

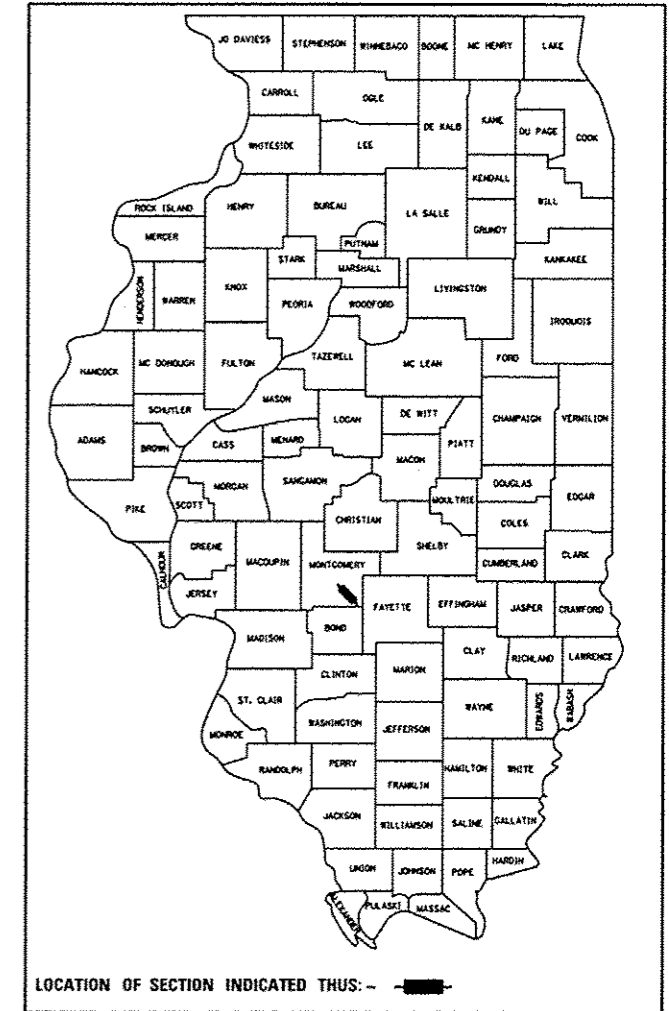
STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION
DIVISION OF HIGHWAYS
PROPOSED
HIGHWAY PLANS

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
777	10B-2, 405B-1	MONTGOMERY	121	1
		ILLINOIS	CONTRACT NO. 72D08	

INDEX OF SHEETS
SEE SHEET NO. 2

HIGHWAY STANDARDS
SEE SHEET NO. 2

D-96-109-09

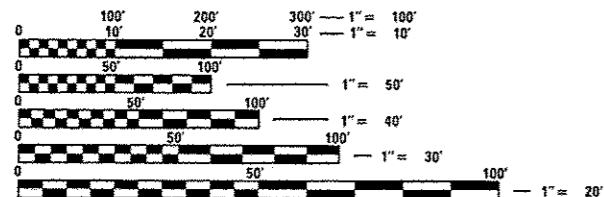


FAP ROUTE 777 (IL 185)
SECTION 10B-2, 405B-1
PROJECT ACF-0777 (018)
BRIDGE REPLACEMENT
MONTGOMERY COUNTY
C-96-109-09

FUNCTIONAL CLASSIFICATION:
MINOR ARTERIAL (NON-URBAN)
DESIGN SPEED = 60 MPH
POSTED SPEED = 55 MPH

MCDAVID BRANCH
ADT: 3,000 (2013); 2,982 (2032)
PV 90.16% SU = 6.17% MU = 3.67%

BAYOU CREEK
ADT: 1,850 (2013); 2,183 (2032)
PV 89.18% SU = 5.41% MU = 5.41%



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

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

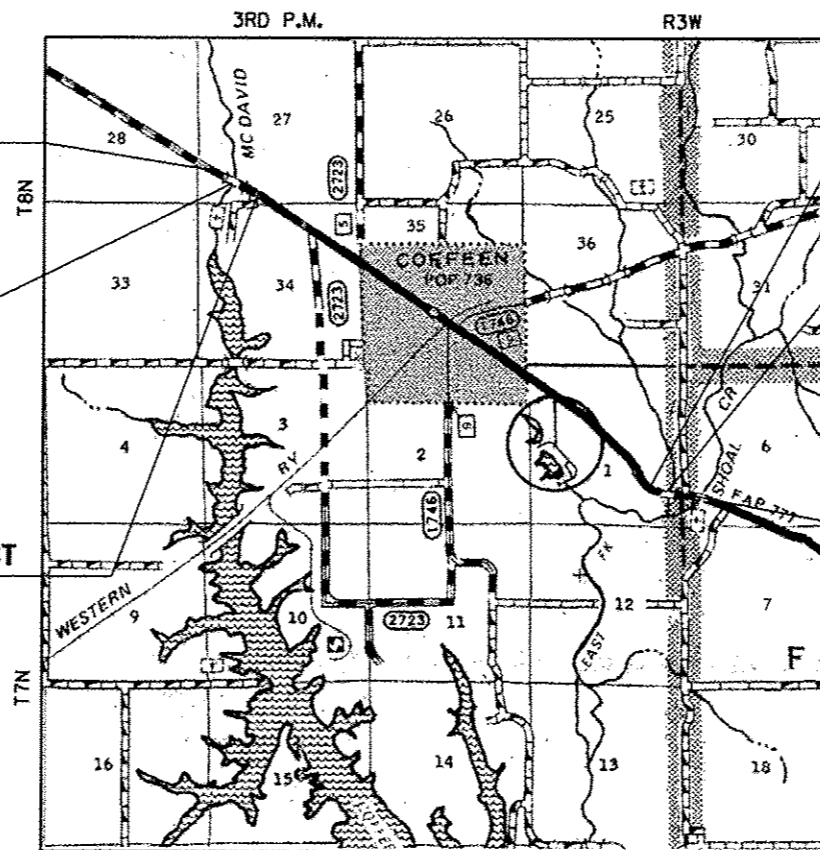
TEAM LEADER: GARY TURNER (217) 524-7940
PROJECT ENGINEER: KEITH DONOVAN (217) 782-4761

CONTRACT NO. 72D08

BEGIN PROJECT
STA. 307 + 05

BRIDGE REPLACEMENT
OVER MCDAVID BRANCH
STA. 310 + 30.70
EXIST SN 068-0026
PROP SN 068-0512

END PROJECT
STA. 314 + 00



LOCATION MAP
NOT TO SCALE

GROSS LENGTH = 2,020 FT. = 0.383 MILE
 NET LENGTH = 2,020 FT. = 0.383 MILE

BEGIN PROJECT
STA. 485 + 60

BRIDGE REPLACEMENT
OVER BAYOU CREEK
STA. 492 + 70.00
EXIST SN 068-0027
PROP SN 068-0513

END PROJECT
STA. 497 + 30



Cory W. Chamberlain
 Expires: 11/30/2015

STATE OF ILLINOIS
 DEPARTMENT OF TRANSPORTATION
 DIVISION OF HIGHWAYS

SUBMITTED *October 16, 2015*

Roger A. Dinkel
 DEPUTY DIRECTOR OF HIGHWAYS, REGION ENGINEER

Jan 29, 2016
Maureen M. Addis PE
 ENGINEER OF DESIGN AND ENVIRONMENT

Jan 29, 2016
Omer Osman PE
 DIRECTOR OF HIGHWAYS/CHIEF ENGINEER

PRINTED BY THE AUTHORITY
OF THE STATE OF ILLINOIS



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HIGHWAY STANDARDS

- 000001-06 STANDARD SYMBOLS, ABBREVIATIONS & PATTERNS
- 001001-02 AREAS OF REINFORCEMENT BARS
- 001006 DECIMAL OF AN INCH AND OF A FOOT
- 280001-07 TEMPORARY EROSION CONTROL SYSTEMS
- 406201-01 MAILBOX TURNOUT
- 420401-11 BRIDGE APPROACH PAVEMENT CONNECTOR
- 482001-02 HMA SHOULDER ADJACENT TO FLEXIBLE PAVEMENT
- 515001-03 NAME PLATE FOR BRIDGES
- 542401-01 METAL END SECTION FOR PIPE CULVERTS
- 601101-01 CONCRETE HEADWALL FOR PIPE DRAIN
- 610001-06 SHOULDER INLET WITH CURB
- 630001-10 STEEL PLATE BEAM GUARDRAIL
- 630301-06 SHOULDER WIDENING FOR TYPE 1 (SPECIAL) GUARDRAIL TERMINALS
- 631031-13 TRAFFIC BARRIER TERMINAL, TYPE 6
- 635006-03 REFLECTOR AND TERMINAL MARKER PLACEMENT
- 635011-02 REFLECTOR MARKER AND MOUNTING DETAILS
- 666001-01 RIGHT OF WAY MARKERS
- 701006-05 OFF-ROAD OPERATIONS, 2L, 2W, 15' (4.5 M) TO 24" (600 MM) FROM PAVEMENT EDGE
- 701011-04 OFF-ROAD MOVING OPERATIONS, 2L, 2W, DAY ONLY
- 701201-04 LANE CLOSURE, 2L, 2W, DAY ONLY, FOR SPEEDS > 45 MPH
- 701301-04 LANE CLOSURE, 2L, 2W, SHORT TIME OPERATIONS
- 701306-03 LANE CLOSURE, 2L, 2W, SLOW MOVING OPERATIONS DAY ONLY, FOR SPEEDS >= 45 MPH
- 701311-03 LANE CLOSURE, 2L, 2W MOVING OPERATIONS - DAY ONLY
- 701321-14 LANE CLOSURE, 2L, 2W, BRIDGE REPAIR WITH BARRIER
- 701326-04 LANE CLOSURE, 2L, 2W, PAVEMENT WIDENING, FOR SPEEDS >= 45 MPH
- 701901-04 TRAFFIC CONTROL DEVICES
- 704001-07 TEMPORARY CONCRETE BARRIER
- 720001-01 SIGN PANEL MOUNTING DETAILS
- 720006-04 SIGN PANEL ERECTION DETAILS
- 720011-01 METAL POSTS FOR SIGNS, MARKERS & DELINEATORS
- 729001-01 APPLICATIONS OF TYPES A & B METAL POSTS (FOR SIGNS AND MARKERS)
- 780001-05 TYPICAL PAVEMENT MARKINGS
- 781001-03 TYPICAL APPLICATIONS RAISED REFLECTIVE PAVEMENT MARKERS
- 886001-01 DETECTOR LOOP INSTALLATIONS
- 886006-01 TYPICAL LAYOUTS FOR DETECTION LOOPS
- BLR 21-9 TYPICAL APPLICATION OF TRAFFIC CONTROL DEVICES FOR CONSTRUCTION ON RURAL LOCAL HIGHWAYS

DISTRICT SIX	
EXAMINED	<i>September 29th 20 15</i>
	<i>[Signature]</i>
OPERATIONS ENGINEER	
EXAMINED	<i>October 1 20 15</i>
	<i>[Signature]</i>
PROJECT IMPLEMENTATION ENGINEER	

EXAMINED	<i>October 7 20 15</i>
	<i>[Signature]</i>
PROGRAM DEVELOPMENT ENGINEER	

GENERAL NOTES

- THE CONTRACTOR SHALL PROTECT UTILITY PROPERTY FROM CONSTRUCTION OPERATIONS AS OUTLINED IN ARTICLE 107.31 OF THE STANDARD SPECIFICATION. THE J.U.L.I.E. NUMBER IS 1-800-892-0123.

ILLINOIS STATE LAW REQUIRES A 48-HOUR NOTICE BE GIVEN TO ALL UTILITIES BEFORE DIGGING. FIELD MARKING OF FACILITIES MAY BE OBTAINED BY CONTACTING J.U.L.I.E. OR FOR NON-MEMBERS, BY CONTACTING THE UTILITY COMPANY DIRECTLY.

IT IS UNDERSTOOD AND AGREED THAT THE CONTRACTOR HAS TAKEN THE FOREGOING INTO CONSIDERATION IN SUBMITTING HIS BID, AND NO ADDITIONAL COMPENSATION WILL BE ALLOWED FOR ANY DELAYS OR INCONVENIENCES CAUSED BY THE SAME.

THE INFORMATION AND DATA SHOWN OR INDICATED ON THESE IMPROVEMENT PLANS WITH RESPECT TO EXISTING UNDERGROUND FACILITIES AND UTILITIES AT OR CONTIGUOUS TO THE SITE IS BASED ON INFORMATION AND DATA FURNISHED BY THE OWNERS OF SUCH FACILITIES AND UTILITIES OR BY OTHERS. FIELD MARKINGS OF FACILITIES IN CRITICAL AREAS MAY BE OBTAINED BY PROVIDING A MINIMUM OF 96 HOURS ADVANCE NOTICE TO THE RESIDENT ENGINEER SO THAT UTILITIES CAN BE GIVEN NOTICE. NO GUARANTEE IS IMPLIED AS TO THE ACCURACY OR COMPLETENESS OF ANY SUCH INFORMATION OR DATA; AND CONTRACTOR SHALL HAVE FULL RESPONSIBILITY FOR (i) REVIEWING AND CHECKING ALL SUCH INFORMATION AND DATA, (ii) VERIFYING IF ANY CONFLICTS EXIST WITH THE PROPOSED WORKED AND UNDERGROUND FACILITIES AND UTILITIES SHOWN OR INDICATED ON THE IMPROVEMENT PLANS; (iii) COORDINATION OF THE WORK WITH THE OWNERS OF SUCH UNDERGROUND FACILITIES AND UTILITIES DURING THE CONSTRUCTION, AND (iv) THE SAFETY AND PROTECTION OF ALL SUCH UNDERGROUND FACILITIES AND UTILITIES AND REPAIR OF ANY DAMAGE THERE TO RESULTING FROM THE WORK AT HIS EXPENSE.
- IN ADDITION TO FIELD SURVEYS AND AERIAL SURVEYS, PLAN DIMENSIONS AND DETAILS RELATIVE TO EXISTING FACILITIES HAVE BEEN TAKEN FROM EXISTING PLANS AND ARE SUBJECT TO CONSTRUCTION VARIATIONS. IT SHALL BE THE CONTRACTOR'S RESPONSIBILITY TO VERIFY SUCH DIMENSIONS AND DETAILS IN THE FIELD. SUCH VARIATIONS SHALL NOT BE CAUSE FOR ADDITIONAL COMPENSATION DUE TO A CHANGE IN THE SCOPE OF WORK. HOWEVER, THE CONTRACTOR WILL BE PAID FOR THE QUANTITY ACTUALLY FURNISHED AT THE AGREED UNIT PRICE BID FOR THE WORK.
- ALL STATION AND OFFSET REFERENCES ARE TO THE ROADWAY CENTERLINE FOR IL185 OVER BAYOU CREEK UNLESS OTHERWISE NOTED. ALL STATION AND OFFSET REFERENCES ARE TO THE BASELINE OF CONSTRUCTION FOR IL185 OVER MCDAVID CREEK UNLESS OTHERWISE NOTED. THE STATE PLANE COORDINATE SYSTEM HAS BEEN USED FOR THE HORIZONTAL CONTROL.
- ALL ELEVATIONS SHOWN ON THE PLANS ARE BASED ON NAVD 88.
- ANY REFERENCE WITHIN THESE PLANS TO A STANDARD SHALL BE INTERPRETED TO MEAN THE LATEST STANDARDS OF THE DEPARTMENT AS SHOWN IN THE PLANS.
- THE ENGINEER SHALL BE THE SOLE JUDGE CONCERNING CURING TIME FOR THE VARIOUS BITUMINOUS LIFTS.
- IF SO DIRECTED BY THE ENGINEER, DITCHES ADJACENT TO EMBANKMENTS SHALL BE CONSTRUCTED PRIOR TO STARTING THE CONSTRUCTION OF THE EMBANKMENT FILL.
- GRADING SHALL BE DONE BY HAND AROUND LIGHT POLES, UTILITY POLES, SIGN POSTS, SHRUBS, TREES OR OTHER NATURAL OR MAN-MADE OBJECTS WHERE SHALLOW FILLS OR CUTS ARE ADJACENT TO THE ITEMS. IT IS THE INTENT THAT THE LIMITS OF CONSTRUCTION BE SUCH AS TO PRESERVE IN THE ORIGINAL STATE AS MUCH AREA OF TEMPORARY EASEMENTS AS POSSIBLE. THE DECISION AS TO ITEMS TO REMAIN IN PLACE SHALL BE DIRECTED BY THE ENGINEER. THIS WORK WILL NOT BE PAID FOR SEPARATELY, BUT SHALL BE CONSIDERED INCLUDED IN THE CONTRACT UNIT PRICE PER CUBIC YARD FOR EARTH EXCAVATION, AND NO ADDITIONAL COMPENSATION WILL BE ALLOWED.

- SEEDING SHALL BE DONE ON ALL AREAS THAT ARE DISTURBED BY CONSTRUCTION OPERATIONS AS DIRECTED BY THE ENGINEER. SEEDING WILL NOT BE PERMITTED AT ANY TIME WHEN THE GROUND IS FROZEN, WET OR IN AN UNTILLABLE CONDITION. SEEDING SHALL BE PAID FOR ONLY WITHIN THE PROPOSED RIGHT-OF-WAY OR EASEMENT LIMITS. ALL AREAS DISTURBED BY THE CONTRACTOR OUTSIDE THE PROPOSED RIGHT-OF-WAY OR EASEMENT LIMITS SHALL BE SEEDDED, AS DIRECTED BY THE ENGINEER, AT THE CONTRACTOR'S EXPENSE.
- FACTORS USED FOR ESTIMATING PLAN QUANTITIES OR USAGE ARE AS FOLLOWS AND SHALL NOT BE USED FOR THE BASIS OF FINAL QUANTITIES:

HMA BINDER COURSE 112 LBS/SQ YD-IN
HMA SURFACE COURSE 112 LBS/SQ YD-IN
HMA SHOULDERS 112 LBS/SQ YD-IN
INCIDENTAL HMA SURFACING 112 LBS/SQ YD-IN
BITUMINOUS MATERIALS (RESIDUAL RATE):
ON PAVEMENT 0.05 LBS/SQ FT
BETWEEN HMA LIFTS (FOG COAT) 0.025 LBS/SQ FT
ON AGGREGATE SURFACE 0.25 LBS/SQ FT
AGGREGATE (PRIME COAT) 3 LBS/SQ YD
AGGREGATE ITEMS EXCEPT RIPRAP 2.05 TONS/CU YD
SEEDING FERTILIZER RATIO (NIT:PHOS:POT) 90:90:90 LBS/ACRE
AGRICULTURAL GROUND LIMESTONE 2 TONS/ACRE
MULCH RATE 2 TONS/ACRE
- THE QUANTITY OF SHORT TERM PAVEMENT MARKING SHOWN IN THE PLANS IS BASED ON ONE APPLICATION EACH FOR THE BINDER COURSE AND SURFACE COURSE.
- ACCESS TO ALL ENTRANCES SHALL BE MAINTAINED AT ALL TIMES. QUANTITIES FOR AGGREGATE FOR TEMPORARY ACCESS HAVE BEEN ESTIMATED FOR THIS WORK. THESE QUANTITIES SHALL BE USED AS DIRECTED BY THE ENGINEER FOR MAINTAINING ACCESS.
- THE DISTRICT BUREAU OF OPERATIONS SHALL BE CONTACTED AT LEAST 21 DAYS PRIOR TO IMPLEMENTING ANY TRAFFIC CONTROL.
- THE DISTRICT BUREAU OF OPERATIONS SHALL BE CONTACTED AT LEAST 14 DAYS PRIOR TO PLACING ANY FINAL AND TEMPORARY PAVEMENT MARKINGS. THE BUREAU OF OPERATIONS WILL APPROVE THE MARKINGS AND ALSO DETERMINE THE ACTUAL LIMITS TO BE STRIPED AS "NO PASSING ZONES."
- ONLY THOSE TREES WITHIN THE CONSTRUCTION LIMITS OR CLEAR ZONE SHALL BE REMOVED. THE CONTRACTOR SHALL PROTECT ALL REMAINING TREES, PLANTS, AND WETLANDS FROM DAMAGE. ALL TREES AND STUMPS INDICATED ON THE PLANS FOR REMOVAL SHALL BE REMOVED AND DISPOSED OF BY THE CONTRACTOR.
- WHERE PROPOSED CONSTRUCTION ABUTS EXISTING APPURTENANCES, A FULL DEPTH SAW CUT ACCORDING TO SECTION 440 SHALL BE MADE TO ACHIEVE A NEAT JOINT. SAW CUTS WILL NOT BE MEASURED FOR PAYMENT. SAW CUTS FOR REMOVAL ITEMS AND HMA SURFACE REMOVAL SHALL BE CONSIDERED INCLUDED IN THE ITEM BEING REMOVED OR CONSTRUCTED.
- THE CONTRACTOR SHALL VERIFY ALL DIMENSIONS AND CONDITIONS IN THE FIELD PRIOR TO CONSTRUCTION AND ORDERING OF MATERIALS.
- ALL OPENINGS IN PRECAST STRUCTURES, INCLUDING BOX CULVERTS, SHALL BE PRECAST TO THE PROPER SIZE. THIS INCLUDES OPENINGS FOR PIPE STRUCTURES, MANHOLE OPENINGS AND OPENINGS FOR PIPE UNDERDRAINS. COSTS FOR THESE OPENINGS AND THE CONNECTIONS SHALL BE CONSIDERED INCLUDED IN THE VARIOUS PAY ITEMS FOR THE STRUCTURES INVOLVED.
- WHERE SECTION OR SUB-SECTION MARKERS ARE ENCOUNTERED, THE ENGINEER SHALL BE NOTIFIED BEFORE SUCH MONUMENTS ARE REMOVED. THE CONTRACTOR SHALL PROTECT AND CAREFULLY PRESERVE ALL PROPERTY MARKERS AND MONUMENTS UNTIL THE OWNER, AN AUTHORIZED AGENT OR LAND SURVEYOR HAS WITNESSED OR OTHERWISE REFERENCED THEIR LOCATION. THE CONTRACTOR SHALL BE RESPONSIBLE FOR HAVING AN AUTHORIZED SURVEYOR RE-ESTABLISH ANY SECTION OR SUBSECTION MONUMENT DAMAGED BY HIS OPERATIONS.

- EXISTING RAISED REFLECTIVE PAVEMENT MARKERS SHALL BE REMOVED PRIOR TO MILLING HMA SURFACES. RAISED REFLECTIVE PAVEMENT MARKERS REMOVAL WILL NOT BE PAID FOR SEPARATELY BUT SHALL BE CONSIDERED AS INCLUDED WITH THE BITUMINOUS SURFACE REMOVAL.
- THE THICKNESS OF HOT-MIX ASPHALT SHOWN ON THE PLANS IS THE NOMINAL THICKNESS. DEVIATIONS FROM THE NOMINAL THICKNESS WILL BE PERMITTED WHEN SUCH DEVIATIONS OCCUR DUE TO IRREGULARITIES IN THE EXISTING SURFACE OR BASE ON WHICH THE HOT-MIX ASPHALT IS PLACED.
- THE CONTRACTOR WILL BE REQUIRED TO REPAIR AREAS THAT ARE DAMAGED DUE TO THE CONTRACTOR'S OPERATIONS DURING THE EXECUTION OF THIS CONTRACT OR AS DIRECTED BY THE ENGINEER. THIS WORK WILL NOT BE MEASURED FOR PAYMENT AND WILL BE AT THE EXPENSE OF THE CONTRACTOR.
- EXISTING ROAD SIGNS THAT CONFLICT WITH CONSTRUCTION SHALL BE COVERED OR REMOVED AS DIRECTED BY THE ENGINEER. AFTER THE CONSTRUCTION IS COMPLETED, THE CONTRACTOR WILL UNCOVER OR REPLACE THE SIGNS AS DIRECTED BY THE ENGINEER. THIS WORK WILL NOT BE PAID FOR SEPARATELY BUT SHALL BE CONSIDERED INCLUDED IN THE CONTRACT.
- ABANDONED UNDERGROUND UTILITIES THAT CONFLICT WITH CONSTRUCTION SHALL BE DISPOSED OUTSIDE THE LIMITS OF THE RIGHT-OF-WAY ACCORDING TO ARTICLE 202.03 OF THE STANDARD SPECIFICATIONS AND AS DIRECTED BY THE ENGINEER. THIS WORK WILL NOT BE PAID FOR SEPARATELY BUT SHALL BE CONSIDERED INCLUDED IN THE COST OF EARTH EXCAVATION AND NO ADDITIONAL COMPENSATION WILL BE ALLOWED.
- THE REPLACEMENT OF DAMAGED TEMPORARY PAVEMENT MARKING FOR ANY OF THE TRAFFIC CONTROL STANDARDS WILL NOT BE PAID FOR SEPARATELY. THE REPLACEMENT COST SHALL BE CONSIDERED INCLUDED IN THE COST OF THE TRAFFIC CONTROL STANDARD.
- BARRIER WALL AND GUARDRAIL REFLECTORS SHALL BE INSTALLED PRIOR TO SWITCHING STAGE TRAFFIC. VERTICAL PANELS SHOWN ON STANDARD 701321 AND AS SHOWN WILL STILL BE REQUIRED FOR STAGE II TRAFFIC.
- THE CONTRACTOR SHALL TRIM EXISTING SURFACE AND BASE TO A FIRM, NEAR VERTICAL PLANE BEFORE CONSTRUCTING THE HMA WIDENING. COST INCLUDED WITH HMA WIDENING.
- QUANTITIES SHOWN IN THE PLANS FOR BRIDGE DECK GROOVING AND PROTECTIVE COAT INCLUDE THE BRIDGE AND THE BRIDGE APPROACH SLABS.
- EXCAVATING AND CONSTRUCTING THE BENCH CUTS AS SHOWN ON THE DISTRICT 6 STANDARD (SLOPE STEPS DETAIL) WILL NOT BE PAID FOR SEPARATELY BUT SHALL BE CONSIDERED AS INCLUDED WITH THE CONTRACT UNIT PRICE, CUBIC YARD, FOR EARTH EXCAVATION.
- AGGREGATE DITCH CHECKS SHALL BE OPTION 1 AS INDICATED ON SHEET 41 OR AS DIRECTED BY THE ENGINEER. THE AGGREGATE DITCH CHECKS SHALL BE LEVELED OUT AND BECOME PART OF THE RIPRAP DITCH LINING AS DIRECTED BY THE ENGINEER. COST INCLUDED WITH AGGREGATE DITCH CHECKS.
- PAVED DITCH REMOVAL SHALL INCLUDE BOTH CONCRETE OR RIPRAP DITCH LINING.

COMMITMENTS

THE RESIDENT ENGINEER SHALL CONTACT STUDIES AND PLANS CONCERNING ANY MAJOR PLAN CHANGES TO ENSURE NO PREVIOUS COMMITMENTS (NOT LISTED) WERE MADE AFFECTING THE DESIGN AND TO ALLOW IMPROVEMENTS IN THE DESIGN OF FUTURE PROJECTS.

THERE ARE NO COMMITMENTS AT THIS TIME.

UTILITY COMPANIES

AMEREN ILLINOIS
1915 OLD BUS LINE ROAD
P.O. BOX 579
HILLSBORO, IL 62049
ATTN: DEBORAH LEWEY

FRONTIER COMMUNICATIONS
225 NORTH BROAD ROAD
CARLINVILLE, IL 62626
ATTN: GREG KING

CITY OF COFFEEN
107 LOCUST STREET
COFFEEN, IL 62017
ATTN: JOHN HORSTMANN

MJM ELECTRIC
284 NORTH EAST ST.
P.O. BOX 80
CARLINVILLE, IL 62626

MIXTURE REQUIREMENTS

MIXTURE USE(S):	SURFACE COURSE	BINDER COURSE	HMA SHOULDER (SURFACE LIFT)	HMA SHOULDER (LOWER LIFTS)	INCIDENTAL HMA SURFACING	BASE COURSE WIDENING
PG:	PG 64-22	PG 64-22	PG 64-22	PG 64-22	PG 64-22	PG 64-22
DESIGN AIR VOIDS:	4.0% @ N=50	4.0% @ N=50	4.0% @ N=50	4.0% @ N=50	4.0% @ N=50	4.0% @ N=50
MIXTURE COMPOSITION:	IL 9.5	IL 19.0	IL 9.5	IL 19.0	IL 9.5	IL 19.0
FRICTION AGGREGATE:	MIXTURE C	N.A.	MIXTURE C	N.A.	MIXTURE C	N.A.
QUALITY MANAGEMENT:	QC/QA	QC/QA	QC/QA	QC/QA	QC/QA	QC/QA



USER NAME * g.jameson	DESIGNED -	REVISED
FILE NAME * 0672008-SHT-GENERAL	CHECKED -	REVISED
PLOT SCALE * 10.0000 "/>		
PLOT DATE * 10/15/2015	CHECKED -	REVISED

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

GENERAL NOTES AND COMMITMENTS

SCALE: NTS	SHEET NO. 1 OF 1 SHEETS	STA. TO STA.	F.A.P. RTE. 777	SECTION 108-2, 405B-1	COUNTY MONTGOMERY	TOTAL SHEETS 121	SHEET NO. 3
CONTRACT NO. 72008							
ILLINOIS FED. AID PROJECT							

	ITEM	UNIT	TOTAL QUANTITY	CONSTRUCTION CODE			
				FEDERAL FUNDS			
				80% FEDERAL / 20% STATE			
				RDWY		BRIDGE	
0004		0011					
6-00392-0000	6-00635-0000	6-00392-0000	6-00635-0000				
MCDavid	BAYOU	MCDavid	BAYOU				
20100500	TREE REMOVAL, ACRES	ACRE	0.4	0.3	0.1		
20200100	EARTH EXCAVATION	CU YD	1,532	660	872		
20300100	CHANNEL EXCAVATION	CU YD	1,065	379	686		
20400800	FURNISHED EXCAVATION	CU YD	1,079	0	1079		
20800150	TRENCH BACKFILL	CU YD	22	0	22		
25000200	SEEDING, CLASS 2	ACRE	2.1	0.6	1.5		
25000400	NITROGEN FERTILIZER NUTRIENT	POUND	306	91	215		
25000500	PHOSPHORUS FERTILIZER NUTRIENT	POUND	306	91	215		
25000600	POTASSIUM FERTILIZER NUTRIENT	POUND	306	91	215		
25000700	AGRICULTURAL GROUND LIMESTONE	TON	7.0	2.0	5.0		
25003200	INTERSEEDING, CLASS 2	ACRE	1.3	0.4	0.9		
25100115	MULCH, METHOD 2	ACRE	0.7	0.1	0.6		
25100630	EROSION CONTROL BLANKET	SQ YD	7,170	2,412	4,758		
28000250	TEMPORARY EROSION CONTROL SEEDING	POUND	615	156	459		

design firm
no. 184001036



USER NAME • g.jameson	DESIGNED -	REVISED
FILE NAME • D672008-SHT-SDD.dgn	CHECKED -	REVISED
PLOT SCALE • 10.0000' / IN.	DRAWN -	REVISED
PLOT DATE • 10/15/2015	CHECKED -	REVISED

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

SUMMARY OF QUANTITIES

NTS SHEET NO. 1 OF 9 SHEETS STA. TO STA.

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
777	10B-2, 405B-1	MONTGOMERY	121	4
ILLINOIS FED. AID PROJECT			CONTRACT NO. 72008	

	ITEM	UNIT	TOTAL QUANTITY	CONSTRUCTION CODE			
				FEDERAL FUNDS			
				80% FEDERAL /20% STATE			
				RDWY		BRIDGE	
0004		0011					
6-00392-0000	6-00635-0000	6-00392-0000	6-00635-0000				
MCDAVID	BAYOU	MCDAVID	BAYOU				
28000315	AGGREGATE DITCH CHECKS	TON	152	64	88		
28000400	PERIMETER EROSION BARRIER	FOOT	2,573	1,120	1,453		
28000500	INLET AND PIPE PROTECTION	EACH	3	0	3		
28100107	STONE RIPRAP, CLASS A4	SQ YD	3,920	1,568	2,352		
28100109	STONE RIPRAP, CLASS A5	SQ YD	1,770			955	815
28200200	FILTER FABRIC	SQ YD	5,690	1,568	2,352	955	815
35100700	AGGREGATE BASE COURSE, TYPE A, 8"	SQ YD	122	0	122		
35650500	BASE COURSE WIDENING 10"	SQ YD	1,428	709	719		
40200800	AGGREGATE SURFACE COURSE, TYPE B	TON	188	55	133		
40201000	AGGREGATE FOR TEMPORARY ACCESS	TON	34	0	34		
40600275	BITUMINOUS MATERIALS (PRIME COAT)	POUND	4,929	1,342	3,587		
40600990	TEMPORARY RAMP	SQ YD	438	180	258		
40600625	LEVELING BINDER (MACHINE METHOD), N50	TON	59	18	41		
40603080	HMA BINDER COURSE, IL-19.0, N50	TON	615	72	543		



USER NAME	• g.johnson	DESIGNED	-	REVISED
FILE NAME	• 0672008-SHT-500.dgn	CHECKED	-	REVISED
PLOT SCALE	• 10.0000 / IN	DRAWN	-	REVISED
PLOT DATE	• 10/15/2015	CHECKED	-	REVISED

**STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION**

SUMMARY OF QUANTITIES

NTS SHEET NO. 2 OF 9 SHEETS STA. TO STA.

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
777	10B-2, 405B-1	MONTGOMERY	121	5
ILLINOIS FED. AID PROJECT			CONTRACT NO. 72D08	

	ITEM	UNIT	TOTAL QUANTITY	CONSTRUCTION CODE			
				FEDERAL FUNDS			
				80% FEDERAL /20% STATE			
				RDWY		BRIDGE	
				0004		0011	
6-00392-0000	6-00635-0000	6-00392-0000	6-00635-0000				
MCDAVID	BAYOU	MCDAVID	BAYOU				
40603310	HMA SURFACE COURSE, MIX "C", N50	TON	395	137	258		
40800050	INCIDENTAL HMA SURFACING	TON	35	10	25		
42001430	BRIDGE APPROACH CONNECTOR PAVEMENT (FLEXIBLE)	SQ YD	166	87	79		
44000100	PAVEMENT REMOVAL	SQ YD	600	276	324		
44000200	DRIVEWAY PAVEMENT REMOVAL	SQ YD	122	0	122		
44004000	PAVED DITCH REMOVAL	FOOT	430	0	430		
44004250	PAVED SHOULDER REMOVAL	SQ YD	734	469	265		
48101200	AGGREGATE SHOULDERS, TYPE B	TON	386	222	164		
48102100	AGGREGATE WEDGE SHOULDERS, TYPE B	TON	66	11	55		
48203100	HOT-MIX ASPHALT SHOULDERS	TON	359	133	226		
50100300	REMOVAL OF EXISTING STRUCTURE NO. 1	EACH	1			1	
50100400	REMOVAL OF EXISTING STRUCTURE NO. 2	EACH	1				1
50100500	REMOVAL OF EXISTING STRUCTURES NO. 3	EACH	1	1			
50100600	REMOVAL OF EXISTING STRUCTURES NO. 4	EACH	1	1			

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USER NAME * g.jameson	DESIGNED -	REVISED
FILE NAME * D672008-SHT-500.dgn	CHECKED -	REVISED
PLDT SCALE * 10.0000' / IN.	DRAWN -	REVISED
PLDT DATE * 10/15/2015	CHECKED -	REVISED

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

SUMMARY OF QUANTITIES

NTS SHEET NO. 3 OF 9 SHEETS STA. TO STA.

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
777	108-2, 405B-1	MONTGOMERY	121	6
CONTRACT NO. 72D08				
ILLINOIS FED. AID PROJECT				

	ITEM	UNIT	TOTAL QUANTITY	CONSTRUCTION CODE			
				FEDERAL FUNDS			
				80% FEDERAL /20% STATE			
				RDWY		BRIDGE	
				0004		0011	
6-00392-0000	6-00635-0000	6-00392-0000	6-00635-0000				
MCDAVID	BAYOU	MCDAVID	BAYOU				
50105220	PIPE CULVERT REMOVAL	FOOT	211	80	131		
50200100	STRUCTURE EXCAVATION	CU YD	501			266	235
50300100	FLOOR DRAINS	EACH	5				5
50300225	CONCRETE STRUCTURES	CU YD	135.0			69.0	66.0
50300255	CONCRETE SUPERSTRUCTURE	CU YD	470.3			241.1	229.2
50300260	BRIDGE DECK GROOVING	SQ YD	984			509	475
50300300	PROTECTIVE COAT	SQ YD	1,235			631	604
50500105	FURNISHING AND ERECTING STRUCTURAL STEEL	L SUM	1			0.45	0.55
50500505	STUD SHEAR CONNECTORS	EACH	2,970			1,404	1,566
50800205	REINFORCEMENT BARS, EPOXY COATED	FOUND	122,730			63,700	59,030
50800515	BAR SPLICERS	EACH	1,011			507	504
51200959	FURNISHING METAL SHELL PILES 14" X 0.312"	FOOT	695			695	
51201600	FURNISHING STEEL PILES HP12X53	FOOT	400				400
51202305	DRIVING PILES	FOOT	1,095			695	400

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FILE NAME • 0672008-SHT-500.dgn	CHECKED •	REVISED
PLOT SCALE • 10.0000" = 1"	DRAWN •	REVISED
PLOT DATE • 10/15/2015	CHECKED •	REVISED

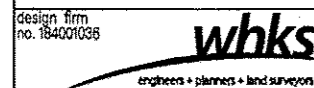
STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

SUMMARY OF QUANTITIES

NTS SHEET NO. 4 OF 9 SHEETS STA. TO STA.

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
777	10B-2, 405B-1	MONTGOMERY	121	7
ILLINOIS FED. AID PROJECT			CONTRACT NO. 72D08	

	ITEM	UNIT	TOTAL QUANTITY	CONSTRUCTION CODE			
				FEDERAL FUNDS			
				80% FEDERAL /20% STATE			
				RDWY		BRIDGE	
0004		0011					
6-00392-0000	6-00635-0000	6-00392-0000	6-00635-0000				
MCDAVID	BAYOU	MCDAVID	BAYOU				
51203200	TEST PILE METAL SHELLS	EACH	2			2	
51203600	TEST PILE STEEL HP12X53	EACH	2				2
51204650	PILE SHOES	EACH	18			6	12
51500100	NAME PLATES	EACH	2			1	1
52100520	ANCHOR BOLTS, 1"	EACH	48			24	24
54215547	METAL END SECTIONS 12"	EACH	3	2	1		
54215550	METAL END SECTIONS 15"	EACH	2	0	2		
54215559	METAL END SECTIONS 24"	EACH	2	2	0		
54215565	METAL END SECTIONS 30"	EACH	2	0	2		
54215571	METAL END SECTIONS 36"	EACH	2	0	2		
542D0220	PIPE CULVERTS, CLASS D, TYPE 1 15"	FOOT	77	0	77		
542D0229	PIPE CULVERTS, CLASS D, TYPE 1 24"	FOOT	48	48	0		
542D0235	PIPE CULVERTS, CLASS D, TYPE 1 30"	FOOT	66	0	66		
542D0241	PIPE CULVERTS, CLASS D, TYPE 1 36"	FOOT	50	0	50		



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FILE NAME * 0672008-SHT-500.dgn	CHECKED -	REVISED
PLOT SCALE * 10,0000 / IN.	DRAWN -	REVISED
PLOT DATE * 10/15/2015	CHECKED -	REVISED

**STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION**

SUMMARY OF QUANTITIES

NTS SHEET NO. 5 OF 9 SHEETS STA. TO STA.

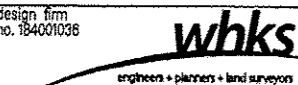
F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
777	10B-2, 405B-1	MONTGOMERY	121	8
ILLINOIS FED. AID PROJECT			CONTRACT NO. 72008	

	ITEM	UNIT	TOTAL QUANTITY	CONSTRUCTION CODE			
				FEDERAL FUNDS			
				80% FEDERAL /20% STATE			
				ROWY		BRIDGE	
0004		0011					
6-00392-0000	6-00635-0000	6-00392-0000	6-00635-0000				
MCDAVID	BAYOU	MCDAVID	BAYOU				
59100100	GEOCOMPOSITE WALL DRAIN	SQ YD	142			74	68
60100945	PIPE DRAINS 12"	FOOT	30	20	10		
61000335	TYPE G INLET BOX, STANDARD 610001	EACH	3	2	1		
* 63000001	STEEL PLATE BEAM GUARDRAIL, TYPE A, 6-FOOT POSTS	FOOT	612.5	337.5	275.0		
* 63100085	TRAFFIC BARRIER TERMINAL, TYPE 6	EACH	8	4	4		
* 63100167	TRAFFIC BARRIER TERMINAL, TYPE 1 (SPECIAL) TANGENT	EACH	7	4	3		
63200310	GUARDRAIL REMOVAL	FOOT	1,863	1,020	843		
66201120	CONCRETE SHOULDER CURB	FOOT	45	30	15		
66600105	FURNISHING AND ERECTING ROW MARKERS	EACH	8	4	4		
67000400	ENGINEER'S FIELD OFFICE, TYPE A	CAL MO	8	4	4		
67100100	MOBILIZATION	L SUM	1	0.5	0.5		
70100405	TRAFFIC CONTROL AND PROTECTION, STANDARD 701321	EACH	2	1	1		
70100450	TRAFFIC CONTROL AND PROTECTION, STANDARD 701201	L SUM	1	0.5	0.5		
70100460	TRAFFIC CONTROL AND PROTECTION, STANDARD 701306	L SUM	1	0.5	0.5		

* SPECIALTY ITEM

	ITEM	UNIT	TOTAL QUANTITY	CONSTRUCTION CODE			
				FEDERAL FUNDS			
				80% FEDERAL / 20% STATE			
				RDWY 0004		BRIDGE 0011	
6-00392-0000	6-00635-0000	6-00392-0000	6-00635-0000				
MCDAVID	BAYOU	MCDAVID	BAYOU				
70100500	TRAFFIC CONTROL AND PROTECTION, STANDARD 701326	L SUM	1	0.5	0.5		
70101830	TRAFFIC CONTROL AND PROTECTION, STANDARD BLR 21	LSUM	1	0	1		
70103815	TRAFFIC CONTROL SURVEILLANCE	CAL DA	10	5	5		
70106500	TEMPORARY BRIDGE TRAFFIC SIGNALS	EACH	2	1	1		
70106700	TEMPORARY RUMBLE STRIPS	EACH	24	12	12		
70106800	CHANGEABLE MESSAGE SIGN	CAL MO	32	16	16		
70300100	SHORT-TERM PAVEMENT MARKING	FOOT	6,920	2,720	4,200		
70300230	TEMPORARY PAVEMENT MARKING - LINE 5"	FOOT	4,994	2,420	2,574		
70300280	TEMPORARY PAVEMENT MARKING - LINE 24"	FOOT	100	48	52		
70301000	WORK ZONE PAVEMENT MARKING REMOVAL	SQ FT	7,908	3,108	4,800		
70400100	TEMPORARY CONCRETE BARRIER	FOOT	875	475	400		
70400200	RELOCATE TEMPORARY CONCRETE BARRIER	FOOT	825	425	400		
70500100	TEMPORARY STEEL PLATE BEAM GUARDRAIL, TYPE A	FOOT	612.5	337.5	275.0		
70500665	TEMPORARY TRAFFIC BARRIER TERMINAL, TYPE 6	EACH	8	4	4		

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FILE NAME * D672008-SHT-SDD.dgn	CHECKED -	REVISED
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PLOT DATE * 10/15/2015	CHECKED -	REVISED

**STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION**

SUMMARY OF QUANTITIES

NTS SHEET NO. 7 OF 9 SHEETS STA. TO STA.

F.A.P. RTE. 777	SECTION 10B-2, 405B-1	COUNTY MONTGOMERY	TOTAL SHEETS 121	SHEET NO. 10
CONTRACT NO. 72008			ILLINOIS FED. AID PROJECT	

	ITEM	UNIT	TOTAL QUANTITY	CONSTRUCTION CODE				
				FEDERAL FUNDS				
				80% FEDERAL /20% STATE				
				RDWY		BRIDGE		
0004		0011						
6-00392-0000	6-00635-0000	6-00392-0000	6-00635-0000					
MCDAVID	BAYOU	MCDAVID	BAYOU					
	70600260	IMPACT ATTENUATORS TEMPORARY (FULLY REDIRECTIVE, NARROW) TEST LEVEL 3	EACH	6	2	4		
	70600332	IMPACT ATTENUATORS, RELOCATE (FULLY REDIRECTIVE) TEST LEVEL 3	EACH	6	2	4		
*	78001120	PAINT PAVEMENT MARKING - LINE 5"	FOOT	7,626	2,526	5,100		
*	78100100	RAISED REFLECTIVE PAVEMENT MARKERS	EACH	24	9	15		
*	78200410	GUARDRAIL MARKERS, TYPE A	EACH	23	11	12		
*	78200530	BARRIER WALL MARKERS, TYPE C	EACH	8	4	4		
*	78201000	TERMINAL MARKER - DIRECT APPLIED	EACH	7	4	3		
	78300100	PAVEMENT MARKING REMOVAL	SQ FT	3,053	1,053	2,000		
	Z0001900	ASBESTOS BEARING PAD REMOVAL	EACH	46			26	20
	Z0004552	APPROACH SLAB REMOVAL	SQ YD	296	149	147		
	Z0013798	CONSTRUCTION LAYOUT	L SUM	1	0.5	0.5		
	Z0046304	PIPE UNDERDRAINS FOR STRUCTURES 4"	FOOT	334			168	166
∅	Z0076600	TRAINEES	Hour	1000			500	500
	Z0073002	TEMPORARY SOIL RETENTION SYSTEM	SQ FT	1,073			538	535
∅	Z0076604	TRAINEES TRAINING PROGRAM GRADUATE	Hour	1000			500	500
	X0322584	REVTMENT MAT REMOVAL	SQ YD	61	61	0		

* SPECIALTY ITEM
∅ 0042

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USER NAME * gjameson	DESIGNED -	REVISED
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PLOT SCALE * 10.0000 / IN	DRAWN -	REVISED
PLOT DATE * 10/15/2015	CHECKED -	REVISED

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

SUMMARY OF QUANTITIES

NTS SHEET NO. 8 OF 9 SHEETS STA. TO STA.

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
777	108-2. 4058-1	MONTGOMERY	121	11
CONTRACT NO. 72D08				
ILLINOIS FED. AID PROJECT				

EROSION CONTROL SCHEDULE									
LOCATION		28000315	28000400	28000500					
		AGGREGATE DITCH CHECKS	PERIMETER EROSION BARRIER	INLET AND PIPE PROTECTION					
		TON	FOOT	EACH					
MCDAVID BRANCH									
308+25.00	RT		4						
308+75.00	RT		4						
309+50.00	RT		4						
309+80.00	RT		4						
311+00.00	RT		4						
311+75.00	RT		4						
312+25.00	RT		4						
308+25.00	LT		4						
308+65.00	LT		4						
309+00.00	LT		4						
309+50.00	LT		4						
309+75.00	LT		4						
311+00.00	LT		4						
311+50.00	LT		4						
312+00.00	LT		4						
312+35.00	LT		4						
307+06.00	RT	TO 307+50.00		RT	44				
308+23.00	RT	TO 310+08.00		RT	185				
310+40.00	RT	TO 313+14.00		RT	274				
307+06.00	LT	TO 307+86.00		LT	80				
307+50.00	LT	TO 310+46.00		LT	296				
310+73.00	LT	TO 313+04.00		LT	241				
TOTAL			64	1,120	0				

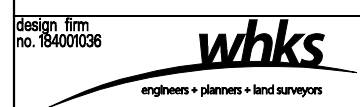
TRAFFIC CONTROL SCHEDULE									
LOCATION		70400100	70400200	70600260	70600332				
		TEMPORARY CONCRETE BARRIER	RELOCATE TEMPORARY CONCRETE BARRIER	IMPACT ATTENUATORS TEMPORARY (FULLY REDIRECTIVE, NARROW) TEST LEVEL 3	IMPACT ATTENUATORS, RELOCATE (FULLY REDIRECTIVE) TEST LEVEL 3				
		FOOT	FOOT	EACH	EACH				
MCDAVID									
STAGE I									
307+63.00		TO 312+37.20		475		2			
STAGE II									
308+12.80		TO 312+37.20			425			2	
TOTAL				475	425	2	2		
BAYOU									
STAGE I									
490+80.50		TO 495+79.50		400		4			
STAGE II									
490+72.00		TO 495+77.00			400			4	
TOTAL				400	400	4	4		

PAVING SCHEDULE													
LOCATION				35650500	40600275	40600990	40600625	40603080	40603310	42001430	48101200	48102100	48203100
				BASE COURSE WIDENING 10"	BITUMINOUS MATERIALS (PRIME COAT)	TEMPORARY RAMP	LEVELING BINDER (MACHINE METHOD), N50	HMA BINDER COURSE, IL-19.0, N50	HMA SURFACE COURSE, MIX "C", N50	BRIDGE APPROACH CONNECTOR PAVEMENT (FLEXIBLE)	AGGREGATE SHOULDERS, TYPE B	AGGREGATE WEDGE SHOULDERS, TYPE B	HOT-MIX ASPHALT SHOULDERS
				SQ YD	POUND	SQ YD	TON	TON	TON	SQ YD	TON	TON	TON
MCDAVID BRANCH													
307+05.00		TO 307+40.00		63					10.6				4
307+05.00	LT	TO 308+01.00	LT									8	
307+40.00		TO 307+90.00		135			6						
307+40.00		TO 309+57.70							52.8				38
307+90.00		TO 308+25.00		126			8						6
308+25.00		TO 309+57.70		478		120		72					46
309+57.70		TO 309+63.70								24			
310+97.70		TO 311+12.70								63			
311+12.70		TO 311+55.00		114		60	5		10.3				10
311+55.00		TO 311+75.00		36					5.3				4
311+75.00		TO 312+00.00		45					7.6				4
312+00.00		TO 312+35.00		63					9.9				
312+35.00		TO 313+23.00		158									
312+35.00		TO 314+00.00							40.0				
312+60.00	RT	TO 312+91.00	RT									3	
313+23.00		TO 314+00.00		123									
312+00.00	RT	TO 312+35.00	RT										6
312+35.00	RT	TO 312+91.00	RT										4
313+23.00	RT	TO 313+70.00	RT										1
313+70.00	RT	TO 314+00.00	RT										1
312+35.00	LT	TO 313+01.00	LT										4
313+33.00	LT	TO 313+47.00	LT										2
313+47.00	LT	TO 313+70.00	LT										2
313+70.00	LT	TO 314+00.00	LT										1
PRESTAGE													
307+05.00	LT	TO 307+22.70	LT	8									
307+22.70	LT	TO 309+90.00	LT	149									
310+72.00	LT	TO 312+98.00	LT	126									
STAGE I													
307+05.00	RT	TO 307+37.00	RT	17									
307+05.00	RT	TO 309+65.00	RT								52		
307+37.00	RT	TO 309+63.70	RT	177									
308+01.00	LT	TO 308+25.00	LT								2		
308+25.00	LT	TO 309+65.00	LT								28		
311+11.50	RT	TO 312+36.00	RT								25		
311+12.70	RT	TO 312+86.80	RT	136									
312+36.00	RT	TO 312+60.00	RT								2		
311+11.50	LT	TO 313+06.00	LT								39		
STAGE II													
307+05.00	RT	TO 309+65.00	RT								39		
307+22.70	LT	TO 307+37.00	LT	2									
307+37.00	LT	TO 309+63.70	LT	51									
308+01.00	LT	TO 308+25.00	LT								2		
308+25.00	LT	TO 309+65.00	LT								21		
311+11.50	RT	TO 312+36.00	RT								5		
312+36.00	RT	TO 312+60.00	RT								0.4		
311+11.50	LT	TO 313+06.00	LT								7		
311+12.70	LT	TO 313+02.00	LT	43									
TOTAL				709	1342	180	18	72	137	87	222	11	133

PAVING SCHEDULE												
LOCATION		35650500	40600275	40600990	40600625	40603080	40603310	42001430	48101200	48102100	48203100	
		BASE COURSE WIDENING 10"	BITUMINOUS MATERIALS (PRIME COAT)	TEMPORARY RAMP	LEVELING BINDER (MACHINE METHOD), N50	HMA BINDER COURSE, IL-19.0, N50	HMA SURFACE COURSE, MIX "C", N50	BRIDGE APPROACH CONNECTOR PAVEMENT (FLEXIBLE)	AGGREGATE SHOULDERS, TYPE B	AGGREGATE WEDGE SHOULDERS, TYPE B	HOT-MIX ASPHALT SHOULDERS	
		SQ YD	POUND	SQ YD	TON	TON	TON	SQ YD	TON	TON	TON	
BAYOU CREEK												
485+60.00			40				7.0				2	
485+60.00	RT TO	486+33.00							6			
486+73.00	RT TO	488+83.00							16			
485+60.00	LT TO	488+15.50							20			
488+45.50	LT TO	490+16.00							13			
485+85.00		486+10.00	60		3		5.6				4	
486+10.00		486+25.00	48		4		3.4				2	
486+25.00		491+93.31	2273	172		471	127.3				130	
491+93.31		491+99.31						23				
493+42.00		493+57.00						56				
493+55.69		494+51.80	365	86		72	21.5					
494+51.80		495+60.00	411		26		24.2				26	
495+60.00		496+30.37	201		9		15.8				12	
496+30.37		497+30.00	189				27.9				18	
488+83.00	RT TO	489+07.00						2				
489+07.00	RT TO	492+11.00						61				
490+16.00	LT TO	490+40.00						2				
490+40.00	LT TO	492+19.00						36				
493+22.00	RT TO	493+86.21						13				
493+86.21	RT TO	494+06.00						11				
493+31.00	LT TO	493+66.28						7				
493+66.28	LT TO	494+07.75						33				
493+55.69	RT TO	494+95.00									17	
494+95.00	RT TO	495+51.80									9	
493+55.69	LT TO	493+69.00									3	
PRESTAGE												
485+60.00	LT TO	485+75.00	3									
485+75.00	LT TO	485+91.00	10									
485+91.00	LT TO	486+11.00	20									
486+11.00	LT TO	486+34.00	20									
486+34.00	LT TO	492+50.00	377									
493+81.00	LT TO	494+03.00	8									
494+27.00	LT TO	494+45.00	8									
STAGE I												
485+60.00	RT TO	492+00.00	271									
493+87.00	RT TO	494+01.00	2									
E. 18TH STREET												
10+13.00		10+50.00					13.3					
10+30.00		10+42.00									3	
10+50.00		10+80.00					5.9					
10+50.00		10+80.00					5.9					
TOTAL			719	3587	258	41	543	258	79	164	55	226

EROSION CONTROL SCHEDULE				
LOCATION		28000315	28000400	28000500
		AGGREGATE DITCH CHECKS	PERIMETER EROSION BARRIER	INLET AND PIPE PROTECTION
		TON	FOOT	EACH
BAYOU CREEK				
486+28.00	RT			1
487+17.00	RT	4		
487+42.00	RT	4		
487+67.00	RT	4		
487+92.00	RT	4		
488+67.00	RT	4		
489+42.00	RT	4		
490+17.00	RT	4		
491+15.00	RT	4		
493+50.00	RT	4		
494+49.00	RT			1
495+00.00	RT	4		
485+80.00	LT	4		
486+00.00	LT	4		
486+20.00	LT	4		
486+40.00	LT	4		
486+70.00	LT	4		
487+00.00	LT	4		
487+30.00	LT	4		
487+60.00	LT	4		
488+05.00	LT			1
488+85.00	LT	4		
489+70.00	LT	4		
490+45.00	LT	4		
491+50.00	LT	4		
486+59.00	RT TO	491+91.00	RT	532
491+91.00	RT TO	494+05.00	RT	214
494+20.00	RT TO	494+44.00	RT	24
484+50.00	LT TO	488+22.00	LT	372
488+39.00	LT TO	490+28.00	LT	189
493+51.00	LT TO	494+07.00	LT	78
494+27.00	LT TO	494+71.00	LT	44
TOTAL		88	1,453	3

ENTRANCE, MAILBOX TURNOUT, AND SIDEROAD SCHEDULE					
LOCATION		35100700	40200800	40201000	40800050
		AGGREGATE BASE COURSE, TYPE A, 8"	AGGREGATE SURFACE COURSE, TYPE B	AGGREGATE FOR TEMPORARY ACCESS	INCIDENTAL HMA SURFACING
		SQ YD	TON	TON	TON
MCDAVID BRANCH					
313+10.00	RT		17		4
313+30.00	LT		38		6
TOTAL		0	55	0	10
BAYOU CREEK					
486+52.00	RT	122			17
488+31.00	LT		55	34	8
494+15.85	RT		78		
TOTAL		122	133	34	25



USER NAME = gjameson	DESIGNED -	REVISED
FILE NAME = D672D08-SHT-SCHEDULE	CHECKED -	REVISED
PLOT SCALE = 10.0000' / IN.	DRAWN -	REVISED
PLOT DATE = 10/21/2015	CHECKED -	REVISED

**STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION**

SCHEDULE OF QUANTITIES	
SCALE: NTS	SHEET NO. 2 OF 6 SHEETS STA. TO STA.

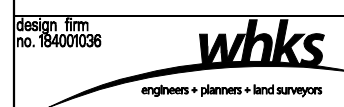
F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
777	10B-2, 405B-1	MONTGOMERY	121	14
ILLINOIS FED. AID PROJECT			CONTRACT NO. 72D08	

REMOVAL SCHEDULE													
LOCATION	44000100	X4401198	44000200	44004000	44004250	Z0004552	X0322584	50100500	50100600				
	PAVEMENT REMOVAL	HOT-MIX ASPHALT SURFACE REMOVAL, VAR DEPTH	DRIVEWAY PAVEMENT REMOVAL	PAVED DITCH REMOVAL	PAVED SHOULDER REMOVAL	APPROACH SLAB REMOVAL	REVTMENT MAT REMOVAL	REMOVAL OF EXISTING STRUCTURES NO. 3	REMOVAL OF EXISTING STRUCTURES NO. 4				
	SQ YD	SQ YD	SQ YD	FOOT	SQ YD	SQ YD	SQ YD	EACH	EACH				
MCDAVID BRANCH													
307+05.00	RT	TO	310+10.00	RT									
307+05.00	LT	TO	310+10.00	LT			102						
307+05.00		TO	307+90.00							323			
307+86.00	RT	TO	308+28.00	RT				42					
309+54.00	RT							1					
309+54.00	LT									1			
309+57.70		TO	310+10.00							128			
309+89.90		TO	310+10.00				74						
310+51.70		TO	310+72.40				74						
310+52.00		TO	311+12.70							148			
310+52.00	RT	TO	314+00.00	RT			121						
310+52.00	LT	TO	314+00.00	LT			133						
311+12.70		TO	314+00.00							1,132			
313+10.00	RT												
313+30.00	LT												
313+33.00	LT	TO	313+50.00	LT				19					
TOTAL					276	1,455	0	0	469	149	61	1	1
BAYOU CREEK													
485+60.00	LT	TO	488+16.00	LT			256						
485+60.00	LT	TO	492+50.00	LT			100						
487+00.00	RT	TO	492+50.00	RT			127						
485+60.00		TO	486+10.00							186			
486+53.00	RT									122			
486+73.00	RT	TO	488+47.00	RT			174						
488+31.00	LT												
491+93.31		TO	492+50.00							151			
492+27.60		TO	492+49.50				73						
492+92.10		TO	493+14.70				73						
492+91.00	RT	TO	493+38.00	RT			16						
492+91.00		TO	493+55.69							173			
492+91.00	LT	TO	493+59.00	LT			23						
494+15.85	RT												
495+60.00		TO	497+30.00							718			
E. 18TH STREET													
10+50.00		TO	10+80.00							72			
TOTAL					324	976	122	430	265	147	0	0	0

PAVEMENT MARKING SCHEDULE																
LOCATION											78001120 PAINT PAVEMENT MARKING - LINE 5"		78100100 RAISED REFLECTIVE PAVEMENT MARKERS	78300100 PAVEMENT REMOVAL		
											70300100 SHORT- TERM PAVEMENT MARKING	70300230 TEMPORARY PAVEMENT MARKING - LINE 5"			70300280 TEMPORARY PAVEMENT MARKING - LINE 24"	70301000 WORK ZONE PAVEMENT MARKING REMOVAL
											FOOT	FOOT	FOOT	SQ FT	FOOT	FOOT
MCDAVID																
FINAL																
306+40.00	RT	TO	314+17.00	RT			777					777		324		
306+40.00	CL	TO	314+17.00	CL			1166					1554	972	405		
306+40.00	LT	TO	314+17.00	LT			777					777		324		
307+05.00	CL	TO	314+00.00	CL										9		
STAGE I																
306+50.00	RT	TO	307+75.00	LT				125								
307+75.00	LT	TO	312+00.00	LT				425								
312+00.00	LT	TO	312+57.00	CL				57								
312+57.00	CL	TO	313+57.00	LT				100								
307+37.60	LT	TO	307+75.00	LT				37								
307+75.00	LT	TO	312+00.00	LT				425								
312+00.00	LT	TO	312+57.00	CL				57								
306+40.00	RT								12							
314+17.00	LT								12							
STAGE II																
307+00.00	LT	TO	308+00.00	CL				100								
308+00.00	CL	TO	308+50.00	RT				50								
308+50.00	RT	TO	312+00.00	RT				350								
312+00.00	RT	TO	314+07.00	LT				207								
307+85.00	RT	TO	308+50.00	RT				65								
308+50.00	RT	TO	312+00.00	RT				350								
312+00.00	RT	TO	312+71.50	RT				72								
306+40.00	RT								12							
314+17.00	LT								12							
TOTAL							2720	2420	48	3108	1554	972	9	1,053		
BAYOU																
FINAL																
485+60.00	RT	TO	497+60.00	RT			1200			1200	1200			500		
485+60.00	CL	TO	497+60.00	CL			1800			2400		2700		1,000		
485+60.00	LT	TO	497+60.00	LT			1200			1200	1200			500		
485+60.00	CL	TO	497+30.00	CL										15		
STAGE I																
489+06.00	RT	TO	491+18.00	LT				212								
491+18.00	LT	TO	495+43.50	LT				426								
495+43.50	LT	TO	496+00.00	CL				57								
496+00.00	CL	TO	497+00.00	LT				100								
490+86.00	LT	TO	491+18.00	LT				32								
491+18.00	LT	TO	495+43.50	LT				426								
495+43.50	LT	TO	495+81.80	CL				38								
488+96.00	RT								13							
497+60.00	LT								13							
STAGE II																
489+56.00	LT	TO	490+56.00	CL				100								
490+56.00	CL	TO	491+10.00	RT				54								
491+10.00	RT	TO	495+40.00	RT				430								
495+40.00	RT	TO	497+50.00	LT				210								
490+80.00	RT	TO	491+10.00	RT				30								
491+10.00	RT	TO	495+40.00	RT				430								
495+40.00	RT	TO	495+70.00	RT				30								
488+96.00	RT								13							
497+60.00	LT								13							
TOTAL							4200	2574	52	4800	2400	2700	15	2,000		

ROW MARKER SCHEDULE				
LOCATION				66600105
				FURNISHING AND ERECTING ROW EACH
MCDAVID BRANCH				
307+88.42	54.11	RT		1
310+00.00	70.00	RT		1
311+00.00	70.00	RT		1
313+03.05	53.21	RT		1
TOTAL				4
BAYOU CREEK				
489+00.00	65.00	RT		1
490+00.00	70.00	RT		1
491+95.83	70.00	RT		1
492+25.00	66.21	RT		1
TOTAL				4

TREE REMOVAL SCHEDULE			
LOCATION	OFFSET	20100500	TREE REMOVAL, ACRES
MCDAVID BRANCH			
STA. 307+05.00 TO STA. 310+10.00	RT		0.12
STA. 310+50.00 TO STA. 312+48.00	RT		0.18
TOTALS			0.3
BAYOU CREEK			
STA. 490+25.00 TO STA. 492+75.00	LT		0.08
STA. 491+85.00 TO STA. 492+40.00	RT		0.02
STA. 492+90.00 TO STA. 493+45.00	RT		0.02
TOTALS			0.1



USER NAME = gjameson	DESIGNED -	REVISED
FILE NAME = D672008-SHT-SCHEDULE.dwg	CHECKED -	REVISED
PLOT SCALE = 10.0000' / IN.	DRAWN -	REVISED
PLOT DATE = 10/15/2015	CHECKED -	REVISED

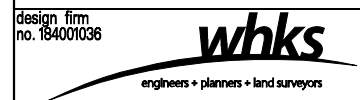
STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

SCALE: NTS		SHEET NO. 3 OF 6 SHEETS		STA. TO STA.	

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
777	10B-2, 405B-1	MONTGOMERY	121	15
CONTRACT NO. 72D08				
ILLINOIS FED. AID PROJECT				

SEEDING SCHEDULE										
LOCATION	25000200	25003200	25000400	25000500	25000600	25100115	25000700	25100630	28000250	
	SEEDING, CLASS 2	INTERSEEDING, CLASS 2	NITROGEN FERTILIZER NUTRIENT	PHOSPHORUS FERTILIZER NUTRIENT	POTASSIUM FERTILIZER NUTRIENT	MULCH, METHOD 2	AGRICULTURAL GROUND LIMESTONE	EROSION CONTROL BLANKET	TEMPORARY EROSION CONTROL SEEDING	
	ACRE	ACRE	POUND	POUND	POUND	ACRE	TON	SQ YD	POUND	
MCDAVID BRANCH										
307+05.00 RT TO 310+15.00 RT	0.15	0.10						713		
307+05.00 LT TO 310+45.00 LT	0.13	0.11						521		
310+40.00 RT TO 313+04.00 RT	0.15	0.12						701		
310+85.00 LT TO 313+06.00 LT	0.10	0.08						477		
307+05.00 LT TO 308+35.00 LT						0.1				
307+05.00 TO 314+00.00			91	91	91		2			
307+05.00 RT TO 314+00.00 RT									88	
307+05.00 LT TO 314+00.00 LT									68	
TOTAL	0.6	0.4	91	91	91	0.1	2	2,412	156	
BAYOU CREEK										
485+60.00 RT TO 492+36.00 RT	0.62	0.10						1,922		
485+60.00 LT TO 492+91.00 LT	0.53	0.19						1,705		
492+82.00 RT TO 497+30.00 RT	0.31	0.10						942		
493+11.00 LT TO 497+30.00 LT	0.07	0.49						189		
485+60.00 TO 490+50.00						0.4				
491+15.85 TO 497+30.00						0.2				
485+60.00 TO 497+30.00			215	215	215		5			
485+60.00 RT TO 497+30.00 RT									278	
485+60.00 LT TO 497+30.00 LT									181	
TOTAL	1.5	0.9	215	215	215	0.6	5	4,758	459	

DRAINAGE SCHEDULE														
LOCATION	20800150	50105220	54215547	54215550	54215559	54215565	54215571	60100945	542D0220	542D0229	542D0235	542D0241	61000335	X5420630
	TRENCH BACKFILL	PIPE CULVERT REMOVAL	METAL END SECTIONS 12"	METAL END SECTIONS 15"	METAL END SECTIONS 24"	METAL END SECTIONS 30"	METAL END SECTIONS 36"	PIPE DRAINS 12"	PIPE CULVERTS, CLASS D, TYPE 1 15"	PIPE CULVERTS, CLASS D, TYPE 1 24"	PIPE CULVERTS, CLASS D, TYPE 1 30"	PIPE CULVERTS, CLASS D, TYPE 1 36"	TYPE G INLET BOX, STANDARD 610001	PIPE CULVERTS TO BE CLEANED
	CU YD	FOOT	EACH	EACH	EACH	EACH	EACH	FOOT	FOOT	FOOT	FOOT	FOOT	EACH	FOOT
MCDAVID BRANCH														
309+89.00 RT		14												
310+72.00 LT		13												
310+74.00 LT		20												
311+05.00 RT			1					10					1	
311+05.00 LT			1					10					1	
312+91.00 RT					1									
313+10.00 RT														29
313+16.00 LT		33								48				
313+39.00 LT					1									
TOTAL		80	2	0	2	0	0	20	0	48	0	0	2	29
BAYOU CREEK														
486+28.00 RT						1								
486+45.00 RT		45												
486+53.00 LT	22										66			
486+92.00 RT						1								
488+05.00 LT							1							
488+31.00 LT		34										50		
488+56.00 LT							1							
493+54.00 LT			1					10					1	
493+71.00 RT				1										
494+14.00 RT		52							77					
494+48.00 RT				1										
TOTAL	22	131	1	2	0	2	2	10	77	0	66	50	1	0



USER NAME = gjameson	DESIGNED -	REVISED
FILE NAME = D672D08-SHT-SCHEDULE	CHECKED -	REVISED
PLOT SCALE = 10.0000' / IN.	DRAWN -	REVISED
PLOT DATE = 10/15/2015	CHECKED -	REVISED

**STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION**

SCHEDULE OF QUANTITIES		
SCALE: NTS	SHEET NO. 4 OF 6 SHEETS	STA. TO STA.

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
777	10B-2, 405B-1	MONTGOMERY	121	16
			CONTRACT NO. 72D08	
ILLINOIS FED. AID PROJECT				

GUARDRAIL SCHEDULE																				
LOCATION	63000001 STEEL PLATE BEAM GUARDRAIL, TYPE A, 6- FOOT POSTS		70500100 TEMPORARY STEEL PLATE BEAM GUARDRAIL, TYPE A		63200310 GUARDRAIL REMOVAL		63100167 TRAFFIC BARRIER TERMINAL, TYPE 1 (SPECIAL) TANGENT		X7050167 TEMPORARY TRAFFIC BARRIER TERMINAL, TYPE 1, SPECIAL (TANGENT)		63100085 TRAFFIC BARRIER TERMINAL, TYPE 6		70500665 TEMPORARY TRAFFIC BARRIER TERMINAL, TYPE 6		78200410 GUARDRAIL MARKERS, TYPE A		78200530 BARRIER WALL MARKERS, TYPE C		78201000 TERMINAL MARKER - DIRECT APPLIED	
	FOOT	FOOT	FOOT	EACH	EACH	EACH	EACH	EACH	EACH	EACH	EACH	EACH	EACH	EACH	EACH	EACH	EACH	EACH	EACH	EACH
MCDAVID BRANCH																				
307+60.55	RT	TO	308+10.55	RT			1	1								6			1	
307+60.55	RT	TO	312+25.85	RT																
307+69.70	RT	TO	309+89.70	RT		220.0														
308+10.55	RT	TO	309+35.55	RT	125.0	125.0														
309+35.55	RT	TO	309+81.20	RT								1	1							
309+77.70	RT	TO	310+83.70	RT													2			
310+72.00	RT	TO	312+80.00	RT		208.0														
310+80.20	RT	TO	311+25.85	RT								1	1							
311+25.85	RT	TO	311+75.85	RT	50.0	50.0														
311+75.85	RT	TO	312+25.85	RT				1	1											1
307+19.00	LT	TO	309+89.70	LT		271.0														
308+35.55	LT	TO	312+88.35	LT												5				
308+35.55	LT	TO	308+85.55	LT				1	1											1
308+85.55	LT	TO	309+35.55	LT	50.0	50.0														
309+35.55	LT	TO	309+81.20	LT								1	1							
309+77.70	LT	TO	310+83.70	LT													2			
310+72.00	LT	TO	313+93.00	LT		321.0														
310+80.20	LT	TO	311+25.85	LT								1	1							
311+25.85	LT	TO	312+38.35	LT	112.5	112.5														
312+38.35	LT	TO	312+88.35	LT				1	1											1
TOTAL					337.5	337.5	1,020.0	4	4	4	4	11	4	4	4	4	4	4	4	4

RIPRAP SCHEDULE			
LOCATION	OFFSET	28100107	28200200
		STONE RIPRAP, CLASS A4	FILTER FABRIC
		SQ YD	SQ YD
MCDAVID BRANCH			
STA. 307+50 TO STA. 310+00	RT	408	408
STA. 310+40 TO STA. 312+95	RT	416	416
STA. 307+85 TO STA. 310+00	LT	350	350
STA. 311+00 TO STA. 312+90	LT	310	310
STA. 311+05	RT	46	46
STA. 311+05	LT	39	39
TOTAL		1,568	1,568
BAYOU CREEK			
STA. 485+60 TO STA. 488+10	LT	408	408
STA. 486+82 TO STA. 492+30	RT	893	893
STA. 488+44 TO STA. 492+30	LT	629	629
STA. 493+00 TO STA. 493+75	RT	122	122
STA. 493+54	LT	40	40
STA. 494+41 TO STA. 496+00	RT	259	259
TOTAL		2,352	2,352

SEE BRIDGE PLANS FOR DETAIL OF STONE RIPRAP, CLASS A5.

EARTHWORK SCHEDULE					
LOCATION	20200100	20300100	EARTH	EMBANKMENT	20400800
	EARTH EXCAVATION	CHANNEL EXCAVATION	EXCAVATION ADJUSTED FOR SHRINKAGE	(FILL)	EARTHWORK BALANCE WASTE(+) AND SHORTAGE (-) FURNISHED EXCAVATION
		(CU YD)	(CU YD)	(CU YD)	(CU YD)
MCDAVID BRANCH					
PRESTAGE					
STA. 307+50.00 TO STA. 309+93.70		32		24	24
STA. 310+67.70 TO STA. 314+00.00		16		12	12
STAGE I					
STA. 307+50.00 TO STA. 309+93.70		207		156	125
STA. 310+67.70 TO STA. 314+00.00		145		109	-51
STAGE II					
STA. 307+50.00 TO STA. 309+93.70		103		78	-13
STA. 310+67.70 TO STA. 314+00.00		157		118	-11
STAGE III					
STA. 307+50.00 TO STA. 309+93.70		0		0	-10
STA. 310+67.70 TO STA. 314+00.00		0		0	0
CHANNEL EXCAVATION					
STA. 309+93.70 TO STA. 310+67.70			379		
TOTAL		660	379	497	76
BAYOU CREEK					
PRESTAGE					
STA. 485+60.00 TO STA. 492+28.27		27		21	17
STA. 493+11.73 TO STA. 497+30.00		0		0	0
STAGE I					
STA. 485+60.00 TO STA. 492+28.27		323		243	-263
STA. 493+11.73 TO STA. 497+30.00		86		65	-227
STAGE II					
STA. 485+60.00 TO STA. 492+28.27		303		228	-265
STA. 493+11.73 TO STA. 497+30.00		99		75	1
STAGE III					
STA. 485+60.00 TO STA. 492+28.27		11		9	-408
STA. 493+11.73 TO STA. 497+30.00		23		18	-10
CHANNEL EXCAVATION					
STA. 492+28.27 TO STA. 493+11.73			686		
TOTAL		872	686	659	-1,155

SHRINKAGE FACTOR FOR EARTH EXCAVATION = 25%

CHANNEL EXCAVATION ASSUMED AS UNSUITABLE MATERIAL FOR EARTHWORK SCHEDULE AND QUANTITIES

design firm
no. 184001036



USER NAME = gjameson
FILE NAME = D672D08-SHT-SCHEDULE.dwg
PLOT SCALE = 10.0000' / IN.
PLOT DATE = 10/15/2015

DESIGNED -
CHECKED -
DRAWN -
CHECKED -

REVISED
REVISED
REVISED
REVISED

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

SCHEDULE OF QUANTITIES

SCALE: NTS SHEET NO. 5 OF 6 SHEETS STA. TO STA.

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
777	10B-2, 405B-1	MONTGOMERY	121	17
CONTRACT NO. 72D08			ILLINOIS FED. AID PROJECT	

GUARDRAIL SCHEDULE															
LOCATION	63000001	70500100	X6330725	63200310	63100167	X7050167	63100045	70500665	78200410	78200530	78201000				
	STEEL PLATE BEAM GUARDRAIL, TYPE A, 6-FOOT POSTS	TEMPORARY STEEL PLATE BEAM GUARDRAIL,	STEEL PLATE BEAM GUARDRAIL (SHORT RADIUS)	GUARDRAIL REMOVAL	TRAFFIC BARRIER TERMINAL, TYPE 1 (SPECIAL) TANGENT	TEMPORARY TRAFFIC BARRIER TERMINAL, TYPE 1, SPECIAL (TANGENT)	TRAFFIC BARRIER TERMINAL, TYPE 6	TEMPORARY TRAFFIC BARRIER TERMINAL, TYPE 6	GUARDRAIL MARKERS, TYPE A	BARRIER WALL MARKERS, TYPE C	TERMINAL MARKER - DIRECT APPLIED				
	FOOT	FOOT	FOOT	FOOT	EACH	EACH	EACH	EACH	EACH	EACH	EACH				
BAYOU CREEK															
489+16.87	RT	TO	489+66.87	RT		1	1				1				
489+16.87	RT		494+04.21	RT					6						
489+41.00	RT	TO	492+27.70	RT											
489+66.87	RT	TO	491+66.87	RT	200.0	200.0									
491+66.87	RT	TO	492+12.52	RT				1	1						
492+10.00	RT	TO	493+22.00	RT						2					
493+14.70	RT	TO	493+88.00	RT			74.0								
493+18.91	RT	TO	493+64.56	RT				1	1						
493+64.56	RT	TO	494+04.21	RT		50.0									
494+14.21	RT						41.0								
490+48.70	LT	TO	492+27.70	LT			179.0								
490+50.44	LT	TO	491+00.44	LT				1	1		1				
490+50.44	LT		494+04.50	LT						6					
491+00.44	LT	TO	491+75.44	LT	75.0	75.0									
491+75.44	LT	TO	492+21.09	LT				1	1						
492+18.00	LT	TO	493+30.50	LT						2					
493+14.70	LT	TO	493+78.00	LT			64.0								
493+27.48	LT	TO	493+73.09	LT				1	1						
493+73.09	LT	TO	493+99.68	LT		37.5									
493+99.68	LT	TO	494+02.92	LT				1			1				
494+01.59	LT	TO	494+01.85	LT											
494+15.85	LT						56.0								
494+40.00	LT	TO	495+82.00	LT			142.0								
TOTAL					275.0	275.0	87.5	843.0	3	2	4	4	12	4	3




USER NAME = g.jameson	DESIGNED -	REVISED
FILE NAME = D672D08-SHT-SCHEDULE.dwg	CHECKED -	REVISED
PLOT SCALE = 10.0000' / IN.	DRAWN -	REVISED
PLOT DATE = 10/15/2015	CHECKED -	REVISED

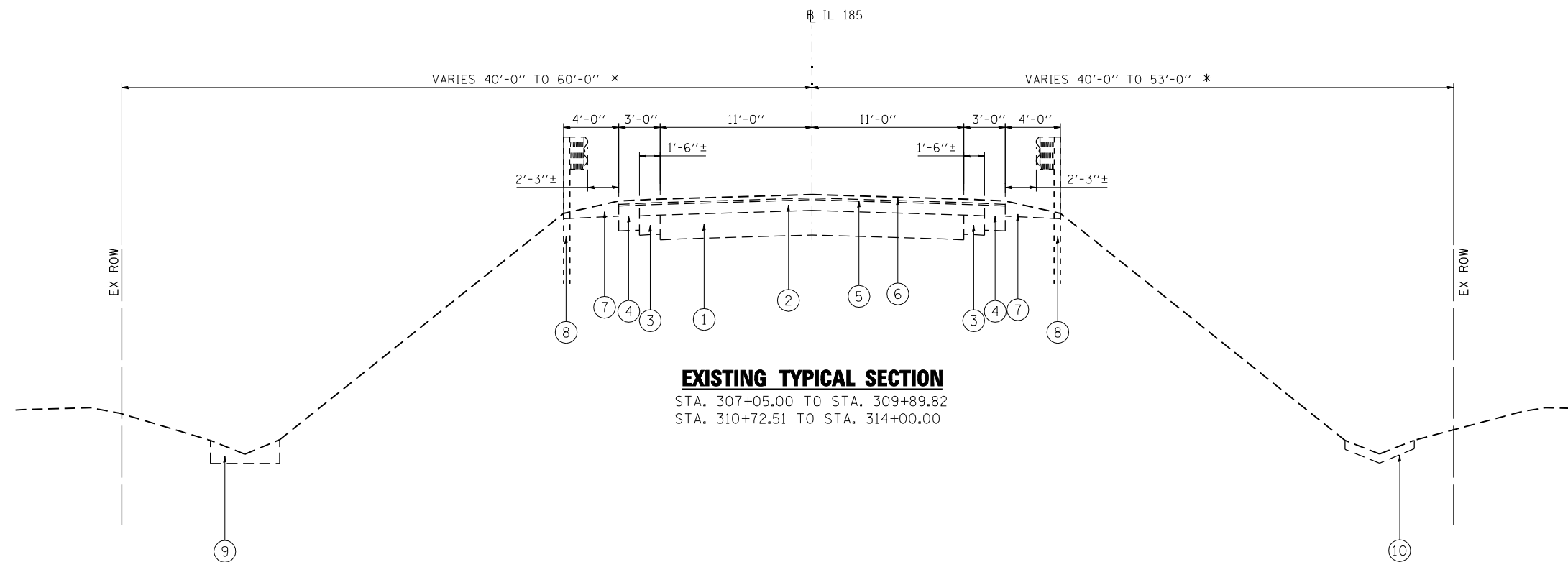
**STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION**

SCHEDULE OF QUANTITIES	
SCALE: NTS	SHEET NO. 6 OF 6 SHEETS STA. TO STA.

