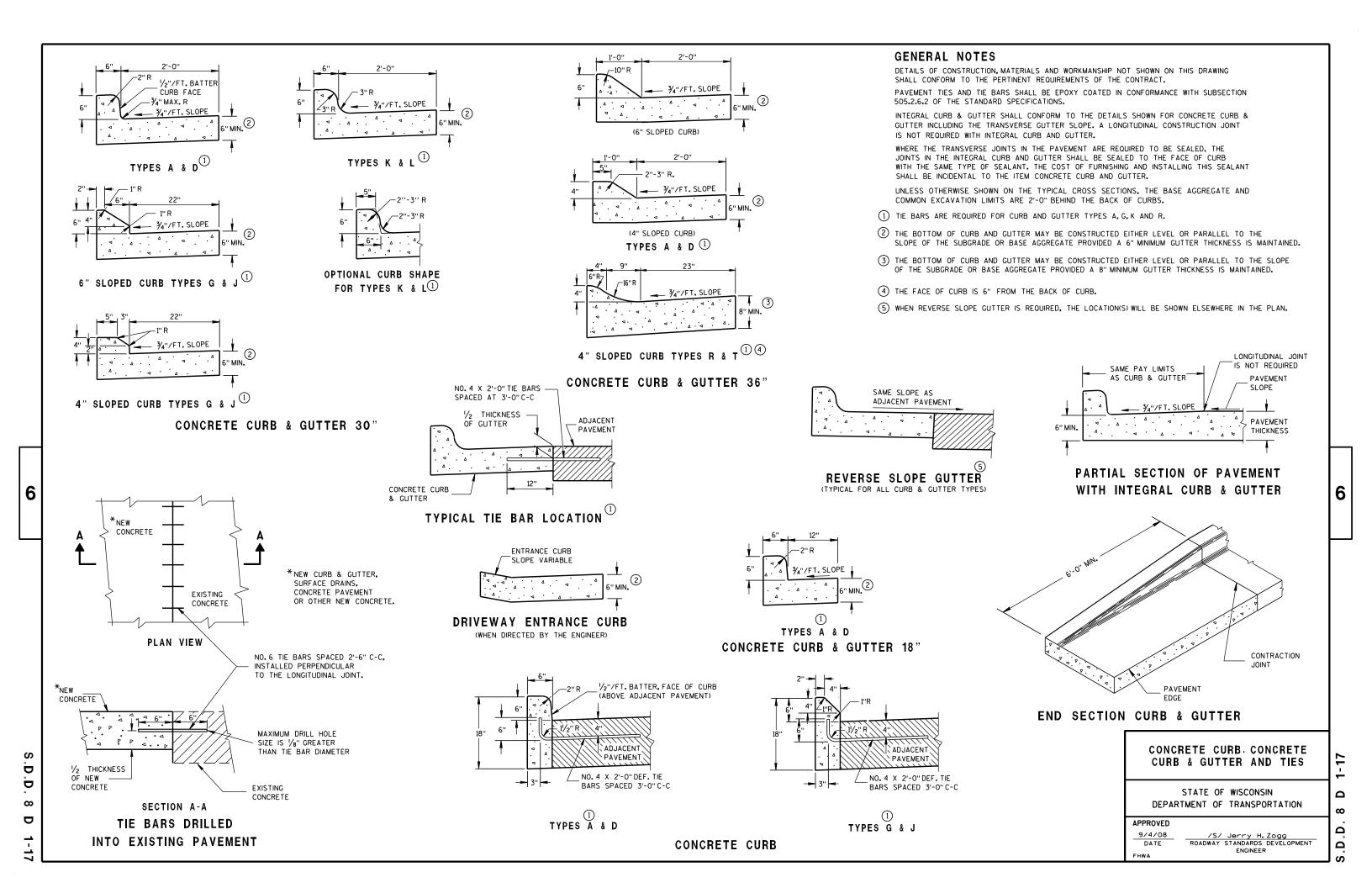
| DATE 17 LINE | 7NOV14 | E S · | TIMATE | OF QUAN | T I T I E S 1630-02-70 |
|-----------------|------------|--|--------|-------------|---------------------------|
| NUMBER | ITEM | ITEM DESCRIPTION | UNI T | TOTAL | QUANTI TY |
| 0030 | 204. 0110 | REMOVING ASPHALTIC SURFACE | SY | 230. 000 | 230. 000 |
| 0040 | 204. 0120 | REMOVING ASPHALTIC SURFACE MILLING | SY | 270. 000 | 270. 000 |
| 0050 | 204. 0150 | REMOVING CURB & GUTTER | LF | 95. 000 | 95. 000 |
| 0060 | 204. 0155 | REMOVING CONCRETE SIDEWALK | SY | 15.000 | 15. 000 |
| 0800 | 213. 0100 | FINISHING ROADWAY (PROJECT) 01. | EACH | 1.000 | 1. 000 |
| | | 1630-02-00 | | | |
| 0110 | 305. 0120 | BASE AGGREGATE DENSE 1 1/4-INCH | TON | 95.000 | 95. 000 |
| 0120 | 415. 0070 | CONCRETE PAVEMENT 7-INCH | SY | 110. 000 | 110. 000 |
| 0130 | 415.0410 | CONCRETE PAVEMENT APPROACH SLAB | SY | 120.000 | 120.000 |
| 0140 | 455.0605 | TACK COAT | GAL | 8.000 | 8. 000 |
| 0190 | 502. 3200 | PROTECTI VE SURFACE TREATMENT | SY | 710. 000 | 710. 000 |
| 0210 | 509. 0301 | PREPARATION DECKS TYPE 1 | SY | 90. 000 | 90.000 |
| 0220 | 509. 0302 | PREPARATION DECKS TYPE 2 | SY | 30.000 | 30.000 |
| 0230 | 509.0500 | CLEANING DECKS | SY | 695.000 | 695.000 |
| 0240 | 509. 1200 | CURB REPAIR | LF | 130.000 | 130.000 |
| 0250 | 509. 1500 | CONCRETE SURFACE REPAIR | SF | 10. 000 | 10. 000 |
| 0260 | 509. 2000 | FULL-DEPTH DECK REPAIR | SY | 1. 000 | 1.000 |
| 0270 | 509. 2500 | CONCRETE MASONRY OVERLAY DECKS | CY | 54.000 | 54.000 |
| 0280 | 601. 0409 | CONCRETE CURB & GUTTER 30-INCH TYPE A | LF | 45.000 | 45. 000 |
| 0290 | 601. 0411 | CONCRETE CURB & GUTTER 30-INCH TYPE D | LF | 50.000 | 50.000 |
| 0300 | 602. 0415 | CONCRETE SIDEWALK 6-INCH | SF | 110. 000 | 110. 000 |
| 0310 | 603. 8000 | CONCRETE BARRIER TEMPORARY PRECAST | LF | 312. 500 | 312. 500 |
| 0220 | 402 0125 | DELIVERED CONCRETE PARRIED TEMPORARY DRECAST | 1.5 | 42F 000 | 42F 000 |
| 0320 | 603. 8125 | CONCRETE BARRIER TEMPORARY PRECAST INSTALLED | LF | 625. 000 | 625. 000 |
| 0370 | 618. 0100 | MAINTENANCE AND REPAIR OF HAUL ROADS | EACH | 1. 000 | 1.000 |
| | | (PROJECT) 01. 1630-02-70 | | | |
| 0390 | 619. 1000 | MOBILI ZATI ON | EACH | 0. 400 | 0. 400 |
| 0450 | 628. 7015 | INLET PROTECTION TYPE C | EACH | 2. 000 | 2. 000 |
| 0480 | 642. 5001 | FIELD OFFICE TYPE B | EACH | 0. 500 | 0. 500 |
| 0490 | 643. 0100 | TRAFFIC CONTROL (PROJECT) 01.1630-02-00 | EACH | 1. 000 | 1. 000 |
| 0510 | 643. 0300 | TRAFFIC CONTROL DRUMS | DAY | 900.000 | 900. 000 |
| 0520 | 643. 0420 | TRAFFIC CONTROL BARRICADES TYPE III | DAY | 45. 000 | 45. 000 |
| 0530 | 643. 0705 | TRAFFIC CONTROL WARNING LIGHTS TYPE A | DAY | 90. 000 | 90. 000 |
| 0540 | 643. 0715 | TRAFFIC CONTROL WARNING LIGHTS TYPE C | DAY | 450. 000 | 450. 000 |
| 0550 | 643. 0900 | TRAFFIC CONTROL SIGNS | DAY | 1, 215. 000 | 1, 215. 000 |
| 0560 | 646. 0106 | PAVEMENT MARKING EPOXY 4-INCH | LF | 850. 000 | 850.000 |
| 0570 | 646. 0406 | PAVEMENT MARKING SAME DAY EPOXY 4-INCH | LF | 620.000 | 620.000 |
| 0580 | 646. 0600 | REMOVING PAVEMENT MARKINGS | LF | 970. 000 | 970. 000 |
| 0590 | 649. 0400 | TEMPORARY PAVEMENT MARKING REMOVABLE | LF | 1, 970. 000 | 1, 970. 000 |
| 0600 | 649. 1400 | TAPE 4-INCH TEMPORARY PAVEMENT MARKING STOP LINE | LF | 24. 000 | 24. 000 |
| | | REMOVABLE TAPE 24-INCH | | | |
| 0610 | 650. 9910 | CONSTRUCTION STAKING SUPPLEMENTAL CONTROL (PROJECT) 01. 1630-02-00 | LS | 1. 000 | 1. 000 |
| 0630 | 661. 0100 | TEMPORARY TRAFFIC SIGNALS FOR BRIDGES (STRUCTURE) 01. B-61-58 | LS | 1. 000 | 1. 000 |
| 0650 | 690. 0150 | SAWING ASPHALT | LF | 150. 000 | 150. 000 |
| 0//0 | CDV 2215 | CDECLAL OI CDADING CHARLAG AND | | 4 000 | 4 000 |
| 0660 | SPV. 0060 | SPECIAL O1. GRADING, SHAPING, AND | EACH | 1. 000 | 1. 000 |
| | | FINISHING STRUCTURE APPROACHES | | | |
| 0680 | SPV. 0195 | 1630-02-70 SPECIAL 01. ASPHALTIC SURFACE SPECIAL | TON | 40. 000 | 40. 000 |
| 5550 | 2. 1. 0170 | I III III III III III III III III III | | .0. 000 | .5. 555 |

| | REMOVI NG | CONCRETE CONCRETE CURB & CURB & REMOVING REMOVING GUTTER GUTTER CONCRETE INLET CURB & CONCRETE 30-INCH 30-INCH SIDEWALK PROTECTION GUTTER SIDEWALK TYPE A TYPE D 6-INCH TYPE C 204.0150 204.0155 601.0409 601.0411 602.0415 628.7015 CATEGORY STATION TO STATION LOCATION LF SY LF LF SF EA 0010 314+08 - 314+33 LT/RT 50 50 |
|--|---|--|
| 0010 314+33 - 1+55 LT/RT 46 0010 2+85 - 3+08 LT/RT 46 0010 3+08 - 3+33 LT/RT 53 2.0 - 0010 UNDI STRI BUTED | 110 - 51 58 46 120 - 59 62 53 | 0010 314+33 - 1+64 RT 31 7 31 - 52 - 0010 2+95 - 3+08 RT 14 8 14 - 58 - 0010 UNDI STRI BUTED 2 TOTAL 0010 95 15 45 50 110 2 |
| CATEGORY STATION TO STATI 0010 314+08 - 314+3 0010 314+33 - 1+55 0010 2+85 - 3+08 0010 UNDI STRI BUTED | 33 LT/RT 8 CURB & GUTTER LT/RT 44 CURB & GUTTER/SI DEWALK/APPROACH SLABS LT/RT 43 CURB & GUTTER/SI DEWALK/APPROACH SLABS | |
| | CONCRETE BARRI ER TEMPORARY TEMPORARY PRECAST PRECAST DELIVERED INSTALLED 603. 8000 603. 8125 STATION TO STATION LF LF 313+75 - 3+88 312.5 625 | TRAFFIC CONTROL TRAFFIC CONTROL TRAFFIC CONTROL TRAFFIC CONTROL TRAFFIC CONTROL TRAFFIC CONTROL TRAFFIC CONTROL TRAFFIC CONTROL BARRI CADES WARNI NG LI GHTS WARNI NG LI GHTS TRAFFIC CONTROL SI GNALS FOR DRUMS TYPE III TYPE A TYPE C SI GNS BRI DGES 643. 0300 643. 0420 643. 0705 643. 0715 643. 0900 661. 0100 CATEGORY DAYS # DAYS 1 1 215 1 |
| CATEGORY STATION TO STATION 0010 311+65 - 312+85 0010 312+85 0010 312+85 - 314+08 0010 312+85 - 3+33 0010 313+75 - 3+88 0010 3+75 - 3+88 0010 4+84 0010 4+84 | PAVEMENT PAVEMENT | GRADI NG, SHAPI NG, AND FINISHING STRUCTURE EXCAVATION APPROACHES COMMON TOPSOIL TYPE B 40 SPV. 0060. 01 ** ** ** ** CATEGORY LOCATION EA CY SY CWT LB 0010 B-61-58 1 90 5 0.01 1 TOTAL 0010 1 90 5 0.01 1 **ITEMS AND QUANTITIES LISTED FOR INFORMATION ONLY; NON-BID ITEMS |
| 0010 312+85 - 314+08 0010 312+85 - 4+84 0010 313+75 - 3+88 0010 3+33 - 4+84 0010 314+08 - 3+33 | RT 315 - RT 155 CL - 280 | |



Standard Detail Drawing List

| 08D01-17 | CONCRETE CURB, CO | NCRETE CURB AND GUT | TER AND TIES |
|-----------|-------------------|---------------------|-------------------|
| 08E10-02 | INLET PROTECTION | TYPE A, B, C AND D | |
| 09G02-03A | BRIDGE TEMPORARY | TRAFFIC SIGNAL INST | ALLATI ON |
| 09G02-03B | BRIDGE TEMPORARY | TRAFFIC SIGNAL INST | ALLATI ON |
| 09G02-03C | BRIDGE TEMPORARY | TRAFFIC SIGNAL INST | ALLATI ON |
| 13A03-05 | CONCRETE PAVEMENT | SHOULDERS | |
| 13B02-07A | CONCRETE PAVEMENT | APPROACH SLAB | |
| | | TEMPORARY PRECAST, | |
| | | TEMPORARY PRECAST, | |
| 14B07-14C | CONCRETE BARRIER | TEMPORARY PRECAST, | 12' -6" |
| 14B07-14D | CONCRETE BARRIER | TEMPORARY PRECAST, | 12' -6" |
| 14B07-14E | CONCRETE BARRIER | TEMPORARY PRECAST, | 12' -6" |
| | | TEMPORARY PRECAST, | |
| 14B07-14G | CONCRETE BARRIER | TEMPORARY PRECAST, | 12' -6" |
| 14B07-14H | CONCRETE BARRIER | TEMPORARY PRECAST, | 12' -6" |
| 15C08-16A | PAVEMENT MARKING | (MAINLINE) | |
| 15D33-03 | TRAFFIC CONTROL, | ONE LANE ROAD WITH | TEMPORARY SIGNALS |







INLET PROTECTION, TYPE A

GENERAL NOTES

INLET PROTECTION DEVICES SHALL BE MAINTAINED OR REPLACED AT THE DIRECTION OF THE ENGINEER.

MANUFACTURED ALTERNATIVES APPROVED AND LISTED ON THE DEPARTMENT'S EROSION CONTROL PRODUCT ACCEPTABILITY LIST MAY BE

WHEN REMOVING OR MAINTAINING INLET PROTECTION, CARE SHALL BE TAKEN SO THAT THE SEDIMENT TRAPPED ON THE GEOTEXTILE FABRIC DOES NOT FALL INTO THE INLET. ANY MATERIAL FALLING INTO THE INLET SHALL BE REMOVED IMMEDIATELY.

- 1) FINISHED SIZE, INCLUDING FLAP POCKETS WHERE REQUIRED, SHALL EXTEND A MINIMUM OF 10" AROUND THE PERIMETER TO FACILITATE MAINTENANCE OR REMOVAL.
- (2) FOR INLET PROTECTION, TYPE C (WITH CURB BOX), AN ADDITIONAL 18" OF FABRIC IS WRAPPED AROUND THE WOOD AND SECURED WITH STAPLES. THE WOOD SHALL NOT BLOCK THE ENTIRE HEIGHT OF THE CURB BOX OPENING.
- (3) FLAP POCKETS SHALL BE LARGE ENOUGH TO ACCEPT WOOD 2X4.



INLET PROTECTION, TYPE C (WITH CURB BOX)

INSTALLATION NOTES

TYPE B & C

TRIM EXCESS FABRIC IN THE FLOW LINE TO WITHIN 3" OF THE GRATE.

THE CONTRACTOR SHALL DEMONSTRATE A METHOD OF MAINTENANCE, USING A SEWN FLAP, HAND HOLDS OR OTHER METHOD TO PREVENT ACCUMULATED SEDIMENT FROM ENTERING THE INLET.

TYPE D

DO NOT INSTALL INLET PROTECTION TYPE D IN INLETS SHALLOWER THAN 30", MEASURED FROM THE BOTTOM OF THE INLET TO THE TOP OF THE GRATE.

TRIM EXCESS FABRIC IN THE FLOW LINE TO WITHIN 3" OF THE GRATE.

THE INSTALLED BAG SHALL HAVE A MINIMUM SIDE CLEARANCE, BETWEEN THE INLET WALLS AND THE BAG, MEASURED AT THE BOTTOM OF THE OVERFLOW HOLES, OF 3". WHERE NECESSARY THE CONTRACTOR SHALL CINCH THE BAG, USING PLASTIC ZIP TIES, TO ACHIEVE THE 3" CLEARANCE, THE TIES SHALL BE PLACED AT A MAXIMUM OF 4" FROM THE BOTTOM OF THE BAG.

INLET PROTECTION TYPE A, B, C, AND D

STATE OF WISCONSIN DEPARTMENT OF TRANSPORTATION

APPROVED

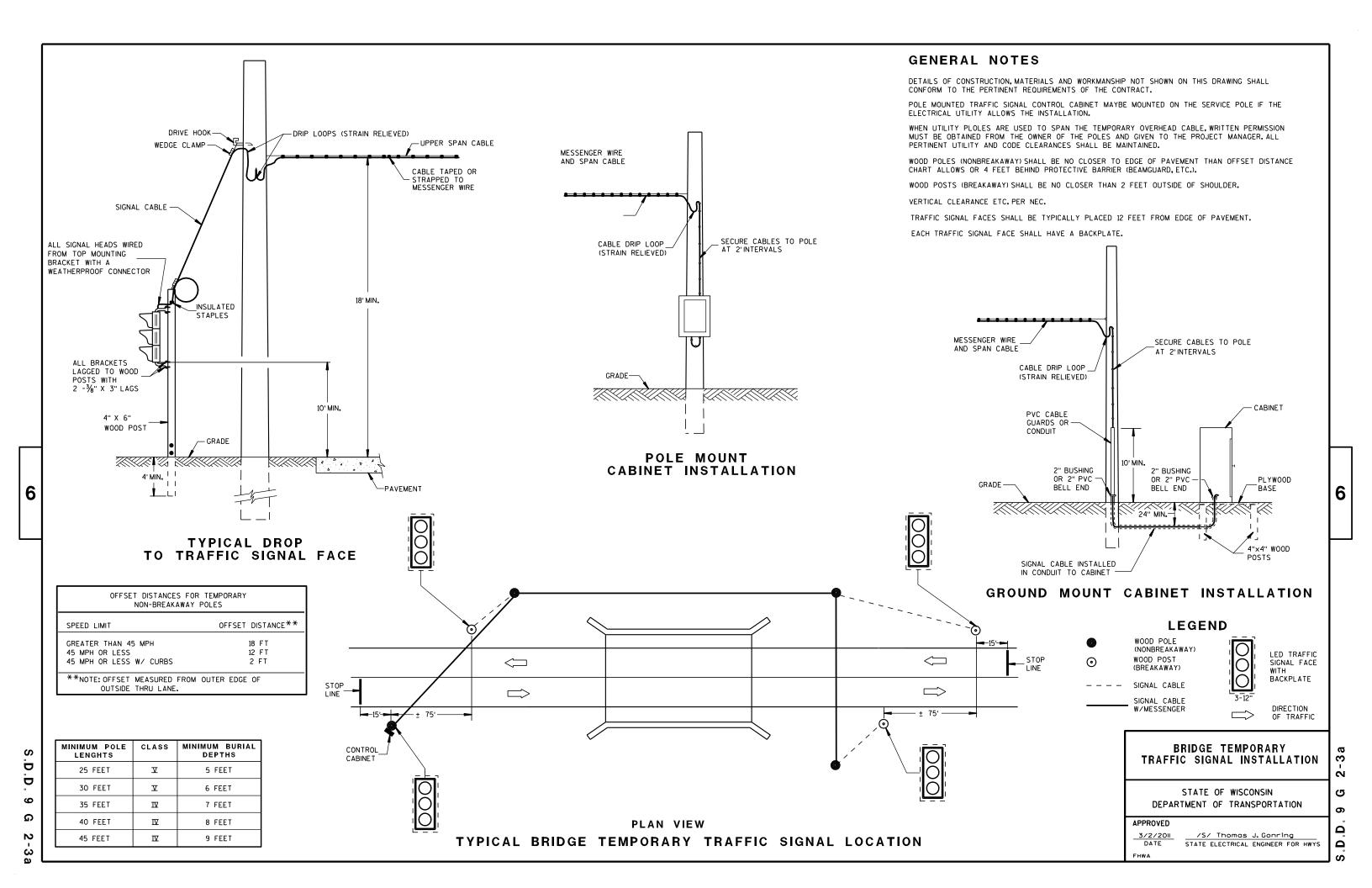
10/16/02

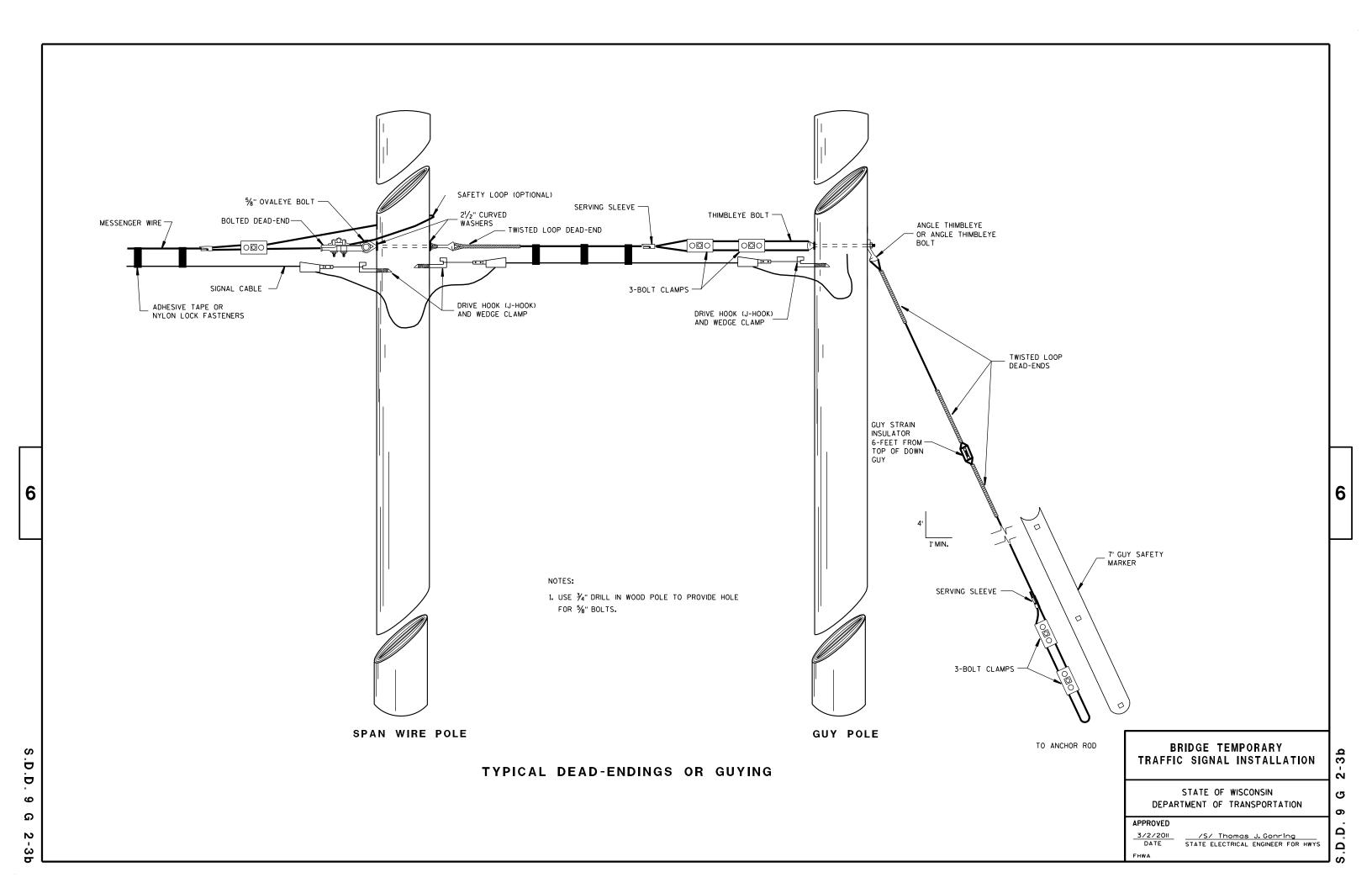
/S/ Beth Cannestra CHIEF ROADWAY DEVELOPMENT ENGINEER 6

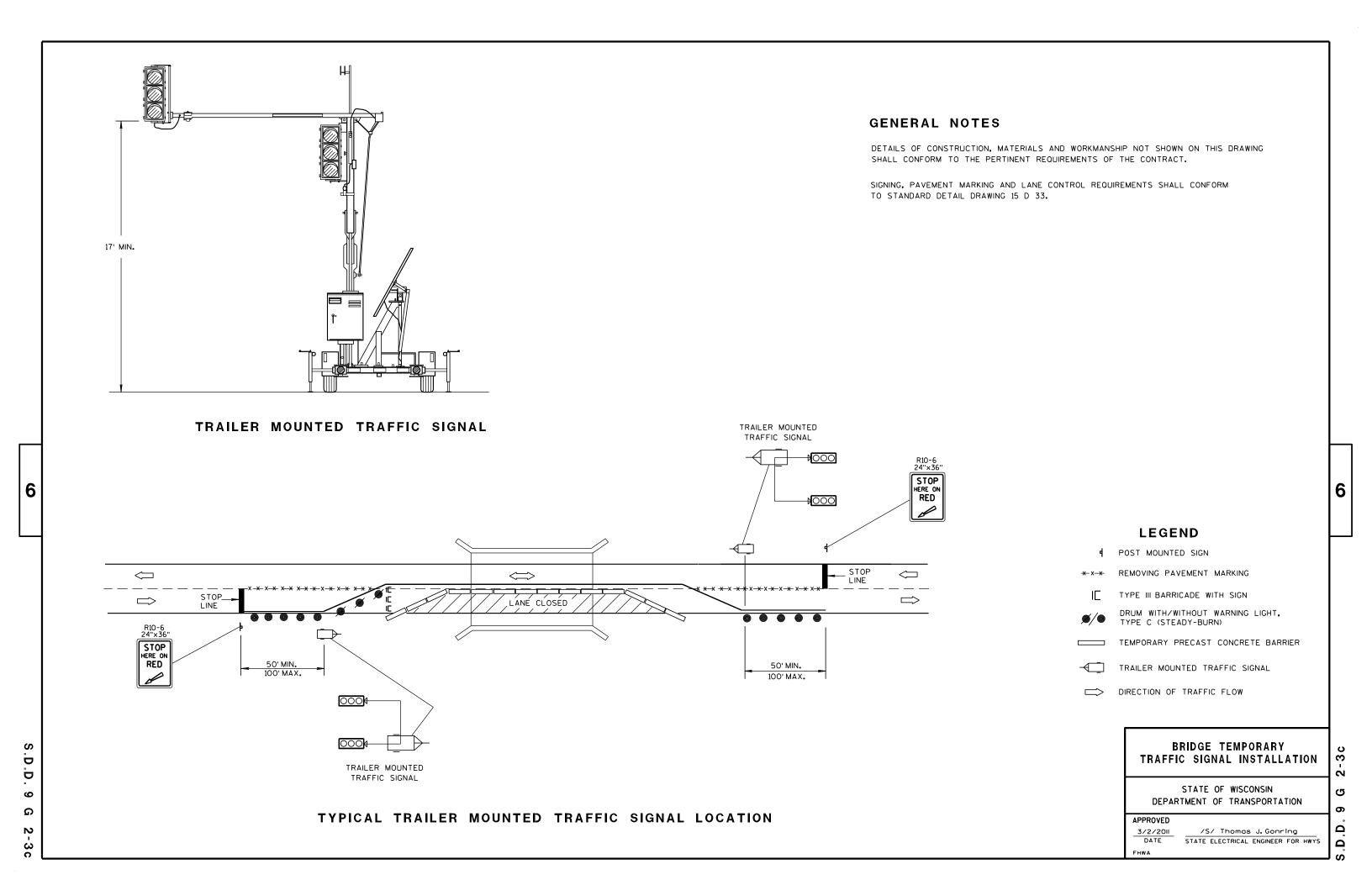
0

ш

 ∞







DOWEL BARS 1

LONGITUDINAL

1/2 TIE BAR -SPACING

JOINT

NO.4 TIE BAR-

JOINT SPACING (SEE TABLE)

1'-0"

1'-0"

SHOULDER

WIDTH

DOWEL BARS 1

TIE BAR

SPACING

(SEE

TABLE)

PLAN VIEW

CONCRETE PAVEMENT SHOULDER

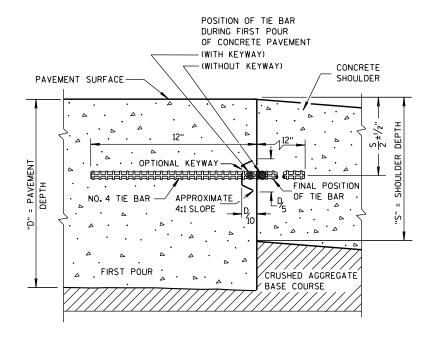
GENERAL NOTES

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.

