

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION
DIVISION OF HIGHWAYS

F.A.S. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
215	16-00110-00-BR	MERCER	25	1
FED. ROAD DIST. NO.	ILLINOIS	CONTRACT NO. 89719		

INDEX TO SHEETS

SHEET NO.	DESCRIPTION
1	COVER SHEET
2	GENERAL NOTES
3	SUMMARY OF QUANTITIES AND SCHEDULES
4-5	TYPICAL SECTIONS
6	ALIGNMENT, BENCHMARK, AND RIGHT OF WAY
7-8	DETOUR PLAN
9	REMOVAL PLAN
10-11	PLAN AND PROFILES
12-13	STORM WATER POLLUTION PREVENTION PLAN
14-18	STRUCTURAL PLANS
19-25	CROSS SECTIONS

PLANS FOR PROPOSED
SURFACE TRANSPORTATION PROGRAM – BRIDGE

PROJECT 4LS2(375)
SECTION 16-00110-00-BR
MERCER COUNTY
F.A.S. 215 (CH 16) OVER SNAKE CREEK
C-94-032-17



HIGHWAY STANDARD DETAIL PLANS

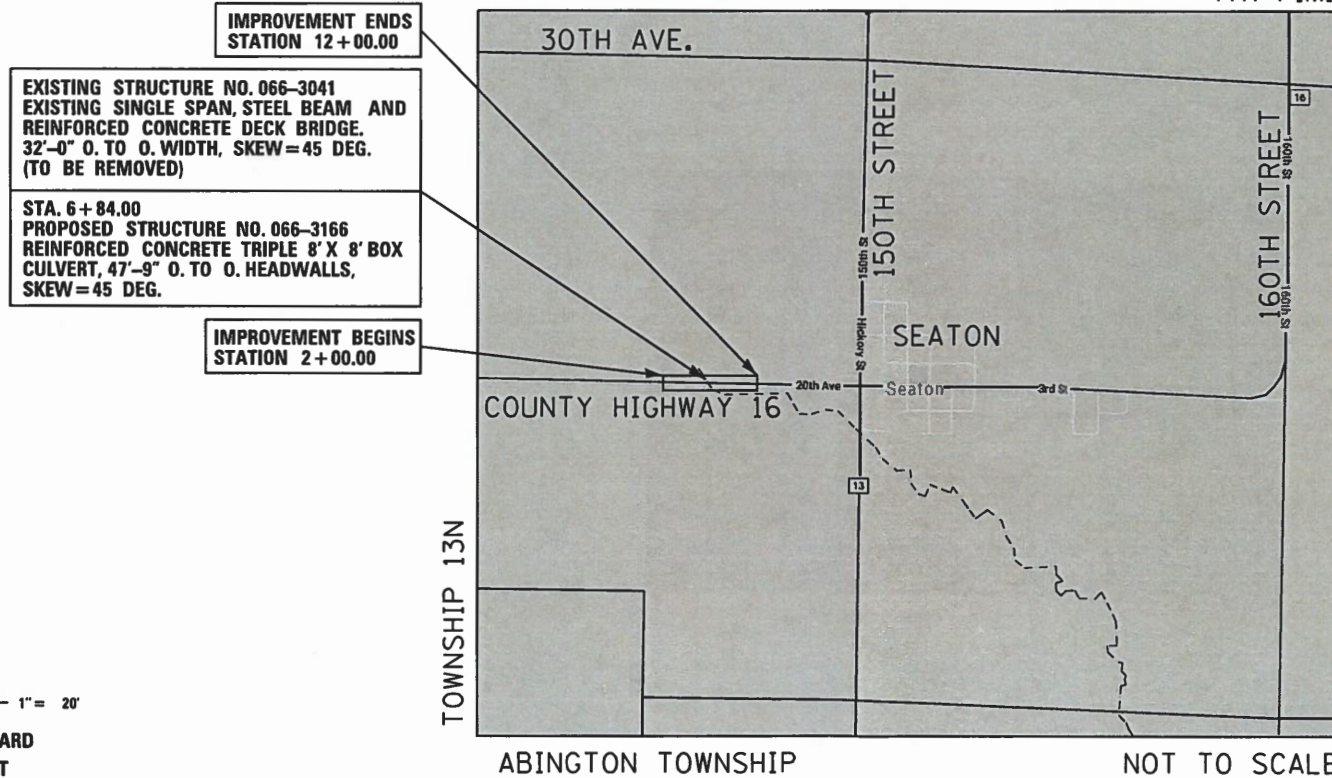
000001-07	515001-04
001001-02	701901-08
280001-07	BLR 22-7
420406	BLR 21-9

AVERAGE DAILY TRAFFIC (ADT)

FAS 215 (CH 16)
300 VPD (2014)

FUNCTIONAL CLASSIFICATION

MAJOR COLLECTOR - FAS 215 (CH 16)

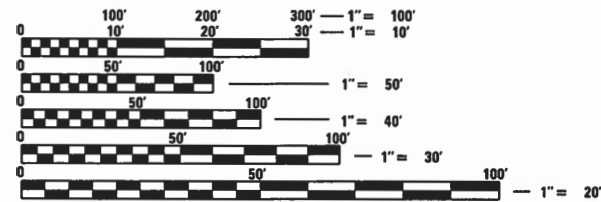


IMPROVEMENT ENDS
STATION 12+00.00

EXISTING STRUCTURE NO. 066-3041
EXISTING SINGLE SPAN, STEEL BEAM AND
REINFORCED CONCRETE DECK BRIDGE.
32'-0" O. TO O. WIDTH, SKEW=45 DEG.
(TO BE REMOVED)

STA. 6+84.00
PROPOSED STRUCTURE NO. 066-3166
REINFORCED CONCRETE TRIPLE 8' X 8' BOX
CULVERT, 47'-9" O. TO O. HEADWALLS,
SKEW=45 DEG.

IMPROVEMENT BEGINS
STATION 2+00.00



FULL SIZE PLANS HAVE BEEN PREPARED USING STANDARD
ENGINEERING SCALES. REDUCED SIZED PLANS WILL NOT
CONFORM TO STANDARD SCALES. IN MAKING MEASUREMENTS
ON REDUCED PLANS, THE ABOVE SCALES MAY BE USED.

J.U.L.I.E.
JOINT UTILITY LOCATION INFORMATION FOR EXCAVATION
1-800-892-0123 OR 811

MERCER COUNTY ENGINEER: RICK WALKER

CONTRACT NO. 89719
CATALOG NO. 035443-00

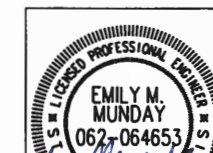
N
RANGE 4W



Leonardo Marcattelli
DATE SIGNED: 2/10/2020

LIC. EXP. DATE: 11/30/2020

STRUCTURAL ENGINEER'S SEAL
APPLIES TO PLAN SHEETS 14 TO 16.



Emily M. Munday
DATE SIGNED: 2/10/2020

LIC. EXP. DATE: 11/30/2021



APPROVED 2/18 2020
Rick Walker
LOCAL AGENCY OFFICIAL

PASSED 03-27 2020
James
DISTRICT FOUR ENGINEER OF LOCAL ROADS & STREETS

RELEASING FOR
BID BASED ON
LIMITED REVIEW March 27 2020
Ronald James
REGION 3 ENGINEER

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

GENERAL NOTES

- ALL ELEVATIONS SHOWN ON THE PLANS ARE BASED ON U.S.G.S. MEAN SEA LEVEL DATUM.
- ANY REFERENCE TO A STANDARD IN THESE PLANS SHALL BE INTERPRETED TO MEAN THE EDITION AS INDICATED BY THE SUBNUMBER SHOWN IN THE LIST OF STANDARDS OR THE COPY INCLUDED IN THESE PLANS.
- CONTRACTOR SHALL DISPOSE OF ALL CONSTRUCTION DEBRIS IN CONFORMANCE WITH CURRENT IEPA REGULATIONS.
- THE CONTRACTOR SHALL TAKE ALL NECESSARY SAFETY PRECAUTIONS TO PROTECT CONSTRUCTION WORKERS, ABUTTING PROPERTY, UTILITIES, PEDESTRIANS, AND VEHICLES.
- THE LOCATION OF DRAINAGE STRUCTURES, STORM SEWERS, WATER MAINS, SANITARY SEWERS, AND OTHER PUBLIC OR PRIVATE UTILITIES AS SHOWN ON THE PLANS IS APPROXIMATE AND THEIR EXACT LOCATION IS TO BE VERIFIED IN THE FIELD BY THE CONTRACTOR. THIS WORK SHALL BE PERFORMED AT NO ADDITIONAL COST TO THE CONTRACT.
- THE CONTRACTOR SHALL NOTIFY ALL UTILITY COMPANIES OF THE CONSTRUCTION SCHEDULE PRIOR TO BEGINNING CONSTRUCTION. THE CONTRACTOR IS RESPONSIBLE FOR PROTECTING THESE FACILITIES FROM DAMAGE DURING CONSTRUCTION OF THE IMPROVEMENTS. THE CONTRACTOR IS RESPONSIBLE FOR COORDINATING WITH UTILITY COMPANIES TO CAUSE THE ADJUSTMENT, RELOCATION, OR REMOVAL OF EXISTING UTILITIES AS NECESSARY TO ALLOW CONSTRUCTION OF THE PROPOSED IMPROVEMENTS IDENTIFIED IN THESE PLANS.
- ALL AREAS DISTURBED DURING CONSTRUCTION OPERATIONS AND NOT PART OF THE WORK AS SHOWN HEREIN SHALL BE RESTORED TO ORIGINAL CONDITION TO THE SATISFACTION OF MERCER COUNTY AT NO ADDITIONAL COMPENSATION TO THE CONTRACTOR. IT IS INCUMBENT UPON THE CONTRACTOR TO SHOW THAT DAMAGED AREAS WERE NOT DISTURBED BY CONSTRUCTION OPERATIONS.
- WHEN CONCRETE REMOVAL IS REQUIRED, IT MUST BE ACCOMPLISHED BY SAWCUT, SLEDGES, AND PNEUMATIC HAND TOOLS. EQUIPMENT AND METHODS USED MUST BE SUCH AS TO PREVENT CRACKING, SHATTERING, OR SPALLING OF CONCRETE THAT IS TO REMAIN. THE COST OF THIS WORK WILL NOT BE PAID FOR SEPARATELY, BUT SHALL BE INCLUDED IN THE UNIT BID PRICES OF THE CONTRACT.
- ALL HMA PAVEMENT SURFACE COURSES, CONCRETE BASE COURSES, CONCRETE PAVEMENTS, CURBS, GUTTERS, AND SIDEWALKS WHICH ARE TO BE REMOVED MUST BE SAWCUT AT THE LIMITS OF REMOVAL TO AVOID DAMAGE TO ADJACENT PROPERTIES.
- THE CONTRACTOR SHALL MAINTAIN SURFACE DRAINAGE OF THE ROAD THROUGHOUT THE CONSTRUCTION PROCESS.
- CONTRACTOR IS RESPONSIBLE FOR REMOVAL, STORAGE, AND RE-INSTALLATION OF ALL EXISTING SIGNAGE, BENCHES, SIDEWALK RAILINGS, AND OTHER ITEMS THAT ARE IMPACTED BY THIS CONTRACT AND ARE NOT SHOWN AS BEING REPLACED. THE CONTRACTOR IS RESPONSIBLE FOR REPLACING ANY OF THESE ITEMS THAT ARE DAMAGED AS A RESULT OF THIS CONTRACT AT NO ADDITIONAL COST. THE REMOVAL AND RE-INSTALLATION OF THESE ITEMS SHALL BE PERFORMED AT NO ADDITIONAL COST TO THE CONTRACT.
- EXISTING TRAFFIC CONTROL SIGNS AND DEVICES THAT ARE IN CONFLICT WITH CONSTRUCTION TRAFFIC CONTROL SIGNS AND DEVICES SHALL BE REMOVED OR COVERED BY THE CONTRACTOR ONCE THE CONSTRUCTION TRAFFIC CONTROL SYSTEM IS IN PLACE. ANY SIGNS OR DEVICES LEFT IN PLACE ARE TO BE PROTECTED FROM DAMAGE DURING CONSTRUCTION. ANY DAMAGED SIGNS OR DEVICES SHALL BE REPAIRED OR REPLACED BY THE CONTRACTOR.
- CARE MUST BE TAKEN FOR ANY EARTH EXCAVATION NEAR EXISTING TREES SO THAT DAMAGE TO THE TREE ROOTS DOES NOT OCCUR.
- ALL STATION AND OFFSET REFERENCES ARE TO THE ROADWAY CENTERLINE UNLESS OTHERWISE NOTED. THE STATE PLANE COORDINATE SYSTEM HAS BEEN USED FOR THE HORIZONTAL CONTROL.
- PLAN DIMENSIONS AND DETAILS RELATIVE TO THE EXISTING STRUCTURE HAVE BEEN TAKEN FROM FIELD SURVEYS AND ARE SUBJECT TO CONSTRUCTION VARIATIONS. IT SHALL BE THE CONTRACTOR'S RESPONSIBILITY TO VERIFY SUCH DIMENSIONS AND DETAILS IN THE FIELD. SUCH VARIATIONS SHALL NOT BE CAUSE FOR ADDITIONAL COMPENSATION.
- SEEDING SHALL NOT BE PERMITTED AT ANY TIME WHEN THE GROUND IS FROZEN, WET, OR IN AN UNTILLABLE CONDITION.
- THE CONTRACTOR MUST CONTACT J.U.L.I.E. AT LEAST 48 HOURS BEFORE EXCAVATING ANY MATERIAL OR BORING OPERATIONS. THE FOLLOWING UTILITY COMPANIES HAVE BEEN CONTACTED AND THEIR EXISTING FACILITIES ARE SHOWN ON THESE PLANS BASED ON RECORD DRAWINGS AND FIELD SURVEYS.

FRONTIER COMMUNICATIONS; KALIN HINSHAW (815-895-1515)

AMEREN ILLINOIS; MARTIN FULLER (618-236-6281)

DISTRICT FOUR GENERAL NOTES

- THE MERCER COUNTY HIGHWAY DEPARTMENT SHOULD BE CONTACTED AND PRIOR APPROVAL OBTAINED FOR ANY TREE REMOVAL BEYOND THE LIMITS/LOCATIONS INCLUDED IN THE PLANS. (201.04)
- THE CONTRACTOR SHALL CONSULT WITH THE ENGINEER IN REGARD TO THE EXACT LENGTH OF THE BOX/PIPE CULVERTS, STORM SEWERS, AND/OR PIPE DRAINS REQUIRED PRIOR TO ORDERING THESE ITEMS. (542.00)
- PRIOR TO THE USE OF ANY PROPOSED BORROW AREAS, USE AREAS (TEMPORARY ACCESS ROADS, DETOURS, RUN-AROUNDS, ETC.) AND/OR WASTE AREAS, THE CONTRACTOR SHALL FILE THE REQUIRED ENVIRONMENTAL RESOURCE REQUEST SURVEYS ACCORDING TO SECTION 107.22 OF THE STANDARD SPECIFICATIONS. THESE SURVEYS ARE REQUIRED IN ORDER FOR THE DEPARTMENT TO CONDUCT CULTURAL AND BIOLOGICAL RESOURCE SURVEYS FOR THE PROPOSED SITE.

THE REQUIRED ENVIRONMENTAL RESOURCE DOCUMENTATION SHALL INCLUDE THE FOLLOWING:

- BDE FORM 2289 (CULTURAL AND NATURAL RESOURCES REVIEW OF BURROW AREAS)
- BDE FORM 2290 (WASTE/USE AREA REVIEW)
- A LOCATION MAP SHOWING THE SIZE LIMITS AND LOCATION OF THE USE AREA
- COLOR PHOTOGRAPHS DEPICTING THE USE AREA
- BORROW AREA ENTRY AGREEMENT FORM - D4 P10101

PRIOR TO ANY WASTE MATERIALS BEING REMOVED FROM THE CONSTRUCTION SITE THE REQUIRED ENVIRONMENTAL RESOURCE SURVEYS SHALL BE OBTAINED AND FILED BY THE CONTRACTOR. EXCESS WASTE PRODUCTS REMOVED FROM THE CONSTRUCTION SITE SHALL BE DISPOSED OF AS REQUIRED IN SECTION 202.03 OF THE STANDARD SPECIFICATIONS.

ANY PROTRUDING METAL BARS SHALL BE REMOVED PRIOR TO THE DISPOSAL OF BROKEN CONCRETE AT APPROVED DISPOSAL SITES.

PLEASE NOTE THAT A MINIMUM OF FOUR WEEKS SHALL BE ALLOWED FOR THE DISTRICT TO OBTAIN THE REQUIRED WASTE SITE ENVIRONMENTAL CLEARANCES AND SIX WEEKS FOR THE REQUIRED BORROW SITE ENVIRONMENTAL CLEARANCES. (204.00)

PAVEMENT DESIGN

COUNTY HIGHWAY 16
 CLASS II ROAD, DESIGN PERIOD = 20 YRS
 SDT = 570 VPD, TRAFFIC FACTOR = 0.152
 7" FULL DEPTH HMA OVER 12" AGGREGATE BASE COURSE

HMA MIXTURE REQUIREMENTS TABLE

THE FOLLOWING HMA REQUIREMENTS ARE APPLICABLE FOR THIS PROJECT:

LOCATION(S):	COUNTY HIGHWAY 16		
MIXTURE USE(S):	POLYMERIZED SURFACE	POLY. BINDER TOP LIFT	BINDER LOWER LIFT
PG:	SBS OR SBR PG 58-28	SBS OR SBR PG 58-28	PG 64-22
DESIGN AIR VOIDS:	4.0% @ N50	4.0% @ N50	4.0% @ N50
MIXTURE COMPOSITION: (MIXTURE GRADATION)	IL-9.5	IL-9.5	IL-19.0
FRICTION AGGREGATE:	MIX C	N/A	N/A
MIXTURE WEIGHT:	116 LB/SQ YD/IN	116 LB/SQ YD/IN	116 LB/SQ YD/IN
QUALITY MANAGEMENT PROGRAM:	QC/OA	QC/OA	QC/OA
SUBLOT SIZE:	N/A	N/A	N/A
NUMBER OF ROLLER PASSES:	N/A	N/A	N/A
THICKNESS:	1 1/2"	1 1/2"	4"

NOTE: BITUMINOUS MATERIALS (TACK COAT) RATE SHALL BE 0.08 LBS/SF FOR ALL LIFTS.

COMMITMENTS

- ANY FIELD TILES DAMAGED DURING CONSTRUCTION SHALL BE REPLACED WITH A PLASTIC PIPE OF MATCHING SIZE BY THE CONTRACTOR AT NO ADDITIONAL COST TO THE CONTRACT. ANY FIELD TILES NOT SHOWN ON THE PLANS WHICH REQUIRE ADJUSTMENT SHALL BE ADJUSTED BY THE CONTRACTOR AT NO ADDITIONAL COST TO THE CONTRACT.

PAVEMENT SCHEDULE						
LOCATION		31101000	40200900	40600275	40700100	40701821
		SUBBASE GRANULAR MATERIAL, TYPE B	AGGREGATE SURFACE COURSE, TYPE B	BITUMINOUS MAT. (PRIME COAT)	BITUMINOUS MAT. (TACK COAT)	HOT-MIX ASPHALT PAVEMENT (FULL-DEPTH), 7"
STATION	TO STATION	TON	CU YD	POUND	POUND	SQ YD
2+00.00	6+65.14	847.6		2558.3	1637.3	1137.0
6+65.14	7+02.86	68.7		207.5	132.8	92.2
7+02.86	12+00.00	905.9		2734.3	1749.9	1215.2
5+40.42, RT			43.0			
10+19.38, LT			43.0			
TOTAL		1822	86	5500	3520	2444



MODEL NAME =	DESIGNED - LM/EM	REVISED -
FILE NAME =	DRAWN - EMM	REVISED -
PLOT SCALE = 2.0000' / in.	CHECKED - E.J.H.	REVISED -
PLOT DATE = 2/19/2020 8:30:43 AM	DATE - NOVEMBER 2018	REVISED -

**MERCER COUNTY HIGHWAY DEPARTMENT
 MERCER COUNTY, ILLINOIS**

**COUNTY HIGHWAY 16 STRUCTURE REPLACEMENT
 GENERAL NOTES**

SCALE: SHEET 1 OF 1 SHEETS STA. TO STA.