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
777	10B-2, 405B-1	MONTGOMERY	121	18
ILLINOIS FED. AID PROJECT			CONTRACT NO. 72D08	

LEGEND

- ① EXISTING 7" AGGREGATE BASE COURSE
- ② EXISTING 4" HMA BINDER COURSE
- ③ EXISTING 6" HMA BASE COURSE WIDENING
- ④ EXISTING 8" HMA SHOULDER
- ⑤ EXISTING LEVELING BINDER 3/4"
- ⑥ EXISTING HMA SURFACE COURSE
- ⑦ EXISTING AGGREGATE SHOULDER
- ⑧ EXISTING GUARDRAIL
- ⑨ EXISTING TYPE A GUTTER
- ⑩ EXISTING REVETMENT MAT
- ⑪ HMA SURFACE COURSE, MIX "C", N50
- ⑫ HMA BINDER COURSE, IL-19.0, N50 OR LEVELING BINDER (MACHINE METHOD), N50
- ⑬ HMA SURFACE REMOVAL, VARIABLE DEPTH
- ⑭ HMA SHOULDERS
- ⑮ AGGREGATE SHOULDERS, TYPE B
- ⑯ STONE RIPRAP, CLASS A4
- ⑰ GUARDRAIL
- ⑱ BASE COURSE WIDENING 10"
-  TO BE REMOVED

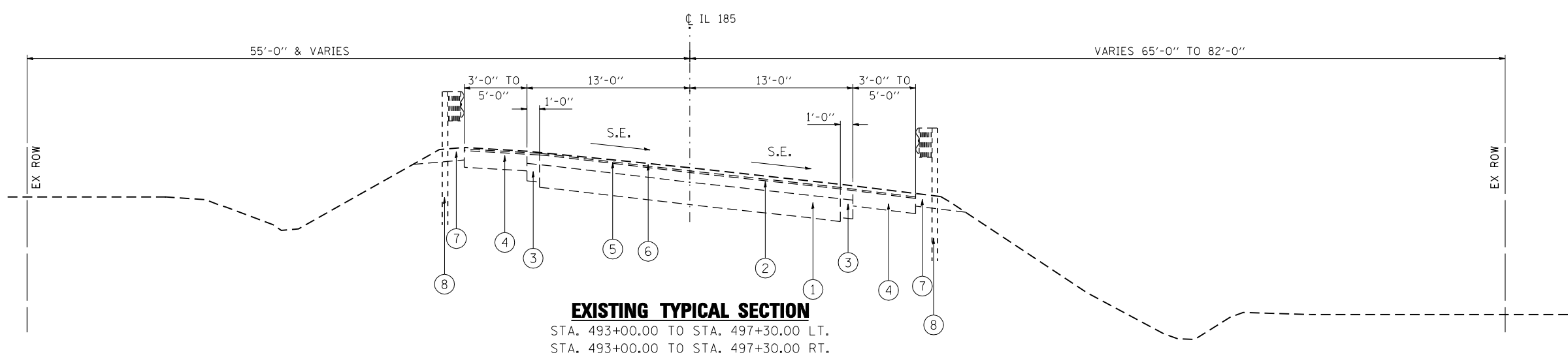
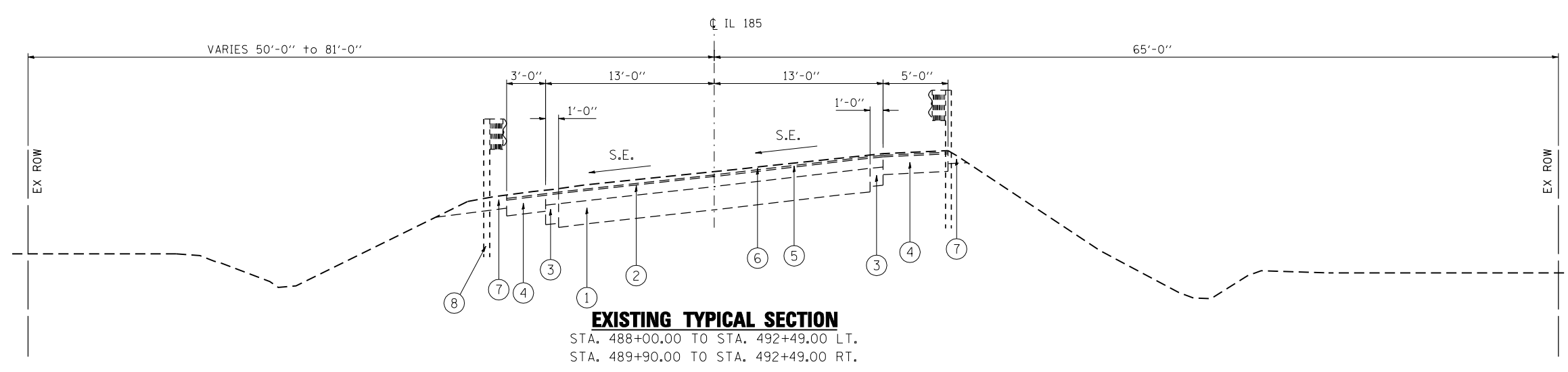
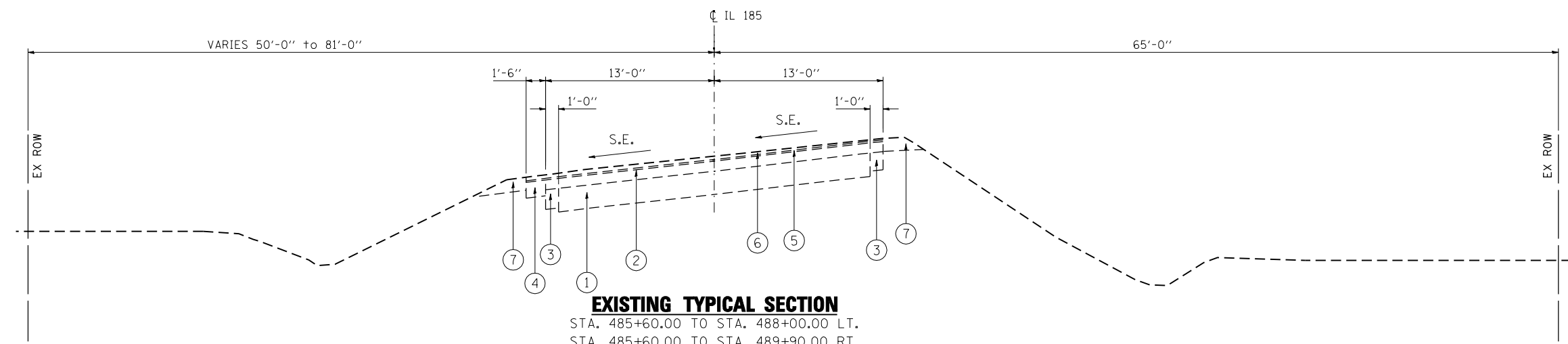


EXISTING TYPICAL SECTION
 STA. 307+05.00 TO STA. 309+89.82
 STA. 310+72.51 TO STA. 314+00.00

* EXISTING AND PROPOSED ROW IS MEASURED TO BASELINE OF IL 185.

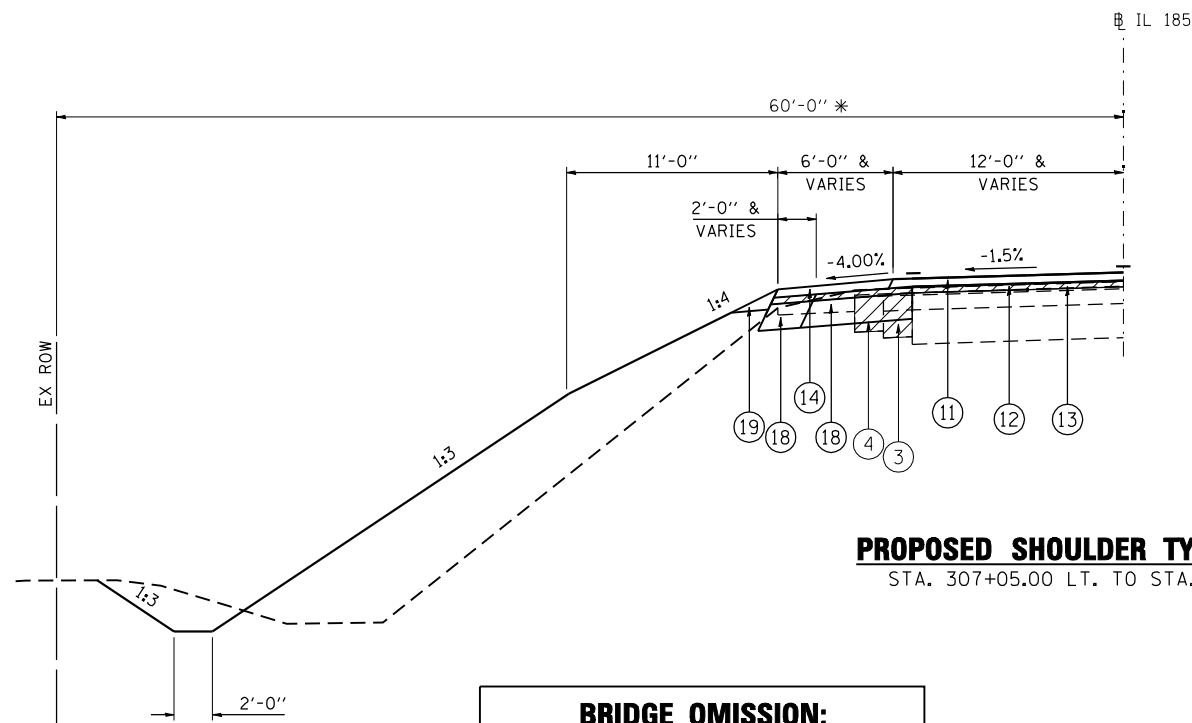
LEGEND

- ① EXISTING 7" AGGREGATE BASE COURSE
- ② EXISTING 4" HMA BINDER COURSE
- ③ EXISTING 6" HMA BASE COURSE WIDENING
- ④ EXISTING 8" HMA SHOULDER
- ⑤ EXISTING LEVELING BINDER 3/4"
- ⑥ EXISTING HMA SURFACE COURSE
- ⑦ EXISTING AGGREGATE SHOULDER
- ⑧ EXISTING GUARDRAIL
- ⑨ EXISTING TYPE A GUTTER
- ⑩ EXISTING REVETMENT MAT
- ⑪ HMA SURFACE COURSE, MIX "C", N50
- ⑫ HMA BINDER COURSE, IL-19.0, N50 OR LEVELING BINDER (MACHINE METHOD), N50
- ⑬ HMA SURFACE REMOVAL, VARIABLE DEPTH
- ⑭ HMA SHOULDERS
- ⑮ AGGREGATE SHOULDERS, TYPE B
- ⑯ STONE RIPRAP, CLASS A4
- ⑰ GUARDRAIL
- ⑱ BASE COURSE WIDENING 10"
- TO BE REMOVED



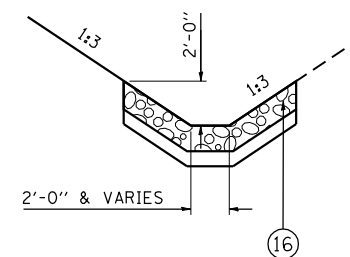
LEGEND

- ① EXISTING 7" AGGREGATE BASE COURSE
- ② EXISTING 4" HMA BINDER COURSE
- ③ EXISTING 6" HMA BASE COURSE WIDENING
- ④ EXISTING 8" HMA SHOULDER
- ⑤ EXISTING LEVELING BINDER 3/4"
- ⑥ EXISTING HMA SURFACE COURSE
- ⑦ EXISTING AGGREGATE SHOULDER
- ⑧ EXISTING GUARDRAIL
- ⑨ EXISTING TYPE A GUTTER
- ⑩ EXISTING REVETMENT MAT
- ⑪ HMA SURFACE COURSE, MIX "C", N50
- ⑫ HMA BINDER COURSE, IL-19.0, N50 OR LEVELING BINDER (MACHINE METHOD), N50
- ⑬ HMA SURFACE REMOVAL, VARIABLE DEPTH
- ⑭ HMA SHOULDERS
- ⑮ AGGREGATE SHOULDERS, TYPE B
- ⑯ STONE RIPRAP, CLASS A4
- ⑰ GUARDRAIL
- ⑱ BASE COURSE WIDENING 10"
- ⑲ AGGREGATE WEDGE SHOULDERS, TYPE B
- TO BE REMOVED

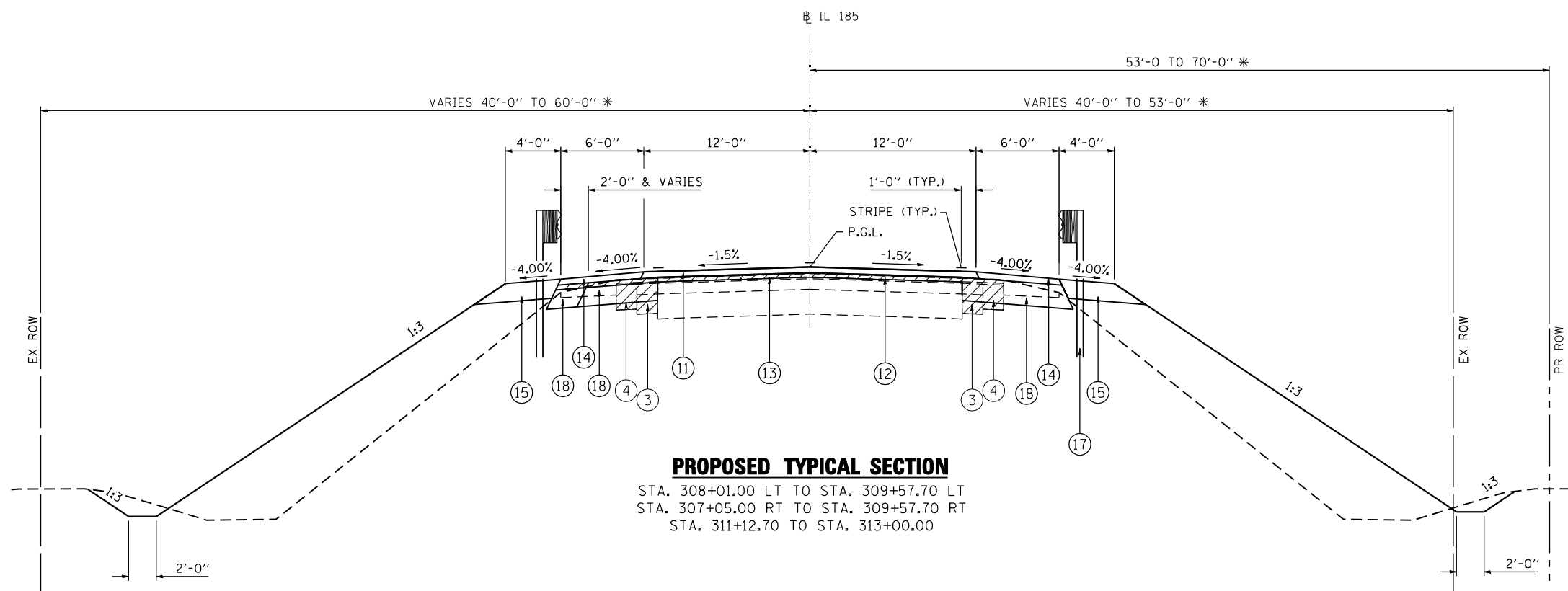


PROPOSED SHOULDER TYPICAL SECTION
STA. 307+05.00 LT. TO STA. 308+01.00 LT.

BRIDGE OMISSION:
STA. 309+93.70 TO STA. 310+67.70



TYPICAL STONE RIPRAP DITCH



PROPOSED TYPICAL SECTION

STA. 308+01.00 LT TO STA. 309+57.70 LT
STA. 307+05.00 RT TO STA. 309+57.70 RT
STA. 311+12.70 TO STA. 313+00.00

* EXISTING AND PROPOSED ROW IS MEASURED TO BASELINE OF IL 185.

design firm
no. 184001036



USER NAME = gjameson	DESIGNED -	REVISED
FILE NAME = D672D08-SN0680026-SHT	CHECKED -	REVISED
PLOT SCALE = 10.0000' / IN.	DRAWN -	REVISED
PLOT DATE = 10/15/2015	CHECKED -	REVISED

**STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION**

**PROPOSED TYPICAL SECTIONS
IL 185 OVER MCDAVID BRANCH**

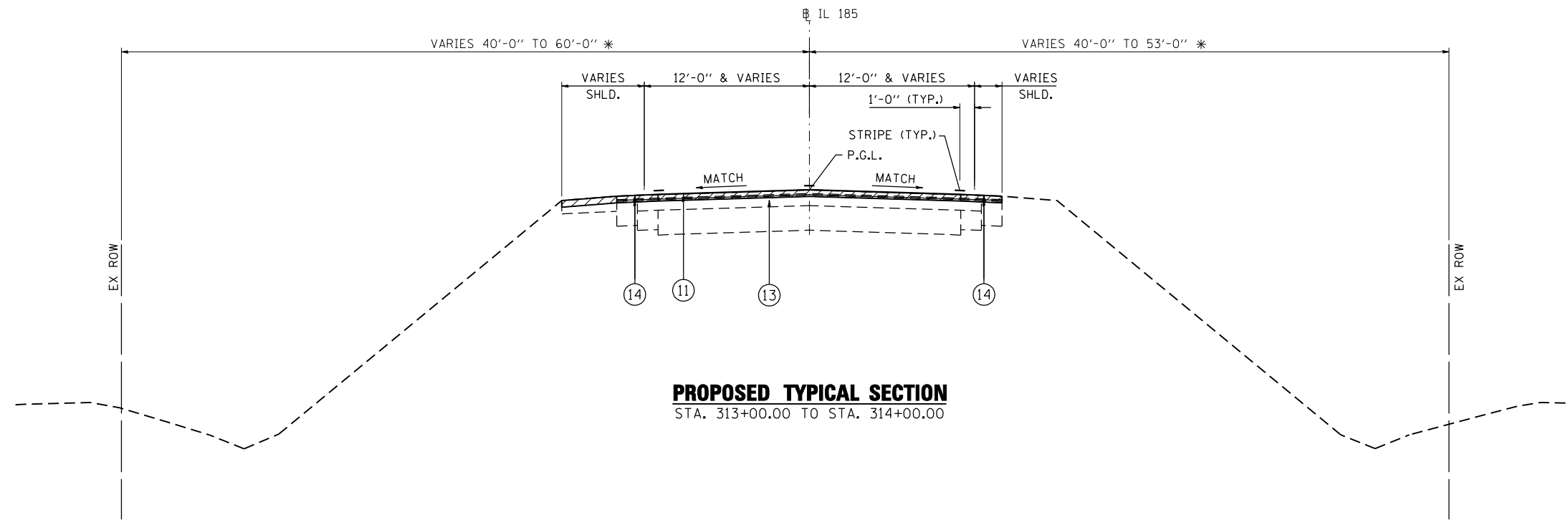
SCALE: 1" = 10' SHEET NO. 1 OF 2 SHEETS STA. TO STA.

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
777	10B-2, 405B-1	MONTGOMERY	121	21
CONTRACT NO. 72D08				

ILLINOIS FED. AID PROJECT

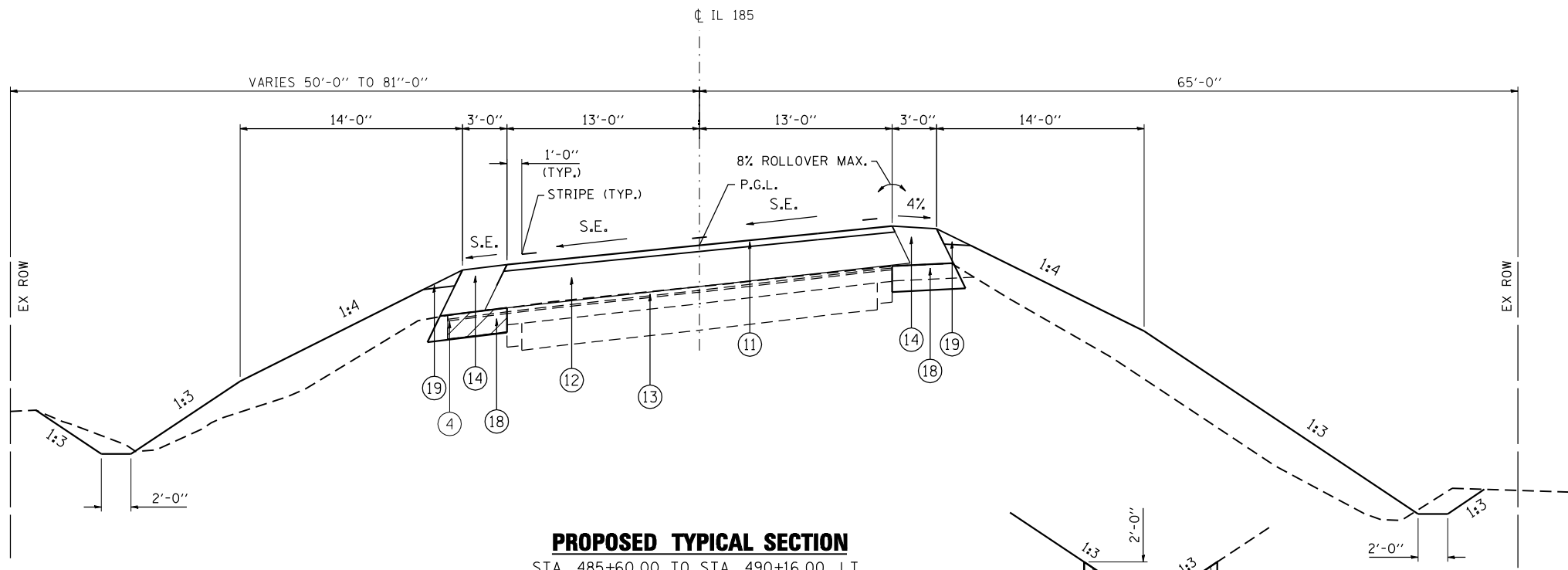
LEGEND

- ① EXISTING 7" AGGREGATE BASE COURSE
- ② EXISTING 4" HMA BINDER COURSE
- ③ EXISTING 6" HMA BASE COURSE WIDENING
- ④ EXISTING 8" HMA SHOULDER
- ⑤ EXISTING LEVELING BINDER ¾"
- ⑥ EXISTING HMA SURFACE COURSE
- ⑦ EXISTING AGGREGATE SHOULDER
- ⑧ EXISTING GUARDRAIL
- ⑨ EXISTING TYPE A GUTTER
- ⑩ EXISTING REVETMENT MAT
- ⑪ HMA SURFACE COURSE, MIX "C", N50
- ⑫ HMA BINDER COURSE, IL-19.0, N50 OR LEVELING BINDER (MACHINE METHOD), N50
- ⑬ HMA SURFACE REMOVAL, VARIABLE DEPTH
- ⑭ HMA SHOULDERS
- ⑮ AGGREGATE SHOULDERS, TYPE B
- ⑯ STONE RIPRAP, CLASS A4
- ⑰ GUARDRAIL
- ⑱ BASE COURSE WIDENING 10"
- ⑲ AGGREGATE WEDGE SHOULDERS, TYPE B
- ▨ TO BE REMOVED



PROPOSED TYPICAL SECTION
STA. 313+00.00 TO STA. 314+00.00

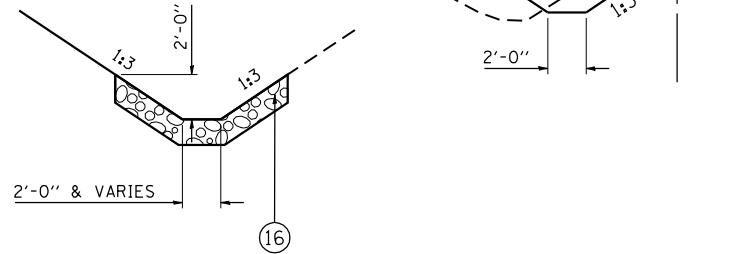
* EXISTING AND PROPOSED ROW IS MEASURED TO BASELINE OF IL 185.



PROPOSED TYPICAL SECTION

STA. 485+60.00 TO STA. 490+16.00, LT.
 STA. 485+60.00 TO STA. 488+83.00, RT.

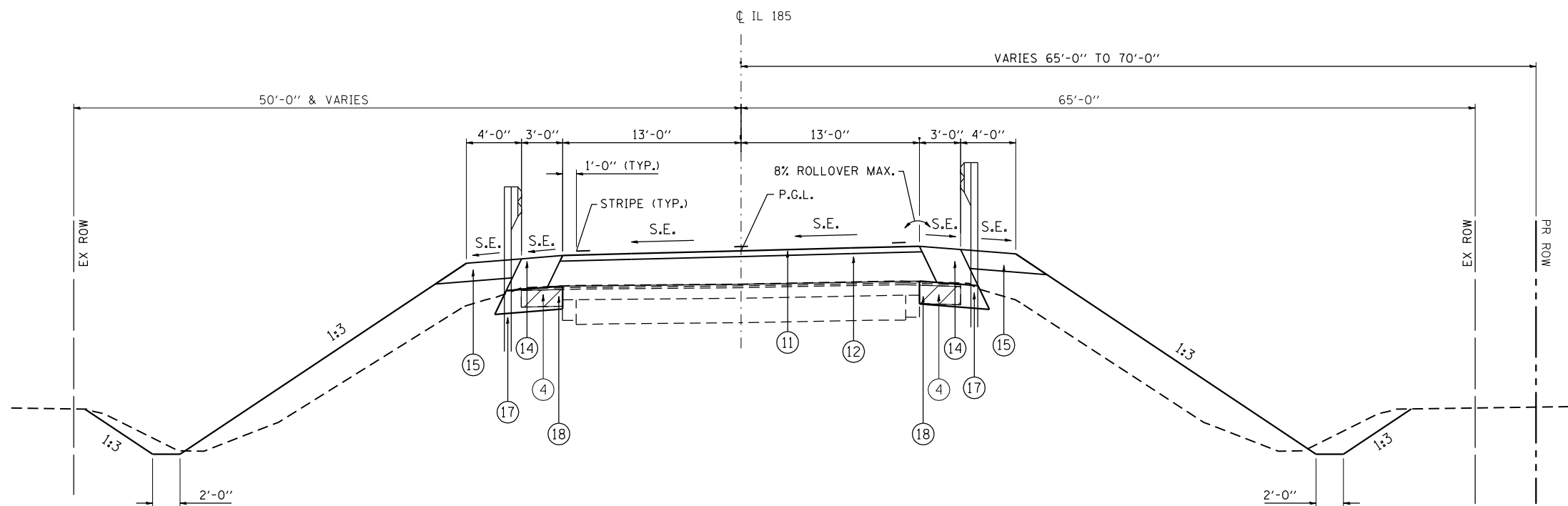
BRIDGE OMISSION:
 STA. 492+29.31 TO STA. 493+10.69



TYPICAL STONE RIPRAP DITCH

LEGEND

- ① EXISTING 7" AGGREGATE BASE COURSE
- ② EXISTING 4" HMA BINDER COURSE
- ③ EXISTING 6" HMA BASE COURSE WIDENING
- ④ EXISTING 8" HMA SHOULDER
- ⑤ EXISTING LEVELING BINDER 3/4"
- ⑥ EXISTING HMA SURFACE COURSE
- ⑦ EXISTING AGGREGATE SHOULDER
- ⑧ EXISTING GUARDRAIL
- ⑨ EXISTING TYPE A GUTTER
- ⑩ EXISTING REVETMENT MAT
- ⑪ HMA SURFACE COURSE, MIX "C", N50
- ⑫ HMA BINDER COURSE, IL-19.0, N50 OR LEVELING BINDER (MACHINE METHOD), N50
- ⑬ HMA SURFACE REMOVAL, VARIABLE DEPTH
- ⑭ HMA SHOULDERS
- ⑮ AGGREGATE SHOULDERS, TYPE B
- ⑯ STONE RIPRAP, CLASS A4
- ⑰ GUARDRAIL
- ⑱ BASE COURSE WIDENING 10"
- ⑲ AGGREGATE WEDGE SHOULDERS, TYPE B
- ▨ TO BE REMOVED



PROPOSED TYPICAL SECTION

STA. 490+40.00 TO STA. 491+93.31, LT.
 STA. 489+07.00 TO STA. 491+93.31, RT.



USER NAME = gjameson	DESIGNED -	REVISED
FILE NAME = D672D08-SN0680027-SHT-CHECKED	CHECKED -	REVISED
PLOT SCALE = 10.0000' / IN.	DRAWN -	REVISED
PLOT DATE = 10/15/2015	CHECKED -	REVISED


**STATE OF ILLINOIS
 DEPARTMENT OF TRANSPORTATION**

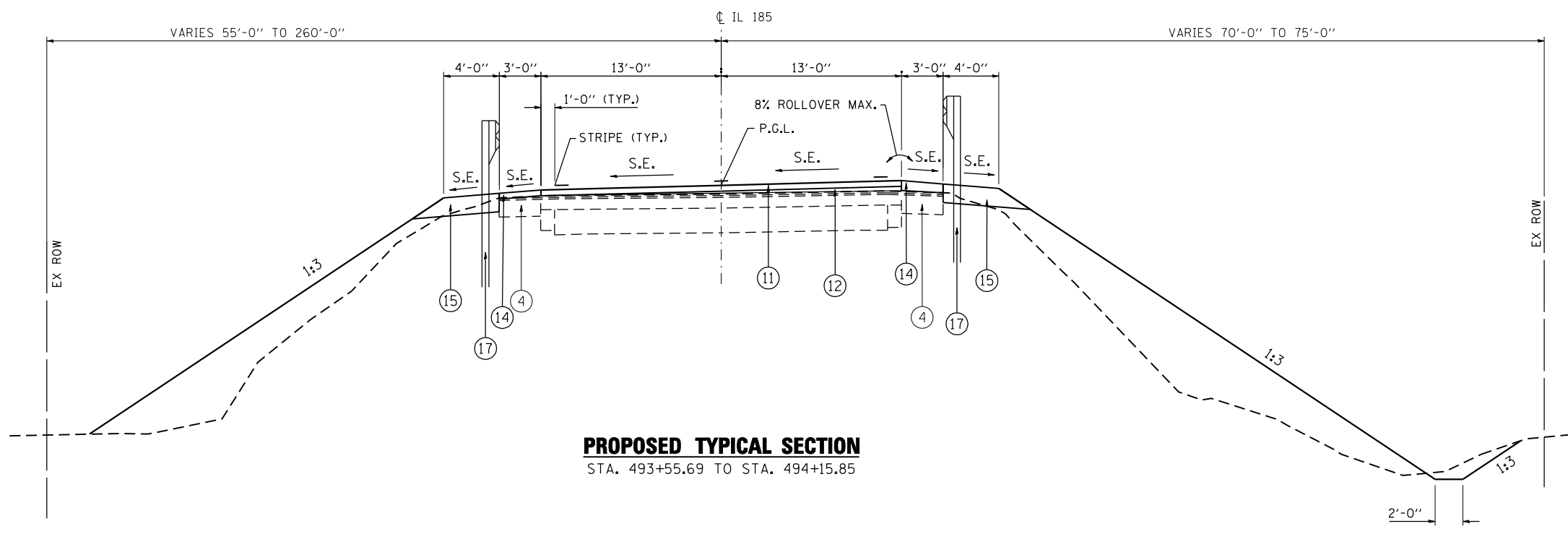
**PROPOSED TYPICAL SECTIONS
 IL 185 OVER BAYOU CREEK**

SCALE: 1" = 10' SHEET NO. 1 OF 2 SHEETS STA. TO STA.

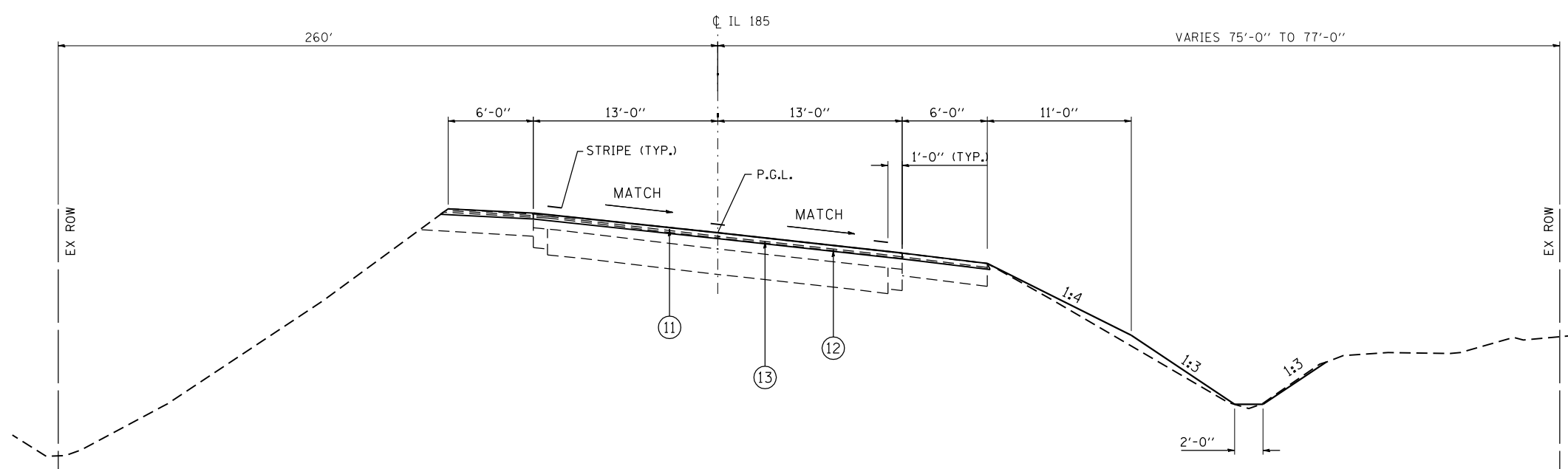
F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
777	10B-2, 405B-1	MONTGOMERY	121	23
CONTRACT NO. 72D08				
ILLINOIS FED. AID PROJECT				

LEGEND

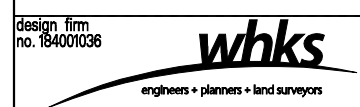
- ① EXISTING 7" AGGREGATE BASE COURSE
- ② EXISTING 4" HMA BINDER COURSE
- ③ EXISTING 6" HMA BASE COURSE WIDENING
- ④ EXISTING 8" HMA SHOULDER
- ⑤ EXISTING LEVELING BINDER 3/4"
- ⑥ EXISTING HMA SURFACE COURSE
- ⑦ EXISTING AGGREGATE SHOULDER
- ⑧ EXISTING GUARDRAIL
- ⑨ EXISTING TYPE A GUTTER
- ⑩ EXISTING REVETMENT MAT
- ⑪ HMA SURFACE COURSE, MIX "C", N50
- ⑫ HMA BINDER COURSE, IL-19.0, N50 OR LEVELING BINDER (MACHINE METHOD), N50
- ⑬ HMA SURFACE REMOVAL, VARIABLE DEPTH
- ⑭ HMA SHOULDERS
- ⑮ AGGREGATE SHOULDERS, TYPE B
- ⑯ STONE RIPRAP, CLASS A4
- ⑰ GUARDRAIL
- ⑱ BASE COURSE WIDENING 10"
- ⑲ AGGREGATE WEDGE SHOULDERS, TYPE B
-  TO BE REMOVED



PROPOSED TYPICAL SECTION
STA. 493+55.69 TO STA. 494+15.85



PROPOSED TYPICAL SECTION
STA. 494+15.85 TO STA. 497+30.00



USER NAME = gjameson	DESIGNED -	REVISED
FILE NAME = D672D08-SN0680027-SHT	CHECKED -	REVISED
PLOT SCALE = 10.0000' / IN.	DRAWN -	REVISED
PLOT DATE = 10/15/2015	CHECKED -	REVISED

**STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION**

**PROPOSED TYPICAL SECTIONS
IL 185 OVER BAYOU CREEK**

SCALE: 1" = 10' SHEET NO. 2 OF 2 SHEETS STA. TO STA.

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
777	10B-2, 405B-1	MONTGOMERY	121	24
			CONTRACT NO. 72D08	
ILLINOIS FED. AID PROJECT				

BENCHMARK BM-71

STA. 303+10, 57' LT.
COTTON PICKER SPINDLE IN
SOUTH SIDE OF POWER POLE
ELEV. 630.43 (NAVD 88 DATUM)

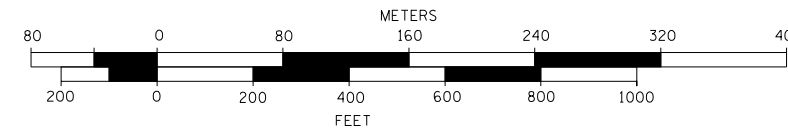
BENCHMARK BM-72

STA. 313+17, 60' LT.
COTTON PICKER SPINDLE IN
SOUTH SIDE OF POWER POLE
ELEV. 601.39 (NAVD 88 DATUM)

BENCHMARK TJM100

STA. 310+52.11, 16.5' LT.
CHISELED "□" IN CONCRETE
APPROACH SLAB AT N.E.
CORNER OF BRIDGE SN 068-0026
ELEV. 604.18 (NAVD 88 DATUM)

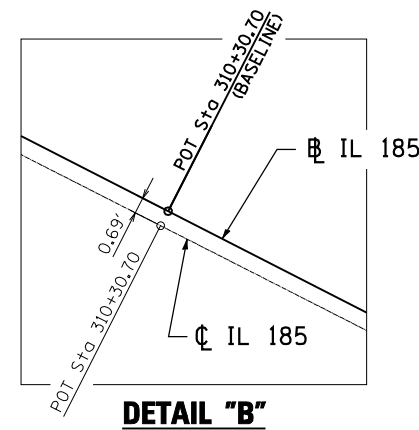
GRAPHIC SCALE



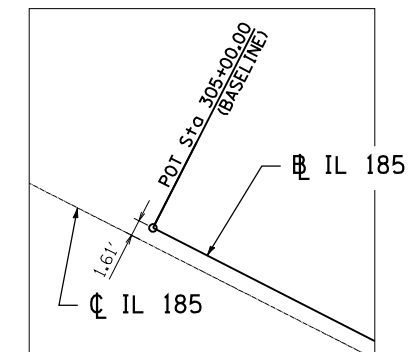
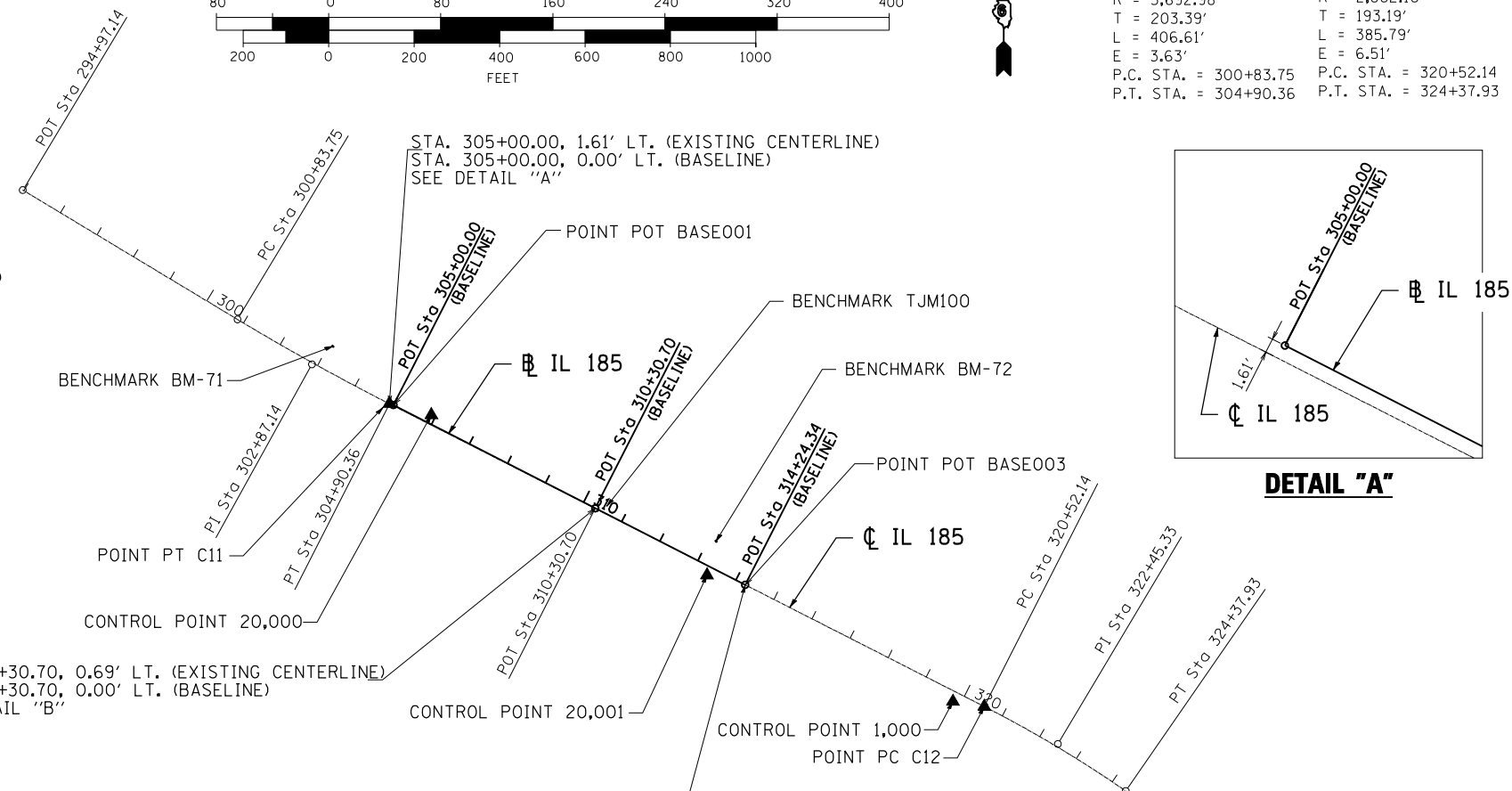
EXIST. CURVE 11 PI STA. = 302+87.14 Δ = 4° 05' 32" (LT) D = 1° 00' 23" R = 5,692.98' T = 203.39' L = 406.61' E = 3.63' P.C. STA. = 300+83.75 P.T. STA. = 304+90.36	EXIST. CURVE 12 PI STA. = 322+45.33 Δ = 7° 43' 23" (RT) D = 2° 00' 07" R = 2,862.16' T = 193.19' L = 385.79' E = 6.51' P.C. STA. = 320+52.14 P.T. STA. = 324+37.93
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ALIGNMENT COORDINATES CENTERLINE IL 185			
POINT	STA.	N	E
POINT PT C11	304+90.36	888,102.614	2,509,376.310
POINT POT 20009	310+30.70	887,857.580	2,509,857.896
POINT PC C12	320+52.14	887,394.378	2,510,768.268

ALIGNMENT COORDINATES BASELINE IL 185			
POINT	STA.	N	E
PT POT BASE001	305+00.00	888,099.678	2,509,385.634
PT POT BASE002	310+30.70	887,858.191	2,509,858.209
PT POT BASE003	314+24.35	887,679.069	2,510,208.739



DETAIL "B"

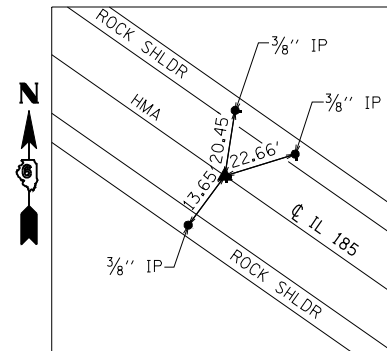


DETAIL "A"

STA. 310+30.70, 0.69' LT. (EXISTING CENTERLINE)
STA. 310+30.70, 0.00' LT. (BASELINE)
SEE DETAIL "B"

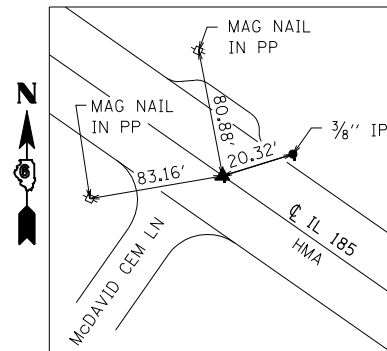
EXISTING AND PROPOSED ROW IS MEASURED TO BASELINE OF IL 185.
PROPOSED BASELINE AND EXISTING CENTERLINE ARE NOT COINCIDENT.
SEE DETAIL "A" AND DETAIL "B".

STA. 314+24.35, 0.00' LT. (EXISTING CENTERLINE)
STA. 314+24.34, 0.00' LT. (BASELINE)



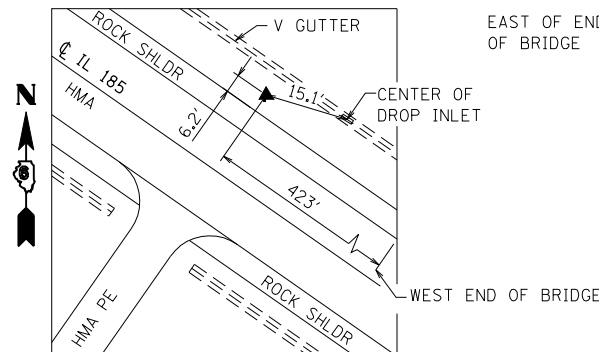
POINT PT C11

PK NAIL IN CHSLD "X"
STA. 304+90.36, 0.00' RT
N 888,102.614
E 2,509,376.310



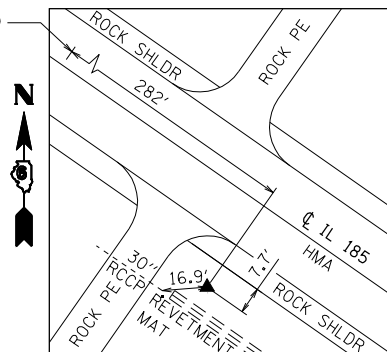
POINT PC C12

PK NAIL IN HMA
STA. 320+52.14, 0.00' RT
N 887,394.378
E 2,510,768.268



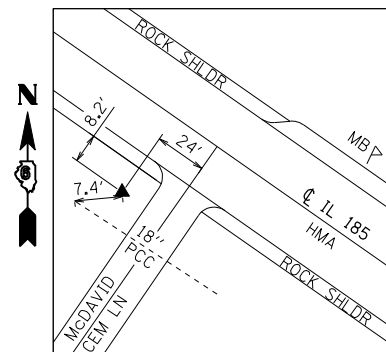
CONTROL POINT 20,000

4 REBAR W. IDOT CAP
STA. 305+89.74, 21.09' LT
N 888,076.346
E 2,509,474.453



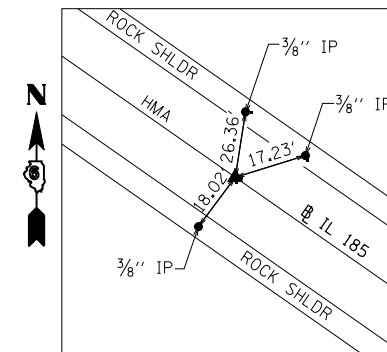
CONTROL POINT 20,001

4 REBAR W. IDOT CAP
STA. 313+34.48, 20.22' RT
N 887,701.802
E 2,510,119.477



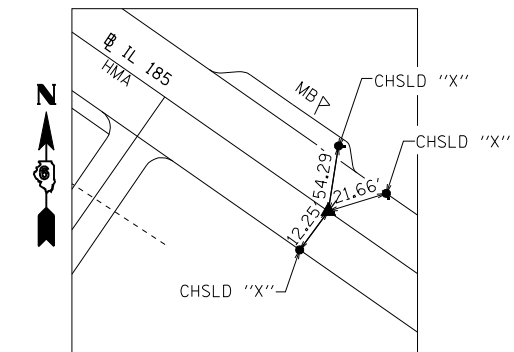
CONTROL POINT 1,000

4 REBAR W. IDOT CAP
STA. 319+81.63, 23.05' RT
N 887,405.809
E 2,510,694.979



POINT POT BASE001

SET PK N&BC W/CHSLD "X"
STA. 305+00.00, 1.61' LT. OF EXIST. C
N 888,099.678
E 2,509,385.634



POINT POT BASE003

SET PK N&BC W/CHSLD "X"
STA. 314+24.35, 0.00' RT. OF EXIST. C
N 887,679.069
E 2,510,208.739

design firm
no. 184001036



USER NAME = gjameson	DESIGNED -	REVISED -
FILE NAME = D672D08-SHT-ATB.dgn	CHECKED -	REVISED -
PLOT SCALE = 400.0000 / IN.	DRAWN -	REVISED -
PLOT DATE = 10/15/2015	CHECKED -	REVISED -

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

ALIGNMENT, TIES AND BENCHMARKS
IL 185 OVER MCDAVID BRANCH

SCALE: 1" = 200' SHEET NO. 1 OF 1 SHEETS STA. 307+05.00 TO STA. 314+00.00

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
777	10B-2, 405B-1	MONTGOMERY	121	25
CONTRACT NO. 72D08				
ILLINOIS FED. AID PROJECT				

BENCHMARK BM 88

STA. 480+98, 59' LT.
COTTON PICKER SPINDLE IN
NORTH SIDE OF POWER POLE
ELEV. 607.07 (NAVD 88 DATUM)

BENCHMARK BM 89

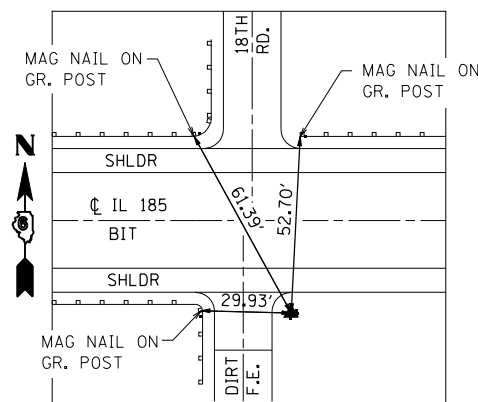
STA. 492+95, 17' LT.
CHSLD "□" ON NE WINGWALL
SN 068-0027
ELEV. 558.70 (NAVD 88 DATUM)

BENCHMARK ZP-1

STA. 501+25, 20' LT.
CHSLD "□" ON NE WINGWALL
SN 068-0505
ELEV. 562.11 (NAVD 88 DATUM)

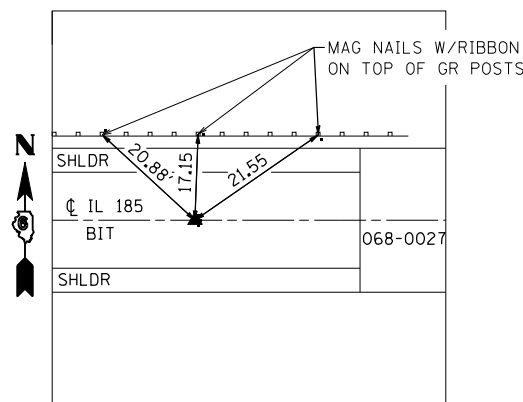
ALIGNMENT COORDINATES IL 185			
POINT	STA.	N	E
PT C5	491+95.83	877,658.762	2,524,692.361
PC C6	495+89.59	877,667.536	2,525,086.025
PI C6	497+90.25	877,672.007	2,525,286.631
PT C6	499+84.98	877,594.230	2,525,471.600

ALIGNMENT COORDINATES EAST 18TH ROAD			
POINT	STA.	N	E
EAST001	10+00.00	877,663.665	2,524,912.320
EAST002	11+53.61	877,817.279	2,524,911.905



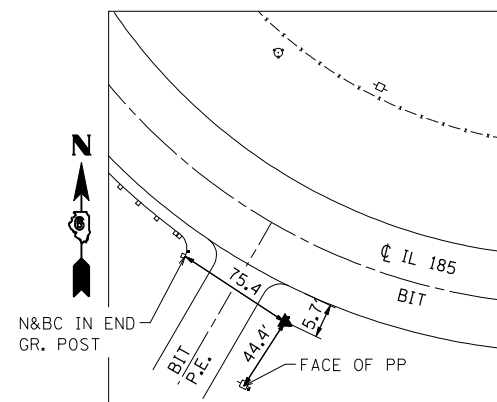
CONTROL POINT 3000

#4 REBAR W/CAP FLUSH
STA. 494+23.29, 29.77' RT
N 877,634,063
E 2,524,920.422



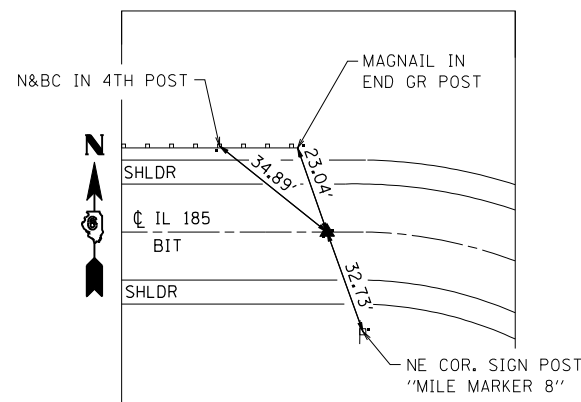
POINT PT C5

MAG NAIL W/CHSLD. "X"
STA. 491+95.83, 0.00' RT
N 877,658.762
E 2,524,692.361



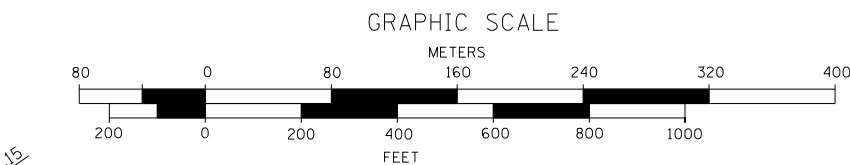
CONTROL POINT 3001

#4 REBAR W/CAP FLUSH
STA. 486+75.16, 21.29' RT
N 877,732.847
E 2,524,175.857

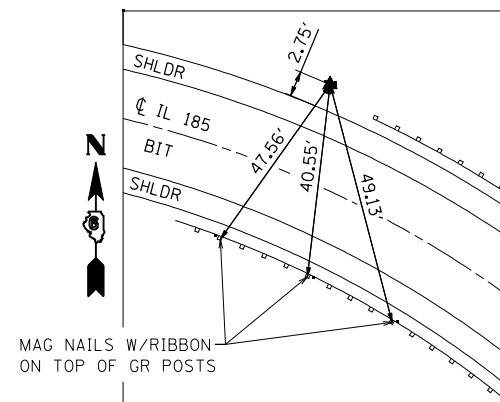
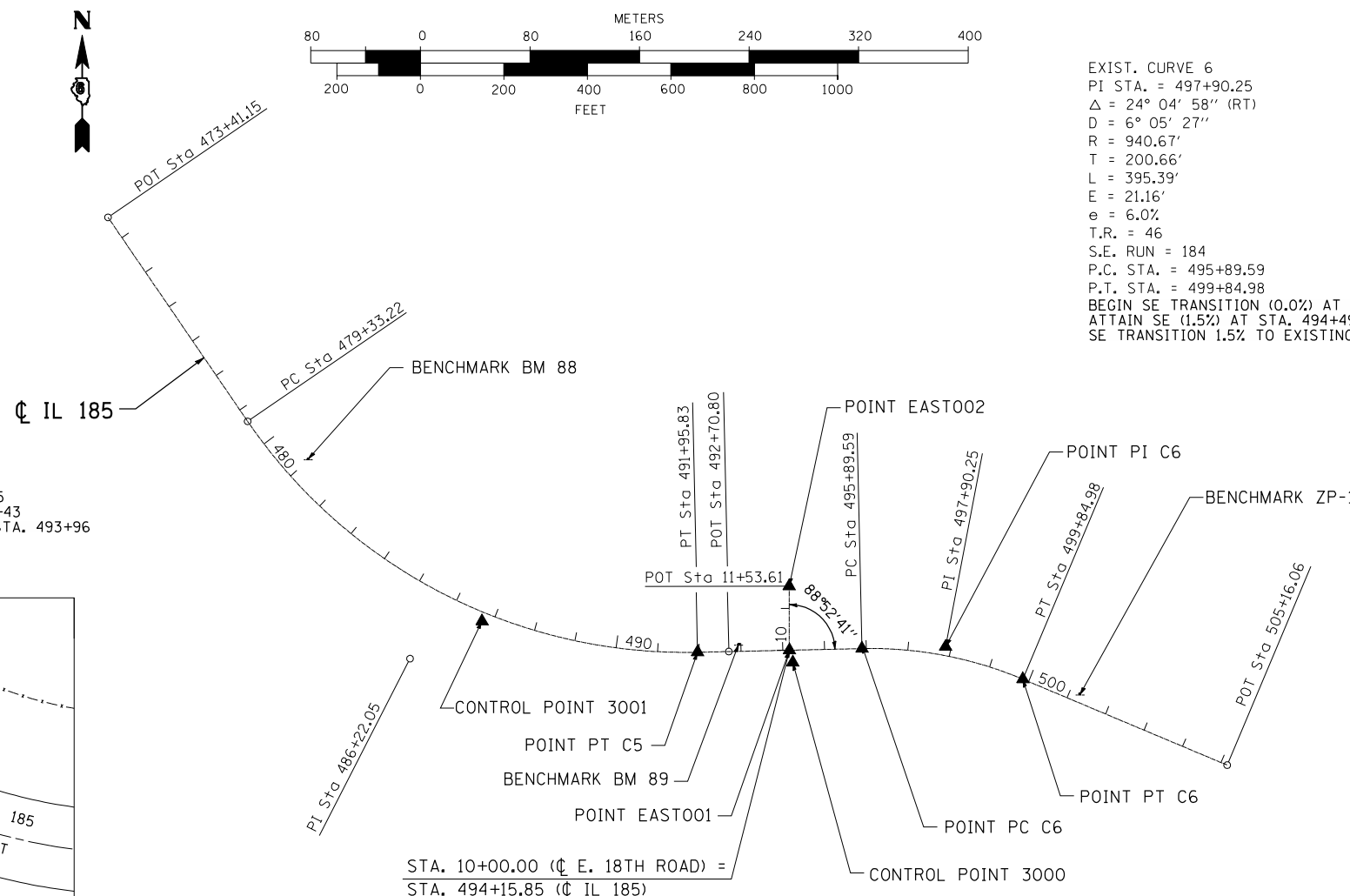


POINT PC C6

PK NAIL W/CHSLD. "X"
STA. 495+89.59, 0.00' RT
N 877,667.536
E 2,525,086.025

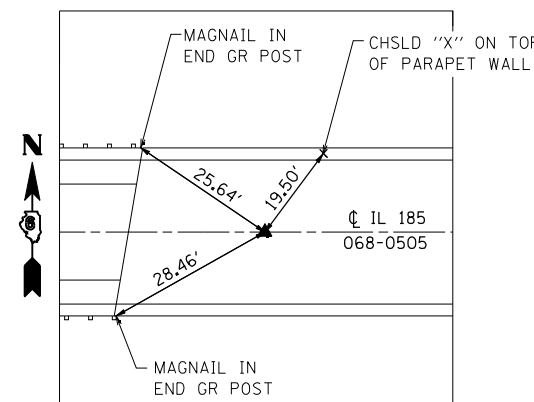


EXIST. CURVE 6
PI STA. = 497+90.25
Δ = 24° 04' 58" (RT)
D = 6° 05' 27"
R = 940.67'
T = 200.66'
L = 395.39'
E = 21.16'
e = 6.0%
T.R. = 46
S.E. RUN = 184
P.C. STA. = 495+89.59
P.T. STA. = 499+84.98
BEGIN SE TRANSITION (0.0%) AT STA. 493+96
ATTAIN SE (1.5%) AT STA. 494+49
SE TRANSITION 1.5% TO EXISTING ±4.2% @ 496+10



POINT PI C6

#5 REBAR W/CAP
STA. 497+90.25, 21.16' LT
N 877,672.007
E 2,525,286.631



POINT PT C6

STAR DRILL W/ CHSLD. "X"
STA. 499+84.98, 0.00' RT
N 877,594.230
E 2,525,471.600

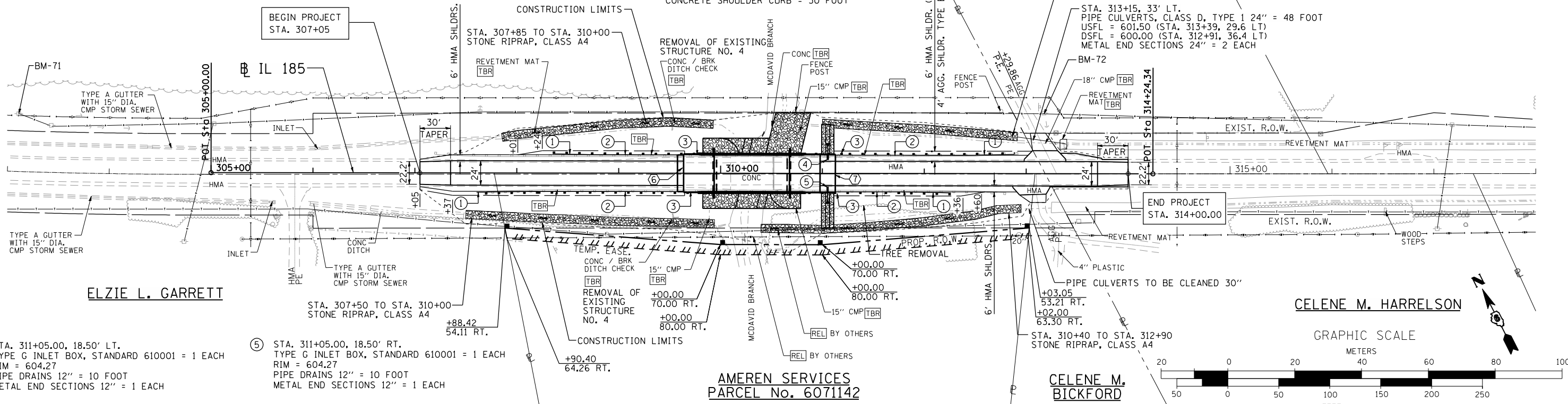
STATE OF ILLINOIS
DEPARTMENT OF NATURAL RESOURCES

KENNETH EUGENE BLANKENSHIP
AND KAREN SUE BLANKENSHIP

- ① TRAFFIC BARRIER TERMINAL, TYPE 1 (SPECIAL) TANGENT
- ② STEEL PLATE BEAM GUARDRAIL, TYPE A, 6 FOOT POSTS
- ③ TRAFFIC BARRIER TERMINAL, TYPE 6

- ⑥ STA. 309+57.70 TO STA. 309+63.70
BRIDGE APPROACH CONNECTOR
PAVEMENT (FLEXIBLE) = 24 S.Y.
- ⑦ STA. 310+97.70 TO STA. 311+12.70
BRIDGE APPROACH CONNECTOR
PAVEMENT (FLEXIBLE) = 63 S.Y.
CONCRETE SHOULDER CURB = 30 FOOT

DATE	
BY	
PLAN	SURVEYED
	NOTED
	CHECKED
	ATTESTED
	FILED
	NO.
	NAME

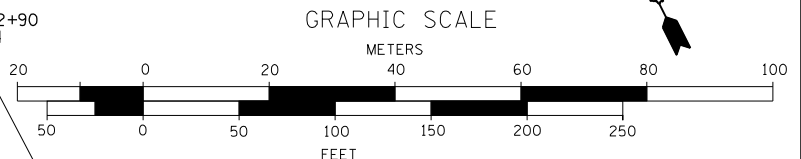


ELZIE L. GARRETT

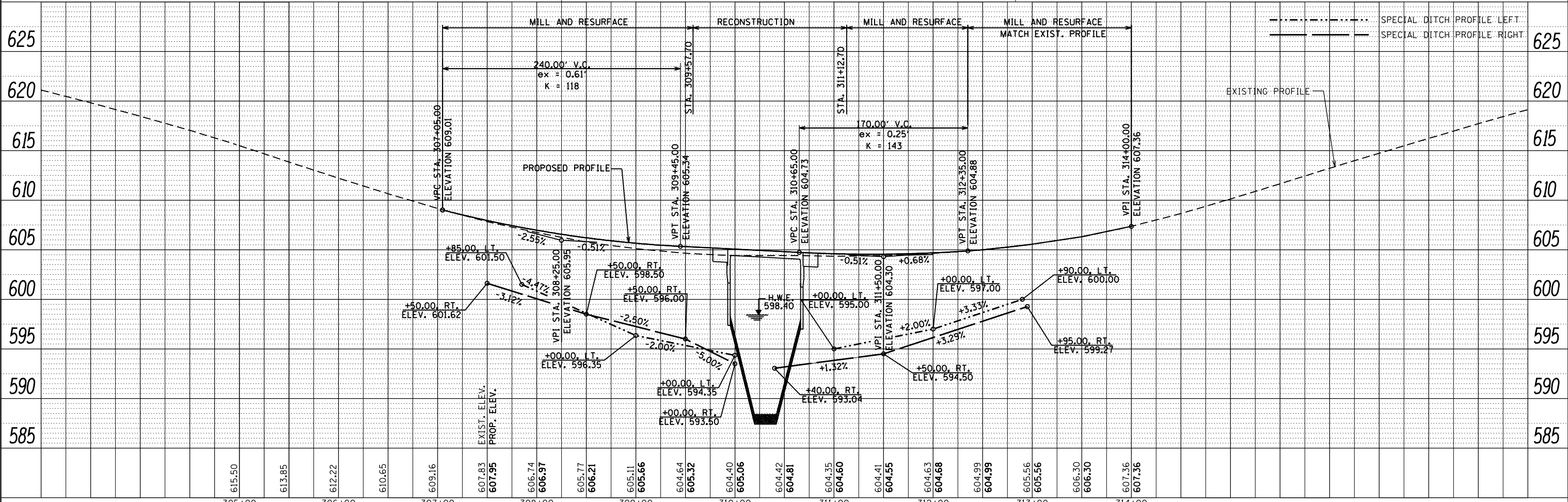
CELENE M. HARRELSON

AMEREN SERVICES
PARCEL No. 6071142

CELENE M.
BICKFORD



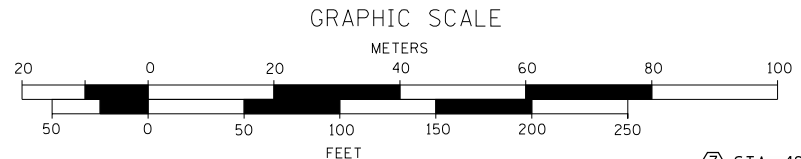
DATE	
BY	
PROFILE	SURVEYED
	NOTED
	CHECKED
	ATTESTED
	FILED
	NO.
	NAME



design firm no. 184001036		USER NAME = gjameson	DESIGNED -	REVISED -	STATE OF ILLINOIS DEPARTMENT OF TRANSPORTATION	PLAN AND PROFILE IL 185 OVER MCDAVID BRANCH	F.A.P. RTE. = 777	SECTION = 10B-2, 405B-1	COUNTY = MONTGOMERY	TOTAL SHEETS = 121	SHEET NO. = 27
		FILE NAME = D672D08-SN0680026-SHT-10B-2-405B.dgn	DRAWN -	REVISED -			CONTRACT NO. 72D08	ILLINOIS FED. AID PROJECT			
PLOT SCALE = 100.0000' / IN.		DRAWN -		SCALE: 1" = 50'		SHEET NO. 1 OF 1 SHEETS		STA. 307+05.00 TO STA. 314+00.00			
PLOT DATE = 10/15/2015		CHECKED -									

EXIST. CURVE 5
 PI STA. = 486+22.05
 $\Delta = 56^\circ 52' 53''$ (LT)
 $D = 4^\circ 30' 18''$
 $R = 1,271.81'$
 $T = 688.83'$
 $L = 1,262.61'$
 $E = 174.56'$
 $e = 5.0\%$
 $T.R. = 53$
 $S.E. RUN = 177$
 $P.C. STA. = 479+33.22$
 $P.T. STA. = 491+95.83$
 END FULL SE AT STA. 490+81
 ATTAIN 1.5% SE AT STA. 492+05
 MAINTAIN 1.5% SE TO STA. 493+43
 END SE TRANSITION (0.0%) AT STA. 493+96

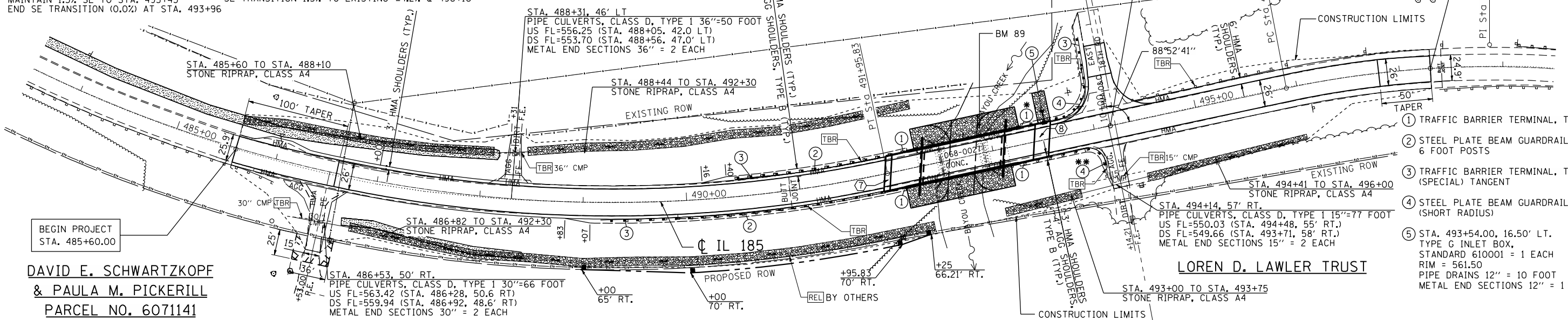
EXIST. CURVE 6
 PI STA. = 497+90.25
 $\Delta = 24^\circ 04' 58''$ (RT)
 $D = 6^\circ 05' 27''$
 $R = 940.67'$
 $T = 200.66'$
 $L = 395.39'$
 $E = 21.16'$
 $e = 6.0\%$
 $T.R. = 46$
 $S.E. RUN = 184$
 $P.C. STA. = 495+89.59$
 $P.T. STA. = 499+84.98$
 BEGIN SE TRANSITION (0.0%) AT STA. 493+96
 ATTAIN 1.5% AT STA. 494+49
 SE TRANSITION 1.5% TO EXISTING $\pm 4.2\%$ @ 496+10



PATRICK & LORA ECK

- * BEND END OF RAIL TO MATCH RADIUS AS SHOWN IN INTERSECTION DETAIL
- ** PLACE END SECTION AT END OF SPBGR, COST INCLUDED WITH STEEL PLATE BEAM GUARDRAIL (SHORT RADIUS)

DATE	
BY	
PLAN	
NO.	
DATE	
BY	
PROFILE	
NO.	

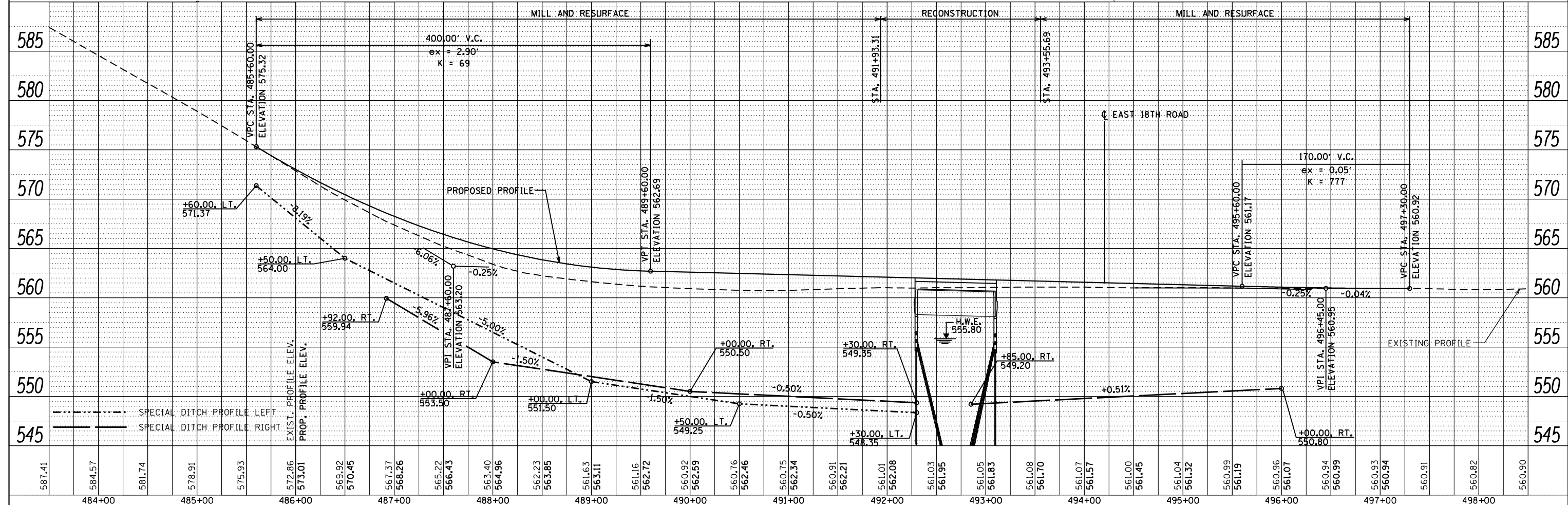


DAVID E. SCHWARTZKOPF
 & PAULA M. PICKERILL
 PARCEL NO. 6071141

LOREN D. LAWLER TRUST

- TRAFFIC BARRIER TERMINAL, TYPE 6
- STEEL PLATE BEAM GUARDRAIL, TYPE A, 6 FOOT POSTS
- TRAFFIC BARRIER TERMINAL, TYPE 1 (SPECIAL) TANGENT
- STEEL PLATE BEAM GUARDRAIL, (SHORT RADIUS)
- STA. 493+54.00, 16.50' LT. TYPE G INLET BOX, STANDARD 610001 = 1 EACH RIM = 561.50 PIPE DRAINS 12" = 10 FOOT METAL END SECTIONS 12" = 1 EACH

DATE	
BY	
PROFILE	
NO.	
DATE	
BY	
PLAN	
NO.	



design firm
 no. 184001036
whks
 engineers • planners • land surveyors

USER NAME = gjameson	DESIGNED -	REVISED -
FILE NAME = D672D08-SN0680027-PLAN	CHECKED -	REVISED -
PLOT SCALE = 100.0000' / IN.	DRAWN -	REVISED -
PLOT DATE = 10/15/2015	CHECKED -	REVISED -

STATE OF ILLINOIS
 DEPARTMENT OF TRANSPORTATION

PLAN AND PROFILE
 IL RTE 185 OVER BAYOU CREEK
 SCALE: 1" = 50'
 SHEET NO. 1 OF 1 SHEETS
 STA. 485+60 TO STA. 497+30

F.A.P. RTE. 777	SECTION 10B-2, 405B-1	COUNTY MONTGOMERY	TOTAL SHEETS 121	SHEET NO. 28
CONTRACT NO. 72D08			ILLINOIS FED. AID PROJECT	

SUGGESTED SEQUENCE OF CONSTRUCTION

PRE-STAGE CONSTRUCTION:

1. TRAFFIC REMAINS ON EXISTING PAVEMENT.
2. REMOVE THE EXISTING HMA SHOULDERS/WIDENING ALONG THE NORTH SIDE OF IL 185 AS SHOWN IN THE PLANS.
3. CONSTRUCT THE WIDENING ALONG THE NORTH SIDE OF IL 185. USE HIGHWAY STANDARD 701326.
4. INSTALL WIDTH RESTRICTION SIGNING.
5. INSTALL SIGNS AND TEMPORARY BRIDGE TRAFFIC SIGNAL LOOP DETECTORS. USE HIGHWAY STANDARD 701201 OR OTHER APPLICABLE STANDARDS.


STAGE I CONSTRUCTION:

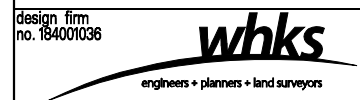
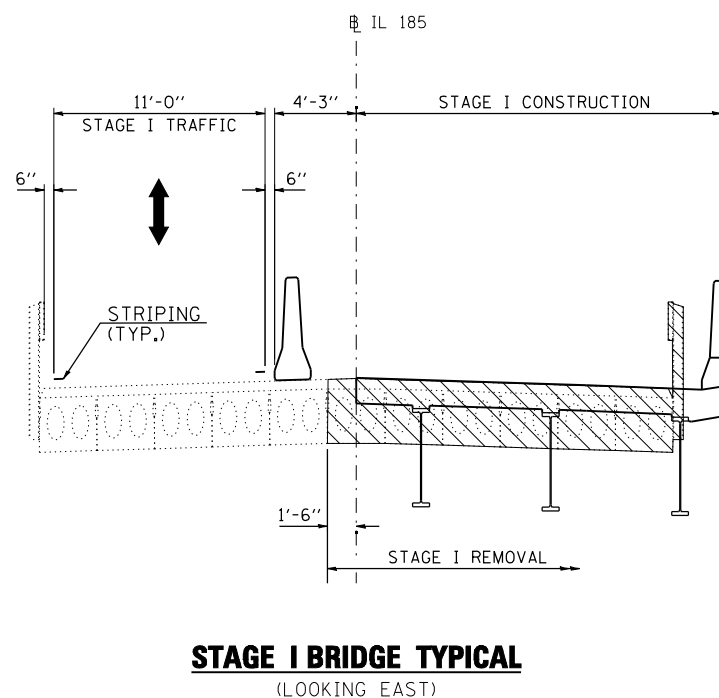
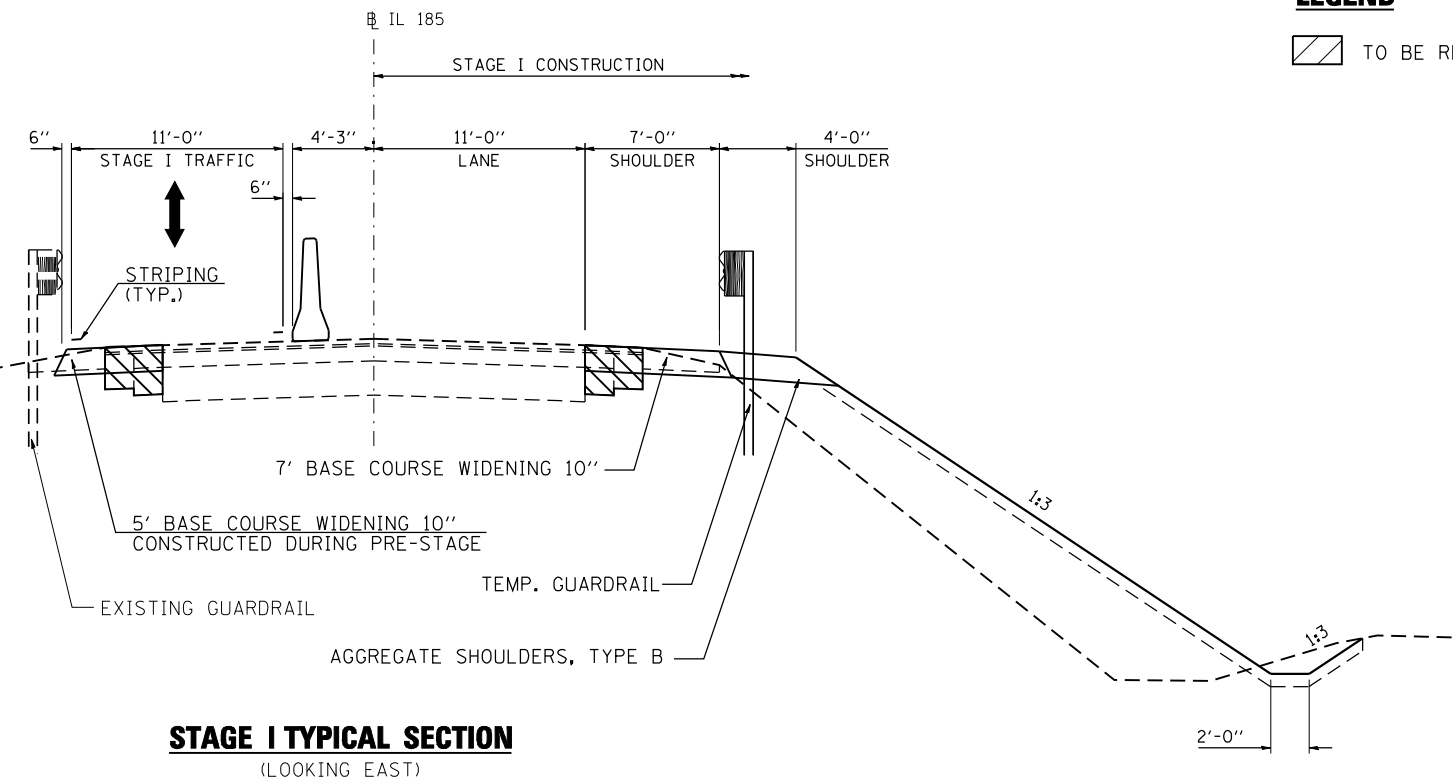
1. REMOVE CONFLICTING STRIPING AND INSTALL TEMPORARY CONCRETE BARRIERS, TEMPORARY IMPACT ATTENUATORS, TEMPORARY STRIPING AND TEMPORARY BRIDGE TRAFFIC SIGNALS AS SHOWN ON THE PLANS. INSTALL OTHER TRAFFIC CONTROL AND PROTECTION USING HIGHWAY STANDARD 701321.
2. SHIFT TRAFFIC TO STAGE I LANE.
3. REMOVE THE SOUTH HALF OF EXISTING BRIDGE.
4. REMOVE EXISTING GUARDRAIL AND SHOULDERS/WIDENING ALONG THE SOUTH SIDE OF IL 185.
5. CONSTRUCT SOUTH HALF OF PROPOSED BRIDGE, CONNECTOR PAVEMENT AND EARTHWORK.
6. CONSTRUCT WIDENING, TEMPORARY RAMPS, AGGREGATE SHOULDERS AND TEMPORARY GUARDRAIL ALONG THE SOUTH SIDE OF IL 185.

GENERAL STAGING NOTES

1. REFER TO THE PLAN AND PROFILE SHEETS AND BRIDGE PLANS FOR DRAINAGE ITEMS AND IN-STREAM WORK.
2. THE CONTRACTOR SHALL MAINTAIN ACCESS TO ALL ENTRANCES AT ALL TIMES DURING CONSTRUCTION.
3. THE TRAFFIC CONTROL PLANS SHALL BE USED IN CONJUNCTION WITH APPLICABLE HIGHWAY STANDARDS.
4. VERTICAL PANELS, DRUMS WITH STEADY BURNING LIGHTS, TYPE III BARRICADES, SIGNS, MICROWAVE DETECTOR SYSTEMS, DETECTOR LOOPS AND TYPE C BI-DIRECTIONAL REFLECTORS SHALL BE INCLUDED IN THE COST FOR TRAFFIC CONTROL AND PROTECTION, STANDARD 701321. TEMPORARY PAVEMENT MARKINGS, TEMPORARY BRIDGE TRAFFIC SIGNALS, CHANGEABLE MESSAGE SIGNS AND TEMPORARY RUMBLE STRIPS SHALL BE PAID FOR SEPARATELY.
5. THE CONTRACTOR SHALL PROVIDE AND ERECT LANE WIDTH RESTRICTION SIGNING. THESE SIGNS SHALL BE PLACED AS DIRECTED BY THE ENGINEER BEFORE IMPLEMENTING ANY STAGE I TRAFFIC CONTROL. SEE SPECIAL PROVISIONS.
6. THE CONTRACTOR SHALL NOTIFY THE DISTRICT 6 TRAFFIC SECTION OF THE BUREAU OF OPERATIONS, PH: (217) 785-7314, AT LEAST 21 DAYS PRIOR TO IMPLEMENTING STAGE I TRAFFIC AND WHEN A SWITCH IN STAGING IS MADE.
7. THE CONTRACTOR SHALL NOTIFY THE DISTRICT 6 TRAFFIC SECTION OF THE BUREAU OF OPERATIONS AT LEAST THREE (3) DAYS PRIOR TO ACTIVATING THE TEMPORARY BRIDGE TRAFFIC SIGNALS. SEE SPECIAL PROVISIONS FOR TEMPORARY BRIDGE TRAFFIC SIGNALS.
8. UNLESS OTHERWISE INDICATED, TEMPORARY BRIDGE TRAFFIC SIGNALS, STOP BARS, TEMPORARY RUMBLE STRIPS, DETECTOR LOOPS AND ADVANCE SIGN LOCATIONS TO REMAIN IN PLACE THROUGHOUT THE DURATION OF STAGES I AND II AS PER HIGHWAY STANDARD 701321.
9. ALL TEMPORARY TRAFFIC SIGNALS REQUIRED FOR BRIDGE AND ENTRANCES FOR BOTH STAGES OF CONSTRUCTION WILL BE MEASURED AS 1 UNIT.
10. THE INTENT OF THE TEMPORARY GUARDRAIL AND TERMINAL SECTIONS IS TO ALLOW FOR SAFE PLACEMENT (CORRECT ELEVATION AND OFFSET) DURING TEMPORARY OR STAGE CONDITIONS. THE COST FOR SUPPLYING THE TEMPORARY GUARDRAIL AND TERMINAL SECTIONS AND ADJUSTING TO PERMANENT CONDITIONS SHALL BE CONSIDERED IN THE TEMPORARY PAY ITEMS INCLUDED IN THE CONTRACT. THIS WORK SHALL INCLUDE ANY EXTRA MATERIAL, CORING OR FILLING HOLES FOR POST INSTALLATION, LABOR AND MATERIALS FOR ALL ADJUSTMENTS AND ANY ADDITIONAL WORK NECESSARY TO PROVIDE SAFE GUARDRAIL CONDITIONS FOR TEMPORARY AND PERMANENT CONDITIONS. ADJUSTMENTS MAY BE MADE BY THE DIRECTION OF THE ENGINEER.