TRANSVERSE JOINT DETAILS ARE SHOWN ELSEWHERE IN THE PLAN.

FINISH THE SHOULDER PAVEMENT CONFORMING TO SUBSECTION 415.3.8 OF THE STANDARD SPECIFICATIONS.

TIE BARS SHALL CONFORM TO SUBSECTION 505.2.4 OF THE STANDARD SPECIFICATIONS.



SECTION A-A
LONGITUDINAL CONSTRUCTION JOINT

PAVEMENT DEPTH, DOWEL BAR SIZE AND JOINT SPACING TABLE

| PAVEMENT DEPTH (D) | DOWEL BAR DIAMETER | CONTRACTION JOINT SPACING |
|--------------------------|-----------------------|---------------------------------|
| 5 ½", 6", 6 ½" | NONE | 12' |
| 7", 7 ½" | 1" | 14' |
| 8", 8 1/2" | 1 1/4" | 15' |
| 9", 9 ½" | 1 1/4" | 15' |
| 10" & ABOVE | 1 1/2" | 15' |

FOR DOWELED CONCRETE SHOULDERS WITH TRAPEZOIDAL CROSS SECTIONS, CHOSE THE APPROPRIATE DOWEL BAR DIAMETER BASED ON THE SMALLER PAVEMENT DEPTH (LIKELY THE OUTSIDE EDGE OF THE SHOULDER). IF USING BASKETS, USE BASKETS FOR THE AVERAGE THICKNESS OF THE CROSS SECTION.

| CONCRETE PAVEMENT SHOULDERS | 3-5 |
|------------------------------|-----|
| STATE OF WISCONSIN | 4 |
| DEPARTMENT OF TRANSPORTATION | 13 |

6

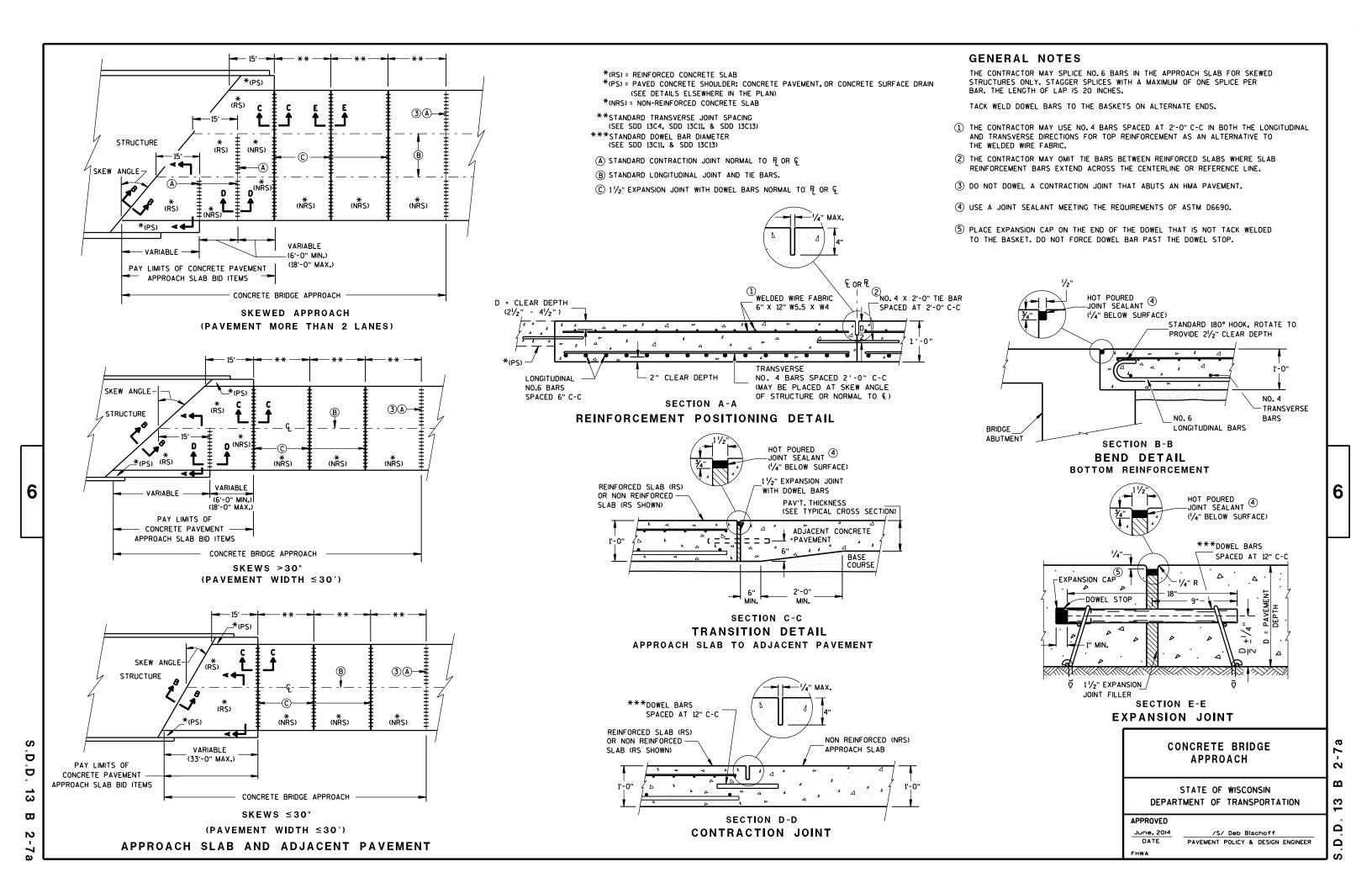
Ω

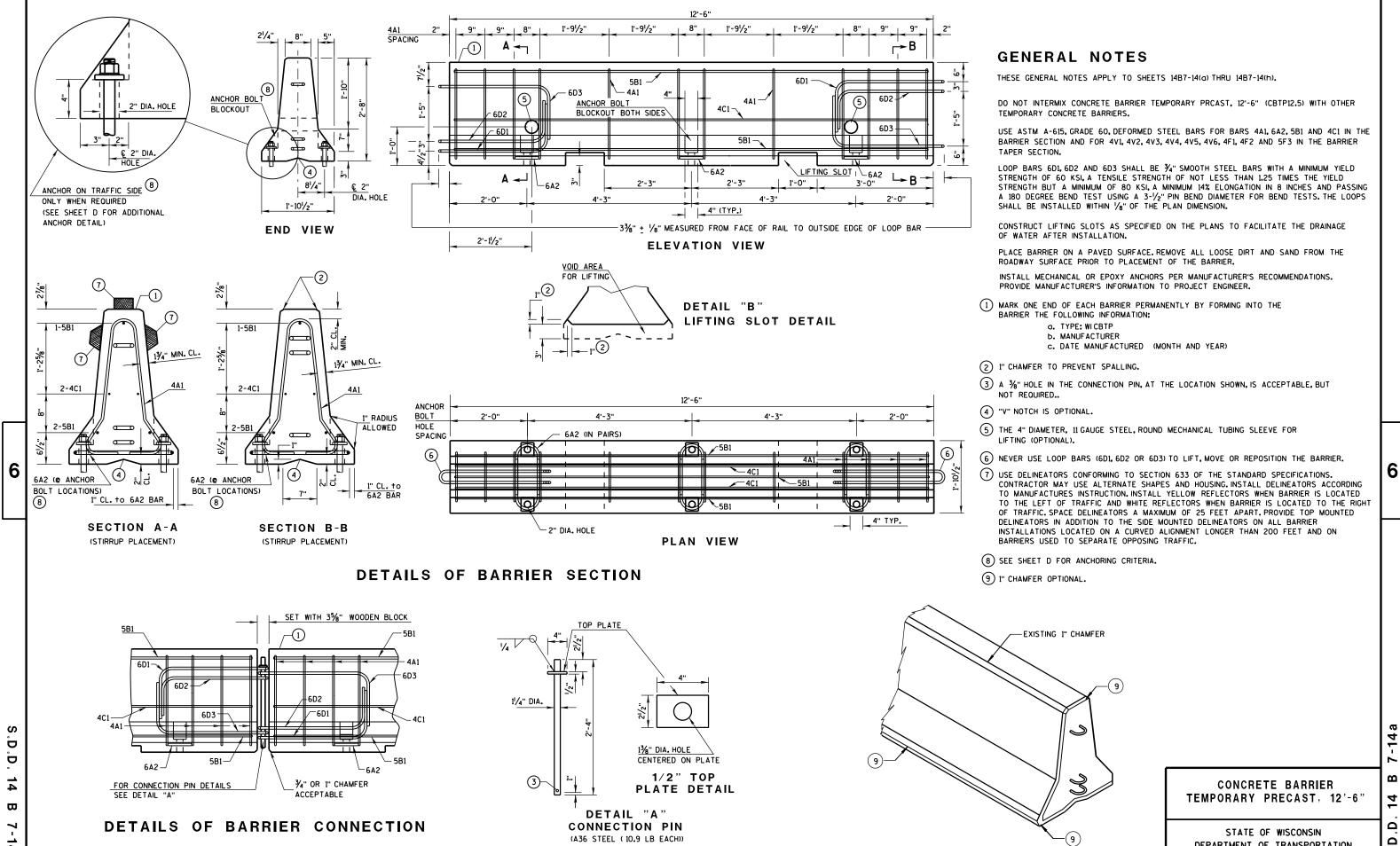
Δ

APPROVED

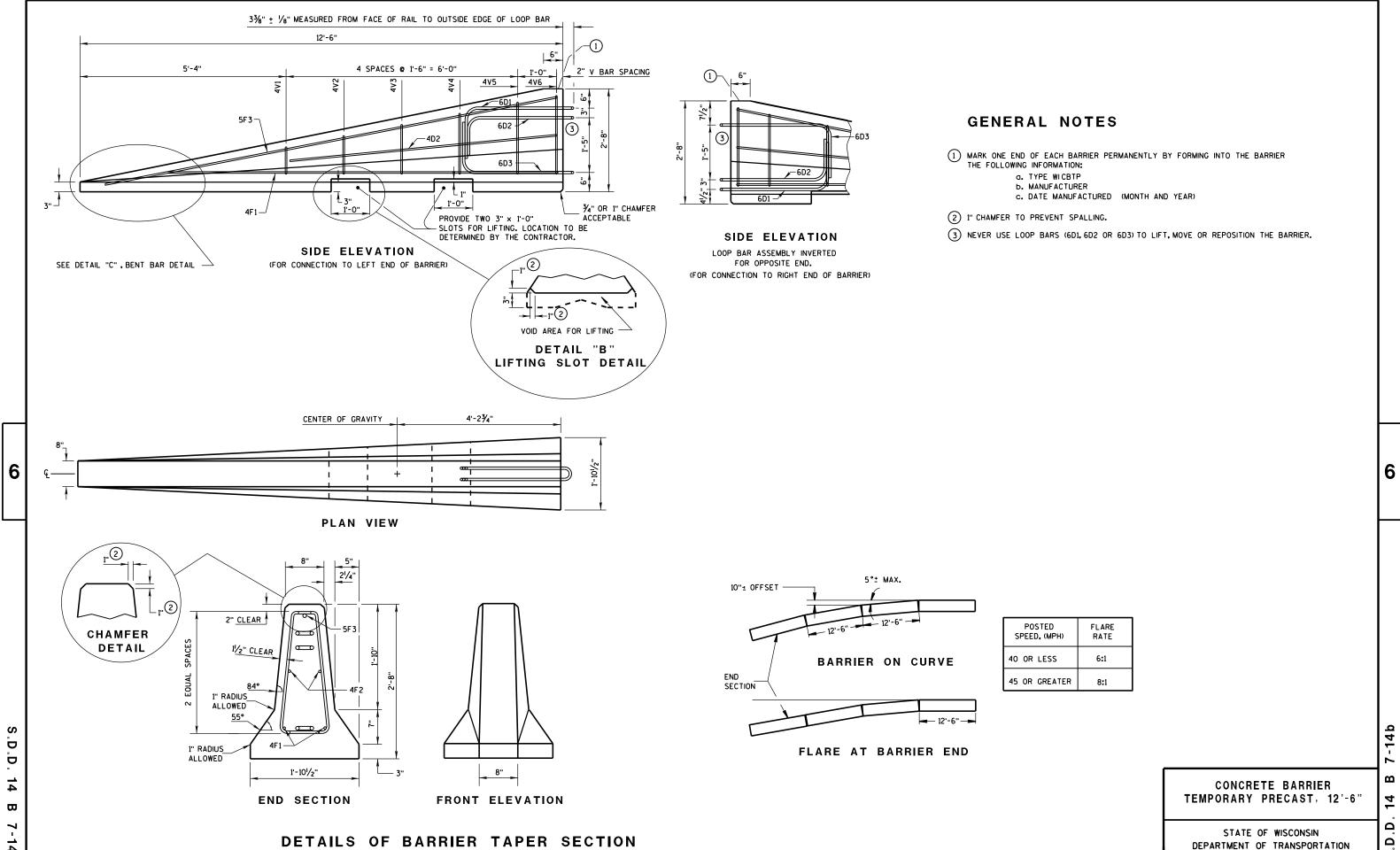
8/15/2011
DATE

PAVEMENT POLICY & DESIGN ENGINEER





DEPARTMENT OF TRANSPORTATION



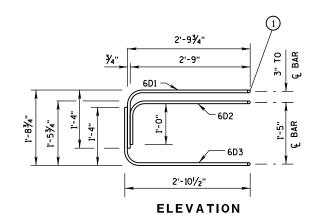
Ω

1) NEVER USE LOOP BARS (6D1, 6D2 OR 6D3) TO LIFT, MOVE OR REPOSITION THE BARRIER.

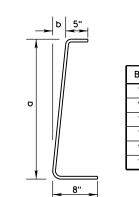
BARRIER TAPER SECTION BILL OF MATERIALS

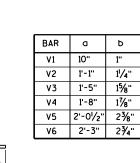
(PER 12'-6" BARRIER TAPER SECTION)

| BAR | BAR SIZE | NO. OF BARS | LENGTH FT. |
|-----|-------------|-------------------|---------------|
| 4V1 | 4 | 2 | 1'-11" |
| 4V2 | 4 | 2 | 2'-2" |
| 4٧3 | 4 | 2 | 2'-6" |
| 4V4 | 4 | 2 | 2'-9" |
| 4V5 | 4 | 2 | 3'-2" |
| 4V6 | 4 | 2 | 3'-4" |
| 4F1 | 4 | 2 | 12'-0" |
| 4F2 | 4 | 2 | 7'-6" |
| 5F3 | 5 | 1 | 11'-9" |
| L | OOP AS | SSEMBL | Υ |
| 6D1 | 6 | 1 | 8'-5" |
| 6D2 | 6 | 1 | 7'-7" |
| 6D3 | 6 | 1 | 8'-6" |
| | | • | • |



LOOP BAR ASSEMBLY





DETAIL "C" BENT BAR DETAIL

2" MIN. CLEAR

2" MIN. CLEAR

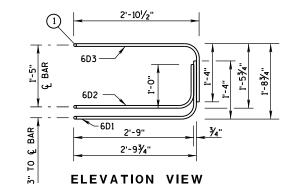
4V BARS
2 AT EACH SIZE REQUIRED
FOR STIRRUP ASSEMBLY

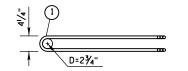
TAPER BARRIER SECTION

BARRIER SECTION BILL OF MATERIALS

(PER 12'-6" BARRIER SECTION)

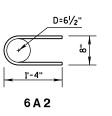
| BAR | BAR SIZE | NO. OF BARS | LENGTH FT. |
|-----|-------------|-------------------|---------------|
| 4A1 | 4 | 12 | 6'-0" |
| 6A2 | 6 | 6 | 2'-11" |
| 5B1 | 5 | 3 | 12'-2" |
| 4C1 | 4 | 2 | 12'-2" |
| L | OOP AS | SSEMBL | Υ |
| 6D1 | 6 | 2 | 8'-5" |
| 6D2 | 6 | 2 | 7'-7" |
| 6D3 | 6 | 2 | 8'-6" |

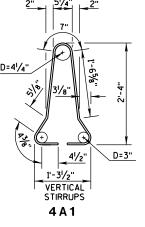




PLAN VIEW Loop bar assembly

(MARKED END SHOWN, INVERT FOR OTHER END)



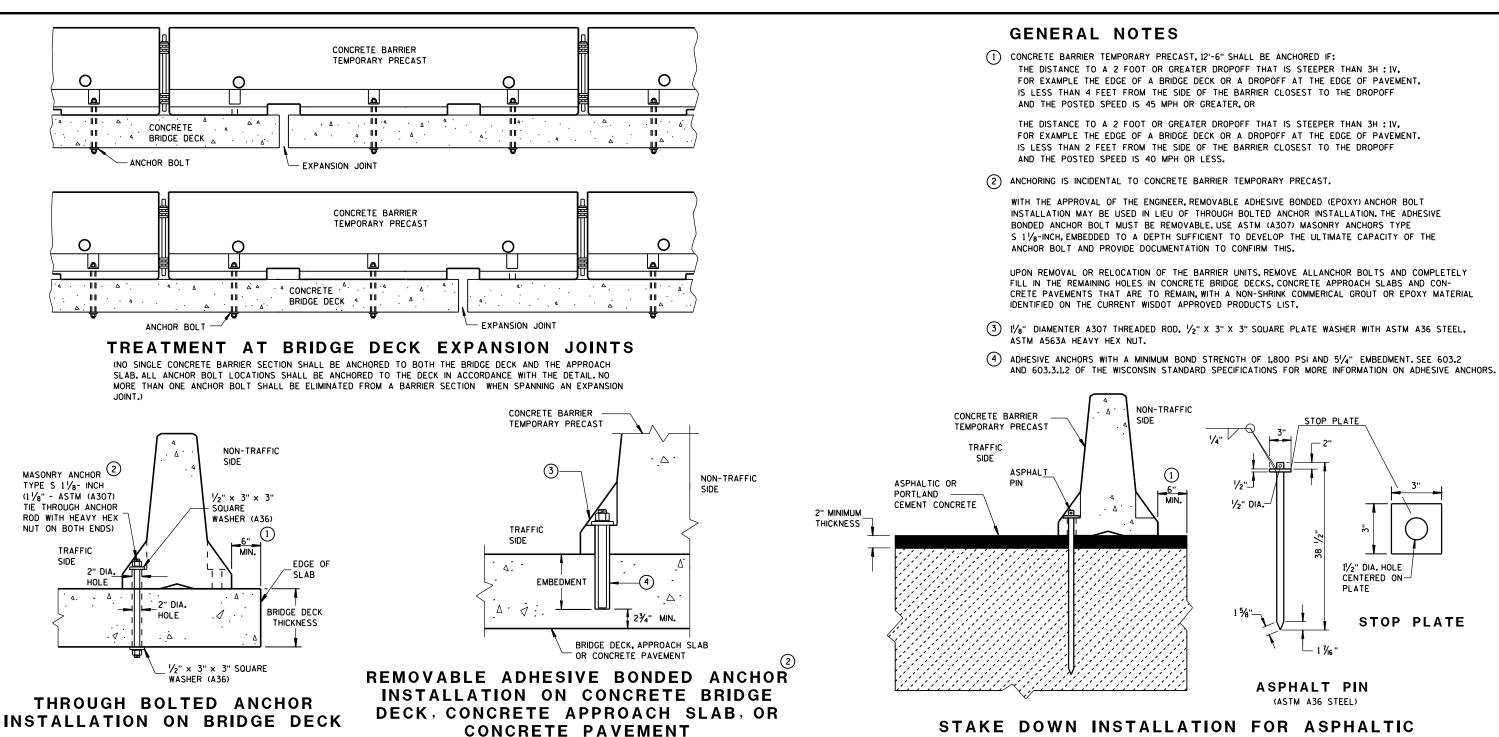


BARRIER SECTION

CONCRETE BARRIER
TEMPORARY PRECAST, 12'-6"

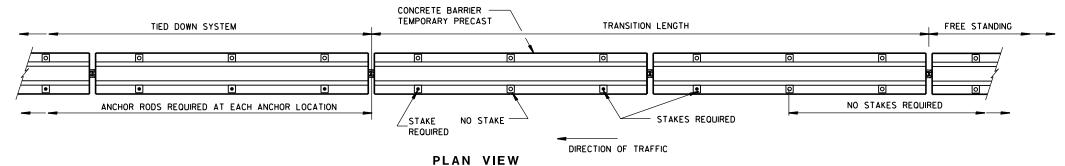
STATE OF WISCONSIN
DEPARTMENT OF TRANSPORTATION

.D.D. 14 B 7-14c



STAKE DOWN INSTALLATION FOR ASPHALTIC OR PORTLAND CEMENT CONCRETE SURFACE

(STAKING IS INCIDENTAL TO CONCRETE BARRIER TEMPORARY PRECAST)



(DO NOT USE ON CONCRETE WITH AN ASPHALTIC OVERLAY)

FREE STANDING TRANSITION TO TIED-DOWN SYSTEM (PLACE TRANSITION IN A TANGENT SECTION OF BARRIER PARALLEL TO THE ROADWAY, IF TRANSITION OCCURS ON STRUCTURAL SLAB, ANCHOR AS SHOWN,)

6

D

 \Box

(DO NOTUSE ON CONCRETE BRIDGE DECK WITH ASPHALT OVERLAY)

STATE OF WISCONSIN

CONCRETE BARRIER

TEMPORARY PRECAST, 12'-6"

