

06-13-14 LETTING ITEM 280

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION
DIVISION OF HIGHWAYS
**PLANS FOR PROPOSED
BRIDGE RECONSTRUCTION**

F.A.S. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
546	12-00245-00-BR	MACON	29	1
CH 21 OVER SOUTH FORK CREEK			CONTRACT NO. 95739	

INDEX OF SHEETS

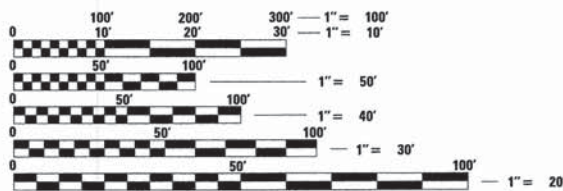
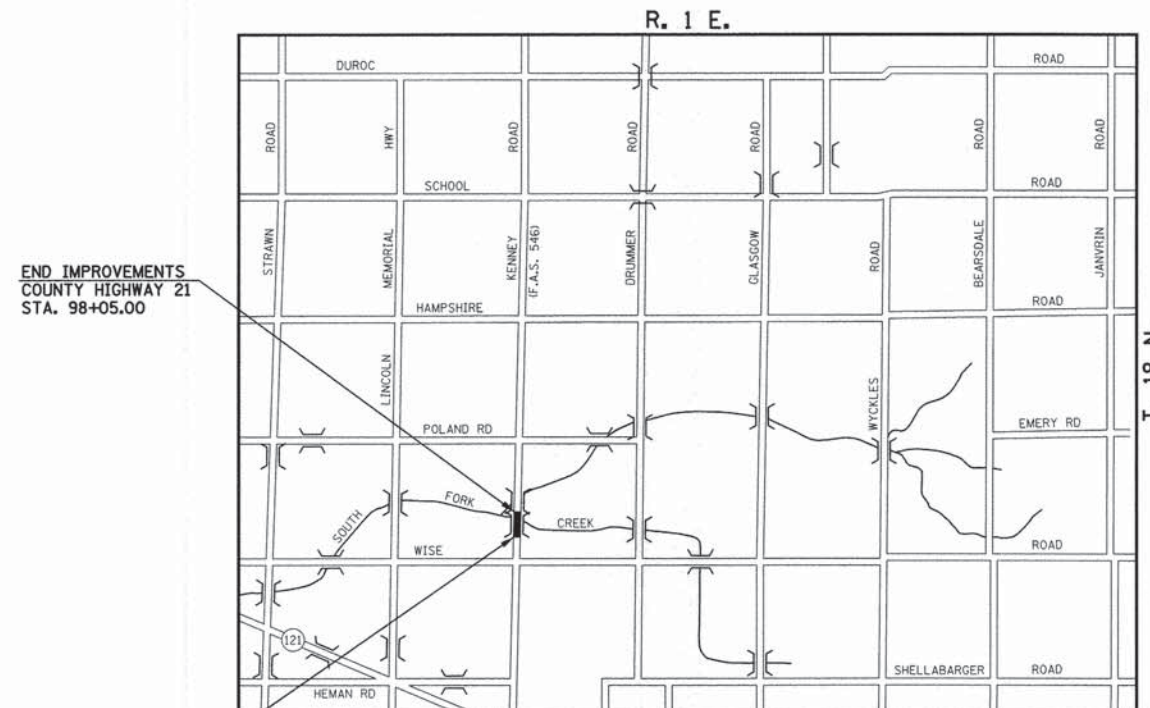
SHEET NO.	DESCRIPTION
1	TITLE SHEET
2	GENERAL NOTES
3	HIGHWAY STANDARDS AND LEGEND
4	SUMMARY OF QUANTITIES
5	SCHEDULE OF QUANTITIES
6	EXISTING AND PROPOSED TYPICAL SECTIONS
7	REMOVAL PLAN
8	PLAN AND PROFILE
9	TRAFFIC CONTROL PLAN
10	EROSION CONTROL PLAN
11	PAVEMENT MARKING PLAN
12-13	MISCELLANEOUS DETAILS
14-22	BRIDGE PLANS
23-29	CROSS SECTIONS

SCALES
 PLAN 1 INCH = 20 FEET
 PROFILE HORIZ. 1 INCH = 20 FEET
 PROFILE VERT. 1 INCH = 5 FEET
 CROSS SECTIONS HORIZ. 1 INCH = 5 FEET
 CROSS SECTIONS VERT. 1 INCH = 5 FEET

MACON COUNTY, ILLINOIS
SECTION NO. 12-00245-00-BR
PROJECT NO. BRS-0546(110)
JOB NO. C-97-046-13
STP BRIDGE PROGRAM

**COUNTY HIGHWAY 21 (KENNEY ROAD) – F.A.S. ROUTE 546
OVER SOUTH FORK CREEK**

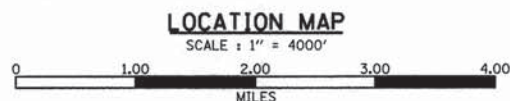
ILLINOIS HIGHWAY STANDARD DRAWINGS
(SEE SHEET NO. 3)



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

CONTRACT NO. 95739



TOTAL LENGTH OF IMPROVEMENTS = 378 FEET = 0.07 MILES

ADT = 500 (2014)
ADT = 600 (2034)
FUNCTIONAL CLASSIFICATION = MAJOR COLLECTOR
DESIGN SPEED = 55 MPH

PROFESSIONAL ENGINEER
CLARK DIETZ, INC.
FOR SHEETS 1-13 AND 23-29
DATE: 04-04-2014
LICENSE EXPIRES 11-30-2015



MACON COUNTY

APPROVED April 7 2014
[Signature]
COUNTY ENGINEER

PASSED 4/17/2014 20
Manson E. Hartley
DISTRICT SEVEN ENGINEER OF
LOCAL ROADS & STREETS

Releasing For Bid Based on Limited Review
4/17 20 14
Roger L. Oriskany
DEPUTY DIRECTOR OF HIGHWAYS,
REGION FOUR ENGINEER

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

**PRINTED BY THE AUTHORITY
OF THE STATE OF ILLINOIS**

Clark Dietz
ENGINEERS
125 WEST CHURCH STREET
CHAMPAIGN, IL 61620
PHONE : 217.373.8900
FAX : 217.373.8923

GENERAL NOTES

1. ALL ELEVATIONS SHOWN ARE REFERRED TO THE N.A.V.D. 88 DATUM.
2. WHEREVER IN THE PLANS OR SPECIFICATIONS THE TERM "STANDARD SPECIFICATIONS" IS USED IT SHALL BE UNDERSTOOD BY THE CONTRACTOR TO MEAN THE "STANDARD SPECIFICATIONS FOR ROAD AND BRIDGE CONSTRUCTION" AS PREPARED BY THE DEPARTMENT OF TRANSPORTATION OF THE STATE OF ILLINOIS AND ADOPTED ON JANUARY 1, 2012.
3. ANY REFERENCE TO STANDARDS THROUGHOUT THE PLANS SHALL BE INTERPRETED TO BE THE LATEST STANDARDS OF THE DEPARTMENT AS SHOWN ON THE HIGHWAY STANDARDS AND LEGEND SHEET NO. 3.
4. IT IS THE CONTRACTOR'S RESPONSIBILITY TO ASCERTAIN EXISTING FIELD CONDITIONS BEFORE BIDDING ON THE PROJECT.
5. THE CONTRACTOR SHALL BE REQUIRED TO COMPLY WITH STATE REGULATIONS REGARDING AIR, WATER, AND NOISE POLLUTION.
6. THE CONTRACTOR SHALL TAKE CARE NOT TO STORE OR DISPOSE OF DEBRIS OR UNSUITABLE MATERIALS WITHIN LIMITS OF THE IMPROVEMENT AND TAKE CARE TO LIMIT CONSTRUCTION TO WITHIN THE RIGHT-OF-WAY AND EASEMENT AREAS. UNNECESSARY ENCROACHMENTS ONTO PRIVATE OR PUBLIC AREAS WILL NOT BE ALLOWED.
7. WHERE SECTION OR SUBSECTION MONUMENTS, BENCHMARKS, OR IRON PIPE MONUMENTS, INCLUDING PROPERTY AND R.O.W. MONUMENTS, ARE ENCOUNTERED, THE ENGINEER SHALL BE NOTIFIED BEFORE SUCH MONUMENTS ARE REMOVED. THE CONTRACTOR SHALL PROTECT AND CAREFULLY PRESERVE ALL MONUMENTS UNTIL AN ILLINOIS REGISTERED LAND SURVEYOR OR AGENT HAS WITNESSED OR OTHERWISE REFERENCED THEIR LOCATION. THE CONTRACTOR SHALL BE RESPONSIBLE FOR HAVING AN ILLINOIS REGISTERED LAND SURVEYOR RE-ESTABLISH ANY MONUMENTS UNNECESSARILY DESTROYED BY HIS OR HER OPERATIONS.
8. ALL EXISTING SIGNS LOCATED ON PUBLIC RIGHT-OF-WAY WHICH INTERFERE WITH THE WORK SHALL BE REMOVED BY THE CONTRACTOR IN ACCORDANCE WITH ARTICLE 107.25 OF THE STANDARD SPECIFICATIONS.
9. THE EXCAVATION FOR THIS PROJECT IS CLASSIFIED AS EARTH EXCAVATION, CHANNEL EXCAVATION, OR STRUCTURE EXCAVATION IN ACCORDANCE WITH SECTIONS 202, 203, AND 502 OF THE STANDARD SPECIFICATIONS. THE EARTH, CHANNEL, AND STRUCTURE EXCAVATION SHALL INCLUDE THE REMOVAL OF EARTH AND UNCLASSIFIED MATERIALS AND THE TRANSPORTATION AND PLACEMENT OF SUITABLE MATERIALS IN EMBANKMENTS. THE REMAINING EXCAVATION IS CLASSIFIED AS REMOVAL AND DISPOSAL OF UNSUITABLE MATERIAL AND PAVEMENT REMOVAL.
10. IT MAY BE NECESSARY TO UNDERCUT AND REMOVE EARTH AND ORGANIC MATERIAL BELOW THE PROPOSED PAVEMENT SYSTEM OR AT LOCATIONS AS DIRECTED BY THE ENGINEER. ALL UNSTABLE, UNSUITABLE, OR ORGANIC MATERIAL SHALL BE DISPOSED OF AS DIRECTED BY THE ENGINEER. MATERIALS THAT ARE REMOVED AND ARE NOT CLASSIFIED AS EARTH EXCAVATION, CHANNEL EXCAVATION, OR STRUCTURE EXCAVATION SHALL BE MEASURED AND PAID FOR AS REMOVAL AND DISPOSAL OF UNSUITABLE MATERIAL IN ACCORDANCE WITH THE SPECIAL PROVISIONS.
11. THE FINISHED EARTHWORK SHALL HAVE VEGETATIVE SUSTAINING TOPSOIL COVERING THE TOP 4 INCHES IN AREAS TO BE SEEDED. THE TOPSOIL REQUIRED SHALL BE SALVAGED FROM VARIOUS EXCAVATION OPERATIONS AND STOCKPILED AT A LOCATION APPROVED BY THE ENGINEER. THE TOPSOIL EXCAVATION, STOCKPILING, AND PLACEMENT WILL NOT BE PAID FOR SEPARATELY BUT SHALL BE INCLUDED IN THE CONTRACT UNIT PRICE FOR EARTH EXCAVATION.
12. ONLY EXISTING PAVEMENT AND BASE COURSES COMPOSED OF PORTLAND CEMENT CONCRETE OR ASPHALT SHALL BE MEASURED AND PAID FOR AS PAVEMENT REMOVAL IN ACCORDANCE WITH SECTION 440 OF THE STANDARD SPECIFICATIONS AND THE SPECIAL PROVISIONS. NO ADDITIONAL COMPENSATION WILL BE ALLOWED FOR PAVEMENT REMOVAL ITEMS DUE TO VARIATIONS IN PAVEMENT TYPES, THICKNESSES OR AMOUNT OF REINFORCEMENT. THE ADJUSTMENT OF QUANTITIES AS SPECIFIED IN ARTICLE 440.07 OF THE STANDARD SPECIFICATIONS SHALL NOT APPLY. REMOVAL OF OTHER TYPES OF PAVEMENT COMPOSITION SUCH AS AGGREGATE OR A MIX OF AGGREGATE/OIL AND CHIP SHALL BE MEASURED AND PAID FOR AS EARTH EXCAVATION IN ACCORDANCE WITH SECTION 202 OF THE STANDARD SPECIFICATIONS.
13. ALL DISTURBED AREAS SHALL BE SEEDED AS SHOWN ON THE PLANS. SEEDING, FERTILIZING, AND MULCHING SHALL BE DONE AS SOON AS POSSIBLE AS DIRECTED BY THE ENGINEER. EXISTING TURF WHICH IS DAMAGED OUTSIDE THE LIMITS OF THE RIGHT-OF-WAY OR EASEMENTS SHALL BE REESTABLISHED WITH SEED AS DIRECTED BY THE ENGINEER AT THE CONTRACTOR'S EXPENSE.
14. UTILITY LOCATIONS WERE PLOTTED FROM INFORMATION FURNISHED BY THE VARIOUS UTILITY COMPANIES AND THEIR ACCURACY SHOULD BE CONSIDERED APPROXIMATE. NO RESPONSIBILITY IS ACCEPTED FOR THE LOCATIONS AS SHOWN OR THAT ALL UTILITY FACILITIES ARE SHOWN. UTILITY LOCATIONS SHOWN IN THE PLANS AND PROFILES ARE APPROXIMATE AND REPRESENT LOCATIONS PRIOR TO ANY UTILITY RELOCATIONS REQUIRED TO ACCOMMODATE THE PROPOSED CONSTRUCTION. THE CONTRACTOR IS ADVISED THAT SOME UTILITY COMPANIES MAY HAVE RELOCATED THEIR FACILITIES PRIOR TO THE START OF CONSTRUCTION UNDER THIS CONTRACT. BEFORE COMMENCING CONSTRUCTION OPERATIONS THE CONTRACTOR SHALL OBTAIN FROM THE ENGINEER ANY AVAILABLE INFORMATION REGARDING THE RELOCATED POSITIONS OF UTILITIES WITHIN THE PROJECT LIMITS. WHETHER VARIOUS UTILITIES HAVE BEEN RELOCATED OR REMAIN IN THEIR ORIGINAL LOCATION, IT SHALL BE THE RESPONSIBILITY OF THE CONTRACTOR TO DETERMINE THEIR EXACT LOCATION AT THE TIME OF CONSTRUCTION AND TO PROTECT SAME. THE CONTRACTOR SHALL ALSO BE RESPONSIBLE FOR AVOIDING CONFLICTS BETWEEN OVERHEAD UTILITY LINES AND THE EQUIPMENT USED FOR EXCAVATING. SEE THE "STATUS OF UTILITIES" SHEET WITHIN THE SPECIAL PROVISIONS FOR ADDITIONAL INFORMATION REGARDING KNOWN UTILITY RELOCATIONS OR ADJUSTMENTS REQUIRED FOR THE PROPOSED CONSTRUCTION. THE CONTRACTOR'S ATTENTION IS DIRECTED TO THE SPECIAL PROVISION ENTITLED "COOPERATION WITH UTILITIES" AND TO ARTICLE 107.31 OF THE STANDARD SPECIFICATIONS.
15. THE CONTRACTOR SHALL BE RESPONSIBLE FOR PROTECTING UTILITY PROPERTY FROM CONSTRUCTION OPERATIONS AS OUTLINED IN ARTICLE 107.31 OF THE STANDARD SPECIFICATIONS. THE JULIE NUMBER IS 800-892-0123. A MINIMUM OF 48 HOURS ADVANCE NOTICE IS REQUIRED.
16. UTILITY OWNERS:
 - *INDICATES J.U.L.I.E. MEMBER
 - *CORN BELT ENERGY CORPORATION *FRONTIER COMMUNICATIONS
 1 ENERGY WAY 117 WEST JEFFERSON STREET
 BLOOMINGTON, IL 61705 MOUNT PULASKI, IL 62548
 (309) 662-5330 (217) 792-5732
17. ABANDONED UNDERGROUND UTILITIES THAT CONFLICT WITH CONSTRUCTION SHALL BE REMOVED AND DISPOSED OUTSIDE THE LIMITS OF THE RIGHT OF WAY ACCORDING TO ARTICLE 202.03 OF THE STANDARD SPECIFICATIONS AND AS APPROVED BY THE ENGINEER. THIS WORK WILL NOT BE PAID FOR SEPARATELY BUT SHALL BE INCLUDED IN THE CONTRACT UNIT PRICE FOR EARTH EXCAVATION.
18. ALL TRENCHES AND EXCAVATIONS FOR PIPES, CULVERTS, OR PIPE REMOVALS BELOW OR WITHIN TWO FEET LATERALLY OF THE PROPOSED PAVEMENT, SHOULDER, OR ENTRANCES SHALL BE BACKFILLED WITH TRENCH BACKFILL (SPECIAL) MATERIAL AS SHOWN ON THE PLANS AND IN ACCORDANCE WITH THE SPECIAL PROVISIONS. THE TRENCH BACKFILL (SPECIAL) MATERIAL SHALL BE PLACED AND COMPACTED IN ACCORDANCE WITH ARTICLE 550.07 OF THE STANDARD SPECIFICATIONS. IN NO CASE SHALL THE BACKFILL MATERIAL BE PLACED WITHOUT COMPACTING.
19. EXISTING PAVEMENTS IN WHICH THE TOP SURFACE IS TO BE JOINED TO THE PROPOSED WORK SHALL BE SO JOINED THROUGH SAW CUT JUNCTURES.
20. THE CONTRACTOR SHALL PROVIDE AND INSTALL TWO WEIGHTED SAND BAGS ON EACH TYPE II BARRICADE USED (ONE WEIGHTED SAND BAG ACROSS EACH BOTTOM RAIL).
21. FOR STABILIZATION, ALL TYPE III BARRICADES SHALL REQUIRE A MINIMUM OF FOUR SAND BAGS PER BARRICADE.
22. THE CONTRACTOR SHALL PROVIDE INLET AND PIPE PROTECTION, TEMPORARY DITCH CHECKS, PERIMETER EROSION BARRIER, AND TEMPORARY EROSION CONTROL SEEDING AS DIRECTED BY THE ENGINEER AND IN ACCORDANCE WITH STANDARD 280001. THE LOCATIONS FOR THE INLET AND PIPE PROTECTION SHALL BE AT THE UPSTREAM ENDS OF CULVERTS. THE LOCATIONS FOR THE TEMPORARY DITCH CHECKS SHALL BE AS DIRECTED BY THE ENGINEER. PERIMETER EROSION BARRIER SHALL BE PLACED ADJACENT TO CONSTRUCTION AREAS TO PREVENT SILT AND SEDIMENT FROM LEAVING THE SITE AS DIRECTED BY THE ENGINEER. ESTIMATED QUANTITIES FOR THE EROSION CONTROL ITEMS HAVE BEEN INCLUDED IN THE PROJECT AND MAY BE ADJUSTED AS DIRECTED BY THE ENGINEER.
23. HORIZONTAL CENTERLINE CONTROL POINTS AND VERTICAL BENCHMARKS ARE SHOWN FOR THE CONTRACTOR TO PHYSICALLY LOCATE MONUMENTATION IN THE FIELD. IT IS THE CONTRACTOR'S RESPONSIBILITY TO MAINTAIN CENTERLINE CONTROL POINTS OR BENCHMARKS AND SET ADDITIONAL POINTS AND TIES AS NECESSARY TO ENSURE THAT CONTROL POINTS AND BENCHMARKS CAN BE ACCURATELY REPLICATED DURING CONSTRUCTION.
24. THE MACON COUNTY HIGHWAY DEPARTMENT SHALL BE RESPONSIBLE FOR NOTIFYING THE PUBLIC, THE UNITED STATES POSTAL SERVICE, AND THE EMERGENCY SERVICE AGENCIES OF ALL ROAD CLOSURES AND CHANGES IN THE TRAFFIC CONTROL PLANS. THE CONTRACTOR SHALL NOTIFY THE ENGINEER OF ALL ROAD CLOSURES AND CHANGES IN THE TRAFFIC CONTROL PLANS A MINIMUM OF 48 HOURS IN ADVANCE OF THE WORK.
25. THE CONTRACTOR SHALL BE RESPONSIBLE FOR CLEANUP OF THE SITE PRIOR TO FINAL ACCEPTANCE IN ACCORDANCE WITH ARTICLE 104.06 OF THE STANDARD SPECIFICATIONS. THIS WORK SHALL ALSO INCLUDE CLEANING ALL DRAINAGE FACILITIES OF FOREIGN MATERIALS IN ACCORDANCE WITH ARTICLE 602.15 OF THE STANDARD SPECIFICATIONS. THIS WORK SHALL BE PERFORMED AS DIRECTED BY THE ENGINEER AND NO ADDITIONAL COMPENSATION WILL BE ALLOWED.
26. THE CONTRACTOR'S COST OF ABIDING BY THE PROVISIONS OF PERMITS ISSUED BY VARIOUS AGENCIES SHALL BE INCLUDED IN THE VARIOUS PAY ITEMS OF THE CONTRACT. ALL ASSOCIATED BONDING REQUIREMENTS AND COSTS SHALL ALSO BE INCLUDED IN THE VARIOUS PAY ITEMS OF THE CONTRACT. THE FOLLOWING IS A LIST OF PERMITS THAT WILL BE REQUIRED FOR THIS PROJECT AND THE AGENCY RESPONSIBLE FOR ACQUIRING THE PERMIT. COPIES OF THE PERMITS ARE AVAILABLE FOR VIEWING AT THE OFFICE OF THE MACON COUNTY ENGINEER.
 - TYPE OF PERMIT**
 - USAOE NATIONWIDE PERMIT NO. 14 - LINEAR TRANSPORTATION PROJECTS
 - IDNR OWR STATEWIDE PERMIT NO. 12 - BRIDGE AND CULVERT REPLACEMENT STRUCTURES AND BRIDGE WIDENINGS
 - IEPA SECTION 401 WATER QUALITY CERTIFICATION
 - IEPA NATIONAL POLLUTANT DISCHARGE ELIMINATION SYSTEM PERMIT NO. ILR10

ACQUIRING AGENCY
 MACON COUNTY
 PERMIT NOT REQUIRED
 MACON COUNTY
 PERMIT NOT REQUIRED

27. THE MACON COUNTY HIGHWAY DEPARTMENT WILL BE RESPONSIBLE FOR THE CONSTRUCTION LAYOUT.

FILE NAME = p:\M0320060_Macon County - CH 21 Str No 058-3006 Rep\Plans\Sheets\02_CH21_BB_notes.dgn PLOT DATE = 4/5/2014	DESIGNED - JAJ	REVISED -	STATE OF ILLINOIS DEPARTMENT OF TRANSPORTATION		GENERAL NOTES				
	DRAWN - JAJ	REVISED -							
	CHECKED - SMW	REVISED -							
	DATE - 04/2014	REVISED -							
	SCALE = NONE	SHEET NO. 2 OF 29 SHEETS	STA.	TO STA.	F.A.S. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
					546	12-00245-00-BR	MACON	29	2
					CH 21 OVER SOUTH FORK CREEK		CONTRACT NO. 95739		
					FED. ROAD DIST. NO.		ILLINOIS FED. AID PROJECT		

ILLINOIS HIGHWAY STANDARD DRAWINGS

STANDARD NO.	DESCRIPTION
280001-07	TEMPORARY EROSION CONTROL SYSTEMS
420001-07	PAVEMENT JOINTS
515001-03	NAME PLATE FOR BRIDGES
542406-01	METAL END SECTION FOR PIPE ARCHES
601101-01	CONCRETE HEADWALL FOR PIPE DRAIN
630001-10	STEEL PLATE BEAM GUARDRAIL
630301-06	SHOULDER WIDENING FOR TYPE 1 (SPECIAL) GUARDRAIL TERMINALS
631032-08	TRAFFIC BARRIER TERMINAL, TYPE 6A
635006-03	REFLECTOR AND TERMINAL MARKER PLACEMENT
635011-02	REFLECTOR MARKER AND MOUNTING DETAILS
701301-04	LANE CLOSURE 2L, 2W, SHORT TIME OPERATIONS
701901-03	TRAFFIC CONTROL DEVICES
780001-04	TYPICAL PAVEMENT MARKINGS
BLR 21-9	TYPICAL APPLICATION OF TRAFFIC CONTROL DEVICES FOR CONSTRUCTION ON RURAL LOCAL HIGHWAYS
BLR 22-7	TYPICAL APPLICATION OF TRAFFIC CONTROL DEVICES FOR CONSTRUCTION ON RURAL LOCAL HIGHWAYS (TWO LANE, TWO WAY RURAL TRAFFIC) (ROAD CLOSED TO THRU TRAFFIC)
BLR 23-4	TRAFFIC BARRIER TERMINAL, TYPE 1

LEGEND

EXISTING	PROPOSED	EXISTING	PROPOSED

SUMMARY OF QUANTITIES

CODE NO.	PAY ITEM	CONSTRUCTION CODE		0004	0011
		UNIT	TOTAL QUANTITY	ROADWAY	BRIDGE
20200100	EARTH EXCAVATION	CU YD	196	196	
* 20201200	REMOVAL AND DISPOSAL OF UNSUITABLE MATERIAL	CU YD	20	20	
20300100	CHANNEL EXCAVATION	CU YD	804		804
* 21000300	GRANULAR EMBANKMENT, SPECIAL	TON	40	40	
* 21001000	GEOTECHNICAL FABRIC FOR GROUND STABILIZATION	SQ YD	60	60	
25000200	SEEDING, CLASS 2	ACRE	0.4	0.4	
25000400	NITROGEN FERTILIZER NUTRIENT	POUND	36	36	
25000500	PHOSPHORUS FERTILIZER NUTRIENT	POUND	36	36	
25000600	POTASSIUM FERTILIZER NUTRIENT	POUND	36	36	
25100115	MULCH, METHOD 2	ACRE	0.4	0.4	
28000250	TEMPORARY EROSION CONTROL SEEDING	POUND	40	40	
28000305	TEMPORARY DITCH CHECKS	FOOT	75	75	
28000400	PERIMETER EROSION BARRIER	FOOT	700	700	
28000500	INLET AND PIPE PROTECTION	EACH	2	2	
28100109	STONE RIPRAP, CLASS A5	SQ YD	550		550
28200200	FILTER FABRIC	SQ YD	550		550
31100100	SUBBASE GRANULAR MATERIAL, TYPE A	TON	152	152	
40200800	AGGREGATE SURFACE COURSE, TYPE B	TON	27	27	
40600100	BITUMINOUS MATERIALS (PRIME COAT)	GALLON	132	132	
40600627	LEVELING BINDER (MACHINE METHOD), IL-9.5FG, N50	TON	60	60	
40600982	HOT-MIX ASPHALT SURFACE REMOVAL - BUTT JOINT	SQ YD	297	297	
40603310	HOT-MIX ASPHALT SURFACE COURSE, MIX "C", N50	TON	73	73	
44000100	PAVEMENT REMOVAL	SQ YD	250	250	
44000200	DRIVEWAY PAVEMENT REMOVAL	SQ YD	70	70	
48100500	AGGREGATE SHOULDERS, TYPE A 6"	SQ YD	335	335	
50100100	REMOVAL OF EXISTING STRUCTURES	EACH	1		1
50105220	PIPE CULVERT REMOVAL	FOOT	69	69	
50200100	STRUCTURE EXCAVATION	CU YD	148		148
50200300	COFFERDAM EXCAVATION	CU YD	90		90
* 50201101	COFFERDAM (TYPE 1) (LOCATION-1)	EACH	1		1
* 50201102	COFFERDAM (TYPE 1) (LOCATION-2)	EACH	1		1
50300225	CONCRETE STRUCTURES	CU YD	105.4		105.4
* 50300255	CONCRETE SUPERSTRUCTURE	CU YD	99.2		99.2
50300260	BRIDGE DECK GROOVING	SQ YD	358		358

* SEE SPECIAL PROVISIONS

CODE NO.	PAY ITEM	CONSTRUCTION CODE		0004	0011
		UNIT	TOTAL QUANTITY	ROADWAY	BRIDGE
50800205	REINFORCEMENT BARS, EPOXY COATED	POUND	37390		37390
Δ 50901050	STEEL RAILING, TYPE SM	FOOT	142		142
51200957	FURNISHING METAL SHELL PILES 12" X 0.250"	FOOT	597		597
51202305	DRIVING PILES	FOOT	597		597
51203200	TEST PILE METAL SHELLS	EACH	2		2
51500100	NAME PLATES	EACH	1		1
* 542C5470	PIPE CULVERTS, CLASS C, TYPE 1 EQUIVALENT ROUND-SIZE 15"	FOOT	53	53	
* 542C5476	PIPE CULVERTS, CLASS C, TYPE 1 EQUIVALENT ROUND-SIZE 21"	FOOT	40	40	
54215130	STEEL END SECTIONS, EQUIVALENT ROUND-SIZE 15"	EACH	2	2	
54215136	STEEL END SECTIONS, EQUIVALENT ROUND-SIZE 21"	EACH	2	2	
59100100	GEOCOMPOSITE WALL DRAIN	SQ YD	44		44
Δ 63000001	STEEL PLATE BEAM GUARDRAIL, TYPE A, 6 FOOT POSTS	FOOT	12.5	12.5	
Δ 63100087	TRAFFIC BARRIER TERMINAL, TYPE 6A	EACH	4	4	
Δ 63100167	TRAFFIC BARRIER TERMINAL, TYPE 1 (SPECIAL) TANGENT	EACH	3	3	
Δ 63200310	GUARDRAIL REMOVAL	FOOT	173	173	
67100100	MOBILIZATION	L SUM	1	1	
Δ 78001110	PAINT PAVEMENT MARKING - LINE 4"	FOOT	856	856	
Δ 78200410	GUARDRAIL MARKERS, TYPE A	EACH	8	8	
Δ 78201000	TERMINAL MARKER - DIRECT APPLIED	EACH	4	4	
Δ LR631020	TRAFFIC BARRIER TERMINAL, TYPE 1	EACH	1	1	
* X2080250	TRENCH BACKFILL, SPECIAL	CU YD	19	19	
* X4201400	BRIDGE APPROACH PAVEMENT (SPECIAL)	SQ YD	166		166
* X4230710	PORTLAND CEMENT CONCRETE DRIVEWAY PAVEMENT, 6 INCH, SPECIAL	SQ YD	55	55	
* X5860110	GRANULAR BACKFILL FOR STRUCTURES	CU YD	72		72
* X7010216	TRAFFIC CONTROL AND PROTECTION, (SPECIAL)	L SUM	1	1	
* Z0046304	PIPE UNDERDRAINS FOR STRUCTURES 4"	FOOT	124		124

* SEE SPECIAL PROVISIONS

Δ SPECIALTY ITEMS

FILE NAME = p:\M0320060_Macon County - CH 21 Str No 058-3006 Rep\Plans\Sheets\04_CH21_BB_summary.dgn
 PLOT DATE = 4/5/2014

DESIGNED - JAJ	REVISED -
DRAWN - JAJ	REVISED -
CHECKED - SMW	REVISED -
DATE - 04/2014	REVISED -

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

SUMMARY OF QUANTITIES

SCALE : NONE SHEET NO. 4 OF 29 SHEETS STA. TO STA.