LEGEND

 TO BE REMOVED



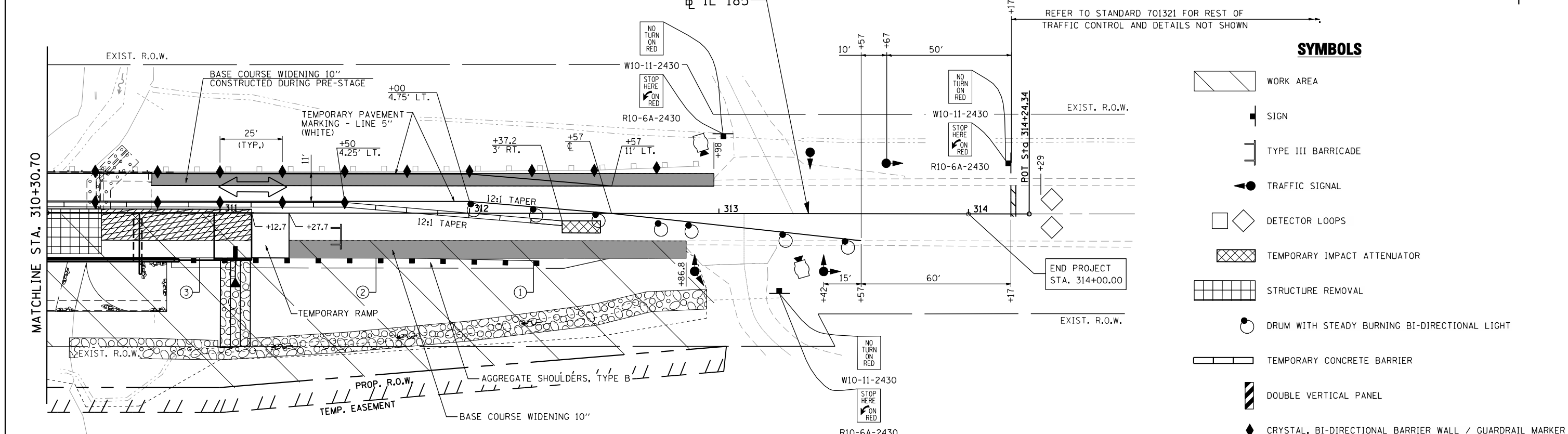
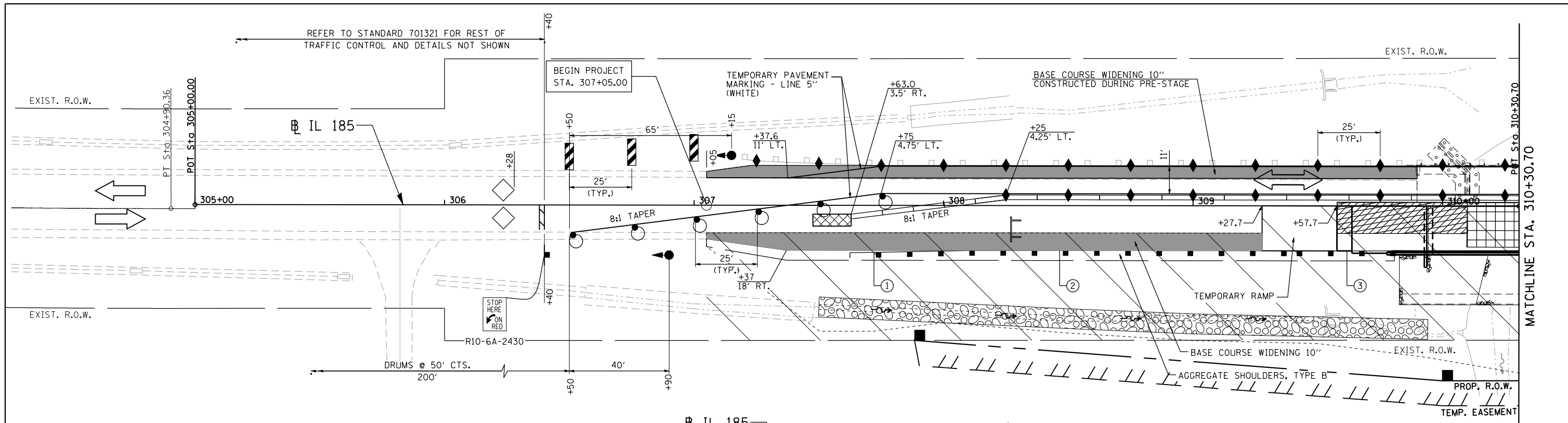
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PLOT SCALE = 10.0000' / IN.	DRAWN -	REVISED
PLOT DATE = 10/15/2015	CHECKED -	REVISED

**STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION**

**TRAFFIC CONTROL TYPICAL SECTIONS - STAGE I
IL 185 OVER MCDAVID BRANCH**

SCALE: 1" = 10' SHEET NO. 1 OF 1 SHEETS STA. TO STA.

F.A. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
777	10B-2, 405B-1	MONTGOMERY	121	29
CONTRACT NO. 72D08				
ILLINOIS FED. AID PROJECT				

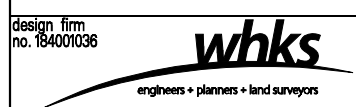


SYMBOLS

- WORK AREA
- SIGN
- TYPE III BARRICADE
- TRAFFIC SIGNAL
- DETECTOR LOOPS
- TEMPORARY IMPACT ATTENUATOR
- STRUCTURE REMOVAL
- DRUM WITH STEADY BURNING BI-DIRECTIONAL LIGHT
- TEMPORARY CONCRETE BARRIER
- DOUBLE VERTICAL PANEL
- CRYSTAL, BI-DIRECTIONAL BARRIER WALL / GUARDRAIL MARKER
- BASE COURSE WIDENING 10"
- PAVEMENT REMOVAL
- TEMPORARY PAVEMENT MARKING-LINE 24" (WHITE)
- MICROWAVE DETECTOR SYSTEM

- ① TEMPORARY TRAFFIC BARRIER TERMINAL, TYPE 1 (SPECIAL) TANGENT
- ② TEMPORARY STEEL PLATE BEAM GUARDRAIL, TYPE A, 6 FOOT POSTS
- ③ TEMPORARY TRAFFIC BARRIER TERMINAL, TYPE 6

NOTE:
DETECTOR AND SIGNALS SHOULD BE PROVIDED FOR ALL PRIVATE ENTRANCES SHOWN AND THE PHASING AS DIRECTED BY DISTRICT 6 BUREAU OF OPERATIONS.



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FILE NAME = D672D08-SN0680026-SHT-CHECKED.dgn	CHECKED -	REVISED
PLOT SCALE = 40.0000' / IN.	DRAWN -	REVISED
PLOT DATE = 10/15/2015	CHECKED -	REVISED

**STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION**

**TRAFFIC CONTROL PLAN - STAGE I
IL 185 OVER MCDAVID BRANCH**

SCALE: 1" = 20' SHEET NO. 1 OF 1 SHEETS STA. 307+05 TO STA. 314+00

F.A. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
777	10B-2, 405B-1	MONTGOMERY	121	30
CONTRACT NO. 72D08				
ILLINOIS FED. AID PROJECT				

SUGGESTED SEQUENCE OF CONSTRUCTION


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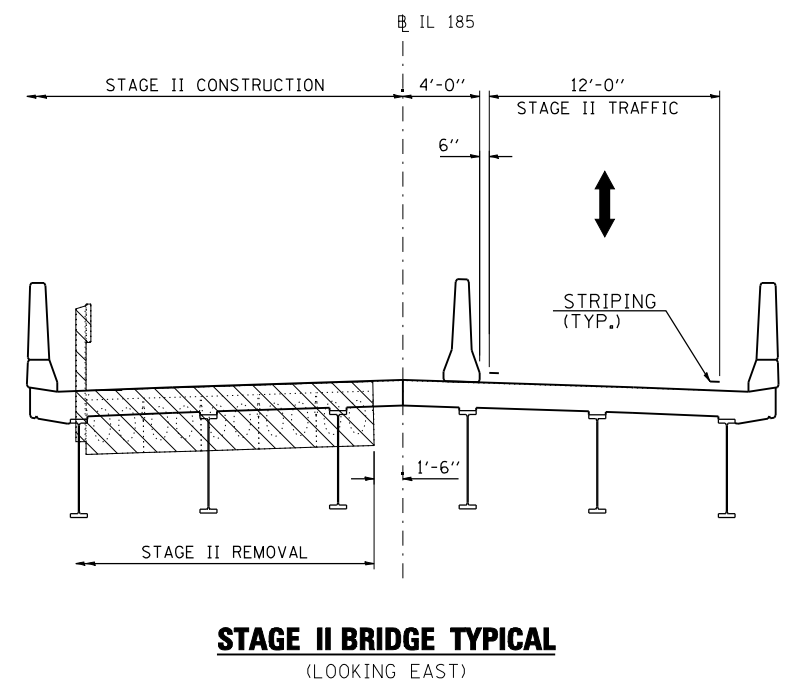
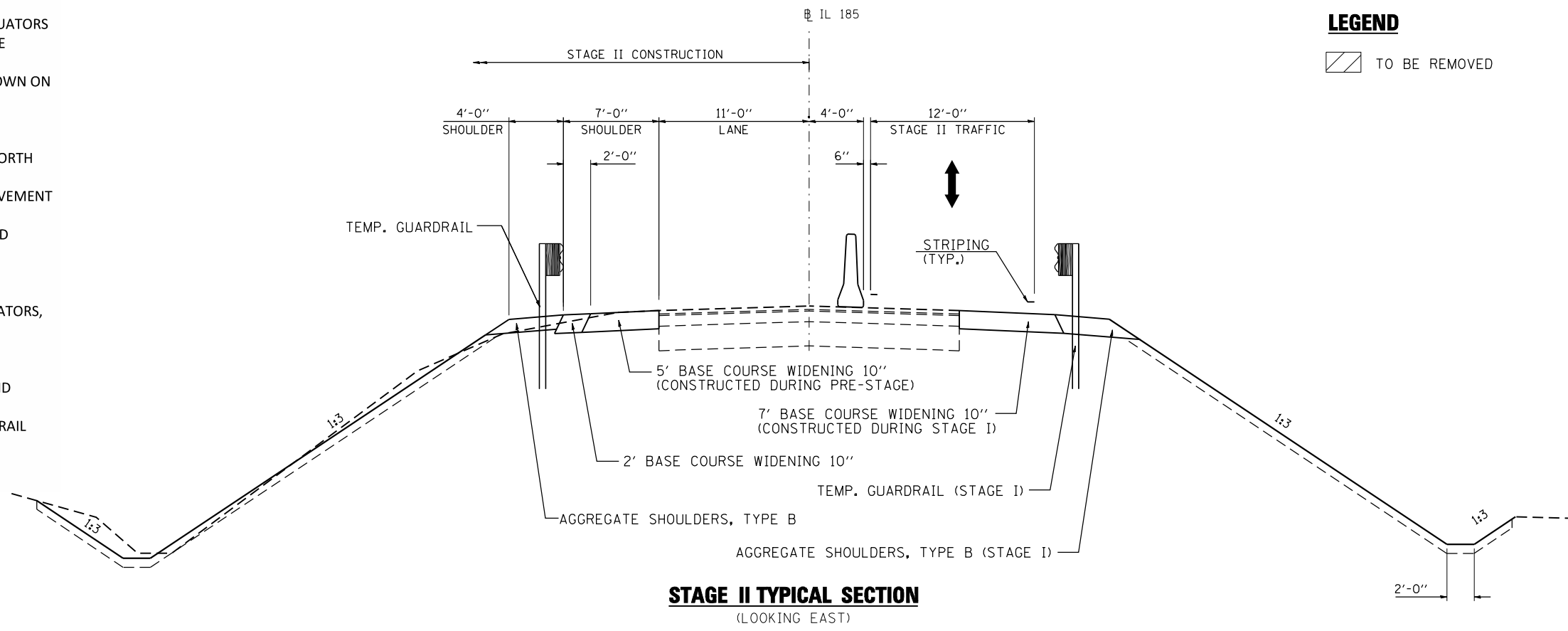
1. RELOCATE TEMPORARY CONCRETE BARRIERS, TEMPORARY IMPACT ATTENUATORS AND TEMPORARY BRIDGE TRAFFIC SIGNALS AS SHOWN ON THE PLANS. USE HIGHWAY STANDARD 701321.
2. REMOVE CONFLICTING STRIPING AND PLACE TEMPORARY STRIPING AS SHOWN ON THE PLANS.
3. SHIFT TRAFFIC TO STAGE II LANE.
4. REMOVE THE NORTH HALF OF THE EXISTING BRIDGE.
5. REMOVE EXISTING GUARDRAIL AND SHOULDERS/WIDENING ALONG THE NORTH SIDE OF IL 185.
6. CONSTRUCT THE NORTH HALF OF THE PROPOSED BRIDGE, CONNECTOR PAVEMENT EARTHWORK.
7. CONSTRUCT WIDENING, TEMPORARY RAMPS, AGGREGATE SHOULDERS AND TEMPORARY GUARDRAIL ALONG THE NORTH SIDE OF IL 185.

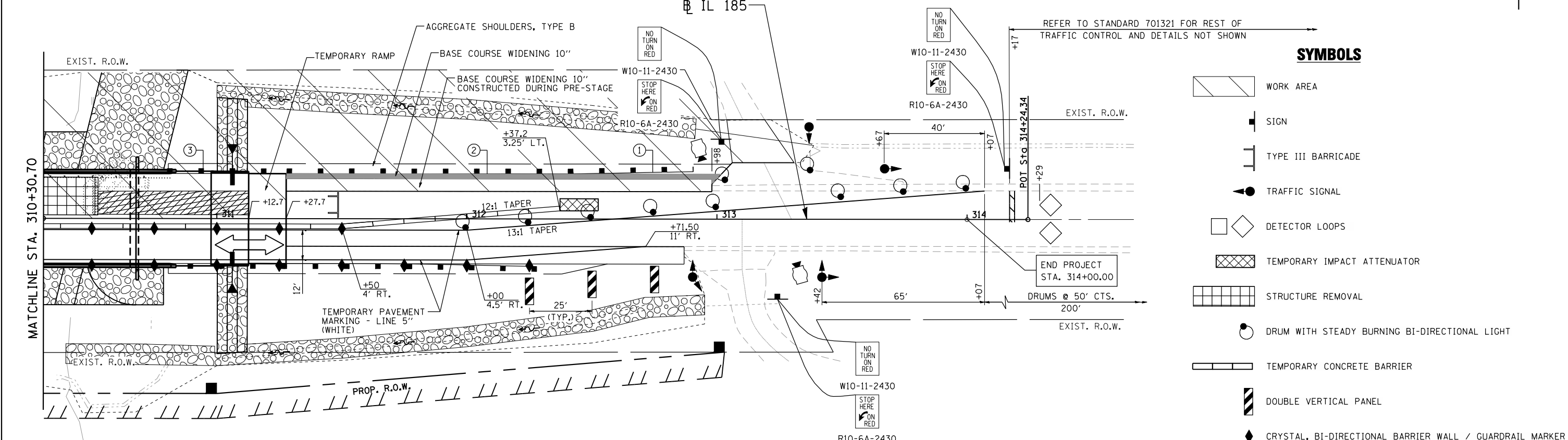
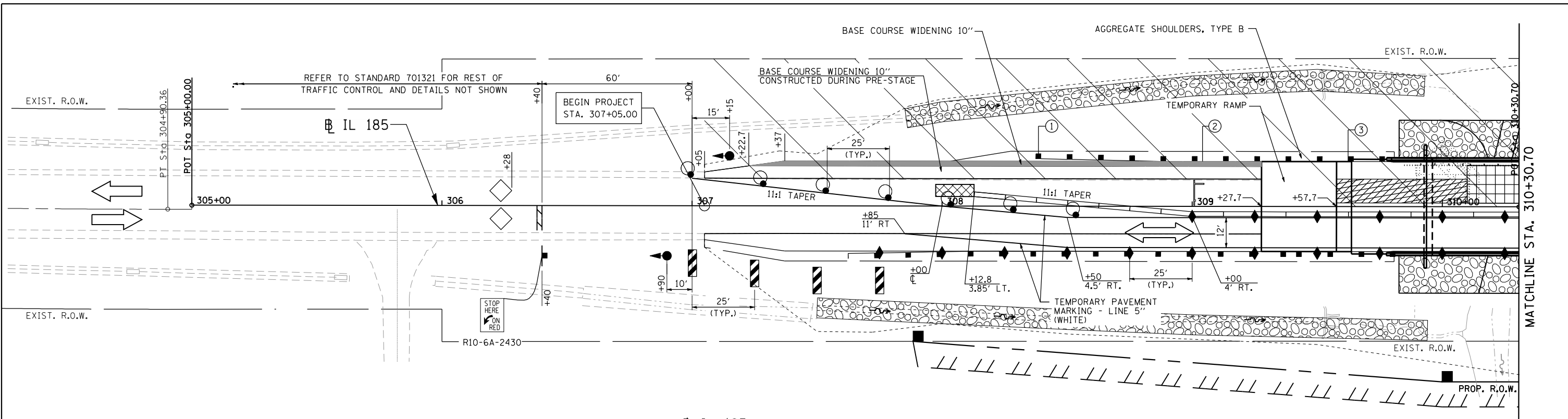
STAGE III CONSTRUCTION:

1. REMOVE TEMPORARY CONCRETE BARRIERS, TEMPORARY IMPACT ATTENUATORS, TEMPORARY TRAFFIC SIGNALS AND WIDTH RESTRICTION SIGNING.
2. REMOVE CONFLICTING STRIPING AND PLACE TEMPORARY STRIPING.
3. SHIFT TRAFFIC TO THE EXISTING LANES.
4. REMOVE TEMPORARY RAMPS, MILL AND CONSTRUCT THE HMA BINDER AND SURFACE COURSES USING HIGHWAY STANDARD 701306.
5. CONSTRUCT HMA AND AGGREGATE SHOULDERS AND PERMANENT GUARDRAIL USING HIGHWAY STANDARD 701326.
6. FINISH EARTHWORK AND GRADING AND SEED DISTURBED AREAS.
7. PLACE FINAL STRIPING AND CLEANUP.

LEGEND

 TO BE REMOVED



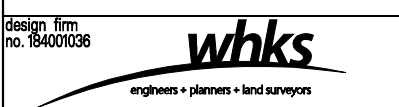


SYMBOLS

- WORK AREA
- SIGN
- TYPE III BARRICADE
- TRAFFIC SIGNAL
- DETECTOR LOOPS
- TEMPORARY IMPACT ATTENUATOR
- STRUCTURE REMOVAL
- DRUM WITH STEADY BURNING BI-DIRECTIONAL LIGHT
- TEMPORARY CONCRETE BARRIER
- DOUBLE VERTICAL PANEL
- CRYSTAL, BI-DIRECTIONAL BARRIER WALL / GUARDRAIL MARKER
- BASE COURSE WIDENING 10"
- PAVEMENT REMOVAL
- TEMPORARY PAVEMENT MARKING-LINE 24" (WHITE)
- MICROWAVE DETECTOR SYSTEM

- ① TEMPORARY TRAFFIC BARRIER TERMINAL, TYPE 1 (SPECIAL) TANGENT
- ② TEMPORARY STEEL PLATE BEAM GUARDRAIL, TYPE A, 6 FOOT POSTS
- ③ TEMPORARY TRAFFIC BARRIER TERMINAL, TYPE 6

NOTE:
 DETECTOR AND SIGNALS SHOULD BE PROVIDED FOR ALL PRIVATE ENTRANCES SHOWN AND THE PHASING AS DIRECTED BY DISTRICT 6 BUREAU OF OPERATIONS.



USER NAME = gjameson	DESIGNED -	REVISED
FILE NAME = D672D08-SN0680026-SHT-SMCKRED.dgn	CHECKED -	REVISED
PLOT SCALE = 40.0000' / IN.	DRAWN -	REVISED
PLOT DATE = 10/15/2015	CHECKED -	REVISED

**STATE OF ILLINOIS
 DEPARTMENT OF TRANSPORTATION**

**TRAFFIC CONTROL PLAN - STAGE II
 IL 185 OVER MCDAVID BRANCH**

SCALE: 1" = 20' SHEET NO. 1 OF 1 SHEETS STA. 307+05 TO STA. 314+00

F.A. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
777	10B-2, 405B-1	MONTGOMERY	121	32
CONTRACT NO. 72D08				
ILLINOIS FED. AID PROJECT				

SUGGESTED SEQUENCE OF CONSTRUCTION

PRE-STAGE CONSTRUCTION:

1. TRAFFIC REMAINS ON EXISTING PAVEMENT.
2. REMOVE THE EXISTING GUARDRAIL (NW ONLY), HMA SHOULDERS/WIDENING ALONG THE NORTH SIDE OF IL 185 AS SHOWN IN THE PLANS.
3. CONSTRUCT THE WIDENING ALONG THE NORTH SIDE OF IL 185. USE HIGHWAY STANDARD 701326.
4. INSTALL TEMPORARY GUARDRAIL (NW ONLY).
5. INSTALL WIDTH RESTRICTION SIGNING.
6. INSTALL SIGNS AND TEMPORARY BRIDGE TRAFFIC SIGNAL LOOP DETECTORS. USE HIGHWAY STANDARD 701201 OR OTHER APPLICABLE STANDARDS.


STAGE I CONSTRUCTION:

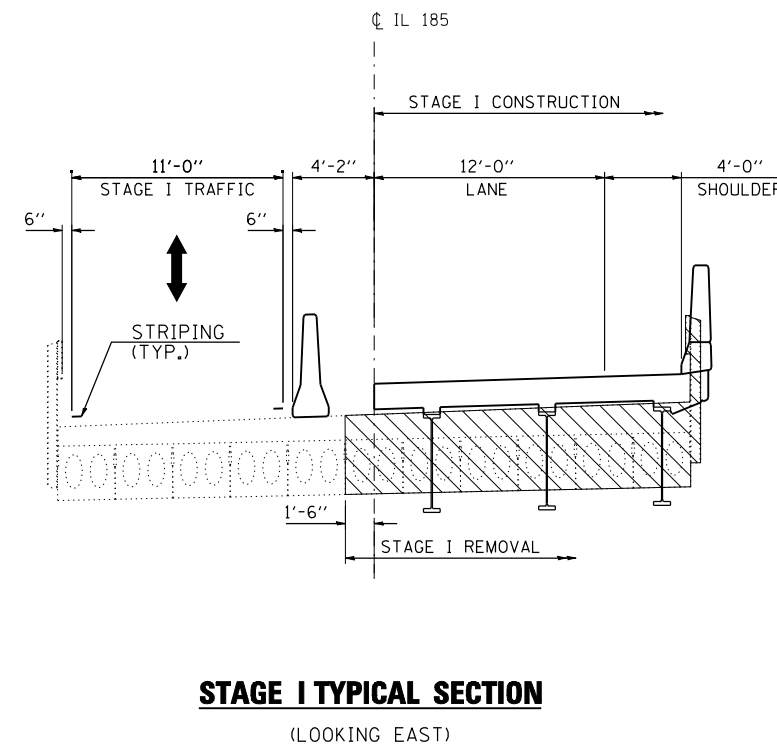
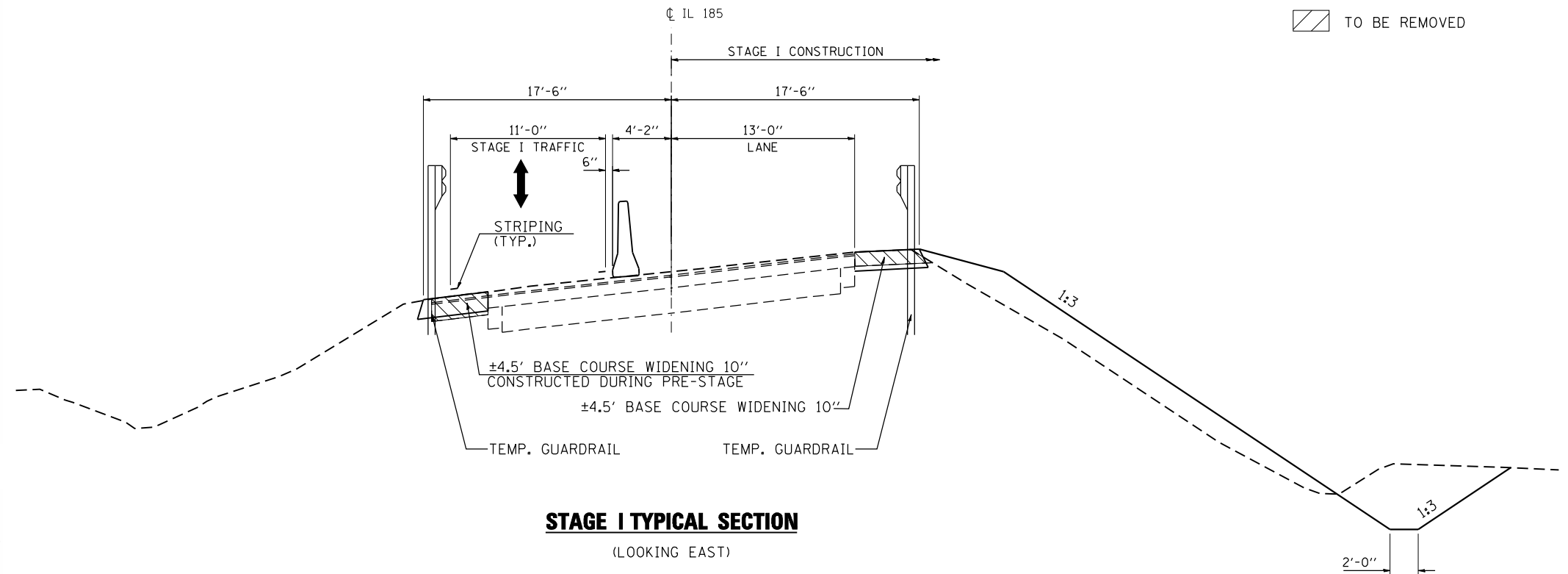
1. REMOVE CONFLICTING STRIPING AND INSTALL TEMPORARY CONCRETE BARRIERS, TEMPORARY IMPACT ATTENUATORS, TEMPORARY STRIPING AND TEMPORARY BRIDGE TRAFFIC SIGNALS AS SHOWN ON THE PLANS. INSTALL OTHER TRAFFIC CONTROL AND PROTECTION USING HIGHWAY STANDARD 701321.
2. SHIFT TRAFFIC TO STAGE I LANE.
3. REMOVE THE SOUTH HALF OF EXISTING BRIDGE.
4. REMOVE EXISTING GUARDRAIL, SHOULDERS/WIDENING AND PIPE CULVERTS ALONG THE SOUTH SIDE OF IL 185.
5. CONSTRUCT SOUTH HALF OF PROPOSED BRIDGE, CONNECTOR PAVEMENT AND EARTHWORK.
6. CONSTRUCT WIDENING, TEMPORARY RAMPS, AGGREGATE SHOULDERS, PIPE CULVERTS AND TEMPORARY GUARDRAIL ALONG THE SOUTH SIDE OF IL 185.

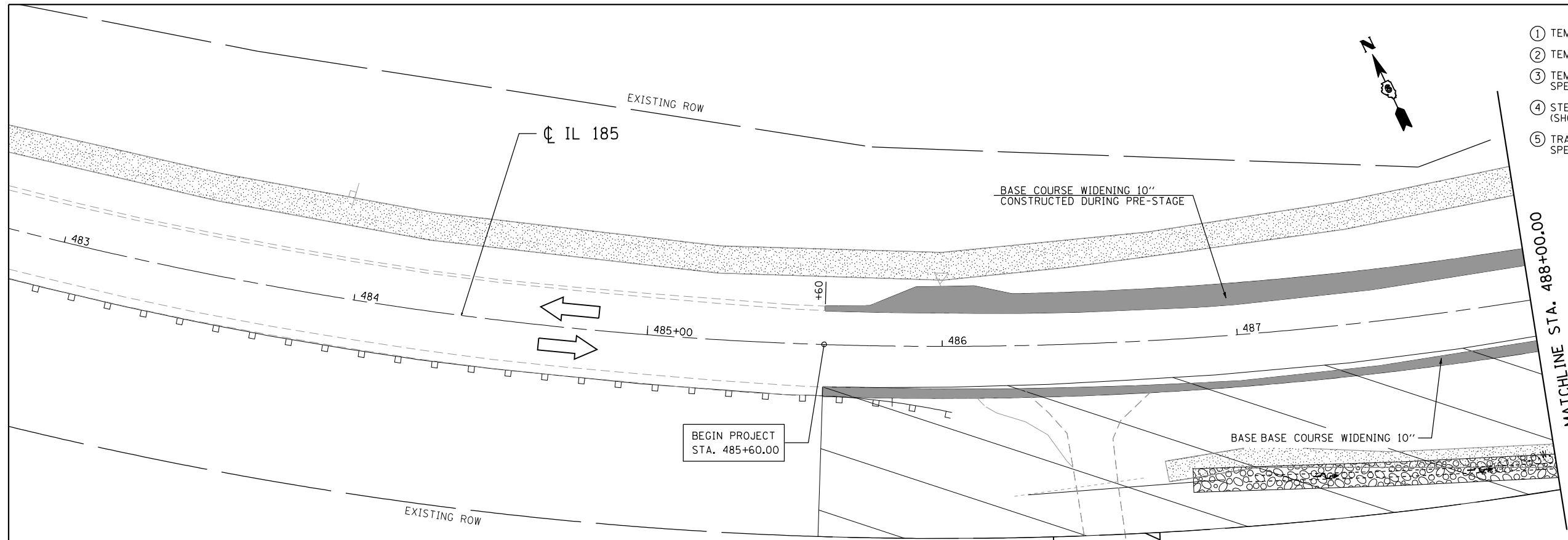
GENERAL STAGING NOTES

1. REFER TO THE PLAN AND PROFILE SHEETS AND BRIDGE PLANS FOR DRAINAGE ITEMS AND IN-STREAM WORK.
2. THE CONTRACTOR SHALL MAINTAIN ACCESS TO ALL ENTRANCES AT ALL TIMES DURING CONSTRUCTION.
3. THE TRAFFIC CONTROL PLANS SHALL BE USED IN CONJUNCTION WITH APPLICABLE HIGHWAY STANDARDS.
4. VERTICAL PANELS, DRUMS WITH STEADY BURNING LIGHTS, TYPE III BARRICADES, SIGNS, MICROWAVE DETECTOR SYSTEMS, DETECTOR LOOPS AND TYPE C BI-DIRECTIONAL REFLECTORS SHALL BE INCLUDED IN THE COST FOR TRAFFIC CONTROL AND PROTECTION, STANDARD 701321. TEMPORARY PAVEMENT MARKINGS, TEMPORARY BRIDGE TRAFFIC SIGNALS, CHANGEABLE MESSAGE SIGNS AND TEMPORARY RUMBLE STRIPS SHALL BE PAID FOR SEPARATELY.
5. THE CONTRACTOR SHALL PROVIDE AND ERECT LANE WIDTH RESTRICTION SIGNING. THESE SIGNS SHALL BE PLACED AS DIRECTED BY THE ENGINEER BEFORE IMPLEMENTING ANY STAGE I TRAFFIC CONTROL. SEE SPECIAL PROVISIONS.
6. THE CONTRACTOR SHALL NOTIFY THE DISTRICT 6 TRAFFIC SECTION OF THE BUREAU OF OPERATIONS, PH: (217) 785-7314, AT LEAST 21 DAYS PRIOR TO IMPLEMENTING STAGE I TRAFFIC AND WHEN A SWITCH IN STAGING IS MADE.
7. THE CONTRACTOR SHALL NOTIFY THE DISTRICT 6 TRAFFIC SECTION OF THE BUREAU OF OPERATIONS AT LEAST THREE (3) DAYS PRIOR TO ACTIVATING THE TEMPORARY TRAFFIC SIGNALS. SEE SPECIAL PROVISIONS FOR TEMPORARY BRIDGE TRAFFIC SIGNALS.
8. UNLESS OTHERWISE INDICATED, TEMPORARY BRIDGE TRAFFIC SIGNALS, STOP BARS, TEMPORARY RUMBLE STRIPS, DETECTOR LOOPS AND ADVANCE SIGN LOCATIONS TO REMAIN IN PLACE THROUGHOUT THE DURATION OF STAGES I AND II AS PER HIGHWAY STANDARD 701321.
9. ALL TEMPORARY TRAFFIC SIGNALS REQUIRED FOR BRIDGE AND ENTRANCES FOR BOTH STAGES OF CONSTRUCTION WILL BE MEASURED AS 1 UNIT.
10. THE INTENT OF THE TEMPORARY GUARDRAIL AND TERMINALS SECTIONS IS TO ALLOW FOR SAFE PLACEMENT (CORRECT ELEVATION AND OFFSET) DURING TEMPORARY OR STAGE CONDITIONS. THE COST FOR SUPPLYING THE TEMPORARY GUARDRAIL AND TERMINAL SECTIONS AND ADJUSTING TO PERMANENT CONDITIONS SHALL BE CONSIDERED IN THE TEMPORARY PAY ITEMS INCLUDED IN THE CONTRACT. THIS WORK SHALL INCLUDE ANY EXTRA MATERIAL, CORING OR FILLING HOLES FOR POST INSTALLATION, LABOR AND MATERIALS FOR ALL ADJUSTMENTS AND ANY ADDITIONAL WORK NECESSARY TO PROVIDE SAFE GUARDRAIL CONDITIONS FOR TEMPORARY AND PERMANENT CONDITIONS. ADJUSTMENTS MAY BE MADE BY THE DIRECTION OF THE ENGINEER.

LEGEND

 TO BE REMOVED



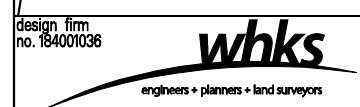
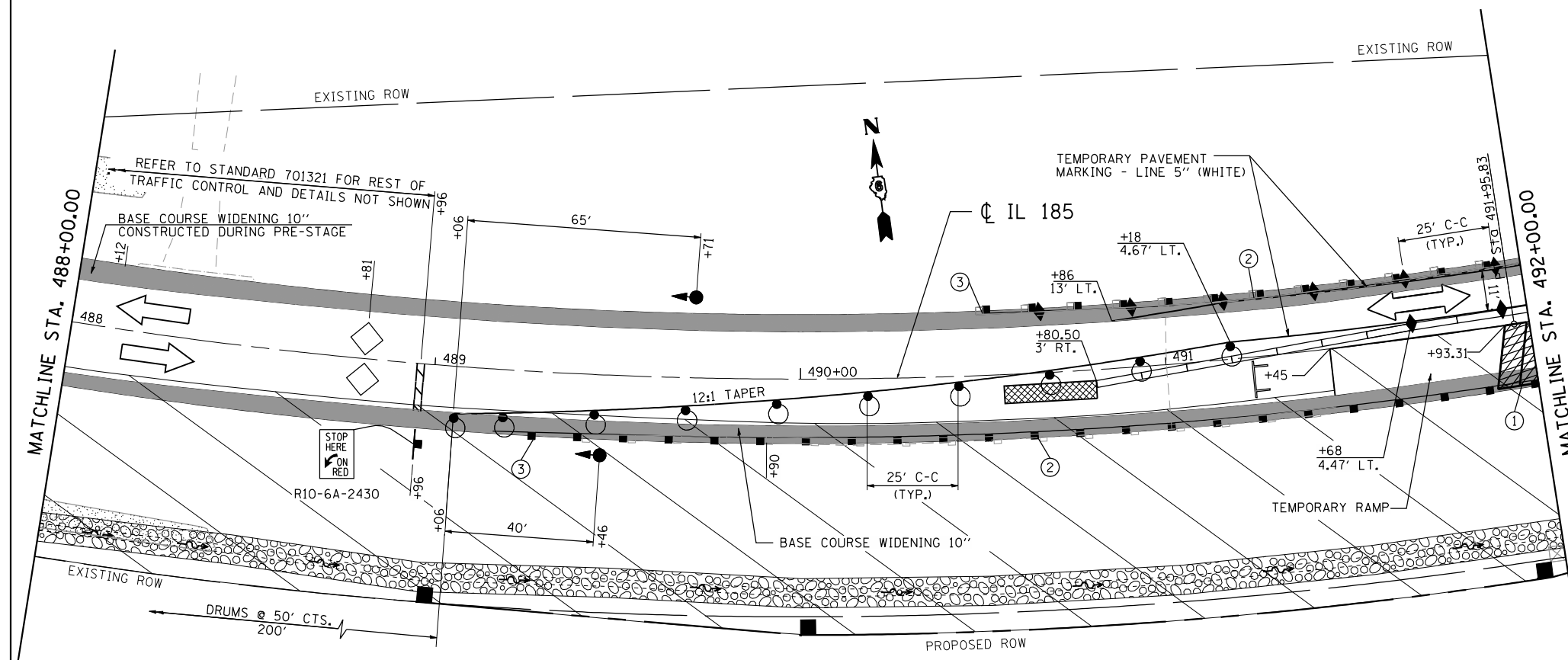


- ① TEMPORARY TRAFFIC BARRIER TERMINAL, TYPE 6
- ② TEMPORARY STEEL PLATE BEAM GUARDRAIL, TYPE A
- ③ TEMPORARY TRAFFIC BARRIER TERMINAL, TYPE 1, SPECIAL (TANGENT)
- ④ STEEL PLATE BEAM GUARDRAIL, (SHORT RADIUS) WITH END SECTION
- ⑤ TRAFFIC BARRIER TERMINAL, TYPE 1, SPECIAL (TANGENT)

NOTE:
DETECTOR AND SIGNALS SHOULD BE PROVIDED FOR ALL PRIVATE ENTRANCES SHOWN AND THE PHASING AS DIRECTED BY DISTRICT 6 BUREAU OF OPERATIONS.

SYMBOLS

- WORK AREA
- SIGN
- TYPE III BARRICADE
- TRAFFIC SIGNAL
- DETECTOR LOOPS
- TEMPORARY IMPACT ATTENUATOR
- STRUCTURE REMOVAL
- DRUM WITH STEADY BURNING BI-DIRECTIONAL LIGHT
- TEMPORARY CONCRETE BARRIER
- DOUBLE VERTICAL PANEL
- CRYSTAL, BI-DIRECTIONAL BARRIER WALL / GUARDRAIL MARKER
- BASE COURSE WIDENING 10"
- PAVEMENT REMOVAL
- TEMPORARY PAVEMENT MARKING-LINE 24" (WHITE)



USER NAME = gjameson	DESIGNED -	REVISD -
FILE NAME = D672D08-SN0680027-SHT-CHECKED.dgn	CHECKED -	REVISD -
PLOT SCALE = 40.0000' / IN.	DRAWN -	REVISD -
PLOT DATE = 10/15/2015	CHECKED -	REVISD -

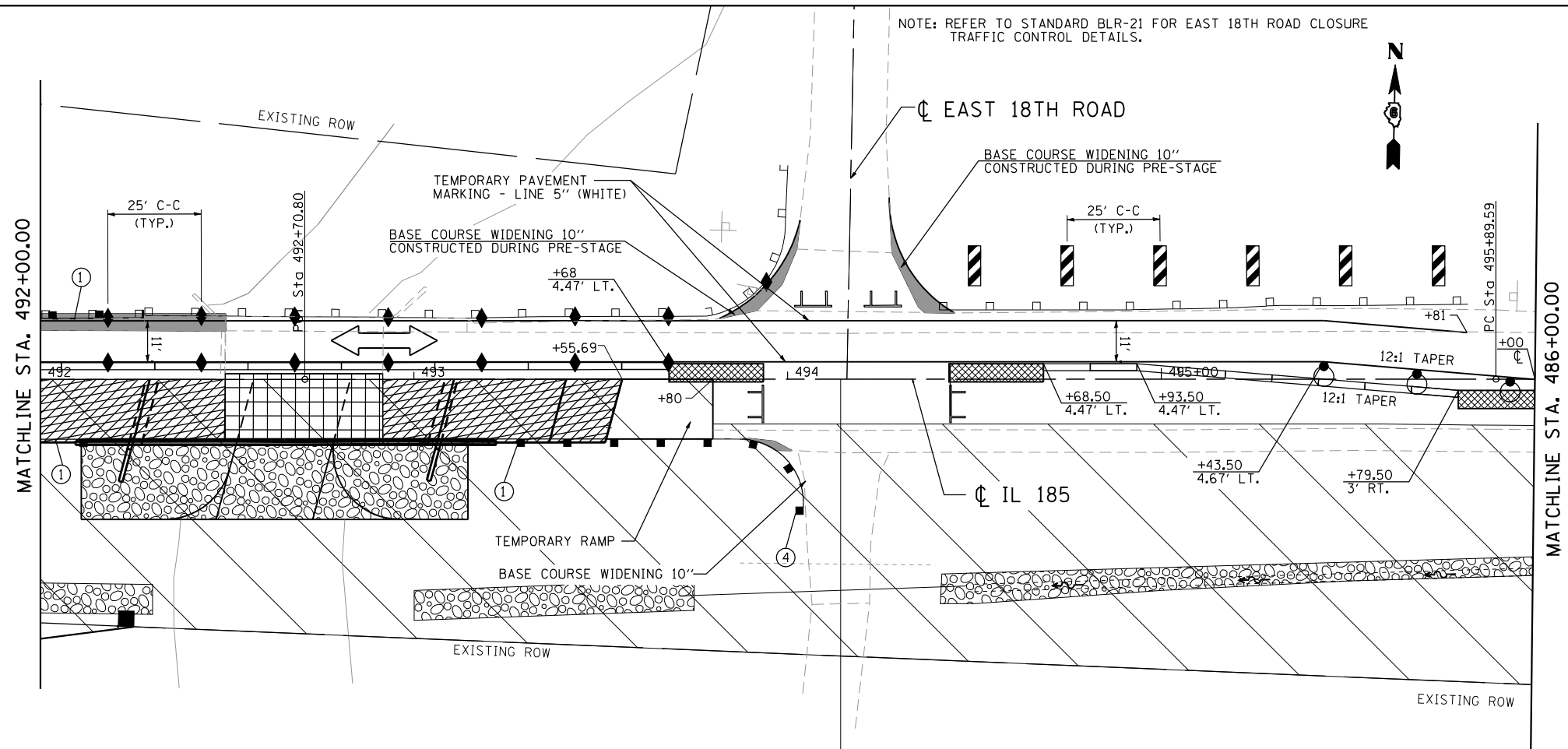
**STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION**

**TRAFFIC CONTROL PLAN - STAGE I
IL 185 OVER BAYOU CREEK**

SCALE: 1" = 20' SHEET NO. 1 OF 2 SHEETS STA. 485+60.00 TO STA. 492+00.00

F.A. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
777	10B-2, 405B-1	MONTGOMERY	121	34
			CONTRACT NO. 72D08	
ILLINOIS FED. AID PROJECT				

NOTE: REFER TO STANDARD BLR-21 FOR EAST 18TH ROAD CLOSURE TRAFFIC CONTROL DETAILS.

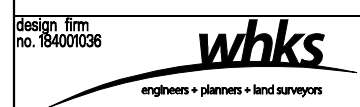
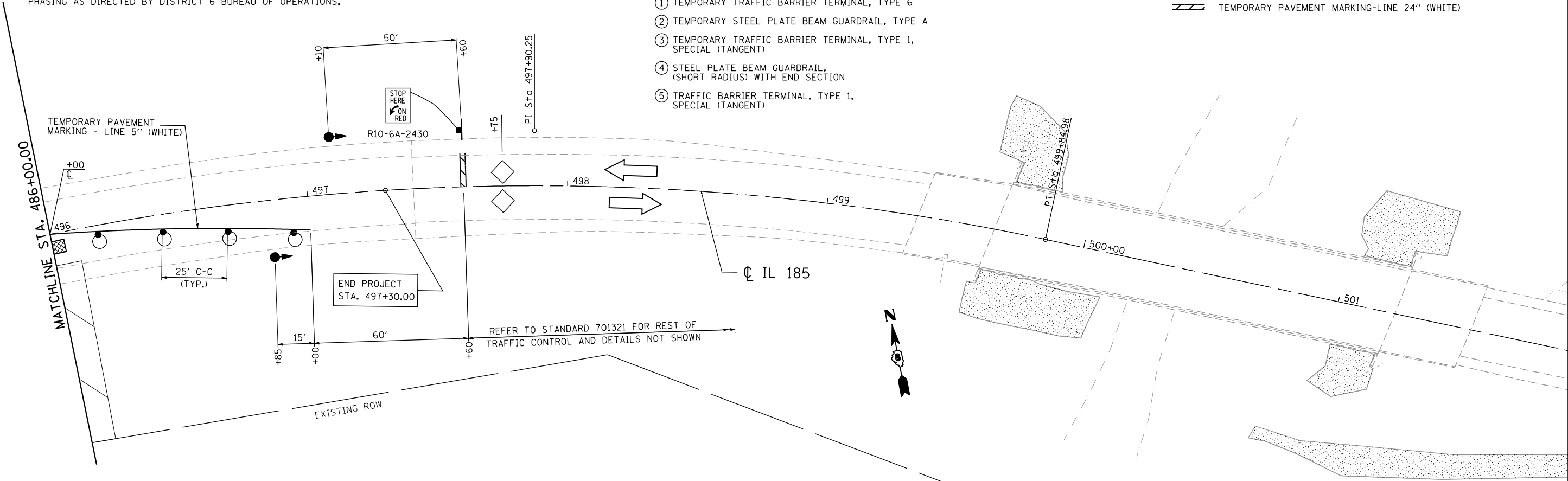


SYMBOLS

- WORK AREA
- SIGN
- TYPE III BARRICADE
- TRAFFIC SIGNAL
- DETECTOR LOOPS
- TEMPORARY IMPACT ATTENUATOR
- STRUCTURE REMOVAL
- DRUM WITH STEADY BURNING BI-DIRECTIONAL LIGHT
- TEMPORARY CONCRETE BARRIER
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- BASE COURSE WIDENING 10"
- PAVEMENT REMOVAL
- TEMPORARY PAVEMENT MARKING-LINE 24" (WHITE)

NOTE: DETECTOR AND SIGNALS SHOULD BE PROVIDED FOR ALL PRIVATE ENTRANCES SHOWN AND THE PHASING AS DIRECTED BY DISTRICT 6 BUREAU OF OPERATIONS.

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FILE NAME = D672D08-SN0680027-SHT-CHECKED.dgn	CHECKED -	REVISED
PLOT SCALE = 40.0000' / IN.	DRAWN -	REVISED
PLOT DATE = 10/15/2015	CHECKED -	REVISED

**STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION**

**TRAFFIC CONTROL PLAN - STAGE I
IL 185 OVER BAYOU CREEK**

SCALE: 1" = 20' SHEET NO. 2 OF 2 SHEETS STA. 492+00.00 TO STA. 479+30.00

F.A. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
777	10B-2, 405B-1	MONTGOMERY	121	35
CONTRACT NO. 72D08				

ILLINOIS FED. AID PROJECT

SUGGESTED SEQUENCE OF CONSTRUCTION


STAGE II CONSTRUCTION:

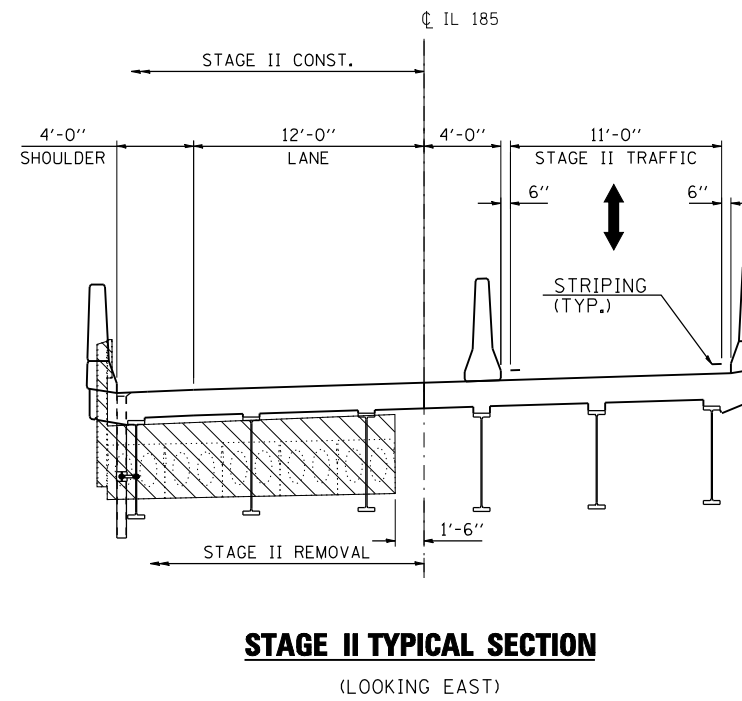
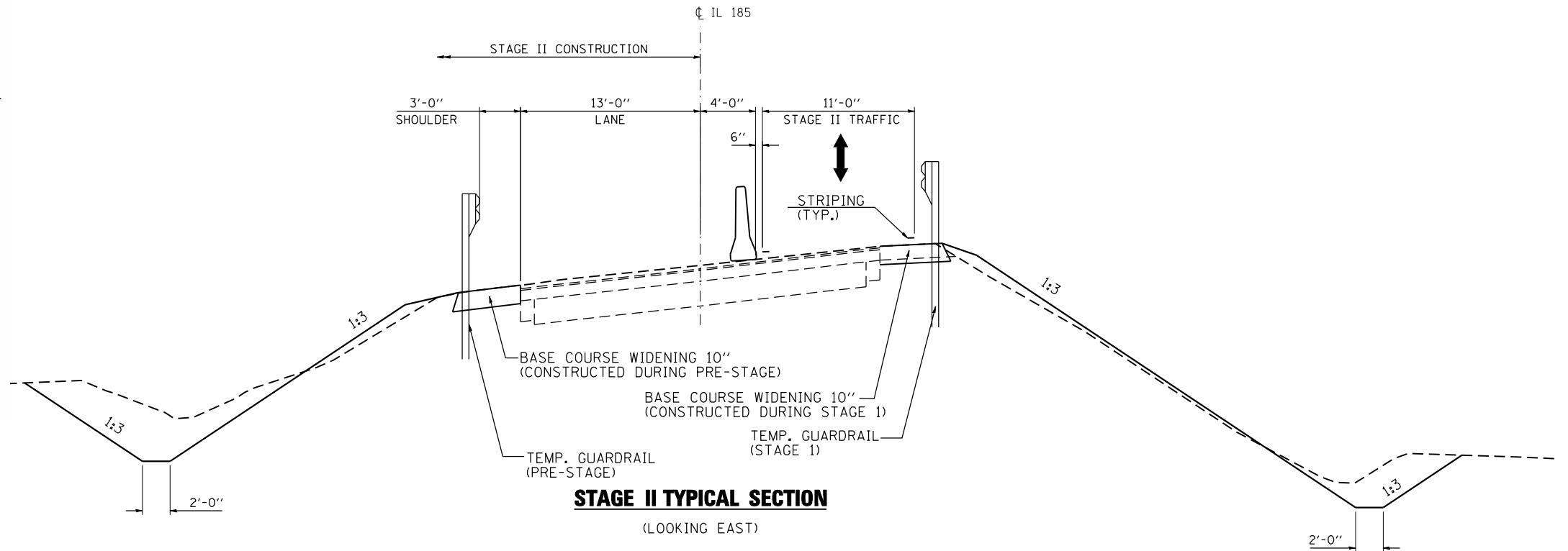
1. RELOCATE TEMPORARY CONCRETE BARRIERS, TEMPORARY IMPACT ATTENUATORS AND TEMPORARY BRIDGE TRAFFIC SIGNALS AS SHOWN ON THE PLANS. USE HIGHWAY STANDARD 701321.
2. REMOVE CONFLICTING STRIPING AND PLACE TEMPORARY STRIPING AS SHOWN ON THE PLANS.
3. SHIFT TRAFFIC TO STAGE II LANE.
4. REMOVE THE NORTH HALF OF THE EXISTING BRIDGE.
5. REMOVE EXISTING PIPE CULVERTS ALONG THE NORTH SIDE OF IL 185.
6. CONSTRUCT THE NORTH HALF OF THE PROPOSED BRIDGE, CONNECTOR PAVEMENT AND EARTHWORK.
7. CONSTRUCT WIDENING, TEMPORARY RAMPS, AGGREGATE SHOULDERS, PIPE CULVERTS AND INSTALL OR ADJUST TEMPORARY GUARDRAIL ALONG THE NORTH SIDE OF IL 185.

STAGE III CONSTRUCTION:

1. REMOVE TEMPORARY CONCRETE BARRIERS, TEMPORARY IMPACT ATTENUATORS, TEMPORARY TRAFFIC SIGNALS AND WIDTH RESTRICTION SIGNING.
2. REMOVE CONFLICTING STRIPING AND PLACE TEMPORARY STRIPING.
3. SHIFT TRAFFIC TO THE EXISTING LANES.
4. REMOVE TEMPORARY RAMPS, MILL AND CONSTRUCT THE HMA BINDER AND SURFACE COURSES USING HIGHWAY STANDARD 701306.
5. CONSTRUCT HMA AND AGGREGATE SHOULDERS AND PERMANENT GUARDRAIL USING HIGHWAY STANDARD 701326.
6. FINISH EARTHWORK AND GRADING AND SEED DISTURBED AREAS.
7. PLACE FINAL STRIPING AND CLEANUP.

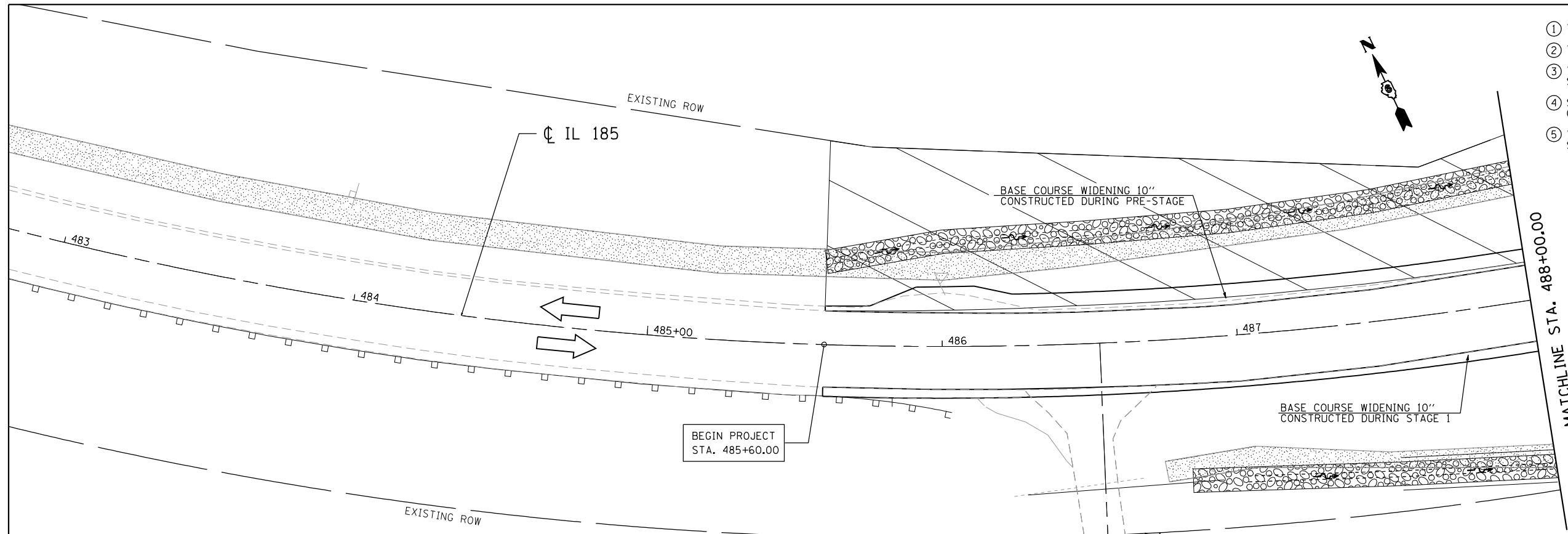
LEGEND

 TO BE REMOVED



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F.A. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
777	10B-2, 405B-1	MONTGOMERY	121	36
CONTRACT NO. 72D08				
ILLINOIS FED. AID PROJECT				

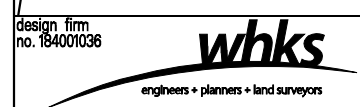
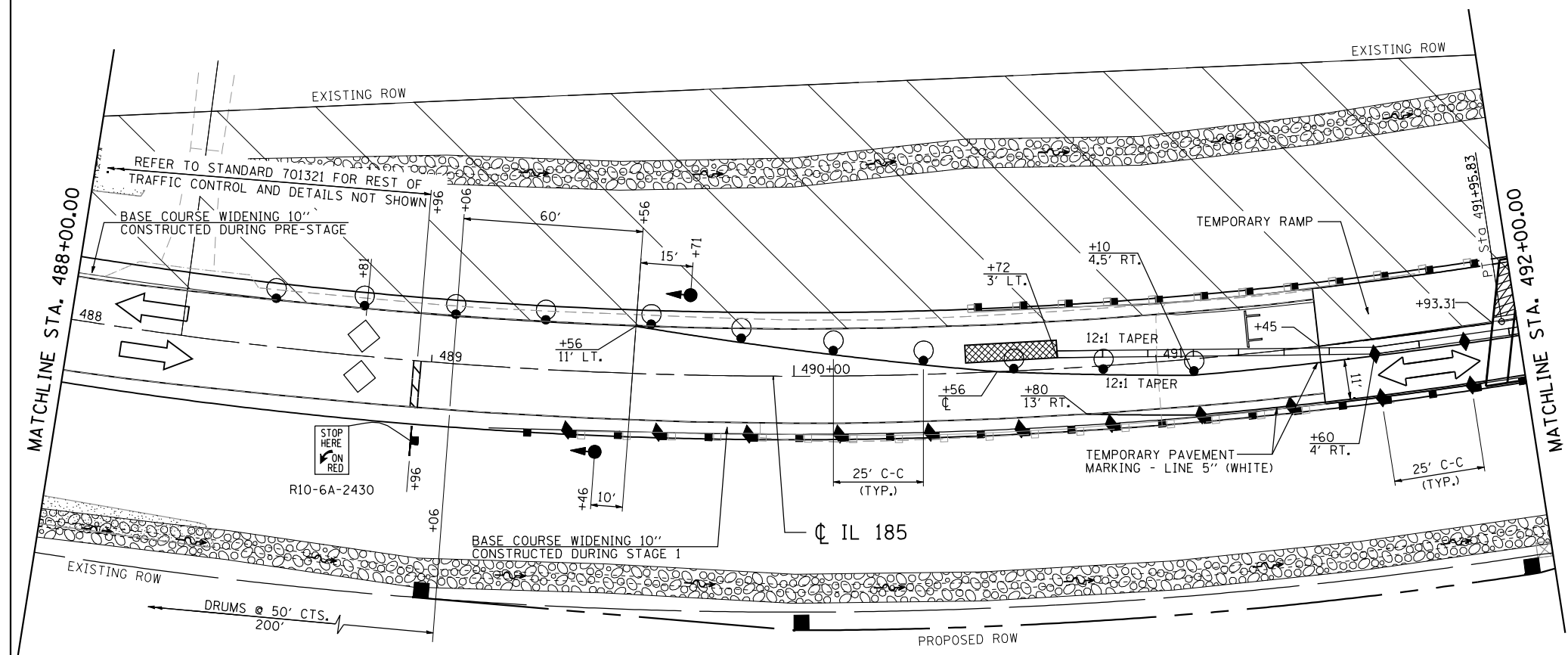


- ① TEMPORARY TRAFFIC BARRIER TERMINAL, TYPE 6
- ② TEMPORARY STEEL PLATE BEAM GUARDRAIL, TYPE A
- ③ TEMPORARY TRAFFIC BARRIER TERMINAL, TYPE 1, SPECIAL (TANGENT)
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- ⑤ TRAFFIC BARRIER TERMINAL, TYPE 1, SPECIAL (TANGENT)

NOTE:
DETECTOR AND SIGNALS SHOULD BE PROVIDED FOR ALL PRIVATE ENTRANCES SHOWN AND THE PHASING AS DIRECTED BY DISTRICT 6 BUREAU OF OPERATIONS.

SYMBOLS

- WORK AREA
- SIGN
- TYPE III BARRICADE
- TRAFFIC SIGNAL
- DETECTOR LOOPS
- TEMPORARY IMPACT ATTENUATOR
- STRUCTURE REMOVAL
- DRUM WITH STEADY BURNING BI-DIRECTIONAL LIGHT
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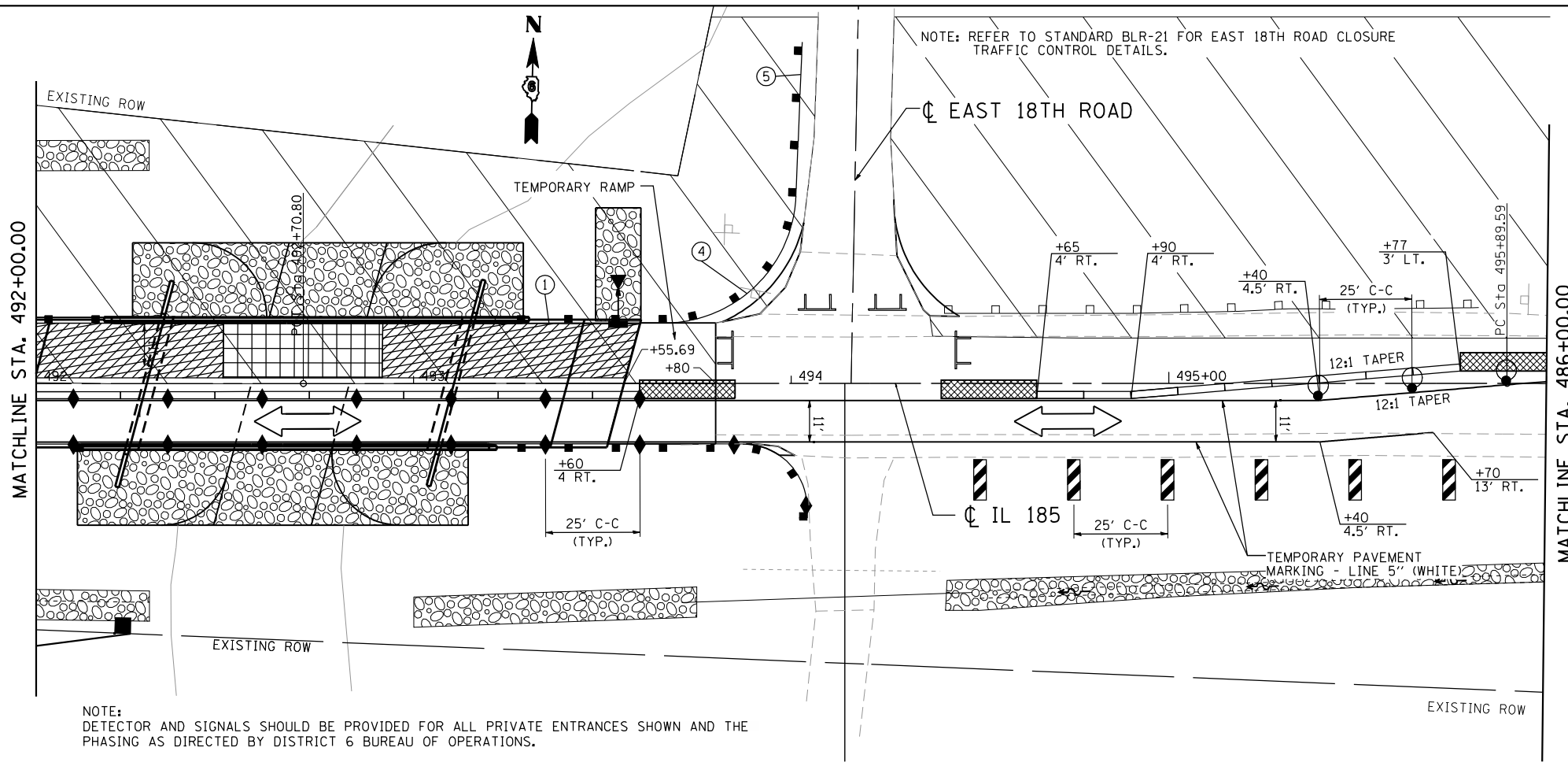
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FILE NAME = D672D08-SN0680027-SHT-SMCKED01.dgn	CHECKED -	REVISED
PLOT SCALE = 40.0000' / IN.	DRAWN -	REVISED
PLOT DATE = 10/15/2015	CHECKED -	REVISED

**STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION**

**TRAFFIC CONTROL PLAN - STAGE II
IL 185 OVER BAYOU CREEK**

SCALE: 1" = 20' SHEET NO. 1 OF 2 SHEETS STA. 485+60.00 TO STA. 492+00.00

F.A. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
777	10B-2, 405B-1	MONTGOMERY	121	37
CONTRACT NO. 72D08				
ILLINOIS FED. AID PROJECT				

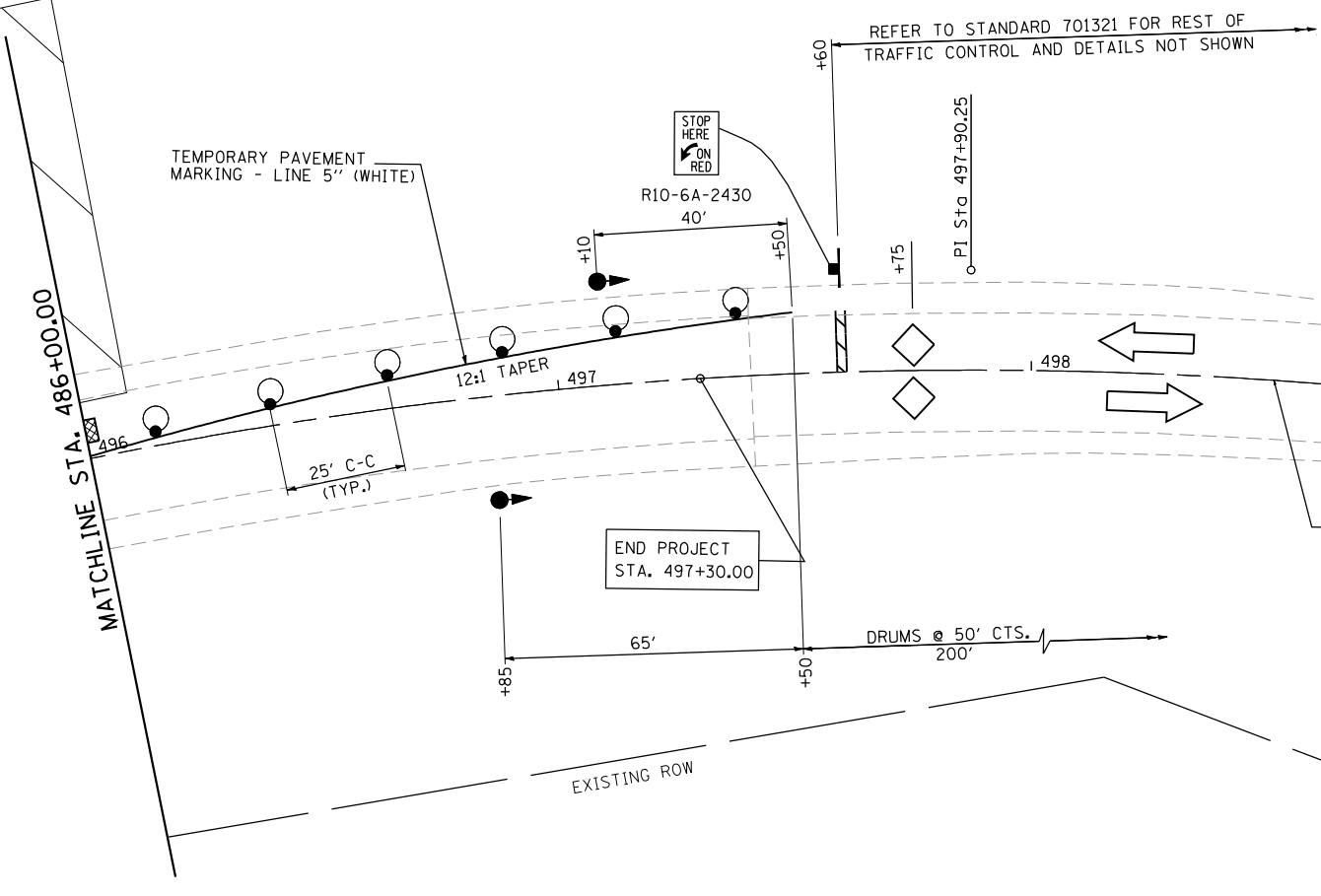
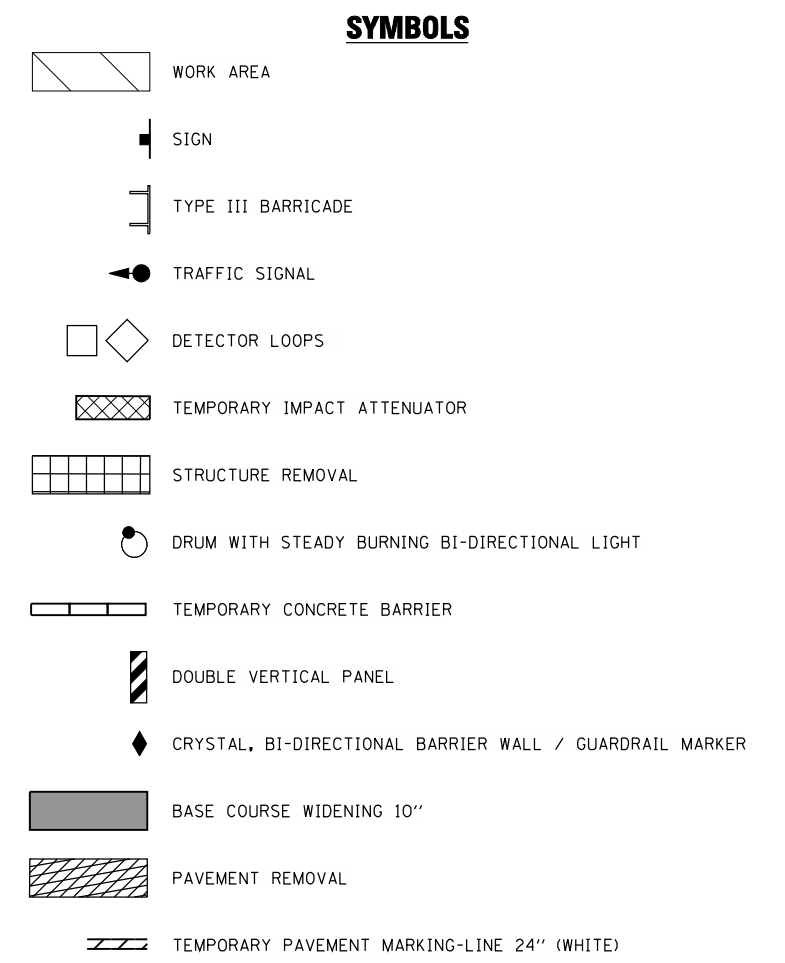


NOTE: REFER TO STANDARD BLR-21 FOR EAST 18TH ROAD CLOSURE TRAFFIC CONTROL DETAILS.

MATCHLINE STA. 492+00.00

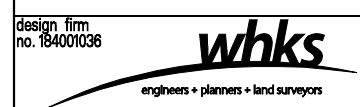
MATCHLINE STA. 486+00.00

NOTE: DETECTOR AND SIGNALS SHOULD BE PROVIDED FOR ALL PRIVATE ENTRANCES SHOWN AND THE PHASING AS DIRECTED BY DISTRICT 6 BUREAU OF OPERATIONS.



REFER TO STANDARD 701321 FOR REST OF TRAFFIC CONTROL AND DETAILS NOT SHOWN

- ① TEMPORARY TRAFFIC BARRIER TERMINAL, TYPE 6
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- ③ TEMPORARY TRAFFIC BARRIER TERMINAL, TYPE 1, SPECIAL (TANGENT)
- ④ STEEL PLATE BEAM GUARDRAIL, (SHORT RADIUS)
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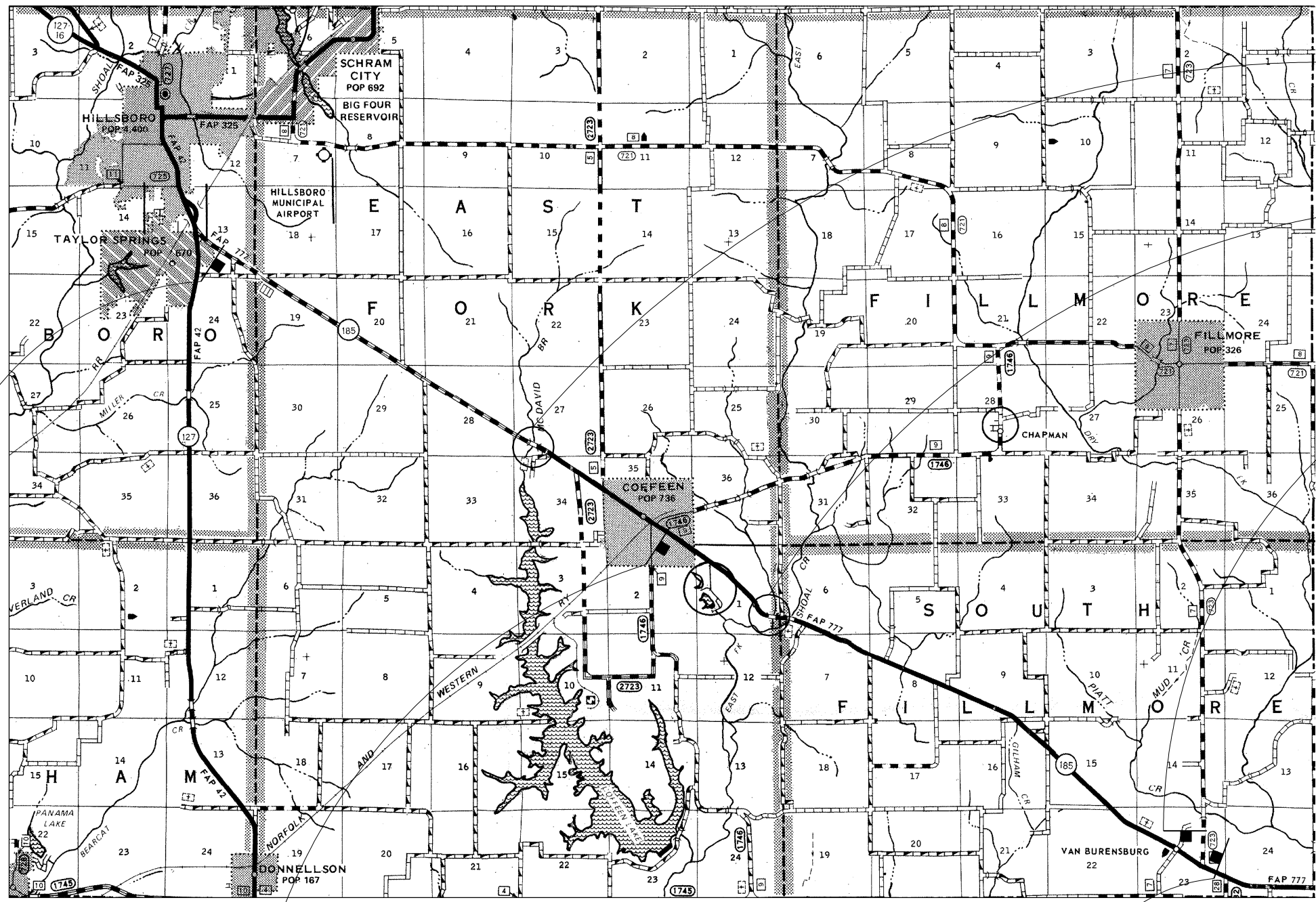
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PLOT DATE = 10/15/2015	CHECKED -	REVISED

**STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION**

**TRAFFIC CONTROL PLAN - STAGE II
IL 185 OVER BAYOU CREEK**

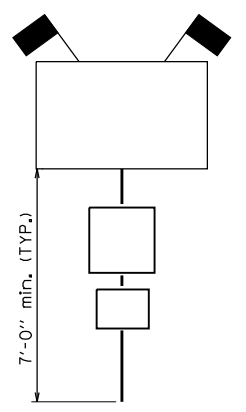
SCALE: 1" = 20' SHEET NO. 2 OF 2 SHEETS STA. 492+00.00 TO STA. 479+30.00

F.A. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
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CONTRACT NO. 72D08				
ILLINOIS FED. AID PROJECT				

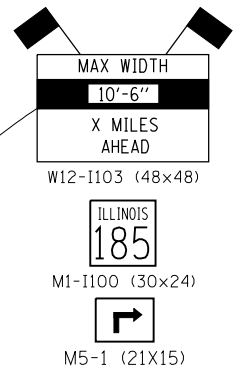
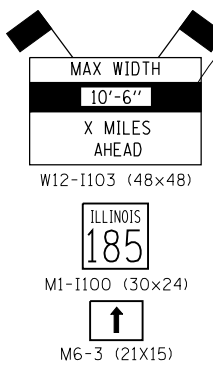


PROJECT LOCATION
IL 185 OVER McDAVID BRANCH

PROJECT LOCATION
IL 185 OVER BAYOU CREEK

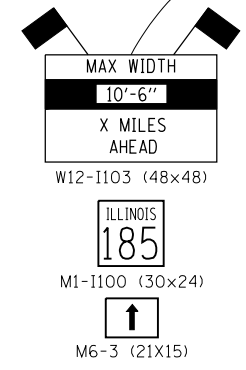
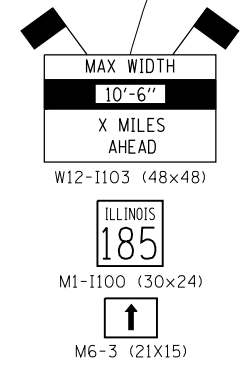


SIGN DETAIL



GENERAL NOTES

1. ALL TRAFFIC CONTROL DEVICES SHALL BE FURNISHED, ERECTED AND MAINTAINED BY THE CONTRACTOR.
2. ALL SIGNS SHALL BE POST MOUNTED. THE CONTRACTOR SHALL FURNISH THE POST AND ERECT THE SIGNS AT THE LOCATIONS DIRECTED BY THE ENGINEER.
3. THE WIDTH SHOWN ON THE W12-I103 SIGN SHALL BE 10'-6" FOR STAGE I, AND STAGE II, OR AS DIRECTED BY THE ENGINEER. ACTUAL WIDTHS TO BE VERIFIED BY ENGINEER AND ADJUSTED FOR STAGE CONSTRUCTION.
4. THE ENGINEER WILL DETERMINE THE "X" MILES AHEAD TO BE PLACED ON EACH SIGN BASED ON LOCATION.
5. THE ABOVE NOTED WORK, INCLUDING SIGNS, POST, HARDWARE AND LABOR SHALL BE INCLUDED IN THE CONTRACT UNIT PRICE, LUMP SUM FOR WIDTH RESTRICTION SIGNING AND NO OTHER COMPENSATION WILL BE ALLOWED.



STORM WATER POLLUTION PREVENTION PLAN

McDavid Branch

Starting Station: Sta. 307+05

Ending Station: Sta. 314+00

Bayou Creek

Starting Station: Sta. 485+60

Ending Station: Sta. 497+30

Route: FAP 777
 Section: 10B-2, 405B-1
 County: Montgomery
 Project No.:
 Contract No.: 72D08
 (Longitude: 888,099.6781 Latitude: 2,509,385.6341)
 (Longitude: 887,690.1471 Latitude: 2,510,187.0605)
 (Longitude: 877,800.7960 Latitude: 2,524,079.3696)
 (Longitude: 887,660.1767 Latitude: 2,525,226.1059)

SITE DESCRIPTION

Description of Construction Activity:

1. The proposed project consists of the removal and replacement of the bridge carrying IL 185 over McDavid Branch, approximately 0.5 miles east of Coffeen and the bridge carrying IL 185 over Bayou Creek approximately 1.0 miles west of Coffeen in Montgomery County. The project will be constructed on the existing alignment and will include reconstruction and resurfacing of approximately 0.38 miles of IL 185.
2. Additional construction activities consist of HMA base course widening, HMA resurfacing, HMA and aggregate shoulders, ditch grading, embankment, topsoil placement, channel grading and other miscellaneous work to complete improvements to the proposed roadways.

Description of Intended Sequence of Major Construction Activities Which Will Disturb Earth and Lead to Possible Erosion for Major Portions of the Construction Site:

1. Tree removal will be completed to clear approximately 0.2 acres of wooded land.
2. Excavation will be completed along the entire length of the project to grade out for proposed roadway ditches and waterways.
3. Embankment will be completed in fill areas to raise the existing ground elevation to meet the proposed roadway foreslopes and backslopes.
4. Drainage structures will be installed before and/or during the construction of the excavation and embankment to allow proper drainage along IL 185.
5. Placement, maintenance, removal and proper clean-up of temporary erosion control items, such as erosion control fence, temporary ditch checks and temporary seeding.
6. Placement of permanent erosion control items, such as riprap ditch lining, erosion control blanket, mulch method II and seeding.
7. Final grading, paving and other miscellaneous items.

Area of Construction Site:

McDavid Branch

The total drainage area entering and including the construction site, at McDavid Branch, is estimated to be approximately 4.8 square miles in which 0.8 acres will be disturbed by excavation, grading or other activities.

Bayou Creek

The total drainage area entering and including the construction site, at Bayou Creek, is estimated to be approximately 5.54 square miles, in which 1.7 acres will be disturbed by excavation, grading or other activities.

Other Reports, Studies and Plans which Aid in the Development of this Storm Water Pollution Prevention Plan as Referenced Documents:

1. Estimated run-off coefficients are contained in the project drainage study which were utilized for proposed placement of the temporary erosion control systems.
2. Information on the soils within the site was obtained from field reviews which were utilized for proposed placement of the temporary erosion control systems.
3. Site maps indicating drainage patterns and approximate slopes were contained in the project design report, USGS drainage maps, project drainage study and project plan documents were all utilized for proposed placement of the temporary erosion control systems.

Drainage Tributaries Receiving Water from this Construction Site:

The receiving waters are McDavid Branch and Bayou Creek. McDavid Branch flows into Coffeen Lake and into the East Fork Shoal Creek. Bayou Creek flows into the East Fork Shoal Creek, then through Shoal Creek and the Kaskaskia River and eventually into the Mississippi River.

This plan has been prepared to comply with the provision of the NPDES Permit Number ILR10 _____ issued by the Illinois Environmental Protection Agency for storm water discharges from construction site activities.

I certify under penalty of law that this document and all attachments were prepared under my direction or supervision in accordance with a system designed to assure that qualified personnel gathered and evaluated the information submitted. Based on my inquiry of the person or persons who manage the system, or those persons directly responsible for gathering the information submitted, is, to the best of my knowledge and belief, true, accurate, and complete. I am aware that there are significant penalties for submitting false information, including the possibility of fine and imprisonment for knowing violations.

Robert L. Dickel
 (Signature)

10/16/15
 (Date)

Region 4 Engineer
 (Title)

Note: The above boxed in area will be filled out by IDOT - Construction after the award of the contract to obtain the required NPDES permit.


The following plan was established and included in these plans to direct the Contractor in the placement of temporary erosion control systems and to provide a storm water pollution prevention plan for compliance under NPDES. The Contractor shall abide to all requirements within this plan as part of the contract.

The purpose of this plan is to prevent / minimize siltation within the construction zone and to eliminate sediments from entering and leaving the construction zone by utilizing proper temporary erosion control systems and providing ground cover within a reasonable time.

Certain items, as shown in this plan and referenced by the legend, shall be placed by the Contractor at the beginning of construction. Other items shall be placed by the Contractor as directed by the Engineer on a case by case situation resulting from the Contractor's sequence of activities, time of the year, and expected weather conditions.

The Contractor shall place permanent erosion control systems and seeding within a reasonable amount of time; therefore, reducing the amount of area being open to the possibility of erosion and reducing the amount of temporary erosion control systems and temporary seeding. The Resident Engineer will determine if temporary erosion control systems shown in the plan can be deleted, the size of the proposed ditch checks, the proper method of installation, and if any additional temporary erosion control systems shall be added which are not included in this plan. The Contractor shall perform all work as directed by the Engineer and as shown in special details and in Standard 280001 of the plans.

