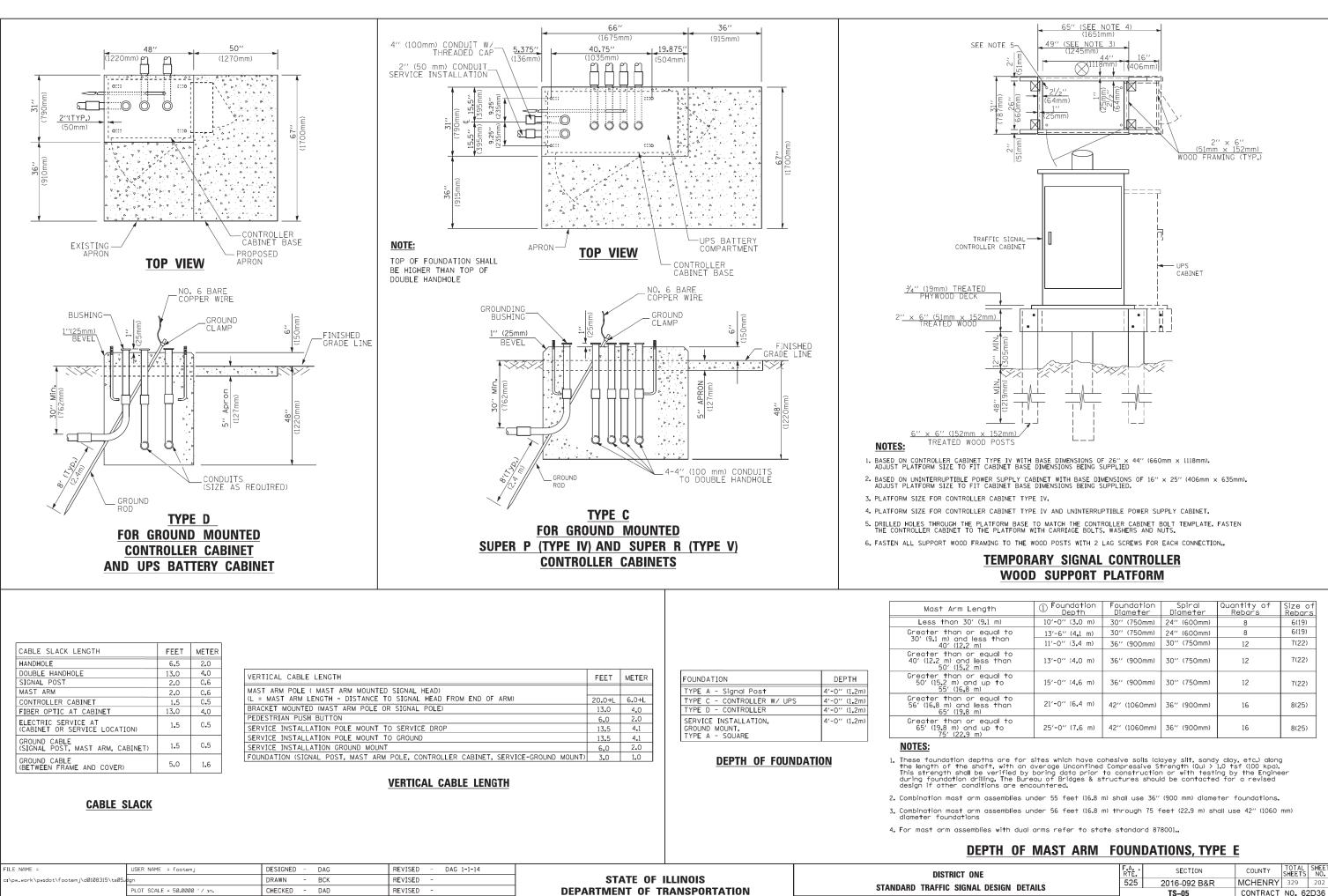


SHTER & WOODMAN, INC. LINOIS DEFE

20



SCALE: NONE

SHEET NO. 5 OF 7 SHEETS

50 SHTESINO. LINOIS TST

PLOT DATE = 1/13/2014

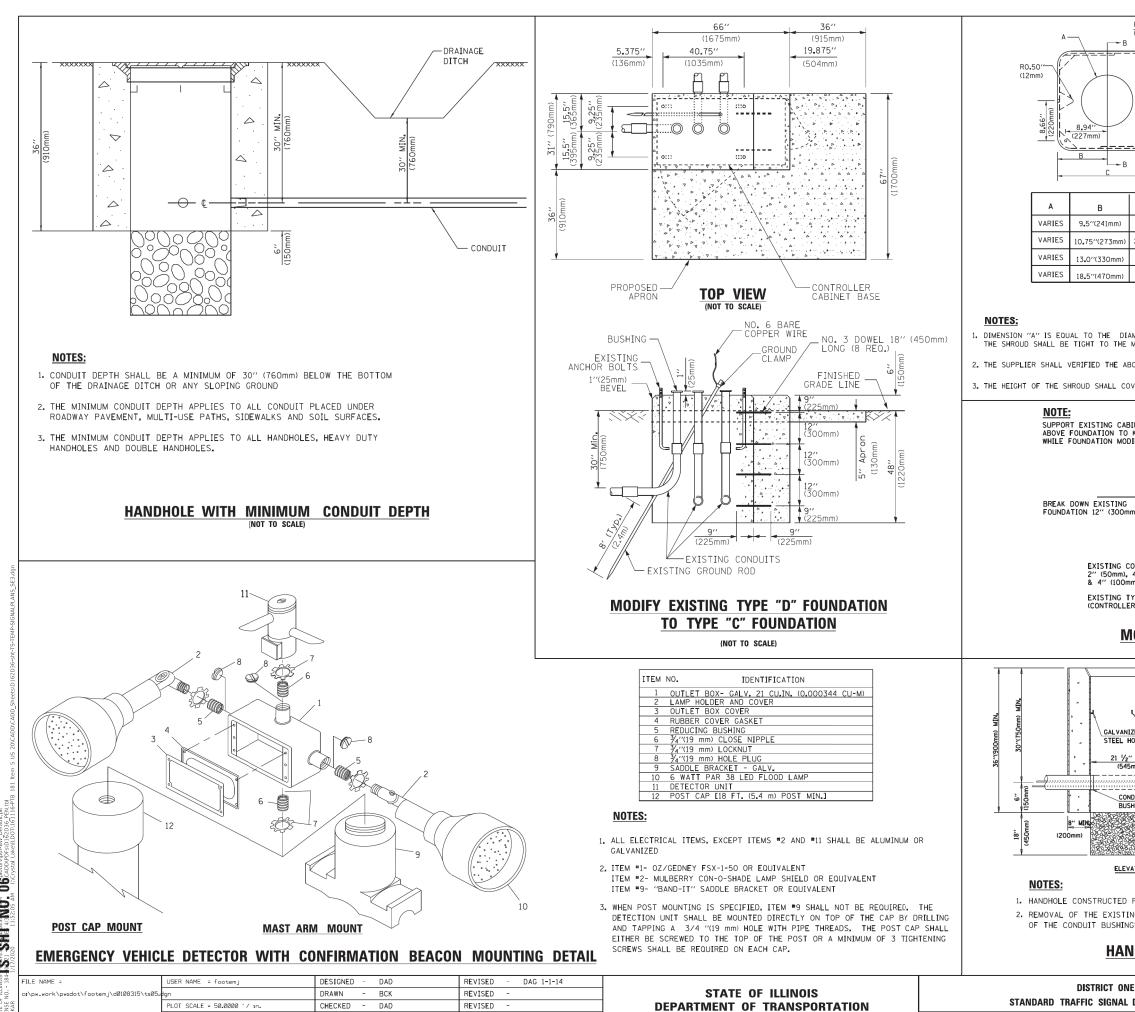
DATE

10-28-09

REVISED

.ength	① Foundation Depth	Foundation Diameter	Spiral Diameter	Quantity of Rebars	Size of Rebars
′ (9 . 1 m)	10'-0'' (3.0 m)	30'' (750mm)	24'' (600mm)	8	6(19)
r equal to	13'-6'' (4 . 1 m)	30" (750mm)	24'' (600mm)	8	6(19)
less than m)	11'-0'' (3.4 m)	36'' (900mm)	30'' (750mm)	12	7(22)
r equal to less than m)	13'-0'' (4.0 m)	36'' (900mm)	30'' (750mm)	12	7(22)
r equal to nd up to m)	15'-0'' (4 . 6 m)	36'' (900mm)	30'' (750mm)	12	7(22)
r equal to less than m)	21'-0'' (6.4 m)	42'' (1060mm)	36'' (900mm)	16	8(25)
r equal to nd up t o m)	25'-0" (7.6 m)	42'' (1060mm)	36'' (900mm)	16	8(25)

01	ONE IAL DESIGN DETAILS			SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
				2016-092 B&R	MCHENRY	329	202
NA				TS-05 CONTRACT NO. 62D3			2D36
S	STA.	TO STA.	FED. R	DAD DIST. NO. 1 ILLINOIS FED. A	D PROJECT GMN	N(759)	



PLOT DATE = 1/13/2014

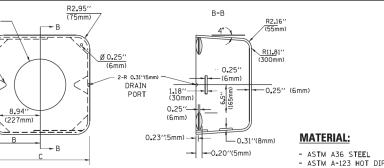
DATE

10-28-09

REVISED

SCALE: NONE

STANDARD TRAFFIC SIGNA SHEET NO. 6 OF 7 SHEETS



- ASTM A-123 HOT DIPPED GALVANIZED

	С	HEIGHT	WEIGHT
ו)	19''(483mm)	7" (178mm) - 12" (300mm)	53 lbs (24kg)
ım)	21.5''(546mm)	7" (178mm) - 12" (300mm)	68 lbs (31 kg)
m)	26''(660mm)	7" (178mm) - 12" (300mm)	81 lbs (37 kg)
m)	37''(940mm)	7" (178mm) - 12" (300mm)	126 lbs (57 kg)

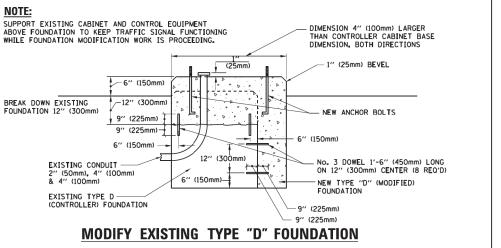
SHROUD

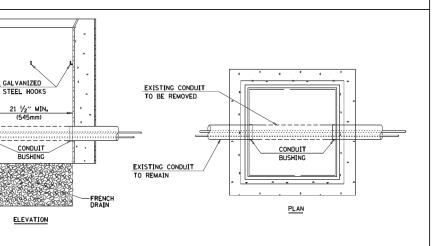
в

1. DIMENSION "A" IS EQUAL TO THE DIAMETER OF THE MAST ARM POLE AT THE TOP OF THE SHROUD. THE SHROUD SHALL BE TIGHT TO THE MAST ARM POLE.

2. THE SUPPLIER SHALL VERIFIED THE ABOVE DIMENSIONS BASED ON MAST ARM REQUIREMENTS.

3. THE HEIGHT OF THE SHROUD SHALL COVER THE ANCHOR BOLTS, NUTS AND MAST ARM POLE BASE.

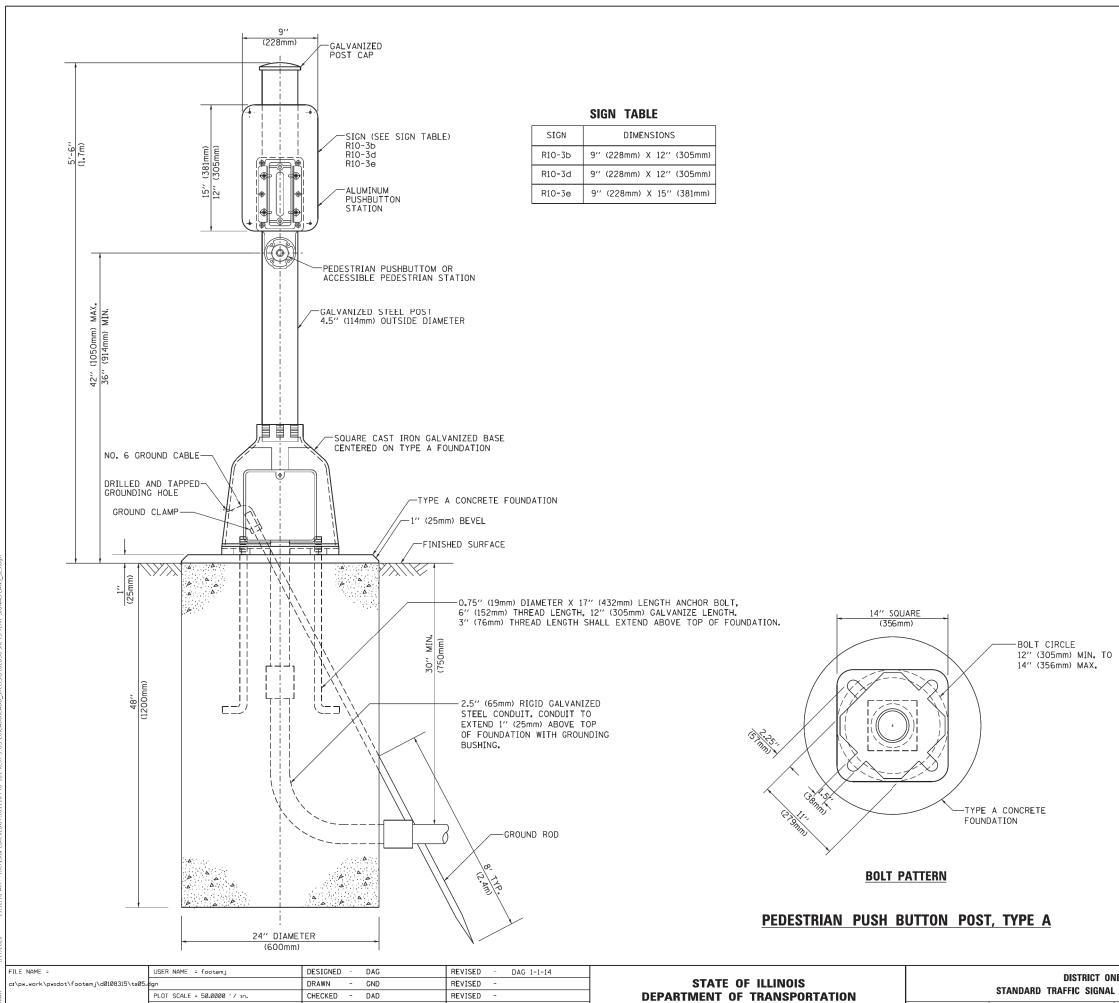




1. HANDHOLE CONSTRUCTED PER STATE STANDARD 814001. 2. REMOVAL OF THE EXISTING CONDUIT FROM THE HANDHOLE AND THE INSTALLATION OF THE CONDUIT BUSHINGS SHALL BE INCLUDED WITH THE COST OF THE HANDHOLE.

HANDHOLE TO INTERCEPT EXISTING CONDUIT

10	DNE AL DESIGN DETAILS			SECTION	COUNTY	TOTAL SHEETS	SHEET NO.	
				525 2016-092 B&R MCHENRY		329	203	
HI.				TS-05 CONTRACT NO. 62D36				
5	STA.	TO STA.	FED. R	FED. ROAD DIST. NO. 1 ILLINOIS FED. AID PROJECT GMW(759)				



• 2017, BY BAXTER & WOODMAN, INC LINOIST SCHERE SHORE AT AND ON OT 11772021 SCHERE 413 NO. OT

DATE

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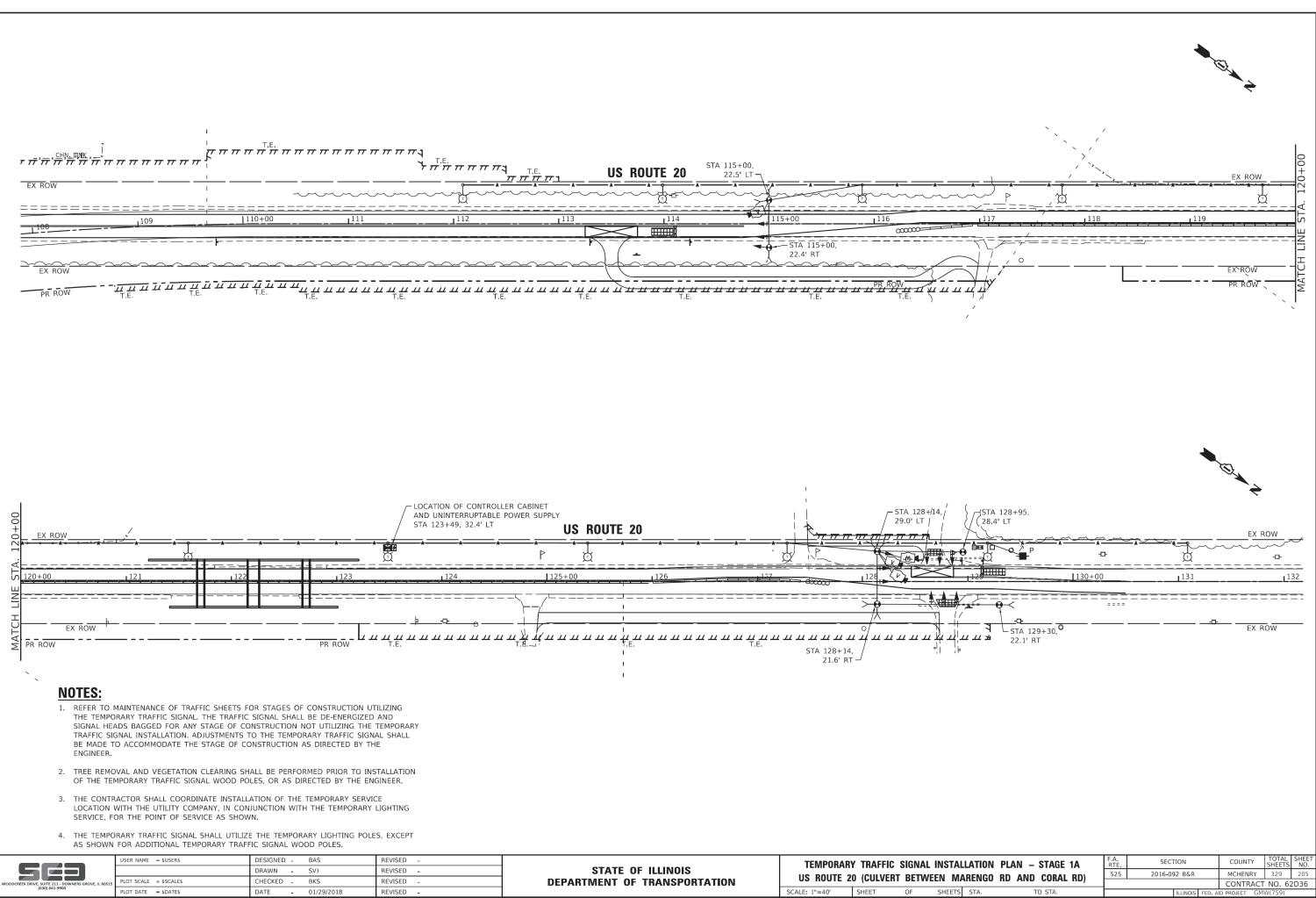
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PLOT DATE = 1/13/2014

SCALE: NONE

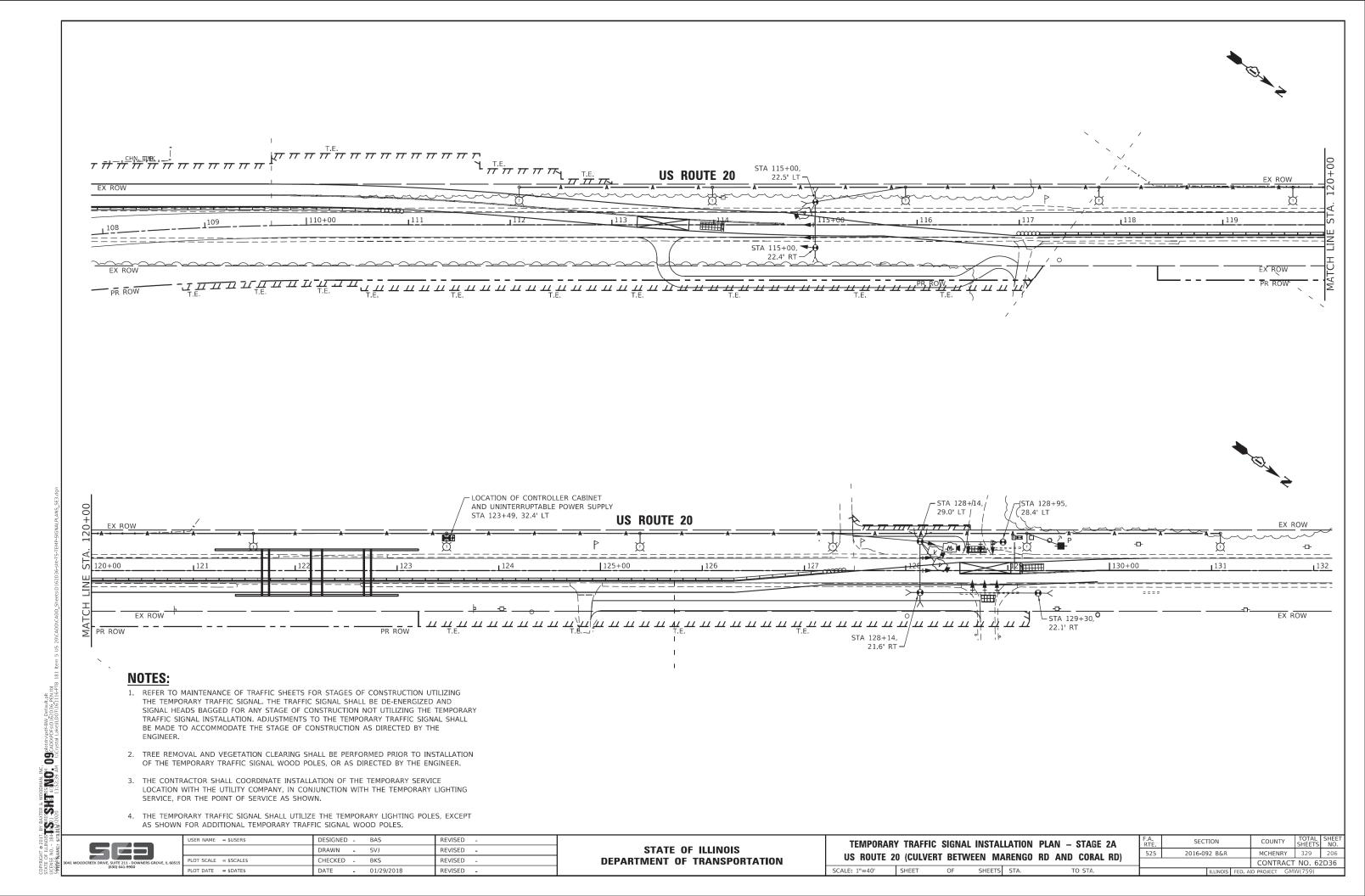
SHEET NO. 7 OF 7 SHEETS

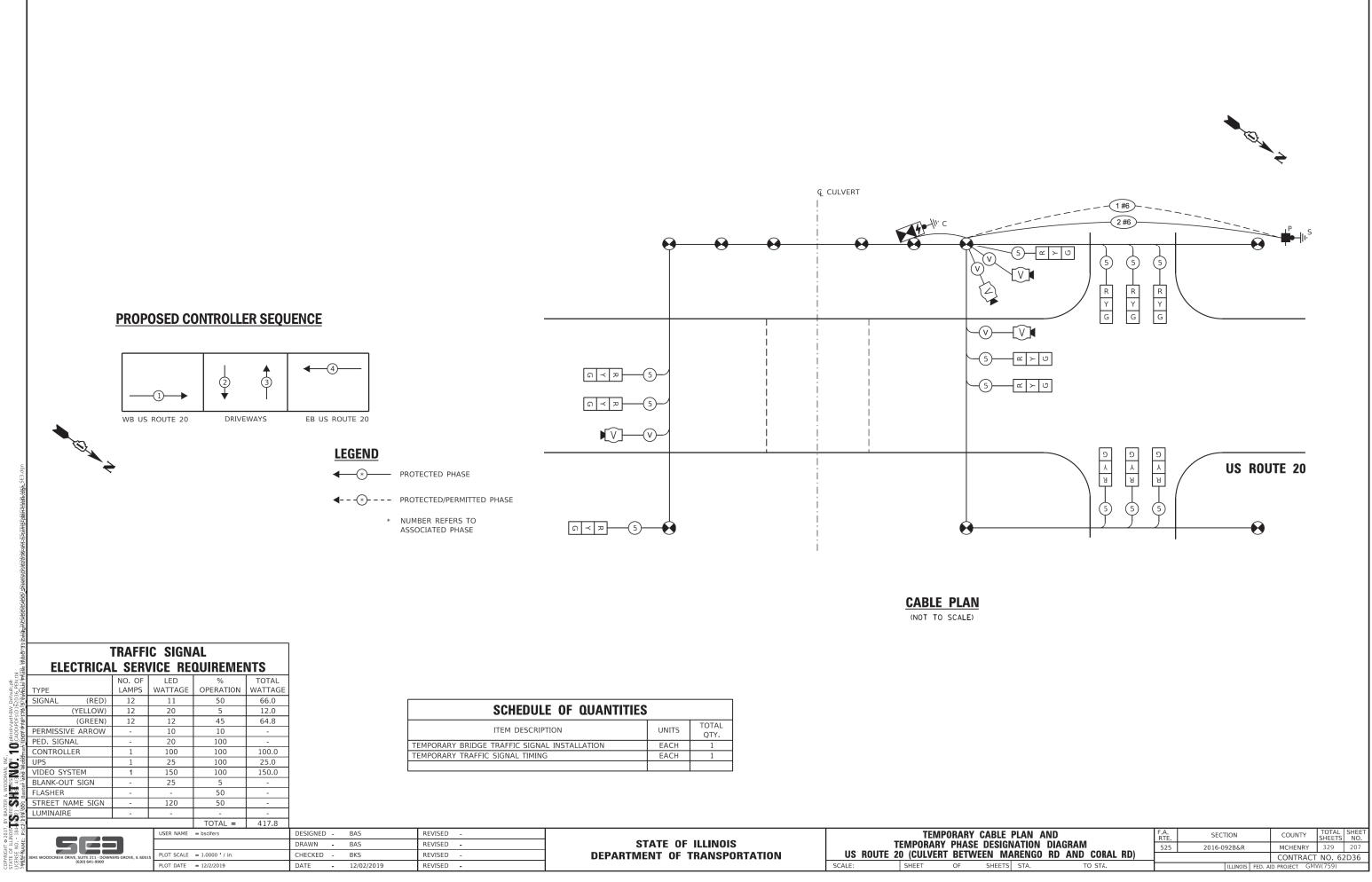
01	DNE			SECTION		COUNTY	TOTAL SHEETS	SHEET NO.
AL DESIGN DETAILS			525	2016-092 B&R		MCHENRY	329	204
	AL DESIGN DETAILS			TS-05 CONTRACT NO. 62D36				
5	STA.	TO STA.	FED. F	OAD DIST. NO. 1	ILLINOIS FED. AI	D PROJECT GM	N(759)	



017, BY BAXTER & WOODMAN, INC. 015 STEESS HT ESIMON 080

ME: \$FII	668	USER NAME = \$USER\$	DESIGNED - BAS DRAWN - SVJ	REVISED - REVISED -	STATE OF ILLINOIS				NSTALL
3041 WOODCREEK DRIVE, SUITE 211 - DOWNERS GRO	3041 WOODCREEK DRIVE, SUITE 211 - DOWNERS GROVE, IL 60515	PLOT SCALE = \$SCALE\$	CHECKED - BKS	REVISED -	DEPARTMENT OF TRANSPORTATION	US ROUTE 2	0 (CULVER1	BETWEEN	N MAR
560	(630) 641-9900	PLOT DATE = \$DATE\$	DATE - 01/29/2018	REVISED -		SCALE: 1"=40'	SHEET	OF S	SHEETS S

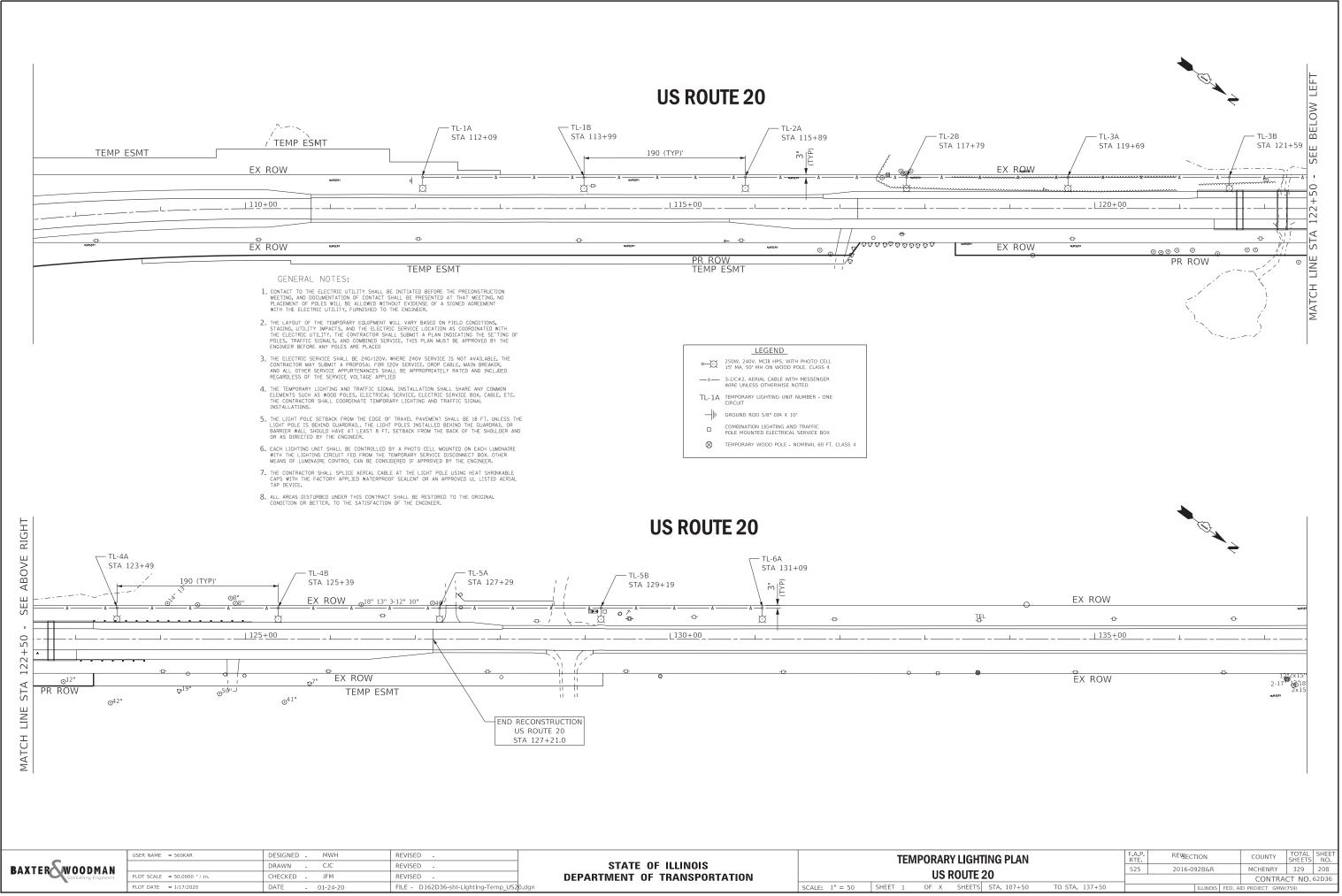




INAFFIC JUNAL									
ELECTRICA	L SER\	ICE RE	QUIREMEI	NTS					
	NO. OF	LED	%	TOTAL					
TYPE	LAMPS	WATTAGE	OPERATION	WATTAGE					
SIGNAL (RED)	12	11	50	66.0					
(YELLOW)	12	20	5	12.0					
(GREEN)	12	12	45	64.8					
PERMISSIVE ARROW	-	10	10	-					
PED. SIGNAL	-	20	100	-					
CONTROLLER	1	100	100	100.0					
UPS	1	25	100	25.0					
VIDEO SYSTEM	1	150	100	150.0					
BLANK-OUT SIGN	-	25	5	-					
FLASHER	-	-	50	-					
STREET NAME SIGN	-	120	50	-					
LUMINAIRE	-	-	-	-					
			TOTAL =	417.8					

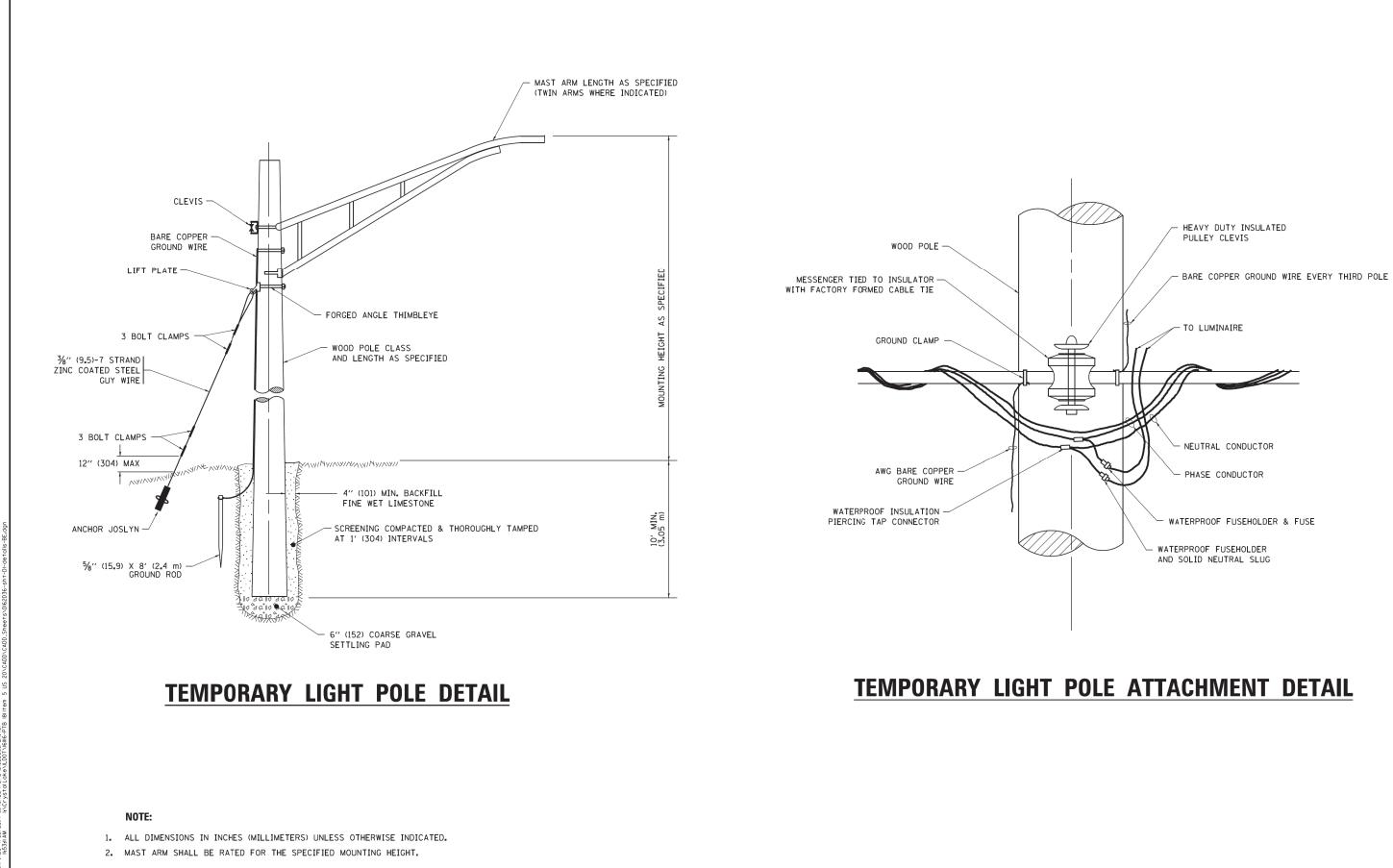
SCHEDULE OF QUANTITIES						
ITEM DESCRIPTION	UNITS	TOTAL QTY.				
TEMPORARY BRIDGE TRAFFIC SIGNAL INSTALLATION	EACH	1				
TEMPORARY TRAFFIC SIGNAL TIMING	EACH	1				

	TOTAL - 417.0							
	USER NAME = bscifers	DESIGNED - BAS	REVISED -		1	TEMPO	RARY	CABLE
		DRAWN - BAS	REVISED -	STATE OF ILLINOIS	(т	EMPORARY	PHASE	DESIG
3041 WOODCREEK DRIVE, SUITE 211 - DOWNERS GROVE, IL 60515	PLOT SCALE = 1.0000 ' / in.	CHECKED - BKS	REVISED -	DEPARTMENT OF TRANSPORTATION	US ROUTE 2	0 (CULVERT	BETW	EEN N
(630) 641-9900	PLOT DATE = 12/2/2019	DATE - 12/02/2019	REVISED -		SCALE:	SHEET	OF	SHEET



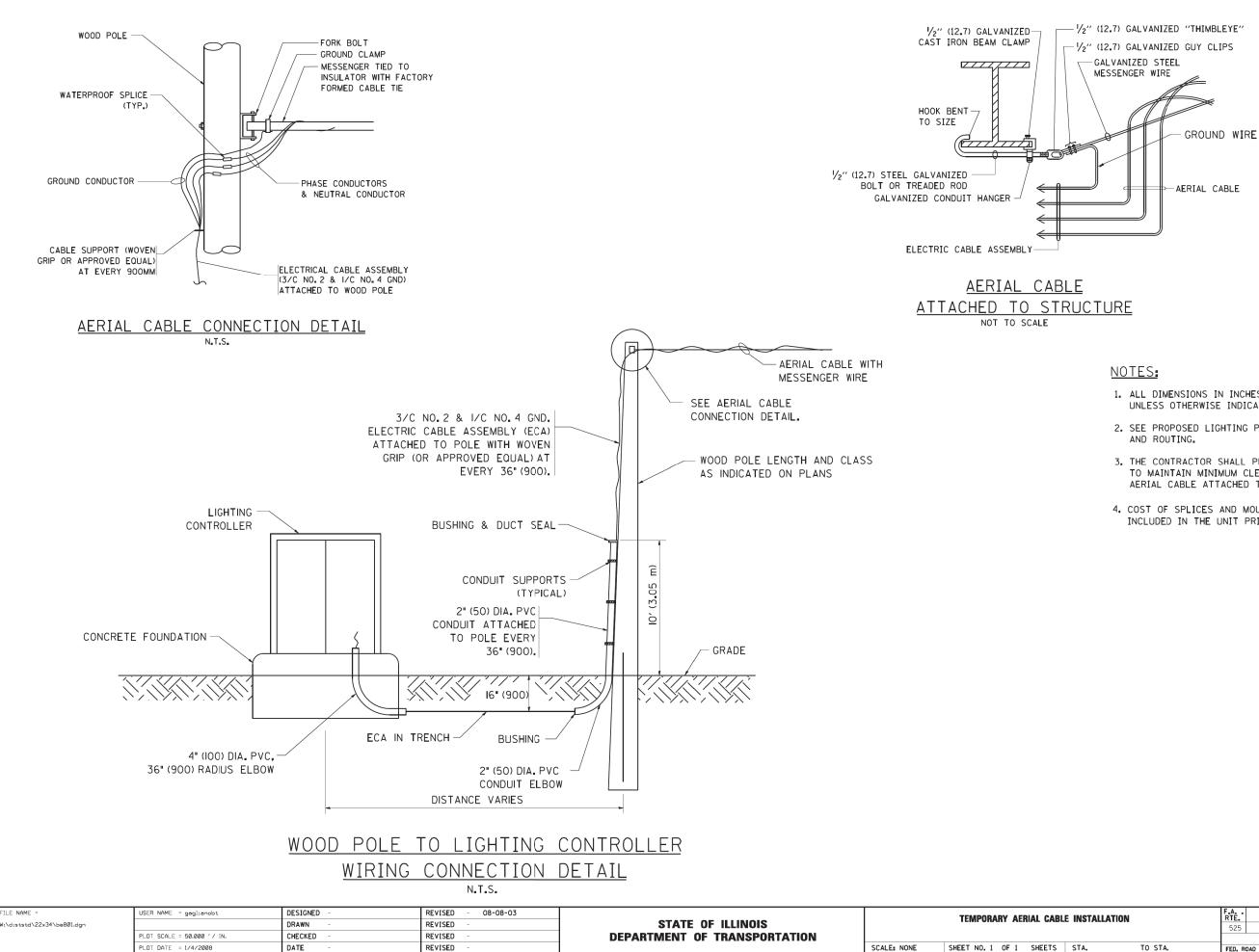
sJUML PISIGN HM ...()polarivpar-BW_Delaurcat - EXPRES 439/2020CADD/PISIO162D36_FBN.tbl - 0. 11:53:06 AM [K/Crystal Lake(ILDD/T)61116-FPT 181 ftem 5 US 201CADD/CADD Sheets(D162 - 0. 11:53:06 AM [K/Crystal Lake(ILDD/T)61116-FPT 181 ftem 5 US 201CADD/CADD Sheets(D162 - 0. 11:53:06 AM [K/Crystal Lake(ILDD/T)61116-FPT 181 ftem 5 US 201CADD/CADD Sheets(D162 - 0. 11:53:06 AM [K/Crystal Lake(ILDD/T)61116-FPT 181 ftem 5 US 201CADD/CADD Sheets(D162 - 0. 11:53:06 AM [K/Crystal Lake(ILDD/T)61116-FPT 181 ftem 5 US 201CADD/CADD Sheets(D162 - 0. 11:53:07 (K/Crystal Lake(ILDD/T)61116-FPT 181 ftem 5 US 201CADD/CADD Sheets(D162 - 0. 11:53:07 (K/Crystal Lake(ILDD/T)61116-FPT 181 ftem 5 US 201CADD/CADD Sheets(D162 - 0. 11:53:07 (K/Crystal Lake(ILDD/T)61116-FPT 181 ftem 5 US 201CADD/CADD Sheets(D162 - 0. 11:53:07 (K/Crystal Lake(ILDD/T)61116-FPT 181 ftem 5 US 201CADD/CADD Sheets(D162 - 0. 11:53:07 (K/Crystal Lake(ILDD/T)61116-FPT 181 ftem 5 US 201CADD Sheets(D162 - 0. 11:53:07 (K/Crystal Lake(ILDD/T)61116-FPT 181 ftem 5 US 201CADD Sheets(D162 - 0. 11:53:07 (K/Crystal Lake(ILDD/T)61116-FPT 181 ftem 5 US 201CADD Sheets(D162 - 0. 11:53:07 (K/Crystal Lake(ILDD/T)61116-FPT 181 ftem 5 US 201CADD Sheets(D162 - 0. 11:53:07 (K/Crystal Lake(ILDD/T)61116-FPT 181 ftem 5 US 201CADD Sheets(D162 - 0. 11:53:07 (K/Crystal Lake(ILDD/T)61116-FPT 181 ftem 5 US 201CADD Sheets(D162 - 0. 11:53:07 (K/Crystal Lake(ILDD/T)61116-FPT 181 ftem 5 US 201CADD Sheets(D162 - 0. 11:53:07 (K/Crystal Lake(ILDD/T)61116-FPT 181 ftem 5 US 201CADD Sheets(D162 - 0. 11:53:07 (K/Crystal Lake(ILDD/T)61116-FPT 181 ftem 5 US 201CADD Sheets(D162 - 0. 11:53:07 (K/Crystal Lake(ILDD/T)61116-FPT 181 ftem 5 US 201CADD Sheets(D162 - 0. 11:53:07 (K/Crystal Lake(ILDD/T)61116-FPT 181 ftem 5 US 201CADD Sheets(D162 - 0. 11:53:07 (K/Crystal Lake(ILDD/T)61116-FPT 181 ftem 5 US 201CADD Sheets(D162 - 0. 11:53:07 (K/Crystal Lake(ILDD/T)61116-FPT 181 ftem 5 US 201CADD Sheets(D162 - 0. 11:53:07 (K/Crystal Lake(ILDD/T)61116-FPT 181 ftem 5 US 201CADD Sheets(D162 - 0.

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P	POLE DETAILS			F.A. SECTION		TOTAL SHEETS	SHEET NO.
		525	2016-092B&R	MCHENRY	329	209	
BE				BE800	CONTRACT	NO. 62	D36
TS	STA.	TO STA.		ILLINOIS FED. A	ID PROJECT GN	1W(759)	

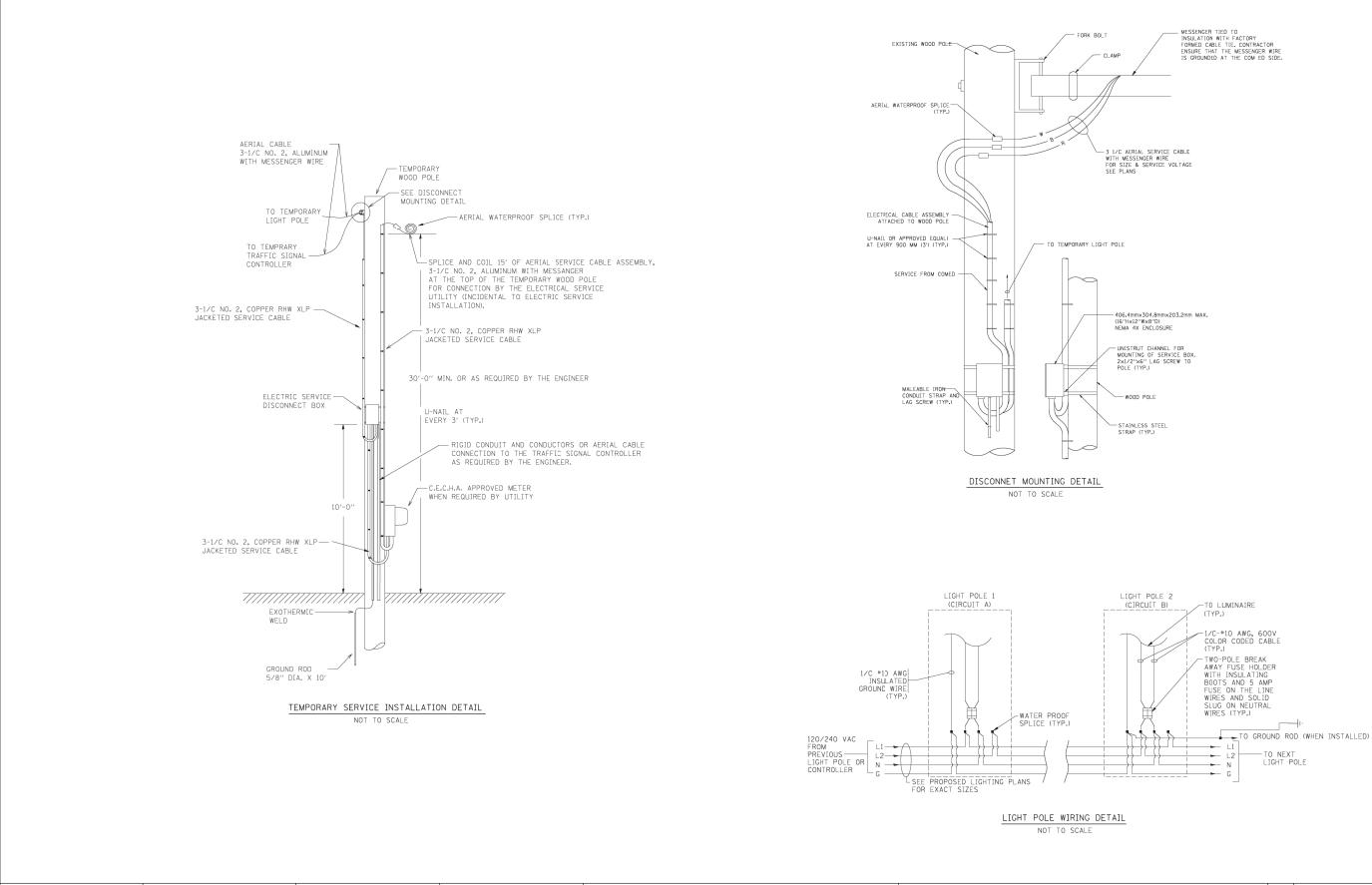


BAXTER & WOODMAN, INC PROFESSIONAL DESIGN F 121 - EXPIRES 4/30/2019 2017. INOIS 184-6 COPYRIGHT © STATE OF ILL LICENSE NO. -

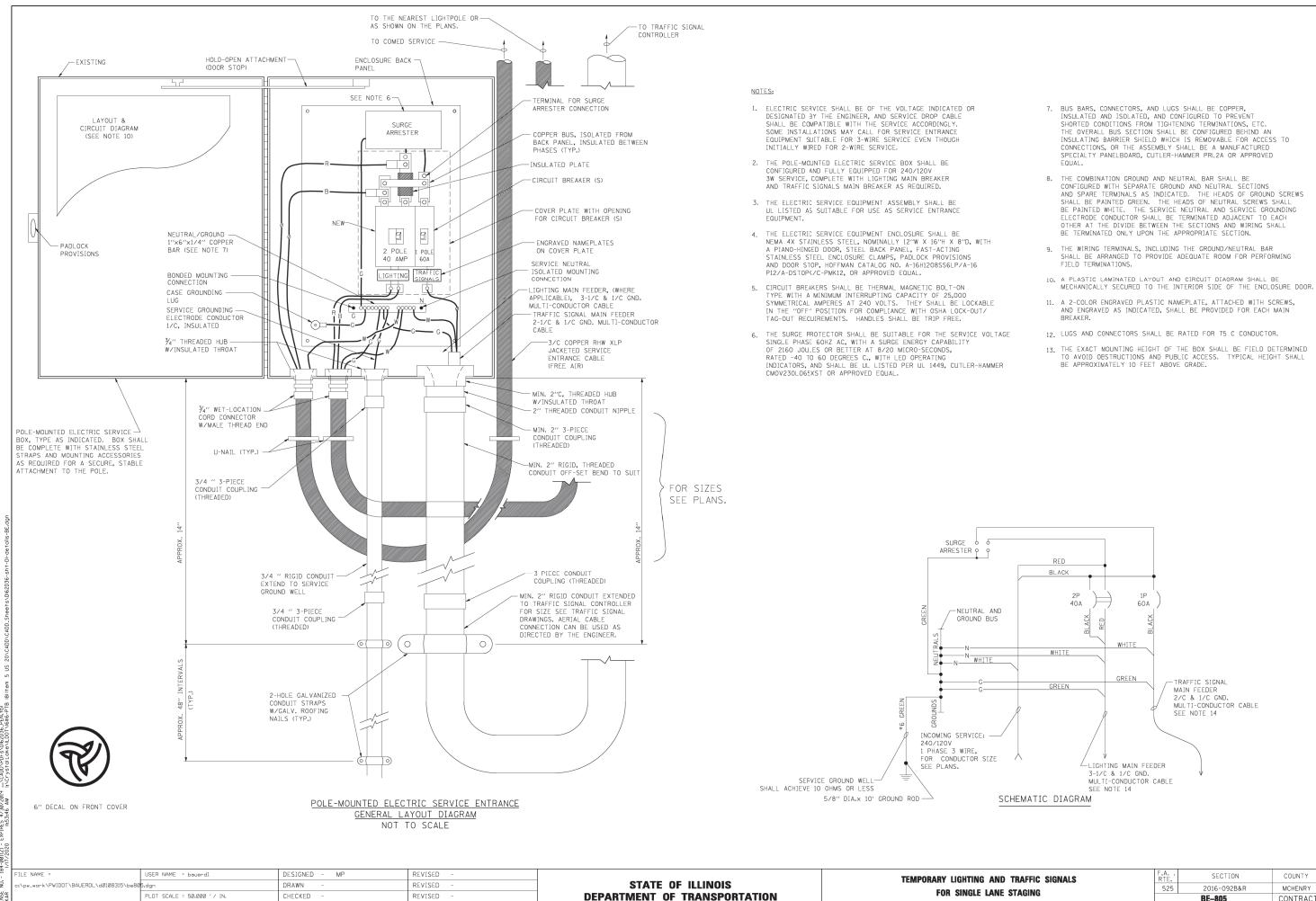
SHEET NO. 1 OF 1 SHEETS

- 1. ALL DIMENSIONS IN INCHES (MILLIMETERS) UNLESS OTHERWISE INDICATED.
- 2. SEE PROPOSED LIGHTING PLAN FOR CONDUIT, CABLE
- 3. THE CONTRACTOR SHALL PROVIDE INTERMEDIATE SUPPORTS TO MAINTAIN MINIMUM CLEARANCES. REFER TO AERIAL AERIAL CABLE ATTACHED TO STRUCTURE DETAIL.
- 4. COST OF SPLICES AND MOUNTING HARDWARE SHALL BE INCLUDED IN THE UNIT PRICE FOR AERIAL CABLE.