F.A.S. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
215	16-00110-00-BR	MERCER	25	2
CONTRACT NO. 89719				
ILLINOIS FED. AID PROJECT				

SUMMARY OF QUANTITIES

PAY ITEM NO.	DESCRIPTION	UNIT	BID QUANTITY
20101000	TEMPORARY FENCE	FOOT	620
20200100	EARTH EXCAVATION	CU YD	1,027
20300100	CHANNEL EXCAVATION	CU YD	207
20700220	POROUS GRANULAR EMBANKMENT	CU YD	709
21001000	GEOTECHNICAL FABRIC FOR GROUND STABILIZATION	SQ YD	3,188
21101615	TOPSOIL FURNISH AND PLACE, 4"	SQ YD	3,851
25000210	SEEDING, CLASS 2A	ACRE	0.8
25100630	EROSION CONTROL BLANKET	SQ YD	3,851
28000305	TEMPORARY DITCH CHECKS	FOOT	64
28000400	PERIMETER EROSION BARRIER	FOOT	1,009
28100109	STONE RIPRAP, CLASS A5	SQ YD	190
28200200	FILTER FABRIC	SQ YD	190
31101000	SUBBASE GRANULAR MATERIAL, TYPE B	TON	1,822
40200900	AGGREGATE SURFACE COURSE, TYPE B	CU YD	86
40600275	BITUMINOUS MATERIALS (PRIME COAT)	POUND	5,500
40700100	BITUMINOUS MATERIALS (TACK COAT)	POUND	3,520
40701821	HOT-MIX ASPHALT PAVEMENT (FULL-DEPTH), 7"	SQ YD	2,444
44000100	PAVEMENT REMOVAL	SQ YD	2,367
48101500	AGGREGATE SHOULDERS, TYPE B 6"	SQ YD	802
50100100	REMOVAL OF EXISTING STRUCTURES	EACH	1.0
50105220	PIPE CULVERT REMOVAL	FOOT	73
50200100	STRUCTURE EXCAVATION	CU YD	581
50200450	REMOVAL AND DISPOSAL OF UNSUITABLE MATERIAL FOR STRUCTURES	CU YD	263
50800205	REINFORCEMENT BARS, EPOXY COATED	POUND	56,280
51500100	NAME PLATES	EACH	1
54003000	CONCRETE BOX CULVERTS	CU YD	234
542C0223	PIPE CULVERTS, CLASS C, TYPE 1 18"	FOOT	78
542D0211	PIPE CULVERTS, CLASS D, TYPE 1 6"	FOOT	45
63200310	GUARDRAIL REMOVAL	FOOT	349
67100100	MOBILIZATION	L SUM	1
X0900064	MEMBRANE WATERPROOFING SYSTEM FOR BURIED STRUCTURES	SQ YD	231
X2010400	STUMP REMOVAL ONLY	UNIT	166
X7240300	SIGN REMOVAL	EACH	4
Z0013798	CONSTRUCTION LAYOUT	L SUM	1
Z0016702	DETOUR SIGNING	L SUM	1
Z0054500	ROCK FILL	TON	543

① SEE SPECIAL PROVISIONS

PIPE CULVERTS, CLASS C, TYPE 1, 18"							
UPSTREAM			DOWNSTREAM				
STATION	O/S	INVERT	TO	STATION	O/S	INVERT	542C0223
5+03	30.5'	RT	608.96	5+81	34.5'	RT	607.33
TOTAL							78.0

SIGN REMOVAL			X7240300
STATION	O/S		EACH
5+93.78	18.9'	LT	1
6+23.25	18.9'	RT	1
7+71.13	18.5'	LT	1
7+99.25	18.5'	RT	1
TOTAL			4

RIPRAP SCHEDULE			
LOCATION		STONE RIPRAP, CLASS A5	FILTER FABRIC
		28100109	28200200
		SO YD	SO YD
NORTH END OF CULVERT		95.0	95.0
SOUTH END OF CULVERT		95.0	95.0
TOTAL		190.0	190.0

STUMP REMOVAL ONLY			X2010400
STATION	O/S		UNIT
7+12.60	44.1'	RT	7
7+13.48	42.9'	RT	12
7+13.99	45.9'	RT	12
7+14.90	44.3'	RT	12
7+15.56	45.6'	RT	12
7+18.29	43.6'	RT	12
7+18.65	48.4'	RT	12
7+18.67	42.4'	RT	12
7+19.18	50.1'	RT	12
7+20.10	41.3'	RT	16
7+19.85	42.6'	RT	7
7+20.23	45.7'	RT	7
7+20.68	46.3'	RT	6
7+20.08	47.2'	RT	6
7+21.23	47.9'	RT	12
7+20.10	48.4'	RT	9
TOTAL			166

MISC. REMOVALS						PIPE CULVERT REMOVAL	GUARDRAIL REMOVAL
LOCATION						50105220	63200310
STATION	O/S	TO	STATION	O/S		FOOT	FOOT
5+25.74	27.8'	RT	5+58.28	28.4'	RT	32.5	
5+95.50	19.1'	LT	7+70.24	18.7'	LT		175.5
6+25.25	18.6'	RT	7+97.81	19.2'	RT		173.2
6+80.89	16.6'	LT	6+93.91	24.0'	LT	40.0	
TOTAL						73.0	349.0

PERIMETER EROSION BARRIER					28000400
STATION	TO	STATION	O/S		LENGTH (FT)
6+38.00		9+89.00	LT		360.0
10+49.00		12+00.00	LT		160.0
7+26.00		12+00.00	RT		489.0
TOTAL					1009.0

EARTHWORK SCHEDULE								
LOCATION		EARTH EXCAVATION	EARTH EXCAVATION ADJUSTED FOR SHRINKAGE (25%)	EMBANKMENT	EARTHWORK BALANCE WASTE (+) OR SHORTAGE (-)	CHANNEL EXCAVATION	STRUCTURE EXCAVATION	REMOVAL AND DISPOSAL OF UNSUITABLE MATERIAL FOR STRUCTURES
		20200100				20300100	50200100	50200450
STATION TO STATION		CUBIC YARD	CUBIC YARD	CUBIC YARD	CUBIC YARD	CUBIC YARD	CUBIC YARD	CUBIC YARD
2+00.00	2+25.00	24.3	18.2	3.9	+14.3			
2+25.00	2+50.00	32.5	24.4	8.1	+16.3			
2+50.00	2+75.00	35.2	26.4	8.1	+18.3			
2+75.00	3+00.00	33.4	25.1	7.6	+17.4			
3+00.00	3+25.00	26.0	19.5	8.2	+11.3			
3+25.00	3+50.00	25.5	19.1	10.8	+8.3			
3+50.00	3+75.00	30.6	22.9	12.5	+10.4			
3+75.00	4+00.00	31.0	23.2	12.9	+10.3			
4+00.00	4+25.00	32.2	24.2	14.2	+10.0			
4+25.00	4+50.00	31.0	23.2	16.4	+6.8			
4+50.00	4+75.00	29.7	22.3	16.2	+6.1			
4+75.00	5+00.00	30.5	22.9	12.0	+10.9			
5+00.00	5+25.00	21.9	16.4	16.4	0.0			
5+25.00	5+50.00	23.8	17.9	17.2	+0.7			
5+50.00	5+75.00	39.0	29.3	11.9	+17.3			
5+75.00	6+00.00	42.8	32.1	9.7	+22.4			
6+00.00	6+25.00	28.7	21.5	8.6	+12.9	42.1	25.5	5.2
6+25.00	6+50.00	57.7	43.3	16.4	+28.9	36.0	85.6	23.7
6+50.00	6+75.00	87.9	65.9	34.6	+31.3	42.3	162.0	70.4
6+75.00	7+00.00	56.9	42.7	41.7	+1.0	70.5	157.4	88.9
7+00.00	7+25.00	50.6	37.9	30.0	+8.0	16.1	93.5	51.4
7+25.00	7+50.00	36.6	27.5	25.0	+2.5		47.2	19.1
7+50.00	7+75.00	11.1	8.3	20.3	-11.9		9.3	4.7
7+75.00	8+00.00	10.4	7.8	11.3	-3.5			
8+00.00	8+25.00	9.8	7.3	9.4	-2.1			
8+25.00	8+50.00	8.8	6.6	10.7	-4.2			
8+50.00	8+75.00	7.2	5.4	10.4	-5.0			
8+75.00	9+00.00	5.6	4.2	9.8	-5.6			
9+00.00	9+25.00	5.6	4.2	9.3	-5.1			
9+25.00	9+50.00	6.8	5.1	7.7	-2.6			
9+50.00	9+75.00	8.7	6.5	7.8	-1.3			
9+75.00	10+00.00	19.4	14.6	10.7	+3.8			
10+00.00	10+25.00	29.9	22.4	10.0	+12.4			
10+25.00	10+50.00	21.3	16.0	5.1	+10.8			
10+50.00	10+75.00	11.2	8.4	5.6	+2.8			
10+75.00	11+00.00	11.5	8.6	7.7	+0.9			
11+00.00	11+25.00	12.4	9.3	6.9	+2.4			
11+25.00	11+50.00	12.0	9.0	6.9	+2.1			
11+50.00	11+75.00	12.7	9.5	6.6	+2.9			
11+75.00	12+00.00	14.9	11.1	2.9	+8.2			
TOTALS		1027.0	770.0	502.0	+269.0	207.0	581.0	263.0

DIRECTORY USER NAME = Emily Mundry
 License No. 184-000613



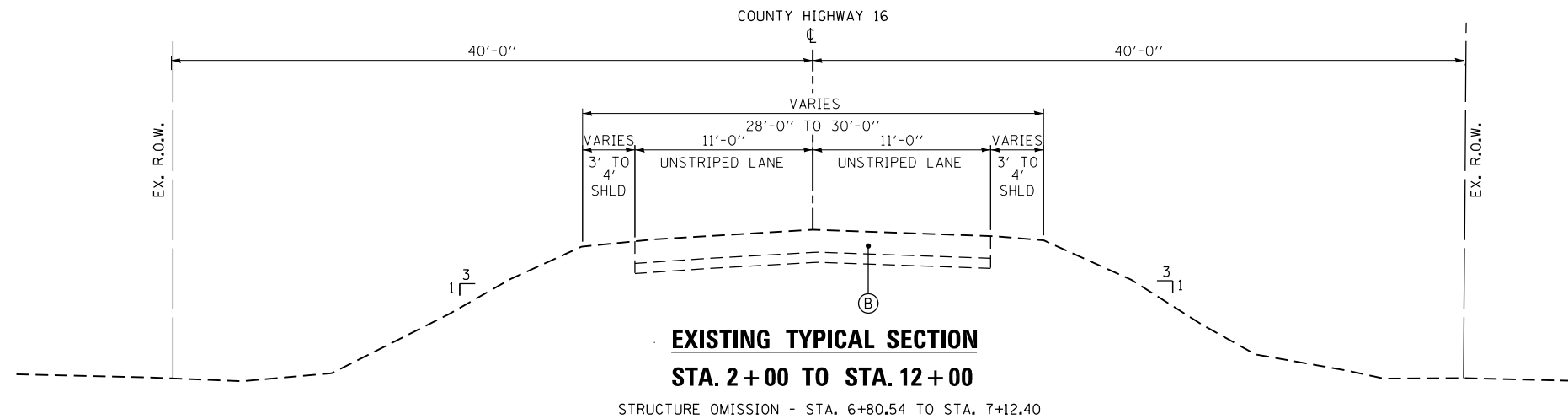
MODEL NAME =	DESIGNED - LM/EM	REVISED -
FILE NAME =	DRAWN - EMM	REVISED -
PLOT SCALE = 2.0000 ' / in.	CHECKED - EJH	REVISED -
PLOT DATE = 2/19/2020 8:30:50 AM	DATE - NOVEMBER 2018	REVISED -

MERCER COUNTY HIGHWAY DEPARTMENT
MERCER COUNTY, ILLINOIS

COUNTY HIGHWAY 16 BRIDGE REPLACEMENT
SUMMARY OF QUANTITIES & SCHEDULES

SCALE:	SHEET 1 OF 1 SHEETS	STA. TO STA.
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F.A.S. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
215	16-00110-00-BR	MERCER	25	3
CONTRACT NO. 89719				
ILLINOIS FED. AID PROJECT				

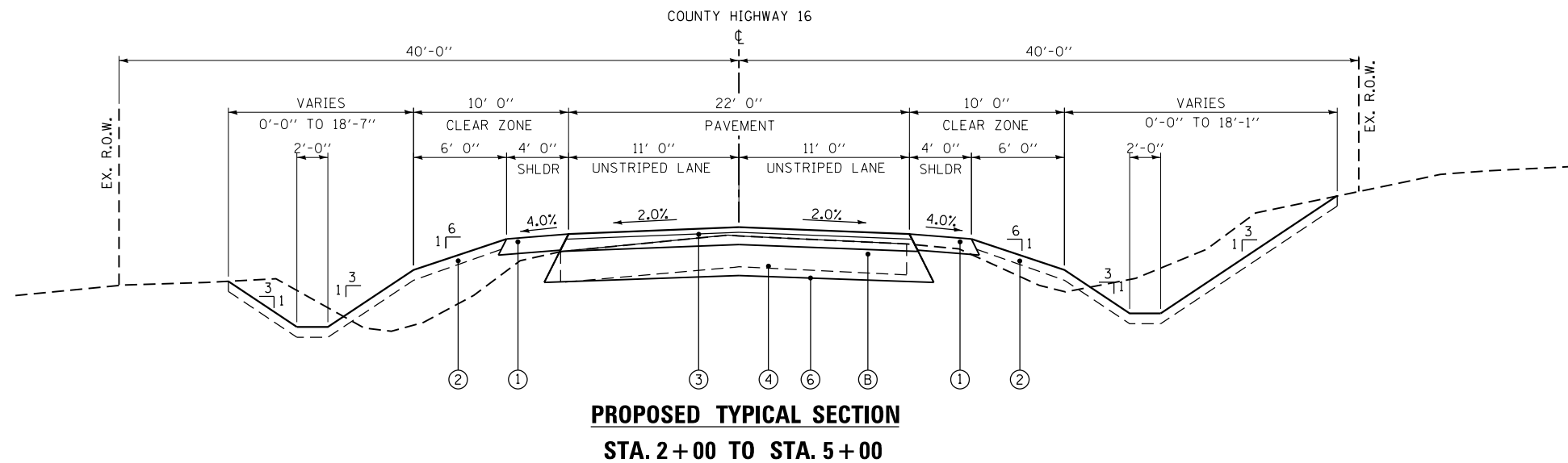


EXISTING MATERIALS

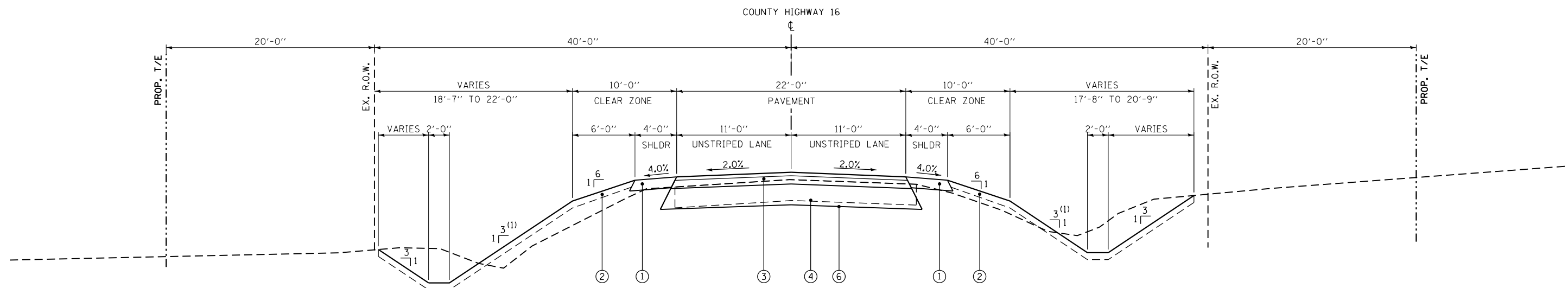
- (A) EXISTING STRUCTURE - REINFORCED CONCRETE DECK ON STEEL BEAMS
- (B) EXISTING PAVEMENT - HOT-MIX ASPHALT ON AGGREGATE BASE WITH SHOULDERS (THICKNESSES SHOWN ON REMOVAL PLANS)

PROPOSED MATERIALS

- (1) AGGREGATE SHOULDERS, TYPE B, 6"
- (2) TOPSOIL, FURNISH AND PLACE AND SEEDING, 4"
- (3) HOT-MIX ASPHALT PAVEMENT (FULL DEPTH), 7"
- (4) SUBBASE GRANULAR MATERIAL, TYPE B, 12"
- (5) 8'x8' REINFORCED CONCRETE BOX CULVERT
- (6) GEOTECHNICAL FABRIC FOR GROUND STABILIZATION (UNDER ALL SUBBASE GRANULAR MATERIAL)



**PROPOSED TYPICAL SECTION
STA. 2+00 TO STA. 5+00**



**PROPOSED TYPICAL SECTION
STA. 5+00 TO STA. 6+65.14**

- (1) FORESLOPE TRANSITIONS
STA. 5+00 TO STA. 6+00, LT, 3:1 TO 2:1
STA. 5+75 TO STA. 6+75, RT, 3:1 TO 2:1

DIRECTORY: L:\Misc\County170810\Draw\CADD_Sheets...
 USER NAME: Emily Munday



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 CHECKED - E.JH
 DATE - NOVEMBER 2018

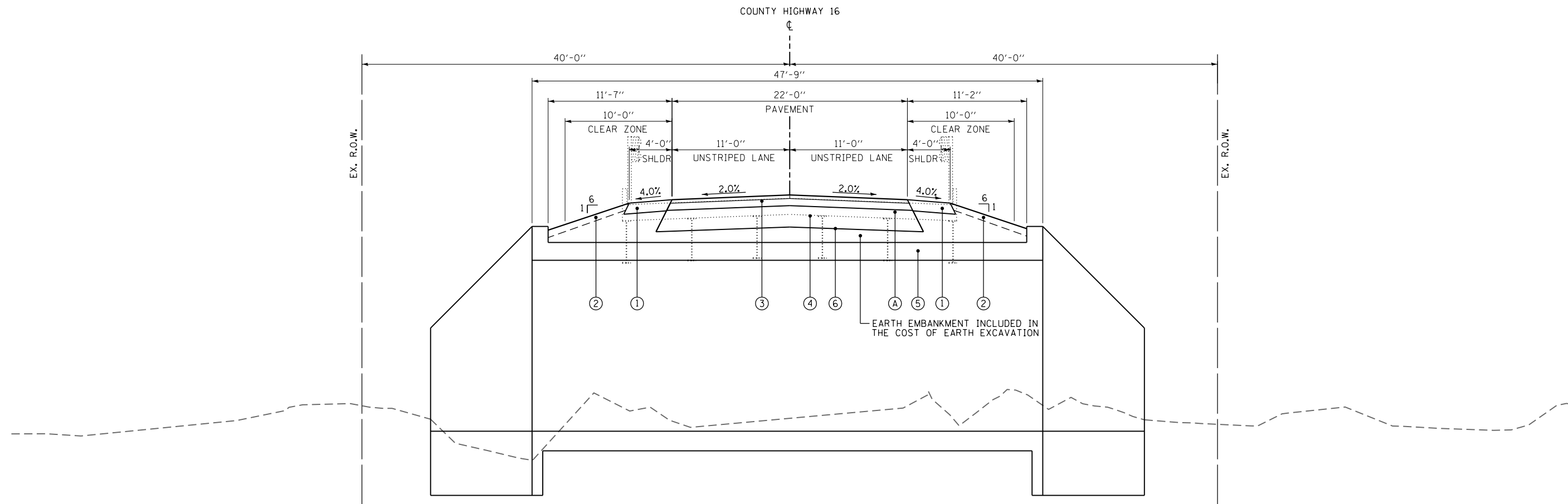
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**MERCER COUNTY HIGHWAY DEPARTMENT
 MERCER COUNTY, ILLINOIS**

**COUNTY HIGHWAY 16 STRUCTURE REPLACEMENT
 TYPICAL SECTIONS**

SCALE: 1" = 5' SHEET 1 OF 2 SHEETS STA. TO STA.

F.A.S. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
215	16-00110-00-BR	MERCER	25	4
CONTRACT NO. 89719				
ILLINOIS FED. AID PROJECT				



PROPOSED TYPICAL SECTION ALONG CULVERT
STA. 6 + 65.14 TO STA. 7 + 02.86

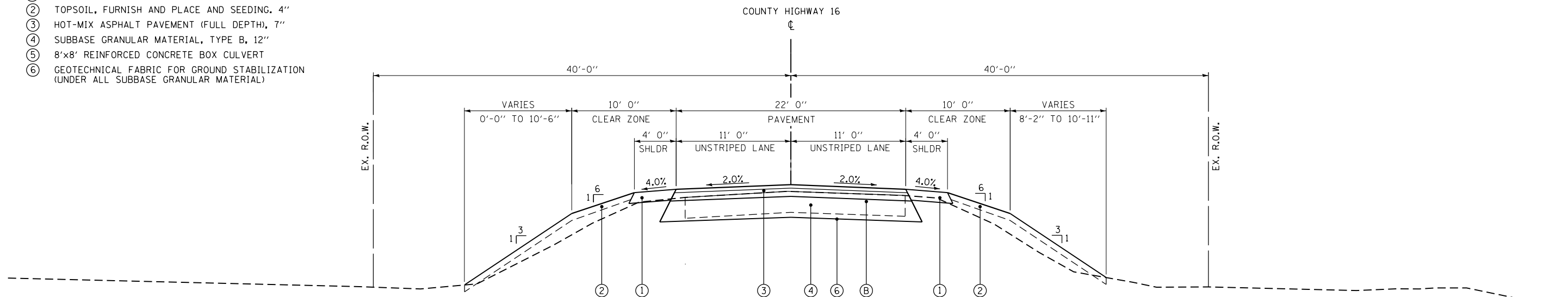
(DIMENSIONS GIVEN PERPENDICULAR TO CENTERLINE AT THIS SECTION)

EXISTING MATERIALS

- (A) EXISTING STRUCTURE - REINFORCED CONCRETE DECK ON STEEL BEAMS
- (B) EXISTING PAVEMENT - HOT-MIX ASPHALT ON AGGREGATE BASE WITH SHOULDERS (THICKNESSES SHOWN ON REMOVAL PLANS)

PROPOSED MATERIALS

- (1) AGGREGATE SHOULDERS, TYPE B, 6"
- (2) TOPSOIL, FURNISH AND PLACE AND SEEDING, 4"
- (3) HOT-MIX ASPHALT PAVEMENT (FULL DEPTH), 7"
- (4) SUBBASE GRANULAR MATERIAL, TYPE B, 12"
- (5) 8'x8' REINFORCED CONCRETE BOX CULVERT
- (6) GEOTECHNICAL FABRIC FOR GROUND STABILIZATION (UNDER ALL SUBBASE GRANULAR MATERIAL)



PROPOSED TYPICAL SECTION
STA. 7 + 02.86 TO STA. 12 + 00

DIRECTORY: L:\Misc\County170810\Draw\CAD_Sheets...
 USER NAME: Emily Munday



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DESIGNED - LM/EM
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 CHECKED - E.JH
 DATE - NOVEMBER 2018

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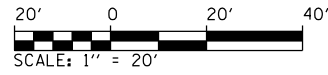
MERCER COUNTY HIGHWAY DEPARTMENT
MERCER COUNTY, ILLINOIS

COUNTY HIGHWAY 16 STRUCTURE REPLACEMENT
TYPICAL SECTIONS

SCALE: 1" = 5' SHEET 2 OF 2 SHEETS STA. TO STA.