All disturbed areas having high potential for erosion, as determined by the Engineer, shall be temporarily seeded or permanently seeded by October 1st of each construction year and shall not be reopened until after the winter shutdown period.

design firm no. 184001036  engineers • planners • land surveyors	USER NAME : g.jameson	DESIGNED -	REVISED	STATE OF ILLINOIS DEPARTMENT OF TRANSPORTATION	STORM WATER POLLUTION PREVENTION PLAN			F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
	FILE NAME : 0672008-5H680026-SH-CHECKED.dgn	DRAWN -	REVISED		SCALE: NTS	SHEET NO. 1 OF 4 SHEETS	STA.	TO STA.	777	10B-2, 405B-1	MONTGOMERY	121
	PLOT SCALE : 40,000' / 1" IN.	CHECKED -	REVISED					CONTRACT NO. 72D08				
	PLOT DATE : 10/15/2015							ILLINOIS/FED. AID PROJECT				

CONTROLS - EROSION CONTROLS AND SEDIMENT CONTROLS

Description of Stabilization Practices at the Beginning of Construction:

1. The area between the existing and proposed right-of-way/temporary easement boundaries and limits of the project will be improved and managed for the purposes of controlling erosion within the area, reducing water flow by temporary diversion and minimizing siltation into the construction zone, and establishing vegetative cover which will become permanent vegetation and act as an erosion barrier. Work at the beginning of construction will consist of the following:
 - (a) Areas of existing vegetation (woods and grasslands) outside the proposed construction slope limits shall be identified for preserving and shall be protected from mowing, brush cutting, tree removal and other activities which would be detrimental to their maintenance and development.
 - (b) Dead, diseased, or unsuitable vegetation within the site shall be removed as directed by the Engineer, along with required tree removal.
 - (c) As soon as reasonable access is available (such as trees cleared) to all locations where water drains away from the project, sediment basins, riprap ditch checks, temporary ditch checks, and/or erosion control fence shall be installed as called out in this plan and directed by the Engineer.
 - (d) Bare and sparsely vegetated ground in highly erodible areas as determined by the Engineer shall be temporarily seeded at the beginning of construction where no construction activities are immediately expected as stated in the special provision "Temporary Erosion and Sediment Control".
 - (e) Immediately after tree removal is completed in certain areas which are highly erodible areas as determined by the Engineer, the areas shall be temporarily seeded where no construction activities are immediately expected as stated in the special provision "Temporary Erosion and Sediment Control".
 - (f) At locations where a significant amount of water drains into the construction zone from outside areas (adjacent landowners), erosion control fence, temporary ditch checks, or riprap ditch checks will be utilized to locally divert water, reduce flow rates, and collect outside siltation inside the right-of-way line. Erosion control items will not be allowed to be installed to cause flooding to upstream private property which could cause crop damages or other undesirable conditions.
2. Establishment of these temporary erosion control measures will have additional benefits to the project. Desirable grass seed will become established in these areas and will spread seeds onto the construction site until permanent seeding/mowing and overseeding can be complete.
3. A third benefit of these filter areas is that they will begin to provide a screen and buffer. They will help protect the construction site from winds and excess sun and mitigate construction noise and dust.

Description of Stabilization Practices During Construction:

1. During roadway construction, areas outside the construction slope limits as outlined previous herein shall be protected from damaging effects of construction. The Contractor shall not use this area for staging (except as designated on the plans or directed by the Engineer), parking of vehicles or construction equipment, storage of materials, or other construction related activities.
 - (a) Within the construction zone, critical areas which have high flows of water as determined by the Engineer shall remain undisturbed until full scale construction is underway to prevent unnecessary soil erosion.
 - (b) Top soil and earth stockpiles shall be temporarily seeded if they are to remain unused for more than fourteen days.
 - (c) As the Contractor constructs a portion of roadway in a fill section, he/she shall follow the following steps as directed by the Engineer:
 - i. Place temporary erosion control systems at locations where water leaves and enters the construction zone
 - ii. Temporary seed highly erodible areas outside the construction slope limits
 - iii. Construct roadside ditches and provide temporary erosion control systems
 - iv. Temporary divert water around proposed culvert locations
 - v. Build necessary embankment at culvert locations and then excavate and place culvert
 - vi. Continue building up the embankment to the proposed grade while at the same time place permanent erosion control such as riprap ditch lining and conduct final shaping to the slopes
 - (d) The Contractor shall immediately follow major earth moving operations with final grading equipment. After the major earth spread operation has moved to a new location, final grading shall be completed within fourteen days. If grading is not completed within fourteen days, all major earth moving operations will be stopped, as directed by the Engineer, until disturbed areas are final graded and seeded.
 - (e) Excavated areas and embankments shall be permanently seeded when final graded. If not, they shall be temporarily seeded as stated in the special provision "Temporary Erosion and Sediment Control".

(f) Construction equipment shall be stored and fueled only at designated locations. All necessary measures shall be taken to contain any fuel or pollution run-off in compliance with EPA water quality regulations. Leaking equipment or supplies shall be immediately repaired or removed from the site.

(g) Qualified Personnel shall inspect the project at least every seven days and within 24 hours of the end of a storm that is 0.5 inch or greater as noted in BDE 2342.

(h) Sediment collected during construction by the various temporary erosion control systems shall be disposed of on the site on a regular basis as directed by the Engineer.

(i) The temporary erosion control systems shall be removed as directed by the Engineer after use is no longer needed or no longer functioning. The costs of this removal shall be included in the unit bid price for the various temporary erosion control pay items. No additional compensation will be allowed.

Description of Structural Practices After Final Grading:

1. Temporary erosion control systems shall be left in place with proper maintenance until permanent erosion control is in place and working properly and all proposed turf areas seeded and established with a proper stand.
2. Once permanent erosion control systems as proposed in the plans are functional and established, temporary items shall be removed, cleaned up, and disturbed turf reseeded. Temporary riprap ditch checks will be allowed to remain in place where approved by the Engineer.

Maintenance after Construction:

1. Construction is complete after acceptance is received at the final inspection.
2. Areas will be inspected on a regular basis by IDOT District 6 Bureau of Operations.
3. Maintenance crews will perform regular mowings to aid in keeping weeds down and establishing a good roadside seed stand.
4. Maintenance crews will also aid in any ditch lining maintenance or in any drainage problems.
5. All maintenance will be conducted at times when weather conditions will not cause site damage.

DOCUMENTATION

1. A report summarizing the scope of the inspection, name(s) and qualifications of personnel making the inspection, date(s) of the inspection, major observations relating to the implementation of this storm water pollution prevention plan, and actions taken in accordance with Section 4.b. shall be made and retained as part of the plan for at least three years after the date of inspection. The report shall be signed in accordance with part VI.G of the general permit.
2. If any violation of the provisions of this plan is identified during the conduct of the construction work covered by this plan, the Resident Engineer or Resident Technician shall complete and file an "Incident of Noncompliance (ION)" report for the identified violation. The Resident Engineer or Resident Technician shall use forms provided by the Illinois Environmental Protection Agency and shall include specific information on the noncompliance, actions which were taken to prevent any further causes of noncompliance, and a statement detailing any environmental impact which may have resulted from the noncompliance. All reports of noncompliance shall be signed by a responsible authority in accordance with Part VI.G. of the general permit. The report of noncompliance shall be mailed to the following address:

Illinois Environmental Protection Agency
 Division of Water Pollution Control
 2200 Churchill Road, P.O. Box 19276
 Springfield, IL 62794-9276
 Attn: Compliance Assurance Section



USER NAME = gjameson	DESIGNED -	REVISED
FILE NAME = D672D08-SN0680026-SHT-CHECKED.rvt.dgn	CHECKED	REVISED
PLOT SCALE = 40.000' / IN.	DRAWN -	REVISED
PLOT DATE = 10/15/2015	CHECKED -	REVISED

**STATE OF ILLINOIS
 DEPARTMENT OF TRANSPORTATION**

**STORM WATER POLLUTION
 PREVENTION PLAN**

SCALE: NTS SHEET NO. 2 OF 4 SHEETS STA. TO STA.

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
777	10B-2, 405B-1	MONTGOMERY	121	41
CONTRACT NO. 72D08				
ILLINOIS FED. AID PROJECT				

CONTRACTOR CERTIFICATION STATEMENT

This certification statement is part of the Storm Water Pollution Plan for the project described below in accordance with NPDES Permit No. ILR10 _____, issued by the Illinois Environmental Protection Agency on _____.

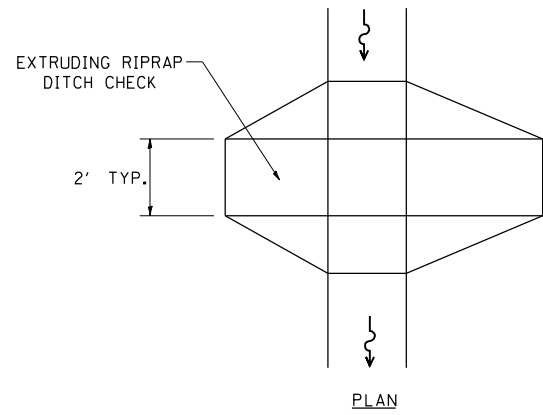
Route: _____ Marked: _____
 Section: _____ Project No.: _____
 County: _____ Contract No.: _____

I certify under penalty of law that I understand the terms of the general National Pollutant Discharge Elimination System (NPDES) permit that authorizes the storm water discharges associated with industrial activity from the construction site identified as part of this certification.

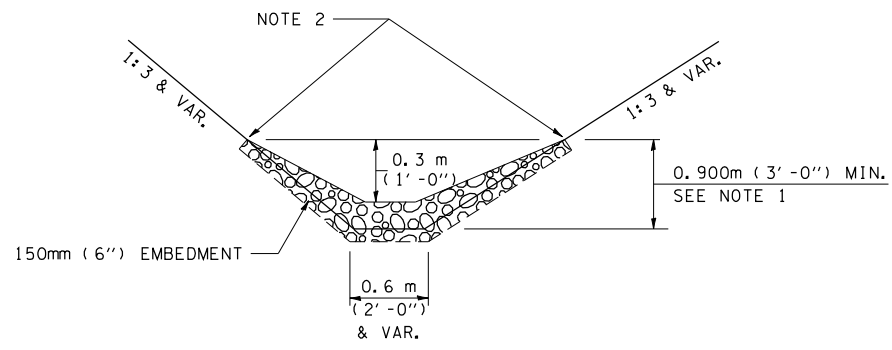
In addition, I have read and understand all of the information and requirements stated in the SWPPP for the above mentioned project; I have received copies of all appropriate maintenance procedures; and, I have provided all documentation required to be in compliance with the Permit ILR10 and SWPPP and will provide timely updates to these documents as necessary.

Signature _____ Date _____
 Title _____
 Name of Firm _____ Contractor
 Street Address _____ Subcontractor
 City, State, Zip _____
 Phone Number _____

Note: The above boxed in area shall be filled out by the Contractor after the award of the contract to obtain the required NPDES Permit from IEPA. This is a requirement for this contract.



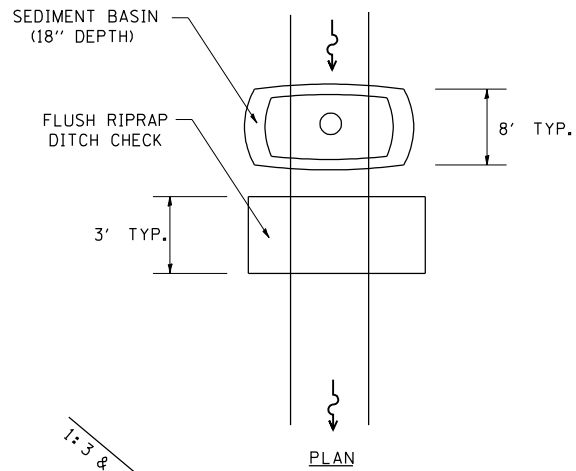
PLAN



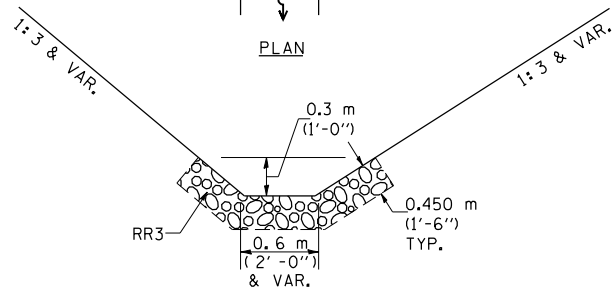
ELEVATION

OPTION 1

(EXTRUDING DITCH CHECK)
RECOMMENDED FOR AREAS
W/ RIPRAP DITCH LINING



PLAN



ELEVATION

OPTION 2

(FLUSH DITCH CHECK)
RECOMMENDED FOR AREAS
W/O RIPRAP DITCH LINING

STONE DUMPED RIPRAP DITCH CHECK

OPTIONS 1 & 2 OR
AS DIRECTED BY THE ENGINEER

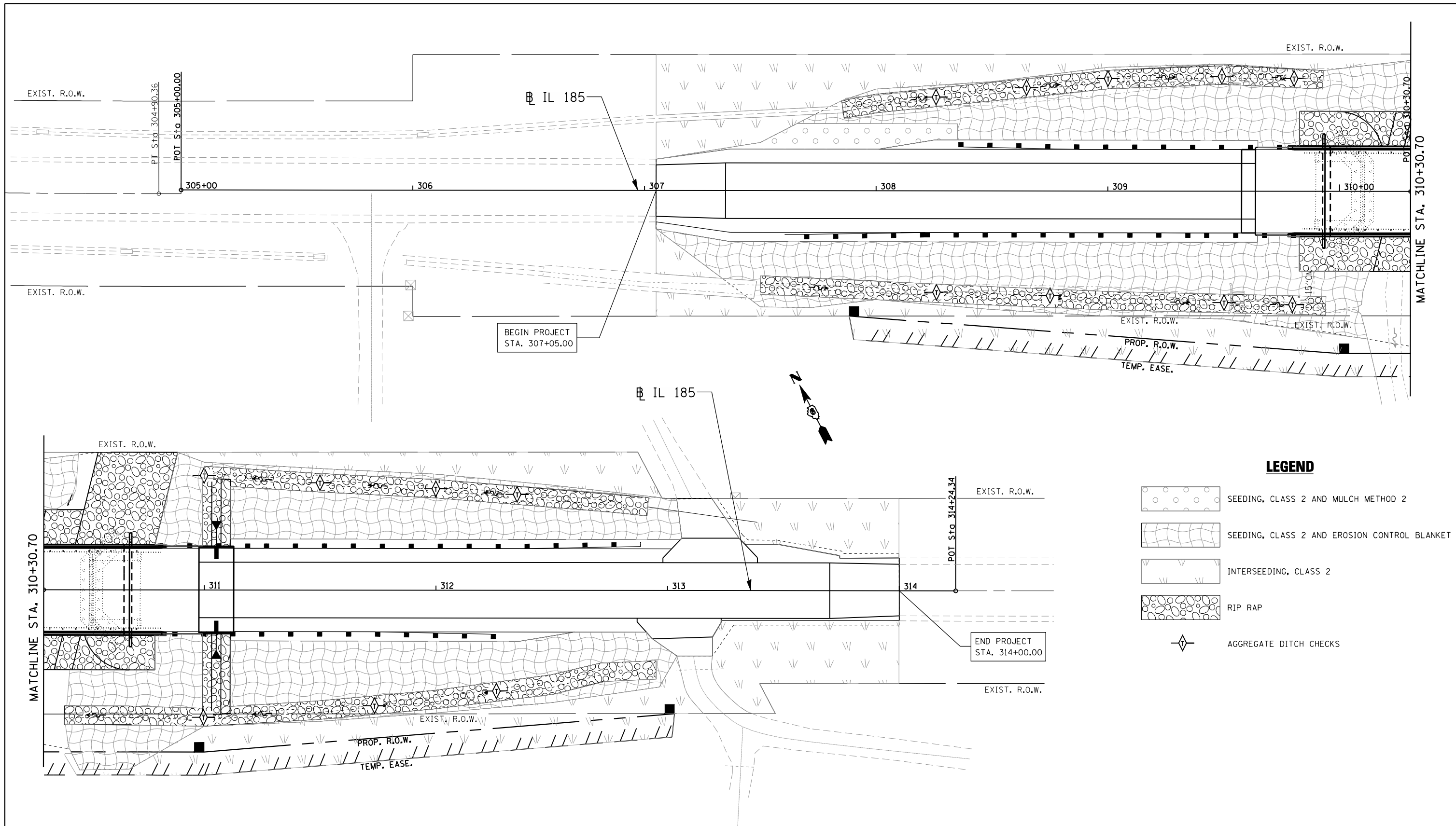
NOTE 1: RIPRAP SHALL EXTEND FAR ENOUGH UP THE SLOPES TO ALLOW 0.3m (1') OVERTOPPING TO AVOID ERODING AROUND THE EDGES OF THE RIPRAP.

NOTE 2: ENDS SHALL BE TIED INTO SLOPES.

LEGEND FOR STORM WATER POLLUTION PREVENTION PLAN

ITEM	SYMBOL
AGGREGATE DITCH CHECKS	
INLET PIPE PROTECTION	
PERIMETER EROSION BARRIER	
SEDIMENT BASINS	
EARTH EXCAVATION FOR EROSION CONTROL AGGREGATE (EROSION CONTROL)	
PRESERVE EXISTING TREES, WOODLANDS, AND UNDERSTORY (OUTSIDE CONSTRUCTION LIMITS)	
ITEM PLACED AT BEGINNING OF CONSTRUCTION (Requirement)	* ITEM *
ITEM PLACED AS DIRECTED BY ENGINEER (When required by situation)	ITEM
DIRECTION OF OVERLAND FLOW	

GENERAL NOTES:
All items shall be constructed as shown on this sheet, on Standard 280001, and as directed by the Engineer.



BEGIN PROJECT
STA. 307+05.00

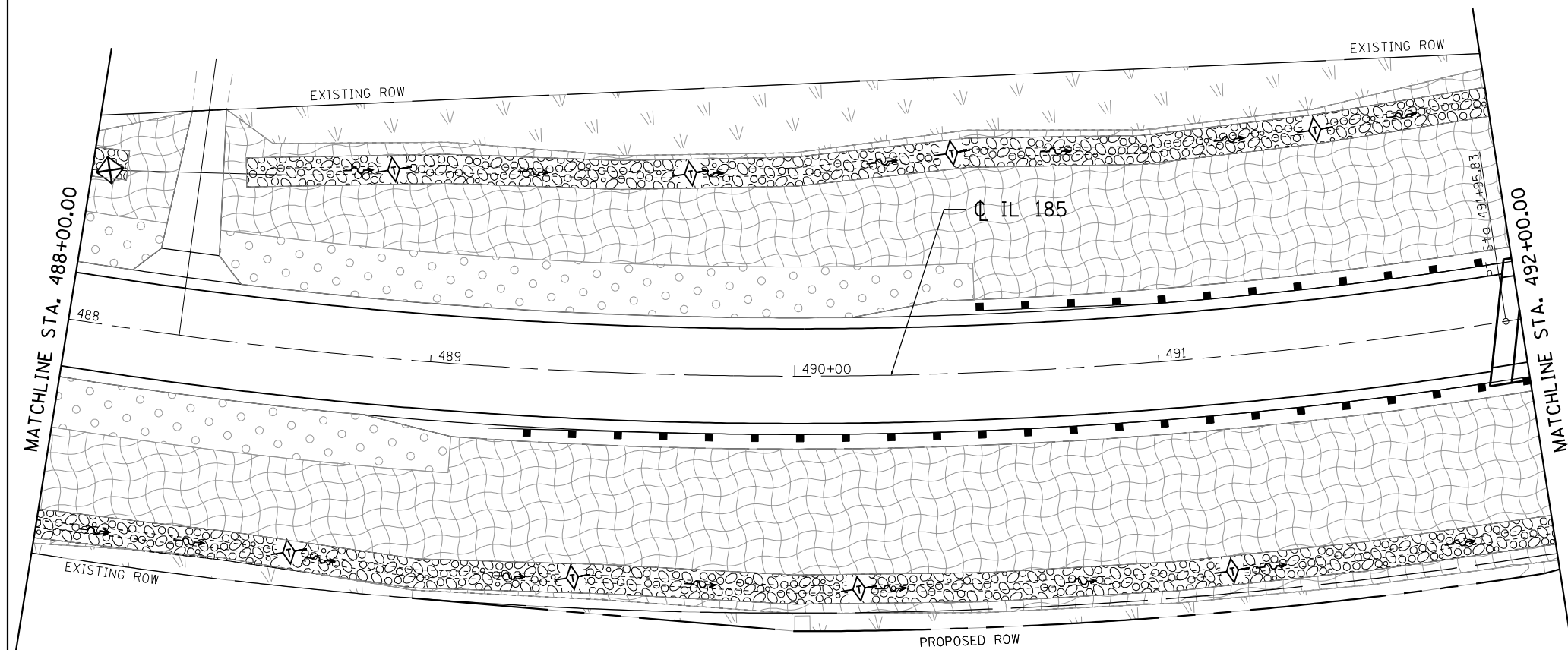
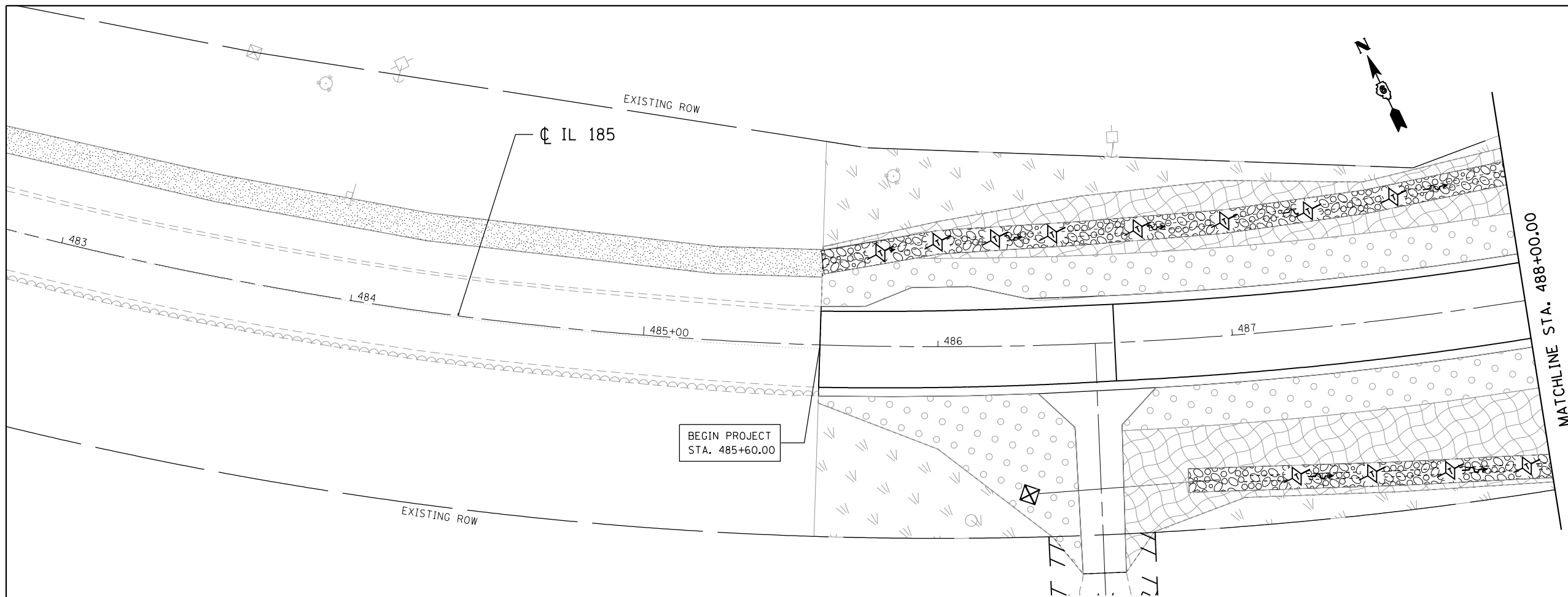
END PROJECT
STA. 314+00.00

LEGEND


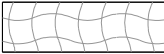




- SEEDING, CLASS 2 AND MULCH METHOD 2
- SEEDING, CLASS 2 AND EROSION CONTROL BLANKET
- INTERSEEDING, CLASS 2
- RIP RAP
- AGGREGATE DITCH CHECKS

USER NAME = gjameson	DESIGNED -	REVISED
FILE NAME = D672D08-SHT-EROSION-20	CHECKED -	REVISED
PLOT SCALE = 40.0000' / IN.	DRAWN -	REVISED
PLOT DATE = 10/15/2015	CHECKED -	REVISED

F.A. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
777	10B-2, 405B-1	MONTGOMERY	121	44
			CONTRACT NO. 72D08	
ILLINOIS FED. AID PROJECT				

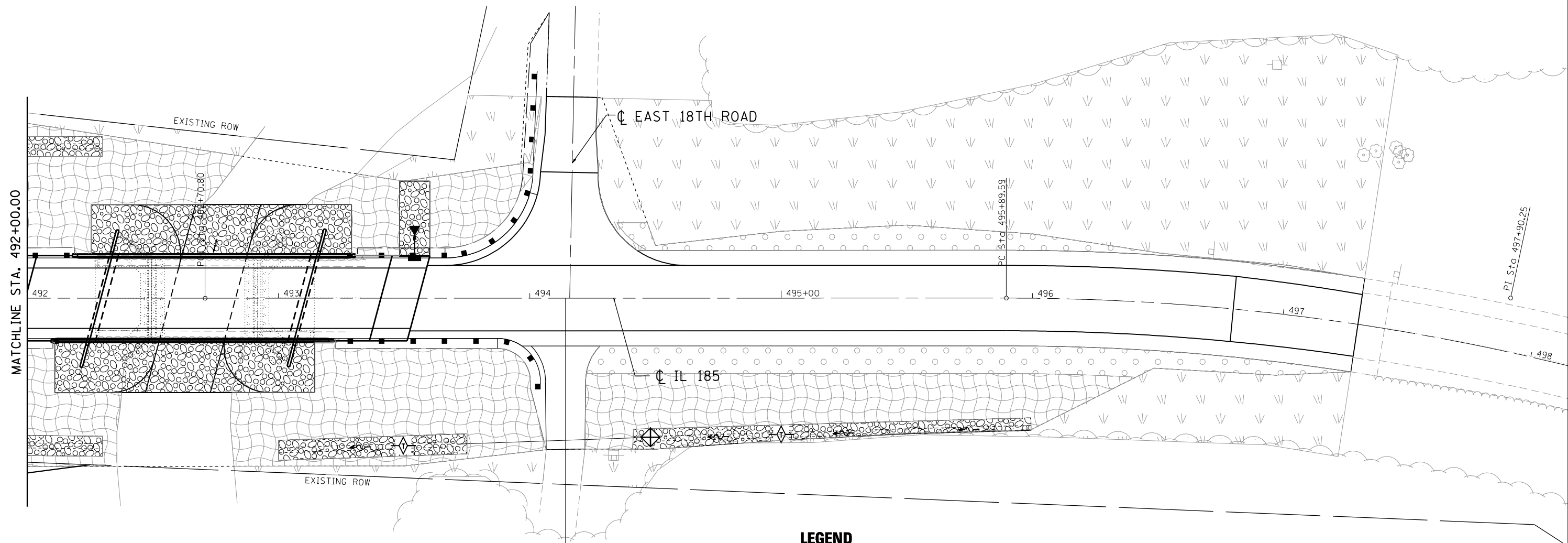


LEGEND

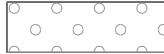





-  SEEDING, CLASS 2 AND MULCH METHOD 2
-  SEEDING, CLASS 2 AND EROSION CONTROL BLANKET
-  INTERSEEDING, CLASS 2
-  RIP RAP
-  AGGREGATE DITCH CHECKS
-  INLET AND PIPE PROTECTION

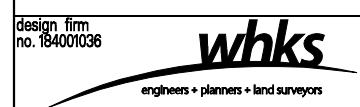
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FILE NAME = D672D08-SHT-EROSION-20	CHECKED -	REVISED -
PLOT SCALE = 40.0000' / IN.	DRAWN -	REVISED -
PLOT DATE = 10/15/2015	CHECKED -	REVISED -

F.A. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
777	10B-2, 405B-1	MONTGOMERY	121	45
CONTRACT NO. 72D08				
ILLINOIS FED. AID PROJECT				



LEGEND

-  SEEDING, CLASS 2 AND MULCH METHOD 2
-  SEEDING, CLASS 2 AND EROSION CONTROL BLANKET
-  INTERSEEDING, CLASS 2
-  RIP RAP
-  AGGREGATE DITCH CHECKS
-  INLET AND PIPE PROTECTION



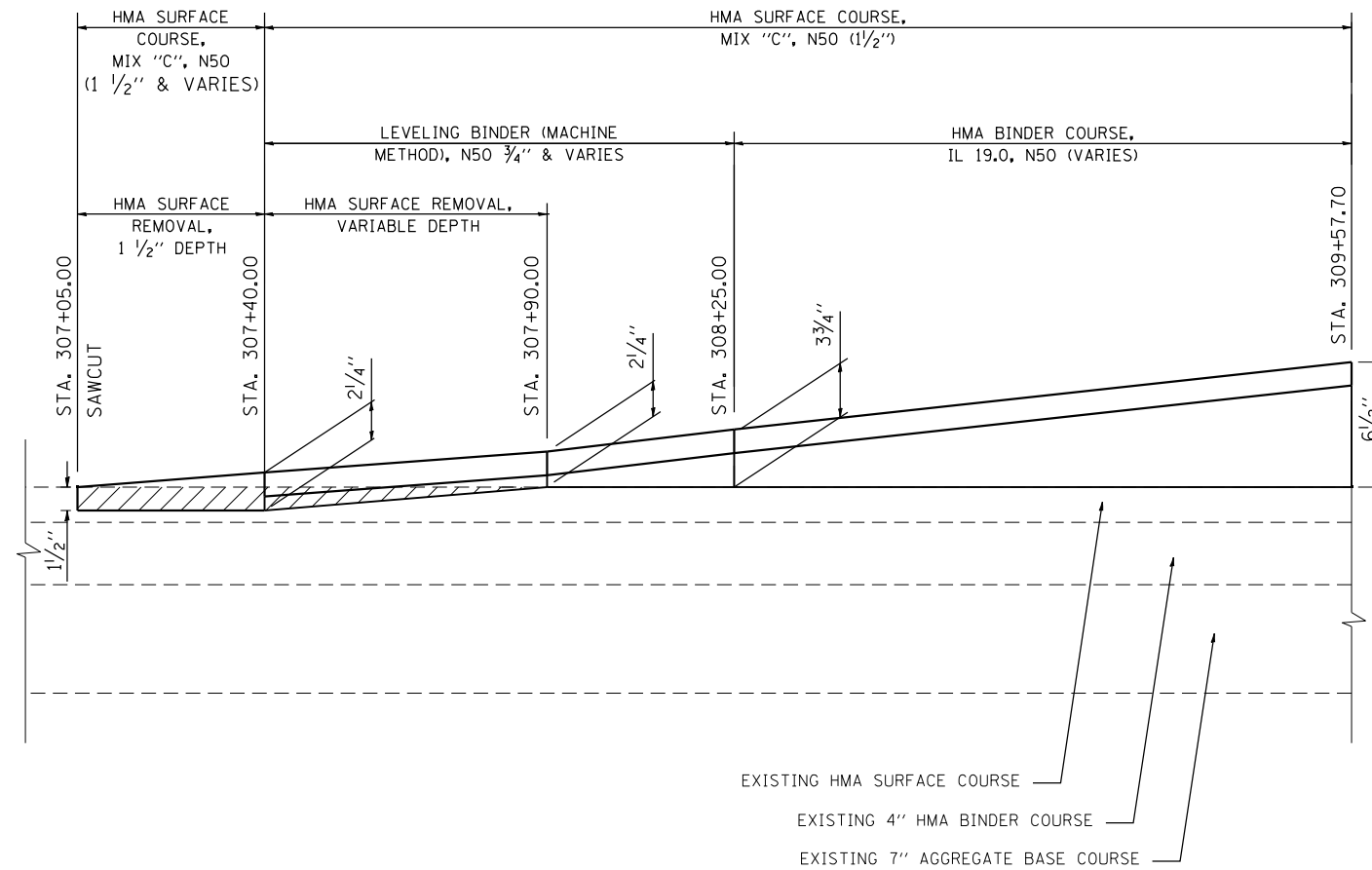
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FILE NAME = D672D08-SHT-EROSION-20	CHECKED -	REVISED
PLOT SCALE = 40.0000' / IN.	DRAWN -	REVISED
PLOT DATE = 10/15/2015	CHECKED -	REVISED

**STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION**

**EROSION CONTROL PLANS
IL RTE 185 OVER BAYOU CREEK**

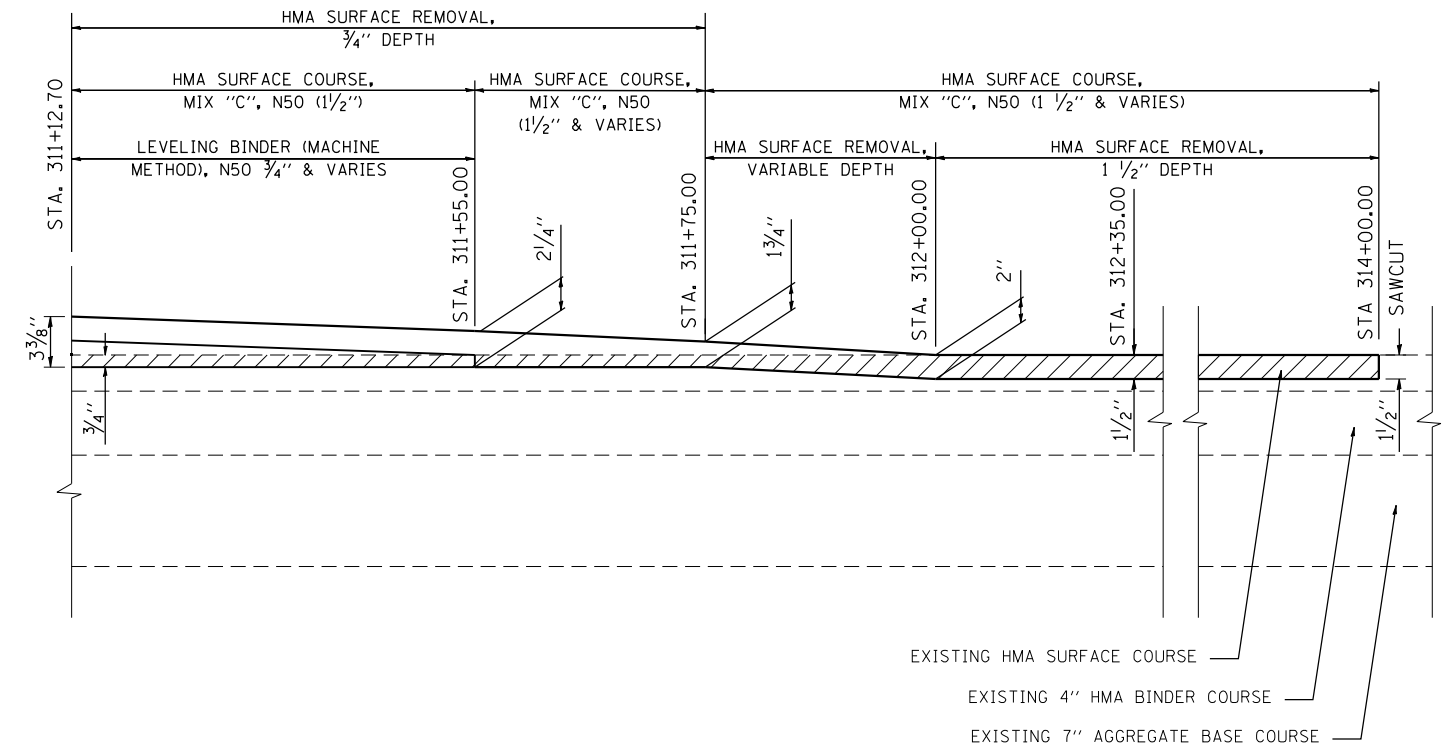
SCALE: 1" = 20' SHEET NO. 2 OF 2 SHEETS STA. 492+00.00 TO STA. 479+30.00

F.A. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
777	10B-2, 405B-1	MONTGOMERY	121	46
CONTRACT NO. 72D08				
ILLINOIS FED. AID PROJECT				



PAVEMENT DETAIL

STA. 307+05.00 TO STA. 309+57.70

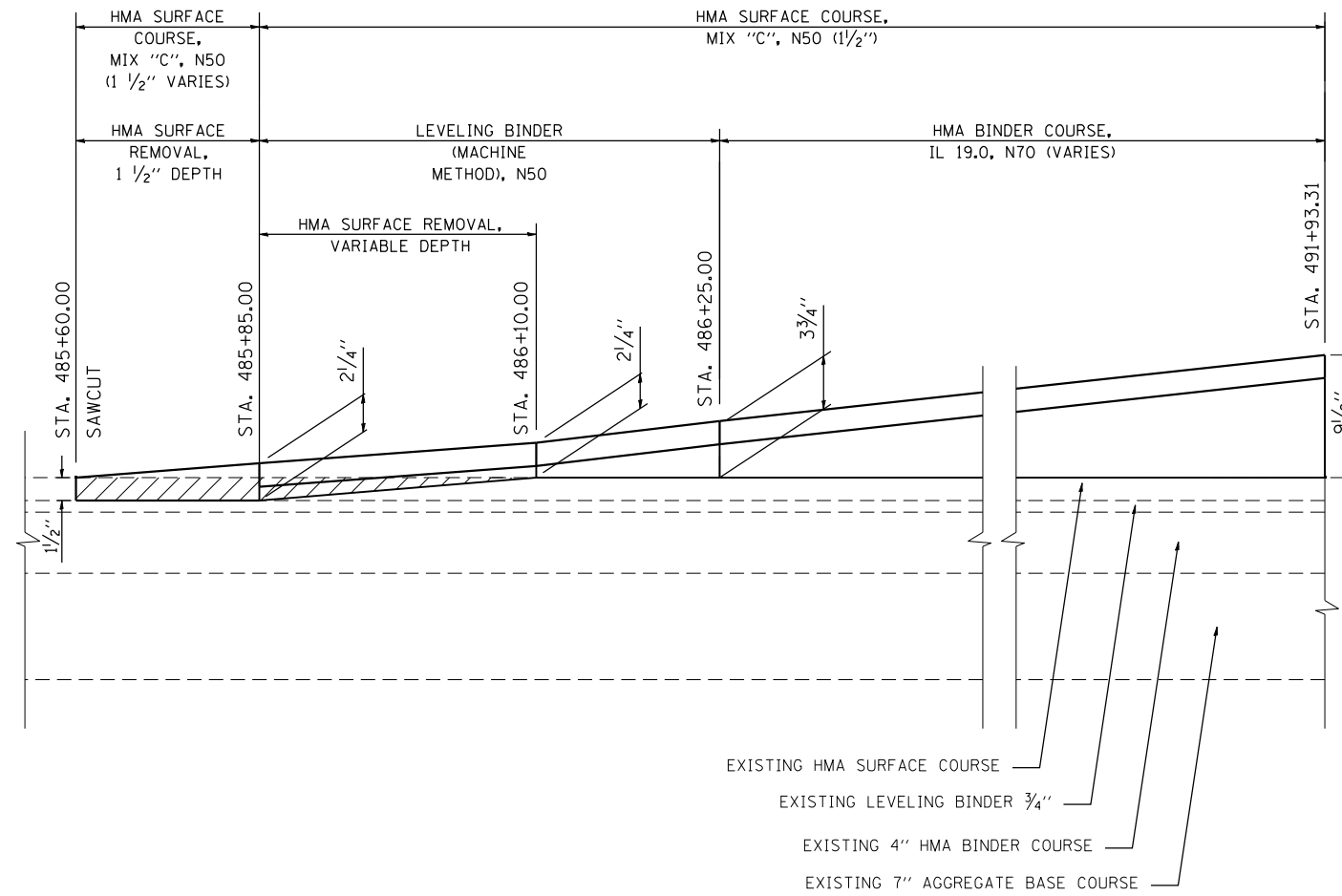


PAVEMENT DETAIL

STA. 311+12.70 TO STA. 314+00.00

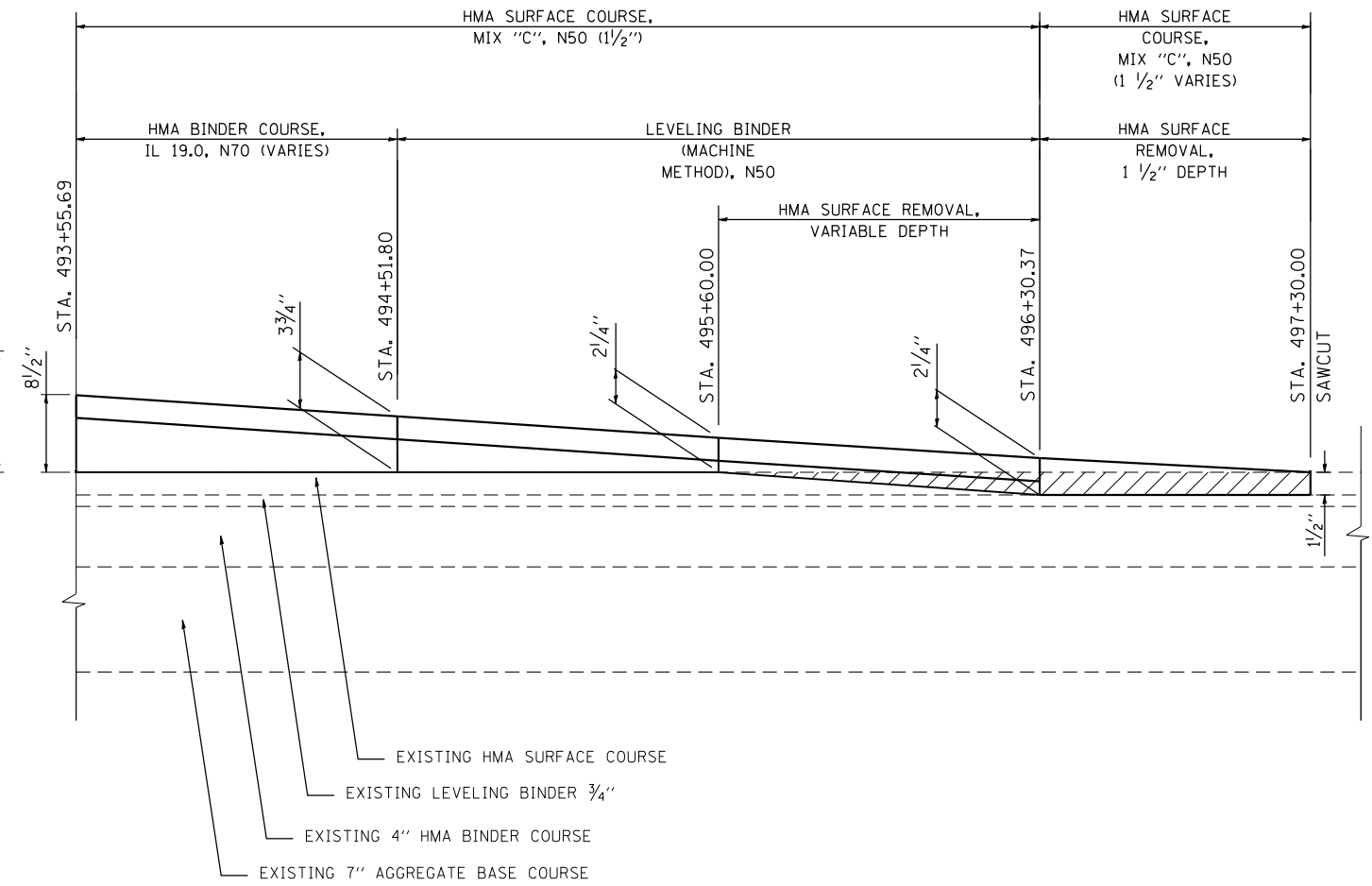
USER NAME = gjameson	DESIGNED -	REVISOR -
FILE NAME = D672D08-SHT-PAVEMENT-DETAILS	CHECKED -	REVISION -
PLOT SCALE = 1/8" = 1' / IN.	DRAWN -	REVISION -
PLOT DATE = 10/15/2015	CHECKED -	REVISION -

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
777	10B-2, 405B-1	MONTGOMERY	121	47
CONTRACT NO. 72D08				
ILLINOIS FED. AID PROJECT				



PAVEMENT DETAIL

STA. 485+60.00 TO STA. 491+93.31

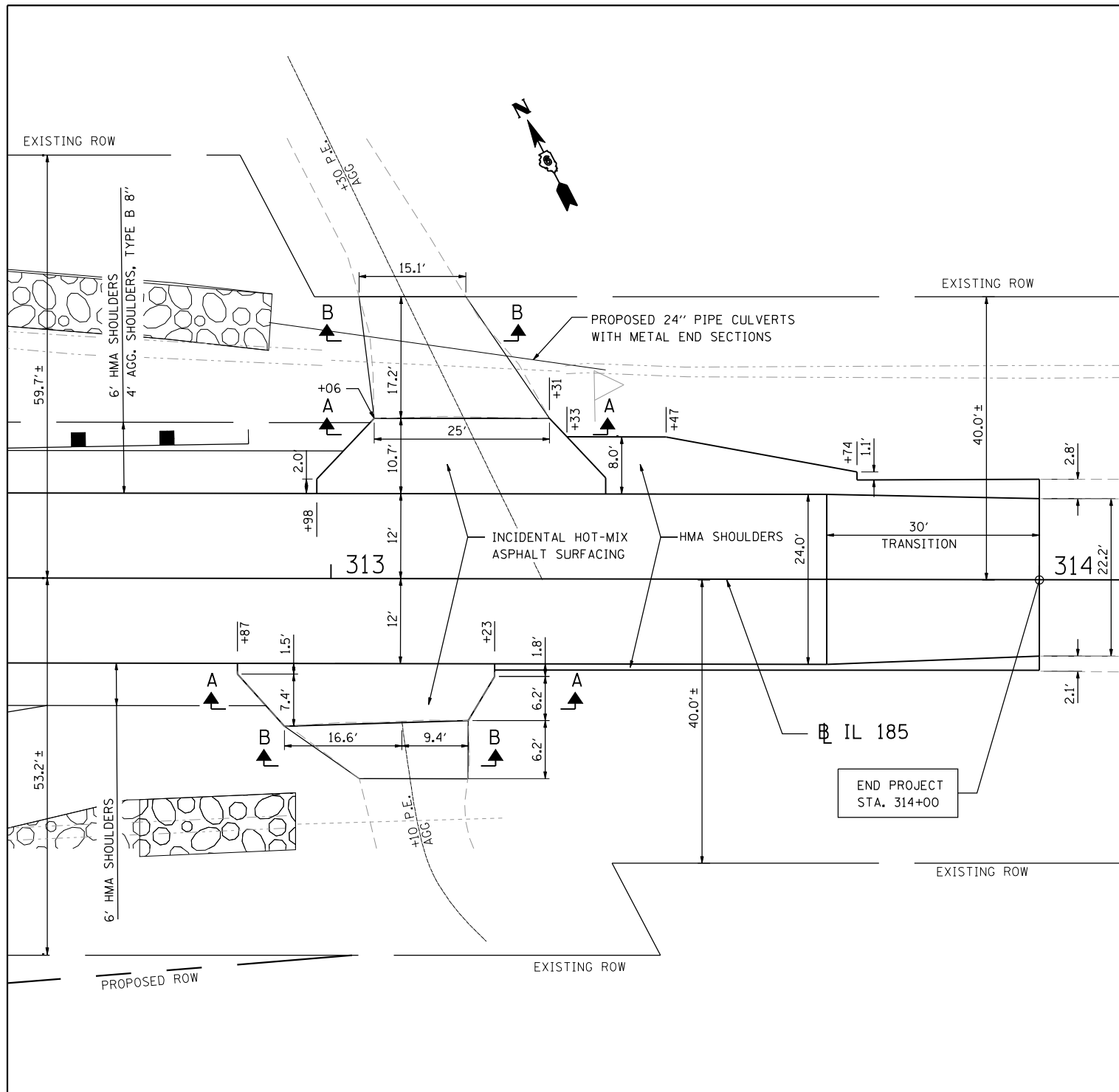


PAVEMENT DETAIL

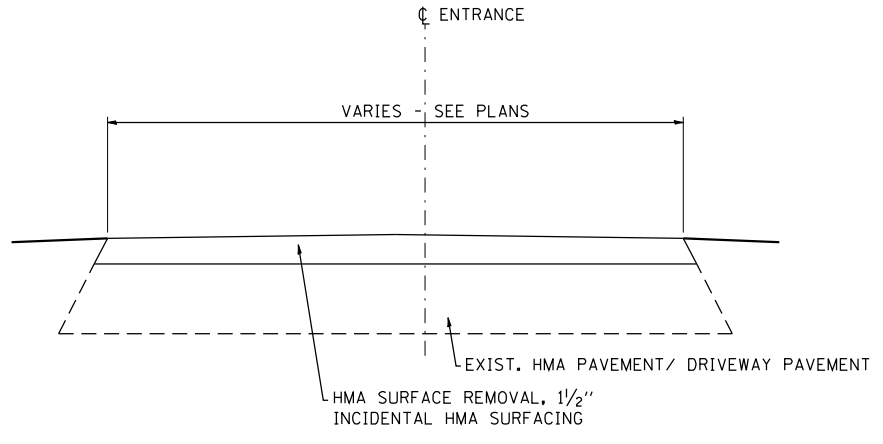
STA. 493+55.69 TO STA. 497+30.00

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FILE NAME = D672D08-SHT-PAVEMENT-DETAILS	CHECKED -	REVISION -
PLOT SCALE = 10:1 1/4" / IN.	DRAWN -	REVISION -
PLOT DATE = 10/15/2015	CHECKED -	REVISION -

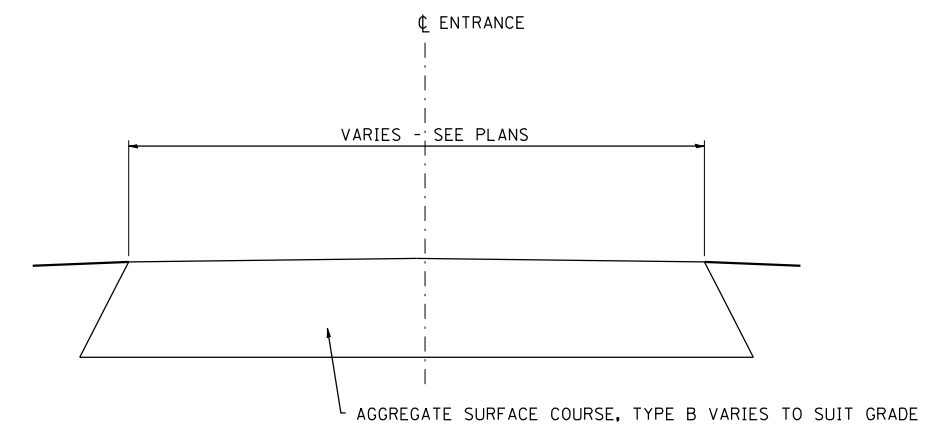
F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
777	10B-2, 405B-1	MONTGOMERY	121	48
ILLINOIS FED. AID PROJECT			CONTRACT NO. 72D08	



ENTRANCE DETAIL "A"
STA. 313+10.00 RT.
STA. 313+30.00 LT.



TYPICAL SECTION THRU ENTRANCE
SECTION A - A



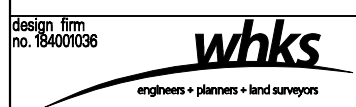
TYPICAL SECTION THRU ENTRANCE
SECTION B - B

NOTES:

THE RESIDENT ENGINEER WILL DETERMINE THE EXACT LAYOUT FOR ALL ENTRANCES, AND MAILBOX TURNOUTS ON THIS PROJECT.

THIS WORK WILL BE PAID FOR AT THE CONTRACT UNIT PRICE TON FOR INCIDENTAL BITUMINOUS SURFACING WHICH SHALL INCLUDE ALL MATERIALS, EQUIPMENT, AND LABOR INVOLVED.

ANY WORK THE ENGINEER REQUIRES WHICH IS NOT COVERED BY A PAY ITEM CONTAINED IN THE PLANS WILL BE PAID FOR IN ACCORDANCE WITH ARTICLE 109:04 OF THE STANDARD SPECIFICATIONS.

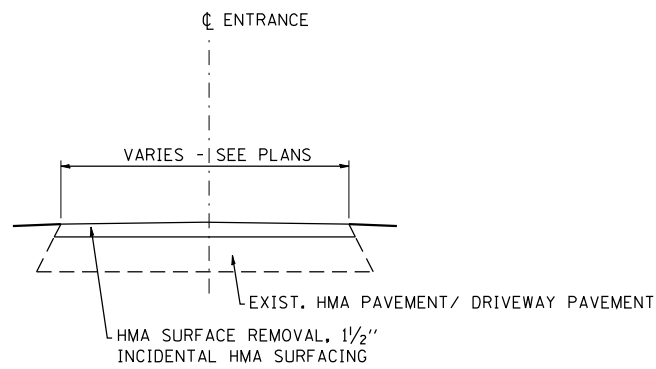


USER NAME = gjameson	DESIGNED -	REVISED
FILE NAME = D672D08-SHT-ENT-DETAIL	CHECKED -	REVISED
PLOT SCALE = 20.0000' / IN.	DRAWN -	REVISED
PLOT DATE = 10/15/2015	CHECKED -	REVISED

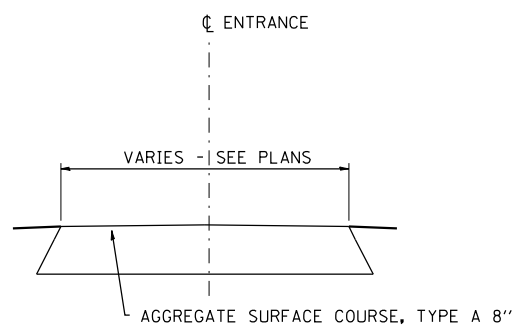
STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

ENTRANCE DETAILS		F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
IL 185 OVER MCDAVID BRANCH		777	10B-2, 405B-1	MONTGOMERY	121	49
SCALE: 1" = 10'	SHEET NO. 1 OF 1 SHEETS	STA.	TO STA.			

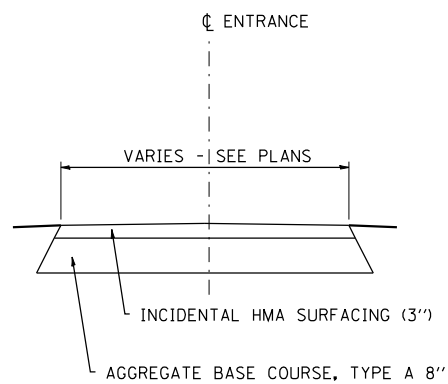
CONTRACT NO. 72D08		ILLINOIS FED. AID PROJECT	
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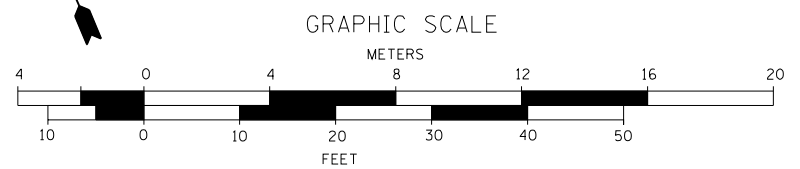
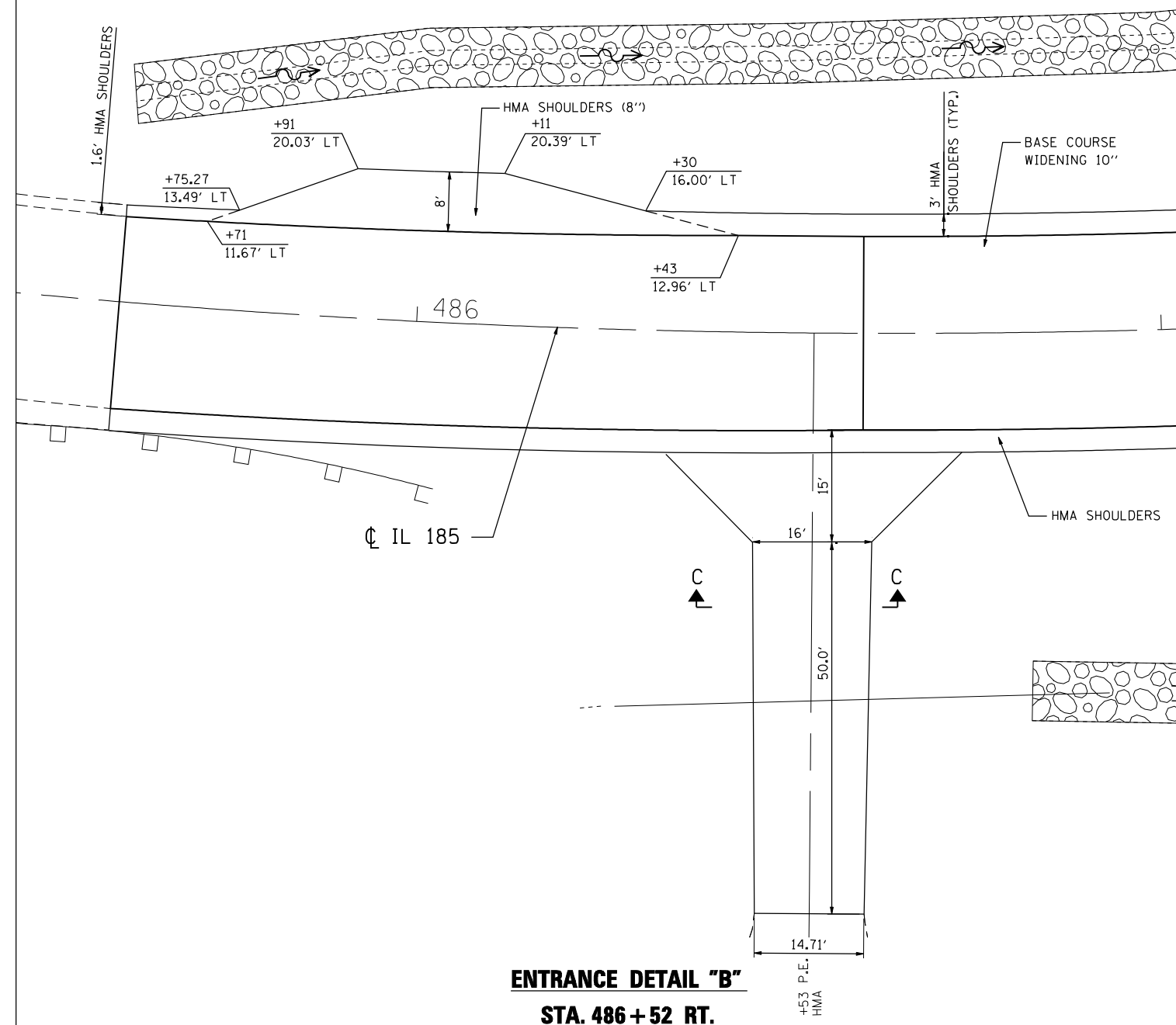
TYPICAL SECTION THRU ENTRANCE
SECTION A - A



TYPICAL SECTION THRU ENTRANCE
SECTION B - B

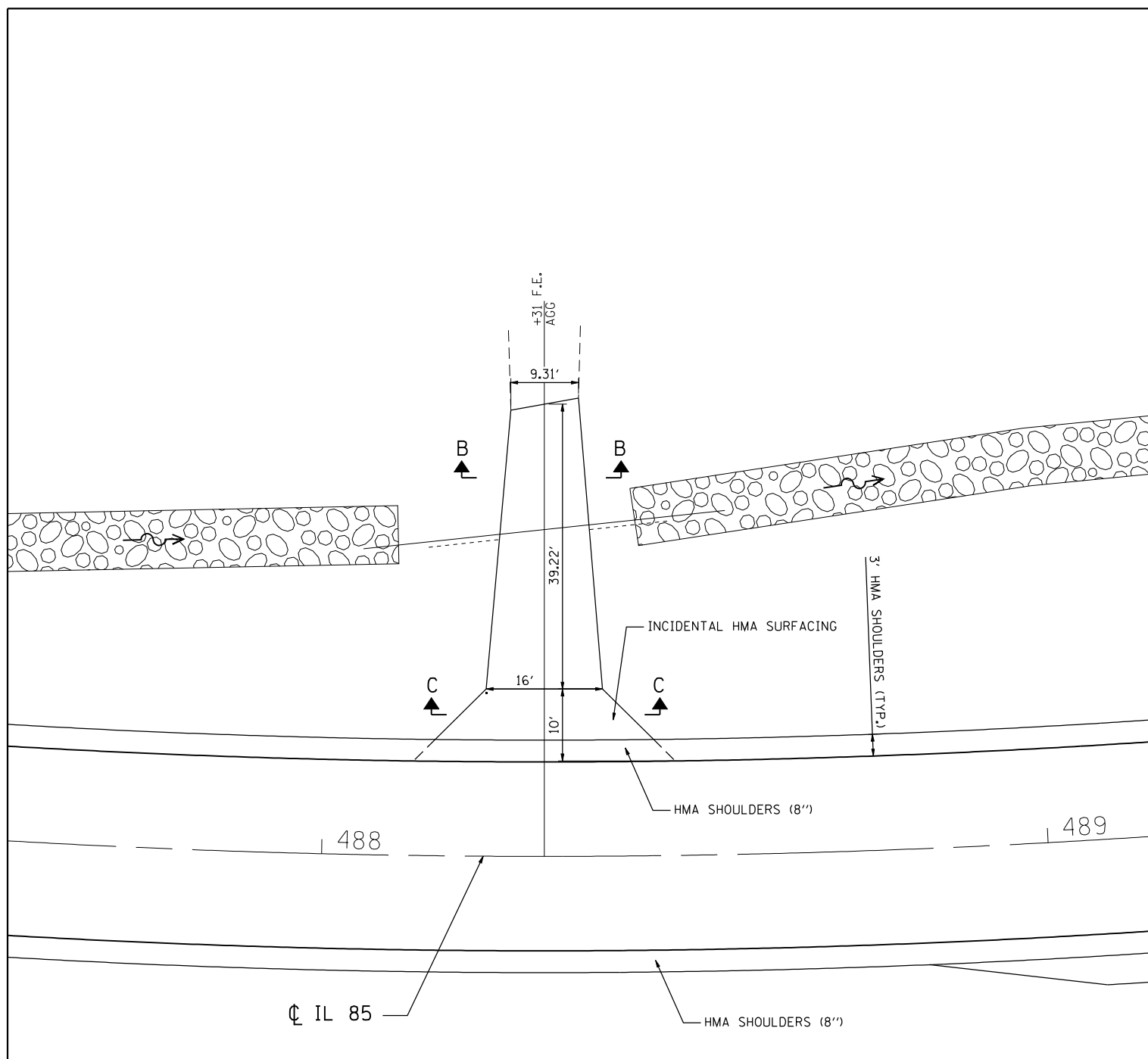


TYPICAL SECTION THRU ENTRANCE
SECTION C - C

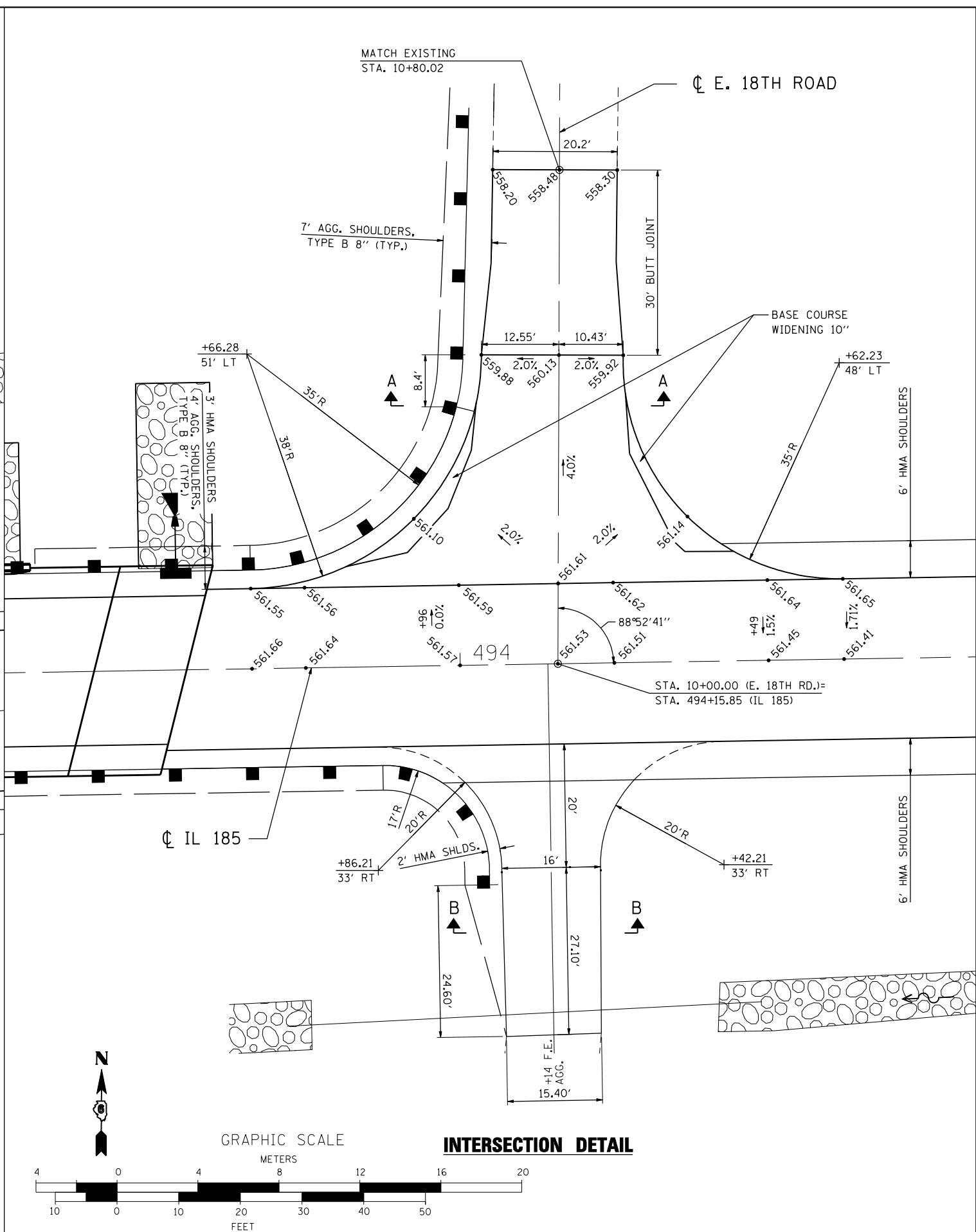
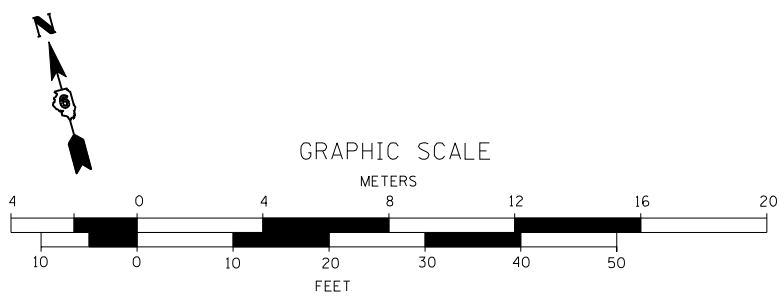


USER NAME = gjameson	DESIGNED -	REVISED
FILE NAME = D672D08-SHT-ENT-DETAIL	CHECKED -	REVISED
PLOT SCALE = 20.0000' / IN.	DRAWN -	REVISED
PLOT DATE = 10/15/2015	CHECKED -	REVISED

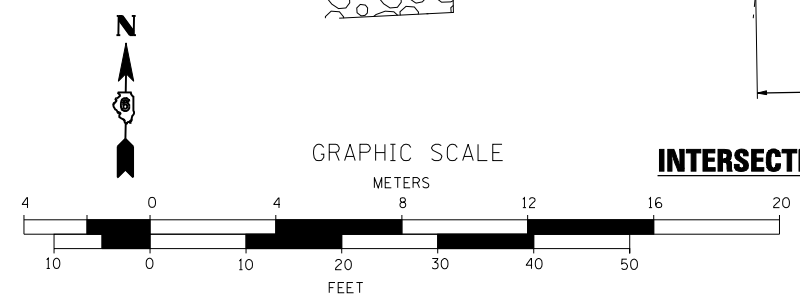
F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
777	10B-2, 405B-1	MONTGOMERY	121	50
CONTRACT NO. 72D08				
ILLINOIS FED. AID PROJECT				



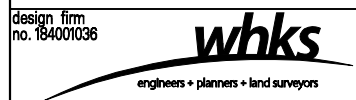
ENTRANCE DETAIL "C"
STA. 488 + 31 LT.



INTERSECTION DETAIL



NOTES:
 SEE SHEET 50 FOR SECTIONS A-A, B-B, AND C-C.



USER NAME = gjameson	DESIGNED -	REVISED
FILE NAME = D672D08-SHT-ENT_DETAIL	CHECKED -	REVISED
PLOT SCALE = 20.0000' / IN.	DRAWN -	REVISED
PLOT DATE = 10/15/2015	CHECKED -	REVISED

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

ENTRANCE AND INTERSECTION DETAILS		F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
IL RTE 185 OVER BAYOU CREEK		777	10B-2, 405B-1	MONTGOMERY	121	51
SCALE: 1" = 10'	SHEET NO. 2 OF 2 SHEETS	STA.	TO STA.		CONTRACT NO. 72D08	

ILLINOIS FED. AID PROJECT	
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NOTES

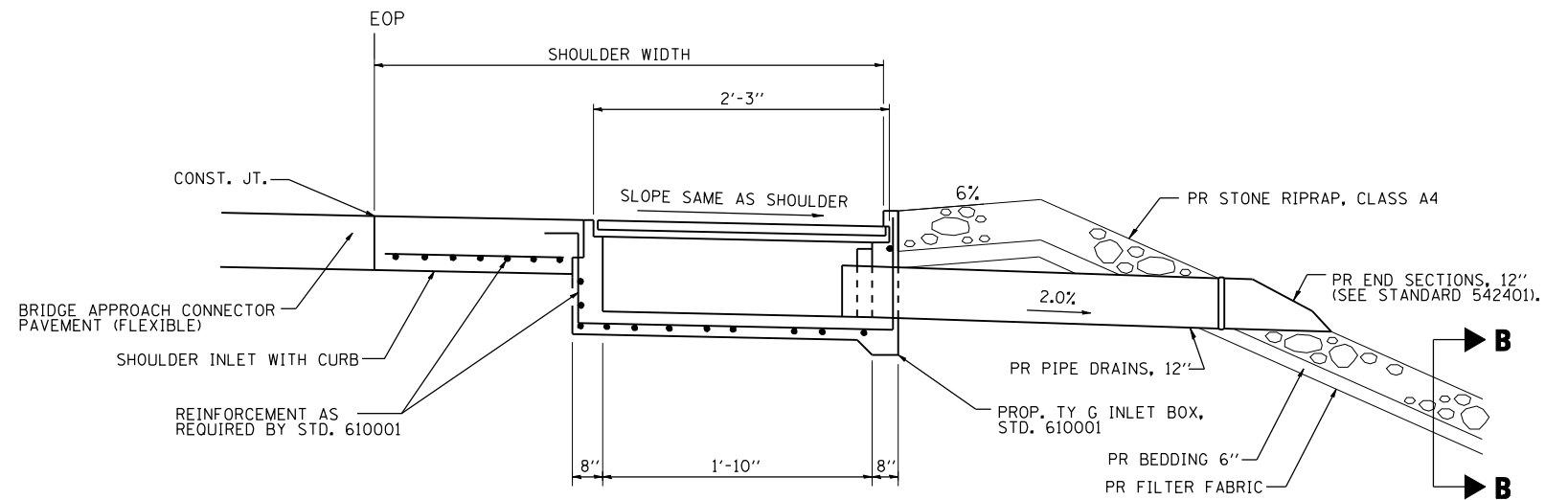
CONSTRUCTION SHALL BE ACCORDING TO STANDARDS 610001 AND 420401 EXCEPT AS MODIFIED.

INLET SHALL BE PLACED SUCH THAT THE OUTLET PIPE WILL MISS THE POST OF THE PROPOSED TYPE 6 TRAFFIC BARRIER TERMINAL. MINOR ADJUSTMENTS TO THE LENGTH AND QUANTITY OF THE CONNECTOR PAVEMENT MAY BE REQUIRED.

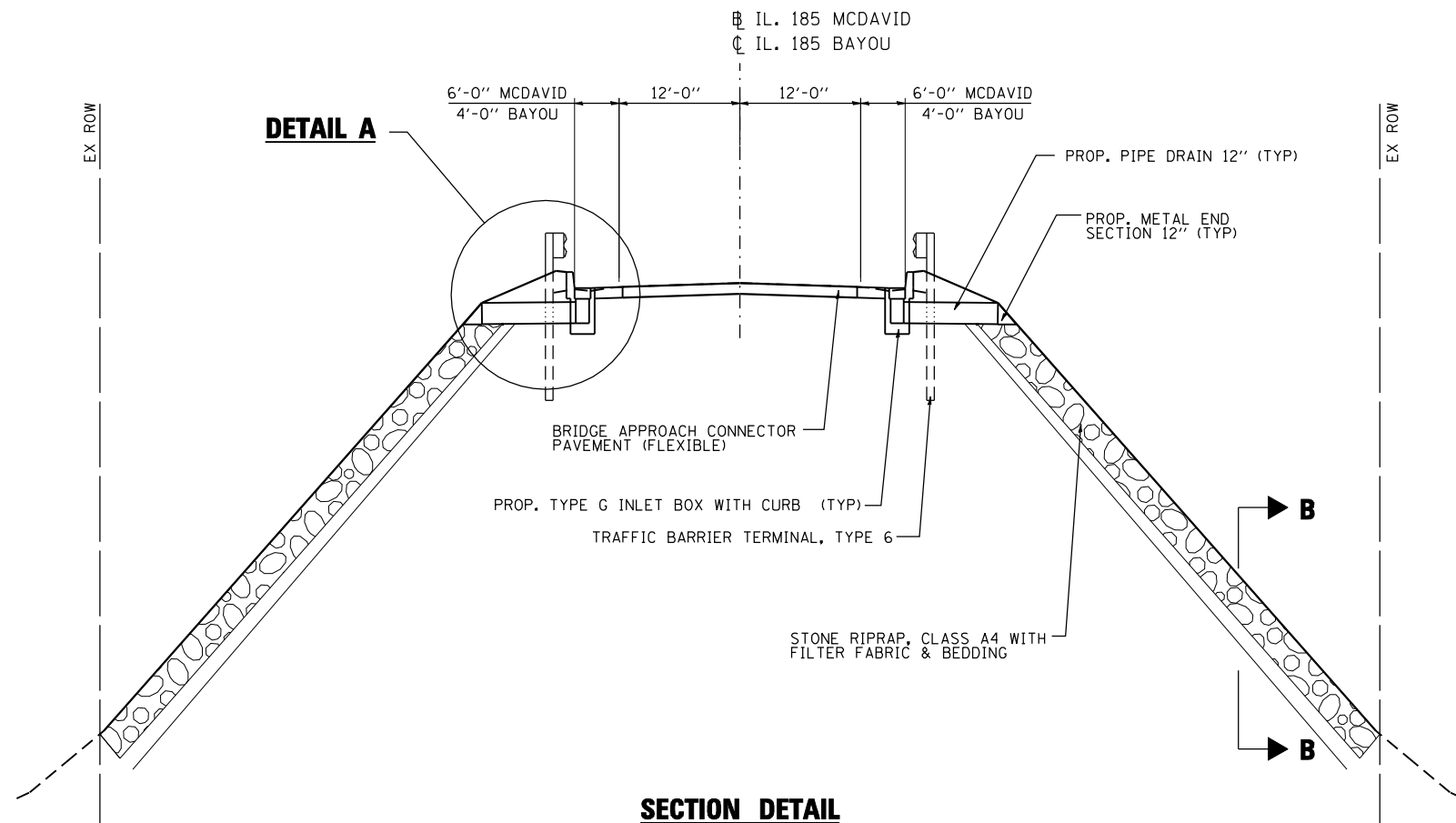
THE ANCHOR BOLTS REQUIRED TO TIE THE PIPE DRAIN TO THE CONCRETE COLLAR ACCORDING TO STD. 610001 SHALL BE CONSIDERED INCLUDED IN THE CONTRACT UNIT PRICE, EACH, FOR TYPE G INLET BOX, STD 610001 AND NO ADDITIONAL COMPENSATION WILL BE MADE.

THE REINFORCING AND TIE BARS REQUIRED ACCORDING TO STD. 610001 SHALL BE CONSIDERED INCLUDED IN THE CONTRACT UNIT PRICE, EACH, FOR TYPE G INLET BOX, STD 610001 AND NO ADDITIONAL COMPENSATION WILL BE MADE.

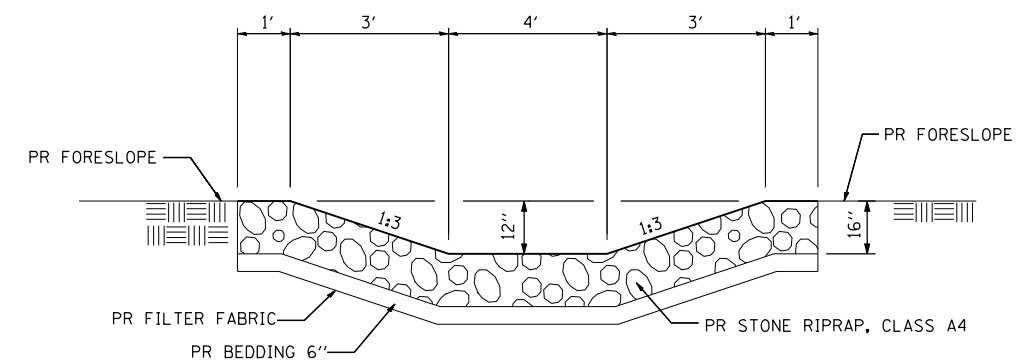
EXCAVATION REQUIRED TO CONSTRUCT THE RIPRAP SWALE AS SHOWN SHALL BE CONSIDERED AS INCLUDED IN THE COST OF RIPRAP, CLASS A4.



DETAIL A



SECTION DETAIL



SECTION B-B

design firm
no. 184001036

whks
engineers + planners + land surveyors

USER NAME = gjameson	DESIGNED -	REVISED -
FILE NAME = D672D08-SHT-BOX DETAIL	CHECKED -	REVISED -
PLOT SCALE = 10.0000 / IN.	DRAWN -	REVISED -
PLOT DATE = 10/15/2015	CHECKED -	REVISED -

**STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION**

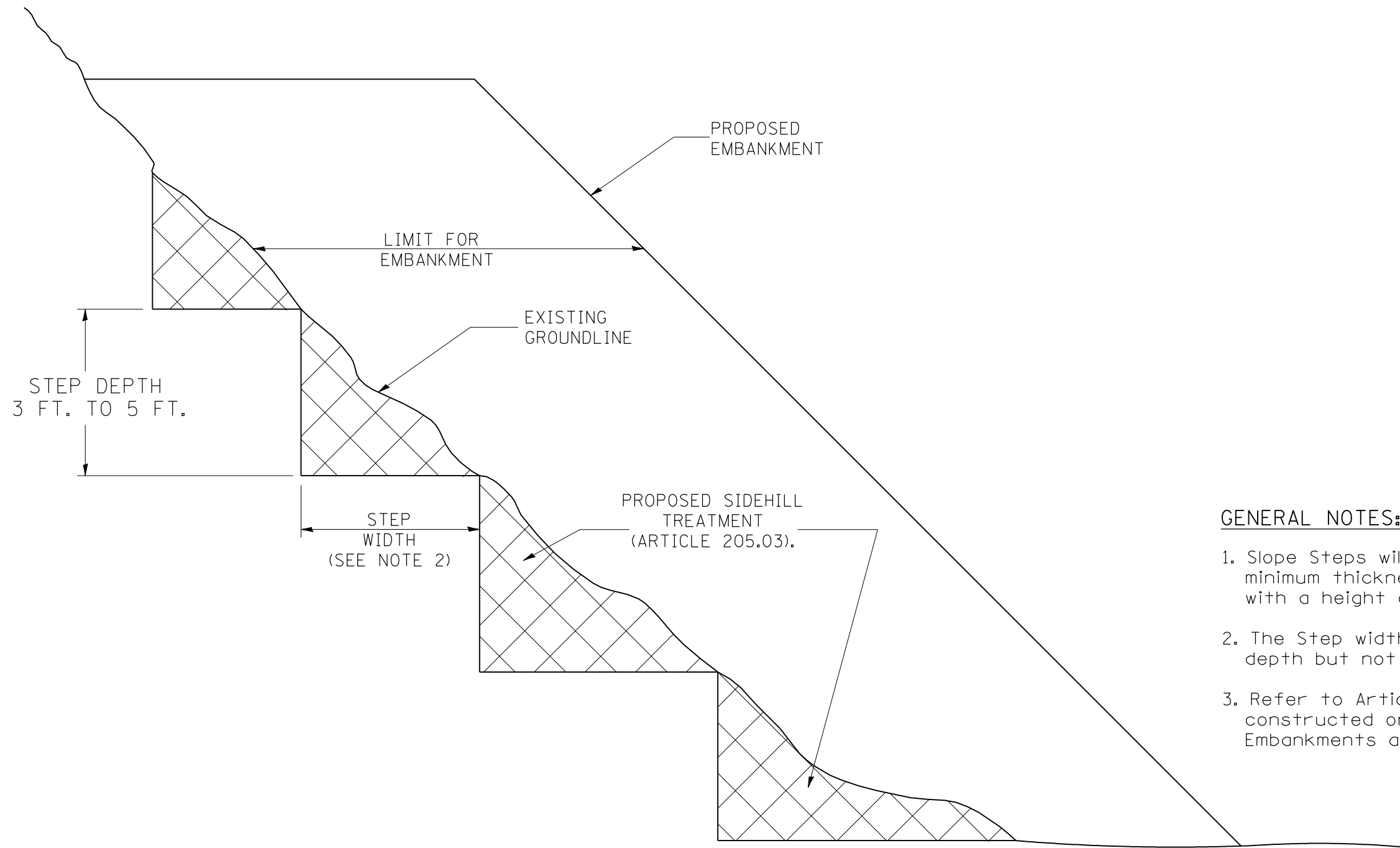
TYPE G INLET BOX DETAILS

SCALE: 1" = 10' SHEET NO. 1 OF 1 SHEETS STA. TO STA.

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
777	10B-2, 405B-1	MONTGOMERY	121	52
CONTRACT NO. 72D08				
ILLINOIS FED. AID PROJECT				

SLOPE STEPS DETAIL

TYPICAL CROSS-SECTION EMBANKMENT CONSTRUCTION ON SIDEHILL



GENERAL NOTES:

1. Slope Steps will be required for all 12 (300) minimum thickness "silver fills" and on a fills with a height of 10' (3.0 m).
2. The Step width shall be twice the Step depth but not less than 6 feet.
3. Refer to Article 205.03 for Embankment to be constructed on Hillside or Slopes, or if existing Embankments are to be widened.