F.A.S. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
546	12-00245-00-BR	MACON	29	4
CH 21 OVER SOUTH FORK CREEK		CONTRACT NO. 95739		
FED. ROAD DIST. NO.		ILLINOIS FED. AID PROJECT		

SCHEDULE OF QUANTITIES

EARTHWORK SUMMARY						
LOCATION	20200100 EARTH EXCAVATION (CU YD)	20300100 CHANNEL EXCAVATION (CU YD)	50200100 STRUCTURE EXCAVATION (CU YD)	50200300 COFFERDAM EXCAVATION (CU YD)	EMBANKMENT (CU YD)	*ESTIMATED EARTH WASTE (CU YD)
94+27.0 TO 98+05.0	196	804	148	90	208	978
TOTAL	196	804	148	90	208	978

*EARTH WASTE = EARTH EXCAVATION + CHANNEL EXCAVATION + STRUCTURE EXCAVATION + COFFERDAM EXCAVATION - (EMBANKMENT x 1.25 SHRINKAGE FACTOR)

NOTES

1. THE INDICATED EARTHWORK VOLUMES ARE ESTIMATES BASED ON THE "AVERAGE END AREA" METHOD OF CALCULATION. EARTHWORK VOLUMES WILL VARY WITH ACTUAL SOIL CONDITIONS ENCOUNTERED DURING CONSTRUCTION. THESE ESTIMATES ARE PROVIDED FOR THE CONVENIENCE OF THE CONTRACTOR ONLY AND SHOULD BE CONSIDERED APPROXIMATE. ACTUAL VOLUMES OF EARTH EXCAVATION, CHANNEL EXCAVATION, STRUCTURE EXCAVATION, AND COFFERDAM EXCAVATION WILL BE PAID FOR IN ACCORDANCE WITH THE STANDARD SPECIFICATIONS. EMBANKMENT WILL NOT BE PAID FOR SEPARATELY BUT SHALL BE INCLUDED IN THE COST OF EARTH EXCAVATION, AND NO ADDITIONAL COMPENSATION WILL BE ALLOWED.
2. THE EMBANKMENT QUANTITY DOES NOT ACCOUNT FOR SHRINKAGE. A 25% SHRINKAGE FACTOR HAS BEEN APPLIED TO THE EMBANKMENT QUANTITY TO DETERMINE THE ESTIMATED VOLUME OF EARTH WASTE. THE EMBANKMENT QUANTITY INCLUDES THE 4" THICK TOPSOIL LAYER. TOPSOIL WILL NOT BE PAID FOR SEPARATELY BUT SHALL BE INCLUDED IN THE COST OF EARTH EXCAVATION, AND NO ADDITIONAL COMPENSATION WILL BE ALLOWED. SUITABLE EXCAVATED MATERIAL SHALL BE USED AS TOPSOIL AS DIRECTED BY THE ENGINEER.
3. EXCESS EARTH MATERIAL SHALL BE DISPOSED OF OFF-SITE BY THE CONTRACTOR. THE COST OF DISPOSING OF EXCESS EARTH MATERIAL WILL NOT BE PAID FOR SEPARATELY BUT SHALL BE INCLUDED IN THE COST OF EARTH EXCAVATION, AND NO ADDITIONAL COMPENSATION WILL BE ALLOWED.
4. AN ESTIMATED QUANTITY FOR THE REMOVAL AND DISPOSAL OF UNSUITABLE MATERIALS HAS BEEN INCLUDED IN THE CONTRACT. THE REMOVAL AND DISPOSAL OF UNSUITABLE MATERIALS SHALL BE AS DIRECTED BY THE ENGINEER AND WILL BE MEASURED AND PAID FOR AS DESCRIBED IN THE SPECIAL PROVISIONS. SEE TYPICAL SECTION NOTE 4 ON SHEET 6 FOR ADDITIONAL INFORMATION.

**20201200
REMOVAL AND DISPOSAL OF
UNSUITABLE MATERIAL**

LOCATION	CU YD
AS DIRECTED BY THE ENGINEER	20
TOTAL	20

**21000300
GRANULAR EMBANKMENT, SPECIAL**

LOCATION	TON
AS DIRECTED BY THE ENGINEER	40
TOTAL	40

**21001000
GEOTECHNICAL FABRIC FOR
GROUND STABILIZATION**

LOCATION	SQ YD
AS DIRECTED BY THE ENGINEER	60
TOTAL	60

**25000200
SEEDING, CLASS 2**

LOCATION	ACRE
94+27.0 TO 98+05.0 LT & RT	0.4
TOTAL	0.4

**25000400, 25000500, 25000600
FERTILIZER NUTRIENTS
(NITROGEN, PHOSPHORUS, POTASSIUM)**

LOCATION	POUND
94+27.0 TO 98+05.0 LT & RT	36
TOTAL	36

**25100115
MULCH, METHOD 2**

LOCATION	ACRE
94+27.0 TO 98+05.0 LT & RT	0.4
TOTAL	0.4

**31100100
SUBBASE GRANULAR MATERIAL, TYPE A**

LOCATION	TON
95+70.0 TO 95+95.5 LT & RT	76
96+68.5 TO 96+94.0 LT & RT	76
TOTAL	152

**40200800
AGGREGATE SURFACE COURSE, TYPE B**

LOCATION	TON
97+63.0 RT	27
TOTAL	27

**40600100
BITUMINOUS MATERIALS (PRIME COAT)**

LOCATION	GALLON
94+27.0 TO 95+70.0 LT & RT (LEVELING BINDER)	37
96+94.0 TO 98+05.0 LT & RT (LEVELING BINDER)	29
94+27.0 TO 95+70.0 LT & RT (SURFACE)	37
96+94.0 TO 98+05.0 LT & RT (SURFACE)	29
TOTAL	132

**40600627
LEVELING BINDER
(MACHINE METHOD), IL-9.5FG, N50**

LOCATION	TON
94+27.0 TO 95+70.0 LT & RT	31
96+94.0 TO 98+05.0 LT & RT	29
TOTAL	60

NOTE:
PREPARATION OF THE HMA BASE IN ACCORDANCE WITH ARTICLE 406.05(a) OF THE STANDARD SPECIFICATIONS SHALL BE INCLUDED IN THE COST OF THE LEVELING BINDER, AND NO ADDITIONAL COMPENSATION WILL BE ALLOWED.

**40603310
HOT-MIX ASPHALT SURFACE
COURSE, MIX "C", N50**

LOCATION	TON
94+27.0 TO 95+70.0 LT & RT	41
96+94.0 TO 98+05.0 LT & RT	32
TOTAL	73

**48100500
AGGREGATE SHOULDERS, TYPE A 6"**

LOCATION	SQ YD
94+27.0 TO 96+05.0 LT	83
94+27.0 TO 95+88.2 RT	91
96+75.8 TO 98+05.0 LT	82
96+59.0 TO 98+05.0 RT	79
TOTAL	335

**X4230710
PORTLAND CEMENT CONCRETE DRIVEWAY
PAVEMENT, 6 INCH (SPECIAL)**

LOCATION	SQ YD
94+74.0 LT	55
TOTAL	55

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PLOT DATE = 4/5/2014

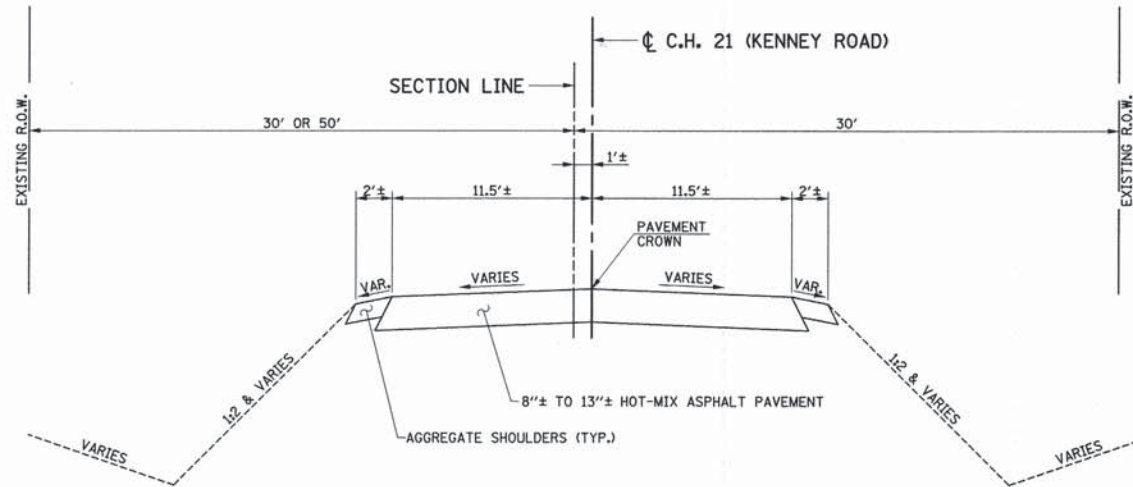
DESIGNED - JAJ	REVISED -
DRAWN - JAJ	REVISED -
CHECKED - SMW	REVISED -
DATE - 04/2014	REVISED -

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

SCHEDULE OF QUANTITIES

SCALE ± NONE SHEET NO. 5 OF 29 SHEETS STA. TO STA.

F.A.S. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
546	12-00245-00-BR	MACON	29	5
CH 21 OVER SOUTH FORK CREEK			CONTRACT NO. 95739	
FED. ROAD DIST. NO.			ILLINOIS FED. AID PROJECT	



**EXISTING TYPICAL SECTION
COUNTY HIGHWAY 21 (KENNEY ROAD)**

STA. 94+27.00 TO STA. 96+13.50
STA. 96+50.50 TO STA. 98+05.00
(EXISTING BRIDGE - STA. 96+13.50 TO STA. 96+50.50)

CORE NO.	LOCATION	PAVEMENT
P-1	94+67.3, 5.9' LT	8.25" HMA
P-2	95+67.4, 5.0' RT	10" HMA
B-1	96+13.8, 6.1' LT	12.5" HMA
B-2	96+49.5, 5.7' RT	13" HMA
P-3	96+97.8, 6.2' LT	11.5" HMA
P-4	97+96.1, 5.2' RT	13" HMA

HOT-MIX ASPHALT MIXTURE REQUIREMENTS TABLE

MIXTURE USE	SURFACE COURSE	LEVELING BINDER
AC/PG	PG 64-22	PG 64-22
RAP % (MAX)	10	10
DESIGN AIR VOIDS	4.0% @ NDES = 50	4.0% @ NDES = 50
MIXTURE COMPOSITION (GRADATION)	IL-9.5	IL-9.5FG
FRICION AGGREGATE	MIXTURE C	N/A

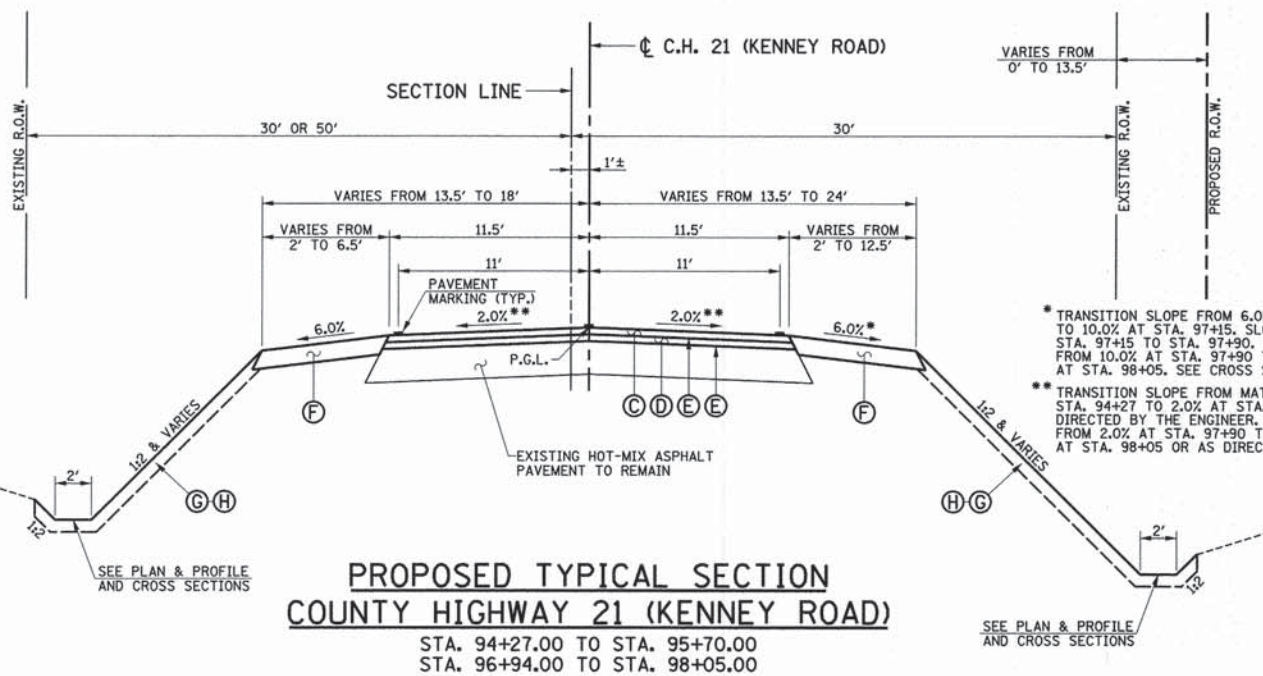
NOTE: IF AN ANTI-STRIPPING ADDITIVE IS REQUIRED FOR ANY HOT-MIX ASPHALT MIXTURE, THE COST OF THE ADDITIVE WILL NOT BE PAID FOR SEPARATELY AS DESCRIBED IN ARTICLE 406.14 OF THE STANDARD SPECIFICATIONS. IF THE CONTRACTOR ANTICIPATES THAT AN ADDITIVE WILL BE NEEDED, THE COST SHOULD BE INCLUDED IN THE UNIT BID PRICE.

TYPICAL SECTION NOTES

- THE EXISTING PAVEMENT TYPE AND THICKNESS SHOWN REPRESENTS THE BEST INFORMATION AVAILABLE. NO ADDITIONAL COMPENSATION WILL BE ALLOWED FOR PAVEMENT REMOVAL ITEMS DUE TO VARIATIONS IN THE EXISTING PAVEMENT TYPE, THICKNESS, OR AMOUNT OF REINFORCEMENT. THE ADJUSTMENT OF QUANTITIES AS SPECIFIED IN ARTICLE 440.07 OF THE STANDARD SPECIFICATIONS SHALL NOT APPLY.
- SEE THE BRIDGE PLANS FOR PAVEMENT JOINT, JOINT SEALING, AND SURFACE GROOVING INFORMATION FOR THE BRIDGE APPROACH PAVEMENT (SPECIAL).
- THE SUBGRADE FOR THE BRIDGE APPROACH PAVEMENT (SPECIAL) SHALL BE PREPARED AND COMPACTED IN ACCORDANCE WITH SECTION 301 OF THE STANDARD SPECIFICATIONS AND THE IDOT SUBGRADE STABILITY MANUAL. THIS WORK WILL NOT BE PAID FOR SEPARATELY BUT SHALL BE INCLUDED IN THE COST OF THE SUBBASE GRANULAR MATERIAL, TYPE A. IF THE REQUIRED DENSITY AND STABILITY CAN NOT BE ATTAINED, IT WILL BE NECESSARY TO UNDERCUT AND REMOVE EARTH AND ORGANIC MATERIAL BELOW THE PROPOSED PAVEMENT SYSTEM TO A DEPTH DETERMINED BY THE ENGINEER. ALL UNSTABLE, UNSUITABLE, OR ORGANIC MATERIAL SHALL BE DISPOSED OF OFF THE SITE IN ACCORDANCE WITH ARTICLE 202.03 OF THE STANDARD SPECIFICATIONS OR AS DIRECTED BY THE ENGINEER. MATERIALS THAT ARE UNDERCUT AND REMOVED BELOW THE PROPOSED PAVEMENT SYSTEM WHERE THE REQUIRED DENSITY AND STABILITY CANNOT BE ATTAINED SHALL BE MEASURED AND PAID FOR AS REMOVAL AND DISPOSAL OF UNSUITABLE MATERIAL. GRANULAR EMBANKMENT, SPECIAL SHALL BE PLACED ON GEOTECHNICAL FABRIC FOR GROUND STABILIZATION TO FILL THE AREAS OF UNDERCUT BELOW THE PROPOSED PAVEMENT SYSTEM. THE GRANULAR EMBANKMENT, SPECIAL SHALL MEET THE GRADATION REQUIREMENTS LISTED IN THE SPECIAL PROVISIONS.
- THE FINISHED EARTHWORK SHALL HAVE VEGETATIVE SUSTAINING SOIL COVERING THE TOP 4" OF AREAS TO BE SEED. THE TOPSOIL SHALL MEET THE REQUIREMENTS OF ARTICLE 1081.05 OF THE STANDARD SPECIFICATIONS OR BE APPROVED BY THE ENGINEER. THE VEGETATIVE SUSTAINING SOIL REQUIRED WILL NOT BE PAID FOR SEPARATELY BUT SHALL BE INCLUDED IN THE COST OF THE EARTH EXCAVATION. SUITABLE EXCAVATED MATERIAL SHALL BE USED AS TOPSOIL AS DIRECTED BY THE ENGINEER.
- ALL EXPOSED EARTH AREAS SHALL BE SEED, FERTILIZED, AND MULCHED IN ACCORDANCE WITH SECTIONS 250 AND 251 OF THE STANDARD SPECIFICATIONS AND THE SPECIAL PROVISIONS. SEEDING, CLASS 2 AND MULCH, METHOD 2 SHALL BE USED.

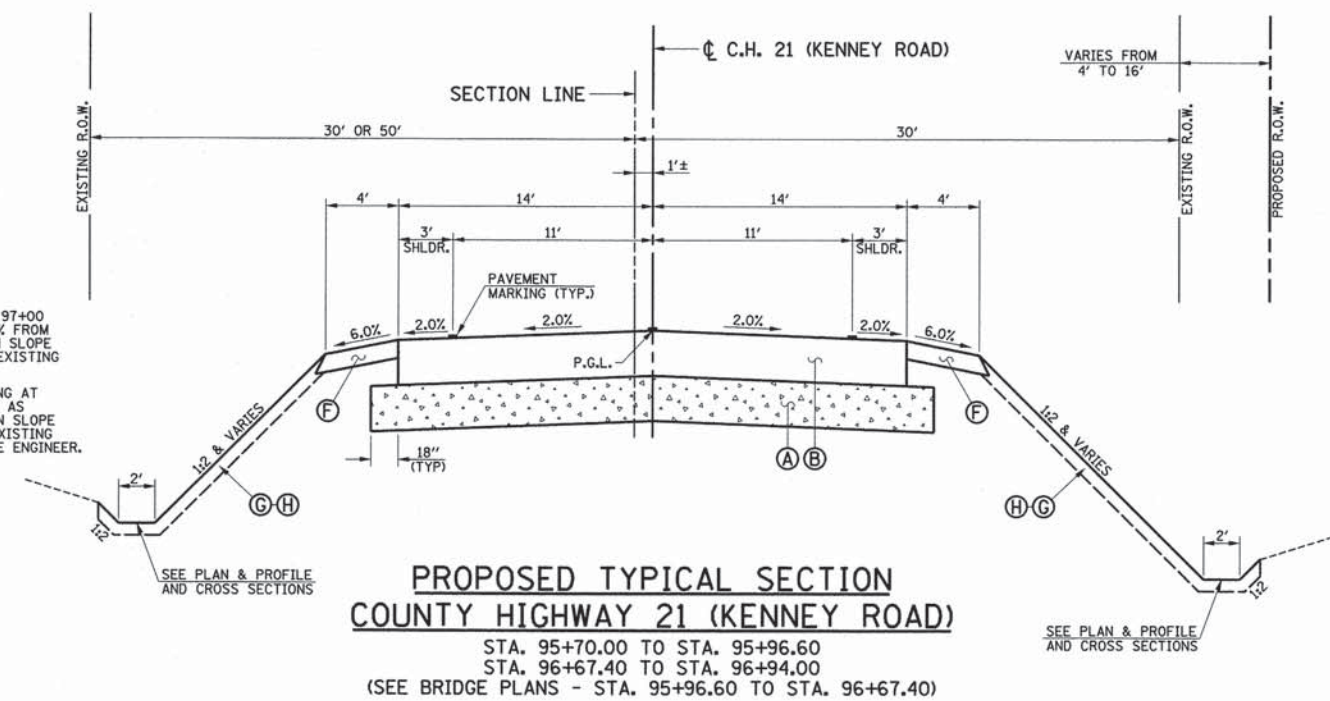
PROPOSED TYPICAL SECTION KEY

- (A) SUBBASE GRANULAR MATERIAL, TYPE A (15" THICK)
- (B) BRIDGE APPROACH PAVEMENT (SPECIAL) (15" THICK)
(SEE BRIDGE PLANS FOR LOCATIONS OF REINFORCEMENT BARS AND PAVEMENT JOINTS)
- (C) HOT-MIX ASPHALT SURFACE COURSE, MIX "C", N50 (2")
- (D) LEVELING BINDER (MACHINE METHOD), IL-9.5FG, N50 (VARIES 3/4" TO 3")
- (E) BITUMINOUS MATERIALS (PRIME COAT) - 0.05 TO 0.10 GAL/SQ YD
- (F) AGGREGATE SHOULDERS, TYPE A (6" THICK)
- (G) TOPSOIL (4" THICK) (SEE TYPICAL SECTION NOTE 4)
- (H) SEEDING, CLASS 2, FERTILIZER, AND MULCH, METHOD 2



**PROPOSED TYPICAL SECTION
COUNTY HIGHWAY 21 (KENNEY ROAD)**

STA. 94+27.00 TO STA. 95+70.00
STA. 96+94.00 TO STA. 98+05.00



**PROPOSED TYPICAL SECTION
COUNTY HIGHWAY 21 (KENNEY ROAD)**

STA. 95+70.00 TO STA. 95+96.60
STA. 96+67.40 TO STA. 96+94.00
(SEE BRIDGE PLANS - STA. 95+96.60 TO STA. 96+67.40)

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PLOT DATE = 4/5/2014

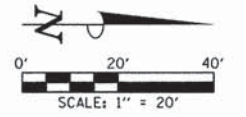
DESIGNED - JAJ	REVISED -
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CHECKED - SMW	REVISED -
DATE - 04/2014	REVISED -

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

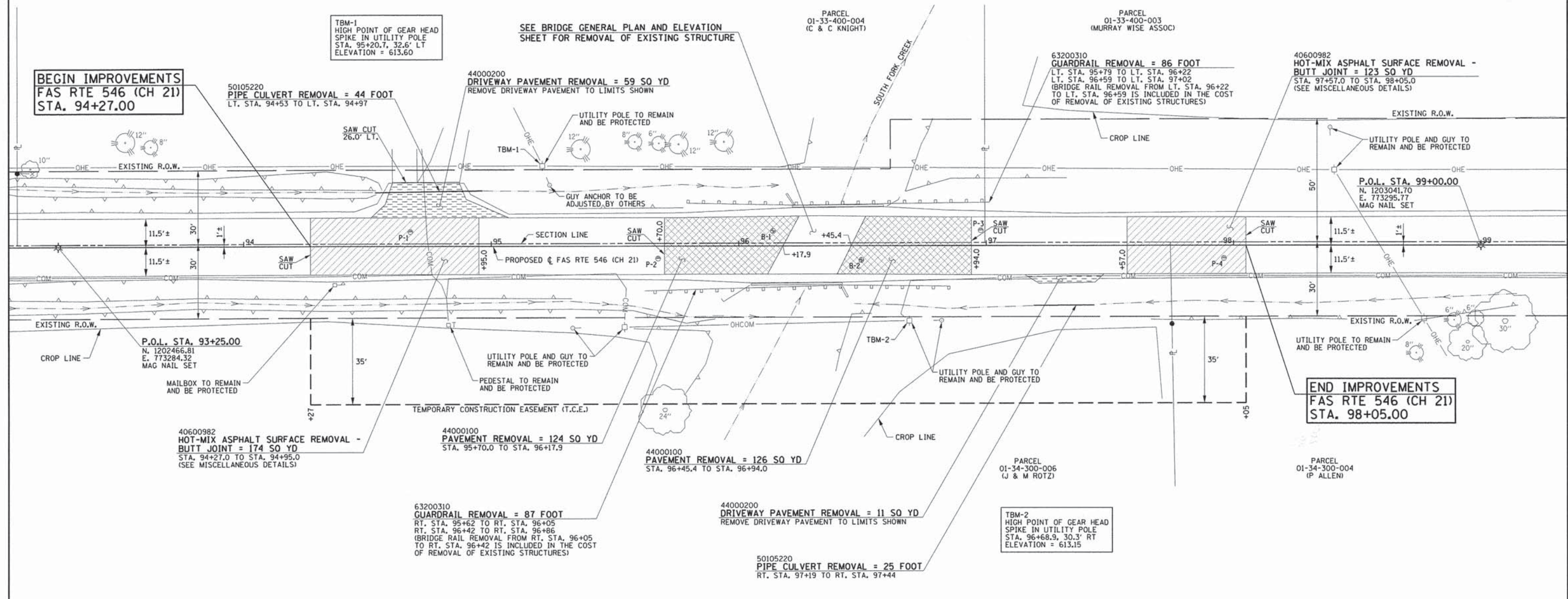
TYPICAL SECTIONS

SCALE : NONE SHEET NO. 6 OF 29 SHEETS STA. TO STA.