BLI	BLE INSTALLATION			SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
		525 2016-092B&R		MCHENRY	329	210	
				BE801	CONTRACT	NO. 62	D36
	STA.	TO STA.	FED. RO	DAD DIST. NO. 1 ILLINOIS FED. A	ID PROJECT GA	AW(759)	



7,BY BAXTER & WODDMAN, INC. 15 - PADFESSIONAL DESION FRANCHOOFdrvyddf-BW.Defauf 14 - PADIZ - EXPIRES 4748/0919		-	NOT TO SCALE		120/240 VAC FROM PREVIOUS LIGHT POLE OR CONTROLLER G		ICHI ND ROD (WHEN INSTALLED) NEXT GHT POLE
- 18	FILE NAME =	USER NAME = bauerdl	DESIGNED - MP	REVISED -		TEMPORARY LIGHTING AND TRAFFIC SIGNALS	T.A. SECTION COUNTY TOTAL SHEET RTE. SECTION COUNTY SHEETS NO.
PH IC	c:\pw_work\PWIDOT\BAUERDL\d0108315\be80	5.dgn	DRAWN -	REVISED -	STATE OF ILLINOIS		525 2016-092B&R MCHENRY 329 211
OPYRIGHT TATE OF ICENSE NO		PLOT SCALE = 50.000 ' / IN.	CHECKED -	REVISED -	DEPARTMENT OF TRANSPORTATION	FOR SINGLE LANE STAGING	BE-805 CONTRACT NO. 62D36
COP STA 560		PLOT DATE = 1/14/2010	DATE - 01/14/10	REVISED -		SCALE: NONE SHEET NO. 2 OF 3 SHEETS STA. TO STA.	FED. ROAD DIST. NO. 1 ILLINOIS FED. AID PROJECT GMW(759)



PLOT DATE = 1/14/2010

DATE

01/14/10

REVISED

SCALE: NONE SHEET NO. 3 OF 3 SHEETS

- THE OVERALL BUS SECTION SHALL BE CONFIGURED BEHIND AN INSULATING BARRIER SHIELD WHICH IS REMOVABLE FOR ACCESS TO CONNECTIONS, OR THE ASSEMBLY SHALL BE A MANUFACTURED SPECIALTY PANELBOARD, CUTLER-HAMMER PRL2A OR APPROVED
- 8. THE COMBINATION GROUND AND NEUTRAL BAR SHALL BE CONFIGURED WITH SEPARATE GROUND AND NEUTRAL SECTIONS AND SPARE TERMINALS AS INDICATED. THE HEADS OF GROUND SCREWS SHALL BE PAINTED GREEN. THE HEADS OF NEUTRAL SCREWS SHALL BE PAINTED WHITE. THE SERVICE NEUTRAL AND SERVICE GROUNDING ELECTRODE CONDUCTOR SHALL BE TERMINATED ADJACENT TO EACH OTHER AT THE DIVIDE BETWEEN THE SECTIONS AND WIRING SHALL BE TERMINATED ONLY MEDANTING ADDALLS AND MIRING SHALL

- 11. A 2-COLOR ENGRAVED PLASTIC NAMEPLATE, ATTACHED WITH SCREWS, AND ENGRAVED AS INDICATED, SHALL BE PROVIDED FOR EACH MAIN
- 13. THE EXACT NOUNTING HEIGHT OF THE BOX SHALL BE FIELD DETERMINED TO AVOID OESTRUCTIONS AND PUBLIC ACCESS. TYPICAL HEIGHT SHALL BE APPROXIMATELY 10 FEET ABOVE GRADE.

D TRAFFIC SIGNALS E staging		F.A RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO,
		525	2016-092B&R	MCHENRY	329	212
STAdina			BE-805	CONTRACT	NO. 62	036
5	STA. TO STA.	FED. R	OAD DIST. NO. 1 ILLINOIS FED. AID	PROJECT GM	W(759)	

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- ÷ THIS PROJECT INCLUDES THE INSTALLATION OF A NEW LIGHTING SYSTEM AT THE ROUNDABOUT INTERSECTION OF US ROUTE 20 AND MARENGO ROAD. THE PROPOSED LIGHTING SHALL BE OWNED AND MAINTAINED BY IDOT, STATE OF ILLINOIS
- \sim THE CONTRACTOR SHALL CONTACT THE ELECTRIC UTILITY COMPANY TO COORDINATE THE ELECTRIC SERVICE WORK. THE FIELD CONTACT PERSON IS PAMELA HUGHES OF COMEd AT (815) 490-2867.
- ω THE OUANTITIES OF RACEWAY WHEREVER INDICATED ON THESE PLANS ARE APPROXIMATIONS ONLY. THE CONTRACTOR SHALL FIELD VERIFY ALL LENGTHS AND SHALL INSTALL RACEWAYS IN COMPLETE COMPLIANCE WITH THE SPECIFIED REOUIREMENTS.
- 4 THE CONTRACTOR SHALL NOTIFY J.U.L.I.E. TO LOCATE AND MARK/STAKE ALL UNDERGROUND UTILITIES.
- σ THE CONTRACTOR SHALL VERIFY LOCATIONS OF UNDERGROUND/OVERHEAD UTILITIES PRIOR TO INSTALLATION OF LIGHT POLES AND CONDUITS. IF THERE IS A CONFLICT WITH THE LIGHT POLES/CONDUITS AS SHOWN ON PLANS. THE CONTRACTOR SHALL SUGGEST ALTERNATIVE LOCATIONS AND COORDINATE WITH THE ENGINEER PRIOR TO PERFORMING DIGGING WORK. IT SHALL ALSO BE THE CONTRACTOR'S RESPONSIBILITY TO VERIFY ALL DIMENSIONS AND CONDITIONS EXISTING IN THE FIELD PRIOR TO ORDERING MATERIALS AND BEGINNING CONSTRUCTION ACTIVITIES.
- 6 THE CONTRACTOR SHALL TAKE CARE WHEN INSTALLING UNIT DUCT TO AVOID CONFLICTS WITH EXISTING UNDERGROUND UTILITIES AND TREES. THE CONTRACTOR SHALL BE RESPONSIBLE FOR ANY DAMAGE AS DETERMINED BY THE ENGINEER.
- 7. TRENCHES FOR LIGHTING RACEWAYS SHALL HAVE A MINIMUM DEPTH OF 30".
- 8 LIGHTING SYSTEM INSTALLATION SHALL CONFORM STANDARDS, NEC AND LOCAL CODES. TO THE LATEST IDOT
- ٩ ALL ELECTRICAL EQUIPMENT AND PRODUCTS SHALL BE U/L LISTED AND LABELED.

BILL OF MA

DESCRIPTION	UNIT	UNIT QUANTITY
ELECTRIC SERVICE INSTALLATION	EACH	
ELECTRIC UTILITY SERVICE CONNECTION	L SUM	1
UNDERGROUND CONDUIT, GALVANIZED STEEL, 4" DIA.	FOOT	533
UNIT DUCT, 600V, 3-1C NO. 4, 1/C NO.6 GROUND, (XLP-TYPE USE), 1 1/4" DIA. POLYETHYLENE	FOOT	3188
ELECTRIC CABLE IN CONDUIT, 600V (XLP-TYPE USE) 1/C NO. 1/0	FOOT	258
LUMINAIRE, LED, ROADWAY, OUTPUT DESIGNATION H	EACH	23
LIGHTING CONTROLLER, BASE MOUNTED, 480VOLT, 100AMP	EACH	1
LIGHT POLE, ALUMINUM, 40 FT. M.H., 6 FT. DAVIT ARM	EACH	23
LIGHT POLE FOUNDATION, 24" DIAMETER	FOOT	230
BREAKAWAY DEVICE, TRANSFORMER BASE, 15 INCH BOLT CIRCLE	EACH	23

AMES Engineering, Inc. consulting Engineers 6330 Belmont Road, Unit 4B Downers Grove, IL 60516

PLOT PLOT

DATE =

: \$SCALE\$: \$DATE\$

DESIGNED DRAWN CHECKED DATE

MB SR BL 05-22-19

REVISED REVISED REVISED REVISED

STATE OF ILLINOIS DEPARTMENT OF TRANSPORTATION

SCALE:

N.T.S.

USER NAME

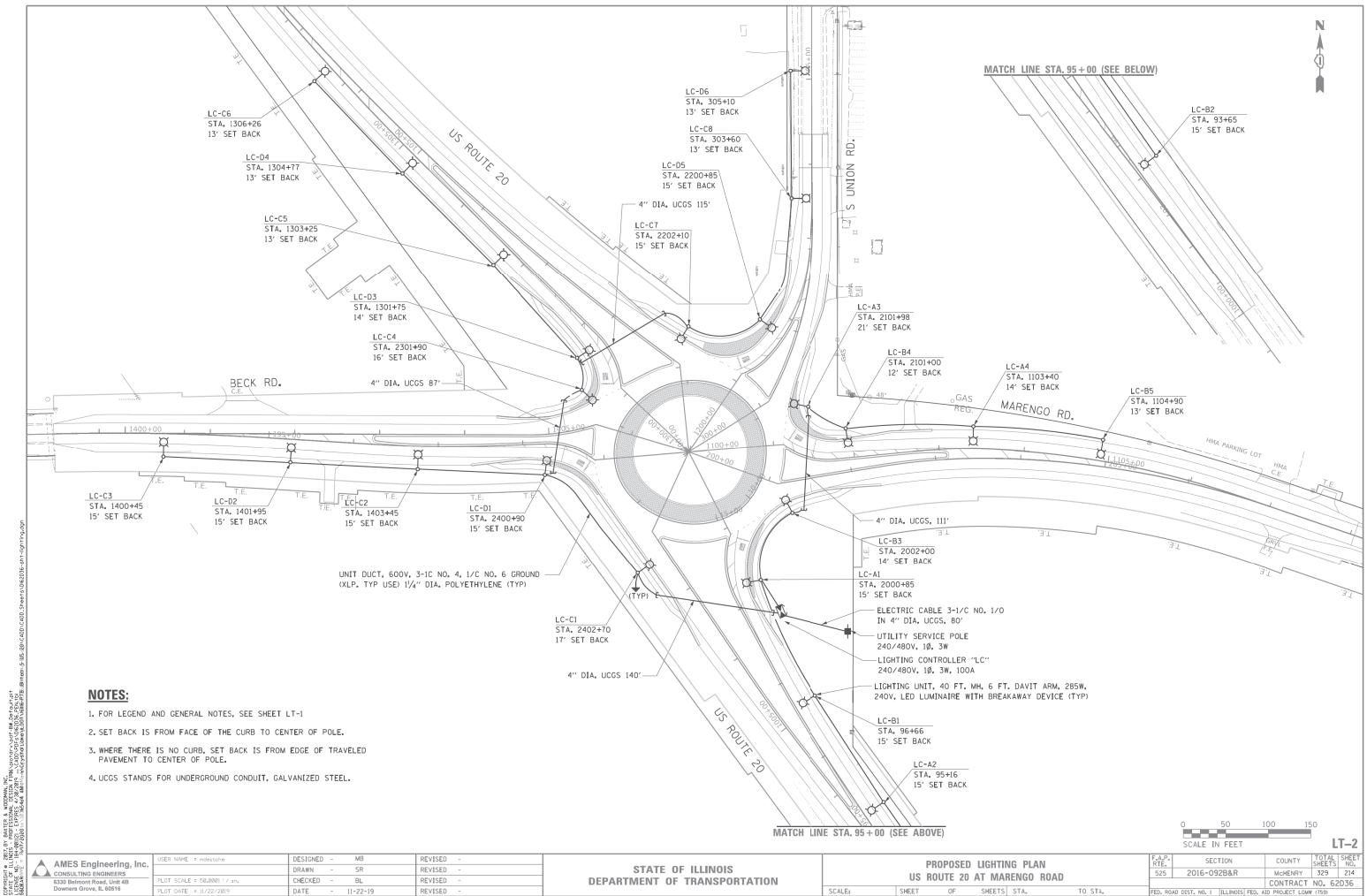
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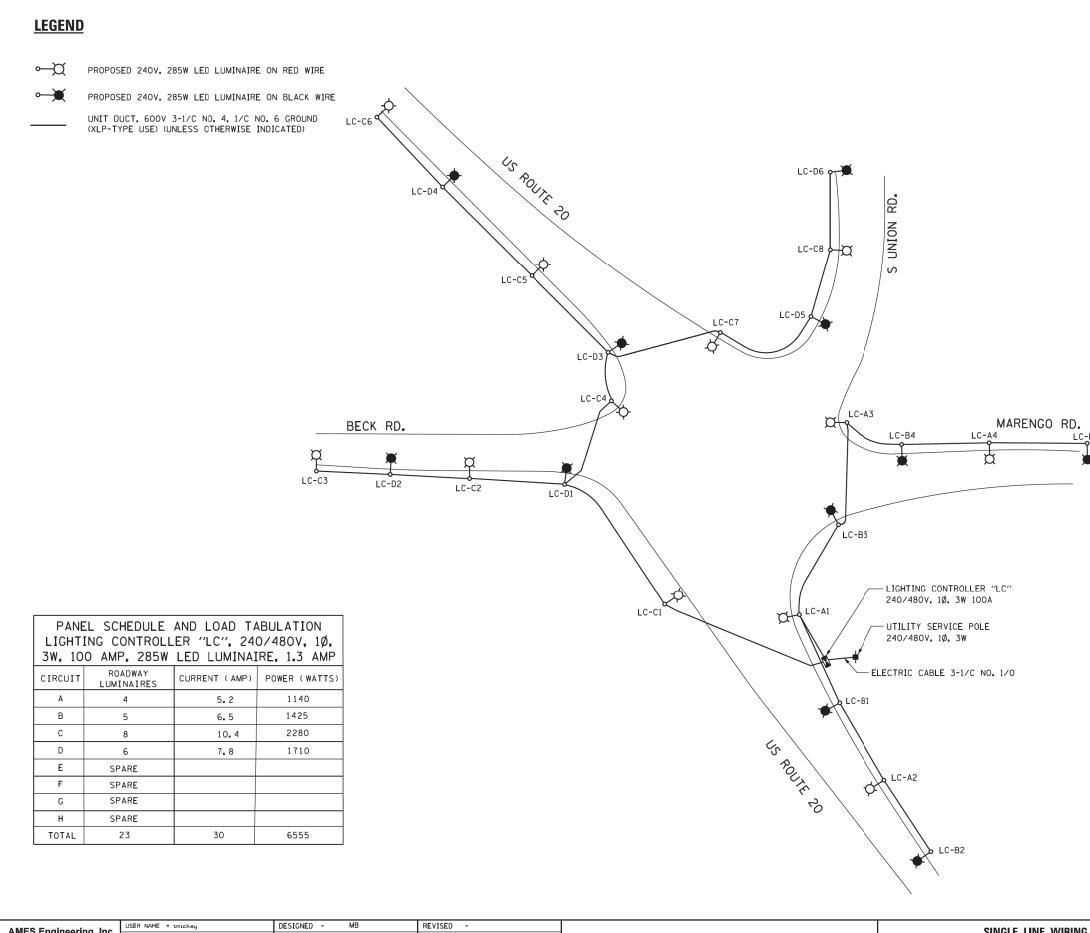
LEGEND ⊢│] ҈ ▲ 🛉 Å PROPOSED LIGHTING UNIT, 40 FT. MH, 6 FT. DAVIT ARM, (240V-LINE TO NEUTRAL), LED LUMINAIRE WITH BREAKAWAY DEVICE GROUND ROD 5%" DIA. X 10 FT. ELECTRIC CABLE IN CONDUIT 4" DIA., 3-1/C NO. 1/0 RIGID GALVANIZED STEEL CONDUIT, UNDERGROUND, WITH UNIT DUCT PROPOSED LIGHTING CONTROLLER "LC" 240/480V. 3 WIRE. 100 AMP. BASE MOUNTED UNIT DUCT, 600V, 3-1C NO. 4, 1/C NO. 6 GROUND (XLP-TYPE USE) 1/4" DIA. POLYETHYLENE ComEd ELECTRIC SERVICE POLE 240/480V, 1 PHASE 3 WIRE

T.S. SHEET 1 OF 1 SHEETS STA. N/A TO STA. N/A		IIS ROUTE 20 AT MARENGO ROAD	GENERAL NOTES, BILL OF MATERIALS AND LEGEND
FED. ROA		525	F.A.P. RTE
FED. ROAD DIST. NO. 1 ILLINDIS FED. AID PROJECT LGMW (759)		2016-092B&R	SECTION
AID PROJECT LGMW	CONTRACT NO. 62D36	MCHENRY	COUNTY
V (759)	NO. 62		TOTAL SHEET SHEETS NO.
	D36		SHEET

E



AMES Engineering, Inc.	USER NAME = mdeitche	DESIGNED - DRAWN -	SR	REVISED -	STATE OF ILLINOIS			OPOSED		
6330 Belmont Road, Unit 4B	PLOT SCALE = 50.0001 / / in.	CHECKED -	BL	REVISED -	DEPARTMENT OF TRANSPORTATION	L	AT MAR	.EI		
Downers Grove, IL 60516	PLOT DATE = 11/22/2019	DATE -	11-22-19	REVISED -		SCALE:	SHEET	OF	SHEETS	S



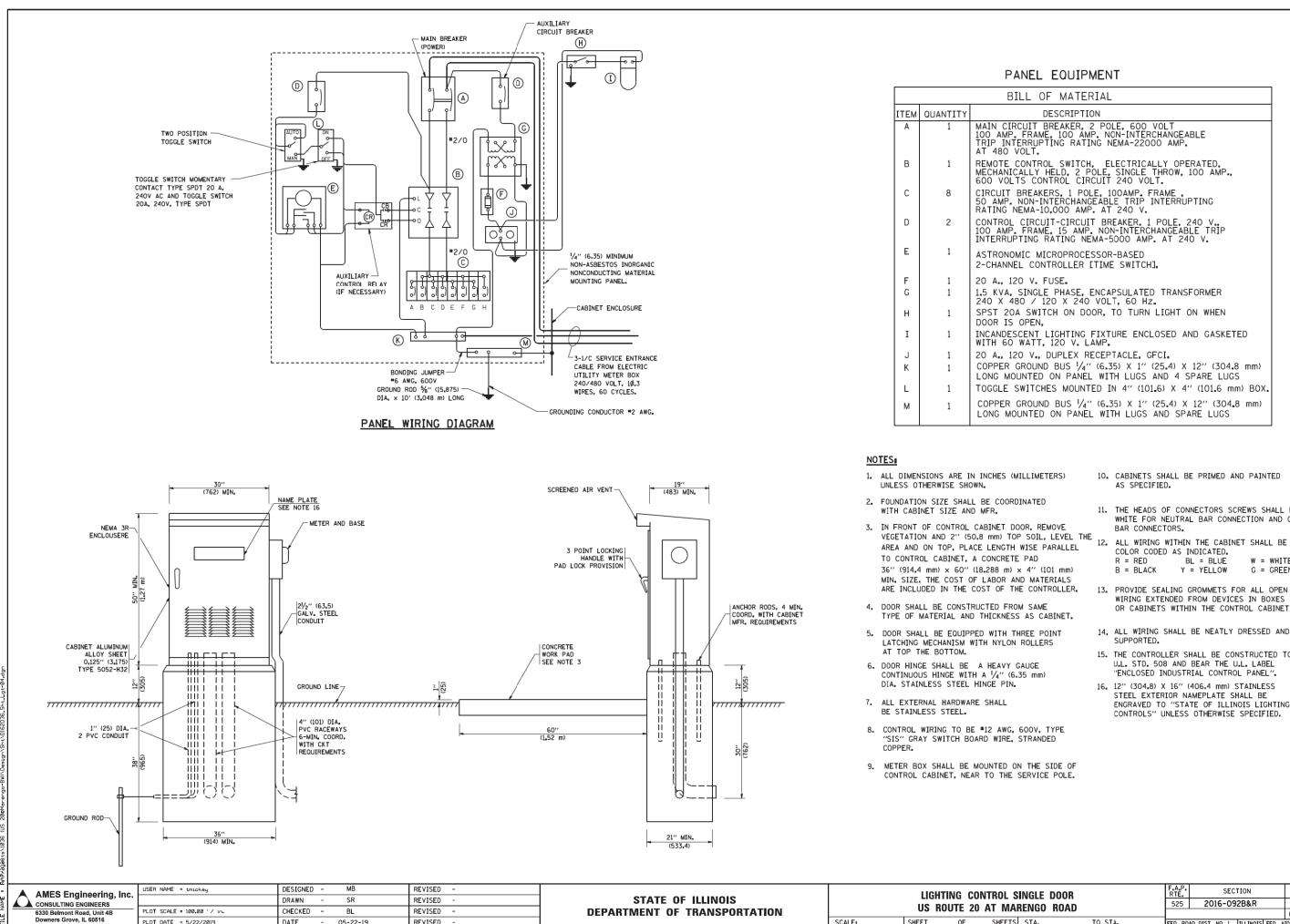
COPYRICHT © 2017, BY BAXTER & WODDMAN, INC. 15ATE OF 11L/INDS - PROFESSIONAL DESION LANO447-V>D44-BW.De fout+oft LICENSE No. 138-40012- EXPIRES 43/22819 - ...CADON>DF05-D05056, PEN-tb1 BRDEANAME = RW7-X3084-4V3 208M%-miskings-d54M1DAkagu505A1V301627035, LIAMabu-tg-013, dgA)CADOVCAD

		USER NAME = tmickey	DESIGNED -	MB	REVISED -		SINGLE LINE WIRING DIAGRAM					F.A.P.	SECTION	COUNTY TOT	TAL SHEET	
			DRAWN -	SR	REVISED -	STATE OF ILLINOIS						525	2016-092B&R	MCHENRY 329	29 215	
EARLE -	6330 Belmont Road, Unit 4B	PLOT SCALE = 100.0002 '/ in.	CHECKED -	BL	REVISED -	DEPARTMENT OF TRANSPORTATION	US ROUTE 20 AT MARENGO ROAD						. 62D36			
		PLOT DATE = 5/22/2019	DATE - 0)5-22-19	REVISED -	SC	SCALE:	SHEET	0F	SHEETS	STA.	TO STA.	FED. ROAD	D DIST. NO. 1 ILLINOIS FED.	AID PROJECT LGMW (759)	

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LT–3



PANEL EQUIPMENT

BILL OF MATERIAL
DESCRIPTION
RCUIT BREAKER, 2 POLE, 600 VOLT . FRAME, 100 AMP. NON-INTERCHANGEABLE TERRUPTING RATING NEMA-22000 AMP. VOLT.
CONTROL SWITCH, ELECTRICALLY OPERATED, CALLY HELD, 2 POLE, SINGLE THROW, 100 AMP., TS CONTROL CIRCUIT 240 VOLT.
BREAKERS, 1 POLE, 100AMP. FRAME , NON-INTERCHANGEABLE TRIP INTERRUPTING NEMA-10,000 AMP. AT 240 V.
_ CIRCUIT-CIRCUIT BREAKER. 1 POLE, 240 V P. FRAME, 15 AMP. NON-INTERCHANGEABLE TRIP PTING RATING NEMA-5000 AMP. AT 240 V.
DMIC MICROPROCESSOR-BASED IEL CONTROLLER [TIME SWITCH].
20 V. FUSE. SINGLE PHASE, ENCAPSULATED TRANSFORMER 180 / 120 X 240 VOLT, 60 Hz. DA SWITCH ON DOOR, TO TURN LIGHT ON WHEN 5 OPEN.
SCENT LIGHTING FIXTURE ENCLOSED AND GASKETED WATT, 120 V. LAMP.
20 V., DUPLEX RECEPTACLE, GFCI. GROUND BUS $\frac{1}{4}$ " (6.35) X 1" (25.4) X 12" (304.8 mm) DUNTED ON PANEL WITH LUGS AND 4 SPARE LUGS SWITCHES MOUNTED IN 4" (101.6) X 4" (101.6 mm) BOX.
GROUND BUS 1⁄4" (6.35) X 1" (25.4) X 12" (304.8 mm) OUNTED ON PANEL WITH LUGS AND SPARE LUGS

10. CABINETS SHALL BE PRIMED AND PAINTED AS SPECIFIED.

11. THE HEADS OF CONNECTORS SCREWS SHALL BE PAINTED WHITE FOR NEUTRAL BAR CONNECTION AND GREEN FOR GROUND BAR CONNECTORS.

COLOR CODED AS INDICATED. R = REDBL = BLUE W = WHITE B = BLACK Y = YELLOW G = GREEN

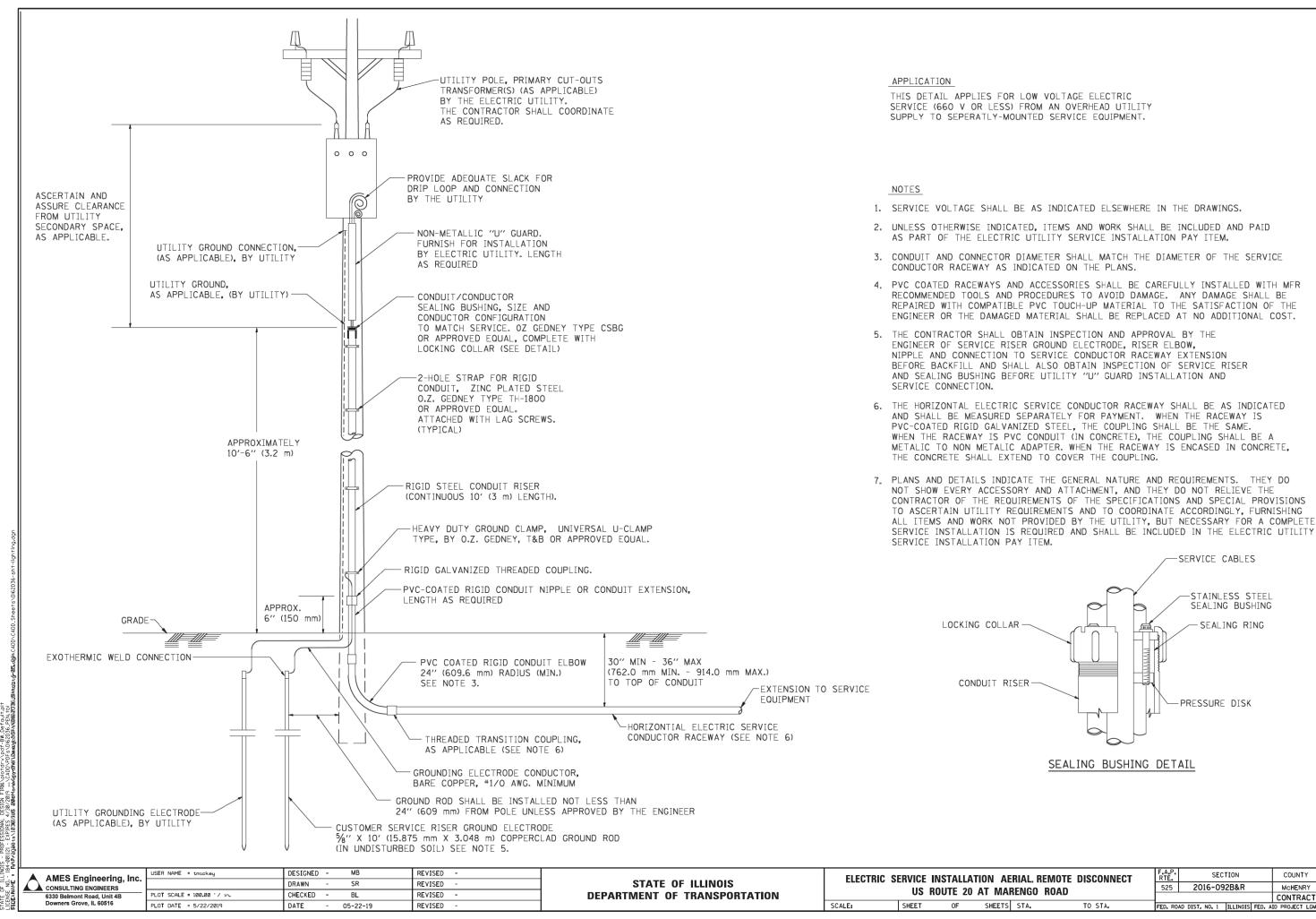
13. PROVIDE SEALING GROMMETS FOR ALL OPEN WIRING EXTENDED FROM DEVICES IN BOXES OR CABINETS WITHIN THE CONTROL CABINET.

14. ALL WIRING SHALL BE NEATLY DRESSED AND SUPPORTED.

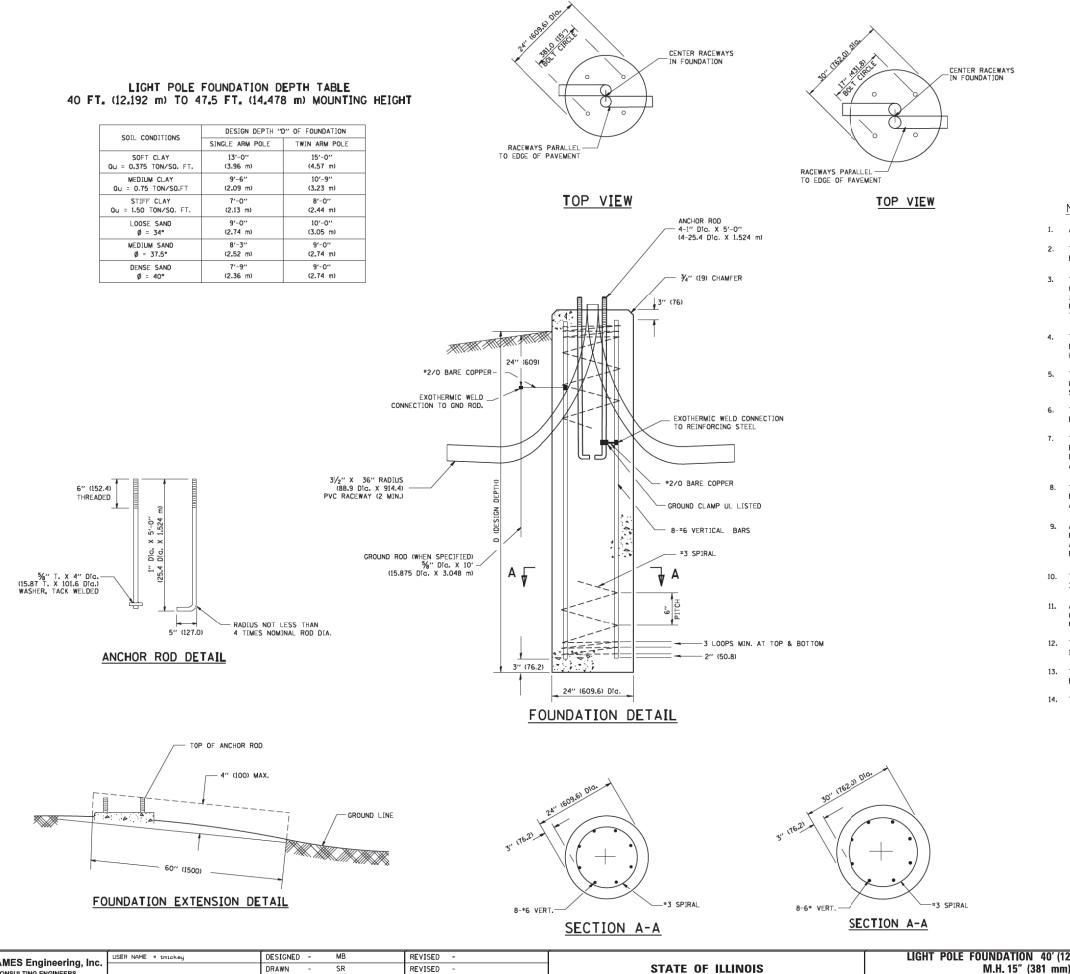
15. THE CONTROLLER SHALL BE CONSTRUCTED TO U.L. STD. 508 AND BEAR THE U.L. LABEL "ENCLOSED INDUSTRIAL CONTROL PANEL".

16. 12" (304.8) X 16" (406.4 mm) STAINLESS STEEL EXTERIOR NAMEPLATE SHALL BE ENGRAVED TO "STATE OF ILLINOIS LIGHTING CONTROLS" UNLESS OTHERWISE SPECIFIED.

							L	T–4
SINGLE DOOR		F.A.P. RTE.	SEC	SECTION		COUNTY	TOTAL SHEETS	SHEET NO.
ARENGO ROA		525	2016-09)2B&R		MCHENRY	329	216
						CONTRACT	NO. 62	2D36
S STA.	TO STA.	FED. RO/	AD DIST. NO. 1	ILLINOIS F	ED. AI	D PROJECT LGM	(759)	



								L	.T–5
AERIAL. REMOTE DISCONNECT				F.A.P. SECTION			COUNTY	TOTAL SHEETS	SHEET NO.
IARENGO ROAD		525	2016-09	2B&R		McHENRY	329	217	
							CONTRACT	NO. 62	2D36
TS	STA.	TO STA.	FED. ROA	D DIST, NO. 1	ILLINOIS	FED. A	ID PROJECT LGM	W (759)	



AMES Engineering, Inc. STATE OF ILLINOIS DRAWN SR REVISED CONSULTING ENGINEERS PLOT SCALE = 100.00 ′ / in. CHECKED BL REVISED **DEPARTMENT OF TRANSPORTATION** 6330 Belmont Road, Unit 4B Downers Grove, IL 60516 SCALE: PLOT DATE = 5/22/2019 DATE 05-22-19 REVISED SHEET

NOTES

1. ALL DIMENSIONS ARE IN INCHES (MILLIMETERS) UNLESS OTHERWISE SHOWN.

THE ANCHOR RODS AND RACEWAYS SHALL BE PROPERLY SECURED IN PLACE BEFORE THE CONCRETE IN PLACED.

THE FOUNDATION SHALL NOT PROTRUDE MORE THAN 100MM (4 IN.) ABOVE THE FINISHED GRADE WITHIN A 60 IN. (1.5 m) CHORD ACROSS THE FOUNDATION, WITH ANCHOR RODS INCLUDED, IN ACCORDANCE WITH AASHTO GUIDELINES. IF THE FOUNDATION HEIGHT, INCLUDING ANCHOR RODS, EXTENDS BEYOND THESE SPECIFIED LIMITS, THE FOUNDATION SHALL BE REPLACED AT THE CONTRACTOR'S EXPENSE, SEE FOUNDATION EXTENSION DETAIL.

THE HOLE FOR THE FOUNDATION SHALL BE MADE BY DRILLING WITH AN AUGER, OF THE SAME DIAMETER AS THE FOUNDATION. IF SOIL CONDITIONS REQUIRE THE USE OF A LINER TO FORM THE HOLE, THE LINER SHALL BE WITHDRAWN AS THE CONCRETE IS DEPOSITED.

THE TOP OF THE FOUNDATION SHALL BE CONSTRUCTED LEVEL. A LINER OR FORM SHALL BE USED TO PRODUCE A UNIFORM SMOOTH SIDE TO THE TOP OF THE FOUNDATION. FOUNDATION TOP SHALL BE CHAMFERED 34-IN. (20 mm).

6. THE CONCRETE SHALL BE CLASS SI. CONCRETE SHALL CURE ACCORDING TO ARTICLE 1020.13 BEFORE LIGHT POLES ARE INSTALLED.

THE ANCHOR ROD SHALL BE A HOOK ROD TYPE. COLD BENDING OF THE ANCHOR ROD WILL NOT BE ALLOWED. THE RADIUS OF THE HOOK BEND SHALL NOT BE LESS THAN 4 TIMES THE NOMINAL DIAMETER OF THE ANCHOR ROD. A TACK WELDED ANCHOR ROD MAY BE SUBSTITUTED WITH THE APPROVAL OF THE ENGINEER.

 THE ANCHOR RODS SHALL BE ACCORDING TO ASTM F1554 GRADE 725 (GRADE 105). NUTS SHALL BE HEXAGON NUTS ACCORDING TO ASTM A 194 2H OR ASTM A 563 DH, AND WASHERS SHALL BE ACCORDING TO ASTM F 436.

9. ANCHOR RODS, NUTS AND WASHERS SHALL BE COMPLETELY GALVANIZED BY EITHER THE HOT-DIPPED PROCESS CONFORMING WITH AASHTO M 232, THE MECHANICAL PLATING METHOD CONFORMING TO AASHTO M 298, CLASS 50 WITH A MAXIMUM COATING THICKNESS OF 150 UM(6 MILS) OR THE ELECTROLYTIC PROCESS ACCORDING TO ASTM F 1136.

10. THE ANCHOR RODS SHALL BE THREADED A MINIMUM OF 6 INCHES (150 mm) WITH A MINIMUM OF 3 INCHES (75 mm) OF THREADED ANCHOR ROD EMBEDDED IN THE FOUNDATION.

11. ANCHOR RODS SHALL PROJECT 2¼" (69.9 mm) ABOVE THE TOP OF THE FOUNDATION. IF BREAKAWAY COUPLINGS ARE SPECIFIED, THE CONTRACTOR SHALL CAREFULLY COORDINATE THE ANCHOR ROD PROJECTION WITH THE INSTALLATION REQUIREMENTS OF THE BREAKAWAY COUPLINGS.

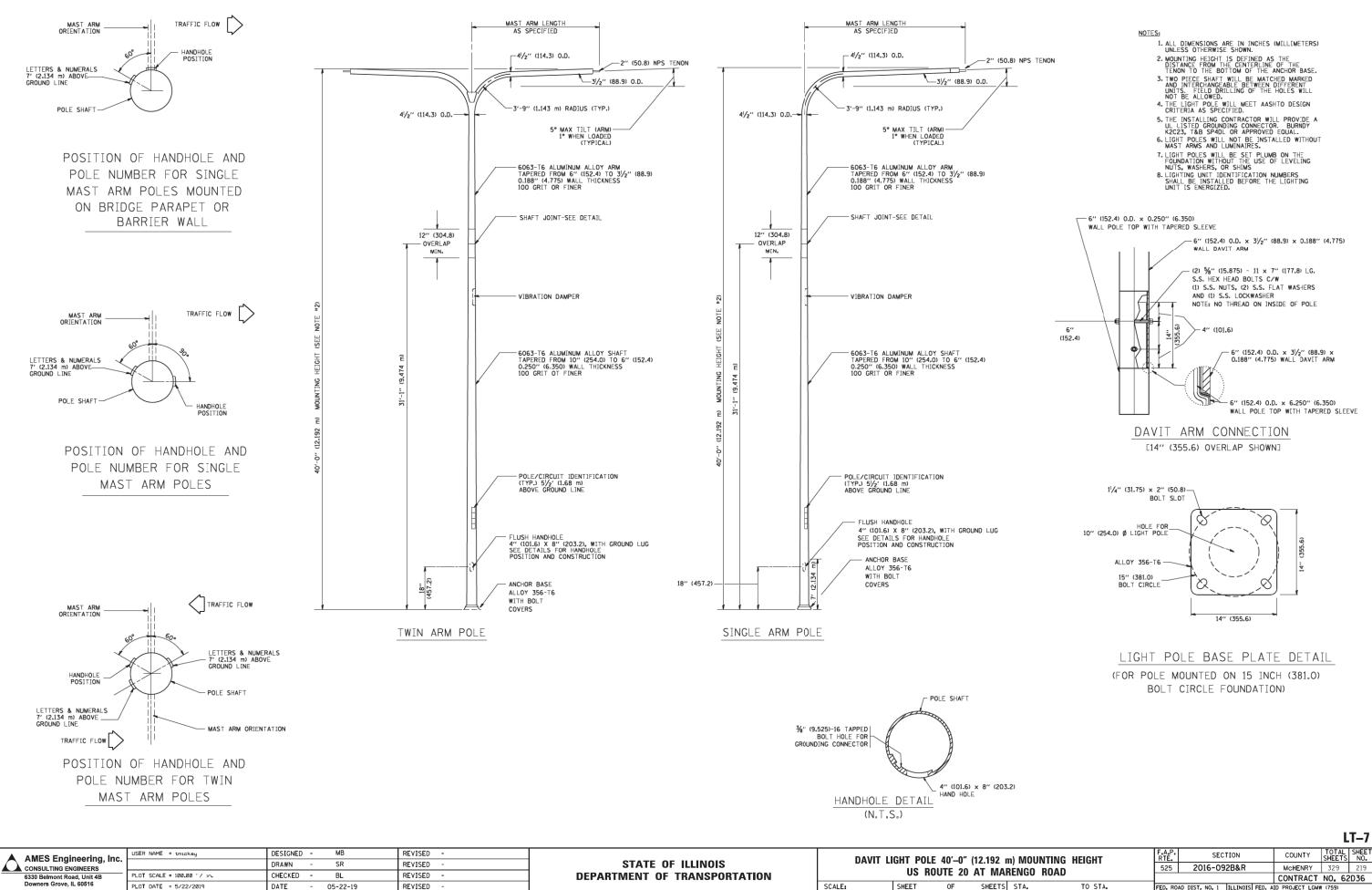
12. THE CONTRACTOR SHALL USE A *3 SPIRAL AT 6" (152.4 mm) PITCH OR MAY SUBSTITUTE *3 TIES AT 12" (304.8 mm) O.C. WITH THE APPROVAL OF THE ENGINEER.

13. THE CABLE TRENCHES AND FOUNDATION SHALL BE BACK FILLED AND COMPACTED AS SPECIFIED BEFORE THE LIGHT POLE IS ERECTED.

14. THE RACEWAYS SHALL PROJECT 1" (25.4 mm) ABOVE THE TOP OF THE FOUNDATION.

							_		
FOUNDATION 40' (12.192 m) TO 47 1/2' (14.47)	3 m)	F.A.P. RTE	SECI	TION		COUNTY	TOTAL SHEETS	SHEET NO.	
M.H. 15" (381 mm) BOLT CIRCLE		525	2016-092B&R			McHENRY	329	218	
US ROUTE 20 AT MARENGO ROAD						CONTRACT	NO. 62	2D36	
ET OF SHEETS STA. TO STA.		FED. RO	AD DIST. NO. 1	ILLINOIS	FED. A	ID PROJECT LONW	(759)		

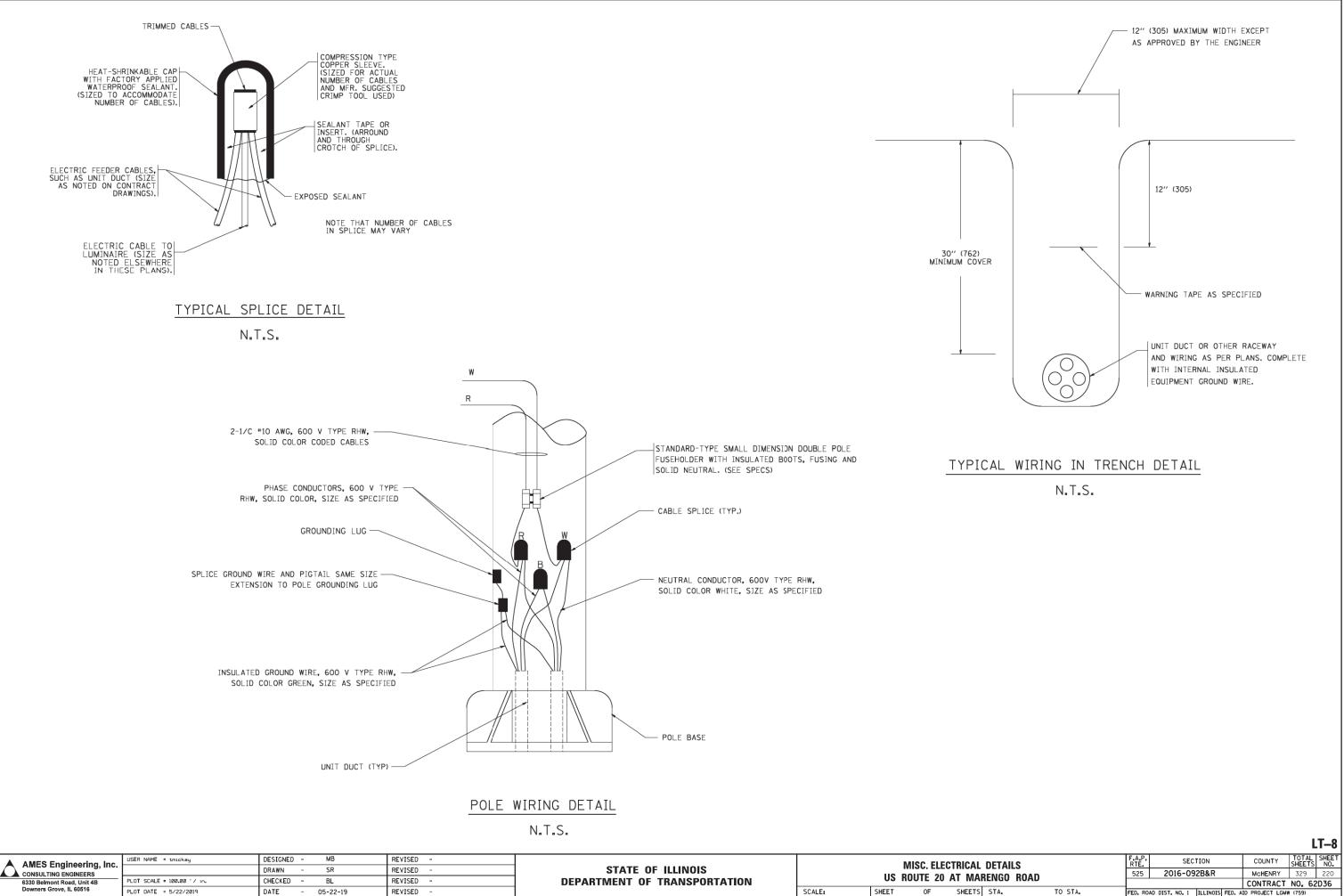
LT-6



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N017

	n) MOUNTING RENGO ROAD	HEIGHT	52		20	16-09	2B&R		McHEN	۲Y	329	15	219
ARENGU RUAD		_						CONTRA	١СТ	N0.	62	D36	
TS	STA.	TO STA.	FED.	ROAD	DIST.	NO. 1	ILLINOIS	FED. A	ID PROJECT	LGMW	(759)		

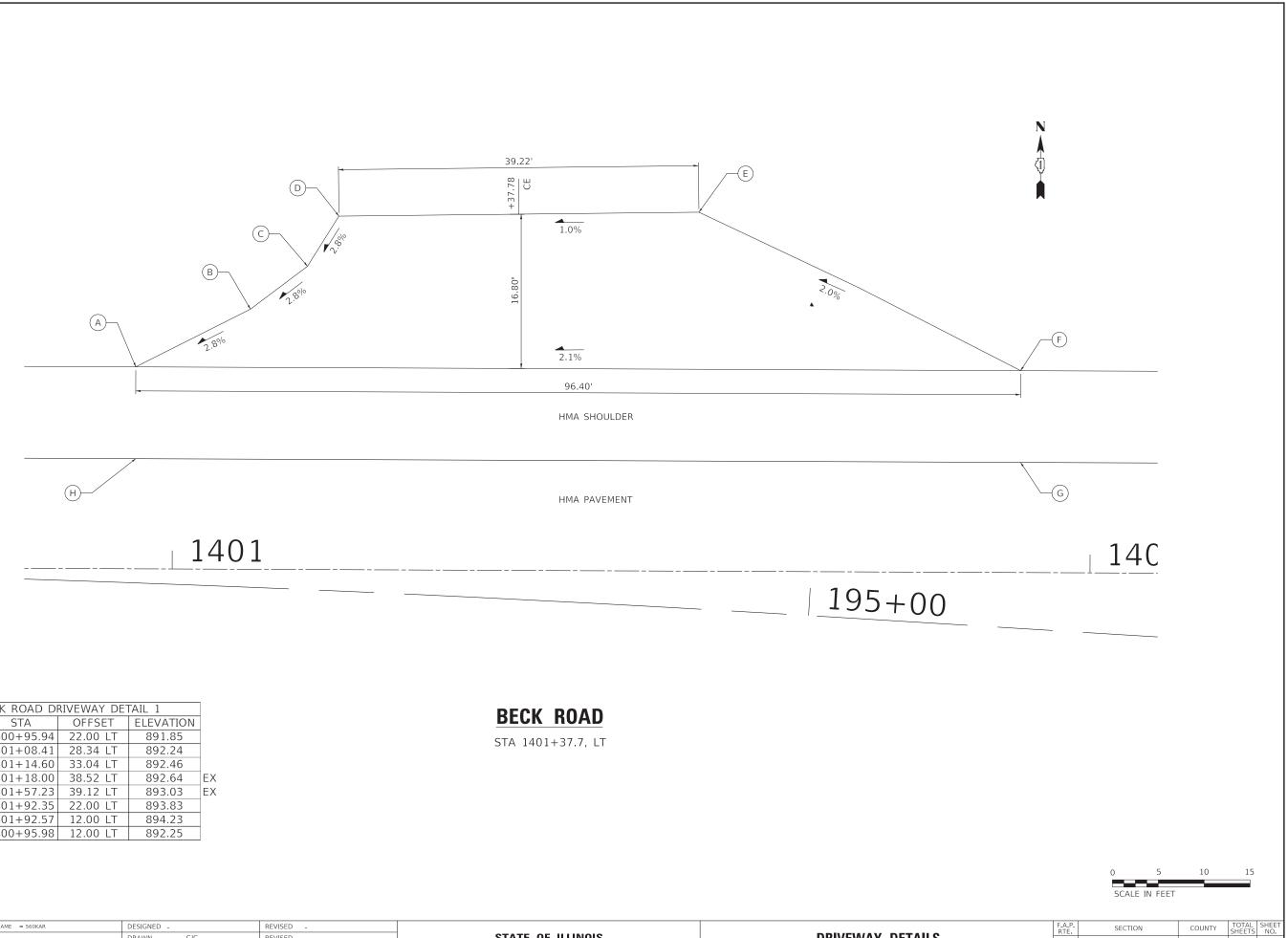


ESSIONAL EXPIRES

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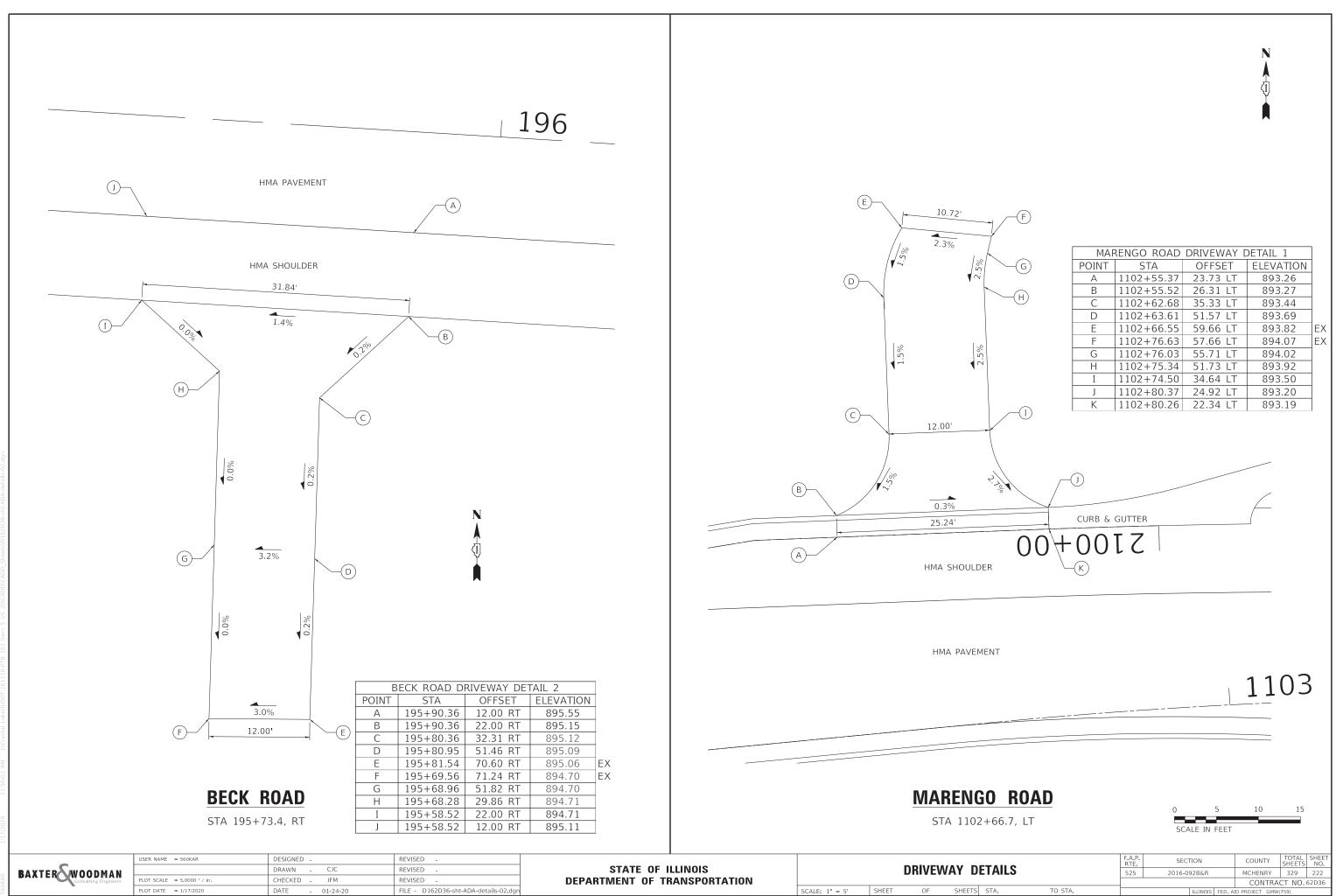
۱L	DETAILS		F.A.P. RTE	SECTION		COUNTY	TOTAL SHEETS	SHEET NO.
ARENGO ROAD		525	2016-092B&R		McHENRY	329	220	
						CONTRACT	NO. 62	D36
TS	STA.	TO STA.	FED. RO	AD DIST. NO. 1 ILLINOIS	FED, A	ID PROJECT LGMW	(759)	



