GRE

FEBRUARY 2020

PROJECT ID: 9266-11-03

WITH: N/A

COUNTY: BROWN

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.	4	Right of Way Plat
Section No.	5	Plan and Profile
Section No.	6	Standard Detail Drawings
Section No.	7	Sign Plates
~~Section No.~~	~~8~~	~~Structure Plans~~
Section No.	9	Computer Earthwork Data
Section No.	9	Cross Sections

TOTAL SHEETS = 338



25

N

DESIGN DESIGNATION

A.A.D.T.	2015	=	13,000
A.A.D.T.	2040	=	14,700
D.H.V.		=	1,823
D.D.		=	59/41
T.		=	6.3%
DESIGN SPEED		=	40 MPH
ESALS		=	1,554,116

STATE OF WISCONSIN
DEPARTMENT OF TRANSPORTATION

PLAN OF PROPOSED IMPROVEMENT

V ASHWAUBENON, VANDERPERREN WAY

HOLMGREN WAY - ASHLAND AVENUE

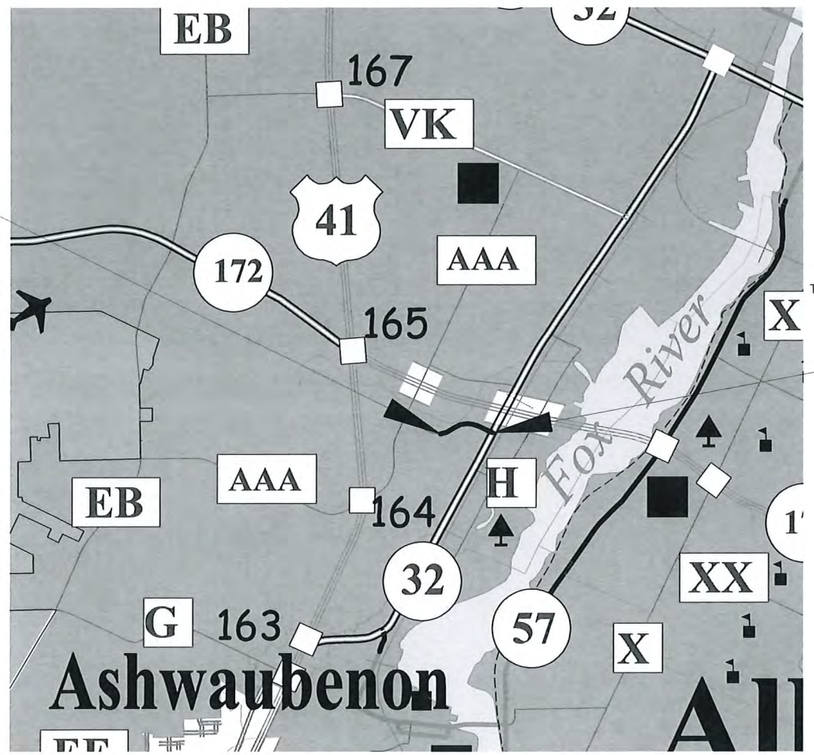
CTH HH

BROWN COUNTY

STATE PROJECT NUMBER
9266-11-03

STATE PROJECT	FEDERAL PROJECT	
	PROJECT	CONTRACT
9266-11-03	WISC 2020049	1

R-20-E



BEGIN PROJECT
STA 6+20.73 'EB'
Y= 553,138.001
X= 85,931.520

END PROJECT
STA 24+23.73 'EB'

R-20-E

LAYOUT SCALE 0 1 MI

TOTAL NET LENGTH OF CENTERLINE = 0.342 MILES

HORIZONTAL COORDINATES ON THIS PLAN ARE REFERENCED TO THE WISCONSIN COUNTY COORDINATE SYSTEM (WCCS), BROWN COUNTY NAD 83 (1991), IN U.S. SURVEY FEET.

ELEVATIONS SHOWN ON THIS PLAN ARE REFERENCED TO THE NATIONAL GEODETIC VERTICAL DATUM (NAVD88).

CONVENTIONAL SYMBOLS

PLAN
- CORPORATE LIMITS
- PROPERTY LINE
- LOT LINE
- LIMITED HIGHWAY EASEMENT
- EXISTING RIGHT OF WAY
- PROPOSED OR NEW R/W LINE
- SLOPE INTERCEPT
- REFERENCE LINE (300'EB')
- EXISTING CULVERT
- PROPOSED CULVERT (Box or Pipe)
- COMBUSTIBLE FLUIDS (CAUTION)
- MARSH AREA
- WOODED OR SHRUB AREA

PROFILE
- GRADE LINE
- ORIGINAL GROUND
- MARSH OR ROCK PROFILE (To be noted as such) (ROCK)
- SPECIAL DITCH (LABEL)
- GRADE ELEVATION (95.36)
- CULVERT (Profile View)

UTILITIES
- ELECTRIC (E)
- FIBER OPTIC (FO)
- GAS (G)
- SANITARY SEWER (SAN)
- STORM SEWER (SS)
- TELEPHONE (T)
- WATER (W)
- UTILITY PEDESTAL
- POWER POLE
- TELEPHONE POLE

ACCEPTED FOR
BROWN_COUNTY
Date 9/10/19
[Signature and Title of Official]

ORIGINAL PLANS PREPARED BY
AECOM

WISCONSIN
SARAH L. ERICSON
E-44591
DE PERE, WIS.
PROFESSIONAL ENGINEER

DATE: 9/10/19
(Professional Engineer Signature)

STATE OF WISCONSIN
DEPARTMENT OF TRANSPORTATION

PREPARED BY
Surveyor SURVEYOR
Designer DESIGNER

APPROVED FOR THE DEPARTMENT
DATE: 9/11/19
(Signature)

E

FILE NAME : P:\60543140\900_CAD_GIS\910_CAD\92661102\SHEETSPLAN\010101_TI.DWG PLOT DATE : 9/10/2019 1:29 PM PLOT BY : ERICSON, SARAH PLOT NAME :

GENERAL NOTES

THE LOCATION OF EXISTING UTILITY INSTALLATIONS AS SHOWN ON THE PLANS ARE APPROXIMATE.
THERE MAY BE OTHER UTILITY INSTALLATIONS WITHIN THE PROJECT AREA THAT ARE NOT SHOWN. THE CONTRACTOR IS FULLY RESPONSIBLE FOR LOCATING AND AVOIDING ALL UNDERGROUND AND ABOVE GROUND STRUCTURES AND FACILITIES.

RADII, ELEVATIONS, AND DIMENSIONS ARE GIVEN AT THE PAVEMENT EDGES, UNLESS OTHERWISE NOTED IN THE PLANS.

ADJUST TRAFFIC CONTROL DEVICE LOCATIONS TO FIT FIELD CONDITIONS AS DIRECTED BY THE ENGINEER.

EROSION CONTROL ITEMS SHOWN IN THE MISCELLANEOUS QUANTITIES ARE AT SUGGESTED LOCATIONS. THE ENGINEER MAY MODIFY LOCATIONS TO FIT FIELD CONDITIONS.

WETLANDS, WATERWAYS, AND OTHER ENVIRONMENTALLY SENSITIVE AREAS SHALL BE PROTECTED AT ALL TIMES.
DO NOT STORE EQUIPMENT OR MATERIALS NEAR THESE SITES UNLESS APPROVED BY THE ENGINEER.

TEMPORARY STOCKPILING AND/OR PERMANENT FILL SHALL NOT BE ALLOWED WITHIN THE MAPPED FEMA FLOODWAY.

TURTLE FENCING IS PRESENT AROUND THE EXISTING DETENTION POND AND ALONG DUTCHMAN CREEK BETWEEN HOLMGREN WAY AND THE STH 172 OFF RAMP. REMOVAL OF THE FENCE WILL BE REQUIRED. ENSURE THAT SILT FENCE IS INSTALLED BETWEEN THE REMOVED GAPS AND IS TIED INTO THE EXISTING TURTLE FENCE TO KEEP TURTLES FROM ENTERING THE PROJECT SITE. RESTORE ALL TURTLE FENCING THAT WAS REMOVED IMMEDIATELY AFTER SILT FENCE IS REMOVED.

FILL ALL VOIDS IN RIPRAP WITH 0.5-INCH TO 2-INCH GRAVEL TO ENSURE THAT HATCHLING TURTLES CANNOT BECOME ENTRAPPED IN LARGE VOIDS BETWEEN ROCKS.

MAINTAIN EXISTING TREES WITHIN THE PROJECT LIMITS. TREES TO BE REMOVED AS SHOWN IN THE REMOVAL PLANS MUST BE APPROVED BY THE ENGINEER PRIOR TO REMOVAL.

TOPSOIL, FERTILIZE, AND SEED ALL DISTURBED AREAS WITHIN THE RIGHT OF WAY WHERE PAVEMENT OR GRAVEL IS NOT BEING PLACED.

ASPHALT PAVEMENT TO BE CONSTRUCTED BY OTHERS.

ORDER OF SECTION 2

GENERAL NOTES
PROJECT OVERVIEW
TYPICAL SECTIONS
CONSTRUCTION DETAILS
REMOVALS
PLAN DETAILS
EROSION CONTROL
STORM SEWER
PERMANENT SIGNING
MARKING PLAN
TRAFFIC CONTROL
DETOURS
ALIGNMENT DIAGRAM

ALIGNMENT LABELS

ALIGNMENT NAME	ROADWAY
'EB'	CTH HH (VANDERPERREN WAY) EASTBOUND
'WB'	CTH HH (VANDERPERREN WAY) WESTBOUND
'A'	STH 172 EASTBOUND TO CTH HH EASTBOUND/WESTBOUND
'B'	CTH HH EASTBOUND TO STH 172 EASTBOUND
'C'	CTH HH WESTBOUND TO STH 172 EASTBOUND
'D'	CTH HH WESTBOUND OUTSIDE SHOULDER BETWEEN ON RAMPS
'ANE'	STH 172 EASTBOUND TO CTH HH EASTBOUND OUTSIDE SHOULDER
'ANW'	STH 172 EASTBOUND TO CTH HH WESTBOUND OUTSIDE SHOUDLER
'BNW'	STH 172 ON RAMP OUTSIDE SHOULDER
'SW'	STH 32 SOUTHBOUND TO CTH HH WESTBOUND CURB RETURN
'NW'	CTH HH EASTBOUND TO STH 32 SOUTHBOUND CURB RETURN

UTILITY CONTACTS

ATC MANAGEMENT INC. - ELECTRIC
MATT ERNST
PO BOX 6113
DE PERE, WI 54115
920-338-6573
MERNST@ATCLLC.COM

AT&T WISCONSIN - TELEPHONE
SHEA GORZELANCZYK
205 SOUTH JEFFERSON STREET
GREEN BAY, WI 54301
920-433-4250
SG2528@ATT.COM

CENTURYLINK - COMMUNICATIONS
FORMERLY KNOWN AS LEVEL 3 COMMUNICATIONS
SHAD GARCIA
3235 INTERTECH DRIVE, SUITE 600
BROOKFIELD, WI 53045
414-908-1009
SHAD.GARCIA@LEVEL3.COM

CHARTER COMMUNICATIONS - COMMUNICATIONS
VINCE ALBIN
3520 EAST DESTINATION DRIVE
APPLETON, WI 54915
920-831-9249
VINCE.ALBIN@CHARTER.COM

GREEN BAY METRO SEWERAGE - SANITARY
ROB REINHART
2231 NORTH QUINCY STREET
GREEN BAY, WI 54302
920-438-1035
RREINHART@NEWWATER.US

VILLAGE OF ASHWAUBENON - STORM SEWER, SANITARY, AND WATER
DOUG MARTIN
2155 HOLMGREN WAY
GREEN BAY, WI 54304
920-492-2308
DMARTIN@ASHWAUBENON.COM

WINDSTREAM COMMUNICATIONS - COMMUNICATIONS
MARY BETH FISHER
13935 BISHOPS DR
BROOKFIELD, WI 53005
262-792-7938
MARY.B.FISHER@WINDSTREAM.COM

WISCONSIN PUBLIC SERVICE - GAS
JIM EIDEN
2850 S ASHLAND AVENUE
GREEN BAY, WI 54304
920-617-5231
JAMES.EIDEN@WISCONSINPUBLICSERVICE.COM

WISCONSIN PUBLIC SERVICE - ELECTRIC
ROBERT SMITH
2850 S ASHLAND AVENUE
GREEN BAY, WI 54304
920-617-5284
ROBERT.SMITH@WISCONSINPUBLICSERVICE.COM

WISCONSIN DEPARTMENT OF TRANSPORTATION - ITS
RANDY ASMAN
944 VANDERPERREN WAY
GREEN BAY, WI 54304
920-360-3107
RANDY.ASMAN@DOT.WI.GOV

PROJECT CONTACTS

WISCONSIN DNR
JAMES DOPERALSKI JR.
2984 SHAWANO AVENUE
GREEN BAY, WI 54313
920-412-0165
JAMES.DOPERALSKI@WISCONSIN.GOV

BROWN COUNTY HIGHWAY DEPARTMENT
NICHOLAS UITENBROEK
2198 GLENDALE AVENUE
GREEN BAY, WI 54303
920-662-2152
UITENBROEK_NS@CO.BROWN.WI.US

DIGGERS HOTLINE
Dial 811 or (800) 242-8511
www.DiggersHotline.com

2

2

N

STH 172

STH 172 OFF RAMP

STH 172 ON RAMP

DUTCHMAN CREEK

B-05-152
(NO WORK)

END CONSTRUCTION
STA 326+21.23 'B'

END CONSTRUCTION
STA 322+70.38 'A'

BEGIN CONSTRUCTION
STA 325+69.15 'C'

EXISTING POND

CTH HH (VANDERPERREN WAY)

HOLMGREN WAY

STH 32 (ASHLAND AVENUE)

INDUSTRY COURT

POST

GUY

15'WB'

15'EB'

10'WB'

10'EB'

5'WB'

5'EB'

20'WB'

20'EB'

325'B'

325'C'

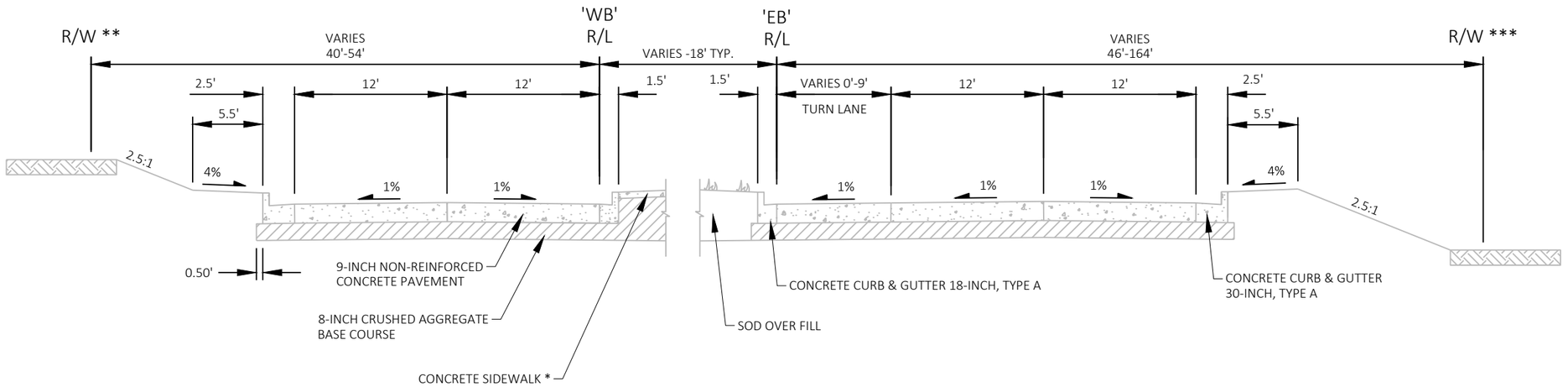
BEGIN CONSTRUCTION
STA 3+50.63 'EB'

BEGIN PROJECT
STA 6+20.73 'EB'
Y= 553,138.001
X= 85,931.520

END PROJECT
STA 24+23.73 'EB'

PROJECT NO: 9266-11-03	HWY: CTH HH	COUNTY: BROWN	PROJECT OVERVIEW	SHEET 3	E

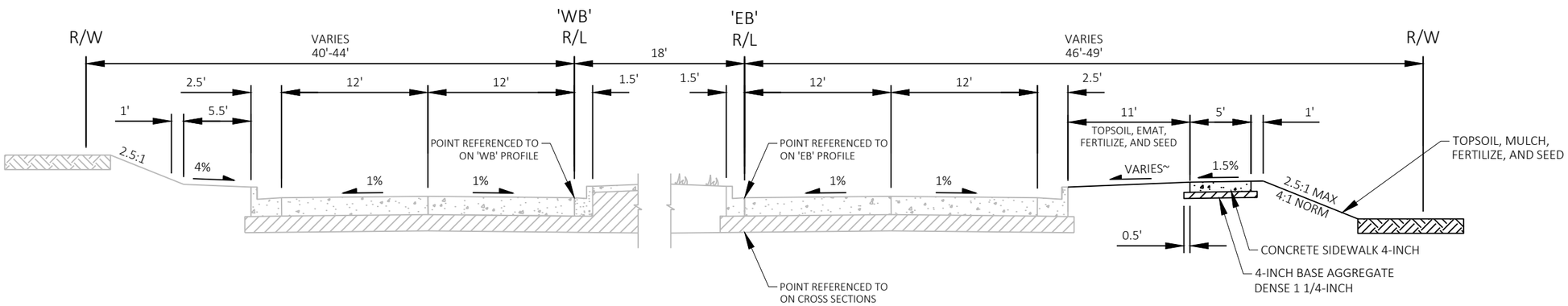
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LAYOUT NAME - 1
PLOT DATE : 10/1/2019 11:05 AM
PLOT BY : ERICSON, SARAH
PLOT NAME :
PLOT SCALE : 1 IN:200 FT
WISDOT/CADDS SHEET 42



EXISTING TYPICAL SECTION
STA 3+49 'EB' TO 24+24 'EB'

NOTES:
* SIDEWALK IS PRESENT IN THE MEDIAN AT THE FOLLOWING LOCATIONS:
STA 4+25 'EB' TO STA 5+30 'EB'
STA 14+05 'EB' TO STA 15+49 'EB'
** RIGHT OF WAY IS NOT IMMEDIATELY ADJACENT TO THE CORRIDOR BETWEEN STA 11+53 'EB' AND STA 17+75 'EB'
*** RIGHT OF WAY IS LOCATED ON THE SOUTH SIDE OF INDUSTRY COURT BETWEEN STA 11+01 'EB' AND STA 24+24 'EB'

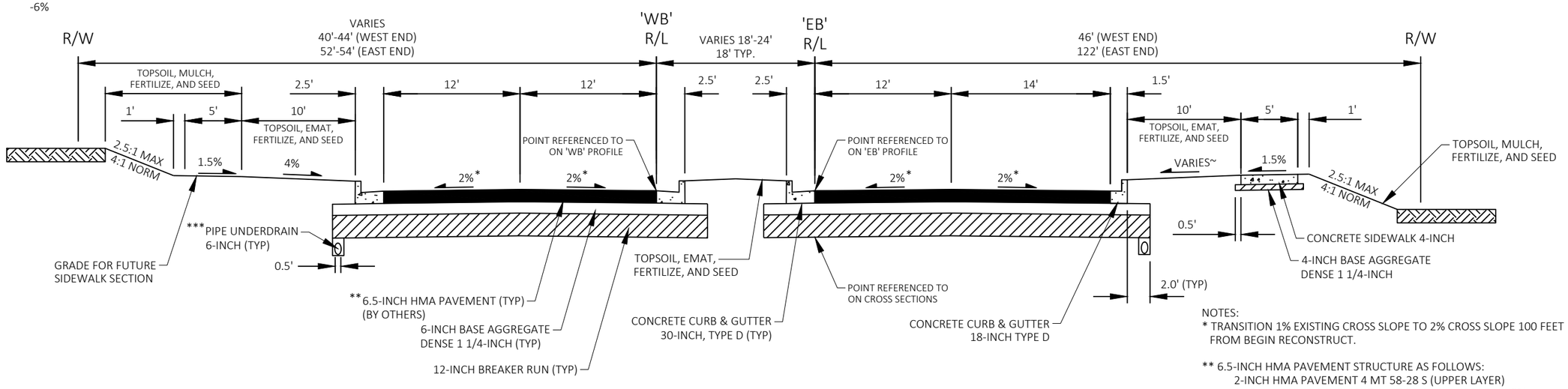
PROJECT NO: 9266-11-03	HWY: CTH HH	COUNTY: BROWN	TYPICAL SECTIONS	SHEET 4 E



PROPOSED TYPICAL SECTION
STA 3+49 'EB' TO 6+21 'EB'

TERRACE TRANSITIONS

~STA	STA	SLOPE
BEGINNING	8+70'EB'	+4%
9+00'EB'		0%
9+50'EB'	9+70'EB'	-8%
10+00'EB'	12+75'EB'	-4%
13+00'EB'		-8%
13+25'EB'	17+85'EB'	-4%
17+95'EB'		0%
18+15'EB'	22+05'EB'	+4%
22+20'EB'		0%
22+55'EB'		-6%

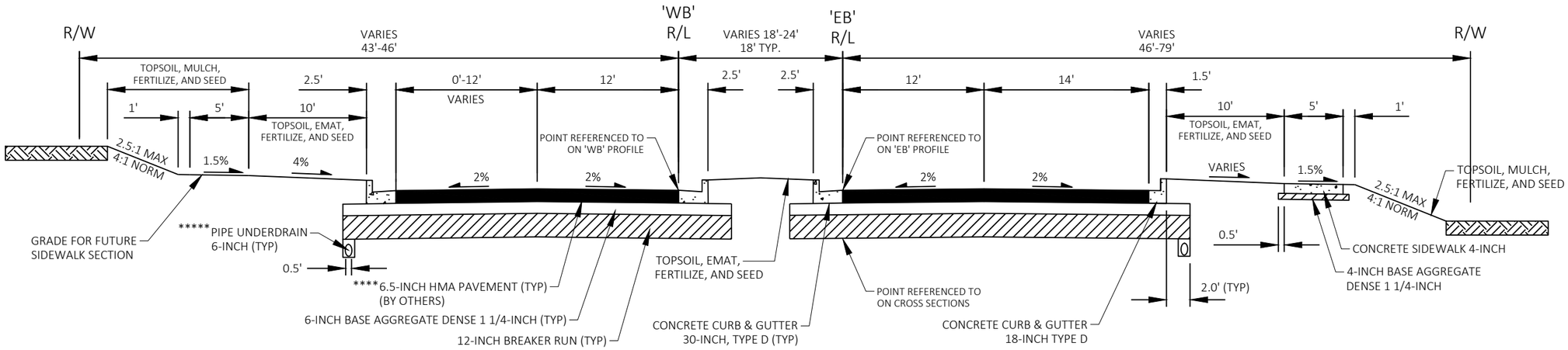


PROPOSED TYPICAL SECTION
STA 6+21 'EB' TO 8+89 'EB'
STA 20+06 'EB' TO 24+24 'EB'

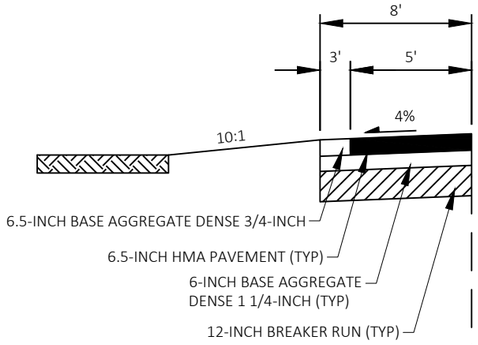
NOTES:
* TRANSITION 1% EXISTING CROSS SLOPE TO 2% CROSS SLOPE 100 FEET FROM BEGIN RECONSTRUCT.

** 6.5-INCH HMA PAVEMENT STRUCTURE AS FOLLOWS:
2-INCH HMA PAVEMENT 4 MT 58-28 S (UPPER LAYER)
2.25-INCH HMA PAVEMENT 3 MT 58-28 S (MIDDLE LAYER)
2.25-INCH HMA PAVEMENT 3 MT 58-28 S (LOWER LAYER)

*** INSTALL AND CONNECT TO EAST SIDE OF INLETS PRIOR TO PLACING BREAKER RUN. CONNECTION SHALL BE INCIDENTAL TO INLET CONSTRUCTION.



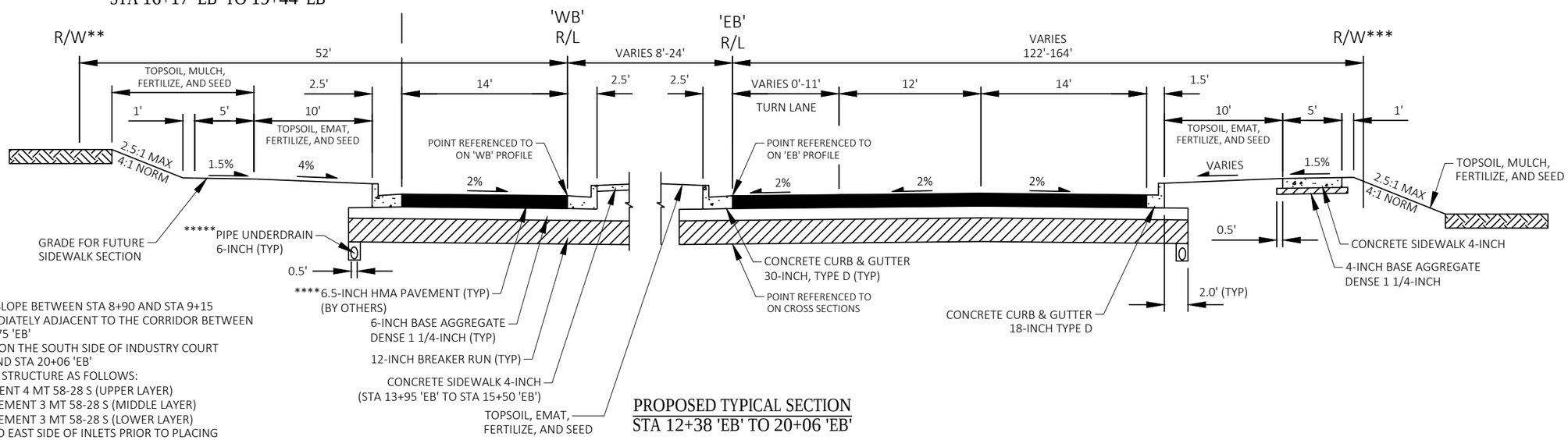
PROPOSED TYPICAL SECTION
STA 8+89 'EB' TO 12+38 'EB'



HMA SHOULDER
STA 16+17' EB' TO 19+44 'EB'

TERRACE TRANSITIONS

~STA	STA	SLOPE
BEGINNING	8+70'EB'	+4%
9+00'EB'		0%
9+50'EB'	9+75'EB'	-8%
10+00'EB'	12+75'EB'	-4%
13+00'EB'		-8%
13+25'EB'	17+75'EB'	-4%
18+00'EB'		0%
18+25'EB'	22+05'EB'	+4%
22+20'EB'		0%
22+55'EB'		-6%



PROPOSED TYPICAL SECTION
STA 12+38 'EB' TO 20+06 'EB'

NOTES:
* TRANSITION TERRACE CROSS SLOPE BETWEEN STA 8+90 AND STA 9+15
** RIGHT OF WAY IS NOT IMMEDIATELY ADJACENT TO THE CORRIDOR BETWEEN STA 12+38 'EB' AND STA 17+75 'EB'
*** RIGHT OF WAY IS LOCATED ON THE SOUTH SIDE OF INDUSTRY COURT BETWEEN STA 12+38 'EB' AND STA 20+06 'EB'
**** 6.5-INCH HMA PAVEMENT STRUCTURE AS FOLLOWS:
2-INCH HMA PAVEMENT 4 MT 58-28 S (UPPER LAYER)
2.25-INCH HMA PAVEMENT 3 MT 58-28 S (MIDDLE LAYER)
2.25-INCH HMA PAVEMENT 3 MT 58-28 S (LOWER LAYER)
*****INSTALL AND CONNECT TO EAST SIDE OF INLETS PRIOR TO PLACING BREAKER RUN. CONNECTION SHALL BE INCIDENTAL TO INLET CONSTRUCTION.

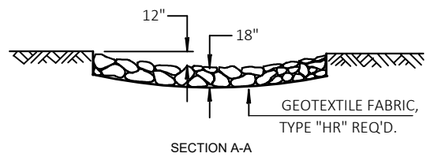
PROJECT NO: 9266-11-03	HWY: CTH HH	COUNTY: BROWN	TYPICAL SECTIONS	SHEET 6 E

2

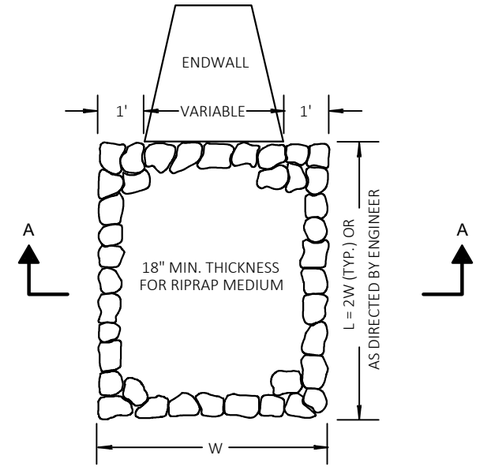
RUNOFF COEFFICIENT TABLE

	HYDROLOGIC SOIL GROUP											
	A			B			C			D		
	SLOPE RANGE (PERCENT)			SLOPE RANGE (PERCENT)			SLOPE RANGE (PERCENT)			SLOPE RANGE (PERCENT)		
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	.70 - .95											
CONCRETE	.80 - .95											
BRICK	.70 - .80											
DRIVES, WALKS	.75 - .85											
ROOFS	.75 - .95											
GRAVEL ROADS, SHOULDERS	.40 - .60											

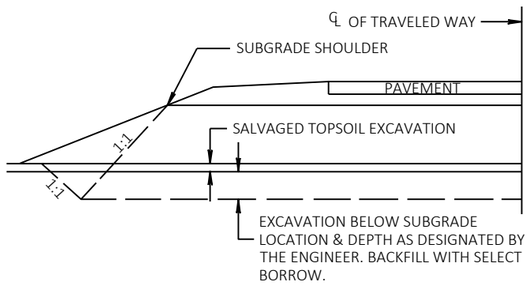
TOTAL PROJECT AREA = 5.36 ACRES
TOTAL AREA EXPECTED TO BE DISTURBED BY CONSTRUCTION ACTIVITIES = 5.36 ACRES



SECTION A-A



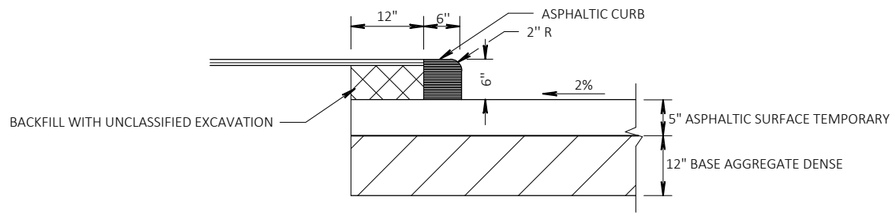
RIPRAP MEDIUM TREATMENT AT CULVERTS



NOTE:

QUANTITY IN MQ SHEETS 20% FOR ALL CUT AREAS.

DETAIL FOR EXCAVATION BELOW SUBGRADE



ASPHALTIC CURB DETAIL

PROJECT NO: 9266-11-03	HWY: CTH HH	COUNTY: BROWN	CONSTRUCTION DETAILS	SHEET 7	E

2

N

LEGEND

CG30 CONCRETE CURB & GUTTER 30-INCH TYPE A

CS CONCRETE SIDEWALK 4-INCH OVER 4-INCH BASE AGGREGATE DENSE 1 ¼-INCH

CMS CONCRETE MEDIAN SLOPED NOSE TYPE 1

STH 172 OFF RAMP 'A' R/L

332+54.28'A', 20.49' LT
594.19

CMS

332+53.82'A', 15.00' LT
594.16

1.65%

1.50%

332+46.00'A', 15.00' LT
594.14, LOW POINT

2.00%

STH 172 OFF RAMP

CG30

1.97%

1.55%

CS

1.97%

332+20.04'A', 23.31' LT
RADIUS

332+20.06'A', 23.81' LT
PC RAD

11+87.40'WB', 20.18' LT
594.45, PC

332+19.68'A', 23.65' LT
MID PT RAD

0.5' R

11+90.09'WB', 18.50' LT
PT RAD

11+90.09'WB', 16.00' LT
594.50, PT

11+94.21'WB', 16.00' LT
594.54, HIGH POINT

CTH HH

332+22.48'A', 19.50' LT
RADIUS

332+22.48'A', 17.50' LT
PT RAD

11+98.26'WB', 18.33' LT
594.49, PT

1.20%

2' R

332+21.23'A', 17.93' LT
MID PT RAD

11+94.25'WB', 18.50' LT
PC RAD

11+95.40'WB', 16.00' LT
594.53, PC

CTH HH 'WB' R/L

12'WB'

332'A'

STH 172 OFF RAMP ISLAND

CTH HH 'EB' R/L

24'EB'

2.00%

2.00%

CTH HH

ASHLAND AVE.

24+21.93'EB', 28.73' RT
607.21, PT

24+19.45'EB', 28.11' RT
PT RAD

24+19.05'EB', 26.98' RT
MID PT RAD

24+17.96'EB', 26.50' RT
PC RAD

24+17.96'EB', 24.00' RT
607.17, PC

24+17.96'EB', 28.00' RT
RADIUS

1.5' R

24+21.63'EB', 33.14' RT
607.21, HIGH POINT

24+21.52'EB', 34.80' RT
607.21, PC

24+19.03'EB', 34.64' RT
PC RAD

1.5' R

24+18.43'EB', 35.75' RT
MID PT RAD

24+16.64'EB', 38.44' RT
607.14, PT

24+17.19'EB', 36.01' RT
PT RAD

2.81%

24+17.53'EB', 34.53' RT
RADIUS

CS

CG30

REVERSE SLOPE CURB & GUTTER

3.61%

23+84.59'EB', 31.10' RT
606.82, LOW POINT

3.26%

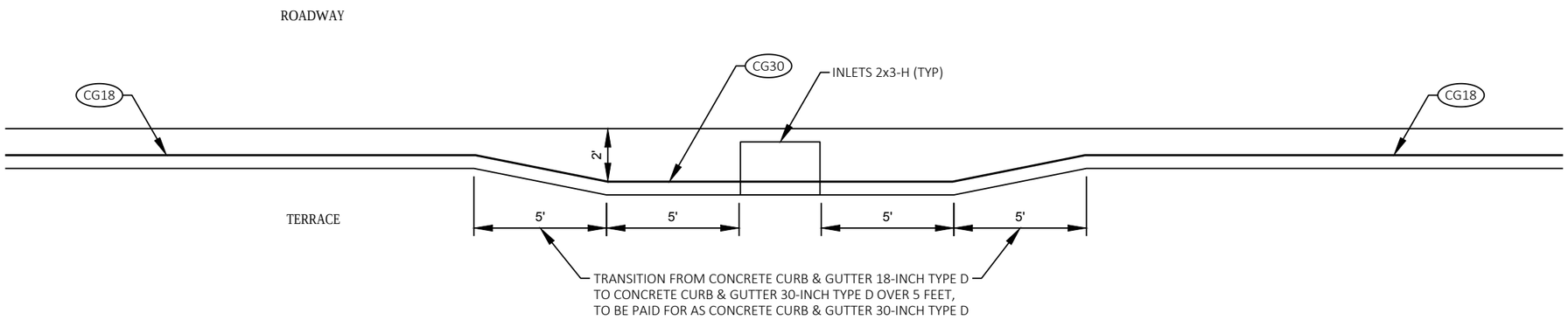
23+85.40'EB', 24.00' RT
606.84

CMS

CTH HH EASTBOUND TURN LANE ISLAND

PROJECT NO: 9266-11-03	HWY: CTH HH	COUNTY: BROWN	CONSTRUCTION DETAILS	SHEET 8	E

2



CURB BUMP-OUT AT INLET

SEE PLAN DETAILS FOR LOCATIONS

LEGEND

CG18 CONCRETE CURB & GUTTER 18-INCH TYPE D

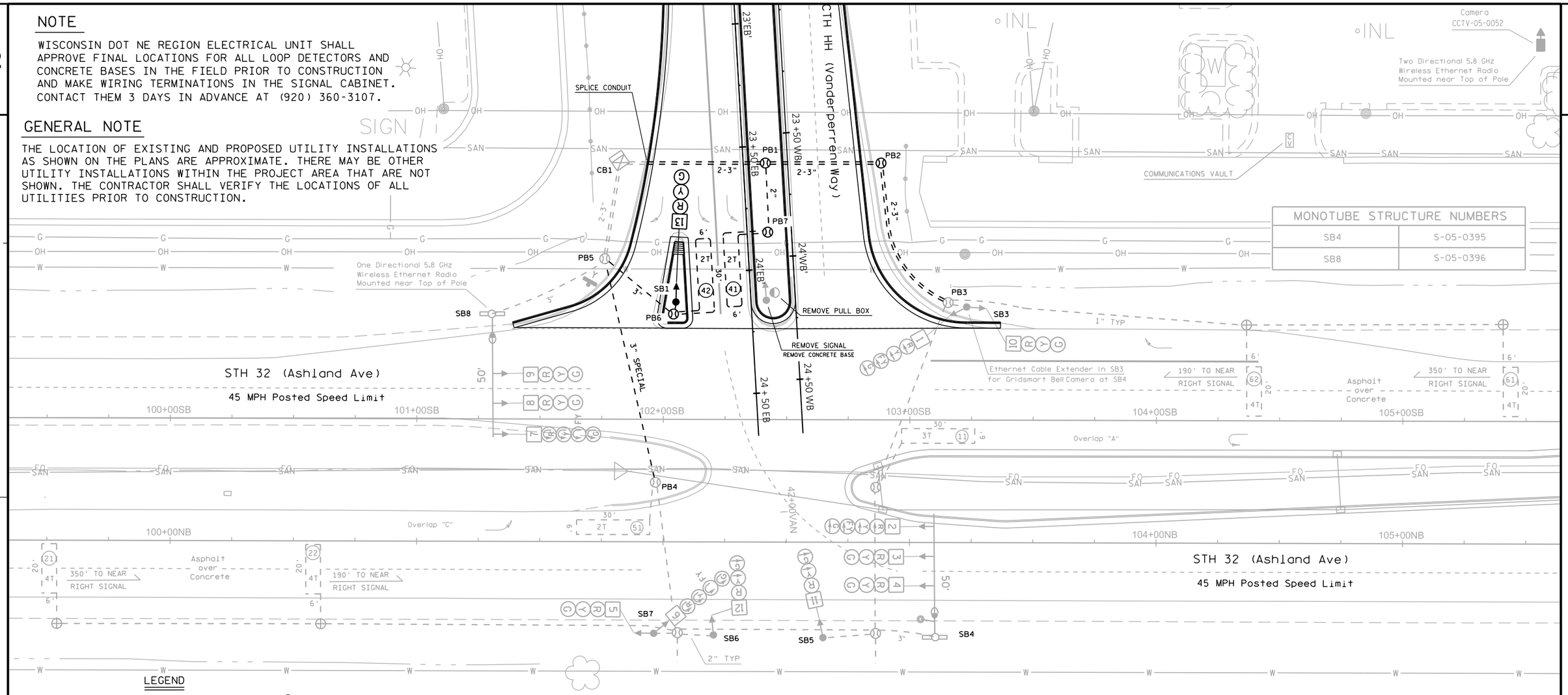
CG30 CONCRETE CURB & GUTTER 30-INCH TYPE D

NOTE

WISCONSIN DOT NE REGION ELECTRICAL UNIT SHALL APPROVE FINAL LOCATIONS FOR ALL LOOP DETECTORS AND CONCRETE BASES IN THE FIELD PRIOR TO CONSTRUCTION AND MAKE WIRING TERMINATIONS IN THE SIGNAL CABINET. CONTACT THEM 3 DAYS IN ADVANCE AT (920) 360-3107.

GENERAL NOTE

THE LOCATION OF EXISTING AND PROPOSED UTILITY INSTALLATIONS AS SHOWN ON THE PLANS ARE APPROXIMATE. THERE MAY BE OTHER UTILITY INSTALLATIONS WITHIN THE PROJECT AREA THAT ARE NOT SHOWN. THE CONTRACTOR SHALL VERIFY THE LOCATIONS OF ALL UTILITIES PRIOR TO CONSTRUCTION.



MONOTUBE STRUCTURE NUMBERS	
SB4	S-05-0395
SB8	S-05-0396

LEGEND

- PULL BOX 12" X 24"
- PULL BOX 24" X 42" (Plastic)
- SIGNAL STANDARD, PEDESTAL BASE
- SIGNAL POLE, MAST-ARM, TRANSFORMER MOUNT — 15'
- SIGNAL POLE, MONOTUBE ARM — 40'
- LUMINAIRE
- CONTROL CABINET BASE
- CONDUIT
- GRIDSMART BELL CAMERA
- SIGNAL HEAD NUMBER MOUNTING CONFIGURATION
- LOOP DETECTOR (in 1" conduit) — 6' x 30'

NOTE: SIGNAL HEADS 1 & 6 REQUIRE TUNNEL VISORS

CONFIGURATION WITH HEAD NUMBERS			
3-V: 3, 4, 5 / 8, 9, 10 / 13	3-VL2: 11, 12	4-VLFY: 1, 2	4-UFY: 6, 7

REVISION				
Rev. No.	Reconstruct West Approach			
	APPROVAL RECOMMENDED		APPROVED	
	REGION		CENTRAL OFFICE	
4	Date	By	Date	By
	7-15-19	RPA		JRI
8-15-17	New TS2 Cabinet, Add Phase 1 Monotubes & FYA			
12-1-11	New Cabinet & Controller; Change to All Red Emergency Flash			
9-20-96	Add Phase 5			

TRAFFIC CONTROL SIGNAL

STH 32 (Ashland Ave) & Vanderperren Way
VILLAGE OF ASHWAUBENON
BROWN COUNTY

SIGNAL NO. 05-0558 CONTROLLER TYPE: Econolite

WISCONSIN DEPARTMENT OF TRANSPORTATION

APPROVAL RECOMMENDED
Date 7-19-1994 — Gerald R. Kurtz, REGION TRAFFIC ENGINEER

APPROVED
Date 7-26-1994 — R. I. Moe, STATE TRAFFIC ENGINEER

REGION CONTACT: RPA
DESIGNED BY: RPA
REVISED BY: RPA

PAGE 1 OF 1

PROJECT NO: 9266-11-03	HWY: STH 32	COUNTY: BROWN	CONSTRUCTION DETAIL - TRAFFIC SIGNAL REVISION	SHEET 10 E

FILE NAME : F:\d3_traffi\S-558,rev4,const.dgn PLOT DATE : 17-JUL-2019 08:47 PLOT BY : dotc5s PLOT NAME : S-558,rev4,const PLOT SCALE : 40:1

WISDOT/CADDS SHEET 42

2

DETENTION POND

HOLMGREN WAY

REMOVE TURTLE FENCE
(PAID FOR AS TURTLE FENCE SALVAGED)

REMOVE

WRONG WAY
REMOVE

NO PARKING
2am to 6am
NOVEMBER 1
TO MARCH 31
ON ALL
VILLAGE STREETS
REMOVE

SI

TLE

EXISTING R/W

ABANDON 15" SEWER BETWEEN
EXISTING MANHOLE AND INLET

CTH HH 'WB' R/L

MATCHLINE STA 9+00'EB'

3'WB'

4'WB'

4'EB'

5'WB'

5'EB'

6'WB'

6'EB'

7'WB'

7'EB'

8'WB'

8'EB'

CTH HH

TLE

CTH HH 'EB' R/L

EXISTING R/W

SI

BEGIN CONSTRUCTION
STA 3+50.63 'EB'

BEGIN PROJECT
STA 6+20.73 'EB'

JCT
172
REMOVE

TLE

LEGEND

- CLEARING AND GRUBBING
- REMOVING TREES (PAID AS CLEARING AND GRUBBING)
- REMOVING SMALL PIPE CULVERTS (INCLUDES ENDWALL)
- REMOVING PAVEMENT
- REMOVING CURB & GUTTER (PAID FOR AS REMOVING PAVEMENT)
- REMOVING CONCRETE SIDEWALK
- REMOVING MANHOLE
- REMOVING GUARDRAIL
- REMOVING FENCE
- REMOVING INLETS
- REMOVING STORM SEWER (INCLUDES ENDWALLS)
- SAWING CONCRETE
- REMOVING SIGNS
- REMOVING ASPHALT (PAID FOR AS COMMON EXCAVATION)

PROJECT NO: 9266-11-03	HWY: CTH HH	COUNTY: BROWN	REMOVALS	SHEET 11	E

FILE NAME : \\USGRB1FP001\ATG\60543140\900_CAD_GIS\910_CAD\92661102\SHEETSPLAN\021101_RM.DWG
LAYOUT NAME - 0
PLOT DATE : 10/1/2019 1:41 PM
PLOT BY : ERICSON, SARAH
PLOT NAME :
PLOT SCALE : ##########
WISDOT/CADDS SHEET 44

2

DUTCHMAN CREEK

STH 172 OFF RAMP 'A' R/L

B-05-152
(NO WORK)

ABANDON 12" SEWER
BETWEEN EXISTING INLETS

INLET, STORM SEWER,
AND ENDWALL TO REMAIN

STH 172 OFF RAMP

333'A'

END CONSTRUCTION
STA 322+70.38 'A'

N

REMOVE TURTLE FENCE
(PAID FOR AS TURTLE
FENCE SALVAGED)

PLE

PLE

REMOVE TURTLE FENCE
(PAID FOR AS TURTLE FENCE SALVAGED)

TLE

EXISTING R/W

SI

CTH HH 'WB' R/L

SPEED LIMIT 35
REMOVE

STOP
REMOVE

DO NOT ENTER
REMOVE

ONE WAY
REMOVE

STOP
REMOVE

DO NOT ENTER
REMOVE

DO NOT ENTER
REMOVE

REMOVE

EAST 172
REMOVE

SI

NO PARKING THIS SIDE OF STREET
REMOVE

11'WB'

12'WB'

10'WB'

9'WB'

332'A'

13'WB'

14'WB'

11'EB'

12'EB'

13'EB'

14'EB'

10'EB'

CTH HH

WRONG WAY
REMOVE

MATCHLINE STA 9+00'EB'

MATCHLINE STA 14+50'EB'

CTH HH 'EB' R/L

WRONG WAY
REMOVE

DO NOT ENTER
REMOVE

ONE WAY
REMOVE

NO PARKING
2:00 AM to 6:00 AM
NOVEMBER 1
TO MARCH 31
REMOVE

REMOVE

NO PARKING THIS SIDE OF STREET
REMOVE

EXISTING R/W

SI

PROPOSED R/W

TLE

INDUSTRY COURT

EXISTING PIPE UNDER PARKING LOT TO REMAIN;
CONTRACTOR TO PROTECT PIPE DURING CONSTRUCTION

EXISTING R/W

LEGEND

- CLEARING AND GRUBBING
- REMOVING TREES (PAID AS CLEARING AND GRUBBING)
- REMOVING SMALL PIPE CULVERTS (INCLUDES ENDWALL)
- REMOVING PAVEMENT
- REMOVING CURB & GUTTER (PAID FOR AS REMOVING PAVEMENT)
- REMOVING CONCRETE SIDEWALK
- REMOVING MANHOLE
- REMOVING GUARDRAIL
- REMOVING FENCE
- REMOVING INLETS
- REMOVING STORM SEWER (INCLUDES ENDWALLS)
- XXXX SAWING CONCRETE
- REMOVING SIGNS
- REMOVING ASPHALT (PAID FOR AS COMMON EXCAVATION)

PROJECT NO: 9266-11-03	HWY: CTH HH	COUNTY: BROWN	REMOVALS	SHEET 12	E

FILE NAME : \\USGRB1FP001\ATG\60543140\900_CAD_GIS\910_CAD\92661102\SHEETSPLAN\021101_RM.DWG
LAYOUT NAME - 1
PLOT DATE : 10/1/2019 1:41 PM
PLOT BY : ERICSON, SARAH
PLOT NAME :
PLOT SCALE : ##########
WISDOT/CADDS SHEET 44

2

2

EXISTING R/W

N

STH 172 ON RAMP 'B' R/L

STH 172 ON RAMP

STH 172 ON RAMP 'C' R/L

END CONSTRUCTION
STA 325+69.15 'C'

END CONSTRUCTION
STA 326+21.23 'B'

327'B'

327'C'

326'C'

325'C'

324'C'

SI

PEDESTRIANS BICYCLES NON MOTORIZED TRAFFIC MOTOR BICYCLES PROHIBITED
REMOVE

RAMP 30 MPH
REMOVE

DO NOT ENTER
REMOVE

EAST TO 172 57
REMOVE REMOVE

CTH HH 'WB' R/L

326'B'

16'WB'

17'WB'

18'WB'

19'WB'

20'WB'

15'WB'

16'EB'

17'EB'

18'EB'

19'EB'

15'EB'

CTH HH

JCT 32
REMOVE

CTH HH 'EB' R/L

REMOVE

TO INTERSTATE 43
REMOVE

REMOVE

MATCHLINE STA 14+50'EB'

MATCHLINE STA 20+00'EB'

INDUSTRY COURT

NO PARKING 2am to 6am NOVEMBER 1 TO MARCH 31 ON ALL VILLAGE STREETS
REMOVE

Green Bay
De Pere
Ashland Ave
NORTH SOUTH
REMOVE

WRONG WAY
REMOVE

EXISTING R/W

LEGEND

- CLEARING AND GRUBBING
- REMOVING TREES (PAID AS CLEARING AND GRUBBING)
- REMOVING SMALL PIPE CULVERTS (INCLUDES ENDWALL)
- REMOVING PAVEMENT
- REMOVING CURB & GUTTER (PAID FOR AS REMOVING PAVEMENT)
- REMOVING CONCRETE SIDEWALK
- REMOVING MANHOLE
- REMOVING GUARDRAIL
- REMOVING FENCE
- REMOVING INLETS
- REMOVING STORM SEWER (INCLUDES ENDWALLS)
- SAWING CONCRETE
- REMOVING SIGNS
- REMOVING ASPHALT (PAID FOR AS COMMON EXCAVATION)

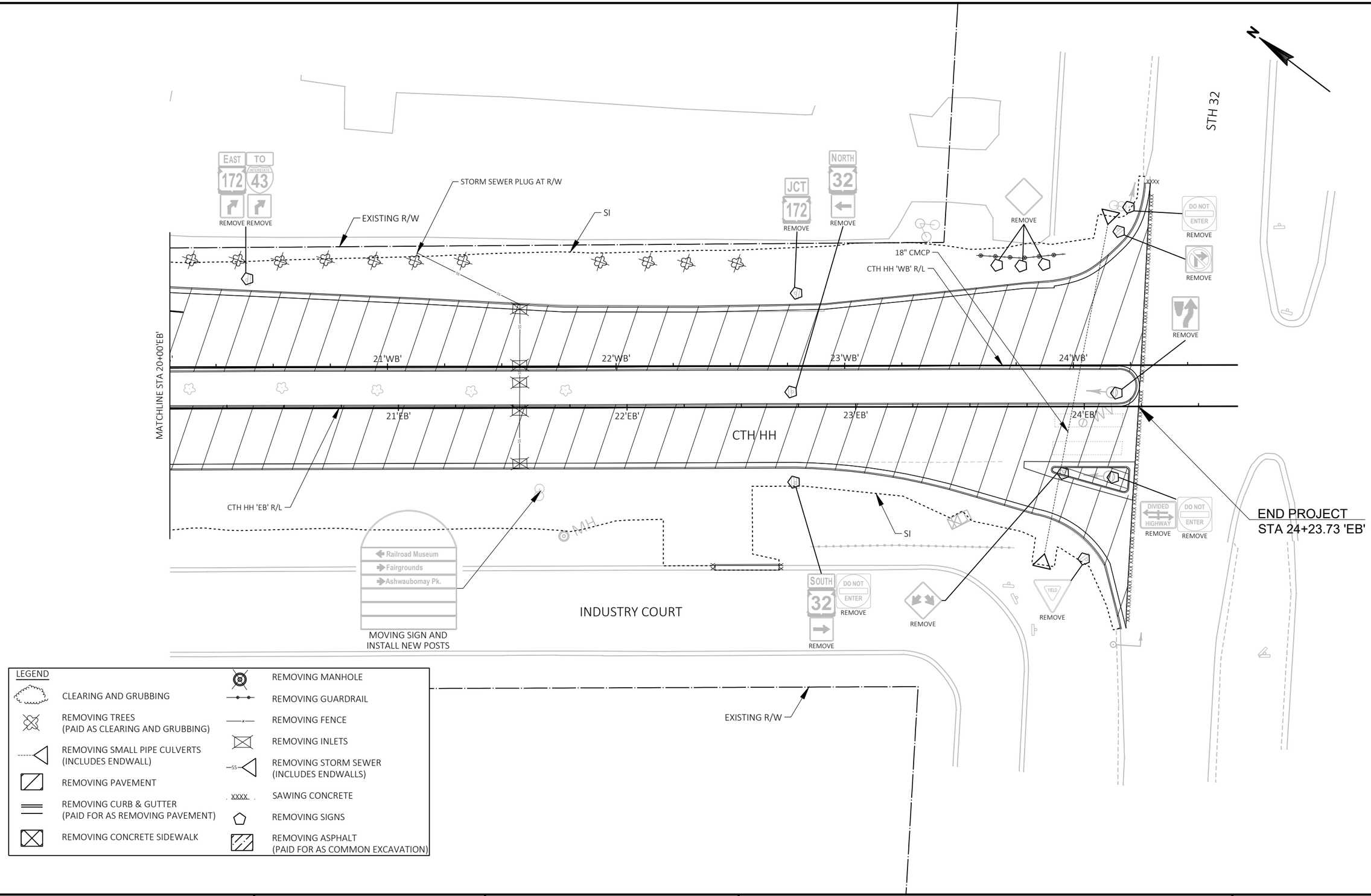
PROJECT NO: 9266-11-03	HWY: CTH HH	COUNTY: BROWN	REMOVALS	SHEET 13	E

FILE NAME : \\USGRB1FP001\ATG\60543140\900_CAD_GIS\910_CAD\92661102\SHEETSPLAN\021101_RM.DWG
LAYOUT NAME - 2

PLOT DATE : 10/1/2019 1:41 PM PLOT BY : ERICSON, SARAH PLOT NAME : PLOT SCALE : ##########

WISDOT/CADDS SHEET 42

2



PROJECT NO: 9266-11-03	HWY: CTH HH	COUNTY: BROWN	REMOVALS	SHEET 14	E

2

LEGEND

- HMA — 6.5-INCH HMA PAVEMENT (BY OTHERS)
- CG18 — CONCRETE CURB & GUTTER 18-INCH TYPE D
- CG30 — CONCRETE CURB & GUTTER 30-INCH TYPE D
- CS — CONCRETE SIDEWALK 4-INCH OVER 4-INCH BASE AGGREGATE DENSE 1 ¼-INCH
- CR3M — CURB RAMP TYPE 3 MODIFIED
- CRW — CURB RAMP DETECTABLE WARNING FIELD YELLOW
- CMB — CONCRETE MEDIAN BLUNT NOSE
- CMS — CONCRETE MEDIAN SLOPED NOSE

HOLMGREN WAY

MH

3'WB'

4'WB'

5'WB'

6'WB'

7'WB'

8'WB'

4'EB'

5'EB'

6'EB'

7'EB'

8'EB'

CTH HH

CTH HH 'WB' R/L

CTH HH 'EB' R/L

6+07.59'WB', 24.00' LT
590.51

6+07.59'WB', 0.00'
590.51

6+20.73'EB', 0.00'
590.42

6+20.73'EB', 25.24' RT
590.39

8+71.14'WB', 24.03' LT

7+97.19'WB', 24.05' LT

MATCHLINE STA 9+00'EB'

TRANSITION CURB PAN FROM 12-INCH TO 24-INCH OVER 50 FEET.

CG30

CG18

CS

HMA

24'

26'

10'

5'

4%

+48.33'EB'

+53.15'EB'

+70.64'EB'

+65.80'EB'

3+54.41'EB', 31.75' RT
RADIUS

3+63.65'EB', 43.18' RT
590.55, PCC

3+70.56'EB', 38.97' RT
590.49, MID PT

15' R

25' R

3+78.44'EB', 37.50' RT
590.43, PT

3+78.44'EB', 62.50' RT
RADIUS

3+57.49'EB', 46.40' RT
590.61, MID PT

3+50.63'EB', 46.21' RT
590.66, PC

SLOPE INTERCEPT (TYP)

BEGIN CONSTRUCTION
STA 3+50.63'EB'

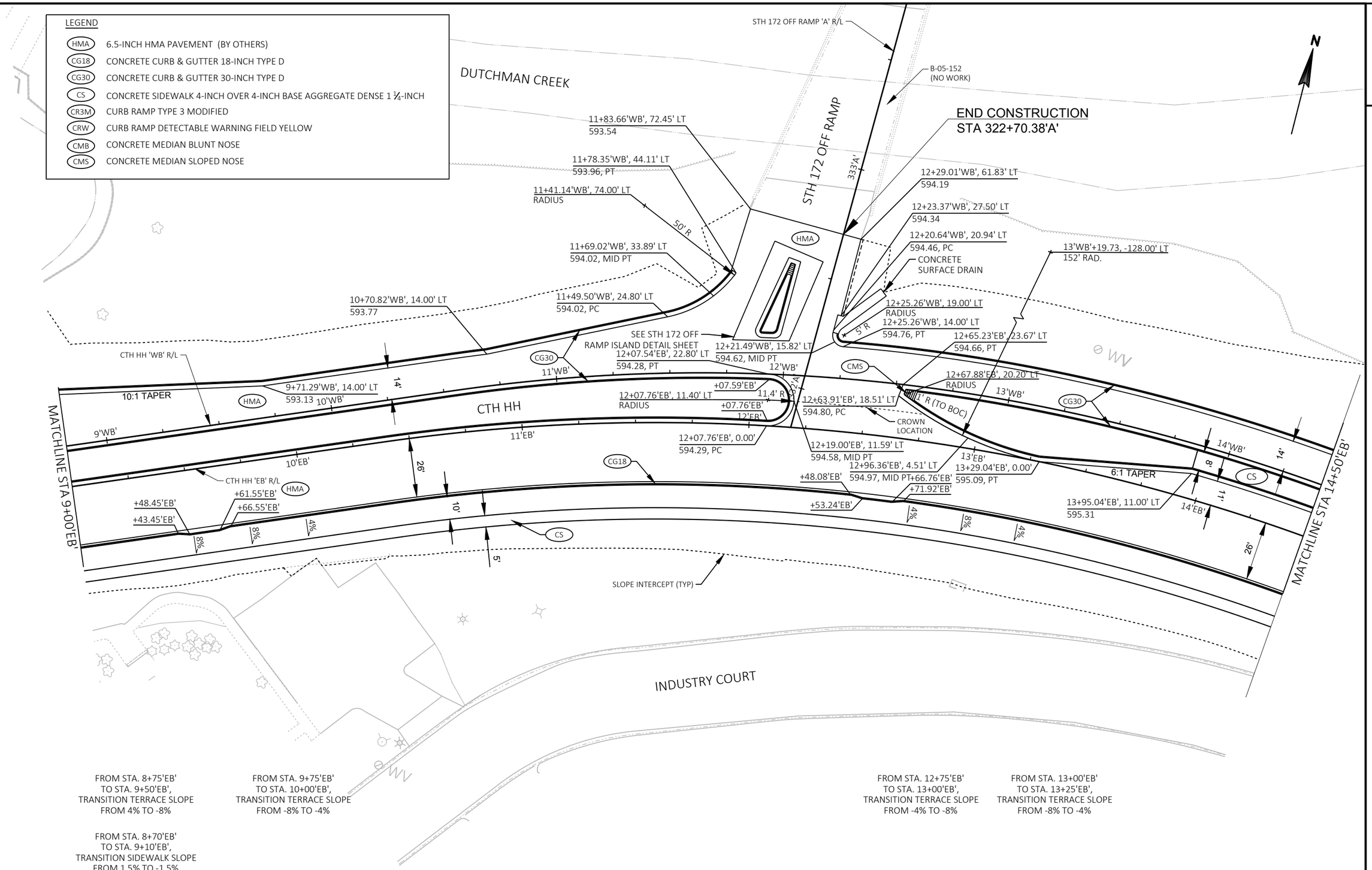
BEGIN PROJECT
STA 6+20.73'EB'

PROJECT NO: 9266-11-03	HWY: CTH HH	COUNTY: BROWN	PLAN DETAILS	SHEET 15	E

2

LEGEND

- HMA — 6.5-INCH HMA PAVEMENT (BY OTHERS)
- CG18 — CONCRETE CURB & GUTTER 18-INCH TYPE D
- CG30 — CONCRETE CURB & GUTTER 30-INCH TYPE D
- CS — CONCRETE SIDEWALK 4-INCH OVER 4-INCH BASE AGGREGATE DENSE 1 ¼-INCH
- CR3M — CURB RAMP TYPE 3 MODIFIED
- CRW — CURB RAMP DETECTABLE WARNING FIELD YELLOW
- CMB — CONCRETE MEDIAN BLUNT NOSE
- CMS — CONCRETE MEDIAN SLOPED NOSE



FROM STA. 8+75'EB'
TO STA. 9+50'EB',
TRANSITION TERRACE SLOPE
FROM 4% TO -8%

FROM STA. 8+70'EB'
TO STA. 9+10'EB',
TRANSITION SIDEWALK SLOPE
FROM 1.5% TO -1.5%

FROM STA. 9+75'EB'
TO STA. 10+00'EB',
TRANSITION TERRACE SLOPE
FROM -8% TO -4%

FROM STA. 12+75'EB'
TO STA. 13+00'EB',
TRANSITION TERRACE SLOPE
FROM -4% TO -8%

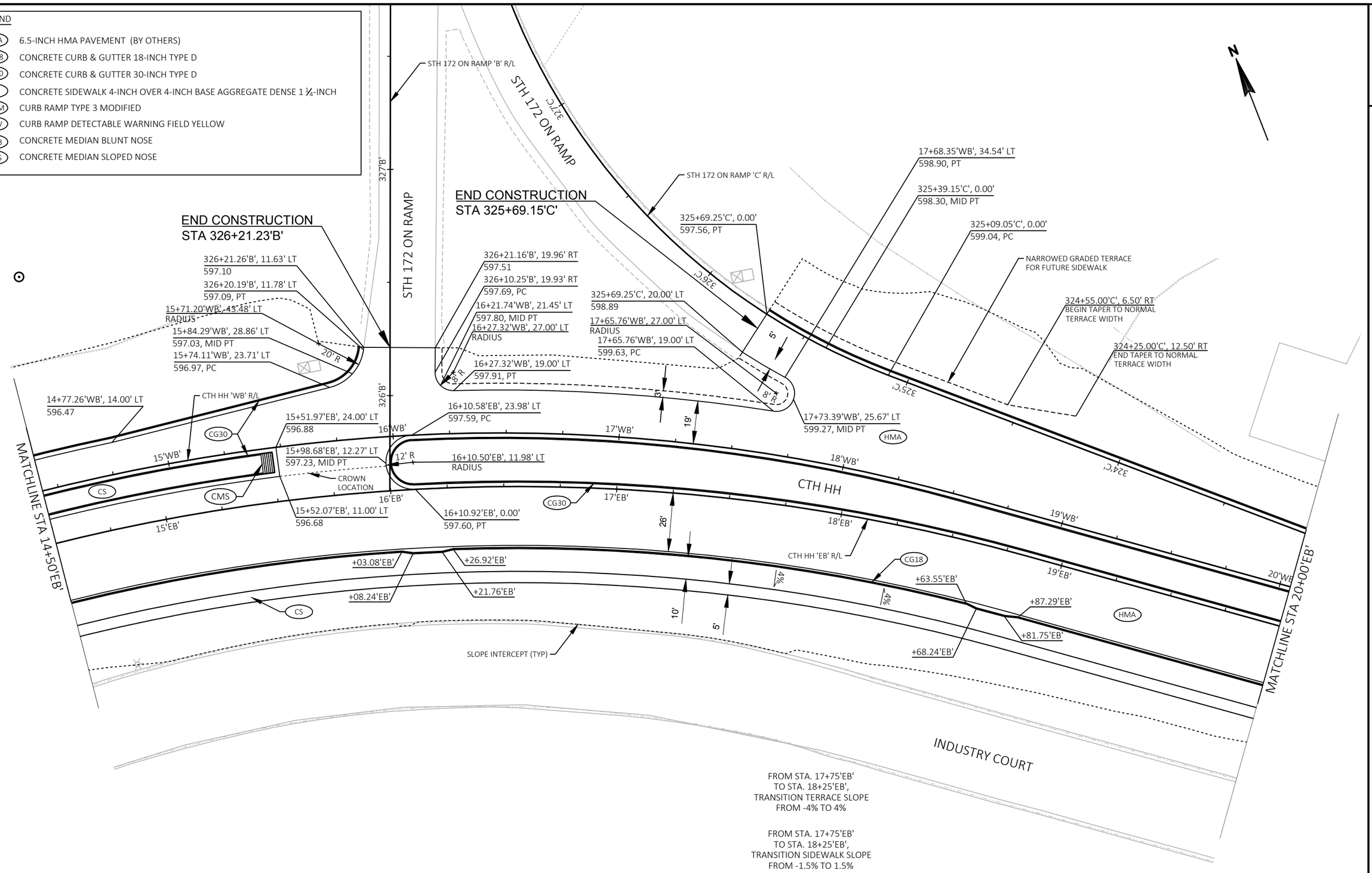
FROM STA. 13+00'EB'
TO STA. 13+25'EB',
TRANSITION TERRACE SLOPE
FROM -8% TO -4%

PROJECT NO: 9266-11-03	HWY: CTH HH	COUNTY: BROWN	PLAN DETAILS	SHEET 16	E

2

LEGEND

- HMA — 6.5-INCH HMA PAVEMENT (BY OTHERS)
- CG18 — CONCRETE CURB & GUTTER 18-INCH TYPE D
- CG30 — CONCRETE CURB & GUTTER 30-INCH TYPE D
- CS — CONCRETE SIDEWALK 4-INCH OVER 4-INCH BASE AGGREGATE DENSE 1 ¼-INCH
- CR3M — CURB RAMP TYPE 3 MODIFIED
- CRW — CURB RAMP DETECTABLE WARNING FIELD YELLOW
- CMB — CONCRETE MEDIAN BLUNT NOSE
- CMS — CONCRETE MEDIAN SLOPED NOSE



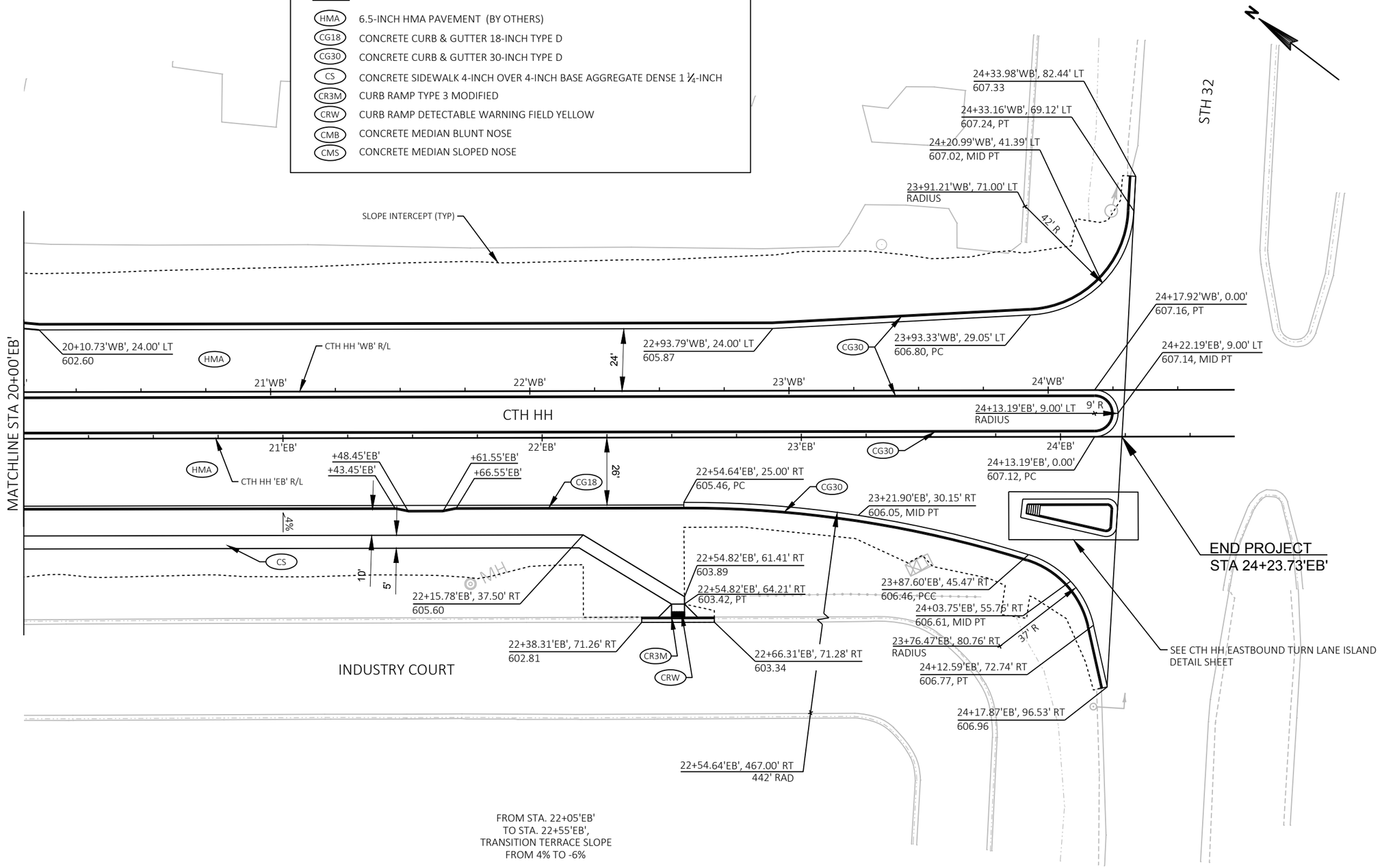
FROM STA. 17+75'EB'
TO STA. 18+25'EB',
TRANSITION TERRACE SLOPE
FROM -4% TO 4%

FROM STA. 17+75'EB'
TO STA. 18+25'EB',
TRANSITION SIDEWALK SLOPE
FROM -1.5% TO 1.5%

PROJECT NO: 9266-11-03	HWY: CTH HH	COUNTY: BROWN	PLAN DETAILS	SHEET 17	E

LEGEND

HMA	6.5-INCH HMA PAVEMENT (BY OTHERS)
CG18	CONCRETE CURB & GUTTER 18-INCH TYPE D
CG30	CONCRETE CURB & GUTTER 30-INCH TYPE D
CS	CONCRETE SIDEWALK 4-INCH OVER 4-INCH BASE AGGREGATE DENSE 1 ¼-INCH
CR3M	CURB RAMP TYPE 3 MODIFIED
CRW	CURB RAMP DETECTABLE WARNING FIELD YELLOW
CMB	CONCRETE MEDIAN BLUNT NOSE
CMS	CONCRETE MEDIAN SLOPED NOSE

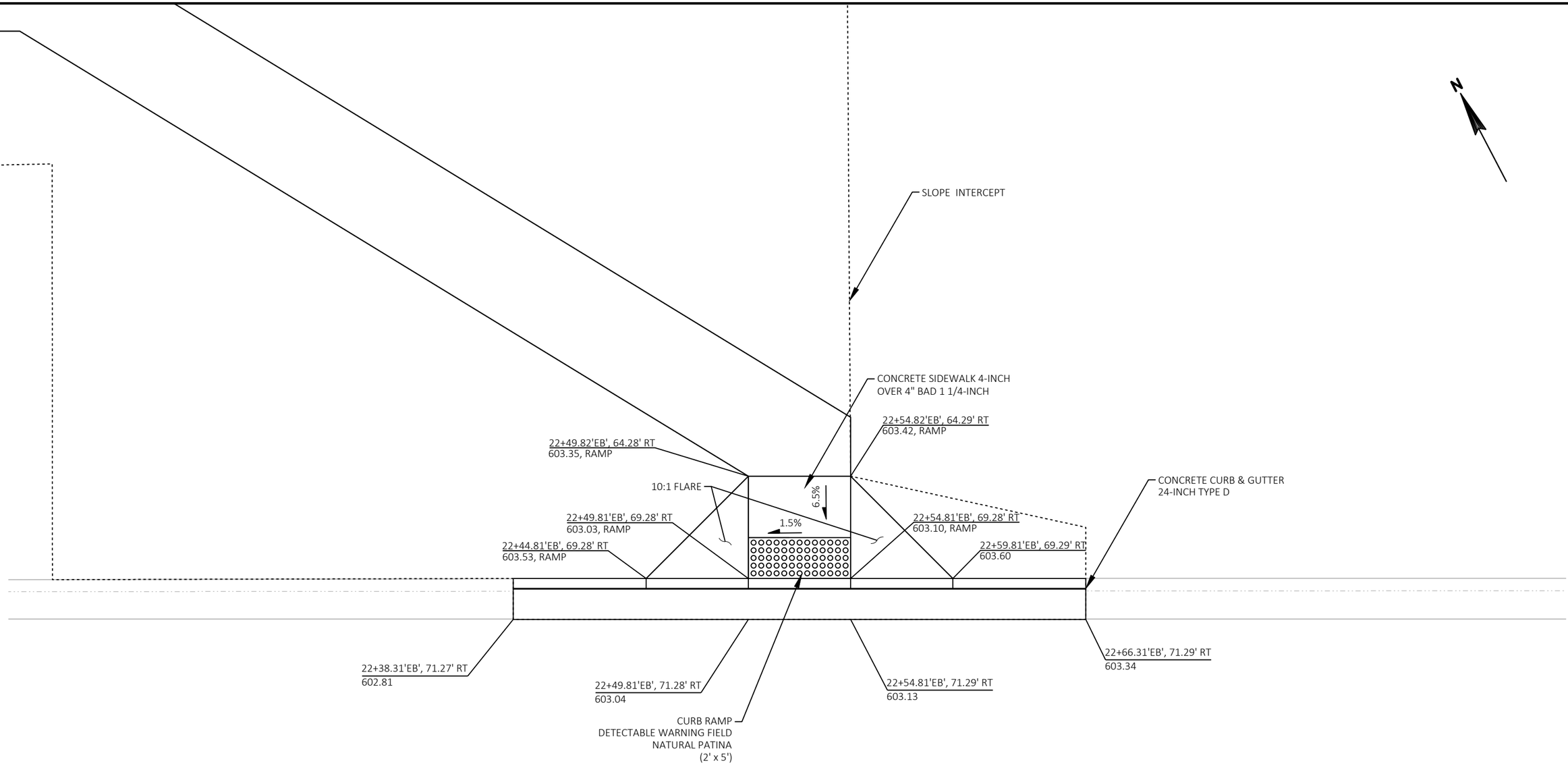


FROM STA. 22+05'EB'
TO STA. 22+55'EB',
TRANSITION TERRACE SLOPE
FROM 4% TO -6%

FROM STA. 22+00'EB'
TO STA. 22+25'EB',
TRANSITION SIDEWALK SLOPE
FROM 1.5% TO -1.5%

PROJECT NO: 9266-11-03	HWY: CTH HH	COUNTY: BROWN	PLAN DETAILS	SHEET 18	E

2



INDUSTRY COURT

CURB RAMP TYPE 3 MODIFIED DETAIL

2

2

DETENTION POND

HOLMGREN WAY

CTH HH

CTH HH 'WB' R/L

CTH HH 'EB' R/L

RESTORE TURTLE FENCE ONCE
SILT FENCE IS REMOVED

TIE SILT FENCE INTO EXISTING TURTLE FENCE

SI

BORE

MATCHLINE STA 9+00'EB'

3'WB'

4'WB'

4'EB'

5'WB'

5'EB'

6'WB'

6'EB'

7'WB'

7'EB'

8'WB'

8'EB'

BEGIN CONSTRUCTION
STA 3+50.63 'EB'

SI

BEGIN PROJECT
STA 6+20.73 'EB'

LEGEND

- SLOPE INTERCEPT
- INLET PROTECTION (TYPE B OR C, AS INDICATED)
- MEDIUM RIP RAP WITH GEOTEXTILE FABRIC TYPE HR
- SILT FENCE
- SURFACE WATER FLOW
- TOPSOIL, SEEDING MIXTURE NO. 40, FERTILIZER TYPE B, AND EROSION MAT URBAN CLASS I TYPE A
- TOPSOIL, SEEDING MIXTURE NO. 40, FERTILIZER TYPE B, AND MULCH
- TEMPORARY DITCH CHECK
- TURTLE FENCE SALVAGED

PROJECT NO: 9266-11-03	HWY: CTH HH	COUNTY: BROWN	EROSION CONTROL	SHEET 20	E

FILE NAME : \\USGRB1FP001\ATG\60543140\900_CAD_GIS\910_CAD\92661102\SHEETSPLAN\022001_EC.DWG
LAYOUT NAME - 0

PLOT DATE : 10/1/2019 1:38 PM PLOT BY : ERICSON, SARAH PLOT NAME : PLOT SCALE : ##########

2

TIE SILT FENCE INTO EXISTING TURTLE FENCE

DUTCHMAN CREEK

STH 172 OFF RAMP 'A' R/L

B-05-152
(NO WORK)

END CONSTRUCTION
STA 322+70.38 'A'

N

TIE SILT FENCE INTO EXISTING TURTLE FENCE

FLOODWAY BOUNDARY

STH 172 OFF RAMP

333'A'

RESTORE TURTLE FENCE ONCE SILT
FENCE IS REMOVED

SI

SI

CTH HH 'WB' R/L

11'WB'

12'WB'

332'A'

10'WB'

9'WB'

13'WB'

14'WB'

11'EB'

12'EB'

CTH HH 'EB' R/L

10'EB'

13'EB'

14'EB'

CTH HH

MATCHLINE STA 9+00'EB'

MATCHLINE STA 14+50'EB'

SI

FLAG

MH

INDUSTRY COURT

LEGEND

- SLOPE INTERCEPT
- INLET PROTECTION (TYPE B OR C, AS INDICATED)
- MEDIUM RIP RAP WITH GEOTEXTILE FABRIC TYPE HR
- SILT FENCE
- SURFACE WATER FLOW
- TOPSOIL, SEEDING MIXTURE NO. 40, FERTILIZER TYPE B, AND EROSION MAT URBAN CLASS I TYPE A
- TOPSOIL, SEEDING MIXTURE NO. 40, FERTILIZER TYPE B, AND MULCH
- TEMPORARY DITCH CHECK
- TURTLE FENCE SALVAGED

PROJECT NO: 9266-11-03	HWY: CTH HH	COUNTY: BROWN	EROSION CONTROL	SHEET 21	E

2

FLOODWAY BOUNDARY

STH 172 ON RAMP 'B' R/L

END CONSTRUCTION
STA 326+21.23 'B'

327'B'

STH 172 ON RAMP

326'B'

SI

CTH HH 'WB' R/L

16'WB'

15'WB'

MATCHLINE STA 14+50'EB'

15'EB'

16'EB'

CTH HH

17'WB'

17'EB'

18'WB'

18'EB'

CTH HH 'EB' R/L

STH 172 ON RAMP

327'C'

326'C'

STH 172 ON RAMP 'C' R/L

END CONSTRUCTION
STA 325+69.15 'C'

SI

325'C'

324'C'

19'WB'

19'EB'

20'WB'

20

MATCHLINE STA 20+00'EB'

GUY

BORE

INDUSTRY COURT

SI

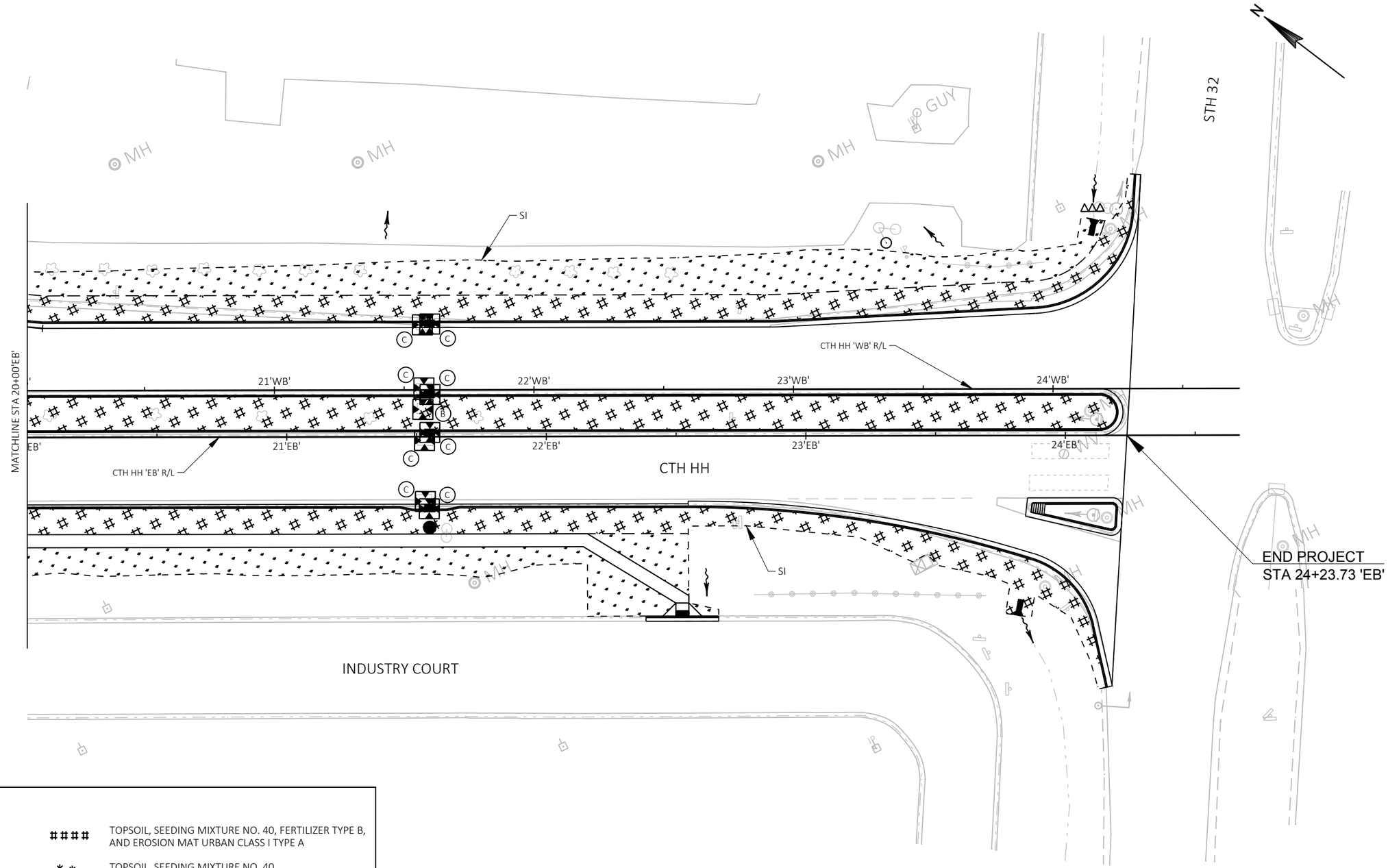
MH

LEGEND

- SLOPE INTERCEPT
- INLET PROTECTION (TYPE B OR C, AS INDICATED)
- MEDIUM RIP RAP WITH GEOTEXTILE FABRIC TYPE HR
- SILT FENCE
- SURFACE WATER FLOW
- TOPSOIL, SEEDING MIXTURE NO. 40, FERTILIZER TYPE B, AND EROSION MAT URBAN CLASS I TYPE A
- TOPSOIL, SEEDING MIXTURE NO. 40, FERTILIZER TYPE B, AND MULCH
- TEMPORARY DITCH CHECK
- TURTLE FENCE SALVAGED

PROJECT NO: 9266-11-03	HWY: CTH HH	COUNTY: BROWN	EROSION CONTROL	SHEET 22	E

2



LEGEND

- SLOPE INTERCEPT
- INLET PROTECTION (TYPE B OR C, AS INDICATED)
- MEDIUM RIP RAP WITH GEOTEXTILE FABRIC TYPE HR
- SILT FENCE
- SURFACE WATER FLOW
- TOPSOIL, SEEDING MIXTURE NO. 40, FERTILIZER TYPE B, AND EROSION MAT URBAN CLASS I TYPE A
- TOPSOIL, SEEDING MIXTURE NO. 40, FERTILIZER TYPE B, AND MULCH
- TEMPORARY DITCH CHECK
- TURTLE FENCE SALVAGED

PROJECT NO: 9266-11-03	HWY: CTH HH	COUNTY: BROWN	EROSION CONTROL	SHEET 23	E

FILE NAME : \\USGRB1FP001\ATG\60543140\900_CAD_GIS\910_CAD\92661102\SHEETSPLAN\022001_EC.DWG
LAYOUT NAME - 3

PLOT DATE : 10/1/2019 1:38 PM PLOT BY : ERICSON, SARAH PLOT NAME : PLOT SCALE : ##########

2

DETENTION POND

EMERGENCY SPILLWAY

EW-10 STA 10+05'EB', 149.5' LT
APRON ENDWALLS FOR CPRC 24-INCH

SI

6.1 STA 6+59'EB', 43.1' LT
INLETS 2x3-H

6.2 STA 6+59'EB', 16.6' LT
INLETS 2x3-H

STA 9+18'EB', 92.6' LT
APRON ENDWALLS FOR CPRC 24-INCH EW-9

9.1 STA 9+55'EB', 36.9' LT
MANHOLES 6-H

CTH HH 'WB' R/L

STA 9+55'EB', 16.5' LT
INLETS 4-H 9.2

6'WB' 7'WB' 8'WB' 9'WB' 10'WB' 11'WB'

BORE

6'EB' 7'EB' 8'EB' 9'EB' 10'EB' 11'EB'

9.3 STA 9+55'EB', 1.5' LT
INLETS 4-H

STA 11+10'EB', 35.0' RT
MANHOLES 4-J 11.0

6.3 STA 6+59'EB', 1.0' LT
INLETS 2x3-H

6.5 STA 6+69'EB', 1.1' LT
INLETS 2x3-H

CTH HH

STA 9+55'EB', 27.5' RT
INLETS 4-H 9.4

CTH HH 'EB' R/L

BEGIN PROJECT
STA 6+20.73 'EB'

SI

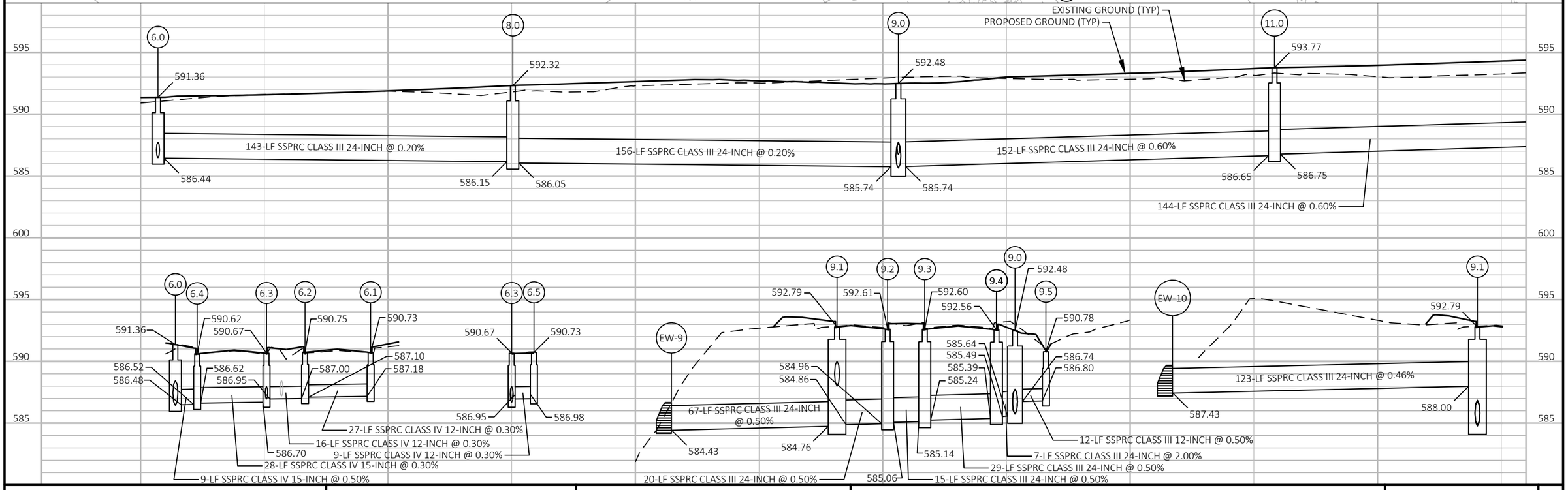
9.0 STA 9+55'EB', 35.0' RT
MANHOLES 5-J

STA 6+63'EB', 35.0' RT
MANHOLES 4-J 6.0

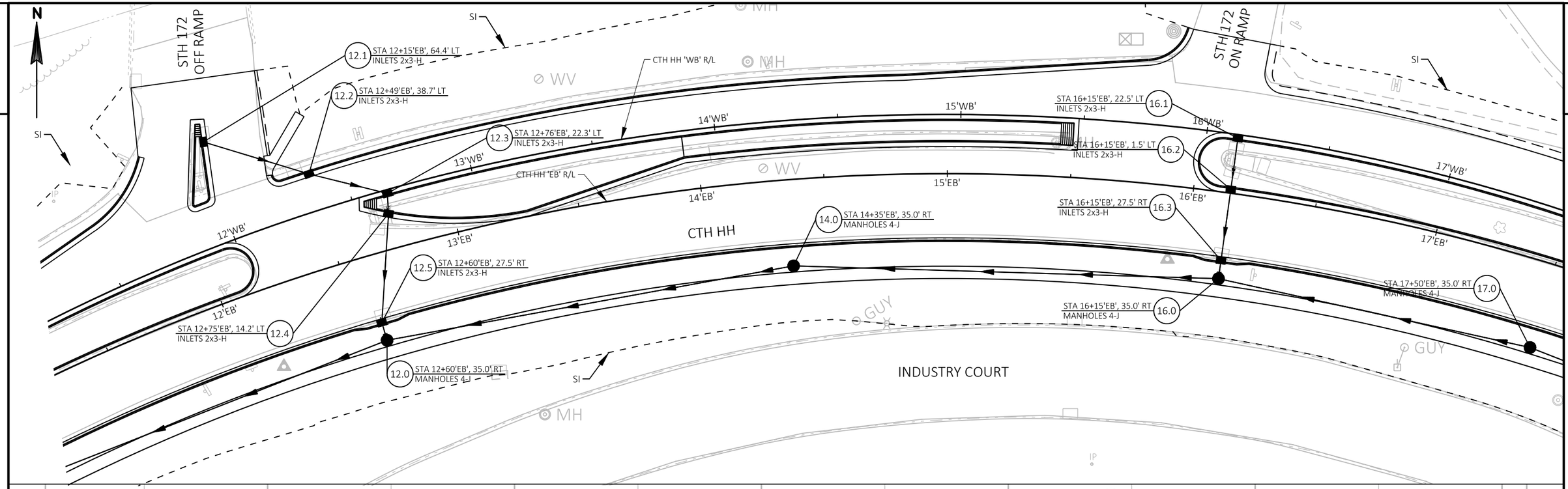
6.4 STA 6+59'EB', 27.0' RT
INLETS 2x3-H

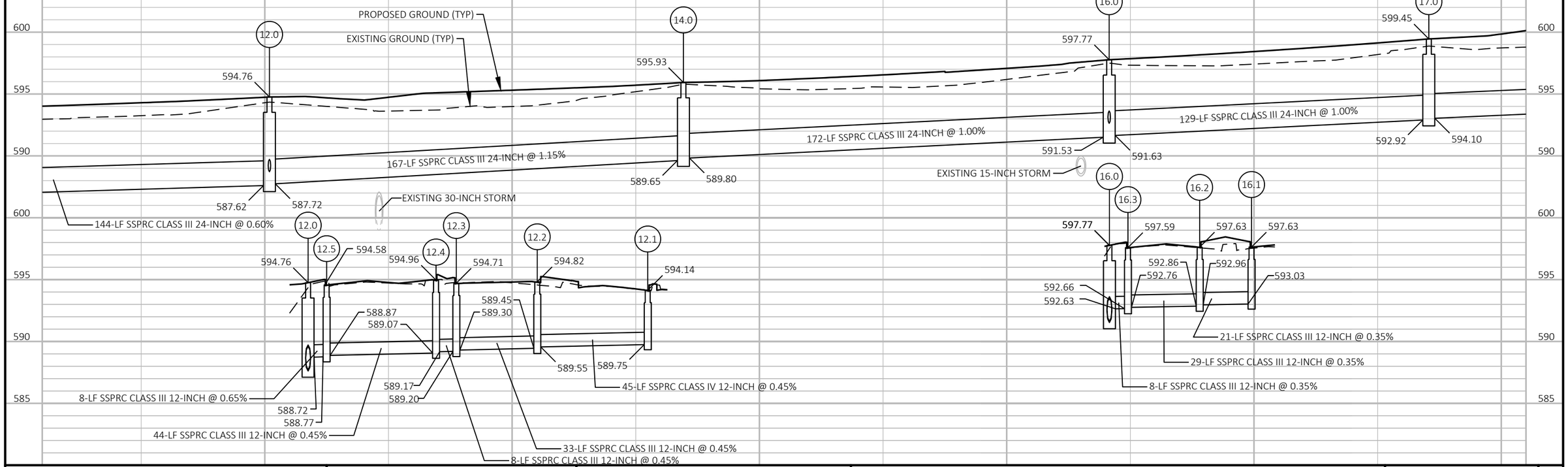
8.0 STA 8+00'EB', 35.0' RT
MANHOLES 4-J

9.5 STA 9+55'EB', 47.5' RT
INLETS 2x2-B

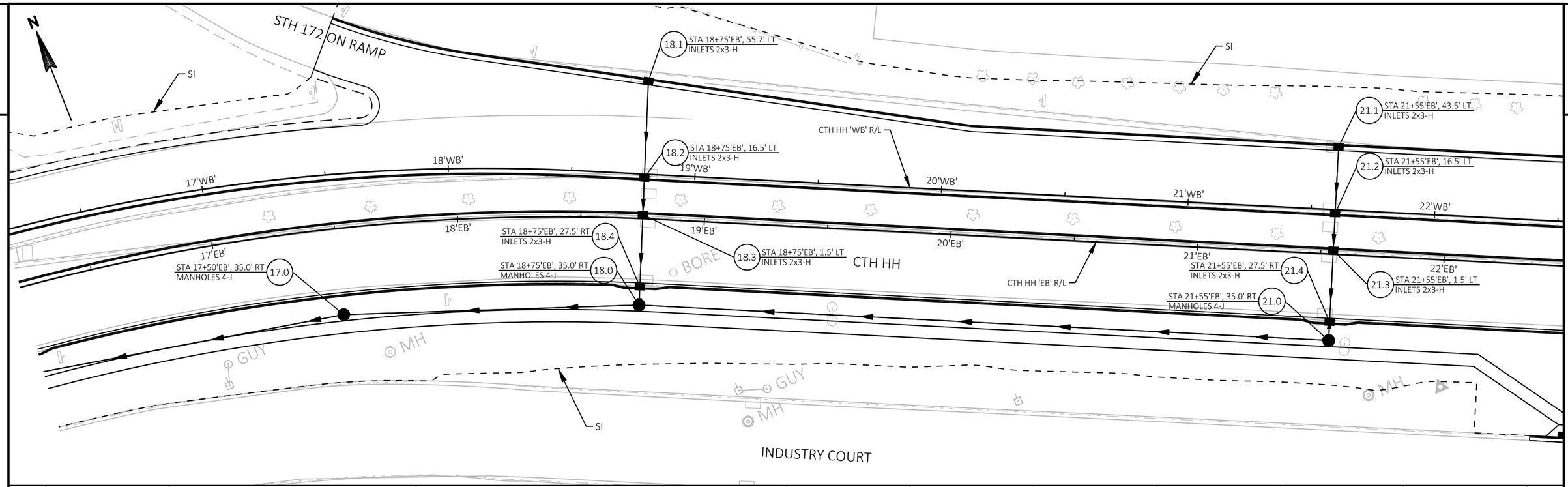


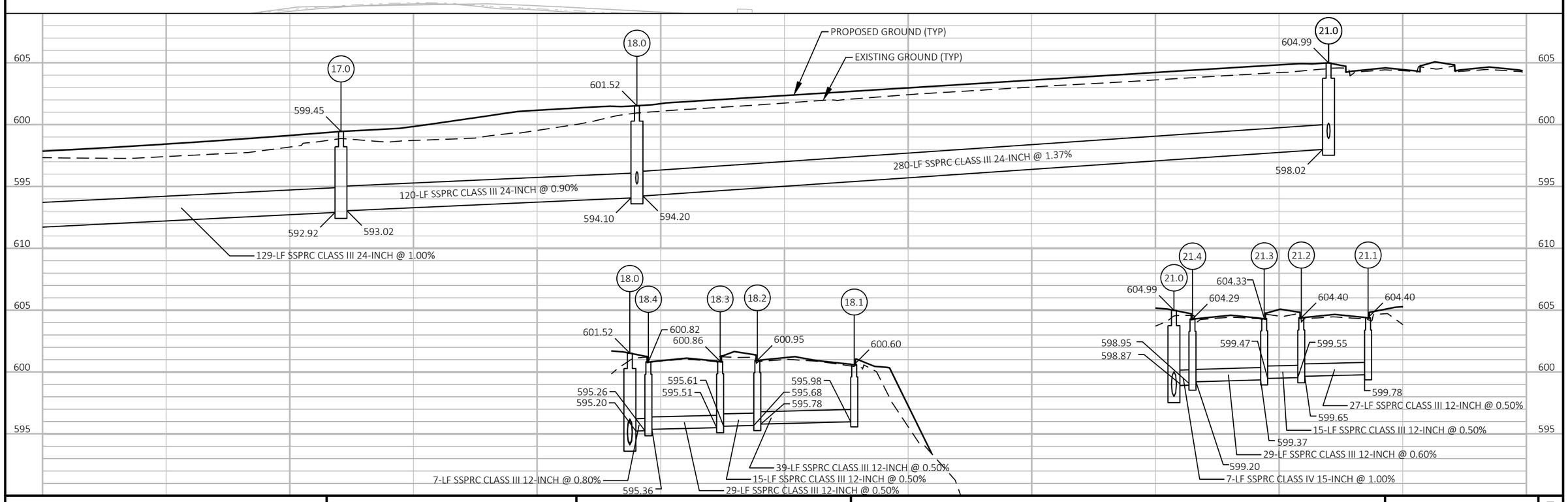
PROJECT NO: 9266-11-03	HWY: CTH HH	COUNTY: BROWN	STORM SEWER	SHEET 24	E





PROJECT NO: 9266-11-03	HWY: CTH HH	COUNTY: BROWN	STORM SEWER	SHEET 25	E





PROJECT NO: 9266-11-03	HWY: CTH HH	COUNTY: BROWN	STORM SEWER	SHEET	E

FILE NAME : \\USGRB1FP001\ATG\60543140\900_CAD_GIS\910_CAD\92661102\SHEETSPLAN\022501_SS.DWG
LAYOUT NAME - 022503_ss
PLOT DATE : 7/31/2019 10:04 AM PLOT BY : WEBER, JESSE PLOT NAME : PLOT SCALE : 1 IN:40 FT
WISDOT/CADDS SHEET 41

2

2

HOLMGREN WAY

DETENTION POND

CTH HH

ONLY ONLY ONLY
1-1
R3-8W
54"X30"
MOUNTED ON POST
WITH SIGN 1-4

WRONG WAY
1-4
R5-1A
36"X24"

RIGHT LANE MUST TURN RIGHT
1-6
R3-7R
30"X30"

CTH HH 'WB' R/L

CTH HH 'EB' R/L

3'WB'
4'WB'
4'EB'
5'WB'
5'EB'
6'WB'
6'EB'
7'WB'
7'EB'
8'WB'
8'EB'

MATCHLINE STA 9+00'EB'

BEGIN CONSTRUCTION
STA 3+50.63 'EB'

BEGIN PROJECT
STA 6+20.73 'EB'

SPEED LIMIT 35
1-2
R2-1
24"X30"

WRONG WAY
1-3
R5-1A
36"X24"

JCT 172
1-5
J1-1
24"X39"

LEGEND

- EXISTING SIGN MOUNTED ON POST(S)
- EXISTING SIGN MOUNTED ON SIGNAL
- PROPOSED SIGN MOUNTED ON POST(S)
- PROPOSED SIGN MOUNTED ON SIGNAL
- EXISTING LIGHT OR SIGNAL POLE
- XX DENOTES SIGN NUMBER

PROJECT NO: 9266-11-03	HWY: CTH HH	COUNTY: BROWN	SIGNING	SHEET 27	E

FILE NAME : \\USGRB1FP001\ATG\60543140\900_CAD_GIS\910_CAD\92661102\SHEETSPLAN\023201_PS.DWG
LAYOUT NAME - 0

PLOT DATE : 9/19/2019 11:05 AM PLOT BY : ERICSON, SARAH PLOT NAME : PLOT SCALE : ##########

WISDOT/CADDS SHEET 44

2

DUTCHMAN CREEK

STH 172 OFF RAMP

STH 172 OFF RAMP 'A' R/L

B-05-152
(NO WORK)

END CONSTRUCTION
STA 322+70.38 'A'

N

333'A'

332'A'

2-8
W12-1D
24"X24"

2-2
R6-1R
36"X12"
ONE WAY

2-6
R1-1
30"X30"
STOP

2-3
R6-3A
30"X24"
DIVIDED HIGHWAY

2-5
R1-1
30"X30"
STOP

2-1
W3-3
36"X36"

2-11
R1-1
30"X30"
STOP

2-14
R5-1
30"X30"
DO NOT ENTER

2-15
R3-1
24"X24"
MOUNTED ON POST
WITH SIGN 2-14

CTH HH 'WB' R/L

11'WB'

10'WB'

9'WB'

12'WB'

13'WB'

14'WB'

11'EB'

10'EB'

12'EB'

13'EB'

14'EB'

CTH HH

CTH HH 'EB' R/L

MATCHLINE STA 9+00'EB'

MATCHLINE STA 14+50'EB'

2-4
R6-2L
24"X30"
ONE WAY

2-7
R5-1
30"X30"
DO NOT ENTER
MOUNTED ON POST
WITH SIGN 2-6

2-13
R6-2R
24"X30"
ONE WAY

2-12
R5-1
30"X30"
DO NOT ENTER
MOUNTED ON POST
WITH SIGN 2-11

FLAG

INDUSTRY COURT

2-9
R3-2
24"X24"

2-16
J3-1
24"X57"
EAST
172

2-17
R2-1
24"X30"
SPEED LIMIT
35

2-10
R5-1
30"X30"
DO NOT ENTER
MOUNTED ON POST
WITH SIGN 2-9

LEGEND

- EXISTING SIGN MOUNTED ON POST(S)
- EXISTING SIGN MOUNTED ON SIGNAL
- PROPOSED SIGN MOUNTED ON POST(S)
- PROPOSED SIGN MOUNTED ON SIGNAL
- EXISTING LIGHT OR SIGNAL POLE
- XX DENOTES SIGN NUMBER

PROJECT NO: 9266-11-03	HWY: CTH HH	COUNTY: BROWN	SIGNING	SHEET 28	E

2

2

STH 172 ON RAMP 'B' R/L

327'B'

STH 172 ON RAMP

326'B'

327'C'

STH 172 ON RAMP

326'C'

STH 172 ON RAMP 'C' R/L

END CONSTRUCTION
STA 326+21.23 'B'

END CONSTRUCTION
STA 325+69.15 'C'

3-1 WRONG WAY
R5-1A
36"X24"

3-4 SPEED LIMIT 35
R2-1
24"X30"

CTH HH 'WB' R/L

3-5 EAST TO 172 43 INTERSTATE
J3-2
48"X57"

3-6 RAMP 30 MPH
W13-3
24"X30"

325'C'

16'WB'

17'WB'

15'WB'

18'WB'

324'C'

MATCHLINE STA 14+50'EB'

16'EB'

17'EB'

15'EB'

CTH HH

18'EB'

19'WB'

19'EB'

20'WB

MATCHLINE STA 20+00'EB'

GUY

MH

CTH HH 'EB' R/L

3-2 EAST TO 172 43 INTERSTATE
J3-2
48"X57"

3-3 JCT 32
J1-1
24"X39"

INDUSTRY COURT

3-7
W3-3
36"X36"

GUY

MH

LEGEND

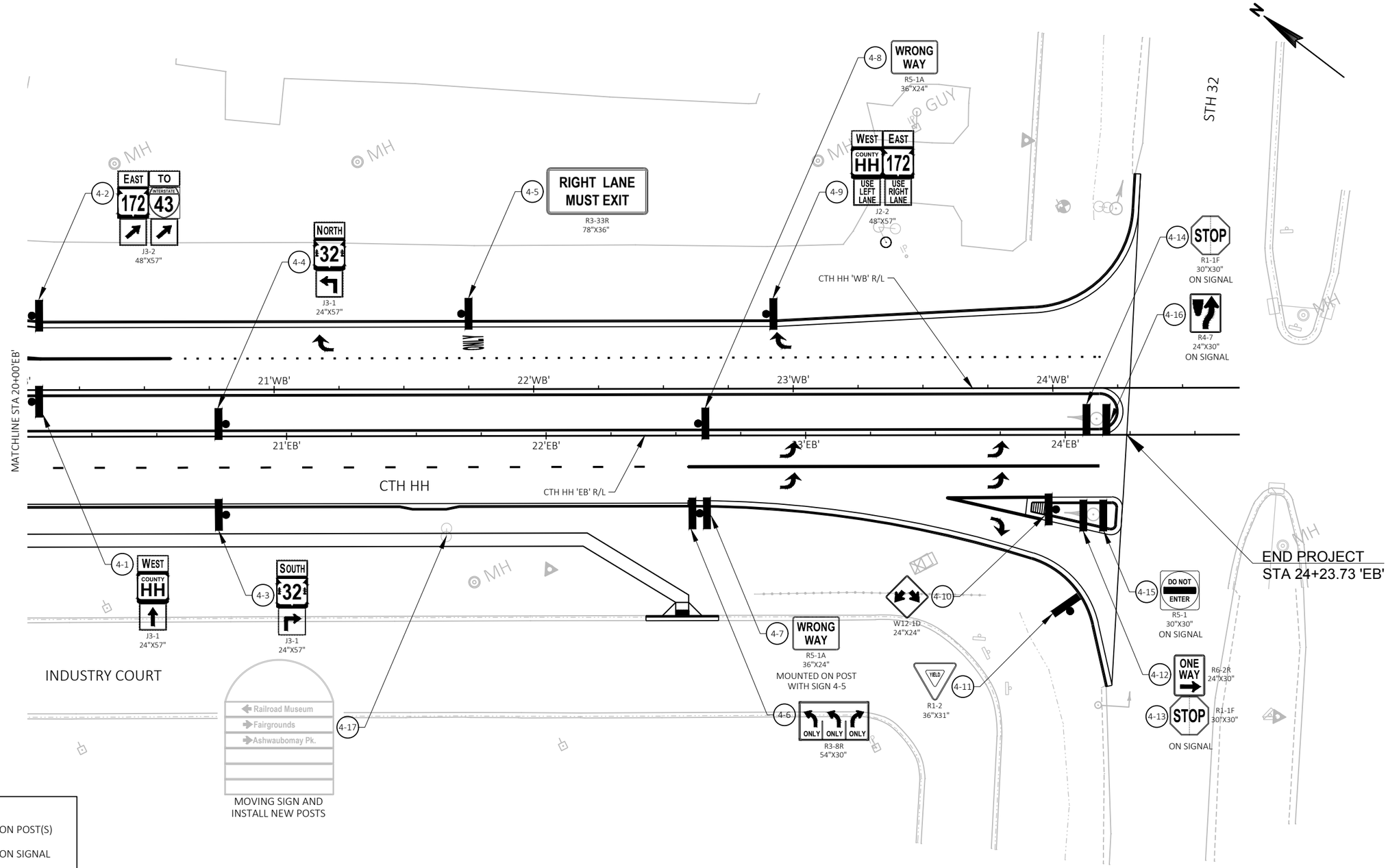
- EXISTING SIGN MOUNTED ON POST(S)
- EXISTING SIGN MOUNTED ON SIGNAL
- PROPOSED SIGN MOUNTED ON POST(S)
- PROPOSED SIGN MOUNTED ON SIGNAL
- EXISTING LIGHT OR SIGNAL POLE
- XX DENOTES SIGN NUMBER

PROJECT NO: 9266-11-03	HWY: CTH HH	COUNTY: BROWN	SIGNING	SHEET 29	E

FILE NAME : \\USGRB1FP001\ATG\60543140\900_CAD_GIS\910_CAD\92661102\SHEETSPLAN\023201_PS.DWG
LAYOUT NAME - 2

PLOT DATE : 9/19/2019 11:05 AM PLOT BY : ERICSON, SARAH PLOT NAME : PLOT SCALE : ##########

2



PROJECT NO: 9266-11-03	HWY: CTH HH	COUNTY: BROWN	SIGNING	SHEET 30	E

FILE NAME : P:\60543140\900_CAD_GIS\910_CAD\92661102\SHEETSPLAN\023201_PS.DWG
LAYOUT NAME - 3

PLOT DATE : 9/26/2019 1:46 PM PLOT BY : ERICSON, SARAH PLOT NAME : PLOT SCALE : ##########

2

2

DETENTION POND

HOLMGREN WAY

CTH HH

CTH HH 'WB' R/L

CTH HH 'EB' R/L

MATCHLINE STA 9+00 'EB'

BEGIN CONSTRUCTION
STA 3+50.63 'EB'

BEGIN PROJECT
STA 6+20.73 'EB'

3'WB'
4'WB'
4'EB'
5'WB'
5'EB'
6'WB'
6'EB'
7'WB'
7'EB'
8'WB'
8'EB'
12'
+100.00
WA
WW
W-8
WD-8
WD-4
WD-4 LINE
2'LINE

LEGEND

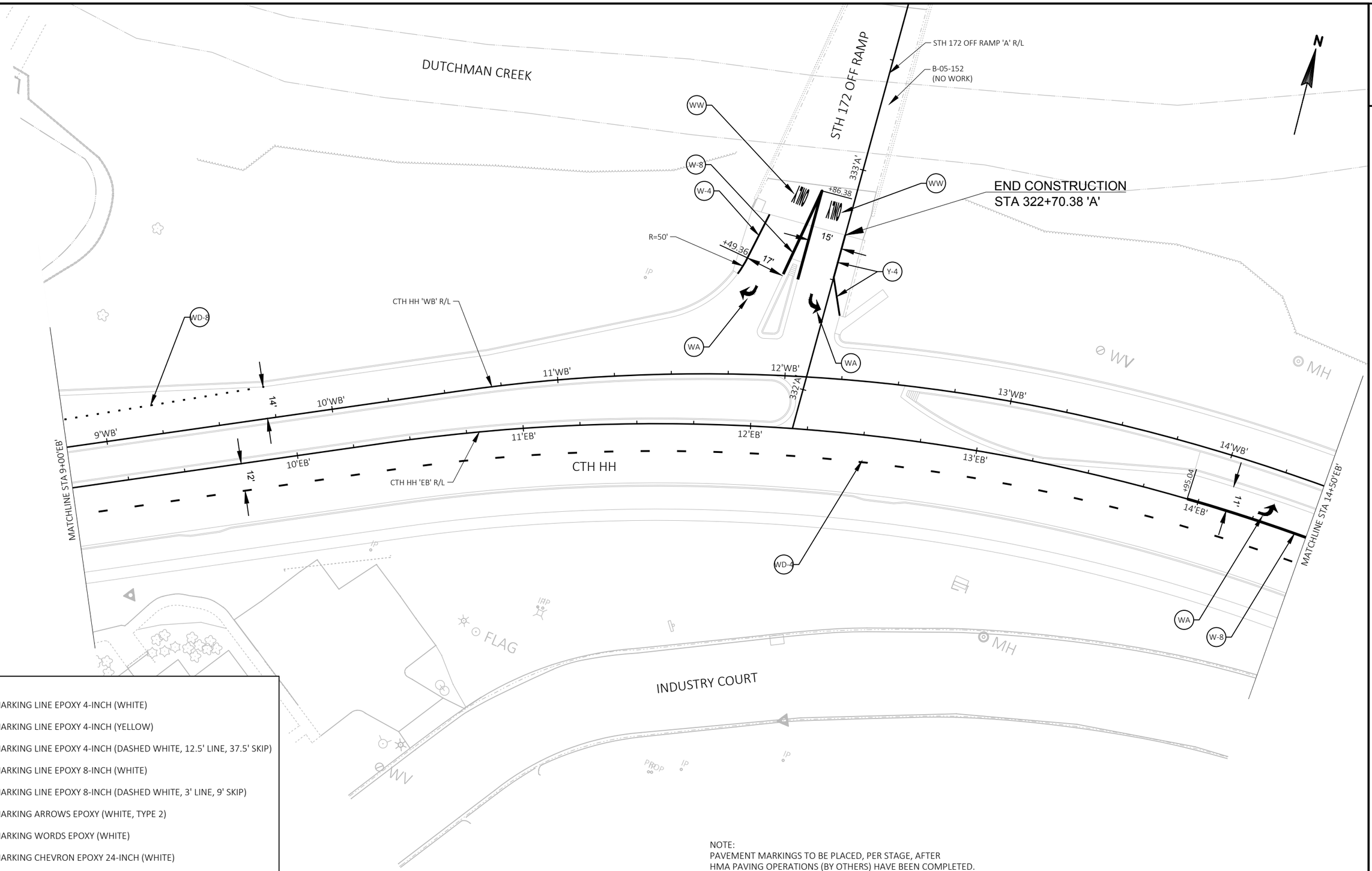
- W-4 MARKING LINE EPOXY 4-INCH (WHITE)
- Y-4 MARKING LINE EPOXY 4-INCH (YELLOW)
- WD-4 MARKING LINE EPOXY 4-INCH (DASHED WHITE, 12.5' LINE, 37.5' SKIP)
- W-8 MARKING LINE EPOXY 8-INCH (WHITE)
- WD-8 MARKING LINE EPOXY 8-INCH (DASHED WHITE, 3' LINE, 9' SKIP)
- WA MARKING ARROWS EPOXY (WHITE, TYPE 2)
- WW MARKING WORDS EPOXY (WHITE)
- WC MARKING CHEVRON EPOXY 24-INCH (WHITE)

NOTE:
PAVEMENT MARKINGS TO BE PLACED, PER STAGE, AFTER
HMA PAVING OPERATIONS (BY OTHERS) HAVE BEEN COMPLETED.

PROJECT NO: 9266-11-03	HWY: CTH HH	COUNTY: BROWN	MARKING PLAN	SHEET 31	E

FILE NAME : \\USGRB1FP001\ATG\60543140\900_CAD_GIS\910_CAD\92661102\SHEETSPLAN\024501_PM.DWG
LAYOUT NAME - 0
PLOT DATE : 9/19/2019 11:03 AM
PLOT BY : ERICSON, SARAH
PLOT NAME :
PLOT SCALE : ##########

2



LEGEND

- (W-4) MARKING LINE EPOXY 4-INCH (WHITE)
- (Y-4) MARKING LINE EPOXY 4-INCH (YELLOW)
- (WD-4) MARKING LINE EPOXY 4-INCH (DASHED WHITE, 12.5' LINE, 37.5' SKIP)
- (W-8) MARKING LINE EPOXY 8-INCH (WHITE)
- (WD-8) MARKING LINE EPOXY 8-INCH (DASHED WHITE, 3' LINE, 9' SKIP)
- (WA) MARKING ARROWS EPOXY (WHITE, TYPE 2)
- (WW) MARKING WORDS EPOXY (WHITE)
- (WC) MARKING CHEVRON EPOXY 24-INCH (WHITE)

NOTE:
PAVEMENT MARKINGS TO BE PLACED, PER STAGE, AFTER
HMA PAVING OPERATIONS (BY OTHERS) HAVE BEEN COMPLETED.

PROJECT NO: 9266-11-03	HWY: CTH HH	COUNTY: BROWN	MARKING PLAN	SHEET 32	E

FILE NAME : \\USGRB1FP001\ATG\60543140\900_CAD_GIS\910_CAD\92661102\SHEETSPLAN\024501_PM.DWG
LAYOUT NAME - 1
PLOT DATE : 9/19/2019 11:03 AM PLOT BY : ERICSON, SARAH PLOT NAME : PLOT SCALE : ##########
WISDOT/CADDS SHEET 44

2

2

STH 172 ON RAMP 'B' R/L

END CONSTRUCTION
STA 326+21.23 'B'

STH 172 ON RAMP

327'B'

326'B'

STH 172 ON RAMP

327'C'

326'C'

STH 172 ON RAMP 'C' R/L

END CONSTRUCTION
STA 325+69.15 'C'

CTH HH 'WB' R/L

W-4

W-8

+15.76

14'

16'WB'

17'WB'

15'WB'

18'WB'

15'

325'C'

WC

+33.40

14'

324'C'

STA 18+53.40 'WB' - STA 20+10.13 'WB'
LANE WIDTH VARIES 12' - 14'

MATCHLINE STA 14+50'EB'

+41.44

11'

12'

16'EB'

17'EB'

18'EB'

19'WB'

15'EB'

CTH HH

WA

W-8

WW

WD-4

19'EB'

20'WB'

MATCHLINE STA 20+00'EB'

GUY

MH

CTH HH 'EB' R/L

INDUSTRY COURT

LEGEND

- W-4 MARKING LINE EPOXY 4-INCH (WHITE)
- Y-4 MARKING LINE EPOXY 4-INCH (YELLOW)
- WD-4 MARKING LINE EPOXY 4-INCH (DASHED WHITE, 12.5' LINE, 37.5' SKIP)
- W-8 MARKING LINE EPOXY 8-INCH (WHITE)
- WD-8 MARKING LINE EPOXY 8-INCH (DASHED WHITE, 3' LINE, 9' SKIP)
- WA MARKING ARROWS EPOXY (WHITE, TYPE 2)
- WW MARKING WORDS EPOXY (WHITE)
- WC MARKING CHEVRON EPOXY 24-INCH (WHITE)

NOTE:
PAVEMENT MARKINGS TO BE PLACED, PER STAGE, AFTER
HMA PAVING OPERATIONS (BY OTHERS) HAVE BEEN COMPLETED.

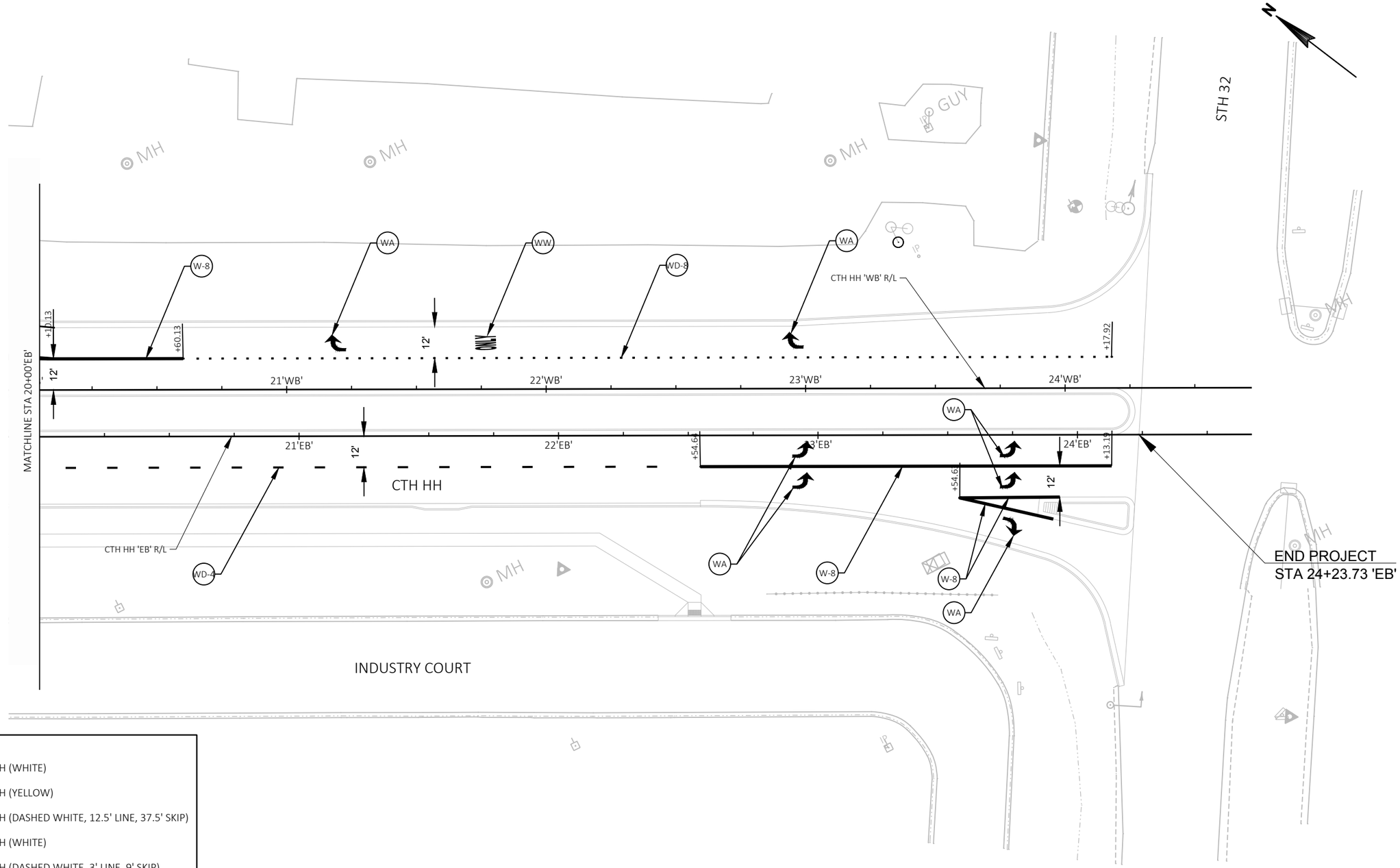
PROJECT NO: 9266-11-03	HWY: CTH HH	COUNTY: BROWN	MARKING PLAN	SHEET 33	E

FILE NAME : \\USGRB1FP001\ATG\60543140\900_CAD_GIS\910_CAD\92661102\SHEETSPLAN\024501_PM.DWG
LAYOUT NAME - 2

PLOT DATE : 9/19/2019 11:03 AM PLOT BY : ERICSON, SARAH PLOT NAME : PLOT SCALE : ##########

WISDOT/CADDS SHEET 42

2



LEGEND

- W-4 MARKING LINE EPOXY 4-INCH (WHITE)
- Y-4 MARKING LINE EPOXY 4-INCH (YELLOW)
- WD-4 MARKING LINE EPOXY 4-INCH (DASHED WHITE, 12.5' LINE, 37.5' SKIP)
- W-8 MARKING LINE EPOXY 8-INCH (WHITE)
- WD-8 MARKING LINE EPOXY 8-INCH (DASHED WHITE, 3' LINE, 9' SKIP)
- WA MARKING ARROWS EPOXY (WHITE, TYPE 2)
- WW MARKING WORDS EPOXY (WHITE)
- WC MARKING CHEVRON EPOXY 24-INCH (WHITE)

NOTE:
PAVEMENT MARKINGS TO BE PLACED, PER STAGE, AFTER
HMA PAVING OPERATIONS (BY OTHERS) HAVE BEEN COMPLETED.

PROJECT NO: 9266-11-03	HWY: CTH HH	COUNTY: BROWN	MARKING PLAN	SHEET 34	E

2

STAGE 1 TRAFFIC

STH 172 OFF RAMP:
RIGHT TURNS ONTO CTH HH TOWARDS HOLMGREN WAY RESTRICTED.
TRAFFIC MUST TURN LEFT ONTO CTH HH TOWARDS ASHLAND AVENUE.
DETOUR TO HOLMGREN WAY IN PLACE.

STH 172 ON RAMP:
ACCESS TO STH 172 ON RAMP ONLY FROM ASHLAND AVENUE USING FREE-FLOW PORTION OF RAMP. DETOUR FOR HOLMGREN WAY TRAFFIC WANTING TO ACCESS STH 172 ON RAMP IN PLACE.

CTH HH:
THRU ACCESS FOR EASTBOUND AND WESTBOUND TRAFFIC RESTRICTED. DETOUR IN PLACE. WEST OF HOLMGREN WAY, DESIGNATE EASTBOUND LANES AS RIGHT AND LEFT TURN ONLY.

HOLMGREN WAY:
SOUTHBOUND LEFT TURNS AND NORTHBOUND RIGHT TURNS RESTRICTED AT CTH HH.

STAGE 1 CONSTRUCTION

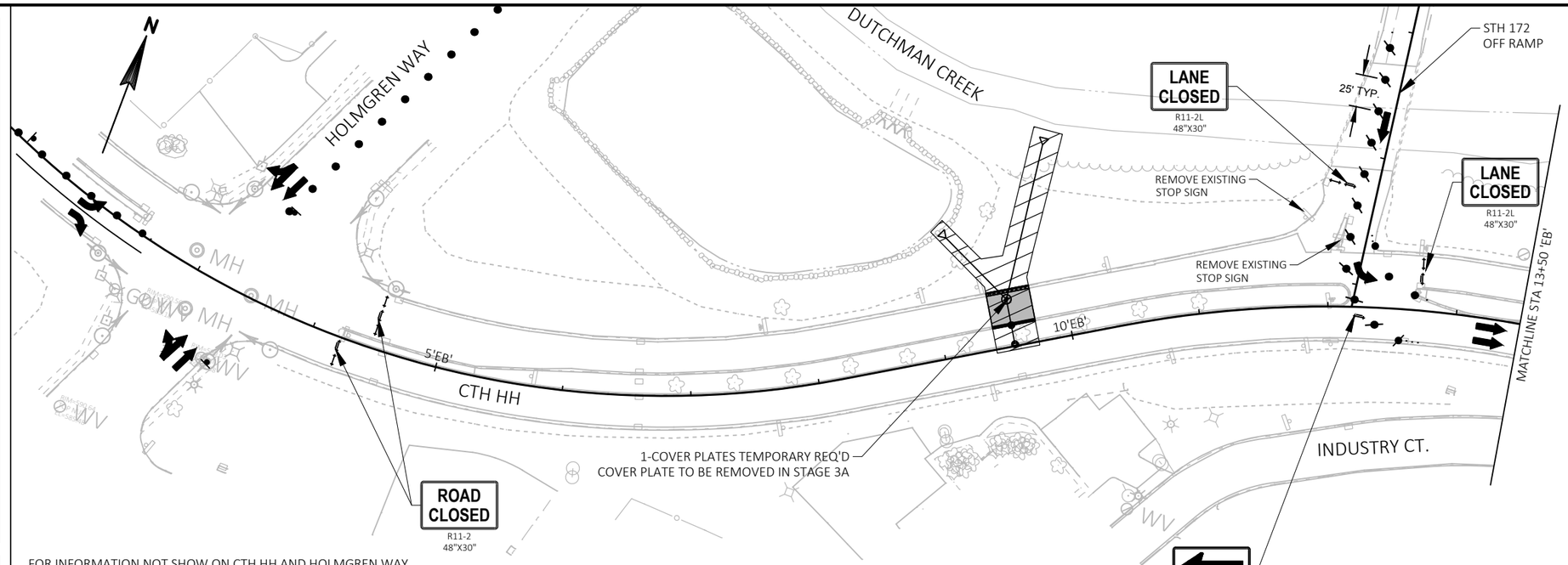
CTH HH:
CONSTRUCT STORM SEWER FROM OUTFALL AT POND TO EASTBOUND MEDIAN. RESTORE WESTBOUND CTH HH WITH ASPHALTIC SURFACE TEMPORARY AND ASPHALTIC CURB.

TRAFFIC CONTROL LEGEND

- TYPE III BARRICADE
- TYPE III BARRICADE WITH ATTACHED SIGN
- TRAFFIC CONTROL DRUM
- TRAFFIC CONTROL DRUM WITH TYPE C STEADY BURN LIGHT
- SIGN ON PERMANENT POST
- DIRECTION OF TRAFFIC
- REMOVE PAVEMENT MARKING
- WORK ZONE
- ASPHALTIC SURFACE TEMPORARY
- ASPHALTIC CURB

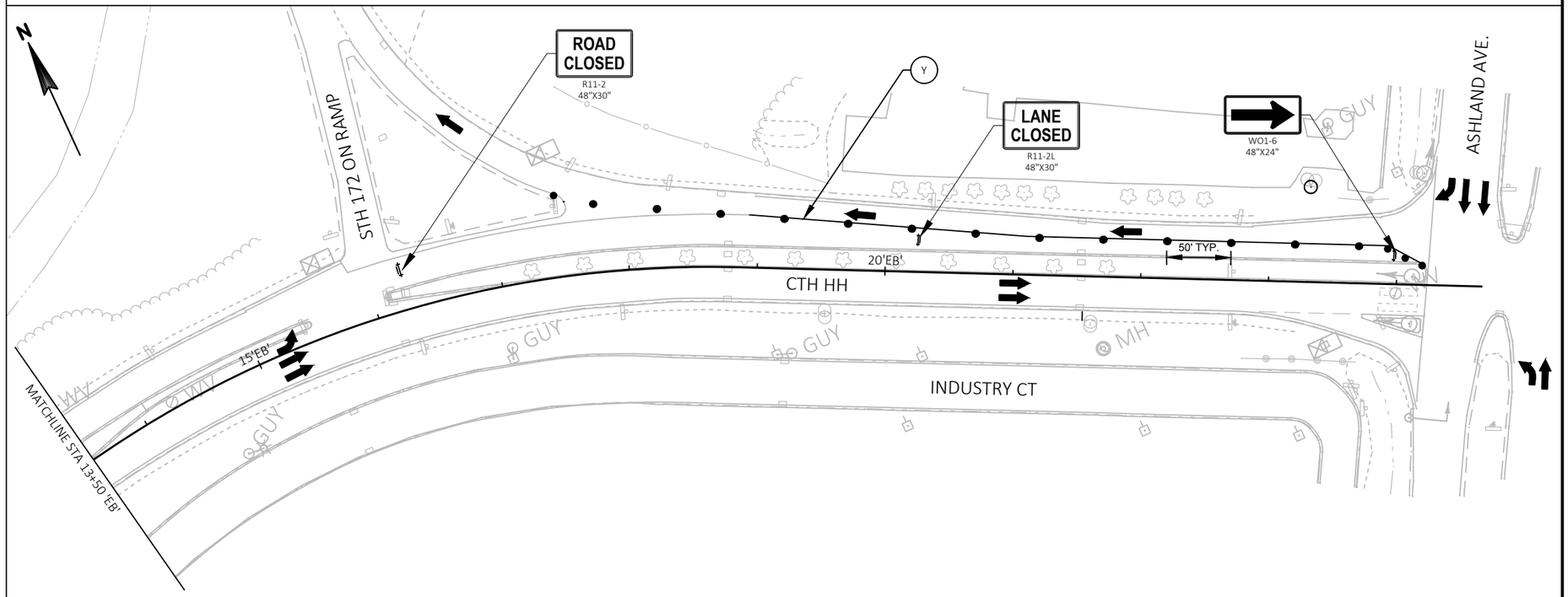
TEMPORARY MARKING LEGEND

- (Y) TEMPORARY MARKING LINE PAINT 4-INCH (YELLOW)
- (W) TEMPORARY MARKING LINE PAINT 4-INCH (WHITE)
- (YT) TEMPORARY MARKING LINE REMOVABLE TAPE 4-INCH (YELLOW)
- (WT) TEMPORARY MARKING LINE REMOVABLE TAPE 4-INCH (WHITE)



FOR INFORMATION NOT SHOW ON CTH HH AND HOLMGREN WAY, SEE "TRAFFIC CONTROL: STAGES 1 & 2 SIDEROADS" SHEET.

FOR ADVANCED SIGNING NOT SHOWN, SEE "DETOUR - STAGE 1" SHEET.



PROJECT NO: 9266-11-03	HWY: CTH HH	COUNTY: BROWN	TRAFFIC CONTROL: STAGE 1	SHEET 35	E

2

STAGE 2 TRAFFIC

STH 172 OFF RAMP:
LEFT TURNS ONTO CTH HH TOWARDS ASHLAND AVENUE RESTRICTED.
TRAFFIC MUST TURN RIGHT ONTO CTH HH TOWARDS HOLMGREN WAY.
DETOUR TO ASHLAND AVENUE IN PLACE.

STH 172 ON RAMP:
ACCESS TO STH 172 ON RAMP ONLY FROM ASHLAND AVENUE USING FREE-FLOW PORTION OF RAMP. DETOUR FOR HOLMGREN WAY TRAFFIC WANTING TO ACCESS STH 172 ON RAMP IN PLACE.

CTH HH:
THRU ACCESS FOR EASTBOUND AND WESTBOUND TRAFFIC RESTRICTED. DETOUR IN PLACE. WEST OF HOLMGREN WAY, DESIGNATE EASTBOUND LANES AS RIGHT AND LEFT TURN ONLY.

HOLMGREN WAY:
SOUTHBOUND LEFT TURNS AND NORTHBOUND RIGHT TURNS RESTRICTED
AT CTH HH.

INDUSTRY COURT:
WESTBOUND SHOULDER CLOSED ALONG CTH HH.

STAGE 2 CONSTRUCTION

STH 172 OFF RAMP:
RECONSTRUCT LEFT TURN LANE OF STH 172 OFF RAMP AND CONNECTION TO CTH HH. CONNECT STORM SEWER TO STORM SEWER TRUNK LINE ACROSS WESTBOUND CTH HH. PAVE BOTTOM, MIDDLE, AND TOP LIFTS OF ASPHALT.

STH 172 ON RAMP:
RECONSTRUCT WESTERN SIDE OF STH 172 ON RAMP AND CONNECTION TO CTH HH. PAVE BOTTOM, MIDDLE, AND TOP LIFTS OF ASPHALT.

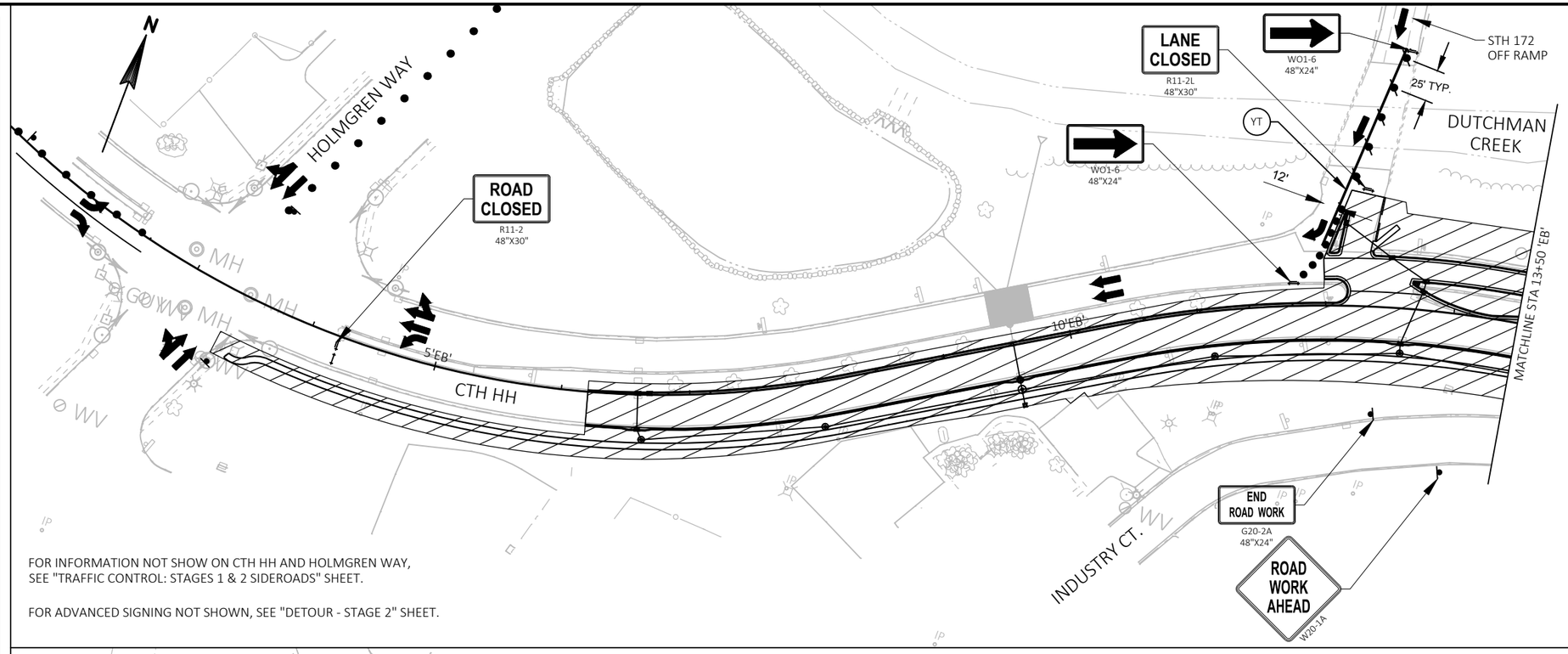
CTH HH:
RECONSTRUCT EASTBOUND DIRECTION OF CTH HH FROM HOLMGREN WAY TO ASHLAND AVENUE. CONSTRUCT STORM SEWER TRUNK LINE AND CONNECT TO STORM SEWER OUTFALL AT POND.
RECONSTRUCT WESTBOUND DIRECTION OF CTH HH FROM STH 172 OFF RAMP TO WESTERN STH 172 ON RAMP. ONLY PAVE BOTTOM AND MIDDLE LIFTS OF ASPHALT IN WESTBOUND DIRECTION OF CTH HH IN STAGE 2.

TRAFFIC CONTROL LEGEND

- TYPE III BARRICADE
- TYPE III BARRICADE WITH ATTACHED SIGN
- TRAFFIC CONTROL DRUM
- TRAFFIC CONTROL DRUM WITH TYPE C STEADY BURN LIGHT
- SIGN ON PERMANENT POST
- DIRECTION OF TRAFFIC
- REMOVE PAVEMENT MARKING
- WORK ZONE
- ASPHALTIC SURFACE TEMPORARY
- ASPHALTIC CURB

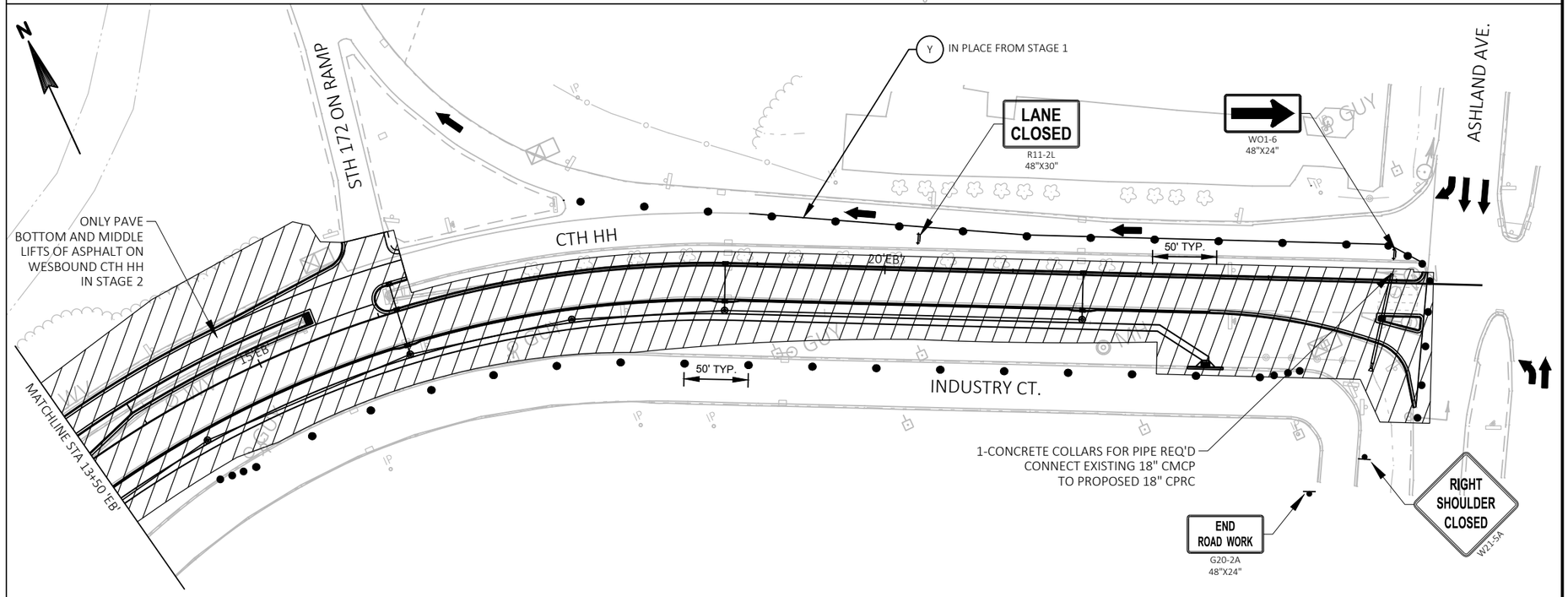
TEMPORARY MARKING LEGEND

- (Y) TEMPORARY MARKING LINE PAINT 4-INCH (YELLOW)
- (W) TEMPORARY MARKING LINE PAINT 4-INCH (WHITE)
- (YT) TEMPORARY MARKING LINE REMOVABLE TAPE 4-INCH (YELLOW)
- (WT) TEMPORARY MARKING LINE REMOVABLE TAPE 4-INCH (WHITE)



FOR INFORMATION NOT SHOW ON CTH HH AND HOLMGREN WAY, SEE "TRAFFIC CONTROL: STAGES 1 & 2 SIDEROADS" SHEET.

FOR ADVANCED SIGNING NOT SHOWN, SEE "DETOUR - STAGE 2" SHEET.



PROJECT NO: 9266-11-03	HWY: CTH HH	COUNTY: BROWN	TRAFFIC CONTROL: STAGE 2	SHEET 36	E

2

STAGE 3A TRAFFIC

STH 172 OFF RAMP:
RIGHT TURNS ONTO CTH HH TOWARDS HOLMGREN WAY RESTRICTED. TRAFFIC MUST TURN LEFT ONTO CTH HH TOWARDS ASHLAND AVENUE. DETOUR TO HOLMGREN WAY IN PLACE.

STH 172 ON RAMP:
ACCESS TO STH 172 ON RAMP ONLY FROM HOLMGREN WAY USING WESTERN PORTION OF RAMP. DETOUR FOR ASHLAND AVENUE TRAFFIC WANTING TO ACCESS STH 172 ON RAMP IN PLACE.

CTH HH:
THRU ACCESS FOR WESTBOUND TRAFFIC RESTRICTED. THRU ACCESS FOR EASTBOUND TRAFFIC AND RAMP ACCESS ONLY. DETOUR FOR WESBOUND TRAFFIC IN PLACE.

ASHLAND AVENUE:
NORTHBOUND LEFT TURNS AND SOUTHBOUND RIGHT TURNS RESTRICTED AT CTH HH.

STAGE 3A CONSTRUCTION

STH 172 OFF RAMP:
RECONSTRUCT RIGHT TURN LANE OF STH 172 OFF RAMP AND CONNECTION TO CTH HH. ABANDON EXISTING STORM SEWER PIPE CONNECTION.

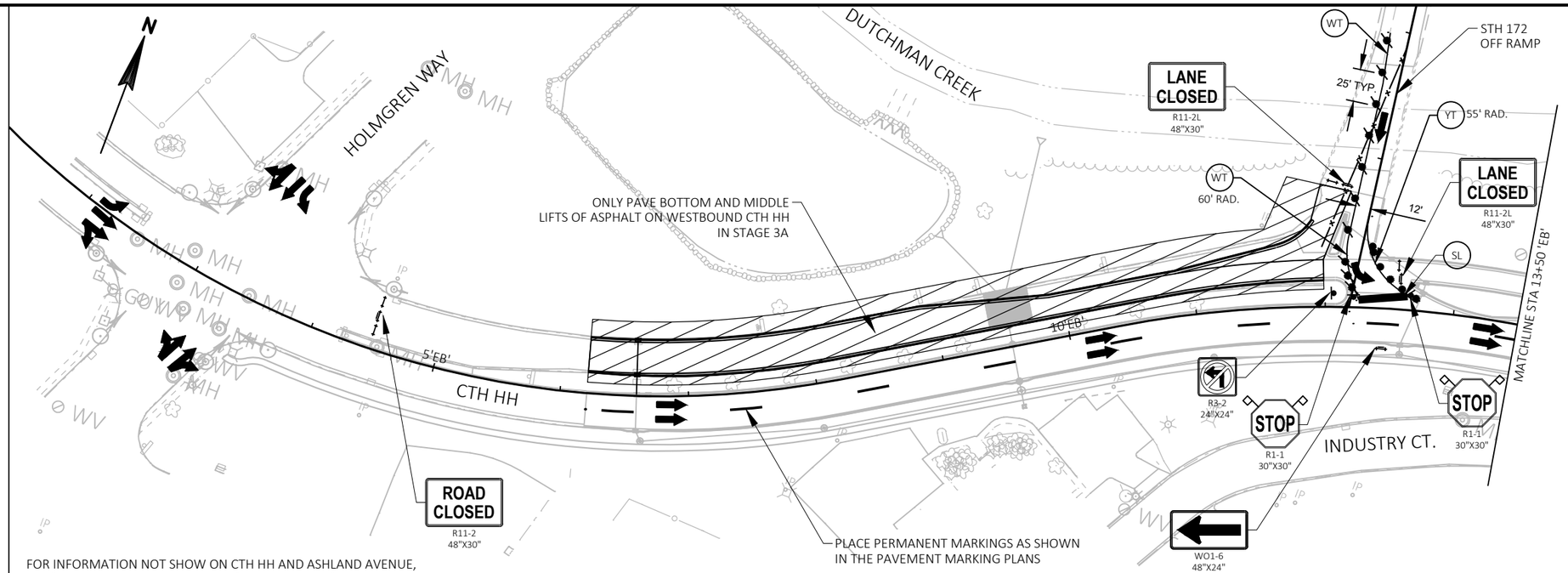
CTH HH:
CONSTRUCT REMAINING STORM SEWER AND CONNECT TO TRUNK LINE. RECONSTRUCT WESTBOUND CTH HH FROM HOLMGREN WAY TO ASHLAND AVENUE. ONLY PAVE BOTTOM AND MIDDLE LIFTS OF ASPHALT IN WESTBOUND DIRECTION OF CTH HH IN STAGE 3A.

TRAFFIC CONTROL LEGEND

- TYPE III BARRICADE
- TYPE III BARRICADE WITH ATTACHED SIGN
- TRAFFIC CONTROL DRUM
- TRAFFIC CONTROL DRUM WITH TYPE C STEADY BURN LIGHT
- SIGN ON PERMANENT POST
- DIRECTION OF TRAFFIC
- REMOVE PAVEMENT MARKING
- WORK ZONE
- ASPHALTIC SURFACE TEMPORARY
- ASPHALTIC CURB

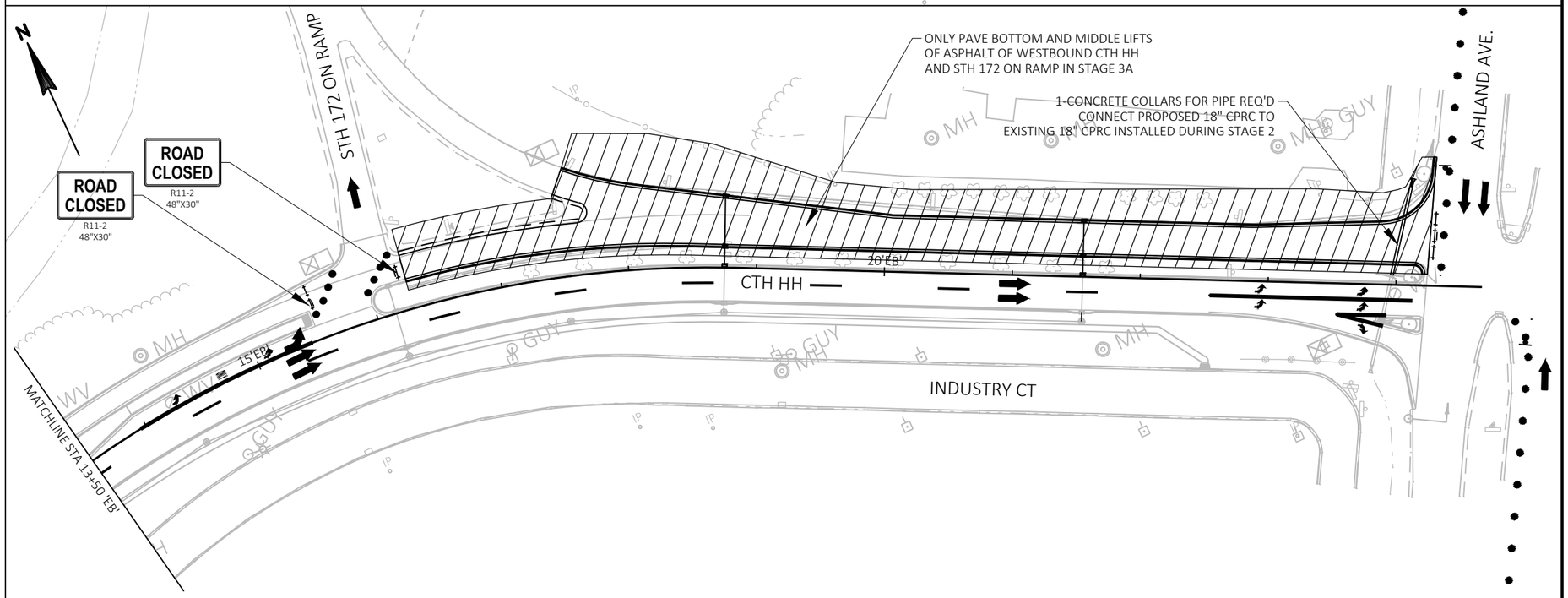
TEMPORARY MARKING LEGEND

- (Y) TEMPORARY MARKING LINE PAINT 4-INCH (YELLOW)
- (W) TEMPORARY MARKING LINE PAINT 4-INCH (WHITE)
- (YT) TEMPORARY MARKING LINE REMOVABLE TAPE 4-INCH (YELLOW)
- (WT) TEMPORARY MARKING LINE REMOVABLE TAPE 4-INCH (WHITE)
- (SL) TEMPORARY MARKING STOP LINE REMOVABLE TAPE 18-INCH (WHITE)



FOR INFORMATION NOT SHOW ON CTH HH AND ASHLAND AVENUE, SEE "TRAFFIC CONTROL: STAGES 3A & 3B SIDEROADS" SHEET.

FOR ADVANCED SIGNING NOT SHOWN, SEE "DETOUR - STAGE 3A" SHEET.



PROJECT NO: 9266-11-03	HWY: CTH HH	COUNTY: BROWN	TRAFFIC CONTROL: STAGE 3A	SHEET 37	E

FILE NAME : P:\60543140\900_CAD_GIS\910_CAD\92661102\SHEETSPLAN\025100_TC_S3A.DWG
LAYOUT NAME - Stage 3A
PLOT DATE : 12/3/2019 4:38 PM
PLOT BY : ERICSON, SARAH
PLOT NAME :
PLOT SCALE : 1 IN:100 FT
WISDOT/CADDS SHEET 42

2

STAGE 3B TRAFFIC

STH 172 OFF RAMP:
NIGHT CLOSURE.

STH 172 ON RAMP:
NIGHT CLOSURE.

CTH HH:
THRU ACCESS FOR WESTBOUND TRAFFIC RESTRICTED. THRU ACCESS FOR EASTBOUND TRAFFIC ONLY. DETOUR FOR WESBOUND TRAFFIC IN PLACE.

ASHLAND AVENUE:
NORTHBOUND LEFT TURNS AND SOUTHBOUND RIGHT TURNS RESTRICTED AT CTH HH.

STAGE 3B CONSTRUCTION

STH 172 ON RAMP:
PAVE TOP LIFT OF ASPHALT ON EASTERN SIDE OF STH 172 ON RAMP IN CONJUNCTION WITH WESTBOUND CTH HH OUTSIDE LANE.

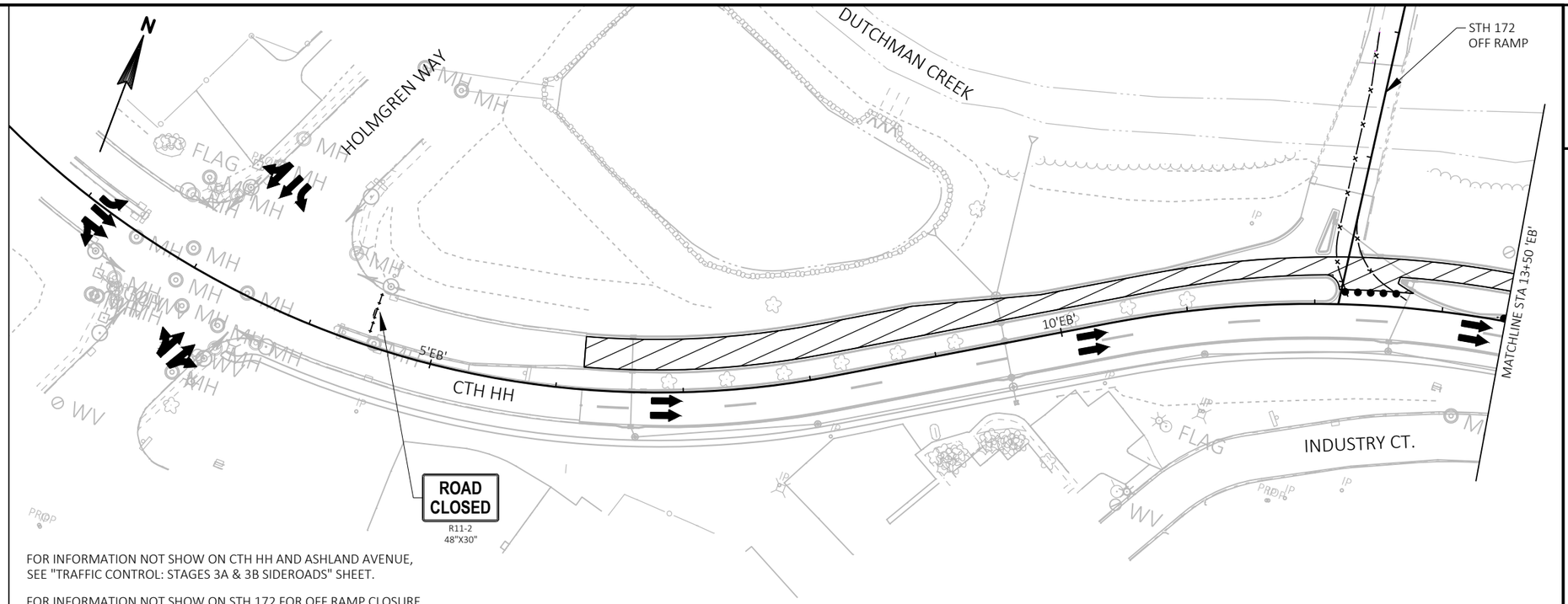
CTH HH:
PAVE TOP LIFT OF ASPHALT ON WESTBOUND CTH HH FROM HOLMGREN WAY TO ASHLAND AVENUE.

TRAFFIC CONTROL LEGEND

- TYPE III BARRICADE
- TYPE III BARRICADE WITH ATTACHED SIGN
- TRAFFIC CONTROL DRUM
- TRAFFIC CONTROL DRUM WITH TYPE C STEADY BURN LIGHT
- SIGN ON PERMANENT POST
- DIRECTION OF TRAFFIC
- REMOVE PAVEMENT MARKING
- WORK ZONE
- ASPHALTIC SURFACE TEMPORARY
- ASPHALTIC CURB

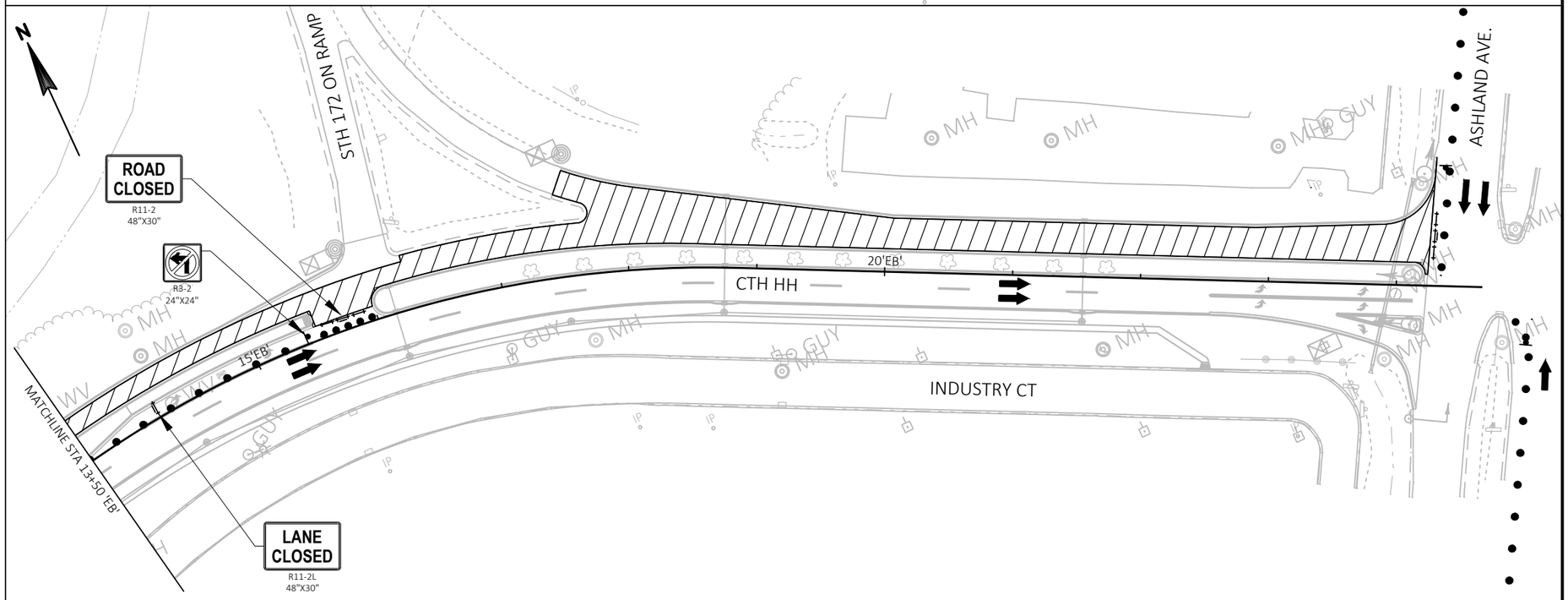
TEMPORARY MARKING LEGEND

- (Y) TEMPORARY MARKING LINE PAINT 4-INCH (YELLOW)
- (W) TEMPORARY MARKING LINE PAINT 4-INCH (WHITE)
- (YT) TEMPORARY MARKING LINE REMOVABLE TAPE 4-INCH (YELLOW)
- (WT) TEMPORARY MARKING LINE REMOVABLE TAPE 4-INCH (WHITE)



FOR INFORMATION NOT SHOW ON CTH HH AND ASHLAND AVENUE, SEE "TRAFFIC CONTROL: STAGES 3A & 3B SIDEROADS" SHEET.

FOR INFORMATION NOT SHOW ON STH 172 FOR OFF RAMP CLOSURE, SEE "TRAFFIC CONTROL: STAGES 3B STH 172 OFF RAMP" SHEET.



PROJECT NO: 9266-11-03	HWY: CTH HH	COUNTY: BROWN	TRAFFIC CONTROL: STAGE 3B	SHEET 38	E

FILE NAME : P:\60543140\900_CAD_GIS\910_CAD\92661102\SHEETSPLAN\025100_TC_S3B.DWG
LAYOUT NAME - Stage 3B
PLOT DATE : 9/23/2019 12:59 PM PLOT BY : ERICSON, SARAH PLOT NAME : PLOT SCALE : 1 IN:100 FT
WISDOT/CADDS SHEET 42

2

2

N

TRAFFIC CONTROL LEGEND

- TYPE III BARRICADE
- TYPE III BARRICADE WTH ATTACHED SIGN
- TRAFFIC CONTROL DRUM
- TRAFFIC CONTROL DRUM WITH TYPE C STEADY BURN LIGHT
- FLASHING ARROW BOARD
- SIGN ON PERMANENT SUPPORT
- SIGN ON TEMPORARY SUPPORT
- REMOVE PAVEMENT MARKING
- DIRECTION OF TRAFFIC
- MB — PORTABLE CHANGEABLE MESSAGE BOARD
- WORK AREA
- ASPHALT SURFACE TEMPORARY
- ASPHALTIC CURB

SIGNAL LEGEND

- R — RED CIRCULAR INDICATOR
- Y — YELLOW CIRCULAR INDICATOR
- G — GREEN CIRCULAR INDICATOR
- R — RED ARROW
- Y — YELLOW ARROW
- FY — FLASHING YELLOW ARROW
- G — GREEN ARROW

TEMPORARY MARKING LEGEND

- WT-8 — TEMPORARY MARKING LINE REMOVABLE TAPE 8-INCH (WHITE)

R3-2
24"X24"

LANE CLOSED
R11-2L
48"X30"

DUTCHMAN CREEK

STAGE 1

10'EB'

HOLMGREN WAY

COVER

LEFT LANE MUST TURN LEFT
R3-7L
30"X30"

R3-2
24"X24"

25' TYP.

CTH HH

ONLY | ONLY
R3-8F
36"X30"

RIGHT LANE MUST TURN RIGHT
R3-7R
30"X30"

WT-8

5'EB'

STAGE 2

SEE "TRAFFIC CONTROL: STAGE 1" AND "TRAFFIC CONTROL: STAGE 2" FOR ADDITIONAL TRAFFIC CONTROL DETAILS ALONG CTH HH AND INDUSTRY COURT

INDUSTRY COURT

R3-1
24"X24"

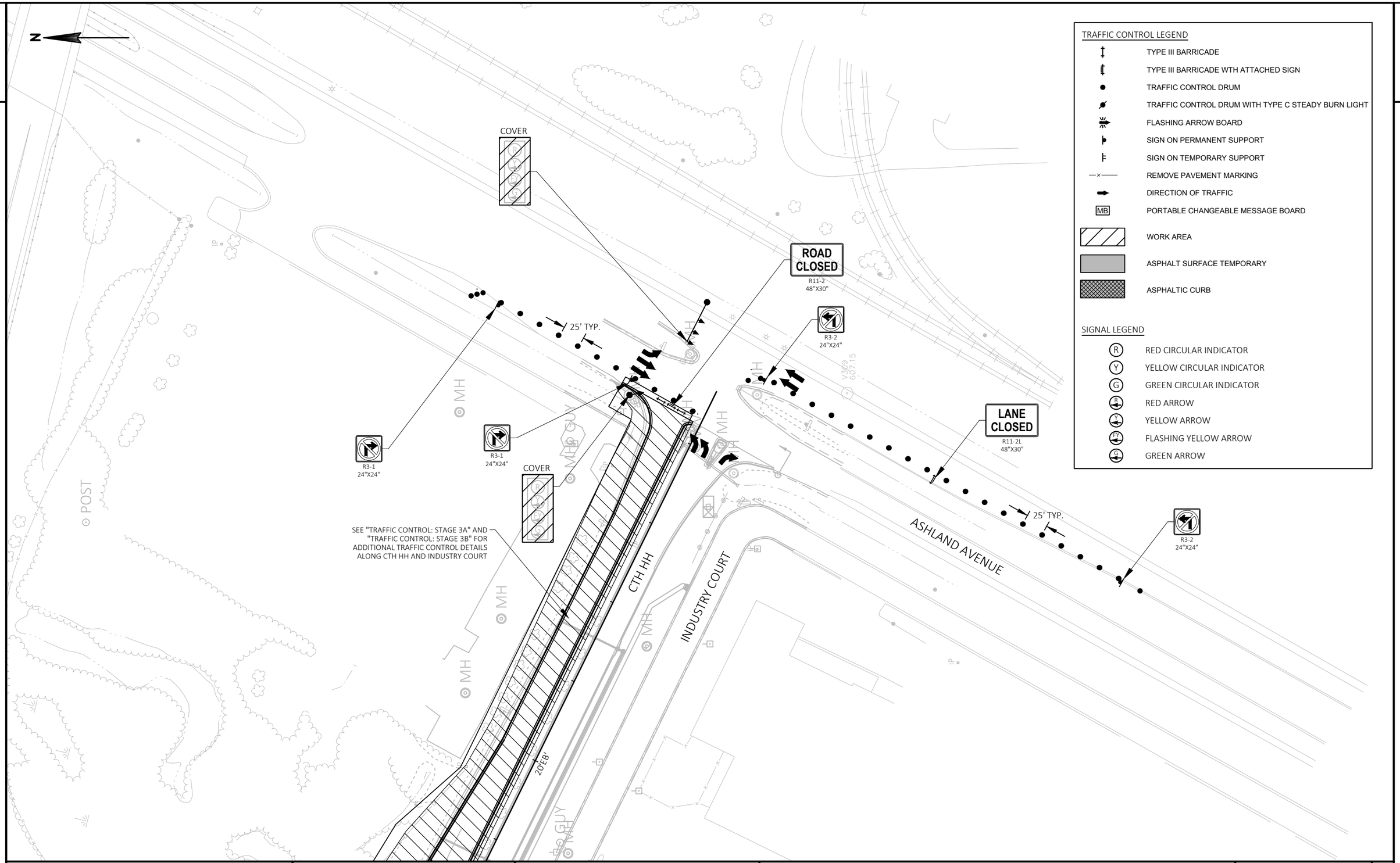
PROJECT NO: 9266-11-03	HWY: CTH HH	COUNTY: BROWN	TRAFFIC CONTROL: STAGES 1 AND 2 SIDEROADS	SHEET 39	E

FILE NAME : P:\60543140\900_CAD_GIS\910_CAD\92661102\SHEETSPLAN\025301_TC.DWG
LAYOUT NAME - 025301_tc

PLOT DATE : 9/23/2019 1:00 PM PLOT BY : ERICSON, SARAH PLOT NAME : PLOT SCALE : ##########

WISDOT/CADDS SHEET 42

2



TRAFFIC CONTROL LEGEND

- TYPE III BARRICADE
- TYPE III BARRICADE WTH ATTACHED SIGN
- TRAFFIC CONTROL DRUM
- TRAFFIC CONTROL DRUM WITH TYPE C STEADY BURN LIGHT
- FLASHING ARROW BOARD
- SIGN ON PERMANENT SUPPORT
- SIGN ON TEMPORARY SUPPORT
- REMOVE PAVEMENT MARKING
- DIRECTION OF TRAFFIC
- MB — PORTABLE CHANGEABLE MESSAGE BOARD
- WORK AREA
- ASPHALT SURFACE TEMPORARY
- ASPHALTIC CURB

SIGNAL LEGEND

- R — RED CIRCULAR INDICATOR
- Y — YELLOW CIRCULAR INDICATOR
- G — GREEN CIRCULAR INDICATOR
- R — RED ARROW
- Y — YELLOW ARROW
- FY — FLASHING YELLOW ARROW
- G — GREEN ARROW

PROJECT NO: 9266-11-03	HWY: CTH HH	COUNTY: BROWN	TRAFFIC CONTROL: STAGE 3A & 3B SIDEROADS	SHEET 40	E

FILE NAME : P:\60543140\900_CAD_GIS\910_CAD\92661102\SHEETSPLAN\025302_TC.DWG
LAYOUT NAME - 025302_tc
PLOT DATE : 9/23/2019 1:01 PM
PLOT BY : ERICSON, SARAH
PLOT NAME :
PLOT SCALE : ############
WISDOT/CADDS SHEET 42

2

N

STH 172 (WESTBOUND)

STH 172 (EASTBOUND)

TO 32
Oneida St
Ashland Ave
EXIT ONLY

COVER WITH
CLOSED
G20-60
108"X24"

MATCHLINE

RAMP CLOSED AHEAD
W20-53A

*PLACE TWO W20-1A SIGNS
1,500' BEFORE W20-53A SIGNS

RAMP CLOSED 1000 FT
W20-53C

ROAD WORK AHEAD
W20-1A

SIGN

TRAFFIC CONTROL LEGEND

- TYPE III BARRICADE
- TYPE III BARRICADE WTH ATTACHED SIGN
- TRAFFIC CONTROL DRUM
- TRAFFIC CONTROL DRUM WITH TYPE C STEADY BURN LIGHT
- FLASHING ARROW BOARD
- SIGN ON PERMANENT SUPPORT
- SIGN ON TEMPORARY SUPPORT
- REMOVE PAVEMENT MARKING
- DIRECTION OF TRAFFIC
- MB — PORTABLE CHANGEABLE MESSAGE BOARD
- WORK AREA
- ASPHALT SURFACE TEMPORARY
- ASPHALTIC CURB

N

TO 32
Oneida St
Ashland Ave
EXIT ONLY

COVER

COVER WITH
CLOSED
G20-61
120"X30"

END ROAD WORK
G20-2A
48"X24"

STH 172 (WESTBOUND)

STH 172 (EASTBOUND)

MATCHLINE

INL

SIGN

COVERING EXISTING EXIT SIGN

ONEIDA STREET

660' TAPER

RAMP CLOSED
R11-2R
48"X30"

RAMP CLOSED
R11-2R
48"X30"

HOLMGREN WAY

STH 172 OFF RAMP

PROJECT NO: 9266-11-03	HWY: CTH HH	COUNTY: BROWN	TRAFFIC CONTROL: STAGE 3B STH 172 OFF RAMP	SHEET 41	E

FILE NAME : P:\60543140\900_CAD_GIS\910_CAD\92661102\SHEETSPLAN\025303_TC.DWG
LAYOUT NAME - Stage 3B (2)
PLOT DATE : 9/23/2019 1:03 PM
PLOT BY : ERICSON, SARAH
PLOT NAME :
PLOT SCALE : 1 IN:100 FT
WISDOT/CADDS SHEET 42

DETOUR NOTES

THE LOCATION AND SPACING OF ALL DETOUR SIGN DEVICES SHALL BE ADJUSTED TO FIT FIELD CONDITIONS AS DIRECTED BY THE ENGINEER.

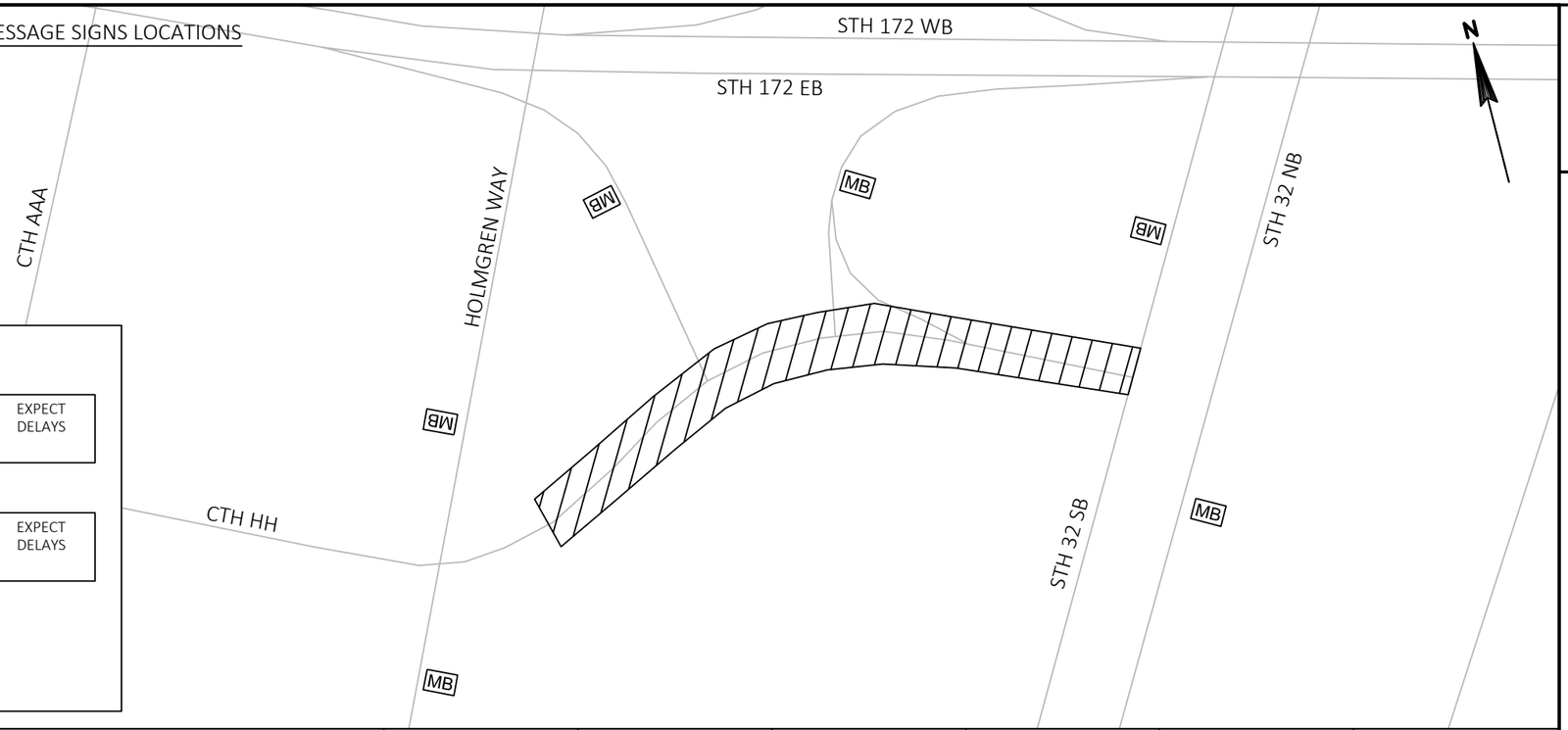
CONFLICTING TRAFFIC SIGNS SHALL BE COVERED AS DIRECTED BY THE ENGINEER. CONFLICTING SIGNS WILL BE COVERED USING THE APPROPRIATE STANDARD BIT ITEM, TRAFFIC CONTROL COVERING SIGNS TYPE II.

TRAFFIC CONTROL SIGNS FIXED MESSAGE SHALL BE FURNISHED BY THE CONTRACTOR AS SHOWN IN THE FIXED MESSAGE SIGN DETAILS.

PLACE PORTABLE CHANGEABLE MESSAGE SIGN (PCMS) BOARDS 7 DAYS PRIOR TO STARTING STAGE 1 AND STAGE 3B. PLACE PCMS BOARDS ON THE FRIDAY PRIOR TO STARTING STAGE 2 AND STAGE 3A, FOR A MAXIMUM OF 7 DAYS.

NOTIFY THE WISCONSIN LANE CLOSURE SYSTEM (WLCS) ACCORDING TO THE SPECIAL PROVISIONS FOR ALL CLOSURES PERTAINING TO STH 32 (ASHLAND AVENUE) AND THE STH 172 EASTBOUND RAMPS.

