06-11-2021 LETTING ITEM 144

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- 5-16 MAINTENANCE OF TRAFFIC PLANS 17 EROSION & SEDIMENT CONTROL AND PAVEMENT MARKING PLANS
- 18-38 STRUCTURAL PLANS
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HIGHWAY STANDARDS

000001-08	STANDARD SYMBOLS, ABBREVIATIONS AND PATTERNS
001001-02	AREAS OF REINFORCEMENT BARS
001006	DECIMAL OF AN INCH AND OF A FOOT
280001-07	TEMPORARY EROSION CONTROL SYSTEMS
420406	PAVEMENT CONNECTOR (HMA) FOR BRIDGE APPROACH SLAB
515001-04	NAME PLATE FOR BRIDGES
630001-12	STEEL PLATE BEAM GUARDRAIL
630301-09	SHOULDER WIDENING FOR TYPE 1 (SPECIAL) GUARDRAIL TERMINALS
631032-09	TRAFFIC BARRIER TERMINAL, TYPE 6A
701201-05	LANE CLOSURE, 2L, 2W, DAY ONLY, FOR SPEEDS >= 45 MPH
701311-03	LANE CLOSURE, 2L, 2W, MOVING OPERATIONS - DAY ONLY
701321-18	LANE CLOSURE, 2L, 2W, BRIDGE REPAIR WITH BARRIER
701901-08	TRAFFIC CONTROL DEVICES
704001-08	TEMPORARY CONCRETE BARRIER
720001-01	SIGN PANEL MOUNTING DETAILS
720006-04	SIGN PANEL ERECTION DETAILS
780001-05	TYPICAL PAVEMENT MARKINGS
782006-01	GUARDRAIL AND BARRIER WALL REFLECTOR MOUNTING DETAILS
	SOURCE AND DADRIEN WALL REFLECTOR MOUNTING DETAILS

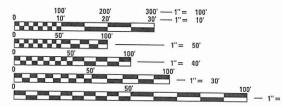
FUNCTIONAL CLASSIFICATION PRINCIPAL ARTERIAL

DESIGN/POSTED SPEED

POSTED SPEED: 55 MPH DESIGN SPEED: 60 MPH

TRAFFIC DATA

2020 ADT = 8,850 DESIGN YEAR ADT (2040) = 8,590

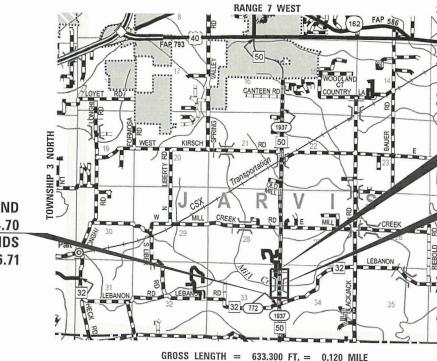


FULL SIZE PLANS HAVE BEEN PREPARED USING STANDARD ENGINEERING SCALES. REDUCED SIZED PLANS WILL NOT CONFORM TO STANDARD SCALES. IN MAKING MEASUREMENTS ON REDUCED PLANS, THE ABOVE SCALES MAY BE USED.

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



IMPROVEMENTS END <u>STA 199 + 54.70</u> SECTION ENDS STA 196 + 66.71



GROSS LENGTH = 633.300 FT. = 0.120 MILE NET LENGTH = 165.040 FT. = 0.031 MILE

STATE OF ILLINOIS

DEPARTMENT OF TRANSPORTATION

PROPOSED

HIGHWAY PLANS

FAS ROUTE 1937

SECTION 18-00084-04-BR (STPBR FUNDS)

PROJECT ZPHZ(416)

BRIDGE REPLACEMENT OF

TROY-O'FALLON ROAD

OVER MILL CREEK

MADISON COUNTY

C-98-019-22

IMPROVEMENTS BEGIN STA 193 + 21.40 SECTION BEGINS STA 195 + 01.67

2

BRIDGE REPLACEMENT EXIST SN 060-3022 PROP SN 060-3373

EXISTING STRUCTURE 060-3022 IS A THREE-SPAN VOIDED DECK BEAM STRUCTURE. THE BACK-TO-BACK ABUTMENTS MEASURES 108'-2" AND THE OUT-TO-OUT MEASURES 41'-0". THE EXISTING STRUCTURE IS TO BE REMOVED AND REPLACED WITH A NEW STRUCTURE. PROPOSED STRUCTURE 060-3373 IS A SINGLE SPAN STEEL BEAM SUPERSTRUCTURE ON INTERGAL ABUTMENTS. THE BACK-TO-BACK ABUTMENTS MEASURES 83'-6 1/2" AND THE OUT-TO-OUT MEASURES 40'-0".



LANCED CHRISMAN ILLINOIS REG. PROFESSIONAL ENGINEER NO. 062-056127 EXPIRATION DATE 11-30-2021 SHEETS 1-17

MARCH/19t

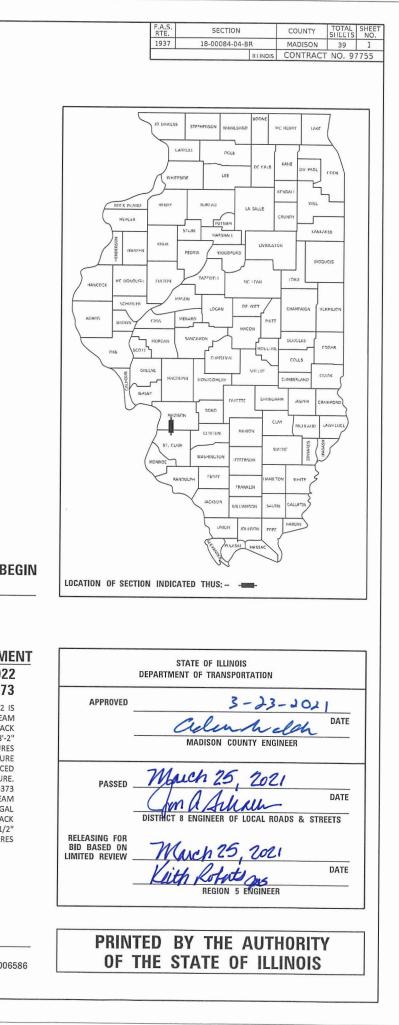


JIA WANG ILLINOIS REG. PROFESSIONAL ENGINEER NO. 081-006586 EXPIRATION DATE 11-30-2022

2021

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GENERAL NOTES

- 1. UNDERGROUND FACILITIES, STRUCTURES AND UTILITIES HAVE BEEN PLOTTED FROM AVAILABLE SURVEYS AND RECORDS. THEIR LOCATIONS MUST BE CONSIDERED APPROXIMATE ONLY. IT IS POSSIBLE THERE MAY BE OTHERS, THE EXISTENCE OF WHICH IS NOT PRESENTLY KNOWN OR SHOWN. IT IS THE CONTRACTOR'S RESPONSIBILITY TO DETERMINE THEIR EXISTENCE AND EXACT LOCATION AND TO AVOID DAMAGE THERETO, ILLINOIS STATE LAW REQUIRES A 48-HOUR NOTICE TO BE GIVEN TO ALL UTILITIES WITHIN THE PROJECT AREA BEFORE DIGGING. FIELD MARKING OF FACILITIES MAY BE OBTAINED BY CONTACTING J.U.L.I.E. OR FOR NON-MEMBERS, THE UTILITY COMPANY DIRECTLY.
- 2. THE FOLLOWING UTILITY COMPANIES MAY HAVE FACILITIES LOCATED WITHIN THE PROJECT LIMITS OF ADJUSTMENT, RELOCATION OR REMOVAL. ALL ARE MEMBERS OF J.U.L.I.E. UNLESS NOTED OTHERWISE.

AT&T - TELEPHONE PHONE: 618-346-6426

VILLAGE OF CASEYVILLE - WATER PHONE: 618-344-1234

- 3. THE CONTRACTOR SHALL VERIFY ALL DIMENSIONS AND CONDITIONS IN THE FIELD PRIOR TO CONSTRUCTION AND ORDERING MATERIALS.
- 4. THE REMOVAL OF THE BRIDGE APPROACH PAVEMENT IS INCLUDED IN THE COST OF PAVEMENT REMOVAL.
- 5. THE PROPOSED PAVEMENT MARKING SHALL MATCH THE LOCATIONS OF THE EXISTING PAVEMENT MARKING, AS DIRECTED BY THE ENGINEER.
- 6. THE EXISTING AND PROPOSED RIGHT-OF-WAY LINES AND PROPERTY LINES SHOWN ON THE PLAN SHEETS ARE GRAPHICAL REPRESENTATIONS AND SHALL NOT BE USED AS MEANS TO ESTABLISH OWNERSHIP. IN ALL MATTERS RELATING TO RIGHT-OF-WAY, THE PLOT OF HIGHWAYS SHALL BE THE CONTROLLING DOCUMENT
- 7. FACTORS USED FOR ESTIMATING PLAN QUANTITIES ARE AS FOLLOWS AND SHALL NOT BE USED FOR THE BASIS OF FINAL QUANTITIES.

HOT-MIX ASPHALT (SURFACE & BINDER) 112 LBS/SO YD/INCH SEEDING FERTILIZER RATIO (NIT:PHOS:POT) 90:90:90 LBS/ACRE BITUMINOUS MATERIAL (TACK COAT) 0.050 LBS/SO FT

- 8. THE CONTRACTOR SHALL CONFINE ALL OPERATIONS TO THE CONSTRUCTION LIMITS LINE SHOWN ON THE PLANS. ANY AREA DISTURBED BEYOND THESE LIMITS SHALL BE RESTORED TO ITS ORIGINAL CONDITION AT THE CONTRACTOR'S EXPENSE.
- 9. THE CONTRACTOR SHALL FERTILIZE, SEED AND MULCH ALL EARTH SURFACES DISTURBED BY CONSTRUCTION, FERTILIZER, SEEDING AND MULCH WITHIN THE CONSTRUCTION LIMITS WILL BE PAID FOR AS PROVIDED IN THE CONTRACT. FERTILIZER, SEEDING AND MULCH OUTSIDE THESE LIMITS WILL NOT BE MEASURED FOR PAYMENT.
- 10. ANY EXCAVATION REQUIRED FOR THE CONSTRUCTION OF AGGREGATE SHOULDERS, TYPE A SHALL NOT BE MEASURED SEPARATELY FOR PAYMENT BUT SHALL BE INCLUDED IN THE COST OF "AGGREGATE SHOULDERS, TYPE A. 6"."
- 11. THE BRIDGE BAT ASSESSMENT EXPIRES 3/18/2023. A VALID ASSESSMENT IS REQUIRED PRIOR TO PERFORMING ANY WORK BELOW EXISTING BRIDGE DECK SURFACE.

COMMITMENTS

TREES THREE (3) INCHES OR GREATER IN DIAMETER AT BREAST HEIGHT SHALL NOT BE REMOVED FROM APRIL 1 THROUGH SEPTEMBER 30.

MAINTENANCE OF TRAFFIC GENERAL NOTES

- 1. TRAFFIC CONTROL PLANS AS PRESENTED HERE CONSTITUTE A SUGGESTED SEQUENCE OF OPERATIONS AND ARE INTENDED TO SERVE AS A GUIDE FOR SAFE DIVERSION OF TRAFFIC DURING EXECUTION OF THIS CONTRACT, THE CONTRACTOR MAY RECOMMEND A NEW PLAN OR PROPOSE CHANGES TO ASPECTS OF THE PLAN BUT NOT AT THE EXPENSE OF PUBLIC SAFETY OR CONVENIENCE. ANY PROPOSED MODIFICATION OF THE PLANS SHALL BE SUBMITTED IN ADVANCE FOR THE WRITTEN APPROVAL OF THE ENGINEER.
- 2. ALL TRAFFIC CONTROL SIGNS AND DEVICES SHALL CONFORM TO THE TRAFFIC CONTROL PLANS AND THE LATEST EDITION OF THE "MANUAL ON UNIFORM TRAFFIC CONTROL DEVICES FOR STREETS AND HIGHWAYS"AND SHALL BE IN PLACE BEFORE CONSTRUCTION BEGINS
- 3. ALL SIGN SUPPORTS AND CHANNELIZING DEVICES SHALL BE CERTIFIED BY THE CONTRACTOR OR MANUFACTURER AS MEETING THE APPLICABLE NCHRP REPORT 350 TEST LEVEL 3
- 4 THE CONTRACTOR SHALL CONTACT THE ENGINEER AT LEAST 72 HOURS IN ADVANCE OF REGINNING WORK TO ALLOW FOR COORDINATION BETWEEN THE TRAFFIC CONTROL PLAN AND THE VARIOUS ITEMS OF WORK REQUIRED.
- 5. THE EXACT NUMBER, LOCATION AND SPACING OF ALL TRAFFIC CONTROL SIGNS AND DEVICES MAY BE ADJUSTED TO FIT FIELD CONDITIONS AS DIRECTED BY THE ENGINEER, LOCATION OF SIGNS AND BARRICADES SHOWN ON THE PLANS IS APPROXIMATE BARRICADES SHALL BE INSTALLED AS REQUIRED TO ACHIEVE A PROPER CLOSURE OR AS OTHERWISE DIRECTED ON THE PLANS OR BY THE ENGINEER. SIGNS SHALL BE INSTALLED RELATIVE TO CLOSURES OR HAZARDS AS DIRECTED ON THE PLANS, HIGHWAY STANDARDS, AND BY THE ENGINEER.
- 6. WHEN SPECIFIC IDOT TRAFFIC CONTROL STANDARDS ARE CITED, ALL APPURTENANCES INCLUDED ON THAT STANDARD, SUCH AS ARROW BOARDS, BARRICADES, VERTICAL PANELS, ETC. SHALL BE INSTALLED IN THE LOCATIONS AND TO THE SPECIFICATIONS DESCRIBED
- 7. PAINT PAVEMENT MARKINGS MAY BE USED FOR TEMPORARY PAVEMENT MARKING ONLY ON SURFACES TO BE REMOVED DURING THE COURSE OF CONSTRUCTION. TEMPORARY PAVEMENT MARKINGS TO BE PLACED ON FINAL ROADWAY SURFACES SHALL BE PAVEMENT MARKING TAPE TYPE III
- 8. THE CONTRACTOR SHALL REMOVE ALL TEMPORARY PAVEMENT MARKING WHICH CONFLICTS WITH THE NEXT STAGE OR FINAL STRIPING REMOVAL OF TEMPORARY PAVEMENT MARKING SHALL BE PAID FOR AS TEMPORARY PAVEMENT MARKING REMOVAL
- 9. PLACE CHANNELIZING DEVICES AND/OR TEMPORARY TRAFFIC BARRIER AT THE SAME LEVEL AS THE TRAVELING LANE OR SHOULDER PROFILE
- 10. THE CONTRACTOR SHALL PROVIDE AND INSTALL A MINIMUM OF SIXTEEN (16) WEIGHTED SAND BAGS ON EACH TYPE III BARRICADE USED. THIS WORK WILL NOT BE PAID FOR SEPARATELY BUT SHALL BE INCLUDED IN THE CONTRACT ITEMS OF WORK
- 11. ALL TRAFFIC CONTROL DEVICES (BARRELS, BARRICADES, PANELS, SIGNS, ETC.) SHALL BE IN NEW OR LIKE NEW CONDITION, WHEN DEVICES BECOME WORN, DIRTY, FADED, OR OTHERWISE DEEMED BY THE ENGINEER AS NO LONGER IN LIKE NEW CONDITION. THE DEVICES SHALL BE CLEANED, REFURBISHED, OR REPLACED, THIS WORK WILL NOT BE PAID FOR SEPARATELY BUT SHALL BE INCLUDED IN THE CONTRACT ITEMS OF WORK.
- 12. WHEN RELOCATE TEMPORARY CONCRETE BARRIER IS SPECIFIED, THE WALL SHALL BE REMOVED, STORAGE AND TRANSPORTATION TO AND FROM STORAGE, WHEN THE WALL IS NOT NEEDED FOR A TIME AS SHOWN ON THE STAGING PLANS. RELOCATED AND REINSTATED AT THE NEW LOCATION. THE REINSTALLATION REQUIREMENTS SHALL BE THE SAME AS THOSE FOR A NEW INSTALLATION. THIS SHALL BE PAID FOR AT THE CONTRACT UNIT PRICE PER FOOT FOR RELOCATE TEMPORARY CONCRETE BARRIER.
- 13. THE CONTRACTOR SHALL MAINTAIN ACCESS TO FIELD ENTRANCES AND RESIDENTIAL ENTRANCES AT ALL TIMES. SHOULD THE CONTRACTOR NEED TO TEMPORARILY CLOSE ONE OF THE ENTRANCES. THEY SHALL NOTIFY THE ENGINEER NO LATER THAN 48 HOURS IN ADVANCE OF THE CLOSURE.
- 14. ANY ADDITIONAL MAINTENANCE OF TRAFFIC SIGNS SPECIFIED IN THE PLANS WILL NOT MEASURED SEPARATELY FOR PAYMENT, BUT SHALL BE INCLUDED IN THE COST OF THE ASSOCIATED TRAFFIC CONTROL PAY ITEM

9 477 South Third Street Suite 270	USER NAME = ndp	DESIGNED -	REVISED -			TROY-O'FALLON ROAD OVER MILL CREEK	F.A.S. BTE	SECTION	COUNTY	TOTAL	HEET
Engineering Group, LLC		DRAWN - KKH	REVISED -	STATE OF ILLINOIS		CENEDAL NOTES	1937	18-00084-04-BR	MADISON	39	2
PROFESSIONAL REGISTRATIONS LICENSE NO.	PLOT SCALE = 2.0000 / in.	CHECKED - LDC	REVISED -	DEPARTMENT OF TRANSPORTATION		GENERAL NUIES			CONTRACT	NO. 97	55
Professional Engineering Group 20-5980586	PLOT DATE = 3/23/2021	DATE - 3/19/2021	REVISED -		SCALE:	SHEET 1 OF 1 SHEETS STA. TO STA.		ILLINOIS FED. A	ID PROJECT		

STAGING NOTES

STAGE 1

STAGE 2

STAGE 3

1. FOR STAGE 1. INSTALL TEMPORARY CONCRETE BARRIER (TCB) AND SHEET PILE AS NECESSARY. ONE WAY TRAFFIC CONTROLLED BY TEMPORARY BRIDGE SIGNALS PER IDOT STANDARD 701321 AND THESE PLANS. REMOVE WEST HALF OF BRIDGE AND CONSTRUCT PROPOSED WEST HALF OF THE BRIDGE AND PAVEMENT CONNECTOR. UPON COMPLETION OF THE WEST HALF OF THE BRIDGE, PAVEMENT CONNECTOR AND HMA SURFACE, THE CONTRACTOR SHALL CONSTRUCT THE PROPOSED AGGREGATE SHOULDER AND INSTALL THE PROPOSED GUARDRAIL FOR THE WEST HALF.

1. ONCE STAGE 1 IS COMPLETE, FOR STAGE 2, RELOCATE TEMPORARY CONCRETE BARRIER AND SHIFT TRAFFIC TO WEST TROY O FALLON ROAD (SOUTHBOUND) LANE, ONE WAY TRAFFIC AGAIN CONTROLLED BY TEMPORARY TRAFFIC SIGNALS PER IDOT STANDARD 701321 AND THESE PLANS. REMOVE EAST HALF OF THE BRIDGE AND CONSTRUCT EAST HALF OF THE BRIDGE AND PAVEMENT CONNECTOR. UPON COMPLETION OF THE EAST HALF OF THE BRIDGE, PAVEMENT CONNECTOR AND HMA SURFACE, THE CONTRACTOR SHALL CONSTRUCT THE PROPOSED AGGREGATE SHOULDER AND INSTALL THE PROPOSED GUARDRAIL FOR THE EAST HALF.