F.A.S. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
215	16-00110-00-BR	MERCER	25	5
CONTRACT NO. 89719				

ILLINOIS FED. AID PROJECT



EXISTING R.O.W.

△ CP2

PROPOSED COUNTY HIGHWAY 16 ☺

4+90.00
60.00' LT

4+90.00
40.00' LT

BM #1

△ CP3

PROPOSED T/E

FAS 215 (CH 16)

MATCHLINE 6 + 50

EXISTING R.O.W.

CONTROL POINTS

NO.	DESCRIPTION	NORTHING	EASTING	STATION	OFFSET
CP 1	IRON PIN	1616149.702	2119490.185	12+00.50	16.73' LT.
CP 2	IRON PIN	1616198.026	2118490.968	2+00.23	32.31' LT.
CP 3	IRON PIN	1616167.469	2118856.148	5+66.22	13.73' LT.

5+30.00
40.00' RT

5+30.00
60.00' RT

PROPOSED T/E

BENCHMARKS

- BM #1: COTTON SPINDLE IN SOUTH FACE OF POWER POLE LOCATED ON THE FIRST POLE WEST OF BRIDGE, NORTH SIDE OF ROAD STA.=4+71.71, 41.23' LT. ELEV.=610.93
- BM #2: COTTON SPINDLE IN SOUTH FACE OF POWER POLE LOCATED ON THE FIRST POLE EAST OF BRIDGE, NORTH SIDE OF ROAD STA.=7+74.29, 41.72' LT. ELEV.=608.80

PROPOSED T/E

20'

BM #2

7+60.00
60.00' LT

7+60.00
40.00' LT

PROPOSED COUNTY HIGHWAY 16 ☺

MATCHLINE 6 + 50

FAS 215 (CH 16)

△ CP1

PROPOSED T/E

20'

8+00.00
40.00' RT

8+00.00
60.00' RT

DIRECTORY = Emily Munday
USER NAME = Emily Munday



MODEL NAME =	DESIGNED - EMM	REVISED -
FILE NAME =	DRAWN - EMM	REVISED -
PLOT SCALE = 40.0000' / in.	CHECKED - EJM	REVISED -
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MERCER COUNTY HIGHWAY DEPARTMENT
MERCER COUNTY, ILLINOIS




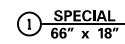
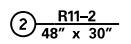
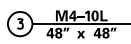



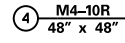
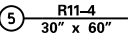
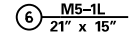






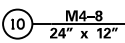
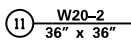
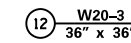


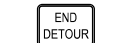
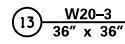
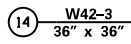
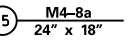

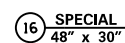
COUNTY HIGHWAY 16 STRUCTURE REPLACEMENT
ALIGNMENT, BENCHMARKS, AND RIGHT OF WAY

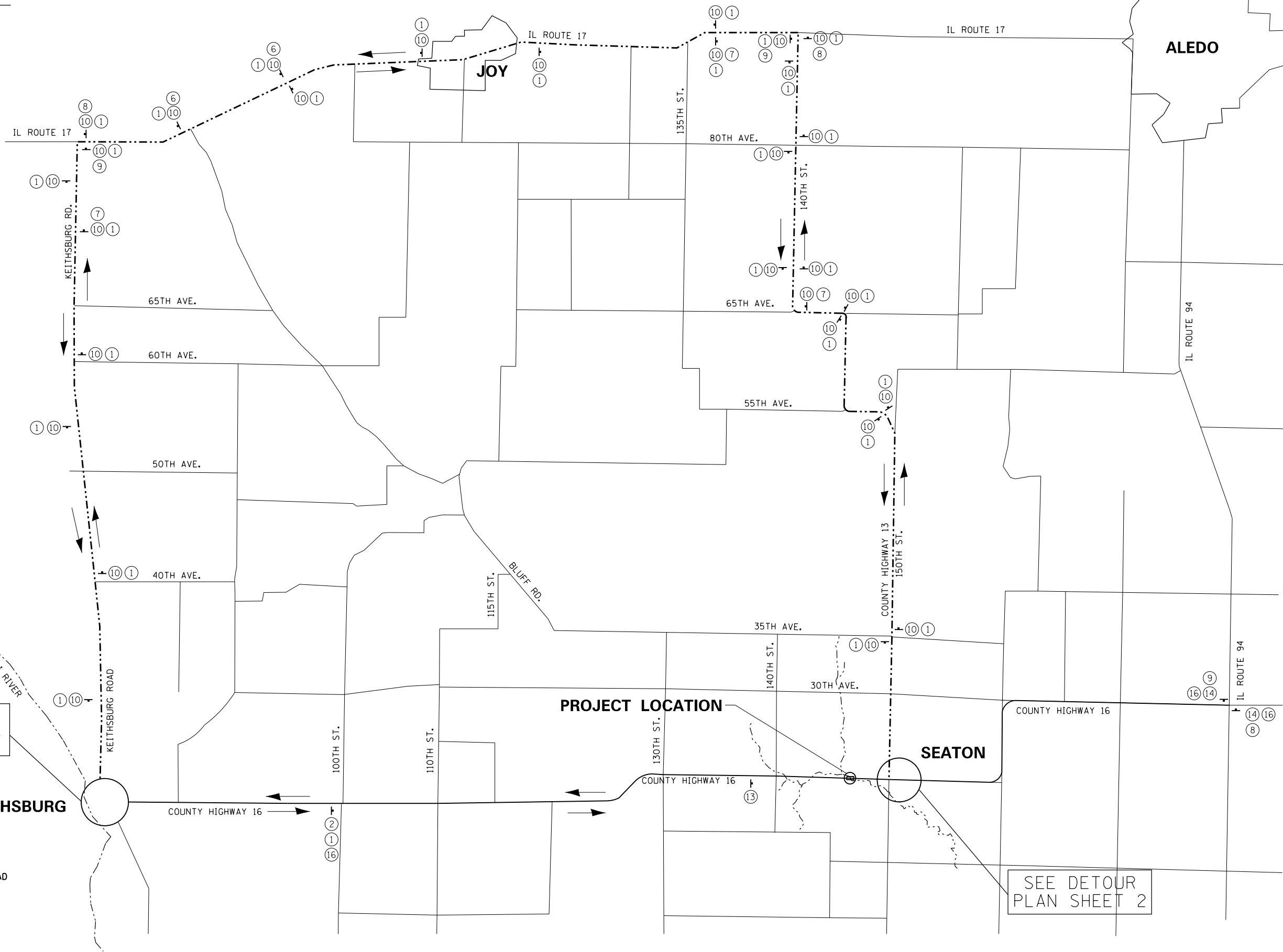
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F.A.S. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
215	16-00110-00-BR	MERCER	25	6
CONTRACT NO. 89719				

ILLINOIS FED. AID PROJECT

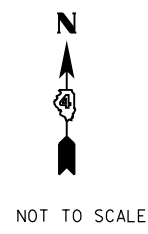
LEGEND:

-  COUNTY HIGHWAY 16
-  ROAD CLOSED
-  DETOUR
-  1 SPECIAL 66" x 18"
-  2 R11-2 48" x 30"
-  3 M4-10L 48" x 48"
-  DETOUR
-  ROAD CLOSED TO THRU TRAFFIC
-  DETOUR
-  4 M4-10R 48" x 48"
-  5 R11-4 30" x 60"
-  6 M5-1L 21" x 15"
-  7 M5-1R 21" x 15"
-  8 M6-1L 21" x 15"
-  9 M6-1R 21" x 15"
-  DETOUR
-  DETOUR 1500 FT
-  ROAD CLOSED 500 FT
-  10 M4-8 24" x 12"
-  11 W20-2 36" x 36"
-  12 W20-3 36" x 36"
-  ROAD CLOSED AHEAD
-  BRIDGE OUT
-  END DETOUR
-  13 W20-3 36" x 36"
-  14 W42-3 36" x 36"
-  15 M4-8a 24" x 18"
-  WEST OF SEATON
-  16 SPECIAL 48" x 30"



SEE DETOUR PLAN SHEET 2

SEE DETOUR PLAN SHEET 2



NOTE:
 TYPE III BARRICADES SHALL BE PLACED ACROSS THE ROAD AT EACH END OF THE BRIDGE CONSTRUCTION LIMITS TO PREVENT VEHICLES FROM ENTERING THE WORK ZONE. THE "BRIDGE OUT" SIGN SHALL BE MOUNTED ON THE TYPE III BARRICADES. THE CONTRACTOR SHALL PROVIDE SAFE ACCESS TO PROPERTIES NEAR TO, AND WITHIN, THE CONSTRUCTION LIMITS.

DIRECTORY USER NAME = Emily Munday
 License No. 184-000813 © Copyright CMT Inc.



MODEL NAME =	DESIGNED - LM/EM	REVISED -
FILE NAME =	DRAWN - EMM	REVISED -
PLOT SCALE = 2.0000' / 1" =	CHECKED - E.J.H.	REVISED -
PLOT DATE = 2/19/2020 8:31:15 AM	DATE - NOVEMBER 2018	REVISED -

**MERCER COUNTY HIGHWAY DEPARTMENT
 MERCER COUNTY, ILLINOIS**

**COUNTY HIGHWAY 16 STRUCTURE REPLACEMENT
 DETOUR PLAN**

SCALE: NTS SHEET 1 OF 2 SHEETS STA. TO STA.

F.A.S. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
215	16-00110-00-BR	MERCER	25	7
CONTRACT NO. 89719				

ILLINOIS FED. AID PROJECT

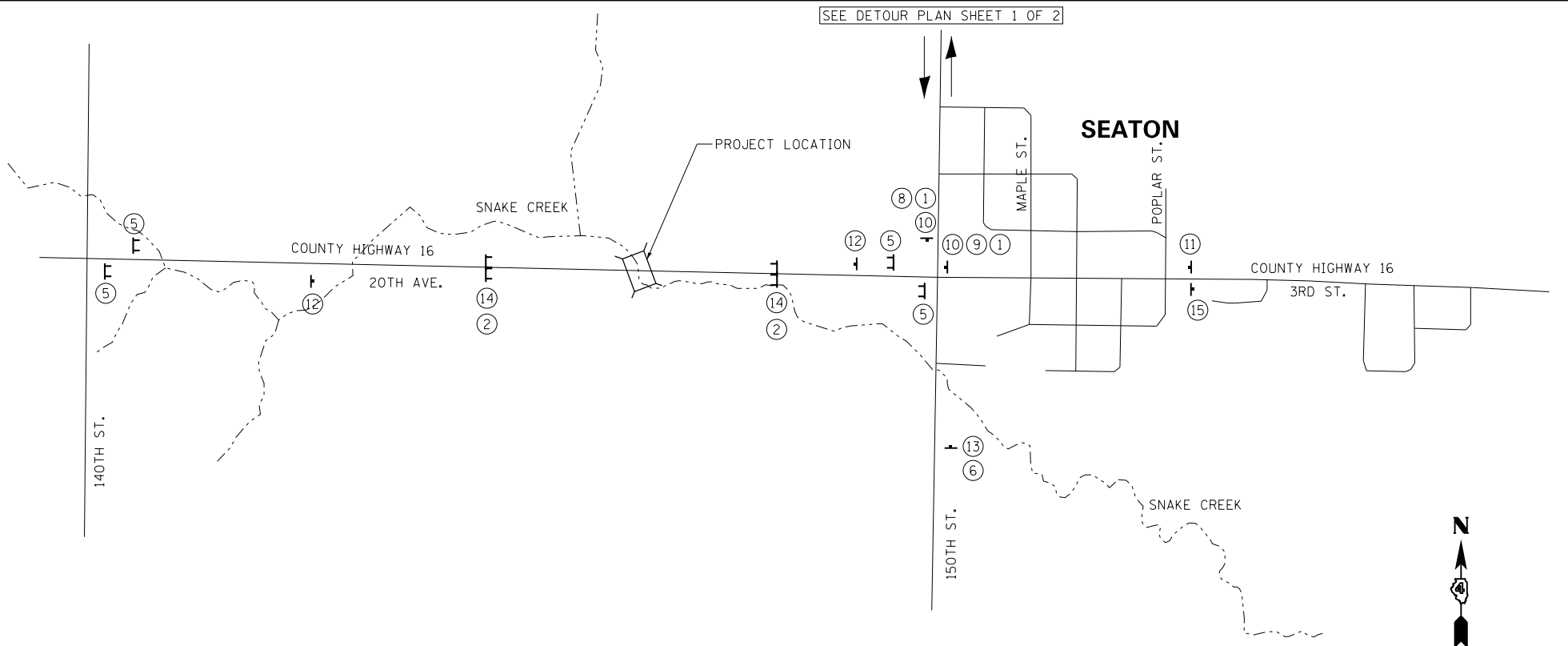
LEGEND:

- 1 SPECIAL 66" x 18"
- 2 R11-2 48" x 30"
- 3 M4-10L 48" x 48"
- 4 M4-10R 48" x 48"
- 5 R11-4 30" x 60"
- 6 M5-1L 21" x 15"
- 7 M5-1R 21" x 15"
- 8 M6-1L 21" x 15"
- 9 M6-1R 21" x 15"
- 10 M4-8 24" x 12"
- 11 W20-2 36" x 36"
- 12 W20-3 36" x 36"
- 13 W20-3 36" x 36"
- 14 W42-3 36" x 36"
- 15 M4-8a 24" x 18"
- 16 SPECIAL 48" x 30"

WEST OF SEATON

NOTE:

TYPE III BARRICADES SHALL BE PLACED ACROSS THE ROAD AT EACH END OF THE BRIDGE CONSTRUCTION LIMITS TO PREVENT VEHICLES FROM ENTERING THE WORK ZONE. THE "BRIDGE OUT" SIGN SHALL BE MOUNTED ON THE TYPE III BARRICADES. THE CONTRACTOR SHALL PROVIDE SAFE ACCESS TO PROPERTIES NEAR TO AND WITHIN THE CONSTRUCTION LIMITS.



NOT TO SCALE

SEE DETOUR PLAN SHEET 1 OF 2



NOT TO SCALE

DIRECTORY USER NAME = Emily Munday
 License No. 184-000613



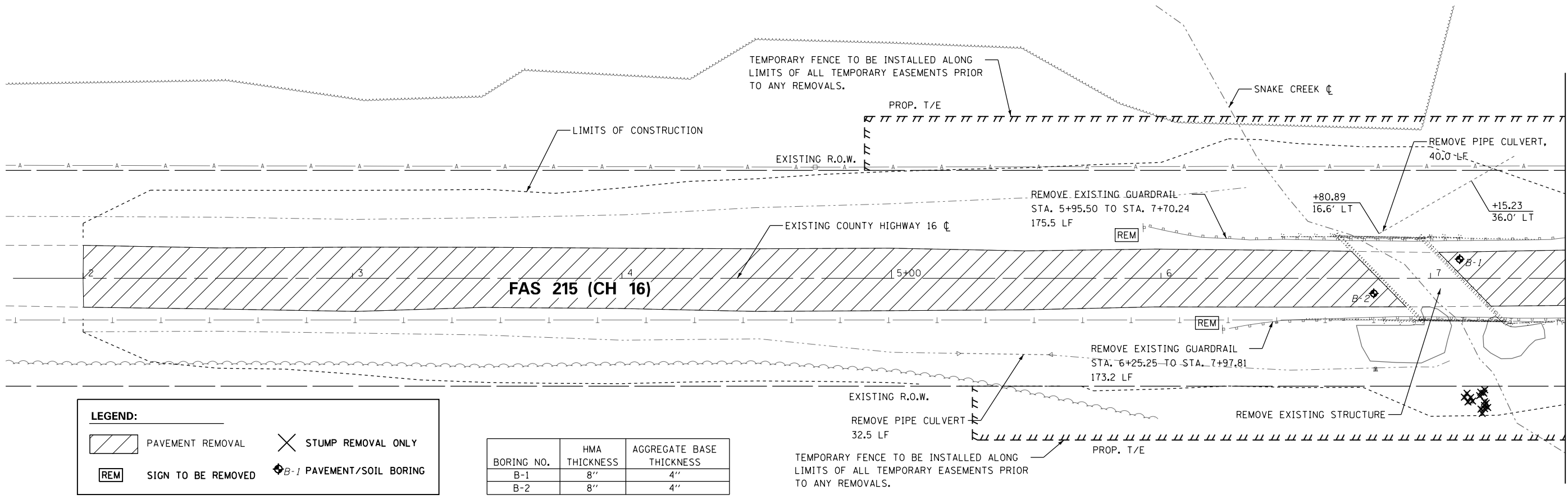
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**MERCER COUNTY HIGHWAY DEPARTMENT
MERCER COUNTY, ILLINOIS**

**COUNTY HIGHWAY 16 STRUCTURE REPLACEMENT
DETOUR PLAN**

SCALE: NTS SHEET 2 OF 2 SHEETS STA. TO STA.

F.A.S. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
215	16-00110-00-BR	MERCER	25	8
CONTRACT NO. 89719				
ILLINOIS FED. AID PROJECT				



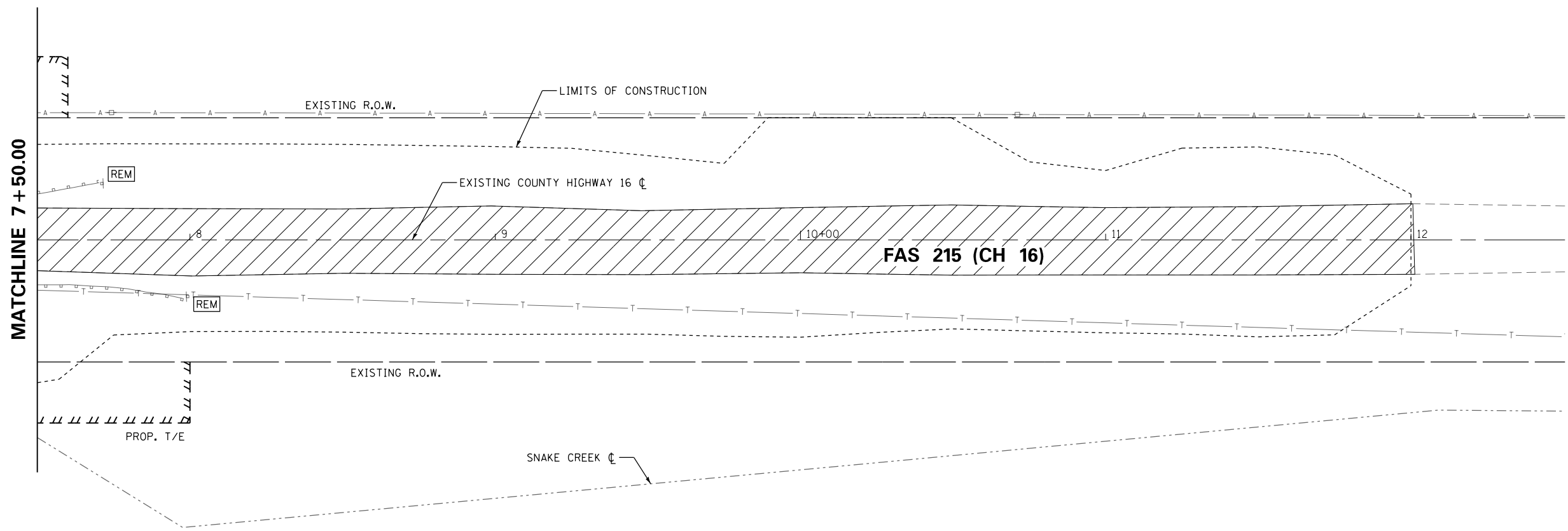
MATCHLINE 7 + 50.00

LEGEND:

	PAVEMENT REMOVAL		STUMP REMOVAL ONLY
	SIGN TO BE REMOVED		PAVEMENT/SOIL BORING

BORING NO.	HMA THICKNESS	AGGREGATE BASE THICKNESS
B-1	8"	4"
B-2	8"	4"

TEMPORARY FENCE TO BE INSTALLED ALONG LIMITS OF ALL TEMPORARY EASEMENTS PRIOR TO ANY REMOVALS.