В	ECK ROAD DI	RIVEWAY DE	FAIL 1]
POINT	STA	OFFSET	ELEVATION	1
Α	1400+95.94	22.00 LT	891.85	1
В	1401+08.41	28.34 LT	892.24	1
С	1401+14.60	33.04 LT	892.46	1
D	1401+18.00	38.52 LT	892.64	EX
E	1401+57.23	39.12 LT	893.03	EX
F	1401+92.35	22.00 LT	893.83	
G	1401+92.57	12.00 LT	894.23	
Н	1400+95.98	12.00 LT	892.25	

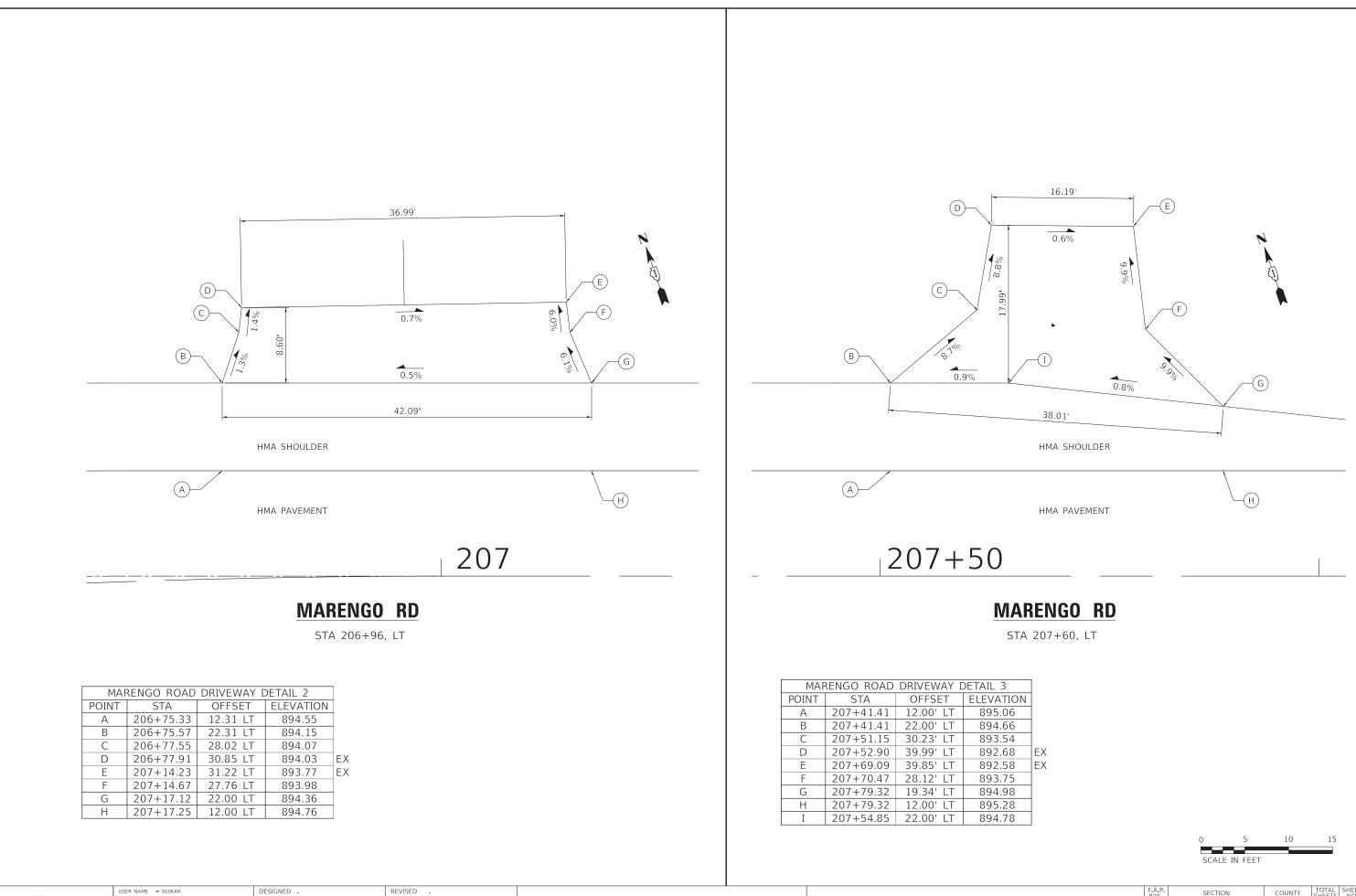
Ī	_	USER NAME = 560KAR	DESIGNED -	REVISED -					
	BAXTER		DRAWN - CJC	REVISED -	STATE OF ILLINOIS		I	DRIVEW	VAY DET
ž.	BAATER WUUDHAN Consulting Engineers	PLOT SCALE = 5.0000 ' / in.	CHECKED - JFM	REVISED -	DEPARTMENT OF TRANSPORTATION				
	-	PLOT DATE = 1/17/2020	DATE - 01-24-20	FILE - D162D36-sht-ADA-details-01.dgn		SCALE: 1" = 5'	SHEET	OF	SHEETS S

DI	ETAILS		525	2016-0	92B&R		MCHENRY	329	221
							CONTRA	CT NO.	62D36
ΓS	STA.	TO STA.			ILLINOIS	FED. A	D PROJECT GMW(759)	



01-24-20

			F.A.P. RTE	SECT	TION		COUNTY	TOTAL SHEETS	SHEET NO.
U	ETAILS		525	2016-0	92B&R		MCHENRY	329	222
							CONTRA	CT NO.	62D36
ΤS	STA.	TO STA.			ILLINOIS	FED. A	ID PROJECT GMW	(759)	



	USER NAME = 560KAR	DESIGNED -	REVISED -								F.A.P. BTE	SECTION	COUNTY	TOTAL	SHEET
BAXTER		DRAWN - CJC	REVISED -	STATE OF ILLINOIS			DRIVEV	NAY DET	AILS		525	2016-092B&R	MCHENRY	329	223
Consulting Engineers	PLOT SCALE = 5.0000 ' / in.	CHECKED - JFM	REVISED -	DEPARTMENT OF TRANSPORTATION									CONTRA	ACT NO.	52D36
	PLOT DATE = 1/17/2020	DATE - 01-24-20	FILE - D162D36-sht-ADA-details-03.dgn		SCALE: 1" = 5'	SHEET	OF	SHEETS ST.	ſA.	TO STA.		ILLINOIS FED.	AID PROJECT GMW	/(759)	

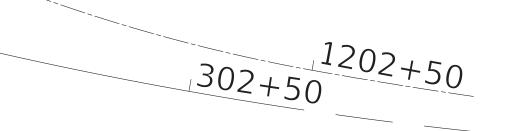
U	UNION ROAD DRIVEWAY DETAIL 1									
POINT	STA	OFFSET	ELEVATION]						
А	302+66.70	20.45 RT	890.91	1						
В	302+66.73	23.03 RT	890.92	1						
С	302+60.75	31.40 RT	890.57	1						
D	302+60.56	33.72 RT	890.49	EΧ						
E	302+47.48	36.08 RT	890.60	EΧ						
F	302+45.10	29.34 RT	891.02	1						
G	302+39.40	23.53 RT	891.52	1						
Н	302+39.35	20.95 RT	891.51	1						

►÷

HMA PAVEMENT

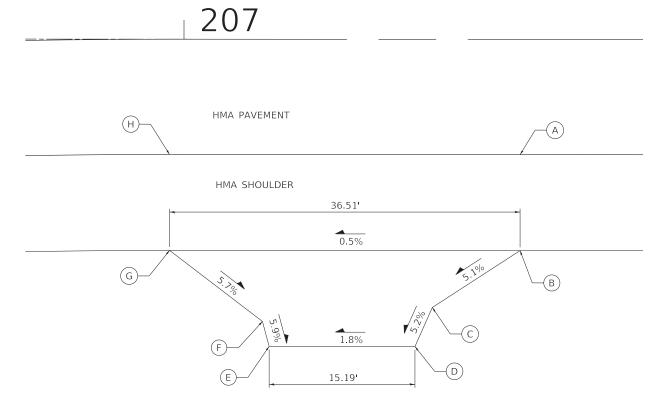
HMA SHOULDER

-



28.66'

0.8%



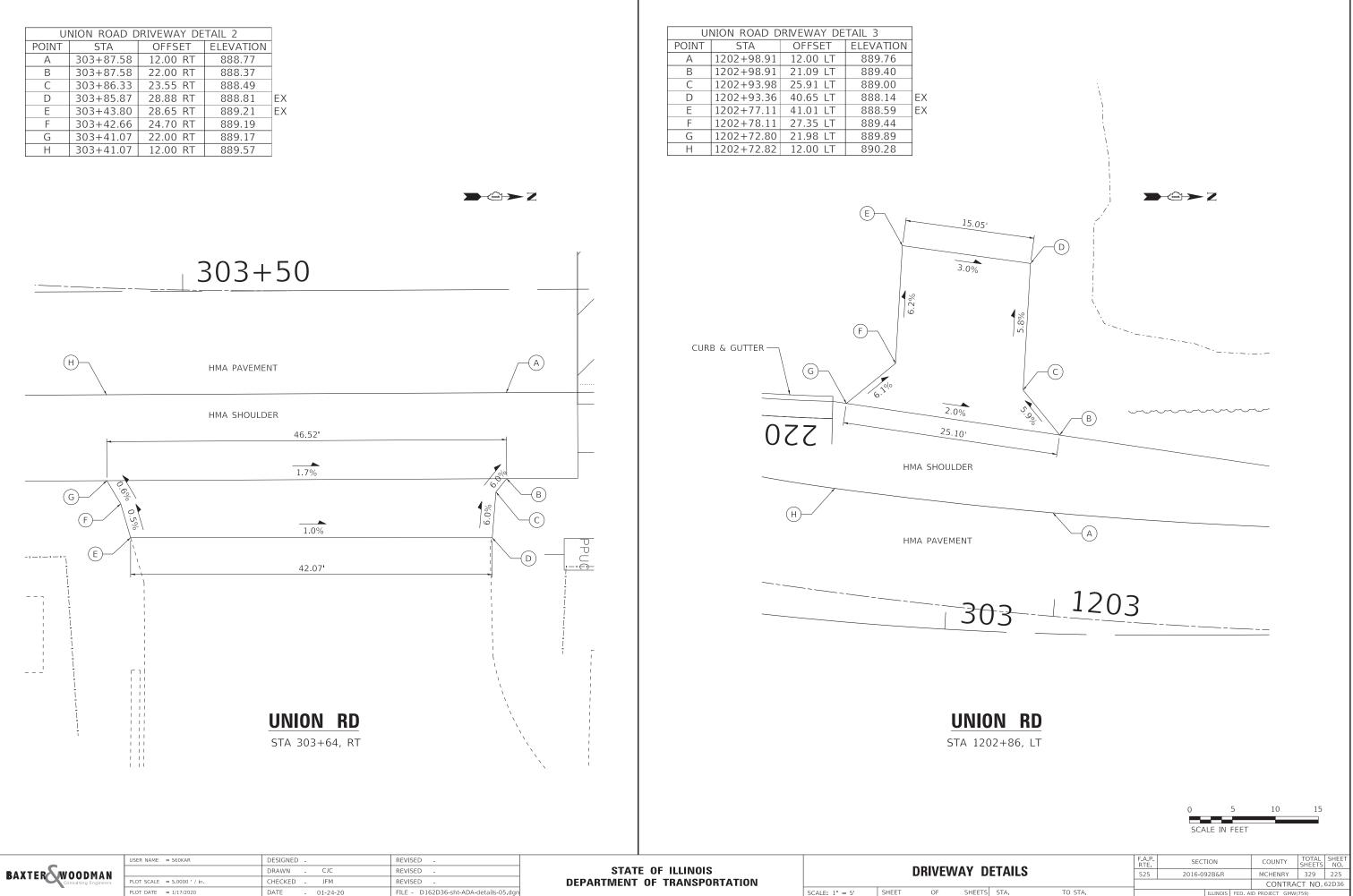
	E	0.8% 14.36' UNION RD STA 302+48.2, LT			MARENGO RD STA 207+16, RT	
						SCALE IN FEET
<u> </u>	USER NAME = 560KAR	DESIGNED - DRAWN - CIC	REVISED -			
	USER NAME = 560KAR PLOT SCALE = 5.0000 ' / in.	DESIGNED - DRAWN - CJC CHECKED - JFM	REVISED - REVISED - REVISED -	STATE OF ILLINOIS DEPARTMENT OF TRANSPORTATION	DRIVEWAY DETAILS	

				_
MAF	RENGO ROAD	DRIVEWAY D	DETAIL 4	
POINT	STA	OFFSET	ELEVATION]
A	207+35.03	12.00 RT	894.87	1
В	207+35.03	22.00 RT	894.47	1
С	207+25.90	27.93 RT	893.92	1
D	207+24.08	32.00 RT	893.69	EX
E	207+08.90	32.00 RT	893.42	EX
F	207+08.20	29.40 RT	893.58	1
G	206+98.47	22.00 RT	894.28]
Н	206+98.47	12.00 RT	894.68]

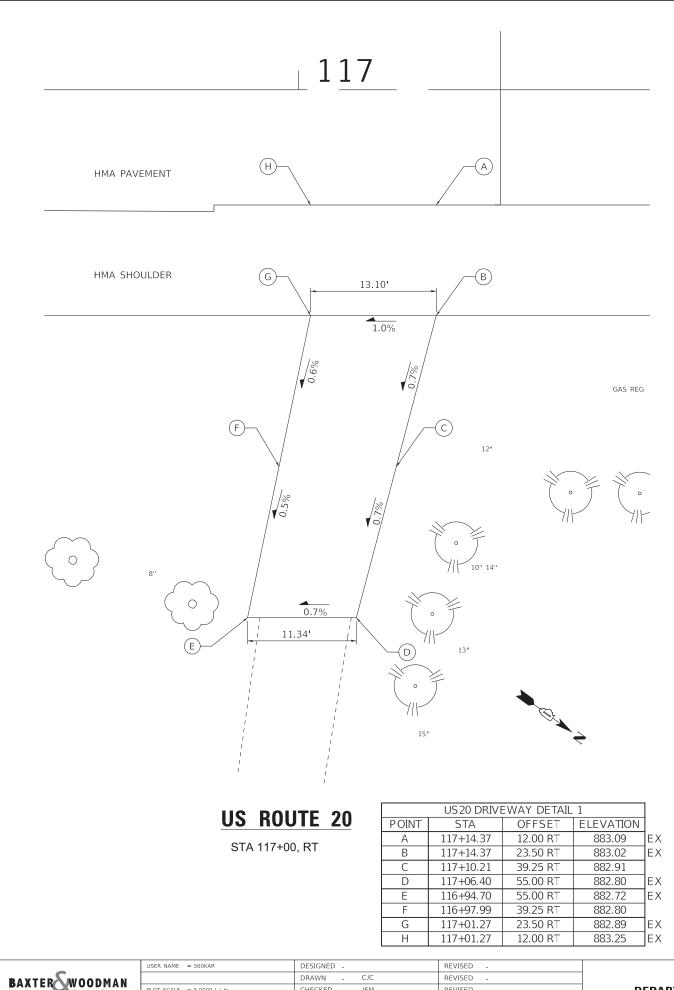


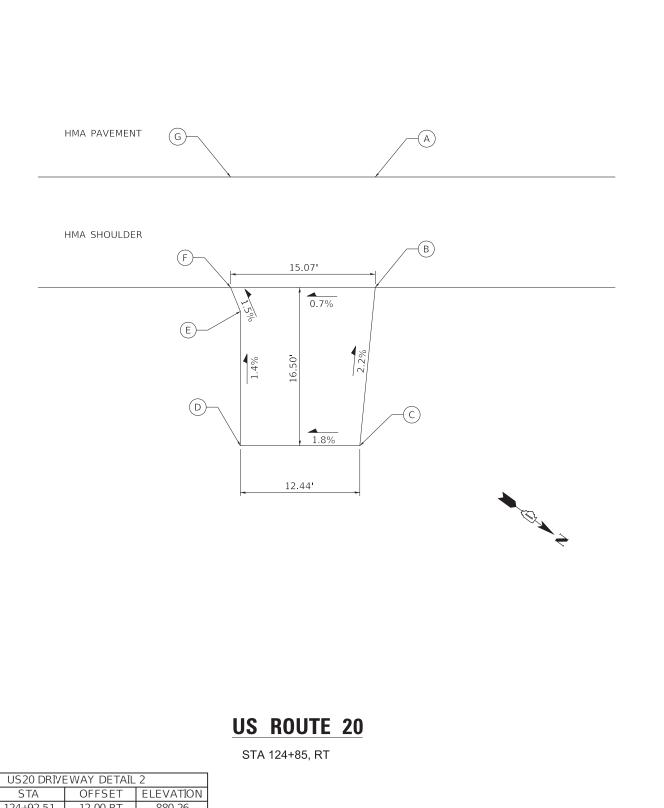






SCALE: 1" = 5' SHEET OF

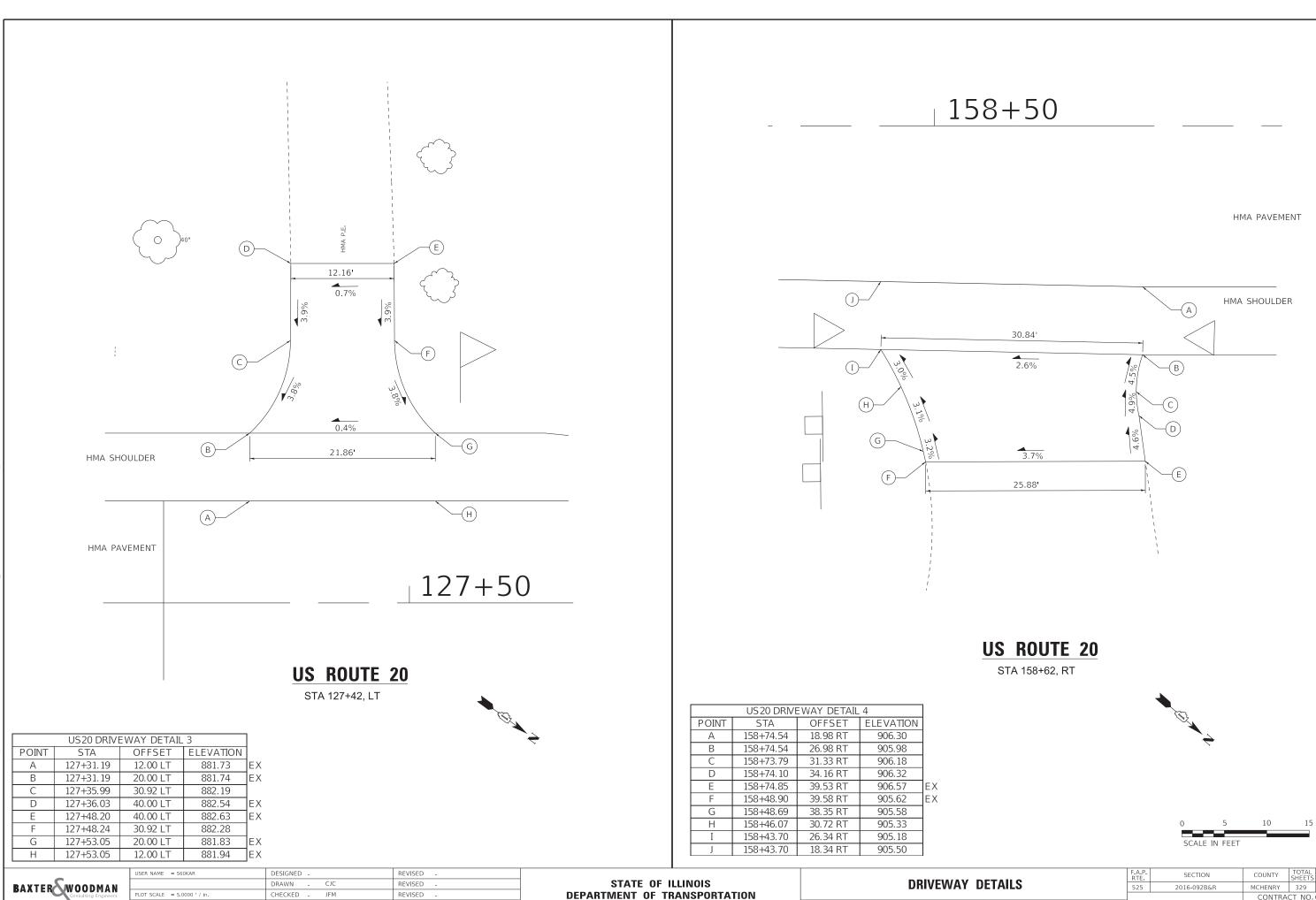




	USZU DRIVE	EVVAT DETAIL	. Z	
POINT	STA	OFFSET	ELEVATION	
А	124+92.51	12.00 RT	880.26	
В	124+92.51	23.50 RT	879.80	
С	124+90.91	40.00 RT	880.16	ΕX
D	124+78.47	40.00 RT	879.94	ΕX
E	124+78.47	26.00 RT	879.74]
F	124+77.44	23.50 RT	879.70	
G	124+77.44	12.00 RT	880.16	
				-

	USER NAME = 560KAR	DESIGNED -	REVISED -							F.A.P.	SECTION	COUNTY	TOTAL SH	EET
BAXTER WOODMAN		DRAWN - CJC	REVISED -	STATE OF ILLINOIS DEPARTMENT OF TRANSPORTATION	DRIVEWAY DETAILS				525	2016-092B&R	MCHENRY	329 22	26	
	PLOT SCALE = 5.0000 ' / in.	CHECKED - JFM	REVISED -									CONTRAC	CT NO. 62D	36
-	PLOT DATE = 1/17/2020	DATE - 01-24-20	FILE - D162D36-sht-ADA-details-06.dgn		SCALE: 1" = 5'	SHEET	OF	SHEETS STA.	TO STA.		ILLINOIS FED.	AID PROJECT GMW(759)	





PLOT DATE = 1/17/2020

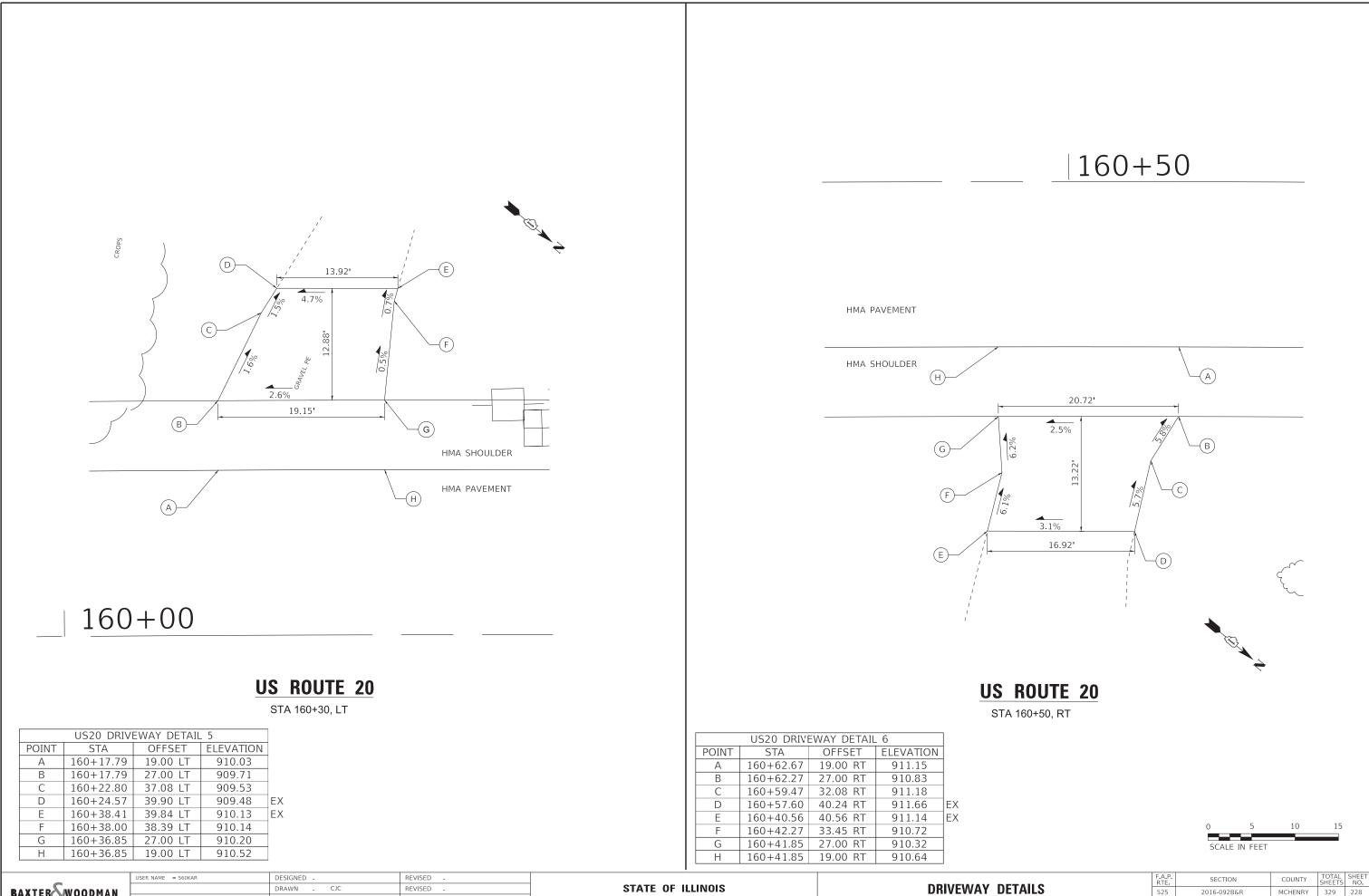
DATE

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FILE - D162D36-sht-ADA-details-07.dgr

SCALE: 1" = 5' SHEET OF SHEET

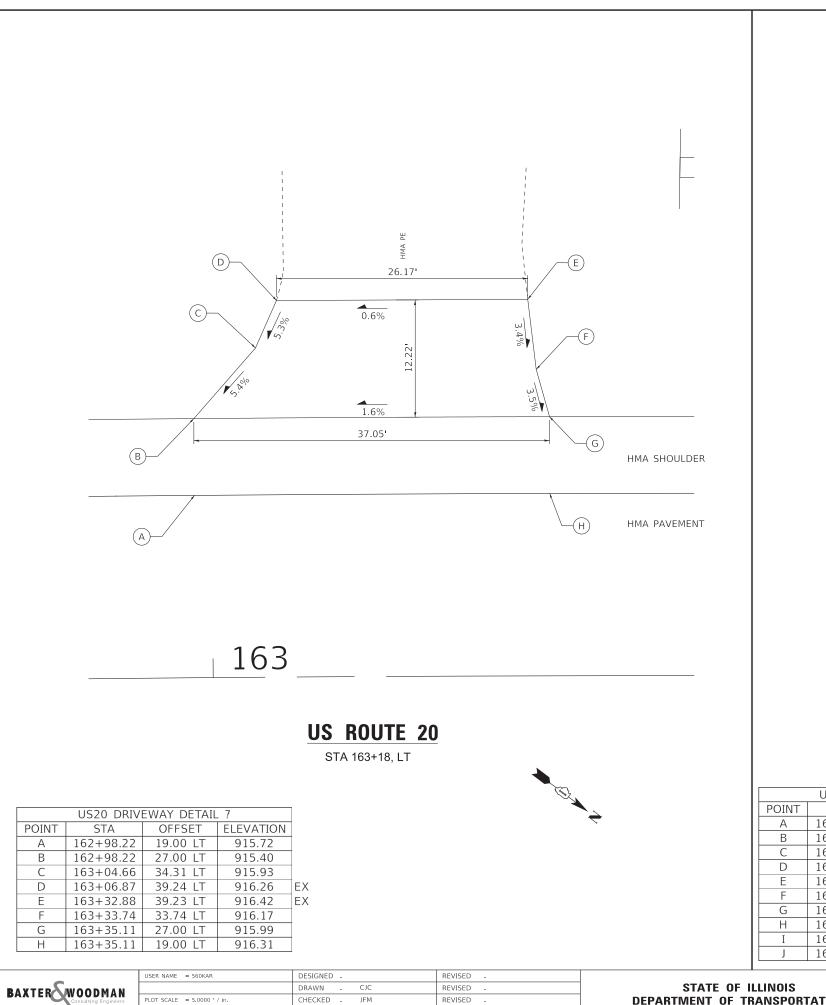
DETAILS		F.A.P. RTE	SECT	ION	COUNTY	TOTAL SHEETS	SHEET NO.			
		525	2016-0	92B&R	MCHENRY	329	227			
_					CONTRACT NO. 62D36					
TS	STA.	TO STA.			ILLINOIS FED. A	ID PROJECT GMW	(759)			



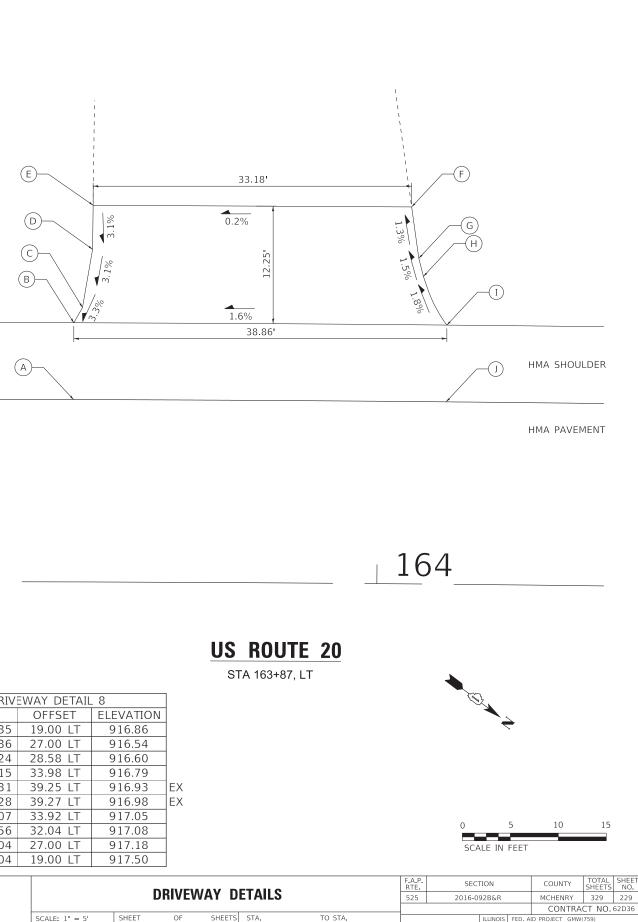
STATE OF ILLINOIS BAXTER REVISED LOT SCALE = 5.0000 ' / in. CHECKED JFM REVISED **DEPARTMENT OF TRANSPORTATION** LOT DATE = 1/17/2020 DATE FILE - D162D36-sht-ADA-details-08.dg SCALE: 1" = 5' SHEET OF SHEET 01-24-20

0	5	10	15
COLLE	IN FEFT		

DETAILS		F.A.P. RTE					TOTAL SHEETS	SHEET NO.			
		525	2016-0	92B&R		MCHENRY	329	228			
							CONTRACT NO. 62D36				
TS	STA.	TO STA.			ILLINOIS	FED. A	ID PROJECT GMW	(759)			



FILE - D162D36-sht-ADA-details-09.dg



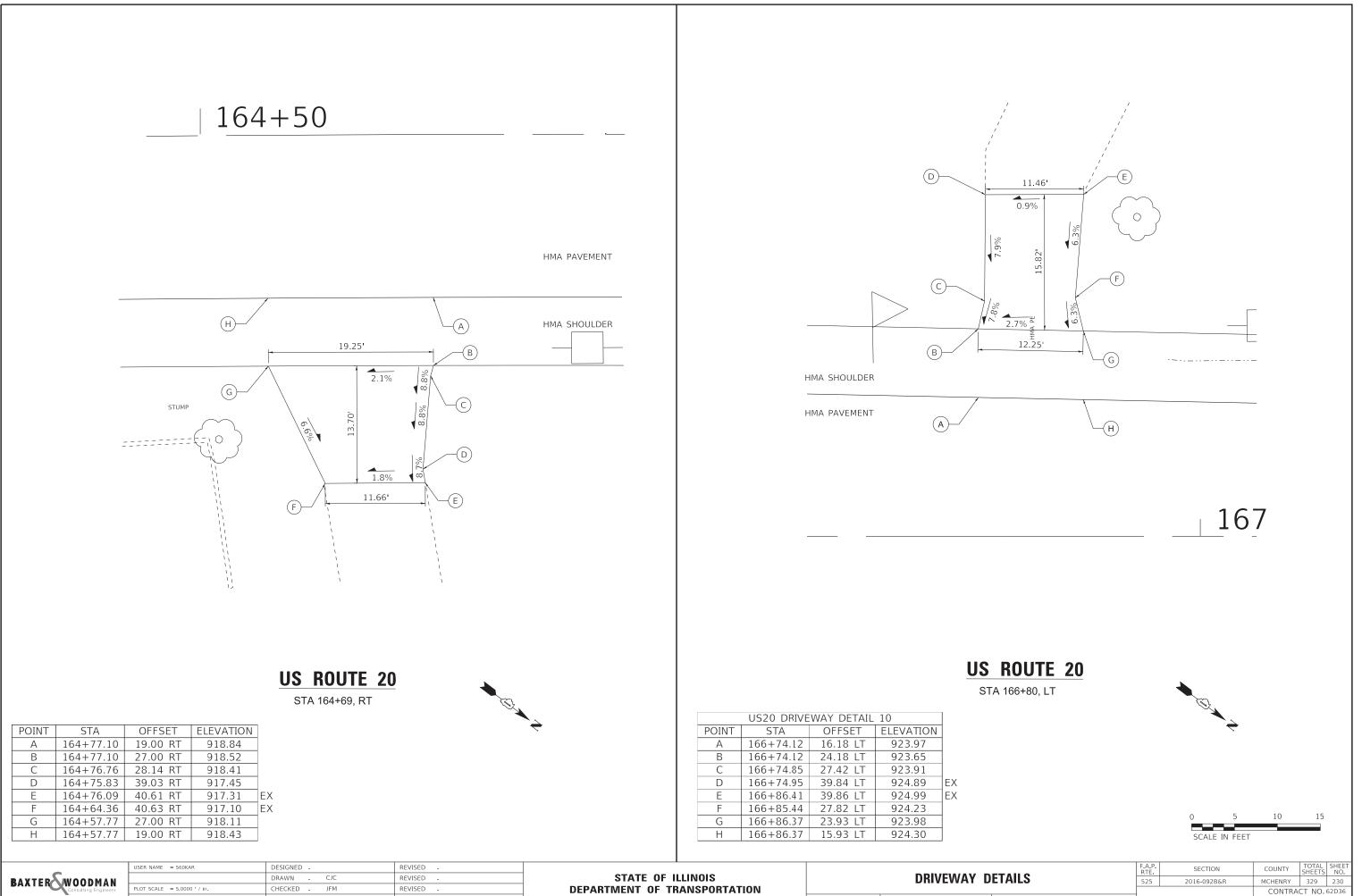
US20 DRIVEWAY DETAIL 8 STA 163+68.35 19.00 LT 163+68.36 27.00 LT 163+69.24 28.58 LT 163+70.15 33.98 LT 163+70.31 39.25 LT 164+03.28 39.27 LT 164+04.07 33.92 LT 164+04.56 32.04 LT 164+07.04 27.00 LT 164+07.04 19.00 LT

STATE OF ILLINOIS DEPARTMENT OF TRANSPORTATION			DRIVEW	AY DI	E <i>F</i>
	SCALE: 1" = 5'	SHEET	OF	SHEETS	STA
				-	

LOT DATE = 1/17/2020

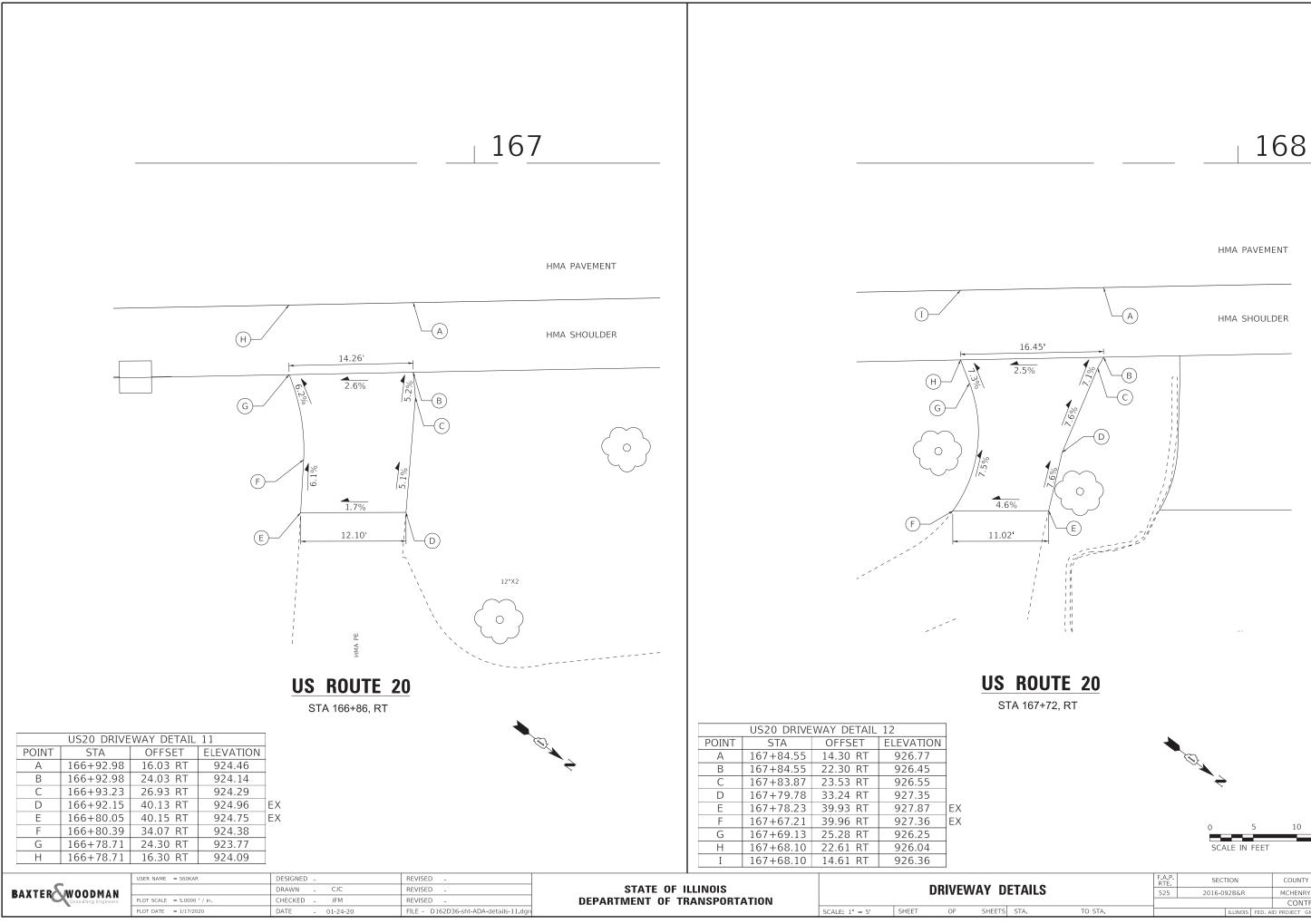
DATE

01-24-20

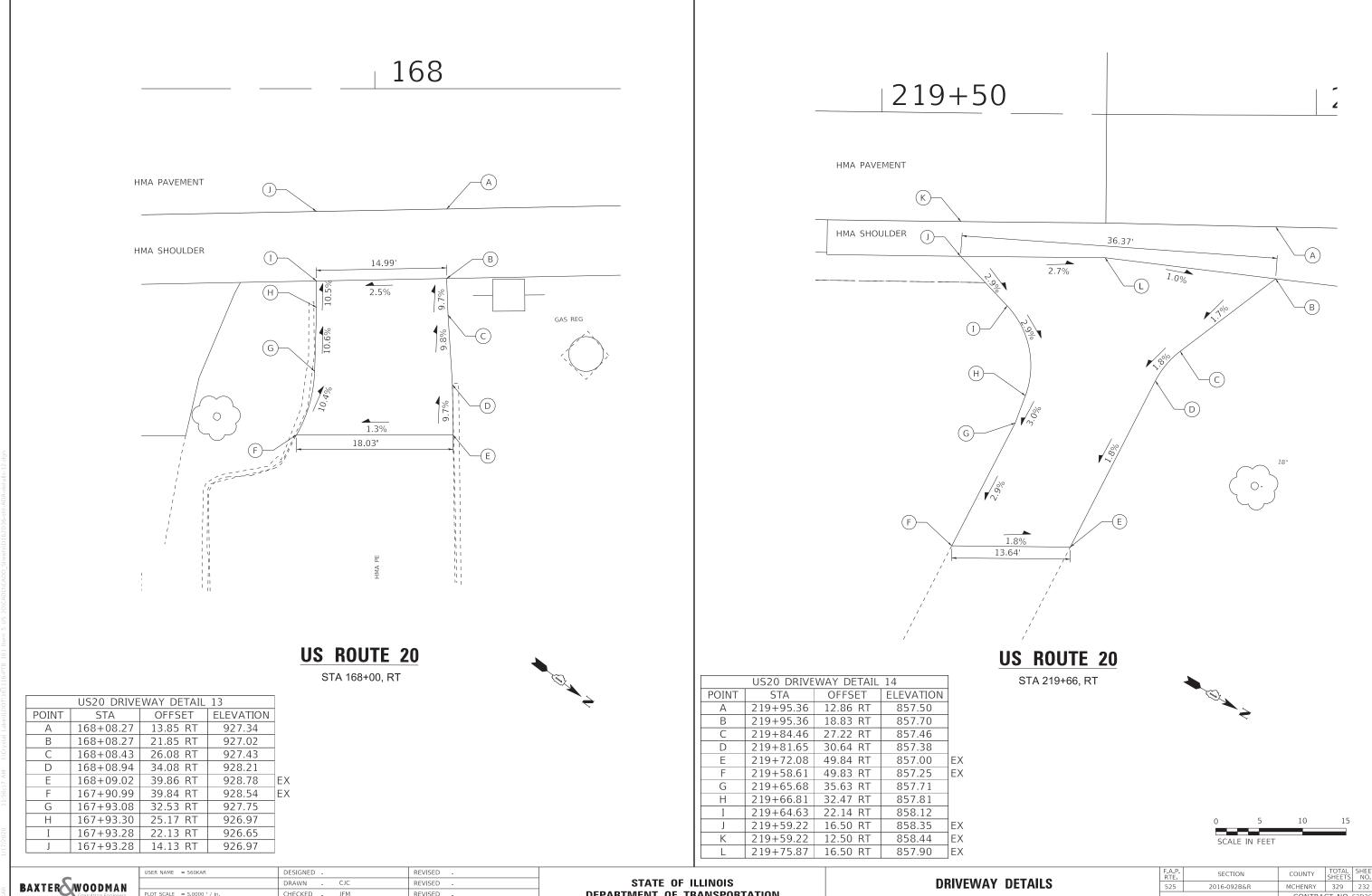


TO STA.

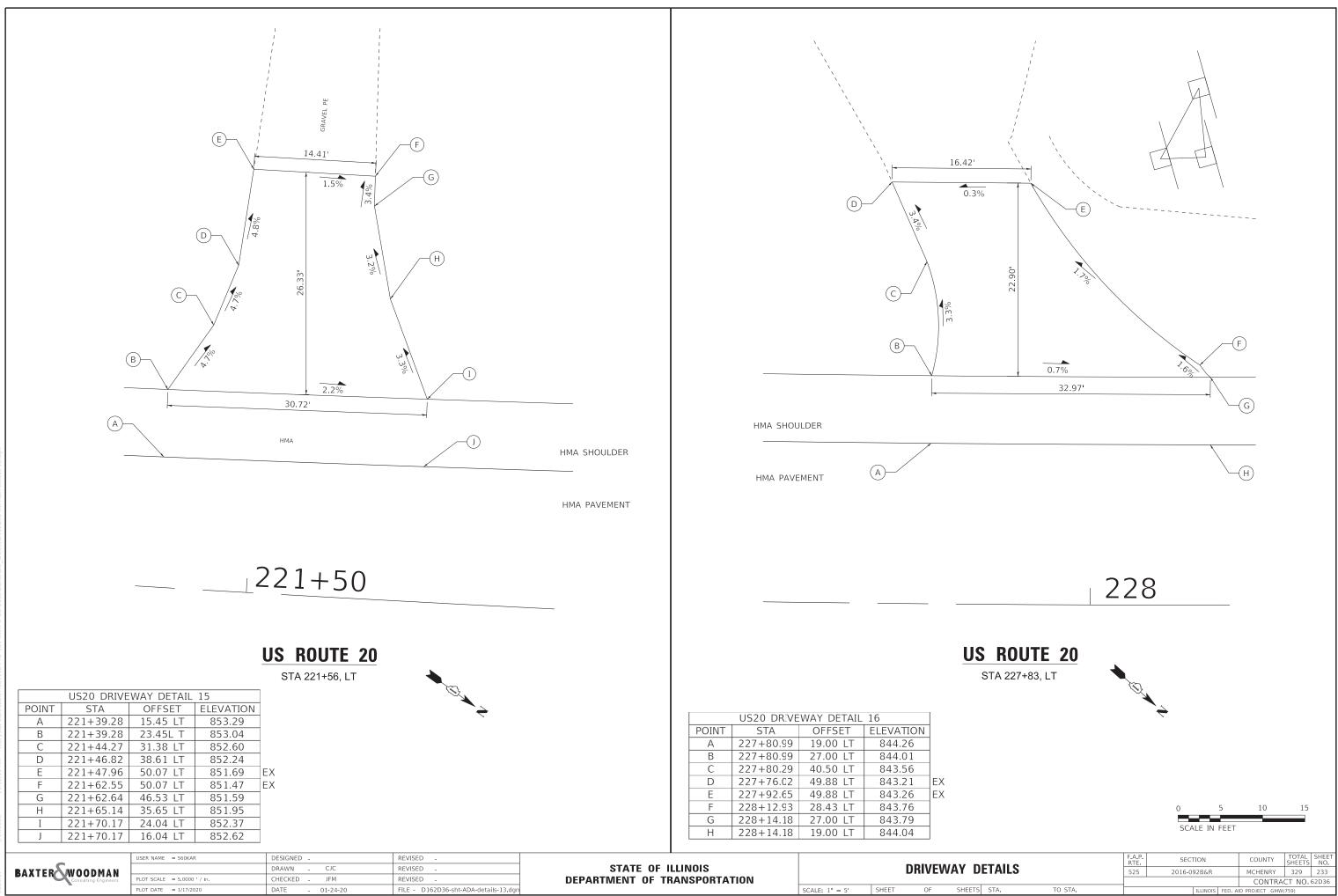
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	PLOT SCALE = 5.0000 ' / in.	CHECKED - JFM	REVISED -	DEPARTMENT OF TRANSPORTATION		U		AY DETAILS	
_	PLOT DATE = 1/17/2020	DATE - 01-24-20	FILE - D162D36-sht-ADA-details-10.dgn		SCALE: 1" = 5'	SHEET	OF	SHEETS STA.	