F.A.S. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
546	12-00245-00-BR	MACON	29	6
CH 21 OVER SOUTH FORK CREEK		CONTRACT NO. 95739		
FED. ROAD DIST. NO.		ILLINOIS FED. AID PROJECT		



- LEGEND**
- HOT-MIX ASPHALT SURFACE REMOVAL - BUTT JOINT
 - PAVEMENT REMOVAL
 - DRIVEWAY PAVEMENT REMOVAL



REMOVAL SCHEDULE			
CODE NO.	DESCRIPTION	UNIT	QTY.
40600982	HOT-MIX ASPHALT SURFACE REMOVAL - BUTT JOINT	SO YD	297
44000100	PAVEMENT REMOVAL	SO YD	250
44000200	DRIVEWAY PAVEMENT REMOVAL	SO YD	70
50105220	PIPE CULVERT REMOVAL	FOOT	69
63200310	GUARDRAIL REMOVAL	FOOT	173

FOR PROPOSED CONSTRUCTION IN THIS AREA SEE PLAN AND PROFILE SHEET.

ALL TREES SHALL BE SAVED UNLESS OTHERWISE DIRECTED BY THE ENGINEER.

EXISTING PAVEMENTS IN WHICH THE TOP SURFACE IS TO BE JOINED TO THE PROPOSED WORK SHALL BE SO JOINED THROUGH SAW CUT JUNCTURES.

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

REMOVAL PLAN

SCALE: 1"=20' SHEET NO. 7 OF 29 SHEETS STA. 94+27.00 TO STA. 98+05.00

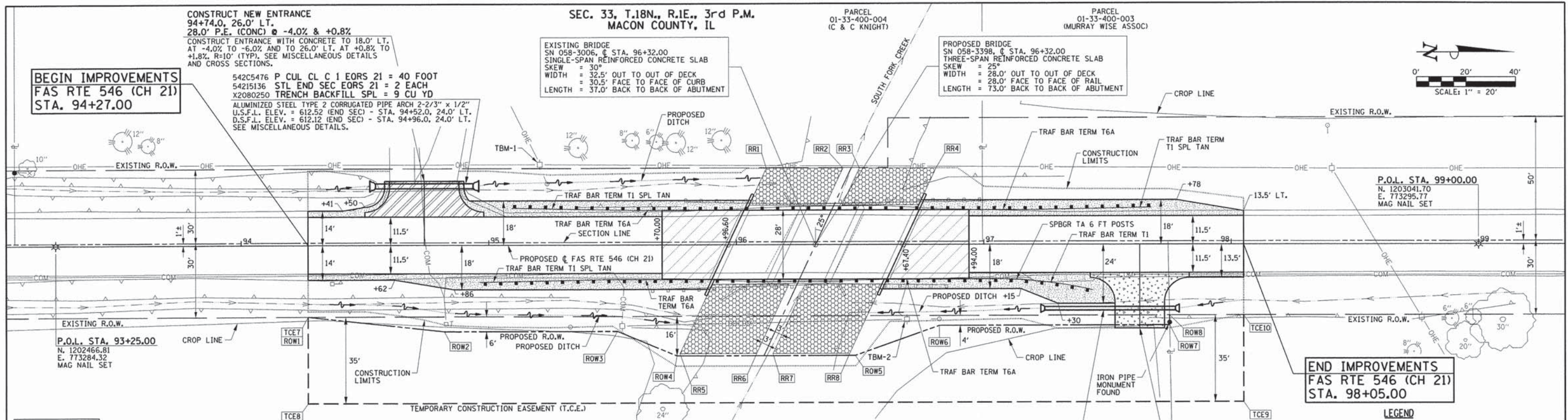
F.A.S. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
546	12-00245-00-BR	MACON	29	7

CH 21 OVER SOUTH FORK CREEK CONTRACT NO. 95739
FED. ROAD DIST. NO. ILLINOIS FED. AID PROJECT

FILE NAME = P:\M0320060_Macon County - CH 21 Str No 058-3006 Rep\Plans\Sheets\07_CH21_BB_removalREV1.dgn	DESIGNED - JAJ	REVISED - 04/2014
PLOT DATE = 4/30/2014	DRAWN - JAJ	REVISED -
	CHECKED - SMW	REVISED -
	DATE - 04/2014	REVISED -

DATE	
BY	
PLANNED	
CHECKED	
NO. OF WAY CHECKED	
NO.	
CADD FILE NAME	

DATE	
BY	
PROFILE	
CHECKED	
NO. OF WAY CHECKED	
NO.	
STRUCTURE NOTATION	
CPK	



GUARDRAIL DATA

63000001	STEEL PLATE BEAM GUARDRAIL, TYPE A, 6 FOOT POSTS = 12.5 FOOT
STA. 97+04.77 RT. TO STA. 97+17.26 RT.	
63100087	TRAFFIC BARRIER TERMINAL, TYPE 6A = 4 EACH
STA. 95+46.18 RT. TO STA. 95+91.83 RT.	
STA. 95+59.23 LT. TO STA. 96+04.88 LT.	
STA. 96+59.12 RT. TO STA. 97+04.77 RT.	
STA. 96+72.17 LT. TO STA. 97+17.82 LT.	
63100167	TRAFFIC BARRIER TERMINAL, TYPE 1 (SPECIAL) TANGENT = 3 EACH
STA. 94+96.18 RT. TO STA. 95+46.18 RT.	
STA. 95+09.23 LT. TO STA. 95+59.23 LT.	
STA. 97+17.82 LT. TO STA. 97+67.82 LT.	
78200410	GUARDRAIL MARKERS, TYPE A = 8 EACH
STA. 95+44 RT. STA. 95+61 LT.	
STA. 95+94 RT. STA. 96+13 LT.	
STA. 96+44 RT. STA. 96+65 LT.	
STA. 96+94 RT. STA. 97+17 LT.	
78201000	TERMINAL MARKER - DIRECT APPLIED = 4 EACH
STA. 94+96.18 RT.	
STA. 95+09.23 LT.	
STA. 97+41.99 RT.	
STA. 97+67.82 LT.	
LR631020	TRAFFIC BARRIER TERMINAL, TYPE 1 = 1 EACH
STA. 97+17.26 RT. TO STA. 97+41.99 RT.	

RIPRAP DATA

NOTE: SHAPE RIPRAP AT PROP. DITCHES AS DIRECTED BY THE ENGINEER.

RR1 = STA. 96+12.16, 31.00' LT.
RR2 = STA. 96+43.15, 31.00' LT.
RR3 = STA. 96+49.77, 31.00' LT.
RR4 = STA. 96+80.75, 31.00' LT.
RR5 = STA. 95+77.19, 44.00' RT.
RR6 = STA. 96+08.17, 44.00' RT.
RR7 = STA. 96+14.79, 44.00' RT.
RR8 = STA. 96+45.78, 44.00' RT.

SEE BRIDGE PLANS FOR QUANTITIES & DETAILS.

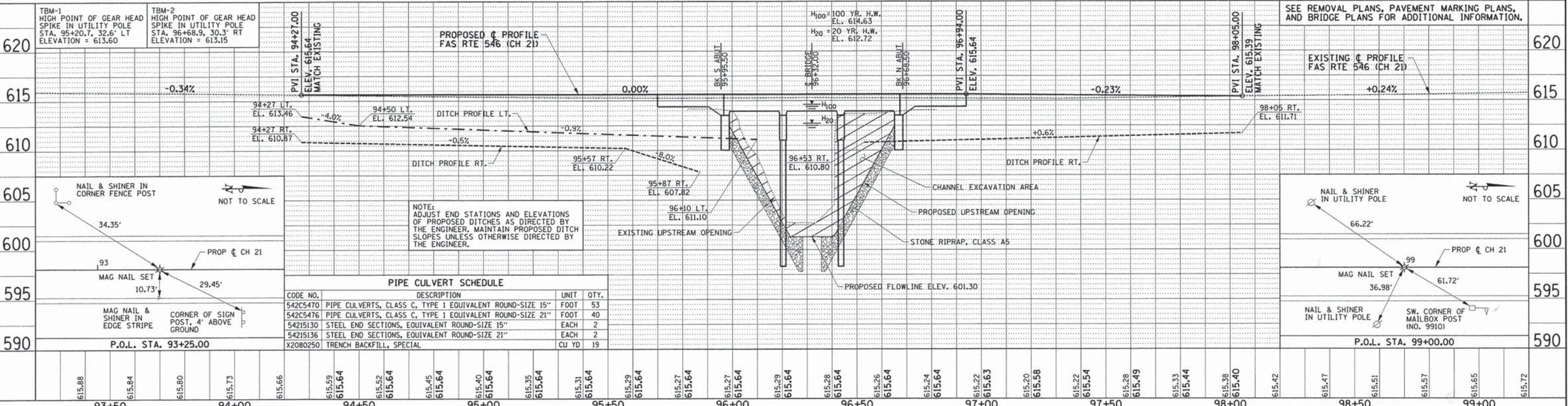
T.C.E. DATA

TCE1 = NOT USED
TCE2 = NOT USED
TCE3 = NOT USED
TCE4 = NOT USED
TCE5 = NOT USED
TCE6 = NOT USED
TCE7 = STA. 94+27.00, 29.00' RT.
TCE8 = STA. 94+27.00, 64.00' RT.
TCE9 = STA. 98+05.00, 63.68' RT.
TCE10 = STA. 98+05.00, 28.68' RT.

R.O.W. DATA

NOTE: AN IRON MONUMENT WAS SET AT EACH PROP. R.O.W. POINT

ROW1 = STA. 94+27.00, 29.00' RT.
ROW2 = STA. 94+82.00, 34.95' RT.
ROW3 = STA. 95+52.00, 34.90' RT.
ROW4 = STA. 95+76.00, 44.87' RT.
ROW5 = STA. 96+48.00, 44.81' RT.
ROW6 = STA. 96+82.00, 32.79' RT.
ROW7 = STA. 97+75.11, 32.71' RT.
ROW8 = STA. 97+75.04, 28.71' RT.



FILE NAME =	P:\M0320060_Macon County - CH 21 Str No 058-3006 ReplPlans\sheets\08_CH21_BB_planREV1.dgn
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REVISED -	04/2014

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

PLAN AND PROFILE

SCALE: 1"=20' SHEET NO. 8 OF 29 SHEETS STA. 94+27.00 TO STA. 98+05.00

F.A.S. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
546	12-00245-00-BR	MACON	29	8
CH 21 OVER SOUTH FORK CREEK		CONTRACT NO. 95739		
FED. ROAD DIST. NO.		ILLINOIS FED. AID PROJECT		



- LEGEND**
-  CONSTRUCTION WORK ZONE
 -  TYPE III BARRICADE

TRAFFIC CONTROL NOTES

1. TRAFFIC CONTROL AND PROTECTION SHALL BE IN ACCORDANCE WITH THE APPLICABLE PORTIONS OF THE STANDARD SPECIFICATIONS; THE APPLICABLE GUIDELINES CONTAINED IN THE MANUAL ON UNIFORM TRAFFIC CONTROL DEVICES FOR STREETS AND HIGHWAYS; STANDARDS 701301, 701901, BLR 21, AND BLR 22; THE TRAFFIC CONTROL PLANS; AND THE SPECIAL PROVISIONS. DELETE ALL REFERENCES TO MEASUREMENT AND PAYMENT.
2. TRAFFIC CONTROL AND PROTECTION WILL BE PAID FOR AT THE CONTRACT LUMP SUM PRICE FOR TRAFFIC CONTROL AND PROTECTION (SPECIAL). THE TRAFFIC CONTROL AND PROTECTION INSTALLATION FOR EACH WORK AREA WILL NOT BE PAID FOR SEPARATELY, BUT SHALL BE INCLUDED IN THE LUMP SUM PRICE FOR THIS ITEM. ALL ADDITIONAL TRAFFIC CONTROL DEVICES AND TRAFFIC CONTROL SIGNS REQUIRED TO MAINTAIN THE TRAFFIC CONTROL AS SHOWN ON THE PLANS OR AS DIRECTED BY THE ENGINEER SHALL BE INCLUDED IN THE LUMP SUM PRICE OF TRAFFIC CONTROL AND PROTECTION (SPECIAL).
3. TRAFFIC CONTROL DEVICES AND TRAFFIC CONTROL SIGNS MAY BE ADJUSTED TO FIT FIELD CONDITIONS AS DIRECTED BY THE ENGINEER.
4. TRAFFIC CONTROL SURVEILLANCE WILL NOT BE PAID FOR SEPARATELY FOR THIS PROJECT. THE CONTRACTOR SHALL BE RESPONSIBLE FOR INSPECTING AND MAINTAINING ALL TRAFFIC CONTROL DEVICES AND SIGNS AT ALL TIMES INCLUDING NIGHTTIME, WEEKENDS, AND ANY TIME WORKERS ARE NOT PRESENT. THIS WORK SHALL BE PERFORMED IN ACCORDANCE WITH RECURRING SPECIAL PROVISION LRS3. THE COST OF ALL LABOR, MATERIALS, AND EQUIPMENT REQUIRED FOR THE INSPECTION AND MAINTENANCE OF THE TRAFFIC CONTROL DEVICES AND SIGNS SHALL BE INCLUDED IN THE LUMP SUM PRICE OF TRAFFIC CONTROL AND PROTECTION (SPECIAL).
5. FLASHING LIGHTS SHALL BE PLACED ON ALL TYPE III BARRICADES IN ACCORDANCE WITH STANDARD 701901 UNLESS OTHERWISE SHOWN ON THE PLANS OR DIRECTED BY THE ENGINEER.
6. THE CONTRACTOR SHALL NOTIFY THE ENGINEER OF ALL ROAD CLOSURES A MINIMUM OF 48 HOURS IN ADVANCE OF THE ROAD CLOSURES.
7. MACON COUNTY WILL BE RESPONSIBLE FOR NOTIFYING THE PUBLIC, THE UNITED STATES POSTAL SERVICE, AND THE EMERGENCY SERVICE AGENCIES OF ALL ROAD CLOSURES.
8. THERE WILL BE A DEDUCTION FOR TRAFFIC CONTROL DEFICIENCIES AS SPECIFIED IN ARTICLE 105.03(b) OF THE STANDARD SPECIFICATIONS.
9. THE CONTRACTOR SHALL USE AGGREGATE TO PROVIDE ACCESS TO THE ENTRANCES AT LT. STA. 94+74 AND RT. STA. 97+63 AS DIRECTED BY THE ENGINEER. FURNISHING, PLACING, SALVAGING, AND REMOVING ALL AGGREGATE THAT IS USED TO PROVIDE ACCESS WILL NOT BE PAID FOR SEPARATELY BUT SHALL BE INCLUDED IN THE LUMP SUM PRICE OF TRAFFIC CONTROL AND PROTECTION (SPECIAL), AND NO ADDITIONAL COMPENSATION WILL BE ALLOWED. THIS WORK SHALL BE PERFORMED IN ACCORDANCE WITH SECTION 402 OF THE STANDARD SPECIFICATIONS.
10. THE CONTRACTOR SHALL USE TEMPORARY RAMPS TO PROVIDE ACCESS TO THE ENTRANCES AT LT. STA. 94+74 AND RT. STA. 97+63 AS REQUIRED BY THE PAVING OPERATIONS AND AS DIRECTED BY THE ENGINEER. CONSTRUCTING, MAINTAINING, AND REMOVING ALL TEMPORARY RAMPS WILL NOT BE PAID FOR SEPARATELY BUT SHALL BE INCLUDED IN THE LUMP SUM PRICE OF TRAFFIC CONTROL AND PROTECTION (SPECIAL), AND NO ADDITIONAL COMPENSATION WILL BE ALLOWED. THIS WORK SHALL BE PERFORMED IN ACCORDANCE WITH SECTION 406 OF THE STANDARD SPECIFICATIONS.

TRAFFIC CONTROL SCHEDULE			
CODE NO.	DESCRIPTION	UNIT	QTY.
X7010216	TRAFFIC CONTROL AND PROTECTION (SPECIAL)	L SUM	1

ROAD CLOSURE PLAN

FILE NAME = p:\M0320060_Macon County - CH 21 Str No 058-3006 Rep\Plans\Sheets\09_CH21_BB_traffic.dgn
 PLOT DATE = 4/5/2014

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 DATE - 04/2014

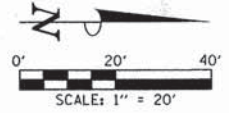
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STATE OF ILLINOIS
 DEPARTMENT OF TRANSPORTATION

TRAFFIC CONTROL PLAN

SCALE : NONE SHEET NO. 9 OF 29 SHEETS STA. TO STA.

F.A.S. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
546	12-00245-00-BR	MACON	29	9
CH 21 OVER SOUTH FORK CREEK		CONTRACT NO. 95739		
FED. ROAD DIST. NO. ILLINOIS FED. AID PROJECT				



EROSION CONTROL NOTES

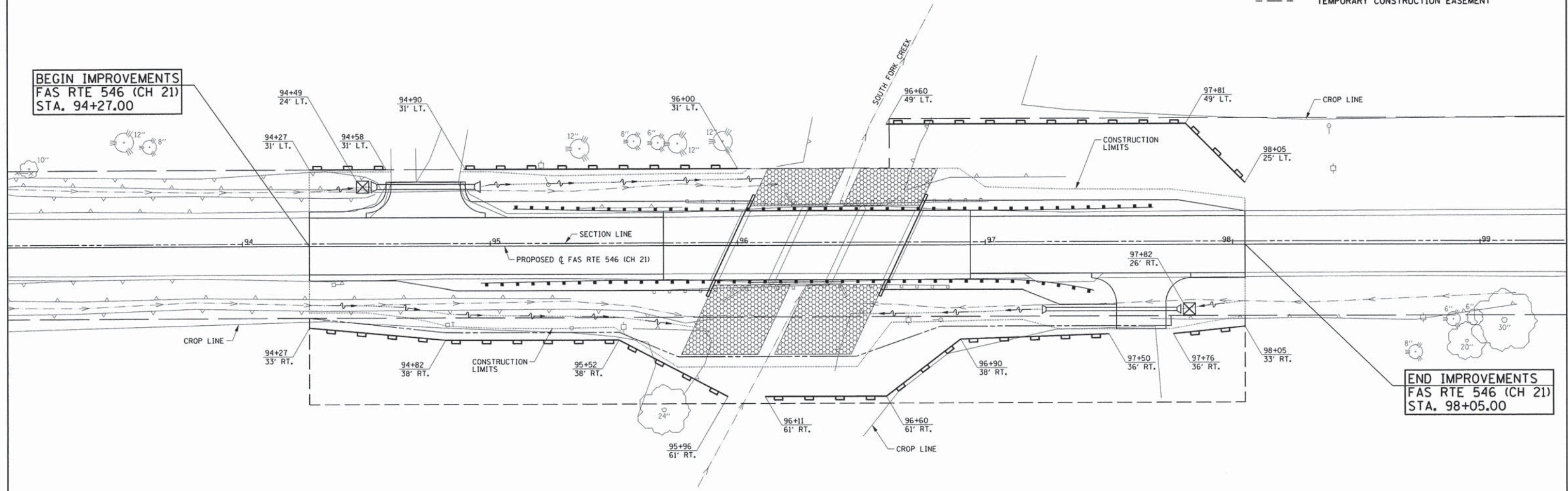
1. THE TEMPORARY EROSION CONTROL SYSTEMS SHALL BE INSTALLED AND MAINTAINED BY THE CONTRACTOR AT THE LOCATIONS SHOWN ON THE EROSION CONTROL PLAN AND AS DIRECTED BY THE ENGINEER. THIS WORK SHALL BE IN ACCORDANCE WITH STANDARD 280001 AND SECTION 280 OF THE STANDARD SPECIFICATIONS.
2. ADDITIONAL TEMPORARY EROSION CONTROL SYSTEMS MAY BE REQUIRED DURING CONSTRUCTION. THE SYSTEMS SHALL BE PLACED AS DIRECTED BY THE ENGINEER AND SHALL BE PAID FOR IN ACCORDANCE WITH SECTION 280 OF THE STANDARD SPECIFICATIONS.
3. TEMPORARY EROSION CONTROL SEEDING SHALL BE PERFORMED AS DIRECTED BY THE ENGINEER AND IN ACCORDANCE WITH SECTION 280 OF THE STANDARD SPECIFICATIONS. THE QUANTITY OF TEMPORARY EROSION CONTROL SEEDING NEEDED TO COVER THE ENTIRE AREA OF PERMANENT SEEDING HAS BEEN ALLOWED FOR THIS PROJECT.
4. PERMANENT FERTILIZING, SEEDING, AND MULCHING OF DISTURBED EARTH AREAS SHALL BE PERFORMED AS SOON AS POSSIBLE AFTER THE COMPLETION OF EACH STAGE OF THE PROJECT TO EXPEDITE THE ESTABLISHMENT OF VEGETATION. THE FINAL GRADING MUST BE APPROVED BY THE ENGINEER BEFORE THE PERMANENT SEEDING IS PERFORMED.
5. THE MAINTENANCE OF THE TEMPORARY EROSION CONTROL SYSTEMS WILL NOT BE PAID FOR SEPARATELY AS DESCRIBED IN ARTICLE 280.08 OF THE STANDARD SPECIFICATIONS AND SHALL BE INCLUDED IN THE COST OF THE VARIOUS EROSION CONTROL PAY ITEMS.
6. THE CONTRACTOR SHALL BE RESPONSIBLE FOR THE SEEDING AREAS UNTIL THEY ARE FULLY ESTABLISHED AS DETERMINED BY THE ENGINEER, WHICH MAY REQUIRE RESEEDING OF ANY BARE AREAS AND PLACING ADDITIONAL MULCH UNTIL SEED GROWTH IS ESTABLISHED. THE CONTRACTOR SHALL MAINTAIN THE SEEDING AREAS UNTIL THEY ARE FULLY ESTABLISHED AS DETERMINED BY THE ENGINEER. THE CONTRACTOR SHALL GUARANTEE A MINIMUM OF 75% UNIFORM GROWTH OVER THE ENTIRE SEEDING AREA FOR ONE GROWING SEASON OR AS OTHERWISE DETERMINED BY THE ENGINEER. NO ADDITIONAL COMPENSATION WILL BE ALLOWED FOR ANY ADDITIONAL SEEDING AND MULCHING REQUIRED TO MAINTAIN THE SEEDING AREAS AFTER THE INITIAL APPLICATION OF SEED AND MULCH.

SUGGESTED EROSION CONTROL SEQUENCE

1. PLACE PERIMETER EROSION BARRIER PRIOR TO STARTING ANY WORK.
2. INSTALL INLET AND PIPE PROTECTION AT PROPOSED CULVERTS AS SOON AS THEY HAVE BEEN CONSTRUCTED. INSTALL TEMPORARY DITCH CHECKS AS DIRECTED BY THE ENGINEER. PLACE TEMPORARY EROSION CONTROL SEEDING AS SOON AS THE ROUGH GRADING IS COMPLETE AS DIRECTED BY THE ENGINEER.
3. MAINTAIN ALL EROSION CONTROL SYSTEMS UNTIL SUCH TIME THAT THEY CAN BE REMOVED AS DIRECTED BY THE ENGINEER.
4. FERTILIZE, SEED, AND MULCH DISTURBED EARTH AREAS AS SOON AS THE FINAL GRADING AND SHAPING IS COMPLETE.
5. REMOVE AND CLEANUP ALL REMAINING EROSION CONTROL SYSTEMS AS DIRECTED BY THE ENGINEER.