MATCHLINE 7 + 50.00

DIRECTOR: Emily Munday



MODEL NAME =	DESIGNED - EMM	REVISED -
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**MERCER COUNTY HIGHWAY DEPARTMENT
MERCER COUNTY, ILLINOIS**

**COUNTY HIGHWAY 16 STRUCTURE REPLACEMENT
REMOVAL PLANS**

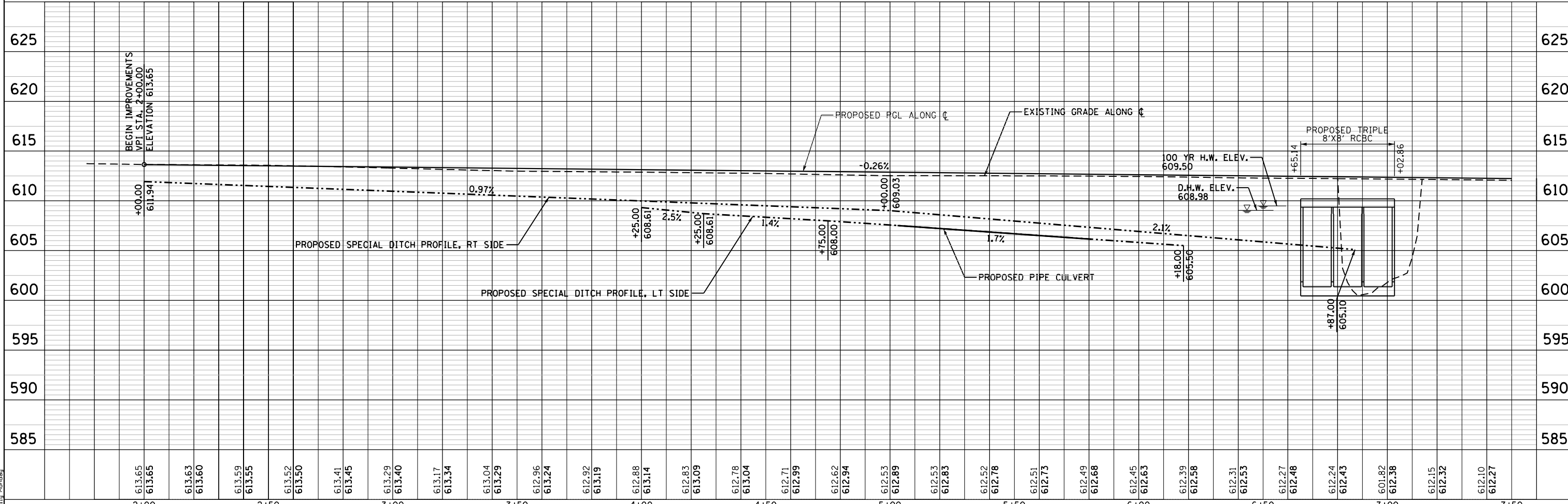
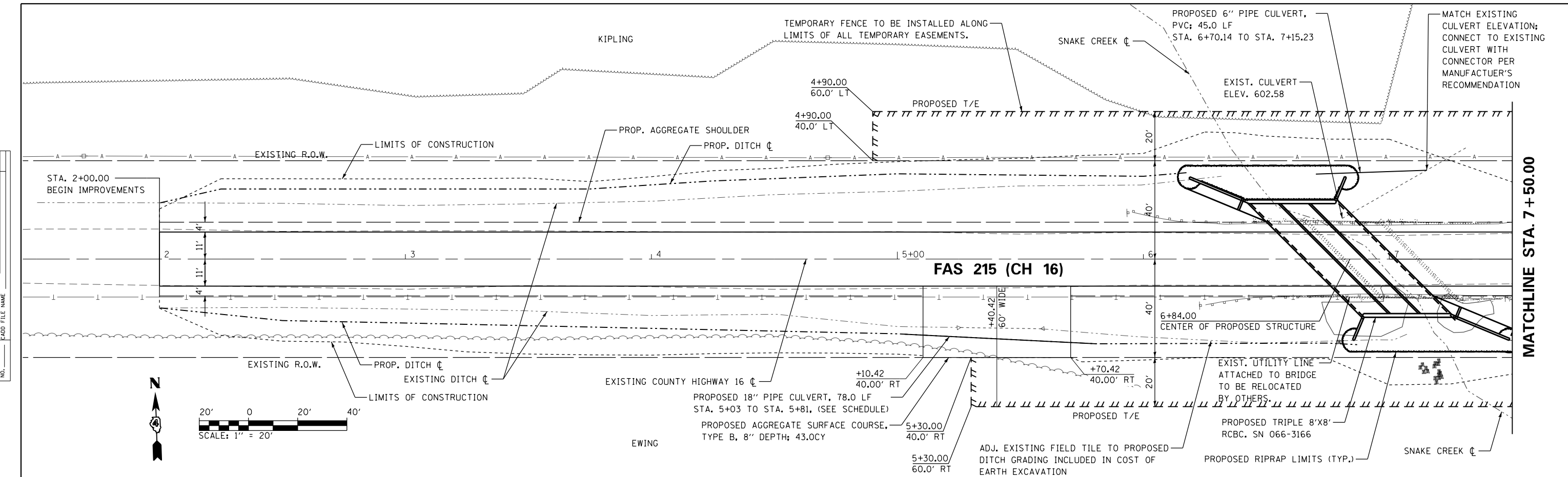
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F.A.S. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
215	16-00110-00-BR	MERCER	25	9
CONTRACT NO. 89719				

ILLINOIS FED. AID PROJECT

PLAN	SURVEYED	BY	DATE
	NOTED		
	CHECKED		
	FILED		
	NO.		

PROFILE	SURVEYED	BY	DATE
	GRADES		
	CHECKED		
	STRUCTURE		
	NOTATIONS		
	CHKD		
	NO.		



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 USER NAME = Emily_Murphy



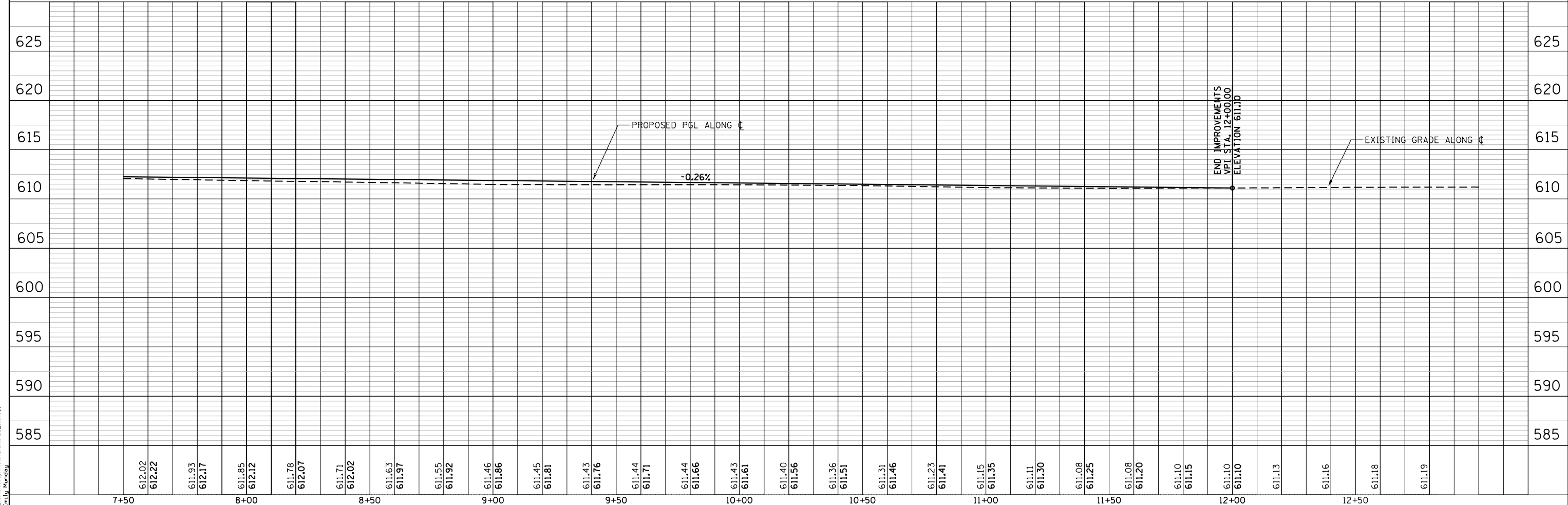
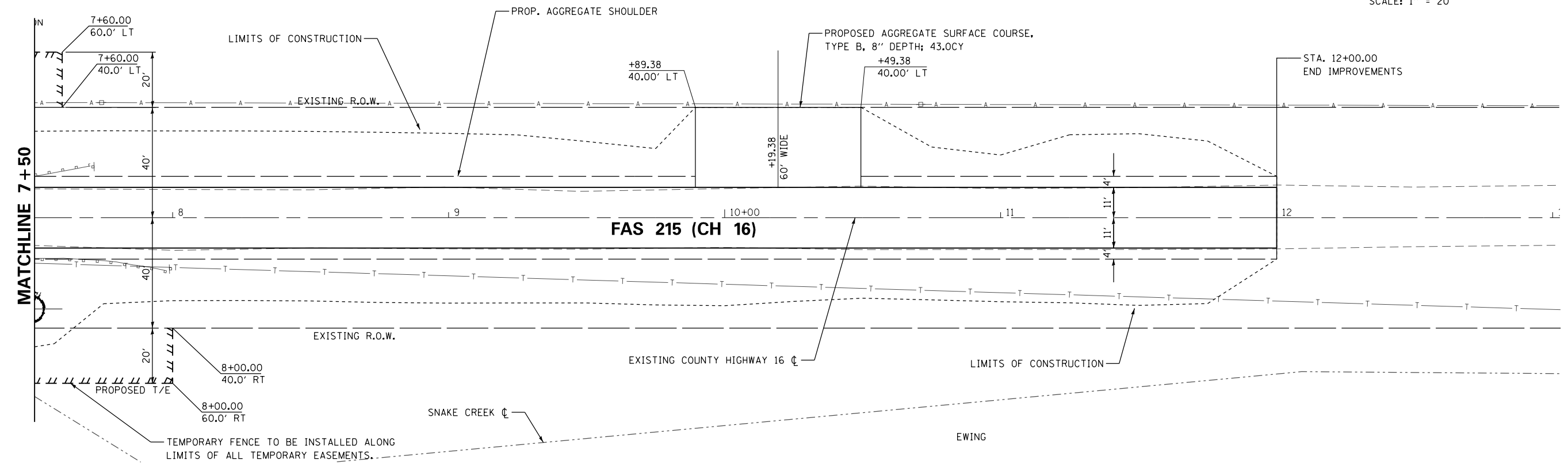
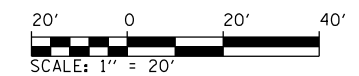
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**MERCER COUNTY HIGHWAY DEPARTMENT
 MERCER COUNTY, ILLINOIS**

**COUNTY HIGHWAY 16 STRUCTURE REPLACEMENT
 PLAN AND PROFILE**

SCALE: 1" = 20' SHEET 1 OF 2 SHEETS STA. 2+00 TO STA. 7+50

F.A.S. RTE. 215	SECTION 16-00110-00-BR	COUNTY MERCER	TOTAL SHEETS 25	SHEET NO. 10
CONTRACT NO. 89719			ILLINOIS FED. AID PROJECT	



PLAN	SURVEYED	DATE
	PLOTTED	BY
	GRADES CHECKED	
	STRUCTURE NOTATIONS CHECKED	
	NOTE BOOK NO.	

PROFILE	SURVEYED	DATE
	PLOTTED	BY
	GRADES CHECKED	
	STRUCTURE NOTATIONS CHECKED	
	NOTE BOOK NO.	

DIRECTORY = L:\MercerCounty\17081010\Draw\CAD_Sheets...
 USER NAME = Emily_Murphy

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7+50		8+00		8+50		9+00		9+50		10+00		10+50		11+00		11+50		12+00		12+50																													



MODEL NAME = SHEET 2	DESIGNED - EMM	REVISED -
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MERCER COUNTY HIGHWAY DEPARTMENT
 MERCER COUNTY, ILLINOIS

COUNTY HIGHWAY 16 STRUCTURE REPLACEMENT
 PLAN AND PROFILE

F.A.S. RTE. 215	SECTION 16-00110-00-BR	COUNTY MERCER	TOTAL SHEETS 25	SHEET NO. 11
CONTRACT NO. 89719				

SCALE: 1" = 20' SHEET 2 OF 2 SHEETS STA. 7+50 TO STA. 12+00

ILLINOIS FED. AID PROJECT

EROSION CONTROL GENERAL NOTES:

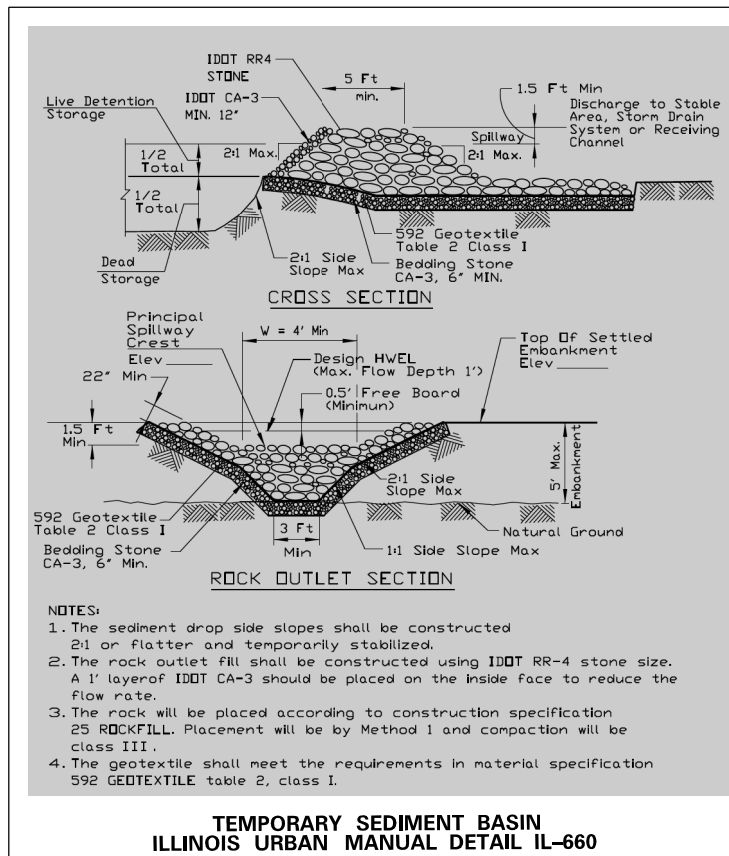
1. THE CONTRACTOR SHALL INSTALL ALL APPLICABLE EROSION CONTROL MEASURES PRIOR TO ANY SITE DISTURBANCE.
2. THE CONTRACTOR SHALL ADHERE TO ALL TERMS AND CONDITIONS AS SHOWN ON THIS EROSION CONTROL PLAN. MEASURES SHALL BE INITIATED AS SOON AS PRACTICABLE.
3. ALL UNSURFACED (OR PERMANENT NON-AGGREGATE) AREAS DISTURBED BY CONSTRUCTION OPERATIONS SHALL RECEIVE A MINIMUM 4" OF TOPSOIL, FERTILIZER, SEED, HYDRAULIC MULCH AND/OR EROSION CONTROL BLANKET IN ACCORDANCE WITH THE PLANS AND SPECIFICATIONS. ALL TURF AREAS SHALL BE CHECKED REGULARLY TO MAINTAIN A HEALTHY STAND OF GRASS. AREAS SHALL BE FERTILIZED AND RESEED AS REQUIRED.
4. CONTRACTOR SHALL ESTABLISH POINTS OF INGRESS AND EGRESS FROM EXISTING ROADWAYS. THE WORK SHALL BE IN ACCORDANCE WITH THE DETAIL ENTITLED STABILIZED CONSTRUCTION ENTRANCE.
5. THE CONTRACTOR SHALL BE RESPONSIBLE FOR REMOVING SEDIMENT WHICH MAY COLLECT IN THE CULVERT SYSTEM.
6. SEDIMENT SHALL BE REMOVED FROM STRAW WATTLES OR SILT FENCE WHEN IT REACHES ONE-HALF THE HEIGHT OF THE BARRIER IN PLACE.
7. THE CONTRACTOR SHALL BE RESPONSIBLE FOR ADJUSTING THE EROSION AND SEDIMENTATION CONTROL MEASURES AS NECESSARY TO BE MAINTAINED IN FULLY FUNCTIONAL CONDITION THROUGHOUT THE ENTIRE PROJECT.
8. CONTRACTOR TO REMOVE ALL CONSTRUCTION DEBRIS, MUD, TEMPORARY FENCING, ETC. UPON COMPLETION OF CONSTRUCTION.
9. TEMPORARY EROSION CONTROL DEVICES SHALL BE CONSTRUCTED AS SHOWN ON THE PLANS OR AS DIRECTED BY THE ENGINEER.
10. ALL PERMANENT AND/OR TEMPORARY CHANNEL RELOCATION OR MODIFICATION SHALL BE CONSTRUCTED UNDER DRY CONDITIONS AND STABILIZED PRIOR TO DIVERSION OF FLOW THROUGH THE NEW CHANNEL.
11. ANY DEVIATION OF THE TEMPORARY EROSION CONTROL PLAN OR SCHEDULE BY THE CONTRACTOR SHALL BE AT THE DISCRETION OF THE ENGINEER.
12. ALL WASH WATER (CONCRETE TRUCKS, VEHICLE CLEANING, EQUIPMENT CLEANING, ETC.) SHALL BE DETAINED AND PROPERLY TREATED OR DISPOSED.
13. SUFFICIENT OIL AND GREASE ABSORBING MATERIALS AND FLOATATION BOOMS SHALL BE MAINTAINED ON SITE OR READILY AVAILABLE TO CONTAIN AND CLEAN UP FUEL OR CHEMICAL SPILLS AND LEAKS.
14. CLASS 2A SEEDING SHALL BE PLACED ON SLOPES WITHIN 4' ADJACENT TO THE SHOULDERS, ON ALL DITCH FORESLOPES AND DITCH BOTTOMS AS WELL AS ALL SLOPES NOT ADJACENT TO THE SHOULDER.

BEST MANAGEMENT PRACTICES SEQUENCE:

THE CONTRACTOR SHALL ADHERE TO THE FOLLOWING SEQUENCE OF EVENTS DURING CONSTRUCTION AND SHALL NOTIFY THE OWNER'S REPRESENTATIVE IMMEDIATELY OF ANY CHANGES MADE TO THE PHASING:

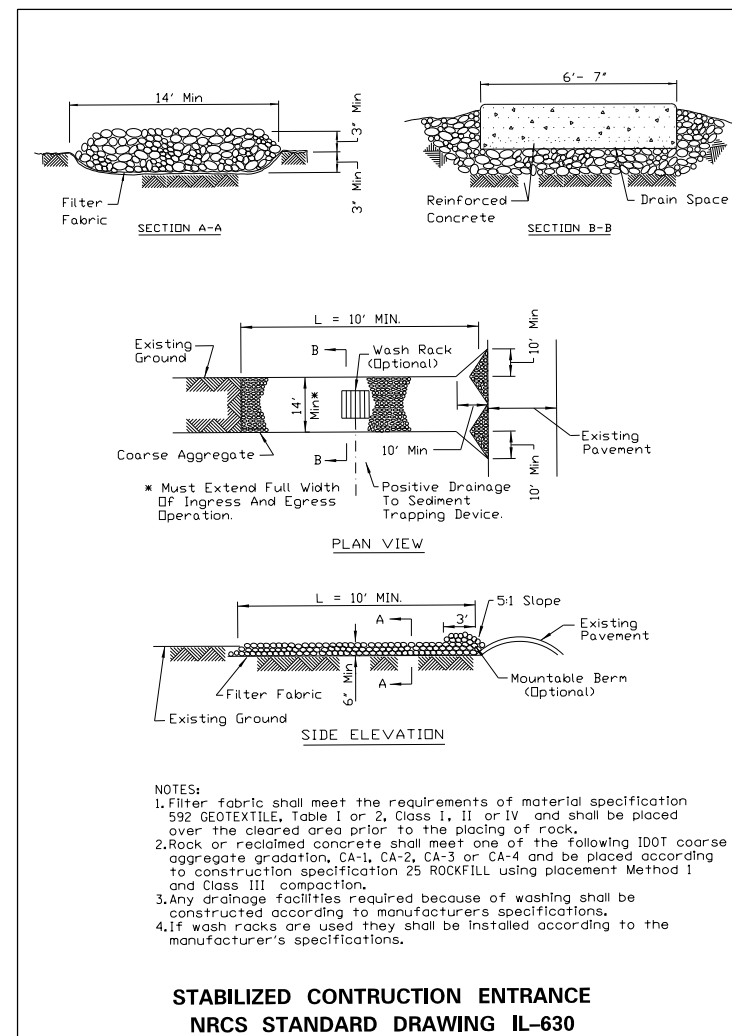
1. INSTALL STABILIZED CONSTRUCTION ENTRANCE AND PERIMETER EROSION CONTROL AT EDGE OF LIMITS OF DISTURBANCE.

