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

 PLAN
 1 INCH
 =
 20 FEET

 PROFILE HORIZ,
 1 INCH
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 20 FEET

 PROFILE VERT,
 1 INCH
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 5 FEET

 CROSS SECTIONS HORIZ,
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 CROSS SECTIONS VERT,
 1 INCH
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MACON COUNTY, ILLINOIS SECTION NO. 12-00250-00-BR PROJECT NO. 435X(662) JOB NO. C-97-067-18 STP BRIDGE PROGRAM

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



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# **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 APRIL 1, 2016.
- 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 SHALL 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 DESTROVED BY HIS OR HER OPERATIONS.
- 8. 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.
- 9. 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 TECHNICAL SPECIFICATIONS. NO ADDITIONAL COMPENSATION WILL BE ALLOWED FOR PAVEMENT REMOVAL ITEMS DUE TO VARIATIONS IN PAVEMENT TYPES, THICKNESSES OR AMOUNT OF REINFORCEMENT. THE ADJUSTMENT OF OUANITIES AS SPECIFIED IN ARTICLE 440.07 OF THE STANDARD SPECIFICATIONS AND TAPLY, REMOVAL OF OTHER TYPES OF PAVEMENT COMPOSITION SUCH AS GGREGATE 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.
- 10. 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.
- 11. 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 PROTIES ARE APPROXIMATE AND REPRESENT LOCATIONS FIDOR TO ANY UTILITY RELOCATIONS REGULRED 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 DOSITIONS 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 COURTRACTING OR CONSTRUCTION, SEE THE "STATUS OF UTILITIES" SHEET WITHIN THE TECHNICAL SPECIFICATIONS FOR ADDITIONAL INFORMATION REGARDING KNOWN UTILITY RELOCATIONS OR ADJUSTMENTS REQUIRED FOR THE PROPOSED CONSTRUCTION. THE CONTRACTOR'S ATTENTION IS DIRECTED TO ARTICLES 105.07, 107.37, 107.38, 107.39, AND 107.40 OF THE STANDARD SPECIFICATIONS.
- 12. THE CONTRACTOR SHALL BE RESPONSIBLE FOR PROTECTING UTILITY PROPERTY FROM CONSTRUCTION OPERATIONS AS OUTLINED IN ARTICLE 107.39 OF THE STANDARD SPECIFICATIONS. UTILITY OWNERS ARE LISTED ON THE "STATUS OF UTILITIES" SHEET WITHIN THE TECHNICAL SPECIFICATIONS. THE JULIE NUMBER IS 800-892-0123. A MINIMUM OF 48 HOURS ADVANCE NOTICE IS REQUIRED.
- 13. 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.
- 14. THE CONTRACTOR SHALL PROVIDE AND INSTALL TWO WEIGHTED SAND BAGS ON EACH TYPE II BARRICADE USED (ONE WEIGHTED SAND BAG ACROSS EACH BOTTOM RALL).
- 15. THE CONTRACTOR SHALL PROVIDE AND INSTALL A MINIMUM OF FOUR WEIGHTED SAND BAGS ON EACH TYPE III BARRICADE USED.
- 16. 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.
- 17. 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.
- 18. 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	ACQUIRING AGENCY
IEPA NATIONAL POLLUTANT DISCHARGE ELIMINATION SYSTEM PERMIT NO. ILRIO	MACON COUNTY
USACOE REGIONAL PERMIT NO. 38 - FILL MATERIAL PLACED IN WATERS OF THE U.S. FOR ROAD CROSSINGS IN THE STATE OF ILLINOIS	MACON COUNTY
IEPA SECTION 401 WATER QUALITY CERTIFICATION (ISSUED FOR USACOE REGIONAL PERMIT NO. 38)	MACON COUNTY
IDNR OWR STATEWIDE PERMIT NO. 2 - BRIDGE AND CULVERT CROSSINGS OF STREAMS IN RURAL AREAS	MACON COUNTY

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

FILE NAME =	DESIGNED - JAJ	REVISED -						F.A.S. RTE.	SECTION	COUNTY	TOTAL SHEET SHEETS NO.
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PLOT DATE =	CHECKED - MJT	REVISED -	DEPARTMENT OF TRANSPORTATION					CH 21 OVE	R SOUTH FORK LAKE FORK CREEK	CONTRACT	NO. 95836
3/6/2018	DATE - 03/2018	REVISED -		SCALE : NONE	SHEET NO. 2 OF 13 SHEETS	STA.	TO STA.	FED. ROAD	DIST. NO. ILLINOIS FED.	AID PROJECT	

anoio munwai		EXISTING	PROPO
ANDARD NO.	DESCRIPTION	W	WATER LINE
280001-07	TEMPORARY EROSION CONTROL SYSTEMS		IRRIGATION WATER LINE
		G	GAS LINE
515001-03	NAME PLATE FOR BRIDGES	OHE	OVERHEAD ELECTRIC
542401-03	METAL FLARED END SECTION FOR PIPE CULVERTS		UNDERGROUND ELECTRIC
601101-02	CONCRETE HEADWALL FOR PIPE UNDERDRAINS	OHT	OVERHEAD TELEPHONE
530301-08	SHOULDER WIDENING FOR TYPE 1 (SPECIAL) GUARDRAIL TERMINALS	UGT	UNDERGROUND TELEPHONE
531032-09	TRAFFIC BARRIER TERMINAL, TYPE 6A	UGT(FO)	UNDERGROUND TELEPHONE (FIBER OPTIC)
01301 04		CATV	CABLE TELEVISION
701301-04	LANE CLUSSIRE 22, 2W, SHORT TIME OPERATIONS TRAFFIC CONTROL DEVICES	СОМ	COMMUNICATION LINE
25001-01	OBJECT AND TERMINAL MARKERS	F0	FIBER OPTIC   INF
80001-05	TYPICAL PAVEMENT MARKINGS	STM	STEAM I INE