LEGEND

- PERIMETER EROSION BARRIER
- INLET AND PIPE PROTECTION
- EXISTING RIGHT-OF-WAY
- PROPOSED RIGHT-OF-WAY
- TEMPORARY CONSTRUCTION EASEMENT



BEGIN IMPROVEMENTS
 FAS RTE 546 (CH 21)
 STA. 94+27.00

END IMPROVEMENTS
 FAS RTE 546 (CH 21)
 STA. 98+05.00

28000250
 TEMPORARY EROSION CONTROL SEEDING = 40 POUND
 PLACED AS DIRECTED BY THE ENGINEER.

28000305
 TEMPORARY DITCH CHECKS = 75 FOOT
 PLACED AS DIRECTED BY THE ENGINEER.

28000400
 PERIMETER EROSION BARRIER = 700 FOOT
 PLACED AS SHOWN ON THE PLANS AND AS DIRECTED
 BY THE ENGINEER.

28000500
 INLET AND PIPE PROTECTION = 2 EACH
 PLACED AS SHOWN ON THE PLANS AND AS DIRECTED
 BY THE ENGINEER.

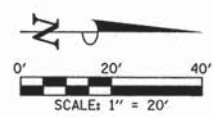
STATE OF ILLINOIS
 DEPARTMENT OF TRANSPORTATION

EROSION CONTROL PLAN

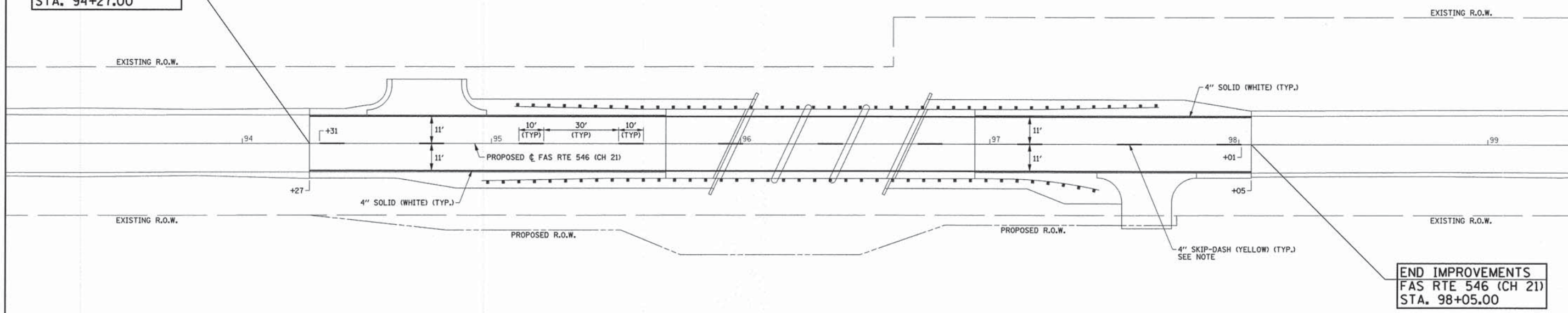
SCALE : 1"=20' SHEET NO. 10 OF 29 SHEETS STA. 94+27.00 TO STA. 98+05.00

F.A.S. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
546	12-00245-00-BR	MACON	29	10
CH 21 OVER SOUTH FORK CREEK		CONTRACT NO. 95739		
FED. ROAD DIST. NO.		ILLINOIS FED. AID PROJECT		

FILE NAME = P:\M0320060_Macon County - CH 21 Str No 058-3006 Repl\Plans\sheets\10_CH21_BB_swpppREV1.dgn	DESIGNED - JAJ	REVISED - 04/2014
PLOT DATE = 4/30/2014	DRAWN - JAJ	REVISED -
	CHECKED - SMW	REVISED -
	DATE - 04/2014	REVISED -



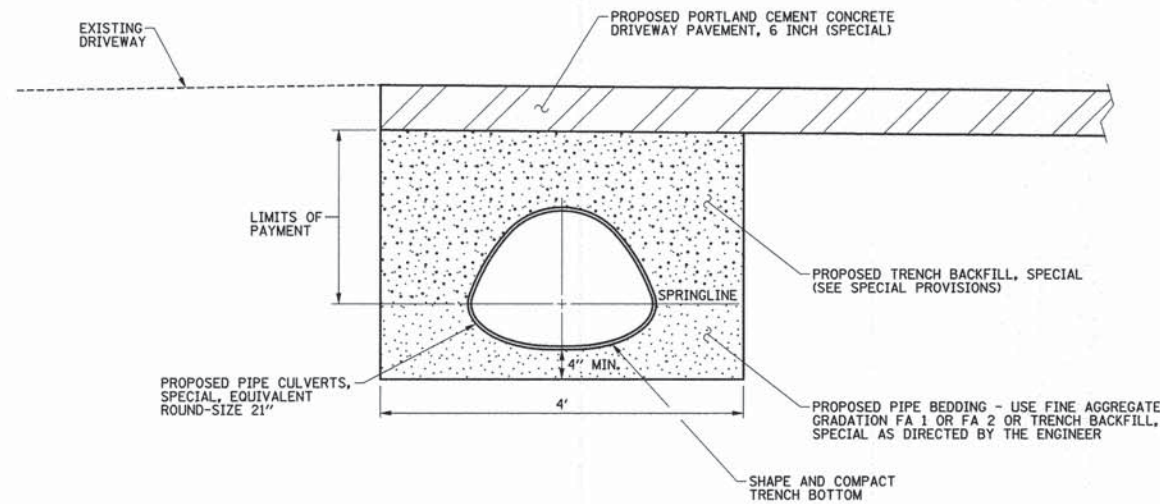
BEGIN IMPROVEMENTS
 FAS RTE 546 (CH 21)
 STA. 94+27.00



END IMPROVEMENTS
 FAS RTE 546 (CH 21)
 STA. 98+05.00

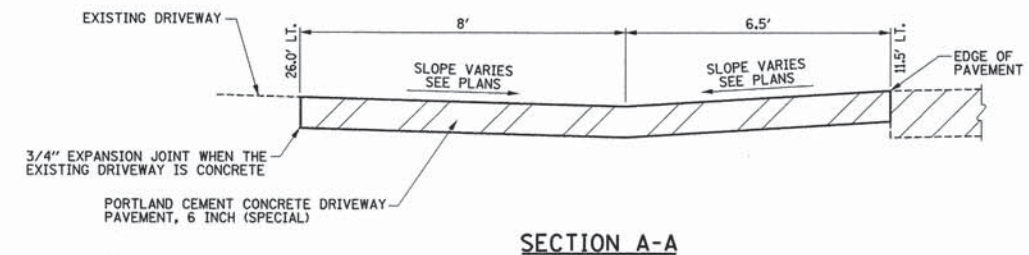
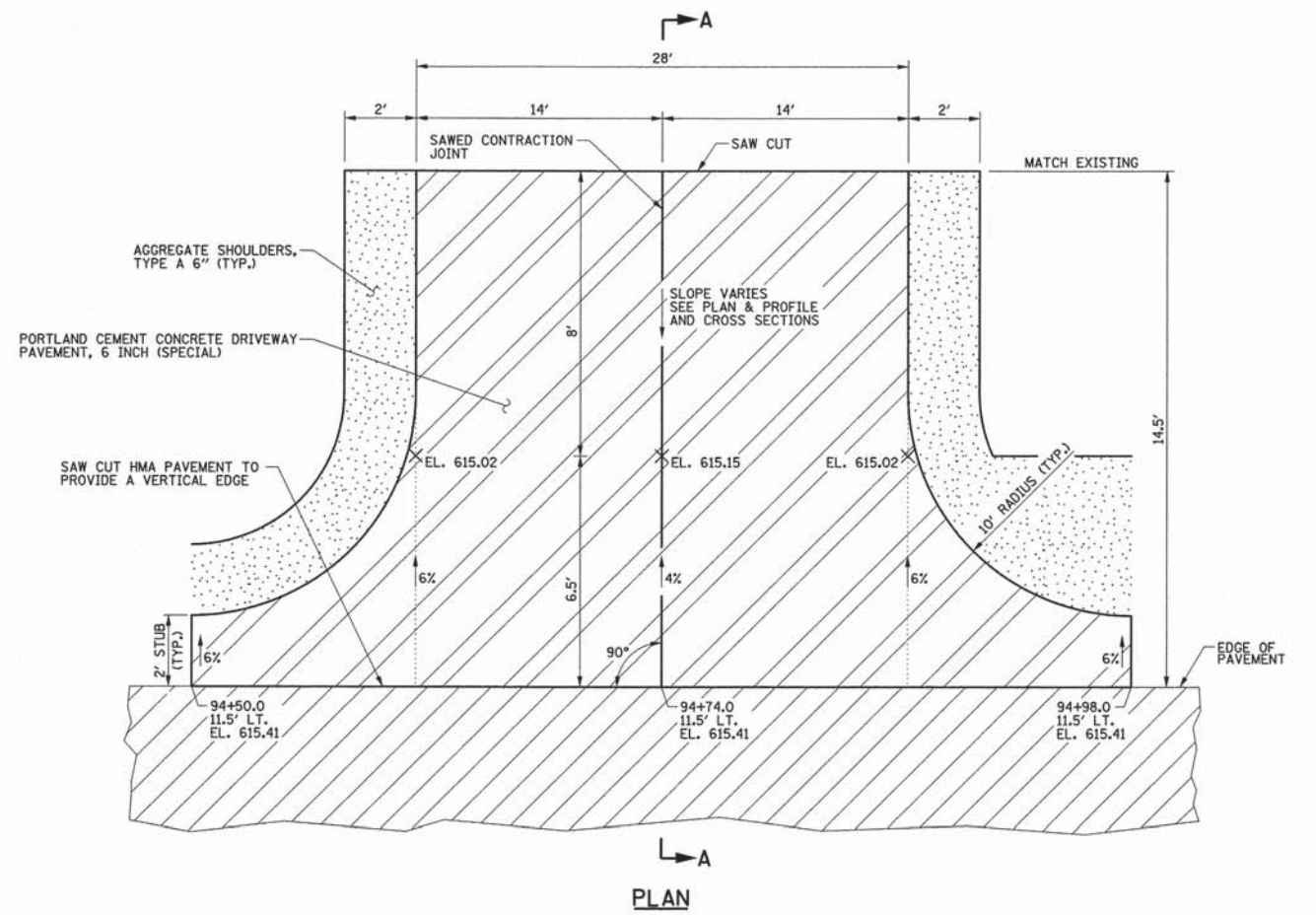
78001110 PAINT PAVEMENT MARKING - LINE 4"		
LOCATION	SKIP-DASH YELLOW (FOOT) SEE NOTE	SOLID WHITE (FOOT)
FAS RTE 546 (CH 21)		
94+31 $\bar{\bar{c}}$ TO 98+01 $\bar{\bar{c}}$	100	
94+27 LT. TO 98+05 LT.		378
94+27 RT. TO 98+05 RT.		378
SUBTOTAL	100	756
TOTAL		856

NOTE
 THE LOCATIONS OF THE 4" SKIP-DASHES MAY BE ADJUSTED
 AS DIRECTED BY THE ENGINEER TO COINCIDE WITH THE
 EXISTING PAVEMENT MARKINGS.



NOTES:
 1. THE MATERIAL USED FOR BEDDING BELOW THE SPRINGLINE OF THE PIPE CULVERT WILL NOT BE MEASURED FOR PAYMENT BUT SHALL BE INCLUDED IN THE COST OF THE PIPE CULVERT, AND NO ADDITIONAL COMPENSATION WILL BE ALLOWED.

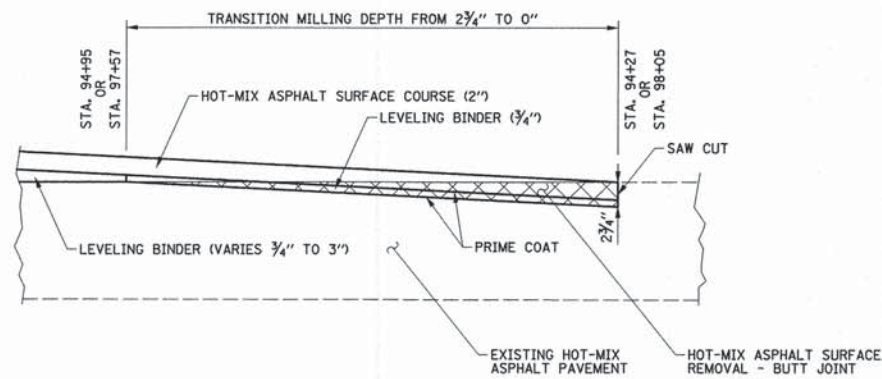
PIPE CULVERT DETAIL
 FOR PRIVATE ENTRANCE



NOTES:
 1. THE DRIVEWAY SHALL BE CONSTRUCTED WITH AN IDOT APPROVED CLASS PV HIGH EARLY STRENGTH CONCRETE MIX IN ACCORDANCE WITH SECTION 1020 OF THE STANDARD SPECIFICATIONS.
 2. THE COST OF FURNISHING AND INSTALLING THE 3/4" EXPANSION JOINT SHALL BE INCLUDED IN THE COST OF THE PORTLAND CEMENT CONCRETE DRIVEWAY PAVEMENT. NO ADDITIONAL COMPENSATION WILL BE ALLOWED.

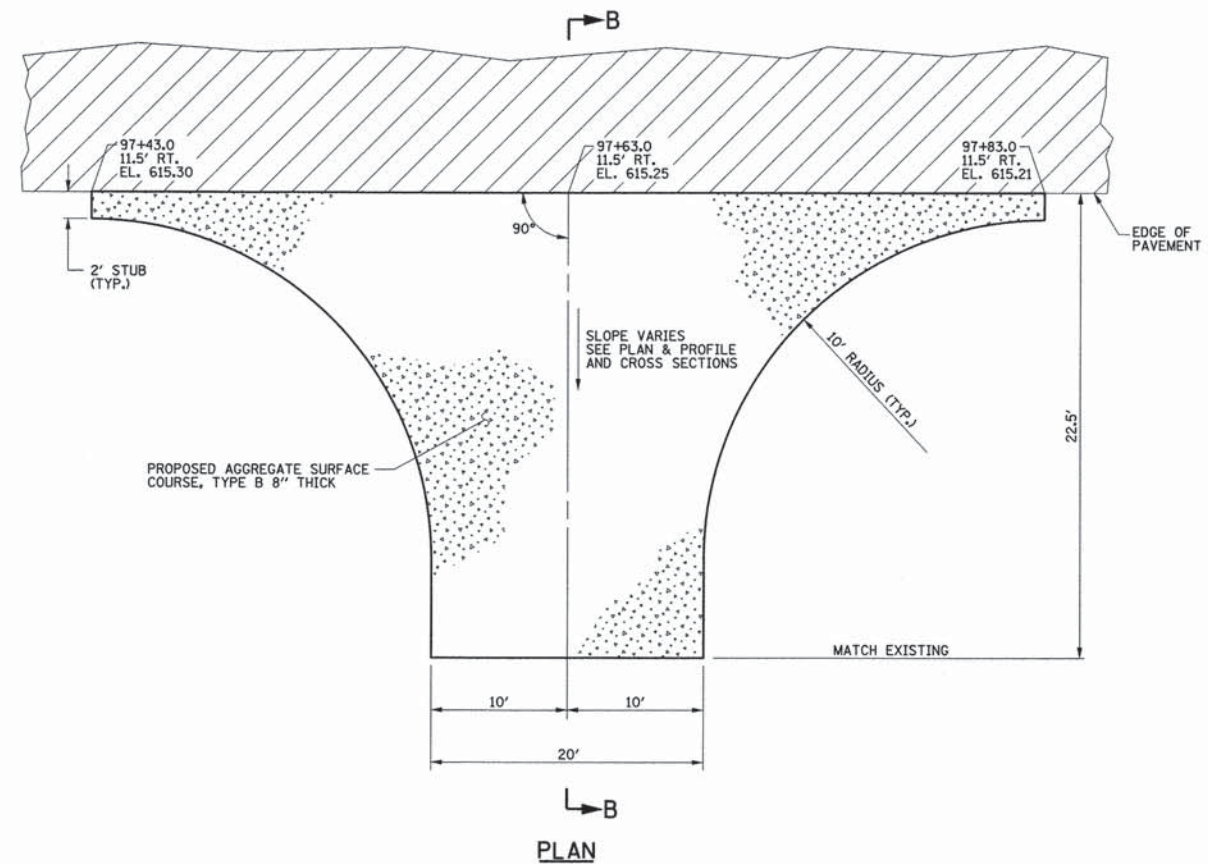
PRIVATE ENTRANCE DETAIL
 STA. 94+74.0, 26.0' LT.

FILE NAME = p:\M0320060_Macon County - CH 21 Str No 058-3006 Rep\Plans\sheets\12_CH21_BB_details.dgn	DESIGNED - JAJ	REVISED -	STATE OF ILLINOIS DEPARTMENT OF TRANSPORTATION	MISCELLANEOUS DETAILS		F.A.S. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
	DRAWN - JAJ	REVISED -		SCALE : NONE	SHEET NO. 12 OF 29 SHEETS	STA.	TO STA.	546	12-00245-00-BR	MACON
PLOT DATE = 4/5/2014	CHECKED - SMW	REVISED -				CH 21 OVER SOUTH FORK CREEK		CONTRACT NO. 95739		
	DATE - 04/2014	REVISED -				FED. ROAD DIST. NO.	ILLINOIS	FED. AID PROJECT		

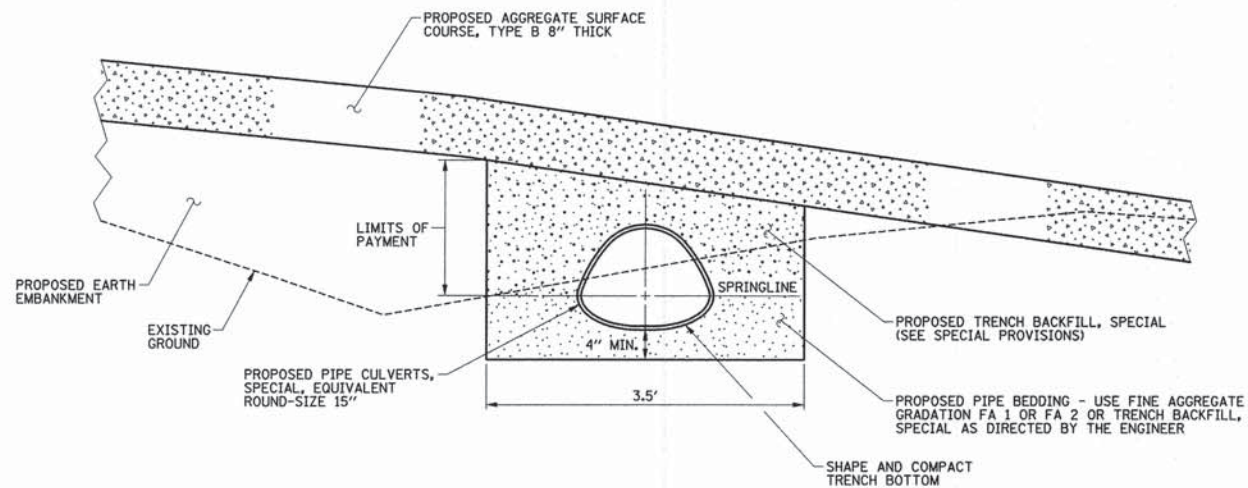


- NOTES:
1. THE HOT-MIX ASPHALT SURFACE COURSE, LEVELING BINDER, AND PRIME COAT REQUIRED FOR THIS WORK WILL BE PAID FOR SEPARATELY.

HOT-MIX ASPHALT SURFACE REMOVAL - BUTT JOINT DETAIL
 STA. 94+27 TO STA. 94+95 AND STA. 97+57 TO STA. 98+05

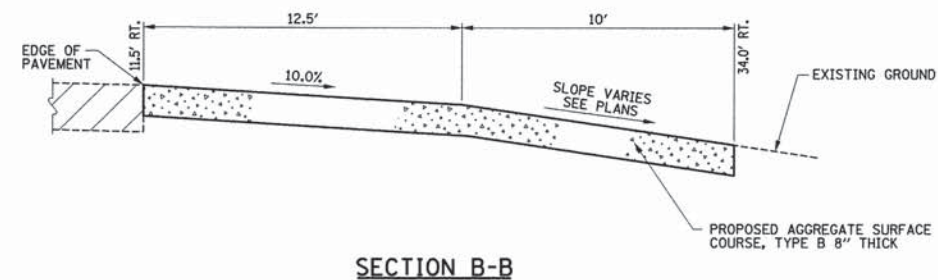


FIELD ENTRANCE DETAIL
 STA. 97+63.0, 34.0' RT.



- NOTES:
1. THE MATERIAL USED FOR BEDDING BELOW THE SPRINGLINE OF THE PIPE CULVERT WILL NOT BE MEASURED FOR PAYMENT BUT SHALL BE INCLUDED IN THE COST OF THE PIPE CULVERT, AND NO ADDITIONAL COMPENSATION WILL BE ALLOWED.

PIPE CULVERT DETAIL
 FOR FIELD ENTRANCE



FILE NAME = p:\M0320080_Macon County - CH 21 Str No 058-3006 Rep\Plans\sheet113_CH21_BB_details.dgn
 PLOT DATE = 4/5/2014

DESIGNED - JAJ	REVISED -
DRAWN - JAJ	REVISED -
CHECKED - SMW	REVISED -
DATE - 04/2014	REVISED -

STATE OF ILLINOIS
 DEPARTMENT OF TRANSPORTATION

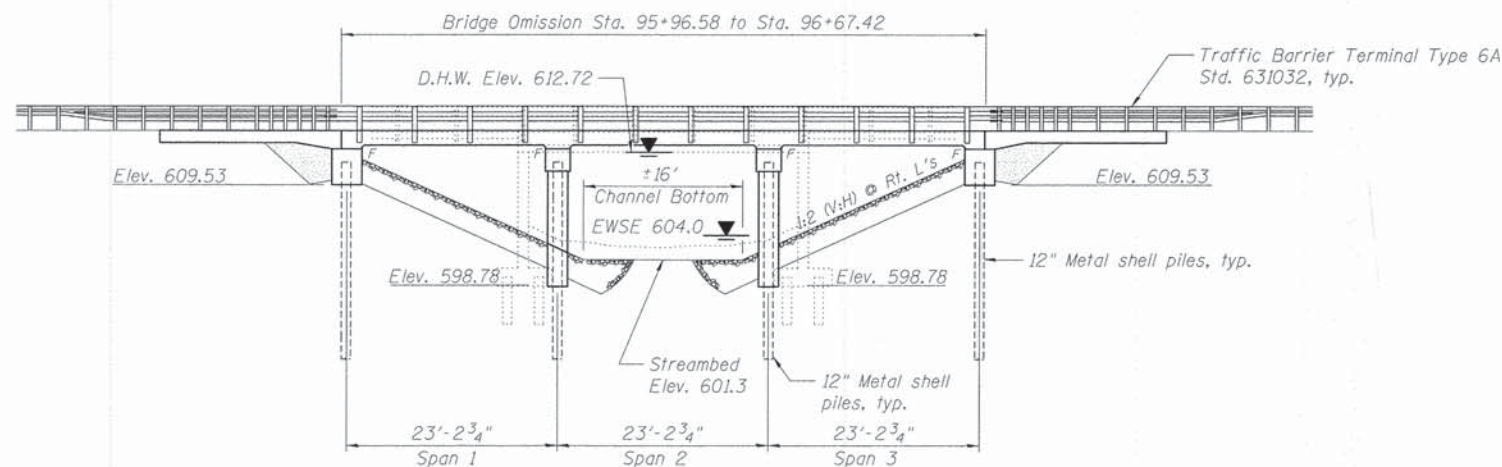
MISCELLANEOUS DETAILS

SCALE : NONE SHEET NO. 13 OF 29 SHEETS STA. TO STA.

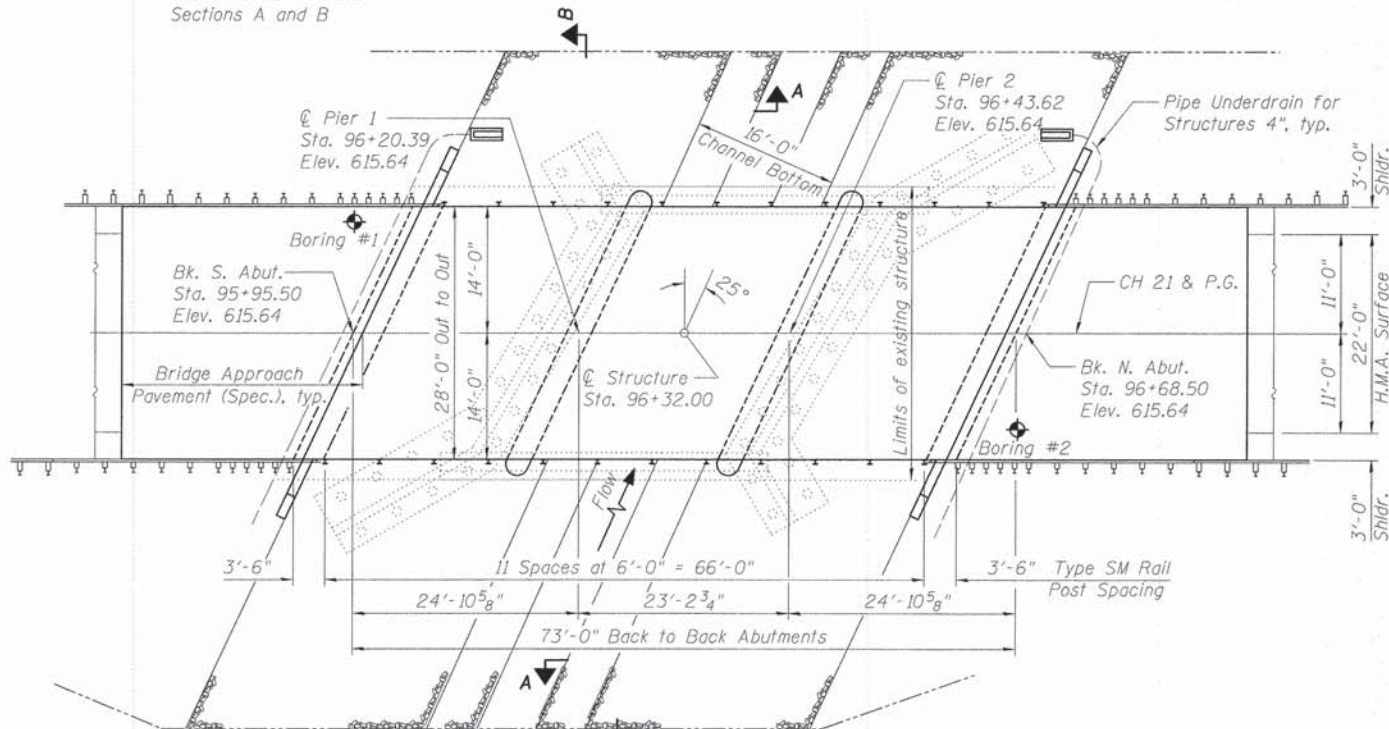
F.A.S. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
546	12-00245-00-BR	MACON	29	13
CH 21 OVER SOUTH FORK CREEK			CONTRACT NO. 95739	
FED. ROAD DIST. NO.		ILLINOIS FED. AID PROJECT		

Bench Mark: TBM-1, top of star spike in pole STA. 95+20.7, 32.6' LT, Elevation = 613.60

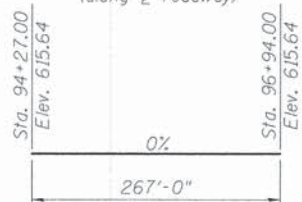
Existing Structure: SN 058-3006 was originally built in 1931 with a cast-in-place substructure and cast-in-place slab superstructure at STA 96+29 (STA 96+32 according to survey). In 1971 the superstructure was widened using PPC deck beams. The bridge has one span with a reinforced concrete slab supported by closed abutments. The bridge length is 37'-0" Bk. to Bk. of abutments with 30'-6" roadway width between 1'-0" wide concrete curbs with steel railing. The existing structure to be removed and replaced without staged construction.



See Sheet 2 of 9 for Sections A and B



PROFILE GRADE
(along roadway)



PLAN

I certify that to the best of knowledge, information and belief, this bridge/box culvert design is structurally adequate for the design loading shown on the plans. The design is an economical one for the style of structure and complies with requirements of the current AASHTO Standard Specifications for Highway Bridges.



Sean W. Marzano
Structural Engineer
Clark Dietz, Inc.

DATE: 4/4/2014
License Expires 11-30-2014



LOCATION SKETCH

WATERWAY INFORMATION

Drainage Area = 6.2 sq. miles		Low Grade Elev. 615.39 @ Sta. 98+05				
Flood	Freq. Yr.	Q C.F.S.	Opening Sq. Ft.	Nat. H.W.E.	Head - Ft. Exist. Prop.	Headwater El. Exist. Prop.
Design	10	1180	185.1 355.0	611.52	0.27 0.24	611.79 611.76
	20	1541	204.5 422.2	612.72	0.75 0.24	613.47 612.96
	50	1960	204.5 475.3	613.87	1.64 0.26	615.51 613.96
	100	2310	204.5 475.9	614.63	1.27 0.35	615.90 614.98
Max. Calc.	500	3190	204.5 475.9	615.31	0.83 0.49	616.14 615.80

DESIGN SCOUR ELEVATION TABLE

Design Scour Elevation (ft.)				
	S. Abut.	Pier 1	Pier 2	N. Abut.
Q100	609.53	596.27	596.27	609.53
Q500	609.53	595.90	595.90	609.53

INDEX OF SHEETS

1. General Plan and Elevation
2. General Notes and Approach Slab
3. Superstructure
4. Steel Raining, Type SM
5. South Abutment
6. North Abutment
7. Piers
8. Metal Sheet Pile Details
9. Soil Borings

TOTAL BILL OF MATERIAL

ITEM	UNIT	SUPER	SUB	TOTAL
Channel Excavation	Cu Yd			804
Cofferdam Excavation	Cu Yd		90	90
* Cofferdam (Type 1) (Location 1)	Each		1	1
* Cofferdam (Type 1) (Location 2)	Each		1	1
Filter Fabric	Sq Yd		550	550
Removal Of Existing Structures	Each		1	1
Structure Excavation	Cu Yd		148	148
Concrete Structures	Cu Yd		105.4	105.4
* Concrete Superstructure	Cu Yd	99.2		99.2
Bridge Deck Grooving	Sq Yd	358		358
Reinforcement Bars, Epoxy Coated	Pound	26,100	11,290	37,390
Steel Railing, Type SM	Foot	142		142
Furnishing Metal Shell Piles 12" x 0.250"	Foot		597	597
Driving Piles	Foot		597	597
Test Pile Metal Shells	Each		2	2
Name Plates	Each		1	1
Geocomposite Wall Drain	Sq Yd		44	44
Stone Riprap, Class A5	Sq Yd		550	550
* Granular Backfill For Structures	Cu Yd		72	72
* Pipe Underdrains for Structures 4"	Foot		124	124
* Bridge Approach Pavement (Special)	Sq Yd		166	166

*Pay item governed by Special Provision.

BOUGH BRIDGE
SOUTH FORK CREEK
BUILT BY
MACON COUNTY
SEC. 12-00245-00-BR
F.A.S. 546 STA. 96+32.00
STR. NO. 058-3398 LOADING HL-93

NAME PLATE
See Std. 515001

LOADING HL-93

Allow 50#/sq. ft. for future wearing surface.