2. ONCE STAGE 2 IS COMPLETE. REMOVE TCB AND TEMPORARY SIGNALS AT EACH LOCATION AND INSTALL TEMP PAVEMENT MARKING IN EXISTING TWO LANE CONFIGURATION

1. PERMANENT STRIPING TO BE PLACED UNDER IDOT STANDARD 701311 AND THESE PLANS.

2. CLEANUP AND MISCELLANEOUS WORK TO COMPLETE PROJECT. TRAFFIC CONTROLLED BY IDOT STANDARDS AND THESE PLANS AS NECESSARY

LOCATION(S):	ROADWAY	ROADWAY
MIXTURE USE(S):	SURFACE	BINDER
PG:	PG 64-22	PG 64-22
DESIGN AIR VOIDS:	4.0% @ N70	4.0% @ N70
MIXTURE COMPOSITION	IL 9.5	IL 19.0
FRICTION AGGREGATE:	D	
MIXTURE WEIGHT:	QC/QA	QC/QA

HOT-MIX ASPHALT MIXTURE REQUIREMENTS

CODE NO.		ITEM	UNIT	TOTAL QUANTITY			
20400800	FURNISHED EXCAV	ATION	CU YD	100			
25000305	SEEDING, CLASS	ЗА	ACRE	0.2			
25000400	NITROGEN FERTIL	IZER NUTRIENT	POUND	11			
. 25000500	PHOSPHORUS FERT	ILIZER NUTRIENT	POUND	11			
25000600	POTASSIUM FERTI	LIZER NUTRIENT	POUND	11			
			50 VP				
25100630	EROSION CONTROL	BLANKET	SQ YD	562			
28000250	TEMPORARY EROSI	ON CONTROL SEEDING	POUND	12			
28000400	PERIMETER EROSI	ON BARRIER	FOOT	465			
28100109	STONE RIPRAP, C	LASS A5	SQ YD	284			
28200200	FILTER FABRIC		SQ YD	284			
40600290	BITUMINOUS MATE	RIALS (TACK COAT)	POUND	331			
40604062	HOT-MIX ASPHALT	SURFACE COURSE, IL-9.5, MIX "D", N70	TON	61			
42000070	PAVEMENT CONNEC	TOR (HMA) FOR BRIDGE APPROACH SLAB	SQ YD	105			
44000100	PAVEMENT REMOVA	L	SQ YD	253			
A SPECIALTY							
** SPECIAL P - REVISE - KKH REVISE - LDC REVISE	ROVISION 5	STATE OF ILLINOIS DEPARTMENT OF TRANSPORTATION		FALLON ROAD C	DVER MILL CREEK UANTITIES	F.A. S. RTE. 1937 18-00084	516615 1181

 Kaskaskia
 Engineering Group, LLC
 Engineering Group, LLC
 Montplant
 Montpl USER NAME = ndp PLOT SCALE = 20.0000 ' / in. PLOT DATE = 3/23/2021

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	DDE IO.	ITEM	UNIT	TOTAL QUANTIT
481	00500	AGGREGATE SHOULDERS, TYPE A 6"	SQ YD	224
501	00100	REMOVAL OF EXISTING STRUCTURES	EACH	1
				-
	00100	STRUCTURE EXCAVATION	CU YD	184
·			· · · · · ·	
503	00225	CONCRETE STRUCTURES	CU YD	75.0
503	00255	CONCRETE SUPERSTRUCTURE	CU YD	122.0
503	00300	PROTECTIVE COAT	SQ YD	30
503	01350	CONCRETE SUPERSTRUCTURE (APPROACH SLAB)	CU YD	111.2
505	00105	FURNISHING AND ERECTING STRUCTURAL STEEL	L SUM	1
505	00505	STUD SHEAR CONNECTORS	EACH	1,422
508	00205	REINFORCEMENT BARS, EPOXY COATED	POUND	77,640
508	00515	BAR SPLICERS	EACH	589
<u>ک</u> 509	01050	STEEL RAILING, TYPE SM	FOOT	164
512	01600	FURNISHING STEEL PILES HP12X53	FOOT	375
1				

-5 ⁻¹		Т						F.A.S.	CECTION .	COUNTY TO	OTAL SHEET
E a	Valzalra lria Suin 170	USER NAME = ndp	DESIGNED -	REVISED -			TROY-O'FALLON ROAD OVER MILL CREEK	RTE.	SECTION	SHI	IEETS NO.
ă₩	NASKASKIA Genera Illanis 41194		DRAWN - KKH	REVISED -	STATE OF ILLINOIS		SUMMARY OF QUANTITIES	1937	18-00084-04-BR	MADISON 3	39 4
S S S S S S S S S S S S S S S S S S S	ROFEGIONAL REGISTRATIONS LICENSE NO.	PLOT SCALE = 20.0000 ' / in.	CHECKED - LDC	REVISED -	DEPARTMENT OF TRANSPORTATION		SUMIWART OF QUANTITIES			CONTRACT NO	O. 97755
8 E	Hinois Professional Design Furn. 154,014773 Professional Engineering Group. 24-5050556	PLOT DATE = 3/23/2021	DATE - 3/19/2021	REVISED -		SCALE:	SHEET 2 OF 5 SHEETS STA. TO STA.		ILLINOIS FED	AID PROJECT	

51 51 52 52 52 53 58 58 58 58 58 58 58 58 58 58 58 58 58	A SPECIALTY ITEM *** SPECIAL PROVISION REVISED - REVISED - REVISED - REVISED - STATE OF ILLINOIS DEPARTMENT OF TRANSPORTATION		ALLON ROAD OVER MILL CREEK UMMARY OF QUANTITIES OF 5 SHEETS STA. TO STA.	F.A.S. RTE. SECTION COUNTY 1937 18-00084-04-BR MADISON CONTRA ILLINOIS FED. AID PROJECT
SI SI <td>A SPECIALTY ITEM ** SPECIAL PROVISION REVISED - REVISED - STATE OF ILLINOIS</td> <td></td> <td></td> <td>1937 18-00084-04-BR MADISON</td>	A SPECIALTY ITEM ** SPECIAL PROVISION REVISED - REVISED - STATE OF ILLINOIS			1937 18-00084-04-BR MADISON
51 51 52 52 52 53 58 58 58 58 58 58 58 58 58 58 58 58 58	A SPECIALTY ITEM ** SPECIAL PROVISION REVISED -			F.A.S. SECTION COUNTY
51 51 52 52 52 53 58 58 58 58 58 58 58 58 58 58 58 58 58	△SPECIALTY ITEM			
51 51 51 52 52 52 53 54 58 58 58 58 58 58 58 58 58 59 59 59 59 59 59 63 63 63 63 63 63 64 63 64 63 64 63 64 63 64 65 66 67 67				
51 51 51 52 52 52 53 54 58 59 63 63 63 63 ** 67				
51 51 51 52 52 52 53 54 58 59 63 63 63 63 ** 67			1	
51 51 51 52 52 52 53 54 58 59 63 63 63 63 ** 67				
	67100100 MOBILIZATION	L SUM	1	
51 51 51 52 52 52 53 58 58 59 63 63 63 63 63 63 63 63	67000400 ENGINEER'S FIELD OFFICE, TYPE A	CAL MO	10	
51 51 51 52 52 52 53 58 58 59 63 63 63 63 63 63 63 63				
. . . .				
51 51 51 52 52 52 53 58 58 59 63 Δ 63 Δ 63 Δ	63200310 GUARDRAIL REMOVAL	FOOT	373	
51 51 52 52 52 53 54 58 58 59 4 63 Δ 63				
51 51 52 52 52 52 53 54 58 59 4 63 Δ 63				
51 51 52 52 52 53 54 58 58 59 4 63 Δ 63	Δ 63100167 TRAFFIC BARRIER TERMINAL, TYPE 1 (SPECIAL) TANGENT	EACH	4	
51 51 52 52 52 53 58 58 58 58 58 58 58 58 58 58 58 58 58				
51 51 52 52 52 52 53 58 58 58 58 58 58 58 58 58 58 58 58 58				
51 51 52 52 52 52 53 58 58 58 58 58 58 58 58 58 58 58 58 58				
51 51 52 52 52 52 52 52 52 52 52 52 52 52 52	A 63100087 TRAFFIC BARRIER TERMINAL, TYPE 6A	EACH	4	
51 51 52 52 52 52 52 52 52 52 52 52 52 52 52				
51 51 51 52 52 52 52 52 52 52 52 52 52 52 52 52				
51 51 52 52 52 52 52 52 52 52 52 52 52 52 52	△ 63000001 STEEL PLATE BEAM GUARDRAIL, TYPE A, 6 FOOT POSTS	FOOT	87.5	
51 51 52 52 52 58 58				
51 51 52 52 52 58 58				
51 51 52 52 52 58 58				
51	59100100 GEOCOMPOSITE WALL DRAIN	SQ YD	84	
51				
51				
51	58600101 GRANULAR BACKFILL FOR STRUCTURES	CU YD	150	
51				
51				
51	58100200 WATERPROOFING MEMBRANE SYSTEM	SQ YD	363	
		· · · · · · · · · · · · · · · · · · ·		
 51 52				
51	52200010 TEMPORARY SHEET PILING	SQ FT	306	
51				
51				
51	52100520 ANCHOR BOLTS, 1"	EACH	24	
51				
51	· · · ·			
	51500100 NAME PLATES	EACH	1	
	51204650 PILE SHOES	EACH	10	
51				
51				
	51203600 TEST PILE STEEL HP12X53	EACH	2	
	NO.	`	QUANTITI	
		UNIT,	TOTAL QUANT I TY	

Kaskaskia Engineering Group, LLC ZMETZBORK REGITTATIONS Inter Thermone From 1946/071

Defau

		CODE NO.	ITEM	UNIT	TOTAL QUANTITY
		70100405	TRAFFIC CONTROL AND PROTECTION, STANDARD 701321	EACH	1
		70100450	TRAFFIC CONTROL AND PROTECTION, STANDARD 701201	L SUM	1
	. **	70106500	TEMPORARY BRIDGE TRAFFIC SIGNALS	EACH	1
		70106700	TEMPORARY RUMBLE STRIPS	EACH	6
		70300220	TEMPORARY PAVEMENT MARKING - LINE 4"	FOOT	2,548
		70300280	TEMPORARY PAVEMENT MARKING - LINE 24"	FOOT	34
		70400100	TEMPORARY CONCRETE BARRIER	FOOT	300
		70400200	RELOCATE TEMPORARY CONCRETE BARRIER	FOOT	300
		70600251	IMPACT ATTENUATORS, TEMPORARY (NON- REDIRECTIVE, NARROW), TEST LEVEL 3	EACH	4
ς.	Δ	72400500	RELOCATE SIGN PANEL ASSEMBLY - TYPE A	EACH	1
	۵	72501000	TERMINAL MARKER - DIRECT APPLIED	EACH	4
	Δ	73000100	WOOD SIGN SUPPORT	FOOT	15
	* * _	78000200	THERMOPLASTIC PAVEMENT MARKING - LINE 4"	FOOT	1,844
	Δ	78200005	GUARDRAIL REFLECTORS, TYPE A	EACH	10
	**	SPECIALTY SPECIAL P			
Kaskaskia Engineering Group, LLC Professed Parts France Meriting France Meriting France Meriting France Meriting France Meriting France Meriting France Meriting France Meriting France Meriting France PLOT SCALE = 20,0000 '/ in. PLOT DATE = 3/23/2021	DESIGNED - DRAWN - KKH CHECKED - LDC	REVISED REVISED REVISED	STATE OF ILLINOIS		D'FALLON ROAD (SUMMARY OF Q OF 5 SHEET

ER MILL CREEK		F.A.S. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
		1937	18-00084-04-BR	MADISON	39	6
NTITIES				CONTRAC	T NO. 9	7755
STA.	TO STA.		ILLINOIS	FED. AID PROJECT		

			CODE NO .		ITEM		UNIT	TOTAL QUANTITY
		Δ	782000	11 BARRIER WALL R	EFLECTORS, TYPE C		EACH	24
			783002	01 PAVEMENT MARK I	NG REMOVAL - GRINDING		SQ FT	628
	*	*	X70300	D5 TEMPORARY PAVE	MENT MARKING REMOVAL		SQ FT	925
		-	Z00463		NS FOR STRUCTURES 4"		FOOT	121
		#	Z00766	00 TRAINEES	· · · · · · · · · · · · · · · · · · ·		HOUR	1,000
		#	200766	04 TRAINEES TR	AINING PROGRAM GRADUATE		Hour	1,000
		-						
		-						
				TY ITEM 井 PROVISION 井	0042			
Kaskaskia Engineering Group, LLC Engineering Group, LLC Market Ranket Rank Market Ranket	DESIGNED - DRAWN - KKH CHECKED - LDC DATE - 3/1	н	REV REV	ISED - ISED - ISED - ISED -	STATE OF ILLINOIS DEPARTMENT OF TRANSPORTAT	FION SCALE:	:	FALLON ROAD ON SUMMARY OF QUA

ER MILL CI	REEK	F.A.S. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
NTITIES		1937	18-00084-04-BR	MADISON	39	7
MITTES				CONTRACT	NO. 9	7755
STA.	TO STA.		ILLINOIS FED.	AID PROJECT		

REMOVAL SCHEDULE

LOCATION			PAVEMENT REMOVAL	guardrail Removal	RELOCATE SIGN PANEL ASSEMBLY - TYPE A	Pavement Marking Removal - Grinding	
			(SQ YD)	(FOOT)	(EACH)	(SQ FT)	
M	AINLI	NE					
STATION		STATION					
193+00	-	193+50				21.7	
193+50	-	194+00				37.5	
194+00	-	194+50		30.4		37.5	
194+50	-	195+00		97.2		37.5	
195+00	-	195+50	122.8	58.6		54.2	
195+50	-	196+00				54.2	
196+00	-	196+50	55.7	25.0		54.2	
196+50	-	197+00	74.3	100.1	1.0	54.2	
197+00	-	197+50		60.9		54.2	
197+50	-	198+00				54.2	
198+00	-	198+50				54.2	
198+50	-	199+00				54.2	
199+00	-	199+50				54.2	
199+50	-	200+00				5.4	
OTAL			252.8	372.2	1.0	627.1	
DJUSTED TO	OTAL		253	373	1	628	

EARTHWORK SCHEDULE

LOCATION	EARTHWORK	EARTHWORK	FURNISHED
	(CUT)	(FILL)	EXCAVATION
	(SQ FT)	(SQ FT)	(CU YD)
MAINLINE			
194+18		0.0	
195+02		1.2	1.9
195+16		3.4	1.2
195+43		103.9	53.7
BRIDGE OMISSION			
196+25		51.6	
196+67		0.3	40.3
197+50		1.0	2.0
		TOTAL	99.1
		ADJ. TOTAL	100.0

ROADWAY SCHEDULE

LOCATION	BITUMINOUS MATERIALS (TACK COAT) (POUND)	HOT-MIX ASPHALT SURFACE COURSE, IL-9.5, MIX "D", N70 (TON)	HOT-MIX ASPHALT SURFACE COURSE, IL-9.5, MIX "D", N70 (TON)	HOT-MIX ASPHALT BINDER COURSE, IL-19.0, N70 (TON)	AGGREGATE SUBGRADE IMROVEMENT, 12" (SQ YD)	PAVEMENT CONNECTOR (HMA) FOR BRIDGE APPROACH SLAB (SQ YD)	AGGREGATE SHOULDERS, TYPE A, 6" (SQ YD)	STEEL PLATE BEAM GUARDRAIL, TYPE A, 6 FT POSTS (FOOT)	TRAFFIC BARRIER TERMINAL, TYPE 6A (EACH)	TRAFFIC BARRIER TERMINAL, TYPE 1 (SPECIAL TANGENT (EACH)	TERMINAL MARKER - DIRECT APPLIED) (EACH)	WOOD SIGN SUPPORT (FOOT)	THERMOPLASTIC PAVEMENT MARKING - LINE 4" (FOOT)	GUARDRAIL REFLECTORS TYPE A (EACH)
MAINLINE	(POUND)		(10N)	(TON)	(30,10)	(50 10)	(30(10)	(FOOT)	(EACH)		(EACH)	(FOOT)	(FOOT)	(EACH)
STATION STATION														
193+00 - 193+50													65.0	
193+50 - 194+00							1.7				1.0		100.0	
194+00 - 194+50							33.6			1.0	1.0		100.0	1.0
194+50 - 195+00	73.2	17.4					42.8	38.5		1.0			100.0	1.0
195+00 - 195+50	123.5	18.7	5.8	29.2	52.2	52.2	35.4	11.5	2.0				162.5	2.0
195+50 - 196+00	100.0	21.8											162.5	1.0
196+00 - 196+50	9.9	2.5					20.0	37.5	2.0				162.5	2.0
196+50 - 197+00	23.5		5.8	29.2	52.2	52.2	42.3			1.0		15.0	162.5	2.0
197+00 - 197+50							38.2			1.0	1.0		162.5	1.0
197+50 - 198+00							9.2				1.0		162.5	
198+00 - 198+50													162.5	
198+50 - 199+00													162.5	
199+00 - 199+50													162.5	
199+50 - 200+00													16.1	
		(SEE NOTE 1)	(SEE NOTE 2)	(SEE NOTE 2)	(SEE NOTE 2)									
TOTAL	330.1	60.4	11.7	58.4	104.4	104.4	223.2	87.5	4.0	4.0	4.0	15.0	1843.6	10.0
ADJUSTED TOTAL	331	61.0	11.7	58.4	104.4	105	224	87.5	4	4	4	15	1844	10

THIS QUANTITY IS FOR THE HMA SURFACE ON THE BRIDGE APPROACH SLAB AND BRIDGE DECK. NOTE

NOTE 2: THESE QUANTITIES ARE FOR THE HMA SURFACE/BINDER AND AGGREGATE SUBGRADE ON THE PAVEMENT CONNECTOR AND ARE INCLUDED IN THE COST OF PAY ITEM "PAVEMENT CONNECTOR (HMA) FOR BRIDGE APPROACH SLAB." THEY ARE LISTED FOR CONTRACTORS INFORMATION ONLY AND WILL NOT BE MESURED SEPARATELY FOR PAYMENT.

0-1124.00 Million	THEY ARE LISTED FOR CONTRA			RATELY FOR PAYMENT.					
477 South Third Street	USER NAME = ndp	DESIGNED -	REVISED -			TROY-O'FALLON ROAD OVER MILL CREEK	F.A.S. BTE	SECTION	COUNTY TOTAL SHEET
Engineering Group UC		DRAWN - KKH	REVISED -	STATE OF ILLINOIS			1937	18-00084-04-BR	MADISON 39 8
PROFESSIONAL REGISTRATIONS LICENSE NO.	PLOT SCALE = 2.0000 ' / in.	CHECKED - LDC	REVISED -	DEPARTMENT OF TRANSPORTATION		SCHEDULE OF QUANTITIES			CONTRACT NO. 97755
Professional Engineering Group 20-5900586	PLOT DATE = 3/23/2021	DATE - 3/19/2021	REVISED -		SCALE:	SHEET 1 OF 2 SHEETS STA. TO STA.		ILLINOIS FED. A	AID PROJECT

EROSION	CONTROL	&	SEEDING	SCHEDULE

LOC	CATION	SEEDING, CLASS 3A	NITROGEN FERTILIZER NUTRIENT	PHOSPHORUS FERTILIZER NUTRIENT	POTASSIUM FERTILIZER NUTRIENT	EROSION CONTROL BLANKET	TEMPORARY EROSION CONTROL SEEDING	PERIMETER EROSION BARRIER
		(ACRE)	(POUND)	(POUND)	(POUND)	(SQ YD)	(POUND)	(FOOT)
MA	INLINE							
STATION	STATIO							
193+00	- 193+50							
193+50	- 194+00							
194+00	- 194+50	0.016	1.4	1.4	1.4	76.4	1.6	72.2
194+50	- 195+00	0.023	2.1	2.1	2.1	111.4	2.3	100.0
195+00	- 195+50	0.024	2.2	2.2	2.2	116.7	2.4	85.4
195+50	- 196+00)						
196+00	- 196+50	0.015	1.3	1.3	1.3	72.0	1.5	
196+50	- 197+00	0.024	2.1	2.1	2.1	115.2	2.4	48.4
197+00	- 197+50	0.014	1.3	1.3	1.3	69.5	1.4	100.3
197+50	- 198+00	1						57.7
198+00	- 198+50	1						
198+50	- 199+00							
199+00	- 199+50)						
199+50	- 200+00							
TOTAL		0.116	10.4	10.4	10.4	561.3	11.6	464.0
ADJUSTED TO	TAL	0.20	11	11	11	562	12	465

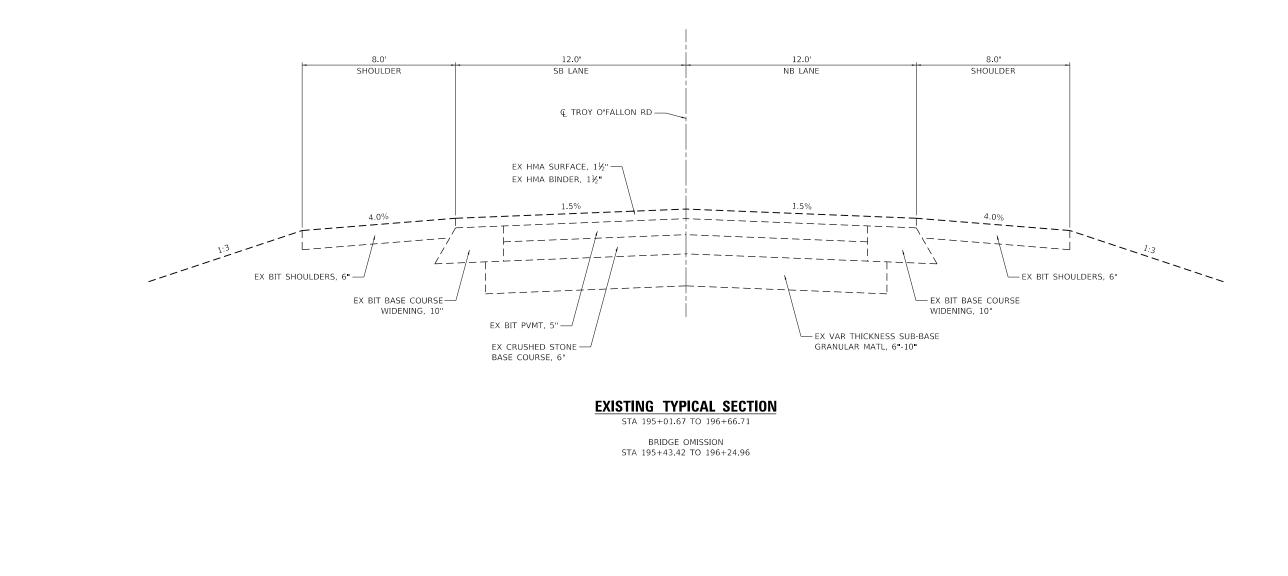
MAINTENCE OF TRAFFIC SCHEDULE

LC	DCATION	TEMPORARY PAVEMENT MARKING - LINE 4" (FOOT)	TEMPORARY PAVEMENT MARKING - LINE 24" (FOOT)	TEMPORARY CONCRETE BARRIER (FOOT)	RELOCATE TEMPORARY CONCRETE BARRIER (FOOT)	IMPACT ATTENUATORS, TEMP (NON- REDIRECTIVE, NARROW), TL 3 (EACH)	BARRIER WALL REFLECTORS, TYPE C (EACH)	TEMPORARY PAVEMENT MARKING REMOVAL (SQ FT)	LOCATION	TEMPORARY RUMBLE STRIPS (EACH)
M	AINLINE								MAINLINE	
STATION	STATIC	N							STATION	
193+00	- 193+5	0 114.5	11.0					60.4	171+21.4	1.0
193+50	- 194+0	0 199.3	12.0					90.5	176+21.4	1.0
194+00	- 194+5	0 213.0		3.0	3.0	2.0		70.9	186+21.4	1.0
194+50	- 195+0	0 200.0		50.2	50.2		4.0	66.7	206+54.7	1.0
195+00	- 195+5	0 200.0		50.0	50.0		4.0	66.7	211+54.7	1.0
195+50	- 196+0	0 200.0		50.0	50.0		4.0	66.7	216+54.7	1.0
196+00	- 196+5	0 200.0		50.0	50.0		4.0	66.7		
196+50	- 197+0	0 200.0		50.0	50.0		4.0	66.7		
197+00	- 197+5	0 200.0		46.8	46.8		4.0	66.7		
197+50	- 198+0	0 200.7				2.0		68.0		
198+00	- 198+5	0 200.8						66.9		
198+50	- 199+0	0 200.6						67.0		
199+00	- 199+5	0 200.2						66.7		
199+50	- 200+0	0 18.8	11.0					33.8		
TOTAL		2547.7	34.0	300.0	300.0	4.0	24.0	924.3	TOTAL	6.0
ADJUSTED T	OTAL	2548	34	300	300	4	24	925	ADJ. TOTAL	6