782006	GUARDRAIL AND BARRIER WALL REFLECTOR MOUNTING DETAILS	FM)	FORCE MAIN
0 0 0 0	TYPICAL APPLICATION OF TRAFFIC CONTROL DEVICES FOR CONSTRUCTION ON DURAL LOCAL USCIWAYS	\	SANITADY SEWED
DLR 21-9	IFFICAL AFFLICATION OF TRAFFIC CONTROL DEVICES FOR CONSTRUCTION ON RURAL LOCAL HIGHWATS		STORM SEWER
			STORM SEWER
			STORM SEWER WATER MAIN UDALITY
			INLET OR CATCH BASIN
		<u> </u>	MANHULE
		٩M	UTILITY WARNING SIGN
		©W ©C	SERVICE BOX SHUTOFF
		×	VALVE
		Ŵ	WATER MANHOLE
		ДM	WATER METER
		Q	FIRE HYDRANT
		ŬС	GAS METER
		GR	GAS REGULATOR
		ſ	GAS VENT PIPE
		E	ELECTRIC MANHOLE
		ΠE	ELECTRIC METER
		ΦE	ELECTRIC PEDESTAL
		ΠE	ELECTRIC JUNCTION BOX
		-D-	POWER POLE
		ф>	POWER POLE W/LIGHT
		-Â-	POWER POLE W/TRANSFORMER
		$\boxtimes$	ROADWAY LIGHT CONTROLLER
		~~~	ROADWAY STREET LIGHT
		¤	ORNAMENTAL STREET LIGHT
		0)	GUY POLE
		<u>o</u> —	GUY WIRE
		-0-	TELEPHONE POLE
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PLOT DATE =	CHECKED - MJT	REVISED -	DEPARTMENT OF TRANSPORTATION			CH 21	OVER SOUTH FORK LA	AKE FORK CREEK CONT	RACT NO	. 95836
3/6/2018	DATE - 03/2018	REVISED -		SCALE : NONE	SHEET NO. 3 OF 13 SHEETS STA. TO STA.	FED. R	ROAD DIST. NO.	ILLINOIS FED. AID PROJE	.ct	

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TIMBER BRIDGE PILES

GUARDRAIL

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# EGEND

EXISTING		PROPOSED
$\triangle$	MONUMENT	
•	IRON PIN/PIPE FOUND	
	RIGHT-OF-WAY MARKER	
\$	SOIL BORING	
•	PAVEMENT CORE	
	TRAFFIC SIGNAL CONTROL BOX	
4⊸⊳	TRAFFIC SIGNAL POST	
° ₹ ₹	TRAFFIC SIGNAL MAST ARM	
0	PEDESTRIAN PUSH BUTTON POST	
	TRAFFIC SIGNAL HANDHOLE	
0	TRAFFIC SIGNAL JUNCTION BOX	
30 <del>8 <u>2</u> 8</del>	RR CROSSING GATE	
ROX	RR FLASHING SIGNAL	
•ו	RR CROSSBUCK	
="=	STREET SIGN	
Þ	TRAFFIC SIGN	
٩	DELINEATOR	
8-0-8	PARKING LOT LIGHT	
×	YARD LIGHT	
4	MAILBOX	
Θ	PARKING METER	
ß	IRRIGATION CONTROL BOX	
<b>«</b>	IRRIGATION HEAD	
Ø	TANK FILLER CAP	
8	INSPECTION WELL	
0 <sup>0</sup> 0	CLEANOUT	
oDS	DOWNSPOUT	
0	BOLLARD	
0	FENCE POST	
o—	GATE POST	
$\sim$	FLAG POLE	
Ø	FLOOD LIGHT	
風	TREE STUMP	
$\bigcirc$	BUSH	
Ĩ,	CONIFEROUS TREE	
$\bigcirc$	DECIDUOUS TREE	

# **SUMMARY OF QUANTITIES**

CODE NO.	PAY ITEM	UNIT	TOTAL QUANTIT
20200100	EARTH EXCAVATION	CU YD	296
20201200	REMOVAL AND DISPOSAL OF UNSUITABLE MATERIAL	CU YD	20
20300100	CHANNEL EXCAVATION	CU YD	1225
21000300	GRANULAR EMBANKMENT, SPECIAL	TON	40
21001000	GEOTECHNICAL FABRIC FOR GROUND STABILIZATION	SO YD	60
25000200	SEEDING, CLASS 2	ACRE	0.62
25000400	NITROGEN FERTILIZER NUTRIENT	POUND	56
25000500	PHOSPHORUS FERTILIZER NUTRIENT	POUND	56
25000600	POTASSIUM FERTILIZER NUTRIENT	POUND	56
25100115	MULCH, METHOD 2	ACRE	0.62
28000250	TEMPORARY EROSION CONTROL SEEDING	POUND	62
28000305	TEMPORARY DITCH CHECKS	FOOT	175
28000400	PERIMETER EROSION BARRIER	FOOT	840
28000500	INLET AND PIPE PROTECTION	EACH	1
28100109	STONE RIPRAP, CLASS A5	SO YD	1060
28200200	FILTER FABRIC	SO YD	1060
35101350	AGGREGATE BASE COURSE, TYPE A 15"	SO YD	214
40200800	AGGREGATE SURFACE COURSE, TYPE B	TON	95
40600290	BITUMINOUS MATERIALS (TACK COAT)	POUND	396
40600627	LEVELING BINDER (MACHINE METHOD), IL-9,5FG, N50	TON	71
40600982	HOT-MIX ASPHALT SURFACE REMOVAL - BUTT JOINT	SQ YD	314
40603310	HOT-MIX ASPHALT SURFACE COURSE, MIX "C", N50	TON	66
44000100	PAVEMENT REMOVAL	SQ YD	303
44000200	DRIVEWAY PAVEMENT REMOVAL	SO YD	9
48100500	AGGREGATE SHOULDERS, TYPE A 6"	SO YD	310
50100100	REMOVAL OF EXISTING STRUCTURES	EACH	1
50105220	PIPE CULVERT REMOVAL	FOOT	50
50200100	STRUCTURE EXCAVATION	CU YD	166
50200300	COFFERDAM EXCAVATION	CU YD	124
50201121	COFFERDAM (TYPE 2) (LOCATION-1)	EACH	1
50201122	COFFERDAM (TYPE 2) (LOCATION-2)	EACH	1
50300225	CONCRETE STRUCTURES	CU YD	142.5
50300255	CONCRETE SUPERSTRUCTURE	CU YD	152.3
50300260	BRIDGE DECK GROOVING	SQ YD	457

		QUANTITY
D5 REINFORCEMENT BARS, EPOXY COATED	POUND	57190
50 STEEL RAILING, TYPE SM	FOOT	188
FURNISHING METAL SHELL PILES 12" X 0.250"	FOOT	699
DE DRIVING PILES	FOOT	699
0 TEST PILE METAL SHELLS	EACH	2
0 PILE SHOES	EACH	14
0 NAME PLATES	EACH	1
26 PIPE CULVERTS, CLASS C, TYPE 1 21"	FOOT	70
21 STEEL FLARED END SECTIONS 21"	EACH	2
0 GEOCOMPOSITE WALL DRAIN	SO YD	56
TRAFFIC BARRIER TERMINAL, TYPE 6A	EACH	4
7 TRAFFIC BARRIER TERMINAL, TYPE 1 (SPECIAL) TANGENT	EACH	4
O GUARDRAIL REMOVAL	FOOT	148
0 MOBILIZATION	L SUM	1
0 TERMINAL MARKER - DIRECT APPLIED	EACH	4
0 PAINT PAVEMENT MARKING - LINE 4"	FOOT	872
55 GUARDRAIL REFLECTORS, TYPE A	EACH	8
52 STRUCTURES TO BE ADJUSTED	EACH	1
0 TRENCH BACKFILL, SPECIAL	CU YD	14
00 BRIDGE APPROACH PAVEMENT (SPECIAL)	SQ YD	201