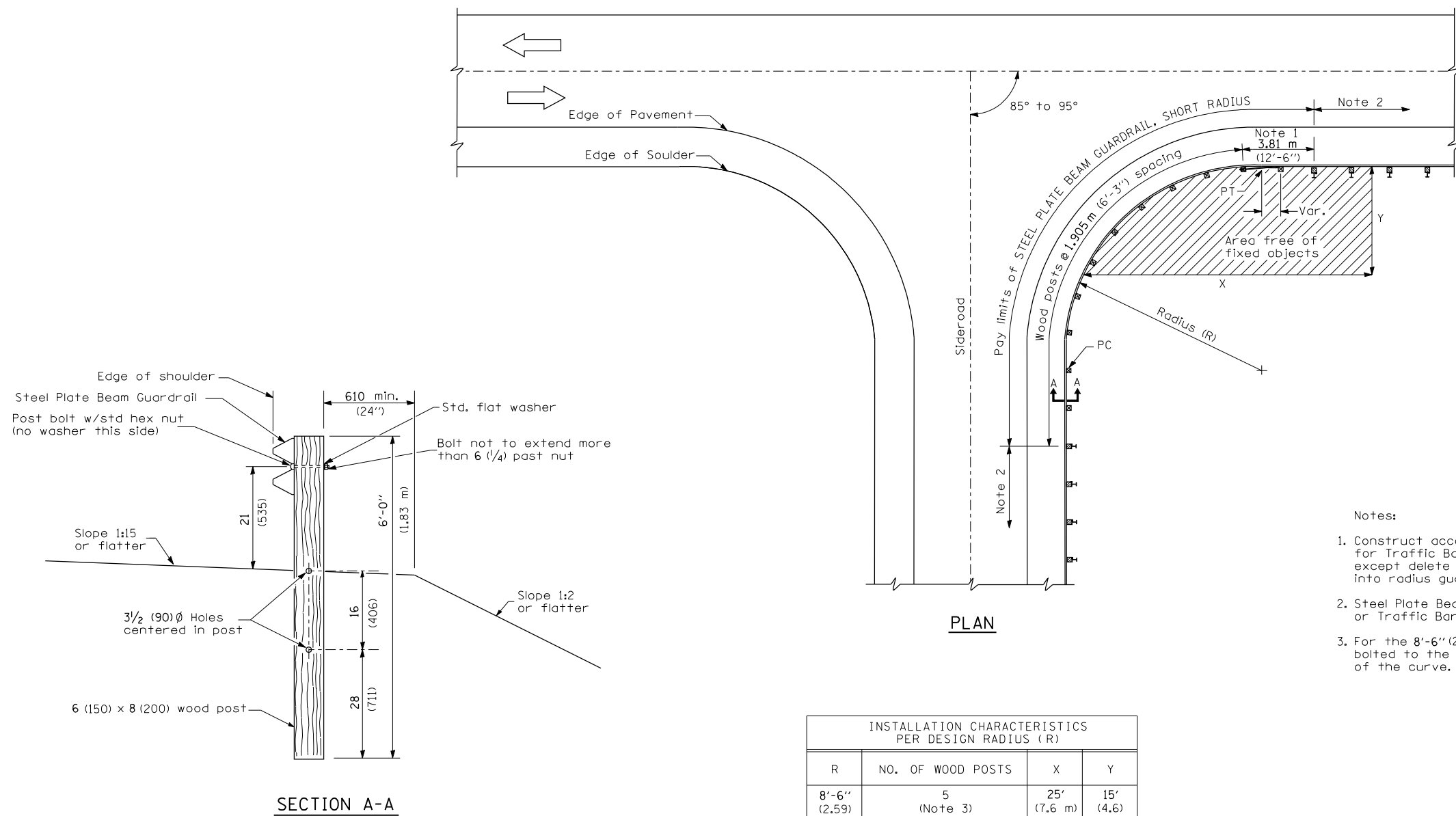
REPLACEMENT MATERIAL:



STANDARD EMBANKMENT
(IN ACCORDANCE WITH
205 OF THE STANDARD SPECIFACATION).

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

design firm no. 184001036 engineers + planners + land surveyors	USER NAME = gjameson	DESIGNED -	REVISED	STATE OF ILLINOIS DEPARTMENT OF TRANSPORTATION	SLOPE STEPS DETAIL			F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
	FILE NAME = D672D08-SN0680026-SHT-10	CHECKED -	REVISED		REVISED	777	10B-2, 405B-1	MONTGOMERY	121	53	CONTRACT NO. 72D08	
PLOT SCALE = 40,000 ' / IN.	DRAWN -	REVISED	REVISED	SCALE: NTS	SHEET NO. 1 OF 3 SHEETS	STA.	TO STA.	ILLINOIS FED. AID PROJECT				
PLOT DATE = 10/15/2015	CHECKED -	REVISED	REVISED									

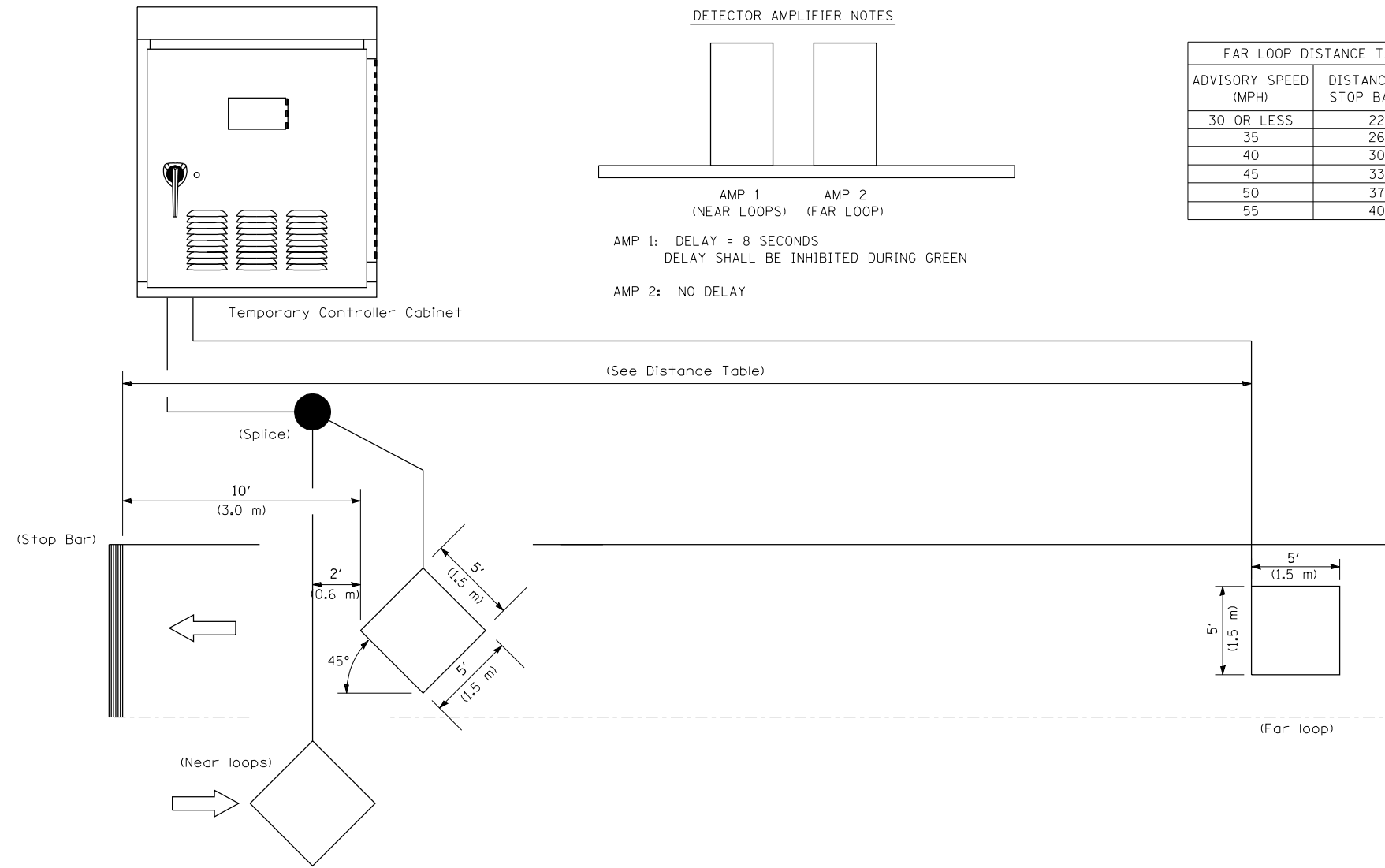


- Notes:
1. Construct according to Standard 631011 for Traffic Barrier Terminal Type 2, except delete end section and splice into radius guardrail.
 2. Steel Plate Beam Guardrail Type A, Type B, or Traffic Barrier Terminal as specified.
 3. For the 8'-6" (2.59 m) radius, the rail is not bolted to the post located at the midpoint of the curve.

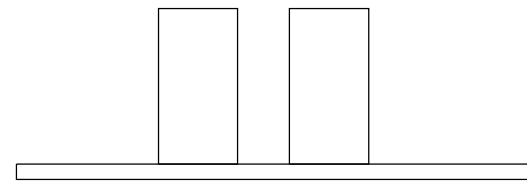
INSTALLATION CHARACTERISTICS PER DESIGN RADIUS (R)			
R	NO. OF WOOD POSTS	X	Y
8'-6" (2.59)	5 (Note 3)	25' (7.6 m)	15' (4.6)
17'-0" (5.18)	6	30' (9.1 m)	15' (4.6)
25'-6" (7.77)	8	40' (12.2 m)	20' (6.1)
35'-0" (10.67)	11	50' (15.2 m)	20' (6.1)

GENERAL NOTES

All slope ratios are expressed as units of vertical displacement to units of horizontal displacement (V:H).
 All dimensions are in inches (millimeters) unless otherwise shown.



DETECTOR AMPLIFIER NOTES



AMP 1: DELAY = 8 SECONDS
 DELAY SHALL BE INHIBITED DURING GREEN

AMP 2: NO DELAY

FAR LOOP DISTANCE TABLE	
ADVISORY SPEED (MPH)	DISTANCE FROM STOP BAR (FT.)
30 OR LESS	220
35	260
40	300
45	330
50	370
55	400

NOTE: All loops centered in lane.

INDUCTION LOOP DETECTOR

Bench Mark: Chiseled "□" in the north end of east concrete approach slab set in N.E. corner of bridge S.N. 068-0026.

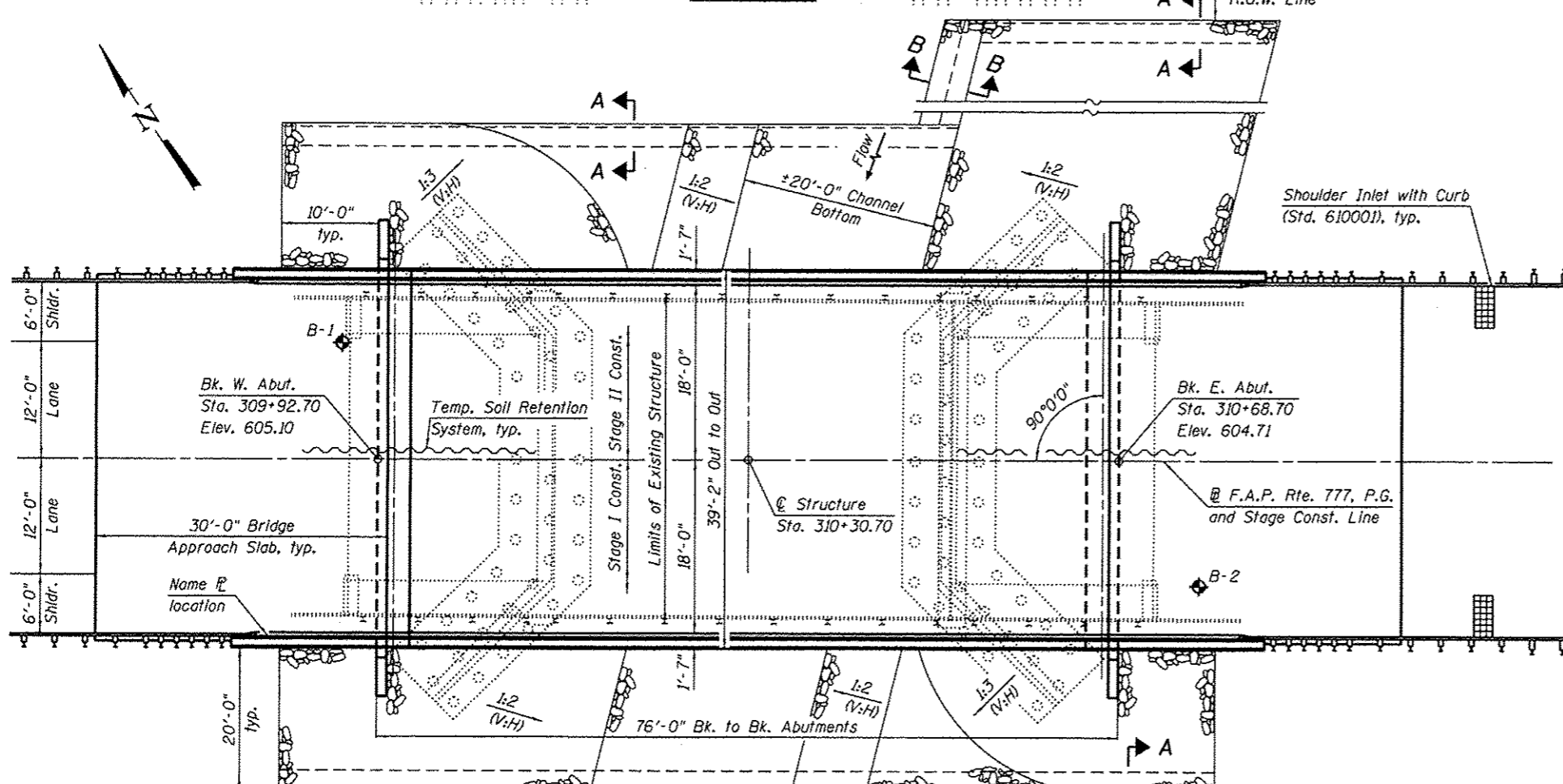
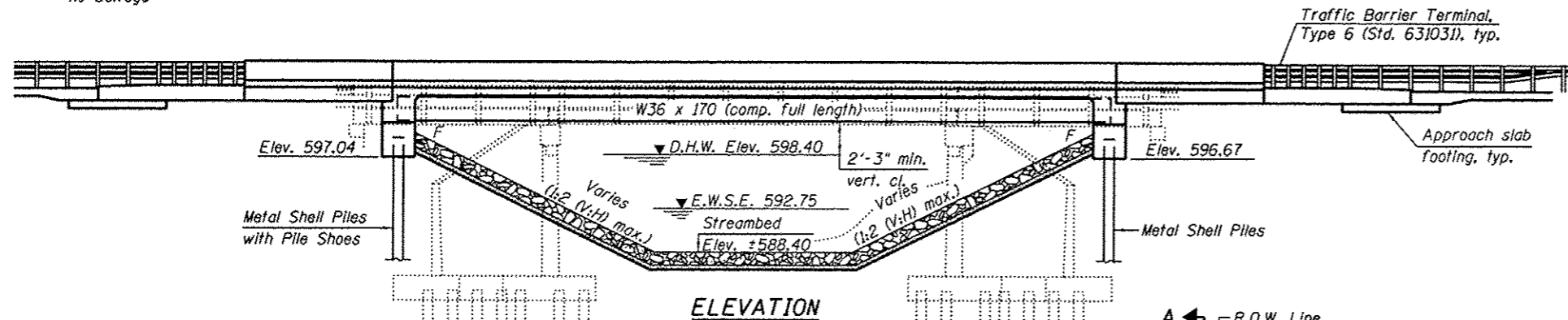
Elev. 604.176.

Existing Structure: S.N. 068-0026 was originally built in 1930 as SA RT9, Section 1-A.M.F.T. and reconstructed in 1982 as F.A. Route 777, Section 405 BR at Station 310+30.70. The existing structure consists of single span PPC deck beams on closed abutments, 43'-0" bk. to bk. of abutments and 33'-0" out to out of deck. The structure is to be removed and replaced. Traffic to be maintained utilizing stage construction.

No Salvage

INDEX OF SHEETS

1. General Plan and Elevation
2. General Data
3. Stage Construction Details
4. Temporary Concrete Barrier for Stage Construction
5. Top of Slab Location Plan
6. Top of Slab Elevations
- 7.-8. Top of Approach Slab Elevations
9. Superstructure
10. Superstructure Details
11. Integral Abutment Diaphragm Details
- 12.-13. Bridge Approach Slab Details
14. Framing Plan
15. Structural Steel Details
16. Abutments
17. Metal Shell Pile Details
18. Bar Splicer Assembly and Mechanical Splicer Details
- 19.-21. Boring Logs



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

DESIGN SPECIFICATIONS
AASHTO LRFD Bridge Design Specifications,
6th Edition with 2013 Interim Revisions

DESIGN STRESSES

FIELD UNITS
f'c = 3,500 psi
fy = 60,000 psi (Reinforcement)
fy = 50,000 psi (M270 Grade 50W)

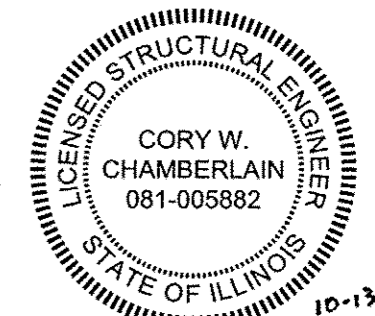
SEISMIC DATA

Seismic Performance Zone (SPZ) = 3
Design Spectral Acceleration at 1.0 sec. (S_{D1}) = 0.305g
Design Spectral Acceleration at 0.2 sec. (S_{D5}) = 0.694g
Soil Site Class = E

APPROVED
For Structural Adequacy Only
Cory W. Chamberlain
Engineer of Bridges & Structures

STATION 310+30.70
BUILT 20 BY
STATE OF ILLINOIS
F.A.P. RTE. 777 - SEC. 405B-1
LOADING HL-93
STRUCTURE NO. 068-0512

NAME PLATE
See Std. 515001



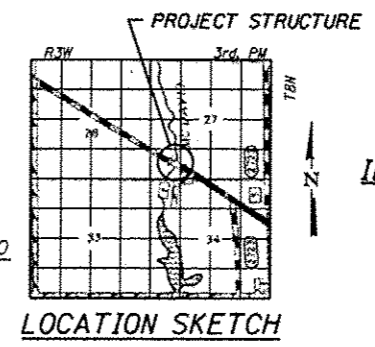
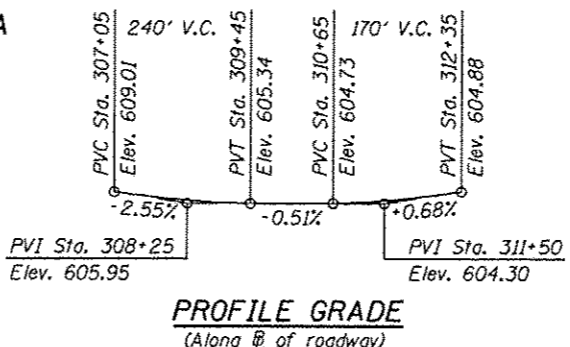
WATERWAY INFORMATION TABLE

Drainage Area = 4.8 sq. mi.		Exist. Low Grade Elev. = 604.35 @ Sta. 311+00		Prop. Low Grade Elev. = 604.40 @ Sta. 311+00		
Flood	Freq. Yr.	Q C.F.S.	Opening Sq. Ft.	Nat. H.W.E.	Head - Ft.	Headwater El.
			Exist. Prop.	Exist. Prop.	Exist. Prop.	Exist. Prop.
Design	10	1540	220 280	597.30	0.7 0.4	598.00 597.70
Base	50	2510	265 340	598.40	1.4 0.7	599.80 599.10
Max. Calc.	100	2950	280 370	598.80	1.8 0.9	600.60 599.80
	500	4050	320 420	599.80	4.5 2.3	604.30 602.10

10 Yr. velocities = Exist. = 7.1 fps / Prop. = 5.5 fps

DESIGN SCOUR ELEVATION TABLE

Design Scour Elevations (ft.)		Item
W. Abut.	E. Abut.	113
597.04	596.67	8



GENERAL PLAN AND ELEVATION
ILLINOIS ROUTE 185 OVER McDAVID BRANCH
F.A.P. RTE. 777 - SEC. 405B-1
MONTGOMERY COUNTY
STATION 310+30.70
STRUCTURE NO. 068-0512



USER NAME = #OPERATOR#	DESIGNED - BRD	REVISED
FILE NAME = 0680512-72008.dgn	CHECKED - TJZ	REVISED
PLOT SCALE = 1/8" = 1' / in.	DRAWN - DLH	REVISED
PLOT DATE = 18/14/2015	CHECKED - BRD	REVISED

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

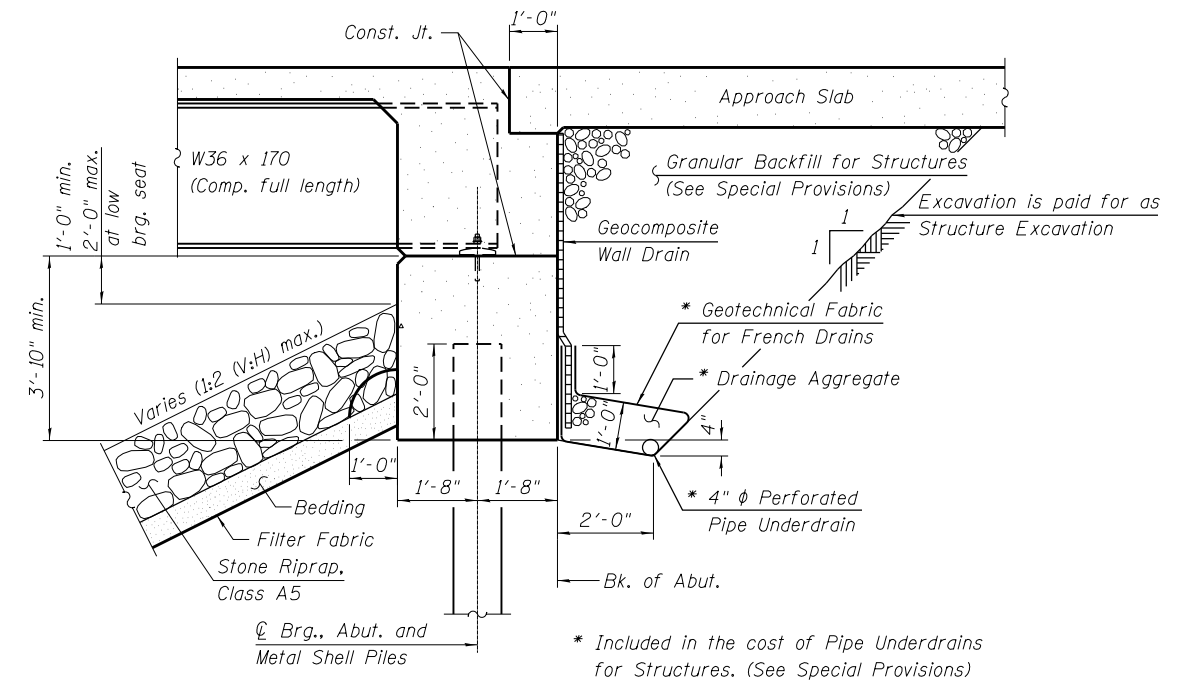
F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
777	405B-1	MONTGOMERY	120	56
CONTRACT NO. 72D08				
ILLINOIS FED. AID PROJECT				

GENERAL NOTES

1. Fasteners shall be ASTM A325 Type 3. Bolts 3/4" φ, holes 13/16" φ, unless otherwise noted.
2. Calculated weight of Structural Steel = 84,310 lbs.
3. All structural steel shall be AASHTO M 270 Grade 50W.
4. No field welding is permitted except as specified in the contract documents.
5. Reinforcement bars designated (E) shall be epoxy coated.
6. Structural steel shall only be painted for a distance equal to the depth of embedment into the concrete diaphragm plus 1'-6". Painted areas shall be primed in the shop with a Department approved zinc rich primer. Field painting will not be required.
7. Layout of the slope protection system may be varied to suit ground conditions in the field as directed by the Engineer.
8. The structure is referenced to a Baseline of Construction.
9. Slipforming of the parapet is not allowed.

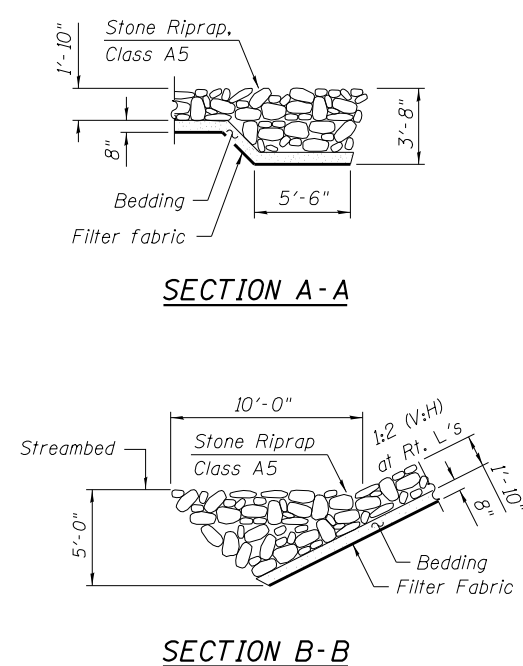
TOTAL BILL OF MATERIAL

ITEM	UNIT	SUPER	SUB	TOTAL
Stone Riprap, Class A5	Sq. Yd.		955	955
Filter Fabric	Sq. Yd.		955	955
Removal of Existing Structures No. 1	Each	1		1
Structure Excavation	Cu. Yd.		266	266
Concrete Structures	Cu. Yd.		69.0	69.0
Concrete Superstructure	Cu. Yd.	241.1		241.1
Bridge Deck Grooving	Sq. Yd.		509	509
Protective Coat	Sq. Yd.		631	631
Furnishing and Erecting Structural Steel	L. Sum	0.45		0.45
Stud Shear Connectors	Each	1,404		1,404
Reinforcement Bars, Epoxy Coated	Pound	51,560	12,140	63,700
Bar Splicers	Each	399	108	507
Furnishing Metal Pile Shells 14"x0.312"	Foot		695	695
Driving Piles	Foot		695	695
Test Pile Metal Shells	Each		2	2
Pile Shoes	Each		6	6
Name Plates	Each	1		1
Anchor Bolts, 1"	Each		24	24
Geocomposite Wall Drain	Sq. Yd.		74	74
Granular Backfill for Structures	Cu. Yd.		131	131
Asbestos Bearing Pad Removal	Each		26	26
Pipe Underdrains for Structures 4"	Foot		168	168
Temporary Soil Retention System	Sq. Ft.		538	538



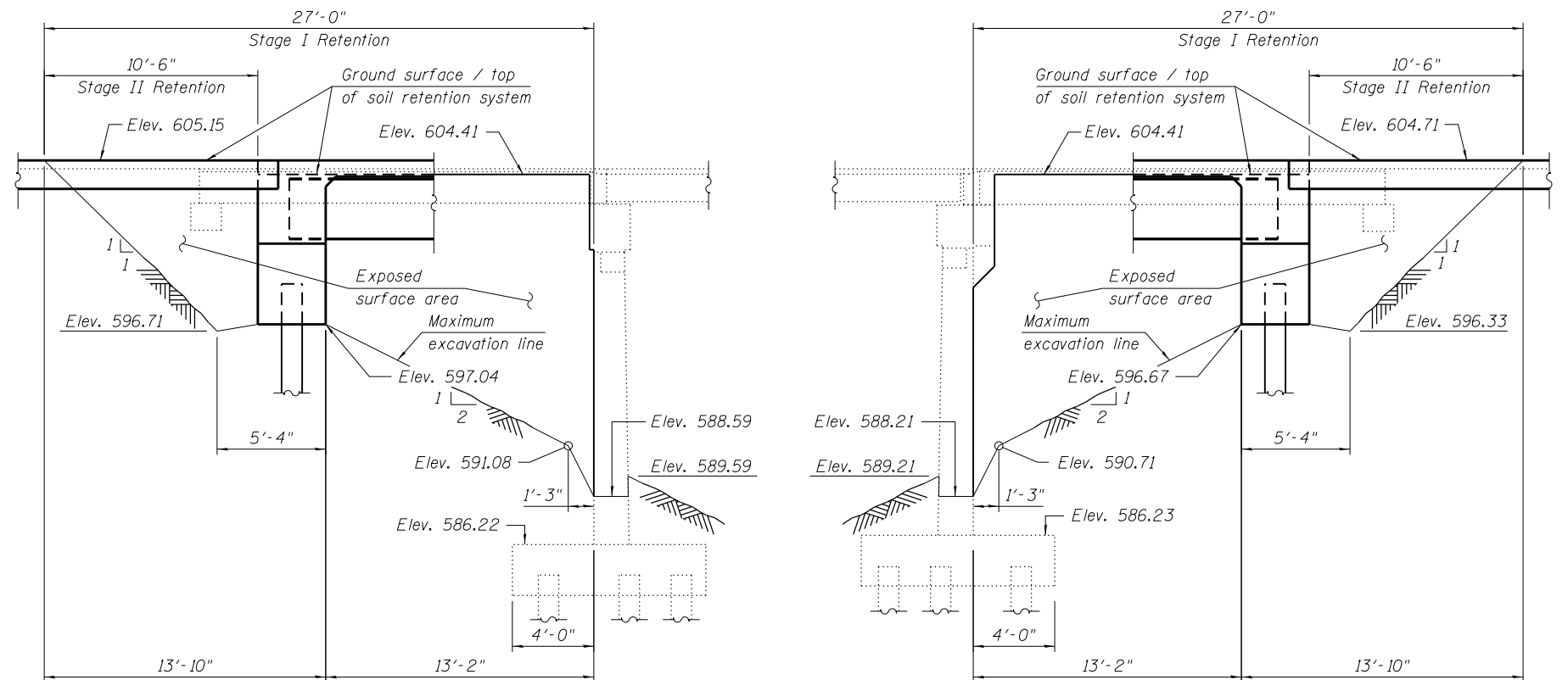
SECTION THRU INTEGRAL ABUTMENT

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).



SECTION A-A

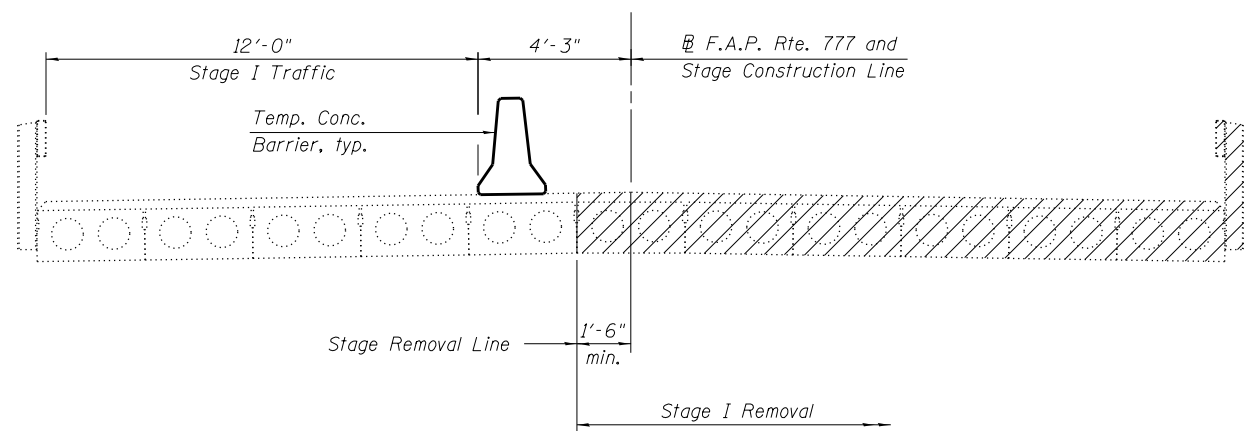
SECTION B-B



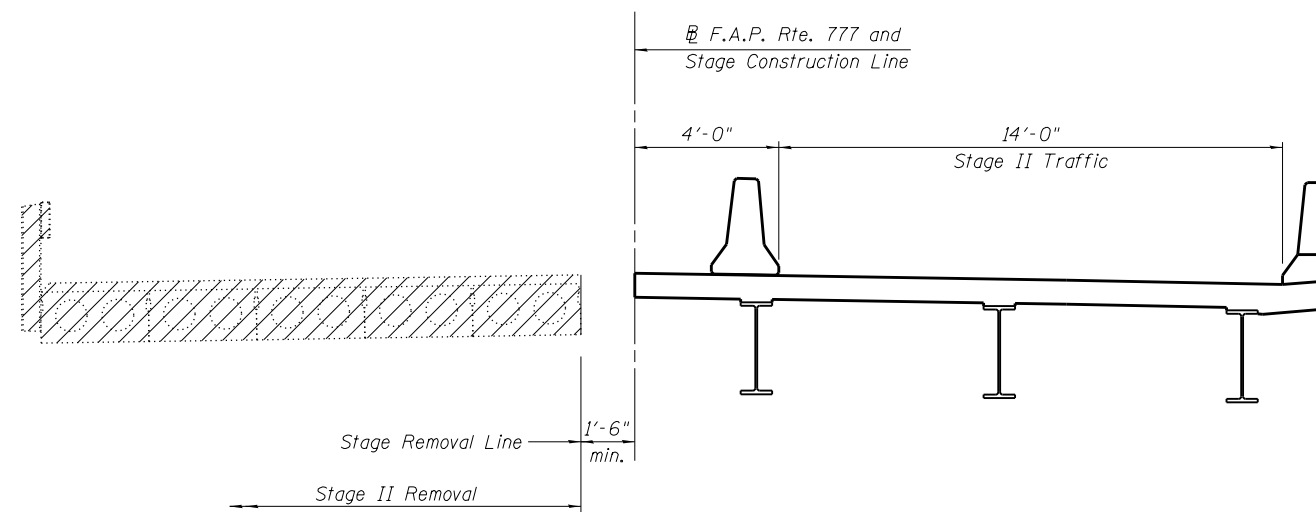
TEMPORARY SOIL RETENTION SYSTEM

(Looking North)

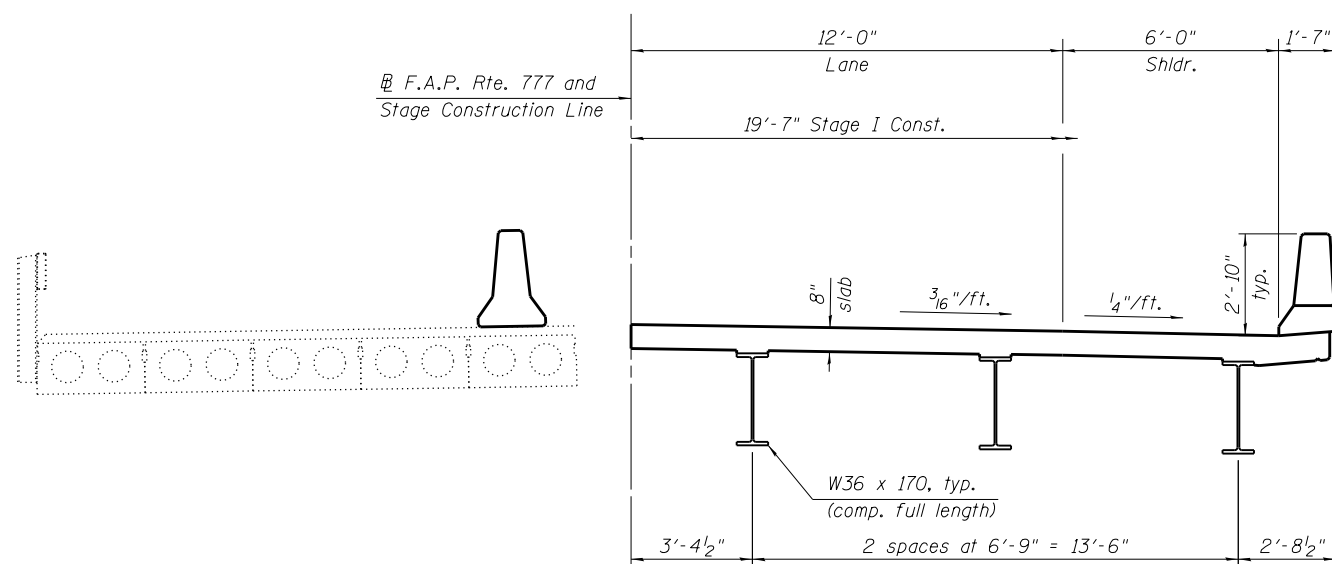
A cantilevered sheet piling design does not appear feasible and additional members or other retention systems may be necessary. The Contractor shall submit a temporary soil retention system design including plan details and calculations for review and acceptance by the Engineer.



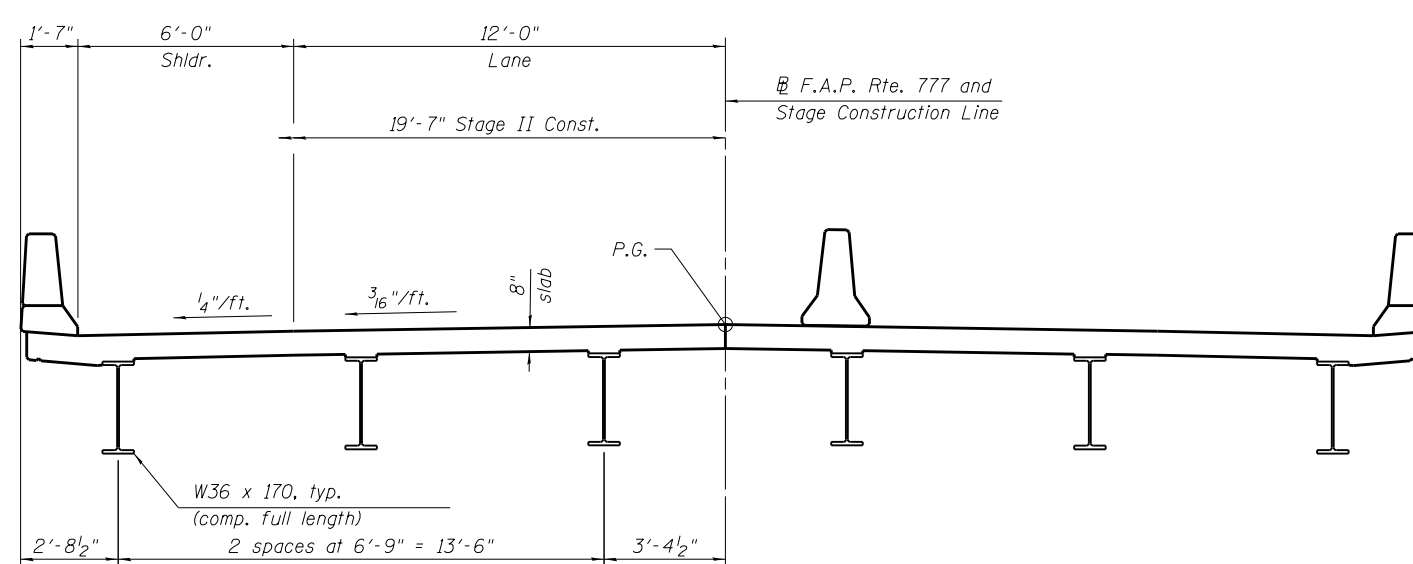
STAGE I REMOVAL
(Looking East)



STAGE II REMOVAL
(Looking East)



STAGE I CONSTRUCTION
(Looking East)



STAGE II CONSTRUCTION
(Looking East)

- Notes:
1. Hatched area indicates Removal of Existing Structures.
 2. For details of Temporary Concrete Barrier, see sheet 4 of 21.
 3. See roadway plans for quantity of Temporary Concrete Barrier.

Design firm
no. 184001036



USER NAME = dheberling	DESIGNED - BRD	REVISED
FILE NAME = 0680512-72D08.dgn	CHECKED - TJZ	REVISED
PLOT SCALE = 0:2' = 1" / in.	DRAWN - DLH	REVISED
PLOT DATE = 10/15/2015	CHECKED - BRD	REVISED

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

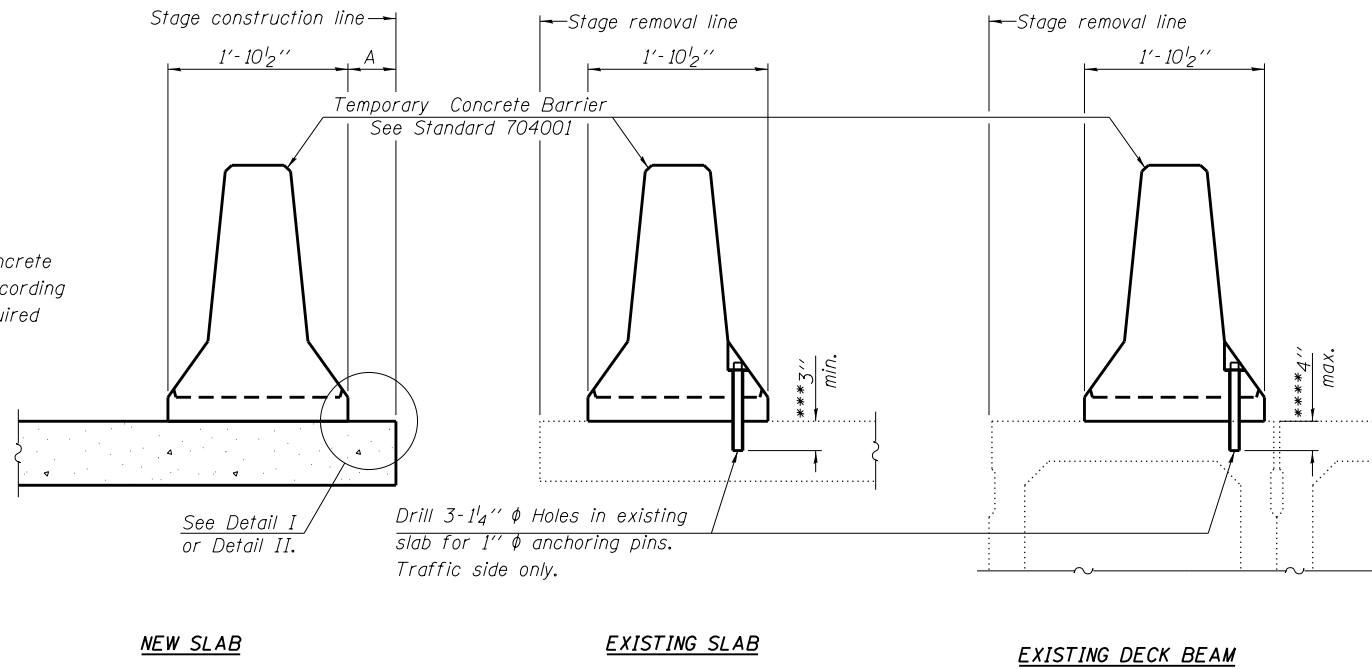
STAGE CONSTRUCTION DETAILS
STRUCTURE NO. 068-0512

SHEET NO. 3 OF 21 SHEETS

F.A.P. RTE. 777	SECTION 405B-1	COUNTY MONTGOMERY	TOTAL SHEETS 121	SHEET NO. 58
CONTRACT NO. 72D08				

ILLINOIS FED. AID PROJECT

When "A" is 3'-1" or less, the temporary concrete barrier shall be anchored to the new slab according to Detail I or Detail II. No anchorage is required when "A" is greater than 3'-1".



SECTIONS THRU SLAB OR DECK BEAM

NOTES

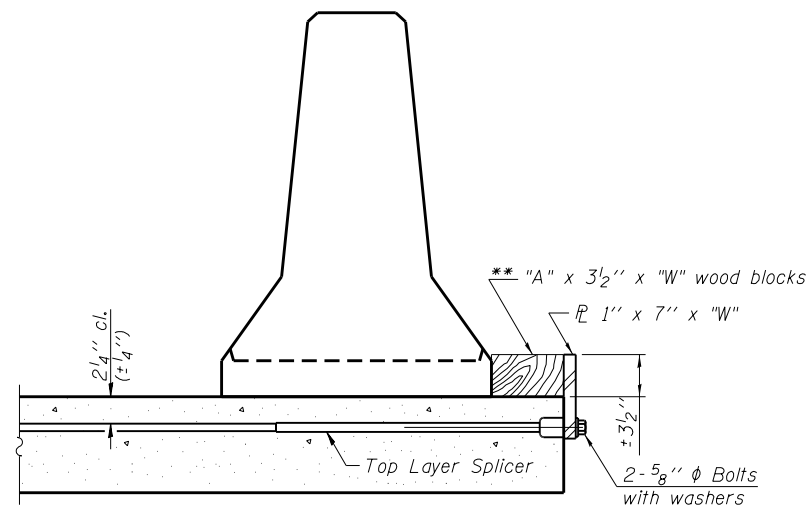
Detail I - With Bar Splicer or Couplers:
Connect one (1) 1" x 7" x "W" steel PL to the top layer of couplers with 2-5/8" phi bolts screwed to coupler at approximate C of each barrier panel.

Detail II - With Extended Reinforcement Bars:
Connect one (1) 1" x 7" x "W" steel PL to the concrete slab or concrete wearing surface with 2-5/8" phi Expansion Anchors or cast in place inserts spaced between the top layer of reinforcement at approximate C of each barrier panel.

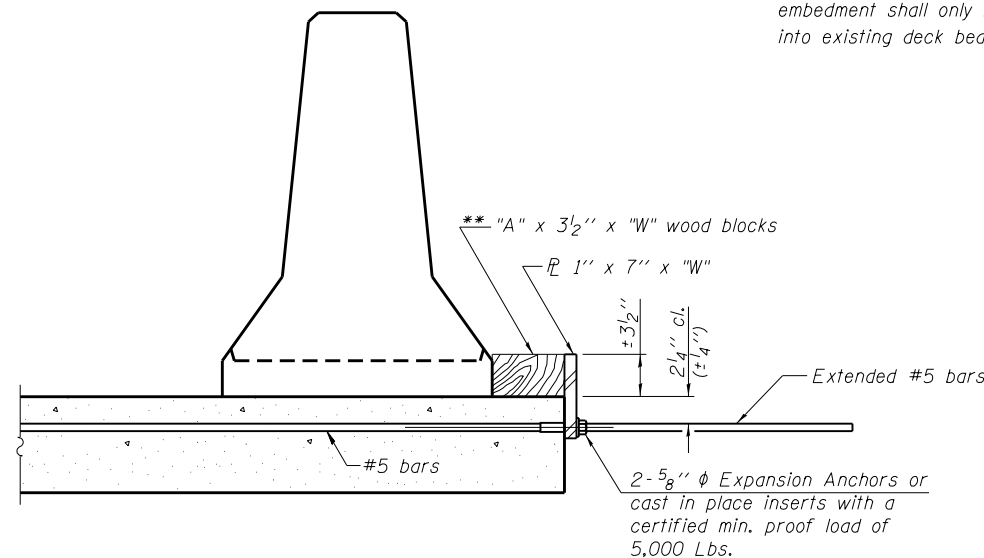
Cost of retainer assembly is included with Temporary Concrete Barrier. The 1" x 7" x "W" plate shall not be removed until stage II construction forms and all reinforcement bars are in place and the concrete is ready to be placed.

*** Dimension shown is minimum required embedment into concrete. If hot-mix asphalt wearing surface is present, minimum embedment shall be in addition to wearing surface depth.

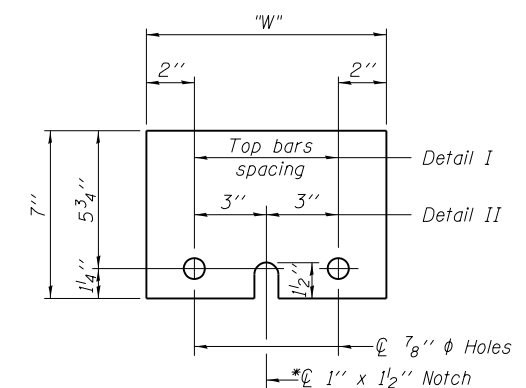
**** If existing deck beam is to remain in place after stage construction, embedment shall only be into wearing surface and not into existing deck beam concrete.



DETAIL I



DETAIL II



STEEL RETAINER PL 1" x 7" x "W"

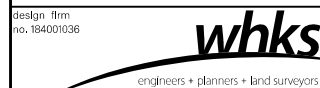
* Required only with Detail II

RETAINER ASSEMBLY

** Wood blocks may be omitted when required to provide minimum stage traffic lane width. When the wood blocks are omitted, the concrete barrier shall be in direct contact with the steel retainer plate.

R-27

1-12-15



USER NAME = dheber1ing	DESIGNED - BRD	REVISED
FILE NAME = 0680512-72D08.dgn	CHECKED - TJZ	REVISED
PLOT SCALE = 0:2" = 1' / in.	DRAWN - DLH	REVISED
PLOT DATE = 10/15/2015	CHECKED - BRD	REVISED

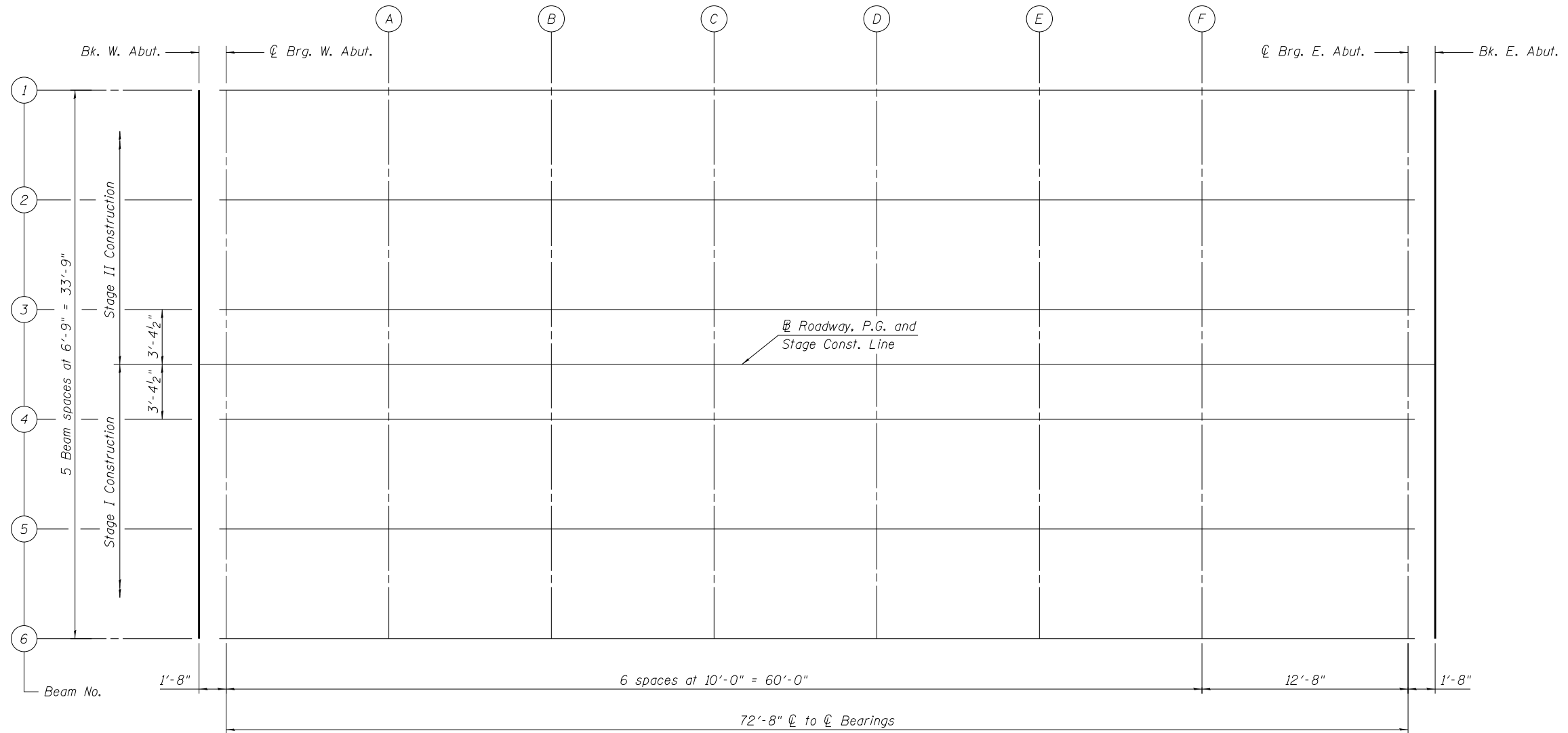
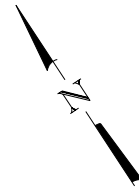
**STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION**

**TEMPORARY CONCRETE BARRIER FOR STAGE CONSTRUCTION
STRUCTURE NO. 068-0512**

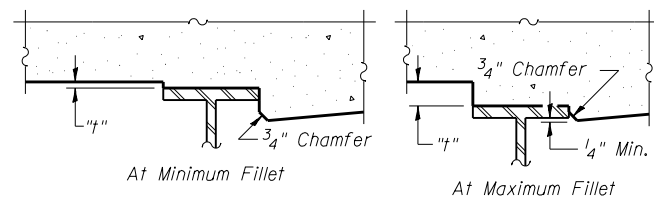
SHEET NO. 4 OF 21 SHEETS

F.A.P. RTE. 777	SECTION 405B-1	COUNTY MONTGOMERY	TOTAL SHEETS 121	SHEET NO. 59
			CONTRACT NO. 72D08	

ILLINOIS FED. AID PROJECT

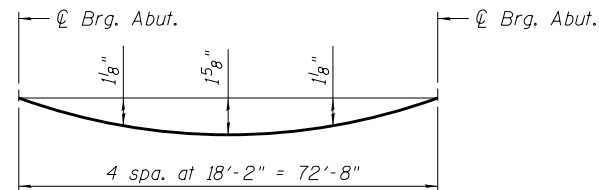


PLAN



To determine "t": After all structural steel has been erected, elevations of the top flanges of the beams shall be taken at intervals shown above. These elevations subtracted from the "Theoretical Grade Elevations Adjusted for Dead Load Deflection" shown on sheet 6 of 21, minus slab thickness, equals the fillet heights "t" above top flange of beams.

FILLET HEIGHTS



DEAD LOAD DEFLECTION DIAGRAM

(Includes weight of concrete only.)

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 21.

Note:
Work this sheet with sheet 6 of 21.

Design firm
no. 184001036



USER NAME = dheberling	DESIGNED - BRD	REVISED
FILE NAME = 0680512-72D08.dgn	CHECKED - TJZ	REVISED
PLOT SCALE = 1/2" = 1' / in.	DRAWN - DLH	REVISED
PLOT DATE = 10/15/2015	CHECKED - BRD	REVISED

**STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION**

**TOP OF SLAB LOCATION PLAN
STRUCTURE NO. 068-0512**

SHEET NO. 5 OF 21 SHEETS

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
777	405B-1	MONTGOMERY	121	60
CONTRACT NO. 72D08				

ILLINOIS FED. AID PROJECT

BEAM 1

Location	Station	Offset	Theoretical Grade Elevations	Theoretical Grade Elevations Adjusted For Dead Load Deflection
Bk. W. Abut.	309+92.70	-16.88	604.81	604.81
⊕ Brg. W. Abut.	309+94.37	-16.88	604.80	604.80
A	310+04.37	-16.88	604.75	604.80
B	310+14.37	-16.88	604.70	604.80
C	310+24.37	-16.88	604.65	604.77
D	310+34.37	-16.88	604.60	604.73
E	310+44.37	-16.88	604.55	604.66
F	310+54.37	-16.88	604.49	604.56
⊕ Brg. E. Abut.	310+67.03	-16.88	604.43	604.43
Bk. E. Abut.	310+68.70	-16.88	604.42	604.42

BEAM 2

Location	Station	Offset	Theoretical Grade Elevations	Theoretical Grade Elevations Adjusted For Dead Load Deflection
Bk. W. Abut.	309+92.70	-10.13	604.94	604.94
⊕ Brg. W. Abut.	309+94.37	-10.13	604.93	604.93
A	310+04.37	-10.13	604.88	604.94
B	310+14.37	-10.13	604.83	604.93
C	310+24.37	-10.13	604.78	604.91
D	310+34.37	-10.13	604.73	604.86
E	310+44.37	-10.13	604.68	604.79
F	310+54.37	-10.13	604.63	604.69
⊕ Brg. E. Abut.	310+67.03	-10.13	604.56	604.56
Bk. E. Abut.	310+68.70	-10.13	604.55	604.55

BEAM 3

Location	Station	Offset	Theoretical Grade Elevations	Theoretical Grade Elevations Adjusted For Dead Load Deflection
Bk. W. Abut.	309+92.70	-3.38	605.04	605.04
⊕ Brg. W. Abut.	309+94.37	-3.38	605.04	605.04
A	310+04.37	-3.38	604.99	605.04
B	310+14.37	-3.38	604.93	605.04
C	310+24.37	-3.38	604.88	605.01
D	310+34.37	-3.38	604.83	604.96
E	310+44.37	-3.38	604.78	604.89
F	310+54.37	-3.38	604.73	604.80
⊕ Brg. E. Abut.	310+67.03	-3.38	604.67	604.67
Bk. E. Abut.	310+68.70	-3.38	604.66	604.66

⊕ ROADWAY, P.G. AND STAGE CONSTRUCTION LINE

Location	Station	Offset	Theoretical Grade Elevations	Theoretical Grade Elevations Adjusted For Dead Load Deflection
Bk. W. Abut.	309+92.70	0.00	605.10	605.10
⊕ Brg. W. Abut.	309+94.37	0.00	605.09	605.09
A	310+04.37	0.00	605.04	605.09
B	310+14.37	0.00	604.99	605.09
C	310+24.37	0.00	604.94	605.06
D	310+34.37	0.00	604.89	605.02
E	310+44.37	0.00	604.83	604.94
F	310+54.37	0.00	604.78	604.85
⊕ Brg. E. Abut.	310+67.03	0.00	604.72	604.72
Bk. E. Abut.	310+68.70	0.00	604.71	604.71

BEAM 4

Location	Station	Offset	Theoretical Grade Elevations	Theoretical Grade Elevations Adjusted For Dead Load Deflection
Bk. W. Abut.	309+92.70	3.38	605.04	605.04
⊕ Brg. W. Abut.	309+94.37	3.38	605.04	605.04
A	310+04.37	3.38	604.99	605.04
B	310+14.37	3.38	604.93	605.04
C	310+24.37	3.38	604.88	605.01
D	310+34.37	3.38	604.83	604.96
E	310+44.37	3.38	604.78	604.89
F	310+54.37	3.38	604.73	604.80
⊕ Brg. E. Abut.	310+67.03	3.38	604.67	604.67
Bk. E. Abut.	310+68.70	3.38	604.66	604.66

BEAM 5

Location	Station	Offset	Theoretical Grade Elevations	Theoretical Grade Elevations Adjusted For Dead Load Deflection
Bk. W. Abut.	309+92.70	10.13	604.94	604.94
⊕ Brg. W. Abut.	309+94.37	10.13	604.93	604.93
A	310+04.37	10.13	604.88	604.94
B	310+14.37	10.13	604.83	604.93
C	310+24.37	10.13	604.78	604.91
D	310+34.37	10.13	604.73	604.86
E	310+44.37	10.13	604.68	604.79
F	310+54.37	10.13	604.63	604.69
⊕ Brg. E. Abut.	310+67.03	10.13	604.56	604.56
Bk. E. Abut.	310+68.70	10.13	604.55	604.55

BEAM 6

Location	Station	Offset	Theoretical Grade Elevations	Theoretical Grade Elevations Adjusted For Dead Load Deflection
Bk. W. Abut.	309+92.70	16.88	604.81	604.81
⊕ Brg. W. Abut.	309+94.37	16.88	604.80	604.80
A	310+04.37	16.88	604.75	604.80
B	310+14.37	16.88	604.70	604.80
C	310+24.37	16.88	604.65	604.77
D	310+34.37	16.88	604.60	604.73
E	310+44.37	16.88	604.55	604.66
F	310+54.37	16.88	604.49	604.56
⊕ Brg. E. Abut.	310+67.03	16.88	604.43	604.43
Bk. E. Abut.	310+68.70	16.88	604.42	604.42

Note:
Work this sheet with sheet 5 of 21.



USER NAME = dheber.ling	DESIGNED - BRD	REVISED
FILE NAME = 0680512-72D08.dgn	CHECKED - TJZ	REVISED
PLOT SCALE = 1/2" = 1' / in.	DRAWN - DLH	REVISED
PLOT DATE = 10/15/2015	CHECKED - BRD	REVISED

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

TOP OF SLAB ELEVATIONS
STRUCTURE NO. 068-0512

SHEET NO. 6 OF 21 SHEETS

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
777	405B-1	MONTGOMERY	121	61
CONTRACT NO. 72D08				
ILLINOIS FED. AID PROJECT				

NORTH EDGE OF SHOULDER

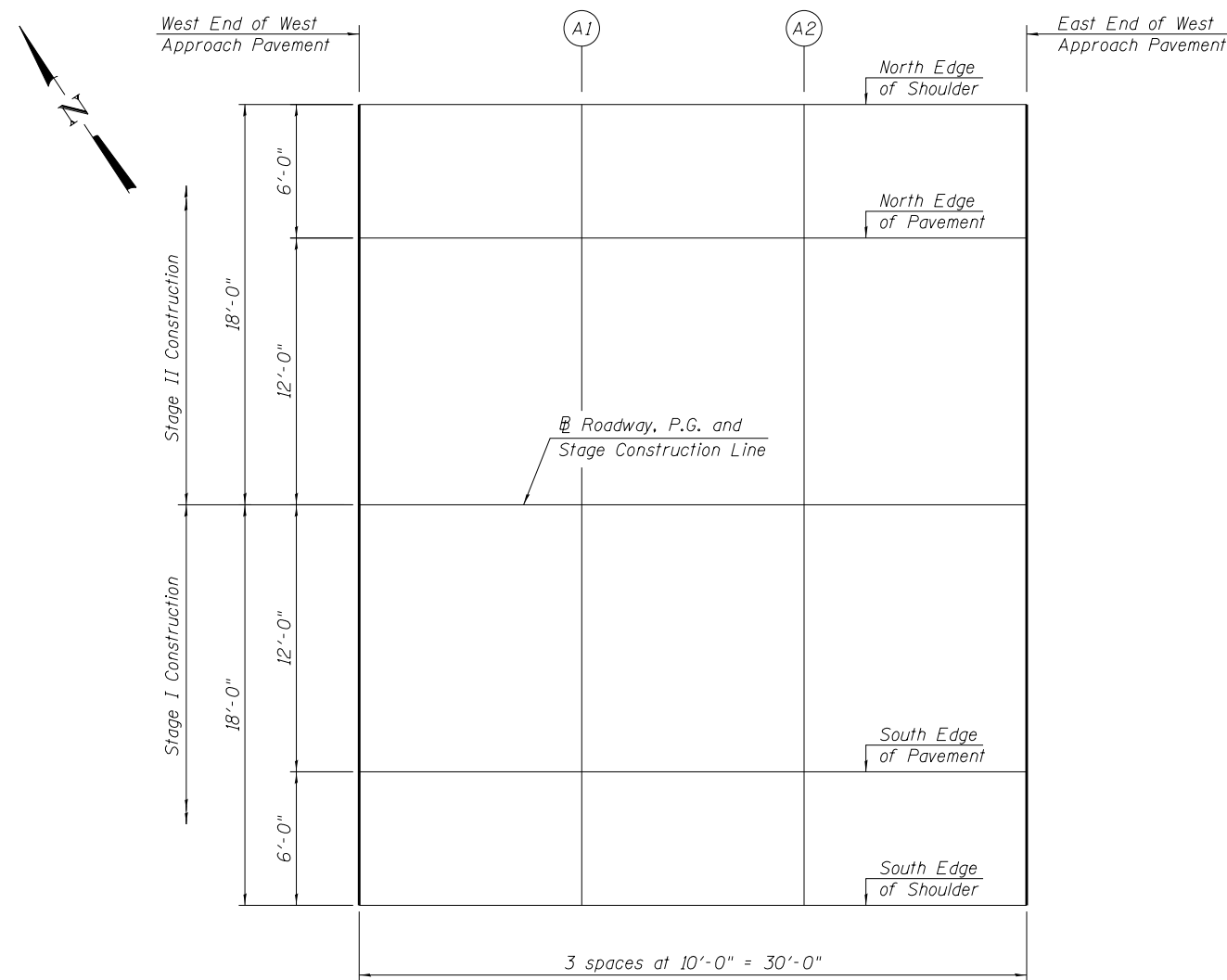
Location	Station	Offset	Theoretical Grade Elevations
W. End W. Appr. Pav't.	309+63.70	-18.00	604.93
A1	309+73.70	-18.00	604.88
A2	309+83.70	-18.00	604.83
E. End W. Appr. Pav't.	309+93.70	-18.00	604.78

NORTH EDGE OF PAVEMENT

Location	Station	Offset	Theoretical Grade Elevations
W. End W. Appr. Pav't.	309+63.70	-12.00	605.06
A1	309+73.70	-12.00	605.01
A2	309+83.70	-12.00	604.96
E. End W. Appr. Pav't.	309+93.70	-12.00	604.90

RD ROADWAY, PROFILE GRADE AND STAGE CONSTRUCTION LINE

Location	Station	Offset	Theoretical Grade Elevations
W. End W. Appr. Pav't.	309+63.70	0.00	605.24
A1	309+73.70	0.00	605.19
A2	309+83.70	0.00	605.14
E. End W. Appr. Pav't.	309+93.70	0.00	605.09



PLAN

SOUTH EDGE OF PAVEMENT

Location	Station	Offset	Theoretical Grade Elevations
W. End W. Appr. Pav't.	309+63.70	12.00	605.06
A1	309+73.70	12.00	605.01
A2	309+83.70	12.00	604.96
E. End W. Appr. Pav't.	309+93.70	12.00	604.90

SOUTH EDGE OF SHOULDER

Location	Station	Offset	Theoretical Grade Elevations
W. End W. Appr. Pav't.	309+63.70	18.00	604.93
A1	309+73.70	18.00	604.88
A2	309+83.70	18.00	604.83
E. End W. Appr. Pav't.	309+93.70	18.00	604.78

NORTH EDGE OF SHOULDER

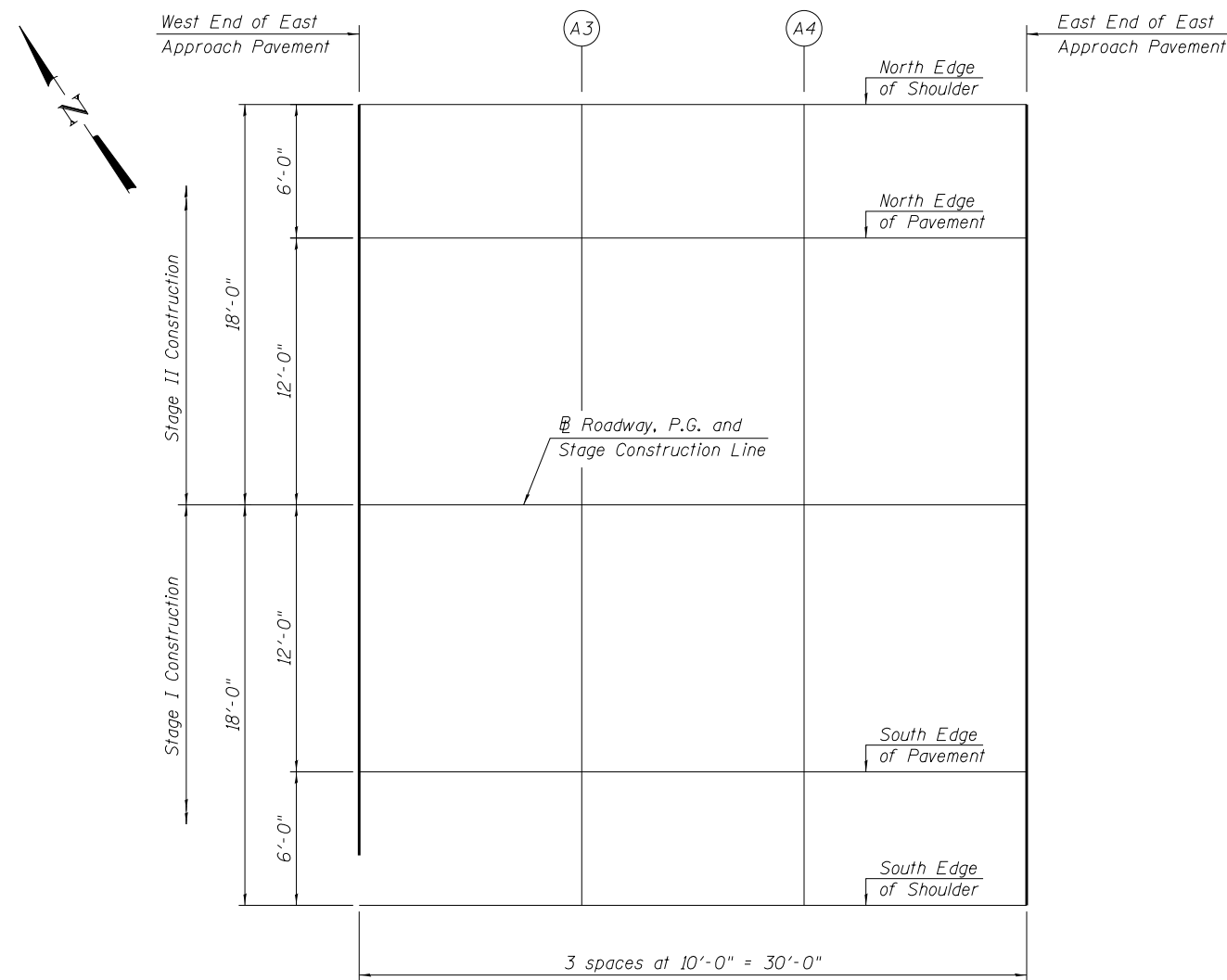
Location	Station	Offset	Theoretical Grade Elevations
W. End E. Appr. Pav't.	310+67.70	-18.00	604.40
A3	310+77.70	-18.00	604.36
A4	310+87.70	-18.00	604.32
E. End E. Appr. Pav't.	310+97.70	-18.00	604.29

NORTH EDGE OF PAVEMENT

Location	Station	Offset	Theoretical Grade Elevations
W. End E. Appr. Pav't.	310+67.70	-12.00	604.53
A3	310+77.70	-12.00	604.48
A4	310+87.70	-12.00	604.45
E. End E. Appr. Pav't.	310+97.70	-12.00	604.41

RD ROADWAY, PROFILE GRADE AND STAGE CONSTRUCTION LINE

Location	Station	Offset	Theoretical Grade Elevations
W. End E. Appr. Pav't.	310+67.70	0.00	604.72
A3	310+77.70	0.00	604.67
A4	310+87.70	0.00	604.63
E. End E. Appr. Pav't.	310+97.70	0.00	604.60



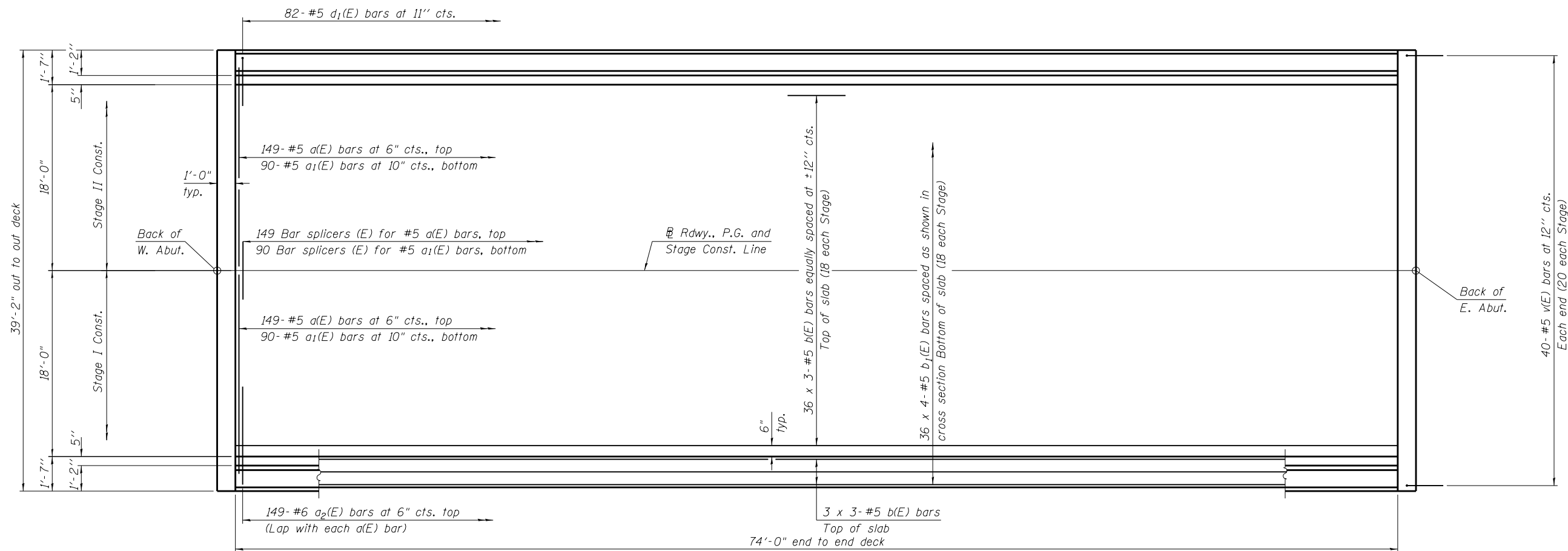
PLAN

SOUTH EDGE OF PAVEMENT

Location	Station	Offset	Theoretical Grade Elevations
W. End E. Appr. Pav't.	310+67.70	12.00	604.53
A3	310+77.70	12.00	604.48
A4	310+87.70	12.00	604.45
E. End E. Appr. Pav't.	310+97.70	12.00	604.41

SOUTH EDGE OF SHOULDER

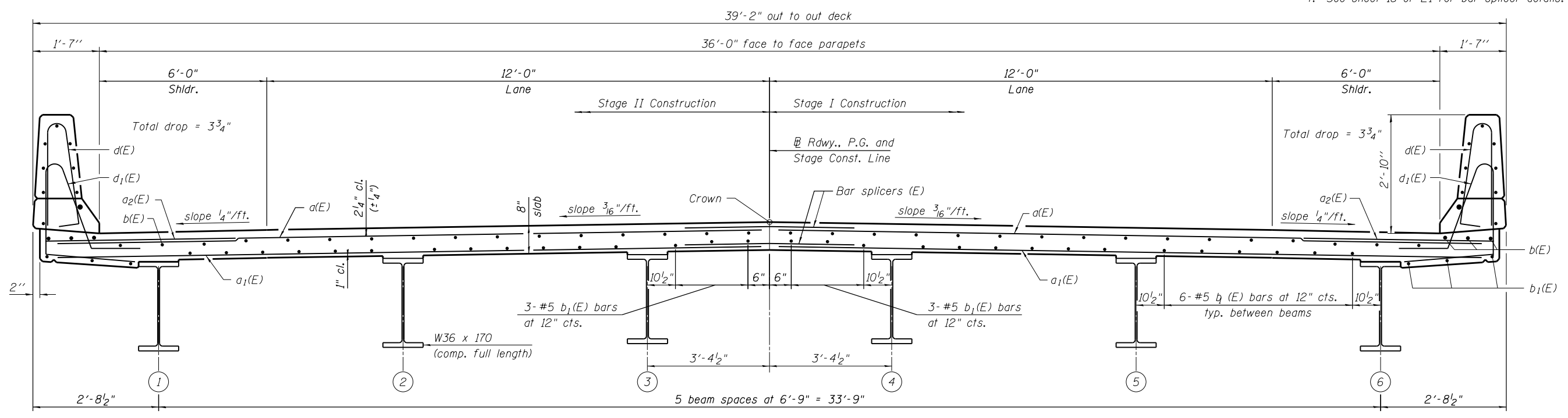
Location	Station	Offset	Theoretical Grade Elevations
W. End E. Appr. Pav't.	310+67.70	18.00	604.40
A3	310+77.70	18.00	604.36
A4	310+87.70	18.00	604.32
E. End E. Appr. Pav't.	310+97.70	18.00	604.29



MINIMUM BAR LAP
#5 bar = 2'-7"

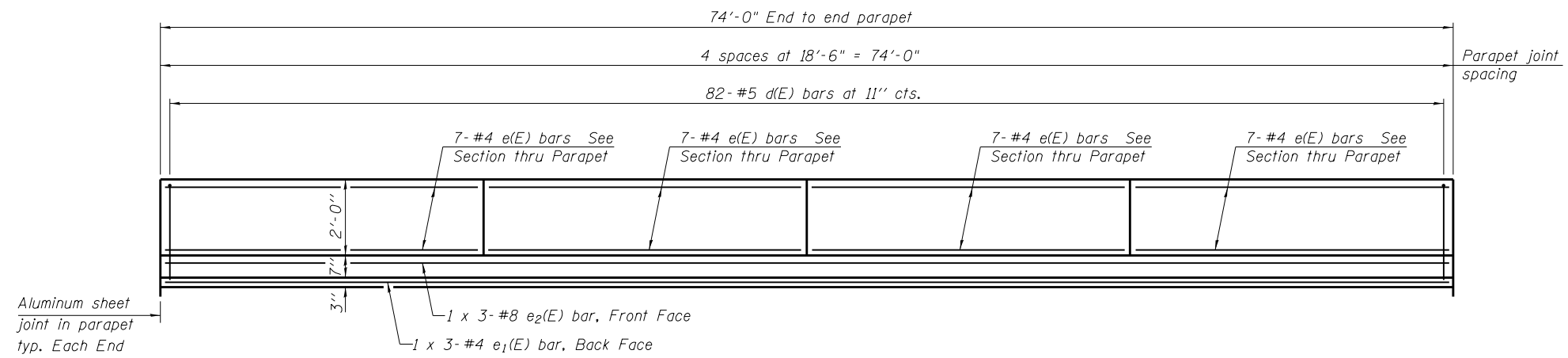
PLAN

- Notes:
1. See sheet 10 of 21 for superstructure details and Bill of Material.
 2. Bars indicated thus 36 x 3-#5 etc. indicates 36 lines of bars with 3 lengths per line.
 3. See sheet 10 of 21 for parapet reinforcement.
 4. See sheet 18 of 21 for bar splicer details.

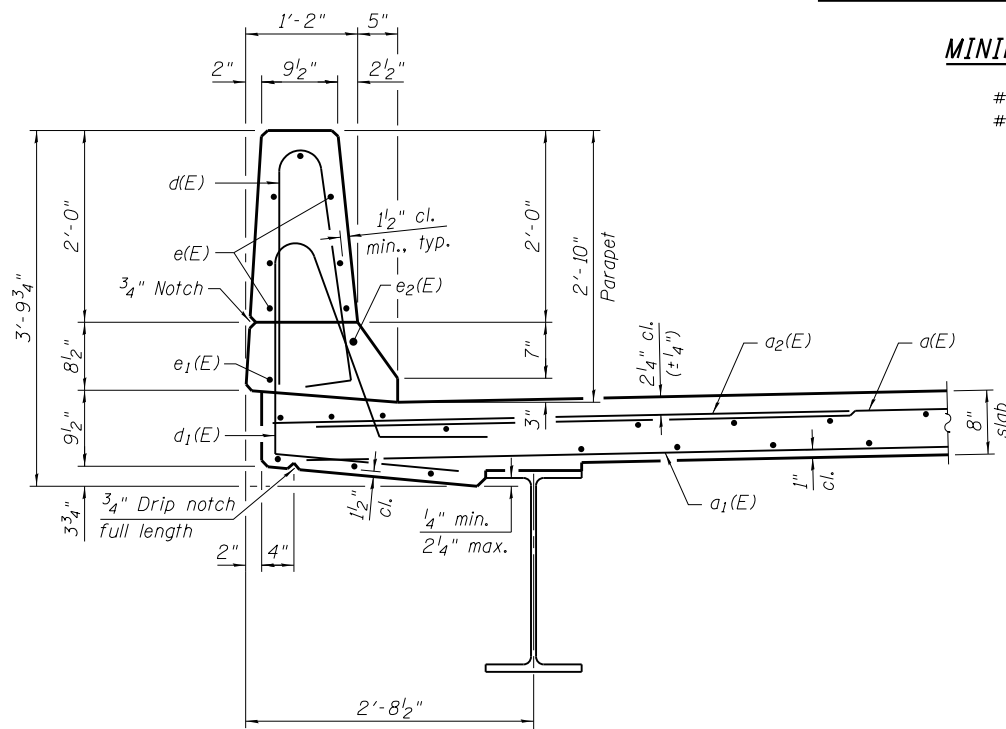


CROSS SECTION
(Looking East)

Design firm no. 184001036  engineers + planners + land surveyors	USER NAME = dheberling FILE NAME = 0680512-72D08.dgn PLOT SCALE = 0:2" = 1' / in. PLOT DATE = 10/15/2015	DESIGNED - BRD CHECKED - TJZ DRAWN - DLH CHECKED - BRD	REVISED REVISED REVISED REVISED	STATE OF ILLINOIS DEPARTMENT OF TRANSPORTATION	SUPERSTRUCTURE STRUCTURE NO. 068-0512 SHEET NO. 9 OF 21 SHEETS	F.A.P. RTE. 777 SECTION 405B-1 COUNTY MONTGOMERY TOTAL SHEETS 121 SHEET NO. 64 CONTRACT NO. 72D08	ILLINOIS FED. AID PROJECT
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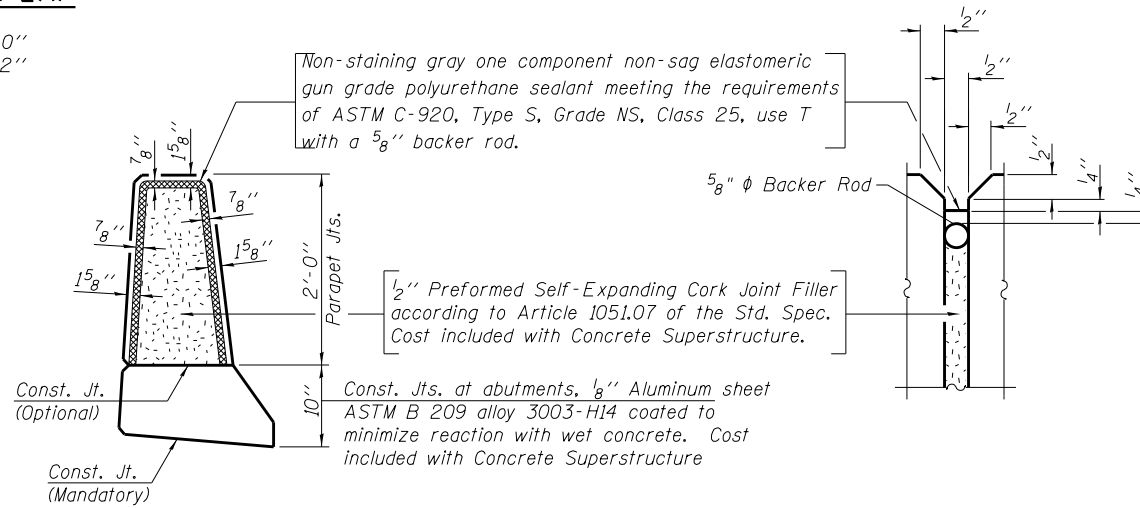
INSIDE ELEVATION OF PARAPET



SECTION THRU PARAPET

MINIMUM BAR LAP

(Parapet)
 #4 bar = 2'-0"
 #8 bar = 5'-2"

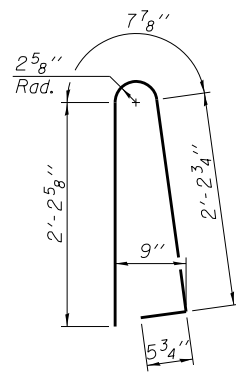


PARAPET JOINT DETAILS

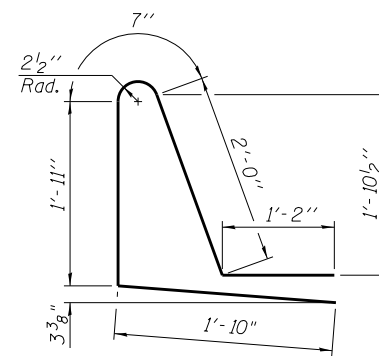
**SUPERSTRUCTURE
BILL OF MATERIAL**

Bar	No.	Size	Length	Shape
a(E)	298	#5	19'-1"	—
a1(E)	180	#5	18'-9"	—
a2(E)	298	#6	6'-6"	—
b(E)	126	#5	26'-4"	—
b1(E)	144	#5	20'-5"	—
d(E)	164	#5	5'-7"	⌒
d1(E)	164	#5	7'-6"	⌒
e(E)	56	#4	18'-2"	—
e1(E)	6	#4	25'-11"	—
e2(E)	6	#8	28'-0"	—
m(E)	20	#6	19'-3"	—
m1(E)	32	#6	6'-4"	—
m2(E)	16	#6	2'-4"	—
m4(E)	36	#5	4'-0"	—
s(E)	84	#5	7'-10"	⌒
s1(E)	84	#5	10'-2"	⌒
v(E)	80	#5	3'-1"	⌒
Concrete Superstructure			Cu. Yd.	121.5
Reinforcement Bars, Epoxy Coated			Pound	25,290
Bar Splicers			Each	257

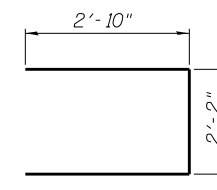
Bars indicated thus 1 x 3-#8 etc. indicates 1 line of bars with 3 lengths per line.