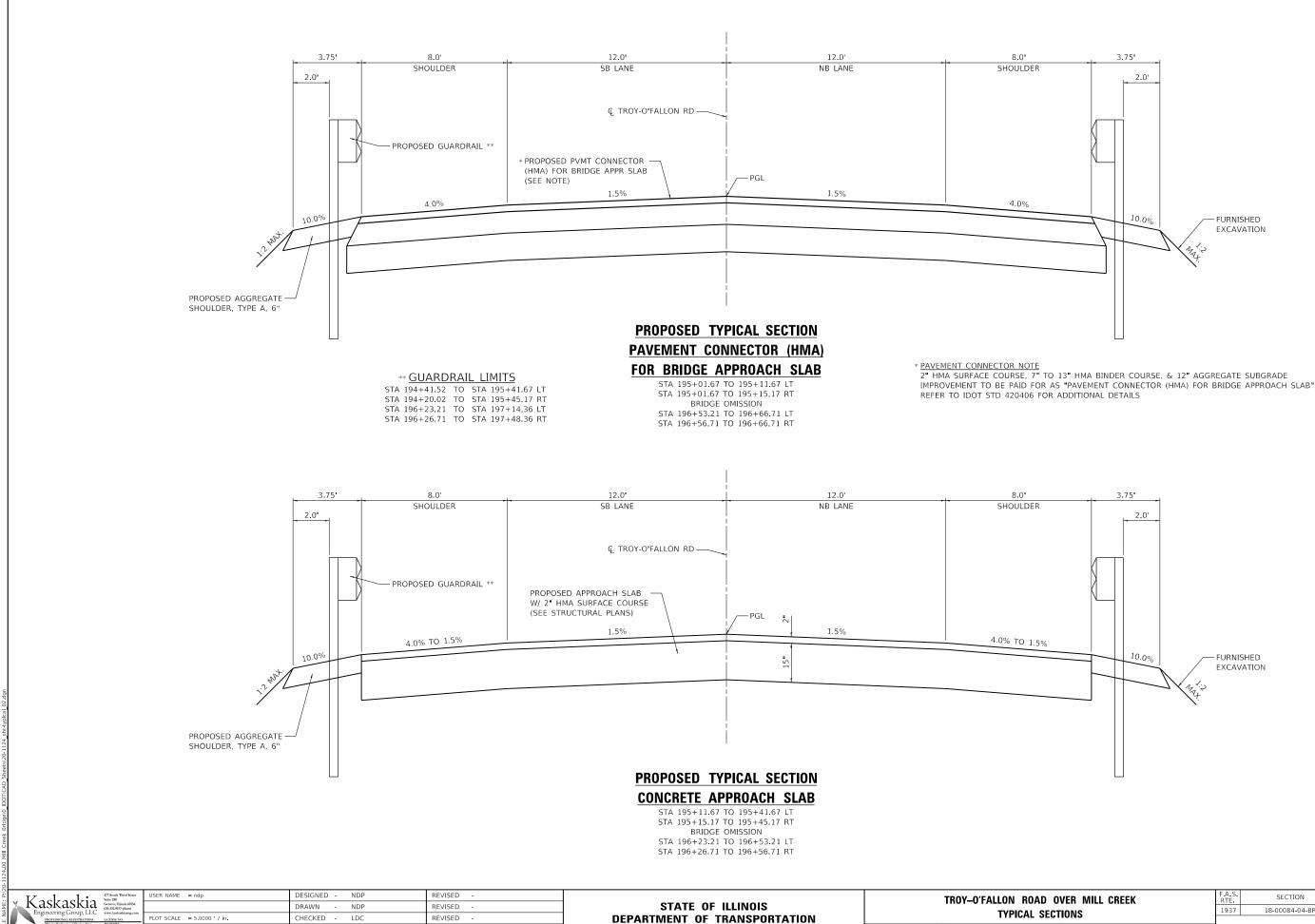
TEMPORARY RUMBLE STRIPS SHALL BE INSTALLED PER IDOT STANDARDS 701321 AND 701901. EACH LOCATION CONSISTS OF SIX (6) STRIPS SPACED FIVE (5) FEET APART FOR A TOTAL WIDTH OF 25 FEET AS DETAILED IN STANDARD 701901. SPACING OF THE TEMPORARY RUMBLE STRIP LOCATIONS SHALL BE AS NOTATED IN THIS SCHEDULE.

USER NAME = ndp	DESIGNED -	REVISED -			TROY-O'FALLON ROAD OVER MILL CREEK	F.A.S. RTE	SECTION	COUNTY	TOTAL SHEET SHEETS NO.
Creve, Ilinois 60134 Greve, Ilinois 60134 Geneva, Ilinois	DRAWN - KKH	REVISED -	STATE OF ILLINOIS		SCHEDULE OF QUANTITIES	1937	18-00084-04-BR	MADISON	39 9
PLOTESSIONAL RECENTRATIONS LICENSING. PLOT SCALE = 2.0000 / in. Historia Professional Designering Group 25-598956 PLOT DATE = 3/23/2021	CHECKED - LDC DATE - 3/19/2021	REVISED - REVISED -	DEPARTMENT OF TRANSPORTATION	SCALE:	SHEET 2 OF 2 SHEETS STA. TO STA.		ILLINOIS FED. 4		NO. 97755

NOTES



Efault	Kackackin 477 South Third Street	USER NAME = ndp	DESIGNED -	REVISED -			TROY-O'FALLON ROAD OVER MILL CREEK	F.A.S. RTE	SECTION	COUNTY	TOTAL SHEET SHEETS NO.
AME A	Engineering Group, LLC		DRAWN - NDP	REVISED -	STATE OF ILLINOIS		TYPICAL SECTIONS	1937	18-00084-04-BR	MADISON	39 10
	PROFESSIONAL RECENTRATIONS LICENSE NO. Illinois Professional Design Firm 184,004773	PLOT SCALE = 5.0000 / in	CHECKED - LDC	REVISED -	DEPARTMENT OF TRANSPORTATION		ITTICAL SECTIONS			CONTRACT	i NO. 97755
2 0	Professional Engineering Group 20-5080586	PLOT DATE = 3/23/2021	DATE - 3/19/2021	REVISED -		SCALE:	SHEET 1 OF 2 SHEETS STA. TO STA.		ILLINOIS FED. A	ID PROJECT	



PLOT DATE = 3/23/2021

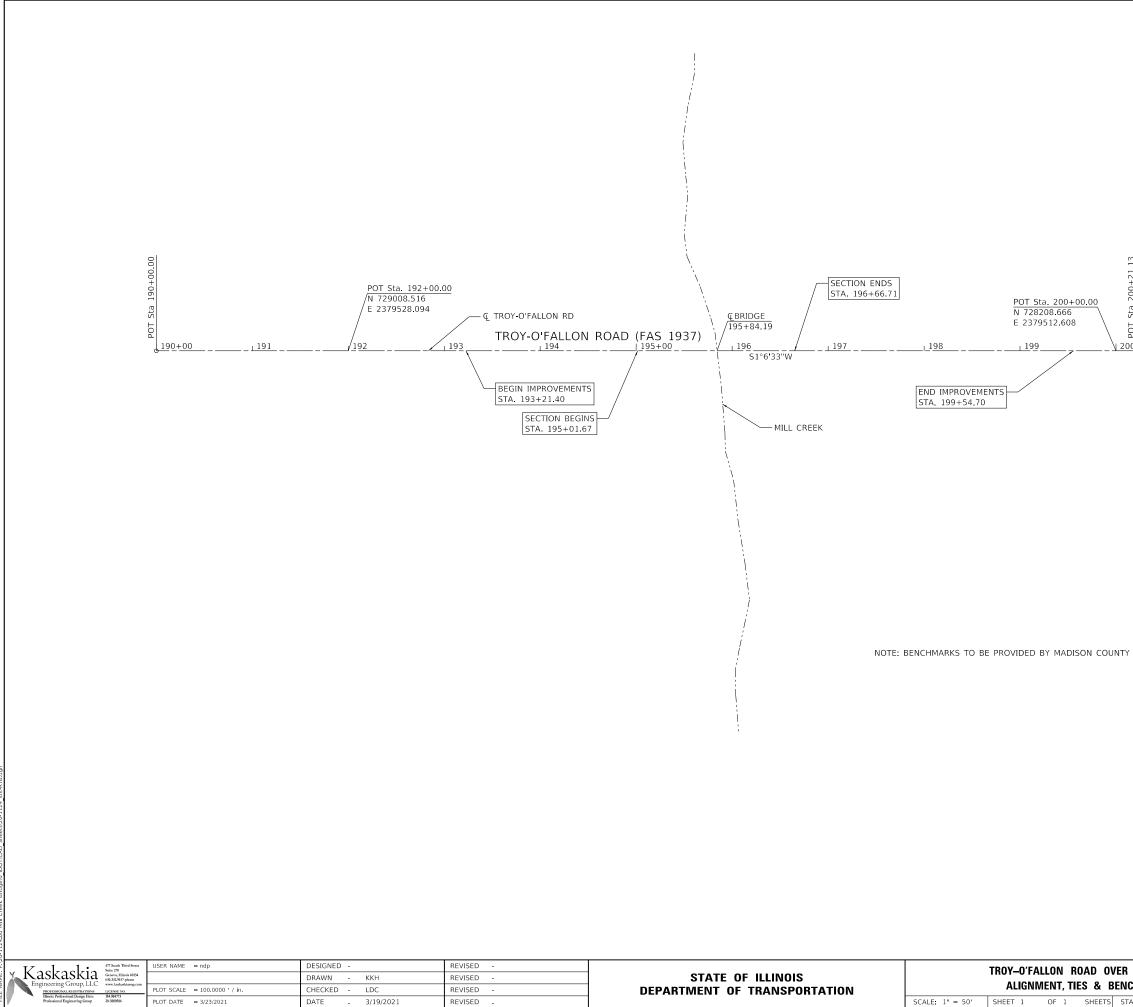
DATE

3/19/2021

REVISED

SCALE:

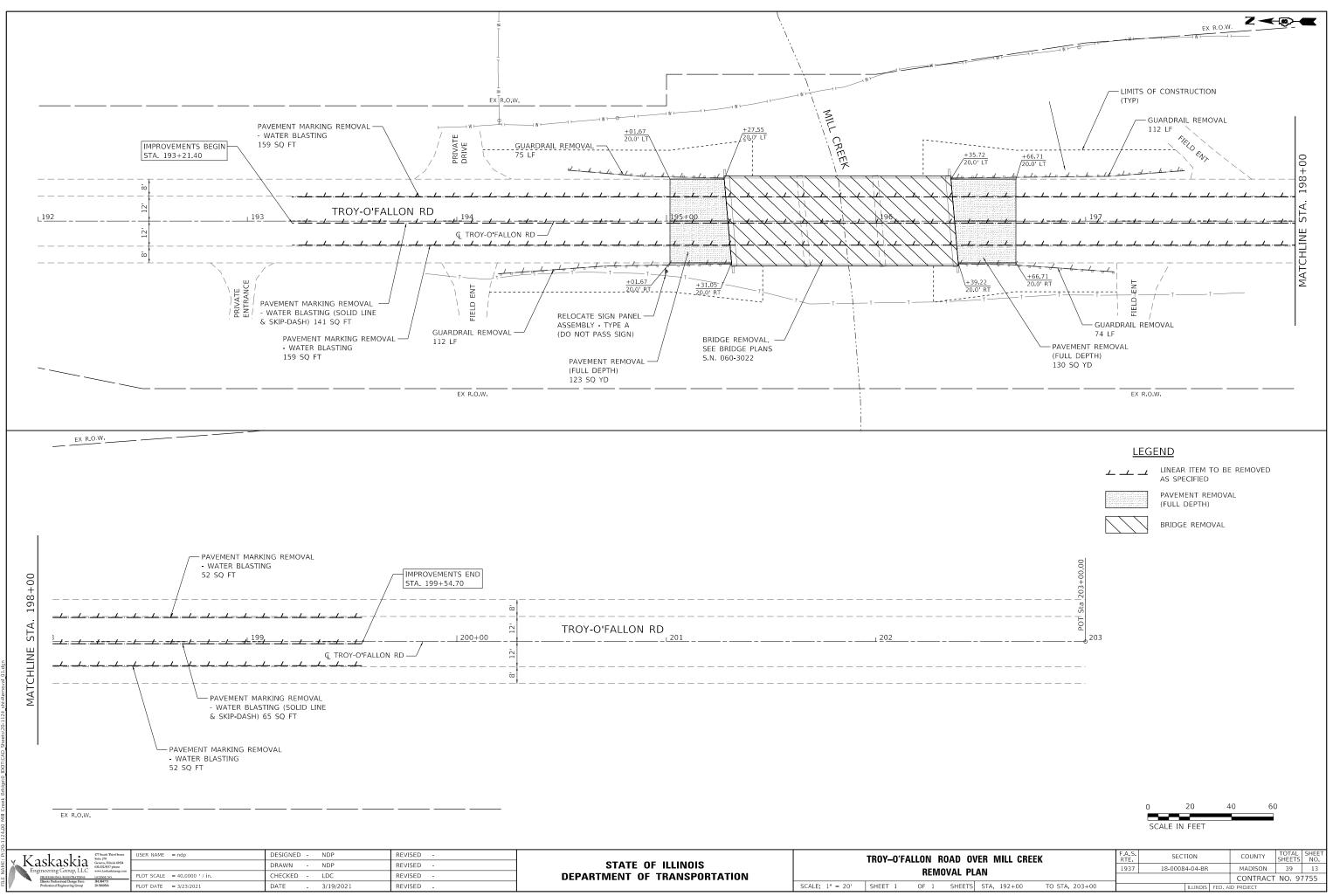
TROY-	O'FA	LLON	R	OAD OV	ER MIL	L CREEK	F.A.S. RTE	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
	TYPICAL SECTIONS							18-00084-04-BR	MADISON	39	11
				L JLUII	0113				CONTRACT	NO. 97	755
SHEET	2	OF	2	SHEETS	STA.	TO STA.		ILLINOIS FED. A	D PROJECT		



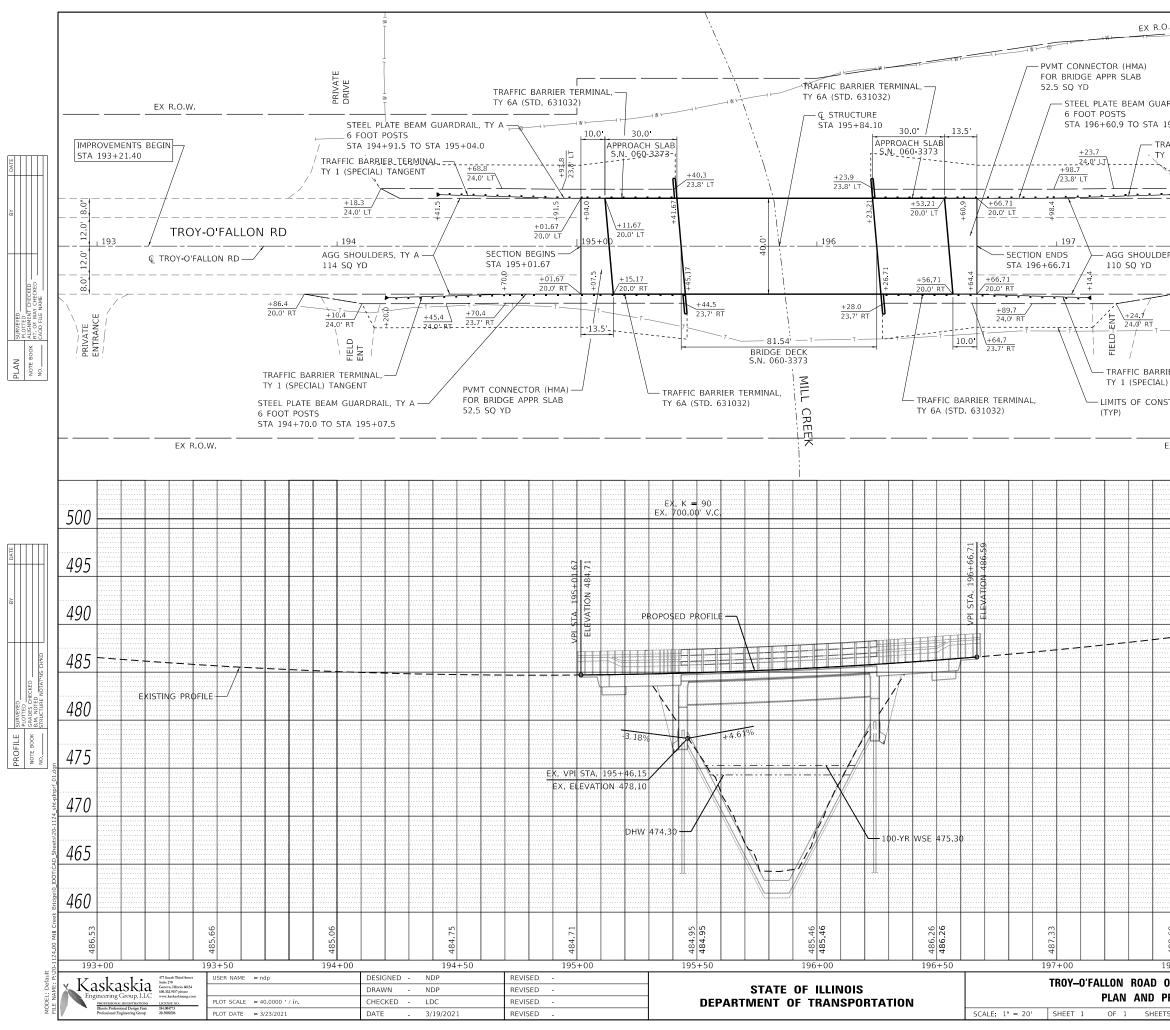


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0								CONTRACT	NO. 9	7755
TS	STA.	192+00	TO STA. 200+00			ILLINOIS	FED. A	ID PROJECT		