PORTABLE CHANGEABLE MESSAGE SIGNS LOCATIONS



MESSAGE TO BE DISPLAYED

STAGE 1

CTH HH ROAD WORK	STARTING (DAY) (DATE)	EXPECT DELAYS

STAGE 2 AND STAGE 3A

TRAFFIC PATTERN CHANGE	STARTING (DAY) (DATE)	EXPECT DELAYS

STAGE 3B

172 EAST RAMPS TO CLOSE	(DAY) (DATE) (TIME) PM - (TIME) AM

DETOUR SIGN LEGEND

1 ROAD WORK AHEAD W20-1A
2 ROAD CLOSED 500 FT W20-3D
3 END ROAD WORK G20-2A 48"X24"
4 EAST HH J4-1 24"X36" / DETOUR AHEAD W20-2A
5 EAST EAST HH 172 J4-2 48"X36" / DETOUR AHEAD W20-2A
6 DETOUR TO EAST EAST HH 172 J2-2 48"X72"
7 DETOUR TO EAST EAST HH 172 J2-2 48"X72"
8 DETOUR TO EAST EAST HH 172 J2-2 48"X72"
9 DETOUR TO EAST EAST HH 172 J2-2 48"X72"
10 DETOUR TO EAST EAST HH 172 J2-2 48"X72"
11 DETOUR EAST HH J2-1 24"X72"
12 DETOUR EAST HH J2-1 24"X72"
13 DETOUR TO EAST EAST HH 172 J4-2 48"X48"
14 END DETOUR EAST HH J4-1 24"X60"
15 WEST HH J4-1 24"X36" / DETOUR AHEAD W20-2A
16 WEST EAST HH 172 J4-2 48"X36" / DETOUR AHEAD W20-2A
17 DETOUR TO WEST EAST HH 172 J2-2 48"X72"
18 DETOUR TO WEST EAST HH 172 J2-2 48"X72"
19 DETOUR TO WEST EAST HH 172 J2-2 48"X72"
20 DETOUR TO WEST EAST HH 172 J2-2 48"X72"
21 DETOUR TO WEST EAST HH 172 J2-2 48"X72"
22 DETOUR TO WEST EAST HH 172 J4-2 48"X48"
23 DETOUR WEST HH J2-1 24"X72"
24 DETOUR WEST HH J2-1 24"X72"
25 DETOUR WEST HH J2-1 24"X72"
26 DETOUR WEST HH J2-1 24"X72"
27 DETOUR WEST HH J4-1 24"X48"
28 END DETOUR WEST HH J4-1 24"X60"
29 DETOUR WEST HH J2-1 24"X72"
30 172 J12-1 24"X48"

PROJECT NO: 9266-11-03	HWY: CTH HH	COUNTY: BROWN	DETOUR - GENERAL NOTES	SHEET 42	E

FILE NAME : P:\60543140\900_CAD_GIS\910_CAD\92661102\SHEETSPLAN\027000_DT.DWG
LAYOUT NAME - Plan 1 IN 100 FT
PLOT DATE : 9/30/2019 2:42 PM PLOT BY : ERICSON, SARAH PLOT NAME : PLOT SCALE : ########

2

2

N

CTH YY (PILGRIM WAY)

CTH AAA (ONEIDA STREET)

STH 172 (WESTBOUND)

STH 172 (EASTBOUND)

CTH HH (VANDERPERREN WAY)

HOLMGREN WAY

HANSEN ROAD

SOUTH BROADWAY

STH 32 (SOUTHBOUND)

STH 32 (NORTHBOUND)

FMS-1
VANDERPERREN CLOSED
HWY 172 EAST
USE ASHLAND AVE

FMS-2
ACCESS TO
HWY 172 EAST ONLY
NO THRU TRAFFIC

FMS-3
VANDERPERREN CLOSED
HWY 172 EAST
USE ASHLAND AVE

FMS-4
VANDERPERREN CLOSED
HWY 172 EAST
USE ASHLAND AVE

STAGE 1
CONSTRUCTION
WORK ZONE

COVER

COVER WITH

** ADDITIONAL SIGN COVERING INFORMATION:

M-1 — To Ashland Ave / To Hannigan Way / To Oneida St — COVER

M-2 — Vanderperren Way / Ashland Ave / Arena — COVER

M-3 — COVER

USE SIGN SPACING REQUIREMENTS IN S.D.D.
"BARRICADES AND SIGNS FOR MAINLINE CLOSURES"
AND "DETOUR SIGNING FOR MAINLINE CLOSURES"

DETOUR LEGEND

- (X) TRAFFIC CONTROL SIGNS MOUNTED ON POST
- EXISTING SIGN
- (FMS-X) TRAFFIC CONTROL SIGNS FIXED MESSAGE (SEE SIGN PLATES FOR DETAILS)

PROJECT NO: 9266-11-03	HWY: CTH HH	COUNTY: BROWN	DETOUR - STAGE 1	SHEET 43	E

FILE NAME : P:\60543140\900_CAD_GIS\910_CAD\92661102\SHEETSPLAN\027001_DT.DWG
LAYOUT NAME - 1

PLOT DATE : 9/30/2019 4:09 PM PLOT BY : ERICSON, SARAH PLOT NAME : PLOT SCALE : 1 IN:500 FT

WISDOT/CADDS SHEET 42

2

2

N

CTH YY (PILGRIM WAY)

CTH AAA (ONEIDA STREET)

CTH HH (VANDERPERREN WAY)

STH 172 (WESTBOUND)

STH 172 (EASTBOUND)

HANSEN ROAD

HOLMGREN WAY

SOUTH BROADWAY

STH 32 (SOUTHBOUND)

STH 32 (NORTHBOUND)

STAGE 2
CONSTRUCTION
WORK ZONE

FMS-1
VANDERPERREN CLOSED
HWY 172 EAST
USE ASHLAND AVE
FROM STAGE 1

FMS-2
ACCESS TO
HWY 172 EAST ONLY
NO THRU TRAFFIC
FROM STAGE 1

FMS-3
VANDERPERREN CLOSED
HWY 172 EAST
USE ASHLAND AVE
FROM STAGE 1

FMS-4
VANDERPERREN CLOSED
HWY 172 EAST
USE ASHLAND AVE
FROM STAGE 1

COVER FROM STAGE 1

COVER WITH

** ADDITIONAL SIGN COVERING INFORMATION:

M-1 COVER: To Ashland Ave; To Holmgren Way; To Oneida St

M-2 COVER: Vanderperren Way; Lambeau Field; Arena

M-3 COVER: GAS; DIESEL; COOLING

USE SIGN SPACING REQUIREMENTS IN S.D.D.
"BARRICADES AND SIGNS FOR MAINLINE CLOSURES"
AND "DETOUR SIGNING FOR MAINLINE CLOSURES"

DETOUR LEGEND

- X — TRAFFIC CONTROL SIGNS MOUNTED ON POST
- EXISTING SIGN
- FMS-X — TRAFFIC CONTROL SIGNS FIXED MESSAGE (SEE SIGN PLATES FOR DETAILS)

PROJECT NO: 9266-11-03	HWY: CTH HH	COUNTY: BROWN	DETOUR - STAGE 2	SHEET 44	E

FILE NAME : P:\60543140\900_CAD_GIS\910_CAD\92661102\SHEETSPLAN\027002_DT.DWG
LAYOUT NAME - 1

PLOT DATE : 9/30/2019 4:09 PM PLOT BY : ERICSON, SARAH PLOT NAME : PLOT SCALE : 1 IN:500 FT

WISDOT/CADDS SHEET 42

2

2

CTH YY (PILGRIM WAY)

CTH AAA (ONEIDA STREET)

STH 172 (WESTBOUND)

STH 172 (EASTBOUND)

CTH HH (VANDERPERREN WAY)

HOLMGREN WAY

HANSEN ROAD

STH 32 (SOUTHBOUND)

STH 32 (NORTHBOUND)

SOUTH BROADWAY

N

COVER

COVER FROM STAGE 1

COVER WITH

STAGE 3A CONSTRUCTION WORK ZONE

FMS-5
VANDERPERREN CLOSED
HWY 172 EAST
USE HOLMGREN WAY

** ADDITIONAL SIGN COVERING INFORMATION:

M-1 COVER

M-2 COVER

M-3 COVER

USE SIGN SPACING REQUIREMENTS IN S.D.D.
"BARRICADES AND SIGNS FOR MAINLINE CLOSURES"
AND "DETOUR SIGNING FOR MAINLINE CLOSURES"

DETOUR LEGEND

- X — TRAFFIC CONTROL SIGNS MOUNTED ON POST
- EXISTING SIGN
- FMS-X — TRAFFIC CONTROL SIGNS FIXED MESSAGE (SEE SIGN PLATES FOR DETAILS)

PROJECT NO: 9266-11-03	HWY: CTH HH	COUNTY: BROWN	DETOUR - STAGE 3A	SHEET 45	E

FILE NAME : P:\60543140\900_CAD_GIS\910_CAD\92661102\SHEETSPLAN\027003_DT.DWG
LAYOUT NAME - 1
PLOT DATE : 9/30/2019 4:09 PM
PLOT BY : ERICSON, SARAH
PLOT NAME :
PLOT SCALE : 1 IN:500 FT

2

2

CTH YY (PILGRIM WAY)

CTH AAA (ONEIDA STREET)

STH 172 (WESTBOUND)

STH 172 (EASTBOUND)

CTH HH (VANDERPERREN WAY)

HOLMGREN WAY

HANSEN ROAD

STH 32 (SOUTHBOUND)

STH 32 (NORTHBOUND)

SOUTH BROADWAY

N

COVER FROM STAGE 3A

COVER FROM STAGE 1

COVER

STAGE 3B CONSTRUCTION WORK ZONE

USE SIGN SPACING REQUIREMENTS IN S.D.D.
"BARRICADES AND SIGNS FOR MAINLINE CLOSURES"
AND "DETOUR SIGNING FOR MAINLINE CLOSURES"

DETOUR LEGEND

- X — TRAFFIC CONTROL SIGNS MOUNTED ON POST
- EXISTING SIGN
- FMS-X — TRAFFIC CONTROL SIGNS FIXED MESSAGE (SEE SIGN PLATES FOR DETAILS)

PROJECT NO: 9266-11-03	HWY: CTH HH	COUNTY: BROWN	DETOUR - STAGE 3B	SHEET 46	E

FILE NAME : P:\60543140\900_CAD_GIS\910_CAD\92661102\SHEETSPLAN\027004_DT.DWG
LAYOUT NAME - 1

PLOT DATE : 9/30/2019 4:09 PM PLOT BY : ERICSON, SARAH PLOT NAME : PLOT SCALE : 1 IN:500 FT



CURVE 1

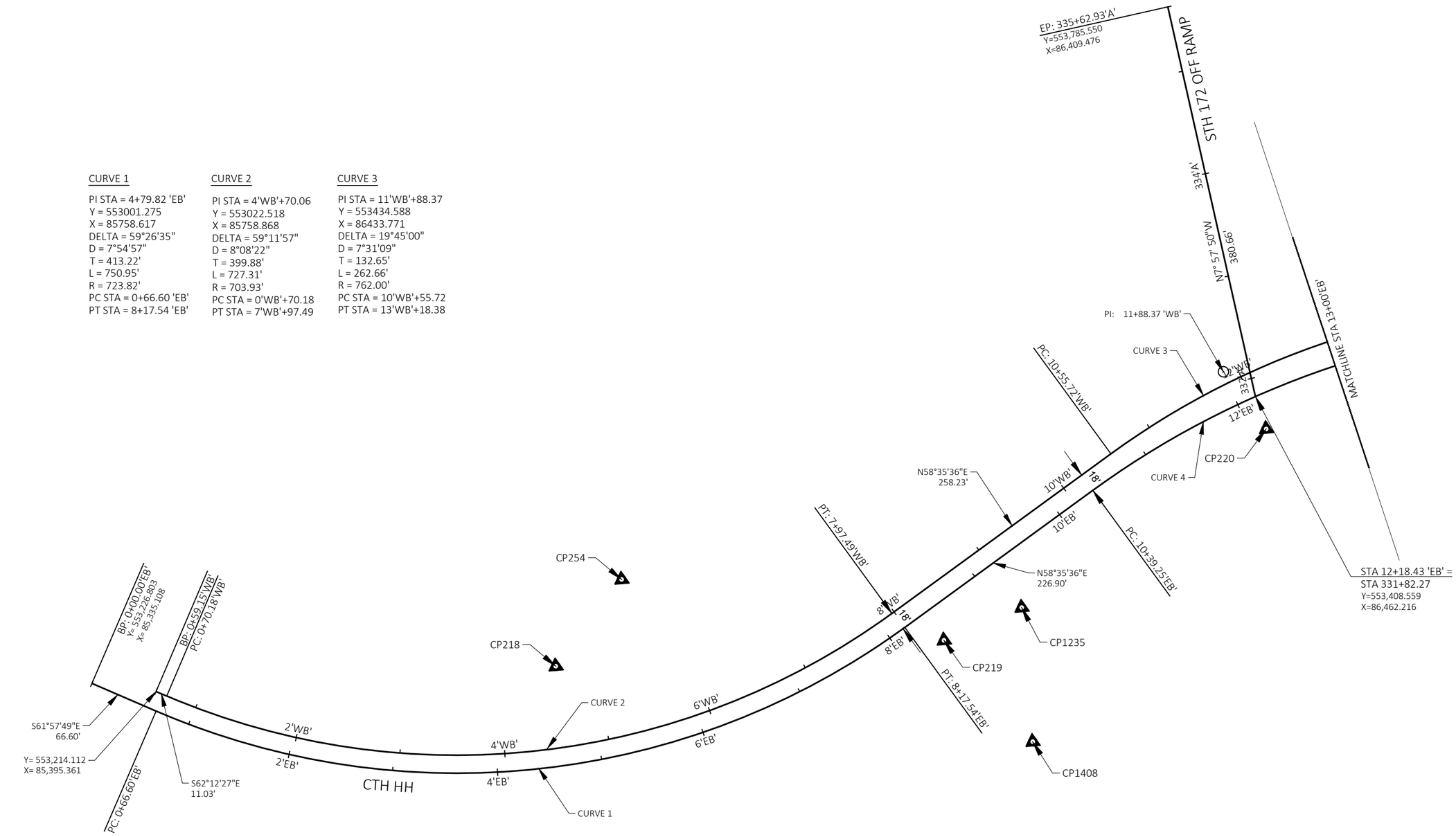
PI STA = 4+79.82 'EB'
Y = 553001.275
X = 85758.617
DELTA = 59°26'35"
D = 7°54'57"
T = 413.22'
L = 750.95'
R = 723.82'
PC STA = 0+66.60 'EB'
PT STA = 8+17.54 'EB'

CURVE 2

PI STA = 4'WB'+70.06
Y = 553022.518
X = 85758.868
DELTA = 59°11'57"
D = 8°08'22"
T = 399.88'
L = 727.31'
R = 703.93'
PC STA = 0'WB'+70.18
PT STA = 7'WB'+97.49

CURVE 3

PI STA = 11'WB'+88.37
Y = 553434.588
X = 86433.771
DELTA = 19°45'00"
D = 7°31'09"
T = 132.65'
L = 262.66'
R = 762.00'
PC STA = 10'WB'+55.72
PT STA = 13'WB'+18.38



NO.	X	Y	DESCRIPTION
CP218	553206.959	85776.861	1/2" REBAR IN GRASS ON HILL
CP219	553201.267	86147.457	1/2" REBAR IN GRASS
CP220	553376.962	86469.878	1/2" REBAR IN GRASS
CP254	553284.239	85846.115	1/2" REBAR
CP1235	553226.368	86223.798	1/2" REBAR
CP1408	553098.050	86223.798	1/2" REBAR

PROJECT NO: 9266-11-03	HWY: CTH HH	COUNTY: BROWN	ALIGNMENT DIAGRAM	SHEET 47	E

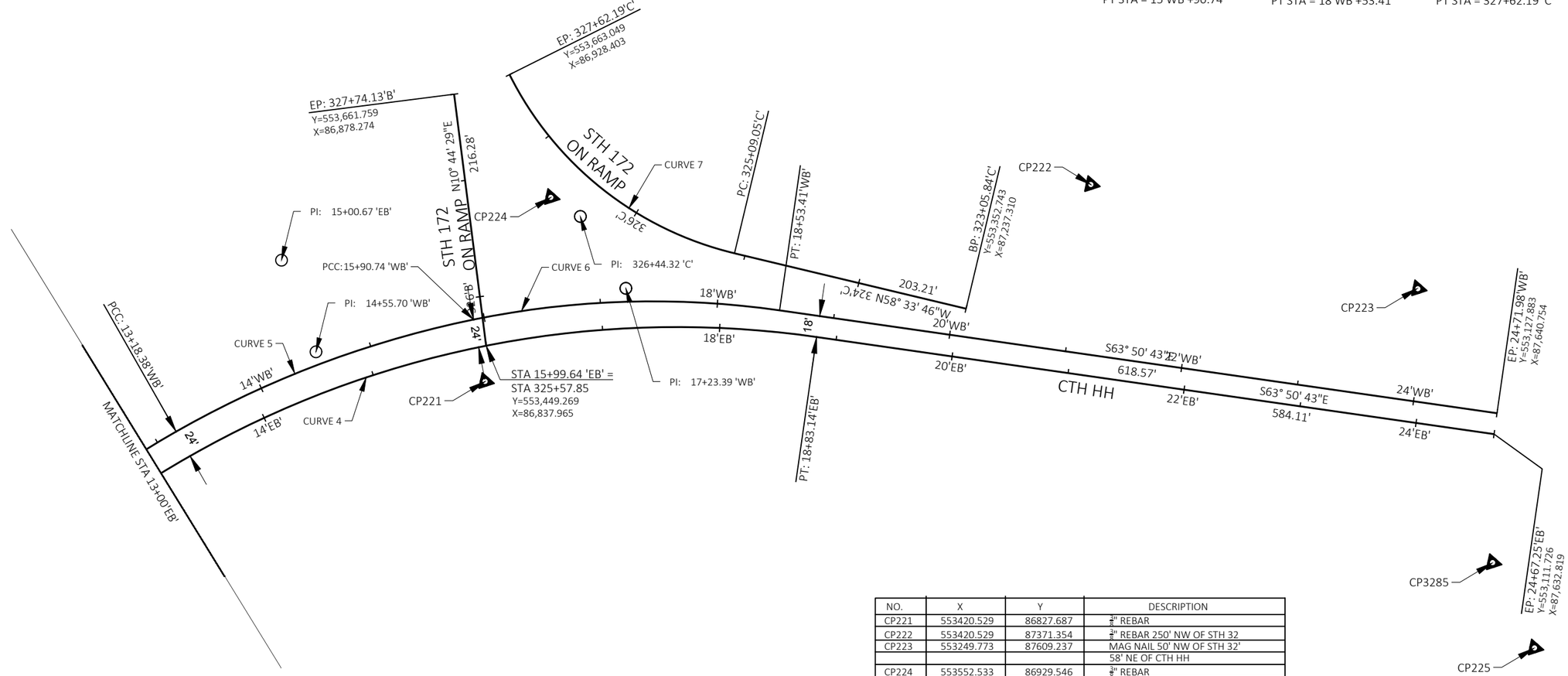
2

CURVE 4
PI STA = 15+00.67 'EB'
Y = 553572.593
X = 86694.342
DELTA = 57°33'41"
D = 6°49'15"
T = 461.43'
L = 843.89'
R = 840.00'
PC STA = 10+39.25 'EB'
PT STA = 18+83.14 'EB'

CURVE 5
PI STA = 14'WB'+55.70
Y = 553489.134
X = 86698.170
DELTA = 18°03'42"
D = 6°37'53"
T = 137.32'
L = 272.36'
R = 864.00'
PC STA = 13'WB'+18.38
PT STA = 15'WB'+90.74

CURVE 6
PI STA = 17'WB'+23.39
Y = 553459.019
X = 86966.452
DELTA = 19°45'00"
D = 7°31'09"
T = 132.65'
L = 262.66'
R = 762.00'
PC STA = 15'WB'+90.74
PT STA = 18'WB'+53.41

CURVE 7
PI STA = 326+44.32 'C'
Y = 553529.283
X = 86948.514
DELTA = 50°00'47"
D = 19°45'26"
T = 135.27'
L = 253.14'
R = 290.00'
PC STA = 325+09.05 'C'
PT STA = 327+62.19 'C'



NO.	X	Y	DESCRIPTION
CP221	553420.529	86827.687	¾" REBAR
CP222	553420.529	87371.354	¾" REBAR 250' NW OF STH 32
CP223	553249.773	87609.237	MAG NAIL 50' NW OF STH 32'
			58' NE OF CTH HH
CP224	553552.533	86929.546	¾" REBAR
CP225	552927.576	87609.263	CUT X ON CURB, 39.7' E OF SIDEWALK,
			26.8' W OF CONC. DRIVEWAY
CP3285	553007.801	87597.766	¾" REBAR

PROJECT NO: 9266-11-03	HWY: CTH HH	COUNTY: BROWN	ALIGNMENT DIAGRAM	SHEET 48	E



CURVE 1
PI STA = 1+35.41 'ANW'
Y = 553445.643
X = 86412.875
DELTA = 51°20'20"
D = 114°35'30"
T = 24.03'
L = 44.80'
R = 50.00'
PC STA = 1+11.38 'ANW'
PT STA = 1+56.19 'ANW'

CURVE 2
PI STA = 0+10.86 'ANE'
Y = 553448.388
X = 86463.658
DELTA = 100°41'43"
D = 1145°54'56"
T = 6.03'
L = 8.79'
R = 5.00'
PC STA = 0+04.83 'ANE'
PT STA = 0+13.62 'ANE'

EP: 1+77.66'ANW'
Y= 553,491.054
X= 86,415.837

N3° 43' 51"E
21.48'

PT: 1+56.19'ANW'

PC: 1+11.38'ANW'

PI: 1+35.41'NWQ'

CURVE 1

1+00'ANW'

N55° 04' 12"E
111.38'

BP: 0+00.00'ANW'
Y= 553,368.108
X= 86,301.855

CTH HH

STH 172 OFF RAMP

EP: 0+22.11'ANE'
Y= 553,462.705
X= 86,461.450

N32°05'15"W
0.50'

N7°57'50"W
8.00'

PI: 0+21.62'ANE'
Y= 553,462.285
X= 86,461.714

S71°31'10"W
4.83'

PT: 0+13.62'ANE'

CURVE 2

PI: 0+10.86'ANE'

12'WB'

332'A'

PC: 0+04.83'ANE'

BP: 0+00.00'ANE'
Y= 553,451.849
X= 86,473.454

12'EB'

PROJECT NO: 9266-11-03	HWY: CTH HH	COUNTY: BROWN	ALIGNMENT DIAGRAM	SHEET 49	E

2

CURVE 3

PI STA = 1+15.28 'BNW'
Y = 553499.950
X = 86833.721
DELTA = 67°54'24"
D = 286°28'44"
T = 13.47'
L = 23.70'
R = 20.00'
PC STA = 1+01.81 'BNW'
PT STA = 1+25.52 'BNW'

CURVE 4

PI STA = 0+19.16 'D'
Y = 553488.935
X = 86865.748
DELTA = 91°45'43"
D = 716°11'50"
T = 8.25'
L = 12.81'
R = 8.00'
PC STA = 0+10.92 'D'
PT STA = 0+23.73 'D'

CURVE 5

PI STA = 0+94.87 'D'
Y = 553476.303
X = 86944.129
DELTA = 10°24'35"
D = 7°20'10"
T = 71.14'
L = 141.89'
R = 781.00'
PC STA = 0+23.73 'D'
PT STA = 1+65.62 'D'

CURVE 6

PI STA = 2+11.66 'D'
Y = 553437.064
X = 87054.541
DELTA = 160°16'58"
D = 716°11'50"
T = 46.03'
L = 22.38'
R = 8.00'
PC STA = 1+65.62 'D'
PT STA = 1+88.00 'D'

CURVE 7

PI STA = 1+98.96 'D'
Y = 553473.147
X = 87010.428
DELTA = 4°02'54"
D = 18°28'57"
T = 10.96'
L = 21.90'
R = 310.00'
PC STA = 1+88.00 'D'
PT STA = 2+09.90 'D'

N

STH 172
ON RAMP

STH 172
ON RAMP

Y= 553,515.131
X= 86,838.825

EP: 1+28.07'BNW'
PT: 1+25.52'BNW'

PC: 1+01.81 'BNW'

N18°35'00"E
2.55'

PI: 11+15.28 'NWQ'

1+00'BNW'

CURVE 3

BP: 0+00.00'BNW'
PI: 0+02.43'BNW'
Y=553,493.040
X= 86,721.080

N86° 29' 24"E
99.39'

N88°48'01"E
2.43'

Y= 553,492.990
X= 86,718.655

N10°55'01"W
10.92'

BP: 0+00.00'D'
Y=553,507.754
X= 86,869.378

PC: 0+10.92'D'

PRC: 0+23.73'D'

CURVE 4

PI: 0+19.16 'D'

326'B'

PI: 0+94.87 'D'

CURVE 5

1+00'D'

CURVE 7

PI: 1'D'+98.96

2+00'D'

EP: 2+09.90'D'
Y=553,480.665
X= 87,002.458

CURVE 6

PRC: 1+88.00'D'

PRC: 1+65.62'D'

PI: 2+11.66 'D'

CTH HH

18

PROJECT NO: 9266-11-03	HWY: CTH HH	COUNTY: BROWN	ALIGNMENT DIAGRAM	SHEET 50	E

FILE NAME : \\USGRB1FP001\ATG\60543140\900_CAD_GIS\910_CAD\92661102\SHEETSPLAN\027203_AD.DWG
LAYOUT NAME - 4

PLOT DATE : 7/16/2019 1:20 PM PLOT BY : ARBUCKLE, ADRIAN PLOT NAME : PLOT SCALE : ##########

WISDOT/CADDS SHEET 42

2

EP: 0+87.40'NW'
Y=553,228.905
X= 87,648.940

PI: 0+75.53'NW'
Y=553,218.634
X= 87,642.987

PT: 0+62.18'NW'

N30°05'51"E
11.87'

N29°40'08"E
13.35'

STH 32

BP: 0+00.00'NW'
Y=553,188.713
X= 87,582.770

PC: 0+00.21'NW'

PI: 0'NW'+38.39

CURVE 8

N18°35'00"E
2.55'

CTH HH WB

22'EB'

BP: -0+00.00'SW'
Y=553,183.002
X= 87,430.961

CTH HH EB

CURVE 9

PI: 0'SW'+68.06

1+00'SW'

PCC: 1+35.05'SW'

STH 32

PI: 1'SW'+56.41

CURVE 10

PT: 1+73.79'SW'

24.86'

S13°38'38"W

EP: 1+98.64'SW'
Y=553,046.367
X= 87,545.830

CURVE 8	CURVE 9	CURVE 10
PI STA = 0+38.39 'NW'	PI STA = 0+68.06 'SW'	PI STA = 1+56.41 'SW'
Y = 553173.560	Y = 553153.003	Y = 553091.275
X = 87618.039	X = 87492.049	X = 87556.731
DELTA = 84°32'02"	DELTA = 17°30'23"	DELTA = 59°58'57"
D = 136°25'07"	D = 12°57'46"	D = 154°51'12"
T = 38.17'	T = 68.06'	T = 21.35'
L = 61.97'	L = 135.05'	L = 38.73'
R = 42.00'	R = 442.00'	R = 37.00'
PC STA = 0+00.21 'NW'	PC STA = -0+00.00 'SW'	PC STA = 1+35.05 'SW'
PT STA = 0+62.18 'NW'	PT STA = 1+35.05 'SW'	PT STA = 1+73.79 'SW'

PROJECT NO: 9266-11-03	HWY: CTH HH	COUNTY: BROWN	ALIGNMENT DIAGRAM	SHEET 51	E

FILE NAME : \\USGRB1FP001\ATG\60543140\900_CAD_GIS\910_CAD\92661102\SHEETSPLAN\027203_AD.DWG
LAYOUT NAME - 5
PLOT DATE : 7/16/2019 1:20 PM
PLOT BY : ARBUCKLE, ADRIAN
PLOT NAME :
PLOT SCALE : ##########
WISDOT/CADDS SHEET 42

9266-11-03

Line	Item	Item Description	Unit	Total	Qty
0002	201.0110	Clearing	SY	80.000	80.000
0004	201.0120	Clearing	ID	141.000	141.000
0006	201.0210	Grubbing	SY	80.000	80.000
0008	201.0220	Grubbing	ID	141.000	141.000
0010	203.0100	Removing Small Pipe Culverts	EACH	2.000	2.000
0012	204.0100	Removing Pavement	SY	13,380.000	13,380.000
0014	204.0150	Removing Curb & Gutter	LF	28.000	28.000
0016	204.0155	Removing Concrete Sidewalk	SY	131.000	131.000
0018	204.0165	Removing Guardrail	LF	40.000	40.000
0020	204.0170	Removing Fence	LF	155.000	155.000
0022	204.0195	Removing Concrete Bases	EACH	2.000	2.000
0024	204.0210	Removing Manholes	EACH	1.000	1.000
0026	204.0220	Removing Inlets	EACH	28.000	28.000
0028	204.0245	Removing Storm Sewer (size) 01. 12-Inch	LF	735.000	735.000
0030	204.0291.S	Abandoning Sewer	CY	11.000	11.000
0032	205.0100	Excavation Common	CY	13,130.000	13,130.000
0034	213.0100	Finishing Roadway (project) 01. 9266-11-03	EACH	1.000	1.000
0036	305.0110	Base Aggregate Dense 3/4-Inch	TON	47.000	47.000
0038	305.0120	Base Aggregate Dense 1 1/4-Inch	TON	5,807.000	5,807.000
0040	311.0110	Breaker Run	TON	8,629.000	8,629.000
0042	416.1010	Concrete Surface Drains	CY	2.000	2.000
0044	465.0125	Asphaltic Surface Temporary	TON	27.000	27.000
0046	465.0310	Asphaltic Curb	LF	68.000	68.000
0048	520.8000	Concrete Collars for Pipe	EACH	2.000	2.000
0050	522.0518	Culvert Pipe Reinforced Concrete Class V 18-Inch	LF	144.000	144.000
0052	522.1018	Apron Endwalls for Culvert Pipe Reinforced Concrete 18-Inch	EACH	2.000	2.000
0054	522.1024	Apron Endwalls for Culvert Pipe Reinforced Concrete 24-Inch	EACH	2.000	2.000
0056	601.0407	Concrete Curb & Gutter 18-Inch Type D	LF	1,566.000	1,566.000
0058	601.0409	Concrete Curb & Gutter 30-Inch Type A	LF	139.000	139.000
0060	601.0411	Concrete Curb & Gutter 30-Inch Type D	LF	5,593.000	5,593.000
0062	602.0405	Concrete Sidewalk 4-Inch	SF	11,067.000	11,067.000
0064	602.0515	Curb Ramp Detectable Warning Field Natural Patina	SF	10.000	10.000
0066	606.0200	Riprap Medium	CY	10.000	10.000
0068	608.0312	Storm Sewer Pipe Reinforced Concrete Class III 12-Inch	LF	324.000	324.000
0070	608.0324	Storm Sewer Pipe Reinforced Concrete Class III 24-Inch	LF	1,724.000	1,724.000
0072	608.0412	Storm Sewer Pipe Reinforced Concrete Class IV 12-Inch	LF	97.000	97.000

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Line	Item	Item Description	Unit	Total	Qty
0074	608.0415	Storm Sewer Pipe Reinforced Concrete Class IV 15-Inch	LF	44.000	44.000
0076	611.0530	Manhole Covers Type J	EACH	10.000	10.000
0078	611.0606	Inlet Covers Type B	EACH	1.000	1.000
0080	611.0624	Inlet Covers Type H	EACH	25.000	25.000
0082	611.2004	Manholes 4-FT Diameter	EACH	9.000	9.000
0084	611.2005	Manholes 5-FT Diameter	EACH	1.000	1.000
0086	611.2006	Manholes 6-FT Diameter	EACH	1.000	1.000
0088	611.3004	Inlets 4-FT Diameter	EACH	3.000	3.000
0090	611.3220	Inlets 2x2-FT	EACH	1.000	1.000
0092	611.3230	Inlets 2x3-FT	EACH	21.000	21.000
0094	611.8120.S	Cover Plates Temporary	EACH	1.000	1.000
0096	612.0106	Pipe Underdrain 6-Inch	LF	3,270.000	3,270.000
0098	619.1000	Mobilization	EACH	1.000	1.000
0100	620.0300	Concrete Median Sloped Nose	SF	240.000	240.000
0102	624.0100	Water	MGAL	186.000	186.000
0104	625.0100	Topsoil	SY	13,500.000	13,500.000
0106	627.0200	Mulching	SY	5,940.000	5,940.000
0108	628.1504	Silt Fence	LF	935.000	935.000
0110	628.1520	Silt Fence Maintenance	LF	935.000	935.000
0112	628.1905	Mobilizations Erosion Control	EACH	6.000	6.000
0114	628.1910	Mobilizations Emergency Erosion Control	EACH	4.000	4.000
0116	628.2006	Erosion Mat Urban Class I Type A	SY	30,600.000	30,600.000
0118	628.7010	Inlet Protection Type B	EACH	8.000	8.000
0120	628.7015	Inlet Protection Type C	EACH	62.000	62.000
0122	628.7504	Temporary Ditch Checks	LF	90.000	90.000
0124	628.7560	Tracking Pads	EACH	8.000	8.000
0126	629.0210	Fertilizer Type B	CWT	9.000	9.000
0128	630.0140	Seeding Mixture No. 40	LB	255.000	255.000
0130	630.0500	Seed Water	MGAL	315.000	315.000
0132	633.5200	Markers Culvert End	EACH	4.000	4.000
0134	634.0614	Posts Wood 4x6-Inch X 14-FT	EACH	8.000	8.000
0136	634.0616	Posts Wood 4x6-Inch X 16-FT	EACH	20.000	20.000
0138	634.0618	Posts Wood 4x6-Inch X 18-FT	EACH	10.000	10.000
0140	637.2210	Signs Type II Reflective H	SF	319.000	319.000
0142	637.2215	Signs Type II Reflective H Folding	SF	12.500	12.500
0144	637.2230	Signs Type II Reflective F	SF	26.000	26.000
0146	638.2102	Moving Signs Type II	EACH	1.000	1.000
0148	638.2602	Removing Signs Type II	EACH	52.000	52.000
0150	638.3000	Removing Small Sign Supports	EACH	45.000	45.000

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Line	Item	Item Description	Unit	Total	Qty
0152	642.5201	Field Office Type C	EACH	1.000	1.000
0154	643.0300	Traffic Control Drums	DAY	9,231.000	9,231.000
0156	643.0420	Traffic Control Barricades Type III	DAY	1,327.000	1,327.000
0158	643.0705	Traffic Control Warning Lights Type A	DAY	2,171.000	2,171.000
0160	643.0715	Traffic Control Warning Lights Type C	DAY	949.000	949.000
0162	643.0800	Traffic Control Arrow Boards	DAY	2.000	2.000
0164	643.0900	Traffic Control Signs	DAY	7,775.000	7,775.000
0166	643.0910	Traffic Control Covering Signs Type I	EACH	7.000	7.000
0168	643.0920	Traffic Control Covering Signs Type II	EACH	26.000	26.000
0170	643.1000	Traffic Control Signs Fixed Message	SF	140.000	140.000
0172	643.1050	Traffic Control Signs PCMS	DAY	168.000	168.000
0174	643.5000	Traffic Control	EACH	1.000	1.000
0176	645.0120	Geotextile Type HR	SY	25.000	25.000
0178	646.1020	Marking Line Epoxy 4-Inch	LF	594.000	594.000
0180	646.3020	Marking Line Epoxy 8-Inch	LF	1,940.000	1,940.000
0182	646.5020	Marking Arrow Epoxy	EACH	14.000	14.000
0184	646.5120	Marking Word Epoxy	EACH	6.000	6.000
0186	646.7220	Marking Chevron Epoxy 24-Inch	LF	127.000	127.000
0188	646.9000	Marking Removal Line 4-Inch	LF	190.000	190.000
0190	646.9100	Marking Removal Line 8-Inch	LF	124.000	124.000
0192	649.0105	Temporary Marking Line Paint 4-Inch	LF	531.000	531.000
0194	649.0150	Temporary Marking Line Removable Tape 4-Inch	LF	463.000	463.000
0196	649.0805	Temporary Marking Stop Line Paint 18-Inch	LF	38.000	38.000
0198	650.4000	Construction Staking Storm Sewer	EACH	36.000	36.000
0200	650.5500	Construction Staking Curb Gutter and Curb & Gutter	LF	7,298.000	7,298.000
0202	650.6000	Construction Staking Pipe Culverts	EACH	2.000	2.000
0204	650.9000	Construction Staking Curb Ramps	EACH	1.000	1.000
0206	650.9910	Construction Staking Supplemental Control (project) 01. 9266-11-03	LS	1.000	1.000
0208	650.9920	Construction Staking Slope Stakes	LF	3,876.000	3,876.000
0210	652.0225	Conduit Rigid Nonmetallic Schedule 40 2-Inch	LF	40.000	40.000
0212	652.0235	Conduit Rigid Nonmetallic Schedule 40 3-Inch	LF	380.000	380.000
0214	652.0615	Conduit Special 3-Inch	LF	90.000	90.000
0216	652.0800	Conduit Loop Detector	LF	200.000	200.000
0218	653.0164	Pull Boxes Non-Conductive 24x42-Inch	EACH	4.000	4.000
0220	653.0905	Removing Pull Boxes	EACH	2.000	2.000
0222	654.0101	Concrete Bases Type 1	EACH	1.000	1.000
0224	655.0230	Cable Traffic Signal 5-14 AWG	LF	145.000	145.000
0226	655.0240	Cable Traffic Signal 7-14 AWG	LF	680.000	680.000
0228	655.0260	Cable Traffic Signal 12-14 AWG	LF	1,060.000	1,060.000

9266-11-03

Line	Item	Item Description	Unit	Total	Qty
0230	655.0305	Cable Type UF 2-12 AWG Grounded	LF	550.000	550.000
0232	655.0515	Electrical Wire Traffic Signals 10 AWG	LF	1,350.000	1,350.000
0234	655.0700	Loop Detector Lead In Cable	LF	2,580.000	2,580.000
0236	655.0800	Loop Detector Wire	LF	420.000	420.000
0238	657.0100	Pedestal Bases	EACH	1.000	1.000
0240	657.0420	Traffic Signal Standards Aluminum 13-FT	EACH	1.000	1.000
0242	658.0173	Traffic Signal Face 3S 12-Inch	EACH	1.000	1.000
0244	658.5069	Signal Mounting Hardware (location) 01. STH 32 & Vanderperren Way	LS	1.000	1.000
0246	690.0150	Sawing Asphalt	LF	15.000	15.000
0248	690.0250	Sawing Concrete	LF	548.000	548.000
0250	ASP.1T0A	On-the-Job Training Apprentice at $5.00/HR	HRS	1,200.000	1,200.000
0252	ASP.1T0G	On-the-Job Training Graduate at $5.00/HR	HRS	1,200.000	1,200.000
0254	SPV.0060	Special 01. Storm Sewer Plug	EACH	1.000	1.000
0256	SPV.0060	Special 02. Adjusting Sanitary Manhole Covers	EACH	7.000	7.000
0258	SPV.0060	Special 03. Adjusting Water Valve Boxes	EACH	3.000	3.000
0260	SPV.0060	Special 04. Covering Traffic Signal Head	EACH	7.000	7.000
0262	SPV.0090	Special 01. Turtle Fence Salvaged	LF	250.000	250.000
0264	SPV.0105	Special 01. Remove Signal	LS	1.000	1.000
0266	SPV.0170	Special 01. Proof Rolling	STA	40.000	40.000

3

CLEARING AND GRUBBING

STAGE	STATION	LOCATION	201.0110 CLEARING (SY)	201.0120 CLEARING (ID)	201.0210 GRUBBING (SY)	201.0220 GRUBBING (ID)
1	9+06.07 'WB'	LT	-	3	-	3
	9+44.00 'WB'	RT	-	6	-	6
	9+90.00 'WB'	LT	80	-	80	-
STAGE 1 SUBTOTALS			80	9	80	9
3A	10+14.30 'WB'	LT	-	12	-	12
	20+34.70 'WB'	LT	-	12	-	12
	20+52.97 'WB'	LT	-	12	-	12
	20+72.94 'WB'	LT	-	12	-	12
	20+94.19 'WB'	LT	-	12	-	12
	21+12.06 'WB'	LT	-	12	-	12
	21+33.15 'WB'	LT	-	12	-	12
	21+93.10 'WB'	LT	-	12	-	12
	22+14.06 'WB'	LT	-	12	-	12
	22+30.88 'WB'	LT	-	12	-	12
	22+52.84 'WB'	LT	-	12	-	12
STAGE 3A SUBTOTALS			0	132	0	132
TOTALS			**80**	**141**	**80**	**141**

REMOVING STORM SEWER AND CULVERTS

STAGE	STATION	LOCATION	204.0245 REMOVING STORM SEWER (12-INCH) (LF)	203.0100 REMOVING SMALL PIPE CULVERTS (EACH)
1	9+56.11 'EB'	LT	169	-
STAGE 1 SUBTOTALS			169	0
2	6+59.56 'EB'	LT/RT	35	-
	9+56.11 'EB'	RT	24	-
	12+70.00 'EB'	LT/RT	101	-
	16+15.00 'EB'	LT/RT	132	-
	18+77'EB'	LT/RT	38	-
	21+53'EB'	LT/RT	37	-
	23+82'EB'	LT/RT	-	1
STAGE 2 SUBTOTALS			367	1
3A	6+45'WB'	LT/RT	35	-
	332+52'A'	RT	48	-
	18+82'EB'	LT/RT	113	-
	21+57'WB'	LT/RT	86	-
	24+00'WB'	LT/RT	-	1
STAGE 3A SUBTOTALS			199	1
TOTALS			**735**	**2**

REMOVING MANHOLES & INLETS

STAGE	STATION	OFFSET	LOCATION	204.0210 REMOVING MANHOLES (EACH)	204.0220 REMOVING INLETS (EACH)
1	9+56.11 'EB'	1 RT	EB	-	1
	9+38.03 'WB'	1' LT	WB	-	1
	9+38.03 'WB'	24' LT	WB	-	1
STAGE 1 SUBTOTALS				0	3
2	6+59.56 'EB'	24' RT	EB	-	1
	6+59.56 'EB'	1' RT	EB	-	1
	9+56.11 'EB'	24 RT	EB	-	1
	332+47.72'A'	15' LT	OFF RAMP	-	1
	12+61.39 'EB'	24' RT	EB	-	1
	12+68.79 'EB'	9' LT	EB	-	1
	12+70.74 'WB'	5' RT	WB	-	1
	12+44.17 'WB'	19' LT	WB	-	1
	15+44'EB'	14' LT	EB	1	-
	16+15.00 'EB'	24' RT	EB	-	1
	16+15.00 'EB'	8' LT	EB	-	1
	16+12.77 'WB'	5' RT	WB	-	1
	18+77'EB'	25 RT	EB	-	1
	18+77'EB'	1.5 RT	EB	-	1
	21+53'EB'	24 RT	EB	-	1
	21+53'EB'	1 RT	EB	-	1
STAGE 2 SUBTOTALS				1	15
3A	6+45.43 'WB'	1' LT	WB	-	1
	6+45.43 'WB'	24' LT	WB	-	1
	6+45.43 'WB'	7' RT	MED	-	1
	324+42.08 'C'	3' RT	ON RAMP	-	1
	16+26.71 'EB'	13' LT	MED	-	1
	18+81.72 'WB'	0' RT	WB	-	1
	18+77'EB'	10' LT	MED	-	1
	21+57.82 'WB'	7' RT	MED	-	1
	21+57.82 'WB'	1' LT	WB	-	1
	21+57.82 'WB'	25' LT	WB	-	1
STAGE 3A SUBTOTALS				0	10
TOTALS				**1**	**28**

3

*****ALL ITEMS CATEGORY 0010 UNLESS OTHERWISE NOTED.**

REMOVALS

STAGE	STATION	-	STATION	LOCATION	204.0100 REMOVING PAVEMENT (SY)	204.0150 REMOVING CURB & GUTTER (LF)	204.0155 REMOVING CONCRETE SIDEWALK (SY)	204.0165 REMOVING GUARDRAIL (LF)	204.0170 REMOVING FENCE (LF)	204.0291.S ABANDONING SEWER (CY)	SPV.0060.01 STORM SEWER PLUG (EACH)	COMMENTS
1	9+40'EB'	-	9+74'EB'	RT	20	-	-	-	-	-	-	
	9+22'WB'	-	9+56'WB'	LT	110	-	-	-	-	-	-	
STAGE 1 SUBTOTALS					130	0	0	0	0	0	0	
2	6+21'EB'	-	24+18'EB'	EB & WB LANES	8,010	-	-	-	-	-	-	
	22+38'EB'	-	22+66'EB'	INDUSTRY CT	-	28	-	-	-	-	-	
	332+25'A'	-	332+49'A'	ISLAND	-	-	11	-	-	-	-	
	332+47'A'	-	332+73'A'	LT	-	-	-	-	-	1	-	35 LF OF 12" SSPRC
	12+67 'EB'	-	12+75 'EB'	MEDIAN	-	-	10	-	-	-	-	
	14+05 'EB'	-	15+47 'EB'	MEDIAN	-	-	85	-	-	-	-	
	23+86 'EB'	-	24+20 'EB'	28' RT	-	-	25	-	-	-	-	
STAGE 2 SUBTOTALS					8,010	28	131	0	0	1	0	
3A	4+50 'EB'	-	6+60 'EB'	LT	-	-	-	-	-	10	-	204 LF OF 15" SSPRC
	16+25 'EB'	-	24+24 'EB'	RT	980	-	-	-	-	-	-	
	16+23 'WB'	-	24+30 'WB'	LT	930	-	-	-	-	-	-	
	16+27 'WB'	-	24+29 'WB'	LT/RT	3,330	-	-	-	-	-	-	
	18+17 'WB'	-	19+59 'WB'	50-90' LT	-	-	-	-	155	-	-	
	12+13 'WB'	-	12+13 'WB'	50' LT	-	-	-	-	-	-	1	
	23+58 'WB'	-	23+97 'WB'	48' LT	-	-	-	40	-	-	-	
STAGE 3A SUBTOTALS					5,240	0	0	40	155	10	1	
TOTALS					**13,380**	**28**	**131**	**40**	**155**	**11**	**1**	

FINISHING ROADWAY

PROJECT ID	213.0100 FINISHING ROADWAY (EACH)
9266-11-03	1
TOTAL	**1**

CONCRETE SURFACE DRAINS

STAGE	STATION	LOCATION	416.1010 CONCRETE SURFACE DRAINS (CY)
2	332+30'A'	RT	2
STAGE 2 SUBTOTAL			2
TOTAL			**2**

BASE AGGREGATE ITEMS

STAGE	STATION	-	STATION	LOCATION	305.0110 BASE AGGREGATE DENSE 3/4-INCH (TON)	* 305.0120 BASE AGGREGATE DENSE 1 1/4-INCH (TON)	311.0110 BREAKER RUN (TON)	624.0100 WATER (MGAL)
2	3+48'EB'	-	22+61'EB'	SIDEWALK	--	283	--	4
	6+21'EB'	-	24+24'EB'	EB/WB	10	3,140	5,404	128
STAGE 2 SUBTOTALS					10	3,423	5,404	133
3A	6+08'WB'	-	11+85'WB'	LT/RT	37	1,203	1,216	37
	16+27'WB'	-	24+29'WB'	LT/RT	--	1,116	2,009	17
STAGE 3A SUBTOTALS					37	2,319	3,225	54
TOTALS					**47**	**5,742**	**8,629**	**186**

*ADDITIONAL QUANTITIES LISTED ELSEWHERE

FIELD OFFICE

PROJECT ID	642.5201 FIELD OFFICE TYPE C (EACH)
9266-11-03	1
TOTAL	**1**

*****ALL ITEMS CATEGORY 0010 UNLESS OTHERWISE NOTED.**

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EARTHWORK SUMMARY

Division	From/To Station	Location	205.0100 Common Excavation (1)		Salvaged/ Unusable Pavement Material (4)	Available Material (5)	Reduced EBS in Fill (6)	Expanded EBS Backfill (7)	Unexpanded Fill	Expanded Fill (8)	Mass Ordinate +/- (9)	Waste	Comment:
			Cut (2)	EBS Excavation (3)			Factor 0.80	Factor 1.30		Factor 1.25			
Stage 2													
	06+21'EB'/24+22'EB'	CTH HH Eastbound	5,103	0	0	5,103	0	0	1,379	1,724	3,379	3,379	
	11+85'WB'/16+27'WB'	CTH HH Westbound	699	0	0	699	0	0	235	294	404	404	
	332+24'A'/332+70'A'	STH 172 Off Ramp	111	0	0	111	0	0	0	0	111	111	
	00+06'ANE'/00+22'ANE'	STH 172 Off Ramp NE Curb Return	12	0	0	12	0	0	0	0	12	12	
	00+03'BNW'/01+27'BNW'	STH 172 On Ramp NW Curb Return	102	0	0	102	0	0	202	252	-150	0	
	00+00'D'/00+24'D'	STH 172 On Ramp Middle	31	0	0	31	0	0	0	0	31	31	
	00+01'SW'/01+98'SW'	Ashland Avenue SW Curb Return	210	0	0	210	0	0	1	1	210	210	
	00+00'S'/02+85'S'	Holmgren Way Sidewalk	49	0	0	49	0	0	3	4	45	45	
		Undistributed EBS Excavation		1,263									
Stage 2 Subtotal			6,317	1,263	0	6,317	1,011	8,213	1,820	2,275	4,042	4,193	
Stage 3A													
	06+08'WB'/24+30'WB'	CTH HH Westbound	2,763	0	0	2,763	0	0	530	663	2,100	2,100	
	00+31'ANW'/01+76'ANW'	STH 172 Off Ramp NW Curb Return	169	0	0	169	0	0	36	45	124	124	
	323+08'C'/325+69'C'	STH 172 On Ramp East	469	0	0	469	0	0	262	327	141	141	
	00+24'D'/02+10'D'	STH 172 On Ramp Middle	117	0	0	117	0	0	0	0	117	117	
	00+01'NW'/00+76'NW'	Ashland Avenue NW Curb Return	54	0	0	54	0	0	3	4	50	50	
		Undistributed EBS Excavation		1,978									
Stage 3A Subtotal			3,571	1,978	0	3,571	1,582	4,643	831	1,039	2,532	2,532	
Grand Total			9,889	3,241	0	9,889	2,593	12,855	2,651	3,314	6,574	6,725	
Total Common Exc			13,130										

Notes:

(1) Common Excavation is the sum of the Cut and EBS Excavation columns. Item number 205.0100

(2) Salvaged/Unsuable Pavement Material is included in Cut.

(3) EBS Excavation to be backfilled with Cut.

(4) Salvaged/Unusable Pavement Material

(5) Available Material = Cut - Salvaged/Unusuable Pavement Material

(6) Reduced EBS in Fill - Excavated EBS material is usuable in Fills outside the 1:1 slope. EBS in Fill Reduction factor = 0.8

(7) Expanded EBS Backfill - This is to be filled with Cut material. EBS Backfill Factor = 1.3.

(8) Expanded Fill Factor = 1.25

Depending on selections:

Expanded Fill = (Unexpanded Fill - Rock* Rock Factor - Reduced Marsh - Reduced EBS) * Fill Factor

Or Expanded Fill = (Unexpanded Fill - Rock * Rock Factor - Reduced EBS) * Fill Factor

Or Expanded Fill = (Unexpanded Fill - Rock * Rock Factor - Reduced Marsh) * Fill Factor

Or Expanded Fill = (Unexpanded Fill - Rock * Rock Factor) * Fill Factor

(9) The Mass Ordinate + or - Qty calculated for the Division. Plus quantity indicates an excess of material within the Division. Minus indicates a shortage of material within the Division.

*****ALL ITEMS CATEGORY 0010 UNLESS OTHERWISE NOTED.**

TEMPORARY ASPHALTIC ITEMS

STAGE	STATION	-	STATION	LOCATION	305.0120 * BASE AGGREGATE DENSE 1 1/4-INCH (TON)	465.0125 ASPHALTIC SURFACE TEMPORARY (TON)	465.0310 ASPHALTIC CURB (LF)
1	9+22'WB'	-	9+56'WB'	LT/RT	65	27	68
STAGE 1 SUBTOTALS					65	27	68
TOTALS					**65**	**27**	**68**

*ADDITIONAL QUANTITIES LISTED ELSEWHERE

CURB & GUTTER ITEMS

STAGE	STATION	-	STATION	LOCATION	601.0407 CONCRETE CURB & GUTTER 18-INCH TYPE D (LF)	601.0409 CONCRETE CURB & GUTTER 30-INCH TYPE A (LF)	601.0411 CONCRETE CURB & GUTTER 30-INCH TYPE D (LF)	620.0300 CONCRETE MEDIAN SLOPED NOSE (SF)	650.5500 CONSTRUCTION STAKING CURB GUTTER AND CURB & GUTTER (LF)
1	9+22.19'WB'	-	9+55.84'WB'	LT	-	-	34	-	34
	9+22.21'WB'	-	9+55.86'WB'	RT	-	-	34	-	34
	9+40.23'EB'	-	9+73.88'EB'	LT	-	-	34	-	34
STAGE 1 SUBTOTALS					0	0	102	0	102
2	6+20.73'EB'	-	9+40.23'EB'	LT	-	-	632	-	632
	6+20.73'EB'	-	22+54.64'EB'	RT	1,538	-	-	-	1,538
	9+73.88'EB'	-	11+84.79'WB'	MEDIAN	-	-	279	-	279
	332+17.75'A'	-	332+47.07'A'	ISLAND	-	68	-	-	68
	332+47.07'A'	-	332+54.02'A'	ISLAND	-	-	-	43	-
	12+20.47'WB'	-	15+90.03'WB'	LT	-	-	389	-	389
	12+52.31'WB'	-	12+59.10'WB'	RT	-	-	-	50	-
	12+60.26'WB'	-	15+40.93'WB'	RT	-	-	281	-	281
	12+70.10'EB'	-	15+45.17'EB'	LT	-	-	281	-	281
	15+45.17'EB'	-	15+52.02'EB'	LT	-	-	-	91	-
	16+27.63'WB'	-	24+22.19'EB'	MEDIAN	-	-	874	-	874
	22+38.31'EB'	-	22+66.80'EB'	INDUSTRY CT	28	-	-	-	28
	22+54.64'EB'	-	24+17.87'EB'	RT	-	-	201	-	201
	23+85.40'EB'	-	23+91.95'EB'	ISLAND	-	-	-	56	-
	23+91.95'EB'	-	24+21.70'EB'	ISLAND		71	-	-	71
STAGE 2 SUBTOTALS					1,566	139	2,937	240	4,642
3A	6+07.54'WB'	-	9+22.21'WB'	RT	-	-	316	-	316
	6+07.59'WB'	-	9+22.19'WB'	LT	-	-	315	-	315
	9+55.84'WB'	-	11+78.35'WB'	LT	-	-	223	-	223
	9+55.86'WB'	-	11+84.79'WB'	RT	-	-	229	-	229
	16+27.63'WB'	-	24+22.19'WB'	RT	-	-	795	-	795
	17+56.89'WB'	-	24+33.98'WB'	LT	-	-	677	-	677
STAGE 3A SUBTOTALS					0	0	2,554	0	2,554
TOTALS					**1,566**	**139**	**5,593**	**240**	**7,298**

SIDEWALK ITEMS

STAGE	STATION	-	STATION	LOCATION	602.0405 CONCRETE SIDEWALK 4-INCH (SF)	602.0515 CURB RAMP DETECTABLE WARNING FIELD NATURAL PATINA (SF)
2	3+48.65'EB'	-	22+52.31'EB'	RT	9,546	-
	332+20.02'A'	-	332+47.07'A'	ISLAND	107	-
	13+94.78'EB'	-	15+45.17'EB'	MEDIAN	1,228	-
	23+91.95'EB'	-	24+19.20'EB'	ISLAND	186	-
	22+49.81'EB'	-	22+54.81'EB'	RAMP	-	10
STAGE 2 SUBTOTALS					11,067	10
TOTALS					**11,067**	**10**

PIPE UNDERDRAIN

STAGE	STATION	-	STATION	LOCATION	612.0106 PIPE UNDERDRAIN 6-INCH (LF)
2	6+59'EB'	-	9+55'EB'	RT	296
	9+55'EB'	-	12+60'EB'	RT	305
	12+60'EB'	-	16+15'EB'	RT	355
	16+15'EB'	-	18+75'EB'	RT	260
	18+75'EB'	-	21+55'EB'	RT	280
	21+55'EB'	-	24+18'EB'	RT	292
	12+49'EB'	-	15+89'EB'	LT	365
STAGE 2 SUBTOTAL					2,153
3A	6+59'EB'	-	11+88'EB'	LT	535
	18+75'EB'	-	21+55'EB'	LT	280
	21+55'EB'	-	24+27'EB'	LT	302
STAGE 3A SUBTOTAL					1,117
TOTAL					**3,270**

NOTE: TRACER WIRE IS INCIDENTAL TO PIPE UNDERDRAIN ITEM

*****ALL ITEMS CATEGORY 0010 UNLESS OTHERWISE NOTED.**

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CULVERT PIPES

STAGE	FROM	-	TO	522.0518 CULVERT PIPE REINFORCED CONCRETE CLASS V 18-INCH (LF)	650.6000 CONSTRUCTION STAKING PIPE CULVERTS (EACH)	520.8000 CONCRETE COLLARS FOR PIPE (EACH)	* JOINT TIES (EACH)	INLET ELEVATION	DISCHARGE ELEVATION	SLOPE FT/FT
2	COLLAR	-	23	72	1	1	6	603.41	603.14	0.0037
STAGE 2 SUBTOTALS				72	1	1	6			
3A	24	-	COLLAR	72	1	1	6	603.67	603.41	0.0037
STAGE 3A SUBTOTALS				72	1	1	6			
TOTALS				**144**	**2**	**2**	**12**			

* NON-BID ITEM: FOR INFORMATION ONLY

CULVERT ENDWALLS

STAGE	STRUCTURE	STATION	OFFSET	522.1018 APRON ENDWALLS FOR CULVERT PIPE REINFORCED CONCRETE 18-INCH (EACH)	522.1024 APRON ENDWALLS FOR CULVERT PIPE REINFORCED CONCRETE 24-INCH (EACH)	633.5200 MARKERS CULVERT END (EACH)	INVERT ELEVATION
1	EW-9	9+17.89	92.6' LT	-	1	1	584.43
	EW-10	10+05.10	149.5' LT	-	1	1	587.43
STAGE 1 SUBTOTALS				0	2	2	
2	23	23+82.77	63.3' RT	1	-	1	603.67
STAGE 2 SUBTOTALS				1	0	1	
3A	24	24+10.04	77.2' LT	1	-	1	603.14
STAGE 3A SUBTOTALS				1	0	1	
TOTALS				**2**	**2**	**4**	

*****ALL ITEMS CATEGORY 0010 UNLESS OTHERWISE NOTED.**

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STORM SEWER PIPES

STAGE	FROM	-	TO	608.0312 STORM SEWER PIPE REINFORCED CONCRETE CLASS III 12-INCH (LF)	608.0324 STORM SEWER PIPE REINFORCED CONCRETE CLASS III 24-INCH (LF)	608.0412 STORM SEWER PIPE REINFORCED CONCRETE CLASS IV 12-INCH (LF)	608.0415 STORM SEWER PIPE REINFORCED CONCRETE CLASS IV 15-INCH (LF)	JOINT TIES* (EACH)	INLET ELEVATION	DISCHARGE ELEVATION	SLOPE FT/FT
1	EW-9	-	9.1	-	67	-	-	6	584.76	584.43	0.005
	9.1	-	9.2	-	20	-	-	-	584.96	584.86	0.005
	9.2	-	9.3	-	15	-	-	-	585.14	585.06	0.005
	EW-10	-	9.1	-	123	-	-	6	588.00	587.43	0.005
STAGE 1 SUBTOTALS				0	225	0	0	12			
2	9.3	-	9.4	-	29	-	-	-	585.39	585.24	0.005
	9.4	-	9	-	7	-	-	-	585.64	585.49	0.021
	9	-	11	-	152	-	-	-	586.65	585.74	0.006
	12	-	14	-	167	-	-	-	589.65	587.72	0.012
	16	-	17	-	129	-	-	-	592.92	591.63	0.010
	18	-	21	-	280	-	-	-	598.02	594.20	0.014
	6.4	-	6.3	-	-	-	28	-	586.70	586.62	0.003
	12	-	12.5	8	-	-	-	-	588.77	588.72	0.006
	12.5	-	12.4	44	-	-	-	-	589.07	588.87	0.005
	12.4	-	12.3	8	-	-	-	-	589.20	589.17	0.004
	12.3	-	12.2	33	-	-	-	-	589.45	589.30	0.005
	16	-	16.3	8	-	-	-	-	592.66	592.63	0.004
	16.3	-	16.2	29	-	-	-	-	592.86	592.76	0.003
	16.2	-	16.1	21	-	-	-	-	593.03	592.96	0.003
	18	-	18.4	7	-	-	-	-	595.26	595.20	0.009
	18.4	-	18.3	29	-	-	-	-	595.51	595.36	0.005
	18.3	-	18.2	15	-	-	-	-	595.68	595.61	0.005
	21.4	-	21.3	29	-	-	-	-	599.37	599.20	0.006
	21.3	-	21.2	15	-	-	-	-	599.55	599.47	0.005
	12.1	-	12.2	-	-	45	-	-	589.75	589.55	0.004
	6.5	-	6.3	-	-	9	-	-	586.98	586.95	0.003
	21.4	-	21	-	-	-	7	-	598.95	598.87	0.011
	9	-	9.5	12	-	-	-	-	586.80	586.74	0.005
	9	-	8	-	156	-	-	-	586.05	585.74	0.002
	8	-	6	-	143	-	-	-	586.44	586.15	0.002
	6	-	6.4	-	-	-	9	-	586.52	586.48	0.004
	11	-	12	-	144	-	-	-	587.62	586.75	0.006
	14	-	16	-	172	-	-	-	591.53	589.80	0.010
	17	-	18	-	120	-	-	-	594.10	593.02	0.009
STAGE 2 SUBTOTALS				258	1,499	54	44	0			
3A	6.3	-	6.2	-	-	16	-	-	587.00	586.95	0.003
	6.2	-	6.1	-	-	27	-	-	587.18	587.10	0.003
	18.2	-	18.1	39	-	-	-	-	595.98	595.78	0.005
	21.2	-	21.1	27	-	-	-	-	599.78	599.65	0.005
STAGE 3A SUBTOTALS				66	0	43	0	0			
TOTALS				**324**	**1,724**	**97**	**44**	**12**			

* NON-BID ITEM: FOR INFORMATION ONLY

*****ALL ITEMS CATEGORY 0010 UNLESS OTHERWISE NOTED.**

STORM SEWER STRUCTURES

STAGE	STRUCTURE	STATION	* OFFSET	611.0530 MANHOLE COVERS TYPE J (EACH)	611.0606 INLET COVERS TYPE B (EACH)	611.0624 INLET COVERS TYPE H (EACH)	611.2004 MANHOLES 4-FT DIAMETER (EACH)	611.2005 MANHOLES 5-FT DIAMETER (EACH)	611.2006 MANHOLES 6-FT DIAMETER (EACH)	611.3004 INLETS 4-FT DIAMETER (EACH)	611.3220 INLETS 2x2-FT (EACH)	611.3230 INLETS 2X3-FT (EACH)	611.8120.S COVER PLATES TEMPORARY (EACH)	650.4000 CONSTRUCTION STAKING STORM SEWER (EACH)	RIM ELEVATION	** INVERT ELEVATION	*** DEPTH (FT)
1	9.1	9+55.00	36.9' LT	-	-	1	-	-	1	-	-	-	1	1	592.79	584.76	7.03
	9.2	9+55.00	16.5' LT	-	-	1	-	-	-	1	-	-	-	1	592.61	584.96	6.89
	9.3	9+55.00	1.5' LT	-	-	1	-	-	-	1	-	-	-	1	592.60	585.14	6.72
STAGE 1 SUBTOTALS				0	0	3	0	0	1	2	0	0	1	3			
2	6	6+63.00	35' RT	1	-	-	1	-	-	-	-	-	-	1	591.36	586.44	3.93
	6.3	6+59.50	1' LT	-	-	1	-	-	-	-	-	1	-	1	590.67	586.70	3.16
	6.4	6+59.50	27' RT	-	-	1	-	-	-	-	-	1	-	1	590.62	586.52	3.29
	6.5	6+68.51	1.1' LT	-	-	1	-	-	-	-	-	1	-	1	590.73	586.98	2.91
	8	8+00.00	35' RT	1	-	-	1	-	-	-	-	-	-	1	592.32	586.05	5.28
	9	9+55.00	35' RT	1	-	-	-	1	-	-	-	-	-	1	592.48	585.64	5.85
	9.4	9+55.00	27.5' RT	-	-	1	-	-	-	1	-	-	-	1	592.56	585.39	6.43
	9.5	9+55.00	47.5' RT	-	1	-	-	-	-	-	1	-	-	1	590.78	586.80	2.81
	11	11+10.00	35' RT	1	-	-	1	-	-	-	-	-	-	1	593.77	586.65	6.12
	12	12+60.00	35' RT	1	-	-	1	-	-	-	-	-	-	1	594.76	587.62	6.15
	12.1	12+14.69	64.4' LT	-	-	1	-	-	-	-	-	1	-	1	594.14	589.75	3.55
	12.2	12+49.11	38.7' LT	-	-	1	-	-	-	-	-	1	-	1	594.82	589.45	4.54
	12.3	12+76.43	22.3' LT	-	-	1	-	-	-	-	-	1	-	1	594.71	589.20	4.67
	12.4	12+74.77	14.2' LT	-	-	1	-	-	-	-	-	1	-	1	594.96	589.07	5.06
	12.5	12+60.00	27.5' RT	-	-	1	-	-	-	-	-	1	-	1	594.58	588.77	4.97
	14	14+35.00	35' RT	1	-	-	1	-	-	-	-	-	-	1	595.93	589.65	5.29
	16	16+15.00	35' RT	1	-	-	1	-	-	-	-	-	-	1	597.77	591.53	5.25
	16.1	16+15.00	22.5' LT	-	-	1	-	-	-	-	-	1	-	1	597.63	593.03	3.77
	16.2	16+15.00	1.5' LT	-	-	1	-	-	-	-	-	1	-	1	597.63	592.86	3.94
	16.3	16+15.00	27.5' RT	-	-	1	-	-	-	-	-	1	-	1	597.59	592.66	4.10
	17	17+50.00	35' RT	1	-	-	1	-	-	-	-	-	-	1	599.45	592.92	5.54
	18	18+75.00	35' RT	1	-	-	1	-	-	-	-	-	-	1	601.52	594.10	6.44
	18.3	18+75.00	1.5' LT	-	-	1	-	-	-	-	-	1	-	1	600.86	595.50	4.53
	18.4	18+75.00	27.5' RT	-	-	1	-	-	-	-	-	1	-	1	600.82	595.26	4.73
	21	21+55.00	35' RT	1	-	-	1	-	-	-	-	-	-	1	604.99	598.02	5.98
	21.3	21+55.00	1.5' LT	-	-	1	-	-	-	-	-	1	-	1	604.33	599.37	4.13
	21.4	21+55.00	27.5' RT	-	-	1	-	-	-	-	-	1	-	1	604.29	599.10	4.36
STAGE 2 SUBTOTALS				10	1	16	9	1	0	1	1	15	0	27			
3A	6.1	6+59.50	43.1' LT	-	-	1	-	-	-	-	-	1	-	1	590.73	587.18	2.72
	6.2	6+59.50	16.6' LT	-	-	1	-	-	-	-	-	1	-	1	590.75	587.00	2.92
	18.1	18+75.00	55.7' LT	-	-	1	-	-	-	-	-	1	-	1	600.60	595.98	3.79
	18.2	18+75.00	16.5' LT	-	-	1	-	-	-	-	-	1	-	1	600.95	595.68	4.44
	21.1	21+55.00	43.5' LT	-	-	1	-	-	-	-	-	1	-	1	604.40	599.78	3.78
	21.2	21+55.00	16.5' LT	-	-	1	-	-	-	-	-	1	-	1	604.40	599.55	4.02
STAGE 3A SUBTOTALS				0	0	6	0	0	0	0	0	6	0	6			
TOTALS				**10**	**1**	**25**	**9**	**1**	**1**	**3**	**1**	**21**	**1**	**36**			

REMARKS
* STATIONS AND OFFSETS ARE TO CENTER OF STRUCTURE
** FOR STRUCTURES WITH SUMPS, THE INVERT ELEVATION IS THE ELEVATION OF THE SUMP. FOR STRUCTURES WITHOUT SUMPS, THE INVERT ELEVATION IS THE ELEVATION OF THE LOWEST PIPE FLOW LINE
*** DEPTH = RIM ELEV - TOP OF STRUCTURE BASE ELEV - COVER HEIGHT - 6 -INCH ADJUSTMENT RING HEIGHT

*****ALL ITEMS CATEGORY 0010 UNLESS OTHERWISE NOTED.**

ADJUSTING MANHOLE COVERS AND WATER VALVES

STAGE	STATION	LOCATION	* SPV.0060.01 ADJUSTING SANITARY MANHOLE COVERS (EACH)	* SPV.0060.02 ADJUSTING WATER VALVE BOXES (EACH)
2	3+68'EB'	30' RT	1	-
	13+44'EB'	54' LT	-	1
	14+23'EB'	72' LT	1	-
	14+23'EB'	49' LT	1	-
	14+26'EB'	5' LT	-	1
	23+92'EB'	59' RT	1	-
	23+99'EB'	8' RT	-	1
	24+10'EB'	9' LT	1	-
	24+16'EB'	32' RT	1	-
STAGE 2 SUBTOTALS			6	3
3A	24+14'EB'	80' LT	1	-
STAGE 3A SUBTOTALS			1	0
TOTALS			**7**	**3**

* ITEMS ARE CATEGORY 0020

EROSION CONTROL ITEMS

STAGE	628.1504 SILT FENCE (LF)	628.1520 SILT FENCE MAINTENANCE (LF)	628.2006 EROSION MAT URBAN CLASS I TYPE A (SY)	606.0200 RIPRAP MEDIUM (CY)	645.0120 GEOTEXTILE TYPE HR (SY)	628.7010 INLET PROTECTION TYPE B (EACH)	628.7015 INLET PROTECTION TYPE C (EACH)	628.7504 TEMPORARY DITCH CHECKS (LF)	628.7560 TRACKING PADS (EACH)
1	270	270	86	9	18	--	7	--	--
2	400	400	4,157	--	--	7	47	24	--
3A	115	115	23,587	--	--	--	6	48	--
UNDISTRIBUTED	150	150	2,770	1	7	1	2	18	8
TOTALS	**935**	**935**	**30,600**	**10**	**25**	**8**	**62**	**90**	**8**

FINISHING

LOCATION	625.0100 TOPSOIL (SY)	627.0200 MULCHING (SY)	629.0210 FERTILIZER TYPE B (CWT)	630.0140 SEEDING MIXTURE NO. 40 (LB)	630.0500 SEED WATER (MGAL)
STAGE 1	290	200	0.5	10	10
STAGE 2	7,400	3,240	4.5	135	170
STAGE 3A	4,580	1,960	3.0	85	105
UNDISTRIBUTED	1,230	540	1.0	25	30
TOTALS	**13,500**	**5,940**	**9.0**	**255**	**315**

MOBILIZATION

PROJECT ID	619.1000 MOBILIZATION (EACH)	628.1905 MOBILIZATIONS EROSION CONTROL (EACH)	628.1910 MOBILIZATIONS EMERGENCY EROSION CONTROL (EACH)
9266-11-03	1	6	4
TOTALS	**1**	**6**	**4**

*****ALL ITEMS CATEGORY 0010 UNLESS OTHERWISE NOTED.**

3

SIGNING ITEMS

SIGN NO.	SIGN CODE	SIGN LT	SIGN SIZE WIDTH X HEIGHT (IN)	634.0614 POSTS WOOD 4X6-INCH X 14-FT (EACH)	634.0616 POSTS WOOD 4X6-INCH X 16-FT (EACH)	634.0618 POSTS WOOD 4X6-INCH X 18-FT (EACH)	637.2210 SIGNS TYPE II REFLECTIVE H (SF)	637.2215 SIGNS TYPE II REFLECTIVE H FOLDING (SF)	637.2230 SIGNS TYPE II REFLECTIVE F (SF)	638.2102 MOVING SIGNS TYPE II (EACH)	REMARKS
1-1	R3-8W	VARIOUS ONLY	54 X 30	-	1	-	11.25	-	-	-	ON SAME POST AS 1-4
1-2	R2-1	SPEED LIMT 35	24 X 30	-	1	-	5.00	-	-	-	
1-3	R5-1A	WRONG WAY	36 X 24	1	-	-	6.00	-	-	-	
1-4	R5-1A	WRONG WAY	36 X 24	1	-	-	6.00	-	-	-	
1-5	J1-1	JCT 172	24 X 39	-	1	-	6.50	-	-	-	
1-6	R3-7R	RIGHT LANE MUST TURN RIGHT	30 X 30	-	1	-	6.25	-	-	-	
2-1	W3-3	SIGNAL AHEAD	36 X 36	-	1	-	-	-	9.00	-	
2-2	R6-1R	ONE WAY	36 X 12	-	1	-	3.00	-	-	-	WITH SIGN 2-6
2-3	R6-3A	DIVIDED HIGHWAY	30 X 24	-	-	-	5.00	-	-	-	WITH SIGN 2-6
2-4	R6-2L	ONE WAY	24 X 30	-	1	-	5.00	-	-	-	
2-5	R1-1	STOP	30 X 30	-	1	-	6.25	-	-	-	
2-6	R1-1	STOP	30 X 30	-	1	-	6.25	-	-	-	
2-7	R5-1	DO NOT ENTER	30 X 30	-	-	-	6.25	-	-	-	ON SAME POST AS 2-6
2-8	W12-1D	DOUBLE DOWN ARROWS	24 X 24	1	-	-	-	-	4.00	-	
2-9	R3-2	NO LEFT TURN	24 X 24	1	-	-	4.00	-	-	-	
2-10	R5-1	DO NOT ENTER	30 X 30	-	-	-	6.25	-	-	-	ON SAME POST AS 2-9
2-11	R1-1	STOP	30 X 30	-	1	-	6.25	-	-	-	
2-12	R5-1	DO NOT ENTER	30 X 30	-	-	-	6.25	-	-	-	ON SAME POST AS 2-11
2-13	R6-2R	ONE WAY	24 X 30	-	1	-	5.00	-	-	-	
2-14	R5-1	DO NOT ENTER	30 X 30	-	-	-	6.25	-	-	-	
2-15	R3-1	NO RIGHT TURN	24 X 24	-	-	-	4.00	-	-	-	ON SAME POST AS 2-14
2-16	J3-1	EAST STH 172 AHEAD LEFT	24 X 57	-	-	1	9.50	-	-	-	
2-17	R2-1	SPEED LIMIT 45	24 X 30	-	1	-	5.00	-	-	-	
SUBTOTALS				4	12	1	125.25	0.00	13.00	0	

***ALL ITEMS CATEGORY 0010 UNLESS OTHERWISE NOTED.

3

SIGNING ITEMS (CONTINUED)

SIGN NO.	SIGN CODE	SIGN LT	SIGN SIZE WIDTH X HEIGHT (IN)	634.0614 POSTS WOOD 4X6-INCH X 14-FT (EACH)	634.0616 POSTS WOOD 4X6-INCH X 16-FT (EACH)	634.0618 POSTS WOOD 4X6-INCH X 18-FT (EACH)	637.2210 SIGNS TYPE II REFLECTIVE H (SF)	637.2215 SIGNS TYPE II REFLECTIVE H FOLDING (SF)	637.2230 SIGNS TYPE II REFLECTIVE F (SF)	638.2102 MOVING SIGNS TYPE II (EACH)	REMARKS
3-1	R5-1A	WRONG WAY	36 X 24	1	-	-	6.00	-	-	-	
3-2	J3-2	EAST STH 172 TO IH 43 LEFT	48 X 57	-	-	1	19.00	-	-	-	
3-3	J1-1	JCT 32	24 X 39	-	1	-	6.50	-	-	-	
3-4	R2-1	SPEED LIMIT 35	24 X 30	-	1	-	5.00	-	-	-	
3-5	J3-2	EAST STH 172 TO IH 43 DIAGONAL RT	48 X 57	-	-	1	19.00	-	-	-	
3-6	W13-3	RAMP 30 MPH	24 X 30	-	1	-	5.00	-	-	-	
3-7	W3-3	SIGNAL AHEAD	36 X 36	-	1	-	-	-	9.00	-	
4-1	J3-1	WEST CTH HH AHEAD	24 X 57	-	-	1	9.50	-	-	-	
4-2	J3-2	EAST STH 172 TO IH 43 DIAGONAL RT	48 X 57	-	-	1	19.00	-	-	-	
4-3	J3-1	SOUTH 32 AHEAD RT	24 X 57	-	-	1	9.50	-	-	-	
4-4	J3-1	NORTH 32 AHEAD LT	24 X 57	-	-	1	9.50	-	-	-	
4-5	R3-33R	RIGHT LANE MUST EXIT	78 X 36	-	2	-	19.50	-	-	-	
4-6	R3-8R	VARIOUS ONLY	54 X 30	-	1	-	11.25	-	-	-	
4-7	R5-1A	WRONG WAY	36 X 24	1	-	-	6.00	-	-	-	
4-8	R5-1A	WRONG WAY	36 X 24	1	-	-	6.00	-	-	-	
4-9	J2-2	WEST CTH HH LT/EAST 172 RT	48 X 57	-	-	1	19.00	-	-	-	
4-10	W12-1D	DOUBLE DOWN ARROWS	24 X 24	1	-	-	-	-	4.00	-	
4-11	R1-2	YIELD	36 X 31	-	1	-	7.75	-	-	-	
4-12	R6-2R	ONE WAY	24 X 30	-	-	-	5.00	-	-	-	ON SIGNAL
4-13	R1-1F	FOLDING STOP	30 X 30	-	-	-	-	6.25	-	-	ON SIGNAL
4-14	R1-1F	FOLDING STOP	30 X 30	-	-	-	-	6.25	-	-	ON SIGNAL
4-15	R5-1	DO NOT ENTER	30 X 30	-	-	-	6.25	-	-	-	ON SIGNAL
4-16	R4-7	KEEP RIGHT	24 X 30	-	-	-	5.00	-	-	-	ON SIGNAL
4-17	-	LOCAL DESTINATION	-	-	-	2	-	-	-	1	
SUBTOTALS				4	8	9	193.75	12.50	13.00	1	
TOTALS				**8**	**20**	**10**	**319.00**	**12.50**	**26.00**	**1**	

*****ALL ITEMS CATEGORY 0010 UNLESS OTHERWISE NOTED.**

3

3

REMOVING SIGNING ITEMS

LOCATION	STA	OFF	SIGN CODE	SIGN MESSAGE	638.2602 REMOVING SIGNS TYPE II (EACH)	638.3000 REMOVING SMALL SIGN SUPPORTS (EACH)
EASTBOUND	7+60 EB	RT	J4-1	JCT 172	1	1
	9+25 EB	RT	R7	NO PARKING	1	1
	10+60 EB	RT	R5-1A	WRONG WAY	1	1
	11+75 EB	RT	R5-1	DO NOT ENTER	1	1
	12+00 EB	RT	R6-2	ONE WAY	1	1
	12+05 EB	LT	R3-2	NO LEFT TURN	1	1
	-	LT	R7	NO PARKING	1	-
	12+70 EB	LT	R4-7	KEEP RIGHT	1	1
	14+10 EB	LT	J4-1	EAST 172 AHEAD/RT	1	1
	15+50 EB	LT	J4-2	EAST 172/TO 57	1	1
	16+15 EB	LT	J4-1	TO 43	1	1
	-	LT	R3-2	NO LEFT TURN	1	-
	16+20 EB	RT	J4-1	JCT 32	1	1
	17+90 EB	RT	W3-3	TRAFFIC SIGNAL AHEAD	1	1
	19+50 EB	RT	-	NO PARKING/WRONG WAY/DESTINATION	3	2
	21+60 EB	RT	-	LOCAL DESTINATION	-	2
	22+70 EB	LT	J4-1	NORTH 32	1	1
	22+75 EB	RT	J4-1	SOUTH 32	1	1
	-	RT	R5-1	DO NOT ENTER	1	-
	23+90 EB	RT	W12-1D	DOUBLE DIAMOND ARROWS	1	1
	24+00 EB	RT	R1-2	YIELD	1	1
	24+15 EB	RT	R6-3	DIVIDED HIGHWAY	1	1
	-	RT	R5-1	DO NOT ENTER	1	-
	24+15 EB	LT	R4-7	KEEP RIGHT	1	1
SUBTOTALS					25	22

*****ALL ITEMS CATEGORY 0010 UNLESS OTHERWISE NOTED.**

3

REMOVING SIGNING ITEMS (CONTINUED)

LOCATION	STA	OFF	SIGN CODE	SIGN MESSAGE	638.2602 REMOVING SIGNS TYPE II (EACH)	638.3000 REMOVING SMALL SIGN SUPPORTS (EACH)
WESTBOUND	7+45 WB	LT	R5-1A	WRONG WAY	1	1
	-	LT	R7	NO PARKING	1	-
	8+70 WB	LT	W3-3	SIGNAL AHEAD	1	1
	9+20 WB	LT	R7	NO PARKING	1	1
	10+20 WB	LT	R2-1	SPEED LIMIT	1	1
	12+25 WB	LT	R5-1	DO NOT ENTER	1	1
	-	LT	R6-2	ONE WAY	1	-
	12+60 WB	LT	R5-1	DO NOT ENTER	1	1
	-	LT	R3-1	NO RIGHT TURN	1	-
	14+25 WB	LT	R5-1A	WRONG WAY	1	1
	16+75 WB	LT	R5-1	DO NOT ENTER	1	1
	17+50 WB	LT	J4-2	EAST 172/TO 57	1	1
	20+40 WB	LT	J4-2	EAST 172/TO 43	1	1
	22+75 WB	LT	J4-1	JCT 172	1	1
	23+75 WB	LT	-	RED DIAMONDS	3	3
	24+15 WB	LT	R3-1	NO RIGHT TURN	1	1
	24+20 WB	LT	R5-1	DO NOT ENTER	1	1
OFF RAMP	332+30 A	LT	R5-1	DO NOT ENTER	1	1
	-	LT	R6-2	ONE WAY	1	-
	332+35 A	LT	R1-1	STOP	1	1
	332+50 A	LT	R1-1	STOP	1	1
ON RAMP	326+30 B	LT	R5-57	PEDESTRIAN/BICYCLE PROHIBITED	1	1
	326+30 B	RT	W13-3	RAMP SPEED LIMIT	1	1
	324+85 C	RT	W13-3	RAMP SPEED LIMIT	1	1
	325+70 C	RT	R5-57	PEDESTRIAN/BICYCLE PROHIBITED	1	1
SUBTOTALS					27	23
TOTALS					**52**	**45**

*****ALL ITEMS CATEGORY 0010 UNLESS OTHERWISE NOTED.**

3

TRAFFIC CONTROL COVERING SIGNS

STAGE	643.0910 TRAFFIC CONTROL COVERING SIGNS TYPE I (EACH)	643.0920 TRAFFIC CONTROL COVERING SIGNS TYPE II (EACH)
1	2	10
2	2	1
3A	2	8
3B	1	7
TOTALS	**7**	**26**

NOTE: ONE CYCLE FOR EACH COVERING

TRAFFIC CONTROL - DRUMS, BARRICADES, WARNING LIGHTS, AND SIGNS

STAGE	DAYS IN SERVICE	643.0300 DRUMS NO.	643.0300 DRUMS (DAYS)	643.0420 BARRICADES TYPE III NO.	643.0420 BARRICADES TYPE III (DAYS)	643.0705 WARNING LIGHTS TYPE A NO.	643.0705 WARNING LIGHTS TYPE A (DAYS)	643.0715 WARNING LIGHTS TYPE C NO.	643.0715 WARNING LIGHTS TYPE C (DAYS)	643.0800 TRAFFIC CONTROL ARROW BOARDS NO.	643.0800 TRAFFIC CONTROL ARROW BOARDS (DAYS)	643.0900 SIGNS NO.	643.0900 SIGNS (DAYS)	643.1000 SIGNS FIXED MESSAGE (SF)	* 643.1050 SIGNS PCMS NO.	* 643.1050 SIGNS PCMS (DAYS)
1	7	60	420	14	98	23	161	11	77	0	0	65	455	96	6	42
2	73	85	6,205	8	584	14	1,022	6	438	0	0	72	5,256	-	6	42
3A	42	60	2,520	15	630	23	966	10	420	0	0	48	2,016	44	6	42
3B	1	86	86	15	15	22	22	14	14	2	2	48	48	-	6	42
TOTALS			**9,231**		**1,327**		**2,171**		**949**		**2**		**7,775**	**140**		**168**

* TO BE PLACED 7 DAYS PRIOR TO STARTING STAGE 1 AND STAGE 3B. TO BE PLACED THE FRIDAY PRIOR TO STARTING STAGE 2 AND STAGE 3A, FOR A MAXIMUM OF 7 DAYS.

3

MARKING LINE

STA	-	STA	646.1020 MARKING LINE EPOXY 4-INCH SOLID YELLOW (LF)	646.1020 MARKING LINE EPOXY 4-INCH DASHED WHITE (LF)	646.1020 MARKING LINE EPOXY 4-INCH SOLID WHITE (LF)	646.3020 MARKING LINE EPOXY 8-INCH DASHED WHITE (LF)	646.3020 MARKING LINE EPOXY 8-INCH SOLID WHITE (LF)	646.5020 MARKING ARROW EPOXY TYPE 2 (EACH)	646.5120 MARKING WORD EPOXY (EACH)	646.7220 MARKING CHEVRON EPOXY 24-INCH (LF)
3+92.22 'WB'	-	24+17.92 'WB'	-	-	122	90	1,385	5	3	127
6+20.70 'EB'	-	24+13.19 'EB'	-	406	-	-	385	7	1	-
332+35.55 'A'	-	332+86.38 'A'	36	-	30	-	80	2	2	-
SUBTOTALS			36	406	152	90	1,850	14	6	127
TOTALS				**594**			**1,940**	**14**	**6**	**127**

TEMPORARY MARKING LINE

STAGE	649.0105 TEMPORARY MARKING LINE PAINT 4-INCH YELLOW (LF)	649.0150 TEMPORARY MARKING LINE REMOVABLE TAPE 4-INCH YELLOW (LF)	649.0150 TEMPORARY MARKING LINE REMOVABLE TAPE 4-INCH WHITE (LF)	646.9000 MARKING REMOVAL LINE 4-INCH (LF)	646.9100 MARKING REMOVAL LINE 8-INCH (LF)	649.0805 TEMPORARY MARKING STOP LINE PAINT 18-INCH WHITE (LF)
1	531	-	-	50	124	-
2	-	167	-	140	-	-
3A	-	84	212	-	-	38
SUBTOTALS	531	251	212	190	124	38
TOTALS	**531**	**463**		**190**	**124**	**38**

*****ALL ITEMS CATEGORY 0010 UNLESS OTHERWISE NOTED.**

3

CONSTRUCTION STAKING

PROJECT ID	650.9000 CONSTRUCTION STAKING CURB RAMPS (EACH)	650.9910 CONSTRUCTION STAKING SUPPLEMENTAL CONTROL (LS)	650.9920 CONSTRUCTION STAKING SLOPE STAKES (LF)
9266-11-03	1	1	3876
TOTALS	**1**	**1**	**3876**

TURTLE FENCE SALVAGED

STAGE	STA	STA	LOCATION	SPV.0090.01 TURTLE FENCE SALVAGED (LF)
1	7+30 'WB'	9+20 'WB'	POND	185
	9+40 'WB'	10+10 'WB'	EMERGENCY SPILLWAY	65
STAGE 1 SUBTOTAL				250
TOTAL				**250**

PROOF ROLLING

STAGE	STA	STA	LOCATION	SPV.0170.01 PROOF ROLLING (STA)
1	9+00 EB	10+00 EB	STORM SEWER	1
STAGE 1 SUBTOTAL				1
2	6+00 EB	24+23 EB	EB MAINLINE	19
	12+00 EB	16+50 EB	WB MAINLINE	5
STAGE 2 SUBTOTAL				24
3A	6+00 EB	12+00 EB	WB MAINLINE	6
	16+00 EB	24+23 EB	WB MAINLINE	9
STAGE 3A SUBTOTAL				15
TOTAL				**40**

3

SAWING PAVEMENT

STAGE	STATION	- STATION	LOCATION	690.0150 SAWING ASPHALT (LF)	690.0250 SAWING CONCRETE (LF)
1	9+22'WB'		LT/RT	-	28
	9+40'EB'	- 9+74'EB'	MEDIAN	-	34
	9+56'WB'		LT/RT	-	28
STAGE 1 SUBTOTALS				0	90
2	6+20.67'EB'		LT/RT	-	28
	11+85'EB'	- 12+06'WB'	LT/RT	-	78
	332+70'A'		OFF RAMP	-	26
	326+21'B'		ON RAMP	5	27
	16+28'WB'		LT/RT	5	26
	24+18'EB'		LT/RT	-	106
	22+38.31 'EB'		INDUSTRY CT	-	2
	22+66.31 'EB'		INDUSTRY CT	-	2
STAGE 2 SUBTOTALS				10	295
3A	6+07.23'WB'		LT/RT	-	28
	332+70.83'A'		LT	-	25
	325+60.17 'C'		ON RAMP	5	18
	24+29.56 'WB'		LIMITS WB	-	92
STAGE 3A SUBTOTALS				5	163
TOTALS				**15**	**548**

COVERING TRAFFIC SIGNAL HEAD

STAGE	INTERSECTION	LOCATION	SIGNAL TYPE	SIGNAL FACING	SPV.0060.04 COVERING TRAFFIC SIGNAL HEAD (EACH)
1 & 2	HOLMGREN WAY & VANDERPERREN WAY	NW QUADRANT	MAST ARM	EAST	1
		SW QUADRANT	PEDESTAL BASE	EAST	1
		SW QUADRANT	MAST ARM	NORTH	1
		SE QUADRANT	PEDESTAL BASE	NORTH	1
		NE QUADRANT	PEDESTAL BASE	EAST	1
STAGES 1 & 2 SUBTOTAL					5
3A & 3B	STH 32 & VANDERPERREN WAY	NW QUADRANT	PEDESTAL BASE	SOUTH	1
		NE QUANDRANT	MONOTUBE ARM	SOUTH	1
STAGES 3A & 3B SUBTOTAL					2
TOTAL					**7**

*****ALL ITEMS CATEGORY 0010 UNLESS OTHERWISE NOTED.**

3

Removing Concrete Bases	
	204.0195
Location	EACH
STH 32 & Vanderperren Way (S05-0558)	2
TOTAL	2

Pull Boxes, Non-Conductive	
	653.0164
	24x42-Inch
Location	EACH
STH 32 & Vanderperren Way (S05-0558)	4
TOTALS	4

3

Conduit Rigid Nonmetallic Schedule 40				
Location				
STH 32 & Vanderperren Way (S05-0558)		652.0225	652.0235	652.0615
		2-Inch	3-Inch	3-Inch
				Special
FROM	TO	LF	LF	LF
CB1	PB1		50	
CB1	PB1		50	
PB1	PB7	30		
PB1	PB2		50	
PB1	PB2		50	
PB2	PB3		70	
PB2	PB3		70	
PB5	PB6		40	
PB6	SB1	10		
PB5	PB4			90
	TOTALS	40	380	90

Removing Pull Boxes	
	653.0905
Location	EACH
STH 32 & Vanderperren Way (S05-0558)	2
TOTALS	2

Concrete Bases	
	654.0101
	Type 1
Location	EACH
STH 32 & Vanderperren Way (S05-0558)	1
TOTALS	1

***ALL ITEMS CATEGORY 0010 UNLESS OTHERWISE NOTED.

Loop Detectors

Location	LOOP NO.	# OF TURNS	652.0800 Conduit LF	655.0700 Lead In Cable LF	655.0800 Wire LF
STH 32 & Vanderperren Way (S05-0558)	11			280	
	21			570	
	22			410	
	41	2	100	110	210
	42	2	100	100	210
	51			150	
	61			560	
	62			400	
		TOTALS	200	2,580	420

TRAFFIC SIGNAL CABLE

Location	655.0230	655.0240	655.0260		655.0230	655.0240
STH 32 & Vanderperren Way (S05-0558)					Base to Head	Base to Head
	5-14	7-14	12-14	HEAD	5-14	7-14
	AWG	AWG	AWG	NO.	AWG	AWG
From CB1 to	LF	LF	LF		LF	LF
SB1	130			13	15	
SB2 (eliminated)						
SB3			250	1		use existing
				10	use existing	
SB4			430	2		use existing
				3	use existing	
				4	use existing	
SB5		420		11		use existing
SB6		260		12		use existing
SB7			260	5	use existing	
				6		use existing
SB8			120	7		use existing
				8	use existing	
				9	use existing	
Sub Total	130	680	1,060		15	0
TOTALS	145	680	1,060			

Signal Indication		Conductor Color
Red	=	Red
Yellow	=	Orange
Green	=	Green
Red Arrow	=	Red w/Black Tracer
Yellow Arrow	=	Black w/White
Yellow Flashing Arrow	=	White w/Black
Green Arrow	=	Blue w/Black

NOTE: Lead-In Cable shall be pulled in separately from other cables/wires and enter the Control Cabinet in a separate conduit if provided.

***ALL ITEMS CATEGORY 0010 UNLESS OTHERWISE NOTED.

Signal Lighting Cable		
		655.0305
Location		Type UF
STH 32 & Vanderperren Way (S05-0558)		2-12 AWG
		Grounded
FROM	TO	LF
CB1	SB4	430
CB1	SB8	120
	TOTAL	550

Electrical Wire Lighting 12 AWG		
Location		
STH 32 & Vanderperren Way (S05-0558)		
120 Volt System		655.0610
FROM	TO	LF
SB4	Luminaire	use existing
SB8	Luminaire	use existing
	TOTAL	0

Electrical Wire Traffic Signals 10 AWG		
Location		655.0515
STH 32 & Vanderperren Way (S05-0558)		
		(Equipment Grounding Conductor)
		(Green)
		LF
FROM	TO	
CB1	SB3	250
SB3	SB4	240
SB4	SB5	90
SB5	SB6	160
SB6	SB7	60
SB7	SB8	270
SB8	SB1	150
SB1	CB1	130
	TOTAL	1,350

TRAFFIC SIGNALS					
		657.0420			
			658.0173	658.5069	SPV.0105.01
	657.0100	Traffic	Traffic	Signal	Remove
		Signal	Signal	Mounting	Signal
	Pedestal	Standard	Face	Hardware	
	Bases	Aluminum	3S 12-Inch	(STH 32 & Vanderperren Way)	(STH 32 & Vanderperren Way)
		13-FT			
Location	EACH	EACH	EACH	LS	LS
STH 32 & Vanderperren Way (S05-0558)	1	1	1	1	1
TOTALS	1	1	1	1	1

***ALL ITEMS CATEGORY 0010 UNLESS OTHERWISE NOTED.

CONVENTIONAL SYMBOLS

SECTION LINE
QUARTER LINE
SIXTEENTH LINE
NEW REFERENCE LINE
NEW R/W LINE
EXISTING R/W LINE
PROPERTY LINE
LOT, TIE, AND OTHER MINOR LINES
SLOPE INTERCEPT
CORPORATE LIMITS
UNDERGROUND FACILITY (COMMUNICATIONS, ELECTRIC ETC)
FEE ACQUISITION AREA (HATCHING VARIES BY OWNER)
TEMP. LIMITED EASEMENT AREA
EASEMENT AREA (HIGHWAY PERMANENT LIMITED, OR RESTRICTED DEVELOPMENT)
TRANSMISSION STRUCTURES
BUILDING
BUILDING (TO BE REMOVED)
BRIDGE

PARCEL NUMBER (25)
UTILITY NUMBER (40)
PRIVATE CLAIMS CORNER
NOTATION FOR COMBUSTABLE FLUIDS
NOTATION FOR HIGH VOLTAGE TRANSMISSION LINES
R/W MONUMENT
NON-MONUMENTED R/W POINT
FOUND IRON PIN
VALVE (GAS, WATER, ETC.)
SIGN
OFF-PREMISE SIGN

ACCESS CONTROLLED BY ACQUISITION
NO ACCESS (BY STATUTORY AUTHORITY)
ACCESS RESTRICTED (BY PREVIOUS PROJECT OR CONTROL)
NO ACCESS (NEW HIGHWAY)
NATIONAL GEODETIC SURVEY MONUMENT
SIXTEENTH CORNER MONUMENT
PARALLEL OFFSETS

CONVENTIONAL UTILITY SYMBOLS

WATER	W
GAS	G
TELEPHONE	T
OVERHEAD TRANSMISSION LINES	OH
ELECTRIC	E
CABLE TELEVISION	TV
FIBER OPTIC	FO
SANITARY SEWER	SAN
STORM SEWER	SS
ELECTRIC TOWER	

	NON-COMPENSABLE	COMPENSABLE
POWER POLE		
TELEPHONE POLE		
TELEPHONE PEDESTAL		

CURVE DATA ABBREVIATIONS

LONG CHORD	LCH
LONG CHORD BEARING	LCB
RADIUS	R
DEGREE OF CURVE	D
CENTRAL ANGLE	Δ/DELTA
LENGTH OF CURVE	L
TANGENT	T
DIRECTION AHEAD	DA
DIRECTION BACK	DB

STATE R/W PROJECT NUMBER	SHEET NUMBER	TOTAL SHEETS
9266-11-03	4.01	6
CONSTRUCTION PROJECT NUMBER 9266-11-03		

PLAT OF RIGHT OF WAY REQUIRED FOR

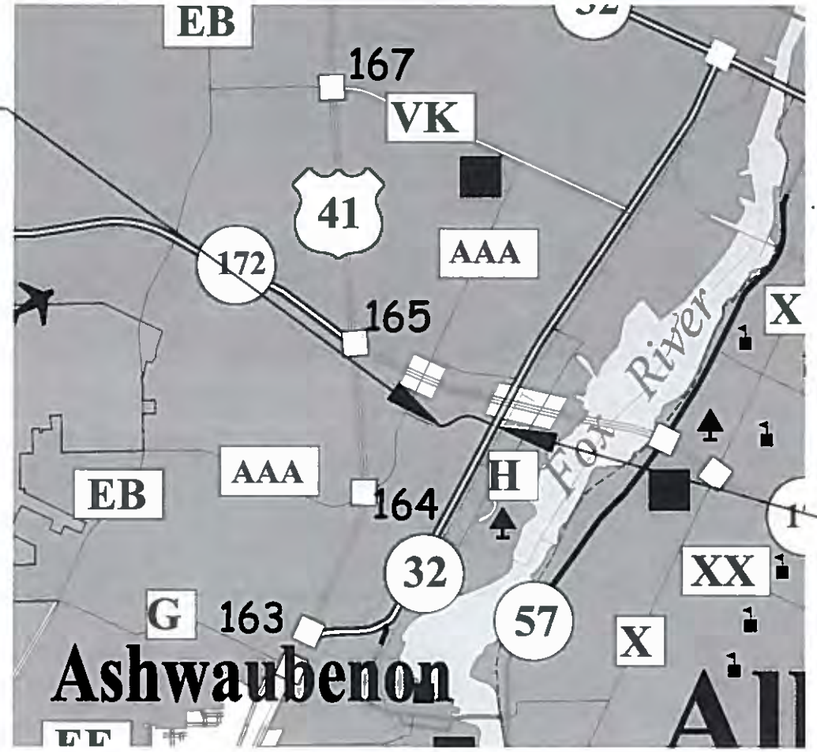
BROWN COUNTY - CTH HH
HOLMGREN WAY - ASHLAND AVENUE

CTH HH	BROWN COUNTY

Received
APR 30 2019
Brown County



BEGIN RELOCATION ORDER
PROJECT 9266-11-03
STA 3'EB'+00.00
Y = 553 120 614
X = 85 813 887



END RELOCATION PROJECT
PROJECT 9266-11-03
STA 24+23.73 'EB'
Y = 553 130.909
X = 87 593 756

LAYOUT
SCALE 0 1.0 MI

TOTAL NET LENGTH OF CENTERLINE = 0.342 MI

CONVENTIONAL ABBREVIATIONS

ACCESS RIGHTS	AR	OUTLOT	OL
ACRES	AC	PAGE	P
AHEAD	AH	POINT OF TANGENCY	PT
ALUMINUM	ALUM	PROPERTY LINE	PL
AND OTHERS	ET AL	RECORDED AS	(100')
BACK	BK	REEL / IMAGE	R/I
BLOCK	BLK	REFERENCE LINE	R/L
CENTERLINE	C/L	PERMANENT LIMITED EASEMENT	PLE
CERTIFIED SURVEY MAP	CSM	POINT OF BEGINNING	POB
CONCRETE	CONC	POINT OF CURVATURE	PC
COUNTY	CO	POINT OF COMPOUND CURVE	PCC
COUNTY TRUNK HIGHWAY	CTH	POINT OF INTERSECTION	PI
DISTANCE	DIST	REMAINING	REM
CORNER	COR	RESTRICTIVE DEVELOPMENT EASEMENT	RDE
DOCUMENT NUMBER	DOC	RIGHT	RT
EASEMENT	EASE	RIGHT OF WAY	R/W
EXISTING	EX	SECTION	SEC
GAS VALVE	GV	SEPTIC VENT	SEPV
GRID NORTH	GN	SQUARE FEET	SF
HIGHWAY EASEMENT	HE	STATE TRUNK HIGHWAY	STH
IDENTIFICATION	ID	STATION	STA
LAND CONTRACT	LC	TELEPHONE PEDESTAL	TP
LEFT	LT	TEMPORARY LIMITED EASEMENT	TLE
MONUMENT	MON	TRANSPORTATION PROJECT PLAT	TPP
NATIONAL GEODETIC SURVEY	NGS	UNITED STATES HIGHWAY	USH
NUMBER	NO	VOLUME	V

NOTES:

POSITIONS SHOWN ON THIS PLAT ARE WISCONSIN COORDINATE REFERENCE SYSTEM COORDINATES (WISCRS), BROWN COUNTY, NAD83 (1991) IN US SURVEY FEET. VALUES SHOWN ARE GRID COORDINATES. GRID BEARINGS, AND GRID DISTANCES. GRID DISTANCES MAY BE USED AS GROUND DISTANCES.

ALL NEW RIGHT-OF-WAY MONUMENTS WILL BE TYPE 2 (TYPICALLY 3/4"X24" IRON REBARS) UNLESS OTHERWISE NOTED, AND WILL BE PLACED PRIOR TO THE COMPLETION OF THE PROJECT.

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 THE NEW REFERENCE LINES.

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 RIGHTS TO MAKE OR CONSTRUCT IMPROVEMENTS ON SAID LANDS OR TO FLATTEN THE SLOPES, SAID ACTIVITIES WILL NOT IMPAIR OR OTHERWISE ADVERSELY AFFECT THE HIGHWAY FACILITIES.

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 BROWN COUNTY MAY DEEM DESIRABLE. ALL (TLEs) ON THIS PLAT EXPIRE AT THE COMPLETION OF THE CONSTRUCTION PROJECT FOR WHICH THIS INSTRUMENT IS GIVEN.

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 ACCURATE FIELD SURVEY.

FOR THE LATEST ACCESS/DRIVEWAY INFORMATION, CONTACT BROWN COUNTY ENGINEERING DEPARTMENT.

ORIGINAL PLAT PREPARED BY
AECOM

WISCONSIN
REBECCA A. DesROCHERS
S-3170
APPLETON, WI
LAND SURVEYOR

REBECCA A. DesROCHERS, PLS-3170
DATE: 02/14/2019

REVISION DATE
04/08/2019
04/22/2019

BROWN COUNTY WISCONSIN

APPROVED FOR THE HIGHWAY DEPARTMENT
DATE 4/25/19 (Signature)

FILE NAME : H:\60543140\900_CAD_GIS\910_CAD\9266110\RW\DWG\040101_RP.DWG
PLOT DATE : 04/22/2019 1:02 PM
PLOT BY : DESROCHERS, REBECCA
PLOT NAME :

SCHEDULE OF LANDS & INTERESTS REQUIRED

OWNER'S NAMES ARE SHOWN FOR REFERENCE PURPOSES ONLY AND ARE SUBJECT TO CHANGE PRIOR TO THE TRANSFER OF LAND INTERESTS TO BROWN COUNTY.

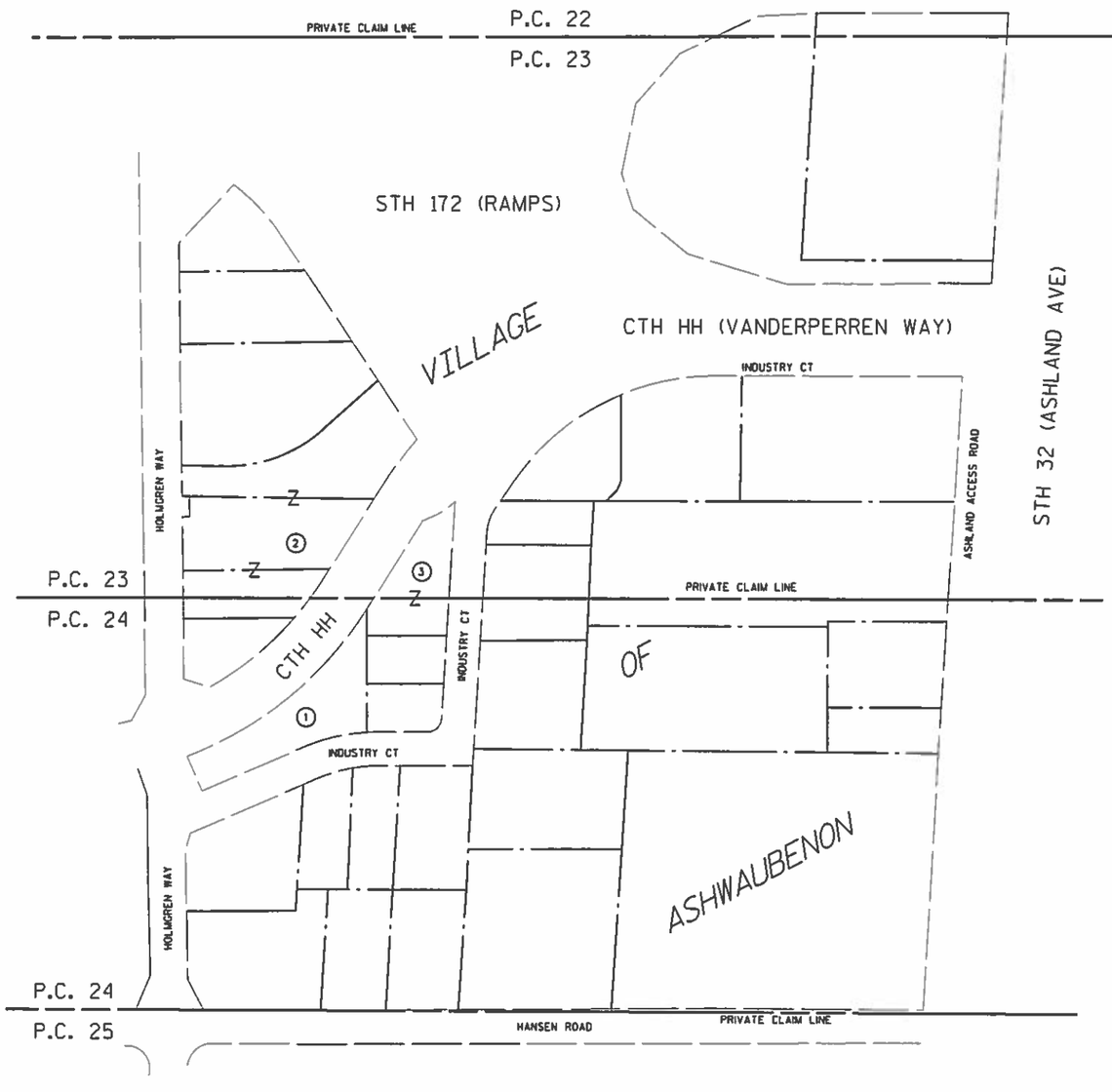
PARCEL NUMBER	SHEET NUMBER	OWNER (S)	INTEREST REQUIRED	R/W SQ.FT. REQUIRED NEW	EXISTING	TOTAL	PLE SQ.FT.	TLE SQ.FT
1	4.04	MONTY J. & SANDRA A. ROLOFF	TLE	-----	-----	-----	-----	999.91
2	4.05	VILLAGE OF ASHWAUBENON	PLE & TLE	-----	-----	-----	3534.95	4653.20
3	4.05	KINDSGRAB HOLDING LLC	FEE & TLE	423.71	-----	423.71	-----	1186.36

4

4

REVISION DATE	DATE: 02/14/2019	SCALE, FEET 0 20 40	HWY: CTH HH	STATE R/W PROJECT NUMBER: 9266-11-03	PLAT SHEET 4.02
04/08/2019 04/22/2019	GRID FACTOR: N/A		COUNTY: BROWN	CONSTRUCTION PROJECT NUMBER: 9266-11-03	PS&E SHEET

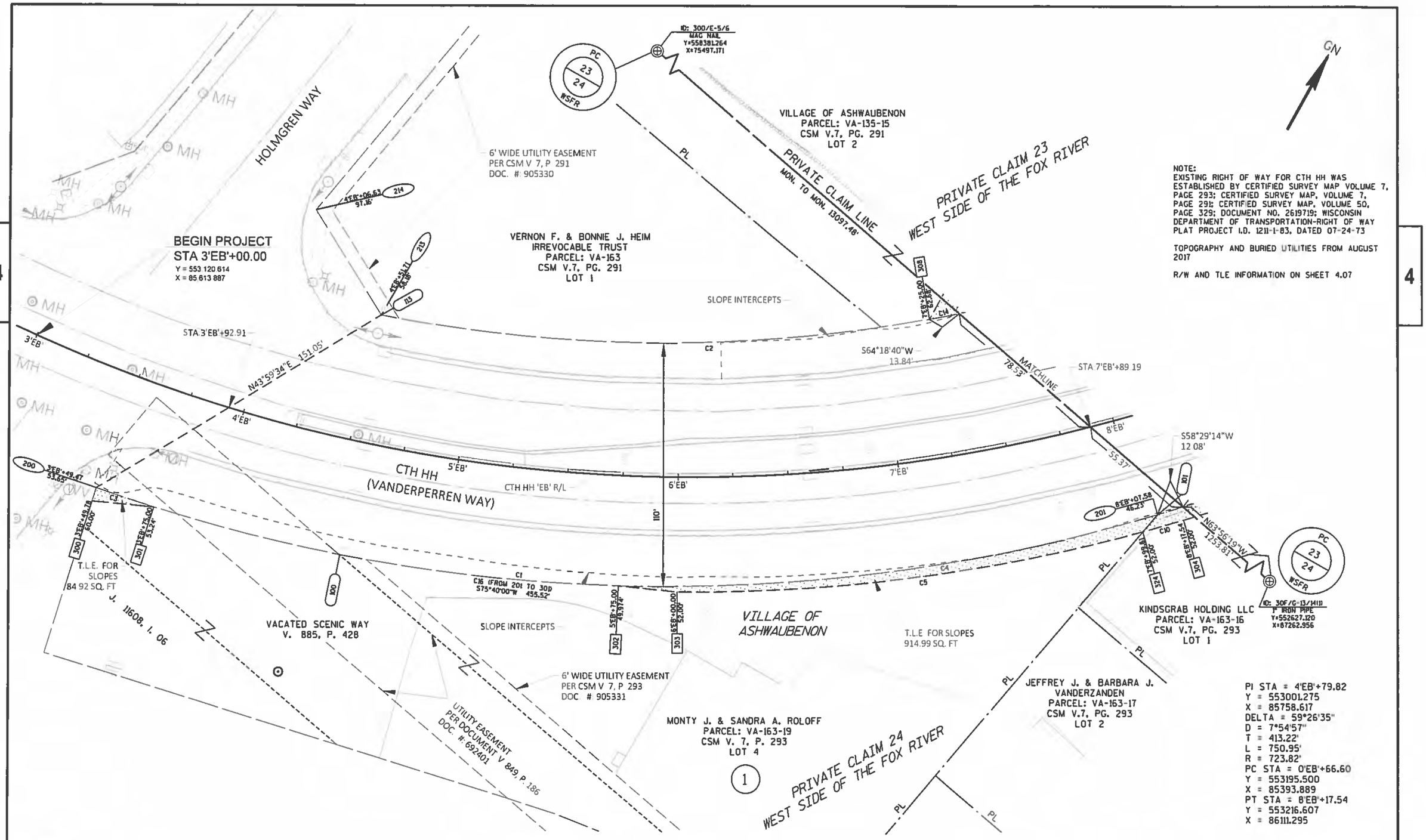
FILE NAME : 040101_RP.DWG PLOT DATE : 4/22/2019 12:25 PM PLOT BY : DESROCHERS, REBECCA PLOT NAME : PLOT SCALE : ########## WISDOT/CADDS SHEET 75



4

REVISION DATE	DATE: 02/14/2019	SCALE, FEET	HWY: CTH HH	STATE R/W PROJECT NUMBER: 9266-11-03	PLAT SHEET 4.03
04/08/2019 04/22/2019	GRID FACTOR: N/A	0 20 40	COUNTY: BROWN	CONSTRUCTION PROJECT NUMBER: 9266-11-03	PS&E SHEET

FILE NAME : 040101_RP.DWG PLOT DATE : 4/22/2019 12:27 PM PLOT BY : DESROCHERS, REBECCA PLOT NAME : PLOT SCALE :



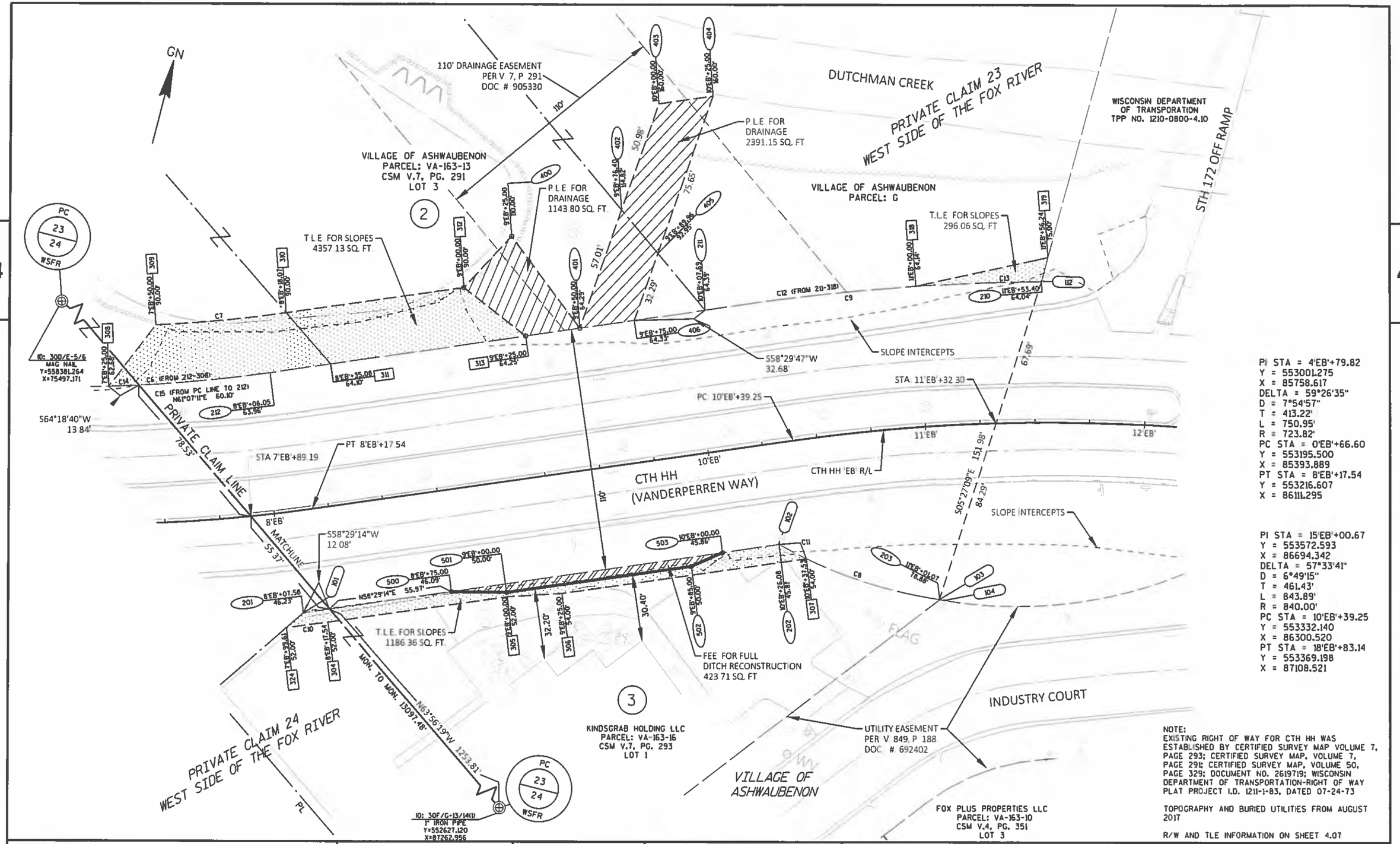
4

REVISION DATE	DATE: 02/14/2019	SCALE, FEET	HWY: CTH HH	STATE R/W PROJECT NUMBER: 9266-11-03	PLAT SHEET 4.04
04/08/2019 04/22/2019	GRID FACTOR N/A	0 20 40	COUNTY: BROWN	CONSTRUCTION PROJECT NUMBER: 9266-11-03	PS&E SHEET

FILE NAME: 040101_RP DWG PLOT DATE: 4/22/2019 12 34 PM PLOT BY: DESROCHERS, REBECCA PLOT NAME PLOT SCALE: 1IN:40FT

WISDOT/CADDS SHEET 75

4



PI STA = 4'EB'+79.82
Y = 553001.275
X = 85758.617
DELTA = 59°26'35"
D = 7°54'57"
T = 413.22'
L = 750.95'
R = 723.82'
PC STA = 0'EB'+66.60
Y = 553195.500
X = 85393.889
PT STA = 8'EB'+17.54
Y = 553216.607
X = 86111.295

PI STA = 15'EB'+00.67
Y = 553572.593
X = 86694.342
DELTA = 57°33'41"
D = 6°49'15"
T = 461.43'
L = 843.89'
R = 840.00'
PC STA = 10'EB'+39.25
Y = 553332.140
X = 86300.520
PT STA = 18'EB'+83.14
Y = 553369.198
X = 87108.521

NOTE:
EXISTING RIGHT OF WAY FOR CTH HH WAS ESTABLISHED BY CERTIFIED SURVEY MAP VOLUME 7, PAGE 293; CERTIFIED SURVEY MAP, VOLUME 7, PAGE 291; CERTIFIED SURVEY MAP, VOLUME 50, PAGE 329; DOCUMENT NO. 2619719; WISCONSIN DEPARTMENT OF TRANSPORTATION-RIGHT OF WAY PLAT PROJECT I.D. 1211-1-83, DATED 07-24-73

TOPOGRAPHY AND BURIED UTILITIES FROM AUGUST 2017

R/W AND TLE INFORMATION ON SHEET 4.07

REVISION DATE 04/08/2019 04/22/2019	DATE: 02/14/2019 GRID FACTOR N/A	SCALE FEET 0 20 40	HWY: CTH HH COUNTY: BROWN	STATE R/W PROJECT NUMBER: 9266-11-03 CONSTRUCTION PROJECT NUMBER: 9266-11-03	PLAT SHEET 4.05 PS&E SHEET

SHEET 4.04 TABLES

EXISTING MONUMENTS		
POINT	Y	X
100	553059.701	85772.051
101	553171.893	86126.618
113	553169.562	85762.785

R/W COURSE TABLE		
PT - PT	BEARING	DISTANCE
200-201*	N76°40'50"E	481.66'
212-213*	S72°31'33"W	321.26'
213-214	N46°35'22"W	56.01'

*INDICATES LCH AND LCB

R/W COORDINATE TABLE**		
POINT	Y	X
200	553060.679	85657.633
201	553171.643	86126.333
212	553265.810	86068.975
213	553169.345	85762.544
214	553207.836	85721.856

** NO TYPE 2 MONUMENT SET DUE TO CLOSE PROXIMITY OF EXISTING MONUMENTS. USE COORDINATES IN THIS TABLE FOR R/W.

CURVE TABLE			
CURVE #	ARC LENGTH	RADIUS	DELTA
C1	489.77'	774.75'	36°13'15"
C2	324.48'	663.95'	28°00'02"
C3	27.42'	774.75'	2°01'40"
C4	248.07'	774.75'	18°20'44"
C5	213.95'	775.82'	15°48'03"
C10	19.22'	775.82'	1°25'09"
C14	13.84'	663.95'	1°11'41"
C16	462.35'	774.75'	34°11'34"

TLE COORDINATE TABLE		
POINT	Y	X
300	553054.328	885657.344
301	553058.873	85684.992
302	553078.086	85897.730
303	553082.221	85924.245
304	553172.225	86138.393
308	553230.782	86003.874
324	552117.908	83568.144

TLE COURSE TABLE		
PT - PT	BEARING	DISTANCE
200-301*	S86°13'23"E	27.42'
301-300	S80°39'53"W	28.02'
300-200	N02°36'06"E	6.36'
302-201*	N67°44'35"E	247.01'
201-324	S25°49'16"W	10.25'
324-303*	S67°54'47"W	213.27'
303-302	S81°08'13"W	26.84'

*INDICATES LCH AND LCB

SHEET 4.05 TABLES

EXISTING MONUMENTS		
POINT	Y	X
101	553171.893	86126.618
102	553286.321	86312.963
103	553292.321	86390.331
104	553292.733	86392.540
112	553443.986	86376.614

R/W COURSE TABLE		
PT - PT	BEARING	DISTANCE
201-202	N58°29'14"E	219.14'
202-203*	N85°31'56"E	77.55'
210-211*	S61°49'06"W	154.29'
318-211*	S60°11'27"W	96.93'
211-212	S58°29'46"W	200.62'

*INDICATES LCH AND LCB

R/W COORDINATE TABLE**		
POINT	Y	X
201	553171.643	86126.333
202	553286.183	86313.153
203	553292.224	86390.467
210	553443.512	86376.026
211	553370.644	86240.024
212	553265.810	86068.975

** NO TYPE 2 MONUMENT SET DUE TO CLOSE PROXIMITY OF EXISTING MONUMENTS. USE COORDINATES IN THIS TABLE FOR R/W.

CURVE TABLE			
CURVE #	ARC LENGTH	RADIUS	DELTA
C6	73.97'	663.95'	6°22'58"
C7	59.67'	633.91'	5°23'35"
C8	77.99'	211.53'	21°07'29"
C9	154.44'	1011.64'	8°44'50"
C10	19.22'	775.82'	1°25'09"
C11	14.08'	211.53'	3°48'48"
C12	96.97'	1011.64'	5°29'31"
C13	57.47'	1011.64'	3°15'18"
C14	13.84'	663.95'	1°11'41"
C15	60.12'	663.95'	5°11'18"

TLE COORDINATE TABLE		
POINT	Y	X
304	553172.225	86138.393
305	553215.195	86208.771
306	553226.516	86231.150
307	553285.155	86327.192
308	553230.782	86003.874
309	553264.999	86012.554
310	553293.695	86064.844
311	553280.450	86092.862
312	553336.391	86134.773
313	553327.439	86169.530
324	552117.908	83568.144

TLE COURSE TABLE		
PT - PT	BEARING	DISTANCE
201-500	N58°29'14"E	68.02'
500-501	N67°28'39"E	25.34'
501-502	N58°35'36"E	85.00'
502-503	N43°09'01"E	15.57'
503-202	N58°29'14"E	26.08'
202-307*	S85°48'43"E	14.08'
307-306	S58°35'36"W	112.53'
306-305	S63°10'02"W	25.08'
305-304	S58°35'36"E	82.46'
304-324*	S59°18'11"W	19.22'
324-201	N25°49'16"E	10.25'
308-309	N14°14'01"E	35.30'
309-310*	N61°14'35"E	59.65'
310-311	S64°41'54"E	30.99'
311-212	S58°29'46"W	28.01'
212-308*	S61°43'01"W	73.93'
311-310	N64°41'54"W	30.99'
310-312	N58°35'36"E	81.93'
312-313	S75°33'28"E	35.89'
313-311	S58°29'46"W	89.92'
318-319	N54°27'53"E	61.86'
319-210	S07°51'21"E	11.38'
210-318	S64°33'51"W	57.47'

*INDICATES LCH AND LCB

PLE COORDINATE TABLE		
POINT	Y	X
400	553366.488	86145.688
401	553340.503	86190.846
402	553397.381	86187.044
403	553448.246	86183.654
404	553461.274	86204.982
405	553385.789	86210.013
406	553353.567	86212.161

FEE COORDINATE TABLE		
POINT	Y	X
500	553207.209	86184.353
501	553216.903	86207.730
502	553261.196	86280.275
503	553272.550	86290.918

PLE COURSE TABLE		
PT - PT	BEARING	DISTANCE
313-312	N75°33'27"W	35.89'
312-400	N19°56'01"E	32.02'
400-401	S60°04'56"E	52.10'
401-313	S58°29'46"W	25.00'
401-402	N03°49'25"W	57.01'
402-405	S63°13'17"E	25.73'
405-406	S03°48'47"E	32.29'
406-401	S58°29'46"W	25.00'
402-403	N03°49'25"W	50.98'
403-404	N58°35'36"E	25.00'
404-405	S03°48'47"W	75.65'
405-402	N63°13'17"W	25.73'

FEE COURSE TABLE		
PT - PT	BEARING	DISTANCE
500-503	N58°29'14"E	125.04'
503-502	S43°09'01"W	15.57'
502-501	S58°35'36"W	85.00'
501-500	S67°28'39"W	25.34'

4

4

CHARTER COMMUNICATIONS (UNDERGROUND)

EXISTING R/W

HOLMGREN WAY

CHARTER COMMUNICATIONS (UNDERGROUND)

FLAG

VILLAGE OF ASHWAUBENON - STORM SEWER

P.L.

VILLAGE OF ASHWAUBENON

VILLAGE OF ASHWAUBENON

DETENTION POND

N

HEIM, VERNON F & BONNIE J IRREVOCABLE TRUST

CP 218

WPS - ELECTRIC AND CENTURYLINK

CAUTION

WPS - GAS

WINDSTREAM COMMUNICATIONS (UNDERGROUND)

TLE

SI

P.L. 49'WB'

AT&T WISCONSIN

EXISTING R/W

3'WB'

3'EB'

4'WB'

4'EB'

5'WB'

5'EB'

6'WB'

6'EB'

CTH HH 'WB' R/L

CTH HH 'EB' R/L

CTH HH

VILLAGE OF ASHWAUBENON - STORM SEWER

7'WB'

7'EB'

8'WB'

8'EB'

5'4"EB'

P.L. 48'EB'

CP 219

VILLAGE OF ASHWAUBENON - SANITARY

VILLAGE OF ASHWAUBENON - SANITARY

VILLAGE OF ASHWAUBENON - WATER

TLE

AT&T WISCONSIN

EXISTING R/W

SI

CP 1408

AT&T WISCONSIN

KINDSGRAB HOLDING LLC

TLE

P.L.

P.L.

P.L.

BEGIN CONSTRUCTION
STA 3+50.63 'EB'

BEGIN PROJECT
STA 6+20.73 'EB'
Y=553,138.001
X=85,931.520

MONTY J & SANDRA A ROLOFF

JEFFREY J & BARBRA J VANDERZANDEN

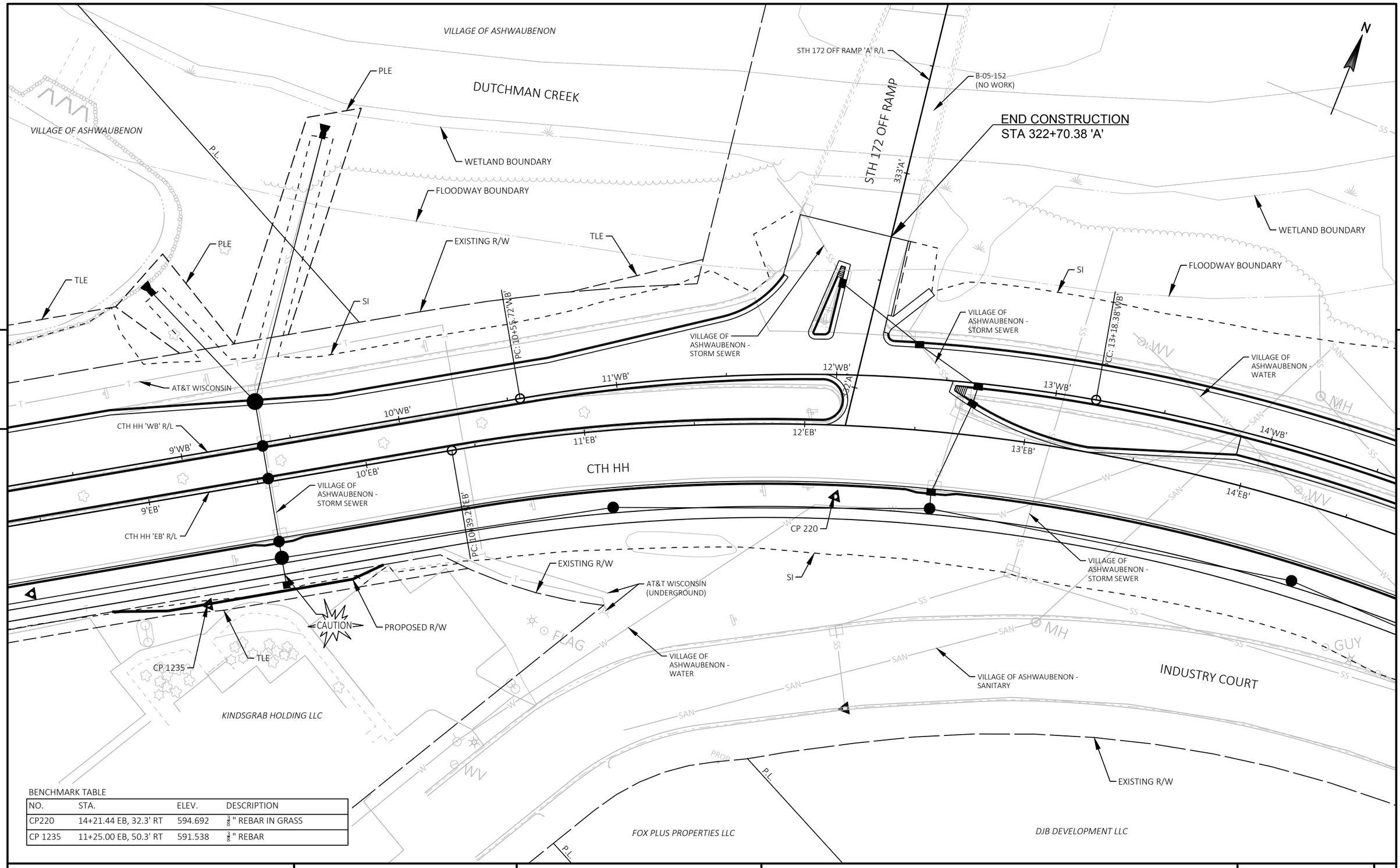
BENCHMARK TABLE

NO.	STA.	ELEV.	DESCRIPTION
CP 218	6+72.19 WB, 76.8' LT	597.110	5/8" REBAR IN GRASS ON HILL
CP 219	10+46.67 EB, 31.8' RT	592.185	5/8" REBAR IN GRASS
CP 1408	7+85.82 EB, 30.1' RT	590.765	5/8" REBAR

5

5

PROJECT NO: 9266-11-03	HWY: CTH HH	COUNTY: BROWN	PLAN - CTH HH	SHEET 79	E



5

5

BENCHMARK TABLE

NO.	STA.	ELEV.	DESCRIPTION
CP220	14+21.44 EB, 32.3' RT	594.692	⅝" REBAR IN GRASS
CP 1235	11+25.00 EB, 50.3' RT	591.538	⅝" REBAR

PROJECT NO: 9266-11-03	HWY: CTH HH	COUNTY: BROWN	PLAN - CTH HH	SHEET 80	E

FILE NAME : \\USGRB1FP001\ATG\60543140\900_CAD_GIS\910_CAD\92661102\SHEETSPLAN\050101_PP.DWG
LAYOUT NAME - 2

PLOT DATE : 9/17/2019 8:24 AM PLOT BY : LANCELLE, JESSICA PLOT NAME : PLOT SCALE : ##########

STH 172 ON RAMP 'B' R/L

STH 172 ON RAMP

327'B'

END CONSTRUCTION
STA 326+21.23 'B'

CP 224

STH 172 ON RAMP 'C' R/L

327'C'

326'C'

END CONSTRUCTION
STA 325+69.15 'C'

KUEHNASHLAND HOLDINGS LLC

EXISTING R/W

PC: 325+09.05'C'

325'C'

PT: 18+53.41'WB'

324'C'

P.L.

KUEHNASHLAND HOLDINGS LLC

N

SI

SI

PCC: 15+90.74'WB'

326'B'

CTH HH 'WB' R/L

16'WB'

17'WB'

18'WB'

19'WB'

20'WB'

VILLAGE OF ASHWAUBENON - STORM SEWER

17'EB'

18'EB'

19'EB'

20'EB'

15'WB'

16'EB'

15'EB'

CTH HH 'EB' R/L

CP 221

VILLAGE OF ASHWAUBENON - STORM SEWER

VILLAGE OF ASHWAUBENON - SANITARY

PT: 18+83.14'EB'

CTH HH

SI

VILLAGE OF ASHWAUBENON - WATER

INDUSTRY COURT

WPS - ELECTRIC

EXISTING R/W

P.L.

DJB DEVELOPMENT LLC

BROOKVIEW MEADOWS LLC

P.L.

GBMS LLC

BENCHMARK TABLE

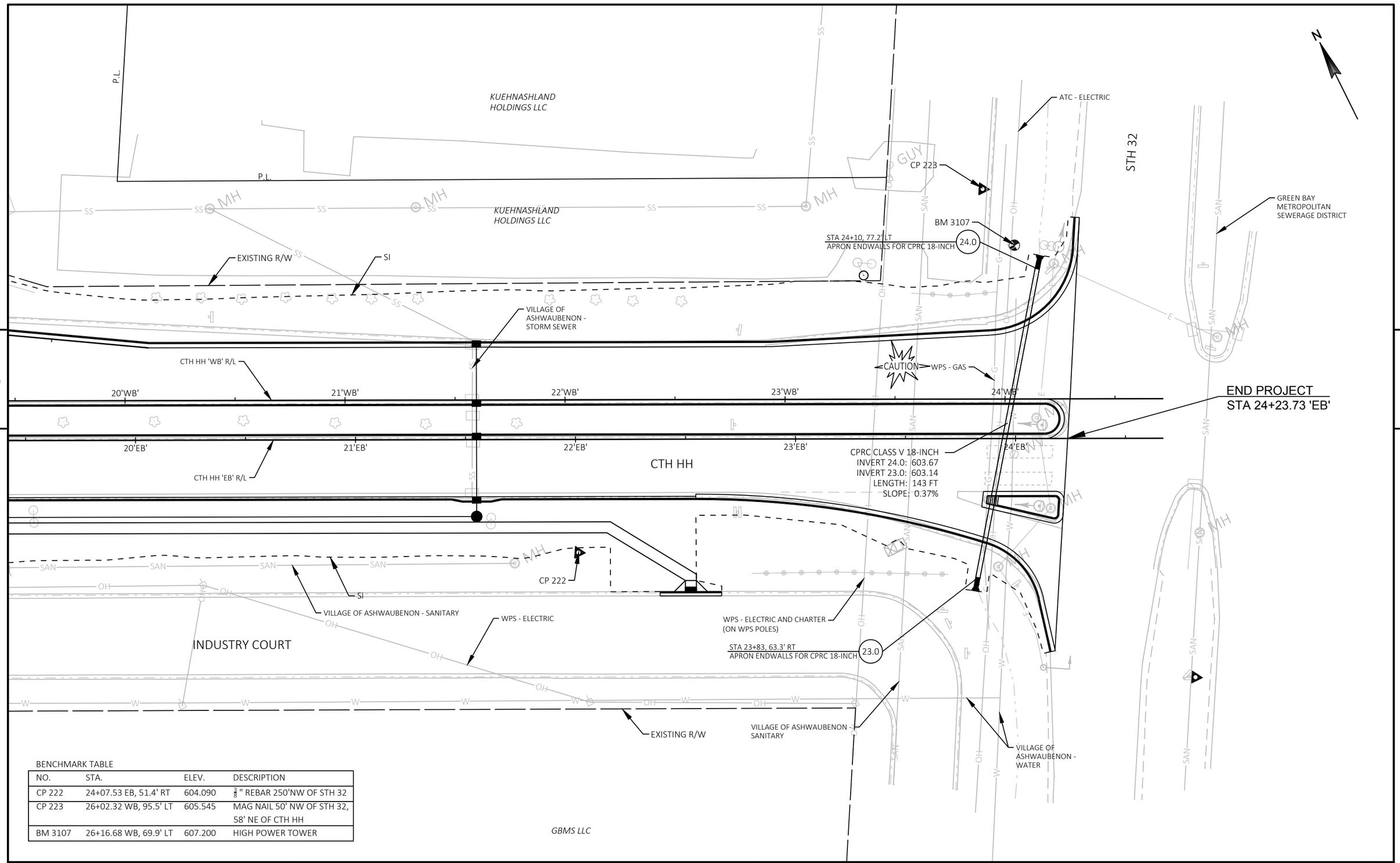
NO.	STA.	ELEV.	DESCRIPTION
CP 221	17+98.89 EB, 29.7' RT	597.710	⅝" REBAR IN GRASS
CP 224	18+79.44 WB, 93.3' LT	596.025	⅝" REBAR IN GRASS

PROJECT NO: 9266-11-03	HWY: CTH HH	COUNTY: BROWN	PLAN - CTH HH	SHEET 81 E

FILE NAME : \\USGRB1FP001\ATG\60543140\900_CAD_GIS\910_CAD\92661102\SHEETSPLAN\050101_PP.DWG
LAYOUT NAME - 3

PLOT DATE : 9/17/2019 8:24 AM PLOT BY : LANCELLE, JESSICA PLOT NAME : PLOT SCALE : ##########

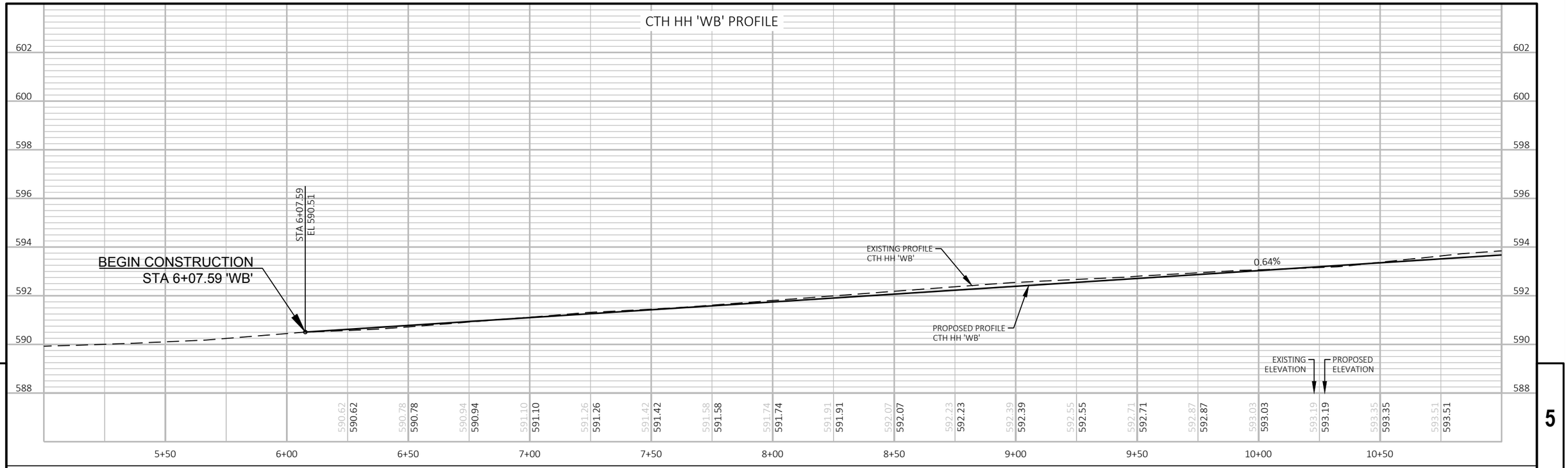
WISDOT/CADDS SHEET 44



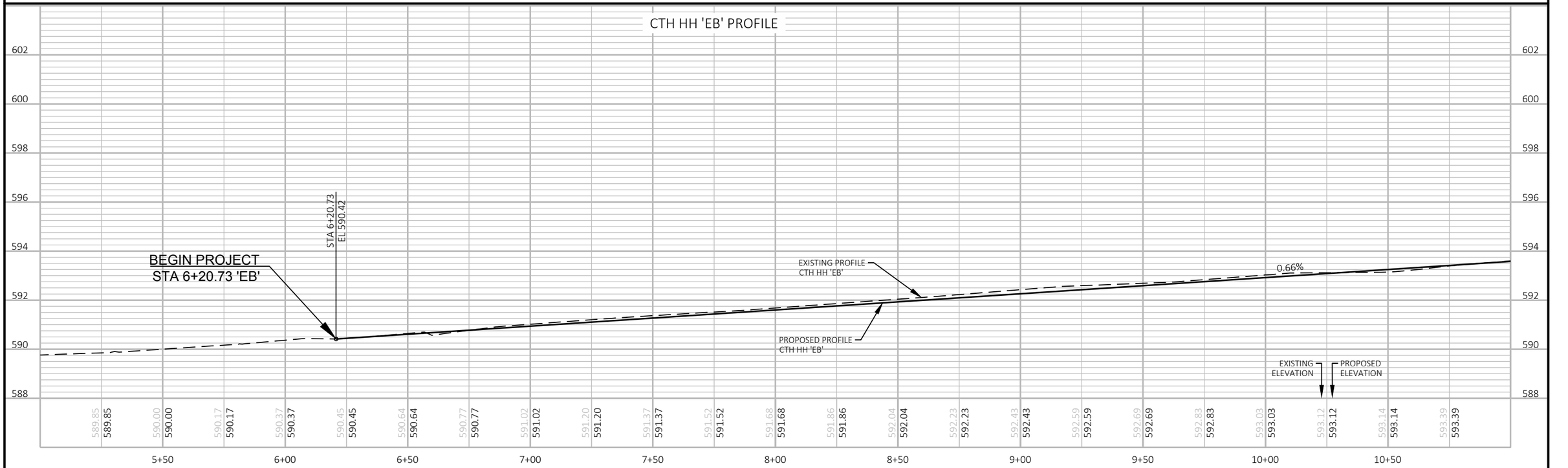
BENCHMARK TABLE

NO.	STA.	ELEV.	DESCRIPTION
CP 222	24+07.53 EB, 51.4' RT	604.090	⅜" REBAR 250'NW OF STH 32
CP 223	26+02.32 WB, 95.5' LT	605.545	MAG NAIL 50' NW OF STH 32, 58' NE OF CTH HH
BM 3107	26+16.68 WB, 69.9' LT	607.200	HIGH POWER TOWER

CTH HH 'WB' PROFILE



CTH HH 'EB' PROFILE



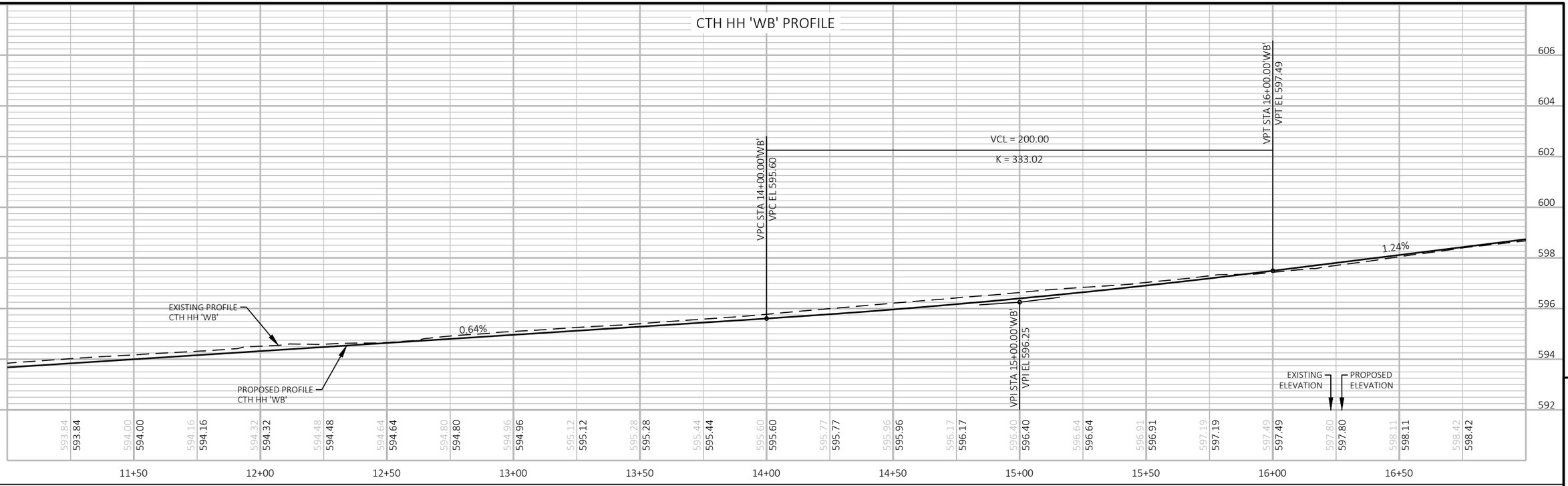
PROJECT NO: 9266-11-03	HWY: CTH HH	COUNTY: BROWN	PROFILE - CTH HH	SHEET 83	E

FILE NAME : \\USGRB1FP001\ATG\60543140\900_CAD_GIS\910_CAD\92661102\SHEETSPLAN\050101_PP.DWG
LAYOUT NAME - 1 (2)

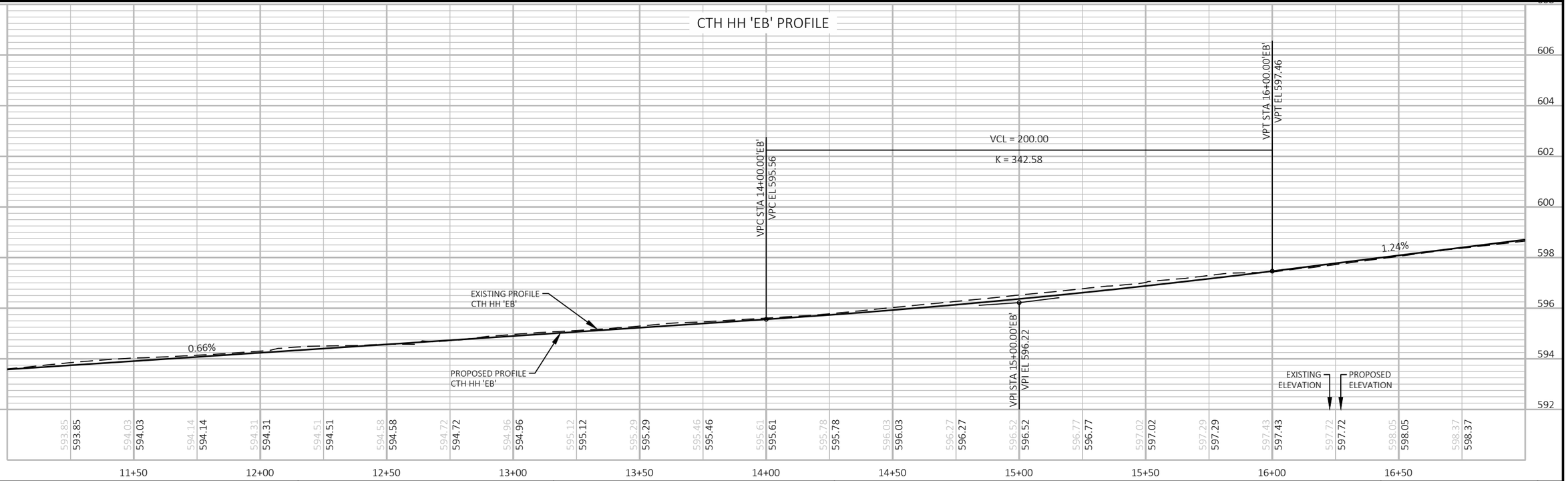
PLOT DATE : 9/17/2019 8:24 AM PLOT BY : LANCELLE, JESSICA PLOT NAME : PLOT SCALE : ##########

WISDOT/CADDS SHEET 44

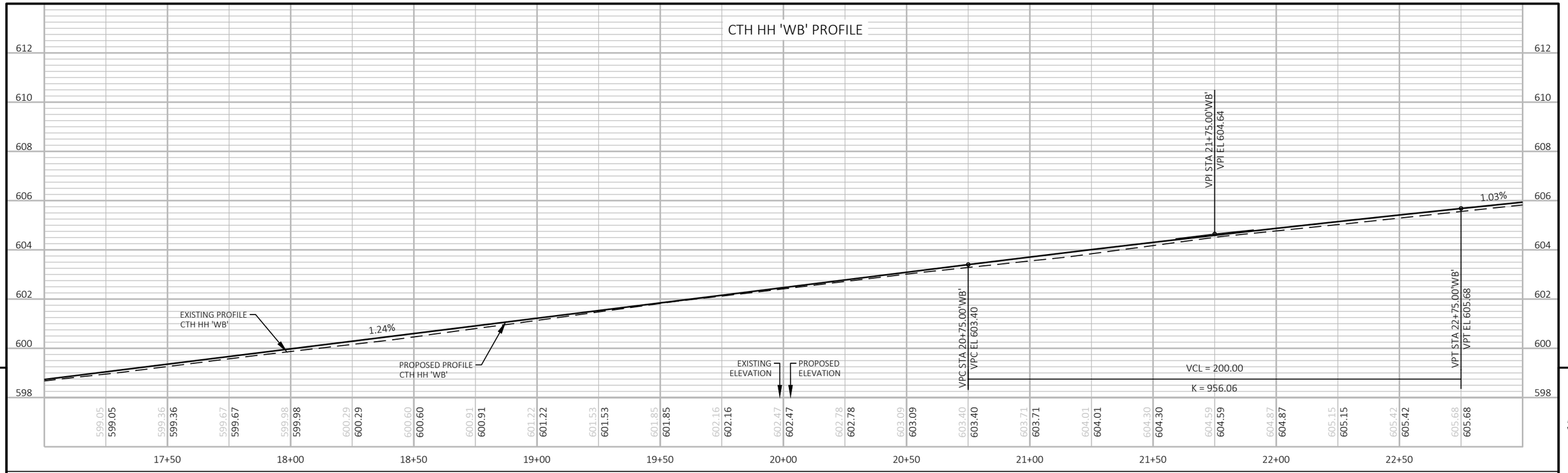
CTH HH 'WB' PROFILE

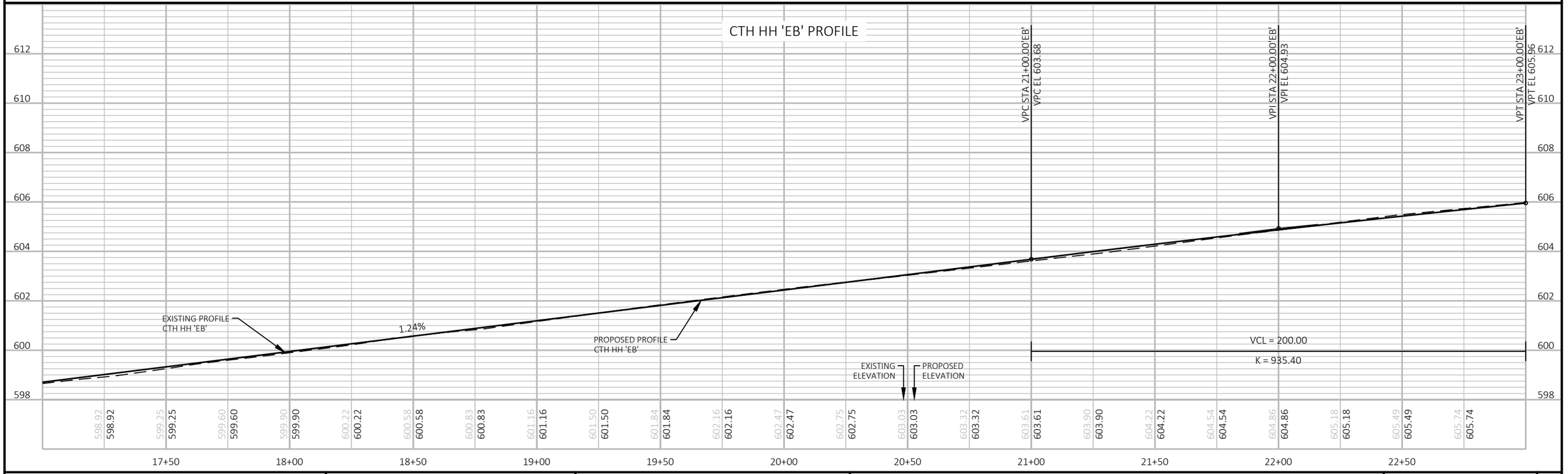


CTH HH 'EB' PROFILE



PROJECT NO: 9266-11-03	HWY: CTH HH	COUNTY: BROWN	PROFILE - CTH HH	SHEET 84	E





PROJECT NO: 9266-11-03	HWY: CTH HH	COUNTY: BROWN	PROFILE - CTH HH	SHEET	E

FILE NAME : \\USGRB1FP001\ATG\60543140\900_CAD_GIS\910_CAD\92661102\SHEETSPLAN\050101_PP.DWG
LAYOUT NAME - 3 (2)

PLOT DATE : 9/17/2019 8:24 AM PLOT BY : LANCELLE, JESSICA PLOT NAME : PLOT SCALE : ##########

CTH HH 'WB' PROFILE



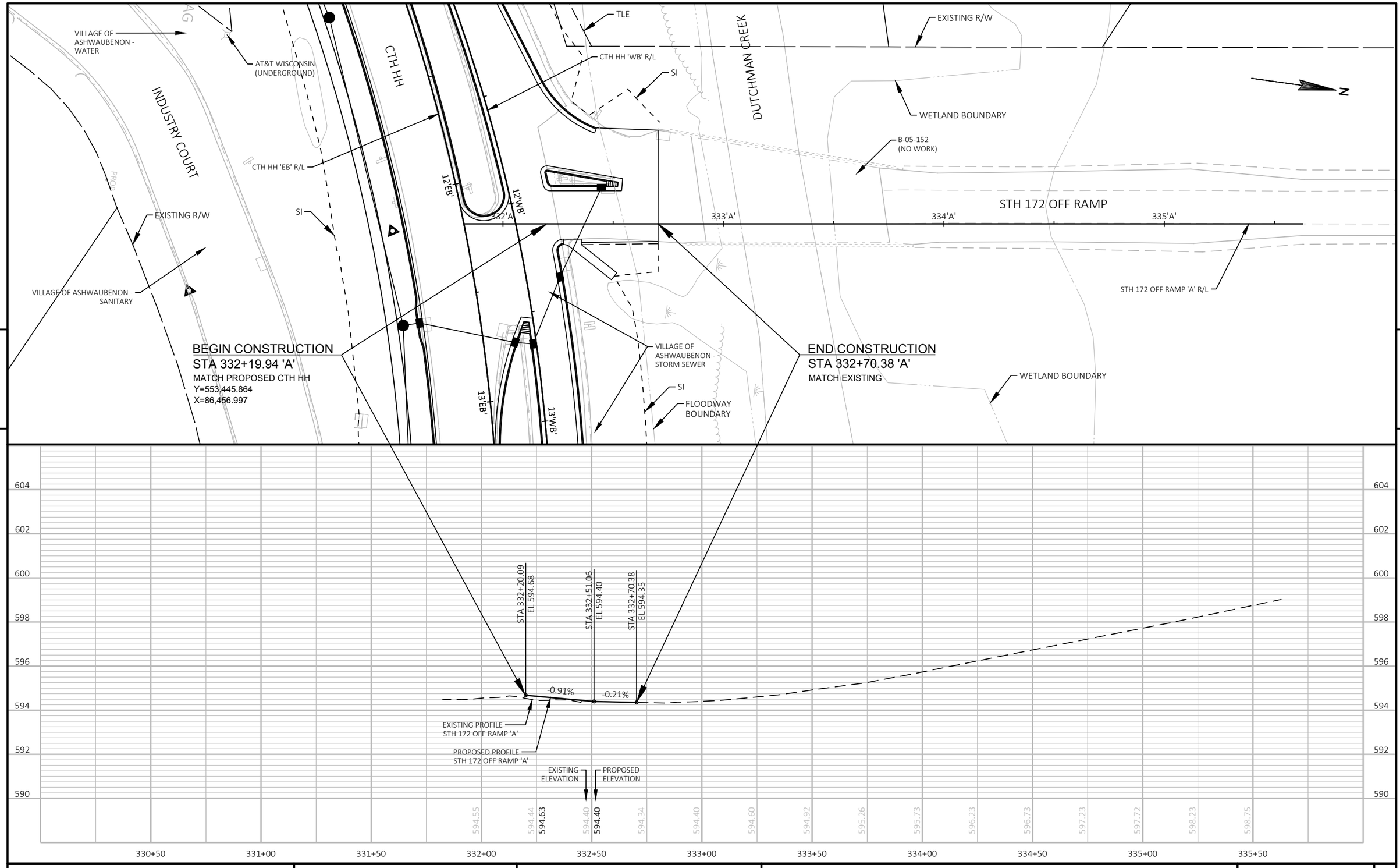
CTH HH 'EB' PROFILE



PROJECT NO: 9266-11-03	HWY: CTH HH	COUNTY: BROWN	PROFILE - CTH HH	SHEET	E

FILE NAME : \\USGRB1FP001\ATG\60543140\900_CAD_GIS\910_CAD\92661102\SHEETSPLAN\050101_PP.DWG
LAYOUT NAME - 4 (2)

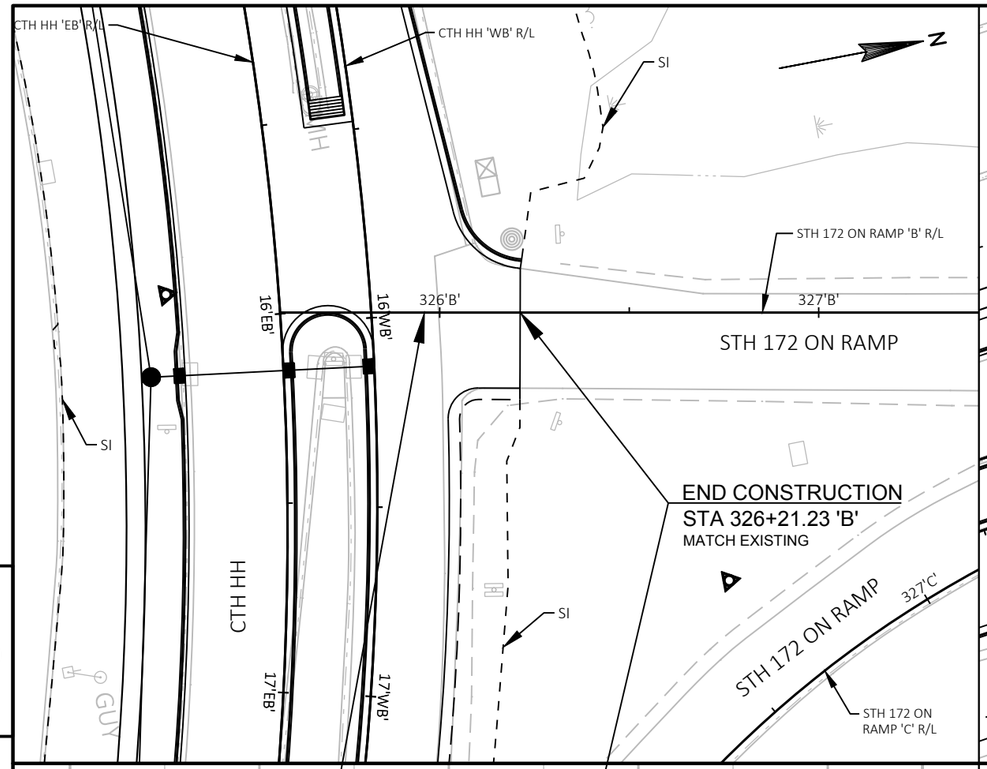
PLOT DATE : 9/17/2019 8:24 AM PLOT BY : LANCELLE, JESSICA PLOT NAME : PLOT SCALE : ##########

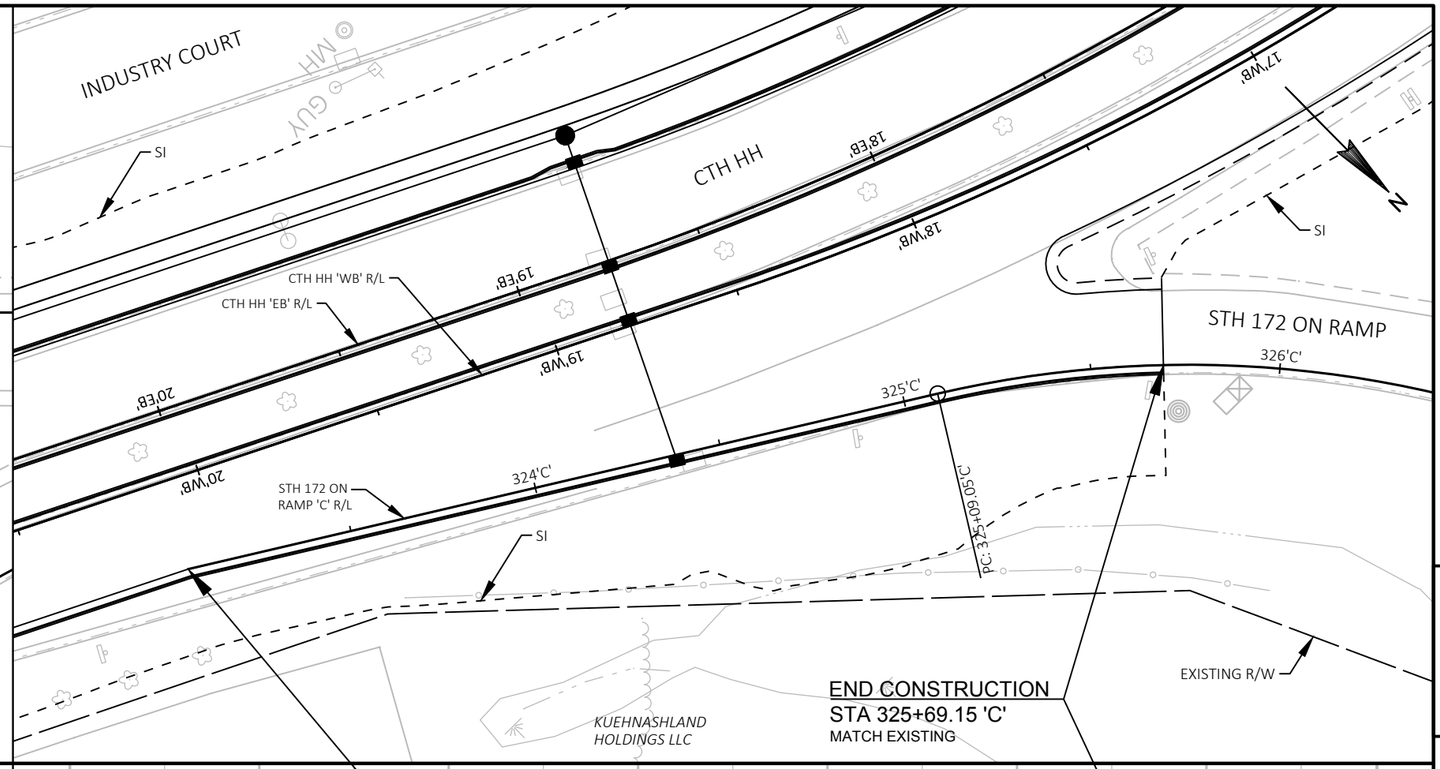


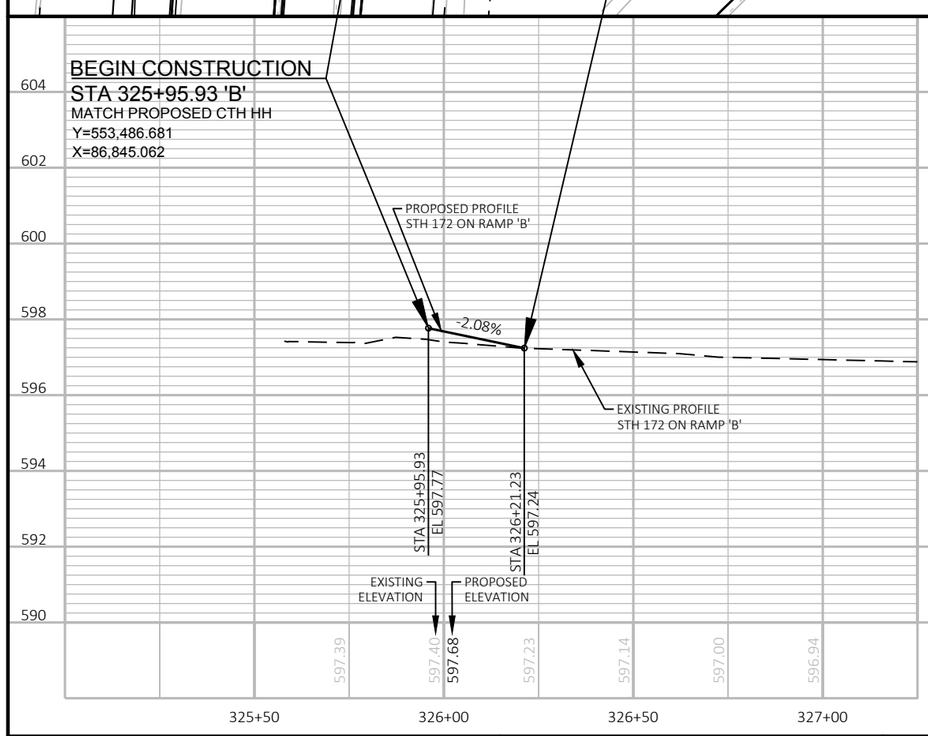
PROJECT NO: 9266-11-03	HWY: CTH HH	COUNTY: BROWN	PLAN AND PROFILE: STH 172 OFF RAMP	SHEET	E

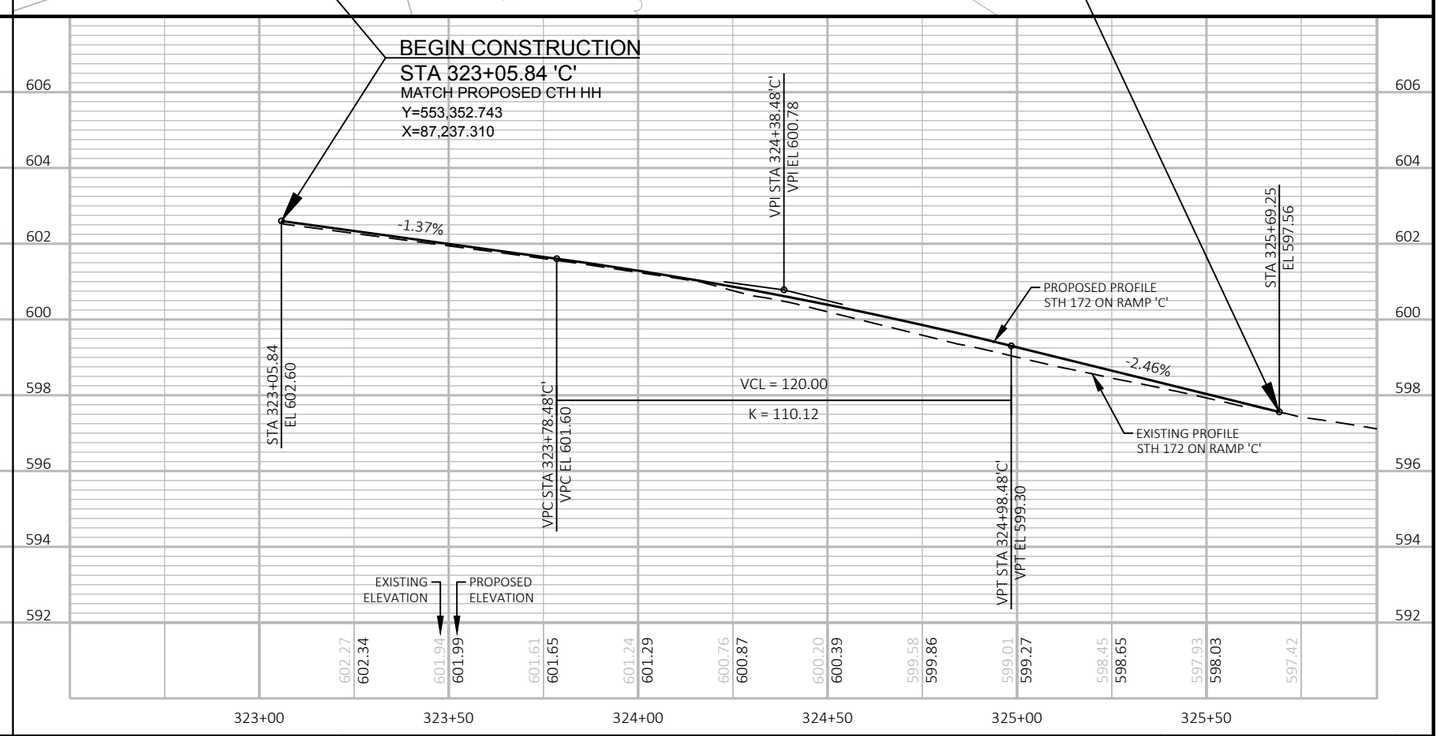
FILE NAME : \\USGRB1FP001\ATG\60543140\900_CAD_GIS\910_CAD\92661102\SHEETSPLAN\050102_PP.DWG
LAYOUT NAME - 5

PLOT DATE : 9/17/2019 8:26 AM PLOT BY : LANCELLE, JESSICA PLOT NAME : PLOT SCALE : 1 IN:40 FT

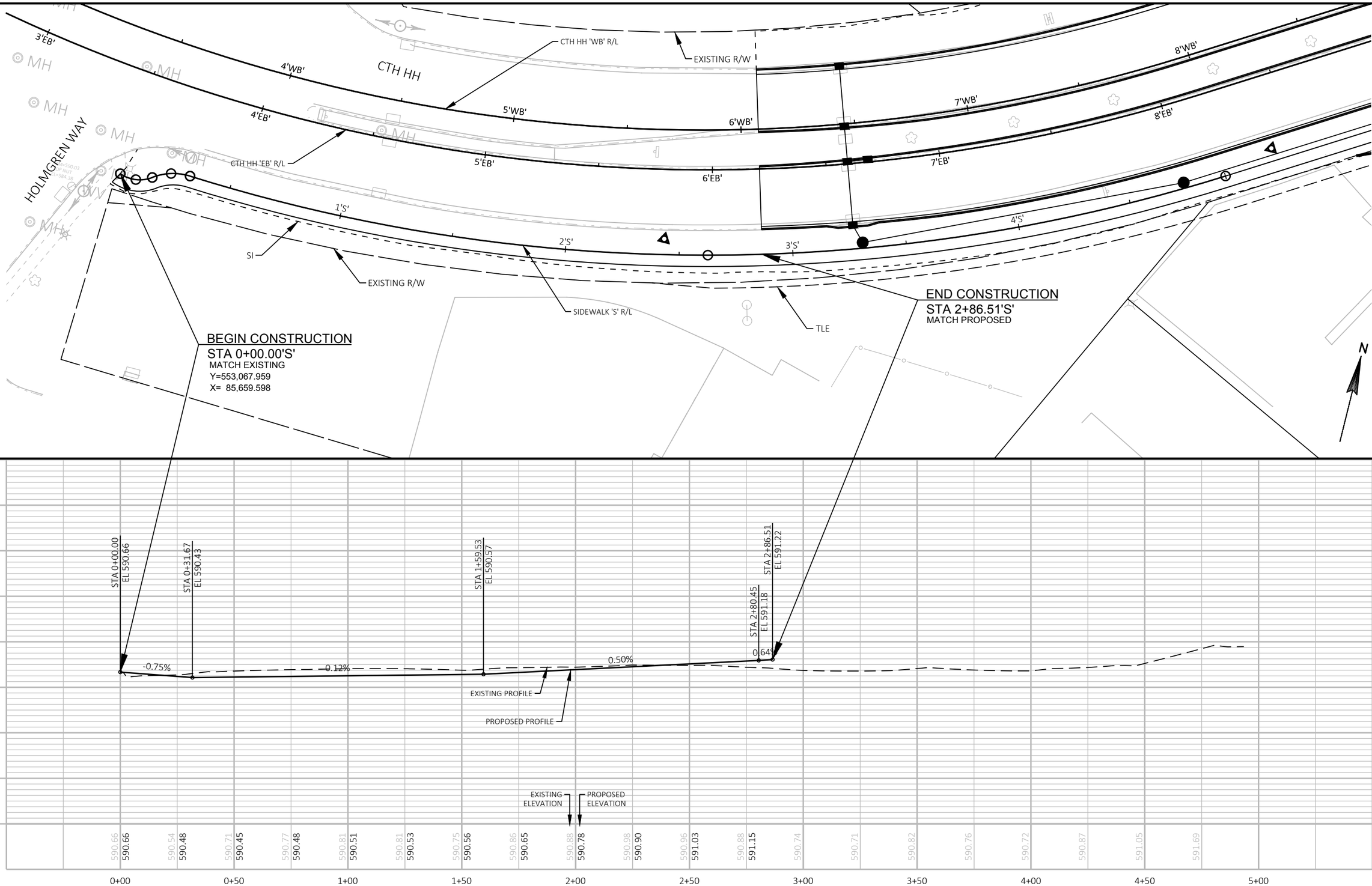




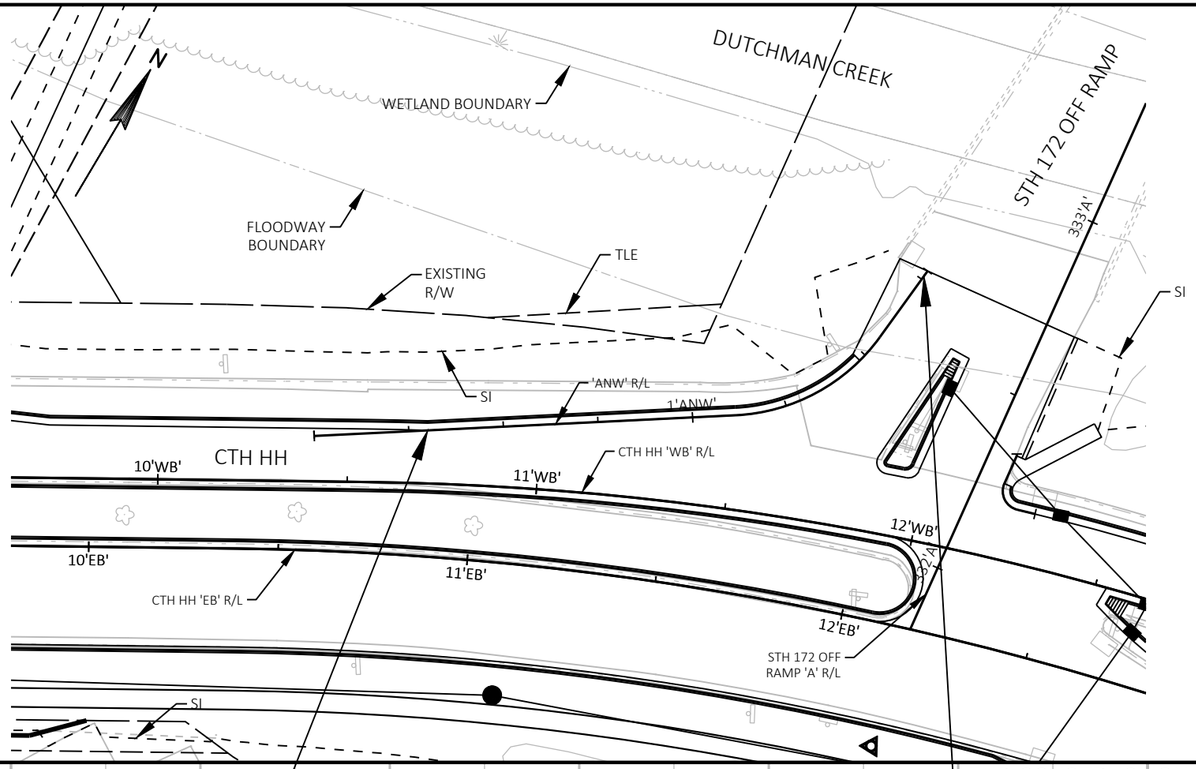


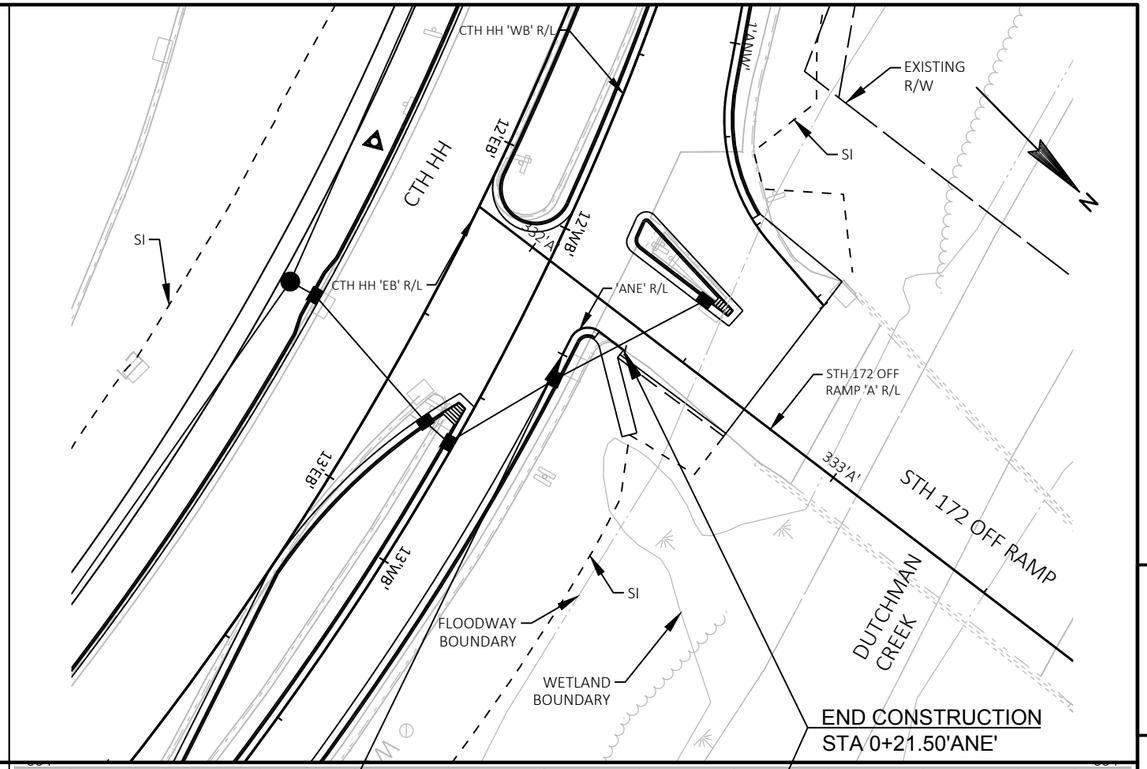


PROJECT NO: 9266-11-03	HWY: CTH HH	COUNTY: BROWN	PLAN AND PROFILE: STH 172 ON RAMPS	SHEET 88	E



PROJECT NO: 9266-11-03	HWY: CTH HH	COUNTY: BROWN	PLAN AND PROFILE: SIDEWALK 'S'	SHEET	E

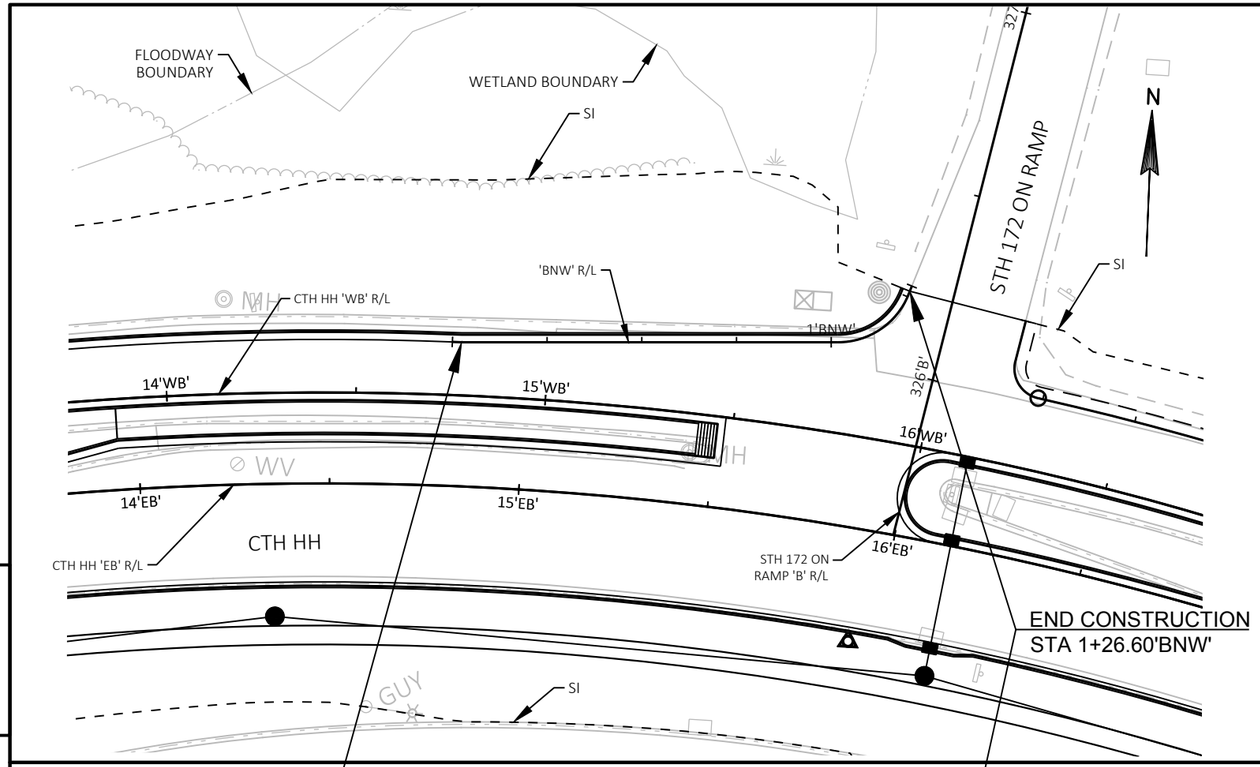


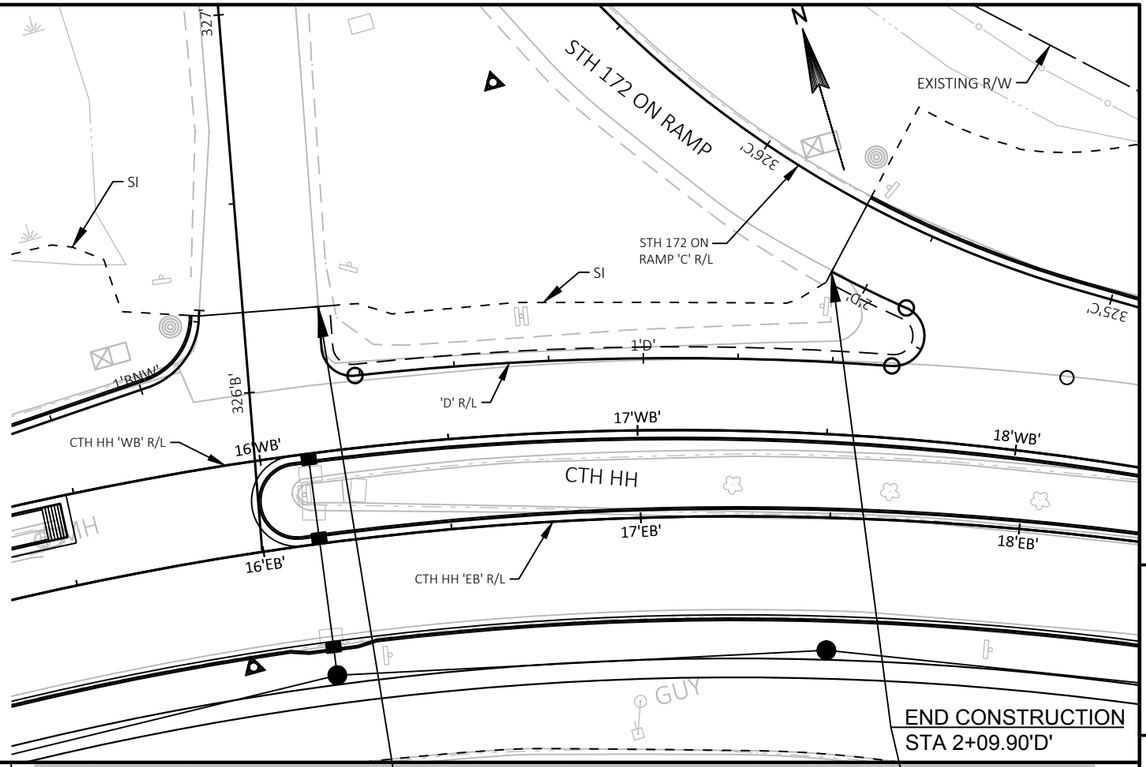


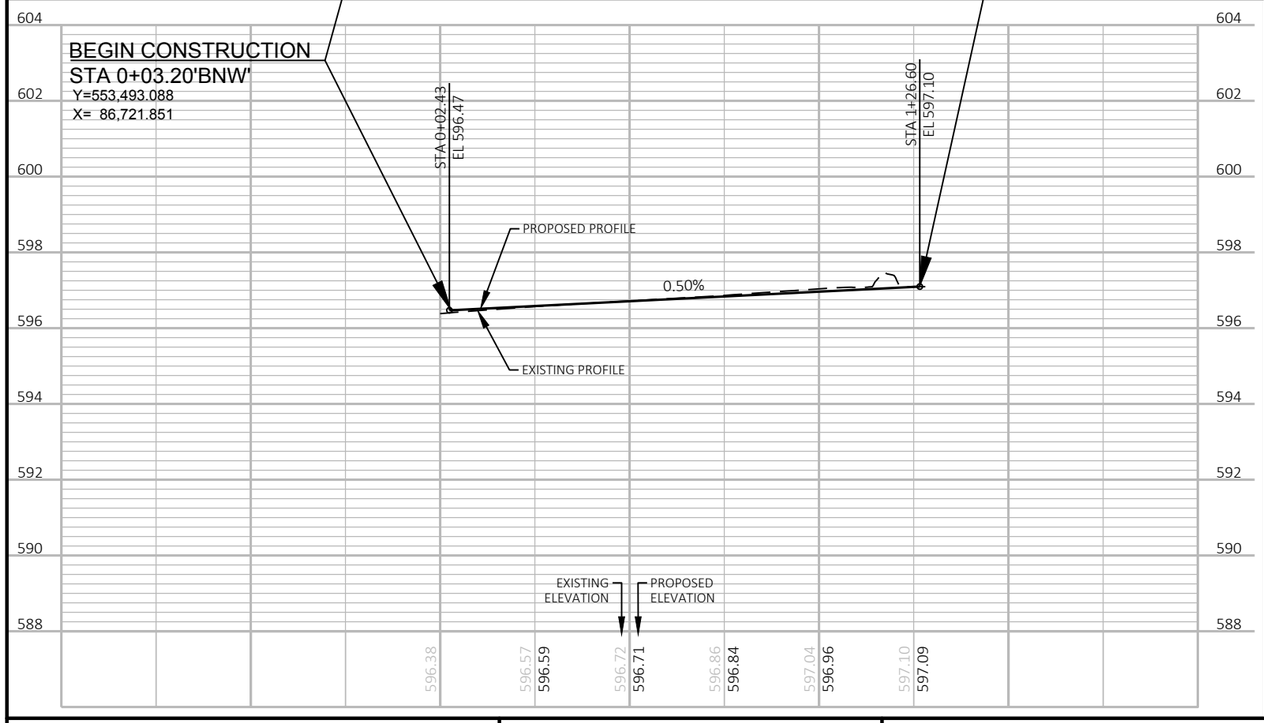
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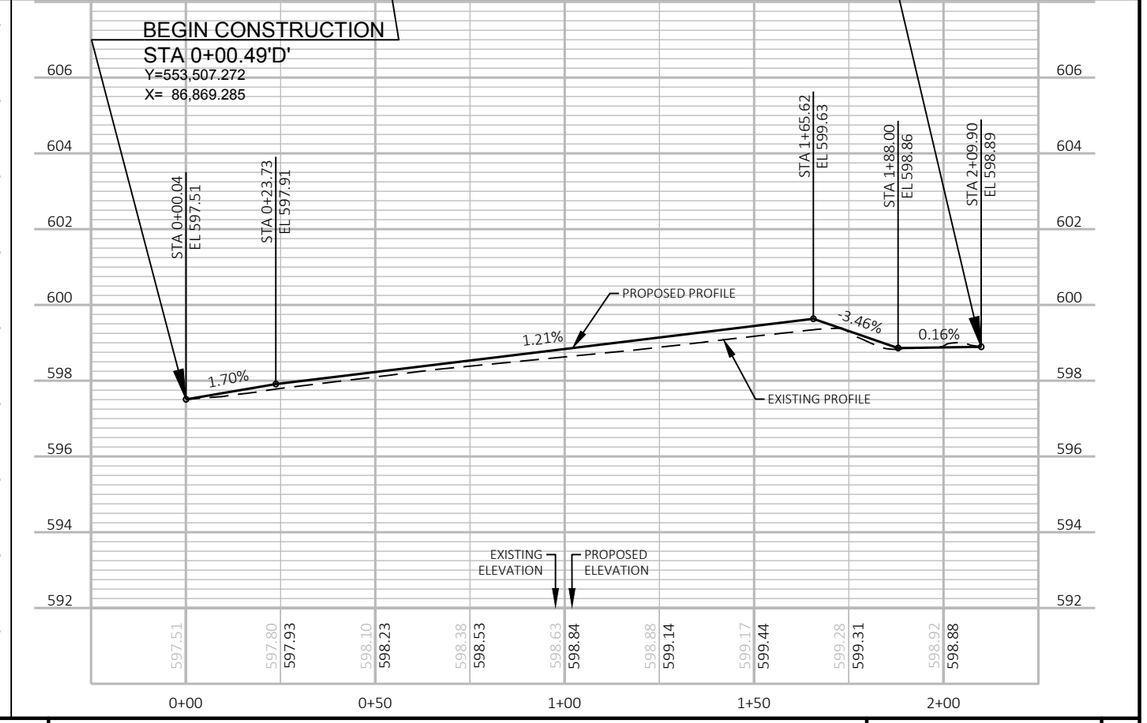
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PROJECT NO: 9266-11-03	HWY: CTH HH	COUNTY: BROWN	PLAN AND PROFILE: MISCELLANEOUS ALIGNMENTS	SHEET 90	E

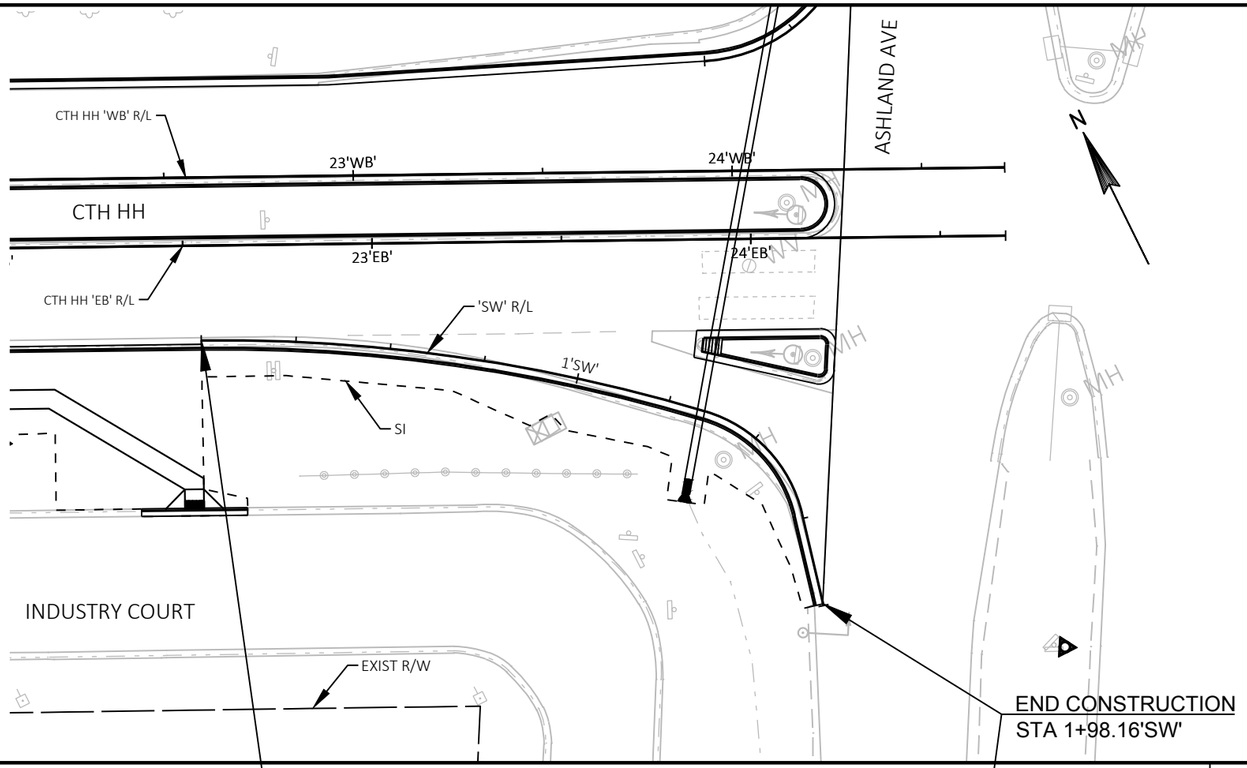


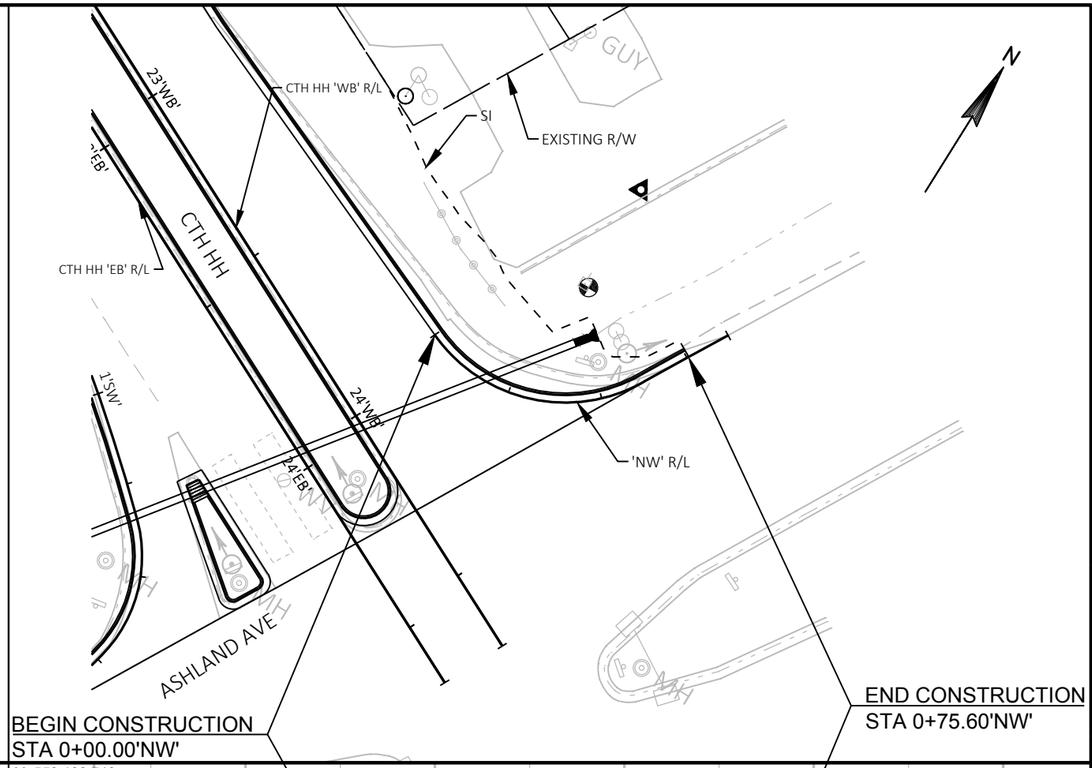


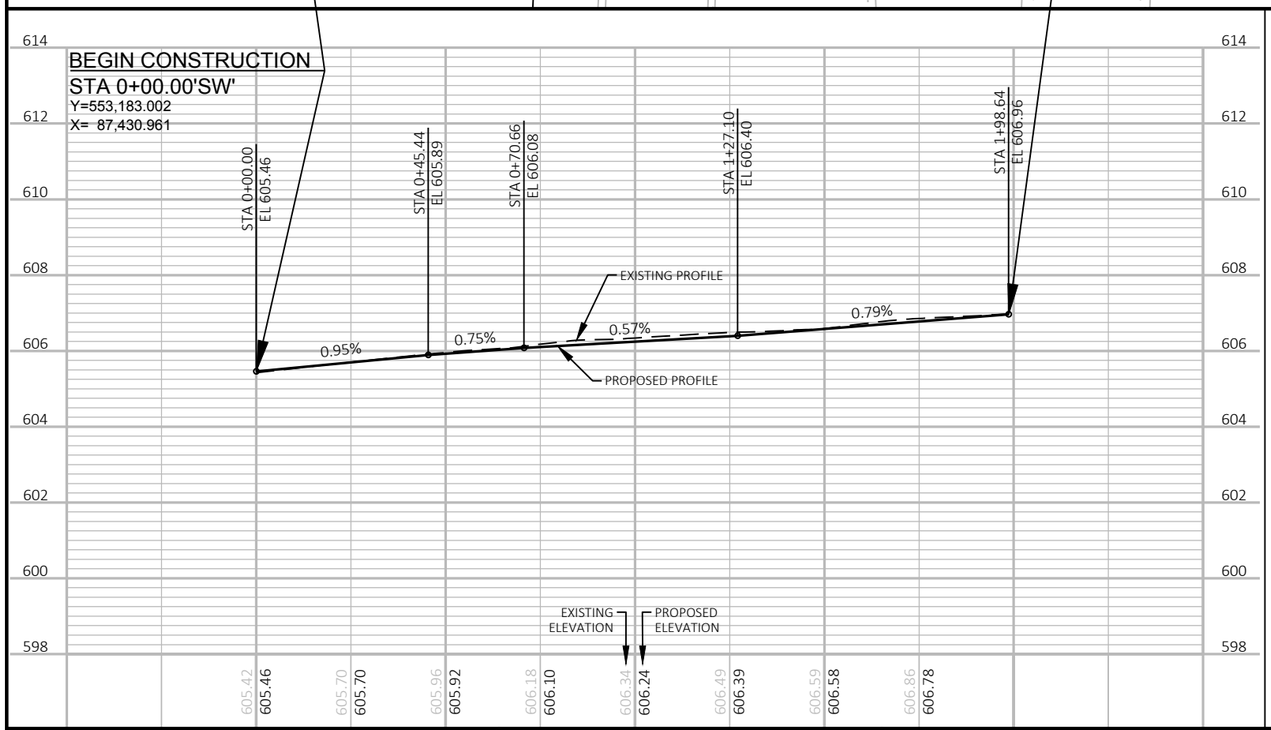


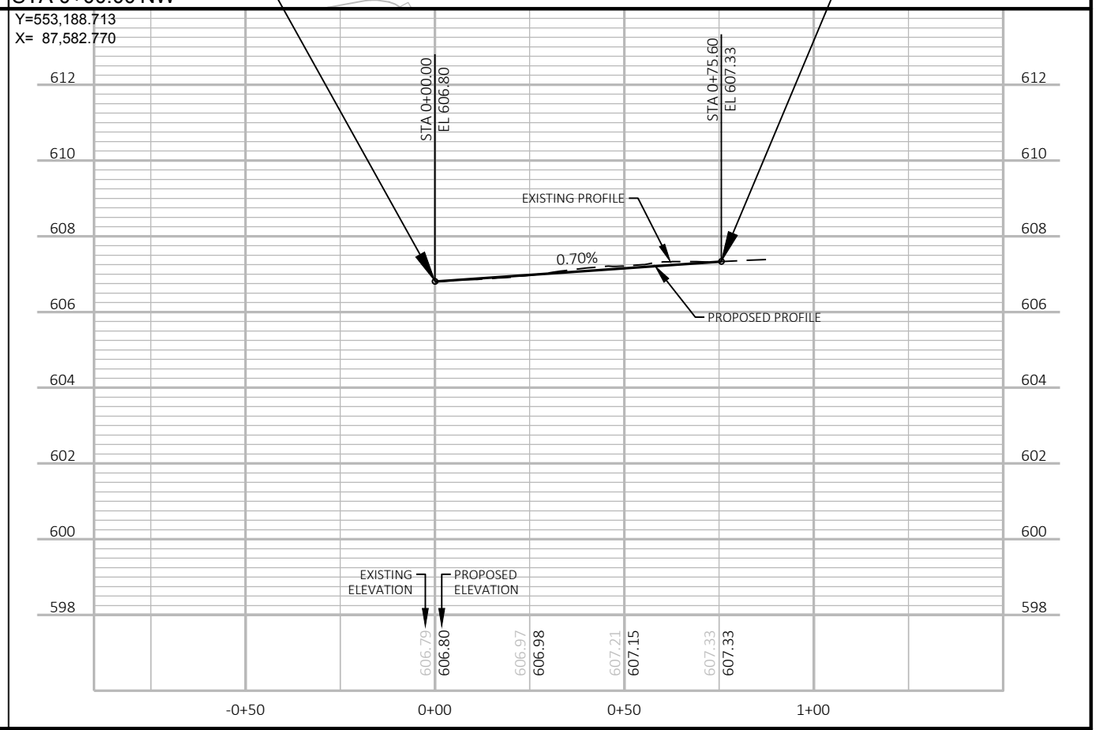


PROJECT NO: 9266-11-03	HWY: CTH HH	COUNTY: BROWN	PLAN AND PROFILE: MISCELLANEOUS ALIGNMENTS	SHEET 91	E









PROJECT NO: 9266-11-03	HWY: CTH HH	COUNTY: BROWN	PLAN AND PROFILE: MISCELLANEOUS ALIGNMENTS	SHEET 92	E

FILE NAME : P:\60543140\900_CAD_GIS\910_CAD\92661102\SHEETSPLAN\050103_PP.DWG
LAYOUT NAME - 8

PLOT DATE : 9/25/2019 1:20 PM

PLOT BY : ERICSON, SARAH

PLOT NAME :

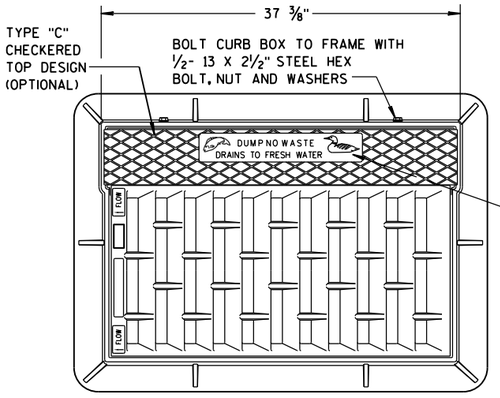
PLOT SCALE : 1 IN:40 FT

WISDOT/CADDS SHEET 44

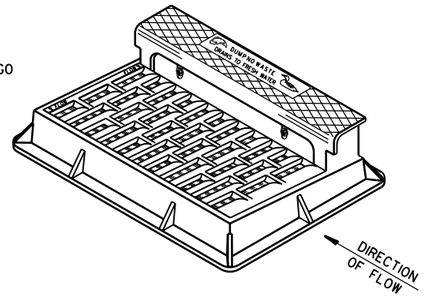
Standard Detail Drawing List

08A05-19A	INLET COVERS TYPE A, H, A-S, H-S & Z
08A05-19B	INLET COVERS TYPE B, B-A, C, MS, MS-A, & WM
08A05-19D	INLET COVER TYPE BW, MANHOLE COVERS, TYPE K, J, J-S, L & M
08B09-02	MANHOLES 3-FT, 4-FT, 5-FT, 6-FT, 7-FT AND 8-FT DIAMETER
08C06-02	INLETS 3-FT AND 4-FT DIAMETER
08C07-02	INLETS 2X2-FT, 2X2.5-FT, 2X3-FT AND 2.5X3-FT
08D01-20A	CONCRETE CURB & GUTTER
08D01-20B	CONCRETE CURB, TIES AND CURB AND GUTTER APPLICATIONS
08D04-05	CONCRETE SURFACE DRAINS & ASPHALTIC FLUMES
08D05-20A	CURB RAMPS TYPES 1 AND 1-A
08D05-20B	CURB RAMPS TYPES 2 AND 3
08D05-20C	CURB RAMPS TYPES 4A AND 4A1
08D05-20D	CURB RAMPS TYPE 4B AND 4B1
08D05-20E	CURB RAMPS TYPES 5, 6, 7A, 7B & 8
08D05-20F	CURB RAMPS RADIAL DETECTABLE WARNING FIELD APPLICATIONS
08D05-20G	CURB RAMPS RECTANGULAR AND RADIAL DETECTABLE WARNING PLATES
08E08-03	TYPICAL INSTALLATIONS OF EROSION BALES / TEMPORARY DITCH CHECKS
08E09-06	SILT FENCE
08E10-02	INLET PROTECTION TYPE A, B, C AND D
08E14-01	TRACKING PAD
08F01-11	APRON ENDWALLS FOR CULVERT PIPE
08F04-07	JOINT TIES FOR CONCRETE PIPE AND CONCRETE COLLAR DETAIL
09B02-10	CONDUIT
09B16-01	PULL BOX NON-CONDUCTIVE
09C02-09	CONCRETE BASES, TYPES 1, 2, 5, & 6
09C03-04	TRANSFORMER/PEDESTAL BASES
09F15-04B	LOOP DETECTOR INSTALLED IN BASE COURSE WITH PULL (SPLICE) BOX OFF ROADWAY (OPTION 2)
11B02-02	CONCRETE MEDIAN NOSE
13C19-01	HMA LONGITUDINAL JOINTS
15A03-02A	FLEXIBLE MARKER POST FOR CULVERT END
15A03-02B	FLEXIBLE MARKER POST FOR CULVERT END
15C02-07A	BARRICADES AND SIGNS FOR MAINLINE CLOSURES
15C02-07B	BARRICADES AND SIGNS FOR VARIOUS CLOSURES
15C02-07C	DETOUR SIGNING FOR MAINLINE CLOSURES
15C07-14B	PAVEMENT MARKING WORDS
15C07-14C	PAVEMENT MARKING ARROWS
15C08-19A	LONGITUDINAL MARKING (MAINLINE)
15C08-19C	PAVEMENT MARKING (TURN LANES)
15C11-07B	CHANNELIZING DEVICES DRUMS, CONES, BARRICADES AND VERTICAL PANELS
15C27-03A	DOUBLE ARROW WARNING SIGN PLACEMENT
15C31-03A	PAVEMENT MARKING (RAMPS AND GORES)
15D16-04	TRAFFIC CONTROL, EXIT RAMP CLOSURE
15D38-02A	TEMPORARY TRAFFIC CONTROL SIGN MOUNTING
15D38-02B	ATTACHMENT OF SIGNS TO POSTS

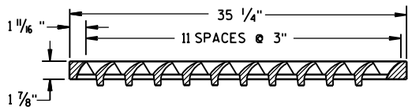
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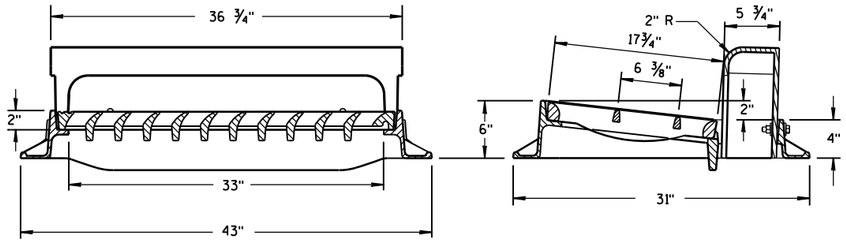


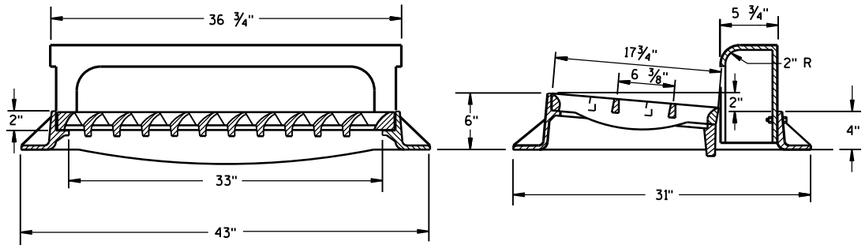
NOTE:
GRATE IS REVERSIBLE.



NOTE: CURB BOX HEIGHT ADJUSTABLE 6" TO 9"

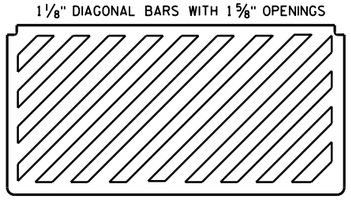






TYPE "H"

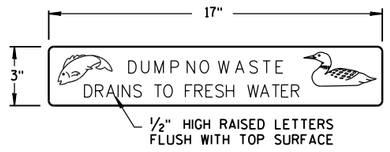
NOTE: EITHER CASTING IS ACCEPTABLE



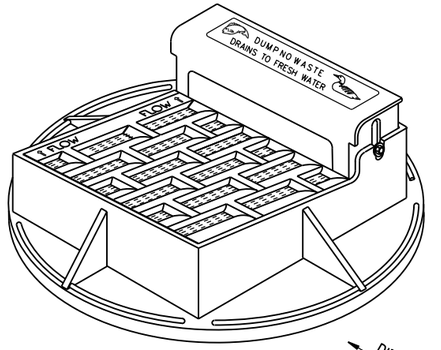
SPECIAL GRATE FOR TYPE "H" COVER

(MEASURES 35 1/4" X 17 3/4" X 2")

(NOTED AS TYPE H-S ON DRAINAGE TABLE)



LOGO DETAIL



NOTE: CURB BOX ADJUSTABLE 4" TO 9"

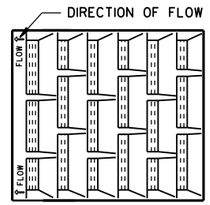
NOTE:
GRATE IS REVERSIBLE.

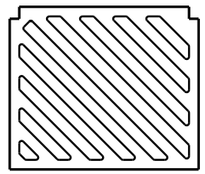
GENERAL NOTES

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.

DETAIL DRAWINGS FOR PROPOSED ALTERNATE DESIGNS FOR CATCH BASIN, MANHOLE AND INLET COVERS SHALL BE SUBMITTED TO THE ENGINEER FOR APPROVAL PROVIDING THAT SUCH ALTERNATE DESIGNS MAKE PROVISION FOR EQUIVALENT CAPACITY AND STRENGTH.

ROUND FRAMES AND COVERS SHALL HAVE CONTINUOUSLY MACHINED BEARING SURFACES TO PREVENT ROCKING AND RATTLING.

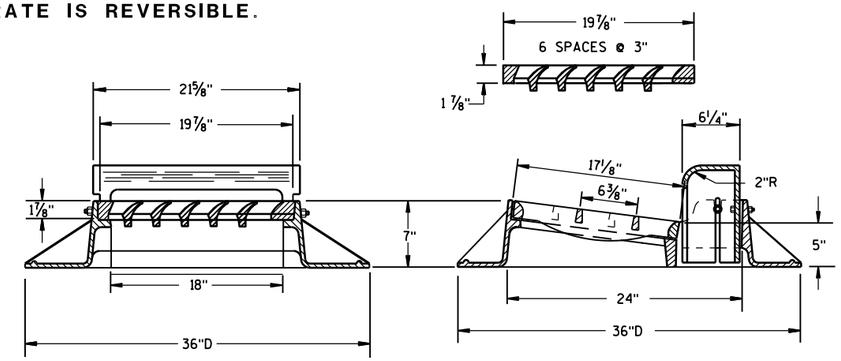




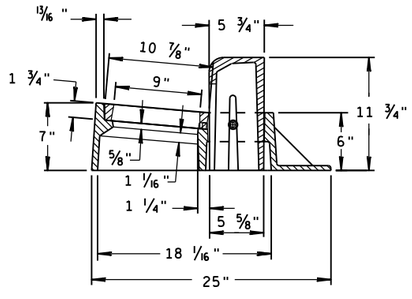
SPECIAL GRATE FOR TYPE "A" COVER

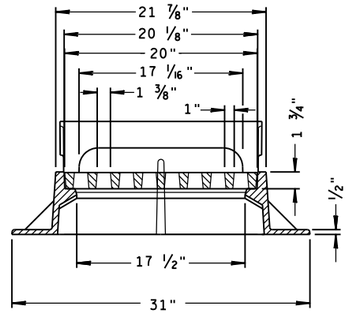
(MEASURES 19 3/4" X 17" X 1 7/8")

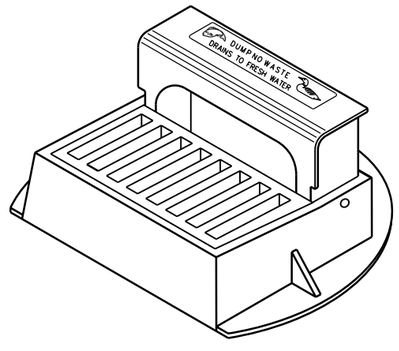
(NOTED AS TYPE A-S ON DRAINAGE TABLE)



TYPE "A"







TYPE "Z"

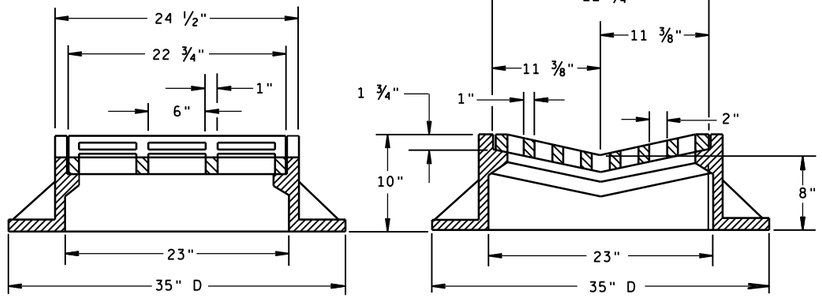
INLET COVERS
TYPE A, H, A-S, H-S & Z

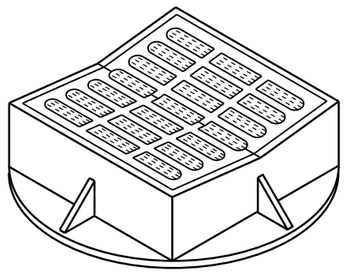
STATE OF WISCONSIN
DEPARTMENT OF TRANSPORTATION

APPROVED
11-27-13 — DATE
/S/ Jerry H. Zogg — ROADWAY STANDARDS ENGINEER
FHWA

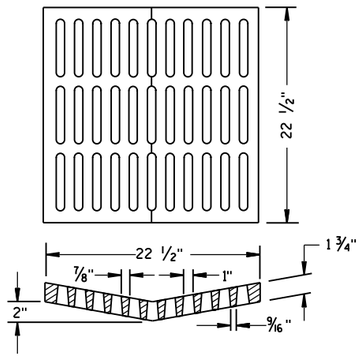
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S.D.D. 8 A 5-19a





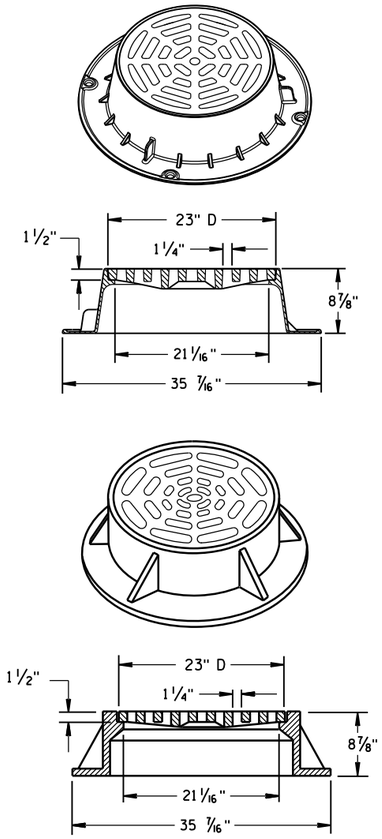
TYPE "B"



ALTERNATIVE GRATE FOR TYPE "B" COVER

USE WHERE PEDESTRIAN OR BICYCLE TRAFFIC IS POSSIBLE.

NOTED AS TYPE B-A ON THE DRAINAGE TABLE



TYPE "C"

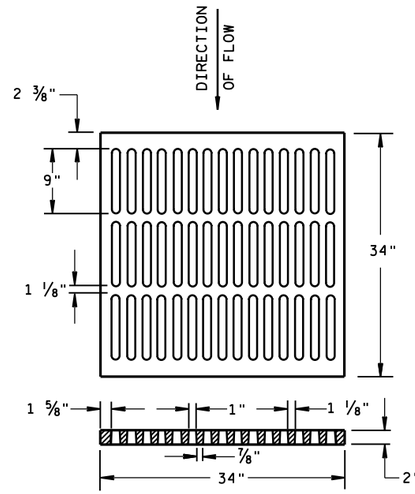
NOTE: EITHER CASTING IS ACCEPTABLE

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.

DETAIL DRAWINGS FOR PROPOSED ALTERNATE DESIGNS FOR CATCH BASIN, MANHOLE AND INLET COVERS SHALL BE SUBMITTED TO THE ENGINEER FOR APPROVAL PROVIDING THAT SUCH ALTERNATE DESIGNS MAKE PROVISION FOR EQUIVALENT CAPACITY AND STRENGTH.

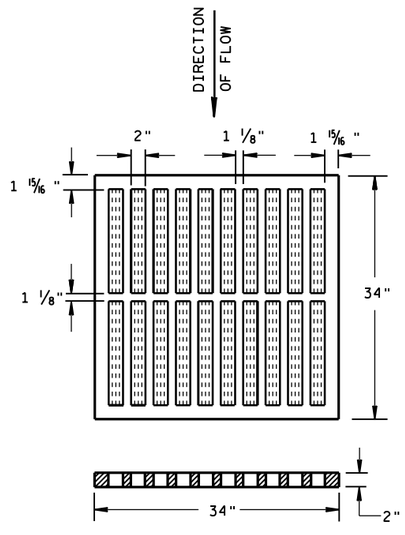
ROUND FRAMES AND COVERS SHALL HAVE CONTINUOUSLY MACHINED BEARING SURFACES TO PREVENT ROCKING AND RATTLING.



ALTERNATIVE TYPE "MS"

USE WHERE PEDESTRIAN OR BICYCLE TRAFFIC IS PERMITTED

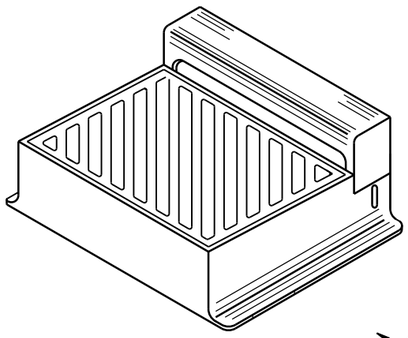
NOTED AS TYPE MS-A ON THE DRAINAGE TABLE



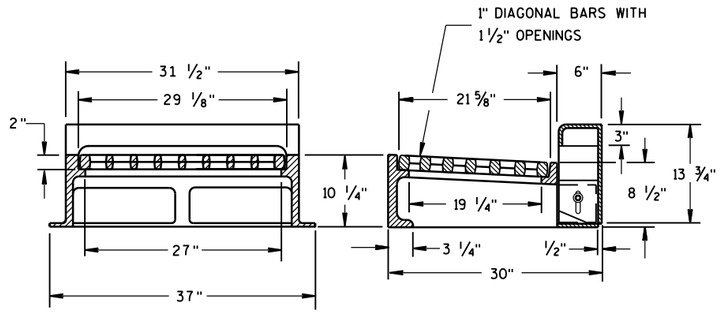
TYPE "MS"

USE ON FREEWAYS AND EXPRESSWAYS

NOTED AS TYPE MS ON DRAINAGE TABLE



DIAGONAL SLOTS, SHALL BE ORIENTED TO THE DIRECTION OF FLOW AS ILLUSTRATED. GRATES ARE MANUFACTURED TO BE REVERSIBLE.