11/2" DIA. HOLE

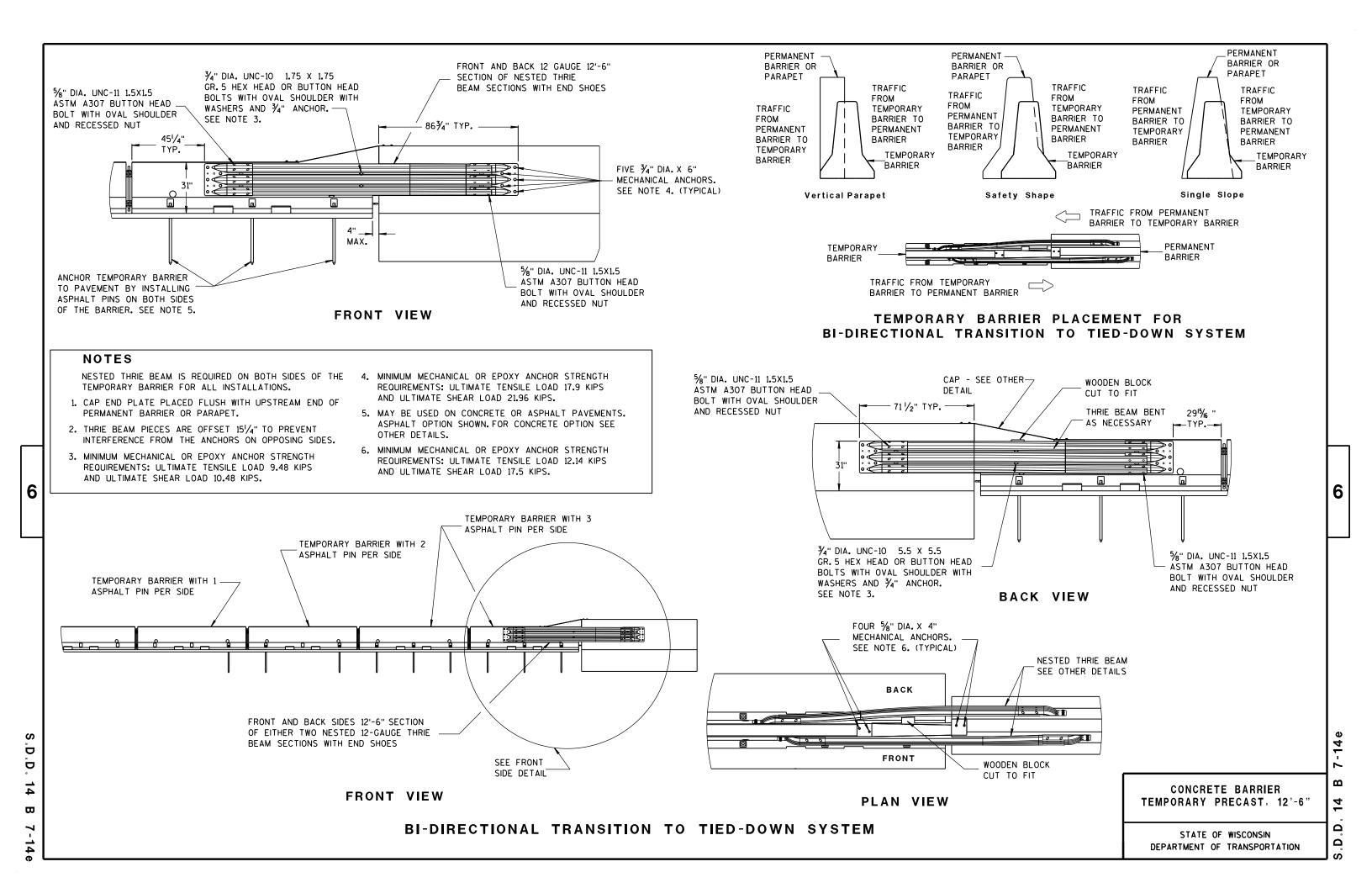
CENTERED ON-

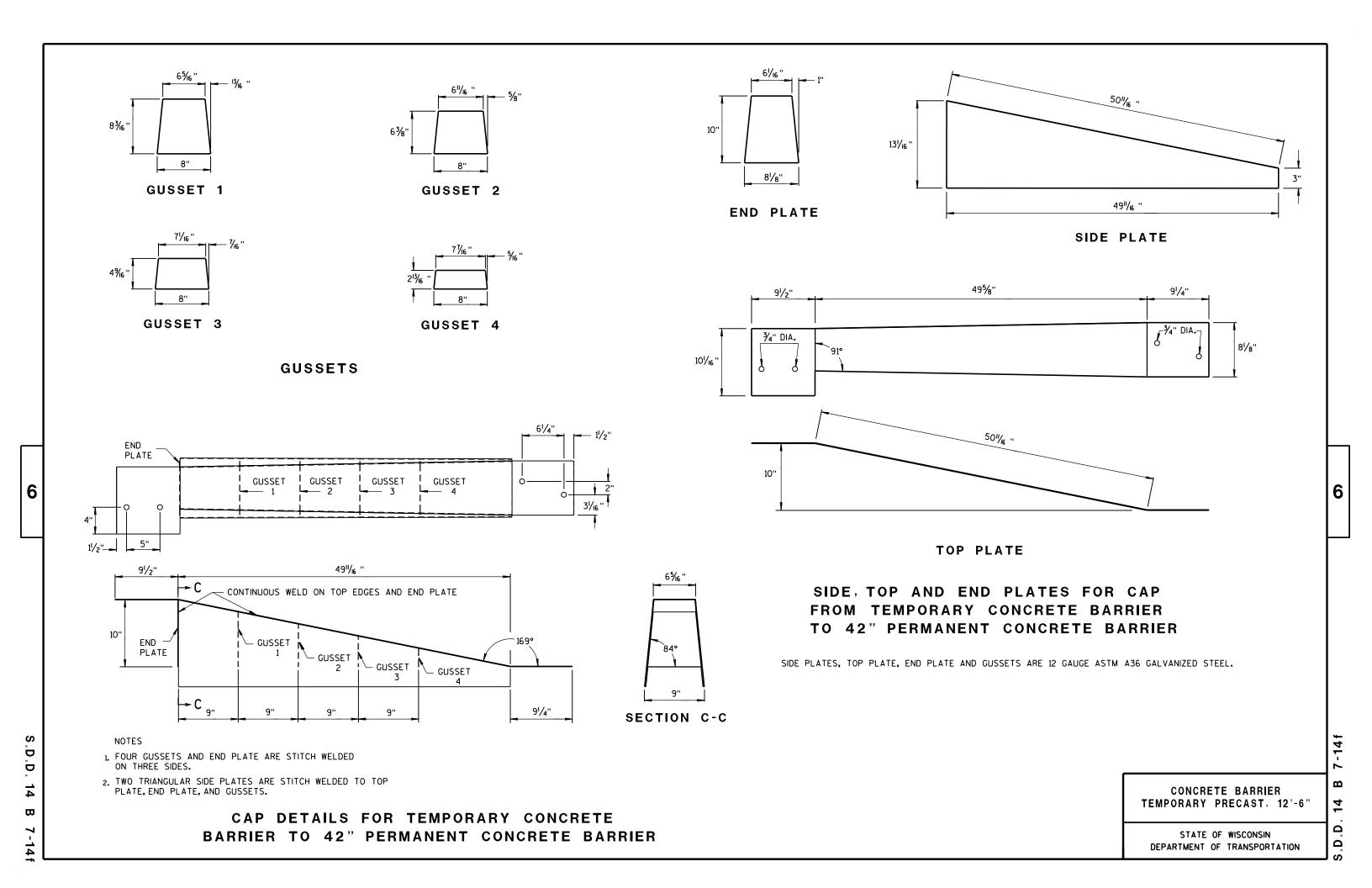
STOP PLATE

PLATE

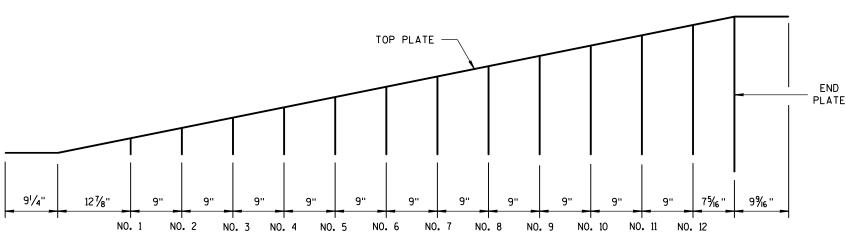
DEPARTMENT OF TRANSPORTATION

4 Δ Δ



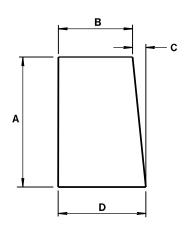


D Ď



GUSSET LOCATION

CAP DETAILS FOR TEMPORARY CONCRETE BARRIER TO 56" PERMANENT CONCRETE BARRIER



GUSSETS 1 - 12

ALL GUSSETS 1/8" STEEL PLATE

| GU | SSET | DIMEN | ISIONS | 6 |
|---------------|-------------------------------------|-----------------------------------|------------|-------------------|
| GUSSET NO. | A | В | С | D |
| 1 | 21/8" | 73/4" | 1/4" | 8 |
| 2 | 4"/16 " | 7% " | 1/2" | 8 |
| 3 | 61/2" | 73/8" | 11/16 " | 8½6" |
| 4 | 85%" | 73/16" | ⅓ " | 81/16" |
| 5 | 101/8" | 7'' | 1 1/16 " | 81/16" |
| 6 | 11 ¹⁵ / ₁₆ '' | 6 ¹³ // ₆ " | 1 1/4" | 81/16" |
| 7 | 13¾" | 65%" | 1 1/6" | 81/16 " |
| 8 | 15% " | 6⅓6" | 1 % " | 81/16" |
| 9 | 173/8" | 6 ¹ /4" | 1 13/16 " | 81/16" |
| 10 | 193/6" | 6½ ₆ " | 1 15/16 " | 81/16 " |
| 11 | 21" | 5 1/8" | 23/6" | 8½ ₆ " |
| 12 | 22 ¹³ / ₁₆ " | 5 ¹¹ / ₁₆ " | 25/6" | 8½ ₆ " |

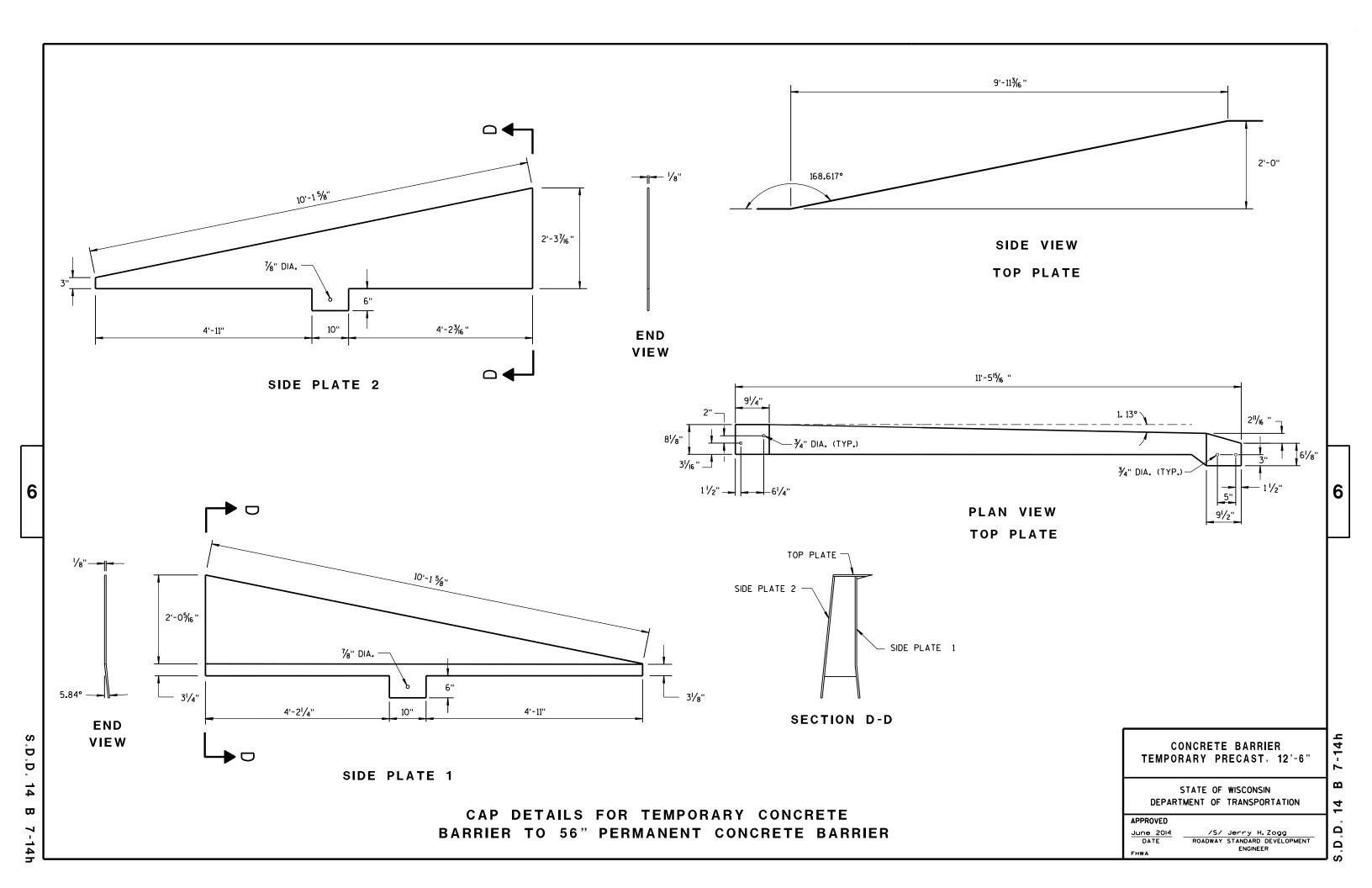
SIDE PLATES, TOP PLATE, END PLATE AND GUSSETS ARE 12 GAUGE ASTM A36 STEEL AND GALVANIZED.

GUSSETS AND END PLATE ARE STITCH WELDED ON 3 SIDES. TWO TRIANGULAR SIDE PLATES ARE STITCH WELDED TO TOP PLATE, END PLATE AND GUSSETS.

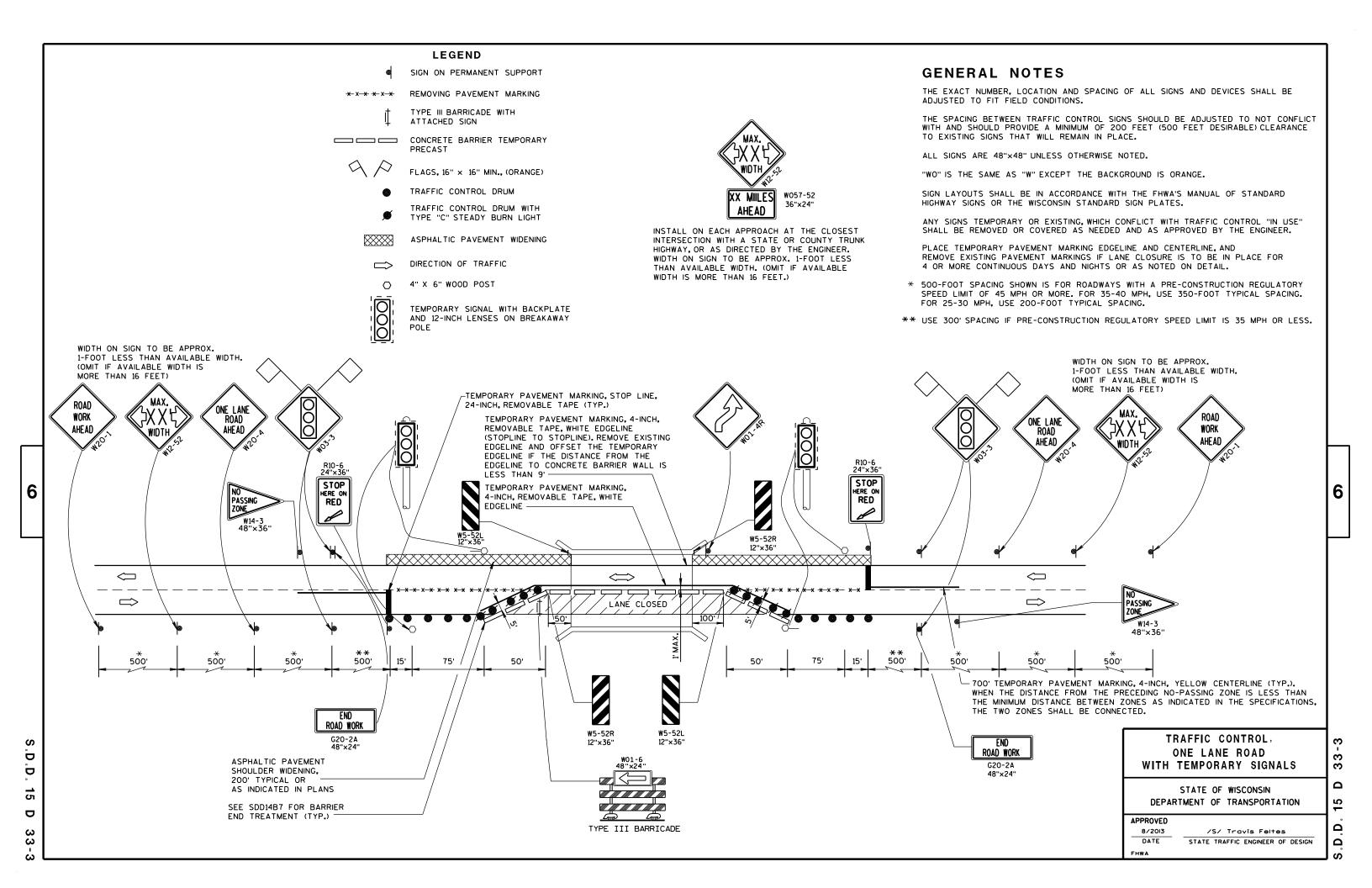
> CONCRETE BARRIER TEMPORARY PRECAST, 12'-6"

STATE OF WISCONSIN DEPARTMENT OF TRANSPORTATION

Ω Ω









1630-02-70

GENERAL NOTES

THE WORK INCLUDED CONCRETE MILL AND OVERLAY & CURB REPAIR.

DRAWINGS SHALL NOT BE SCALED.

DIMENSIONS ARE BASED ON ORIGINAL DRAWINGS.

ANY EXCAVATION REQUIRED TO COMPLETE THE OVERLAY AT THE ABUTMENTS IS TO BE CONSIDERED INCIDENTAL TO THE BID ITEM "CONCRETE MASONRY OVERLAY DECKS".

CONTACT THE BUREAU OF STRUCTURES BEFORE PLACEMENT OF OVERLAY IF THE AVERAGE THICKNESS OF THE NEW OVERLAY WILL EXCEED THE AVERAGE OVERLAY SHOWN ON THE PLANS BY MORE THAN 1/5".

PREPARATION DECKS TYPE 1, PREPARATION DECKS TYPE 2, FULL-DEPTH DECK REPAIR, AND CONCRETE SURFACE REPAIR AREAS SHALL BE DETERMINED BY THE FIELD ENGINEER.

ALL REMOVAL LINES SHALL BE DEFINED BY A 1" DEEP SAW CUT AT THE CONCRETE SURFACES.

PROTECTIVE SURFACE TREATMENT SHALL BE APPLIED TO THE ENTIRE TOP SURFACE OF THE NEW CONCRETE OVERLAY AND TO THE EXPOSED FACE OF THE CONCRETE CURB REPAIR.

ELEVATIONS ARE REFERENCE TO THE NAVD88 DATUM.

DESIGN DATA

| INVENTORY RATING OPERATING RATING MAX. STD. PERMIT VEHICLE LOAD ULTIMATE DESIGN STRESSES: | HS17 HS28 190 KIPS |
|---|--------------------------|
| CONCRETE MASONRY SLAB ALL OTHER | |

LIST OF DRAWINGS

BAR STEEL REINFORCEMENT HS BRIDGES ______fy = 60,000psi

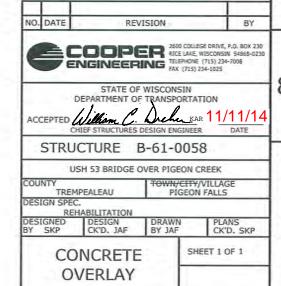
1. CONCRETE OVERLAY

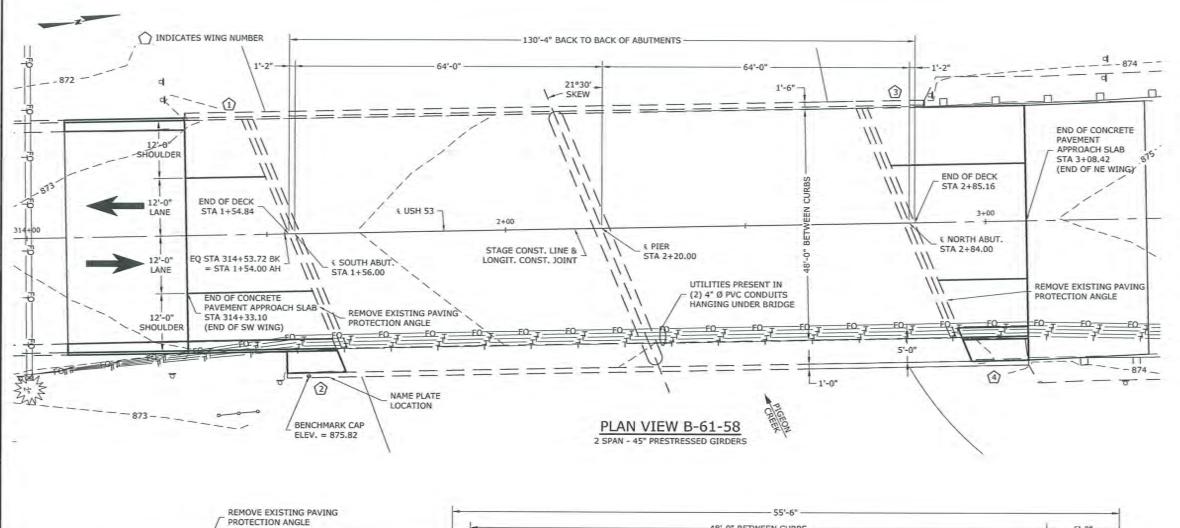
BENCH MARK

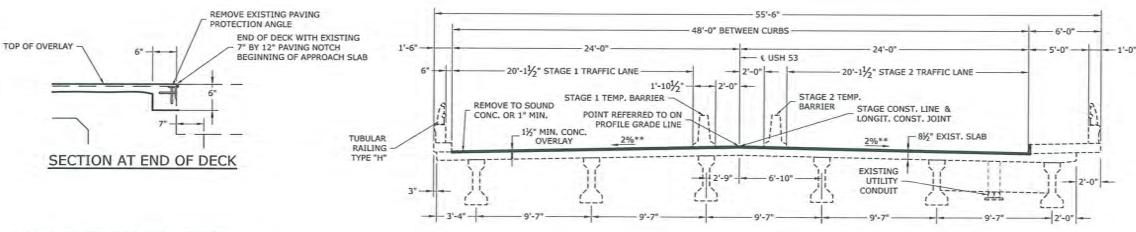
EXISTING BENCH MARK ON B-61-0058 ELEVATION = 875.82

WISDOT BRIDGE OFFICE CONTACT: WILLIAM DREHER (608) 266-8489

DESIGN CONSULTANT CONTACT: STEVE POETHKE (715) 234-7008







TOTAL ESTIMATED QUANTITIES

| BID ITEM NO. | BID ITEMS | UNIT | TOTAL |
|--------------|--------------------------------|------|-------|
| 502.3200 | PROTECTIVE SURFACE TREATMENT | SY | 710 |
| 509.0301 | PREPARATION DECKS TYPE 1 | SY | 90 |
| 509.0302 | PREPARATION DECKS TYPE 2 | SY | 30 |
| 509.0500 | CLEANING DECKS | SY | 695 |
| 509.1200 | CURB REPAIR | LF | 130 |
| 509.1500 | CONCRETE SURFACE REPAIR | SF | 10 |
| 509.2000 | FULL-DEPTH DECK REPAIR | SY | 1 |
| 509.2500 | CONCRETE MASONRY OVERLAY DECKS | CY | 54 |

WHITE THE PARTY OF THE PARTY OF

CROSS SECTION THRU ROADWAY - USH 53

PROVIDE 2" MIN, COVER 1° MIN. OR SOUND CONCRETE UTILIZE EXISTING REINFORCEMENT

** EXISTING CROSS SLOPE = 1.5%

CURB DETAIL



Wisconsin Department of Transportation

Dedicated people creating transportation solutions through innovation and exceptional service.

http://www.dot.wisconsin.gov

JANUARY 2015

ORDER OF SHEETS

| Section No. | 1 | Title |
|-------------|-------|--|
| Section No. | 2 | Typical Sections and Details |
| Section No. | 3 | Estimate of Quantities |
| Section No. | 3 | Miscellaneous Quantities |
| Section No. | · · · | Right of Way Plat |
| Section No. | 5 | Plan and Profile (Includes Erosion Control Pla |
| Section No. | 6 | Standard Detail Drawings |
| | | |

Structure Plans

TOTAL SHEETS = 44

PROJECT LOCATION

DESIGN DESIGNATION

| A.D.T. (2015) | = 2,775 |
|---------------|------------|
| A.D.T. (2035) | = 3,300 |
| D.H.V. (2035) | = 132 (4%) |
| D.D. | = 60-40 |
| T. (A.D.T.) | = 6.0% |
| DESIGN SPEED | ≈ 55 MPH |
| ECALC | - 510 200 |

CONVENTIONAL SYMBOLS

| C1 11 | |
|-----------------------------------|--------|
| PLAN | |
| CORPORATE LIMITS | 9///// |
| PROPERTY LINE | |
| LOT LINE | |
| LIMITED HIGHWAY EASEMENT | |
| EXISTING RIGHT OF WAY | |
| PROPOSED OR NEW R/W LINE | |
| SLOPE INTERCEPT | |
| REFERENCE LINE | 000 |
| EXISTING CULVERT | |
| PROPOSED CULVERT (Box or Pipe) | |
| COMBUSTIBLE FLUIDS | CALTON |
| MARSH AREA | |

PROFILE GRADE LINE ORIGINAL GROUND MARSH OR ROCK PROFILE (To be noted as such) SPECIAL DITCH GRADE ELEVATION CULVERT (Profile View) UTILITIES SANITARY SEWER STORM SEWER TELEPHONE UTILITY PEDESTAL POWER POLE TELEPHONE POLE

STATE OF WISCONSIN DEPARTMENT OF TRANSPORTATION

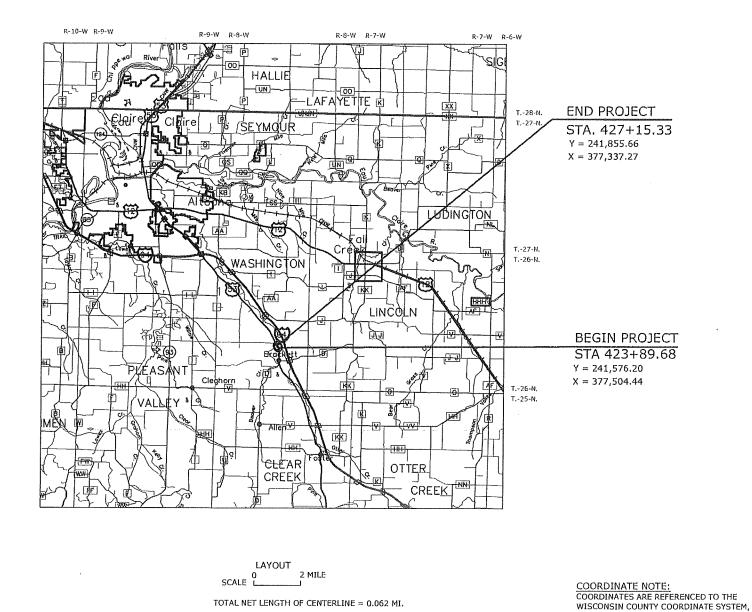
PLAN OF PROPOSED IMPROVEMENT

OSSEO - EAU CLAIRE

BEAVER CREEK BRIDGE B-18-0087 **USH 53**

EAU CLAIRE COUNTY

STATE PROJECT NUMBER 7905-03-72



FEDERAL PROJECT STATE PROJECT PROJECT CONTRACT 7905-03-72 WISC 2015017

> PREPARED BY STATE OF WISCONSIN DEPARTMENT OF TRANSPORTATION PREPARED BY COOPER ENGINEERING COOPER ENGINEERING DAN OJIBWAY TIMOTHY MASON

FILE NAME: G:\2012-proj\12445023\dwg\Plan Set\010101_ti.dwg

WOODED OR SHRUB AREA

PLOT DATE: Aug 01, 2014 - 12:01pm

PLOT BY:Interns2

ORG. DATE: Dec 05, 2007

EAU CLAIRE COUNTY.

TOTAL NET LENGTH OF CENTERLINE = 0.062 MI.

WISDOT/CADDS SHEET 42

UTILITIES

LIST OF STANDARD ABBREVIATIONS

LENGTH OF CURVE

| ABUT | ABUTMENT | | |
|--------------|----------------------------------|--------------|------------------------------------|
| AC . | ACRES | LT. | LEFT |
| AGG | AGGREGATE | LS | LUMP SUM |
| AH | AHEAD | MH | MANHOLE |
| ADT | AVERAGE DAILY TRAFFIC | N | NORTH |
| ,,,,,, | 7.17.11.10.2 27.11.21 7.10.11.12 | PAVT | PAVEMENT |
| AVG. | AVERAGE | PC | POINT OF CURVATURE |
| AVG. ASPH | ASPHALTIC | PE | |
| | | | PRIVATE ENTRANCE |
| BK. | BACK | PI | POINT OF INTERSECTION |
| BM | BENCHMARK | PL | PROPERTY LINE |
| Δ | CENTRAL ANGLE OR DELTA | PP | POWER POLE |
| C, C/L | CENTERLINE | PT | POINT OF TANGENCY |
| C & G | CURB AND GUTTER | R | RANGE , RADIUS |
| CABC | CRUSHED AGGREGATE | RCCP | REINFORCED CONCRETE |
| | BASE COURSE | | CULVERT PIPE |
| CONC. | CONCRETE | RD | ROAD |
| | | REBAR | REINFORCEMENT BAR |
| COR | CORNER | REQD | REQUIRED |
| CORR | CORRUGATED | RDWY | ROADWAY |
| CSCP | CORRUGATED STEEL | | |
| | CULVERT PIPE | RHF | RIGHT HAND FORWARD |
| CSPA | CORRUGATED STEEL | RL, R/L | REFERENCE LINE |
| | PIPE ARCH | RR | RAILROAD |
| CTH | COUNTY TRUNK HIGHWAY | RT. | RIGHT |
| CP. | CULVERT PIPE | K/W, KU S | W RIGHT-OF-WAY SOUTH |
| CY. | CUBIC YARD | | |
| CWT. | HUNDREDWEIGHT | SAN S SDD | SANITARY SEWER |
| DIA | DIAMETER | | STANDARD DETAIL DRAWING |
| D | DEGREE OF CURVE | SE | SUPER ELEVATION |
| DHV | DESIGN HOURLY VOLUME | SF. | SQUARE FEET |
| DWY | DRIVEWAY | SHLDR | SHOULDER |
| EBS | EXC. BELOW SUB GRADE | SPECS SQ. | SPECIFICATIONS |
| | _ ELEVATION | - | SQUARE STORM SEWER |
| ELEC. | ELECTRIC | SS. SY. | STORM SEWER |
| EXC | EXCAVATION | STH | SQUARE YARD STATE TRUNK HIGHWAY |
| EXIST | EXISTING | ST. | STREET |
| E | EAST | STA. | STATION |
| FE | FIELD ENTRANCE | SW | SIDEWALK |
| FF. | FACE TO FACE | T | TANGENT |
| FL, F/L | FLOW LINE | TC . | TOP OF CURB |
| G, . | GARAGE | TL, T/L | TRANSIT LINE |
| GN | GRID NORTH | TEL | TELEPHONE |
| H | HOUSE | TEMP | TEMPORARY |
| ** | HOUSE | TLE | TEMPORARY LIMITED EASEMENT |
| | | TYP | TYPICAL |
| HYD | HYDRANT | USH | UNITED STATES HIGHWAY |
| I | INTERSECTION ANGLE | UG | UNDERGROUND |
| INTERS | INTERSECTION | V | DESIGN SPEED |
| INV. | INVERT | VAR. | VARIABLE |
| IP. | IRON PIN OR PIPE | VERT | VERTICAL |
| LC | LONG CHORD OF CURVE | | |
| | 20.13 GIORD OF CORVE | YD | YARD |
| LF | LINEAR FOOT | | |
| LHF | LEFT HAND FORWARD | | |
| LITE | LLI I HAND FURWARD | | |

COMMUNICATIONS
CENTURYLINK
ATTN.: DONNA SMOTHERS
835 RED IRON ROAD
BLACK RIVER FALLS, WI 54615
TEL.: 715-284-4375
EMAIL: donna.smothers@centurylink.com
24-HOUR EMERGENCY REPAIR 1-800-824-2877

ELECTRIC EAU CLAIRE ENERGY COOP ATTN.: DON DRAEGER 8214 USH 12 FALL CREEK, WI 54742 TEL.: 715-832-1603



** NOT A MEMBER OF DIGGERS HOTLINE.

OTHER CONTACTS

D.N.R. ENVIRONMENTAL REVIEW COORDINATOR CHRIS WILLGER
1300 W. CLAIREMONT AVENUE
EAU CLAIRE, WI 54702
TEL.: 715-839-1609
EMAIL: christopher.willger@wisconsin.gov



2600 COLLEGE DRIVE, P.O.B. 230 RICE LAKE, WISCONSIN 54868-0230 TELEPHONE (715) 234-7008 FAX (715) 234-1025

GENERAL NOTES:

NO TREES OR SHRUBS SHALL BE REMOVED UNLESS SUCH TREES OR SHRUBS HAVE BEEN DESIGNATED FOR REMOVAL BY THE ENGINEER.