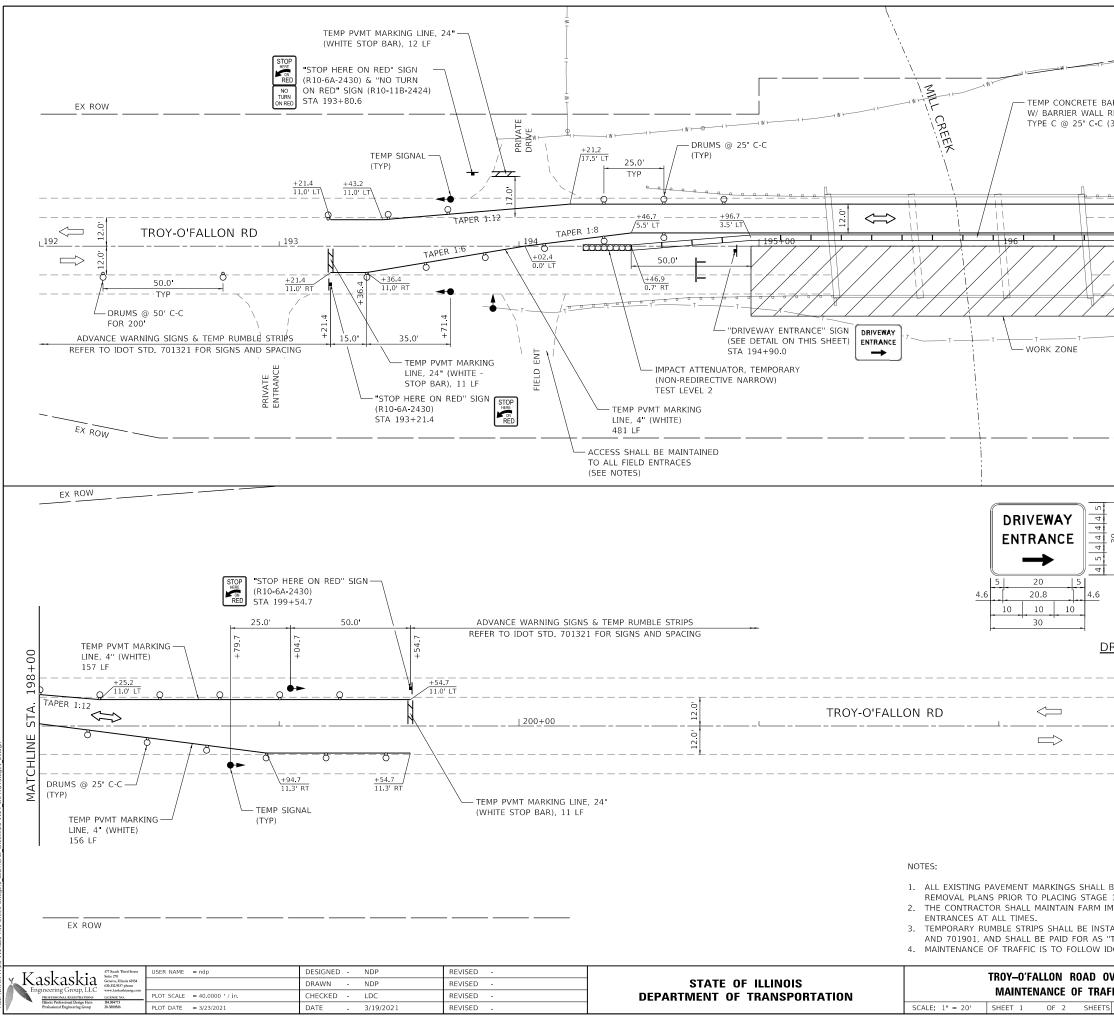
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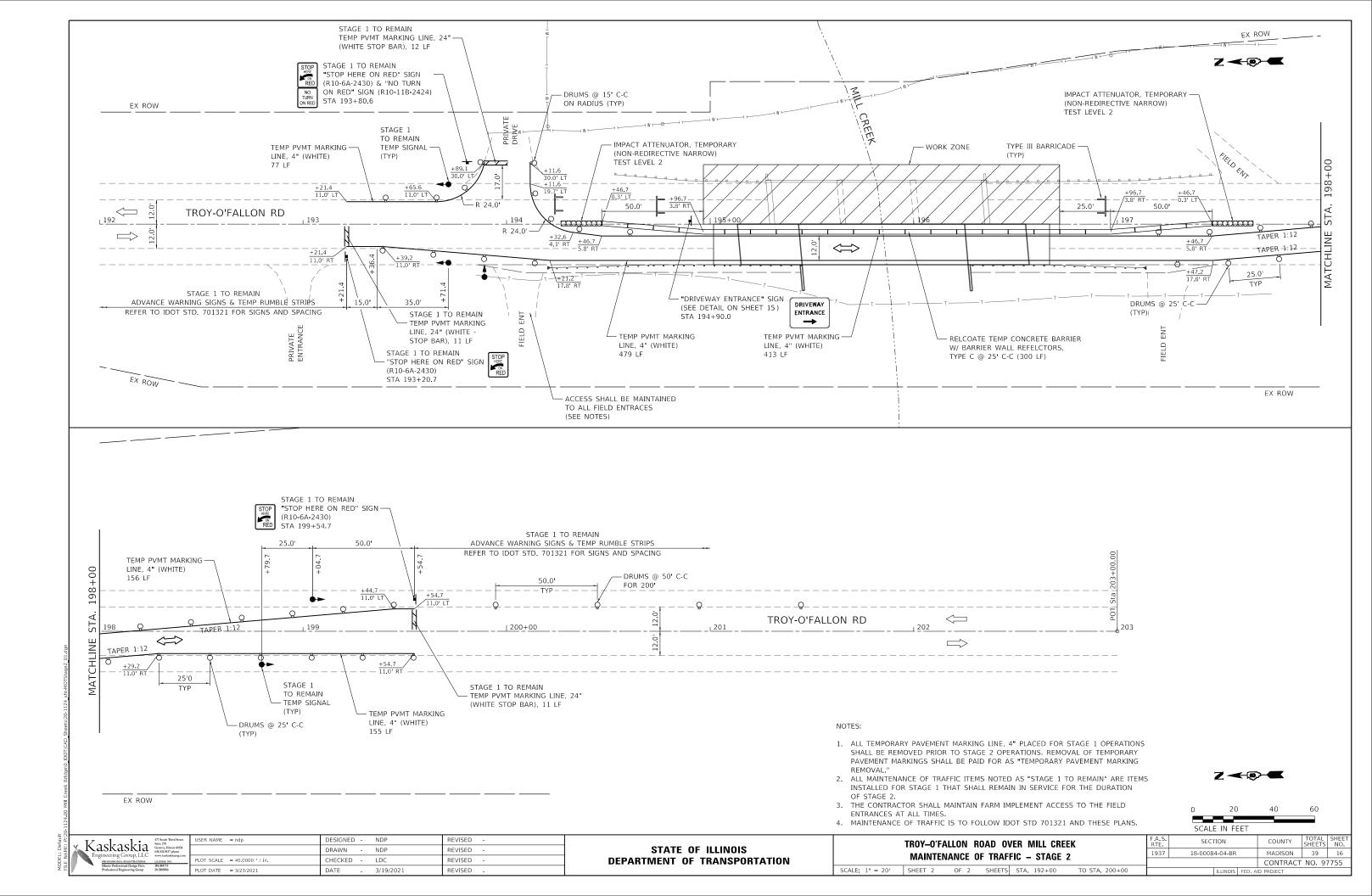
וי	AN			1937	18-0008	4-04-BR		MADISON	- 39		
								CONTRACT	NO.	97	75
S	STA.	192 + 00	TO STA. 203+00			ILLINOIS	FED. A	ID PROJECT			

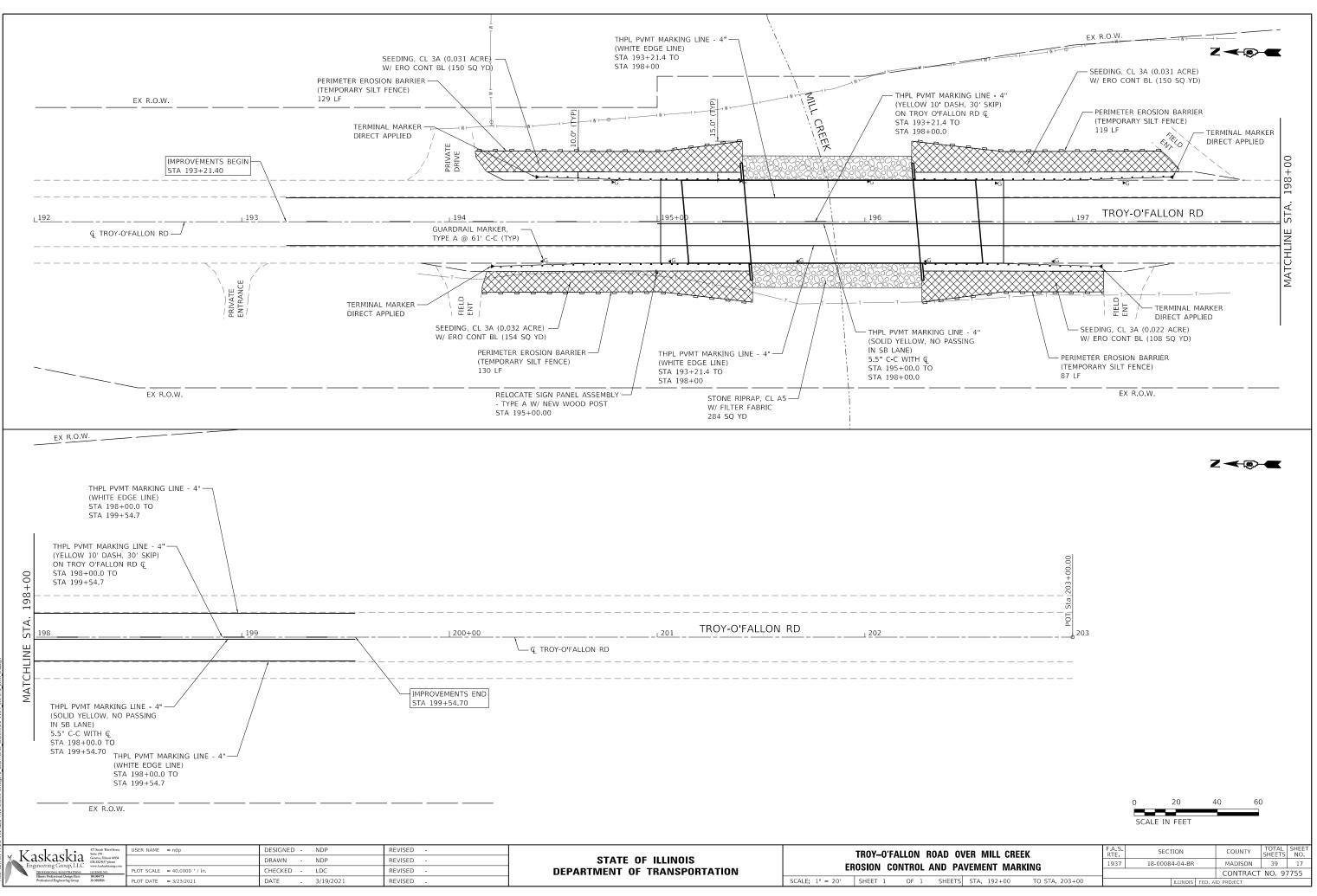


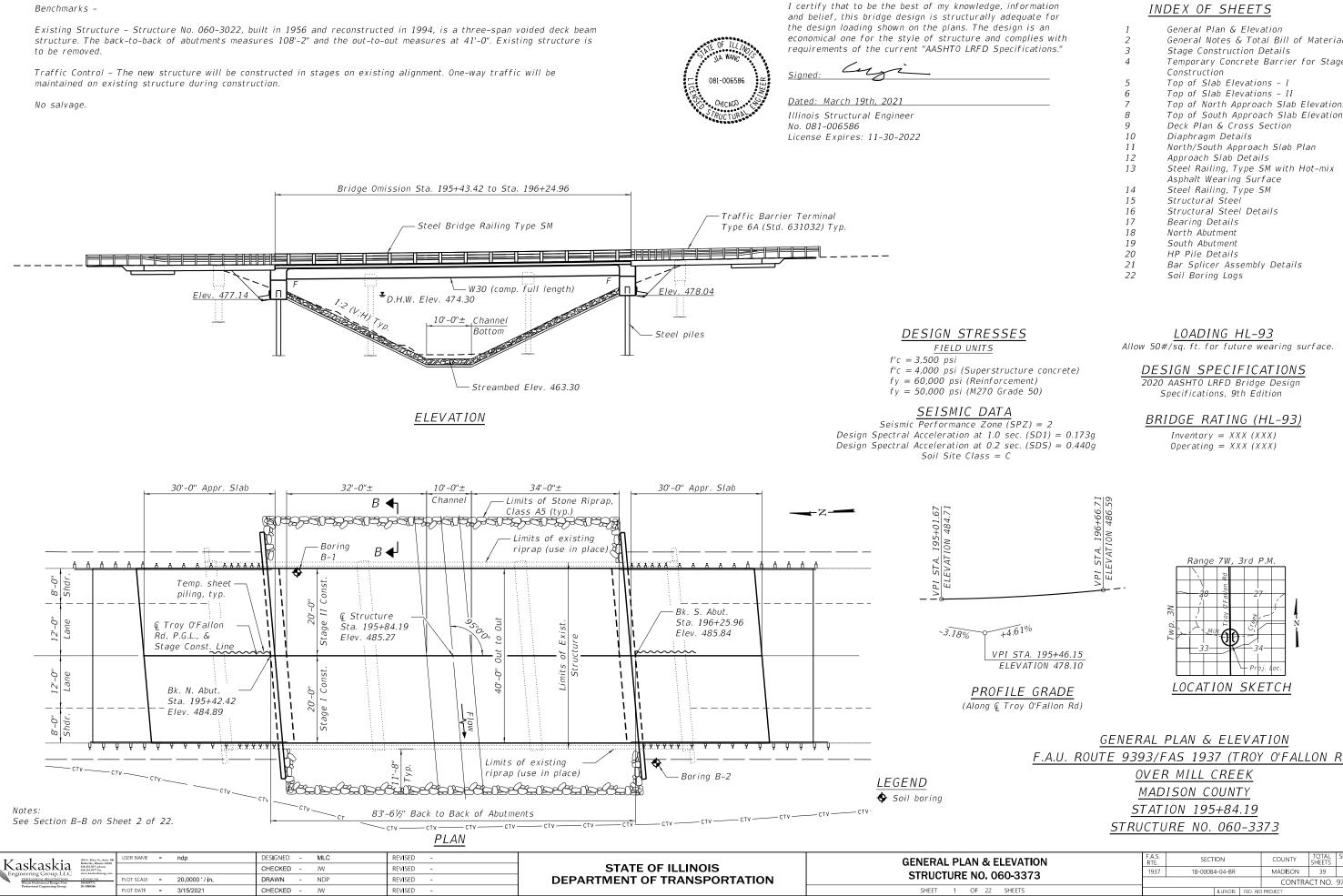
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ARRIER					
REFELCTORS, 300 LF)					
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480 LF					_
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		<u>46.5</u>			MAICHLINE
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DRIVEWAY" D; "ENTRANCE" D NOTES: 1. ALL DIMENSIONS ARE IN I 2. ONE SIGN SHALL BE USED PLANS AND SHALL UTILIZE 3. SIGN WILL NOT BE MEASU SHALL BE INCLUDED IN TH PROTECTION, STANDARD T	NCHES.) AT THE ED A RIG JRED SEF HE COST	LOCATION SPECIF HT HAND ARROW PARATELY FOR PAY OF "TRAFFIC CON	FIED IN THE (SHOWN). (MENT, BUT		
RIVEWAY ENTRANCE SIGN	DETAI	L			
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BE REMOVED AS SPECIFIED IN THE 1 TEMPORARY PAVEMENT MARKINGS.		7-			
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VER MILL CREEK	F.A.S. RTE	SECTION	COUNTY	TOTAL SHEETS	SHEE NO.
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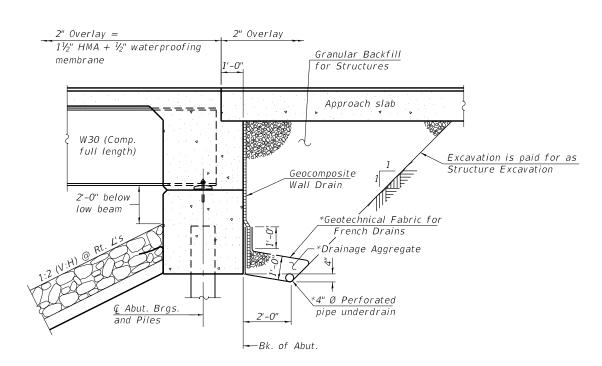


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1 2	General Plan & Elevation General Notes & Total Bill of Material
3	Stage Construction Details
4	Temporary Concrete Barrier for Stage Construction
5	Top of Slab Elevations – I
6	Top of Slab Elevations – II
7	Top of North Approach Slab Elevations
8	Top of South Approach Slab Elevations
9	Deck Plan & Cross Section
10	Diaphragm Details
11	North/South Approach Slab Plan
12	Approach Slab Details
13	Steel Railing, Type SM with Hot-mix
	Asphalt Wearing Surface
14	Steel Railing, Type SM
15	Structural Steel
16	Structural Steel Details
17	Bearing Details
18	North Abutment
19	South Abutment
20	HP Pile Details
21	Bar Splicer Assembly Details
22	Soil Boring Logs

<u>GENERAL PLAN & ELEVATION</u>									
F.A.U. ROUTE 9393/FAS 1937 (TROY O'FALLON RD)									
OVER MILL CREEK									
MADISON COUNTY									
STATION 195+84.19									
STRUCTURE NO. 060-3373									

1937 18-00084-04-BR MADISON 39 18 CONTRACT NO. 97755		F.A.S. RTE.				COUNTY	TOTAL SHEETS	SHEET NO.
CONTRACT NO. 97755			18-00084-04-BR		MADISON	39	18	
22 SHEFTS HUNOIS SED AID PROJECT	000-3373		CONTRACT NO. 97					
LEINOIS TED. ADTIOLOGY	2 SHEETS			ILLINOIS	FED. AID	PROJECT		



SECTION THRU INTEGRAL ABUTMENT (Horiz. dim. @ Rt. Ľs)

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

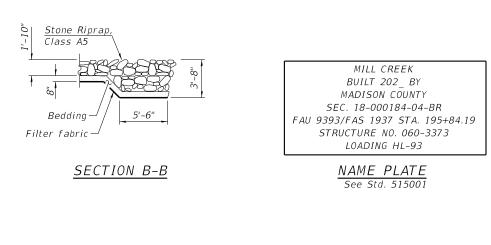
Note:

SER NAME =

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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).

The concrete headwalls shall be located within the riprap slope protection system between the wingwawll and the creek. An elbow or other fitting will be required at each outlet.



GENERAL NOTES

- 1. Fasteners shall be ASTM F3125 Grade A325 Type 1, mechanically galvanized bolts in painted or metallized areas and ASTM F3125 Grade A325 Type 3 weathering steel bolts in unpainted areas. Bolts $\frac{3}{4}$ in. Ø, holes $\frac{15}{16}$ in. Ø, unless otherwise noted.
- 2. The Inorganic Zinc Rich Primer/Acrylic/Acrylic Paint System shall be used for ship and field painting of new structural steel except where otherwise noted. The color of the final finish coat for all interior steel surfaces and exterior and bottom flange of the fascia beams shall be gray, Munsell No. 5B 7/1.
- 3. Calculated weight of Structural Steel = 95,050 (M270 Grade 50) 8.210 (M270 Grade 36)
- 4. No field welding is permitted except as specified in the contract documents.
- 5. Reinforcement bars designated (E) shall be epoxy coated.

6. Bearing seat surfaces shall be constructed or adjusted to the designated elevations within a tolerance of $\frac{1}{8}$ inch (0.01 ft). Adjustment shall be made either by grinding the surface or by shimming the bearings.

- 7. Layout of the slope protection system may be varied to suit ground conditions in the field as directed by the Engineer.
- 8. The embankment configuration shown shall be the minimum that must be placed and compacted prior to construction of the abutments.
- 9. All (embedded and separate) bearing plates, side retainers, anchor bolts, nuts, washers and pintles shall be galvanized accroding to AASHTO M111 or M232 as applicable.
- 10. Excavation behind existing abutment walls shall be performed to balance front and back soil pressure before removing the existing superstructure.
- 11. Backfill shall be placed behind the abutment after the superstructure has been poured and falsework removed. See Article 502.10 of the Standard Specifications.
- 12. The existing bridge plans are available from Madison County Highway Department.

= ndp	DESIGNED - MLC	REVISED -		GENERAL NOTES & TOTAL BILL OF MATERIAL	F.A.S. BTE SECTION	COUNTY TOTAL SHEET
	CHECKED - JW	REVISED -	STATE OF ILLINOIS	STRUCTURE NO. 060-3373	1937 18-00084-04-BR	MADISON 39 19
= 0.1667 ' / in.	DRAWN - NDP	REVISED -	DEPARTMENT OF TRANSPORTATION	SIRUCIURE NO. 060-3373	'	CONTRACT NO. 97755
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Drainage Area Flood Design Base Scour Design Max. Calc.