NOTE: CURB BOX HEIGHT ADJUSTABLE 6" TO 9"

TYPE "WM"

INLET COVERS
TYPE B, B-A, C, MS, MS-A, & WM

STATE OF WISCONSIN
DEPARTMENT OF TRANSPORTATION

APPROVED

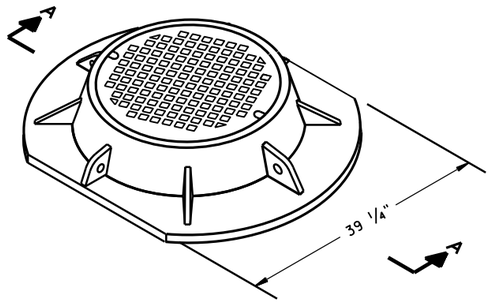
11/27/2013 — DATE

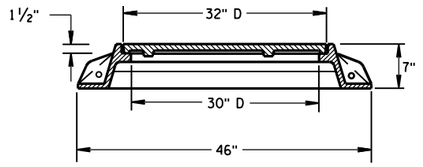
/S/ Jerry H. Zogg — ROADWAY STANDARDS ENGINEER

FHWA

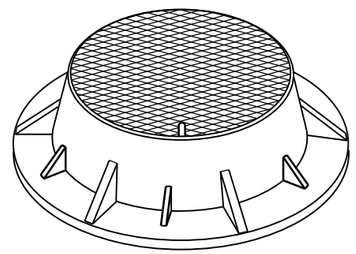
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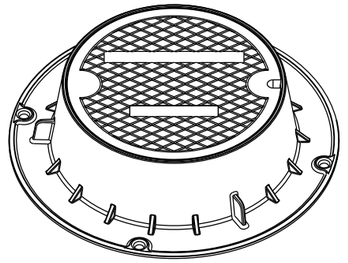
S.D.D. 8 A 5-19b

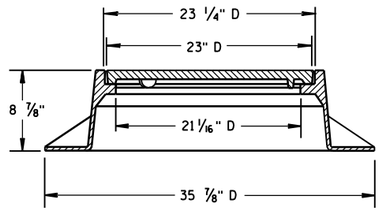


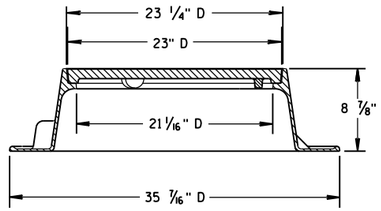


SECTION A-A
TYPE "K"









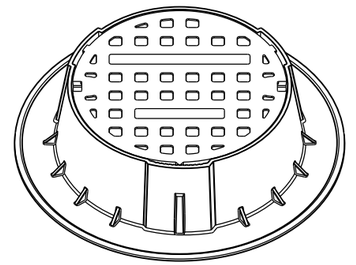
TYPE "J"
NOTE: EITHER CASTING IS ACCEPTABLE

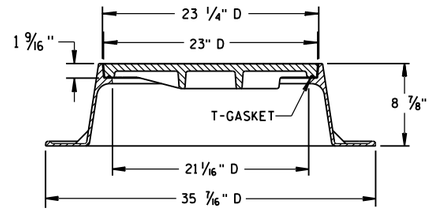
GENERAL NOTES

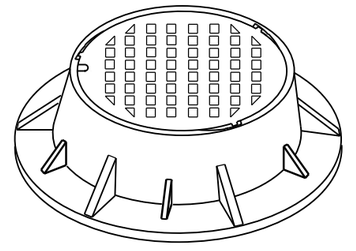
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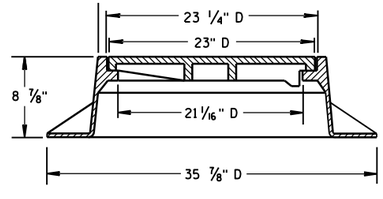
DETAIL DRAWINGS FOR PROPOSED ALTERNATE DESIGNS FOR MANHOLE COVERS SHALL BE SUBMITTED TO THE ENGINEER FOR APPROVAL PROVIDING THAT SUCH ALTERNATE DESIGNS MAKE PROVISION FOR EQUIVALENT CAPACITY AND STRENGTH.

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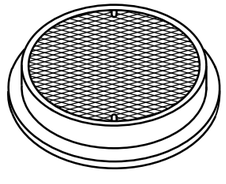


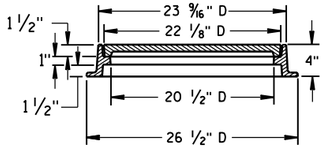




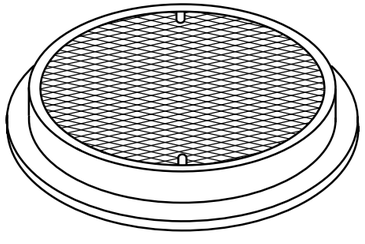


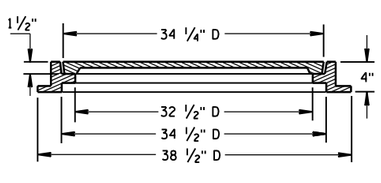
TYPE "J" SPECIAL
TYPE "B" NON-ROCKING SELF-SEAL LID
(NOTED AS TYPE J-S ON THE DRAINAGE TABLE)
NOTE: EITHER CASTING IS ACCEPTABLE



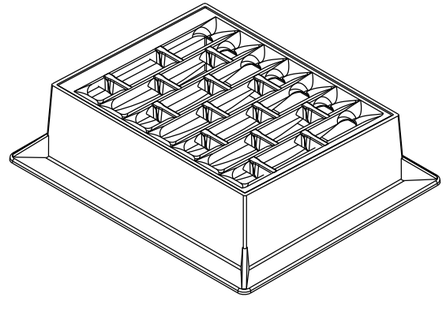


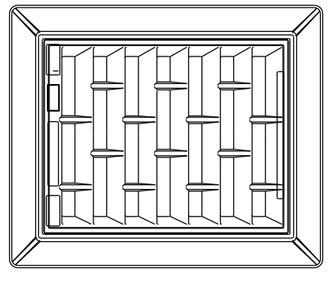
TYPE "L"

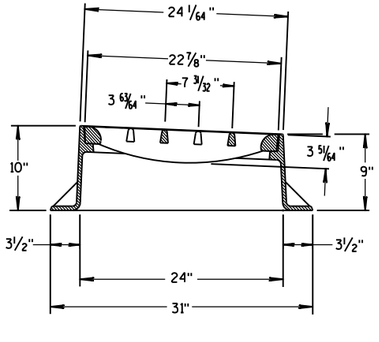


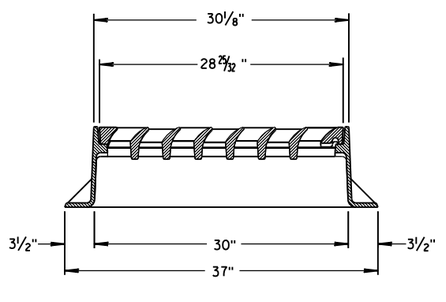


TYPE "M"









INLET COVER TYPE "BW"

INLET COVER TYPE BW
MANHOLE COVERS, TYPE K, J, J-S, L & M

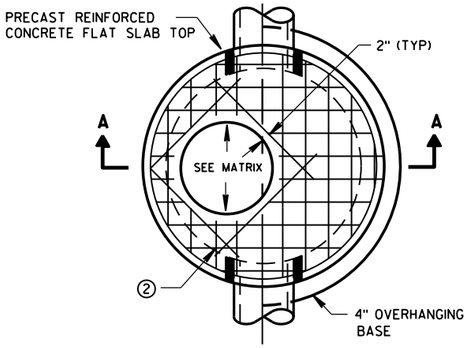
STATE OF WISCONSIN
DEPARTMENT OF TRANSPORTATION

APPROVED
11/27/2013
DATE
FHWA

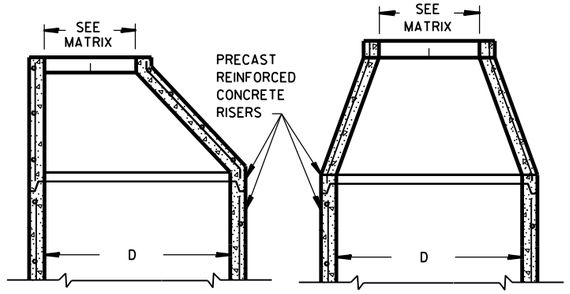
/S/ Jerry H. Zogg
ROADWAY STANDARDS DEVELOPMENT ENGINEER

6

S.D.D. 8 A 5-19d

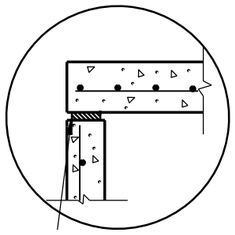


PLAN VIEW CIRCULAR OPENING

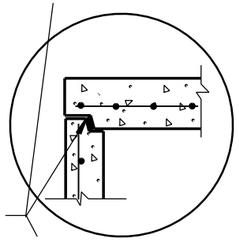


OPTIONAL PRECAST REINFORCED CONCRETE ECCENTRIC TOP

OPTIONAL PRECAST REINFORCED CONCRETE CONCENTRIC TOP

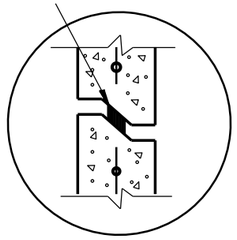


TOP WITH PLAIN END JOINT



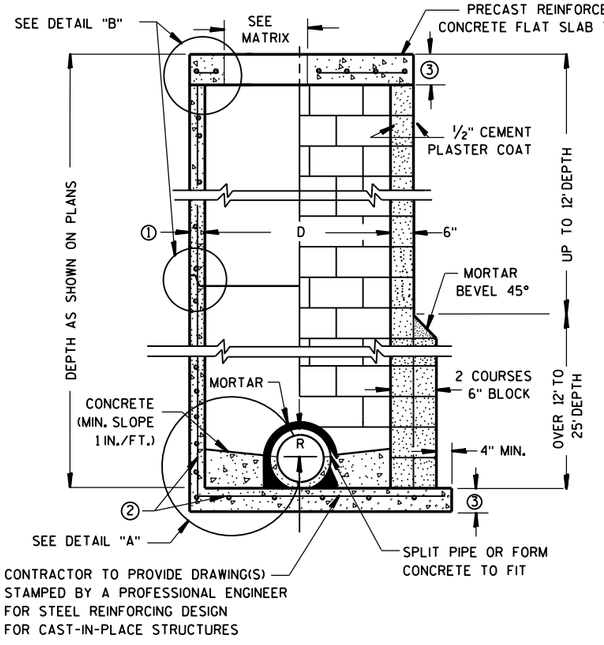
JOINTS TO BE SEALED WITH A BUTYL RUBBER SEAL PER SEALANT MANUFACTURERS RECOMMENDATIONS CONFORMING TO ASTM C990 (TYP)

TOP WITH TONGUE AND GROOVE JOINT



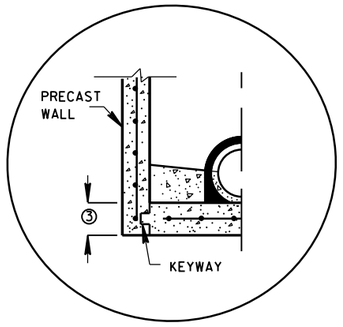
RISER WITH TONGUE AND GROOVE JOINT

DETAIL "B"

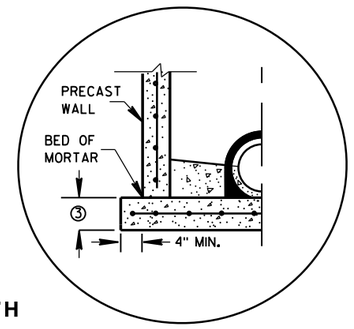


PRECAST REINFORCED CONCRETE WITH MONOLITHIC BASE

CONCRETE BLOCK WITH CAST-IN-PLACE OR PRECAST REINFORCED CONCRETE BASE ②

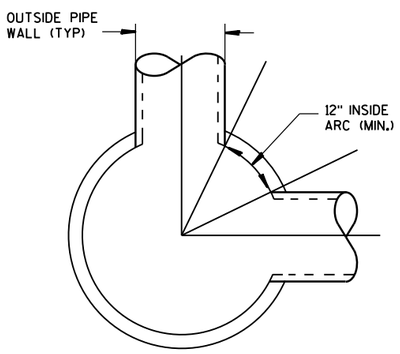


PRECAST REINFORCED CONCRETE WITH INTEGRAL BASE OPTION



SEPARATE PRECAST REINFORCED CONCRETE BASE OPTION

DETAIL "A"



DETAIL "C"

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.

UNLESS OTHERWISE AUTHORIZED IN WRITING BY THE ENGINEER, THE CONTRACTOR SHALL NOT ORDER AND DELIVER PRECAST MANHOLE UNITS REQUIRED FOR THE PROJECT UNTIL A LIST OF SIZES IS FURNISHED BY THE ENGINEER.

DETAILED DRAWINGS FOR PROPOSED ALTERNATE DESIGNS FOR UNDERGROUND DRAINAGE STRUCTURES SHALL BE SUBMITTED TO THE ENGINEER FOR APPROVAL PROVIDING THAT SUCH ALTERNATE DESIGNS MAKE PROVISION FOR EQUIVALENT CAPACITY AND STRENGTH.

ALL DRAINAGE STRUCTURES ARE DESIGNATED ON THE PLANS AS "MANHOLES 3X3-L", "CATCH BASINS 4-B", "INLETS 2X3-H", ETC. THE FIRST NUMBERS DESIGNATE THE SIZE OF THE STRUCTURE, AND THE FOLLOWING LETTER DESIGNATES THE TYPE OF COVER TO BE USED TO COMPRISE THE COMPLETE UNIT.

BASES SHALL BE PLACED ON A BED OF MATERIAL AT LEAST 6 INCHES IN DEPTH, WHICH MEETS THE REQUIREMENTS OF FOUNDATION BACKFILL. THIS BEDDING SHALL BE COMPACTED AND PROVIDE UNIFORM SUPPORT FOR THE ENTIRE AREA OF THE BASE.

PRECAST REINFORCED CONE TOPS (ECCENTRIC OR CONCENTRIC) OR PRECAST REINFORCED FLAT SLAB TOPS MAY BE USED ON CONCRETE BLOCK STRUCTURES.

ECCENTRIC CONE TOPS MAY BE USED ON ALL STRUCTURES, AND CONCENTRIC CONE TOPS SHALL BE USED ONLY ON STRUCTURES 5 FEET OR LESS IN DEPTH, UNLESS OTHERWISE DIRECTED BY THE ENGINEER.

STEPS MEETING AASHTO M199 AND THE FOLLOWING REQUIREMENTS SHALL BE INSTALLED IN ALL STRUCTURES OVER 5 FEET IN DEPTH: 16 INCH C-C MAXIMUM SPACING; PROJECT A MINIMUM CLEAR DISTANCE OF 4 INCHES FROM THE WALL AT THE POINT OF EMBEDMENT; MINIMUM LENGTH OF 10 INCHES; MINIMUM WALL EMBEDMENT OF 3 INCHES. FERROUS METAL STEPS NOT PAINTED OR TREATED TO RESIST CORROSION SHALL HAVE A MINIMUM CROSS SECTIONAL DIMENSION OF 1 INCH.

STEPS OF APPROVED POLYPROPYLENE PLASTIC COATED REINFORCEMENT BAR ARE ACCEPTABLE. REINFORCING BAR MUST BE A MINIMUM OF ½" AND MEET THE REQUIREMENTS OF ASTM A615.

CERTIFICATION SHALL BE PROVIDED THAT INSTALLED STEPS WHEN TESTED IN ACCORDANCE WITH SECTION 10 OF AASHTO T280 CAN WITHSTAND A VERTICAL LOAD OF 800 LBS. AND A HORIZONTAL LOAD OF 400 LBS.

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

CONCRETE BLOCK WILL NOT BE PERMITED FOR STRUCTURES GREATER THAN 4 FEET IN DIAMETER.

PRECAST REINFORCED RISERS SHALL HAVE A TONGUE AND GROOVE JOINT WITH TONGUE UP OR DOWN.

ALL PRECAST MANHOLE UNITS SHALL CONFORM TO THE PERTINENT REQUIREMENTS OF AASHTO DESIGNATION M 199.

4" OVERHANGING BASES ARE REQUIRED FOR ALL CONCRETE BLOCK INSTALLATIONS. 4" OVERHANG IS REQUIRED WHEN SEPARATE PRECAST BASE IS PROVIDED. OVERHANG IS NOT REQUIRED ON PRECAST STRUCTURES WITH AN INTEGRAL OR MONOLITHIC BASE.

FOR ADDITIONAL CONFIGURATIONS, MAINTAIN A MINIMUM OF 12 INCHES AS MEASURED FROM THE INSIDE OF THE STRUCTURE WALL BETWEEN THE OUTSIDE PIPE WALLS OF ADJACENT PIPES. SEE DETAIL "C".

① MINIMUM WALL THICKNESS SHALL BE 4 INCHES FOR 3-FT, 5 INCHES FOR 4-FT, 6 INCHES FOR 5-FT, 7 INCHES FOR 6-FT, 8 INCHES FOR 7-FT AND 9 INCHES FOR 8-FT DIAMETER PRECAST MANHOLES.

② FOR PRECAST MANHOLES PROVIDE REINFORCING STEEL IN ACCORDANCE TO AASHTO M199.

③ PRECAST FLAT SLAB TOPS AND BASES WITH A DIAMETER OF 48" AND LESS SHALL HAVE A MINIMUM THICKNESS OF 6". PRECAST FLAT SLAB TOPS AND BASES WITH A DIAMETER LARGER THAN 48" SHALL HAVE A MINIMUM THICKNESS OF 8".

MANHOLE COVER OPENING MATRIX

MANHOLE COVER TYPE	C	ALL J'S	K	L	M
OPENING SIZE (FT)					
2 DIA.	X	X		X	
3 DIA.			X		X

PIPE MATRIX

MANHOLE SIZE	MAXIMUM INSIDE PIPE DIAMETER FOR TWO PIPES	
	180° SEPARATION (IN)	90° SEPARATION (IN)
3-FT	15	12
4-FT	24	18
5-FT	36	24
6-FT	42	36
7-FT	48	36
8-FT	60	42

MANHOLES 3-FT, 4-FT, 5-FT, 6-FT, 7-FT AND 8-FT DIAMETER

STATE OF WISCONSIN
DEPARTMENT OF TRANSPORTATION

APPROVED

Sept., 2016
DATE

/S/ Rodney Taylor
ROADWAY STANDARDS DEVELOPMENT
UNIT SUPERV 97

FHWA

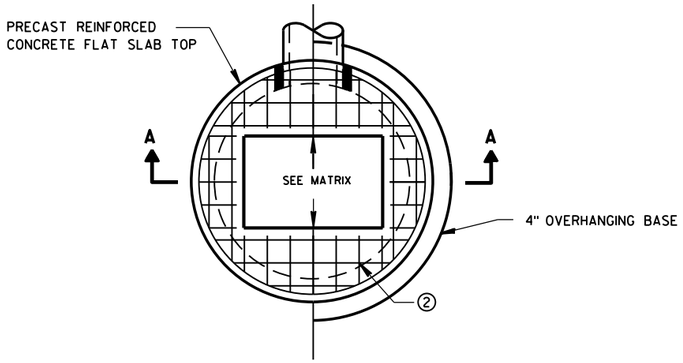
MANHOLES 3-FT, 4-FT, 5-FT, 6-FT, 7-FT AND 8-FT DIAMETER

6

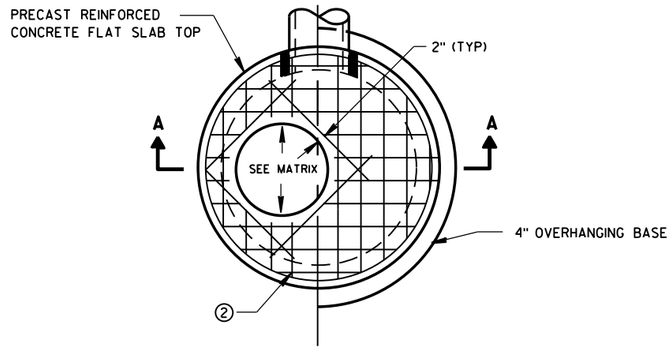
S.D.D. 8 B 9-2

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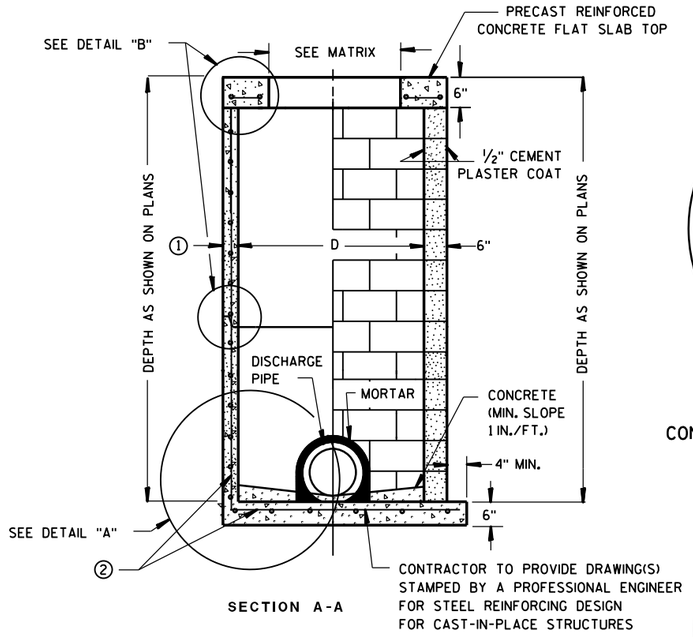
S.D.D. 8 B 9-2



PLAN VIEW RECTANGULAR OPENING



PLAN VIEW CIRCULAR OPENING

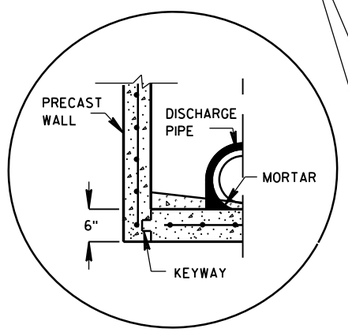


SECTION A-A

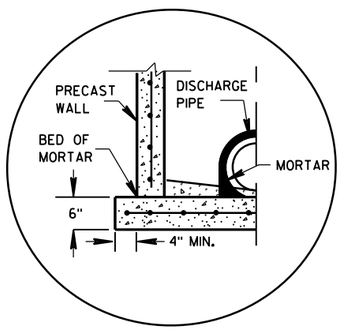
PRECAST REINFORCED CONCRETE WITH MONOLITHIC BASE

CONCRETE BLOCK WITH CAST-IN-PLACE OR PRECAST REINFORCED CONCRETE BASE ②

CIRCULAR INLETS W/ FLAT TOP

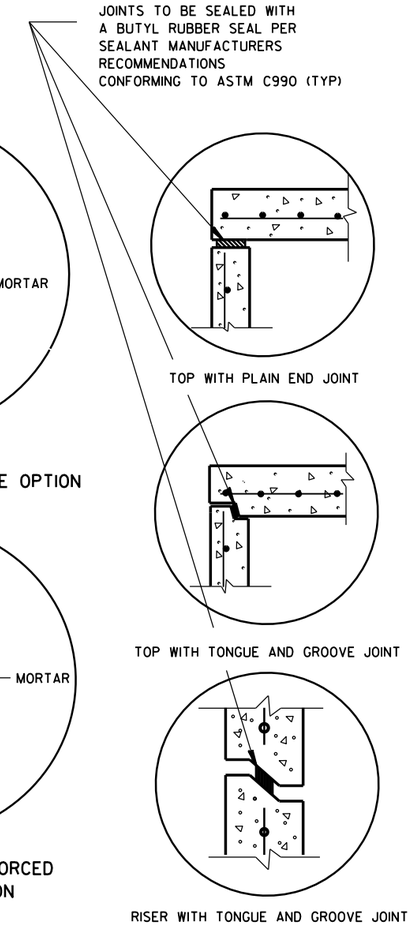


PRECAST REINFORCED
CONCRETE WITH INTEGRAL BASE OPTION



SEPARATE PRECAST REINFORCED
CONCRETE BASE OPTION

DETAIL "A"



DETAIL "B"

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.

UNLESS OTHERWISE AUTHORIZED IN WRITING BY THE ENGINEER, THE CONTRACTOR SHALL NOT ORDER AND DELIVER PRECAST INLET UNITS REQUIRED FOR THE PROJECT UNTIL A LIST OF SIZES IS FURNISHED BY THE ENGINEER.

DETAILED DRAWINGS FOR PROPOSED ALTERNATE DESIGNS FOR UNDERGROUND DRAINAGE STRUCTURES SHALL BE SUBMITTED TO THE ENGINEER FOR APPROVAL PROVIDING THAT SUCH ALTERNATE DESIGNS MAKE PROVISION FOR EQUIVALENT CAPACITY AND STRENGTH.

ALL DRAINAGE STRUCTURES ARE DESIGNATED ON THE PLANS AS "MANHOLES 3X3-L", "CATCH BASINS 4-B", "INLETS 2X3-H", ETC. THE FIRST NUMBERS DESIGNATE THE SIZE OF THE STRUCTURE, AND THE FOLLOWING LETTER DESIGNATES THE TYPE OF COVER TO BE USED TO COMPRISE THE COMPLETE UNIT.

BASES SHALL BE PLACED ON A BED OF MATERIAL AT LEAST 6 INCHES IN DEPTH, WHICH MEETS THE REQUIREMENTS OF FOUNDATION BACKFILL. THIS BEDDING SHALL BE COMPACTED AND PROVIDE UNIFORM SUPPORT FOR THE ENTIRE AREA OF THE BASE.

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

ALL PRECAST INLET UNITS SHALL CONFORM TO THE PERTINENT REQUIREMENTS OF AASHTO DESIGNATION M199.

PRECAST REINFORCED RISERS SHALL HAVE A TONGUE AND GROOVE JOINT WITH TONGUE UP OR DOWN.

4" OVERHANGING BASES ARE REQUIRED FOR ALL CONCRETE BLOCK INSTALLATIONS. 4" OVERHANG IS REQUIRED WHEN SEPARATE PRECAST BASE IS PROVIDED. OVERHANG IS NOT REQUIRED ON PRECAST STRUCTURES WITH AN INTEGRAL OR MONOLITHIC BASE.

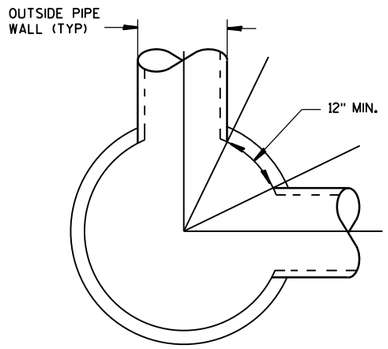
FOR ADDITIONAL CONFIGURATIONS, MAINTAIN A MINIMUM OF 12 INCHES AS MEASURED FROM THE INSIDE OF THE STRUCTURE WALL BETWEEN THE OUTSIDE PIPE WALLS OF ADJACENT PIPES. SEE DETAIL "C".

① MINIMUM WALL THICKNESS SHALL BE 4-IN FOR 3-FT DIAMETER AND 5-IN FOR 4-FT DIAMETER PRECAST INLETS.

② FOR PRECAST CATCH BASINS PROVIDE REINFORCING STEEL IN ACCORDANCE TO AASHTO M199.

INLET COVER OPENING MATRIX

	INLET COVER TYPE	ALL A'S	ALL B'S	BW	C	F	ALL H'S	S	T	V	WM	Z
INLET SIZE	OPENING SIZE (FT)											
3-FT	2 DIA.				X							X
	2X2	X	X					X		X		
4-FT	2 DIA.				X							X
	2X2	X	X					X		X		
	2X2.5			X				X	X	X	X	
	2X3						X					
	2.5X3					X						



DETAIL "C"

PIPE MATRIX

INLET SIZE	MAXIMUM INSIDE PIPE DIAMETER FOR TWO PIPES	
	180° SEPARATION (IN)	90° SEPARATION (IN)
3-FT	15	12
4-FT	24	18

INLETS 3-FT AND 4-FT DIAMETER

STATE OF WISCONSIN
DEPARTMENT OF TRANSPORTATION

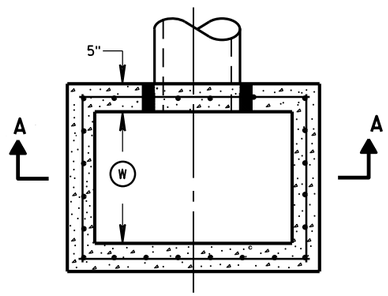
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FHWA

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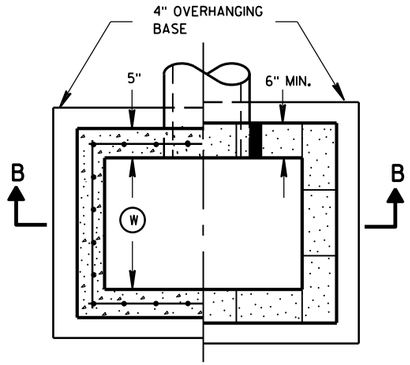
S.D.D. 8 C 6-2

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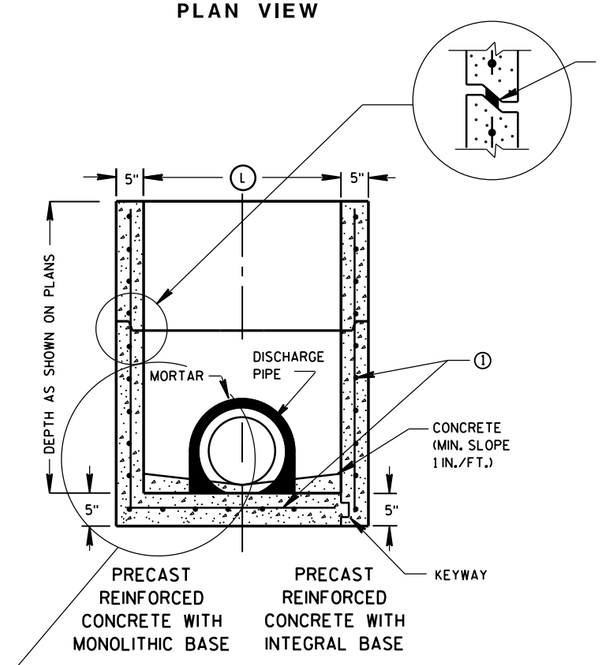
S.D.D. 8 C 6-2



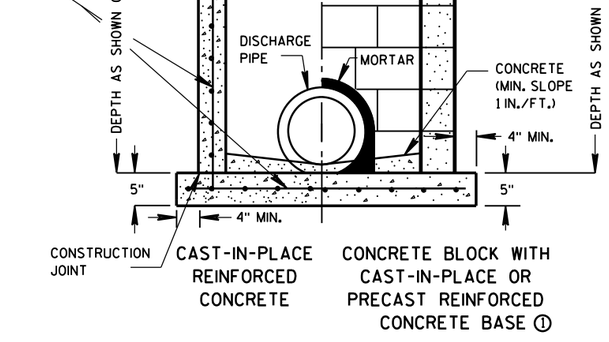
PLAN VIEW



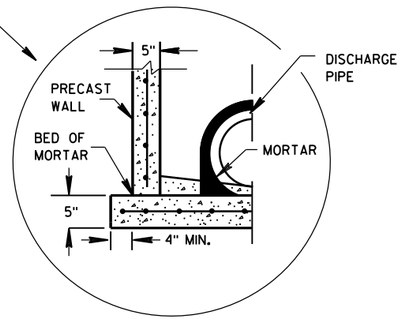
PLAN VIEW



SECTION A-A



SECTION B-B



SEPARATE PRECAST REINFORCED CONCRETE BASE OPTION

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.

UNLESS OTHERWISE AUTHORIZED IN WRITING BY THE ENGINEER, THE CONTRACTOR SHALL NOT ORDER AND DELIVER PRECAST INLET UNITS REQUIRED FOR THE PROJECT UNTIL A LIST OF SIZES IS FURNISHED BY THE ENGINEER.

DETAILED DRAWINGS FOR PROPOSED ALTERNATE DESIGNS FOR UNDERGROUND DRAINAGE STRUCTURES SHALL BE SUBMITTED TO THE ENGINEER FOR APPROVAL PROVIDING THAT SUCH ALTERNATE DESIGNS MAKE PROVISION FOR EQUIVALENT CAPACITY AND STRENGTH.

ALL PRECAST INLET UNITS SHALL CONFORM TO THE PERTINENT REQUIREMENTS OF ASTM C 913.

ALL DRAINAGE STRUCTURES ARE DESIGNATED ON THE PLANS AS "MANHOLES 3X3-L", "CATCH BASINS 4-B", "INLETS 2X3-H", ETC. THE FIRST NUMBERS DESIGNATES THE SIZE OF THE STRUCTURE, AND THE FOLLOWING LETTER DESIGNATES THE TYPE OF COVER TO BE USED TO COMPRISE THE COMPLETE UNIT.

BASES SHALL BE PLACED ON A BED OF MATERIAL AT LEAST 6 INCHES IN DEPTH, WHICH MEETS THE REQUIREMENTS OF FOUNDATION BACKFILL. THIS BEDDING SHALL BE COMPACTED AND PROVIDE UNIFORM SUPPORT FOR THE ENTIRE AREA OF THE BASE.

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

PRECAST REINFORCED RISERS SHALL HAVE A TONGUE AND GROOVE JOINT WITH TONGUE UP OR DOWN.

4" OVERHANGING BASES ARE REQUIRED FOR CAST-IN-PLACE REINFORCED CONCRETE AND CONCRETE BLOCK INSTALLATIONS.
4" OVERHANG IS REQUIRED WHEN SEPARATE PRECAST BASE IS PROVIDED.
OVERHANG IS NOT REQUIRED ON PRECAST STRUCTURES WITH AN INTEGRAL OR MONOLITHIC BASE.

MAXIMUM INSIDE PIPE DIAMETER DETERMINED BY 3 INCH CLEARANCE ON EACH SIDE OF THE OUTSIDE WALL OF THE PIPE. SEE DETAIL "A". ASSUMES PIPE ENTERS PERPENDICULAR TO THE STRUCTURE.

① FOR PRECAST INLETS PROVIDE REINFORCING STEEL IN ACCORDANCE TO ASTM C 913.

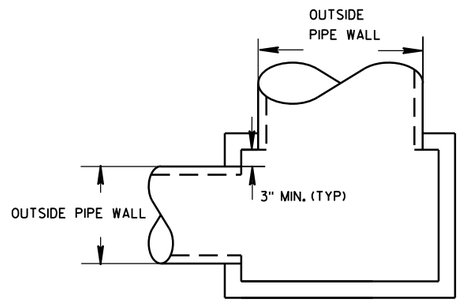
② CONTRACTOR TO PROVIDE DRAWING(S) STAMPED BY A PROFESSIONAL ENGINEER FOR STEEL REINFORCING DESIGN FOR CAST-IN-PLACE STRUCTURES.

INLET COVER MATRIX

INLET SIZE		INLET COVER TYPE	ALL A'S	ALL B'S	BW	F	ALL H'S	S	T	V	WM
	WIDTH (W) (FT)	LENGTH (L) (FT)									
2X2-FT	2	2	X	X				X		X	
2X2.5-FT	2	2.5			X			X	X	X	X
2X3-FT	2	3					X				
2.5X3-FT	2.5	3				X					

PIPE MATRIX

INLET SIZE	MAXIMUM INSIDE PIPE DIAMETER	
	WIDTH (IN)	LENGTH (IN)
2X2-FT	12	12
2X2.5-FT	12	18
2X3-FT	12	24
2.5X3-FT	18	24



DETAIL "A"

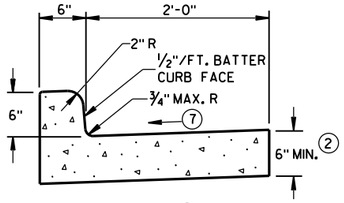
INLETS 2X2-FT, 2X2.5-FT, 2X3-FT AND 2.5X3-FT

STATE OF WISCONSIN
DEPARTMENT OF TRANSPORTATION

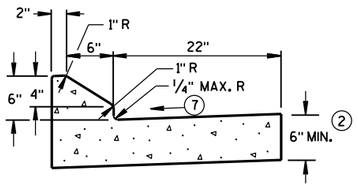
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Sept., 2016 — DATE
/S/ Rodney Taylor
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INLETS 2X2-FT, 2X2.5-FT, 2X3-FT AND 2.5X3-FT

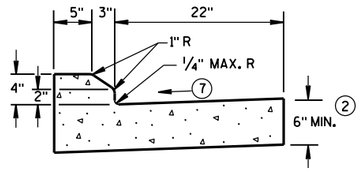
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S.D.D. 8 C 7-2



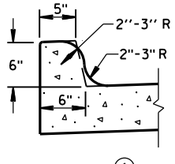
TYPES A (1) & D



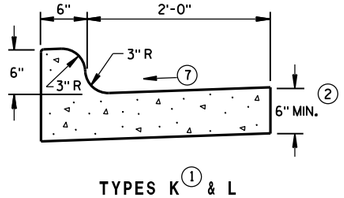
6" SLOPED CURB TYPES G (1) & J



4" SLOPED CURB TYPES G (1) & J

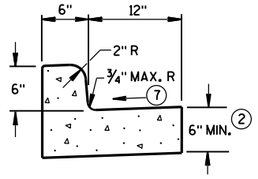


TYPES K (1) & L
(OPTIONAL CURB SHAPE)



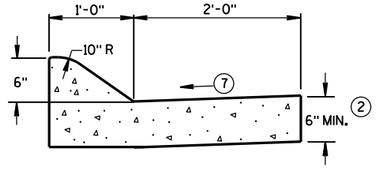
TYPES K (1) & L

CONCRETE CURB & GUTTER 30"

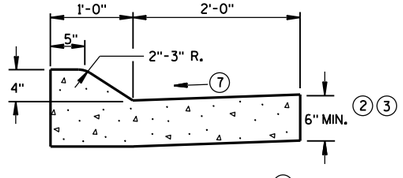


TYPES A (1) & D

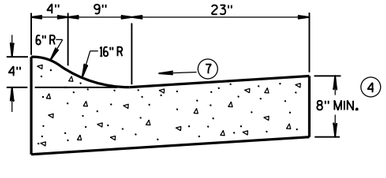
CONCRETE CURB & GUTTER 18"



6" SLOPED CURB TYPES A (1) & D

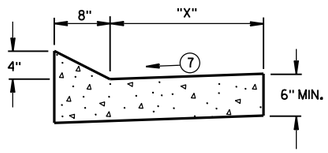


4" SLOPED CURB TYPES A (1) & D



4" SLOPED CURB TYPES R (1) & T (5)

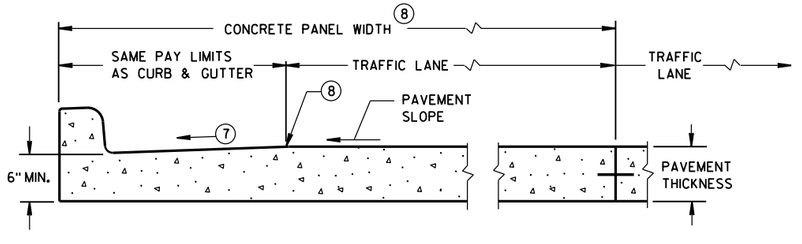
CONCRETE CURB & GUTTER 36"



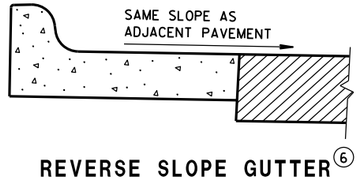
TYPES TBT & TBTT (1)

CONCRETE CURB & GUTTER

TBT & TBTT	"X"
30"	22"
36"	28"



PARTIAL SECTION OF PAVEMENT *
WITH INTEGRAL CURB & GUTTER



REVERSE SLOPE GUTTER (6)
(TYPICAL FOR ALL CURB & GUTTER TYPES)

GENERAL NOTES

DETAILS OF CONSTRUCTION, MATERIALS 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.

INTEGRAL CURB & GUTTER SHALL CONFORM TO THE DETAILS SHOWN FOR CONCRETE CURB & GUTTER INCLUDING THE TRANSVERSE GUTTER SLOPE.

WHERE THE TRANSVERSE JOINTS IN THE PAVEMENT ARE REQUIRED TO BE SEALED, THE JOINTS IN THE INTEGRAL CURB AND GUTTER SHALL BE SEALED TO THE FACE OF CURB WITH THE SAME TYPE OF SEALANT. THE COST OF FURNISHING AND INSTALLING THIS SEALANT SHALL BE INCIDENTAL TO THE ITEM CONCRETE CURB AND GUTTER.

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 GUTTER 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.

(3) USE 8" MINIMUM GUTTER THICKNESS WHEN USED WITH AN ADJACENT CONCRETE TRUCK APRON PLACED BEHIND BACK OF CURB.

(4) THE BOTTOM OF CURB AND GUTTER MAY BE CONSTRUCTED EITHER LEVEL OR PARALLEL TO THE SLOPE OF THE SUBGRADE OR BASE AGGREGATE PROVIDED A 8" MINIMUM GUTTER THICKNESS IS MAINTAINED.

(5) THE FACE OF CURB IS 6" FROM THE BACK OF CURB.

(6) WHEN REVERSE SLOPE GUTTER IS REQUIRED, THE LOCATION(S) WILL BE SHOWN ELSEWHERE IN THE PLAN.

(7) USE 4% GUTTER CROSS SLOPE UNLESS OTHERWISE NOTED IN THE PLANS.

(8) INCLUDE LONGITUDINAL JOINT AND TIE BARS ALONG LANE EDGE WHEN CONCRETE PANEL WIDTH EXCEEDS THE MAXIMUM WIDTH PER TABLE BELOW. LONGITUDINAL JOINT(S) ARE NOT ALLOWED WITHIN TRAFFIC LANES AND BIKE LANES. LONGITUDINAL JOINT MAY BE SAWED.

PAVEMENT THICKNESS AND MAXIMUM CONCRETE PANEL WIDTH TABLE

PAVEMENT THICKNESS	MAXIMUM PANEL WIDTH
LESS THAN 10"	12'
10" & ABOVE	15'

* BIKE LANE IS NOT SHOWN.

CONCRETE CURB & GUTTER

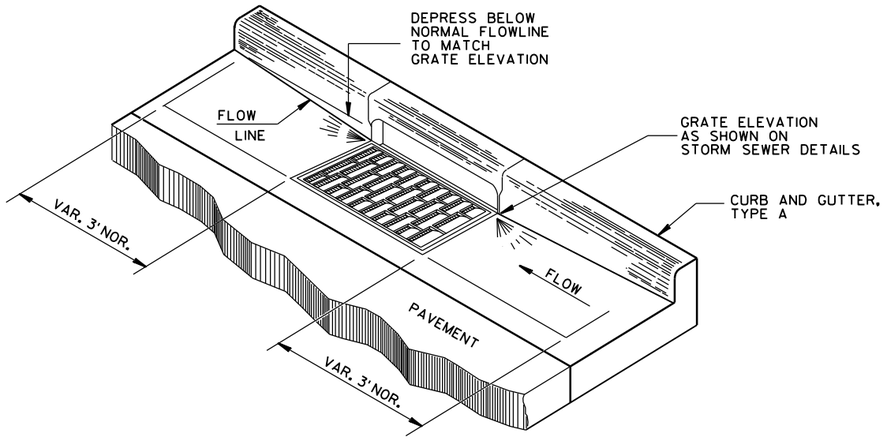
STATE OF WISCONSIN
DEPARTMENT OF TRANSPO...

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S.D.D. 8 D 1-20a



DETAIL OF CURB AND GUTTER AT INLETS

(TYPE H INLET COVER SHOWN)

GENERAL NOTES

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

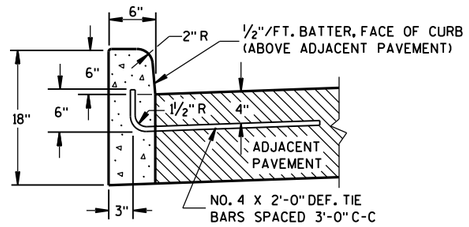
PAVEMENT TIES AND TIE BARS SHALL BE EPOXY COATED IN CONFORMANCE WITH SUBSECTION 505.2.6.2 OF THE STANDARD SPECIFICATIONS.

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

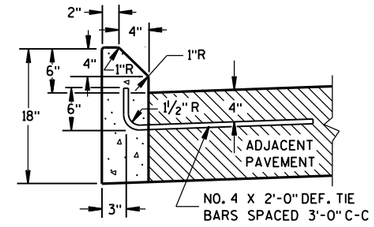
(1) TIE BARS ARE REQUIRED FOR CURB AND GUTTER TYPES A, G, K, R AND TBTT.

(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 8D18 AND SDD 8D19 FOR ADDITIONAL DRIVEWAY ENTRANCE CURB DETAILS.

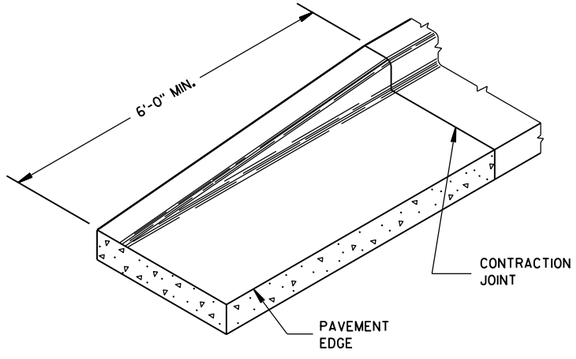


TYPES A(1) & D

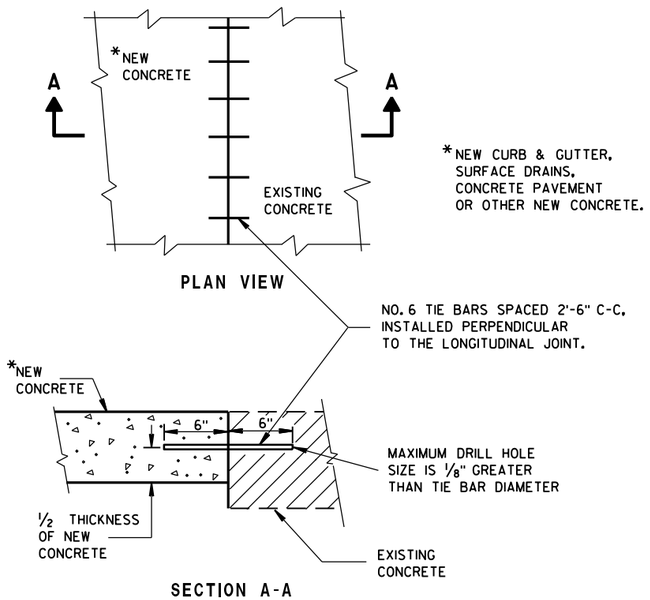


TYPES G(1) & J

CONCRETE CURB



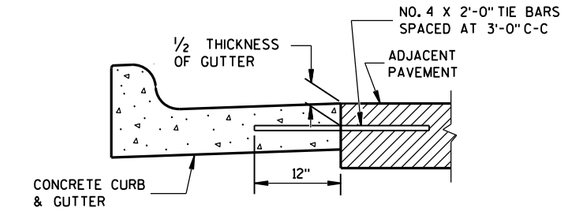
END SECTION CURB & GUTTER



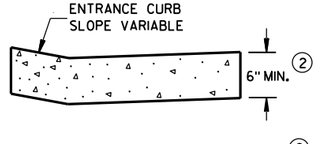
PLAN VIEW

SECTION A-A

TIE BARS DRILLED INTO EXISTING PAVEMENT



TYPICAL TIE BAR LOCATION (1)



DRIVEWAY ENTRANCE CURB (9)

(WHEN DIRECTED BY THE ENGINEER)

CONCRETE CURB, TIES AND CURB AND GUTTER APPLICATIONS

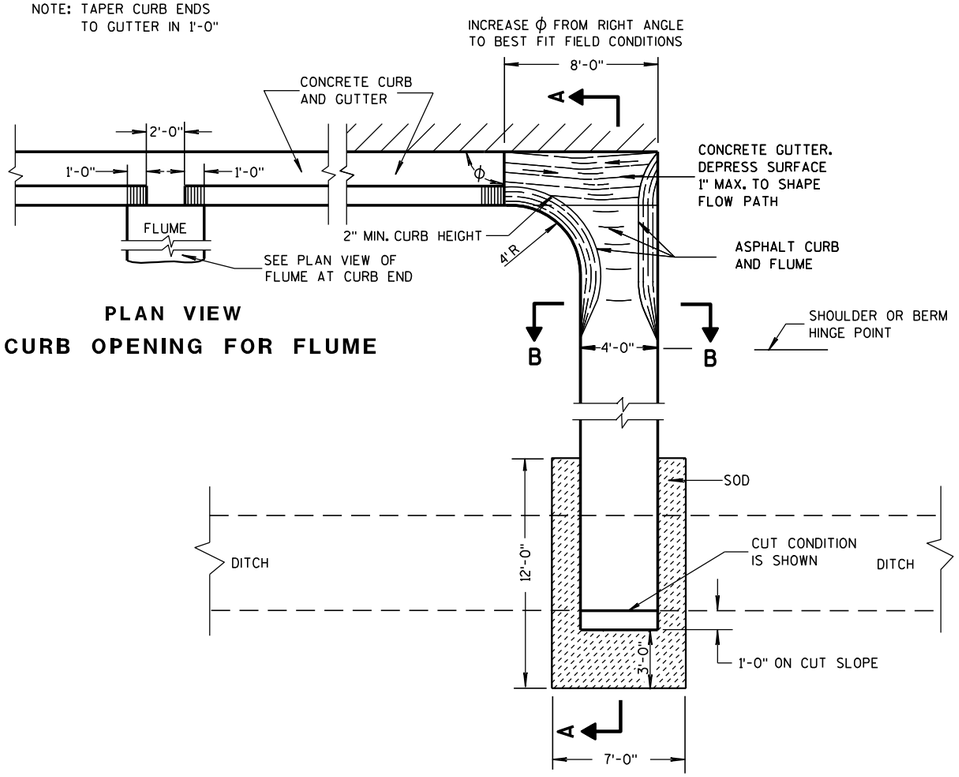
STATE OF WISCONSIN
DEPARTMENT OF TRANSPORTATION

APPROVED
June, 2017 — DATE
/S/ Rodney Taylor — ROADWAY STANDARDS UNIT SUPERVISOR
FHWA
101
ENT

6

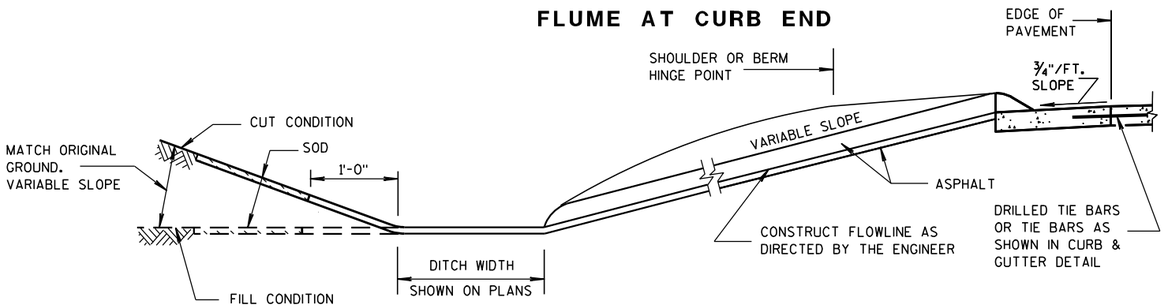
S.D.D. 8 D 1-20b

ASPHALTIC FLUME

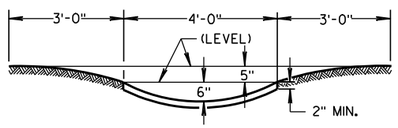


PLAN VIEW
CURB OPENING FOR FLUME

PLAN VIEW
FLUME AT CURB END



SECTION A-A



SECTION B-B

GENERAL NOTES

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

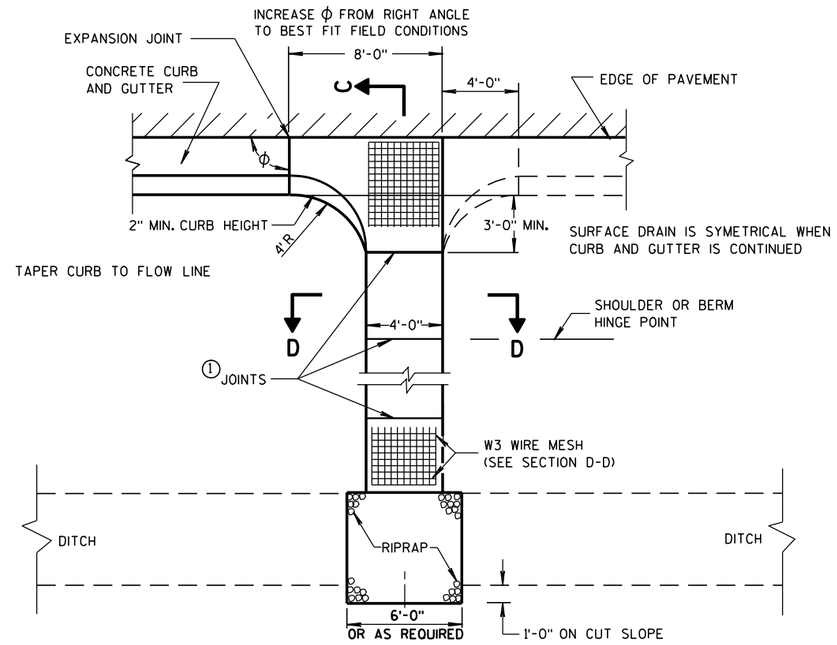
WELDED STEEL WIRE FABRIC SHALL BE IN ACCORDANCE WITH AASHTO SPECIFICATION M55.

① JOINTS SHALL BE $\frac{1}{8}$ TO $\frac{1}{4}$ INCH WIDE BY $1\frac{1}{2}$ INCHES DEEP AND SPACED AT UNIFORM INTERVALS OF APPROXIMATELY 4 FEET.

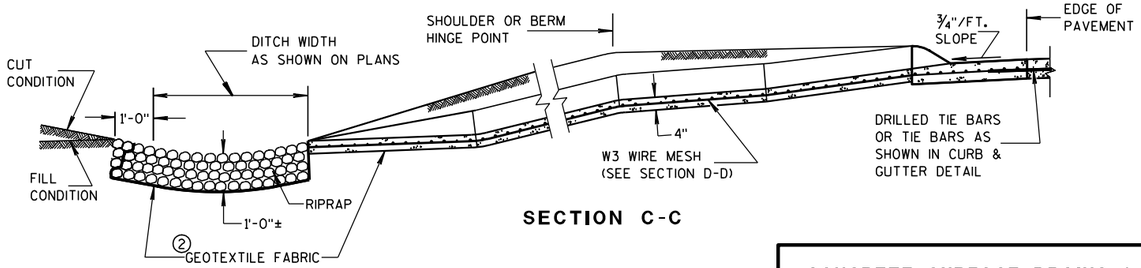
② GEOTEXTILE FABRIC TYPE "R" SHALL UNDERLAY THE FULL LENGTH AND WIDTH OF THE CONCRETE SURFACE DRAIN AND RIPRAP.

③ CONCRETE SURFACE DRAIN WITHOUT CURB AND GUTTER MAY BE USED ON BACKSLOPES WHEN SPECIFIED

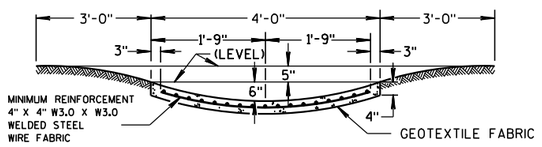
③ CONCRETE SURFACE DRAIN



PLAN VIEW



SECTION C-C



SECTION D-D

CONCRETE SURFACE DRAINS & ASPHALTIC FLUMES

STATE OF WISCONSIN
DEPARTMENT OF TRANSPORTATION

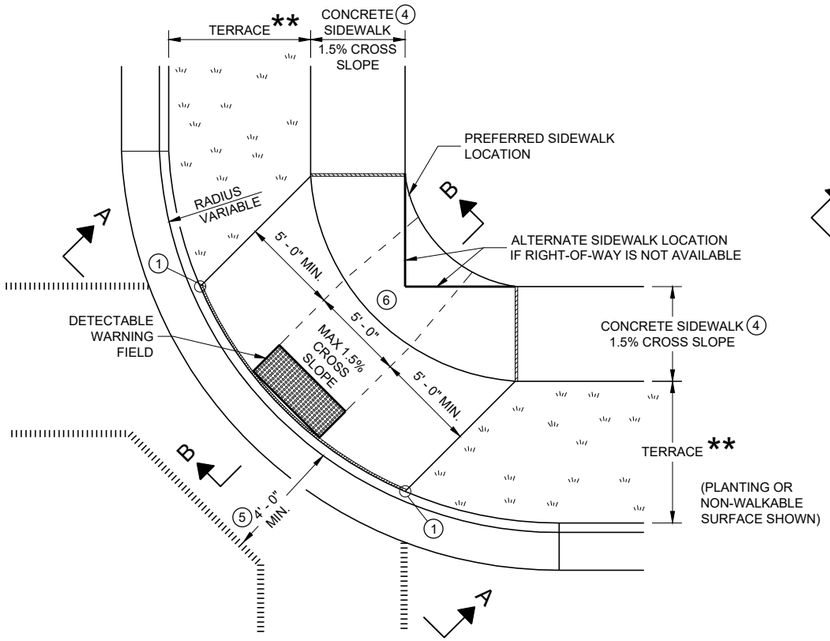
APPROVED
9-4-08 DATE
/S/ Jerry H. Zogg
ROADWAY STANDARDS ENGINEER
MENT
FHWA

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S.D.D. 8 D 4-5

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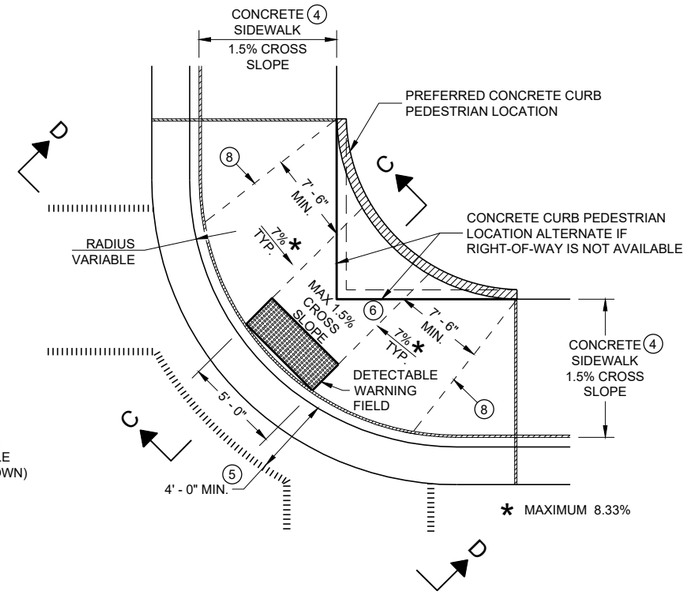
S.D.D. 8 D 4-5



PLAN VIEW

CURB RAMP TYPE 1

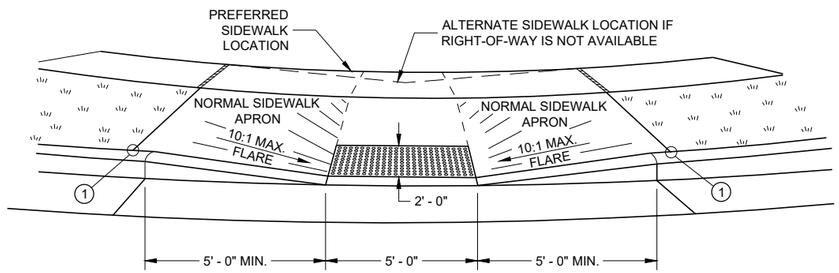
(CENTER OF CORNER RADIUS)



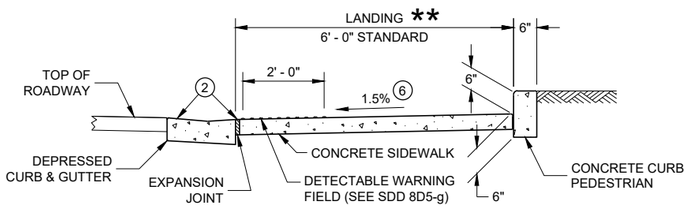
PLAN VIEW

CURB RAMP TYPE 1 - A

(NO TERRACE)

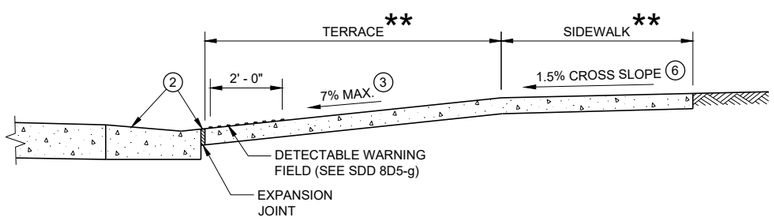


VIEW A - A FOR TYPE 1

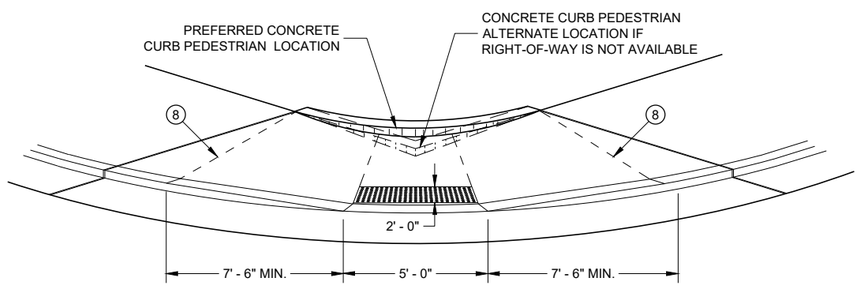


SECTION C - C FOR TYPE 1 - A

** WIDTH SHOWN ELSEWHERE IN THE PLANS



SECTION B - B FOR TYPE 1



VIEW D - D FOR TYPE 1 - A

GENERAL NOTES

AVOID PLACING DRAINAGE STRUCTURES, JUNCTION BOXES OR OTHER OBSTRUCTIONS IN FRONT OF RAMP ACCESS AREAS.

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.

WHEN NECESSARY, THE SIDEWALK ELEVATION MAY BE LOWERED TO MEET THE HIGH POINT ON THE RAMP.

TYPE 1 CURB RAMPS SHALL HAVE A NORMAL SIDEWALK APRON AND CURB ON BOTH SIDES OF RAMP.

DETECTABLE WARNING FILED SHALL BE MEASURED AND PAID BY THE SQUARE FOOT AS "CURB RAMP DETECTABLE WARNING FIELD". THE CONCRETE PEDESTRIAN CURB, IF NEEDED, SHALL BE MEASURED AND PAID BY THE LINEAR FOOT AS "CONCRETE CURB PEDESTRIAN". CONCRETE SIDEWALK IN THE CURB RAMP AREA SHALL BE MEASURED AND PAID BY THE SQUARE FOOT AS CONCRETE SIDEWALK, INCLUDING THE AREA UNDER THE DETECTABLE WARNING FIELD.

SELECT CURB RAMP DETECTABLE WARNING FIELD MATERIALS AND DEVICES FROM THE DEPARTMENT'S APPROVED MATERIALS LIST. THE COLOR OF THE DETECTABLE WARNING FIELD IS SPECIFIED ELSEWHERE AND IS INCIDENTAL TO THE BID ITEM OF "CURB RAMP DETECTABLE WARNING FIELD"

DETECTABLE WARNING FIELDS THAT ARE INSTALLED AS A GROUP OR SIDE BY SIDE, SHALL BE FROM THE SAME MANUFACTURER.

SURFACE TEXTURE OF THE RAMP SHALL BE OBTAINED BY COARSE BROOMING TRANSVERSE TO THE SLOPE OF THE RAMP.

(1) THIS POINT IS AN EXTENSION OF OUTSIDE EDGE OF APPROACHING SIDEWALK WHERE IT MEETS THE BACK OF CONCRETE CURB. POINT LOCATION MAY BE ADJUSTED TO ALIGN WITH BEGINNING OF FULL-HEIGHT CURB IF THIS DISTANCE IS SHORT.

(2) GRADE CHANGE BETWEEN GUTTER FLAG SLOPE AND THE CURB RAMP SLOPE SHALL NOT EXCEED 11%. MAXIMUM GUTTER FLAG SLOPE IS 4%. PROVIDE LONGITUDINAL DRAINAGE AROUND CURB AND AWAY FROM CURB RAMP. NO VERTICAL LIPS OR DISCONTINUITIES GREATER THAN ¼ - INCH ARE ALLOWED. SLOPE OF CURB HEAD OPENING SHALL MATCH THE RAMP SLOPE, MINIMALLY 1.5% AND NOT TO EXCEED 7%. WHEN ADJACENT TO 1.5% LANDING, CONSTRUCT CURB HEAD OPENING AT 1.5% IN THE DIRECTION OF PEDESTRIAN TRAVEL.

(3) MAXIMUM 8.33% CURB RAMP SLOPE IS ALLOWABLE WITH FLATTENED GUTTER FLAG SLOPE AND NOT TO EXCEED 11% GRADE CHANGE.

(4) ±0.5% CONSTRUCTION TOLERANCE IN SIDEWALK CROSS SLOPE. THE SIDEWALK CROSS SLOPE SHALL NOT EXCEED 2% WITHOUT PRIOR APPROVAL FROM THE ENGINEER.

(5) PROVIDE A LEVEL LANDING IN THE STREET AND GUTTER AREA (2% MAXIMUM SLOPE IN ANY DIRECTION). WHEN THE GUTTER SLOPE EXCEEDS 2%, CONSTRUCT THE LEVEL LANDING IN THE STREET AREA.

(6) PROVIDE A LEVEL LANDING (MAXIMUM 2% SLOPE) IN ANY DIRECTION OF PEDESTRIAN TRAVEL. STANDARD LEVEL LANDING SIZE IS 5 FEET BY 5 FEET.

(8) PROVIDE GRADE BREAK PERPENDICULAR TO DIRECTION OF WHEELCHAIR TRAVEL.

LEGEND

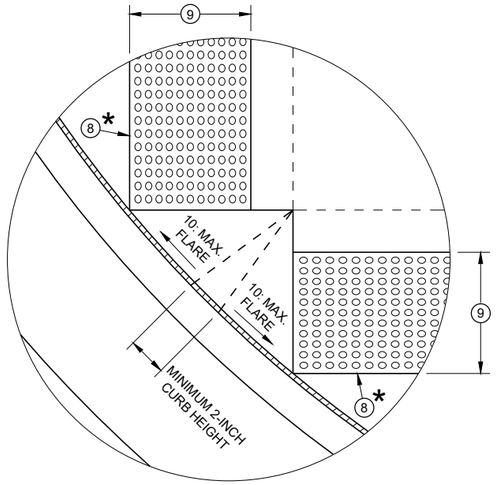
- ½" EXPANSION JOINT SIDEWALK
- CONTRACTION JOINT FIELD LOCATED
- PAVEMENT MARKING CROSSWALK (WHITE)

CURB RAMPS
TYPE 1 AND 1-A

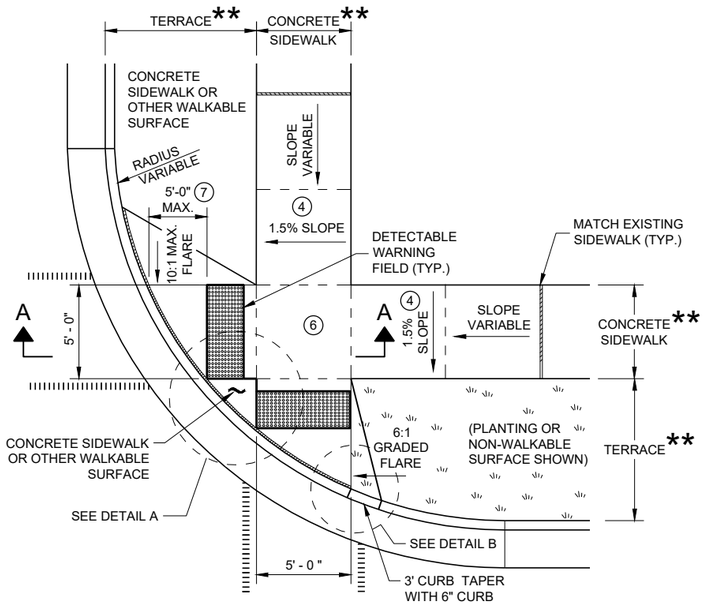
STATE OF WISCONSIN
DEPARTMENT OF TRANSPORTATION

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SDD 08D05 - 20a



DETAIL A



PLAN VIEW
CURB RAMP TYPE 2
(CENTER OF CORNER RADIUS)

GENERAL NOTES

AVOID PLACING DRAINAGE STRUCTURES, JUNCTION BOXES OR OTHER OBSTRUCTIONS IN FRONT OF RAMP ACCESS AREAS.

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.

DETECTABLE WARNING FIELDS THAT ARE INSTALLED AS A GROUP OR SIDE BY SIDE SHALL BE FROM THE SAME MANUFACTURER.

(2) GRADE CHANGE BETWEEN GUTTER FLAG SLOPE AND THE CURB RAMP SLOPE SHALL NOT EXCEED 11%. MAXIMUM GUTTER FLAG SLOPE IS 4%. PROVIDE LONGITUDINAL DRAINAGE AROUND CURB AND AWAY FROM CURB RAMP. NO VERTICAL LIPS OR DISCONTINUITIES GREATER THAN ¼ - INCH ARE ALLOWED. SLOPE OF CURB HEAD OPENING SHALL MATCH THE RAMP SLOPE, MINIMALLY 1.5% AND NOT TO EXCEED 7%. WHEN ADJACENT TO 1.5% LANDING, CONSTRUCT CURB HEAD OPENING AT 1.5% IN THE DIRECTION OF PEDESTRIAN TRAVEL.

(3) AN 8.33% CURB RAMP SLOPE IS ALLOWABLE WITH FLATTENED GUTTER FLAG SLOPE (2.67% OR LESS) AND NOT TO EXCEED 11% GRADE CHANGE.

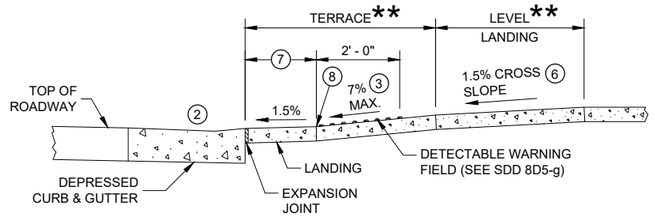
(4) ±0.5% CONSTRUCTION TOLERANCE IN SIDEWALK CROSS SLOPE. THE SIDEWALK CROSS SLOPE SHALL NOT EXCEED 2% WITHOUT PRIOR APPROVAL FROM THE ENGINEER.

(6) PROVIDE A LEVEL LANDING (MAXIMUM 2% SLOPE) IN ANY DIRECTION OF PEDESTRIAN TRAVEL. STANDARD LEVEL LANDING SIZE IS 5 FEET X 5 FEET.

(7) WHEN GRADE BREAK DISTANCE EXCEEDS 5 FEET, USE RADIAL DETECTABLE WARNING FIELD PER SDD 8D5-f.

(8) PROVIDE GRADE BREAK PERPENDICULAR TO DIRECTION OF WHEELCHAIR TRAVEL.

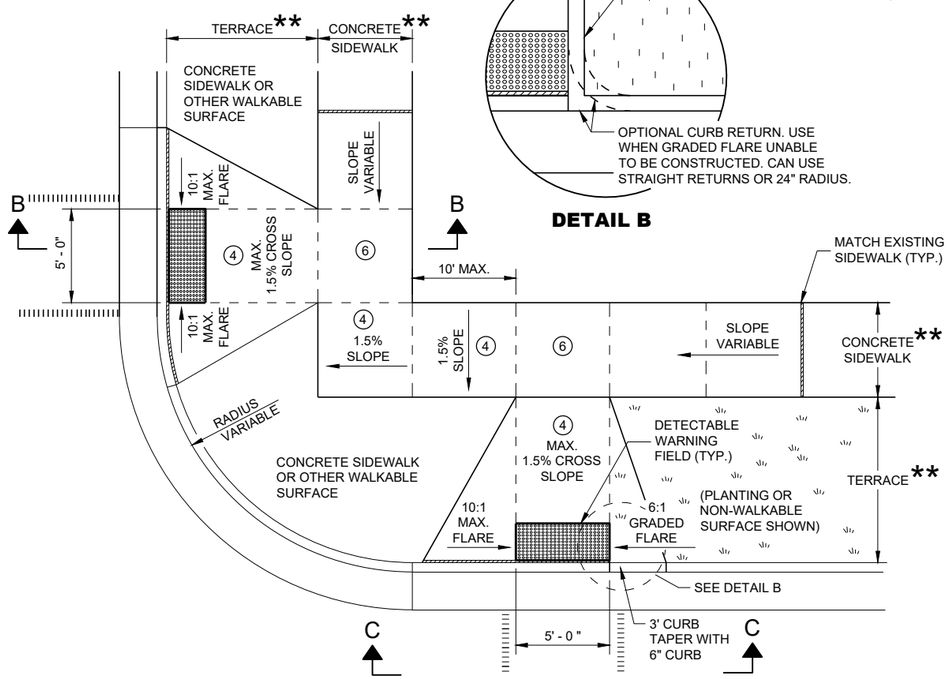
(9) WHEN DISTANCE IS LESS THAN 6' - 0", IT MAY BE DIFFICULT TO ACHIEVE A 7% SLOPE OR FLATTER ALONG THE RAMP. REDUCE CURB HEIGHT IN TRIANGLE AREA TO ACHIEVE 7% SLOPE OR FLATTER ON RAMP. CONSTRUCT 2-INCH MINIMUM CURB HEIGHT BETWEEN 10:1 FLARES.



SECTION A - A FOR TYPE 2

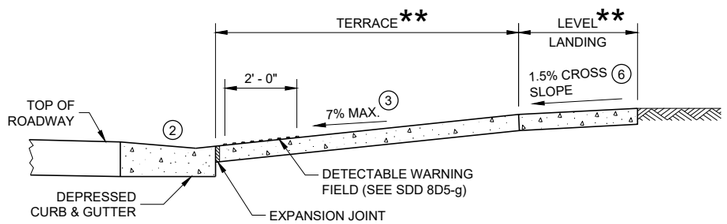
* MAXIMUM 2.0% SLOPE IN ALL DIRECTIONS IN FRONT OF GRADE BREAK

** WIDTH SHOWN ELSEWHERE IN THE PLANS



DETAIL B

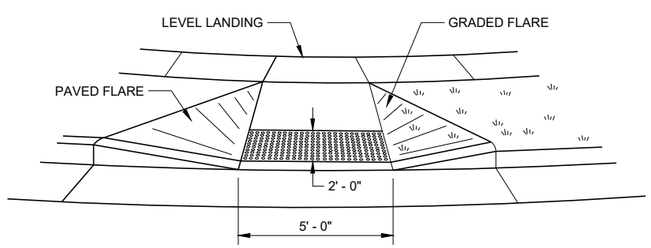
PLAN VIEW
CURB RAMP TYPE 3
(OUTSIDE OF CROSSWALK AREA)



SECTION B - B FOR TYPE 3

LEGEND

- ½" EXPANSION JOINT SIDEWALK
- CONTRACTION JOINT SIDEWALK
- PAVEMENT MARKING CROSSWALK (WHITE)



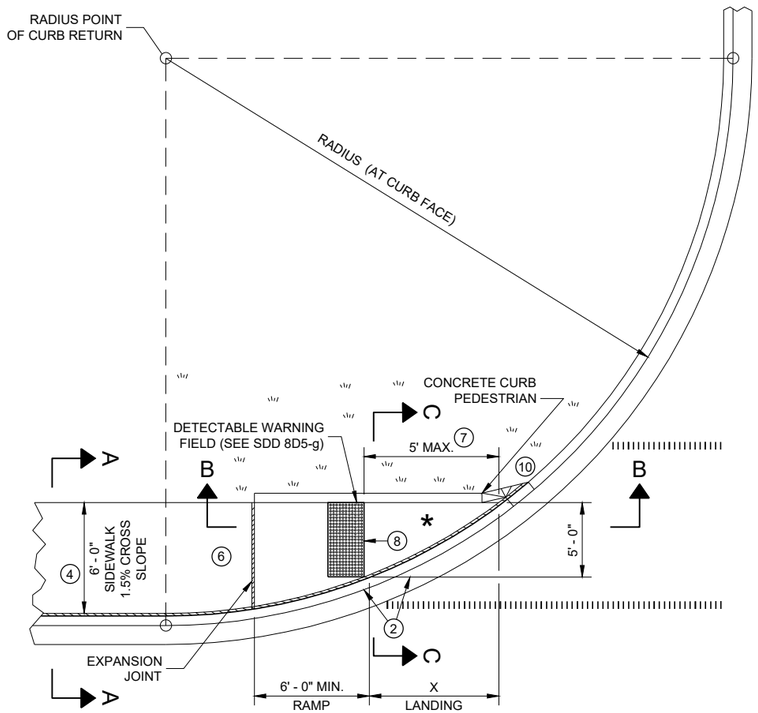
VIEW C - C FOR TYPE 3

CURB RAMPS TYPE 2 AND 3

STATE OF WISCONSIN
DEPARTMENT OF TRANSPORTATION

6

SDD 08D05 - 20b

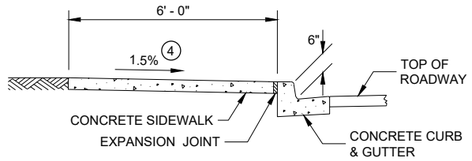


PLAN VIEW

CURB RAMP TYPE 4A

RADIUS (AT CURB FACE)	X
10 FEET	4' - 7"
15 FEET	6' - 5½"

INTERMEDIATE RADII CAN BE INTERPOLATED



SECTION A - A FOR TYPE 4A

GENERAL NOTES

AVOID PLACING DRAINAGE STRUCTURES, JUNCTION BOXES OR OTHER OBSTRUCTIONS IN FRONT OF RAMP ACCESS AREAS.

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.

DETECTABLE WARNING FIELDS THAT ARE INSTALLED AS A GROUP OR SIDE BY SIDE, SHALL BE FROM THE SAME MANUFACTURER.

(2) GRADE CHANGE BETWEEN GUTTER FLAG SLOPE AND THE CURB RAMP SLOPE SHALL NOT EXCEED 11%. MAXIMUM GUTTER FLAG SLOPE IS 4%. PROVIDE LONGITUDINAL DRAINAGE AROUND CURB AND AWAY FROM CURB RAMP. NO VERTICAL LIPS OR DISCONTINUITIES GREATER THAN ¼ - INCH ARE ALLOWED. SLOPE OF CURB HEAD OPENING SHALL MATCH THE RAMP SLOPE, MINIMALLY 1.5% AND NOT TO EXCEED 7%. WHEN ADJACENT TO 1.5% LANDING, CONSTRUCT CURB HEAD OPENING AT 1.5% IN THE DIRECTION OF PEDESTRIAN TRAVEL.

(3) AN 8.33% CURB RAMP SLOPE IS ALLOWABLE WITH FLATTENED GUTTER FLAG SLOPE AND NOT TO EXCEED 11% GRADE CHANGE.

(4) ±0.5% CONSTRUCTION TOLERANCE IN SIDEWALK CROSS SLOPE. THE SIDEWALK CROSS SLOPE SHALL NOT EXCEED 2% WITHOUT PRIOR APPROVAL FROM THE ENGINEER.

(6) PROVIDE A LEVEL LANDING (MAXIMUM 2% SLOPE) IN ANY DIRECTION OF PEDESTRIAN TRAVEL. STANDARD LEVEL LANDING SIZE IS 5 FEET BY 5 FEET.

(7) WHEN THIS GRADE BREAK DISTANCE EXCEEDS 5 FEET, USE RADIAL DETECTABLE WARNING FIELD PER SDD 8D5-f.

(8) PROVIDE GRADE BREAK PERPENDICULAR TO DIRECTION OF WHEELCHAIR TRAVEL.

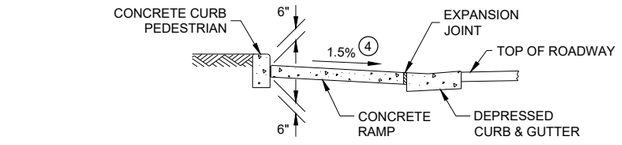
(10) INSTALL TRANSITION NOSE (INCIDENTAL TO OTHER PAY ITEMS). DO NOT MARK TRANSITION NOSE.

LEGEND

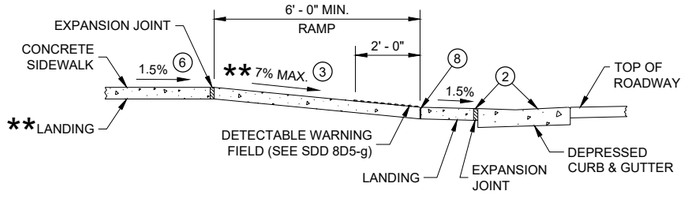
½" EXPANSION JOINT SIDEWALK

CONTRACTION JOINT SIDEWALK

PAVEMENT MARKING CROSSWALK (WHITE)



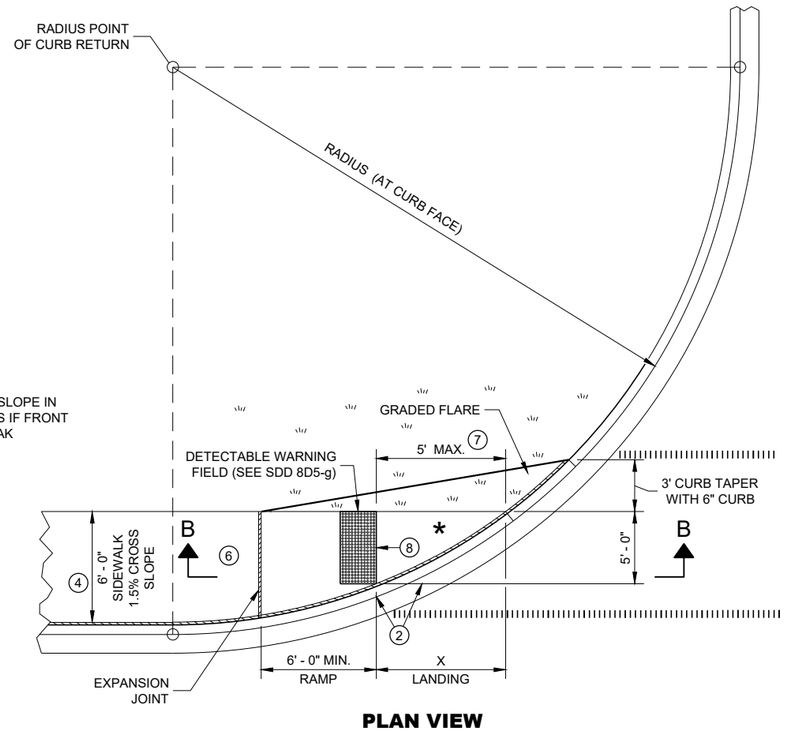
SECTION C - C FOR TYPE 4A



SECTION B - B FOR TYPE 4A AND TYPE 4A1

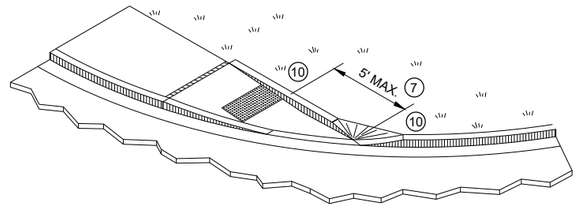
** IF RAMP SLOPE IS LESS THAN 5.0%, THEN NO ADJACENT UPHILL LANDING IS REQUIRED

* MAXIMUM 2.0% SLOPE IN ALL DIRECTIONS IF FRONT OF GRADE BREAK

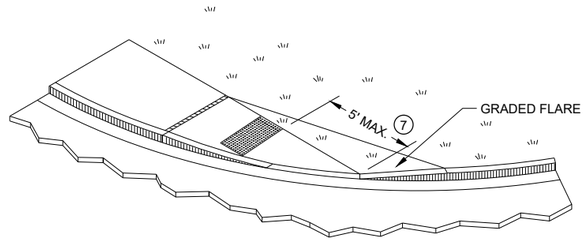


PLAN VIEW

CURB RAMP TYPE 4A1



ISOMETRIC VIEW FOR TYPE 4A



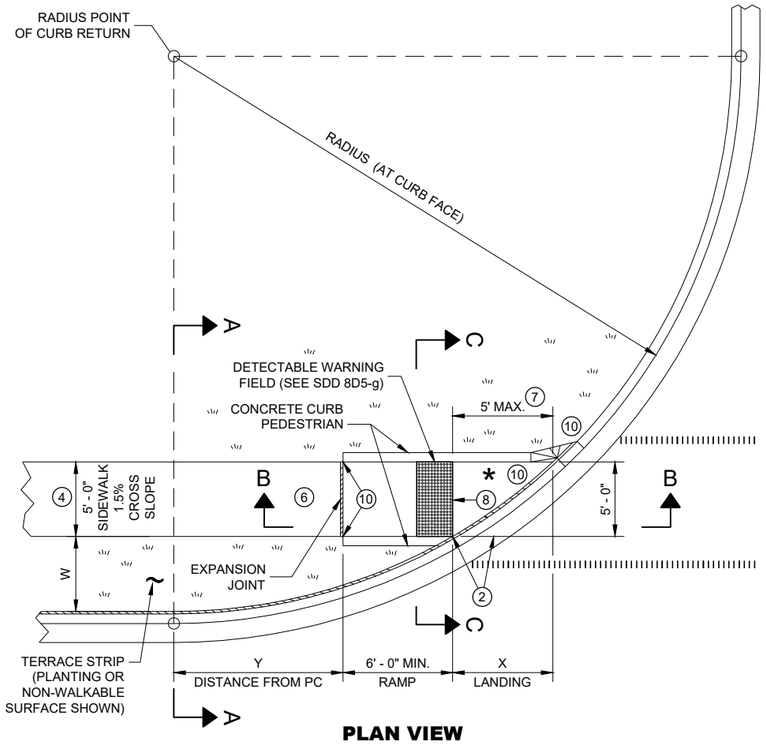
ISOMETRIC VIEW FOR TYPE 4A1

CURB RAMPS
TYPE 4A AND 4A1

STATE OF WISCONSIN
DEPARTMENT OF TRANSPORTATION

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SDD 08D05 - 20c



PLAN VIEW

CURB RAMP TYPE 4B

RADIUS (AT CURB FACE)	W = 3' - 0"		W = 4' - 0"		W = 5' - 0"		W = 6' - 0"		W = 7' - 0"		W = 8' - 0"		W = 9' - 0"		W = 10' - 0"	
	X	Y	X	Y	X	Y	X	Y	X	Y	X	Y	X	Y	X	Y
10 FEET	2' - 10 ¼"	0' - 5"	2' - 1"	1' - 4 ½"	1' - 5"	2' - 1"	0' - 10"	2' - 7 ½"	0' - 3 ¼"	3' - 0 ¼"						
15 FEET	4' - 6 ¾"	2' - 1 ¾"	3' - 9"	3' - 5 ¾"	3' - 1 ¼"	4' - 6"	2' - 6 ¾"	5' - 4 ½"	2' - 1"	6' - 1"	1' - 8"	6' - 8 ½"	1' - 3 ¼"	7' - 2 ½"	0' - 10 ¾"	7' - 7 ¼"
20 FEET	5' - 9 ¾"	3' - 6 ½"	4' - 11 ½"	5' - 1 ¾"	4' - 3 ¼"	6' - 5 ½"	3' - 8 ¾"	7' - 7"	3' - 3"	8' - 6 ½"	2' - 10"	9' - 4 ½"	2' - 5 ½"	10' - 1 ¼"	2' - 1 ¼"	10' - 9"
30 FEET			6' - 9 ¼"	7' - 11 ¼"	6' - 0 ¼"	9' - 8"	5' - 5"	11' - 1 ¾"	4' - 10 ¾"	12' - 5 ¾"	4' - 5 ½"	13' - 7 ¾"	4' - 0 ¾"	14' - 8 ½"	3' - 8 ½"	15' - 8 ¼"
40 FEET									6' - 1 ¾"	15' - 8 ½"	5' - 8"	17' - 2"	5' - 3"	18' - 5 ¾"	4' - 10 ¾"	19' - 8 ¼"
50 FEET															5' - 10 ¼"	23' - 2"

INTERMEDIATE RADII CAN BE INTERPOLATED
DIMENSION "Y" IS CALCULATED BASED ON 6'-0" RAMP LENGTH
DIMENSION "X" IS CALCULATED BASED ON 5'-0" SIDEWALK WIDTH

LEGEND

- ½" EXPANSION JOINT SIDEWALK
- CONTRACTION JOINT SIDEWALK
- PAVEMENT MARKING CROSSWALK (WHITE)

GENERAL NOTES

AVOID PLACING DRAINAGE STRUCTURES, JUNCTION BOXES OR OTHER OBSTRUCTIONS IN FRONT OF RAMP ACCESS AREAS.

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.

DETECTABLE WARNING FIELDS THAT ARE INSTALLED AS A GROUP OR SIDE BY SIDE, SHALL BE FROM THE SAME MANUFACTURER.

(2) GRADE CHANGE BETWEEN GUTTER FLAG SLOPE AND THE CURB RAMP SLOPE SHALL NOT EXCEED 11%. MAXIMUM GUTTER FLAG SLOPE IS 4%. PROVIDE LONGITUDINAL DRAINAGE AROUND CURB AND AWAY FROM CURB RAMP. NO VERTICAL LIPS OR DISCONTINUITIES GREATER THAN ¼ - INCH ARE ALLOWED. SLOPE OF CURB HEAD OPENING SHALL MATCH THE RAMP SLOPE, MINIMALLY 1.5% AND NOT TO EXCEED 7%. WHEN ADJACENT TO 1.5% LANDING, CONSTRUCT CURB HEAD OPENING AT 1.5% IN THE DIRECTION OF PEDESTRIAN TRAVEL.

(3) AN 8.33% CURB RAMP SLOPE IS ALLOWABLE WITH FLATTENED GUTTER FLAG SLOPE AND NOT TO EXCEED 11% GRADE CHANGE.

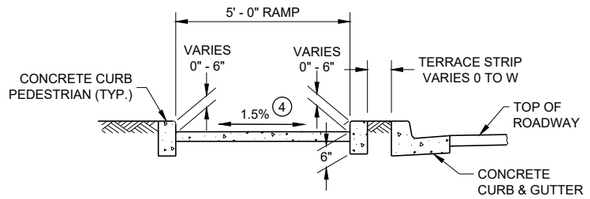
(4) ±0.5% CONSTRUCTION TOLERANCE IN SIDEWALK CROSS SLOPE. THE SIDEWALK CROSS SLOPE SHALL NOT EXCEED 2% WITHOUT PRIOR APPROVAL FROM THE ENGINEER.

(6) PROVIDE A LEVEL LANDING (MAXIMUM 2% SLOPE) IN ANY DIRECTION OF PEDESTRIAN TRAVEL. STANDARD LEVEL LANDING SIZE IS 5 FEET BY 5 FEET.

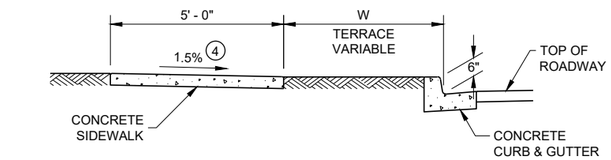
(7) WHEN THIS GRADE BREAK DISTANCE EXCEEDS 5 FEET, USE RADIAL DETECTABLE WARNING FIELD PER SDD 8D5-f.

(8) PROVIDE GRADE BREAK PERPENDICULAR TO DIRECTION OF WHEELCHAIR TRAVEL.

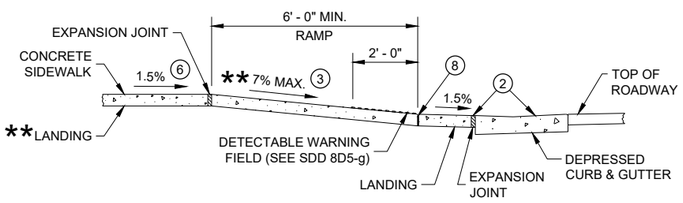
(10) INSTALL TRANSITION NOSE (INCIDENTAL TO OTHER PAY ITEMS). DO NOT MARK TRANSITION NOSE.



SECTION C - C FOR TYPE 4B



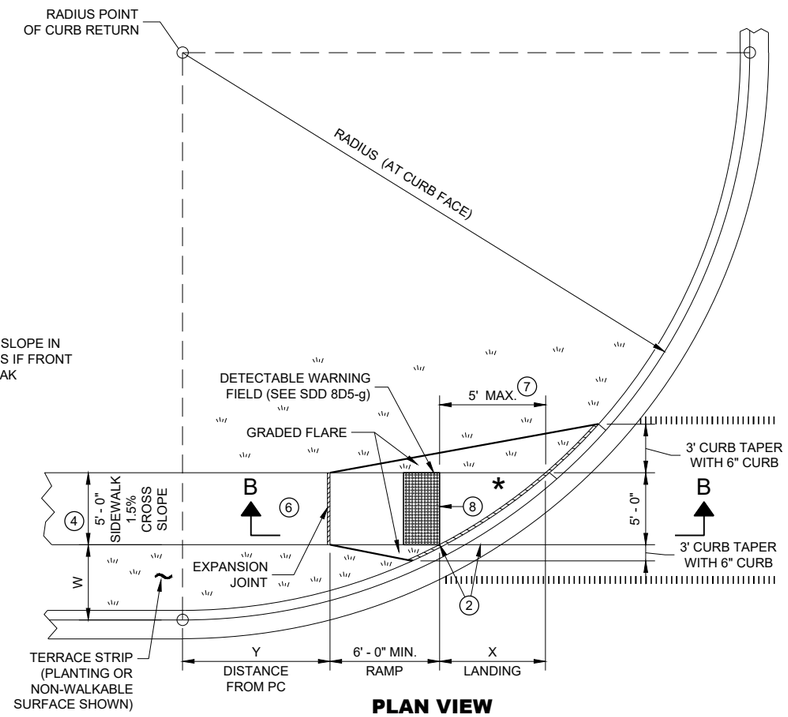
SECTION A - A FOR TYPE 4B



SECTION B - B FOR TYPE 4B AND TYPE 4B1

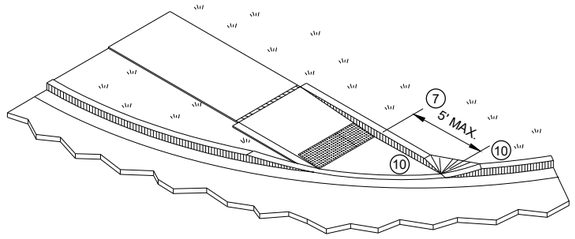
** IF RAMP SLOPE IS LESS THAN 5.0%, THEN NO ADJACENT UPHILL LANDING IS REQUIRED

* MAXIMUM 2.0% SLOPE IN ALL DIRECTIONS IF FRONT OF GRADE BREAK

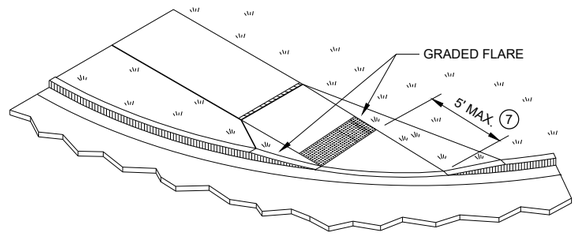


PLAN VIEW

CURB RAMP TYPE 4B1



ISOMETRIC VIEW FOR TYPE 4B



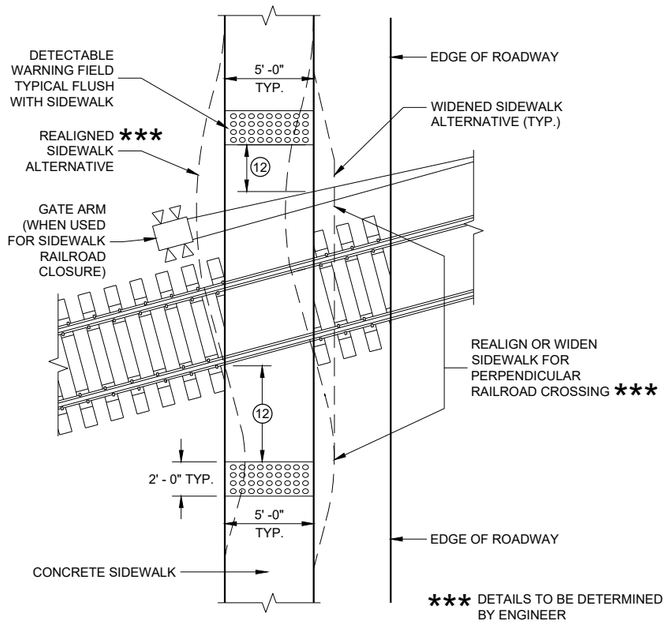
ISOMETRIC VIEW FOR TYPE 4B1

CURB RAMPS TYPE 4B AND 4B1

STATE OF WISCONSIN
DEPARTMENT OF TRANSPORTATION

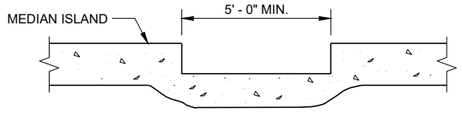
6

SDD 08D05 - 20d

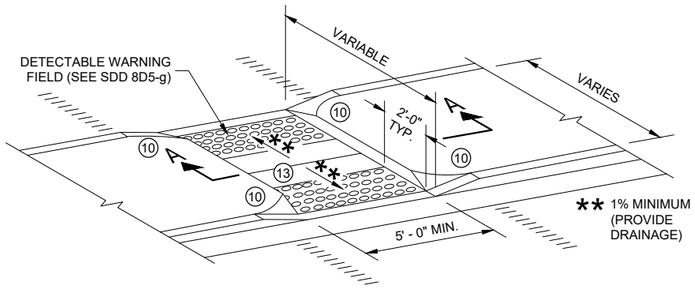


CURB RAMP TYPE 8

DETECTABLE WARNINGS AT RAILROAD CROSSING



SECTION A - A FOR TYPE 5



CURB RAMP TYPE 5

MEDIAN ISLAND NON-ELEVATED PEDESTRIAN CROSSING

GENERAL NOTES

AVOID PLACING DRAINAGE STRUCTURES, JUNCTION BOXES OR OTHER OBSTRUCTIONS IN FRONT OF RAMP ACCESS AREAS.

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.

SIDEWALK CROSS SLOPE SHALL NOT EXCEED 2%.

DETECTABLE WARNING FIELDS THAT ARE INSTALLED AS A GROUP OR SIDE BY SIDE, SHALL BE FROM THE SAME MANUFACTURER.

(2) GRADE CHANGE BETWEEN GUTTER FLAG SLOPE AND THE CURB RAMP SLOPE SHALL NOT EXCEED 11%. MAXIMUM GUTTER FLAG SLOPE IS 4%. PROVIDE LONGITUDINAL DRAINAGE AROUND CURB AND AWAY FROM CURB RAMP. NO VERTICAL LIPS OR DISCONTINUITIES GREATER THAN ¼ - INCH ARE ALLOWED. SLOPE OF CURB HEAD OPENING SHALL MATCH THE RAMP SLOPE, MINIMALLY 1.5% AND NOT TO EXCEED 7%. WHEN ADJACENT TO 1.5% LANDING, CONSTRUCT CURB HEAD OPENING AT 1.5% IN THE DIRECTION OF PEDESTRIAN TRAVEL.

(3) AN 8.33% CURB RAMP SLOPE IS ALLOWABLE WITH FLATTENED GUTTER FLAG SLOPE AND NOT TO EXCEED 11% GRADE CHANGE.

(4) ±0.5% CONSTRUCTION TOLERANCE IN SIDEWALK CROSS SLOPE. THE SIDEWALK CROSS SLOPE SHALL NOT EXCEED 2% WITHOUT PRIOR APPROVAL FROM THE ENGINEER.

(6) PROVIDE A LEVEL LANDING (MAXIMUM 2% SLOPE) IN ANY DIRECTION OF PEDESTRIAN TRAVEL. STANDARD LEVEL LANDING SIZE IS 5 FEET BY 5 FEET.

(10) INSTALL TRANSITION NOSE (INCIDENTAL TO OTHER PAY ITEMS). DO NOT MARK TRANSITION NOSE.

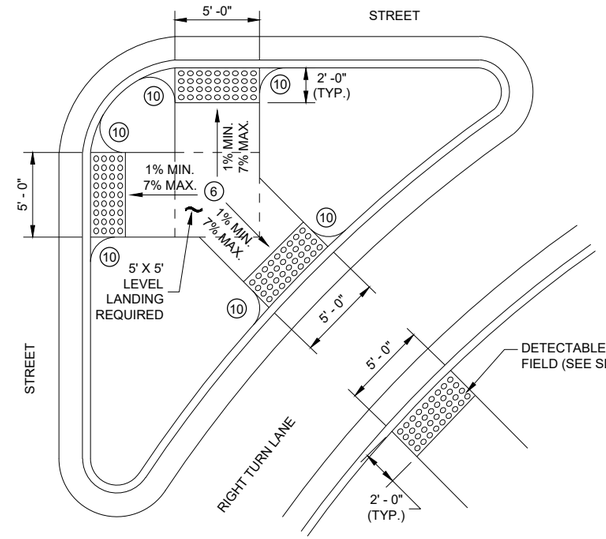
(11) SLOPE SIDEWALK TOWARD LANDING AS SHOWN WHERE THERE IS NO TERRACE OR WHERE THE TERRACE WIDTH IS LESS THAN 6 FEET WIDE.

(12) THE EDGE OF THE DETECTABLE WARNING FIELD NEAREST TO A RAILROAD CROSSING SHALL BE 1.5 FEET ±0.1' FROM THE FACE OF THE GATE ARM IF THE GATE ARM EXTENDS ACROSS THE SIDEWALK. WHERE THERE IS NO PEDESTRIAN GATE, THE EDGE OF THE DETECTABLE WARNING FIELD NEAREST TO THE RAILROAD CROSSING SHALL BE 15 FEET FROM THE NEAREST RAIL.

(13) DO NOT INSTALL DETECTABLE WARNING FIELDS AT THE EDGES OF STEET-LEVEL PEDESTRIAN REFUGE ISLANDS IF A MINIMUM 2 FOOT CONCRETE SURFACE WITHOUT DETECTABLE WARNINGS (MEASURED IN THE DIRECTION OF PEDESTRIAN TRAVEL) CANNOT BE ACHIEVED.

LEGEND

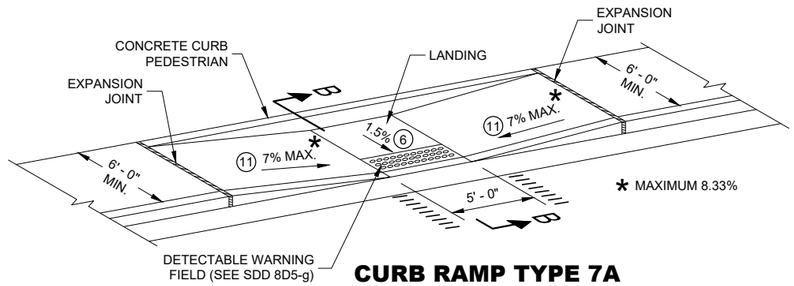
- ½" EXPANSION JOINT SIDEWALK
- CONTRACTION JOINT FIELD LOCATED
- PAVEMENT MARKING CROSSWALK (WHITE)



CURB RAMP TYPE 6

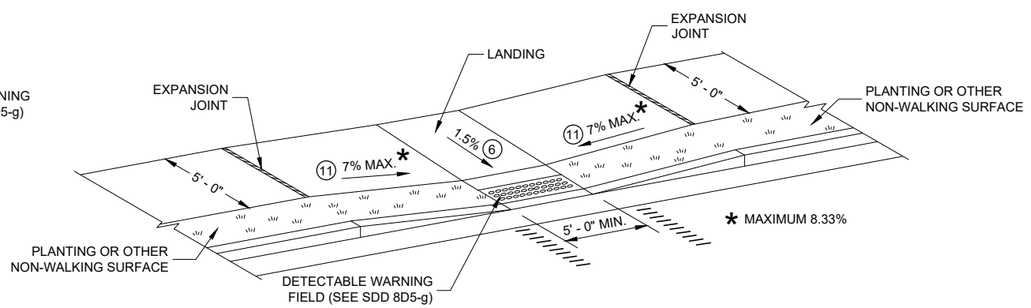
DETECTABLE WARNING AT ISLANDS

REFER TO GENERAL NOTES (2) AND (3) FOR ALL ISLAND CURB RAMPS



CURB RAMP TYPE 7A

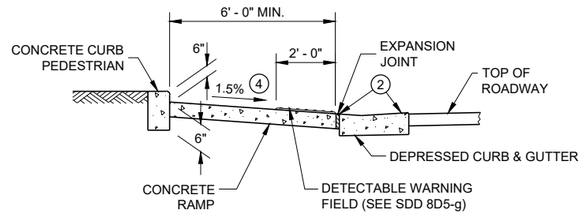
MID BLOCK CROSSING



CURB RAMP TYPE 7B

MID BLOCK CROSSING

NOTE: THESE PARALLEL AND PARALLEL/PERPENDICULAR CURB RAMPS MAY BE USED AT INTERSECTIONS AND MID BLOCK LOCATIONS.



SECTION B - B FOR TYPE 7A

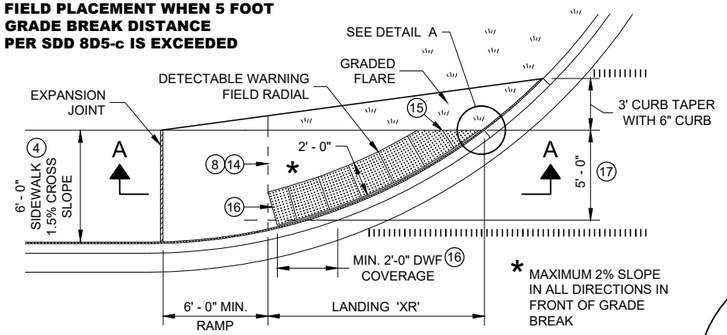
CURB RAMPS TYPE 5, 6, 7A, 7B & 8

STATE OF WISCONSIN
DEPARTMENT OF TRANSPORTATION

SDD 08D05 - 20e

SDD 08D05 - 20e

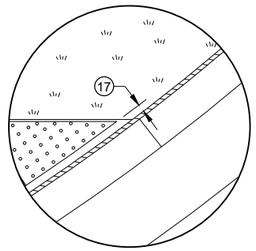
RADIAL DETECTABLE WARNING FIELD PLACEMENT WHEN 5 FOOT GRADE BREAK DISTANCE PER SDD 8D5-c IS EXCEEDED



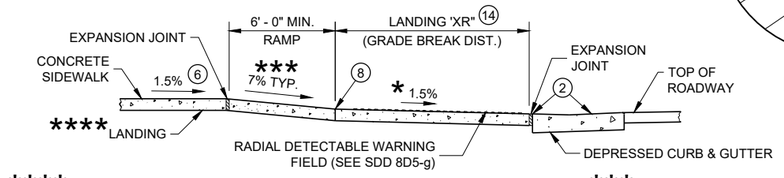
PLAN VIEW

CURB RAMP TYPE 4A1

(GRADE BREAK DISTANCE GREATER THAN 5 FEET)



DETAIL A

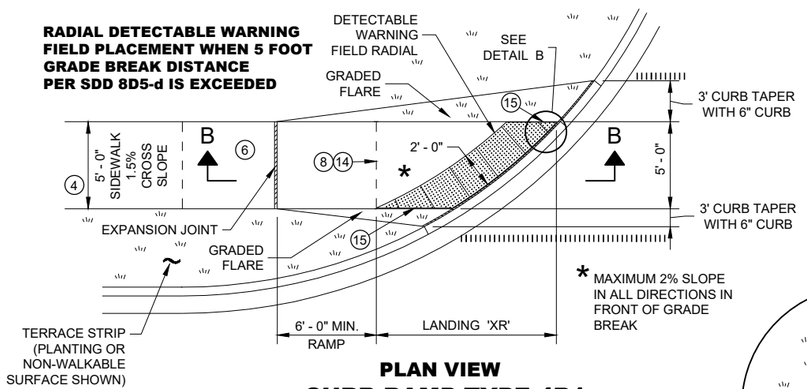


**** IF RAMP SLOPE IS LESS THAN 5.0%, THEN NO ADJACENT UPHILL LANDING IS REQUIRED

*** MAXIMUM 8.33%

SECTION A - A FOR TYPE 4A1

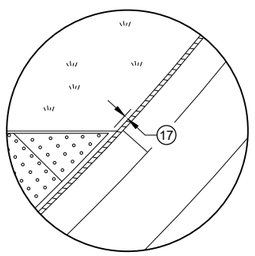
RADIAL DETECTABLE WARNING FIELD PLACEMENT WHEN 5 FOOT GRADE BREAK DISTANCE PER SDD 8D5-d IS EXCEEDED



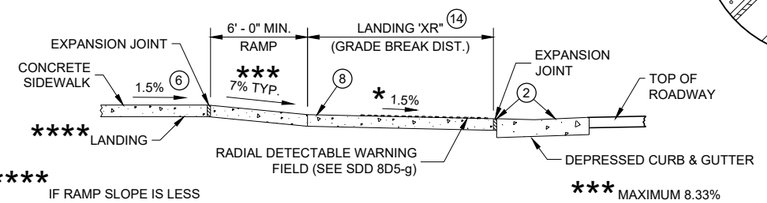
PLAN VIEW

CURB RAMP TYPE 4B1

(GRADE BREAK DISTANCE GREATER THAN 5 FEET)



DETAIL B



**** IF RAMP SLOPE IS LESS THAN 5.0%, THEN NO ADJACENT UPHILL LANDING IS REQUIRED

*** MAXIMUM 8.33%

SECTION B - B FOR TYPE 4B1

LEGEND

- ½" EXPANSION JOINT SIDEWALK
- CONTRACTION JOINT SIDEWALK
- PAVEMENT MARKING CROSSWALK (WHITE)

GENERAL NOTES

AVOID PLACING DRAINAGE STRUCTURES, JUNCTION BOXES OR OTHER OBSTRUCTIONS IN FRONT OF RAMP ACCESS AREAS.

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.

DETECTABLE WARNING FIELDS THAT ARE INSTALLED AS A GROUP OR SIDE BY SIDE, SHALL BE FROM THE SAME MANUFACTURER.

APPLY RADIAL DETECTABLE WARNING PLACEMENT SIMILARLY FOR TYPE 4A AND 4A1 CURB RAMPS AND SIMILARLY FOR TYPE 4B AND 4B1 CURB RAMPS. TYPE 4A AND 4B CURB RAMPS ARE NOT SHOWN.

REFER TO SDD 8D5-g FOR ADDITIONAL RADIAL PLATE REQUIREMENTS.

FIELD CUTS AT INTERMEDIATE JOINTS WITHIN THE RADIAL DETECTABLE WARNING FILED ARE PROHIBITED.

DETERMINE FINAL RADIAL WARNING FIELD CONFIGURATION AD ITS INDIVIDUAL PLATE LOCATIONS. PERFORM PRE-LAYOUT PRIOR TO PLACEMENT IN PLASTIC CONCRETE. FOLLOW MANUFACTURER'S PRODUCT LIST AND INSTALLATION RECOMMENDATIONS.

(2) GRADE CHANGE BETWEEN GUTTER FLAG SLOPE AND THE CURB RAMP SLOPE SHALL NOT EXCEED 11%. MAXIMUM GUTTER FLAG SLOPE IS 4%. PROVIDE LONGITUDINAL DRAINAGE AROUND CURB AND AWAY FROM CURB RAMP. NO VERTICAL LIPS OR DISCONTINUITIES GREATER THAN ¼ - INCH ARE ALLOWED. SLOPE OF CURB HEAD OPENING SHALL MATCH THE RAMP SLOPE, MINIMALLY 1.5% AND NOT TO EXCEED 7%. WHEN ADJACENT TO 1.5% LANDING, CONSTRUCT CURB HEAD OPENING AT 1.5% IN THE DIRECTION OF PEDESTRIAN TRAVEL.

(3) AN 8.33% CURB RAMP SLOPE IS ALLOWABLE WITH FLATTENED GUTTER FLAG SLOPE AND NOT TO EXCEED 11% GRADE CHANGE.

(4) ±0.5% CONSTRUCTION TOLERANCE IN SIDEWALK CROSS SLOPE. THE SIDEWALK CROSS SLOPE SHALL NOT EXCEED 2% WITHOUT PRIOR APPROVAL FROM THE ENGINEER.

(6) PROVIDE A LEVEL LANDING (MAXIMUM 2% SLOPE) IN ANY DIRECTION OF PEDESTRIAN TRAVEL. STANDARD LANDING SIZE IS 5 FEET BY 5 FEET.

(8) PROVIDE GRADE BREAK PERPENDICULAR TO DIRECTION OF WHEELCHAIR TRAVEL.

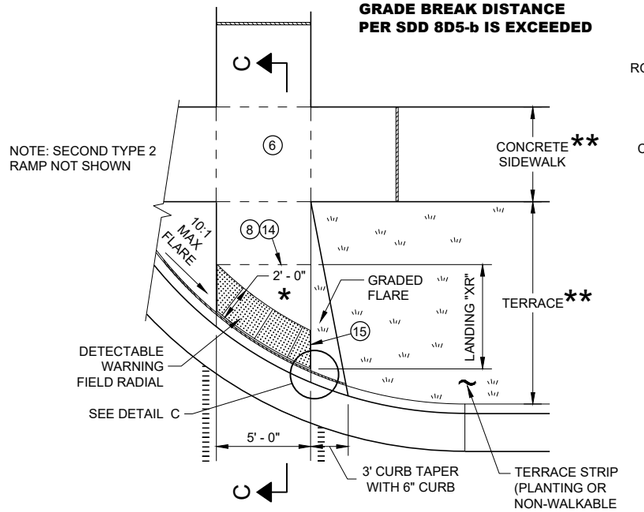
(14) CONSULT ENGINEER IF GRADE BREAK LOCATION (END OF LANDING DIMENSION "XR") REQUIRES FIELD ADJUSTMENT WHEN ESTABLISHING FINAL RADIAL DETECTABLE WARNING FIELD LOCATION.

(15) FIELD SAW CUTS ALONG RADIAL DETECTABLE WARNING PLATES WILL BE NECESSARY TO MATCH EACH CURB RAMP EDGE. AVOID CUTTING THROUGH DOMES WHENEVER POSSIBLE. MAKE FIELD CUTS TRUE TO LINE AND WITHIN ⅛" DEVIATION. SMOOTH EDGES OF FIELD CUT PLATES.

(16) USE 1' X 2" RECTANGULAR END PLATE AT END OF TYPE 4A1 RAMP AND PROVIDE MINIMUM 2' - 0" DETECTABLE WARNING FIELD COVERAGE (IN DIRECTION OF PEDESTRIAN TRAVEL) ALONG THE ENTIRE CURB RAMP WIDTH.

(17) A MAXIMUM 3 INCH CONCRETE BORDER WITH IS ALLOWABLE IN FROM OF RADIAL DETECTABLE WARNING FIELD FOR CONSTRUCTABILITY PURPOSES. CONCRETE BORDER WIDTH MAY VARY UP TO 1 INCH.

RADIAL DETECTABLE WARNING FIELD PLACEMENT WHEN 5 FOOT GRADE BREAK DISTANCE PER SDD 8D5-b IS EXCEEDED

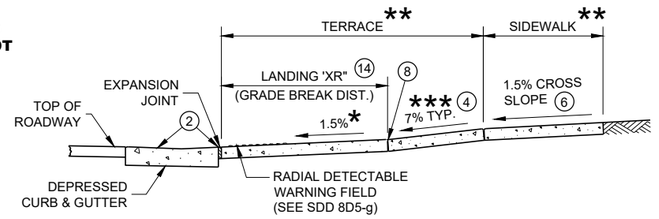


PLAN VIEW

CURB RAMP TYPE 2

(GRADE BREAK DISTANCE GREATER THAN 5 FEET)

(ON LINE WITH SIDEWALK)

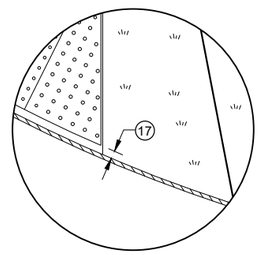


SECTION C - C FOR TYPE 2

* MAXIMUM 2% SLOPE IN ALL DIRECTIONS IN FRONT OF GRADE BREAK

** WIDTH SHOWN ELSEWHERE IN THE PLANS

*** MAXIMUM 8.33%



DETAIL C

CURB RAMPS RADIAL DETECTABLE WARNING FIELD APPLICATIONS

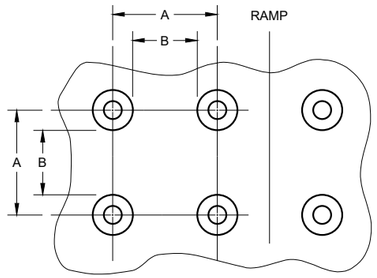
STATE OF WISCONSIN
DEPARTMENT OF TRANSPORTATION

SDD 08D05 - 20f

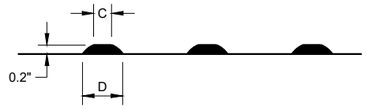
SDD 08D05 - 20f

	MIN.	MAX.
A	1.6"	2.4"
B	0.65"	1.5"
C	*	*
D	0.9"	1.4"

* THE C DIMENSION IS 50% TO 65% OF THE D DIMENSION.

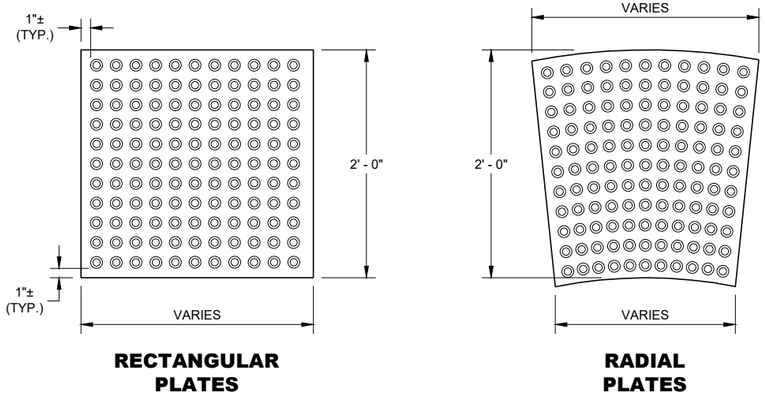


PLAN VIEW



ELEVATION VIEW

TRUNCATED DOMES
DETECTABLE WARNING PATTERN DETAIL



RECTANGULAR PLATES

RADIAL PLATES

PLAN VIEW
DETECTABLE WARNING FIELDS (TYPICAL)

GENERAL NOTES

DETECTABLE WARNING FIELDS THAT ARE INSTALLED AT A CURB RAMP SHALL BE FROM THE SAME MANUFACTURER.

PLACE ALL DETECTABLE WARNING FIELD SYSTEMS IN ACCORDANCE TO THE MANUFACTURER'S RECOMMENDATION.

FIELD CUTS AT INTERMEDIATE JOINTS WITHIN THE RADIAL DETECTABLE WARNING FILED ARE PROHIBITED.

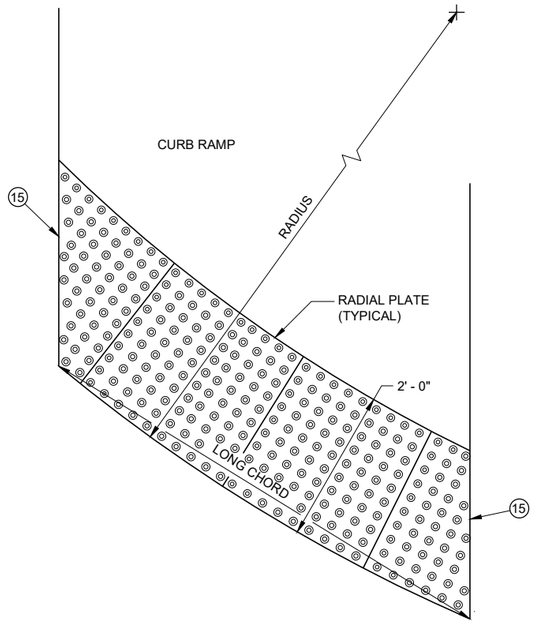
DETERMINE FINAL RADIAL WARNING FIELD CONFIGURATION AND ITS INDIVIDUAL PLATE LOCATIONS. PERFORM PRE-LAYOUT PRIOR TO PLACEMENT IN PLASTIC CONCRETE. FOLLOW MANUFACTURER'S PRODUCT LIST AND INSTALLATION RECOMMENDATIONS.

FOR RADIAL DETECTABLE WARNING FIELD APPLICATIONS WHERE STANDARD RADIAL PLATES ARE NOT AVAILABLE AT AN INTERSECTION CURB RADIUS, A COMBINATION OF SQUARE OR RECTANGULAR PLATES AND RADIAL PLATES MAY BE USED TO FORM RADIAL CONFIGURATION. RADIAL WEDGE PLATES IN COMBINATION WITH SQUARE PLATES ARE ALSO ACCEPTABLE. FOLLOW MANUFACTURER'S RECOMMENDATIONS.

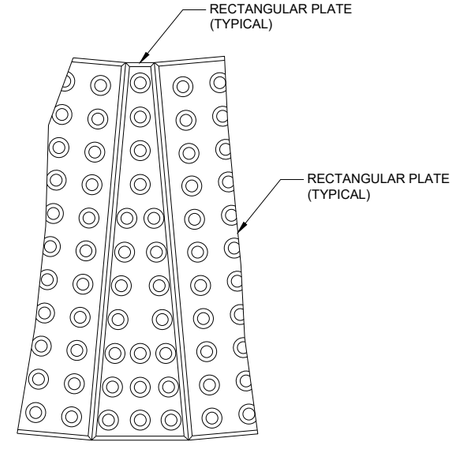
REFER TO CONTRACT AND STANDARD SPECIFICATIONS FOR FIELD CUTTING REQUIREMENTS.

DO NOT EMBED IN CONCRETE ANY FIELD-CUT PLATES WITH CUT EDGES SHORTER THAN 6 INCHES. CONSULT WITH MANUFACTURER FOR RE-DRILLING AND ANCHORING REQUIREMENTS OF FIELD-CUT PLATES.

(15) FIELD SAW CUTS ALONG RADIAL DETECTABLE WARNING PLATES WILL BE NECESSARY TO MATCH EACH CURB RAMP EDGE. AVOID CUTTING THROUGH DOMES WHENEVER POSSIBLE. MAKE FIELD CUTS TRUE TO LINE AND WITHIN ⅛" DEVIATION. SMOOTH EDGES OF FIELD CUT PLATES.



PLAN VIEW
RADIAL DETECTABLE WARNING FIELD ATTRIBUTES



PLAN VIEW
RADIAL WEDGE PLATE CONNECTION DETAIL

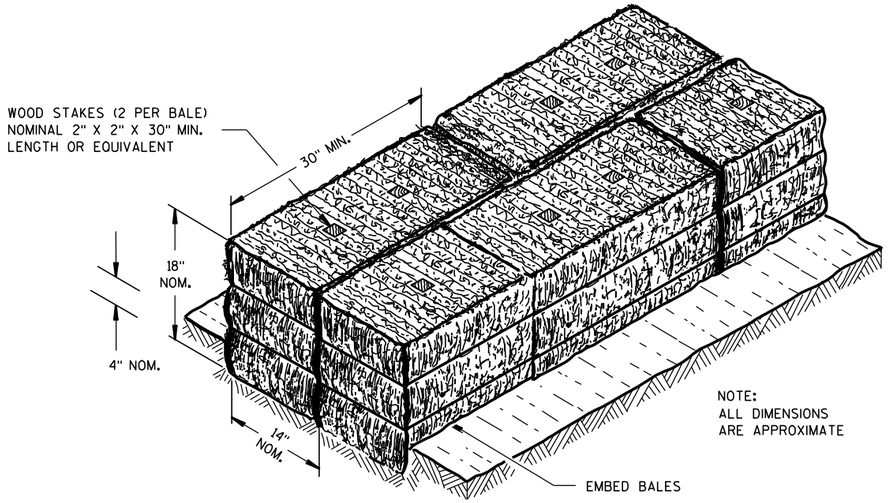
CURB RAMPS
RECTANGULAR AND RADIAL
DETECTABLE WARNING PLATES

STATE OF WISCONSIN
DEPARTMENT OF TRANSPORTATION

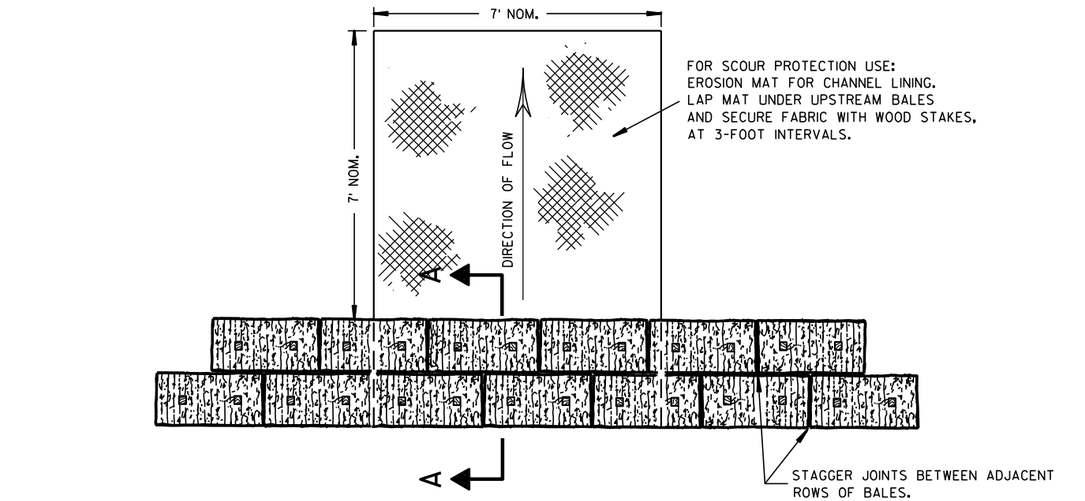
APPROVED
May 2019
DATE
/S/ Rodney Taylor
ROADWAY STANDARDS DEVE UNIT SUPERVISOR

FHWA

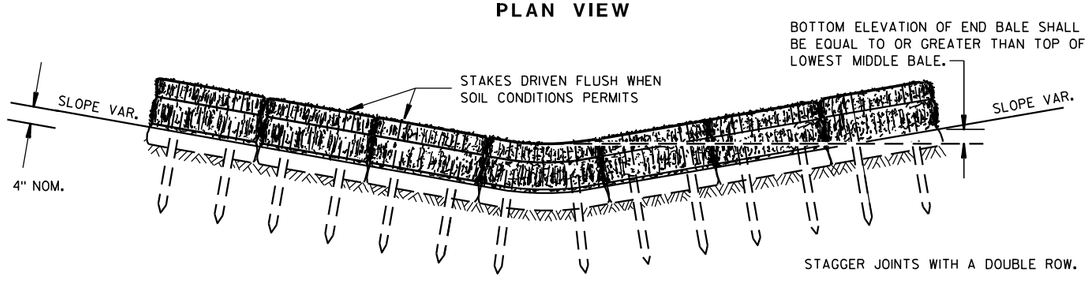
6
SDD 08D05 - 20g



SECTION A-A



PLAN VIEW



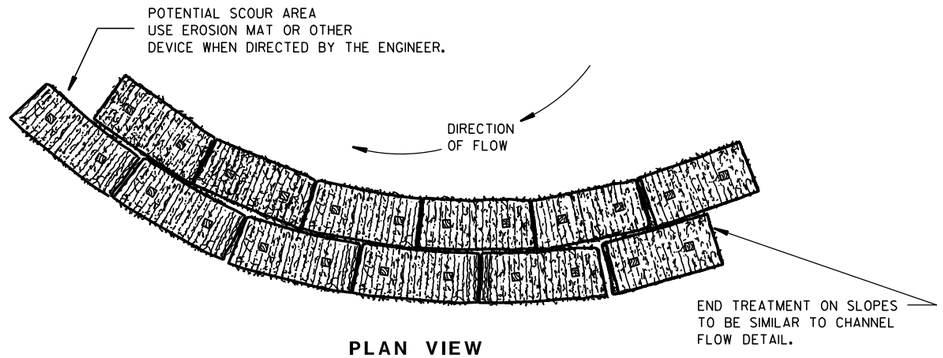
FRONT ELEVATION

TEMPORARY DITCH CHECK USING EROSION BALES ①

GENERAL NOTES

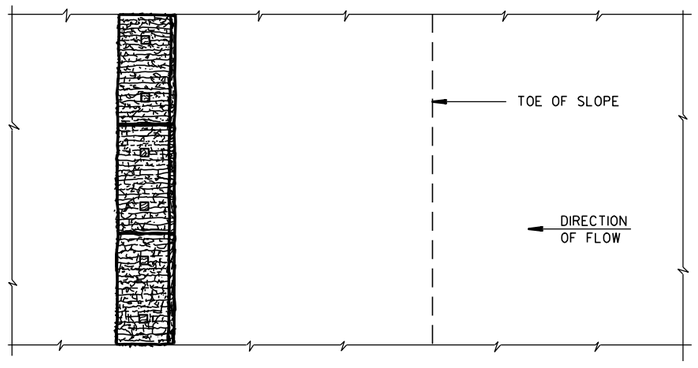
DETAILS OF CONSTRUCTION, MATERIALS AND WORKMANSHIP NOT SHOWN ON THIS DRAWING SHALL CONFORM TO THE PERTINENT REQUIREMENTS OF THE STANDARD SPECIFICATIONS AND THE APPLICABLE SPECIAL PROVISIONS.

① 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.

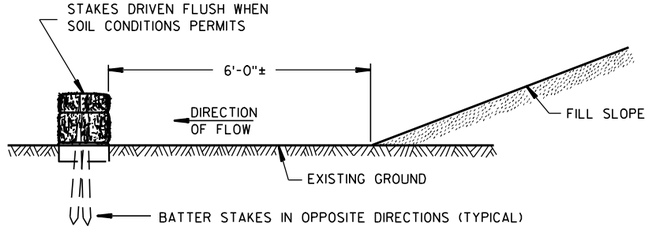


PLAN VIEW

WHEN ALTERING THE DIRECTION OF FLOW



PLAN VIEW



FRONT ELEVATION

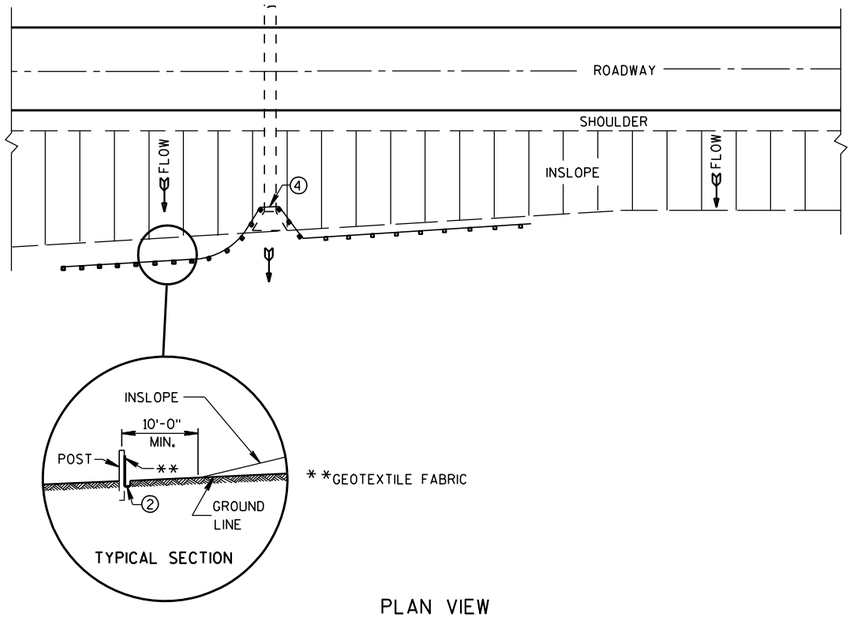
WHEN EXISTING GROUND SLOPES AWAY FROM FILL SLOPE

EROSION BALES FOR SHEET FLOW

TYPICAL INSTALLATIONS OF EROSION BALES / TEMPORARY DITCH CHECKS

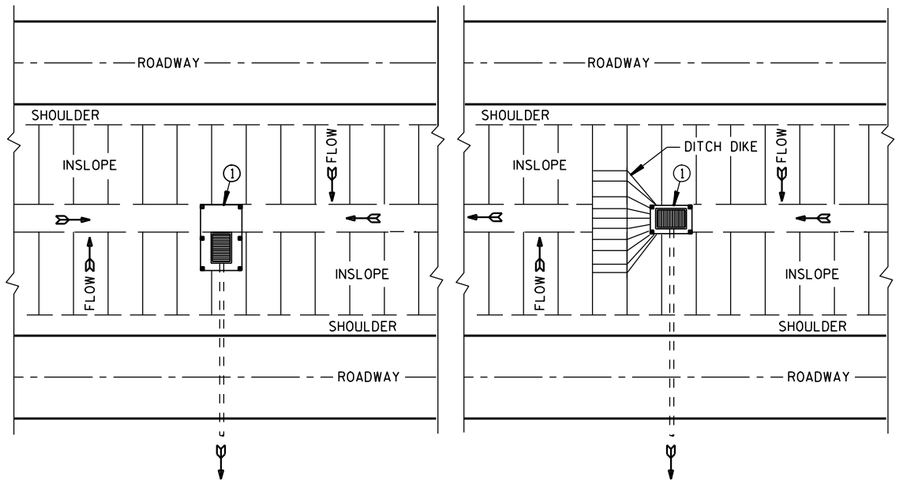
STATE OF WISCONSIN
DEPARTMENT OF TRANSPORTATION

APPROVED
6/04/02 DATE
/S/ Beth Cannestra
CHIEF ROADWAY DEVELOPMENT ENGINEER
FHWA



PLAN VIEW

TYPICAL APPLICATION OF SILT FENCE



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.

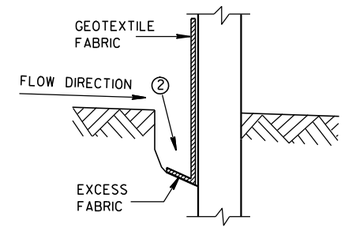
① HORIZONTAL BRACE REQUIRED WITH 2" X 4" WOODEN FRAME OR EQUIVALENT AT TOP OF POSTS.

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.

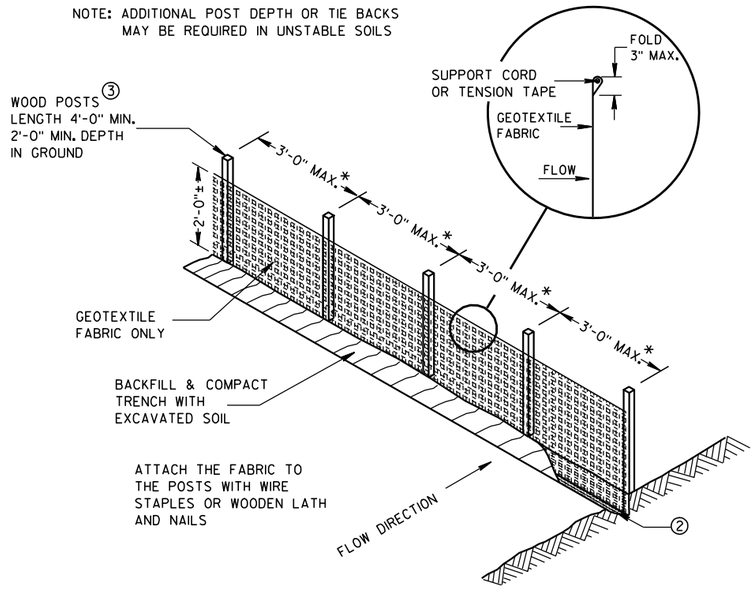
③ WOOD POSTS SHALL BE A MINIMUM SIZE OF 1⅛" X 1⅛" OF OAK OR HICKORY.

④ SILT FENCE TO EXTEND ACROSS THE TOP OF THE PIPE.

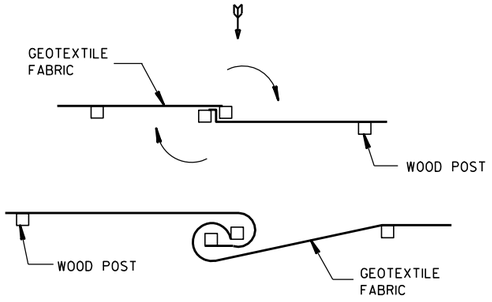
⑤ CONSTRUCT SILT FENCE FROM A CONTINUOUS ROLL IF POSSIBLE BY CUTTING LENGTHS TO AVOID JOINTS. IF A JOINT IS NECESSARY USE ONE OF THE FOLLOWING TWO METHODS; A) OVERLAP THE END POSTS AND TWIST, OR ROTATE, AT LEAST 180 DEGREES, B) HOOK THE END OF EACH SILT FENCE LENGTH.



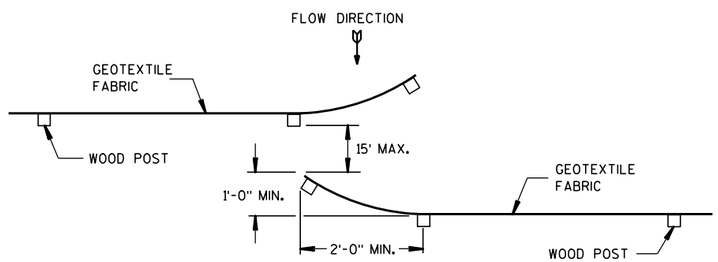
TRENCH DETAIL



SILT FENCE

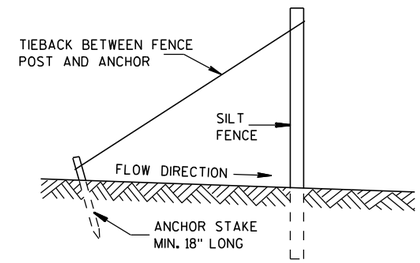


TWIST METHOD



HOOK METHOD

JOINING TWO LENGTHS OF SILT FENCE ⑤



SILT FENCE TIE BACK

(WHEN REQUIRED BY THE ENGINEER)

SILT FENCE

STATE OF WISCONSIN
DEPARTMENT OF TRANSPORTATION

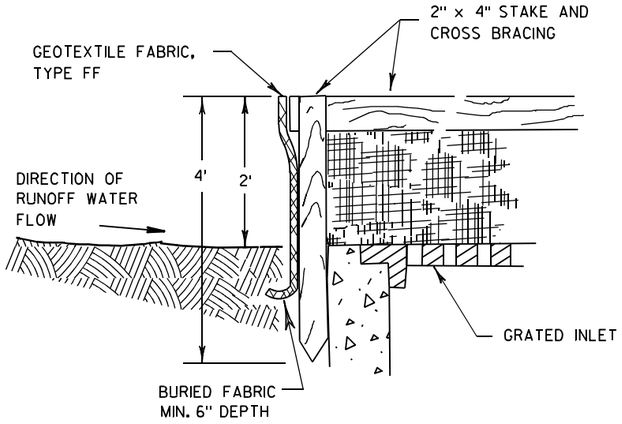
APPROVED
4-29-05 DATE
/S/ Beth Cannestra
CHIEF ROADWAY DEVELOPMENT ENGINEER
FHWA

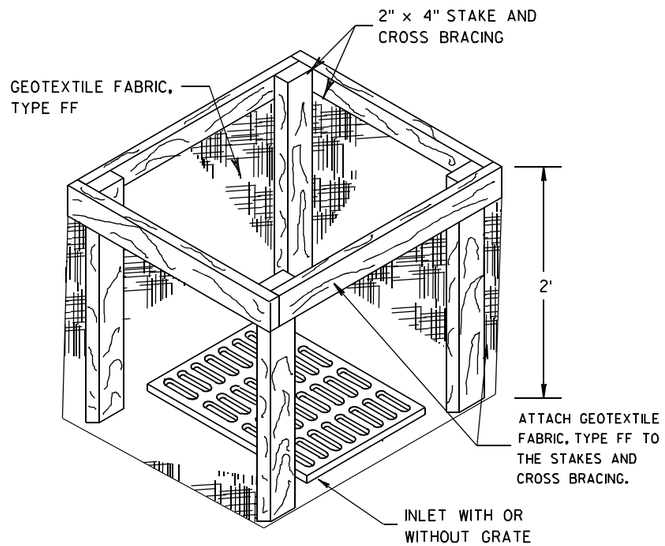
6

S.D.D. 8 E 9-6

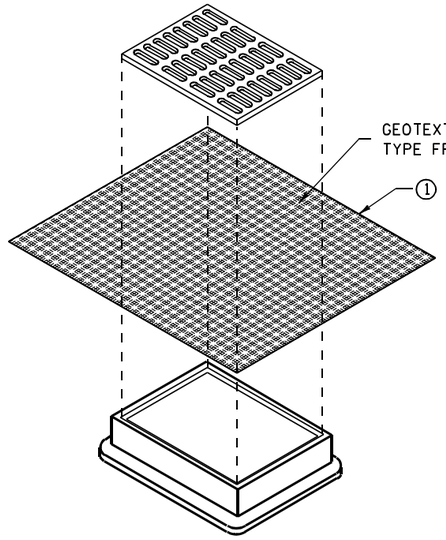
6

S.D.D. 8 E 9-6



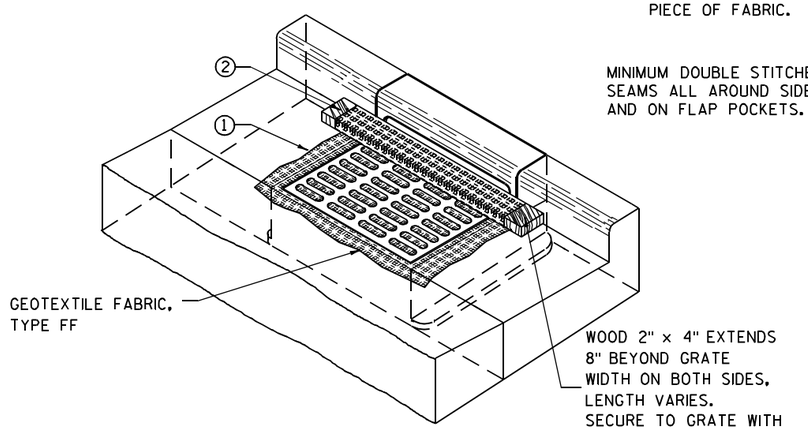


INLET PROTECTION, TYPE A

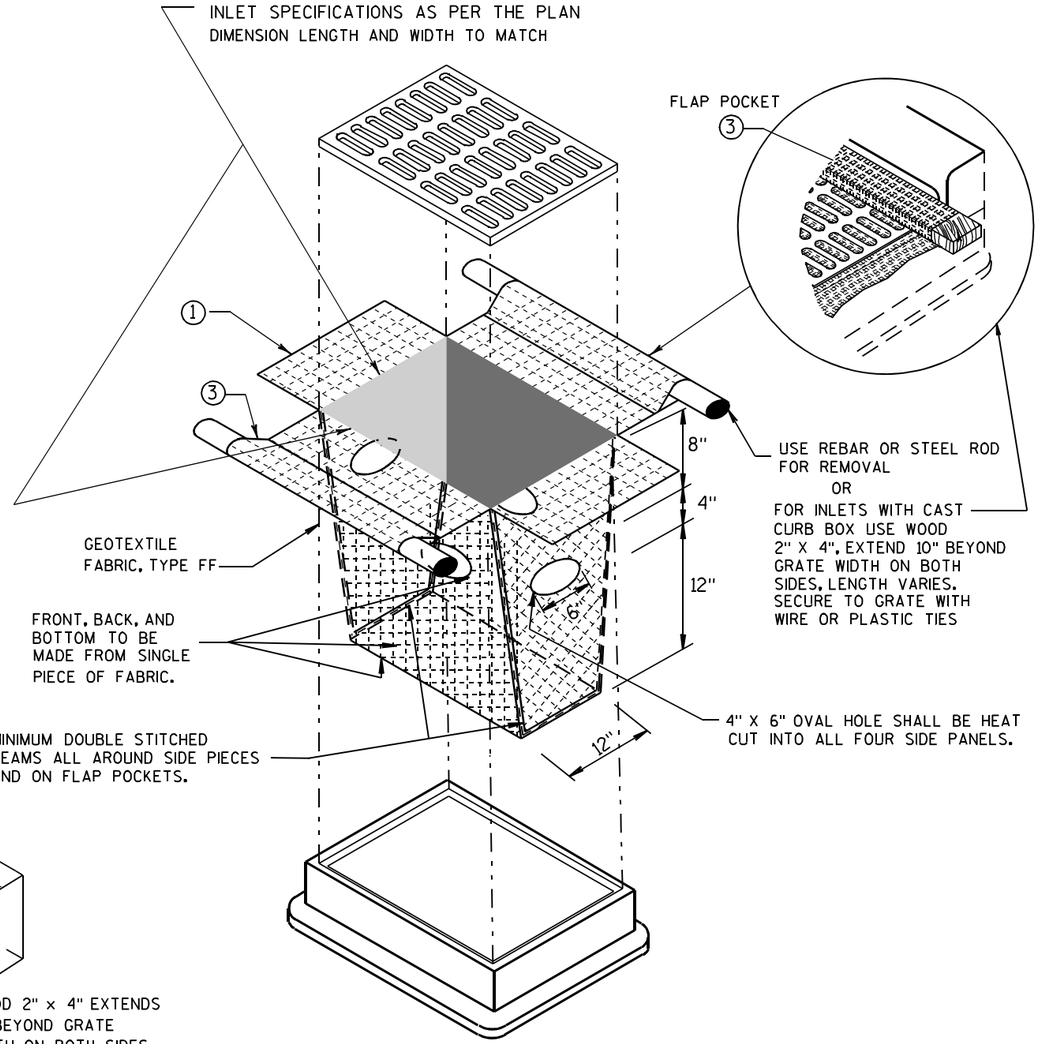


INLET PROTECTION, TYPE B
(WITHOUT CURB BOX)

(CAN BE INSTALLED IN ANY INLET WITHOUT A CURB BOX)



INLET PROTECTION, TYPE C (WITH CURB BOX)



INLET PROTECTION, TYPE D

(CAN BE INSTALLED IN ANY INLET TYPE WITH
OR WITHOUT A CURB BOX AS PER NOTE ②)

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 SUBSTITUTED.

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.

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.

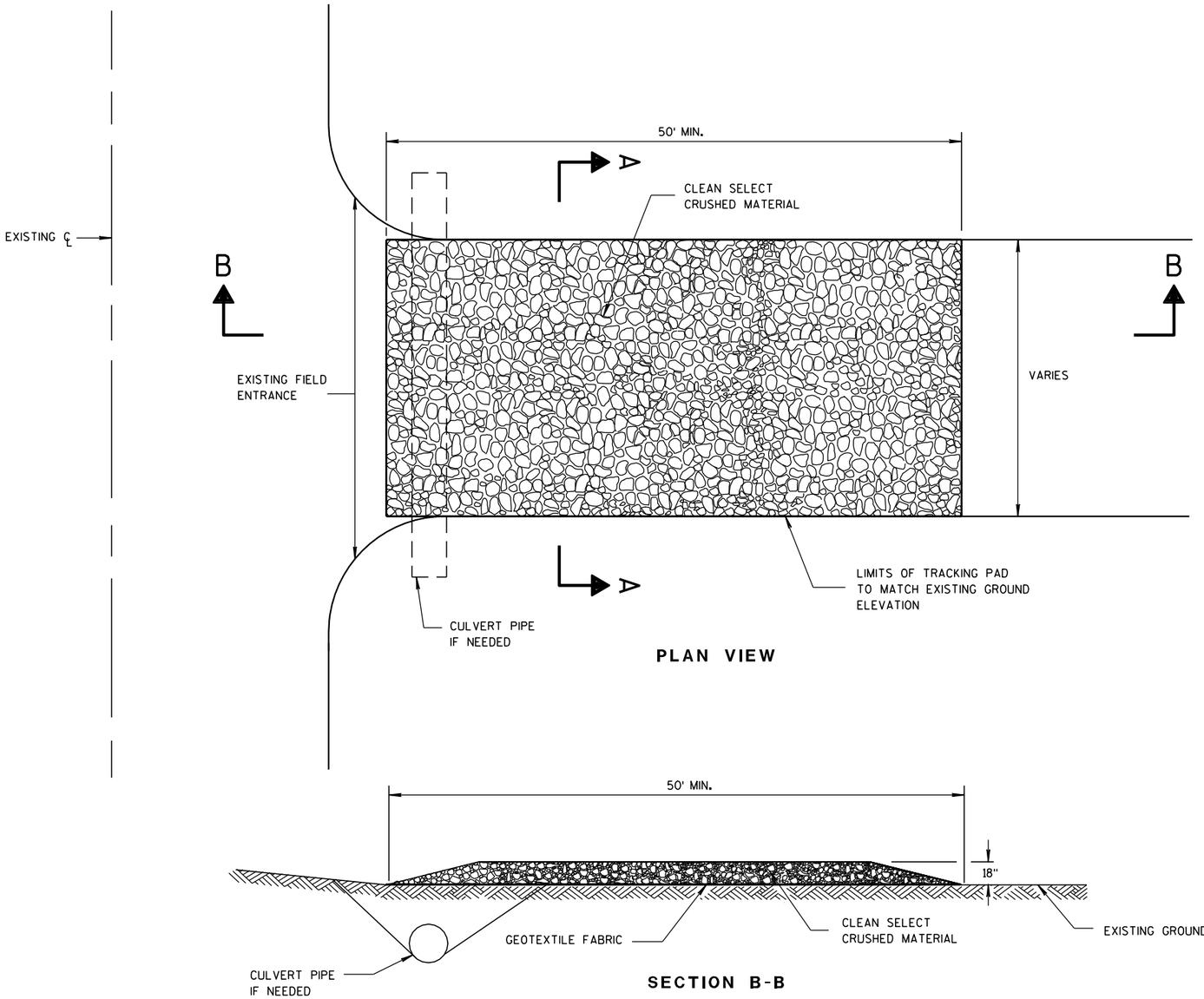
THE INSTALLED BAG SHALL HAVE A MINIMUM SIDE CLEARANCE, BETWEEN THE INLET WALLS AND THE BAG, MEASURED AT THE BOTTOM OF THE OVERFLOW HOLES, OF 3". WHERE NECESSARY THE CONTRACTOR SHALL CINCH THE BAG, USING PLASTIC ZIP TIES, TO ACHIEVE THE 3" CLEARANCE. THE TIES SHALL BE PLACED AT A MAXIMUM OF 4" FROM THE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

INLET PROTECTION
TYPE A, B, C, AND D

STATE OF WISCONSIN
DEPARTMENT OF TRANSPORTATION

APPROVED
10/16/02
DATE
/S/ Beth Cannestra
CHIEF ROADWAY DEVELOPMENT ENGINEER
FHWA

6
S.D.D. 8 E 10-2



PLAN VIEW

SECTION B-B

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.

TRACKING PAD SHALL BE INSPECTED DAILY. DEFICIENT AREAS SHALL BE REPAIRED OR REPLACED IMMEDIATELY.

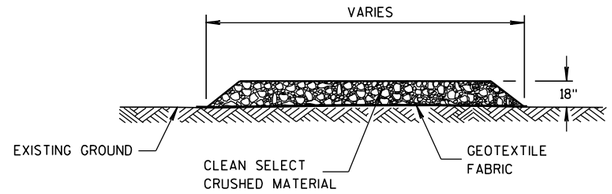
TRACKING PAD TO BE REMOVED AFTER CONSTRUCTION IS COMPLETED.

TRACKING PAD SHALL BE THE FULL WIDTH OF THE EGRESS POINT.

SURFACE WATER MUST BE PREVENTED FROM PASSING THROUGH THE TRACKING PAD. FLOWS SHALL BE DIVERTED AWAY, AROUND OR CONVEYED UNDER THE TRACKING PAD.

CULVERT PIPE OR OTHER BMP USED TO DIVERT WATER AWAY, AROUND OR UNDER THE TRACKING PAD SHALL BE DESIGNED TO CONVEY THE 2 YEAR - 24 HOUR EVENT.

THE COST OF ADDITIONAL BMP TO DIVERT WATER ARE INCIDENTAL TO THE TRACKING PAD BID ITEM.



SECTION A-A

TRACKING PAD

TRACKING PAD

STATE OF WISCONSIN
DEPARTMENT OF TRANSPORTATION

APPROVED
3/24/2011 — DATE
/S/ Jerry H. Zoda — ROADWAY STANDARDS ENGINEER
ENT
FHWA

6

S.D.D. 8 E 14-1

6

S.D.D. 8 E 14-1

METAL APRON ENDWALLS

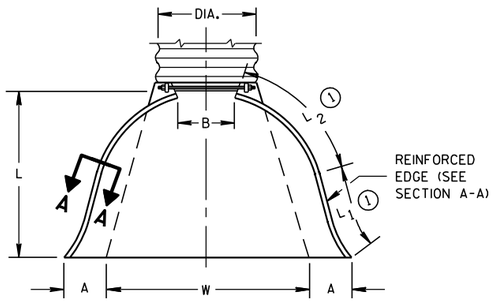
PIPE DIA. (IN.)	MIN. THICK. (Inches) STEEL	MIN. THICK. (Inches) ALUM.	DIMENSIONS (Inches) A (±1")	B (MAX.)	H (±1")	L (±1 1/2")	L1 ①	L2 ①	W (±2")	APPROX. SLOPE	BODY
12	.064	.060	6	6	6	21	12	17 1/2	24	2 1/2 to 1	1 Pc.
15	.064	.060	7	8	6	26	14	21 3/4	30	2 1/2 to 1	1 Pc.
18	.064	.060	8	10	6	31	15	28 1/4	36	2 1/2 to 1	1 Pc.
21	.064	.060	9	12	6	36	18	29 5/8	42	2 1/2 to 1	1 Pc.
24	.064	.075	10	13	6	41	18	37 1/4	48	2 1/2 to 1	1 Pc.
30	.079	.075	12	16	8	51	18	52 1/4	60	2 1/2 to 1	1 Pc.
36	.079	.105	14	19	9	60	24	59 3/4	72	2 1/2 to 1	2 Pc.
42	.109	.105	16	22	11	69	24	75 5/8	84	2 1/2 to 1	2 Pc.
48	.109	.105	18	27	12	78	24	81	90	2 1/4 to 1	3 Pc.
54	.109	.105	18	30	12	84	30	85 1/2	102	2 1/4 to 1	3 Pc.
60	.109×	.105×	18	33	12	87	—	—	114	2 to 1	3 Pc.
66	.109×	.105×	18	36	12	87	—	—	120	2 to 1	3 Pc.
72	.109×	.105×	18	39	12	87	—	—	126	2 to 1	3 Pc.
78	.109×	.105×	18	42	12	87	—	—	132	1 1/2 to 1	3 Pc.
84	.109×	.105×	18	45	12	87	—	—	138	1 1/2 to 1	3 Pc.
90	.109×	.105×	18	37	12	87	—	—	144	1 1/2 to 1	3 Pc.
96	.109×	.105×	18	35	12	87	—	—	150	1 1/2 to 1	3 Pc.

× EXCEPT CENTER PANEL SEE GENERAL NOTES

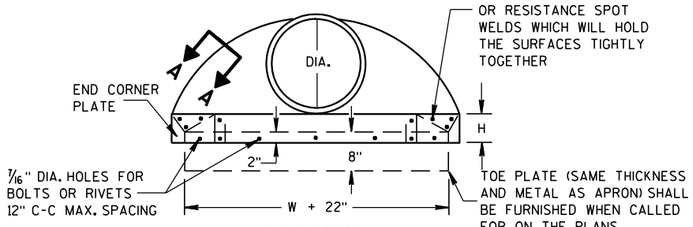
REINFORCED CONCRETE APRON ENDWALLS

PIPE DIA. (IN.)	DIMENSIONS (Inches) T	A	B	C	D	E	G	APPROX. SLOPE
12	2	4	24	48 7/8	72 1/8	24	2	3 to 1
15	2 1/4	6	27	46	73	30	2 1/4	3 to 1
18	2 1/2	9	27	46	73	36	2 1/2	3 to 1
21	2 3/4	9	36	37 1/2	73 1/2	42	2 3/4	3 to 1
24	3	9 1/2	43 1/2	30	73 1/2	48	3	3 to 1
27	3 1/4	10 1/2	49 1/2	24	73 1/2	54	3 1/4	3 to 1
30	3 1/2	12	54	19 3/4	73 1/2	60	3 1/2	3 to 1
36	4	15	63	34 3/4	97 3/4	72	4	3 to 1
42	4 1/2	21	63	35	98	78	4 1/2	3 to 1
48	5	24	72	26	98	84	5	3 to 1
54	5 1/2	27	65	* 33 1/4 - ** 35	* 98 1/4 - ** 100	90	5 1/2	2 2/5 to 1
60	6	* 30 - ** 35	60	39	99	96	5	2 to 1
66	6 1/2	* 24 - ** 30	* 72 - ** 78	* 21 - ** 27	99	102	5 1/2	2 to 1
72	7	* 24 - ** 36	78	21	99	108	6	2 to 1
78	7 1/2	* 24 - ** 36	78	21	99	114	6 1/2	2 to 1
84	8	36	90 1/2	21	111 1/2	120	6 1/2	1 1/2 to 1
90	8 1/2	41	87 1/2	24	111 1/2	132	6 1/2	1 1/2 to 1

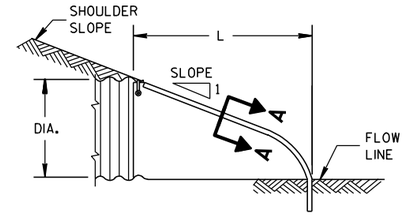
* MINIMUM
** MAXIMUM



PLAN VIEW

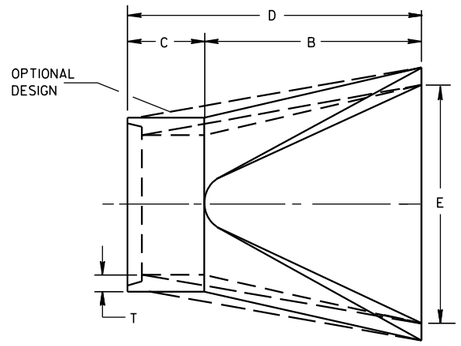


END VIEW

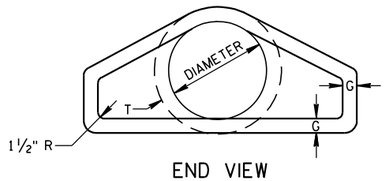


SIDE ELEVATION

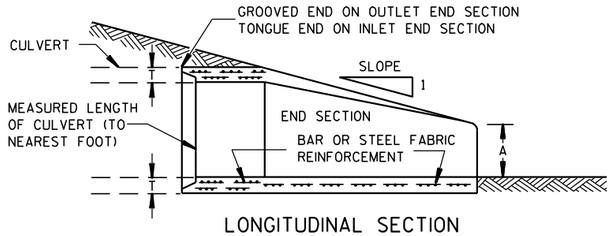
METAL ENDWALLS



PLAN

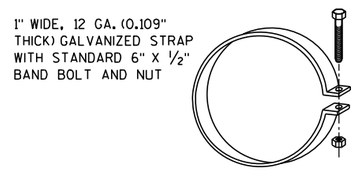


END VIEW



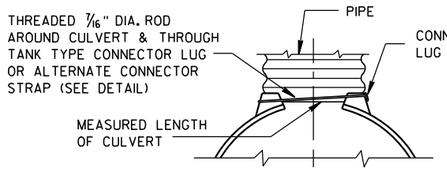
LONGITUDINAL SECTION

CONCRETE ENDWALLS

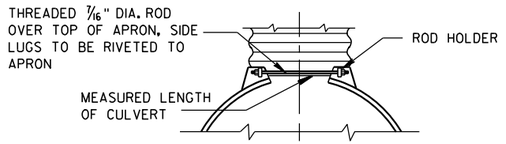


ALTERNATE FOR TYPE 1 CONNECTION

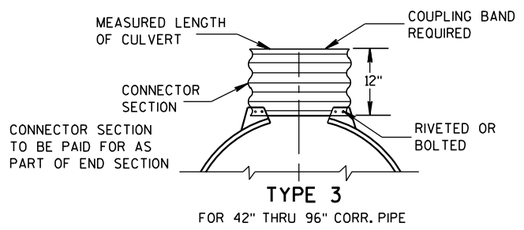
END SECTION CONNECTOR STRAP



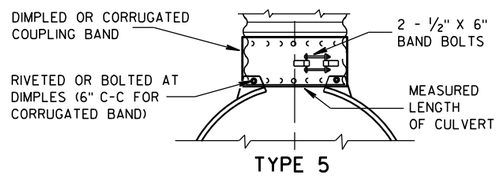
TYPE 1
FOR 12" THRU 24" CORR. PIPE



TYPE 2
FOR 30" THRU 96" CORR. PIPE



TYPE 3
FOR 42" THRU 96" CORR. PIPE



TYPE 5
ALTERNATE FOR:
ALL SIZES CORRUGATED CIRCULAR PIPE

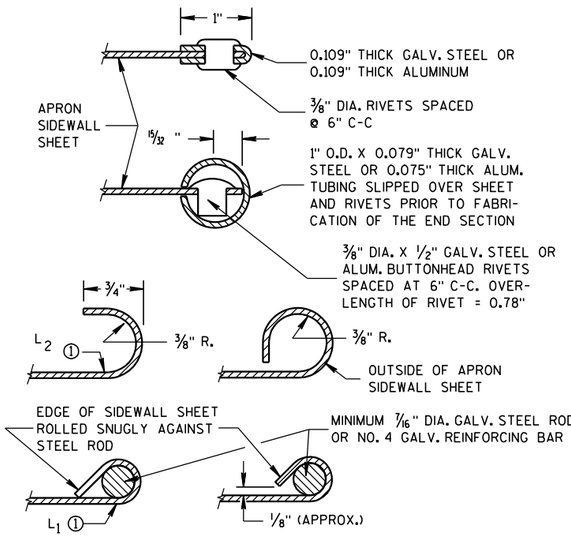
NOTE: DIMPLED BAND FITS OVER OUTSIDE OF ENDWALL. AND CORRUGATED BAND FITS INSIDE ENDWALL. DIMPLED BAND MAY BE USED WITH HELICALLY CORRUGATED PIPE.

FOR CIRCUMFERENTIALLY CORRUGATED PIPE USE ENDWALL CONNECTION DETAILS 1, 2, 3 OR 5 AS APPLICABLE.

FOR HELICALLY CORRUGATED PIPE USE ENDWALL CONNECTION DETAILS 1, 2 OR 5.

FOR HELICALLY CORRUGATED PIPES WITH TWO CIRCUMFERENTIAL CORRUGATIONS AT EACH END USE ENDWALL CONNECTION DETAILS 1, 2 OR 3.

CONNECTION DETAILS



SECTION A-A

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.

CONCRETE CULVERT ENDWALLS MAY NOT BE USED WITH GALVANIZED STEEL OR ALUMINUM CULVERT PIPE OR VISE VERSA. GALVANIZED STEEL OR ALUMINUM ENDWALLS SHALL NORMALLY BE INSTALLED ON CULVERT PIPE OF THE SAME METAL.

ALL THREE PIECE STEEL APRON ENDWALLS FOR 60" DIAMETER PIPE AND LARGER SHALL HAVE 0.109" SIDES AND 0.138" CENTER PANELS. ALL THREE PIECE ALUMINUM APRON ENDWALLS FOR 60" DIAMETER PIPE AND LARGER SHALL HAVE 0.105" SIDES AND 0.134" CENTER PANELS. THE WIDTH OF CENTER PANELS SHALL BE GREATER THAN 20 PERCENT OF THE PIPE PERIMETER.

LAP SEAMS SHALL BE TIGHTLY JOINED BY GALVANIZED RIVETS OR BOLTS FOR STEEL UNITS AND ALUMINUM RIVETS AND BOLTS FOR ALUMINUM UNITS. FOR THE 60" THROUGH 96" DIAMETER APRON ENDWALL SIZES, THE REINFORCED EDGES AND CENTER PANEL SEAMS SHALL BE FURTHER REINFORCED WITH GALVANIZED STEEL OR ALUMINUM STIFFENER ANGLES. THE ANGLES SHALL BE ATTACHED BY GALVANIZED NUTS AND BOLTS FOR STEEL UNITS AND ALUMINUM NUTS AND BOLTS FOR ALUMINUM UNITS.

WHERE TWO OR MORE PIPES WITH APRON ENDWALLS ARE LAID ADJACENT TO EACH OTHER, THEY SHALL BE SEPARATED BY A DISTANCE SUFFICIENT TO PROVIDE A MINIMUM CLEARANCE OF 6 INCHES BETWEEN APRON ENDWALLS.

① FOR PIPE SIZES UP TO 60" DIAMETER, A 180° ROLLED EDGE MAY BE USED INSTEAD OF STEEL ROD REINFORCEMENT. SEE SECTION A-A.

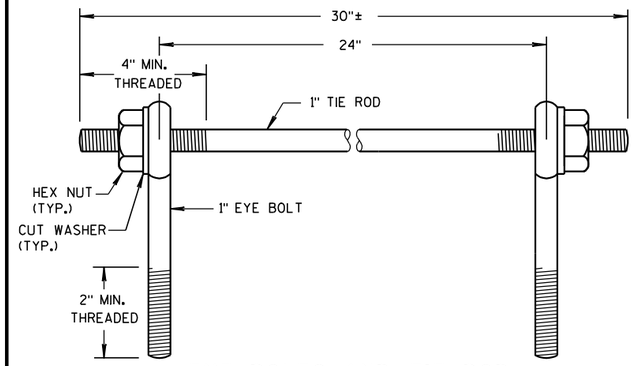
APRON ENDWALLS FOR CULVERT PIPE

STATE OF WISCONSIN
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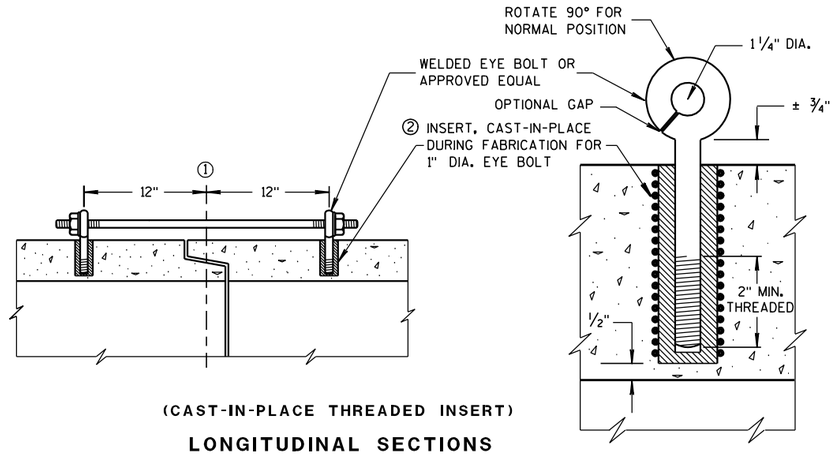
APPROVED
11/30/94 DATE
/S/ Rory L. Rhinesmith
CHIEF ROADWAY DEVELOPMENT ENGINEER
FHWA

6

S.D.D. 8 F 1-11



EYE BOLTS AND TIE ROD



(CAST-IN-PLACE THREADED INSERT)

LONGITUDINAL SECTIONS

EYE BOLT AND TIE ROD ASSEMBLY (ALTERNATE NO. 1)

GENERAL NOTES

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

CONCRETE CULVERT AND STORM SEWER PIPE SHALL BE TIED TOGETHER IN THE MANNER ILLUSTRATED BY THIS DETAIL AT LOCATIONS DESIGNATED IN THE STANDARD SPECIFICATIONS AND THE PLAN. THE CONTRACTOR MAY USE EITHER ALTERNATE 1, 2 OR 3 FOR DRAINAGE STRUCTURES. ONLY ALTERNATE 1 AND 3 MAY BE USED FOR CATTLE PASSES, UNLESS OTHERWISE STATED IN THE CONTRACT. THE MATERIALS, FABRICATION AND WORK NECESSARY TO TIE THE PIPE BY THIS DETAIL WILL BE CONSIDERED INCIDENTAL TO THE PIPE AND APRON ENDWALLS IF REQUIRED.

DETAILED DRAWINGS FOR PROPOSED ALTERNATE DESIGNS FOR JOINT TIES SHALL BE SUBMITTED TO THE ENGINEER FOR APPROVAL.

JOINT TIES TO BE HOT-DIP GALVANIZED PER ASTM A 153.

① ℄ OF TONGUE AND GROOVE OR BELL AND SPIGOT JOINTS.

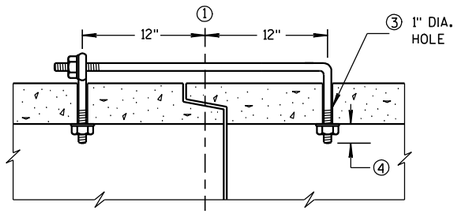
② THE INSIDE OF THE THREADED INSERTS SHALL BE CLEAN TO ALLOW THE INSERTION OF THREADED EYE BOLTS.

③ HOLES SHALL BE CAST-IN-PLACE OR DRILLED 12 INCHES FROM ℄ OF TONGUE AND GROOVE.

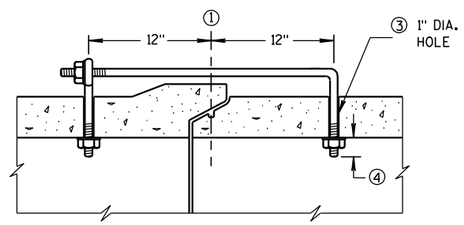
④ BOLT PROJECTION INSIDE OF PIPE SHALL NOT EXCEED 2 INCHES.

⑤ OPENING TO BE ROD DIAMETER PLUS 1 INCH.

⑥ LENGTH ADEQUATE TO EXTEND TO WITHIN 1/2 INCH OF THE INNER SURFACE OF THE PIPE.



(TONGUE & GROOVE PIPE)

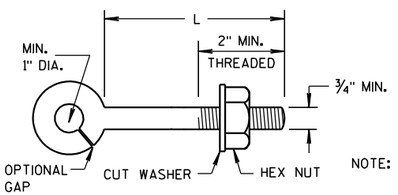


(MODIFIED BELL PIPE)

LONGITUDINAL SECTION

EYE BOLT DIMENSION TABLE

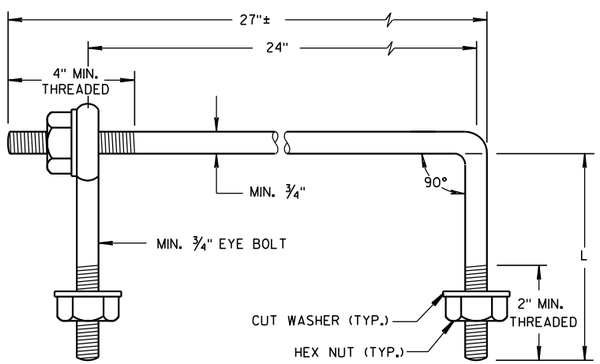
PIPE SIZE	L = LENGTH	
	TONGUE & GROOVE PIPE	MODIFIED BELL PIPE
18" TO 24"	4 1/2"	6 1/4"
30"	5"	7"
36"	5 1/2"	7"
42"	6"	
48"	6 1/2"	
60"	7 1/2"	
66"	8"	



NOTE:

EYE BOLT

NOTE: TWO EYE BOLTS MAY BE USED WITH A 30" LONG THREADED ROD IN LIEU OF THE 90° BENT TIE ROD.



EYE BOLT AND TIE ROD

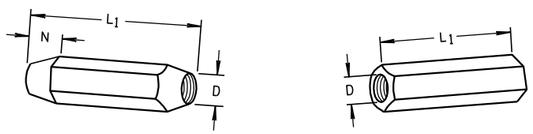
(JOINT TIES FOR 18" TO 66" DIA. CONCRETE PIPE)

EYE BOLT AND TIE ROD ASSEMBLY (ALTERNATE NO. 2)

ADJUSTABLE TIE ROD TABLE

PIPE DIAMETER	TIE ROD DIAMETER	D	L_1	N
12-60	5/8	5/8	5	1/2
66-84	3/4	3/4	5	1/2
90-108	1	1	7	1 1/16

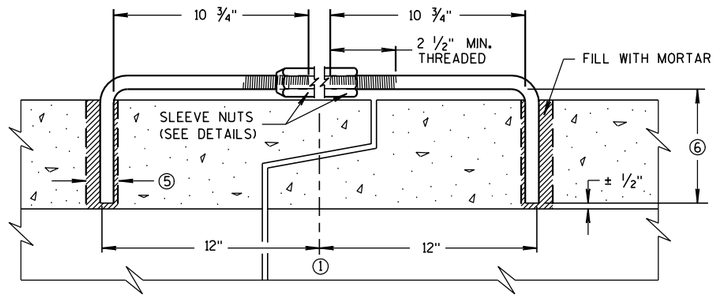
DIMENSIONS SHOWN ARE IN INCHES



TAPERED PLAIN

RIGHT AND LEFT THREADS

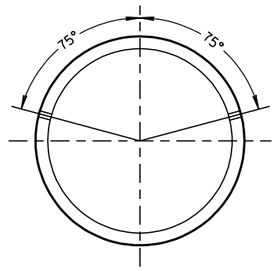
SLEEVE NUTS



LONGITUDINAL SECTION

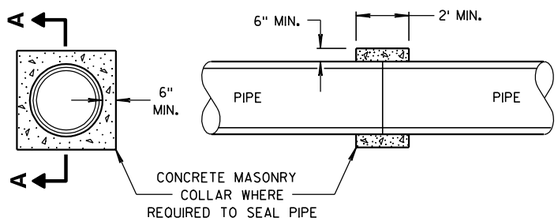
(JOINT TIES FOR 12" TO 108" DIA. CONCRETE PIPE)

ADJUSTABLE TIE ROD (ALTERNATE NO. 3)



PLACEMENT OF (2) CAST-IN-PLACE INSERTS OR HOLES DURING FABRICATION FOR PIPE SECTIONS REQUIRING TIE RODS

TRANSVERSE SECTION



SECTION A-A

CONCRETE COLLAR DETAIL

JOINT TIES FOR CONCRETE PIPE AND CONCRETE COLLAR DETAIL

STATE OF WISCONSIN
DEPARTMENT OF TRANSPORTATION

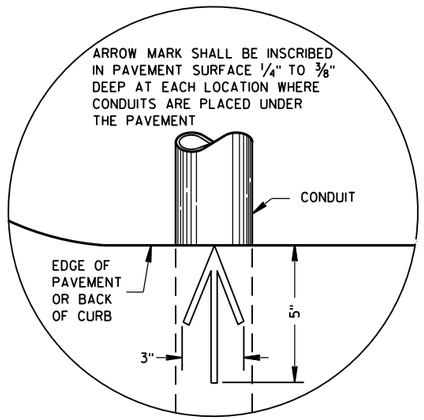
APPROVED
6/5/2012 — DATE
/S/ Jerry H. Zogg — ROADWAY STANDARDS ENGINEER
FHWA

6

S.D.D. 8 F 4-7

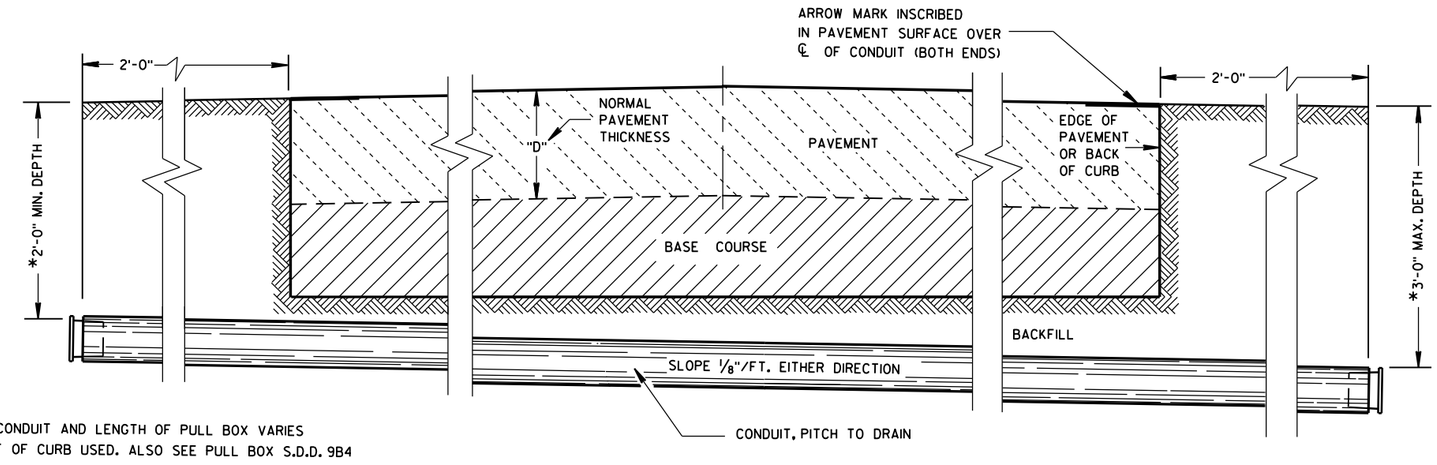
6

S.D.D. 8 F 4-7



PLAN VIEW

ARROW MARK



*DEPTH OF CONDUIT AND LENGTH OF PULL BOX VARIES WITH HEIGHT OF CURB USED. ALSO SEE PULL BOX S.D.D. 9B4

SIDE ELEVATION

DETAIL FOR CONDUIT UNDER PAVED HIGHWAYS

GENERAL NOTES

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

METALLIC (STANDARD SPECIFICATION 652.2.2) OR NONMETALLIC (STANDARD SPECIFICATION 652.2.3) CONDUIT SHALL BE FURNISHED AND PLACED AS SHOWN.

DEPTH OF CONDUIT INSTALLED BELOW THE TRAVELED WAY SHALL BE 24 INCHES MINIMUM AND 36 INCHES MAXIMUM.

DEPTH OF CONDUIT INSTALLED THAT IS NOT BELOW THE TRAVELED WAY SHALL BE 18 INCHES MINIMUM AND 36 INCHES MAXIMUM.

ANY EXCEPTION TO THE MAXIMUM DEPTH SHALL BE ONLY WITH THE WRITTEN APPROVAL OF THE ENGINEER.

THE TRENCH SHALL NOT BE BACKFILLED PRIOR TO INSPECTION OF THE CONDUIT.

ALL METALLIC CONDUIT RACEWAY ENDS SHALL BE REAMED AND THREADED.

ALL METALLIC CONDUIT IN WHICH WIRE OR CABLE IS TO BE INSTALLED SHALL BE BUSHED WITH APPROVED THREADED BUSHINGS BEFORE INSTALLATION OF THE WIRE OR CABLE.

ALL METALLIC CONDUITS IN WHICH WIRE OR CABLE IS NOT TO BE INSTALLED SHALL BE CAPPED WITH THREADED PROTECTIVE CAPS, AS APPROVED BY THE ENGINEER.

ALL NONMETALLIC CONDUIT SHALL BE CAPPED OR PLUGGED IMMEDIATELY AFTER INSTALLATION AND SHALL REMAIN CAPPED OR PLUGGED UNTIL WIRE/CABLES ARE INSTALLED.

NONMETALLIC CONDUITS IN WHICH WIRE OR CABLE IS NOT BEING INSTALLED SHALL REMAIN CAPPED OR PLUGGED.

BENDING OF PVC ELECTRICAL CONDUIT SHALL BE ACCOMPLISHED BY USING A BLANKET OR EMERSION TYPE TANK DESIGNED FOR THE PURPOSE OF BENDING PVC ELECTRICAL CONDUIT.

ALL CUT ENDS SHALL BE TRIMMED INSIDE AND OUTSIDE TO REMOVE ALL ROUGH EDGES ON NONMETALLIC CONDUIT. (SEE NEC 347.5)

WHEN REQUIRED TO CONNECT NONMETALLIC CONDUIT TO METALLIC CONDUIT, ONLY U.L. LISTED ADAPTER FITTINGS SHALL BE USED.

PRIOR TO CONDUIT ACCEPTANCE, CONDUIT CAPS OR PLUGS SHALL BE REMOVED, AND THE CAPS, PLUGS AND CONDUIT ENDS SHALL BE THOROUGHLY CLEANED AND THEN THE CAPS OR PLUGS REINSTALLED TO ENSURE THAT THE CAPS OR PLUGS CAN BE EASILY REMOVED IN THE FUTURE.

ALL CONDUIT BEING FURNISHED AND INSTALLED SHALL HAVE THE U.L. LABEL FIRMLY ATTACHED.

CONDUIT RUNS SHALL BE THE SAME SIZE OF CONDUIT FROM ONE END TO THE OTHER (FROM PULL BOX TO PULL BOX-OR-JUNCTION BOX TO JUNCTION BOX-OR-BASE TO BASE, ETC.).

TRACER WIRE SHALL BE INSTALLED AS STATED IN THE STANDARD SPECIFICATION, ITEM 652.3.1.1.

ALL CONDUIT RUNS SHALL BE STRAIGHT (WITHOUT BENDS) FROM PULL BOX TO PULL BOX, PULL BOX TO BASE AND BASE TO BASE AS SHOWN ON THE PLANS.

CONDUIT

STATE OF WISCONSIN
DEPARTMENT OF TRANSPORTATION

APPROVED
March, 2017 — DATE
/S/ Ahmet Demirbilek — STATE ELECTRICAL
FHWA

6

S.D.D. 9 B 2-10

TABLE OF NOMINAL DIMENSIONS AND WEIGHTS

DIMENSION IN INCHES		NON-CONDUCTIVE PULL BOX	
BOX DIAMETER ** (INSIDE)	A	24	24
BOX OVERALL OUTSIDE DIAMETER	B	27	27
BOX LENGTH	C	36	42
FRAME OPENING	D	22 1/2	22 1/2
WEIGHT IN POUNDS *			
COVER		50	50
BOX ONLY		75	85

* THE ACTUAL WEIGHT OF THE COVER OR BOX ONLY MAY VARY NOT TO EXCEED 100 LBS INDIVIDUALLY.

** DIAMETER VARIES FROM TOP TO BOTTOM WITH THE DIAMETER LARGER AT THE BOTTOM TO PREVENT FROST HEAVE

GENERAL NOTES

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

ALL BOXES, FRAMES AND COVERS SHALL BE SUITABLE FOR TIER 15 LOADING AS SPECIFIED IN ANSI/SCTE 77.

PROVIDE AN OPENING FOR TOOL ASSISTED COVER REMOVAL NOT LARGE ENOUGH TO PERMIT PASSAGE OF A SPHERE MORE THAN 1/2" DIAMETER

ENSURE COVER SURFACE IS SKID RESISTANT WITH A COEFFICIENT OF FRICTION OF AT LEAST 0.5 AND VERTICAL SURFACE DICONTINUITIES LESS THAN 1/4".

COVER SHALL BE MAGNETICALLY LOCATABLE.

BOXES AND EXTENSIONS ARE TRIMMABLE FOR CUSTOM LENGTHS. TRIMMED PIECES SHALL MAINTAIN A UNIFORM LENGTH.

ENTRANCE HOLES INTO PULL BOXES SHALL BE CUT WITH A CIRCULAR HOLE SAW OR HYDRAULIC CONDUIT PUNCH. HOLE SIZE SHALL BE THE OUTSIDE DIAMETER OF THE CONDUIT THAT IS TO FIT IN THE OPENING PLUS NO MORE THAN 1/4".

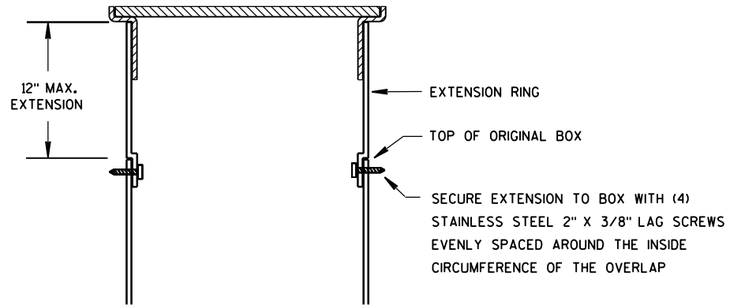
THE CONTRACTOR SHALL NOT INSTALL WIRE IN ANY PULL BOX UNTIL ITS INSTALLATION HAS BEEN INSPECTED AND ACCEPTED BY THE ENGINEER.

ALL METALLIC CONDUIT IN WHICH WIRE AND/OR CABLE IS TO BE INSTALLED, SHALL BE BUSHED BEFORE INSTALLATION OF THE WIRE AND/OR CABLE.

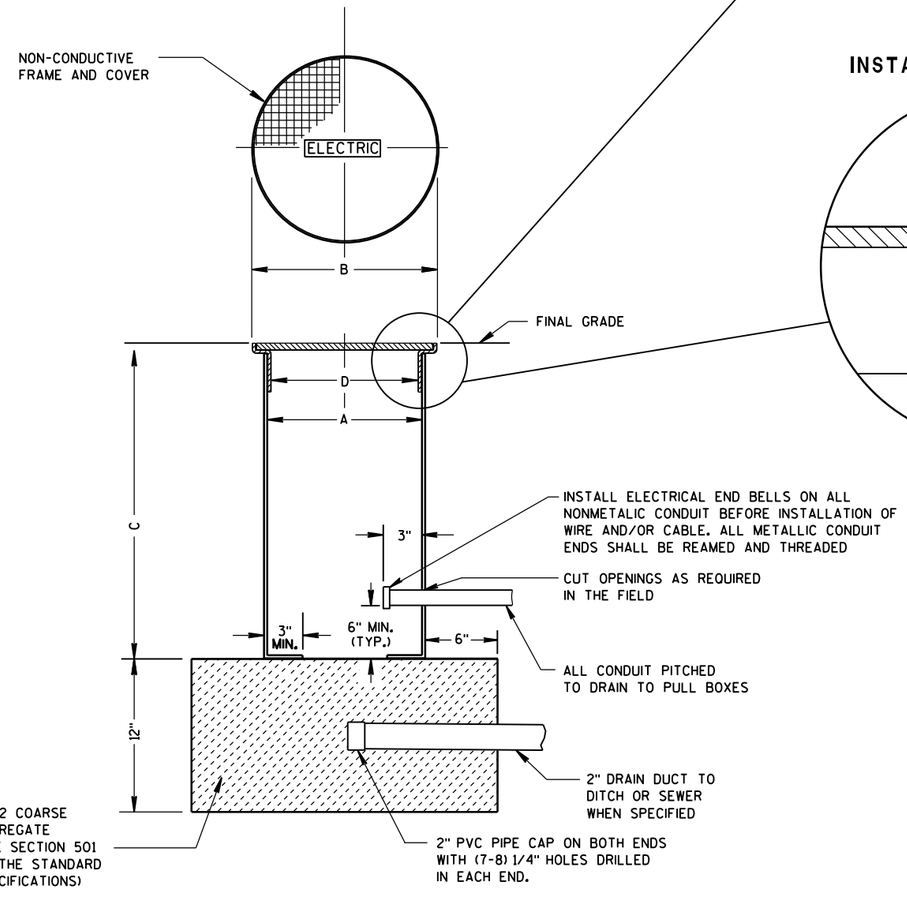
ENTIRE BOX MUST BE CONSTRUCTED OF NON-CONDUCTIVE MATERIALS WITH THE EXCEPTION OF STAINLESS STEEL FASTENERS AND MAGNETIC LOCATABLE DEVICE.

WHEN A PULL BOX IS INSTALLED IN CRUSHED AGGREGATE SHOULDERS, PLACE IT 2-3 INCHES BELOW GRADE AND COVER IT WITH 2-3 INCHES OF CRUSHED AGGREGATE

LABEL ON COVER SHALL READ "ELECTRIC" FOR SIGNAL AND LIGHTING SYSTEMS, "WISDOT ITS" FOR COMMUNICATIONS AND ITS EQUIPMENT SYSTEMS.

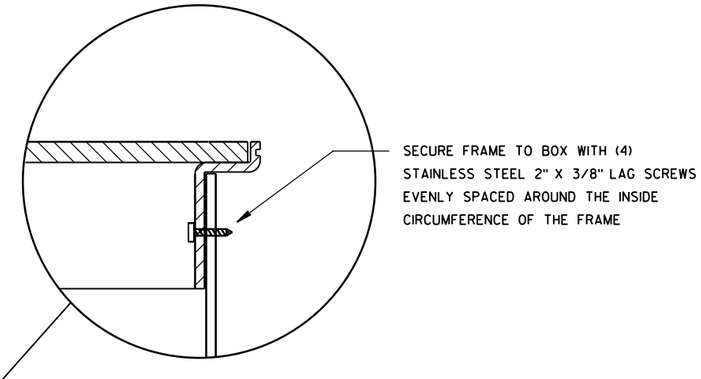


BOX EXTENSION

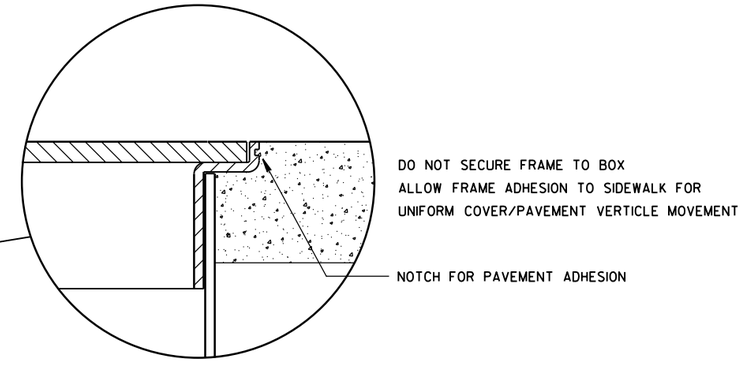


NON-CONDUCTIVE PULL BOX

INSTALLED IN SOD OR CRUSHED AGGREGATE



INSTALLED IN SIDEWALK



PULL BOX NON-CONDUCTIVE

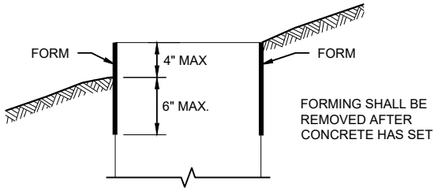
STATE OF WISCONSIN
DEPARTMENT OF TRANSPORTATION

APPROVED
May 2017 — DATE
/S/ Ahmet Demirbilek — STATE ELECTRICAL
FHWA

6

S.D.D. 9 B 16-1

FORM DEPTH SHALL BE NO MORE THAN 6" BELOW GRADE ON THE LOWER SIDE OF BASE



FORMING DETAIL

QUANTITY REQUIREMENTS	CONCRETE BASE TYPE		
	1	2	5 & 6
APPROX. CUBIC YARDS OF CONCRETE	0.40	0.57	0.40
LBS. OF HOOP BAR STEEL	NONE	23	16
LBS. OF VERTICAL BAR STEEL	NONE	60	18

GENERAL NOTES

DETAILS OF CONSTRUCTION, MATERIALS AND WORKMANSHIP NOT SHOWN ON THIS DRAWINGSHALL CONFORM TO THE PERTINENT REQUIREMENTS OF THE CONTRACT.

BASES SHALL BE EXCAVATED BY USE OF A CIRCULAR AUGER.

TOP SURFACES OF CONCRETE BASES SHALL BE TROWEL FINISHED SMOOTH AND LEVEL.

CONDUIT SIZES AND LOCATIONS SHALL BE SHOWN ON THE PLANS

THE FINAL OR TERMINATING CONCRETE BASE IN A CONDUIT RUN SHALL HAVE A 6" EXIT STUB INSTALLED FOR FUTURE CABLING USE. THE EXIT STUB SHALL BE SIZED AS USED THROUGHOUT THE CONDUIT RUN AS SHOWN A THE ENTRANCE OF THE BASE.

ENDS OF CONDUIT INSTALLED BELOW GRADE FRO FUTURE USE SHALL BE CAPPED IF METALLIC OR PLUGGED IF NON-METALLIC.

MINIMUM BENDING RADIUS OF CONDUIT IS EQUAL TO 6X THE DIAMETER.

CONDUIT HEIGHT ABOVE CONCRETE BASES SHALL BE 1 INCH. ALL METALLIC CONDUIT ENDS SHALL BE REAMED AND THREADED.

ALL CONDUIT ENDS AT THE TOP OF CONCRETE BASES SHALL BE CAPPED IF METALLIC OR PLUGGED IF NON-METALLIC IMMEDIATELY AFTER PLACEMENT AND BEFORE CONCRETE IS POURED. CONDUITS IN WHICH WIRE OR CABLE IS NOT INSTALLED SHALL REMAIN CAPPED OR PLUGGED.

BELL BENDS SHALL BE INSTALLED ON ALL PVC CONDUIT EXPOSED AT THE TOP OF CONCRETE BASES BEFORE INSTALLATION.

WHEN REQUIRED TO CONNECT NON-METALLIC CONDUIT TO METALLIC CONDUIT, ONLY ADAPTER FITTINGS, U.L. LISTED FOR ELECTRICAL USE, SHALL BE USED.

IF A BASE REQUIRES A DEEP FORM BECAUSE OF LOOSE DIRT OR FILL, THE FORM SHALL BE REMOVED BEFORE BACKFILLING AROUND THE BASE. BACKFILL SHALL BE TAMPED TIGHT AGAINST THE BARE CONCRETE BASE IN LAYERS OF 1 FOOT OR LESS.

A NO. 4 AWG STRANDED COPPER EQUIPMENT GROUNDING CONDUCTOR SHALL BE EXOTHERMICALLY WELDED TO THE EQUIPMENT GROUNDING ELECTRODE (GROUND ROD) FOR TYPE 2, TYPE 5 AND TYPE 6 BASES.

THE EQUIPMENT GROUNDING CONDUCTOR SHALL BE FURNISHED AND INSTALLED TO ENTER ALL BASE TYPES THROUGH A 1 INCH CONDUIT INSTALLED FOR GROUNDING PURPOSES, LEAVING A 4 FOOT COIL OF WIRE ABOVE THE CONCRETE BASE. THE EQUIPMENT GROUNDING CONDUCTOR SHALL BE NEATLY COILED AND THE COILS TIED TOGETHER.

ANCHOR RODS SHALL BE THREADED 12" IN LENGTH ON EACH END OF THE ROD. ANCHOR RODS SHALL BE MANUFACTURED IN ACCORDANCE WITH SECTION 654.2.1 OF THE STANDARD SPECIFICATIONS.

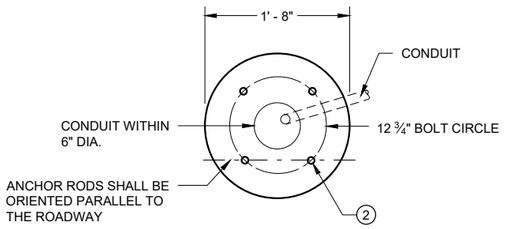
WASHERS AND LOCK WASHERS ARE REQUIRED ON ALL ANCHOR RODS.

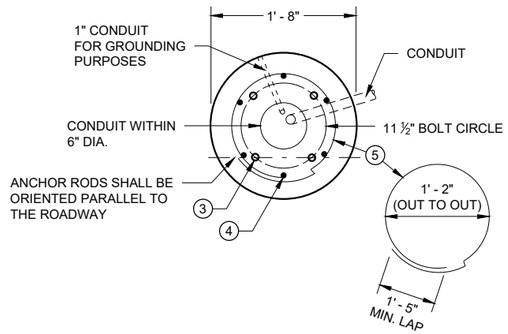
WHEN ANCHOR RODS USING THE ALTERNATE "L" BEND ARE FURNISHED, THE 4 INCH"L" BEND SHALL BE IN ADDITION TO THE SPECIFIED ANCHOR ROD BAR LENGTH. THE "L" BEND SHALL NOT BE THREADED.

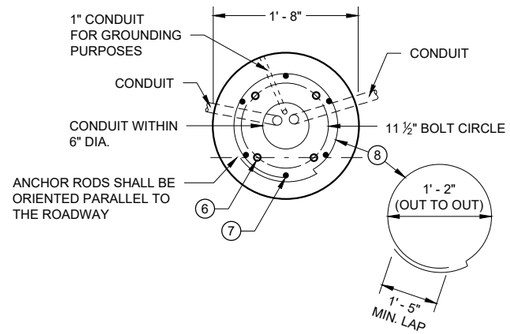
ANCHOR RODS SHALL BE INSTALLED WITH MISALIGNMENTS OF LESS THAN 1:40 FROM VERTICAL.

WELDING OF THE ANCHOR RODS TO THE CAGE IS UNACCEPTABLE. TIE WIRES SHALL BE USED.

BAR STEEL REINFORCEMENT SHALL BE COATED WITH POWDERED EPOXY RESIN IN ACCORDANCE WITH SECTION 505 OF THE STANDARD SPECIFICATIONS (LATEST EDITION).







1 THE MINIMUM DEPTH OF CONDUIT EXITING THE CONCRETE BASE AND INSTALLED BELOW THE TRAVELED WAY SHALL BE 24 INCHES. THE MINIMUM DEPTH OF CONDUIT EXITING THE CONCRETE BASE THAT IS NOT INSTALLED BELOW THE TRAVELED WAY SHALL BE 18 INCHES. THE MAXIMUM DEPTH OF ALL CONDUIT SHALL BE 36 INCHES EXCEPT WITH WRITTEN APPROVAL OF THE ENGINEER.

2 (4) 1" DIA. X 3' - 6" ANCHOR RODS.

3 (4) 1" DIA. X 5' - 0" ANCHOR RODS.

4 (6) NO. 6 X 6' - 8" BAR STEEL REINFORCEMENT.

5 (7) NO. 4 X 5' - 1" BAR STEEL REINFORCEMENT @ 1' - 0" C - C.

6 (4) 1" DIA. X 3' - 6" ANCHOR RODS.

7 (6) NO. 4 X 4' - 8" BAR STEEL REINFORCEMENT.

8 (5) NO. 4 X 5' - 1" BAR STELL REINFORCEMENT @ 1' - 0" C -C.

9 EXOTHERMIC CONNECTION TO EUIPMENT GROUNDING CONDUCTOR

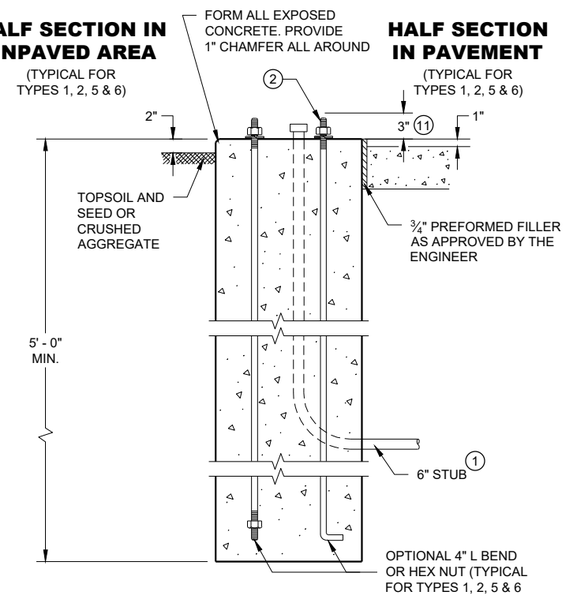
10 ⅝" DIA. X 8' -0" COPPERCLAD EQUIPMENT GROUNDING ELECTRODE REQUIRED

11 ANY ANCHOR ROD PROJECTION SHORTER THAN 2 ¾" OR LONGER THAN 3 ¼" SHALL REQUIRE THE BASE TO BE REMOVED AND REPLACED AT THE CONTRACTORS EXPENSE.