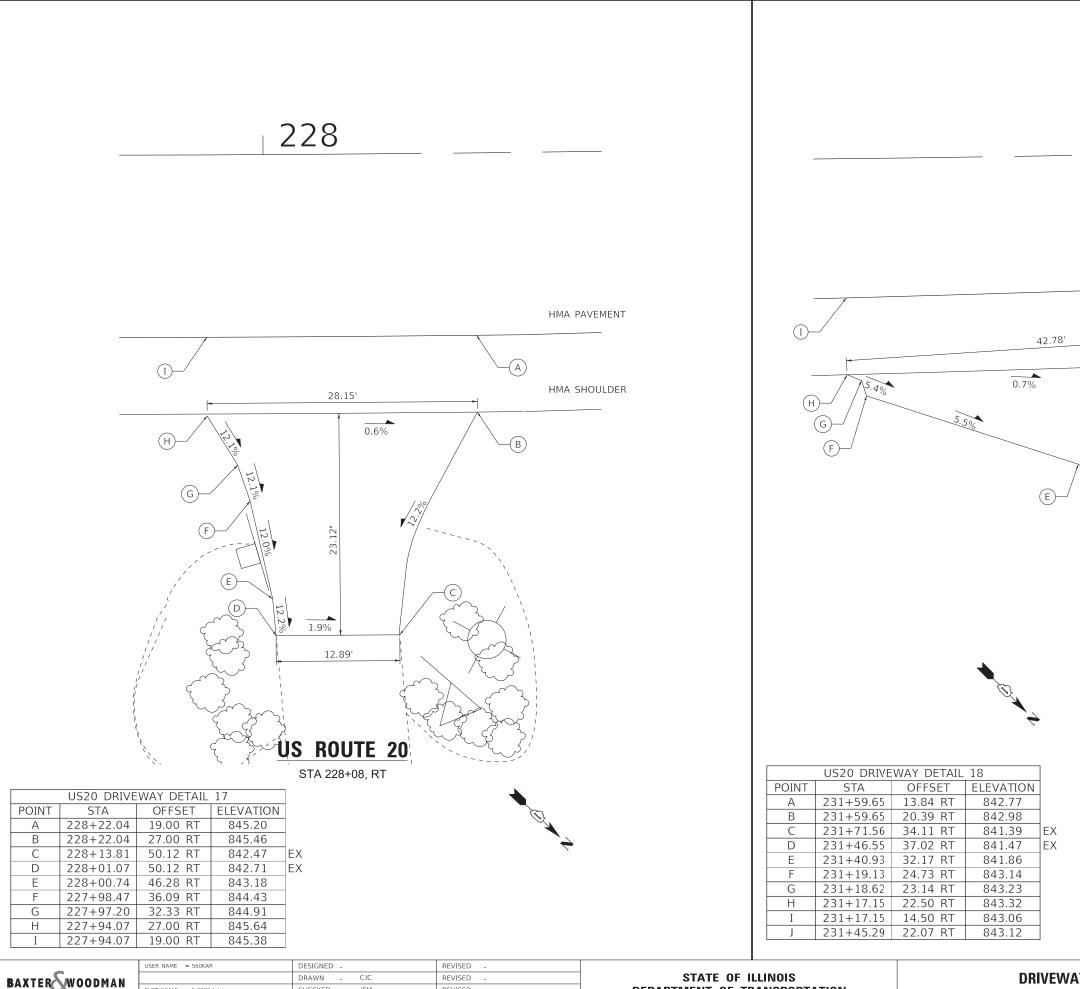


DETAILS		F.A.P. RTE	SECT	SECTION			TOTAL SHEETS	SHEET NO.			
		525	2016-0	92B&R		MCHENRY 329 231					
							CONTRACT NO. 62D36				
TS	STA.	TO STA.			ILLINOIS	FED, AI	D PROJECT G	4W(759)			

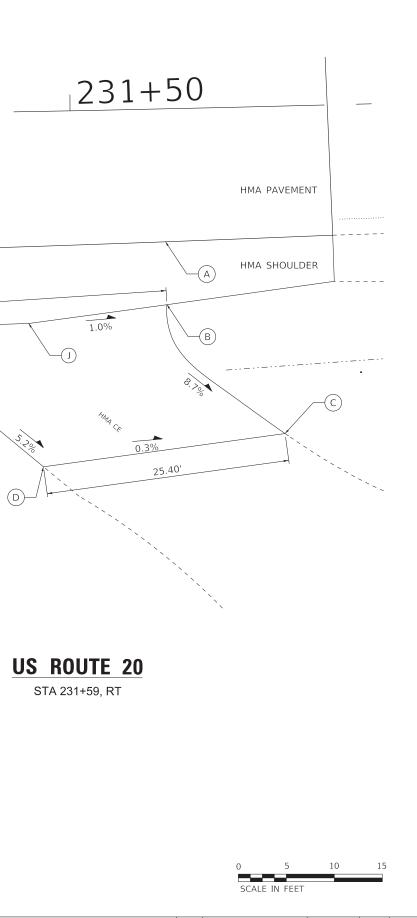


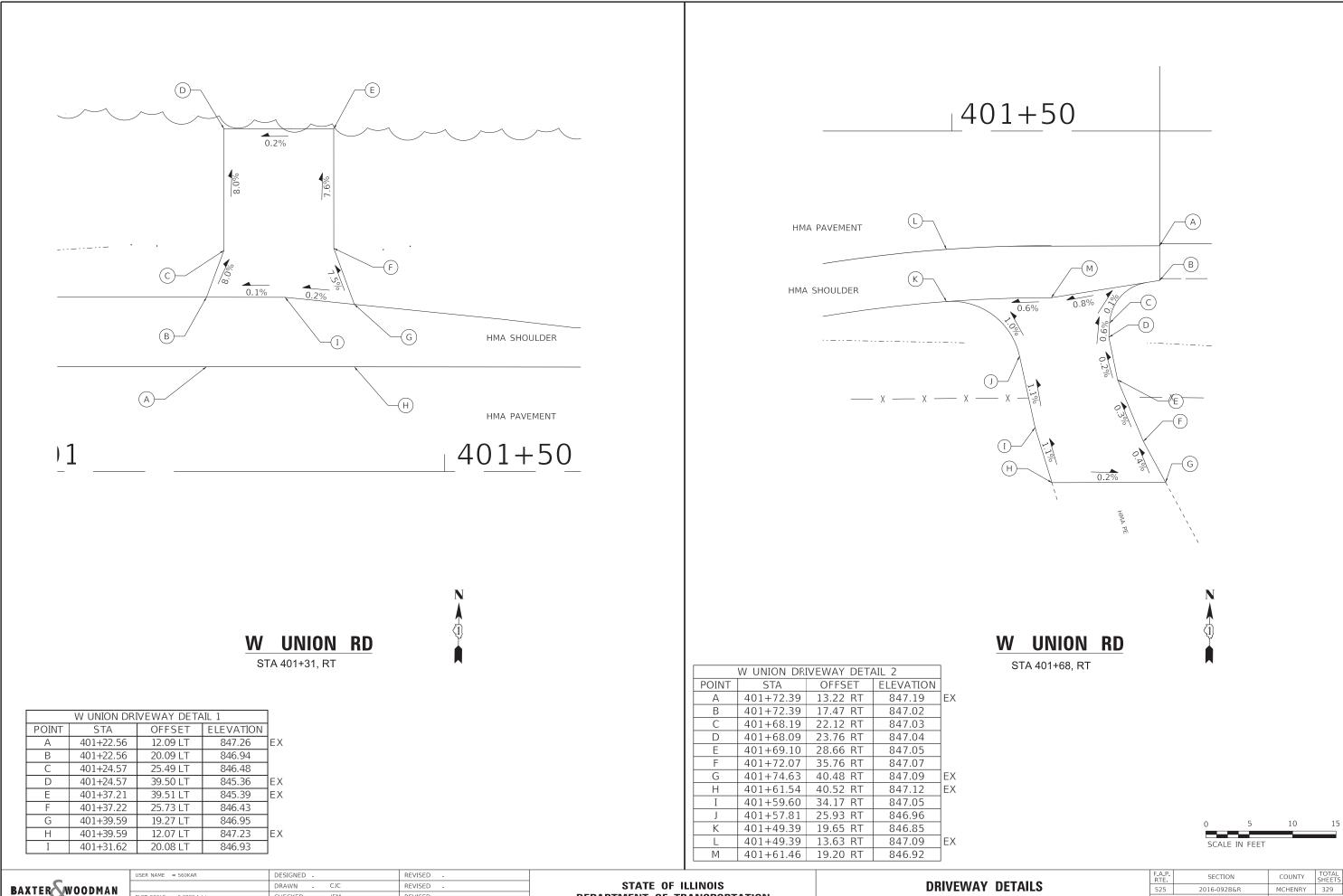
	USER NAME = 560KAR	DESIGNED -	REVISED -			_				F.A.P.	SECTION	COUNTY	SHEETS	SHEET NO.
XTER WOODMAN		DRAWN - CJC	REVISED -	STATE OF ILLINOIS	DRIVEWAY DETAILS				525	2016-092B&R	MCHENRY	329	232	
Consulting Engineers	PLOT SCALE = 5.0000 ' / in.	CHECKED - JFM	REVISED -	DEPARTMENT OF TRANSPORTATION								CONTRA	CT NO.62	2D36
_	PLOT DATE = 1/17/2020	DATE - 01-24-20	FILE - D162D36-sht-ADA-details-12.dgn		SCALE: 1" = 5'	SHEET	OF	SHEETS STA.	TO STA.		ILLINOIS FED. /	ID PROJECT GMW(759)	



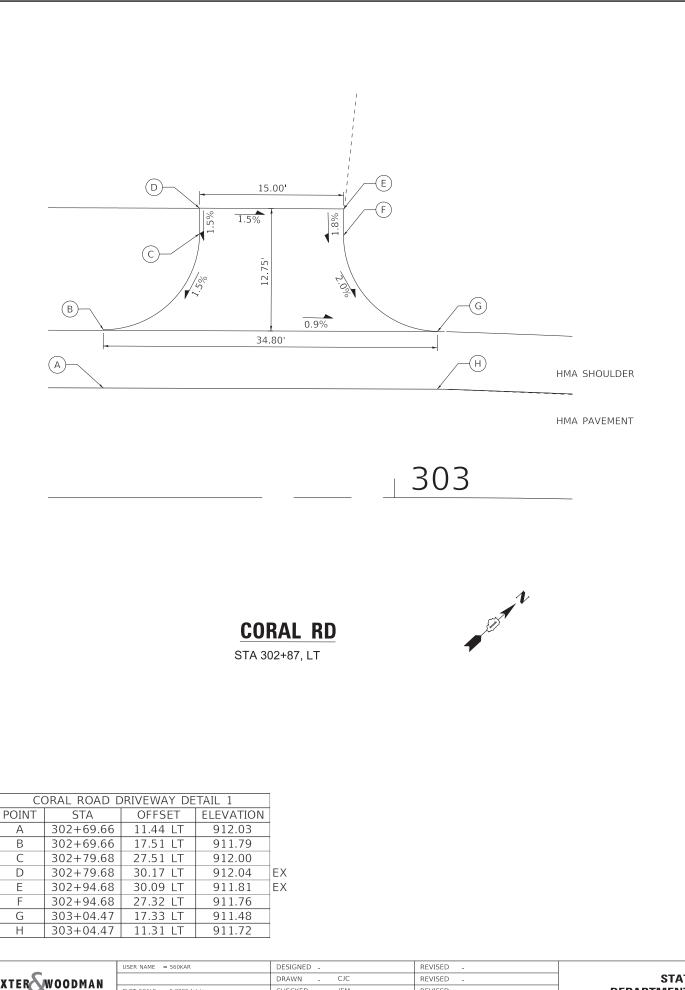


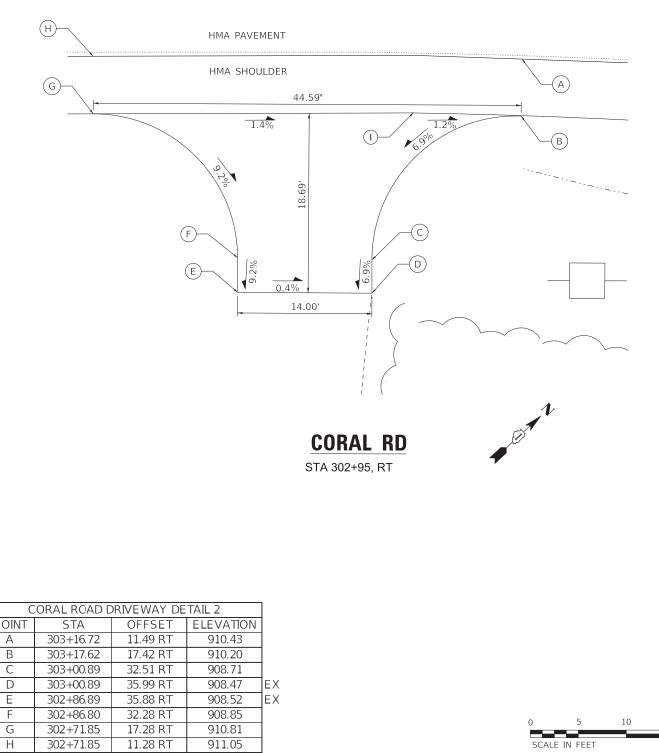
329 234
ACT NO. 62D36
N(759)
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	USER NAME = 560KAR	DESIGNED -	REVISED -								F.A.P.	SECTION	COUNTY	TOTAL SHEET
XTER WOODMAN Consulting Engineers PLOT		DRAWN - CJC	REVISED -	STATE OF ILLINOIS	DRIVEWAY DETAILS					525	2016-092B&R	MCHENRY	329 235	
	PLOT SCALE = 5.0000 ' / in.	CHECKED - JFM	REVISED -	DEPARTMENT OF TRANSPORTATION									CONTRA	ACT NO. 62D36
	PLOT DATE = 1/17/2020	DATE - 01-24-20	FILE - D162D36-sht-ADA-details-15.dgn		SCALE: 1" = 5'	SHEET	OF	SHEETS	STA.	TO STA.	ILLINOIS FED. AID PRO		AID PROJECT GMV	W(759)

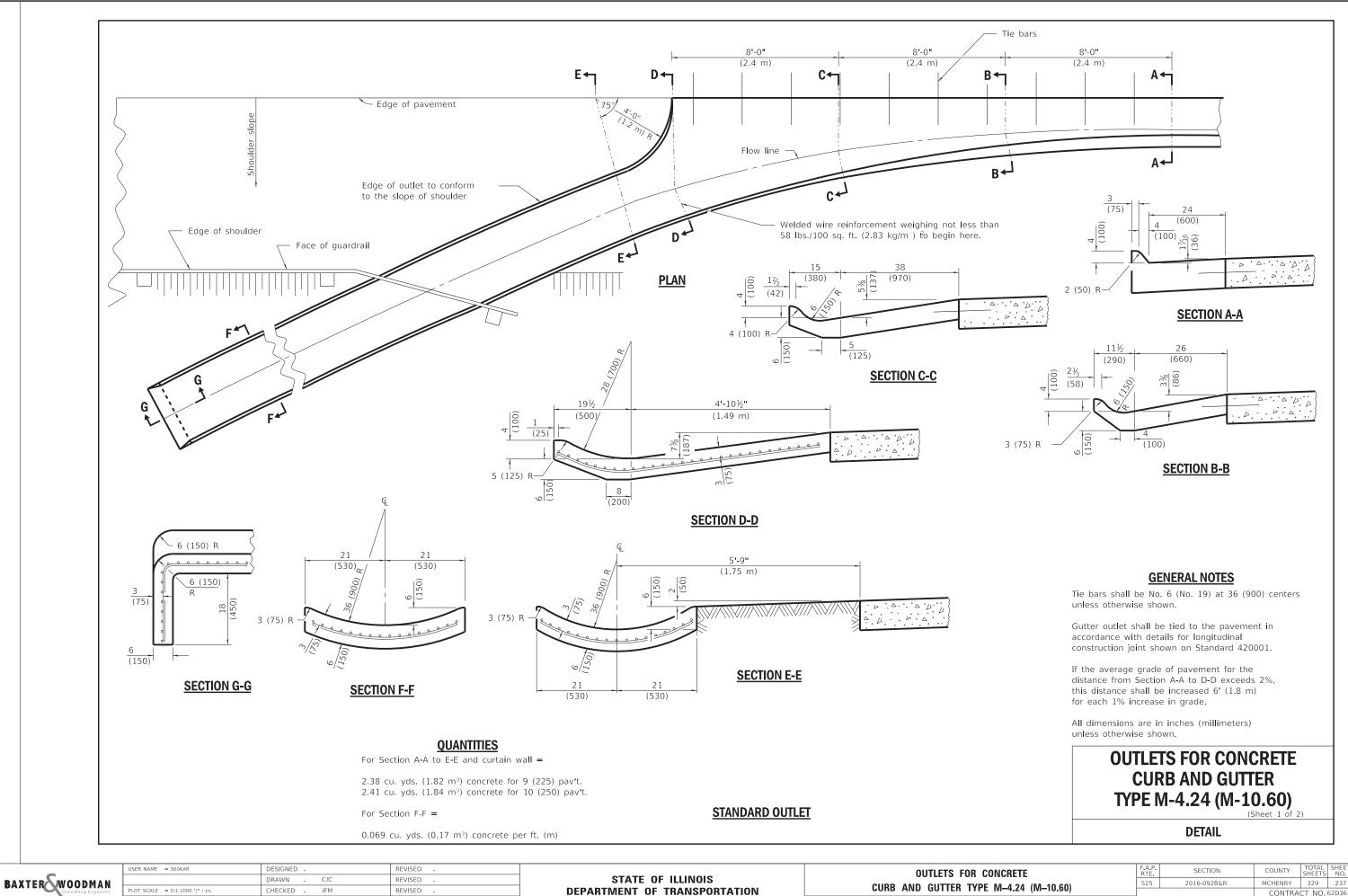




				_
C	ORAL ROAD D	DRIVEWAY DE	TAIL 2]
POINT	STA	OFFSET	ELEVATION]
А	303+16.72	11.49 RT	910.43]
В	303+17.62	17.42 RT	910.20	1
С	303+00.89	32.51 RT	908.71	1
D	303+00.89	35.99 RT	908.47	ΕX
E	302+86.89	35.88 RT	908.52	ΕX
F	302+86.80	32.28 RT	908.85]
G	302+71.85	17.28 RT	910.81]
Н	302+71.85	11.28 RT	911.05]
Ι	303+05.24	17.19 RT	910.34]

	_	USER NAME = 560KAR	DESIGNED -	REVISED -					
	BAXTER		DRAWN - CJC	REVISED -	STATE OF ILLINOIS			DRIVEV	VAY DE
ŝ	BAXIER WOODMAN Consulting Engineers	PLOT SCALE = 5.0000 ' / in.	CHECKED - JFM	REVISED -	DEPARTMENT OF TRANSPORTATION				
ŝ	-	PLOT DATE = 1/17/2020	DATE - 01-24-20	FILE - D162D36-sht-ADA-details-16.dgr		SCALE: 1" = 5'	SHEET	OF	SHEETS

WAY DETAILS			F.A.P. RTE	SECTION		COUNTY	TOTAL SHEETS	SHEET NO.	
			525	2016-092B&R			MCHENRY	329	236
				CONTRACT NO. 62D36					
SHEETS	STA.	TO STA.			ILLINOIS	FED. AI	ID PROJECT G	MW(759)	



DATE

01-24-20

FILE - 222-606006-04 outletsforconcc&g-typeb-6.24 REV.

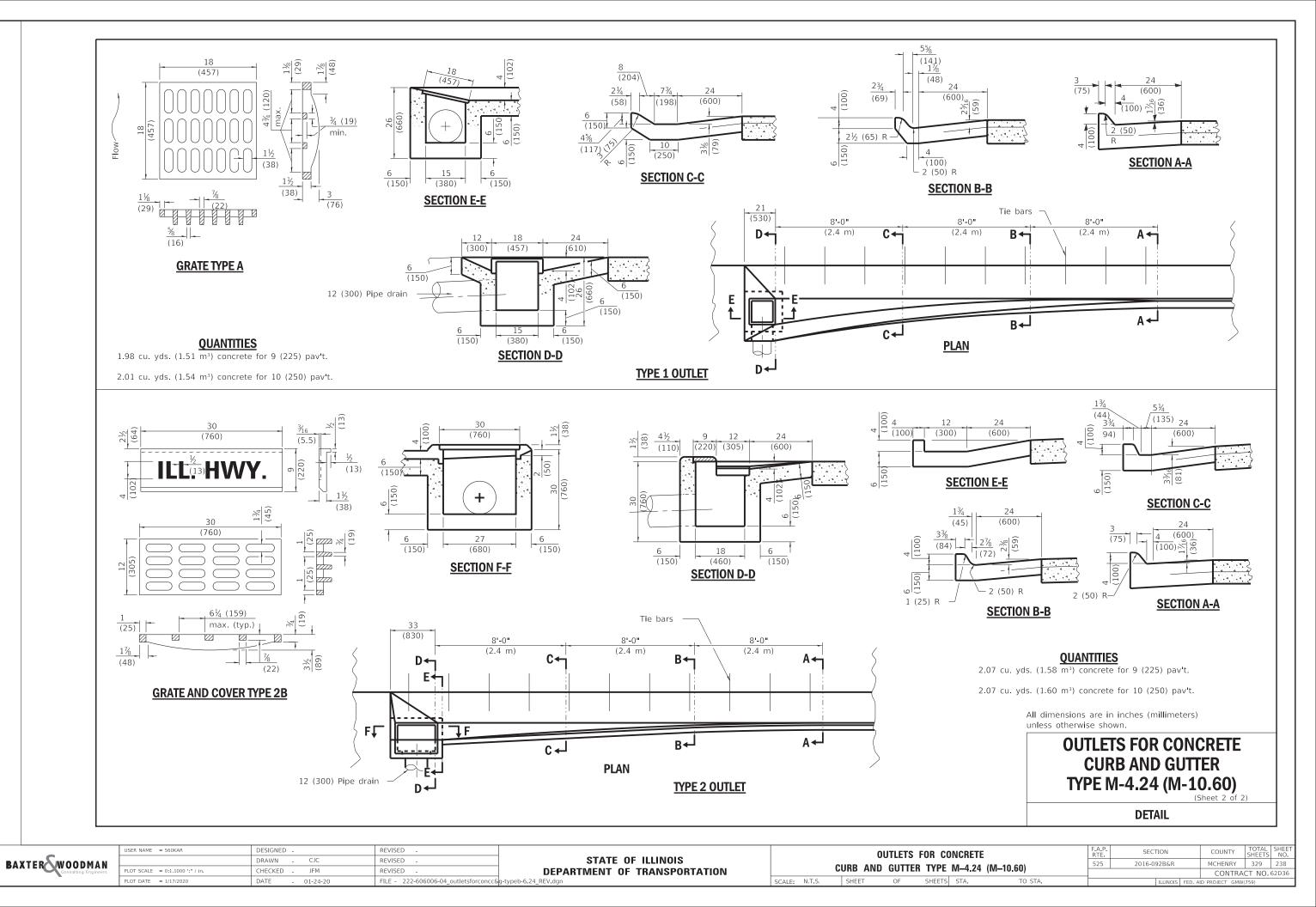
LOT DATE = 1/17/2020

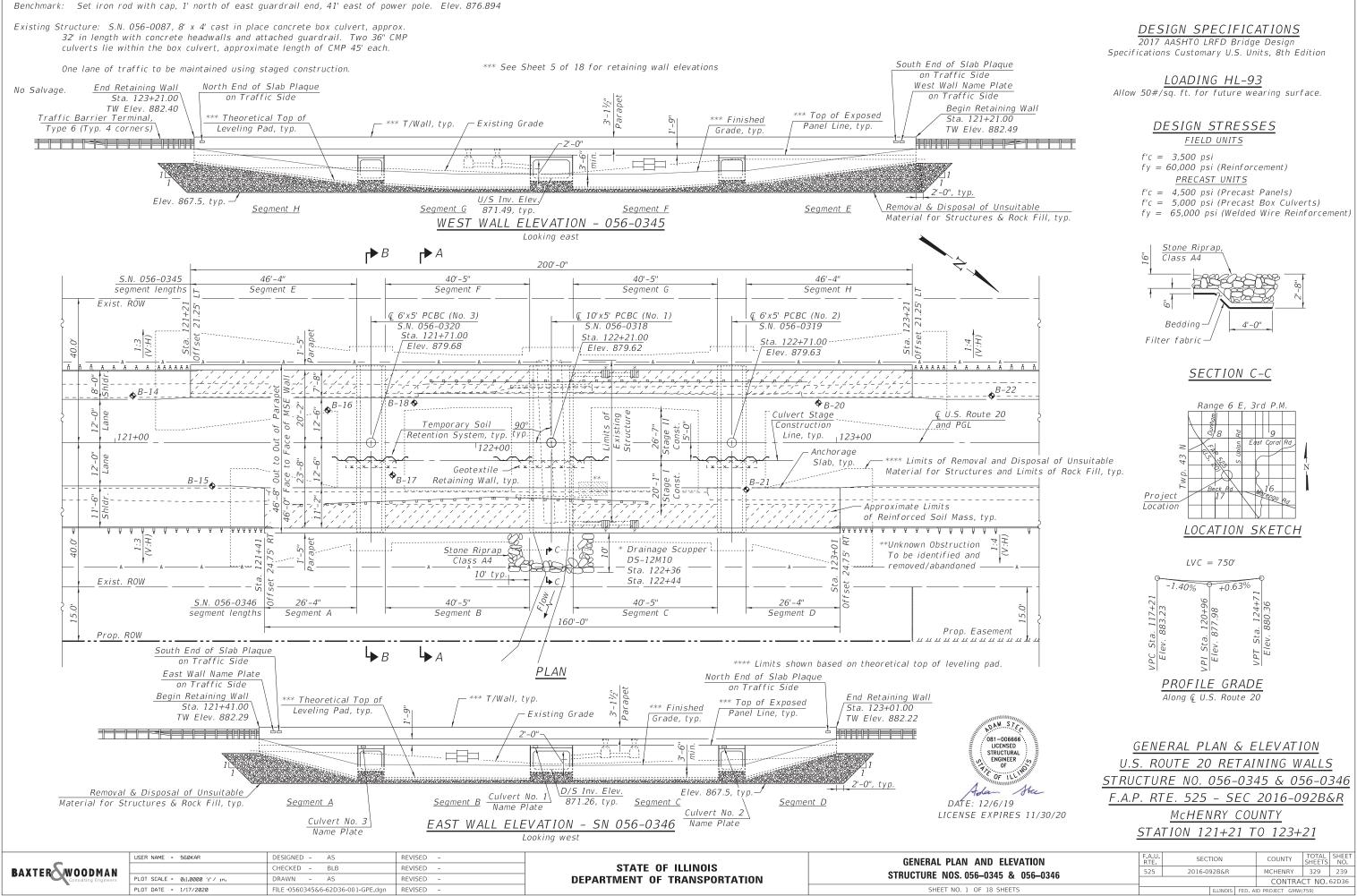
SCALE: N.T.S. SHEET OF SHEETS STA

.	TO STA.

ILLINOIS FED. AID PROJEC

CONTRACT NO. 62D36 D. AID PROJECT GMW(759)





GENERAL NOTES

Reinforcement bars designated (E) shall be epoxy coated. A cantilevered sheet piling design does not appear feasible and additional members or other retention systems may be necessary. The Contractor shall submit a temporary soil retention system design including plan details and calculations for review and acceptance by the Engineer.

INDEX OF SHEETS

- General Plan and Elevation 1
- General Data 2.
- 3-4. Stage Construction Details
- 5-6. Retaining Wall Details
- West Anchorage Slab Details 7. 8.
- East Anchorage Slab Details Concrete Parapet Slipforming Option
- 9. 10. Drainage Scupper, DS-12M10
- 11.
- Culvert No. 1 General Plan and Elevation 12. Culvert No. 1 End Section Details
- 13. Culverts No. 2 & 3 General Plan and Elevation
- 14. Culverts No. 2 & 3 End Section Details
- 15–18. Boring Logs

CT 47101 101 10

CULVERT NO. 1 NAME PLATE

See Std. 515001

ж

	STATION 121+21		STATION 121+41	
	BUILT 201_ BY		BUILT 201_ BY	
	STATE OF ILLINOIS		STATE OF ILLINOIS	ANCHORAGE :
	F.A.P. RTE. 525		F.A.P. RTE. 525	DO NOT OF
	SEC. 2016-092B&R		SEC. 2016-092B&R	SOUTH END
	LOADING HL-93		LOADING HL-93	
	STRUCTURE NO. 056-0345		STRUCTURE NO. 056-0346	
WE	ST WALL NAME PLAT	TF FA	ST WALL NAME PLAT	H END OF
<u></u>	See Std. 515001		See Std. 515001	 . 515001 (Paid
				(Typ. fo
	STATION 122+21		STATION 122+71	STATION
	BUILT 201_ BY		BUILT 201_ BY	BUILT 20
	STATE OF ILLINOIS		STATE OF ILLINOIS	STATE OF
	F.A.P. RTE. 525		F.A.P. RTE. 525	F.A.P. RT
	SEC. 2016-092B&R		SEC. 2016-092B&R	SEC. 2016-
	LOADING HL-93		LOADING HL-93	LOADING
	STRUCTURE NO. 056-0318		STRUCTURE NO. 056-0319	STRUCTURE N

STRUCTURE NO. 056-0319 CULVERT NO. 2 NAME PLATE See Std. 515001

USER NAME = 420as DESIGNED - AS BAXTER CHECKED - BLB PLOT SCALE = 0:2.0000 ':" / 10. DRAWN - AS

REVISED -STATE OF ILLINOIS REVISED -REVISED -**DEPARTMENT OF TRANSPORTATION** PLOT DATE = 3/19/2020 FILE -0560345&6-62D36-002-GENNOTE.ogrREVISED -

ITEM	UNIT	TOTAL
Porous Granular Embankment	Cu Yd	86
Stone Riprap, Class A4	Sq Yd	36
Filter Fabric	Sq Yd	36
Removal of Existing Structures	Each	1
Structure Excavation	Cu Yd	871
Removal and Disposal of Unsuitable	Cu Yd	970
Material for Structures		
Concrete Superstructure	Cu Yd	229.9
Protective Coat	Sq Yd	534
Reinforcement Bars, Epoxy Coated	Pound	34,800
Name Plates	Each	9
Temporary Soil Retention System	Sq Ft	717
Mechanically Stabilized Earth	Sa Ft	2,051
Retaining Walls	Synt	2,051
Geotextile Retaining Walls	Sq Ft	56
Box Culvert End Sections, Culvert No. 1	Each	2
Box Culvert End Sections, Culvert No. 2	Each	2
Box Culvert End Sections, Culvert No. 3	Each	2
Precast Concrete Box Culverts 6'x5'	Foot	80
Precast Concrete Box Culverts 10'x5'	Foot	40
Geocomposite Wall Drain	Sq Yd	157
Membrane Waterproofing System for	Sa Yd	157
Buried Structures	Jy Iu	1.57
Drainage Scuppers, DS-12M10	Each	4
Rock Fill	Cu Yd	970

TOTAL BILL OF MATERIAL

* Quantities for Removal and Disposal of Unsuitable Material for Structures and Rock Fill at MSE retaining walls are calculated based on theoretical top of leveling pad elevations. Actual quantities will be determined in the field based on top of leveling pad elevations in the approved shop drawings.

SLAB AREA OPEN CUT ND OF SLAB

ANCHORAGE SLAB AREA DO NOT OPEN CUT NORTH END OF SLAB

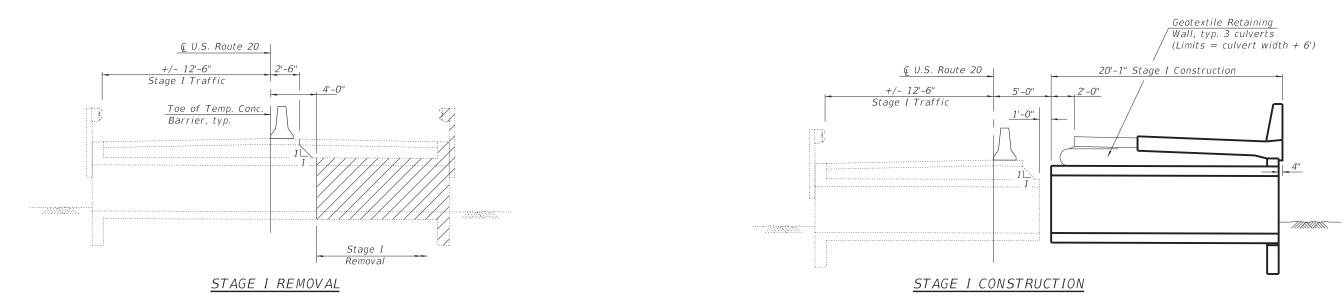
SLAB PLAQUE d for as Name Plate) for 2)

121+71 201_ BY ILLINOIS RTE. 525 16-092B&R NG HL-93 STRUCTURE NO. 056-0320

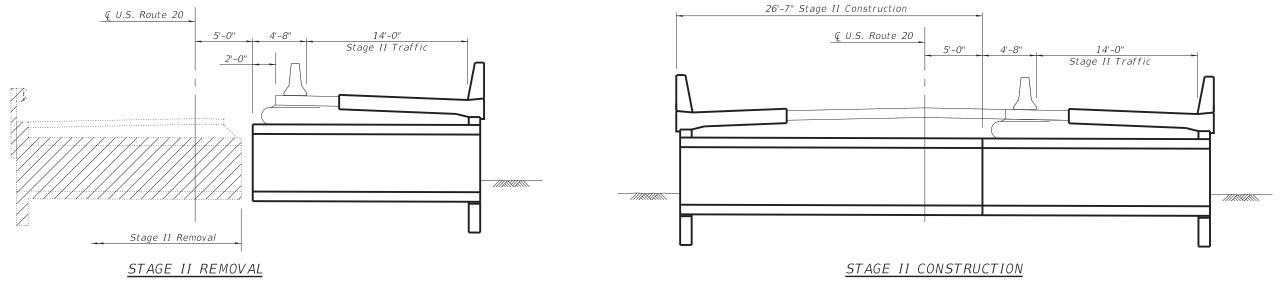
CULVERT NO. 3 NAME PLATE See Std. 515001

GENERAL DATA	F.A.U. RTE	U. SECTION		COUNTY	TOTAL SHEETS	
STRUCTURE NOS. 056-0345 & 056-0346	525 2016-092B&R			MCHENRY	329	240
				CONTRA	CT NO.	62D36
SHEET NO. 2 OF 18 SHEETS		ILLINOIS	FED. A	ID PROJECT GMW	(759)	

NORTH END OF SLAB PLAQUE See Std. 515001 (Paid for as Name Plate) (Typ. for 2)

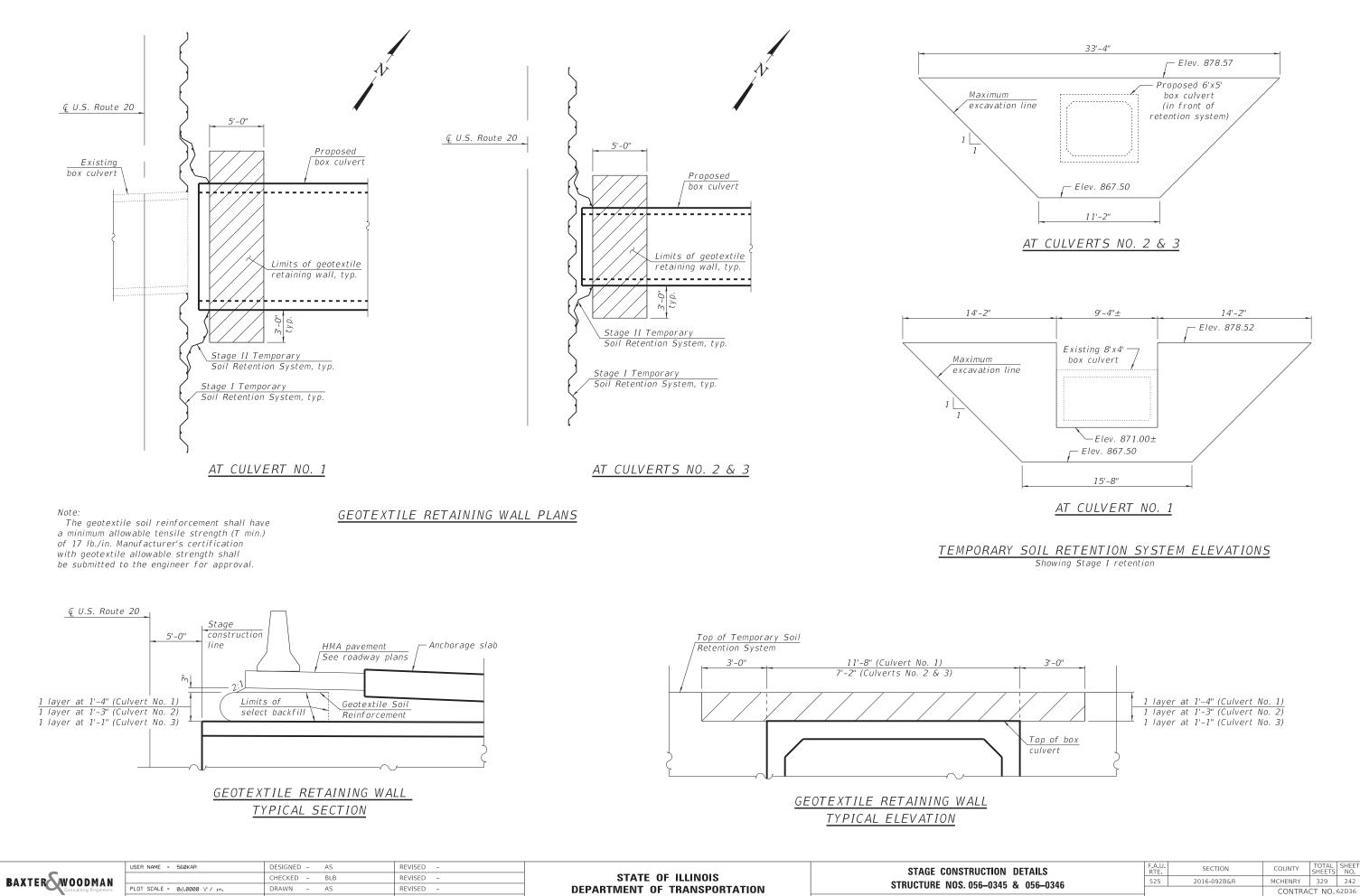


Center culvert shown, outside culverts similar except no existing structure



STAGE CONSTRUCTION DETAILS Looking north

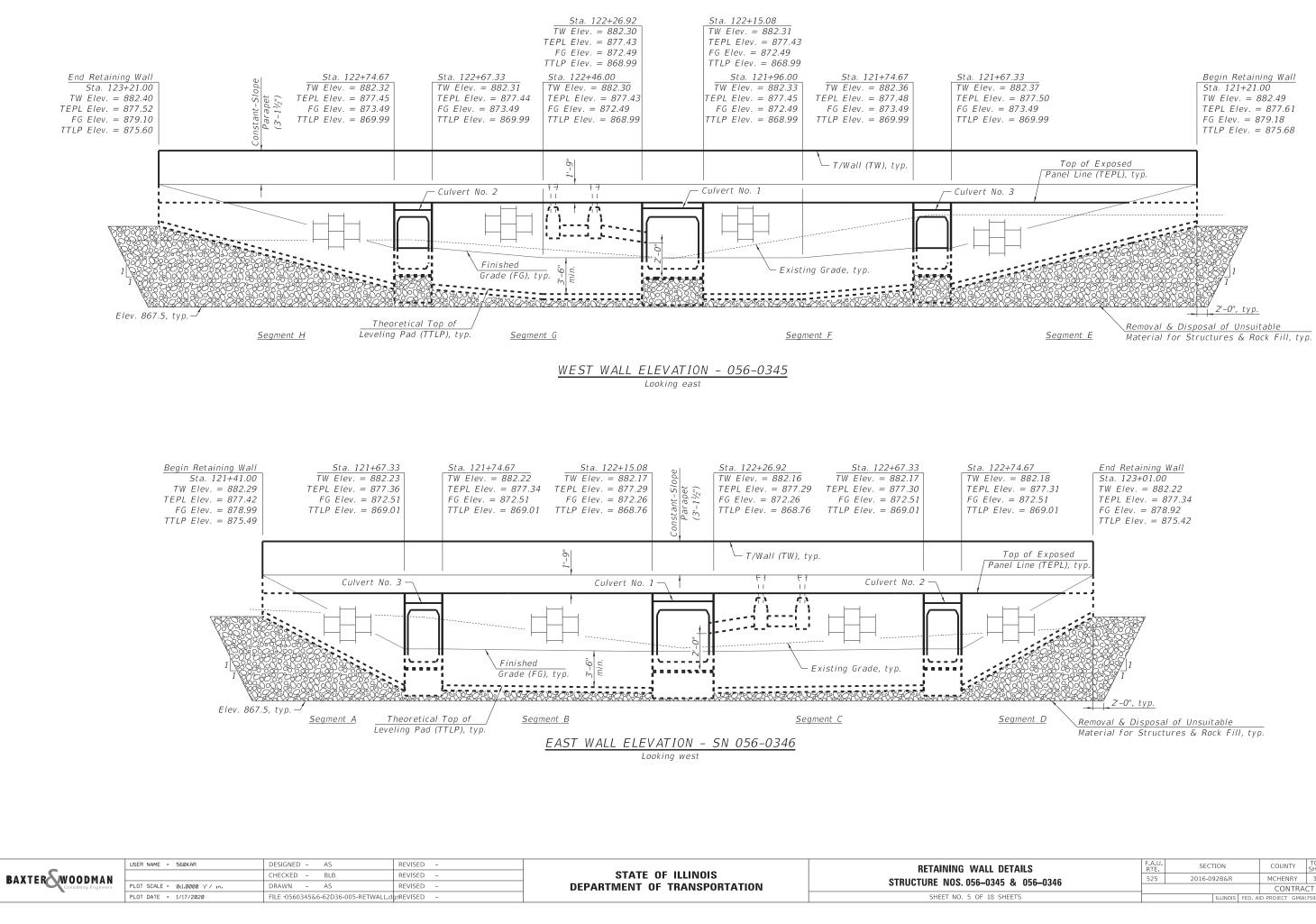
USER NAME = 560KAR	DESIGNED - AS	REVISED -		STAGE CONSTRUCTION DETAILS	F.A.U. RTE	SECTION	COUNTY TOTAL SHEET SHEETS NO.
	CHECKED - BLB	REVISED -	STATE OF ILLINOIS DEPARTMENT OF TRANSPORTATION		525	2016-092B&R	MCHENRY 329 241
PLOT SCALE = 0:1.0000 ':" / in. PLOT DATE = 1/17/2020	DRAWN - AS FILE -0560345&6-62D36-003-STAGI	REVISED - NG.denREVISED -		SHEET NO. 3 OF 18 SHEETS		ILLINOIS FED.	CONTRACT NO. 62D36
	USER NAME = 560KAR PLOT SCALE = 0:1.0000 ':' / 10. PLOT DATE = 1/17/2020			CHECKED - BLB REVISED - STATE OF ILLINOIS	CHECKED - BLB REVISED - STATE OF ILLINOIS STAGE CONSTRUCTION DETAILS	CHECKED - BLB REVISED - STATE OF ILLINOIS STATE OF ALLOS OF	CHECKED - BLB REVISED - STATE OF ILLINOIS STATE OF ILLINOIS STAGE CONSTRUCTION DETAILS RTE. SECTION



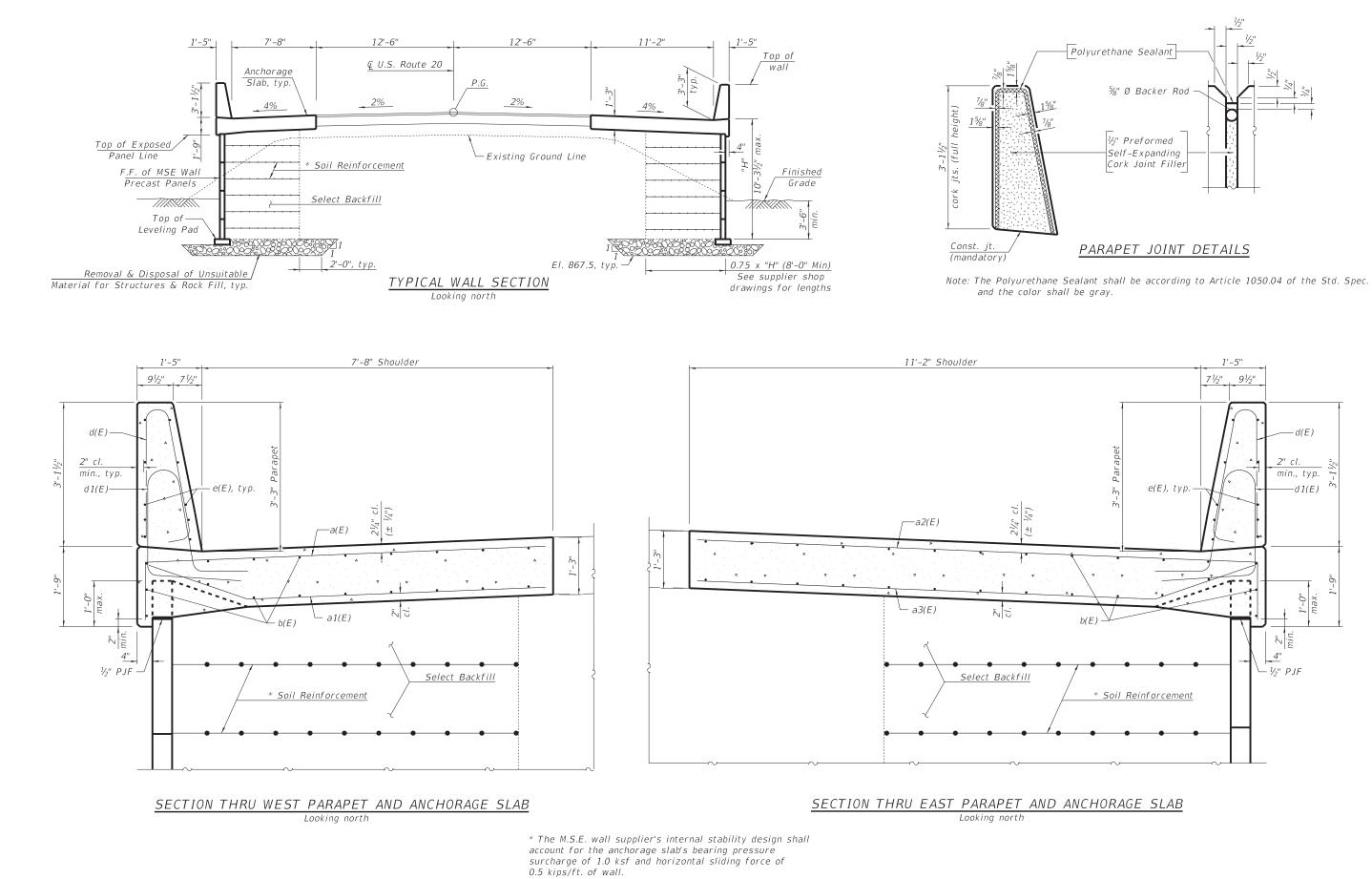
FILE -0560345&6-62D36-004-STAGING.donREVISED

PLOT DATE = 1/17/2020

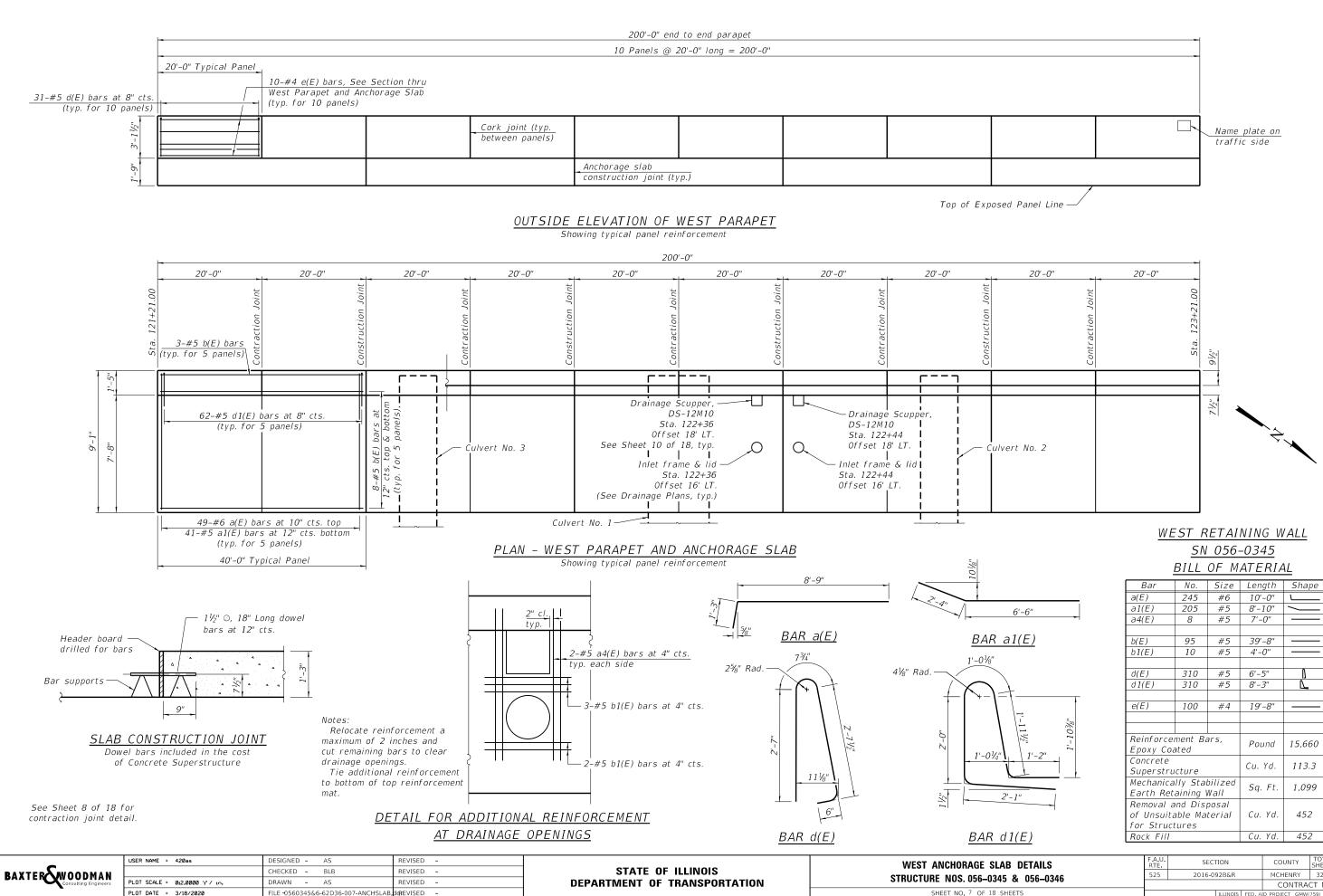
SHEET NO. 4 OF 18 SHEETS



LL DETAILS		SECT	SECTION		COUNT		TOTAL SHEETS	SHEET NO.
0345 & 056-0346	525	525 2016-092B&R			MCHENR	Y.	329	243
0345 & 030-0340					CONT	RAC	CT NO.	52D36
18 SHEETS			ILLINOIS	FED. AI	D PROJECT (GMW(7	759)	



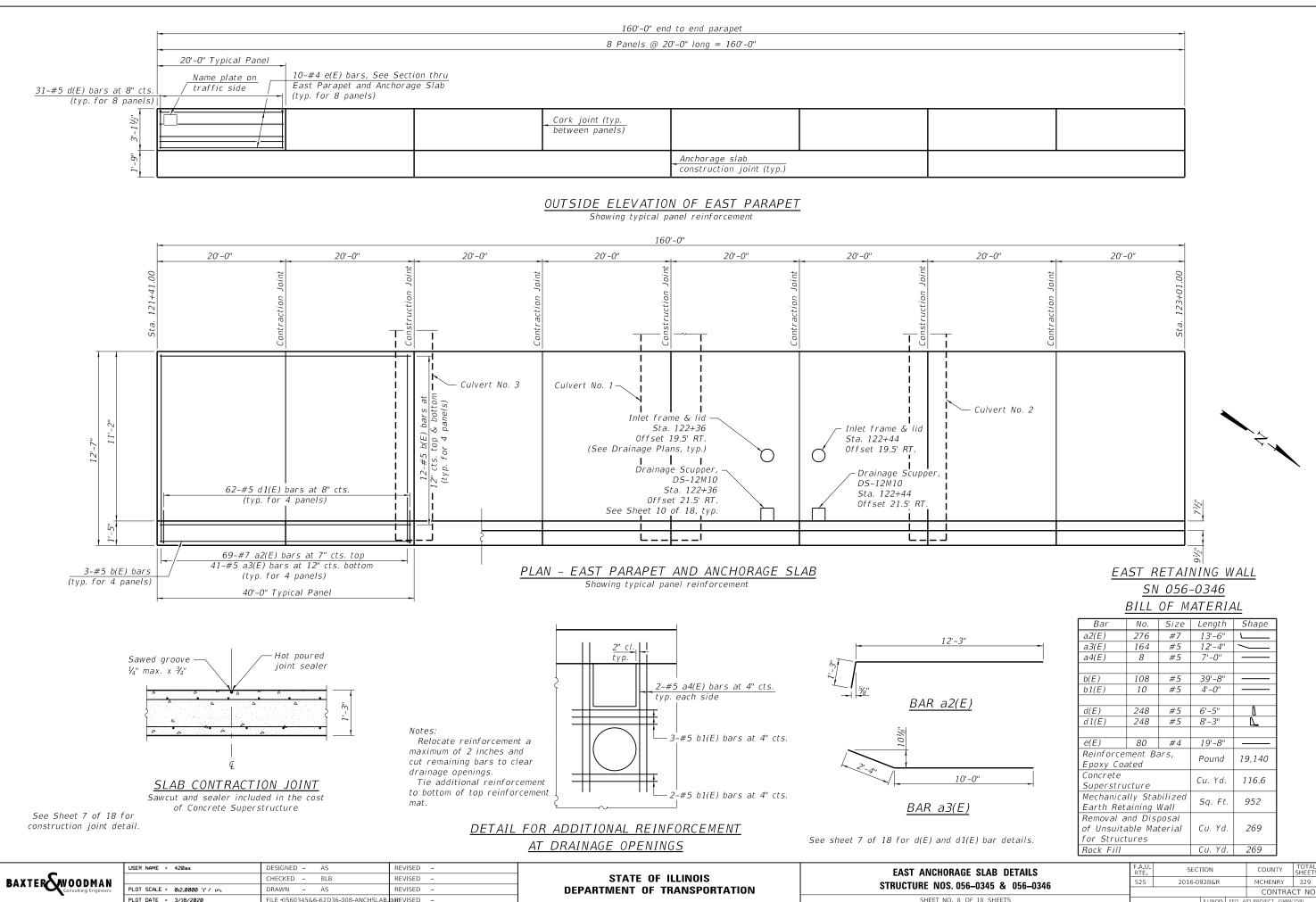
	USER NAME = 560KAR	DESIGNED – AS	REVISED -		RETAINING WALL DETAILS	F.A.U.	SECTION	COUNTY TOTAL SHEET
BAXTER		CHECKED - BLB	REVISED -	STATE OF ILLINOIS		525	2016-092B&R	MCHENRY 329 244
Consulting Engineers	PLOT SCALE = 0:1.0000 ':" / in.	DRAWN - AS	REVISED -	DEPARTMENT OF TRANSPORTATION	STRUCTURE NOS. 056–0345 & 056–0346			CONTRACT NO. 62D36
	PLOT DATE = 1/17/2020	FILE -0560345&6-62D36-006-RETWALL.d	prREVISED –		SHEET NO. 6 OF 18 SHEETS		ILLINOIS FED. A	ID PROJECT GMW(759)