TOTAL DILL OF MAIL				
ITEM	UNIT	SUPER	SUB	TOTAL
Stone RipRap, Class A5	Sq. Yd.		284	284
Filter Fabric	Sq. Yd.		284	284
Hot-mix Asphalt Surface Course, IL-9.5FG, Mix "D", N70	Ton	61		61
Removal of Existing Structure	Each	1		1
Structure Excavation	Cu.Yd.		184	184
Concrete Structures	Cu.Yd.		75	75
Concrete Superstructure	Cu. Yd.	122.0		122.0
Protective Coat	Sq. Yd.	30		30
Concrete Superstructure (Approach Slab)	Cu. Yd.	111.2		111.2
Furnishing & Erecting Structural Steel	L. Sum	1		1
Stud Shear Connectors	Each	1,422		1,422
Reinforcement Bars, Epoxy Coated	Pound	69,100	8,540	77,640
Bar Splicers	Each	569	20	589
Steel Railing, Type SM	Foot	164		164
Furnishing Steel HP 12 x 53	Foot		375	375
Driving Piles	Foot		375	375
Test Pile Steel HP 12 x 53	Each		2	2
Pile Shoes	Each		10	10
Name Plates	Each	1		1
Anchor Bolts, 1"	Each	24		24
Temporary Sheet Piling	Sq. Ft.		306	306
Waterproofing Membrane System	Sq. Yd.	363		363
Granular Backfill for Structures	Cu. Yd.		150	150
Geocomposite Wall Drain	Sq. Yd.		84	84
Pipe Underdrains for Structures, 4"	Foot		121	121

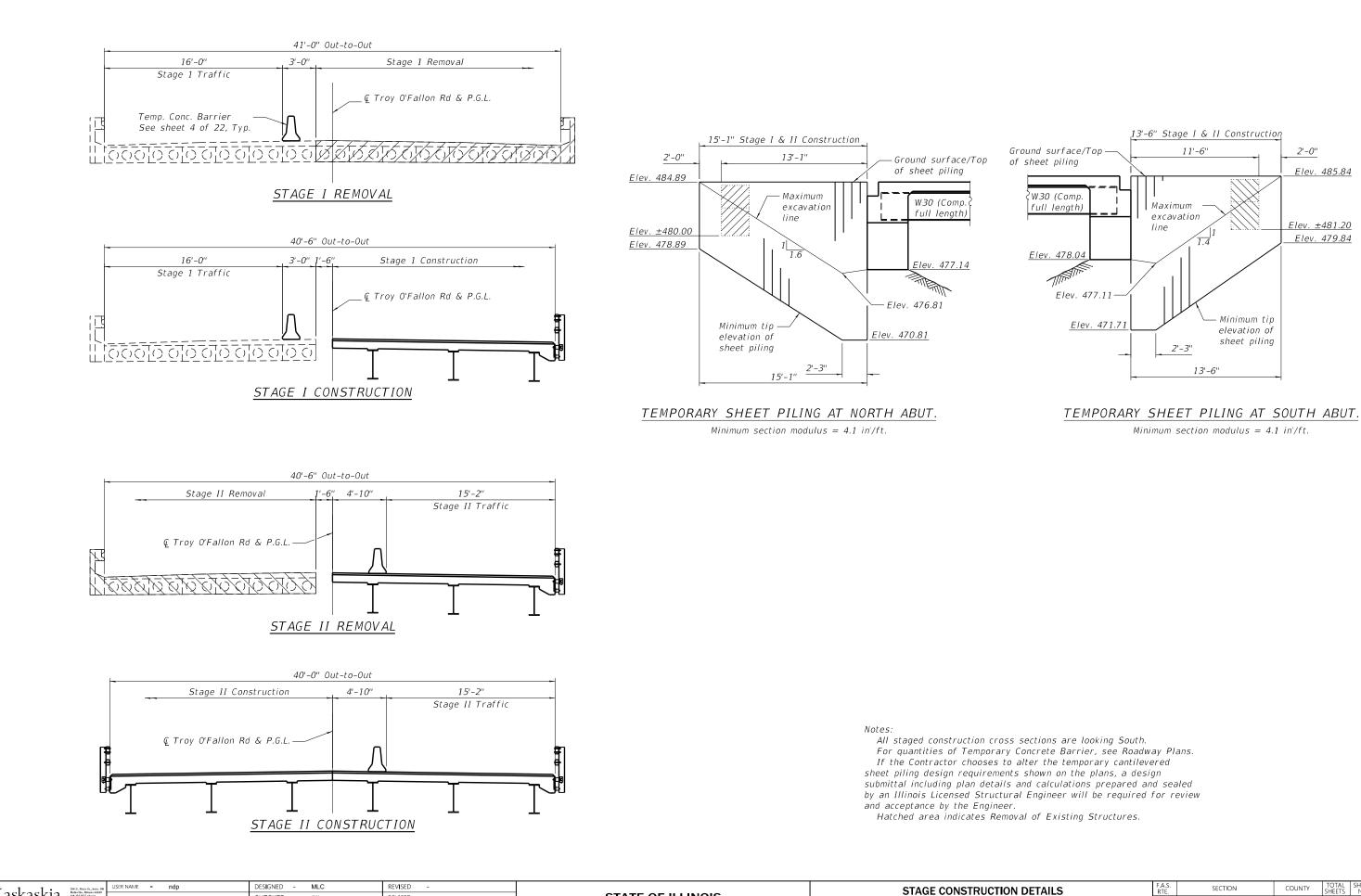
TOTAL BILL OF MATERIAL

WATERWAY INFORMATION

ea = 7.0) sq. mi		Low Grade Elev. 484.69 @ Sta. 194+81.90								
	Freq.	Q	Opening Ft ²		Nat.	Head – Ft.		Headwater E			
	Yr.	C.F.S.	Exist.	Prop.	H.W.E.	Exist.	Prop.	Exist.	Prop.		
	10	1570	218	225	471.7	0.4	0.2	472.1	471.9		
	50	2570	347	355	474.3	0.6	0.2	474.9	474.5		
	100	3030	398	410	475.3	0.6	0.2	475.9	475.5		
n Check	200	3507	436	462	476.2	0.7	0.2	476.9	476.4		
	500	4170	508	539	477.4	0.7	0.3	478.1	477.7		

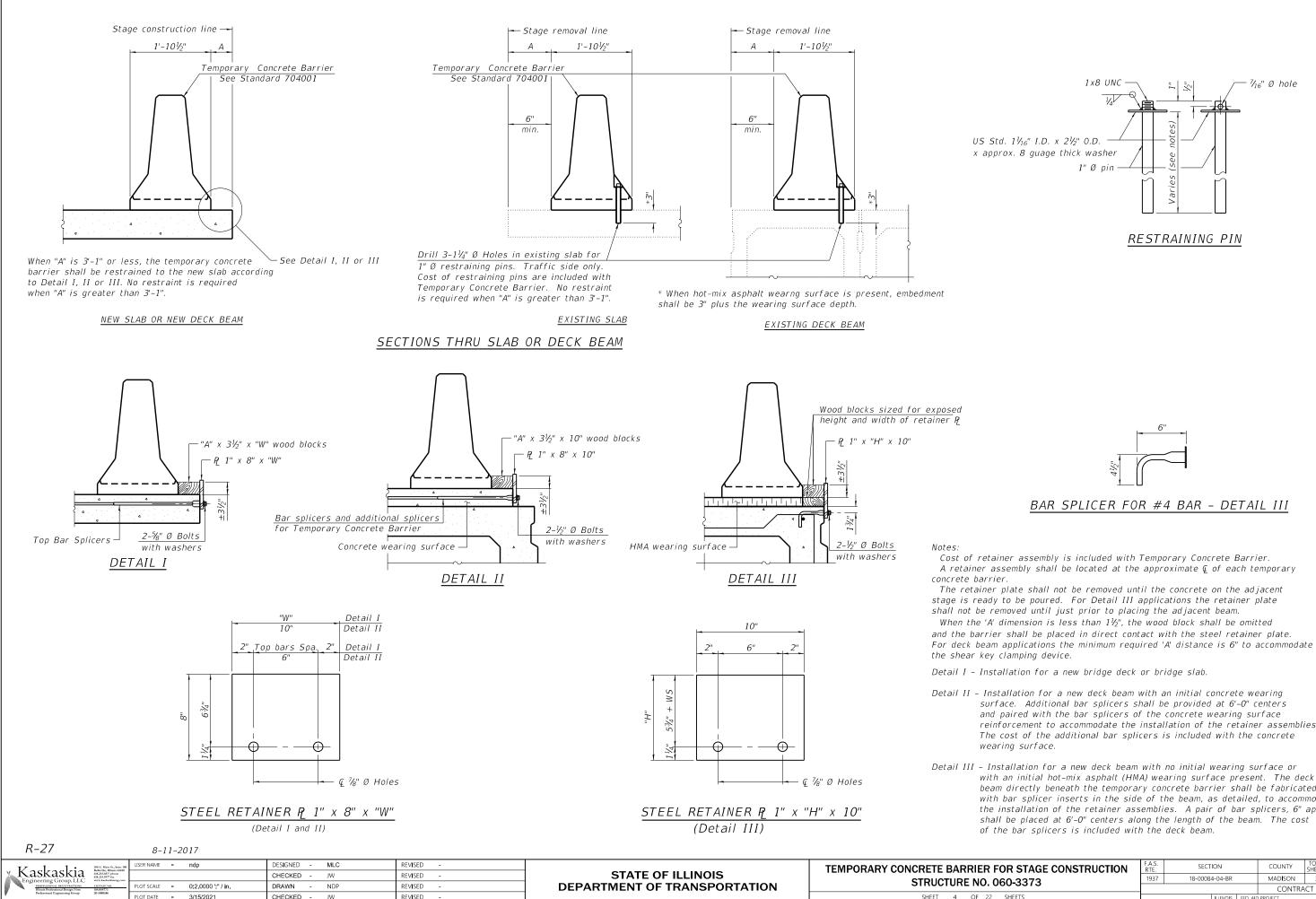
DESIGN SCOUR ELEVATION TABLE

Event / Limit	Design Sc)	
State	North Abut.	South Abut.	Item 113
Q100	477.14	478.04	
Q200	477.14	478.04	8
Design	477.14	478.04	0
Check	477.14	478.04	



efau	Vaclaadia 200 E. Main St., Suine 100 Believille, Minois 62220	USER NAME =	ndp	DESIGNED -	MLC	REVISED -		STAGE CONSTRUCTION DETAILS	F.A.S. RTE.	SECTION	COUNTY	TOTAL SHEET SHEETS NO.
AME	Engineering Group, LLC	origineering Group, J. C. www.kulashiong.com		STATE OF ILLINOIS	STRUCTURE NO. 060-3373	1937	18-00084-04-BR	MADISON	39 20			
	U Z PROFESSIONAL INCRESTRATIONS LICENSE NO. UIInois Professional Design Num 184.094773 Professional Environmenting Group 20-5940586	LOT SCALE =	8.0000 ' / in.	DRAWN -	NDP	REVISED -	DEPARTMENT OF TRANSPORTATION	STRUCTURE NO. 000-5375	_		CONTRA	ACT NO. 97755
ĕ Ē Ĺ	2/2021 - 9.10.55 AM	PLOT DATE =	3/15/2021	CHECKED -	JW	REVISED -		SHEET 3 OF 22 SHEETS		ILLINOIS FED. A	ID PROJECT	

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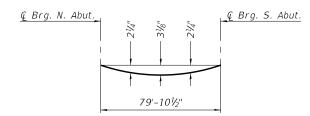
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SHEET 4 OF 22

reinforcement to accommodate the installation of the retainer assemblies.

beam directly beneath the temporary concrete barrier shall be fabricated with bar splicer inserts in the side of the beam, as detailed, to accommodate the installation of the retainer assemblies. A pair of bar splicers, 6" apart,

R FOR STAGE CONSTRUCTION	F.A.S. RTE.	SECT	SECTION		COUNTY	TOTAL SHEETS	SHEET NO.
. 060-3373	1937	18-00084-04-BR			MADISON	39	21
. 000-3373					CONTRA	CT NO.	97755
22 SHEETS			ILLINOIS	FED. AID	PROJECT		

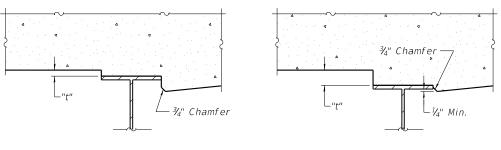


DEAD LOAD DEFLECTION DIAGRAM

(Includes weight of concrete and 2" overlay only)

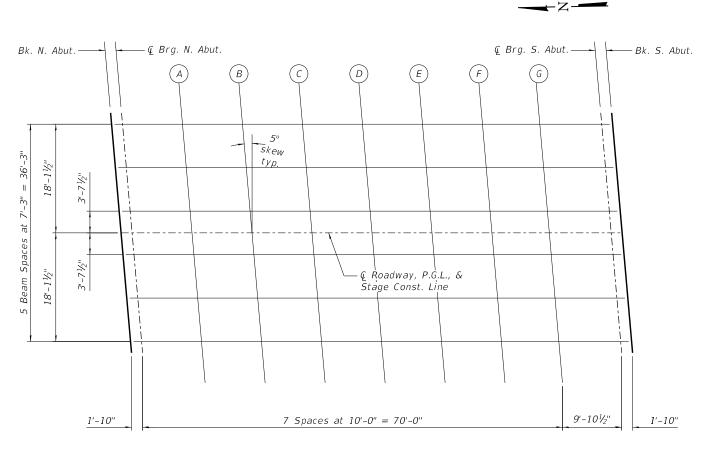
Note:

The above deflections are not to be used in the field if the engineer is working from the grade elevations adjusted for dead load deflections as shown on Sheet 6 of 22.



<u>At Minimum Fillet</u>

To determine "t": After all structural steel has been erected, elevations of the top flanges of the beams shall be taken at intervals shown in the Plan view below. These elevations subtracted from the "Theoretical Grade Elevations Adjusted for Dead Load Deflection" as shown on Sheet 6 of 22, minus slab thickness, equals the fillet heights "t" above the top flange of beams.



<u>PLAN</u>

efau	Valzalria 208 E. Main St., Suis 100 Bellevile, Minels 42220	USER NAME =	ndp	DESIGNED -	MLC	REVISED -		TOP OF SLAB ELEVATIONS - I	F.A.S. RTE.	SECTION	COUNTY	TOTAL SHEE SHEETS NC
AME	Engineering Group LLC			CHECKED -	JW	REVISED -	STATE OF ILLINOIS	STRUCTURE NO. 060-3373	1937	18-00084-04-BR	MADISON	39 22
DDEL	PROFESSIONAL REGISTRATIONS LICENSE NO. Illinois Professional Design Num 184.034773 Professional Engineering Group 20-5080566	PLOT SCALE =	16.0000 ' / in.	DRAWN -	RAWN - NDP REVISED - DEPARTMENT OF TRANSPORTATION					CONTRAC	.CT NO. 9775	
žĒ		PLOTDATE =	3/15/2021	CHECKED -	JW	REVISED -		SHEET 5 OF 22 SHEETS		ILLINOIS FED. AI	D PROJECT	

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<u>At Maximum Fillet</u>

FILLET HEIGHTS

		BEAM	<u>1</u>	
Location	Station	Offset	Theoretical Grade Elevations	Theoretical Grade Elevations Adjusted for Dead Load Deflection
BK. N. ABUT.	195+40.84	-18.13'	484.61	484.61
CL BRG. N. ABUT.	195+42.66	-18.13'	484.62	484.62
A B C D E F G	195+52.66 195+62.66 195+72.66 195+82.66 195+92.66 196+02.66 196+12.66	-18.13' -18.13' -18.13' -18.13' -18.13' -18.13' -18.13' -18.13'	484.70 484.78 484.88 484.98 485.09 485.22 485.37	484.80 484.97 485.12 485.24 485.34 485.41 485.47
CL BRG. S. ABUT. BK. S. ABUT.	196+22.54 196+24.37	-18.13' -18.13'	485.52 485.55	485.52 485.55

<u>BEAM 2</u>					BEAM 3				
Location	Station	Offset	Theoretical Grade Elevations	Theoretical Grade Elevations Adjusted for Dead Load Deflection	Location	Station	Offset	Theoretical Grade Elevations	Theoretical Grade Elevations Adjusted for Dead Load Deflection
BK. N. ABUT.	195+41.47	-10.88'	484.73	484.73	BK. N. ABUT.	195+42.11	-3.63'	484.84	484.84
CL BRG. N. ABUT.	195+43.30	-10.88'	484.74	484.74	CL BRG. N. ABUT.	195+43.93	-3.63'	484.85	484.85
A B C D E F G CL BRG, S. ABUT.	195+53.30 195+63.30 195+73.30 195+83.30 195+93.30 196+03.30 196+13.30 196+23.18	-10.88' -10.88' -10.88' -10.88' -10.88' -10.88' -10.88' -10.88'	484.81 484.89 484.99 485.10 485.21 485.34 485.49 485.64	484.91 485.08 485.23 485.36 485.46 485.53 485.59 485.64	A B C D E F G CL BRG, S, ABUT,	195+53.93 195+63.93 195+73.93 195+83.93 195+93.93 196+03.93 196+13.93 196+23.81	-3.63' -3.63' -3.63' -3.63' -3.63' -3.63' -3.63' -3.63'	484.92 485.01 485.11 485.22 485.33 485.46 485.60 485.76	485.03 485.20 485.35 485.48 485.57 485.65 485.70 485.76
BK. S. ABUT.	196+25.00	-10.88'	485.67	485.67	BK. S. ABUT.	196+25.64	-3.63'	485.79	485.79

<u>Ç ROADWAY, P.G.L., & STAGE CONSTRUCTION JOINT</u>							
Location	Station	Offset	Theoretical Grade Elevations	Theoretical Grade Elevations Adjusted for Dead Load Deflection			
BK. N. ABUT.	195+42.42	0.00'	484.89	484.89			
CL BRG. N. ABUT.	195+44.25	0.00'	484.90	484.90			
A B C D E F G	195+54.25 195+64.25 195+74.25 195+84.25 195+94.25 196+04.25 196+14.25	0.00' 0.00' 0.00' 0.00' 0.00' 0.00' 0.00'	484.98 485.07 485.16 485.27 485.39 485.52 485.66	485.08 485.25 485.41 485.54 485.63 485.71 485.76			
CL BRG. S. ABUT.	196+24.13	0.00'	485.81	485.81			
BK. S. ABUT.	196+25.96	0.00'	485.84	485.84			

	<u>BEAM 4</u>					<u>BEAM 5</u>				
Location	Station	Offset	Theoretical Grade Elevations	Theoretical Grade Elevations Adjusted for Dead Load Deflection		Location	Station	Offset	Theoretical Grade Elevations	Theoretical Grade Elevations Adjusted for Dead Load Deflection
BK. N. ABUT.	195+42.74	3.63'	484.84	484.84		BK. N. ABUT.	195+43.38	10.88'	484.74	484.74
CL BRG. N. ABUT.	195+44.57	3.63'	484.86	484.86		CL BRG. N. ABUT.	195+45.20	10.88'	484.75	484.75
A B C D E F G	195+54.57 195+64.57 195+74.57 195+84.57 195+94.57 196+04.57 196+14.57	3.63' 3.63' 3.63' 3.63' 3.63' 3.63' 3.63'	484.93 485.02 485.12 485.22 485.34 485.47 485.61	485.03 485.20 485.36 485.48 485.58 485.66 485.71		A B C D E F G	195+55.20 195+65.20 195+75.20 195+85.20 195+95.20 196+05.20 196+15.20	10.88' 10.88' 10.88' 10.88' 10.88' 10.88' 10.88'	484.82 484.91 485.01 485.12 485.24 485.37 485.51	484.93 485.10 485.25 485.38 485.49 485.56 485.61
CL BRG. S. ABUT.	196+24.45	3.63'	485.77	485.77		CL BRG. S. ABUT.	196+25.08	10.88'	485.67	485.67
BK. S. ABUT.	196+26.27	3.63'	485.80	485.80		BK. S. ABUT.	196+26.91	10.88'	485.70	485.70

<u>BEAM 6</u>						
Location	Station	Offset	Theoretical Grade Elevations	Theoretical Grade Elevations Adjusted for Dead Load Deflection		
BK. N. ABUT.	195+44.01	18.13'	484.63	484.63		
CL BRG. N. ABUT.	195+45.84	18.13'	484.65	484.65		
A B C D E F G	195+55.84 195+65.84 195+75.84 195+85.84 195+95.84 196+05.84 196+15.84	18.13' 18.13' 18.13' 18.13' 18.13' 18.13' 18.13'	484.72 484.81 484.91 485.02 485.14 485.27 485.41	484.83 484.99 485.15 485.28 485.38 485.46 485.51		
CL BRG. S. ABUT.	196+25.72	18.13'	485.57	485.57		
BK. S. ABUT.	196+27.54	18.13'	485.60	485.60		

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e fai	Valzaalra 2008 E. Main St., Swin: 100 Belleville. Blinets 62220	USER NAME = ndp	DESIGNED - MLC	REVISED -		TOP OF SLAB ELEVATIONS - II	F.A.S. RTE	SECTION	COUNTY TOTA	AL SHEET
O BA	Kaskaskia		CHECKED - JW	REVISED -	STATE OF ILLINOIS		1937	18-00084-04-BR	MADISON 39	9 23
	PROFESSIONAL INFGISTRATIONS LICENSE NO. Illinois Professional Design Plum 184.004773	PLOT SCALE = 0.1667 ' / in.	DRAWN - NDP	REVISED -	DEPARTMENT OF TRANSPORTATION	STRUCTURE NO. 060-3373		CONTRACT NO. 9		
Professional Engine	Professional Engineering Group 20-5080586	PLOT DATE = 3/15/2021	CHECKED - JW	REVISED -	SED -	SHEET 6 OF 22 SHEETS	ILLINOIS FED. AID PROJECT		AID PROJECT	
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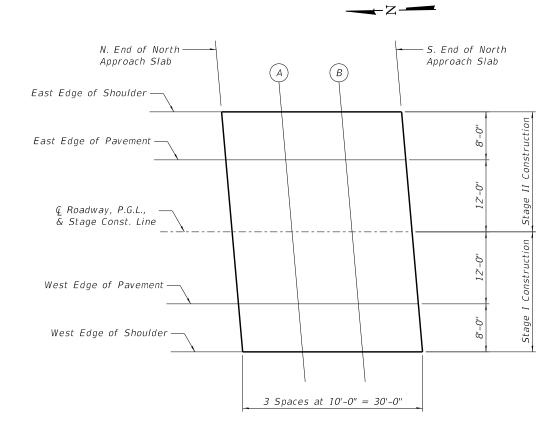
<u>Ç ROADWAY, P.G.L., & STAGE CONST. LINE</u>					
Location	Station	Offset	Theoretical Grade Elevations		
N. End of N. Appr. Slab.	195+13.42	0.00'	484.74		
A B	195+23.42 195+33.42	0.00' 0.00'	484.78 484.84		
S. End of N. Appr. Slab.	195+43.42	0.00'	484.90		

WEST EDGE OF PAVEMENT					
Location	Station	Offset	Theoretical Grade Elevations		
N. End of N. Appr. Slab.	195+14.47	12.00'	484.57		
A B	195+24.47 195+34.47	12.00' 12.00'	484.61 484.66		
S. End of N. Appr. Slab.	195+44.47	12.00'	484.73		

WEST EDGE OF SHOULDER						
Location	Station	Offset	Theoretical Grade Elevations			
N. End of N. Appr. Slab.	195+15.17	20.00'	484.45			
A B	195+25.17 195+35.17	20.00' 20.00'	484.49 484.55			
S. End of N. Appr. Slab.	195+45.17	20.00'	484.61			

EAST EDGE OF SHOULDER						
Location	Station	Offset	Theoretical Grade Elevations			
N. End of N. Appr. Slab.	195+11.67	-20.00'	484.44			
A B	195+21.67 195+31.67	-20.00' -20.00'	484.48 484.53			
S. End of N. Appr. Slab.	195+41.67	-20.00'	484.59			