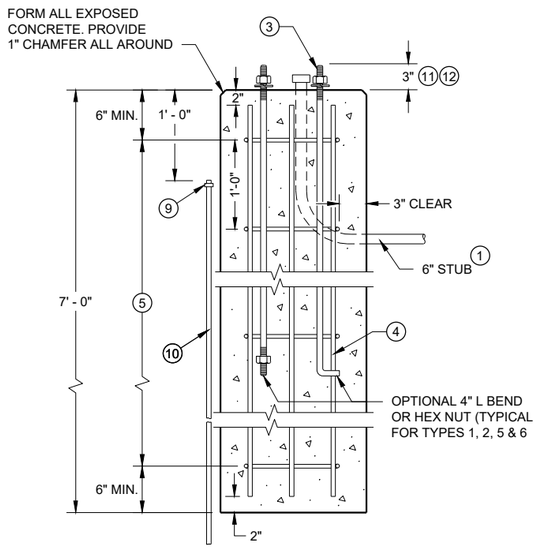
12 FOR NON - BREAKAWAY INSTALLATIONS, 4 ½" ± ANCHOR ROD PROJECTION WITH THE USE OF LEVELING NUTS. RODENT SCREEN REQUIRED.

HALF SECTION IN UNPAVED AREA
(TYPICAL FOR TYPES 1, 2, 5 & 6)

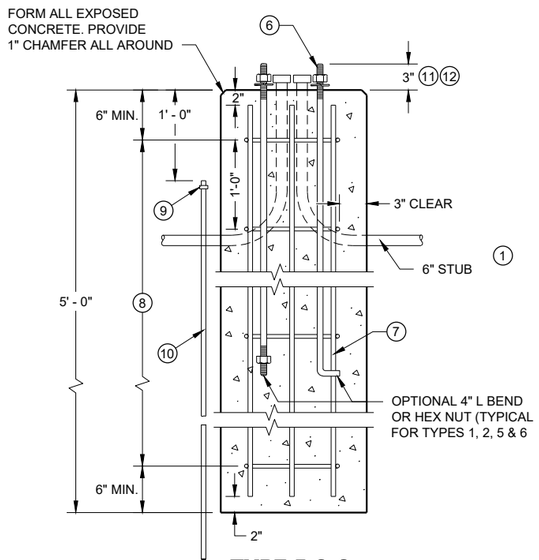
HALF SECTION IN PAVEMENT
(TYPICAL FOR TYPES 1, 2, 5 & 6)



TYPE 1



TYPE 2



TYPE 5 & 6

CONCRETE BASES

CONCRETE BASES
TYPES 1, 2, 5, & 6

STATE OF WISCONSIN
DEPARTMENT OF TRANSPORTATION

APPROVED
May 2019
DATE
/S/ Ahmet Demirbilek
STATE ELECTRICAL ENGI

FHWA

GENERAL NOTES

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

FOUR (4) BOLTS SHALL BE FURNISHED WITH EACH TRANSFORMER BASE. BOLTS SHALL BE 1" DIAMETER, 4" IN LENGTH, WITH WASHERS, LOCK WASHERS AND NUTS. BOLTS, NUTS AND WASHERS SHALL BE MANUFACTURED IN ACCORDANCE WITH SECTION 641.2.2 OF THE STANDARD SPECIFICATIONS.

LEVELING SHIMS, IF NEEDED, SHALL BE DESIGNED FOR THE PURPOSE AND USED UNDER CAST BASES WHEN PLUMBING POLES OR STANDARDS DURING INSTALLATION. THE USE OF WASHERS IN LIEU OF PROPER LEVELING SHIMS IS NOT ACCEPTABLE.

SHIM LENGTH SHALL BE LONG ENOUGH TO COMPLETELY COVER THE AREA UNDER THE LENGTH AND WIDTH OF THE BASE MOUNTING FLANGE.

DOUBLE NUTTING IS NOT ACCEPTABLE FOR LEVELING OR MOUNTING PURPOSES.

A NEMA APPROVED, U.L. LISTED, COPPER WITH BRASS OR STAINLESS STEEL SET SCREW, DIRECT BURY RATED, MECHANICAL CONNECTOR (LUG), SIZED TO ACCEPT AWG. #10 TO #4 COPPER STRANDED WIRE SHALL BE FURNISHED AND INSTALLED IN THE PEDESTAL AND TRANSFORMER BASES.

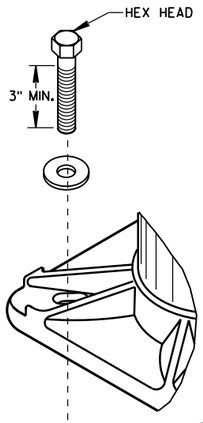
THE MECHANICAL CONNECTOR SHALL BE INSTALLED USING A 1/4" - 20 (TPI) STAINLESS STEEL HEX HEAD BOLT OF SUFFICIENT LENGTH TO FIRMLY ATTACH THE LUG TO THE BASE.

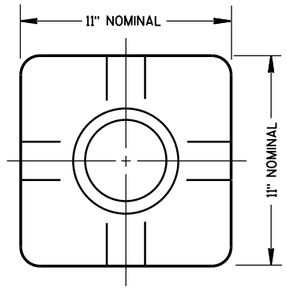
SHOULD THE MANNER OF ATTACHMENT OF THE LUG REQUIRE WASHERS, HEX NUTS, LOCK WASHER - THEY SHALL BE STAINLESS STEEL AS IS THE BOLT. THE MANNER OF ATTACHMENT SHALL NOT BLOCK ACCESSIBILITY TO WIRE PLACEMENT IN THE CONNECTOR.

PEDESTAL BASE COLLAR THREADING SHALL BE TAPERED AND IN ACCORDANCE WITH NATIONAL PIPE THREADING DIMENSIONS.

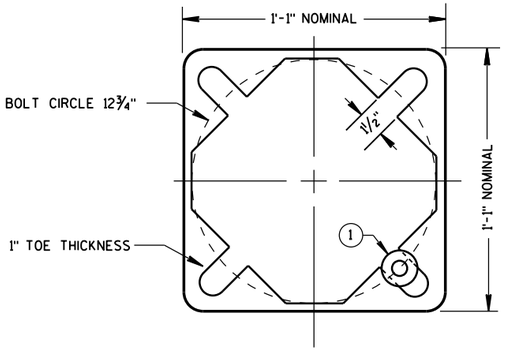
BASE COLLAR THREADING SHALL EXTEND INTO THE BASE COLLAR WITH SUFFICIENT DEPTH TO ACCEPT THE INSTALLATION OF TRAFFIC SIGNAL STANDARDS TO A DEPTH OF 1 1/2", THEN TIGHTENING TO A POINT OF BEING IMMOVABLE.

THE ACCESS DOOR SHALL BE OF THE SAME MATERIAL AS THE BASE.

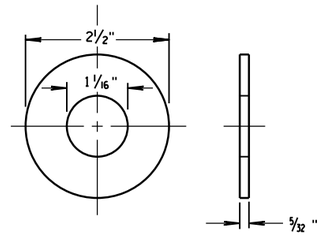




TOP VIEW
(PEDESTAL BASE)

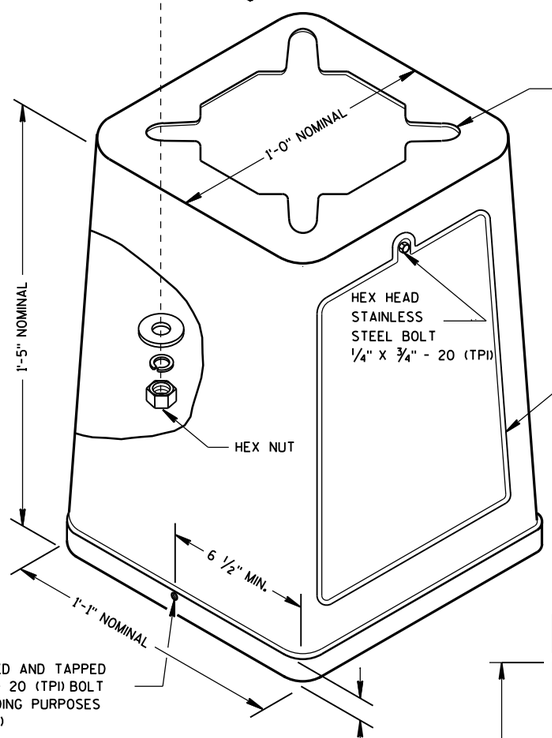


BOTTOM VIEW
(PEDESTAL BASE)

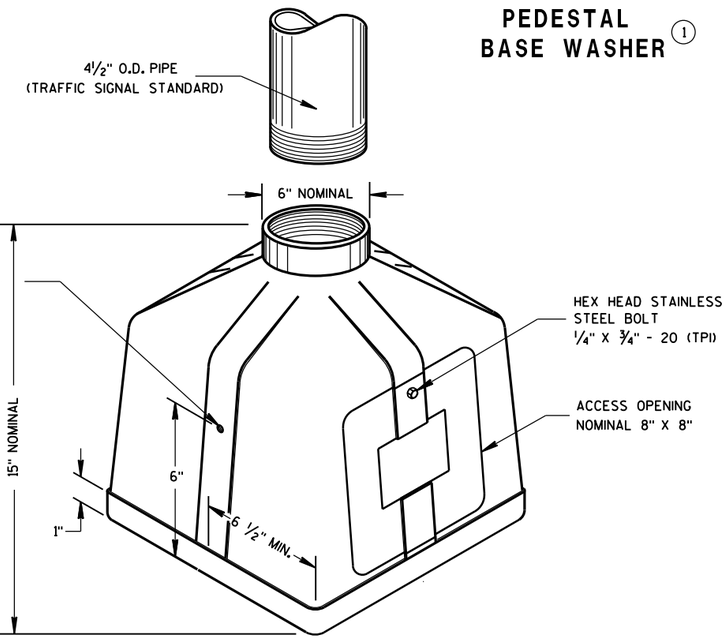


ZINC COATED STEEL WASHER
TO BE PROVIDED BY THE CONTRACTOR

PEDESTAL BASE WASHER (1)

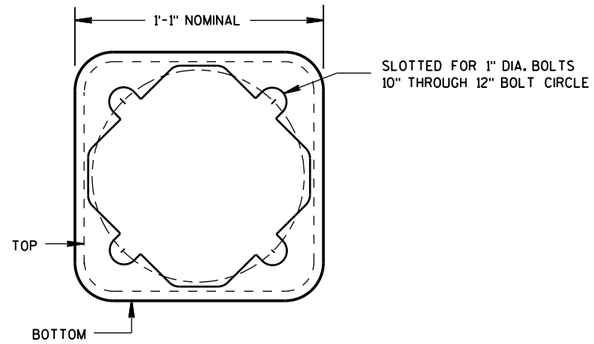


ISOMETRIC VIEW

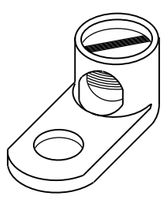


ISOMETRIC VIEW

PEDESTAL BASE



BOTTOM VIEW
(TRANSFORMER BASE)

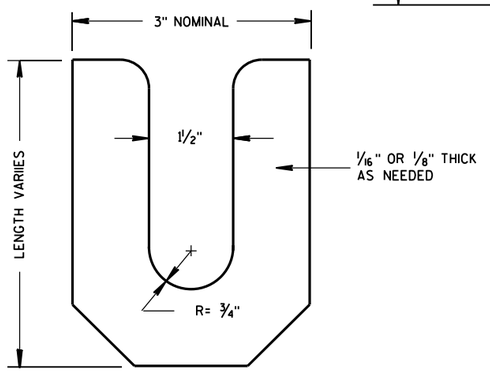


TYPICAL MECHANICAL CONNECTOR LUG

TO BE FURNISHED WITH EACH BASE

TRANSFORMER BASE

INTENDED FOR USE WITH TYPE 2, 3, 4, 5 & 6 POLES



LEVELING SHIM

TRANSFORMER/PEDESTAL BASES

STATE OF WISCONSIN
DEPARTMENT OF TRANSPORTATION

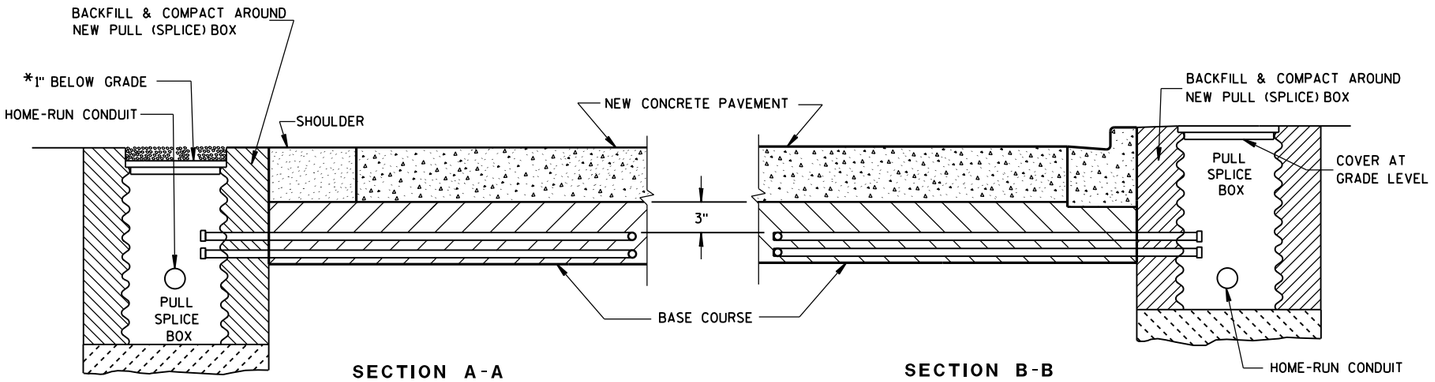
APPROVED
Sept. 2014 — DATE
/S/ Ahmet Demirbilek — STATE ELECTRICAL
FHWA

6

S.D.D. 9 C 3-4

6

S.D.D. 9 C 3-4



SECTION A-A
NO CURB & GUTTER

SECTION B-B
CURB & GUTTER

*RECESS PULL (SPLICE) BOX SO THAT THE COVER IS 3" BELOW GRADE IN SHOULDER AREAS OF CRUSHED AGGREGATE. BACKFILL OVER COVER WITH THE CRUSHED AGGREGATE TO BRING THE AREA TO GRADE LEVEL.

LOOP DETECTOR INSTALLATION DETAIL

GENERAL NOTES

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

LOOP SIZE, CONFIGURATION LOCATION, NUMBER OF TURNS OF WIRE AND ASSOCIATED SIGNAL PHASE SHALL BE AS SHOWN ON THE PLANS.

PITCH LEAD OUT CONDUIT TO DRAIN TO ROADSIDE PULL (SPLICE) BOX.

SPLICES SHALL BE INSTALLED BY USING CAST IN PLACE SPLICE KITS LISTED ON THE DEPARTMENTS APPROVED PRODUCTS LIST OR AN ENGINEER APPROVED EQUAL. NON-INSULATED BUTT SPLICES TO FIT #12 AWG STRANDED WIRE SHALL BE USED. SPLICES SHALL BE SOLDERED AND INSULATED FROM EACH OTHER AS PER INSTRUCTIONS INCLUDED IN THE SPLICE KIT.

MEASURE GROUND RESISTANCE USING A MEGGER. REPLACE LOOP WIRE NOT ATTAINING A READING OF INFINITY TO GROUND.

AFTER SPLICING THE LOOP WIRE TO THE LOOP LEAD-IN CABLE, THE CONTRACTOR SHALL MEASURE INDUCTANCE, GROUND RESISTANCE AND WIRE RESISTANCE AT THE CABINET END OF THE LEAD-IN CABLE AND FURNISH A COPY OF THE READINGS TO THE PROJECT ENGINEER FOR EVALUATION.

LOOP DETECTOR LEADS SHALL BE IDENTIFIED WITH THEIR ASSOCIATED LOOP BY USE OF WATERPROOF TAGS AT BOTH ENDS OF THE CABLE. A LISTING OF THE CABLE IDENTIFICATION PER INDIVIDUAL LOOP LEAD-IN SHALL BE PLACED IN THE CABINET.

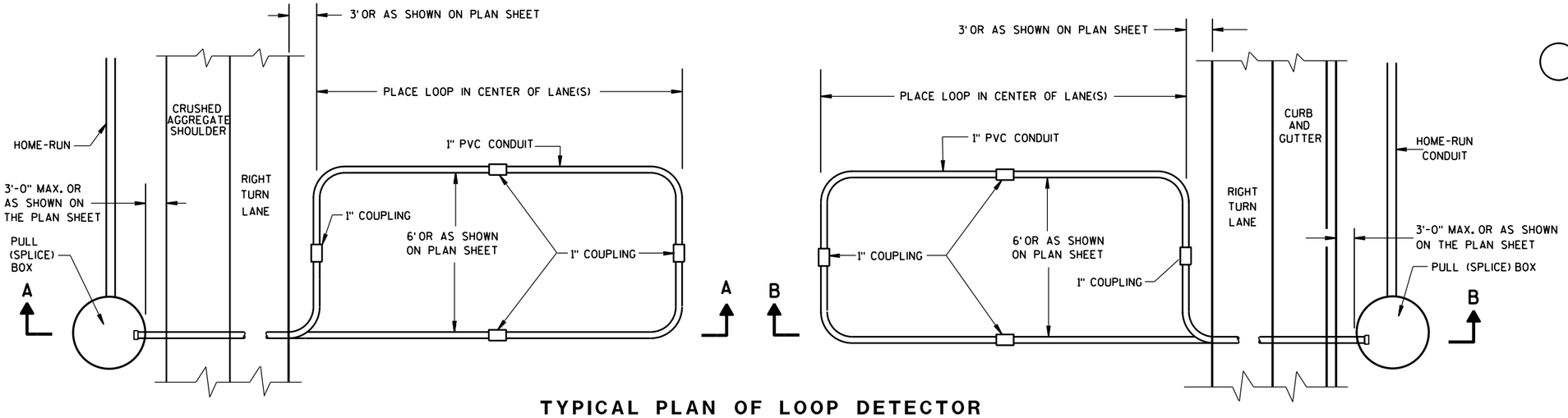
THE #12 AWG. LOOP WIRE IN THE PULL (SPLICE) BOX SHALL BE HAND TWISTED AT LEAST 3 TWISTS PER FOOT BEFORE BEING SPLICED TO THE LOOP LEAD-IN CABLE.

SPLICES OF LOOP WIRE TO LEAD-IN CABLE SHALL BE MADE ONLY IN PULL (SPLICE) BOXES AT THE SIDE OF THE ROAD.

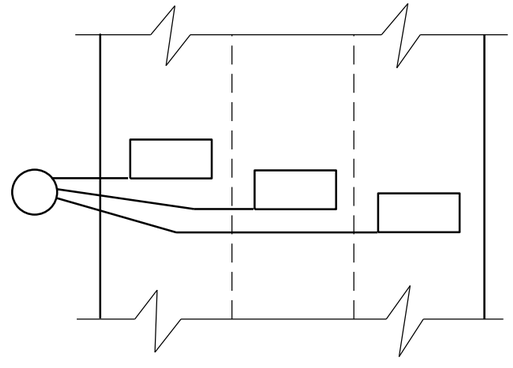
THE #12 AWG LOOP WIRE SHALL BE INSTALLED FROM THE ROADSIDE PULL (SPLICE) BOX, THROUGH THE LOOP CONDUIT, BACK TO THE ROADSIDE PULL (SPLICE) BOX, AND BE INSTALLED IN ONE, NON-SPLICED CONTINUOUS LENGTH.

PROTECTION OF THE CONDUITS IN THE BASE COURSE SHALL BE REQUIRED AFTER INSTALLATION AND BEFORE NEW PAVEMENT IS INSTALLED.

SHOULD INSTALLATION REPAIR BE REQUIRED, IT SHALL BE DONE UNDER THE DIRECTION OF THE PROJECT ENGINEER.



TYPICAL PLAN OF LOOP DETECTOR WITH 24" PULL (SPLICE) BOX



MULTI-LANE INSTALLATION

LOOP DETECTOR INSTALLED IN BASE COURSE WITH PULL (SPLICE) BOX OFF ROADWAY (OPTION 2)

STATE OF WISCONSIN
DEPARTMENT OF TRANSPORTATION

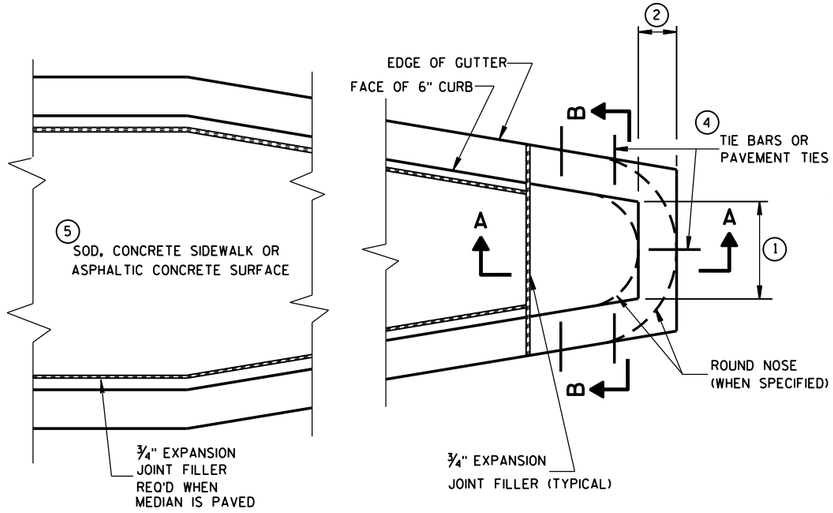
APPROVED
Sept. 2014 — DATE
/S/ Ahmet Demirbilek — STATE ELECTRICAL
FHWA

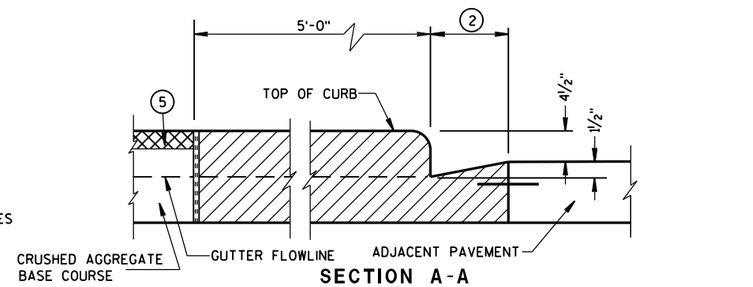
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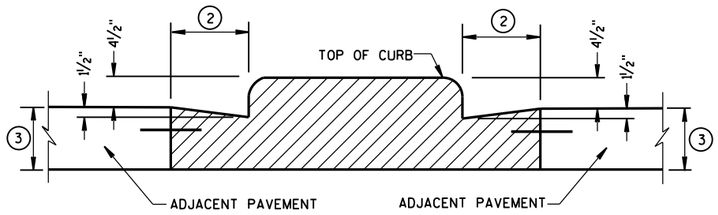
S.D.D. 9 F 15-4b

6

S.D.D. 9 F 15-4b







CONCRETE MEDIAN BLUNT NOSE DETAIL

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.

(1) SEE PLAN FOR MEDIAN NOSE WIDTH AND RADIUS (FOR ROUND NOSE ALTERNATE).

(2) WIDTH OF GUTTER TO MATCH EXISTING ADJACENT GUTTER OR AS SPECIFIED ELSEWHERE IN THE PLAN.

(3) DEPTH EQUAL TO ADJACENT PAVEMENT. ADJACENT PAVEMENT STRUCTURE DETAILS ARE SHOWN ON THE PLAN. TYPICAL OPTIONS ARE:

(1) NEW OR EXISTING CONCRETE PAVEMENT.

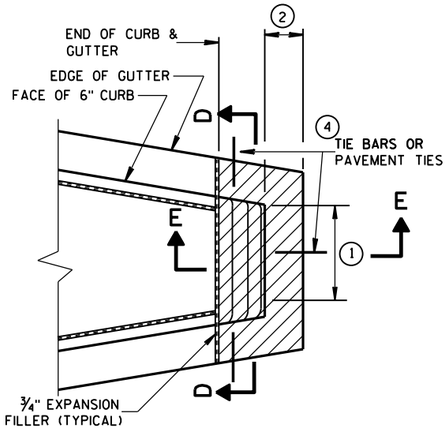
(2) ASPHALTIC CONCRETE PAVEMENT OVER NEW OR EXISTING CONCRETE BASE COURSE.

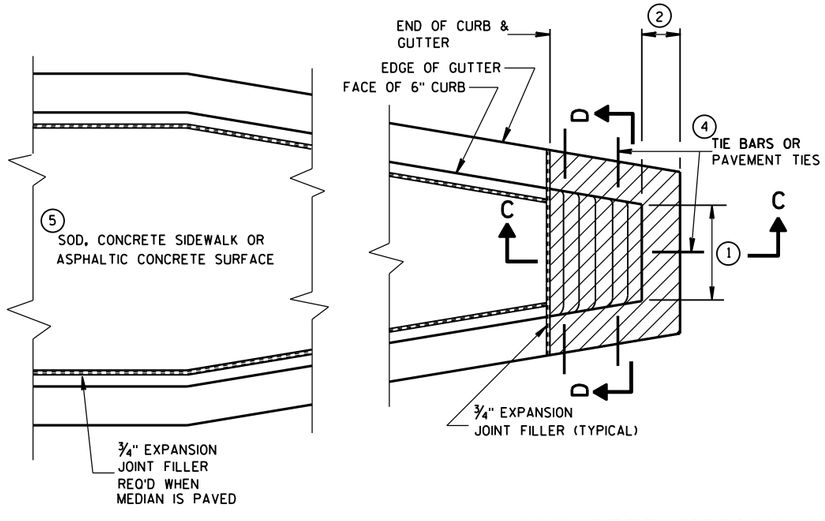
(3) ASPHALTIC CONCRETE PAVEMENT OVER CRUSHED AGGREGATE BASE COURSE.

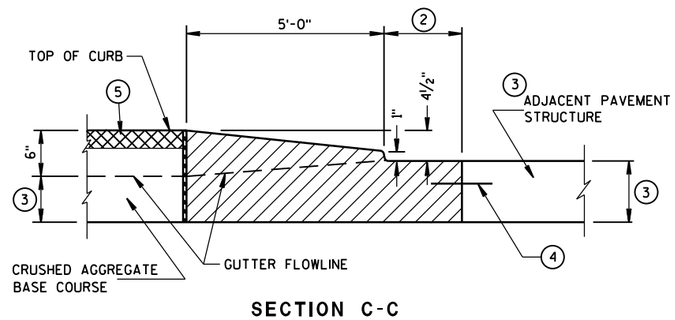
(4) TIE BARS OR PAVEMENT TIES REQUIRED IN NEW CONCRETE PAVEMENT OR CONCRETE BASE COURSE. TIE BARS SHALL BE NO. 4 X 2'-0" SPACED AT 2'-0" C-C.

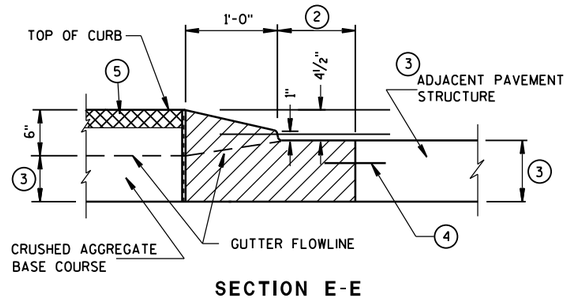
PAVEMENT TIES REQUIRED IN EXISTING CONCRETE BASE COURSE. PAVEMENT TIES SHALL BE NO. 6 X 1'-0" SPACED AT 3'-0" C-C INSTALLED ON A HORIZONTAL SKEW OF 6:1. THE DIRECTION OF SKEW SHALL ALTERNATE AFTER EVERY ONE OR TWO BARS.

(5) SURFACE TYPE AND DETAILS ARE SHOWN ELSEWHERE IN THE PLAN.



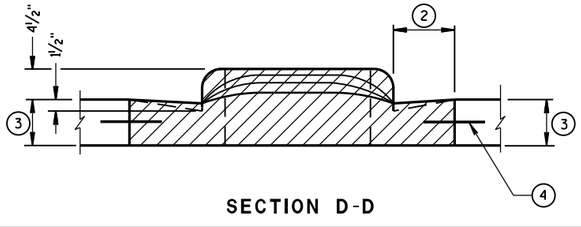






CONCRETE MEDIAN SLOPED NOSE TYPE 1

CONCRETE MEDIAN SLOPED NOSE TYPE 2



CONCRETE MEDIAN NOSE

STATE OF WISCONSIN
DEPARTMENT OF TRANSPORTATION

APPROVED
6/8/2006
DATE
/S/ Jerry H. Zogg
ROADWAY STANDARDS D ENGINEER
FHWA

6

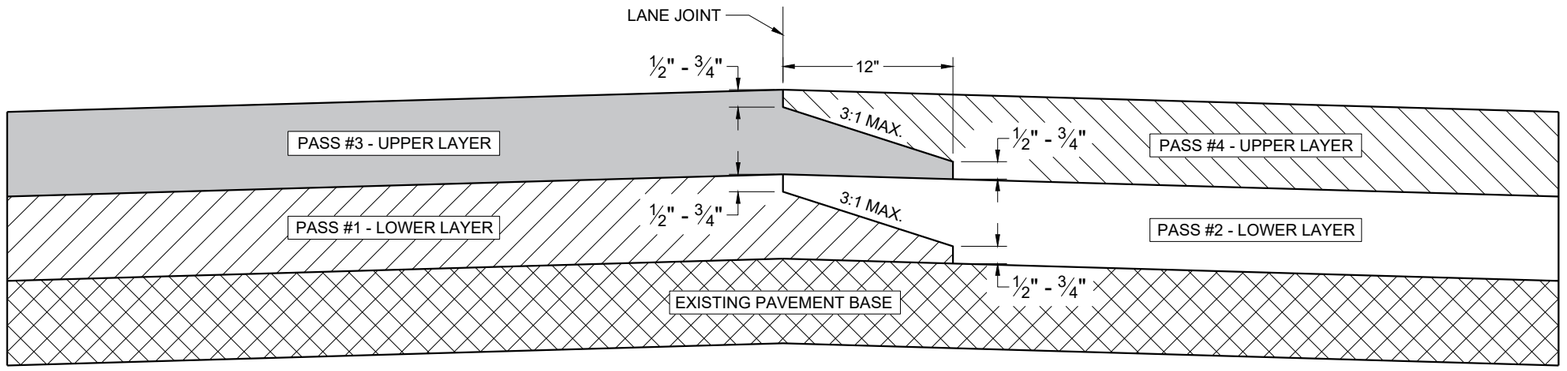
S.D.D. 11 B 2-2

6

S.D.D. 11 B 2-2

GENERAL NOTES

CONFORM TO STANDARD SPECIFICATION 450.3.2.8



TYPICAL PAVEMENT CROSS SECTION
OF NOTCHED WEDGE LONGITUDINAL JOINTS

6

6

SDD 13C19 - 01

SDD 13C19 - 01

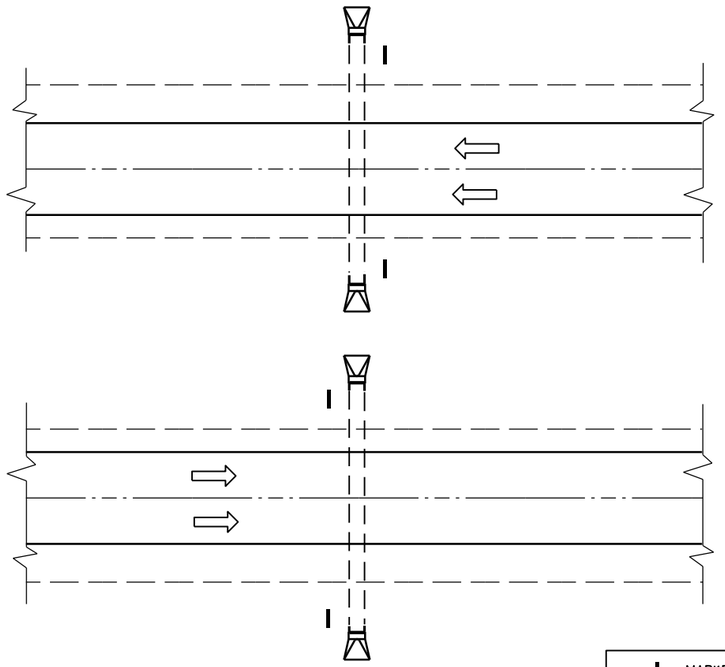
HMA LONGITUDINAL JOINTS

STATE OF WISCONSIN
DEPARTMENT OF TRANSPORTATION

APPROVED
May 2019
DATE

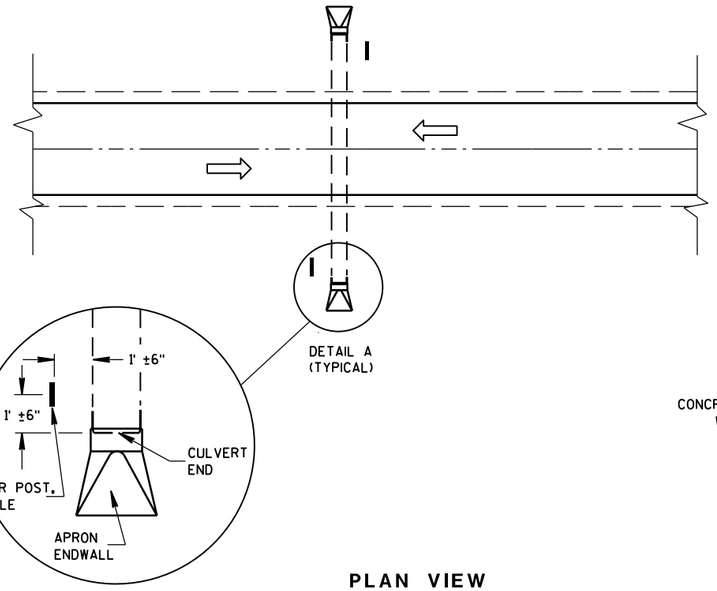
/S/ Steven Hefel
HMA PAVEMENT ENGIN

FHWA



PLAN VIEW

DIVIDED HIGHWAY



DETAIL A
(TYPICAL)

PLAN VIEW

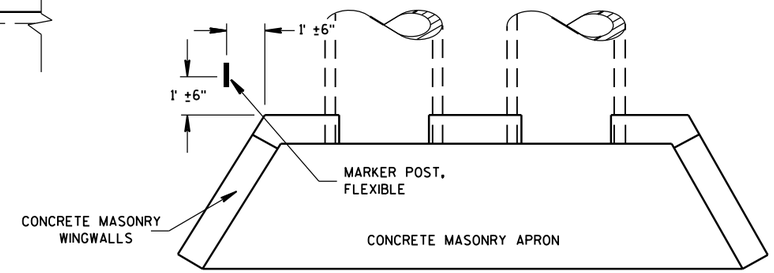
UNDIVIDED HIGHWAY

MARKER POST, FLEXIBLE

DIRECTION OF TRAFFIC FLOW

GENERAL NOTES

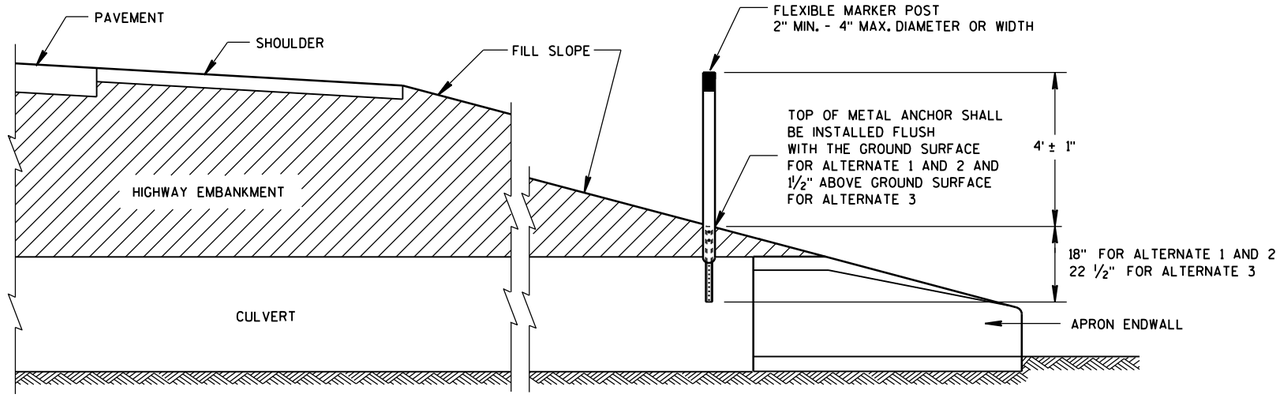
DETAILS OF CONSTRUCTION, MATERIALS AND WORKMANSHIP NOT SHOWN ON THIS DRAWING SHALL CONFORM TO THE PERTINENT REQUIREMENTS OF THE STANDARD SPECIFICATIONS AND THE APPLICABLE SPECIAL PROVISIONS.



PLAN VIEW

CONCRETE MASONRY ENDWALLS FOR CULVERT PIPE AND PIPE ARCH

FLEXIBLE MARKER POST LOCATION



CROSS SECTION

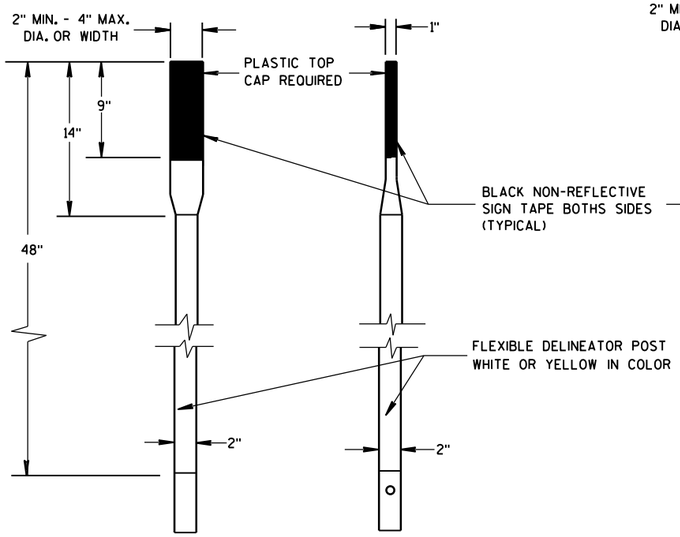
FLEXIBLE MARKER POST

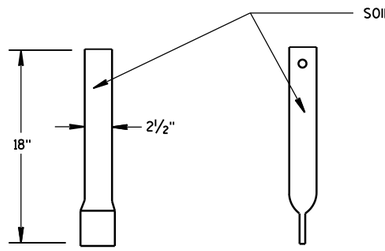
FLEXIBLE MARKER POST
FOR CULVERT END

STATE OF WISCONSIN
DEPARTMENT OF TRANSPOI

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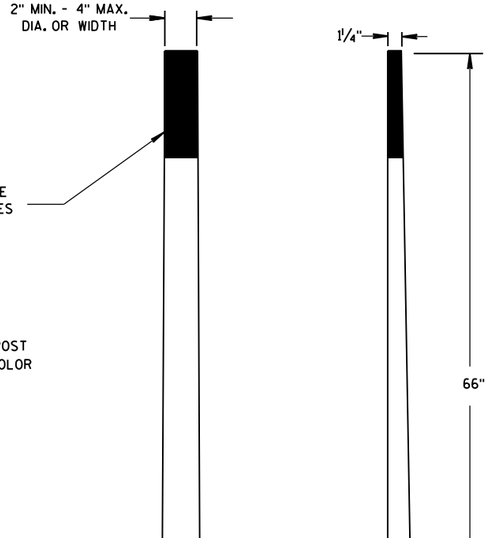
S.D.D. 15 A 3-2a





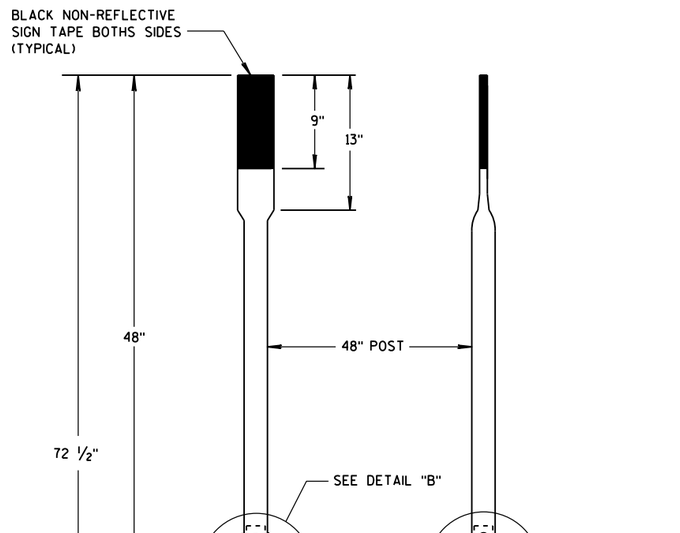
FRONT VIEW SIDE VIEW

ALTERNATE 1



FRONT VIEW SIDE VIEW

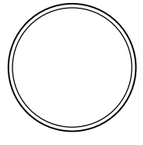
ALTERNATE 2



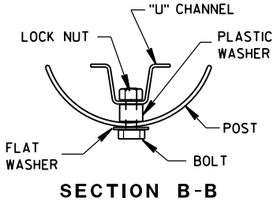
FRONT VIEW SIDE VIEW

ALTERNATE 3

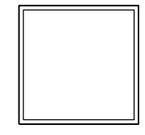
FLEXIBLE MARKER POSTS



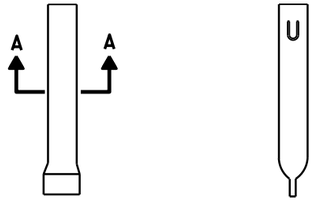
SECTION A-A



SECTION B-B

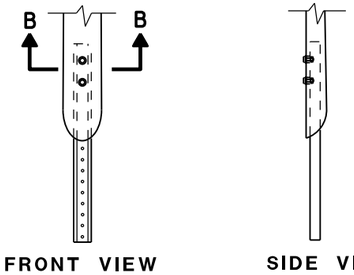


SECTION C-C



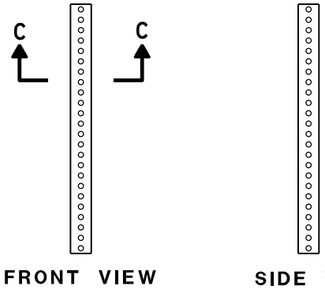
FRONT VIEW SIDE VIEW

ALTERNATE 1



FRONT VIEW SIDE VIEW

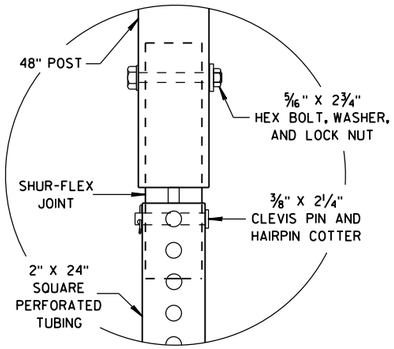
ALTERNATE 2



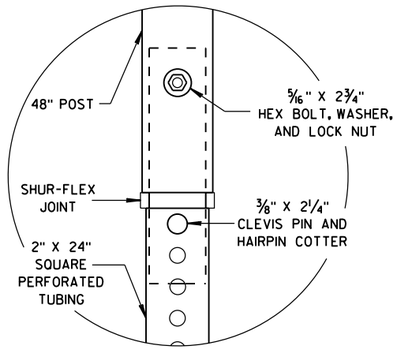
FRONT VIEW SIDE VIEW

ALTERNATE 3

FLEXIBLE MARKER POST ANCHORS



DETAIL B



DETAIL C

FLEXIBLE MARKER POST
FOR CULVERT END

STATE OF WISCONSIN
DEPARTMENT OF TRANSPORTATION

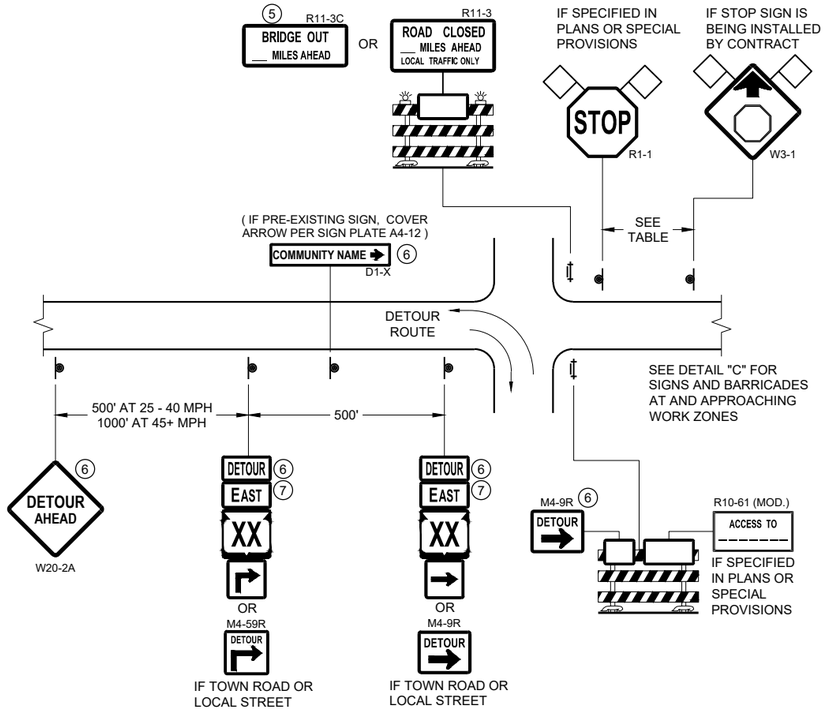
APPROVED
10/1/2012 — DATE
/S/ Travis Feltes — STATE TRAFFIC ENGINEER
FHWA

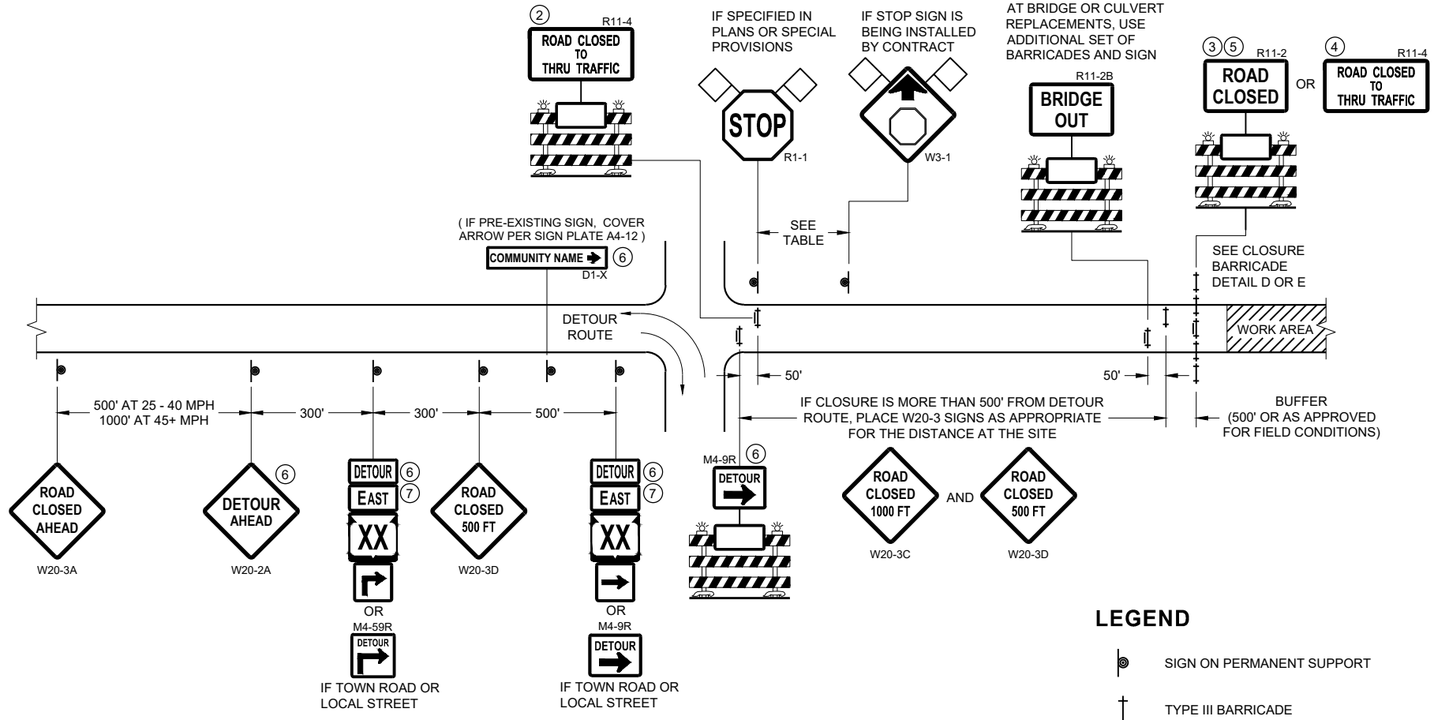
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S.D.D. 15 A 3-2b

6

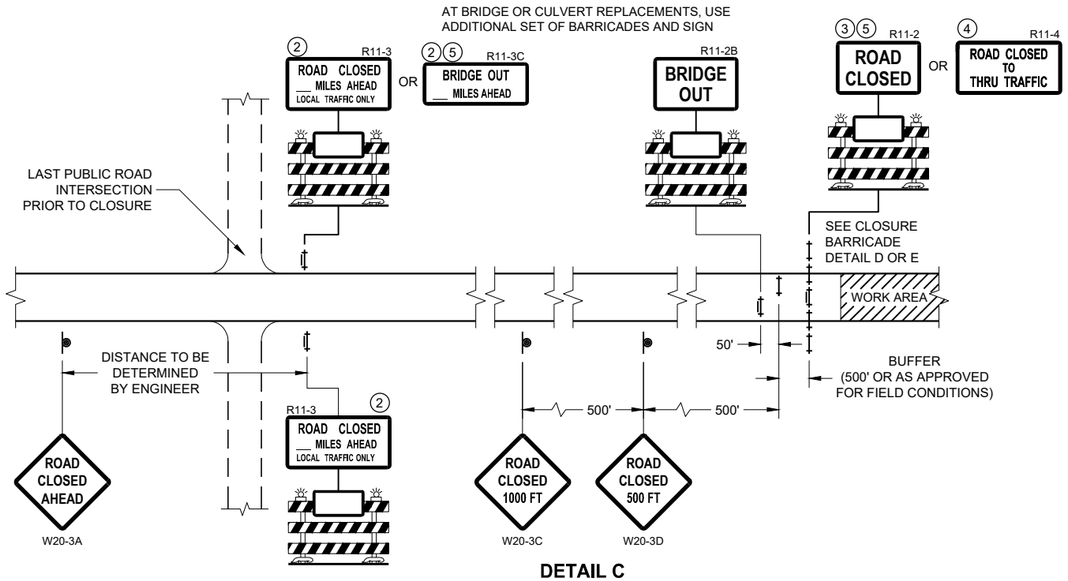
S.D.D. 15 A 3-2b





DETAIL A
MAINLINE CLOSURE WITH POSTED DETOUR
WORK ZONE GREATER THAN OR EQUAL TO ½ MILE FROM DETOUR ROUTE (1000 FEET IF URBAN)

DETAIL B
MAINLINE CLOSURE WITH POSTED DETOUR
WORK ZONE LESS THAN ½ MILE FROM DETOUR ROUTE (1000 FEET IF URBAN)



DETAIL C
MAINLINE CLOSURE, NO POSTED DETOUR

SPEED LIMIT (MPH)	"STOP AHEAD" ADVANCE WARNING DISTANCE (FT)
25	200
30	200
35	350
40	350
45	500
50	550
55	750

SEE SDD 15C2-SHEET "b"
FOR GENERAL NOTES
AND FOOTNOTES ① THROUGH ⑦

LEGEND

- SIGN ON PERMANENT SUPPORT
- TYPE III BARRICADE
- TYPE III BARRICADE WITH ATTACHED SIGN
- TYPE "A" WARNING LIGHT (FLASHING)
- WORK AREA
- FLAGS, 16" X 16" MIN. (ORANGE)
- DETOUR — M4 - 8
- EAST — M3 - X
- XX — M1 - 4 OR XX — M1 - 6 OR COUNTY X — M1 - 5A
- M05 - 1 OR M06 - 1

BARRICADES AND SIGNS FOR MAINLINE CLOSURES

STATE OF WISCONSIN
DEPARTMENT OF TRANSPORTATION

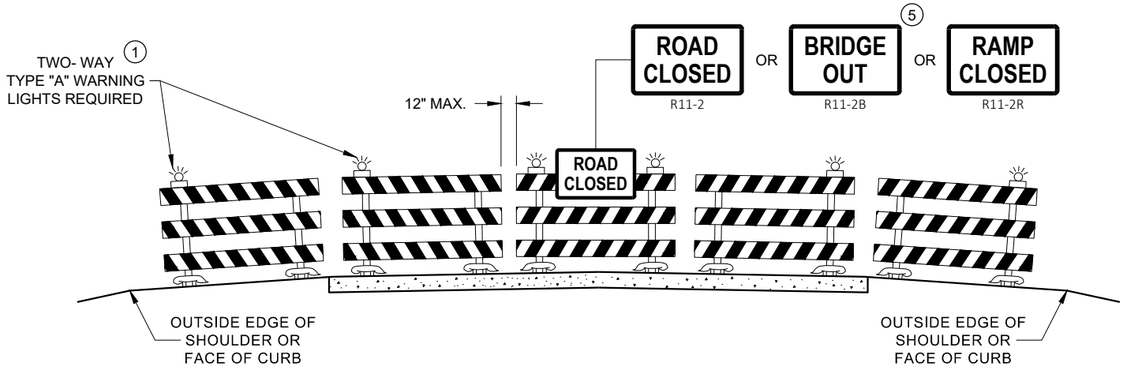
APPROVED
November 2018
DATE
/S/ Andrew Heidtke
WORK ZONE ENGINEER

FHWA

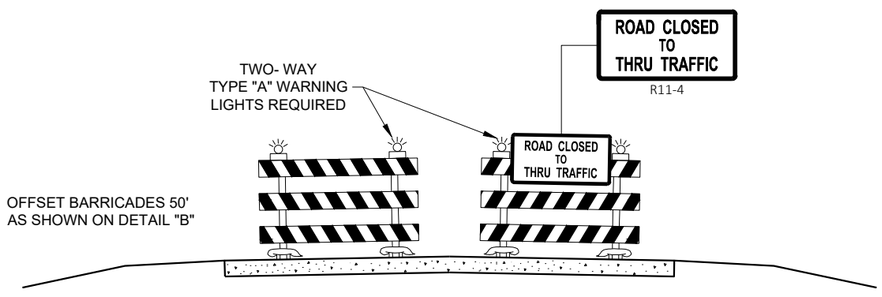
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SDD 15C02 - 07a

SDD 15C02 - 07a



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.

(2) 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.

BARRICADES AND SIGNS FOR VARIOUS CLOSURES

STATE OF WISCONSIN
DEPARTMENT OF TRANSPORTATION

APPROVED
November 2018
DATE
/S/ Andrew Heidtke
WORK ZONE ENGINEE
FHWA

6

SDD 15C02 - 07b

6

SDD 15C02 - 07b

THIS DRAWING PROVIDES GENERAL GUIDANCE ON TYPICAL DETOUR SIGN LAYOUT AND SPACING. SEE PROJECT DETOUR SIGNING SHEETS FOR SPECIFIC DETAILS FOR EACH PROJECT.

LEGEND

- SIGN ON PERMANENT SUPPORT
- WORK AREA
- DETOUR — M4 - 8
- EAST — M3 - X
- XX — M1 - 4 OR XX — M1 - 6 OR COUNTY X — M1 - 5A
- M05 - 1 OR M06 - 1 OR M06 - 1

GENERAL NOTES

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

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. SEE SPECIFIC PROJECT DETOUR SIGNING DETAIL SHEETS. MODIFY EXISTING SIGNS WHERE POSSIBLE.

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

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.

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

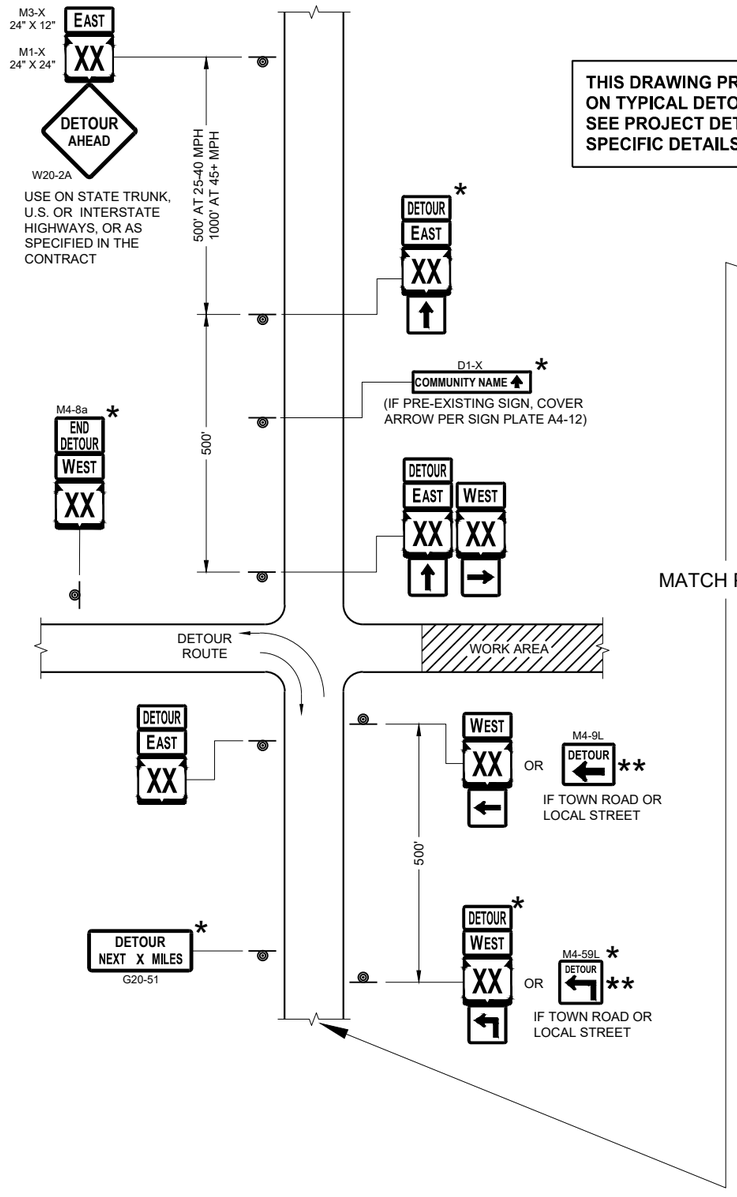
"MO" SIGNS ARE THE SAME AS "M" SIGNS EXCEPT THE BACKGROUND IS ORANGE.

SIGN SIZES SHALL BE AS FOLLOWS:

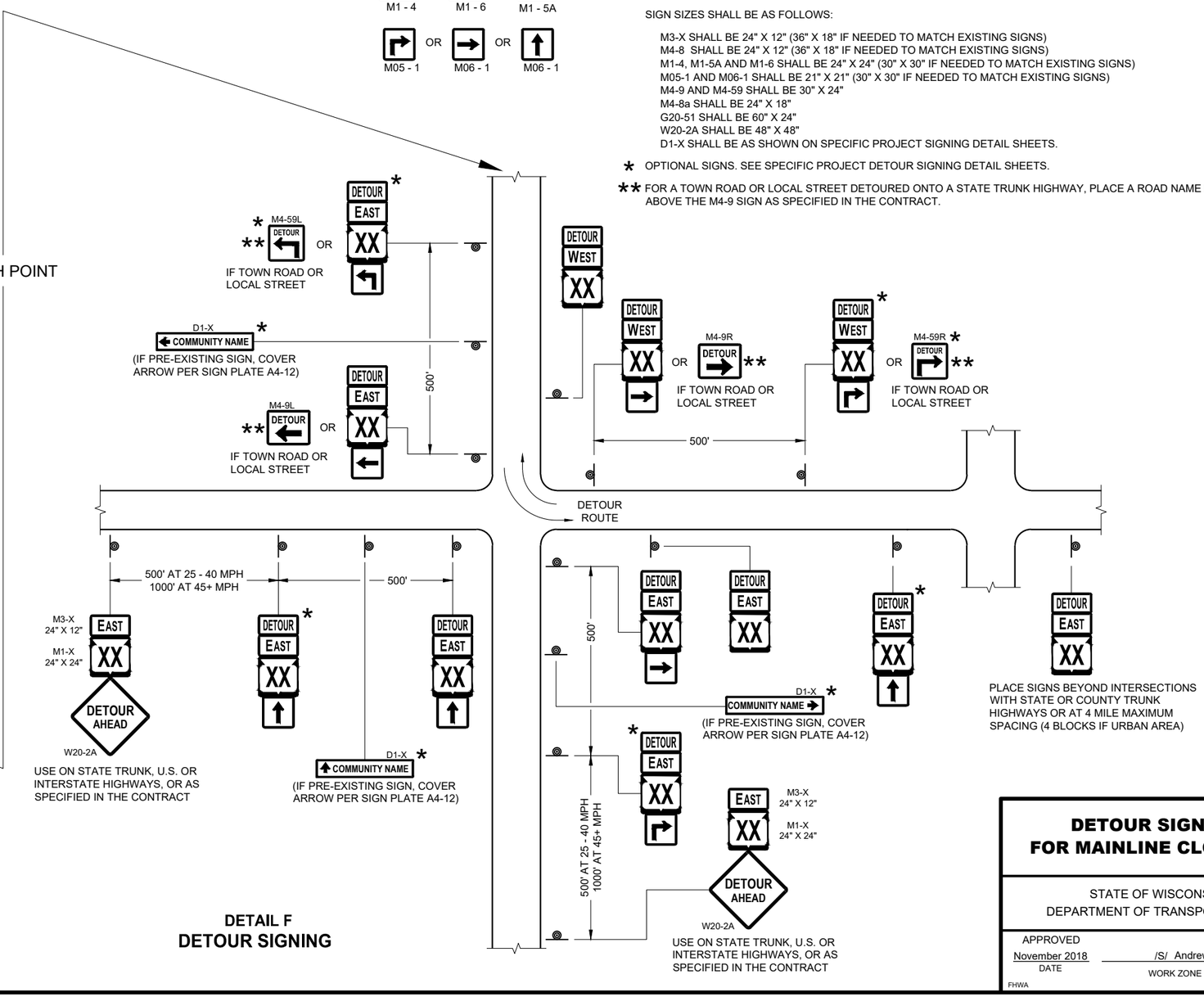
- M3-X SHALL BE 24" X 12" (36" X 18" IF NEEDED TO MATCH EXISTING SIGNS)
- M4-8 SHALL BE 24" X 12" (36" X 18" IF NEEDED TO MATCH EXISTING SIGNS)
- M1-4, M1-5A AND M1-6 SHALL BE 24" X 24" (30" X 30" IF NEEDED TO MATCH EXISTING SIGNS)
- M05-1 AND M06-1 SHALL BE 21" X 21" (30" X 30" IF NEEDED TO MATCH EXISTING SIGNS)
- M4-9 AND M4-59 SHALL BE 30" X 24"
- M4-8a SHALL BE 24" X 18"
- G20-51 SHALL BE 60" X 24"
- W20-2A SHALL BE 48" X 48"
- D1-X SHALL BE AS SHOWN ON SPECIFIC PROJECT SIGNING DETAIL SHEETS.

* OPTIONAL SIGNS. SEE SPECIFIC PROJECT DETOUR SIGNING DETAIL SHEETS.

** FOR A TOWN ROAD OR LOCAL STREET DETOURED ONTO A STATE TRUNK HIGHWAY, PLACE A ROAD NAME PLAQUE ABOVE THE M4-9 SIGN AS SPECIFIED IN THE CONTRACT.



SEE SPECIFIC PROJECT DETOUR SIGNING DETAIL SHEETS AND DETAIL A OR B ON SDD SHEET 15C02 - SHEET "a"



DETAIL F
DETOUR SIGNING

DETOUR SIGNING FOR MAINLINE CLOSURES

STATE OF WISCONSIN
DEPARTMENT OF TRANSPORTATION

APPROVED
November 2018
DATE

/S/ Andrew Heidtke
WORK ZONE ENGINEER

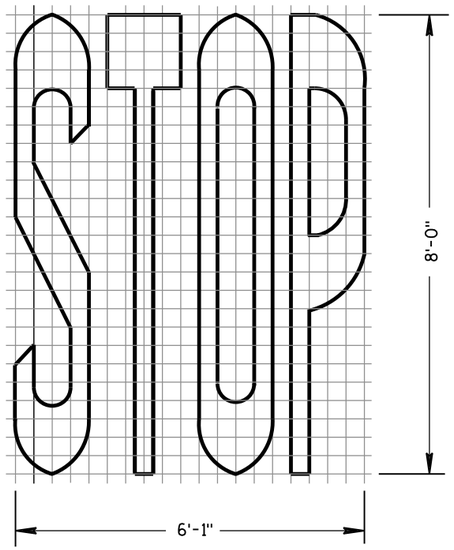
FHWA

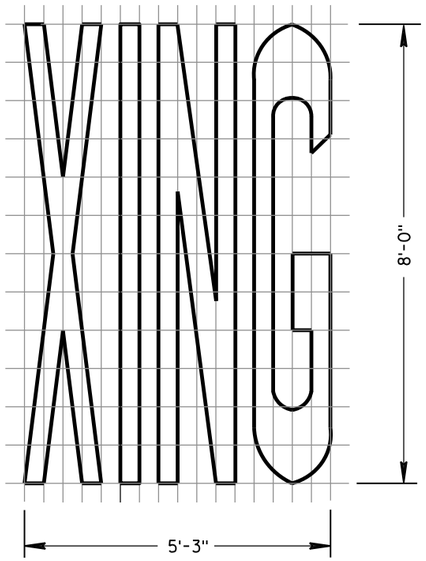
SDD 15C02 - 07c

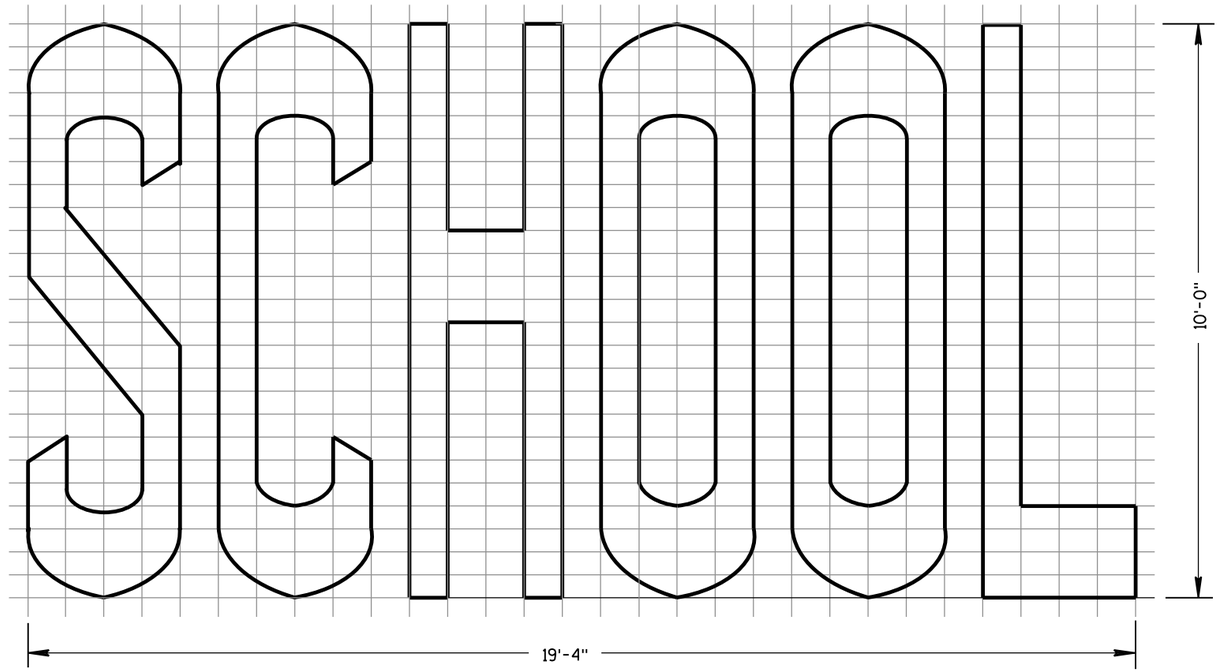
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GENERAL NOTES

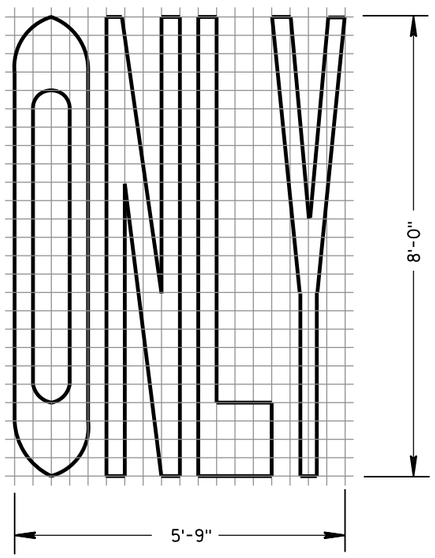
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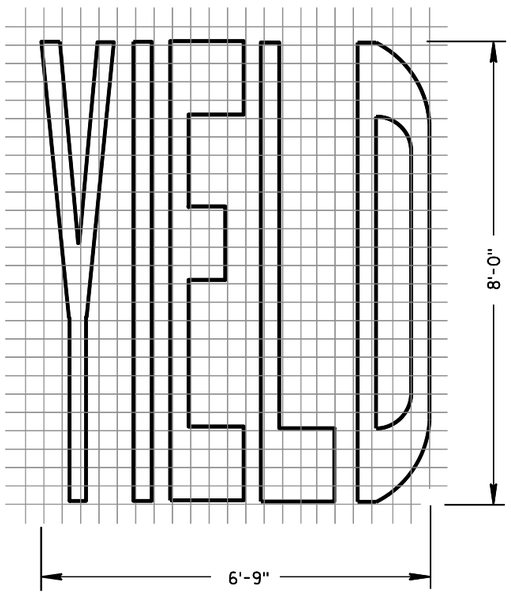


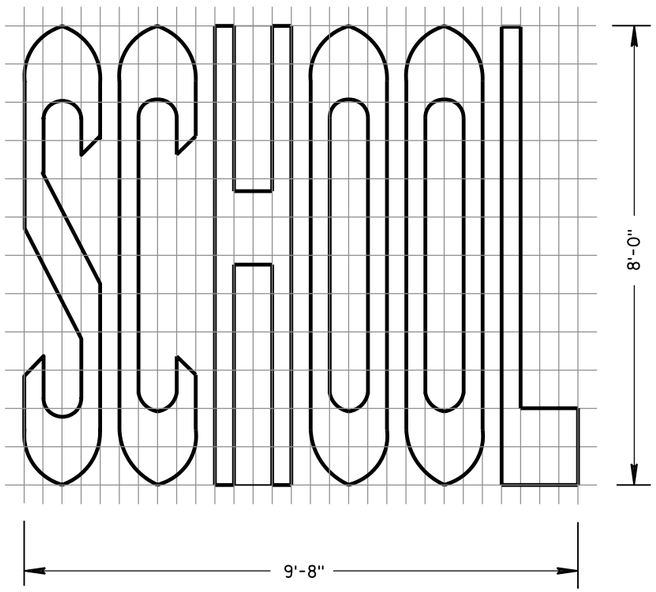




TWO-LANE







SINGLE-LANE

PAVEMENT MARKING WORDS

STATE OF WISCONSIN
DEPARTMENT OF TRANSPORTATION

APPROVED

June 2017 — DATE

/S/ Matthew R. Rauch — STATE SIGNING AND MARK

EER

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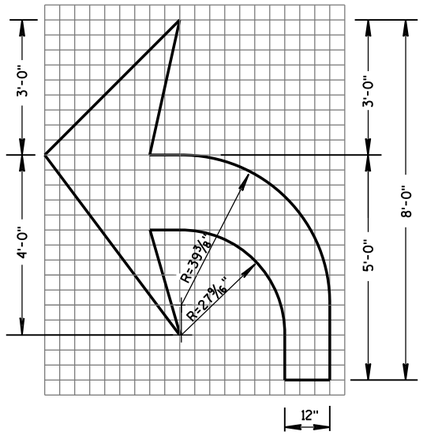
S.D.D. 15 C 7-14b

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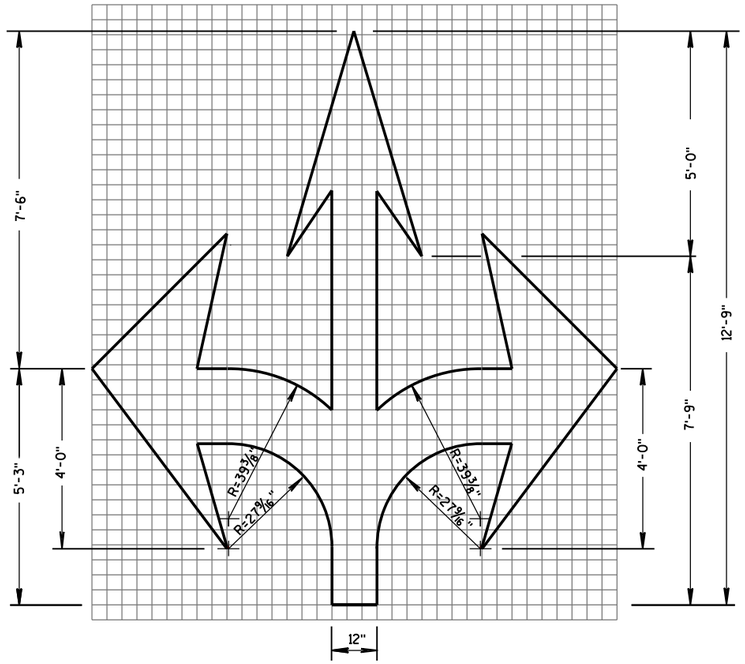
S.D.D. 15 C 7-14b

GENERAL NOTES

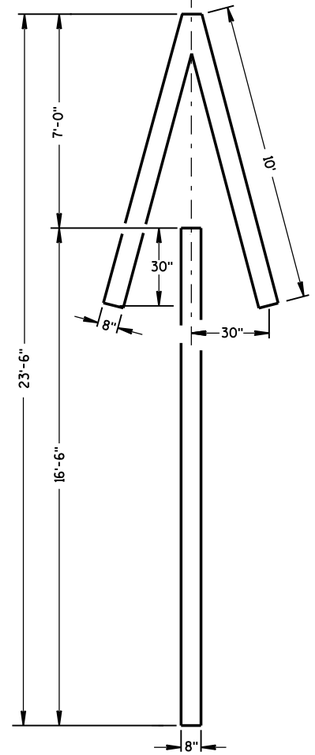
DETAILS OF INSTALLATION, MATERIALS AND WORKMANSHIP NOT SHOWN ON THIS DRAWING SHALL CONFORM TO THE PERTINENT REQUIREMENTS OF THE STANDARD SPECIFICATIONS AND APPLICABLE SPECIAL PROVISIONS.



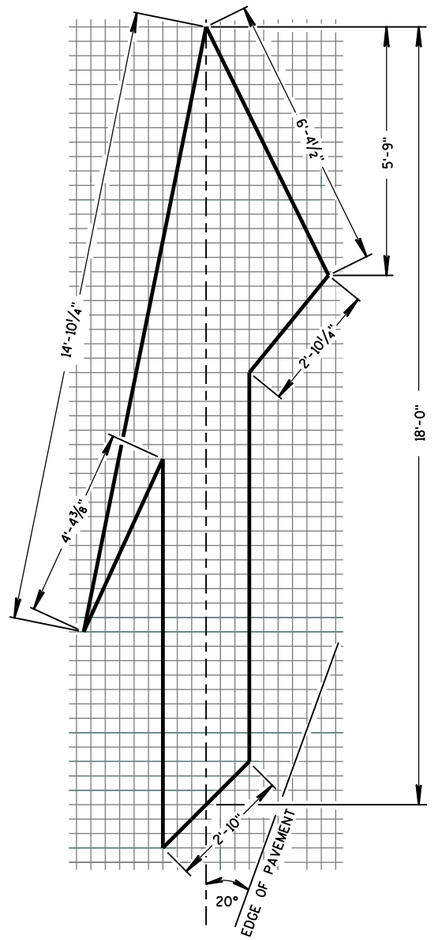
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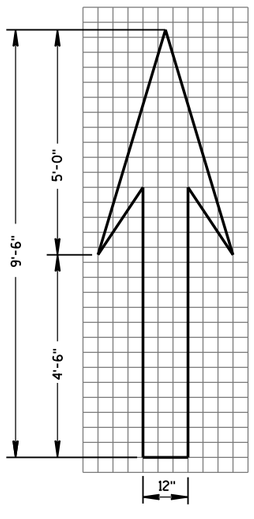
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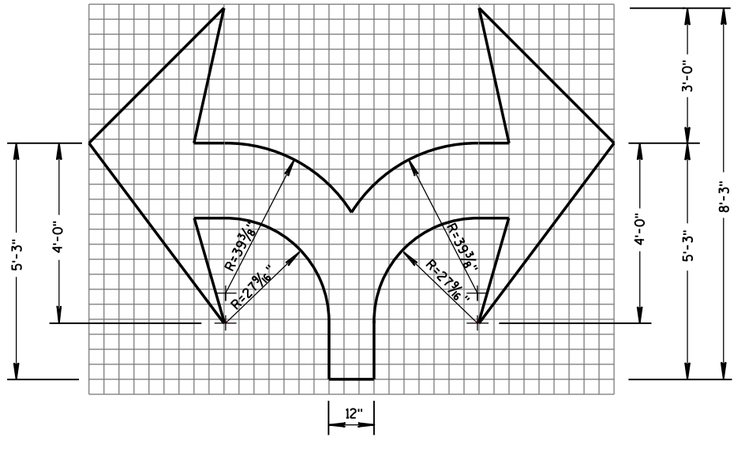
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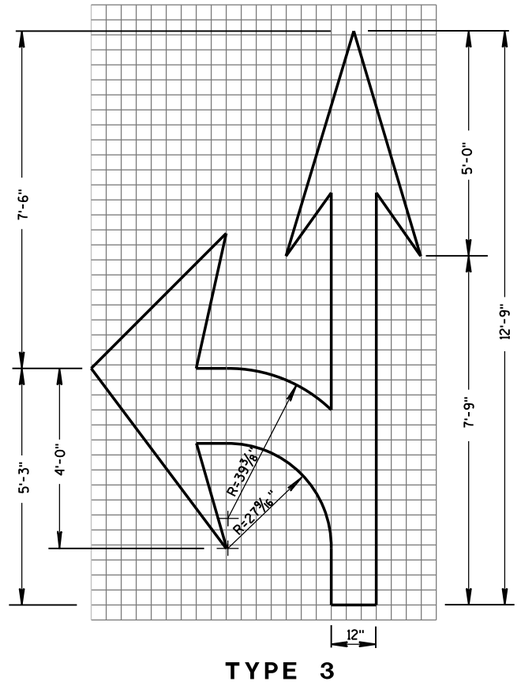
TYPE 5 LANE DROP ARROW



TYPE 1



TYPE 7



TYPE 3

PAVEMENT MARKING ARROWS

STATE OF WISCONSIN
DEPARTMENT OF TRANSPORTATION

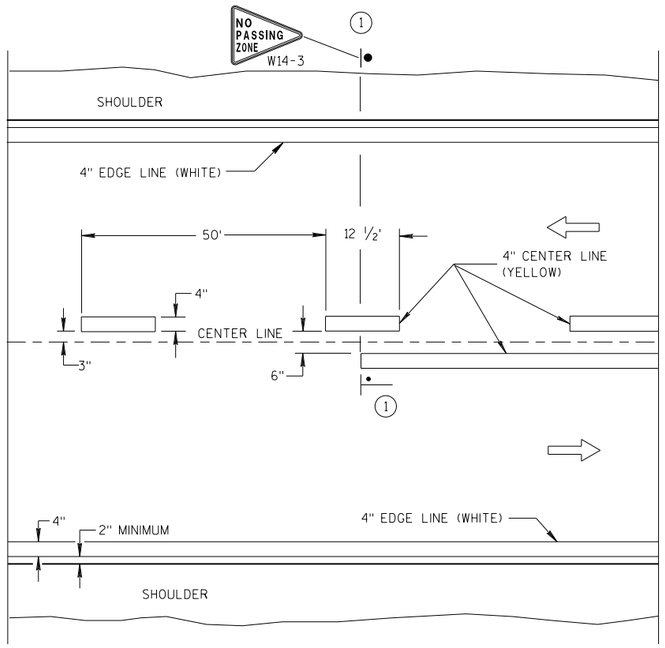
APPROVED
June 2017 — DATE
/S/ Matthew R. Rauch — STATE SIGNING AND MAR ENGINEER
FHWA

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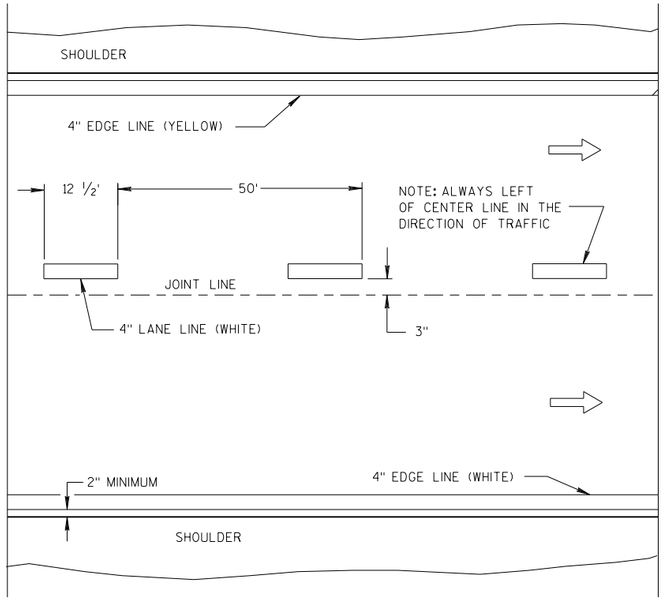
S.D.D. 15 C 7-14c

6

S.D.D. 15 C 7-14c



TWO WAY TRAFFIC



ONE WAY TRAFFIC

PERMANENT PAVEMENT MARKING

GENERAL NOTES

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

(1) LOCATE THE NO PASSING ZONE W14-3 SIGN WITHIN 50 FEET OF THE "T" MARKING.

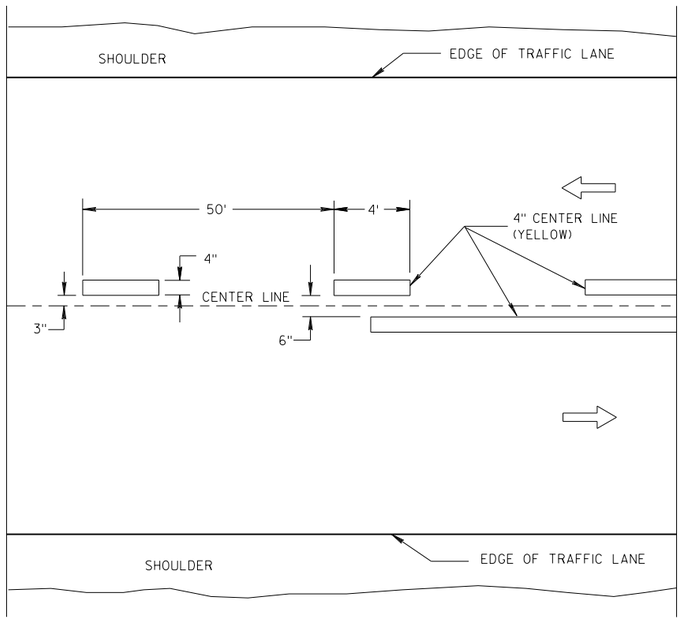
NOTE

ARROW SYMBOL (⇨) SHOWS DIRECTION OF TRAVEL

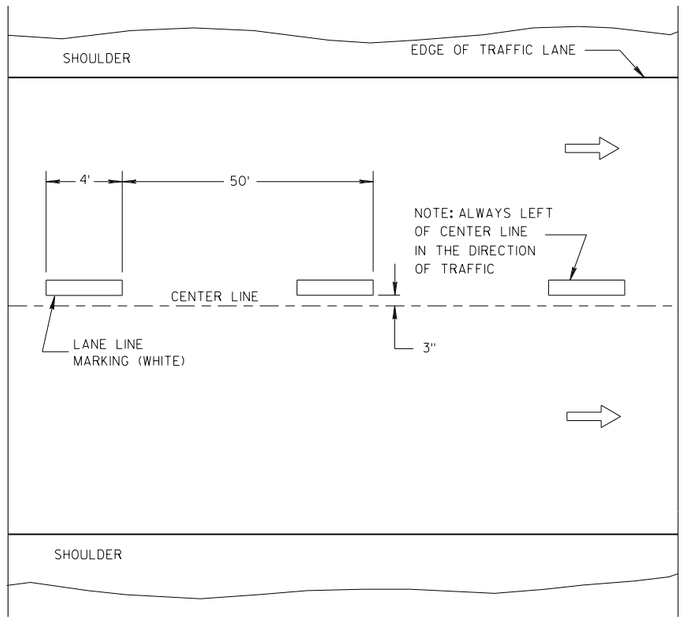
LEGEND

"T" MARKING

POST MOUNTED SIGN



TWO WAY TRAFFIC



ONE WAY TRAFFIC

TEMPORARY PAVEMENT MARKING

LONGITUDINAL MARKING (MAINLINE)

STATE OF WISCONSIN
DEPARTMENT OF TRANSPORTATION

APPROVED

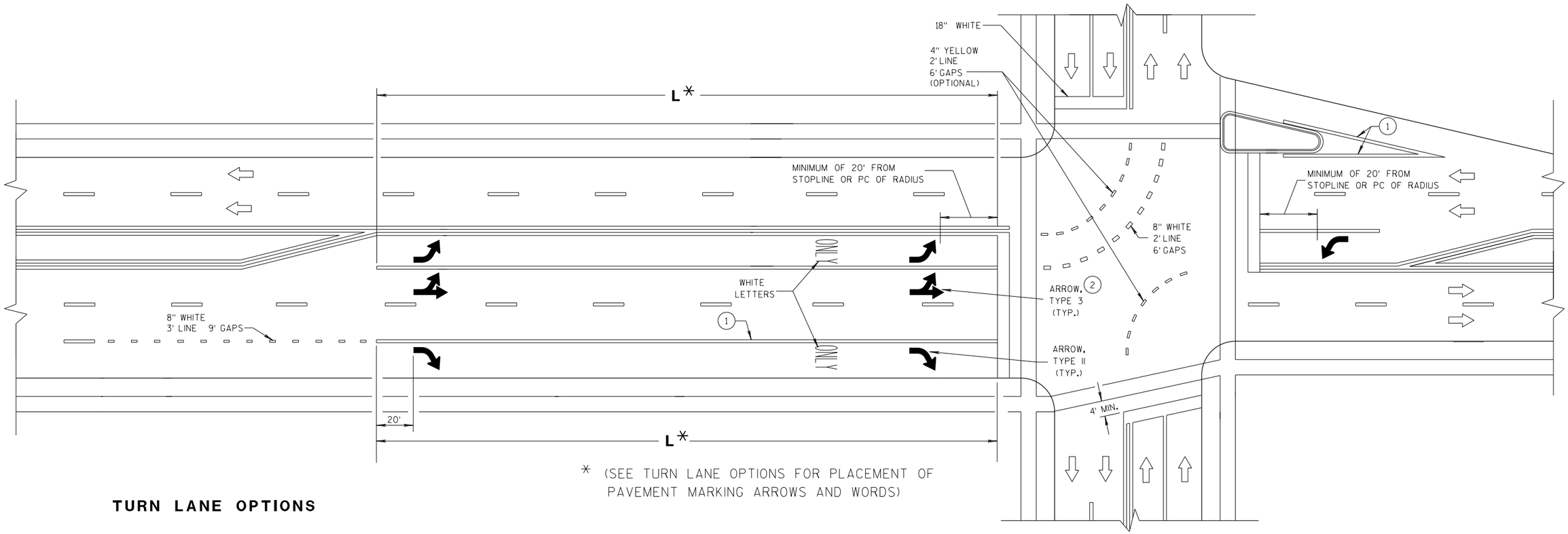
7/2018 — DATE

/S/ Matthew R. Rauch — STATE SIGNING AND MARKING ENGINEER

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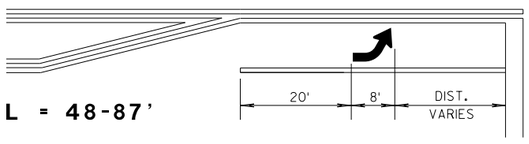
S.D.D. 15 C 8-19a



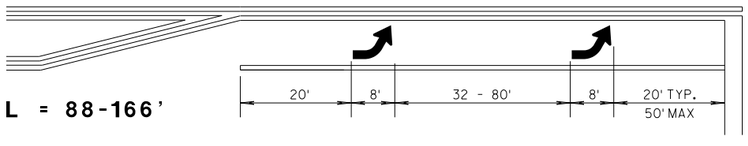
* (SEE TURN LANE OPTIONS FOR PLACEMENT OF PAVEMENT MARKING ARROWS AND WORDS)

TURN LANE OPTIONS

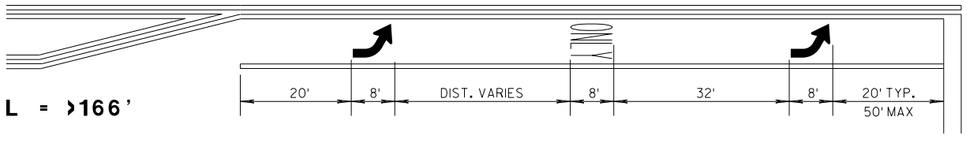
LENGTH OF TURN BAY (**L**) OF 0-47' DOES NOT REQUIRE PAVEMENT MARKING ARROWS OR WORDS



L = 48-87'



L = 88-166'



L = >166'

GENERAL NOTES

(1) 8" WHITE

(2) QUANTITY AND LOCATION OF TYPE 3 ARROW ARE THE SAME AS THE TYPE II ARROWS IN THE ADJACENT TURN LANE. FOR TURN LANES WITH A PHYSICAL SEPARATION, THE ARROWS AND ONLY MARKING ARE ELIMINATED.

⇨ DIRECTION OF TRAFFIC

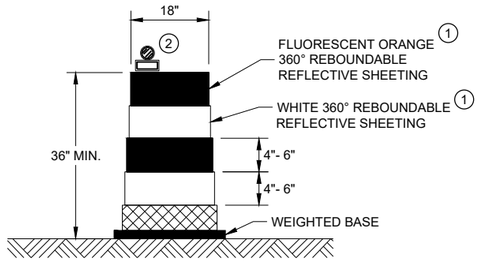
L = LENGTH OF TURN BAY

PAVEMENT MARKING (TURN LANES)

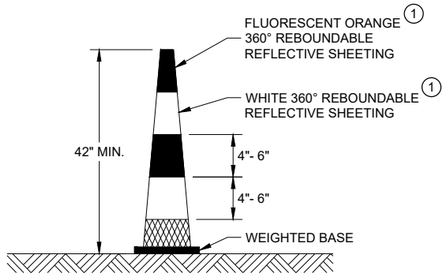
6
S.D.D. 15 C 8-19c

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.

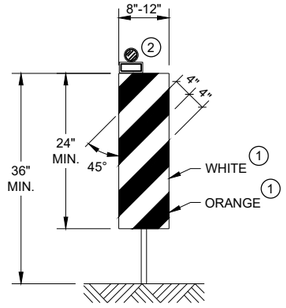


DRUM



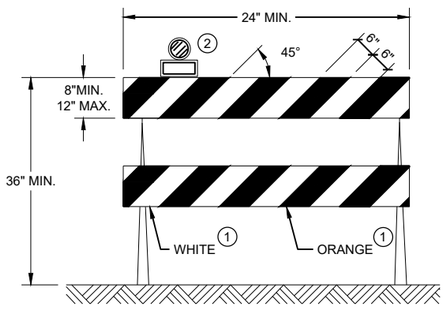
42" CONE

DO NOT USE IN TAPERS
½ SPACING OF DRUMS



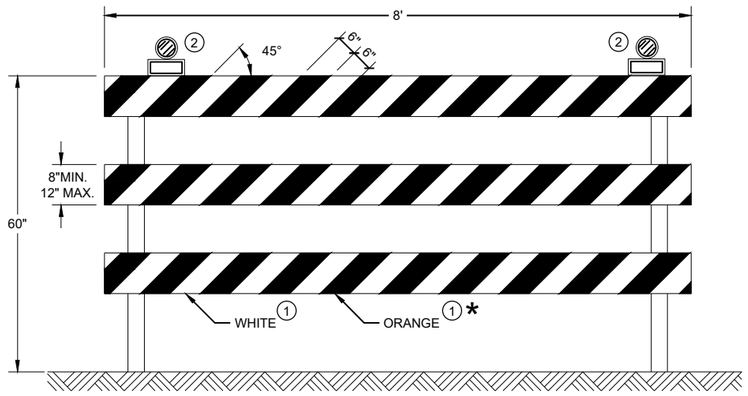
VERTICAL PANEL

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

APPROVED
June 2017
DATE

/S/ Andrew Heidtke
WORK ZONE ENGINEE

FHWA

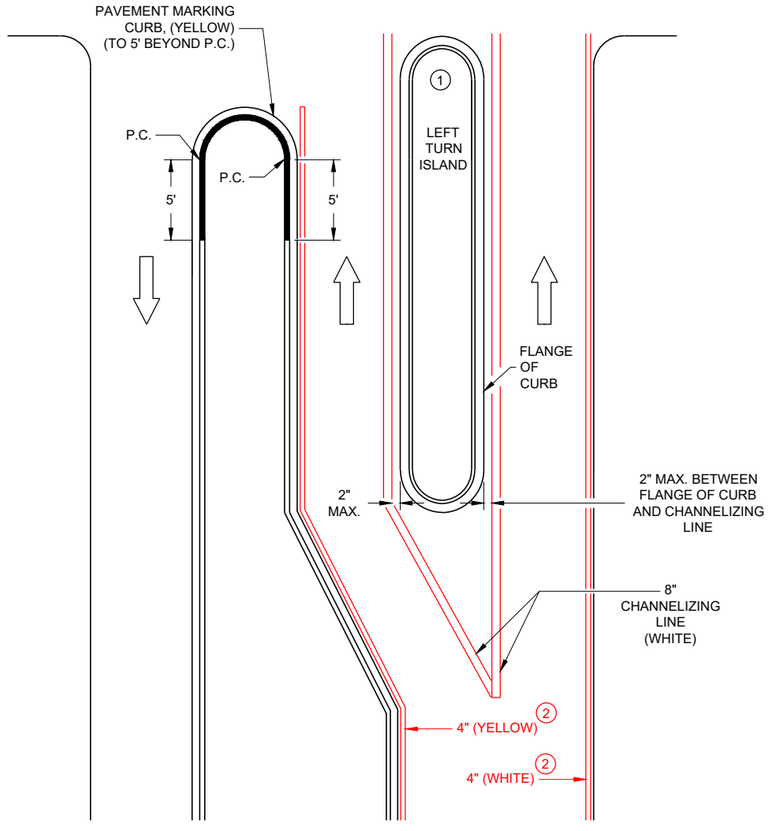
6

SDD 15C11 - 07b

6

SDD 15C11 - 07b

REQUIREMENTS FOR EDGE LINES		
POSTED SPEED	IS THERE CONTINUOUS LIGHTING?	
	YES	NO
≤ 30 MPH	NO	OPTIONAL
35 OR 40 MPH	OPTIONAL	RECOMMENDED
≥ 45 MPH	RECOMMENDED	REQUIRED



LEFT TURN & MEDIAN ISLAND

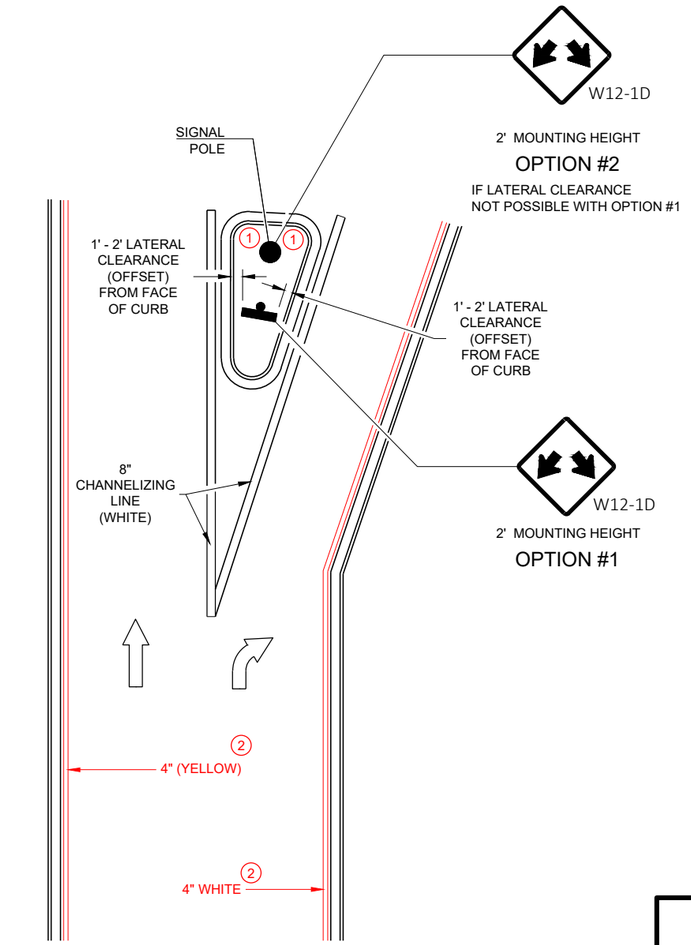
GENERAL NOTES

APPLIES TO ISLANDS AT LEFT TURNS AT ONE WAY ROADWAYS AS WELL.

SEE MISCELLANEOUS QUANTITIES FOR SIGN SIZE.

1. MARK CURB NOSES YELLOW.
2. MARK ACCORDING TO TABLE.

DIRECTION OF TRAVEL



RIGHT TURN ISLAND

DOUBLE ARROW
WARNING SIGN PLACEMENT

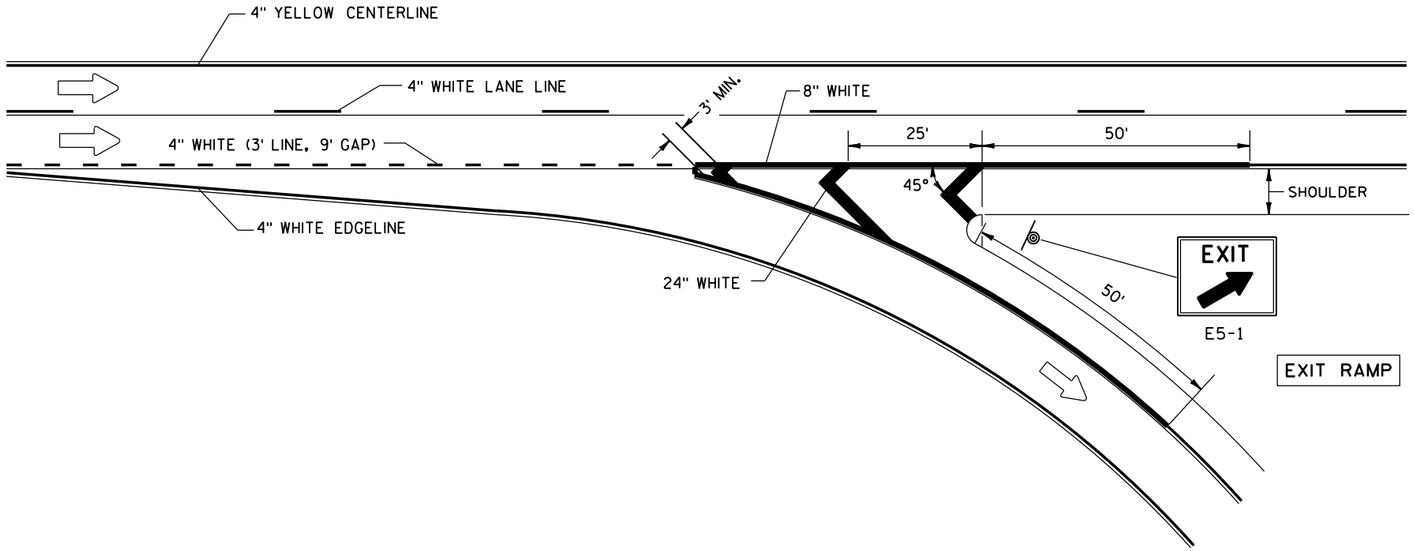
STATE OF WISCONSIN
DEPARTMENT OF TRANSPORTATION

APPROVED
7/2018
DATE
/S/ Matthew R. Rauch
STATE SIGNING AND MAF ENGINEER

FHWA

6

SDD 15C27 - 03a



PAVEMENT MARKING FOR EXIT RAMP

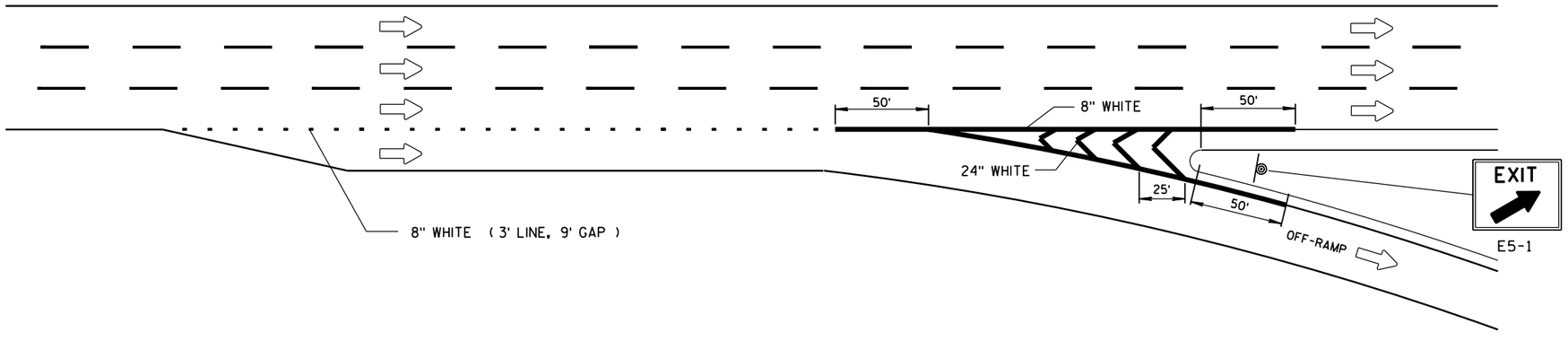
GENERAL NOTES

PLACE GROOVE 3 INCHES LEFT OF JOINT.

LEGEND

DIRECTION OF TRAVEL

SIGN ON PERMANENT SUPPORT



SERVICE INTERCHANGE PAVEMENT MARKING FOR PARALLEL EXIT-RAMP

6

S.D.D. 15 C 31-3a

PAVEMENT MARKING (RAMPS AND GORES)

STATE OF WISCONSIN
DEPARTMENT OF TRANSPOI

6

S.D.D. 15 C 31-3a

LEGEND

- TYPE III BARRICADE
- TYPE III BARRICADE WITH ATTACHED SIGN
- TRAFFIC CONTROL DRUM
- SIGN ON PERMANENT SUPPORT
- TYPE "A" WARNING LIGHT (FLASHING)
- DIRECTION OF TRAFFIC

GENERAL NOTES

THIS RAMP CLOSURE DETAIL IS TYPICAL FOR CLOSING A RIGHT SIDE EXIT RAMP. FOR A LEFT SIDE EXIT RAMP, REVERSE THE TRAFFIC CONTROL.

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

THE SPACING BETWEEN TRAFFIC CONTROL SIGNS SHOULD BE ADJUSTED TO NOT CONFLICT WITH AND SHOULD PROVIDE A MINIMUM OF 200 FEET (500 FEET DESIRABLE) CLEARANCE TO EXISTING SIGNS THAT WILL REMAIN IN PLACE.

ALL SIGNS ARE 48" X 48" UNLESS OTHERWISE NOTED.

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

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.

PLACE TEMPORARY PAVEMENT MARKING, REMOVABLE TAPE IF RAMP CLOSURE IS TO BE IN PLACE 4 OR MORE CONTINUOUS DAYS AND NIGHTS.

WORK AREAS WITH A DROP OFF ALONG THE EDGE OF AN OPEN TRAVEL LANE SHALL BE LEVELED WITH TEMPORARY FILL WHEN THE CONTRACTOR IS NOT WORKING ADJACENT TO THE TRAVEL LANE. DRUMS SHALL BE PLACED ENTIRELY OUTSIDE THE TRAVEL LANE, ALLOWING THE FULL UNOBSTRUCTED LANE WIDTH, WHEN WORK IS NOT IN PROGRESS.

WHERE MEDIAN BARRIER IS IN PLACE, SIGNS SHOWN ON LEFT SIDE OF ROADWAY MAY BE OMITTED FOR RIGHT SIDE RAMP CLOSURES OF LESS THAN 12 - HOUR DURATION.

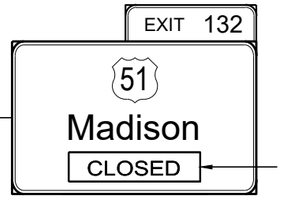
* W20 - 1A AND G20 - 2A SIGNS ARE NOT REQUIRED IF THE RAMP CLOSURE IS WITHIN A LARGER WORK ZONE WHERE THESE SIGNS ARE ALREADY PRESENT.

** PLACE "RAMP CLOSED BEGINNING" SIGN OR PCMS 7 CALENDAR DAYS PRIOR TO CLOSURE OR AS DIRECTED BY THE ENGINEER. SEE WISCONSIN STANDARD SIGN PLATES FOR SIGN LAYOUT.



G20 - 60
108" X 24"

OR



G20 - 60
108" X 24"

PLACE SIGN G20 - 60 OVER MILEAGE ON EXISTING E1 - 1A SIGN



COVER ARROW ON EXISTING E4 - 1 SIGN (COVERING SIGNS TYPE I)

G20 - 61
120 ' X 30"

OR

PCMS MESSAGING

FRAME 1	FRAME 2
RAMP TO CLOSE	XXXDAY XX XX XX

TRAFFIC CONTROL EXIT RAMP CLOSURE

STATE OF WISCONSIN
DEPARTMENT OF TRANSPORTATION

APPROVED
November 2018
DATE

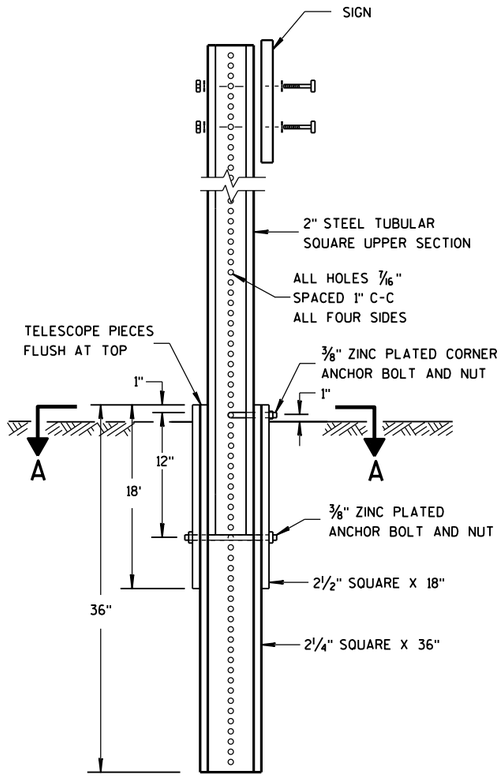
/S/ Andrew Heidtke
WORK ZONE ENGINEER

FHWA

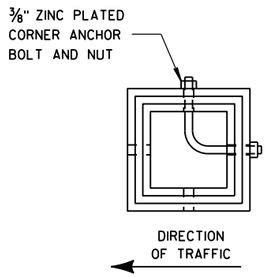
SDD 15D16 - 04

6

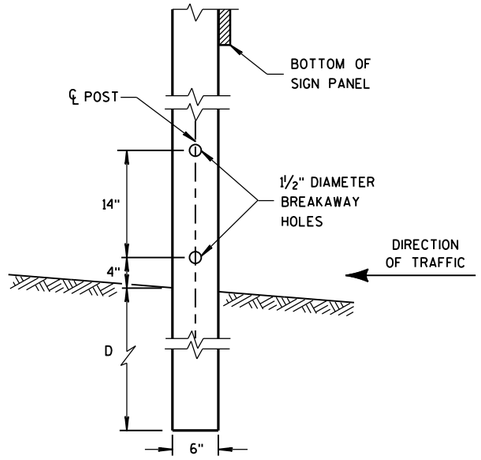
SDD 15D16 - 04



DETAIL OF TUBULAR STEEL SIGN POST



SECTION A-A



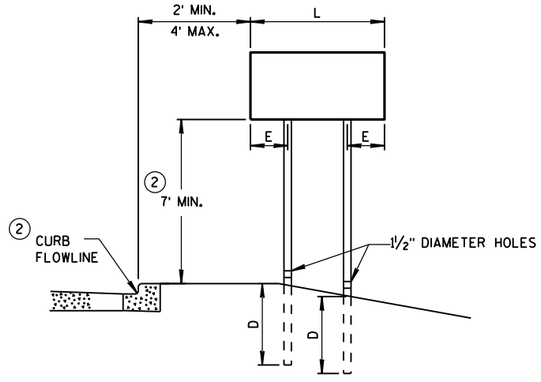
4"x6" WOOD POST MODIFICATION

GENERAL NOTES

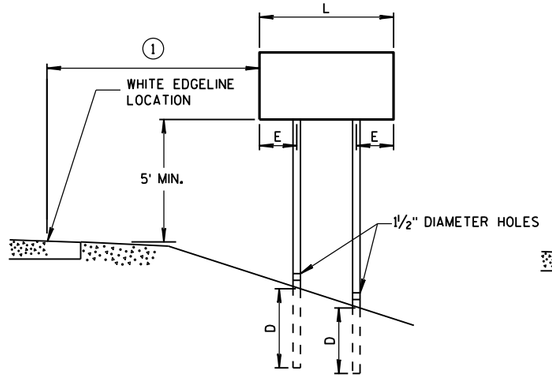
(1) 6 FEET FROM THE EDGE OF PAVEMENT (EDGE LINE LOCATION) UNLESS OTHERWISE DIRECTED BY THE PROJECT ENGINEER. LATERAL OFFSET SHOULD BE ADJUSTED TO AVOID THE DITCH FLOWLINE.

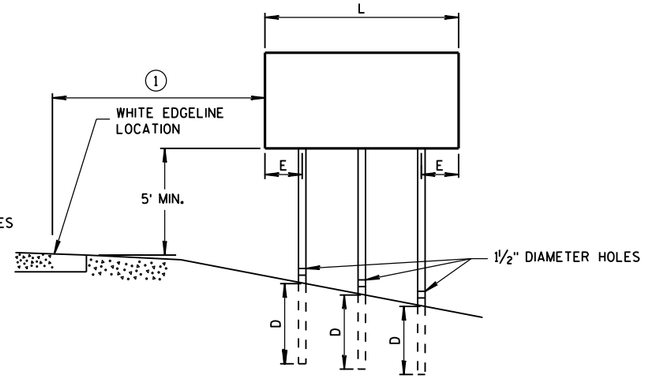
(2) THE EXISTENCE OF CURB AND GUTTER DOES NOT IN ITSELF MANDATE THE VERTICAL CLEARANCE ILLUSTRATED. THAT HEIGHT IS TYPICALLY MEASURED WHERE THERE IS SIDEWALK ADJACENT TO THE ROADWAY OR PARKING IS PERMITTED. IN THE ABSENCE OF SIDEWALK, VERTICAL CLEARANCE IS MEASURED FROM THE TOP OF THE CURB. IF NO SIDEWALK AND NO PARKING, VERTICAL CLEARANCE MAY BE REDUCED TO 5 FOOT MINIMUM. OFFSET OF SIGNS IS MEASURED FROM THE CURB FLOWLINE.

(3) FOR SIGNS REQUIRING 4 POSTS, SPACE INTERMEDIATE POSTS EVENLY.



URBAN AREA





RURAL AREA

POST MOUNTING DETAIL FOR TEMPORARY TRAFFIC CONTROL FIXED MESSAGE SIGNS

TUBULAR STEEL POSTS

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

SIGNS WIDER THAN 3 FEET OR LARGER THAN 9 SQ. FT. SHALL BE MOUNTED ON MULTIPLE POSTS (SEE ABOVE TABLE).

SIGNS LARGER THAN 27 SQ. FT. SHALL NOT BE MOUNTED ON TUBULAR STEEL POSTS.

WOOD POST EMBEDMENT DEPTH

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

4" X 6" WOOD POST

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

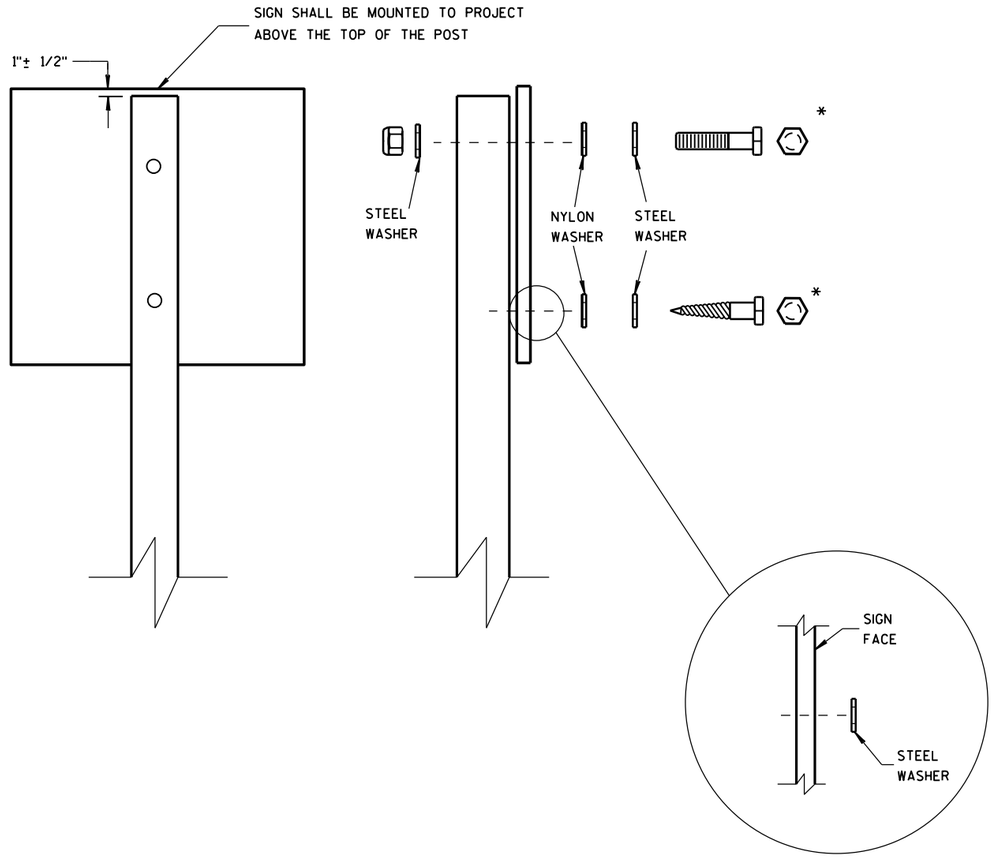
SEE NOTE (3)

TEMPORARY TRAFFIC CONTROL SIGN MOUNTING

STATE OF WISCONSIN
DEPARTMENT OF TRANSPOI

6

S.D.D. 15 D 38-2a



WASHER PLACEMENT WHEN SIGN HAS OTHER THAN TYPE H OR TYPE F FACE

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

A. HOT DIP GALVANIZED IN ACCORDANCE WITH ASTM DESIGNATION: A 153, CLASS D, OR SC 3

B. ELECTRO-GALVANIZED IN ACCORDANCE WITH ASTM DESIGNATION: B 633, TYPE III, SC 3

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

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

LAG SCREWS - 3/8" X 3"

MACHINE BOLTS - 5/16" X 6-1/2" OR 7" LENGTH W/ NUTS

SQUARE STEEL POSTS (2" x 2")

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

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

WASHERS (ALL POSTS) -

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

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

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

6

6

S.D.D. 15 D 38-2b

S.D.D. 15 D 38-2b

ATTACHMENT OF SIGNS TO POSTS

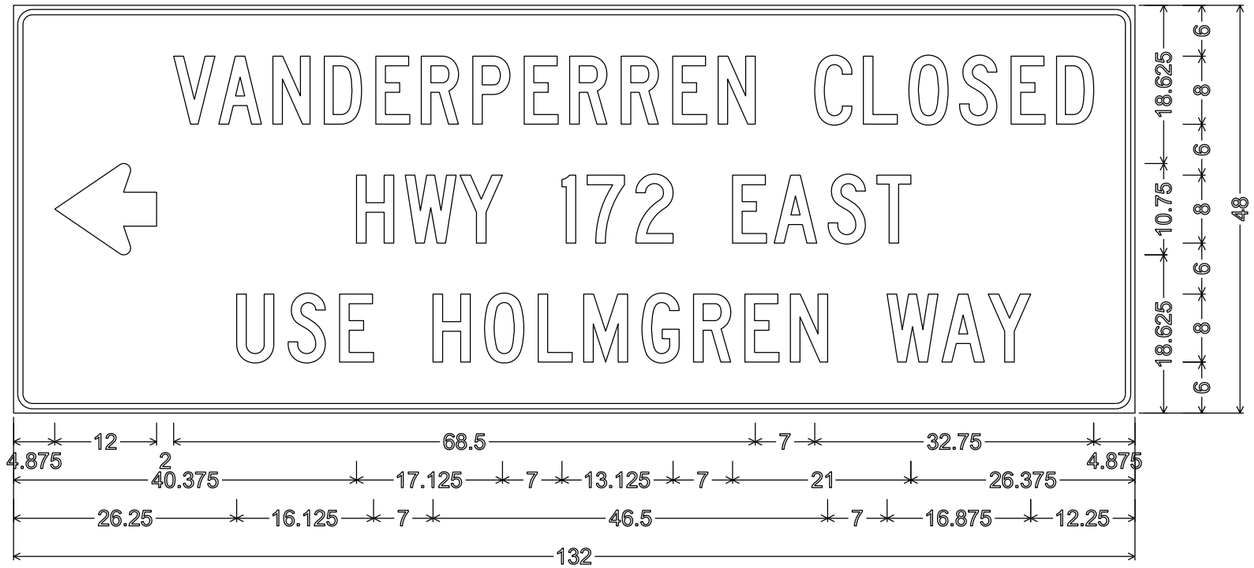
STATE OF WISCONSIN
DEPARTMENT OF TRANSPORTATION

APPROVED

June 2017
DATE

/S/ Andrew Heldtke
WORK ZONE ENG

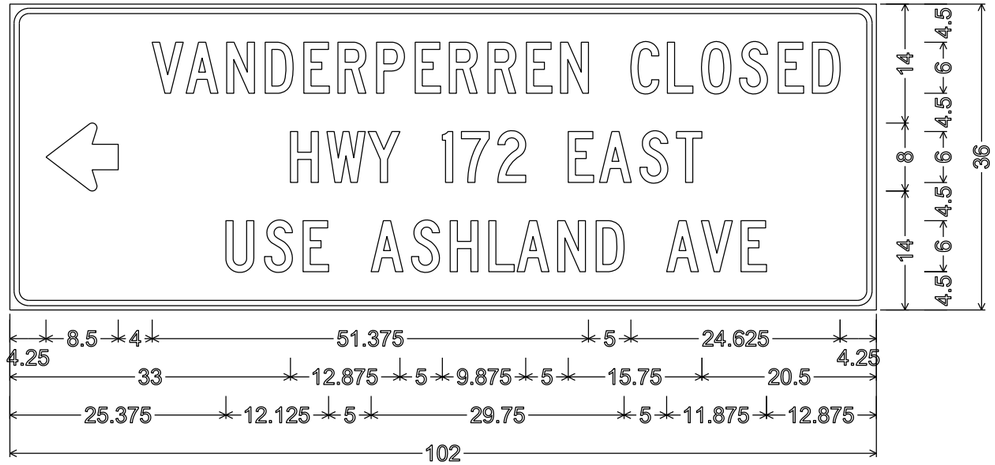
FHWA



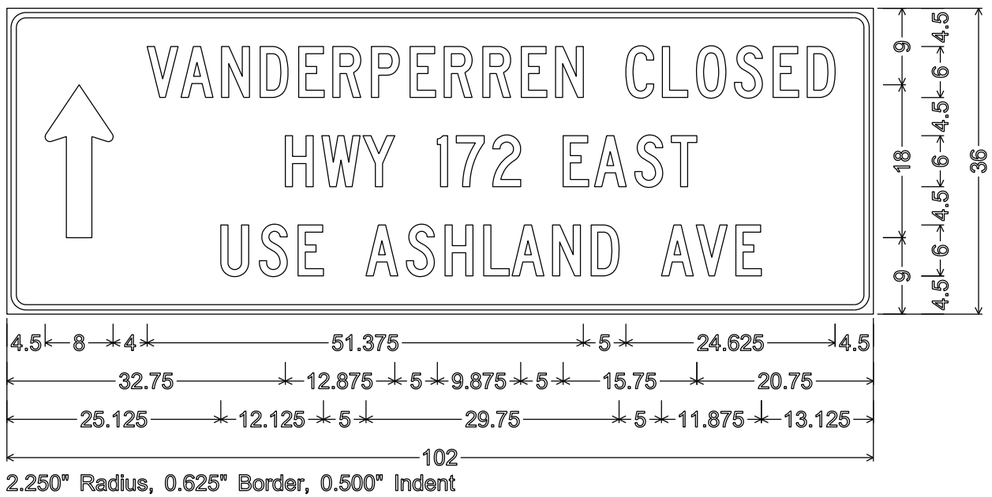
2.250" Radius, 0.625" Border, 0.500" Indent

NOTES

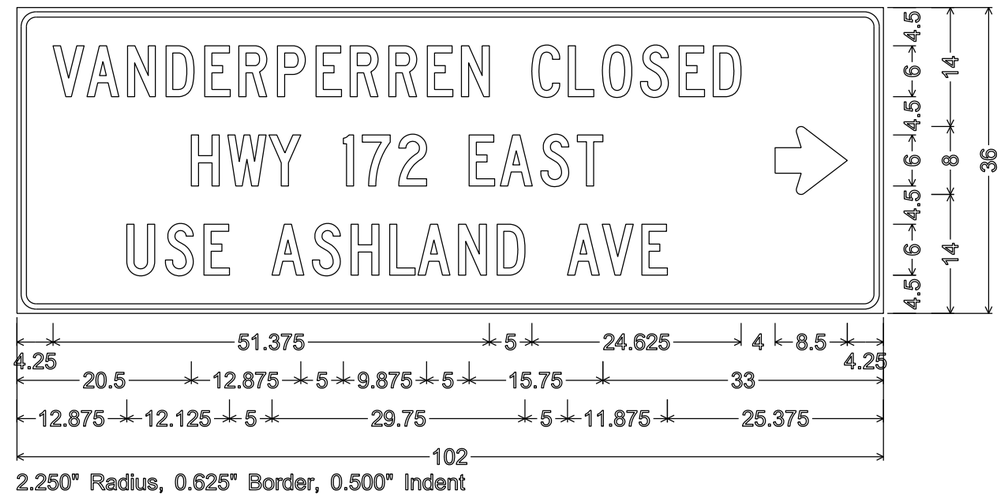
1. Fixed Message Type II Signs - Type F Reflective
2. Color:
   Background - Orange
   Message - Black
3. Message Series - C



2.250" Radius, 0.625" Border, 0.500" Indent



2.250" Radius, 0.625" Border, 0.500" Indent



2.250" Radius, 0.625" Border, 0.500" Indent

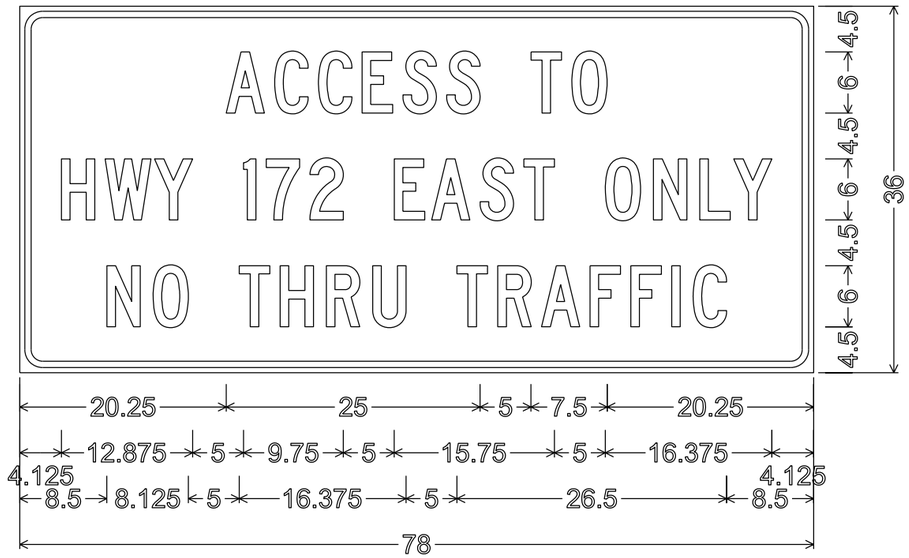
7

7

PROJECT NO: 9266-11-03	HWY: CTH HH	COUNTY: BROWN	TEMPORARY SIGNING	SHEET NO: 138	E

NOTES

1. Fixed Message Type II Signs - Type H Reflective
2. Color:
   Background - White
   Message - Black
3. Message Series - C



2.250" Radius, 0.625" Border, 0.500" Indent

7

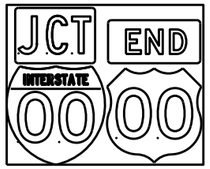
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PROJECT NO: 9266-11-03	HWY: CTH HH	COUNTY: BROWN	TEMPORARY SIGNING	SHEET NO: 139	E

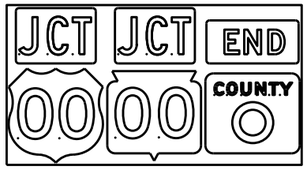
TYPICAL ASSEMBLIES



J1-1



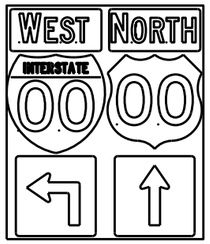
J1-2



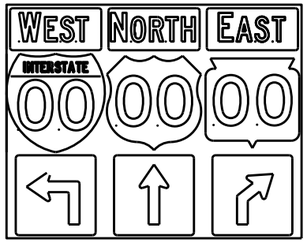
J1-3



J2-1



J2-2

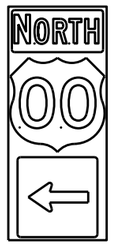


J2-3

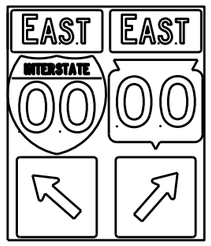


JV

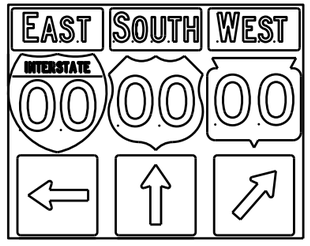
(Typical Vertical J-Assembly
See Note 10 and 11)



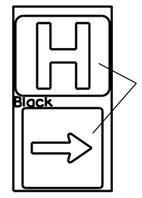
J3-1



J3-2



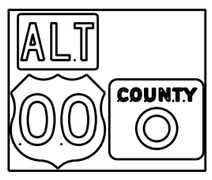
J3-3



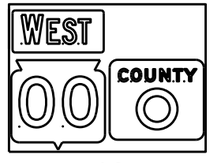
JH-1



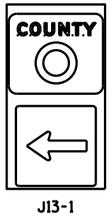
J4-1



J4-2



J4-2



J13-1



J12-1



J32-1



J33-1

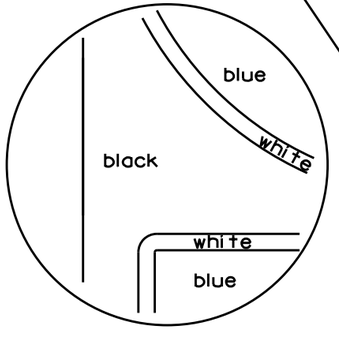


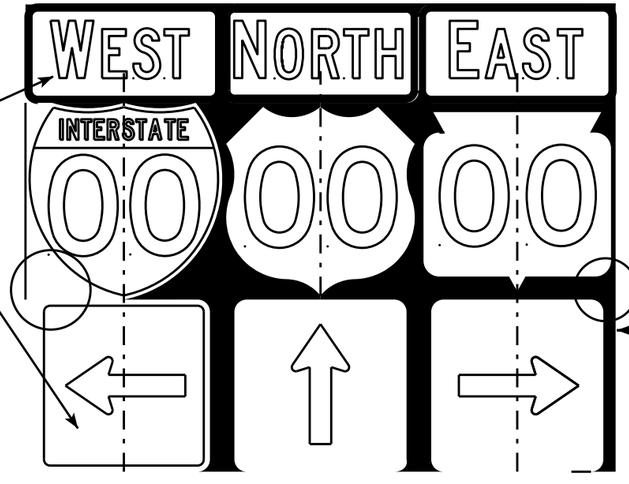
J23-1

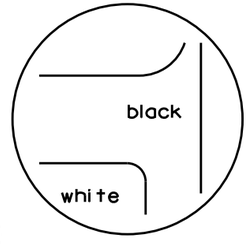


J22-1

blue background
with interstate







black background

NOTES

1. Signs are Type II - Type H Reflective - reference WIS DOT Standard Specification for HIGHWAY and STRUCTURE CONSTRUCTION latest edition.
2. Color:
   Background - Black Non-reflective
   Message - see Note 5
3. Message Series - See Note 5
4. Corners shall be square or rounded if base material is plywood. If base material is metal the corners shall be rounded.
5. The colors and message spacing on each marker shall be according to the applicable route marker panel specifications.
6. Certain marker heads require the component pieces to be the same color. As an example, all the components used with an M1-1 Interstate marker shall be blue.
7. Single panel j-assemblies shall only be used with route marker shields that are same size. If the route marker shields are different size use multiple piece component.
8. Route assemblies that have 24 inch route shields and have dimensions greater than 48 inches (both vertical and horizontal) shall have one horizontal splice between the arrows and route shields. Vertical splices shall not be used on route assemblies with a horizontal dimension of 144 inches or less. The contractor shall not use more than one vertical joint per sign and the joint shall be between route shields.
9. Route assemblies that have 36 inch shields and have dimensions greater than 48 inchs (both vertical and horizontal) shall have two horizontal splices. One horizontal splice shall be between the cardinal direction and route shields and the other horizontal splice shall be between the arrows and route shields. Vertical splices shall not be used on route assemblies with a horizontal dimension of 144 or less. The contractor shall not use more than one vertical joint per sign and the joint shall be between route shields.
10. All Vertical J Assemblies are given a Sign Code of JV
11. For JV Assemblies that have a mixture of Interstate and non Interstate shields, arrows and cardinals shall be white on blue.

ROUTE MARKERS & COMPONENTS
IN TYPICAL ASSEMBLIES

WISCONSIN DEPT OF TRANSPORTATION

APPROVED Matthew R Rauch
for State Traffic Engineer

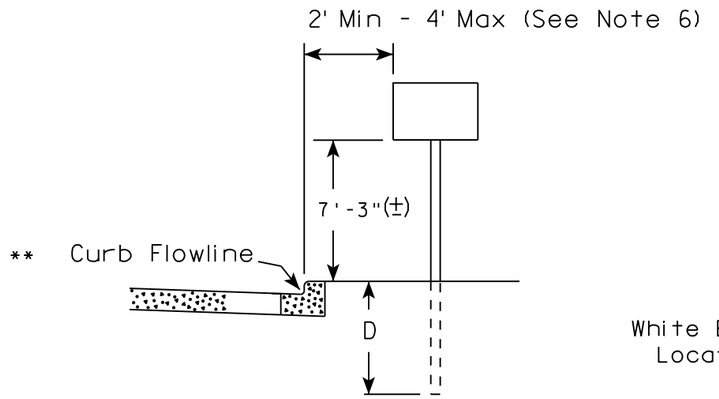
DATE 2/06/14 PL... A2-1S.8

PROJECT NO: | SHEET NO: E

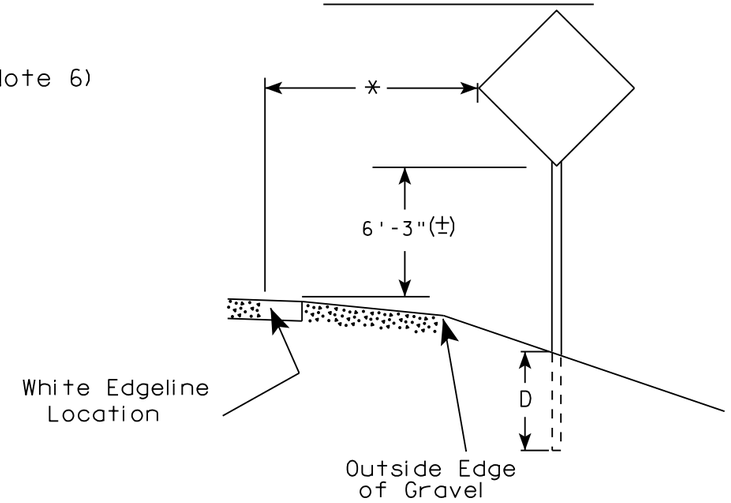
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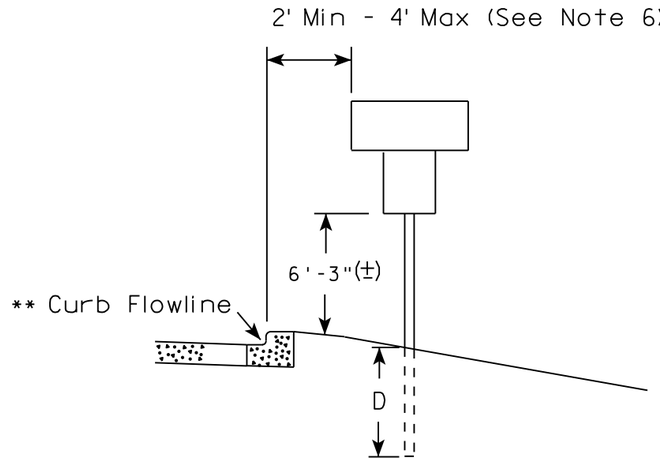
WISDOT/CADDS SHEET 42

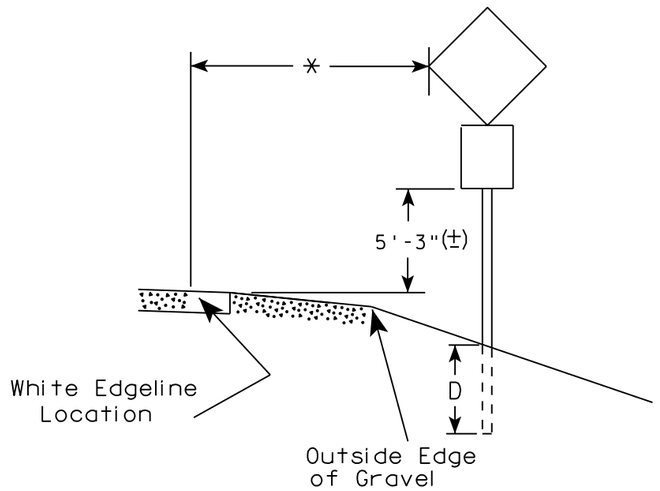
URBAN AREA



RURAL AREA (See Note 2)







** The existence of curb and gutter does not in itself mandate the vertical clearance illustrated. That height is typically measured where there is sidewalk adjacent to the roadway or parking is permitted. In the absence of sidewalk vertical clearance is measured from the top of the curb. Offset of signs is measured from the flow line.

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

POST EMBEDMENT DEPTH

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

GENERAL NOTES

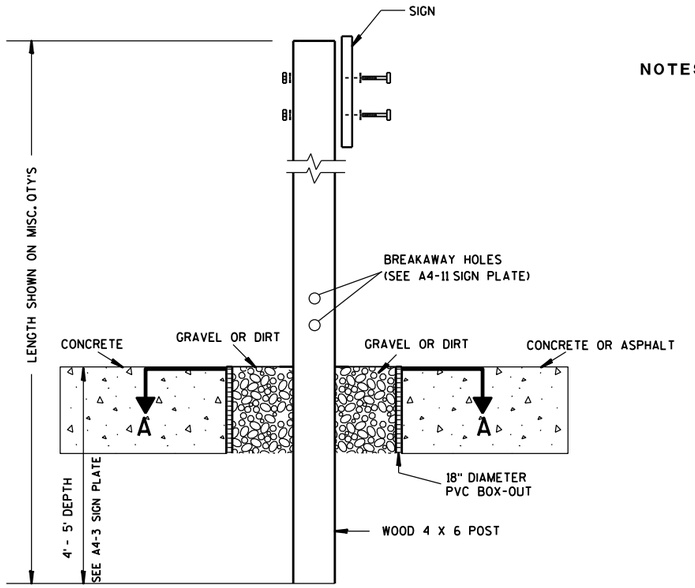
1. Signs wider than 4 feet or 20 sq.ft or larger, shall be mounted on multiple posts. Refer to plate A4-4.
2. If signs are mounted on barrier wall, see A4-10 sign plate.
3. For expressways and freeways, mounting height is 7'- 3" (±) or 6'-3" (±) depending upon existence of a sub-sign.
4. J-Assemblies are considered to be one sign for mounting height.
5. Minimum mounting height for signs mounted on traffic signal poles is 5'- 3" (±).
6. Offset distance shall be consistent with existing signs or consistent throughout length of project.
7. The (±) tolerance for mounting height is 3 inches.
8. Folding signs shall be mounted at a height of 5'-3" (±) or as directd by the Engineer.
9. The Double Arrow sign (W12-1) shall be mounted at a height of 2'-3" (±). The Chevron sign (W1-8), Roundabout Chevron panel (R6-4B), Enhanced Reference Markers, Clearance Markers (W5-52), Mile Markers (D10 series), In Road Object Markers (W5-54) & End of Road Markers (W5-56) shall be mounted at a height of 4'-3" (±).

TYPICAL INSTALLATION OF PERMANENT TYPE II SIGNS ON SINGLE POSTS

WISCONSIN DEPT OF TRANSPORTATION

APPROVED Matthew R Rauch
for State Traffic Engineer

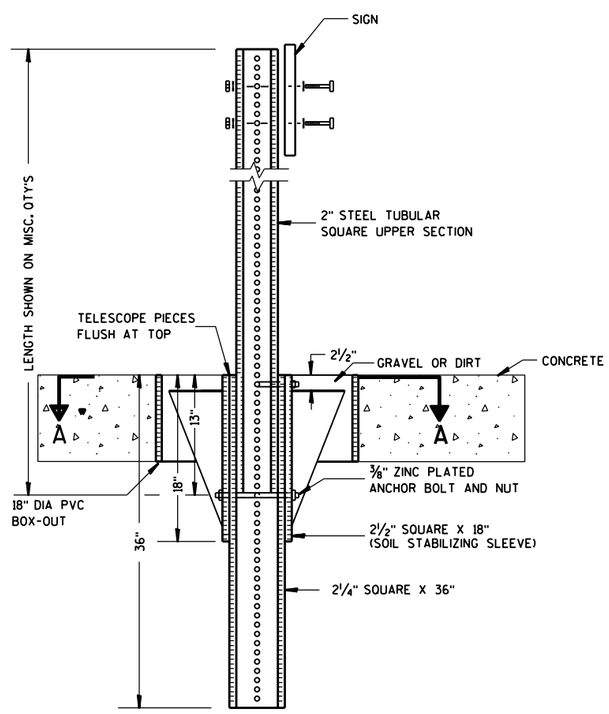
DATE 8/21/17 PLATE NO. A4-3.21



ELEVATION VIEW

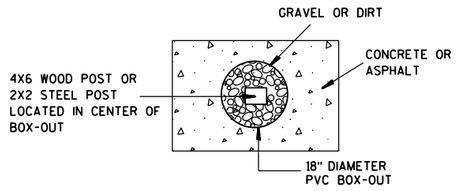
DETAIL OF WOOD 4 X 6 SIGN POST IN BOX-OUT

NOTES:
1. ALL MATERIAL TO BE APPROVED BY ENGINEER PRIOR TO INSTALLATION
2. SEE SIGN PLATE A4-8 FOR SIGN HARDWARE REQUIREMENTS
3. 18 INCH X 18 INCH SQUARE BOX-OUTS MAY BE USED FOR INSTALLATIONS IN EXISTING CONCRETE OR ASPHALT LOCATIONS.



ELEVATION VIEW

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



PLAN VIEW

FOR NEW CONCRETE/ASPHALT INSTALLATIONS

SIGN POST BOX-OUTS A4-3B

WISCONSIN DEPT OF TRANSPORTATION

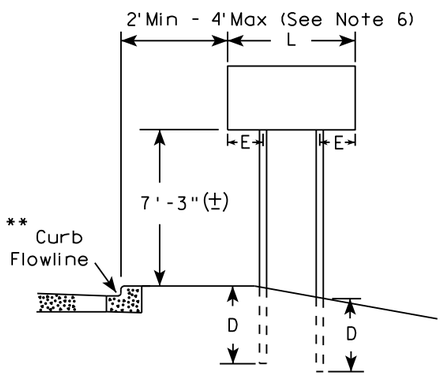
APPROVED Matthew R Rauch
for State Traffic Engineer

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

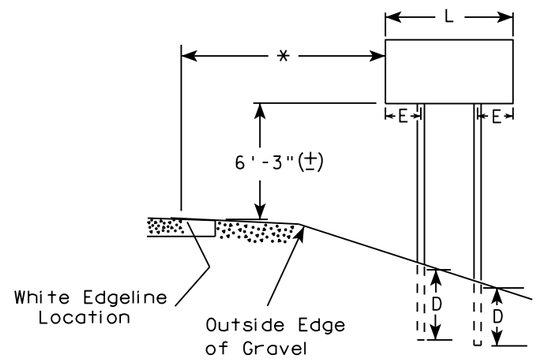
PROJECT NO:	HWY:	COUNTY:		SHEET NO:	E

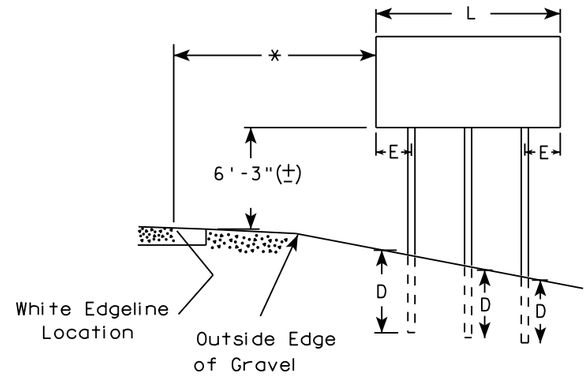
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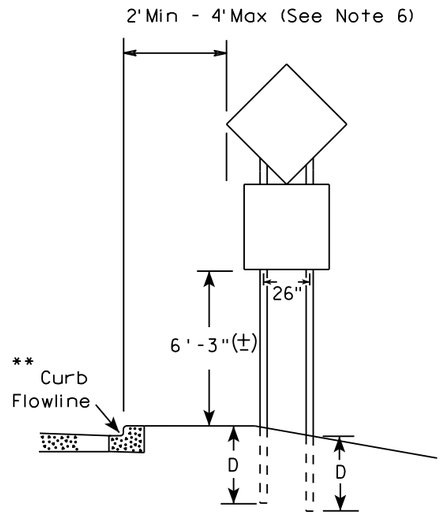
URBAN AREA



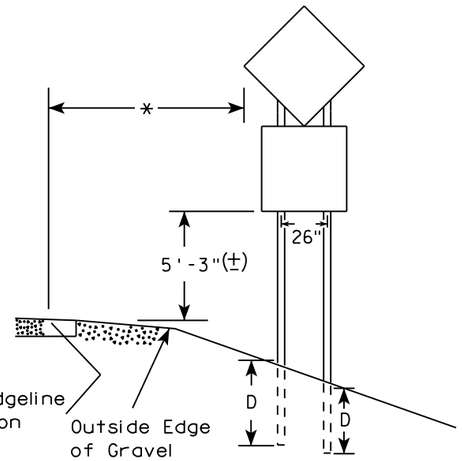
RURAL AREA (See Note 3)







48" DIAMOND WARNING SIGN



48" DIAMOND WARNING SIGN

***	SIGN SHAPE OTHER THAN DIAMOND (TWO POSTS REQUIRED)	
	L	E
	Greater than 48" Less than 60"	12"
	60" to 108"	L/5

SIGN SHAPE OTHER THAN DIAMOND (THREE POSTS REQUIRED)	
L	E
Greater than 108" to 144"	12"

GENERAL NOTES

1. For 3 or 4 post installations, individual post spacing shall be greater than 3'-6".
2. See tables below for required number of posts.
3. For expressways and freeways, mounting height is 7'-3" (±) or 6'-3" (±) depending upon existence of sub-sign.
4. The (±) tolerance for mounting height is 3 inches.
5. J-Assemblies are considered to be one sign for mounting height.
6. Offset distance shall be consistent with existing signs or consistent throughout length of project.
7. Folding signs shall be mounted at a height of 5'-3" (±) or as directed by the engineer.
8. The Double Arrow sign (W12-1) shall be mounted at a height of 2'-3" (±). The Chevron sign (W1-8), Roundabout Chevron panel (R6-4B), Clearance Markers (W5-52), Mile Markers (D10 series), In Road Object Markers (W5-54) & End of Road Markers (W5-56) shall be mounted at a height of 4"-3" (±).

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

** The existence of curb and gutter does not in itself mandate the vertical clearance illustrated. That height is typically measured where there is sidewalk adjacent to the roadway or parking is permitted. In the absence of sidewalk vertical clearance is measured from the top of the curb. Offset of signs is measured from the flow line.

*** See A4-3 sign plate for signs 4' or less in width and less than 20 S.F. in area.

POST EMBEDMENT DEPTH

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

TYPICAL INSTALLATION OF TYPE II SIGNS ON MULTIPLE POSTS

WISCONSIN DEPT OF TRANSPORTATION

APPROVED Matthew R Rauch
For State Traffic Engineer

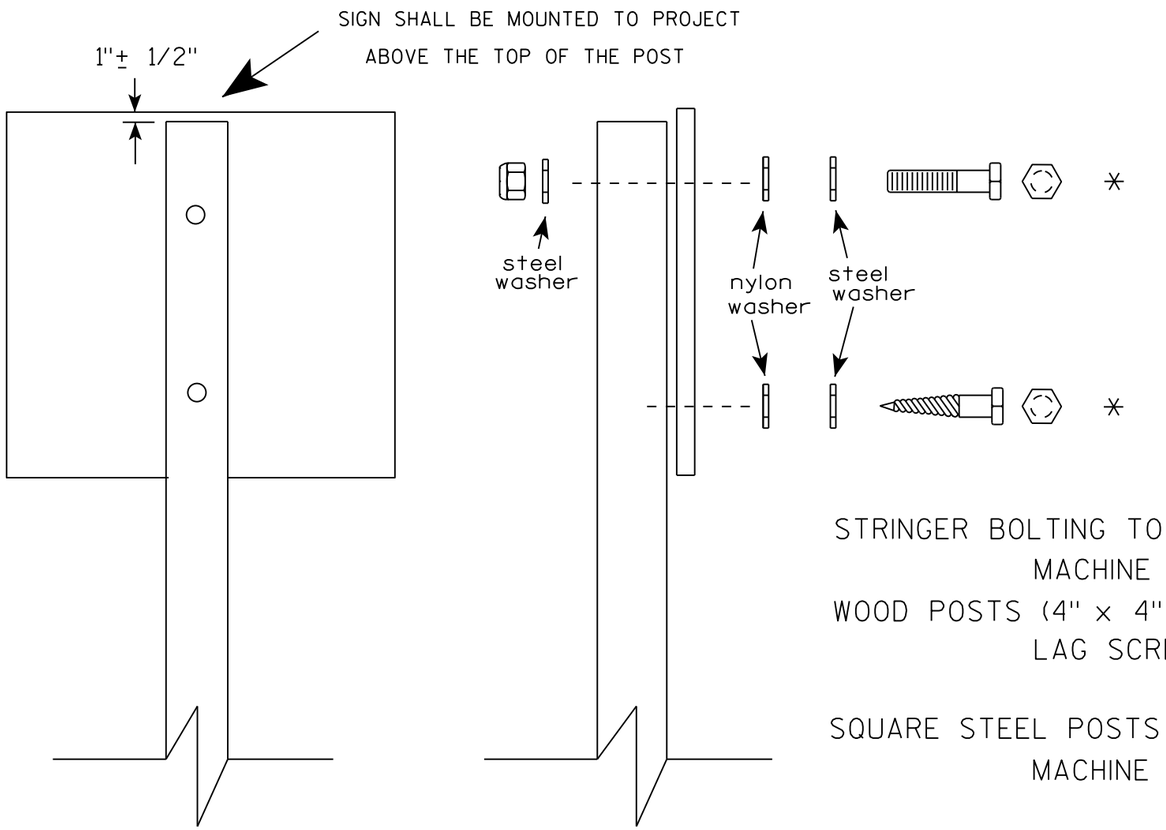
DATE 8/21/17 PLATE NO. A4-4.15

7

7

PROJECT NO: | HWY: | COUNTY: | SHEET NO: 143 | E

FILE NAME : C:\CAEfiles\Projects\tr_stdplate\A44.DGN PLOT DATE : 21-AUG-2017 15:54 PLOT BY : $$...plotuser...$$ PLOT NAME : PLOT SCALE : 108.188297:1.000000



Nuts, bolts and lags used for mounting signs shall have hexagonal heads and shall be either :

a. Hot dip galvanized in accordance with ASTM Designation: A 153, Class D, or SC 3
b. Electro-galvanized in accordance with ASTM Designation : B 633, TYPE III, SC 3.

Threads on bolts and nuts shall be manufactured with sufficient allowance for the cadmium plate or galvanized coating to permit the nuts to run freely on the bolts.

STRINGER BOLTING TO ALUMINUM SIGNS (SEE SIGN PLATE A4-18)

MACHINE BOLTS - 5/16" X 1-3/4" Length w/ lock nuts

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

LAG SCREWS - 3/8" X 3" (NO STRINGERS ON BACK OF SIGN)
3/8" X 4" (STRINGERS ON BACK OF SIGN)

SQUARE STEEL POSTS (2" x 2")

MACHINE BOLTS - 3/8" X 3-1/4" Length w/ nuts (NO STRINGER ON BACK OF SIGN)
3/8" X 5" Length w/ nuts (STRINGERS ON BACK OF SIGN)

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

WASHERS (ALL POSTS) -

1-1/4" O.D. X 3/8" I.D. X 1/16" STEEL
1-1/4" O.D. X 3/8" I.D. X .080 NYLON

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

ATTACHMENT OF SIGNS TO POSTS

WISCONSIN DEPT OF TRANSPORTATION

APPROVED Matthew R Rauch
For State Traffic Engineer

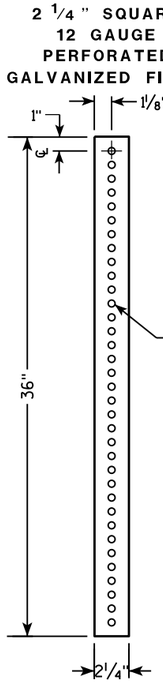
DATE 8/11/16 PLATE NO. A4-8.8

PROJECT NO: SHEET NO: E

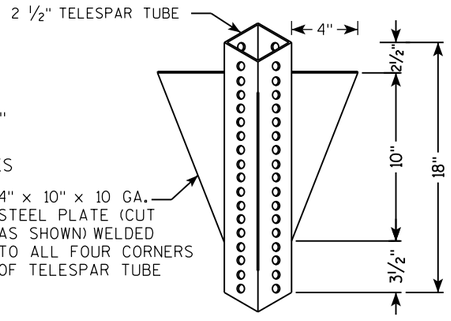
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TELESCOPIC TUBING ANCHORS
TWO PIECE SYSTEM

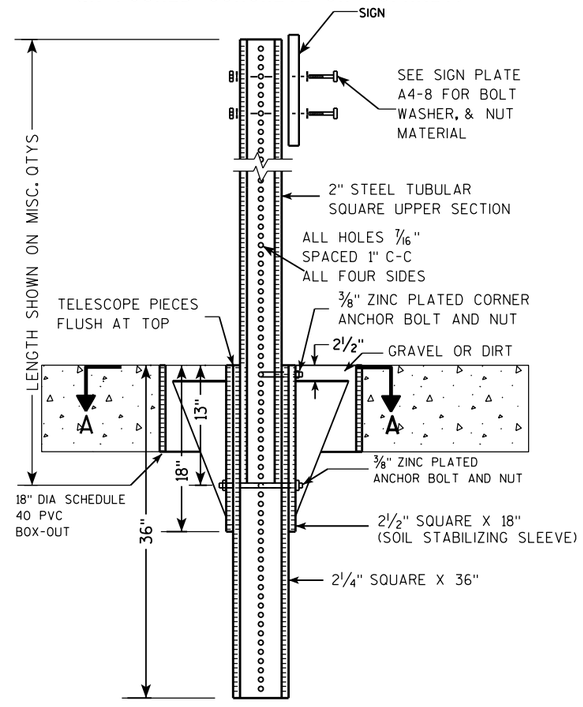
2 1/4 " SQUARE
12 GAUGE
PERFORATED
GALVANIZED FINISH



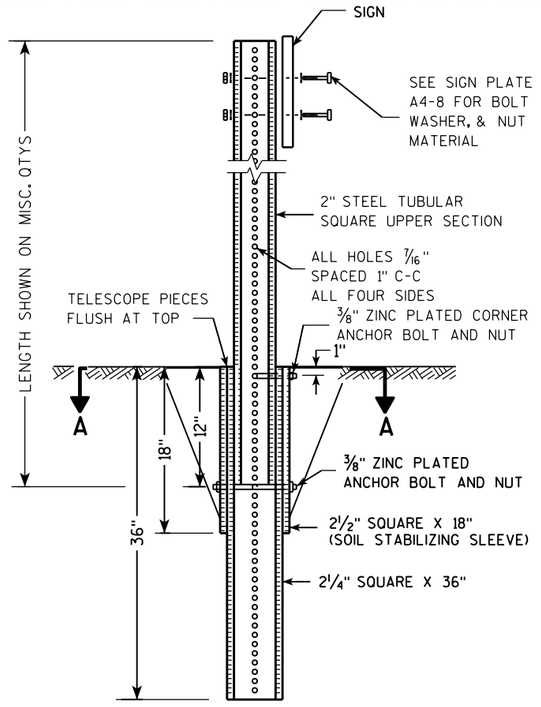
2 1/2 " SQUARE
12 GAUGE
OMNI-DIRECTIONAL
PERFORATED
SOIL STABILIZING SLEEVE
GALVANIZED FINISH

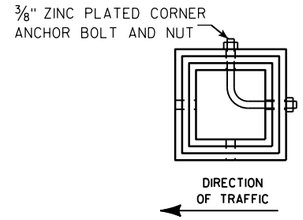


DETAIL OF TUBULAR STEEL SIGN POST
(IN POURED CONCRETE OR ASPHALT)



DETAIL OF TUBULAR STEEL SIGN POST
(IN LOCATIONS OTHER THAN POURED CONCRETE OR ASPHALT)





SECTION A-A

Area of Sign Installation (Sq. Ft.)	Number of Required Posts
9 or less	1
Greater than 9 less than or equal to 18	2
Greater than 18 less than or equal to 27	3

Signs wider than 3 feet or larger than 9 sq. ft shall be mounted on multiple posts (see above table).

TUBULAR STEEL
SIGN POST
A4-9

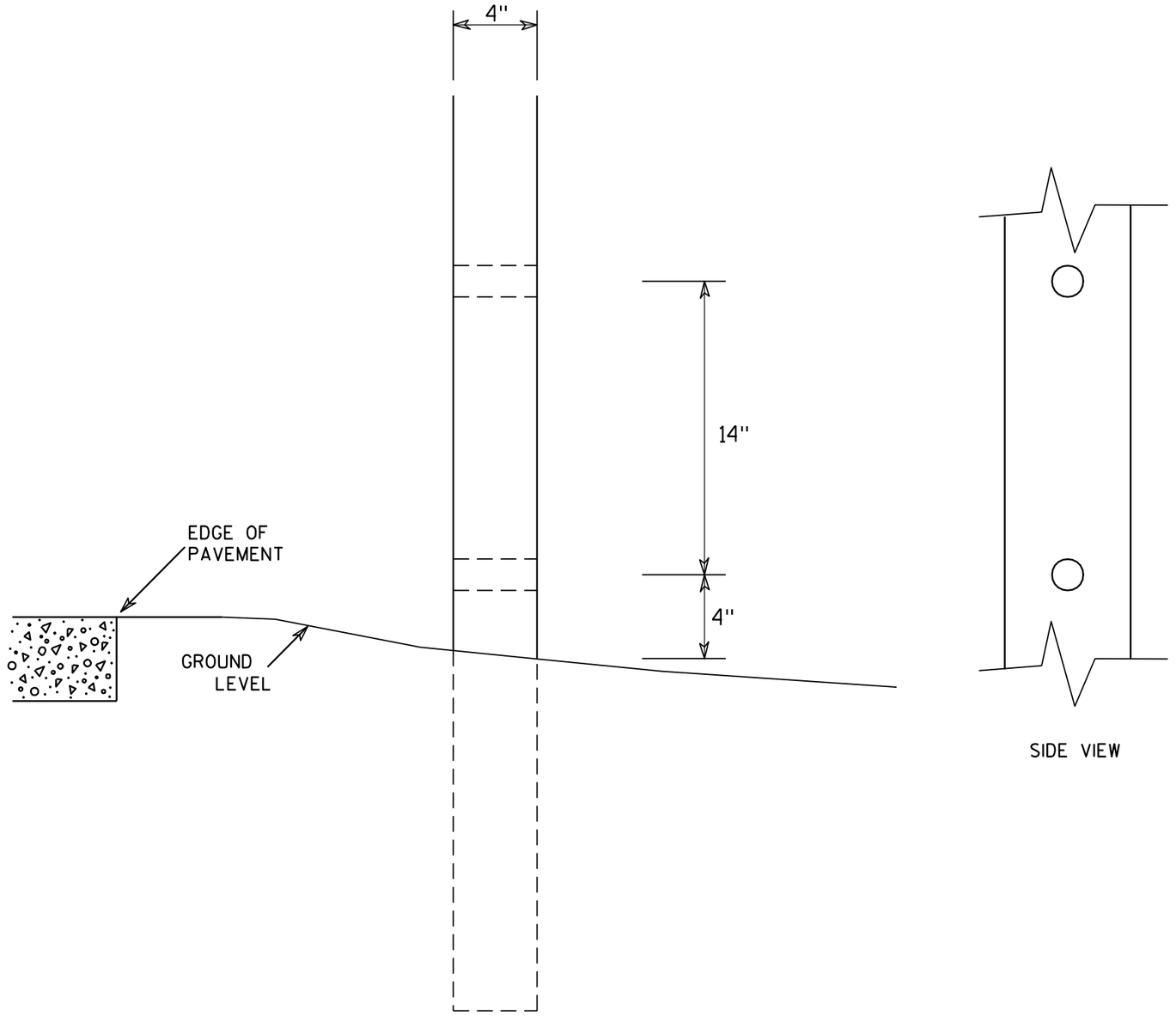
WISCONSIN DEPT OF TRANSPORTATION

APPROVED Matthew R Rauch
for State Traffic Engineer

DATE 2/05/15 PLATE A4-9.9

PROJECT NO:	HWY:	COUNTY:		SHEET NO:	E

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SIDE VIEW

GENERAL NOTES

1. All 4 x 6 Wood Posts shall be modified by having two 1½" diameter holes drilled perpendicular to the roadway centerline.

7

7

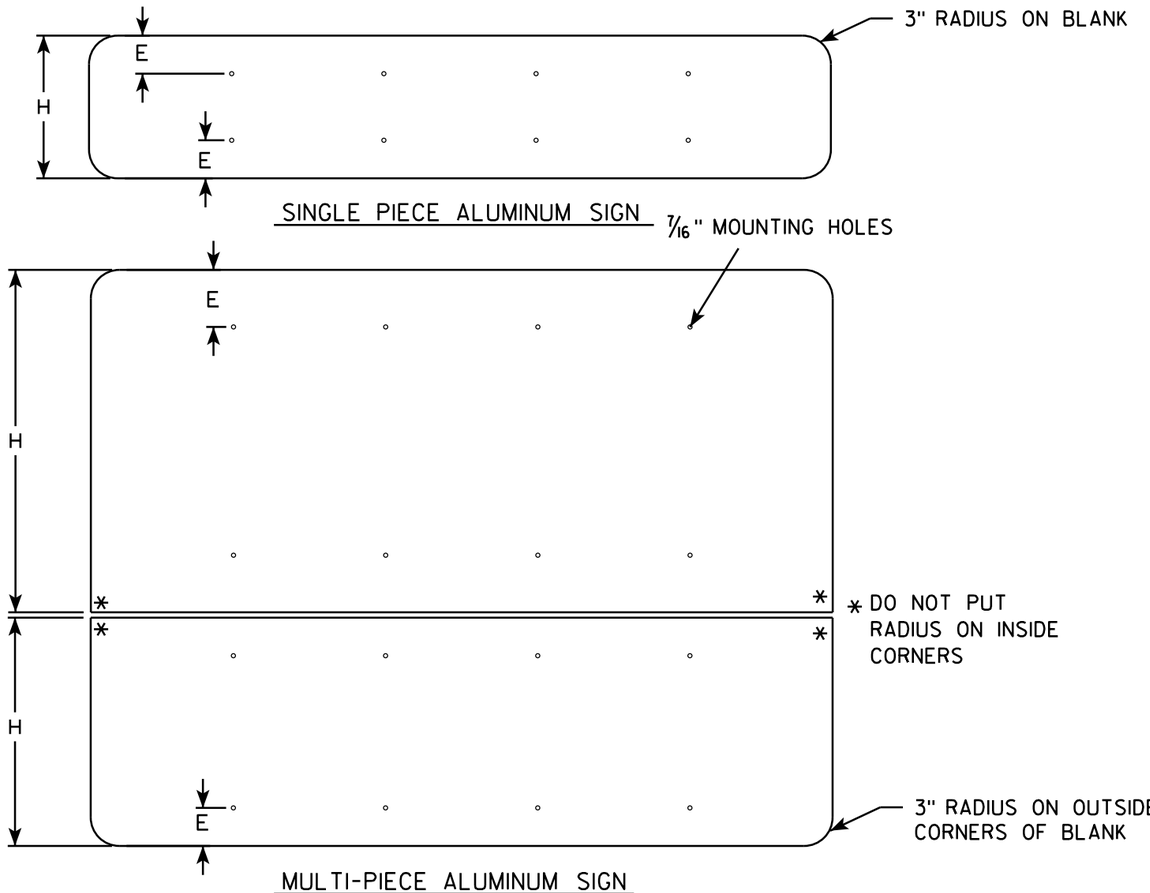
4 X 6 WOOD POST MODIFICATIONS

WISCONSIN DEPT OF TRANSPORTATION

APPROVED Chester J Spang for State Traffic Engineer

DATE 3/27/97 PLATE NO. A4-11.2

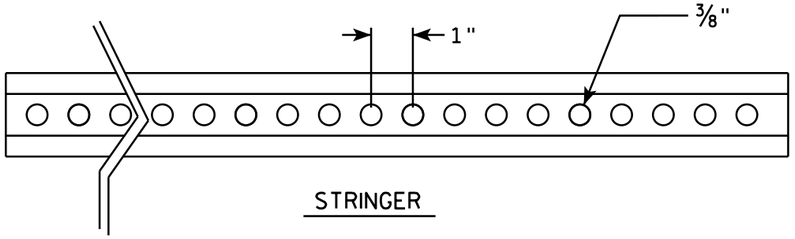
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GENERAL NOTES

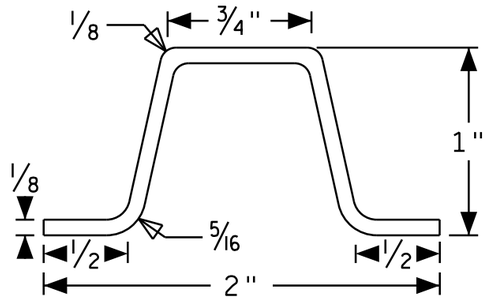
- ALL SIGNS OVER 60" IN WIDTH SHALL HAVE A 3" RADIUS ON THE OUTSIDE CORNERS OF THE ALUMINUM BLANK.
- MOUNTING HOLES SHALL BE 7/16" DIAMETER.
- SEE CHART FOR HOLE SPACING REQUIREMENTS
- FOR SIGN PANELS WITH DIMENSION (H) 36" AND OVER, DIMENSION E SHALL BE 6"
- FOR SIGN PANELS WITH DIMENSION (H) UNDER 36", DIMENSION E SHALL BE 4"
- SIGN STRINGER MATERIAL SHALL CONSIST OF STEEL CHANNEL POST SECTIONS, WEIGHING 1.12 LBS/FT IN ACCORDANCE WITH SECTION 633.2.1 OF THE STANDARD SPECIFICATIONS FOR HIGHWAY AND STRUCTURE CONSTRUCTION.
- SEE SIGN PLATE A4-8 FOR SIGN STRINGER BOLTING REQUIREMENTS.

SIGN WIDTH	STRINGER WIDTH	POSTS	HOLE SPACING	MOUNTING HOLES
78"	72"	2	16"	15" 31" 47" 63"
84"	72"	2	17"	16½" 33½" 50½" 67½"
90"	72"	2	18"	18" 36" 54" 72"
96"	90"	2	19"	19½" 38½" 57½" 76½"
102"	90"	2	20"	21" 41" 61" 81"
108"	90"	2	21"	22½" 43½" 64½" 85½"
114"	108"	3	15"	12" 27" 42" 57" 72" 87" 102"
120"	108"	3	16"	12" 28" 44" 60" 76" 92" 108"
126"	108"	3	17"	12" 29" 46" 63" 80" 97" 114"
132"	126"	3	18"	12" 30" 48" 66" 84" 102" 120"
138"	126"	3	19"	12" 31" 50" 69" 88" 107" 126"
144"	126"	3	20"	12" 32" 52" 72" 92" 112" 132"

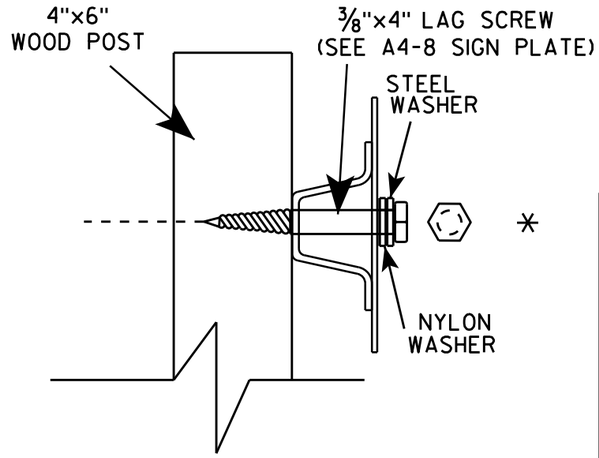


STRINGER

CROSS SECTION VIEW OF CHANNEL



POST MOUNTING



SIGN STRINGER MOUNTING REQUIREMENTS

WISCONSIN DEPT OF TRANSPORTATION

APPROVED Matthew R Rauch

for State Traffic Engineer

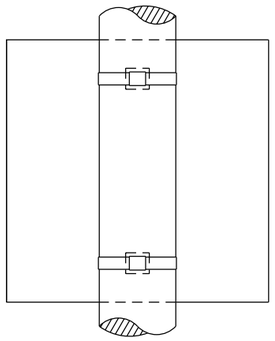
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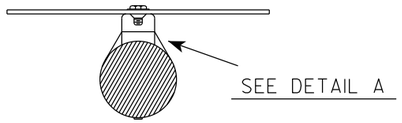
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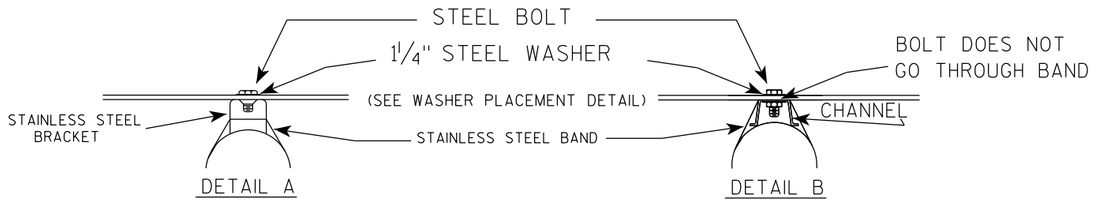
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BANDING

SINGLE SIGN



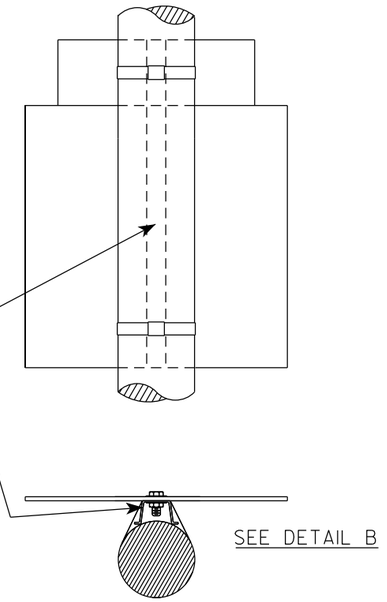




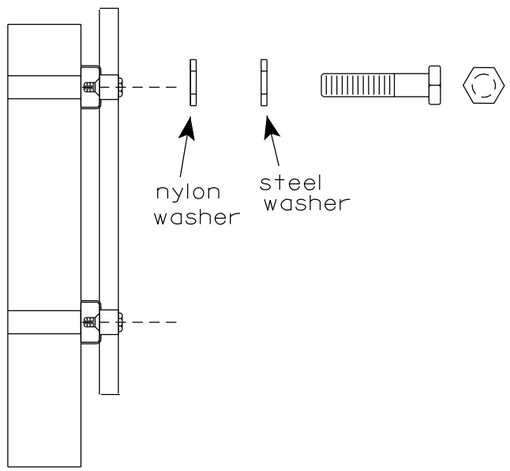
GENERAL NOTES

1. Any sign over 3 feet in width shall use the V-Block banding method. See A5-10 standard plate.
2. Signs 3 feet or greater in height shall have three bracket bands installed. Signs less than 3 feet in height shall have two bracket bands installed.
3. Banding and assembly bracket shall be stainless steel. All bands shall be ¾" in width and 0.025" thickness.
4. ALL SIGN MOUNTING BOLTS AND WASHERS SHALL BE EITHER:
   a. Hot dip or mechanically galvanized in accordance with ASTM Designation: A 153, Class D
   b. Electro-galvanized in accordance with ASTM designation: B 633, Type III, SC 3

"J" ASSEMBLY



WASHER PLACEMENT



WASHERS (ALL POSTS) -
1-1/4" O.D. X ⅜" I.D. X 1/16" STEEL
1-1/4" O.D. X ⅜" I.D. X .080 NYLON
FOR ALL TYPE H SIGNS

STANDARD SIGN
SIGN BANDING DETAILS

WISCONSIN DEPT OF TRANSPORTATION

APPROVED Matthew R Rauch
for State Traffic Engineer

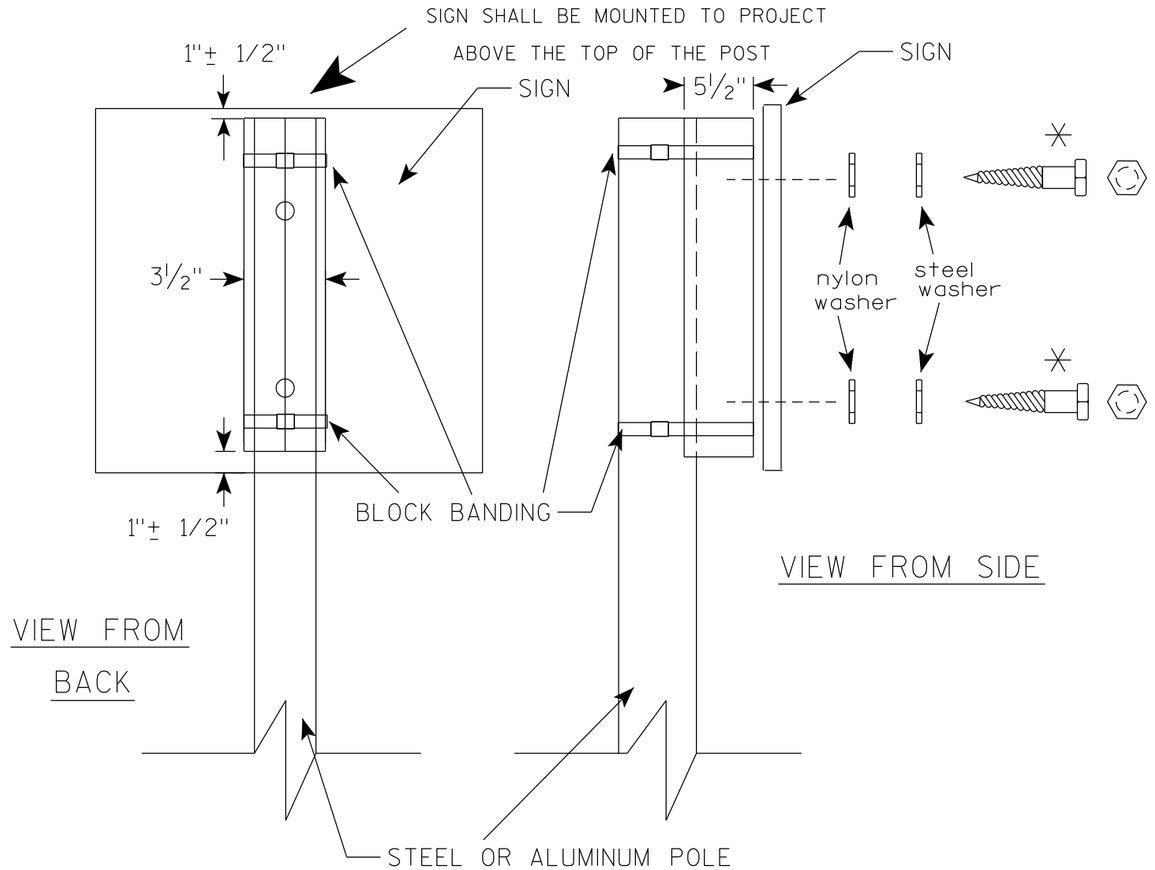
DATE 6/10/19 PLATE NO. A5-9.4

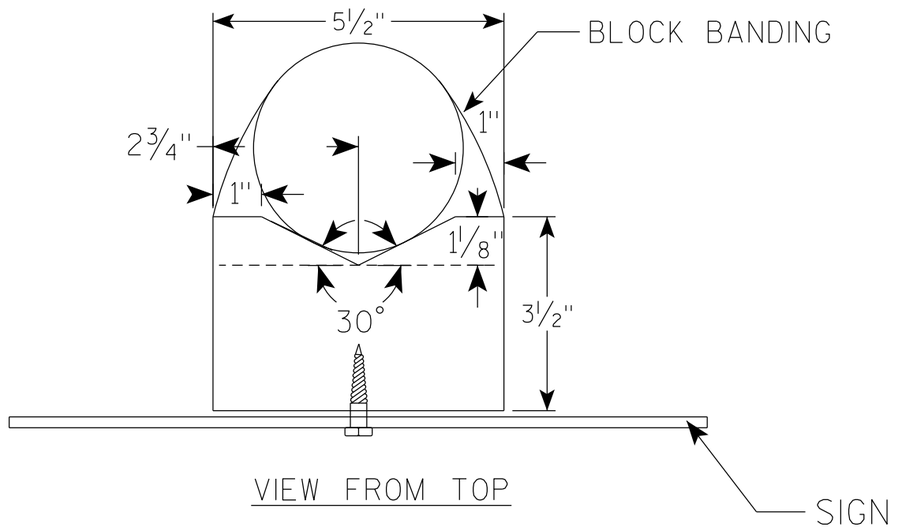
PROJECT NO:	HWY:	COUNTY:		SHEET NO: 148	E

FILE NAME : C:\CAEfiles\Projects\tr_stdplate\A59.dgn PLOT DATE : 10-JUN 2019 4:10 PLOT BY : mscj9h PLOT NAME : PLOT SCALE : $$.....plotscale.....$$ WISDOT/CADDS SHEET 42

7

7





GENERAL NOTES

1. WOOD 4"X6" POST MATERIAL SHALL CONFORM TO 507.2.2 OF THE WisDOT STANDARD SPECIFICATIONS
2. BLOCK BANDING AND CLIPS SHALL BE STAINLESS STEEL, ¾" WIDTH AND 0.025" THICKNESS
3. SIGNS 3' OR GREATER IN HEIGHT SHALL UTILIZE 3 BLOCK BANDS. SIGNS UNDER 3' IN HEIGHT SHALL UTILIZE 2 BLOCK BANDS
4. ACTUAL NUMBER OF FASTENERS PER SIGN VARIES WITH THE SIGN AREA, BUT NORNALLY THERE ARE TWO. FOR SIGNS GREATER THAN 9 S.F. 3 FASTENERS SHALL BE USED.
5. ALL SIGN MOUNTING BOLTS AND WASHERS SHALL BE EITHER:
   a. Hot dip or mechanically galvanized in accordance with ASTM Designation: A 153, Class D
   b. Electro-galvanized in accordance with ASTM Designation : B 633, TYPE III, SC 3
6. ALL BOLTS SHALL HAVE HEXAGONAL HEADS.
7. STEEL WASHERS SHALL BE 1¼" O.D. X ⅜" I.D. X 1/16"
8. NYLON WASHERS SHALL BE 1¼" O.D. X ⅜" I.D. X .080 FOR TYPE H OR TYPE F FACE SIGN

✳ LAG BOLTS SHALL BE ⅜" X 2½"

BLOCK BANDING DETAIL (V-BLOCK OPTION)

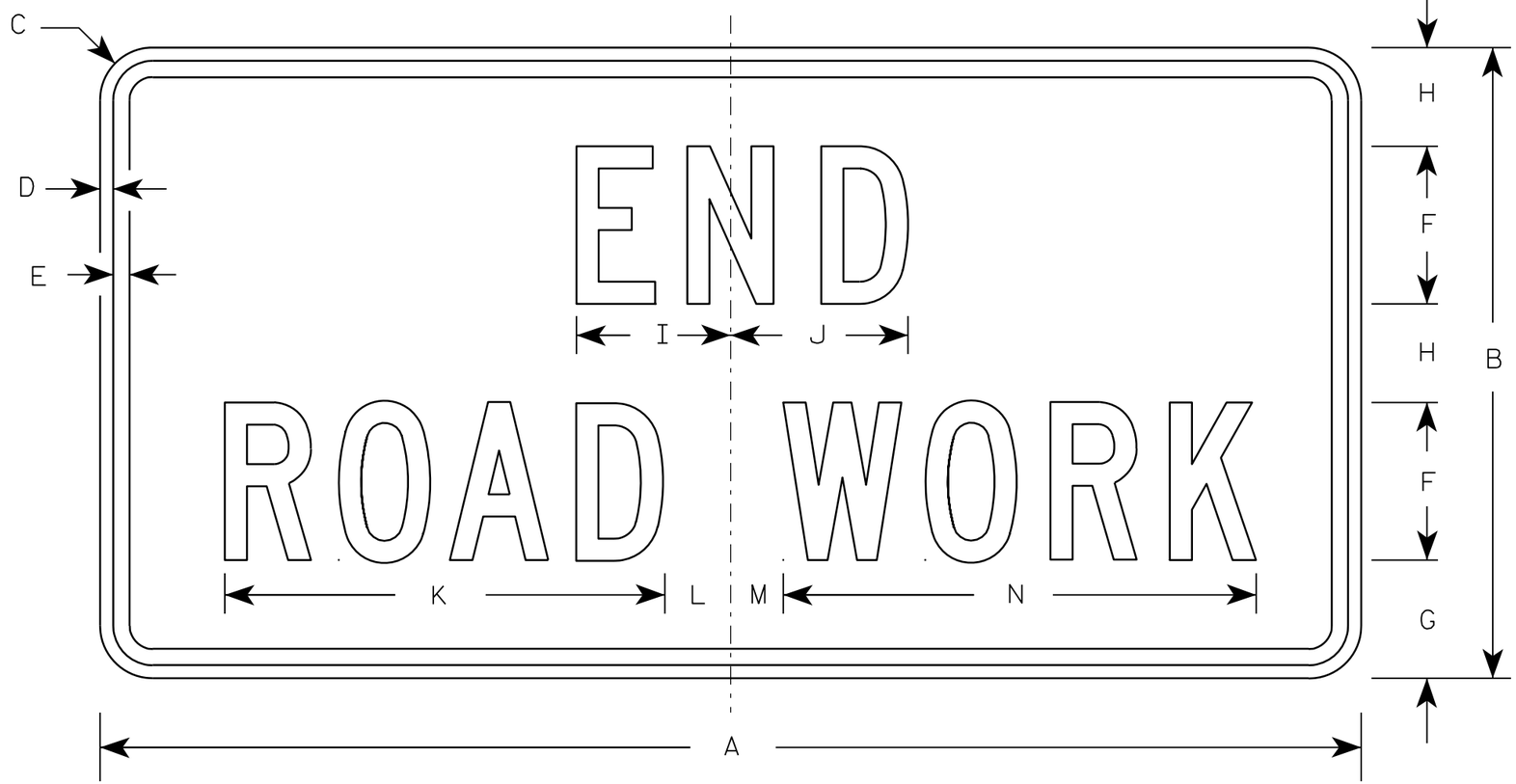
WISCONSIN DEPT OF TRANSPORTATION

APPROVED Matthew R Rauch
For State Traffic Engineer

DATE 6/10/19 PLATE NO. A5-10.2

PROJECT NO: | SHEET NO: 149 | E

FILE NAME : C:\CAEfiles\Projects\tr_stdplate\A510.dgn PLOT DATE : 10-JUN 2019 4:15 PLOT BY : mscj9h
WISDOT/CADDS SHEET 42



G20-2A

NOTES

1. Sign is Type II - Type F Reflective - reference WIS DOT Standard Specification for HIGHWAY and STRUCTURE CONSTRUCTION latest edition.
2. Color:
   Background - Orange
   Message - Black
3. Message Series - C
4. Corners may be square or rounded when base material is plywood but borders shall be rounded as shown. When base material is metal, the corners and borders shall be rounded.

Metric equivalent for this sign is:

SIZE	
1	900 mm X 450 mm
2	1200 mm X 600 mm
3	1200 mm X 600 mm
4	1200 mm X 600 mm
5	1200 mm X 600 mm

SIZE	A	B	C	D	E	F	G	H	I	J	K	L	M	N	O	P	Q	R	S	T	U	V	W	X	Y	Z	Area sq. ft.	Area m2
1	36	18	1 1/8	3/8	1/2	4	3 3/4	2 1/2	4 1/8	4 1/8	11 1/8	2	1	12 1/8													4.5	0.41
2	48	24	1 1/2	1/2	5/8	6	4 1/2	3 3/4	5 7/8	6 3/4	16 3/4	2 1/2	1 3/4	18 1/2													8.0	0.72
3	48	24	1 1/2	1/2	5/8	6	4 1/2	3 3/4	5 7/8	6 3/4	16 3/4	2 1/2	1 3/4	18 1/2													8.0	0.72
4	48	24	1 1/2	1/2	5/8	6	4 1/2	3 3/4	5 7/8	6 3/4	16 3/4	2 1/2	1 3/4	18 1/2													8.0	0.72
5	48	24	1 1/2	1/2	5/8	6	4 1/2	3 3/4	5 7/8	6 3/4	16 3/4	2 1/2	1 3/4	18 1/2													8.0	0.72

STANDARD SIGN
G20-2A

WISCONSIN DEPT OF TRANSPORTATION

APPROVED Matthew R Rauch
for State Traffic Engineer

DATE 9/30/09 PLATE NO. G20-2A.8

PROJECT NO:	HWY:	COUNTY:		SHEET NO: 150	E

NOTES

1. Sign is Type II- Type F Reflective
2. Color:
   Background - Orange
   Message - Black
3. Message Series - E
4. Material shall be .040 aluminmum



G20-60

SIZE	A	B	C	D	E	F	G	H	I	J	K	L	M	N	O	P	Q	R	S	T	U	V	W	X	Y	Z	Area sq. ft.
1																											
2																											
3																											
4	108	24				12	6	14 7/8	78 1/4																		18.0
5																											

STANDARD SIGN
G20-60

WISCONSIN DEPT OF TRANSPORTATION

APPROVED Matthew R Rauch
for State Traffic Engineer

DATE 5/13/15 PLATE NO G20-60.1

PROJECT NO: | HWY: | COUNTY: | | SHEET NO: E

FILE NAME : C:\CAEfiles\Projects\tr_stdplate\G2060.DGN PLOT DATE : 13-MAY-2015 08:46 PLOT BY : mscj9h PLOT NAME : PLOT SCALE : 20.431338:1.000000 WISDOT/CADDS SHEET 42

NOTES

1. Sign is Type II - Type F Reflective
2. Color:
   Background - Orange
   Message - Black
3. Message Series - E



G20-61

SIZE	A	B	C	D	E	F	G	H	I	J	K	L	M	N	O	P	Q	R	S	T	U	V	W	X	Y	Z	Area sq. ft.
1																											
2																											
3																											
4	120	30	6		2	12	9	21	78 1/4	20 3/4																	25.0
5																											

STANDARD SIGN
G20-61

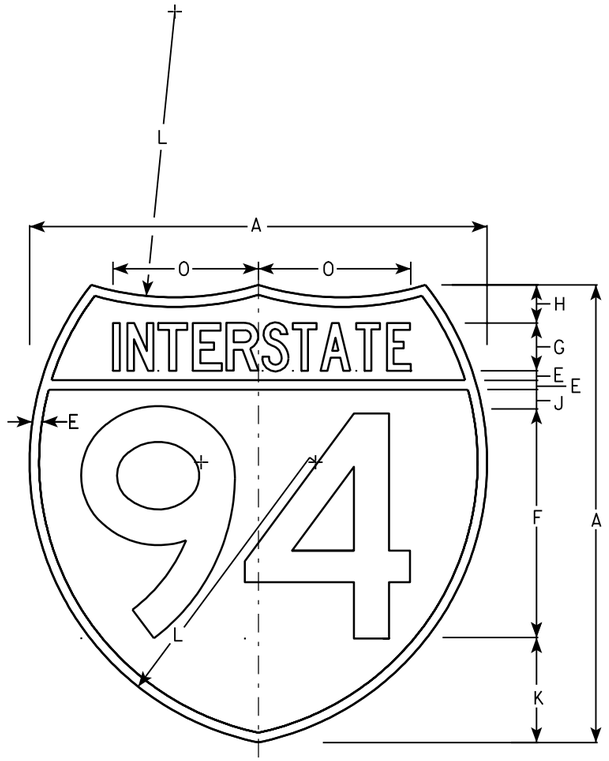
WISCONSIN DEPT OF TRANSPORTATION

APPROVED Matthew R Rauch
for State Traffic Engineer

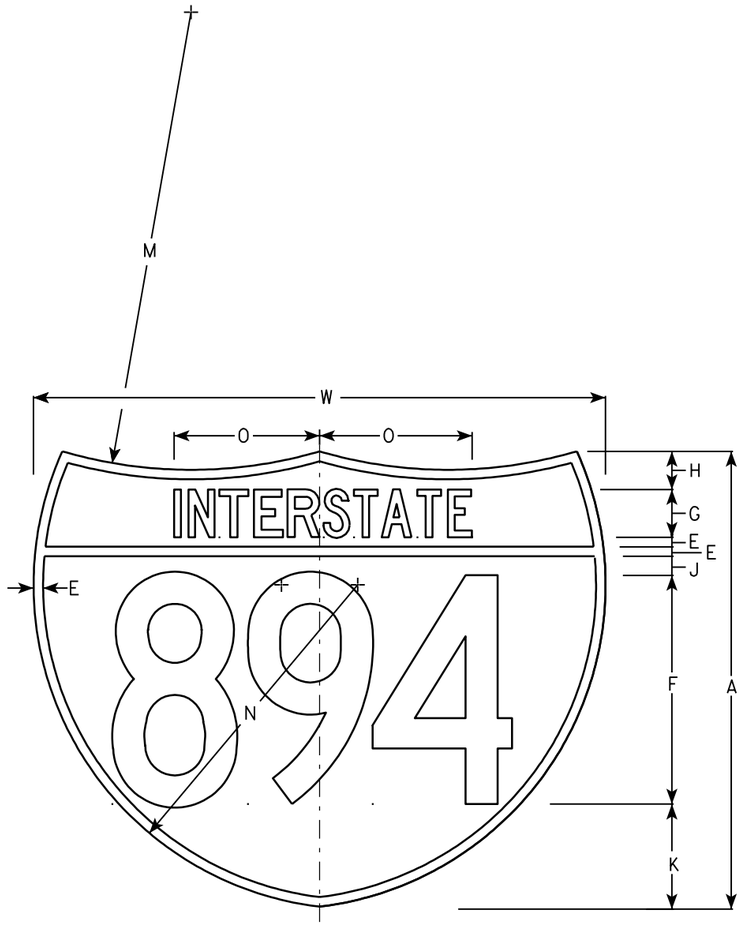
DATE 5/07/15 PLATE NO G20-61.1

PROJECT NO: | HWY: | COUNTY: | SHEET NO: E

FILE NAME : C:\CAEFiles\Projects\tr_stdplate\G2061.DGN PLOT DATE : 07-MAY-2015 13:47 PLOT BY : mscsja PLOT NAME : PLOT SCALE : 20.431338:1.000000 WISDOT/CADDS SHEET 42



M1-1



M1-1A

NOTES

1. Sign is Type II - See Note 6 - reference WIS DOT Standard Specification for HIGHWAY and STRUCTURE CONSTRUCTION latest edition.
2. Color:
   Background - Top Red - Bottom Blue (See Note 6)
   Message - White - See Note 6
3. Message Series - See note 5
4. Substitute appropriate numerals & ajust spacing as per plate A10-1.
5. M1-1 - Numerals - D
   Interstate - C
   M1-1A - All copy - C
6. Permanent Signs
   Message - Type H Reflective
   Detour or other temporary signs
   Background - Reflective
   Message - Reflective

7

7

Metric equivalent for these signs are:

SIZE	M1-1	SIZE	M1-1A
1			
2	600 mm X 600 mm	2	600 mm X 750 mm
3	900 mm X 900 mm	3	900 mm X 1125 mm
4	900 mm X 900 mm	4	900 mm X 1125 mm
5	900 mm X 900 mm	5	900 mm X 1125 mm

SIZE	A	B	C	D	E	F	G	H	I	J	K	L	M	N	O	P	Q	R	S	T	U	V	W	X	Y	M1-1 Area sq. ft.	M1-1A Area sq. ft.	M1-1 Area m2	M1-1A Area m2
1																													
2	24				1/2	12	2 1/2	2		1	5 1/2	15	24	17	7 7/8								30			3.13	3.91	.36	.46
3	36				3/4	18	3 3/4	3		1 1/2	8 1/4	22 1/2	36	25 1/2	11 3/4								45			7.03	8.79	.81	1.05
4	36				3/4	18	3 3/4	3		1 1/2	8 1/4	22 1/2	36	25 1/2	11 3/4								45			7.03	8.79	.81	1.05
5	36				3/4	18	3 3/4	3		1 1/2	8 1/4	22 1/2	36	25 1/2	11 3/4								45			7.03	8.79	.81	1.05

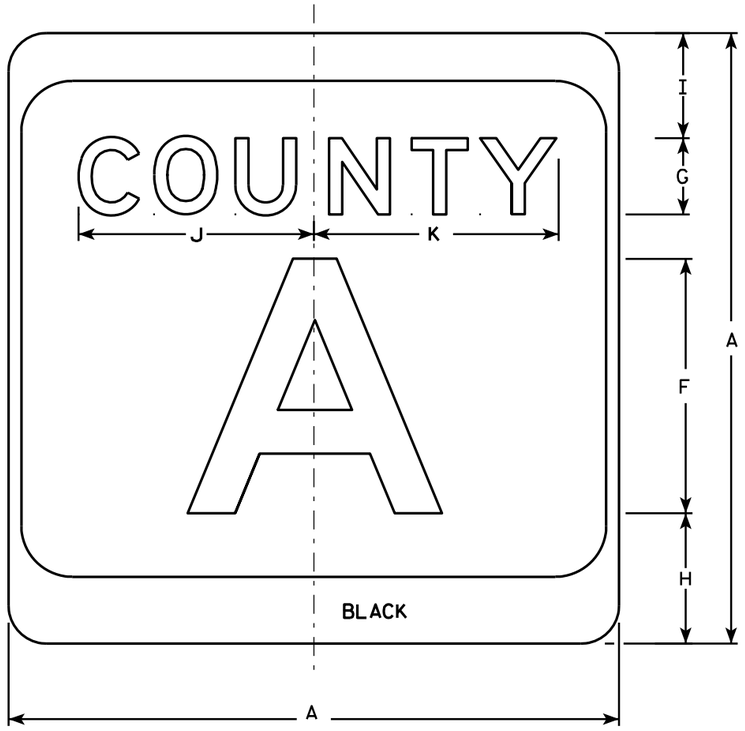
INTERSTATE ROUTE MARKER
M1-1 FOR ASSEMBLIES

WISCONSIN DEPT OF TRANSPORTATION

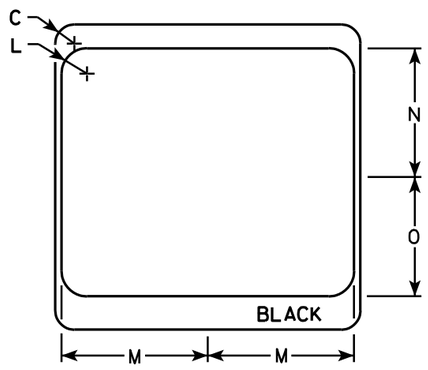
APPROVED Matthew R Rauch
for State Traffic Engineer

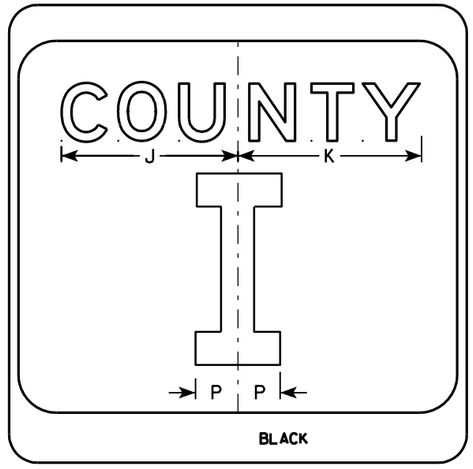
DATE 08/23/05 PLATE NO. M1-1.8

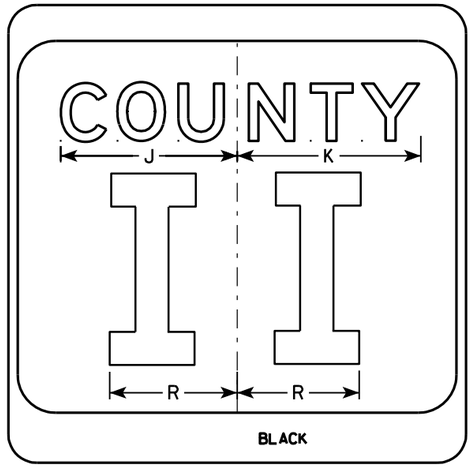
PROJECT NO:	HWY:	COUNTY:		SHEET NO: 153	E



M1-5A







NOTES

1. Sign is Type II - see Note 7 - reference WIS DOT Standard Specification for HIGHWAY and STRUCTURE CONSTRUCTION latest edition.
2. Color:
   Background - White & Black - See Note 7
   Message - Black
3. Message Series - see Note 5
4. Corners may be square or rounded when base material is plywood but borders shall be rounded as shown. When base material is metal, the corners and borders shall be rounded.
5. Message Series E for 1 letter.
   Message Series D for 2 letters unless message is too big then Series C.
   Message Series C for 3 letters unless message is too big then Series B.
6. Substitute appropriate letters & optically center to achieve proper balance.
7. Permanent Signs
   Background - Type H Reflective
   Detour or temporary Signs
   Background - Reflective

SIZE	A	B	C	D	E	F	G	H	I	J	K	L	M	N	O	P	Q	R	S	T	U	V	W	X	Y	Z	Area sq. ft.
1																											
2	24		1 1/2			10	3	5 1/8	4 1/8	9 1/4	9 5/8	2	11 1/2	10 1/8	9 3/8	2 1/4		6 5/8									4.0
3	36		2 1/4			16	4	7 5/8	5 5/8	12 1/4	12 7/8	3	17 1/8	15 1/4	14	3 3/8		10									9.0
4	36		2 1/4			16	4	7 5/8	5 5/8	12 1/4	12 7/8	3	17 1/8	15 1/4	14	3 3/8		10									9.0
5	36		2 1/4			16	4	7 5/8	5 5/8	12 1/4	12 7/8	3	17 1/8	15 1/4	14	3 3/8		10									9.0

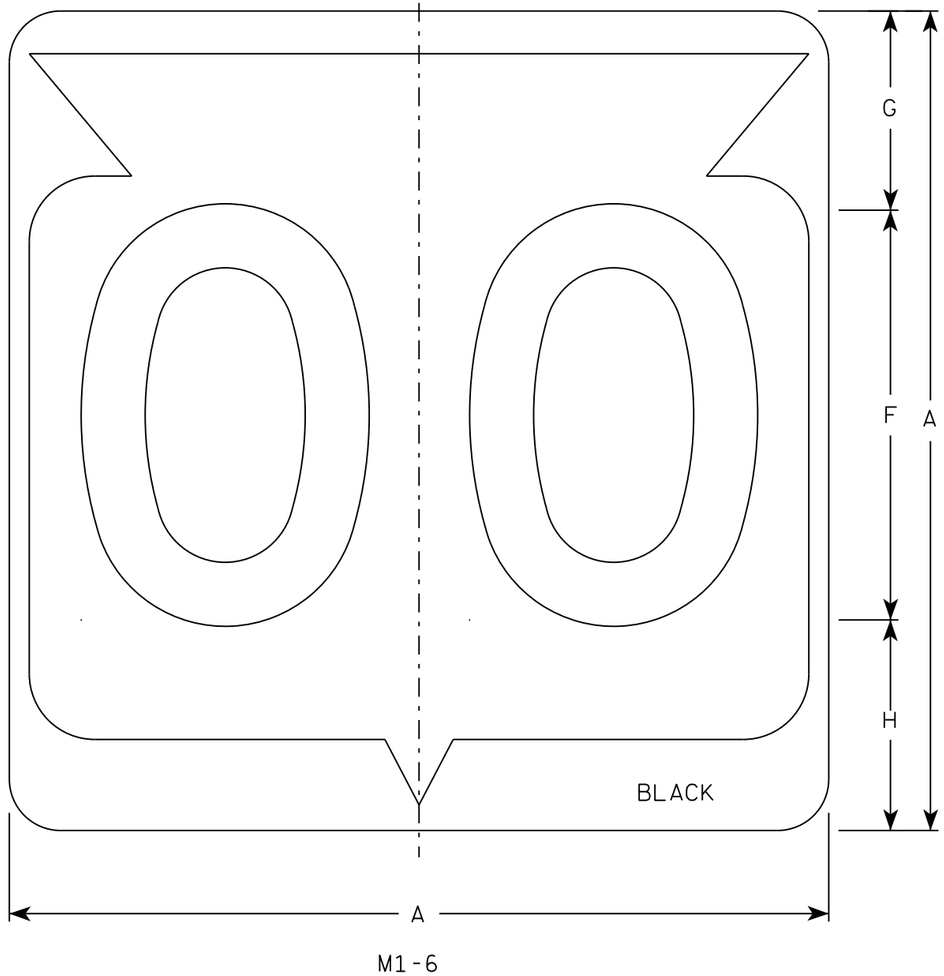
CTH MARKER
M1-5A FOR ASSEMBLIES

WISCONSIN DEPT OF TRANSPORTATION

APPROVED Matthew R Rauch
for State Traffic Engineer

DATE 9/27/11 PLATE NO. M1-5A.8

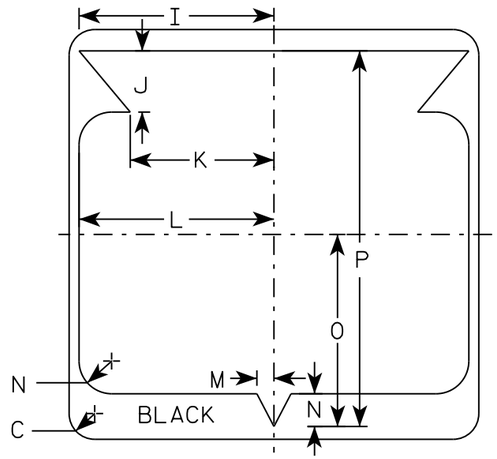
PROJECT NO:	HWY:	COUNTY:		SHEET NO: 154	E



M1-6

NOTES

1. Sign is Type II - Type H Reflective
2. Color:
   Background - White
   Message - Black
3. Message Series - D except 3 number signs Series C
4. Corners may be square or rounded when base material is plywood but borders shall be rounded as shown. When base material is metal, the corners and borders shall be rounded.