DESIGN SPECIFICATIONS

2012 AASHTO LRFD Bridge Design Specifications, 6th Edition with 2013 Interims

DESIGN STRESSES
FIELD UNITS

f'c = 5,000 psi
fy = 60,000 psi (Reinforcement)

SEISMIC DATA

Seismic Performance Zone (SPZ) = 1
Design Spectral Acceleration at 1.0 sec. (S₀₁) = 0.10g
Design Spectral Acceleration at 0.2 sec. (S₀₅) = 0.19g
Soil Site Class = B

GENERAL PLAN & ELEVATION

MACON COUNTY CH-21 OVER
SOUTH FORK CREEK
F.A.S. 546 - SEC. 12-00245-00-BR
STATION 96+32.00
STRUCTURE NO. 058-3398

FILE NAME = p:\M0320060_Macon County - CH 21 Str No 058-3006 Rep\Plans\Sheets\01_CH21_BB_gpe.dgn
PLOT DATE = 4/5/2014

DESIGNED - SMM	REVISED -
DRAWN - SMM	REVISED -
CHECKED - RDC	REVISED -
DATE - 04/2014	REVISED -

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

SHEET NO. 1 OF 9 SHEETS

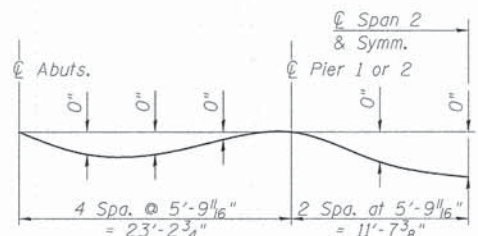
F.A.S. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
546	12-00245-00-BR	MACON	29	14
CH 21 OVER SOUTH FORK CREEK			CONTRACT NO. 95739	
ILLINOIS FED. AID PROJECT				

GENERAL NOTES

Reinforcement bars designated (E) shall be epoxy coated.
 Layout of the slope protection system may be varied to suit ground conditions in the field as directed by the Engineer.

The embankment configuration shown shall be the minimum that must be placed and compacted prior to construction of the abutments.

The Contractor shall make allowance for the deflection of forms, shrinkage and settlement of falsework, in addition to allowance for dead load deflection. Forms for deck slab shall be removed prior to placement of bridge approach slab.



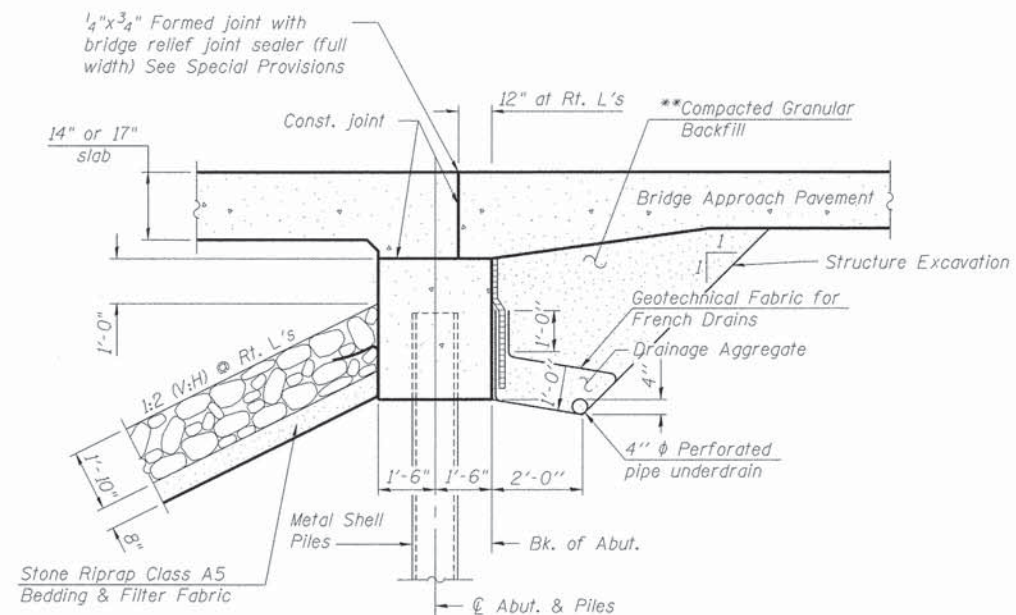
DEAD LOAD DEFLECTION DIAGRAM

The Contractor shall make allowance for the deflection of forms, shrinkage and settlement of falsework in addition to the allowance of dead load deflection.

**APPROACH SLAB
BILL OF MATERIAL**
(two approaches)

Bar	No.	Size	Length	Shape	
a4(E)	80	#4	27'-8"	—	
a5(E)	24	#4	29'-1"	—	
b7(E)	56	#6	10'-3"	—	
b8(E)	28	#6	39'-5"	—	
b9(E)	56	#4	8'-10"	—	
b10(E)	28	#4	39'-5"	—	
Bridge Approach Pavement (Special)				Sq. Yd.	166
Reinforcement Bars, Epoxy Coated				Pound	5,540
Bridge Deck Grooving				Sq. Yd.	154

*See field cutting diagram.



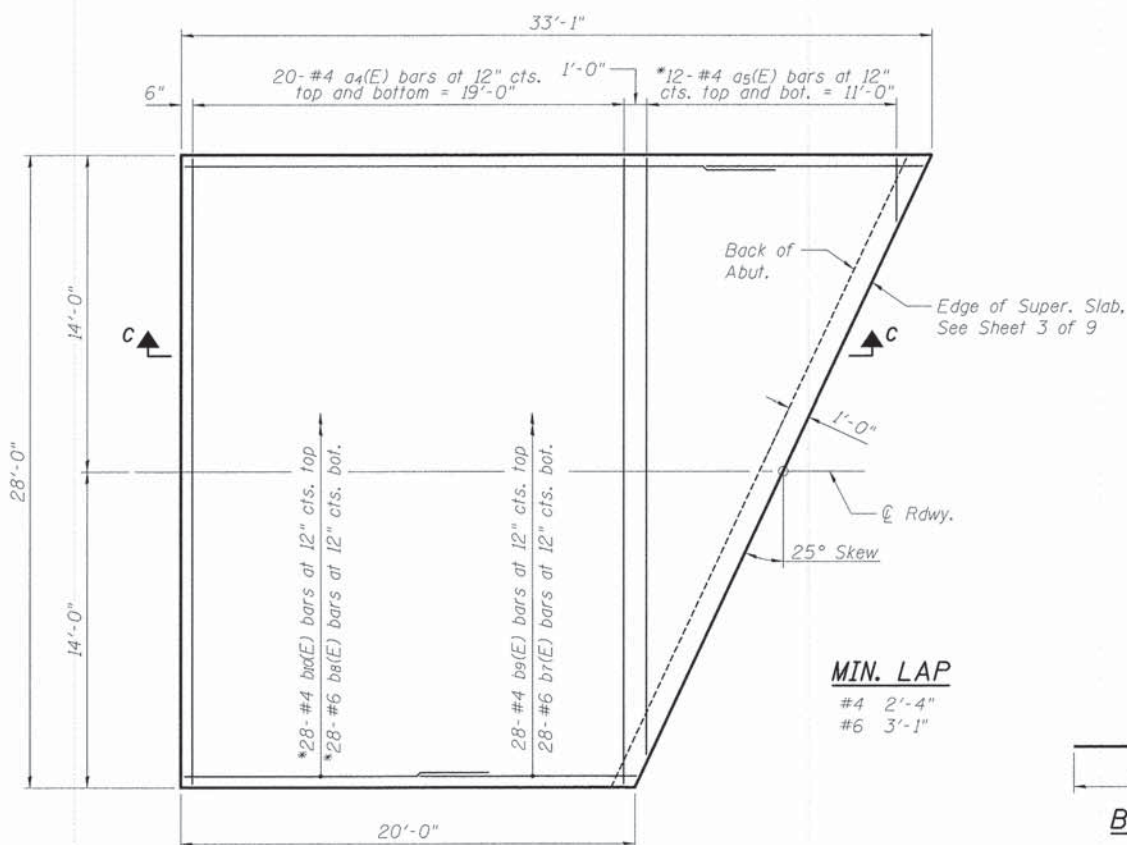
SECTION THRU ABUTMENT

(Horiz. dim's at Rt. L's)

*Included in the cost of Pipe Underdrains for Structures. (See Special Provisions)

All drainage system components shall extend to 2'-0" from the end of each wingwall except an outlet pipe shall extend until intersecting with the side slopes. The pipes shall drain into concrete headwalls. (See Article 601.05 of the Standard Specifications and Highway Standard 601101)

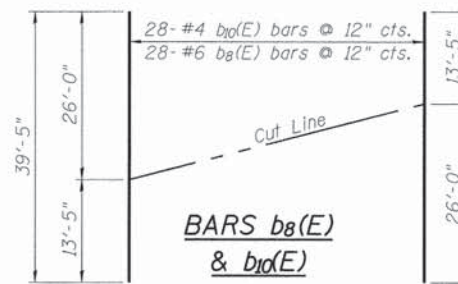
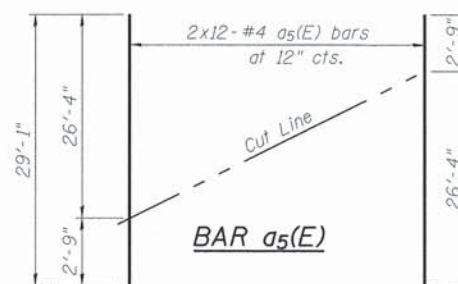
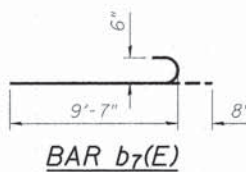
**Compact Granular Embankment to 95% Standard Laboratory Density according to AASHTO T99 Method.



BRIDGE APPROACH PAVEMENT
(opposite approach similar)

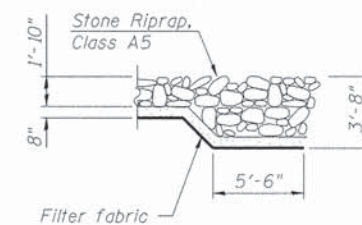
MIN. LAP

#4 2'-4"
#6 3'-1"

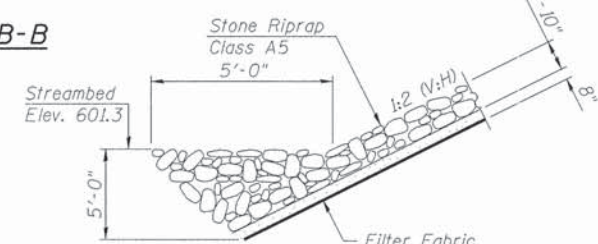


FIELD CUTTING DIAGRAMS

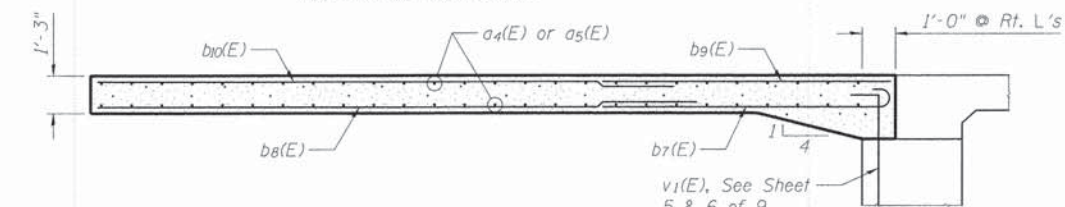
Order a5(E), b8(E) and b10(E) bars full length. Cut as shown and use remainder of bars on opposite end of slab.



SECTION B-B



SECTION A-A



SECTION C-C

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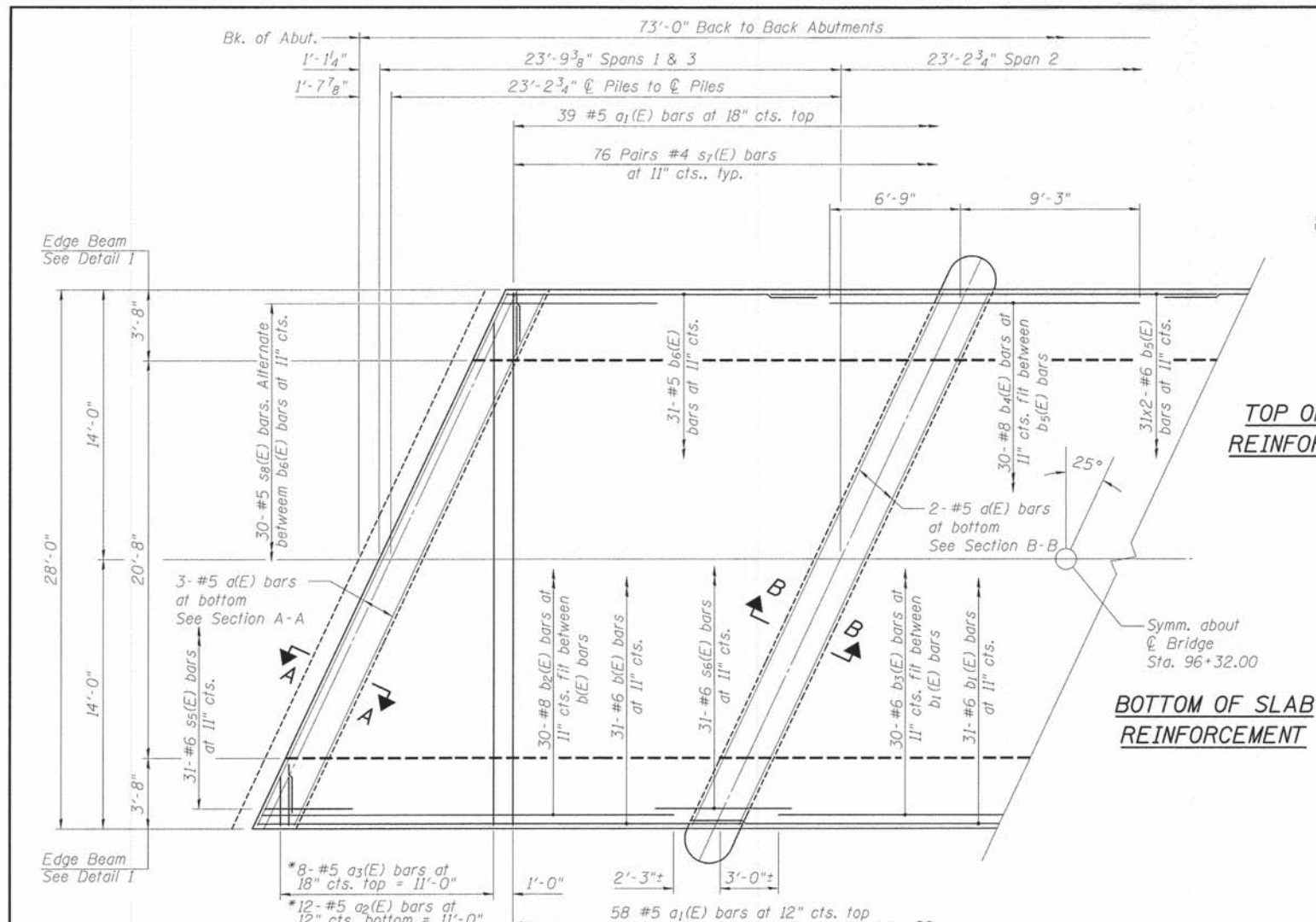
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DRAWN - SMM	REVISED -
CHECKED - RDC	REVISED -
DATE - 04/2014	REVISED -

**STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION**

**GENERAL NOTES
STRUCTURE NO. 058-3396**

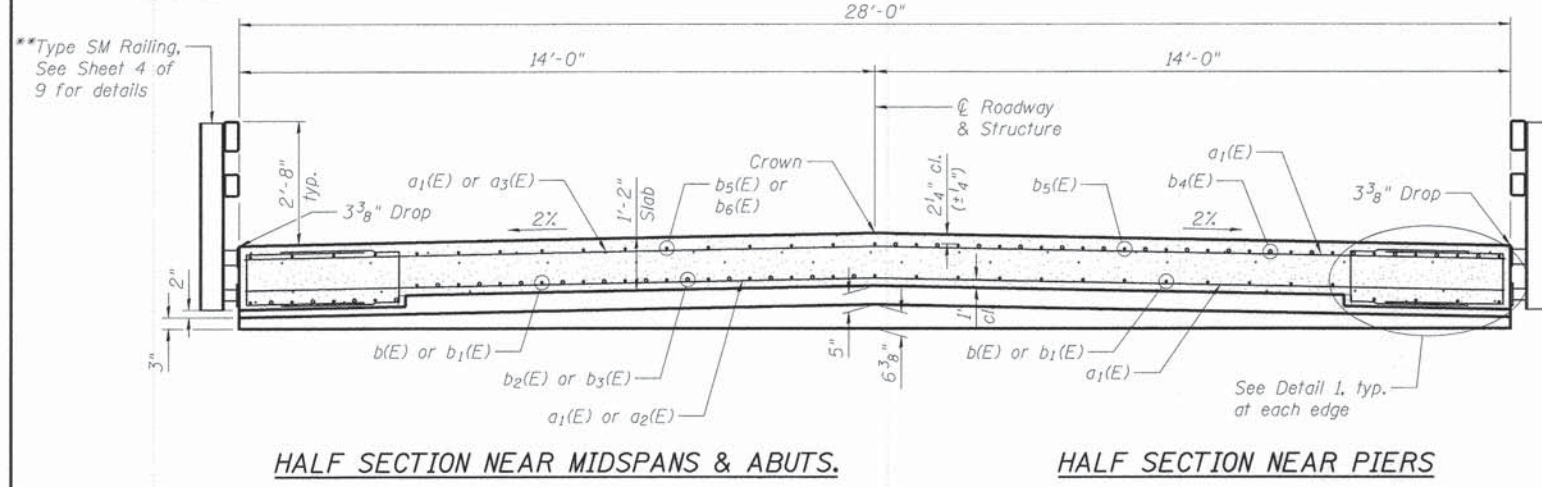
SHEET NO. 2 OF 9 SHEETS

F.A.S. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
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CH 21 OVER SOUTH FORK CREEK		CONTRACT NO. 95739		
ILLINOIS FED. AID PROJECT				



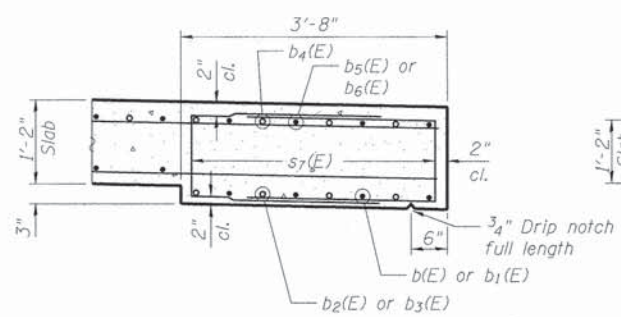
MIN. LAP

#4	2'-4"
#5	2'-3"
#6	2'-8"

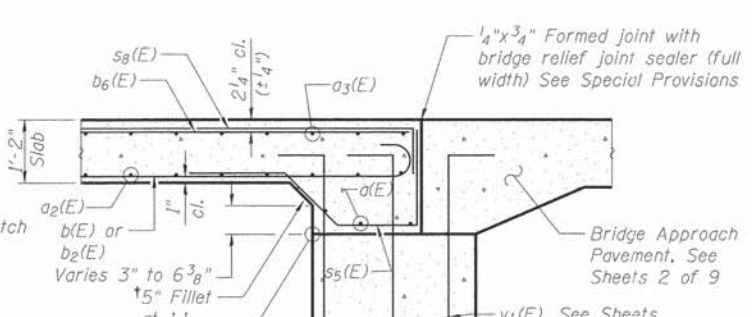


**Studs for rail post anchor devices shall be placed below the top bars, and the outermost longitudinal bars shall be placed directly above the studs of the rail post anchor devices.

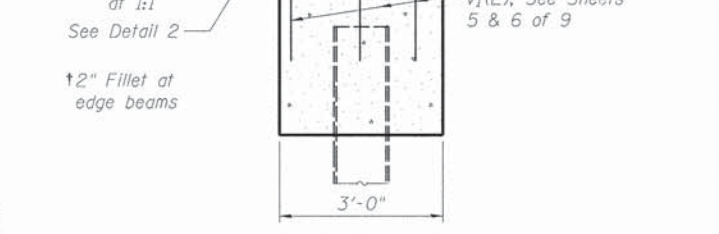
CROSS SECTION
(Looking North)



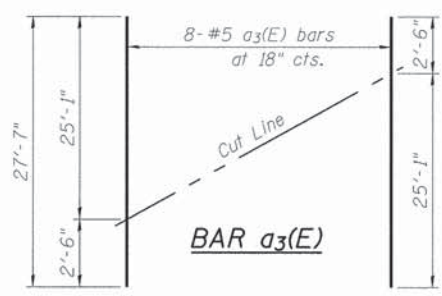
DETAIL 1



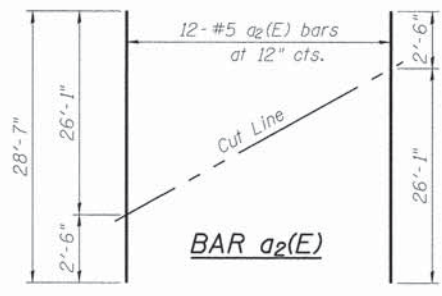
DETAIL 2



SECTION A-A



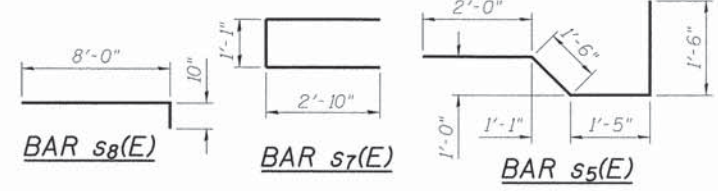
BAR a3(E)



BAR a2(E)

FIELD CUTTING DIAGRAMS

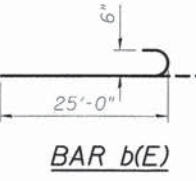
Order a2(E) and a3(E) bars full length. Cut as shown and use remainder of bars on opposite end of slab.



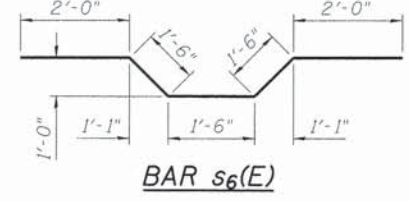
BAR s8(E)

BAR s7(E)

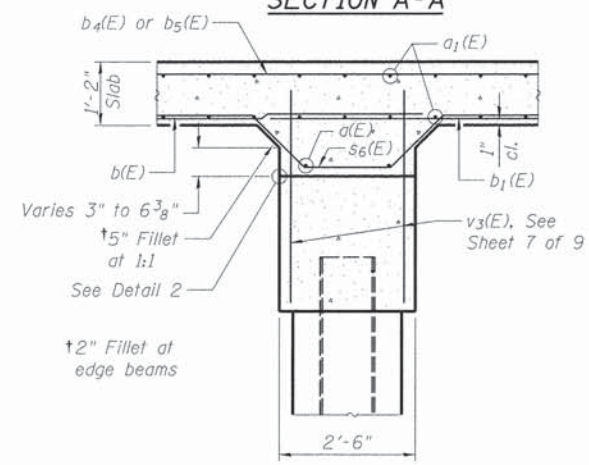
BAR s5(E)



BAR b(E)



BAR s6(E)



SECTION B-B

SUPERSTRUCTURE BILL OF MATERIAL

Bar	No.	Size	Length	Shape
a(E)	10	#5	30'-6"	—
a1(E)	97	#5	27'-8"	—
a2(E)	12	#5	28'-7"	—
a3(E)	8	#5	27'-7"	—
b(E)	62	#6	25'-8"	—
b1(E)	31	#6	26'-0"	—
b2(E)	60	#8	21'-4"	—
b3(E)	30	#6	17'-3"	—
b4(E)	60	#8	16'-0"	—
b5(E)	62	#6	23'-0"	—
b6(E)	62	#5	16'-0"	—
s5(E)	62	#6	6'-5"	—
s6(E)	62	#6	8'-6"	—
s7(E)	304	#4	6'-9"	—
s8(E)	60	#5	8'-10"	—
Concrete Superstructure			Cu. Yd.	99.2
Reinforcement Bars, Epoxy Coated			Pound	20,560
Bridge Deck Grooving			Sq. Yd.	204

*See field cutting diagram.