WEST RETAINING WALL
SN 056-0345

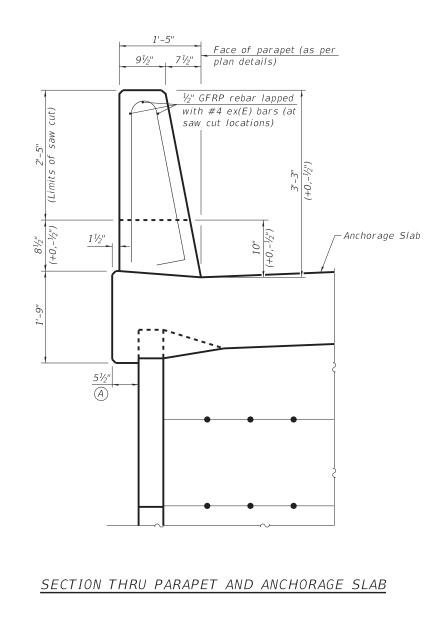
DILL OF MATERIAL										
Bar	No.	Size	Length	Shape						
a(E)	245	#6	10'-0''	<u> </u>						
a1(E)	205	#5	8'-10"	/						
a4(E)	8	#5	7'-0"							
b(E)	95	#5	39'-8''	<u> </u>						
b1(E)	10	#5	4'-0''							
d(E)	310	#5	6'-5"	<u> </u>						
d1(E)	310	#5	8'-3''							
e(E)	100	#4	19'-8"							
Reinforce		ars,	Pound	15,660						
Epoxy Coa	ated									
Concrete			Cu. Yd.	113.3						
Superstru		6 11 /								
Mechanica	/		Sq. Ft.	1,099						
Earth Ret										
Removal a of Unsuita		Cu. Yd.	452							
for Struc		leridi	<i>cu. ru.</i>	+52						
Rock Fill	ures		Cu. Yd.	452						
NOCK I III				-152						

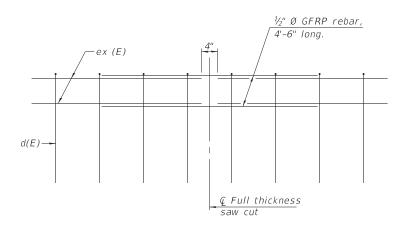
SLAB DETAILS)345 & 056–0346	F.A.U. RTE	SECT	SECTION			Υ	TOTAL SHEETS	SHEET NO.
	525	2016-092B&R			MCHENE	۲Y	329	245
J345 & U50-U340					CON	TRA	CT NO.	62D36
18 SHEETS			ILLINOIS	FED. A	ID PROJECT	GMW(759)	



SHEET NO. 8 OF 1

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SLAB DETAILS	F.A.U. RTE	SEC.	ΓION		COUNTY	TOTAL SHEETS	SHEET NO.
)345 & 056-0346	525	2016-0	2016-092B&R			329	246
J343 & 030-0340					CONTRA	ACT NO.	62D36
18 SHEETS			ILLINOIS	FED. A	D PROJECT GMV	/(759)	





GFRP REBAR STIFFENING DETAIL

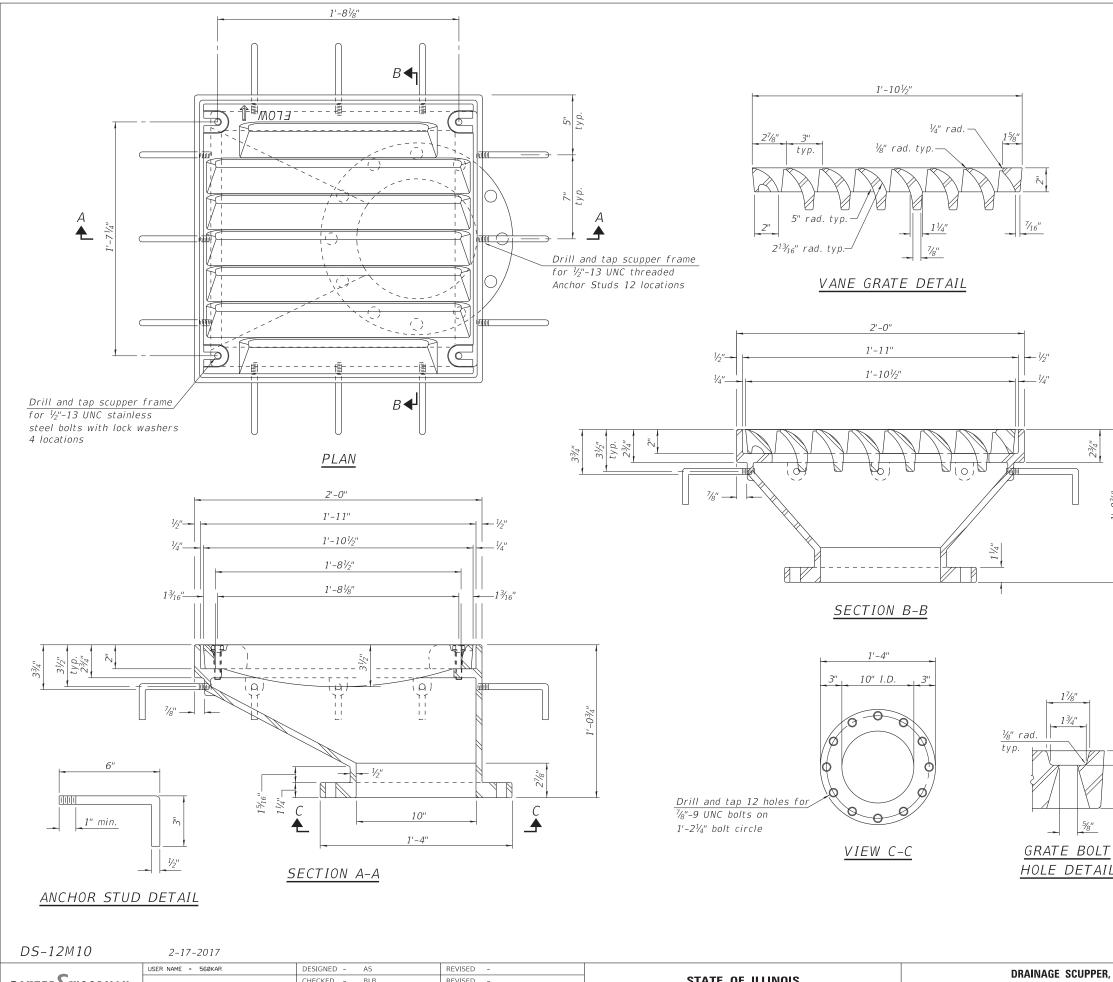
(Place as shown in parapet section at each parapet joint location.)

	USER NAME = 560KAR	DESIGNED – AS	REVISED -		CONCRETE PARAPET SLIPFORMING OPTION	F.A.U. BTE	SECTION	COUNTY TOTAL SHEET
BAXTER	Δ N	CHECKED - BLB	REVISED -	STATE OF ILLINOIS		525	2016-092B&R	MCHENRY 329 247
Consulting E	ineers PLOT SCALE = 0:1.0000 ':" / 10.	DRAWN – AS	REVISED -	DEPARTMENT OF TRANSPORTATION	STRUCTURE NOS. 056–0345 & 056–0346	I		CONTRACT NO. 62D36
200	PLOT DATE = 1/17/2020	FILE -0560345&6-62D36-009-SLIPFORM.	dgiREVISED -		SHEET NO. 9 OF 18 SHEETS		ILLINOIS FED. AI	ID PROJECT GMW(759)

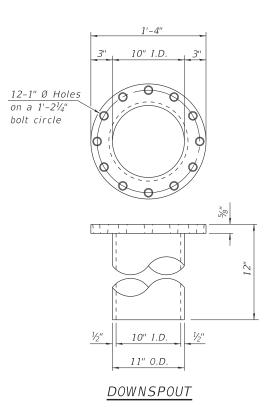
GENERAL NOTES

All dimensions shall remain the same as shown on retaining wall and anchorage slab details, except dimension A which is to be revised as shown. Additional concrete needed to revise dimension A = 0.0081 cu. yds./ft.

Replace all cork joint filler locations with a full thickness saw cut.



	USER NAME = 560KAR	DESIGNED - AS	REVISED -		DRAINAGE SCUPPER, DS-12M10	F.A.U. BTE	SECTION	COUNTY	TOTAL	SHEET NO.	
		CHECKED - BLB	REVISED -	STATE OF ILLINOIS	STRUCTURE NOS. 056-0345 & 056-0346	525	2016-092B&R	MCHENRY	329	248	
	PLOT SCALE = 0:1.0000 ':" / in. PLOT DATE = 1/17/2020	DRAWN - AS FILE -0560345&6-62D36-010-SCUPP	REVISED -	DEPARTMENT OF TRANSPORTATION	SHEET NO 10 OF 18 SHEETS				CT NO. 6	2D36	
			1122 000001040 02000 010 00011	entophiletioeo				IEEINOIS TED.	AID TROJECT GHIN	1351	



Notes:

All cast iron parts shall be gray iron conforming to the requirements of AASHTO M 105, Class 35B.

Bolts, anchor studs, washers and nuts shall conform to the requirements of ASTM A 307 and shall be galvanized according to AASHTO M 232.

All castings shall conform to the requirements of AASHTO М 306.

Downspouts located on the exterior side of a painted steel fascia beam shall be painted with the finish coat specified for the exterior side of the fascia beam.

As an alternate, bolts, anchor studs, washers and nuts may be stainless steel according to Article 1006.29(d) of the Standard Specifications.

Structural steel weldments of equal sections and of the same configuration may be substituted for the cast iron scupper frame. Fillet or full penetration welds shall be used for the weldments. Details shall be submitted to the Engineer for approval. Structural steel weldments shall not be substituted for the cast iron scupper grate. Structural steel frames and downspouts shall be galvanized according to AASHTO M111. The Contractor shall take appropriate measures to assure

that Protective Coat is not applied to the scupper.

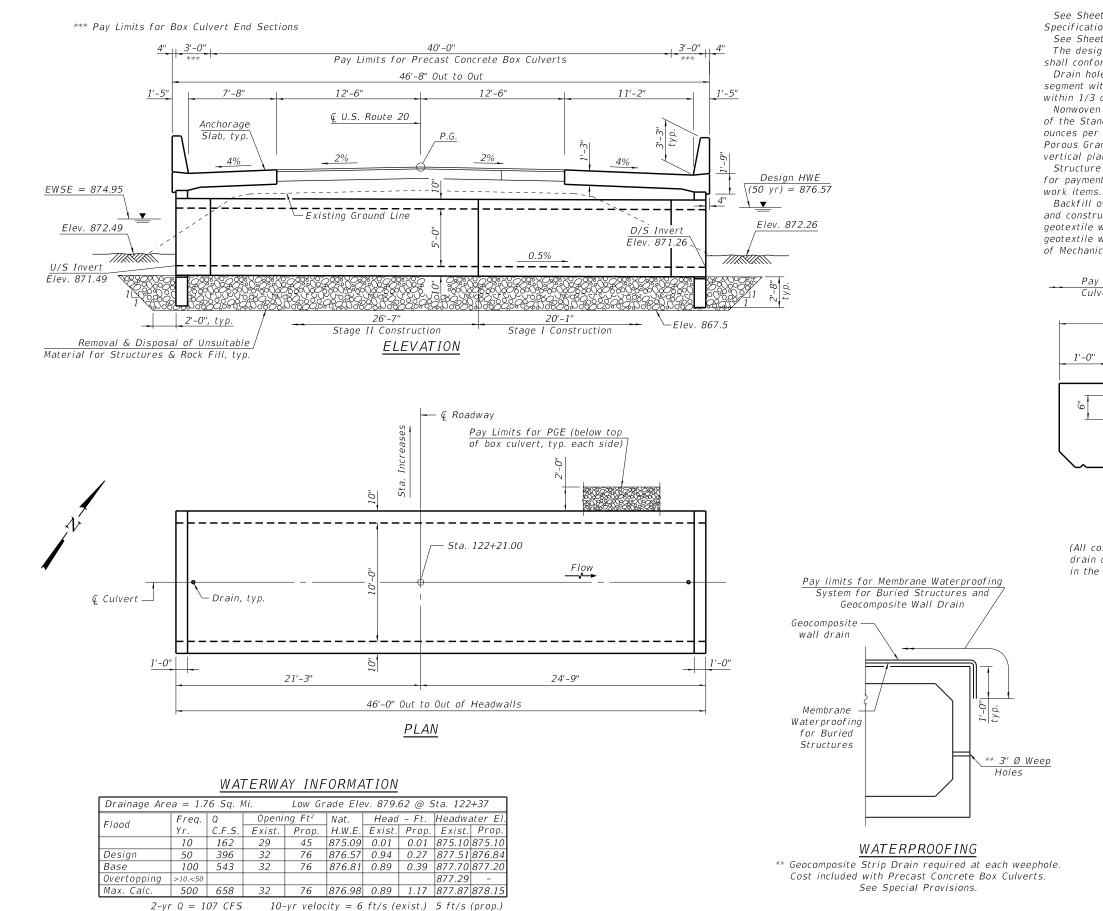
Cost of the Grate, Frame, Downspout, Anchor Studs, Bolts, Washers and Nuts including complete installation of the scupper shall be paid for at the contract unit price each for Drainage Scupper, DS-12M10.

Alternate fiberglass downspout conforming to ASTM D 2996 with a short-time rupture strength hoop tensile stress of 30,000 psi min. may be used in lieu of the cast iron or steel equivalent.

I	

BILL OF MATERIAL

ITEM	UNIT	QUANTITY
Drainage Scupper, DS-12M10	Each	4



USER NAME = 420as DESIGNED - AS REVISED -CULVERT NO. 1 GENERAL PLA STATE OF ILLINOIS BAXTER CHECKED - BLB REVISED -STRUCTURE NO. PLOT SCALE = 0:2.0000 ': / in. DRAWN -AS REVISED -**DEPARTMENT OF TRANSPORTATION** FILE -0560345&6-62D36-011-CULVERT.denREVISED -SHEET NO.11 OF 18 PLOT DATE = 3/19/2020

GENERAL NOTES

See Sheet 1 of 18 for Benchmark and Existing Structure information, Design Specifications and Stresses, Location Sketch, and Profile Grade. See Sheet 2 of 18 for Total Bill of Material.

The design fill height for this box is 2 ft. The precast box culvert sections shall conform to the requirements of ASTM C 1577.

Drain holes shall be provided on exterior culvert walls for each precast box segment with a clear rise greater than 3 ft. The drain hole shall be located within 1/3 of the clear rise of the box culvert and shall not intercept the haunch. Nonwoven geotextile fabric shall conform to the requirements of Art. 1080.01 of the Standard Specifications. The minimum weight of the fabric shall be 6 ounces per square yard. Precast concrete box culvert shall be backfilled with Porous Granular Embankment below the top of the box culvert extending to a vertical plane 2 ft from the exterior sides of the culvert.

Structure Excavation for construction of Culvert No. 1 will not be measured for payment separately, but shall be included in the cost of the other related work items.

Backfill over culvert supporting the anchorage slabs shall be the same material and construction method as the Select Backfill for either the MSE walls or geotextile walls. Backfill material over the culvert and not included in the geotextile walls will not be measured for payment, but shall be included in the cost of Mechanically Stabilized Earth Retaining Walls.

Pay Limits for Box Culvert End Sections	Pay Limits for Precast Concrete Box Culverts
3'-0"	12" x 12" x 6" block of CA5, CA7, or CA11 coarse aggregate placed over drain opening. Block of aggregate shall be completely wrapped in nonwoven geotextile fabric.
	Provide a double layer of 12" x 12" nonwoven geotextile fabric centered over the drain hole. Perimeter of fabric shall be sealed to the concrete with mastic.
~	<i>3" Ø PVC drain cast with the concrete (Adjust location to clear reinforcement)</i>
<u> </u>	re foam blockout around PVC drain emoved with formwork)

DRAIN DETAIL

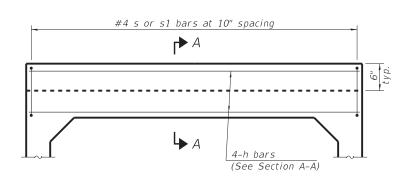
(All costs associated with furnishing and constructing the above drain detail will not be measured for payment but shall be included in the contract unit price for the associated work.)

CULVERT NO. 1 BILL OF MATERIAL

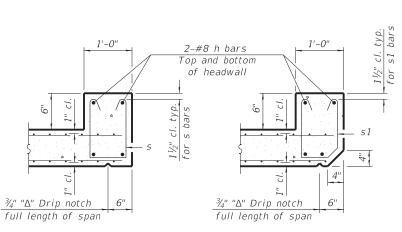
ITEM	UNIT	TOTAL
Removal of Existing Structures	Each	1
Box Culvert End Sections, Culvert No. 1	Each	2
Precast Concrete Box Culverts, 10' x 5'	Foot	40
Porous Granular Embankment	Cu. Yd.	30
Geocomposite Wall Drain	Sq. Yd.	67
Membrane Waterproofing for Buried Structures	Sq. Yd.	67
Removal and Disposal of Unsuitable Material for Structures	Cu. Yd.	95
Rock Fill	Cu. Yd.	95

<u>GENERAL PLAN AND ELEVATION</u> <u>US RTE. 20 OVER DITCH</u> <u>F.A.P. RTE. 525 - SEC. 2016-092B&R</u> <u>MCHENRY COUNTY</u> <u>STATION 122+21</u> <u>S.N. 056-0318</u>

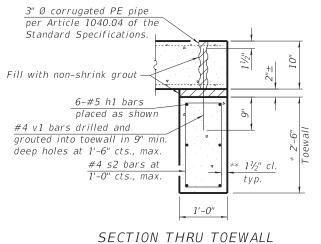
AN AND ELEVATION		SECT	SECTION		COUNTY		SHEET NO.	
056–0318	525	2016-092B&R			MCHENRY	329	249	
000-0318					CONTRACT NO. 62D3			
SHEETS			ILLINOIS	FED. A	ED. AID PROJECT GMW(759)			



HEADWALL ELEVATION (Allow sidewall reinforcement to extend into end of headwall.)



- SECTION A-A
- (Top slab at downstream end)
- SECTION A-A (Top slab at upstream end)



TOEWALL CONSTRUCTION SEQUENCE

- 1. Perform excavation and construct toewall.
- 2. Backfill according to the applicable paragraphs of Article 502.10 of the Standard Specifications and place bedding for precast box culvert end sections.
- 3. Set precast box culvert end section.
- 4. Drill and epoxy grout reinforcement in toewall in accordance with Section 584 of the Standard Specifications.
- 5. Pressure grout voids using non-shrink grout conforming to Section 1024 of the Standard Specifications.
- * The Contractor may furnish a precast or cast-in-place toewall. The Contractor shall be responsible for the strength and stability of the precast toewall during handling. Additional lifting points may be required depending upon the length of the toewall or the Contractor may need to modify the design of the toewall for the proposed handling the method.
- ** If soil conditions permit, the sides of the toewall may be poured directly against the soil. The clear cover on the sides of the toewall shall be increased to 3" by increasing the thickness of the toewall.

9"

BAR s

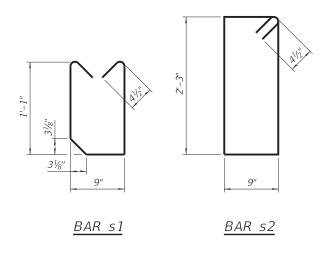
	USER NAME = 560KAR	DESIGNED - AS	REVISED -		CULVERT NO. 1 END SECTION DETAILS		SECTION	COUNTY TOTAL SHEET
		CHECKED - BLB	REVISED -	STATE OF ILLINOIS		525	2016-092B&R	MCHENRY 329 250
	PLOT SCALE = 0:1.0000 ':" / in.	DRAWN – AS	REVISED -	DEPARTMENT OF TRANSPORTATION	STRUCTURE NO. 056–0318			CONTRACT NO. 62D36
	PLOT DATE = 1/17/2020	FILE -0560345&6-62D36-012-CULVERT.d	anREVISED -		SHEET NO.12 OF 18 SHEETS		ILLINOIS FED. AID PROJECT GMW(759)	

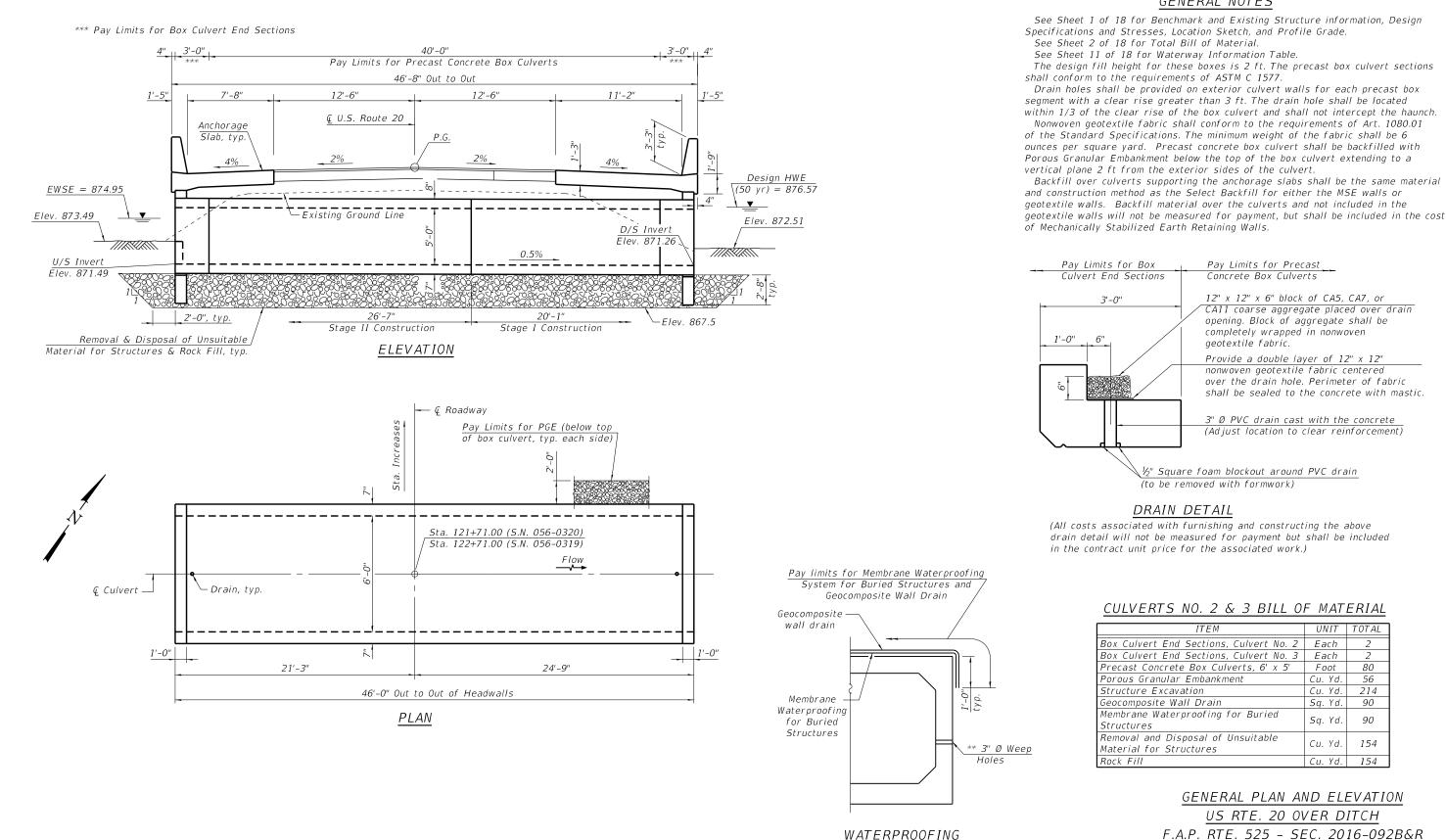
GENERAL NOTES

Box Culvert End Sections shall be constructed according to the requirements of Section 540 of the Standard Specifications except as modified herein. End sections will be paid for at the contract unit price per each for Box Culvert End Sections.

The Contractor may furnish the end section as a single precast concrete piece or construct the end section in the field using cast-in-place (CIP) construction. For CIP construction, the bottom slab thickness shall be increased by 2" and the clear cover to the bottom mat of reinforcement shall be increased to 3".

Box section dimensions, materials, and reinforcement details for Box Culvert End Sections shall be according to the requirements for ASTM C 1577 as required for the design of the portion of the culvert within the limits of Precast Concrete Box Culverts except as modified herein. All costs associated with furnishing and installing or constructing the toewall will not be measured for payment but shall be included in the unit price for Box Culvert End Sections of the culvert number specified. Shop drawings that detail reinforcement layout for the Box Culvert End Sections shall be provided to the Engineer for review and approval. Reinforcement bars not detailed herein shall be detailed with a clear distance at the end of the reinforcement not less than $\frac{1}{2}$ " nor more than 2". For the precast option, it shall be the Contractor's responsibility for determining a method of handling and a construction procedure shall be included on the shop drawings. The Contractor shall determine and detail in the shop drawings any necessary strengthening or stiffening provisions necessary to handle the precast segment. Any required modifications shall be at no extra charge.





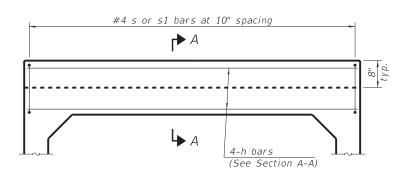
** Geocomposite Strip Drain required at each weephole. Cost included with Precast Concrete Box Culverts. See Special Provisions.

	USER NAME = 420as	DESIGNED - AS	REVISED -		CULVERTS NO. 2 & 3 GENERAL PLAN AND ELEVATION	F.A.U. RTE	SECTION	COUNTY TOTAL SHEET SHEETS NO.
BAXTER		CHECKED - BLB	REVISED -	STATE OF ILLINOIS	STRUCTURE NOS. 056–0319 & 056–0320	525	2016-092B&R	MCHENRY 329 251
Consulting Engineers	PLOT SCALE = 0:2.0000 ':" / 10.	DRAWN – AS	REVISED -	DEPARTMENT OF TRANSPORTATION				CONTRACT NO. 62D36
_	PLOT DATE = 3/19/2020	FILE -0560345&6-62D36-013-CULVERT.d	¢nREVISED -		SHEET NO.13 OF 18 SHEETS		ILLINOIS FED. 4	AID PROJECT GMW(759)

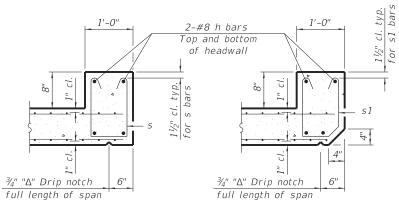
GENERAL NOTES

ITEM	UNIT	TOTAL
11 L 14	0111	TOTAL
Box Culvert End Sections, Culvert No. 2	Each	2
Box Culvert End Sections, Culvert No. 3	Each	2
Precast Concrete Box Culverts, 6' x 5'	Foot	80
Porous Granular Embankment	Cu. Yd.	56
Structure Excavation	Cu. Yd.	214
Geocomposite Wall Drain	Sq. Yd.	90
Membrane Waterproofing for Buried Structures	Sq. Yd.	90
Removal and Disposal of Unsuitable Material for Structures	Cu. Yd.	154
Rock Fill	Cu. Yd.	154

F.A.P. RTE. 525 - SEC. 2016-092B&R MCHENRY COUNTY STATION 121+71 & 122+71 S.N. 056-0319 & 056-0320



HEADWALL ELEVATION (Allow sidewall reinforcement to extend into end of headwall.)



SECTION A-A (Top slab at downstream end)

9"

BAR s

31/81

3½"

9'

BAR s1

- SECTION A-A
- (Top slab at upstream end)

9"

BAR s2



- 1. Perform excavation and construct toewall.
- 2. Backfill according to the applicable paragraphs of Article 502.10 of the Standard Specifications and place bedding for precast box culvert end sections.
- 3. Set precast box culvert end section.

3" Ø corrugated PE pipe

Standard Specifications.

Fill with non-shrink grout

#4 v1 bars drilled and

grouted into toewall in 9" min.

deep holes at 1'-6" cts., max.

per Article 1040.04 of the

6-#5 h1 bars

placed as shown

#4 s2 bars at

1'-0" cts., max.

- 4. Drill and epoxy grout reinforcement in toewall in accordance with Section 584 of the Standard Specifications.
- 5. Pressure grout voids using non-shrink grout conforming to Section 1024 of the Standard Specifications.
- 6. Construct cast-in-place weir wall (upstream end only).
- * The Contractor may furnish a precast or cast-in-place toewall. The Contractor shall be responsible for the strength and stability of the precast toewall during handling. Additional lifting points may be required depending upon the length of the toewall or the Contractor may need to modify the design of the toewall for the proposed handling the method.
- ** If soil conditions permit, the sides of the toewall may be poured directly against the soil. The clear cover on the sides of the toewall shall be increased to 3" by increasing the thickness of the toewall.

3" Ø corrugated PE pipe per Article 1040.04 of the Standard Specifications.

Fill with non-shrink grout

#4 v1 bars drilled and grouted into toewall in 9" min. deep holes at 1'-0" cts., max.

184-									
BAXTER Consulting Engineers	USER NAME = 560KAR	DESIGNED - AS	REVISED -		CULVERTS NO.2 & 3 END SECTION DETAILS		SECTION	COUNTY TOTAL SHEET	
	AXTER		CHECKED - BLB	REVISED -	STATE OF ILLINOIS		525	2016-092B&R	MCHENRY 329 252
	Consulting Engineers	PLOT SCALE = 0:1.0000 ':" / in.	DRAWN – AS	REVISED -	DEPARTMENT OF TRANSPORTATION	STRUCTURE NOS. 056–0319 & 056–0320			CONTRACT NO. 62D36
	_	PLOT DATE = 1/17/2020	FILE -0560345&6-62D36-014-CULVERT.d	gnREVISED -		SHEET NO.14 OF 18 SHEETS	ILLINOIS FED. AID PROJECT GMW(759)		

1'-0''

SECTION THRU DOWNSTREAM TOEWALL

1½" cl.

typ.

number specified.

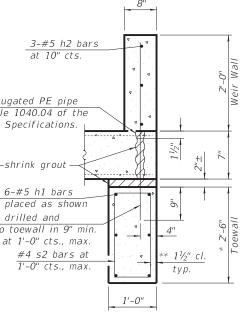
GENERAL NOTES

Box Culvert End Sections shall be constructed according to the requirements of Section 540 of the Standard Specifications except as modified herein. End sections will be paid for at the contract unit price per each for Box Culvert End Sections.

The Contractor may furnish the end section as a single precast concrete piece or construct the end section in the field using cast-in-place (CIP) construction. For CIP construction, the bottom slab thickness shall be increased by 2" and the clear cover to the bottom mat of reinforcement shall be increased to 3".

Box section dimensions, materials, and reinforcement details for Box Culvert End Sections shall be according to the requirements for ASTM C 1577 as required for the design of the portion of the culvert within the limits of Precast Concrete Box Culverts except as modified herein. All costs associated with furnishing and installing or constructing the toewall and weir wall will not be measured for payment but shall be included in the unit price for Box Culvert End Sections of the culvert

Shop drawings that detail reinforcement layout for the Box Culvert End Sections shall be provided to the Engineer for review and approval. Reinforcement bars not detailed herein shall be detailed with a clear distance at the end of the reinforcement not less than $\frac{1}{2}$ " nor more than 2". For the precast option, it shall be the Contractor's responsibility for determining a method of handling and a construction procedure shall be included on the shop drawings. The Contractor shall determine and detail in the shop drawings any necessary strengthening or stiffening provisions necessary to handle the precast segment. Any required modifications shall be at no extra charge.



SECTION THRU UPSTREAM TOEWALL

SOIL BORING LOG

Page 1 of 1

Date 5/8/17



STRUCT. NO.

Station

Station

Offset

ASPHALT

topsoil, moist

BORING NO.

SECTION D-91-476-16

COUNTY MCHENRY

Medium Dense, black (10YR 2/1)

(sub-base), moist Medium Dense, brown (10YR 5/3)

CRUSHED AGGREGATE FILL

grained, pieces of concrete and

rock, moist Medium Stiff, black (10YR 2/1)

gravel, orgainic soil or remnant

Very Soft, black (10YR 2/1) and

greenish gray (GLEY 6/1) CLAY

(C), pieces of wood, moist to wet,

Stiff to Medium Stiff, pale brown

(10YR 6/3) SANDY CLAY (SaC),

brown (10YR 5/3) LOAM (L), trace

Medium Dense, brown (10YR 5/3) SAND (S), medium to fine

Medium Dense to Very Dense,

yellowish red (5YR 4/6) SILTY

to fine gravel, trace fine sand,

LOAM (SiL), trace to little medium

brown (10YR 5/3) to 21.0',

fine gravel, some sand, moist AASHTC Classification A-4(1)

grained, saturated

saturated

trace to little gravel, moist

CLAY LOAM (CL), trace fine

SAND FILL, medium to fine

056-0318.056-0319

& 056-0320

B-15

774 + 69

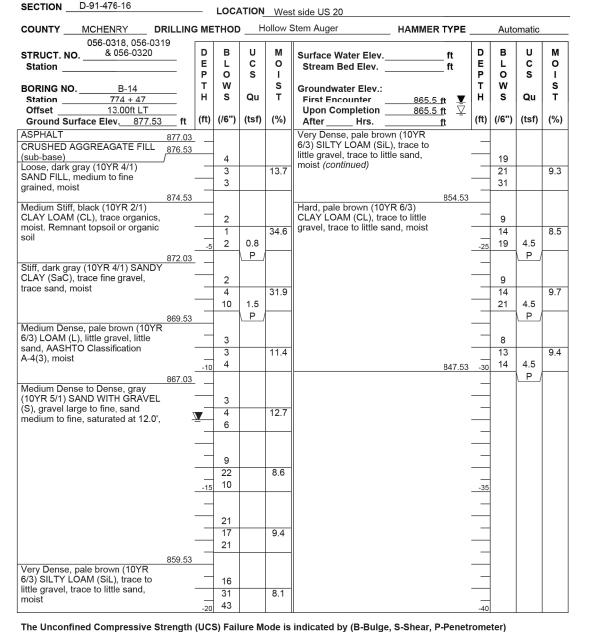
12.00ft RT

Ground Surface Elev. 877.26 ft (ft) (/6") (tsf)

600 Territorial Drive, Suite G Bolingbrook, IL 60440 www.interraservices.com

LOCATION East side US 20

ROUTE FAP 525 (US Route 20) ___ DESCRIPTION ___ US 20 Culvert/proposed Retaining Wall LOGGED BY Eric Slusser



The Unconfined Compressive Strength (UCS) Failure Mode is indicated by (B-Bulge, S-Shear, P-Penetrometer)

BBS, from 137 (Rev. 8-99)

AXTER	USER NAME = 560KAR	DESIGNED – AS	REVISED -		BORING LOGS	F.A.U. BTE	SECTION	COUNTY TOTAL SHEET
		CHECKED - BLB	REVISED -	STATE OF ILLINOIS	STRUCTURE NOS. 056–0345 & 056–0346	525	2016-092B&R	MCHENRY 329 253
Consulting Engineers	PLOT SCALE = 1.0000 '/ 10.	DRAWN – AS	REVISED -	DEPARTMENT OF TRANSPORTATION	STRUCTURE NOS. 050-0545 & 050-0540			CONTRACT NO. 62D36
	PLOT DATE = 1/17/2020	FILE -0560345&6-62D36-015-BLOG.dgn	REVISED -		SHEET NO. 15 OF 18 SHEETS		ILLINOIS FED.	AID PROJECT GMW(759)

SOIL BORING LOG

Page <u>1</u> of <u>1</u>

Date 5/10/17

ROUTE FAP 525 (US Route 20) DESCRIPTION US 20 Culvert/proposed Retaining Wall

LOGGED BY Eric Slusser

	_	LOCA	ATION	East	side US 20					
-	S ME	тнор	н <u>н</u>		Stem Auger HAMMER	TYPE		Auto	matic	
0-0319 20	D E P T H	B L O W S	U C S Qu	M O I S T	Surface Water Elev. Stream Bed Elev. Groundwater Elev.: First Encounter 868.8	_ft ft ⊻	D E P T H	B L O W S	U C S Qu	M O I S T
T 7.26ft	(ft)	(/6")	(tsf)	(%)	Upon Completion 868.8	ft ⊻ ft	(ft)	(/6")	(tsf)	(%)
876.59 2/1) 875.93		9			Medium Dense to Very Dense, brown (10YR 5/3) to 21.0', yellowish red (5YR 4/6) SILTY			19		
5/3)	. <u> </u>	9 5 5		5.7	LOAM (SiL), trace to little medium to fine gravel, trace fine sand, saturated <i>(continued)</i>		_	31 49		8.2
d <u>874.26</u>	_	2			Hard, brown (10YR 5/3) CLAY LOAM (CL), trace to little medium	854.26	_	12		
) t	-5	3 2 2	0.5	25.3	to fine gravel, trace fine sand, moist		-25	13 18 31	4.5	9.1
871.76 d	-		<u>P</u>		Medium Dense, brown (10YR 5/3) SILTY LOAM (SiL), trace to little	851.76		0	<u>P</u>	
vet,		1 1 2	0.3	53.4	medium to fine gravel, trace fine sand, moist		_	8 10 13		10.1
869.26 (n 5			<u>P</u>							
C), [–]	-10	3 3 3	1.3	12.0		847.26	-30	5 10 13		10.1
	-10		<u>P</u>			047.20	-50			
00470		2 2 3	0.8	12.7						
864.76 race			0.0 \/	12.5						
862.76		6								
5/3) 861.26	-15	6 6 7		12.0			-35			
,		5 8		8.9			_			
ium	_	7								
		10 39		8.6						
	-20	43					-40			

BBS, from 137 (Rev. 8-99)

SOIL BORING LOG

HAMMER TYPE

ft

ft

<u>868.3 ft</u> ⊻ H

855.01

<u>868.3 f</u>t ⊻

__ft

ROUTE FAP 525 (US Route 20) DESCRIPTION US 20 Culvert/proposed Retaining Wall LOGGED BY Eric Slusser

— LOCATION West side US 20

M

U C S

COUNTY MCHENRY DRILLING METHOD Hollow Stem Auger

D в

056-0318, 056-0319

& 056-0320

Page <u>1</u> of <u>1</u>

Date 5/8/17

Automatic

S Qu

(ft) (/6") (tsf) (%)

9

11

11

12

13

5

8 8 4.5 Ρ

5

6

4.5 9

Р

_

____ _____ 15 4.5 P

-25

D в

EP L O W

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S

т

9.3

9.1

8.1

10.9

C S



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ROUTE FAP 525 (US Route 20) DE	SCR	IPTIO	N	US 20	Culvert/proposed Retaining Wall	LOG	GED B	r <u>Eric S</u>	Slusser
SECTION D-91-476-16	_	LOC		Eas	t side US 20				
COUNTY MCHENRY DRILLIN					Stem Auger HAMMER TYP	'Е	Aut	omatic	
056-0318, 056-0319 STRUCT. NO. <u>& 056-0320</u> Station	D E P	B L O	U C S	M O I	Surface Water Elev ft Stream Bed Elev ft	DEP	L	U C S	M O I
BORING NO. B-17 Station 775 + 19 Offset 9.00ft RT Ground Surface Elev. 877.17	T H (ft)	W S (/6")	Qu (tsf)	S T (%)	Groundwater Elev.: First Encounter 866.2 ft Upon Completion 866.2 ft After Hrs. ft	▼ T ▼ H ☑ (ff	S	Qu (tsf)	S Т (%)
ASPHALT 876.34 Medium Dense, black (10YR 2/1)		8			Bense, pale brown (10YR 6/3) SILTY LOAM (SiL), trace medium	.67	13		
CRUSHED AGGREGATE FILL / 875.67 (sub-bass) Medium Dense, gray (10YR 5/1) SAND FILL, trace fine gravel,		8 4		7.3	to fine gravel, trace to little fine sand, moist		17		8.4
sand medium to fine, moist Stiff to Very Soft, black (10YR 2/1) CLAY LOAM (CL), trace to little		3		35.9	854 Hard, yellowish red (5YR 4/6) CLAY LOAM (CL), trace fine gravel, trace fine sand, moist	. 1 <i>1</i> 	44		10.0
fine gravel, trace to little fine sand, trace roots at 6.0', moist, organic soil or buried topsoil	5		1.3 P	55.9	851		25	4.0 P	10.0
	_	1		57.4	Hard to Very Stiff, brown (10YR 5/3) CLAY (C), trace fine gravel, trace fine sand, moist		13		11.3
869.17 Medium Stiff, pale brown (10YR 6/3) SANDY CLAY (SaC), trace to little fine gravel, moist	_	2	0.3 _P_/				21	4.0 P/	
866.67 Medium Dense, pale brown (10YR		4 5	0.5 P	12.6		- - <u>17.</u>	7 6	2.8 	10.6
6/3) LOAM (L), trace fine gravel, some fine sand, little clay, AASHTC classification A-4(1), moist	<u> </u>	5 7 7		12.3		 	-		
864.17 Hard, pale brown (10YR 6/3) CLAY LOAM (CL), trace to little fine gravel, trace to little sand, moist, Shelby tube 15-16' Qu=1.0		2		10.5			-		
tsf	15		4.5	9.9			-		
		18 31 41	1.0 B 4.5	8.7		-			
B59.17 Dense,pale brown (10YR 6/3) SILT (Si), moist to wet		15	4.3 P	11.8		-	_		
	-20	24				-4	0		

icated by (B-Bulge, S-Shear, P-Penetrometer)

BBS, from 137 (Rev. 8-99)

|--|

6	USER NAME = 560KAR	DESIGNED - AS	REVISED -		BORING LOGS	F.A.U. RTE	SECTION	COUNTY TOTAL SHEETS	. SHEET S NO.
BAXTER WOODMAN		CHECKED - BLB	REVISED -	STATE OF ILLINOIS	STRUCTURE NOS. 056-0345 & 056-0346	525 2	016-092B&R	MCHENRY 329	254
Consulting Engineers	PLOT SCALE = 1.0000 '/ in.	DRAWN – AS	REVISED -	DEPARTMENT OF TRANSPORTATION	31100101E 1003. 030-0343 & 030-0340			CONTRACT NO.	. 62D36
	PLOT DATE = 1/17/2020	FILE -0560345&6-62D36-016-BLOG.dgn	REVISED -		SHEET NO. 16 OF 18 SHEETS		ILLINOIS FE	D. AID PROJECT GMW(759)	

STRUCT. NO.	& 056-0320		DE	B	U C	M	Surface Water Elev.
Station			P		s	0	Stream Bed Elev.
BORING NO.	B-16		Т	w		s	Groundwater Elev.:
Station	775 + 01		H	S	Qu	Т	First Encounter86
Offset	9.00ft LT						Upon Completion 86
	ce Elev. 877.31	ft	(ft)	(/6'')	(tsf)	(%)	After Hrs
ASPHALT		876.81	1				Medium Dense, pale brown (10
Very Loose, blad		010101		1			6/3) SILTY LOAM (SiL), trace t
CRUSHED AGO	GREGATE FILL	875.81		1			little fine gravel, saturated
(sub-base)				2		21.4	(continued)
Medium Stiff, Bl CLAY (C), trace				1	0.5		
sand, moist	graver, trace	874.31			ÌΡ.		Hard, pale brown (10YR 6/3)
	Soft, black (10YR	07 1.01		1			CLAY LOAM (CL), trace to little fine gravel, trace to little fine sa
	0YR 6/1) SÀNDY			1			moist
CLAY (SaC), tra				4		35.1	molot
sand, shelby tub			-5	2	0.5		
5'-7', UC=0.35 ts	st, moist		-5	-	\ ₽		
					<u> </u>	64.3	
				1	0.4		
		870.31	_		B		
light gray (10YR	7/1) SILTY LOAM						
(SiL), trace grav					<u> </u>	80.3	
	TO classification						
A-7-6(17), moist	t	060 21	_				
Dense, gray (10	YR 5/1) SAND	868.31	<u> </u>	7			
WITH GRAVEL				12		12.0	
medium to fine g	grained, sand	000.04	-10	21			
predominantly fi	ne to very fine,	866.81			<u> </u>		
saturated	gray (10YR 5/1)			4			
SANDY LOAM ((SaL), little			5	<u> </u>	11.1	
medium to fine g				5			
medium to fine,		864.31					
Medium Dense.	pale brown (10YF			1			
	M (SiL), trace to			4			
little fine gravel,	saturated			5		10.0	
			-15				
			-15	-			
				5			
			_	5		10.3	
				6			
				-			
				1			
				5			
				7		9.9	
			-20	8			

SOIL BORING LOG

Page <u>1</u> of <u>1</u>

Date 5/10/17

The Unconfined Compressive Strength (UCS) Failure Mode is indicated by (B-Bulge, S-Shear, P-Penetrometer)

BBS, from 137 (Rev. 8-99)

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SOIL BORING LOG

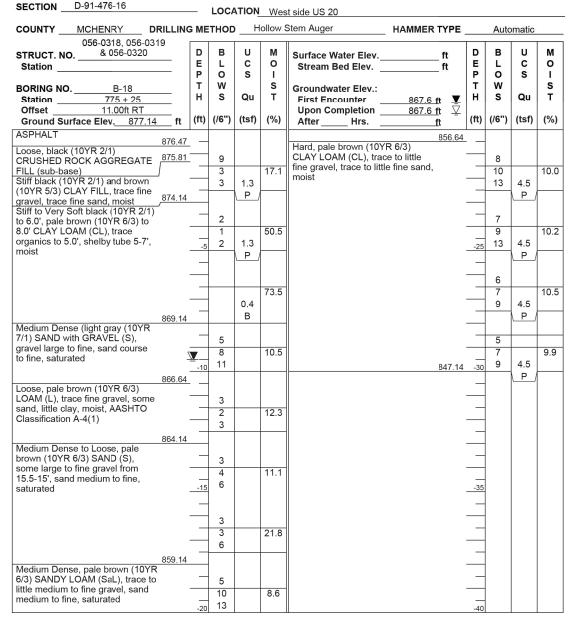
Page <u>1</u> of <u>1</u>

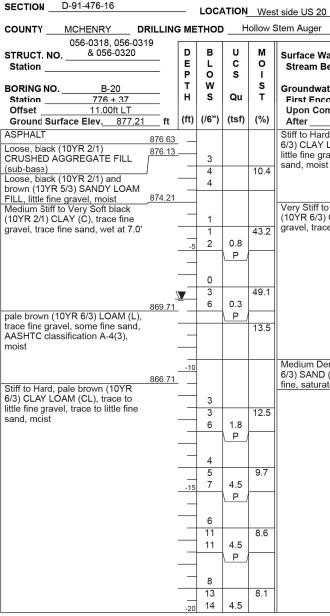
Date 5/9/17



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ROUTE FAP 525 (US Route 20) DESCRIPTION US 20 Culvert/proposed Retaining Wall LOGGED BY Eric Slusser





The Unconfined Compressive Strength (UCS) Failure Mode is indicated by (B-Bulge, S-Shear, P-Penetrometer)

BBS, from 137 (Rev. 8-99)

The Unconfined Compressive Strength (UCS) Failure Mode is indicated by (B-Bulge, S-Shear, P-Penetrometer)

	\plotdrv\pdf-BW_Default.p	
	STATE OF ILLINOIS - PROFESSIONAL DESIGN FIRM	

6	USER NAME = 560KAR	DESIGNED - AS	REVISED -		BORING LOGS	F.A.U. RTE	SECTION	COUNTY TOTAL SHEET SHEETS NO.
BAXTER WOODMAN		CHECKED - BLB	REVISED -	STATE OF ILLINOIS	STRUCTURE NOS. 056-0345 & 056-0346	525	2016-092B&R	MCHENRY 329 255
Consulting Engineers	PLOT SCALE = 1.0000 '/ in. PLOT DATE = 1/17/2020	DRAWN - AS FILE -0560345&6-62D36-017-BLOG.dgn	REVISED - REVISED -	DEPARTMENT OF TRANSPORTATION	SHEET NO. 17 OF 18 SHEETS		ILLINOIS FEI	CONTRACT NO. 62D36

SOIL BORING LOG

Page <u>1</u> of <u>1</u>

Date 5/9/17

ROUTE FAP 525 (US Route 20) DESCRIPTION US 20 Culvert/proposed Retaining Wall

LOGGED BY Eric Slusser

vves	t side US 20						
ollow S	Stem Auger	HAMMER	TYPE		Auto	matic	
M O I S T	Surface Water Elev. Stream Bed Elev. Groundwater Elev.: First Encounter Upon Completion	870.2	_ft ft I	D E P T H	BLOWS	U C S Qu	M 0 S T
(%)	After Hrs		ft	(ft)	(/6")	(tsf)	(%)
10.4	Stiff to Hard, pale brow 6/3) CLAY LOAM (CL), little fine gravel, trace to sand, moist <i>(continued</i>)	trace to little fine			6 8 10	P_/ 4.5	11.3
			854.21			<u>P</u> /	
	Very Stiff to Stiff pale b (10YR 6/3) CLAY (C), t gravel, trace fine sand,	trace fine			7		
43.2		moloc		-25	7 8	2.5	10.8
					_	<u>P</u>	
49.1				_	5		11.2
				_	7	1.0 P	
13.5				_	5		
			847.71		7		10.2
	Medium Dense pale br 6/3) SAND (S), mediun fine, saturated, MC=20	n to very	847.21	-30	6	1.0 /	
12.5							
				_			
9.7							
				-35			
8.6							
8.1				_			
				-40			

BBS, from 137 (Rev. 8-99)