0 GRANULAR BACKFILL FOR STRUCTURES	CU YD	94
6 TRAFFIC CONTROL AND PROTECTION, (SPECIAL)	L SUM	1
04 PIPE UNDERDRAINS FOR STRUCTURES 4"	FOOT	130
PECTAL PROVISIONS A COECHAITY THEMS		
I I I I I I I I I I I I I I I I I I I	FAS	
	25       REINFORCEMENT BARS, EPOXY COATED         260       STEEL RAILING, TYPE SM         27       FURNISHING METAL SHELL PILES 12" X 0.250"         26       DRIVING PILES         27       DIVING PILES         28       DIEST PILE METAL SHELLS         30       TEST PILE METAL SHELLS         30       NAME PLATES         32       DIECULVERTS, CLASS C, TYPE 1 21"         21       STEEL FLARED END SECTIONS 21"         30       GEOCOMPOSITE WALL DRAIN         31       TRAFFIC BARRIER TERMINAL, TYPE 6A         37       TRAFFIC BARRIER TERMINAL, TYPE 1 (SPECIAL) TANGENT         30       GUARDRAIL REMOVAL         31       TRAFFIC BARRIER TERMINAL, TYPE 1 (SPECIAL) TANGENT         32       GUARDRAIL REMOVAL         33       TRAFFIC BARRIER TERMINAL, TYPE 1 (SPECIAL) TANGENT         34       DIVENTIAL MARKER - DIRECT APPLIED         35       GUARDRAIL REFLECTORS, TYPE A         36       STRUCTURES TO BE ADJUSTED         36       TRAFFIC CONTROL AND PROTECTION, (SPECIAL)         36       TRAFFIC CONTROL AND PROTECTION, (SPECIAL)         37       PIPE UNDERDRAINS FOR STRUCTURES 4"         36       TRAFFIC CONTROL AND PROTECTION, (SPECIAL)         37       PIP	55         REINFORCEMENT BARS, EPOXY COATED         POUND           56         STEEL RAILING, TYPE SM         FOOT           57         FURNISHING METAL SHELL PILES 12" X 0.250"         FOOT           57         FURNISHING METAL SHELL PILES 12" X 0.250"         FOOT           50         DILE SHOES         FOOT           61         DILE SHOES         EACH           62         DILE SHOES         EACH           63         DILE SHOES         EACH           64         DILE SHOES         EACH           65         DILE SHOES         EACH           66         ONAME PLATES         EACH           67         STEEL FLARED END SECTIONS 21"         EACH           68         OFECOLUVERTS, CLASS C, TYPE 1 21"         FOOT           71         TRAFFIC BARRIER TERMINAL, TYPE 6A         EACH           72         TRAFFIC BARRIER TERMINAL, TYPE 6A         EACH           73         TRAFFIC BARRIER TERMINAL, TYPE 6A         EACH           74         TRAFFIC BARRIER TERMINAL, TYPE A         EACH           75         GUARDRAIL REFUECT APPLIED         EACH           76         TREMUNAL MARKER - DIRECT APPLIED         EACH           76         TRAFFIC CONTROL AND PROTECTION, SPECIAL) </td

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PLOT DATE =	CHECKED - MJT	REVISED -	DEPARTMENT OF TRANSPORTATION		
4/10/2018	DATE - 03/2018	REVISED -		SCALE : NONE	SHEET NO. 4 OF 13 SHEETS STA.

ITITIES		F.A.S. RTE.	SEC	TION		COUNTY	TOTA SHEE	L SHEET
		546	12-00250-00-BR			MACON	31	4
		CH 21 0	VER SOUTH FORK	LAKE FORK	CREEK	CONTRACT	NO.	95836
ΓΑ.	TO STA.	FED. RO	AD DIST. NO.	ILLINOIS	FED.	ALD PROJECT		

# SCHEDULE OF QUANTITIES

		EARTH	WORK SUMMAR	Y		
LOCATION	20200100	20300100	50200100	50200300	EMBANKMENT	•ESTIMATED
	EARTH	CHANNEL	STRUCTURE	COFFERDAM	(CU YD)	EARTH
	EXCAVATION	EXCAVATION	EXCAVATION	EXCAVATION		WASTE
	(CU YD)	(CU YD)	(CU YD)	(CU YD)		(CU YD)
100+99 TO 105+68	296	1225	166	124	406	1303
TOTAL	296	1225	166	124	406	1303

•EARTH WASTE = EARTH EXCAVATION + CHANNEL EXCAVATION + STRUCTURE EXCAVATION + COFFERDAM EXCAVATION - (EMBANKMENT × 1.25 SHRINKAGE FACTOR)

<u>NOTES</u>

LOCATION

LOCATION 

AS DIRECTED

- NULES 1. THE INDICATED EARTHWORK VOLUMES ARE ESTIMATES BASED ON THE "AVERAGE END AREA" METHOD OF CALCULATION. EARTHWORK VOLUMES WILL VARY WITH ACTUAL SOLL 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. SEE TYPICAL SECTION NOTE 4 ON SHEET 6 FOR ADDITIONAL INFORMATION.
- 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.

RITUMINOUS	MATERIALS	(T
	40600290	

LOCATION 101+70.0 T0 102+84.0 LT & RT (LEVELING BI 104+42.0 T0 105+56.0 LT & RT (LEVELING BI 101+70.0 TO 102+84.0 LT & RT (SURFACE) 104+42.0 TO 105+56.0 LT & RT (SURFACE)

	(MACI	L HINE	4( EVEL MET	0600 .ING HOD),	627 BINDE , IL-9	ER 9.5FG,
LOCATION						
101+70.0 104+42.0	TO 102 TO 10	2+84.0 5+56.0	LT 8	kRT SkRT		
						тоти
NOTE: PREPARAT 406.05(a)	ION OF	THE ESTA	HMA	BASE	IN ACC	ORDANCE

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00											

40603310	
HOT-MIX ASPHALT SU	RFA
COURSE, MIX "C",	N50

01+70.0	ΤO	102+84.0	LT	&	RT
104+42.0	T0	105+56.0	LT	&	RT

48100500 AGGREGATE SHOULDERS,	ТΥ
LOCATION	
101+70.0 T0 103+03.3   T	

101+70.0	10	102+02*2	LI.