2. BEGIN ROUGH GRADING OF SITE. TEMPORARILY STABILIZE ALL DISTURBED AREAS THAT WILL BE INACTIVE FOR 7 CALENDAR DAYS OR MORE (UNLESS CONSTRUCTION ACTIVITY WILL RESUME ON THAT PORTION WITH 14 DAYS.) THE LAST PASS ON ANY ROUGH GRADED SLOPE SHALL BE UP AND DOWN THE SLOPE, SO THAT DOZER TRACKS ARE LEFT PERPENDICULAR OR ACROSS THE SLOPE, NOT IN LINE WITH IT.
3. INSTALL DITCH CHECKS AS ROUGH GRADING PROGRESSES AND MAINTAIN AS NEEDED.
4. MAINTAIN PERIMETER EROSION CONTROL (SILT FENCE, STRAW WATTLES) TO BE FREE OF ACCUMULATED SEDIMENT. REPAIR AS NEEDED AND REPLACE WHEN DAMAGED.
5. PROVIDE PIPE PROTECTION APPROPRIATE FOR STAGE OF CONSTRUCTION. MAINTAIN CULVERTS TO BE FREE OF ACCUMULATED SEDIMENT DURING CONSTRUCTION. REPAIR/REPLACE AS NEEDED.
6. PROVIDE CONCRETE WASHOUT FACILITIES IN ACCORDANCE WITH ILLINOIS URBAN MANUAL FOR ALL CEMENTITIOUS MATERIALS INCLUDING PORTLAND CEMENT CONCRETE, MORTAR, STUCCO, PAINT AND/OR GROUT. WASH WATERS CANNOT BE DISCHARGED EITHER INTO THE GROUND OR SEWERS. CLEAN CONCRETE WASH OUT FACILITIES TO MAINTAIN CAPACITIES. WASHOUT BASINS SHALL BE INCIDENTAL TO ANY CONCRETE PAY ITEMS.
7. PAVE SITE AND APPURTENANCES. COMPLETE FINAL STABILIZATION OF SITE.
8. PERFORM FINAL GRADING, LANDSCAPING AND SEEDING AS SHOWN. MAINTAIN BMP'S IN PLACE UNTIL ALL VEGETATED AREAS HAVE ACHIEVED FINAL STABILIZATION REQUIREMENTS (UNIFORM 70% COVERAGE).
9. WHEN FINAL STABILIZATION IS ACHIEVED AS DETERMINED BY OWNER'S REPRESENTATIVE, REMOVE ALL TEMPORARY BMP'S AND FILE NOTICE OF TERMINATION WITH IEPA ON OWNER'S BEHALF.



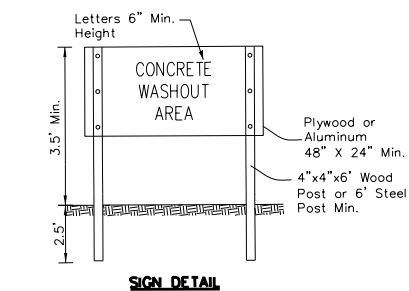
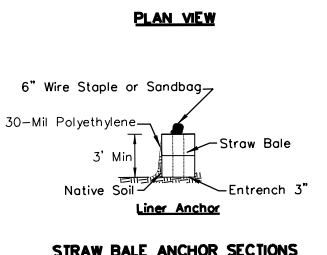
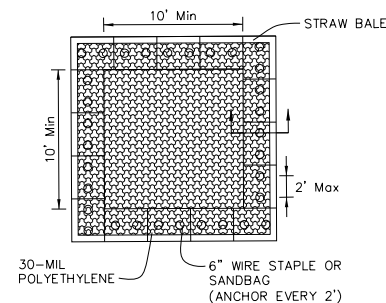
EROSION CONTROL MAINTENANCE:

- ALL MEASURES STATED ON THIS EROSION CONTROL PLAN SHALL BE MAINTAINED IN FULLY FUNCTIONAL CONDITION UNTIL NO LONGER REQUIRED FOR A COMPLETED PHASE OF WORK OR FINAL STABILIZATION OF THE SITE. ALL EROSION AND SEDIMENTATION CONTROL MEASURES SHALL BE CHECKED BY A QUALIFIED CONTRACTOR REPRESENTATIVE AT LEAST ONCE EVERY SEVEN CALENDAR DAYS AND WITHIN 24 HOURS OF THE END OF A 0.50" RAINFALL EVENT, AND CLEANED AND REPAIRED IN ACCORDANCE WITH THE FOLLOWING:
1. INLET PROTECTION DEVICES AND BARRIERS SHALL BE REPAIRED OR REPLACED IF THEY SHOW SIGNS OF UNDERMINING OR DETERIORATION.
 2. ALL TURF AREAS SHALL BE CHECKED REGULARLY TO SEE THAT A GOOD STAND IS MAINTAINED, AREAS SHOULD BE FERTILIZED, WATERED, AND RE-SEED AS NEEDED.
 3. PERIMETER EROSION CONTROL SYSTEMS SHALL BE REPAIRED TO THEIR ORIGINAL CONDITIONS IF DAMAGED. SEDIMENT SHALL BE REMOVED WHEN IT REACHES ONE-HALF THE HEIGHT OF THE CONTROL DEVICE.
 4. THE CONSTRUCTION ENTRANCES SHALL BE MAINTAINED IN A CONDITION WHICH WILL PREVENT TRACKING OR FLOW OF MUD ONTO ADJACENT PAVEMENTS. THIS MAY REQUIRE PERIODIC TOP DRESSING OF THE CONSTRUCTION ENTRANCES AS CONDITIONS DEMAND.



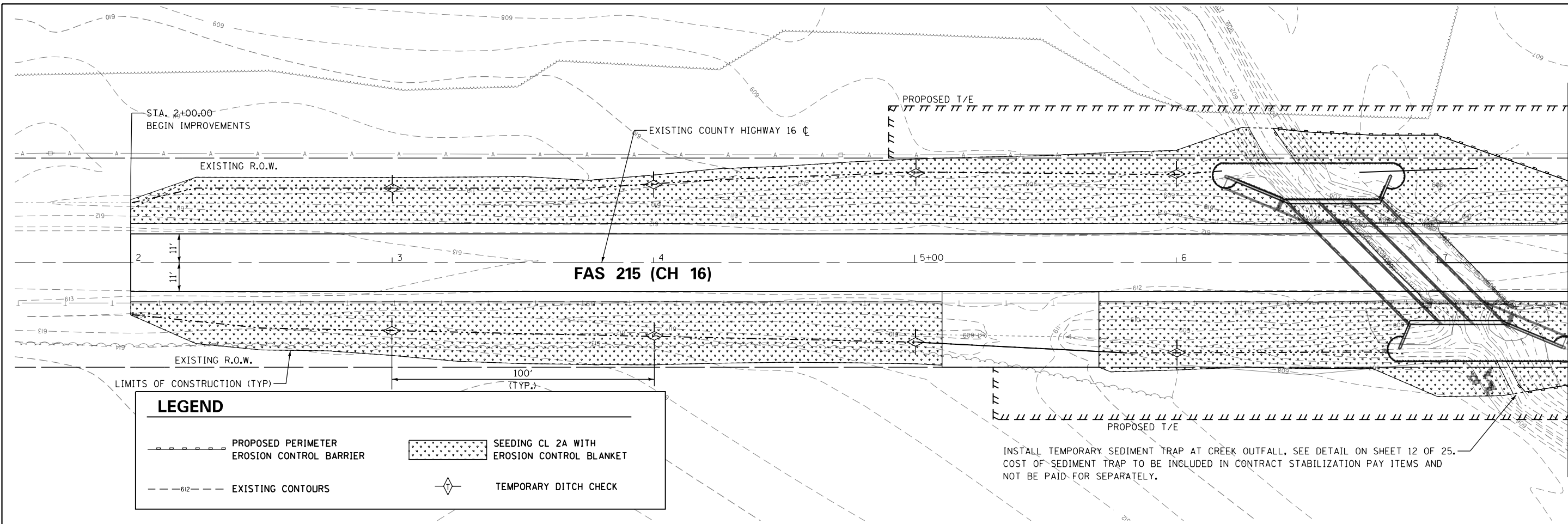
DISTURBED AREA SUMMARY

SEEDING AREA	0.82 AC
IMPERVIOUS AREA	0.69 AC
TOTAL DISTURBED AREA	1.51 AC

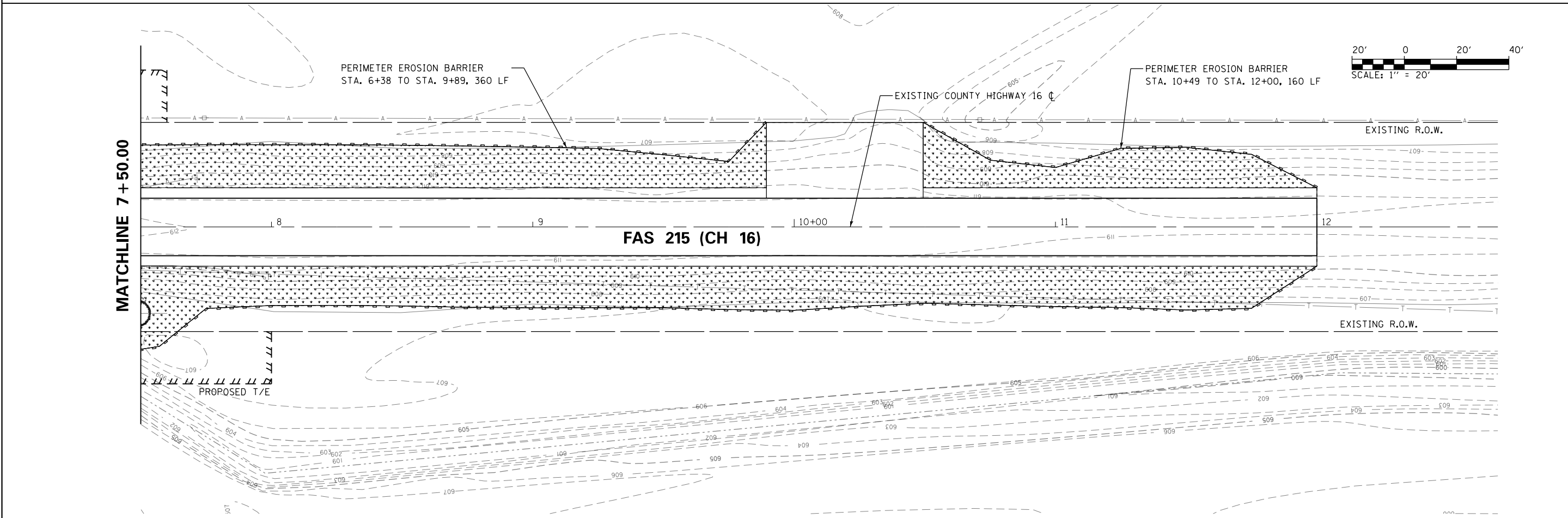


- NOTES:
1. Maintaining temporary concrete washout facilities shall include removing and disposing of hardened concrete and/or slurry and returning the facilities to a functional condition.
 2. Facility shall be cleaned or reconstructed in a new area once washout becomes two-thirds full.
 3. Each straw bale is to be staked in place using (2) 2"x2"x4' wooden stakes.

TEMPORARY CONCRETE WASHOUT FACILITY - STRAW BALE ILLINOIS URBAN MANUAL DETAIL IUM-654SB



MATCHLINE 7 + 50.00



MATCHLINE 7 + 50.00

DIRECTOR = Emily Munday



MODEL NAME =	DESIGNED - EMM	REVISED -
FILE NAME =	DRAWN - EMM	REVISED -
PLOT SCALE = 40.0000' / in.	CHECKED - EJM	REVISED -
PLOT DATE = 2/19/2020 8:31:41 AM	DATE - NOVEMBER 2018	REVISED -

**MERCER COUNTY HIGHWAY DEPARTMENT
MERCER COUNTY, ILLINOIS**

**COUNTY HIGHWAY 16 STRUCTURE REPLACEMENT
STORM WATER POLLUTION PREVENTION PLANS**

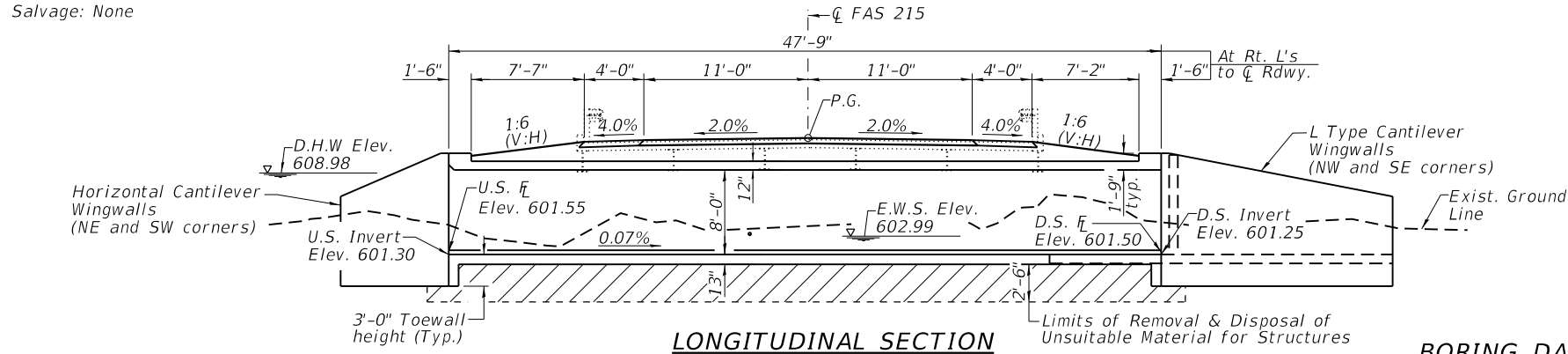
SCALE: 1" = 20" SHEET 2 OF 2 SHEETS STA. 2+00 TO STA. 12+00

F.A.S. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
215	16-00110-00-BR	MERCER	25	13
CONTRACT NO. 89719				
ILLINOIS FED. AID PROJECT				

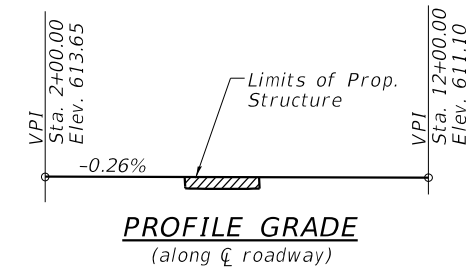
Bench Mark: Cotton Spindle in south face of utility pole on north side of CH 16, approximately 170' west of the bridge
Elev. 610.93

Existing Structure: S.N. 066-3041 is a single span, steel beam and reinforced concrete deck bridge constructed in 1938. Substructure consists of timber abutments supported on timber piles. Back to back of abutments measures 32'-0" and out to out width of 32'-0". Roadway will be closed and traffic will be detoured during construction.

Salvage: None



LONGITUDINAL SECTION



PROFILE GRADE
(along centerline roadway)

WATERWAY INFORMATION

Drainage Area = 4.1 Sq. Mi. Low Grade Elev. = 611.10 @ Sta. 12+00.00

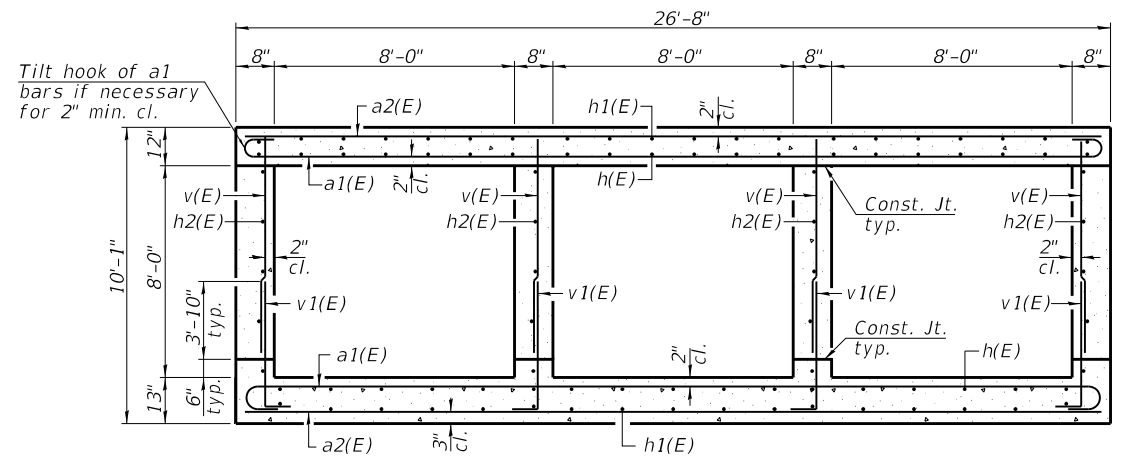
Flood	Freq. Yr.	Q C.F.S.	Opening Sq. Ft.		Nat. Head - Ft.		Headwater El.		
			Exist.	Prop.	H.W.E.	Exist.	Prop.	Exist.	Prop.
Design	20	1,060	146	177	608.68	1.02	0.81	609.70	609.49
Base	100	1,390	152	185	608.98	1.77	1.14	610.75	610.12
Max. Calc.	500	2,090	160	192	609.50	2.99	1.93	612.49	611.43
			160	192	609.97	2.93	2.44	612.90	612.41

BORING DATA

BORING NO.	STATION	OFFSET
#1	7+10.85	7.08' Lt.
#2	6+78.96	5.63' Rt.

DESIGN SCOUR ELEVATION TABLE

Design Scour Elevation (ft.)	U.S. Invert	D.S. Invert
		598.30



SECTION THRU BARREL

NAME PLATE
See Std. 515001
(Locate Name Plate on North Headwall)

INDEX OF SHEETS

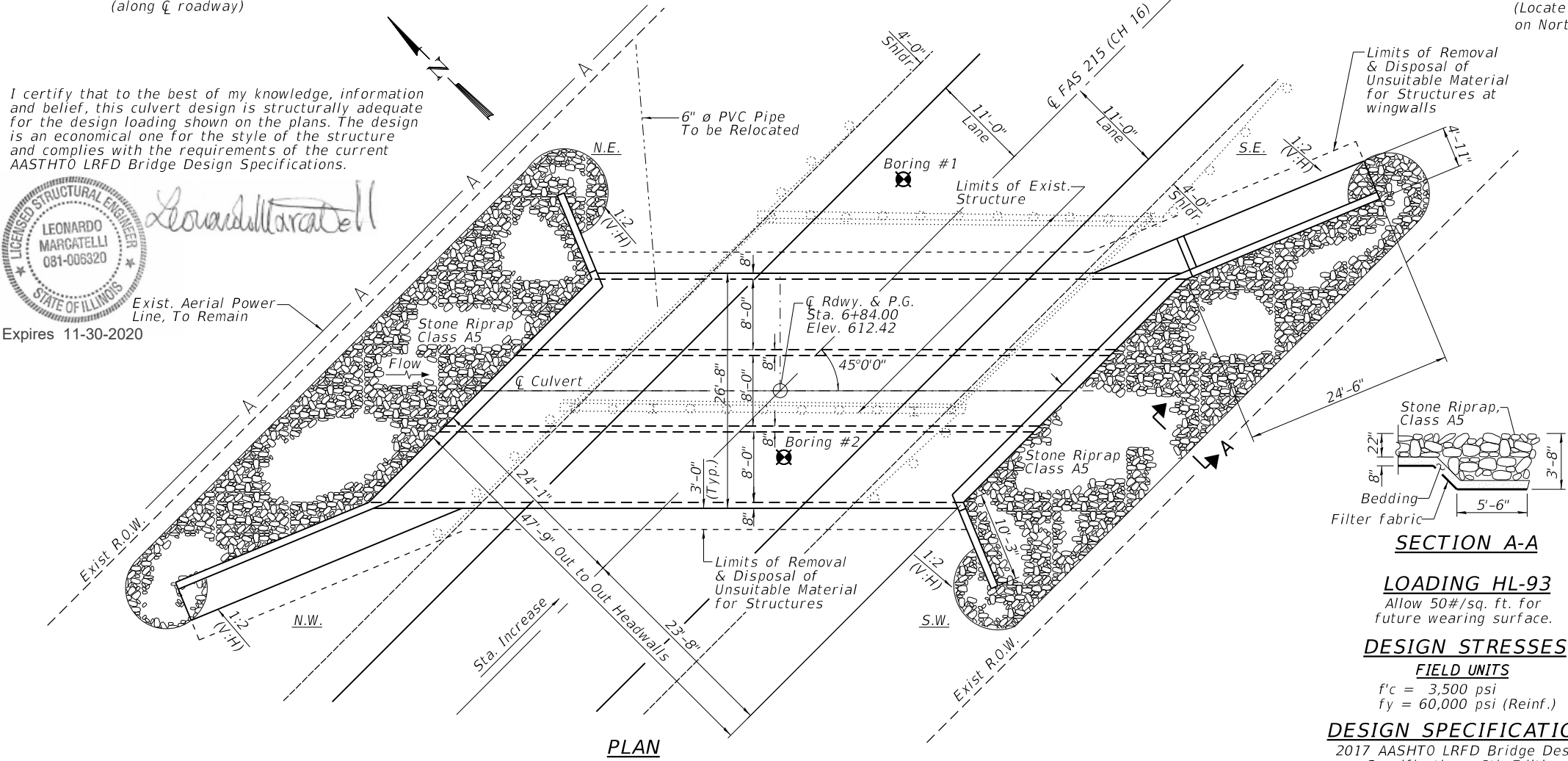
SHEET NO.	TITLE
1.	General Plan
2.	Culvert Details 1
3.	Culvert Details 2
4.	Soil Boring 1
5.	Soil Boring 2

TOTAL BILL OF MATERIAL

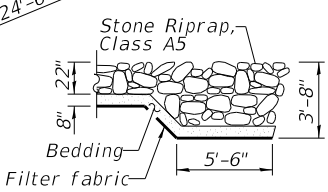
ITEM	UNIT	QUANTITY
Porous Granular Embankment	Cu. Yd.	709
Geotechnical Fabric for Ground Stabilization	Sq. Yd.	521
Stone Riprap, Class A5	Sq. Yd.	190
Filter Fabric	Sq. Yd.	190
Removal of Existing Structures	Each	1
Structure Excavation	Cu. Yd.	581
Removal and Disposal of Unsuitable Material for Structures	Cu. Yd.	263
Reinforcement Bars, Epoxy Coated	Pound	56,280
Concrete Box Culverts	Cu. Yd.	234.3
Membrane Waterproofing Systems for Buried Structures	Sq. Yd.	231
Rock Fill	Ton	543
Name Plate	Each	1

I certify that to the best of my knowledge, information and belief, this culvert design is structurally adequate for the design loading shown on the plans. The design is an economical one for the style of the structure and complies with the requirements of the current AASHTO LRFD Bridge Design Specifications.