SIZE	A	B	C	D	E	F	G	H	I	J	K	L	M	N	O	P	Q	R	S	T	U	V	W	X	Y	Z	Area sq. ft.
1																											
2	24		1 1/2			12	5 1/2	6 1/2	10 1/4	2 1/2	8 7/8	11 1/2	1	1 7/8	11 1/4	21 7/8											4.0
3	36		2 1/4			18	8 3/4	9 1/4	15 3/8	5 3/8	12 5/8	17 1/8	1 1/2	2 7/8	16 7/8	33											9.0
4	36		2 1/4			18	8 3/4	9 1/4	15 3/8	5 3/8	12 5/8	17 1/8	1 1/2	2 7/8	16 7/8	33											9.0
5	36		2 1/4			18	8 3/4	9 1/4	15 3/8	5 3/8	12 5/8	17 1/8	1 1/2	2 7/8	16 7/8	33											9.0

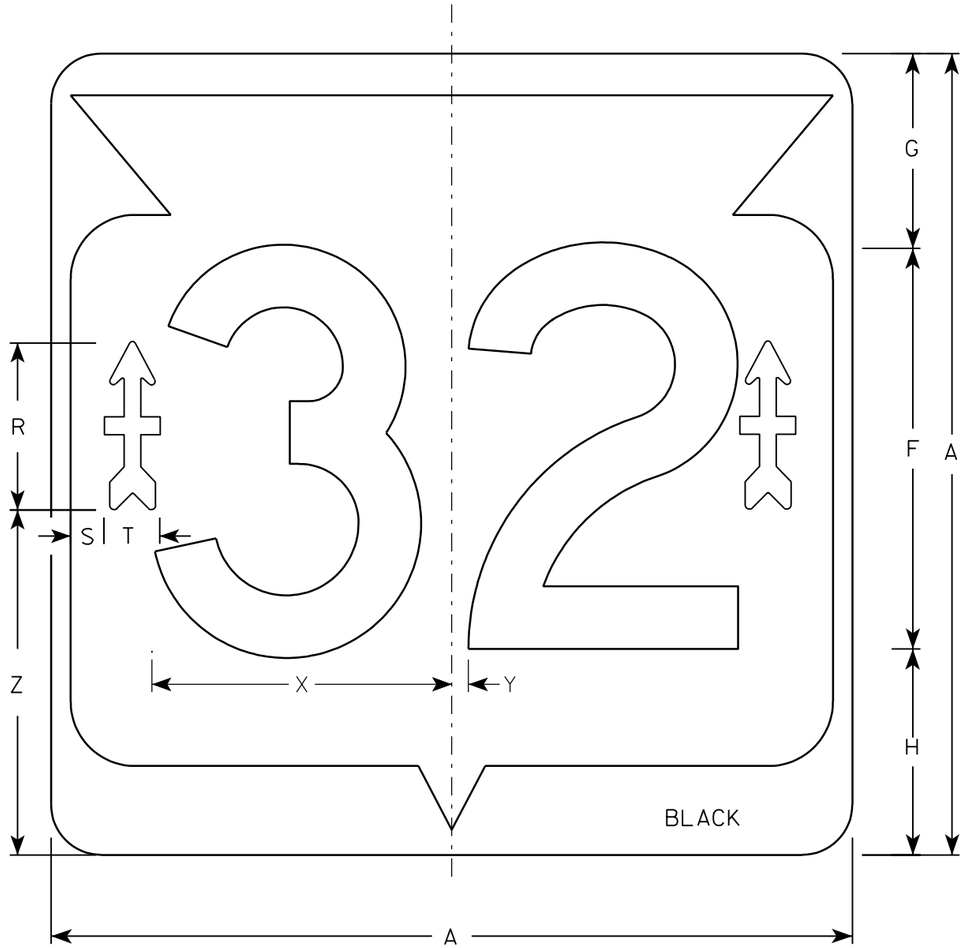
STATE ROUTE MARKER M1-6 FOR ASSEMBLIES

WISCONSIN DEPT OF TRANSPORTATION

APPROVED Matthew R Rauch for State Traffic Engineer

DATE 3/16/18 PLATE NO. M1-6.10

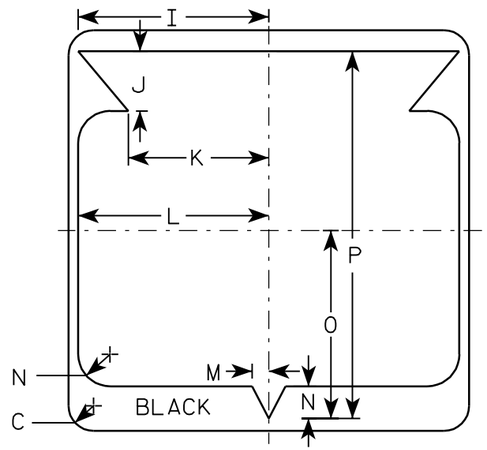
PROJECT NO: | HWY: | COUNTY: | SHEET NO: 155 | E



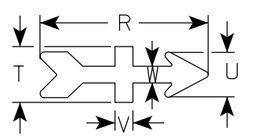
M1-6B

NOTES

1. Sign is Type II - Type H - reference WIS DOT Standard Specification for HIGHWAY and STRUCTURE CONSTRUCTION latest edition.
2. Color:
   Background - White & Black
   Message - Black
   Arrow - Type H Reflective Red
3. Message Series - D
4. Corners may be square or rounded when base material is plywood but borders shall be rounded as shown. When base material is metal, the corners and borders shall be rounded.



32nd DIVISION ARROW
ACTUAL SIZE



Metric equivalent for this sign is:

SIZE	
1	
2	600 mm X 600 mm
3	900 mm X 900 mm
4	900 mm X 900 mm
5	900 mm X 900 mm

SIZE	A	B	C	D	E	F	G	H	I	J	K	L	M	N	O	P	Q	R	S	T	U	V	W	X	Y	Z	Area sq. ft.	Area m²
1																												
2	24		1 ½			12	5 ½	6 ½	10 ¼	2 ½	8 ⅞	11 ½	1	1 ⅞	11 ¼	21 ⅞		5 ⅛	¾	1 ⅞	1 ½	⅝	⅝	9	½	10 ½	4.0	.36
3	36		2 ¼			18	8 ¾	9 ¼	15 ⅜	5 ⅜	12 ⅝	17 ⅛	1 ½	2 ⅞	16 ⅞	33		7 ½	1 ½	2 ½	2	⅞	¾	13 ½	¾	15 ½	9.0	.81
4	36		2 ¼			18	8 ¾	9 ¼	15 ⅜	5 ⅜	12 ⅝	17 ⅛	1 ½	2 ⅞	16 ⅞	33		7 ½	1 ½	2 ½	2	⅞	¾	13 ½	¾	15 ½	9.0	.81
5	36		2 ¼			18	8 ¾	9 ¼	15 ⅜	5 ⅜	12 ⅝	17 ⅛	1 ½	2 ⅞	16 ⅞	33		7 ½	1 ½	2 ½	2	⅞	¾	13 ½	¾	15 ½	9.0	.81

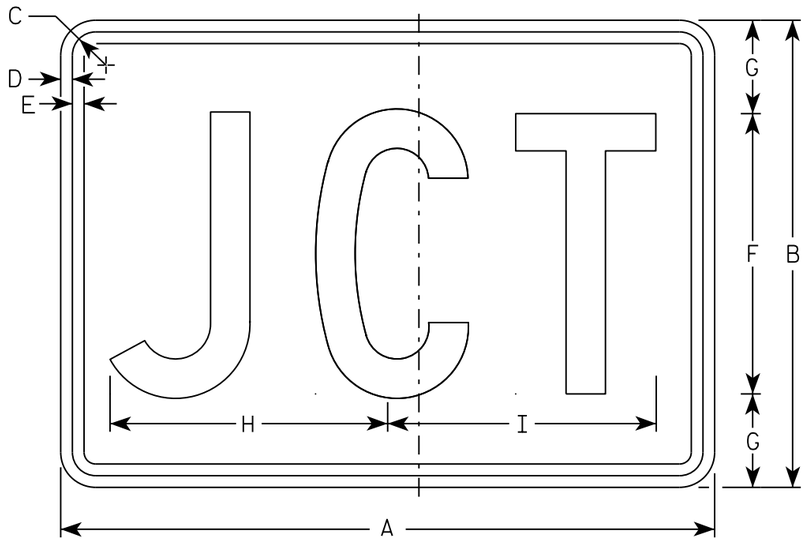
STATE ROUTE MARKER "32"
M1-6B FOR ASSEMBLIES

WISCONSIN DEPT OF TRANSPORTATION

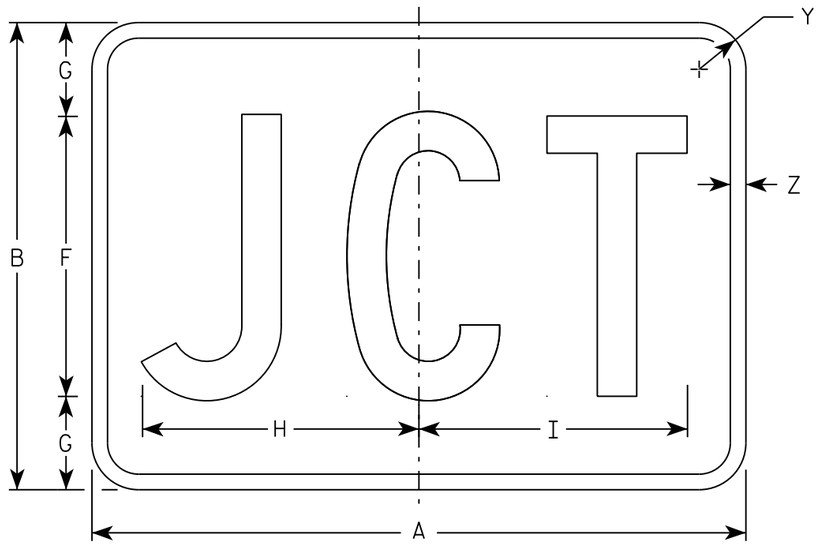
APPROVED Matthew R Rauch for State Traffic Engineer

DATE 12/5/05 PLATE NO. M1-6B.2

PROJECT NO: | HWY: | COUNTY: | SHEET NO: 156 | E



M2-1
MM2-1
MP2-1



MB2-1
MK2-1
MN2-1
MR2-1

NOTES

1. Sign is Type II - Type H
2. Color:
   Background - See note 5
   Message - See note 5
3. Message Series - C
4. Corners may be square or rounded when base material is plywood but borders shall be rounded as shown. When base material is metal, the corners and borders shall be rounded.
5. M2-1 Background - White
   Message - Black
   MB2-1 Background - Blue
   Message - White
   MK2-1 Background - Green
   Message - White
   MM2-1 Background - White
   Message - Green
   MN2-1 Background - Brown
   Message - White
   MP2-1 Background - White
   Message - Blue
   MR2-1 Background - Brown
   Message - Yellow

SIZE	A	B	C	D	E	F	G	H	I	J	K	L	M	N	O	P	Q	R	S	T	U	V	W	X	Y	Z	Area sq. ft.
1																											
2	21	15	1 1/8	3/8	3/8	9	3	8 7/8	8 5/8																1 1/2	1/2	2.20
3	30	21	1 1/8	3/8	3/8	13	4	12 7/8	12 3/8																1 1/2	1/2	4.40
4	30	21	1 1/8	3/8	3/8	13	4	12 7/8	12 3/8																1 1/2	1/2	4.40
5	30	21	1 1/8	3/8	3/8	13	4	12 7/8	12 3/8																1 1/2	1/2	4.40

STANDARD SIGN
M2-1

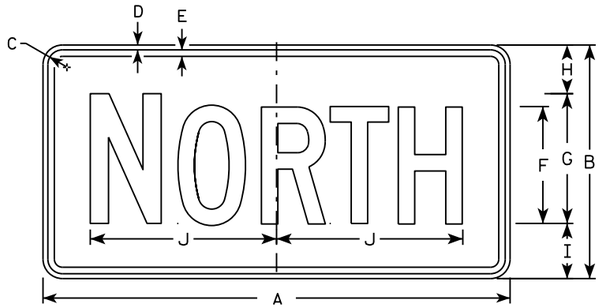
WISCONSIN DEPT OF TRANSPORTATION

APPROVED Matthew R Rauch
for State Traffic Engineer

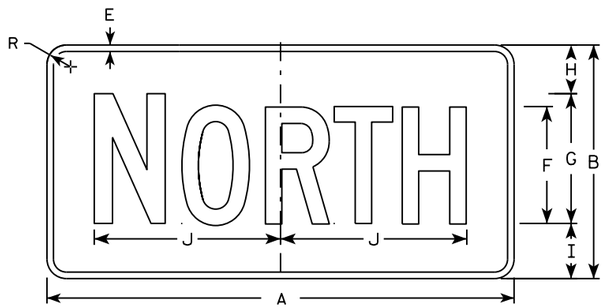
DATE 10/15/15 PLATE 157 12-1.12

PROJECT NO:	HWY:	COUNTY:		SHEET NO:	E

FILE NAME : C:\CAEfiles\Projects\tr_stdplate\M21.DGN PLOT DATE : 01-DEC-2015 17:54 PLOT BY : $$ plotuser $$ PLOT NAME : PLOT SCALE : 4.864603:1.000000



M3-1
MM3-1
MP3-1



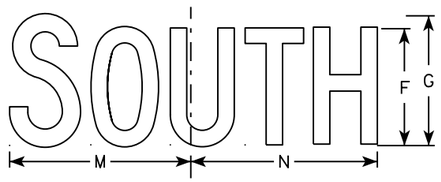
MB3-1
MK3-1
MN3-1



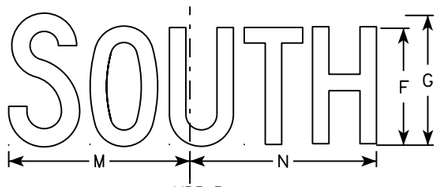
M3-2
MM3-2
MP3-2



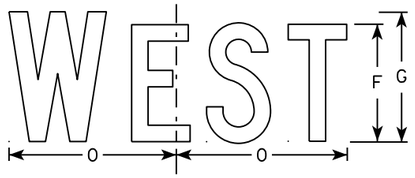
MB3-2
MK3-2
MN3-2



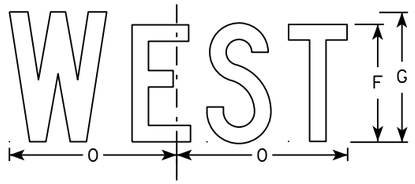
M3-3
MM3-3
MP3-3



MB3-3
MK3-3
MN3-3



M3-4
MM3-4
MP3-4



MB3-4
MK3-4
MN3-4

NOTES

1. All Signs Type II - Type H
2. Color:
   Background - See note 5
   Message - See note 5
3. Message Series - C
4. Corners may be square or rounded when base material is plywood but borders shall be rounded as shown. When base material is metal, the corners and borders shall be rounded.
5. M3-1 thru M3-4 Background - White
   Message - Black
   MB3-1 thru MB3-4 Background - Blue
   Message - White
   MK3-1 thru MK3-4 Background - Green
   Message - White
   MM3-1 thru MM3-4 Background - White
   Message - Green
   MN3-1 thru MN3-4 Background - Brown
   Message - White
   MP3-1 thru MP3-4 Background - White
   Message - Blue
6. Note the first letter of each direction is larger than the remainder of the message.

SIZE	A	B	C	D	E	F	G	H	I	J	K	L	M	N	O	P	Q	R	S	T	U	V	W	X	Y	Z	Area sq. ft.
1																											
2	24	12	1 1/8	3/8	3/8	6	7	2 1/4	2 3/4	10 1/4	7 7/8	8 3/8	10 1/4	9 3/4	8 3/4			1 1/2									2.00
3	36	18	1 1/8	3/8	1/2	9	10	3 3/4	4 1/4	14 3/8	12	12 1/8	14	14 1/8	13			1 1/2									4.5
4	36	18	1 1/8	3/8	1/2	9	10	3 3/4	4 1/4	14 3/8	12	12 1/8	14	14 1/8	13			1 1/2									4.5
5	36	18	1 1/8	3/8	1/2	9	10	3 3/4	4 1/4	14 3/8	12	12 1/8	14	14 1/8	13			1 1/2									4.5

STANDARD SIGNS
M3-1 thur M3-4
SERIES

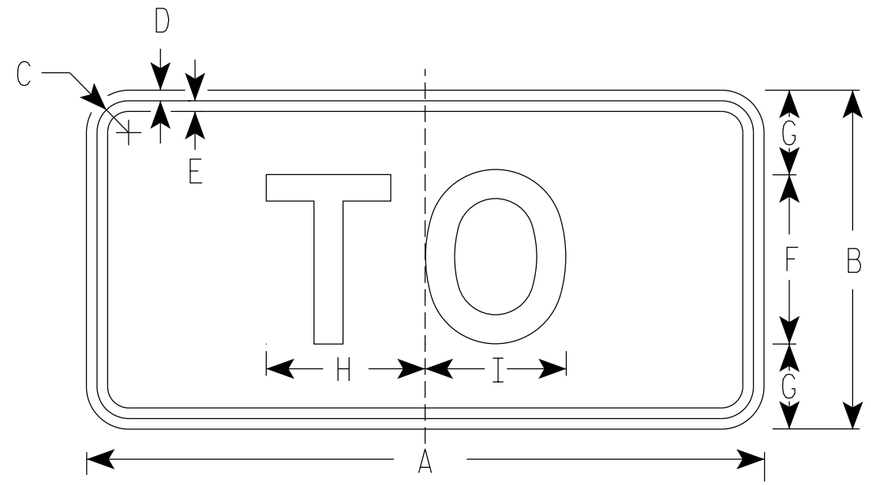
WISCONSIN DEPT OF TRANSPORTATION

APPROVED Matthew P Rauch for State Traffic Engineer

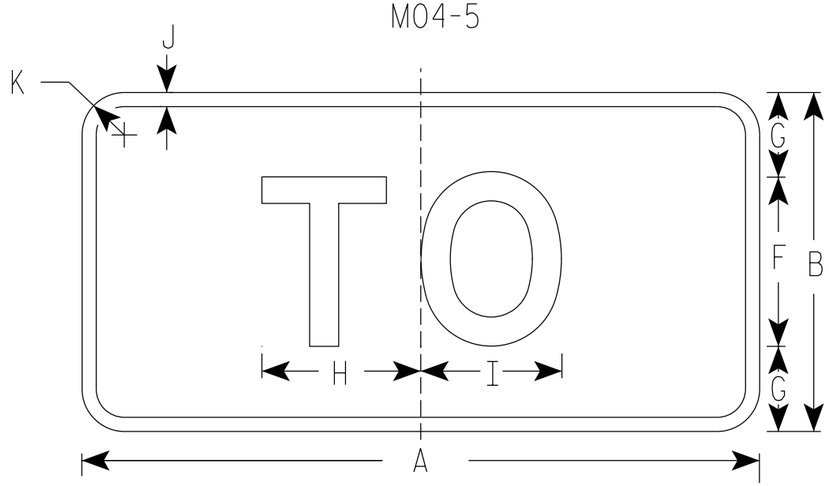
DATE 10/15/15 PLATE NO M3-1.14

PROJECT NO: | HWY: | COUNTY: | SHEET NO: E

FILE NAME : C:\CAEfiles\Projects\tr_stdplate\M31.DGN PLOT DATE : 01-DEC-2015 17:54 PLOT BY : $$ plotuser $$ PLOT NAME : PLOT SCALE : 11.675051:1.000000



M4-5
MM4-5
MP4-5
M04-5



MB4-5
MK4-5
MN4-5

NOTES

1. Sign is Type II - Type H Reflective
2. Color:
   Background - See note 5
   Message - See note 5
3. Message Series - E
4. Corners may be square or rounded when base material is plywood but borders shall be rounded as shown. When base material is metal, the corners and borders shall be rounded.
5. M4-5 Background - White
   Message - Black

   MB4-5 Background - Blue
   Message - White

   MK4-5 Background - Green
   Message - White

   MM4-5 Background - White
   Message - Green

   MN4-5 Background - Brown
   Message - White

   MP4-5 Background - White
   Message - Blue

   M04-5 Background - Orange Type F Reflective
   Message - Black

SIZE	A	B	C	D	E	F	G	H	I	J	K	L	M	N	O	P	Q	R	S	T	U	V	W	X	Y	Z	Area sq. ft.
1																											
2	24	12	1 1/8	3/8	3/8	6	3	5 3/8	5 1/4	1/2	1 1/2																2.00
3	36	18	1 3/8	3/8	1/2	9	4 1/2	8 1/4	8 3/8	1/2	1 1/2																4.5
4	36	18	1 3/8	3/8	1/2	9	4 1/2	8 1/4	8 3/8	1/2	1 1/2																4.5
5	36	18	1 3/8	3/8	1/2	9	4 1/2	8 1/4	8 3/8	1/2	1 1/2																4.5

STANDARD SIGN
M4-5

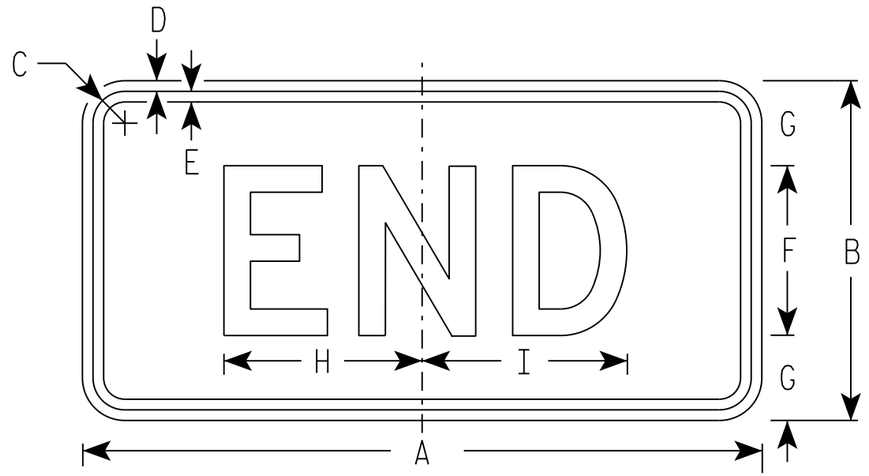
WISCONSIN DEPT OF TRANSPORTATION

APPROVED Matthew R Rauch
for State Traffic Engineer

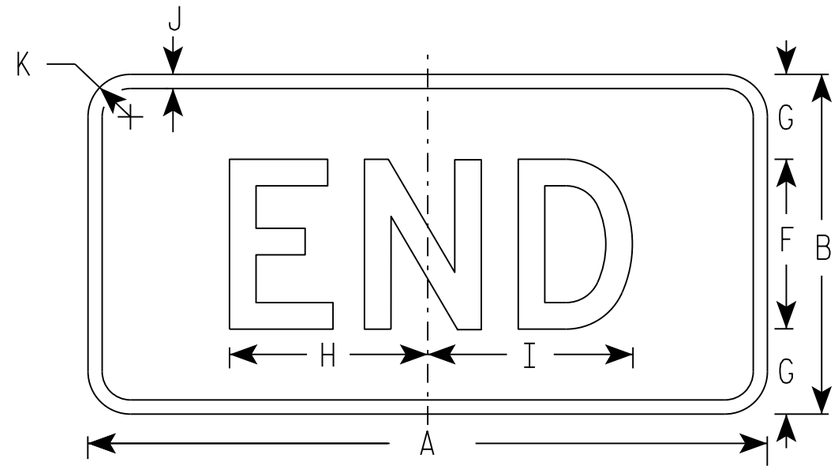
DATE 03/7/19 PLATE NO. M4-5.9

PROJECT NO: | HWY: | COUNTY: | SHEET NO: 159 | E

7



M4-6
MM4-6
MP4-6



MB4-6
MK4-6
MN4-6
MR4-6

NOTES

1. Sign is Type II - Type H
2. Color:
   Background - See note 5
   Message - See note 5
3. Message Series - D
4. Corners may be square or rounded when base material is plywood but borders shall be rounded as shown. When base material is metal, the corners and borders shall be rounded.
5. M4-6 Background - White
   Message - Black

   MB4-6 Background - Blue
   Message - White

   MK4-6 Background - Green
   Message - White

   MM4-6 Background - White
   Message - Green

   MN4-6 Background - Brown
   Message - White

   MP4-6 Background - White
   Message - Blue

   MR4-6 Background - Brown
   Message - Yellow

SIZE	A	B	C	D	E	F	G	H	I	J	K	L	M	N	O	P	Q	R	S	T	U	V	W	X	Y	Z	Area sq. ft.
1																											
2	24	12	1 1/8	3/8	3/8	6	3	7	7 1/4	1/2	1 1/2																2.00
3	36	18	1 1/8	3/8	1/2	9	4 1/2	12	11 7/8	1/2	1 1/2																4.5
4	36	18	1 1/8	3/8	1/2	9	4 1/2	12	11 7/8	1/2	1 1/2																4.5
5	36	18	1 1/8	3/8	1/2	9	4 1/2	12	11 7/8	1/2	1 1/2																4.5

STANDARD SIGN
M4-6

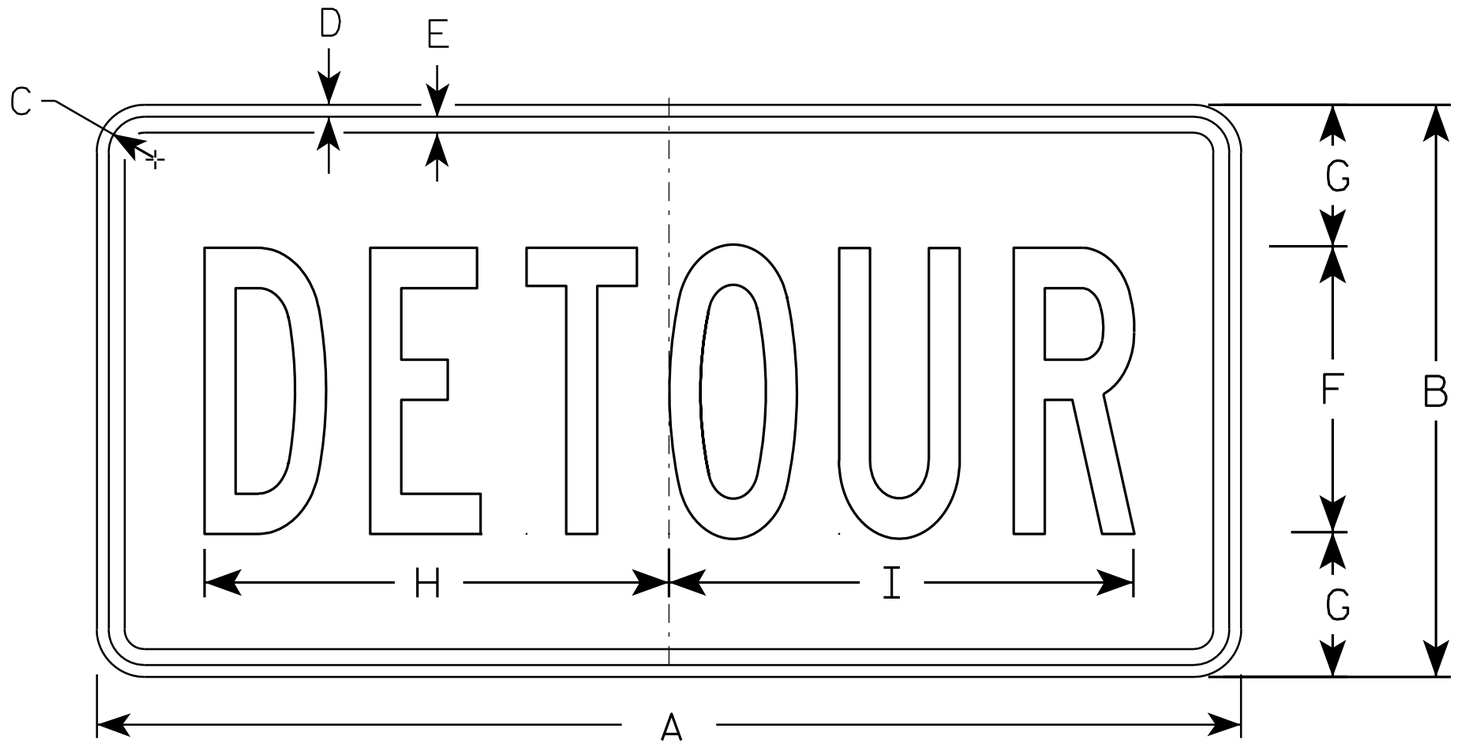
WISCONSIN DEPT OF TRANSPORTATION

APPROVED Matthew R Rauch
for State Traffic Engineer

DATE 10/15/15 PLATE 160 '14-7.9

PROJECT NO: | HWY: | COUNTY: | SHEET NO: E

FILE NAME : C:\CAEfiles\Projects\tr_stdplate\M46.DGN PLOT DATE : 01-DEC-2015 17:55 PLOT BY : $$ plotuser $$ PLOT NAME : PLOT SCALE : 5.351066:1.000000



M4-8

NOTES

1. Sign is Type II - Type F Reflective - reference WIS DOT Standard Specification for HIGHWAY and STRUCTURE CONSTRUCTION latest edition.
2. Color:
   Background - Orange
   Message - Black
3. Message Series - B
4. Corners may be square or rounded when base material is plywood but borders shall be rounded as shown. When base material is metal, the corners and borders shall be rounded.

SIZE	A	B	C	D	E	F	G	H	I	J	K	L	M	N	O	P	Q	R	S	T	U	V	W	X	Y	Z	Area sq. ft.
1																											
2	24	12	1 1/8	3/8	3/8	6	3	10	10 1/4																		2.0
3	36	18	1 1/8	3/8	1/2	9	4 1/2	14 5/8	14 1/2																		4.5
4																											
5																											

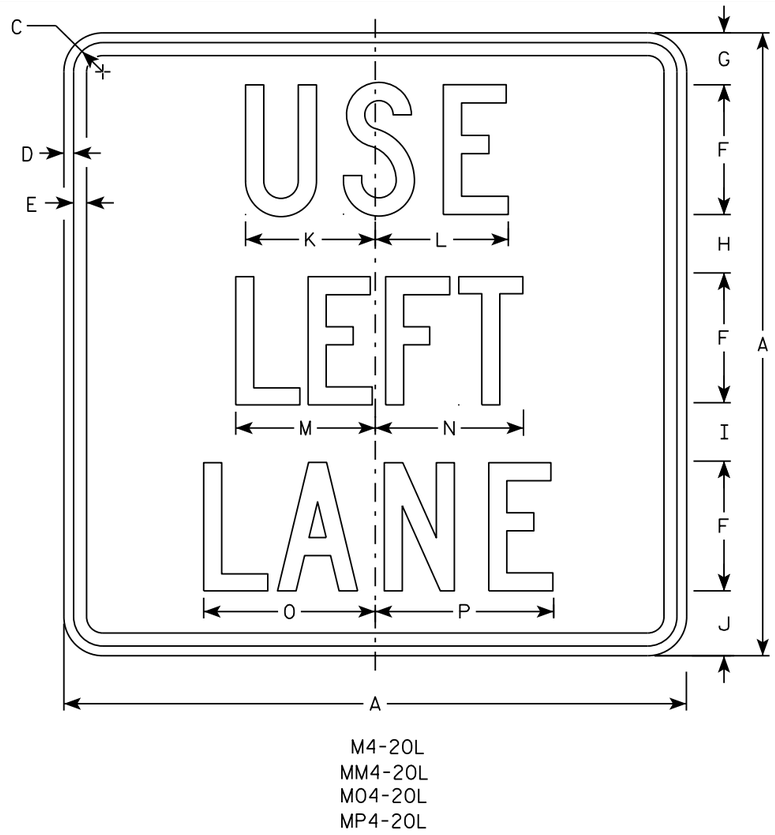
STANDARD SIGN
M4-8

WISCONSIN DEPT OF TRANSPORTATION

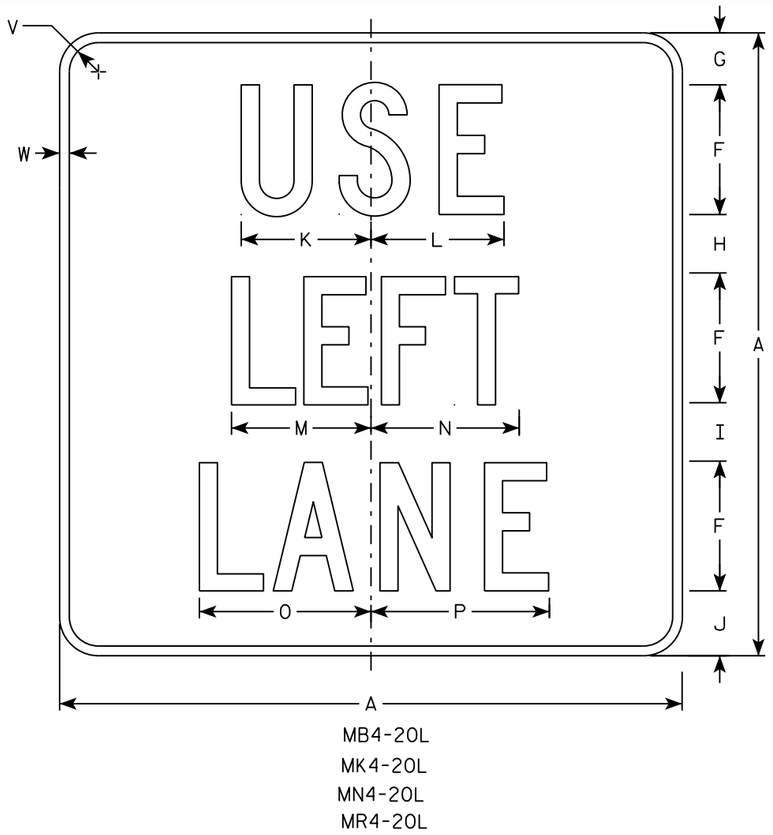
APPROVED Matthew R Rauch
for State Traffic Engineer

DATE 11/10/10 PLATE NO. M4-8.2

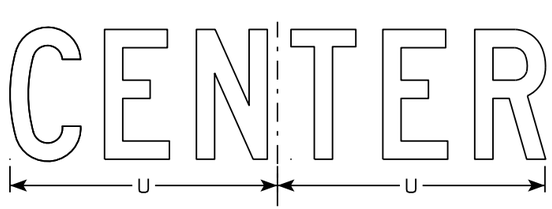
PROJECT NO:	HWY:	COUNTY:		SHEET NO: 161	E



M4-20L
MM4-20L
M04-20L
MP4-20L



MB4-20L
MK4-20L
MN4-20L
MR4-20L



M4-20C
MB4-20C
MK4-20C
MM4-20C
MN4-20C
M04-20C
MP4-20C
MR4-20C



M4-20R
MB4-20R
MK4-20R
MM4-20R
MN4-20R
M04-20R
MP4-20R
MR4-20R

NOTES

1. Sign is Type II - Type H except as Shown
2. Color:
   Background - See note 5
   Message - See note 5
3. Message Series - C
4. Corners may be square or rounded when base material is plywood but borders shall be rounded as shown. When base material is metal, the corners and borders shall be rounded.
5. M4-20 Background - White
   Message - Black
   MB4-20 Background - Blue
   Message - White
   MK4-20 Background - Green
   Message - White
   MM4-20 Background - White
   Message - Green
   MN4-20 Background - Brown
   Message - White
   M04-20 Background - Orange - Type F Reflective
   Message - Black
   MP4-20 Background - White
   Message - Blue
   MR4-20 Background - Brown
   Message - Yellow

SIZE	A	B	C	D	E	F	G	H	I	J	K	L	M	N	O	P	Q	R	S	T	U	V	W	X	Y	Z	Area sq. ft.
1																											
2	24		1 1/8	3/8	1/2	5	2	2 1/4	2 1/4	2 1/2	5	5 1/8	5 3/8	5 3/4	6 5/8	6 7/8			7	7 5/8	10 1/4	1 1/2	1/2				4.0
3	36		1 5/8	5/8	3/4	7	4	3	3 1/2	4 1/2	7 1/2	7 3/4	8	8 5/8	9 7/8	10 1/4			10 3/8	11 3/8	14 3/8	1 7/8	1/2				9.0
4																											
5																											

STANDARD SIGN
M4-20

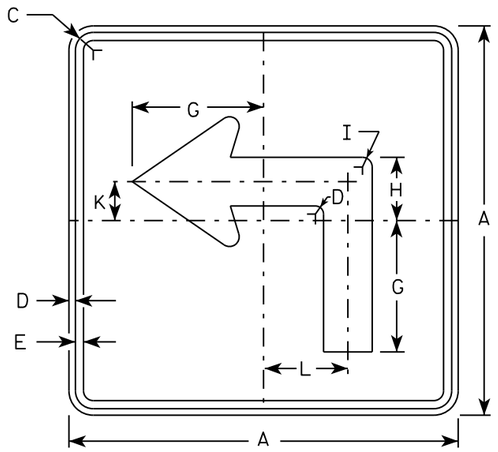
WISCONSIN DEPT OF TRANSPORTATION

APPROVED Matthew R Rauch
For State Traffic Engineer

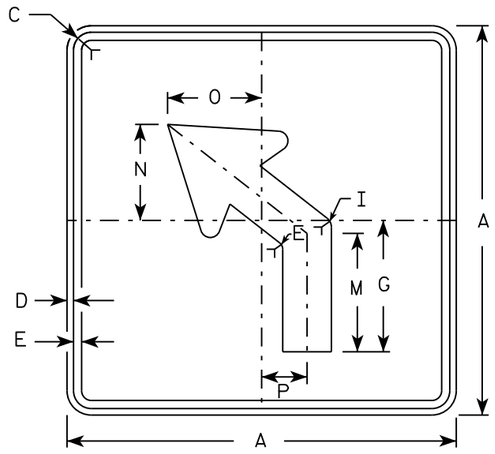
DATE 10/15/15 PLATE NO M4-20.5

PROJECT NO: | HWY: | COUNTY: | SHEET NO: E

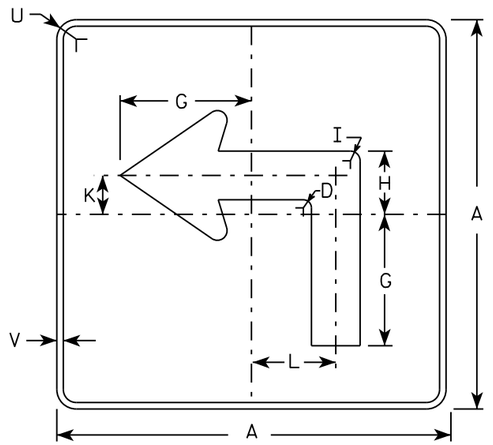
FILE NAME : C:\CAEfiles\Projects\tr_stdplate\M420.DGN PLOT DATE : 01-DEC-2015 18:03 PLOT BY : $$ plotuser $$ PLOT NAME : PLOT SCALE : 5.837526:1.000000



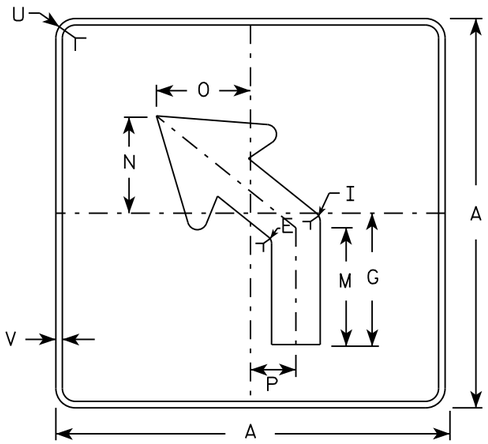
M5-1L
MM5-1L
MO5-1L
MP5-1L



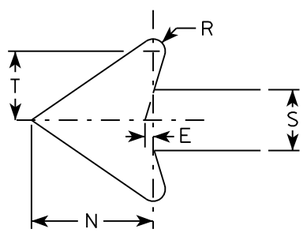
M5-2L
MM5-2L
MO5-2L
MP5-2L



MB5-1L
MK5-1L
MN5-1L
MR5-1L



MB5-2L
MK5-2L
MN5-2L
MR5-2L



NOTES

1. Signs are Type II - Type H reflective except as shown
2. Color:
   Background - See note 4
   Message - See note 4
3. Corners may be square or rounded when base material is plywood but borders shall be rounded as shown. When base material is metal, the corners and borders shall be rounded.
4. M5-1 and M5-2 Background - White
   Message - Black
   MB5-1 and MB5-2 Background - Blue
   Message - White
   MK5-1 and MK5-2 Background - Green
   Message - White
   MM5-1 and MM5-2 Background - White
   Message - Green
   MN5-1 and MN5-2 Background - Brown
   Message - White
   MO5-1 and MO5-2 Background - Orange - Type F Reflective
   Message - Black
   MP5-1 and MP5-2 Background - White - Type H Reflective
   Message - Blue
   MR5-1 and MR5-2 Background - Brown
   Message - Yellow
5. M5-1R same as M5-1L except arrow points right.
6. M5-2R same as M5-2L except arrow tilts right.

SIZE	A	B	C	D	E	F	G	H	I	J	K	L	M	N	O	P	Q	R	S	T	U	V	W	X	Y	Z	Area sq. ft.
1																											
2	21		1 1/8	3/8	3/8		7	3 3/8	5/8		2 1/8	4 1/2	6 3/8	5 1/4	5	2 1/2		1/2	2 5/8	3	1 1/2	1/2					3.06
3	30		1 3/8	1/2	5/8		10 1/8	4 7/8	7/8		3	6 1/2	9 1/8	7 1/2	7 1/4	3 1/2		3/4	3 3/4	4 1/4	1 7/8	1/2					6.25
4	30		1 3/8	1/2	5/8		10 1/8	4 7/8	7/8		3	6 1/2	9 1/8	7 1/2	7 1/4	3 1/2		3/4	3 3/4	4 1/4	1 7/8	1/2					6.25
5	30		1 3/8	1/2	5/8		10 1/8	4 7/8	7/8		3	6 1/2	9 1/8	7 1/2	7 1/4	3 1/2		3/4	3 3/4	4 1/4	1 7/8	1/2					6.25

STANDARD SIGN
M5-1 & M5-2

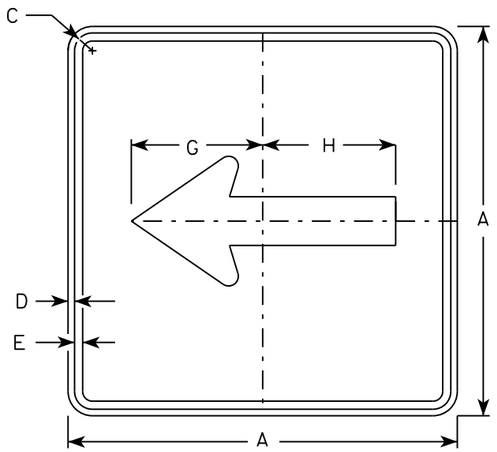
WISCONSIN DEPT OF TRANSPORTATION

APPROVED Matthew R Rauch
for State Traffic Engineer

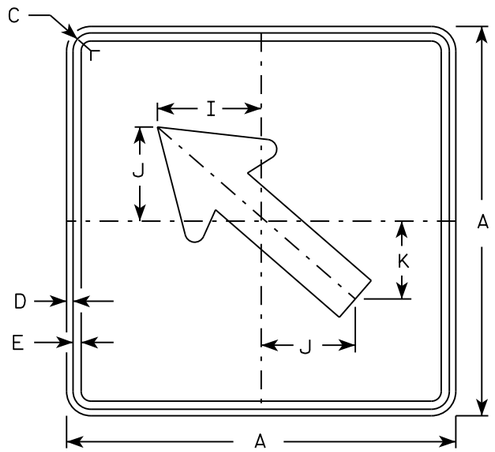
DATE 10/15/15 PLATE NO. M5-1.13

PROJECT NO: | HWY: | COUNTY: | SHEET NO: E

FILE NAME : C:\CAEfiles\Projects\tr_stdplate\M51.DGN PLOT DATE : 01-DEC-2015 18:07 PLOT BY : $$ plotuser $$ PLOT NAME : PLOT SCALE : 11.675051:1.000000



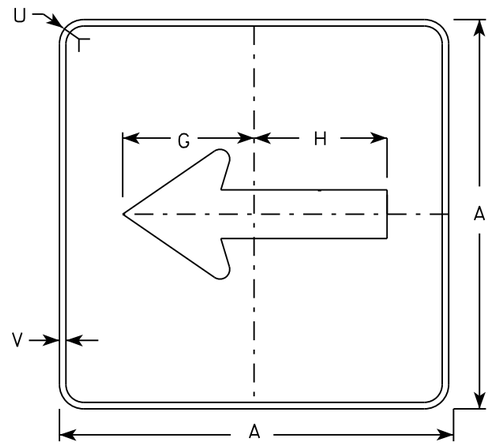
M6-1
MM6-1
MO6-1
MP6-1



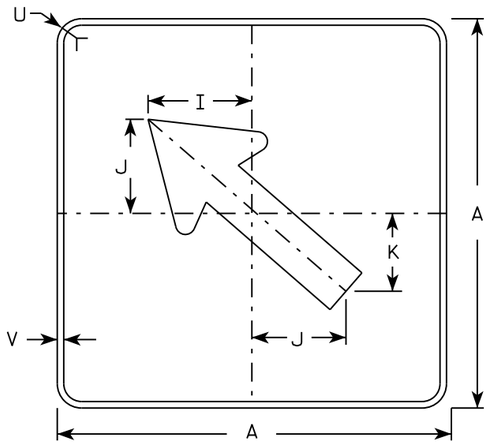
M6-2
MM6-2
MO6-2
MP6-2

NOTES

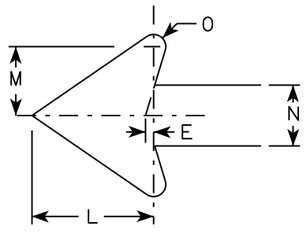
1. Signs are Type II - Type H except as Shown
2. Color:
   Background - See note 4
   Message - See note 4
3. Corners may be square or rounded when base material is plywood but borders shall be rounded as shown. When base material is metal, the corners and borders shall be rounded.
4. M6-1 and M6-2 Background - White
   Message - Black
   MB6-1 and MB6-2 Background - Blue
   Message - White
   MK6-1 and MK6-2 Background - Green
   Message - White
   MM6-1 and MM6-2 Background - White
   Message - Green
   MN6-1 and MN6-2 Background - Brown
   Message - White
   MO6-1 and MO6-2 Background - Orange - Type F Reflective
   Message - Black
   MP6-1 and MP6-2 Background - White
   Message - Blue
   MR6-1 and MR6-2 Background - Brown
   Message - Yellow



MB6-1
MK6-1
MN6-1
MR6-1



MB6-2
MK6-2
MN6-2
MR6-2



SIZE	A	B	C	D	E	F	G	H	I	J	K	L	M	N	O	P	Q	R	S	T	U	V	W	X	Y	Z	Area sq. ft.
1																											
2	21		1 1/8	3/8	3/8		7 1/2	7 1/8	5 5/8	5	4 1/4	5 1/4	3	2 5/8	1/2						1 1/2	1/2						3.06
3	30		1 3/8	1/2	5/8		10 3/4	10 1/4	8	7 1/4	6	7 1/2	4 1/4	3 3/4	3/4						1 7/8	1/2						6.25
4	30		1 3/8	1/2	5/8		10 3/4	10 1/4	8	7 1/4	6	7 1/2	4 1/4	3 3/4	3/4						1 7/8	1/2						6.25
5	30		1 3/8	1/2	5/8		10 3/4	10 1/4	8	7 1/4	6	7 1/2	4 1/4	3 3/4	3/4						1 7/8	1/2						6.25

STANDARD SIGN
M6-1 & M6-2
SERIES

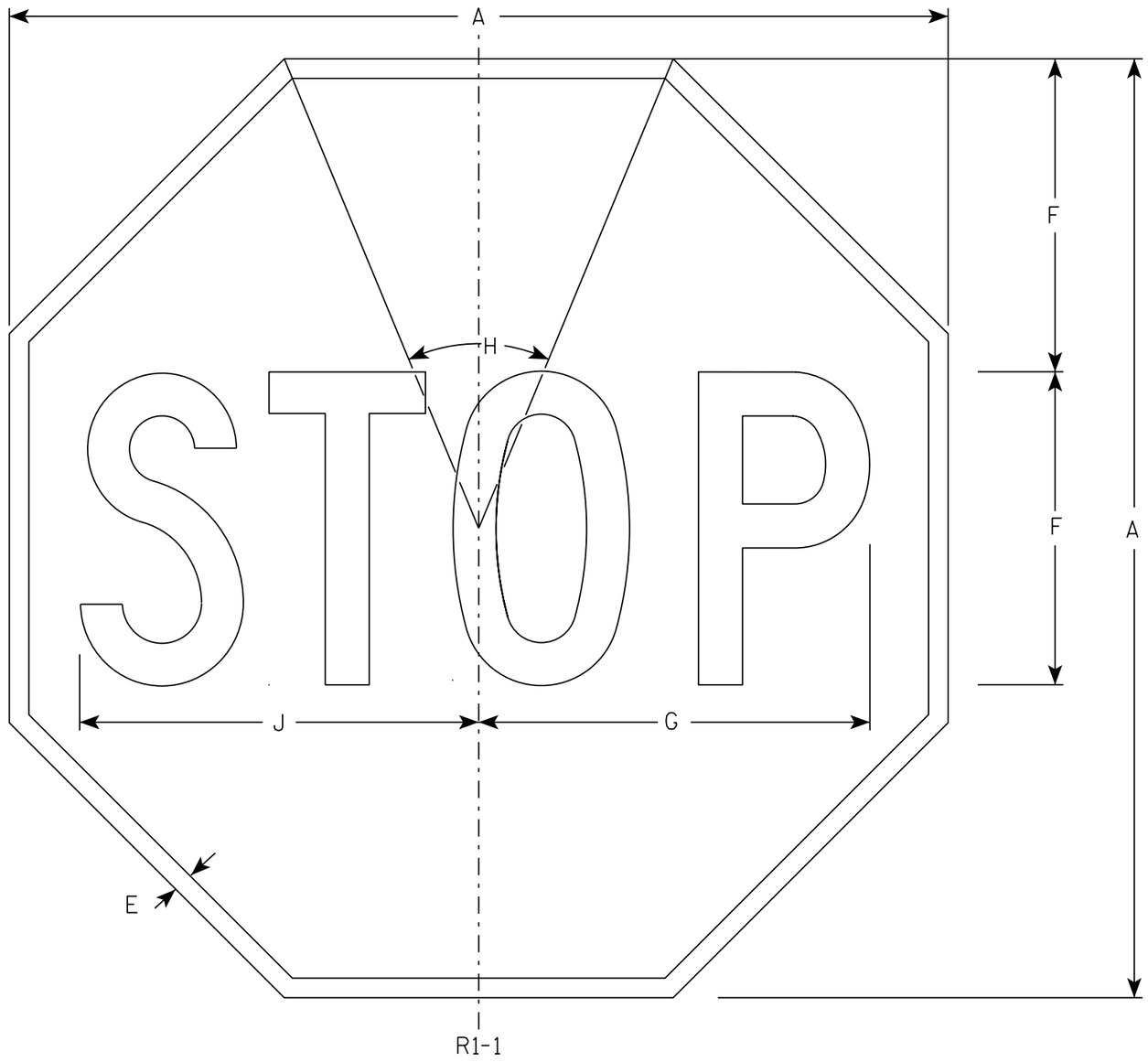
WISCONSIN DEPT OF TRANSPORTATION

APPROVED Matthew R Rauch
for State Traffic Engineer

DATE 10/15/15 PLATE 164 M6-1.15

PROJECT NO:	HWY:	COUNTY:		SHEET NO:	E

FILE NAME : C:\CAEfiles\Projects\tr_stdplate\M61.DGN PLOT DATE : 01-DEC-2015 17:57 PLOT BY : $$ plotuser $$ PLOT NAME : PLOT SCALE : 11.675051:1.000000



NOTES

1. Sign is Type II - Type H Reflective - reference WIS DOT Standard Specification for HIGHWAY and STRUCTURE CONSTRUCTION latest edition.
2. Color:
   Background - Red
   Message - White
3. Message Series - C

SIZE	A	B	C	D	E	F	G	H	I	J	K	L	M	N	O	P	Q	R	S	T	U	V	W	X	Y	Z	Area sq. ft.
1	30				5/8	10	12 1/2	45°		12 3/4																	5.18
2S	30				5/8	10	12 1/2	45°		12 3/4																	5.18
2M	36				3/4	12	15	45°		15 3/8																	7.46
3	36				3/4	12	15	45°		15 3/8																	7.46
4	48				1	16	20	45°		20 1/2																	13.25
5	48				1	16	20	45°		20 1/2																	13.25
6	18				3/8	6	7 3/4	45°		7 3/4																	1.86
7	12				1/4	4	5	45°		5 1/8																	0.78

STANDARD SIGN

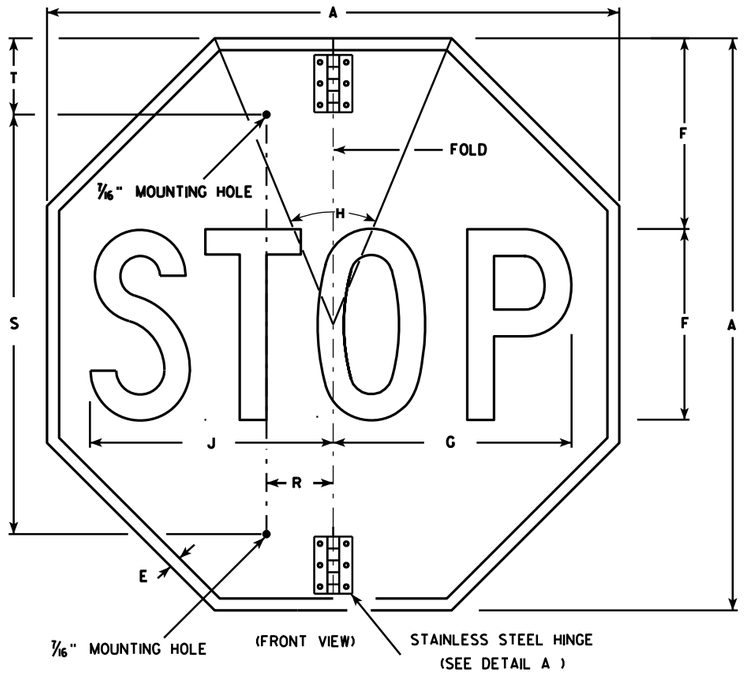
R1-1

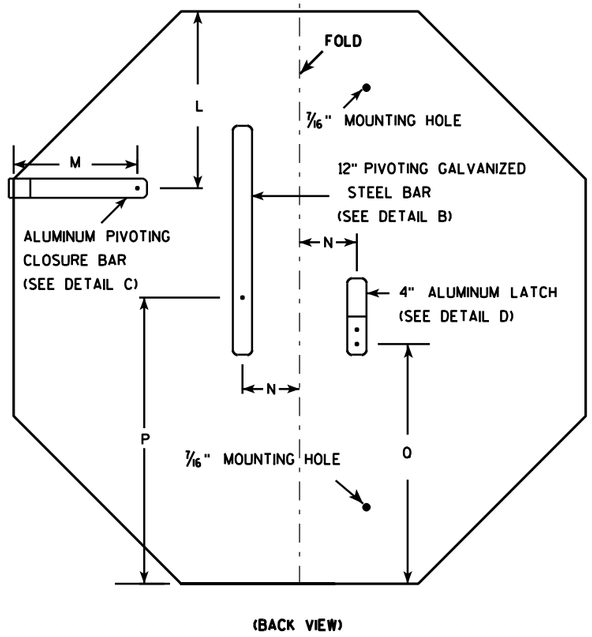
WISCONSIN DEPT OF TRANSPORTATION

APPROVED Matthew R Rauch
for State Traffic Engineer

DATE 11/12/15 PLATE NO. R1-1.13

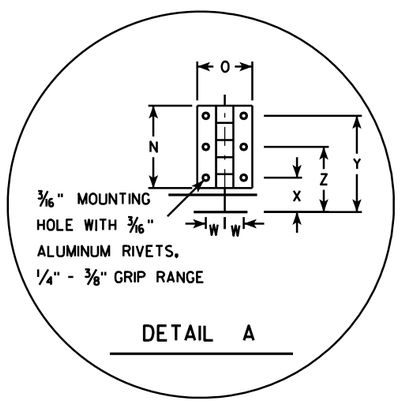
PROJECT NO:	HWY:	COUNTY:		SHEET NO: 165	E



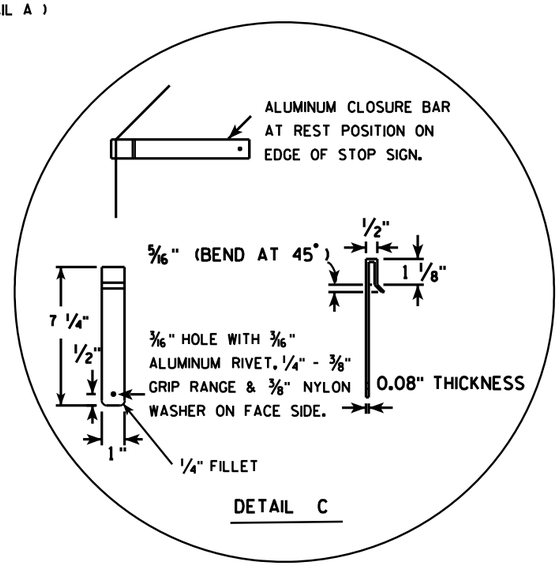


NOTES

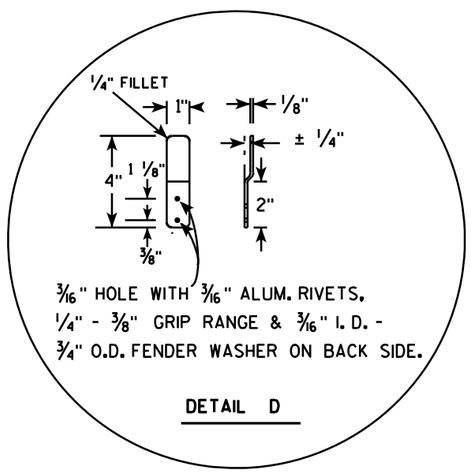
1. Sign is Type II - Type H Reflective - reference WIS DOT Standard Specification for HIGHWAY and STRUCTURE CONSTRUCTION latest edition.
2. Color:
   Background - Red
   Message - White
3. Message Series - C
4. All hardware used on the folding STOP sign installation shall conform to 637.2.4 of the WIS DOT Standard Specification.



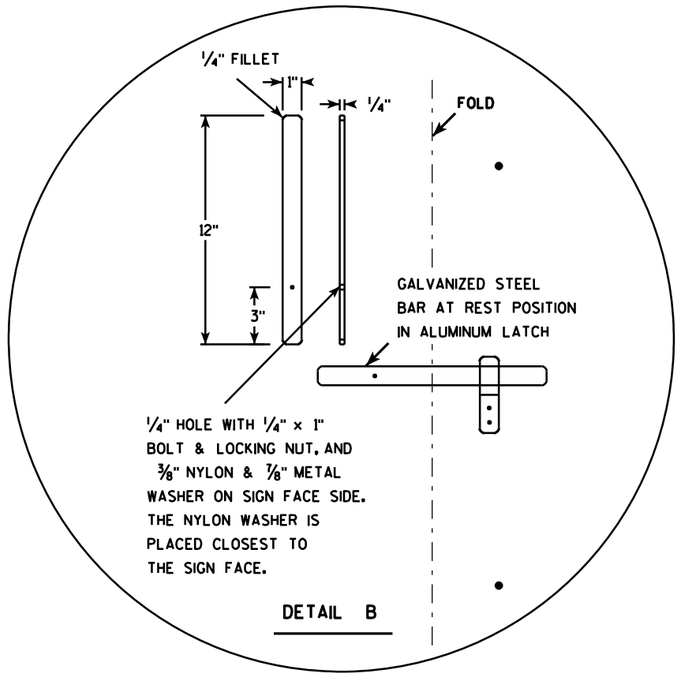
DETAIL A



DETAIL C



DETAIL D



DETAIL B

SIZE	A	B	C	D	E	F	G	H	I	J	K	L	M	N	O	P	O	R	S	T	U	V	W	X	Y	Z	Area sq. ft.
1																											
2S	30				5/8	10	12 1/2	45		12 3/4		9 1/4	6 1/2	3	2	15	12 3/8	2 1/2	22	5			11/16	1 1/4	3 1/2	2 3/8	5.18
2M	36				3/4	12	15	45		15 3/8		11	6 1/2	3	2	18	15 3/8	2 1/2	26	5			11/16	1 1/4	3 1/2	2 3/8	7.46
3	36				3/4	12	15	45		15 3/8		11	6 1/2	3	2	18	15 3/8	2 1/2	26	5			11/16	1 1/4	3 1/2	2 3/8	7.46
4																											
5																											

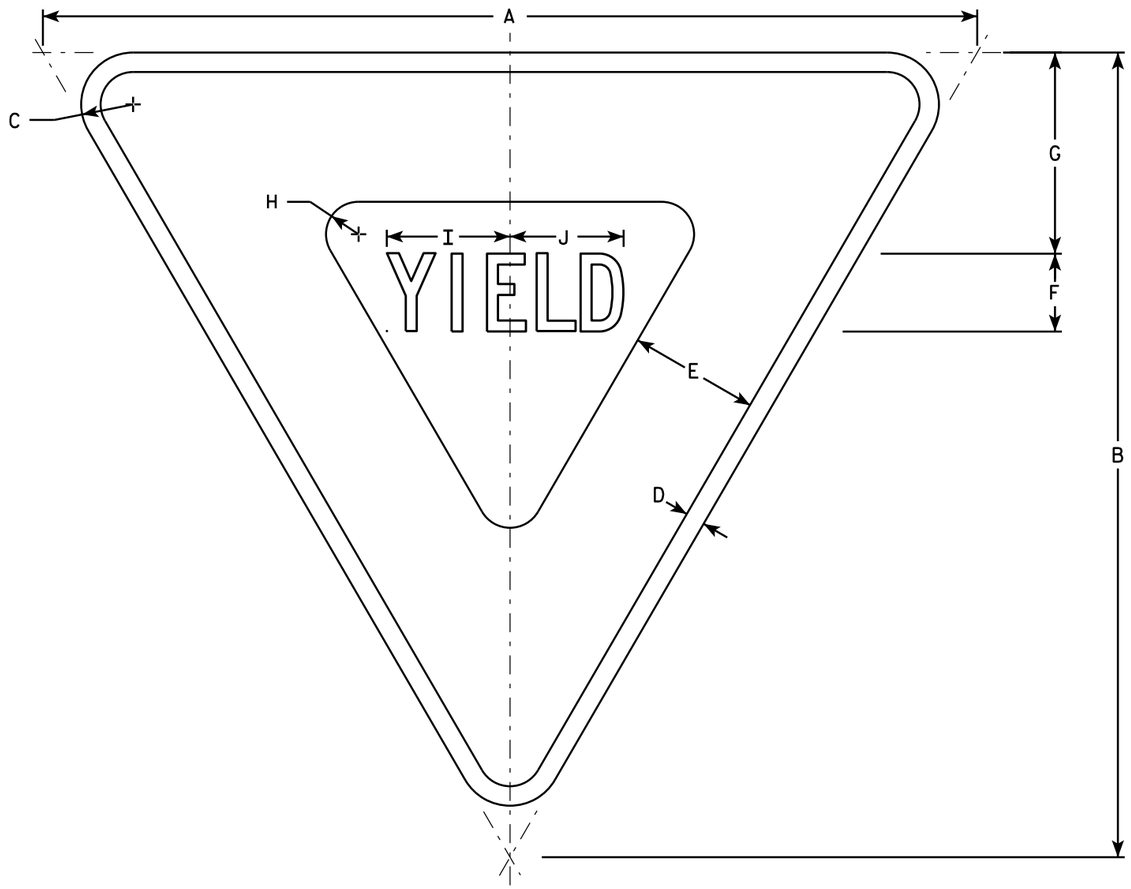
STANDARD SIGN
R1-1F

WISCONSIN DEPT OF TRANSPORTATION

APPROVED Matthew R Rauch
for State Traffic Engineer

DATE 12/03/10 PLATE NO. R1-1F.3

PROJECT NO:	HWY:	COUNTY:		SHEET NO: 166	E



R1-2

NOTES

1. Sign is Type II - Type H Reflective - reference WIS DOT Standard Specification for HIGHWAY and STRUCTURE CONSTRUCTION latest edition.
2. Color:
   Background - White
   Message - See note 5
3. Message Series - C
4. Corners may be square or rounded when base material is plywood but borders shall be rounded as shown. When base material is metal, the corners and borders shall be rounded.
5. The border strip and word message are reflectorized red.

SIZE	A	B	C	D	E	F	G	H	I	J	K	L	M	N	O	P	Q	R	S	T	U	V	W	X	Y	Z	Area sq. ft.
1	30	26	1 1/2	5/8	4	2 1/2	6 3/8	7/8	4	3 5/8																	2.71
2S	36	31	2	3/4	5	3	7 3/4	1 1/4	4 3/4	4 3/8																	3.88
2M	48	42	3	1	6	4	9 3/4	2	6 1/4	5 7/8																	7.00
3	48	42	3	1	6	4	9 3/4	2	6 1/4	5 7/8																	7.00
4	48	42	3	1	6	4	9 3/4	2	6 1/4	5 7/8																	7.00
5	60	52	3	1 1/2	8	5	13	2 1/2	7 7/8	7 1/4																	10.83
6																											
7	18	15 1/2	1	3/8	2 1/2	1 1/2	3 7/8	5/8	2 3/8	2 1/4																	0.97

STANDARD SIGN
R1-2

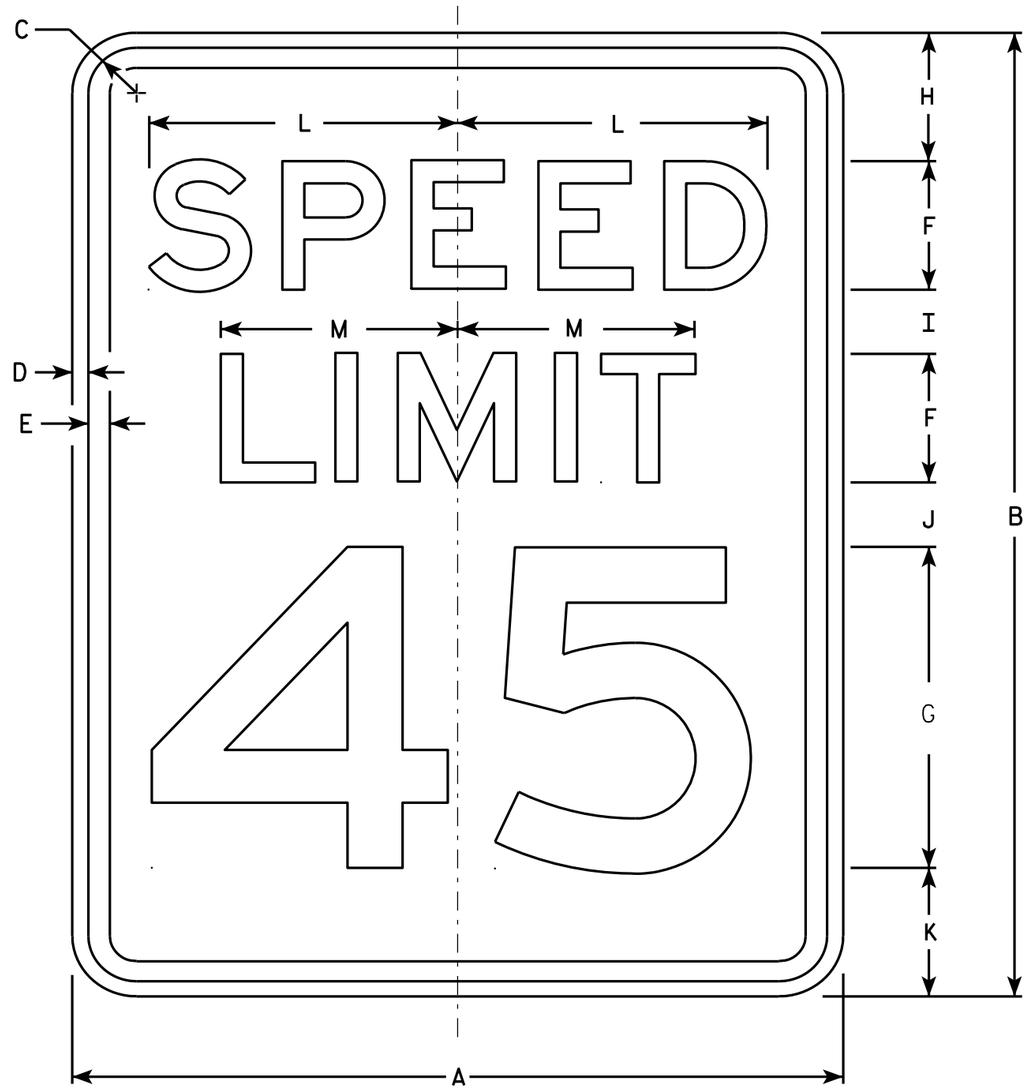
WISCONSIN DEPT OF TRANSPORTATION

APPROVED Matthew R Rauch
for State Traffic Engineer

DATE 10/13/14 PLATE R1-2.12

PROJECT NO: | HWY: | COUNTY: | SHEET NO: E

FILE NAME : C:\CAEFiles\Projects\tr_stdplate\R12.DGN PLOT DATE : 13-OCT-2014 15:12 PLOT BY : mscsja PLOT NAME : PLOT SCALE : 5.837526:1.000000
WISDOT/CADDS SHEET 42



R2-1

NOTES

1. Sign is Type II - Type H Reflective - reference WIS DOT Standard Specification for HIGHWAY and STRUCTURE CONSTRUCTION latest edition.
2. Color:
   Background - White
   Message - Black
3. Message Series - E
4. Corners may be square or rounded when base material is plywood but borders shall be rounded as shown. When base material is metal, the corners and borders shall be rounded.
5. Substitute appropriate numerals and optically adjust spacing to achieve proper balance.

SIZE	A	B	C	D	E	F	G	H	I	J	K	L	M	N	O	P	Q	R	S	T	U	V	W	X	Y	Z	Area sq. ft.
1	18	24	1 1/8	3/8	1/2	3	8	3	2	2	3	7 1/4	5 1/2														3.0
2S	24	30	1 1/8	3/8	1/2	4	10	3	2 1/4	3 3/8	3 3/8	9 5/8	7 3/8														5.0
2M	30	36	1 3/8	1/2	5/8	5	12	5	2 1/2	2 1/2	4	12	9 1/4														7.5
3	36	48	1 3/8	1/2	5/8	6	14	6	5	5	6	14 3/8	11														12.0
4	36	48	1 3/8	1/2	5/8	6	14	6	5	5	6	14 3/8	11														12.0
5	48	60	2 1/4	3/4	1	8	20	6	4 1/2	6 3/4	6 3/4	19 1/4	14 5/8														20.0

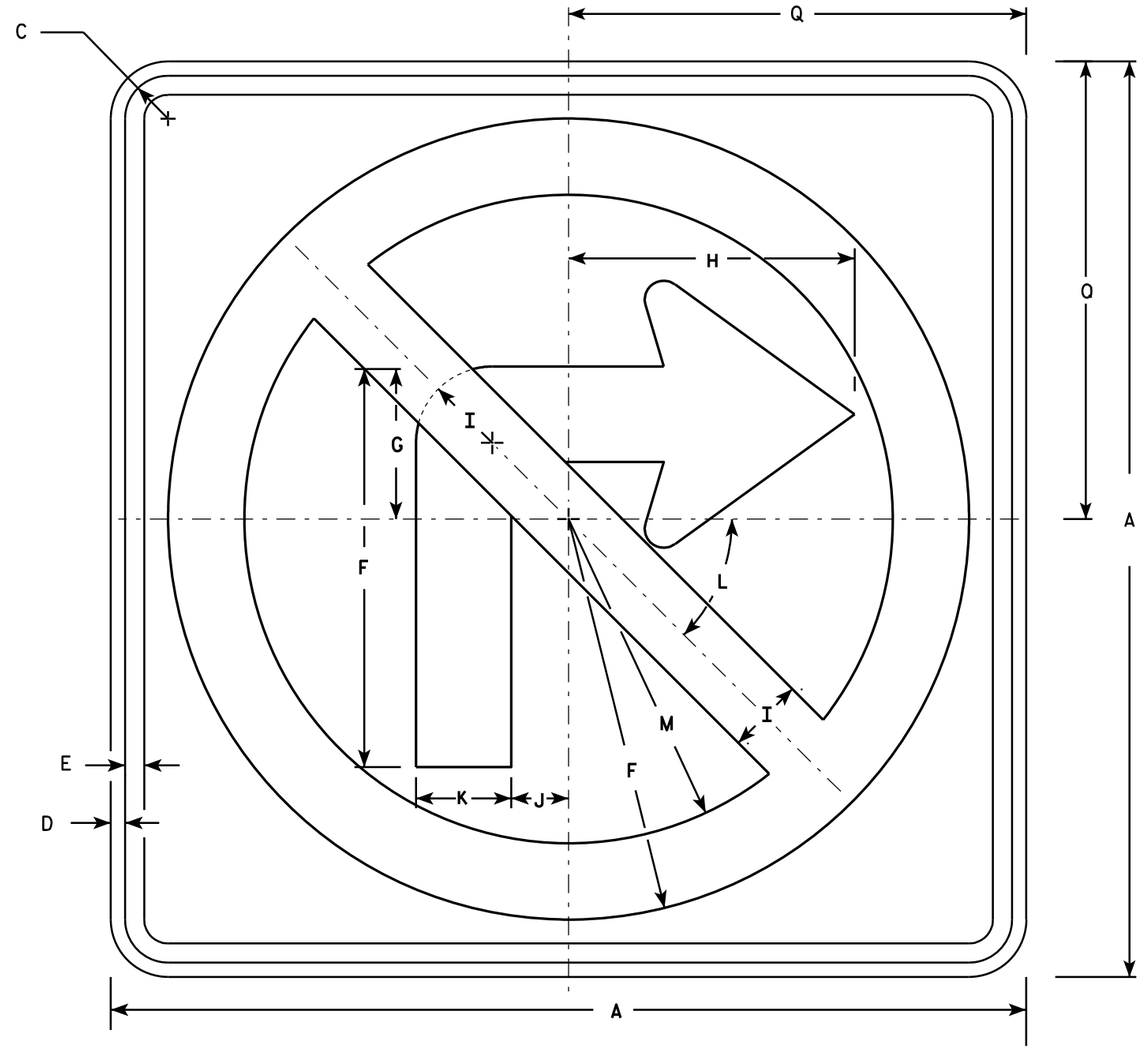
STANDARD SIGN
R2-1

WISCONSIN DEPT OF TRANSPORTATION

APPROVED Matthew R Rauch
for State Traffic Engineer

DATE 5/26/10 PLATE NO. R2-1.13

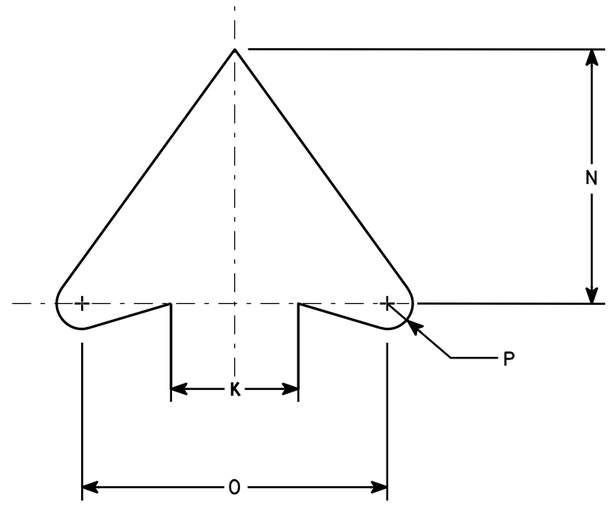
PROJECT NO: | HWY: | COUNTY: | SHEET NO: 168 | E



R3-1

NOTES

1. Sign is Type II - Type H Reflective - reference WIS DOT Standard Specification for HIGHWAY and STRUCTURE CONSTRUCTION latest edition.
2. Color:
   Background - White
   Message - See note 4
3. Corners may be square or rounded when base material is plywood but borders shall be rounded as shown. When base material is metal, the corners and borders shall be rounded.
4. Border & Arrow are non reflective black, the circle with diagonal bar is reflective red.



ARROW DETAIL

SIZE	A	B	C	D	E	F	G	H	I	J	K	L	M	N	O	P	Q	R	S	T	U	V	W	X	Y	Z	Area sq. ft.
1	24		1 1/8	3/8	1/2	10 1/2	4	7 1/2	2	1 1/2	2 1/2	45	8 1/2	5	6	1/2	12										4.0
2S	24		1 1/8	3/8	1/2	10 1/2	4	7 1/2	2	1 1/2	2 1/2	45°	8 1/2	5	6	1/2	12										4.0
2M	36		1 5/8	5/8	3/4	15 3/4	6	11 1/4	3	2 1/4	3 3/4	45	12 3/4	7 1/2	9	3/4	18										9.0
3	36		1 5/8	5/8	3/4	15 3/4	6	11 1/4	3	2 1/4	3 3/4	45	12 3/4	7 1/2	9	3/4	18										9.0
4	36		1 5/8	5/8	3/4	15 3/4	6	11 1/4	3	2 1/4	3 3/4	45°	12 3/4	7 1/2	9	3/4	18										9.0
5	48		2 1/4	3/4	1	21	8	15	4	3	5	45°	17	10	12	1	24										16.0

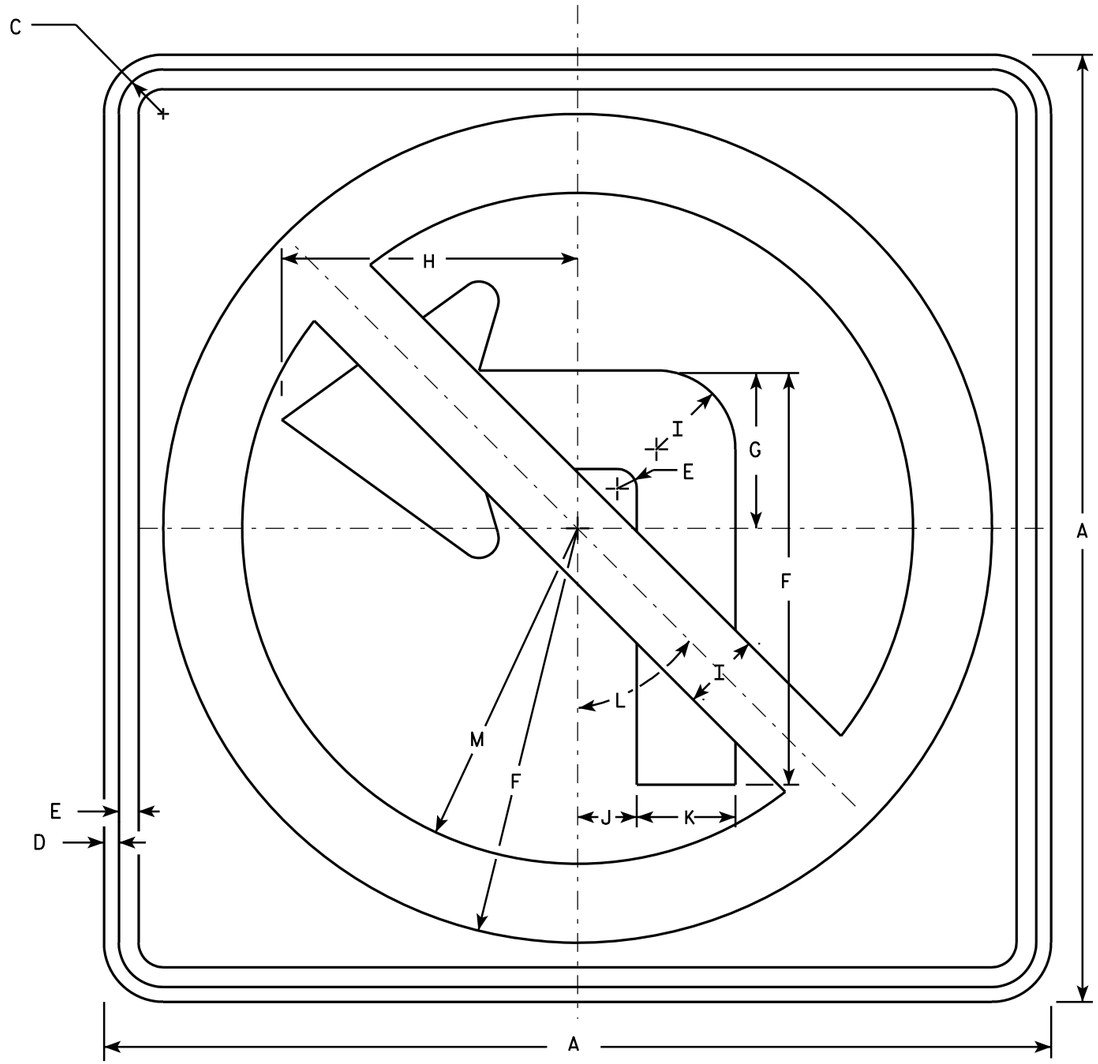
STANDARD SIGN
R3-1

WISCONSIN DEPT OF TRANSPORTATION

APPROVED Matthew R Rauch
for State Traffic Engineer

DATE 12/08/10 PLATE NO. R3-1.5

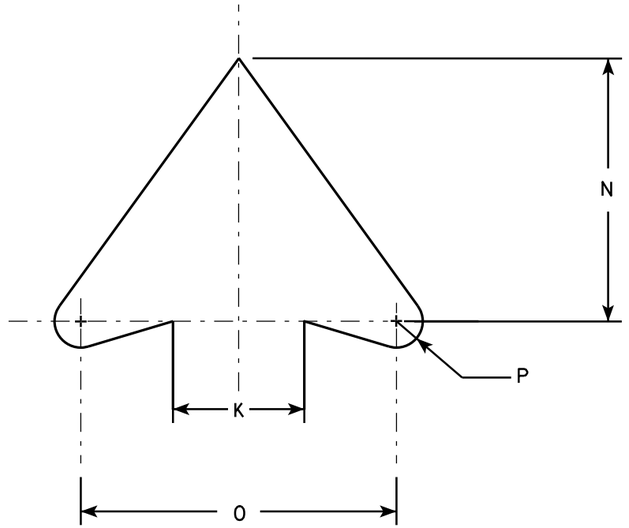
PROJECT NO:	HWY:	COUNTY:		SHEET NO: 169	E



R3-2

NOTES

1. Sign is Type II - Type H Reflective - reference WIS DOT Standard Specification for HIGHWAY and STRUCTURE CONSTRUCTION latest edition.
2. Color:
   Background - White
   Message - See note 4
3. Corners may be square or rounded when base material is plywood but borders shall be rounded as shown. When base material is metal, the corners and borders shall be rounded.
4. Border & Arrow are non reflective black, the circle with diagonal bar is reflective red.



ARROW DETAIL

SIZE	A	B	C	D	E	F	G	H	I	J	K	L	M	N	O	P	Q	R	S	T	U	V	W	X	Y	Z	Area sq. ft.
1	24		1 1/8	3/8	1/2	10 1/2	4	7 1/2	2	1 1/2	2 1/2	45°	8 1/2	5	6	1/2											4.0
2S	24		1 1/8	3/8	1/2	10 1/2	4	7 1/2	2	1 1/2	2 1/2	45°	8 1/2	5	6	1/2											4.0
2M	36		1 5/8	5/8	3/4	15 3/4	6	11 1/4	3	2 1/4	3 3/4	45°	12 3/4	7 1/2	9	3/4											9.0
3	36		1 5/8	5/8	3/4	15 3/4	6	11 1/4	3	2 1/4	3 3/4	45°	12 3/4	7 1/2	9	3/4											9.0
4	36		1 5/8	5/8	3/4	15 3/4	6	11 1/4	3	2 1/4	3 3/4	45°	12 3/4	7 1/2	9	3/4											9.0
5	48		2 1/4	3/4	1	21	8	15	4	3	5	45°	17	10	12	1											16.0

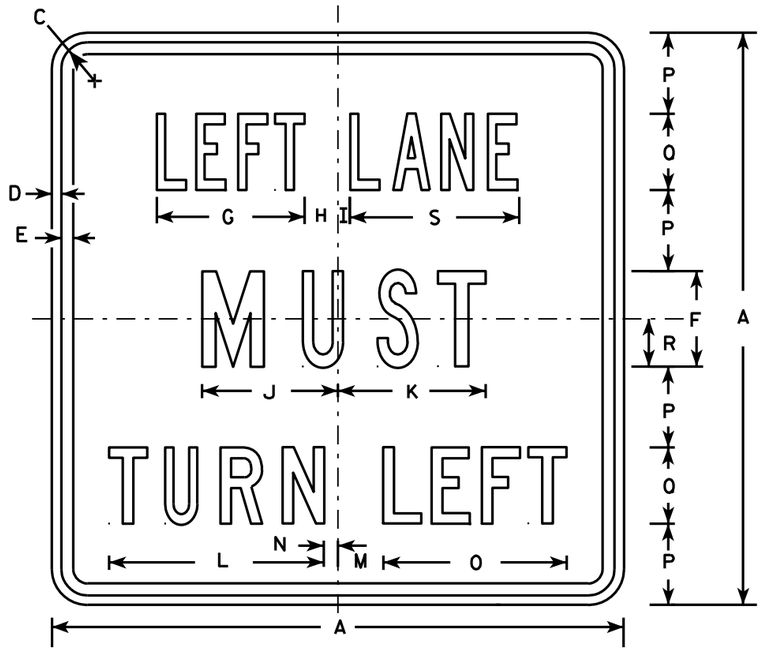
STANDARD SIGN
R3-2

WISCONSIN DEPT OF TRANSPORTATION

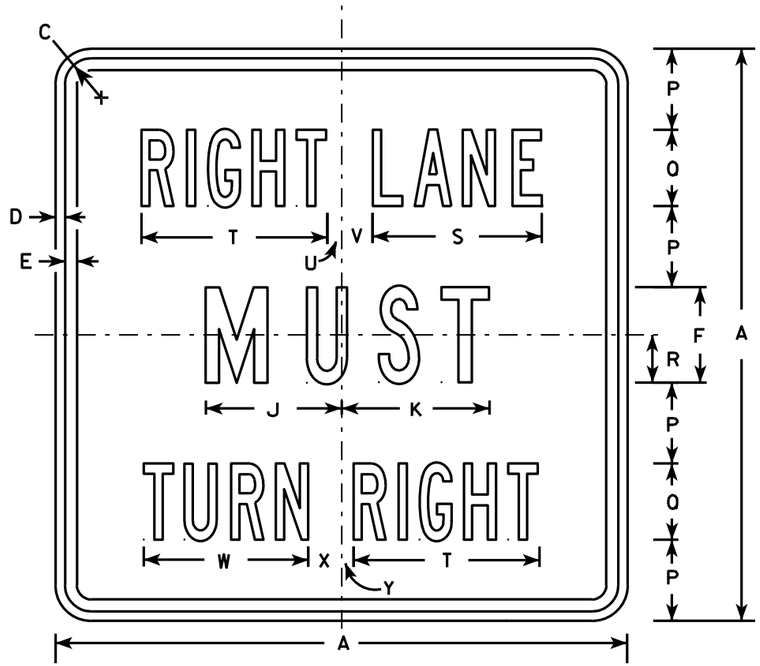
APPROVED Matthew R Rauch
for State Traffic Engineer

DATE 12/08/10 PLATE NO. R3-2.10

PROJECT NO:	HWY:	COUNTY:		SHEET NO: 170	E



R3-7L



R3-7R

NOTES

1. Sign is Type II - Type H Reflective - reference WIS DOT Standard Specification for HIGHWAY and STRUCTURE CONSTRUCTION latest edition.
2. Color:
   Background - White
   Message - Black
3. Message Series - Line 1 is Series B.
   Line 2 is Series C.
   Line 3 on plate R3-7R is Series B and Series C on plate R3-7L.
4. Corners may be square or rounded when base material is plywood but borders shall be rounded as shown. When base material is metal, the corners and borders shall be rounded.

SIZE	A	B	C	D	E	F	G	H	I	J	K	L	M	N	O	P	Q	R	S	T	U	V	W	X	Y	Z	Area sq. ft.
1	30		1 3/8	1/2	5/8	5	7 3/4	1 3/4	5/8	7 1/8	7 3/4	11 1/4	2 3/8	3/4	9 5/8	4 1/4	4	2 1/2	8 7/8	9 3/4	3/4	1 5/8	8 5/8	1 5/8	5/8		6.25
2S	30		1 3/8	1/2	5/8	5	7 3/4	1 3/4	5/8	7 1/8	7 3/4	11 1/4	2 3/8	3/4	9 5/8	4 1/4	4	2 1/2	8 7/8	9 3/4	3/4	1 5/8	8 5/8	1 5/8	5/8		6.25
2M	30		1 3/8	1/2	5/8	5	7 3/4	1 3/4	5/8	7 1/8	7 3/4	11 1/4	2 3/8	3/4	9 5/8	4 1/4	4	2 1/2	8 7/8	9 3/4	3/4	1 5/8	8 5/8	1 5/8	5/8		6.25
3	36		1 5/8	5/8	3/4	6	9 5/8	2	1 1/8	8 3/4	9	13 1/2	3 7/8	1 1/2	12 1/2	5	5	3	10 5/8	12	7/8	2 1/4	10 5/8	2 1/8	1		9.00
4	48		2 1/4	3/4	1	8	13 1/2	2 3/8	1 1/2	11 1/2	11 7/8	17 3/4	3 5/8	2 1/2	16 3/8	6 1/2	7	4	14 3/8	16 7/8	5/8	3 1/4	15 1/8	2 3/4	1 1/8		16.00
5																											

STANDARD SIGN
R3-7L & R3-7R

WISCONSIN DEPT OF TRANSPORTATION

APPROVED Matthew R Rauch
for State Traffic Engineer

DATE 3/18/2011 PLATE NO. R3-7.3

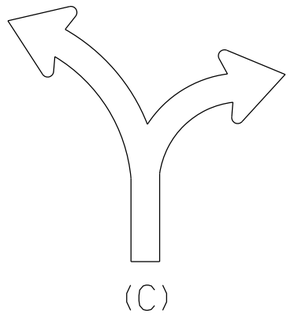
PROJECT NO: | HWY: | COUNTY: | SHEET NO: 171 | E

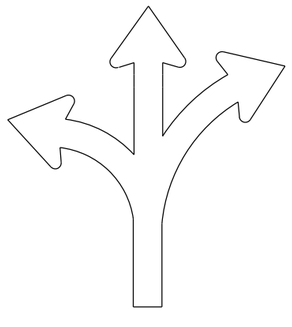


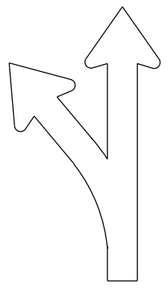
(A)

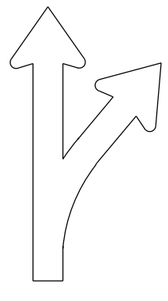


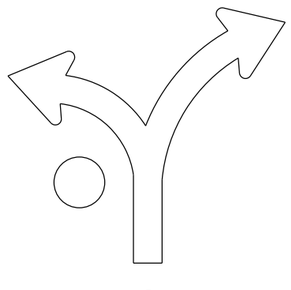
(B)

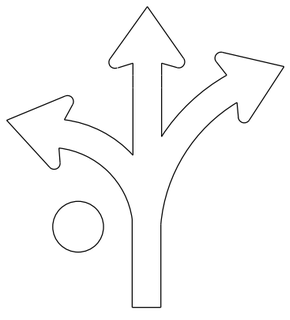

(C)

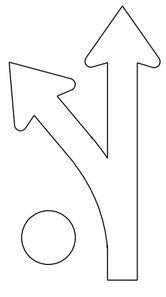

(D)


(E)


(F)

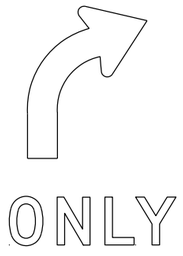

(G)


(H)

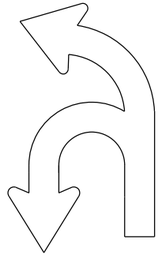

(I)



(L)



(R)


(U)

NOTES

1. Sigs are Type II - Type H Reflective
2. Color:
   Background - White
   Message - Black
3. Message Series - D
4. Use appropriate Letter for Sign Code
   Each letter added makes sign wider. Example R3-8EAR
5. Square footage of sign varies by letters

1 Letter =	3.75 sq ft	for Size 2
	6.0 sq ft	for Size 3
	10.0 sq ft	for Size 4 or 5
2 Letters =	7.5 sq ft	for Size 2
	12.0 sq ft	for Size 3
	20.0 sq ft	for Size 4 or 5
3 Letters =	11.25 sq ft	for Size 2
	18.0 sq ft	for Size 3
	30.0 sq ft	for Size 4 or 5
4 Letters =	15.0 sq ft	for Size 2
	24.0 sq ft	for Size 3
	40.0 sq ft	for Size 4 or 5
5 Letters =	18.75 sq ft	for Size 2
	30.0 sq ft	for Size 3
	50.0 sq ft	for Size 4 or 5
6 Letters =	22.5 sq ft	for Size 2
	36.0 sq ft	for Size 3
	60.0 sq ft	for Size 4 or 5

6. When letters C,D,G,H are used on the Left or Right end of the sign the Sq. Ft. changes.
   Add the amounts when these letters are used:
   1.25 sq ft for Size 2
   1.5 sq ft for Size 3
   2.0 sq ft for Size 4 or 5

STANDARD SIGN
R3-8 Series

WISCONSIN DEPT OF TRANSPORTATION

APPROVED Matthew R Rauch
For State Traffic Engineer

DATE 5/21/19 PLATE NO. R3-8.1

PROJECT NO:

SHEET NO: 172 E

FILE NAME : C:\CAEfiles\Projects\stdplate_R38.dgn PLOT DATE : 21-MAY 2019 4:37 PLOT BY : mscj9h PLOT NAME :

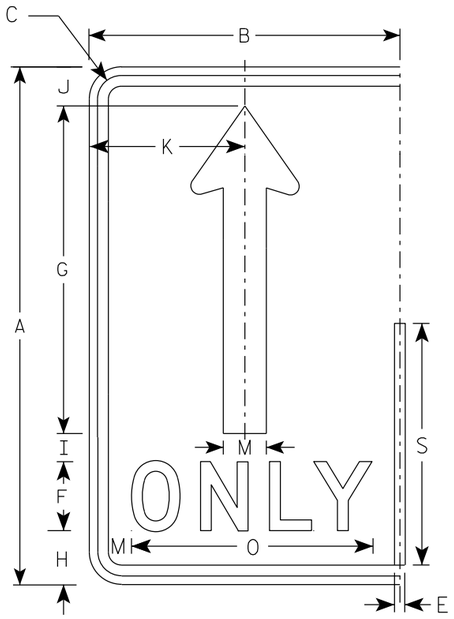
WISDOT/CADDS SHEET 42

7

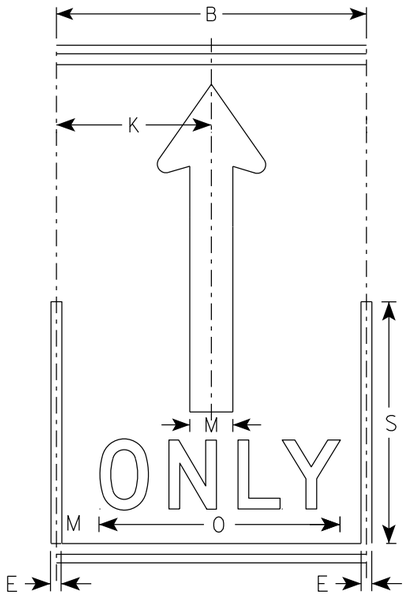
7

NOTES

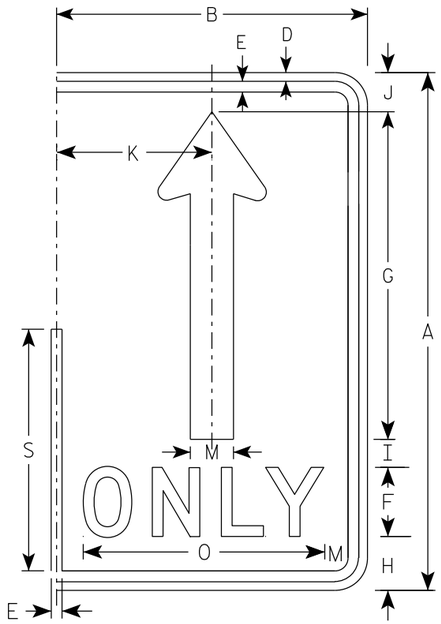
1. Sign is Type II - Type H Reflective
2. Color:
   Background - White
   Message - Black
3. Message Series - D



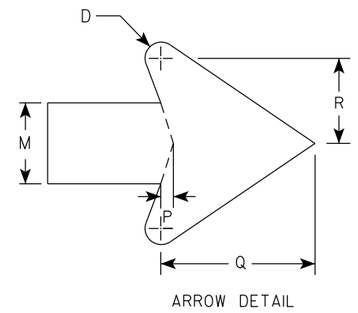
(A)



(A)



(A)



ARROW DETAIL

SIZE	A	B	C	D	E	F	G	H	I	J	K	L	M	N	O	P	Q	R	S	T	U	V	W	X	Y	Z	Area sq. ft.
1																											
2S	30	18	1 3/8	1/2	5/8	4	19	3 1/8	1 5/8	2 1/4	9		2 1/2		14	3/8	4 3/4	2 5/8	14								3.75
2M	30	18	1 3/8	1/2	5/8	4	19	3 1/8	1 5/8	2 1/4	9		2 1/2		14	3/8	4 3/4	2 5/8	14								3.75
3	36	24	1 3/8	1/2	5/8	5	22 3/4	3 3/4	1 3/4	2 3/4	12		3		17 5/8	1/2	5 3/4	3 1/8	16 3/4								6.0
4	48	30	2 1/4	3/4	1	6	30 3/8	5 1/8	2 7/8	3 5/8	15		4		21 3/4	5/8	7 5/8	4 1/4	22 3/8								10.0
5	48	30	2 1/4	3/4	1	6	30 3/8	5 1/8	2 7/8	3 5/8	15		4		21 3/4	5/8	7 5/8	4 1/4	22 3/8								10.0

STANDARD SIGN
R3-8 (A) Arrow

WISCONSIN DEPT OF TRANSPORTATION

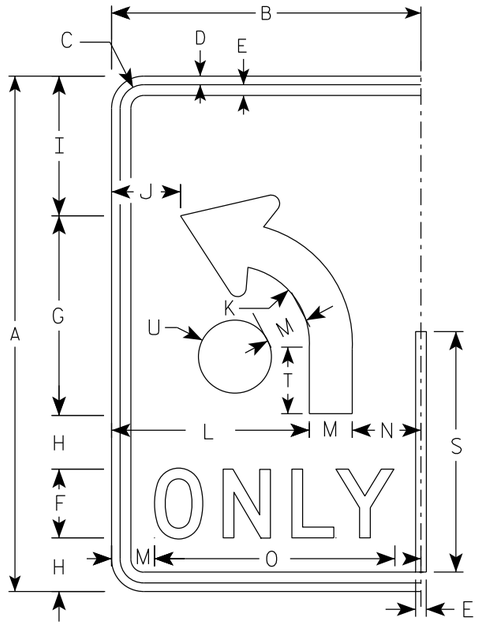
APPROVED Matthew R Rauch
for State Traffic Engineer

DATE 5/21/19 PLATE NO. R3-8.1

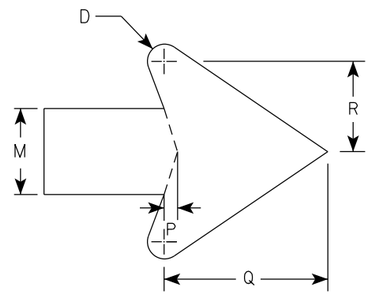
PROJECT NO: | HWY: | COUNTY: | SHEET NO: 173 | E

NOTES

1. Sign is Type II - Type H Reflective
2. Color:
   Background - White
   Message - Black
   Message Series - D



(B)



ARROW DETAIL

SIZE	A	B	C	D	E	F	G	H	I	J	K	L	M	N	O	P	Q	R	S	T	U	V	W	X	Y	Z	Area sq. ft.
1																											
2S	30	18	1 3/8	1/2	5/8	4	11 5/8	3 1/8	8 1/8	4	4 1/2	11 1/2	2 1/2	4	14	3/8	4 3/4	2 5/8	14	3 7/8	2 1/8						3.75
2M	30	18	1 3/8	1/2	5/8	4	11 5/8	3 1/8	8 1/8	4	4 1/2	11 1/2	2 1/2	4	14	3/8	4 3/4	2 5/8	14	3 7/8	2 1/8						3.75
3	36	24	1 3/8	1/2	5/8	5	14	3 1/2	9 3/4	6	5 3/8	15	3	6	17 5/8	1/2	5 3/4	3 1/8	16 3/4	4 5/8	2 1/2						6.0
4	48	30	2 1/4	3/4	1	6	18 5/8	5 1/8	13 1/8	6 1/8	7 1/4	18	4	8	21 3/4	5/8	7 5/8	4 1/4	22 3/8	6 1/4	3 3/8						10.0
5	48	30	2 1/4	3/4	1	6	18 5/8	5 1/8	13 1/8	6 1/8	7 1/4	18	4	8	21 3/4	5/8	7 5/8	4 1/4	22 3/8	6 1/4	3 3/8						10.0

STANDARD SIGN

R3-8 (B) Arrow

WISCONSIN DEPT OF TRANSPORTATION

APPROVED Matthew R Rauch

for State Traffic Engineer

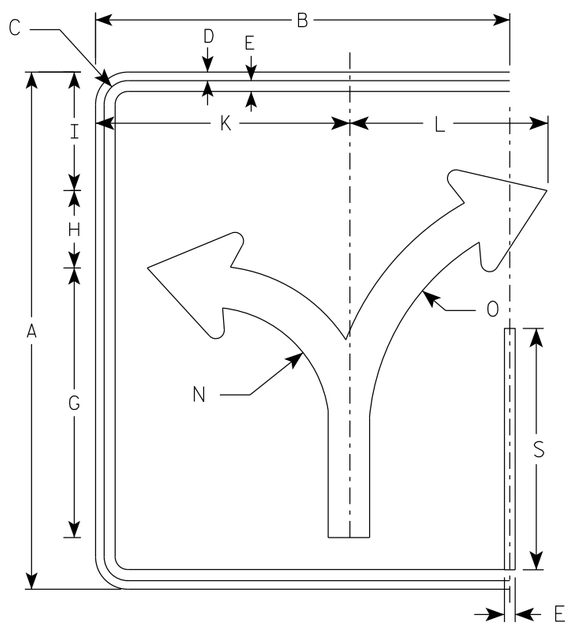
DATE 5/21/19 PLATE NO. R3-8.1

PROJECT NO:

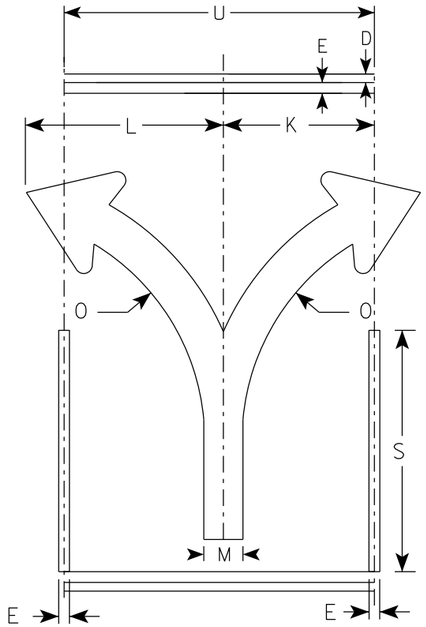
SHEET NO: 174 E

NOTES

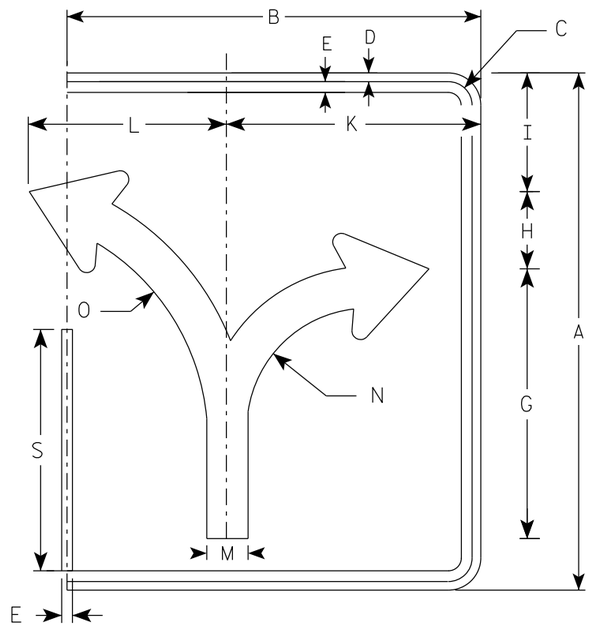
1. Sign is Type II - Type H Reflective
2. Color:
   Background - White
   Message - Black
3. Message Series - None



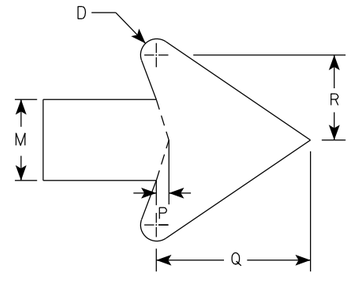
(C)



(C)



(C)



ARROW DETAIL

SIZE	A	B	C	D	E	F	G	H	I	J	K	L	M	N	O	P	Q	R	S	T	U	V	W	X	Y	Z	ENDS Area sq. ft.	MIDDLE Area sq. ft.
1																												
2S	30	24	1 3/8	1/2	5/8		15 5/8	4 1/2	6 7/8		14 3/4	11 1/2	2 3/8	7	13 1/4	3/8	4 1/2	2 1/2	14		18						5.0	3.75
2M	30	24	1 3/8	1/2	5/8		15 5/8	4 1/2	6 7/8		14 3/4	11 1/2	2 3/8	7	13 1/4	3/8	4 1/2	2 1/2	14		18						5.0	3.75
3	36	30	1 3/8	1/2	5/8		18 3/4	5 1/2	8 1/4		17 1/4	17 1/4	2 7/8	8 3/8	16	1/2	5 1/2	3	16 3/4		24						7.5	6.0
4	48	36	2 1/4	3/4	1		24 7/8	7 1/4	11		23 1/8	18	3 3/4	11 1/8	21 1/4	5/8	7 1/8	4	22 3/8		30						12.0	10.0
5	48	36	2 1/4	3/4	1		24 7/8	7 1/4	11		23 1/8	18	3 3/4	11 1/8	21 1/4	5/8	7 1/8	4	22 3/8		30						12.0	10.0

STANDARD SIGN
R3-8 (C) Arrow

WISCONSIN DEPT OF TRANSPORTATION

APPROVED Matthew R Rauch
for State Traffic Engineer

DATE 5/21/19 PLATE NO. R3-8.1

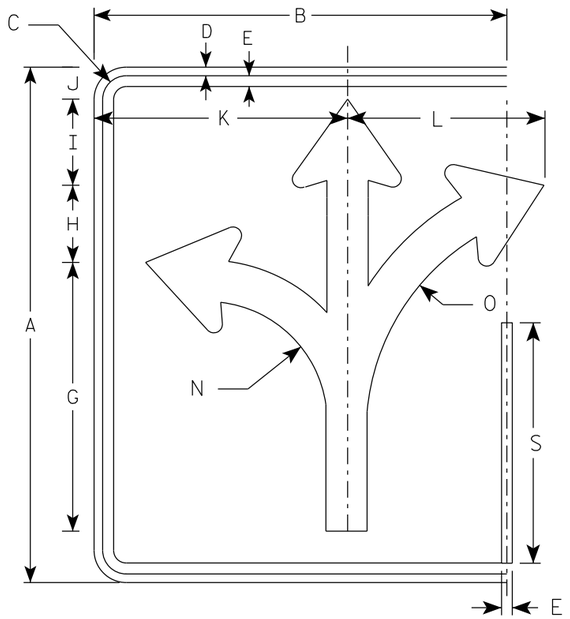
PROJECT NO: | HWY: | COUNTY: | SHEET NO: 175 | E

7

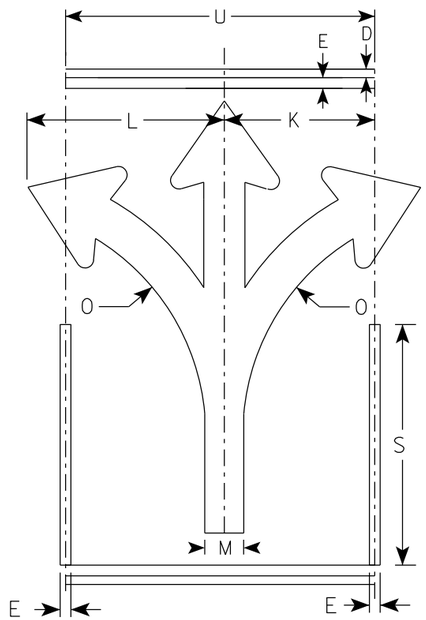
7

NOTES

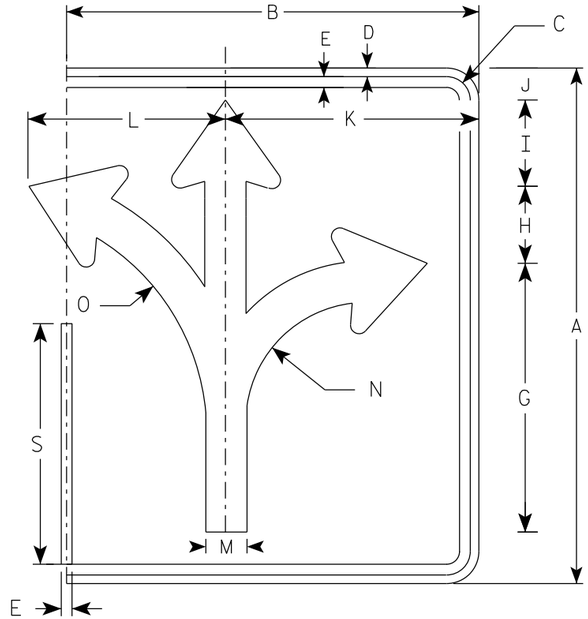
1. Sign is Type II - Type H Reflective
2. Color:
   Background - White
   Message - Black
3. Message Series - None



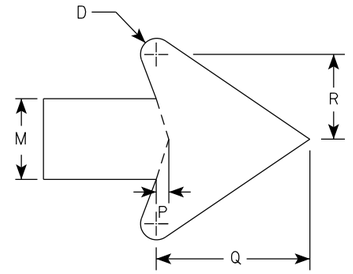
(D)



(D)



(D)



ARROW DETAIL

SIZE	A	B	C	D	E	F	G	H	I	J	K	L	M	N	O	P	Q	R	S	T	U	V	W	X	Y	Z	ENDS Area sq. ft.	MIDDLE Area sq. ft.
1																												
2S	30	24	1 3/8	1/2	5/8		15 5/8	4 1/2	5	1 7/8	14 3/4	11 1/2	2 3/8	7	13 1/4	3/8	4 1/2	2 1/2	14		18						5.0	3.75
2M	30	24	1 3/8	1/2	5/8		15 5/8	4 1/2	5	1 7/8	14 3/4	11 1/2	2 3/8	7	13 1/4	3/8	4 1/2	2 1/2	14		18						5.0	3.75
3	36	30	1 3/8	1/2	5/8		18 3/4	5 1/2	6	2 1/4	17 1/4	17 1/4	2 7/8	8 3/8	16	1/2	5 1/2	3	16 3/4		24						7.5	6.0
4	48	36	2 1/4	3/4	1		24 7/8	7 1/4	7 7/8	3 1/8	23 1/8	18	3 3/4	11 1/8	21 1/4	5/8	7 1/8	4	22 3/8		30						12.0	10.0
5	48	36	2 1/4	3/4	1		24 7/8	7 1/4	7 7/8	3 1/8	23 1/8	18	3 3/4	11 1/8	21 1/4	5/8	7 1/8	4	22 3/8		30						12.0	10.0

STANDARD SIGN
R3-8 (D) Arrow

WISCONSIN DEPT OF TRANSPORTATION

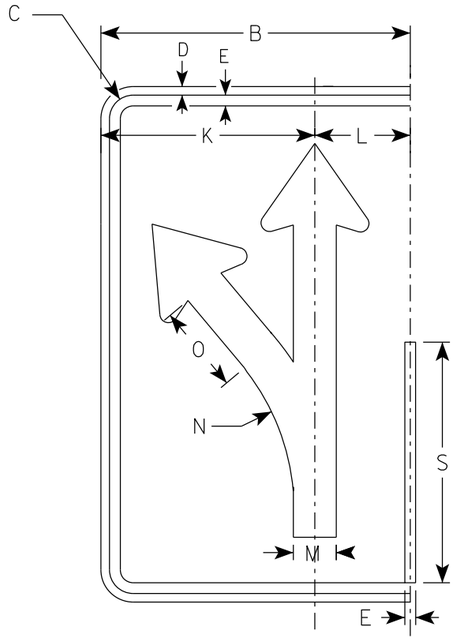
APPROVED Matthew R Rauch
for State Traffic Engineer

DATE 5/21/19 PLATE NO. R3-8.1

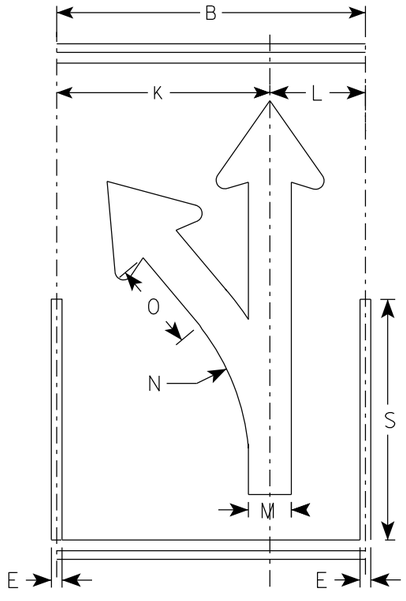
PROJECT NO: | HWY: | COUNTY: | SHEET NO: 176 | E

NOTES

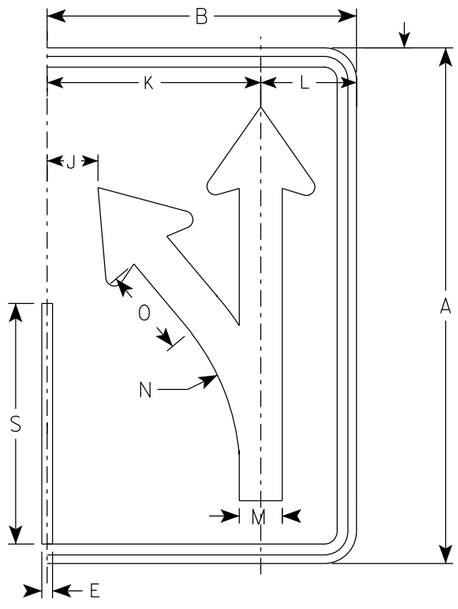
1. Sign is Type II - Type H Reflective
2. Color:
   Background - White
   Message - Black
3. Message Series - None



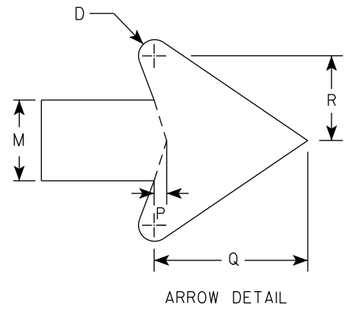
(E)



(E)



(E)



ARROW DETAIL

SIZE	A	B	C	D	E	F	G	H	I	J	K	L	M	N	O	P	Q	R	S	T	U	V	W	X	Y	Z	Area sq. ft.
1																											
2S	30	18	1 3/8	1/2	5/8		18 1/4	4 3/4	3 1/4	3	12 1/2	5 1/2	2 1/2	13 1/4	5 1/8	3/8	4 3/4	2 5/8	14								3.75
2M	30	18	1 3/8	1/2	5/8		18 1/4	4 3/4	3 1/4	3	12 1/2	5 1/2	2 1/2	13 1/4	5 1/8	3/8	4 3/4	2 5/8	14								3.75
3	36	24	1 3/8	1/2	5/8		21 7/8	5 5/8	4	4 7/8	16 1/8	7 3/4	3	15 7/8	6 1/8	1/2	5 3/4	3 1/8	16 3/4								6.0
4	48	30	2 1/4	3/4	1		29 1/8	7 1/2	5 1/4	5 3/8	20 1/2	9 1/2	4	21 1/4	8 1/4	5/8	7 5/8	4 1/4	22 3/8								10.0
5	48	30	2 1/4	3/4	1		29 1/8	7 1/2	5 1/4	5 3/8	20 1/2	9 1/2	4	21 1/4	8 1/4	5/8	7 5/8	4 1/4	22 3/8								10.0

STANDARD SIGN
R3-8 (E) Arrow

WISCONSIN DEPT OF TRANSPORTATION

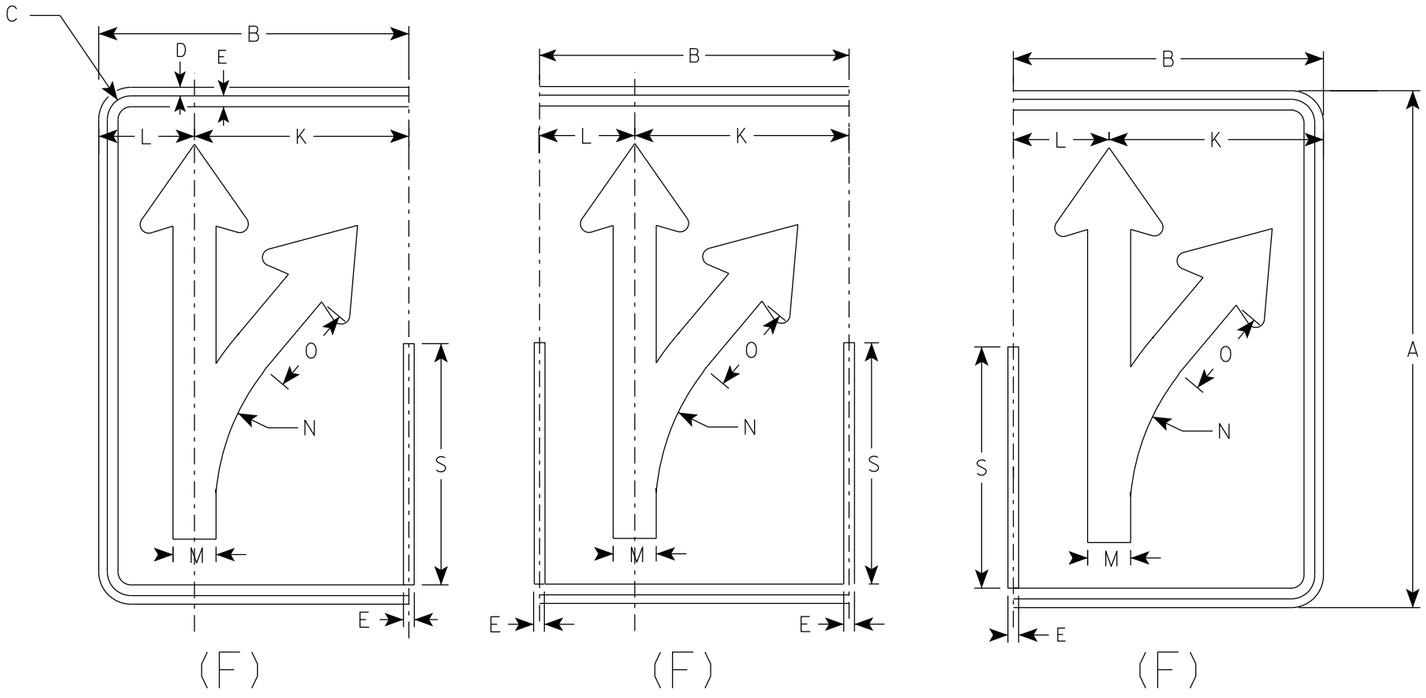
APPROVED Matthew R Rauch
For State Traffic Engineer

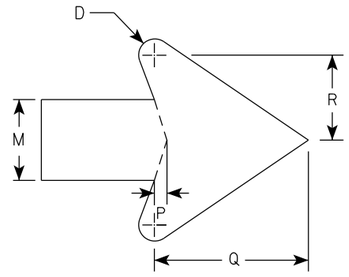
DATE 5/21/19 PLATE NO. R3-8.1

PROJECT NO: | HWY: | COUNTY: | SHEET NO: 177 | E

NOTES

1. Sign is Type II - Type H Reflective
2. Color:
   Background - White
   Message - Black
3. Message Series - None





ARROW DETAIL

SIZE	A	B	C	D	E	F	G	H	I	J	K	L	M	N	O	P	Q	R	S	T	U	V	W	X	Y	Z	Area sq. ft.
1																											
2S	30	18	1 3/8	1/2	5/8		18 1/4	4 3/4	3 1/4	3	12 1/2	5 1/2	2 1/2	13 1/4	5 1/8	3/8	4 3/4	2 5/8	14								3.75
2M	30	18	1 3/8	1/2	5/8		18 1/4	4 3/4	3 1/4	3	12 1/2	5 1/2	2 1/2	13 1/4	5 1/8	3/8	4 3/4	2 5/8	14								3.75
3	36	24	1 3/8	1/2	5/8		21 7/8	5 5/8	4	4 7/8	16 1/8	7 3/4	3	15 7/8	6 1/8	1/2	5 3/4	3 1/8	16 3/4								6.0
4	48	30	2 1/4	3/4	1		29 1/8	7 1/2	5 1/4	5 3/8	20 1/2	9 1/2	4	21 1/4	8 1/4	5/8	7 5/8	4 1/4	22 3/8								10.0
5	48	30	2 1/4	3/4	1		29 1/8	7 1/2	5 1/4	5 3/8	20 1/2	9 1/2	4	21 1/4	8 1/4	5/8	7 5/8	4 1/4	22 3/8								10.0

STANDARD SIGN
R3-8 (F) Arrow

WISCONSIN DEPT OF TRANSPORTATION

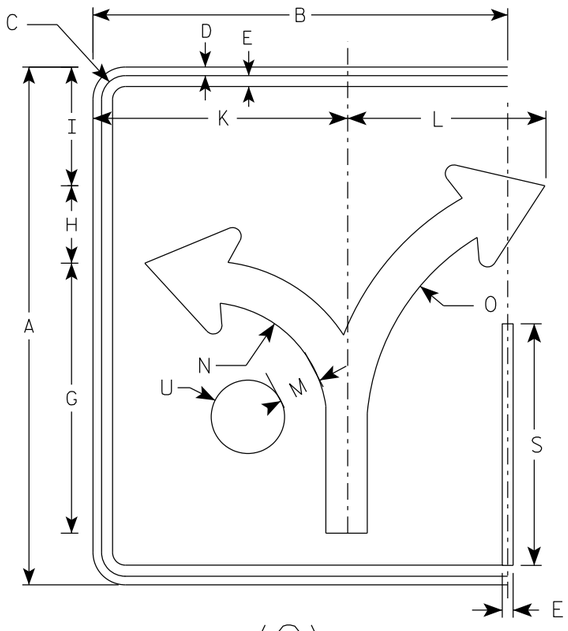
APPROVED Matthew R Rauch
for State Traffic Engineer

DATE 5/21/19 PLATE NO. R3-8.1

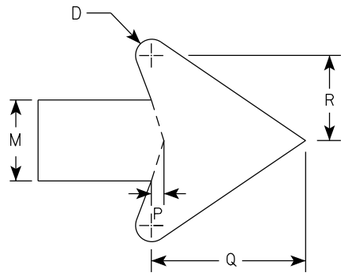
PROJECT NO: | HWY: | COUNTY: | SHEET NO: 178 | E

NOTES

1. Sign is Type II - Type H Reflective
2. Color:
   Background - White
   Message - Black
3. Message Series - None



(G)



ARROW DETAIL

SIZE	A	B	C	D	E	F	G	H	I	J	K	L	M	N	O	P	Q	R	S	T	U	V	W	X	Y	Z	Area sq. ft.
1																											
2S	30	24	1 3/8	1/2	5/8		15 5/8	4 1/2	6 7/8		14 3/4	11 1/2	2 3/8	7	13 1/4	3/8	4 1/2	2 1/2	14		2 1/8						5.0
2M	30	24	1 3/8	1/2	5/8		15 5/8	4 1/2	6 7/8		14 3/4	11 1/2	2 3/8	7	13 1/4	3/8	4 1/2	2 1/2	14		2 1/8						5.0
3	36	30	1 3/8	1/2	5/8		18 3/4	5 1/2	8 1/4		17 1/4	17 1/4	2 7/8	8 3/8	16	1/2	5 1/2	3	16 3/4		2 1/2						7.5
4	48	36	2 1/4	3/4	1		24 7/8	7 1/4	11		23 1/8	18	3 3/4	11 1/8	21 1/4	5/8	7 1/8	4	22 3/8		3 3/8						12.0
5	48	36	2 1/4	3/4	1		24 7/8	7 1/4	11		23 1/8	18	3 3/4	11 1/8	21 1/4	5/8	7 1/8	4	22 3/8		3 3/8						12.0

STANDARD SIGN
R3-8 (G) Arrow

WISCONSIN DEPT OF TRANSPORTATION

APPROVED Matthew R Rauch
for State Traffic Engineer

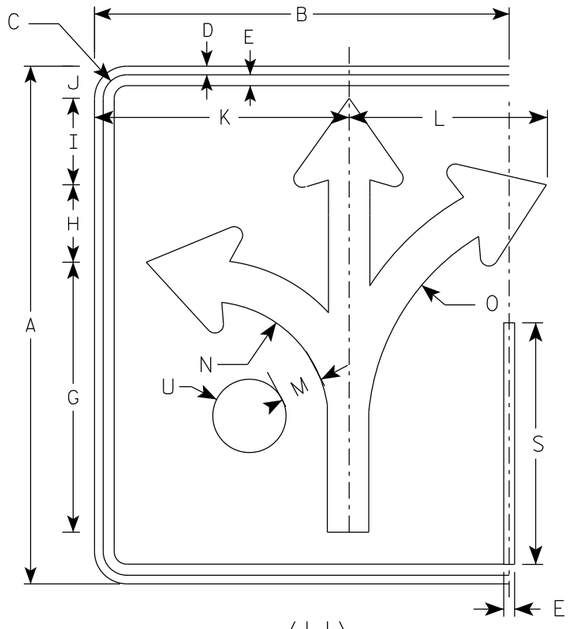
DATE 5/21/19 PLATE NO. R3-8.1

PROJECT NO: | HWY: | COUNTY: | SHEET NO: 179 | E

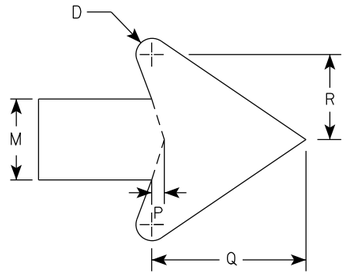
FILE NAME : C:\CAEfiles\Projects\stdplate_R38.dgn PLOT DATE : 21-MAY 2019 4:38 PLOT BY : mscj9h PLOT NAME : PLOT SCALE : $$.....plotscale.....$$ WISDOT/CADDS SHEET 42

NOTES

1. Sign is Type II - Type H Reflective
2. Color:
   Background - White
   Message - Black
3. Message Series - None



(H)



ARROW DETAIL

SIZE	A	B	C	D	E	F	G	H	I	J	K	L	M	N	O	P	Q	R	S	T	U	V	W	X	Y	Z	Area sq. ft.
1																											
2S	30	24	1 3/8	1/2	5/8		15 5/8	4 1/2	5	1 7/8	14 3/4	11 1/2	2 3/8	7	13 1/4	3/8	4 1/2	2 1/2	14		2 1/8						5.0
2M	30	24	1 3/8	1/2	5/8		15 5/8	4 1/2	5	1 7/8	14 3/4	11 1/2	2 3/8	7	13 1/4	3/8	4 1/2	2 1/2	14		2 1/8						5.0
3	36	30	1 3/8	1/2	5/8		18 3/4	5 1/2	6	3 1/8	17 1/4	17 1/4	2 7/8	8 3/8	16	1/2	5 1/2	3	16 3/4		2 1/2						7.5
4	48	36	2 1/4	3/4	1		24 7/8	7 1/4	7 7/8	3 1/8	23 1/8	18	3 3/4	11 1/8	21 1/4	5/8	7 1/8	4	22 3/8		3 3/8						12.0
5	48	36	2 1/4	3/4	1		24 7/8	7 1/4	7 7/8	3 1/8	23 1/8	18	3 3/4	11 1/8	21 1/4	5/8	7 1/8	4	22 3/8		3 3/8						12.0

STANDARD SIGN
R3-8 (H) Arrow

WISCONSIN DEPT OF TRANSPORTATION

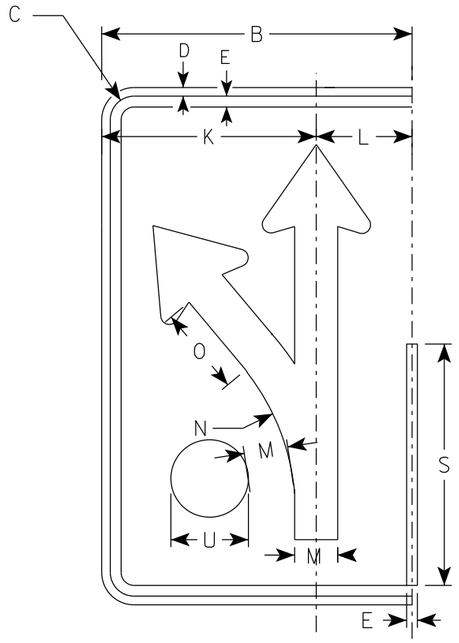
APPROVED Matthew R Rauch
for State Traffic Engineer

DATE 5/21/19 PLATE NO. R3-8.1

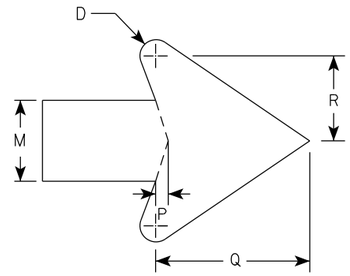
PROJECT NO:	HWY:	COUNTY:		SHEET NO: 180	E

NOTES

1. Sign is Type II - Type H Reflective
2. Color:
   Background - White
   Message - Black
3. Message Series - None



(I)



ARROW DETAIL

SIZE	A	B	C	D	E	F	G	H	I	J	K	L	M	N	O	P	Q	R	S	T	U	V	W	X	Y	Z	Area sq. ft.
1																											
2S	30	18	1 3/8	1/2	5/8		18 1/4	4 3/4	3 1/4	3	12 1/2	5 1/2	2 1/2	13 1/4	5 1/8	3/8	4 3/4	2 5/8	14		2 1/8						3.75
2M	30	18	1 3/8	1/2	5/8		18 1/4	4 3/4	3 1/4	3	12 1/2	5 1/2	2 1/2	13 1/4	5 1/8	3/8	4 3/4	2 5/8	14		2 1/8						3.75
3	36	24	1 3/8	1/2	5/8		21 7/8	5 5/8	4	4 7/8	16 1/8	7 3/4	3	15 7/8	6 1/8	1/2	5 3/4	3 1/8	16 3/4		2 1/2						6.0
4	48	30	2 1/4	3/4	1		29 1/8	7 1/2	5 1/4	5 3/8	20 1/2	9 1/2	4	21 1/4	8 1/4	5/8	7 5/8	4 1/4	22 3/8		3 3/8						10.0
5	48	30	2 1/4	3/4	1		29 1/8	7 1/2	5 1/4	5 3/8	20 1/2	9 1/2	4	21 1/4	8 1/4	5/8	7 5/8	4 1/4	22 3/8		3 3/8						10.0

STANDARD SIGN
R3-8 (I) Arrow

WISCONSIN DEPT OF TRANSPORTATION

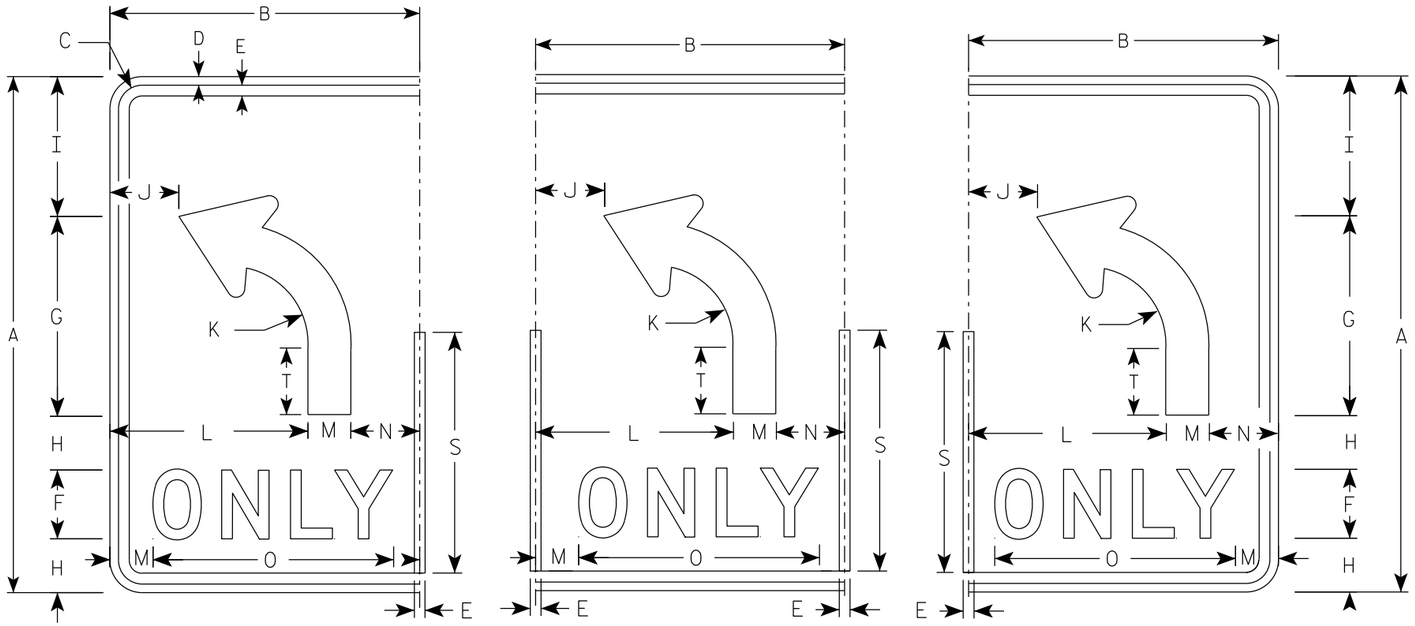
APPROVED Matthew R Rauch
For State Traffic Engineer

DATE 5/21/19 PLATE NO. R3-8.1

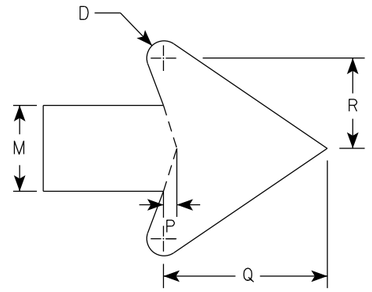
PROJECT NO: | HWY: | COUNTY: | SHEET NO: 181 | E

NOTES

1. Sign is Type II - Type H Reflective
2. Color:
   Background - White
   Message - Black
3. Message Series - D



(L) (L) (L)



ARROW DETAIL

SIZE	A	B	C	D	E	F	G	H	I	J	K	L	M	N	O	P	Q	R	S	T	U	V	W	X	Y	Z	Area sq. ft.
1																											
2S	30	18	1 3/8	1/2	5/8	4	11 5/8	3 1/8	8 1/8	4	4 1/2	11 1/2	2 1/2	4	14	3/8	4 3/4	2 5/8	14	3 7/8							3.75
2M	30	18	1 3/8	1/2	5/8	4	11 5/8	3 1/8	8 1/8	4	4 1/2	11 1/2	2 1/2	4	14	3/8	4 3/4	2 5/8	14	3 7/8							3.75
3	36	24	1 3/8	1/2	5/8	5	14	3 1/2	9 3/4		5 3/8	15	3	6	17 5/8	1/2	5 3/4	3 1/8	16 3/4	4 5/8							6.0
4	48	30	2 1/4	3/4	1	6	18 5/8	5 1/8	13 1/8	6 1/8	7 1/4	18	4	8	21 3/4	5/8	7 5/8	4 1/4	22 3/8	6 1/4							10.0
5	48	30	2 1/4	3/4	1	6	18 5/8	5 1/8	13 1/8	6 1/8	7 1/4	18	4	8	21 3/4	5/8	7 5/8	4 1/4	22 3/8	6 1/4							10.0

STANDARD SIGN

R3-8 (L) Arrow

WISCONSIN DEPT OF TRANSPORTATION

APPROVED Matthew R Rauch
for State Traffic Engineer

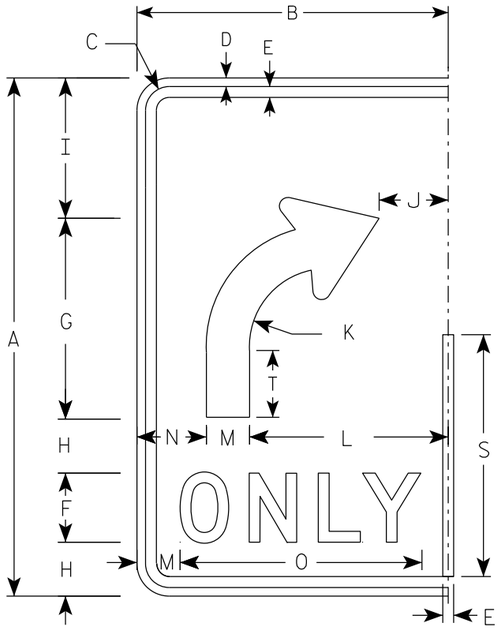
DATE 5/21/19 PLATE NO. R3-8.1

PROJECT NO:

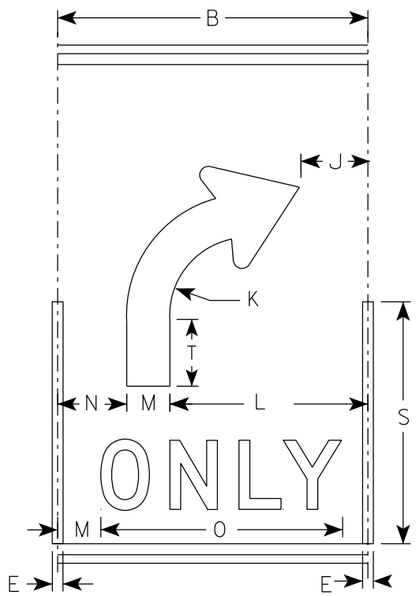
SHEET NO: 182 E

NOTES

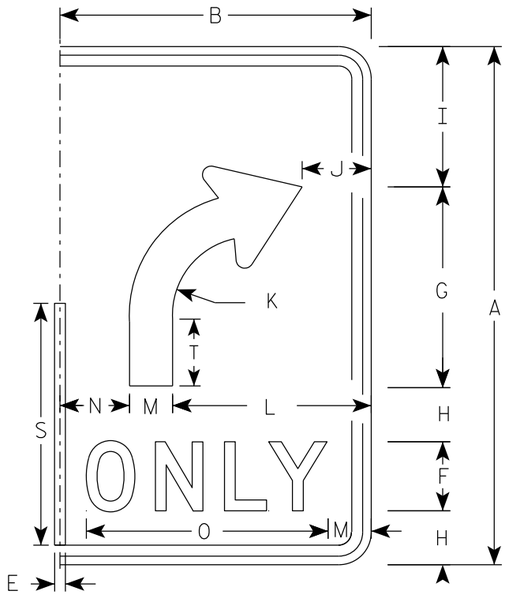
1. Sign is Type II - Type H Reflective
2. Color:
   Background - White
   Message - Black
3. Message Series - D



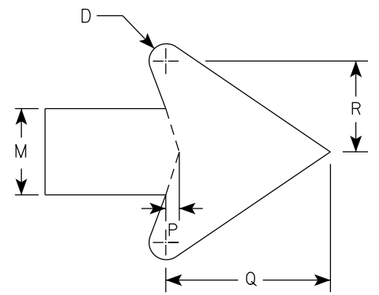
(R)



(R)



(R)



ARROW DETAIL

SIZE	A	B	C	D	E	F	G	H	I	J	K	L	M	N	O	P	Q	R	S	T	U	V	W	X	Y	Z	Area sq. ft.
1																											
2S	30	18	1 3/8	1/2	5/8	4	11 5/8	3 1/8	8 1/8	4	4 1/2	11 1/2	2 1/2	4	14	3/8	4 3/4	2 5/8	14	3 7/8							3.75
2M	30	18	1 3/8	1/2	5/8	4	11 5/8	3 1/8	8 1/8	4	4 1/2	11 1/2	2 1/2	4	14	3/8	4 3/4	2 5/8	14	3 7/8							3.75
3	36	24	1 3/8	1/2	5/8	5	14	3 1/2	9 3/4	6	5 3/8	15	3	6	17 5/8	1/2	5 3/4	3 1/8	16 3/4	4 5/8							6.0
4	48	30	2 1/4	3/4	1	6	18 5/8	5 1/8	13 1/8	6 1/8	7 1/4	18	4	8	21 3/4	5/8	7 5/8	4 1/4	22 3/8	6 1/4							10.0
5	48	30	2 1/4	3/4	1	6	18 5/8	5 1/8	13 1/8	6 1/8	7 1/4	18	4	8	21 3/4	5/8	7 5/8	4 1/4	22 3/8	6 1/4							10.0

STANDARD SIGN
R3-8 (R) Arrow

WISCONSIN DEPT OF TRANSPORTATION

APPROVED Matthew R Rauch
for State Traffic Engineer

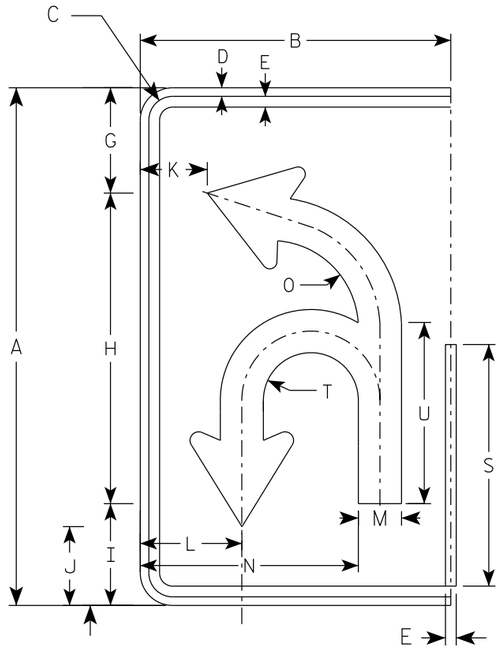
DATE 5/21/19 PLATE NO. R3-8.1

PROJECT NO:

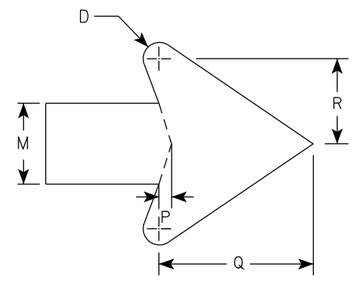
SHEET NO: 183 E

NOTES

1. Sign is Type II - Type H Reflective
2. Color:
   Background - White
   Message - Black
3. Message Series - None



(U)



ARROW DETAIL

SIZE	A	B	C	D	E	F	G	H	I	J	K	L	M	N	O	P	Q	R	S	T	U	V	W	X	Y	Z	Area sq. ft.
1																											
2S	30	18	1 3/8	1/2	5/8		6 1/8	18	5 7/8	4 5/8	3 7/8	5 7/8	2 1/2	12 5/8	5 1/8	3/8	4 3/4	2 5/8	14	2 3/4	10 1/2						3.75
2M	30	18	1 3/8	1/2	5/8		6 1/8	18	5 7/8	4 5/8	3 7/8	5 7/8	2 1/2	12 5/8	5 1/8	3/8	4 3/4	2 5/8	14	2 3/4	10 1/2						3.75
3	36	24	1 3/8	1/2	5/8		21 7/8	21 5/8	7 1/8	5 1/2	5 7/8	8 1/4	3	16 3/8	6 1/8	1/2	5 3/4	3 1/8	16 3/4	3 1/4	12 5/8						6.0
4	48	30	2 1/4	3/4	1		29 1/8	28 3/4	9 3/8	7 1/4	6 7/8	10	4	20 7/8	8 1/8	5/8	7 5/8	4 1/4	22 3/8	4 3/8	16 3/4						10.0
5	48	30	2 1/4	3/4	1		29 1/8	28 3/4	9 3/8	7 1/4	6 7/8	10	4	20 7/8	8 1/8	5/8	7 5/8	4 1/4	22 3/8	4 3/8	16 3/4						10.0

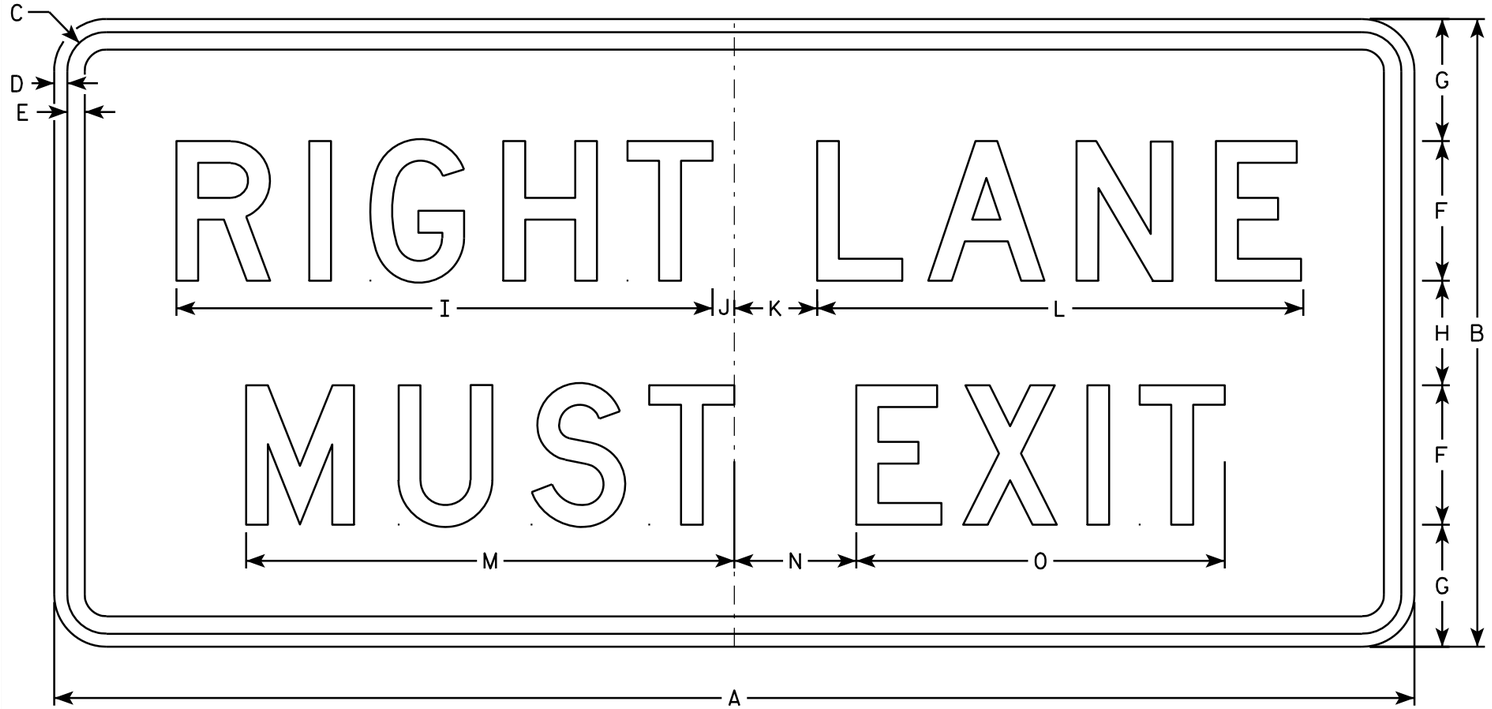
STANDARD SIGN
R3-8 (U) Arrow

WISCONSIN DEPT OF TRANSPORTATION

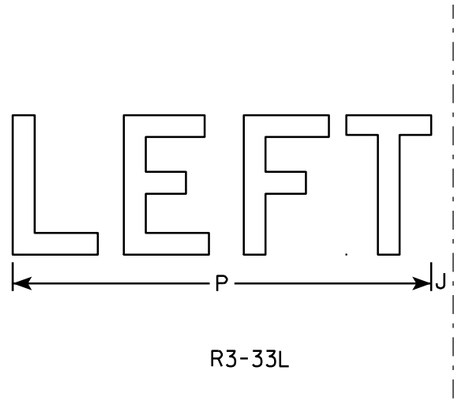
APPROVED Matthew R Rauch
for State Traffic Engineer

DATE 5/21/19 PLATE NO. R3-8.1

PROJECT NO: | HWY: | COUNTY: | SHEET NO: 184 | E



R3-33R



R3-33L

NOTES

1. Sign is Type II - Type H Reflective - reference WIS DOT Standard Specification for HIGHWAY and STRUCTURE CONSTRUCTION latest edition.
2. Color:
   Background - White
   Message - Black
3. Message Series - D
4. Corners may be square or rounded when base material is plywood but borders shall be rounded as shown. When base material is metal, the corners and borders shall be rounded.

SIZE	A	B	C	D	E	F	G	H	I	J	K	L	M	N	O	P	Q	R	S	T	U	V	W	X	Y	Z	Area sq. ft.
1																											
2S																											
2M																											
3																											
4	78	36	2 1/4	3/4	1	8	7	6	30 3/4	1 1/4	4 3/4	27 7/8	28	7	21 1/8	24											19.5
5	78	36	2 1/4	3/4	1	8	7	6	30 3/4	1 1/4	4 3/4	27 7/8	28	7	21 1/8	24											19.5

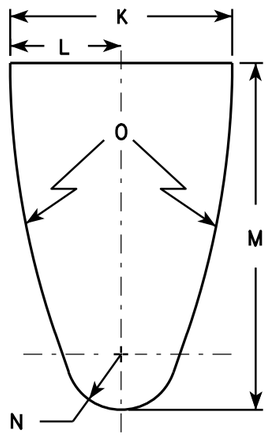
STANDARD SIGN
R3-33

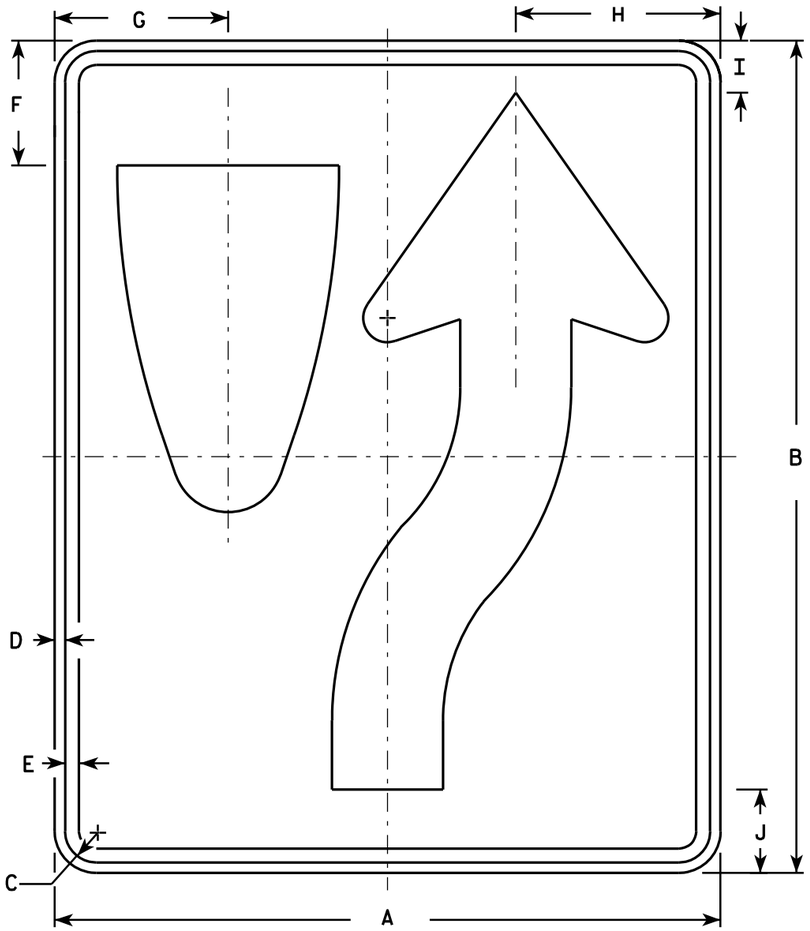
WISCONSIN DEPT OF TRANSPORTATION

APPROVED Matthew R Rauch
for State Traffic Engineer

DATE 10/7/10 PLATE NO. R3-33.1

PROJECT NO: | HWY: | COUNTY: | SHEET NO: 185 | E

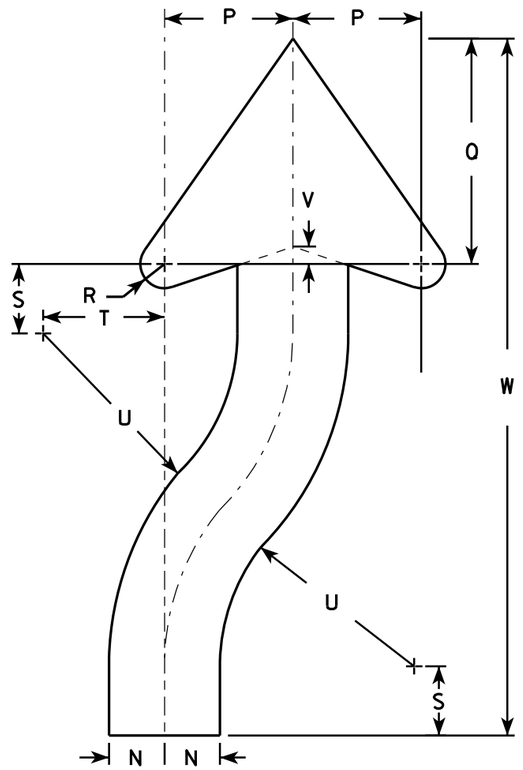




R4-7

NOTES

1. Sign is Type II - Type H Reflective - reference WIS DOT Standard Specification for HIGHWAY and STRUCTURE CONSTRUCTION latest edition. material is plywood but borders shall be rounded
2. Color:
   Background - White
   Message - Black
3. Corners may be square or rounded when base as shown. When base material is metal, the corners and borders shall be rounded.
4. R4-8 is the same as R4-7 except Legend is reversed.



ARROW DETAIL

SIZE	A	B	C	D	E	F	G	H	I	J	K	L	M	N	O	P	Q	R	S	T	U	V	W	X	Y	Z	Area sq. ft.
1	18	24	1 1/8	3/8	1/2	3 3/8	4 3/4	5 1/2	1 3/8	2 1/4	6	3	9 3/8	1 1/2	22 1/2	3 1/2	6 1/8	5/8	1 7/8	3 1/4	6 3/4	1/2	20 3/8				3.0
2S	24	30	1 1/8	3/8	1/2	4 1/2	6 1/4	7 3/8	1 7/8	3	8	4	12 1/2	2	30	4 5/8	8 1/8	7/8	2 1/2	4 3/8	9	5/8	25 1/8				5.0
2M	24	30	1 1/8	3/8	1/2	4 1/2	6 1/4	7 3/8	1 7/8	3	8	4	12 1/2	2	30	4 5/8	8 1/8	7/8	2 1/2	4 3/8	9	5/8	25 1/8				5.0
3	36	48	1 3/4	1/2	5/8	6 3/4	9 3/8	11 1/8	2 7/8	4 1/2	12	6	18 3/4	3	45	6 7/8	12 1/4	1 1/4	3 3/4	6 5/8	13 1/2	1	40 3/4				12.0
4	36	48	1 3/4	1/2	5/8	6 3/4	9 3/8	11 1/8	2 7/8	4 1/2	12	6	18 3/4	3	45	6 7/8	12 1/4	1 1/4	3 3/4	6 5/8	13 1/2	1	40 3/4				12.0
5	48	60	2 1/4	3/4	1	9	12 1/2	14 3/4	3 3/4	6	16	8	25	4	60	9 1/4	16 1/4	1 5/8	5	8 3/4	18	1 1/4	50 1/4				20.0

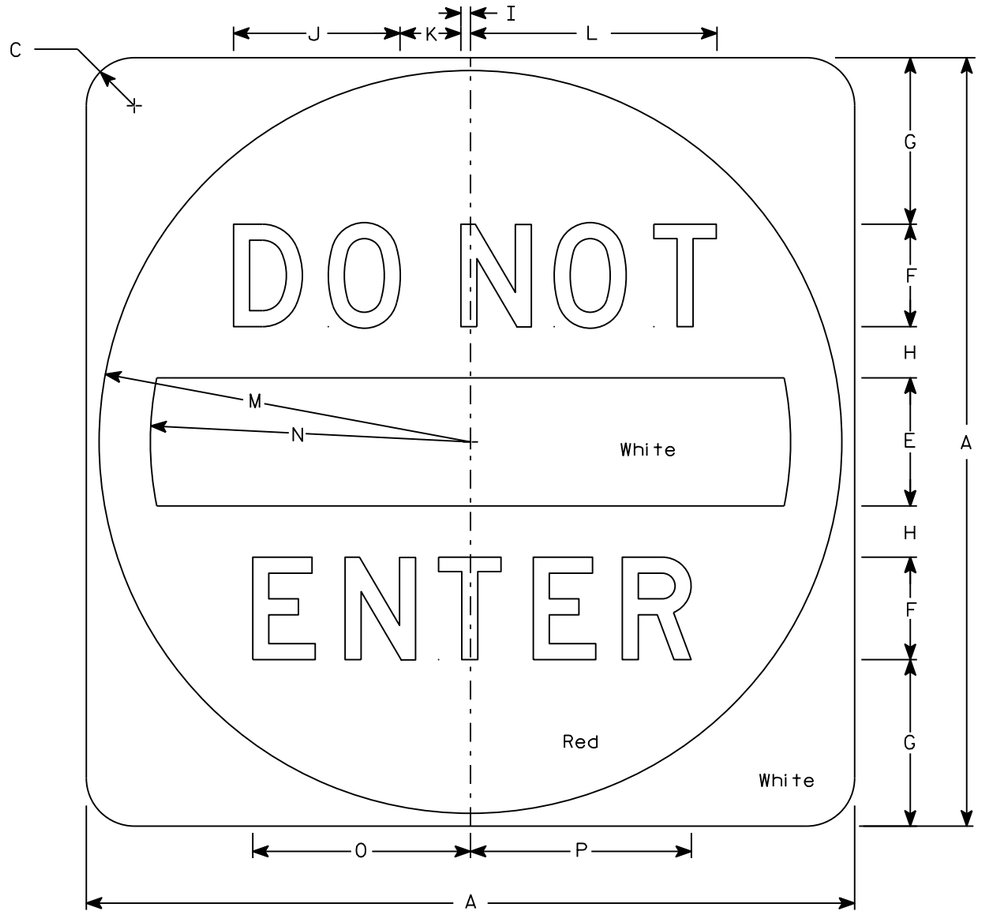
STANDARD SIGN
R4-7 & R4-8

WISCONSIN DEPT OF TRANSPORTATION

APPROVED Matthew R Rauch for State Traffic Engineer

DATE 3/25/2011 PLATE NO. R4-7.8

PROJECT NO:	HWY:	COUNTY:		SHEET NO: 186	E



R5-1

NOTES

1. Sign is Type II - Type H Reflective
2. Color:
   Background - See detail
   Message - White
3. Message Series - D

SIZE	A	B	C	D	E	F	G	H	I	J	K	L	M	N	O	P	Q	R	S	T	U	V	W	X	Y	Z	Area sq. ft.
1																											
2S	30		1 7/8		5	4	6 1/2	2	3/8	6 1/2	2 3/8	9 5/8	14 1/2	12 1/2	8 1/2	8 5/8											6.25
2M	36		2 1/4		6	5	7 1/2	2 1/2	1/2	8 1/8	3	12 1/8	17 1/2	15	10 5/8	10 3/4											9.0
3	36		2 1/4		6	5	7 1/2	2 1/2	1/2	8 1/8	3	12 1/8	17 1/2	15	10 5/8	10 3/4											9.0
4	36		2 1/4		6	5	7 1/2	2 1/2	1/2	8 1/8	3	12 1/8	17 1/2	15	10 5/8	10 3/4											9.0
5	48		3		8	6	11	3	5/8	9 3/4	3 5/8	14 1/2	23 1/2	20	12 3/4	12 7/8											16.0

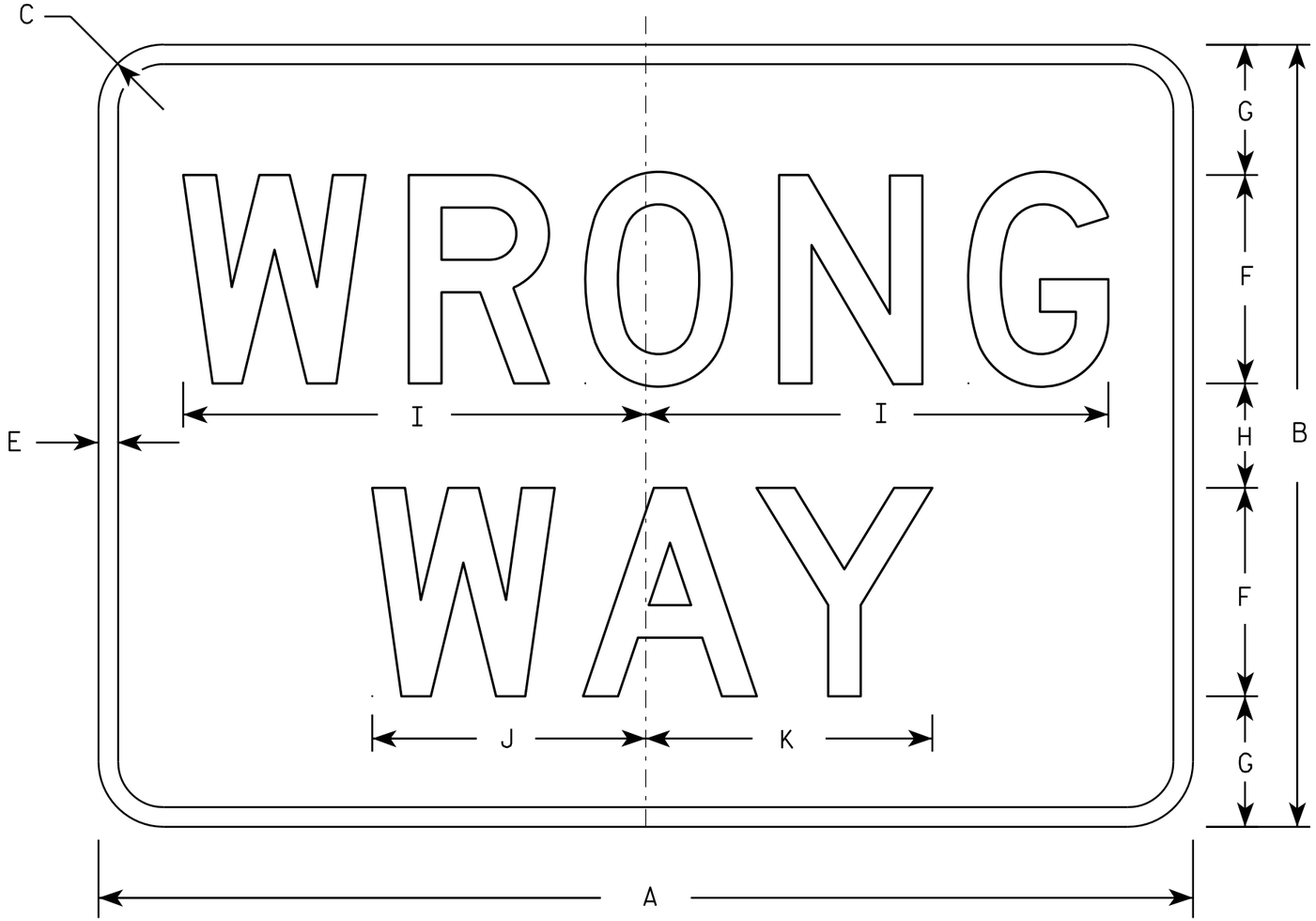
STANDARD SIGN
R5-1

WISCONSIN DEPT OF TRANSPORTATION

APPROVED Matthew R Rauch
for State Traffic Engineer

DATE 3/15/18 PLATE NO. R5-1.16

PROJECT NO: | HWY: | COUNTY: | SHEET NO: 187 | E



R5-1A

NOTES

1. Sign is Type II - Type H Reflective - reference WIS DOT Standard Specification for HIGHWAY and STRUCTURE CONSTRUCTION latest edition.
2. Color:
   Background - Red
   Message - White
3. Message Series - D
4. Corners may be square or rounded when base material is plywood but borders shall be rounded as shown. When base material is metal, the corners and borders shall be rounded.

SIZE	A	B	C	D	E	F	G	H	I	J	K	L	M	N	O	P	Q	R	S	T	U	V	W	X	Y	Z	Area sq. ft.
1	30	18	1 1/2		1/2	5	3	2	11	6 1/2	6 7/8																3.75
2S	36	24	2		5/8	6	4 1/2	3	13 1/4	7 7/8	8 1/4																6.00
2M	42	30	2 1/2		3/4	8	5	4	17 3/4	10 1/2	11																8.75
3	42	30	2 1/2		3/4	8	5	4	17 3/4	10 1/2	11																8.75
4	42	30	2 1/2		3/4	8	5	4	17 3/4	10 1/2	11																8.75
5	42	30	2 1/2		3/4	8	5	4	17 3/4	10 1/2	11																8.75

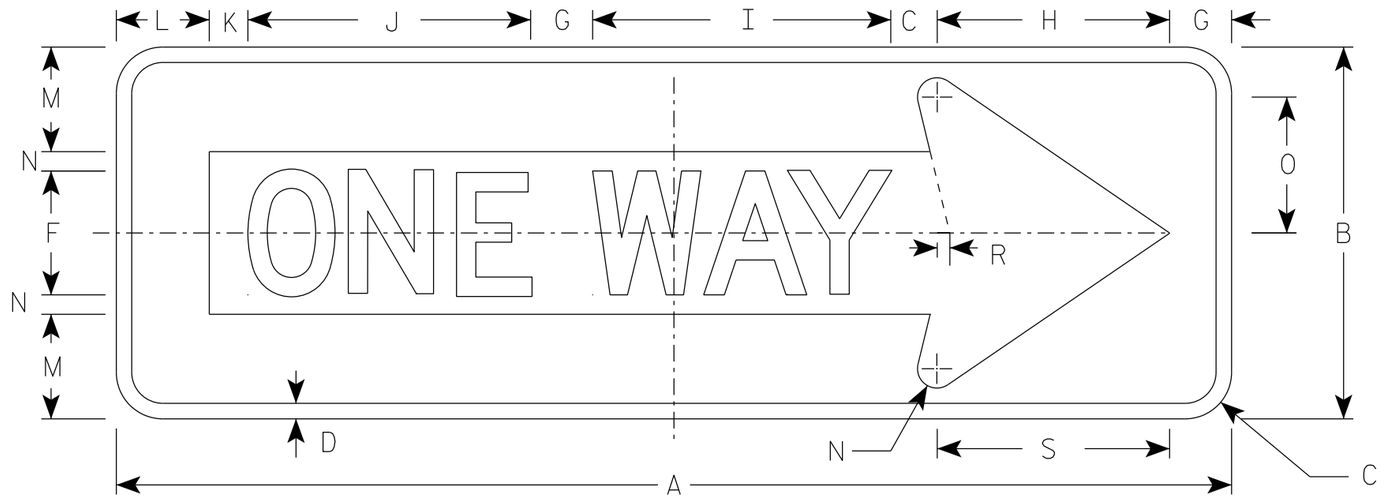
STANDARD SIGN
R5-1A

WISCONSIN DEPT OF TRANSPORTATION

APPROVED Matthew R Rauch
for State Traffic Engineer

DATE 12/17/10 PLATE NO. R5-1A.2

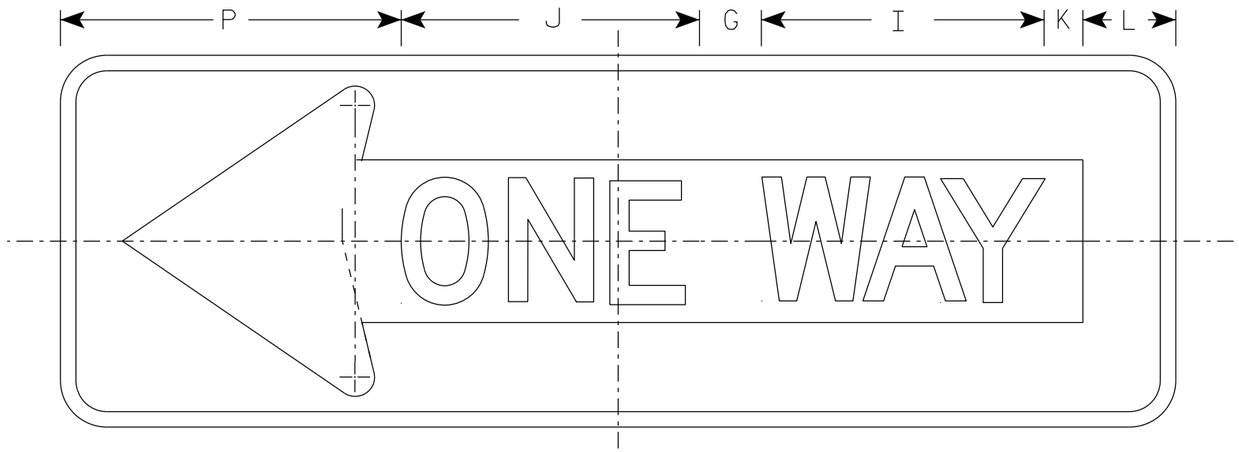
PROJECT NO:	HWY:	COUNTY:		SHEET NO: 188	E



R6-1R

NOTES

1. Sign is Type II - Type H Reflective
2. Color:
   Background - BLACK
   Message - BLACK LEGEND & WHITE ARROW & BORDER
3. Message Series - D



R6-1L

SIZE	A	B	C	D	E	F	G	H	I	J	K	L	M	N	O	P	Q	R	S	T	U	V	W	X	Y	Z	Area sq. ft.
1																											
2S	36	12	1 1/2	1/2		4	2	7 1/2	9 5/8	9 1/8	1 1/4	3	3 3/8	5/8	4 3/8	11		3/8	7 1/2								3.0
2M	54	18	2 1/4	3/4		6	3	11 1/4	13 5/8	14 1/2	1 7/8	4 1/2	5	1	6 1/2	16 1/2		5/8	11 1/4								6.75
3	54	18	2 1/4	3/4		6	3	11 1/4	13 5/8	14 1/2	1 7/8	4 1/2	5	1	6 1/2	16 1/2		5/8	11 1/4								6.75
4	54	18	2 1/4	3/4		6	3	11 1/4	13 5/8	14 1/2	1 7/8	4 1/2	5	1	6 1/2	16 1/2		5/8	11 1/4								6.75
5																											

STANDARD SIGN
R6-1 L & R

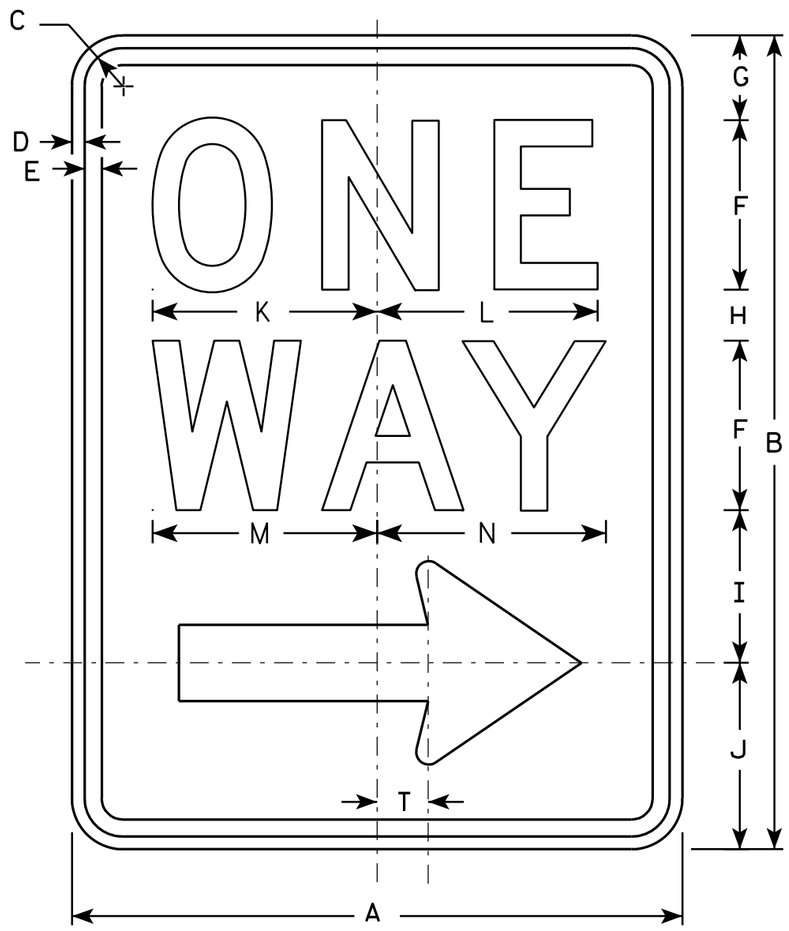
WISCONSIN DEPT OF TRANSPORTATION

APPROVED Matthew R Rauch
for State Traffic Engineer

DATE 07/11/18 PLATE NO. R6-1.3

PROJECT NO:

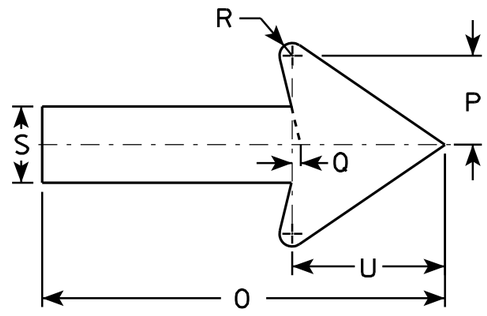
SHEET NO: 189 E



R6-2R

NOTES

1. Sign is Type II - Type H Reflective - reference WIS DOT Standard Specification for HIGHWAY and STRUCTURE CONSTRUCTION latest edition.
2. Color:
   Background - White
   Message - Black
3. Message Series - D
4. Corners may be square or rounded when base material is plywood but borders shall be rounded as shown. When base material is metal, the corners and borders shall be rounded.
5. R6-2L same as R6-2R except arrow points to the left.



SIZE	A	B	C	D	E	F	G	H	I	J	K	L	M	N	O	P	Q	R	S	T	U	V	W	X	Y	Z
1	18	24	1 1/8	3/8	1/2	5	2 1/2	1 1/2	4 1/2	5 1/2	6 5/8	6 1/2	6 5/8	6 3/4	11 7/8	2 5/8	1/4	3/8	2 1/4	1 1/2	4 1/2					
2S	24	30	1 1/8	3/8	1/2	6	3	2 1/2	5 1/2	7	8 1/8	8 1/8	8 1/2	8 5/8	16	3 1/2	3/8	1/2	3	2	6					
2M	30	36	1 3/8	1/2	5/8	8	2 1/2	2 5/8	6 7/8	8	10 1/2	10 1/2	11 1/4	11 1/4	20	4 3/8	1/2	5/8	3 3/4	2 1/2	7 1/2					
3	36	48	1 7/8	1/2	5/8	10	5 1/4	3 1/4	9	10 1/2	12 3/4	12 3/4	13 1/4	13 1/2	24	5 5/8	1/2	3/4	4 3/4	3	9					
4	36	48	1 7/8	1/2	5/8	10	5 1/4	3 1/4	9	10 1/2	12 3/4	12 3/4	13 1/4	13 1/2	24	5 5/8	1/2	3/4	4 3/4	3	9					
5																										

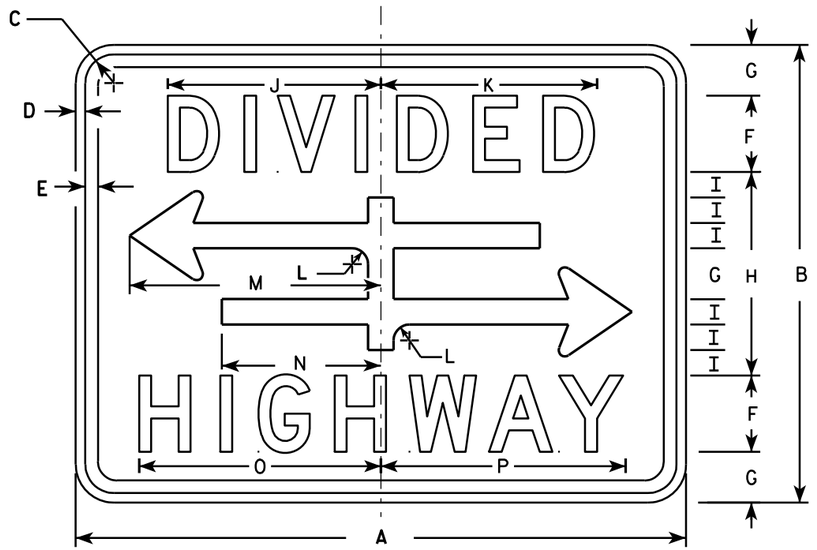
STANDARD SIGN
R6-2 R&L

WISCONSIN DEPT OF TRANSPORTATION

APPROVED Matthew R Rauch
for State Traffic Engineer

DATE 11/2/10 PLATE NO. R6-2.8

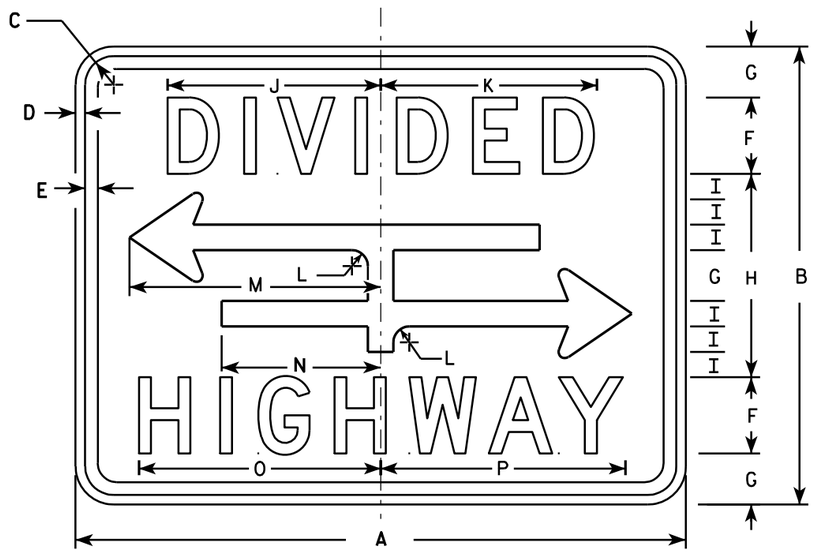
PROJECT NO:	HWY:	COUNTY:		SHEET NO: 190	E



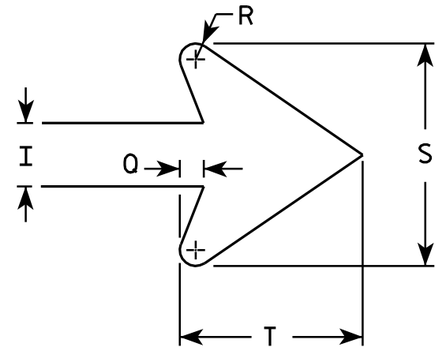
R6-3

NOTES

1. Sign is Type II - Type H Reflective - reference WIS DOT Standard Specification for HIGHWAY and STRUCTURE CONSTRUCTION latest edition.
2. Color:
   Background - White
   Message - Black
3. Message Series - D
4. Corners may be square or rounded when base material is plywood but borders shall be rounded as shown. When base material is metal, the corners and borders shall be rounded.



R6-3A



ARROW DETAIL

SIZE	A	B	C	D	E	F	G	H	I	J	K	L	M	N	O	P	Q	R	S	T	U	V	W	X	Y	Z	Area sq. ft.
1	24	18	1 1/8	3/8	3/8	3	2	8	1	8 3/8	8 1/2	5/8	9 7/8	6 1/4	9 1/2	9 5/8	3/8	1/4	3 1/2	2 3/4							3.0
2S	30	24	1 1/8	3/8	1/2	4	2 5/8	10 3/4	1 3/8	10 1/2	10 5/8	7/8	12 1/2	7 7/8	12 1/4	12 3/8	1/2	3/8	4 5/8	3 5/8							5.0
2M	30	24	1 1/8	3/8	1/2	4	2 5/8	10 3/4	1 3/8	10 1/2	10 5/8	7/8	12 1/2	7 7/8	12 1/4	12 3/8	1/2	3/8	4 5/8	3 5/8							5.0
3																											
4																											
5																											

STANDARD SIGN
R6-3 & R6-3A

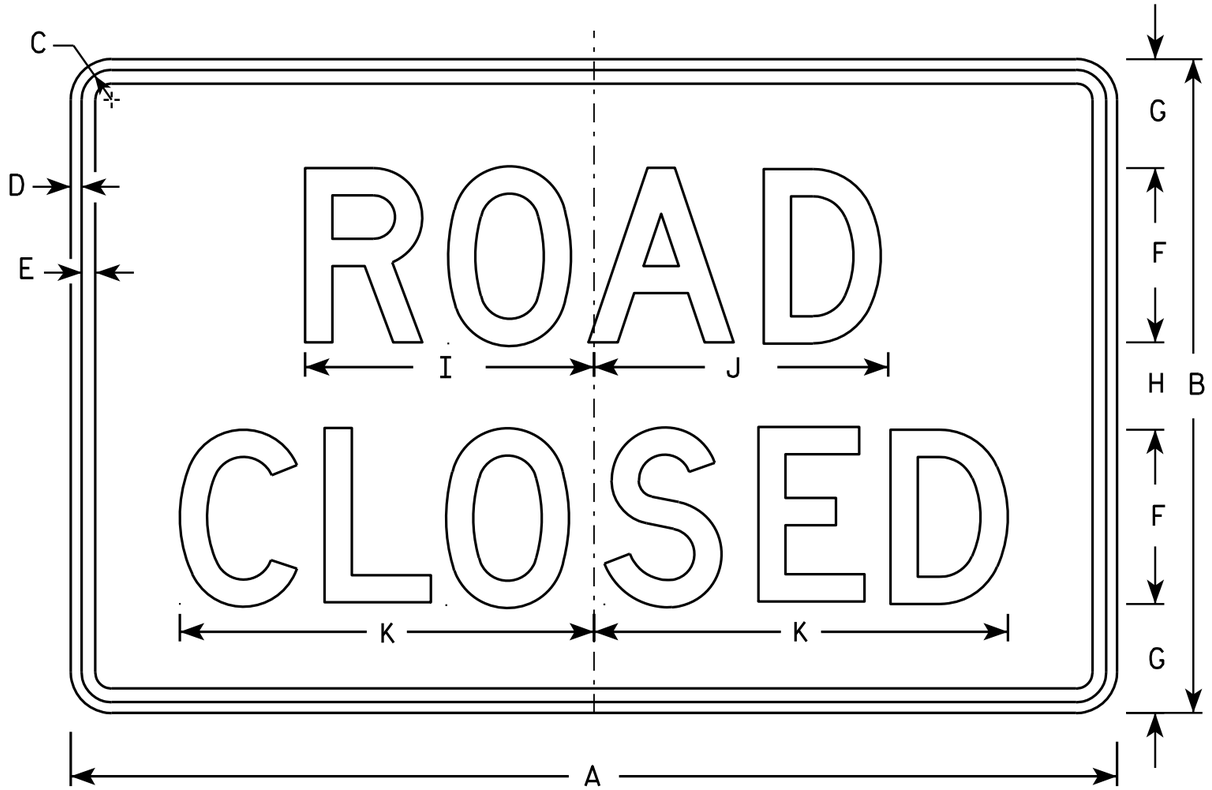
WISCONSIN DEPT OF TRANSPORTATION

APPROVED Matthew R Rauch
for State Traffic Engineer

DATE 3/31/2011 PLATE NO. R6-3.5

PROJECT NO:

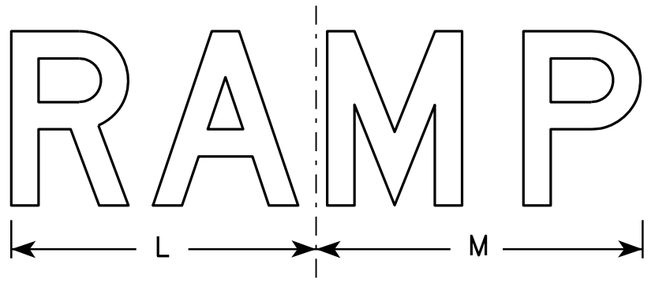
SHEET NO: 191 E



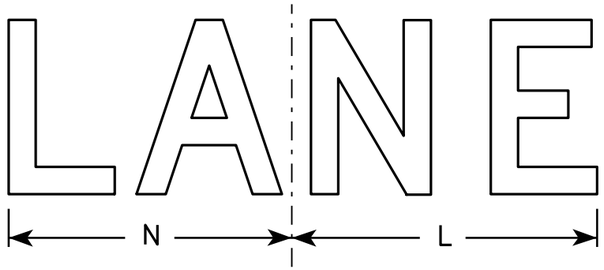
R11-2

NOTES

1. Sign is Type II - Type H Reflective - reference WIS DOT Standard Specification for HIGHWAY and STRUCTURE CONSTRUCTION latest edition.
2. Color:
   Background - White
   Message - Black
3. Message Series - D
4. Corners may be square or rounded when base material is plywood but borders shall be rounded as shown. When base material is metal, the corners and borders shall be rounded.
5. Modify the message as required.



R11-2R



R11-2L

SIZE	A	B	C	D	E	F	G	H	I	J	K	L	M	N	O	P	Q	R	S	T	U	V	W	X	Y	Z	Area sq. ft.
1																											
2S	48	30	1 3/8	1/2	5/8	8	5	4	13 1/4	13 1/2	19	14	15	13													10.0
2M	48	30	1 3/8	1/2	5/8	8	5	4	13 1/4	13 1/2	19	14	15	13													10.0
3	48	30	1 3/8	1/2	5/8	8	5	4	13 1/4	13 1/2	19	14	15	13													10.0
4	48	30	1 3/8	1/2	5/8	8	5	4	13 1/4	13 1/2	19	14	15	13													10.0
5	48	30	1 3/8	1/2	5/8	8	5	4	13 1/4	13 1/2	19	14	15	13													10.0

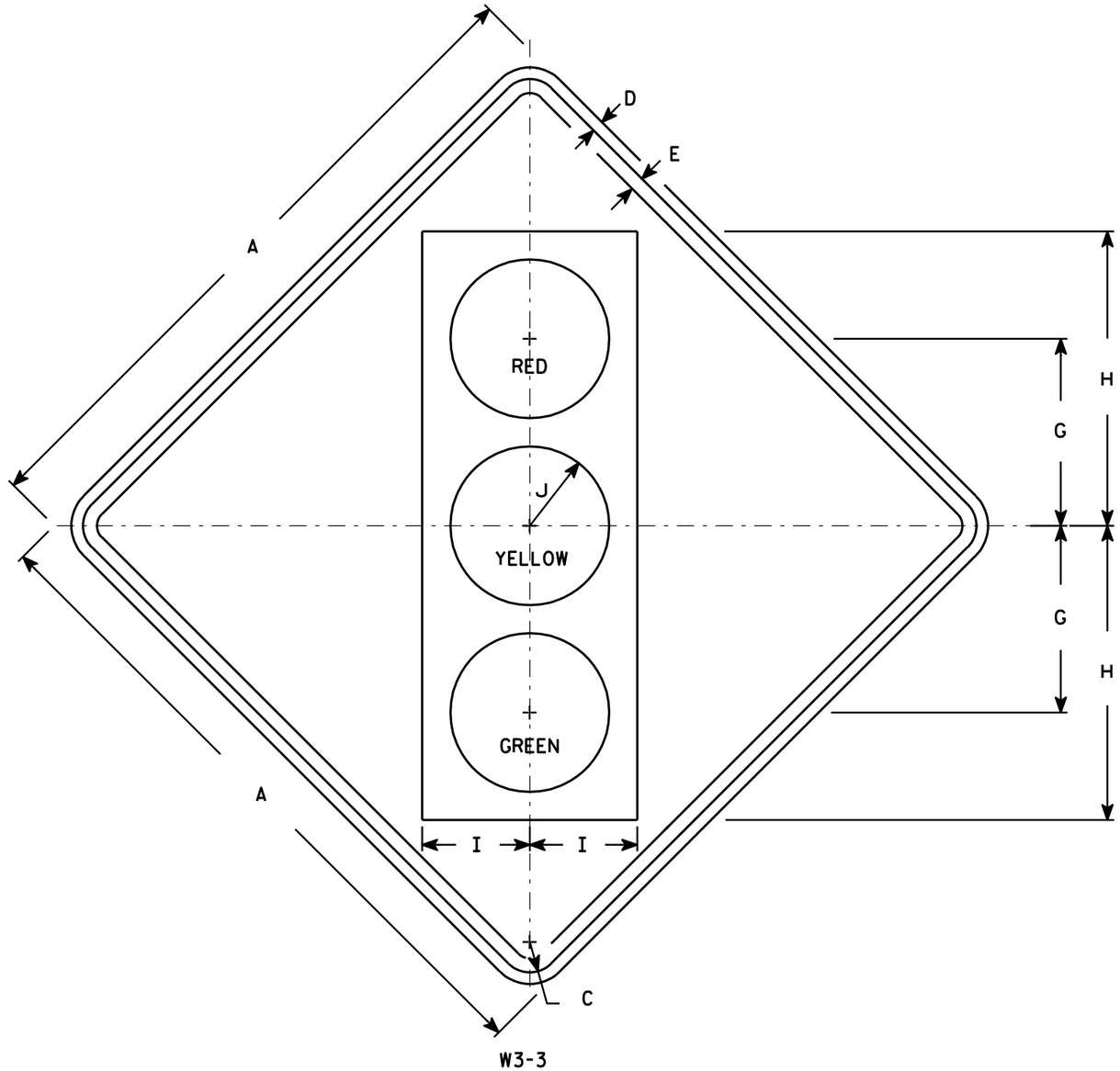
STANDARD SIGN
R11-2

WISCONSIN DEPT OF TRANSPORTATION

APPROVED Matthew R Rauch
for State Traffic Engineer

DATE 4/1/11 PLATE NO. R11-2.10

PROJECT NO: | HWY: | COUNTY: | SHEET NO: 192 | E



NOTES

1. Sign is Type II - Type F Reflective - reference WIS DOT Standard Specification for HIGHWAY and STRUCTURE CONSTRUCTION latest edition.
2. Color:
   Background - Yellow
   Message - See Note 4
3. Corners may be square or rounded when base material is plywood but borders shall be rounded as shown. When base material is metal, the corners and borders shall be rounded.
4. Symbol and border are non-reflective black.
   Top circle - Type H Reflectorized Red
   Center circle - Same as background
   Bottom circle - Type H Reflectorized Green

SIZE	A	B	C	D	E	F	G	H	I	J	K	L	M	N	O	P	Q	R	S	T	U	V	W	X	Y	Z	Area sq. ft.
1	30		1 3/8	1/2	5/8		8 3/4	13 3/4	5	3 3/4																	6.25
2S	36		1 5/8	5/8	3/4		10	15 3/4	5 3/4	4 1/4																	9.0
2M	36		1 5/8	5/8	3/4		10	15 3/4	5 3/4	4 1/4																	9.0
3	36		1 5/8	5/8	3/4		10	15 3/4	5 3/4	4 1/4																	9.0
4	48		2 1/4	3/4	1		12 1/2	20	7 1/2	5																	16.0
5	48		2 1/4	3/4	1		12 1/2	20	7 1/2	5																	16.0

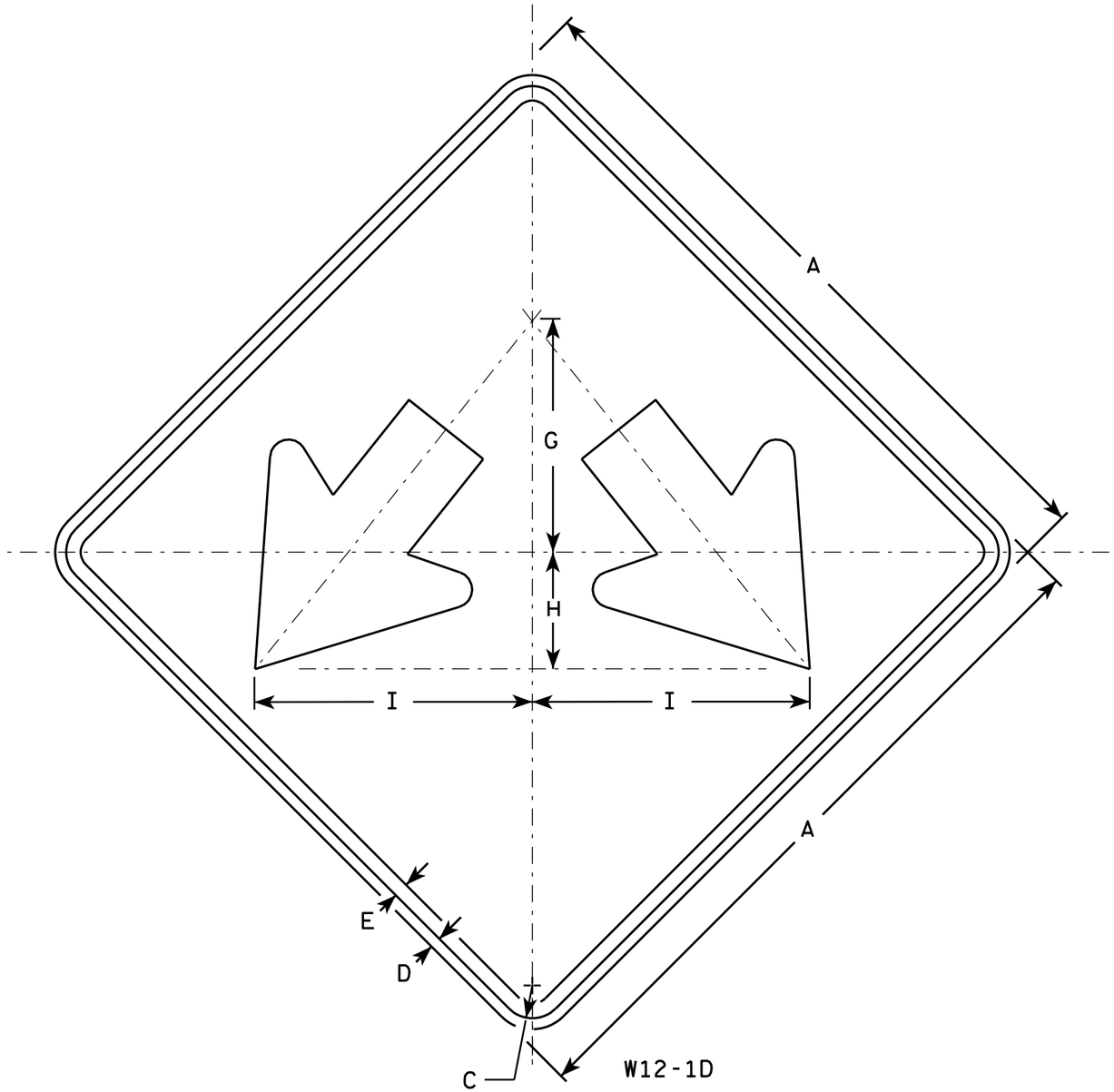
STANDARD SIGN
W3-3

WISCONSIN DEPT OF TRANSPORTATION

APPROVED Matthew R Rauch for State Traffic Engineer

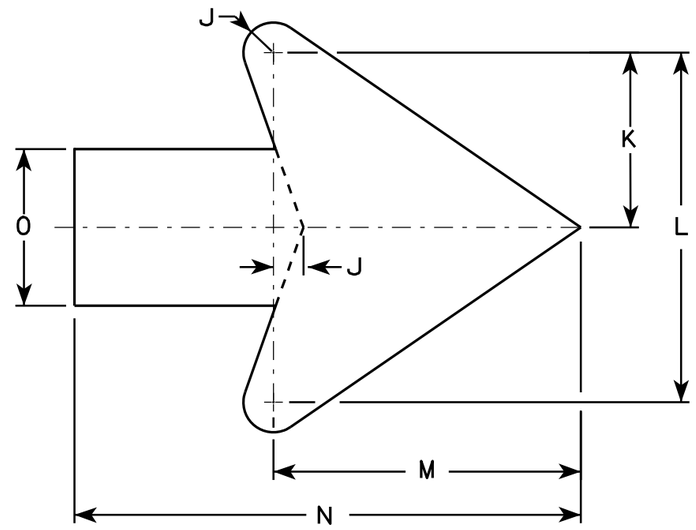
DATE 6/7/10 PLATE NO. W3-3.11

PROJECT NO: | HWY: | COUNTY: | SHEET NO: 193 | E



NOTES

1. Sign is Type II - Type F Reflective - reference WIS DOT Standard Specification for HIGHWAY and STRUCTURE CONSTRUCTION latest edition.
2. Color:
   Background - Yellow
   Message - Black
3. Corners may be square or rounded when base material is plywood but borders shall be rounded as shown. When base material is metal, the corners and borders shall be rounded.