101+70.0	ΤO	103+30.1	RT
103+95.9	T0	105+56.0	LT
104+22.7	ΤO	105+56.0	RT

20201200 REMOVAL AND DISPOSAL OF UNSUITABLE MATERIAL		25000400, 25000500, 25000600 FERTILIZER NUTRIENTS (NITROGEN, PHOSPHORUS, POTASSIUM	A)
N	CU YD	LOCATION	POUND
CTED BY THE ENGINEER	20	100+99.0 TO 105+68.0 LT & RT	56
TOTAL	20	TOTAL	56
21000300 GRANULAR EMBANKMENT, SPECIAL		25100115 MULCH, METHOD 2	
N	TON	LOCATION	ACRE
CTED BY THE ENGINEER	40	100+99.0 TO 105+68.0 LT & RT	0.62
TOTAL	40	TOTAL	0.62
21001000 GEOTECHNICAL FABRIC FOR		35101350 AGGREGATE BASE COURSE, TYPE A 1	5"
SKOUND STABILIZATION	50 VD		SU YD
		102+84.0 10 103+16.3 LT & RT	107
UIED DI INE ENGINEER	60	101-103.1 10 104742.0 ET & KT	101

LOCATION

105+32.0 LT

мJ	DINECTED	 THE	LINDINELIN		40
				TOTAL	40
			21001000		

GEOTECHNICAL FABR GROUND STABILIZA	IC FOR	
LOCATION		SQ YD
AS DIRECTED BY THE ENGINEER		60
	TOTAL	60

25000200 SEEDING, CLAS	52	
LOCATION		ACRE
100+99.0 TO 105+68.0 LT & RT		0.62
	TOTAL	0.62

FILE NAME =	DESIGNED - JAJ	REVISED -						F.A.S. RTF.	SECTION	COUNTY	TOTAL	SHEET
p:\m0320070_macon county - ch21 str no 058-3005 rep\plans\sheets\05schedule.dgn	DRAWN - DLM	REVISED -	STATE OF ILLINOIS	SCHEDULE OF OUANTITIES				MACON	31	5		
PLOT DATE =	CHECKED - MJT	REVISED -	DEPARTMENT OF TRANSPORTATION					CH 21 OVER SOUTI	FORK LAKE FORK CREE	K CONTRAC	T NO. 9	5836
3/6/2018	DATE - 03/2018	REVISED -		SCALE : NONE	SHEET NO. 5 OF 13 SHEETS	STA.	TO STA.	FED. ROAD DIST.	NO. ILLINOIS FED	AID PROJECT	-	

40200800

AGGREGATE SURFACE COURSE, TYPE B

TOTAL

TOTAL

214

TON

95

95

### ТАСК СОАТ)

	POUND
G BINDER)	132
IG BINDER)	132
)	66
E)	66
TOTAL	396

### N50 TON 35 36

71 Δ1

DANCE WITH ARTICLE NS SHALL BE INCLUDED ND NO ADDITIONAL

### FACE

0	
	TON
	33
	33
OTAL	66

### (PE A 6"

	SQ YD
	82
	81
	65
	82
TOTAL	310



EXISTING TYPICAL SECTION COUNTY HIGHWAY 21 (KENNEY ROAD)

STA. 101+70.00 TO STA. 103+42.00 STA. 103+82.80 TO STA. 105+56.00 (EXISTING BRIDGE - STA. 103+42.00 TO STA. 103+82.80)

EXIST	ING PAVEMENT TYPE	AND THICKNESS
CORE NO.	LOCATION	PAVEMENT
P-1	101+86.9, 5.5' LT	10" HMA
P-2	102+87.2, 3.0' RT	8.25" HMA
B-1	103+16.4, 9.2' LT	10" HMA
B-2	104+10.3, 8.2' RT	10" HMA
P-3	104+37.9, 4.2' LT	8'' HMA
P-4	105+38.4, 4.5' RT	10" 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% o NDES = 50	4.0% @ NDES = 50
MIXTURE COMPOSITION	IL-9 <b>.</b> 5	IL-9.5FG
(GRADATION)		
FRICTION AGGREGATE	MIXTURE C	N/A

### TYPICAL SECTION NOTES

### PROPOSED TYPICAL SECTION KEY

- (A) AGGREGATE BASE COURSE, TYPE A (15" THICK)

- (E) BITUMINOUS MATERIALS (TACK COAT) 0.05 LB/SQ FT
- (E2) BITUMINOUS MATERIALS (TACK COAT) 0.025 LB/SO FT
- (F) AGGREGATE SHOULDERS, TYPE A (6" THICK)
- ( TOPSOIL (4" THICK) (SEE TYPICAL SECTION NOTE 4)
- $(\ensuremath{\textup{H}})$  seeding, class 2, fertilizer, and mulch, method 2



1. 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

2. SEE THE BRIDGE PLANS FOR PAVEMENT JOINT, JOINT SEALING, AND SURFACE GROOVING INFORMATION FOR THE BRIDGE APPROACH PAVEMENT (SPECIAL).

3. 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 AGGREGATE BASE COURSE, TYPE A, IF THE REQUIRED DENSITY AND STABILITY CAN NOT BE ATTAINED, IT SHALL BE NECESSARY TO UNDERCUT AND REMOVE EARTH AND ORGANIC MATERIAL BELOW THE STABILITY CAN NOT BE ATTAINED, IT SHALL BE NECESSARY TO UNDERCUT AND REMOVE EARTH AND ORGANIC MATERIAL BELOW THE PROPOSED PAVEMENT SYSTEM TO A DEPTH DETERMINED BY THE ENGINEER, ALL UNSTABLE, ON ORGANIC MATERIAL SHALL BE DISPOSED OF OFF THE SITE IN ACCORDANCE WITH ARTICLE 2020.3 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 TECHNICAL SPECIFICATIONS.

4. THE FINISHED EARTHWORK SHALL HAVE VEGETATIVE SUSTAINING SOIL COVERING THE TOP 4" OF AREAS TO BE SEEDED. THE TOPSOIL SHALL MEET THE REQUIREMENTS OF ARTICLE 1081.05 OF THE STANDARD SPECIFICATIONS OR BE APPROVED BY THE ENCINEER. 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.

5. ALL EXPOSED EARTH AREAS SHALL BE SEEDED, FERTILIZED, AND MULCHED IN ACCORDANCE WITH SECTIONS 250 AND 251 OF THE STANDARD SPECIFICATIONS AND THE TECHNICAL SPECIFICATIONS, SEEDING, CLASS 2 AND MULCH, METHOD 2 SHALL BE USED.

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 ¾" TO 3½"±)

CTIONS		546	12-00250	0-00-BR		MACON	31	6		
_			CH 21 0	VER SOUTH FORK L	AKE FORK	CREEK	CONTRACT	NO. 9	5836	
	STA.	TO STA.	FED. RO	AD DIST. NO.	ILLINOIS	FED.	AID PROJECT			
										1







# ROAD CLOSURE PLAN

FILE NAME =	DESIGNED - JAJ	REVISED -			F.A.S.	SECTION	COUNTY	TOTA	AL SHEET
p:\m0320070_macon county - ch21 str no 058-3005 rep\plans\sheets\09traffic.dgn	TRAFFIC CONTROL			TRAFFIC CONTROL PLAN	546	12-00250-00-B	R MACON	31	9
PLOT DATE = 3/6/2018	CHECKED - MJT	REVISED -	DEPARIMENT OF TRANSPORTATION		CH 21 OV	VER SOUTH FORK LAKE FOR	CREEK CONTRAC	CT NO.	95836
07072010	DATE - 0372018	REVISED -		SCALE : NONE SHEET NO. 9 OF 15 SHEETS STA. TO STA.	FED. ROA	AD DIST. NO.  ILLINOI	FED. AID PROJECT		

1. TRAFFIC CONTROL DEVICES AND TRAFFIC CONTROL SIGNS MAY BE ADJUSTED TO FIT FIELD CONDITIONS AS DIRECTED BY THE ENGINEER.

