

F.A.U. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
2332	03-14185-02-BR	KANE	73	1
FED. ROAD DIST. NO. 1	ILLINOIS	CONTRACT NO. 63521		

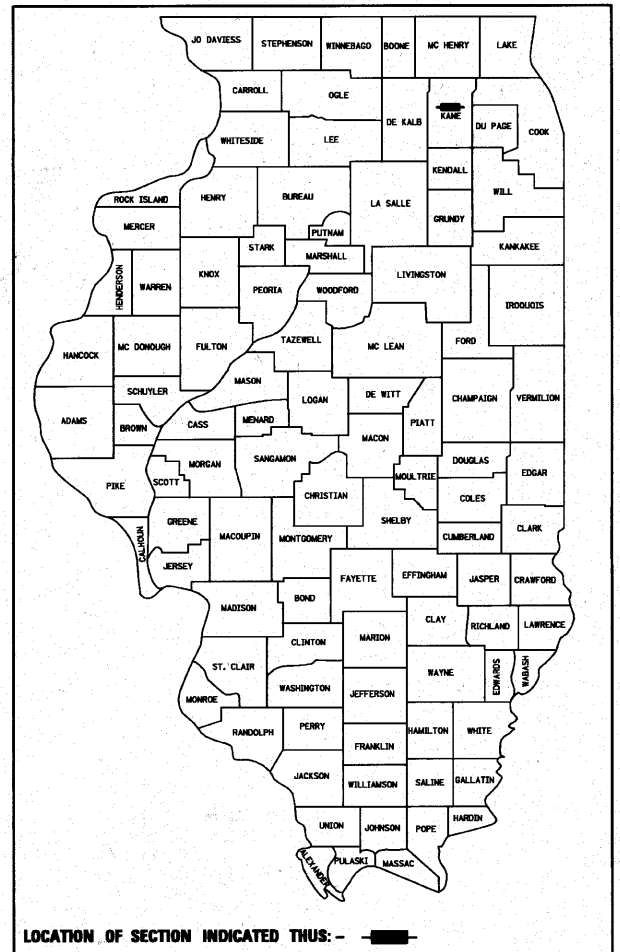
+1 = 74

STATE OF ILLINOIS  
DEPARTMENT OF TRANSPORTATION  
DIVISION OF HIGHWAYS  
**PLANS FOR PROPOSED  
FEDERAL AID HIGHWAY**

FOR INDEX OF SHEETS, SEE SHEET NO. 2

PROJECT LOCATED IN ST. CHARLES TOWNSHIP

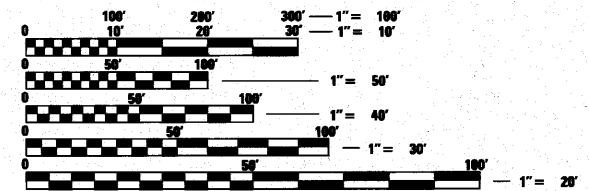
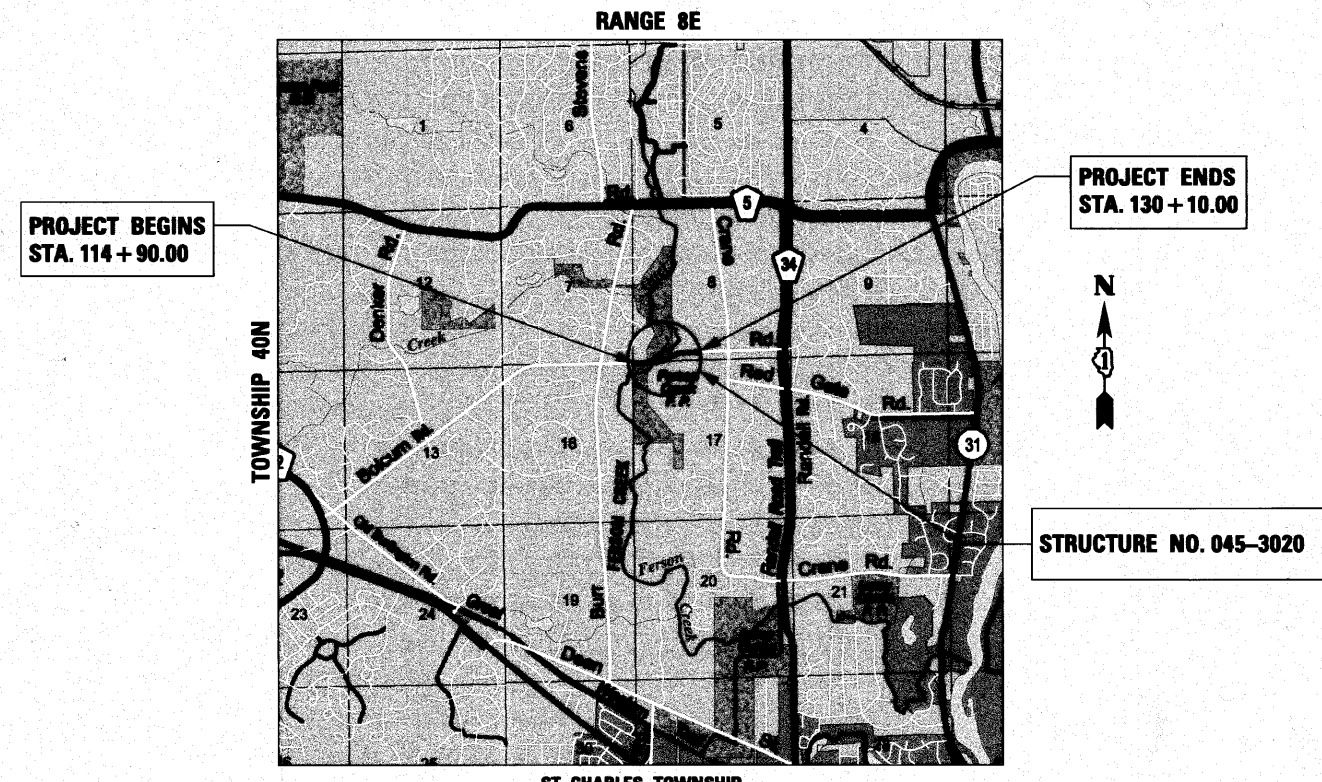
F.A.U. RTE 2332 (BOLCUM ROAD)  
OVER FERSON CREEK  
SECTION 03-14185-02-BR  
PROJECT BHOS-00D(639)  
BRIDGE REMOVAL AND REPLACEMENT  
JOB NO. C-91-140-04  
KANE COUNTY



**TRAFFIC DATA**

2006 ADT = 4,650  
2030 ADT = 14,500  
DESIGN SPEED: 50 MPH

DESIGN DESIGNATION:  
1,000 (30) MAJOR COLLECTOR (HMA-20)



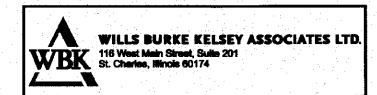
FULL SIZE PLANS HAVE BEEN PREPARED USING STANDARD ENGINEERING SCALES. REDUCED SIZED PLANS WILL NOT CONFORM TO STANDARD SCALES. IN MAKING MEASUREMENTS ON REDUCED PLANS, THE ABOVE SCALES MAY BE USED.