EAST EDGE OF PAVEMENT						
Location	Station	Offset	Theoretical Grade Elevations			
N. End of N. Appr. Slab.	195+12.37	-12.00'	484.56			
A B	195+22.37 195+32.37	-12.00' -12.00'	484.60 484.65			
S. End of N. Appr. Slab.	195+42.37	-12.00'	484.71			



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efat	Valzasle 208 E. Main St., Suise 100 Belevile, Illineis 5223	USER NAME =	ndp	DESIGNED -	MLC	REVISED -		TOP OF NORTH APPROACH SLAB ELEVATIONS	F.A.S. BTE	SECTION	COUNTY	TOTAL SHEET
- U H	Kaskaskia Engineering Group LLC			CHECKED -	JW	REVISED -	STATE OF ILLINOIS	STRUCTURE NO. 060-3373	1937	18-00084-04-BR	MADISON	39 24
	PROFESSIONAL INCOSTRATIONS LICENSE NO. Illinois Professional Design Firm 184.094773	PLOT SCALE =	16.0000 ' / in.	DRAWN -	NDP	REVISED -	DEPARTMENT OF TRANSPORTATION	STRUCTURE NO. 060-3373			CONTRA	ACT NO. 97755
₩ E L	Processional Engineering Group 20-505056	PLOT DATE =	3/15/2021	CHECKED -	JW	REVISED -		SHEET 7 OF 22 SHEETS		ILLINOIS FED. A	ID PROJECT	

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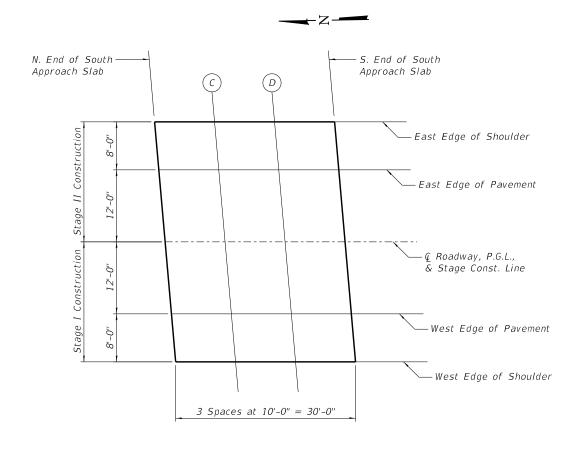
<u>Ç ROADWAY, P.G.L., & STAGE CONST. LINE</u>										
Location	Station	Offset	Theoretica Grade Elevations							
N. End of S. Appr. Slab.	196+24.96	0.00'	485.83							
C D	196+34.96 196+44.96	0.00' 0.00'	485.99 486.17							
S. End of S. Appr. Slab.	196+54.96	0.00'	486.35							

WEST EDGE OF PAVEMENT									
Location	Station	Offset	Theoretical Grade Elevations						
N. End of S. Appr. Slab.	196+26.01	12.00'	485.66						
C D	196+36.01 196+46.01	12.00' 12.00'	485.83 486.01						
S. End of S. Appr. Slab.	196+56.01	12.00'	486.19						

WEST EDGE OF SHOULDER										
Location	Station	Offset	Theoretical Grade Elevations							
N. End of S. Appr. Slab.	196+26.71	20.00'	485.55							
C D	196+36.71 196+46.71	20.00' 20.00'	485.72 485.90							
S. End of S. Appr. Slab.	196+56.71	20.00'	486.09							

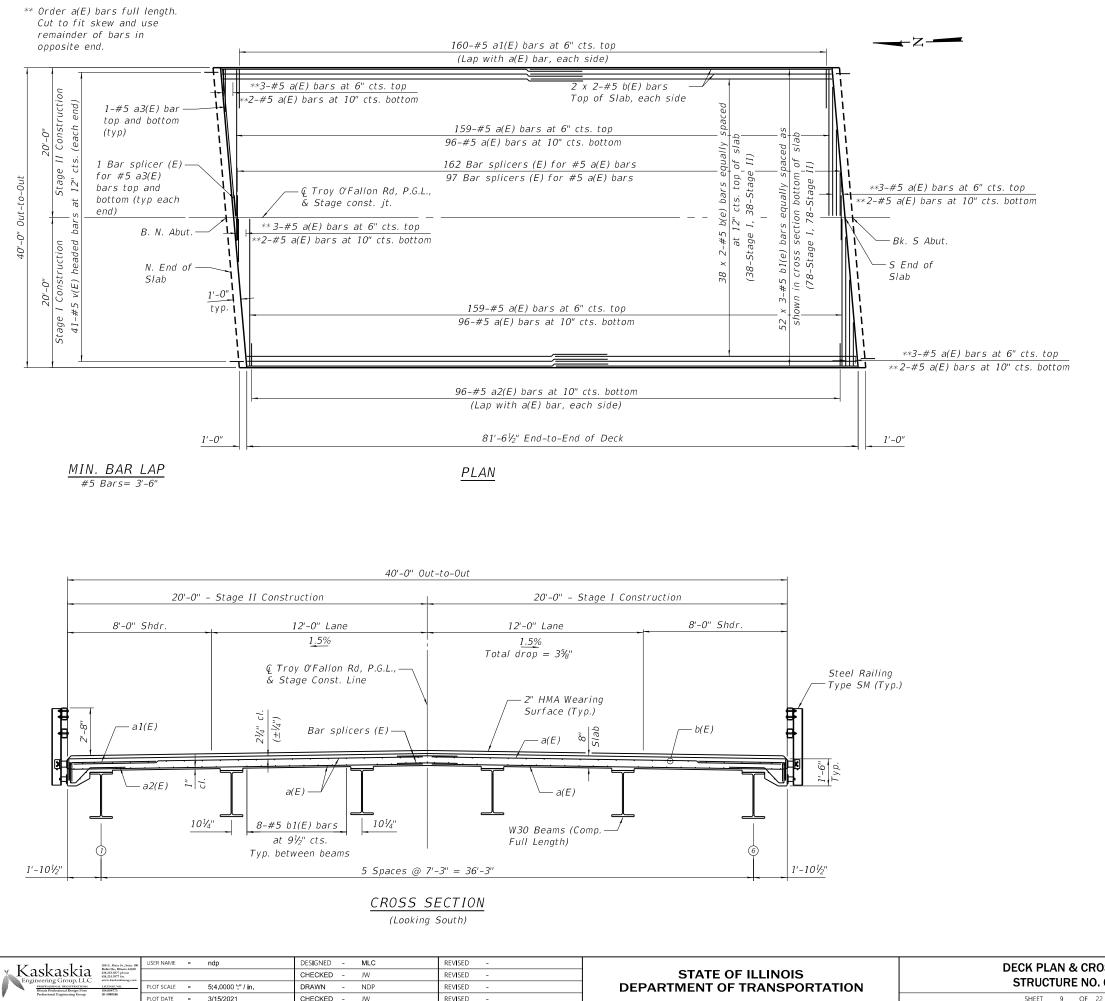
EAST EDGE OF SHOULDER										
Location	Station	Offset	Theoretical Grade Elevations							
N. End of S. Appr. Slab.	196+23.21	-20.00'	485.50							
C D	196+33.21 196+43.21	-20.00' -20.00'	485.66 485.83							
S. End of S. Appr. Slab.	196+53.21	-20.00'	486.02							

EAST EDGE OF PAVEMENT										
Location	Station	Offset	Theoretical Grade Elevations							
N. End of S. Appr. Slab.	196+23.91	-12.00'	485.63							
C D	196+33.91 196+43.91	-12.00' -12.00'	485.79 485.97							
S. End of S. Appr. Slab.	196+53.91	-12.00'	486.15							



efau	V a alza alza alza 200 E. Main St., Suise 100 Believile, Illinois 4220	USER NAME =	ndp	DESIGNED -	MLC	REVISED -		TOP OF SOUTH APPROACH SLAB ELEVATIONS	F.A.S. RTF	SECTION	COUNTY	TOTAL SHEET SHEETS NO.
D AM	Engineering Group, LLC			CHECKED -	JW	REVISED -	STATE OF ILLINOIS	STRUCTURE NO. 060-3373	1937	18-00084-04-BR	MADISON	39 25
DEL	PROFESSIONAL BECISTRATIONS LICENSE NO. Illinois Professional Design Firm 184,004773 Deficient Confessional Design Firm 184,004773	PLOT SCALE =	16.0000 ' / in.	DRAWN -	NDP	REVISED -	DEPARTMENT OF TRANSPORTATION	SIRUCIURE NO. 000-3373			CONTRAC	CT NO. 97755
₩ H	roomoon nigoweeng tetrip 20-509036	PLOT DATE =	3/15/2021	CHECKED -	JW	REVISED -		SHEET 8 OF 22 SHEETS		ILLINOIS FED. AI	D PROJECT	

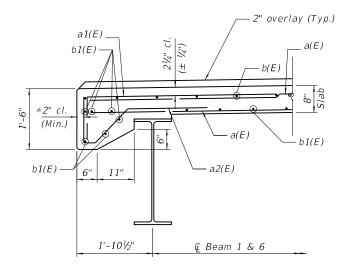
3/23/2021 8:20:02 AM



JW

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* Reinforcement bars in the deck shall be placed with a 2" minimum clearance in the area of the rail post anchor devices. 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.



SECTION THRU EDGE OF SLAB

(Railing not shown for clarity)

	5011	NUCIUI		
	<u>AL</u>			
Bar	No.	Size	Length	Shape
a(E)	520	#5	19'-9"	
a1(E)	320	#5	7'-8''	
a2(E)	192	#5	6'-5"	\sim
a3(E)	8	#5	19'-8''	
b(E)	84	#5	42'-4"	
b1(E)	156	#5	29'-5"	
m(E)	16	#6	19'-7"	
m1(E)	24	#6	7'-0''	
m2(E)	12	#6	1'-7"	
m3(E)	12	#6	3'-3''	
s(E)	80	#5	7'-7"	
s1(E)	80	#5	9'-10''	Ü
()				
v(E)	82	#5	3'-1"	<u> </u>
Reinfo	rcemen	t Bars		
	Coated	,	Lbs.	25,750
Concre	ete		Cu. Yd.	122.0
	structui		<i>cu. ru.</i>	122.0
	proofing	/	Sq. Yd.	363
	ane Sy:		59.10.	505
	ix Asph			
	ce Cour		Ton	31
	FG, Mix	"D",		51
N70				

SUPERSTRUCTURE

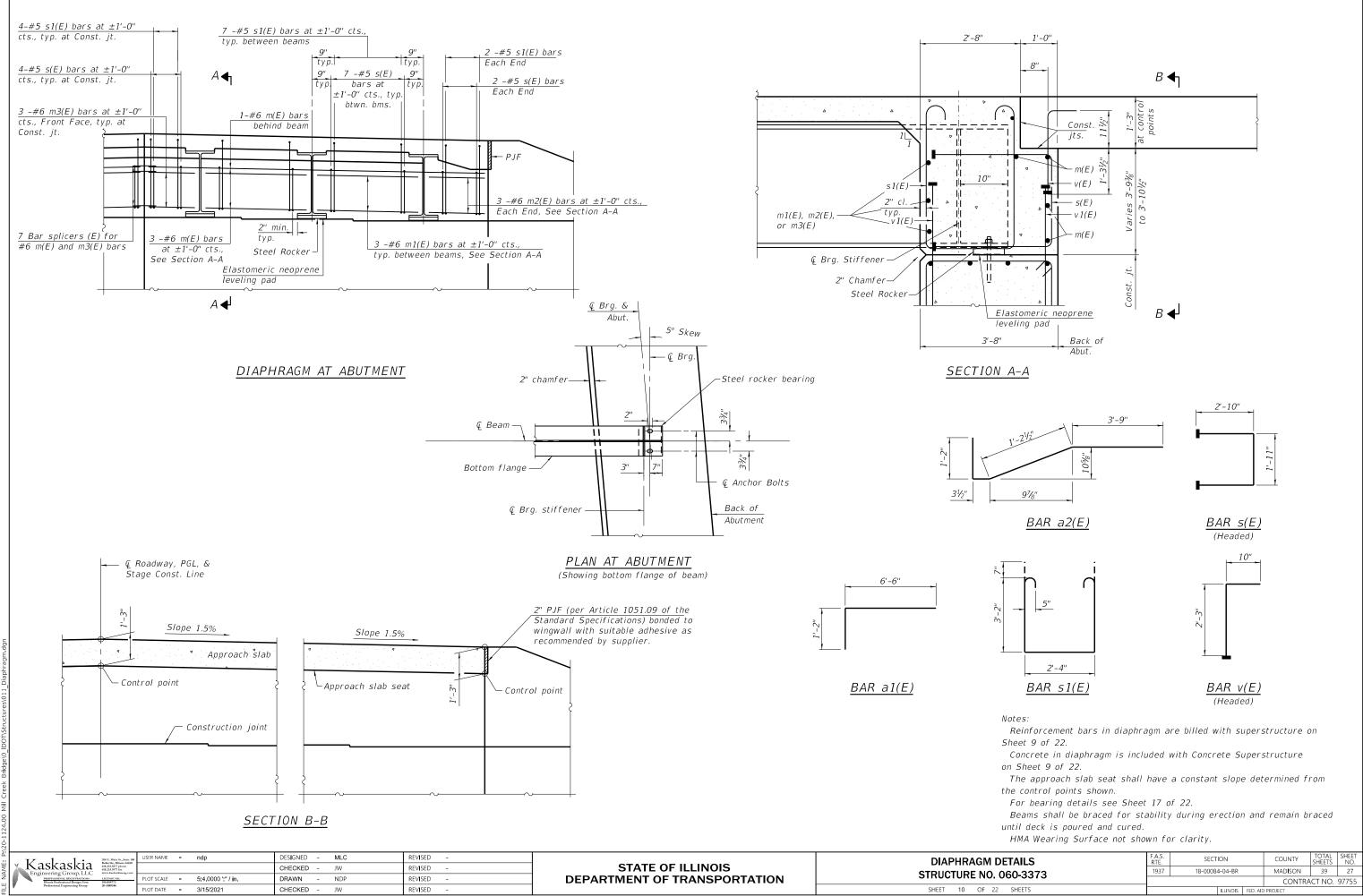
Notes:

1. Bars indicated thus 1 x 2-#8 etc. indicates 1 line of bars with 2 lengths per line.

2. See Sheet 10 of 22 for Diaphragm Details.

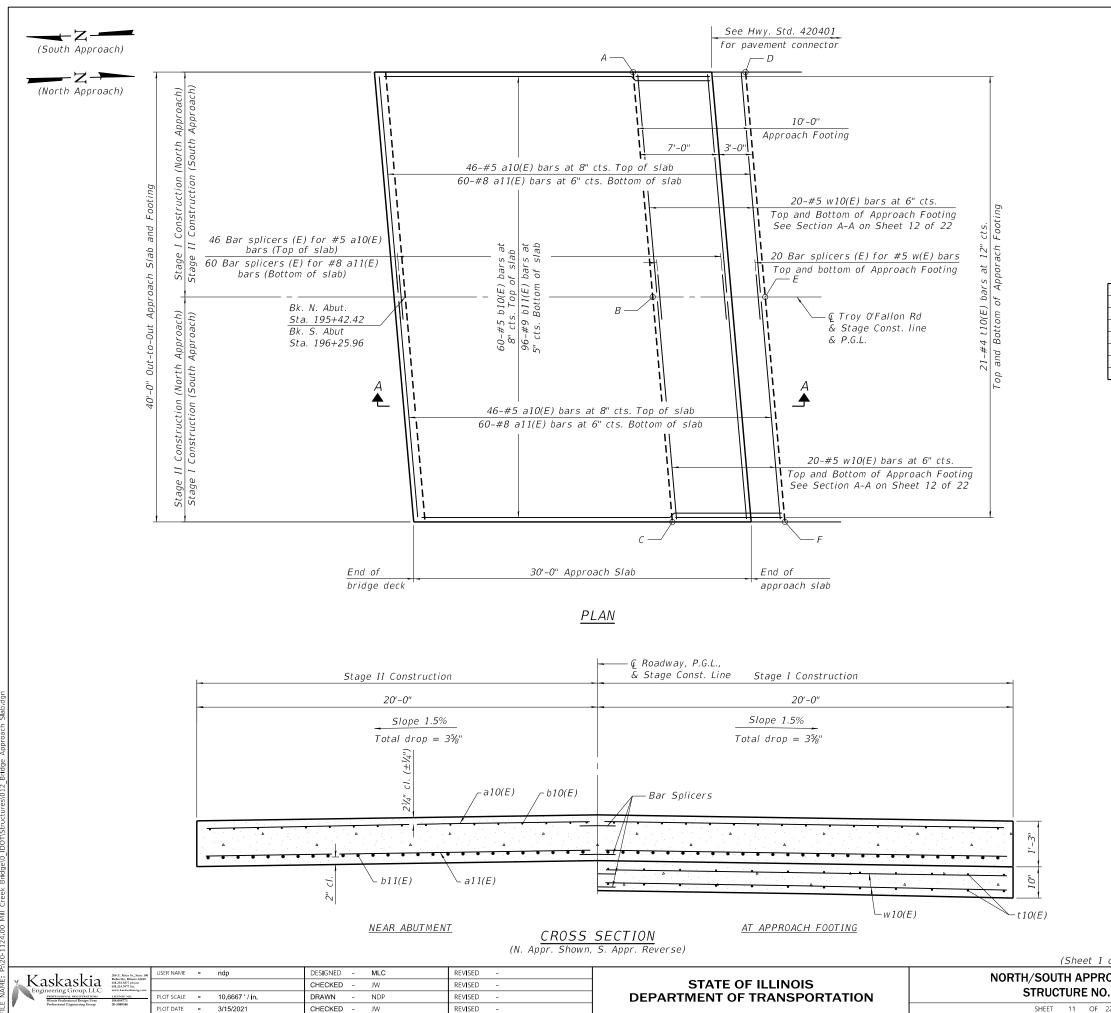
3. See Sheet 21 of 22 for bar splicer details.

OSS SECTION . 060-3373		F.A.S. SECTION		COUNTY	TOTAL SHEETS	SHEET NO.	
		1937 18-00084-04-BR			MADISON	39	26
					CONTRA	CT NO.	97755
22 SHEETS	ILLINOIS FED. AID PROJECT			PROJECT			



3/23/2021 8:20:06 AM

DETAILS . 060-3373		S. SECTION		COUNTY	TOTAL SHEETS	SHEET NO.	
		1937 18-00084-04-BR		MADISON	39	27	
					CONTRA	CT NO.	97755
22 SHEETS	ILLINOIS FED. AID PROJECT			PROJECT			



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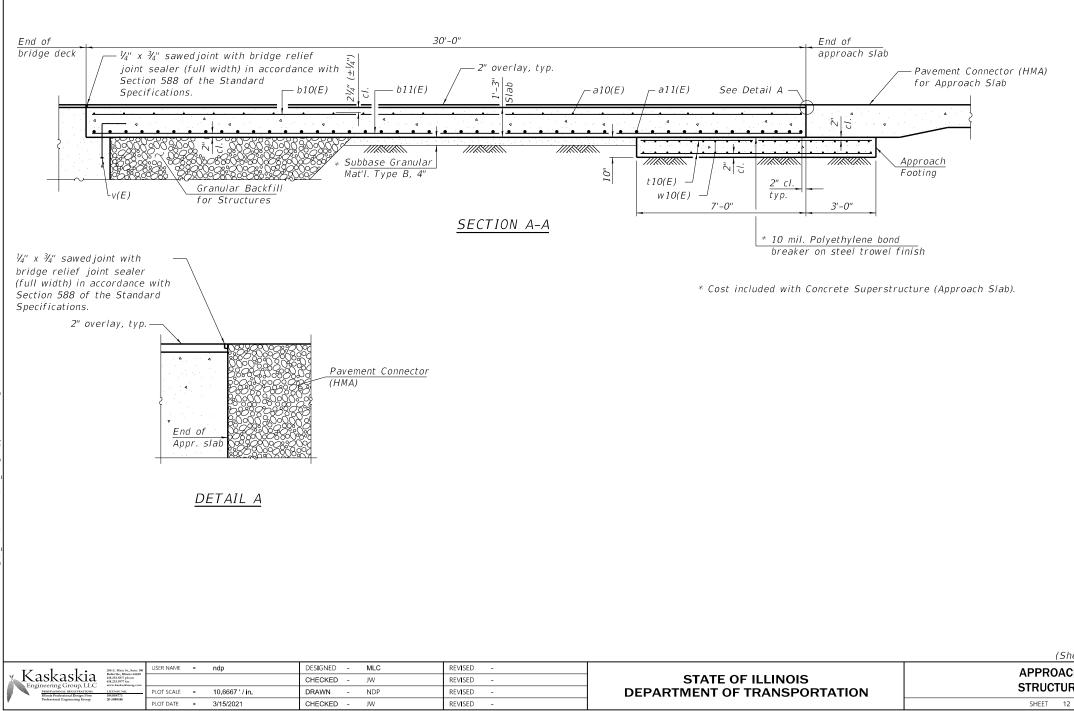
	North A	pproach	South Approach				
Point	Тор	Bottom	Тор	Bottom			
Α	483.23	482.40	484.70	483.87			
В	483.52	482.69	484.97	484.14			
С	483.21	482.38	484.64	483.81			
D	483.19	482.36	484.90	484.06			
Ε	483.48	482.65	485.16	484.33			
F	483.18	482.35	484.83	483.99			

TOP AND BOTTOM ELEVATIONS FOR APPROACH FOOTING

Note: HMA Wearing Surface is not shown for clarity.