2. 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, WEKENDS, 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).

3. REFER TO THE TECHNICAL SPECIFICATIONS FOR ADDITIONAL INFORMATION.

CONTROL SCHEDULE								
ESCRIPTION	UNIT	OTY.						
PROTECTION, (SPECIAL)	L SUM	1						



DEPARTMENT OF TRANSPORTATION

ClarkNietz

PLOT DATE = 3/6/2018 CHECKED

DATE

MJT

03/2018

REVISED

REVISED

SCALE : 1"=20' SHEET NO. 10 OF 13 SHEETS

		F.A.S. RTE.	SECT	TION		COUNTY	SHEETS	NO.	
H	ROL PLAN		546	12-00250	0-00-BR		MACON	31	10
			CH 21 0	VER SOUTH FORK L	AKE FORK	CREEK	CONTRACT	NO. 95	5836
	STA. 101+70.00	TO STA. 105+56.00	FED. RO	AD DIST. NO.	ILLINOIS	FED.	AID PROJECT		



FILE NAME =	DESIGNED - JAJ	REVISED -			RTE. SECT	ION	COUNTY
p:\m0320070_macon county - ch21 str no 058-3005 rep\plans\sheets\11marking.dgn	DRAWN - DLM	REVISED -	STATE OF ILLINOIS	PAVEMENT MARKING PLAN	546 12-00250	-00-BR	MACON
PLOT DATE =	CHECKED - MJT	REVISED -	DEPARTMENT OF TRANSPORTATION		CH 21 OVER SOUTH FORK LA	AKE FORK CREEK	CONTRA
3/6/2018	DATE - 03/2018	REVISED -	SCAL	LE : 1"=20' SHEET NO. 11 OF 13 SHEETS STA. 101+70.00 TO STA. 105+56.00	FED. ROAD DIST. NO.	ILLINOIS FED. AI	) PROJECT



FILE NAME =	DESIGNED - JAJ	REVISED -			
p:\m0320070_macon county	DRAWN - DLM	REVISED -	STATE OF ILLINOIS		MISCELLANEOUS
PLOT DATE =	CHECKED - MJT	REVISED -	DEPARTMENT OF TRANSPORTATION		
3/6/2018	DATE - 03/2018	REVISED -		SCALE : NONE	SHEET NO. 12 OF 13 SHEETS

FIELD ENTRANCE DETAIL STA. 105+32.0 LT.

-EXIST. GROUND

•PERPENDICULAR TO OUTSIDE EDGE OF ENTRANCE

SECTION A-A

AGGREGATE SURFACE COURSE, TYPE B (8" THICK)

SECTION B-B

GRADE VARIES PER CONTROL POINTS

<u>PLAN</u>



CONTROL POINTS

POINT	STATION	OFFSET	ELEVATION
1	104+72.0	32.0' LT.	612.12
2	104+81.8	32.0' LT.	612.94
3	104+94.3	28.7′ LT.	614.05
4	105+03.4	19.5' LT.	615.15
5	105+04.3	18.0' LT.	MATCH PROP. SHLDR.
6	105+38.9	18.0' LT.	615.17
7	105+32.9	28.5′ LT.	615.05
8	105+12.7	48.6′ LT.	614.16
9	104+85.2	56.0′LT.	612.93
10	104+72.0	56.0′ LT.	611.88
11	104+72.0	44.0' LT.	612.00
12	104+83.5	44.0' LT.	612.97
13	105+03.5	38.6′LT.	614.17
14	105+18.1	24.0' LT.	615.17
15	105+25.4	11.5' LT.	MATCH PROP. E.O.P.
16	105+02.0	18.0' LT.	MATCH PROP. SHLDR.
17	105+47.6	13.0′ LT.	MATCH PROP. SHLDR.



6.5

AGGREGATE SURFACE COURSE, TYPE B (8" THICK)

PROP. EDGE

ClarkNietz

DETAILS			F.A.S. RTE.	SECT	TION		COUNTY	TOTAL SHEETS	SHEET NO.
			546 12-00250-00-BR			MACON	31	12	
			CH 21 0	VER SOUTH FORK L	AKE FORK CRE	EEK	CONTRACT	NO. 95	5836
	STA.	TO STA.	FED. RO	AD DIST. NO.	ILLINOIS FE	ED. AI	D PROJECT		

- SLOPE VARIES PER CONTROL POINTS

-EXIST. GROUND









FILE NAME =	DESIGNED - JAJ	REVISED -				057.11.0		F.A.S. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
p:\m0320070_macon county - cn21 str no 058-3005 rep\plans\sneets\13details.dgn	DRAWN - DLM	REVISED -	STATE OF ILLINOIS		MISCELLANEOUS	DETAILS		546	12-00250-00-BR	MACON	31	13
PLOT DATE =	CHECKED - MJT	REVISED -	DEPARIMENT OF TRANSPORTATION					CH 21 OVER	SOUTH FORK LAKE FORK CREEK	CONTRACT	NO. 951	336
3/6/2018	DATE - 03/2018	REVISED -		SCALE : NONE	SHEET NO. 13 OF 13 SHEETS	STA.	TO STA.	FED. ROAD [	IST. NO. ILLINOIS FED.	AID PROJECT		



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## WATERWAY INFORMATION

ge Area	= 12.7	sq. mil	es	Low Grac	le Elev.	615.39	@ Sta	. 98+05	
	Freq.	Q	Opening	Sq. Ft.	Nat.	Head	- Ft.	Headwa	iter El.
	Yr.	C.F.S.	Exist.	Prop.	H.W.E.	Exist.	Prop.	Exist.	Prop.
	10	1620	331.09	397.05	611.93	0.27	0.26	612.04	612.15
	20	2089	331.09	458.48	613.02	0.87	0.24	613.77	613.25
	50	2650	331.09	490.92	613.68	1.68	0.26	6 <i>1</i> 5, <i>1</i> 6	613.82
	100	3100	331.09	538.00	614.32	1.85	1.01	616.28	615.17
Check	200	3578	331.09	538.00	614.65	1.66	0.95	616.39	615.35
ılc.	500	4230	331.09	538.00	614.95	1.46	0.87	614.46	615.41

## DESIGN SCOUR ELEVATION TABLE

Event / Limit	Design Sc	our Elevat	ions (ft.)