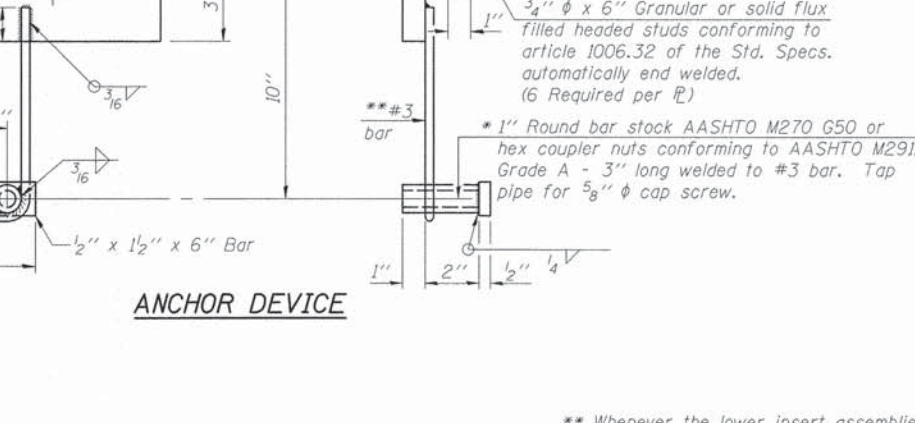
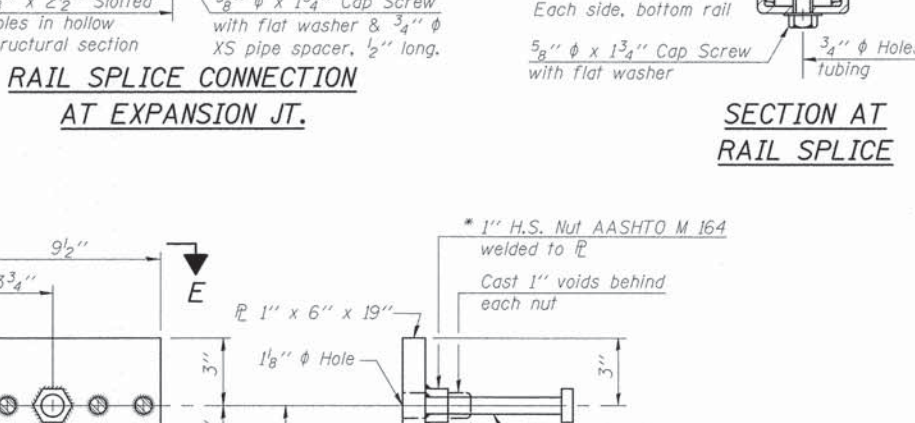
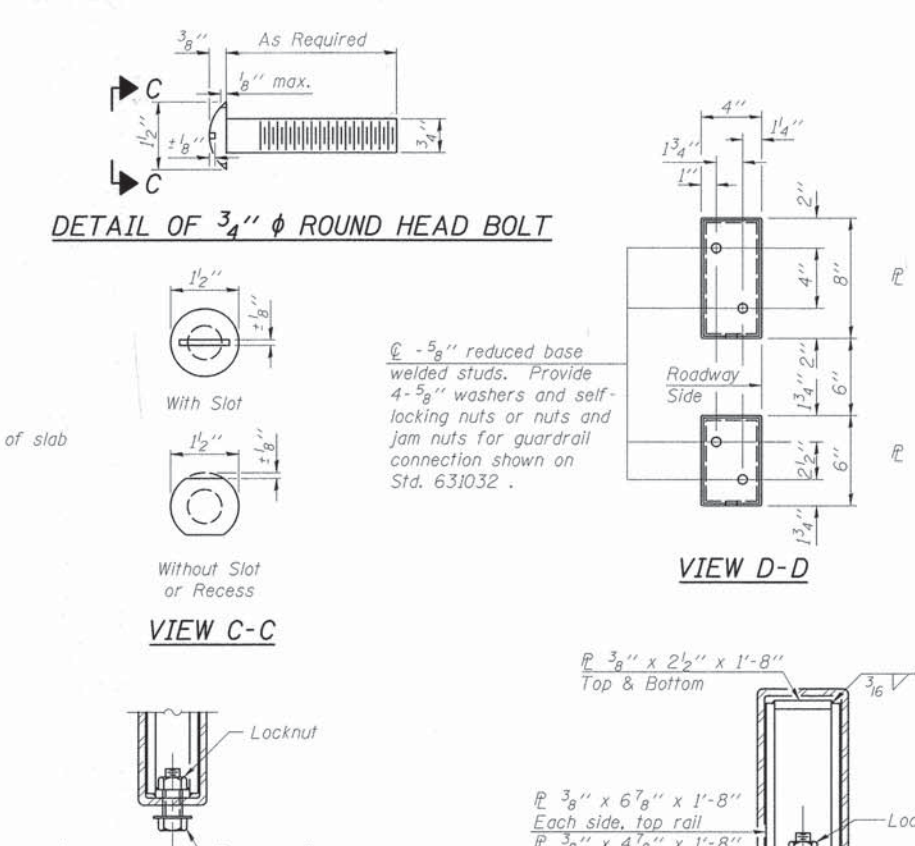
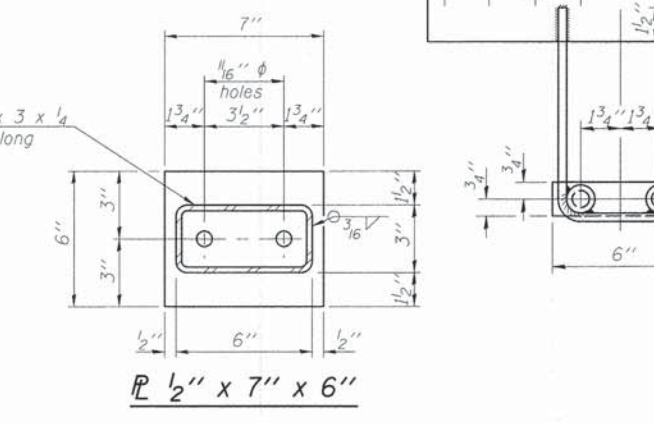
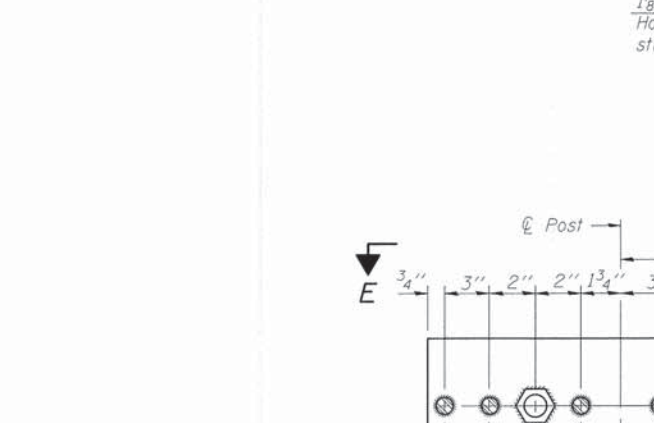
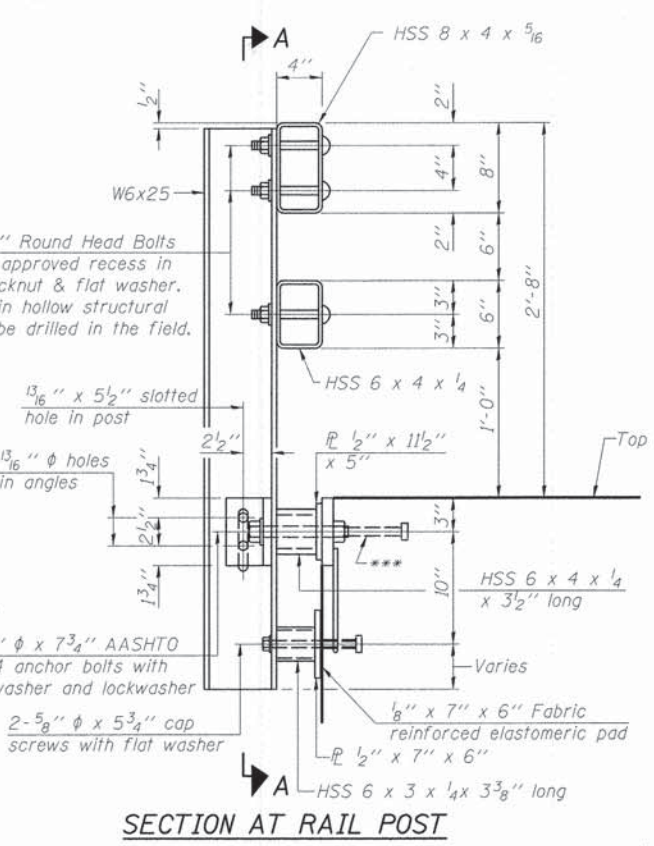
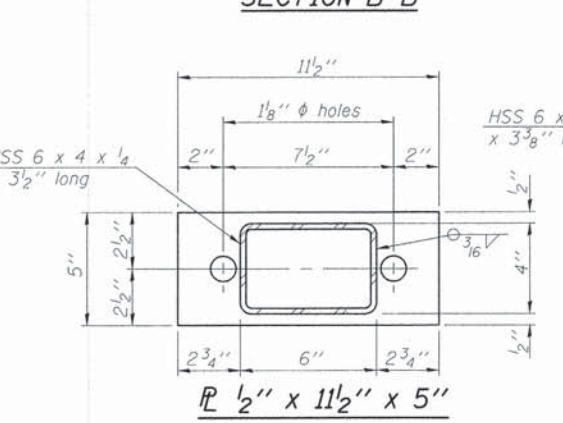
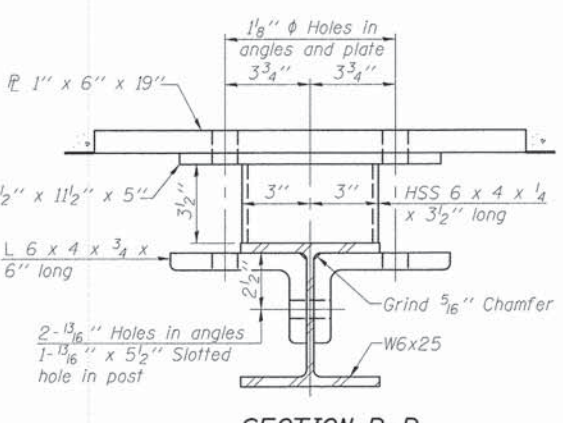
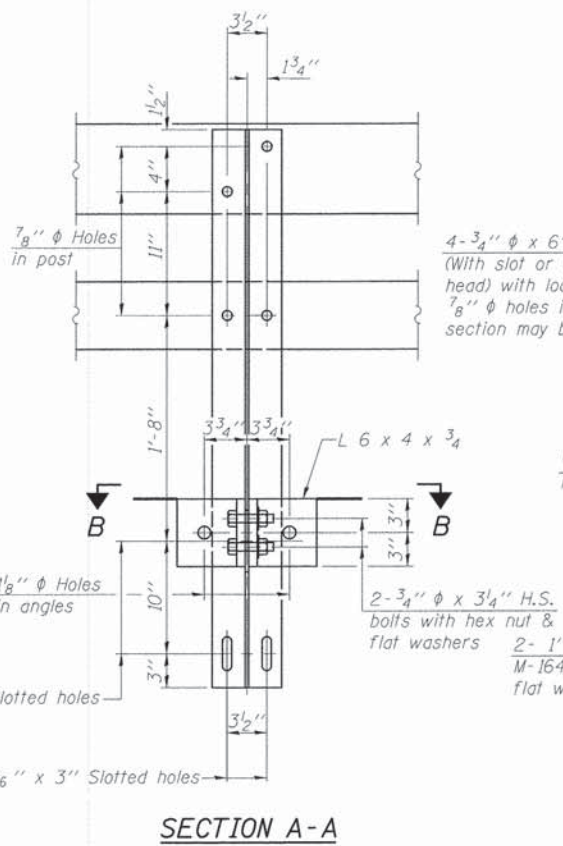
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DESIGNED - SMM	REVISED -
DRAWN - SMM	REVISED -
CHECKED - RDC	REVISED -
DATE - 04/2014	REVISED -

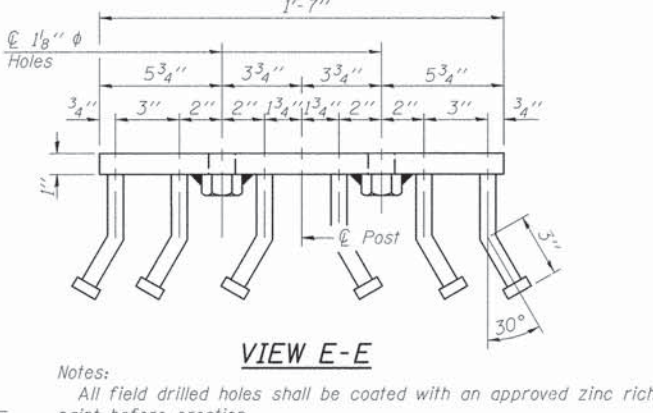
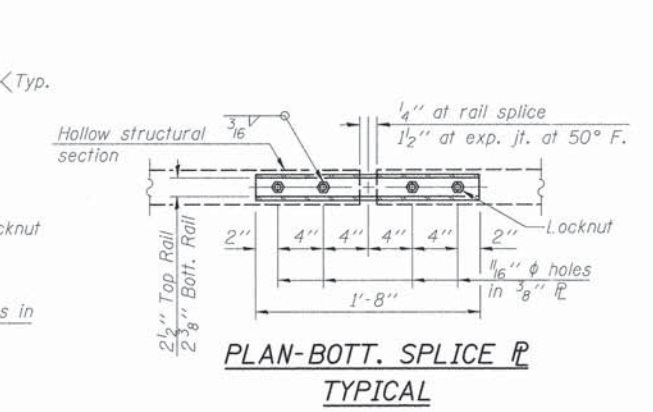
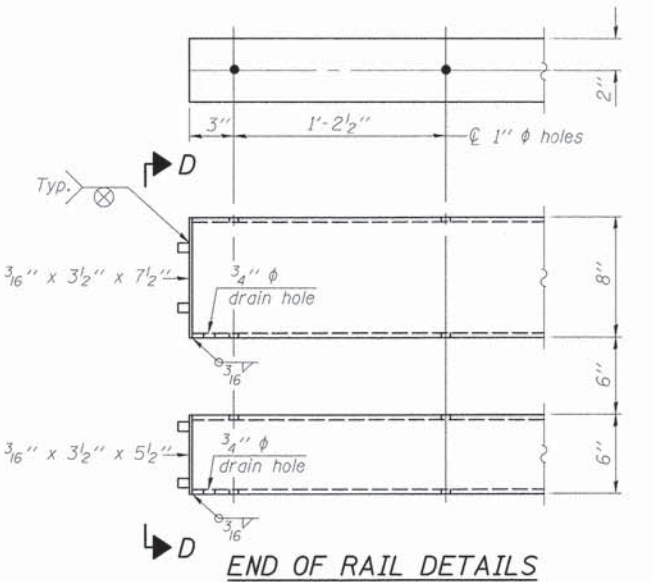
STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

SUPERSTRUCTURE
STRUCTURE NO. 058-3398
SHEET NO. 3 OF 9 SHEETS

F.A.S. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
546	12-00245-00-BR	MACON	29	16
CH 21 OVER SOUTH FORK CREEK			CONTRACT NO. 95739	
ILLINOIS FED. AID PROJECT				



* Threaded areas shall be plugged or blocked off during casting of slab. Galvanized after fabrication.



Notes:
 All field drilled holes shall be coated with an approved zinc rich paint before erection.
 For multi-span bridges, sufficient 1/4 inch x 6 inch x 1-2 inch galvanized steel shims shall be provided to align rail between adjacent spans. Cost included with Steel Railing, Type SM.
 All steel rail members shall be galvanized according to Article 509.05 of the Standard Specifications.
 *** The studs of the anchor devices shall be placed below the top reinforcement bars and the outermost longitudinal reinforcement bar shall be placed directly above the studs of the rail post anchor device.

BILL OF MATERIAL

Item	Unit	Quantity
Steel Railing, Type SM	Foot	142

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PLOT DATE = 4/5/2014

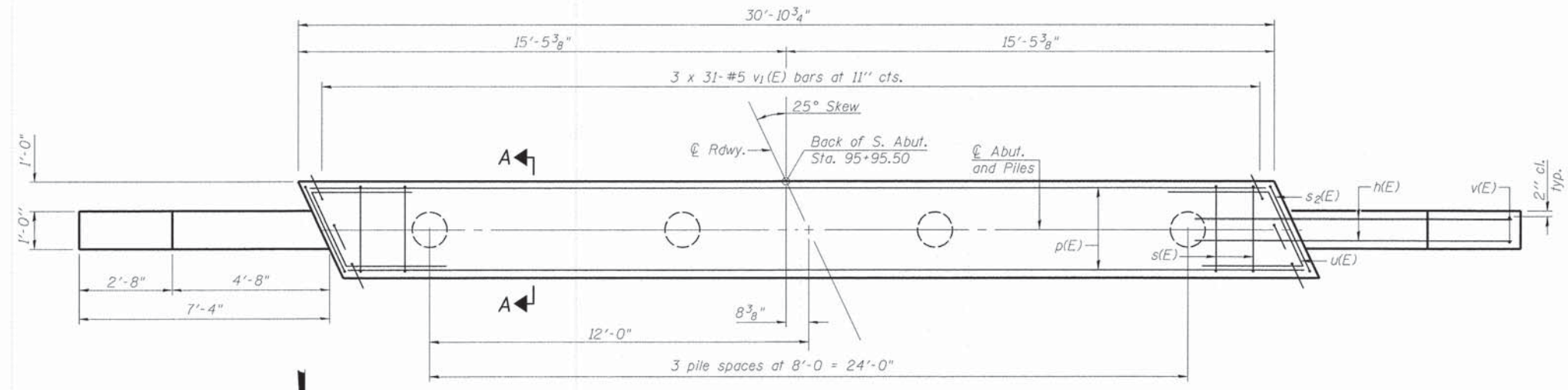
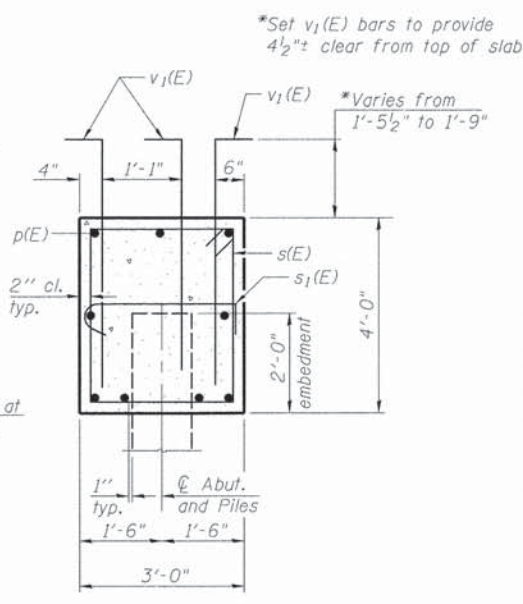
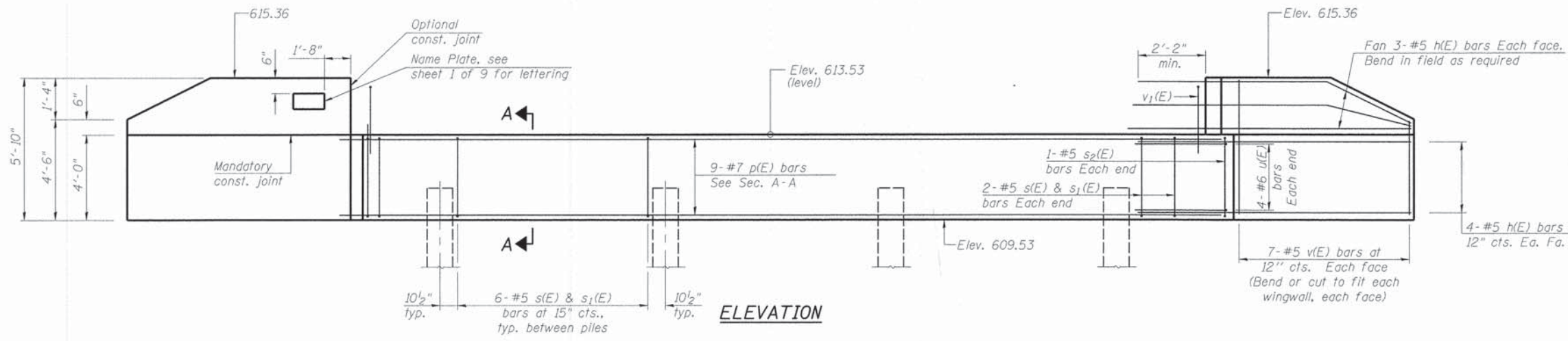
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DRAWN - SMM	REVISED -
CHECKED - RDC	REVISED -
DATE - 04/2014	REVISED -

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

STEEL RAILING, TYPE SM (SPECIAL)
STRUCTURE NO. 058-3398
SHEET NO. 4 OF 9 SHEETS

F.A.S. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
546	12-00245-00-BR	MACON	29	17

CH 21 OVER SOUTH FORK CREEK CONTRACT NO. 95739
ILLINOIS FED. AID PROJECT

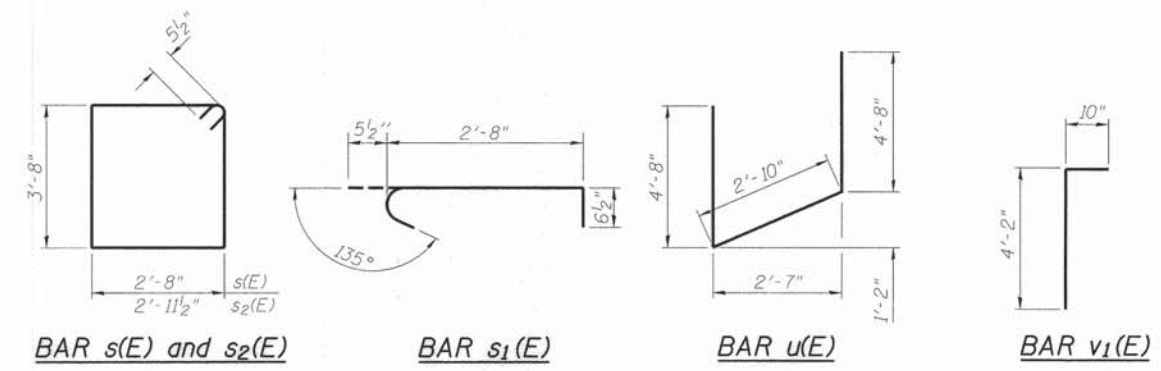


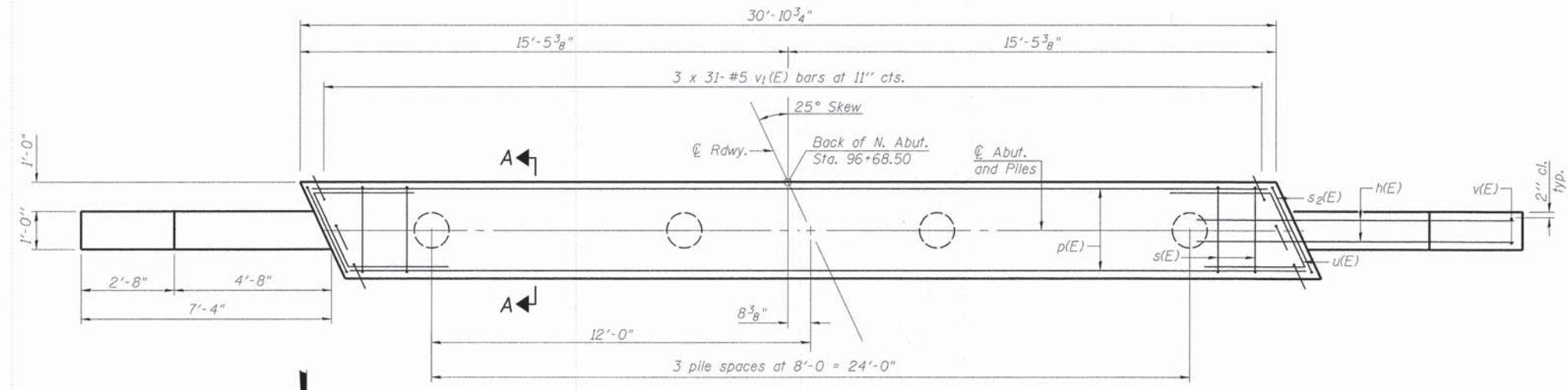
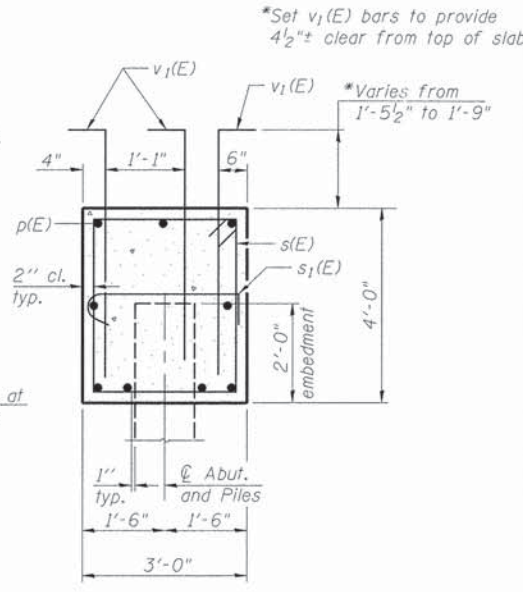
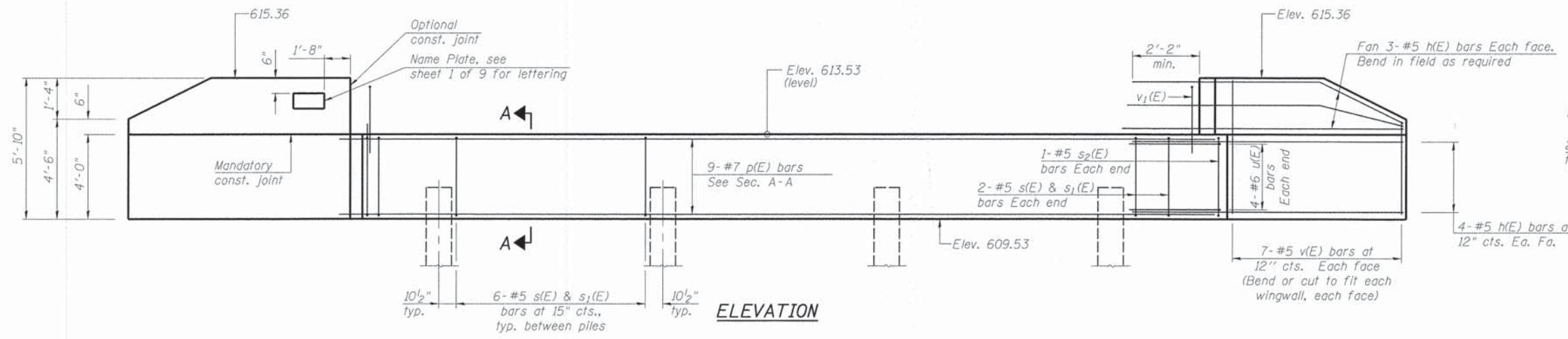
BILL OF MATERIAL

Bar	No.	Size	Length	Shape
h(E)	28	#5	9'-8"	—
p(E)	9	#7	30'-6"	—
s(E)	22	#5	13'-7"	□
s1(E)	22	#5	3'-8"	└
s2(E)	2	#5	14'-2"	□
u(E)	8	#6	12'-2"	└
v(E)	28	#5	5'-6"	—
v1(E)	93	#5	5'-0"	└
Structure Excavation		Cu. Yd.	74	
Concrete Structures		Cu. Yd.	16.7	
Reinforcement Bars, Epoxy Coated		Pound	2,060	
Furnishing Metal Shell Piles, 12" x 0.25"		Foot	81	
Driving Piles		Foot	81	
Test Pile Metal Shells		Each	1	
Granular Backfill For Structures		Cu. Yd.	36	

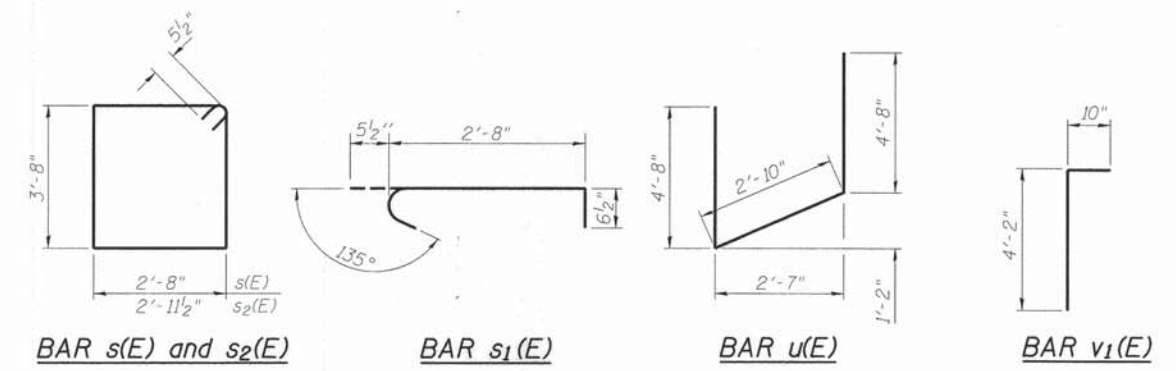
PILE DATA

Type: Metal Shell 12" x 0.25"
 Nominal Required Bearing: 260 kips
 Factored Resistance Available: 143 kips
 Est. Length: 27'
 No. Production Piles: 3
 No. Test Piles: 1
 For details of piles see sheet 8 of 9.





PILE DATA
Type: Metal Shell 12" x 0.25"
Nominal Required Bearing: 260 kips
Factored Resistance Available: 143 kips
Est. Length: 30'
No. Production Piles: 4
For details of piles see sheet 8 of 9.