DISTURBED AREAS WITHIN THE RIGHT OF WAY ARE TO BE TOPSOILED, FERTILIZED, E-MATED, AND SEEDED AS DIRECTED BY THE ENGINEER.

PLAN SHEETS SHOW EXISTING UTILITIES THAT ARE WITHIN THE LIMITS OF THE PROPOSED CONSTRUCTION. THERE MAY BE UTILITIES WITHIN THE RIGHT OF WAY THAT ARE NOT SHOWN ON THE PLANS.

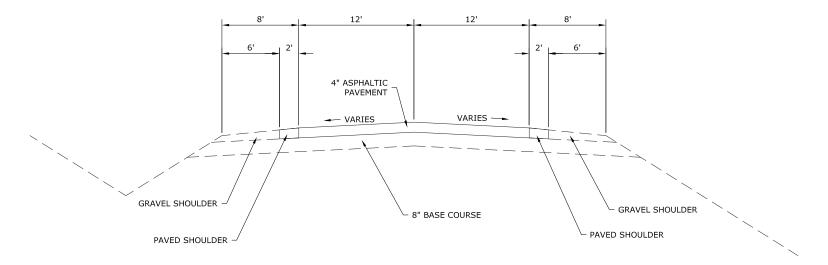
RUNOFF COEFFICIENT TABLE

| | HYDROLOGIC SOIL GROUP | | | | | | | | | | | | | |
|-----------------------|-----------------------|------------|------------|------------|------------|------------|------------|------------|------------|-----------------|------------|------------|--|--|
| | | Α | | В | | | | (| 0 | D | | | | |
| | SLOPE RANGE (%) | | | SL | OPE R | ANGE (%) | SL | OPE RA | ANGE (%) | SLOPE RANGE (%) | | | | |
| LAND USE: | 0-2 | 2-6 | 6 & OVER | 0-2 | 2-6 | 6 & OVER | 0-2 | 2-6 | 6 & OVER | 0-2 | 2-6 | 6 & OVER | | |
| ROW CROPS | .08 .22 | .16 .30 | .22 .38 | .12 .26 | .20 .34 | .27 .44 | .15 .30 | .24 .37 | .33 .50 | .19 .34 | .28 .41 | .38 .56 | | |
| MEDIAN STRIP- TURF | .19 .24 | .20 .26 | .24 .30 | .19 .25 | .22 .28 | .26 .33 | .20 .26 | .23 .30 | .30 .37 | .20 .27 | .25 .32 | .30 .40 | | |
| SIDE SLOPE- TURF | | | .25 .32 | | | .27 .34 | | | .28 .36 | | | .30 .38 | | |
| PAVEMENT: | | | | | | • | • | | • | | | • | | |
| ASPHALT | | | .: | 7095 | 5 | | | | | | | | | |
| CONCRETE | | | 3. | 3095 | ; | | | | | | | | | |
| BRICK | | | | 7080 |) | | | | | | | | | |
| DRIVES, WALKS | RIVES, WALKS .7585 | | | | | | | | | | | | | |
| ROOFS | OOFS .7595 | | | | | | | | | | | | | |
| GRAVEL ROADS, | SHOUL | DERS | .4 | 060 | | | | | | | | | | |

TOTAL PROJECT AREA = 24 ACRES
TOTAL AREA EXPECTED TO BE DISTURBED BY CONSTRUCTION ACTIVITIES = 24 ACRES

PROJECT NUMBER: 7905-03-72 HWY: USH 53 COUNTY: EAU CLAIRE GENERAL NOTES SHEET NO:

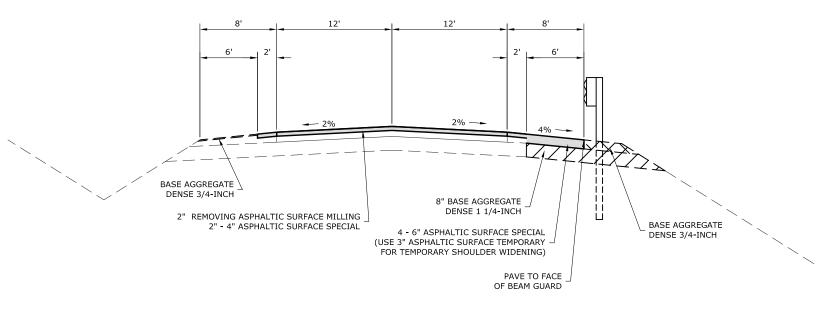
FILE NAME: G:\2012-proj\12445023\dwg\Plan Set\020101_gn.DWG PLOT DATE: Aug 01, 2014 - 12:02pm PLOT BY:interns2 PLOT NAME: GEN-NOTES ORG. DATE: Oct 18, 1999 Originator : J.C.A. PLOT SCALE :



TYPICAL EXISTING SECTION

USH 53

STA 423+89.68 - STA 425+14.05 STA 425+83.51 - STA 427+15.33



TYPICAL PROPOSED SECTION

USH 53

STA 423+89.68 - STA 424+95.15 STA 426+02.47 - STA 427+15.33 SCALE 5'

PROJECT NUMBER: 7905-03-72 HWY: USH 53 COUNTY: EAU CLAIRE USH 53 TYPICAL SECTION SHEET SHEET NO: E

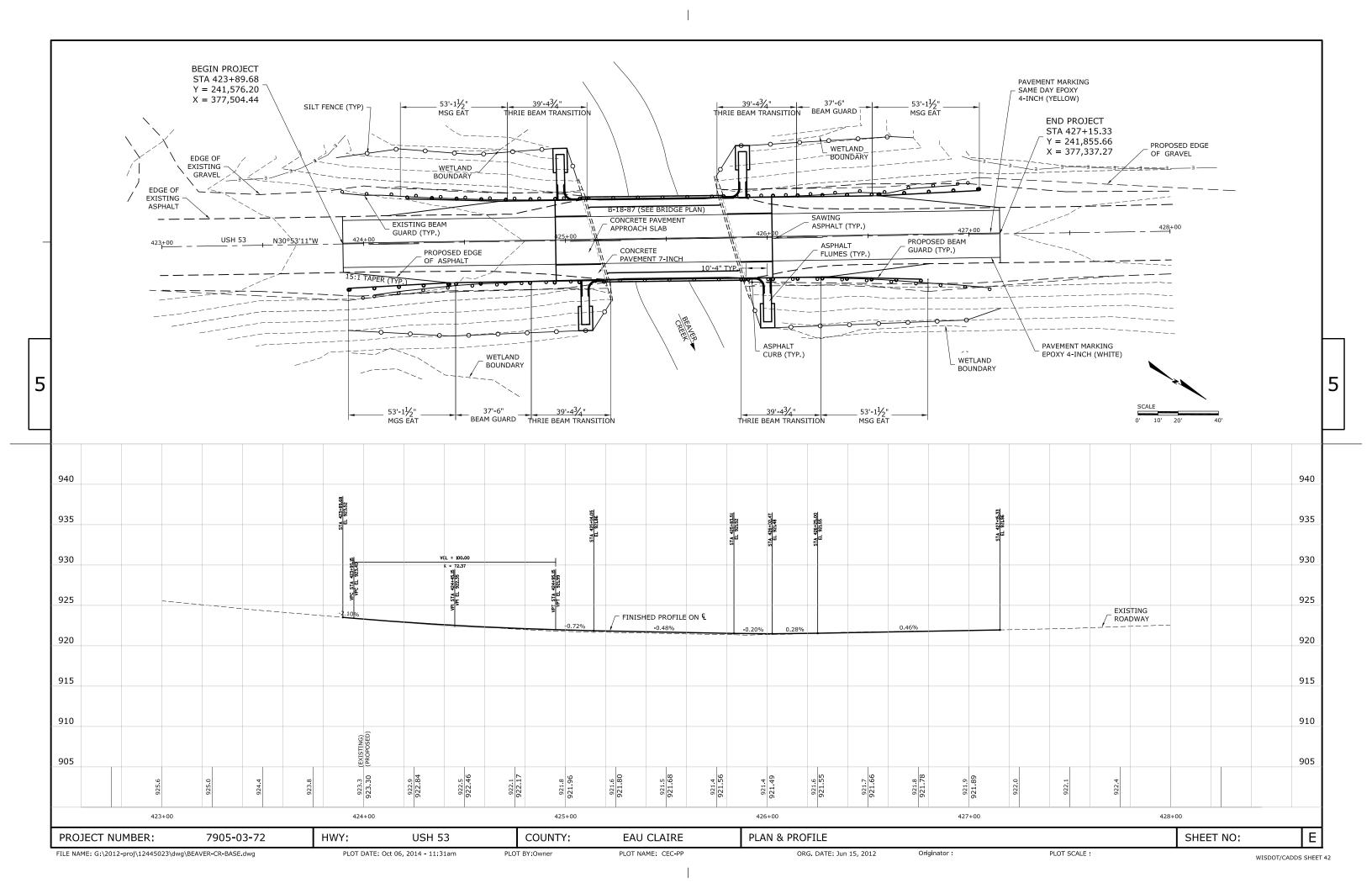
FILE NAME: G:\2012-proj\12445023\dwg\Plan Set\020301_ts.dwg PloT DATE: Oct 30, 2014 - 03:39pm PlOT BY:Owner PLOT NAME: Layout1 ORG. DATE: Oct 18, 1999 Originator: J.C.A. PLOT SCALE:
WISDOT/CADDS SHEET 42

| DATE 17 | NOV14 | E S | TIMATI | E O F Q U A N | TITIES |
|-----------------|------------------------|--|-------------|--------------------|---------------------|
| LI NE NUMBER | LTEM | ITEM DESCRIPTION | IINII T | TOTAL | 7905-03-72 |
| 0010 | | ABATEMENT OF ASBESTOS CONTAINING | UNI T LS | TOTAL 1. 000 | QUANTI TY 1. 000 |
| 0000 | 000 0400 0 | MATERIAL (STRUCTURE) 02. B-18-87 | | 4 000 | 4 000 |
| 0020 | 203. 0600. S | REMOVING OLD STRUCTURE OVER WATERWAY WITH MINIMAL DEBRIS (STATION) 02.425+50 | LS | 1. 000 | 1. 000 |
| 0030 | 204. 0110 | REMOVING ASPHALTIC SURFACE | SY | 160.000 | 160.000 |
| 0040 | 204. 0120 | REMOVING ASPHALTIC SURFACE MILLING | SY | 690.000 | 690. 000 |
| 0070 | 204. 0165 | REMOVI NG GUARDRAI L | LF | 630. 000 | 630. 000 |
| 0090 | 213. 0100 | FINISHING ROADWAY (PROJECT) 02. 7905-03-02 | EACH | 1. 000 | 1. 000 |
| 0100 | 305.0110 | BASE AGGREGATE DENSE 3/4-INCH | TON | 85.000 | 85.000 |
| 0110 | 305. 0120 | BASE AGGREGATE DENSE 1 1/4-I NCH | TON | 350. 000 | 350. 000 |
| 0120 | 415. 0070 | CONCRETE PAVEMENT APPROACH CLAR | SY | 70.000 | 70.000 |
| 0130 | 415. 0410 | CONCRETE PAVEMENT APPROACH SLAB | SY | 100. 000 | 100. 000 |
| 0140 | 455. 0605 | TACK COAT | GAL | 30.000 | 30.000 |
| 0150 | 465. 0125 | ASPHALTIC SURFACE TEMPORARY | TON | 110.000 | 110.000 |
| 0160 | 465. 0310 | ASPHALTIC CURB | LF | 90.000 | 90.000 |
| 0170 0180 | 465. 0315 502. 0100 | ASPHALTIC FLUMES CONCRETE MASONRY BRIDGES | SY CY | 40. 000 16. 000 | 40. 000 16. 000 |
| | | | | | |
| 0190 | 502. 3200 | PROTECTIVE SURFACE TREATMENT | SY | 350.000 | 350.000 |
| 0200 | 505. 0605 | BAR STEEL REINFORCEMENT HS COATED BRIDGES | LB | 4, 380. 000 | 4, 380. 000 |
| 0210 | 509. 0301 | PREPARATION DECKS TYPE 1 | SY | 45.000 | 45.000 |
| 0220 | 509. 0302 | PREPARATION DECKS TYPE 2 | SY | 15. 000 | 15. 000 |
| 0230 | 509. 0500 | CLEANING DECKS | SY | 280. 000 | 280. 000 |
| 0250 | 509. 1500 | CONCRETE SURFACE REPAIR | SF | 10. 000 | 10.000 |
| 0260 | 509. 2000 | FULL-DEPTH DECK REPAIR | SY | 70. 000 | 70. 000 |
| 0270 | 509. 2500 | CONCRETE MASONRY OVERLAY DECKS | CY | 40.000 | 40.000 |
| 0310 | 603. 8000 | CONCRETE BARRIER TEMPORARY PRECAST DELIVERED | LF | 425. 000 | 425. 000 |
| 0320 | 603. 8125 | CONCRETE BARRIER TEMPORARY PRECAST | LF | 850. 000 | 850. 000 |
| | | INSTALLED | | | |
| 0330 | 614. 0150 | ANCHOR ASSEMBLIES FOR STEEL PLATE BEAM | EACH | 4. 000 | 4. 000 |
| 0340 | 614. 2300 | GUARD MGS GUARDRAI L 3 | LF | 75. 000 | 75. 000 |
| 0350 | 614. 2500 | MGS THRIE BEAM TRANSITION | LF | 156. 000 | 156. 000 |
| 0360 | 614. 2610 | MGS GUARDRAIL TERMINAL EAT | EACH | 4.000 | 4. 000 |
| 0380 | 618. 0100 | MAINTENANCE AND REPAIR OF HAUL ROADS (PROJECT) 02. 7905-03-72 | EACH | 1. 000 | 1. 000 |
| | | | | | |
| 0390 | 619. 1000 | MOBI LI ZATI ON | EACH | 0.600 | 0.600 |
| 0400 | 628. 1504 | SILT FENCE | LF I E | 500.000 | 500.000 |
| 0410 0420 | 628. 1520 628. 1905 | SILT FENCE MAINTENANCE MOBILIZATIONS EROSION CONTROL | LF EACH | 500. 000 3. 000 | 500. 000 3. 000 |
| 0420 | 628. 1910 | MOBILIZATIONS EMERGENCY EROSION CONTROL | EACH | 1. 000 | 1. 000 |
| 0440 | 420 2004 | EDOCION MAT CLASS I TYPE D | CV | F70, 000 | F70, 000 |
| 0440 0460 | 628. 2004 638. 2102 | EROSION MAT CLASS I TYPE B MOVING SIGNS TYPE II | SY EACH | 570. 000 4. 000 | 570. 000 4. 000 |
| 0480 | 638. 4000 | MOVING SIGNS TIPE IT MOVING SMALL SIGN SUPPORTS | EACH | 4. 000 | 4. 000 |
| 0480 | 642. 5001 | FIELD OFFICE TYPE B | EACH | 0. 500 | 0. 500 |
| 0500 | 643. 0100 | TRAFFIC CONTROL (PROJECT) 02.7905-03-02 | EACH | 1.000 | 1. 000 |
| 0510 | 643. 0300 | TRAFFIC CONTROL DRUMS | DAY | 1, 400. 000 | 1, 400. 000 |
| 0510 | 643. 0420 | TRAFFIC CONTROL BROWNS TRAFFIC CONTROL BARRICADES TYPE III | DAY | 70. 000 | 70. 000 |
| 0530 | 643. 0705 | TRAFFIC CONTROL WARNING LIGHTS TYPE A | DAY | 140. 000 | 140. 000 |
| 0540 | 643. 0715 | TRAFFIC CONTROL WARNING LIGHTS TYPE C | DAY | 700.000 | 700.000 |
| 0550 | 643. 0900 | TRAFFIC CONTROL SIGNS | DAY | 1, 470. 000 | 1, 470. 000 |
| 0560 | 646. 0106 | PAVEMENT MARKING EPOXY 4-INCH | LF | 1, 205. 000 | 1, 205. 000 |
| 0570 | 646. 0406 | PAVEMENT MARKING SAME DAY EPOXY 4-INCH | LF | 725.000 | 725. 000 |
| | | | | | |

| | DATE 17 | NOV14 | E : | STIMAT | E O F Q U A N | TITIES |
|----------|---------|--|--|---|---------------|---|
| | LINE | | | | | 7905-03-72 |
| | NUMBER | ITEM | ITEM DESCRIPTION | UNI T | TOTAL | QUANTI TY |
| | 0580 | 646.0600 | REMOVING PAVEMENT MARKINGS | LF | 1, 200. 000 | 1, 200. 000 |
| | 0590 | 649. 0400 | TEMPORARY PAVEMENT MARKING REMOVABLE | LF | 2, 890. 000 | 2, 890. 000 |
| | | | TAPE 4-INCH | | | |
| | 0600 | 649. 1400 | TEMPORARY PAVEMENT MARKING STOP LINE | LF | 24.000 | 24.000 |
| | | | REMOVABLE TAPE 24-INCH | | | |
| | 0/20 | /FO 0010 | CONCEDUCTION CTAVING CURRICHMENTAL | | 1 000 | 1 000 |
| | 0620 | 650. 9910 | | LS | 1.000 | 1. 000 |
| | 0/40 | //1 0100 | | 1.0 | 1 000 | 1 000 |
| ₹ | 0640 | 661.0100 | | LS | 1.000 | 1. 000 |
| ' | 0/50 | | | | /0.000 | 40.000 |
| | | | | | | 68. 000 |
| | 0670 | SPV. 0060 | | EACH | 1. 000 | 1. 000 |
| | | | | | | |
| | | | | | | |
| | 0680 | SPV. 0195 | SPECIAL 01. ASPHALTIC SURFACE SPECIAL | TON | 155. 000 | 155. 000 |
| | 3 | LI NE NUMBER 0580 0590 0600 0620 0640 0650 0670 | NUMBER I TEM 0580 646.0600 0590 649.0400 0600 649.1400 0620 650.9910 0640 661.0100 0650 690.0150 0670 SPV.0060 | LINE NUMBER I TEM 0580 646.0600 REMOVING PAVEMENT MARKINGS 0590 649.0400 TEMPORARY PAVEMENT MARKING REMOVABLE TAPE 4-INCH 0600 649.1400 TEMPORARY PAVEMENT MARKING STOP LINE REMOVABLE TAPE 24-INCH 0620 650.9910 CONSTRUCTION STAKING SUPPLEMENTAL CONTROL (PROJECT) 02.7905-03-02 TEMPORARY TRAFFIC SIGNALS FOR BRIDGES (STRUCTURE) 02. B-18-87 0650 690.0150 SAWING ASPHALT 0670 SPV.0060 SPECIAL 02. GRADING, SHAPING, AND FINISHING STRUCTURE APPROACHES 7905-03-72 | LI NE | LI NE NUMBER I TEM I TEM DESCRIPTION UNIT TOTAL 0580 646.0600 REMOVI NG PAVEMENT MARKI NGS LF 1, 200.000 0590 649.0400 TEMPORARY PAVEMENT MARKI NG REMOVABLE LF 2, 890.000 TAPE 4-I NCH 0600 649.1400 TEMPORARY PAVEMENT MARKI NG STOP LI NE REMOVABLE TAPE 24-I NCH 0620 650.9910 CONSTRUCTI ON STAKI NG SUPPLEMENTAL CONTROL (PROJECT) 02.7905-03-02 0640 661.0100 TEMPORARY TRAFFIC SI GNALS FOR BRI DGES (STRUCTURE) 02. B-18-87 0650 690.0150 SAWI NG ASPHALT 0670 SPV.0060 SPECI AL 02. GRADI NG, SHAPI NG, AND FI NI SHI NG STRUCTURE APPROACHES 7905-03-72 |

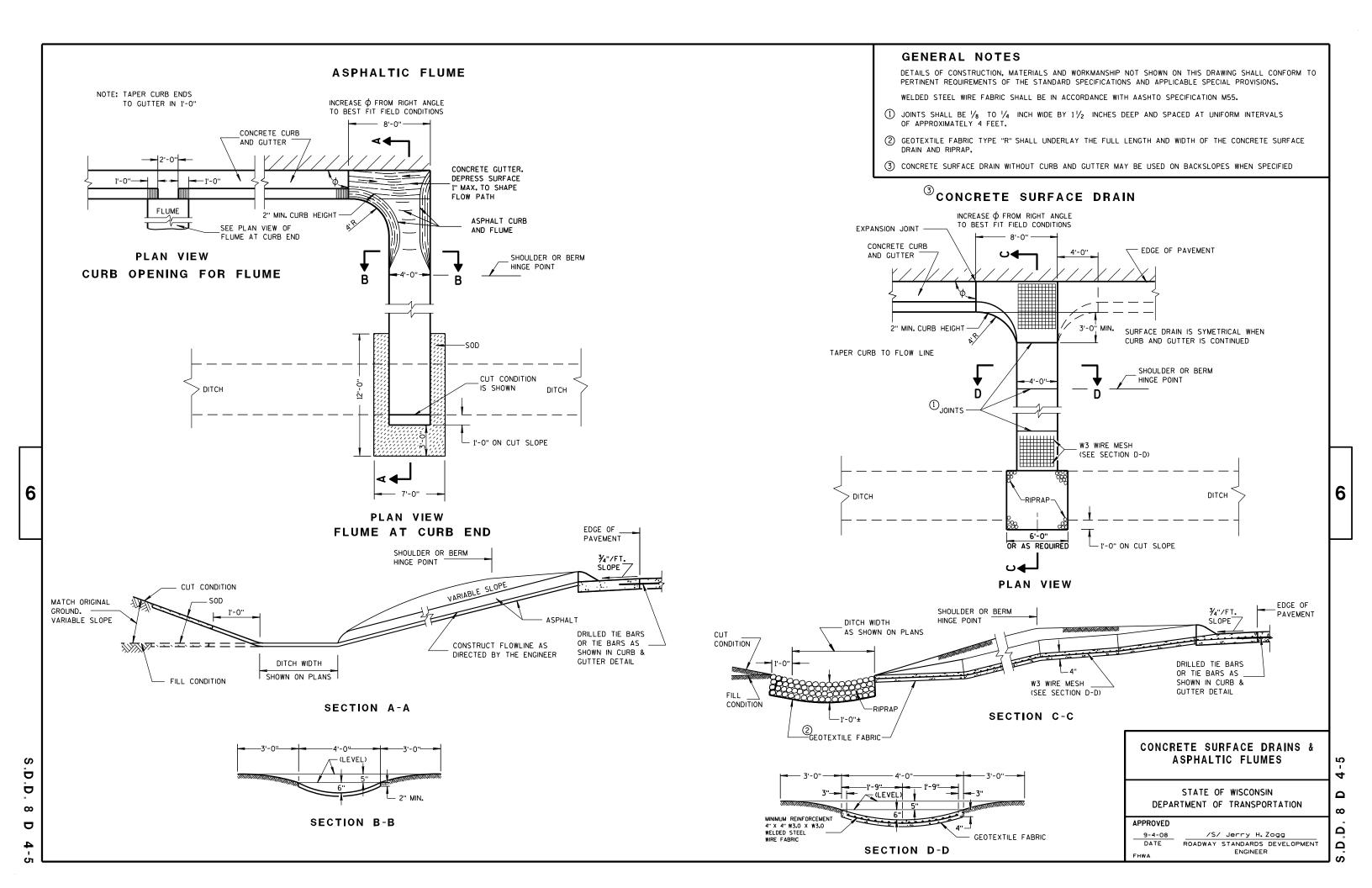
| 3 | 0010 423+90 0010 423+90 0010 424+12 0010 424+95 0010 425+84 0010 426+02 0010 426+02 0010 425+90 0010 425+90 0010 422+50 0010 422+50 0010 422+50 0010 422+50 | N TO STATION SIDE (FT) O - 424+95 | B 2 - 4 1 IES 4 - 6 2 IES 4 - 6 2 D D B 2 - 3 1 IES 4 - 5 2 IES 4 - 5 2 IES 4 - 5 3 1 B 3 1 B 3 1 | REMOVI NG A ASPHALTI C SURFACE 204. 0110 2 S SY | | ATE AGGREGA E DENSE CH 1 1/4-11 110 305.012 | CONCRETE PAVEMENT NCH 7-I NCH 20 415.0070 | APPROACH SLAB | TACK COAT 455. 0605 GAL 10 3 2 - 10 2 3 10 2 3 - 3 3 3 30 | TEMPORARY | ASPHALT CURB | FLUMES | ASPHALTI C SURFACE SPECI AL SPV. 0195. 0' TON 55 15 10 50 10 15 155 | SAWI NG ASPHALT | MILL AND OVERL WI DEN SHOULDER REMOVE AND RER REMOVE AND RER MI LL AND OVERL WI DEN SHOULDER WI DEN SHOULDER STAGE 1 TEMPOR STAGE 2 TEMPOR STAGE 2 TEMPOR GRADING, SHAPI | R TO FACE OF R TO FACE OF PLACE WITH C PLACE WITH C LAY R TO FACE OF R TO FACE OF RARY SHOULDE RARY SHOULDE RARY SHOULDE RARY SHOULDE | BEAM GUARD ONCRETE ONCRETE BEAM GUARD BEAM GUARD R WI DENI NG R WI DENI NG R WI DENI NG R WI DENI NG | | | 3 |
|--|---|--|---|--|---|--|---|--|---|------------------------------------|---|--|--|--|--|---|---|--|-------------------|----------|
| 0010 423+4 0010 423+4 0010 424+1 0010 424+1 0010 424+1 0010 425+1 0010 425+1 0010 426+1 0010 426+1 | GUARDRAI L | MGS MGS THRIE GUARG GUARDRAIL BEAM TERM 3 TRANSITION EA 614. 2300 614. 2500 614. LF LF E | ORAL L I NAL L I NAL L Z610 A REMARKS | - | | TO STATION - 427+65 TOTAL OC | BARRI ER TEMPORAR' PRECAST DELI VEREI 603. 8000 | CONCRETE BARRI ER Y TEMPORARY PRECAST O INSTALLED O 603. 8125 LF 850 850 | | 0010 0010 0010 0010 | LOCATI ON B-18-87 SE B-18-87 SW B-18-87 NE B-18-87 NW TOTAL 0010 | FENCE 628. 1504 LF 135 V 125 E 135 V 105 | SILT FENCE MAI NTENANCI 628. 1520 LF 135 125 135 105 500 | E TYPE B | 00 00 00 00 | 10 425+ 10 425+ | ON SI DE 08 LT 19 RT 78 LT | 1 1 1 1 | L SIGN PORTS | <u>s</u> |
| | CATEGORY STATION TO STATION 0010 418+60 - 422+50 0010 422+50 - 423+90 0010 422+50 - 428+55 0010 422+50 - 428+55 0010 423+40 - 427+65 0010 428+55 - 428+55 0010 428+55 - 432+05 0010 422+50 - 423+90 0010 422+50 - 427+65 0010 427+15 - 428+55 0010 423+90 - 427+15 0010 423+90 - 427+15 | EPOXY EPOXY 4-INCH INC 646.0106 646.0 N SIDE LF LF | ENT NG MARKI NG DAY REMOVI NG REMOVABI 4- PAVEMENT TAPE H MARKI NGS 4-I NCF 406 646. 0600 649. 040 LF LF - 305 0 160 - 600 600 - 425 0 160 530 140 530 140 605 - 425 140 425 140 - | G STOP LINE LE REMOVABLE TAPE 1 24-I NCH 20 649. 1400 LF - 12 | REMARKS YELLOW CL SKIPS (STOP LINE YELLOW CENTERLINI RT BARRIER EDGELINE YELLOW CENTERLINI STOP LINE YELLOW CL SKIPS (STAGE 2 EDGELINE STAGE 2 WHITE EDG STAGE 2 BARRIER I STAGE 2 EDGELINE STAGE 2 EDGELINE | DNLY E E I NE E DNLY REMOVAL GELI NE EDGELI NE REMOVAL | | | | TEGORY DA | CATEGO 0010 | TOTAL | ROL BARRI TYPE 643. (S # 00 1 00 GRAD SHAP AN FINIS STRUC APPRO SPV. 00 TION E 8-87 | CADES WA E 111 O420 DAYS 70 70 T1 NG, ND SHI NG CTURE EXCANACHES COM D60. 02 A COM D60 | 2 140 140 'ATION F | ARNI NG LI GHT | S TRAFFIC CON SIGNS 643.090i # D. 21 1, 1, 1, 1, 1, 1, 1, 1, 1, 1, 1, 1, 1, | ITROL SI GNAI BRI I 0 661. AYS L 470 470 | 0GES 0100 S | |