(Sheet 1 of 2)							
UTH APPROACH SLAB PLAN CTURE NO. 060-3373		SECTION		COUNTY	TOTAL SHEETS	SHEET NO.	
		37 18-00084-04-BR		MADISON	39	28	
CTORE NO: 000-0070					CONTRA	CT NO.	97755
T 11 OF 22 SHEETS			ILLINOIS	FED. AID	PROJECT		

Notes:



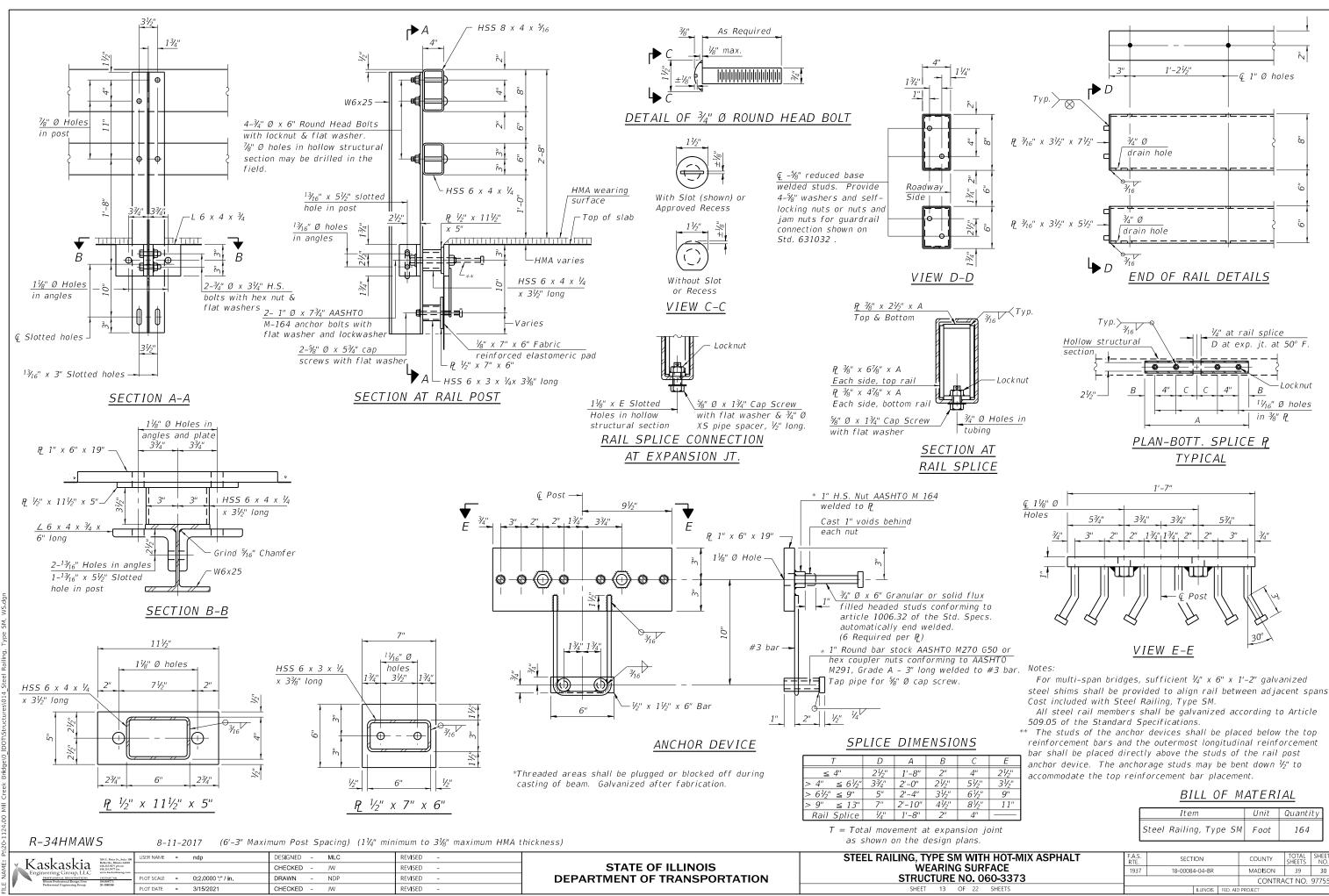
3/23/2021 8:20:09 AM

(Sheet 2 of 2) SHEE' NO. SECTION APPROACH SLAB DETAILS COUNTY SHEETS 18-00084-04-BR MADISON 39 29 1937 STRUCTURE NO. 060-3373 CONTRACT NO. 97755 SHEET 12 OF 22 SHEETS ILLINOIS FED. AID F

Approach slab shall be paid for as Concrete Superstructure (Approach Slab). Approach footing concrete shall be paid for as Concrete Structures. The approach footing maximum applied service bearing pressure (Qmax) = 2.0 ksf. Cost of excavation for approach footing included with Concrete Structures. For Granular Backfill for Structures and drainage treatment details, see sheet 2 of 22.

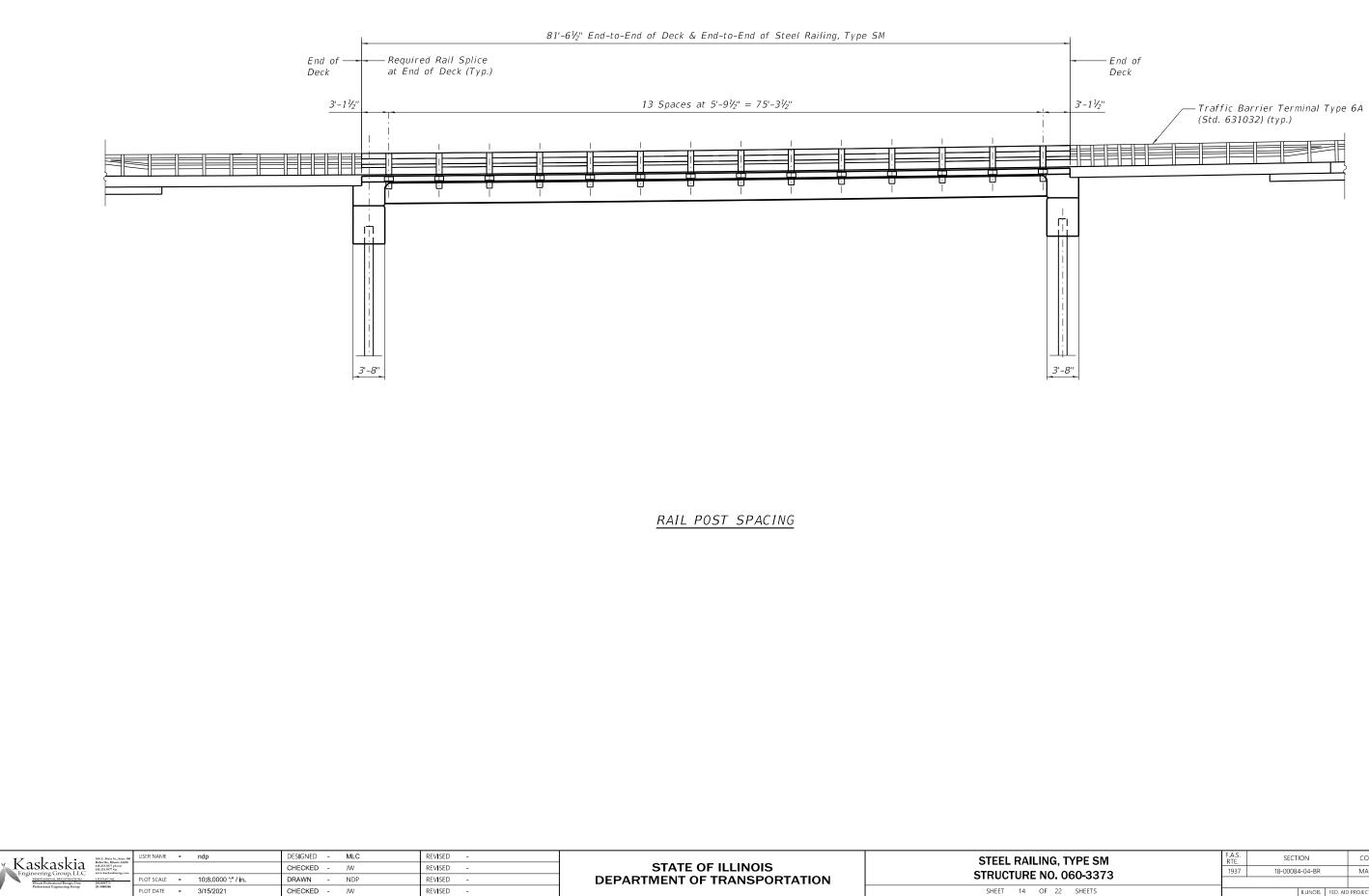
TWO APPROACHES BILL OF MATERIAL

Bar	No.	Size	Length	Shape
a10(E)	184	#5	19'-9"	
a11(E)	240	#8	19'-9"	
b10(E)	120	#5	29'-8"	
b11(E)	192	#9	29'-8"	
t10(E)	84	#4	9'-8''	
w10(E)	160	#5	19'-8''	
Reinforce	ment Bai	۶,	Pound	43.350
Ероху Со	ated		Pouna	43,330
Concrete	Structur	es	Cu.Yd.	24.7
Concrete	Superstr	ucture	Cu. Yd.	111.2
(Approach	Slab)		<i>Cu. Tu.</i>	111.2
Hot-mix A	Asphalt S	iurface		
Course, I	L-9.5FG,	Mix	Ton	30
"D", N70				



3/23/2021 8:20:11 AM

$\frac{1}{1/2''}$ 11" 4" —	Item Unit Quan					Quanti	ity
n joint s.		Steel Railin	g, Ty	be SM	Foot	164	
/ITH HOT-MIX ASPHALT URFACE	F.A.S. RTE.	SECT			COUNTY	TOTAL SHEETS	SHEET NO.
. 060-3373 22 SHEETS	1937	18-0008-	ILLINOIS	FED. AID F		39 ACT NO.	30 97755



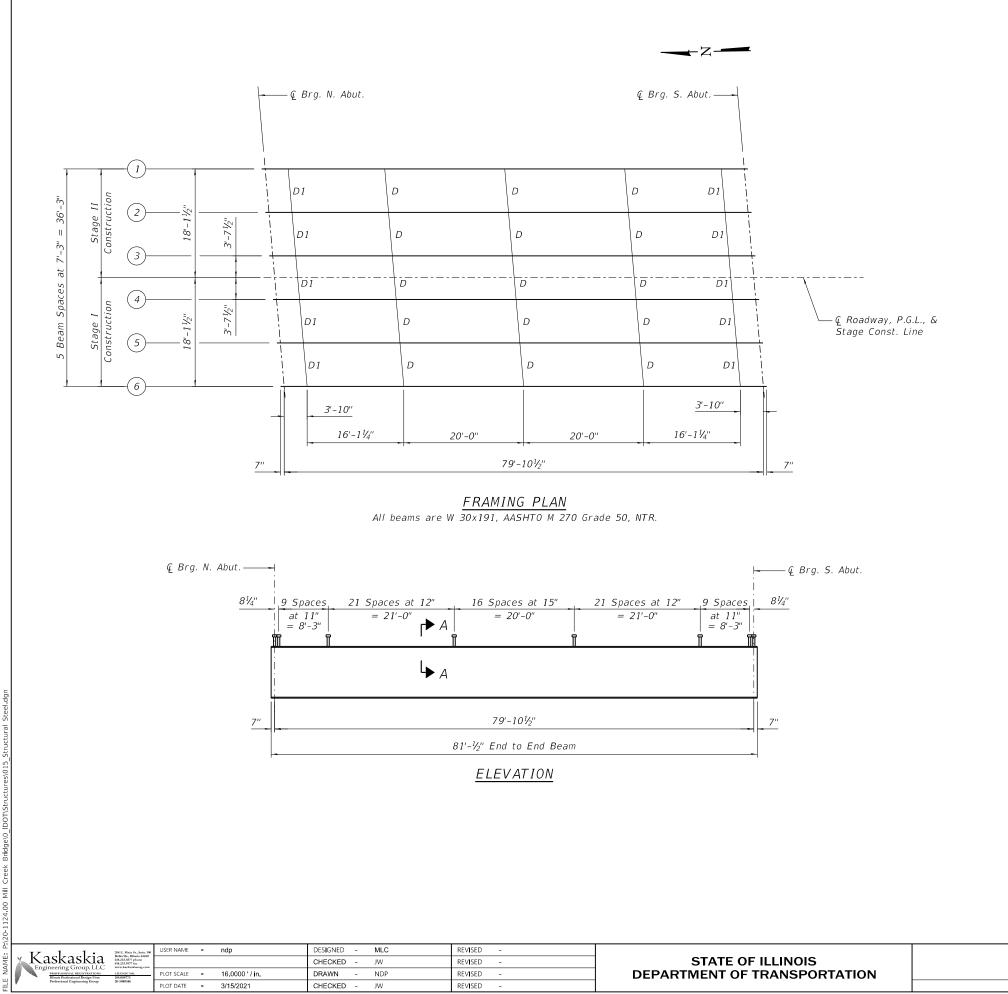
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CHECKED - JW

REVISED

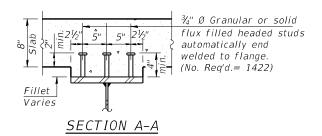
SHEET 14 OF 22

, TYPE SM	F.A.S. RTE.	RTE. SECTION			COUNTY	TOTAL SHEETS	SHEET NO.
060-3373	1937	1937 18-00084-04-BR			MADISON	39	31
000-5515	C			CONTRA	NTRACT NO. 97755		
22 SHEETS		ILLINOIS FED. AID PRO.					



<u>♀</u> 1" x 7" Brg. Stiffener (placed at Rt.∠'s to web) (each side each beam)	
2	- 1"
2	

END ELEVATION



TOP OF BEAM ELEVATIONS

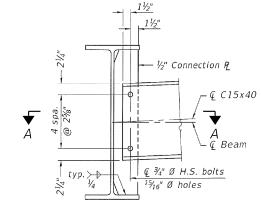
	€ N. Abut.	€ S. Abut.
Beam 1	483.53	484.43
Beam 2	483.65	484.55
Beam 3	483.77	484.68
Beam 4	483.77	484.68
Beam 5	483.66	484.58
Beam 6	483.56	484.48

For Fabrication Only

L STEEL		SECTION		COUNTY	TOTAL SHEETS	SHEET NO.	
. 060-3373	1937	7 18-00084-04-BR		MADISON	39	32	
000-0010			CONTRA	CT NO.	97755		
22 SHEETS			ILLINOIS	FED. AID	PROJECT		

INTERIOR	R BEAM	MOMENT TABLE
		0.5 Sp.
Is	(in⁴)	9200
$I_c(n)$	(in⁴)	23645
$I_c(3n)$	(in⁴)	17382
S	(in³)	600
S (n)	(in³)	849
S (3n)	(in³)	771
DC1	(k/')	0.966
MDC1	('k)	770.7
DC2	(k/')	0.078
MDC2	('k)	62.5
DW	(k/')	0.489
Mow	('k)	389.9
LLDF		0.612
M4 + IM	('k)	1259.9
Mu (Strength I)	('k)	3831.1
Ø _f M _n	('k)	4165.7
fs DC1	(ksi)	15.4
fs DC2	(ksi)	1.0
fs DW	(ksi)	6.1
fs (4+IM)	(ksi)	17.8
fs (Service II)	(ksi)	45.6
$0.95R_hF_{yf}$	(ksi)	47.5
Vf	(k)	27.5

	BEAM R	EACTION TA	BLE
		Abutr	ments
		Interior	Exterior
LLDF		0.775	0.610
OCF		-	1.017
R _{DC1}	(k)	38.6	31.6
R _{DC2}	(k)	3.1	3.1
Row	(k)	19.5	19.5
R٤	(k)	59.0	55.3
R IM	(k)	16.3	13.0
RTotal	(k)	136.5	122.6



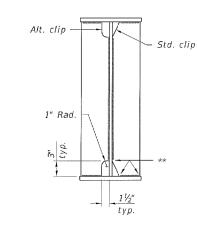
INTERIOR DIAPHRAGM D (15 Required)

Notes:

- 1. Two hardened washers required for each set of oversized holes.
- 2. Alternate channels of equal depth and larger weight are permitted to facilitate material acquisition. Alternate channels if utilized, shall be provided at no additional cost to the Department.
- 3. See interior Diaphragm/Cross-Frame Framing Details for connection plate orientation.

Channel Conn. R Beam web

SECTION A-A



Is, Ss: Non-composite moment of inertia and section modulus of the steel section used for computing f_s(Total-Strength I, and Service II) due to non-composite dead loads (in.4 and in.3). $I_c(n)$, $S_c(n)$: Composite moment of inertia and section modulus of the steel

 $I_{c}(3n)$, $S_{c}(3n)$: Composite moment of inertia and section modulus of the steel and deck based upon 3 times the modular ratio, "3n", used for computing fs(Total-Strength I, and Service II) due to longterm composite (superimposed) dead loads (in.⁴ and in.³).

> M_{DC1}: Un-factored moment due to non-composite dead load (kip-ft.). DC2: Un-factored long-term composite (superimposed excluding future

M_{DC2}: Un-factored moment due to long-term composite (superimposed excluding future wearing surface) dead load (kip-ft.). DW: Un-factored long-term composite (superimposed future wearing

M_{DW}: Un-factored moment due to long-term composite (superimposed

M_{4 + IM}: Un-factored live load moment plus dynamic load allowance (impact)

 $\mathcal{O}_{f}M_{n}$: Compact composite positive moment capacity computed according

flange due to vertical composite dead loads as calculated

flange due to vertical composite live plus impact loads as

flange due to vertical non-composite dead loads as calculated

future wearing surface only) dead load (kip-ft.).

*f*₅ DC1: Un-factored stress at edge of flange for controlling steel

fs DC2: Un-factored stress at edge of flange for controlling steel

fs DW: Un-factored stress at edge of flange for controlling steel flange due to vertical composite future wearing surface

fs (1+1M): Un-factored stress at edge of flange for controlling steel

0.95RhFyf: Composite stress capacity for Service II loading according

1.25 (fsDC1 + fsDC2) + 1.5 fsDW + 1.75 fs(\ + IM)

Øf Fn: Non-Compact composite positive or negative stress capacity for

Vf:Maximum factored shear range in composite portion of span

Strength I loading according to Article 6.10.7 or 6.10.8 (ksi).

1.25 (M_{DC1}+ M_{DC2}) + 1.5 M_{DW} + 1.75 M₄ + IM

DC1: Un-factored non-composite dead load (kips/ft.).

wearing surface) dead load (kips/ft.).

surface only) dead load (kips/ft.).

loads as calculated below (ksi).

calculated below (ksi).

fs (Service II): Sum of stresses as computed below (ksi).

to Article 6.10.4.2 (ksi).

fsdc1+ fsdc2 + fsdw + 1.3 fs + + IM

computed according to Article 6.10.10.

fs (Total)(Strength I): Sum of stresses as computed below on non-compact

(kip-ft.). Mu (Strength I): Factored design moment (kip-ft.).

to Article 6.10.7.1.

below (ksi).

below (ksi). MDC2/Sc(3n)

 $M_{DW} / S_c(3n)$

M4+ IM / Sc(n)

section (ksi).

MDC1/ Snc

live loads (in.4 and in.3).

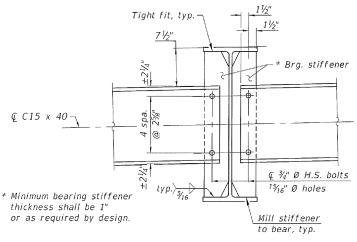
and deck based upon the modular ratio, "n", used for computing f_s(Total-Strength I, and Service II) due to short-term composite

WELD LIMITS AND CLIP DETAILS

Interior beam shown, exterior beam similar ** Stop welds $\frac{1}{4}$ " ($\pm\frac{1}{8}$ ") from edges as shown. Typical.

DESIGNED - MLC REVISED SER NAME = ndp STRUCTURAL STE Kaskaskia STATE OF ILLINOIS CHECKED -JW REVISED STRUCTURE NO. DT SCALE = 0.1667 ' / in. DRAWN NDP REVISED **DEPARTMENT OF TRANSPORTATION** SHEET 16 OF 22 PLOT DATE = 3/15/2021 CHECKED -REVISED I\//

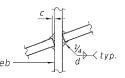
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END DIAPHRAGM D1 (10 Required)

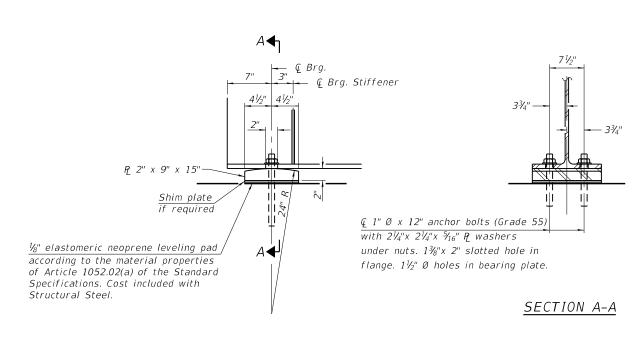
Notes:

- 1. Two hardened washers required for each set of oversized holes.
- 2. Alternate channels of equal depth and larger weight are permitted to facilitate material acquisition. Alternate channels if utilized, shall be provided at no additional cost to the Department.
- 3. See Diaphragm/Cross-Frame Framing Details for connection plate orientation.



WEB WELD DETAIL $d = \frac{1}{4} + c$

EEL DETAILS	F.A.S. RTE. SECTION			COUNTY	TOTAL SHEETS	SHEET NO.	
. 060-3373	1937	1937 18-00084-04-BR		MADISON	39	33	
. 000-3373				CONTRACT NO. 97755			
22 SHEETS			ILLINOIS	FED. AID	PROJECT		



ELEVATION AT ABUTMENT

FIXED BEARING AT ABUTMENTS (12 Required)

Notes:

Two $\frac{1}{8}$ in. adjusting shims shall be provided for each bearing in addtion to all other plates or shims and placed as shown on bearing details.