BILL OF MATERIAL

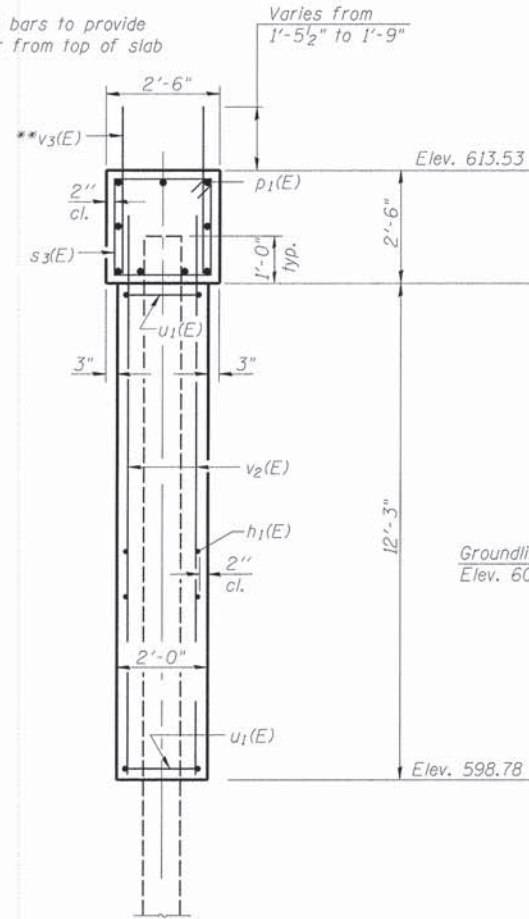
Bar	No.	Size	Length	Shape
h(E)	28	#5	9'-8"	—
p(E)	9	#7	30'-6"	—
s(E)	22	#5	13'-7"	□
s ₁ (E)	22	#5	3'-8"	└
s ₂ (E)	2	#5	14'-2"	□
u(E)	8	#6	12'-2"	└
v(E)	28	#5	5'-6"	—
v ₁ (E)	93	#5	5'-0"	└
Structure Excavation		Cu. Yd.	74	
Concrete Structures		Cu. Yd.	16.7	
Reinforcement Bars, Epoxy Coated		Pound	2,060	
Furnishing Metal Shell Piles, 12" x 0.25"		Foot	120	
Driving Piles		Foot	120	
Granular Backfill For Structures		Cu. Yd.	36	

PILE DATA

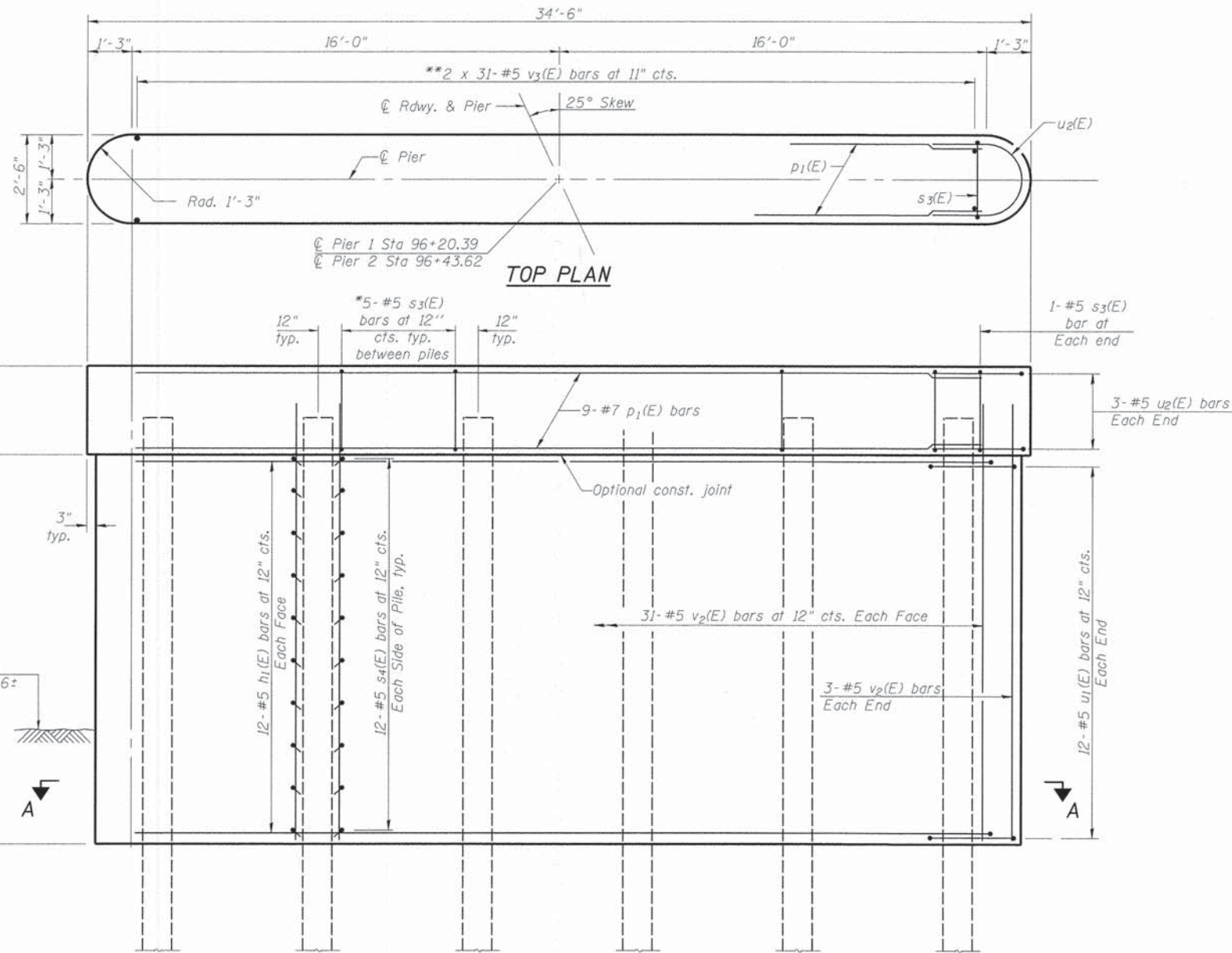
Type: Metal Shell 12" x 0.25"
 Nominal Required Bearing: 335 kips
 Factored Resistance Available: 162 kips
 Est. Length: 36'
 No. Production Piles: 11
 No. Test Piles: 1 (at North Pier)

Note:
 For details of piles, see sheet 8 of 9.

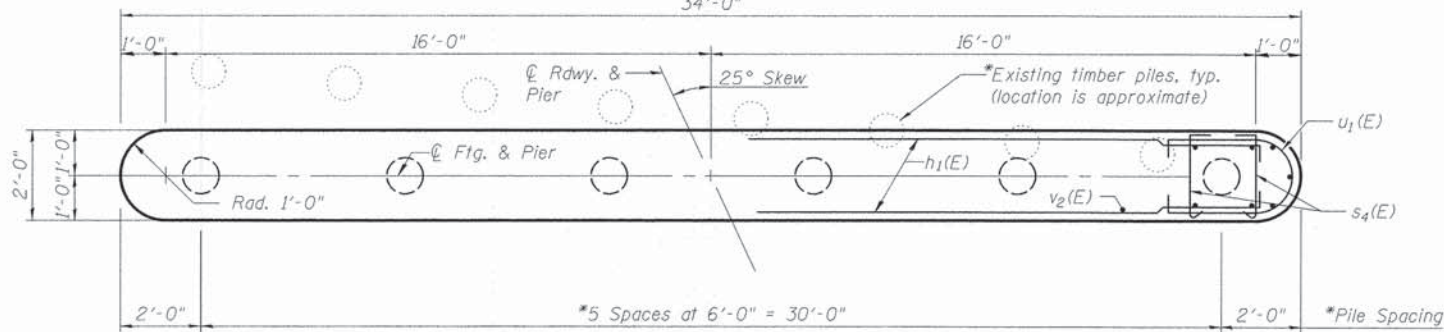
**Set v₃(E) bars to provide
 4 1/2" clear from top of slab



END VIEW



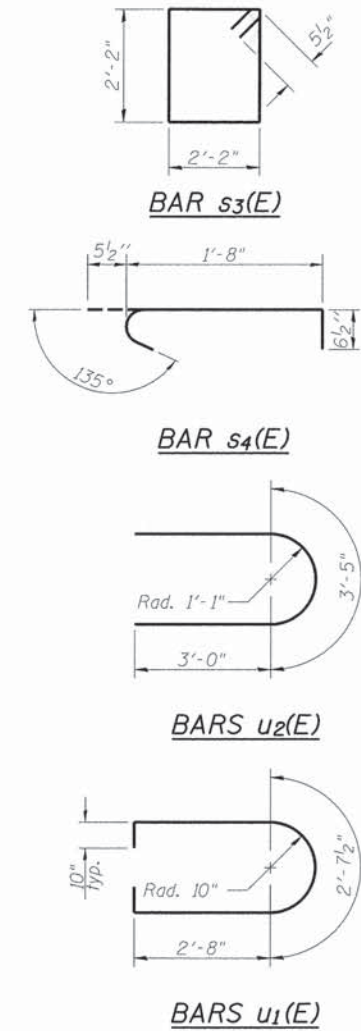
ELEVATION
 (Looking North)



SECTION A-A

*To avoid the existing timber piles, the location of the proposed piles may be shifted 1'-0" in either direction along the line of piles from the position indicated on the plans. The proposed piles may be driven adjacent to the existing timber piles but a 1'-0" minimum clear distance is preferred. Contact the Engineer of Record if a shift larger than 1'-0" is needed or the spacing between piles would exceed 8'-0" on-center.

The number of s₃(E) bars between piles shall be adjusted for different pile spacings.



BILL OF MATERIAL
TWO PIERS

Bar	No.	Size	Length	Shape
h ₁ (E)	48	#5	32'-0"	—
p ₁ (E)	18	#7	32'-0"	—
s ₃ (E)	54	#5	9'-7"	□
s ₄ (E)	288	#5	2'-8"	U
u ₁ (E)	48	#5	9'-8"	U
u ₂ (E)	12	#5	9'-5"	U
v ₂ (E)	136	#5	13'-9"	—
v ₃ (E)	124	#5	3'-10"	—
Cofferdam Excavation		Cu. Yd.	90	
Concrete Structures		Cu. Yd.	72	
Reinforcement Bars, Epoxy Coated		Pound	7,170	
Furnishing Metal Shell Piles, 12" x 0.25"		Foot	396	
Driving Piles		Foot	396	
Test Pile Metal Shells		Each	1	
Cofferdam (Type 1) (Location 1) - S. Pier		Each	1	
Cofferdam (Type 1) (Location 2) - N. Pier		Each	1	

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 PLOT DATE = 4/5/2014

DESIGNED - SMM	REVISED -
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CHECKED - RDC	REVISED -
DATE - 04/2014	REVISED -

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

PIERS
STRUCTURE NO. 058-3398

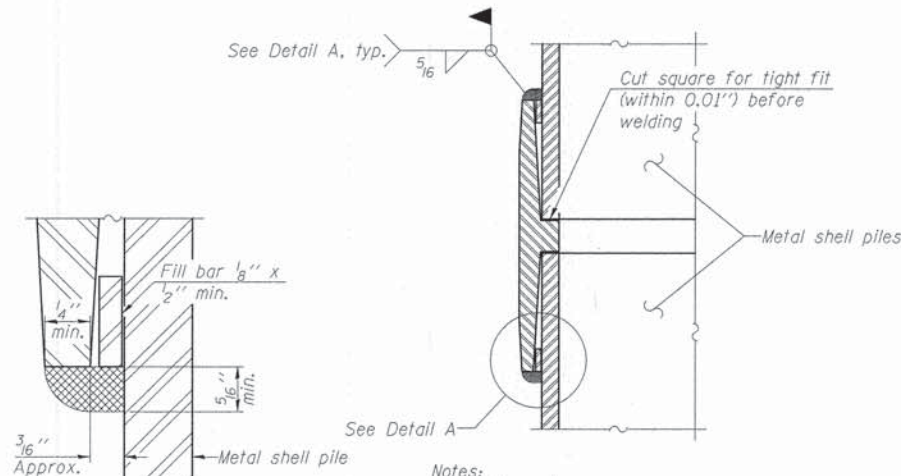
SHEET NO. 7 OF 9 SHEETS

F.A.S. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
546	12-00245-00-BR	MACON	29	20
CH 21 OVER SOUTH FORK CREEK			CONTRACT NO. 95739	
ILLINOIS FED. AID PROJECT				



METAL SHELL PILE TABLE

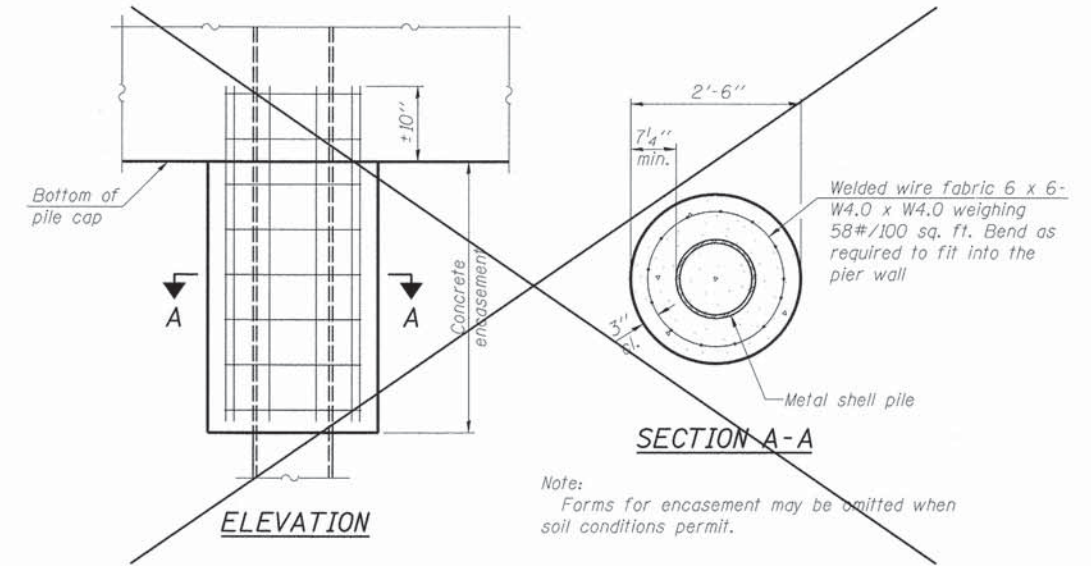
Designation and outside diameter	Wall thickness t	Weight per foot (Lbs./ft.)	Inside volume (yd. ³ /ft.)
PP12	0.179"	22.60	0.0274
PP12	0.250"	31.37	0.0267
PP14	0.250"	36.71	0.0368
PP14	0.312"	45.61	0.0361



DETAIL A

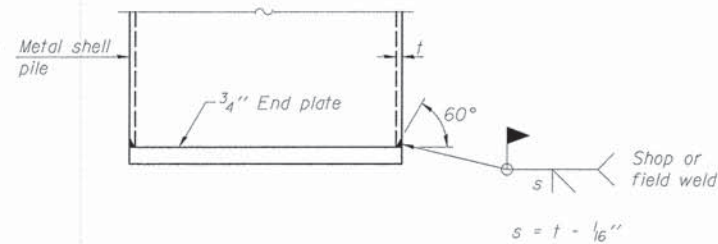
WELDED COMMERCIAL SPLICE

Notes:
 The 1/8" x 1/2" min. fill bar may be constructed of 2 bars with a 1/8" max. gap between them.
 Pile segments shall be driven to solid contact with splicer before welding.

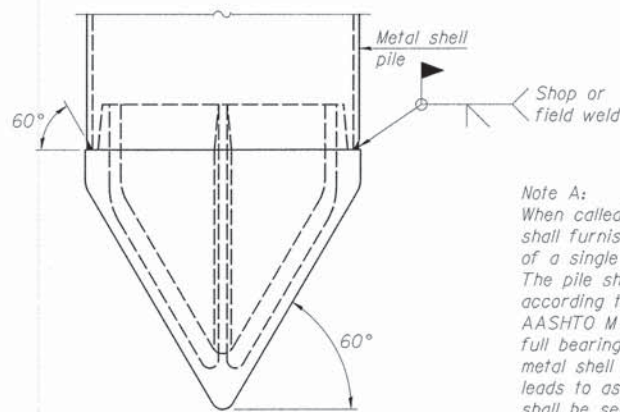


CONCRETE ENCASEMENT AT PIERS

Note:
 Forms for encasement may be omitted when soil conditions permit.

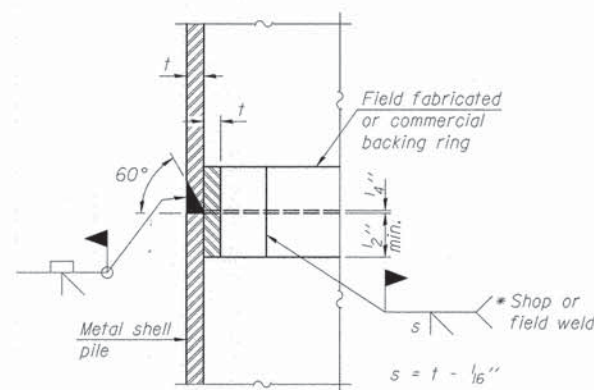


END PLATE ATTACHMENT



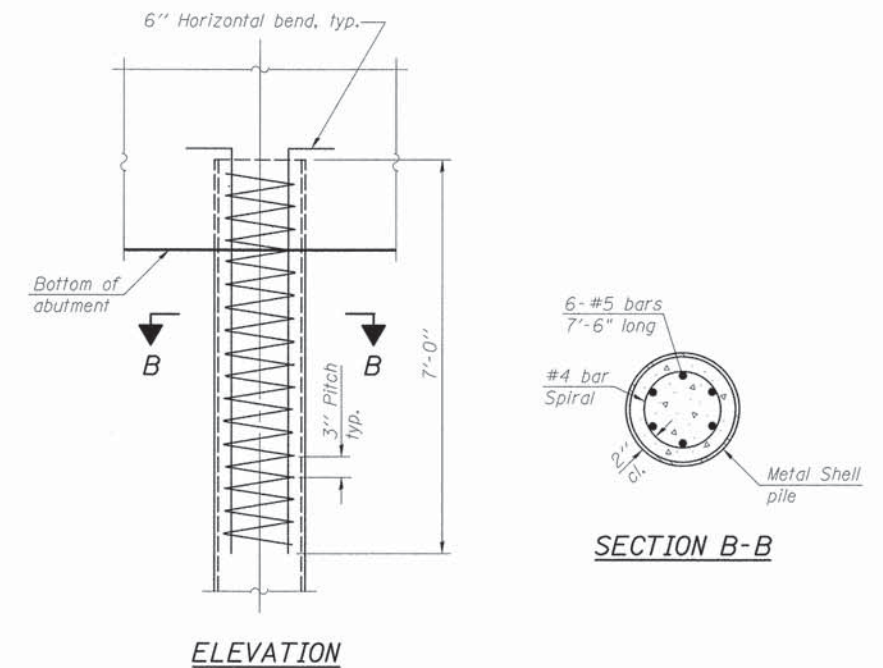
METAL SHELL PILE SHOE ATTACHMENT
 (See Note A)

Note A:
 When called for on the plans, the Contractor shall furnish metal shell pile shoes consisting of a single piece conical pile point as shown. The pile shoes shall be cast in one piece steel according to either ASTM A 148 Grade 90-60 or AASHTO M 103 Grade 65-35 and shall provide full bearing over the full circumference of the metal shell pile. The pile shoe shall have tapered leads to assure proper alignment and fitting and shall be secured to the pile with a circumferential weld.



COMPLETE PENETRATION WELD SPLICE

* Field fabricated backing ring may be made from pile shell by removing segment to allow reducing circumference and vertically rejoin with partial joint penetration weld.



METAL SHELL REINFORCEMENT AT ABUTMENTS

Note:
 The metal shell piles shall be according to ASTM A 252 Grade 3.

F-MS

1-27-12

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 PLOT DATE = 4/9/2014

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DRAWN - SMM	REVISED -
CHECKED - RDC	REVISED -
DATE - 04/2014	REVISED -

**STATE OF ILLINOIS
 DEPARTMENT OF TRANSPORTATION**

**METAL SHELL PILE DETAILS
 STRUCTURE NO. 058-3398**

SHEET NO. 8 OF 9 SHEETS

F.A.S. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
546	12-00245-00-BR	MACON	29	21
CH 21 OVER SOUTH FORK CREEK			CONTRACT NO. 95739	
ILLINOIS FED. AID PROJECT				

BRIDGE FOUNDATION SOIL BORING LOG

Route: CH 21 (FAS 546) Kenny Road
 Section: 403B MFT
 County: Macon
 Structure No. 058-3006 over South Fork Creek
 Station: 96+10.50
 Offset: 5.0' Lt. (West) of C.L.

MET Midwest Engineering and Testing, Inc.

Boring: B-1
 Page: Page 1 of 2
 Date of Boring: May 11, 2013
 Drilled By: Zach Wilcoxon
 Checked By: Robert Hahn
 MET Project No: 33038

Soil Description	Depth (ft)	SPT (blows)	MC (%)	Q _u (tsf)
12" Asphalt	0 - 5	-	-	-
Brown fine SAND (SP)	5 - 10	2.5P	12	3.0P
Brown silty CLAY (CL) with sand and gravel, Possible Fill	10 - 13	-	-	-
Dark grey silty CLAY (CL)	13 - 18	2.0P	18	7.65
Dark grey silty CLAY (CL)	18 - 19	2.5P	19	7.65
Dark grey silty CLAY (CL) with sand	19 - 17	1.2B	17	4.5P
Dark grey silty CLAY (CL) with sand	17 - 15	1.2B	17	4.5P
Grey silty CLAY (CL) with sand and small gravel, Till	15 - 11	4.5P	11	4.5P
Grey silty CLAY (CL) with sand and small gravel, Till	11 - 8	5.4B	13	4.5P
Grey silty CLAY (CL) with sand and small gravel, Till	8 - 7	9.6B	11	4.5P
Grey silty CLAY (CL) with sand and small gravel, Till	7 - 5	8.0B	11	4.5P

BRIDGE FOUNDATION SOIL BORING LOG

Route: CH 21 (FAS 546) Kenny Road
 Section: 403B MFT
 County: Macon
 Structure No. 058-3006 over South Fork Creek
 Station: 96+10.50
 Offset: 5.0' Lt. (West) of C.L.

MET Midwest Engineering and Testing, Inc.

Boring: B-1
 Page: Page 2 of 2
 Date of Boring: May 11, 2013
 Drilled By: Zach Wilcoxon
 Checked By: Robert Hahn
 MET Project No: 33038

Soil Description	Depth (ft)	SPT (blows)	MC (%)	Q _u (tsf)
12" Asphalt	0 - 7	-	-	-
Dark brown and brown mixed silty CLAY (CL), Possible Fill	7 - 13	3.4B	13	3.4B
Dark brown silty CLAY (CL-CH)	13 - 27	1.3B	27	1.3B
Dark brown silty CLAY (CL-CH)	27 - 34	0.5P	34	0.5P
Brown and grey silty CLAY (CL)	34 - 18	2.6B	18	2.6B
Brown silty CLAY (CL) with sand	18 - 15	6.4B	15	6.4B
Dark grey silty CLAY (CL) with sand	15 - 14	4.4B	14	4.4B
Grey silty CLAY (CL) with sand and small gravel, Till	14 - 12	4.2B	14	4.2B
Grey silty CLAY (CL) with sand and small gravel, Till	12 - 12	4.6B	12	4.6B
Grey silty CLAY (CL) with sand and small gravel, Till	12 - 11	4.5P	11	4.5P

BRIDGE FOUNDATION SOIL BORING LOG

Route: CH 21 (FAS 546) Kenny Road
 Section: 403B MFT
 County: Macon
 Structure No. 058-3006 over South Fork Creek
 Station: 96+46
 Offset: 6.9' Rt. (East) of C.L.

MET Midwest Engineering and Testing, Inc.

Boring: B-2
 Page: Page 1 of 2
 Date of Boring: May 11, 2013
 Drilled By: Zach Wilcoxon
 Checked By: Robert Hahn
 MET Project No: 33038

Soil Description	Depth (ft)	SPT (blows)	MC (%)	Q _u (tsf)
12" Asphalt	0 - 7	-	-	-
Dark brown and brown mixed silty CLAY (CL), Possible Fill	7 - 19	3.4B	13	3.4B
Dark brown silty CLAY (CL-CH)	19 - 27	1.3B	27	1.3B
Dark brown silty CLAY (CL-CH)	27 - 34	0.5P	34	0.5P
Brown and grey silty CLAY (CL)	34 - 18	2.6B	18	2.6B
Brown silty CLAY (CL) with sand	18 - 15	6.4B	15	6.4B
Dark grey silty CLAY (CL) with sand	15 - 14	4.4B	14	4.4B
Grey silty CLAY (CL) with sand and small gravel, Till	14 - 12	4.2B	14	4.2B
Grey silty CLAY (CL) with sand and small gravel, Till	12 - 12	4.6B	12	4.6B
Grey silty CLAY (CL) with sand and small gravel, Till	12 - 11	4.5P	11	4.5P

BRIDGE FOUNDATION SOIL BORING LOG

Route: CH 21 (FAS 546) Kenny Road
 Section: 403B MFT
 County: Macon
 Structure No. 058-3006 over South Fork Creek
 Station: 96+46
 Offset: 6.9' Rt. (East) of C.L.

MET Midwest Engineering and Testing, Inc.