FILE NAME: G:\2012-proj\12445023\dwg\Plan Set\030101_mq.dwg PLOT DATE: Nov 03, 2014 - 02:35pm PLOT BY:Owner PLOT NAME: MISQ(1 ORG. DATE: Oct 19, 1999 Originator: J.A.F. PLOT SCALE: NONE WISDOT/CADDS SHEET 42



Standard Detail Drawing List

| 08D04-05 | CONCRETE SURFACE DRAINS & ASPHALTIC FLUMES |
|-----------|---|
| 08E09-06 | SILT FENCE |
| 09G02-03A | BRIDGE TEMPORARY TRAFFIC SIGNAL INSTALLATION |
| 09G02-03B | BRIDGE TEMPORARY TRAFFIC SIGNAL INSTALLATION |
| 09G02-03C | BRIDGE TEMPORARY TRAFFIC SIGNAL INSTALLATION |
| 13A03-05 | CONCRETE PAVEMENT SHOULDERS |
| 13B02-07A | CONCRETE PAVEMENT APPROACH SLAB |
| 14B07-14A | CONCRETE BARRIER TEMPORARY PRECAST, 12'-6" |
| 14B07-14B | CONCRETE BARRIER TEMPORARY PRECAST, 12'-6" |
| 14B07-14C | CONCRETE BARRIER TEMPORARY PRECAST, 12'-6" |
| 14B07-14D | CONCRETE BARRIER TEMPORARY PRECAST, 12'-6" |
| 14B07-14E | CONCRETE BARRIER TEMPORARY PRECAST, 12'-6" |
| 14B07-14F | CONCRETE BARRIER TEMPORARY PRECAST, 12'-6" |
| 14B07-14G | SILT FENCE BRIDGE TEMPORARY TRAFFIC SIGNAL INSTALLATION BRIDGE TEMPORARY TRAFFIC SIGNAL INSTALLATION BRIDGE TEMPORARY TRAFFIC SIGNAL INSTALLATION CONCRETE PAVEMENT SHOULDERS CONCRETE PAVEMENT APPROACH SLAB CONCRETE BARRIER TEMPORARY PRECAST, 12'-6" MIDWEST GUARDRAIL SYSTEM (MGS) GUARDRAIL MIDWEST GUARDRAIL SYSTEM (MGS) GUARDRAIL MIDWEST GUARDRAIL SYSTEM (MGS) GUARDRAIL MIDWEST GUARDRAIL SYSTEM ENERGY ABSORBING TERMINAL (MGS) MIDWEST GUARDRAIL SYSTEM ENERGY ABSORBING TERMINAL (MGS) MIDWEST GUARDRAIL SYSTEM ENERGY ABSORBING TERMINAL (MGS) MIDWEST GUARDRAIL SYSTEM THRIE BEAM TRANSITION (MGS) |
| 14B07-14H | CONCRETE BARRIER TEMPORARY PRECAST, 12'-6" |
| 14B42-03A | MIDWEST GUARDRAIL SYSTEM (MGS) GUARDRAIL |
| 14B42-03B | MIDWEST GUARDRAIL SYSTEM (MGS) GUARDRAIL |
| 14B42-03C | MIDWEST GUARDRAIL SYSTEM (MGS) GUARDRAIL |
| 14B44-02A | MIDWEST GUARDRAIL SYSTEM ENERGY ABSORBING TERMINAL (MGS) |
| 14B44-02B | MIDWEST GUARDRAIL SYSTEM ENERGY ABSORBING TERMINAL (MGS) |
| 14B44-02C | MI DWEST GUARDRAIL SYSTEM ENERGY ABSORBING TERMINAL (MGS) |
| 14B45-03A | MIDWEST GUARDRAIL SYSTEM THRIE BEAM TRANSITION (MGS) |
| 14B45-03B | MIDWEST GUARDRAIL SYSTEM THRIE BEAM TRANSITION (MGS) |
| 14B45-03C | MIDWEST GUARDRAIL SYSTEM THRIE BEAM TRANSITION (MGS) |
| 14B45-03D | MIDWEST GUARDRAIL SYSTEM THRIE BEAM TRANSITION (MGS) |
| 14B45-03E | MIDWEST GUARDRAIL SYSTEM THRIE BEAM TRANSITION (MGS) |
| 14B45-03F | MIDWEST GUARDRAIL SYSTEM THRIE BEAM TRANSITION (MGS) |
| 14B45-03G | MIDWEST GUARDRAIL SYSTEM THRIE BEAM TRANSITION (MGS) |
| 14B45-03H | MIDWEST GUARDRAIL SYSTEM THRIE BEAM TRANSITION (MGS) |
| 14B45-03I | MIDWEST GUARDRAIL SYSTEM THRIE BEAM TRANSITION (MGS) |
| 14B45-03J | MIDWEST GUARDRAIL SYSTEM THRIE BEAM TRANSITION (MGS) |
| 15C08-16A | PAVEMENT MARKING (MAINLINE) |
| 15D33-03 | MIDWEST GUARDRAIL SYSTEM THRIE BEAM TRANSITION (MGS) PAVEMENT MARKING (MAINLINE) TRAFFIC CONTROL, ONE LANE ROAD WITH TEMPORARY SIGNALS |
| | |



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.

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



TRENCH DETAIL



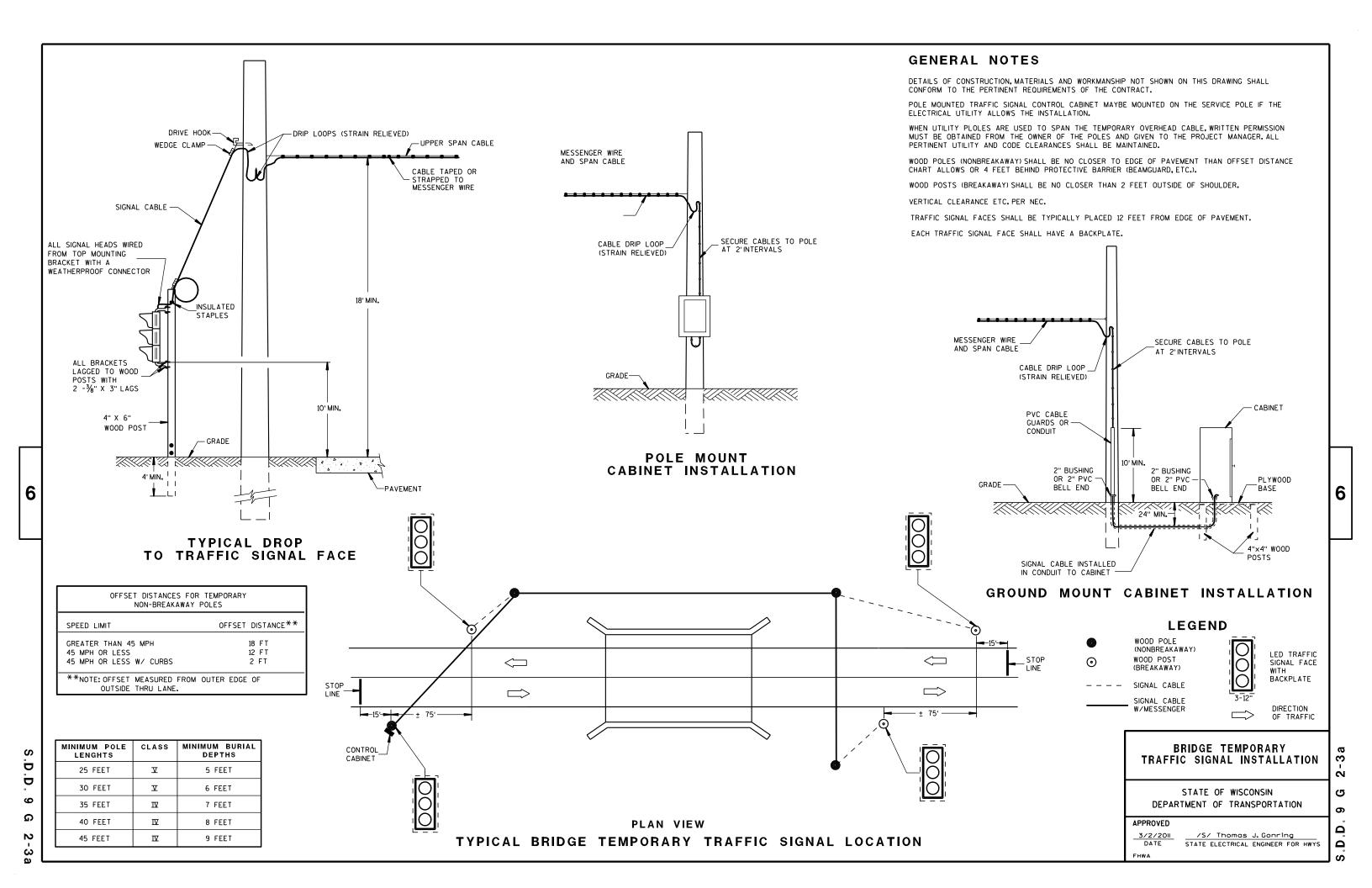
SILT FENCE TIE BACK

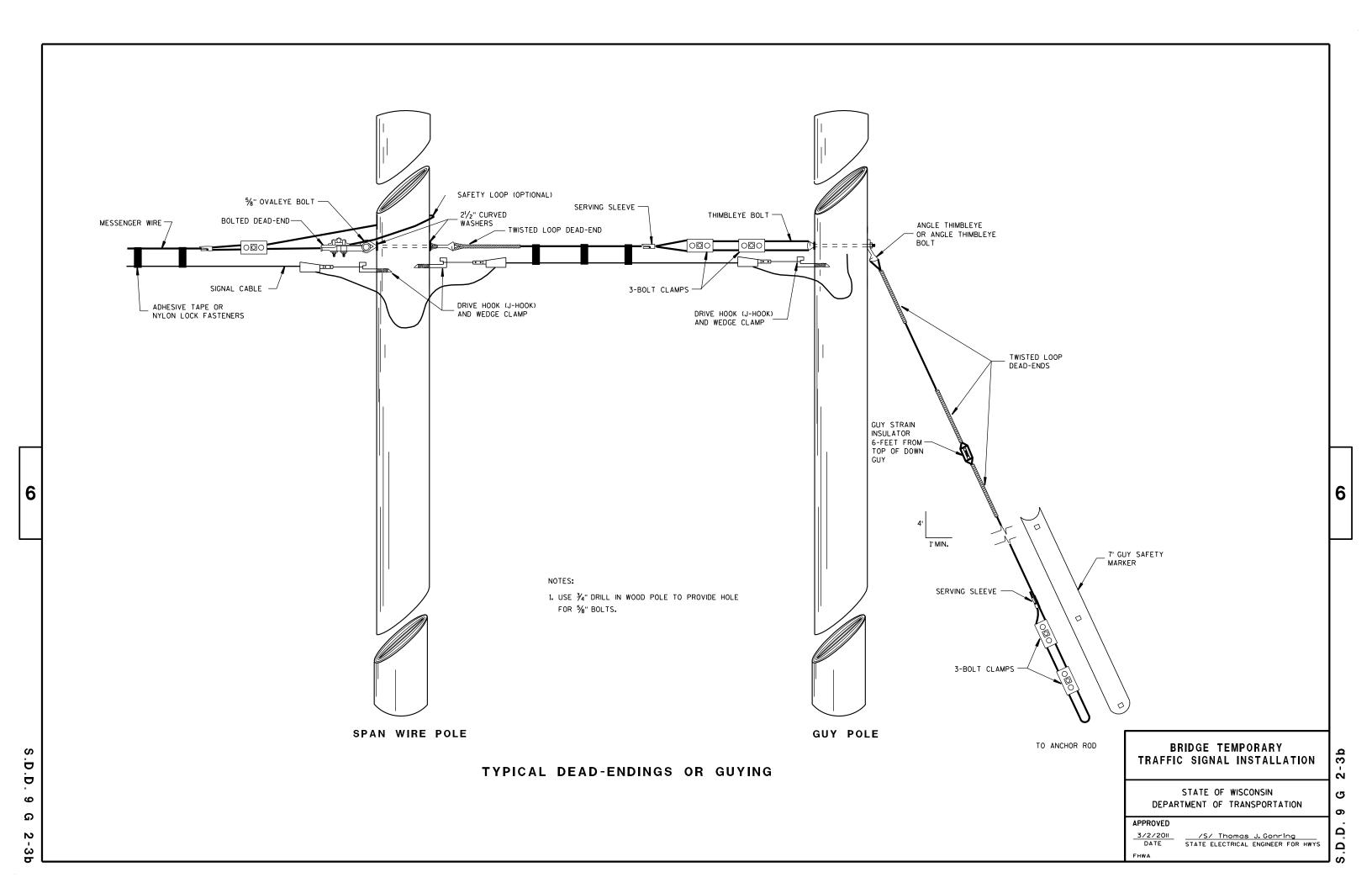
(WHEN REQUIRED BY THE ENGINEER)

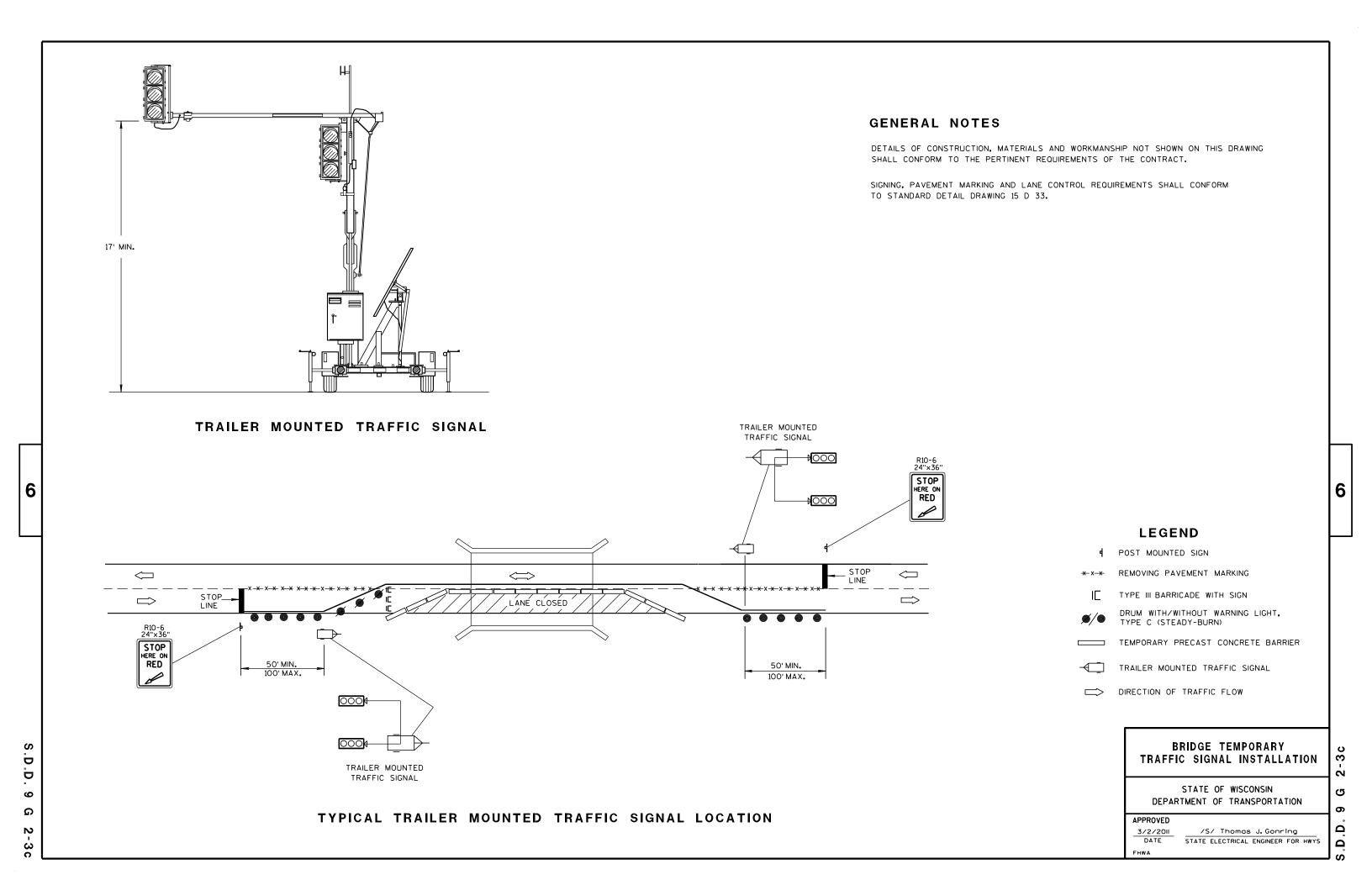


SILT FENCE

တ ∞







DOWEL BARS 1

LONGITUDINAL

1/2 TIE BAR -SPACING

JOINT

NO.4 TIE BAR-

JOINT SPACING (SEE TABLE)

1'-0"

1'-0"

SHOULDER

WIDTH

DOWEL BARS 1

TIE BAR

SPACING

(SEE

TABLE)

PLAN VIEW

CONCRETE PAVEMENT SHOULDER

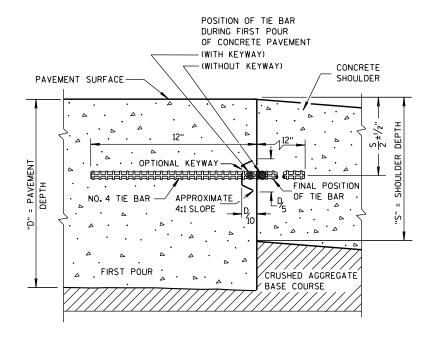
GENERAL NOTES

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.

TRANSVERSE JOINT DETAILS ARE SHOWN ELSEWHERE IN THE PLAN.

FINISH THE SHOULDER PAVEMENT CONFORMING TO SUBSECTION 415.3.8 OF THE STANDARD SPECIFICATIONS.

TIE BARS SHALL CONFORM TO SUBSECTION 505.2.4 OF THE STANDARD SPECIFICATIONS.



SECTION A-A
LONGITUDINAL CONSTRUCTION JOINT

PAVEMENT DEPTH, DOWEL BAR SIZE AND JOINT SPACING TABLE

| PAVEMENT DEPTH (D) | DOWEL BAR DIAMETER | CONTRACTION JOINT SPACING |
|--------------------------|-----------------------|---------------------------------|
| 5 ½", 6", 6 ½" | NONE | 12' |
| 7", 7 ½" | 1" | 14' |
| 8", 8 ½" | 1 1/4" | 15' |
| 9", 9 ½" | 1 1/4" | 15' |
| 10" & ABOVE | 1 1/2" | 15' |

FOR DOWELED CONCRETE SHOULDERS WITH TRAPEZOIDAL CROSS SECTIONS, CHOSE THE APPROPRIATE DOWEL BAR DIAMETER BASED ON THE SMALLER PAVEMENT DEPTH (LIKELY THE OUTSIDE EDGE OF THE SHOULDER). IF USING BASKETS, USE BASKETS FOR THE AVERAGE THICKNESS OF THE CROSS SECTION.

| CONCRETE PAVEMENT SHOULDERS | 3-5 |
|------------------------------|-----|
| STATE OF WISCONSIN | < |
| DEPARTMENT OF TRANSPORTATION | 13 |

6

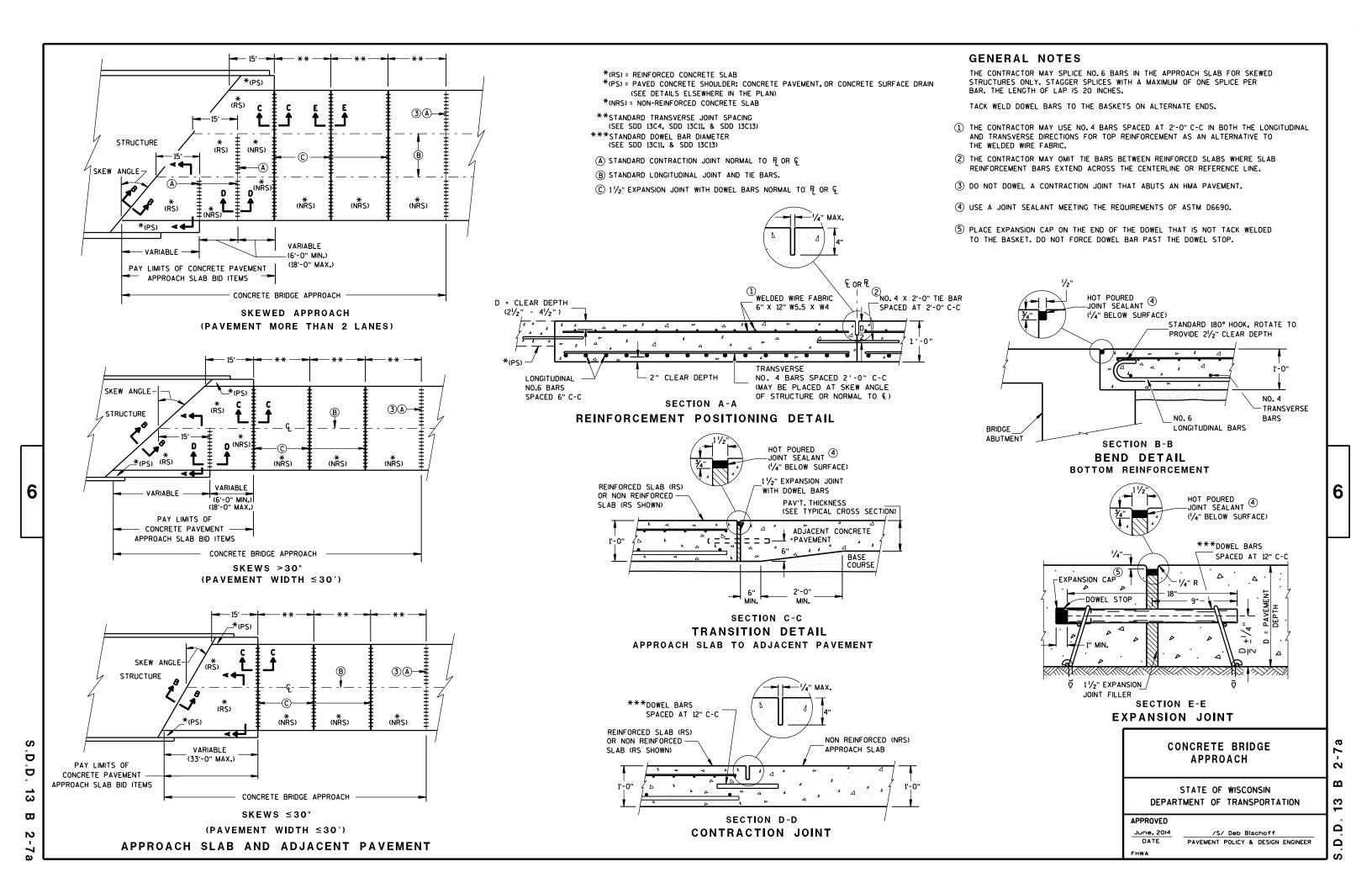
Ω

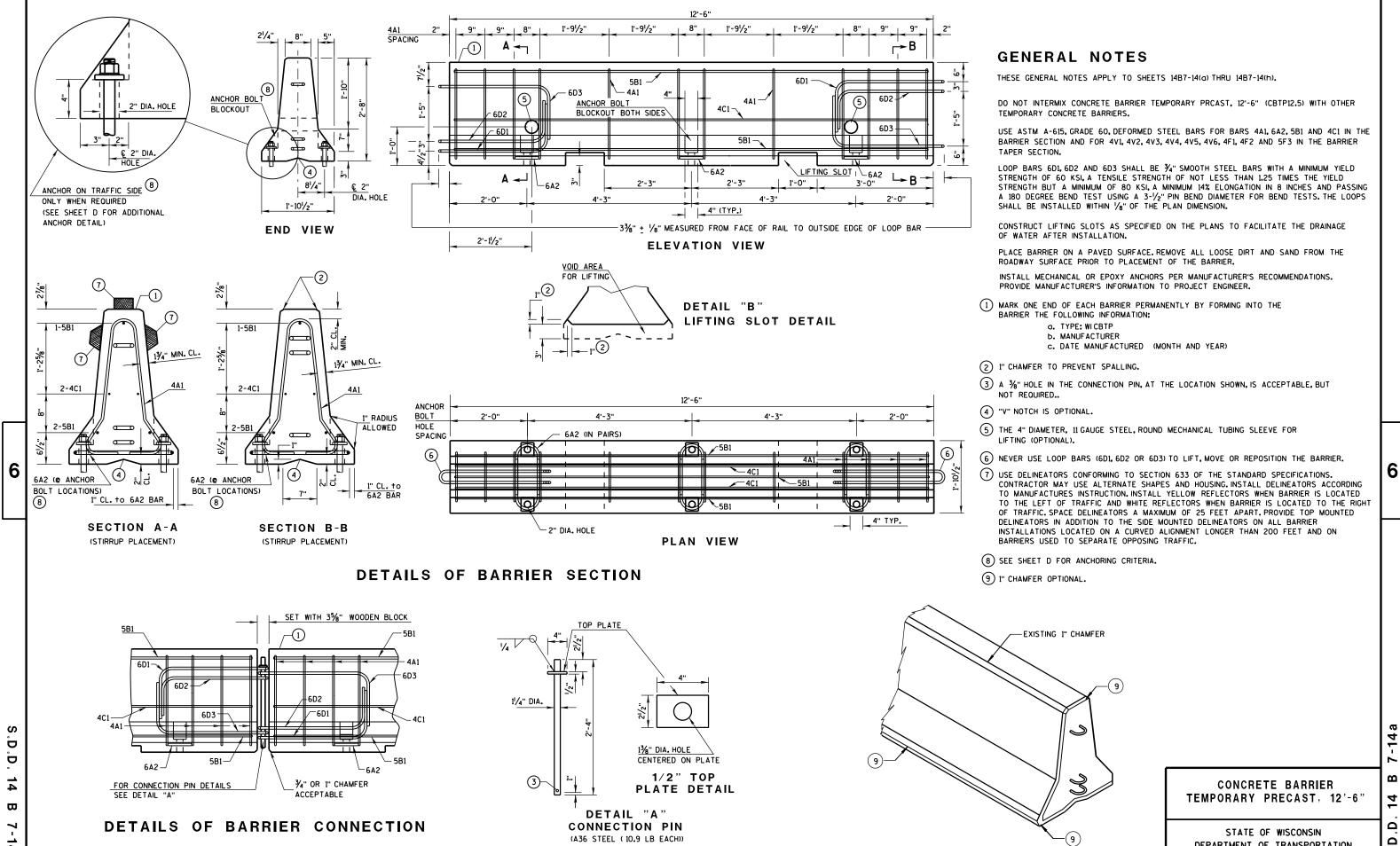
Δ

APPROVED

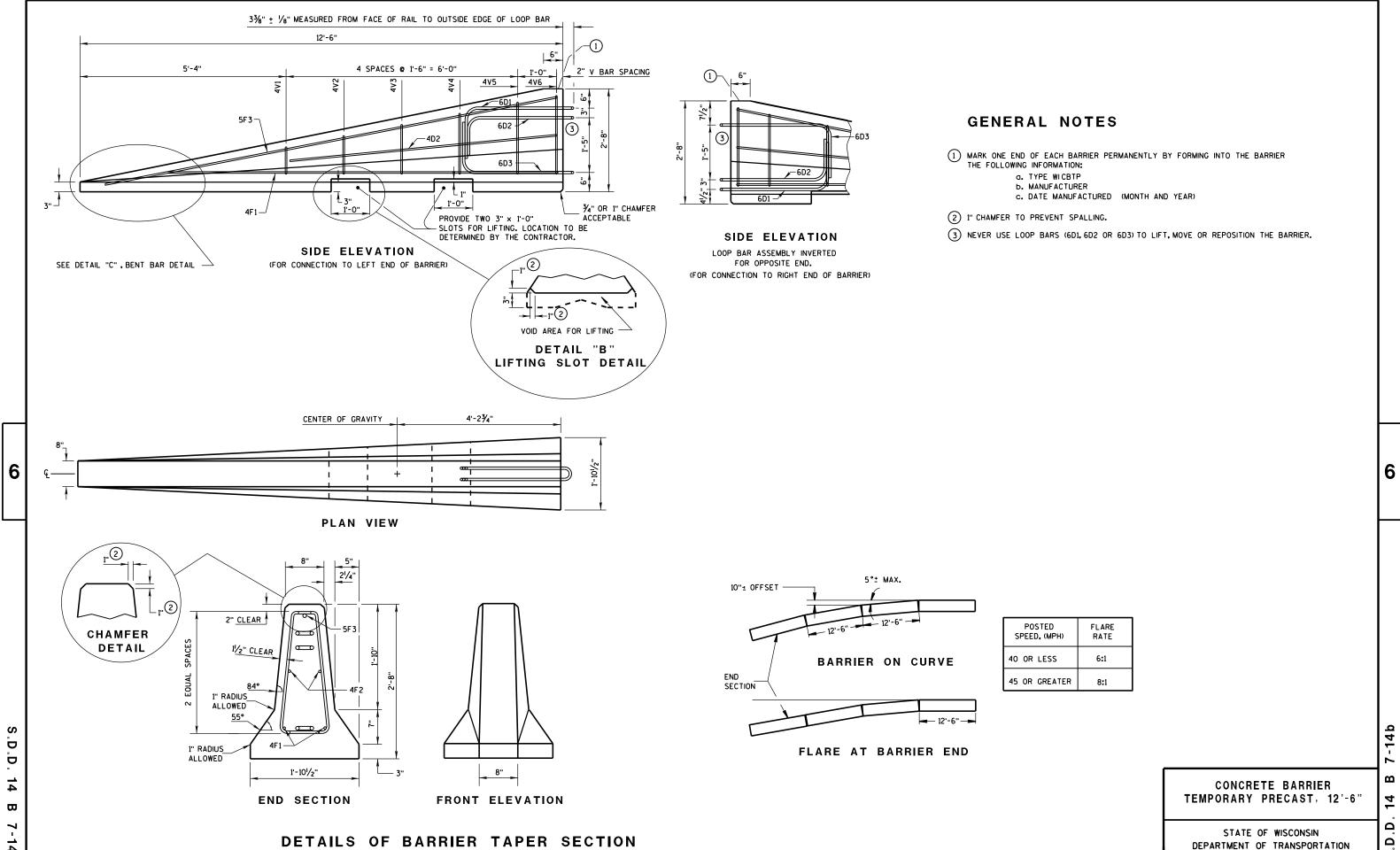
8/15/2011
DATE

PAVEMENT POLICY & DESIGN ENGINEER





DEPARTMENT OF TRANSPORTATION



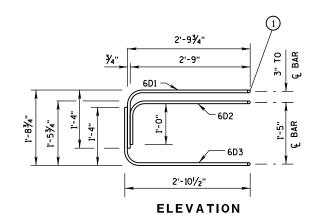
Ω

1) NEVER USE LOOP BARS (6D1, 6D2 OR 6D3) TO LIFT, MOVE OR REPOSITION THE BARRIER.