LEONARDO MARCATELLI
LICENSED STRUCTURAL ENGINEER
STATE OF ILLINOIS
081-006320
Expires 11-30-2020



PLAN

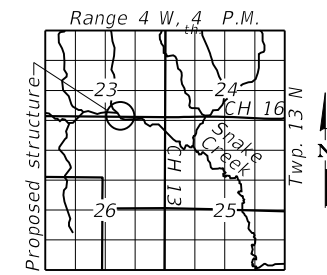


SECTION A-A

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

DESIGN STRESSES
FIELD UNITS
f'c = 3,500 psi
fy = 60,000 psi (Reinf.)

DESIGN SPECIFICATIONS
2017 AASHTO LRFD Bridge Design Specifications, 8th Edition



LOCATION SKETCH

GENERAL PLAN
FAS 215 (CH 16)
OVER SNAKE CREEK
SECTION 16-00110-00-BR
MERCER COUNTY
STATION 6+84.00
STRUCTURE NO. 066-3166

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USER NAME	DESIGNED	REVISIONS
	LM	
	DAC	
	GLD	
	LM	

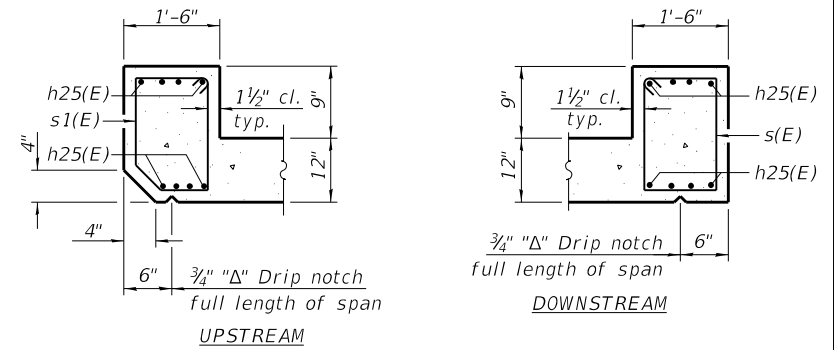
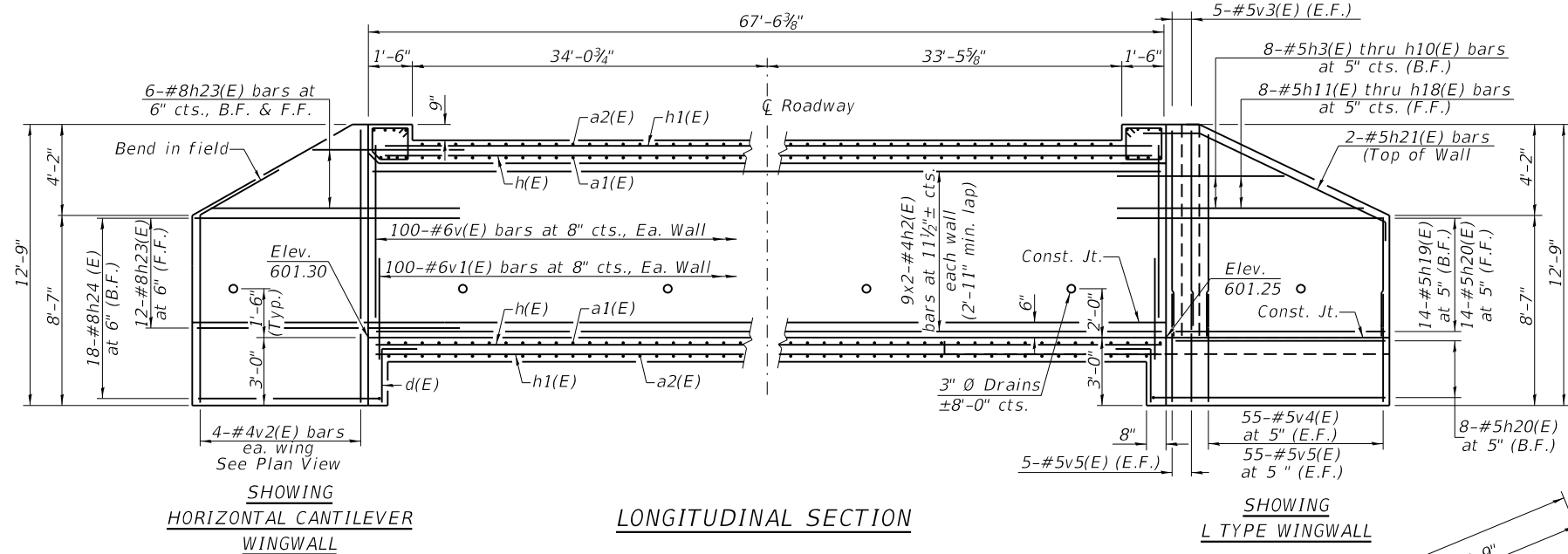
STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

COUNTY HIGHWAY 16 STRUCTURE REPLACEMENT
GENERAL PLAN - STRUCTURE NO. 066-3166

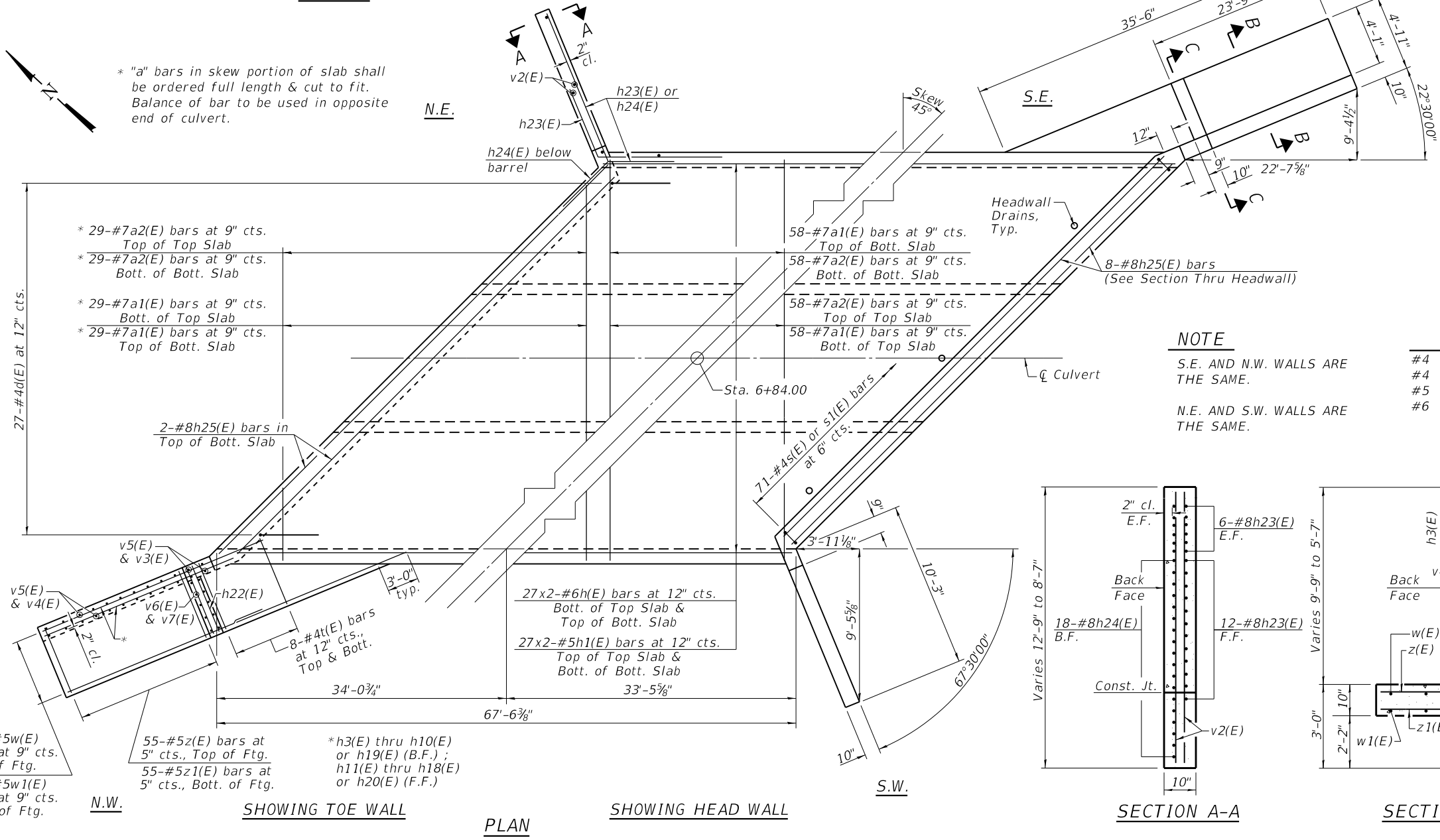
SHEET NO. OF SHEETS

F.A.S. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
215	16-00110-00-BR	MERCER	25	14

CONTRACT NO. ILLINOIS FED. AID PROJECT



* "a" bars in skew portion of slab shall be ordered full length & cut to fit. Balance of bar to be used in opposite end of culvert.



CORNER DETAIL
(N.W. & S.E. Corners)

NOTE

S.E. AND N.W. WALLS ARE THE SAME.

N.E. AND S.W. WALLS ARE THE SAME.

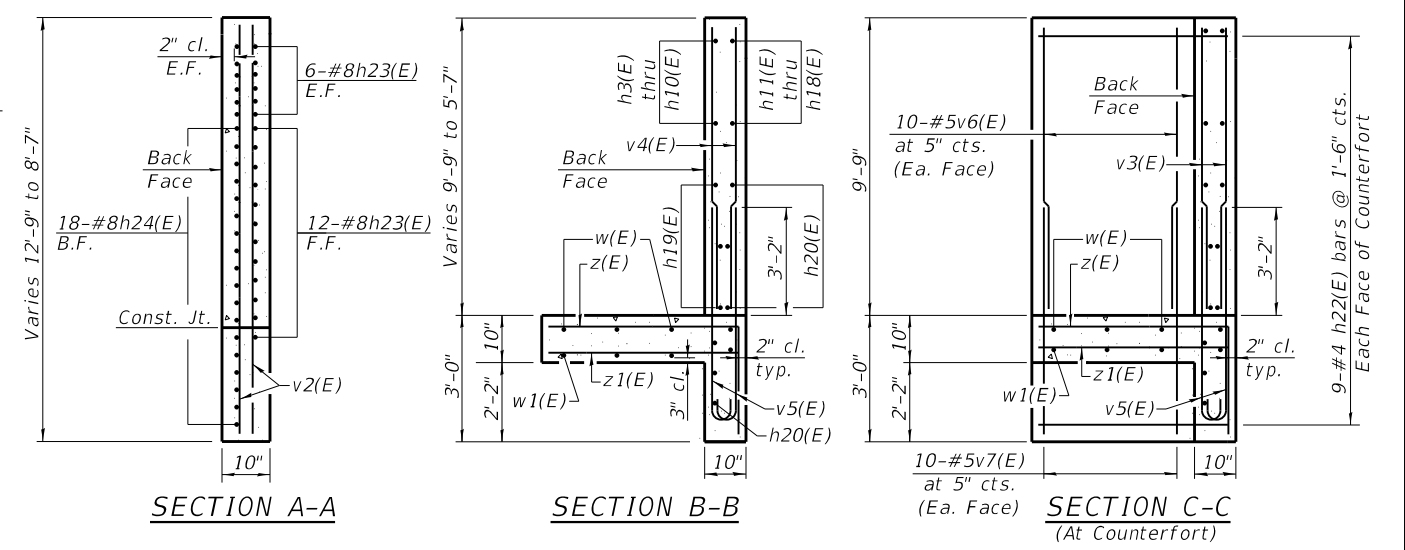
MIN. LAP

#4 = 2'-7"

#4 = 2'-11" (Sidewalls)

#5 = 3'-2"

#6 = 3'-10"



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USER NAME =	DESIGNED - LM	REVISED -
PLOT SCALE =	CHECKED - DAC	REVISED -
PLOT DATE	DRAWN - GLD	REVISED -
	CHECKED - LM	REVISED -

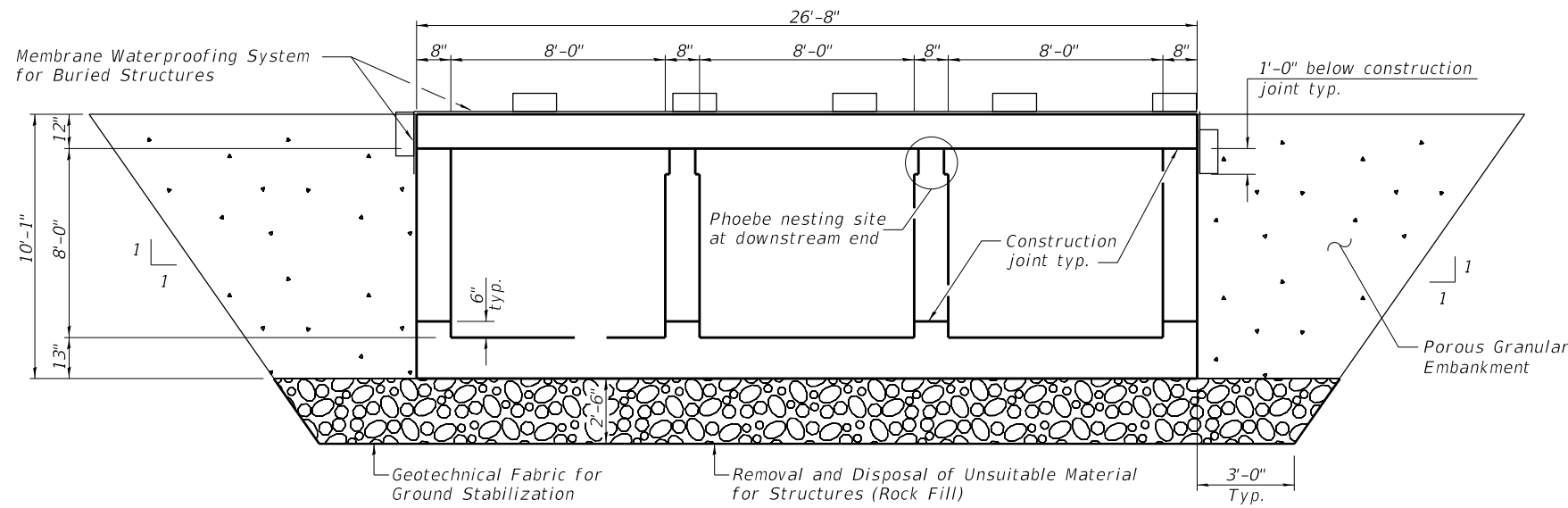
STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

CULVERT DETAILS 1
STRUCTURE NO. 066-3166

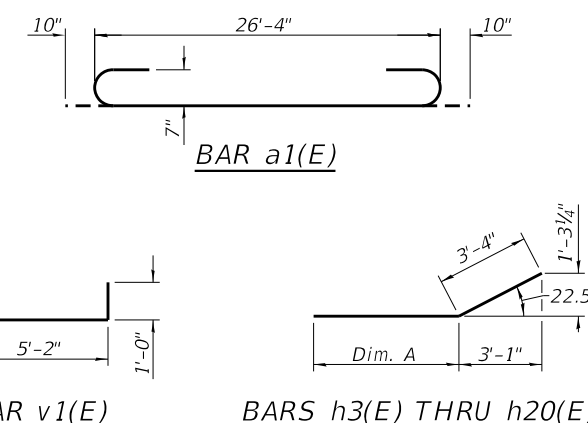
SHEET NO. OF SHEETS

F.A.S. RT.E.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
215	16-0010-00-BR	MERCER	25	15
CONTRACT NO.				

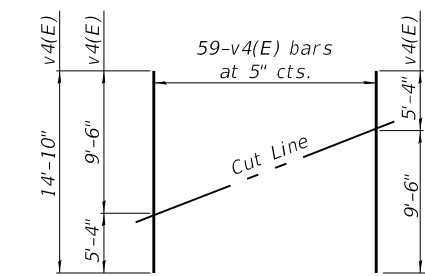
ILLINOIS FED. AID PROJECT



SECTION THRU BARREL
(Dimensions at rt. angle to barrel)



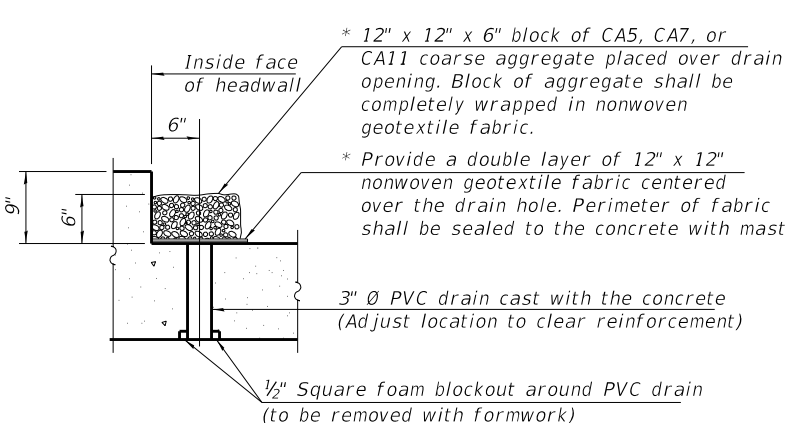
BAR	Dim. A
h3(E)	8'-1"
h4(E)	10'-5"
h5(E)	12'-8"
h6(E)	15'-0"
h7(E)	17'-3"
h8(E)	19'-7"
h9(E)	21'-11"
h10(E)	24'-2"
h11(E)	6'-4"
h12(E)	8'-8"
h13(E)	10'-11"
h14(E)	13'-3"
h15(E)	15'-6"
h16(E)	17'-10"
h17(E)	20'-2"
h18(E)	22'-5"
h19(E)	26'-1"
h20(E)	24'-4"



FIELD CUTTING DIAGRAM
Order bars shown full length. Cut as shown and use remainder of bars in opposite wingwall.