Arrow Detail

SIZE	A	B	C	D	E	F	G	H	I	J	K	L	M	N	O	P	Q	R	S	T	U	V	W	X	Y	Z	Area sq. ft.
1																											
2S	24		1 1/8	1/2	3/8		8	4	9 1/2	3/8	3 3/8	7 1/4	6 3/8	10 3/8	3 1/4												4.0
2M	24		1 1/8	1/2	3/8		8	4	9 1/2	3/8	3 3/8	7 1/4	6 3/8	10 3/8	3 1/4												4.0
3	30		1 3/8	1/2	5/8		10	5	11 7/8	3/4	4 1/2	9	7 7/8	13	4												6.25
4	36		1 3/8	1/2	5/8		12	6	14 1/4	1	5 1/2	10 7/8	9 5/8	15 3/4	4 3/4												9.0
5	48		2 1/4	3/4	1		16	8	19	1 1/4	7 1/4	14 1/2	12 3/4	21	6 1/4												16.0

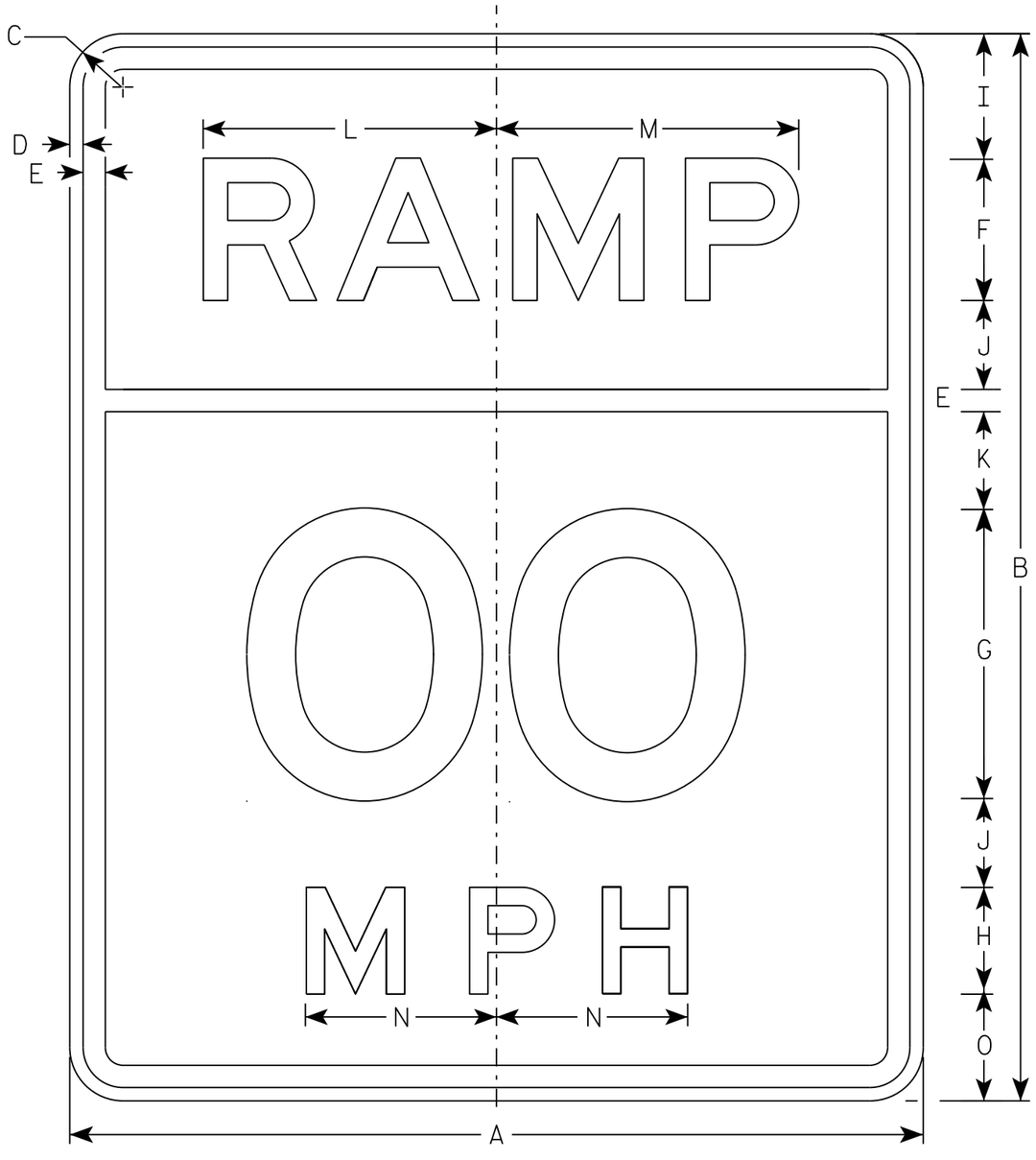
STANDARD SIGN
W12-1D

WISCONSIN DEPT OF TRANSPORTATION

APPROVED Matthew R Rauch
for State Traffic Engineer

DATE 3/13/13 PLATE NO. W12-1D.15

PROJECT NO:	HWY:	COUNTY:		SHEET NO: 194	E



W13-3

NOTES

1. Sign is Type II - Type F Reflective
2. Color:
   Background - Yellow
   Message - Black
3. Message Series - E
4. Substitute appropriate numerals and optically space about centerline to achieve proper balance.

SIZE	A	B	C	D	E	F	G	H	I	J	K	L	M	N	O	P	Q	R	S	T	U	V	W	X	Y	Z	Area sq. ft.
1	24	30	1 1/8	3/8	5/8	4	8	3	3 1/2	2 1/2	2 7/8	8 1/4	8 1/2	5 3/8	3												5.0
2S	24	30	1 1/8	3/8	5/8	4	8	3	3 1/2	2 1/2	2 7/8	8 1/4	8 1/2	5 3/8	3												5.0
2M	24	30	1 1/8	3/8	5/8	4	8	3	3 1/2	2 1/2	2 7/8	8 1/4	8 1/2	5 3/8	3												5.0
3	36	48	1 5/8	5/8	7/8	6	12	4	6	4 1/8	5 1/8	13 1/2	13 5/8	7 1/8	6												12.0
4	36	48	1 5/8	5/8	7/8	6	12	4	6	4 1/8	5 1/8	13 1/2	13 5/8	7 1/8	6												12.0
5	48	60	2 1/4	3/4	1 1/4	8	16	6	7	5	5 3/4	16 1/2	17	10 5/8	6												20.0

STANDARD SIGN
W13-3

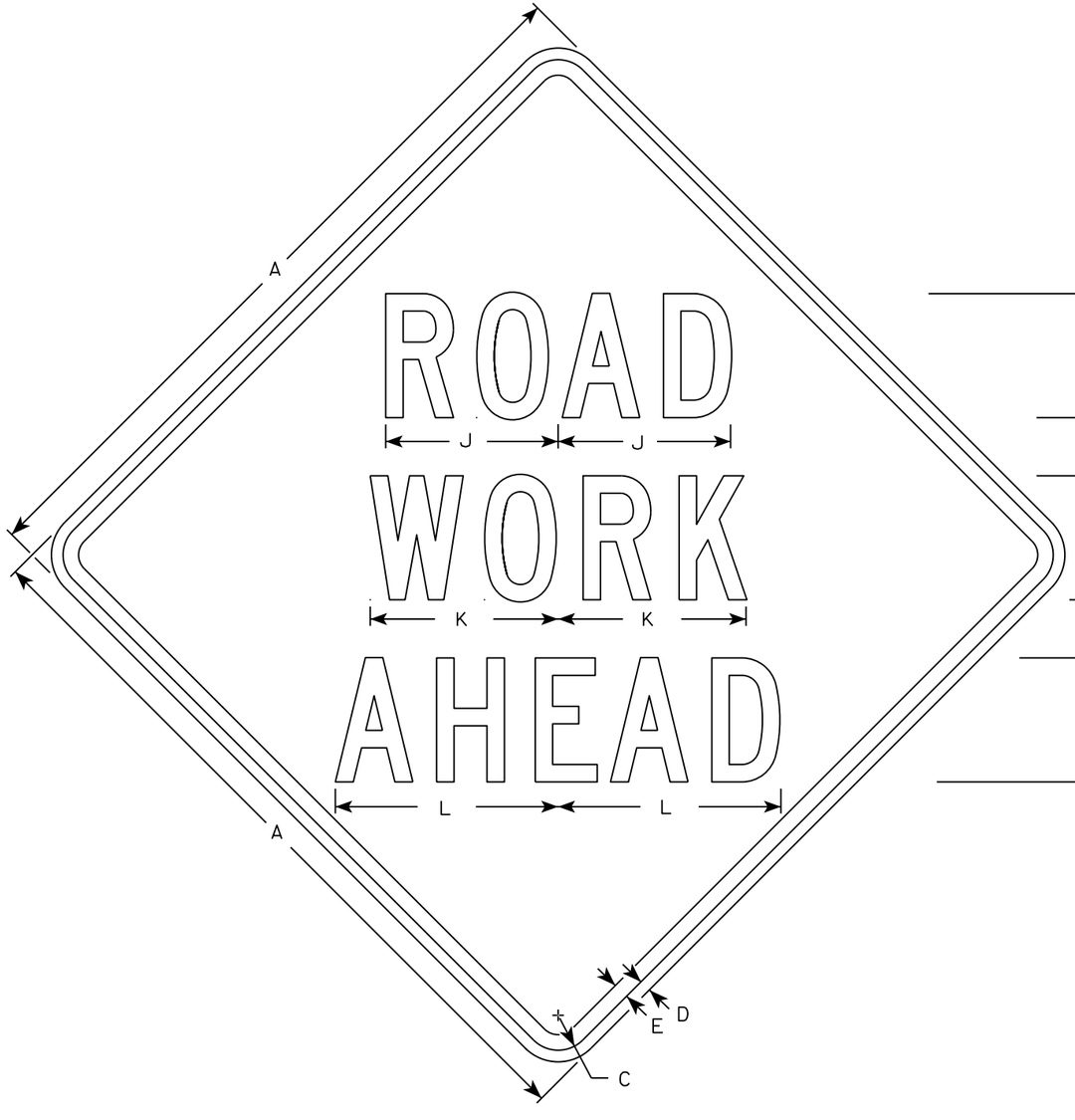
WISCONSIN DEPT OF TRANSPORTATION

APPROVED Matthew R Rauch
For State Traffic Engineer

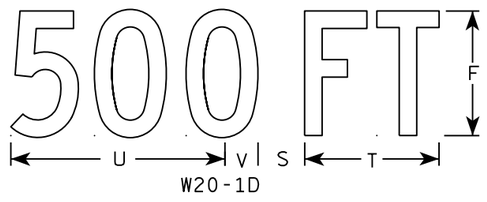
DATE 8/1/16 PLATE NO W13-3.10

PROJECT NO: | HWY: | COUNTY: | SHEET NO: E

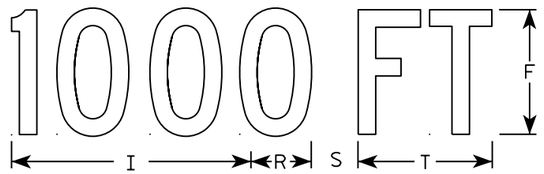
FILE NAME : C:\CAEfiles\Projects\tr_stdplate\W133.DGN PLOT DATE : 01-AUG-2016 09:57 PLOT BY : $$ platuser $$ PLOT NAME : PLOT SCALE : 4.086268:1.000000



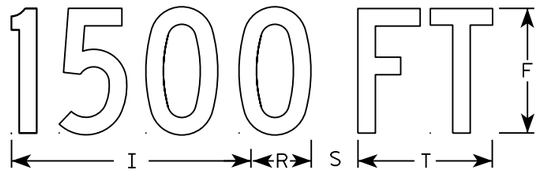
W20-1A



W20-1D



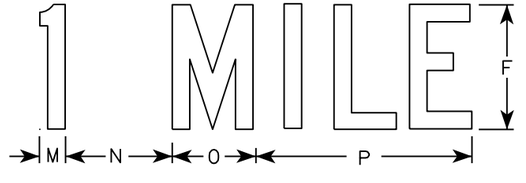
W20-1C



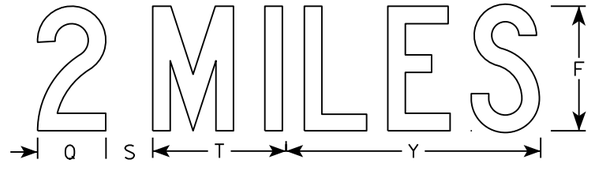
W20-1B



W20-1G



W20-1F



W20-1E

NOTES

1. Sign is Type II - Type F Reflective
2. Color:
   Background - Orange
   Message - Black
3. Message Series - C
4. Corners may be square or rounded when base material is plywood but borders shall be rounded as shown. When base material is metal, the corners and borders shall be rounded.

SIZE	A	B	C	D	E	F	G	H	I	J	K	L	M	N	O	P	Q	R	S	T	U	V	W	X	Y	Z	Area sq. ft.
1	36		1 3/8	1/2	5/8	5	2 5/8	3 1/4	10 1/8	7	7 5/8	8 7/8	1 1/8	4 1/2	3 1/2	9		2 1/2	2 1/4	5 5/8	9	1 3/8	8	1 3/4	10 3/4	6	9.0
2S	48		2 1/4	3/4	1	8	3 3/4	5 1/8	15 3/8	11 1/8	12 1/8	14 3/8	1 5/8	6 7/8	5 3/8	13 7/8	4 3/8	3 7/8	3	8 5/8	13 3/4	2 1/8	11 7/8	2 3/4	16 3/8	9	16.0
2M	48		2 1/4	3/4	1	8	3 3/4	5 1/8	15 3/8	11 1/8	12 1/8	14 3/8	1 5/8	6 7/8	5 3/8	13 7/8	4 3/8	3 7/8	3	8 5/8	13 3/4	2 1/8	11 7/8	2 3/4	16 3/8	9	16.0
3	48		2 1/4	3/4	1	8	3 3/4	5 1/8	15 3/8	11 1/8	12 1/8	14 3/8	1 5/8	6 7/8	5 3/8	13 7/8	4 3/8	3 7/8	3	8 5/8	13 3/4	2 1/8	11 7/8	2 3/4	16 3/8	9	16.0
4	48		2 1/4	3/4	1	8	3 3/4	5 1/8	15 3/8	11 1/8	12 1/8	14 3/8	1 5/8	6 7/8	5 3/8	13 7/8	4 3/8	3 7/8	3	8 5/8	13 3/4	2 1/8	11 7/8	2 3/4	16 3/8	9	16.0
5	48		2 1/4	3/4	1	8	3 3/4	5 1/8	15 3/8	11 1/8	12 1/8	14 3/8	1 5/8	6 7/8	5 3/8	13 7/8	4 3/8	3 7/8	3	8 5/8	13 3/4	2 1/8	11 7/8	2 3/4	16 3/8	9	16.0

STANDARD SIGN
W20-1A, B, C, D, F & G

WISCONSIN DEPT OF TRANSPORTATION

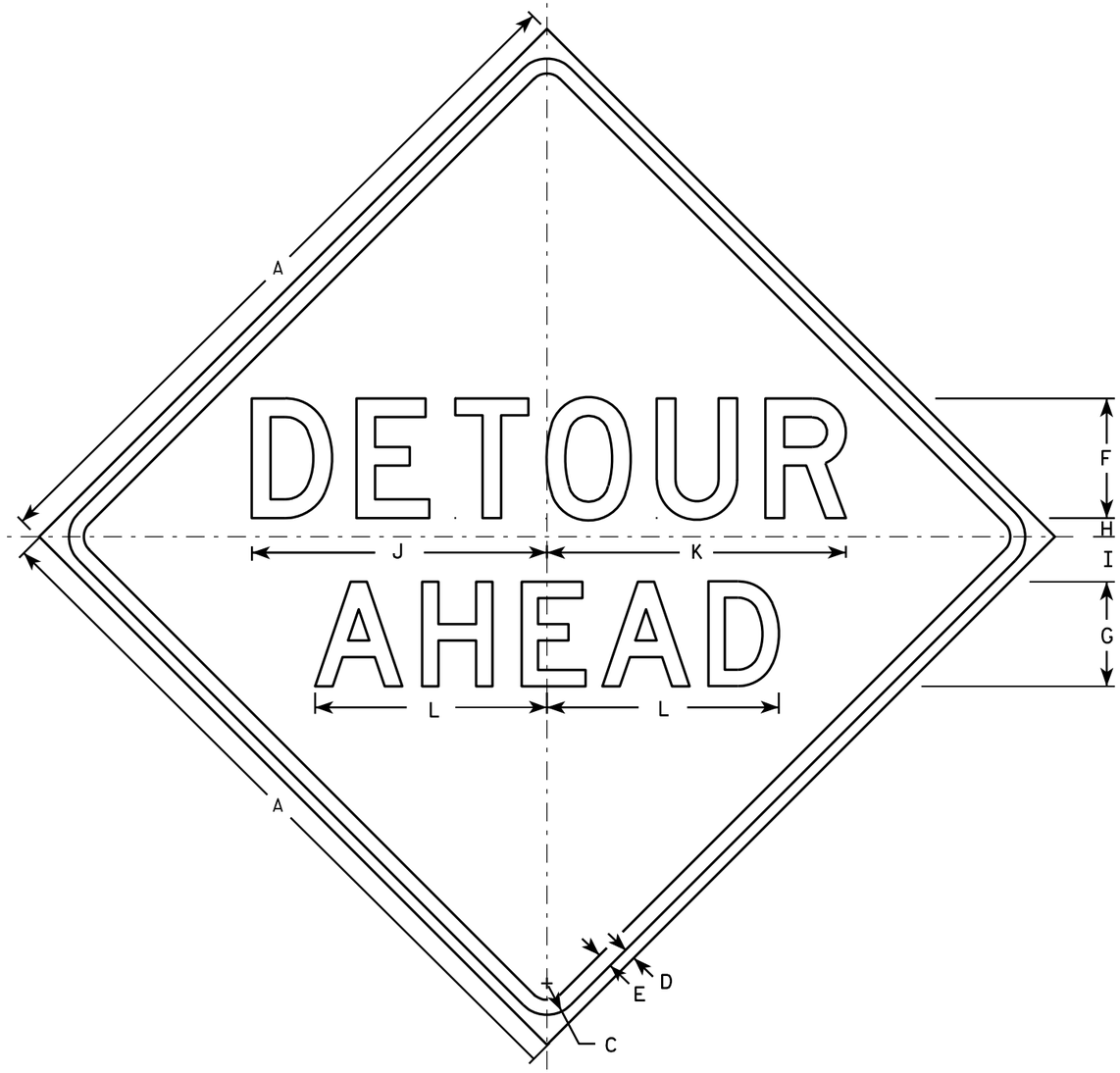
APPROVED Matthew R Rauch
for State Traffic Engineer

DATE 5/07/15 PLATE NO. W20-1.10

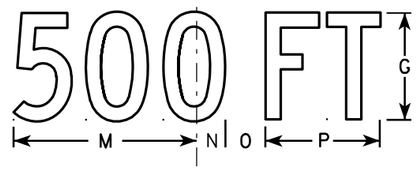
PROJECT NO:

SHEET NO: E

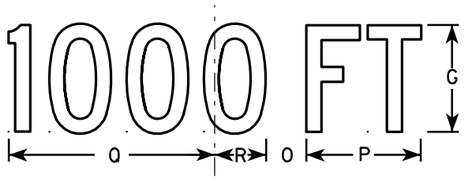
FILE NAME : C:\CAEfiles\Projects\tr_stdplate\W201.DGN PLOT DATE : 01-DEC-2015 18:24 PLOT BY : $$ plotuser $$



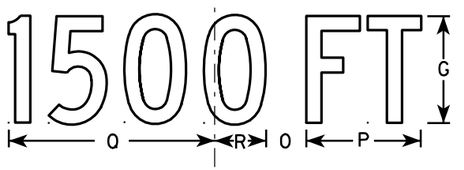
W20-2A



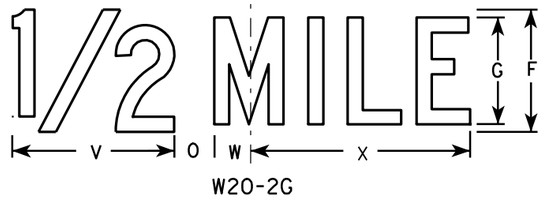
W20-2D



W20-2C



W20-2B



W20-2G



W20-2F

NOTES

1. Sign is Type II - Type F Reflective - reference WIS DOT Standard Specification for HIGHWAY and STRUCTURE CONSTRUCTION latest edition.
2. Color:
   Background - Orange
   Message - Black
3. Message Series - See note 5
4. Corners may be square or rounded when base material is plywood but borders shall be rounded as shown. When base material is metal, the corners and borders shall be rounded.
5. Line 1 is Series D.
   Line 2 is Series D for AHEAD and Series C for all other distances.

SIZE	A	B	C	D	E	F	G	H	I	J	K	L	M	N	O	P	O	R	S	T	U	V	W	X	Y	Z	Area sq. ft.
1	36		1 5/8	5/8	3/4	6	5	1	2 1/4	14 3/4	15	11 5/8	9	1 3/8	1 7/8	5 5/8	10 1/8	2 1/2	1 1/8	4 1/2	3 1/2	8	1 3/4	10 3/4			9.0
2S	48		2 1/4	3/4	1	8	7	1 1/4	3	19 3/4	20	15 1/2	12	1 7/8	2 5/8	7 1/2	13 1/2	3 3/8	1 1/2	6	4 5/8	10 5/8	2 3/8	14 3/8			16.0
2M	48		2 1/4	3/4	1	8	7	1 1/4	3	19 3/4	20	15 1/2	12	1 7/8	2 5/8	7 1/2	13 1/2	3 3/8	1 1/2	6	4 5/8	10 5/8	2 3/8	14 3/8			16.0
3	48		2 1/4	3/4	1	8	7	1 1/4	3	19 3/4	20	15 1/2	12	1 7/8	2 5/8	7 1/2	13 1/2	3 3/8	1 1/2	6	4 5/8	10 5/8	2 3/8	14 3/8			16.0
4	48		2 1/4	3/4	1	8	7	1 1/4	3	19 3/4	20	15 1/2	12	1 7/8	2 5/8	7 1/2	13 1/2	3 3/8	1 1/2	6	4 5/8	10 5/8	2 3/8	14 3/8			16.0
5	48		2 1/4	3/4	1	8	7	1 1/4	3	19 3/4	20	15 1/2	12	1 7/8	2 5/8	7 1/2	13 1/2	3 3/8	1 1/2	6	4 5/8	10 5/8	2 3/8	14 3/8			16.0

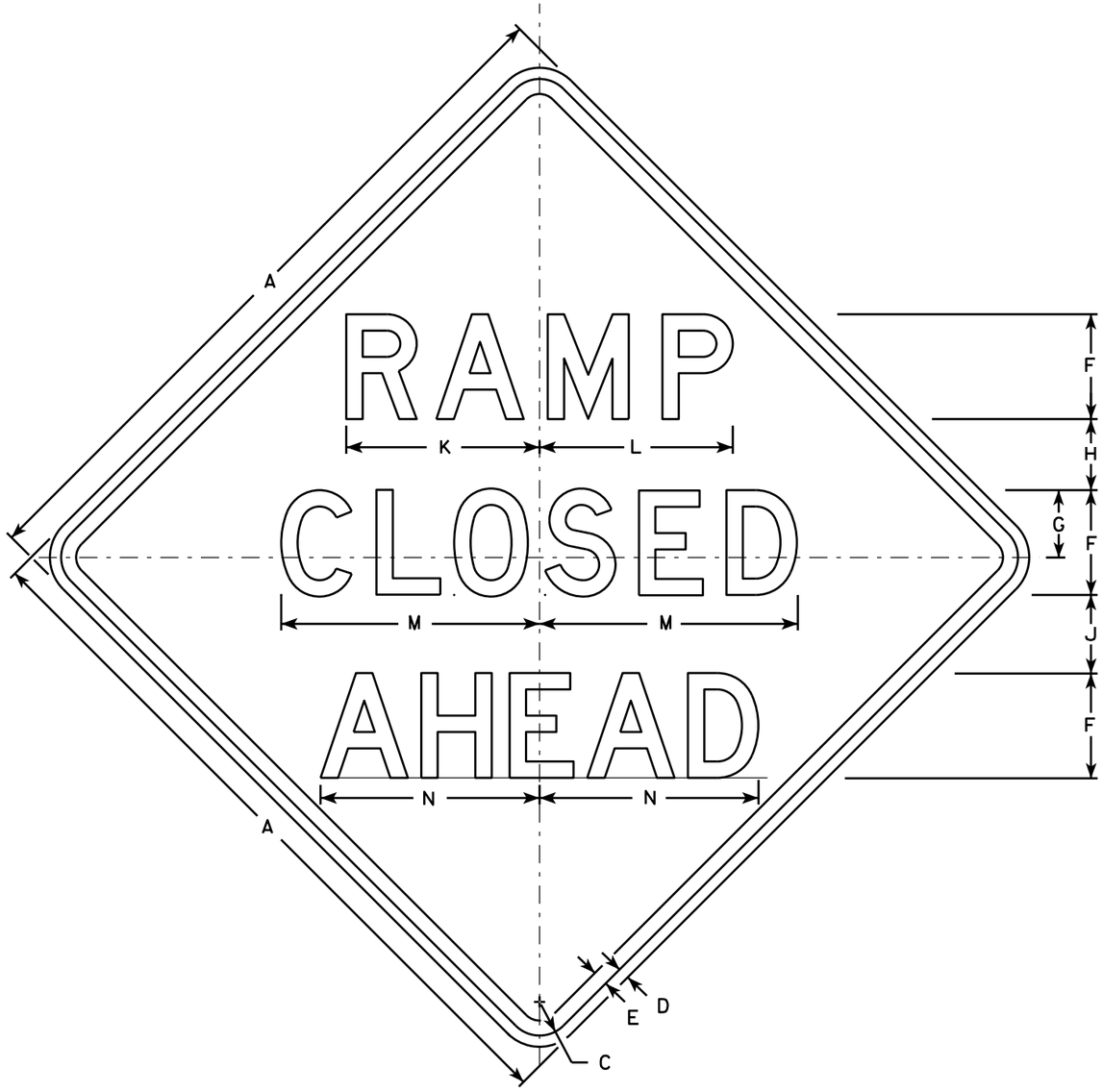
STANDARD SIGN
W20-2A,B,C,D,F & G

WISCONSIN DEPT OF TRANSPORTATION

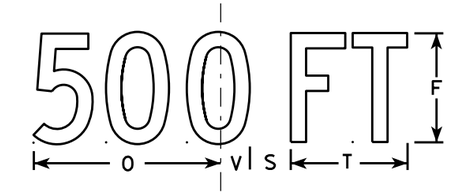
APPROVED Matthew R Rauch
for State Traffic Engineer

DATE 3/18/11 PLATE NO. W20-2.6

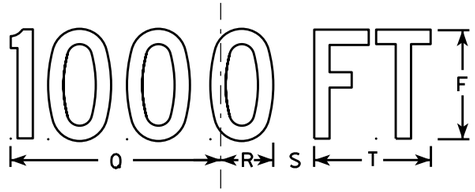
PROJECT NO: | HWY: | COUNTY: | SHEET NO: 197 | E



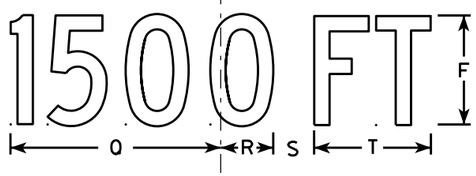
W20-53A



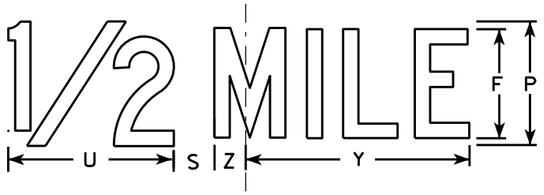
W20-53D



W20-53C



W20-53B



W20-53G



W20-53F

NOTES

1. Sign is Type II - Type F Reflective - reference WIS DOT Standard Specification for HIGHWAY and STRUCTURE CONSTRUCTION latest edition.
2. Color:
   Background - Orange
   Message - Black
3. Message Series - see note 5
4. Corners may be square or rounded when base material is plywood but borders shall be rounded as shown. When base material is metal, the corners and borders shall be rounded.
5. Lines 1 and 2 are Series D.
   Line 3 is Series D for AHEAD and Series C for all other distances.

SIZE	A	B	C	D	E	F	G	H	I	J	K	L	M	N	O	P	Q	R	S	T	U	V	W	X	Y	Z	Area sq. ft.
1	36		1 5/8	5/8	3/4	5	3 3/8	3 1/2	1 1/8	4	9 1/4	9 1/4	12 1/2	11	9	6	10 1/8	2 1/2	1 7/8	5 5/8	8	1 3/8	4 1/2	3 1/2	10 3/4	1 3/4	9.0
2S	48		2 1/4	3/4	1	7	4 1/2	4 3/4	1 1/2	5 1/4	12 7/8	12 7/8	17 1/4	14 5/8	12	8	13 1/2	3 3/8	2 5/8	7 1/2	10 5/8	1 7/8	6	4 5/8	14 3/8	2 3/8	16.0
2M	48		2 1/4	3/4	1	7	4 1/2	4 3/4	1 1/2	5 1/4	12 7/8	12 7/8	17 1/4	14 5/8	12	8	13 1/2	3 3/8	2 5/8	7 1/2	10 5/8	1 7/8	6	4 5/8	14 3/8	2 3/8	16.0
3	48		2 1/4	3/4	1	7	4 1/2	4 3/4	1 1/2	5 1/4	12 7/8	12 7/8	17 1/4	14 5/8	12	8	13 1/2	3 3/8	2 5/8	7 1/2	10 5/8	1 7/8	6	4 5/8	14 3/8	2 3/8	16.0
4	48		2 1/4	3/4	1	7	4 1/2	4 3/4	1 1/2	5 1/4	12 7/8	12 7/8	17 1/4	14 5/8	12	8	13 1/2	3 3/8	2 5/8	7 1/2	10 5/8	1 7/8	6	4 5/8	14 3/8	2 3/8	16.0
5	48		2 1/4	3/4	1	7	4 1/2	4 3/4	1 1/2	5 1/4	12 7/8	12 7/8	17 1/4	14 5/8	12	8	13 1/2	3 3/8	2 5/8	7 1/2	10 5/8	1 7/8	6	4 5/8	14 3/8	2 3/8	16.0

STANDARD SIGN
W20-53A,B,C,D,F,G

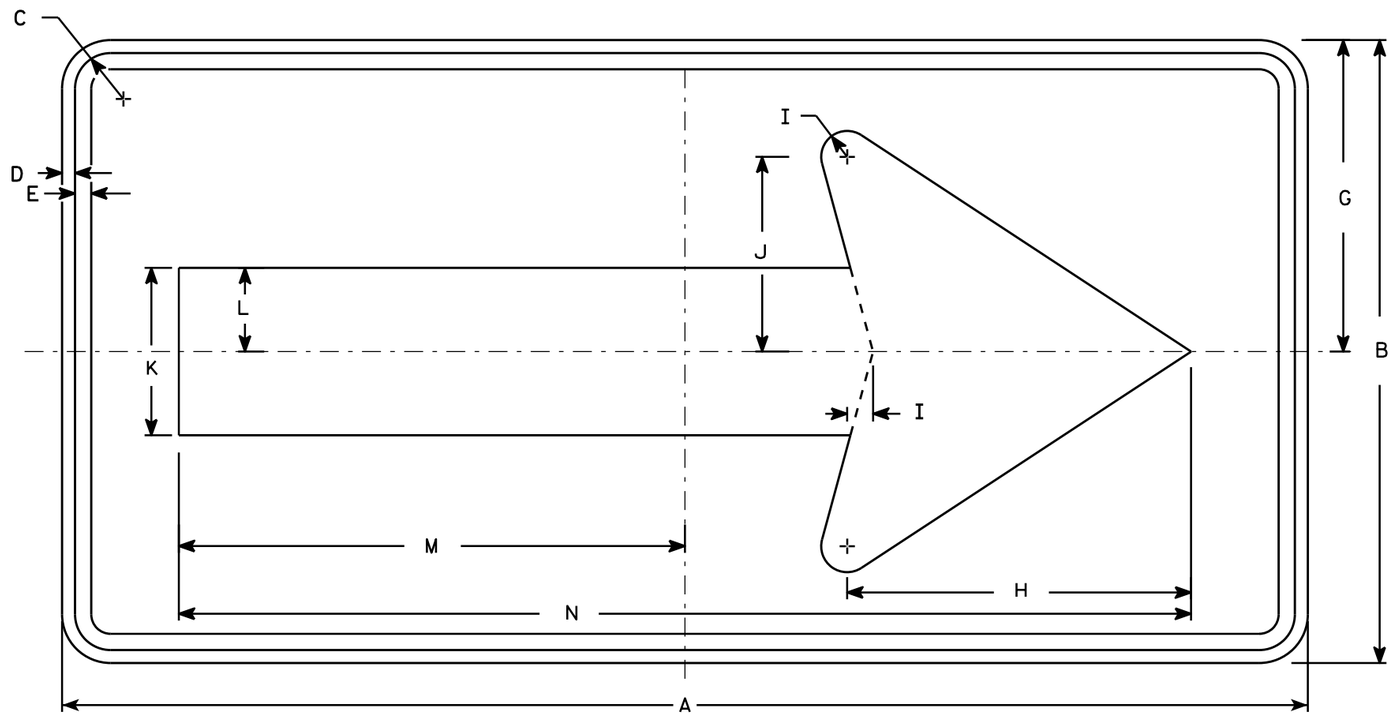
WISCONSIN DEPT OF TRANSPORTATION

APPROVED Matthew R Rauch
for State Traffic Engineer

DATE 5/27/15 PLATE NO. W20-53.1

PROJECT NO:	HWY:	COUNTY:		SHEET NO:	E

FILE NAME : C:\CAEfiles\Projects\tr_stdplate\W2053.DGN PLOT DATE : 27-MAY-2015 19:40 PLOT BY : mscj9h PLOT NAME : PLOT SCALE : 9.729210:1.000000
WISDOT/CADDS SHEET 42



WO1-6

NOTES

1. Sign is Type II - Type F Reflective - reference WIS DOT Standard Specification for HIGHWAY and STRUCTURE CONSTRUCTION latest edition.
2. Color:
   Background - Orange
   Message - Black
3. Corners may be square or rounded when base material is plywood but borders shall be rounded as shown. When base material is metal, the corners and borders shall be rounded.

SIZE	A	B	C	D	E	F	G	H	I	J	K	L	M	N	O	P	Q	R	S	T	U	V	W	X	Y	Z	Area sq. ft.
1																											
2S	48	24	1 3/8	1/2	5/8		12	13 1/4	1	7 1/2	6 1/2	3 1/4	19 1/2	39													8.0
2M	48	24	1 3/8	1/2	5/8		12	13 1/4	1	7 1/2	6 1/2	3 1/4	19 1/2	39													8.0
3	60	30	1 3/8	1/2	5/8		15	16 1/4	1 1/4	9 1/4	8	4	24 3/8	48 3/4													12.5
4	60	30	1 3/8	1/2	5/8		15	16 1/4	1 1/4	9 1/4	8	4	24 3/8	48 3/4													12.5
5	60	30	1 3/8	1/2	5/8		15	16 1/4	1 1/4	9 1/4	8	4	24 3/8	48 3/4													12.5

STANDARD SIGN
WO1-6

WISCONSIN DEPT OF TRANSPORTATION

APPROVED Matthew R Rauch
for State Traffic Engineer

DATE 11/18/13 PLATE WO1-6.1

PROJECT NO: | HWY: | COUNTY: | SHEET NO: E

FILE NAME : C:\CAEfiles\Projects\tr_stdplate\WO16.DGN PLOT DATE : 28-FEB-2014 11:37 PLOT BY : mscj9h PLOT NAME : PLOT SCALE : 5.837526:1.000000 WISDOT/CADDS SHEET 42

STAGE 2 - CTH HH EASTBOUND - STA. 06+21'EB' TO STA. 24+22'EB'

STATION	Distance	AREA (SF)			Incremental Vol (CY) (Unadjusted)			Cumulative Vol (CY)				Mass Ordinate
		Cut	Fill	EBS	Cut	Fill	EBS	Cut 1.00	Expanded Fill 1.25	Expanded EBS Backfill 1.30	Reduced EBS in Fill 0.80	
06+21'EB'	0.00	63.43	3.10	0.00	0	0	0	0	0	0	0	0
06+48'EB'	27.38	68.64	6.24	0.00	67	5	0	67	6	0	0	61
06+50'EB'	1.62	69.65	5.97	0.00	4	0	0	71	6	0	0	65
06+53'EB'	3.20	71.83	5.58	0.00	8	1	0	79	7	0	0	72
06+60'EB'	6.80	71.46	6.47	0.00	18	2	0	98	9	0	0	88
06+66'EB'	5.76	72.19	6.97	0.00	15	1	0	113	11	0	0	102
06+71'EB'	4.84	69.99	8.13	0.00	13	1	0	126	13	0	0	113
07+00'EB'	29.40	73.22	8.66	0.00	78	9	0	204	24	0	0	180
07+50'EB'	50.00	73.68	11.25	0.00	136	18	0	340	47	0	0	293
08+00'EB'	50.00	72.59	5.42	0.00	135	15	0	475	66	0	0	409
08+18'EB'	17.54	72.57	6.93	0.00	47	4	0	522	71	0	0	451
08+50'EB'	32.46	74.27	5.40	0.00	88	7	0	610	81	0	0	530
09+00'EB'	50.00	77.08	3.85	0.00	140	9	0	751	91	0	0	659
09+43'EB'	43.50	83.53	1.29	0.00	129	4	0	880	97	0	0	783
09+48'EB'	5.00	85.79	1.27	0.00	16	0	0	896	97	0	0	799
09+50'EB'	1.50	85.83	1.23	0.00	5	0	0	900	97	0	0	803
09+55'EB'	5.00	85.29	1.36	0.00	16	0	0	916	97	0	0	819
09+60'EB'	5.00	84.47	1.40	0.00	16	0	0	932	98	0	0	834
09+62'EB'	1.50	84.29	1.30	0.00	5	0	0	937	98	0	0	839
09+66'EB'	5.00	83.19	0.65	0.00	16	0	0	952	98	0	0	854
10+00'EB'	33.50	76.52	7.57	0.00	99	5	0	1,051	104	0	0	947
10+39'EB'	39.25	71.42	12.88	0.00	108	15	0	1,159	123	0	0	1,036
10+50'EB'	10.75	70.00	13.23	0.00	28	5	0	1,187	129	0	0	1,058
11+00'EB'	50.00	70.40	25.73	0.00	130	36	0	1,317	174	0	0	1,143
11+50'EB'	50.00	73.34	25.89	0.00	133	48	0	1,450	234	0	0	1,216
12+00'EB'	50.00	72.71	31.28	0.00	135	53	0	1,585	300	0	0	1,285
12+08'EB'	7.99	73.17	32.78	0.00	22	9	0	1,607	312	0	0	1,295
12+20'EB'	12.01	108.63	33.33	0.00	40	15	0	1,647	331	0	0	1,317
12+50'EB'	30.00	104.71	36.11	0.00	119	39	0	1,766	379	0	0	1,387
12+53'EB'	3.27	105.39	35.95	0.00	13	4	0	1,779	384	0	0	1,394
12+60'EB'	6.73	104.03	35.89	0.00	26	9	0	1,805	395	0	0	1,409
12+67'EB'	6.71	91.65	34.20	0.00	24	9	0	1,829	406	0	0	1,423
12+72'EB'	5.19	86.46	33.12	0.00	17	6	0	1,846	414	0	0	1,432
12+75'EB'	3.10	92.53	33.95	0.00	10	4	0	1,856	419	0	0	1,437
13+00'EB'	25.00	79.40	24.02	0.00	80	27	0	1,936	453	0	0	1,483
13+29'EB'	29.14	76.82	33.75	0.00	84	31	0	2,020	492	0	0	1,529
13+50'EB'	20.86	83.11	27.52	0.00	62	24	0	2,082	521	0	0	1,561
13+90'EB'	40.00	96.85	24.77	0.00	133	39	0	2,215	570	0	0	1,646
13+95'EB'	5.00	98.70	24.29	0.00	18	5	0	2,233	575	0	0	1,658
14+00'EB'	5.00	99.08	24.20	0.00	18	4	0	2,252	581	0	0	1,671

***ALL ITEMS CATEGORY 0010 UNLESS OTHERWISE NOTED.

STAGE 2 - CTH HH EASTBOUND - STA. 06+21'EB' TO STA. 24+22'EB' (CONTINUED)

STATION	Distance	AREA (SF)			Incremental Vol (CY) (Unadjusted)			Cumulative Vol (CY)				Mass Ordinate
		Cut	Fill	EBS	Cut	Fill	EBS	Cut 1.00	Expanded Fill 1.25	Expanded EBS Backfill 1.30	Reduced EBS in Fill 0.80	
14+50'EB'	50.00	101.27	21.86	0.00	186	43	0	2,437	634	0	0	1,803
14+61'EB'	11.20	101.73	23.93	0.00	42	9	0	2,479	646	0	0	1,833
15+00'EB'	38.80	104.74	31.46	0.00	148	40	0	2,628	696	0	0	1,932
15+45'EB'	45.00	101.94	33.52	0.00	172	54	0	2,800	764	0	0	2,036
15+50'EB'	5.00	103.54	32.17	0.00	19	6	0	2,819	771	0	0	2,048
15+55'EB'	5.00	117.81	31.94	0.00	20	6	0	2,839	779	0	0	2,061
15+95'EB'	40.00	111.42	34.50	0.00	170	49	0	3,009	840	0	0	2,169
16+00'EB'	5.00	84.90	36.74	0.00	18	7	0	3,027	848	0	0	2,179
16+03'EB'	3.13	85.32	35.84	0.00	10	4	0	3,037	854	0	0	2,184
16+08'EB'	5.16	72.92	41.08	0.00	15	7	0	3,052	863	0	0	2,190
16+10'EB'	1.71	71.99	40.10	0.00	5	3	0	3,057	866	0	0	2,191
16+15'EB'	5.00	71.19	41.40	0.00	13	8	0	3,070	876	0	0	2,195
16+22'EB'	6.76	71.06	41.37	0.00	18	10	0	3,088	888	0	0	2,200
16+27'EB'	5.12	68.63	40.94	0.00	13	8	0	3,101	898	0	0	2,203
16+50'EB'	23.13	68.44	39.98	0.00	59	35	0	3,160	942	0	0	2,218
17+00'EB'	50.00	67.50	47.07	0.00	126	81	0	3,286	1,042	0	0	2,244
17+50'EB'	50.00	68.52	48.98	0.00	126	89	0	3,412	1,153	0	0	2,258
17+80'EB'	30.00	69.32	50.26	0.00	77	55	0	3,488	1,222	0	0	2,266
17+90'EB'	10.00	69.52	48.33	0.00	26	18	0	3,514	1,245	0	0	2,269
18+00'EB'	10.00	69.95	50.07	0.00	26	18	0	3,540	1,268	0	0	2,272
18+50'EB'	50.00	70.92	43.36	0.00	130	87	0	3,670	1,376	0	0	2,294
18+64'EB'	13.60	70.50	36.07	0.00	36	20	0	3,706	1,401	0	0	2,305
18+68'EB'	4.69	72.89	31.28	0.00	12	6	0	3,718	1,408	0	0	2,310
18+75'EB'	6.71	72.75	28.57	0.00	18	7	0	3,737	1,418	0	0	2,319
18+82'EB'	6.75	72.53	25.49	0.00	18	7	0	3,755	1,426	0	0	2,329
18+83'EB'	1.39	71.96	25.71	0.00	4	1	0	3,758	1,428	0	0	2,331
18+87'EB'	4.15	70.26	27.44	0.00	11	4	0	3,769	1,433	0	0	2,336
19+00'EB'	12.71	70.55	25.35	0.00	33	12	0	3,802	1,448	0	0	2,354
19+50'EB'	50.00	70.92	23.54	0.00	131	45	0	3,933	1,505	0	0	2,428
20+00'EB'	50.00	71.14	16.42	0.00	132	37	0	4,065	1,551	0	0	2,514
20+50'EB'	50.00	70.44	16.66	0.00	131	31	0	4,196	1,590	0	0	2,607
21+00'EB'	50.00	68.72	17.45	0.00	129	32	0	4,325	1,629	0	0	2,696
21+43'EB'	43.50	67.81	17.19	0.00	110	28	0	4,435	1,664	0	0	2,771
21+48'EB'	4.95	70.29	15.41	0.00	13	3	0	4,448	1,668	0	0	2,780
21+50'EB'	1.55	70.36	15.48	0.00	4	1	0	4,452	1,669	0	0	2,783
21+55'EB'	5.00	70.52	15.74	0.00	13	3	0	4,465	1,672	0	0	2,792
21+62'EB'	6.55	70.70	16.12	0.00	17	4	0	4,482	1,677	0	0	2,805
21+67'EB'	5.00	68.48	18.89	0.00	13	3	0	4,495	1,681	0	0	2,813
22+00'EB'	33.45	69.85	10.18	0.00	86	18	0	4,580	1,704	0	0	2,877
22+15'EB'	15.00	70.96	4.57	0.00	39	4	0	4,619	1,709	0	0	2,911

***ALL ITEMS CATEGORY 0010 UNLESS OTHERWISE NOTED.

STAGE 2 - CTH HH EASTBOUND - STA. 06+21'EB' TO STA. 24+22'EB' (CONTINUED)

STATION	Distance	AREA (SF)			Incremental Vol (CY) (Unadjusted)			Cumulative Vol (CY)				Mass Ordinate
		Cut	Fill	EBS	Cut	Fill	EBS	Cut 1.00	Expanded Fill 1.25	Expanded EBS Backfill 1.30	Reduced EBS in Fill 0.80	
22+20'EB'	5.00	71.92	3.37	0.00	13	1	0	4,633	1,710	0	0	2,923
22+50'EB'	30.00	81.32	1.77	0.00	85	3	0	4,718	1,713	0	0	3,004
22+55'EB'	4.74	61.33	1.15	0.00	13	0	0	4,730	1,714	0	0	3,017
23+00'EB'	45.26	60.53	0.99	0.00	102	2	0	4,833	1,716	0	0	3,117
23+50'EB'	50.00	59.23	1.07	0.00	111	2	0	4,943	1,718	0	0	3,225
23+85'EB'	35.00	56.42	1.94	0.00	75	2	0	5,018	1,721	0	0	3,298
23+90'EB'	5.00	61.93	2.03	0.00	11	0	0	5,029	1,721	0	0	3,308
24+00'EB'	10.00	61.30	2.20	0.00	23	1	0	5,052	1,722	0	0	3,330
24+13'EB'	13.19	61.59	2.12	0.00	30	1	0	5,082	1,724	0	0	3,359
24+22'EB'	9.07	64.58	0.00	0.00	21	0	0	5,103	1,724	0	0	3,379
					5,103	1,379	0					

***ALL ITEMS CATEGORY 0010 UNLESS OTHERWISE NOTED.

STAGE 2 - CTH HH WESTBOUND - STA. 11+85'WB' TO STA. 16+27'WB'

STATION	Distance	AREA (SF)			Incremental Vol (CY) (Unadjusted)			Cumulative Vol (CY)				Mass Ordinate
		Cut	Fill	EBS	Cut	Fill	EBS	Cut 1.00	Expanded Fill 1.25	Expanded EBS Backfill 1.30	Reduced EBS in Fill 0.80	
11+85'WB'	0.00	39.95	0.57	0.00	0	0	0	0	0	0	0	0
11+87'WB'	2.26	40.18	0.58	0.00	3	0	0	3	0	0	0	3
12+00'WB'	12.95	49.37	0.22	0.00	21	0	0	25	0	0	0	25
12+05'WB'	5.00	55.12	0.00	0.00	10	0	0	35	0	0	0	34
12+10'WB'	5.00	29.93	0.00	0.00	8	0	0	42	0	0	0	42
12+25'WB'	15.00	29.04	0.00	0.00	16	0	0	59	0	0	0	58
12+30'WB'	5.00	37.08	3.14	0.00	6	0	0	65	1	0	0	64
12+40'WB'	10.00	36.10	5.07	0.00	14	2	0	78	3	0	0	76
12+50'WB'	10.00	36.05	16.15	0.00	13	4	0	92	8	0	0	84
12+55'WB'	5.00	36.07	27.90	0.00	7	4	0	98	13	0	0	86
12+60'WB'	5.00	45.36	28.59	0.00	8	5	0	106	19	0	0	87
13+00'WB'	40.00	48.49	22.51	0.00	70	38	0	176	66	0	0	109
13+18'WB'	18.38	49.11	21.49	0.00	33	15	0	209	85	0	0	124
13+50'WB'	31.62	48.13	18.63	0.00	57	23	0	266	115	0	0	151
13+85'WB'	35.00	47.67	18.80	0.00	62	24	0	328	145	0	0	183
13+90'WB'	5.00	48.44	19.71	0.00	9	4	0	337	149	0	0	187
14+00'WB'	10.00	48.84	23.11	0.00	18	8	0	355	159	0	0	195
14+40'WB'	40.00	50.41	36.74	0.00	74	44	0	428	215	0	0	214
14+50'WB'	10.00	50.60	41.95	0.00	19	15	0	447	233	0	0	214
14+55'WB'	4.56	50.62	44.09	0.00	9	7	0	455	242	0	0	214
14+75'WB'	20.44	50.68	48.16	0.00	38	35	0	494	286	0	0	208
14+77'WB'	2.36	42.17	0.00	0.00	4	2	0	498	288	0	0	210
15+00'WB'	22.64	41.85	0.00	0.00	35	0	0	533	288	0	0	245
15+41'WB'	41.44	38.68	0.15	0.00	62	0	0	595	288	0	0	307
15+46'WB'	4.47	43.94	0.00	0.00	7	0	0	602	288	0	0	313
15+50'WB'	4.09	28.15	0.00	0.00	5	0	0	607	288	0	0	319
15+91'WB'	40.74	26.97	0.00	0.00	42	0	0	649	288	0	0	360
15+95'WB'	4.26	26.87	0.00	0.00	4	0	0	653	288	0	0	365
16+00'WB'	5.00	52.42	0.00	0.00	7	0	0	660	288	0	0	372
16+08'WB'	8.23	35.25	6.29	0.00	13	1	0	674	290	0	0	384
16+10'WB'	1.77	35.16	5.20	0.00	2	0	0	676	290	0	0	386
16+27'WB'	17.32	34.94	5.14	0.00	22	3	0	699	294	0	0	404
					699	235	0					

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***ALL ITEMS CATEGORY 0010 UNLESS OTHERWISE NOTED.

STAGE 2 - STH 172 OFF RAMP - STA. 332+24'A' TO STA. 332+70'A'

STATION	Distance	AREA (SF)			Incremental Vol (CY) (Unadjusted)			Cumulative Vol (CY)				Mass Ordinate
		Cut	Fill	EBS	Cut	Fill	EBS	Cut 1.00	Expanded Fill 1.25	Expanded EBS Backfill 1.30	Reduced EBS in Fill 0.80	
332+24'A'	0.00	41.12	0.00	0.00	0	0	0	0	0	0	0	0
332+30'A'	6.40	43.37	0.00	0.00	10	0	0	10	0	0	0	10
332+35'A'	4.60	43.29	0.00	0.00	7	0	0	17	0	0	0	17
332+36'A'	0.95	65.48	0.16	0.00	2	0	0	19	0	0	0	19
332+40'A'	4.45	65.86	0.00	0.00	11	0	0	30	0	0	0	30
332+50'A'	10.00	69.16	0.11	0.00	25	0	0	55	0	0	0	55
332+51'A'	1.00	69.70	0.07	0.00	3	0	0	58	0	0	0	58
332+52'A'	1.00	78.48	0.08	0.00	3	0	0	60	0	0	0	60
332+55'A'	3.00	76.85	0.00	0.00	9	0	0	69	0	0	0	69
332+60'A'	5.00	74.49	0.00	0.00	14	0	0	83	0	0	0	83
332+70'A'	10.00	70.64	0.00	0.00	27	0	0	110	0	0	0	110
332+70'A'	0.38	70.52	0.00	0.00	1	0	0	111	0	0	0	111
					111	0	0					

STAGE 2 - STH 172 OFF RAMP NE CURB RETURN - STA. 00+06'ANE' TO STA. 00+22'ANE'

STATION	Distance	AREA (SF)			Incremental Vol (CY) (Unadjusted)			Cumulative Vol (CY)				Mass Ordinate
		Cut	Fill	EBS	Cut	Fill	EBS	Cut 1.00	Expanded Fill 1.25	Expanded EBS Backfill 1.30	Reduced EBS in Fill 0.80	
00+06'ANE'	0.00	8.81	0.01	0.00	0	0	0	0	0	0	0	0
00+09'ANE'	3.22	14.16	0.01	0.00	1	0	0	1	0	0	0	1
00+10'ANE'	0.78	18.00	0.01	0.00	0	0	0	2	0	0	0	2
00+11'ANE'	0.83	25.89	0.01	0.00	1	0	0	3	0	0	0	3
00+12'ANE'	1.17	23.60	0.01	0.00	1	0	0	4	0	0	0	4
00+14'ANE'	1.62	22.92	0.01	0.00	1	0	0	5	0	0	0	5
00+15'ANE'	1.38	23.08	0.01	0.00	1	0	0	6	0	0	0	6
00+20'ANE'	5.00	24.33	0.00	0.00	4	0	0	11	0	0	0	11
00+22'ANE'	1.50	24.17	0.00	0.00	1	0	0	12	0	0	0	12
					12	0	0					

***ALL ITEMS CATEGORY 0010 UNLESS OTHERWISE NOTED.

STAGE 2 - STH 172 ON RAMP NW CURB RETURN - STA. 00+03'BNW' TO STA. 01+27'BNW'

STATION	Distance	AREA (SF)			Incremental Vol (CY) (Unadjusted)			Cumulative Vol (CY)				Mass Ordinate
		Cut	Fill	EBS	Cut	Fill	EBS	Cut 1.00	Expanded Fill 1.25	Expanded EBS Backfill 1.30	Reduced EBS in Fill 0.80	
00+03'BNW'	0.00	9.69	48.56	0.00	0	0	0	0	0	0	0	0
00+10'BNW'	6.80	10.35	47.83	0.00	3	12	0	3	15	0	0	-13
00+20'BNW'	10.00	11.55	48.03	0.00	4	18	0	7	37	0	0	-31
00+30'BNW'	10.00	12.87	49.44	0.00	5	18	0	11	60	0	0	-49
00+40'BNW'	10.00	14.41	52.98	0.00	5	19	0	16	84	0	0	-67
00+50'BNW'	10.00	16.16	55.43	0.00	6	20	0	22	109	0	0	-87
00+60'BNW'	10.00	18.14	57.10	0.00	6	21	0	28	135	0	0	-107
00+70'BNW'	10.00	20.50	59.09	0.00	7	22	0	35	162	0	0	-126
00+80'BNW'	10.00	23.33	57.76	0.00	8	22	0	43	189	0	0	-145
00+90'BNW'	10.00	26.26	56.26	0.00	9	21	0	53	215	0	0	-162
01+00'BNW'	10.00	29.41	33.64	0.00	10	17	0	63	236	0	0	-173
01+10'BNW'	10.00	39.87	8.15	0.00	13	8	0	76	246	0	0	-170
01+14'BNW'	4.11	52.18	9.11	0.00	7	1	0	83	247	0	0	-164
01+20'BNW'	5.89	39.23	12.17	0.00	10	2	0	93	250	0	0	-157
01+27'BNW'	6.60	32.73	0.00	0.00	9	1	0	102	252	0	0	-150
					102	202	0					

STAGE 2 - STH 172 ON RAMP MIDDLE - STA. 00+00'D' TO STA. 00+24'D'

STATION	Distance	AREA (SF)			Incremental Vol (CY) (Unadjusted)			Cumulative Vol (CY)				Mass Ordinate
		Cut	Fill	EBS	Cut	Fill	EBS	Cut 1.00	Expanded Fill 1.25	Expanded EBS Backfill 1.30	Reduced EBS in Fill 0.80	
00+00'D'	0.00	44.21	0.15	0.00	0	0	0	0	0	0	0	0
00+05'D'	4.51	43.42	0.03	0.00	7	0	0	7	0	0	0	7
00+10'D'	5.00	42.16	0.00	0.00	8	0	0	15	0	0	0	15
00+11'D'	1.00	41.77	0.00	0.00	2	0	0	17	0	0	0	17
00+15'D'	3.72	46.51	0.00	0.00	6	0	0	23	0	0	0	23
00+20'D'	5.28	17.73	0.01	0.00	6	0	0	29	0	0	0	29
00+24'D'	3.73	15.12	0.10	0.00	2	0	0	31	0	0	0	31
					31	0	0					

***ALL ITEMS CATEGORY 0010 UNLESS OTHERWISE NOTED.

STAGE 2 - ASHLAND AVENUE SW CURB RETURN - STA. 00+01'SW" TO STA. 01+98'SW'

STATION	Distance	AREA (SF)			Incremental Vol (CY) (Unadjusted)			Cumulative Vol (CY)				Mass Ordinate
		Cut	Fill	EBS	Cut	Fill	EBS	Cut 1.00	Expanded Fill 1.25	Expanded EBS Backfill 1.30	Reduced EBS in Fill 0.80	
00+01'SW'	0.00	14.60	0.00	0.00	0	0	0	0	0	0	0	0
00+10'SW'	9.00	12.49	0.00	0.00	5	0	0	5	0	0	0	5
00+20'SW'	10.00	12.77	0.00	0.00	5	0	0	9	0	0	0	9
00+30'SW'	10.00	13.72	0.00	0.00	5	0	0	14	0	0	0	14
00+40'SW'	10.00	15.28	0.00	0.00	5	0	0	19	0	0	0	19
00+50'SW'	10.00	17.54	0.00	0.00	6	0	0	26	0	0	0	26
00+60'SW'	10.00	20.40	0.00	0.00	7	0	0	33	0	0	0	33
00+70'SW'	10.00	23.68	0.03	0.00	8	0	0	41	0	0	0	41
00+80'SW'	10.00	27.96	0.00	0.00	10	0	0	50	0	0	0	50
00+90'SW'	10.00	31.89	0.00	0.00	11	0	0	61	0	0	0	61
01+00'SW'	10.00	36.72	0.00	0.00	13	0	0	74	0	0	0	74
01+10'SW'	10.00	41.86	0.00	0.00	15	0	0	89	0	0	0	89
01+20'SW'	10.00	47.25	0.04	0.00	17	0	0	105	0	0	0	105
01+26'SW'	6.50	49.66	0.19	0.00	12	0	0	117	0	0	0	117
01+30'SW'	3.50	43.39	0.29	0.00	6	0	0	123	0	0	0	123
01+40'SW'	10.00	44.87	0.15	0.00	16	0	0	139	0	0	0	139
01+50'SW'	10.00	60.58	0.12	0.00	20	0	0	159	0	0	0	158
01+54'SW'	4.31	58.74	0.06	0.00	10	0	0	168	0	0	0	168
01+60'SW'	5.69	43.40	0.23	0.00	11	0	0	179	0	0	0	179
01+70'SW'	10.00	28.20	0.69	0.00	13	0	0	192	1	0	0	192
01+80'SW'	10.00	21.04	0.00	0.00	9	0	0	201	1	0	0	201
01+90'SW'	10.00	14.76	0.03	0.00	7	0	0	208	1	0	0	207
01+98'SW'	8.16	1.43	0.57	0.00	2	0	0	210	1	0	0	210
					210	1	0					

***ALL ITEMS CATEGORY 0010 UNLESS OTHERWISE NOTED.

STAGE 2 - HOLMGREN WAY SIDEALK - STA. 00+00'S' TO STA. 02+85'S'

STATION	Distance	AREA (SF)			Incremental Vol (CY) (Unadjusted)			Cumulative Vol (CY)				Mass Ordinate
		Cut	Fill	EBS	Cut	Fill	EBS	Cut 1.00	Expanded Fill 1.25	Expanded EBS Backfill 1.30	Reduced EBS in Fill 0.80	
00+00'S'	0.00	3.42	0.34	0.00	0	0	0	0	0	0	0	0
00+07'S'	7.37	2.82	0.81	0.00	1	0	0	1	0	0	0	1
00+15'S'	7.37	3.25	0.52	0.00	1	0	0	2	0	0	0	1
00+23'S'	8.47	3.86	0.13	0.00	1	0	0	3	1	0	0	2
00+25'S'	1.80	4.19	0.02	0.00	0	0	0	3	1	0	0	3
00+32'S'	6.67	5.85	0.00	0.00	1	0	0	4	1	0	0	4
00+50'S'	18.33	5.69	0.00	0.00	4	0	0	8	1	0	0	8
00+75'S'	25.00	6.27	0.00	0.00	6	0	0	14	1	0	0	13
01+00'S'	25.00	6.46	0.00	0.00	6	0	0	20	1	0	0	19
01+25'S'	25.00	6.53	0.00	0.00	6	0	0	26	1	0	0	25
01+50'S'	25.00	5.12	0.00	0.00	5	0	0	31	1	0	0	31
01+75'S'	25.00	5.07	0.09	0.00	5	0	0	36	1	0	0	35
02+00'S'	25.00	4.19	0.35	0.00	4	0	0	40	1	0	0	39
02+25'S'	25.00	3.88	0.41	0.00	4	0	0	44	1	0	0	43
02+50'S'	25.00	2.81	0.88	0.00	3	1	0	47	2	0	0	45
02+75'S'	25.00	1.37	1.16	0.00	2	1	0	49	3	0	0	46
02+85'S'	10.00	0.45	2.04	0.00	0	1	0	49	4	0	0	45
					49	3	0					

***ALL ITEMS CATEGORY 0010 UNLESS OTHERWISE NOTED.

STAGE 3A - CTH HH WESTBOUND - STA. 06+08'WB' TO STA. 24+30'WB'

STATION	Distance	AREA (SF)			Incremental Vol (CY) (Unadjusted)			Cumulative Vol (CY)				Mass Ordinate
		Cut	Fill	EBS	Cut	Fill	EBS	Cut 1.00	Expanded Fill 1.25	Expanded EBS Backfill 1.30	Reduced EBS in Fill 0.80	
06+08'WB'	0.00	65.94	3.58	0.00	0	0	0	0	0	0	0	0
06+50'WB'	42.00	66.02	3.50	0.00	103	6	0	103	7	0	0	96
07+00'WB'	50.00	68.56	4.34	0.00	125	7	0	227	16	0	0	211
07+20'WB'	20.00	69.22	7.81	0.00	51	4	0	278	22	0	0	257
07+34'WB'	13.70	69.35	13.61	0.00	35	5	0	313	28	0	0	285
07+40'WB'	6.30	70.32	18.25	0.00	16	4	0	330	33	0	0	297
07+50'WB'	10.00	69.40	25.54	0.00	26	8	0	356	43	0	0	312
07+97'WB'	47.49	69.26	41.95	0.00	122	59	0	478	117	0	0	360
08+00'WB'	2.51	69.27	42.37	0.00	6	4	0	484	122	0	0	362
08+50'WB'	50.00	72.08	30.45	0.00	131	67	0	615	207	0	0	408
08+71'WB'	21.14	73.11	21.78	0.00	57	20	0	672	232	0	0	440
08+80'WB'	8.86	75.54	13.35	0.00	24	6	0	696	239	0	0	457
08+90'WB'	10.00	68.78	7.95	0.00	27	4	0	723	244	0	0	479
09+00'WB'	10.00	66.70	8.90	0.00	25	3	0	748	248	0	0	500
09+50'WB'	50.00	54.58	10.76	0.00	112	18	0	860	271	0	0	589
09+71'WB'	21.30	48.75	11.20	0.00	41	9	0	901	282	0	0	619
10+00'WB'	28.70	47.31	11.82	0.00	51	12	0	952	297	0	0	655
10+50'WB'	50.00	47.74	11.44	0.00	88	22	0	1,040	324	0	0	716
10+56'WB'	5.72	48.31	10.95	0.00	10	2	0	1,050	327	0	0	723
10+71'WB'	15.20	40.18	0.00	0.00	25	3	0	1,075	331	0	0	744
11+00'WB'	29.08	40.08	0.05	0.00	43	0	0	1,118	331	0	0	788
11+50'WB'	50.00	40.00	0.16	0.00	74	0	0	1,192	331	0	0	861
11+85'WB'	34.79	33.88	0.00	0.00	48	0	0	1,240	331	0	0	909
16+27'WB'	0.00	39.23	0.00	0.00	0	0	0	1,240	331	0	0	909
16+50'WB'	22.68	37.77	1.32	0.00	32	1	0	1,272	332	0	0	941
17+00'WB'	50.00	35.26	2.46	0.00	68	4	0	1,340	336	0	0	1,004
17+22'WB'	22.08	34.71	2.23	0.00	29	2	0	1,369	339	0	0	1,030
17+50'WB'	27.92	34.56	1.85	0.00	36	2	0	1,404	341	0	0	1,063
18+00'WB'	50.00	34.38	1.10	0.00	64	3	0	1,468	345	0	0	1,124
18+50'WB'	50.00	34.96	2.63	0.00	64	3	0	1,533	349	0	0	1,184
18+53'WB'	3.41	35.19	2.30	0.00	4	0	0	1,537	349	0	0	1,188
19+00'WB'	46.59	35.34	2.31	0.00	61	4	0	1,598	354	0	0	1,243
19+50'WB'	50.00	35.27	0.29	0.00	65	2	0	1,663	357	0	0	1,306
20+00'WB'	50.00	34.21	0.21	0.00	64	0	0	1,728	358	0	0	1,370
20+10'WB'	10.00	33.43	0.91	0.00	13	0	0	1,740	358	0	0	1,382
20+11'WB'	0.82	65.04	12.01	0.00	1	0	0	1,742	358	0	0	1,383
20+50'WB'	39.18	64.74	11.46	0.00	94	17	0	1,836	380	0	0	1,456
21+00'WB'	50.00	62.66	14.73	0.00	118	24	0	1,954	410	0	0	1,544
21+50'WB'	50.00	63.46	19.69	0.00	117	32	0	2,070	450	0	0	1,621
22+00'WB'	50.00	65.53	20.47	0.00	119	37	0	2,190	496	0	0	1,694

***ALL ITEMS CATEGORY 0010 UNLESS OTHERWISE NOTED.

STAGE 3A - CTH HH WESTBOUND - STA. 06+08'WB' TO STA. 24+30'WB' (CONTINUED)

STATION	Distance	AREA (SF)			Incremental Vol (CY) (Unadjusted)			Cumulative Vol (CY)				Mass Ordinate
		Cut	Fill	EBS	Cut	Fill	EBS	Cut 1.00	Expanded Fill 1.25	Expanded EBS Backfill 1.30	Reduced EBS in Fill 0.80	
22+50'WB'	50.00	65.43	19.23	0.00	121	37	0	2,311	542	0	0	1,769
22+95'WB'	45.00	65.06	22.50	0.00	109	35	0	2,420	586	0	0	1,834
23+00'WB'	5.00	65.52	23.27	0.00	12	4	0	2,432	591	0	0	1,841
23+50'WB'	50.00	70.53	15.31	0.00	126	36	0	2,558	636	0	0	1,922
23+92'WB'	42.00	75.14	11.84	0.00	113	21	0	2,671	662	0	0	2,009
23+94'WB'	1.50	66.14	0.20	0.00	4	0	0	2,675	663	0	0	2,013
24+00'WB'	6.50	66.21	0.20	0.00	16	0	0	2,691	663	0	0	2,028
24+15'WB'	15.00	66.25	0.20	0.00	37	0	0	2,728	663	0	0	2,065
24+18'WB'	2.91	66.30	0.20	0.00	7	0	0	2,735	663	0	0	2,072
24+20'WB'	2.09	68.24	0.02	0.00	5	0	0	2,740	663	0	0	2,077
24+25'WB'	5.00	75.67	0.00	0.00	13	0	0	2,754	663	0	0	2,091
24+30'WB'	4.56	34.37	0.00	0.00	9	0	0	2,763	663	0	0	2,100
					2,763	530	0					

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***ALL ITEMS CATEGORY 0010 UNLESS OTHERWISE NOTED.

STAGE 3A - STH 172 OFF RAMP NW CURB RETURN - STA. 00+31'ANW' TO STA. 01+76'ANW'

STATION	Distance	AREA (SF)			Incremental Vol (CY) (Unadjusted)			Cumulative Vol (CY)				Mass Ordinate
		Cut	Fill	EBS	Cut	Fill	EBS	Cut 1.00	Expanded Fill 1.25	Expanded EBS Backfill 1.30	Reduced EBS in Fill 0.80	
00+31'ANW'	0.00	9.35	11.81	0.00	0	0	0	0	0	0	0	0
00+40'ANW'	9.00	11.09	11.60	0.00	3	4	0	3	5	0	0	-1
00+50'ANW'	10.00	12.80	11.73	0.00	4	4	0	8	10	0	0	-2
00+60'ANW'	10.00	15.13	11.70	0.00	5	4	0	13	16	0	0	-3
00+70'ANW'	10.00	18.21	11.22	0.00	6	4	0	19	21	0	0	-2
00+75'ANW'	5.00	19.31	10.98	0.00	3	2	0	23	24	0	0	-1
00+80'ANW'	5.00	20.84	10.76	0.00	4	2	0	26	26	0	0	0
00+90'ANW'	10.00	24.23	10.32	0.00	8	4	0	35	31	0	0	4
01+00'ANW'	10.00	27.63	10.51	0.00	10	4	0	44	36	0	0	9
01+10'ANW'	10.00	30.39	14.47	0.00	11	5	0	55	42	0	0	13
01+11'ANW'	1.00	30.71	14.72	0.00	1	1	0	56	42	0	0	14
01+12'ANW'	1.00	31.24	1.64	0.00	1	0	0	57	43	0	0	15
01+20'ANW'	8.00	36.66	2.04	0.00	10	1	0	67	43	0	0	24
01+25'ANW'	5.00	43.13	1.82	0.00	7	0	0	75	44	0	0	31
01+30'ANW'	5.00	51.35	1.23	0.00	9	0	0	84	44	0	0	39
01+34'ANW'	3.78	60.36	1.10	0.00	8	0	0	91	44	0	0	47
01+40'ANW'	6.22	52.87	0.78	0.00	13	0	0	104	45	0	0	60
01+42'ANW'	2.00	51.06	0.59	0.00	4	0	0	108	45	0	0	64
01+48'ANW'	6.00	47.87	0.00	0.00	11	0	0	119	45	0	0	75
01+50'ANW'	2.00	45.15	0.00	0.00	3	0	0	123	45	0	0	78
01+60'ANW'	10.00	48.83	0.00	0.00	17	0	0	140	45	0	0	95
01+70'ANW'	10.00	47.66	0.66	0.00	18	0	0	158	45	0	0	113
01+75'ANW'	5.00	49.25	0.00	0.00	9	0	0	167	45	0	0	122
01+76'ANW'	1.00	49.70	0.00	0.00	2	0	0	169	45	0	0	124
					169	36	0					

***ALL ITEMS CATEGORY 0010 UNLESS OTHERWISE NOTED.

STAGE 3A - STH 172 ON RAMP - STA. 232+08'C' TO STA. 325+69'C'

STATION	Distance	AREA (SF)			Incremental Vol (CY) (Unadjusted)			Cumulative Vol (CY)				Mass Ordinate
		Cut	Fill	EBS	Cut	Fill	EBS	Cut 1.00	Expanded Fill 1.25	Expanded EBS Backfill 1.30	Reduced EBS in Fill 0.80	
323+08'C'	0.00	32.20	10.82	0.00	0	0	0	0	0	0	0	0
323+25'C'	17.17	34.90	10.54	0.00	21	7	0	21	8	0	0	13
323+50'C'	25.00	38.89	10.68	0.00	34	10	0	55	21	0	0	35
323+65'C'	15.28	41.19	12.89	0.00	23	7	0	78	29	0	0	49
323+67'C'	2.14	41.47	12.11	0.00	3	1	0	81	30	0	0	51
323+75'C'	7.58	42.47	13.35	0.00	12	4	0	93	35	0	0	58
324+00'C'	25.00	46.34	16.02	0.00	41	14	0	134	52	0	0	83
324+25'C'	25.00	50.00	20.16	0.00	45	17	0	179	73	0	0	106
324+50'C'	25.00	53.24	45.64	0.00	48	30	0	227	111	0	0	116
324+75'C'	25.00	56.55	53.27	0.00	51	46	0	278	168	0	0	109
325+00'C'	25.00	61.91	51.92	0.00	55	49	0	332	229	0	0	103
325+25'C'	25.00	69.54	30.32	0.00	61	38	0	393	277	0	0	117
325+35'C'	10.00	74.09	25.19	0.00	27	10	0	420	289	0	0	130
325+37'C'	2.01	36.09	25.75	0.00	4	2	0	424	292	0	0	132
325+50'C'	12.99	36.03	23.18	0.00	17	12	0	441	306	0	0	135
325+69'C'	19.25	40.32	23.51	0.00	27	17	0	469	327	0	0	141
					469	262	0					

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***ALL ITEMS CATEGORY 0010 UNLESS OTHERWISE NOTED.

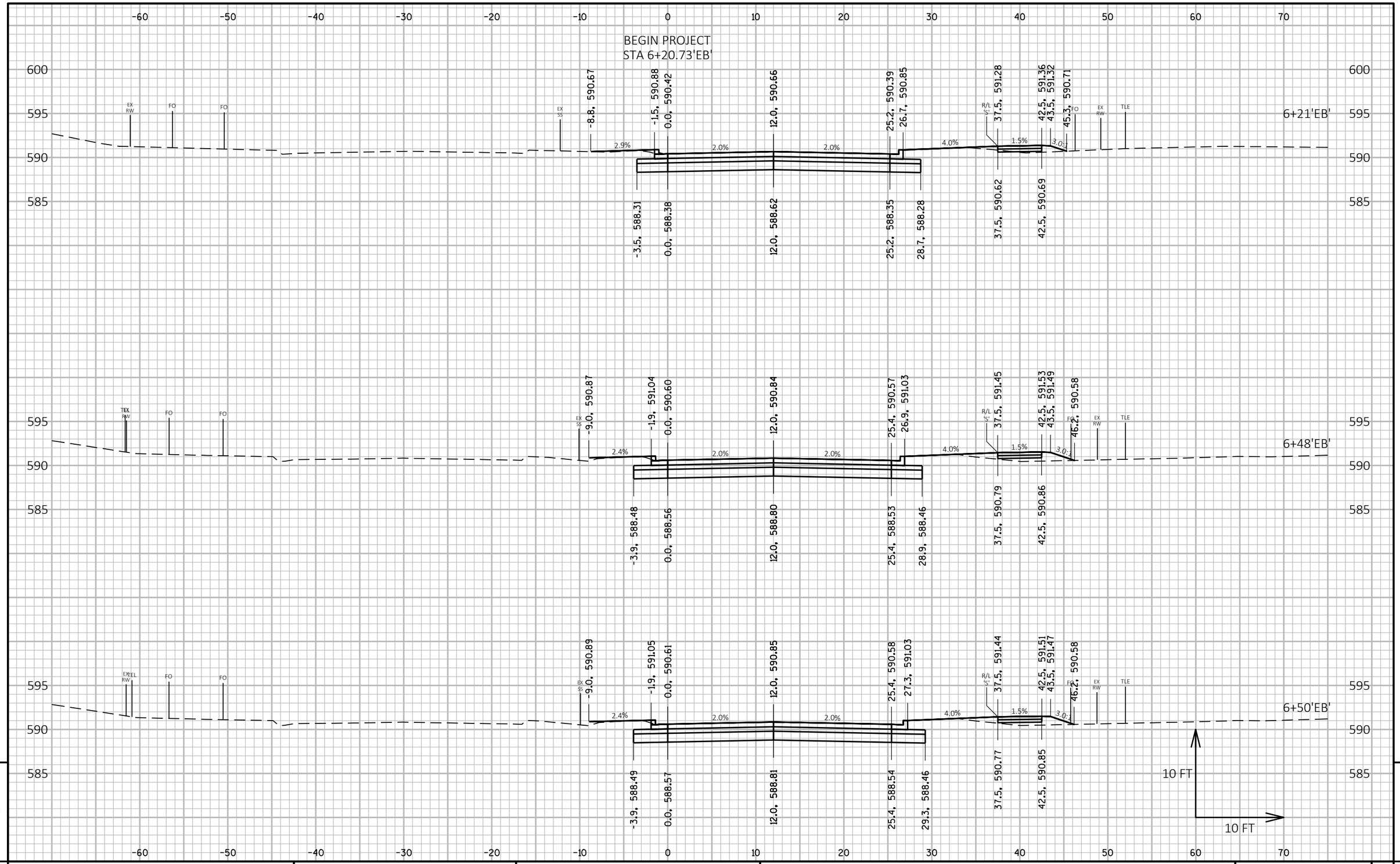
STAGE 3A - STH 172 ON RAMP MIDDLE - STA. 00+24'D' TO STA. 02+10'D'

STATION	Distance	AREA (SF)			Incremental Vol (CY) (Unadjusted)			Cumulative Vol (CY)				Mass Ordinate
		Cut	Fill	EBS	Cut	Fill	EBS	Cut 1.00	Expanded Fill 1.25	Expanded EBS Backfill 1.30	Reduced EBS in Fill 0.80	
00+24'D'	0.00	16.35	0.00	0.00	0	0	0	0	0	0	0	0
00+30'D'	6.26	16.96	0.00	0.00	4	0	0	4	0	0	0	4
00+40'D'	10.00	16.32	0.00	0.00	6	0	0	10	0	0	0	10
00+50'D'	10.00	16.12	0.00	0.00	6	0	0	16	0	0	0	16
00+60'D'	10.00	16.28	0.00	0.00	6	0	0	22	0	0	0	22
00+70'D'	10.00	16.02	0.01	0.00	6	0	0	28	0	0	0	28
00+80'D'	10.00	15.85	0.00	0.00	6	0	0	34	0	0	0	34
00+90'D'	10.00	15.70	0.01	0.00	6	0	0	40	0	0	0	40
01+00'D'	10.00	15.51	0.01	0.00	6	0	0	46	0	0	0	46
01+10'D'	10.00	15.32	0.02	0.00	6	0	0	51	0	0	0	51
01+20'D'	10.00	15.29	0.03	0.00	6	0	0	57	0	0	0	57
01+30'D'	10.00	15.36	0.06	0.00	6	0	0	63	0	0	0	63
01+40'D'	10.00	16.08	0.08	0.00	6	0	0	68	0	0	0	68
01+50'D'	10.00	17.48	0.10	0.00	6	0	0	75	0	0	0	74
01+60'D'	10.00	16.69	0.09	0.00	6	0	0	81	0	0	0	81
01+70'D'	10.00	21.41	0.00	0.00	7	0	0	88	0	0	0	88
01+75'D'	5.00	18.59	0.00	0.00	4	0	0	92	0	0	0	92
01+80'D'	5.00	21.83	0.00	0.00	4	0	0	95	0	0	0	95
01+90'D'	10.00	19.29	0.00	0.00	8	0	0	103	0	0	0	103
02+00'D'	10.00	20.52	0.00	0.00	7	0	0	110	0	0	0	110
02+10'D'	9.90	17.92	0.00	0.00	7	0	0	117	0	0	0	117
					117	0	0					

STAGE 2 - ASHLAND AVENUE NW CURB RETURN - STA. 00+01'NW" TO STA. 00+76'NW'

STATION	Distance	AREA (SF)			Incremental Vol (CY) (Unadjusted)			Cumulative Vol (CY)				Mass Ordinate
		Cut	Fill	EBS	Cut	Fill	EBS	Cut 1.00	Expanded Fill 1.25	Expanded EBS Backfill 1.30	Reduced EBS in Fill 0.80	
00+01'NW'	0.00	13.39	1.35	0.00	0	0	0	0	0	0	0	0
00+10'NW'	9.00	17.22	1.58	0.00	5	0	0	5	1	0	0	4
00+20'NW'	10.00	24.34	1.67	0.00	8	1	0	13	1	0	0	11
00+30'NW'	10.00	42.17	2.78	0.00	12	1	0	25	2	0	0	23
00+40'NW'	10.00	23.18	1.49	0.00	12	1	0	37	3	0	0	34
00+50'NW'	10.00	13.47	0.61	0.00	7	0	0	44	4	0	0	40
00+60'NW'	10.00	9.47	0.09	0.00	4	0	0	48	4	0	0	44
00+70'NW'	10.00	9.46	0.01	0.00	4	0	0	52	4	0	0	48
00+76'NW'	5.50	8.97	0.02	0.00	2	0	0	54	4	0	0	50
					54	3	0					

***ALL ITEMS CATEGORY 0010 UNLESS OTHERWISE NOTED.



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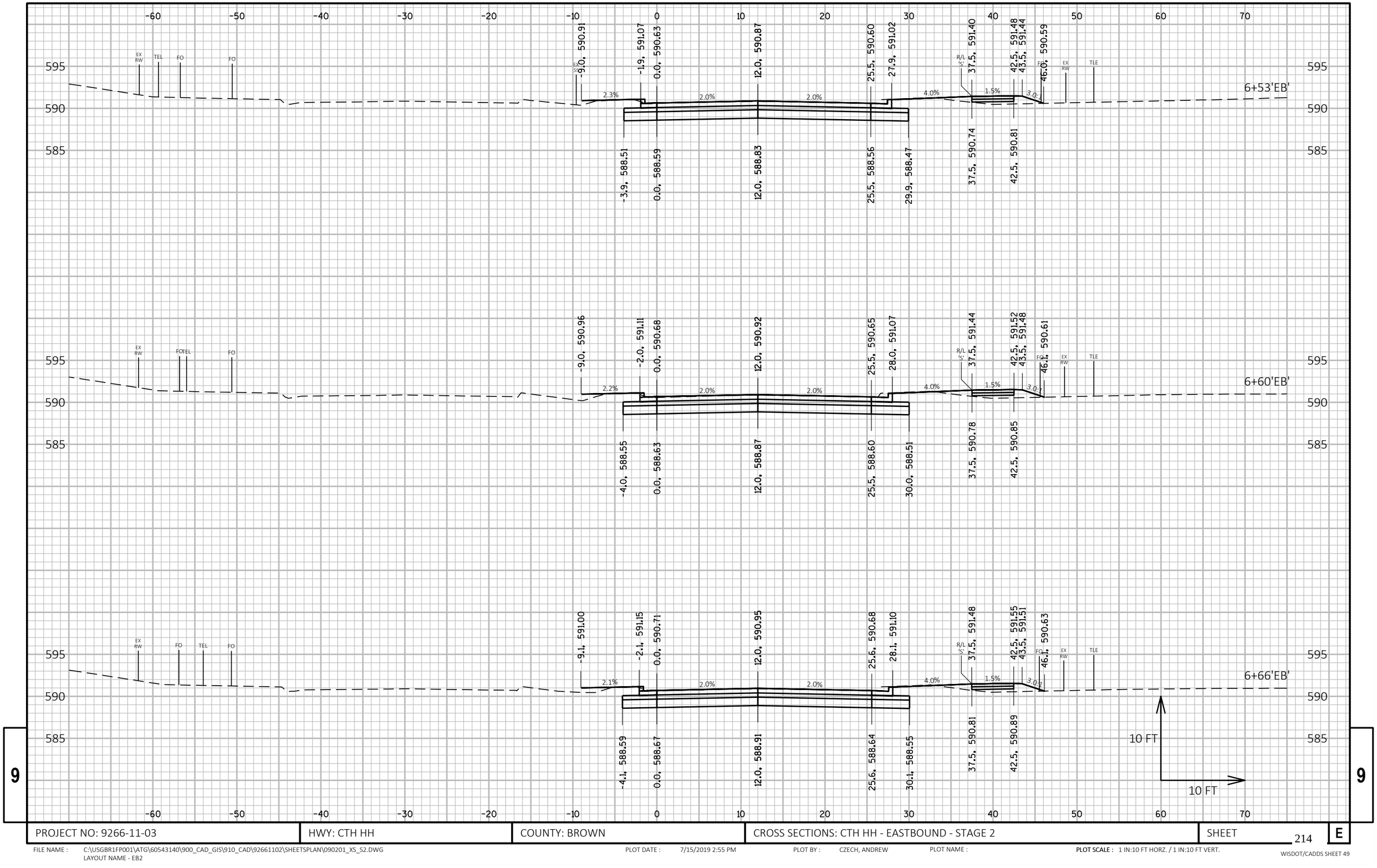
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PROJECT NO: 9266-11-03	HWY: CTH HH	COUNTY: BROWN	CROSS SECTIONS: CTH HH - EASTBOUND - STAGE 2	SHEET 213	E

FILE NAME : C:\USGBR1FP001\ATG\60543140\900_CAD_GIS\910_CAD\92661102\SHEETSPLAN\090201_XS_S2.DWG
LAYOUT NAME - EB1

PLOT DATE : 7/15/2019 2:54 PM PLOT BY : CZECH, ANDREW PLOT NAME : **PLOT SCALE :** 1 IN:10 FT HORZ. / 1 IN:10 FT VERT.

WISDOT/CADDS SHEET 49



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PROJECT NO: 9266-11-03	HWY: CTH HH	COUNTY: BROWN	CROSS SECTIONS: CTH HH - EASTBOUND - STAGE 2	SHEET 214	E

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LAYOUT NAME - EB2

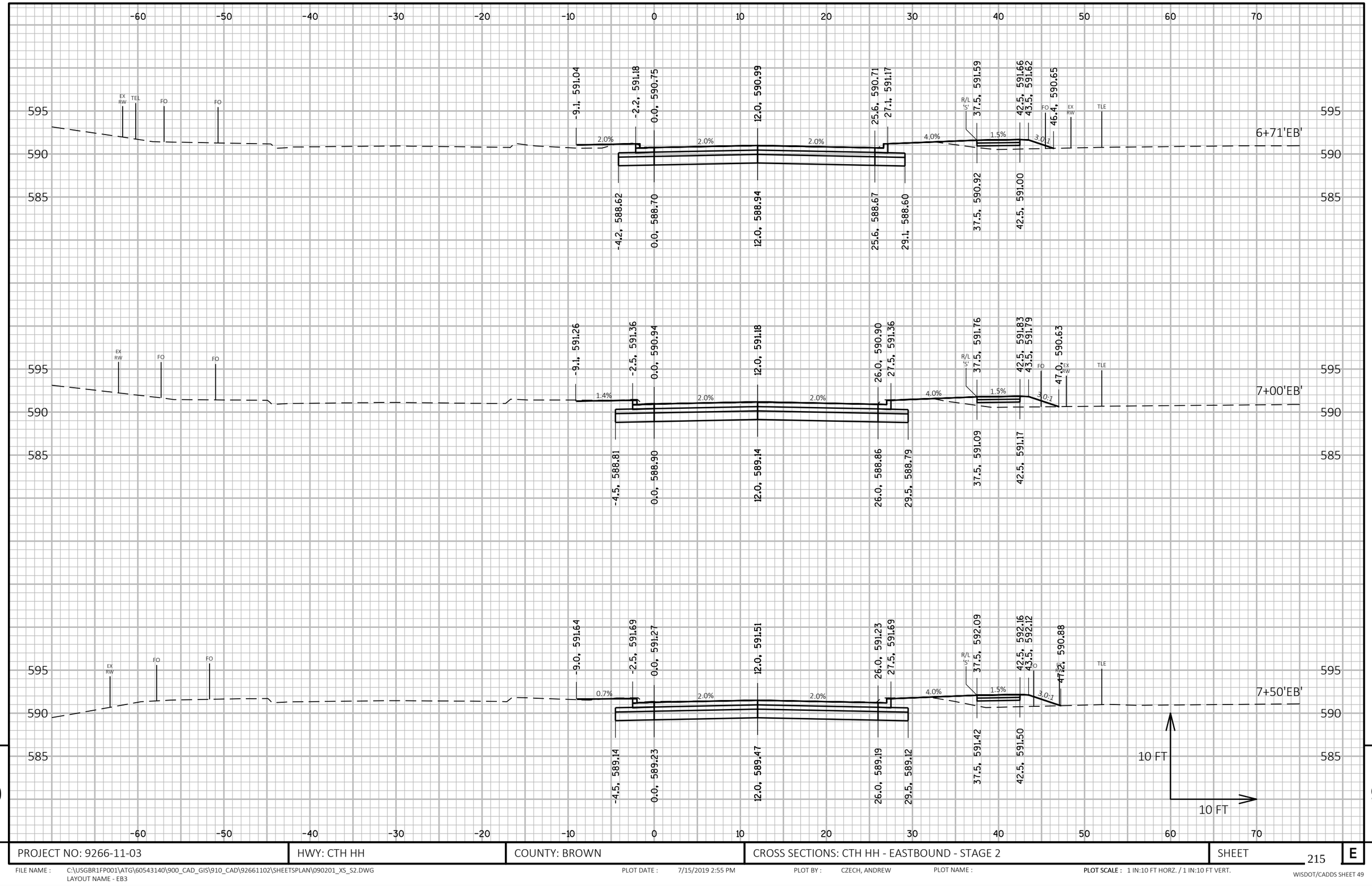
PLOT DATE : 7/15/2019 2:55 PM

PLOT BY : CZECH, ANDREW

PLOT NAME :

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

WISDOT/CADDS SHEET 49



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9

PROJECT NO: 9266-11-03	HWY: CTH HH	COUNTY: BROWN	CROSS SECTIONS: CTH HH - EASTBOUND - STAGE 2	SHEET 215	E

FILE NAME : C:\USGBR1FP001\ATG\60543140\900_CAD_GIS\910_CAD\92661102\SHEETSPLAN\090201_XS_S2.DWG
LAYOUT NAME - EB3

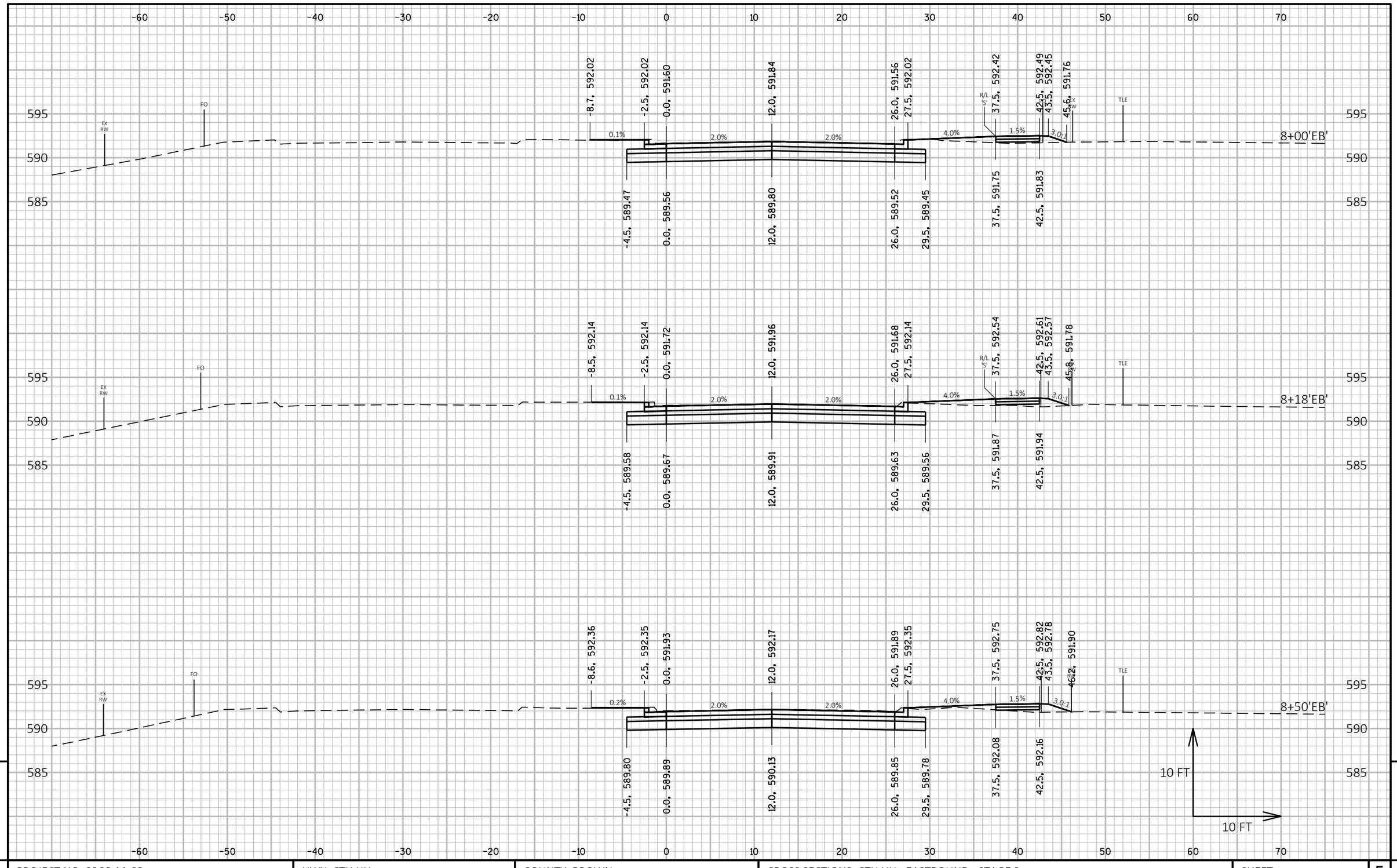
PLOT DATE : 7/15/2019 2:55 PM

PLOT BY : CZECH, ANDREW

PLOT NAME :

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

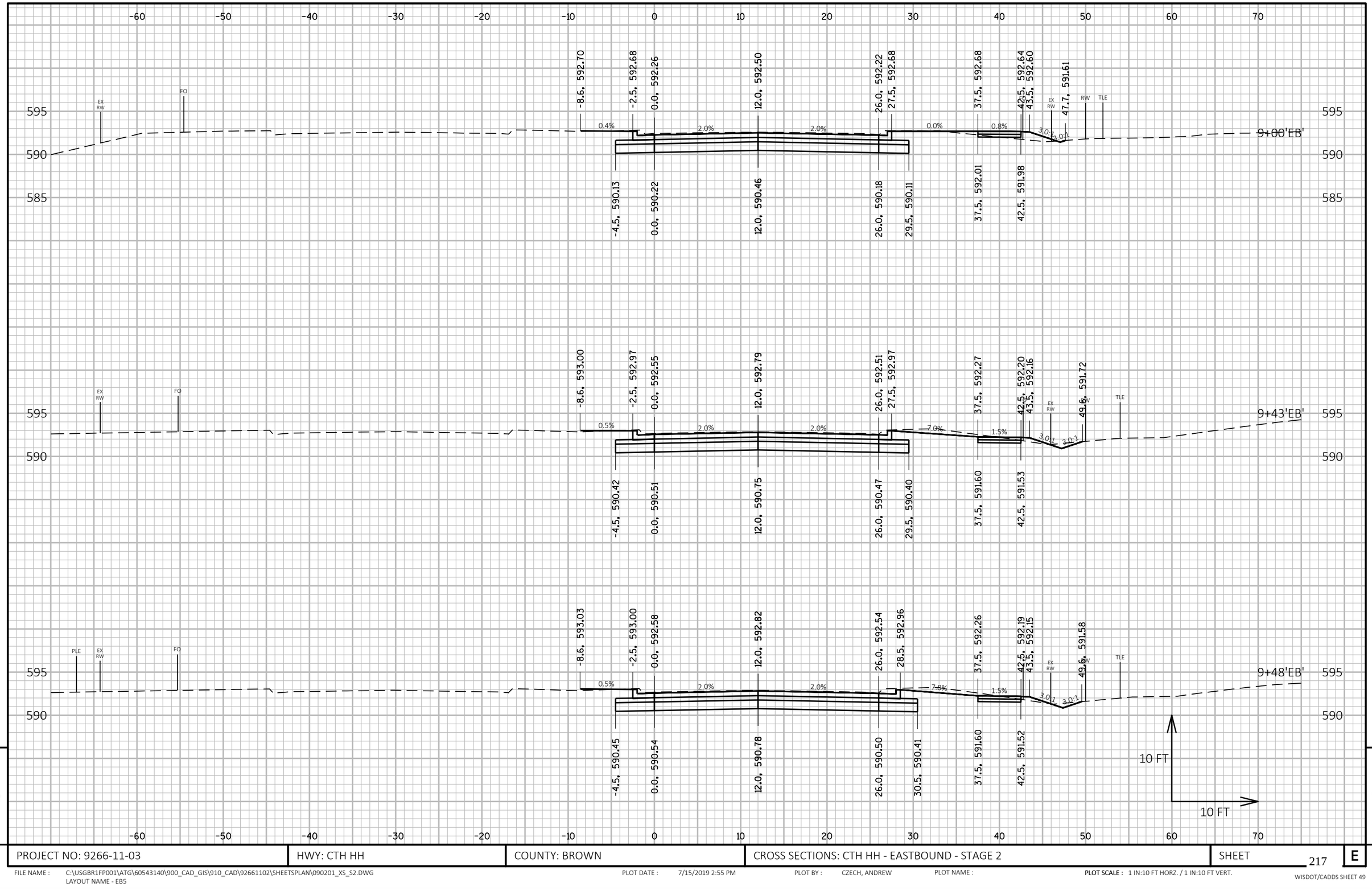
WISDOT/CADDS SHEET 49



9 9

PROJECT NO: 9266-11-03	HWY: CTH HH	COUNTY: BROWN	CROSS SECTIONS: CTH HH - EASTBOUND - STAGE 2	SHEET 216	E

FILE NAME : C:\USGBR1FP001\ATG\60543140\900_CAD_GIS\910_CAD\92661102\SHEETSPLAN\090201_XS_S2.DWG
LAYOUT NAME - EB4
PLOT DATE : 7/15/2019 2:55 PM
PLOT BY : CZECH, ANDREW
PLOT NAME :
PLOT SCALE : 1 IN:10 FT HORZ. / 1 IN:10 FT VERT.
WISDOT/CADDS SHEET 49



9

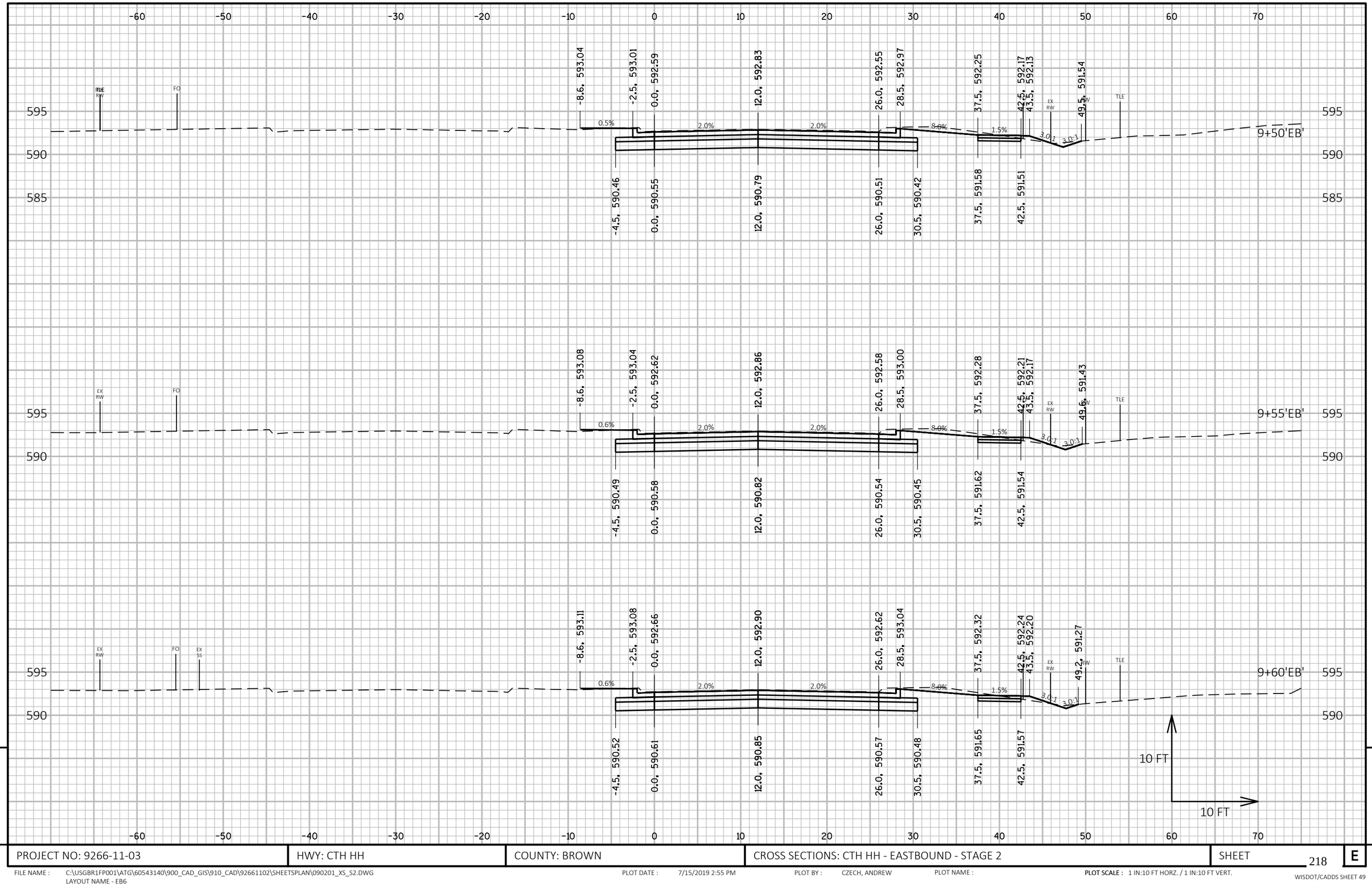
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FILE NAME : C:\USGBR1FP001\ATG\60543140\900_CAD_GIS\910_CAD\92661102\SHEETSPLAN\090201_XS_S2.DWG
LAYOUT NAME - EB5

PLOT DATE : 7/15/2019 2:55 PM PLOT BY : CZECH, ANDREW PLOT NAME : **PLOT SCALE :** 1 IN:10 FT HORZ. / 1 IN:10 FT VERT.

WISDOT/CADDS SHEET 49



9

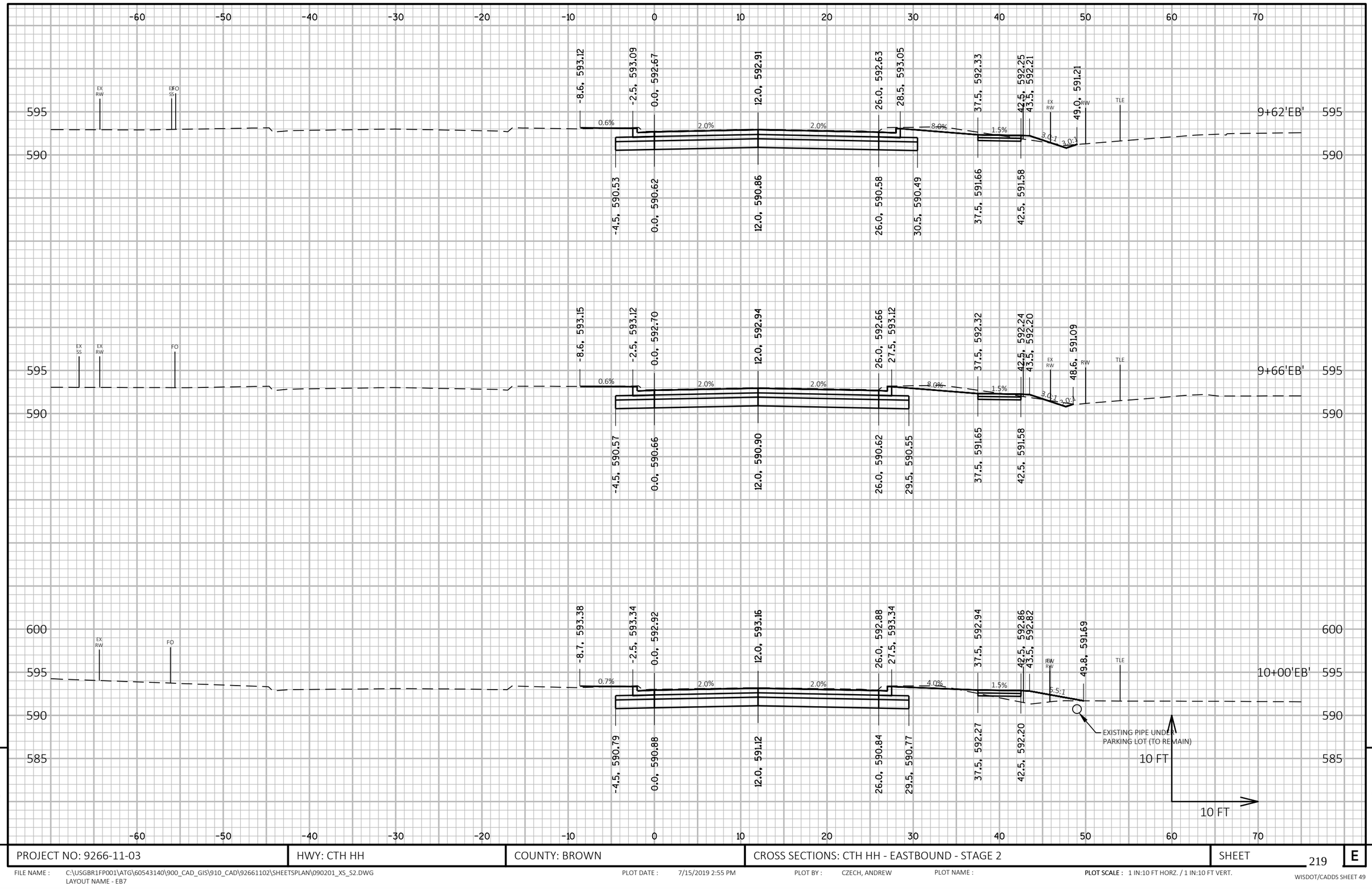
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PROJECT NO: 9266-11-03	HWY: CTH HH	COUNTY: BROWN	CROSS SECTIONS: CTH HH - EASTBOUND - STAGE 2	SHEET 218	E

FILE NAME : C:\USGBR1FP001\ATG\60543140\900_CAD_GIS\910_CAD\92661102\SHEETSPLAN\090201_XS_S2.DWG
LAYOUT NAME - EB6

PLOT DATE : 7/15/2019 2:55 PM PLOT BY : CZECH, ANDREW PLOT NAME : **PLOT SCALE :** 1 IN:10 FT HORZ. / 1 IN:10 FT VERT.

WISDOT/CADDS SHEET 49

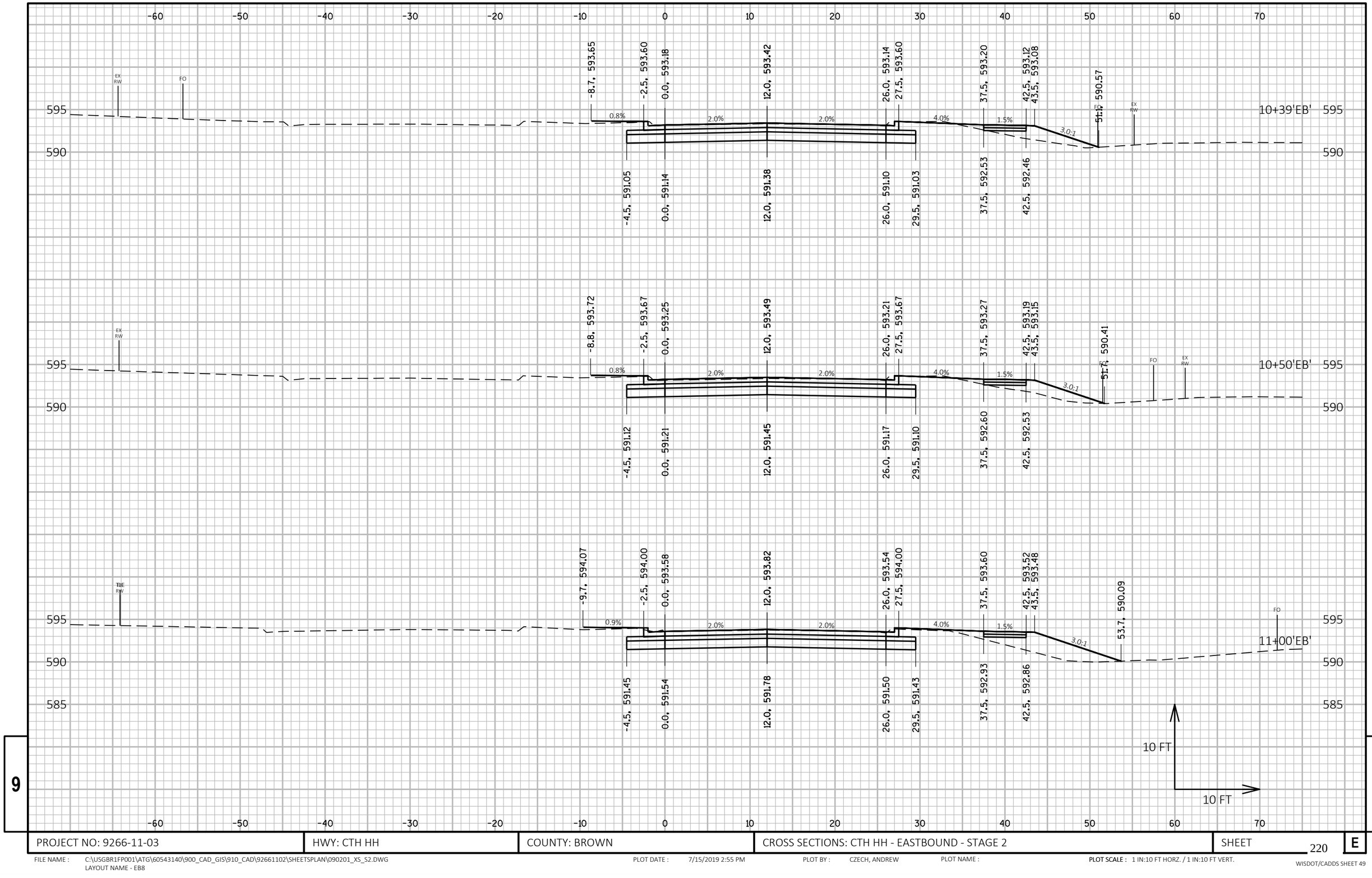


PROJECT NO: 9266-11-03	HWY: CTH HH	COUNTY: BROWN	CROSS SECTIONS: CTH HH - EASTBOUND - STAGE 2	SHEET 219	E

FILE NAME : C:\USGBR1FP001\ATG\60543140\900_CAD_GIS\910_CAD\92661102\SHEETSPLAN\090201_XS_S2.DWG
LAYOUT NAME - EB7

PLOT DATE : 7/15/2019 2:55 PM PLOT BY : CZECH, ANDREW PLOT NAME : PLOT SCALE : 1 IN:10 FT HORZ. / 1 IN:10 FT VERT.

WISDOT/CADDS SHEET 49



9

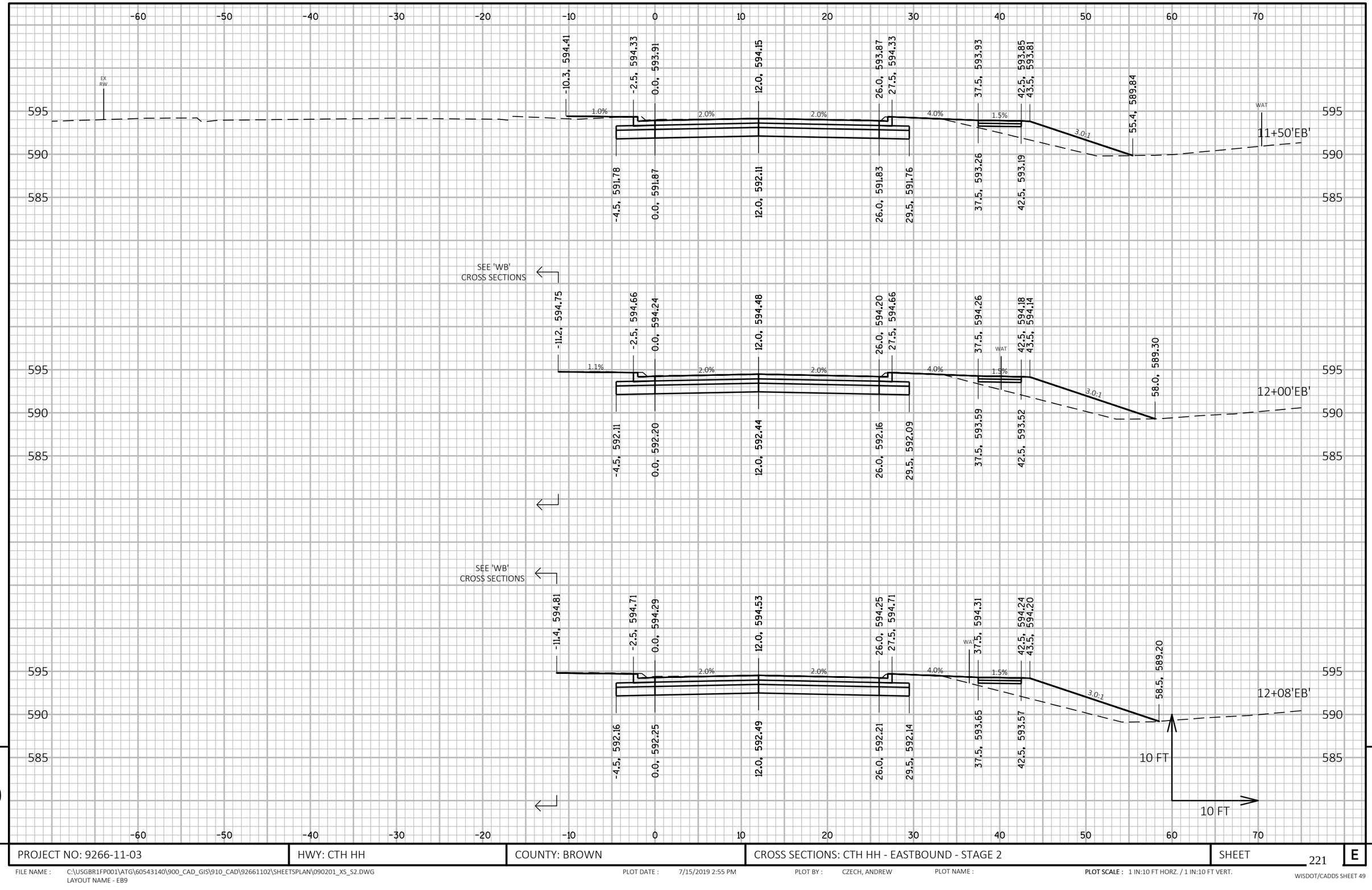
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PROJECT NO: 9266-11-03	HWY: CTH HH	COUNTY: BROWN	CROSS SECTIONS: CTH HH - EASTBOUND - STAGE 2	SHEET 220	E

FILE NAME : C:\USGBR1FP001\ATG\60543140\900_CAD_GIS\910_CAD\92661102\SHEETSPLAN\090201_XS_S2.DWG
LAYOUT NAME - EB8

PLOT DATE : 7/15/2019 2:55 PM PLOT BY : CZECH, ANDREW PLOT NAME : PLOT SCALE : 1 IN:10 FT HORZ. / 1 IN:10 FT VERT.

WISDOT/CADDS SHEET 49



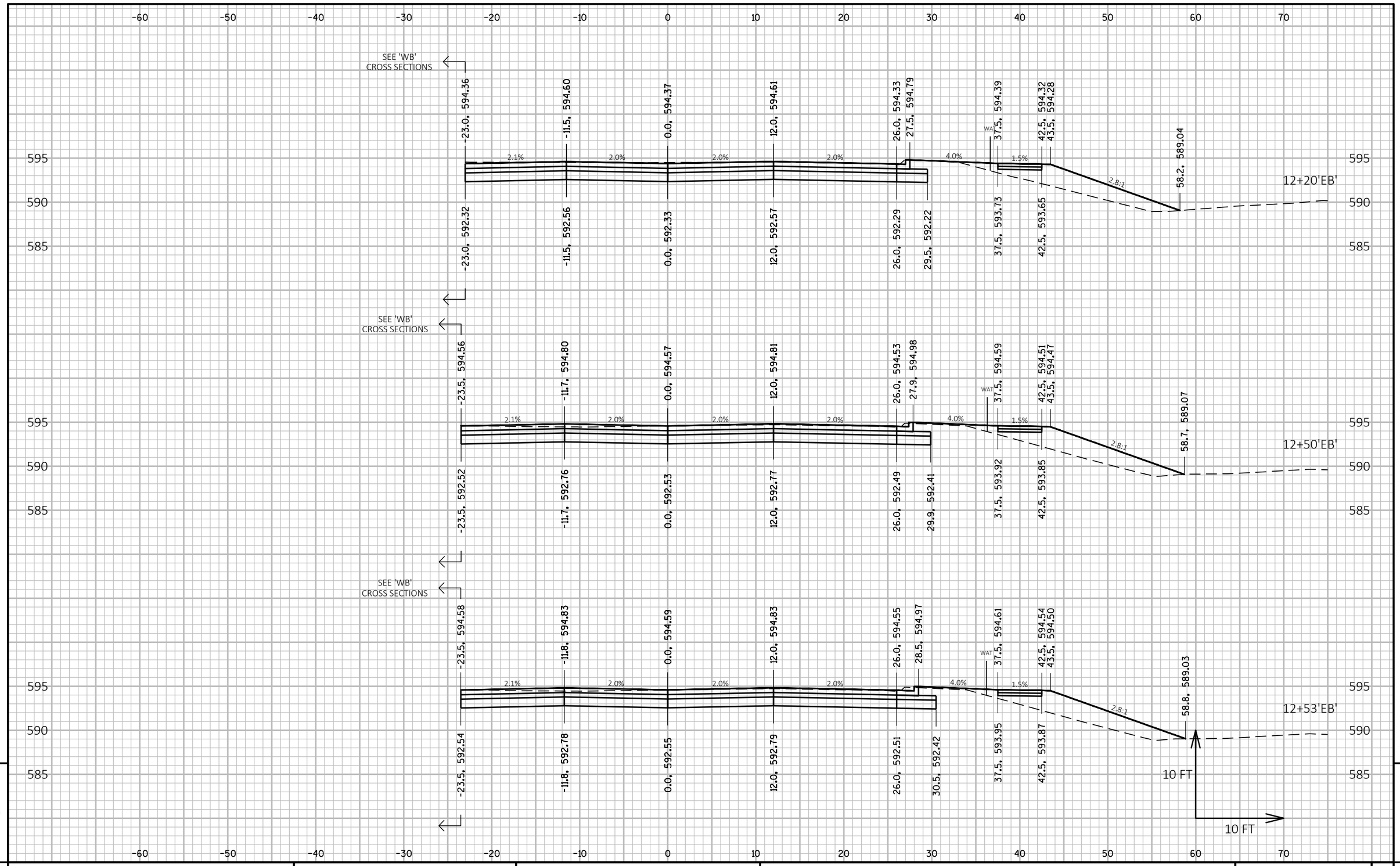
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PROJECT NO: 9266-11-03	HWY: CTH HH	COUNTY: BROWN	CROSS SECTIONS: CTH HH - EASTBOUND - STAGE 2	SHEET 221	E

FILE NAME : C:\USGBR1FP001\ATG\60543140\900_CAD_GIS\910_CAD\92661102\SHEETSPLAN\090201_XS_S2.DWG
LAYOUT NAME - EB9

PLOT DATE : 7/15/2019 2:55 PM PLOT BY : CZECH, ANDREW PLOT NAME : **PLOT SCALE :** 1 IN:10 FT HORZ. / 1 IN:10 FT VERT.

WISDOT/CADDS SHEET 49



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9

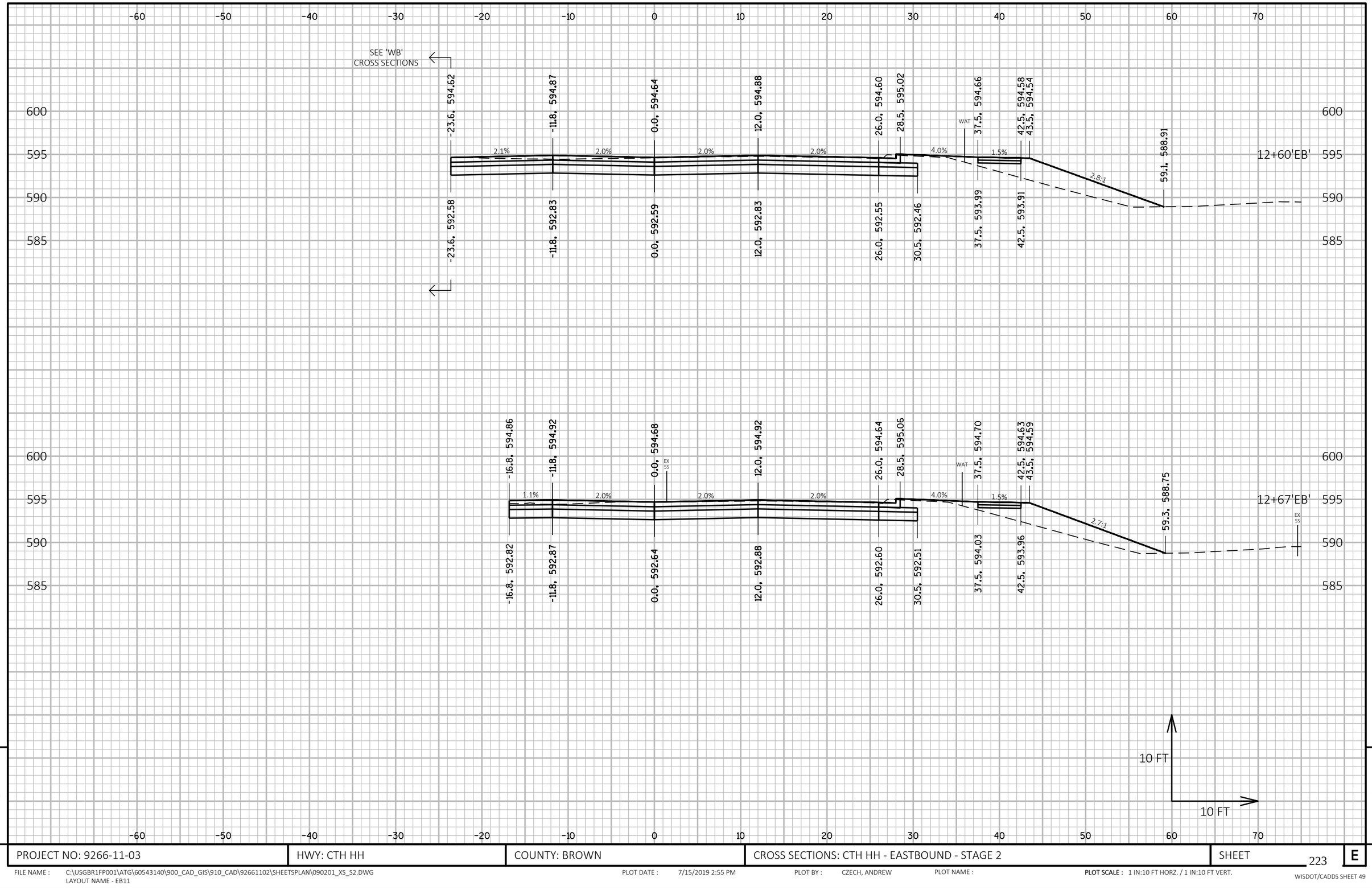
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FILE NAME : C:\USGBR1FP001\ATG\60543140\900_CAD_GIS\910_CAD\92661102\SHEETSPLAN\090201_XS_S2.DWG
LAYOUT NAME - EB10

PLOT DATE : 7/15/2019 2:55 PM PLOT BY : CZECH, ANDREW PLOT NAME :

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

WISDOT/CADDS SHEET 49



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9

PROJECT NO: 9266-11-03	HWY: CTH HH	COUNTY: BROWN	CROSS SECTIONS: CTH HH - EASTBOUND - STAGE 2	SHEET 223	E

FILE NAME : C:\USGBR1FP001\ATG\60543140\900_CAD_GIS\910_CAD\92661102\SHEETSPLAN\090201_XS_S2.DWG
LAYOUT NAME - EB11

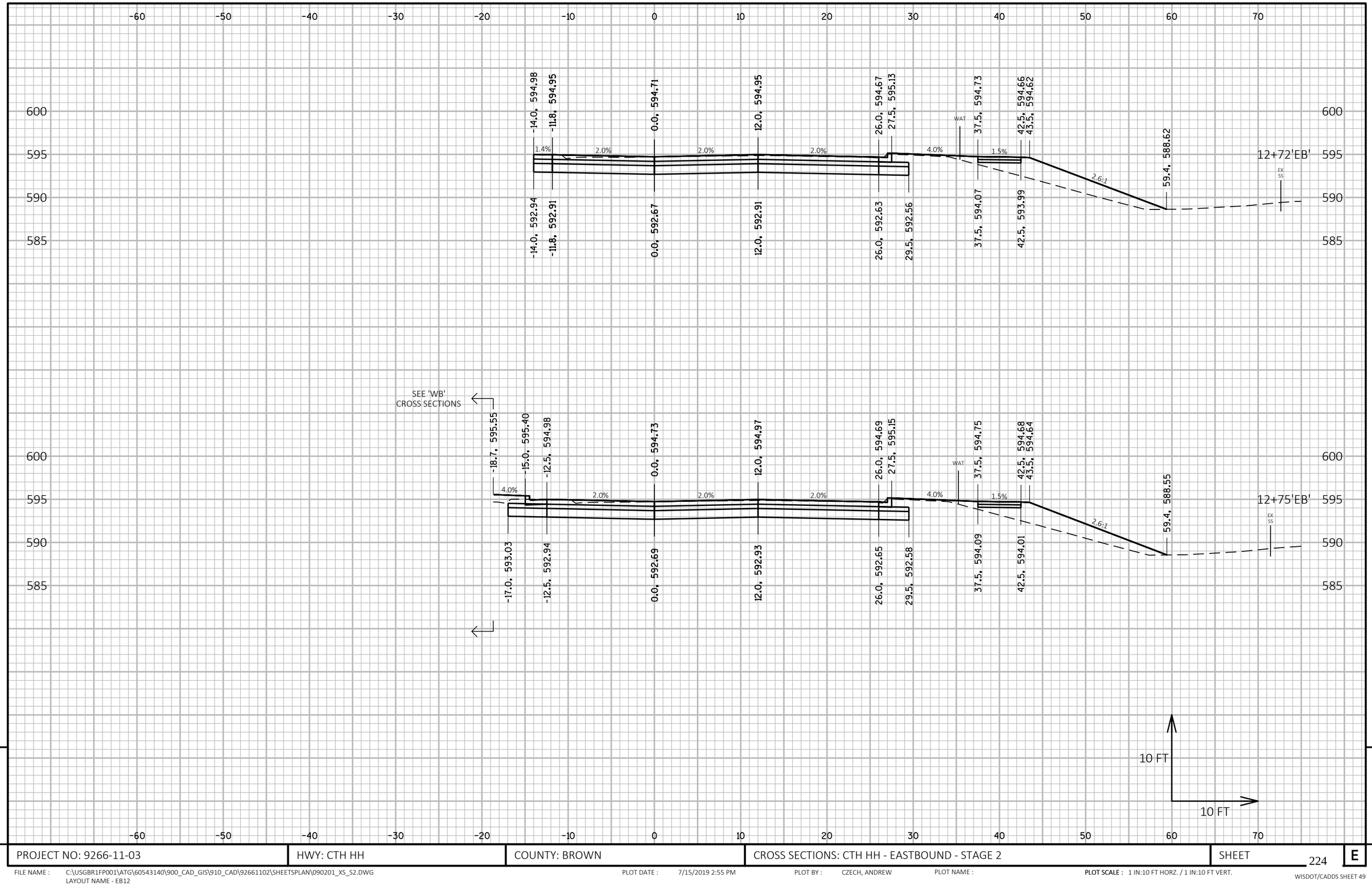
PLOT DATE : 7/15/2019 2:55 PM

PLOT BY : CZECH, ANDREW

PLOT NAME :

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

WISDOT/CADDS SHEET 49



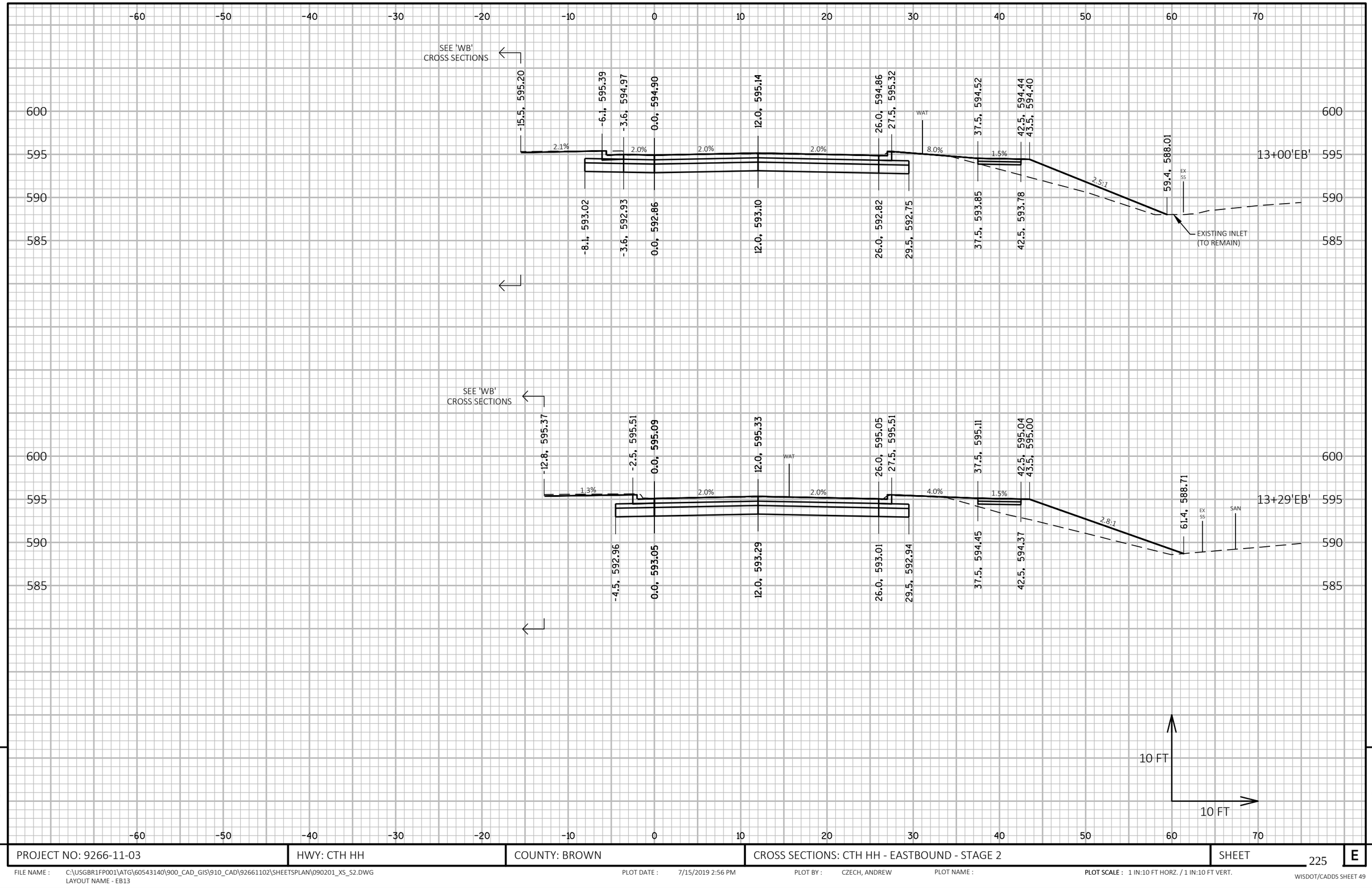
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FILE NAME : C:\USGBR1FP001\ATG\60543140\900_CAD_GIS\910_CAD\92661102\SHEETSPLAN\090201_XS_S2.DWG
LAYOUT NAME - EB12

PLOT DATE : 7/15/2019 2:55 PM PLOT BY : CZECH, ANDREW PLOT NAME :

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

WISDOT/CADDS SHEET 49

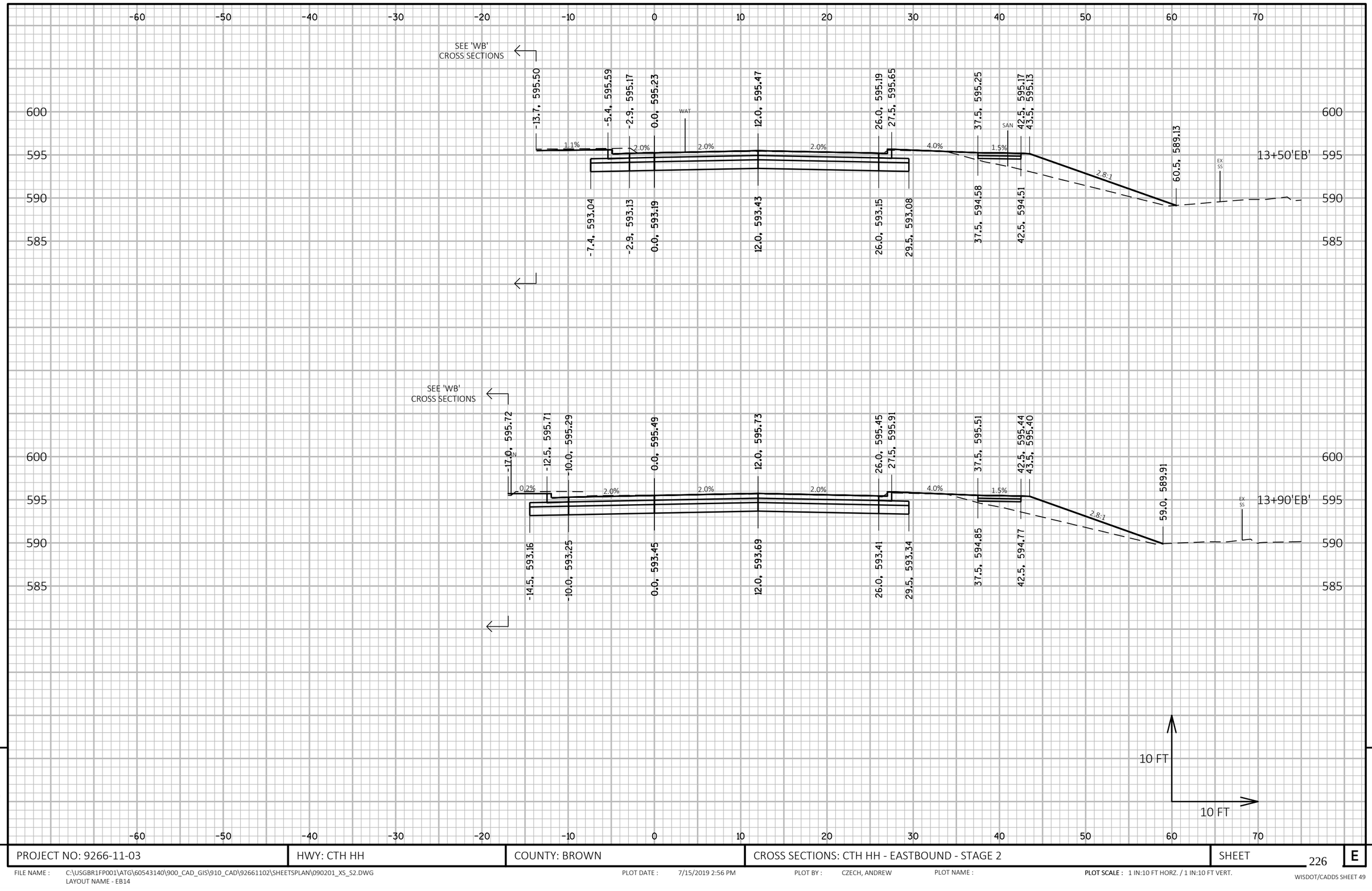


PROJECT NO: 9266-11-03	HWY: CTH HH	COUNTY: BROWN	CROSS SECTIONS: CTH HH - EASTBOUND - STAGE 2	SHEET 225	E

FILE NAME : C:\USGBR1FP001\ATG\60543140\900_CAD_GIS\910_CAD\92661102\SHEETSPLAN\090201_XS_S2.DWG
LAYOUT NAME - EB13

PLOT DATE : 7/15/2019 2:56 PM PLOT BY : CZECH, ANDREW PLOT NAME : PLOT SCALE : 1 IN:10 FT HORZ. / 1 IN:10 FT VERT.

WISDOT/CADDS SHEET 49



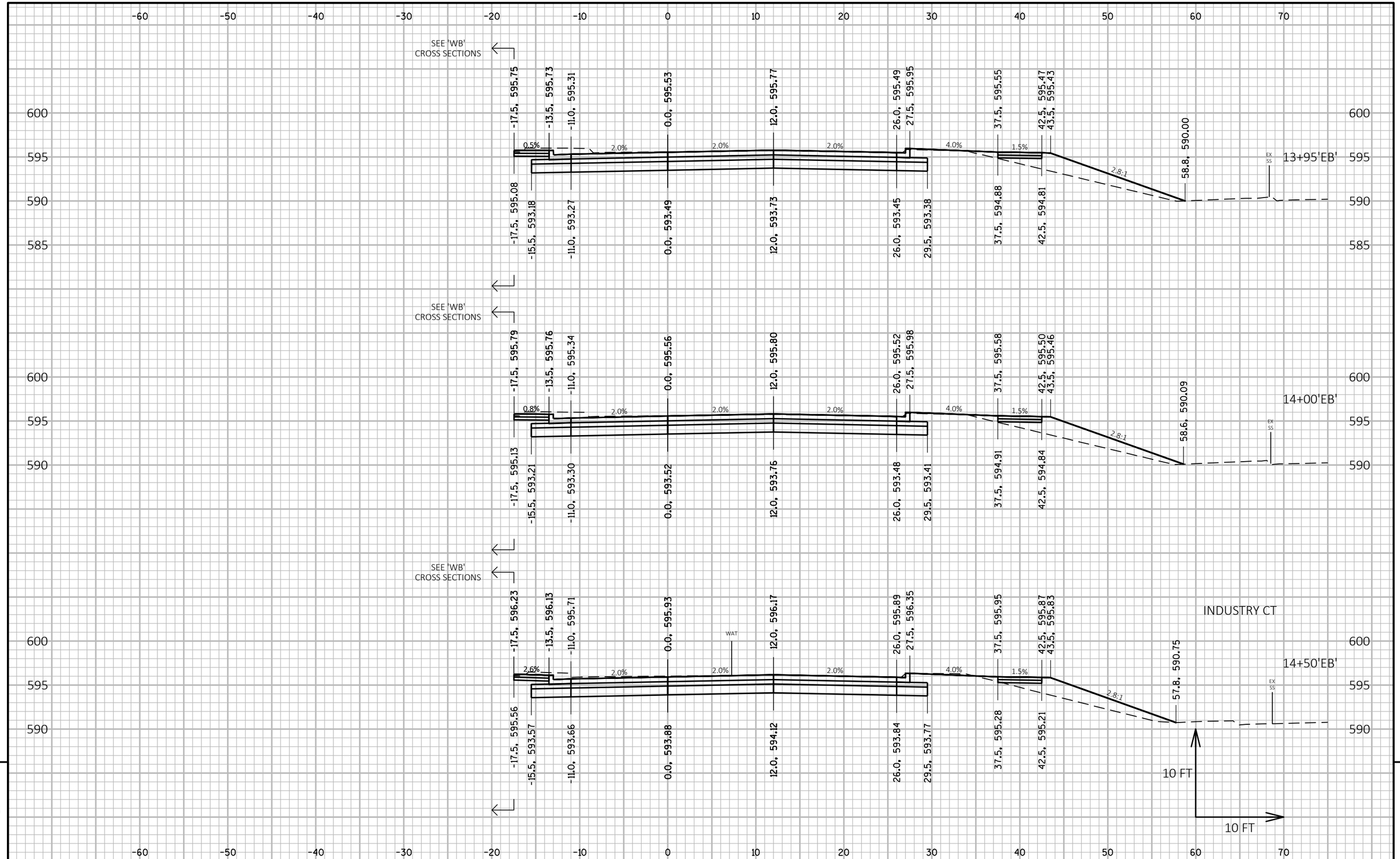
PROJECT NO: 9266-11-03	HWY: CTH HH	COUNTY: BROWN	CROSS SECTIONS: CTH HH - EASTBOUND - STAGE 2	SHEET 226	E

FILE NAME : C:\USGBR1FP001\ATG\60543140\900_CAD_GIS\910_CAD\92661102\SHEETSPLAN\090201_XS_S2.DWG
LAYOUT NAME - EB14

PLOT DATE : 7/15/2019 2:56 PM PLOT BY : CZECH, ANDREW PLOT NAME :

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

WISDOT/CADDS SHEET 49



9

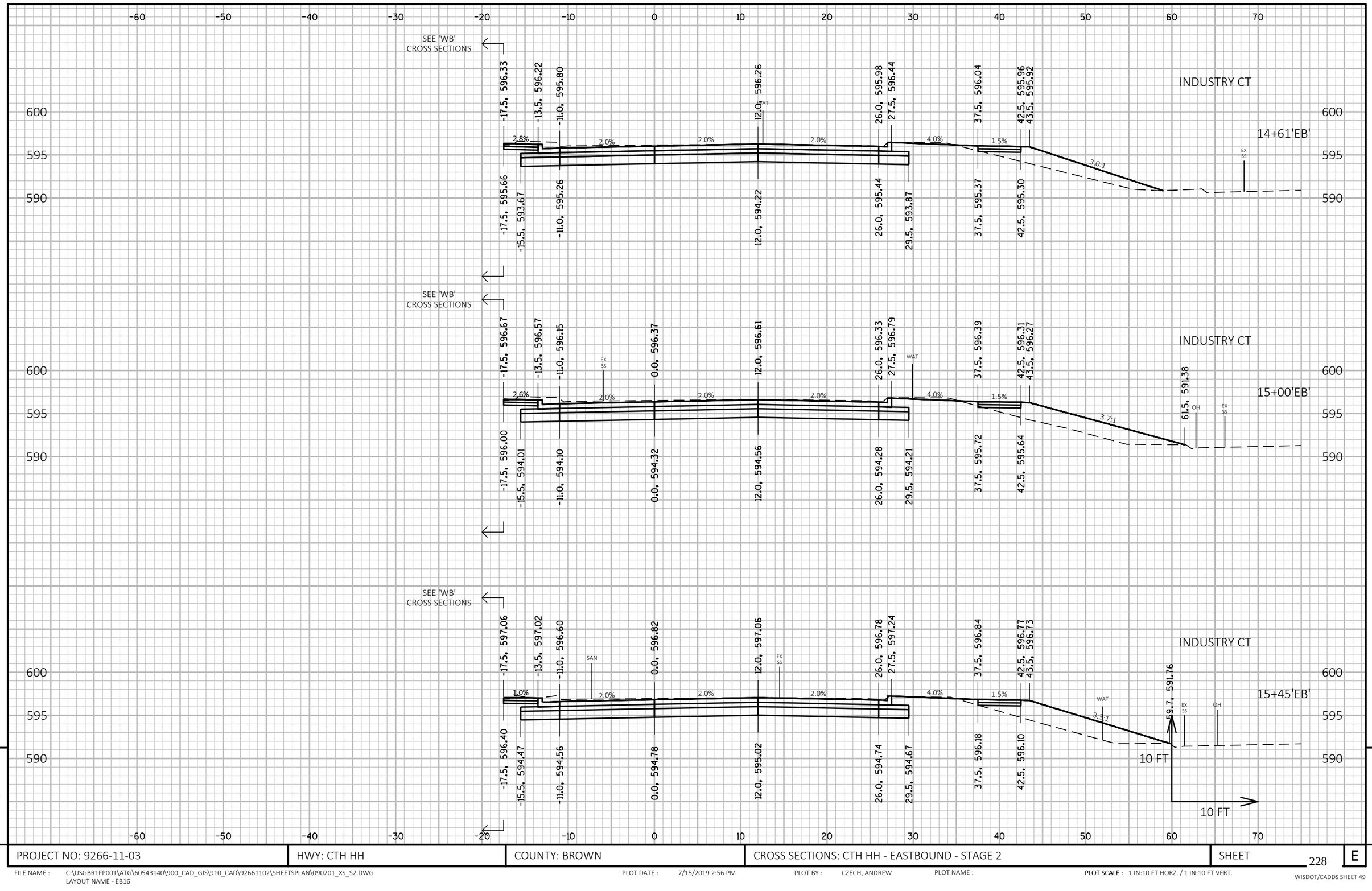
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PROJECT NO: 9266-11-03	HWY: CTH HH	COUNTY: BROWN	CROSS SECTIONS: CTH HH - EASTBOUND - STAGE 2	SHEET 227	E

FILE NAME : C:\USGBR1FP001\ATG\60543140\900_CAD_GIS\910_CAD\92661102\SHEETSPLAN\090201_XS_S2.DWG
LAYOUT NAME - EB15

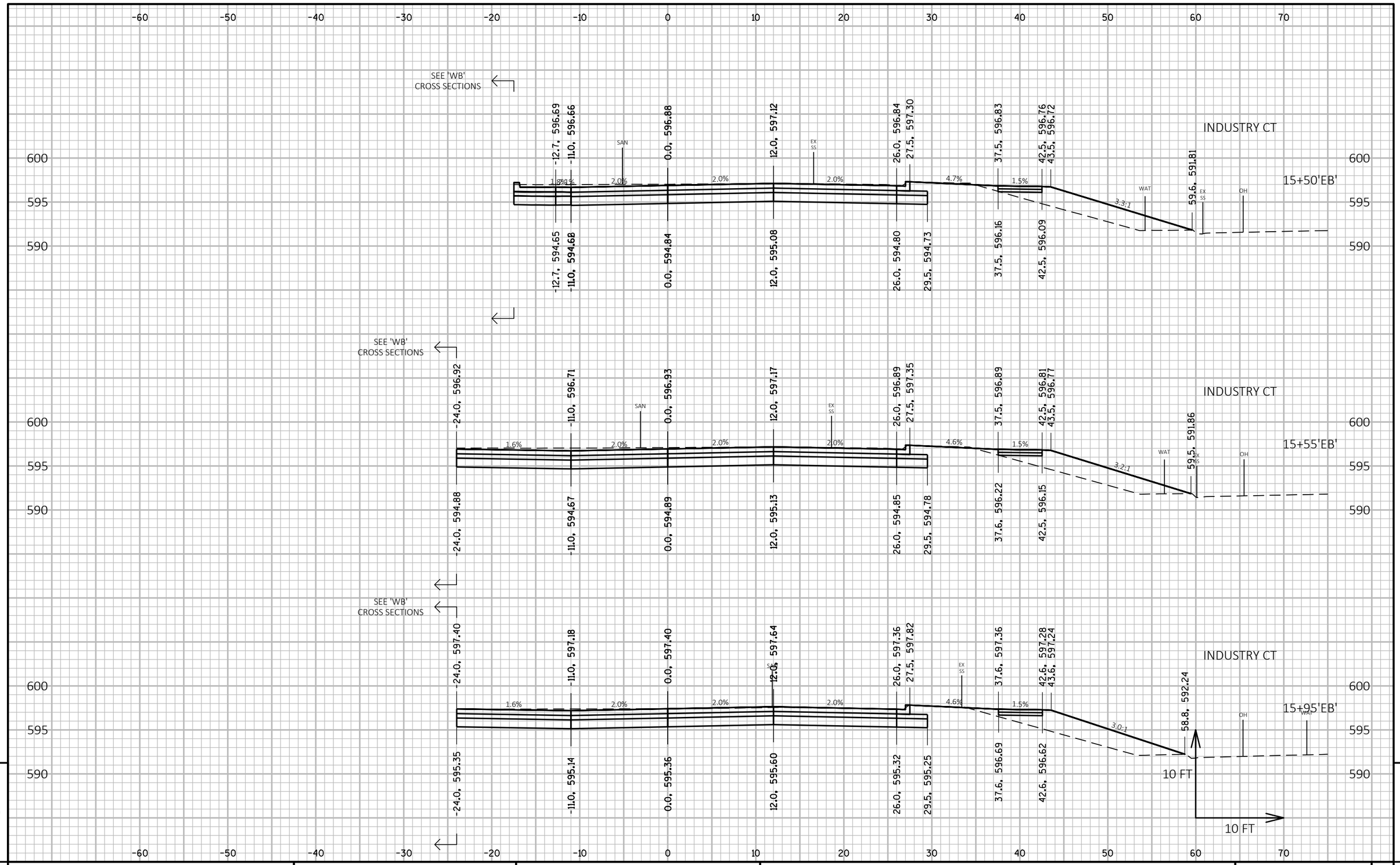
PLOT DATE : 7/15/2019 2:56 PM PLOT BY : CZECH, ANDREW PLOT NAME : PLOT SCALE : 1 IN:10 FT HORZ. / 1 IN:10 FT VERT.

WISDOT/CADDS SHEET 49



PROJECT NO: 9266-11-03	HWY: CTH HH	COUNTY: BROWN	CROSS SECTIONS: CTH HH - EASTBOUND - STAGE 2	SHEET 228	E

FILE NAME : C:\USGBR1FP001\ATG\60543140\900_CAD_GIS\910_CAD\92661102\SHEETSPLAN\090201_XS_S2.DWG
LAYOUT NAME - EB16
PLOT DATE : 7/15/2019 2:56 PM
PLOT BY : CZECH, ANDREW
PLOT NAME :
PLOT SCALE : 1 IN:10 FT HORZ. / 1 IN:10 FT VERT.
WISDOT/CADDS SHEET 49



9

9

PROJECT NO: 9266-11-03	HWY: CTH HH	COUNTY: BROWN	CROSS SECTIONS: CTH HH - EASTBOUND - STAGE 2	SHEET 229	E

FILE NAME : C:\USGBR1FP001\ATG\60543140\900_CAD_GIS\910_CAD\92661102\SHEETSPLAN\090201_XS_S2.DWG
LAYOUT NAME - EB17

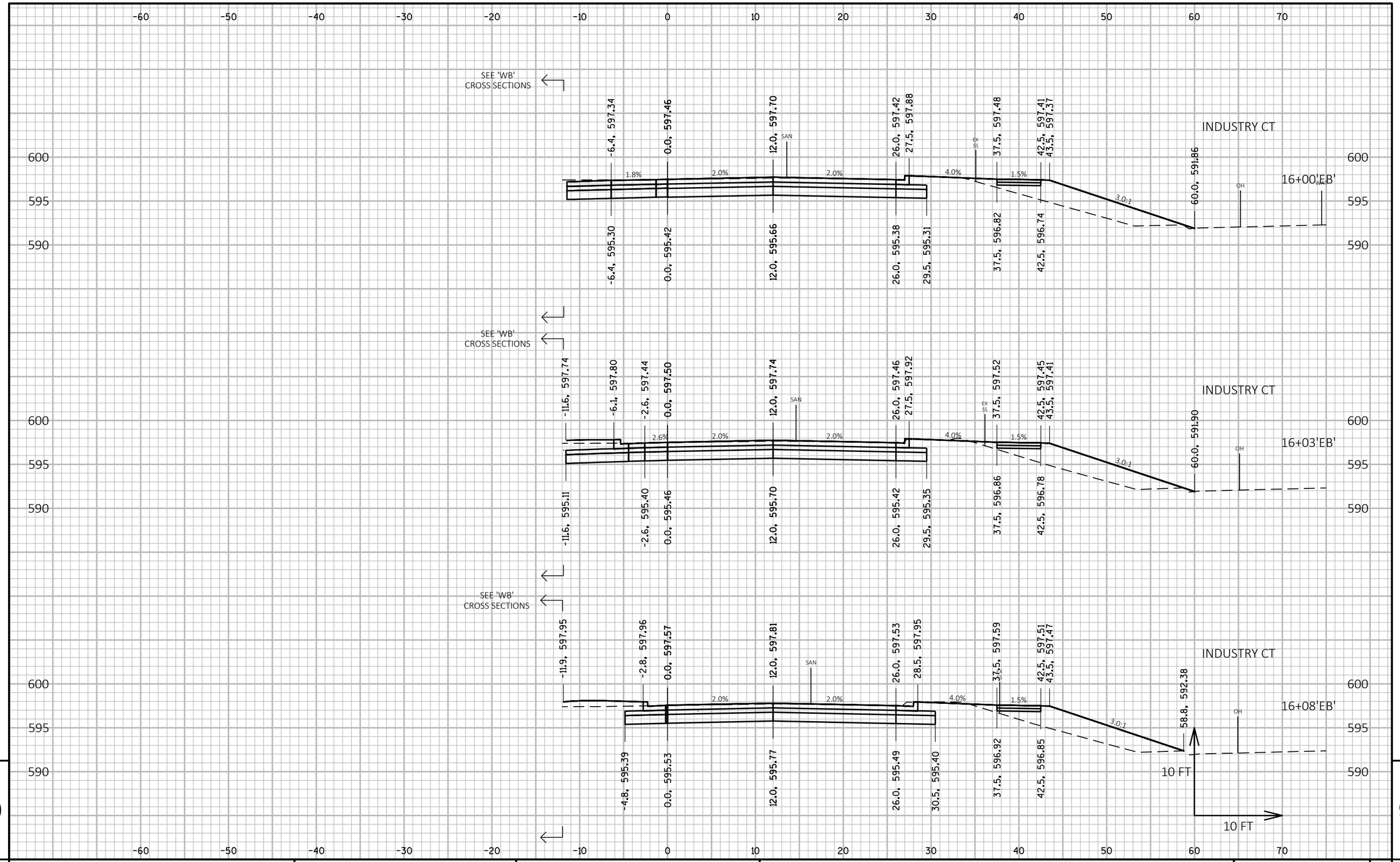
PLOT DATE : 7/15/2019 2:56 PM

PLOT BY : CZECH, ANDREW

PLOT NAME :

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

WISDOT/CADDS SHEET 49



9

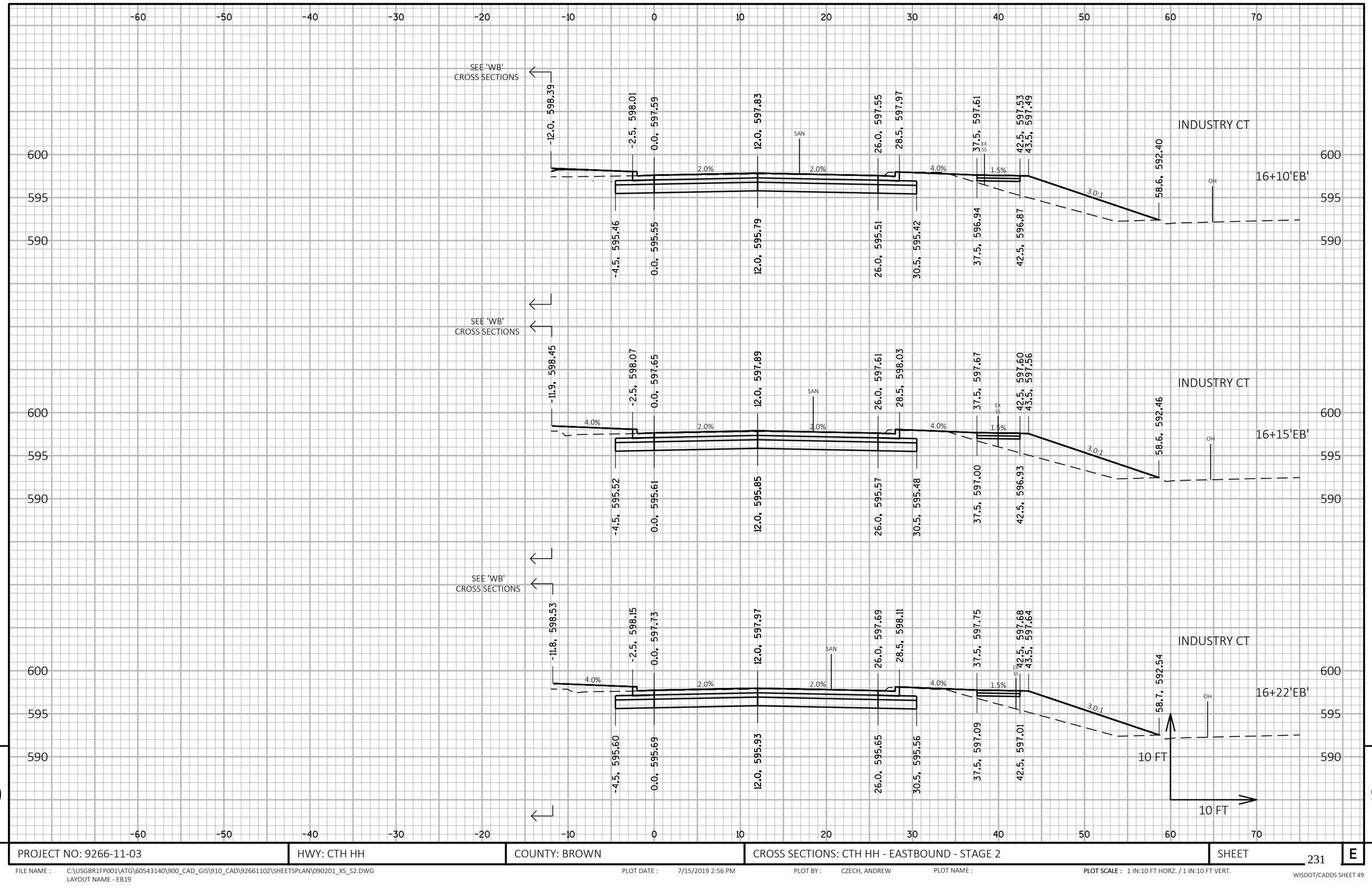
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PROJECT NO: 9266-11-03	HWY: CTH HH	COUNTY: BROWN	CROSS SECTIONS: CTH HH - EASTBOUND - STAGE 2	SHEET 230	E

FILE NAME : C:\USGBR1FP001\ATG\60543140\900_CAD_GIS\910_CAD\92661102\SHEETSPLAN\090201_XS_S2.DWG
LAYOUT NAME - EB18

PLOT DATE : 7/15/2019 2:56 PM PLOT BY : CZECH, ANDREW PLOT NAME : **PLOT SCALE :** 1 IN:10 FT HORZ. / 1 IN:10 FT VERT.

WISDOT/CADDS SHEET 49

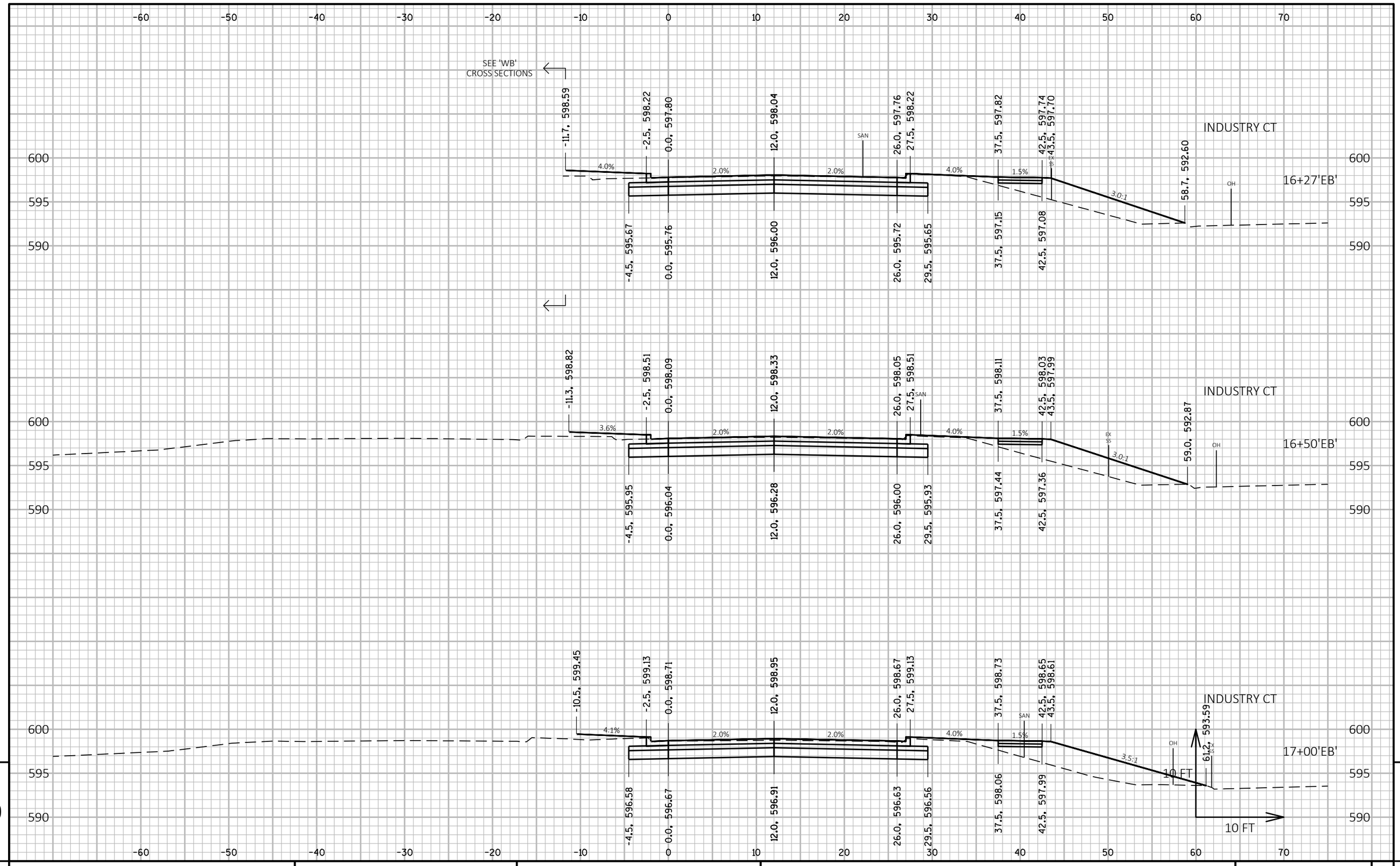


PROJECT NO: 9266-11-03	HWY: CTH HH	COUNTY: BROWN	CROSS SECTIONS: CTH HH - EASTBOUND - STAGE 2	SHEET 231	E

FILE NAME : C:\USGBR1FP001\ATG\60543140\900_CAD_GIS\910_CAD\92661102\SHEETSPLAN\090201_XS_S2.DWG
LAYOUT NAME - EB19

PLOT DATE : 7/15/2019 2:56 PM PLOT BY : CZECH, ANDREW PLOT NAME : **PLOT SCALE :** 1 IN:10 FT HORZ. / 1 IN:10 FT VERT.

WISDOT/CADDS SHEET 49



9

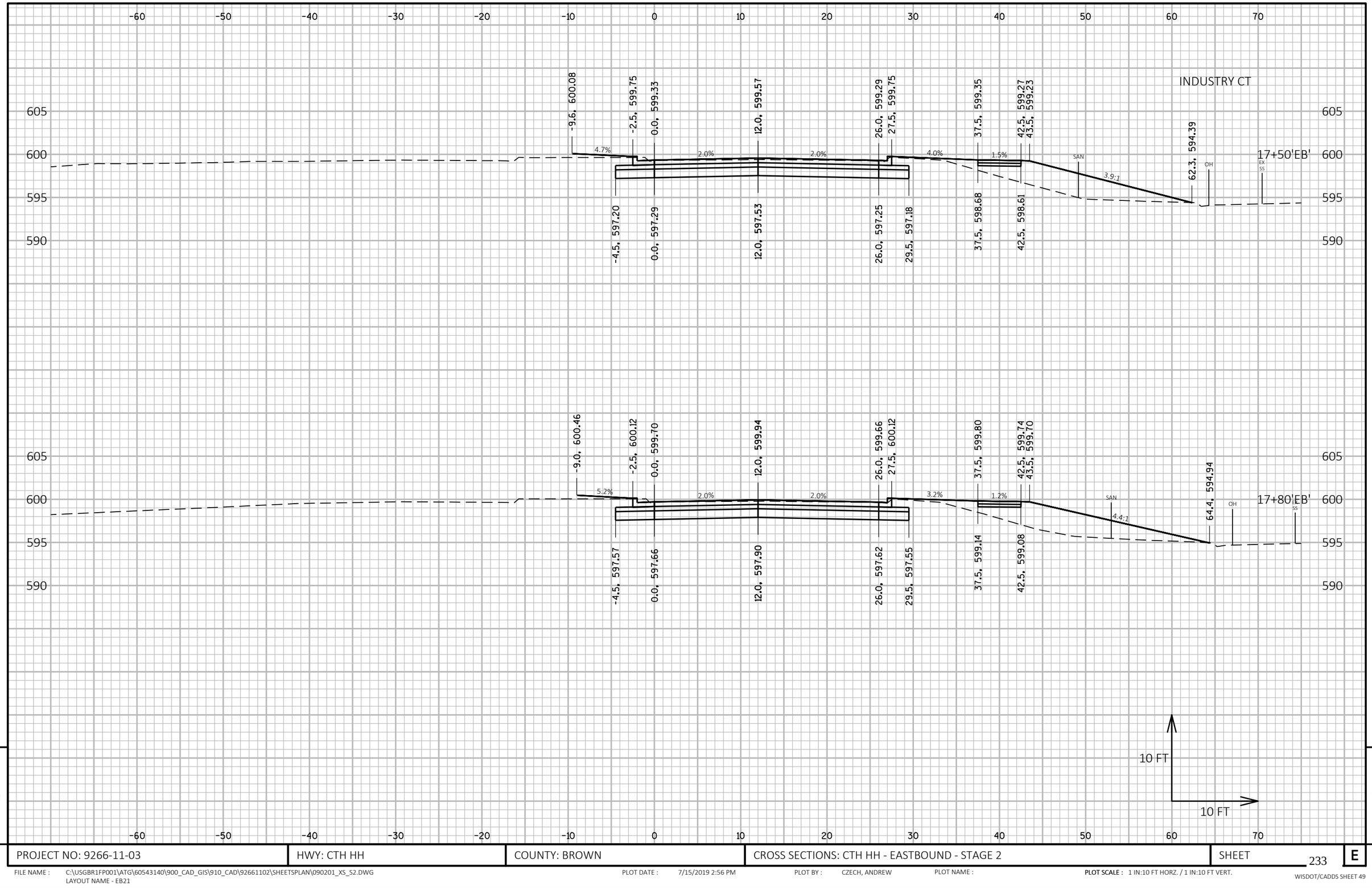
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PROJECT NO: 9266-11-03	HWY: CTH HH	COUNTY: BROWN	CROSS SECTIONS: CTH HH - EASTBOUND - STAGE 2	SHEET 232	E

FILE NAME : C:\USGBR1FP001\ATG\60543140\900_CAD_GIS\910_CAD\92661102\SHEETSPLAN\090201_XS_S2.DWG
LAYOUT NAME - EB20

PLOT DATE : 7/15/2019 2:56 PM PLOT BY : CZECH, ANDREW PLOT NAME : PLOT SCALE : 1 IN:10 FT HORZ. / 1 IN:10 FT VERT.

WISDOT/CADDS SHEET 49

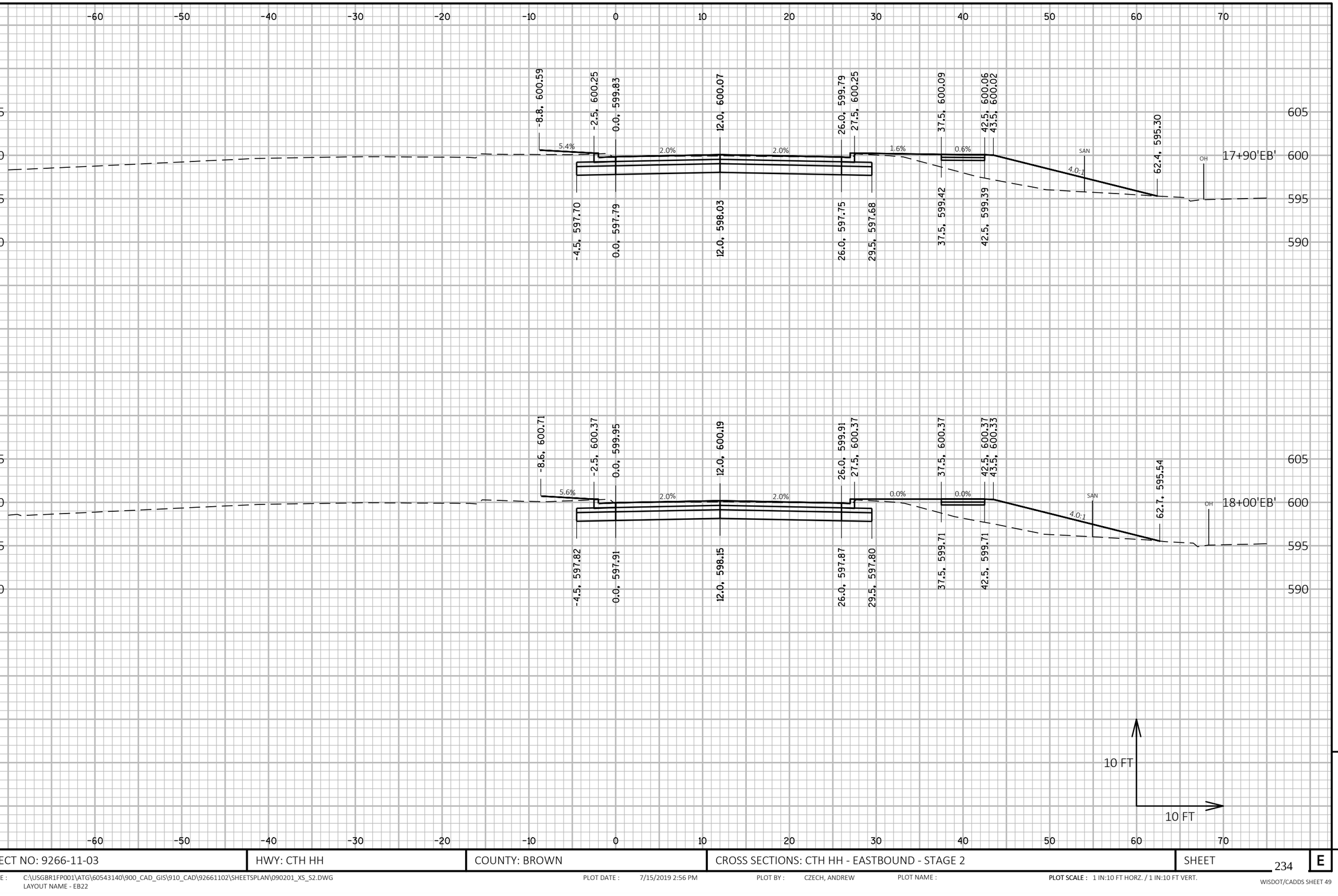


PROJECT NO: 9266-11-03	HWY: CTH HH	COUNTY: BROWN	CROSS SECTIONS: CTH HH - EASTBOUND - STAGE 2	SHEET 233	E

FILE NAME : C:\USGBR1FP001\ATG\60543140\900_CAD_GIS\910_CAD\92661102\SHEETSPLAN\090201_XS_S2.DWG
LAYOUT NAME - EB21

PLOT DATE : 7/15/2019 2:56 PM PLOT BY : CZECH, ANDREW PLOT NAME : PLOT SCALE : 1 IN:10 FT HORZ. / 1 IN:10 FT VERT.

WISDOT/CADDS SHEET 49



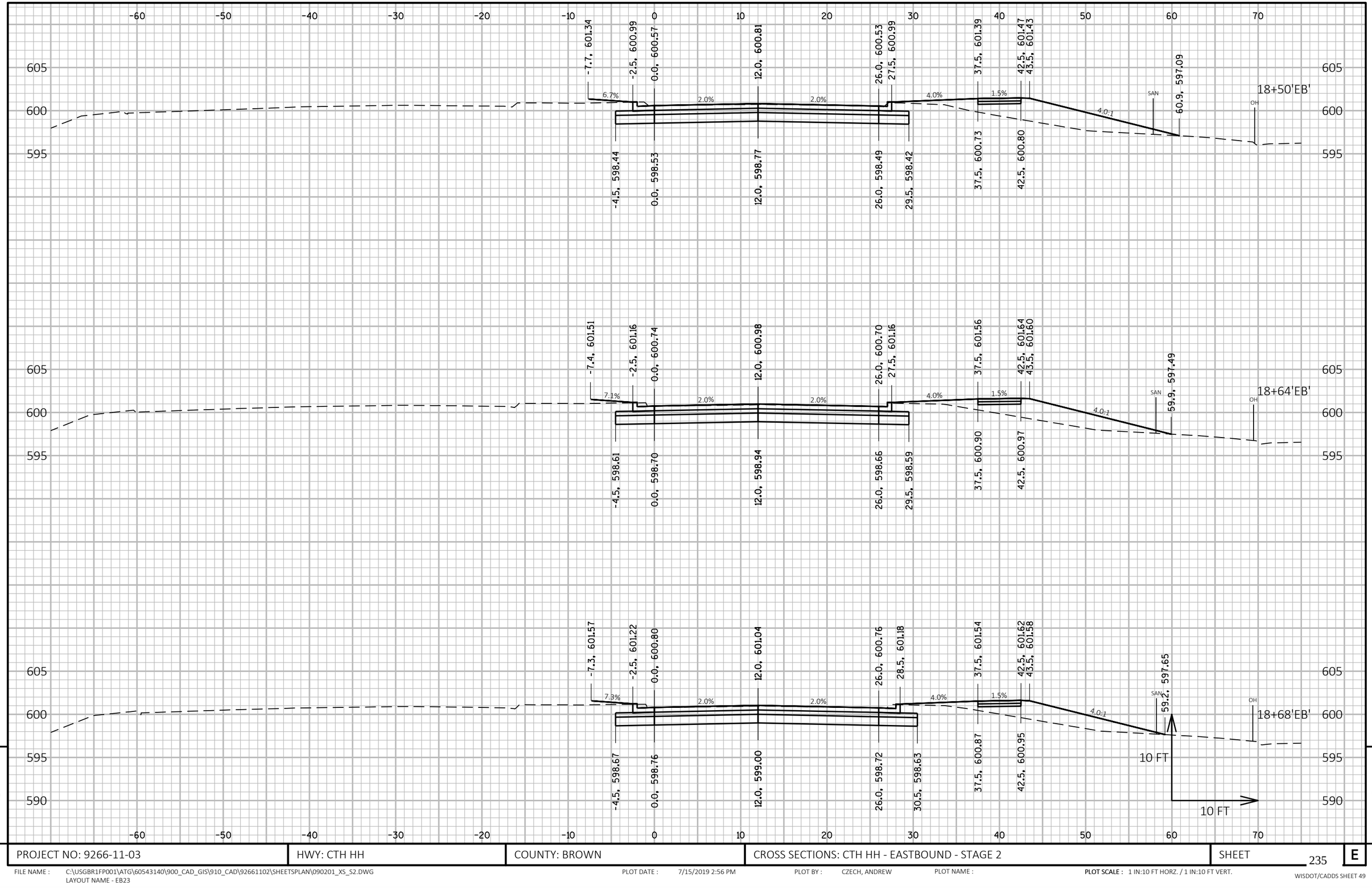
PROJECT NO: 9266-11-03	HWY: CTH HH	COUNTY: BROWN	CROSS SECTIONS: CTH HH - EASTBOUND - STAGE 2	SHEET 234	E

FILE NAME : C:\USGBR1FP001\ATG\60543140\900_CAD_GIS\910_CAD\92661102\SHEETSPLAN\090201_XS_S2.DWG
LAYOUT NAME - EB22

PLOT DATE : 7/15/2019 2:56 PM PLOT BY : CZECH, ANDREW PLOT NAME :

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

WISDOT/CADDS SHEET 49



9

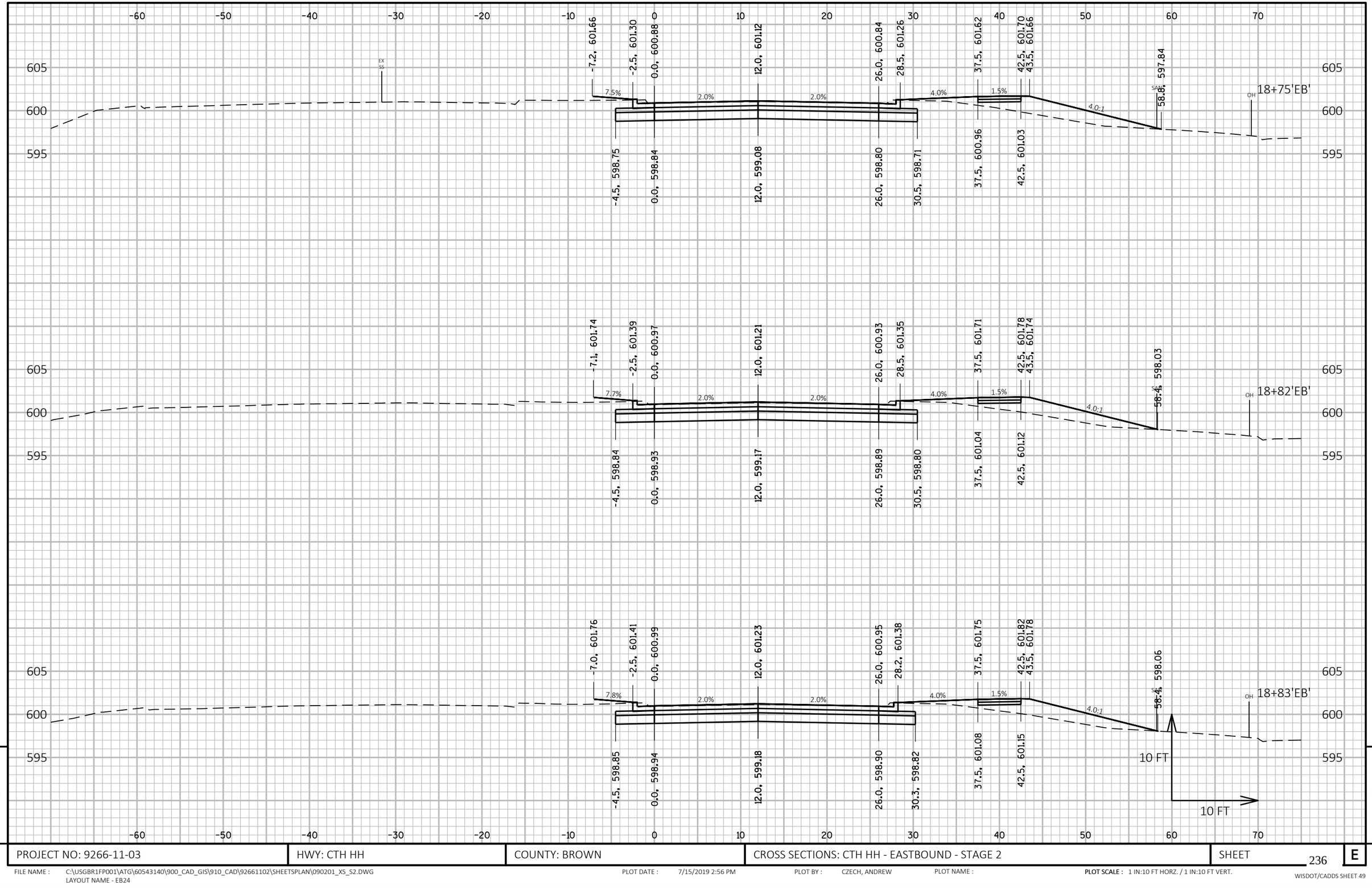
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PROJECT NO: 9266-11-03	HWY: CTH HH	COUNTY: BROWN	CROSS SECTIONS: CTH HH - EASTBOUND - STAGE 2	SHEET 235	E

FILE NAME : C:\USGBR1FP001\ATG\60543140\900_CAD_GIS\910_CAD\92661102\SHEETSPLAN\090201_XS_S2.DWG
LAYOUT NAME - EB23

PLOT DATE : 7/15/2019 2:56 PM PLOT BY : CZECH, ANDREW PLOT NAME : PLOT SCALE : 1 IN:10 FT HORZ. / 1 IN:10 FT VERT.

WISDOT/CADDS SHEET 49



9

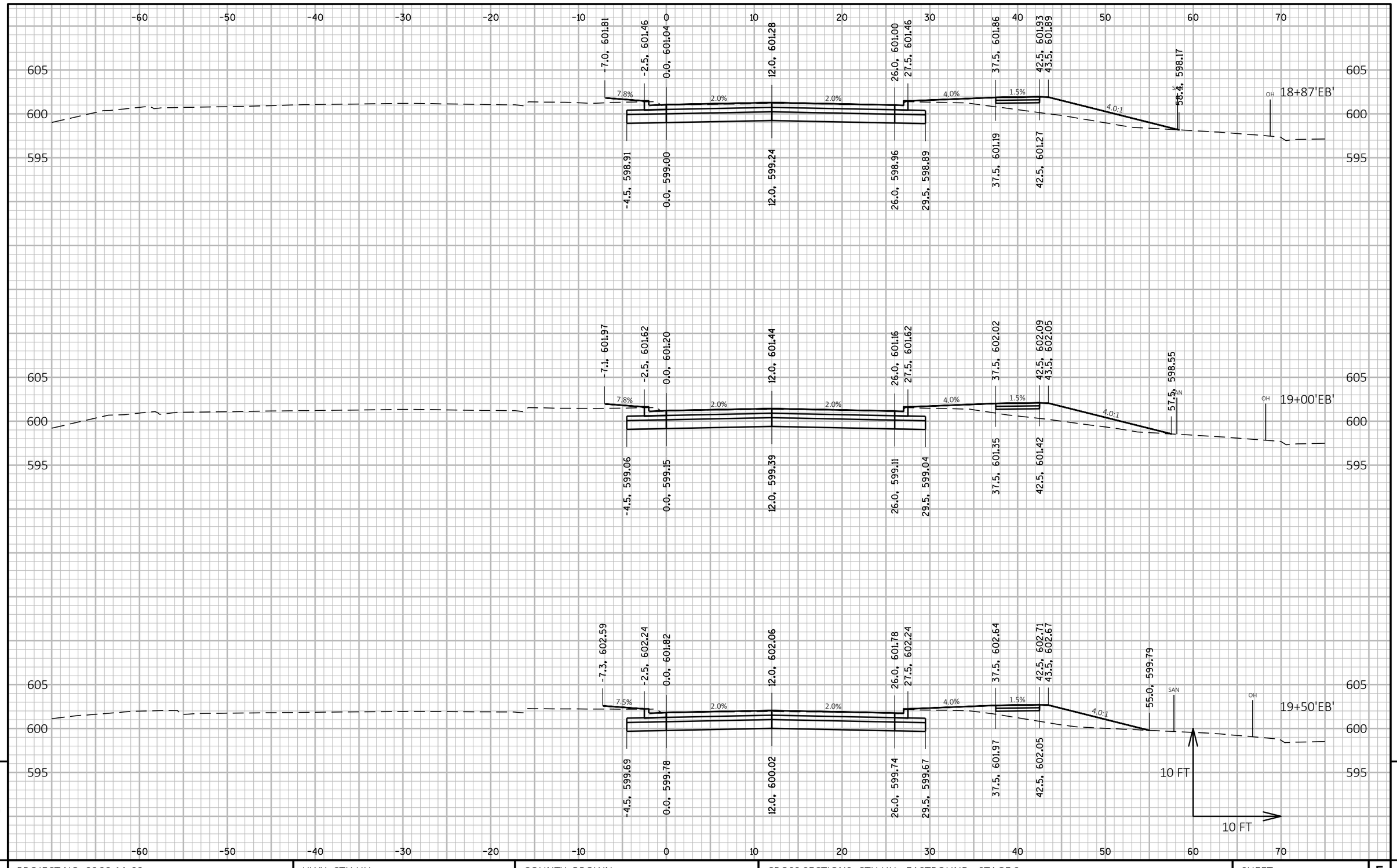
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PROJECT NO: 9266-11-03	HWY: CTH HH	COUNTY: BROWN	CROSS SECTIONS: CTH HH - EASTBOUND - STAGE 2	SHEET 236	E

FILE NAME : C:\USGBR1FP001\ATG\60543140\900_CAD_GIS\910_CAD\92661102\SHEETSPLAN\090201_XS_S2.DWG
LAYOUT NAME - EB24

PLOT DATE : 7/15/2019 2:56 PM PLOT BY : CZECH, ANDREW PLOT NAME : PLOT SCALE : 1 IN:10 FT HORZ. / 1 IN:10 FT VERT.

WISDOT/CADDS SHEET 49



9

9

PROJECT NO: 9266-11-03	HWY: CTH HH	COUNTY: BROWN	CROSS SECTIONS: CTH HH - EASTBOUND - STAGE 2	SHEET 237	E

FILE NAME : C:\USGBR1FP001\ATG\60543140\900_CAD_GIS\910_CAD\92661102\SHEETSPLAN\090201_XS_S2.DWG
LAYOUT NAME - EB25

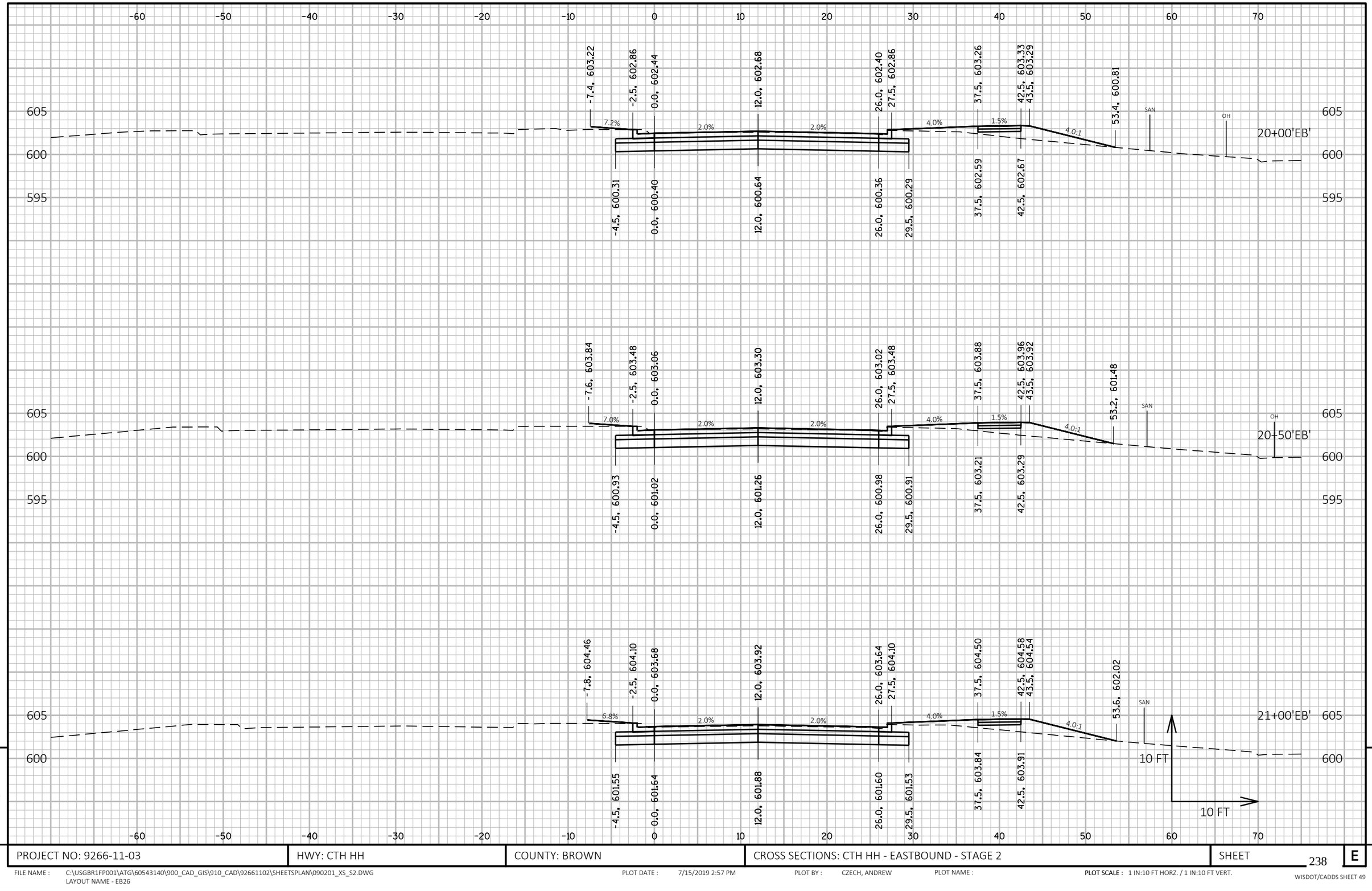
PLOT DATE : 7/15/2019 2:56 PM

PLOT BY : CZECH, ANDREW

PLOT NAME :

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

WISDOT/CADDS SHEET 49



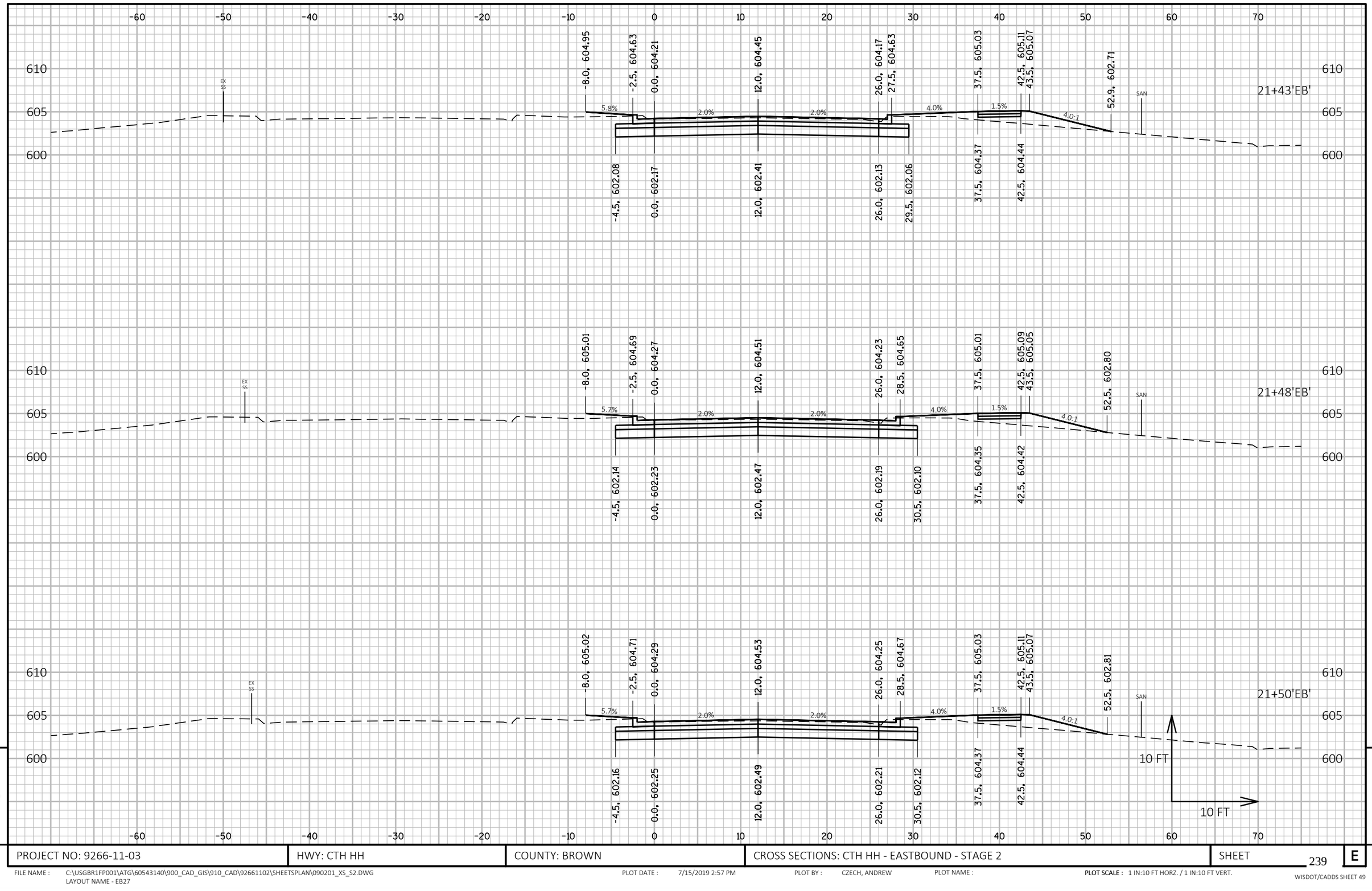
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PROJECT NO: 9266-11-03	HWY: CTH HH	COUNTY: BROWN	CROSS SECTIONS: CTH HH - EASTBOUND - STAGE 2	SHEET 238	E

FILE NAME : C:\USGBR1FP001\ATG\60543140\900_CAD_GIS\910_CAD\92661102\SHEETSPLAN\090201_XS_S2.DWG
LAYOUT NAME - EB26

PLOT DATE : 7/15/2019 2:57 PM PLOT BY : CZECH, ANDREW PLOT NAME : **PLOT SCALE :** 1 IN:10 FT HORZ. / 1 IN:10 FT VERT.

WISDOT/CADDS SHEET 49



9

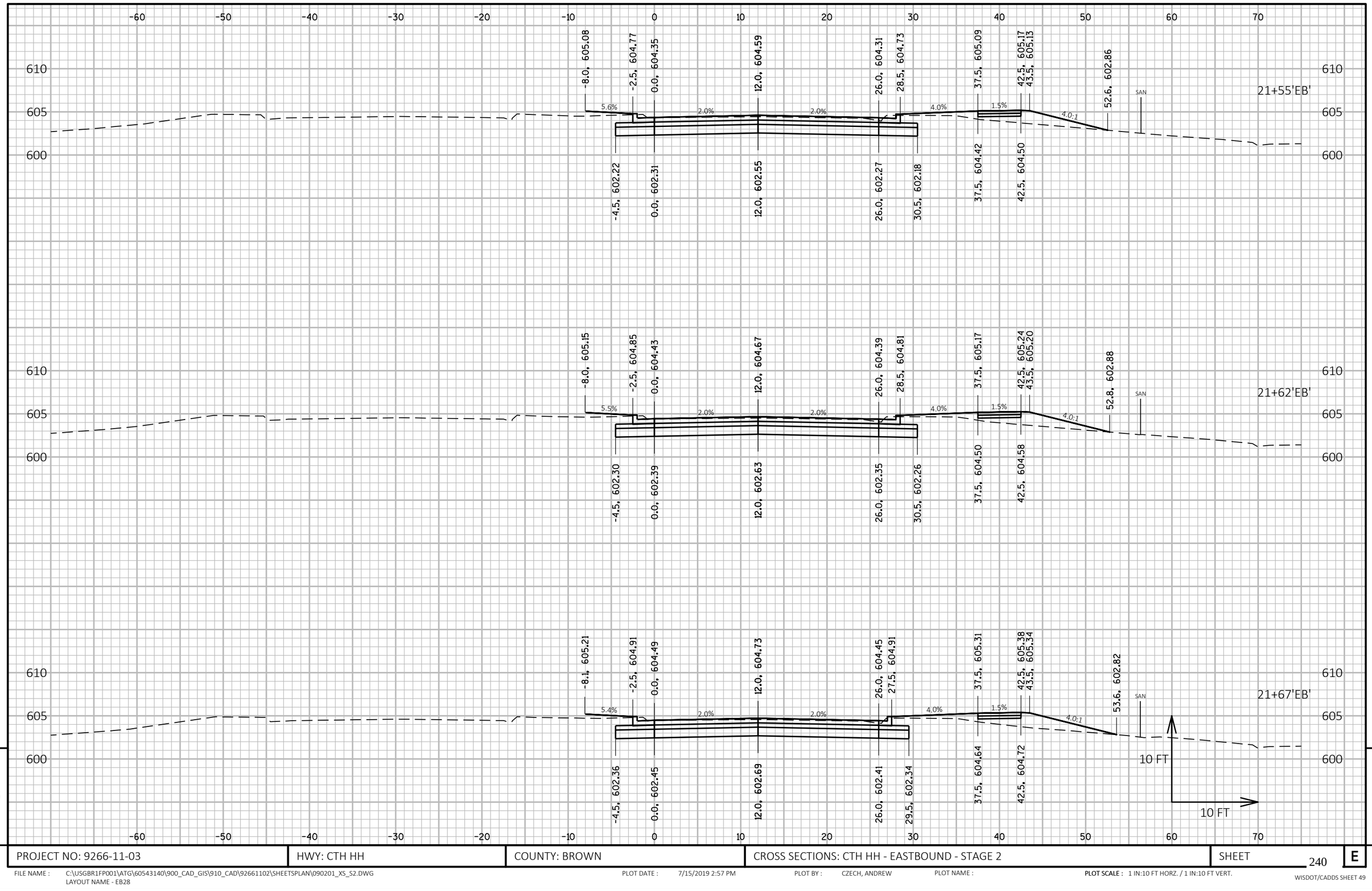
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PROJECT NO: 9266-11-03	HWY: CTH HH	COUNTY: BROWN	CROSS SECTIONS: CTH HH - EASTBOUND - STAGE 2	SHEET 239	E

FILE NAME : C:\USGBR1FP001\ATG\60543140\900_CAD_GIS\910_CAD\92661102\SHEETSPLAN\090201_XS_S2.DWG
LAYOUT NAME - EB27

PLOT DATE : 7/15/2019 2:57 PM PLOT BY : CZECH, ANDREW PLOT NAME : **PLOT SCALE :** 1 IN:10 FT HORZ. / 1 IN:10 FT VERT.