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SECTION ______D-91-476-16

SOIL BORING LOG

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Date 5/9/17



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ROL	JTE F	AP	525 (US Ro	ute 20)	DE	SCR	IPTIO	N	US 20	0 0
SEC		0	0-91-4	476-16			_	LOC		Wes	st s
col			мсні	ENRY	D	RILLING	3 ME			lollow S	
STR Sta	UCT. Nation _ RING Nation _	NO. 10.	056-	-0318, & 056 B-2	056-03 0320 22		D E P T H	B L O W S	U C S Qu	M O I S T	•
Of	fset			13.00	ft LT		(ft)	(/6'')	(tsf)	(%)	
	OUND S	Surfa	ace E	lev	877.31	ft	(11)	(/0)	(151)	(70)	
Loos CRU (sub	se black JSHED -base) se pale	ÀG	GRE	GÁTE		876.64 876.23		3		12.9	f C
SAN grav Med) CL <u>k fra</u> iff bla	AY È I <u>gmei</u> ack (′	ILL, tra <u>nts, mo</u> 10YR 2	acé fine <u>bist</u> 2/1)	<u>_874.31</u>	_	5			
	rel, mois					871.81	-5	1	0.8 P	28.1	
gree	/ Soft bl enish gr trace fi st	ray (ĠRE`	Y 4/6) [′]	CLAY	869.81		1	0.3	73.3	
(SiL	vn (10Y), trace clay, m	gra	veĺ, s	ome s		2			<u>P</u>	51.4	
6/3) fine,	SAND satura	(S), ited,	medi scatt	ium to ered s		867.81	-10	5 9 8		12.6	r
lens	es (0.0	1') 1	1.0-1	2.5			_	24 14 8		14.8	
SILÍ	/ Stiff pa TY CLA rel, trac	Y (S e fin	SiC), t ie sar	trace fi nd, ST	ne	864.31		5		11.7	
15'-1	17', MC	:=9.6	5%, n	noist			-15	5	2.5 P	9.6	
	lium De SILT (S				(10YR	860.81		6	2.9 S		
grav wet	el, trac	e fin	ie sar	nd, mo	ist to	858.81		8 14		8.4	
6/3)	lium De SAND satura	(S),			(10YR very		-20	9 10 12		22.5	

The Unconfined Compressive Strength (UCS) Failure Mode is indicated by (B-Bulge, S-Shear, P-Penetrometer)

	USER NAME = 560KAR	DESIGNED – AS	REVISED -		BORING LOGS	F.A.U. BTE	SECTION	COUNTY TOT	FAL SHEET
XTER		CHECKED - BLB	REVISED -	STATE OF ILLINOIS	STRUCTURE NOS. 056–0345 & 056–0346	525	2016-092B&R	MCHENRY 32	29 256
Consulting Engineers	PLOT SCALE = 1.0000 '/ in.	DRAWN – AS	REVISED -	DEPARTMENT OF TRANSPORTATION	31NUCIUNE NUS. 030-0343 & 030-0340			CONTRACT 1	NO. 62D36
	PLOT DATE = 1/17/2020	FILE -0560345&6-62D36-018-BLOG.dgn	REVISED -		SHEET NO. 18 OF 18 SHEETS		ILLINOIS FED. A	ID PROJECT GMW(759)	

COUNTY MCHENRY DE		9 ME	THOD)Н	ollow	Stem Auger		TYPE		Auto	matic	
056-0318, 056-031 STRUCT. NO. & 056-0320 Station		D E P T H	B L O W S (/6")	U C S Qu (tsf)	M O I S T (%)	Surface Water Elev. Stream Bed Elev. Groundwater Elev.: First Encounter Upon Completion After Hrs.	<u> </u>	_ft ft ▼	D E P T H	B L O W S (/6")	U C S Qu (tsf)	M O I S T (%)
ASPHALT Loose, black (10YR 2/1)	876.40					Hard brown (10YR 5/ CLAY (SaC), trace fir	3) SANDY	<u>.</u>			<u>P</u>	
CRUSHED ROCK AGGREGATE FILL (sub-base)	875.97		6		8.4	moist (continued)				6 8		10.0
Loose, gray (10YR 5/1) SANDY LOAM FILL, trace large to fine	874.07		5						_	9	4.5 P	
gravel, sand medium to very fine, moist Medium Stiff black (10YR 2/1)	014.01		1			Medium Dense browr	n (10YR 5/3)	853.57		6		
CLAY LOAM (CL), trace fine gravel, trace fine sand, moist		-5	1	0.5	21.8	SAND (S), medium to trace to little silt, satu	o very fine, ´ rated		-25	8 14		14.5
Very Soft black (10YR 2/1) and	871.57			<u>P</u>		Hard brown (10YR 5/		851.57				
gray (10YR 5/1) CLAY (C), trace fine gravel, trace fine sand, wet, organic soil	-	<u> </u>	1		34.2	CLAY (SaC), trace to gravel, trace to little fi moist			_	7 8		9.9
	869.07		6	0.3				849.07		11	4.5 P	
Very Stiff to Hard brown (10YR 5/3) SANDY CLAY (SaC), trace medium to fine gravel, moist,		_	4			Medium Dense brown SILTY LOAM (SiL), tr medium to fine grave	ace to little,			6		
nice and grater, need,		-10	4 7	3.0 P	12.4			847.07	-30	11 1 \5/		8.3
			3									
			5	3.0	11.1				_			
Pale Brown (10YR 6/3) SANDY LOAM (SaL), trace gravel, little	864.57		5	<u> </u>	11.8							
silt, little clay, AASHTO Classification A-4(1), saturated	862.57											
Hard Pale Brown (10YR 6/3) SANDY CLAY (SaC), trace gravel,	002.01	-15	6 7		14.4				35			
moist Medium Dense brown (10YR 5/30	861.07		7 6	4.5 P								
SANDY LOAM (SaL), clay lense 16.1'-16.4', saturated		_	9 10		9.7				_			
Hard brown (10YR 5/3) SANDY	859.07	_										
CLAY (SaC), trace fine gravel, moist			5 8		10.3							
		-20	11	4.5					-40			

ROUTE FAP 525 (US Route 20) DESCRIPTION US 20 Culvert/proposed Retaining Wall LOGGED BY Eric Slusser

____ LOCATION East side US 20

BBS, from 137 (Rev. 8-99)

SOIL BORING LOG

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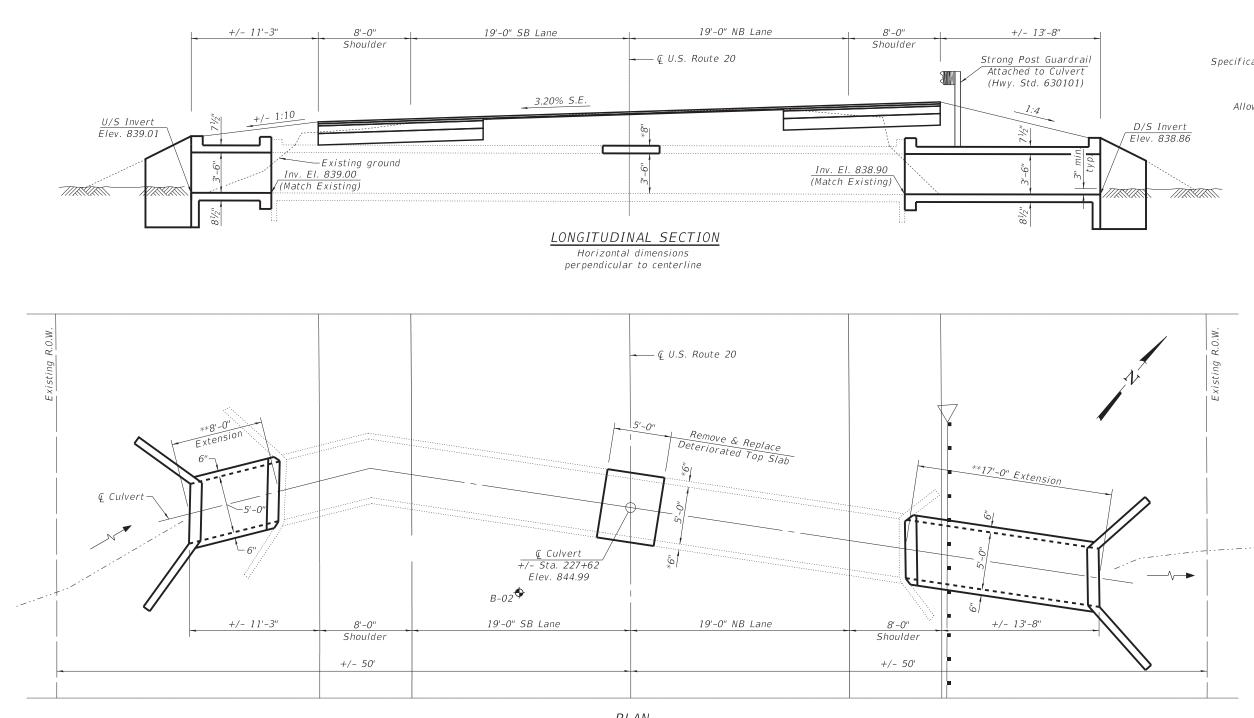
Date 5/9/17

US 20 Culvert/proposed Retaining Wall LOGGED BY Eric Slusser

low S	Stem Auger	HAMMER TYPE		Auto	matic	
M O I S T (%)	Surface Water Elev. Stream Bed Elev. Groundwater Elev.: First Encounter Upon Completion After Hrs.	ft 	D E P T H	B L O W S (/6")	U C S Qu (tsf)	M O I S T (%)
(70)		<u>ft</u> 856.81	L` '	,	()	(70)
2.9	Dense pale brown (10 ¹ SANDY LOAM (SaL), tr fine gravel, scattered si 0.01'-0.05', saturated	YR 6/3) ace to little		7 14		8.6
				24		
28.1			-25	14 18 21		7.9
				12		11.0
3.3		849.31		15 19		11.3
51.4	Dense pale brown (10Y SILTY LOAM (SiL), trac gravel, trace to little fine moist to wet	e fine	_	12 19		8.7
2.6		847.31	-30	25		
4.8						
			_			
1.7			-35			
9.6			_			
8.4						
22.5			-40			

The Unconfined Compressive Strength (UCS) Failure Mode is indicated by (B-Bulge, S-Shear, P-Penetrometer)

BBS, from 137 (Rev. 8-99)



**Match orientation of existing culvert and construct headwall parallel to existing headwall

PLAN *Dimensions estimated, match existing

Notes: See Typical Sections for roadway cross section.

Maintenance of Traffic details for top slab repair shown on sheet __ of __.

USER NAME = 560KAR DESIGNED -AS REVISED **GENERAL PL** STATE OF ILLINOIS CHECKED -BLB REVISED -CULVERT EXTENSION **DEPARTMENT OF TRANSPORTATION** PLOT SCALE = 0:1.0000 ':" / in. DRAWN AS REVISED PLOT DATE = 1/17/2020 FILE -D162D36-CulvertExt.dgn REVISED SHEET NO. 1 OF 3

DESIGN SPECIFICATIONS

2014 AASHTO LRFD Bridge Design Specifications, 7th Edition with 2015 & 2016 Interims

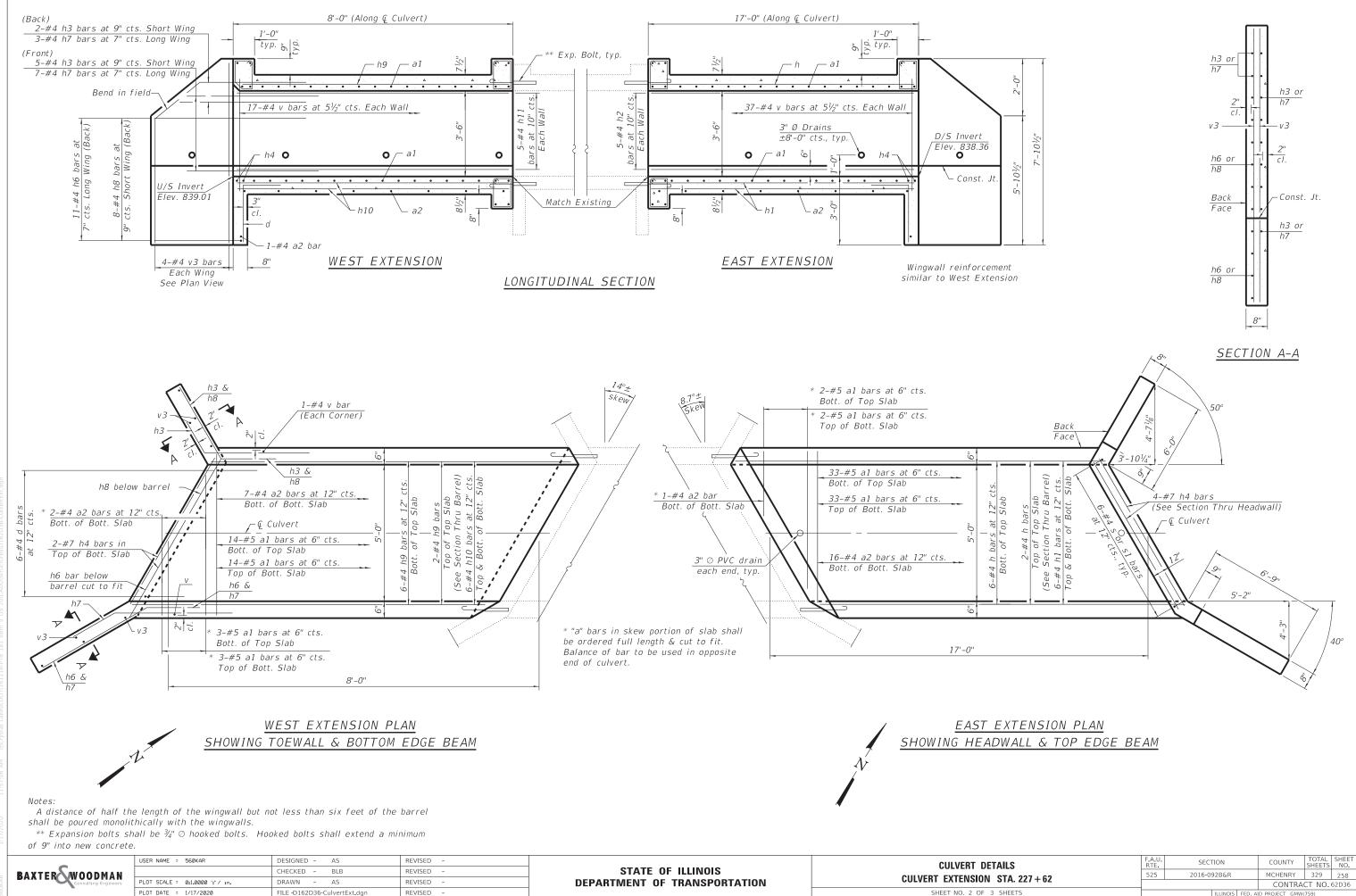
LOADING HL-93 Allow 50#/sq. ft. for future wearing surface.

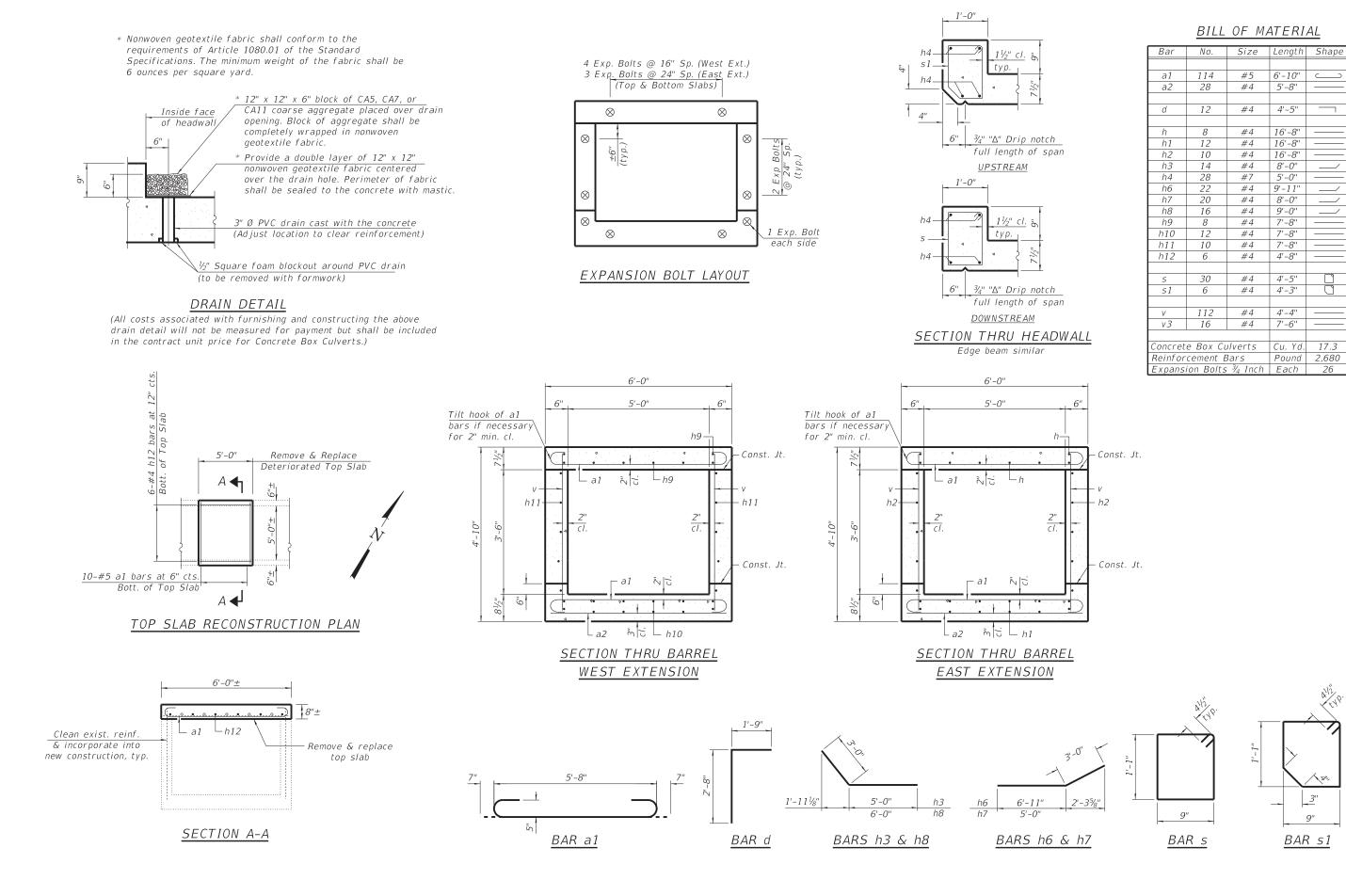
DESIGN STRESSES

FIELD UNITS

f'c = 3,500 psi fy = 60,000 psi (Reinforcement)

PLAN	F.A.U. RTE	SECT	ION		COUNTY	TOTAL SHEETS	SHEET NO.	
STA. 227 + 62		525 2016-092B&R			MCHENRY	329	257	
1 31A. 227 + 02					CONTRACT NO. 62D36			
3 SHEETS			ILLINOIS	FED. AI	D PROJECT G№	W(759)		

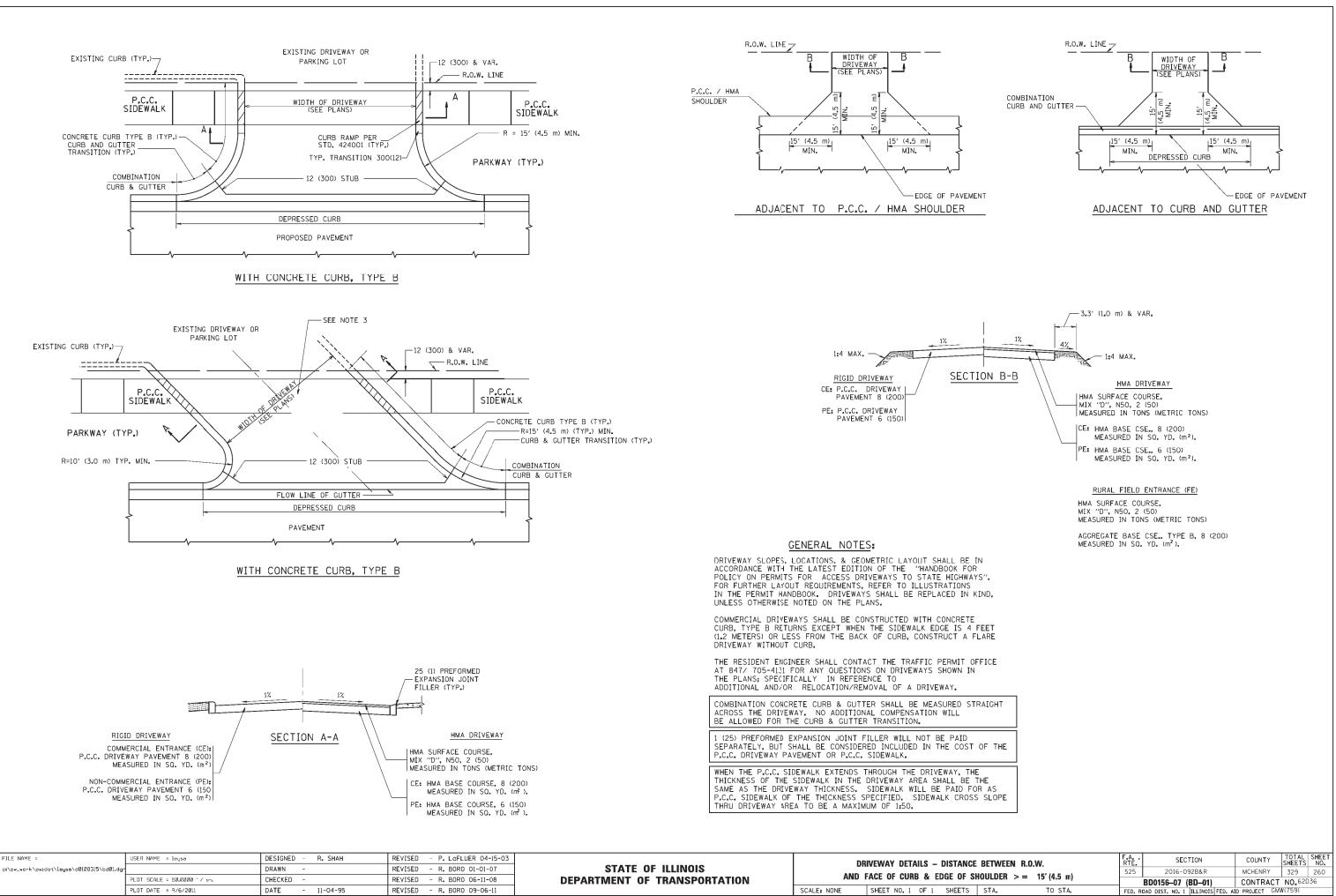




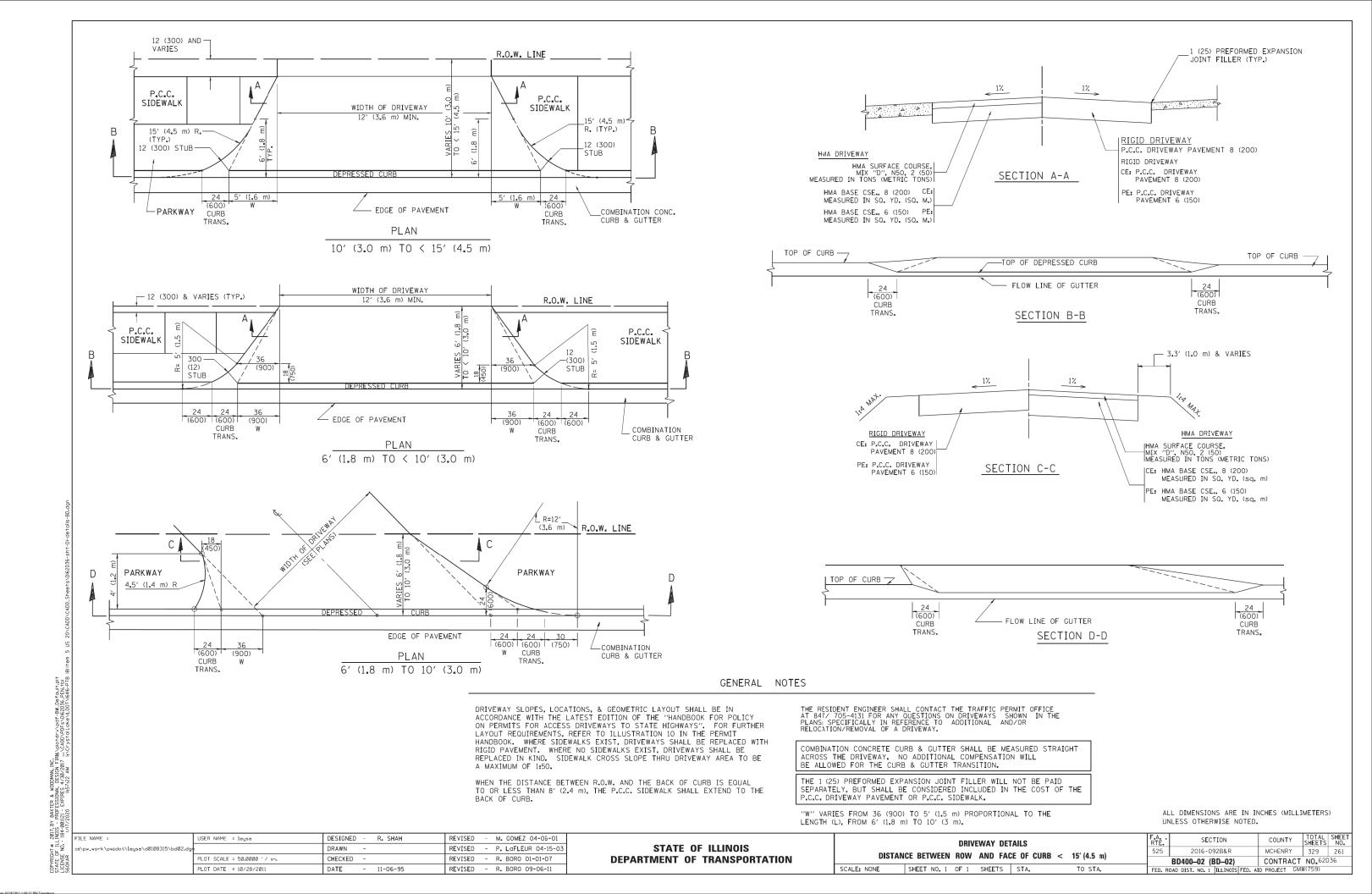
	-	USER NAME = 560KAR	DESIGNED - AS	REVISED -		CULVERT DETAI
	BAXTER		CHECKED - AGB	REVISED -	STATE OF ILLINOIS	
2	Consulting Engineers	PLOT SCALE = 0:1.0000 ':" / in.	DRAWN - &\$BB	REVISED -	DEPARTMENT OF TRANSPORTATION	CULVERT EXTENSION ST
ŝ		PLOT DATE = 1/17/2020	FILE -D162D36-CulvertExt.dgn	REVISED -		SHEET NO. 3 OF 3 SH

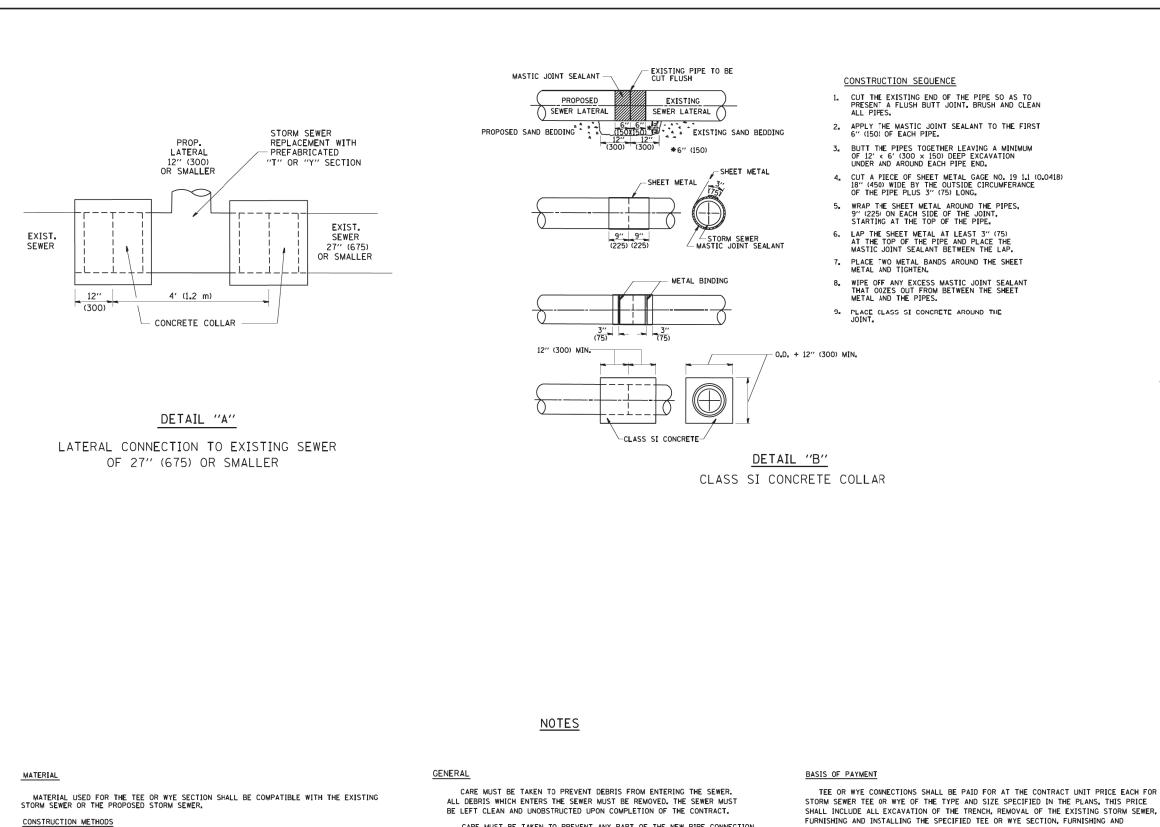
TAILS	F.A.U. RTE	SECT	ION		COUNTY	TOTAL SHEETS	SHEET NO.
STA. 227 + 62		5 2016-092B&R			MCHENRY	329	259
31A. 227 + 02					CONTRA	CT NO.	62D36
3 SHEETS			ILLINOIS	FED. AI	D PROJECT GMW(759)	

	BILL	OF M,	4IERI	AL
Bar	No.	Size	Length	Shape
a1	114	#5	6'-10"	
a2	28	#4	5'-8"	
d	12	#4	4'-5"	
h	8	#4	16'-8"	
h1	12	#4	16'-8"	
h2	10	#4	16'-8"	
h3	14	#4	8'-0"	/
h4	28	#7	5'-0"	
h6	22	#4	9'-11"	/
h7	20	#4	8'-0"	/
h8	16	#4	9'-0"	/
h9	8	#4	7'-8"	
h10	12	#4	7'-8"	
h11	10	#4	7'-8"	
h12	6	#4	4'-8"	
	20	#4		
s 51	30 6	#4	4'-5" 4'-3"	
51	0	#4	4-5	U
V	112	#4	4'-4''	
v v3	16	#4	7'-6"	
~ ~ ~	10	#4	/ -0	
Concret	е Вох Си	lverts	Cu. Yd.	17.3
	cement E		Pound	2,680
	ion Bolts		Each	26
· · ·				



SHEET NO. 1 OF 1 SHEETS STA. SCALE: NONE





I. THIS WORK SHALL BE CONSTRUCTED IN CONFORMANCE WITH THE APPLICABLE PORTIONS OF SECTION 550 OF THE STANDARD SPECIFICATIONS.

ta p

- II. CONNECTION TO AN EXISTING STORM SEWER SHALL BE BY EITHER OF THE FOLLOWING METHODS:
 - A) PROPOSED STORM SEWER CONNECTION TO EXISTING SEWER OF 27" (675) OR SMALLER SEE DETAIL "A" AND "B".
 - B) PROPOSED STORM SEWER CONNECTION TO EXISTING SEWER OF 30" (750) OR LARGER SEE DETAIL "C".

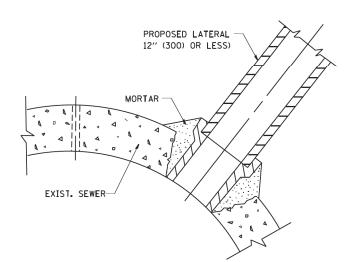
CARE MUST BE TAKEN TO PREVENT ANY PART OF THE NEW PIPE CONNECTION FROM PROJECTING INTO THE EXISTING SEWER.

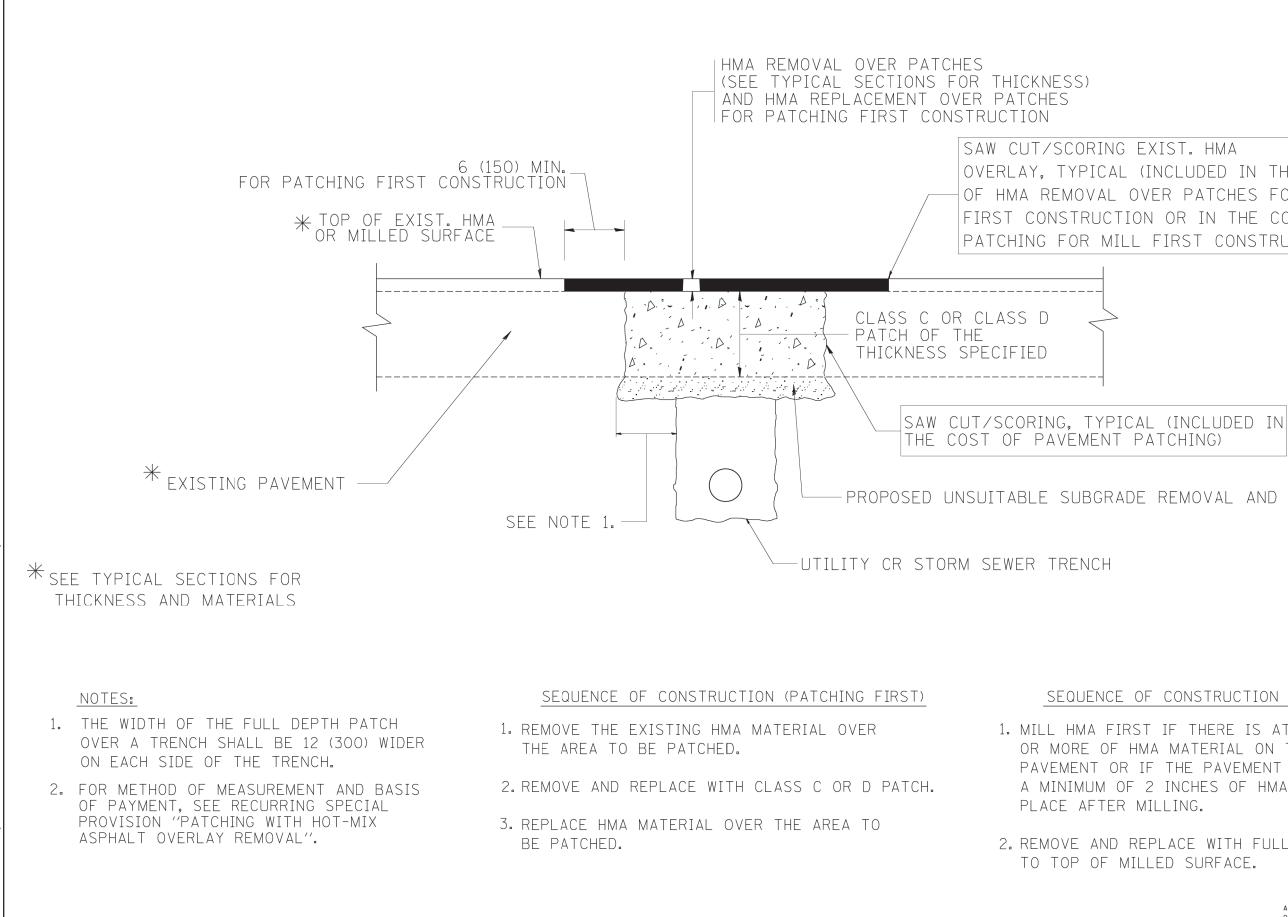
STORM SEWER TEE OR WYE OF THE TYPE AND SIZE SPECIFIED IN THE PLANS, THIS PRICE SHALL INCLUDE ALL EXCAVATION OF THE TRENCH, REMOVAL OF THE EXISTING STORM SEWER, FURNISHING AND INSTALLING THE SPECIFIED TEE OR WYE SECTION, FURNISHING AND INSTALLING THE REQUIRED CONCRETE COLLAR, AND ALL OTHER MATERIAL NECESSARY TO COMPLETE THIS WORK AS SHOWN AND SPECIFIED.

REMOVAL AND REINSTALLATION OF EXISTING STORM SEWER ADJACENT TO THE PROPOSED TEE OR WYE SECTION, FOR THE PURPOSE OF FACILITATING THE INSTALLATION OF THE TEE OR WYE SECTION, WILL NOT BE PAID FOR SEPARATELY BUT SHALL BE INCLUDED IN THE UNIT PRICE BID FOR THE WORK.

	STORM SEWER CONNECTION TO EXISTING SEW	FR OF 30" (750) OR LARGER SEE		UNIT PRICE BID F	OR THE WORK.		
DETAIL "C					L. EXCAVATION IN ROCK AND REMOVAL AND REPLACEMENT OF UNSUITABLE PLAN BEDDING GRADE WILL BE PAID FOR SEPARATELY.		
É CONTRACTOR I SECTION OF P	N MAKING THE CIRCULAR OPENING, THE CONT IPE WITH PIPE EQUAL AND SIMILAR IN ALL R SEWER, IN A CAREFUL WORKMANLIKE MANNER,	RACTOR SHALL REPLACE THAT RESPECTS TO THE PIPE IN			AR FOR CONNECTING A PROPOSED STORM SEWER TO AN EXISTING STORM SEWER PAID FOR SEPARATELY BUT SHALL BE INCLUDED IN THE COST OF THE PROPOSED	ALL DIMENSIONS ARE IN INC OTHERWISE SHOWN.	HES (MILLIMETERS) UNLESS
FILE NAME =	USER NAME = gaglianobt	DESIGNED - M. DE YONG	REVISED - M. DE YONG 05-08-92		DETAIL OF STORM SEWER	F.A. SECTION	COUNTY TOTAL SHEE'S NO.
W:\diststd\22x34\bd07.dgn		DRAWN -	REVISED - R. SHAH 09-09-94	STATE OF ILLINOIS		525 2016-092B&R	MCHENRY 329 262
KAR	PLOT SCALE = 50.000 '/ IN.	CHECKED -	REVISED - R. SHAH 10-25-94	DEPARTMENT OF TRANSPORTATION	CONNECTION TO EXISTING SEWER	BD500-01 (BD-7)	CONTRACT NO. 62D36
2200	PLOT DATE = 1/4/2008	DATE - 07-25-90	REVISED - R. SHAH 06-12-96		SCALE: NONE SHEET NO. 1 OF 1 SHEETS STA. TO STA.	FED. ROAD DIST. NO. 1 ILLINOIS FED	

DETAIL "C" PROPOSED LATERAL CONNECTION TO EXISTING SEWER OF 30" (750) OR LARGER





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- L										
₩ F	_E NAME =	USER NAME = bauerdl	DESIGNED - R. SHAH	REVISED - A. ABBAS 04-27-98			PAVEMENT PATCHING FOR		F.A. SECTION	COUNTY TOTAL SHEET
g c	\projects\diststd22x34\bd22.dgn		DRAWN -	REVISED - R. BORO 01-01-07	STATE OF ILLINOIS				525 2016-092B&R	MCHENRY 329 263
KAR		PLOT SCALE = 50.000 '/ IN.	CHECKED -	REVISED - R. BORO 09-04-07	DEPARTMENT OF TRANSPORTATION		HMA SURFACED PAVEMENT		BD400-04 (BD-22)	CONTRACT NO.62D36
260 LIC		PLOT DATE = 10/27/2008	DATE - 10-25-94	REVISED - K. ENG 10-27-08		SCALE: NONE	SHEET NO. 1 OF 1 SHEETS STA.	TO STA,	FED. ROAD DIST. NO. 1 ILLINOIS F	D. AID PROJECT GMW(759)

OVERLAY. TYPICAL (INCLUDED IN THE COST OF HMA REMOVAL OVER PATCHES FOR PATCHING FIRST CONSTRUCTION OR IN THE COST OF PAVEMENT PATCHING FOR MILL FIRST CONSTRUCTION).

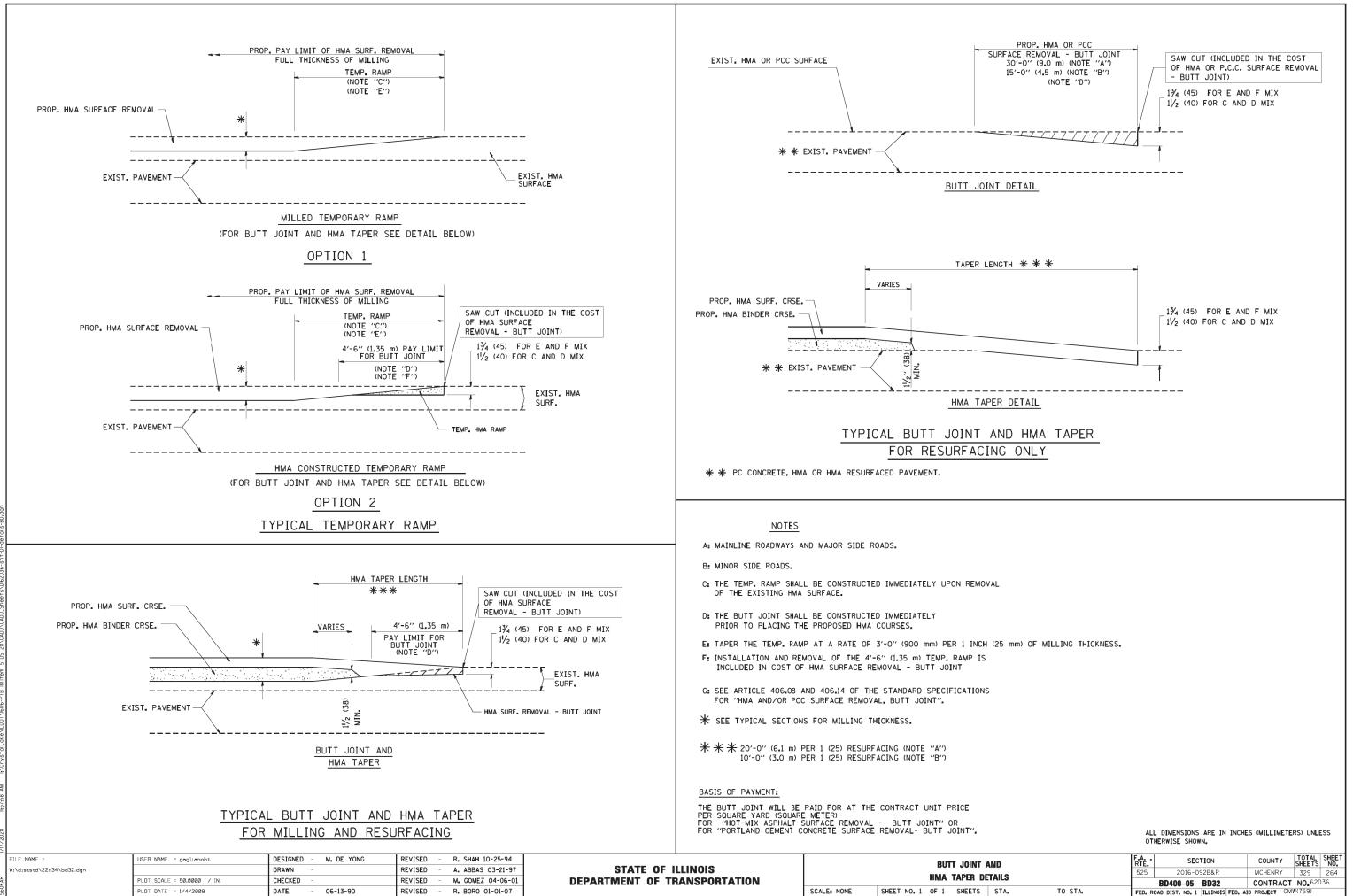
PROPOSED UNSUITABLE SUBGRADE REMOVAL AND REPLACEMENT

SEQUENCE OF CONSTRUCTION (MILLING FIRST)

1. MILL HMA FIRST IF THERE IS AT LEAST $4\frac{1}{2}$ inches OR MORE OF HMA MATERIAL ON TOP OF THE EXISTING PAVEMENT OR IF THE PAVEMENT IS FULL DEPTH HMA. A MINIMUM OF 2 INCHES OF HMA MATERIAL SHALL BE IN PLACE AFTER MILLING.

2. REMOVE AND REPLACE WITH FULL DEPTH CLASS D PATCHES TO TOP OF MILLED SURFACE.

ΕΛ						TOTAL	CUEE
OTH	ERWISE SHOW	Ν.					
			IN	INCHES	(MILLIMETERS)	UNLES	S

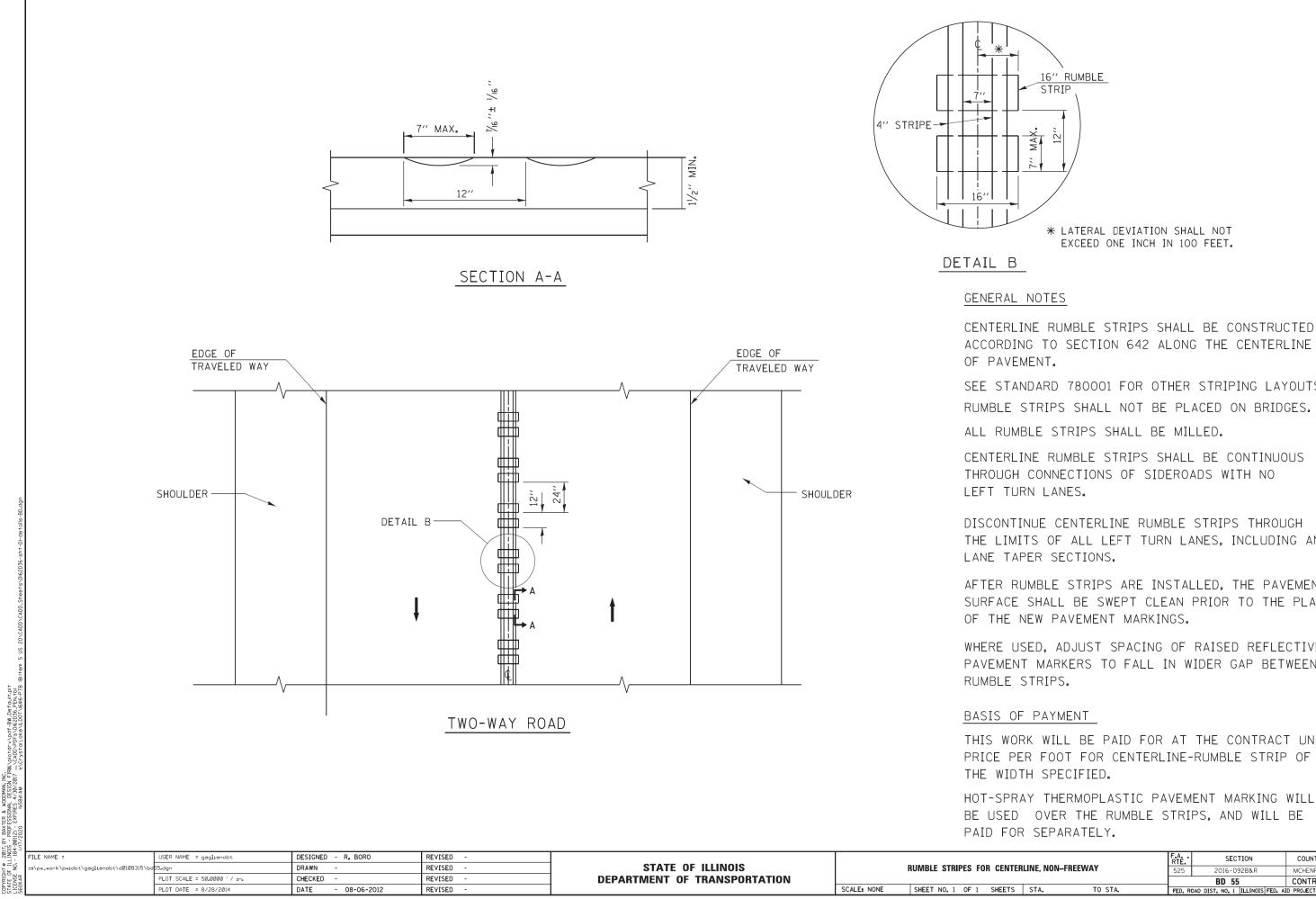


DESIGN F 4/30/2017

PROFESSIONAL | PROFESSIONAL | 1121 - EXPIRES 4

2017. INDIS 184-

1	AND		F.A RTE.	SECTION	COUNTY	TOTAL SHEET SHEETS NO.
	ETAILS		525	2016-092B&R	MCHENRY	329 264
	TAILS			BD400-05 BD32	CONTRACT	NO_62D36
	STA.	TO STA.	FED. R	DAD DIST. NO. 1 ILLINOIS FED. A	D PROJECT GM	W(759)



ACCORDING TO SECTION 642 ALONG THE CENTERLINE

SEE STANDARD 780001 FOR OTHER STRIPING LAYOUTS. RUMBLE STRIPS SHALL NOT BE PLACED ON BRIDGES.