State	Abutments	Piers	Item 113
Q100	610.20	595.15	
Q200	610.20	593.46	0
Design	610.20	595.15	0
Check	610.20	593.46	

## TOTAL BILL OF MATERIAL

	ITEM	UNIT	SUPER	SUB	TOTAL
	Channel Excavation	Cu Yd			1225
	Cofferdam Excavation	Cu Yd		124	124
	Cofferdam (Type 2) (Location 1)	Each		1	1
	Cofferdam (Type 2) (Location 2)	Each		1	1
	Filter Fabric	Sq Yd		1,060	1,060
	Removal of Existing Structures	Each			1
	Structure Excavation	Cu Yd		166	166
	Concrete Structures	Cu Yd		142.5	142.5
*	Concrete Superstructure	Cu Yd	152.3		152.3
	Bridge Deck Grooving	Sq Yd	457		457
	Reinforcement Bars, Epoxy Coated	Pound	42,890	14,300	57,190
	Steel Railing, Type SM	Foot	188		188
	Furnishing Metal Shell Piles 12" x 0.250"	Foot		699	699
	Driving Piles	Foot		699	699
	Test Pile Metal Shells	Each		2	2
	Pile Shoes	Each		14	14
	Name Plates	Each			1
	Geocomposite Wall Drain	Sq Yd		56	56
	Stone Riprap, Class A5	Sq Yd		1,060	1,060
	Granular Backfill for Structures	Cu Yd		94	94
*	Pipe Underdrains for Structures 4"	Foot		130	130
*	Bridge Approach Pavement (Special)	Sq Yd		201	201
	*Pay item governed by Special Provision.				

COE BRIDGE SOUTH FORK LAKE FORK CREEK BUILT BY MACON COUNTY SEC. 12-00250-00-BR F.A.S. 546 STA. 103+63.00 STR. NO. 058-3407 LOADING HL-93

> NAME PLATE See Std. 515001

Seismic Performance Zone (SPZ) = 1

GENERAL PLAN & ELEVATION MACON COUNTY CH-21 OVER SOUTH FORK LAKE FORK CREEK F.A.S. 546 - SEC. 12-00250-00-BR STATION 103+63.00 STRUCTURE NO. 058-3407

	F.A.S. RTE.	SECT	TION		COUNTY	TOTAL SHEET	SHEET
	546	12-00250	0-00-BR		MACON	31	14
	CH 21 0	VER SOUTH FORK L	LAKE FORK	CREEK	CONTRACT	NO. 1	95836
STA. 101+70.00 TO STA. 105+56.00	FED. RO	AD DIST. NO.	ILLINOIS	FED.	AID PROJECT		

## GENERAL NOTES

Reinforcement bars designated (E) shall be epoxy coated.

cts. cts.

12 12

at at

bio(E) bs(E) t

# 4 #

\*28-

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.



						lower diter re
	DESIGNED	- SMM	REVISED -			
County - CH21 Str No 058-3005 Rep\Plans\sheets\M0320070_Bridge.dgn	DRAWN	- SMM	REVISED -	STATE OF ILLINOIS		
	CHECKED	- MIA	REVISED -	DEPARTMENT OF TRANSPORTATION		STRUCTURE NU.
	DATE	- 03/2018	REVISED -		SCALE : NONE	SHEET NO. 2 OF 10 SHEETS

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FILE NAME =

PLOT DATE = 3/2/2018

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234"

bio(E) -

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IOTES	F.A.S. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
058-3407	546	12-00250-00-BR	MACON	31	15
050 5 101	CH 21 0	VER SOUTH FORK LAKE FORK CREEK	CONTRACT	NO. 95	5836
STA. 101+70.00 TO STA. 105+56.00	FED. RO	AD DIST. NO. ILLINOIS FED.	AID PROJECT		



С	TURE		F.A.S. RTE.	SECT	TION		COUNTY	TOTAL SHEETS	SHEET NO.
	058-3407		546	12-00250	0-00-BR		MACON	31	16
_	030 3101		CH 21 0	VER SOUTH FORK L	AKE FORK	CREEK	CONTRACT	NO. 95	5836
	STA. 101+70.00	TO STA. 105+56.00	FED. RO	AD DIST. NO.	ILLINOIS	FED.	AID PROJECT		





FILE NAME =	DESIGNED -	SMM	REVISED -			SUPERSTRUCTURE	F.A.S. RTE.	SECTION	COUNTY	TOTA SHEE	SHE
P:\M0320070_Macon County - CH21 Str No 058-3005 Rep\Pians\sheets\M0320070_Bridge.ogn	DRAWN -	SMM	REVISED -	STATE OF ILLINOIS		STRUCTURE NO 058-3407	546	12-00250-00-BR	MACON	31	1
PLOT DATE =	CHECKED -	MIA	REVISED -	DEPARTMENT OF TRANSPORTATION		511001012 110: 030 3101	CH 21 OVEF	R SOUTH FORK LAKE FORK CREEP	CONTRAC	T NO.	95836
3/2/2018	DATE -	03/2018	REVISED -		SCALE : NONE	SHEET NO. 4 OF 10 SHEETS STA. 101+70.00 TO STA. 105+56.00	FED. ROAD	DIST. NO. ILLINOIS FED.	AID PROJECT		

2" cI.

— <sup>3</sup>4" Drip notch full length



## FIELD CUTTING DIAGRAM

Order  $a_2(E)$  and  $a_4(E)$  bars full length. Cut as shown and use remainder of bars on opposite end of slab.

<u>1'- 3"</u>		<u>S</u> <u>BI</u>	UPE LL	ERSTRU OF MAT	CTUI TER.	<u>RE</u> IAL		
41	Bar	Nc	).	Size	Len	<u>g</u> th	Sha	)e
	a(E)	10		#5	36′-	2"		
	a1(E)	70		#8	27'-	8"		
(R SE(F) *	a2(E)	22		#8	28'-	10"		
	a3(E)	70		#9	27'-	8"		
*	04(E)	22		#7	28'-	10"		
	b(E)	62		#7	32'-	10"		
<u>'-0"</u>	b1(E)	31		#6	36′-	0"		
	b2(E)	60		#7	22'-	0"		
i	b3(E)	30		#7	24'-	6″		
I	D4(E)	60		#7	15′-	0"		
$x_1(E)$ 1	b5(E)	62		#7	35′-	4"		
	b6(E)	62		#5	17'-	0"		
	s5(E)	364	!	#4	6′-1	!1"		
6" .	s6(E)	182		#4	2'-	O″	<	٦
	x(E)	60		#5	7'- :	5″	$\sim$	
	x1(E)	60		#5	8′-1	0"		٦
	x2(E)	62		#5	9'-!	9″		
n –								
	Concrete S	Supersti	ructu	ire	Cu.	Yd.	152.	.3
	Reinforcem	nent Bai	rs,		Pou	od	36 1	50
	Ероху Соа	ted			1 00	nu	50,1	50
	Bridge Dec	ck Groo	ving		Sq.	Yd.	27	0
	*See field	cutting	diag	gram.				