WISDOT/CADDS SHEET 49



9

9

PROJECT NO: 9266-11-03	HWY: CTH HH	COUNTY: BROWN	CROSS SECTIONS: CTH HH - EASTBOUND - STAGE 2	SHEET 240	E

FILE NAME : C:\USGBR1FP001\ATG\60543140\900_CAD_GIS\910_CAD\92661102\SHEETSPLAN\090201_XS_S2.DWG
LAYOUT NAME - EB28

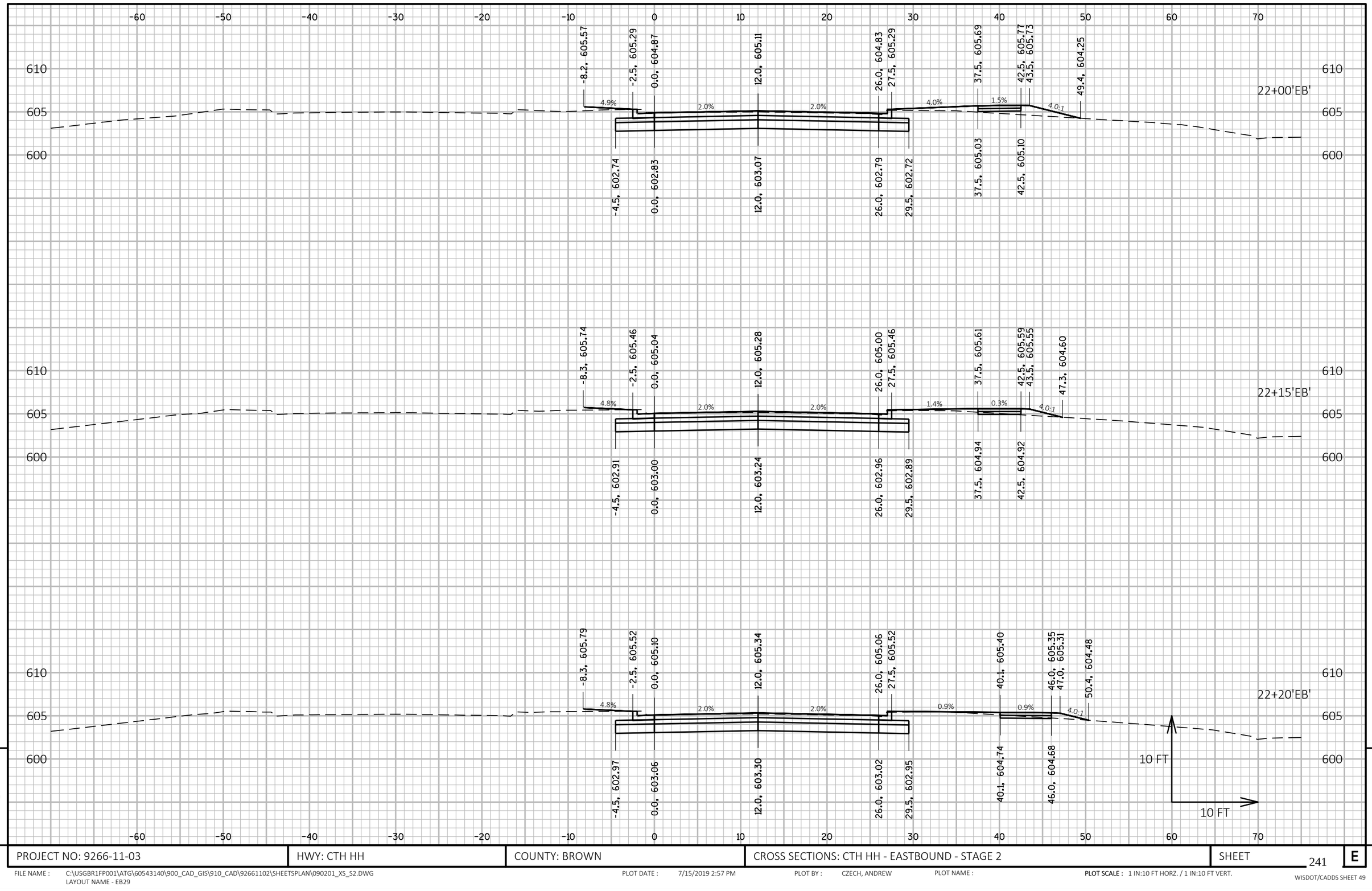
PLOT DATE : 7/15/2019 2:57 PM

PLOT BY : CZECH, ANDREW

PLOT NAME :

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

WISDOT/CADDS SHEET 49



9

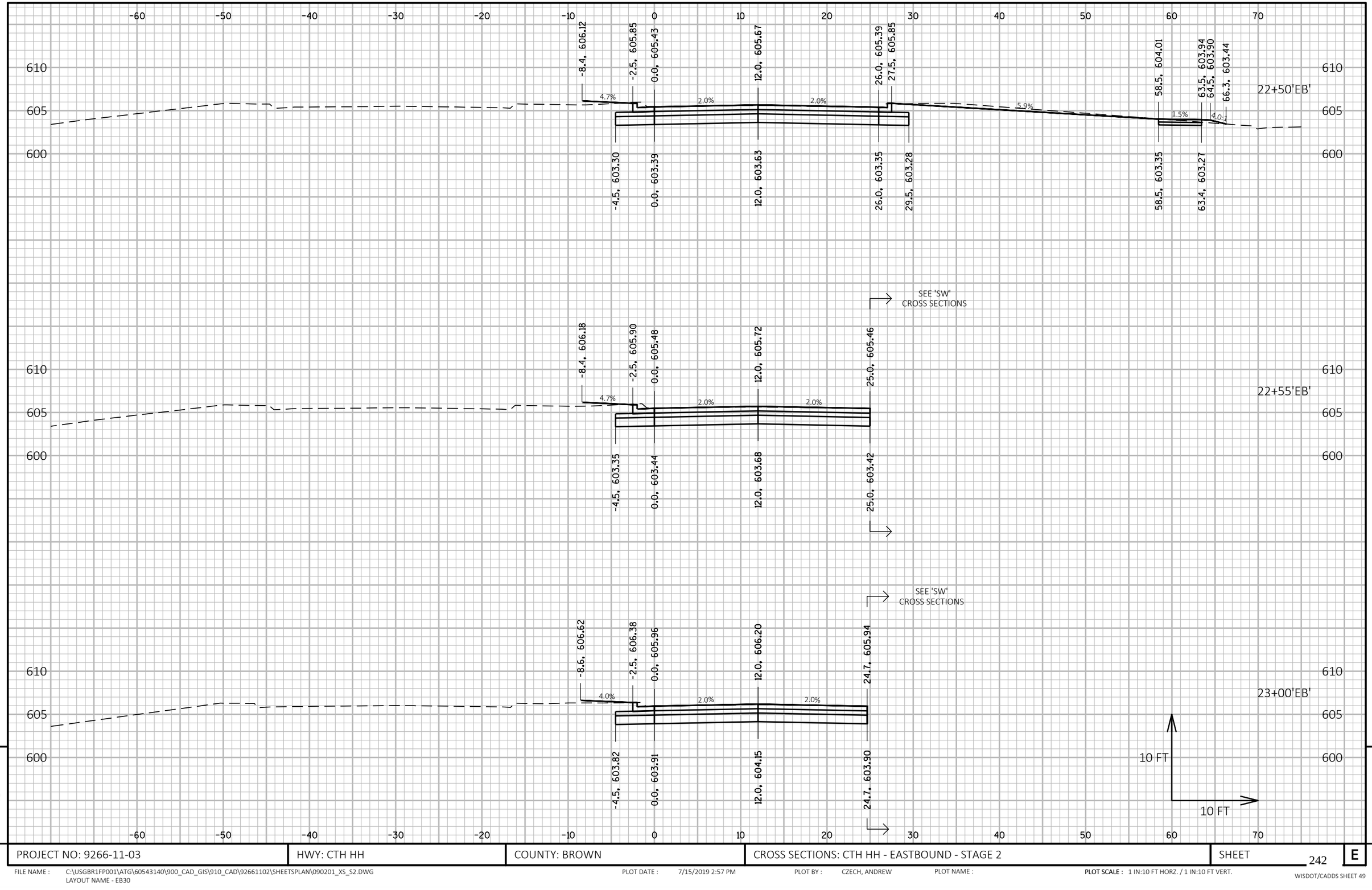
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PROJECT NO: 9266-11-03	HWY: CTH HH	COUNTY: BROWN	CROSS SECTIONS: CTH HH - EASTBOUND - STAGE 2	SHEET 241	E

FILE NAME : C:\USGBR1FP001\ATG\60543140\900_CAD_GIS\910_CAD\92661102\SHEETSPLAN\090201_XS_S2.DWG
LAYOUT NAME - EB29

PLOT DATE : 7/15/2019 2:57 PM PLOT BY : CZECH, ANDREW PLOT NAME : **PLOT SCALE :** 1 IN:10 FT HORZ. / 1 IN:10 FT VERT.

WISDOT/CADDS SHEET 49



9

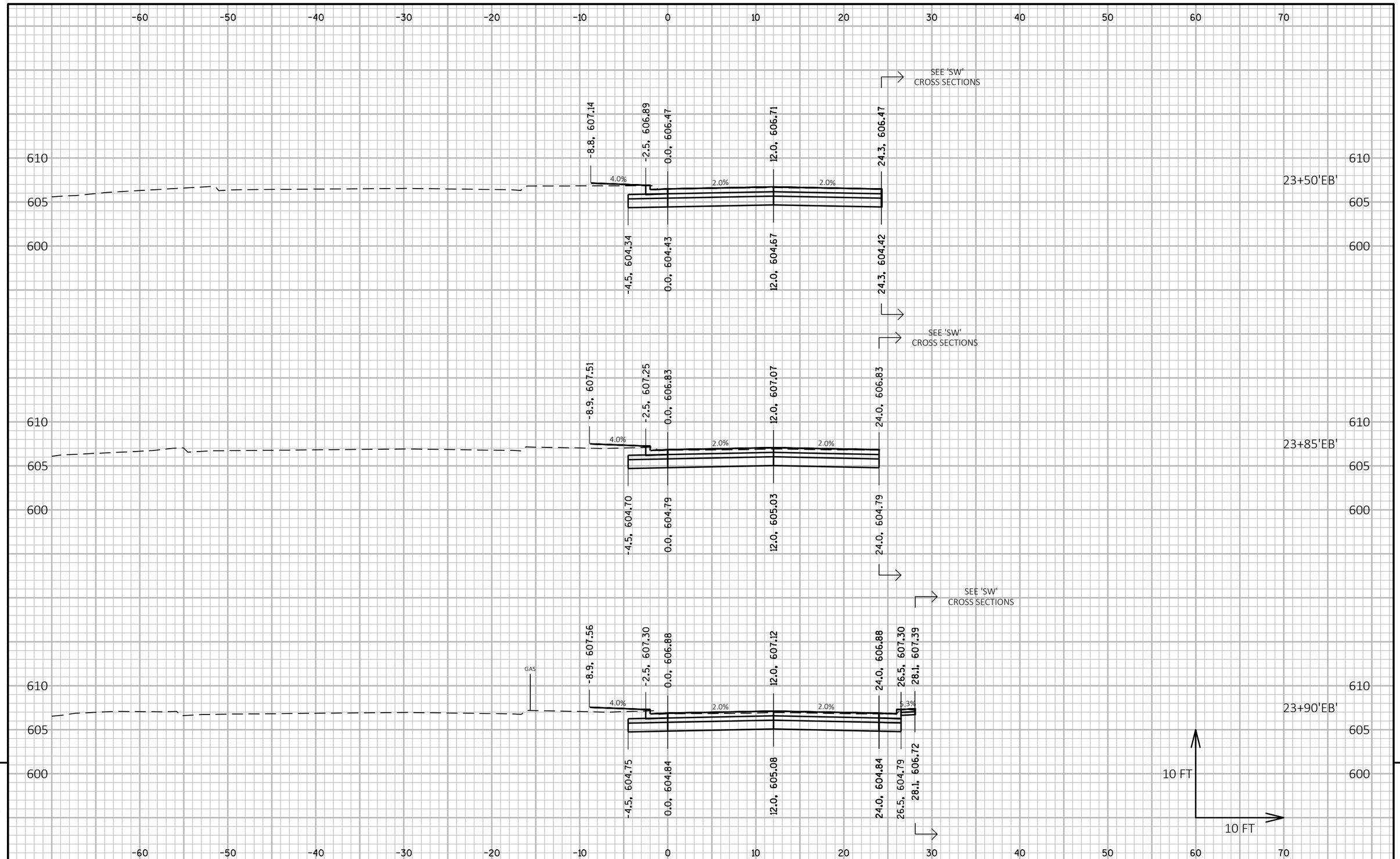
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PROJECT NO: 9266-11-03	HWY: CTH HH	COUNTY: BROWN	CROSS SECTIONS: CTH HH - EASTBOUND - STAGE 2	SHEET 242	E

FILE NAME : C:\USGBR1FP001\ATG\60543140\900_CAD_GIS\910_CAD\92661102\SHEETSPLAN\090201_XS_S2.DWG
LAYOUT NAME - EB30

PLOT DATE : 7/15/2019 2:57 PM PLOT BY : CZECH, ANDREW PLOT NAME : PLOT SCALE : 1 IN:10 FT HORZ. / 1 IN:10 FT VERT.

WISDOT/CADDS SHEET 49



9

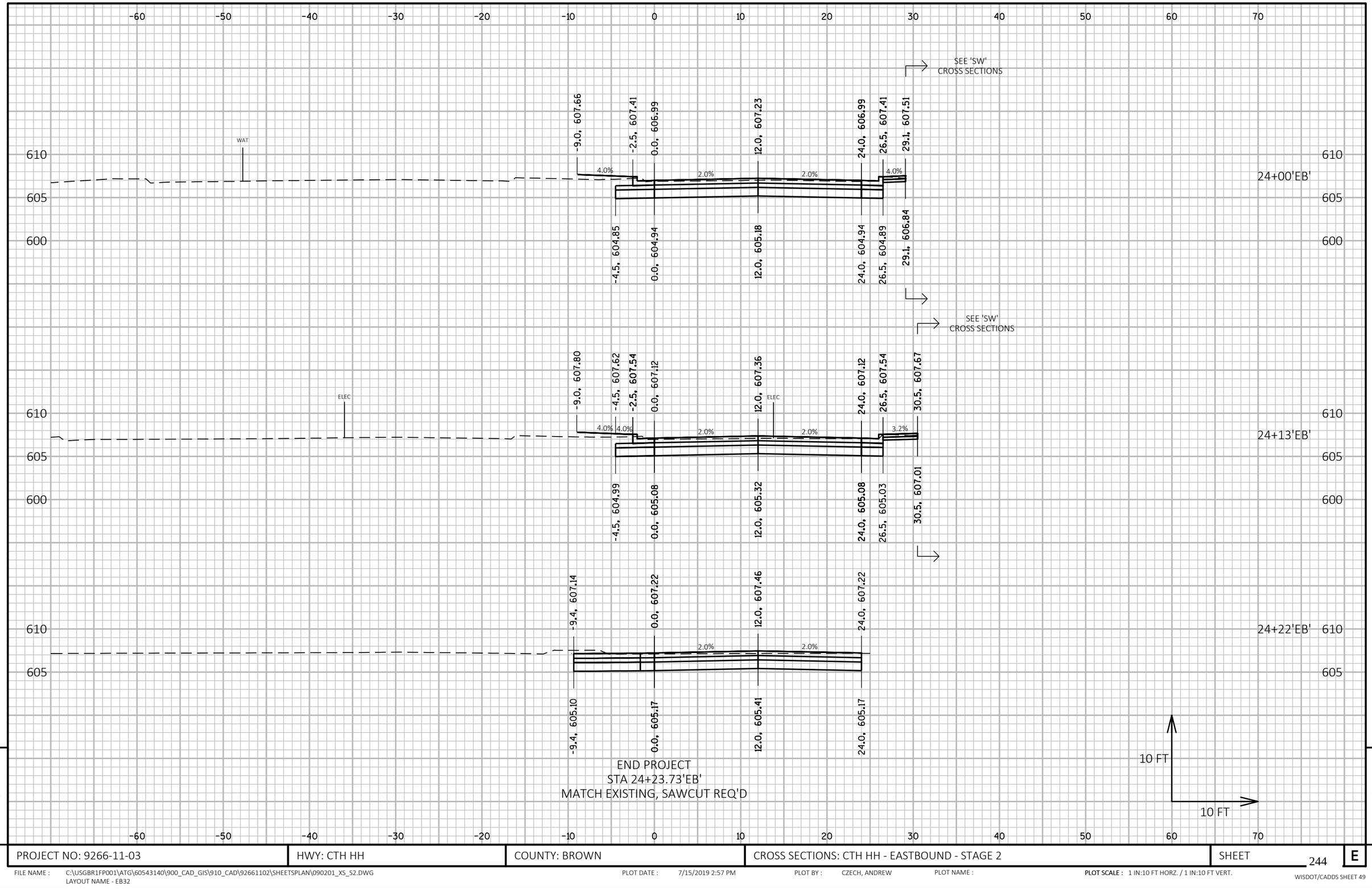
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PROJECT NO: 9266-11-03	HWY: CTH HH	COUNTY: BROWN	CROSS SECTIONS: CTH HH - EASTBOUND - STAGE 2	SHEET 243	E

FILE NAME : C:\USGBR1FP001\ATG\60543140\900_CAD_GIS\910_CAD\92661102\SHEETSPLAN\090201_XS_S2.DWG
LAYOUT NAME - EB31

PLOT DATE : 7/15/2019 2:57 PM PLOT BY : CZECH, ANDREW PLOT NAME : PLOT SCALE : 1 IN:10 FT HORZ. / 1 IN:10 FT VERT.

WISDOT/CADDS SHEET 49



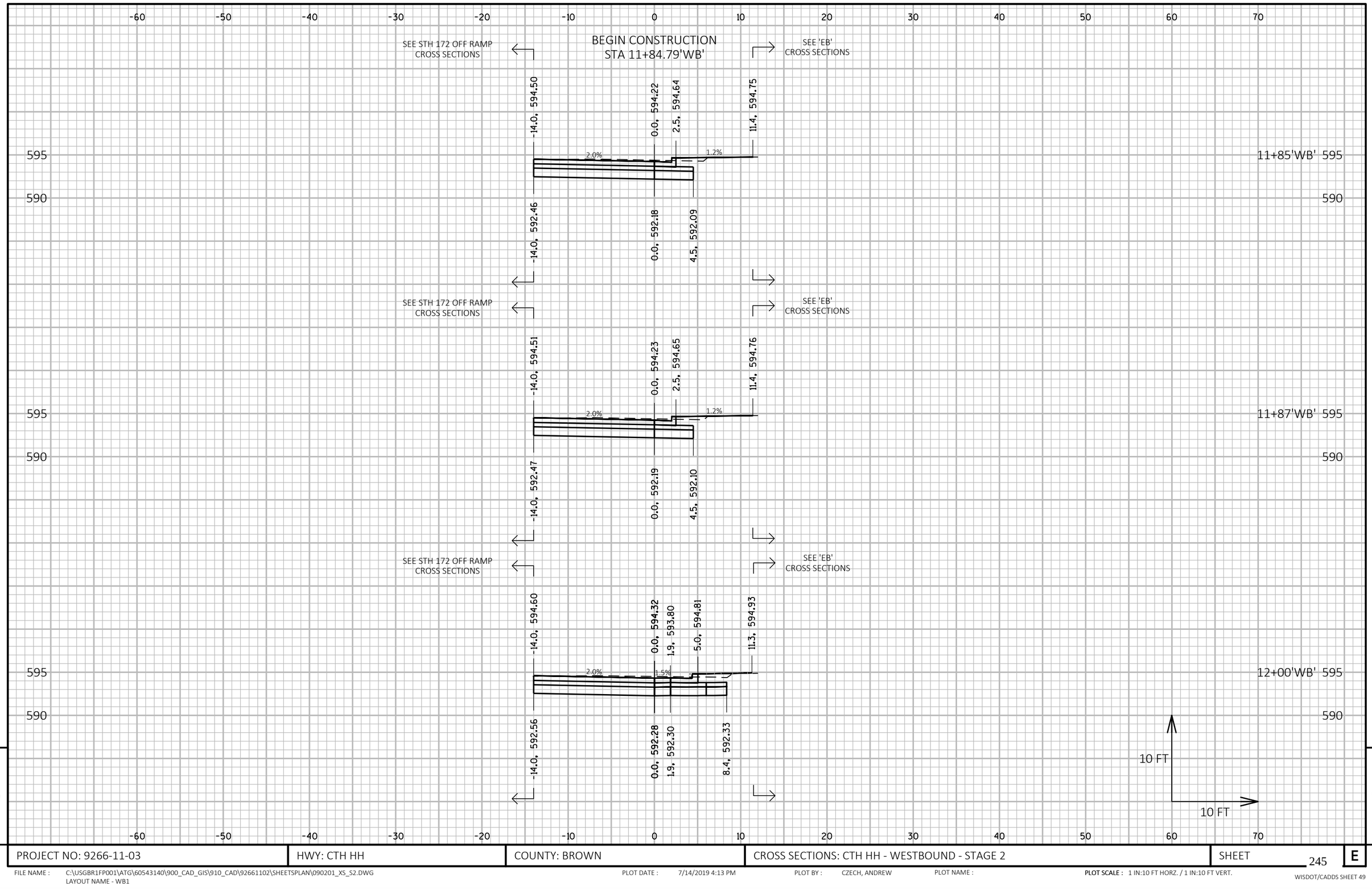
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PROJECT NO: 9266-11-03	HWY: CTH HH	COUNTY: BROWN	CROSS SECTIONS: CTH HH - EASTBOUND - STAGE 2	SHEET 244	E

FILE NAME : C:\USGBR1FP001\ATG\60543140\900_CAD_GIS\910_CAD\92661102\SHEETSPLAN\090201_XS_S2.DWG
LAYOUT NAME - EB32

PLOT DATE : 7/15/2019 2:57 PM PLOT BY : CZECH, ANDREW PLOT NAME : **PLOT SCALE :** 1 IN:10 FT HORZ. / 1 IN:10 FT VERT.

WISDOT/CADDS SHEET 49



PROJECT NO: 9266-11-03	HWY: CTH HH	COUNTY: BROWN	CROSS SECTIONS: CTH HH - WESTBOUND - STAGE 2	SHEET 245	E

FILE NAME : C:\USGBR1FP001\ATG\60543140\900_CAD_GIS\910_CAD\92661102\SHEETSPLAN\090201_XS_S2.DWG
LAYOUT NAME - WB1

PLOT DATE : 7/14/2019 4:13 PM PLOT BY : CZECH, ANDREW PLOT NAME : **PLOT SCALE :** 1 IN:10 FT HORZ. / 1 IN:10 FT VERT.

-60 -50 -40 -30 -20 -10 0 10 20 30 40 50 60 70

SEE STH 172 OFF RAMP CROSS SECTIONS

SEE 'EB' CROSS SECTIONS

-14.0, 594.63 | 0.0, 594.35 | 11.2, 594.55

595 590

2.0%

12+05'WB'

-14.0, 592.59 | 0.0, 592.31 | 11.2, 592.52

SEE STH 172 OFF RAMP CROSS SECTIONS

SEE 'EB' CROSS SECTIONS

-14.0, 594.66 | 0.0, 594.38

595 590

2.0%

12+10'WB'

-14.0, 592.62 | 0.0, 592.34

SEE STH 172 OFF RAMP CROSS SECTIONS

SEE 'EB' CROSS SECTIONS

-14.0, 594.76 | 0.0, 594.48

595 590

2.0%

12+25'WB'

-14.0, 592.72 | 0.0, 592.44

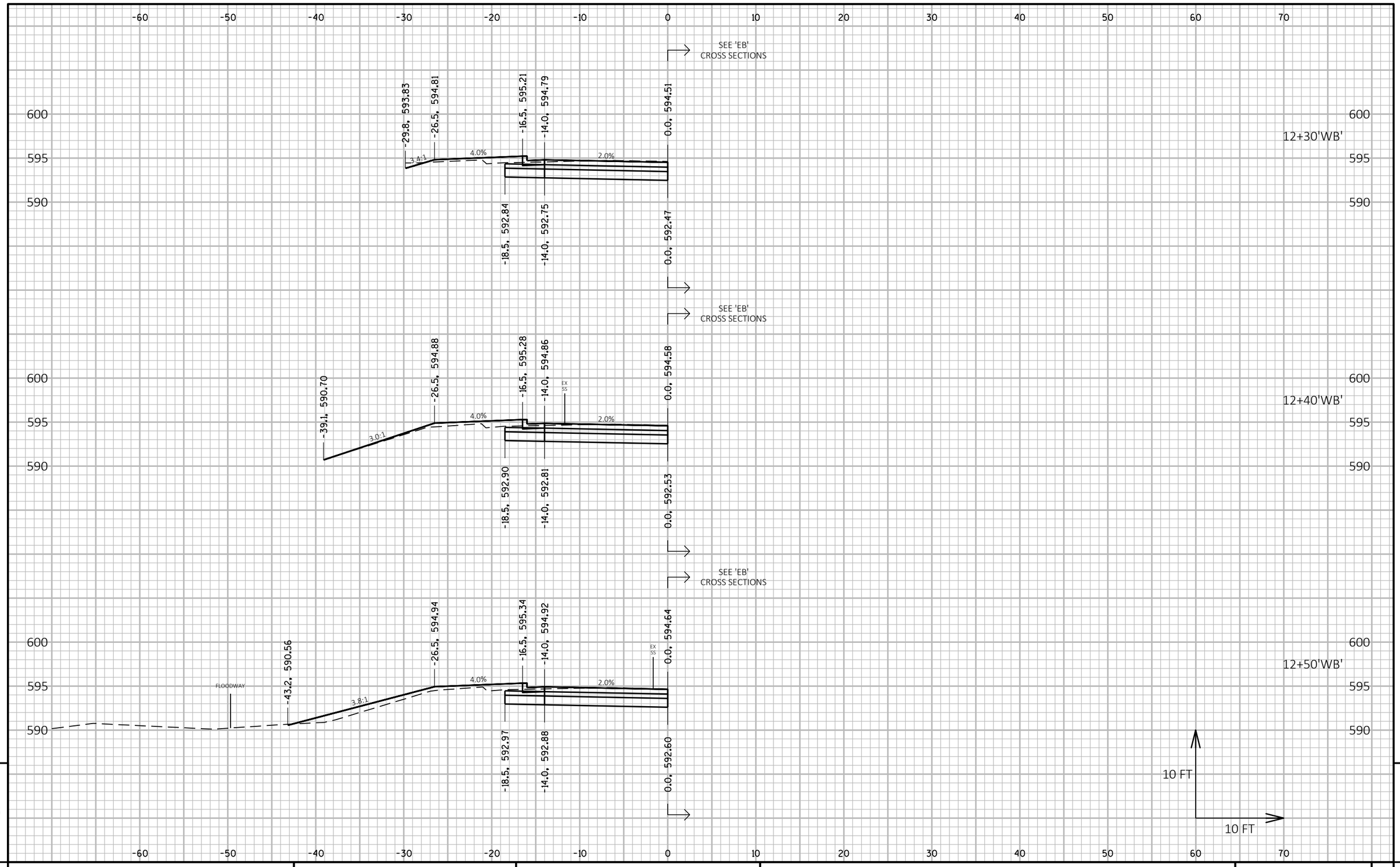
10 FT

10 FT

-60 -50 -40 -30 -20 -10 0 10 20 30 40 50 60 70

9 9

PROJECT NO: 9266-11-03	HWY: CTH HH	COUNTY: BROWN	CROSS SECTIONS: CTH HH - WESTBOUND - STAGE 2	SHEET 246	E



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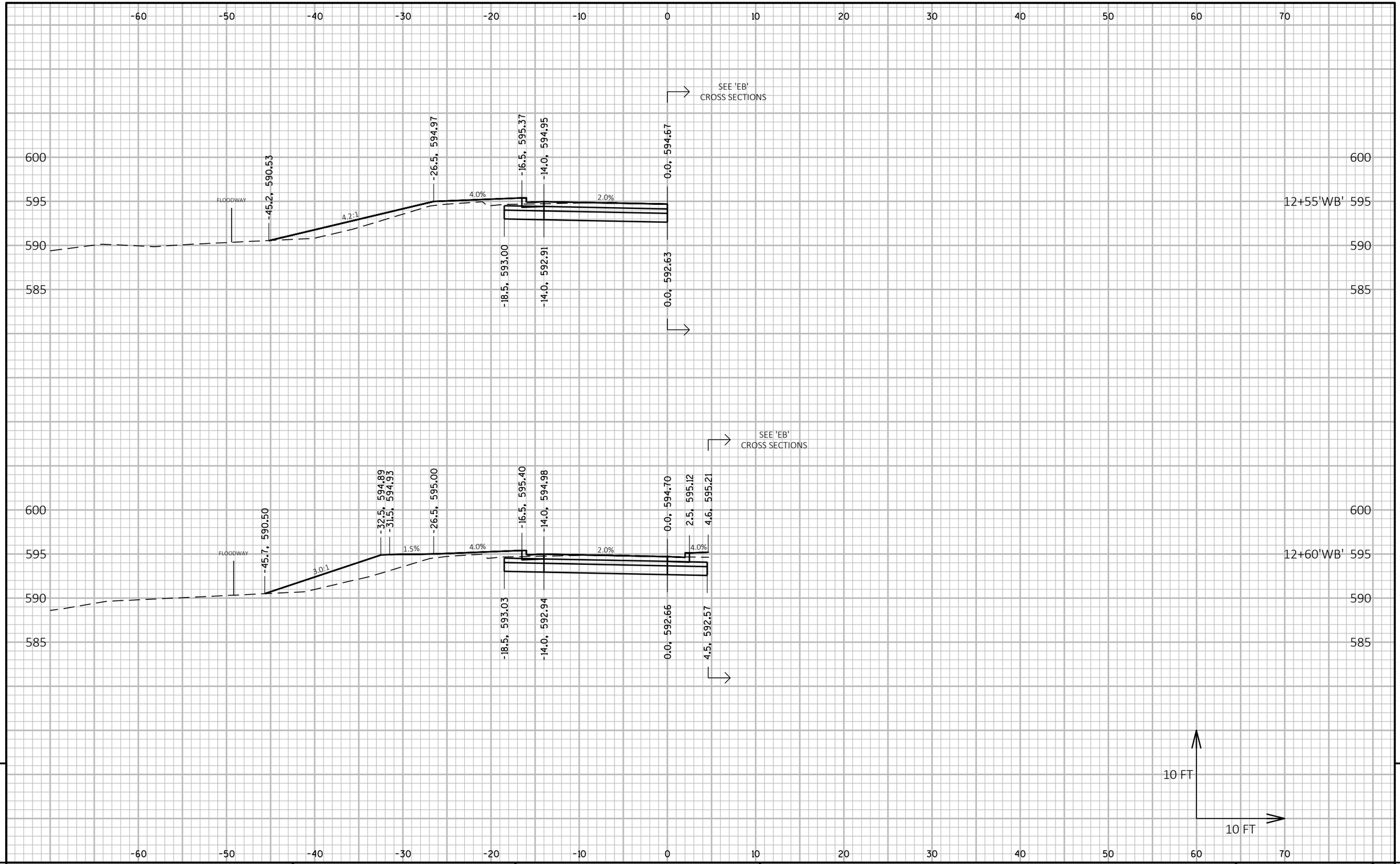
PROJECT NO: 9266-11-03	HWY: CTH HH	COUNTY: BROWN	CROSS SECTIONS: CTH HH - WESTBOUND - STAGE 2	SHEET 247	E

FILE NAME : C:\USGBR1FP001\ATG\60543140\900_CAD_GIS\910_CAD\92661102\SHEETSPLAN\090201_XS_S2.DWG
LAYOUT NAME - WB3

PLOT DATE : 7/14/2019 4:13 PM PLOT BY : CZECH, ANDREW PLOT NAME :

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

WISDOT/CADDS SHEET 49



9

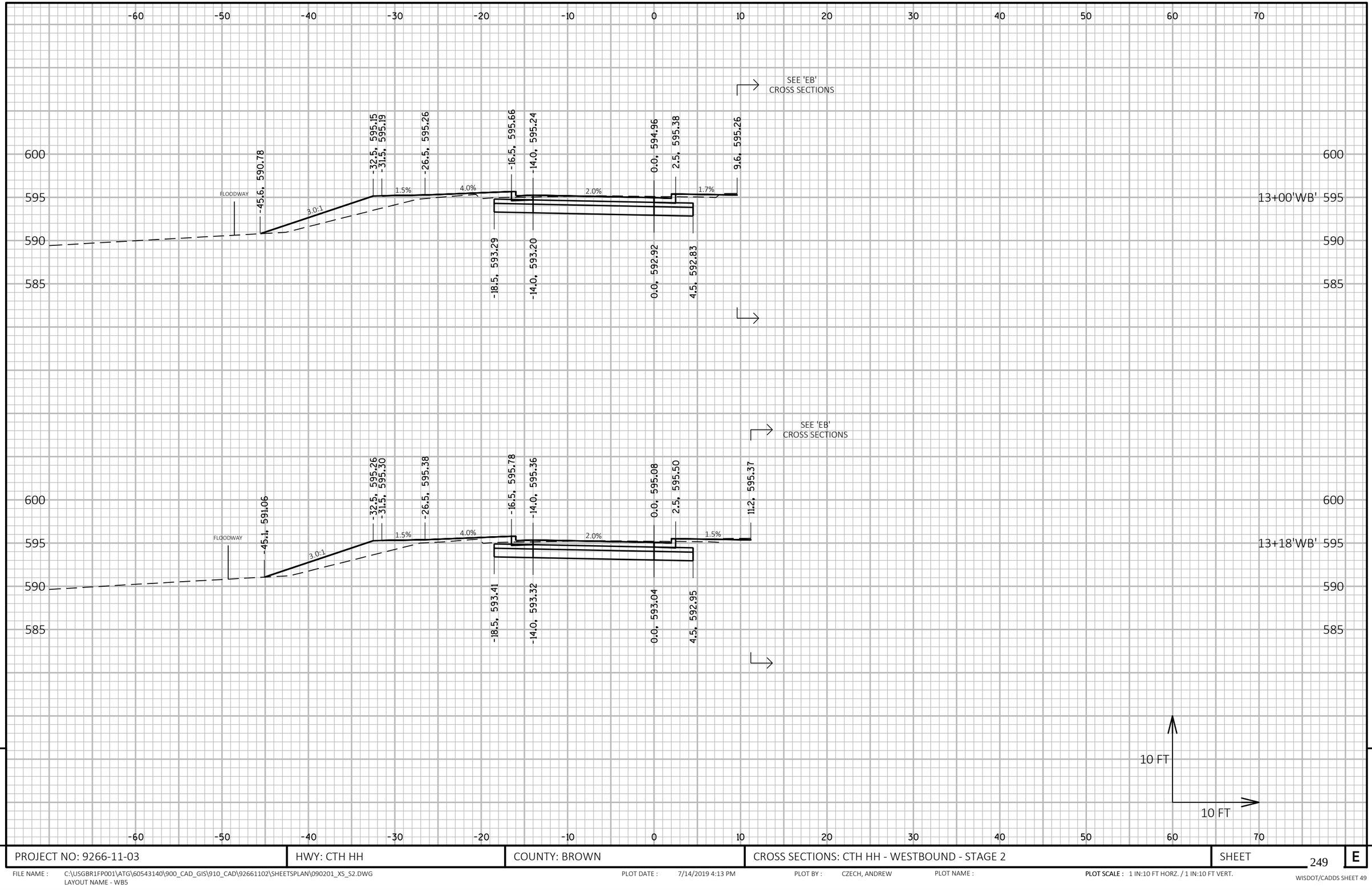
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PROJECT NO: 9266-11-03	HWY: CTH HH	COUNTY: BROWN	CROSS SECTIONS: CTH HH - WESTBOUND - STAGE 2	SHEET 248	E

FILE NAME : C:\USGBR1FP001\ATG\60543140\900_CAD_GIS\910_CAD\92661102\SHEETSPLAN\090201_XS_S2.DWG
LAYOUT NAME - WB4

PLOT DATE : 7/14/2019 4:13 PM PLOT BY : CZECH, ANDREW PLOT NAME : PLOT SCALE : 1 IN:10 FT HORZ. / 1 IN:10 FT VERT.

WISDOT/CADDS SHEET 49



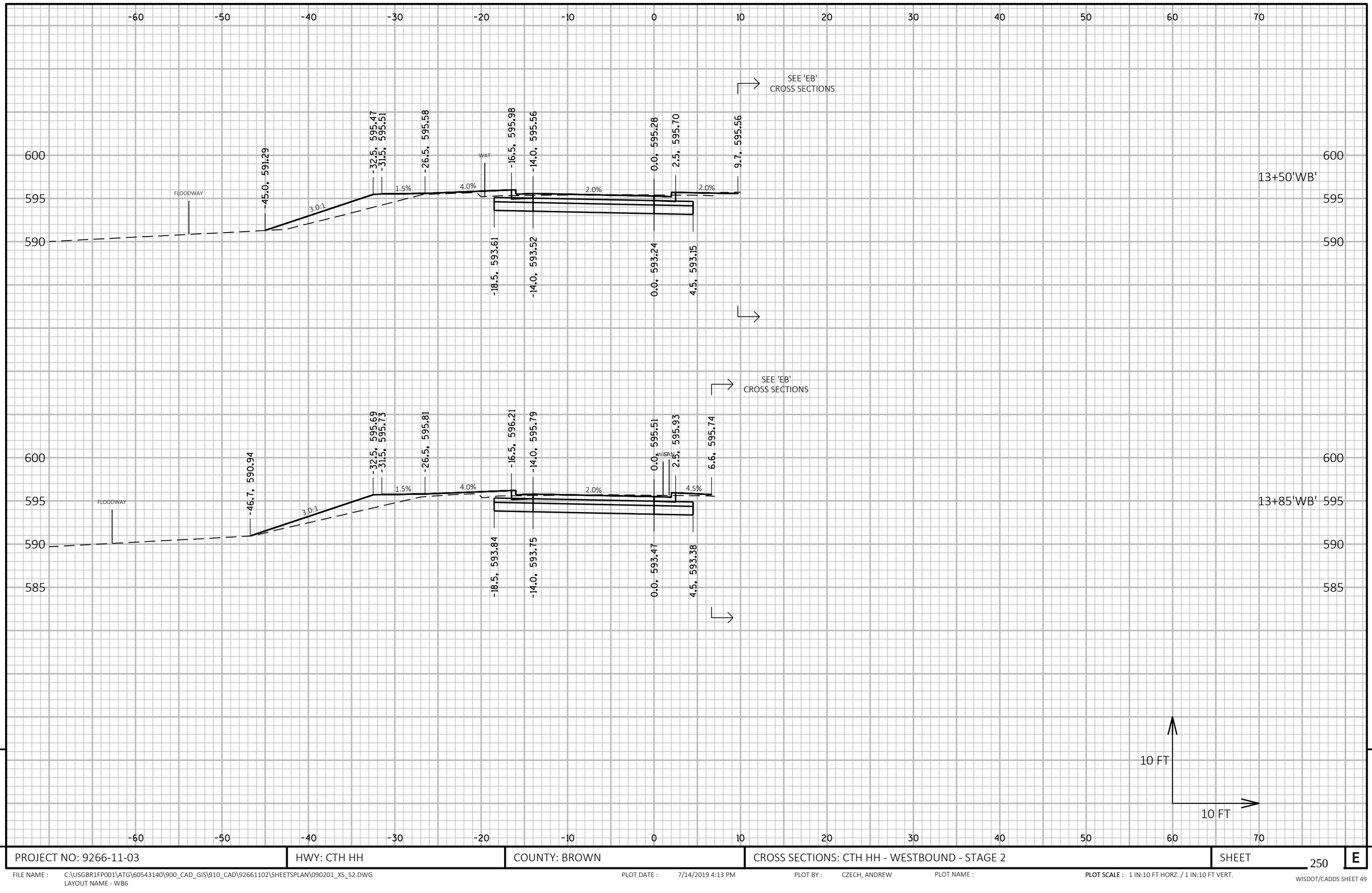
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PROJECT NO: 9266-11-03	HWY: CTH HH	COUNTY: BROWN	CROSS SECTIONS: CTH HH - WESTBOUND - STAGE 2	SHEET 249	E

FILE NAME : C:\USGBR1FP001\ATG\60543140\900_CAD_GIS\910_CAD\92661102\SHEETSPLAN\090201_XS_S2.DWG
LAYOUT NAME - WB5

PLOT DATE : 7/14/2019 4:13 PM PLOT BY : CZECH, ANDREW PLOT NAME : PLOT SCALE : 1 IN:10 FT HORZ. / 1 IN:10 FT VERT.



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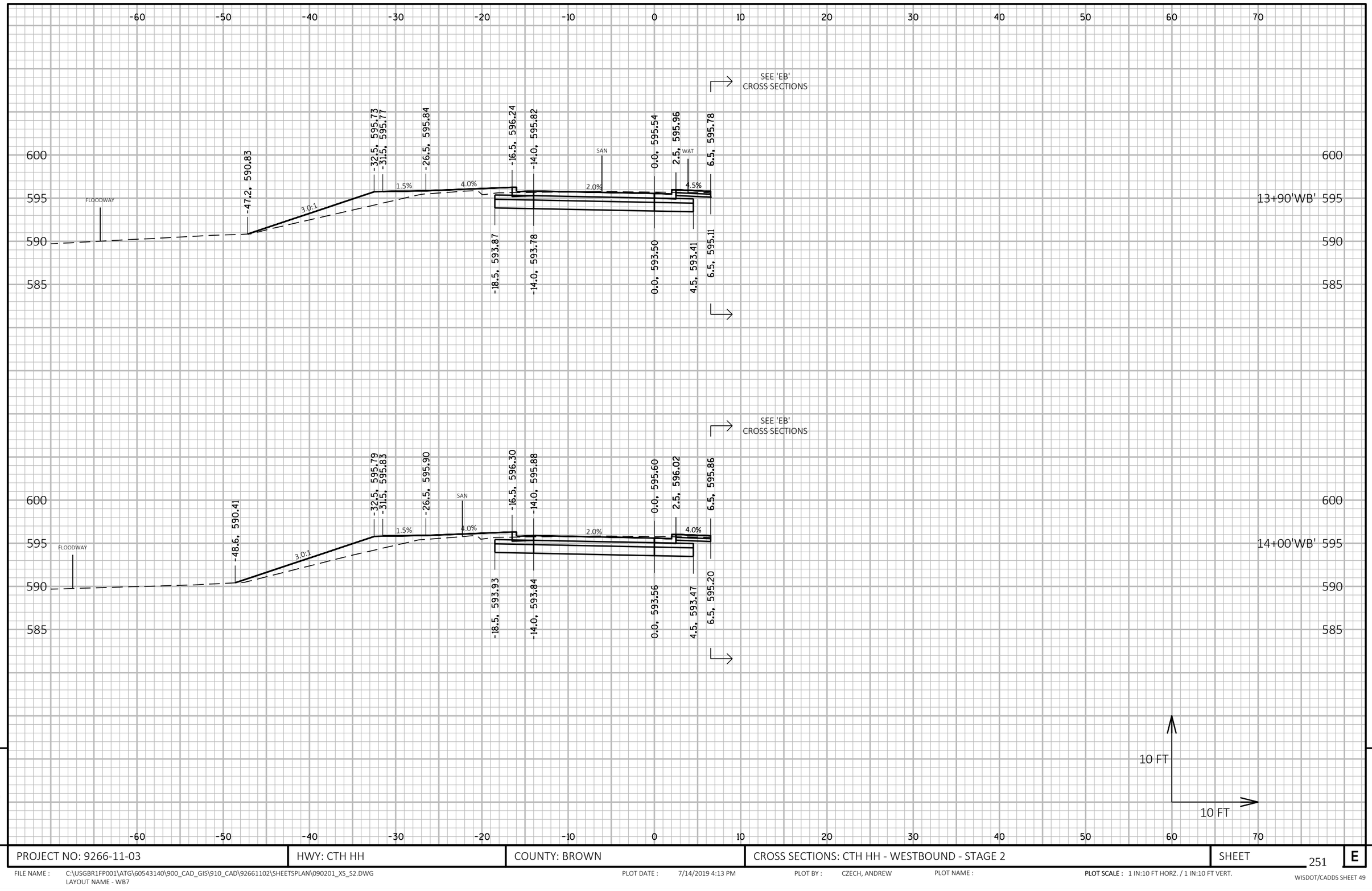
PROJECT NO: 9266-11-03	HWY: CTH HH	COUNTY: BROWN	CROSS SECTIONS: CTH HH - WESTBOUND - STAGE 2	SHEET 250	E

FILE NAME : C:\USGBR1FP001\ATG\60543140\900_CAD_GIS\910_CAD\92661102\SHEETSPLAN\090201_XS_S2.DWG
LAYOUT NAME - WB6

PLOT DATE : 7/14/2019 4:13 PM PLOT BY : CZECH, ANDREW PLOT NAME :

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

WISDOT/CADDS SHEET 49



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9

PROJECT NO: 9266-11-03	HWY: CTH HH	COUNTY: BROWN	CROSS SECTIONS: CTH HH - WESTBOUND - STAGE 2	SHEET 251	E

FILE NAME : C:\USGBR1FP001\ATG\60543140\900_CAD_GIS\910_CAD\92661102\SHEETSPLAN\090201_XS_S2.DWG
LAYOUT NAME - WB7

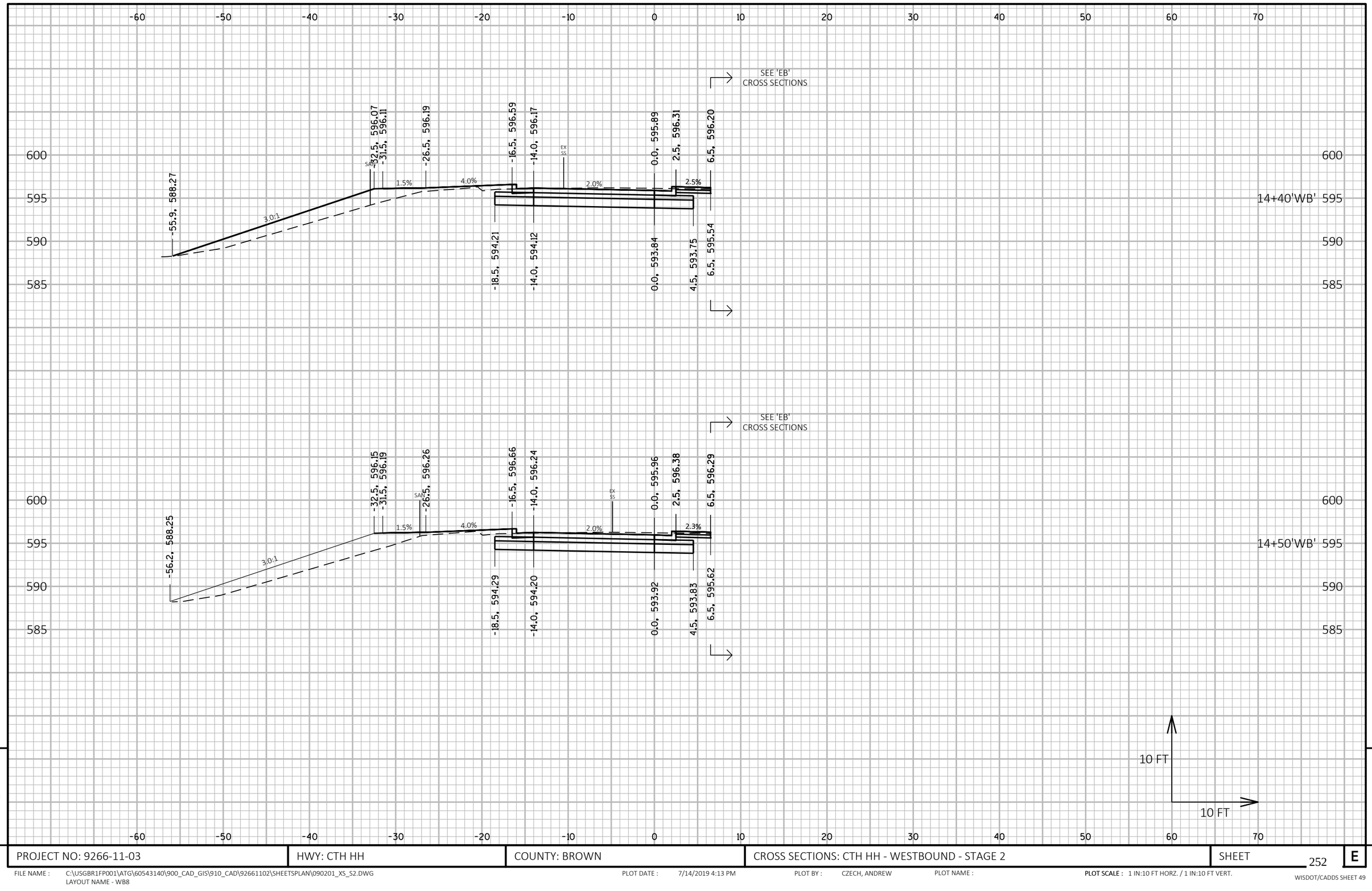
PLOT DATE : 7/14/2019 4:13 PM

PLOT BY : CZECH, ANDREW

PLOT NAME :

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

WISDOT/CADDS SHEET 49



PROJECT NO: 9266-11-03	HWY: CTH HH	COUNTY: BROWN	CROSS SECTIONS: CTH HH - WESTBOUND - STAGE 2	SHEET 252	E

FILE NAME : C:\USGBR1FP001\ATG\60543140\900_CAD_GIS\910_CAD\92661102\SHEETSPLAN\090201_XS_S2.DWG
LAYOUT NAME - WB8

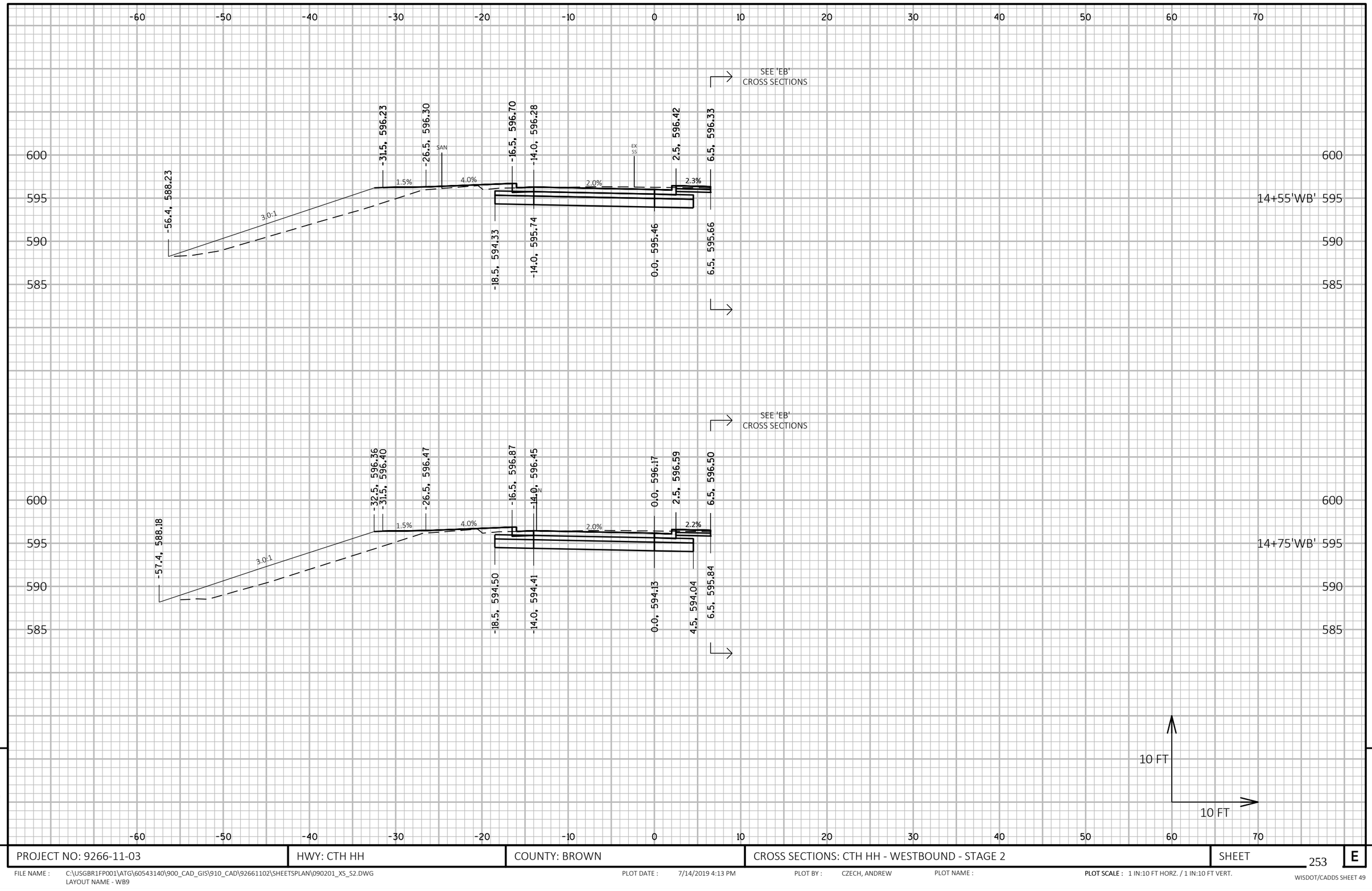
PLOT DATE : 7/14/2019 4:13 PM

PLOT BY : CZECH, ANDREW

PLOT NAME :

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

WISDOT/CADDS SHEET 49



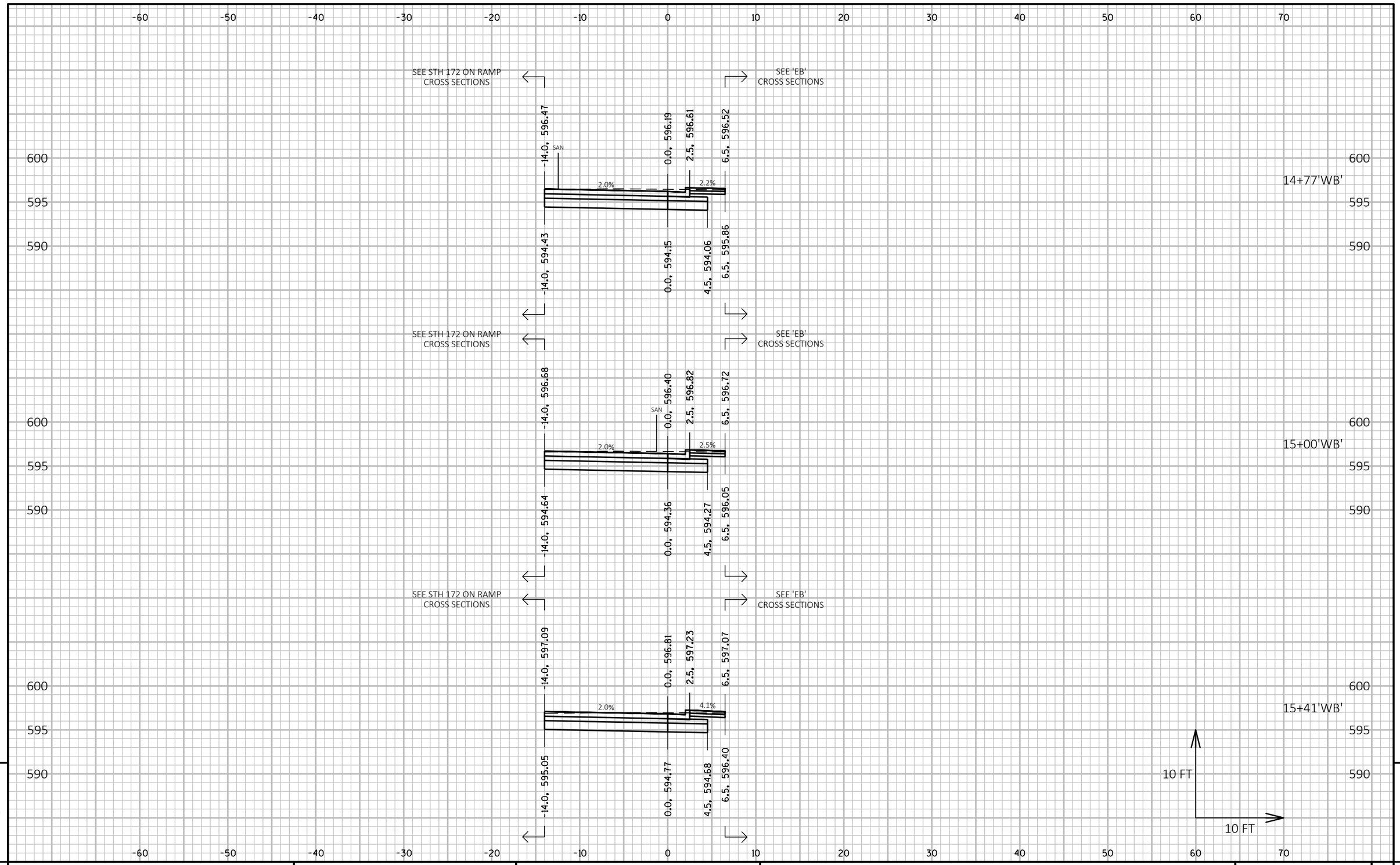
9

PROJECT NO: 9266-11-03	HWY: CTH HH	COUNTY: BROWN	CROSS SECTIONS: CTH HH - WESTBOUND - STAGE 2	SHEET 253	E

FILE NAME : C:\USGBR1FP001\ATG\60543140\900_CAD_GIS\910_CAD\92661102\SHEETSPLAN\090201_XS_S2.DWG
LAYOUT NAME - WB9

PLOT DATE : 7/14/2019 4:13 PM PLOT BY : CZECH, ANDREW PLOT NAME : **PLOT SCALE :** 1 IN:10 FT HORZ. / 1 IN:10 FT VERT.

WISDOT/CADDS SHEET 49



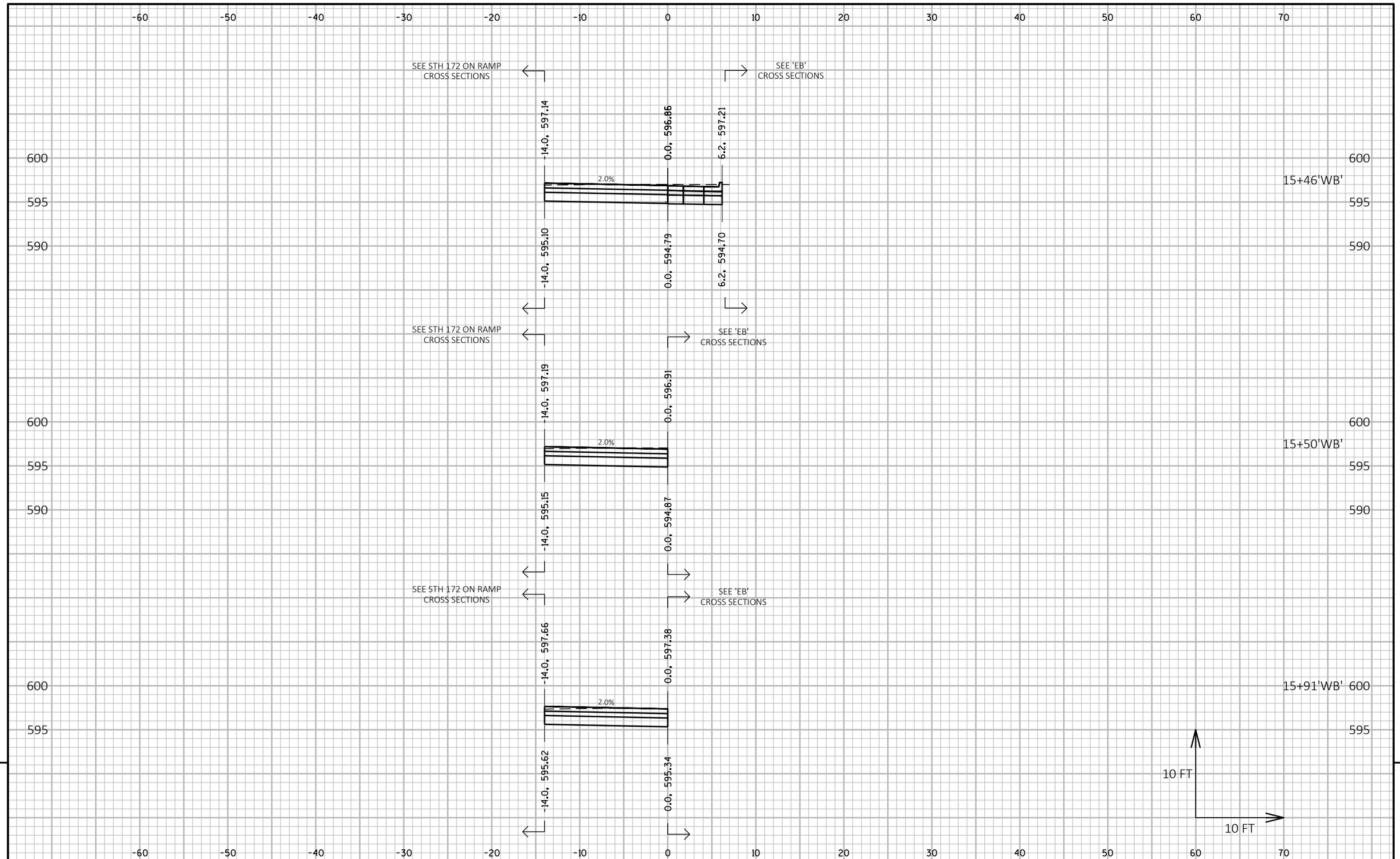
9

PROJECT NO: 9266-11-03	HWY: CTH HH	COUNTY: BROWN	CROSS SECTIONS: CTH HH - WESTBOUND - STAGE 2	SHEET 254	E

FILE NAME : C:\USGBR1FP001\ATG\60543140\900_CAD_GIS\910_CAD\92661102\SHEETSPLAN\090201_XS_S2.DWG
LAYOUT NAME - WB10

PLOT DATE : 7/14/2019 4:14 PM PLOT BY : CZECH, ANDREW PLOT NAME : PLOT SCALE : 1 IN:10 FT HORZ. / 1 IN:10 FT VERT.

WISDOT/CADDS SHEET 49



9

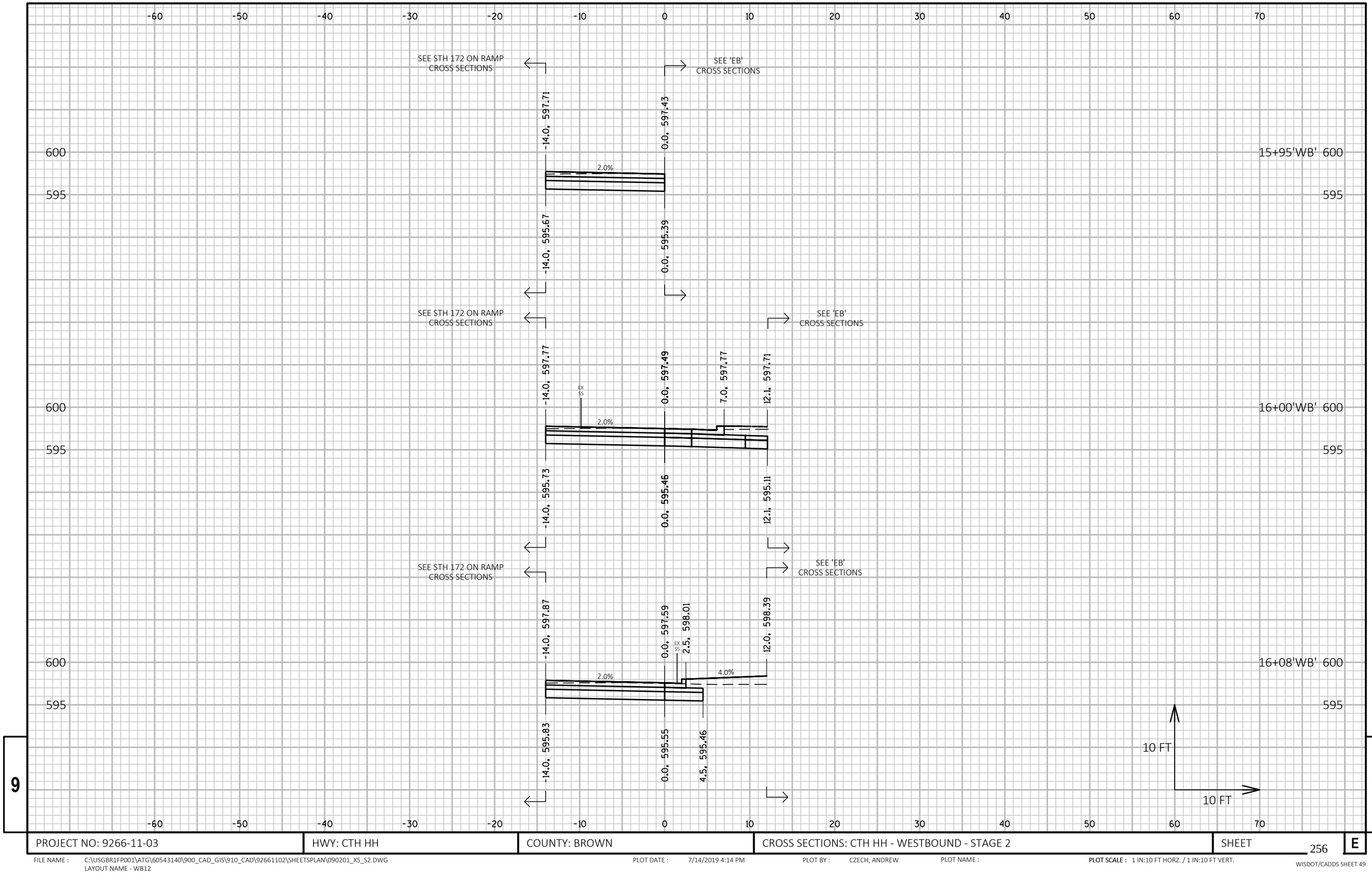
9

PROJECT NO: 9266-11-03	HWY: CTH HH	COUNTY: BROWN	CROSS SECTIONS: CTH HH - WESTBOUND - STAGE 2	SHEET 255	E

FILE NAME : C:\USGBR1FP001\ATG\60543140\900_CAD_GIS\910_CAD\92661102\SHEETSPLAN\090201_XS_S2.DWG
LAYOUT NAME - WB11

PLOT DATE : 7/14/2019 4:14 PM PLOT BY : CZECH, ANDREW PLOT NAME : PLOT SCALE : 1 IN:10 FT HORZ. / 1 IN:10 FT VERT.

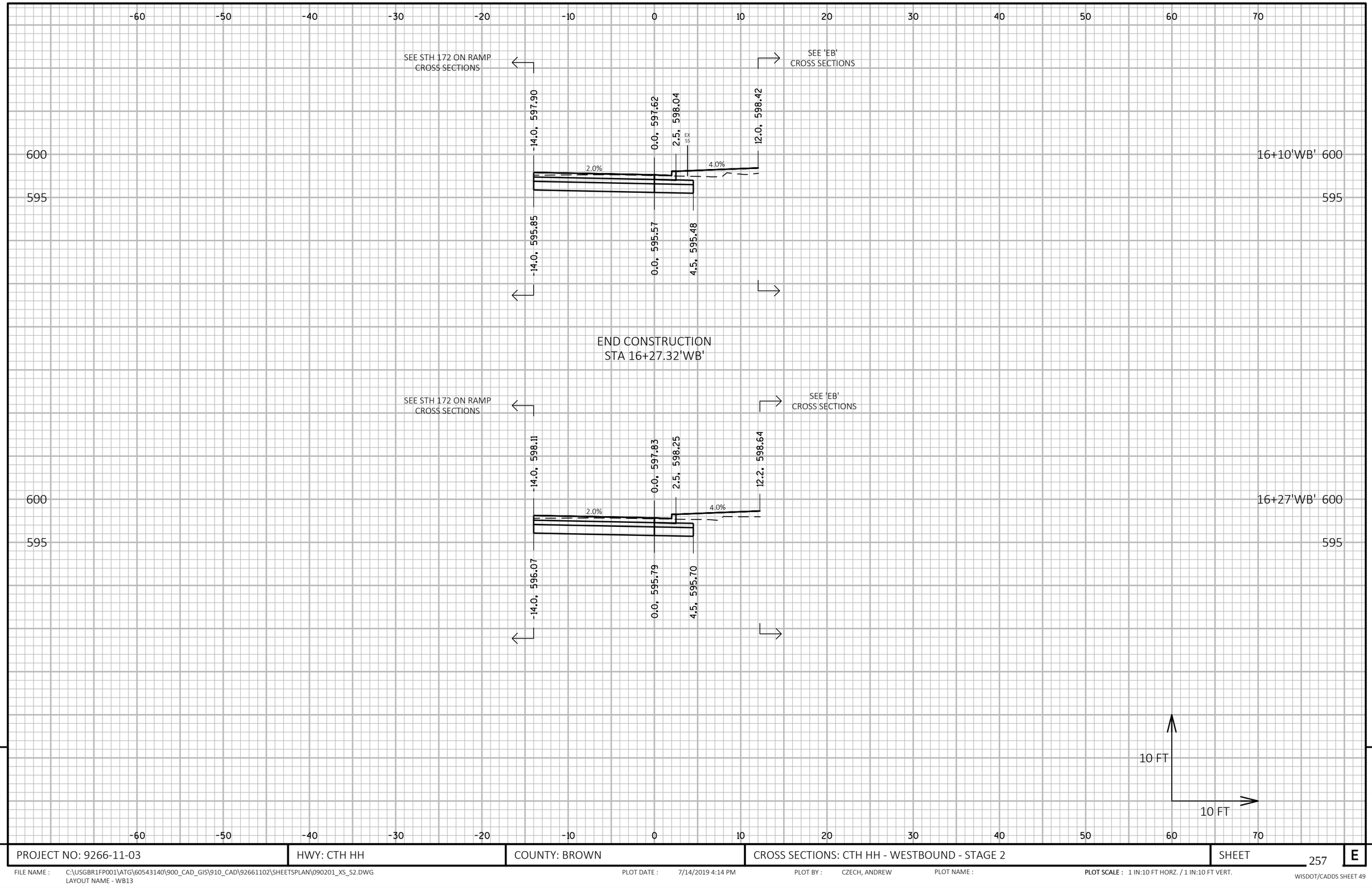
WISDOT/CADDS SHEET 49



PROJECT NO: 9266-11-03	HWY: CTH HH	COUNTY: BROWN	CROSS SECTIONS: CTH HH - WESTBOUND - STAGE 2	SHEET 256	E

FILE NAME : C:\USGBR1FP001\ATG\60543140\900_CAD_GIS\910_CAD\92661102\SHEETSPLAN\090201_XS_S2.DWG
LAYOUT NAME - WB12

PLOT DATE : 7/14/2019 4:14 PM PLOT BY : CZECH, ANDREW PLOT NAME : **PLOT SCALE :** 1 IN:10 FT HORZ. / 1 IN:10 FT VERT.



PROJECT NO: 9266-11-03	HWY: CTH HH	COUNTY: BROWN	CROSS SECTIONS: CTH HH - WESTBOUND - STAGE 2	SHEET 257	E

FILE NAME : C:\USGBR1FP001\ATG\60543140\900_CAD_GIS\910_CAD\92661102\SHEETSPLAN\090201_XS_S2.DWG
LAYOUT NAME - WB13
PLOT DATE : 7/14/2019 4:14 PM
PLOT BY : CZECH, ANDREW
PLOT NAME :
PLOT SCALE : 1 IN:10 FT HORZ. / 1 IN:10 FT VERT.
WISDOT/CADDS SHEET 49

-60 -50 -40 -30 -20 -10 0 10 20 30 40 50 60 70

BEGIN CONSTRUCTION
STA 332+20.09'A'

SEE 'ANE'
CROSS SECTIONS

595
590

-25.7, 594.42 | -23.2, 594.84 | -19.4, 594.89 | -17.5, 594.88 | -15.0, 594.46 | 0.0, 594.65
1.4% 1.4% 0.8% 1.3%
-25.7, 592.38 | -23.2, 592.33 | -19.4, 594.22 | -17.5, 592.38 | -15.0, 592.41 | 0.0, 592.60

SEE 'ANE'
CROSS SECTIONS

332+24'A'

595
590

-24.6, 594.36 | -22.1, 594.78 | -19.1, 594.82 | -17.5, 594.80 | -15.0, 594.38 | 0.0, 594.59
1.4% 1.4% 1.4%
-24.6, 592.33 | -22.1, 592.27 | -19.1, 594.16 | -17.5, 592.30 | -15.0, 592.34 | 0.0, 592.55

SEE 'ANE'
CROSS SECTIONS

332+30'A'

595
590

-23.9, 594.32 | -21.3, 594.74 | -18.9, 594.77 | -17.5, 594.75 | -15.0, 594.33 | 0.0, 594.55
1.5% 2.1% 1.5%
-23.9, 592.29 | -21.3, 592.23 | -18.9, 594.11 | -17.5, 592.25 | -15.0, 592.28 | 0.0, 592.50

332+35'A'

595
590

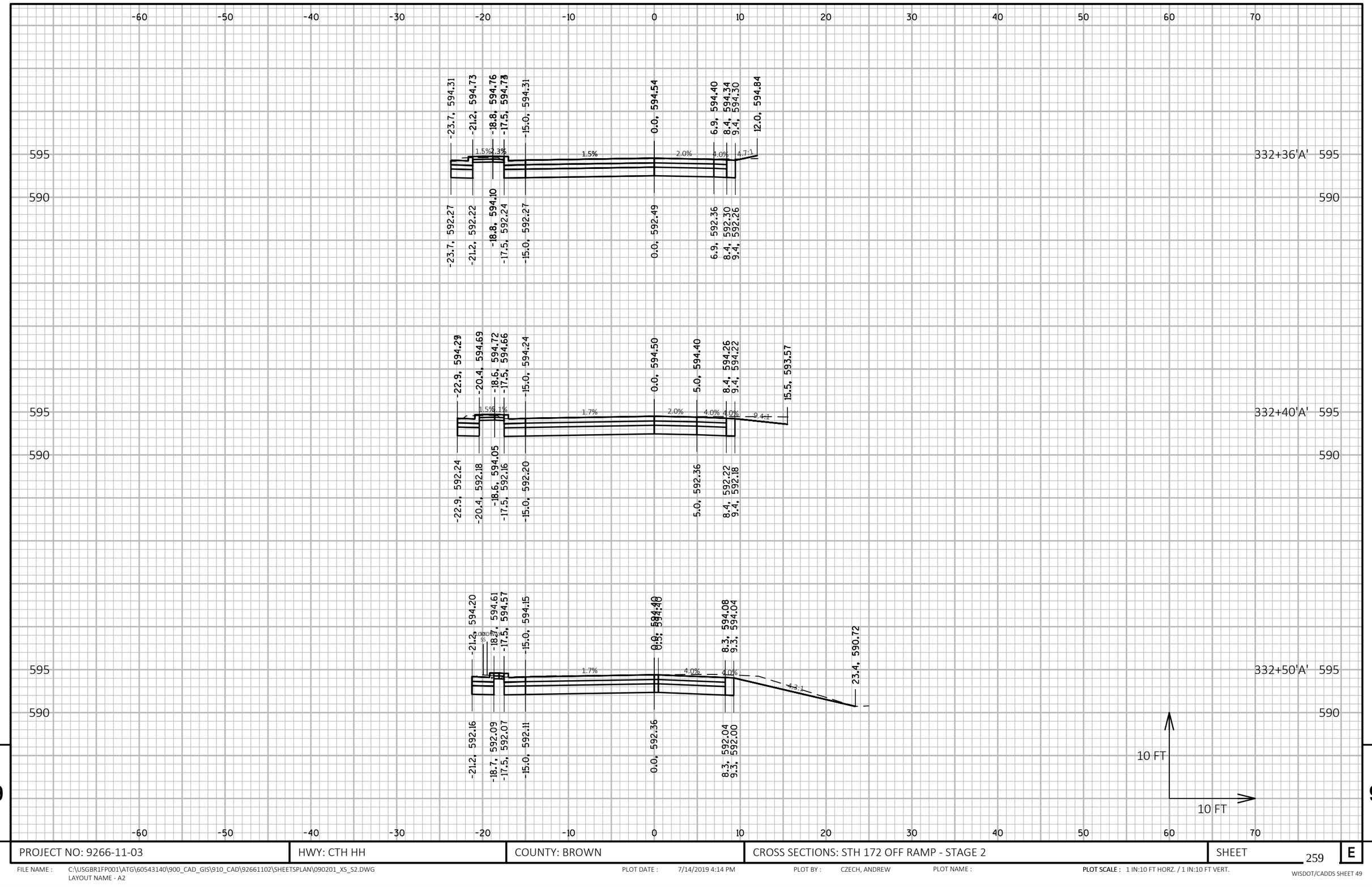
10 FT
10 FT

-60 -50 -40 -30 -20 -10 0 10 20 30 40 50 60 70

9

9

PROJECT NO: 9266-11-03	HWY: CTH HH	COUNTY: BROWN	CROSS SECTIONS: STH 172 OFF RAMP - STAGE 2	SHEET 258	E



9

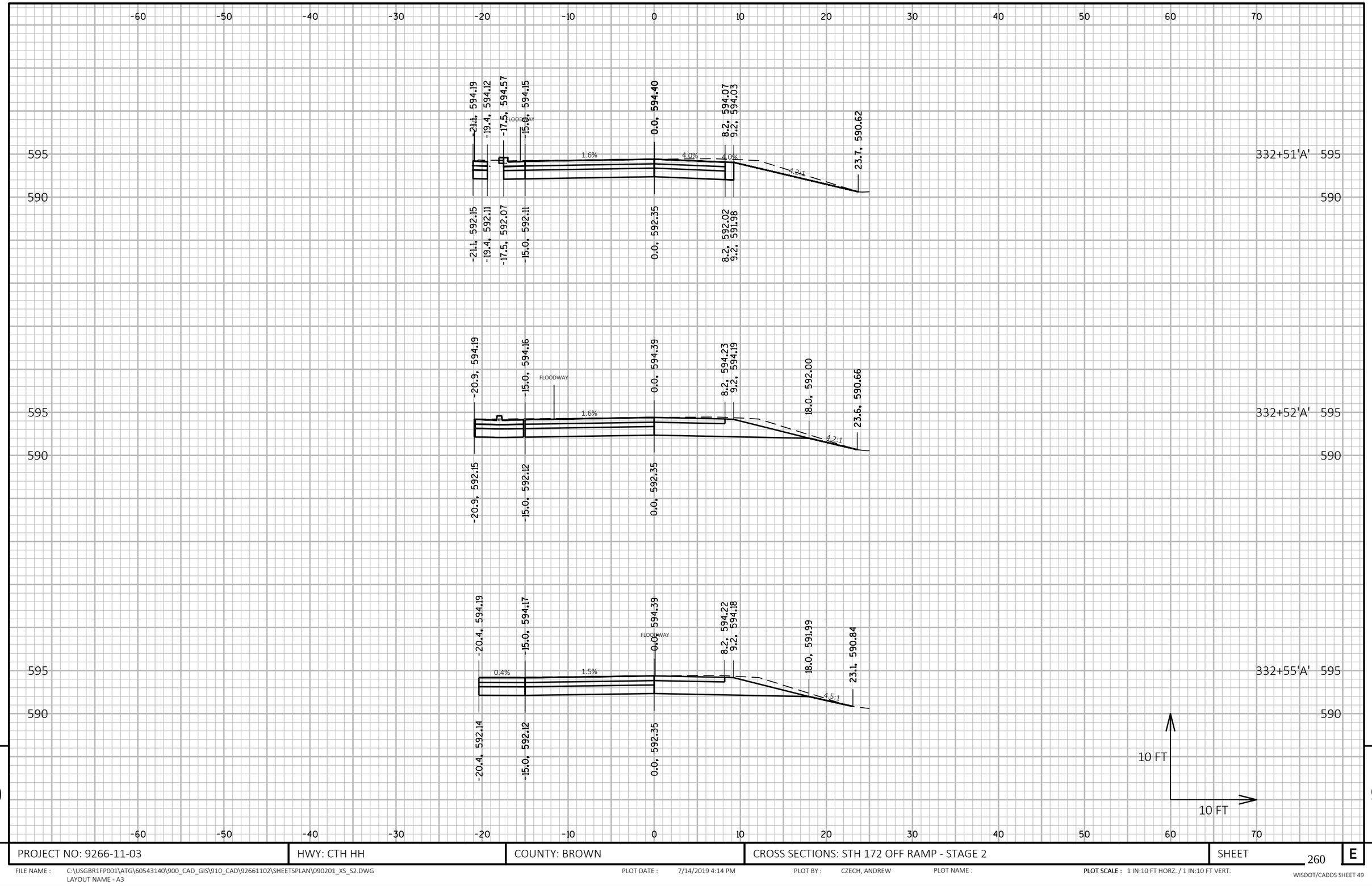
9

PROJECT NO: 9266-11-03	HWY: CTH HH	COUNTY: BROWN	CROSS SECTIONS: STH 172 OFF RAMP - STAGE 2	SHEET 259	E

FILE NAME : C:\USGBR1FP001\ATG\60543140\900_CAD_GIS\910_CAD\92661102\SHEETSPLAN\090201_XS_S2.DWG
LAYOUT NAME - A2

PLOT DATE : 7/14/2019 4:14 PM PLOT BY : CZECH, ANDREW PLOT NAME : **PLOT SCALE :** 1 IN:10 FT HORZ. / 1 IN:10 FT VERT.

WISDOT/CADDS SHEET 49

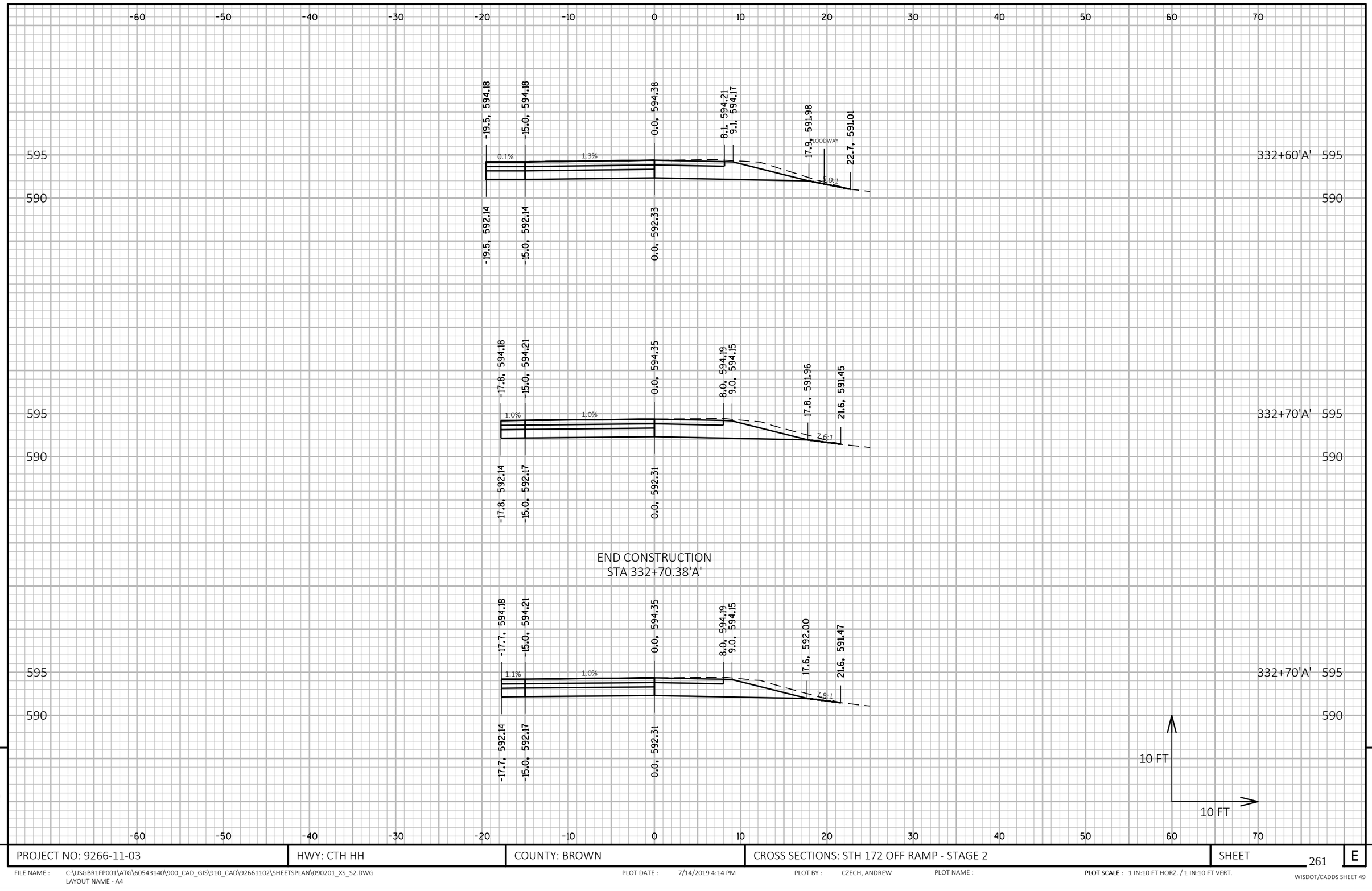


PROJECT NO: 9266-11-03	HWY: CTH HH	COUNTY: BROWN	CROSS SECTIONS: STH 172 OFF RAMP - STAGE 2	SHEET 260	E

FILE NAME : C:\USGBR1FP001\ATG\60543140\900_CAD_GIS\910_CAD\92661102\SHEETSPLAN\090201_XS_S2.DWG
LAYOUT NAME - A3

PLOT DATE : 7/14/2019 4:14 PM PLOT BY : CZECH, ANDREW PLOT NAME : **PLOT SCALE :** 1 IN:10 FT HORZ. / 1 IN:10 FT VERT.

WISDOT/CADDS SHEET 49



9

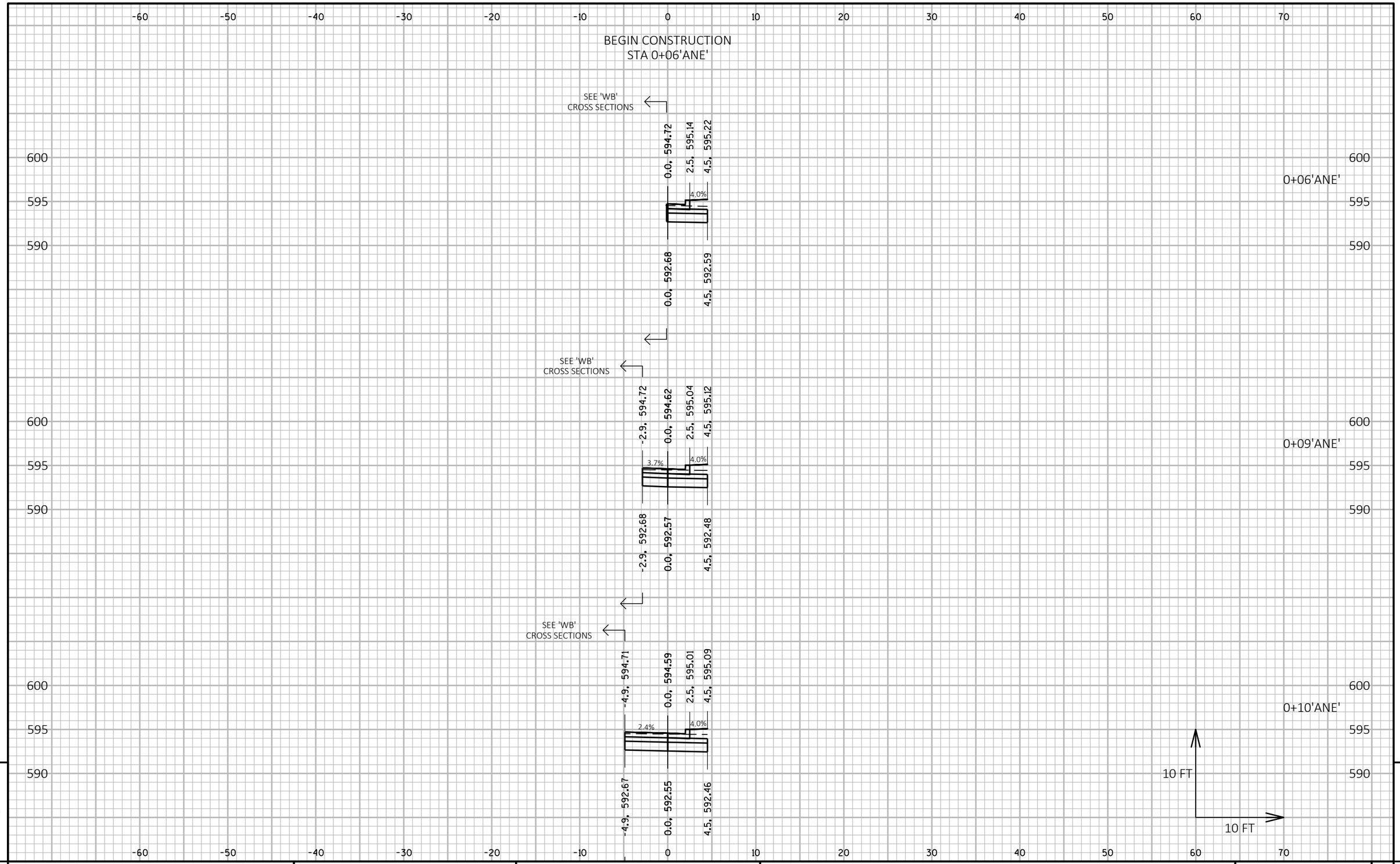
9

PROJECT NO: 9266-11-03	HWY: CTH HH	COUNTY: BROWN	CROSS SECTIONS: STH 172 OFF RAMP - STAGE 2	SHEET 261	E

FILE NAME : C:\USGBR1FP001\ATG\60543140\900_CAD_GIS\910_CAD\92661102\SHEETSPLAN\090201_XS_S2.DWG
LAYOUT NAME - A4

PLOT DATE : 7/14/2019 4:14 PM PLOT BY : CZECH, ANDREW PLOT NAME : PLOT SCALE : 1 IN:10 FT HORZ. / 1 IN:10 FT VERT.

WISDOT/CADDS SHEET 49



9

9

PROJECT NO: 9266-11-03	HWY: CTH HH	COUNTY: BROWN	CROSS SECTIONS: STH 172 OFF RAMP - STAGE 2	SHEET 262	E

FILE NAME : C:\USGBR1FP001\ATG\60543140\900_CAD_GIS\910_CAD\92661102\SHEETSPLAN\090201_XS_S2.DWG
LAYOUT NAME - ANE1

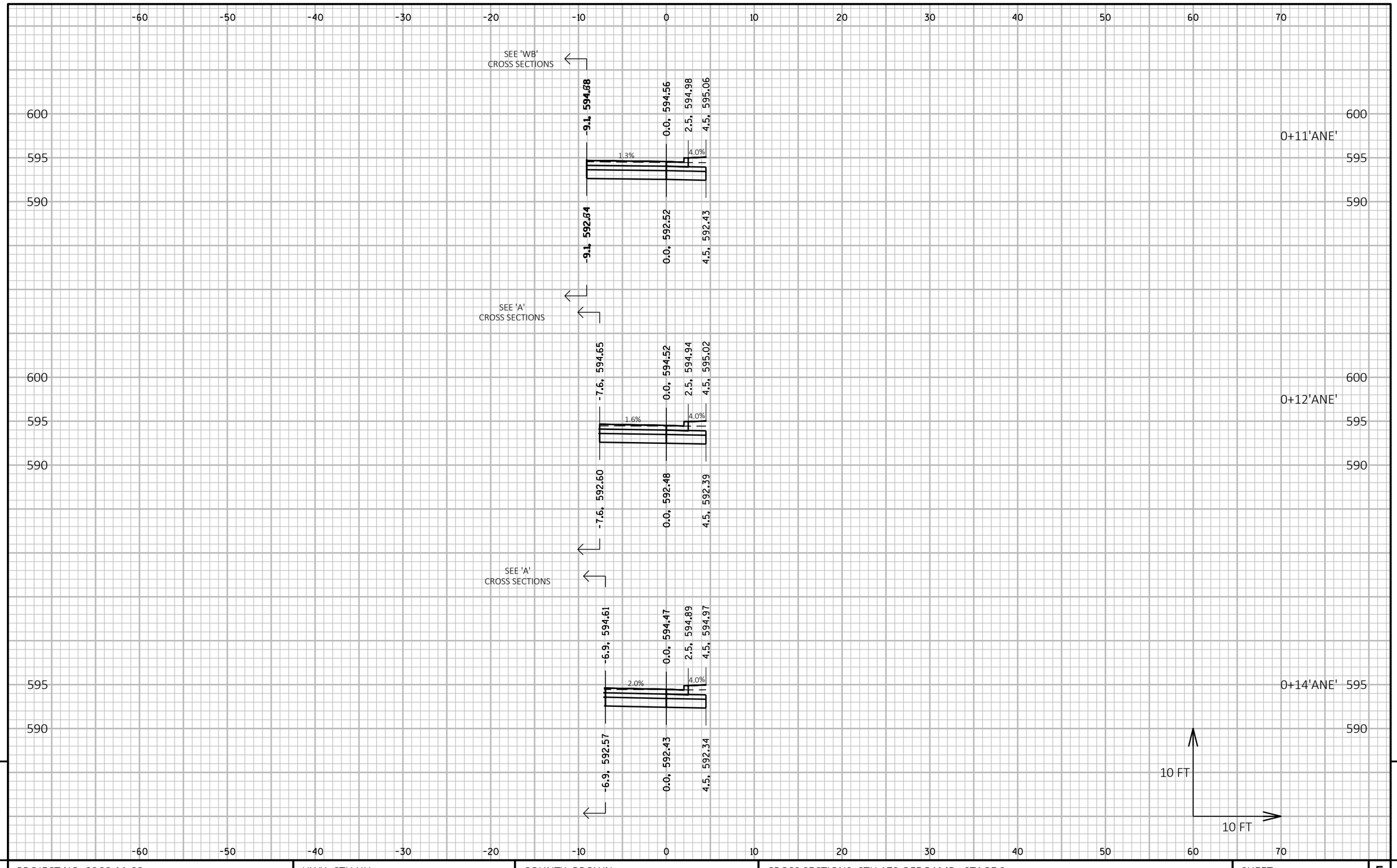
PLOT DATE : 7/14/2019 4:14 PM

PLOT BY : CZECH, ANDREW

PLOT NAME :

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

WISDOT/CADDS SHEET 49



9

9

PROJECT NO: 9266-11-03	HWY: CTH HH	COUNTY: BROWN	CROSS SECTIONS: STH 172 OFF RAMP - STAGE 2	SHEET 263	E

FILE NAME : C:\USGBR1FP001\ATG\60543140\900_CAD_GIS\910_CAD\92661102\SHEETSPLAN\090201_XS_S2.DWG
LAYOUT NAME - ANE2

PLOT DATE : 7/14/2019 4:14 PM

PLOT BY : CZECH, ANDREW

PLOT NAME :

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

WISDOT/CADDS SHEET 49

-60 -50 -40 -30 -20 -10 0 10 20 30 40 50 60 70

SEE 'A'
CROSS SECTIONS

-6.9, 594.60 | 0.0, 594.46 | 2.5, 594.88 | 4.5, 594.96

2.0% 4.0%

595 590

0+15'ANE' 595 590

-6.9, 592.56 | 0.0, 592.42 | 4.5, 592.33

SEE 'A'
CROSS SECTIONS

-6.9, 594.55 | 0.0, 594.41 | 2.5, 594.83 | 4.5, 594.91

2.0% 4.0%

595 590

0+20'ANE' 595 590

-6.9, 592.51 | 0.0, 592.37 | 4.5, 592.28

END CONSTRUCTION
STA 0+22'ANE'

SEE 'A'
CROSS SECTIONS

-6.9, 594.54 | 0.0, 594.40 | 2.5, 594.82 | 4.5, 594.90

2.0% 4.0%

595 590

0+22'ANE' 595 590

-6.9, 592.50 | 0.0, 592.36 | 4.5, 592.27

10 FT

10 FT

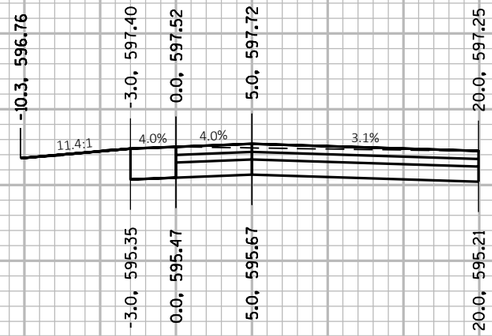
-60 -50 -40 -30 -20 -10 0 10 20 30 40 50 60 70

9 9

PROJECT NO: 9266-11-03	HWY: CTH HH	COUNTY: BROWN	CROSS SECTIONS: STH 172 OFF RAMP - STAGE 2	SHEET 264	E

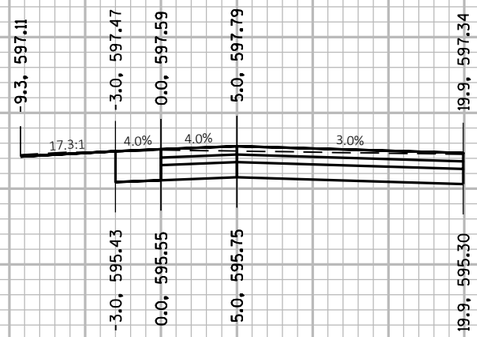
BEGIN CONSTRUCTION
STA 0+00'D'

SEE 'BNW'
CROSS SECTIONS



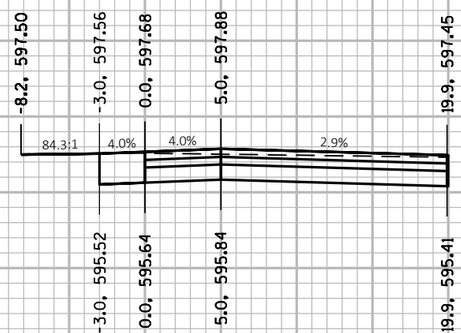
0+00'D'

SEE 'BNW'
CROSS SECTIONS



0+05'D'

SEE 'BNW'
CROSS SECTIONS



0+10'D'

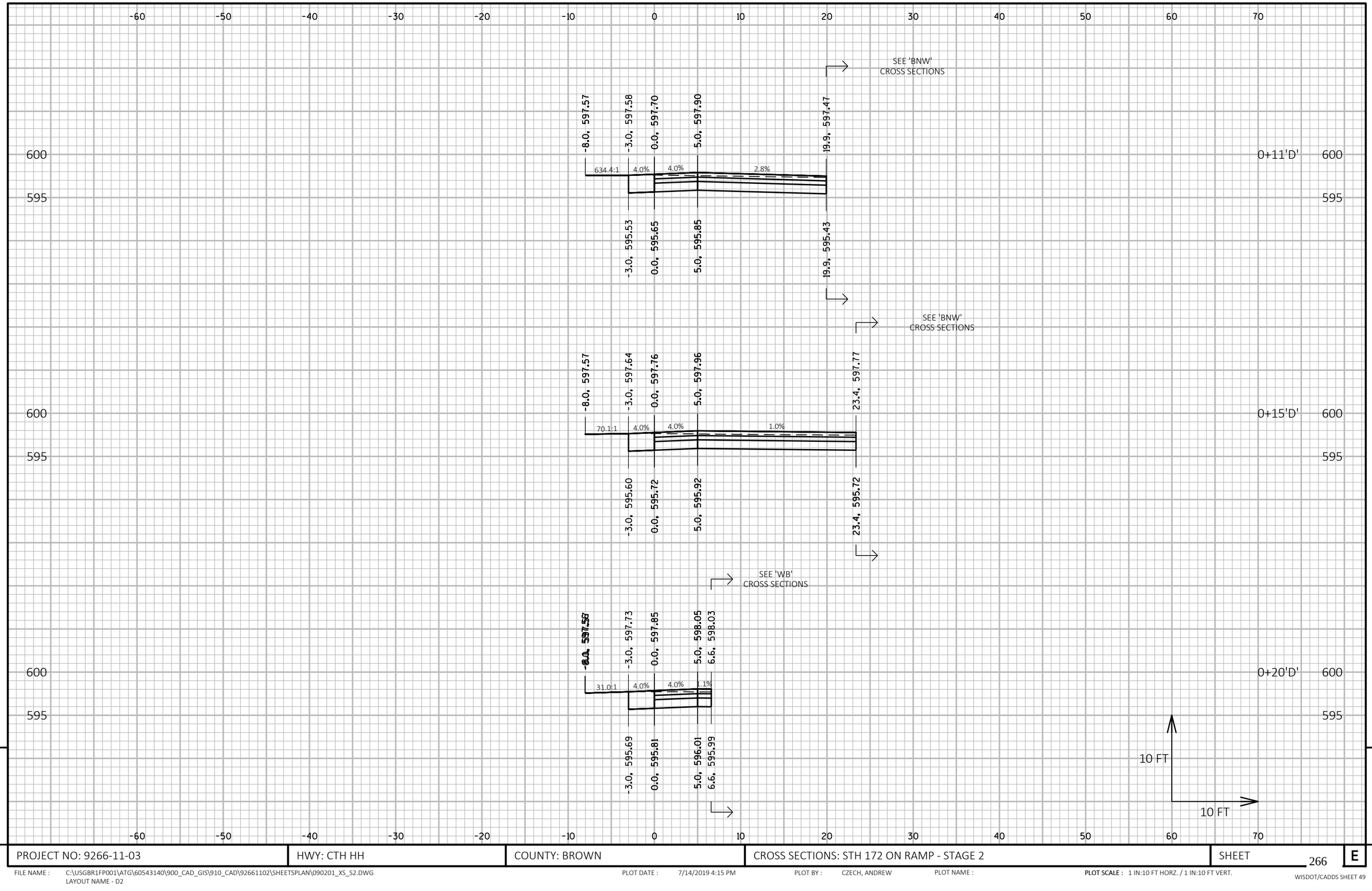


PROJECT NO: 9266-11-03	HWY: CTH HH	COUNTY: BROWN	CROSS SECTIONS: STH 172 ON RAMP - STAGE 2	SHEET 265	E

FILE NAME : C:\USGBR1FP001\ATG\60543140\900_CAD_GIS\910_CAD\92661102\SHEETSPLAN\090201_XS_S2.DWG
LAYOUT NAME - D1

PLOT DATE : 7/14/2019 4:14 PM PLOT BY : CZECH, ANDREW PLOT NAME : **PLOT SCALE :** 1 IN:10 FT HORZ. / 1 IN:10 FT VERT.

WISDOT/CADDS SHEET 49



PROJECT NO: 9266-11-03	HWY: CTH HH	COUNTY: BROWN	CROSS SECTIONS: STH 172 ON RAMP - STAGE 2	SHEET 266	E

FILE NAME : C:\USGBR1FP001\ATG\60543140\900_CAD_GIS\910_CAD\92661102\SHEETSPLAN\090201_XS_S2.DWG
LAYOUT NAME - D2

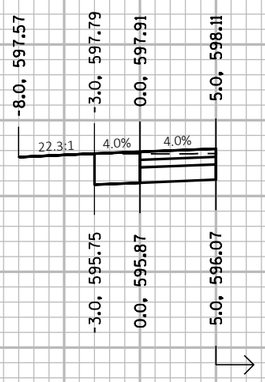
PLOT DATE : 7/14/2019 4:15 PM PLOT BY : CZECH, ANDREW PLOT NAME : **PLOT SCALE :** 1 IN:10 FT HORZ. / 1 IN:10 FT VERT.

WISDOT/CADDS SHEET 49

-60 -50 -40 -30 -20 -10 0 10 20 30 40 50 60 70

END CONSTRUCTION
STA 0+24'D'

SEE 'WB'
CROSS SECTIONS



600
595

0+24'D'

600
595

10 FT
10 FT

-60 -50 -40 -30 -20 -10 0 10 20 30 40 50 60 70

9

9

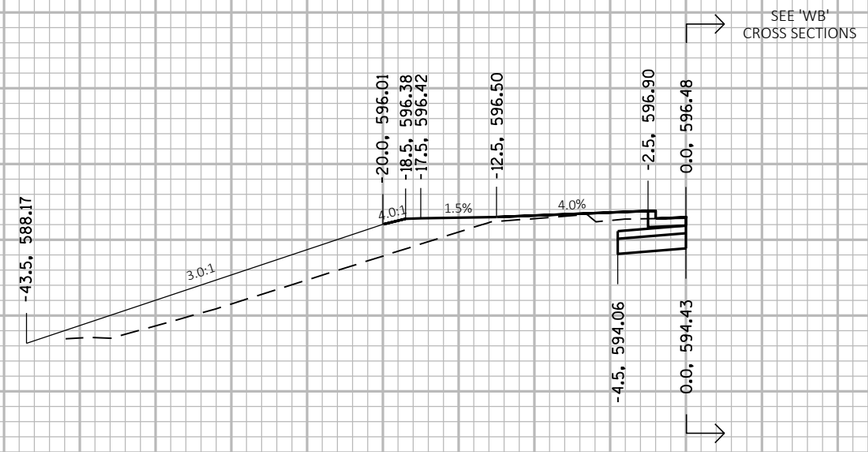
PROJECT NO: 9266-11-03	HWY: CTH HH	COUNTY: BROWN	CROSS SECTIONS: STH 172 ON RAMP - STAGE 2	SHEET 267	E

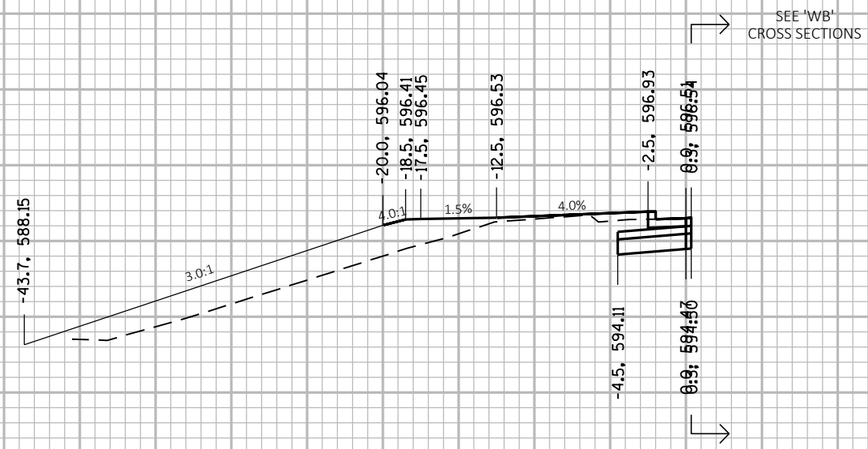
FILE NAME : C:\USGBR1FP001\ATG\60543140\900_CAD_GIS\910_CAD\92661102\SHEETSPLAN\090201_XS_S2.DWG
LAYOUT NAME - D3

PLOT DATE : 7/14/2019 4:15 PM PLOT BY : CZECH, ANDREW PLOT NAME : **PLOT SCALE :** 1 IN:10 FT HORZ. / 1 IN:10 FT VERT.

WISDOT/CADDS SHEET 49

BEGIN CONSTRUCTION
STA 0+03'BNW'





600 595 590 585

0+03'BNW' 595

0+10'BNW' 595

10 FT
10 FT

-60 -50 -40 -30 -20 -10 0 10 20 30 40 50 60 70

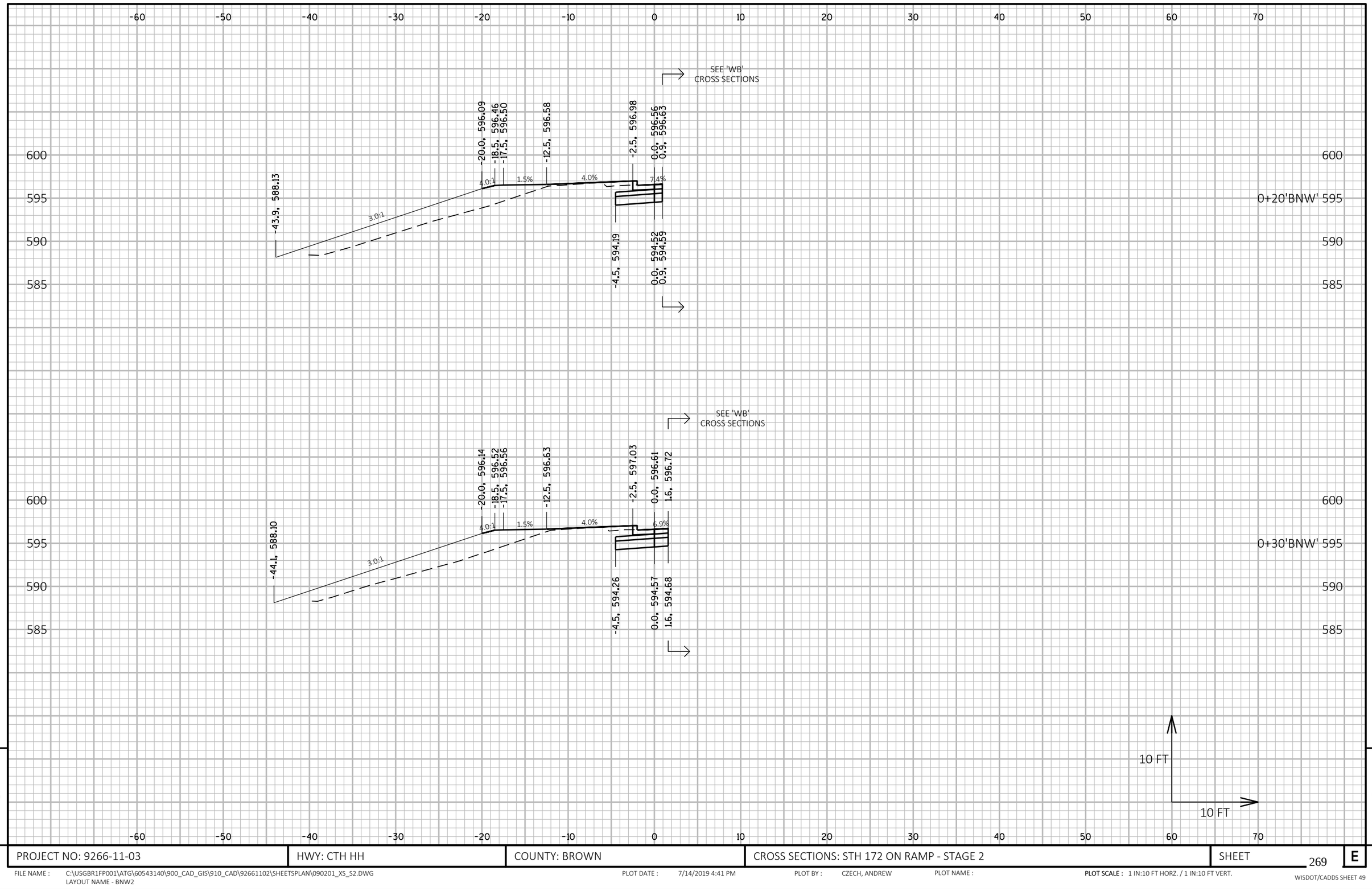
9

PROJECT NO: 9266-11-03	HWY: CTH HH	COUNTY: BROWN	CROSS SECTIONS: STH 172 ON RAMP - STAGE 2	SHEET 268	E

FILE NAME : C:\USGBR1FP001\ATG\60543140\900_CAD_GIS\910_CAD\92661102\SHEETSPLAN\090201_XS_S2.DWG
LAYOUT NAME - BNW1

PLOT DATE : 7/14/2019 4:15 PM PLOT BY : CZECH, ANDREW PLOT NAME : PLOT SCALE : 1 IN:10 FT HORZ. / 1 IN:10 FT VERT.

WISDOT/CADDS SHEET 49

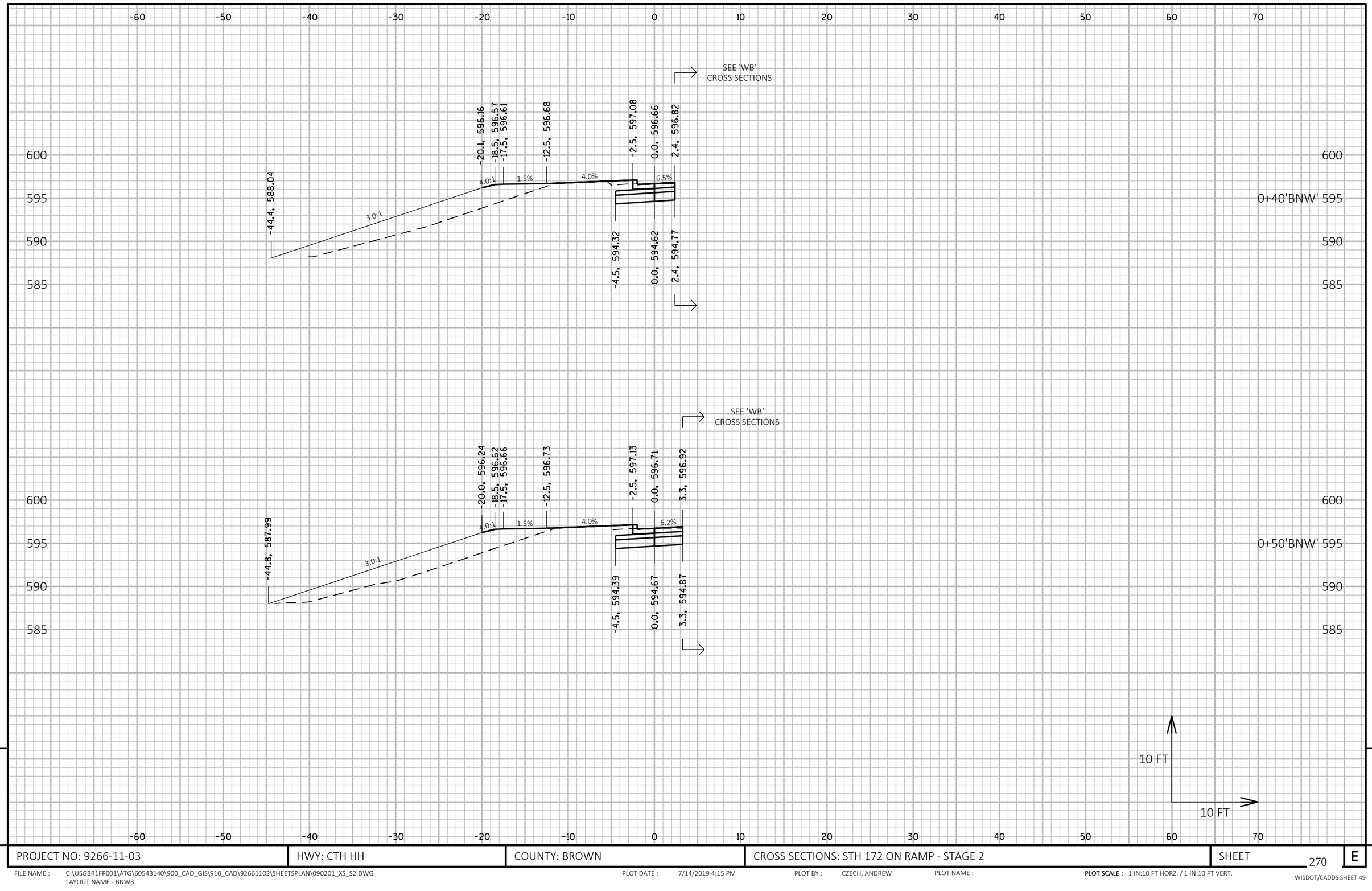


PROJECT NO: 9266-11-03	HWY: CTH HH	COUNTY: BROWN	CROSS SECTIONS: STH 172 ON RAMP - STAGE 2	SHEET 269	E

FILE NAME : C:\USGBR1FP001\ATG\60543140\900_CAD_GIS\910_CAD\92661102\SHEETSPLAN\090201_XS_S2.DWG
LAYOUT NAME - BNW2

PLOT DATE : 7/14/2019 4:41 PM PLOT BY : CZECH, ANDREW PLOT NAME : PLOT SCALE : 1 IN:10 FT HORZ. / 1 IN:10 FT VERT.

WISDOT/CADDS SHEET 49



9

9

PROJECT NO: 9266-11-03	HWY: CTH HH	COUNTY: BROWN	CROSS SECTIONS: STH 172 ON RAMP - STAGE 2	SHEET 270	E

FILE NAME : C:\USGBR1FP001\ATG\60543140\900_CAD_GIS\910_CAD\92661102\SHEETSPLAN\090201_XS_S2.DWG
LAYOUT NAME - BNW3

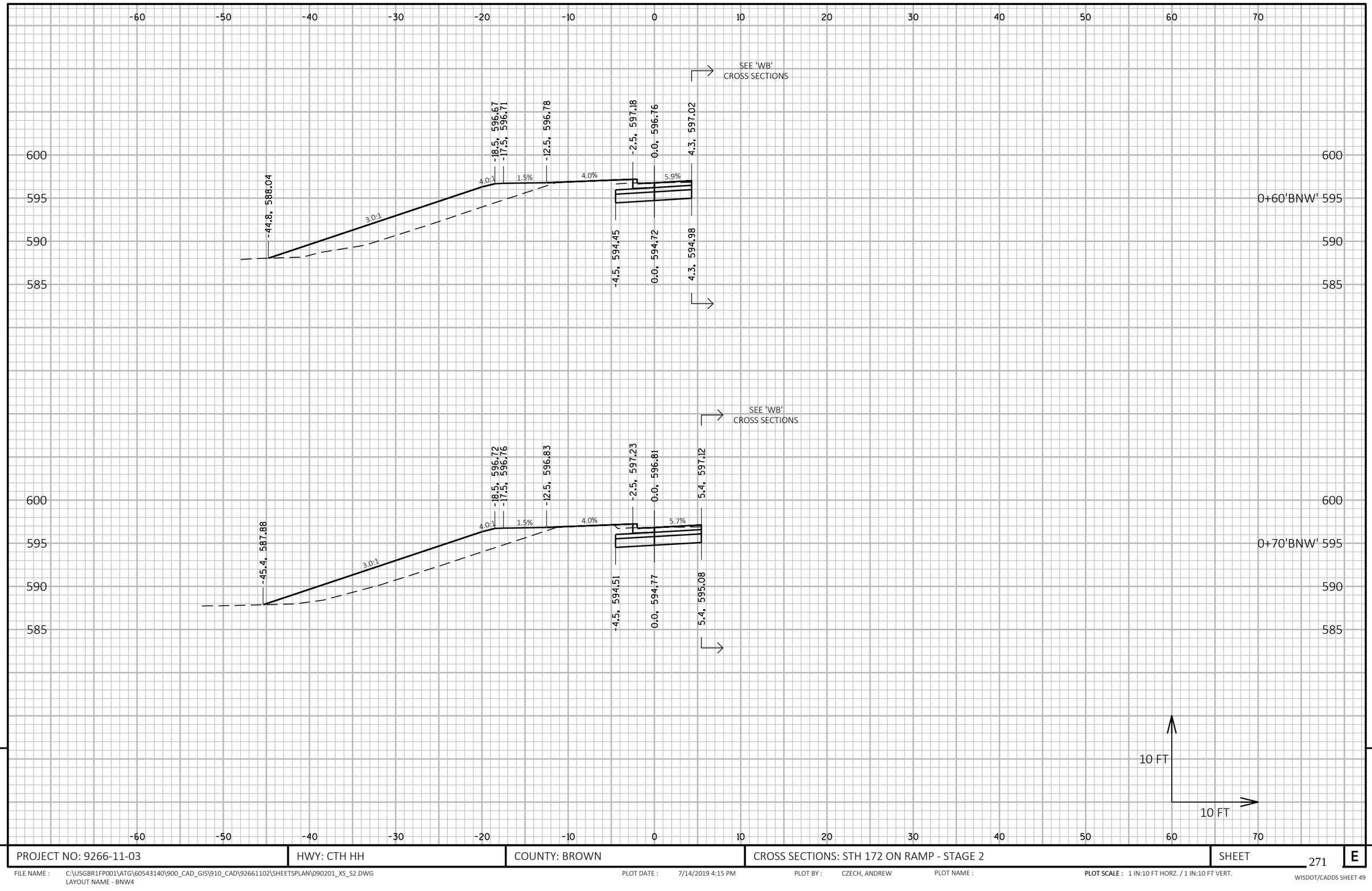
PLOT DATE : 7/14/2019 4:15 PM

PLOT BY : CZECH, ANDREW

PLOT NAME :

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

WISDOT/CADDS SHEET 49

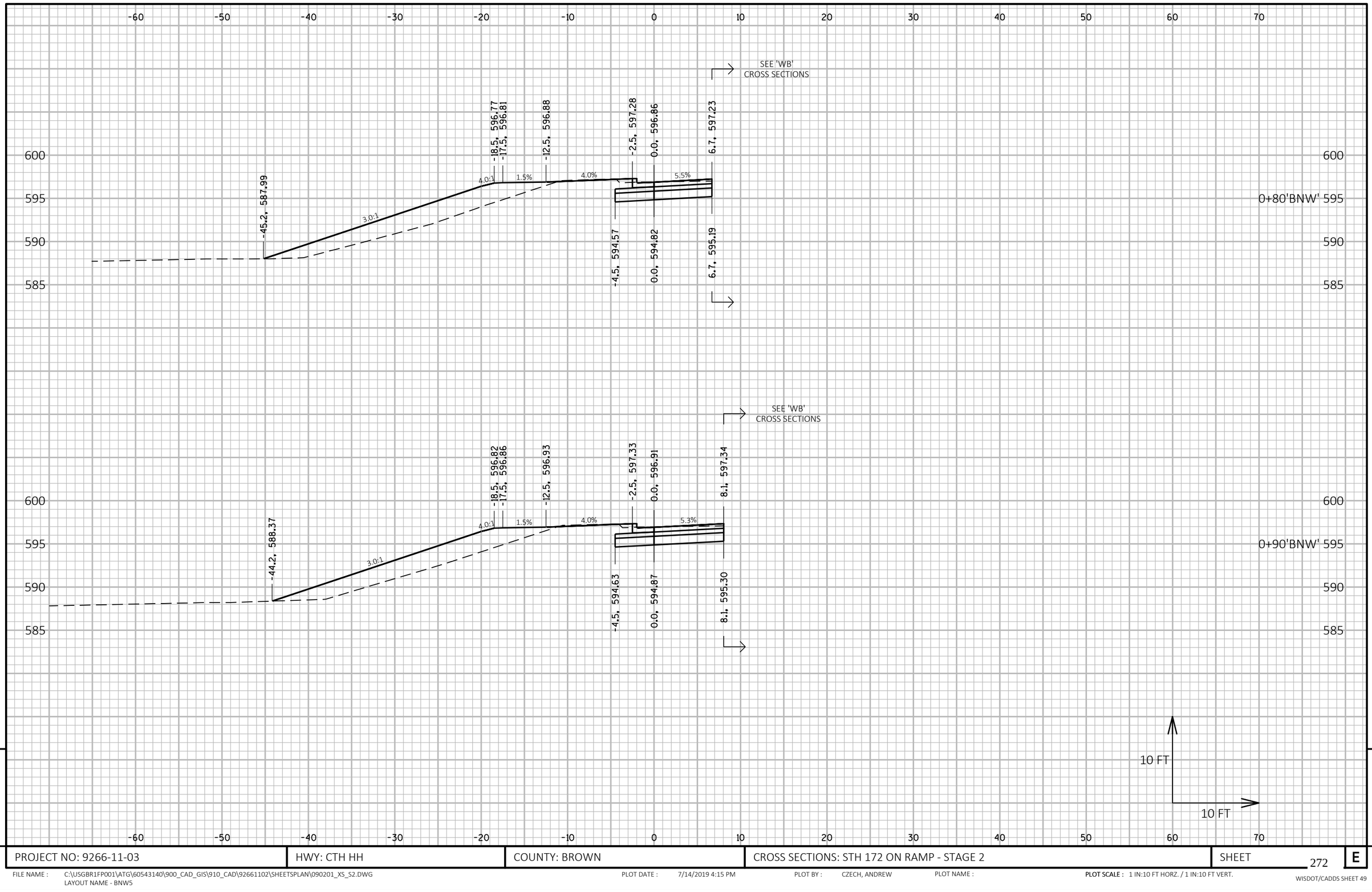


PROJECT NO: 9266-11-03	HWY: CTH HH	COUNTY: BROWN	CROSS SECTIONS: STH 172 ON RAMP - STAGE 2	SHEET 271	E

FILE NAME : C:\USGBR1FP001\ATG\60543140\900_CAD_GIS\910_CAD\92661102\SHEETSPLAN\090201_XS_S2.DWG
LAYOUT NAME - BNW4

PLOT DATE : 7/14/2019 4:15 PM PLOT BY : CZECH, ANDREW PLOT NAME : **PLOT SCALE :** 1 IN:10 FT HORZ. / 1 IN:10 FT VERT.

WISDOT/CADDS SHEET 49

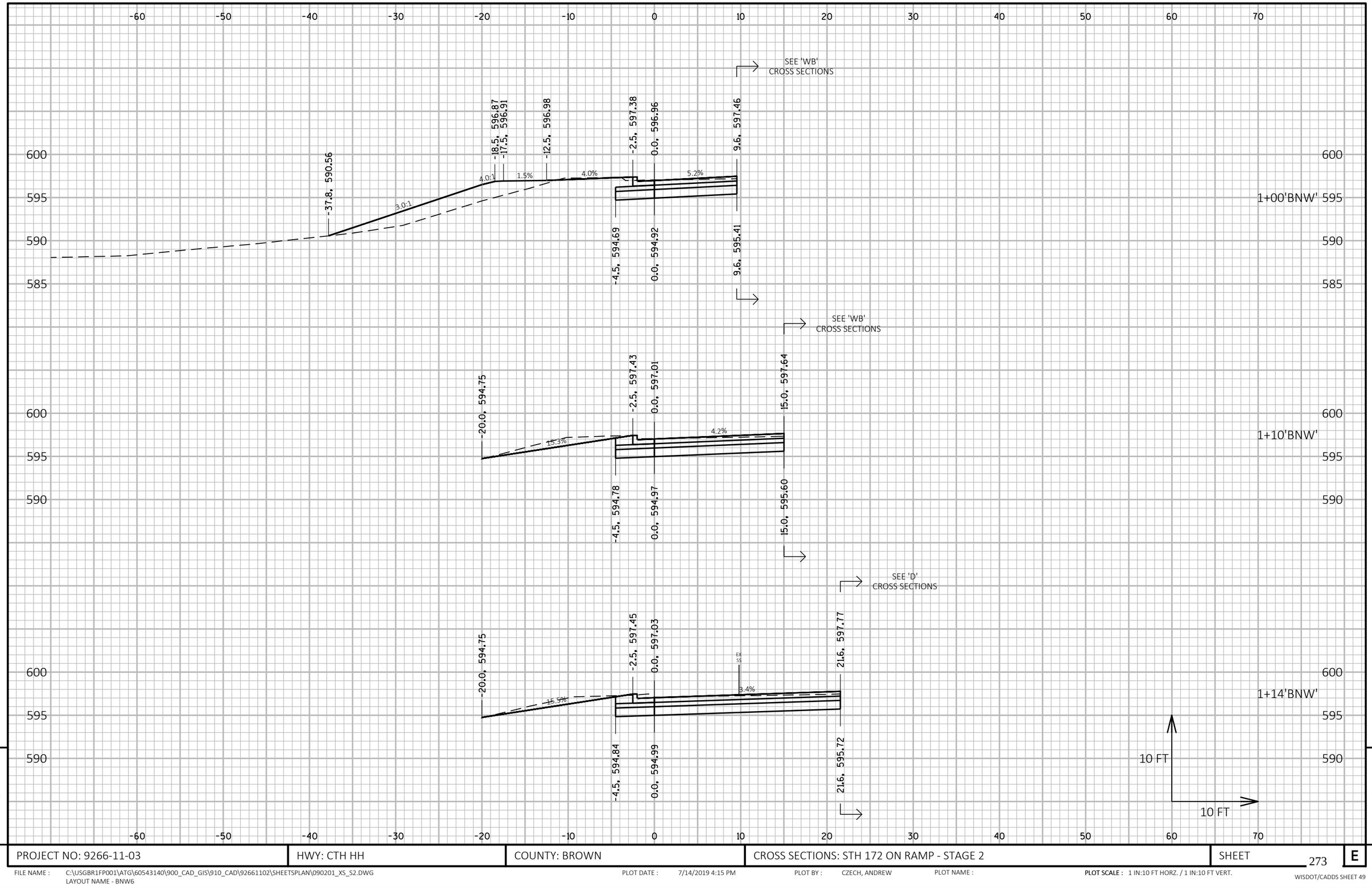


PROJECT NO: 9266-11-03	HWY: CTH HH	COUNTY: BROWN	CROSS SECTIONS: STH 172 ON RAMP - STAGE 2	SHEET 272	E

FILE NAME : C:\USGBR1FP001\ATG\60543140\900_CAD_GIS\910_CAD\92661102\SHEETSPLAN\090201_XS_S2.DWG
LAYOUT NAME - BNW5

PLOT DATE : 7/14/2019 4:15 PM PLOT BY : CZECH, ANDREW PLOT NAME : PLOT SCALE : 1 IN:10 FT HORZ. / 1 IN:10 FT VERT.

WISDOT/CADDS SHEET 49



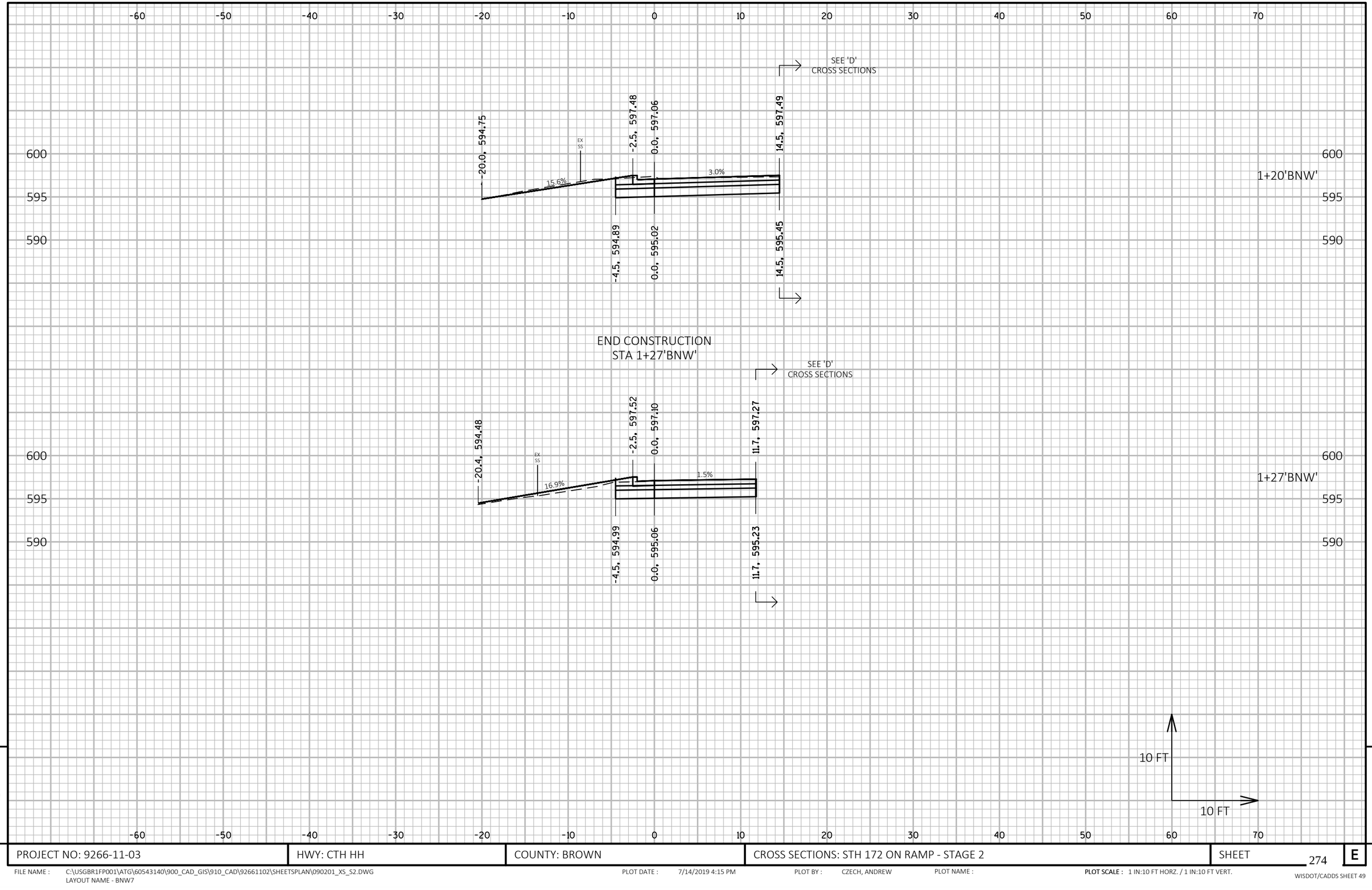
9

9

PROJECT NO: 9266-11-03	HWY: CTH HH	COUNTY: BROWN	CROSS SECTIONS: STH 172 ON RAMP - STAGE 2	SHEET 273	E

FILE NAME : C:\USGBR1FP001\ATG\60543140\900_CAD_GIS\910_CAD\92661102\SHEETSPLAN\090201_XS_S2.DWG
LAYOUT NAME - BNW6

PLOT DATE : 7/14/2019 4:15 PM PLOT BY : CZECH, ANDREW PLOT NAME : **PLOT SCALE :** 1 IN:10 FT HORZ. / 1 IN:10 FT VERT.



PROJECT NO: 9266-11-03	HWY: CTH HH	COUNTY: BROWN	CROSS SECTIONS: STH 172 ON RAMP - STAGE 2	SHEET 274	E

FILE NAME : C:\USGBR1FP001\ATG\60543140\900_CAD_GIS\910_CAD\92661102\SHEETSPLAN\090201_XS_S2.DWG
LAYOUT NAME - BNW7

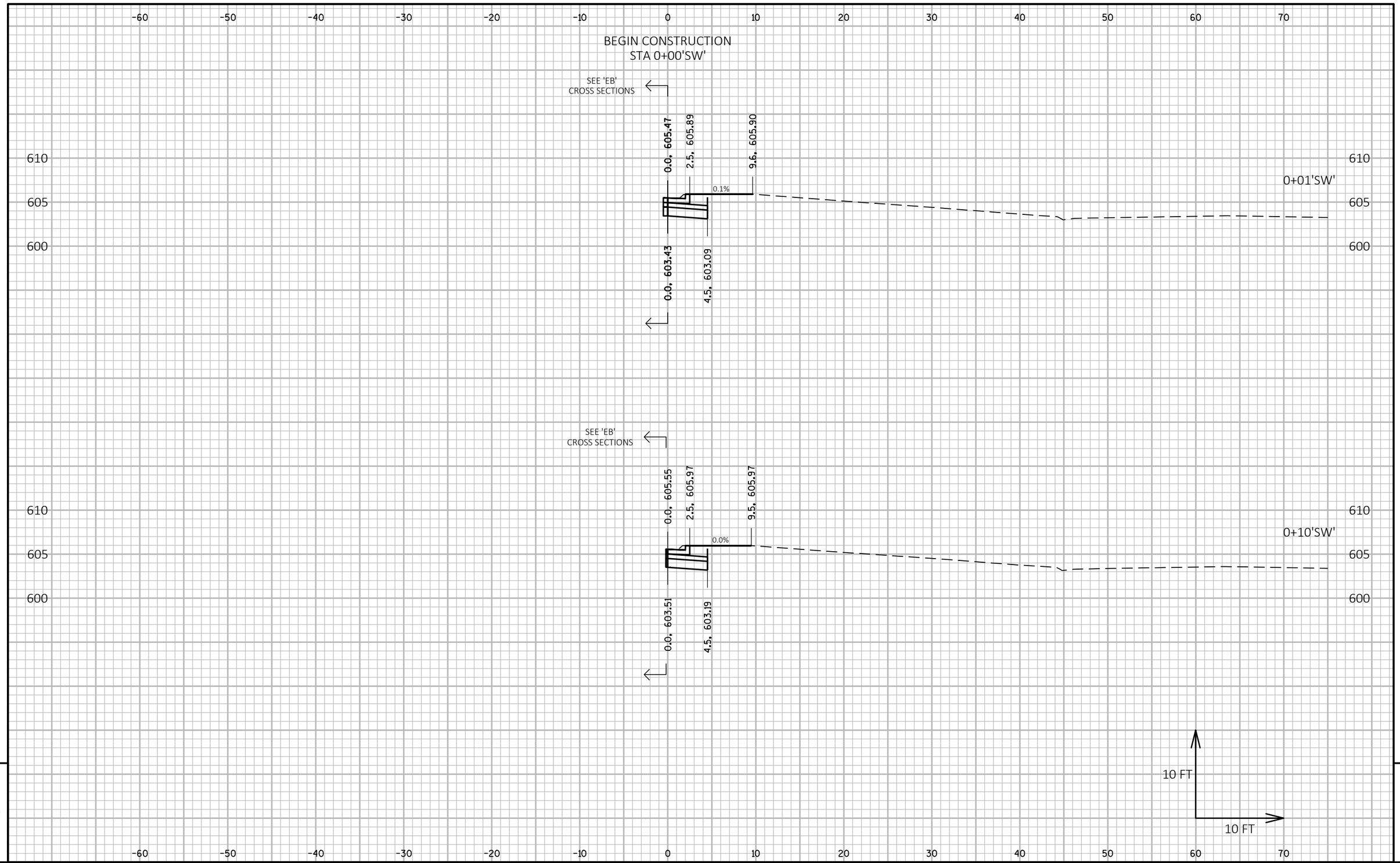
PLOT DATE : 7/14/2019 4:15 PM

PLOT BY : CZECH, ANDREW

PLOT NAME :

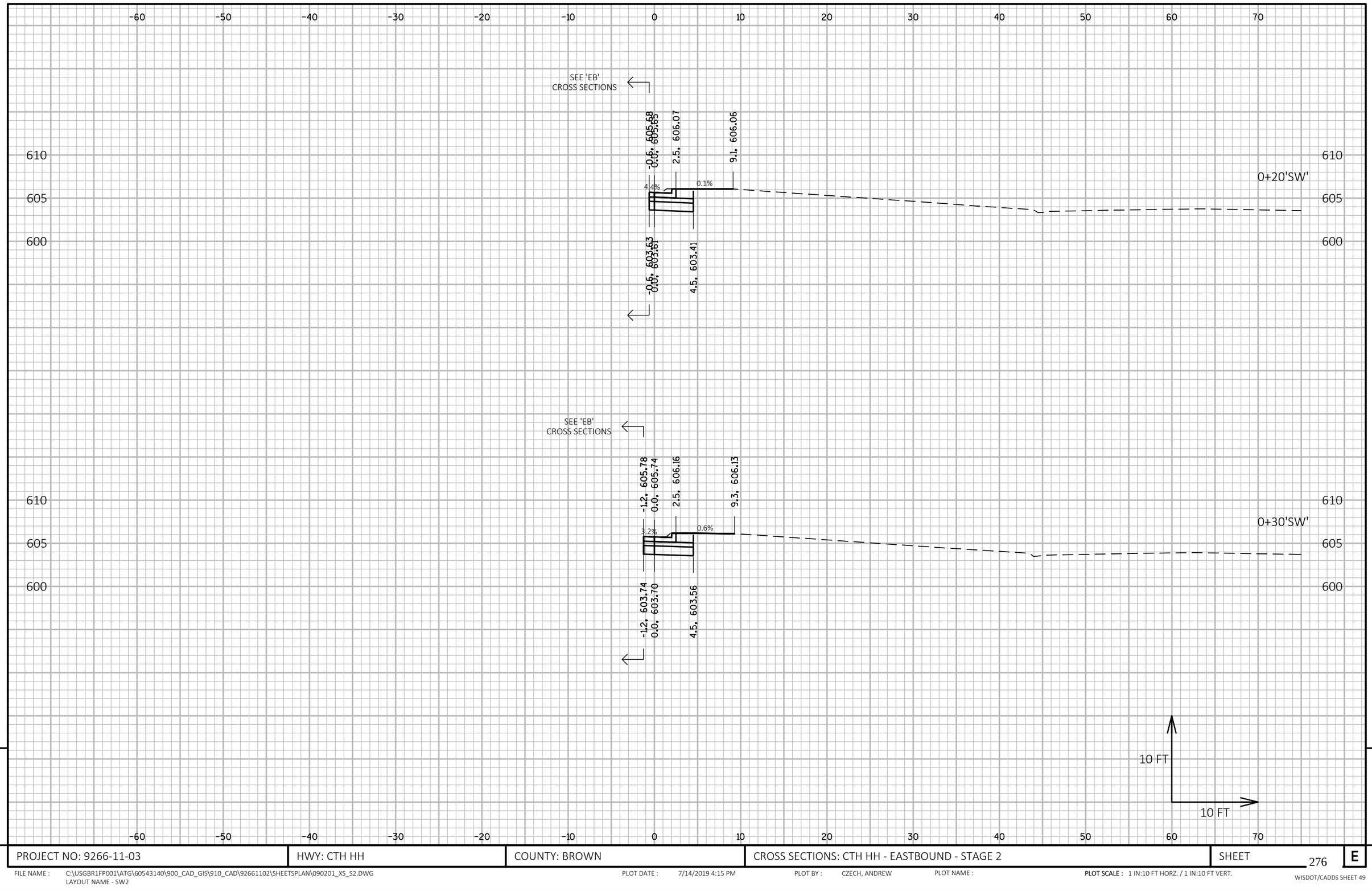
PLOT SCALE : 1 IN:10 FT HORZ. / 1 IN:10 FT VERT.

WISDOT/CADDS SHEET 49



PROJECT NO: 9266-11-03	HWY: CTH HH	COUNTY: BROWN	CROSS SECTIONS: CTH HH - EASTBOUND - STAGE 2	SHEET 275	E

FILE NAME : C:\USGBR1FP001\ATG\60543140\900_CAD_GIS\910_CAD\92661102\SHEETSPLAN\090201_XS_S2.DWG
LAYOUT NAME - SW1
PLOT DATE : 7/14/2019 4:15 PM
PLOT BY : CZECH, ANDREW
PLOT NAME :
PLOT SCALE : 1 IN:10 FT HORZ. / 1 IN:10 FT VERT.
WISDOT/CADDS SHEET 49

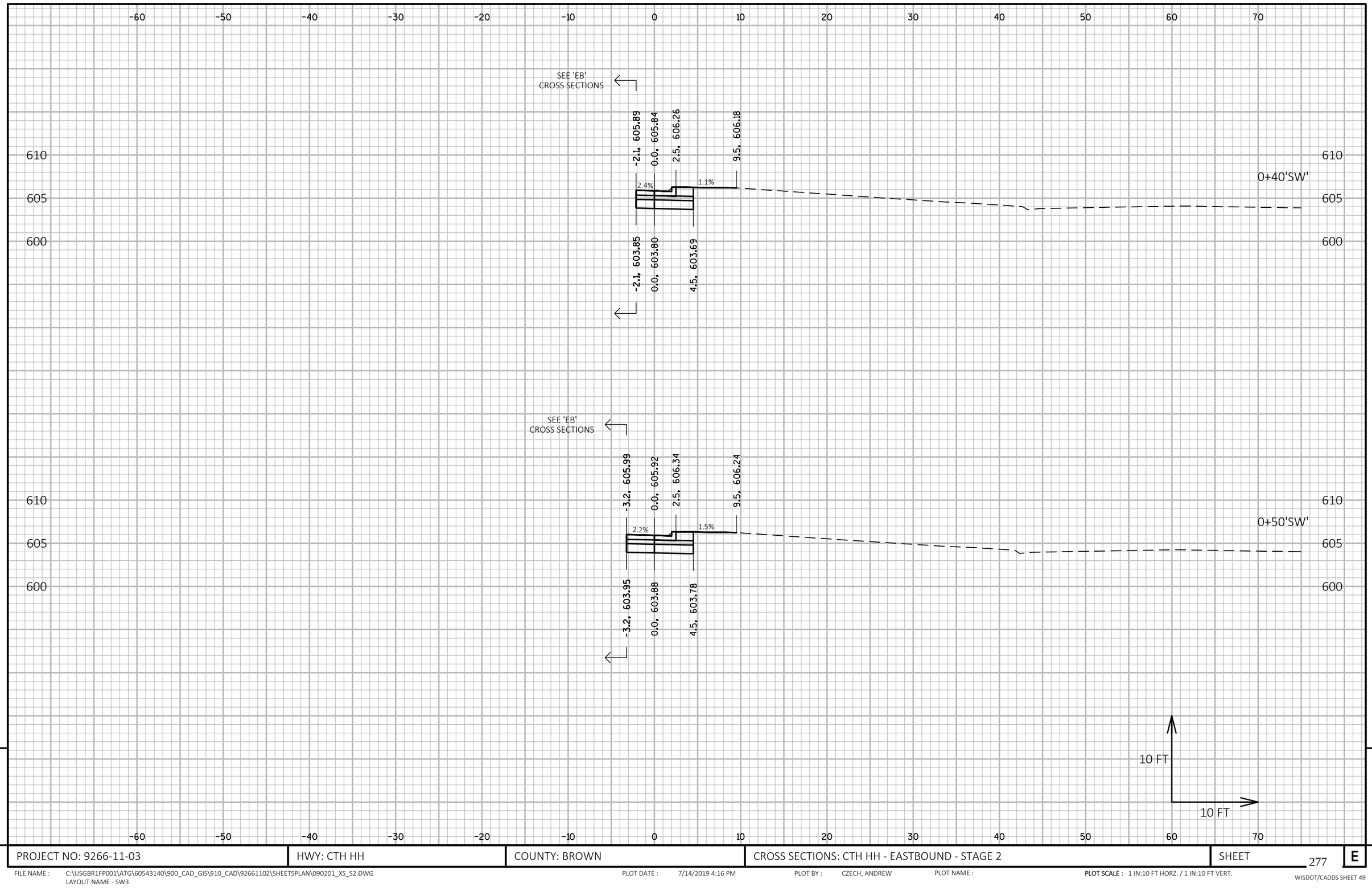


PROJECT NO: 9266-11-03	HWY: CTH HH	COUNTY: BROWN	CROSS SECTIONS: CTH HH - EASTBOUND - STAGE 2	SHEET 276	E

FILE NAME : C:\USGBR1FP001\ATG\60543140\900_CAD_GIS\910_CAD\92661102\SHEETSPLAN\090201_XS_S2.DWG
LAYOUT NAME - SW2

PLOT DATE : 7/14/2019 4:15 PM PLOT BY : CZECH, ANDREW PLOT NAME : **PLOT SCALE :** 1 IN:10 FT HORZ. / 1 IN:10 FT VERT.

WISDOT/CADDS SHEET 49

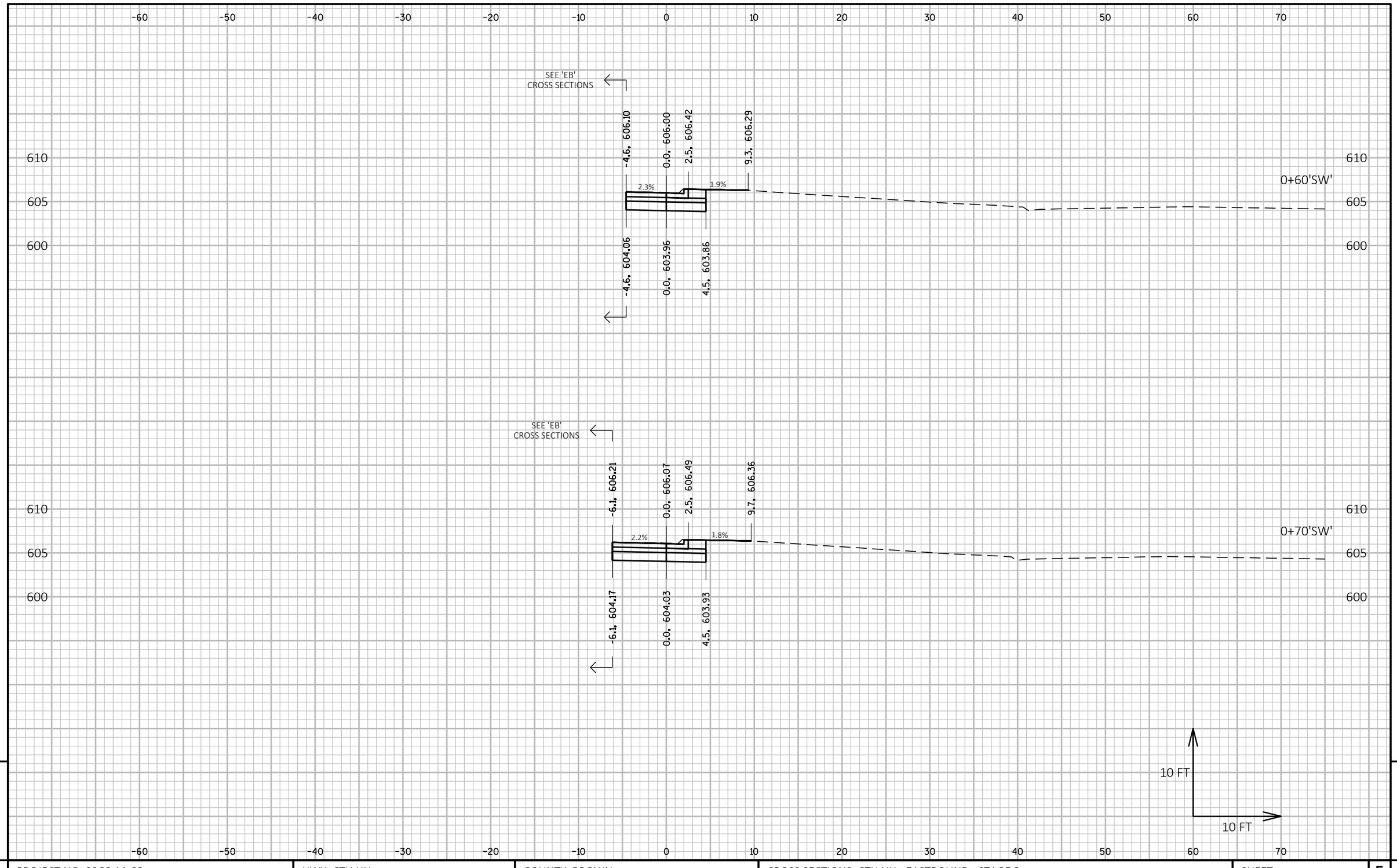


PROJECT NO: 9266-11-03	HWY: CTH HH	COUNTY: BROWN	CROSS SECTIONS: CTH HH - EASTBOUND - STAGE 2	SHEET 277	E

FILE NAME : C:\USGBR1FP001\ATG\60543140\900_CAD_GIS\910_CAD\92661102\SHEETSPLAN\090201_XS_S2.DWG
LAYOUT NAME - SW3

PLOT DATE : 7/14/2019 4:16 PM PLOT BY : CZECH, ANDREW PLOT NAME : **PLOT SCALE :** 1 IN:10 FT HORZ. / 1 IN:10 FT VERT.

WISDOT/CADDS SHEET 49

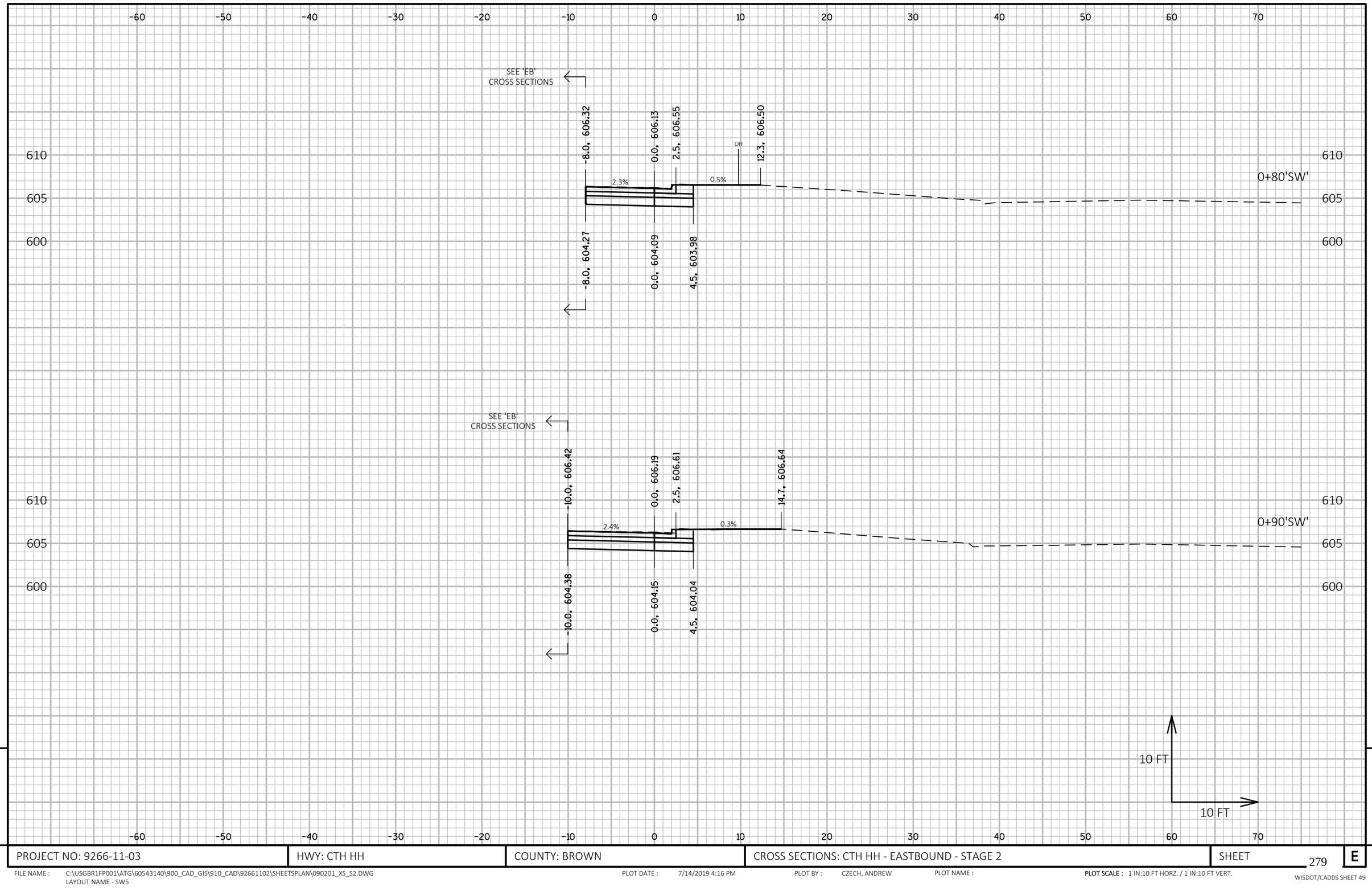


PROJECT NO: 9266-11-03	HWY: CTH HH	COUNTY: BROWN	CROSS SECTIONS: CTH HH - EASTBOUND - STAGE 2	SHEET 278	E

FILE NAME : C:\USGBR1FP001\ATG\60543140\900_CAD_GIS\910_CAD\92661102\SHEETSPLAN\090201_XS_S2.DWG
LAYOUT NAME - SW4

PLOT DATE : 7/14/2019 4:16 PM PLOT BY : CZECH, ANDREW PLOT NAME : **PLOT SCALE :** 1 IN:10 FT HORZ. / 1 IN:10 FT VERT.

WISDOT/CADDS SHEET 49



9

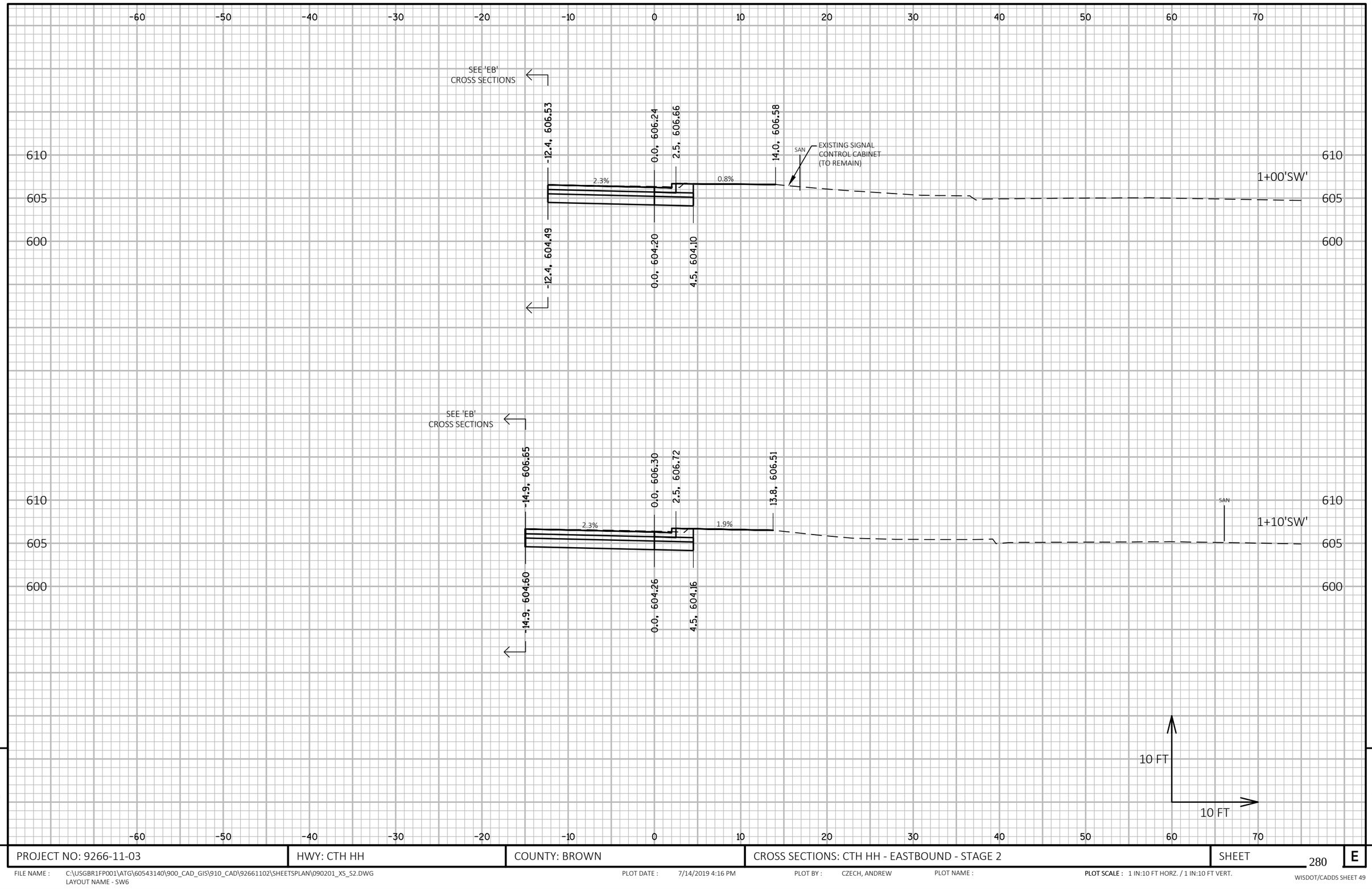
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PROJECT NO: 9266-11-03	HWY: CTH HH	COUNTY: BROWN	CROSS SECTIONS: CTH HH - EASTBOUND - STAGE 2	SHEET 279	E

FILE NAME : C:\USGBR1FP001\ATG\60543140\900_CAD_GIS\910_CAD\92661102\SHEETSPLAN\090201_XS_S2.DWG
LAYOUT NAME - SW5

PLOT DATE : 7/14/2019 4:16 PM PLOT BY : CZECH, ANDREW PLOT NAME : **PLOT SCALE :** 1 IN:10 FT HORZ. / 1 IN:10 FT VERT.

WISDOT/CADDS SHEET 49

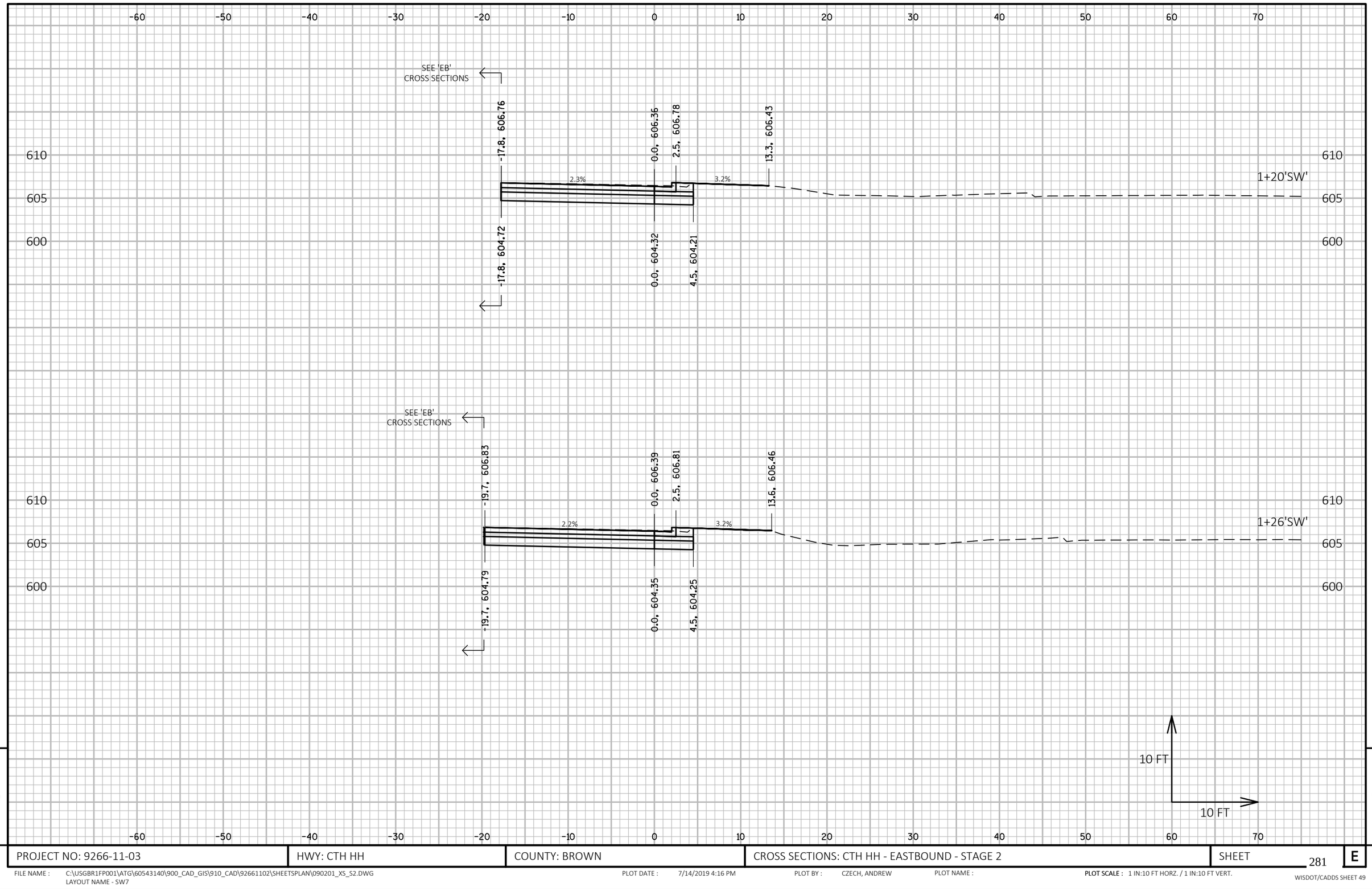


PROJECT NO: 9266-11-03	HWY: CTH HH	COUNTY: BROWN	CROSS SECTIONS: CTH HH - EASTBOUND - STAGE 2	SHEET 280	E

FILE NAME : C:\USGBR1FP001\ATG\60543140\900_CAD_GIS\910_CAD\92661102\SHEETSPLAN\090201_XS_S2.DWG
LAYOUT NAME - SW6

PLOT DATE : 7/14/2019 4:16 PM PLOT BY : CZECH, ANDREW PLOT NAME : **PLOT SCALE :** 1 IN:10 FT HORZ. / 1 IN:10 FT VERT.

WISDOT/CADDS SHEET 49



9

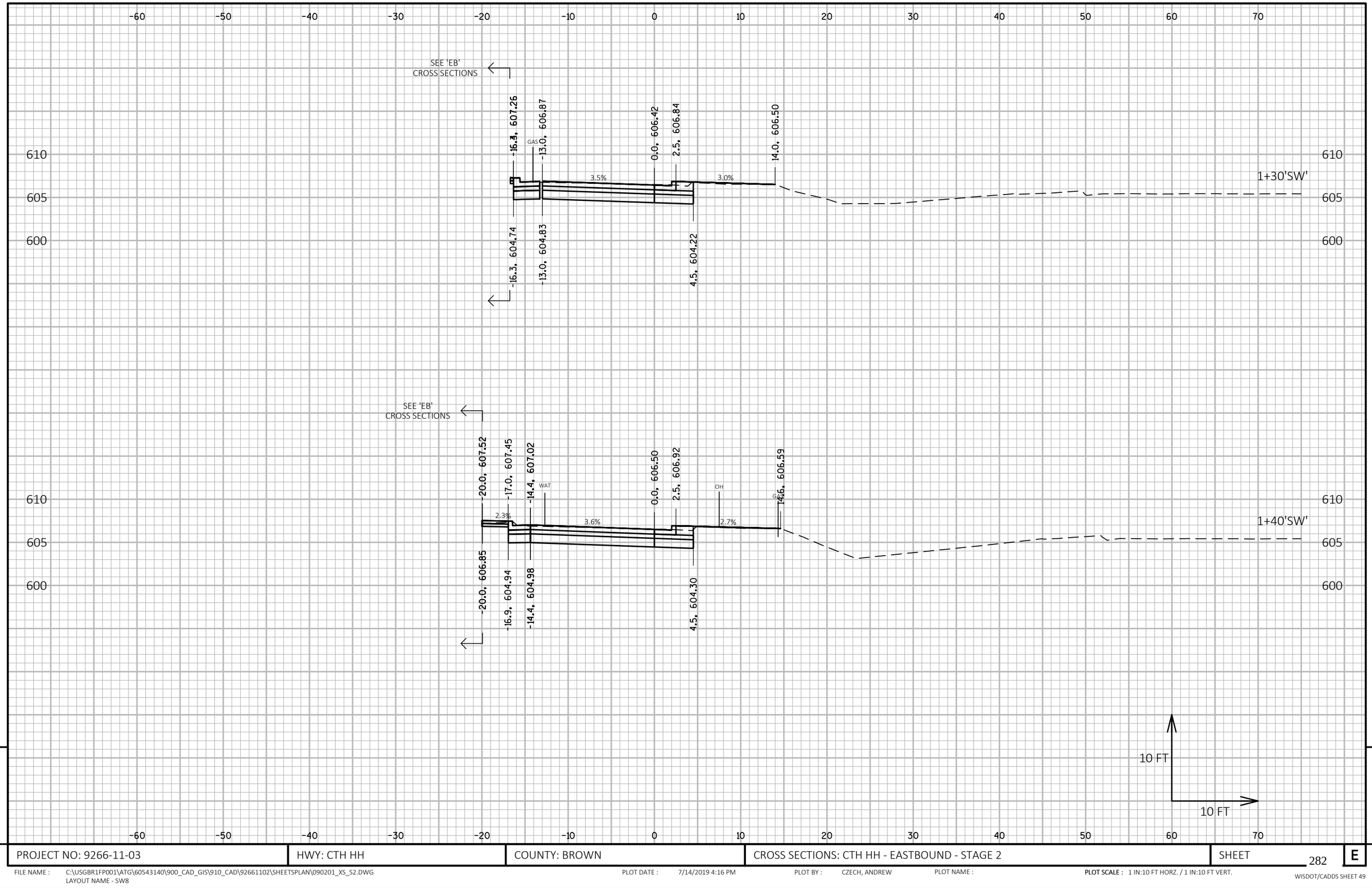
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PROJECT NO: 9266-11-03	HWY: CTH HH	COUNTY: BROWN	CROSS SECTIONS: CTH HH - EASTBOUND - STAGE 2	SHEET 281	E

FILE NAME : C:\USGBR1FP001\ATG\60543140\900_CAD_GIS\910_CAD\92661102\SHEETSPLAN\090201_XS_S2.DWG
LAYOUT NAME - SW7

PLOT DATE : 7/14/2019 4:16 PM PLOT BY : CZECH, ANDREW PLOT NAME : **PLOT SCALE :** 1 IN:10 FT HORZ. / 1 IN:10 FT VERT.

WISDOT/CADDS SHEET 49

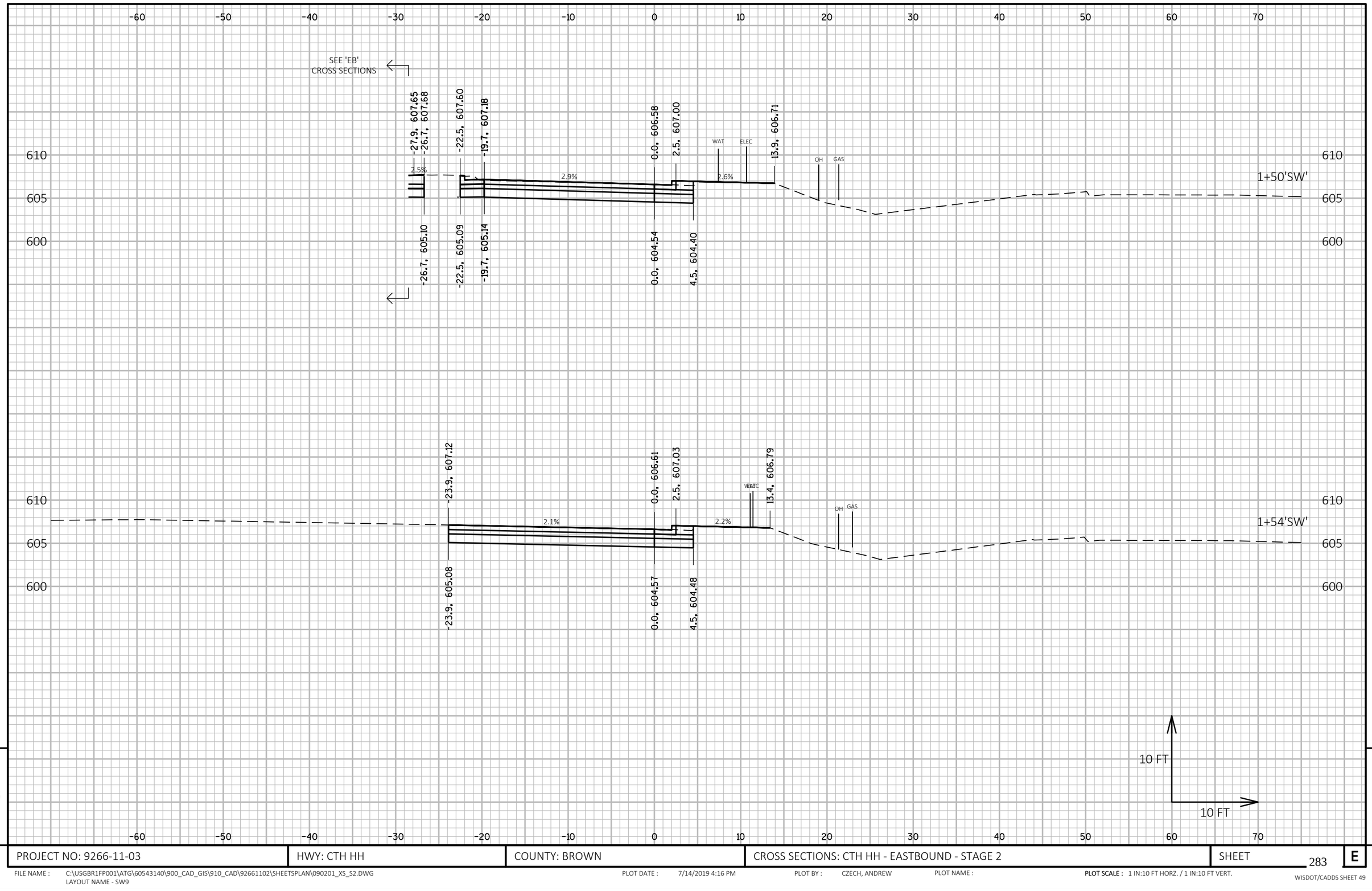


PROJECT NO: 9266-11-03	HWY: CTH HH	COUNTY: BROWN	CROSS SECTIONS: CTH HH - EASTBOUND - STAGE 2	SHEET 282	E

FILE NAME : C:\USGBR1FP001\ATG\60543140\900_CAD_GIS\910_CAD\92661102\SHEETSPLAN\090201_XS_S2.DWG
LAYOUT NAME - SW8

PLOT DATE : 7/14/2019 4:16 PM PLOT BY : CZECH, ANDREW PLOT NAME : PLOT SCALE : 1 IN:10 FT HORZ. / 1 IN:10 FT VERT.

WISDOT/CADDS SHEET 49



9

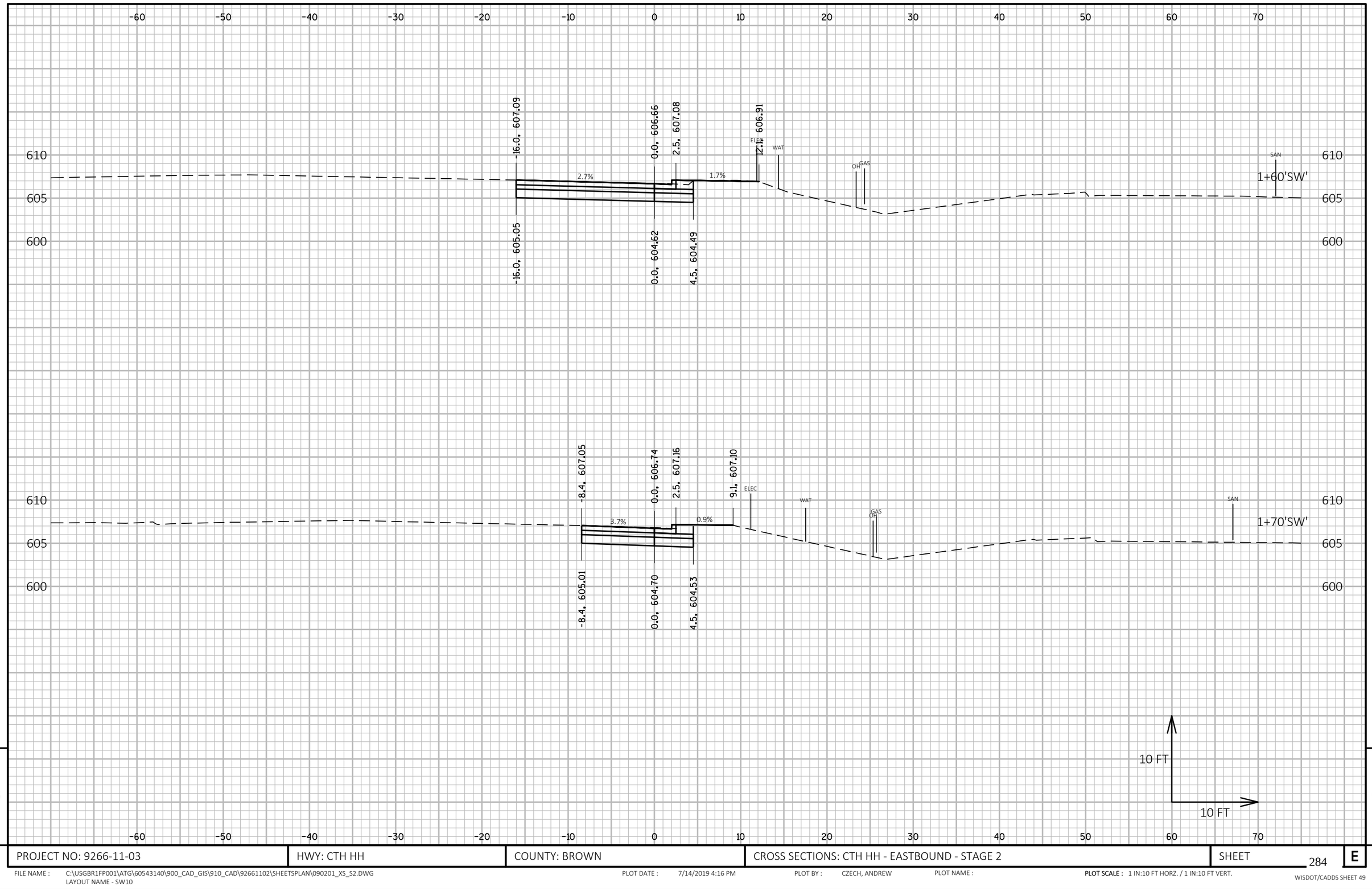
9

PROJECT NO: 9266-11-03	HWY: CTH HH	COUNTY: BROWN	CROSS SECTIONS: CTH HH - EASTBOUND - STAGE 2	SHEET 283	E

FILE NAME : C:\USGBR1FP001\ATG\60543140\900_CAD_GIS\910_CAD\92661102\SHEETSPLAN\090201_XS_S2.DWG
LAYOUT NAME - SW9

PLOT DATE : 7/14/2019 4:16 PM PLOT BY : CZECH, ANDREW PLOT NAME : **PLOT SCALE :** 1 IN:10 FT HORZ. / 1 IN:10 FT VERT.

WISDOT/CADDS SHEET 49



9

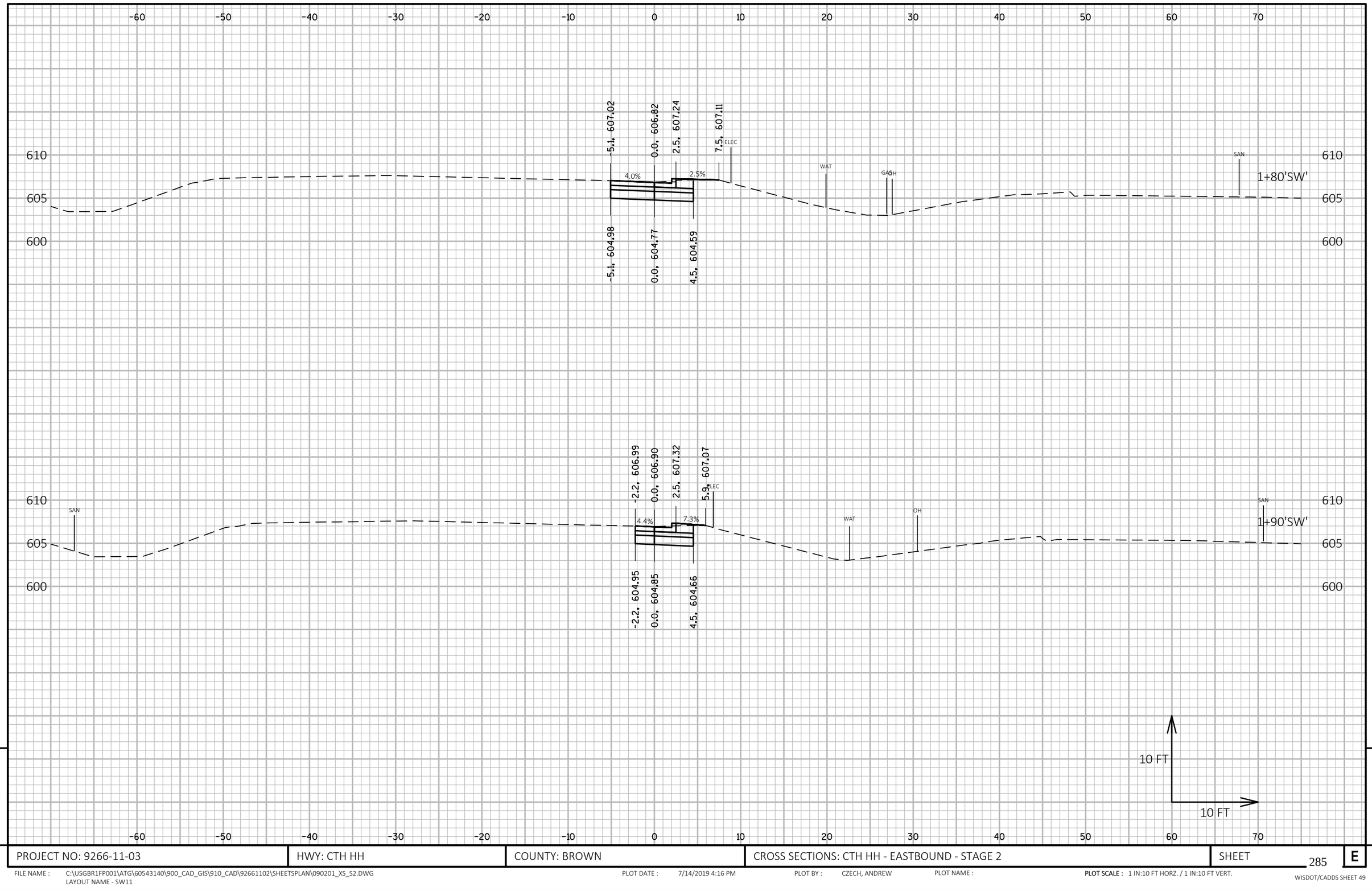
9

PROJECT NO: 9266-11-03	HWY: CTH HH	COUNTY: BROWN	CROSS SECTIONS: CTH HH - EASTBOUND - STAGE 2	SHEET 284	E

FILE NAME : C:\USGBR1FP001\ATG\60543140\900_CAD_GIS\910_CAD\92661102\SHEETSPLAN\090201_XS_S2.DWG
LAYOUT NAME - SW10

PLOT DATE : 7/14/2019 4:16 PM PLOT BY : CZECH, ANDREW PLOT NAME : **PLOT SCALE :** 1 IN:10 FT HORZ. / 1 IN:10 FT VERT.

WISDOT/CADDS SHEET 49



9

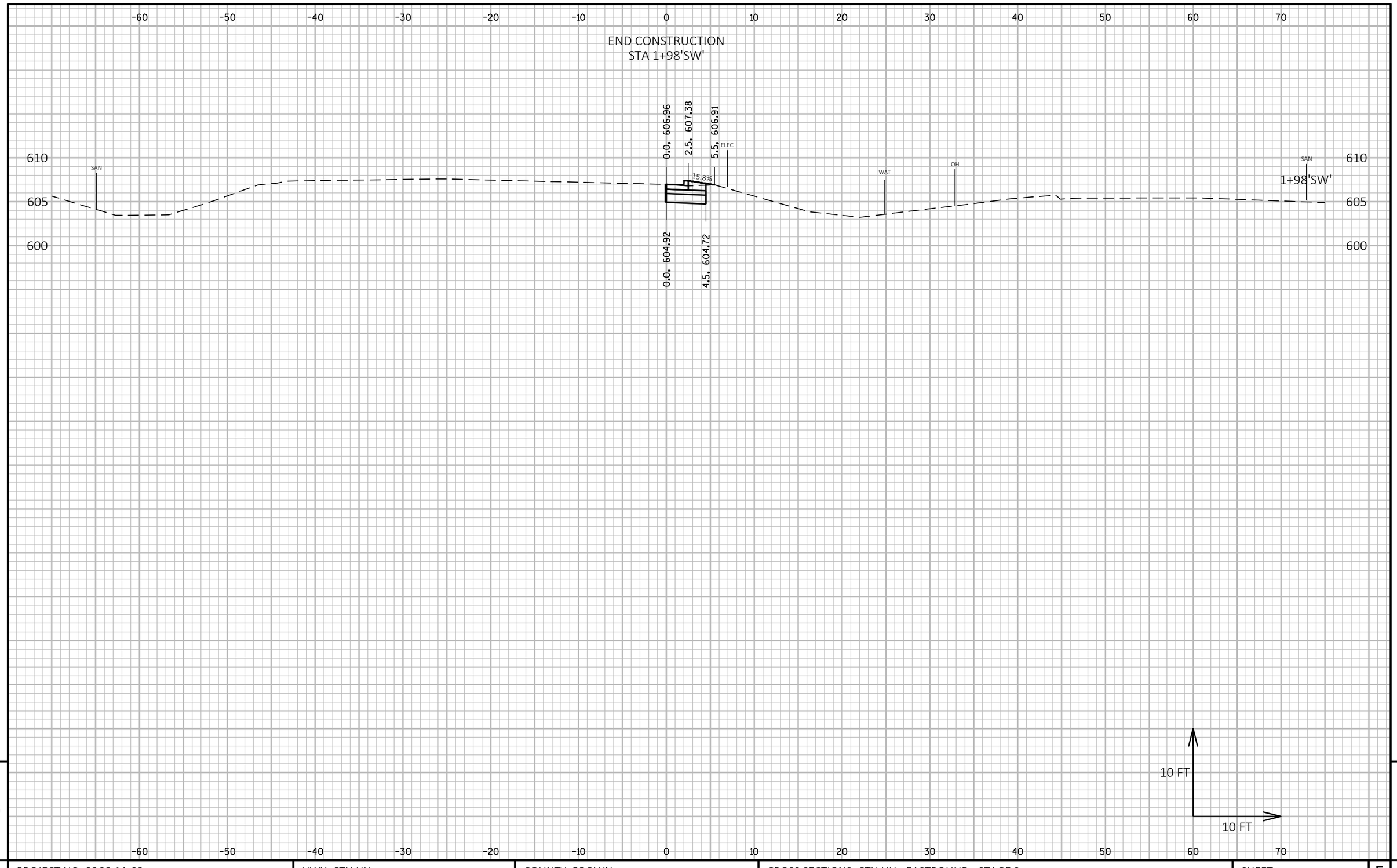
9

PROJECT NO: 9266-11-03	HWY: CTH HH	COUNTY: BROWN	CROSS SECTIONS: CTH HH - EASTBOUND - STAGE 2	SHEET 285	E

FILE NAME : C:\USGBR1FP001\ATG\60543140\900_CAD_GIS\910_CAD\92661102\SHEETSPLAN\090201_XS_S2.DWG
LAYOUT NAME - SW11

PLOT DATE : 7/14/2019 4:16 PM PLOT BY : CZECH, ANDREW PLOT NAME : **PLOT SCALE :** 1 IN:10 FT HORZ. / 1 IN:10 FT VERT.

WISDOT/CADDS SHEET 49



9

PROJECT NO: 9266-11-03	HWY: CTH HH	COUNTY: BROWN	CROSS SECTIONS: CTH HH - EASTBOUND - STAGE 2	SHEET 286	E

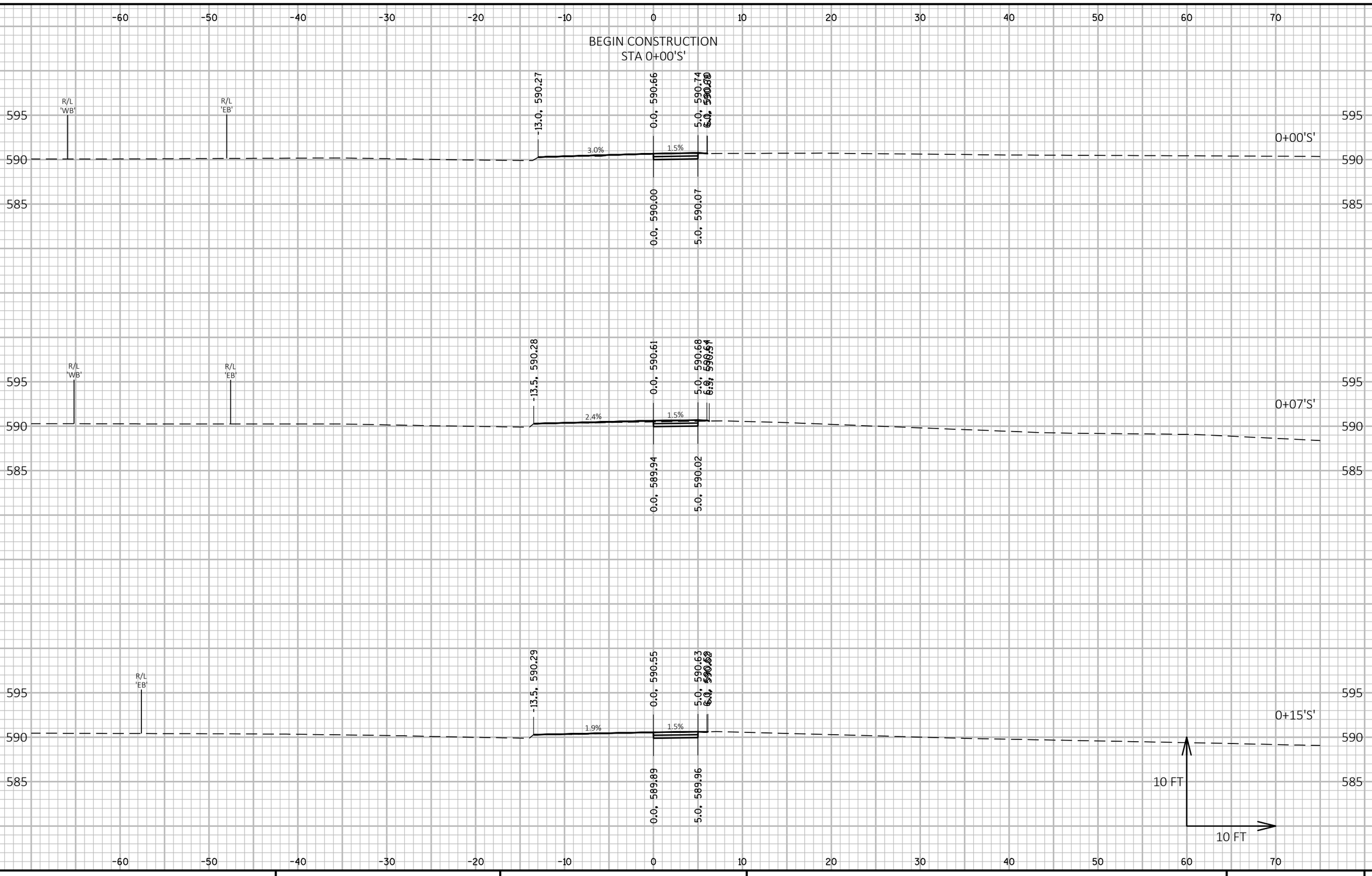
9

FILE NAME : C:\USGBR1FP001\ATG\60543140\900_CAD_GIS\910_CAD\92661102\SHEETSPLAN\090201_XS_S2.DWG
LAYOUT NAME - SW12

PLOT DATE : 7/14/2019 4:16 PM PLOT BY : CZECH, ANDREW PLOT NAME : **PLOT SCALE :** 1 IN:10 FT HORZ. / 1 IN:10 FT VERT.

WISDOT/CADDS SHEET 49

BEGIN CONSTRUCTION
STA 0+00'S'

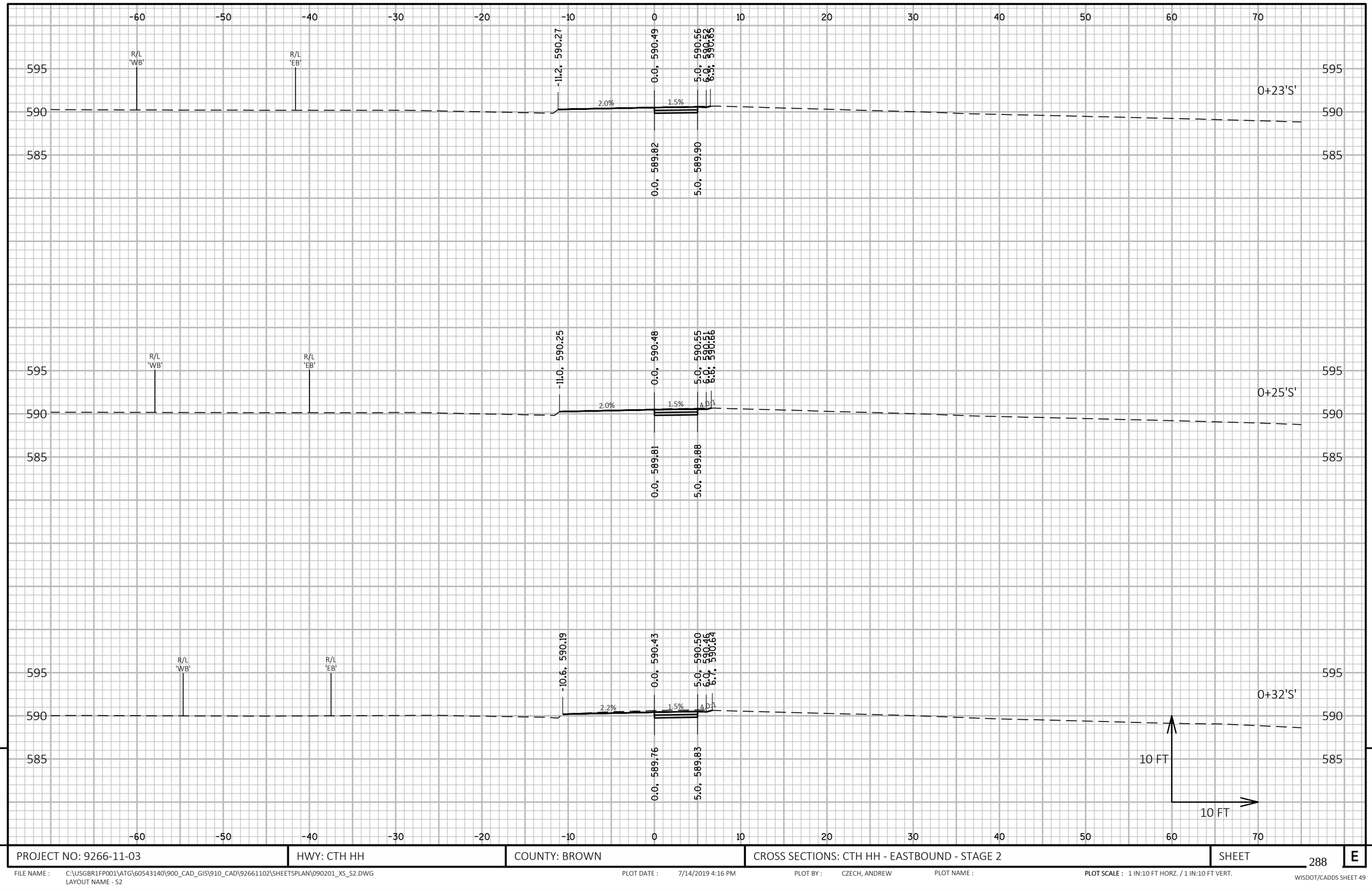


PROJECT NO: 9266-11-03	HWY: CTH HH	COUNTY: BROWN	CROSS SECTIONS: CTH HH - EASTBOUND - STAGE 2	SHEET 287	E

FILE NAME : C:\USGBR1FP001\ATG\60543140\900_CAD_GIS\910_CAD\92661102\SHEETSPLAN\090201_XS_S2.DWG
LAYOUT NAME - S1

PLOT DATE : 7/14/2019 4:16 PM PLOT BY : CZECH, ANDREW PLOT NAME : **PLOT SCALE :** 1 IN:10 FT HORZ. / 1 IN:10 FT VERT.

WISDOT/CADDS SHEET 49



9

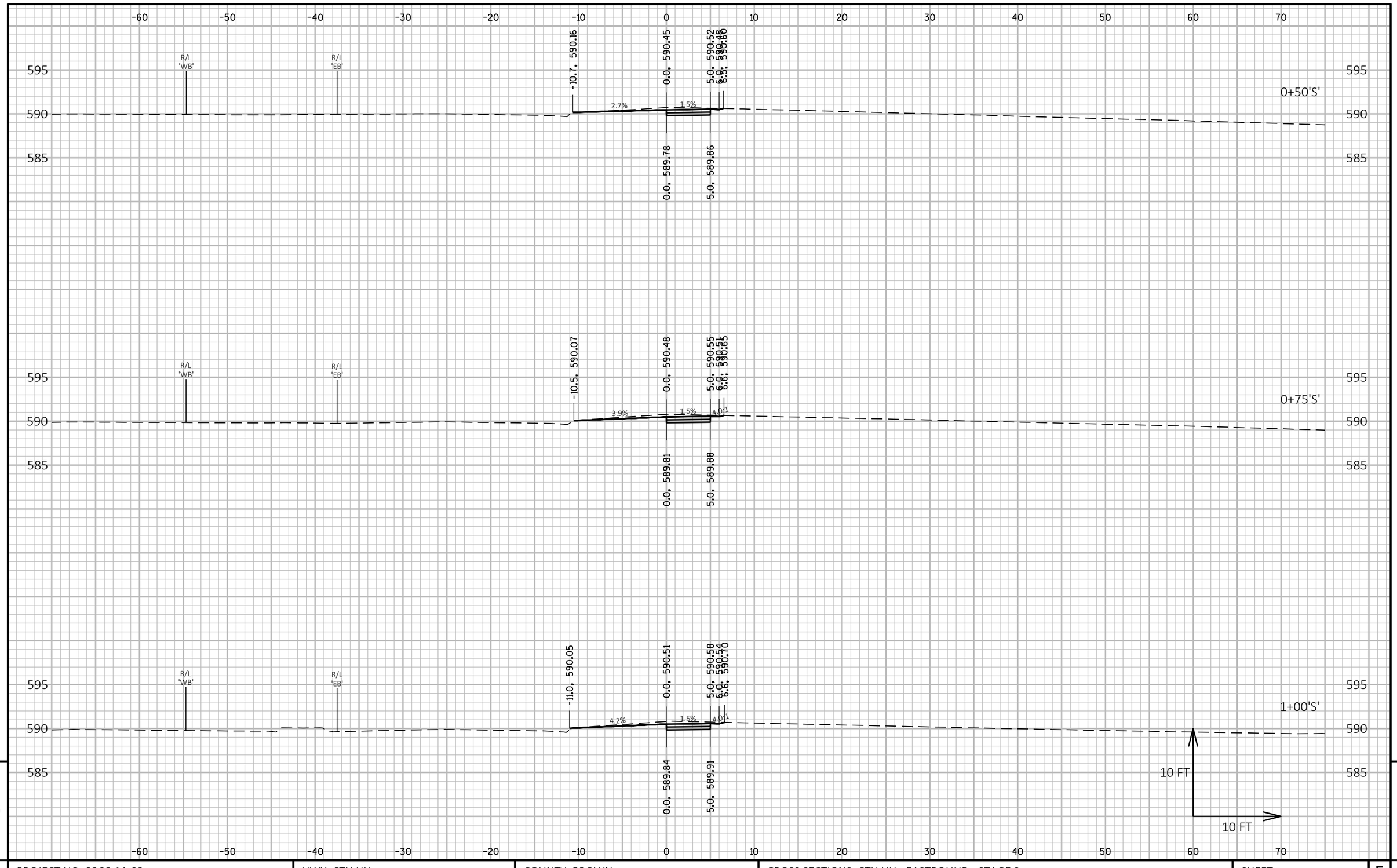
PROJECT NO: 9266-11-03	HWY: CTH HH	COUNTY: BROWN	CROSS SECTIONS: CTH HH - EASTBOUND - STAGE 2	SHEET 288	E

9

FILE NAME : C:\USGBR1FP001\ATG\60543140\900_CAD_GIS\910_CAD\92661102\SHEETSPLAN\090201_XS_S2.DWG
LAYOUT NAME - S2

PLOT DATE : 7/14/2019 4:16 PM PLOT BY : CZECH, ANDREW PLOT NAME : **PLOT SCALE :** 1 IN:10 FT HORZ. / 1 IN:10 FT VERT.