CENTERLINE RUMBLE STRIPS SHALL BE CONTINUOUS

DISCONTINUE CENTERLINE RUMBLE STRIPS THROUGH THE LIMITS OF ALL LEFT TURN LANES, INCLUDING ANY

AFTER RUMBLE STRIPS ARE INSTALLED, THE PAVEMENT SURFACE SHALL BE SWEPT CLEAN PRIOR TO THE PLACEMENT

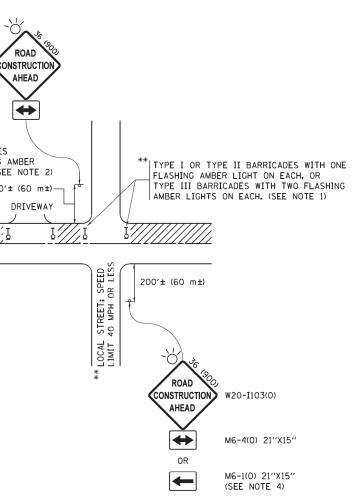
WHERE USED. ADJUST SPACING OF RAISED REFLECTIVE PAVEMENT MARKERS TO FALL IN WIDER GAP BETWEEN

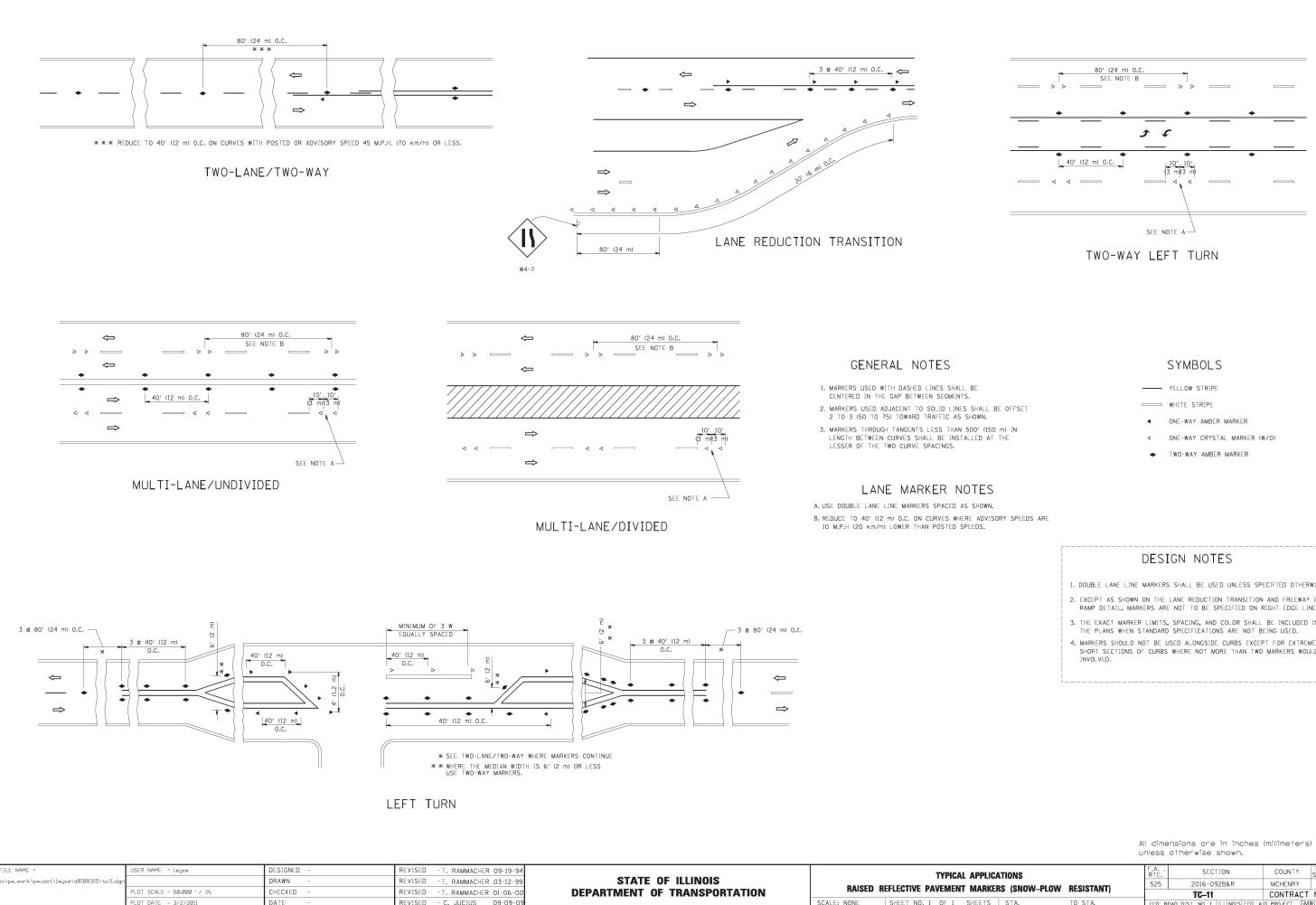
THIS WORK WILL BE PAID FOR AT THE CONTRACT UNIT PRICE PER FOOT FOR CENTERLINE-RUMBLE STRIP OF

BE USED OVER THE RUMBLE STRIPS, AND WILL BE

	ERLINE, NON-FREEWAY		F.A. RTE	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.	
ER			525	2016-092B&R	MCHENRY	329	265	
			_	BD 55 CONTRACT NO.62D36				
	STA.	TO STA.	FED. R	OAD DIST. NO. 1 ILLINOIS FED. A	D PROJECT GM	W(759)		

]
		* COLLECTOR SCOLLECTOR * COLLECTOR SCOLLECTOR * COLLECTOR MOULT 40 MPH (60 mmt) DLINFRMAL * COLLECTOR MOULT 40 MPH (60 mmt) DLINFRMAL * COLLECTOR * CO	TYPE I OR TYPE II BARRICADES WITH ONE FLASHING AMBER LIGHT ON EACH, OR TYPE III BARRICADES WITH TWO FLASHING AMBER LIGHTS ON EACH. (SEE NOTE 1)
The NAME 2 * LEE NAME 2 * (LASE NAME 2 * (LASEN) DESIDNED - LAHA. REVISED - A. HOUSEH 10-15-96 The NAME 2 * INTERNATION OF COMPANY OF CO	SHOWN ON THE DRAWING A a) ONE "ROAD CONSTRL MOUNTED ON IT APP b) THE CLOSED PORTIO BLOCKING WITH TYP THE CROSS SECTION 2. SIDE ROAD WITH A SPEED AS SHOWN ON THE DRAWIN a) ONE "ROAD CONSTRL FLASHER MOUNTED C OF THE MAIN ROUTE b) THE CLOSED PORTIO BLOCKING WITH TYP OF THE CLOSED PORTIO BLOCKING WITH TYP OF THE CLOSED FOR 3. CONES MAY BE SUBSTITUT SPACING DURING DAY OPEI IN HEIGHT. 4. WHEN THE SIDE ROAD LIES SIGNING AND THE WORK Z	ND AS DIRECTED BY THE ENGINEER: ICTION AHEAD" SIGN 36 × 36 (900×900) WITH A FLASHER ROXIMATELY 200' (60 m) IN ADVANCE OF THE MAIN ROUTE. N OF THE MAIN ROUTE SHALL BE PROTECTED BY OF THE CLOSED PORTION. LIMIT GREATER THAN 40 MPH (60 km/h) IG AND AS DIRECTED BY THE ENGINEER: ICTION AHEAD" SIGN 48 × 48 (1.2 m × 1.2 m) WITH A IN IT APPROXIMATELY 500' (150 m) IN ADVANCE N OF THE MAIN ROUTE SHALL BE PROTECTED BY IIII BARRICADES, 1/2 OF THE CROSS SECTION	IS BEING PERFORMED ON A SIDE ROAD OR DRIVEWAY, APPLICABLE STANDARD(S). THE DIRECTIONAL 1 OR M6-4) SHALL BE COVERED OR REMOVED WHEN CONSISTENT WITH THE TRAFFIC CONTROL SET-UP. RNING SIGNS ARE TO BE OMITTED ON DRIVEWAYS ERWISE SPECIFIED IN THE PLANS OR BY THE C CONTROL AND PROTECTION FOR SIDE ROADS, DNS, AND DRIVEWAYS SHALL BE INCLUDED IN THE ECIFIED TRAFFIC CONTROL STANDARDS OR ITEMS.
Visite Visite<		TRAFFIC CONTROL AND PROTECTION FOR	All dimensions are in inches (millimeters) unless otherwise shown. F.A. SECTION COUNTY TOTAL SHEET RTE. SECTION COUNTY SHEETS NO.
P#1/L084EBIDINTEG.1111nois.gov/PWIDDT/Do umments/IDDT Offices/District I/Projects/District //Projects/District //Project	STATE OF ILLINOIS DEPARTMENT OF TRANSPORTATION	SIDE ROADS, INTERSECTIONS, AND DRIVEWAYS SCALE: NONE SHEET 1 OF 1 SHEETS STA. TO STA.	TC-10 CONTRACT NO. TC-10 CONTRACT NO.62D36 ILLINOIS FED. AID PROJECT

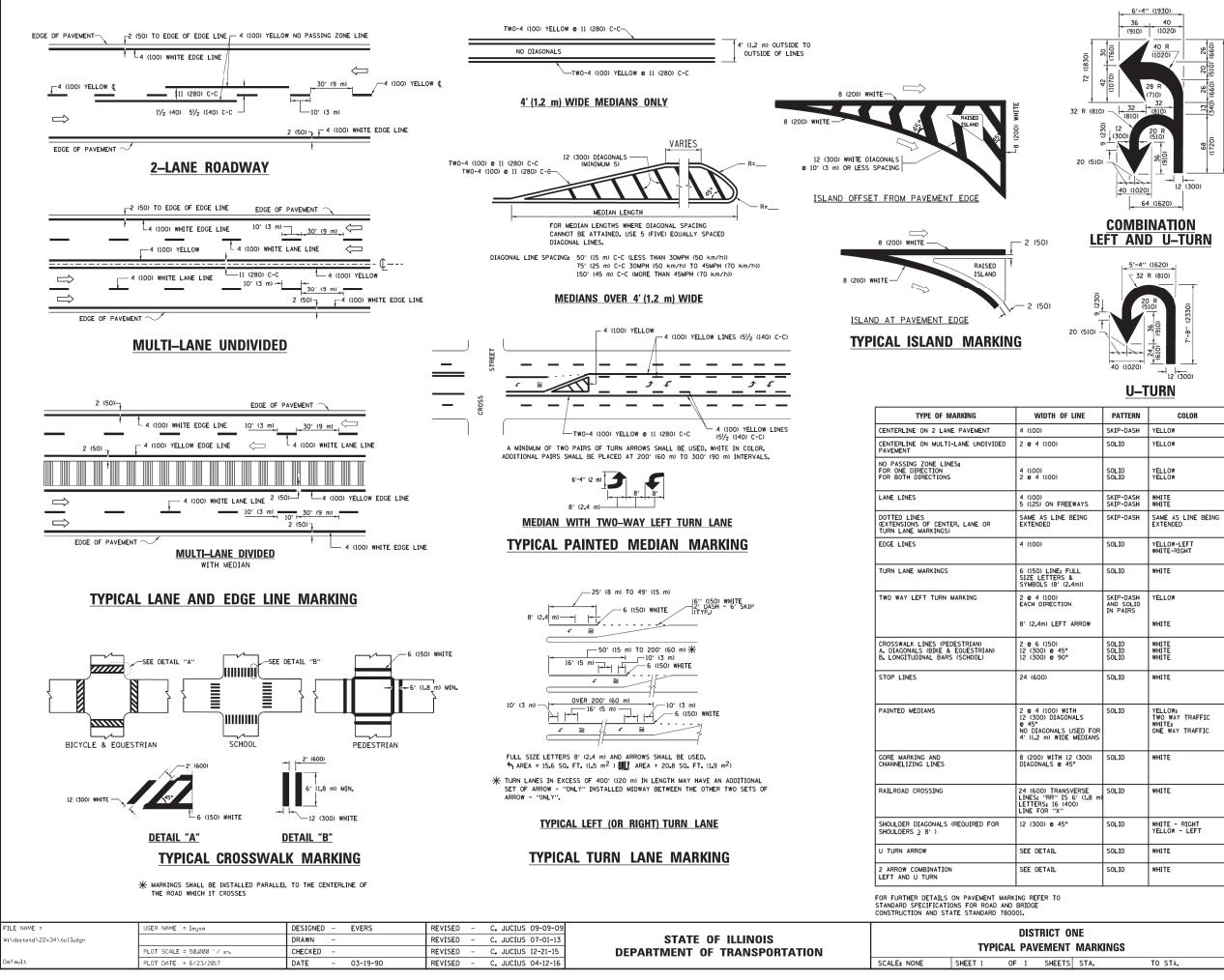


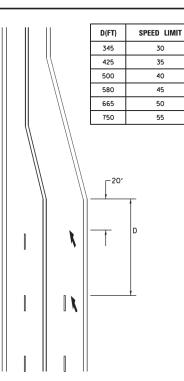


SCALE: NONE SHEET NO. 1 OF 1 SHEETS

1. DOUBLE LANE LINE MARKERS SHALL BE USED UNLESS SPECIFIED OTHERWISE. 2. EXCEPT AS SHOWN ON THE LANE REDUCTION TRANSITION AND FREEWAY EXIT RAMP DETAIL, MARKERS ARE NOT TO BE SPECIFIED ON RIGHT EDGE LINES. 3. THE EXACT MARKER LIMITS, SPACING, AND COLOR SHALL BE INCLUDED IN THE PLANS WHEN STANDARD SPECIFICATIONS ARE NOT BEING USED. 4. MARKERS SHOULD NOT BE USED ALONGSIDE CURBS EXCEPT FOR EXTREMELY SHORT SECTIONS OF CURBS WHERE NOT MORE THAN TWO MARKERS WOULD BE

IONS	F.A Rte.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
(SNOW-PLOW RESISTANT)	525	2016-092B&R	MCHENRY	329	267
(SNUW-FLOW RESISTANT)	_	TC-11	CONTRACT	NO.62D	36
STA. TO STA.	FED. RO	DAD DIST. NO. 1 ILLINOIS FED. A	ID PROJECT GM	W(759)	





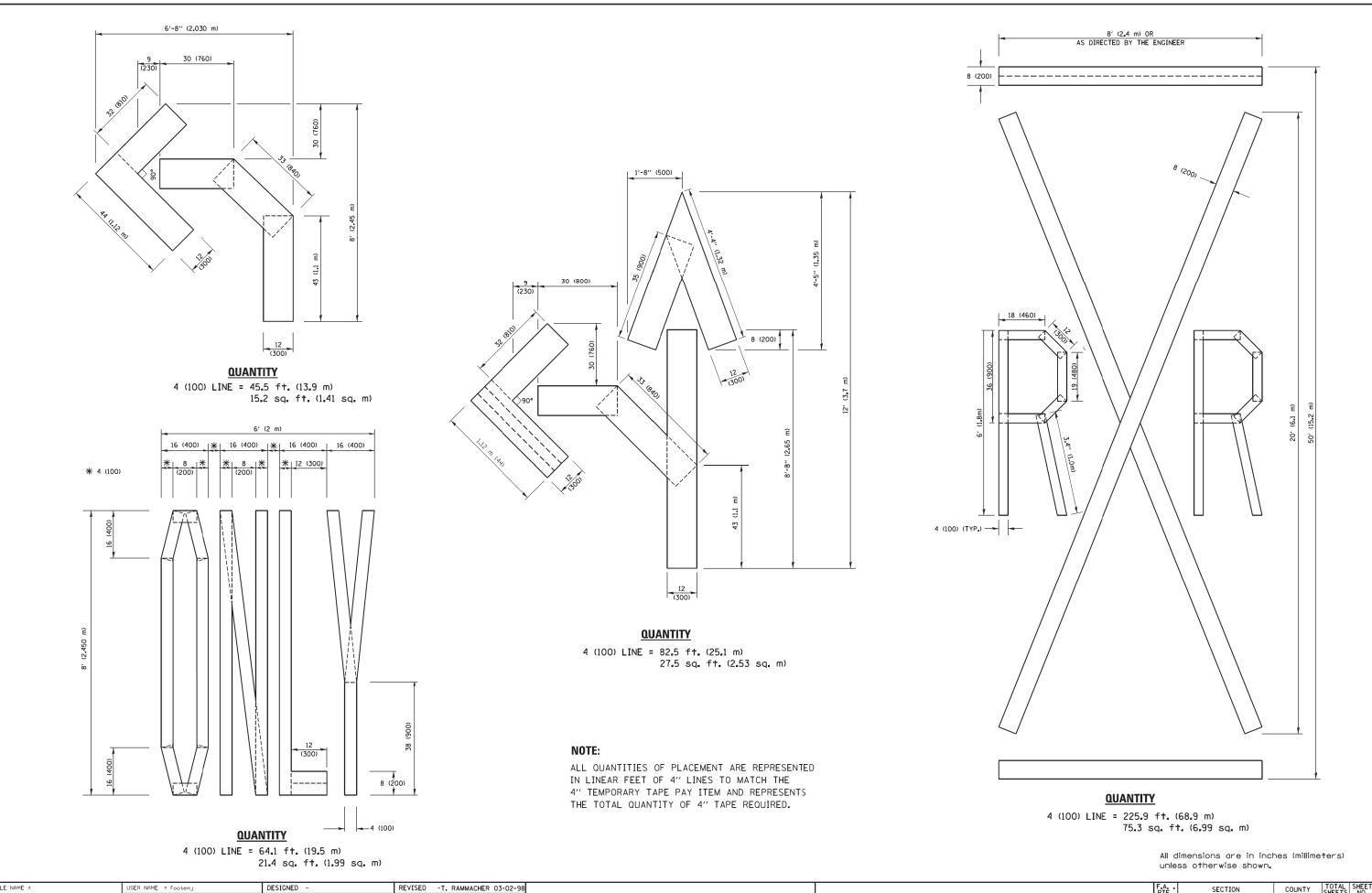
LANE REDUCTION TRANSITION

★ LANE REDUCTION ARROWS REQUIRED AT SPEEDS OF 45 MPH OR GREATER OR WHEN SPECIFIED IN PLANS.

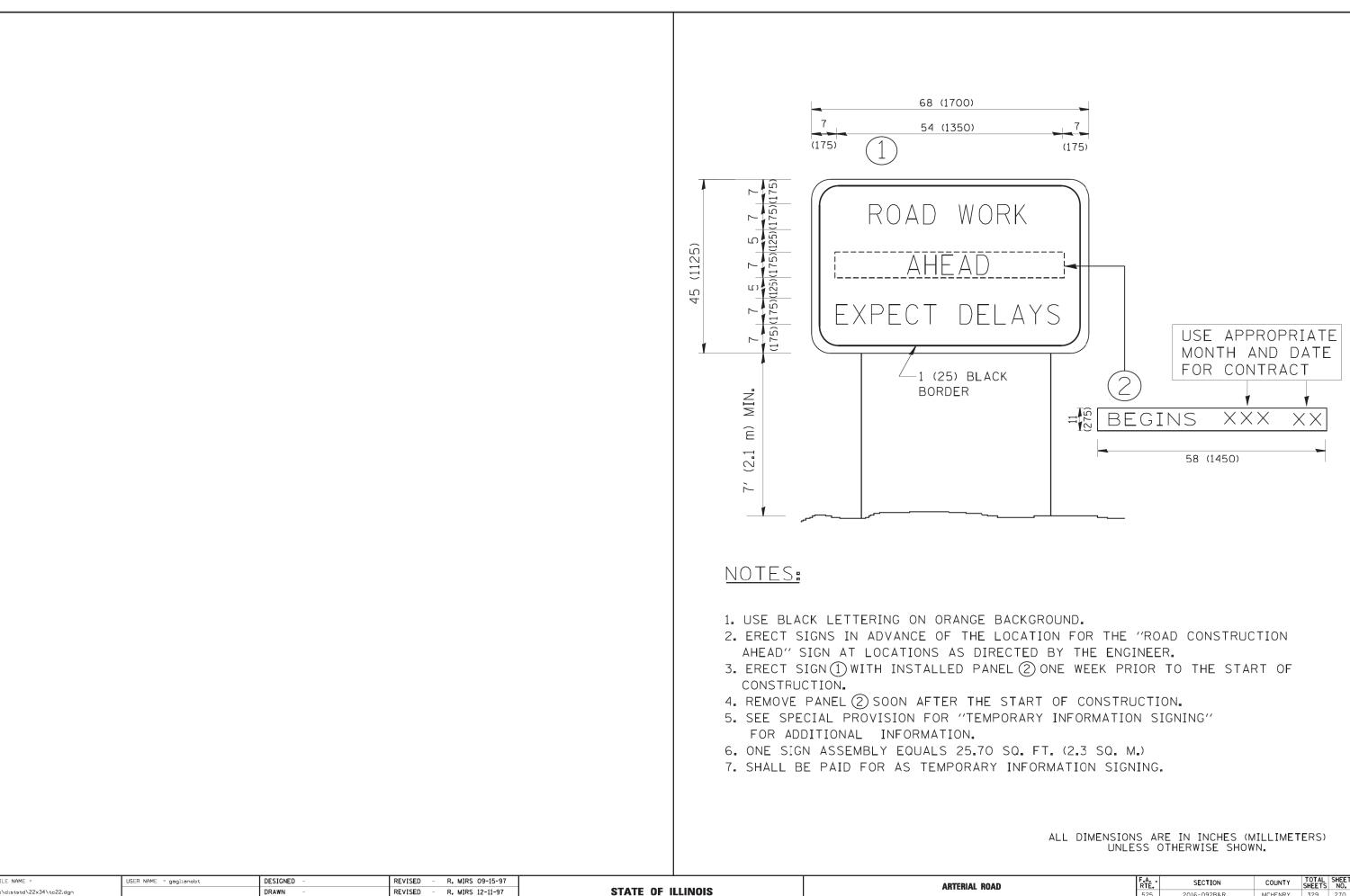
F LINE	PATTERN	COLOR	SPACING /REMARKS
	SKIP-DASH	YELLOW	10' (3 m) LINE WITH 30' (9 m) SPACE
	SOLID	YELLOW	11 (280) C-C
	SOLID SOLID	YELLOW YELLOW	51/2 (140) C-C FROM SKIP-DASH CENTERLINE 11 (280) C-C OMIT SKIP-DASH CENTERLINE BETWEEN
EEWAYS	SKIP-DASH SKIP-DASH	WHITE WHITE	10' (3 m) LINE WITH 30' (9 m) SPACE
BEING	SKIP-DASH	SAME AS LINE BEING EXTENDED	2' (600) LINE WITH 6' (1.8 m) SPACE
	SOLID	YELLOW-LEFT WHITE-RIGHT	OUTLINE MEDIANS IN YELLOW
FULL & 2.4m))	SOLID	WHITE	SEE TYPICAL TURN LANE MARKING DETAIL
ON F ARROW	SKIP-DASH AND SOLID IN PAIRS	YELLOW	10' (3 m) LINE WITH 30' (9 m) SPACE FOR SKIP-DASH; 5½ (140) C-C BETWEEN SOLID LINE AND SKIP-DASH LINE SEE TYPICAL TWO-WAY LEFT TURN MARKING DETAIL
0 0	SOLID SOLID SOLID	WHITE WHITE WHITE	NOT LESS THAN 6' (1.8 m) APART 2' (600) APART 2' (600) APART SEE TYPICAL CROSSWALK MARKING DETAILS.
	SOLID	WHITE	PLACE 4'(1.2 m)IN ADVANCE OF AND PARALLEL TO CROSSWALK, IF PRESENT. OTHERWISE, PLACE AT DESIRED STOPPING POINT. PARALLEL TO CROSSROAD CENTERLINE, WHERE POSSIBLE
VITH ONALS USED FOR E MEDIANS	SOLID	YELLOW: TWO WAY TRAFFIC WHITE: ONE WAY TRAFFIC	11 (280) C-C FOR THE DOUBLE LINE SEE TYPICAL PAINTED MEDIAN MARKING.
12 (300) 45°	SOLID	WHITE	DIAGONALS: 15' (4,5 m) C-C (LESS THAN 30MPH (50 km/h)) 20' (6 m) C-C 30MPH (50 km/h) TO 45MPH (70 km/h)) 30' (9 m) C-C (0VER 45MPH (70 km/h))
ISVERSE S 6' (1.8 m) 400)	SOLID	WHITE	SEE STATE STANDARD 780001 AREA OFm "R"=3.6 SO. FT. (0.33 m ²) EACH "X"=54.0 SO. FT. (5.0 m ²)
٥	SOLID	WHITE - RIGHT Yellow - Left	50' (15 m) C-C (LESS THAN 30MPH (50 km/h)) 75' (25 m) C-C (30 MPH (50 km/h) TO 45MPH (70 km/h)) 150' (45 m) C-C (0VER 45MPH (70 km/h))
	SOLID	WHITE	16.3 SF
	SOLID	WHITE	30.4 SF

All dimensions are in inches (millimeters) unless otherwise shown.

ONE IT MARKINGS		F.A. RTÉ.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.				
		525	2016-092B&R	MCHENRY	329	268				
			TC-13	CONTRACT	NO.62D	36				
TS	STA.	TO STA.		ILLINOIS FED. AID PROJECT GMW(759)						

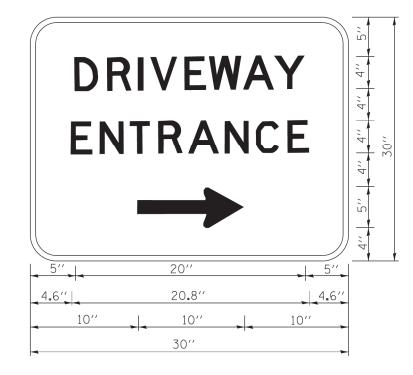


INC INC	FILE NAME =	USER NAME = footemj	DESIGNED -	REVISED -T. RAMMACHER 03-02-98				F.A RTF.	SECTION	COUNTY TOTAL SHEET SHEETS NO.
ц.	pw:\\IL084EBIDINTEG.1111no1s.gov:PWIDOT\Do	cuments\IDOT Offices\District 1\Projects\Dist	St DRAWN \CADData\CADsheets\tc16.dgn	REVISED -E. GOMEZ 08-28-00	STATE OF ILLINOIS	SHOP	RT TERM PAVEMENT MARKING LETTERS AND SYMBOLS	525	2016-092B&R	MCHENRY 329 269
KAR		PLOT SCALE = 50.0000 // in.	CHECKED -	REVISED - E. GOMEZ 08-28-00	DEPARTMENT OF TRANSPORTATION				TC-16	CONTRACT NO.62D36
STA 560		PLOT DATE = 9/15/2016	DATE - 09-18-94	REVISED - A. SCHUETZE 09-15-16		SCALE: NONE	SHEET NO. 1 OF 1 SHEETS STA. TO STA.	FED. RO	AD DIST. NO. 1 ILLINOIS FED.	AID PROJECT GMW(759)



FILE NAME =

USER NAME = gaglianobt	DESIGNED -	REVISED - R. MIRS 09-15-97			ARTERIAL ROAD			F.A RTE.	SECTION	COUNTY	TOTAL SHEETS			
	DRAWN -	REVISED - R. MIRS 12-11-97	STATE OF ILLINOIS							525	2016-092B&R	MCHENRY	329	270
PLOT SCALE = 50.000 '/ IN.	CHECKED -	REVISED -T. RAMMACHER 02-02-99	DEPARTMENT OF TRANSPORTATION	INFORMATION SIGN					TC-22	CONTRAC	T NO.62	2D36		
PLOT DATE = 1/4/2008	DATE -	REVISED - C. JUCIUS 01-31-07		SCALE: NONE SHEET NO. 1 OF 1 SHEETS STA. TO STA.				TO STA.	FED. RO	AD DIST. NO. 1 ILLINOIS F				

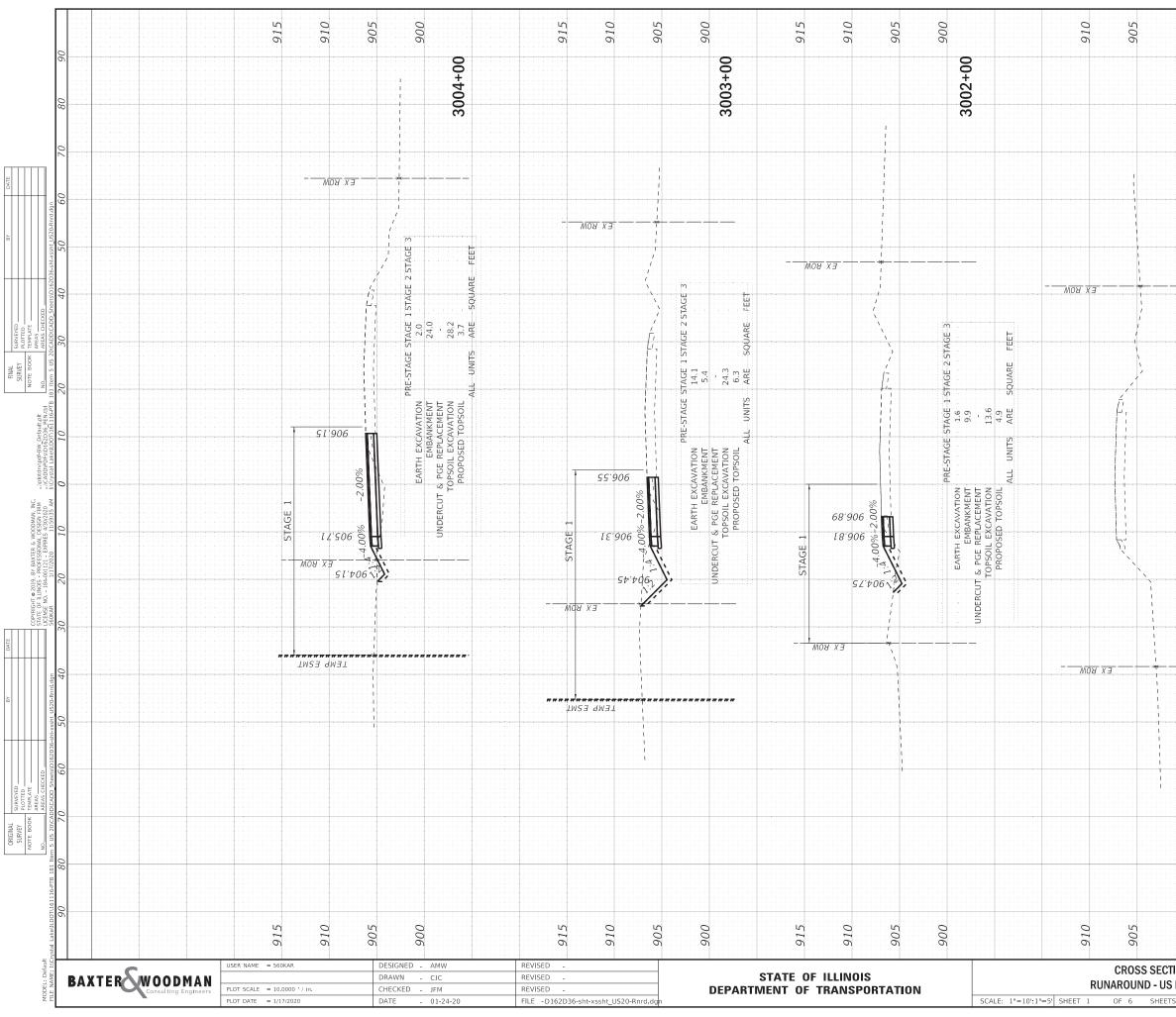


3.0" RADIUS, 0.5" BORDER, WHITE ON GREEN; REFLECTORIZED "DRIVEWAY" D; "ENTRANCE" D; STANDARD ARROW CUSTOM 12.0" × 5.0"

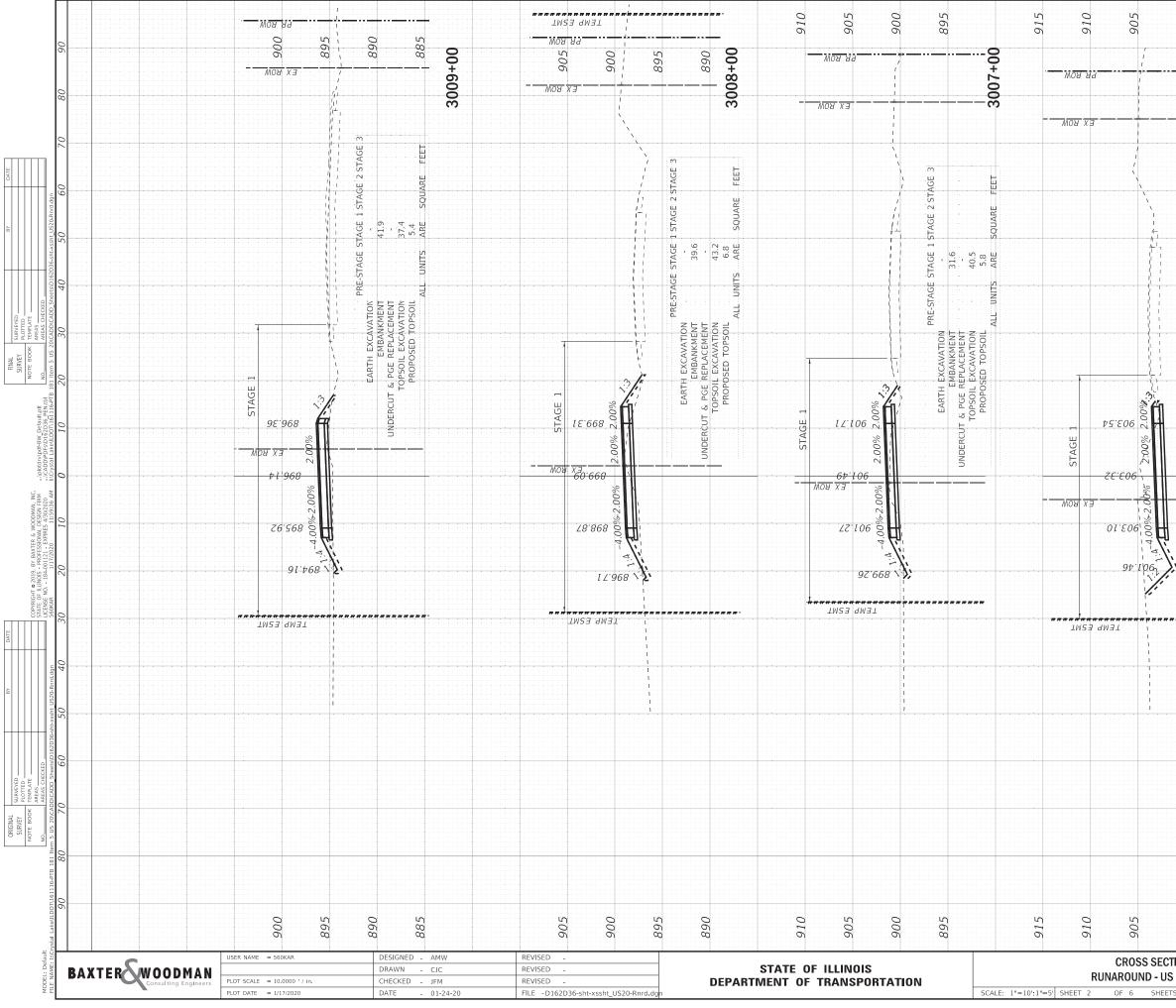
NOTES:

- 1. HALF OF THE SIGNS WILL REQUIRE A LEFT HAND FACING ARROW.
- 2. TWO SIGNS SHALL BE USED AT EACH COMMERCIAL ENTRANCE PLACED BACK-TO-BACK: ONE WITH A RIGHT HAND ARROW (SHOWN) SHALL BE PLACED ON THE NEAR RIGHT SIDE THE DRIVEWAY AND ONE WITH A LEFT HAND ARROW SHALL BE PLACED ON THE FAR LEFT SIDE OF THE DRIVEWAY.
- 3. SIGNS TO BE PAID FOR AS ITEM "TEMPORARY INFORMATION SIGNING".

187 - 187	FILE NAME =	USER NAME = gaglianobt	DESIGNED -	REVISED - C. JUCIUS 02-15-07			DRIVEWAY ENTRANCE SIG	NING	F.A	SECTION	COUNTY	TOTAL SHEET
°≓g Hu	c:\pw_work\pwidot\gaglianobt\d0108315\tc	26.dgn	DRAWN -	REVISED -	STATE OF ILLINOIS		DRIVEWAT ENTRANCE SIG	INING	525	2016-092B&R	MCHENRY	329 271
YRIU KAR		PLOT SCALE = 50.000 '/ in.	CHECKED -	REVISED -	DEPARTMENT OF TRANSPORTATION					TC-26	CONTRACT	NO.62D36
STA 560		PLOT DATE = 12/13/2012	DATE -	REVISED -		SCALE: NONE	SHEET NO. 1 OF 1 SHEETS STA.	. TO STA.	FED. ROAD	DIST. NO. 1 ILLINOIS FED. A		

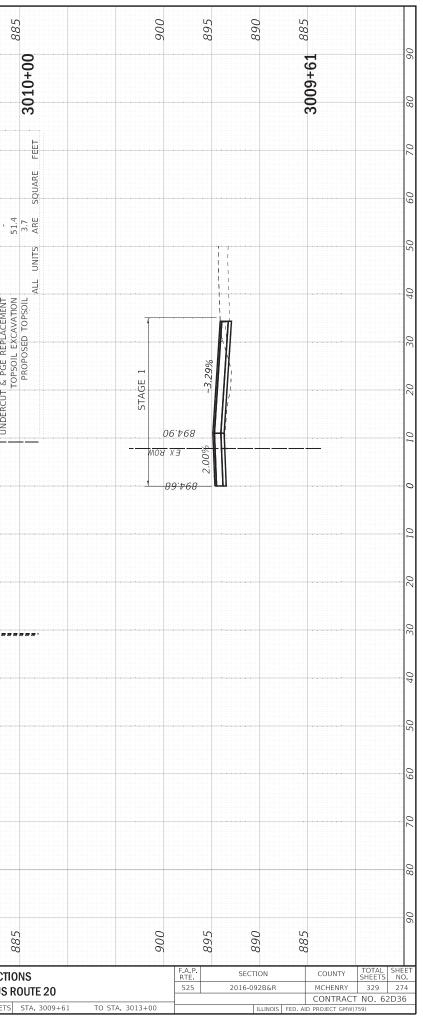


900 895	910	905	006	895	
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300				300	80
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			<u>V</u>		60
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					60
			1		70
					80
)5)5	0	15	Q)5	60
268 10NS	910	F.A.P. RTE. 525	SECTION		TOTAL SHEET SHEETS NO.
ROUTE 20 s sta. 3000+00 to st.	A. 3004+00	525	2016-092B		329 272 CT NO. 62D36 W(759)

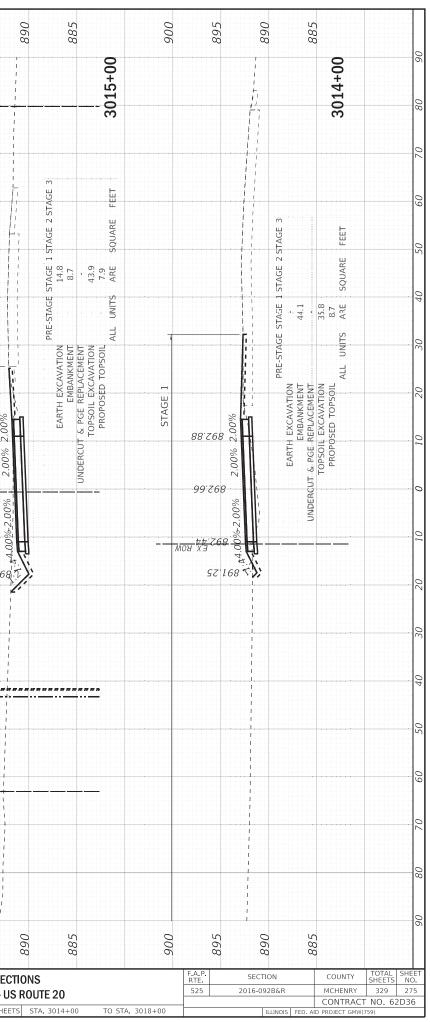


915 910 905 900	Ex #00W Exemple Involverun 3.1 Involverun<	3006+00 3006+00 915 915 910 905 900
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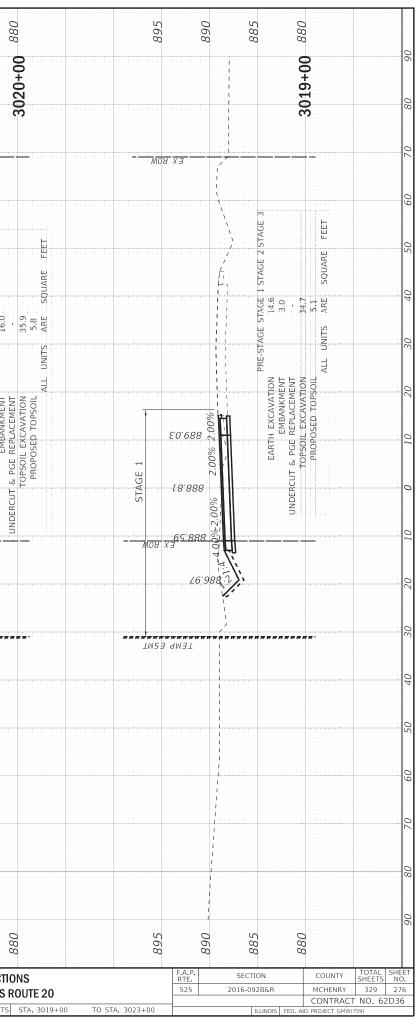
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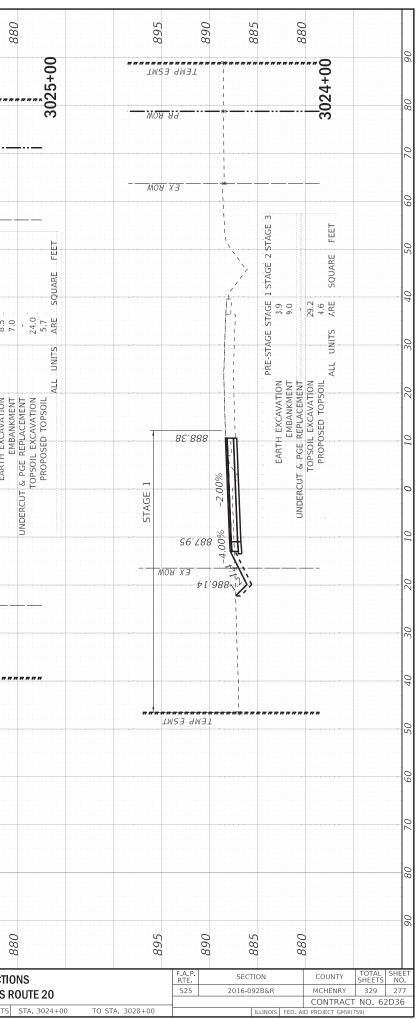
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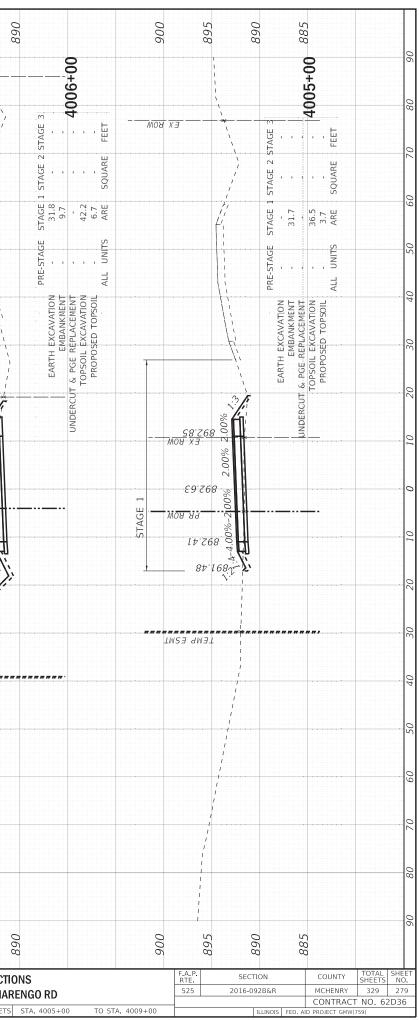


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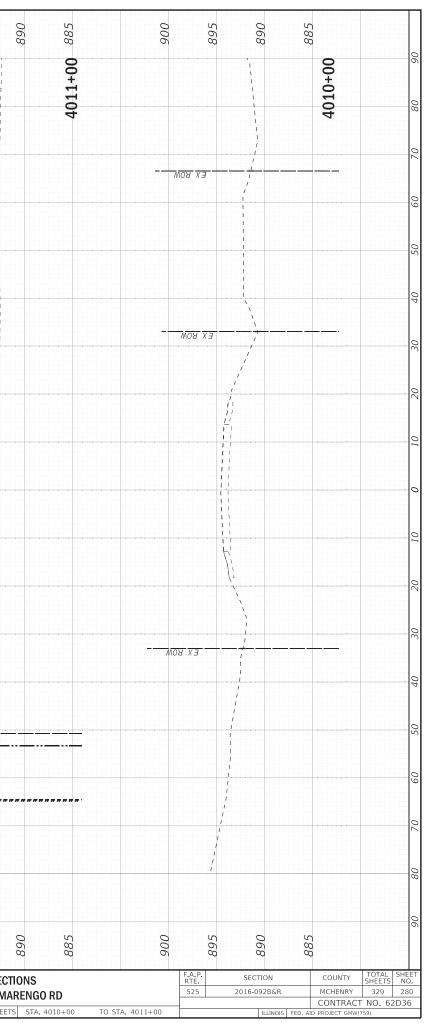




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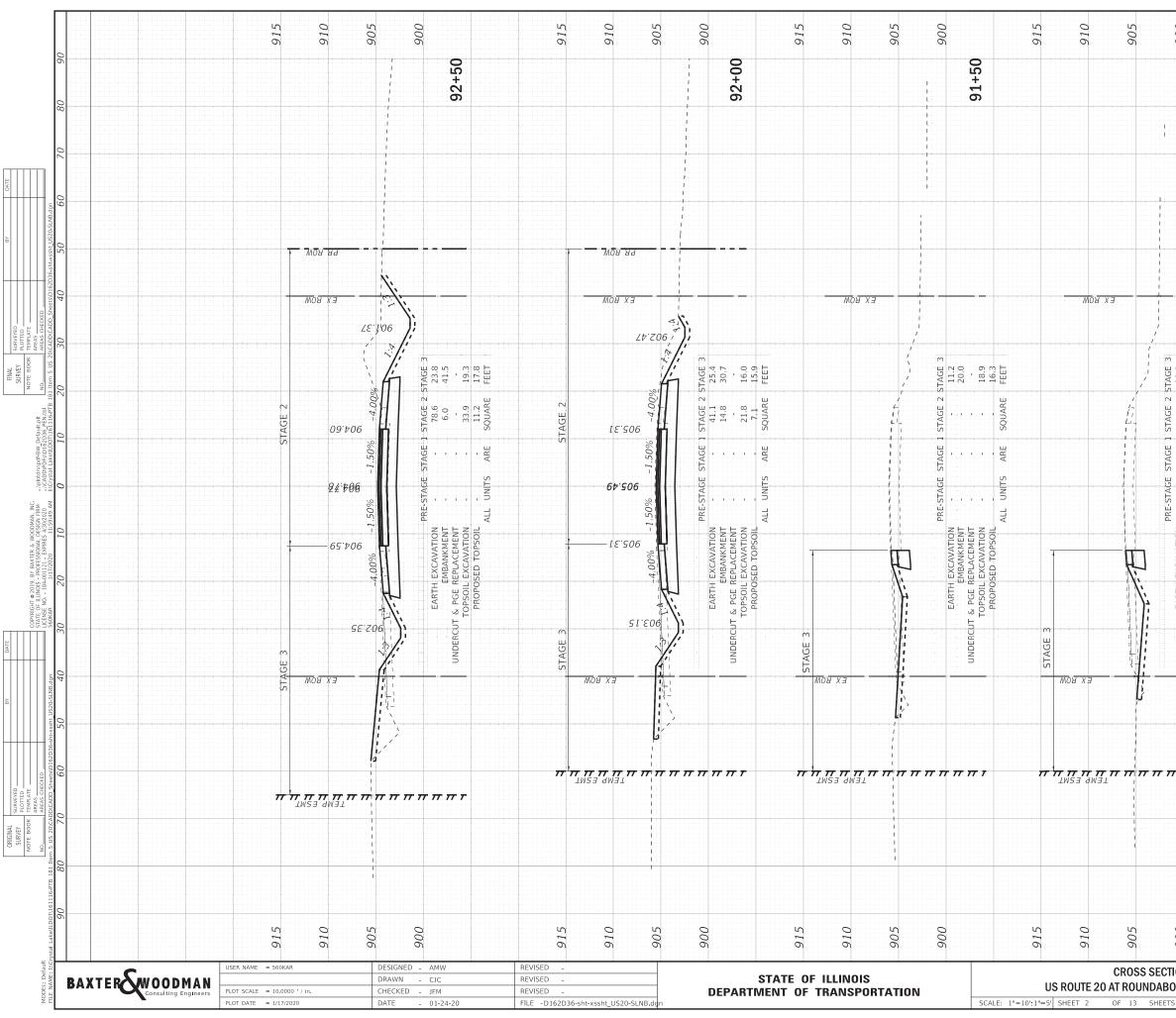


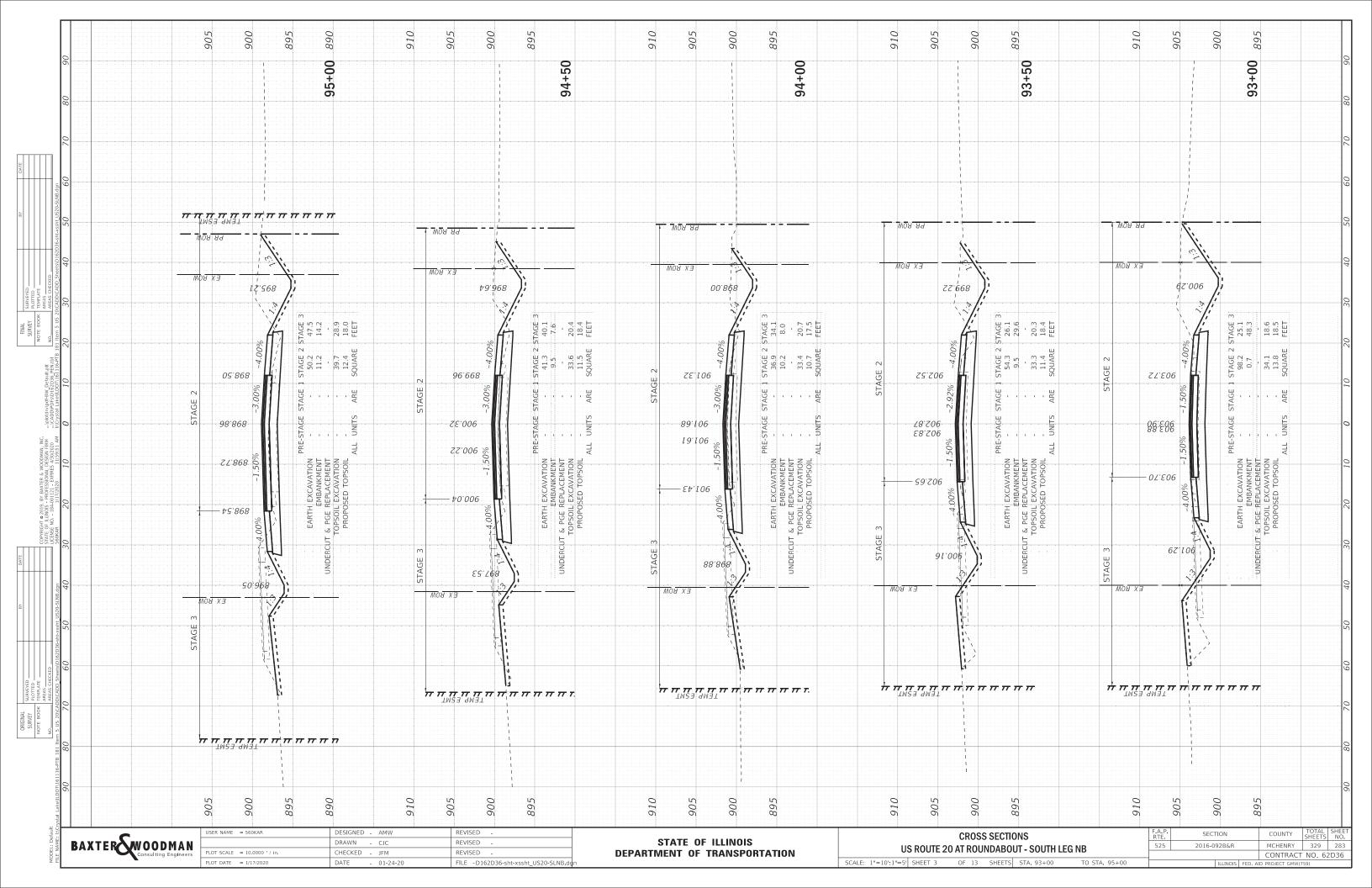
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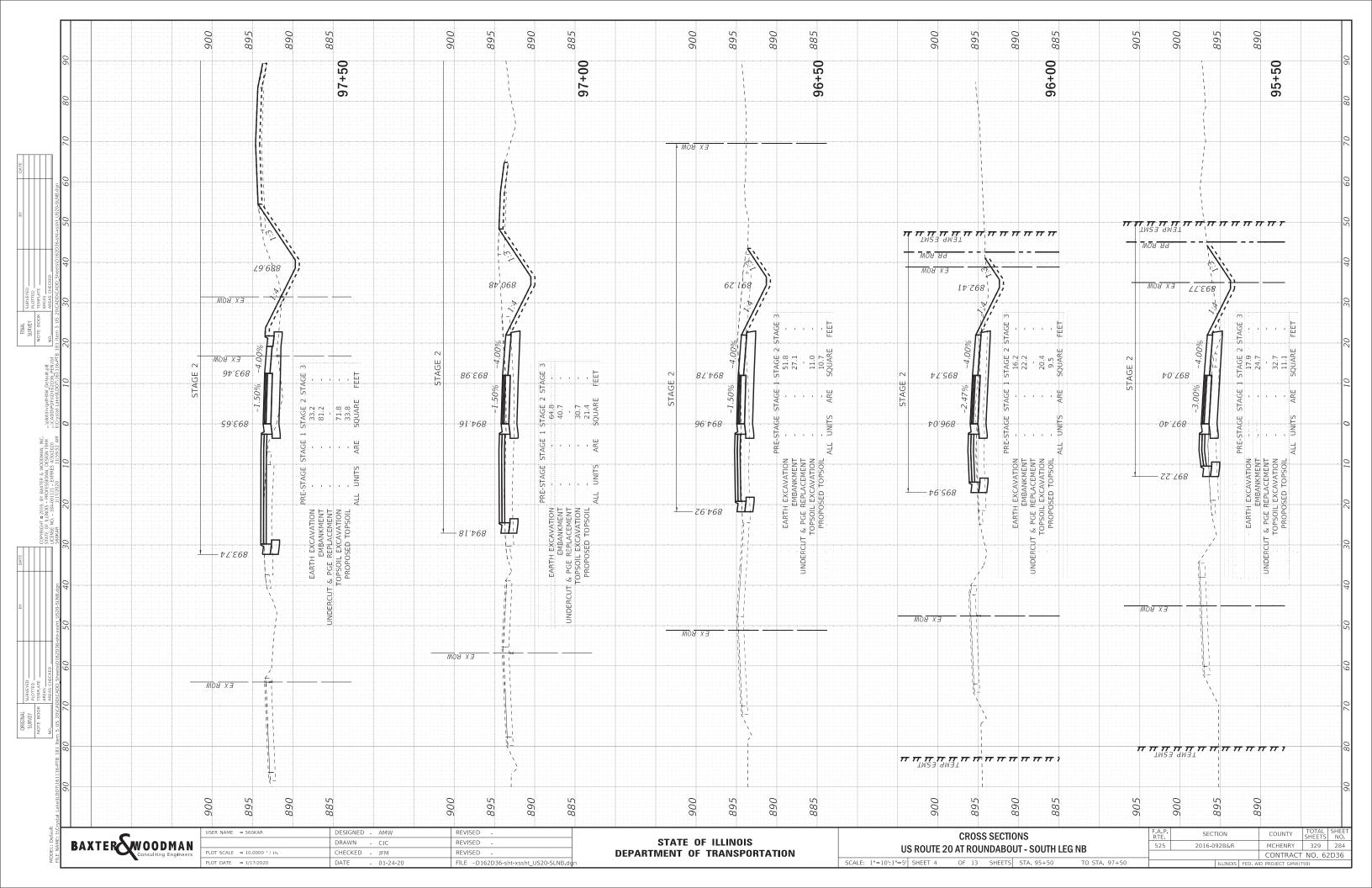