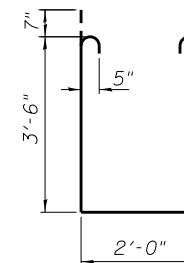
BAR d(E)



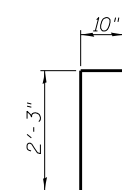
BAR d1(E)



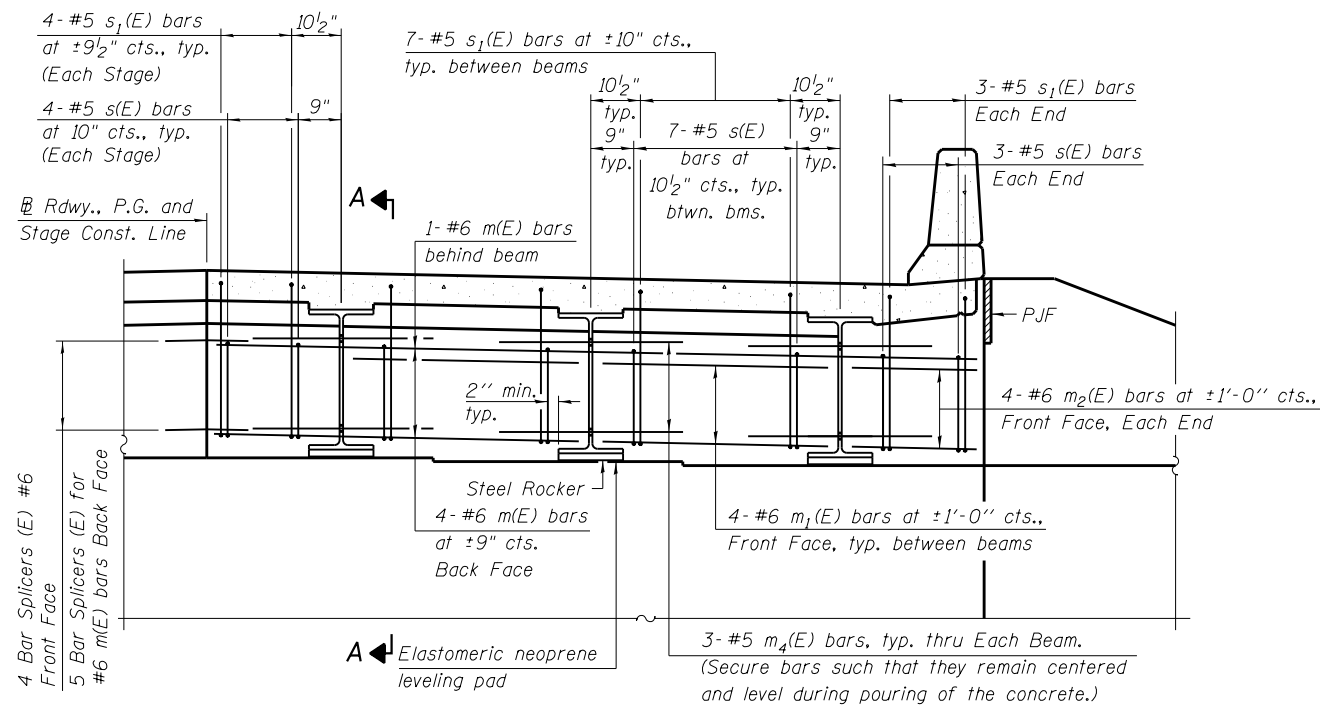
BAR s(E)



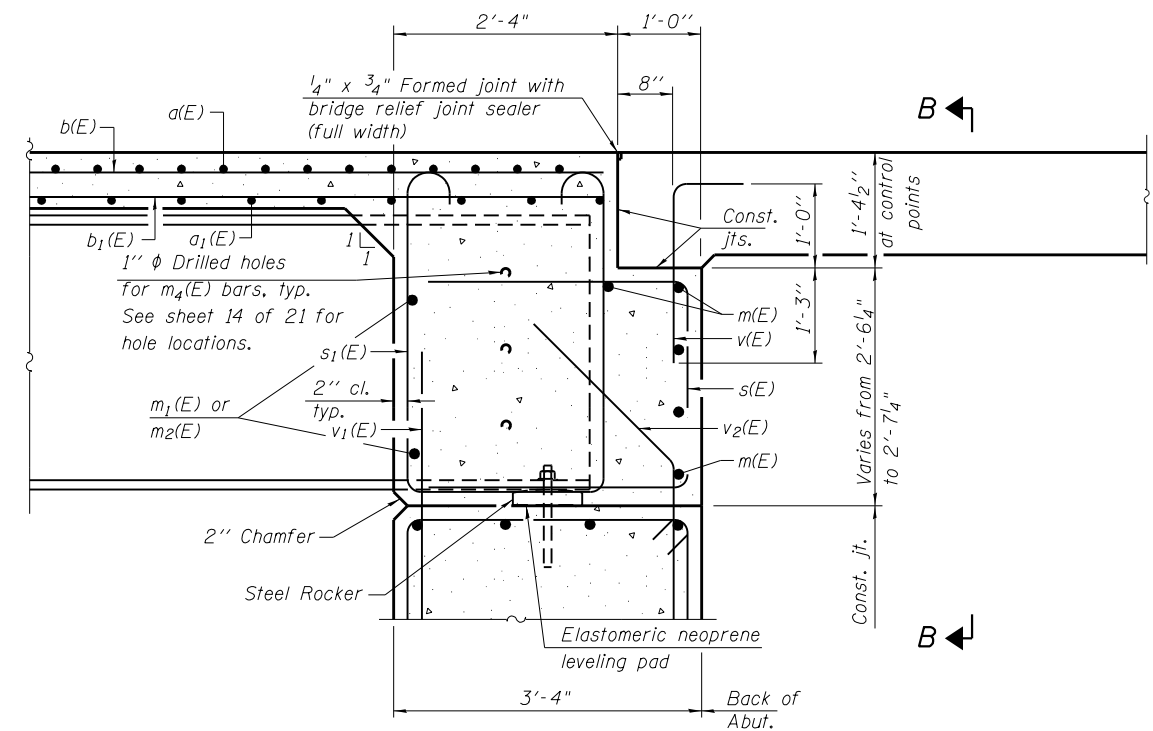
BAR s1(E)



BAR v(E)



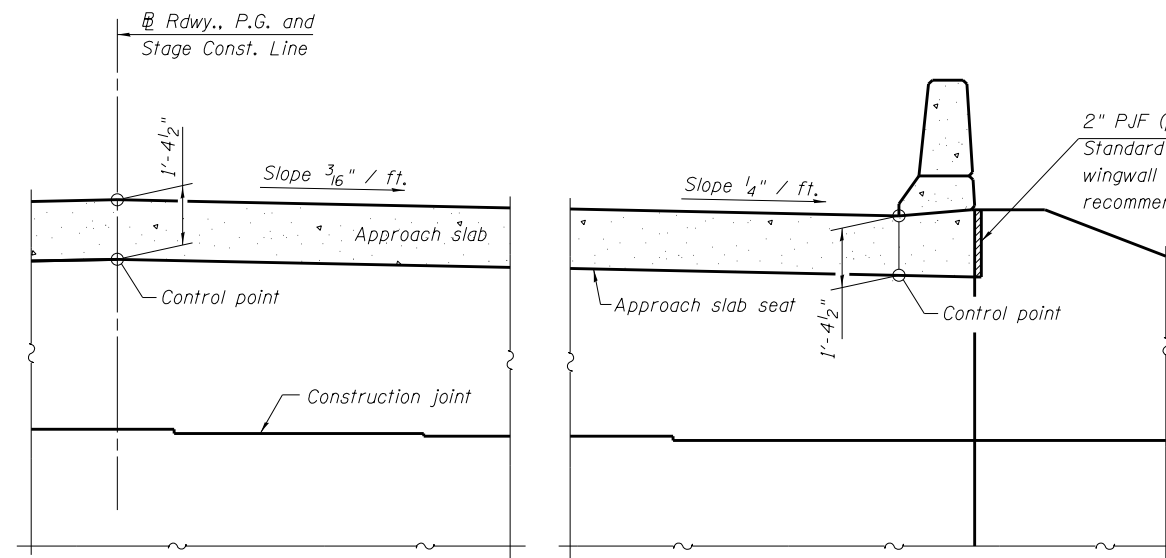
DIAPHRAGM ELEVATION AT ABUTMENT



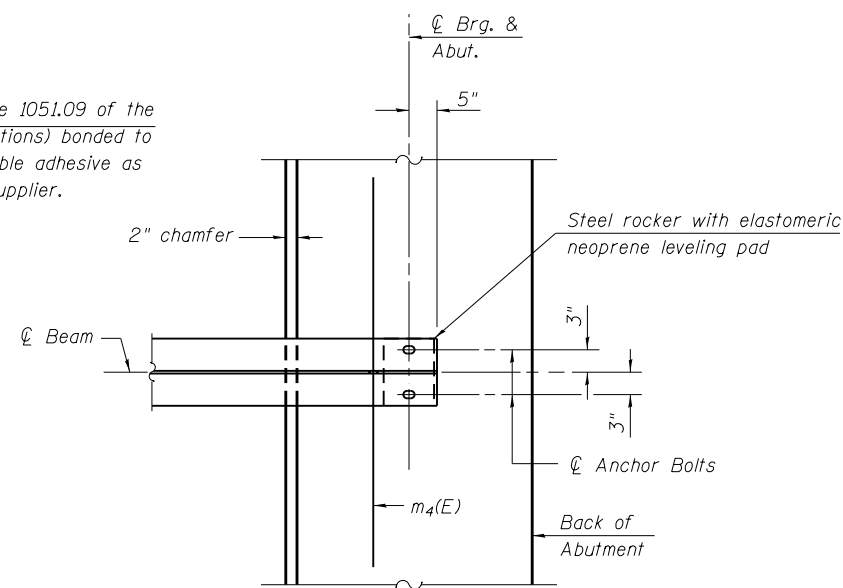
SECTION A-A

TOP OF CORBEL ELEVATIONS

Abutment	Location	Corbel Elevation
West Abutment	Inside face of north parapet	603.40
	Centerline roadway	603.71
	Inside face of south parapet	603.40
East Abutment	Inside face of north parapet	603.02
	Centerline roadway	603.34
	Inside face of south parapet	603.02



SECTION B-B



PARTIAL PLAN AT ABUTMENT
(Showing bottom flange of beam)

Notes:

1. Reinforcement bars in diaphragm are billed with superstructure on sheet 10 of 21.
2. Concrete in diaphragm is included with Concrete Superstructure on sheet 10 of 21.
3. For details of bars s(E), s1(E) and v(E) see sheet 10 of 21.
4. The approach slab seat shall have a constant slope determined from the control points shown.
5. For bearing details see sheet 15 of 21.

DSI-2440-0 8-31-12



USER NAME = dheberling	DESIGNED - BRD	REVISED
FILE NAME = 0680512-72D08.dgn	CHECKED - TJZ	REVISED
PLOT SCALE = 0:2 1/4" = 1"	DRAWN - DLH	REVISED
PLOT DATE = 10/15/2015	CHECKED - BRD	REVISED

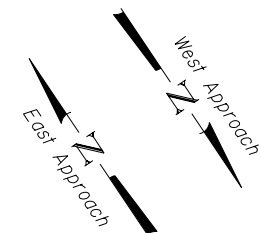
STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

INTEGRAL ABUTMENT DIAPHRAGM DETAILS
STRUCTURE NO. 068-0512

SHEET NO. 11 OF 21 SHEETS

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
777	405B-1	MONTGOMERY	121	66
CONTRACT NO. 72D08				

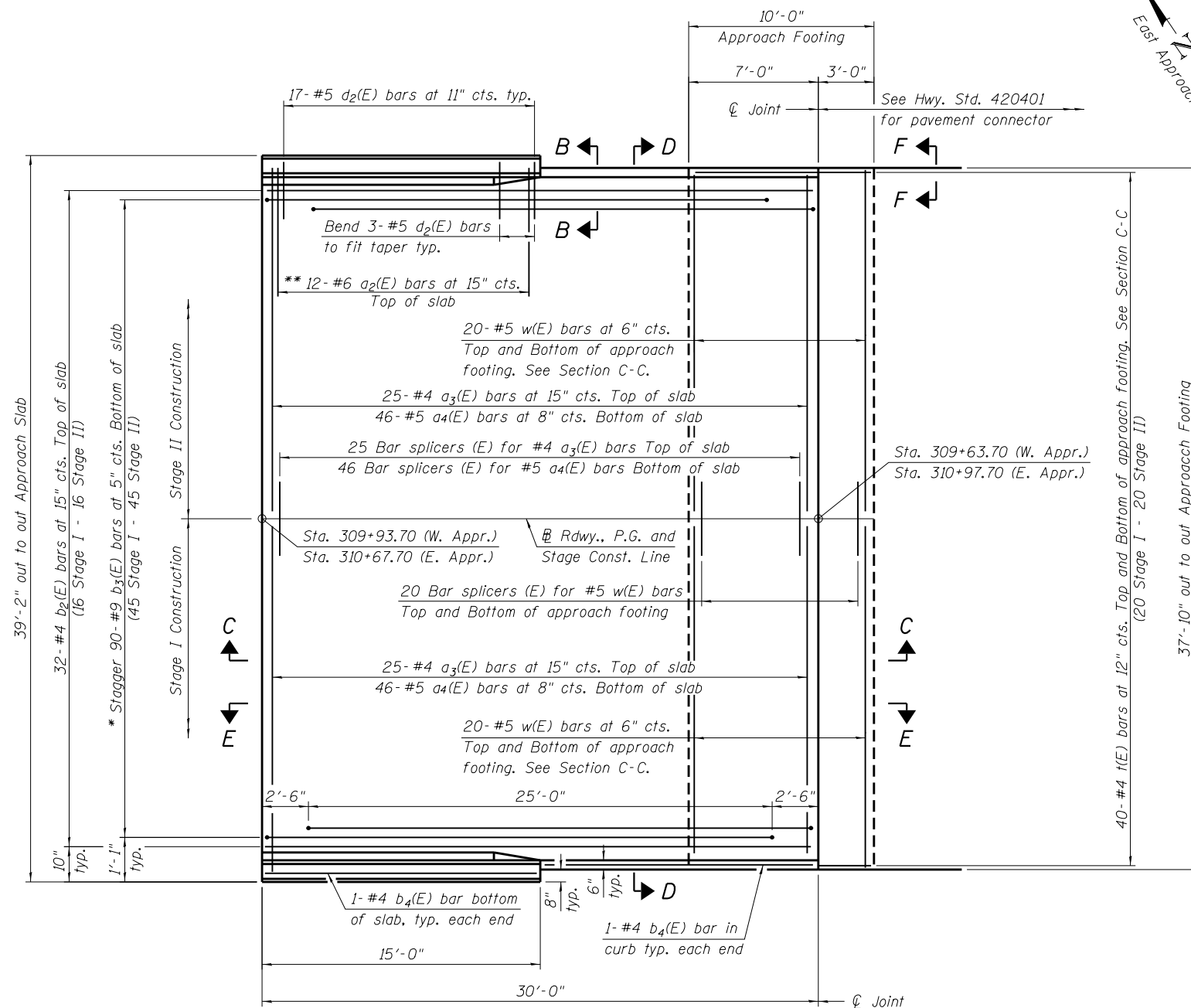
ILLINOIS FED. AID PROJECT



Notes:

- See sheet 13 of 21 for Sections C-C & D-D and View E-E.
- $a_3(E)$ and $a_4(E)$ bar spacings measured along Rdwy.
- The joint opening shall be determined per Article 520.04 except that on jointless structures, the distance described as the bridge length between the nearest fixed bearings each way from the joint shall be taken as half the bridge length plus the approach slab length. The minimum dimension shall be $1\frac{1}{2}$ " for installation purposes.

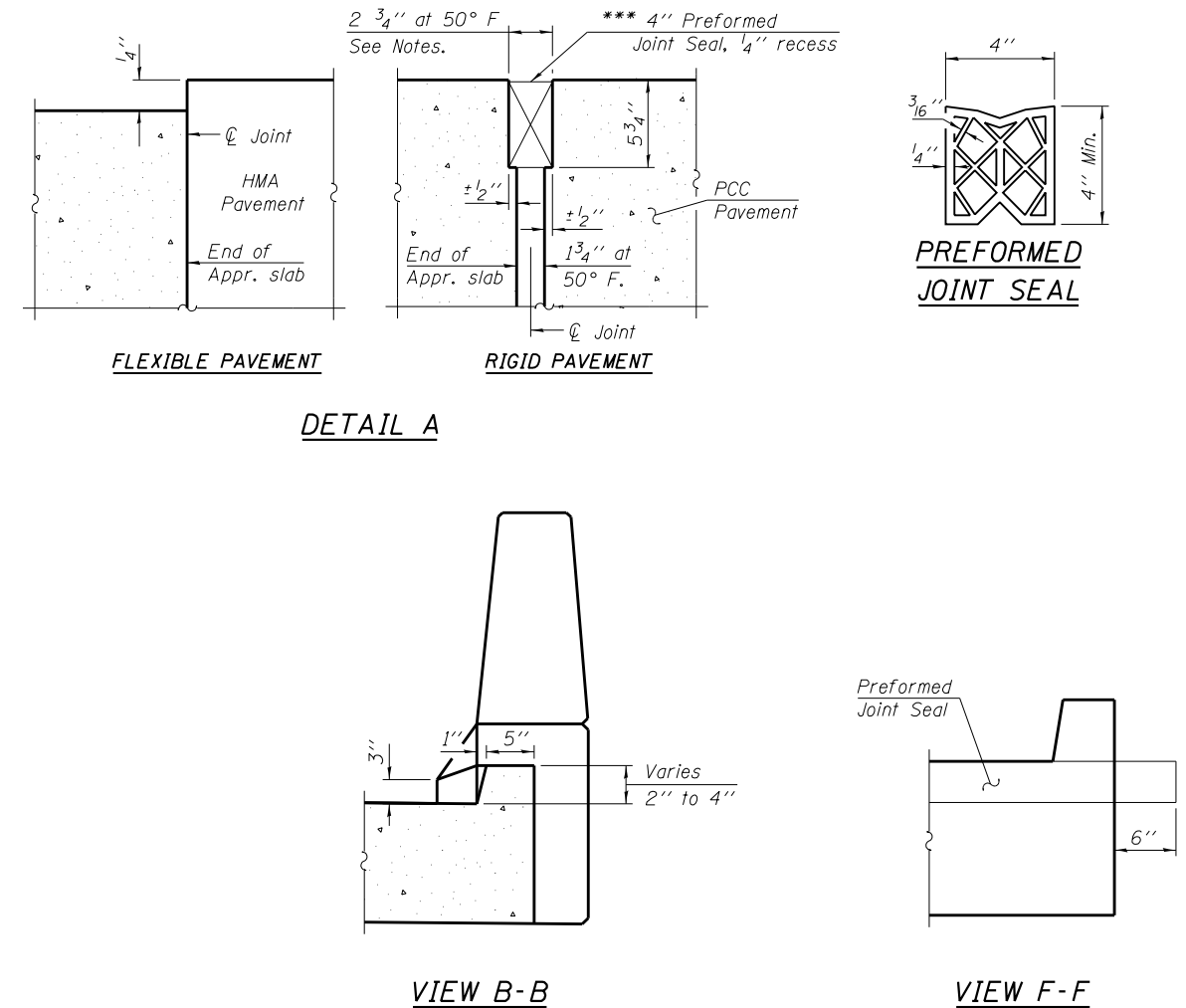
*** Cost included with Concrete Superstructure.



PLAN

(East Approach shown West Approach similar.)

- * Tilt #9 $b_3(E)$ bars as required to maintain clearance.
- ** Space between $a_3(E)$ bars, typ. each parapet.

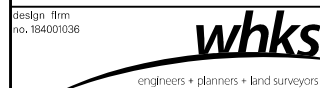


DETAIL A

VIEW B-B

VIEW F-F

(Sheet 1 of 2)



USER NAME = dheberling	DESIGNED - BRD	REVISED
FILE NAME = 0680512-72D08.dgn	CHECKED - TJZ	REVISED
PLOT SCALE = 0:2' / in.	DRAWN - DLH	REVISED
PLOT DATE = 10/15/2015	CHECKED - BRD	REVISED

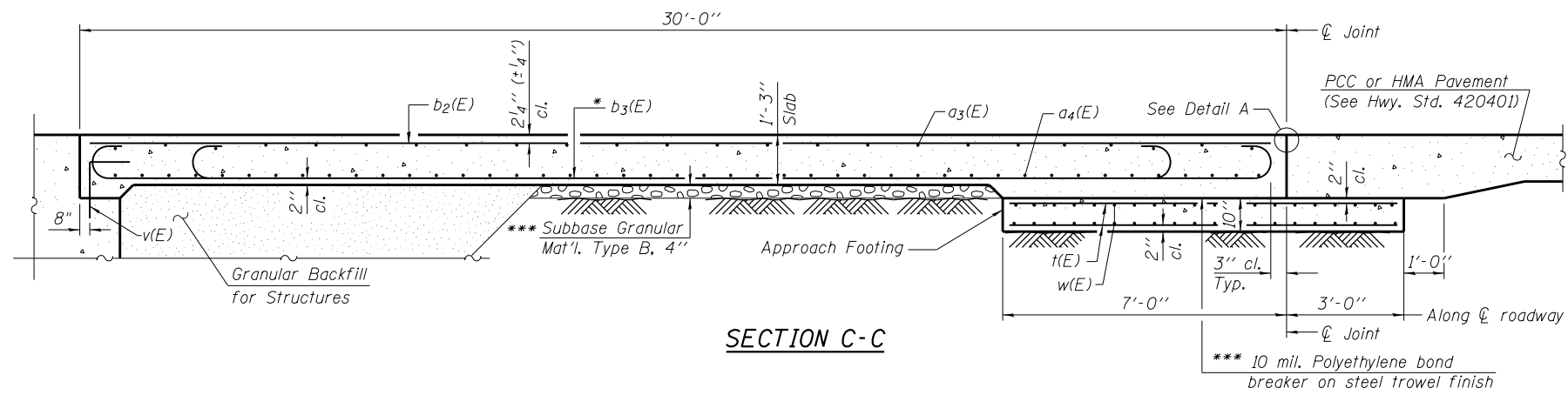
**STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION**

**BRIDGE APPROACH SLAB DETAILS
STRUCTURE NO. 068-0512**

SHEET NO. 12 OF 21 SHEETS

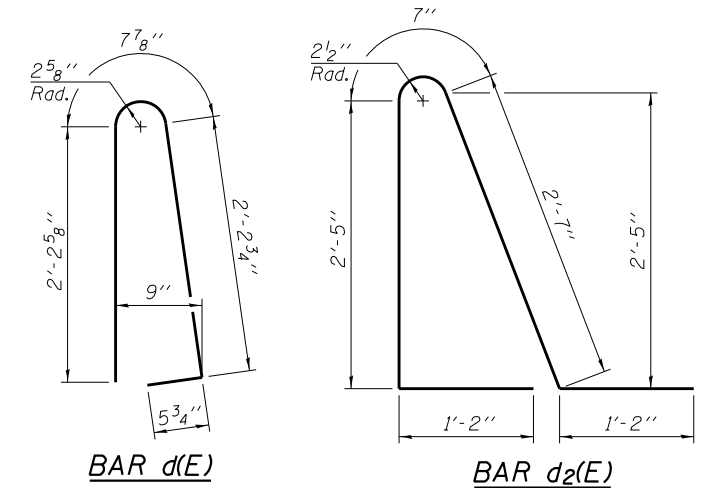
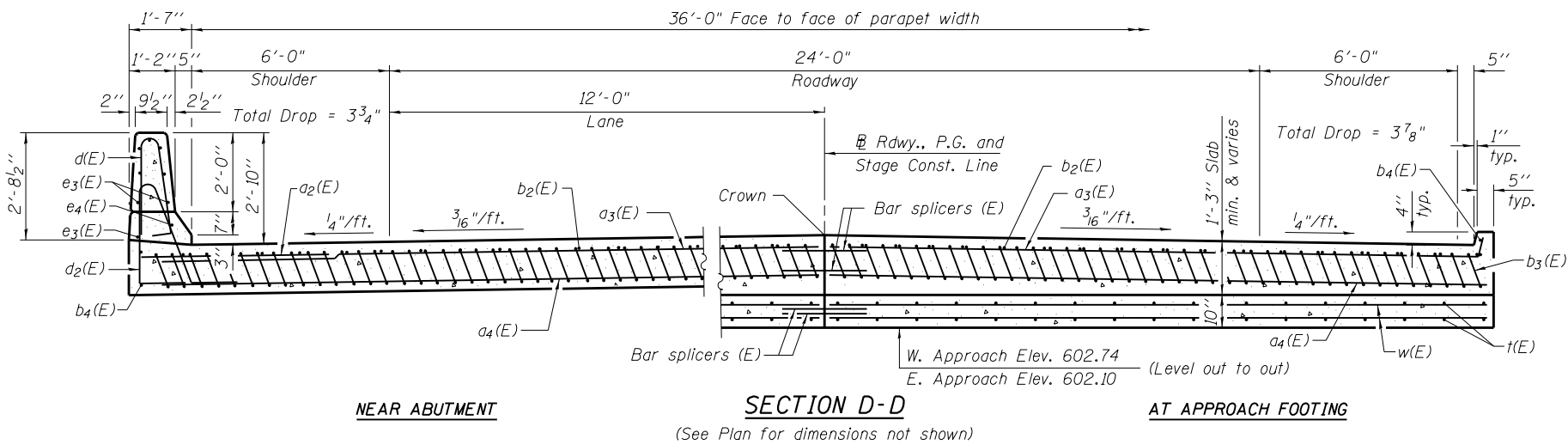
F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
777	405B-1	MONTGOMERY	121	67
CONTRACT NO. 72D08				

ILLINOIS FED. AID PROJECT



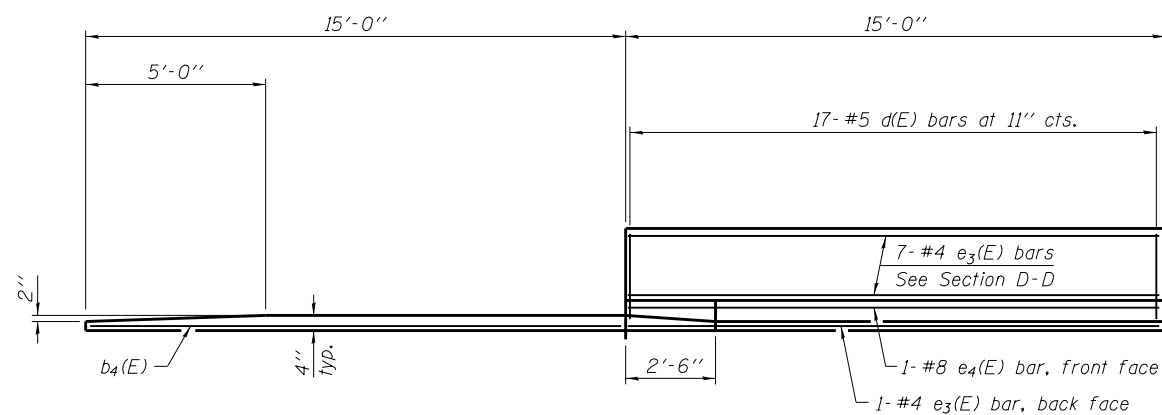
Notes:

1. See sheet 12 of 21 for Detail A and View B-B.
2. Approach slab and parapet concrete shall be paid for as Concrete Superstructure.
3. Approach footing concrete shall be paid for as Concrete Structures.
4. Reinforcement shall be paid for as Reinforcement Bars, Epoxy Coated.
5. For v(E) bar details, see sheet 10 of 21.
6. For bar splicer details, see sheet 18 of 21.
7. Cost of excavation for approach footing included with Concrete Structures.
8. For Granular Backfill for Structures and drainage treatment details, see sheet 2 of 21.
9. For additional parapet details, see sheet 10 of 21.

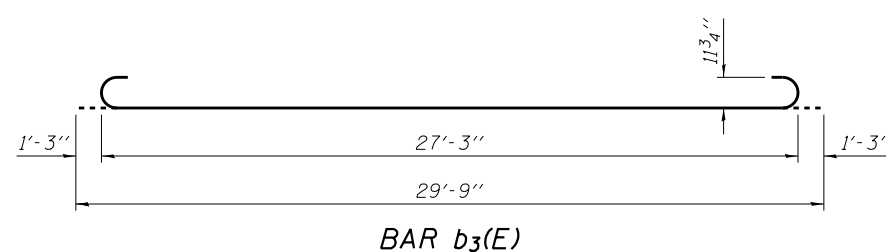
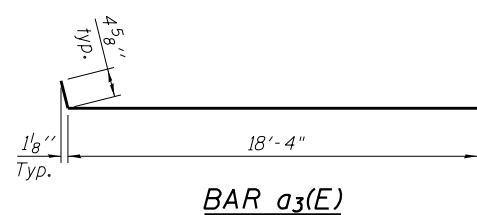


* Tilt #9 b3(E) bars as required to maintain clearance.

*** Cost included with Concrete Superstructure.



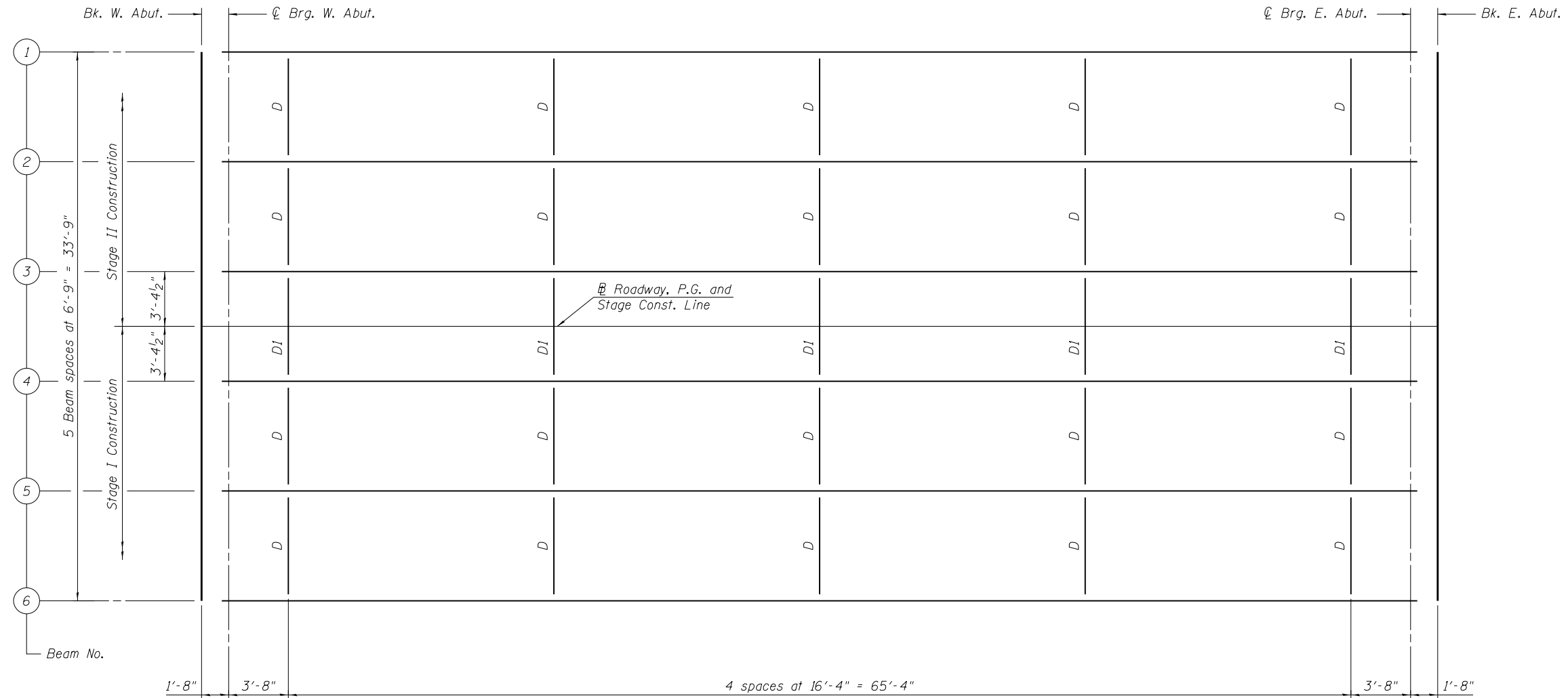
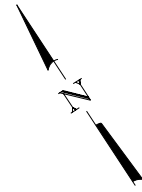
VIEW E-E



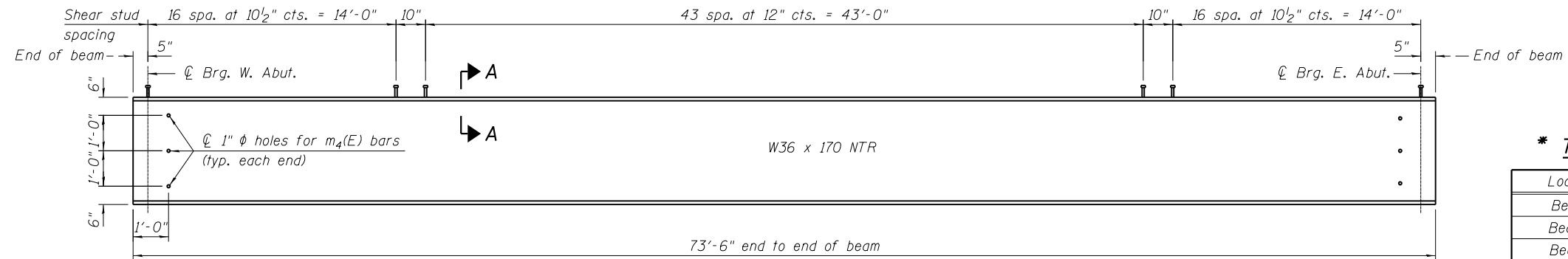
**TWO APPROACHES
BILL OF MATERIAL**

Bar	No.	Size	Length	Shape
a2(E)	48	#6	6'-6"	—
a3(E)	100	#4	18'-9"	—
a4(E)	184	#5	18'-7"	—
b2(E)	64	#4	29'-8"	—
b3(E)	180	#9	29'-9"	—
b4(E)	8	#4	14'-8"	—
d(E)	68	#5	5'-7"	⌋
d2(E)	68	#5	7'-11"	⌋
e3(E)	32	#4	14'-8"	—
e4(E)	4	#8	14'-8"	—
t(E)	160	#4	9'-8"	—
w(E)	160	#5	18'-7"	—
Concrete Structures		Cu. Yd.	23.4	
Concrete Superstructure		Cu. Yd.	119.6	
Reinforcement Bars, Epoxy Coated		Pound	30,410	
Bar Splicers		Each	222	

(Sheet 2 of 2)



PLAN



BEAM ELEVATION

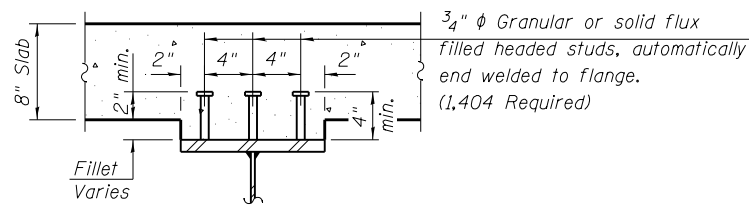
*** TOP OF BEAM ELEVATIONS**

Location	℄ Brg. W. Abut.	℄ Brg. E. Abut.
Beam 1	604.08	603.71
Beam 2	604.21	603.84
Beam 3	604.32	603.95
Beam 4	604.32	603.95
Beam 5	604.21	603.84
Beam 6	604.08	603.71

* For Fabrication Only.

Notes:

- All structural steel shown shall be AASHTO M270, Grade 50W.
- See Sheet 15 of 21 for Interior Diaphragm Details.
- See Sheet 15 of 21 for Anchor Bolt Placement.
- Load carrying components designated "NTR" shall conform to the Impact Testing Requirement, Zone 2.
- All diaphragms shall be installed as steel is erected and secured with erection pins and bolts except as otherwise noted.



SECTION A-A

Design firm
no. 184001036



USER NAME = dheberling	DESIGNED - BRD	REVISED
FILE NAME = 0680512-72D08.dgn	CHECKED - TJZ	REVISED
PLOT SCALE = 0:2 1/4" = 1"	DRAWN - DLH	REVISED
PLOT DATE = 10/15/2015	CHECKED - BRD	REVISED

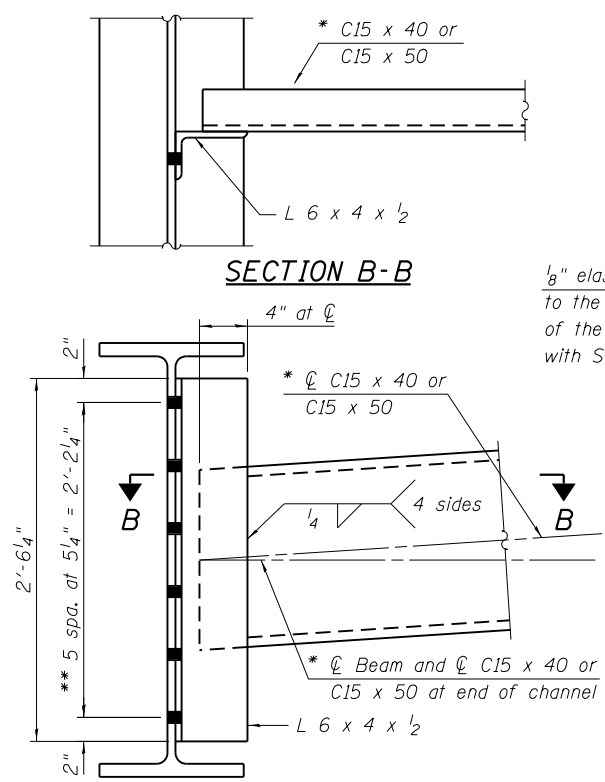
**STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION**

**FRAMING PLAN
STRUCTURE NO. 068-0512**

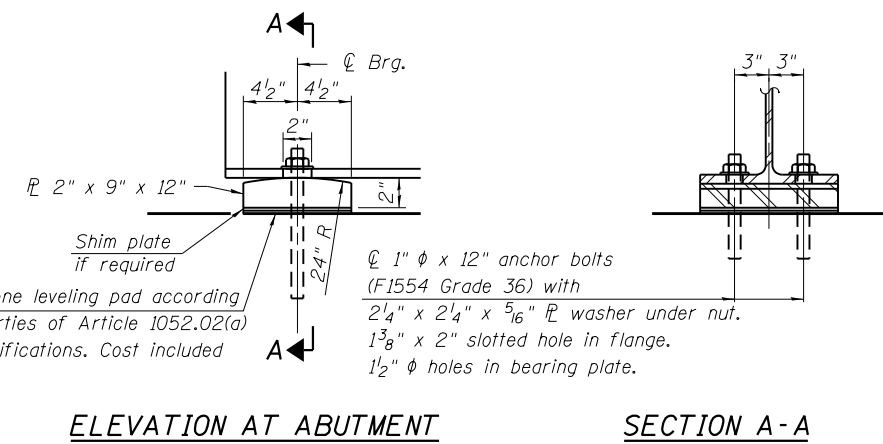
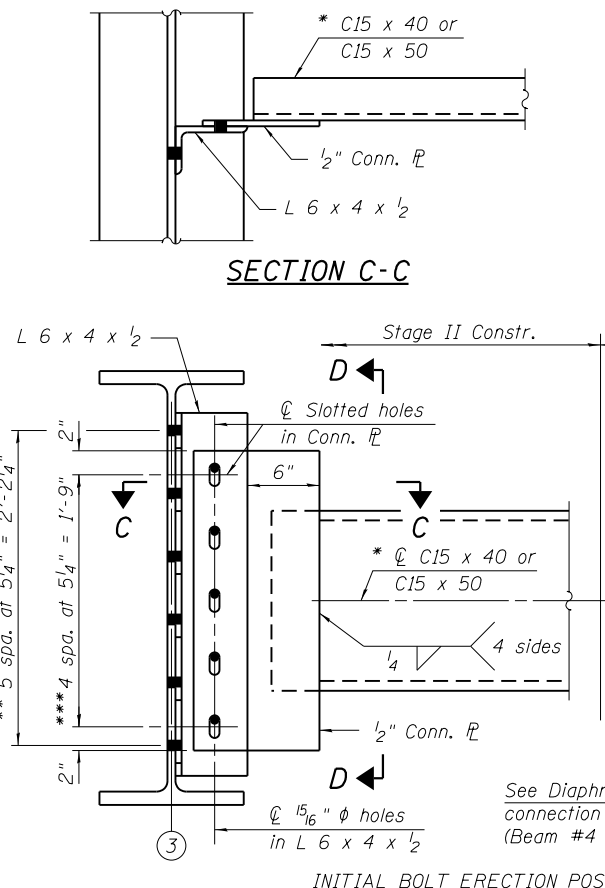
SHEET NO. 14 OF 21 SHEETS

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
777	405B-1	MONTGOMERY	121	69
CONTRACT NO. 72D08				

ILLINOIS FED. AID PROJECT



INTERIOR DIAPHRAGM "D" DETAILS



FIXED BEARING

1/8" elastomeric neoprene leveling pad according to the material properties of Article 1052.02(a) of the Standard Specifications. Cost included with Structural Steel.

- Notes:
- Anchor bolts shall be ASTM F1554 all-thread (or an Engineer-approved alternate material) of the grade(s) and diameter(s) specified. The corresponding specified grade of AASHTO M314 anchor bolts may be used in lieu of ASTM F1554.
 - Anchor bolts at fixed bearings may be either cast in place or installed in holes drilled after the supported member is in place.
 - Drilled and set anchor bolts shall be installed according to Article 521.06 of the Standard Specifications.
 - The bearing plates, diaphragms, and connecting angles shall conform to the requirements of AASHTO M 270 Grade 50W.
 - Two hardened washers required for each set of oversized and slotted holes.

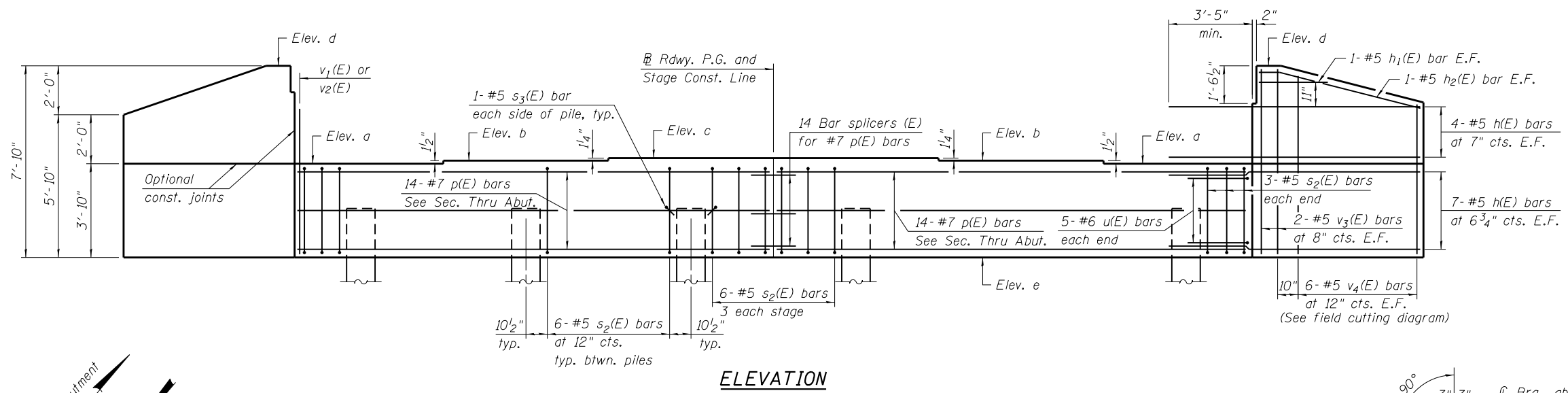
- * Alternate channels are permitted to facilitate material acquisition. Calculated weight of structural steel is based on the lighter section. The alternate, if utilized, shall be provided at no additional cost to the Department.
- ** 3/4" phi HS bolts, 1 5/16" phi holes.
- *** 3/4" phi H.S. bolts, on the south side of Beam 3 provide 1 3/16" x 1 7/8" vertical slotted holes in the L 6 x 4 x 1/2 at the web and in the connection PL. Bolts in slotted holes shall be finger tightened until Stage II pour is completed. Position slots so bolts move from one end with no concrete load to the opposite end under the deck load. The slotted holes in the L 6 x 4 x 1/2 and connection PL shall be positioned as shown to allow the bolts to move to the final erection position under deck load. The holes shall be positioned to allow maximum bolt displacement without laterally stressing the beams.

		0.5 Span
I_s	(in ⁴)	10500
$I_c(n)$	(in ⁴)	28043
$I_c(3n)$	(in ⁴)	20053
$I_c(cr)$	(in ⁴)	
S_s	(in ³)	581
$S_c(n)$	(in ³)	868
$S_c(3n)$	(in ³)	774
$S_c(cr)$	(in ³)	
DC1	(k/ft)	0.91
M _{DC1}	(k)	597
DC2	(k/ft)	0.15
M _{DC2}	(k)	99
DW	(k/ft)	0.30
M _{DW}	(k)	198
$M_L + IM$	(k)	1059
M_u (Strength I)	(k)	3021
$\phi_r M_n$	(k)	4273
f_s DC1	(ksi)	12.30
f_s DC2	(ksi)	1.50
f_s DW	(ksi)	3.10
f_s (L+IM)	(ksi)	14.64
f_s (Service II)	(ksi)	35.98
$0.95R_n F_y f$	(ksi)	47.5
f_s (Total)(Strength I)	(ksi)	
$\phi_r F_n$	(ksi)	
V_f	(k)	23.2

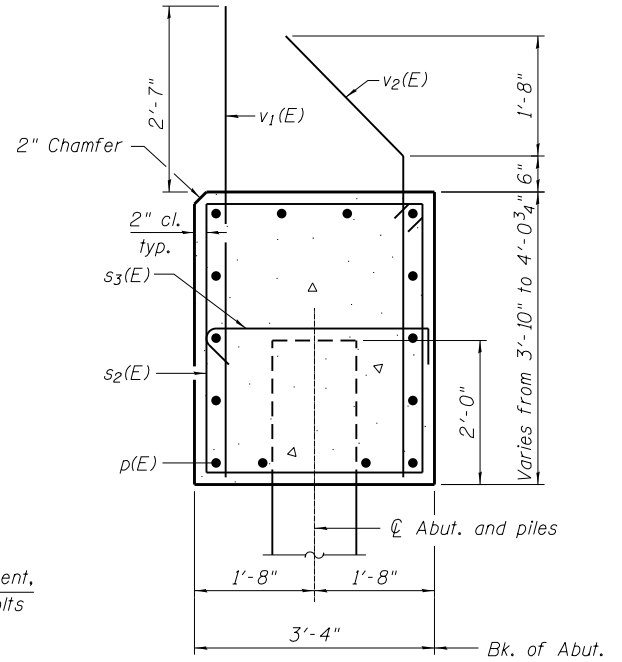
		Abut.
R _{DC1}	(k)	33.71
R _{DC2}	(k)	5.45
R _{DW}	(k)	10.90
$R_L + IM$	(k)	77.37
R _{Total}	(k)	127.42

- I_s, S_s : 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 (in⁴ and in³).
- $I_c(n), S_c(n)$: Composite moment of inertia and section modulus of the steel and deck based upon the modular ratio, "n", used for computing f_s (Total-Strength I, and Service II) in uncracked sections due to short-term composite live loads (in⁴ and in³).
- $I_c(3n), S_c(3n)$: Composite moment of inertia and section modulus of the steel and deck based upon 3 times the modular ratio, "3n", used for computing f_s (Total-Strength I, and Service II) in uncracked sections, due to long-term composite (superimposed) dead loads (in⁴ and in³).
- $I_c(cr), S_c(cr)$: Composite moment of inertia and section modulus of the steel and longitudinal deck reinforcement, used for computing f_s (Total-Strength I and Service II) in cracked sections, due to both short-term composite live loads and long-term composite (superimposed) dead loads (in⁴ and in³).
- DC1: Un-factored non-composite dead load (kips/ft.).
- M_{DC1}: Un-factored moment due to non-composite dead load (kip-ft.).
- DC2: Un-factored long-term composite (superimposed excluding future wearing surface) dead load (kips/ft.).
- 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 surface only) dead load (kips/ft.).
- M_{DW}: Un-factored moment due to long-term composite (superimposed future wearing surface only) dead load (kip-ft.).
- $M_L + IM$: Un-factored live load moment plus dynamic load allowance (impact) (kip-ft.).
- M_u (Strength I): Factored design moment (kip-ft.).
- $1.25 (M_{DC1} + M_{DC2}) + 1.5 M_{DW} + 1.75 M_L + IM$
- $\phi_r M_n$: Compact composite positive moment capacity computed according to Article 6.10.7.1 or non-slender negative moment capacity according to Article A6.1.1 or A6.1.2 (kip-ft.).
- f_s DC1: Un-factored stress at edge of flange for controlling steel flange due to vertical non-composite dead loads as calculated below (ksi).
- M_{DC1} / S_{nc}
- f_s DC2: Un-factored stress at edge of flange for controlling steel flange due to vertical composite dead loads as calculated below (ksi).
- $M_{DC2} / S_c(3n)$ or $M_{DC2} / S_c(cr)$ as applicable.
- f_s DW: Un-factored stress at edge of flange for controlling steel flange due to vertical composite future wearing surface loads as calculated below (ksi).
- $M_{DW} / S_c(3n)$ or $M_{DW} / S_c(cr)$ as applicable.
- f_s (L+IM): Un-factored stress at edge of flange for controlling steel flange due to vertical composite live load plus impact loads as calculated below (ksi).
- $M_L + IM / S_c(n)$ or $M_L + IM / S_c(cr)$ as applicable.
- f_s (Service II): Sum of stresses as computed below (ksi).
- $f_{sDC1} + f_{sDC2} + f_{sDW} + 1.3 f_s (L + IM)$
- $0.95R_n F_y f$: Composite stress capacity for Service II loading according to Article 6.10.4.2 (ksi).
- f_s (Total)(Strength I): Sum of stresses as computed below on non-compact section (ksi).
- $1.25 (f_{sDC1} + f_{sDC2}) + 1.5 f_{sDW} + 1.75 f_s (L + IM)$
- $\phi_r F_n$: Non-Compact composite positive or negative stress capacity for Strength I loading according to Article 6.10.7 or 6.10.8 (ksi).
- V_f : Maximum factored shear range in span computed according to Article 6.10.10.

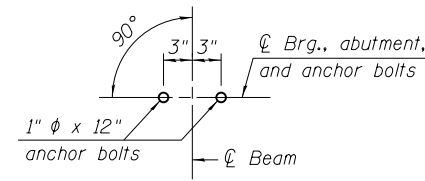
INTERIOR DIAPHRAGM "D1" DETAILS



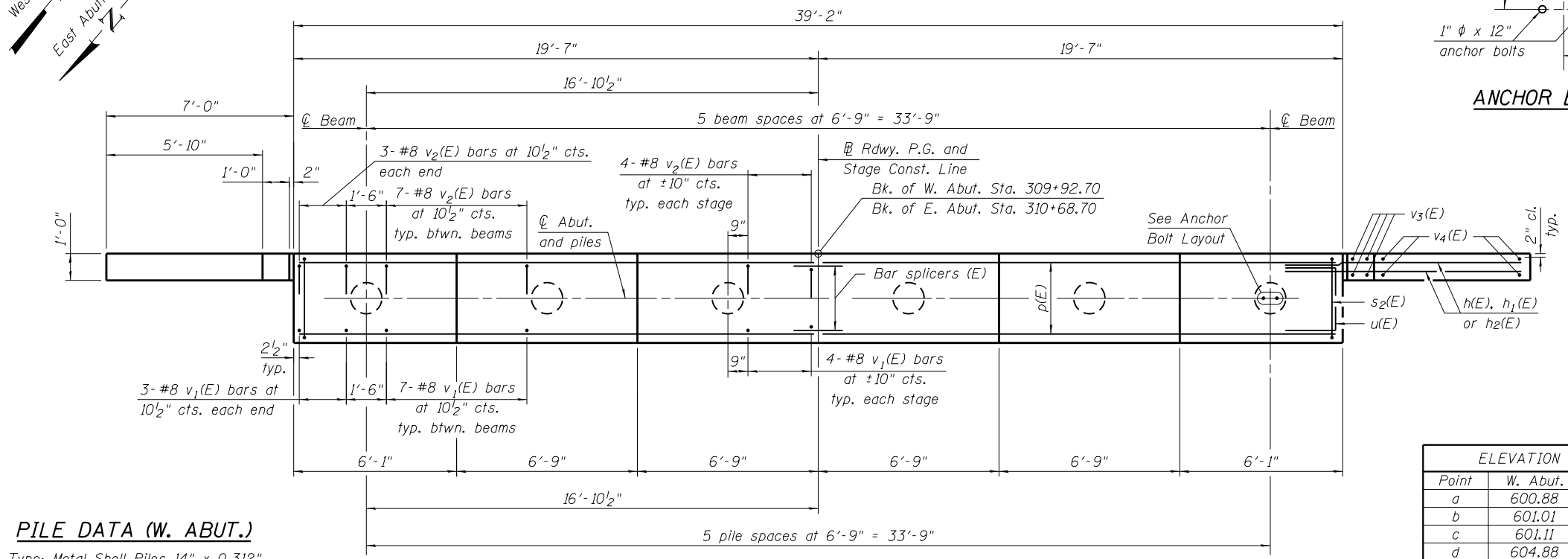
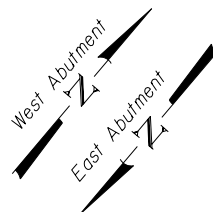
ELEVATION



SECTION THRU ABUTMENT



ANCHOR BOLT LAYOUT

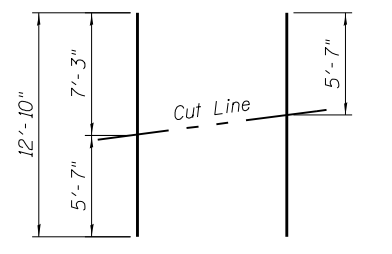


PLAN

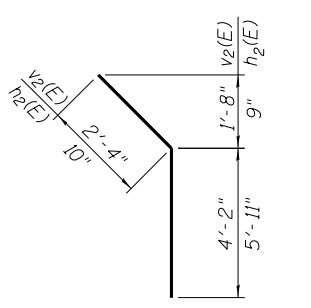
ELEVATION TABLE		
Point	W. Abut.	E. Abut.
a	600.88	600.51
b	601.01	600.64
c	601.11	600.74
d	604.88	604.51
e	597.04	596.67

PILE DATA (W. ABUT.)
 Type: Metal Shell Piles 14" x 0.312"
 Nominal Required Bearing: 513k
 Factored Resistance Available: 282k
 Est. Length: 72 ft.
 No. Production Piles: 5
 No. Test Piles: 1
 Pile Shoes: 6

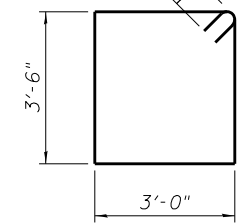
PILE DATA (E. ABUT.)
 Type: Metal Shell Piles 14" x 0.312"
 Nominal Required Bearing: 513k
 Factored Resistance Available: 282k
 Est. Length: 67 ft.
 No. Production Piles: 5
 No. Test Piles: 1



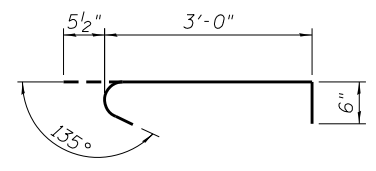
FIELD CUTTING DIAGRAM
 Order v4(E) full length. Cut as shown and use remainder of bars in opposite face.



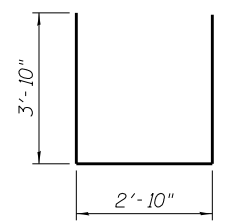
BAR v2(E) & h2(E)



BAR s2(E)



BAR s3(E)

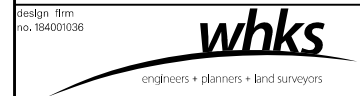


BAR u(E)

**TWO ABUTMENTS
 BILL OF MATERIALS**

Bar	No.	Size	Length	Shape
h(E)	88	#5	10'-3"	—
h1(E)	8	#5	3'-9"	—
h2(E)	8	#5	6'-9"	—
p(E)	56	#7	19'-3"	—
s2(E)	72	#5	13'-11"	□
s3(E)	24	#5	4'-0"	└
u(E)	20	#6	10'-6"	□
v1(E)	84	#8	6'-3"	—
v2(E)	84	#8	6'-6"	—
v3(E)	16	#5	7'-6"	—
v4(E)	24	#5	12'-10"	—
Structure Excavation			Cu. Yd.	266
Concrete Structures			Cu. Yd.	45.6
Reinforcement Bars, Epoxy Coated			Pound	8,000
Bar Splicers			Each	28
Furnishing Metal Shell Piles 14" x 0.312"			Foot	695
Driving Piles			Foot	695
Test Pile Metal Shells			Each	2
Pile Shoes			Each	6

- Notes:
- For details of piles see sheet 17 of 21.
 - For bar splicer details see sheet 18 of 21.
 - Space reinforcement in the cap to miss anchor bolts.
 - Pour steps monolithically with cap.



USER NAME = dheberling	DESIGNED - BRD	REVISED
FILE NAME = 0680512-72D08.dgn	CHECKED - TJZ	REVISED
PLOT SCALE = 0.2" = 1' / in.	DRAWN - DLH	REVISED
PLOT DATE = 10/15/2015	CHECKED - BRD	REVISED

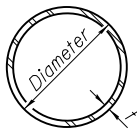
**STATE OF ILLINOIS
 DEPARTMENT OF TRANSPORTATION**

**ABUTMENTS
 STRUCTURE NO. 068-0512**

SHEET NO. 16 OF 21 SHEETS

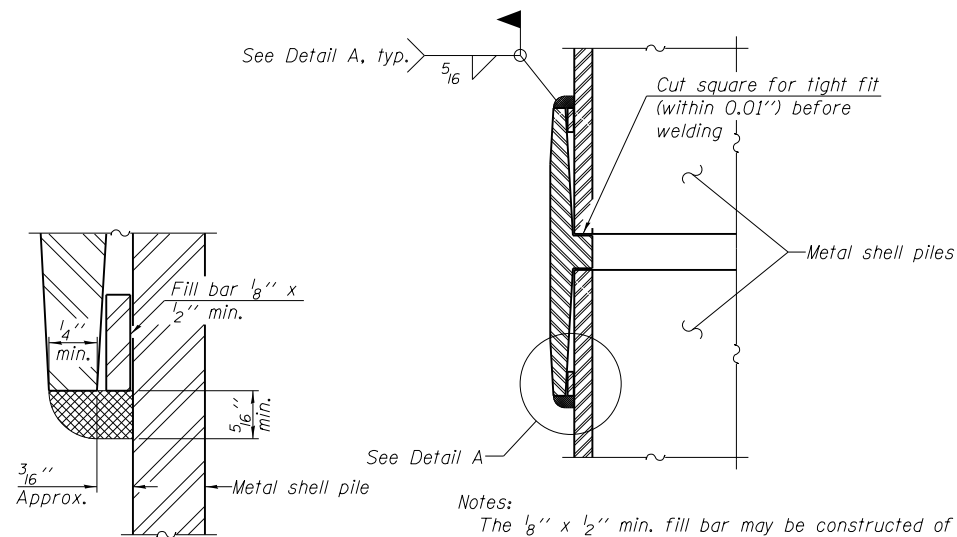
F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
777	405B-1	MONTGOMERY	121	71
CONTRACT NO. 72D08				

ILLINOIS FED. AID PROJECT



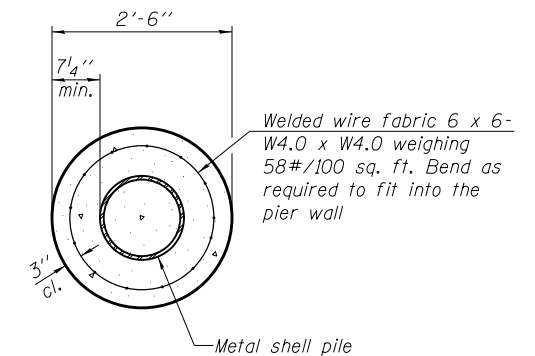
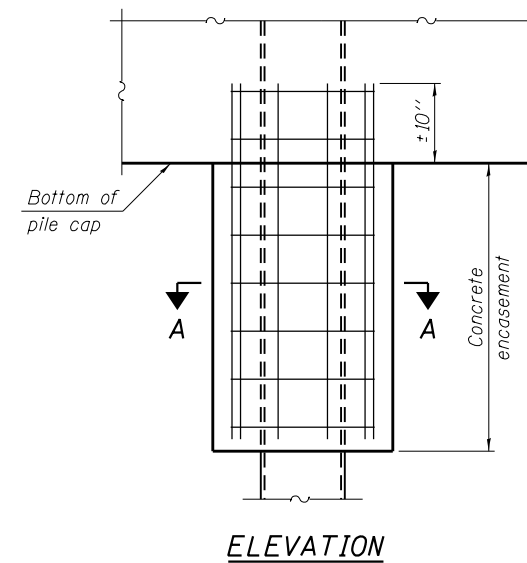
METAL SHELL PILE TABLE

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



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

WELDED COMMERCIAL SPLICE

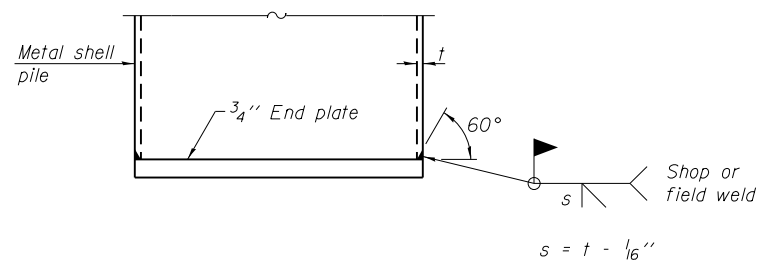


SECTION A-A

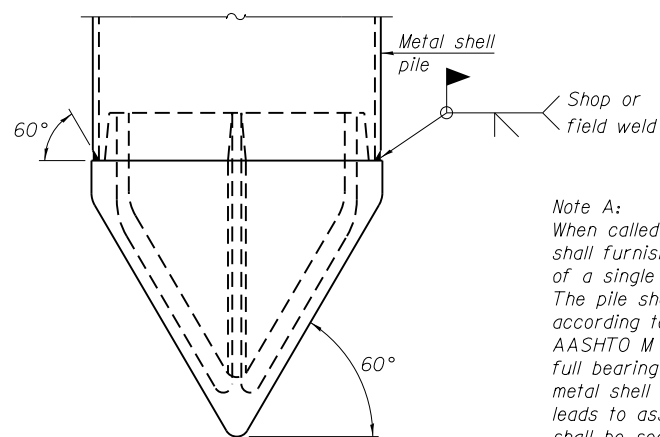
Note:
 Forms for encasement may be omitted when soil conditions permit.

ELEVATION

CONCRETE ENCASEMENT AT PIERS



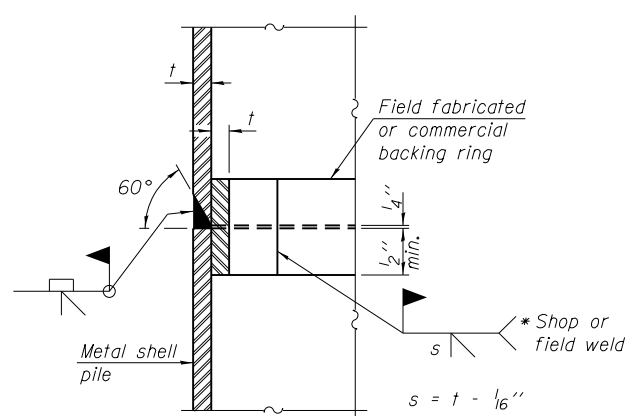
END PLATE ATTACHMENT



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

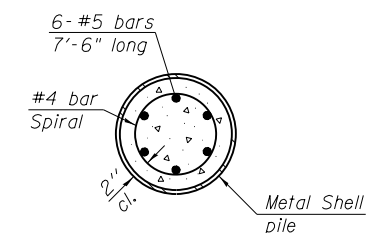
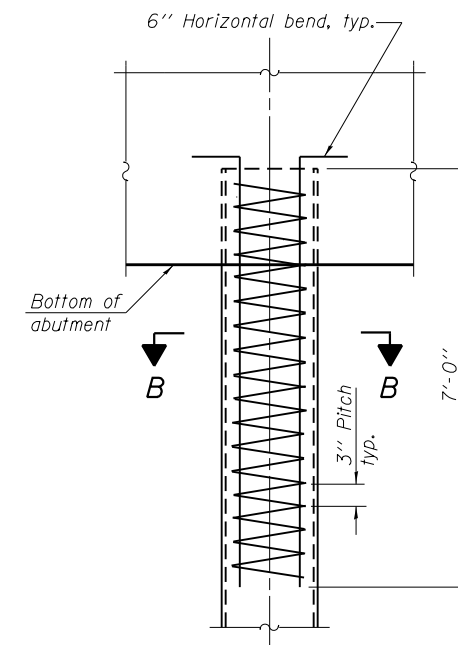
METAL SHELL PILE SHOE ATTACHMENT

(See Note A)



COMPLETE PENETRATION WELD SPLICE

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



SECTION B-B

ELEVATION

METAL SHELL REINFORCEMENT AT ABUTMENTS

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

F-MS 1-27-12



USER NAME = dheberling	DESIGNED - BRD	REVISED
FILE NAME = 0680512-72D08.dgn	CHECKED - TJZ	REVISED
PLOT SCALE = 0:2' = 1" = 1/16"	DRAWN - DLH	REVISED
PLOT DATE = 10/15/2015	CHECKED - BRD	REVISED

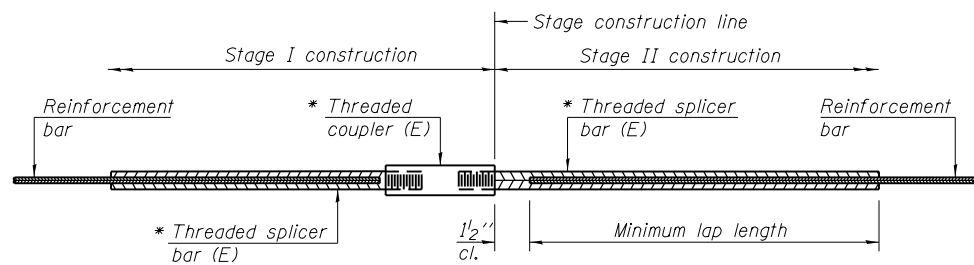
STATE OF ILLINOIS
 DEPARTMENT OF TRANSPORTATION

METAL SHELL PILE DETAILS
 STRUCTURE NO. 068-0512

SHEET NO. 17 OF 21 SHEETS

F.A.P. RTE. 777	SECTION 405B-1	COUNTY MONTGOMERY	TOTAL SHEETS 121	SHEET NO. 72
CONTRACT NO. 72D08				

ILLINOIS FED. AID PROJECT



STANDARD BAR SPLICER ASSEMBLY

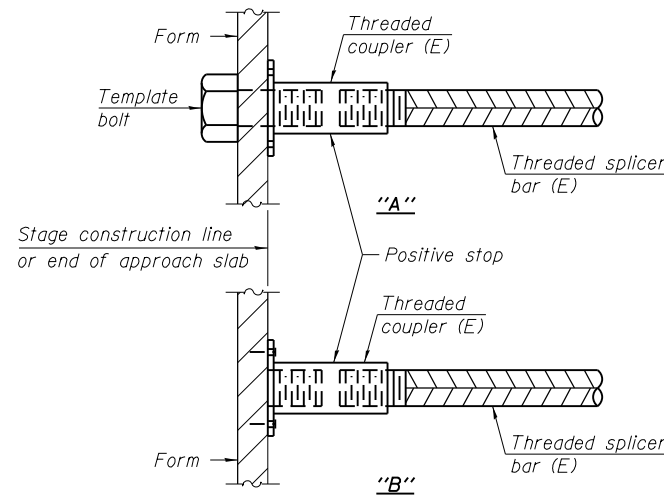
Minimum Lap Lengths						
Bar size to be spliced	Table 1	Table 2	Table 3	Table 4	Table 5	Table 6
3, 4	1'-5"	1'-11"	2'-1"	2'-4"	2'-7"	2'-11"
5	1'-9"	2'-5"	2'-7"	2'-11"	3'-3"	3'-8"
6	2'-1"	2'-11"	3'-1"	3'-6"	3'-10"	4'-5"
7	2'-9"	3'-10"	4'-2"	4'-8"	5'-2"	5'-10"
8	3'-8"	5'-1"	5'-5"	6'-2"	6'-9"	7'-8"
9	4'-7"	6'-5"	6'-10"	7'-9"	8'-7"	9'-8"

- Table 1: Black bar, 0.8 Class C
- Table 2: Black bar, Top bar lap, 0.8 Class C
- Table 3: Epoxy bar, 0.8 Class C
- Table 4: Epoxy bar, Top bar lap, 0.8 Class C
- Table 5: Epoxy bar, Class C
- Table 6: Epoxy bar, Top bar top, Class C

Threaded splicer bar length = min. lap length + 1/2" + thread length

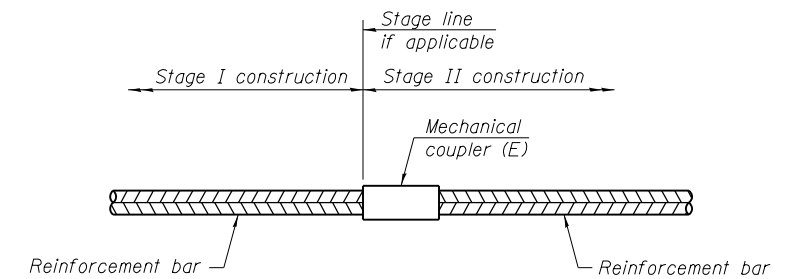
* Epoxy not required on Bar Splicer Assembly components used in conjunction with black bars.

Location	Bar size	No. assemblies required	Table for minimum lap length
Bridge top of deck	#5	149	3
Bridge bottom of deck	#5	90	3
Integral diaphragm - front face	#6	10	3
Integral diaphragm - back face	#6	8	4
Approach top of deck	#4	50	3
Approach bottom of deck	#5	92	3
Approach footing	#5	80	3
Abutment cap	#7	28	4



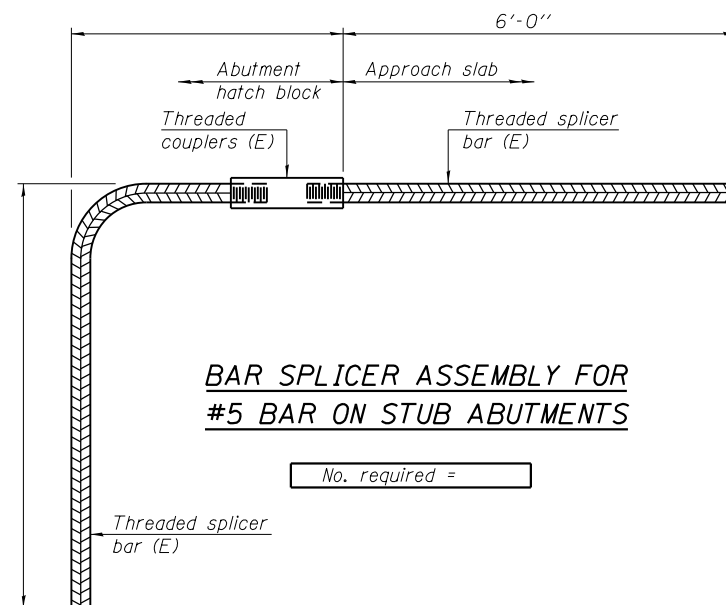
INSTALLATION AND SETTING METHODS

"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.



STANDARD MECHANICAL SPLICER

Location	Bar size	No. assemblies required

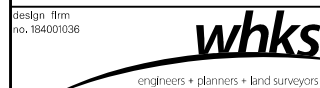


Notes:

1. Splicer bars shall be deformed with threaded ends and have a minimum 60 ksi yield strength
2. All reinforcement shall be lapped and tied to the splicer bars.
3. Bar splicer assemblies shall be epoxy coated according to the requirements for reinforcement bars. See Section 508 of the Standard Specifications.
4. See approved list of bar splicer assemblies and mechanical splicers for alternatives.

BSD-1

8-31-12



USER NAME = dheberling	DESIGNED - BRD	REVISED
FILE NAME = 0680512-72D08.dgn	CHECKED - TJZ	REVISED
PLOT SCALE = 0:2" = 1' / in.	DRAWN - DLH	REVISED
PLOT DATE = 10/15/2015	CHECKED - BRD	REVISED

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

BAR SPLICER ASSEMBLY AND MECHANICAL SPLICER DETAILS
STRUCTURE NO. 068-0512

SHEET NO. 18 OF 21 SHEETS

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
777	405B-1	MONTGOMERY	121	73
CONTRACT NO. 72D08				

ILLINOIS FED. AID PROJECT



Illinois Department of Transportation
Division of Highways
District 6

SOIL BORING LOG

Page 1 of 2

Date 2/21/12

ROUTE IL-185 DESCRIPTION over McDavid Branch Creek LOGGED BY M. Tappan

SECTION 405B-1 LOCATION SW 1/4, SEC. 27, TWP. 8N, RNG. 3W, 3 PM

COUNTY Montgomery DRILLING METHOD HSA HAMMER TYPE 140 # AUTO

STRUCT. NO. 068-0026
Station 310+31
BORING NO. 1 W. Abut.
Station 309+89
Offset 12.0ft LT
Ground Surface Elev. 604.2 ft

Surface Water Elev. 590.2 ft
Stream Bed Elev. 589.2 ft
Groundwater Elev.:
First Encounter 591.2 ft
Upon Completion Washed ft
After Plugged Hrs. ft

DEPTH (ft)	BULGE (in)	UCS (tsf)	MOISTURE (%)	SOIL DESCRIPTION	DEPTH (ft)	BULGE (in)	UCS (tsf)	MOISTURE (%)
0				Brown and Olive Gray Moist SILTY CLAY (Fill)	0			
1				Gray Medium SANDY GRAVEL Washed	1			
2	.80	21		Gray Dirty Fine SAND Washed	2			
3	B				3			
599.20				Olive Brown and Gray Moist CLAY LOAM (Till) (Fill)	-25			
2				Gray Medium SANDY GRAVEL Washed	2			
2	1.2	18			6			
3	B				9			
				Washed	3			
					4			
					9			
					-30			
593.20				Dark Gray Moist LOAM to SILTY CLAY LOAM	0			
1	.40	11		Gray Dirty Medium SAND	1			
1	B				4			
					6			
					-15			
				Brown Medium to Coarse SAND	1			
					2			
					5			
586.20				Brown and Gray Moist SILTY CLAY	4			
2	.80	12		Washed	7			
2	B				10			
					15			
					-40			

The Unconfined Compressive Strength (UCS) Failure Mode is indicated by (B-Bulge, S-Shear, P-Penetrometer, E-Estimated) Abbreviations W.O.H - Sampler Advanced By Weight of Hammer, W.O.P - Advanced by Weight of Pipe, B.S. - Before Seating The SPT (N value) is the sum of the last two blow values in each sampling zone (AASHTO T206) BBS, from 137 (Rev. 8-99)

File Name: S:\SOILSIGINT\FILES\MONTGOMERY\068-0026.GPJ Data Template: DGT\TEMP.LT.GDT Date Printed: 6/26/13 Latitude: 39.05158N Longitude: 89.24515W Datum: NAD83 Job Number: D-96-105-08



Illinois Department of Transportation
Division of Highways
District 6

SOIL BORING LOG

Page 2 of 2

Date 2/21/12

ROUTE IL-185 DESCRIPTION over McDavid Branch Creek LOGGED BY M. Tappan

SECTION 405B-1 LOCATION SW 1/4, SEC. 27, TWP. 8N, RNG. 3W, 3 PM

COUNTY Montgomery DRILLING METHOD HSA HAMMER TYPE 140 # AUTO

STRUCT. NO. 068-0026
Station 310+31
BORING NO. 1 W. Abut.
Station 309+89
Offset 12.0ft LT
Ground Surface Elev. 604.2 ft

Surface Water Elev. 590.2 ft
Stream Bed Elev. 589.2 ft
Groundwater Elev.:
First Encounter 591.2 ft
Upon Completion Washed ft
After Plugged Hrs. ft

DEPTH (ft)	BULGE (in)	UCS (tsf)	MOISTURE (%)	SOIL DESCRIPTION	DEPTH (ft)	BULGE (in)	UCS (tsf)	MOISTURE (%)
				Gray Medium SANDY GRAVEL (continued)				
				Grayish Brown Moist CLAY LOAM (Till) Drilled stiff at 42.5' Washed	8			
					15	5.4	14	
					30	B		20
					-45			
				Brown and Gray Moist CLAY LOAM (Till) Washed	8			
					12	4.6	15	
					17	B		3.0
					8			E
				Boring Completed	534.70			
					-70			
				Gray Moist SILTY CLAY (Till)	0			
				Washed	5	4.5	16	
					10	B		
					-55			
					10			
					8	5.0	14	
					13	B		
					-60			

The Unconfined Compressive Strength (UCS) Failure Mode is indicated by (B-Bulge, S-Shear, P-Penetrometer, E-Estimated) Abbreviations W.O.H - Sampler Advanced By Weight of Hammer, W.O.P - Advanced by Weight of Pipe, B.S. - Before Seating The SPT (N value) is the sum of the last two blow values in each sampling zone (AASHTO T206) BBS, from 137 (Rev. 8-99)

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Design firm
no. 184001036



USER NAME = dheberling	DESIGNED - BRD	REVISED
FILE NAME = 0680512-72088.dgn	CHECKED - TJZ	REVISED
PLOT SCALE = 0:2" = 1' / in.	DRAWN - DLH	REVISED
PLOT DATE = 10/15/2015	CHECKED - BRD	REVISED

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

BORING LOGS
STRUCTURE NO. 068-0512

SHEET NO. 19 OF 21 SHEETS

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
777	405B-1	MONTGOMERY	121	74
CONTRACT NO. 72D08				

ILLINOIS FED. AID PROJECT



Illinois Department of Transportation
Division of Highways
District 6

SOIL BORING LOG

Page 1 of 3

Date 2/17/12

ROUTE IL-185 DESCRIPTION over McDavid Branch Creek LOGGED BY M. Tappan

SECTION 405B-1 LOCATION SW 1/4, SEC. 27, TWP. 8N, RNG. 3W, 3 PM

COUNTY Montgomery DRILLING METHOD HSA HAMMER TYPE 140 # AUTO

STRUCT. NO.	Station	DEPTH	BLOW	UCS	MOIST	Surface Water Elev.	Stream Bed Elev.	Groundwater Elev.:	First Encounter	Upon Completion	After Plugged Hrs.	DEPTH	BLOW	UCS	MOIST	
068-0026	310+31	(ft)	/6"	(tsf)	(%)	590.2 ft	589.2 ft	586.3 ft	ft	ft	ft	(ft)	/6"	(tsf)	(%)	
								Gray Wet SANDY CLAY LOAM (continued)								
								583.30								
								Light Brown Dirty Medium SAND with Some Pea GRAVEL								
								602.30								
								Olive Brown and Light Blue Gray Moist CLAY LOAM (Till) (Fill)								
								580.80								
								Gray Moist LOAM								
								579.30								
								Gray Very Moist SILTY CLAY (Fill)								
								576.80								
								Gray Dirty Medium SAND to Gray Moist SILTY CLAY LOAM (Fill)								
								574.30								
								Tan Medium to Coarse SAND								
								593.30								
								Very Dark Gray Moist SILTY CLAY								
								586.80								
								Gray Moist SILTY CLAY								
								586.30								
								Light Olive Brown and Gray Moist SILTY CLAY with Very Wet Seam at 16.5 - 17.5								
								586.30								
								Gray Wet SANDY CLAY LOAM								

The Unconfined Compressive Strength (UCS) Failure Mode is indicated by (B-Bulge, S-Shear, P-Penetrometer, E-Estimated) Abbreviations W.O.H - Sampler Advanced By Weight of Hammer, W.O.P - Advanced by Weight of Pipe, B.S. - Before Seating The SPT (N value) is the sum of the last two blow values in each sampling zone (AASHTO T206) BBS, from 137 (Rev. 8-99)

File Name: S:\SOIL\SIGINT FILES\MONTGOMERY\068-0026.GPJ Data Template DSTEMPLT.GDT Date Printed 6/26/13 Latitude 39.06146N Longitude 89.24501W Datum NAD83 Job Number D-95-105-09



Illinois Department of Transportation
Division of Highways
District 6

SOIL BORING LOG

Page 2 of 3

Date 2/17/12

ROUTE IL-185 DESCRIPTION over McDavid Branch Creek LOGGED BY M. Tappan

SECTION 405B-1 LOCATION SW 1/4, SEC. 27, TWP. 8N, RNG. 3W, 3 PM

COUNTY Montgomery DRILLING METHOD HSA HAMMER TYPE 140 # AUTO

STRUCT. NO.	Station	DEPTH	BLOW	UCS	MOIST	Surface Water Elev.	Stream Bed Elev.	Groundwater Elev.:	First Encounter	Upon Completion	After Plugged Hrs.	DEPTH	BLOW	UCS	MOIST	
068-0026	310+31	(ft)	/6"	(tsf)	(%)	590.2 ft	589.2 ft	586.3 ft	ft	ft	ft	(ft)	/6"	(tsf)	(%)	
								Tan Medium to Coarse SAND (continued)								
								543.30								
								562.30								
								Brown and Olive Gray Moist SILTY CLAY (Till)								
								580.80								
								Gray Moist LOAM								
								579.30								
								Brown Medium SAND								
								576.80								
								Gray Moist LOAM Washed								
								574.30								
								Tan Medium to Coarse SAND								
								593.30								
								Very Dark Gray Moist SILTY CLAY								
								586.80								
								Gray Moist SILTY CLAY								
								586.30								
								Light Olive Brown and Gray Moist SILTY CLAY with Very Wet Seam at 16.5 - 17.5								
								586.30								
								Gray Wet SANDY CLAY LOAM								

The Unconfined Compressive Strength (UCS) Failure Mode is indicated by (B-Bulge, S-Shear, P-Penetrometer, E-Estimated) Abbreviations W.O.H - Sampler Advanced By Weight of Hammer, W.O.P - Advanced by Weight of Pipe, B.S. - Before Seating The SPT (N value) is the sum of the last two blow values in each sampling zone (AASHTO T206) BBS, from 137 (Rev. 8-99)

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Design firm
no. 184001036



USER NAME = dheberling	DESIGNED - BRD	REVISED
FILE NAME = 0680512-72088.dgn	CHECKED - TJZ	REVISED
PLOT SCALE = 0:2" = 1' / in.	DRAWN - DLH	REVISED
PLOT DATE = 10/15/2015	CHECKED - BRD	REVISED

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

BORING LOGS
STRUCTURE NO. 068-0512

SHEET NO. 20 OF 21 SHEETS

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
777	405B-1	MONTGOMERY	121	75
CONTRACT NO. 72D08				

ILLINOIS FED. AID PROJECT



Illinois Department
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Division of Highways
District 6

SOIL BORING LOG

Page 3 of 3

Date 2/17/12

ROUTE IL-185 DESCRIPTION over McDavid Branch Creek LOGGED BY M. Tappan

SECTION 405B-1 LOCATION SW 1/4, SEC. 27, TWP. 8N, RNG. 3W, 3 PM

COUNTY Montgomery DRILLING METHOD HSA HAMMER TYPE 140 # AUTO

STRUCT. NO. 068-0026
Station 310+31
BORING NO. 2 E. Abut.
Station 310+77
Offset 13.0ft RT
Ground Surface Elev. 604.3 ft

DEP
T
H

B
L
O
W
S

U
C
S
Qu

M
O
I
S
T

Surface Water Elev. 590.2 ft
Stream Bed Elev. 589.2 ft
Groundwater Elev.:
First Encounter 586.3 ft
Upon Completion Washed ft
After Plugged Hrs. ft

Brown and Olive Gray Moist SILTY CLAY (Till) (continued)					
	522.30				
Gray Moist CLAY LOAM (Till) with 6" SAND LOAM Seam					
Washed		5			
		19	5.1	15	
	519.80	18	B		
Boring Completed	-85				
Ref. Sta. to Centerline of Ex. Structure = 310+31 Sta. Increase to East					
Ref. Elev. to Chsd Square on NE Approach Slab = 604.2					
	-90				
	-95				
	-100				

File Name S:\SOILSIGINT FILES\MONTGOMERY\068-0026.GPJ Data Template D:\TEMPLATE.DAT Data Printed 6/26/12
Latitude 39.06146N Longitude 89.24301W Datum NAD83 Job Number D-95-109-09

The Unconfined Compressive Strength (UCS) Failure Mode is indicated by (B-Bulge, S-Shear, P-Penetrometer, E-Estimated)
Abbreviations W.O.H - Sampler Advanced By Weight of Hammer, W.O.P - Advanced by Weight of Pipe, B.S. - Before Seating
The SPT (N value) is the sum of the last two blow values in each sampling zone (AASHTO T206) BBS, from 137 (Rev. 8-99)

Design firm
no. 184001036



USER NAME = dheberling	DESIGNED - BRD	REVISED
FILE NAME = 0680512-72D08.dgn	CHECKED - TJZ	REVISED
PLOT SCALE = 0:2" = 1' / in.	DRAWN - DLH	REVISED
PLOT DATE = 10/15/2015	CHECKED - BRD	REVISED

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

BORING LOGS
STRUCTURE NO. 068-0512

SHEET NO. 21 OF 21 SHEETS

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
777	405B-1	MONTGOMERY	121	76
			CONTRACT NO. 72D08	

ILLINOIS FED. AID PROJECT

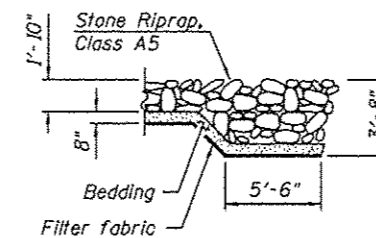
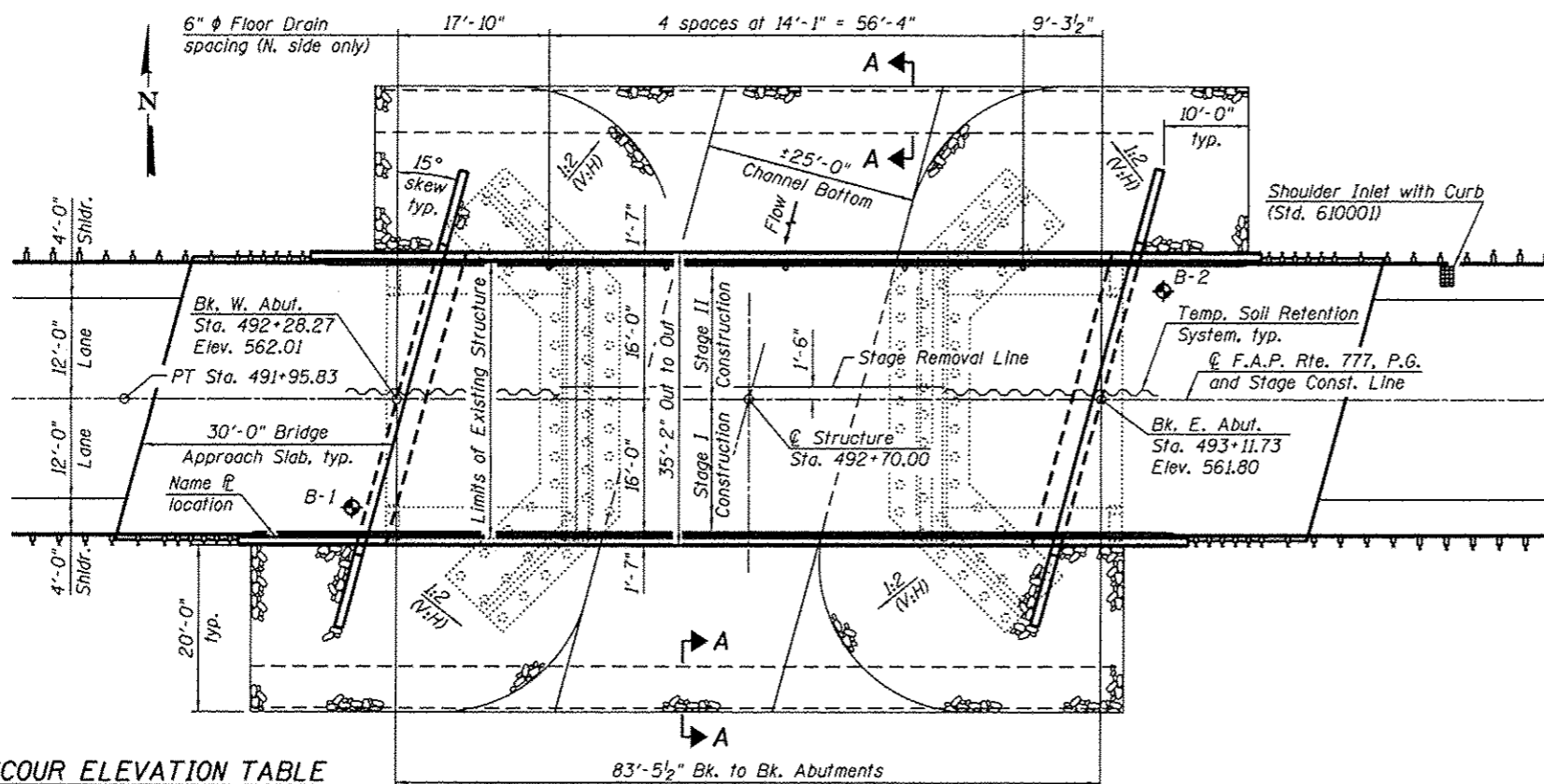
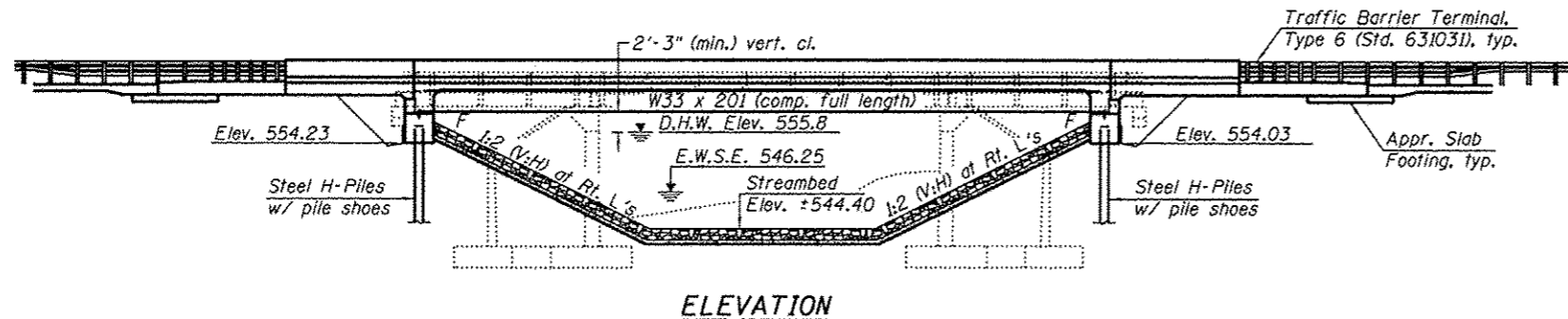
Bench Mark: Chiseled "□" in the wingwall on the Northeast corner of Bridge S.N. 068-0027.
Station 492+94.6; offset 16.6 ft Lt.; Elev. 558.7 (NAVD 88).