WISDOT/CADDS SHEET 49

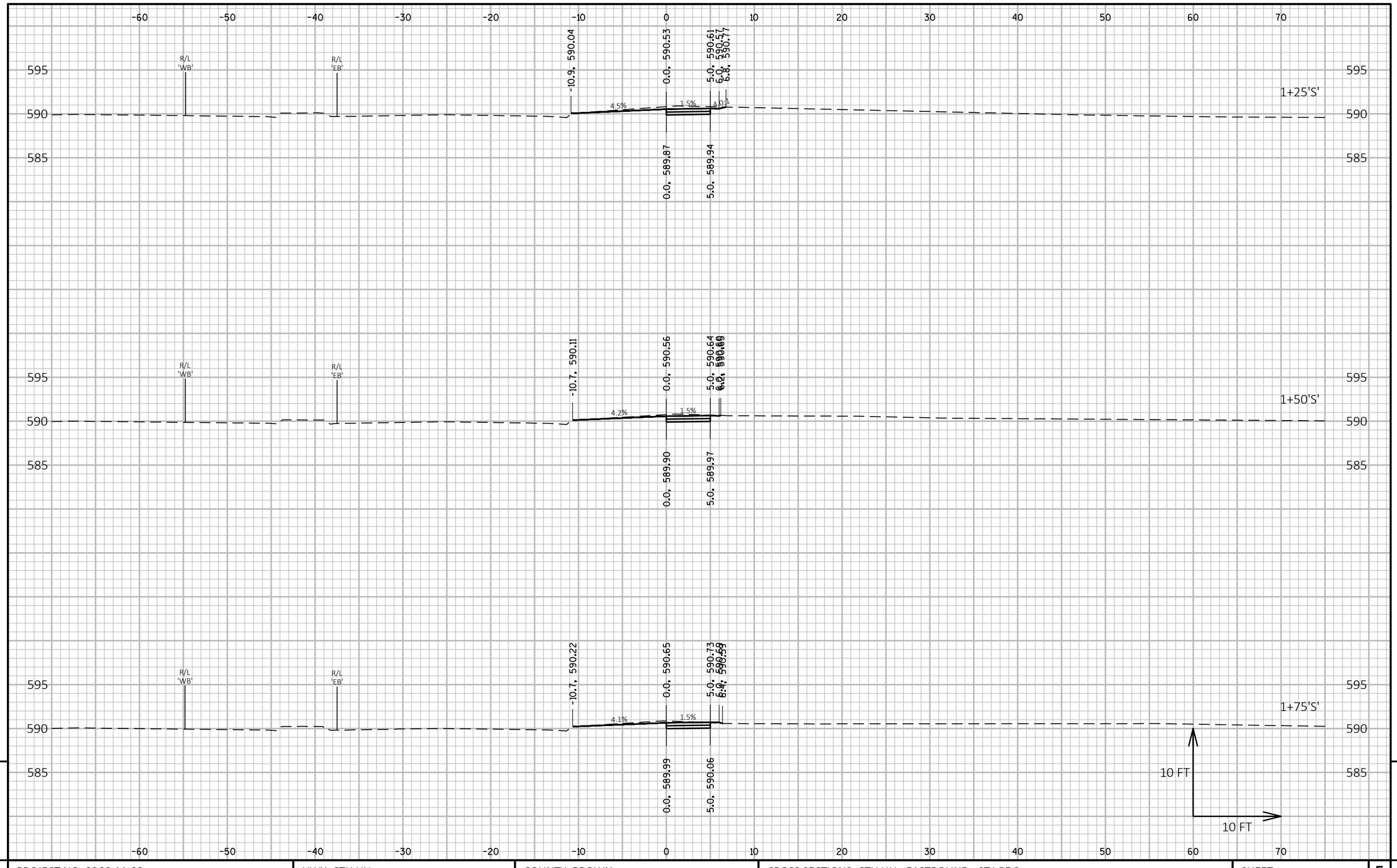


PROJECT NO: 9266-11-03	HWY: CTH HH	COUNTY: BROWN	CROSS SECTIONS: CTH HH - EASTBOUND - STAGE 2	SHEET 289	E

FILE NAME : C:\USGBR1FP001\ATG\60543140\900_CAD_GIS\910_CAD\92661102\SHEETSPLAN\090201_XS_S2.DWG
LAYOUT NAME - S3

PLOT DATE : 7/14/2019 4:17 PM PLOT BY : CZECH, ANDREW PLOT NAME : **PLOT SCALE :** 1 IN:10 FT HORZ. / 1 IN:10 FT VERT.

WISDOT/CADDS SHEET 49

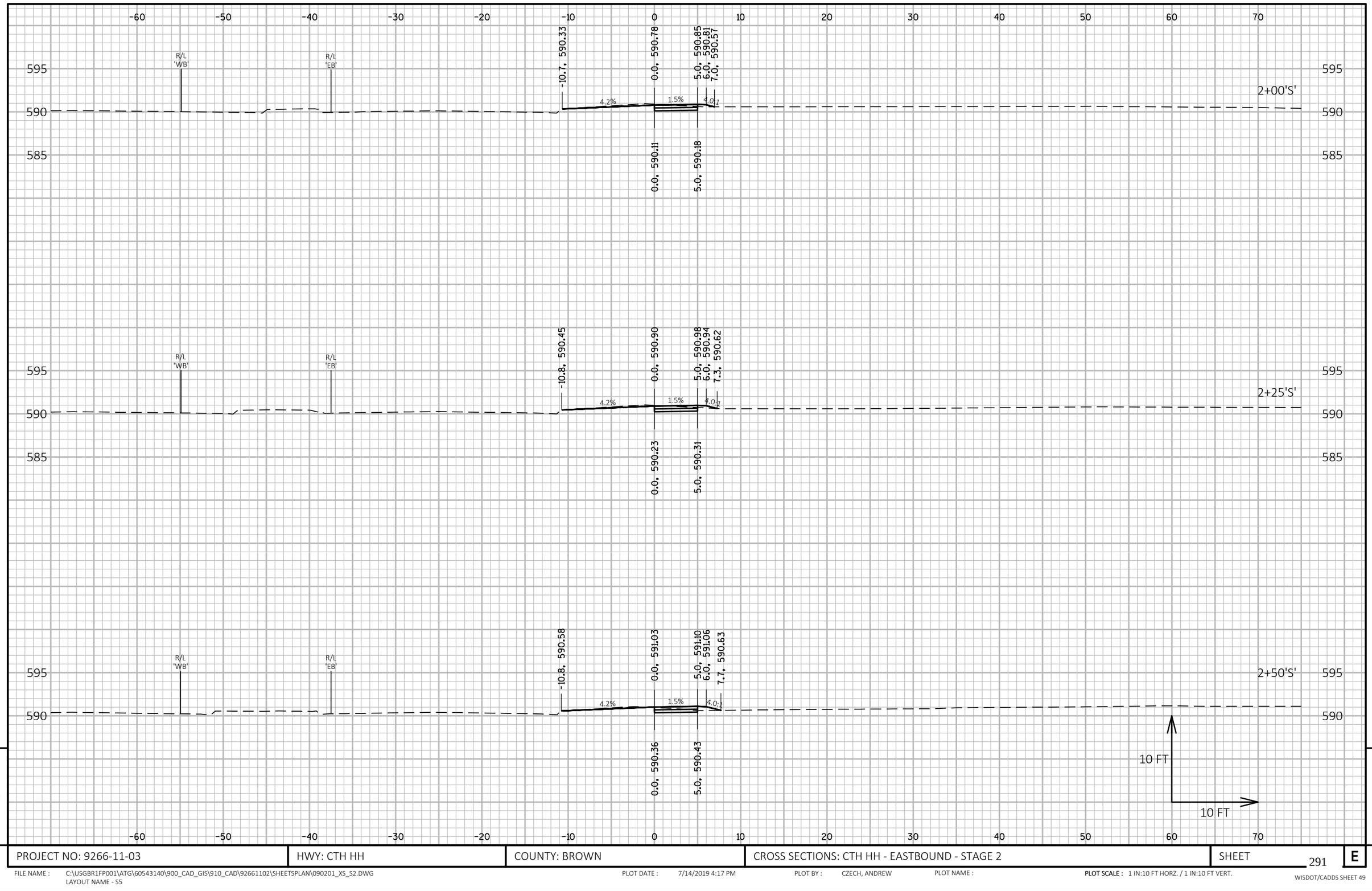


PROJECT NO: 9266-11-03	HWY: CTH HH	COUNTY: BROWN	CROSS SECTIONS: CTH HH - EASTBOUND - STAGE 2	SHEET 290	E

FILE NAME : C:\USGBR1FP001\ATG\60543140\900_CAD_GIS\910_CAD\92661102\SHEETSPLAN\090201_XS_S2.DWG
LAYOUT NAME - S4

PLOT DATE : 7/14/2019 4:17 PM PLOT BY : CZECH, ANDREW PLOT NAME : **PLOT SCALE :** 1 IN:10 FT HORZ. / 1 IN:10 FT VERT.

WISDOT/CADDS SHEET 49



9

9

PROJECT NO: 9266-11-03	HWY: CTH HH	COUNTY: BROWN	CROSS SECTIONS: CTH HH - EASTBOUND - STAGE 2	SHEET 291	E

FILE NAME : C:\USGBR1FP001\ATG\60543140\900_CAD_GIS\910_CAD\92661102\SHEETSPLAN\090201_XS_S2.DWG
LAYOUT NAME - S5

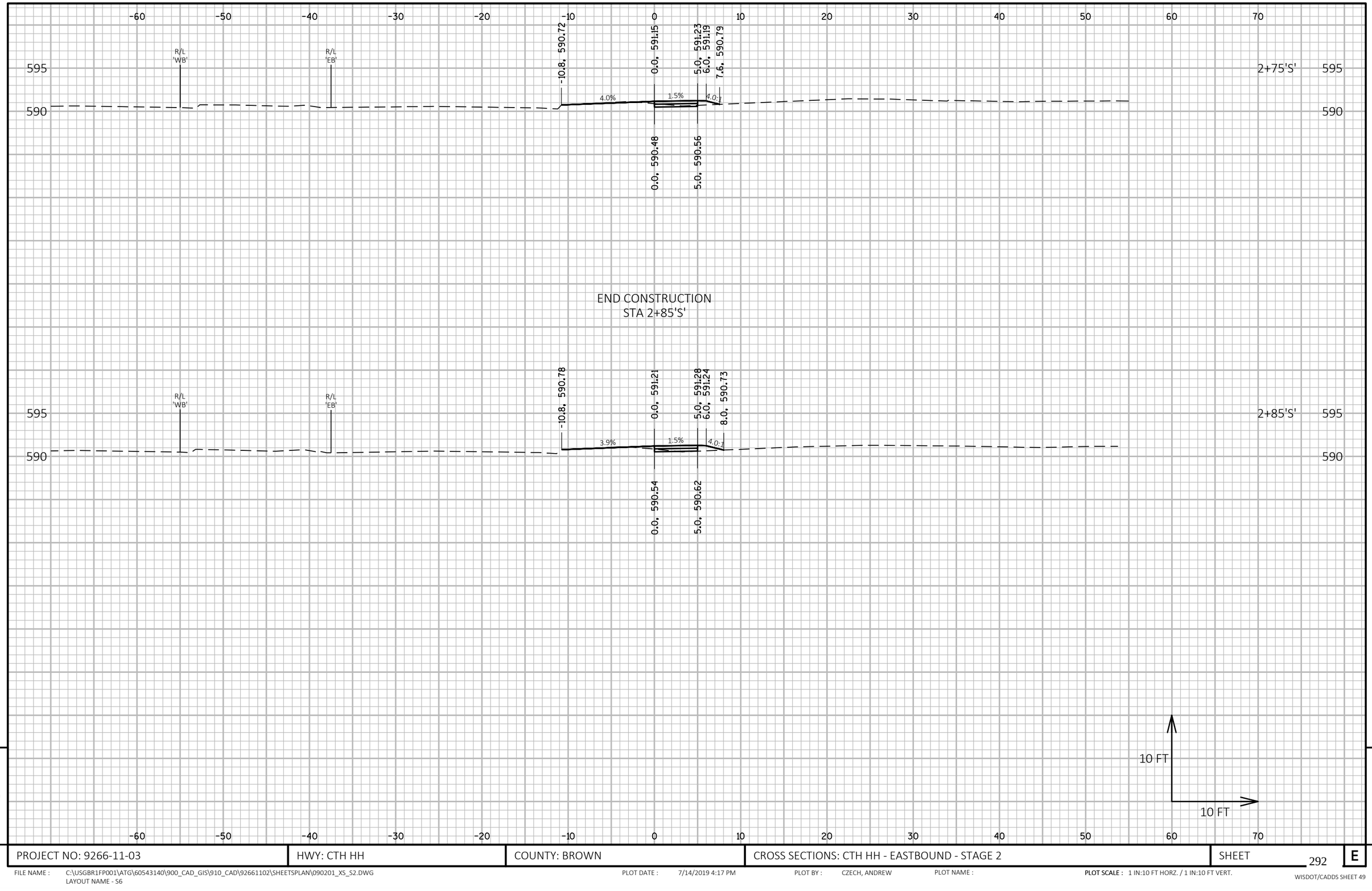
PLOT DATE : 7/14/2019 4:17 PM

PLOT BY : CZECH, ANDREW

PLOT NAME :

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

WISDOT/CADDS SHEET 49



9

9

PROJECT NO: 9266-11-03	HWY: CTH HH	COUNTY: BROWN	CROSS SECTIONS: CTH HH - EASTBOUND - STAGE 2	SHEET 292	E

FILE NAME : C:\USGBR1FP001\ATG\60543140\900_CAD_GIS\910_CAD\92661102\SHEETSPLAN\090201_XS_S2.DWG
LAYOUT NAME - S6

PLOT DATE : 7/14/2019 4:17 PM PLOT BY : CZECH, ANDREW PLOT NAME : **PLOT SCALE :** 1 IN:10 FT HORZ. / 1 IN:10 FT VERT.

WISDOT/CADDS SHEET 49

BEGIN CONSTRUCTION
STA 6+08'WB'

-42.7, 591.22
-42.5, 591.36
-41.5, 591.40
-36.5, 591.33
-26.5, 590.93
-24.0, 590.51
-12.0, 590.75
0.0, 590.51
1.5, 590.97
8.8, 590.67
-28.5, 588.38
-24.0, 588.47
-12.0, 588.71
0.0, 588.47
3.5, 588.40

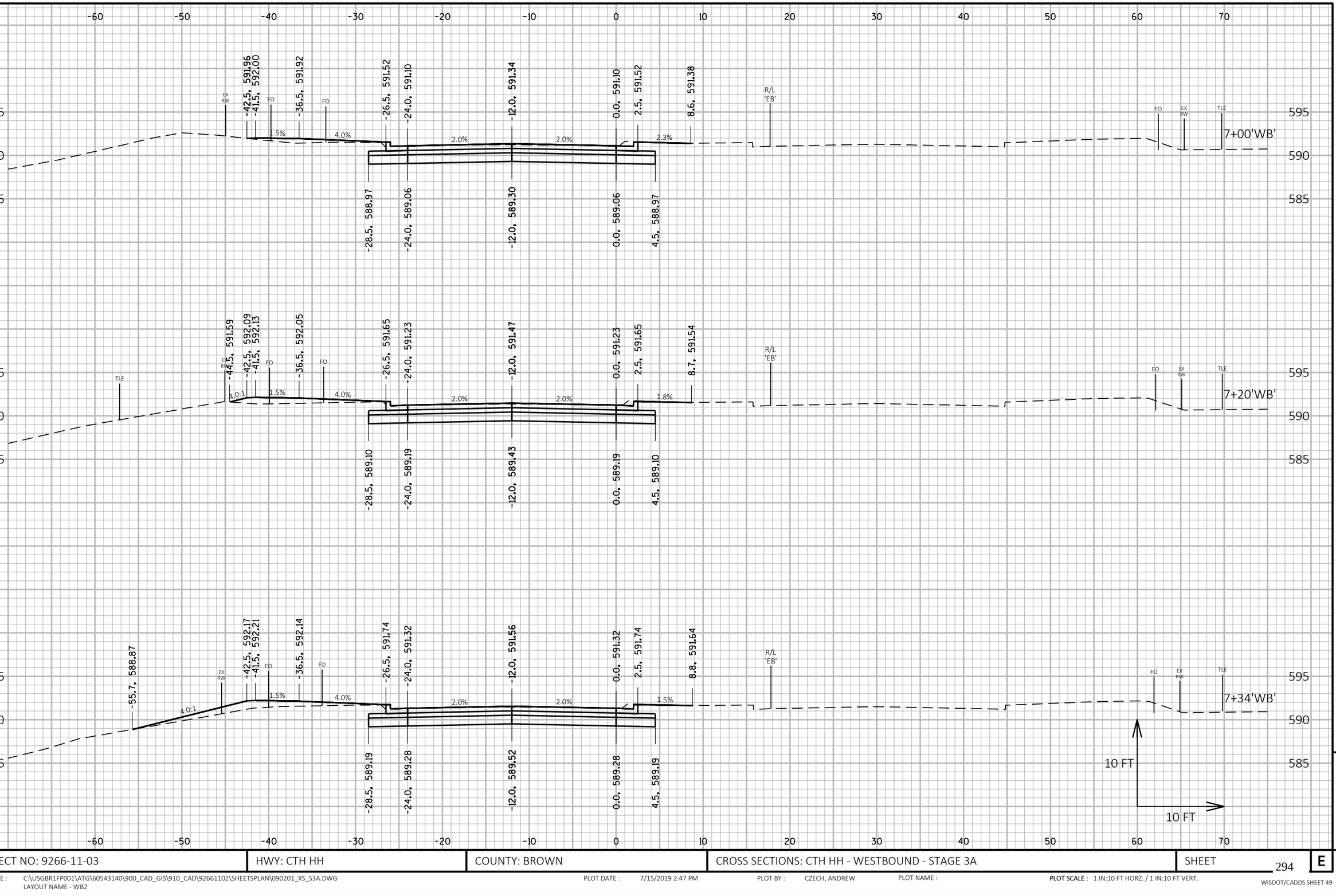
-42.7, 591.60
-42.5, 591.68
-36.5, 591.60
-26.5, 591.20
-24.0, 590.78
-12.0, 591.02
0.0, 590.78
2.1, 591.22
8.6, 590.99
-28.5, 588.65
-24.0, 588.74
-12.0, 588.98
0.0, 588.74
4.1, 588.66

6+08'WB'
6+50'WB'

10 FT
10 FT

PROJECT NO: 9266-11-03	HWY: CTH HH	COUNTY: BROWN	CROSS SECTIONS: CTH HH - WESTBOUND - STAGE 3A	SHEET 293	E

FILE NAME : C:\USGBR1FP001\ATG\60543140\900_CAD_GIS\910_CAD\92661102\SHEETSPLAN\090201_XS_S3A.DWG
LAYOUT NAME - WB1
PLOT DATE : 7/15/2019 2:47 PM
PLOT BY : CZECH, ANDREW
PLOT NAME :
PLOT SCALE : 1 IN:10 FT HORZ. / 1 IN:10 FT VERT.
WISDOT/CADDS SHEET 49



9

9

PROJECT NO: 9266-11-03	HWY: CTH HH	COUNTY: BROWN	CROSS SECTIONS: CTH HH - WESTBOUND - STAGE 3A	SHEET 294	E

FILE NAME : C:\USGBR1FP001\ATG\60543140\900_CAD_GIS\910_CAD\92661102\SHEETSPLAN\090201_XS_S3A.DWG
LAYOUT NAME - WB2

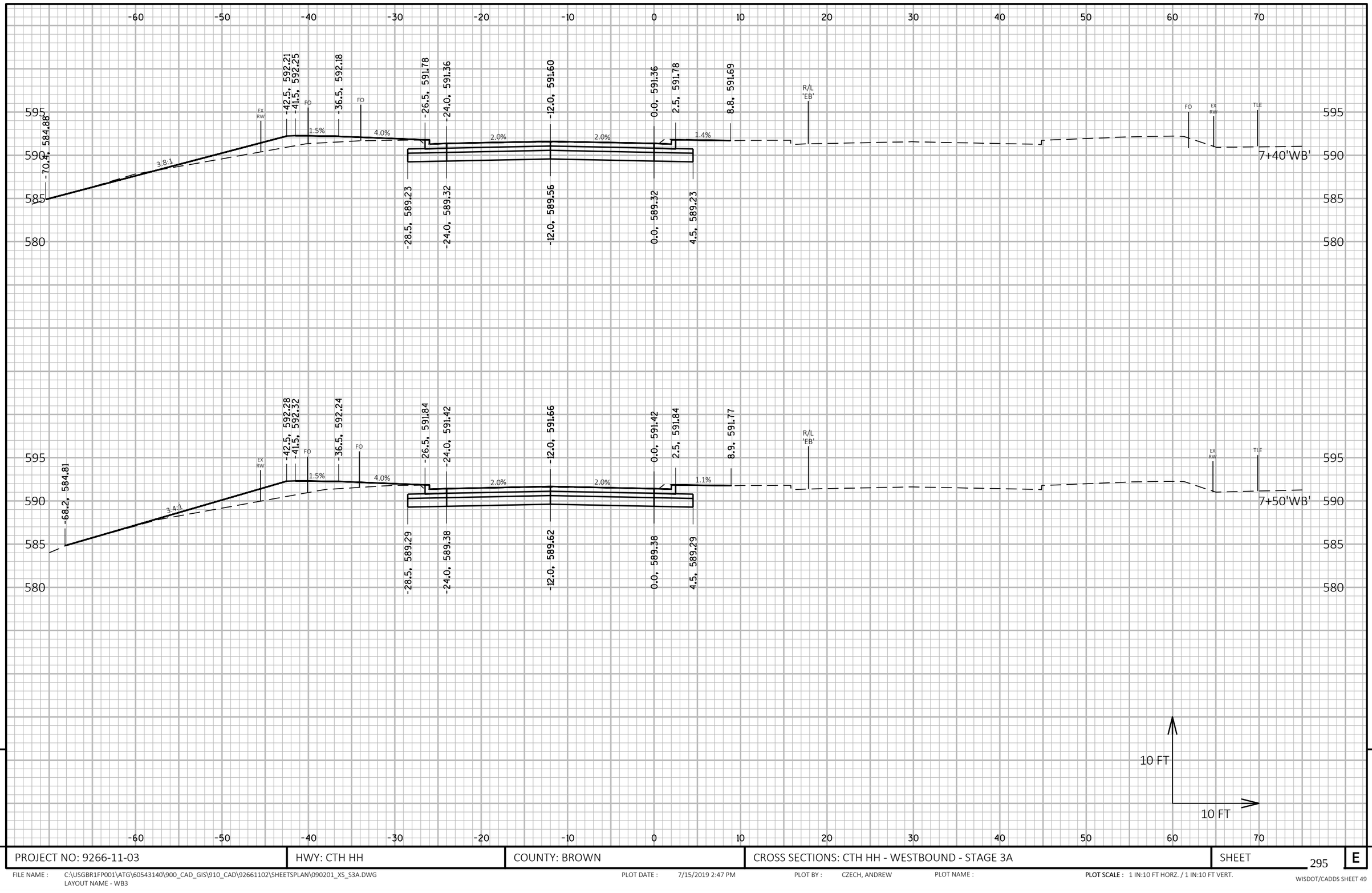
PLOT DATE : 7/15/2019 2:47 PM

PLOT BY : CZECH, ANDREW

PLOT NAME :

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

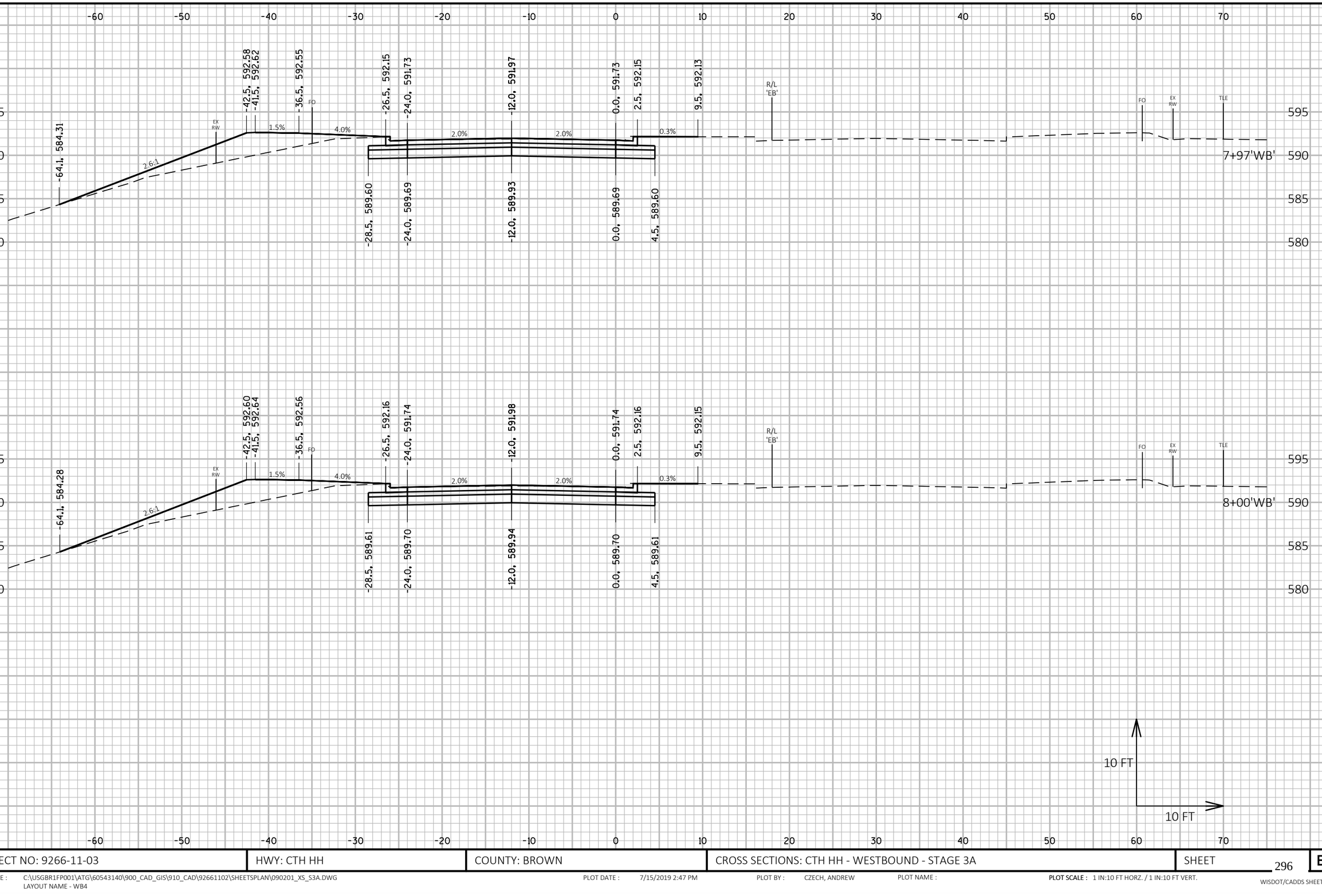
WISDOT/CADDS SHEET 49



PROJECT NO: 9266-11-03	HWY: CTH HH	COUNTY: BROWN	CROSS SECTIONS: CTH HH - WESTBOUND - STAGE 3A	SHEET 295	E

FILE NAME : C:\USGBR1FP001\ATG\60543140\900_CAD_GIS\910_CAD\92661102\SHEETSPLAN\090201_XS_S3A.DWG
LAYOUT NAME - WB3

PLOT DATE : 7/15/2019 2:47 PM PLOT BY : CZECH, ANDREW PLOT NAME : **PLOT SCALE :** 1 IN:10 FT HORZ. / 1 IN:10 FT VERT.



9

9

PROJECT NO: 9266-11-03	HWY: CTH HH	COUNTY: BROWN	CROSS SECTIONS: CTH HH - WESTBOUND - STAGE 3A	SHEET 296	E

FILE NAME : C:\USGBR1FP001\ATG\60543140\900_CAD_GIS\910_CAD\92661102\SHEETSPLAN\090201_XS_S3A.DWG
LAYOUT NAME - WB4

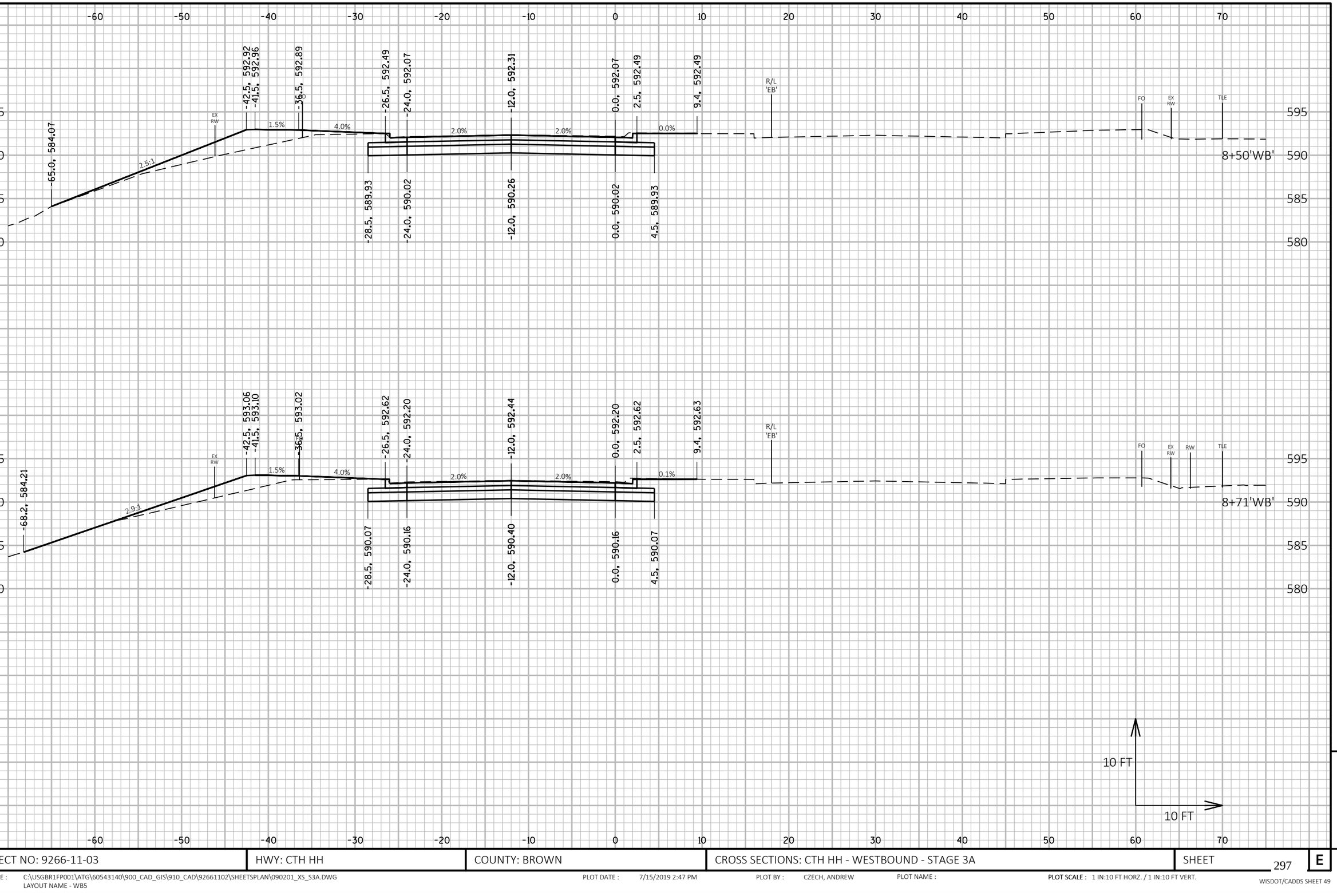
PLOT DATE : 7/15/2019 2:47 PM

PLOT BY : CZECH, ANDREW

PLOT NAME :

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

WISDOT/CADDS SHEET 49

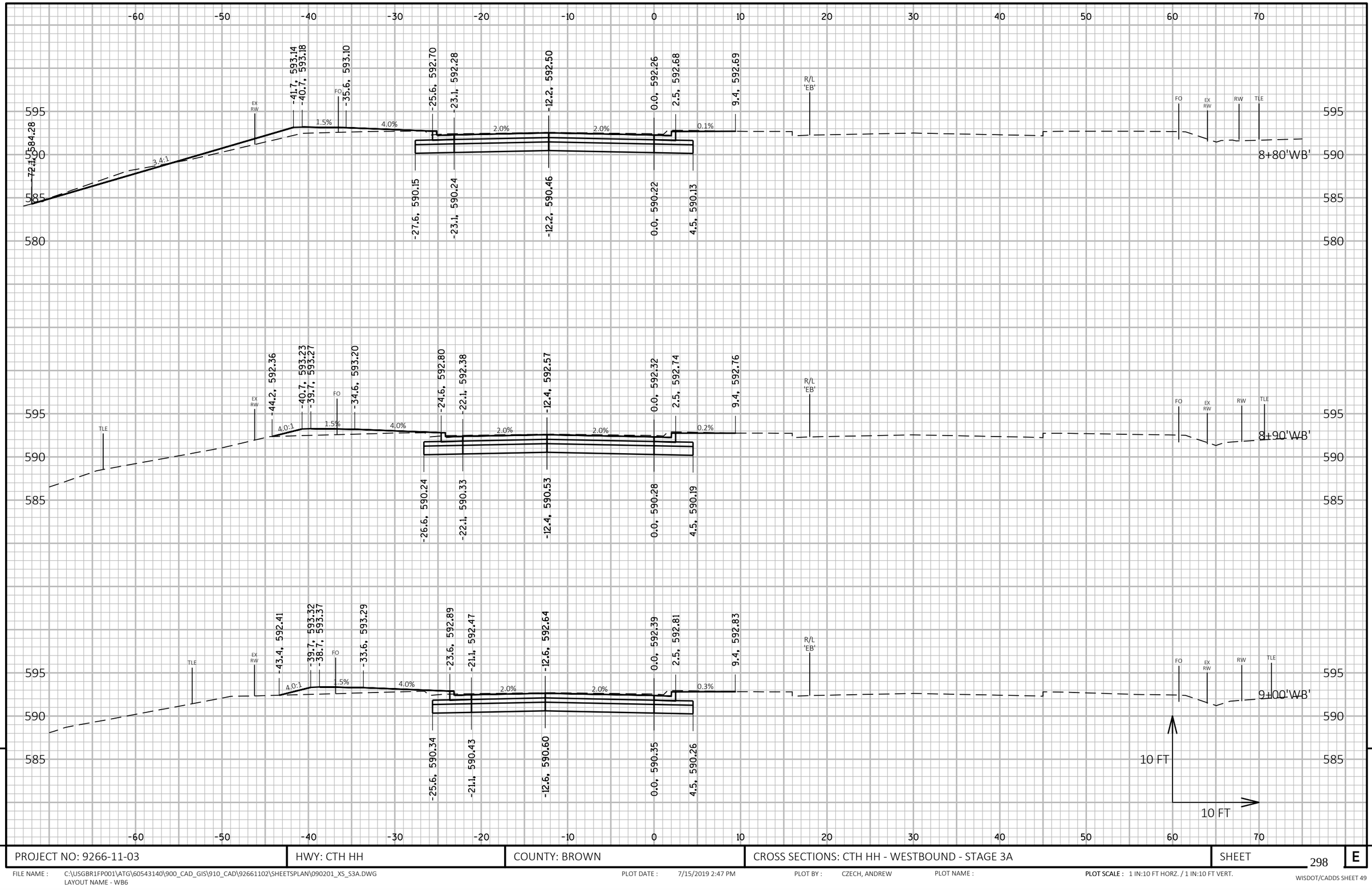


PROJECT NO: 9266-11-03	HWY: CTH HH	COUNTY: BROWN	CROSS SECTIONS: CTH HH - WESTBOUND - STAGE 3A	SHEET 297	E

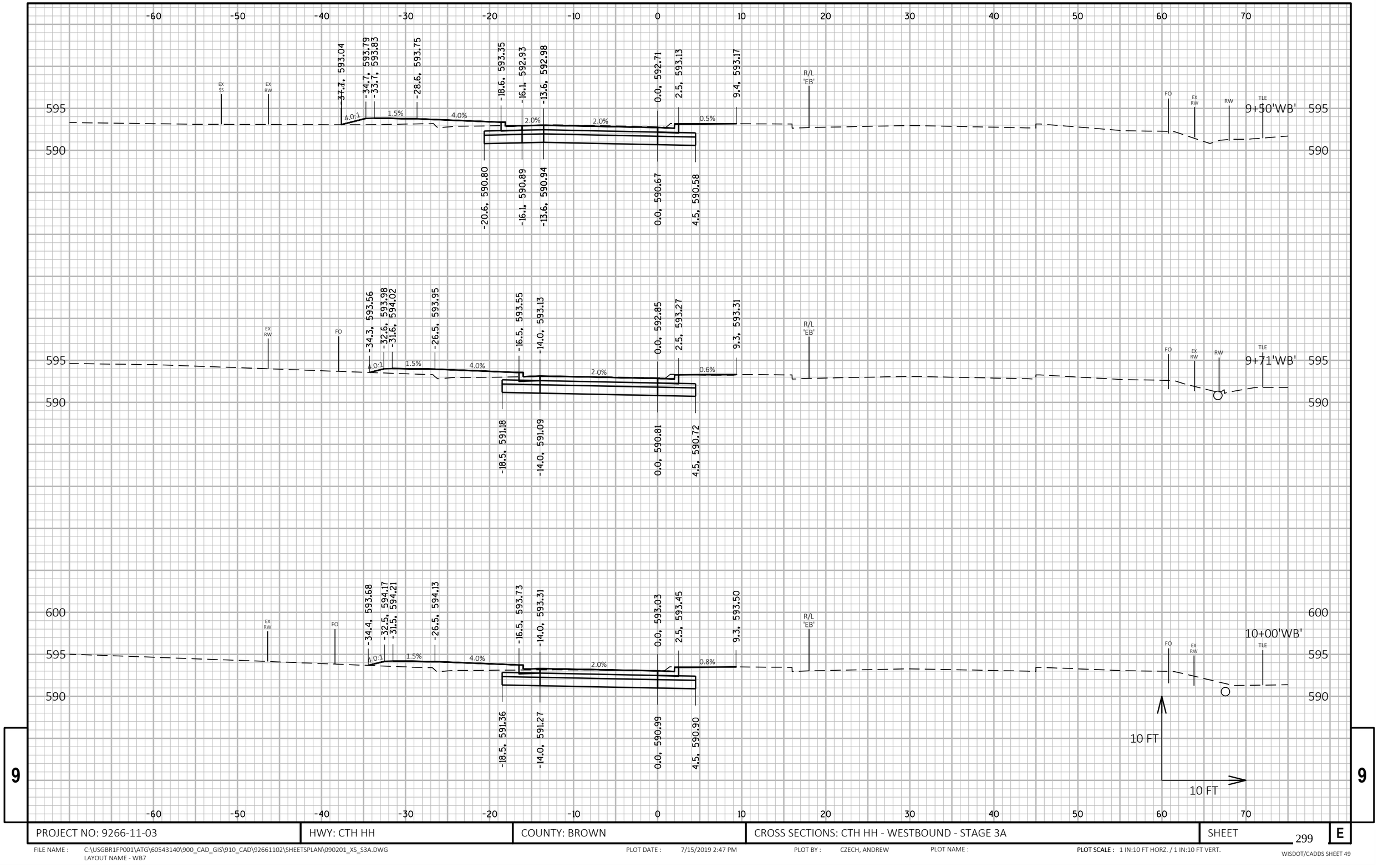
FILE NAME : C:\USGBR1FP001\ATG\60543140\900_CAD_GIS\910_CAD\92661102\SHEETSPLAN\090201_XS_S3A.DWG
LAYOUT NAME - WB5

PLOT DATE : 7/15/2019 2:47 PM PLOT BY : CZECH, ANDREW PLOT NAME : PLOT SCALE : 1 IN:10 FT HORZ. / 1 IN:10 FT VERT.

WISDOT/CADDS SHEET 49



PROJECT NO: 9266-11-03	HWY: CTH HH	COUNTY: BROWN	CROSS SECTIONS: CTH HH - WESTBOUND - STAGE 3A	SHEET 298	E



9

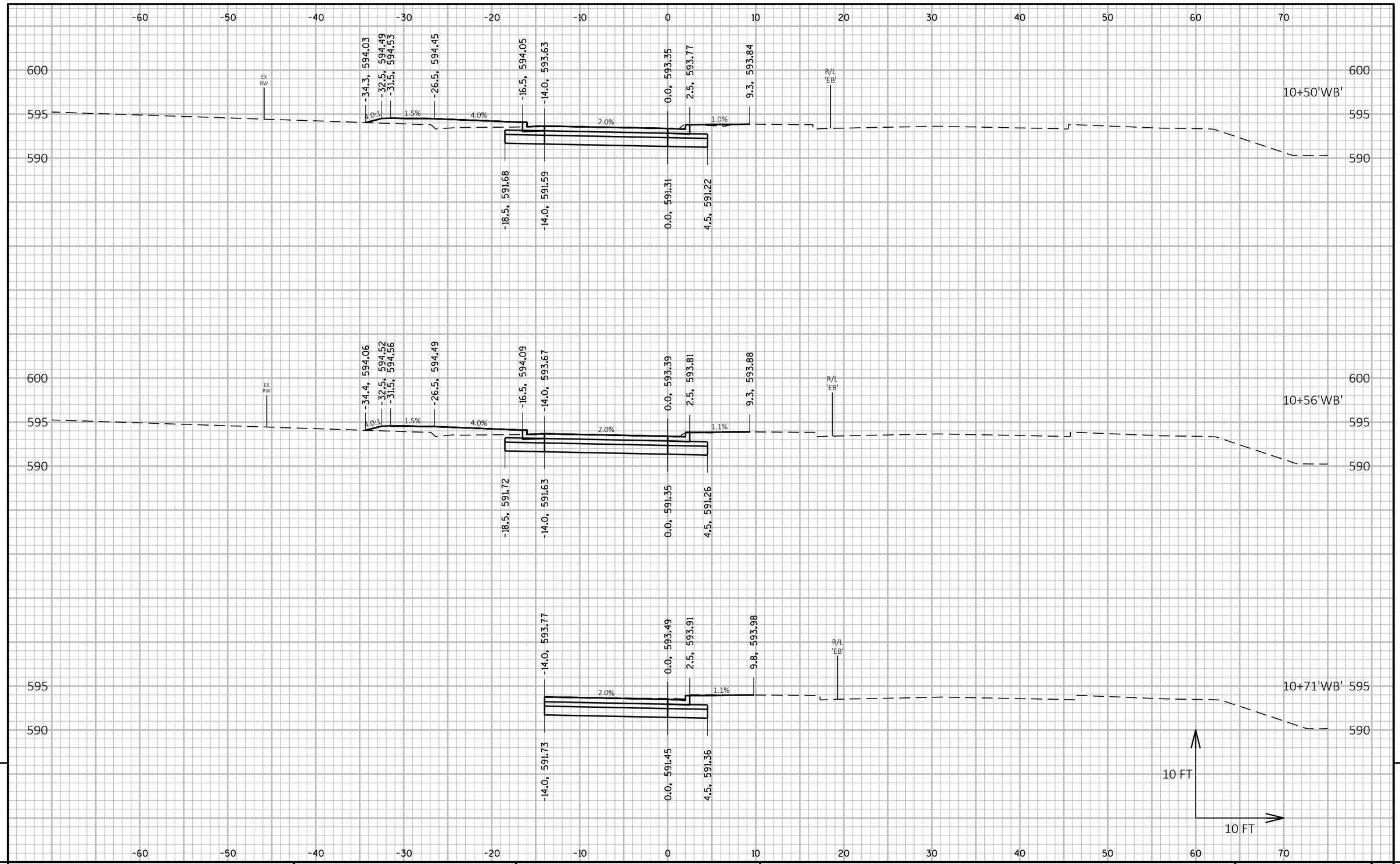
9

PROJECT NO: 9266-11-03	HWY: CTH HH	COUNTY: BROWN	CROSS SECTIONS: CTH HH - WESTBOUND - STAGE 3A	SHEET 299	E

FILE NAME : C:\USGBR1FP001\ATG\60543140\900_CAD_GIS\910_CAD\92661102\SHEETSPLAN\090201_XS_S3A.DWG
LAYOUT NAME - WB7

PLOT DATE : 7/15/2019 2:47 PM PLOT BY : CZECH, ANDREW PLOT NAME : PLOT SCALE : 1 IN:10 FT HORZ. / 1 IN:10 FT VERT.

WISDOT/CADDS SHEET 49



9

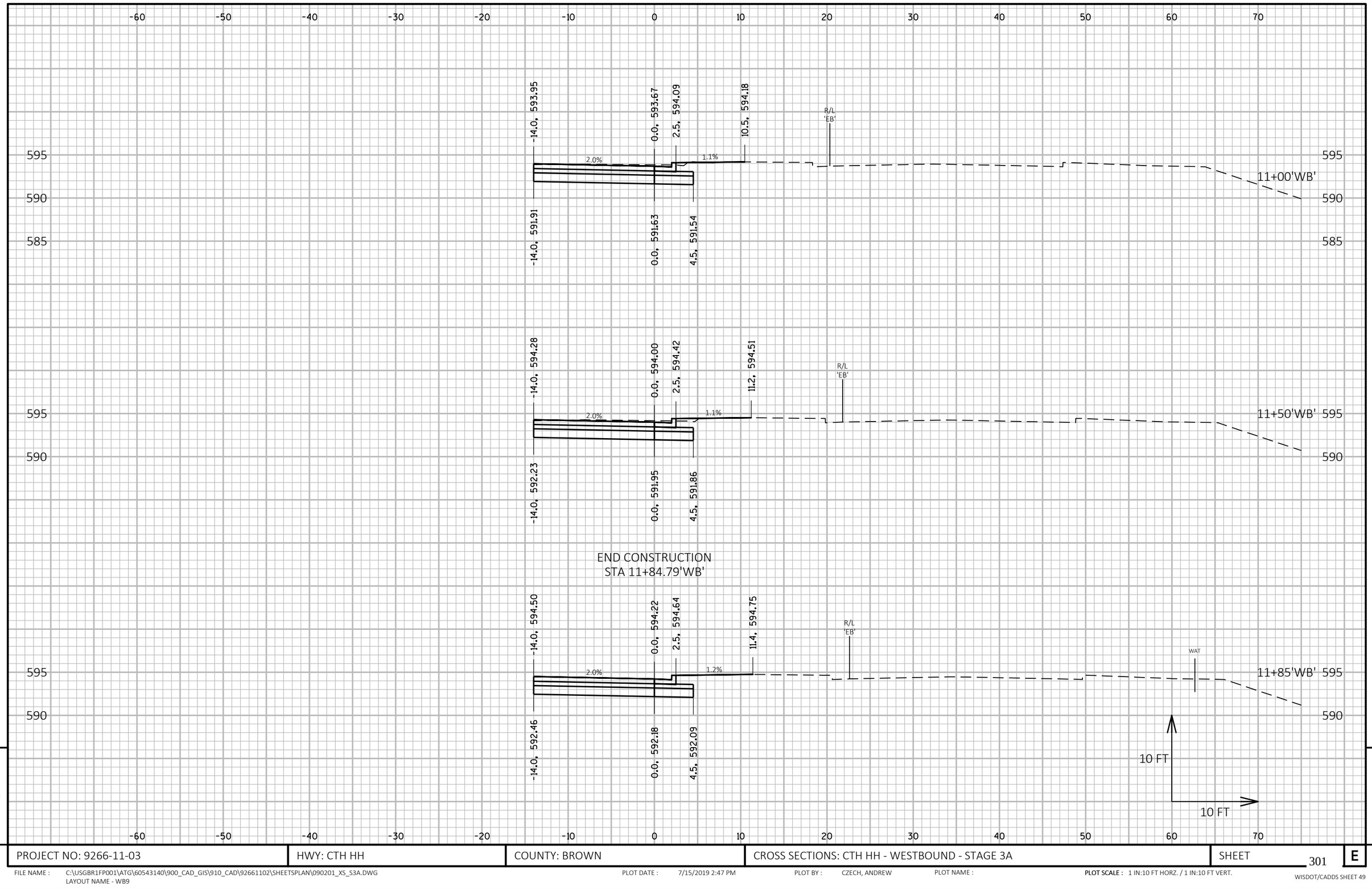
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PROJECT NO: 9266-11-03	HWY: CTH HH	COUNTY: BROWN	CROSS SECTIONS: CTH HH - WESTBOUND - STAGE 3A	SHEET 300	E

FILE NAME : C:\USGBR1FP001\ATG\60543140\900_CAD_GIS\910_CAD\92661102\SHEETSPLAN\090201_XS_S3A.DWG
LAYOUT NAME - WB8

PLOT DATE : 7/15/2019 2:47 PM PLOT BY : CZECH, ANDREW PLOT NAME : **PLOT SCALE :** 1 IN:10 FT HORZ. / 1 IN:10 FT VERT.

WISDOT/CADDS SHEET 49



9

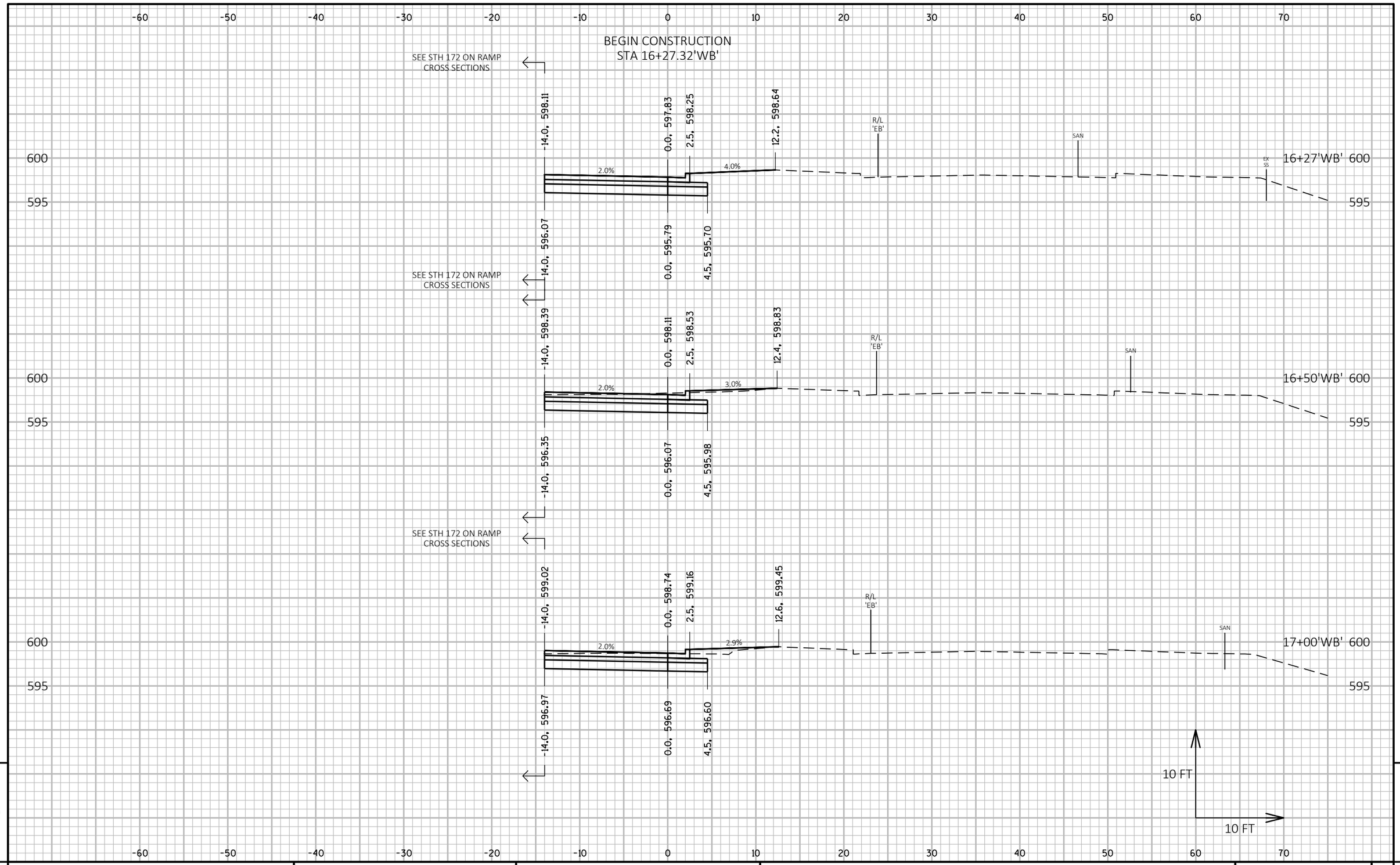
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PROJECT NO: 9266-11-03	HWY: CTH HH	COUNTY: BROWN	CROSS SECTIONS: CTH HH - WESTBOUND - STAGE 3A	SHEET 301	E

FILE NAME : C:\USGBR1FP001\ATG\60543140\900_CAD_GIS\910_CAD\92661102\SHEETSPLAN\090201_XS_S3A.DWG
LAYOUT NAME - WB9

PLOT DATE : 7/15/2019 2:47 PM PLOT BY : CZECH, ANDREW PLOT NAME : PLOT SCALE : 1 IN:10 FT HORZ. / 1 IN:10 FT VERT.

WISDOT/CADDS SHEET 49

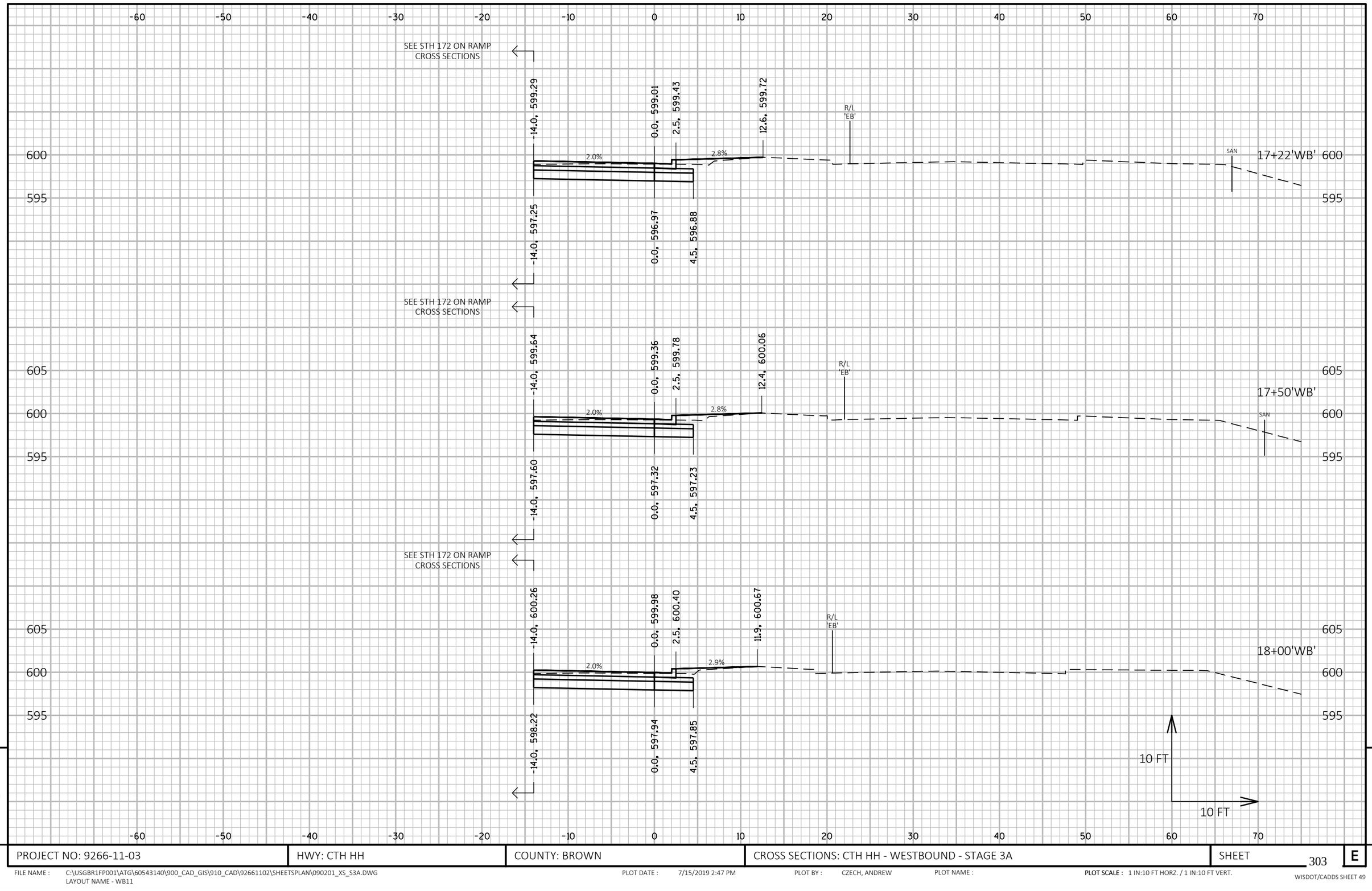


PROJECT NO: 9266-11-03	HWY: CTH HH	COUNTY: BROWN	CROSS SECTIONS: CTH HH - WESTBOUND - STAGE 3A	SHEET 302	E

FILE NAME : C:\USGBR1FP001\ATG\60543140\900_CAD_GIS\910_CAD\92661102\SHEETSPLAN\090201_XS_S3A.DWG
LAYOUT NAME - WB10

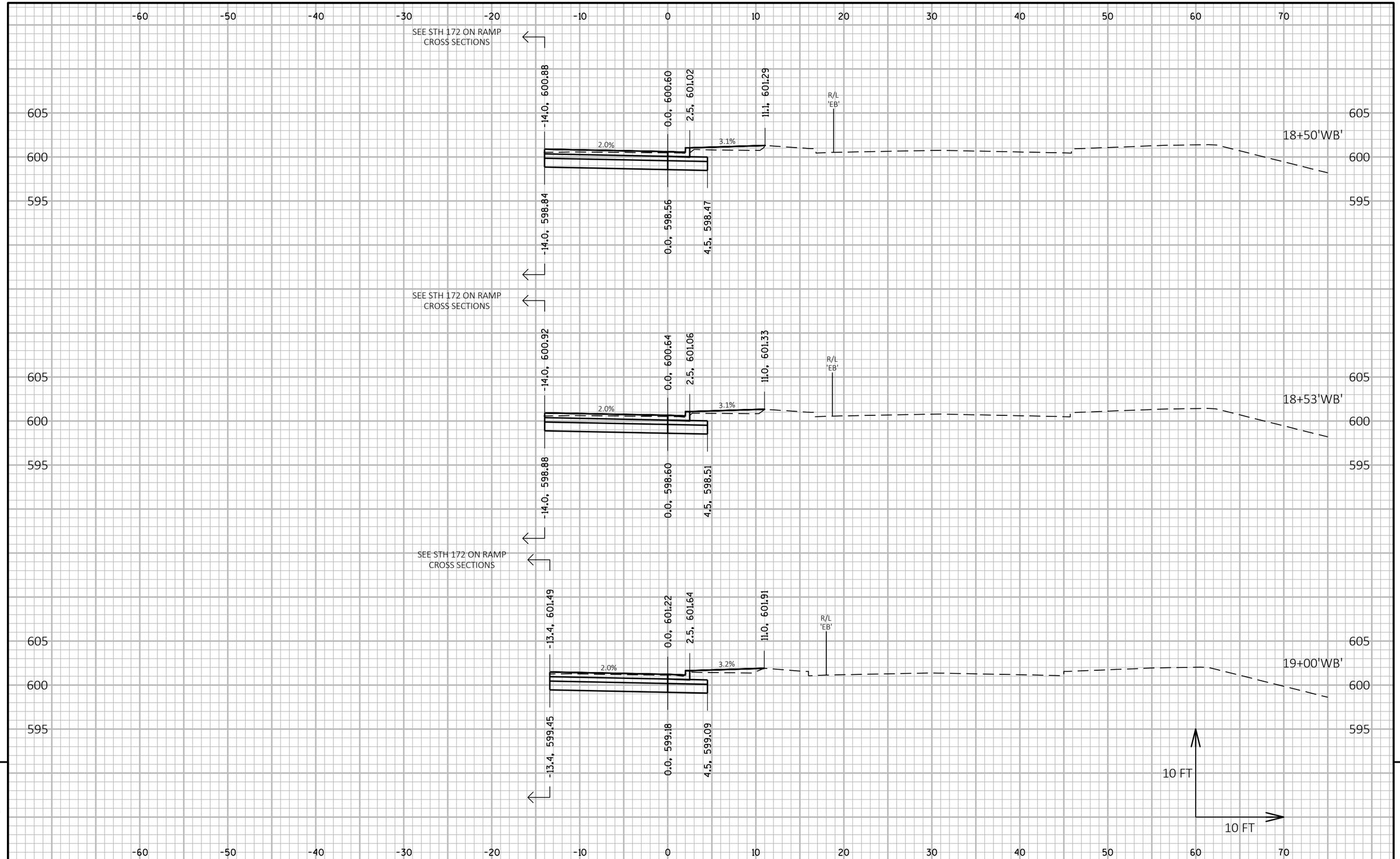
PLOT DATE : 7/15/2019 2:47 PM PLOT BY : CZECH, ANDREW PLOT NAME : PLOT SCALE : 1 IN:10 FT HORZ. / 1 IN:10 FT VERT.

WISDOT/CADDS SHEET 49



PROJECT NO: 9266-11-03	HWY: CTH HH	COUNTY: BROWN	CROSS SECTIONS: CTH HH - WESTBOUND - STAGE 3A	SHEET 303	E

FILE NAME : C:\USGBR1FP001\ATG\60543140\900_CAD_GIS\910_CAD\92661102\SHEETSPLAN\090201_XS_S3A.DWG
LAYOUT NAME - WB11
PLOT DATE : 7/15/2019 2:47 PM
PLOT BY : CZECH, ANDREW
PLOT NAME :
PLOT SCALE : 1 IN:10 FT HORZ. / 1 IN:10 FT VERT.
WISDOT/CADDS SHEET 49

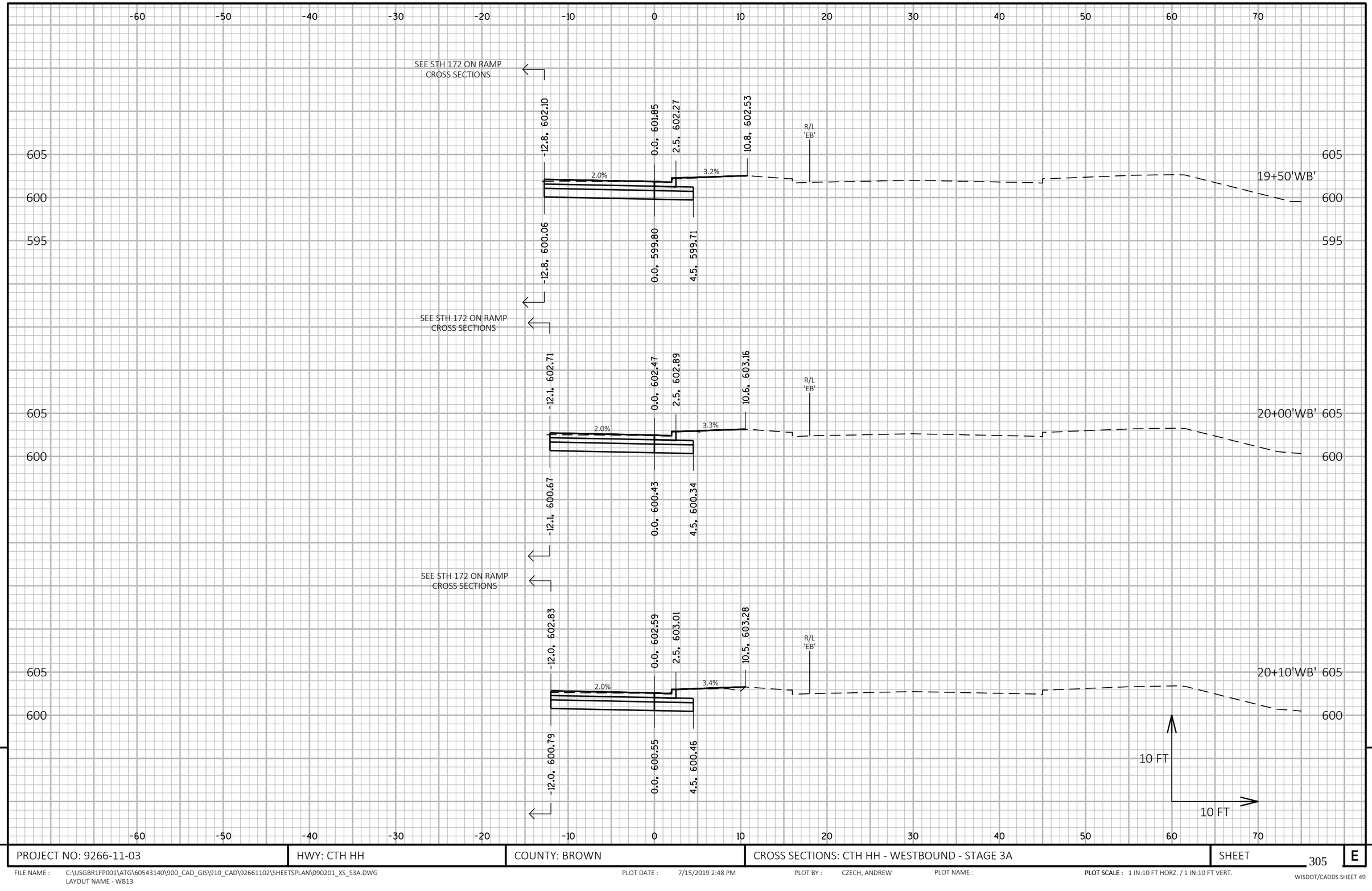


PROJECT NO: 9266-11-03	HWY: CTH HH	COUNTY: BROWN	CROSS SECTIONS: CTH HH - WESTBOUND - STAGE 3A	SHEET 304	E

FILE NAME : C:\USGBR1FP001\ATG\60543140\900_CAD_GIS\910_CAD\92661102\SHEETSPLAN\090201_XS_S3A.DWG
LAYOUT NAME - WB12

PLOT DATE : 7/15/2019 2:48 PM PLOT BY : CZECH, ANDREW PLOT NAME : PLOT SCALE : 1 IN:10 FT HORZ. / 1 IN:10 FT VERT.

WISDOT/CADDS SHEET 49



9

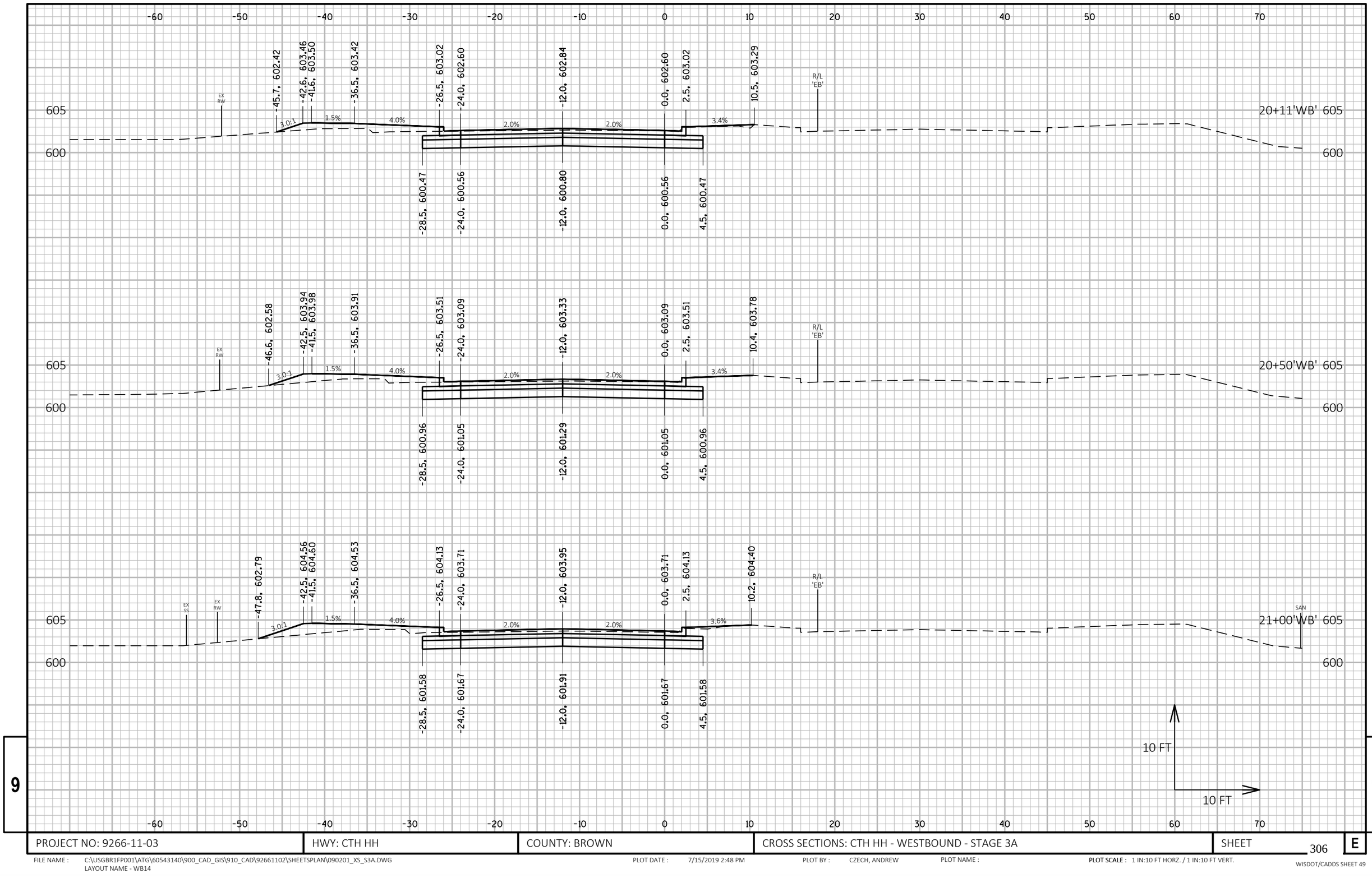
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PROJECT NO: 9266-11-03	HWY: CTH HH	COUNTY: BROWN	CROSS SECTIONS: CTH HH - WESTBOUND - STAGE 3A	SHEET 305	E

FILE NAME : C:\USGBR1FP001\ATG\60543140\900_CAD_GIS\910_CAD\92661102\SHEETSPLAN\090201_XS_S3A.DWG
LAYOUT NAME - WB13

PLOT DATE : 7/15/2019 2:48 PM PLOT BY : CZECH, ANDREW PLOT NAME : **PLOT SCALE :** 1 IN:10 FT HORZ. / 1 IN:10 FT VERT.

WISDOT/CADDS SHEET 49



9

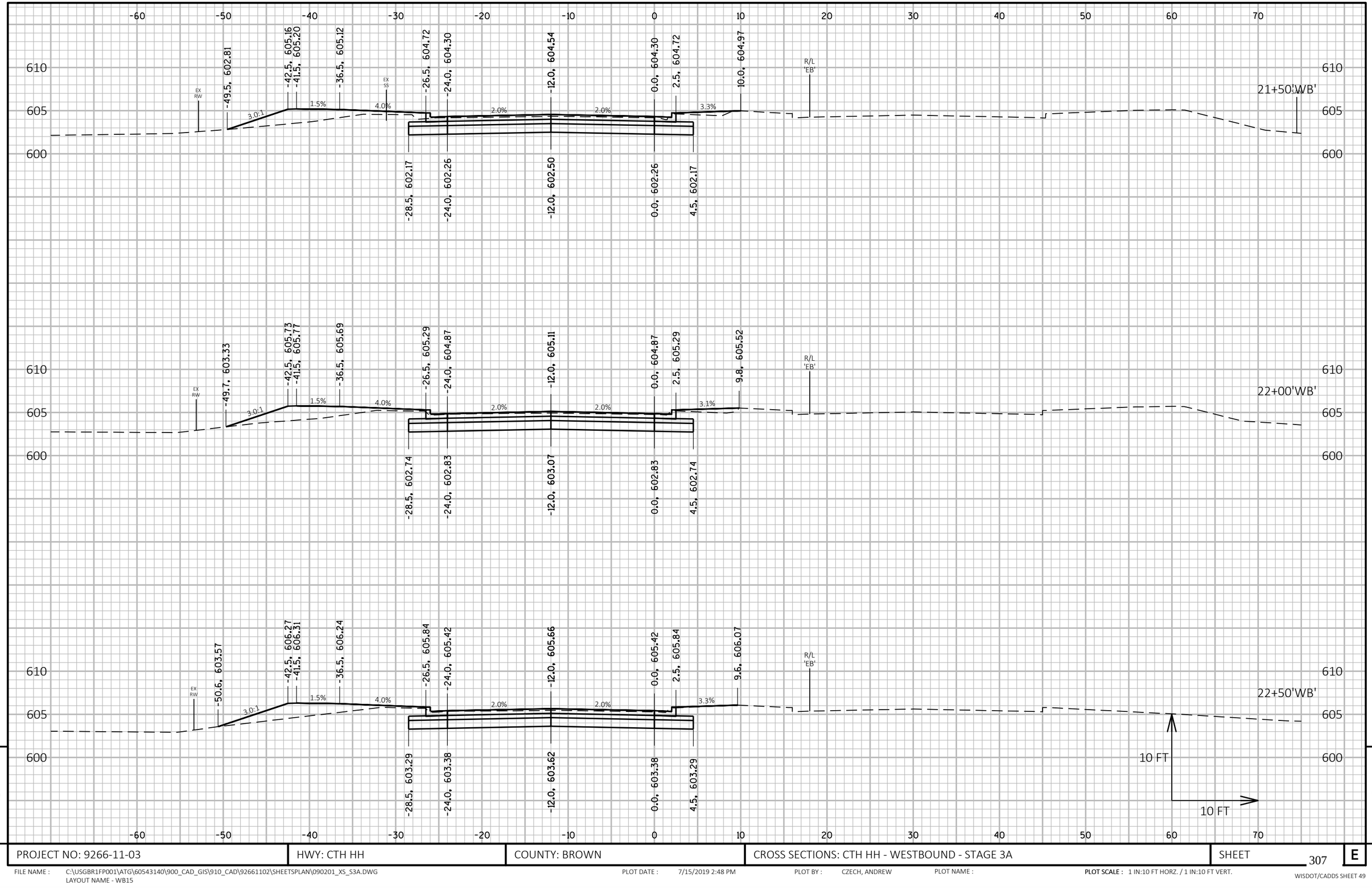
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PROJECT NO: 9266-11-03	HWY: CTH HH	COUNTY: BROWN	CROSS SECTIONS: CTH HH - WESTBOUND - STAGE 3A	SHEET 306	E

FILE NAME : C:\USGBR1FP001\ATG\60543140\900_CAD_GIS\910_CAD\92661102\SHEETSPLAN\090201_XS_S3A.DWG
LAYOUT NAME - WB14

PLOT DATE : 7/15/2019 2:48 PM PLOT BY : CZECH, ANDREW PLOT NAME : PLOT SCALE : 1 IN:10 FT HORZ. / 1 IN:10 FT VERT.

WISDOT/CADDS SHEET 49



9

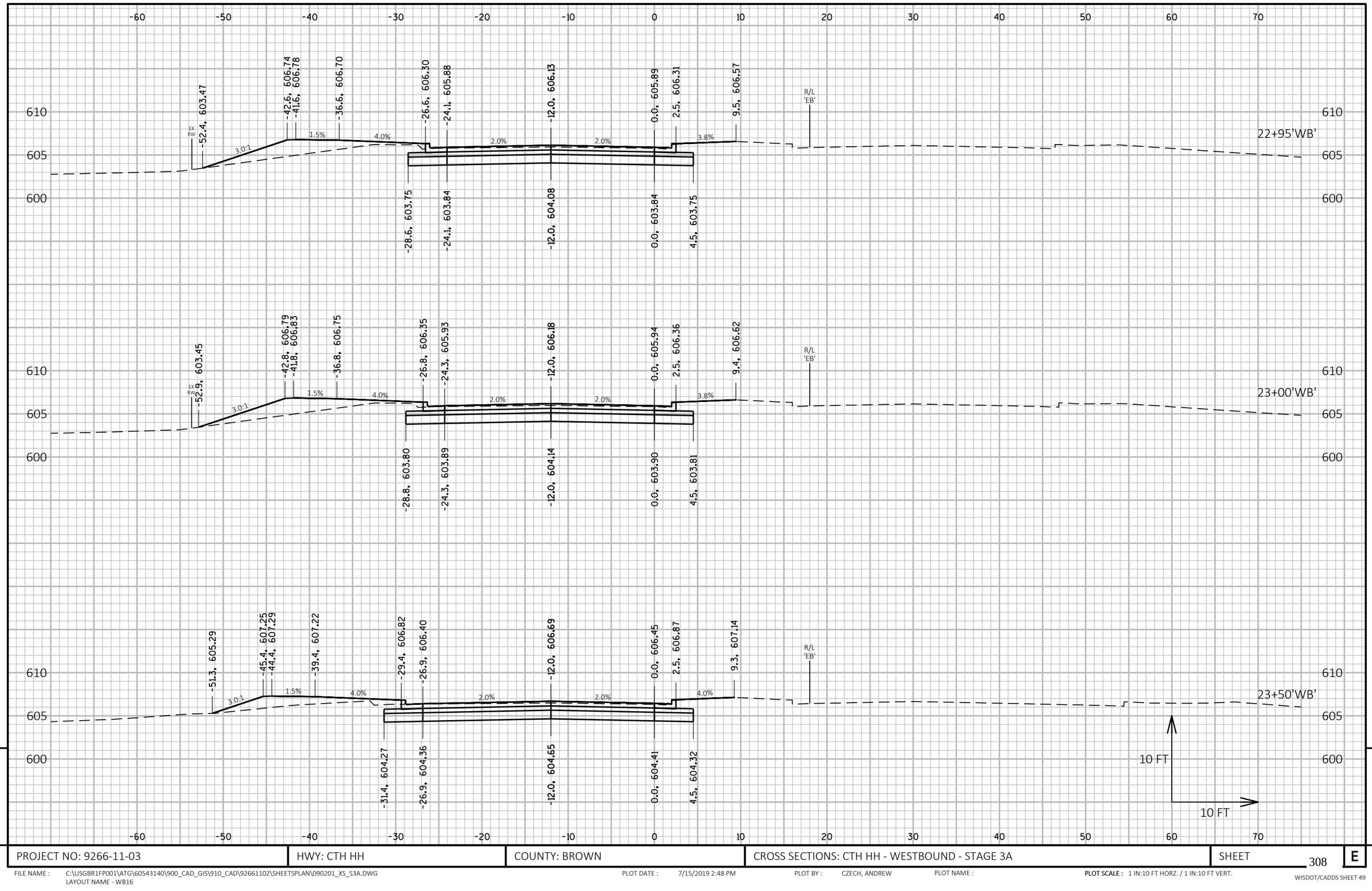
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PROJECT NO: 9266-11-03	HWY: CTH HH	COUNTY: BROWN	CROSS SECTIONS: CTH HH - WESTBOUND - STAGE 3A	SHEET 307	E

FILE NAME : C:\USGBR1FP001\ATG\60543140\900_CAD_GIS\910_CAD\92661102\SHEETSPLAN\090201_XS_S3A.DWG
LAYOUT NAME - WB15

PLOT DATE : 7/15/2019 2:48 PM PLOT BY : CZECH, ANDREW PLOT NAME : PLOT SCALE : 1 IN:10 FT HORZ. / 1 IN:10 FT VERT.

WISDOT/CADDS SHEET 49



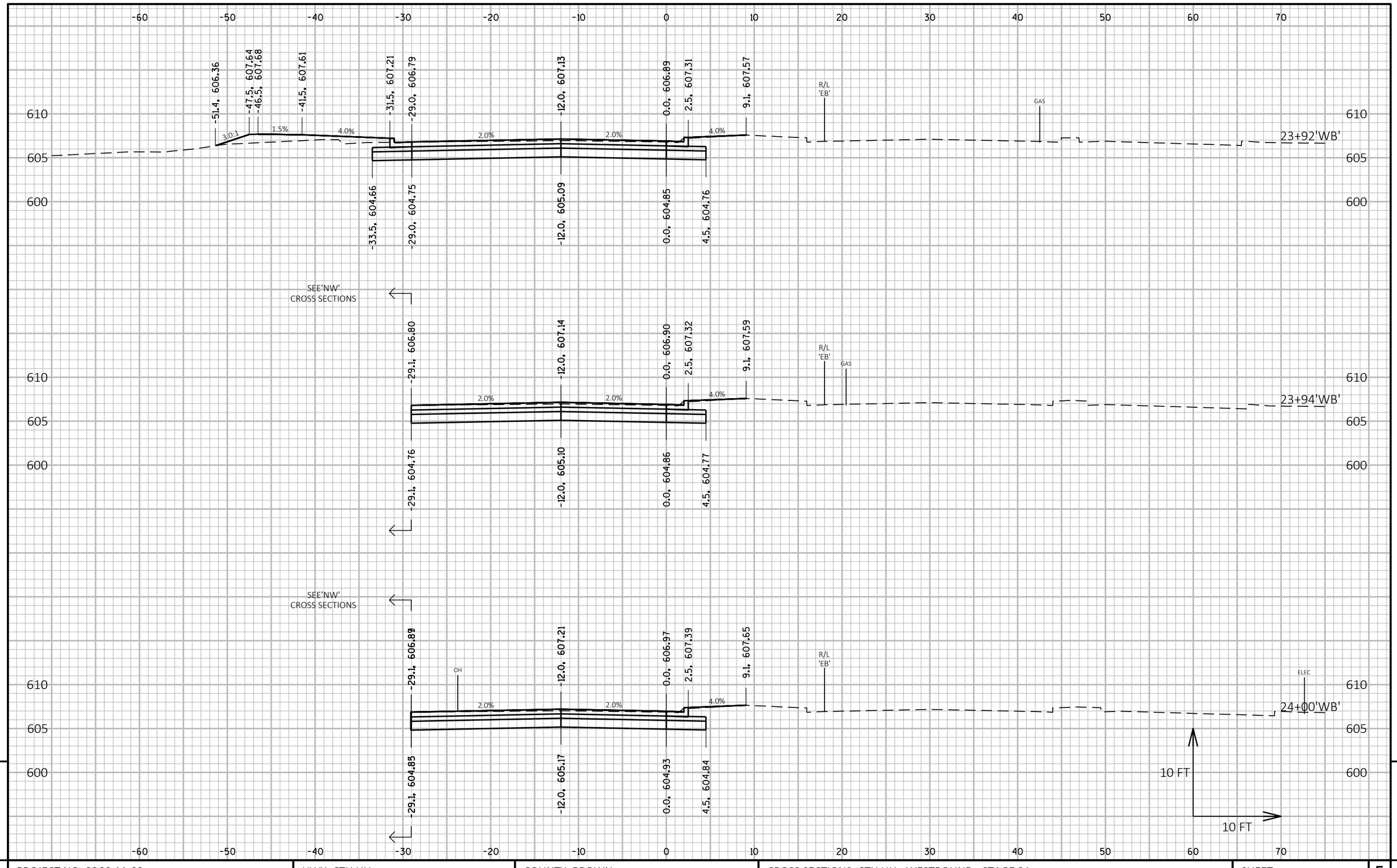
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PROJECT NO: 9266-11-03	HWY: CTH HH	COUNTY: BROWN	CROSS SECTIONS: CTH HH - WESTBOUND - STAGE 3A	SHEET 308	E

FILE NAME : C:\USGBR1FP001\ATG\60543140\900_CAD_GIS\910_CAD\92661102\SHEETSPLAN\090201_XS_S3A.DWG
LAYOUT NAME - WB16

PLOT DATE : 7/15/2019 2:48 PM PLOT BY : CZECH, ANDREW PLOT NAME : **PLOT SCALE :** 1 IN:10 FT HORZ. / 1 IN:10 FT VERT.

WISDOT/CADDS SHEET 49



9

9

PROJECT NO: 9266-11-03	HWY: CTH HH	COUNTY: BROWN	CROSS SECTIONS: CTH HH - WESTBOUND - STAGE 3A	SHEET 309	E

FILE NAME : C:\USGBR1FP001\ATG\60543140\900_CAD_GIS\910_CAD\92661102\SHEETSPLAN\090201_XS_S3A.DWG
LAYOUT NAME - WB17

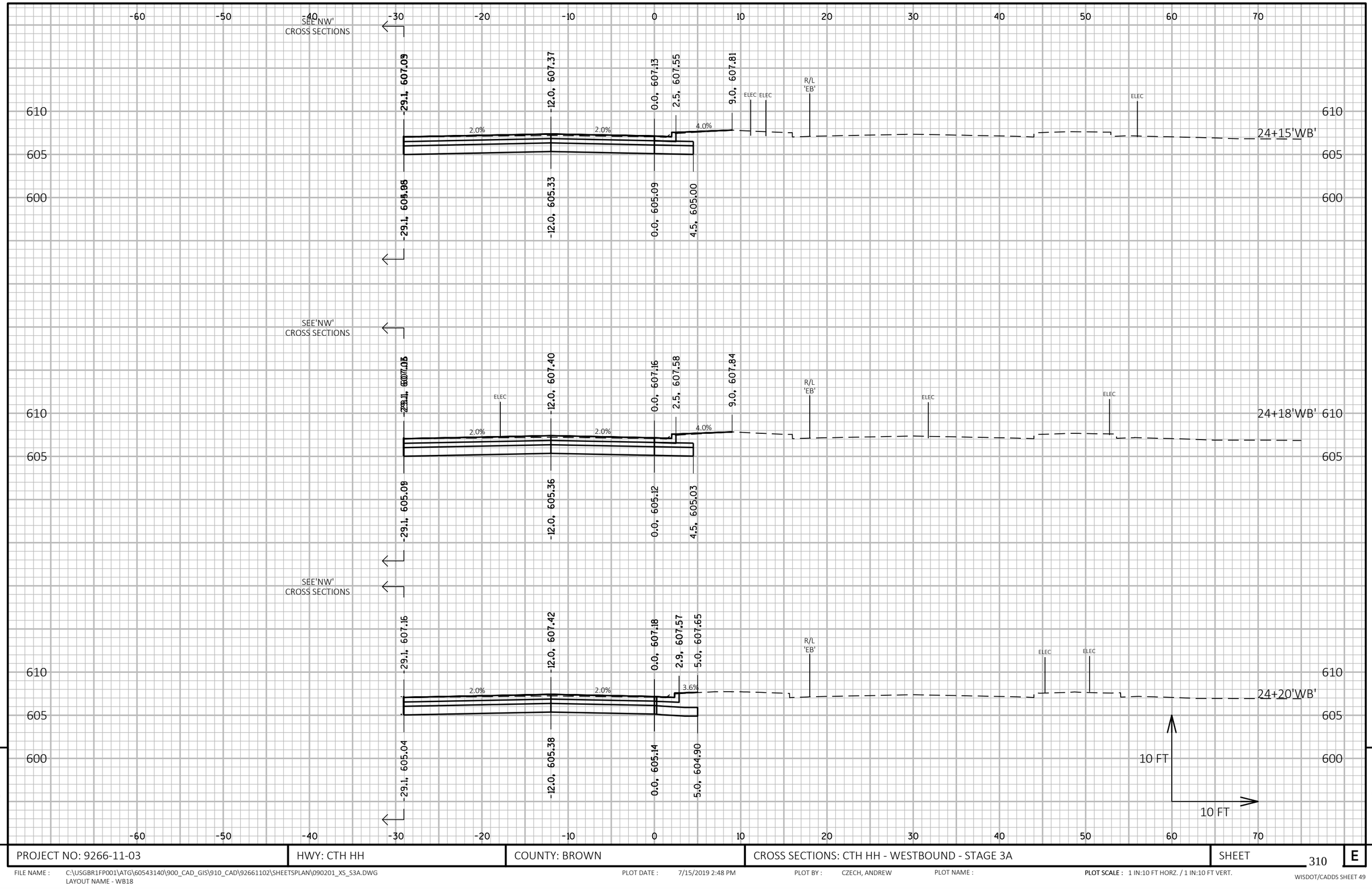
PLOT DATE : 7/15/2019 2:48 PM

PLOT BY : CZECH, ANDREW

PLOT NAME :

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

WISDOT/CADDS SHEET 49



9

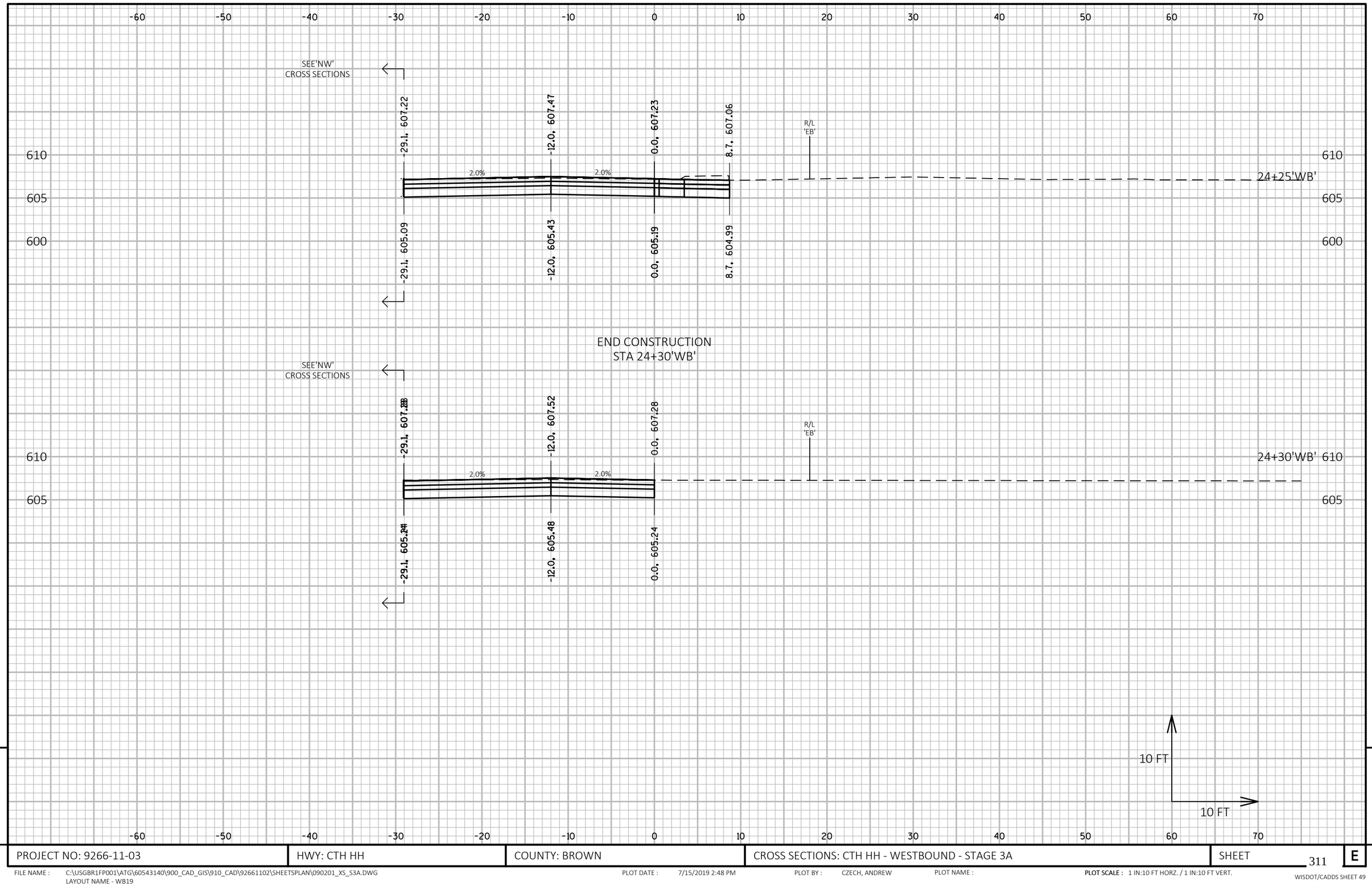
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PROJECT NO: 9266-11-03	HWY: CTH HH	COUNTY: BROWN	CROSS SECTIONS: CTH HH - WESTBOUND - STAGE 3A	SHEET 310	E

FILE NAME : C:\USGBR1FP001\ATG\60543140\900_CAD_GIS\910_CAD\92661102\SHEETSPLAN\090201_XS_S3A.DWG
LAYOUT NAME - WB18

PLOT DATE : 7/15/2019 2:48 PM PLOT BY : CZECH, ANDREW PLOT NAME : **PLOT SCALE :** 1 IN:10 FT HORZ. / 1 IN:10 FT VERT.

WISDOT/CADDS SHEET 49

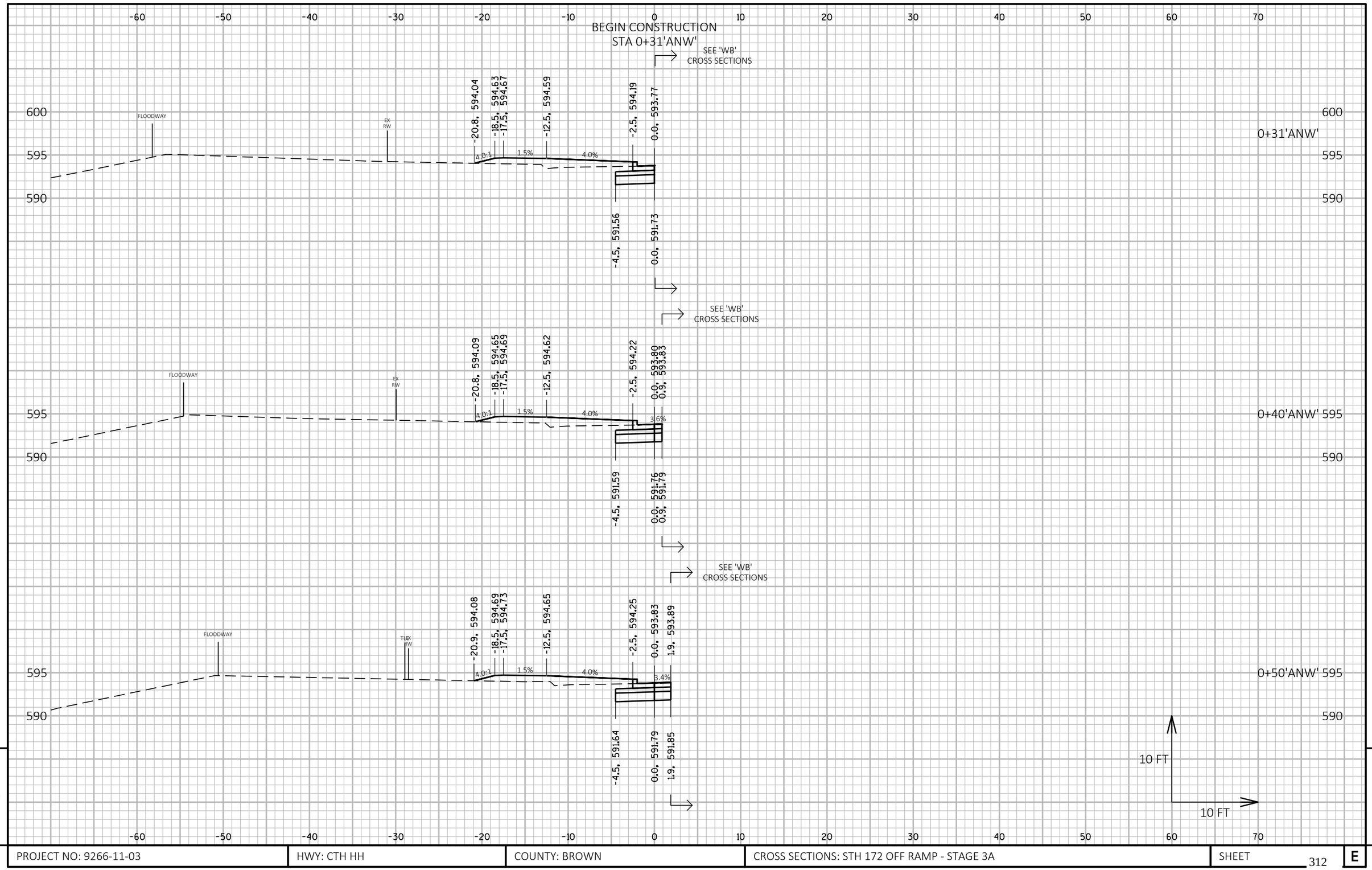


PROJECT NO: 9266-11-03	HWY: CTH HH	COUNTY: BROWN	CROSS SECTIONS: CTH HH - WESTBOUND - STAGE 3A	SHEET 311	E

FILE NAME : C:\USGBR1FP001\ATG\60543140\900_CAD_GIS\910_CAD\92661102\SHEETSPLAN\090201_XS_S3A.DWG
LAYOUT NAME - WB19

PLOT DATE : 7/15/2019 2:48 PM PLOT BY : CZECH, ANDREW PLOT NAME : **PLOT SCALE :** 1 IN:10 FT HORZ. / 1 IN:10 FT VERT.

WISDOT/CADDS SHEET 49



9

PROJECT NO: 9266-11-03	HWY: CTH HH	COUNTY: BROWN	CROSS SECTIONS: STH 172 OFF RAMP - STAGE 3A	SHEET 312	E

FILE NAME : C:\USGBR1FP001\ATG\60543140\900_CAD_GIS\910_CAD\92661102\SHEETSPLAN\090201_XS_S3A.DWG
LAYOUT NAME - ANW1

PLOT DATE : 7/15/2019 2:48 PM PLOT BY : CZECH, ANDREW PLOT NAME : **PLOT SCALE :** 1 IN:10 FT HORZ. / 1 IN:10 FT VERT.

WISDOT/CADDS SHEET 49

-60 -50 -40 -30 -20 -10 0 10 20 30 40 50 60 70

SEE 'WB' CROSS SECTIONS

FLOODWAY TLE EX RW

-21.5, 593.97 -18.5, 594.72 -17.5, 594.76 -12.5, 594.68 -2.5, 594.28 0.0, 593.86 3.0, 593.96

4.0:1 1.5% 4.0% 3.2%

595 590 585

-4.5, 591.68 0.0, 591.82 3.0, 591.92

0+60'ANW'

SEE 'WB' CROSS SECTIONS

FLOODWAY TLE EX RW

-21.5, 594.01 -18.5, 594.75 -17.5, 594.79 -12.5, 594.71 -2.5, 594.31 0.0, 593.89 4.3, 594.02

4.0:1 1.5% 4.0% 3.0%

595 590 585

-4.5, 591.72 0.0, 591.85 4.3, 591.98

0+70'ANW'

SEE 'WB' CROSS SECTIONS

FLOODWAY TLE EX RW

-21.4, 594.03 -18.5, 594.76 -17.5, 594.80 -12.5, 594.73 -2.5, 594.33 0.0, 593.91 5.0, 594.05

4.0:1 1.5% 4.0% 2.9%

595 590 585

-4.5, 591.74 0.0, 591.87 5.0, 592.01

0+75'ANW'

10 FT

10 FT

-60 -50 -40 -30 -20 -10 0 10 20 30 40 50 60 70

9

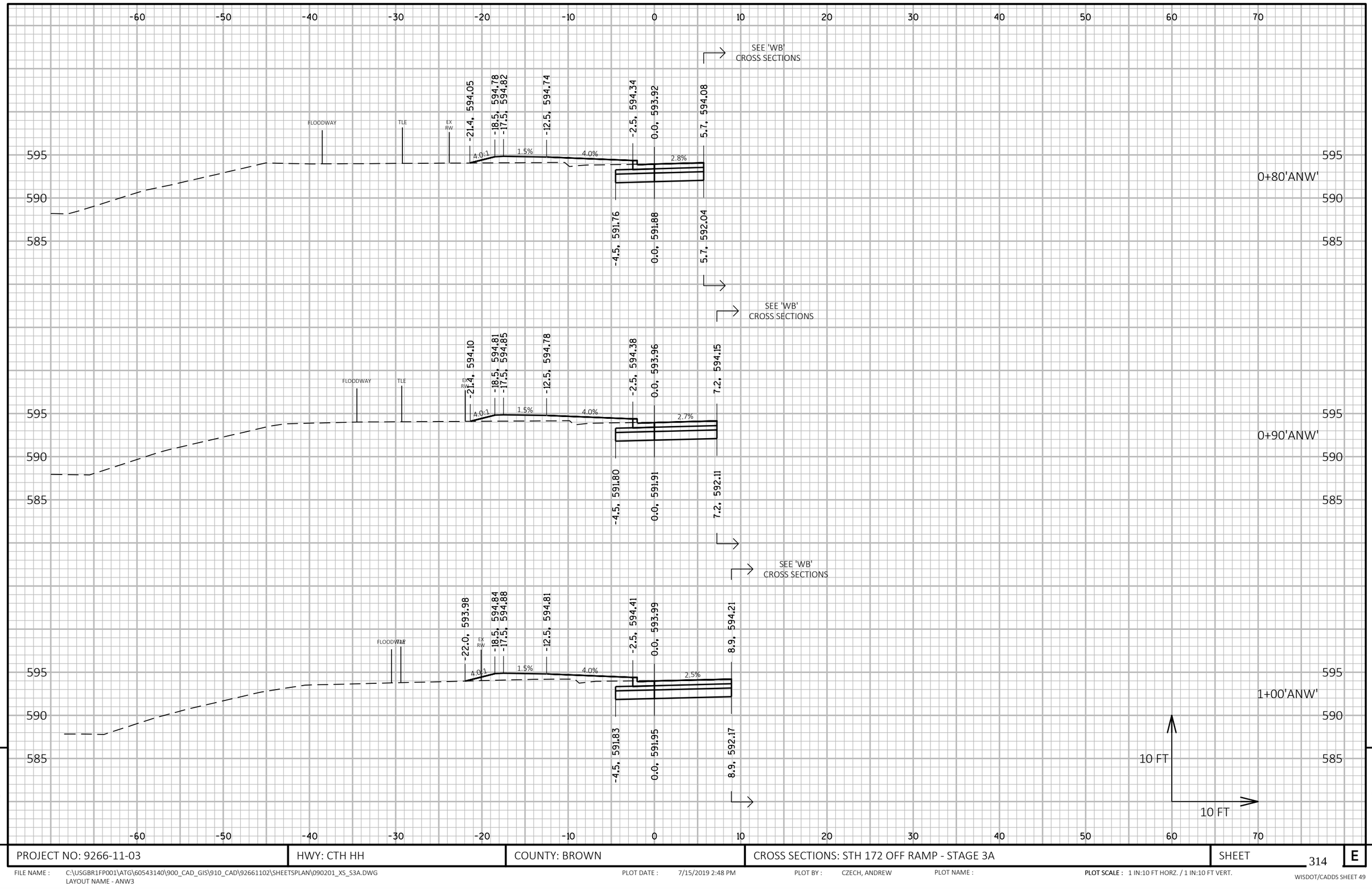
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PROJECT NO: 9266-11-03	HWY: CTH HH	COUNTY: BROWN	CROSS SECTIONS: STH 172 OFF RAMP - STAGE 3A	SHEET 313	E

FILE NAME : C:\USGBR1FP001\ATG\60543140\900_CAD_GIS\910_CAD\92661102\SHEETSPLAN\090201_XS_S3A.DWG
LAYOUT NAME - ANW2

PLOT DATE : 7/15/2019 2:48 PM PLOT BY : CZECH, ANDREW PLOT NAME : **PLOT SCALE :** 1 IN:10 FT HORZ. / 1 IN:10 FT VERT.

WISDOT/CADDS SHEET 49



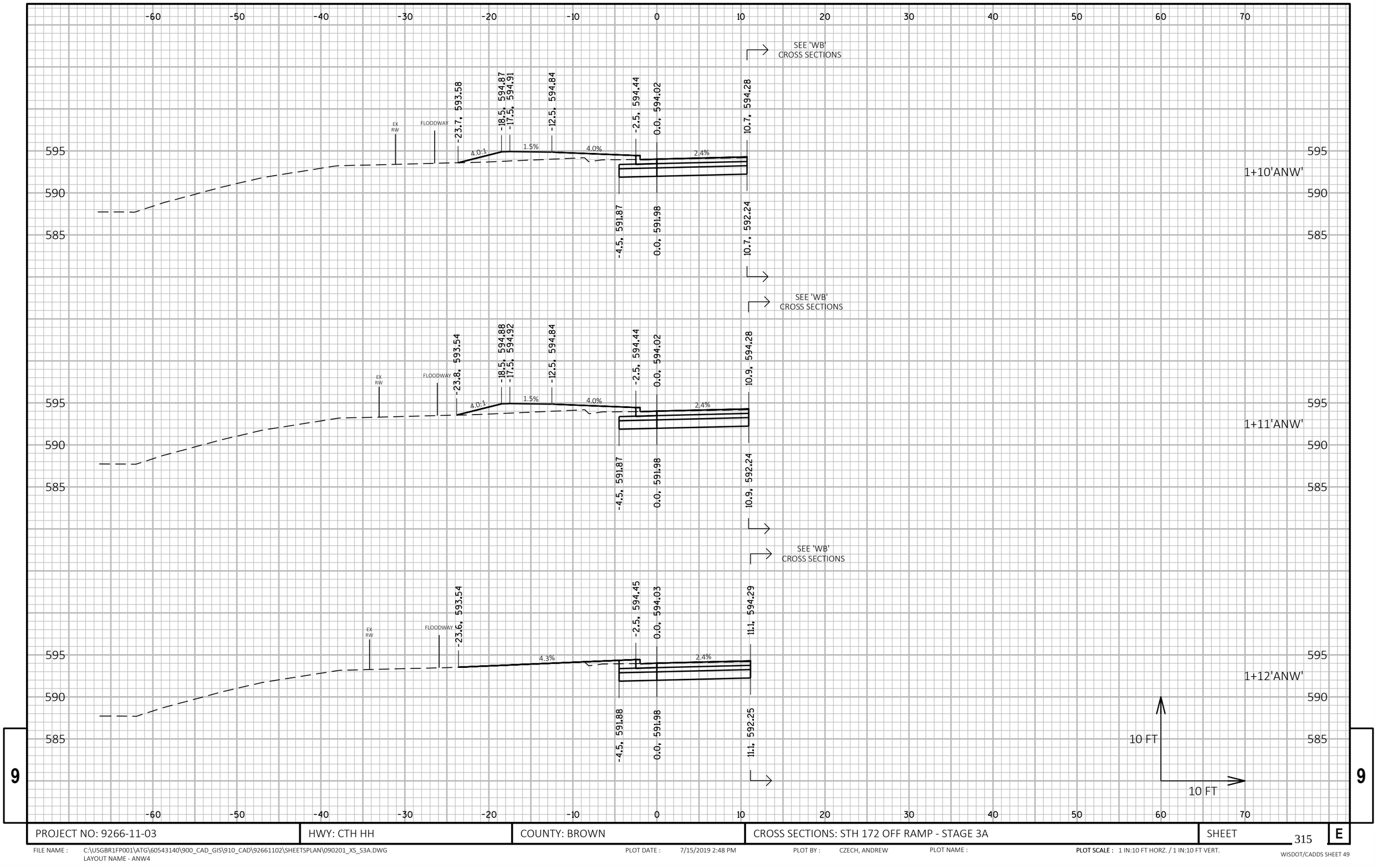
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PROJECT NO: 9266-11-03	HWY: CTH HH	COUNTY: BROWN	CROSS SECTIONS: STH 172 OFF RAMP - STAGE 3A	SHEET 314	E

FILE NAME : C:\USGBR1FP001\ATG\60543140\900_CAD_GIS\910_CAD\92661102\SHEETSPLAN\090201_XS_S3A.DWG
LAYOUT NAME - ANW3

PLOT DATE : 7/15/2019 2:48 PM PLOT BY : CZECH, ANDREW PLOT NAME : **PLOT SCALE :** 1 IN:10 FT HORZ. / 1 IN:10 FT VERT.

WISDOT/CADDS SHEET 49



PROJECT NO: 9266-11-03	HWY: CTH HH	COUNTY: BROWN	CROSS SECTIONS: STH 172 OFF RAMP - STAGE 3A	SHEET 315	E

FILE NAME : C:\USGBR1FP001\ATG\60543140\900_CAD_GIS\910_CAD\92661102\SHEETSPLAN\090201_XS_S3A.DWG
LAYOUT NAME - ANW4

PLOT DATE : 7/15/2019 2:48 PM PLOT BY : CZECH, ANDREW PLOT NAME : **PLOT SCALE :** 1 IN:10 FT HORZ. / 1 IN:10 FT VERT.

WISDOT/CADDS SHEET 49

-60 -50 -40 -30 -20 -10 0 10 20 30 40 50 60 70

SEE 'WB' CROSS SECTIONS

EX RW

FLOODWAY

-18.7, 593.72

-2.5, 594.47

0.0, 594.05

14.1, 594.36

4.6%

2.2%

595

590

585

-4.5, 591.91

0.0, 592.01

14.1, 592.32

1+20'ANW'

SEE 'WB' CROSS SECTIONS

EX RW

FLOODWAY

-14.1, 593.87

-2.5, 594.47

0.0, 594.05

17.1, 594.40

5.2%

2.0%

595

590

585

-4.5, 591.92

0.0, 592.01

17.1, 592.36

1+25'ANW'

SEE 'WB' CROSS SECTIONS

EX RW

FLOODWAY

-7.3, 594.08

-2.5, 594.45

0.0, 594.03

21.2, 594.45

7.8%

2.0%

595

590

585

-4.5, 591.90

0.0, 591.99

21.2, 592.41

1+30'ANW'

10 FT

10 FT

-60 -50 -40 -30 -20 -10 0 10 20 30 40 50 60 70

9

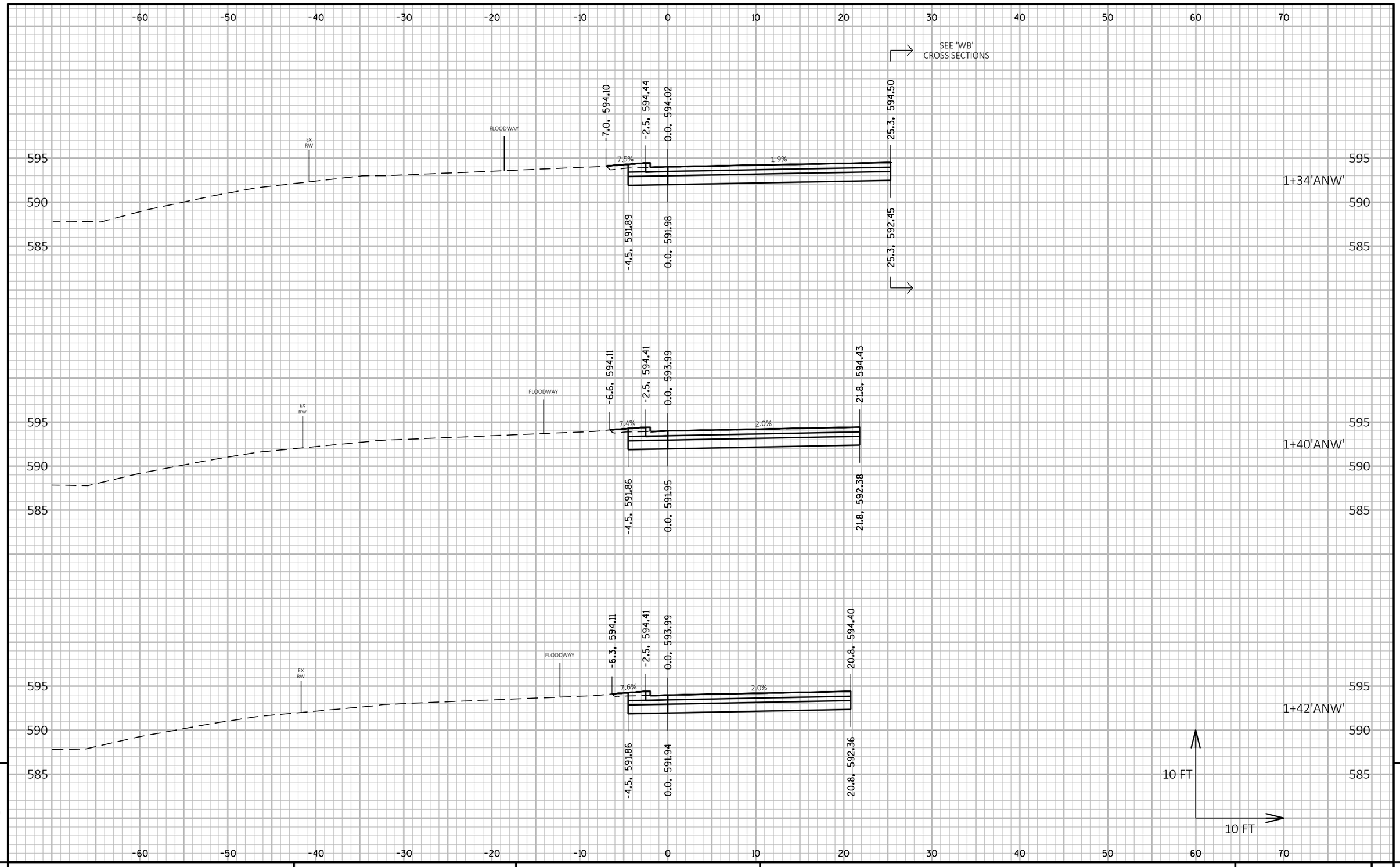
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PROJECT NO: 9266-11-03	HWY: CTH HH	COUNTY: BROWN	CROSS SECTIONS: STH 172 OFF RAMP - STAGE 3A	SHEET 316	E

FILE NAME : C:\USGBR1FP001\ATG\60543140\900_CAD_GIS\910_CAD\92661102\SHEETSPLAN\090201_XS_S3A.DWG
LAYOUT NAME - ANW5

PLOT DATE : 7/15/2019 2:48 PM PLOT BY : CZECH, ANDREW PLOT NAME : **PLOT SCALE :** 1 IN:10 FT HORZ. / 1 IN:10 FT VERT.

WISDOT/CADDS SHEET 49



9

9

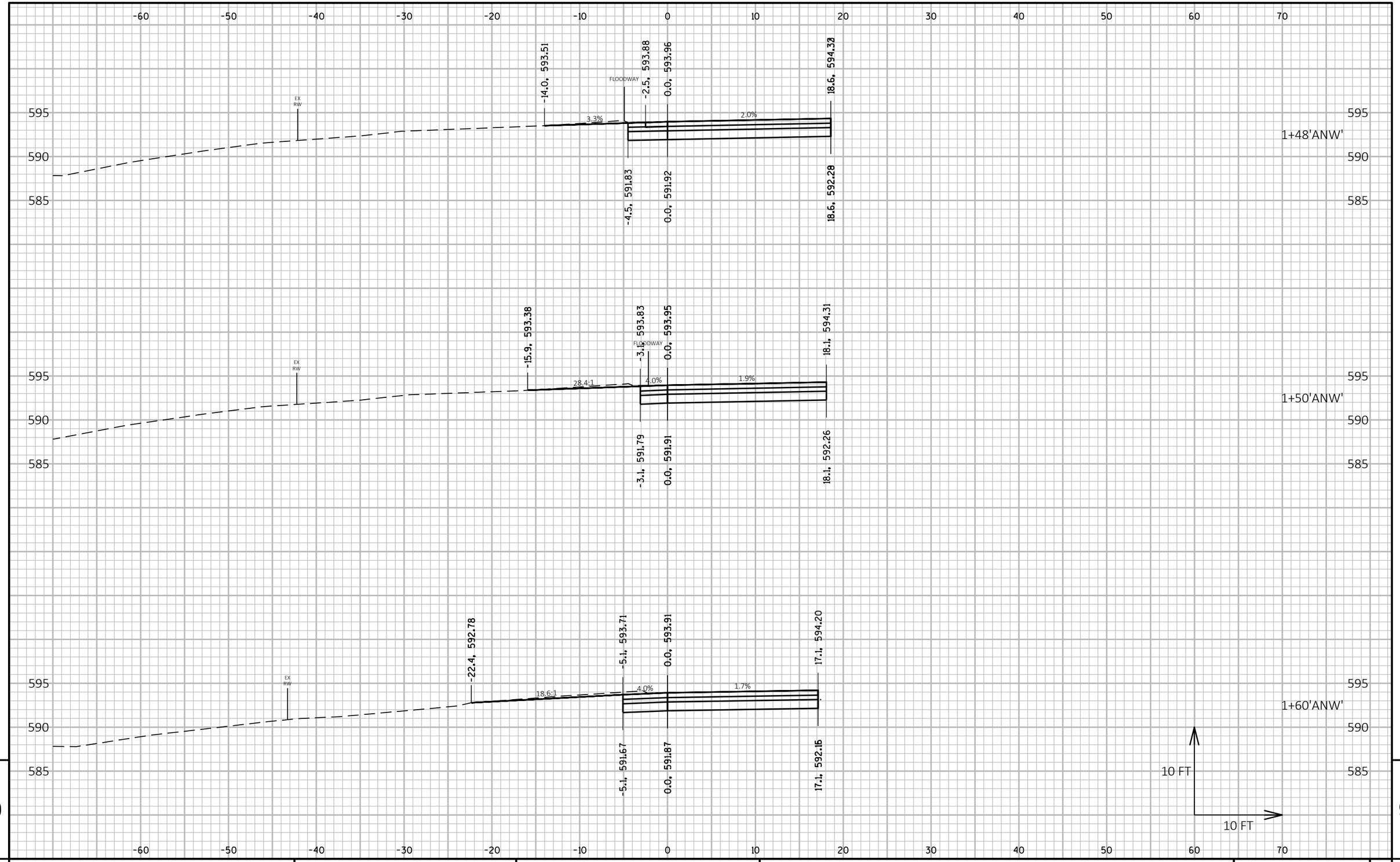
PROJECT NO: 9266-11-03	HWY: CTH HH	COUNTY: BROWN	CROSS SECTIONS: STH 172 OFF RAMP - STAGE 3A	SHEET 317	E

FILE NAME : C:\USGBR1FP001\ATG\60543140\900_CAD_GIS\910_CAD\92661102\SHEETSPLAN\090201_XS_S3A.DWG
LAYOUT NAME - ANW6

PLOT DATE : 7/15/2019 2:48 PM PLOT BY : CZECH, ANDREW PLOT NAME :

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

WISDOT/CADDS SHEET 49



9

9

PROJECT NO: 9266-11-03	HWY: CTH HH	COUNTY: BROWN	CROSS SECTIONS: STH 172 OFF RAMP - STAGE 3A	SHEET 318	E

FILE NAME : C:\USGBR1FP001\ATG\60543140\900_CAD_GIS\910_CAD\92661102\SHEETSPLAN\090201_XS_S3A.DWG
LAYOUT NAME - ANW7

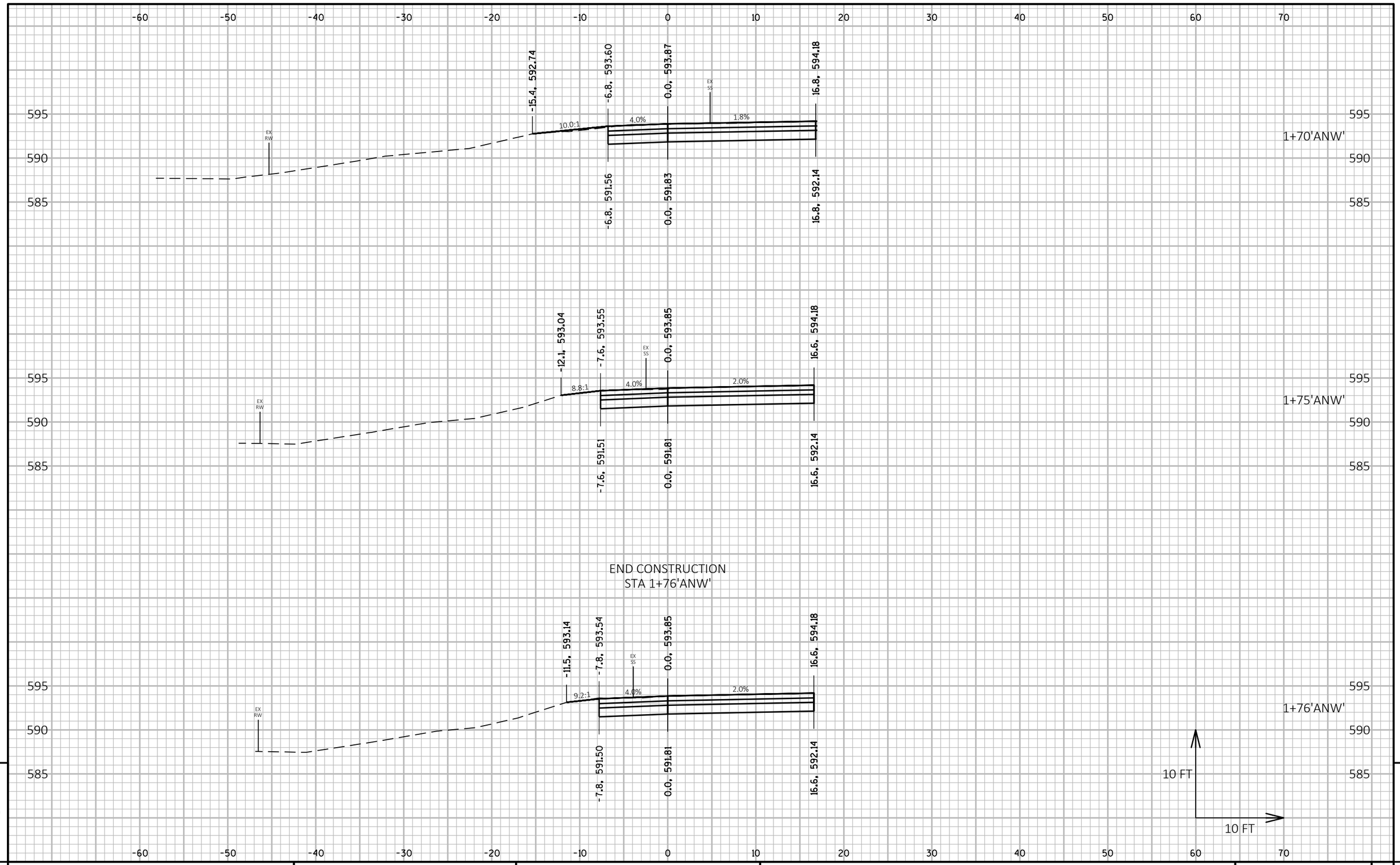
PLOT DATE : 7/15/2019 2:48 PM

PLOT BY : CZECH, ANDREW

PLOT NAME :

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

WISDOT/CADDS SHEET 49



9

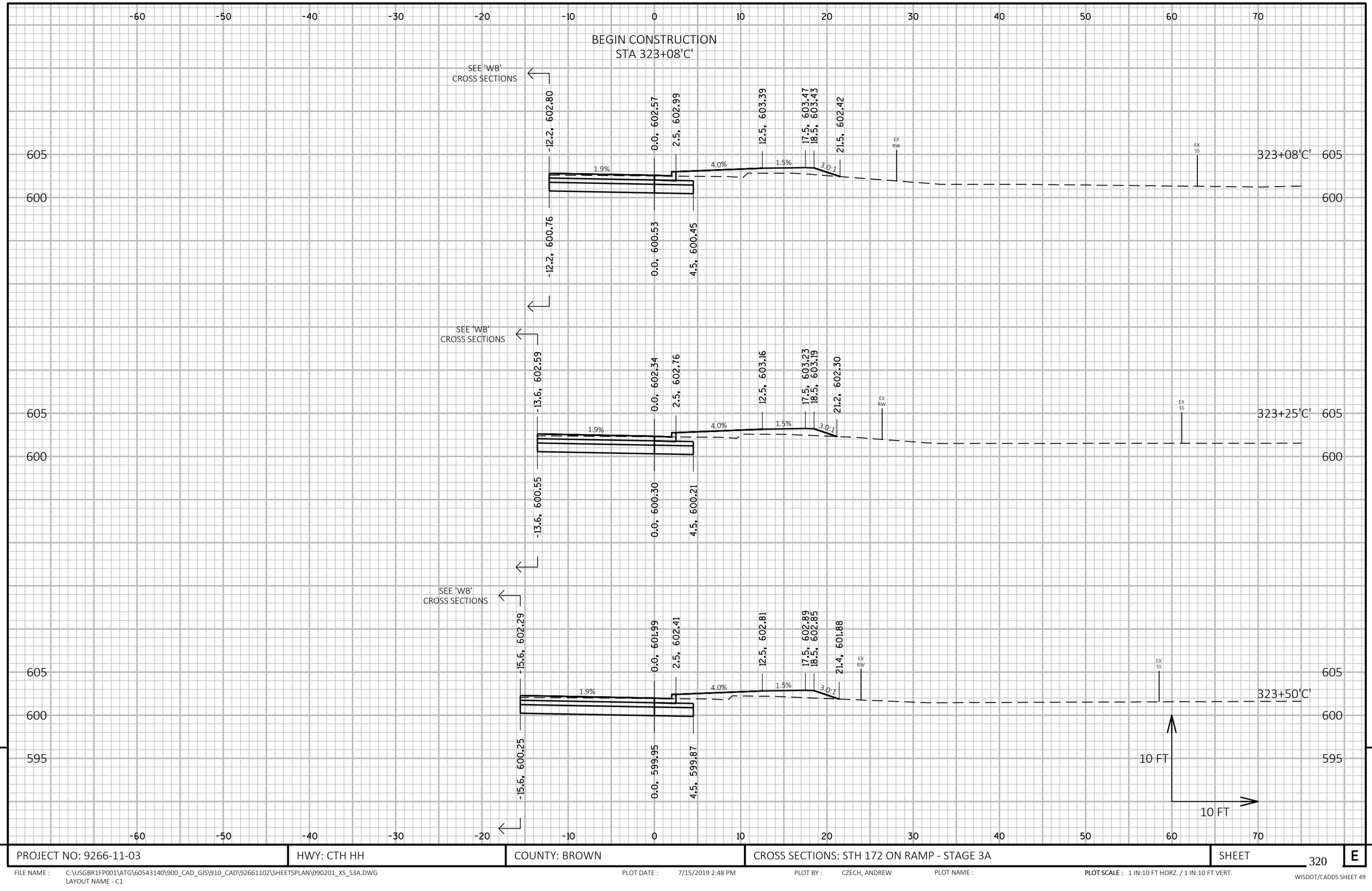
9

PROJECT NO: 9266-11-03	HWY: CTH HH	COUNTY: BROWN	CROSS SECTIONS: STH 172 OFF RAMP - STAGE 3A	SHEET 319	E

FILE NAME : C:\USGBR1FP001\ATG\60543140\900_CAD_GIS\910_CAD\92661102\SHEETSPLAN\090201_XS_S3A.DWG
LAYOUT NAME - ANW8

PLOT DATE : 7/15/2019 2:48 PM PLOT BY : CZECH, ANDREW PLOT NAME : PLOT SCALE : 1 IN:10 FT HORZ. / 1 IN:10 FT VERT.

WISDOT/CADDS SHEET 49



9

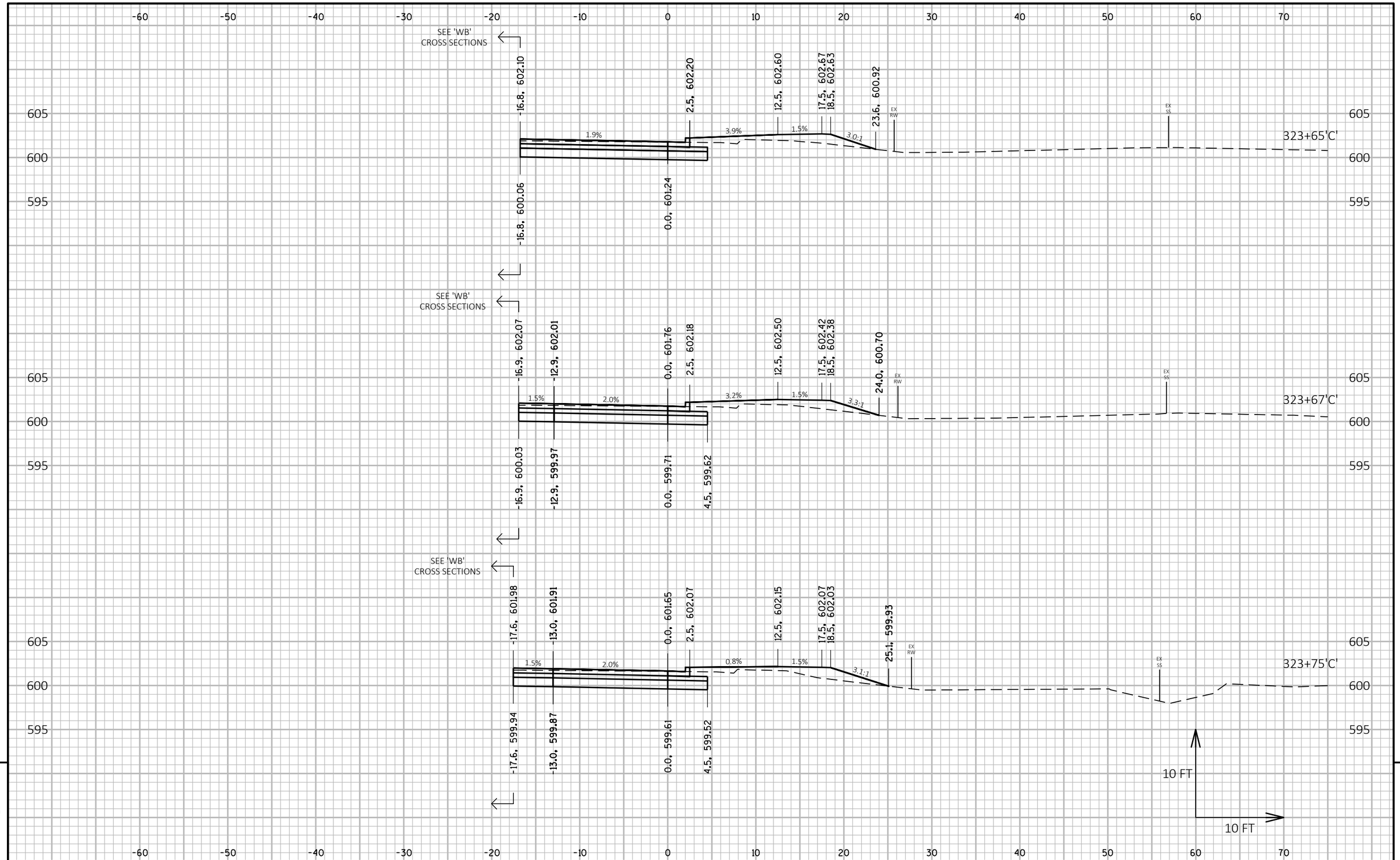
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PROJECT NO: 9266-11-03	HWY: CTH HH	COUNTY: BROWN	CROSS SECTIONS: STH 172 ON RAMP - STAGE 3A	SHEET 320	E

FILE NAME : C:\USGBR1FP001\ATG\60543140\900_CAD_GIS\910_CAD\92661102\SHEETSPLAN\090201_XS_S3A.DWG
LAYOUT NAME - C1

PLOT DATE : 7/15/2019 2:48 PM PLOT BY : CZECH, ANDREW PLOT NAME : **PLOT SCALE :** 1 IN:10 FT HORZ. / 1 IN:10 FT VERT.

WISDOT/CADDS SHEET 49



9

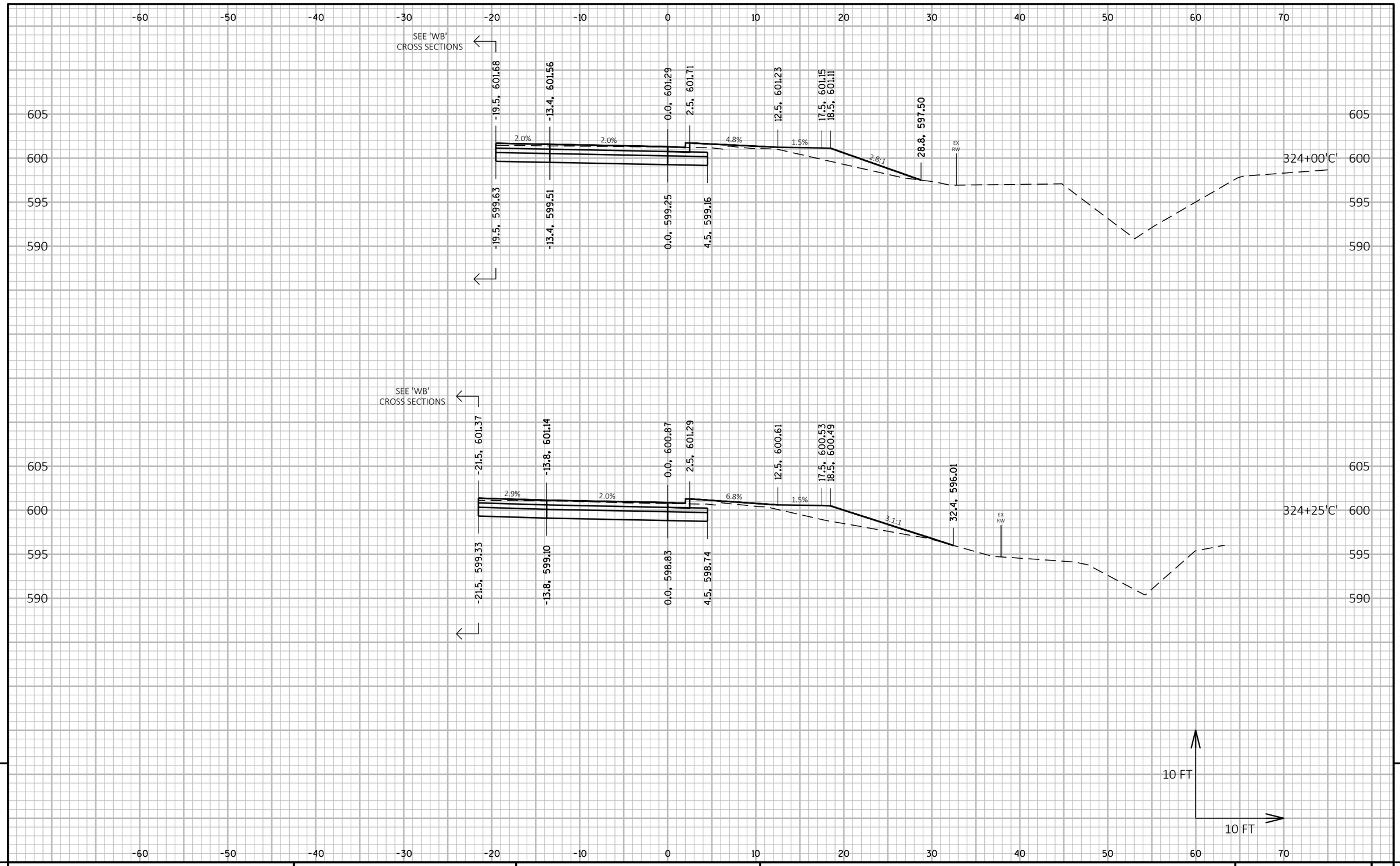
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PROJECT NO: 9266-11-03	HWY: CTH HH	COUNTY: BROWN	CROSS SECTIONS: STH 172 ON RAMP - STAGE 3A	SHEET 321	E

FILE NAME : C:\USGBR1FP001\ATG\60543140\900_CAD_GIS\910_CAD\92661102\SHEETSPLAN\090201_XS_S3A.DWG
LAYOUT NAME - C2

PLOT DATE : 7/15/2019 2:48 PM PLOT BY : CZECH, ANDREW PLOT NAME : **PLOT SCALE :** 1 IN:10 FT HORZ. / 1 IN:10 FT VERT.

WISDOT/CADDS SHEET 49



9

9

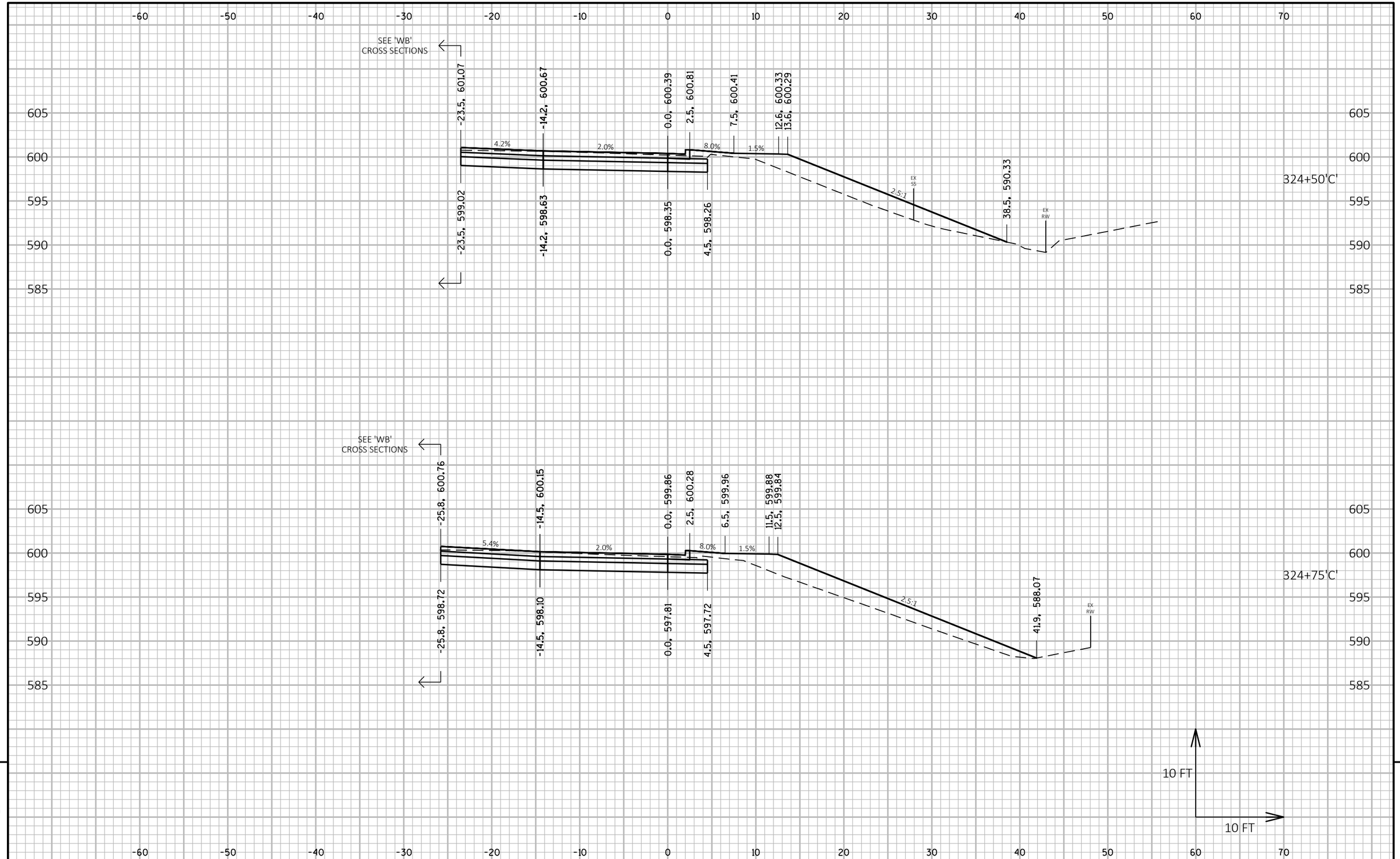
PROJECT NO: 9266-11-03	HWY: CTH HH	COUNTY: BROWN	CROSS SECTIONS: STH 172 ON RAMP - STAGE 3A	SHEET 322	E

FILE NAME : C:\USGBR1FP001\ATG\60543140\900_CAD_GIS\910_CAD\92661102\SHEETSPLAN\090201_XS_S3A.DWG
LAYOUT NAME - C3

PLOT DATE : 7/15/2019 2:48 PM PLOT BY : CZECH, ANDREW PLOT NAME :

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

WISDOT/CADDS SHEET 49



9

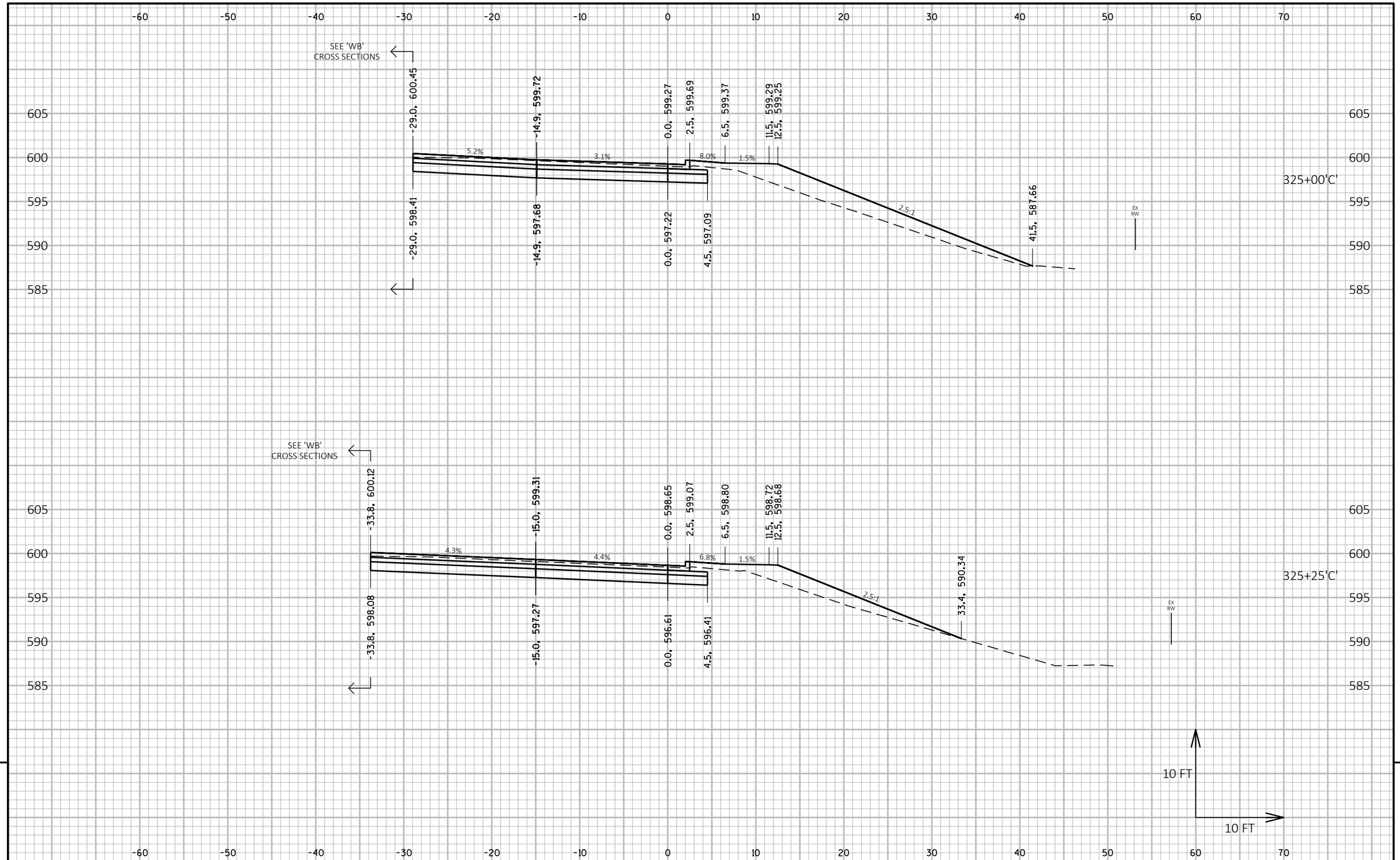
9

PROJECT NO: 9266-11-03	HWY: CTH HH	COUNTY: BROWN	CROSS SECTIONS: STH 172 ON RAMP - STAGE 3A	SHEET 323	E

FILE NAME : C:\USGBR1FP001\ATG\60543140\900_CAD_GIS\910_CAD\92661102\SHEETSPLAN\090201_XS_S3A.DWG
LAYOUT NAME - C4

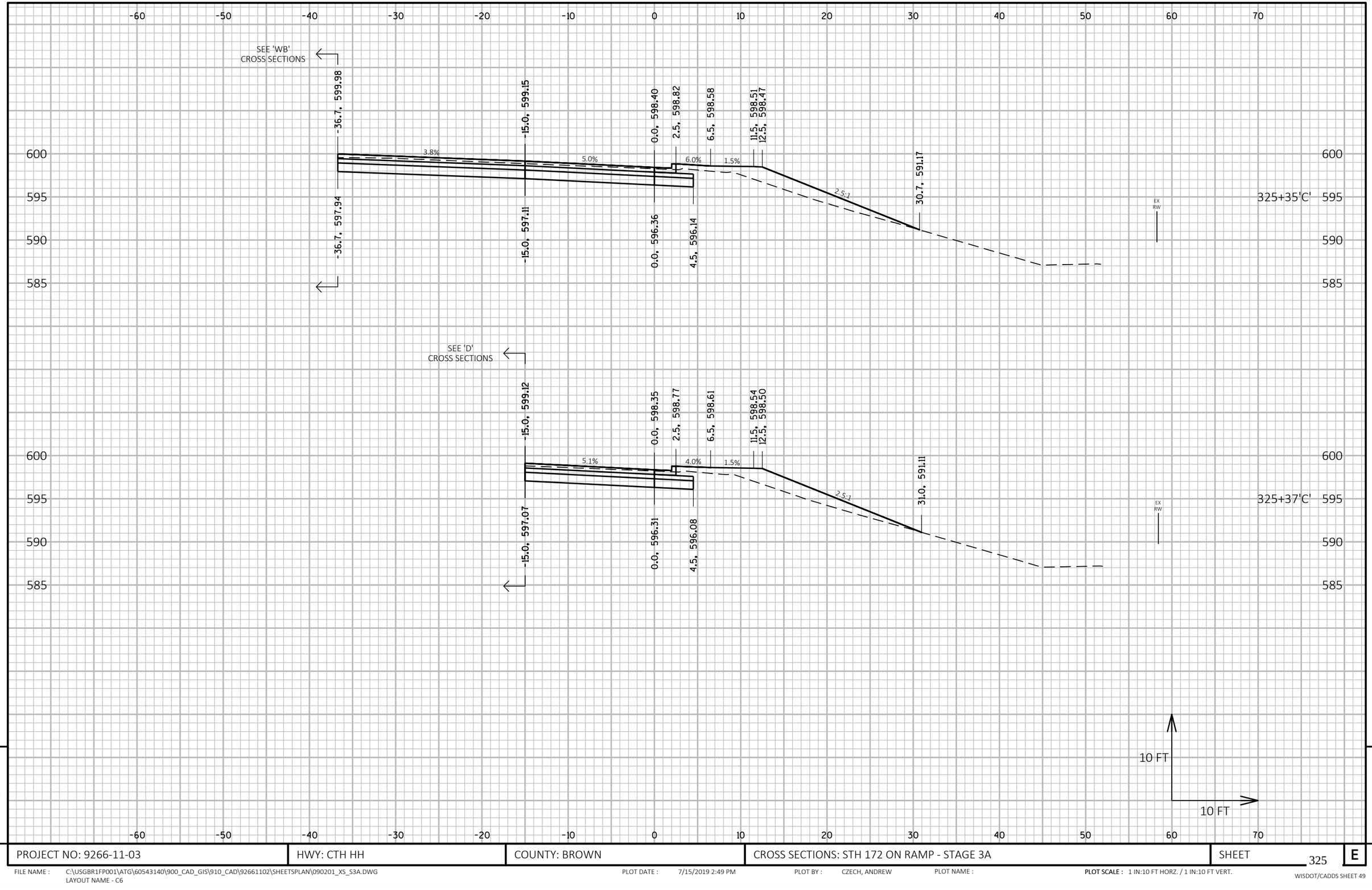
PLOT DATE : 7/15/2019 2:48 PM PLOT BY : CZECH, ANDREW PLOT NAME : PLOT SCALE : 1 IN:10 FT HORZ. / 1 IN:10 FT VERT.

WISDOT/CADDS SHEET 49



PROJECT NO: 9266-11-03	HWY: CTH HH	COUNTY: BROWN	CROSS SECTIONS: STH 172 ON RAMP - STAGE 3A	SHEET 324	E

FILE NAME : C:\USGBR1FP001\ATG\60543140\900_CAD_GIS\910_CAD\92661102\SHEETSPLAN\090201_XS_S3A.DWG
LAYOUT NAME - C5
PLOT DATE : 7/15/2019 2:48 PM
PLOT BY : CZECH, ANDREW
PLOT NAME :
PLOT SCALE : 1 IN:10 FT HORZ. / 1 IN:10 FT VERT.
WISDOT/CADDS SHEET 49

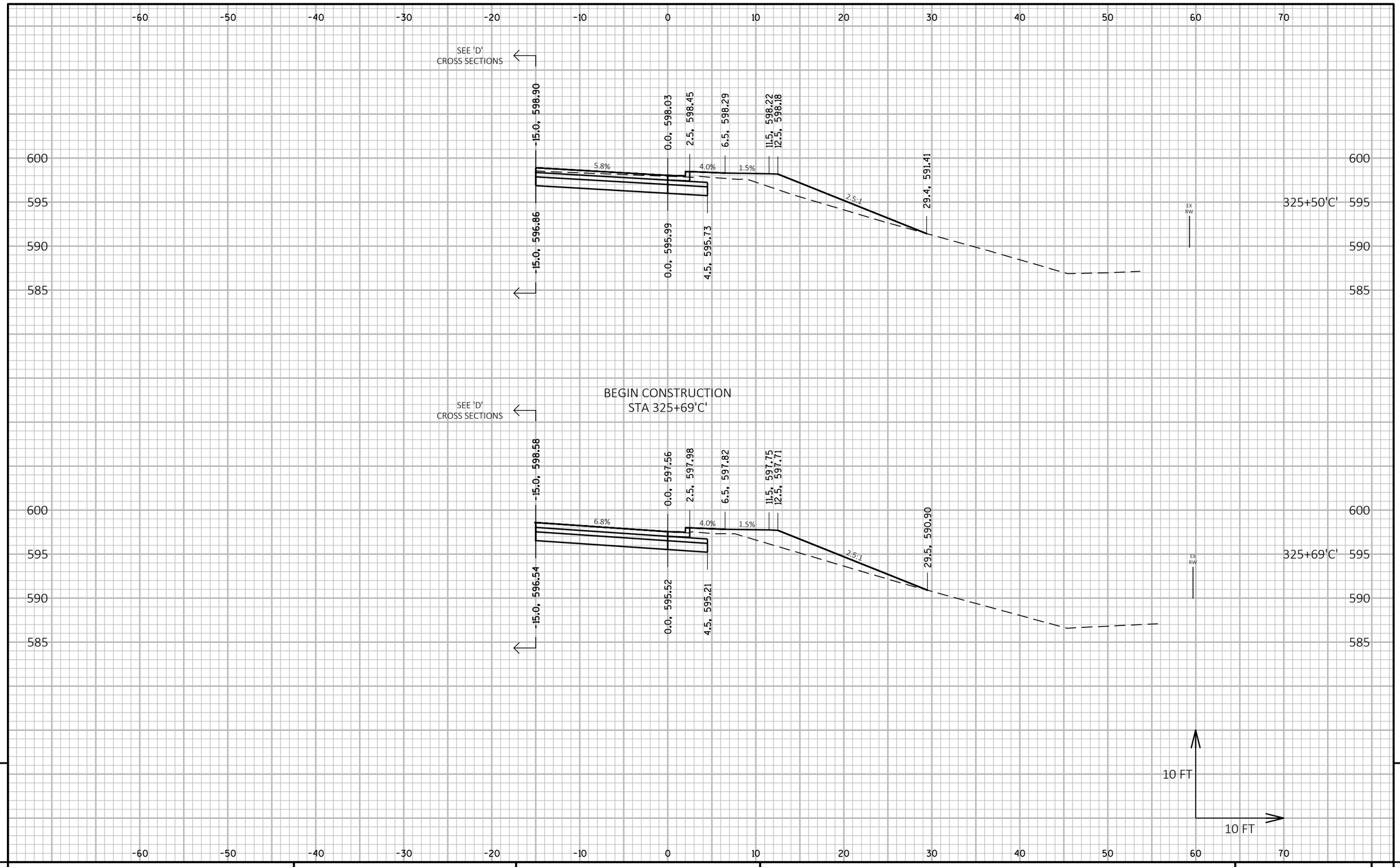


PROJECT NO: 9266-11-03	HWY: CTH HH	COUNTY: BROWN	CROSS SECTIONS: STH 172 ON RAMP - STAGE 3A	SHEET 325	E

FILE NAME : C:\USGBR1FP001\ATG\60543140\900_CAD_GIS\910_CAD\92661102\SHEETSPLAN\090201_XS_S3A.DWG
LAYOUT NAME - C6

PLOT DATE : 7/15/2019 2:49 PM PLOT BY : CZECH, ANDREW PLOT NAME : PLOT SCALE : 1 IN:10 FT HORZ. / 1 IN:10 FT VERT.

WISDOT/CADDS SHEET 49



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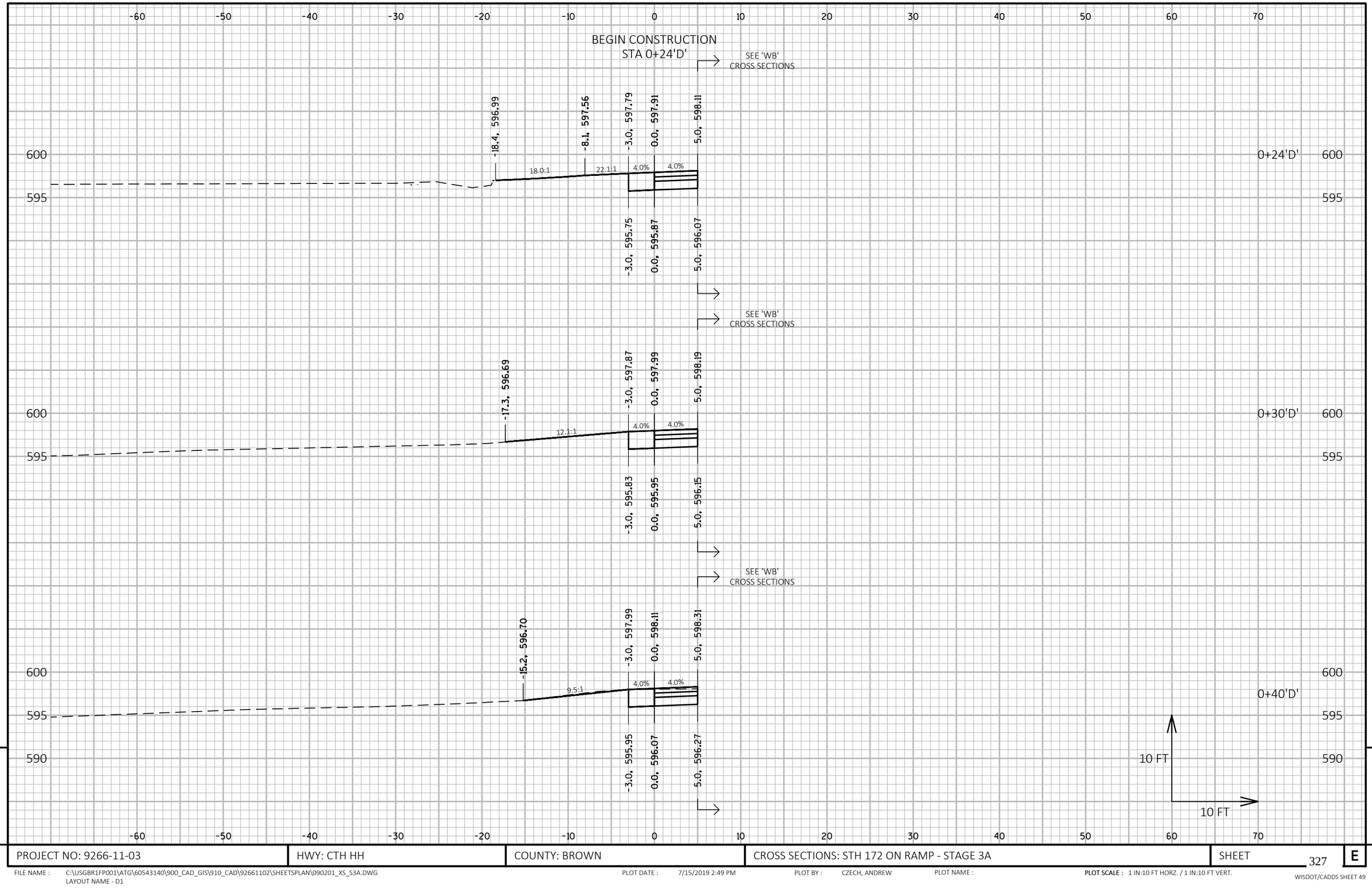
PROJECT NO: 9266-11-03	HWY: CTH HH	COUNTY: BROWN	CROSS SECTIONS: STH 172 ON RAMP - STAGE 3A	SHEET 326	E

FILE NAME : C:\USGBR1FP001\ATG\60543140\900_CAD_GIS\910_CAD\92661102\SHEETSPLAN\090201_XS_S3A.DWG
LAYOUT NAME - C7

PLOT DATE : 7/15/2019 2:49 PM PLOT BY : CZECH, ANDREW PLOT NAME :

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

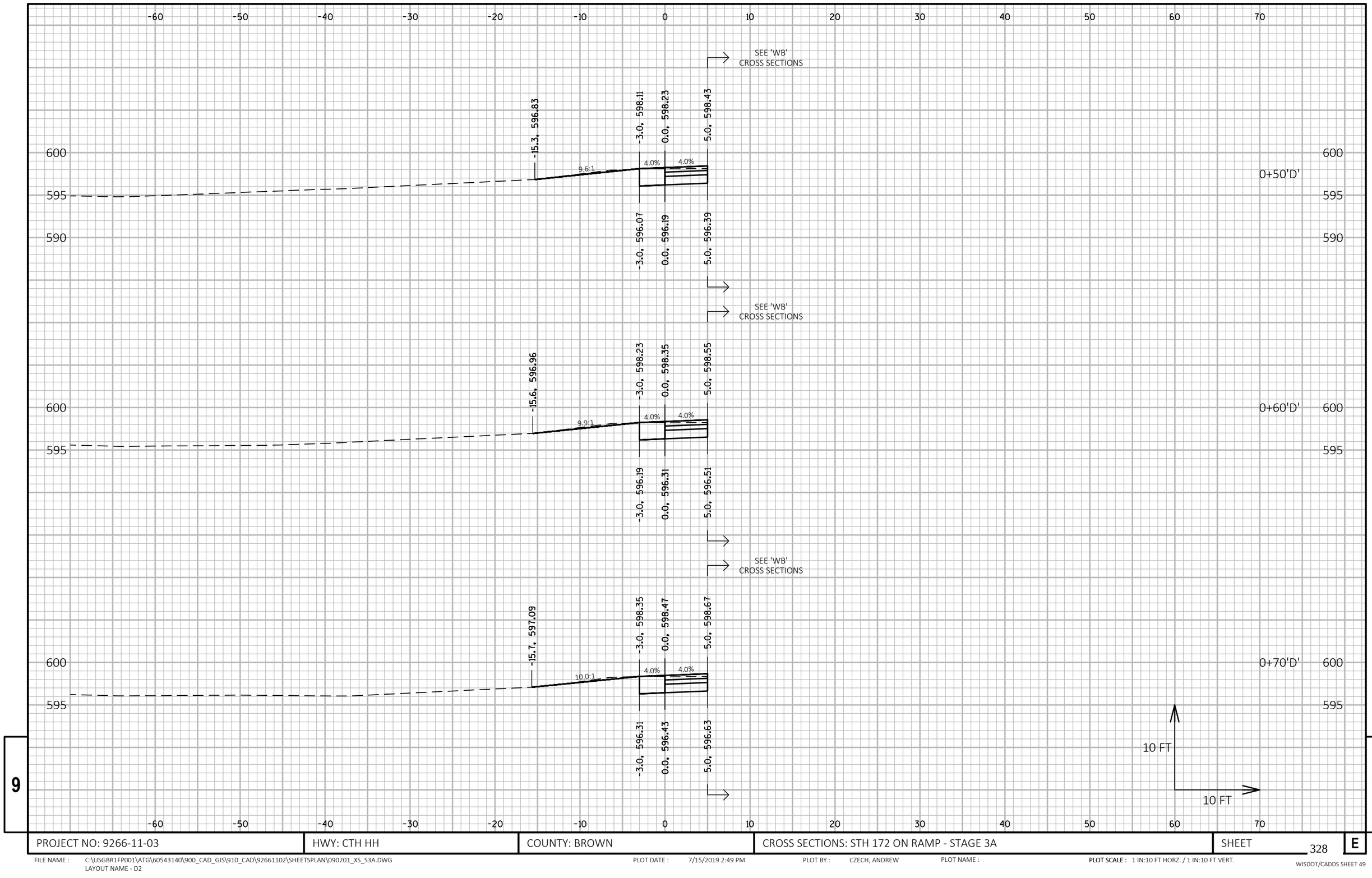
WISDOT/CADDS SHEET 49



PROJECT NO: 9266-11-03	HWY: CTH HH	COUNTY: BROWN	CROSS SECTIONS: STH 172 ON RAMP - STAGE 3A	SHEET 327	E

FILE NAME : C:\USGBR1FP001\ATG\60543140\900_CAD_GIS\910_CAD\92661102\SHEETSPLAN\090201_XS_S3A.DWG
LAYOUT NAME - D1

PLOT DATE : 7/15/2019 2:49 PM PLOT BY : CZECH, ANDREW PLOT NAME : **PLOT SCALE :** 1 IN:10 FT HORZ. / 1 IN:10 FT VERT.

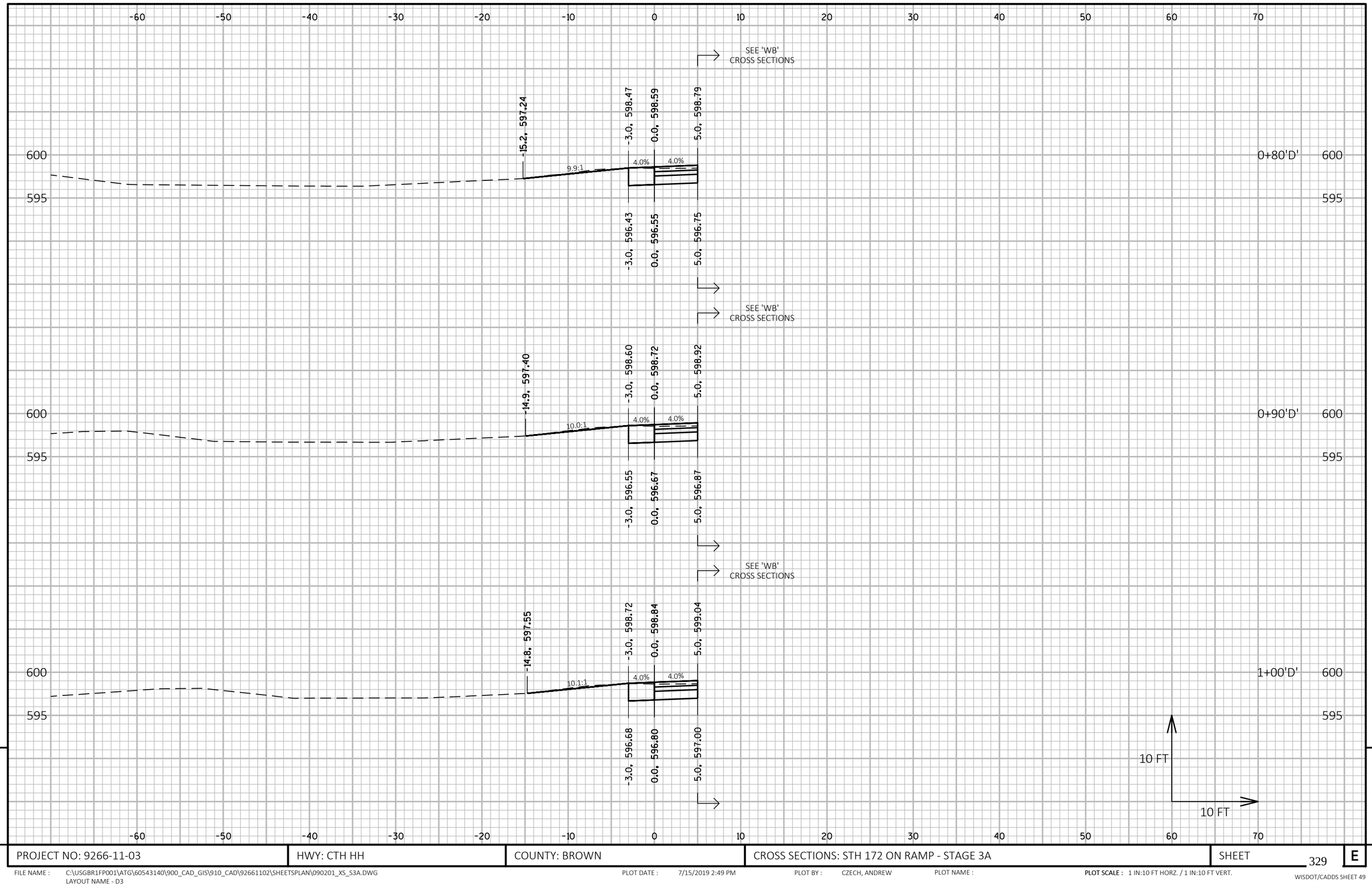


PROJECT NO: 9266-11-03	HWY: CTH HH	COUNTY: BROWN	CROSS SECTIONS: STH 172 ON RAMP - STAGE 3A	SHEET 328	E

FILE NAME : C:\USGBR1FP001\ATG\60543140\900_CAD_GIS\910_CAD\92661102\SHEETSPLAN\090201_XS_S3A.DWG
LAYOUT NAME - D2

PLOT DATE : 7/15/2019 2:49 PM PLOT BY : CZECH, ANDREW PLOT NAME : PLOT SCALE : 1 IN:10 FT HORZ. / 1 IN:10 FT VERT.

WISDOT/CADDS SHEET 49

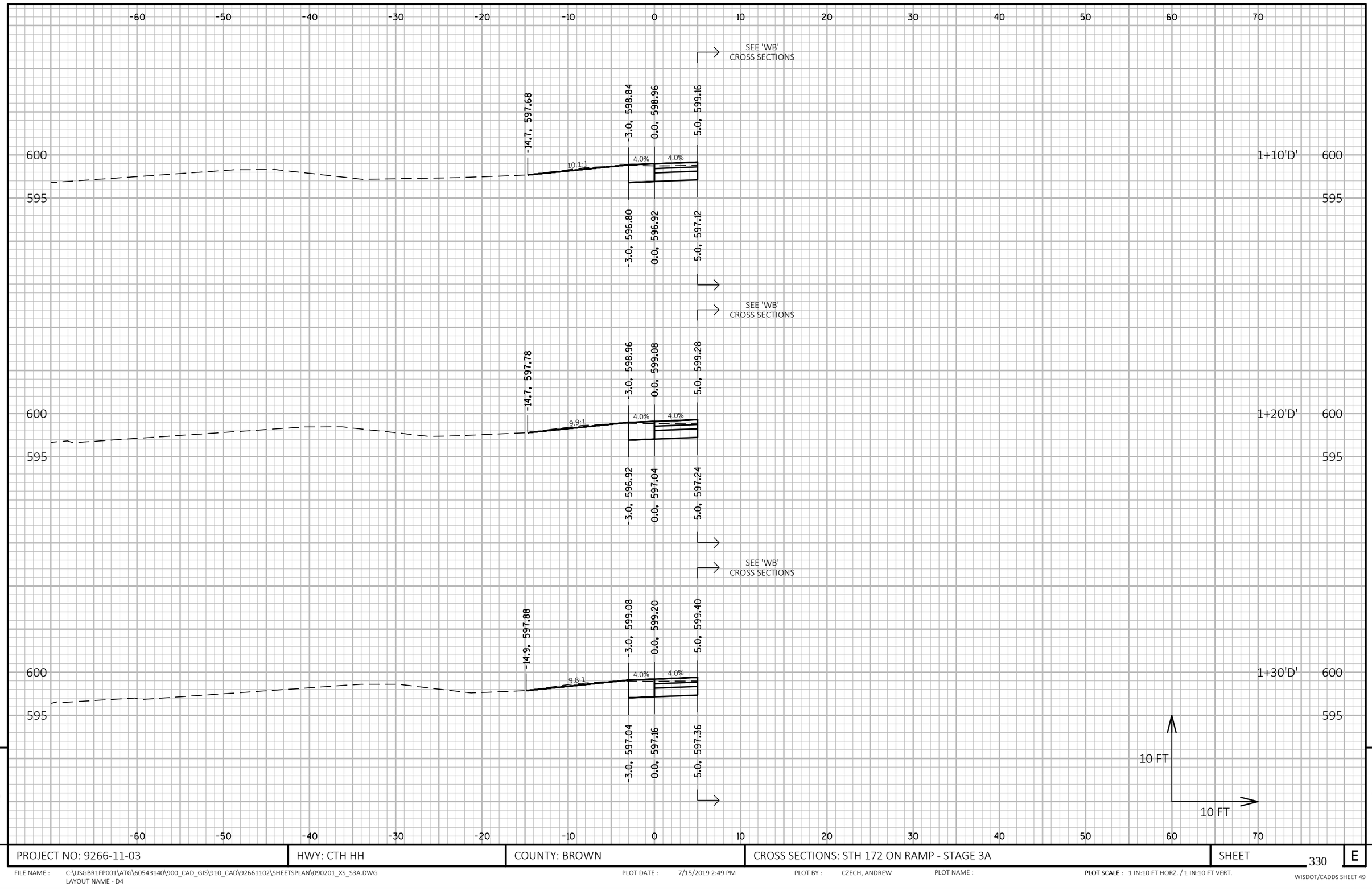


PROJECT NO: 9266-11-03	HWY: CTH HH	COUNTY: BROWN	CROSS SECTIONS: STH 172 ON RAMP - STAGE 3A	SHEET 329 E

FILE NAME : C:\USGBR1FP001\ATG\60543140\900_CAD_GIS\910_CAD\92661102\SHEETSPLAN\090201_XS_S3A.DWG
LAYOUT NAME - D3

PLOT DATE : 7/15/2019 2:49 PM PLOT BY : CZECH, ANDREW PLOT NAME : **PLOT SCALE :** 1 IN:10 FT HORZ. / 1 IN:10 FT VERT.

WISDOT/CADDS SHEET 49



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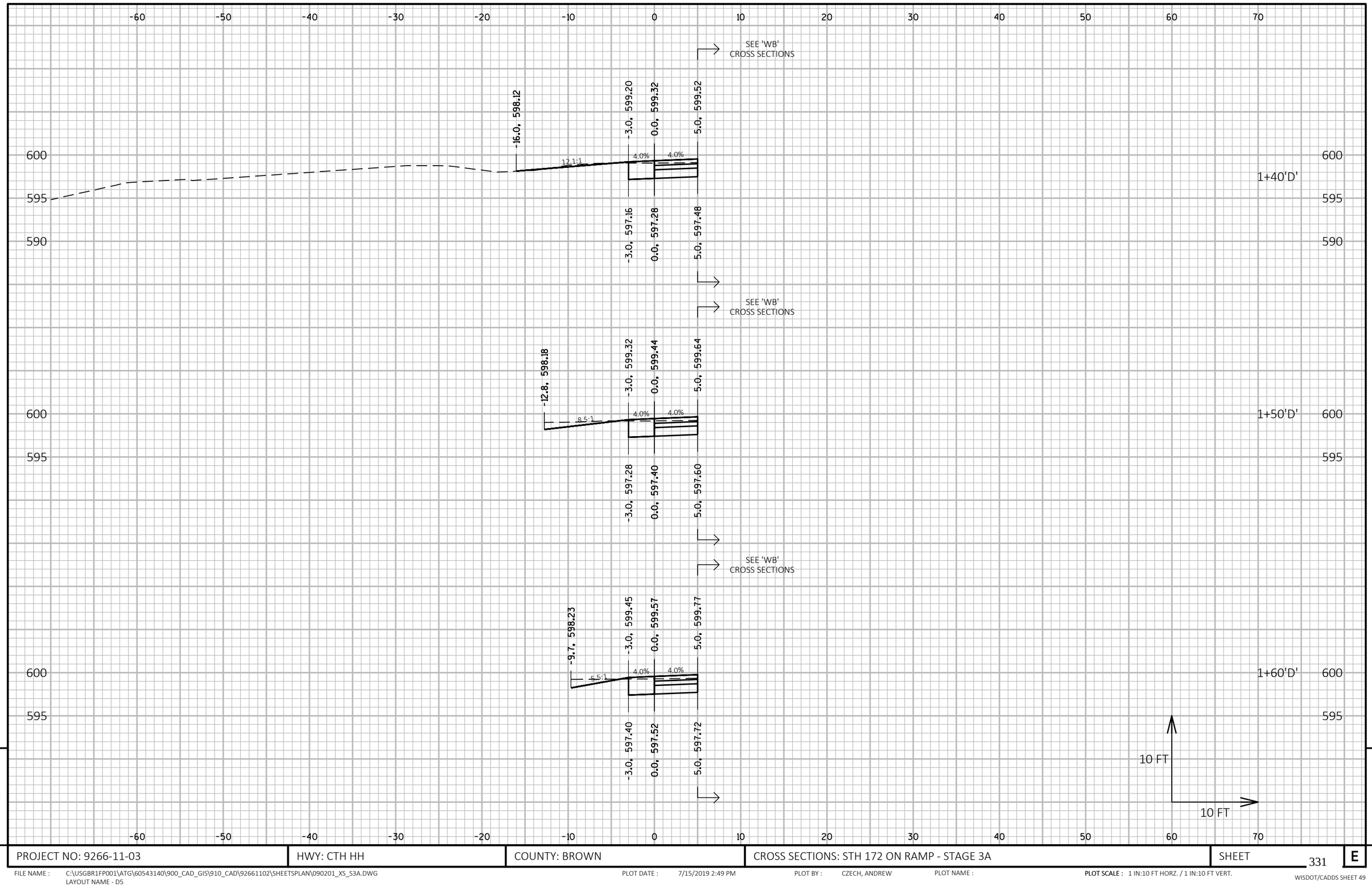
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PROJECT NO: 9266-11-03	HWY: CTH HH	COUNTY: BROWN	CROSS SECTIONS: STH 172 ON RAMP - STAGE 3A	SHEET 330	E

FILE NAME : C:\USGBR1FP001\ATG\60543140\900_CAD_GIS\910_CAD\92661102\SHEETSPLAN\090201_XS_S3A.DWG
LAYOUT NAME - D4

PLOT DATE : 7/15/2019 2:49 PM PLOT BY : CZECH, ANDREW PLOT NAME : **PLOT SCALE :** 1 IN:10 FT HORZ. / 1 IN:10 FT VERT.

WISDOT/CADDS SHEET 49



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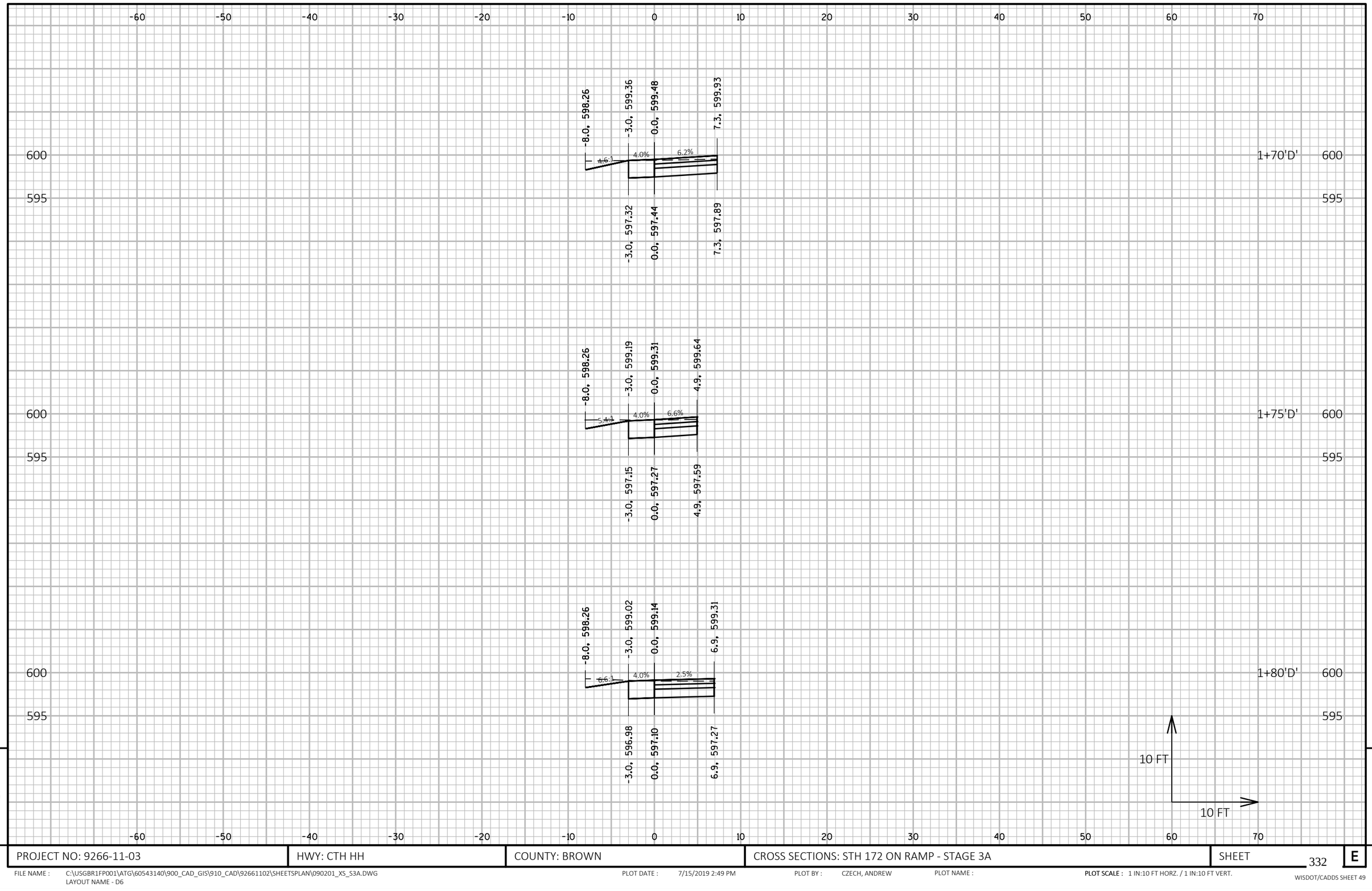
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PROJECT NO: 9266-11-03	HWY: CTH HH	COUNTY: BROWN	CROSS SECTIONS: STH 172 ON RAMP - STAGE 3A	SHEET 331	E

FILE NAME : C:\USGBR1FP001\ATG\60543140\900_CAD_GIS\910_CAD\92661102\SHEETSPLAN\090201_XS_S3A.DWG
LAYOUT NAME - D5

PLOT DATE : 7/15/2019 2:49 PM PLOT BY : CZECH, ANDREW PLOT NAME : **PLOT SCALE :** 1 IN:10 FT HORZ. / 1 IN:10 FT VERT.

WISDOT/CADDS SHEET 49



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PROJECT NO: 9266-11-03	HWY: CTH HH	COUNTY: BROWN	CROSS SECTIONS: STH 172 ON RAMP - STAGE 3A	SHEET 332	E

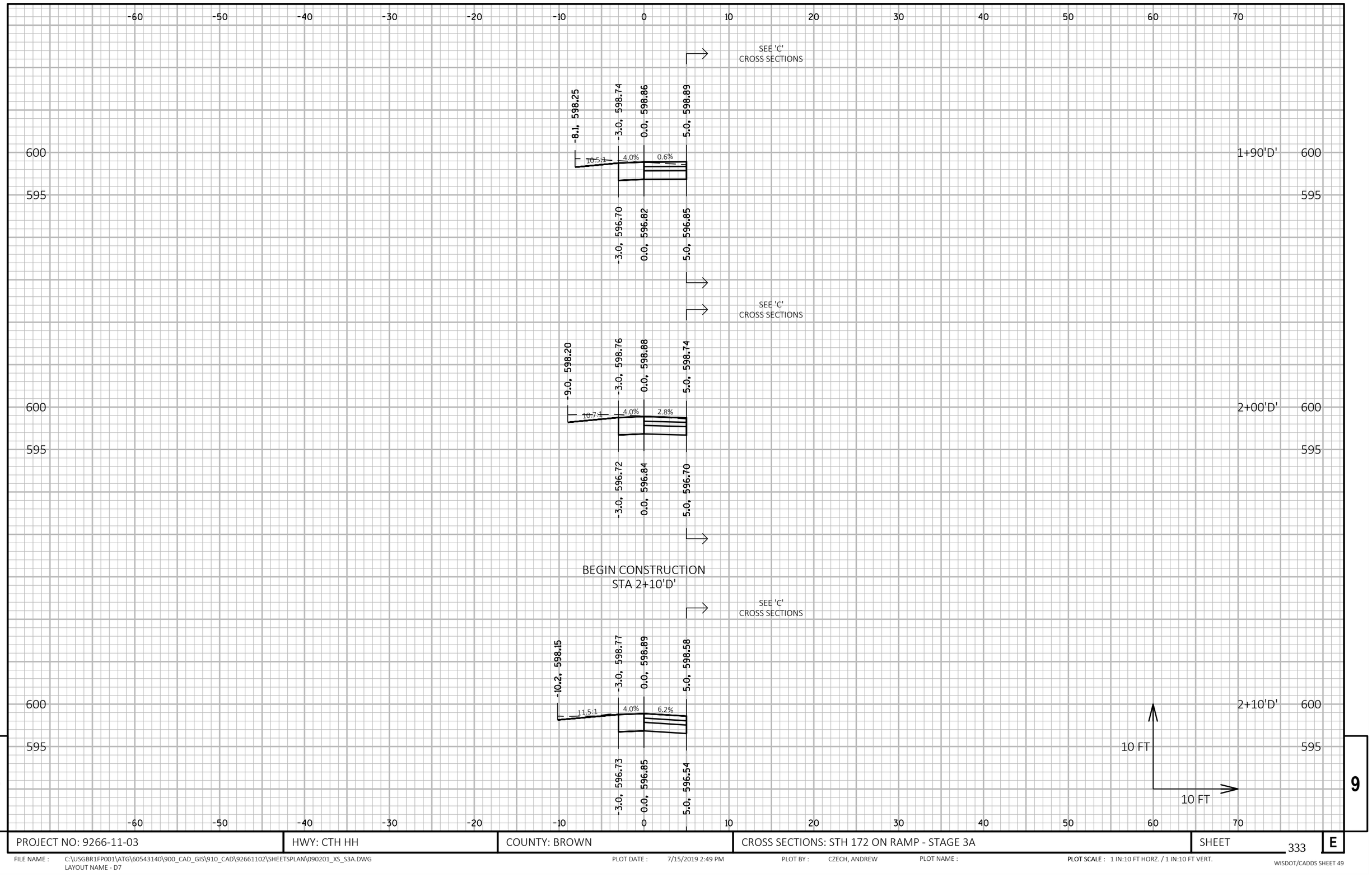
FILE NAME : C:\USGBR1FP001\ATG\60543140\900_CAD_GIS\910_CAD\92661102\SHEETSPLAN\090201_XS_S3A.DWG
LAYOUT NAME - D6

PLOT DATE : 7/15/2019 2:49 PM

PLOT BY : CZECH, ANDREW

PLOT NAME :

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



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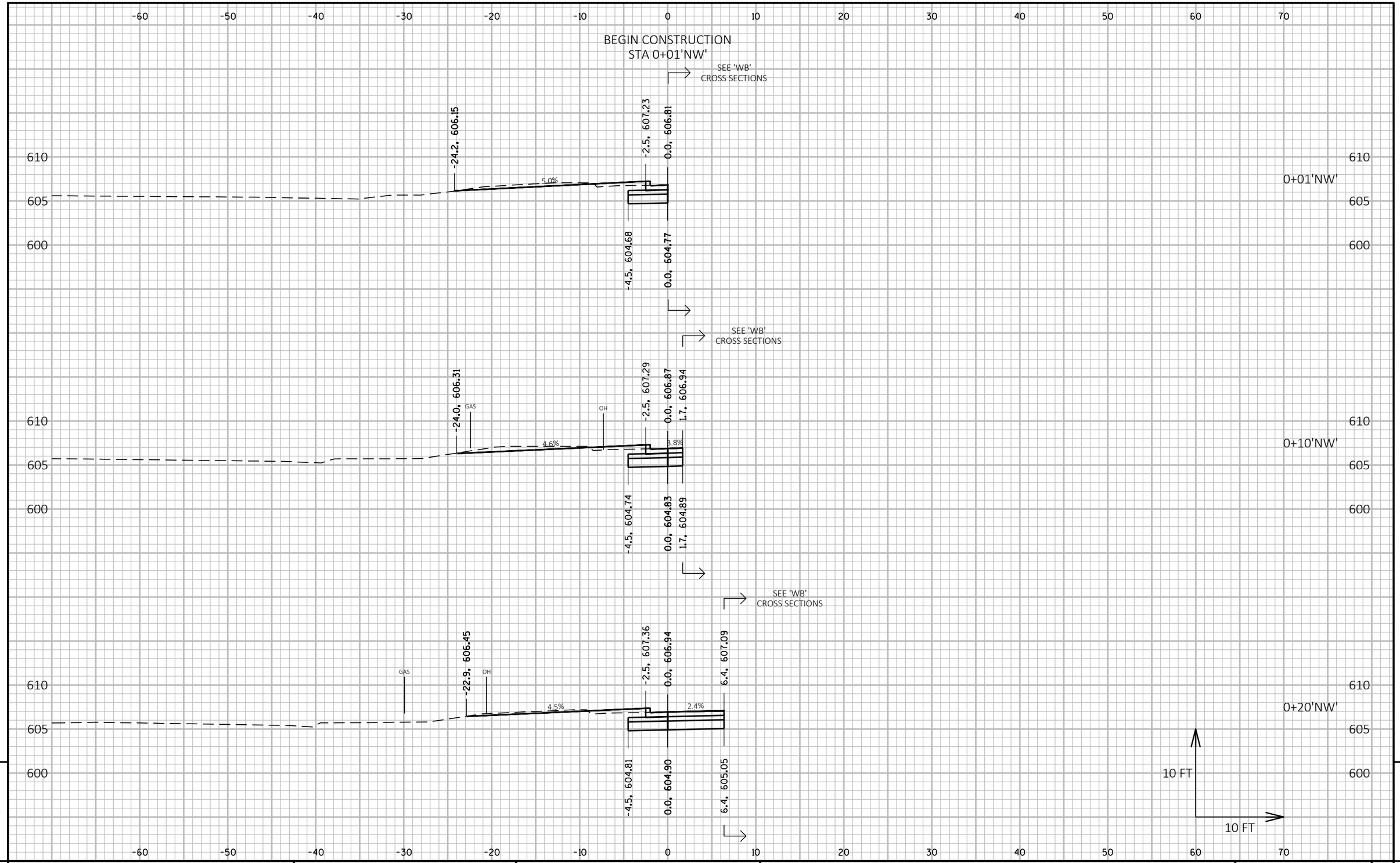
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PROJECT NO: 9266-11-03	HWY: CTH HH	COUNTY: BROWN	CROSS SECTIONS: STH 172 ON RAMP - STAGE 3A	SHEET 333	E

FILE NAME : C:\USGBR1FP001\ATG\60543140\900_CAD_GIS\910_CAD\92661102\SHEETSPLAN\090201_XS_S3A.DWG
LAYOUT NAME - D7

PLOT DATE : 7/15/2019 2:49 PM PLOT BY : CZECH, ANDREW PLOT NAME : PLOT SCALE : 1 IN:10 FT HORZ. / 1 IN:10 FT VERT.

WISDOT/CADDS SHEET 49



9

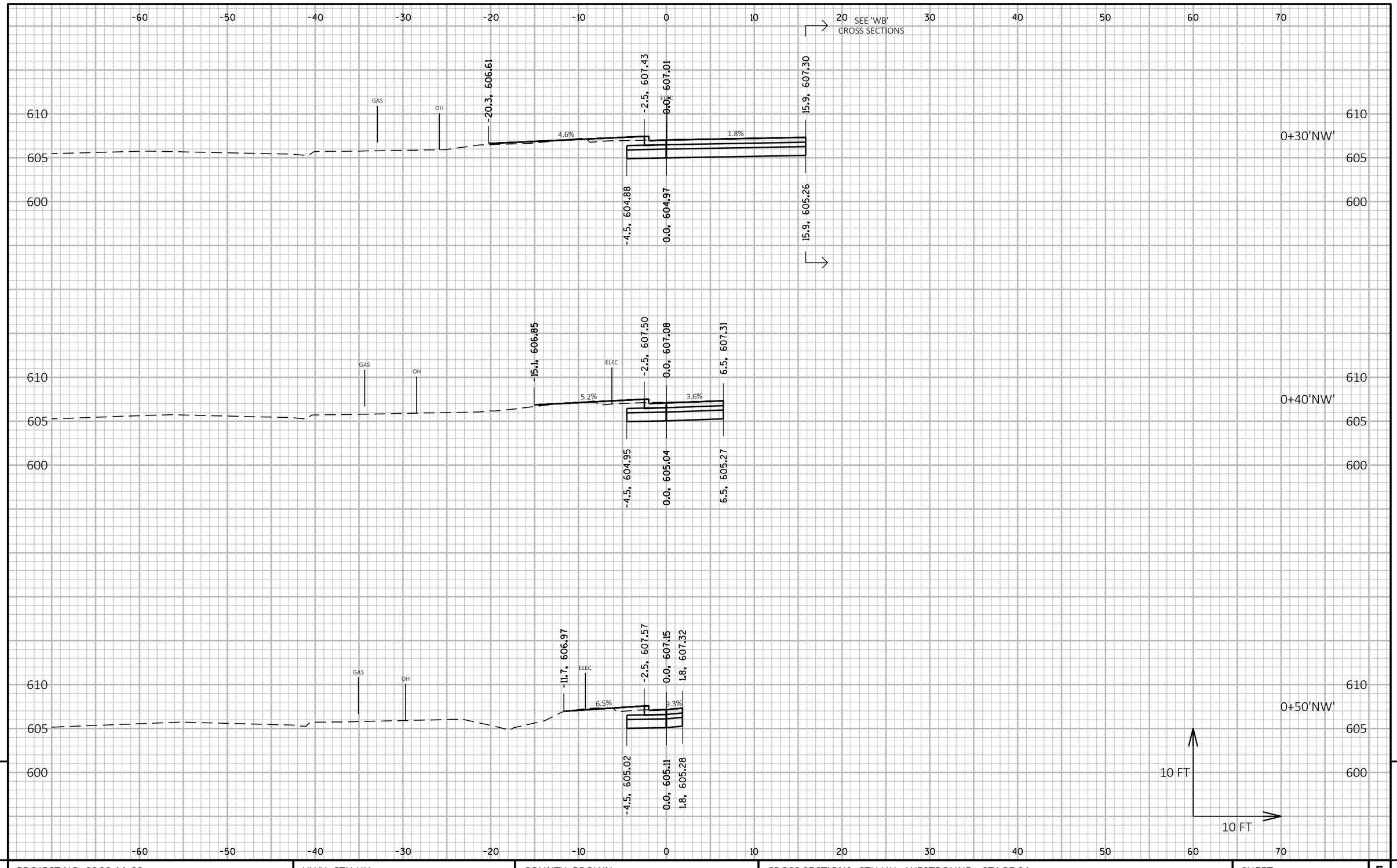
9

PROJECT NO: 9266-11-03	HWY: CTH HH	COUNTY: BROWN	CROSS SECTIONS: CTH HH - WESTBOUND - STAGE 3A	SHEET 334	E

FILE NAME : C:\USGBR1FP001\ATG\60543140\900_CAD_GIS\910_CAD\92661102\SHEETSPLAN\090201_XS_S3A.DWG
LAYOUT NAME - NW1

PLOT DATE : 7/15/2019 2:49 PM PLOT BY : CZECH, ANDREW PLOT NAME : **PLOT SCALE :** 1 IN:10 FT HORZ. / 1 IN:10 FT VERT.

WISDOT/CADDS SHEET 49



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PROJECT NO: 9266-11-03	HWY: CTH HH	COUNTY: BROWN	CROSS SECTIONS: CTH HH - WESTBOUND - STAGE 3A	SHEET 335	E

FILE NAME : C:\USGBR1FP001\ATG\60543140\900_CAD_GIS\910_CAD\92661102\SHEETSPLAN\090201_XS_S3A.DWG
LAYOUT NAME - NW2

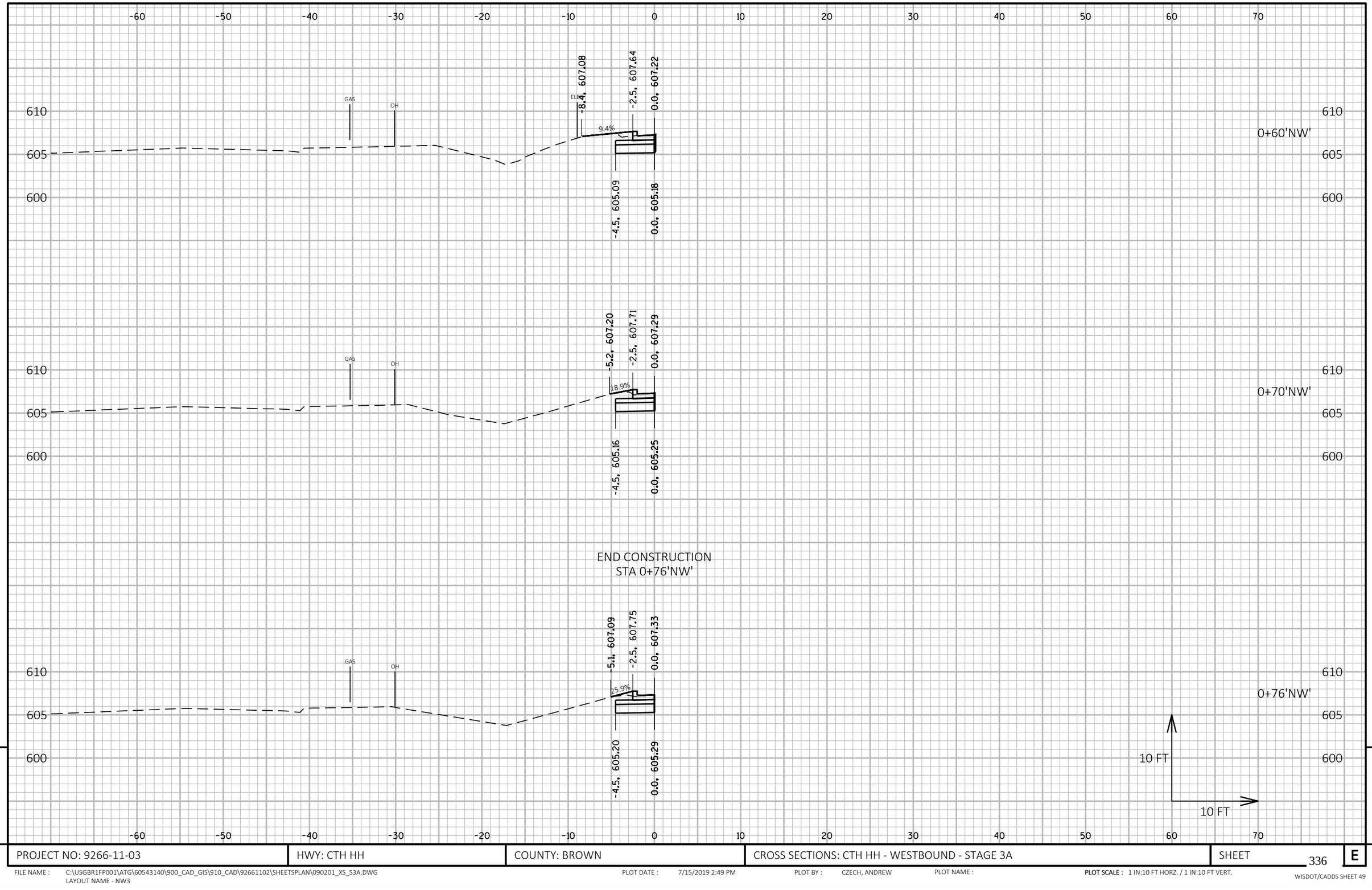
PLOT DATE : 7/15/2019 2:49 PM

PLOT BY : CZECH, ANDREW

PLOT NAME :

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

WISDOT/CADDS SHEET 49



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9

PROJECT NO: 9266-11-03	HWY: CTH HH	COUNTY: BROWN	CROSS SECTIONS: CTH HH - WESTBOUND - STAGE 3A	SHEET 336	E

FILE NAME : C:\USGBR1FP001\ATG\60543140\900_CAD_GIS\910_CAD\92661102\SHEETSPLAN\090201_XS_S3A.DWG
LAYOUT NAME - NW3

PLOT DATE : 7/15/2019 2:49 PM PLOT BY : CZECH, ANDREW PLOT NAME : **PLOT SCALE :** 1 IN:10 FT HORZ. / 1 IN:10 FT VERT.

WISDOT/CADDS SHEET 49

Notes

Wisconsin Department of Transportation

Dedicated people creating transportation solutions
through innovation and exceptional service.

http://www.dot.wisconsin.gov