CTURE		F.A.S. RTE.		SECTION		CO	UNTY	TO SHE



3/2/2018

- 03/2018

REVISED

DATE

SCALE : NONE SHEET NO. 5 OF 10 SHEETS

All field drilled holes shall be coated with an approved zinc rich

steel shims shall be provided to align rail between adjacent spans.

All steel rail members shall be galvanized according to Article

BILL	OF	MATERIAL

Item	Unit	Quantity
Steel Railing, Type SM	Foot	188

PE SM (SPECIAL) F.A.S. SECTION COUNTY	TOTAL SHEETS	SHEET NO.
058-3407 546 12-00250-00-BR MACON	31	18
CH 21 OVER SOUTH FORK LAKE FORK CREEK CONTRACT	NO. 95	6836
STA. 101+70.00 TO STA. 105+56.00 FED. ROAD DIST. NO. ILLINOIS FED. AID PROJECT		



4/10/2018

DATE

- 03/2018

REVISED

SCALE : NONE SHEET NO. 6 OF 10 SHEETS

\*Set v<sub>1</sub>(E) bars to provide 4<sup>1</sup>/<sub>2</sub>"± clear from top of slab

		-	
4"	v <sub>1</sub> (E)	) <u> <u> </u> </u>	*Varies from 1'-6'2" to 1'-10"
ы(Е) — <u>′′ сl.</u> ′′р.	<u>1'''</u> <u>1'''</u> <u>1'-6''</u> <u>3'-0''</u>	s(E) s <sub>1</sub> ( , tueupeque co-, co-, co- co-, co- co-, co- co-, co- co-, co- co-, co- co-, co- co-, co- co-, co- co-, co- co- co-, co- co- co- co- co- co- co- co- co- co-	(E) "0 ", '

### SECTION A-A

### BILL OF MATERIAL

Bar	No.	Size	Length	Shape			
h(E)	28	#5	12'-2"				
p(E)	9	#7	36′-2″				
s(E)	26	#5	13′-7″				
s1(E)	26	#5	3′-8″				
s <sub>2</sub> (E)	2	#5	15′-3″				
u(E)	8	#6	10′-9″				
v(E)	40	#5	5′-7″				
$v_I(E)$	84	#5	6′-2″	٦			
Structu	re Exco	avation	Cu. Yd.	83			
Concrei	'e Struc	tures	Cu. Yd.	20.1			
Reinfor	cement	Bars,	Pound	2 120			
Ероху	Coated		i ouna	2,420			
Furnish	ing Meta	al Shell	Foot	120			
Piles, 1	2" x O.	25"	1 001	120			
Driving	Piles		Foot	120			
Test Pi	ile Metal	Shells	Each	1			
Granula	r Backf	`i//	Cu Yd	47			
for Str	uctures		<i>cu. ru.</i>	7/			

T	MENT		F.A.S. RTE.	SECT	ION		COUNTY	TOTAL SHEETS	SHEET NO.
	058-3407		546	12-00250	0-00-BR		MACON	31	19
	000 0101		CH 21 C	VER SOUTH FORK L	AKE FORK CR	REEK	CONTRACT	NO. 95	5836
	STA. 101+70.00	TO STA. 105+56.00	FED. RC	AD DIST. NO.	ILLINOIS F	ED. 4	ID PROJECT		



4/10/2018

DATE

- 03/2018

REVISED

SCALE : NONE SHEET NO. 7 OF 10 SHEETS

 $4_2^{\prime}$ "± clear from top of slab

Bar	No.	Size	Length	Shape
h(E)	28	#5	12′-2″	
p(E)	9	#7	36′-2″	
s(E)	26	#5	13′-7″	
s1(E)	26	#5	3′-8″	Ĺ
s <sub>2</sub> (E)	2	#5	15′-3″	
u(E)	8	#6	10′-9″	
v(E)	40	#5	5′-7″	
$v_I(E)$	84	#5	6′-2″	7
Structu	re Exco	ivation	Cu. Yd.	83
Concrei	'e Struc	tures	Cu. Yd.	20.1
Reinfor	cement	Bars,	Daviad	0.400
Ероху	Coated		Pound	2,420
Furnish	ing Meta	al Shell	Foot	15.0
Piles, 1	2" x 0.	25"	F 001	150
Driving	Piles		Foot	150
Granula	r Backf	`i//	Cu Yd	47
for Str	uctures		<i>cu.</i> 70.	77

Т	MENT		F.A.S. RTE.	SECT	TION		COUNTY	TOTAL SHEETS	SHEET NO.