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

PROJECT NET AND GROSS LENGTH = 1520 FT (0.288 MILE)  
PROJECT LOCATED IN:  
PART OF SECTIONS 8 AND 17 IN TOWNSHIP 40N, RANGE 8E, OF THE THIRD PRINCIPAL MERIDIAN,  
KANE COUNTY, ILLINOIS



October 20, 2010  
*Kevin M. Anderson*  
KEVIN M. ANDERSON  
ILLINOIS REG. PROFESSIONAL ENGINEER NO. 062-055662  
EXPIRATION DATE 11-30-2011



STATE OF ILLINOIS  
DEPARTMENT OF TRANSPORTATION  
DIVISION OF HIGHWAYS

APPROVED *October 20, 2010*  
*Ronald Johnson*  
ST. CHARLES TOWNSHIP

PASSED *NOVEMBER 5, 2010*  
*Cheryl A. Heston*  
DISTRICT 1 ENGINEER OF LOCAL ROADS & STREETS

RELEASING FOR BID  
BASED ON LIMITED  
REVIEW *November 8, 2010*  
*Diana M. O'Keefe*  
DEPUTY DIRECTOR OF HIGHWAYS, REGION 1 ENGINEER

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OF THE STATE OF ILLINOIS**

CONTRACT NO. 63521

PROGRAM AND OFFICE ENGINEER: CHARLES F. RIDDLE, P.E. (847) 705-4406 SCHAUMBURG, IL

**GENERAL NOTES**

- ALL CONSTRUCTION SHALL BE IN CONFORMANCE WITH THE APPLICABLE REQUIREMENT SET FORTH IN "THE CONSTRUCTION SPECIFICATIONS FOR ROAD AND BRIDGE CONSTRUCTION" ADOPTED JANUARY 1, 2007 THEREINAFTER REFERRED TO AS STANDARD SPECIFICATIONS, THE LATEST EDITION OF THE "ILLINOIS MANUAL ON UNIFORM MANUAL TRAFFIC CONTROL DEVICES FOR STREETS AND HIGHWAYS" IN EFFECT ON THE DATE OF INVITATION FOR BIDS; THE "SUPPLEMENTAL SPECIFICATIONS AND RECURRING SPECIAL PROVISIONS" LATEST EDITION; INTERIM SPECIAL PROVISIONS AS INCLUDED IN THE CONTRACT DOCUMENTS; AND THE DETAILS AND STANDARDS CONTAINED IN THESE PLANS.
- BEFORE STARTING ANY EXCAVATIONS, THE CONTRACTOR SHALL CALL "JULIE" AT 1-800-892-0123 FOR FIELD LOCATIONS OF BURIED ELECTRIC, TELEPHONE AND GAS FACILITIES. (48 HOUR NOTIFICATION IS REQUIRED)
- THE LOCATIONS OF THE EXISTING UTILITIES, AS SHOWN ON THE DRAWINGS, REPRESENT DATA RECEIVED FROM VARIOUS SOURCES, IT IS NOT GUARANTEED TO BE CORRECT OR ALL INCLUSIVE. THE CONTRACTOR SHALL CONDUCT HIS OWN INVESTIGATIONS INTO THE LOCATION, SIZE, DEPTH, AND NATURE OF ANY AND ALL EXISTING UTILITIES WHICH MAY INTERFERE WITH THE WORK UNDER THIS CONTRACT. ANY EXISTING UTILITIES WHICH ARE TO REMAIN IN SERVICE SHALL BE FULLY PROTECTED BY THE CONTRACTOR AND ANY DAMAGE CAUSED BY THE CONSTRUCTION SHALL BE IMMEDIATELY REPAIRED AT NO ADDITIONAL COST IN ACCORDANCE WITH ARTICLE 105.07.
- THE CONTRACTOR SHALL COORDINATE CONSTRUCTION ACTIVITIES WITH UTILITY COMPANIES.
- ALL WORK SHALL BE COMPLETED WITHIN THE LIMITS OF THE PROJECT SHOWN. NO EQUIPMENT, MATERIALS OR A YARD OR FIELD OFFICE SHALL BE SET UP OR STORED ON COUNTY OR PRIVATE PROPERTY WITHOUT WRITTEN PERMISSION OF THE ENGINEER.
- MAINTENANCE OF TRAFFIC-GENERAL: TRAFFIC CONDITIONS, ACCIDENTS AND OTHER UNFORESEEN EMERGENCY CONDITIONS MAY REQUIRE THE ENGINEER TO RESTRICT, MODIFY OR REMOVE LANE CLOSURES OR CHANNELIZATION SHOWN IN THE PLANS. THE CONTRACTOR SHALL RESPOND WITHIN 30 MINUTES OF THE TIME OF NOTIFICATION BY THE ENGINEER FOR THE MAINTENANCE OF TRAFFIC CONTROL DEVICES.
- TRAFFIC CONTROL DEVICES: ALL TRAFFIC CONTROL DEVICES USED FOR THE MAINTENANCE OF TRAFFIC AS DETAILED ON THE PLANS SHALL BE REFLECTORIZED PRIOR TO INSTALLATION AND CLEANED AS NECESSARY THROUGHOUT THE DURATION OF THE CONTRACT.
- BARRICADES: THE CONTRACTOR SHALL PROVIDE AND INSTALL TWO (2) WEIGHTED SANDBAGS ON EACH TYPE I OR TYPE II BARRICADE USED- ONE (1) WEIGHTED SAND BAG ACROSS EACH BOTTOM RAIL.