Boring: B-2
 Page: Page 2 of 2
 Date of Boring: May 11, 2013
 Drilled By: Zach Wilcoxon
 Checked By: Robert Hahn
 MET Project No: 33038

Soil Description	Depth (ft)	SPT (blows)	MC (%)	Q _u (tsf)
12" Asphalt	0 - 7	-	-	-
Grey sandy CLAY (SC)	7 - 14	2.6B	14	2.6B
Grey silty CLAY (CL) with sand and small gravel, Till	14 - 18	5.0P	18	5.0P

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 PLOT DATE = 4/5/2014

DESIGNED - SMM	REVISED -
DRAWN - SMM	REVISED -
CHECKED - RDC	REVISED -
DATE - 04/2014	REVISED -

STATE OF ILLINOIS
 DEPARTMENT OF TRANSPORTATION

BORING LOGS
 STRUCTURE NO. 058-3398

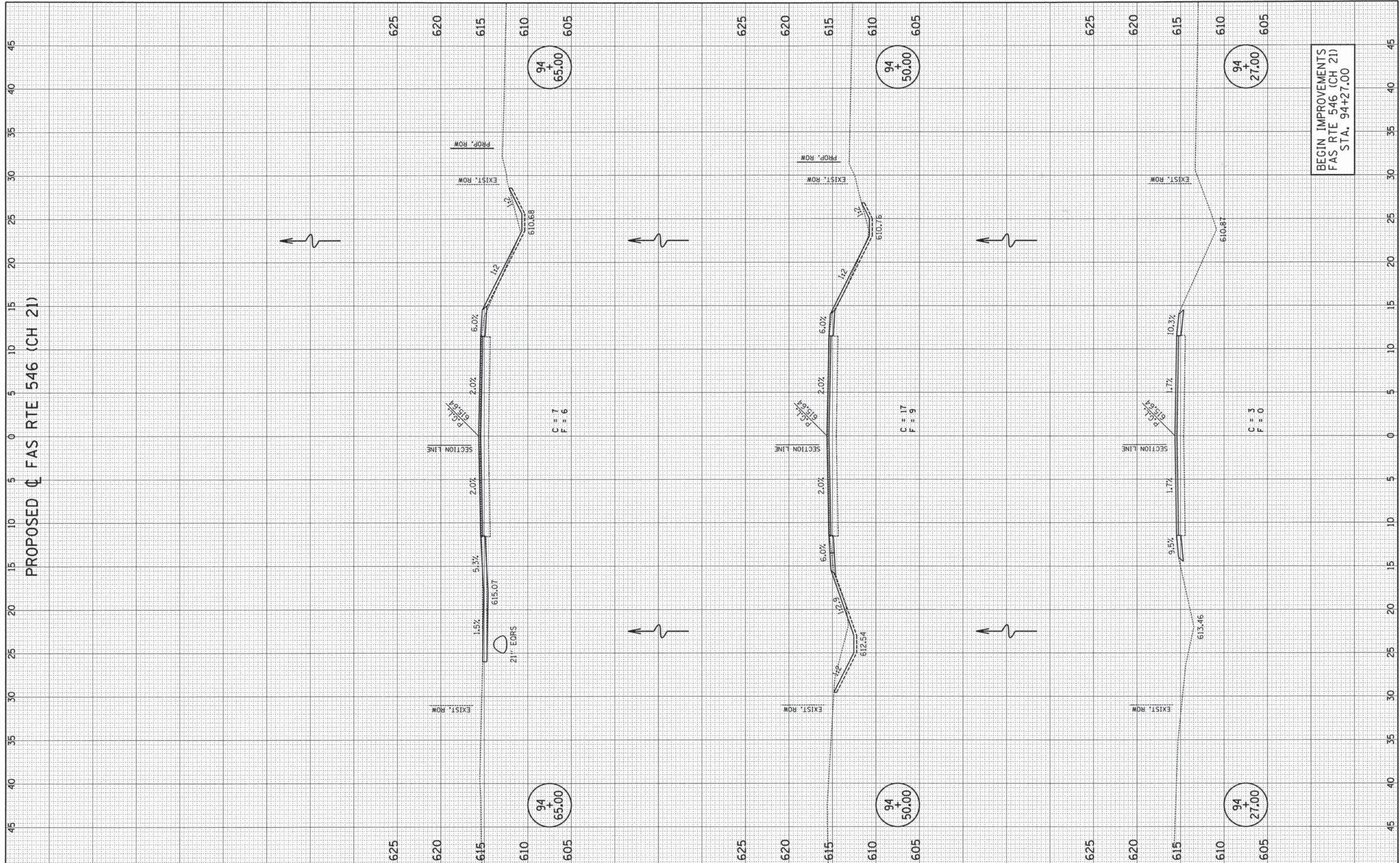
SHEET NO. 9 OF 9 SHEETS

F.A.S. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
546	12-00245-00-BR	MACON	29	22
CH 21 OVER SOUTH FORK CREEK			CONTRACT NO. 95739	
ILLINOIS FED. AID PROJECT				

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

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

PROPOSED ϕ FAS RTE 546 (CH 21)



BEGIN IMPROVEMENTS
FAS RTE 546 (CH 21)
STA. 94+27.00

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PLOT DATE = 4/30/2014

DESIGNED - JAJ	REVISED - 04/2014
DRAWN - JAJ	REVISED -
CHECKED - SMW	REVISED -
DATE - 04/2014	REVISED -

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

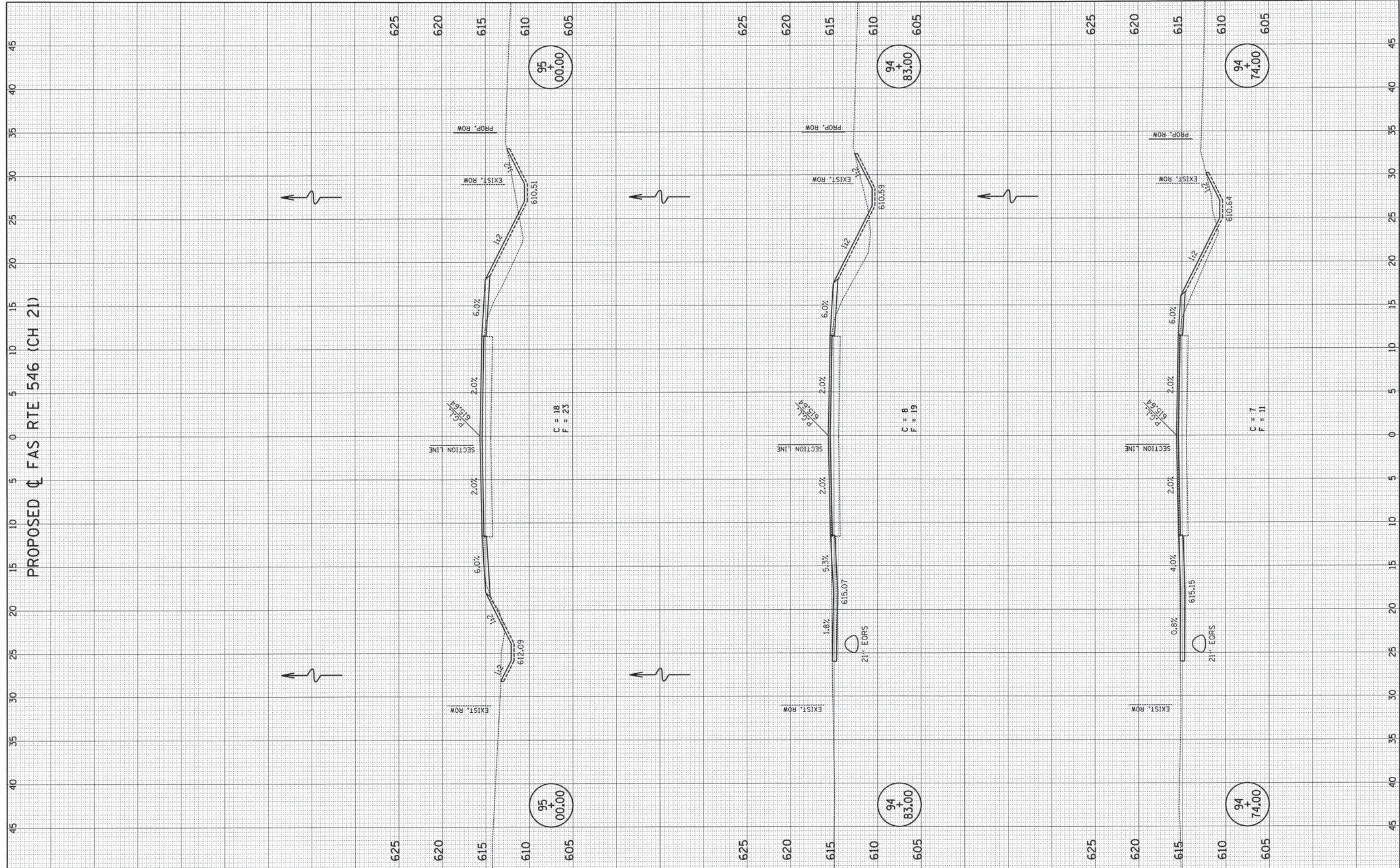
CROSS SECTIONS

SCALE : 1"=5' SHEET NO. 23 OF 29 SHEETS STA. 94+27.00 TO STA. 94+65.00

F.A.S. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
546	12-00245-00-BR	MACON	29	23
CH 21 OVER SOUTH FORK CREEK		CONTRACT NO. 95739		
FED. ROAD DIST. NO.		ILLINOIS FED. AID PROJECT		

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

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



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DESIGNED - JAJ	REVISED - 04/2014
DRAWN - JAJ	REVISED -
CHECKED - SMW	REVISED -
DATE - 04/2014	REVISED -

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

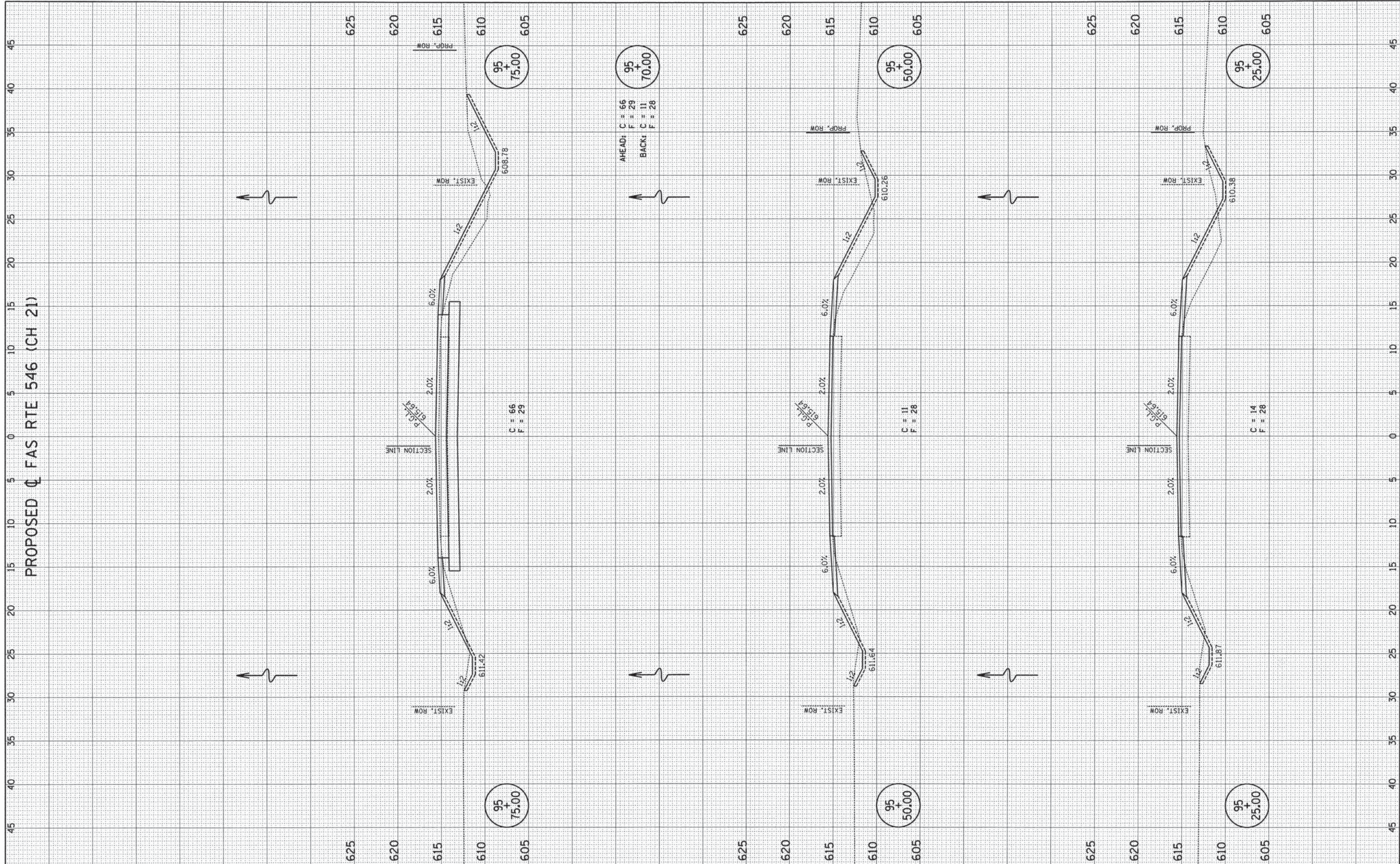
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F.A.S. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
546	12-00245-00-BR	MACON	29	24
CH 21 OVER SOUTH FORK CREEK		CONTRACT NO. 95739		
FED. ROAD DIST. NO.		ILLINOIS FED. AID PROJECT		

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

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

PROPOSED ϕ FAS RTE 546 (CH 21)



AHEAD: C = .66
F = .29
BACK: C = .11
F = .28

C = .66
F = .29

C = .11
F = .28

C = .14
F = .28

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PLOT DATE = 4/30/2014

DESIGNED - JAJ	REVISED - 04/2014
DRAWN - JAJ	REVISED -
CHECKED - SMW	REVISED -
DATE - 04/2014	REVISED -

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

CROSS SECTIONS

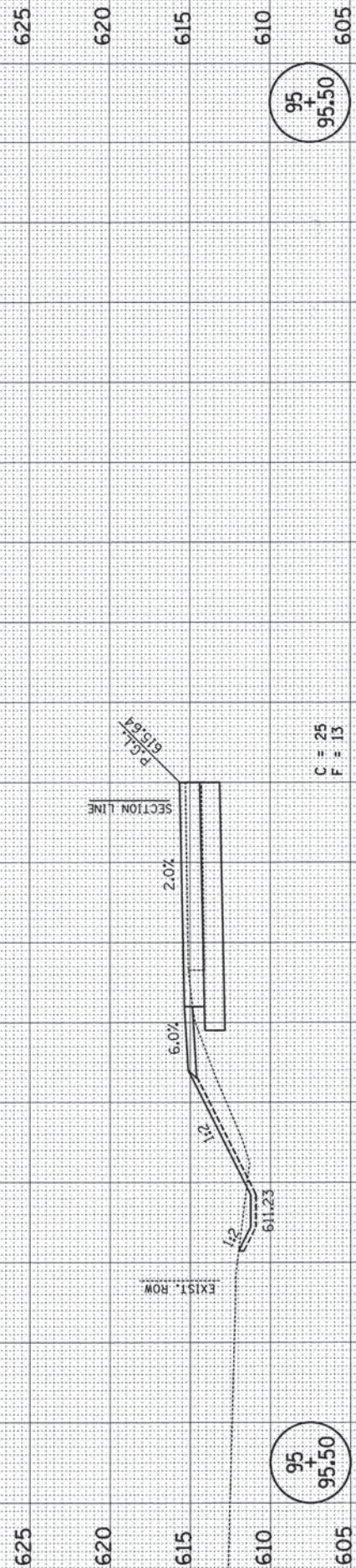
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F.A.S. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
546	12-00245-00-BR	MACON	29	25
CH 21 OVER SOUTH FORK CREEK		CONTRACT NO. 95739		
FED. ROAD DIST. NO.		ILLINOIS FED. AID PROJECT		

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

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

PROPOSED ϕ FAS RTE 546 (CH 21)

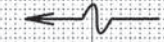


C = 25
F = 13

96 + 03.13
BACK: C = 3
F = 12

95 + 95.50

EARTHWORK OMISSION FROM STA. 95+95.50 TO STA. 96+68.50 FOR BRIDGE REPLACEMENT. SEE BRIDGE PLANS FOR CHANNEL EXCAVATION AND STRUCTURE EXCAVATION.



C = 76
F = 36

95 + 87.00

FILE NAME = P:\M0320060_Macon County - CH 21 Str No 058-3006 Rep\Plans\sheets\23_CH21_BB_xsREV1.dgn
PLOT DATE = 4/30/2014

DESIGNED - JAJ	REVISED - 04/2014
DRAWN - JAJ	REVISED -
CHECKED - SMW	REVISED -
DATE - 04/2014	REVISED -

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

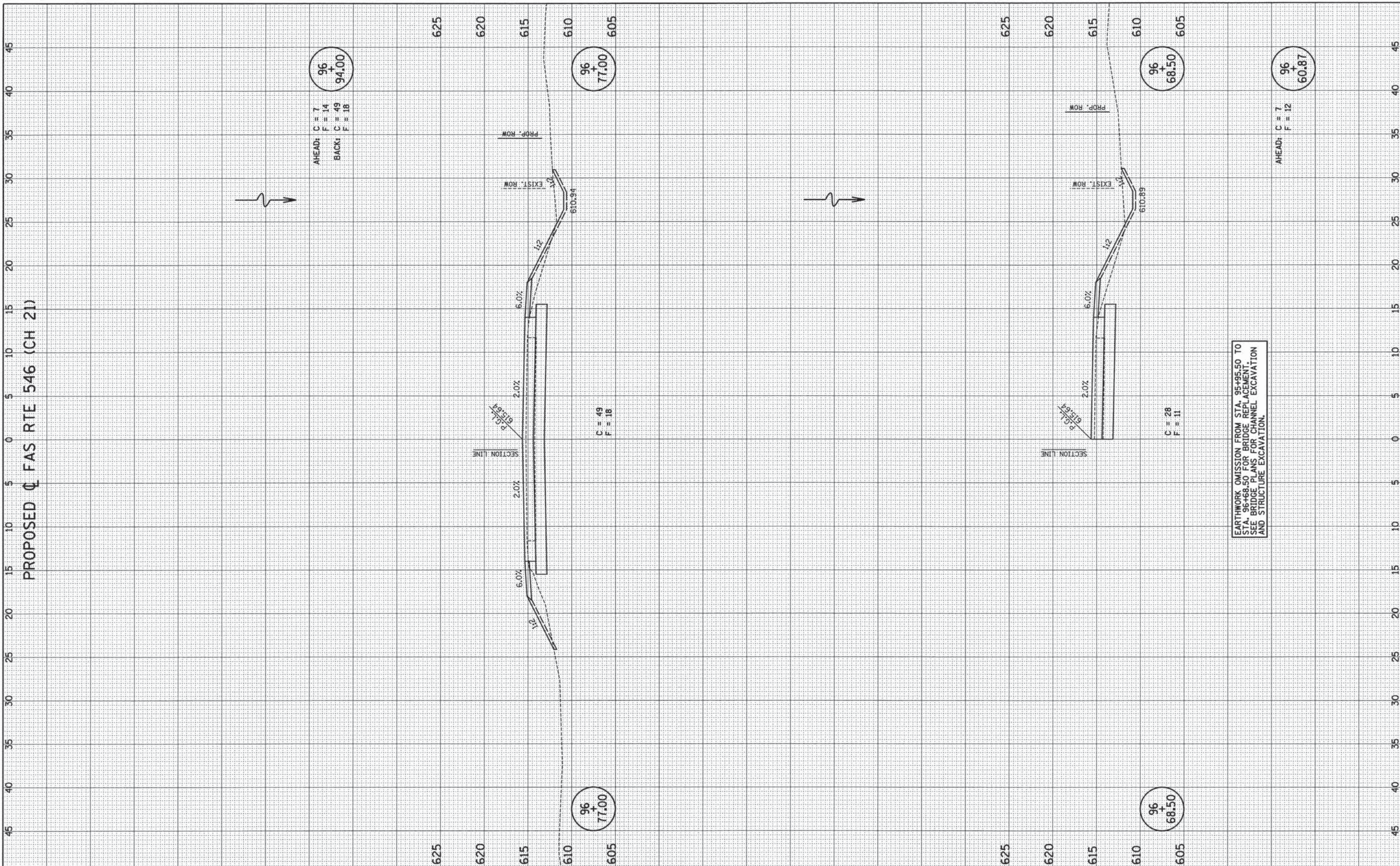
CROSS SECTIONS

SCALE : 1"=5' SHEET NO. 26 OF 29 SHEETS STA. 95+87.00 TO STA. 95+95.50

F.A.S. RTE. 546	SECTION 12-00245-00-BR	COUNTY MACON	TOTAL SHEETS 29	SHEET NO. 26
CH 21 OVER SOUTH FORK CREEK		CONTRACT NO. 95739		
FED. ROAD DIST. NO.		ILLINOIS FED. AID PROJECT		

FINAL SURVEY	DATE
SURVEYED	BY
NOTE BOOK	
AREAS CHECKED	
NO.	

ORIGINAL SURVEY	DATE
SURVEYED	BY
NOTE BOOK	
AREAS CHECKED	
NO.	



PROPOSED \perp FAS RTE 546 (CH 21)

AHEAD: C = 7
F = 14
BACK: C = 49
F = 18

96 + 77.00

C = 49
F = 18

96 + 77.00

96 + 68.50

C = 28
F = 11

96 + 68.50

96 + 60.87

AHEAD: C = 7
F = 12

EARTHWORK OMISSION FROM STA. 96+95.50 TO STA. 96+98.50 FOR BRIDGE REPLACEMENT. SEE BRIDGE PLANS FOR CHANNEL EXCAVATION AND STRUCTURE EXCAVATION.

FILE NAME = p:\M0320060_Macon County - CH 21 Str No 058-3006 Rap\Plans\sheets\23_CH21_BB_xs.dgn
PLOT DATE = 4/5/2014

DESIGNED - JAJ	REVISED -
DRAWN - JAJ	REVISED -
CHECKED - SMW	REVISED -
DATE - 04/2014	REVISED -

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

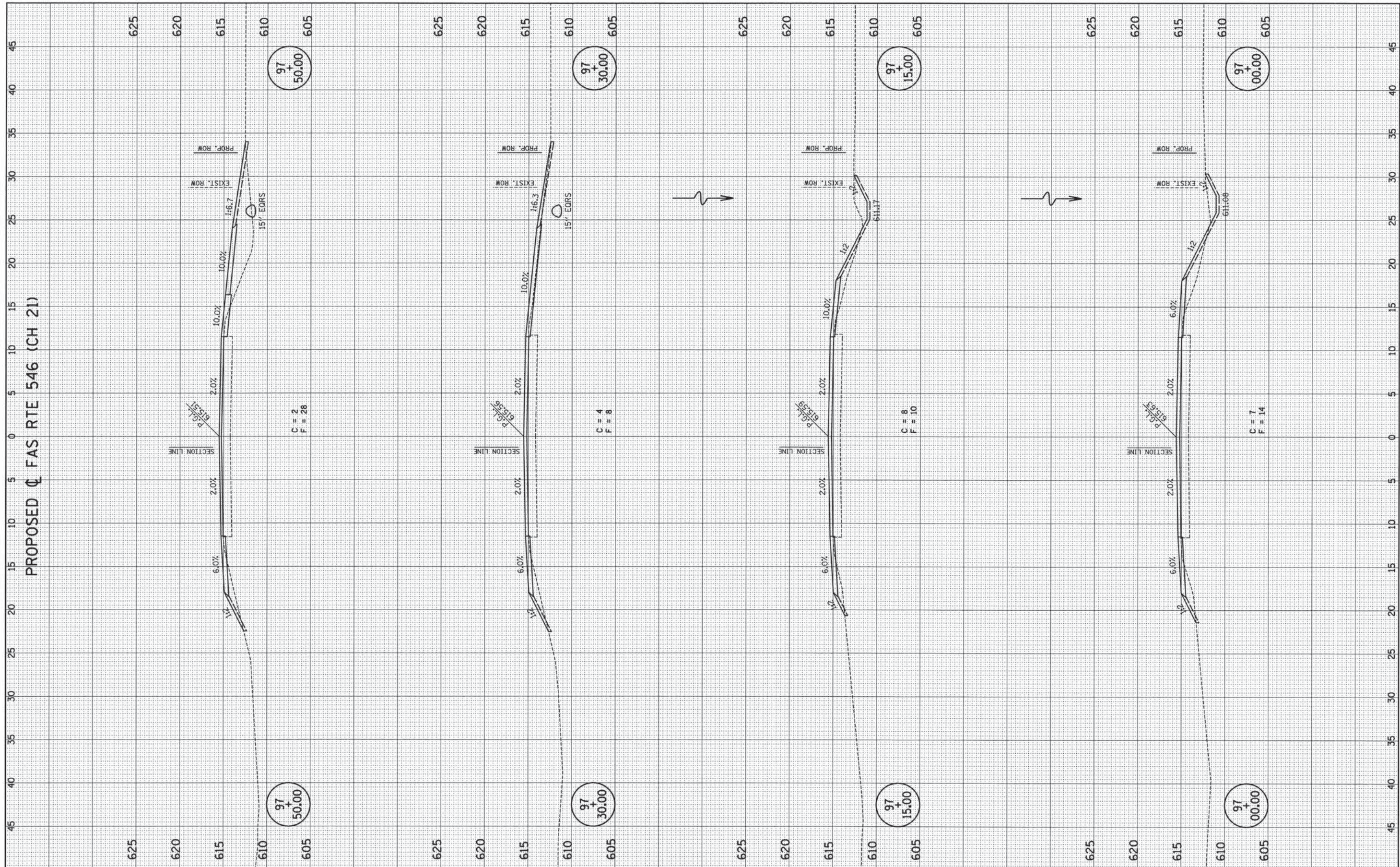
CROSS SECTIONS

SCALE: 1"=5' SHEET NO. 27 OF 29 SHEETS STA. 96+68.50 TO STA. 96+77.00

F.A.S. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
546	12-00245-00-BR	MACON	29	27
CH 21 OVER SOUTH FORK CREEK		CONTRACT NO. 95739		
FED. ROAD DIST. NO.		ILLINOIS FED. AID PROJECT		

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

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



PROPOSED FAS RTE 546 (CH 21)

FILE NAME = p:\M0320060_Macon County - CH 21 Str No 058-3006 Rep\Plans\sheets\23_CH21_BB_xs.dgn
 PLOT DATE = 4/5/2014

DESIGNED - JAJ	REVISED -
DRAWN - JAJ	REVISED -
CHECKED - SMW	REVISED -
DATE - 04/2014	REVISED -

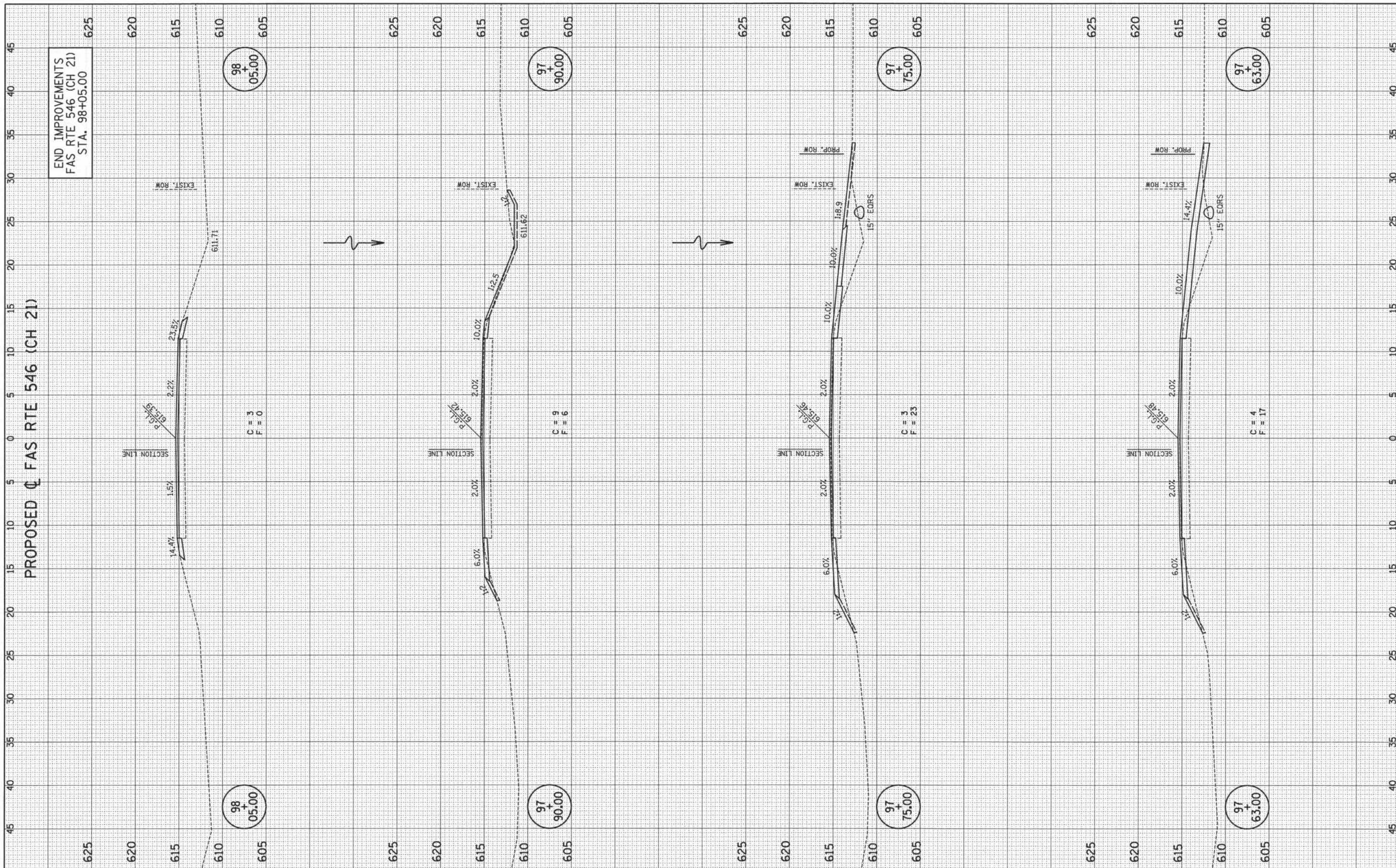
STATE OF ILLINOIS
 DEPARTMENT OF TRANSPORTATION

CROSS SECTIONS
 SCALE : 1"=5'
 SHEET NO. 28 OF 29 SHEETS
 STA. 97+00.00 TO STA. 97+50.00

F.A.S. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
546	12-00245-00-BR	MACON	29	28
CH 21 OVER SOUTH FORK CREEK		CONTRACT NO. 95739		
FED. ROAD DIST. NO.		ILLINOIS FED. AID PROJECT		

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

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



END IMPROVEMENTS
FAS RTE 546 (CH 21)
STA. 98+05.00

PROPOSED \square FAS RTE 546 (CH 21)

FILE NAME = p:\M0320060_Macon County - CH 21 Str No 058-3006 Rep\Plans\Sheets\23_CH21_BB_xs.dgn
PLOT DATE = 4/9/2014

DESIGNED - JAJ	REVISED -
DRAWN - JAJ	REVISED -
CHECKED - SMW	REVISED -
DATE - 04/2014	REVISED -

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

CROSS SECTIONS

SCALE : 1"=5'
SHEET NO. 29 OF 29 SHEETS
STA. 97+63.00 TO STA. 98+05.00

F.A.S. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
546	12-00245-00-BR	MACON	29	29
CH 21 OVER SOUTH FORK CREEK		CONTRACT NO. 95739		
FED. ROAD DIST. NO.		ILLINOIS FED. AID PROJECT		