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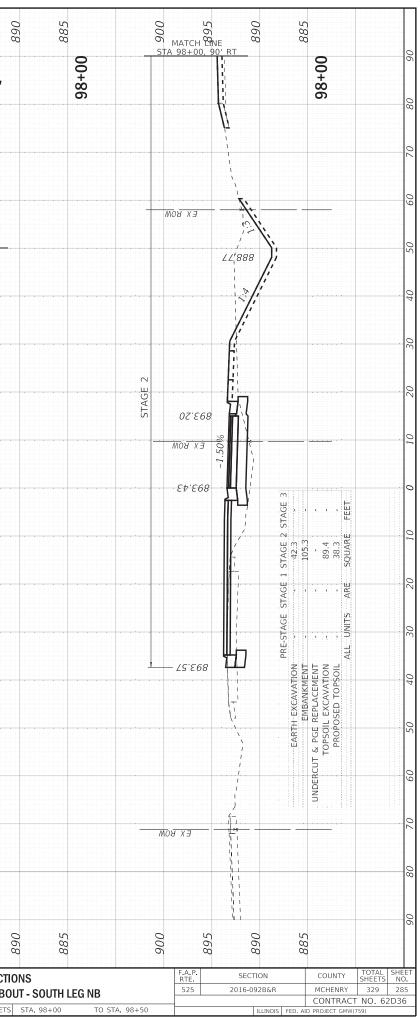
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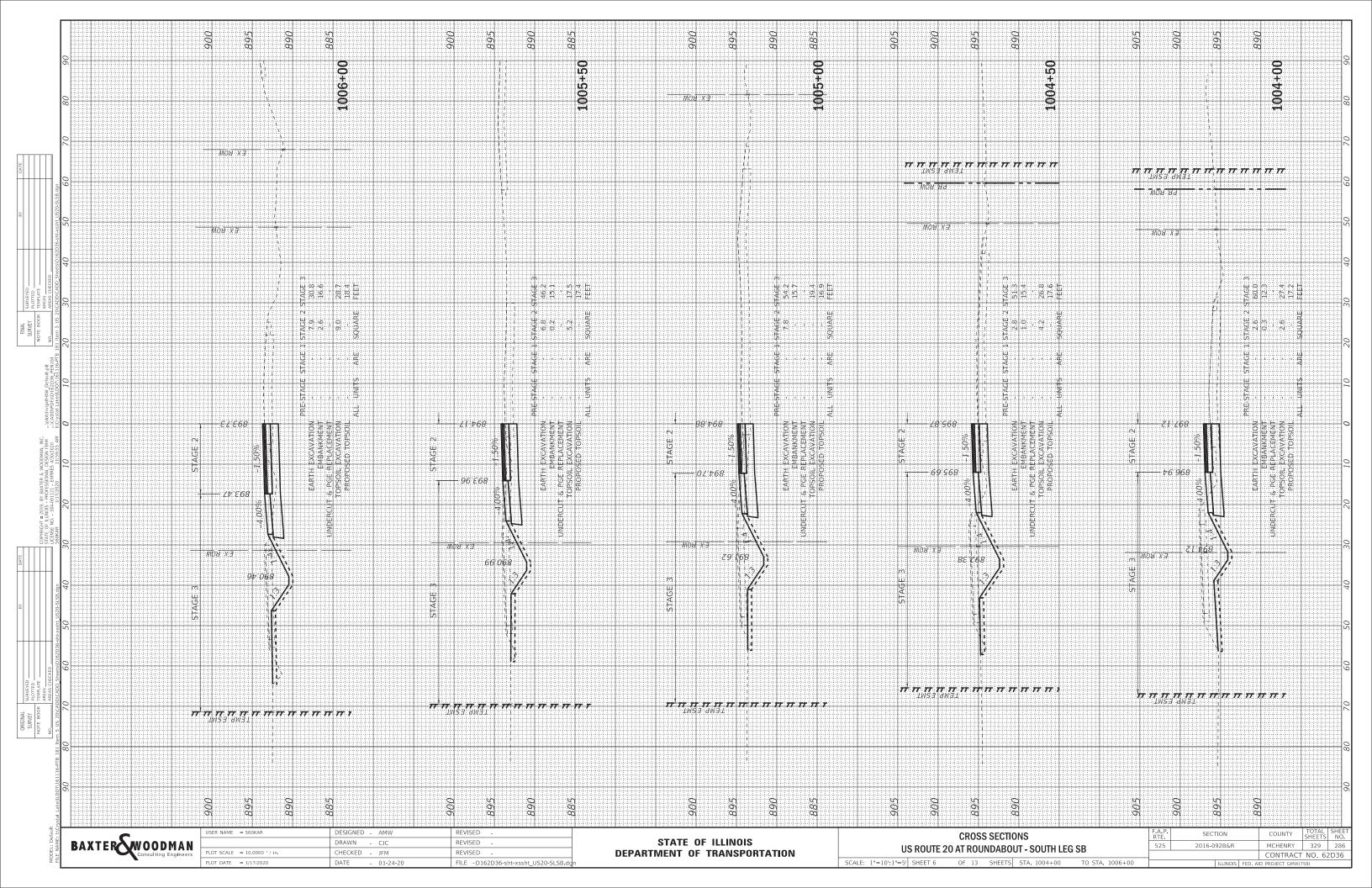




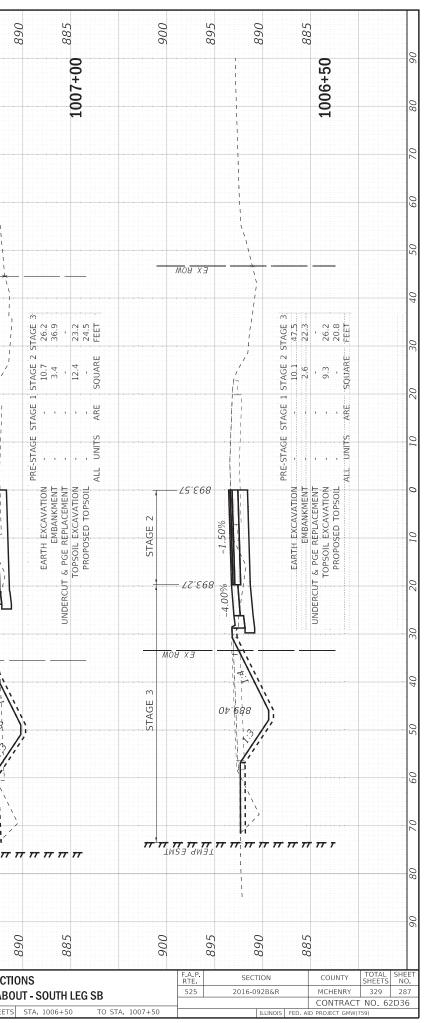


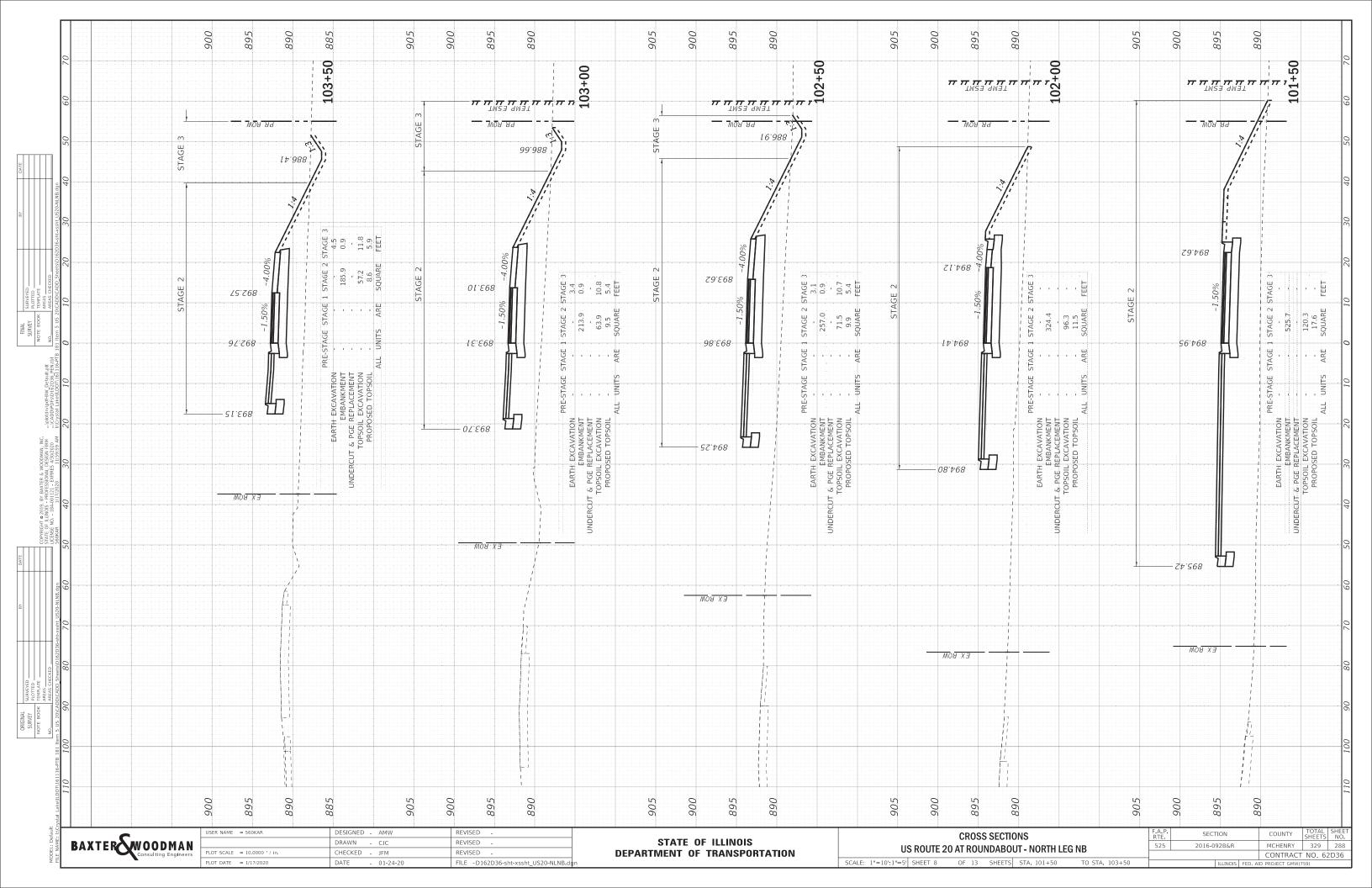
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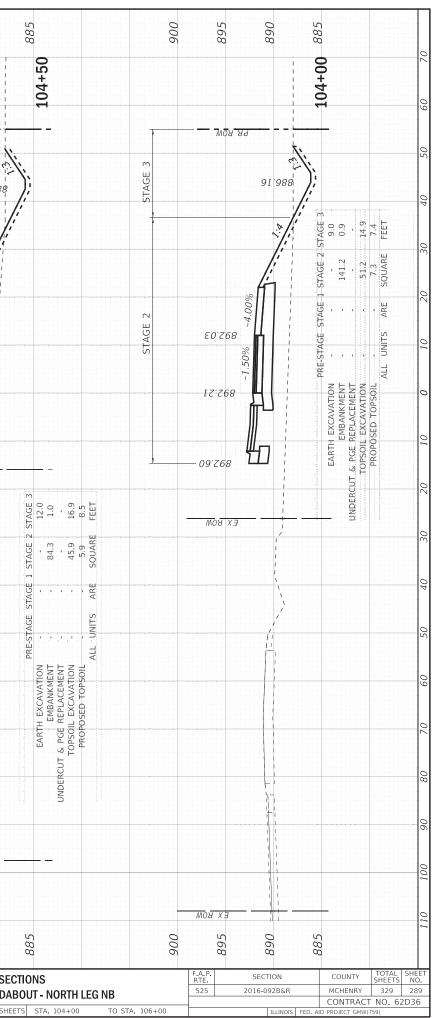


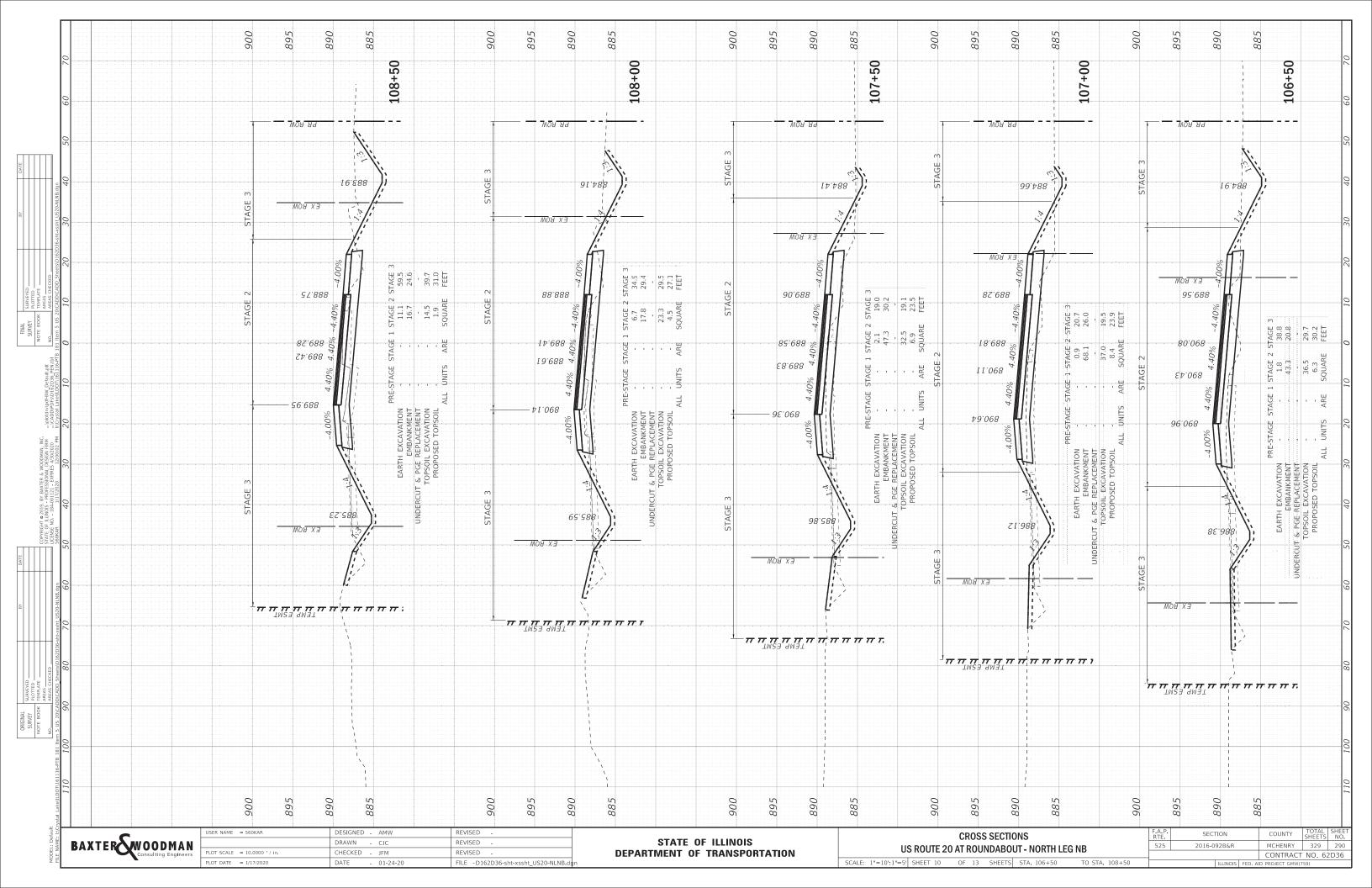
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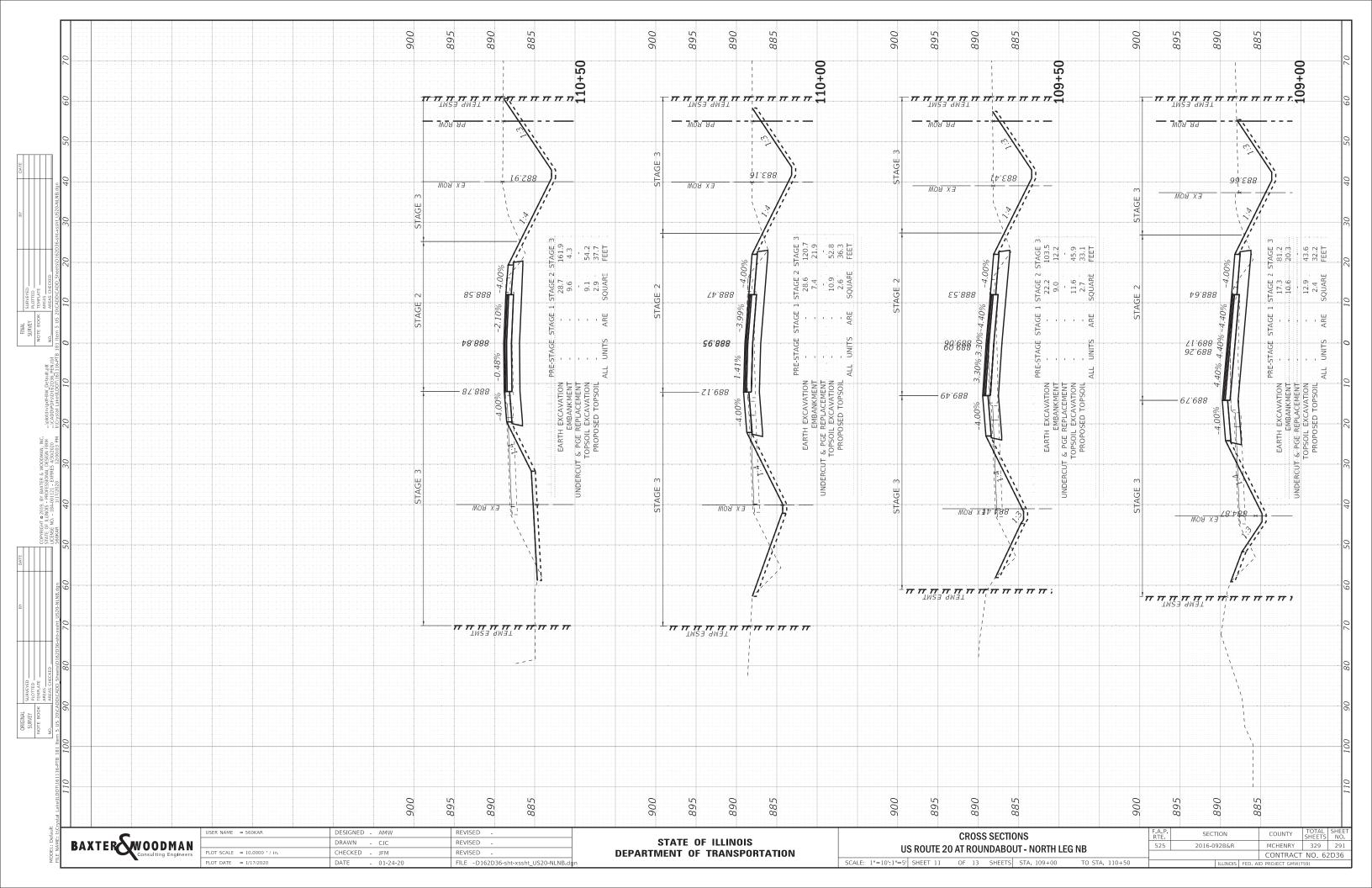


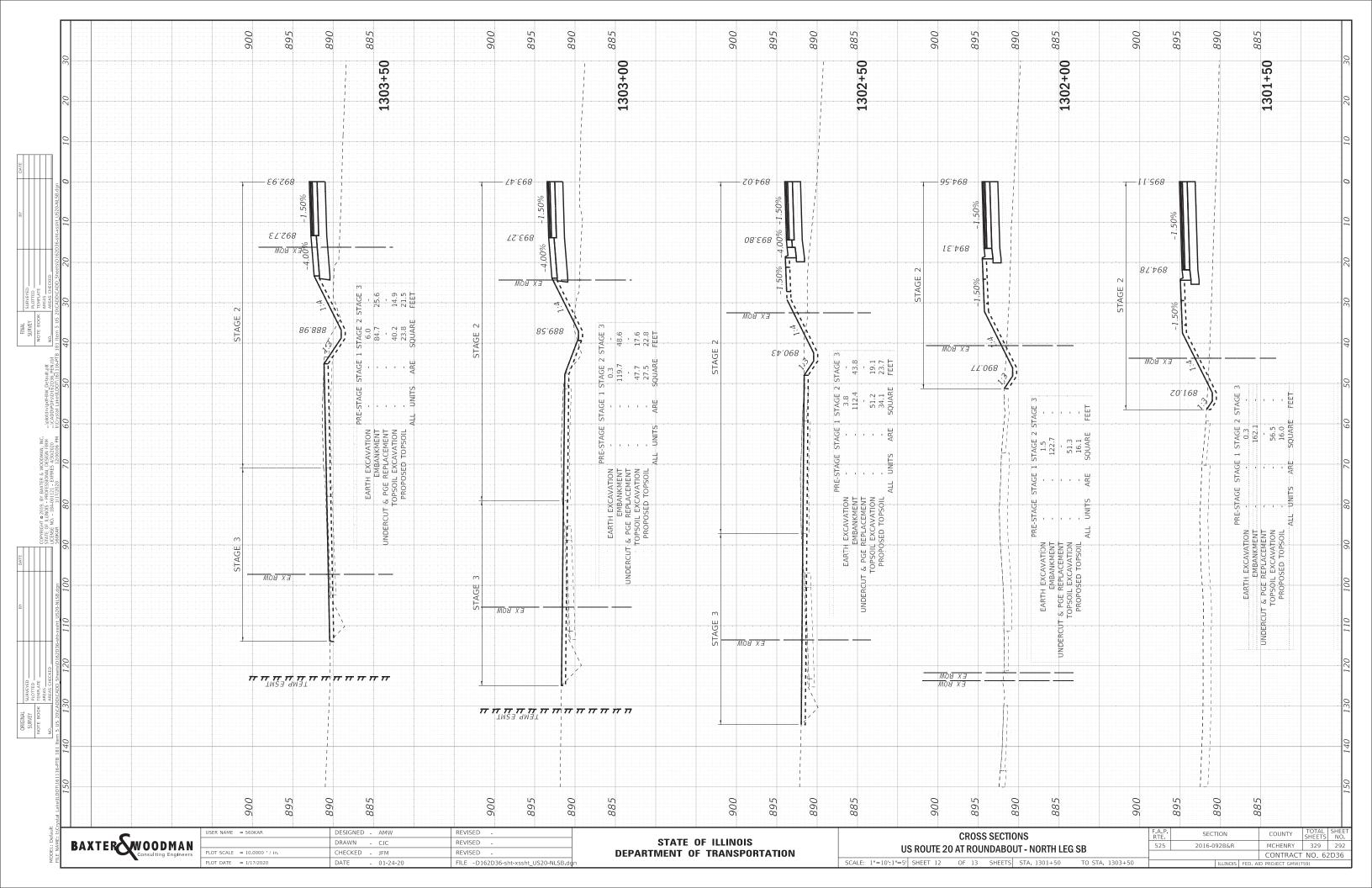


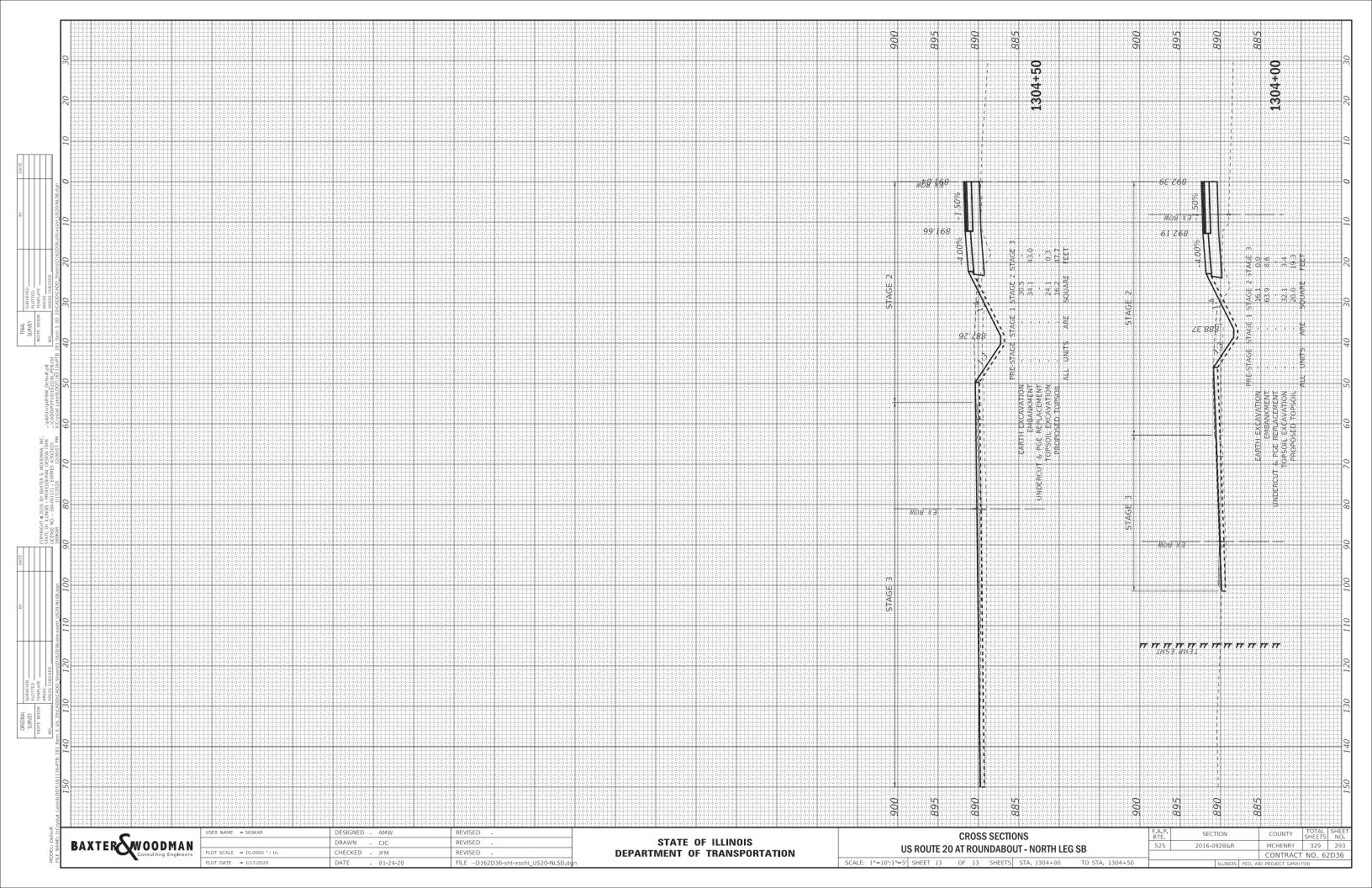
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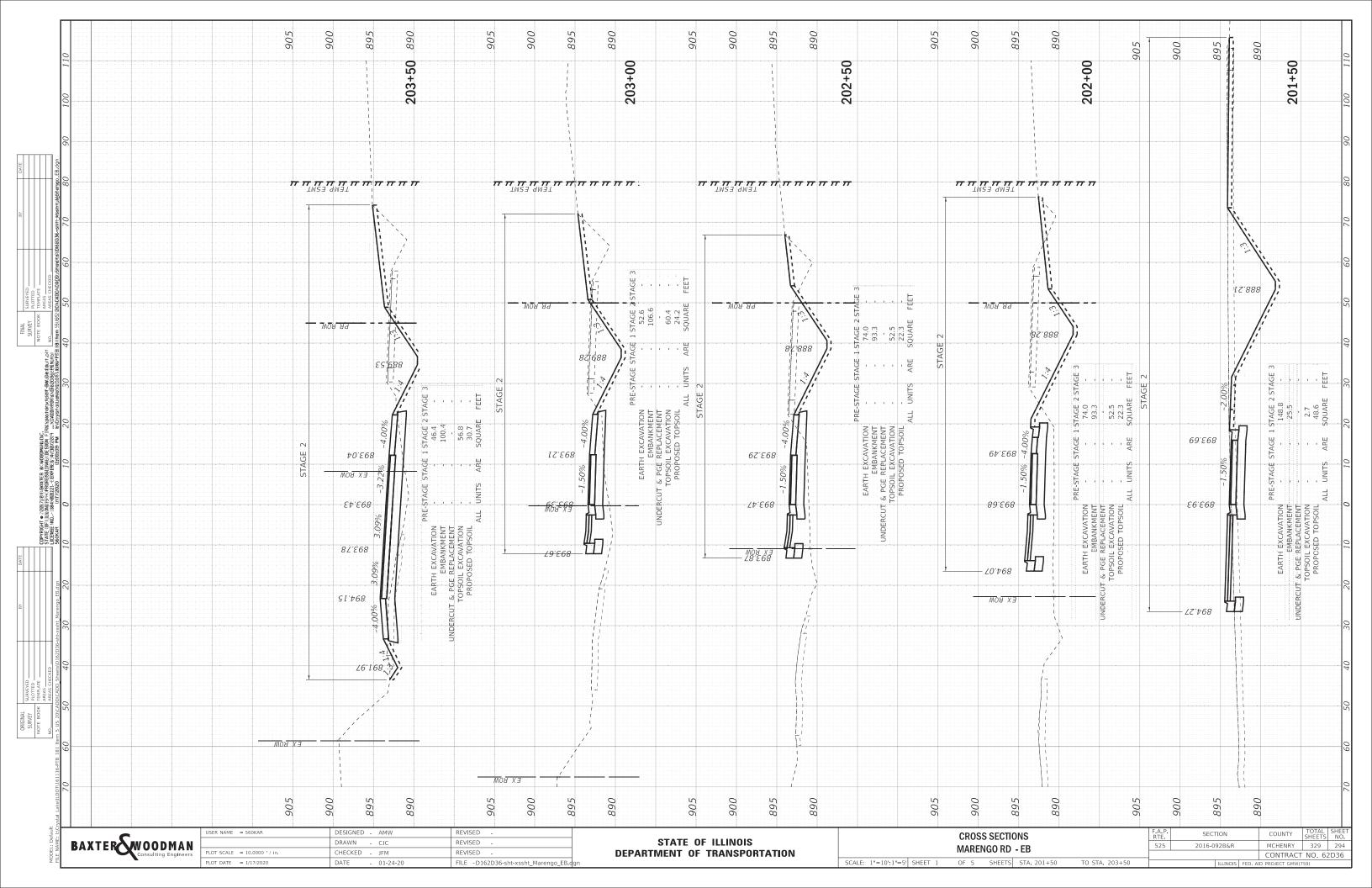


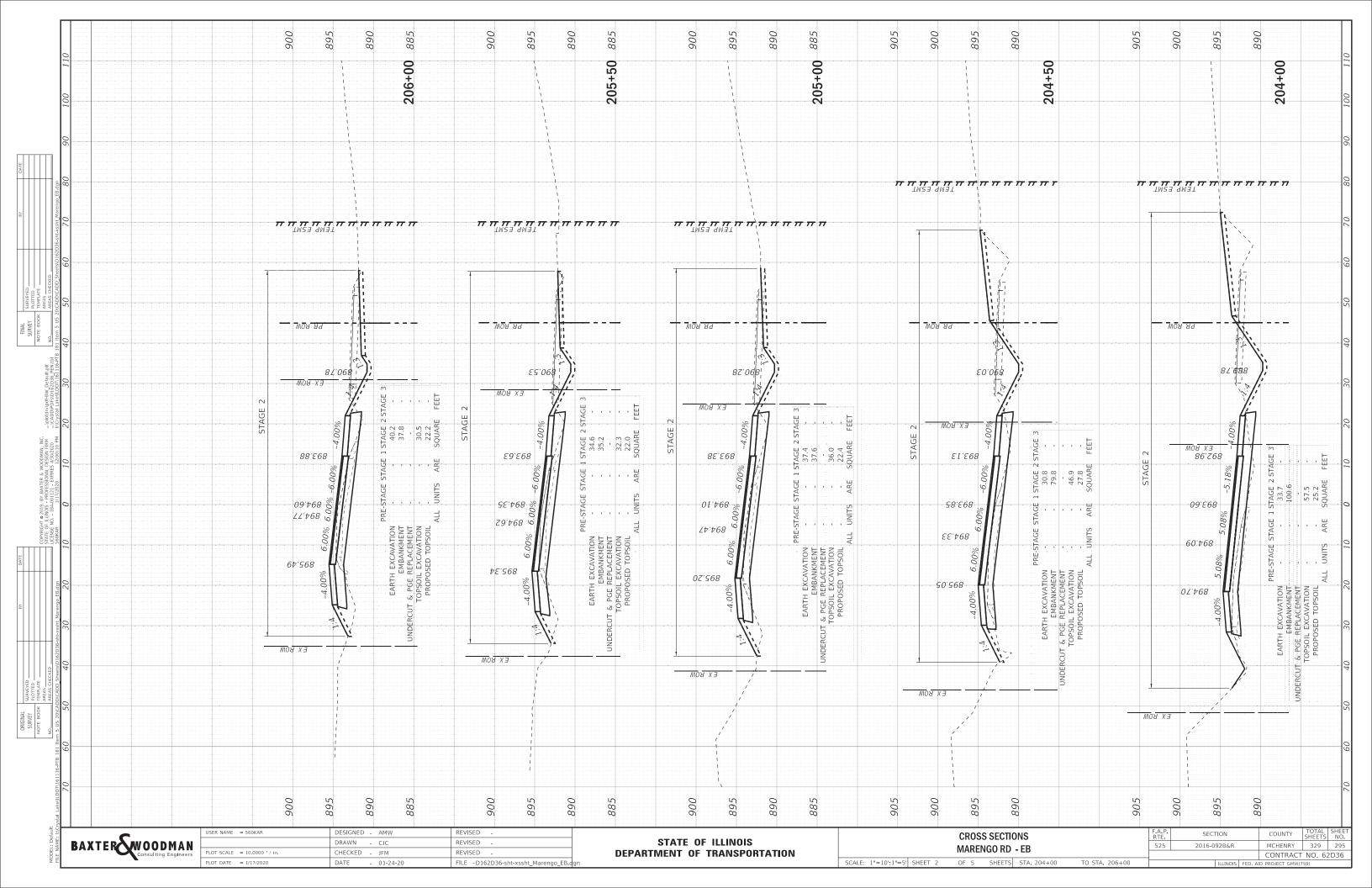


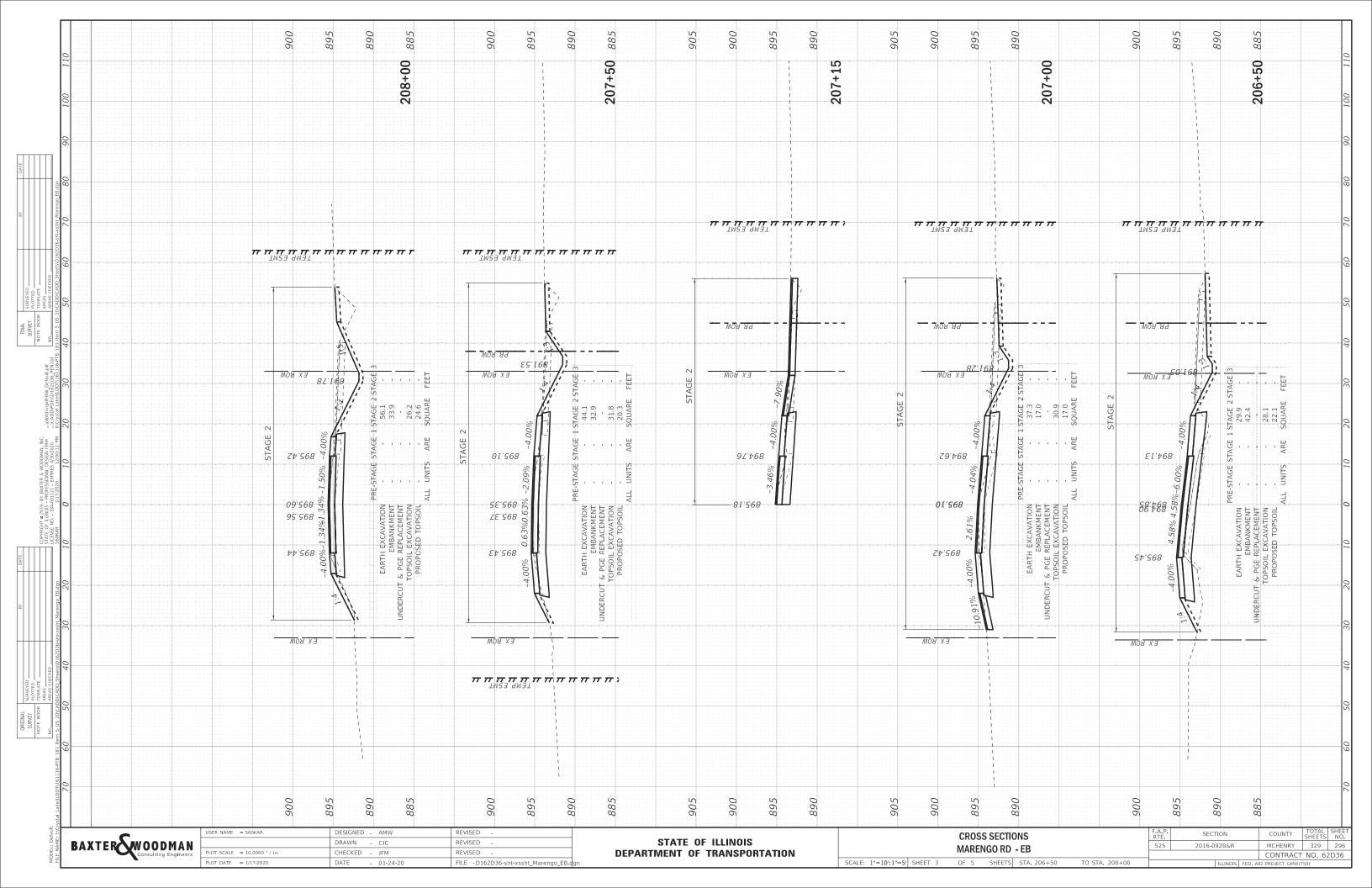


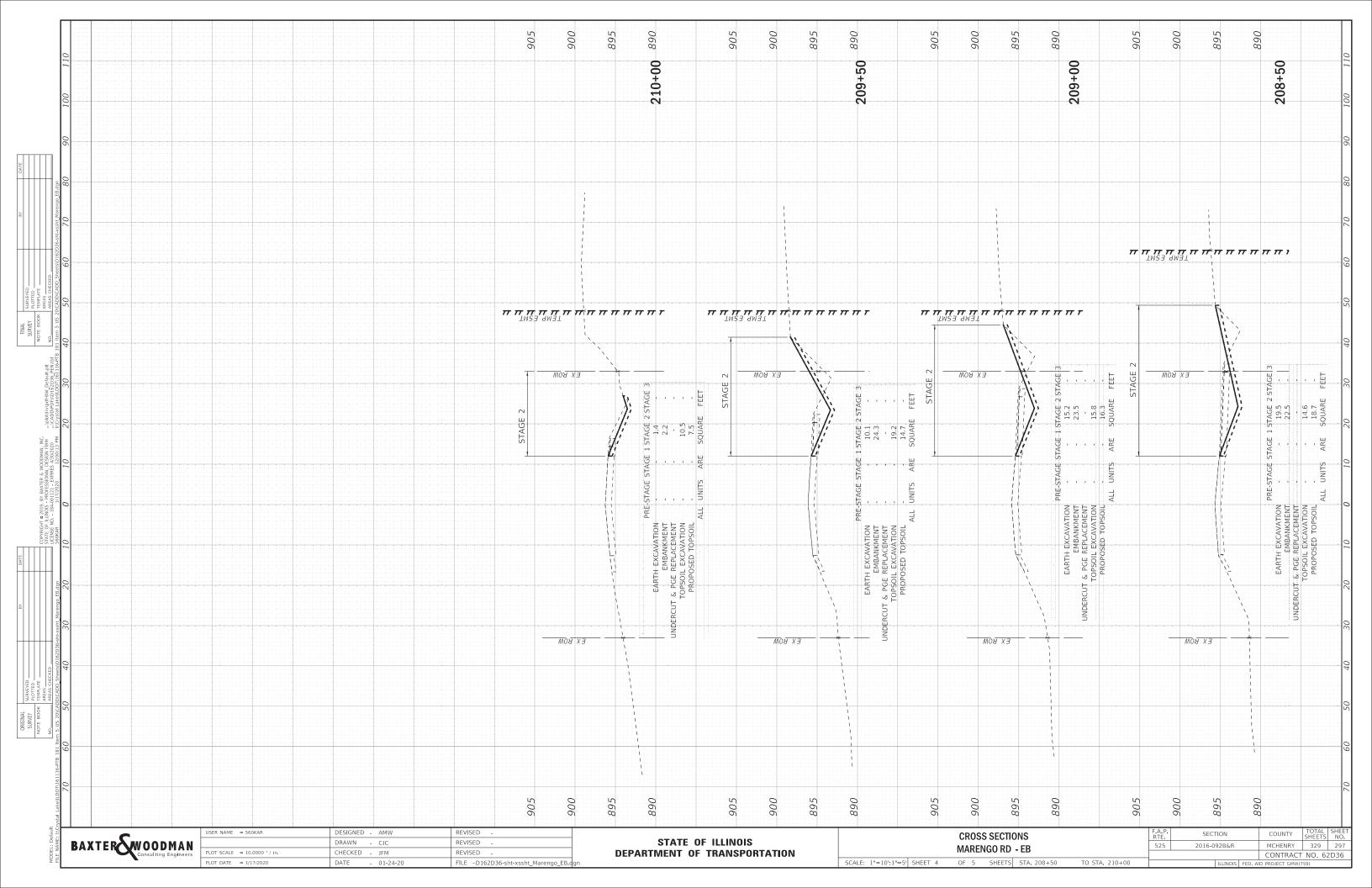


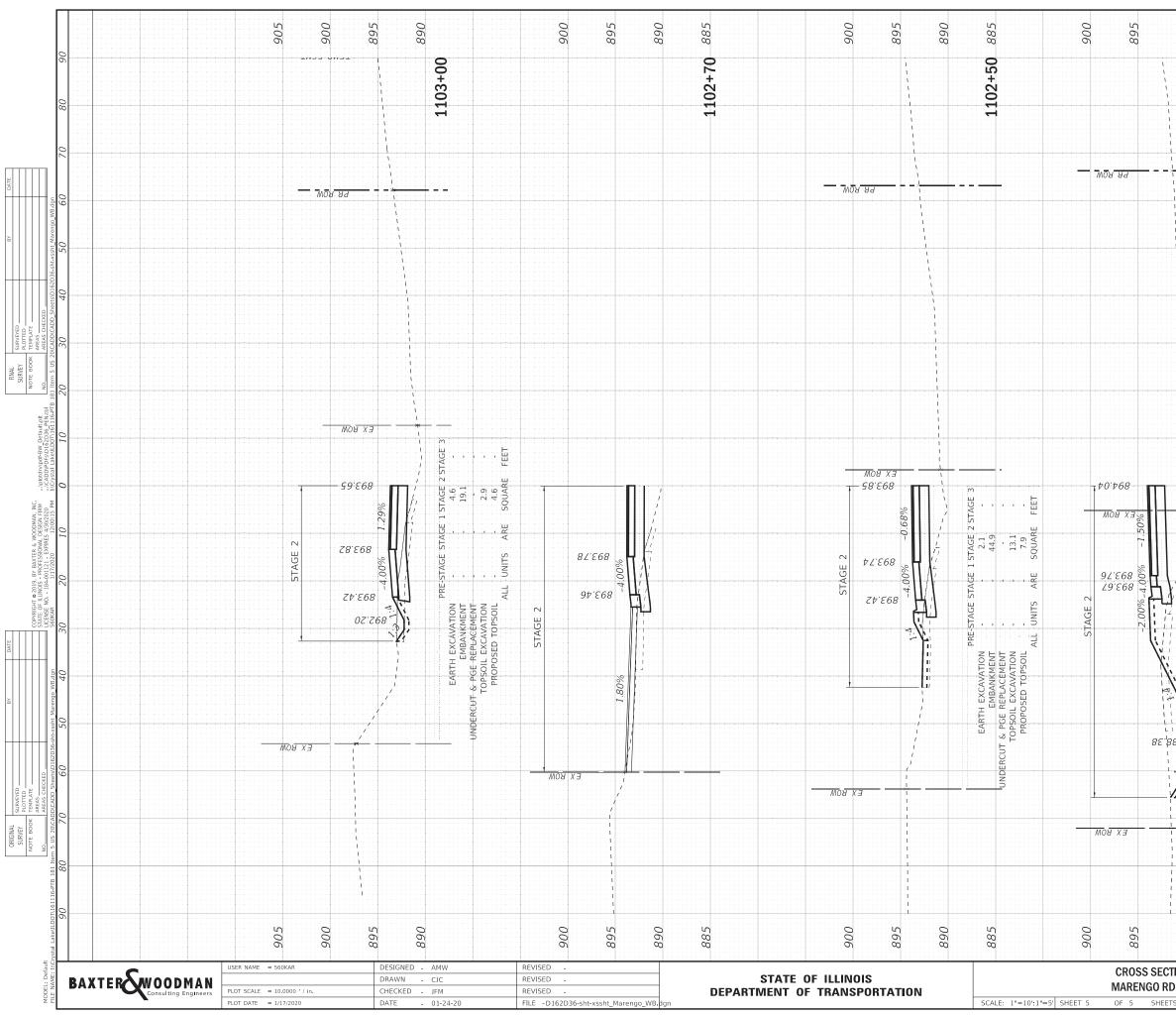




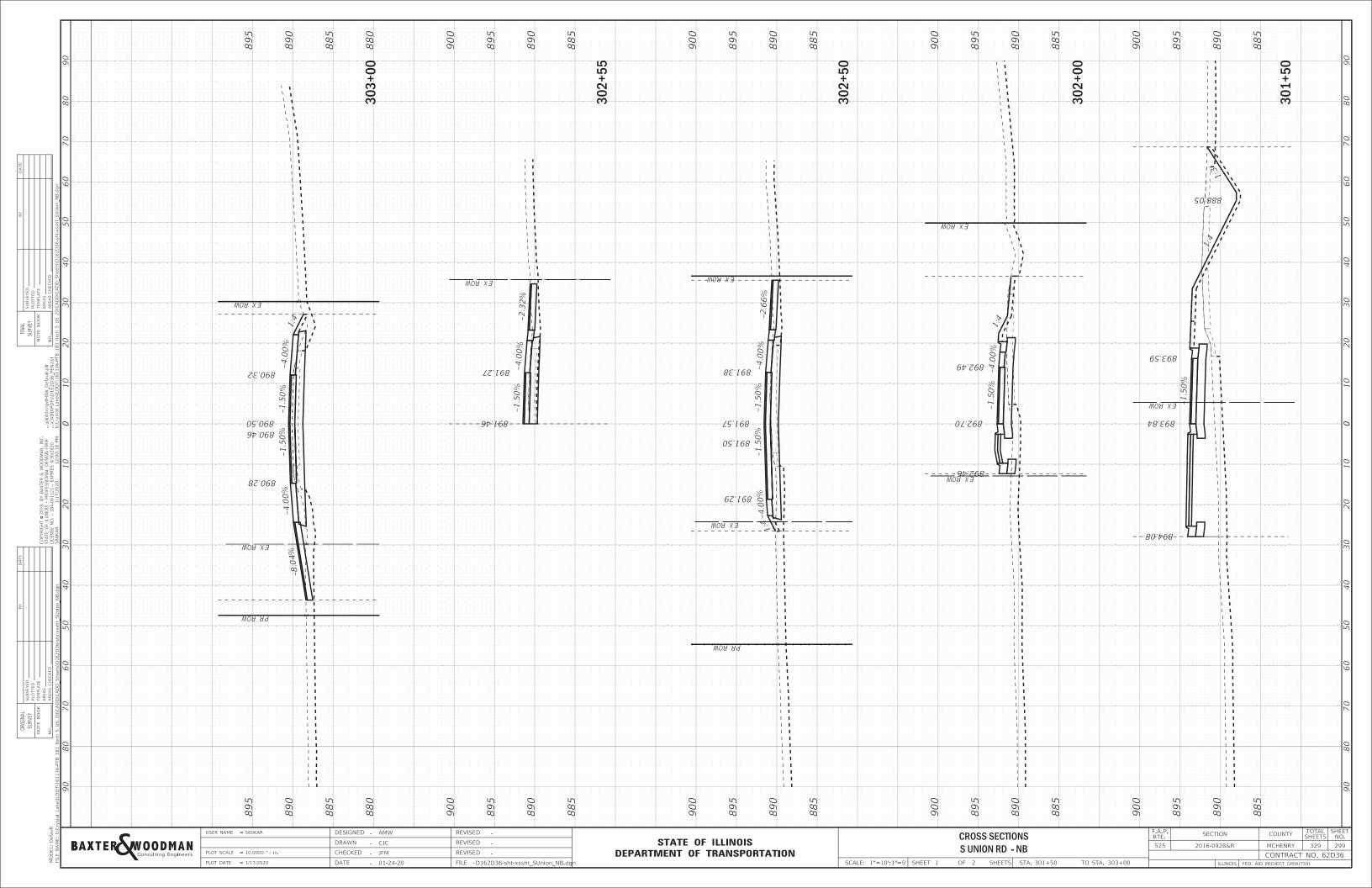








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