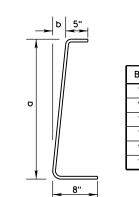
BARRIER TAPER SECTION BILL OF MATERIALS

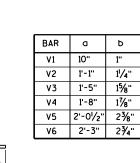
(PER 12'-6" BARRIER TAPER SECTION)

| BAR | BAR SIZE | NO. OF BARS | LENGTH FT. | |
|---------------|-------------|-------------------|---------------|--|
| 4V1 | 4 | 2 | 1'-11" | |
| 4V2 | 4 | 2 | 2'-2" | |
| 4٧3 | 4 | 2 | 2'-6" | |
| 4V4 | 4 | 2 | 2'-9" | |
| 4V5 | 4 | 2 | 3'-2" | |
| 4V6 | 4 | 2 | 3'-4" | |
| 4F1 | 4 | 2 | 12'-0" | |
| 4F2 | 4 | 2 | 7'-6" | |
| 5F3 | 5 | 1 | 11'-9" | |
| LOOP ASSEMBLY | | | | |
| 6D1 | 6 | 1 | 8'-5" | |
| 6D2 | 6 | 1 | 7'-7" | |
| 6D3 | 6 | 1 | 8'-6" | |
| | | • | • | |



LOOP BAR ASSEMBLY





DETAIL "C" BENT BAR DETAIL

2" MIN. CLEAR

2" MIN. CLEAR

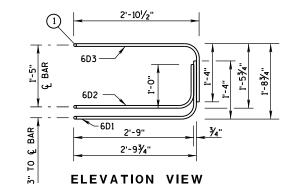
4V BARS
2 AT EACH SIZE REQUIRED
FOR STIRRUP ASSEMBLY

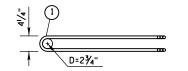
TAPER BARRIER SECTION

BARRIER SECTION BILL OF MATERIALS

(PER 12'-6" BARRIER SECTION)

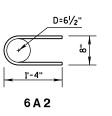
| BAR | BAR SIZE | NO. OF BARS | LENGTH FT. |
|-----|-------------|-------------------|---------------|
| 4A1 | 4 | 12 | 6'-0" |
| 6A2 | 6 | 6 | 2'-11" |
| 5B1 | 5 | 3 | 12'-2" |
| 4C1 | 4 | 2 | 12'-2" |
| L | OOP AS | SSEMBL | Υ |
| 6D1 | 6 | 2 | 8'-5" |
| 6D2 | 6 | 2 | 7'-7" |
| 6D3 | 6 | 2 | 8'-6" |

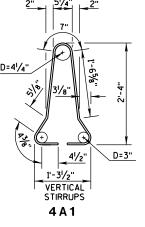




PLAN VIEW Loop bar assembly

(MARKED END SHOWN, INVERT FOR OTHER END)



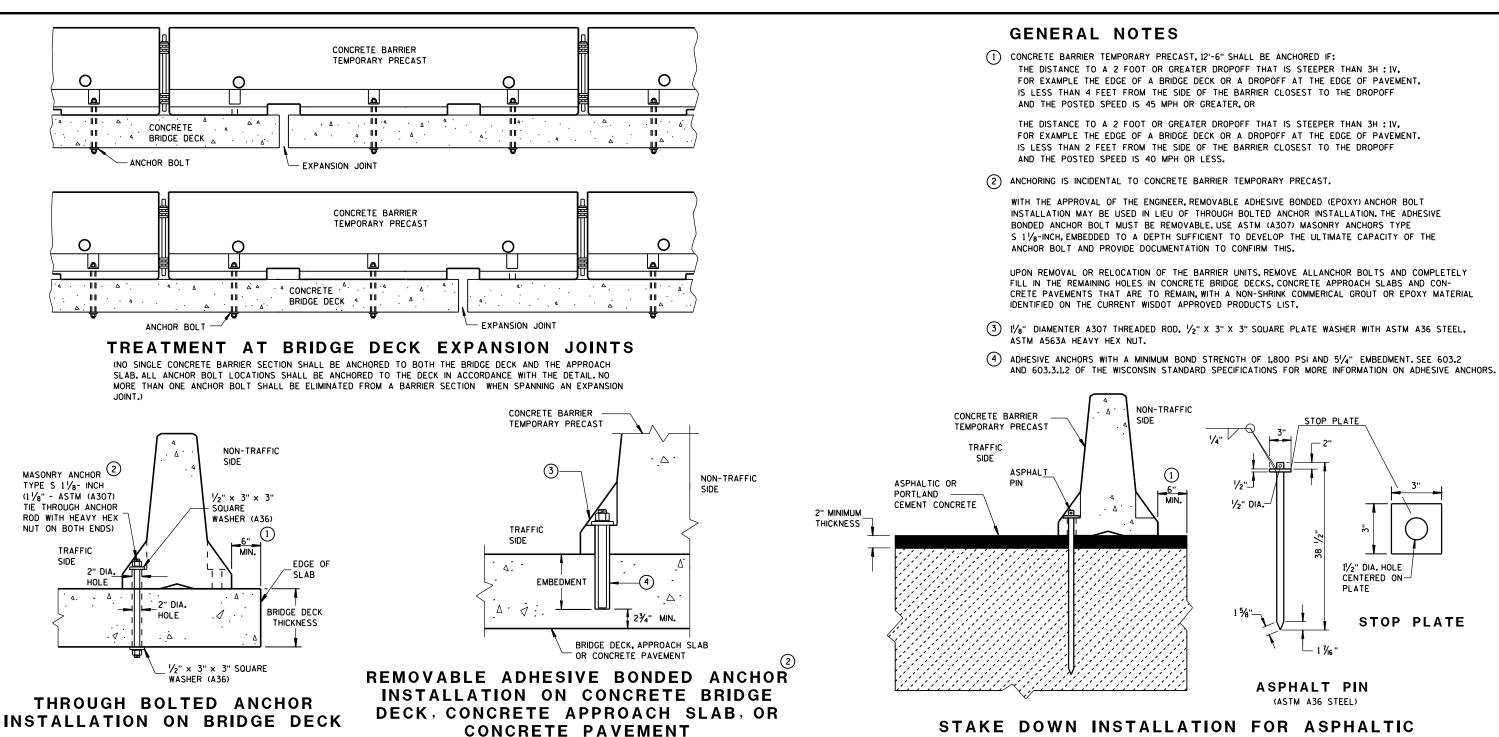


BARRIER SECTION

CONCRETE BARRIER
TEMPORARY PRECAST, 12'-6"

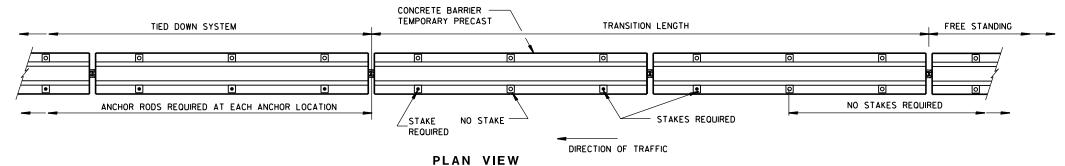
STATE OF WISCONSIN
DEPARTMENT OF TRANSPORTATION

.D.D. 14 B 7-14c



STAKE DOWN INSTALLATION FOR ASPHALTIC OR PORTLAND CEMENT CONCRETE SURFACE

(STAKING IS INCIDENTAL TO CONCRETE BARRIER TEMPORARY PRECAST)



(DO NOT USE ON CONCRETE WITH AN ASPHALTIC OVERLAY)

FREE STANDING TRANSITION TO TIED-DOWN SYSTEM (PLACE TRANSITION IN A TANGENT SECTION OF BARRIER PARALLEL TO THE ROADWAY, IF TRANSITION OCCURS ON STRUCTURAL SLAB, ANCHOR AS SHOWN,)

6

D

 \Box

(DO NOTUSE ON CONCRETE BRIDGE DECK WITH ASPHALT OVERLAY)

STATE OF WISCONSIN

CONCRETE BARRIER

TEMPORARY PRECAST, 12'-6"

11/2" DIA. HOLE

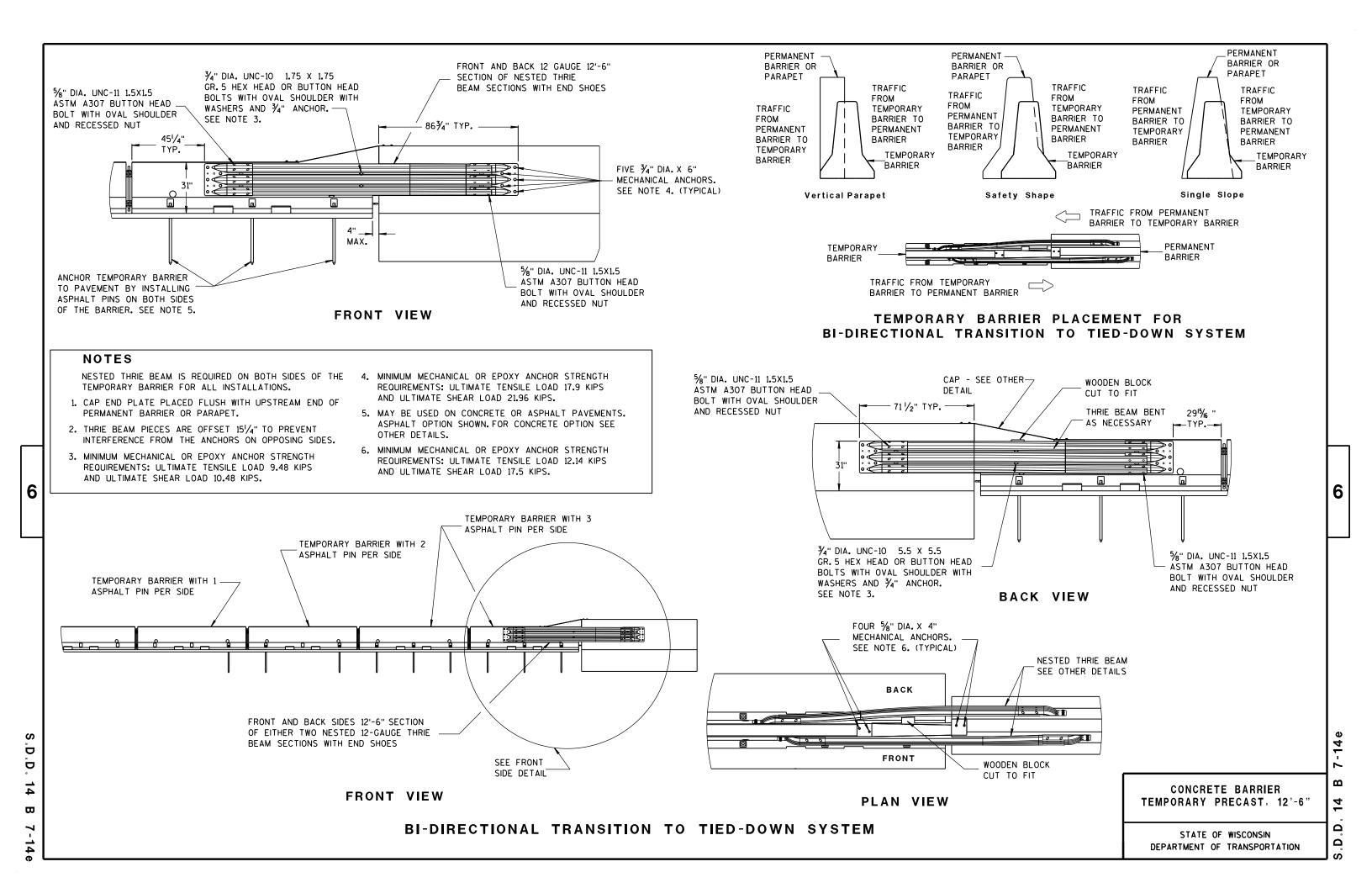
CENTERED ON-

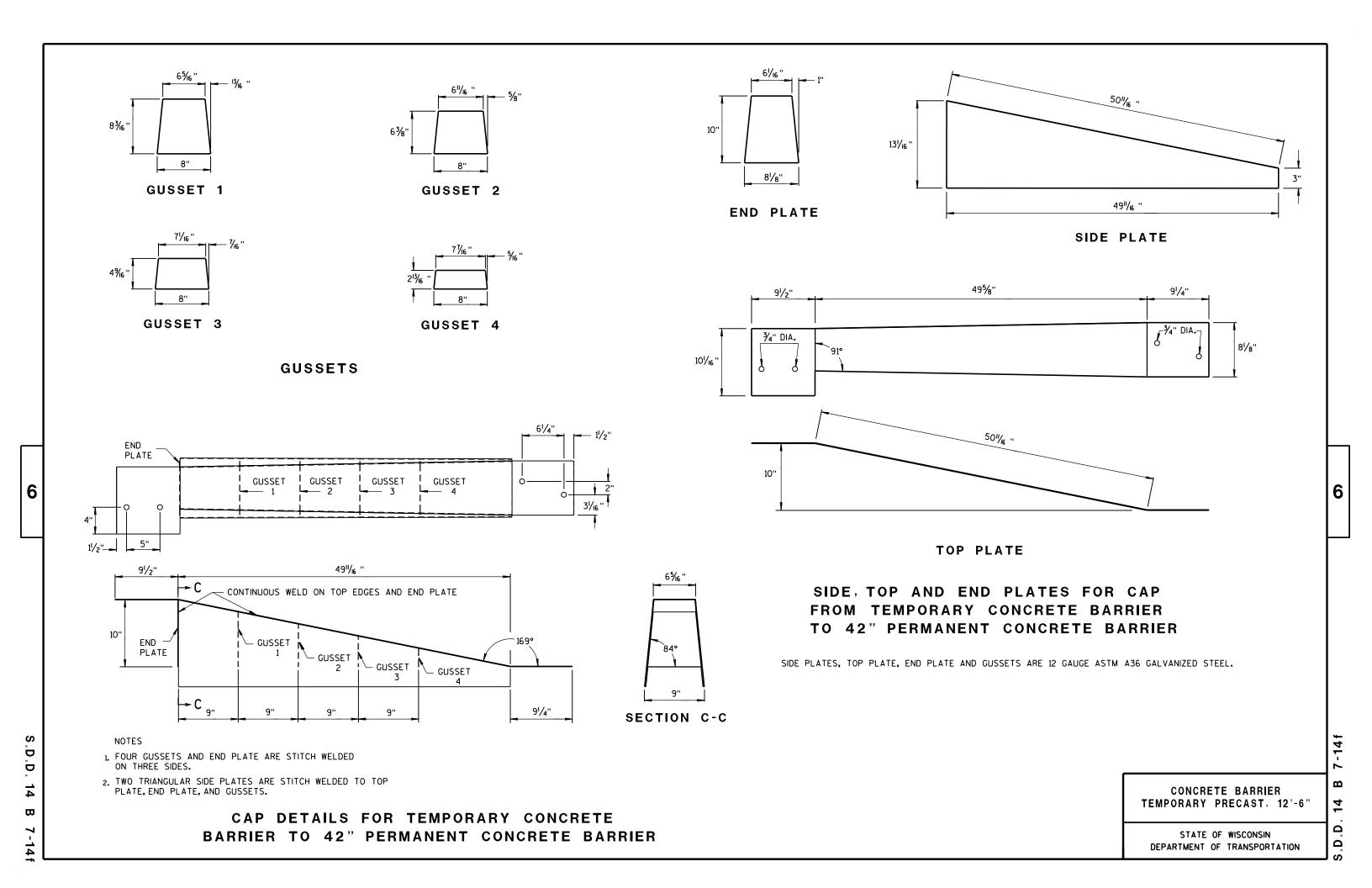
STOP PLATE

PLATE

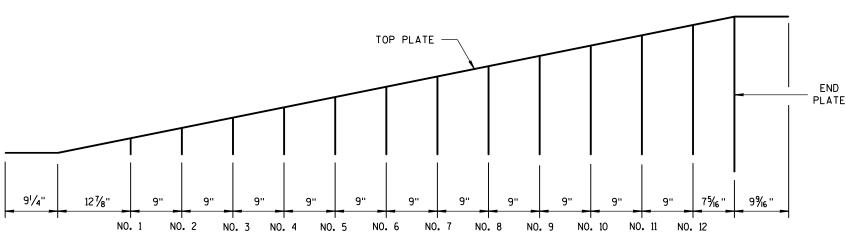
DEPARTMENT OF TRANSPORTATION

4 Δ Δ



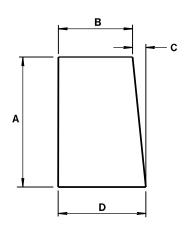


D Ď



GUSSET LOCATION

CAP DETAILS FOR TEMPORARY CONCRETE BARRIER TO 56" PERMANENT CONCRETE BARRIER



GUSSETS 1 - 12

ALL GUSSETS 1/8" STEEL PLATE

| GUSSET DIMENSIONS | | | | |
|-------------------|-------------------------------------|-----------------------------------|------------|-------------------|
| GUSSET No. | A | В | С | D |
| 1 | 21/8" | 73/4" | 1/4" | 8 |
| 2 | 4"/16 " | 7% " | 1/2" | 8 |
| 3 | 61/2" | 73/8" | 11/16 " | 8½6" |
| 4 | 85%" | 73/16" | ⅓ " | 81/16" |
| 5 | 101/8" | 7" | 1 1/16 " | 81/16" |
| 6 | 11 ¹⁵ / ₁₆ '' | 6 ¹³ // ₆ " | 1 1/4" | 81/16" |
| 7 | 13¾" | 65/8" | 1 1/6" | 81/16 " |
| 8 | 15% " | 6 ½ " | 1 % " | 81/16" |
| 9 | 173/8" | 61/4" | 1 13/16 " | 81/16" |
| 10 | 193/6" | 6½ ₆ " | 1 15/16 " | 81/16 " |
| 11 | 21" | 5 1/8" | 23/6" | 8½ ₆ " |
| 12 | 22 ¹³ / ₁₆ " | 5 ¹¹ / ₁₆ " | 25/6" | 8½ ₆ " |

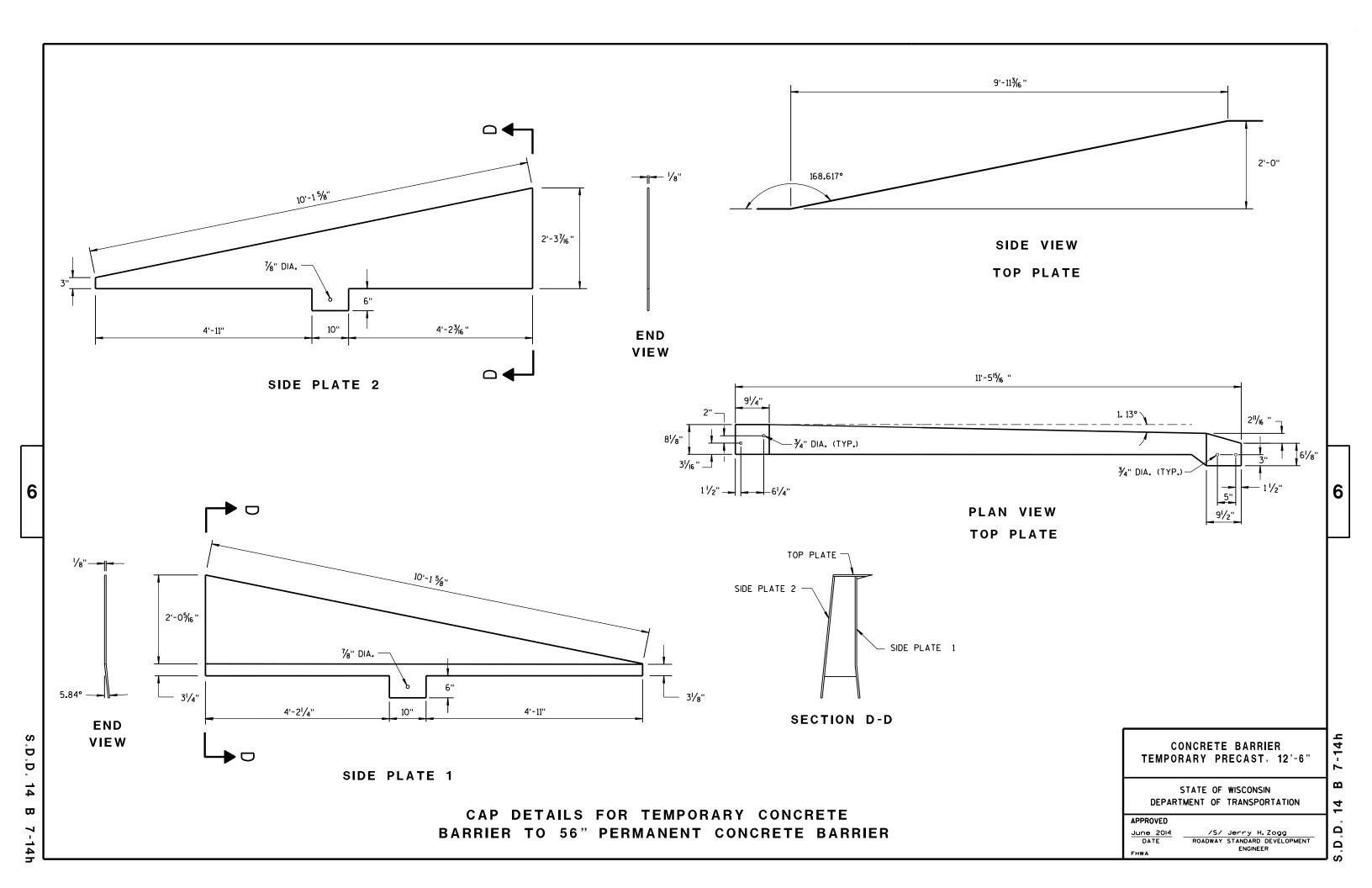
SIDE PLATES, TOP PLATE, END PLATE AND GUSSETS ARE 12 GAUGE ASTM A36 STEEL AND GALVANIZED.

GUSSETS AND END PLATE ARE STITCH WELDED ON 3 SIDES. TWO TRIANGULAR SIDE PLATES ARE STITCH WELDED TO TOP PLATE, END PLATE AND GUSSETS.

> CONCRETE BARRIER TEMPORARY PRECAST, 12'-6"

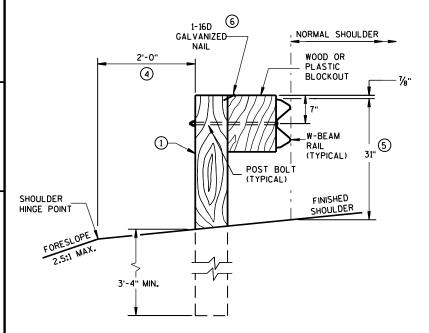
STATE OF WISCONSIN DEPARTMENT OF TRANSPORTATION

Ω Ω



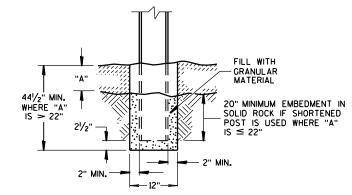
GENERAL NOTES

- (1) WOOD OR STEEL POSTS (W6X9 OR W6X8.5) MAY BE USED. DO NOT INTERMIX WOOD AND STEEL POSTS. INSTALL STEEL POSTS WITH HOLES ON APPROACHING TRAFFIC SIDE.
- 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 21/2 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).
- (5) FOR NEW MGS INSTALLATION TOP OF W-BEAM RAIL TOLERANCE IS ± 1". FOR EXISTING MGS INSTALLATION TOP OF W-BEAM IS BETWEEN 273/4" 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.