Existing Structure: The existing Structure No. 068-0027 is a single span precast prestressed concrete deck beam bridge originally built in 1930 and reconstructed in 1980 as Illinois Route 185 over Bayou Creek. The superstructure consists of Eleven PPC Deck Beams (3' wide by 21" deep). The beams are overlaid with a reinforced concrete wearing surface with 7/2" average thickness. The superstructure is supported by closed reinforced concrete abutments on untreated timber piles. The structure length is 43' back to back of abutments and 33' out to out of deck. Structure to be removed and replaced utilizing stage construction.

Salvage: None

INDEX OF SHEETS

1. General Plan and Elevation
2. General Data
3. Stage Construction Details
4. Temporary Concrete Barrier for Stage Construction
5. Top of Slab Location Plan
6. Top of Slab Elevations
- 7.-8. Top of Approach Slab Elevations
9. Superstructure
10. Superstructure Details
11. Integral Abutment Diaphragm Details
- 12.-13. Bridge Approach Slab Details
14. Framing Plan
15. Structural Steel Details
16. Abutments
17. HP Pile Details
18. Bar Splicer Assembly and Mechanical Splicer Details
- 19.-20. Boring Logs



SECTION A-A

APPROVED
For Structural Adequacy Only

Cory W. Chamberlain
Engineer of Bridges & Structures

STATION 492+70.00
BUILT 20 BY
STATE OF ILLINOIS
F.A.P. RTE. 777 - SEC. 10B-2
LOADING HL-93
STRUCTURE NO. 068-0513

NAME PLATE
See Std. 515001

LOADING HL-93

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

DESIGN SPECIFICATIONS

2014 AASHTO LRFD Bridge Design Specifications, 7th Edition

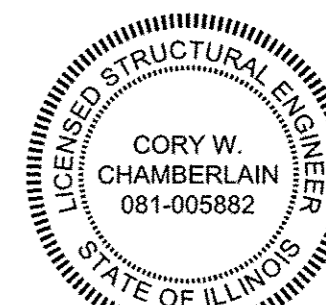
DESIGN STRESSES

FIELD UNITS

$f'_c = 3,500$ psi
 $f_y = 60,000$ psi (Reinforcement)
 $f_y = 50,000$ psi (M270 Grade 50W)

SEISMIC DATA

Seismic Performance Zone (SPZ) = 2
Design Spectral Acceleration at 1.0 sec. (S_{D1}) = 0.232g
Design Spectral Acceleration at 0.2 sec. (S_{D5}) = 0.482g
Soil Site Class = D



Cory W. Chamberlain 10-13-2015
Expires: 11/30/2016

DESIGN SCOUR ELEVATION TABLE

Design Scour Elevations (ft.)		Item
W. Abut.	E. Abut.	
554.23	554.03	113
		8

WATERWAY INFORMATION TABLE

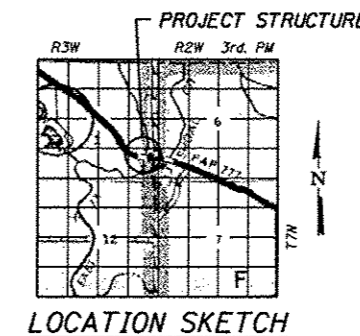
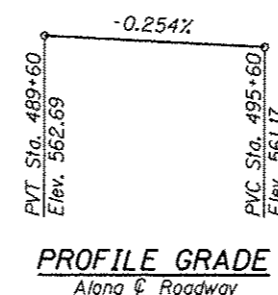
Drainage Area = 5.5 sq. mi. Exist. Overtopping Elev. = 560.75 @ Sta. 491+00
Prop. Low Grade Elev. = 561.80 @ Sta. 492+70

Flood	Freq. Yr.	Q C.F.S.	Opening Sq. Ft.		Nat. H.W.E.	Head - Ft.		Headwater El.	
			Exist.	Prop.		Exist.	Prop.	Exist.	Prop.
Design	10	1560	350	440	554.6	0.4	0.3	555.0	554.9
Base	50	2560	395	530	555.8	0.8	0.5	556.6	556.3
Max. Calc.	100	3020	410	560	556.3	1.0	0.6	557.3	556.9
	500	4150	450	635	557.3	2.7	1.4	560.0	558.7

10 Yr. velocities = Exist. = 4.5 fps / Prop. = 3.6 fps

CURVE DATA

T.R. = 53' (PC end only)
S.E. Runoff = 177'
 $\Delta = 56^\circ 52' 53''$ (LT)
D = 4' 30" 18"
T = 688.83'
L = 1,262.61'
E = 174.56'
R = 1,271.81'
S.E. = 5.0%
P.C. = Sta. 479+33.22
P.T. = Sta. 491+95.83
P.I. = Sta. 486+22.05
See roadway plans for SE transition details.



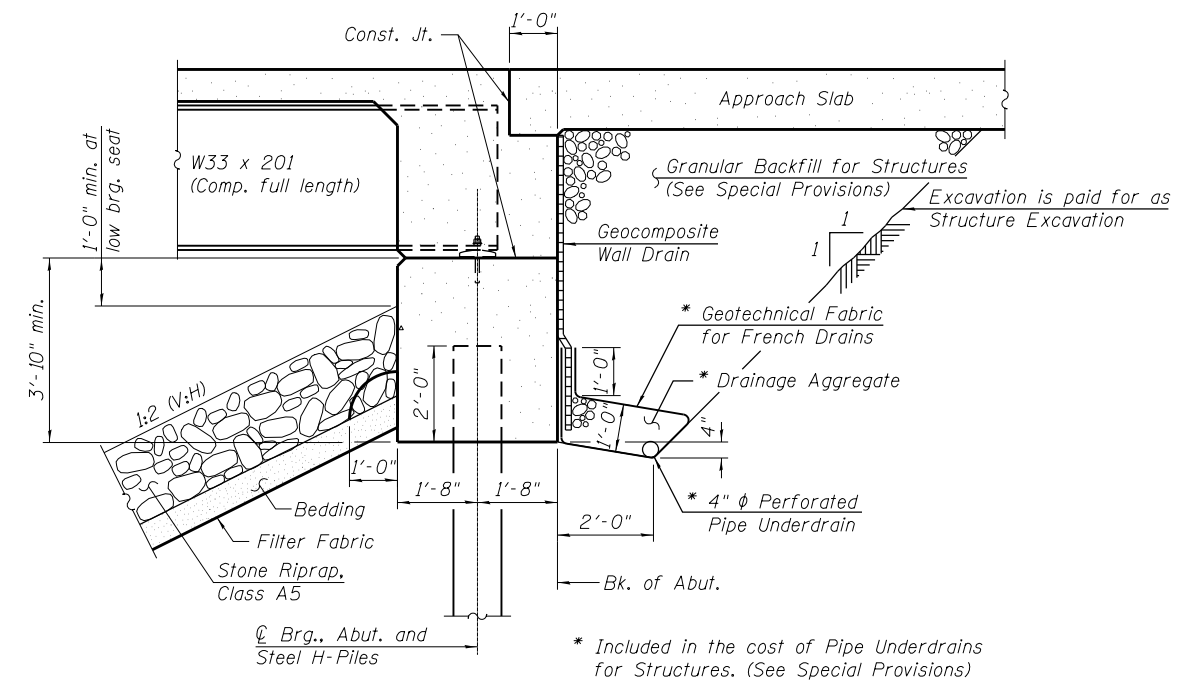
GENERAL PLAN AND ELEVATION
ILLINOIS ROUTE 185 OVER BAYOU CREEK
F.A.P. RTE. 777 - SEC. 10B-2
MONTGOMERY COUNTY
STATION 492+70.00
STRUCTURE NO. 068-0513

GENERAL NOTES

1. Fasteners shall be ASTM A325 Type 3, bolts. Bolts $\frac{3}{4}$ " ϕ , holes $\frac{13}{16}$ " ϕ , unless otherwise noted.
2. Calculated weight of Structural Steel = 103,870 lbs.
3. All structural steel shall be AASHTO M 270 Grade 50W.
4. No field welding is permitted except as specified in the contract documents.
5. Reinforcement bars designated (E) shall be epoxy coated.
6. Structural steel shall only be painted for a distance equal to the depth of embedment into the concrete diaphragm plus 1'-6". Painted areas shall be primed in the shop with a Department approved zinc rich primer. Field painting will not be required.
7. Layout of the slope protection system may be varied to suit ground conditions in the field as directed by the Engineer.
8. Slipforming of the parapet is not allowed.

TOTAL BILL OF MATERIAL

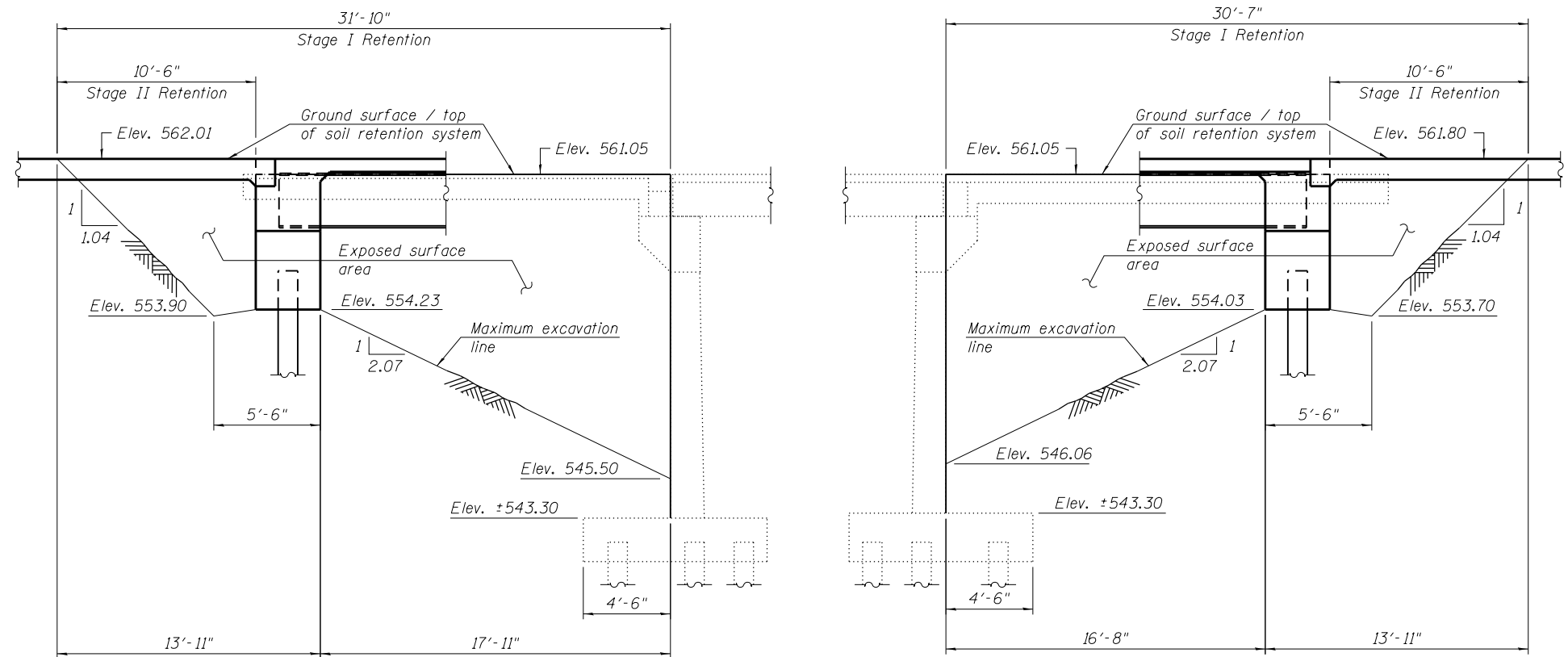
ITEM	UNIT	SUPER	SUB	TOTAL
Stone Riprap, Class A5	Sq. Yd.		815	815
Filter Fabric	Sq. Yd.		815	815
Removal of Existing Structures No. 2	Each		1	1
Structure Excavation	Cu. Yd.		235	235
Floor Drains	Each	5		5
Concrete Structures	Cu. Yd.		66.0	66.0
Concrete Superstructure	Cu. Yd.	229.2		229.2
Bridge Deck Grooving	Sq. Yd.		475	475
Protective Coat	Sq. Yd.		604	604
Furnishing and Erecting Structural Steel	L. Sum	0.55		0.55
Stud Shear Connectors	Each	1,566		1,566
Reinforcement Bars, Epoxy Coated	Pound	47,390	11,640	59,030
Bar Splicers	Each	396	108	504
Furnishing Steel Piles HP 12x53	Foot		400	400
Driving Piles	Foot		400	400
Test Pile Steel HP 12x53	Each		2	2
Pile Shoes	Each		12	12
Name Plates	Each	1		1
Anchor Bolts, 1"	Each		24	24
Geocomposite Wall Drain	Sq. Yd.		68	68
Granular Backfill for Structures	Cu. Yd.		120	120
Asbestos Bearing Pad Removal	Each		20	20
Pipe Underdrains for Structures 4"	Foot		166	166
Temporary Soil Retention System	Sq. Ft.		535	535



SECTION THRU INTEGRAL ABUTMENT

(Horiz. dimensions are at Rt. L's.)

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 60110).



TEMPORARY SOIL RETENTION SYSTEM

(Looking North, Dimensions shown along Stage Const. Line.)

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



USER NAME =	DESIGNED - TJZ	REVISED
FILE NAME =	CHECKED - BRD	REVISED
PLOT SCALE =	DRAWN - DLH	REVISED
PLOT DATE =	CHECKED - TJZ	REVISED

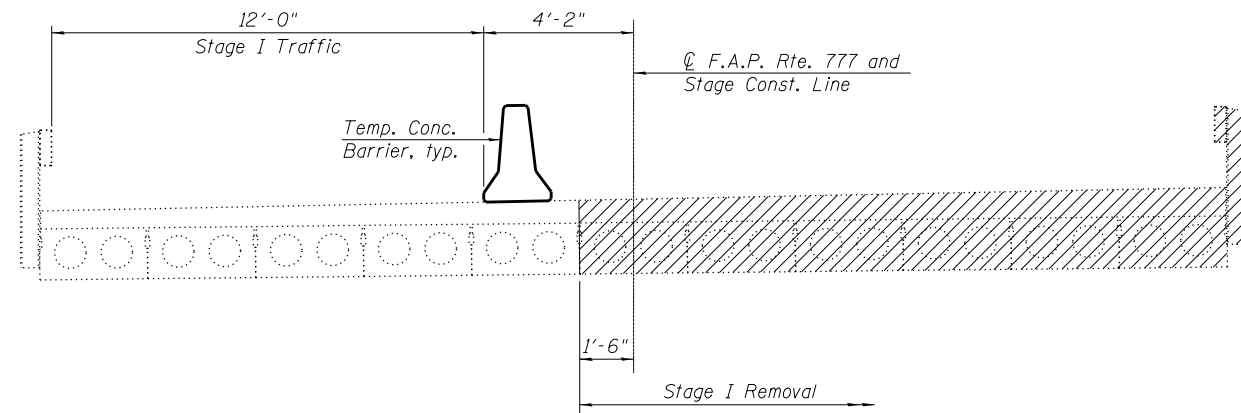
**STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION**

**GENERAL DATA
STRUCTURE NO. 068-0513**

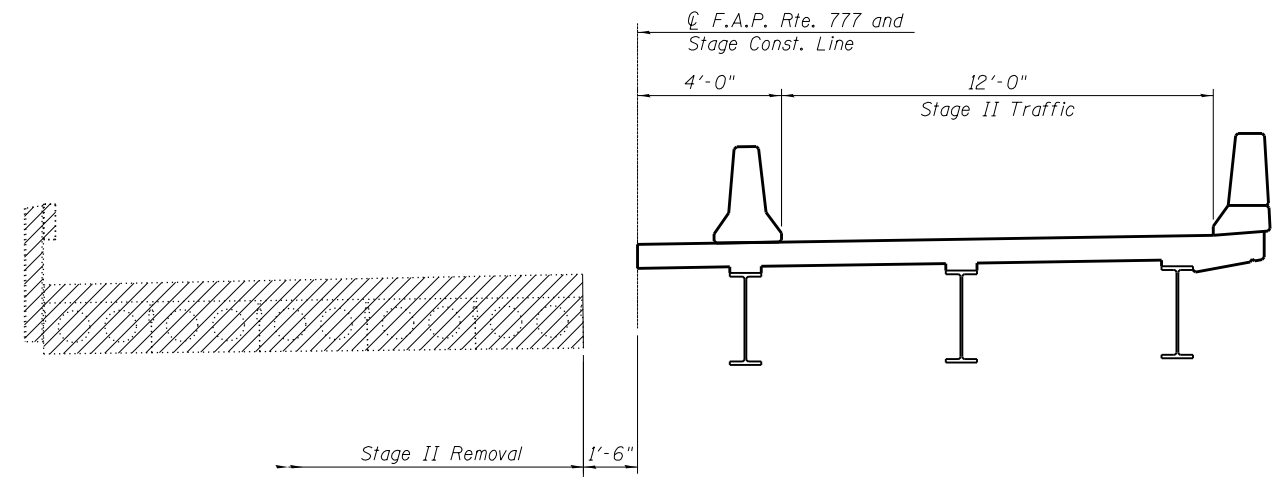
SHEET NO. 2 OF 20 SHEETS

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
777	10B-2	MONTGOMERY	121	78
CONTRACT NO. 72D08				

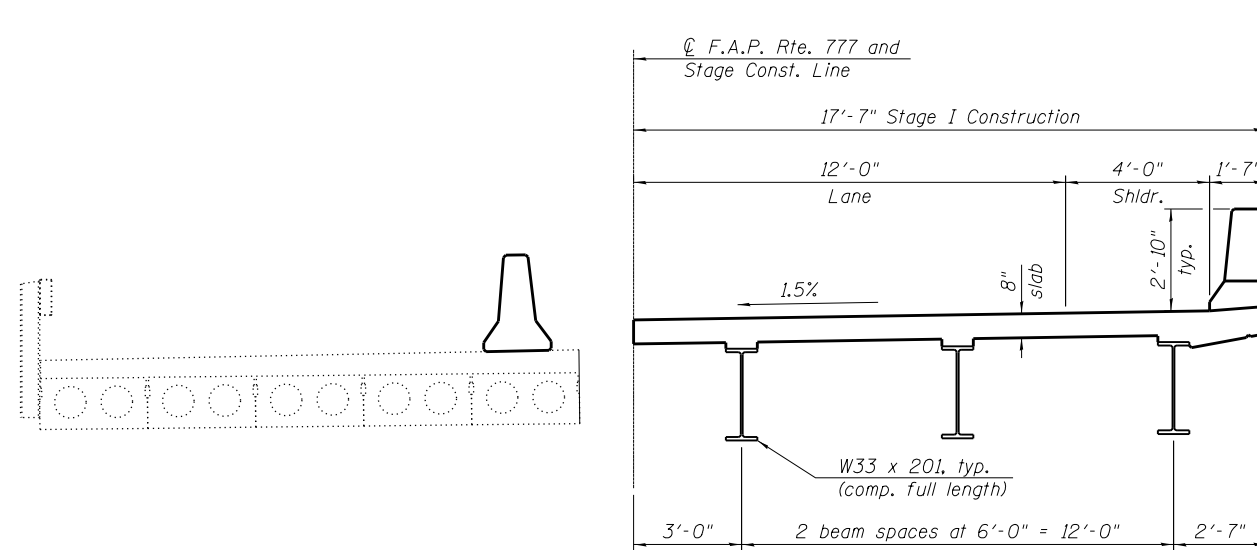
ILLINOIS FED. AID PROJECT



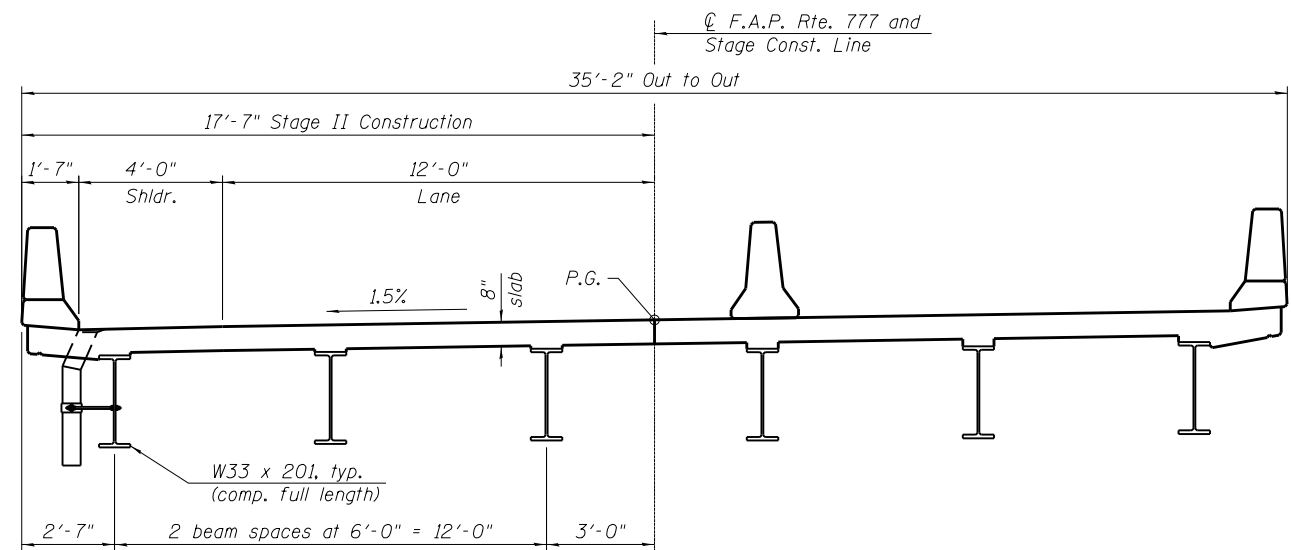
STAGE I REMOVAL
(Looking East)



STAGE II REMOVAL
(Looking East)



STAGE I CONSTRUCTION
(Looking East)



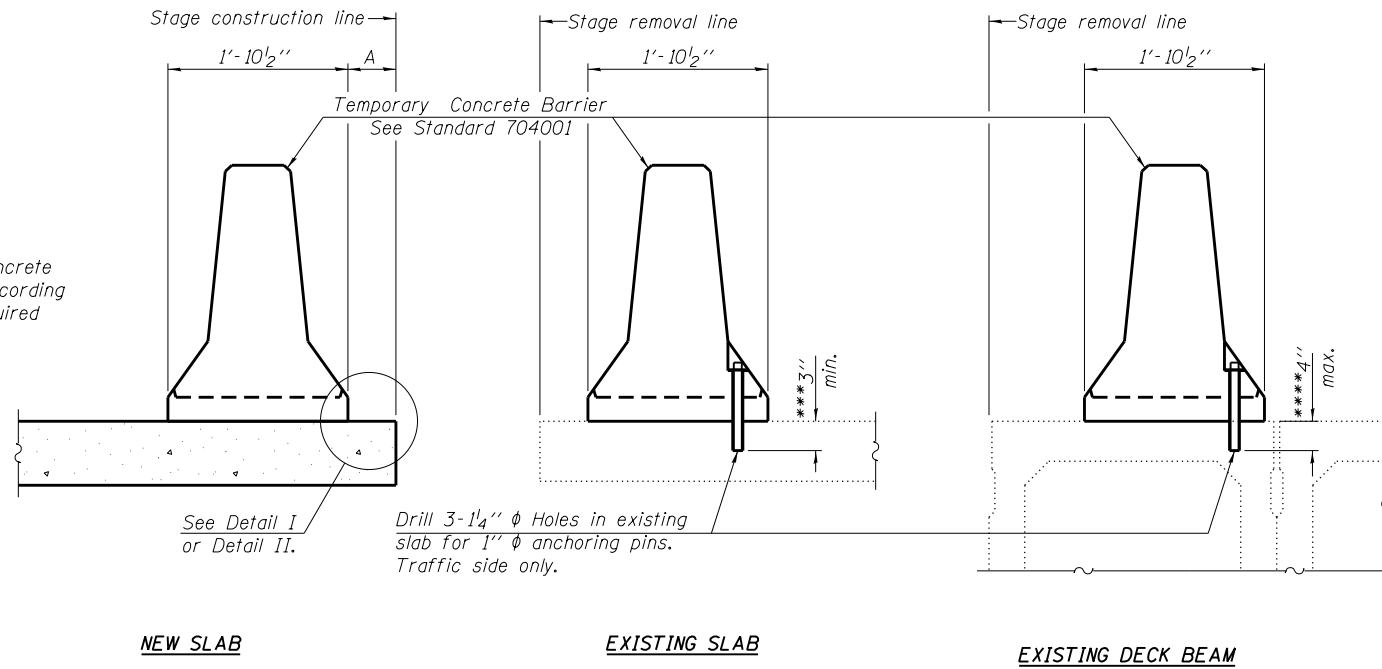
STAGE II CONSTRUCTION
(Looking East)

- Notes:
1. Hatched area indicates Removal of Existing Structures.
 2. For details of Temporary Concrete Barrier, see sheet 4 of 20.
 3. See roadway plans for quantity of Temporary Concrete Barrier.

USER NAME =	DESIGNED - TJZ	REVISED
FILE NAME =	CHECKED - BRD	REVISED
PLOT SCALE =	DRAWN - DLH	REVISED
PLOT DATE =	CHECKED - TJZ	REVISED

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
777	10B-2	MONTGOMERY	121	79
CONTRACT NO. 72D08				

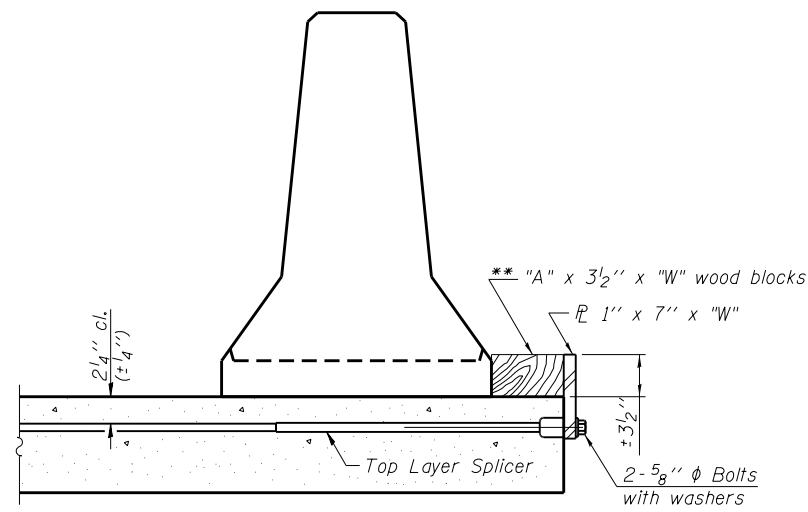
When "A" is 3'-1" or less, the temporary concrete barrier shall be anchored to the new slab according to Detail I or Detail II. No anchorage is required when "A" is greater than 3'-1".



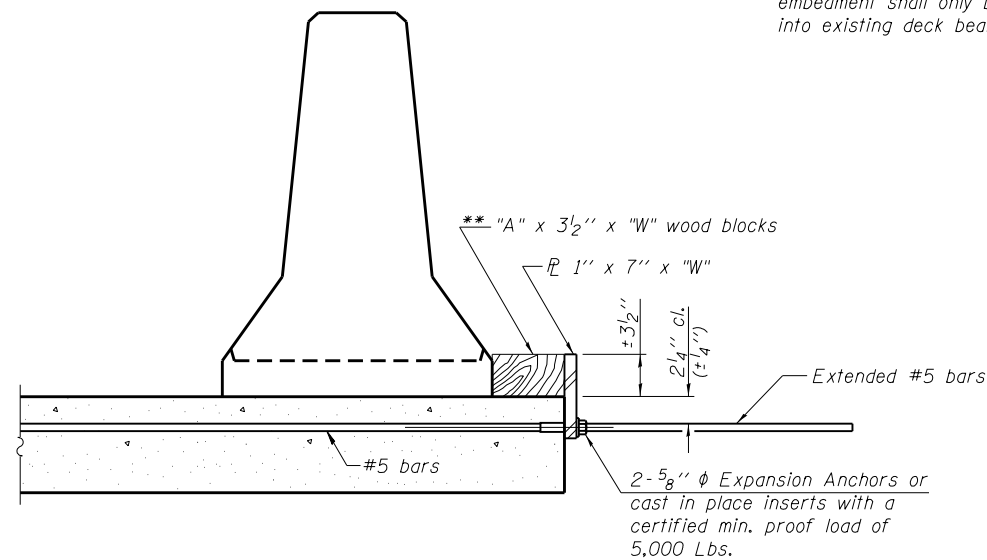
SECTIONS THRU SLAB OR DECK BEAM

*** Dimension shown is minimum required embedment into concrete.
If hot-mix asphalt wearing surface is present, minimum embedment shall be in addition to wearing surface depth.

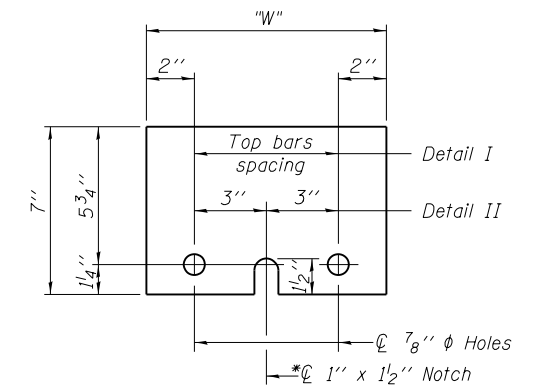
**** If existing deck beam is to remain in place after stage construction, embedment shall only be into wearing surface and not into existing deck beam concrete.



DETAIL I



DETAIL II



STEEL RETAINER 1" x 7" x "W"

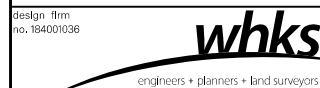
* Required only with Detail II

RETAINER ASSEMBLY

** Wood blocks may be omitted when required to provide minimum stage traffic lane width. When the wood blocks are omitted, the concrete barrier shall be in direct contact with the steel retainer plate.

R-27

1-12-15



USER NAME =	DESIGNED - TJZ	REVISED
FILE NAME =	CHECKED - BRD	REVISED
PLOT SCALE =	DRAWN - DLH	REVISED
PLOT DATE =	CHECKED - TJZ	REVISED

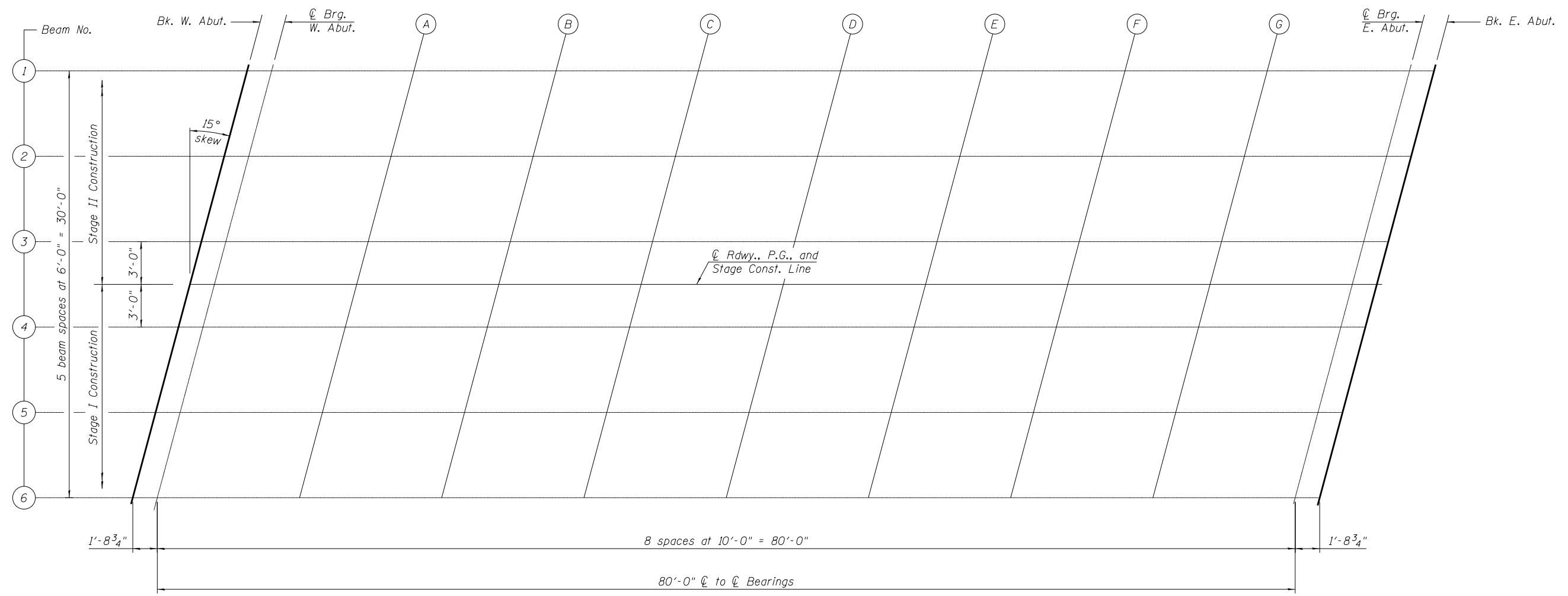
**STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION**

**TEMPORARY CONCRETE BARRIER FOR STAGE CONSTRUCTION
STRUCTURE NO. 068-0513**

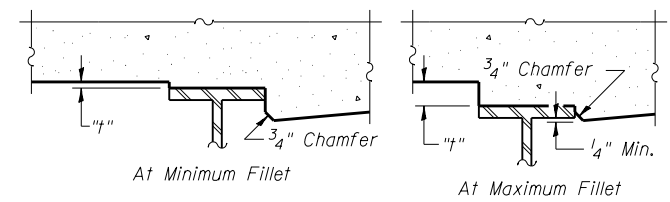
SHEET NO. 4 OF 20 SHEETS

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
777	10B-2	MONTGOMERY	121	80
CONTRACT NO. 72D08				

ILLINOIS FED. AID PROJECT

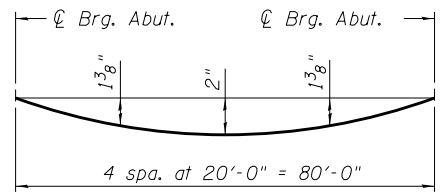


PLAN



To determine "f": After all structural steel has been erected, elevations of the top flanges of the beams shall be taken at intervals shown above. These elevations subtracted from the "Theoretical Grade Elevations Adjusted for Dead Load Deflection" shown on sheet 6 of 20, minus slab thickness, equals the fillet heights "f" above top flange of beams.

FILLET HEIGHTS

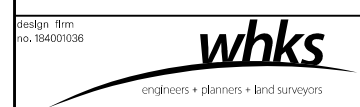


DEAD LOAD DEFLECTION DIAGRAM

(Includes weight of concrete only.)

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 20.

Note:
Work this sheet with sheet 6 of 20.



USER NAME =	DESIGNED - TJZ	REVISED
FILE NAME =	CHECKED - BRD	REVISED
PLOT SCALE =	DRAWN - DLH	REVISED
PLOT DATE =	CHECKED - TJZ	REVISED

**STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION**

**TOP OF SLAB LOCATION PLAN
STRUCTURE NO. 068-0513**

SHEET NO. 5 OF 20 SHEETS

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
777	10B-2	MONTGOMERY	121	81
CONTRACT NO. 72D08				

ILLINOIS FED. AID PROJECT

BEAM 1

Location	Station	Offset	Theoretical Grade Elevations	Theoretical Grade Elevations Adjusted For Dead Load Deflection
Bk. W. Abut.	492+32.29	-15.00	561.78	561.78
⊕ Brg. W. Abut.	492+34.01	-15.00	561.77	561.77
A	492+44.01	-15.00	561.75	561.81
B	492+54.01	-15.00	561.72	561.83
C	492+64.01	-15.00	561.69	561.84
D	492+74.01	-15.00	561.67	561.83
E	492+84.01	-15.00	561.64	561.79
F	492+94.01	-15.00	561.62	561.73
G	493+04.01	-15.00	561.59	561.66
⊕ Brg. E. Abut.	493+14.01	-15.00	561.57	561.57
Bk. E. Abut.	493+15.75	-15.00	561.56	561.56

BEAM 2

Location	Station	Offset	Theoretical Grade Elevations	Theoretical Grade Elevations Adjusted For Dead Load Deflection
Bk. W. Abut.	492+30.68	-9.00	561.87	561.87
⊕ Brg. W. Abut.	492+32.41	-9.00	561.86	561.86
A	492+42.41	-9.00	561.84	561.90
B	492+52.41	-9.00	561.81	561.93
C	492+62.41	-9.00	561.79	561.94
D	492+72.41	-9.00	561.76	561.93
E	492+82.41	-9.00	561.74	561.89
F	492+92.41	-9.00	561.71	561.83
G	493+02.41	-9.00	561.69	561.75
⊕ Brg. E. Abut.	493+12.41	-9.00	561.66	561.66
Bk. E. Abut.	493+14.14	-9.00	561.66	561.66

BEAM 3

Location	Station	Offset	Theoretical Grade Elevations	Theoretical Grade Elevations Adjusted For Dead Load Deflection
Bk. W. Abut.	492+29.07	-3.00	561.96	561.96
⊕ Brg. W. Abut.	492+30.80	-3.00	561.96	561.96
A	492+40.80	-3.00	561.93	562.00
B	492+50.80	-3.00	561.91	562.02
C	492+60.80	-3.00	561.88	562.03
D	492+70.80	-3.00	561.86	562.02
E	492+80.80	-3.00	561.83	561.98
F	492+90.80	-3.00	561.81	561.92
G	493+00.80	-3.00	561.78	561.84
⊕ Brg. E. Abut.	493+10.80	-3.00	561.76	561.76
Bk. E. Abut.	493+12.53	-3.00	561.75	561.75

⊕ ROADWAY, P.G., AND STAGE CONSTRUCTION LINE

Location	Station	Offset	Theoretical Grade Elevations	Theoretical Grade Elevations Adjusted For Dead Load Deflection
Bk. W. Abut.	492+28.27	0.00	562.01	562.01
⊕ Brg. W. Abut.	492+30.00	0.00	562.01	562.01
A	492+40.00	0.00	561.98	562.04
B	492+50.00	0.00	561.96	562.07
C	492+60.00	0.00	561.93	562.08
D	492+70.00	0.00	561.90	562.07
E	492+80.00	0.00	561.88	562.03
F	492+90.00	0.00	561.85	561.97
G	493+00.00	0.00	561.83	561.89
⊕ Brg. E. Abut.	493+10.00	0.00	561.80	561.80
Bk. E. Abut.	493+11.73	0.00	561.80	561.80

BEAM 4

Location	Station	Offset	Theoretical Grade Elevations	Theoretical Grade Elevations Adjusted For Dead Load Deflection
Bk. W. Abut.	492+27.47	3.00	562.06	562.06
⊕ Brg. W. Abut.	492+29.19	3.00	562.05	562.05
A	492+39.19	3.00	562.03	562.09
B	492+49.19	3.00	562.00	562.12
C	492+59.19	3.00	561.98	562.13
D	492+69.19	3.00	561.95	562.11
E	492+79.19	3.00	561.93	562.08
F	492+89.19	3.00	561.90	562.02
G	492+99.19	3.00	561.88	561.94
⊕ Brg. E. Abut.	493+09.19	3.00	561.85	561.85
Bk. E. Abut.	493+10.92	3.00	561.85	561.85

BEAM 5

Location	Station	Offset	Theoretical Grade Elevations	Theoretical Grade Elevations Adjusted For Dead Load Deflection
Bk. W. Abut.	492+25.86	9.00	562.15	562.15
⊕ Brg. W. Abut.	492+27.58	9.00	562.15	562.15
A	492+37.58	9.00	562.12	562.18
B	492+47.58	9.00	562.10	562.21
C	492+57.58	9.00	562.07	562.22
D	492+67.58	9.00	562.05	562.21
E	492+77.58	9.00	562.02	562.17
F	492+87.58	9.00	562.00	562.11
G	492+97.58	9.00	561.97	562.03
⊕ Brg. E. Abut.	493+07.58	9.00	561.94	561.94
Bk. E. Abut.	493+09.31	9.00	561.94	561.94

BEAM 6

Location	Station	Offset	Theoretical Grade Elevations	Theoretical Grade Elevations Adjusted For Dead Load Deflection
Bk. W. Abut.	492+24.25	15.00	562.25	562.25
⊕ Brg. W. Abut.	492+25.98	15.00	562.24	562.24
A	492+35.98	15.00	562.22	562.28
B	492+45.98	15.00	562.19	562.31
C	492+55.98	15.00	562.17	562.31
D	492+65.98	15.00	562.14	562.30
E	492+75.98	15.00	562.11	562.26
F	492+85.98	15.00	562.09	562.20
G	492+95.98	15.00	562.06	562.13
⊕ Brg. E. Abut.	493+05.98	15.00	562.04	562.04
Bk. E. Abut.	493+07.71	15.00	562.03	562.03

Note:
Work this sheet with sheet 5 of 20.

NORTH EDGE OF SHOULDER

Location	Station	Offset	Theoretical Grade Elevations
W. End W. Appr. Pav't.	492+03.59	-16.00	561.83
A1	492+13.59	-16.00	561.81
A2	492+23.59	-16.00	561.78
E. End W. Appr. Pav't.	492+33.59	-16.00	561.76

NORTH EDGE OF PAVEMENT

Location	Station	Offset	Theoretical Grade Elevations
W. End W. Appr. Pav't.	492+02.52	-12.00	561.90
A1	492+12.52	-12.00	561.87
A2	492+22.52	-12.00	561.84
E. End W. Appr. Pav't.	492+32.52	-12.00	561.82

⊘ ROADWAY, P.G., AND STAGE CONSTRUCTION LINE

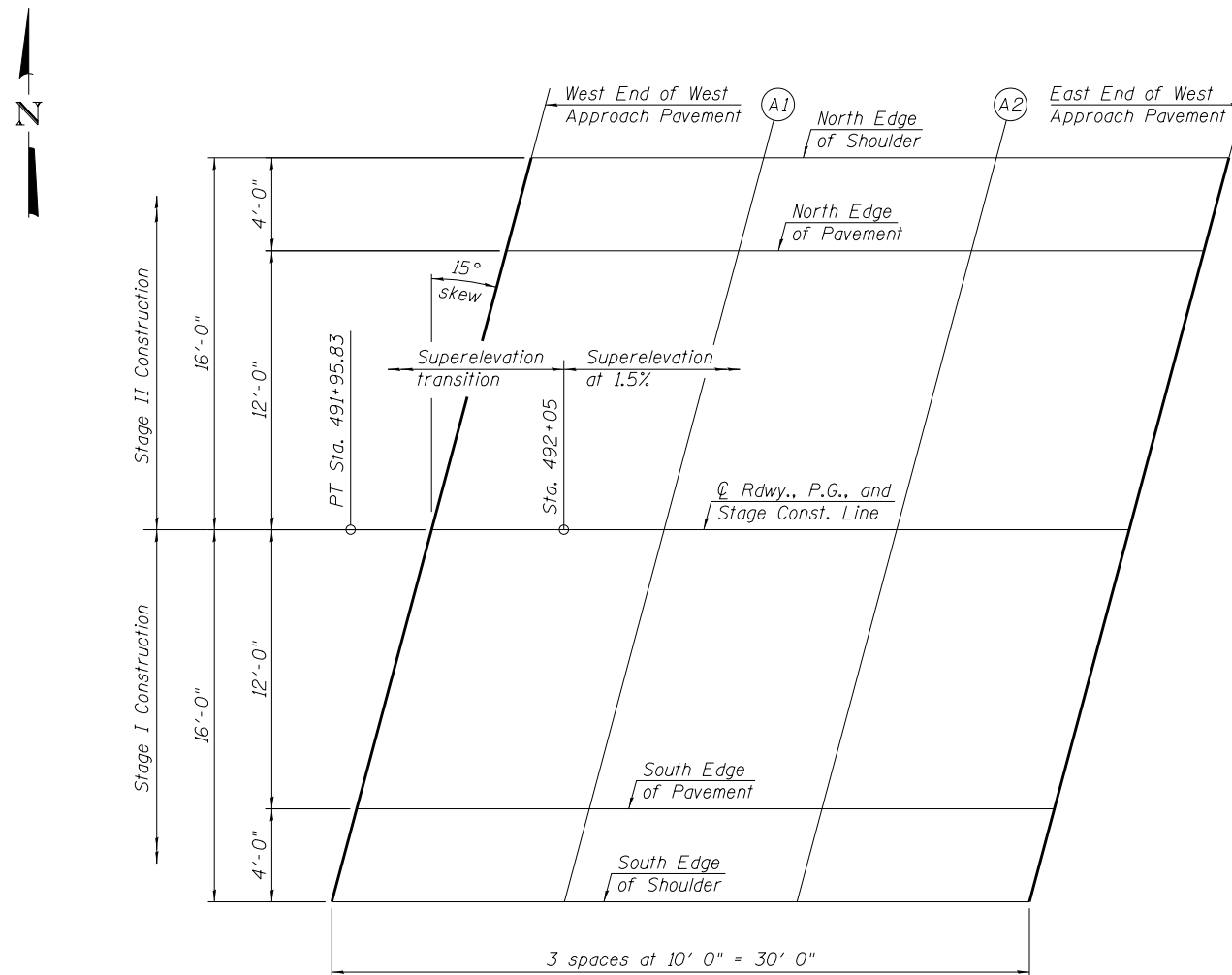
Location	Station	Offset	Theoretical Grade Elevations
W. End W. Appr. Pav't.	491+99.31	0.00	562.08
A1	492+09.31	0.00	562.06
A2	492+19.31	0.00	562.03
E. End W. Appr. Pav't.	492+29.31	0.00	562.01

SOUTH EDGE OF PAVEMENT

Location	Station	Offset	Theoretical Grade Elevations
W. End W. Appr. Pav't.	491+96.09	12.00	562.30
A1	492+06.09	12.00	562.25
A2	492+16.09	12.00	562.22
E. End W. Appr. Pav't.	492+26.09	12.00	562.20

SOUTH EDGE OF SHOULDER

Location	Station	Offset	Theoretical Grade Elevations
W. End W. Appr. Pav't.	491+95.02	16.00	562.38
A1	492+05.02	16.00	562.31
A2	492+15.02	16.00	562.28
E. End W. Appr. Pav't.	492+25.02	16.00	562.26



PLAN

NORTH EDGE OF SHOULDER

Location	Station	Offset	Theoretical Grade Elevations
W. End E. Appr. Pav't.	493+14.98	-16.00	561.55
A3	493+24.98	-16.00	561.53
A4	493+34.98	-16.00	561.50
E. End E. Appr. Pav't.	493+44.98	-16.00	561.47

NORTH EDGE OF PAVEMENT

Location	Station	Offset	Theoretical Grade Elevations
W. End E. Appr. Pav't.	493+13.91	-12.00	561.61
A3	493+23.91	-12.00	561.59
A4	493+33.91	-12.00	561.56
E. End E. Appr. Pav't.	493+43.91	-12.00	561.54

☉ ROADWAY, P.G., AND STAGE CONSTRUCTION LINE

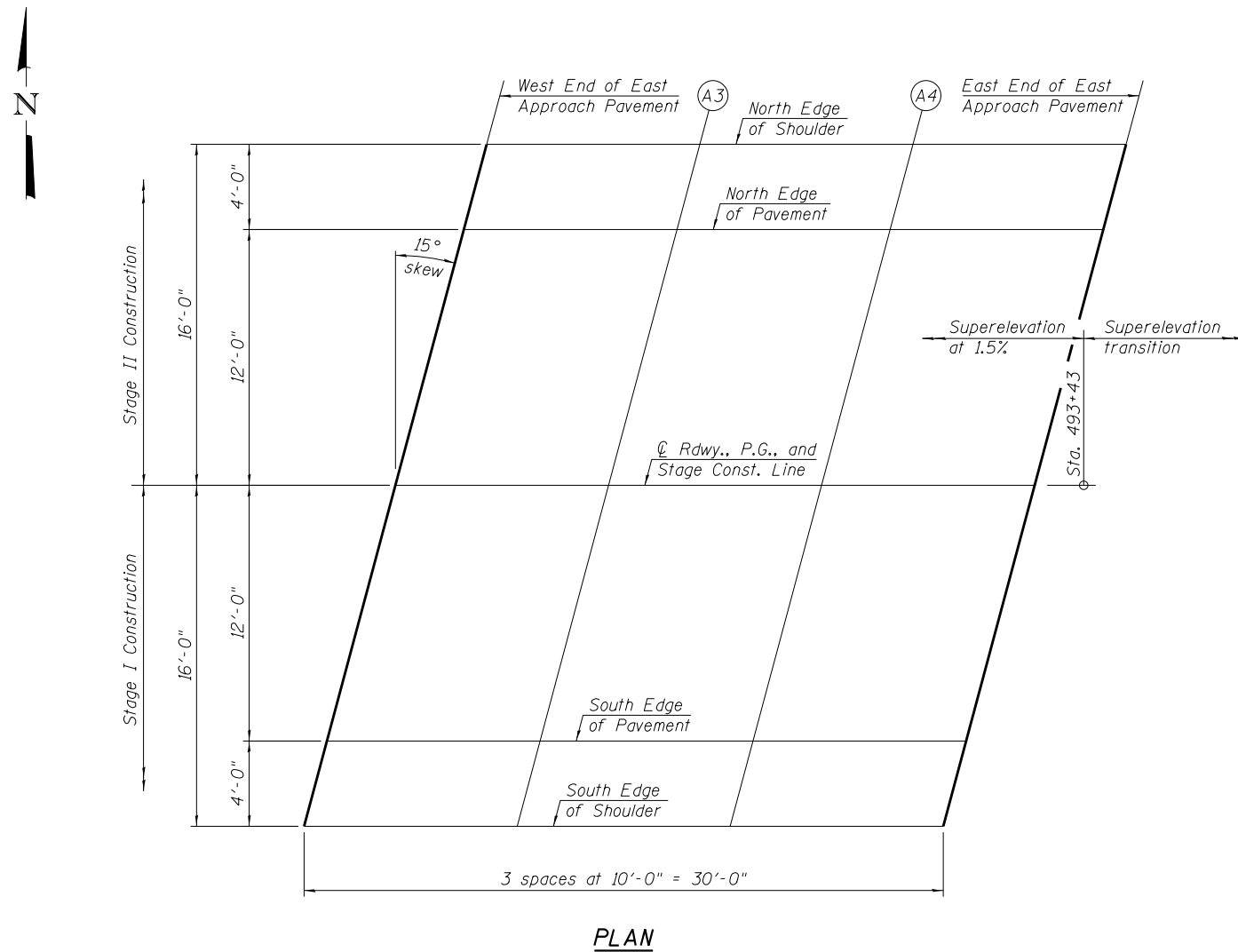
Location	Station	Offset	Theoretical Grade Elevations
W. End E. Appr. Pav't.	493+10.69	0.00	561.80
A3	493+20.69	0.00	561.78
A4	493+30.69	0.00	561.75
E. End E. Appr. Pav't.	493+40.69	0.00	561.73

SOUTH EDGE OF PAVEMENT

Location	Station	Offset	Theoretical Grade Elevations
W. End E. Appr. Pav't.	493+07.48	12.00	561.99
A3	493+17.48	12.00	561.96
A4	493+27.48	12.00	561.94
E. End E. Appr. Pav't.	493+37.48	12.00	561.91

SOUTH EDGE OF SHOULDER

Location	Station	Offset	Theoretical Grade Elevations
W. End E. Appr. Pav't.	493+06.41	16.00	562.05
A3	493+16.41	16.00	562.03
A4	493+26.41	16.00	562.00
E. End E. Appr. Pav't.	493+36.41	16.00	561.98



PLAN

Design firm
no. 184001036



USER NAME =	DESIGNED - TJZ	REVISED
FILE NAME =	CHECKED - BRD	REVISED
PLOT SCALE =	DRAWN - DLH	REVISED
PLOT DATE =	CHECKED - TJZ	REVISED

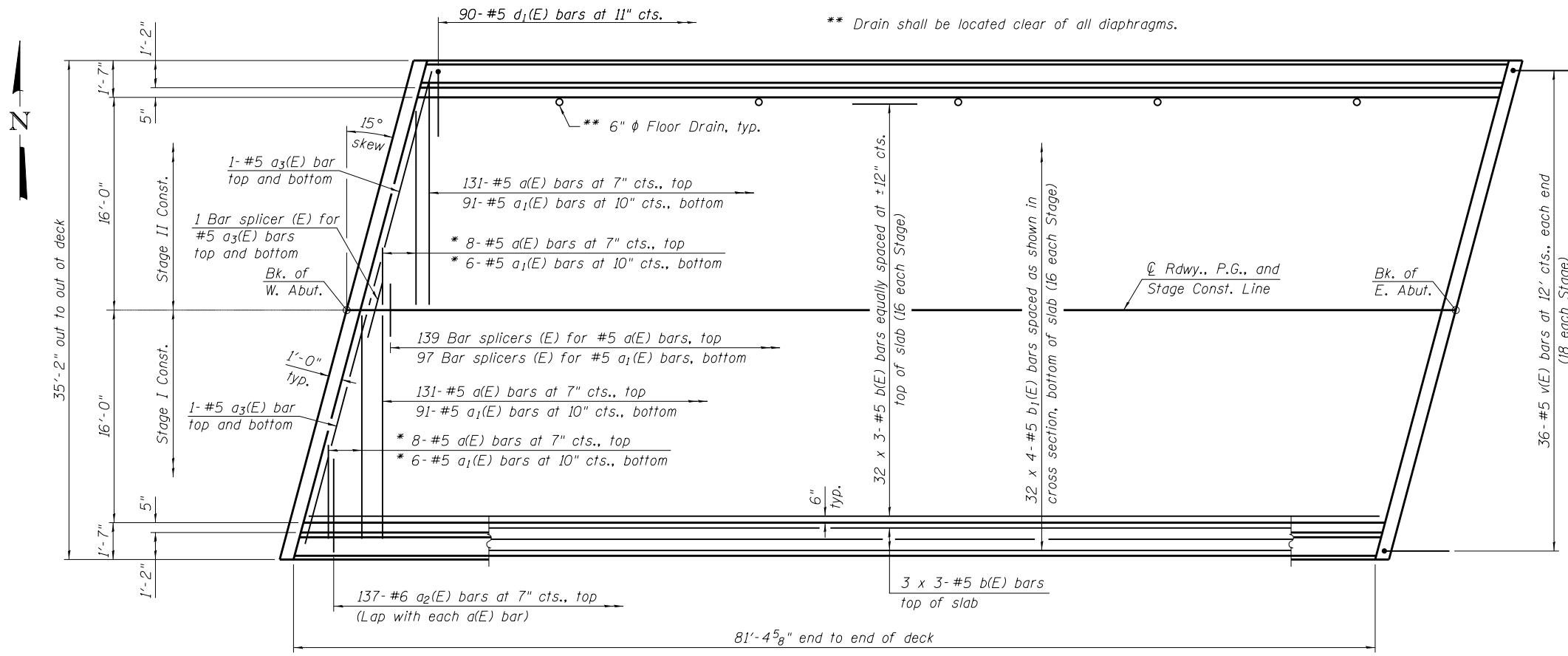
**STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION**

**TOP OF EAST APPROACH SLAB ELEVATIONS
STRUCTURE NO. 068-0513**

SHEET NO. 8 OF 20 SHEETS

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
777	10B-2	MONTGOMERY	121	84
CONTRACT NO. 72D08				

ILLINOIS FED. AID PROJECT

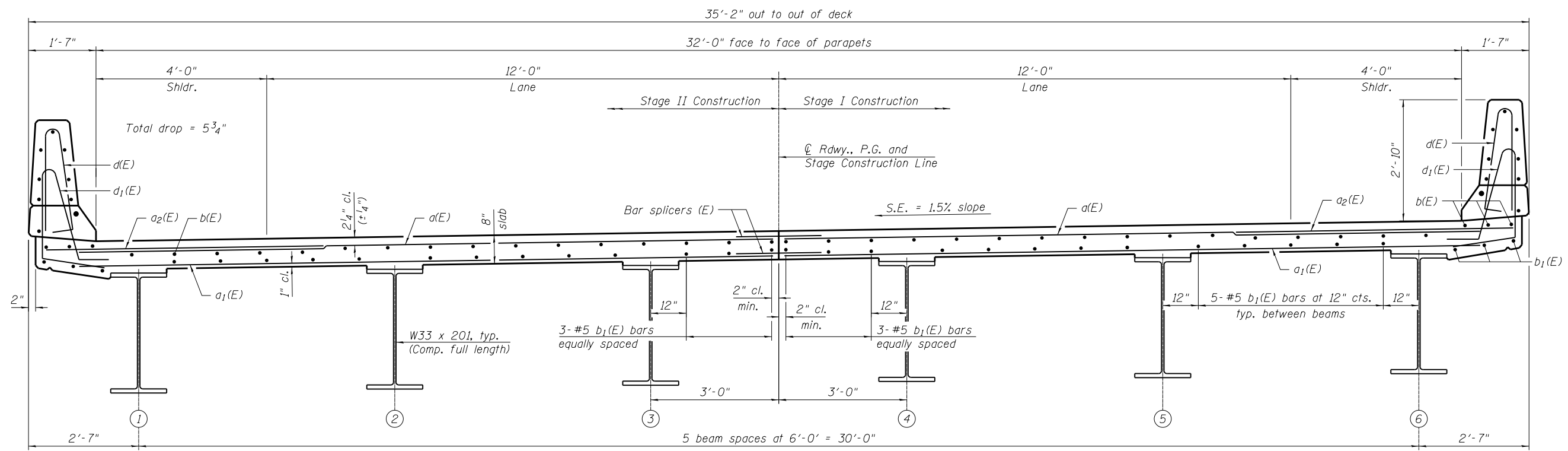


PLAN

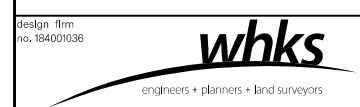
* Order a(E) and a₁(E) bars full length. Cut to fit skew and use remainder of bars in opposite end.

- Notes:
1. See sheet 10 of 20 for superstructure details and Bill of Material.
 2. Bars indicated thus 32 x 3-#5 etc. indicates 32 lines of bars with 3 lengths per line.
 3. See sheet 10 of 20 for parapet reinforcement.
 4. See sheet 18 of 20 for bar splicer details.
 5. See sheet 1 of 20 for floor drain locations.

MINIMUM BAR LAP
#5 bar = 2'-7"



CROSS SECTION
(Looking East)



USER NAME =	DESIGNED - TJZ	REVISED
FILE NAME =	CHECKED - BRD	REVISED
PLOT SCALE =	DRAWN - DLH	REVISED
PLOT DATE =	CHECKED - TJZ	REVISED

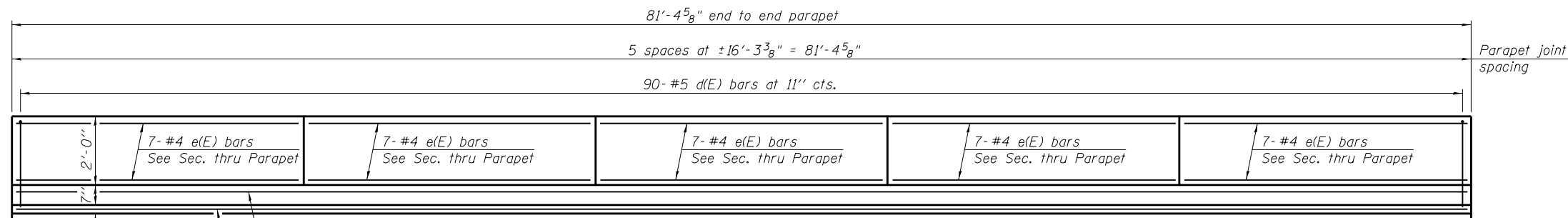
STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

SUPERSTRUCTURE
STRUCTURE NO. 068-0513

SHEET NO. 9 OF 20 SHEETS

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
777	10B-2	MONTGOMERY	121	85
CONTRACT NO. 72D08				

ILLINOIS FED. AID PROJECT

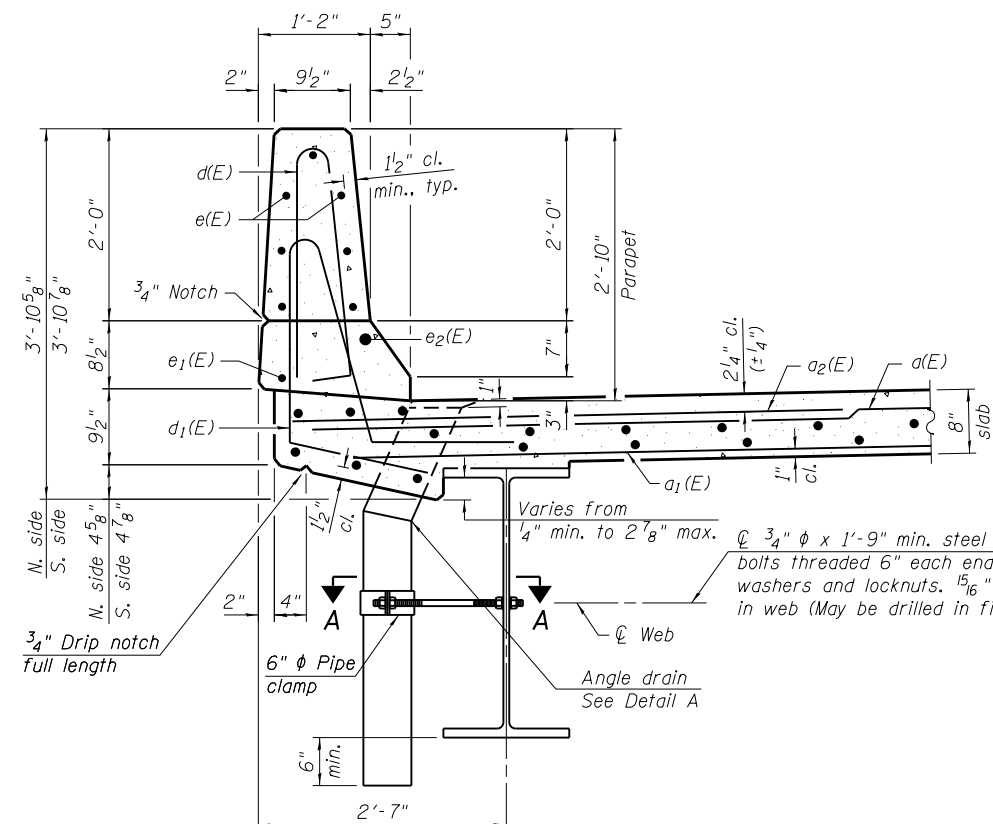


INSIDE ELEVATION OF PARAPET

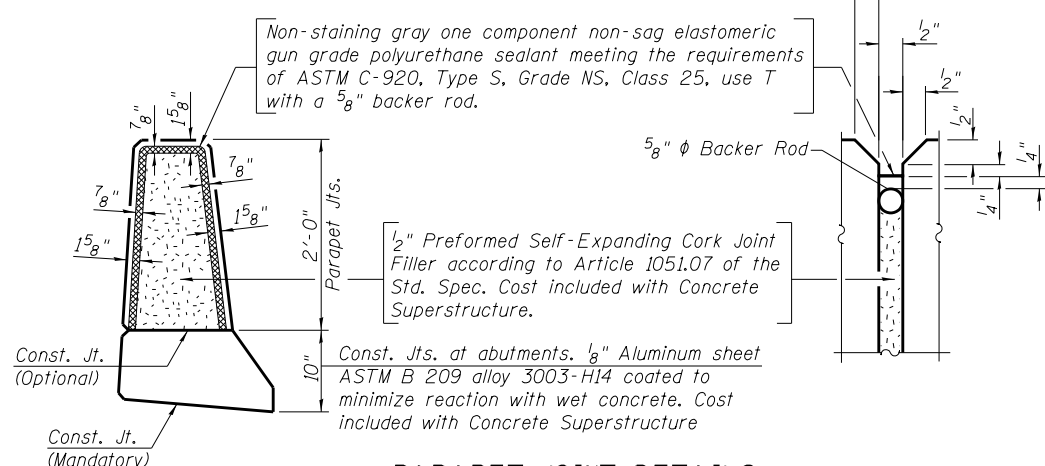
MINIMUM BAR LAP

(Parapet)
 #4 bar = 2'-0"
 #8 bar = 5'-2"

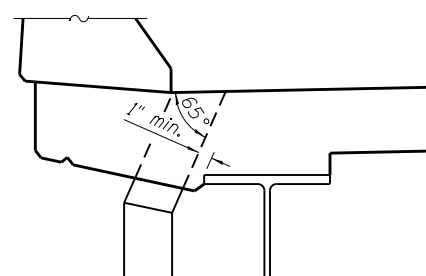
Aluminum sheet joint in parapet typ. Each End



SECTION THRU PARAPET



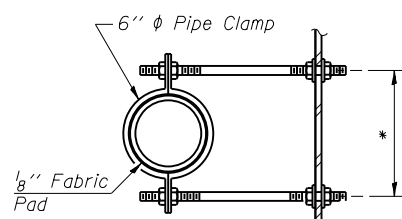
PARAPET JOINT DETAILS



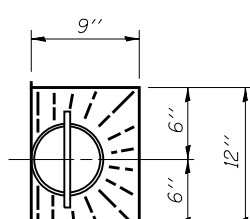
DETAIL A

Notes:

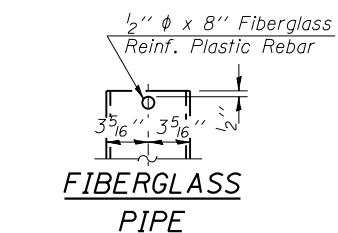
1. Floor drains need not be painted.
2. Fiberglass pipe shall conform to ASTM D 2996, with short-time rupture strength hoop tensile stress of 30,000 p.s.i. minimum.
3. Galvanize clamping device according to AASHTO M232. Cost of clamping device and inserts is included with Floor Drains.



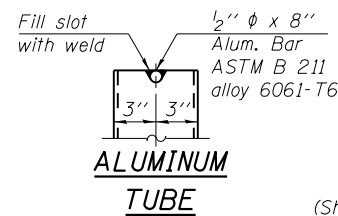
SECTION A-A
 *Dimension as required by Pipe Clamp



TOP PLAN

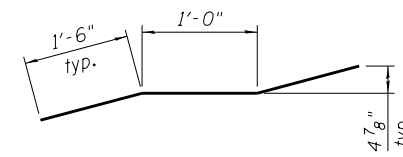


FIBERGLASS PIPE

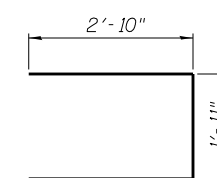


ALUMINUM TUBE

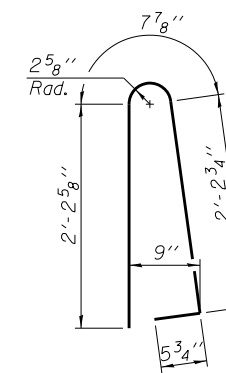
TOP PLAN (Showing Aluminum Tube)



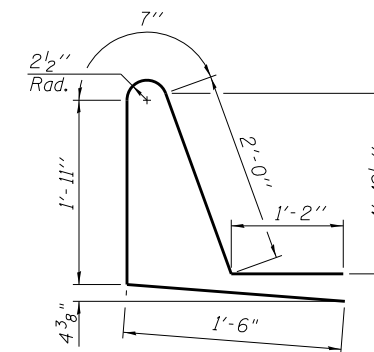
BAR m4(E)



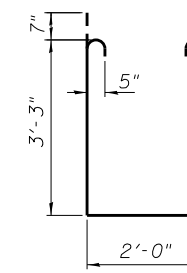
BAR s(E)



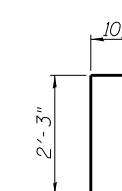
BAR d(E)



BAR d1(E)



BAR s1(E)



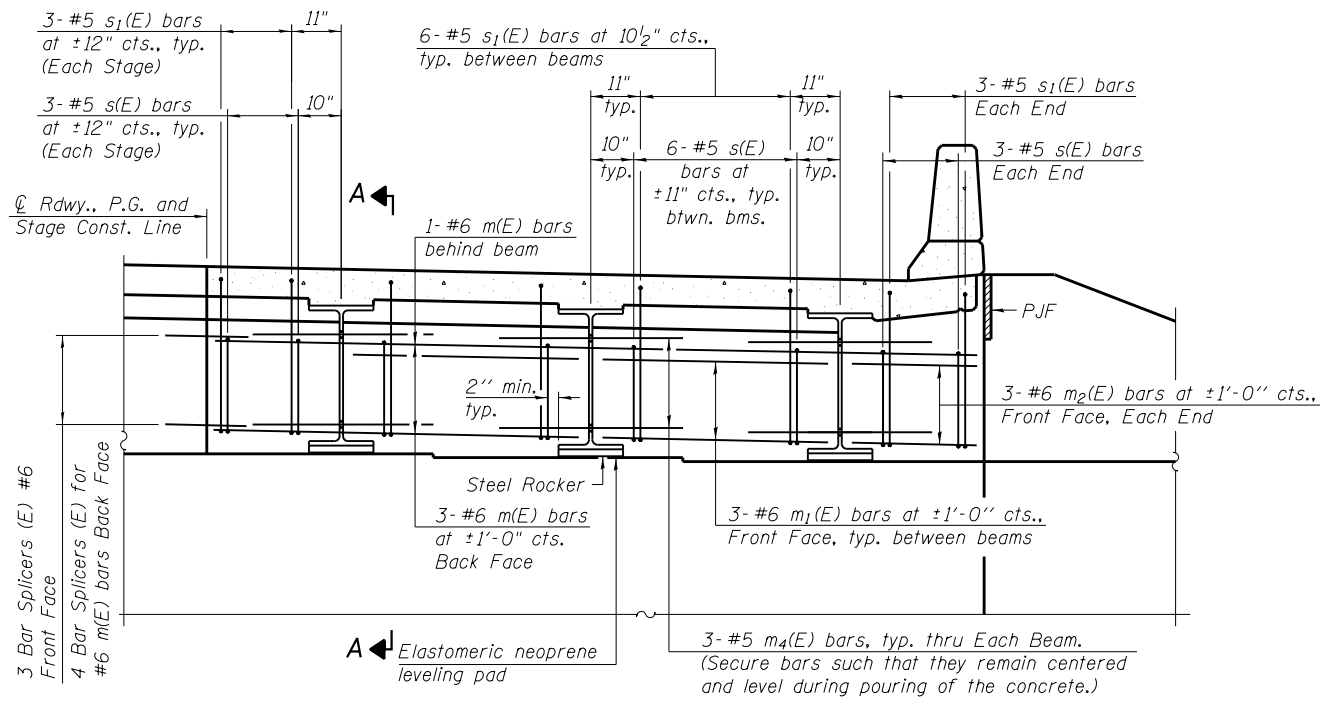
BAR v(E)

SUPERSTRUCTURE BILL OF MATERIAL

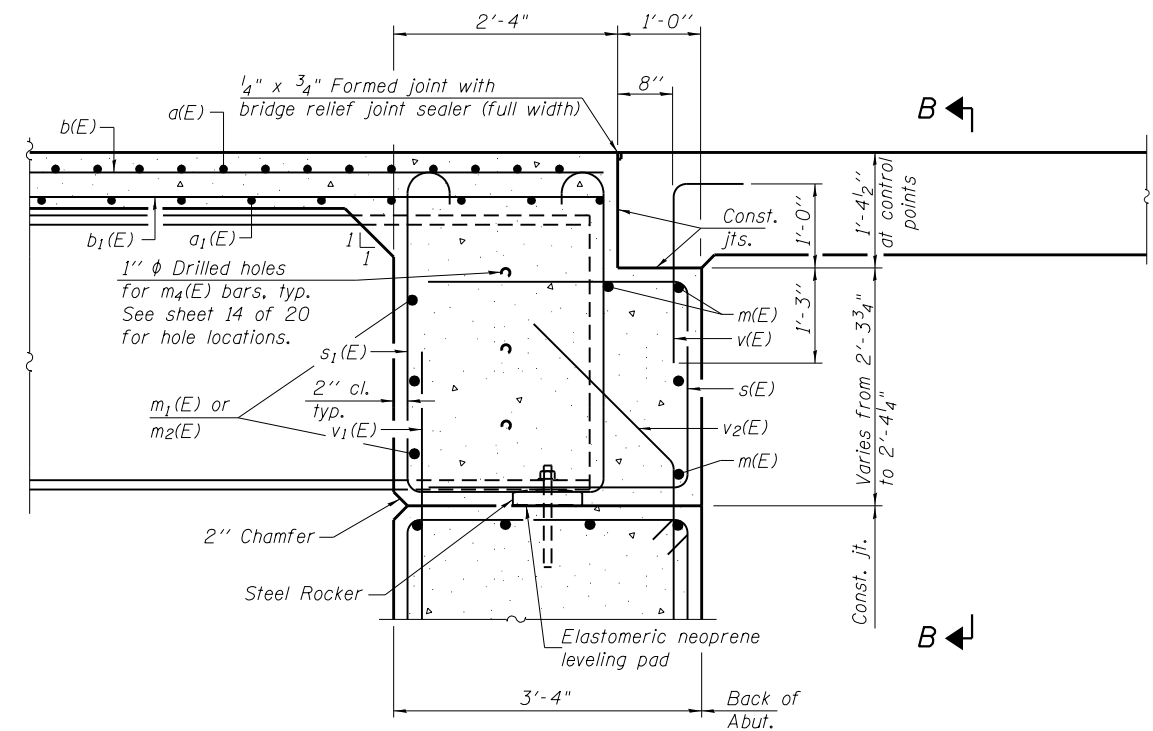
Bar	No.	Size	Length	Shape
a(E)	278	#5	17'-1"	—
a1(E)	194	#5	16'-9"	—
a2(E)	274	#6	6'-6"	—
a3(E)	8	#5	17'-8"	—
b(E)	114	#5	28'-9"	—
b1(E)	128	#5	22'-3"	—
d(E)	180	#5	5'-7"	⌋
d1(E)	180	#5	7'-2"	⌋
e(E)	70	#4	15'-11"	—
e1(E)	6	#4	28'-5"	—
e2(E)	6	#8	30'-6"	—
m(E)	16	#6	17'-10"	—
m1(E)	24	#6	5'-9"	—
m2(E)	12	#6	2'-3"	—
m4(E)	36	#5	4'-0"	—
s(E)	72	#5	7'-7"	⌋
s1(E)	72	#5	9'-8"	⌋
v(E)	72	#5	3'-1"	⌋

Concrete Superstructure	Cu. Yd.	118.2
Reinforcement Bars, Epoxy Coated	Pound	23,650

Bars indicated thus 1 x 3-#8 etc. indicates 1 line of bars with 3 lengths per line.