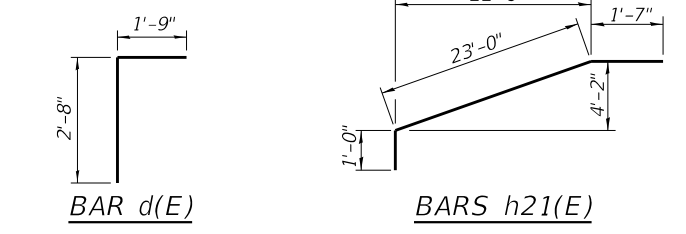
BILL OF MATERIAL

Bar	No.	Size	Length	Shape
a1(E)	174	#7	28'-0"	U
a2(E)	174	#7	26'-4"	—
d(E)	54	#4	4'-5"	L
h(E)	108	#6	35'-6"	—
h1(E)	108	#5	35'-2"	—
h2(E)	72	#4	35'-0"	—
h3(E)	2	#5	11'-5"	—
h4(E)	2	#5	13'-9"	—
h5(E)	2	#5	16'-0"	—
h6(E)	2	#5	18'-4"	—
h7(E)	2	#5	20'-7"	—
h8(E)	2	#5	22'-11"	—
h9(E)	2	#5	25'-3"	—
h10(E)	2	#5	27'-6"	—
h11(E)	2	#5	9'-8"	—
h12(E)	2	#5	12'-0"	—
h13(E)	2	#5	14'-3"	—
h14(E)	2	#5	16'-7"	—
h15(E)	2	#5	18'-10"	—
h16(E)	2	#5	21'-2"	—
h17(E)	2	#5	23'-6"	—
h18(E)	2	#5	25'-9"	—
h19(E)	28	#5	29'-5"	—
h20(E)	44	#5	27'-8"	—
h21(E)	4	#5	25'-7"	—
h22(E)	36	#4	4'-7"	—
h23(E)	48	#8	8'-0"	—
h24(E)	36	#8	13'-0"	—
h25(E)	20	#8	35'-0"	—
s(E)	71	#4	6'-3"	U
s1(E)	71	#4	6'-2"	U
t(E)	32	#4	4'-7"	—
v(E)	400	#6	8'-4"	—
v1(E)	400	#6	6'-2"	L
v2(E)	8	#4	12'-5"	—
v3(E)	24	#5	9'-7"	—
v4(E)	110	#5	14'-10"	—
v5(E)	240	#5	7'-0"	—
v6(E)	40	#5	9'-7"	—
v7(E)	40	#5	6'-10"	—
w(E)	28	#5	20'-8"	—
w1(E)	28	#5	20'-8"	—
z(E)	110	#5	7'-3"	—
z1(E)	110	#5	4'-7"	—
Concrete Box Culverts	Cu. Yd.		234.3	
Reinforcement Bars, Epoxy Coated	Pound		56,280	

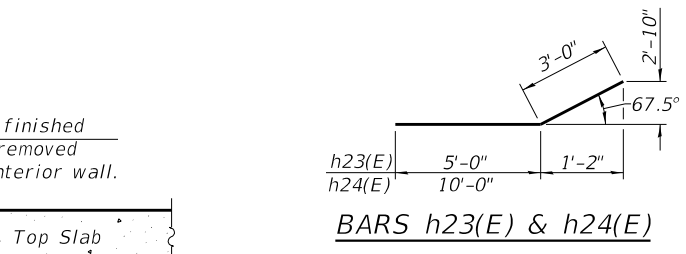


DRAIN DETAIL

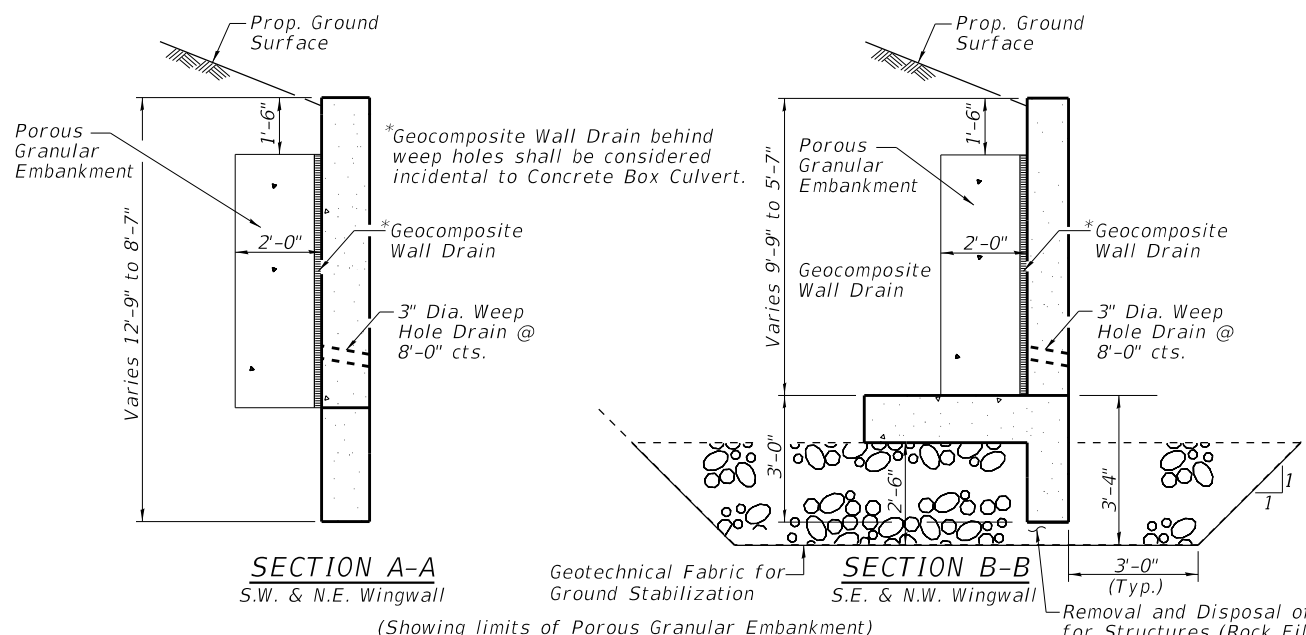
(All costs associated with furnishing and constructing the above drain detail will not be measured for payment but shall be included in the contract unit price for the associated work.)



BAR d(E) **BARS h21(E)**

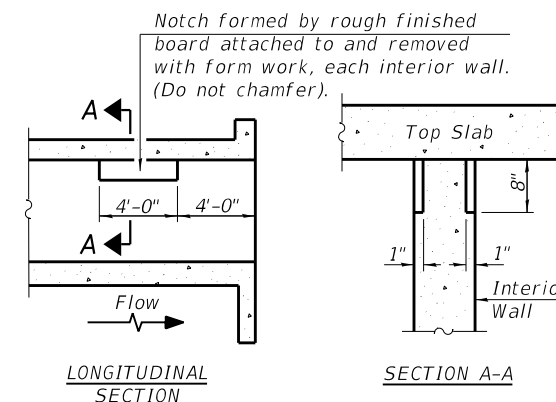


BARS h23(E) & h24(E) **BAR s(E)** **BAR s1(E)** **BAR v5(E)** **BAR z(E)**



SECTION A-A
S.W. & N.E. Wingwall
(Showing limits of Porous Granular Embankment)

SECTION B-B
S.E. & N.W. Wingwall
(Showing limits of Porous Granular Embankment)



PHOEBE NESTING SITE DETAILS
(Downstream End Only)

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USER NAME =	DESIGNED - LM	REVISED -
PLOT SCALE =	CHECKED - DAC	REVISED -
PLOT DATE	DRAWN - GLD	REVISED -
	CHECKED - LM	REVISED -

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

CULVERT DETAILS 2
STRUCTURE NO. 066-3166

F.A.S. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
215	16-00110-00-BR	MERCER	25	16
CONTRACT NO.				
ILLINOIS FED. AID PROJECT				

SHEET NO. OF SHEETS

ILLINOIS DEPARTMENT OF TRANSPORTATION
Ramsey Geotechnical Engineering
STRUCTURE BORING LOG

Page 1 of 2
Date 1/22/18

ROUTE FAS 215 DESCRIPTION C.H. 16 Bridge Over Snake Creek

SECT. 16-00110-00-BR STRUCT. NO. 066-3166 DRILLED BY B. Williamson

COUNTY Mercer LOCATION Seaton S. 23, TWP. 13N, RNG. 4W

Boring No. B-2 West Abutment
Station 6+78.96
Offset 5.63ft RT
Surface Elev. 612.10 ft
Surface Water Elev. 586.60
Groundwater Elev. when drilling 547.1
at Completion 547.1

Depth (ft)	Soil Description	Penetration (P)	Shear (S)	Bulge (B)	W (%)	Qu (tsf)
611.40	Asphalt Pavement					
611.10	Aggregate Base					
609.10	Stiff dark brown SILTY CLAY LOAM	7	1.0	P 30		
		10				
		8				
606.60	Stiff brown-dark brown SILTY CLAY LOAM	2	1.5	P 25		
		5				
		5				
604.10	Stiff dark brown SILTY CLAY LOAM	2	1.0	P 30		
		2				
		4				
601.60	Medium stiff gray-brown SILTY CLAY LOAM	2	0.75	P 27		
		2				
		3				
601.60	Very soft brown-gray SILTY LOAM	0	0.25	P 31		
		1				
		1				
596.60	Very soft brown SILTY LOAM	0	0.25	P 26		
		2				
		2				
594.10	Stiff brown-gray SILTY LOAM	1	1.35	B 18		
		3				
		4				
591.60	Medium stiff to stiff brown-gray SILTY LOAM	2	0.94	B 18		
		3				
		3				
		1				
		3	1.48	B 15		
		4				

SPT. (N) = Sum of last two blow values in sample. (Qu) B=Bulge S=Shear P=Penetration Test
Stations, Depths, Offset, and Elevations are in Feet

ILLINOIS DEPARTMENT OF TRANSPORTATION
Ramsey Geotechnical Engineering
STRUCTURE BORING LOG

Page 2 of 2
Date 1/22/18

STRUCTURE NO. 066-3166
ROUTE FAS 215
SECTION 16-00110-00-BR
COUNTY Mercer

Boring No. B-2 West Abutment
Station 6+78.96
Offset 5.63ft RT
Elevation 562.10 ft

Depth (ft)	Soil Description	Penetration (P)	Shear (S)	Bulge (B)	W (%)	Qu (tsf)
	Very stiff gray SILTY LOAM					
		2		B 12		
		5				
		8				
		2		B 13		
		3				
		5	1.76			
		2		B 12		
		3				
		5	1.93			
		0				
		1				
		1				
		0				
		2				
		2				
		2				
		0				
		2				
		2				
		0				
		2				
		2				
		1				
		3				
		4				
		1				
		4				
		6				
		1				
		4				
		7				

18" Thick fine sand seam at
63'

End of Boring at 65'

SPT. (N) = Sum of last two blow values in sample. (Qu) B=Bulge S=Shear P=Penetration Test
Stations, Depths, Offset, and Elevations are in Feet

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USER NAME =	DESIGNED - CJW	REVISED -
	CHECKED - LM	REVISED -
PLOT SCALE =	DRAWN - GLD	REVISED -
	CHECKED - LM	REVISED -

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

SOIL BORING 2
STRUCTURE NO. 066-3166

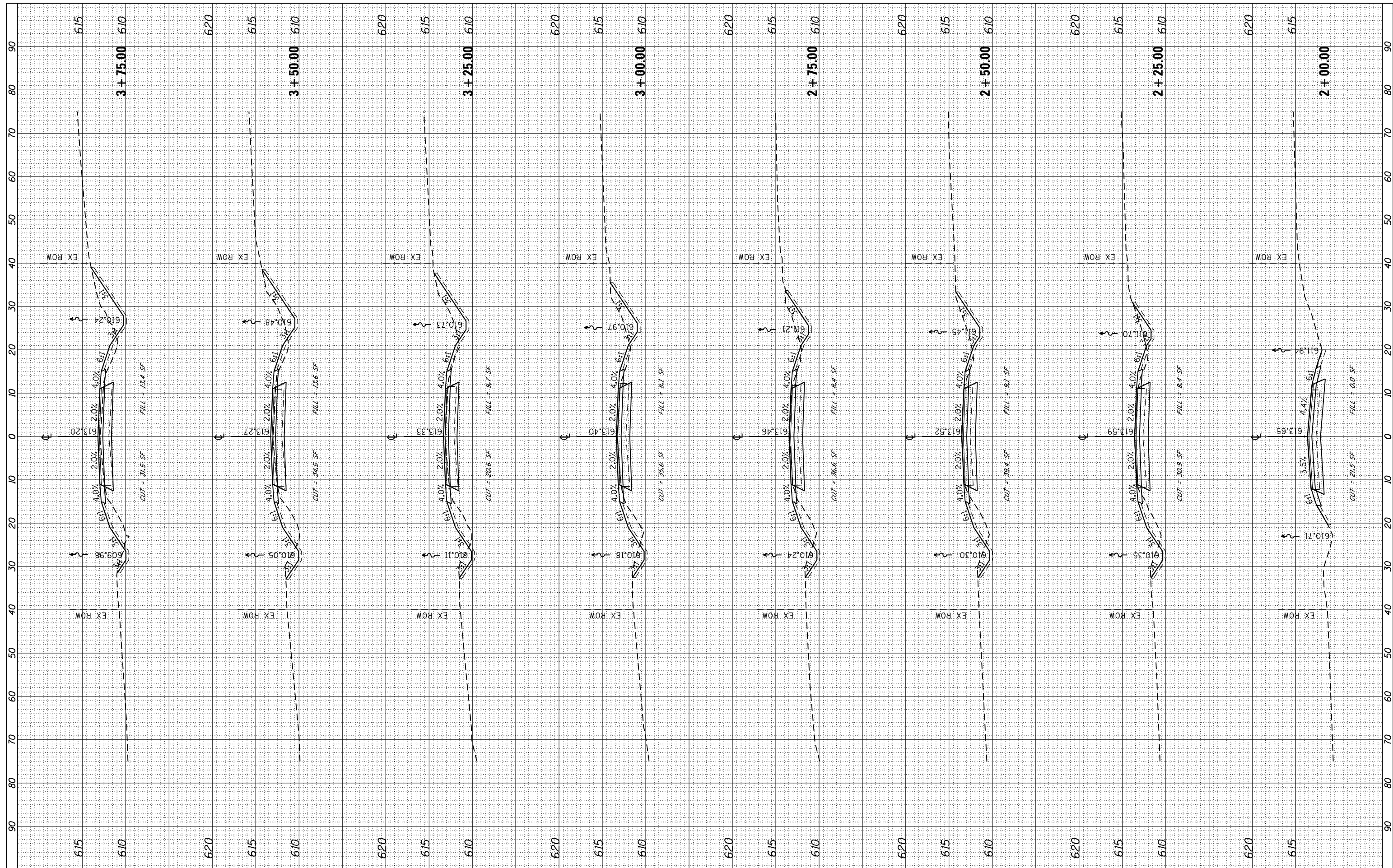
SHEET NO. OF SHEETS

F.A.S. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
215	16-00110-00-BR	MERCER	25	18

CONTRACT NO. ILLINOIS FED. AID PROJECT

FINAL SURVEY NO.	SURVEYED PLOTTED AREAS CHECKED	BY	DATE

ORIGINAL SURVEY NO.	SURVEYED PLOTTED AREAS CHECKED	BY	DATE



USER NAME = Emily Munday	DESIGNED - EMM	REVISED -
PLOT SCALE = 20.0000' / in.	DRAWN - ECW	REVISED -
PLOT DATE = 2/19/2020 8:32:34 AM	CHECKED - EJM	REVISED -
	DATE - NOVEMBER 2018	REVISED -

**MERCER COUNTY HIGHWAY DEPARTMENT
MERCER COUNTY, ILLINOIS**

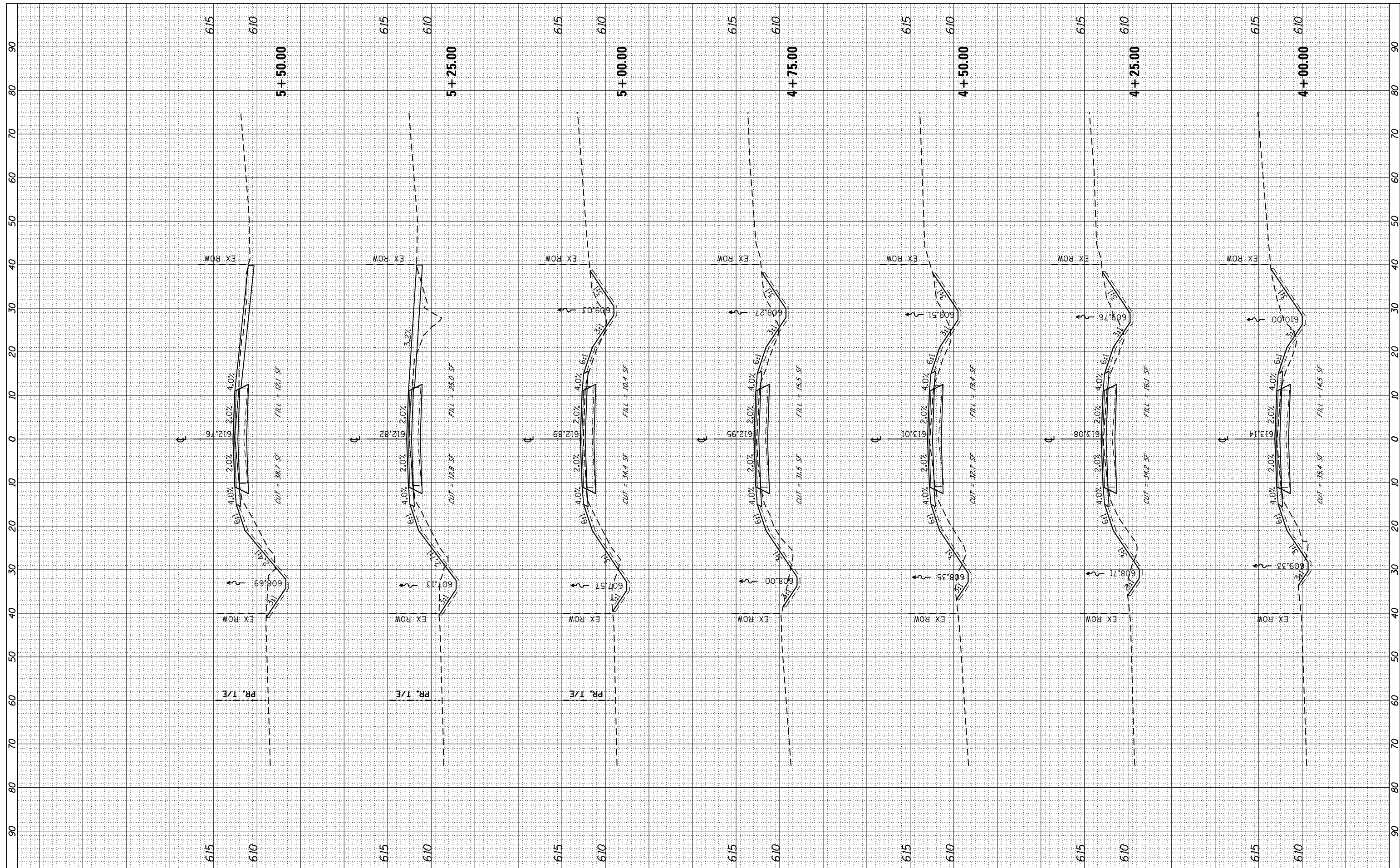
**COUNTY HIGHWAY 16 STRUCTURE REPLACEMENT
CROSS SECTIONS**

SCALE: 1" = 10' SHEET 1 OF 7 SHEETS STA. 2+00.00 TO STA. 3+75.00

F.A.S. RTE. 215	SECTION 16-00110-00-BR	COUNTY MERCER	TOTAL SHEETS 25	SHEET NO. 19
				CONTRACT NO. 89719
ILLINOIS FED. AID PROJECT				

FINAL SURVEY NO.	SURVEYED PLOTTED TEMPLATE AREAS CHECKED
DATE	
BY	

ORIGINAL SURVEY NO.	SURVEYED PLOTTED TEMPLATE AREAS CHECKED
DATE	
BY	



USER NAME = Emily Munday
 PLOT SCALE = 20.0000' / in.
 PLOT DATE = 2/19/2020 8:32:35 AM

DESIGNED - EMM
 DRAWN - ECW
 CHECKED - EJM
 DATE - NOVEMBER 2018

REVISED -
 REVISED -
 REVISED -
 REVISED -

MERCER COUNTY HIGHWAY DEPARTMENT
 MERCER COUNTY, ILLINOIS

COUNTY HIGHWAY 16 STRUCTURE REPLACEMENT
 CROSS SECTIONS

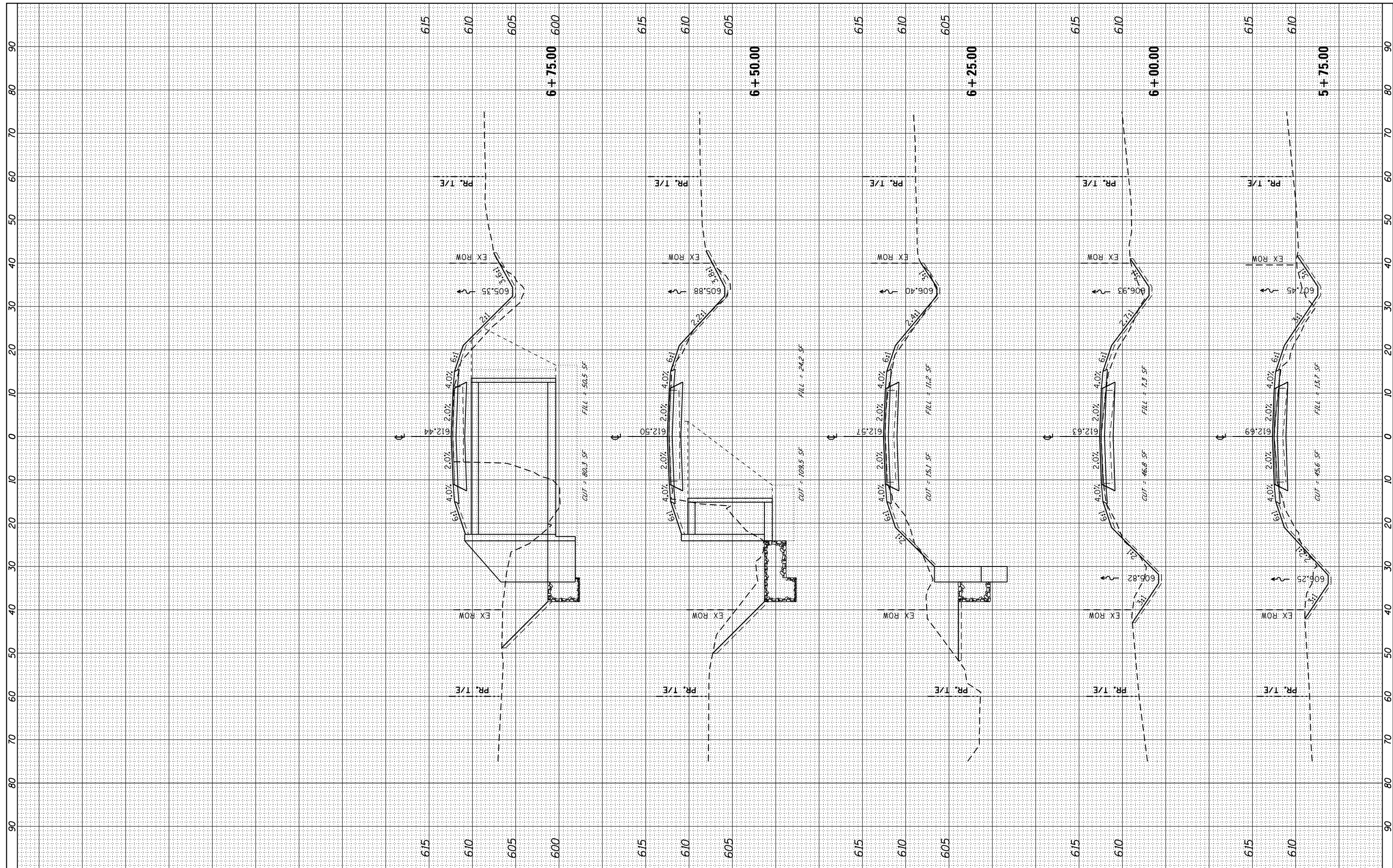
SCALE: 1" = 10' SHEET 2 OF 7 SHEETS STA. 4+00.00 TO STA. 5+50.00