END VIEW

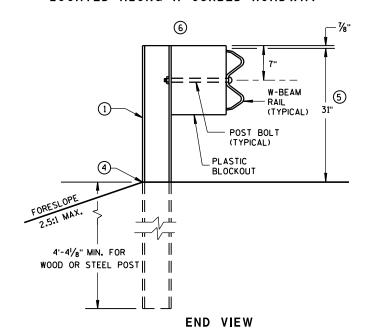
LOCATED ALONG A ROADWAY SHOULDER STANDARD INSTALLATION



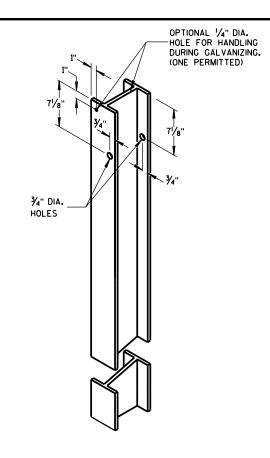
SETTING STEEL OR WOOD POST IN ROCK $^{\scriptsize{\textcircled{3}}}$



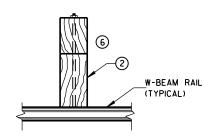
END VIEW
LOCATED ALONG A CURBED ROADWAY



MGS LONGER POST AT HALFPOST SPACING W BEAM (K)



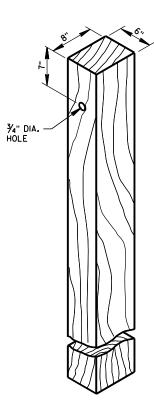
STEEL POST & HOLE PUNCHING DETAIL (w6X9)



PLAN VIEW
WOOD POST,
BLOCKOUT & BEAM



PLAN VIEW
STEEL POST,
PLASTIC BLOCKOUT & BEAM



WOOD POST (6" X 8") NOMINAL $^{\scriptsize \textcircled{1}}$



WOOD OR PLASTIC BLOCKOUT

MIDWEST GUARDRAIL SYSTEM (MGS) GUARDRAIL

STATE OF WISCONSIN
DEPARTMENT OF TRANSPORTATION

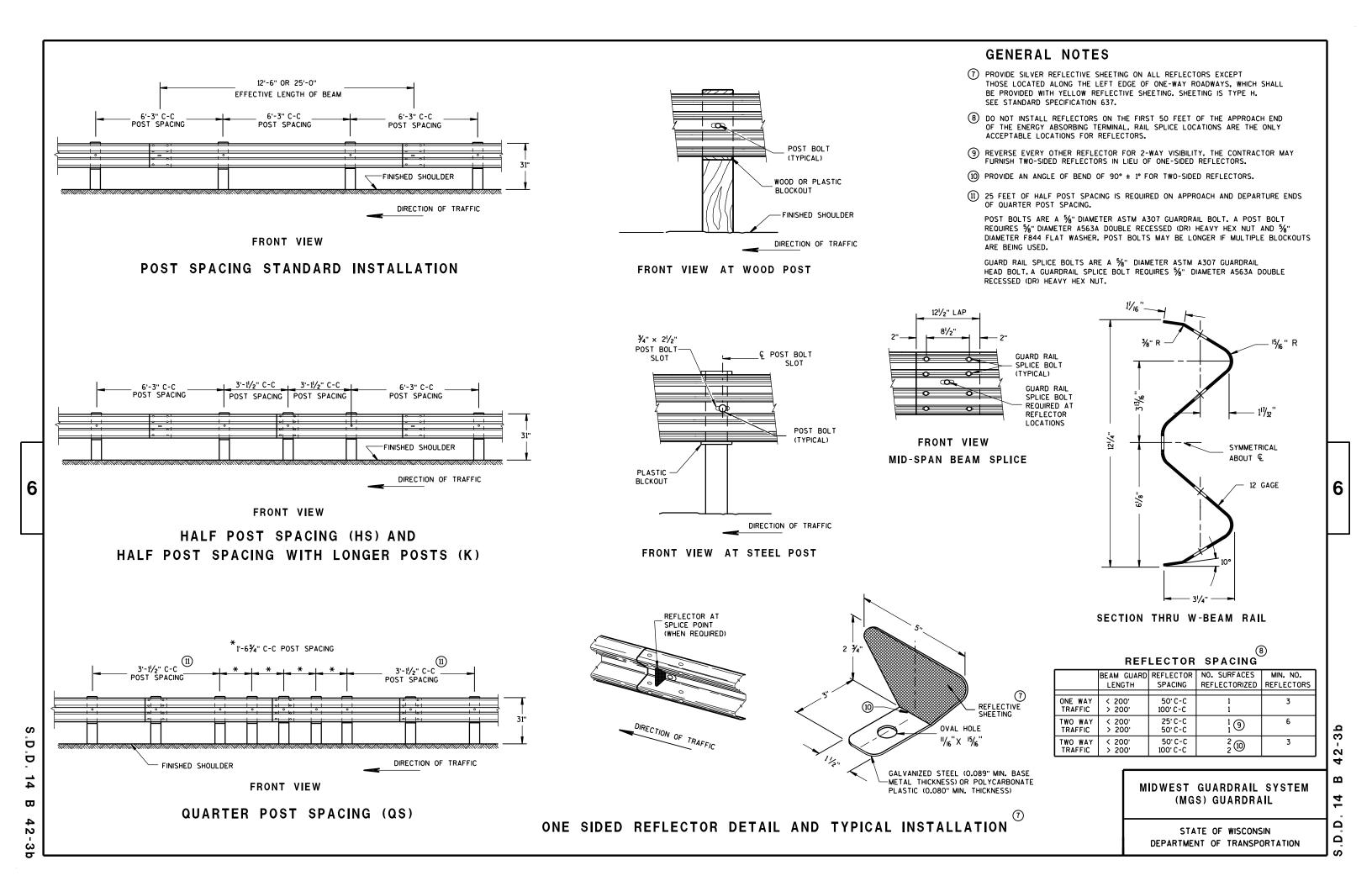
S.D.D. 14 B 4

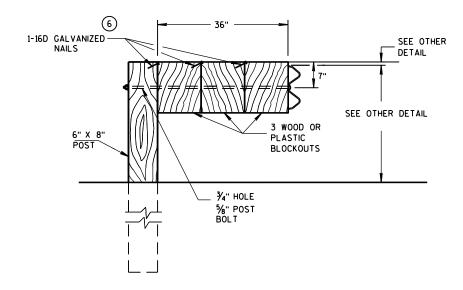
6

.D.D. 14 B

3a

2



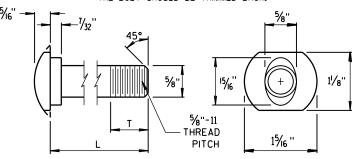


DETAIL FOR 36" BLOCKOUT DEPTH

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.

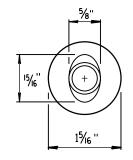
> DO NOT USE 16" OR 36" BLOCKOUTS IF IT CAUSES THE POST TO BE DRIVEN BEYOND SHOULDER HINGE POINT OR CAUSES A FIXED OBJECT TO BE WITHIN THE DEFLECTION DISTANCE OF THE BARRIER.

NOTE: 1. ALL FILLETS SHALL HAVE A MINIMUM RADIUS OF $\frac{1}{16}$ ". 2. IF THE BOLT EXTENDS MORE THAN 1/4" FROM THE NUT THE BOLT SHOULD BE TRIMMED BACK.

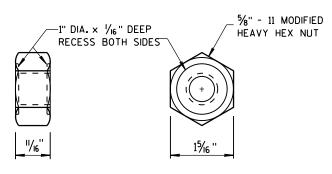


POST BOLT TABLE

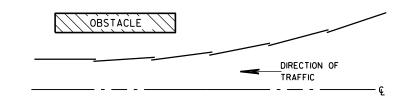
| 11/8" |
|--------|
| 437 |
| 13/4" |
| 4" |
| 41/16" |
| 4" |
| 41/16" |
| 4" |
| |



ALTERNATE BOLT HEAD

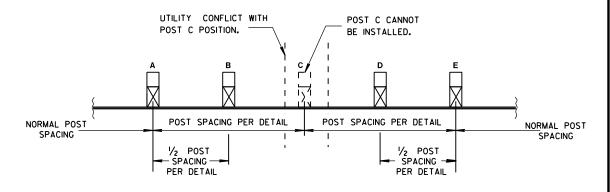


POST BOLT AND RECESS NUT



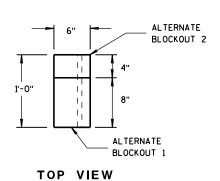
PLAN VIEW

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

APPROVED

June 2014 /S/ Jerry H. Zogg ROADWAY STANDARDS DEVELOPMENT ENGINEER FHWA

٦ Ö ₩ 2

S

6

 $\mathbf{\omega}$ Ω

Ö



S.D.D.

₩

SECTION A-A SECTION B-B

9 H

PLAN VIEW

BILL OF MATERIALS

| PART NO. | DESCRIPTION MATERIALS PROVIDED BY MGS EAT MANUFACTURER. SEE MANUFACTURER'S DETAILS FOR MORE INFORMATION. |
|-------------|--|
| 1 | WOOD BREAKAWAY POST |
| 2 | 6" X 8" X 0.188", 6'-0" LONG FOUNDATION TUBE AT POSTS 1AND 2 |
| 3 | WOOD CRT |
| 4 | WOOD BLOCKOUT |
| (5) | PIPE SLEEVE |
| 6 | BEARING PLATE |
| 7 | BCT CABLE ASSEMBLY |
| 8 | ANCHOR CABLE BOX |
| 9 | GROUND STRUT |
| 10 | PERFORATED W-BEAM RAIL END PANEL, 12'-6" LONG. |
| (11) | STANDARD W-BEAM RAIL.MULTIPLE SECTIONS REQUIRED. SECTIONS VARY IN LENGTH. |
| 12 | END SECTION EAT |
| (3) | 0.040" ALUMINUM SHEET WITH REFLECTIVE SHEETING TYPE F PER SECTION 637 OF THE STANDARD SPECIFICATIONS |
| 14) | EAT MARKER POST - YELLOW (SEE APPROVED PRODUCTS LIST) |



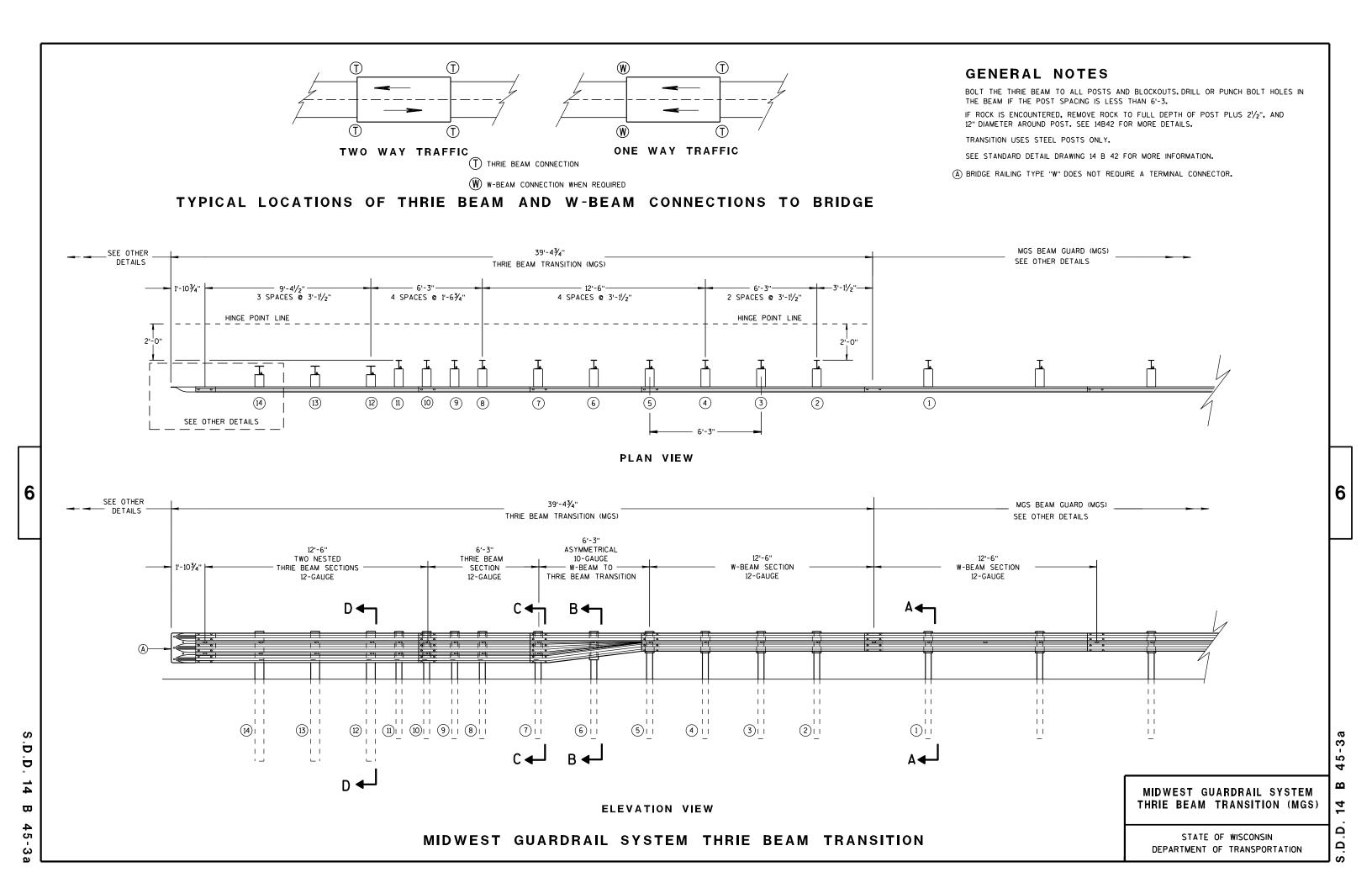
MIDWEST GUARDRAIL SYSTEM ENERGY ABSORBING TERMINAL (MGS)

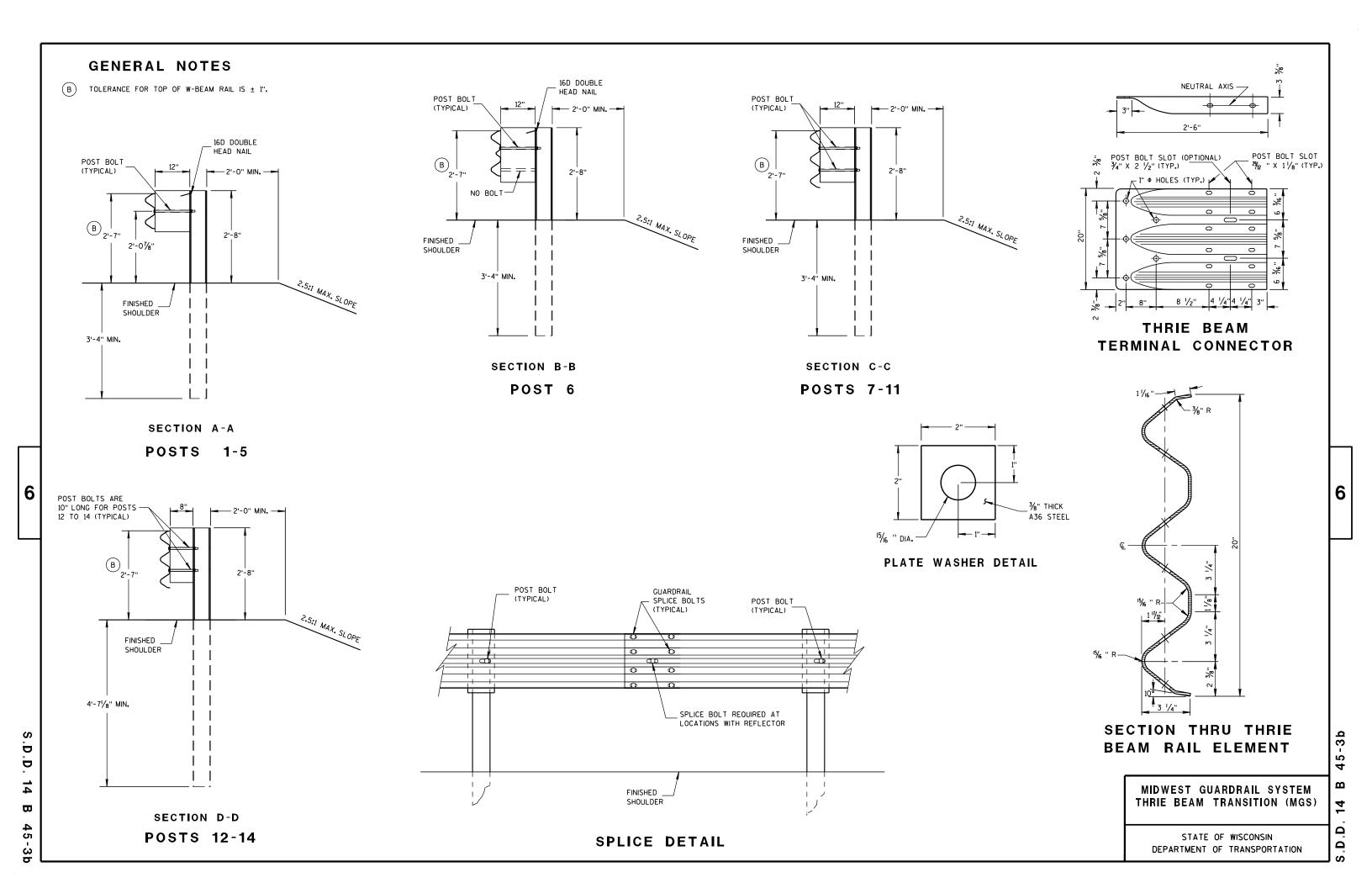
STATE OF WISCONSIN DEPARTMENT OF TRANSPORTATION

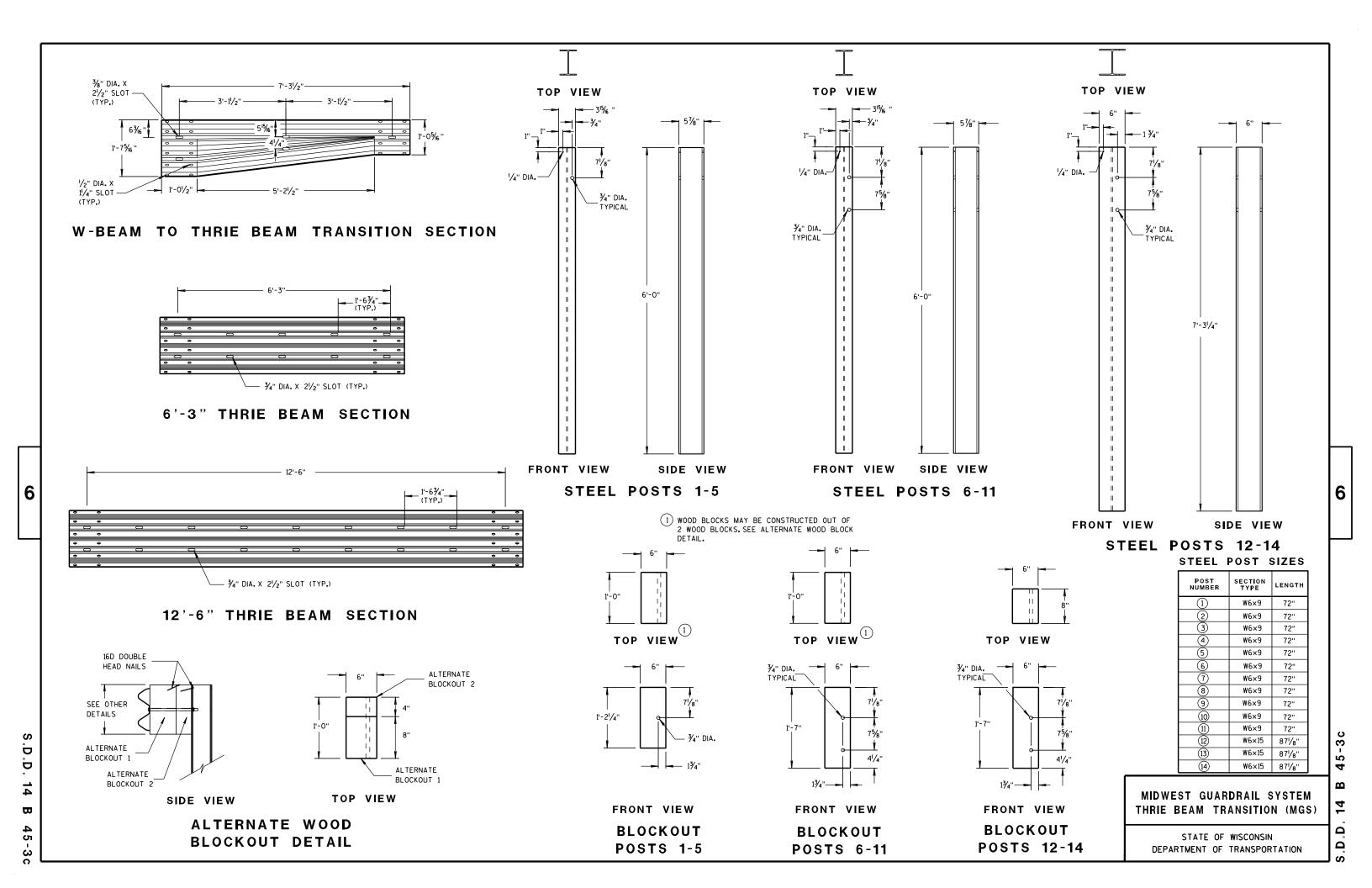
44-2b

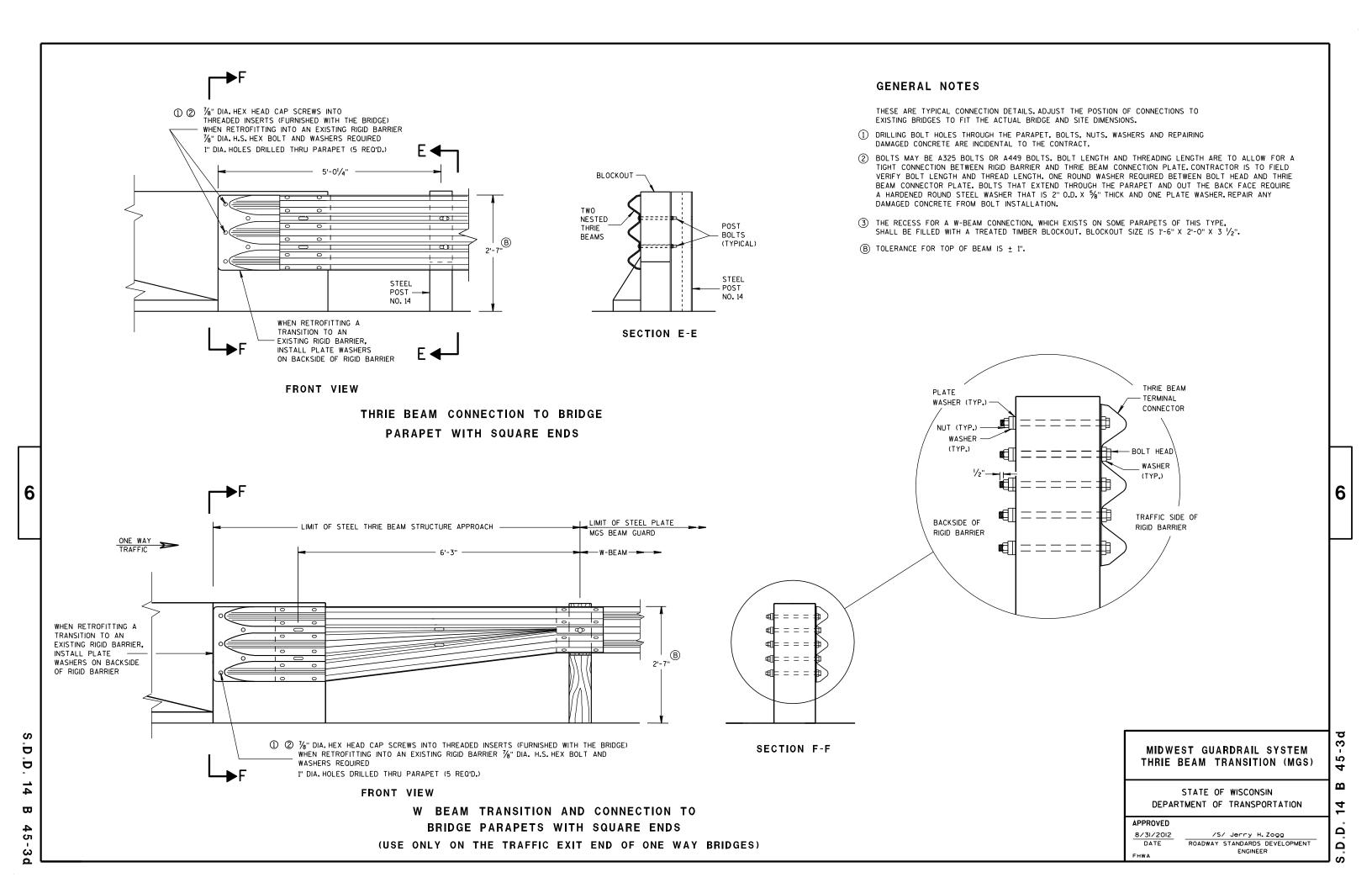
 $\mathbf{\omega}$ 14 ٠٠ ت







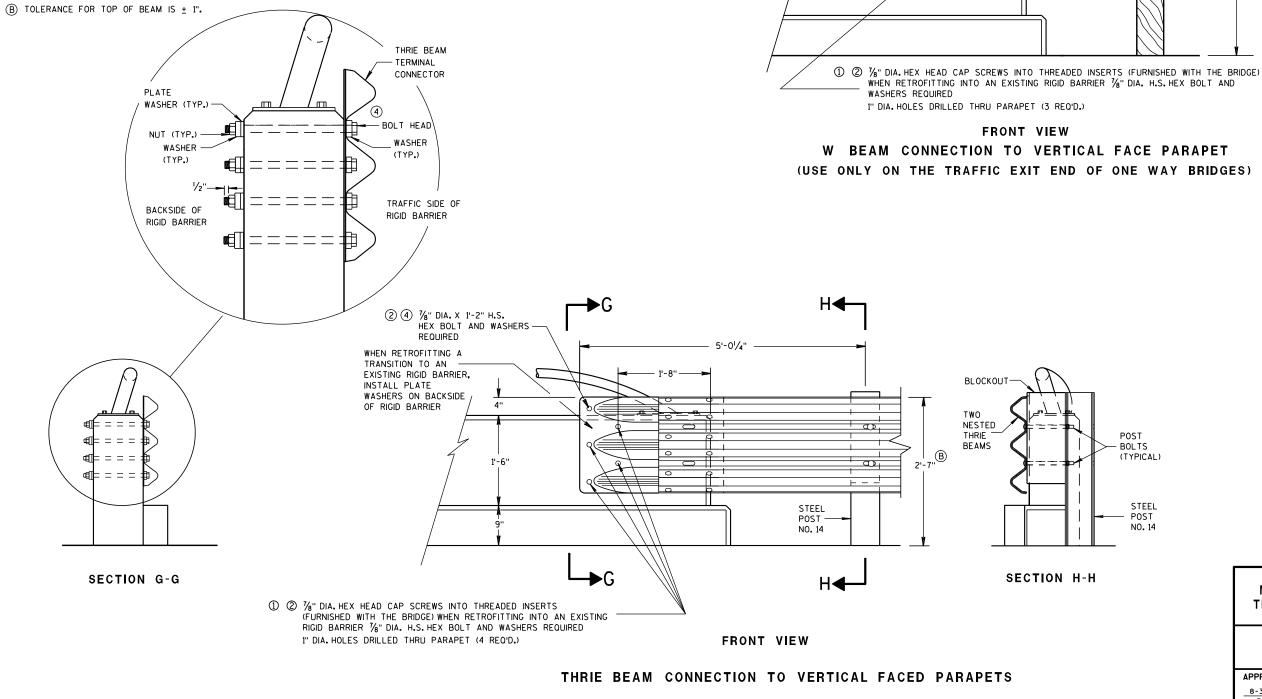




D

THESE ARE TYPICAL CONNECTION DETAILS. ADJUST THE POSTION OF CONNECTIONS TO EXISTING BRIDGES TO FIT THE ACTUAL BRIDGE AND SITE DIMENSIONS.

- (1) DRILLING BOLT HOLES THROUGH THE PARAPET, BOLTS, NUTS, WASHERS AND REPAIRING DAMAGED CONCRETE ARE INCIDENTAL TO THE CONTRACT.
- (2) 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%" THICK AND ONE PLATE WASHER REPAIR ANY DAMAGED CONCRETE FROM BOLT INSTALLATION.
- (3) 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". BLOCK IS INCIDENTAL TO THE CONTRACT.
- 4 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.



② 1/8" DIA. X 1'-2" H.S.