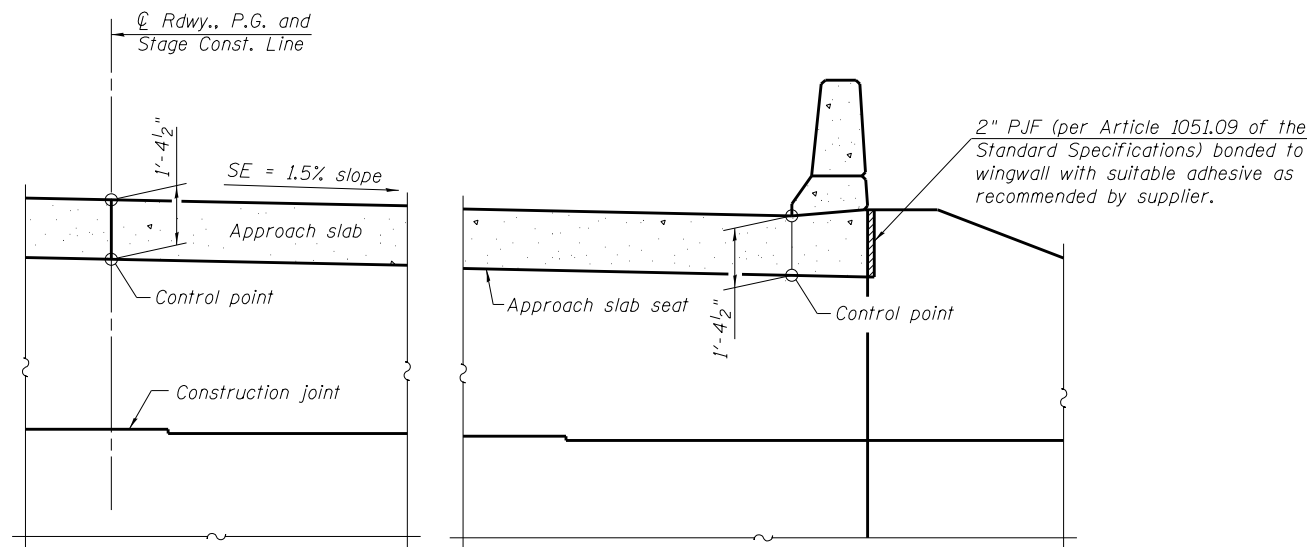
DIAPHRAGM ELEVATION AT ABUTMENT
(Looking West)



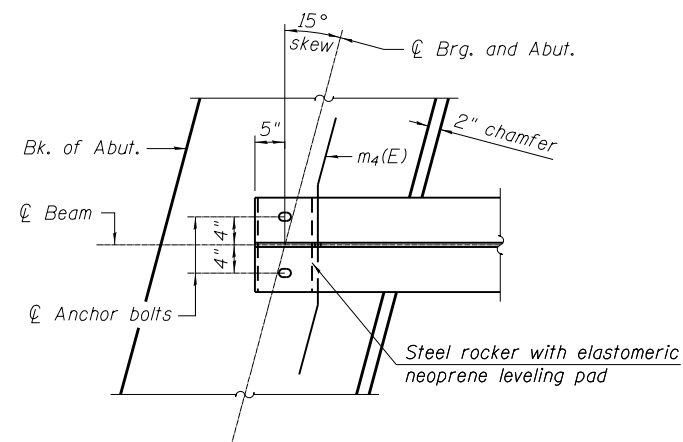
SECTION A-A
(at Rt. L's)

TOP OF CORBEL ELEVATIONS

Abutment	Location	Corbel Elevation
West Abutment	Inside Face of North Parapet	560.38
	Centerline Roadway	560.63
	Inside Face of South Parapet	560.88
East Abutment	Inside Face of North Parapet	560.18
	Centerline Roadway	560.43
	Inside Face of South Parapet	560.68



SECTION B-B
(Looking West)



PARTIAL PLAN AT ABUTMENT
(Showing bottom flange of beam)

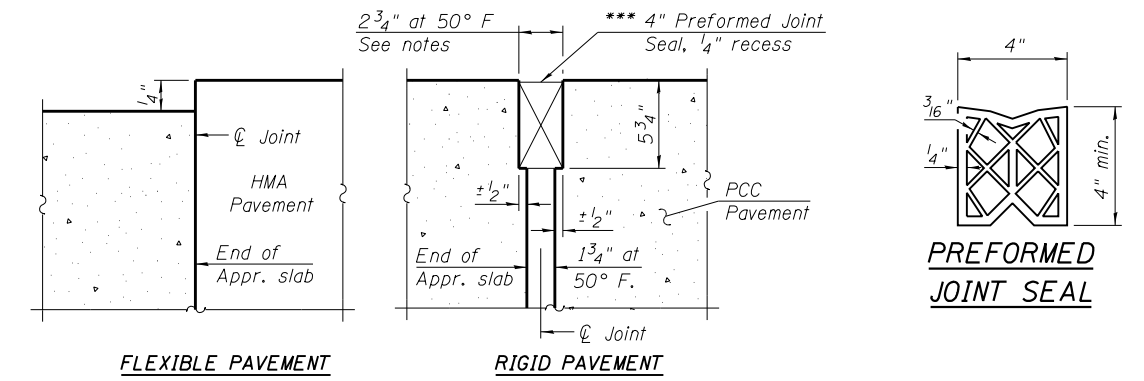
Notes:

1. Reinforcement bars in diaphragm are billed with superstructure on sheet 10 of 20.
2. Concrete in diaphragm is included with Concrete Superstructure on sheet 10 of 20.
3. For details of bars s(E), s1(E) and v(E) see sheet 10 of 20.
4. The approach slab seat shall have a constant slope determined from the control points shown.
5. For bearing details see sheet 15 of 20.

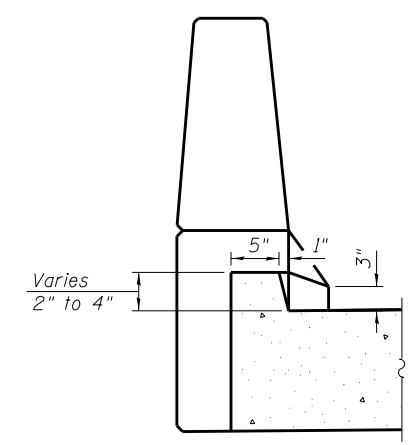
Notes:

1. See sheet 13 of 20 for Sections C-C & D-D and View E-E.
2. $a_4(E)$ and $a_5(E)$ bar spacings measured along \varnothing Rdwy.
3. The joint opening shall be determined per Article 520.04 except that on jointless structures, the distance described as the bridge length between the nearest fixed bearings each way from the joint shall be taken as half the bridge length plus the approach slab length. The minimum dimension shall be $1\frac{1}{2}$ " for installation purposes.

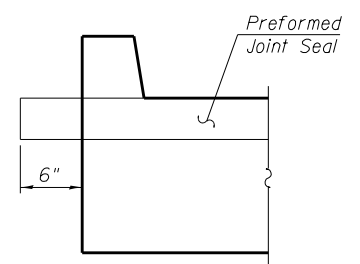
*** Cost included with Concrete Superstructure.



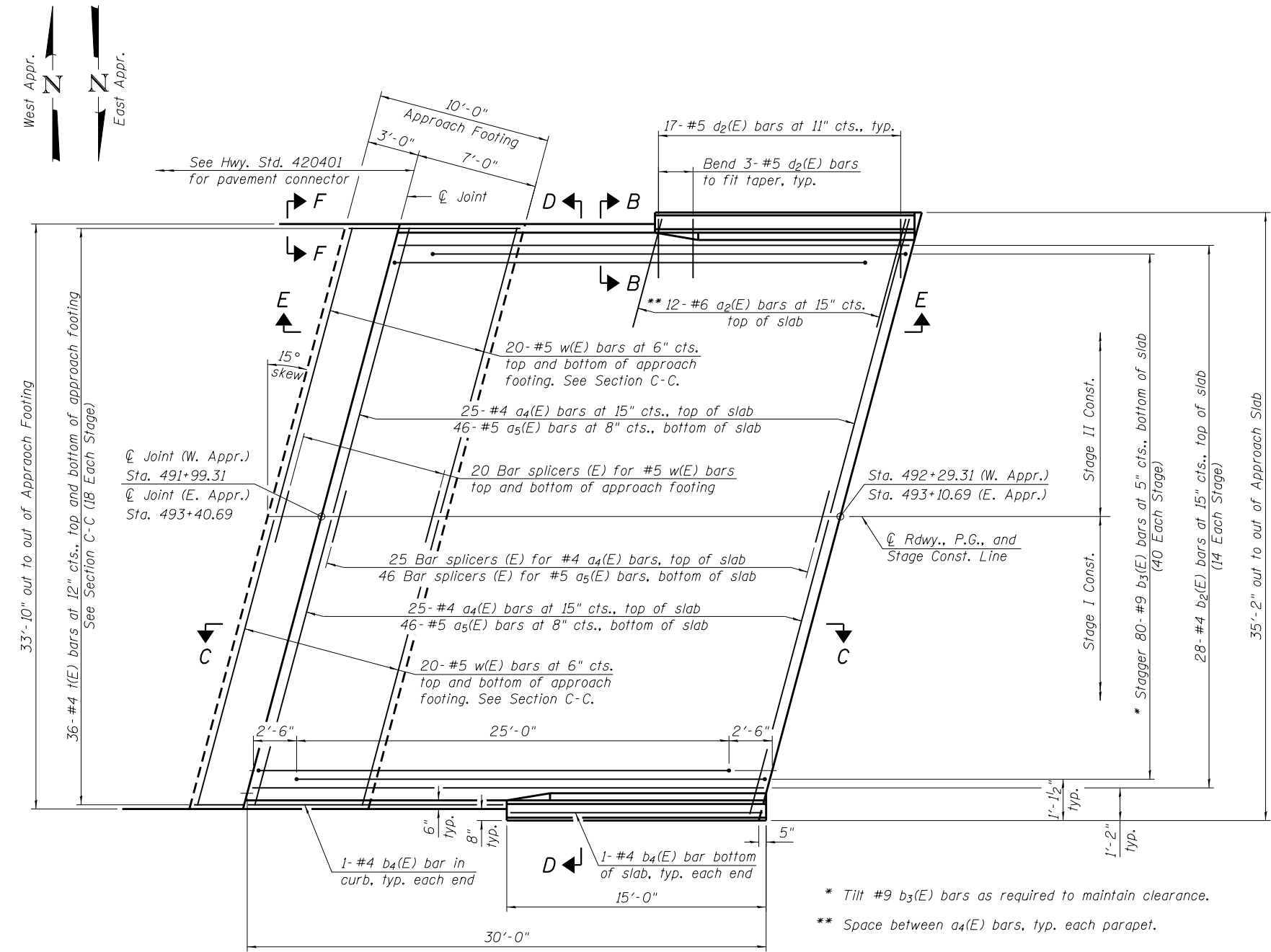
DETAIL A



VIEW B-B



VIEW F-F

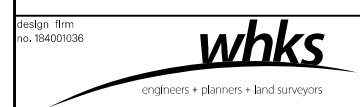


PLAN

(West Approach shown, East Approach similar.)

- * Tilt #9 $b_3(E)$ bars as required to maintain clearance.
- ** Space between $a_4(E)$ bars, typ. each parapet.

(Sheet 1 of 2)



USER NAME =	DESIGNED - TJZ	REVISED
FILE NAME =	CHECKED - BRD	REVISED
PLOT SCALE =	DRAWN - DLH	REVISED
PLOT DATE =	CHECKED - TJZ	REVISED

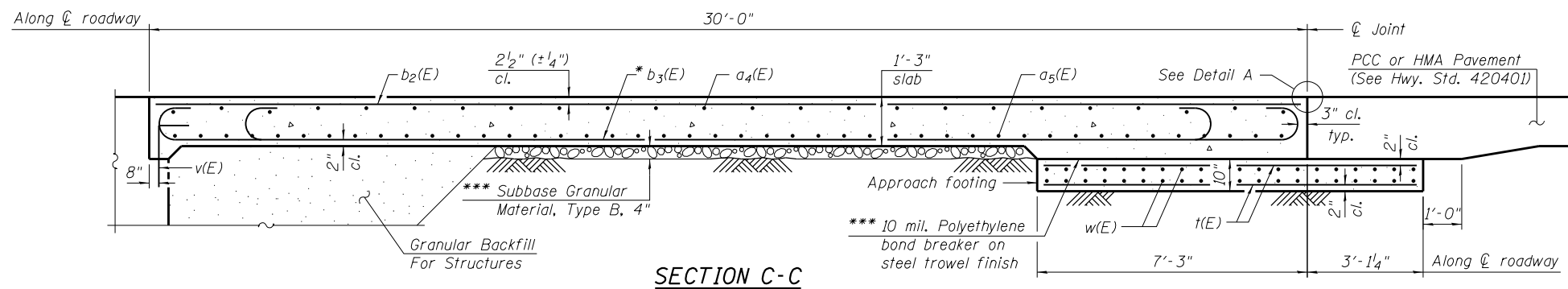
STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

BRIDGE APPROACH SLAB DETAILS
STRUCTURE NO. 068-0513

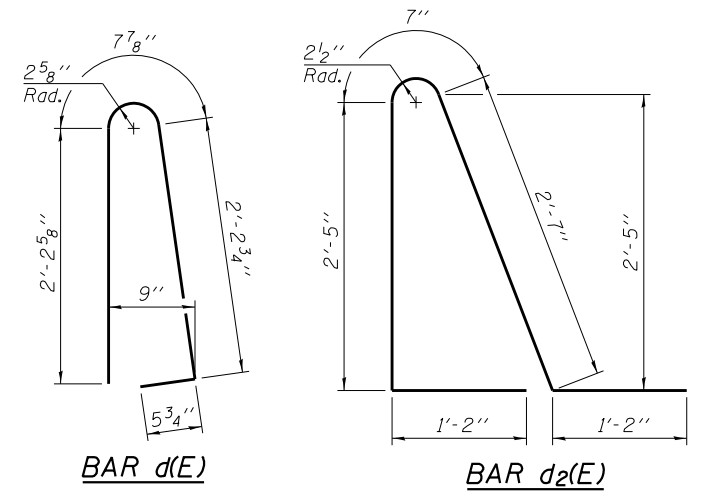
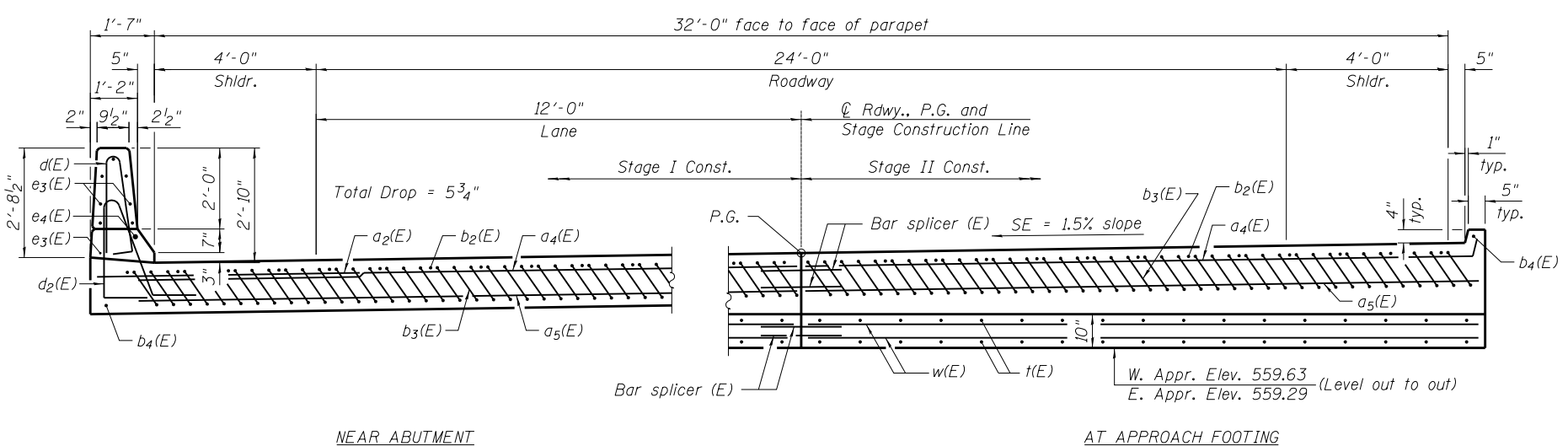
SHEET NO. 12 OF 20 SHEETS

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
777	10B-2	MONTGOMERY	121	88
CONTRACT NO. 72D08				

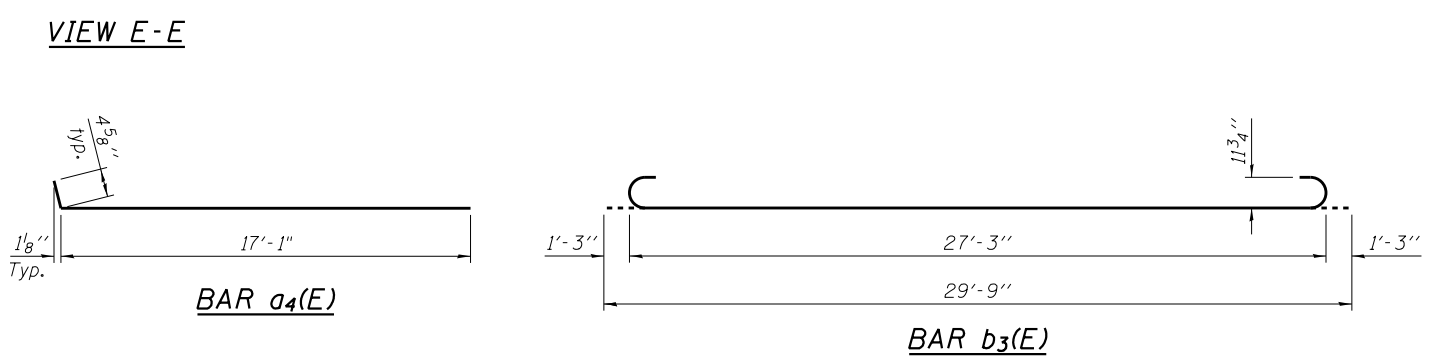
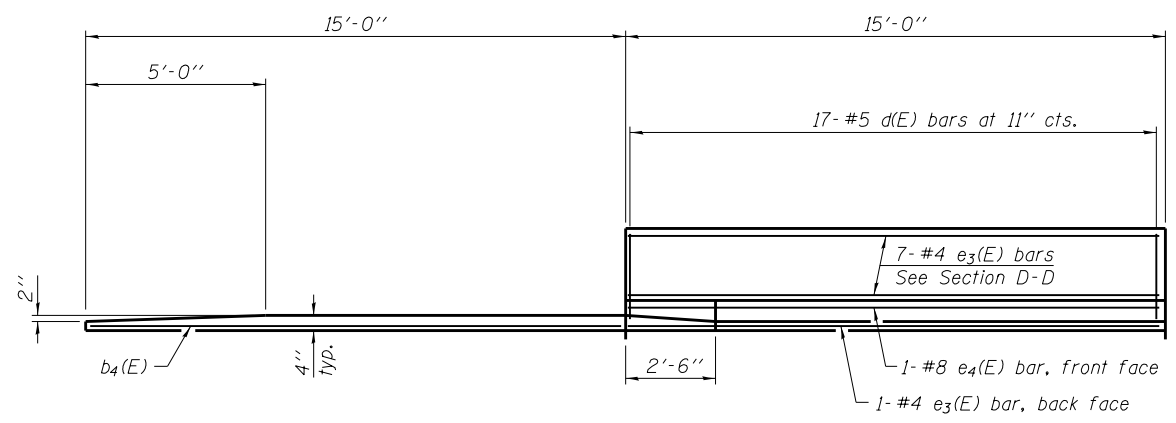
ILLINOIS FED. AID PROJECT



- Notes:
1. See sheet 12 of 20 for Detail A and View B-B.
 2. Approach slab and parapet concrete shall be paid for as Concrete Superstructure.
 3. Approach footing concrete shall be paid for as Concrete Structures.
 4. Reinforcement shall be paid for as Reinforcement Bars, Epoxy Coated.
 5. For v(E) bar details, see sheet 10 of 20.
 6. For bar splicer details, see sheet 18 of 20.
 7. Cost of excavation for approach footing included with Concrete Structures.
 8. For Granular Backfill for Structures and drainage treatment details, see sheet 2 of 20.
 9. For additional parapet details, see sheet 10 of 20.

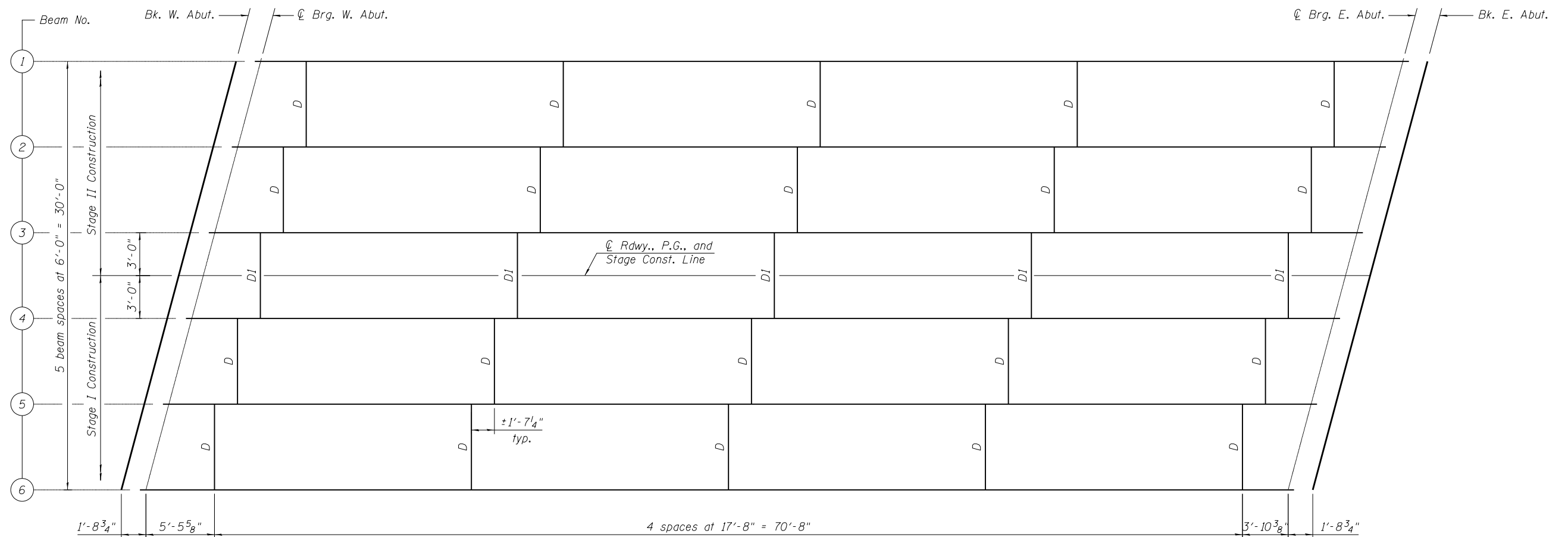


* Tilt #9 b3(E) bars as required to maintain clearance.
 *** Cost included with Concrete Superstructure.

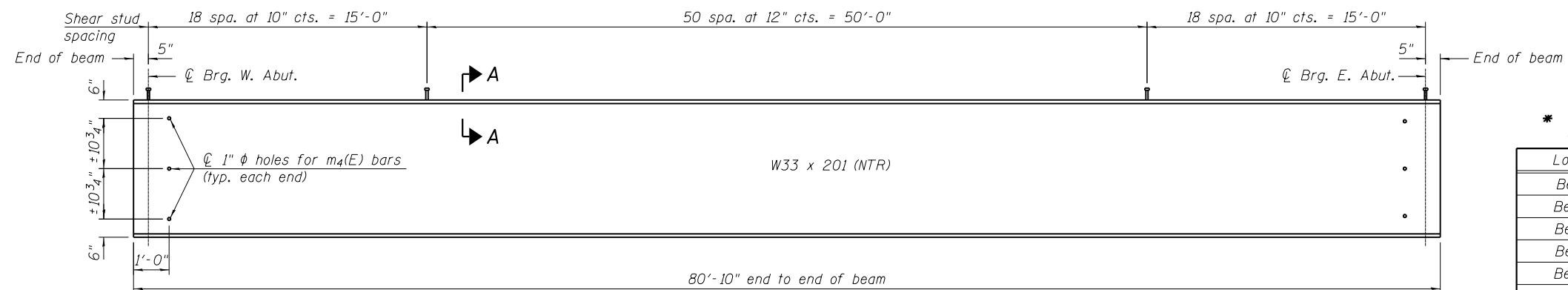


**TWO APPROACHES
 BILL OF MATERIAL**

Bar	No.	Size	Length	Shape
a2(E)	48	#6	6'-6"	—
a4(E)	100	#4	17'-6"	—
a5(E)	184	#5	17'-2"	—
b2(E)	56	#4	29'-8"	—
b3(E)	160	#9	29'-9"	U
b4(E)	8	#4	14'-8"	—
d(E)	68	#5	5'-7"	U
d2(E)	68	#5	7'-11"	U
e3(E)	32	#4	14'-8"	—
e4(E)	4	#8	14'-8"	—
t(E)	144	#4	10'-0"	—
w(E)	160	#5	17'-2"	—
Concrete Structures		Cu. Yd.	21.8	
Concrete Superstructure		Cu. Yd.	111.0	
Reinforcement Bars, Epoxy Coated		Pound	27,570	
Bar Splicers		Each	222	



PLAN

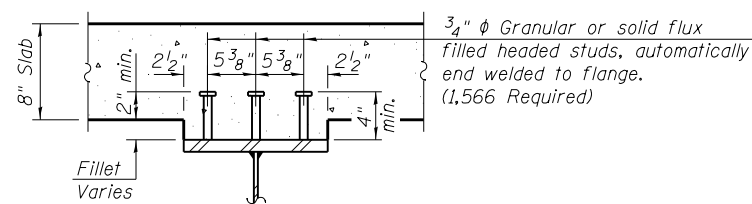


BEAM ELEVATION

*** TOP OF BEAM ELEVATIONS**

Location	☉ Brg. W. Abut.	☉ Brg. E. Abut.
Beam 1	561.05	560.85
Beam 2	561.15	560.94
Beam 3	561.24	561.04
Beam 4	561.33	561.13
Beam 5	561.43	561.23
Beam 6	561.52	561.32

* For Fabrication Only.



SECTION A-A

Notes:

1. All structural steel shown shall be AASHTO M270, Grade 50W.
2. See Sheet 15 of 20 for Interior Diaphragm Details.
3. See Sheet 15 of 20 for Anchor Bolt Placement.
4. Load carrying components designated "NTR" shall conform to the Impact Testing Requirement, Zone 2.
5. All diaphragms shall be installed as steel is erected and secured with erection pins and bolts except as otherwise noted.

Design firm
no. 184001036



USER NAME =	DESIGNED - TJZ	REVISED
FILE NAME =	CHECKED - BRD	REVISED
PLOT SCALE =	DRAWN - DLH	REVISED
PLOT DATE =	CHECKED - TJZ	REVISED

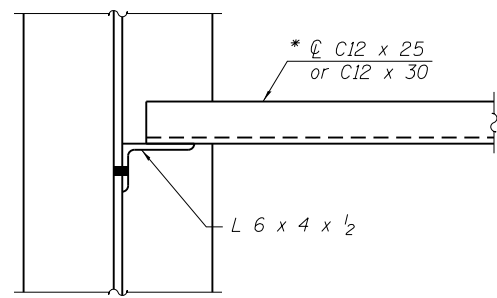
**STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION**

**FRAMING PLAN
STRUCTURE NO. 068-0513**

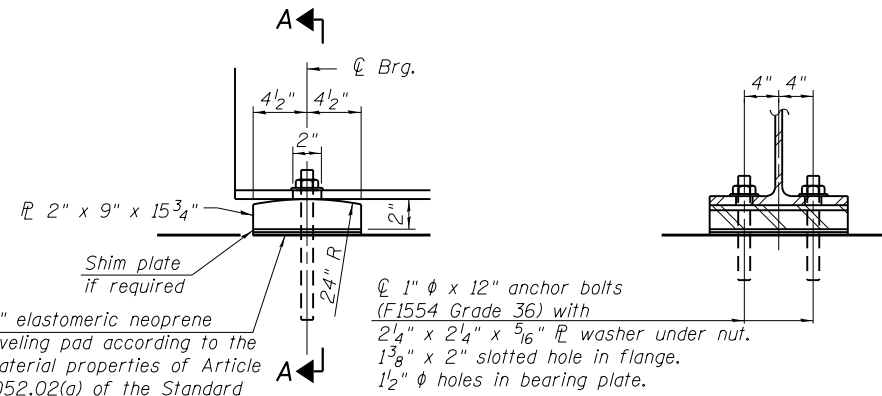
SHEET NO. 14 OF 20 SHEETS

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
777	10B-2	MONTGOMERY	121	90
CONTRACT NO. 72D08				

ILLINOIS FED. AID PROJECT



SECTION B-B



ELEVATION AT ABUTMENT

SECTION A-A

1/8" elastomeric neoprene leveling pad according to the material properties of Article 1052.02(a) of the Standard Specifications. Cost included with Structural Steel.

Shim plate if required

1" ϕ x 12" anchor bolts (F1554 Grade 36) with 2 1/4" x 2 1/4" x 5/16" \mathbb{R} washer under nut. 1 3/8" x 2" slotted hole in flange. 1 1/2" ϕ holes in bearing plate.

FIXED BEARING

- Notes:
- Anchor bolts shall be ASTM F1554 all-thread (or an Engineer-approved alternate material) of the grade(s) and diameter(s) specified. The corresponding specified grade of AASHTO M314 anchor bolts may be used in lieu of ASTM F1554.
 - Anchor bolts at fixed bearings may be either cast in place or installed in holes drilled after the supported member is in place.
 - Drilled and set anchor bolts shall be installed according to Article 521.06 of the Standard Specifications.
 - The bearing plates, diaphragms, and connecting angles shall conform to the requirements of AASHTO M 270 Grade 50W.
 - Two hardened washers required for each set of oversized and slotted holes.

INTERIOR BEAM MOMENT TABLE		
		0.5 Span
I_s	(in ⁴)	11600
$I_c(n)$	(in ⁴)	27998
$I_c(3n)$	(in ⁴)	19902
$I_c(cr)$	(in ⁴)	
S_s	(in ³)	686.0
$S_c(n)$	(in ³)	974.9
$S_c(3n)$	(in ³)	869.0
$S_c(cr)$	(in ³)	
DC1	(k/')	0.864
M _{DC1}	(k)	691
DC2	(k/')	0.150
M _{DC2}	(k)	120
DW	(k/')	0.267
M _{DW}	(k)	213
M \mathbb{L} + IM	(k)	1060
M _u (Strength I)	(k)	3188
$\phi_r M_n$	(k)	4424
f_s DC1	(ksi)	12.1
f_s DC2	(ksi)	1.7
f_s DW	(ksi)	2.9
f_s (\mathbb{L} +IM)	(ksi)	13.0
f_s (Service II)	(ksi)	33.6
0.95R _n F _y	(ksi)	47.5
f_s (Total)(Strength I)	(ksi)	
$\phi_r F_n$	(ksi)	
V _r	(k)	24.5

INTERIOR BEAM REACTION TABLE		
		Abut.
R _{DC1}	(k)	35.4
R _{DC2}	(k)	6.0
R _{DW}	(k)	10.7
R \mathbb{L} + IM	(k)	78.2
R _{Total}	(k)	130.3

I_s, S_s : 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 (in⁴ and in³).

$I_c(n), S_c(n)$: Composite moment of inertia and section modulus of the steel and deck based upon the modular ratio, "n", used for computing f_s (Total-Strength I, and Service II) in uncracked sections due to short-term composite live loads (in⁴ and in³).

$I_c(3n), S_c(3n)$: Composite moment of inertia and section modulus of the steel and deck based upon 3 times the modular ratio, "3n", used for computing f_s (Total-Strength I, and Service II) in uncracked sections, due to long-term composite (superimposed) dead loads (in⁴ and in³).

$I_c(cr), S_c(cr)$: Composite moment of inertia and section modulus of the steel and longitudinal deck reinforcement, used for computing f_s (Total-Strength I and Service II) in cracked sections, due to both short-term composite live loads and long-term composite (superimposed) dead loads (in⁴ and in³).

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

M_{DC1}: Un-factored moment due to non-composite dead load (kip-ft.).

DC2: Un-factored long-term composite (superimposed excluding future wearing surface) dead load (kips/ft.).

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

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

M \mathbb{L} + IM: Un-factored live load moment plus dynamic load allowance (impact) (kip-ft.).

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

1.25 (M_{DC1} + M_{DC2}) + 1.5 M_{DW} + 1.75 M \mathbb{L} + IM

$\phi_r M_n$: Compact composite positive moment capacity computed according to Article 6.10.7.1 or non-slender negative moment capacity according to Article A6.1.1 or A6.1.2 (kip-ft.).

f_s DC1: Un-factored stress at edge of flange for controlling steel flange due to vertical non-composite dead loads as calculated below (ksi).

M_{DC1} / S_{nc}

f_s DC2: Un-factored stress at edge of flange for controlling steel flange due to vertical composite dead loads as calculated below (ksi).

M_{DC2} / S_{c(3n)} or M_{DC2} / S_{c(cr)} as applicable.

f_s DW: Un-factored stress at edge of flange for controlling steel flange due to vertical composite future wearing surface loads as calculated below (ksi).

M_{DW} / S_{c(3n)} or M_{DW} / S_{c(cr)} as applicable.

f_s (\mathbb{L} +IM): Un-factored stress at edge of flange for controlling steel flange due to vertical composite live load plus impact loads as calculated below (ksi).

M \mathbb{L} + IM / S_{c(n)} or M \mathbb{L} + IM / S_{c(cr)} as applicable.

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

f_s DC1 + f_s DC2 + f_s DW + 1.3 f_s (\mathbb{L} + IM)

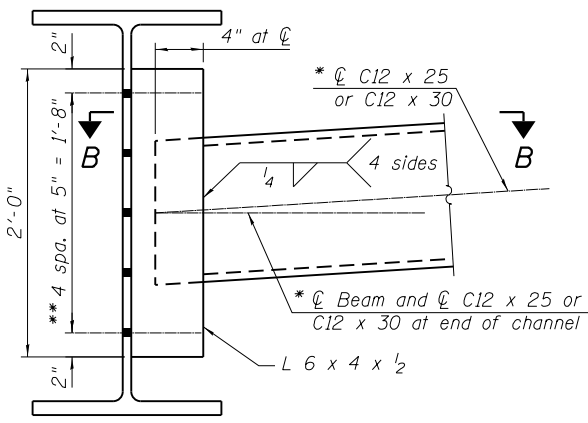
0.95R_nF_y: Composite stress capacity for Service II loading according to Article 6.10.4.2 (ksi).

f_s (Total)(Strength I): Sum of stresses as computed below on non-compact section (ksi).

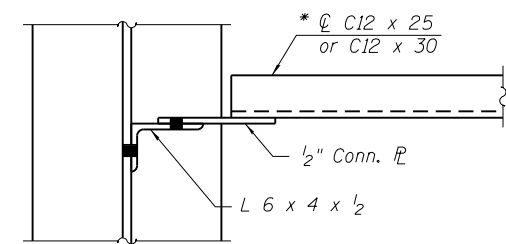
1.25 (f_s DC1 + f_s DC2) + 1.5 f_s DW + 1.75 f_s (\mathbb{L} + IM)

$\phi_r F_n$: Non-Compact composite positive or negative stress capacity for Strength I loading according to Article 6.10.7 or 6.10.8 (ksi).

V_r: Maximum factored shear range in span computed according to Article 6.10.10.

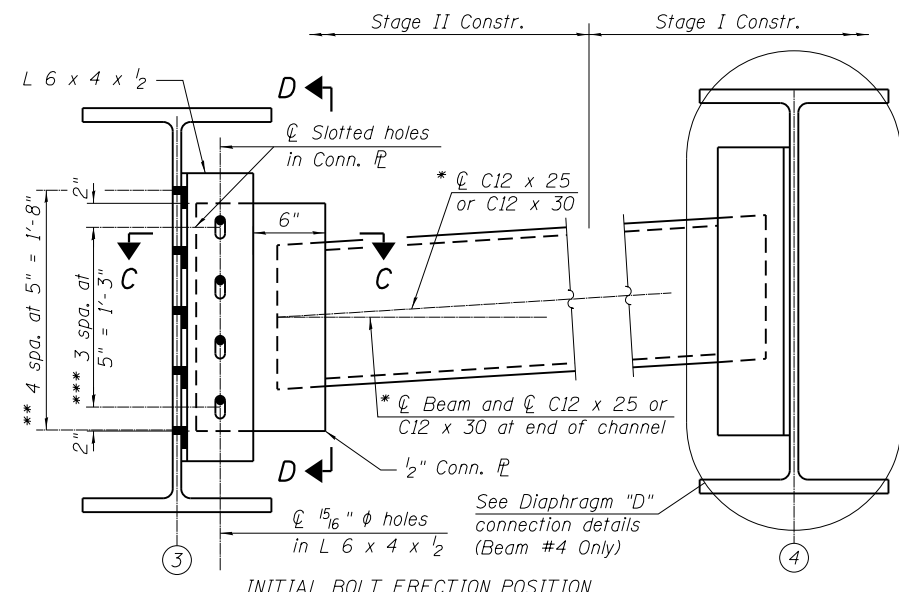


INTERIOR DIAPHRAGM "D" DETAILS

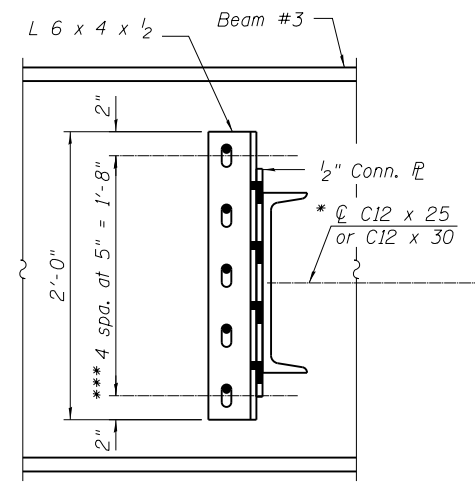


SECTION C-C

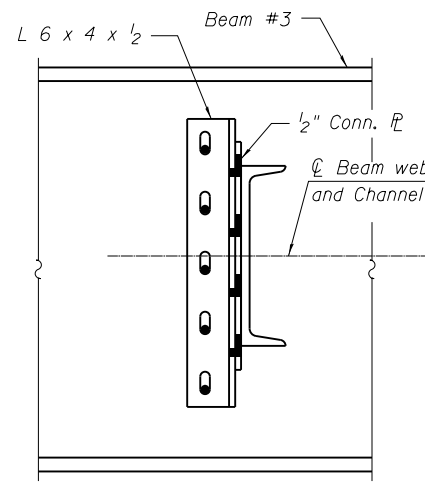
- * Alternate channels are permitted to facilitate material acquisition. Calculated weight of structural steel is based on the lighter section. The alternate, if utilized, shall be provided at no additional cost to the Department.
- ** 3/4" ϕ HS bolts, 1 5/16" ϕ holes.
- *** 3/4" ϕ H.S. bolts, on the south side of Beam 3 provide 1 3/16" x 1 7/8" vertical slotted holes in the L 6 x 4 x 1/2 at the web and in the connection \mathbb{R} . Bolts in slotted holes shall be finger tightened until Stage II pour is completed. Position slots so bolts move from one end with no concrete load to the opposite end under the deck load. The slotted holes in the L 6 x 4 x 1/2 and connection \mathbb{R} shall be positioned as shown to allow the bolts to move to the final erection position under deck load. The holes shall be positioned to allow maximum bolt displacement without laterally stressing the beams.



INTERIOR DIAPHRAGM "D1" DETAILS

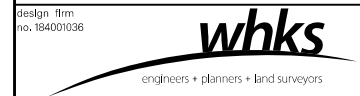


INITIAL BOLT ERECTION POSITION



FINAL BOLT ERECTION POSITION AFTER STAGE II DECK POUR

SECTION D-D



USER NAME =	DESIGNED - TJZ	REVISED
FILE NAME =	CHECKED - BRD	REVISED
PLOT SCALE =	DRAWN - DLH	REVISED
PLOT DATE =	CHECKED - TJZ	REVISED

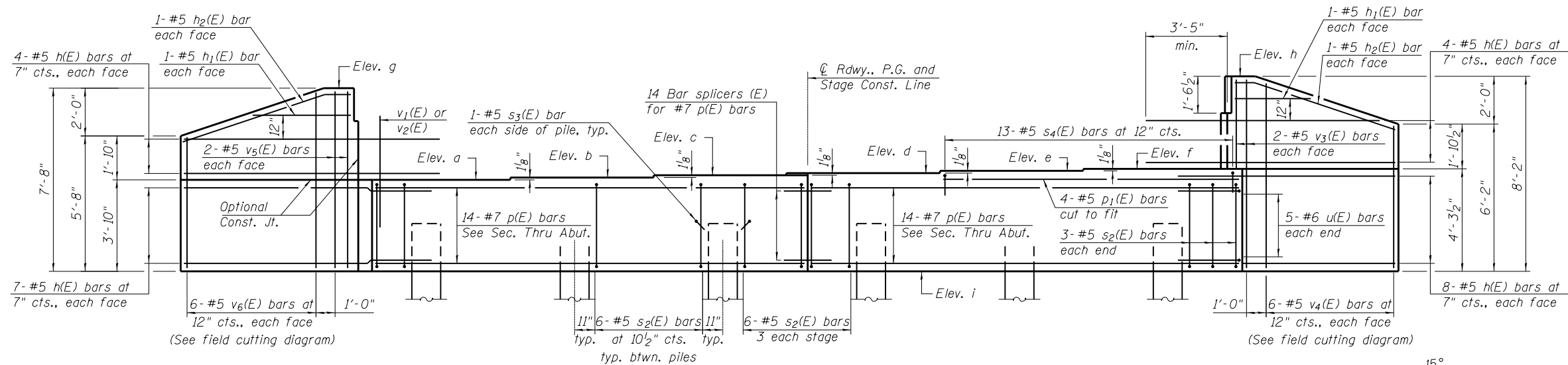
STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

STRUCTURAL STEEL DETAILS
STRUCTURE NO. 068-0513

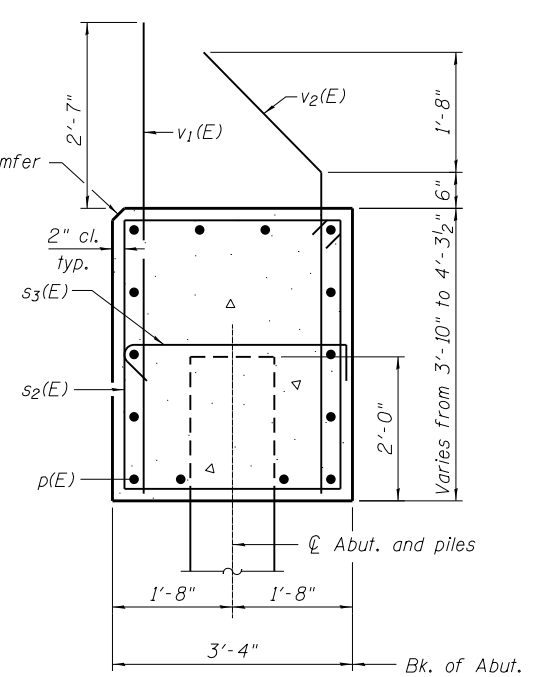
SHEET NO. 15 OF 20 SHEETS

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
777	10B-2	MONTGOMERY	121	91
CONTRACT NO. 72D08				

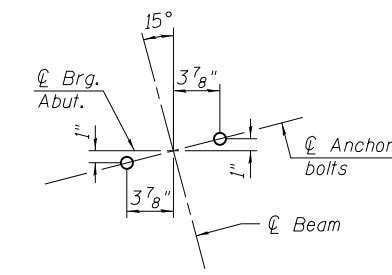
ILLINOIS FED. AID PROJECT



ELEVATION
(East abutment shown, West abutment 180° rotation)



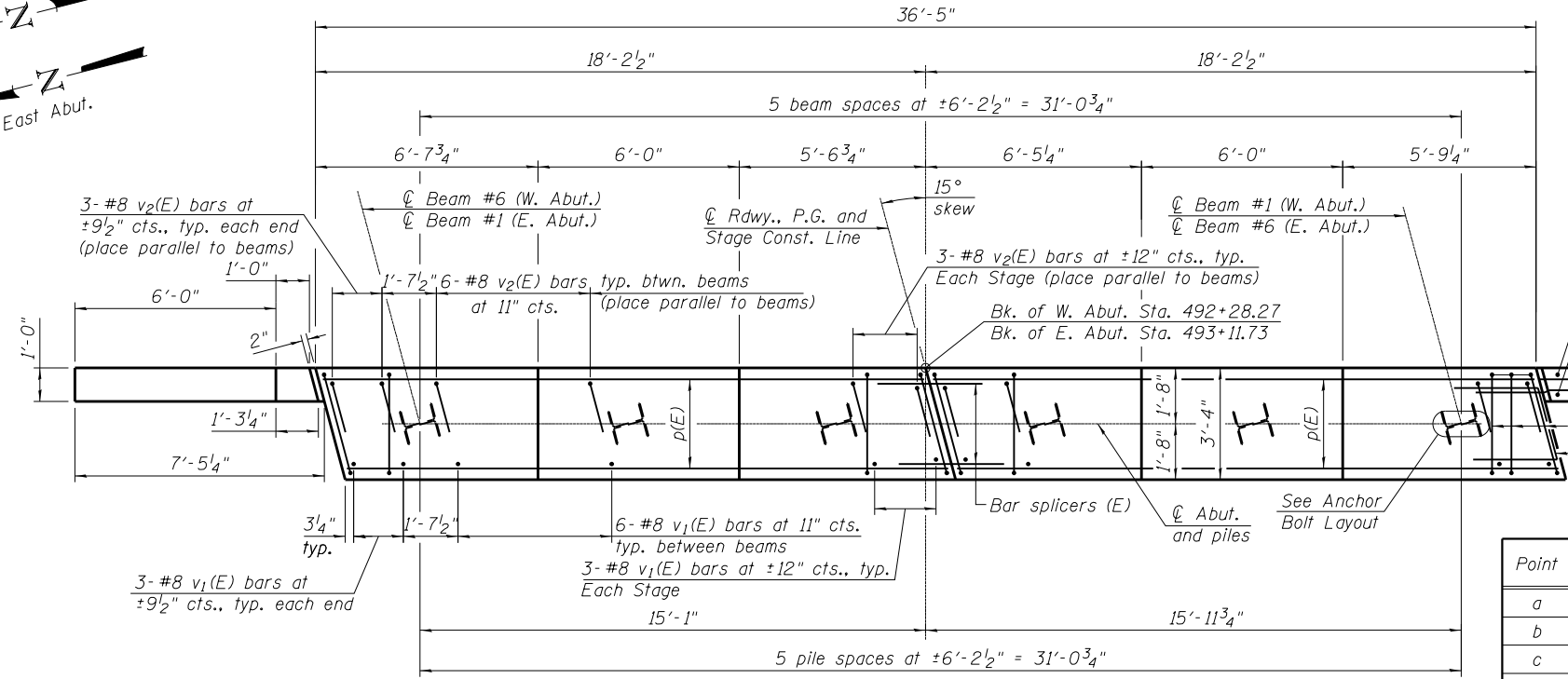
SECTION THRU ABUTMENT
(Dimensions at right angles to abutment.)



ANCHOR BOLT LAYOUT

TWO ABUTMENTS BILL OF MATERIAL

Bar	No.	Size	Length	Shape
h(E)	92	#5	10'-8"	—
h1(E)	8	#5	3'-9"	—
h2(E)	8	#5	7'-0"	—
p(E)	56	#7	17'-10"	—
p1(E)	8	#5	12'-4"	—
s2(E)	72	#5	13'-11"	□
s3(E)	24	#5	4'-0"	┌
s4(E)	26	#5	6'-10"	┌
u(E)	20	#6	10'-7"	└
v1(E)	72	#8	6'-3"	—
v2(E)	72	#8	6'-6"	┌
v3(E)	8	#5	7'-10"	—
v4(E)	12	#5	13'-4"	—
v5(E)	8	#5	7'-4"	—
v6(E)	12	#5	12'-4"	—
Structure Excavation		Cu. Yd.	235	
Concrete Structures		Cu. Yd.	44.2	
Reinforcement Bars, Epoxy Coated		Pound	7,810	
Bar Splicers		Each	28	
Furnishing Steel Piles HP12 x 53		Foot	400	
Driving Piles		Foot	400	
Test Pile Steel HP12 x 53		Each	2	
Pile Shoes		Each	12	



PLAN

ELEVATION TABLE

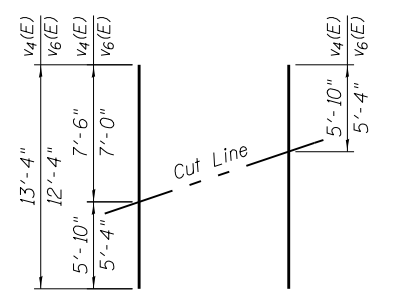
Point	East Abutment		West Abutment	
	Location	Elevation	Location	Elevation
a	Beam #1 Seat	557.86	Beam #6 Seat	558.06
b	Beam #2 Seat	557.95	Beam #5 Seat	558.15
c	Beam #3 Seat	558.04	Beam #4 Seat	558.24
d	Beam #4 Seat	558.13	Beam #3 Seat	558.33
e	Beam #5 Seat	558.22	Beam #2 Seat	558.42
f	Beam #6 Seat	558.31	Beam #1 Seat	558.51
g	North Wingwall	561.68	South Wingwall	561.88
h	South Wingwall	562.18	North Wingwall	562.38
i	Bottom of Footing	554.03	Bottom of Footing	554.23

PILE DATA (W. ABUT.)

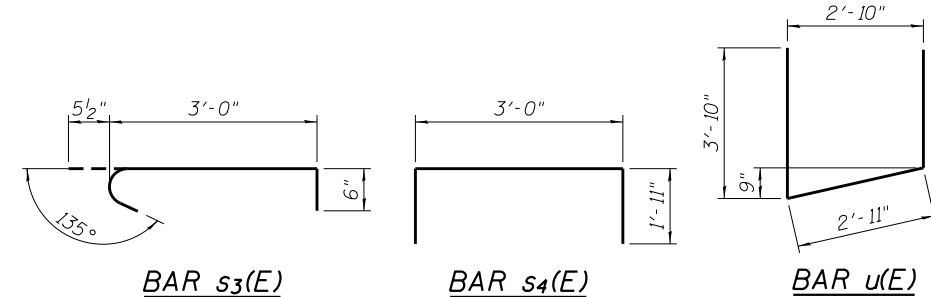
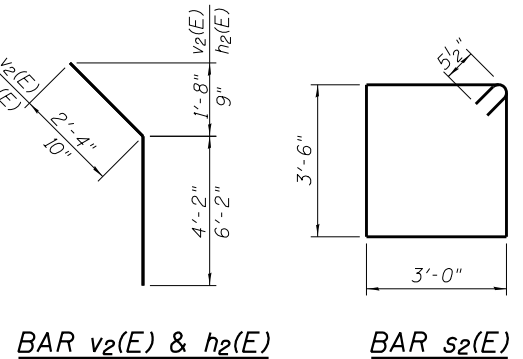
Type: Steel H-Piles HP12 x 53
Nominal Required Bearing: 407k
Factored Resistance Available: 224k
Est. Length: 40 ft.
No. Production Piles: 5
No. Test Piles: 1
Pile Shoes: 6

PILE DATA (E. ABUT.)

Type: Steel H-Piles HP12 x 53
Nominal Required Bearing: 398k
Factored Resistance Available: 219k
Est. Length: 40 ft.
No. Production Piles: 5
No. Test Piles: 1
Pile Shoes: 6



FIELD CUTTING DIAGRAM
Order v4(E) and v6(E) full length. Cut as shown and use remainder of bars in opposite face.



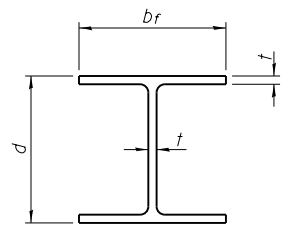
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FILE NAME =	CHECKED - BRD	REVISED
PLOT SCALE =	DRAWN - DLH	REVISED
PLOT DATE =	CHECKED - TJZ	REVISED

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

ABUTMENTS
STRUCTURE NO. 068-0513

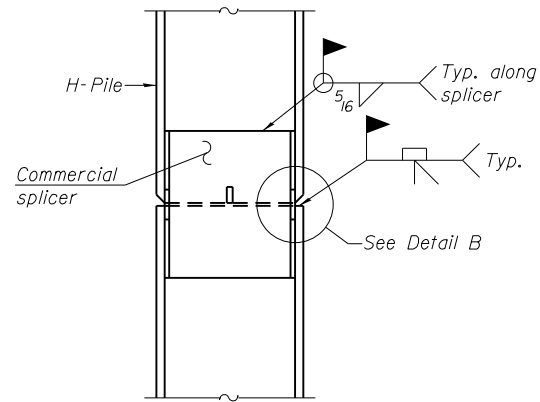
SHEET NO. 16 OF 20 SHEETS

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
777	10B-2	MONTGOMERY	121	92
ILLINOIS FED. AID PROJECT			CONTRACT NO. 72D08	

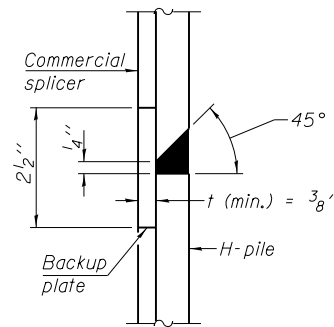


STEEL PILE TABLE

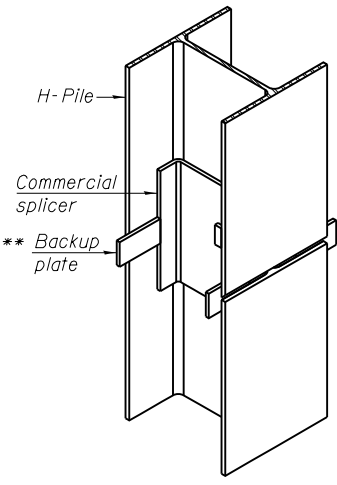
Designation	Depth d	Flange width br	Web and Flange thickness t	Encasement diameter A
HP 14x117	14 1/4"	14 7/8"	1 3/16"	30"
x102	14"	14 3/4"	1/16"	30"
x89	13 7/8"	14 3/4"	5/8"	30"
x73	13 5/8"	14 5/8"	1/2"	30"
HP 12x84	12 1/4"	12 1/4"	1/16"	24"
x74	12 1/8"	12 1/4"	5/8"	24"
x63	12"	12 1/8"	1/2"	24"
x53	11 3/4"	12"	7/16"	24"
HP 10x57	10"	10 1/4"	9/16"	24"
x42	9 3/4"	10 1/8"	7/16"	24"
HP 8x36	8"	8 1/8"	7/16"	18"



ELEVATION

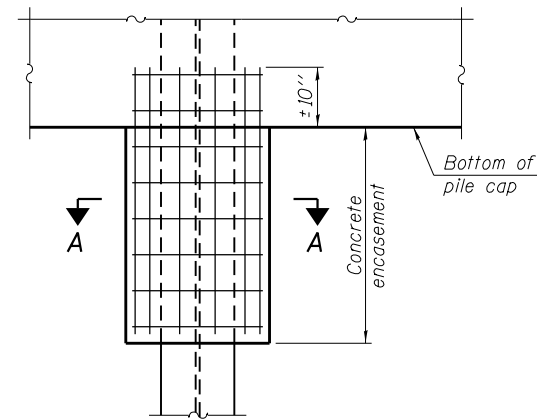


DETAIL "B"



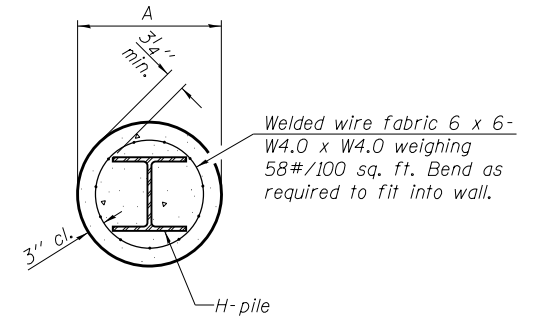
ISOMETRIC VIEW

WELDED COMMERCIAL SPLICE



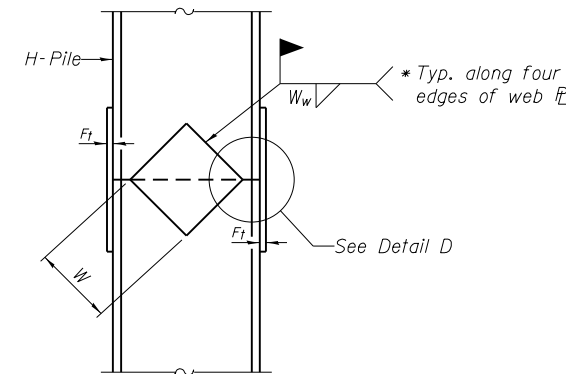
ELEVATION

PILE ENCASEMENT

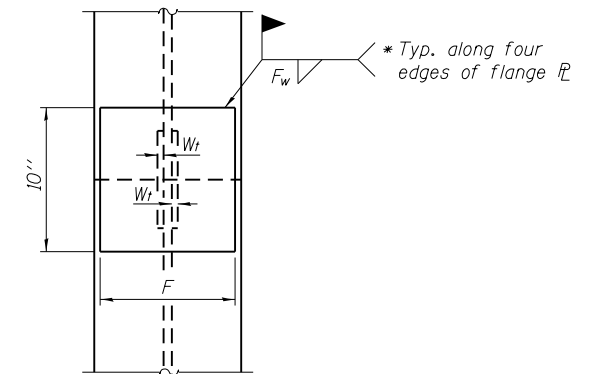


SECTION A-A

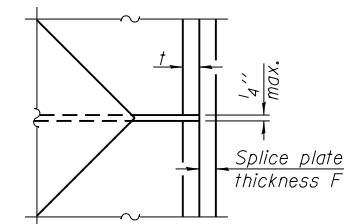
Note:
Forms for encasement may be omitted when soil conditions permit.



ELEVATION



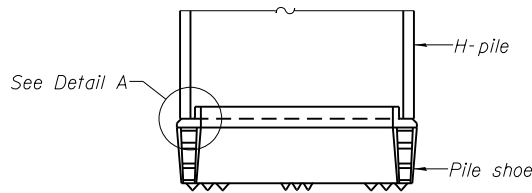
END VIEW



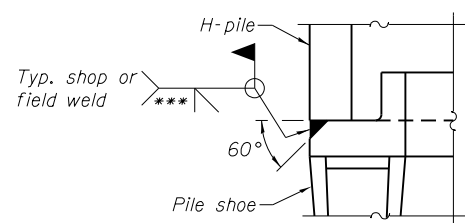
DETAIL D

WELDED PLATE FIELD SPLICE

Designation	F	F _t	F _w	W	W _t	W _w
HP 14x117	12 1/2"	1"	7/8"	7 3/4"	5/8"	1/2"
x102	12 1/2"	7/8"	3/4"	7 3/4"	5/8"	1/2"
x89	12 1/2"	3/4"	1/16"	7 3/4"	5/8"	1/2"
x73	12 1/2"	5/8"	9/16"	7 3/4"	5/8"	1/2"
HP 12x84	10"	7/8"	1/16"	6 1/2"	5/8"	1/2"
x74	10"	7/8"	1/16"	6 1/2"	5/8"	1/2"
x63	10"	5/8"	1/2"	6 1/2"	1/2"	3/8"
x53	10"	5/8"	1/2"	6 1/2"	1/2"	3/8"
HP 10x57	8"	3/4"	9/16"	5 1/4"	1/2"	3/8"
x42	8"	5/8"	9/16"	5 1/4"	1/2"	3/8"
HP 8x36	7"	5/8"	7/16"	4 1/4"	1/2"	3/8"

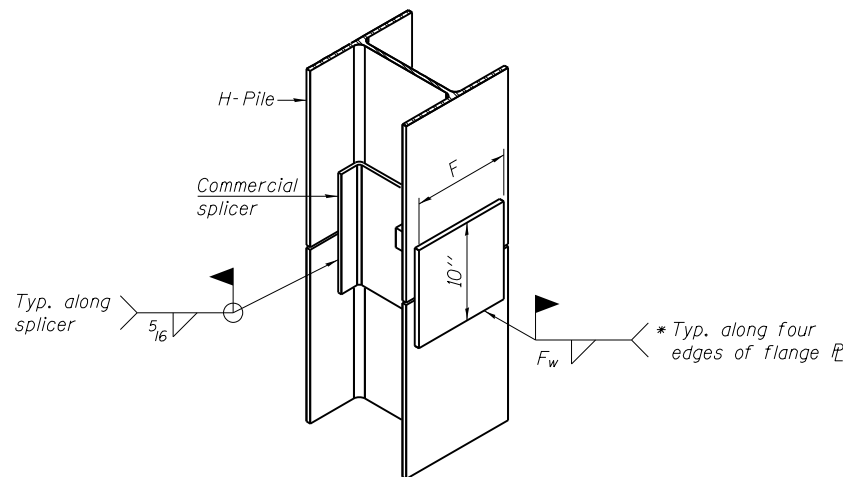


ELEVATION



DETAIL A

H-PILE SHOE ATTACHMENT



ISOMETRIC VIEW

WELDED COMMERCIAL SPLICE ALTERNATE

- * Interrupt welds 1/4" from end of web and/or each flange.
- ** Remove portions of backup plates that extend outside the flanges.
- *** Weld size per pile shoe manufacturer (5/16" min.).

Note:
The steel H-piles shall be according to AASHTO M270 Grade 50.

F-HP 1-27-12



USER NAME =	DESIGNED - TJZ	REVISED
FILE NAME =	CHECKED - BRD	REVISED
PLOT SCALE =	DRAWN - DLH	REVISED
PLOT DATE =	CHECKED - TJZ	REVISED

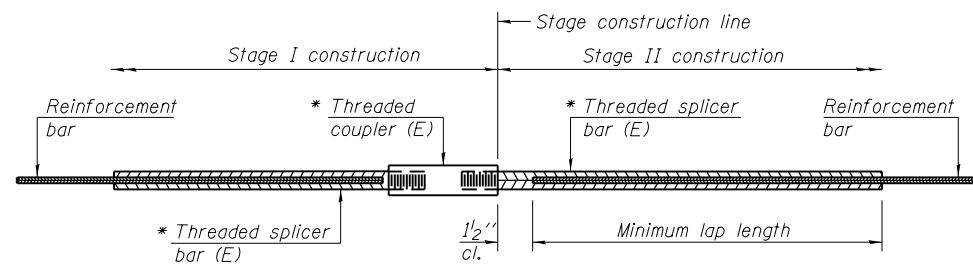
STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

HP PILE DETAILS
STRUCTURE NO. 068-0513

SHEET NO. 17 OF 20 SHEETS

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
777	10B-2	MONTGOMERY	121	93
CONTRACT NO. 72D08				

ILLINOIS FED. AID PROJECT



STANDARD BAR SPLICER ASSEMBLY

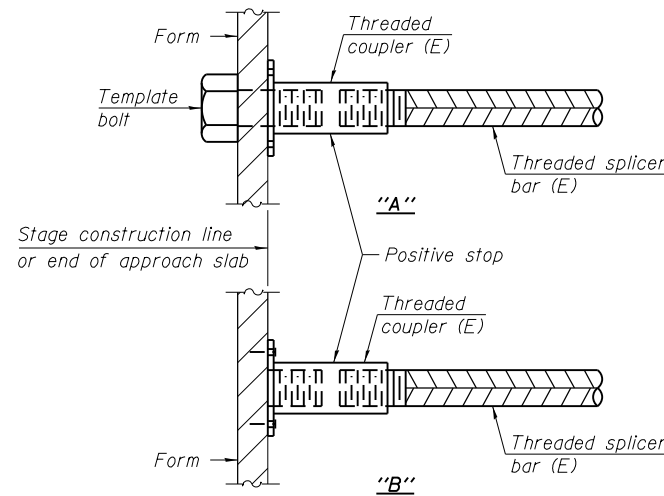
Minimum Lap Lengths						
Bar size to be spliced	Table 1	Table 2	Table 3	Table 4	Table 5	Table 6
3, 4	1'-5"	1'-11"	2'-1"	2'-4"	2'-7"	2'-11"
5	1'-9"	2'-5"	2'-7"	2'-11"	3'-3"	3'-8"
6	2'-1"	2'-11"	3'-1"	3'-6"	3'-10"	4'-5"
7	2'-9"	3'-10"	4'-2"	4'-8"	5'-2"	5'-10"
8	3'-8"	5'-1"	5'-5"	6'-2"	6'-9"	7'-8"
9	4'-7"	6'-5"	6'-10"	7'-9"	8'-7"	9'-8"

- Table 1: Black bar, 0.8 Class C
- Table 2: Black bar, Top bar lap, 0.8 Class C
- Table 3: Epoxy bar, 0.8 Class C
- Table 4: Epoxy bar, Top bar lap, 0.8 Class C
- Table 5: Epoxy bar, Class C
- Table 6: Epoxy bar, Top bar top, Class C

Threaded splicer bar length = min. lap length + 1 1/2" + thread length

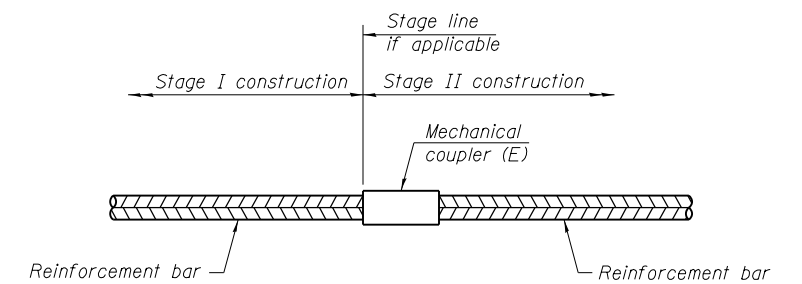
* Epoxy not required on Bar Splicer Assembly components used in conjunction with black bars.

Location	Bar size	No. assemblies required	Table for minimum lap length
Bridge top of deck	#5	141	3
Bridge bottom of deck	#5	99	3
Integral diaphragm - front face	#6	6	2
Integral diaphragm - back face	#6	8	4
Approach top of deck	#4	50	3
Approach bottom of deck	#5	92	3
Approach footing	#5	80	3
Abutment cap	#7	28	4



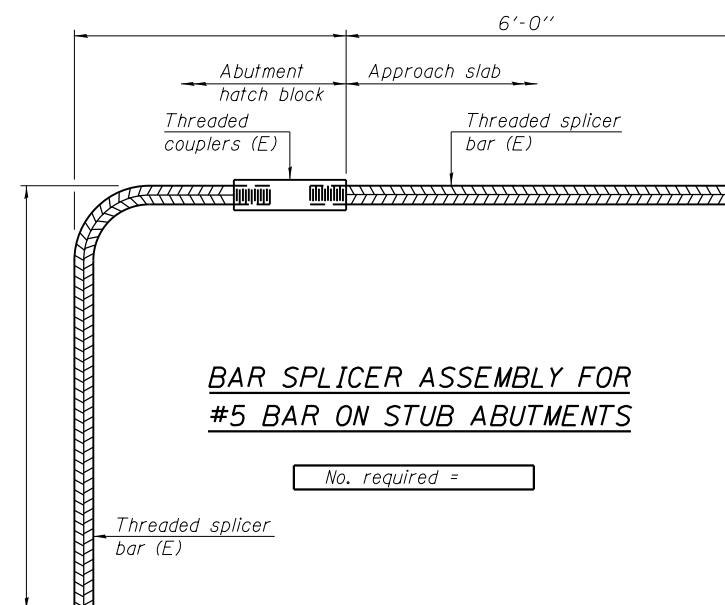
INSTALLATION AND SETTING METHODS

"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.



STANDARD MECHANICAL SPLICER

Location	Bar size	No. assemblies required



BAR SPLICER ASSEMBLY FOR #5 BAR ON STUB ABUTMENTS

No. required =

Notes:

1. Splicer bars shall be deformed with threaded ends and have a minimum 60 ksi yield strength
2. All reinforcement shall be lapped and tied to the splicer bars.
3. Bar splicer assemblies shall be epoxy coated according to the requirements for reinforcement bars. See Section 508 of the Standard Specifications.
4. See approved list of bar splicer assemblies and mechanical splicers for alternatives.

BSD-1

8-31-12



USER NAME =	DESIGNED - TJZ	REVISED
FILE NAME =	CHECKED - BRD	REVISED
PLOT SCALE =	DRAWN - DLH	REVISED
PLOT DATE =	CHECKED - TJZ	REVISED

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

BAR SPLICER ASSEMBLY AND MECHANICAL SPLICER DETAILS
STRUCTURE NO. 068-0513

SHEET NO. 18 OF 20 SHEETS

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
777	10B-2	MONTGOMERY	121	94
CONTRACT NO. 72D08				

ILLINOIS FED. AID PROJECT



Illinois Department of Transportation
Division of Highways
IDOT

SOIL BORING LOG

Page 1 of 2

Date 2/22/12

ROUTE IL 185 DESCRIPTION over Bayou Creek LOGGED BY M. Tappan

SECTION 108-1 LOCATION SE 1/4, SEC. 1, TWP. 7N, RNG. 3W, 3 PM

COUNTY Montgomery DRILLING METHOD HSA HAMMER TYPE 140 # AUTO

STRUCT. NO.	Station	DEPTH (ft)	BLOW (ft)	UCS (tsf)	MOIST (%)	DESCRIPTION	DEPTH (ft)	BLOW (ft)	UCS (tsf)	MOIST (%)
068-0513	492+71					Surface Water Elev. 543 ft				
						Stream Bed Elev. 542.5 ft				
						Groundwater Elev.: 538.3 ft				
						First Encounter				
						Upon Completion				
						After Plugged Hrs.				
						Ground Surface Elev. 559.3 ft				
						Brown and Gray Moist CLAY LOAM (Fill)				
						1				
						5	2.1	17		
						6	B			
						556.30				
						Brown and Gray moist SILTY CLAY LOAM (Fill)				
						1				
						2	.70	21		
						-5	B			
						Gray Very Moist SILTY CLAY LOAM (Fill)				
						0				
						1	.50	28		
						1	B			
						0				
						1	.60	27		
						-10	B			
						0				
						0	.60	28		
						1	B			
						545.80				
						Gray Very Moist SILTY CLAY LOAM				
						0				
						1	.60	29		
						-15	B			
						0				
						0	.50	30		
						1	B			
						521.80				
						Brown and Light Gray Moist Clayey SHALE				
						0				
						8				
						24	5.7	18		
						-40	B	S-8		

The Unconfined Compressive Strength (UCS) Failure Mode is indicated by (B-Bulge, S-Shear, P-Penetrometer, E-Estimated) Abbreviations W.O.H - Sampler Advanced By Weight of Hammer, W.O.P - Advanced by Weight of Pipe, B.S. - Before Seating The SPT (N value) is the sum of the last two blow values in each sampling zone (AASHTO T206) BBS, from 137 (Rev. 8-99)

File Name: S:\SOIL\SIGNIT FILES\068 MONTGOMERY\068-0513.GPJ Data Template: D:\TEMP\T.GDT Date Printed: 7/31/14
Latitude: 39.044477N Longitude: 89.21787W Datum: NAD83 Job Number: D-95-109-09



Illinois Department of Transportation
Division of Highways
IDOT

SOIL BORING LOG

Page 2 of 2

Date 2/22/12

ROUTE IL 185 DESCRIPTION over Bayou Creek LOGGED BY M. Tappan

SECTION 108-1 LOCATION SE 1/4, SEC. 1, TWP. 7N, RNG. 3W, 3 PM

COUNTY Montgomery DRILLING METHOD HSA HAMMER TYPE 140 # AUTO

STRUCT. NO.	Station	DEPTH (ft)	BLOW (ft)	UCS (tsf)	MOIST (%)	DESCRIPTION	DEPTH (ft)	BLOW (ft)	UCS (tsf)	MOIST (%)
068-0513	492+71					Surface Water Elev. 543 ft				
						Stream Bed Elev. 542.5 ft				
						Groundwater Elev.: 538.3 ft				
						First Encounter				
						Upon Completion				
						After Plugged Hrs.				
						Ground Surface Elev. 559.3 ft				
						Brown and Light Gray Moist Clayey SHALE				
						Drilled Stiff at 37.5' (continued)				
						6"				
						Ref. Sta. to Centerline of Ex. Structure = 492+71 Sta. Increase to East				
						Ref. Elev. to Chsd Square on NE Approach Slab = 558.7				
						Dark Gray Moist Poorly Indurated Clayey SHALE Interbedded with Black Lignite COAL Seams				
						7				
						17	4.0	20		
						-15	S-10			
						-45				
						Gray Moist Poorly Indurated Clayey SHALE				
						7				
						18	3.7	13		
						-50	S-9			
						-70				
						Gray Dry Fissile Clayey SHALE				
						8				
						55		11		
						-55				
						10				
						33		16		
						499.30				
						67				
						-80				

The Unconfined Compressive Strength (UCS) Failure Mode is indicated by (B-Bulge, S-Shear, P-Penetrometer, E-Estimated) Abbreviations W.O.H - Sampler Advanced By Weight of Hammer, W.O.P - Advanced by Weight of Pipe, B.S. - Before Seating The SPT (N value) is the sum of the last two blow values in each sampling zone (AASHTO T206) BBS, from 137 (Rev. 8-99)

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Latitude: 39.044477N Longitude: 89.21787W Datum: NAD83 Job Number: D-95-109-09

Design firm
no. 184001036



USER NAME =	DESIGNED -	TJZ	REVISED
FILE NAME =	CHECKED -	BRD	REVISED
PLOT SCALE =	DRAWN -	DLH	REVISED
PLOT DATE =	CHECKED -	TJZ	REVISED

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

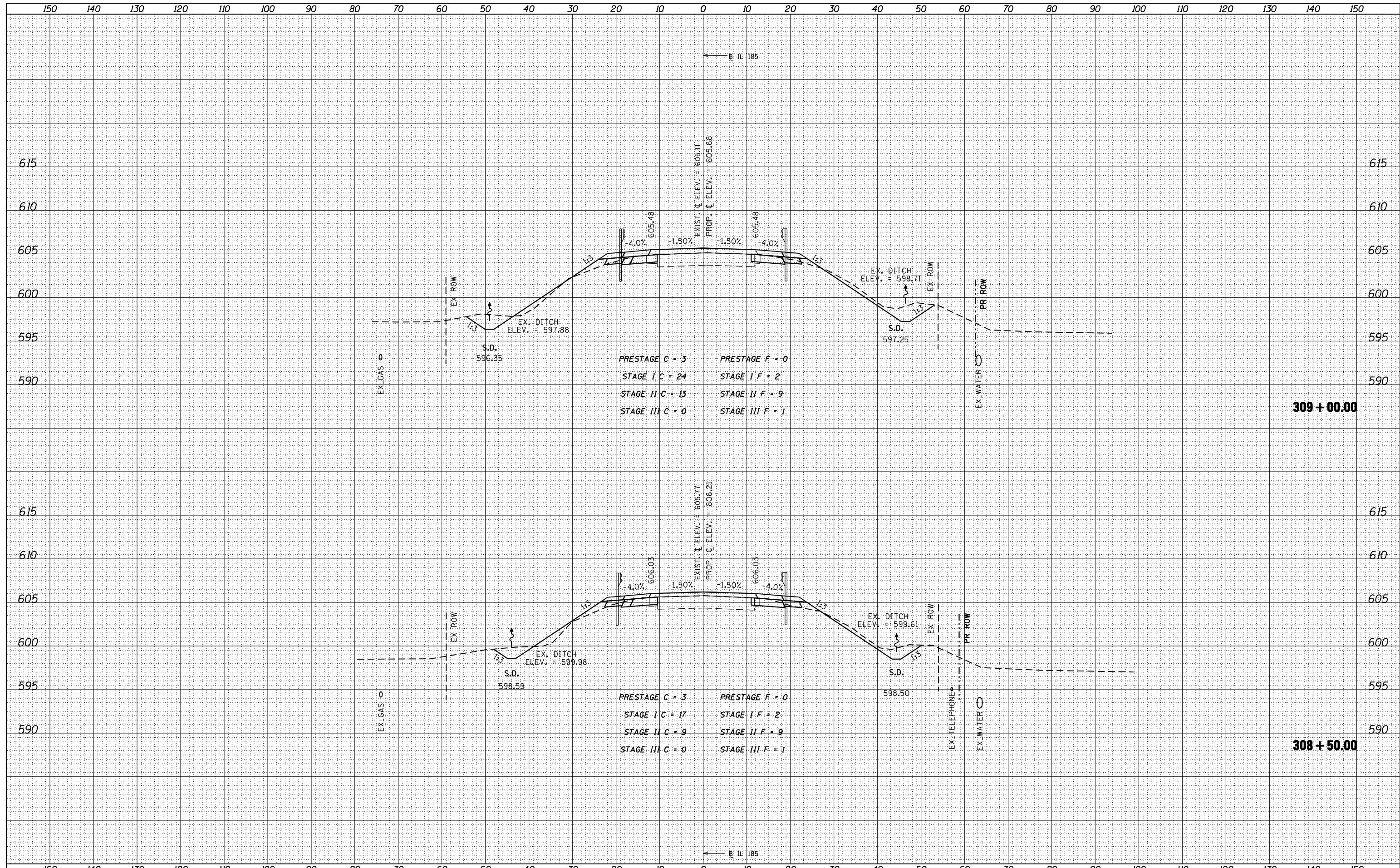
BORING LOGS
STRUCTURE NO. 068-0513

SHEET NO. 19 OF 20 SHEETS

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
777	10B-2	MONTGOMERY	121	95
CONTRACT NO. 72D08			ILLINOIS FED. AID PROJECT	

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

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



design firm
no. 184001036

engineers • planners • land surveyors

USER NAME = g_jameson	DESIGNED -	REVISED
FILE NAME = D672D08-SN0680026-SHT-10.dgn	CHECKED -	REVISED
PLOT SCALE = 20.0000' / IN.	DRAWN -	REVISED
PLOT DATE = 10/15/2015	CHECKED -	REVISED

**STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION**

**CROSS SECTIONS
IL 185 OVER MCDAVID BRANCH**

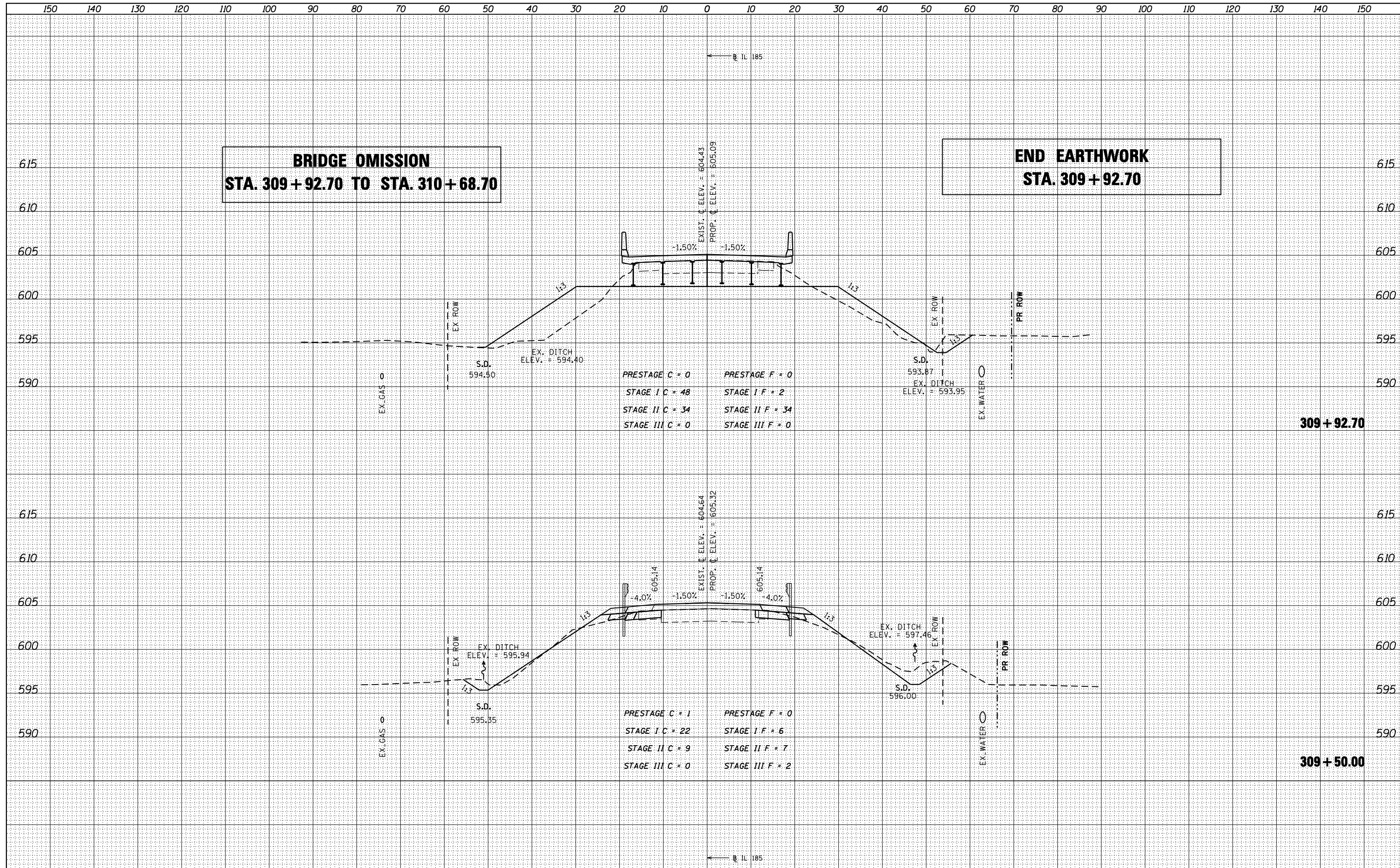
SCALE: 1" = 10' SHEET 3 OF 9 SHEETS STA. 308+50.00 TO STA. 309+00.00

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
777	10B-2, 405B-1	MONTGOMERY	121	99
			CONTRACT NO. 72D08	

ILLINOIS FED. AID PROJECT

DATE	
BY	
SURVEYED	
PLOTTED	
TEMPLATE	
AREAS	
CHECKED	
NO.	

DATE	
BY	
SURVEYED	
PLOTTED	
TEMPLATE	
AREAS	
CHECKED	
NO.	



BRIDGE OMISSION
STA. 309+92.70 TO STA. 310+68.70

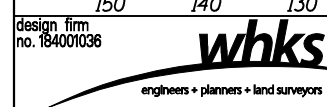
END EARTHWORK
STA. 309+92.70

EXIST. C. ELEV. = 604.43
 PROP. C. ELEV. = 605.09

PRESTAGE C = 0 PRESTAGE F = 0
 STAGE I C = 48 STAGE I F = 2
 STAGE II C = 34 STAGE II F = 34
 STAGE III C = 0 STAGE III F = 0

EXIST. C. ELEV. = 604.64
 PROP. C. ELEV. = 605.32

PRESTAGE C = 1 PRESTAGE F = 0
 STAGE I C = 22 STAGE I F = 6
 STAGE II C = 9 STAGE II F = 7
 STAGE III C = 0 STAGE III F = 2



USER NAME = g_jameson
 FILE NAME = D672D08-SN0680026-SHT-CHEKED.dgn
 PLOT SCALE = 20.0000' / IN.
 PLOT DATE = 10/15/2015

DESIGNED -
 REVISED
 DRAWN -
 CHECKED -

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

CROSS SECTIONS
IL 185 OVER MCDAVID BRANCH

SCALE: 1" = 10' SHEET 4 OF 9 SHEETS STA. 309+50.00 TO STA. 309+93.70

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
777	10B-2, 405B-1	MONTGOMERY	121	100
			CONTRACT NO. 72D08	

ILLINOIS FED. AID PROJECT