	058-3407		546	12-00250	0-00-BR		MACON	31	20
_	030 3101		CH 21 0	VER SOUTH FORK L	AKE FORK CR	REEK	CONTRACT	NO. 9	5836
	STA. 101+70.00	TO STA. 105+56.00	FED. RO	AD DIST. NO.	ILLINOIS F	ED. A	ID PROJECT		



4/10/2018

DATE

- 03/2018

REVISED

SCALE : NONE SHEET NO. 8 OF 10 SHEETS STA. 101+70.00 TO STA. 105+56.00 FED. ROAD DIST. NO. ILLINOIS FED. AID PROJECT

CH 21 OVER SOUTH FORK LAKE FORK CREEK CONTRACT NO. 95836





FILE NAME =	DESIGNED -	SMM	REVISED -			METAL SHELL PILE DET	ΓΔΤΙ ς	F.A.S. SEC	TION COUN	TOTAL	L SHEET
P:\M0320070_Macon County - CH21 Str No 058-3005 Rep\Plans\sheets\M0320070_Bridge.dgn	DRAWN -	SMM	REVISED -	STATE OF ILLINOIS		STRUCTURE NO 058-3	3407	546 12-002	50-00-BR MACO	N 31	22
PLOT DATE =	CHECKED -	MIA	REVISED -	DEPARTMENT OF TRANSPORTATION		51100101E 110. 050 5		CH 21 OVER SOUTH FORK	LAKE FORK CREEK CONTR	ACT NO. (	95836
3/2/2018	DATE -	03/2018	REVISED -		SCALE : NONE	SHEET NO. 9 OF 10 SHEETS STA. 101	1+70.00 TO STA. 105+56.00	FED. ROAD DIST. NO.	ILLINOIS FED. AID PROJEC	T	

Route:         CH 21 (FAS 546) Kenny           Section:         403B MFT           County:         Macon County           Structure No.         SN 058-3005           Station:         102+89           Offset:         9' Lt. (West) of C.L.	r Road				Boring:         B-1           Page:         Page 1 of 2           Date of Boring:         July 8, 2016           Drilled By:         Zach Wilcoxe           Checked By:         Robert W. Ha           MET Project No:         63066	n ihn, PE			
Surface Water Elevation: 601.6 ft. Ground Water Elevation: when drilling: 598.92 ft. at completion:	D E P T H	B L O W S	Qu	мс		D E P T H	B L O W S	Qu	M
Ground Surface Elevation: 615.92 ft.	(n.)	(6)	(tst) -	(%)		(n.)	(6)	(tst)	(%
10" Asphalt over 10" Crushed Stone	-				(No Recovery)	-	6 10		-
Dark brown silty CLAY (OL), Possible Fill Dd = 91 PCF	-   -	3	2.0B	26			12		
	5_	4			Gray silty CLAY (CL) with sand and small gravel, Till	_	9 9	4.4B	10
Gray and brown mottled silty CLAY (CL), trace sand, Possible Fill Dd = 92 PCF	-   -	1 1 2	0.8B	21	Dd = 118 PCF	-			
54-521-51	_					_			
Dark brown silty CLAY (OL), Buried Topsoil		1 1 3	1.4B	34		35	24		
Da = 80 PCF	10 -					_	30 29		10
Gray with brown mottling silty CLAY (CL) Dd = 86 PCF	111	1 2 2	1.0B	27	Gray clayey SAND (SC)	-			
		1 2	0.8B	21		40_			
Gray silty CLAY (CL), trace sand Dd = 97 PCF	 15 <sup></sup>	2				_	26 30 32	4.5P	9
Dd = 101 PCF	-   -	2 3 4	1.6B	20	Gray sandy CLAY (SC) with small gravel, Till	-			
Gray with brown mottling silty CLAY (CL), some sand		4	2.48	16					
Dd = 108 PCF		9	2.40	10	Dd = 134 PCF		10 19	4.5P	1
Brownish-gray silty CLAY (CL) with		6 9	4.8B	14	Grayish-brown sandy SILT (SM)	_	22		
Dd = 117 PCF	-   -	9			with small graver, mi	-			
Dd = 119 PCF Gray silty CLAY (CL) with sand		7 9 11	5.2B	12		50 <sup>-</sup>	12		-
and small gravel, Till	25_				Gray sandy SILT (SM) with	_	25 30	4.0P	6
(Poor recovery)		8 11 13	-	13	small gravel, Till	_			
N - Standard Penetration Test (SPT) = MC- Moisture Content - Percent of dry Qu- Unconfined Compressive Strength	Sum weigh	of last it per se	two bl	ow val oot (ts	ues in sample Type Failure g Quitest 5	3-Bulge 5-Shear P-Penetro	ometer		

MET Midwest Engineering and Testing, Inc.

BRIDGE FOUNDATION SOIL BORING LOG



Route: CH 21 (FAS 546) Kenn Section: 4038 MFT County: Macon County Structure No. SN 058-3005 Station: 103+83 Offset: 8 <sup>1</sup> Rt. (East) of C.L.	y Road	1			MET         Midwest         Engineering and Te           Boring:         B-2           Page:         Page 1 of 2           Date of Boring:         July 7, 2016           Drilled By:         Zach Wilcoxen           Checked By:         Robert W. Hahr           MET Project No:         63066	sting	, Inc.		
Surface Water Elevation: 601.6 ft. Ground Water Elevation: when drilling: 600.94 ft. at completion: Ground Surface Elevation: 615.94 ft.	D P T H (ft.)	B L O W S (6")	<b>Q</b> u (tsf)	MC (%)		D E P T H (ft.)	B L O W S (6")	<b>Q</b> u (tsf)	M (9
10" Asphalt over 8" Crushed Stone	_	-	-	6					
	-				Dd = 126 PCF	-	6 7 8	3.4B	1
Dd = 106 PCF	-	3 3 3	2.4B	11	Gray silty CLAY (CL) with sand and small gravel, Till	30_ <sup>_</sup>	6		
Dark brown silty CLAY (OL), some sand, Possible Fill	5	1	2.00	12	Dd = 125 PCF	-	10 14	5.8B	ę
	_	1	2.0F	13		-			
Dd = 91 PCF Dark grav silty CLAY (OL)	-	1 2 3	1.4B	12		35 -	14		
Buried Topsoil	10	2				-	25 26	•	7
Dd = 94 PCF Gray with brown mottling silty CLAY (CL)	-	2	1.3B	20		-			
Dd = 89 PCF	-	1	0.8B	28	Gray sandy SILT (SM) with ɛmall gravel, Till		27		
bark gray diayby ole r (ine)	15	-			Dd = 132 PCF	-	50/4"	6.6B	8
Gray medium-coarse SAND (SP)	-	2 4 5	-	13		-			
Dd = 109 PCF	-	34	1.9B	16					
Gray with brown mottling silty CLAY (CL)	20	4			Dd = 132 PCF	-	11 21 20	3.0S	g
Brownish-gray silty CLAY )CL) with sand and small gravel, Till Dd = 126 PCF	-	3 4 6	1.0B	17	Gray and brown sandy SILT (SM) with small gravel, Till	-			
Dd = 118 PCF		6	2.8B	12		50 <sup>—</sup>			
Gray silty CLAY (CL) with sand and small gravel, Till	26	9			Gray silty SAND (SP-SM)	_	14 24 31	-	1:
Dd = 118 PCF	_	5 6 8	2.7B	11	Gray sandy SILT (SM) with small gravel, Till	-			

FILE NAME =	DESIGNED - SMM	REVISED -			BORING LOGS	F.A.S. RTE.	SECTIO	ON COUNTY	TOTA SHEET	L SHEET
P:\M0320070_Macon County - CH21 Str No 058-3005 Rep\Plans\sheets\M0320070_Bridge.dgn	DRAWN - SMM	REVISED -	STATE OF ILLINOIS		STRUCTURE NO 058-3407	546	12-00250-0	00-BR MACON	31	23
PLOT DATE =	CHECKED - MIA	REVISED -	DEPARTMENT OF TRANSPORTATION		STRUCTURE NO: 030 5401	СН 21	DVER SOUTH FORK LAK	E FORK CREEK CONTRAC	T NO.	95836
3/2/2018	DATE - 03/2018	REVISED -		SCALE : NONE	SHEET NO. 10 OF 10 SHEETS STA. 101+70.00 TO STA. 105+56.00	FED. R	DAD DIST. NO. IL	LLINOIS FED. AID PROJECT		



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	3/6/2018							DATE - 03/2018 REVISED -								DEPARIMENT OF TRANSPORTATION									SCALE : 1"=5' SHEET NO. 3 OF 8 SHEETS					



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