REQUIRED

WHEN RETROFITTING

A TRANSITION TO

AN EXISTING RIGID

BARRIFR INSTALL -

PLATE WASHERS

ON BACKSIDE OF

RIGID BARRIER

HEX BOLT AND WASHERS

W BEAM TERMINAL -CONNECTOR

4

LIMIT OF STEEL PLATE

5'-0 1/4" -

4'-2 1/4"

- 3'-1¹/2'

MGS BEAM GUARD

ONE WAY

(B)

6

2

 $\mathbf{\omega}$

Ω

MIDWEST GUARDRAIL SYSTEM

THRIE BEAM TRANSITION (MGS)

STATE OF WISCONSIN

DEPARTMENT OF TRANSPORTATION

/S/ Jerry H. Zogg

ROADWAY STANDARDS DEVELOPMENT

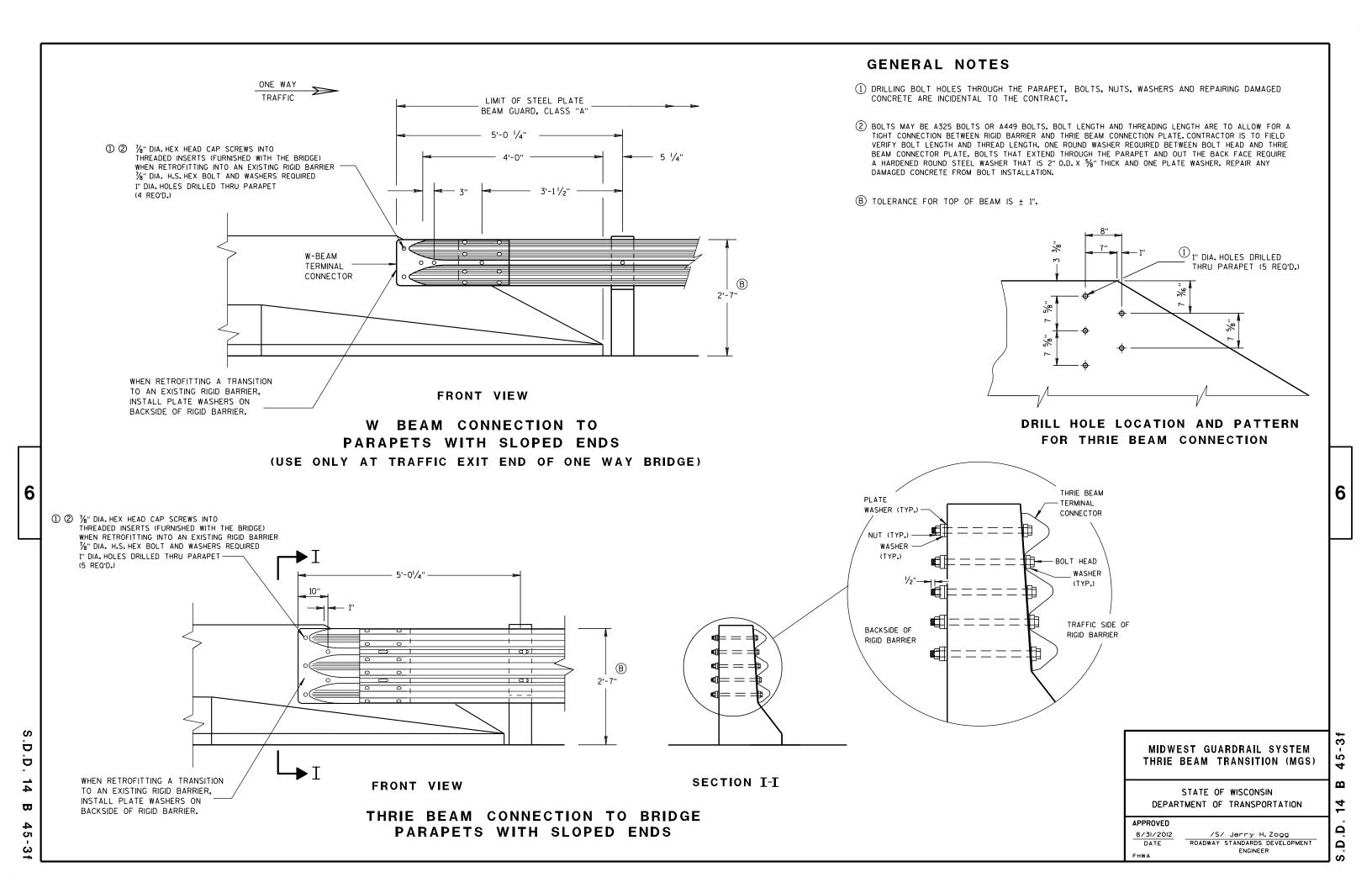
ENGINEER

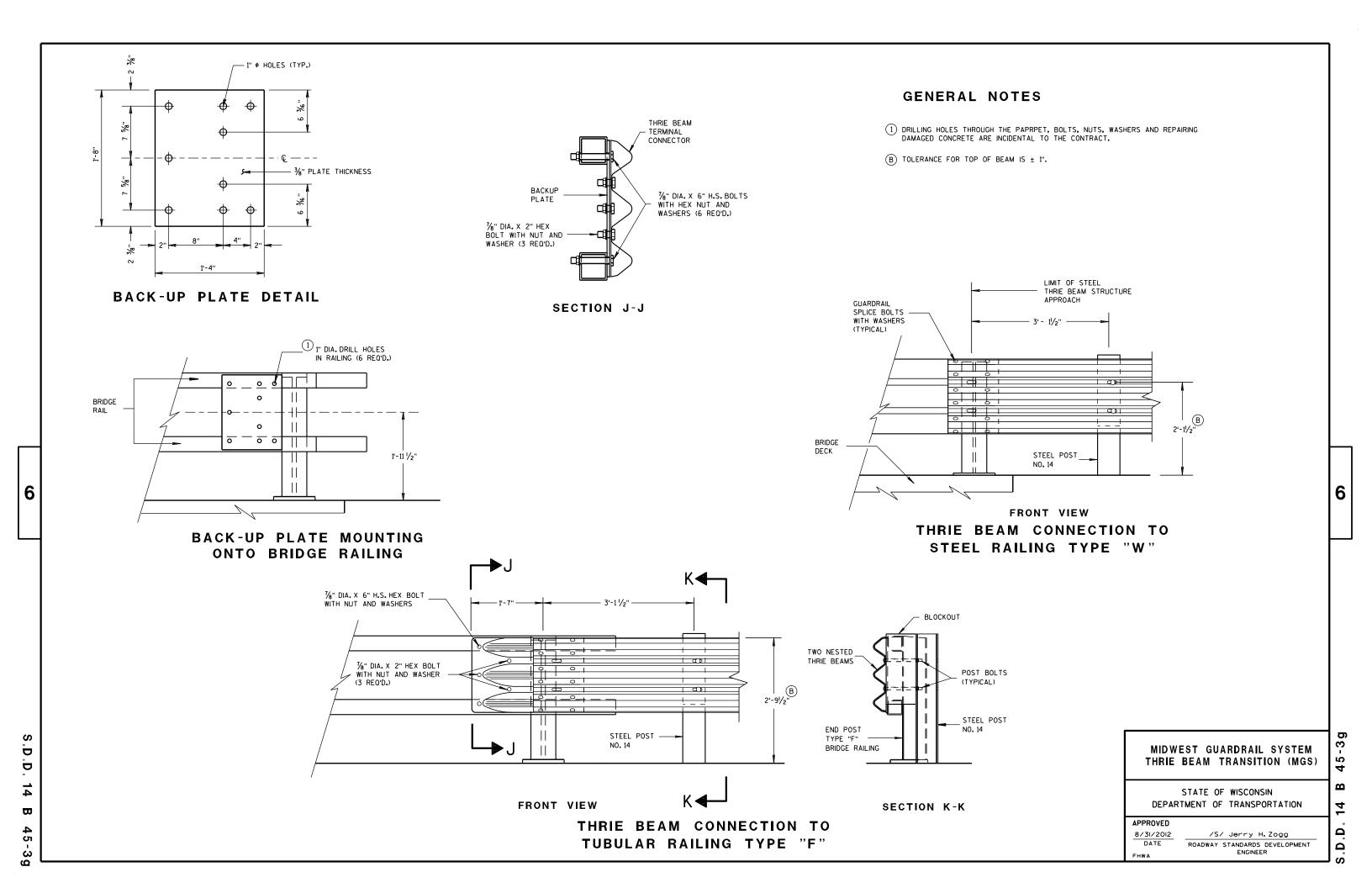
APPROVED

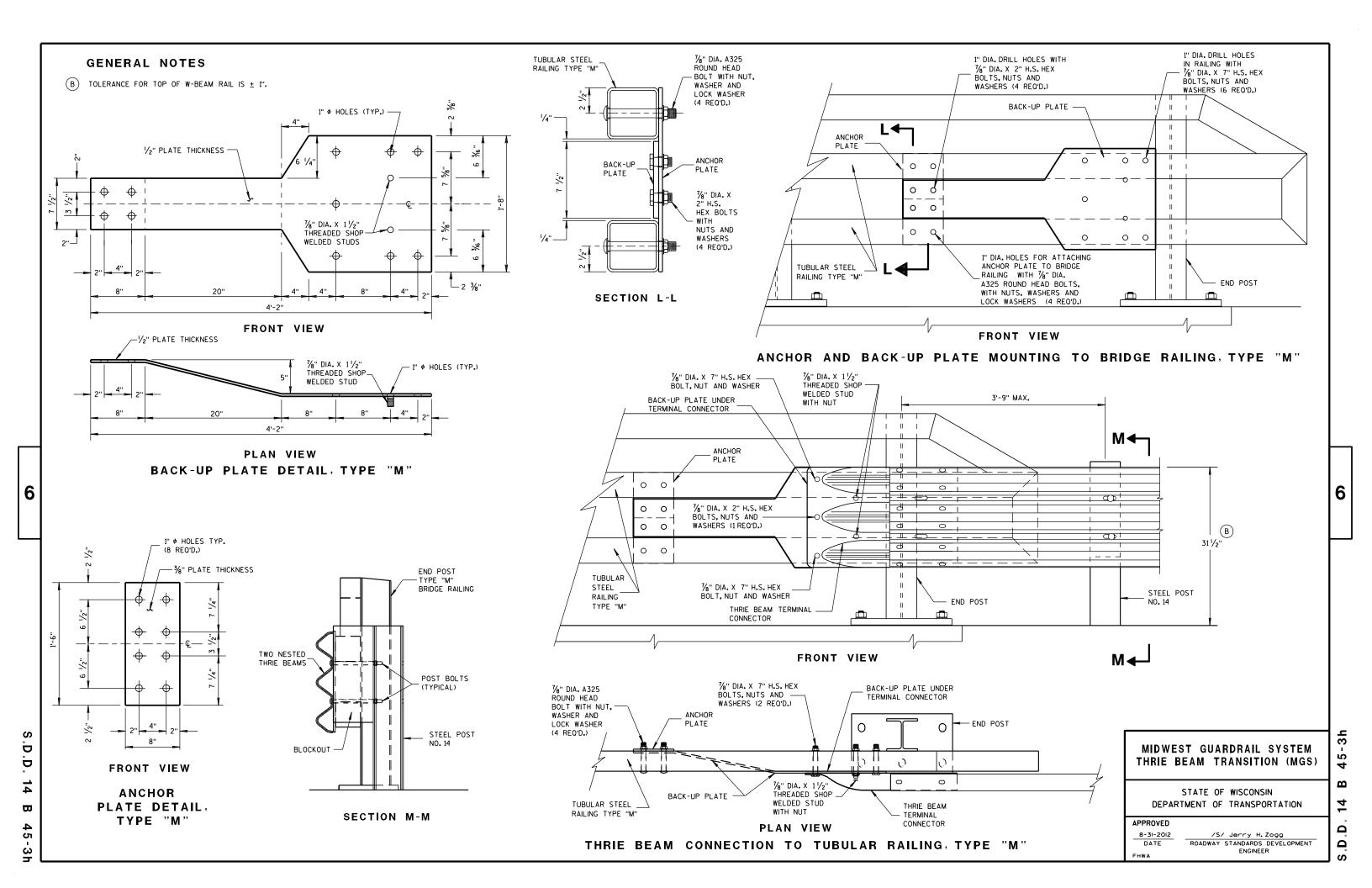
8-31-2012

2'-7"

TRAFFIC







| (PER ASSEMBLY) | | | | | |
|----------------|----------|---------------|--|-----------|--|
| PLATE | QUANTITY | SHAPE | SIZE (A × B × C × D) | THICKNESS | |
| P1 | 1 | в₫ | 20" × 20" | 3/6 " | |
| P2 | 1 | B∱c | 20" × 20" × 28%6" | ¾6 " | |
| Р3 | 1 | B C D | 39" × 35/8" × 20" × 191/6" | 3∕16 '' | |
| S1 | 4 | B | 18 1/16 " × 3 1/8" × 18 1/4" | 1/4" | |
| S2 | 1 | B C D | 10 ¹ / ₄ " × 2 ¹ / ₁₆ " × 10 ³ / ₈ " × ¹ / ₂ " | 1/4" | |
| S3 | 1 | B C D | $3" \times 1^{1}/_{16}" \times 3^{1}/_{8}" \times 1^{1}/_{2}"$ | 1/4" | |
| S4 | 1 | вД | 6½" × 2½6" | 1/4" | |
| S5 | 1 | В | 6½" × ½" | 1/4" | |
| S6 | 1 | В | 7¾" × 1¾" | 1/4" | |
| S7 | 1 | A DC | 2%6" × 6" × 3%" × 5%" | 1/4" | |
| S8 | 1 | A∰C | 1 ⁵ / ₃₂ " × 7 ¹ / ₂ " × 2 ¹ / ₂ " × 7 ³ / ₈ " | 1/4" | |
| S9 | 1 | C | $6\frac{1}{16}$ " × $6\frac{3}{16}$ " × $1\frac{3}{32}$ " | 1/4" | |
| S10 | 1 | A D C | 1%" × 9%" × 3%" × 911/16" | 1/4" | |
| S11 | 1 | C A | 8½" × 8¾" × 1⅓6 " | 1/4" | |

D

Ö

 $\boldsymbol{\varpi}$

SINGLE SLOPE CONNECTION PLATE

MIDWEST GUARDRAIL SYSTEM THRIE BEAM TRANSITION (MGS)

STATE OF WISCONSIN
DEPARTMENT OF TRANSPORTATION

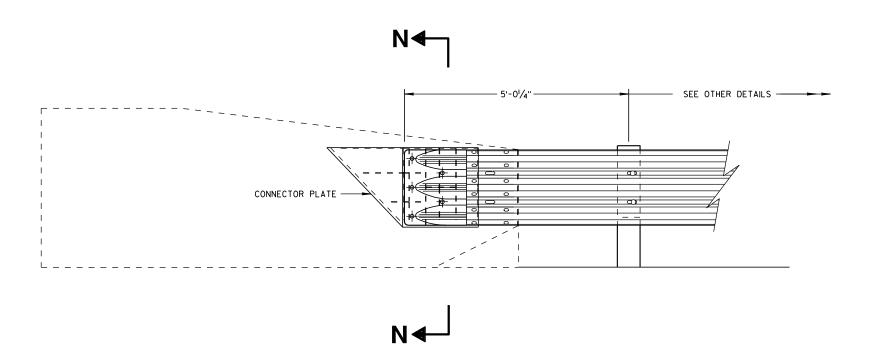
APPROVED

8/31/2012 /S/ Jerry H. Zogg

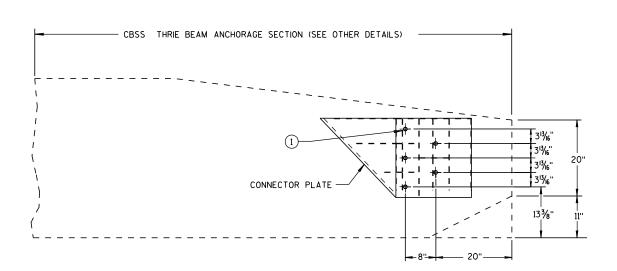
DATE ROADWAY STANDARDS DEVELOPMENT ENGINEER

S.D.D. 1

 $\mathbf{\omega}$



THRIE BEAM CONNECTION TO SINGLE SLOPE BARRIER

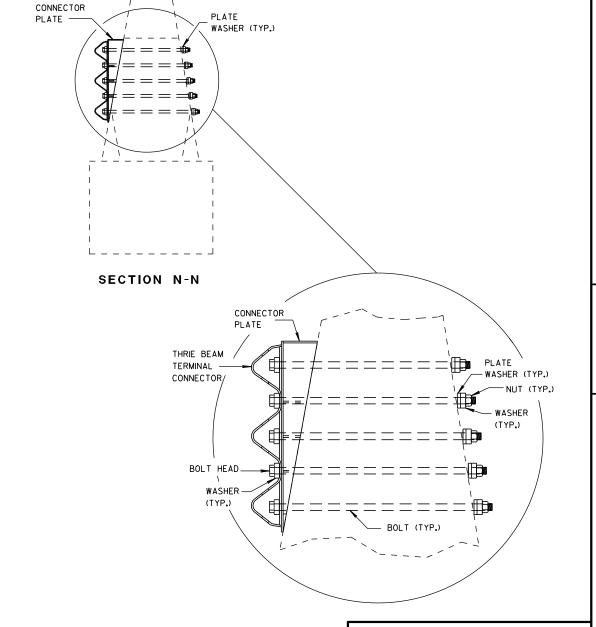


SINGLE SLOPE CONNECTION PLATE PLACEMENT

GENERAL NOTES

CONNECTOR PLATE, DRILLING BOLT HOLES THROUGH THE PARAPET, BOLTS, WASHERS AND REPAIRING DAMAGED CONCRETE ARE INCIDENTAL TO THE CONTRACT.

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 5/8" THICK AND ONE PLATE WASHER. REPAIR ANY DAMAGED CONCRETE FROM BOLT INSTALLATION.



MIDWEST GUARDRAIL SYSTEM THRIE BEAM TRANSITION (MGS)

45

 $\mathbf{\omega}$

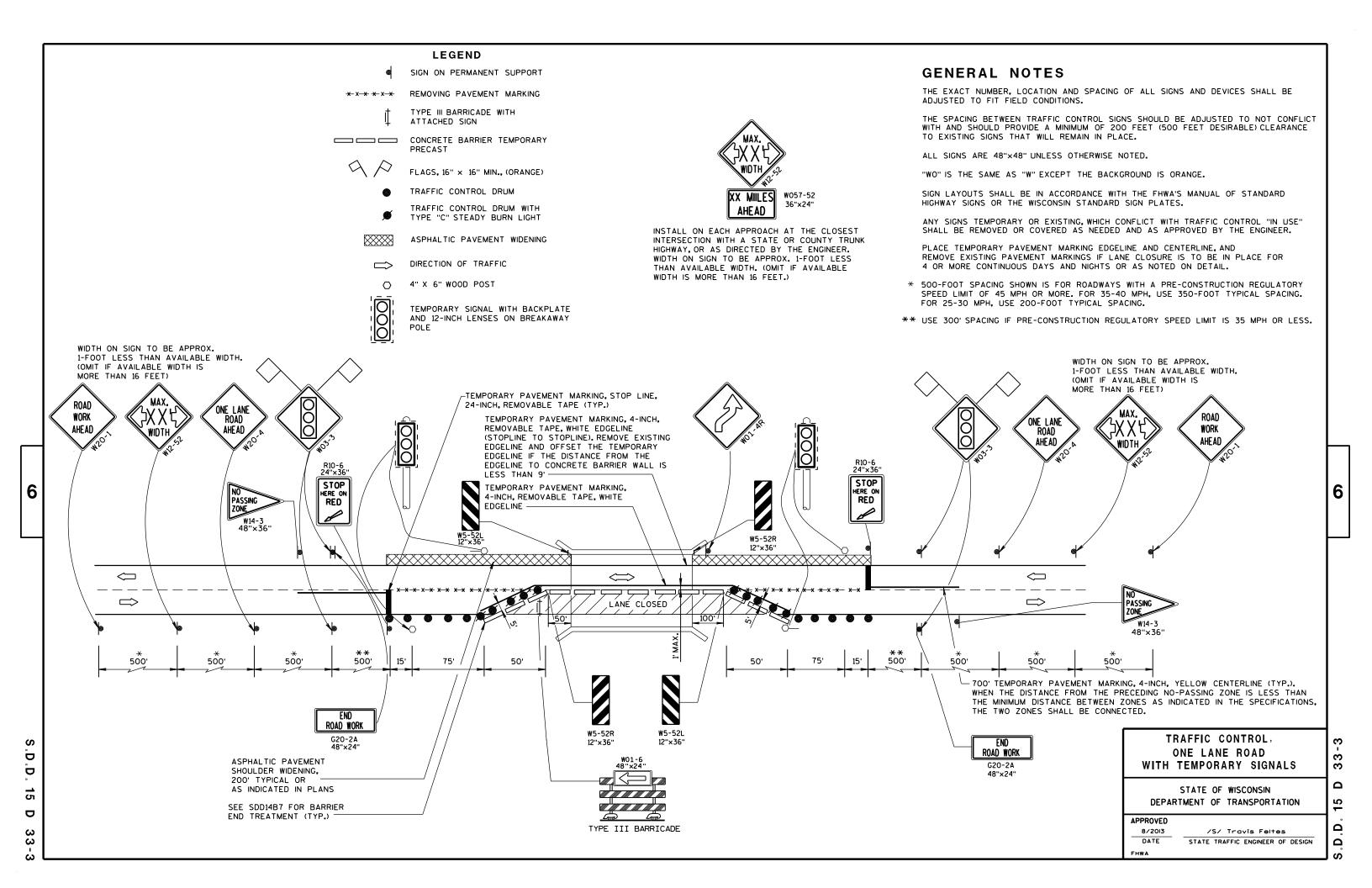
Ω

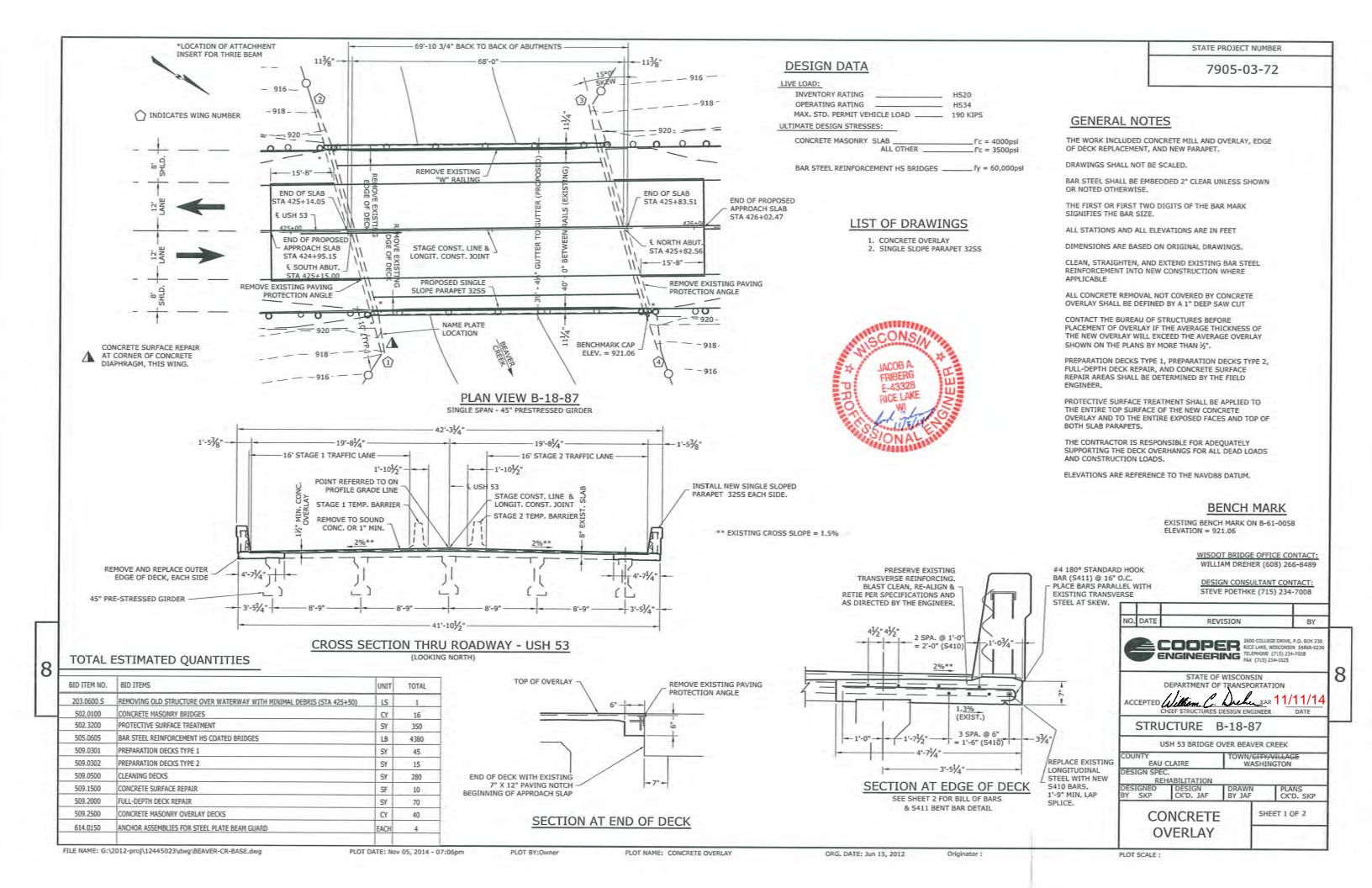
STATE OF WISCONSIN DEPARTMENT OF TRANSPORTATION

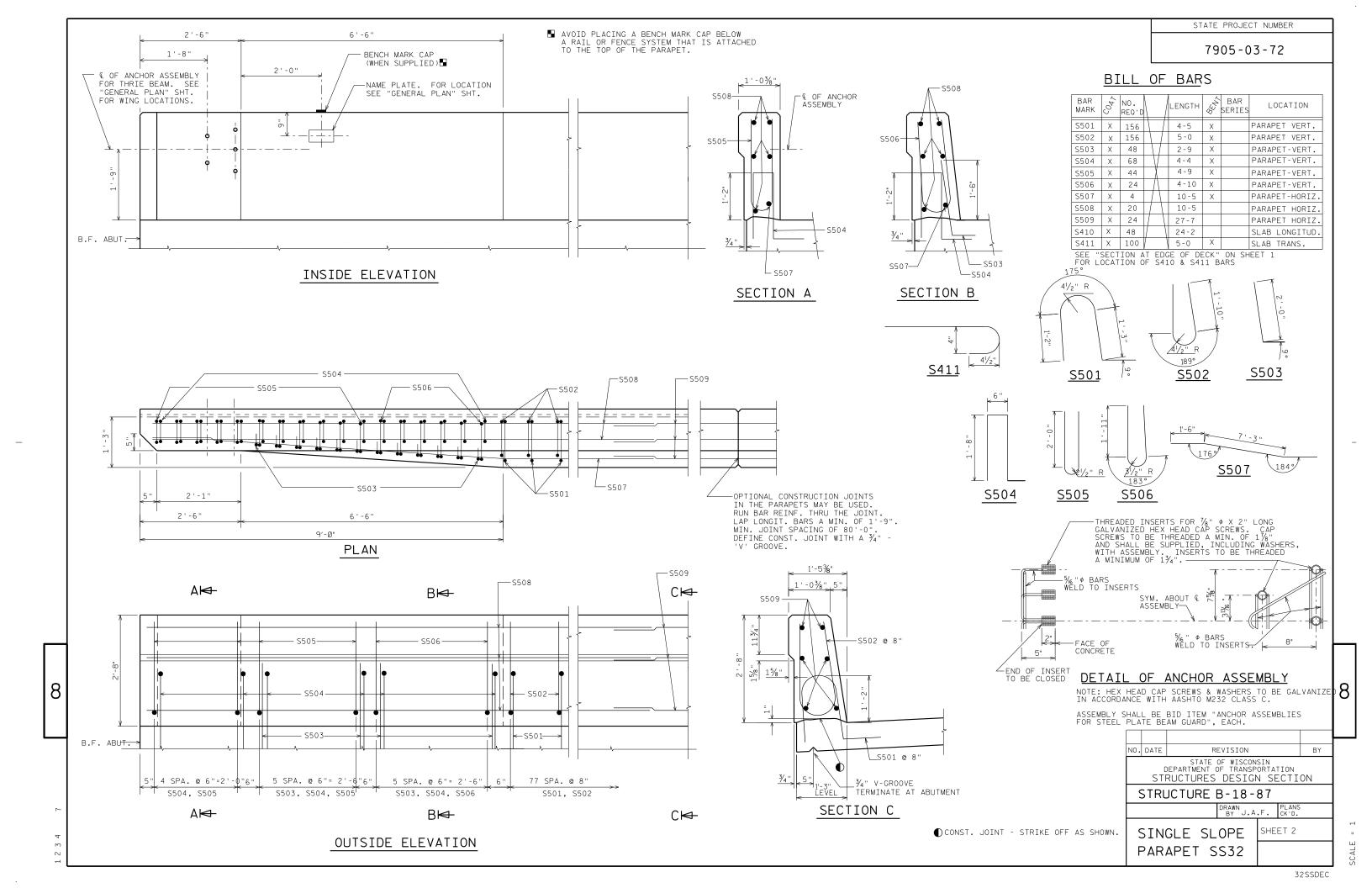
APPROVED 8/31/2012

/S/ Jerry H. Zogg ROADWAY STANDARDS DEVELOPMENT ENGINEER











Wisconsin Department of Transportation

Dedicated people creating transportation solutions through innovation and exceptional service.

http://www.dot.wisconsin.gov