F.A.S. RTE. 215	SECTION 16-00110-00-BR	COUNTY MERCER	TOTAL SHEETS 25	SHEET NO. 20
CONTRACT NO. 89719				

ILLINOIS FED. AID PROJECT

FINAL SURVEY	SURVEYED	BY	DATE
NOTE BOOK	PLOTTED		
NO.	TEMPLATE		
	AREAS		
	CHECKED		

ORIGINAL SURVEY	SURVEYED	BY	DATE
NOTE BOOK	PLOTTED		
NO.	TEMPLATE		
	AREAS		
	CHECKED		



USER NAME = Emily Munday
 PLOT SCALE = 20.0000' / in.
 PLOT DATE = 2/19/2020 8:32:35 AM

DESIGNED - EMM
 DRAWN - ECW
 CHECKED - EJM
 DATE - NOVEMBER 2018

REVISED -
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 REVISED -

MERCER COUNTY HIGHWAY DEPARTMENT
 MERCER COUNTY, ILLINOIS

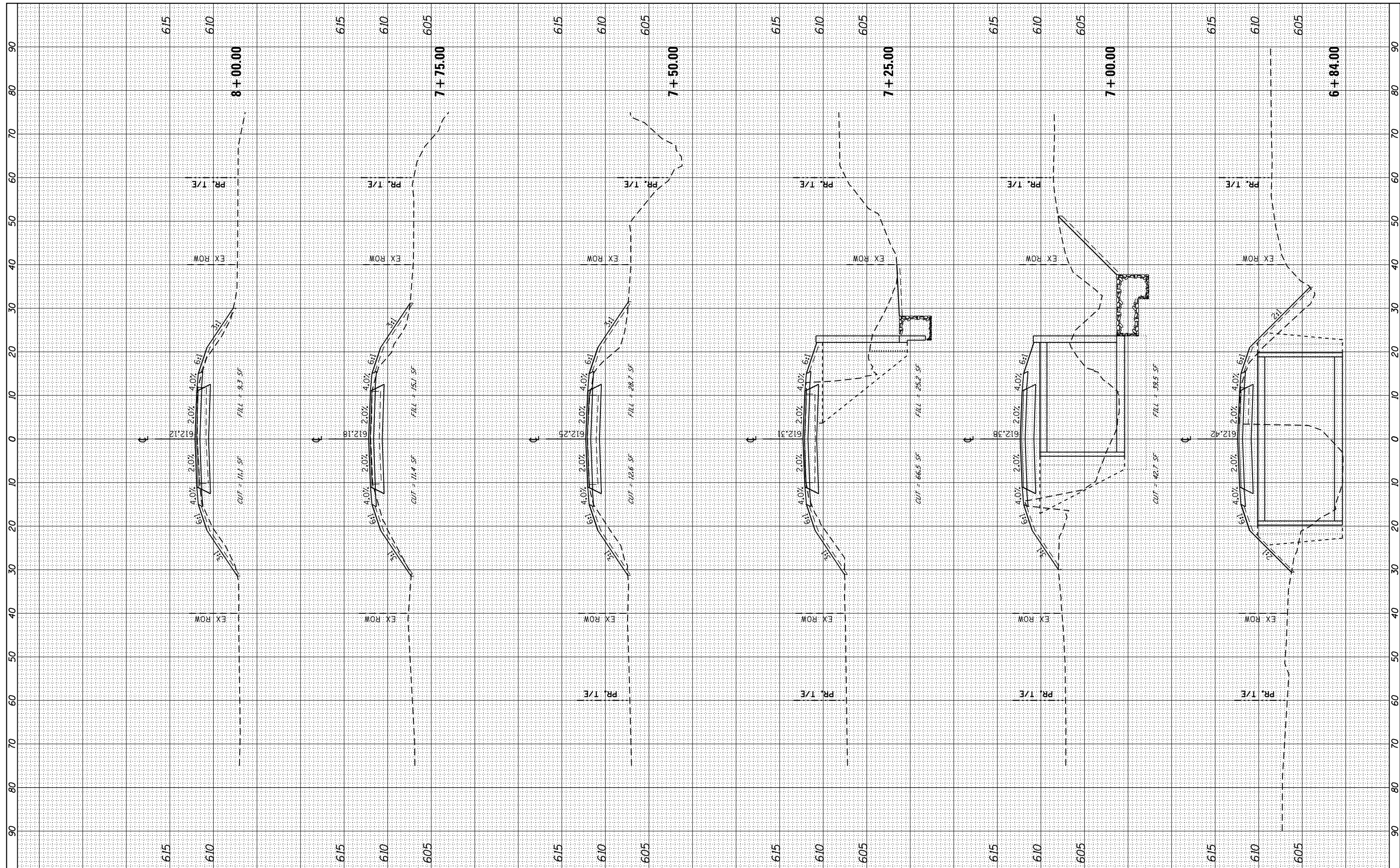
COUNTY HIGHWAY 16 STRUCTURE REPLACEMENT
 CROSS SECTIONS

SCALE: 1" = 10' SHEET 3 OF 7 SHEETS STA. 5+75.00 TO STA. 6+75.00

F.A.S. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
215	16-0010-00-BR	MERCER	25	21
CONTRACT NO. 89719				

FINAL SURVEY	SURVEYED	DATE
NO. _____	PLOTTED	_____
	TEMPLATE	_____
	AREAS	_____
	CHECKED	_____

ORIGINAL SURVEY	SURVEYED	DATE
NO. _____	PLOTTED	_____
	TEMPLATE	_____
	AREAS	_____
	CHECKED	_____



USER NAME = Emily Munday
 PLOT SCALE = 20.0000' / in.
 PLOT DATE = 2/19/2020 8:32:36 AM

DESIGNED - EMM
 DRAWN - ECW
 CHECKED - EJM
 DATE - NOVEMBER 2018

REVISED -
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 REVISED -
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**MERCER COUNTY HIGHWAY DEPARTMENT
 MERCER COUNTY, ILLINOIS**

**COUNTY HIGHWAY 16 STRUCTURE REPLACEMENT
 CROSS SECTIONS**

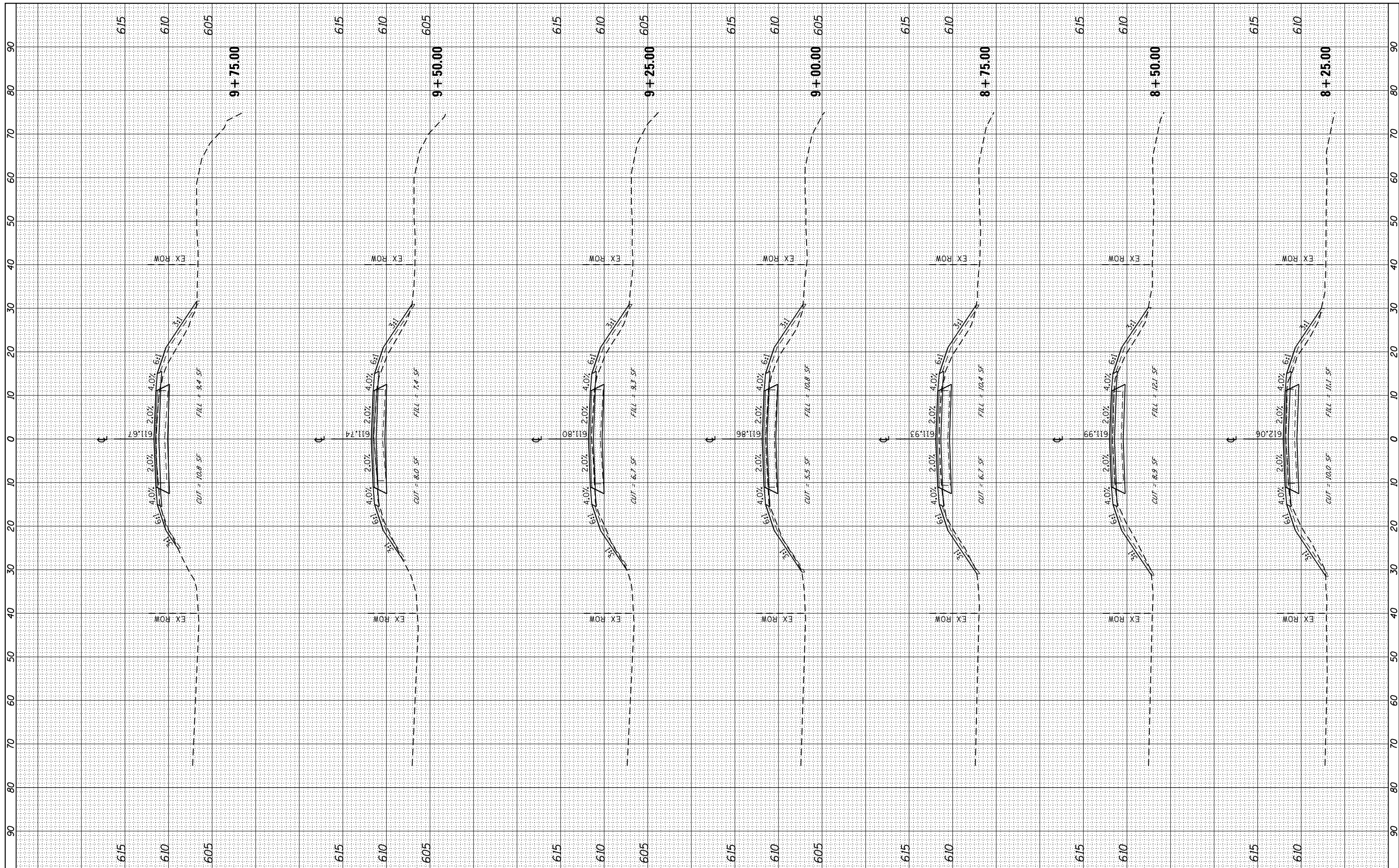
SCALE: 1" = 10' SHEET 4 OF 7 SHEETS STA. 6+84.00 TO STA. 8+00.00

F.A.S. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
215	16-00110-00-BR	MERCER	25	22
CONTRACT NO. 89719				

ILLINOIS FED. AID PROJECT

FINAL SURVEY NO.	SURVEYED PLOTTED TEMPLATE AREAS CHECKED	BY	DATE

ORIGINAL SURVEY NO.	SURVEYED PLOTTED TEMPLATE AREAS CHECKED	BY	DATE



USER NAME = Emily Munday
 PLOT SCALE = 20.0000' / in.
 PLOT DATE = 2/19/2020 8:32:36 AM

DESIGNED - EMM
 DRAWN - ECW
 CHECKED - EJM
 DATE - NOVEMBER 2018

REVISED -
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 REVISED -

**MERCER COUNTY HIGHWAY DEPARTMENT
 MERCER COUNTY, ILLINOIS**

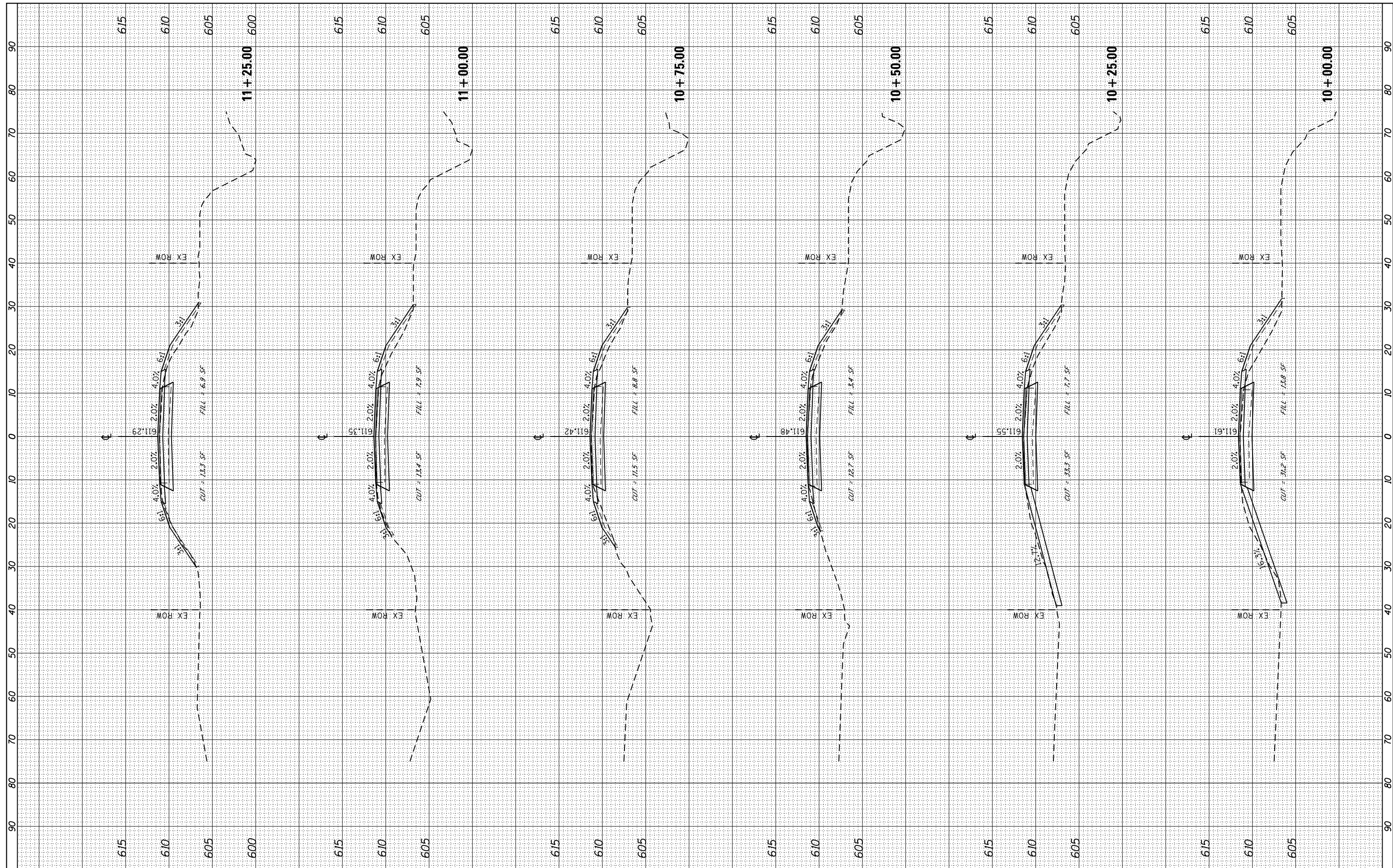
**COUNTY HIGHWAY 16 STRUCTURE REPLACEMENT
 CROSS SECTIONS**

SCALE: 1" = 10' SHEET 5 OF 7 SHEETS STA. 8+25.00 TO STA. 9+75.00

F.A.S. RTE. 215	SECTION 16-00110-00-BR	COUNTY MERCER	TOTAL SHEETS 25	SHEET NO. 23
CONTRACT NO. 89719				
ILLINOIS FED. AID PROJECT				

FINAL SURVEY NO.	SURVEYED	DATE
NOTE BOOK	PLOTTED	
AREAS CHECKED	TEMPLATE	
	AREAS CHECKED	

ORIGINAL SURVEY NO.	SURVEYED	DATE
NOTE BOOK	PLOTTED	
AREAS CHECKED	TEMPLATE	
	AREAS CHECKED	



USER NAME = Emily Munday
 PLOT SCALE = 20.0000' / in.
 PLOT DATE = 2/19/2020 8:32:37 AM

DESIGNED - EMM
 DRAWN - ECW
 CHECKED - EJM
 DATE - NOVEMBER 2018

REVISED -
 REVISED -
 REVISED -
 REVISED -

**MERCER COUNTY HIGHWAY DEPARTMENT
 MERCER COUNTY, ILLINOIS**

**COUNTY HIGHWAY 16 STRUCTURE REPLACEMENT
 CROSS SECTIONS**

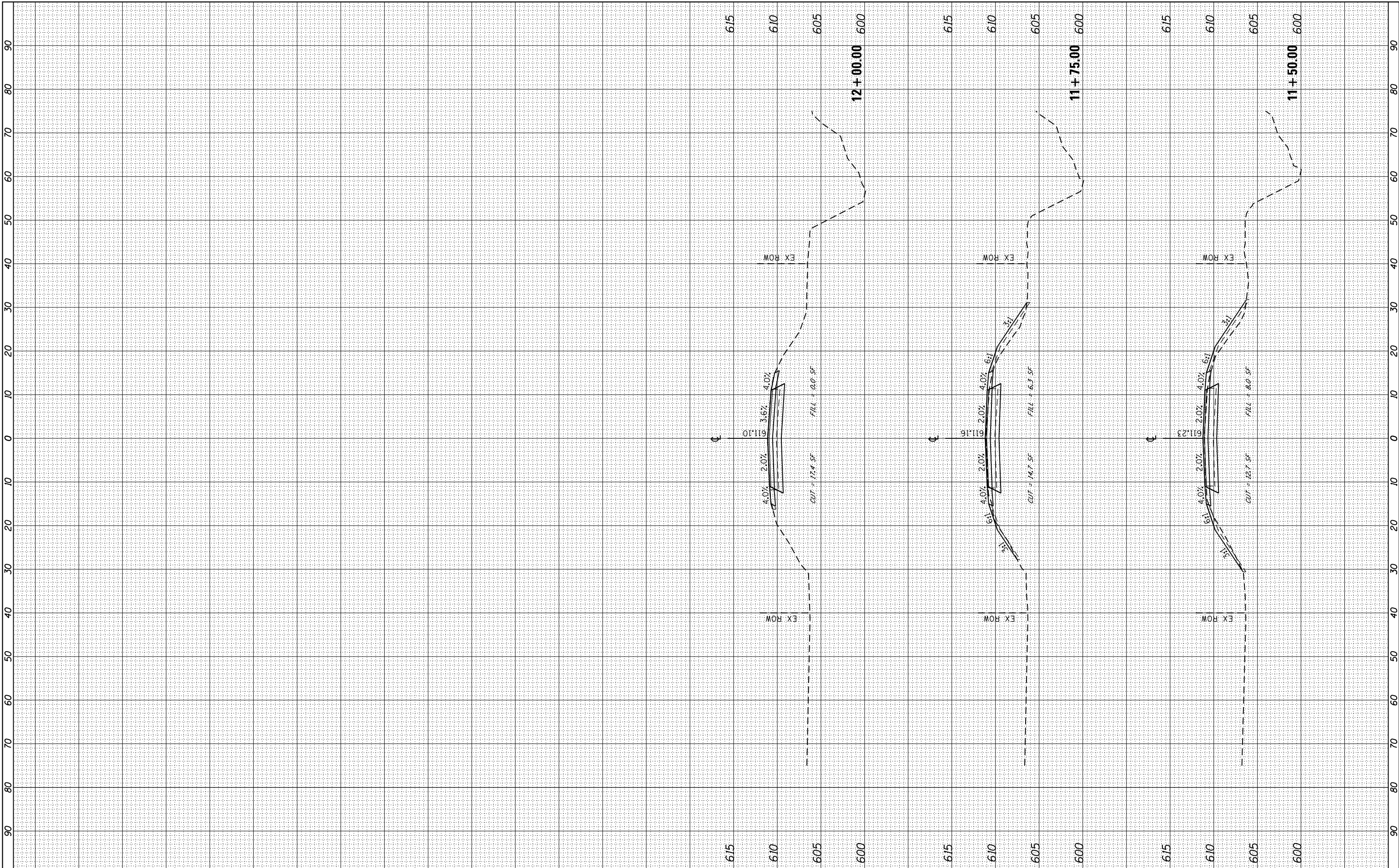
SCALE: 1" = 10' SHEET 6 OF 7 SHEETS STA. 10+00.00 TO STA. 11+25.00

F.A.S. RTE. 215	SECTION 16-00110-00-BR	COUNTY MERCER	TOTAL SHEETS 25	SHEET NO. 24
CONTRACT NO. 89719				

ILLINOIS FED. AID PROJECT

FINAL SURVEY NO.	SURVEYED PLOTTED	BY	DATE
	TEMPLATE AREAS CHECKED		

ORIGINAL SURVEY NO.	SURVEYED PLOTTED	BY	DATE
	TEMPLATE AREAS CHECKED		



USER NAME = Emily Munday
 DESIGNED - EMM
 DRAWN - ECW
 CHECKED - EJH
 DATE - NOVEMBER 2018
 PLOT SCALE = 20.0000" / in.
 PLOT DATE = 2/19/2020 8:32:37 AM

REVISIONS
 REVISION NO. | DATE | BY | DESCRIPTION
 1 | | | |
 2 | | | |
 3 | | | |

**MERCER COUNTY HIGHWAY DEPARTMENT
 MERCER COUNTY, ILLINOIS**

**COUNTY HIGHWAY 16 STRUCTURE REPLACEMENT
 CROSS SECTIONS**

SCALE: 1" = 10' SHEET 7 OF 7 SHEETS STA. 11+50.00 TO STA. 12+00.00

F.A.S. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
215	16-00110-00-BR	MERCER	25	25
CONTRACT NO. 89719				

ILLINOIS FED. AID PROJECT