Anchor bolts shall be ASTM F1554 all-thread (or an Engineer -approved alternate material) of the grade and diameter specified. The corresponding specified grade of AASHTO M314 anchor bolts may be used in lieu of ASTM F1554.

The structural steel plates of the bearings shall conform to the requirements of AASHTO M 270, Grade 50.

All bearing plates, anchor bolts, nuts, and washers shall be galvanized according to AASHTO M 111 or M 262 as applicable.

Beams shall be braced for stability during erection and remain braced until deck is poured and cured.

Anchor bolts at all supports shall be installed as each member is erected unless an equivalent temporary means of lateral restraint is used.

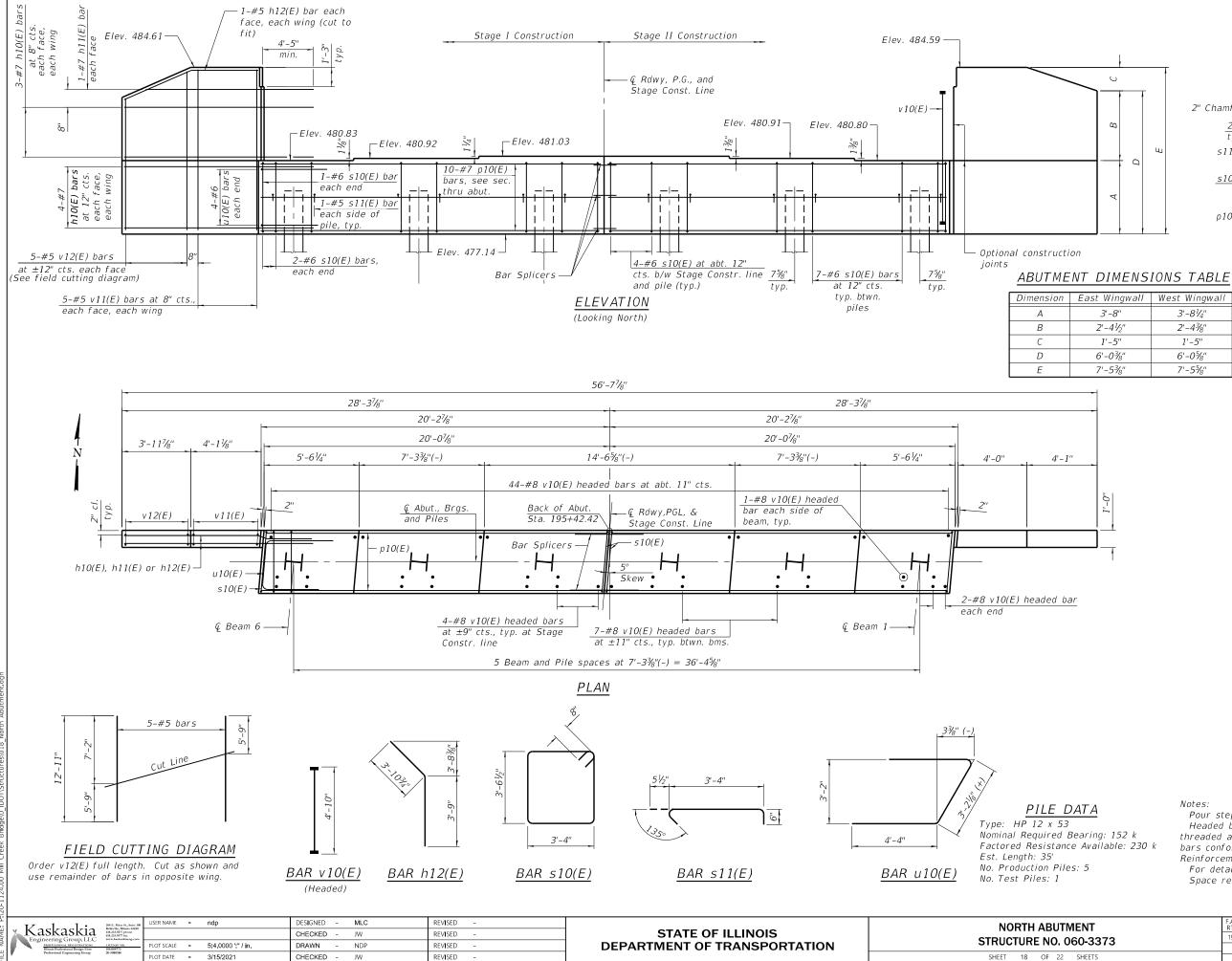
Anchor bolts at fixed bearings may be either cast in place or installed in holes drilled after the supported member is in place.

북 월 L												
efat	[Z]]] 200 €. Main St., Suize 100 Bedreette Minole 62200	USER NAME = ndp	DE	es i gned –	MLC	REVISED -		BEARING DETAILS	F.A.S. BTE	SECTION	COUNTY	TOTAL SHEET
Q ₩	Engineering Group LLC		CH	HECKED -	JW	REVISED -	STATE OF ILLINOIS		1937	18-00084-04-BR	MADISON	39 34
	PROFESSIONAL DEGISTRATIONS LICENSE NO. Illinois Prefessional Design Firm 184.094773	PLOT SCALE = 0:2.0000	':" / in. DF	RAWN -	NDP	REVISED -	DEPARTMENT OF TRANSPORTATION	STRUCTURE NO. 060-3373			CONTRA	CT NO. 97755
EILE MO	Professional Engineering Group 20-5080586	PLOT DATE = 3/15/202	1 Cł	HECKED -	JW	REVISED -		SHEET 17 OF 22 SHEETS		ILLINOIS FED. A	ID PROJECT	

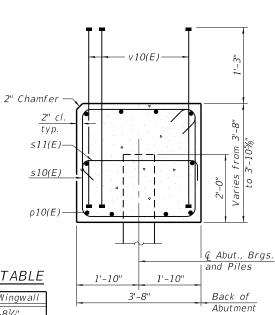
Anchor Bol

BILL OF MATERIAL

ITEM	UNIT	TOTAL
lts 1"	Each	24



3/23/2021 8:20:27 AM



η	East Wingwall	West Wingwall
	3'-8''	3'-8¼"
	2'-4 ¹ / ₂ ''	2'-4¾"
	1'-5"	1'-5"
	6'-0¾"	6'-05%''
	7'-5¾"	7'-5 ⁵ /8''

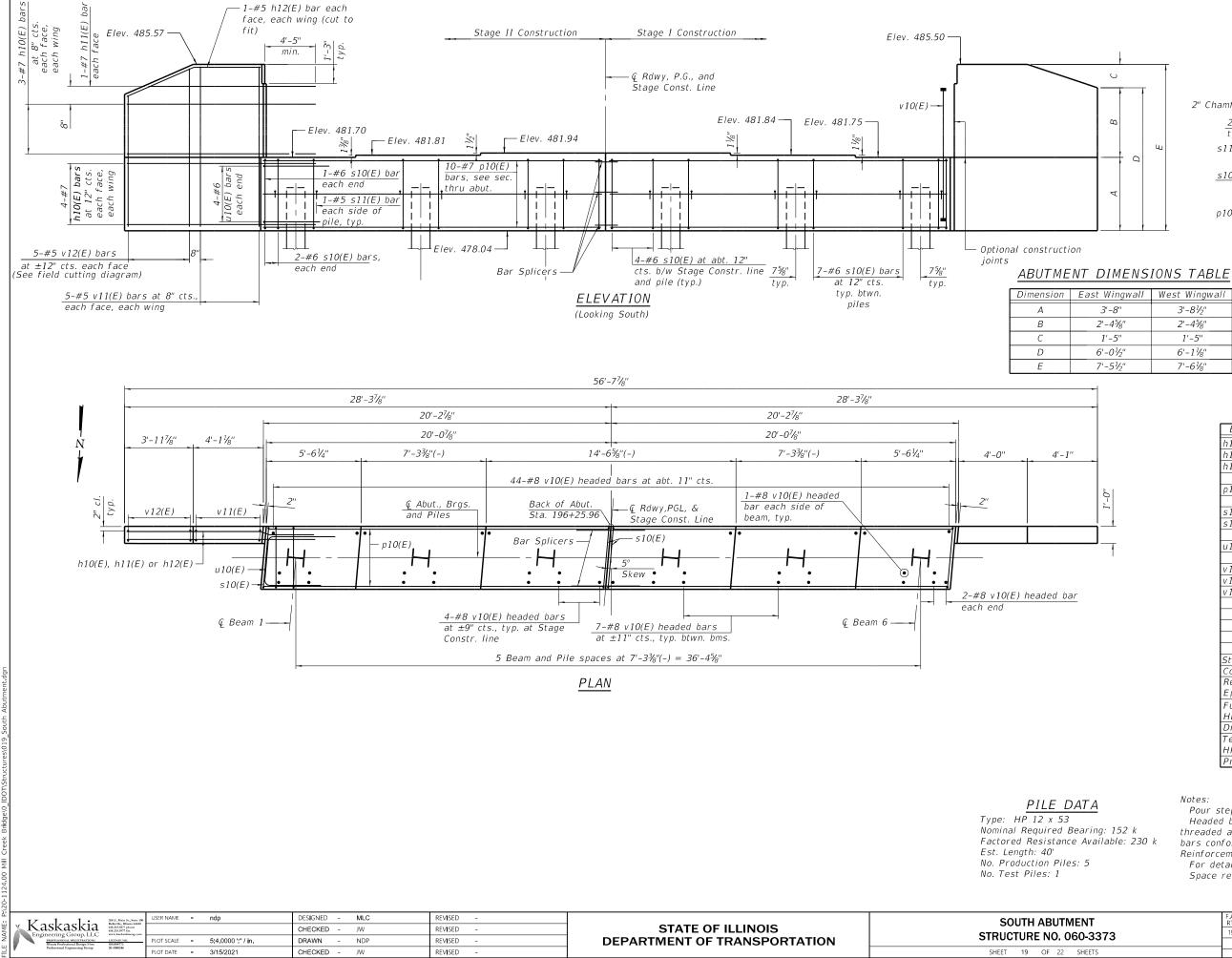
SEC. THRU ABUT. Dimensions at right angles to abutment.

Headed bars shall conform to ASTM A970 with threaded attachment; Class HA; and reinforcement bars conforming to ASTM A706. Cost included with Reinforcement Bars, Epoxy Coated. For details of piles see sheet 20 of 22. Space reinforcement in cap to miss dowel rods.

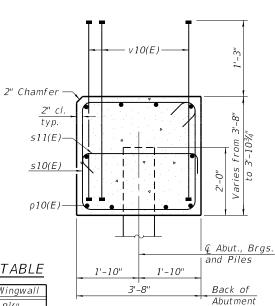
SECTION		COUNTY	TOTAL SHEETS	SHEET NO.
1937 18-00084-04-BR			39	35
		CONTRACT NO. 977		
ILLINOIS FED. AID PROJECT				
	18-00084-04-BR	18-00084-04-BR	18-00084-04-BR MADISON CONTRA	SECTION COUNTY SHEETS 18-00084-04-BR MADISON 39 CONTRACT NO.

Pour steps monolithically with cap.

Notes:



3/23/2021 8:20:29 AM



1	East Wingwall	West Wingwall
	3'-8"	3'-8½"
	2'-4 ⁵ /8''	2'-45/8"
	1'-5"	1'-5"
	6'-0½"	6'-11/8"
	7'-5½"	7'-6½"

SEC. THRU ABUT. Dimensions at right angles to abutment.

BILL	0F	MATERIAL

(Two Abutments)							
Bar	No.	Size	Length	Shape			
h10(E)	10(E) 56 #7		12'-6"				
h11(E)	8	#7	10'-4" 7'-8"				
h12(E)	h12(E) 8 #5						
p10(E)	p10(E) 40 #7						
s10(E)	84	#6	15'-1"				
s11(E)	24	#5	4'-4''				
u10(E)	16	#6	11'-10''				
v10(E)			4'-8''	·			
v11(E) v12(E)	40 20	#5 #5	7'-2" 12'-11"				
V12(L)	20		12 11				
Structi	ire Exc	avation	Cu. Yd.	184			
	te Stru		Cu. Yd.	50.3			
	rcement	Bars,	Pound	8,540			
	Coated		i ounu	0,540			
Furnis HP 12	hing – 1 x 53	Piles,	Foot	375			
Driving	g Piles		Foot	375			
Test P HP 12	· ·		Each	2			
	tive Co	ating	Sq. Yd.	30			

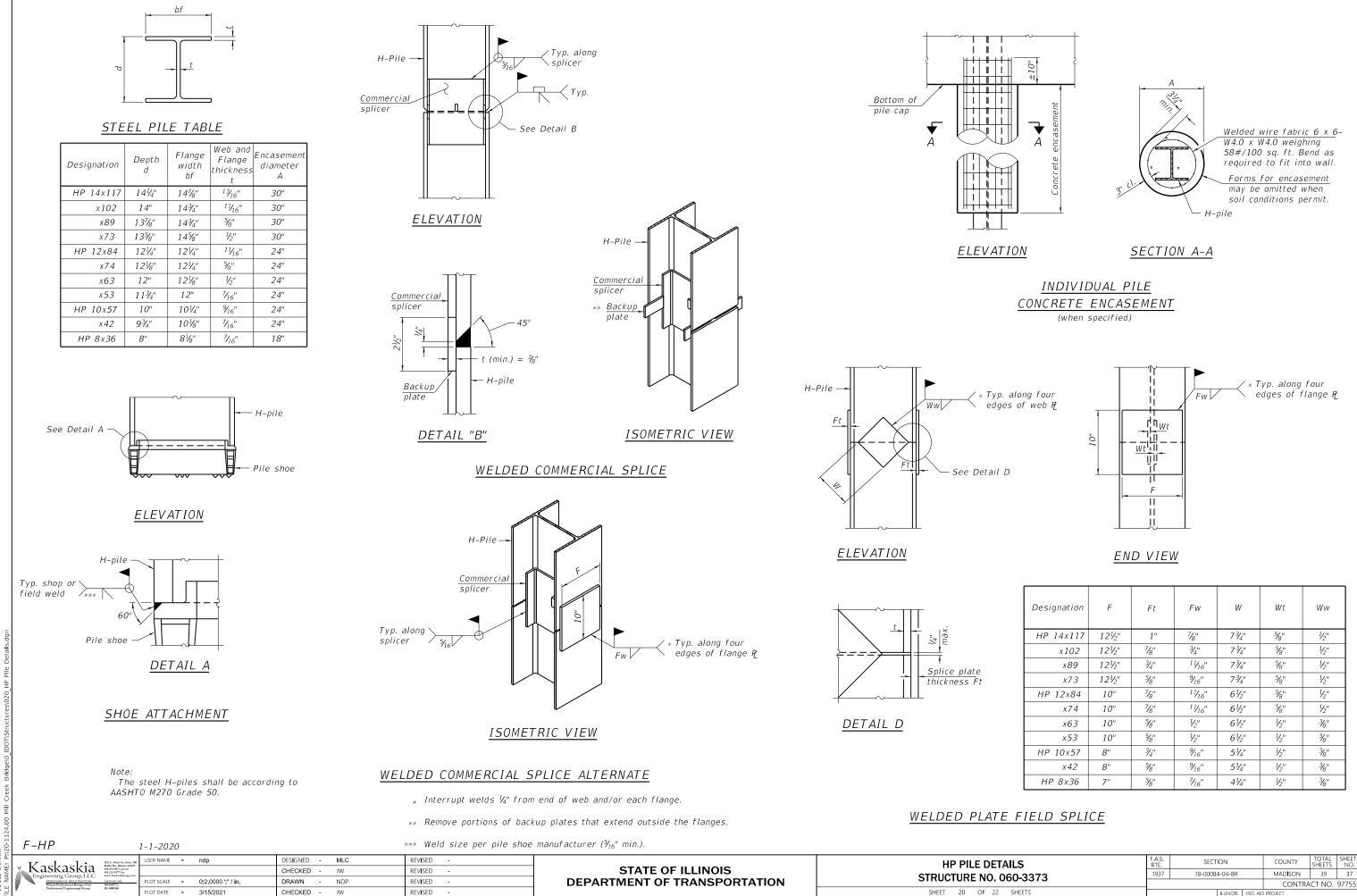
Notes:

Pour steps monolithically with cap.

Headed bars shall conform to ASTM A970 with threaded attachment; Class HA; and reinforcement bars conforming to ASTM A706. Cost included with Reinforcement Bars, Epoxy Coated. For details of piles see sheet 20 of 22.

Space reinforcement in cap to miss dowel rods.

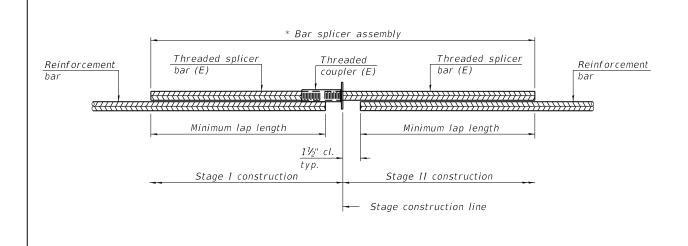
F.A.S. RTE.	SECT	ION		COUNTY	TOTAL SHEETS	SHEET NO.	
1937	1937 18-00084-04-BR		MADISON	39	36		
				CONTRACT NO. 97755			
ILLINOIS FED. AID PROJECT							
	RTE.	RTE. SECT	RTE. SECTION 1937 18-00084-04-BR	RTE. SECTION 1937 18-00084-04-BR	RTE. SECION COUNTY 1937 18-00084-04-BR MADISON	RTE: SECTION COUNTY SHEETS 1937 18-00084-04-BR MADISON 39	



3/23/2021 8:20:30 AM

Designation	F	Ft	Fw	W	Wt	Ww
HP 14x117	12½"	1"	7/8"	7 <i>³</i> / ₄ ''	<i>5</i> /8"	1/2"
x102	12½"	7/8"	3/4"	7 <i>³</i> / ₄ "	5/8''	1/2"
x89	12½"	³ /4"	¹ 1⁄ ₁₆ "	7 <i>³</i> / ₄ ''	5/8''	1/2"
x73	12½"	5/8''	%16"	7 <i>3</i> / ₄ "	5/8''	1/2"
HP 12x84	10"	7/8"	¹ 1⁄ ₁₆ "	6½"	5/8''	1/2"
x74	10"	7/8"	¹ 1⁄ ₁₆ "	6½"	5/8''	1/2"
x63	10"	5/8''	1 _{/2} "	6½"	¹ /2"	3/8"
x53	10"	5/8''	1 _{/2} "	6½"	1⁄2"	3/8"
HP 10x57	8"	3/4"	9⁄16''	5¼″	1/2"	3/8"
x42	8"	5/8''	9⁄16"	5¼"	1⁄2"	3/8"
HP 8x36	7"	5/8''	7/ ₁₆ "	4¼″	1/2"	3/8"

ETAILS . 060-3373		SECTION		COUNTY	TOTAL SHEETS	SHEET NO.
		18-00084-04-BR	MADISON	39	37	
				CONTRA	CT NO.	97755
22 SHEETS		ILLINOIS	FED. AID	PROJECT		



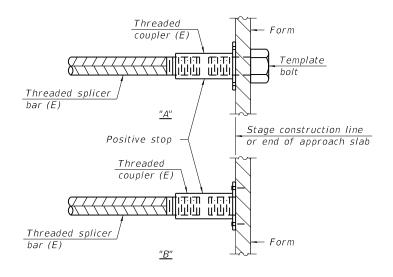
STANDARD BAR SPLICER ASSEMBLY PLAN

(All components shall be provided from one supplier)

* Epoxy not required on Bar Splicer Assembly components used in

conjunction with black bars.

Threaded splicer bar length = min. lap length + $1\frac{1}{2}$ " + thread length



INSTALLATION AND SETTING METHODS

- "A" : Set bar splicer assembly by means of a template bolt.
- "B" : Set bar splicer assembly by nailing to wood forms or cementing to steel forms. (E) : Indicates epoxy coating.

Bar No. assemblies Minimum Location required lap length size Deck #5 263 3'-0" Abutment Diaphragm 4'-0'' #6 14 Abutment Cap 20 4'-2" #7 Approach #5 92 3'-0" 120 4'-9'' #8 Approach Approach Footing #5 80 3'-0"

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Notes:

Splicer bars shall be deformed with threaded ends and have a minimum 60 ksi yield strength.

All reinforcement shall be lapped and tied to the splicer bars.

Bar splicer assemblies shall be epoxy coated according to the requirements for reinforcement bars. See Section 508 of the Standard Specifications. See approved list of bar splicer assemblies and mechanical splicers for alternatives.

SOIL SYMBOL SAMPLER SYMBO	TALLED:				PENETROMETER,	LOGGED BY: Brooks PIEZOMETER INSTALLED: ELEVATION SOIL SYMBOLS DEPTH AND FIELD TEST DATA	1	Hours after comple	MOISTURE PENETROMETER,	LOGGED B PIEZOMET
AND FIELD TEST	DATA	DESCRIPTION	RATIO In/In HE	IGHT, pef CONTENT %	tsf	DEPTH AND FIELD TEST DATA	DESCRIPTION	RATIO In/In WEIGHT,	pcf CONTENT % taf	155 - A
•	-c.	Gray-Brown Silty CLAY, FILL					Gray-Brown Clayey SILT			 30 450
s	/6 /6 - ML	Gray-Brown Clayey SILT	8/18	22	3.25			18/18	27 0.75	1
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15 2	16676		18/18	26	2.8		-w'Sand below 12.0'	16/18	24	
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RECORD OF SUBSURFACE EXPLORATION

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