**DRAINAGE NOTES**

- DURING CONSTRUCTION OPERATIONS ALL LOOSE MATERIAL DEPOSITED IN THE FLOW LINE OF DRAINAGE STRUCTURES AND TEMPORARY DITCHES THAT OBSTRUCTS THE NATURAL FLOW OF WATER SHALL BE REMOVED AT THE CLOSE OF EACH WORKING DAY AT THE CONCLUSION OF THE CONSTRUCTION OPERATIONS. ALL DRAINAGE STRUCTURES SHALL BE CLEANED AS NECESSARY TO INSURE THAT THEY ARE FREE FROM ALL DIRT AND DEBRIS PRIOR TO THE FINAL INSPECTION OF THE PROJECT. THIS WORK WILL NOT BE MEASURED SEPERATELY FOR PAYMENT, BUT SHALL BE CONSIDERED INCLUDED IN THE COST OF EARTH EXCAVATION.
- ANY FARM DRAIN, FIELD TILE SYSTEM OR OTHER UNDERGROUND TILE FACILITY ENCOUNTERED IN THE WORK SHALL BE LOCATED AND STAKED AND REPORTED TO THE RESIDENT ENGINEER. ANY DRAINAGE LINES WHICH ARE CUT OR DAMAGED BY GRADING, TRENCHING, EXCAVATION OR OTHER CONSTRUCTION ACTIVITIES SHALL BE REPAIRED SO AS TO MAINTAIN ITS ORIGINAL ALIGNMENT. IF THIS CANNOT BE ACCOMPLISHED, THE TILE SHALL BE REPAIRED AND CONNECTED TO THE PROPOSED STORM SEWER SYSTEM IN SUCH A MANNER AS TO RENDER THE LINES USABLE FOR THE PURPOSES INTENDED. THE WORK SHALL BE DONE IN ACCORDANCE WITH THE SPECIAL PROVISION "DRAIN TILE REPAIR".

**KANE-DUPAGE SOIL & WATER CONSERVATION DISTRICT NOTES**

- THE CONTRACTOR AND ENGINEER SHALL MEET WITH THE KANE-DUPAGE SOIL & WATER CONSERVATION DISTRICT TO COORDINATE ALL IN-STREAM WORK ACTIVITIES.
- THE CONTRACTOR'S IN-STREAM WORK PLAN SHALL BE SUBMITTED TO THE SOIL & WATER CONSERVATION DISTRICT AND KANE COUNTY FOR REVIEW AND APPROVAL PRIOR TO STARTING ANY WORK. THERE WILL NO ADDITIONAL COMPENSATION FOR THIS PROVIDING THE PLAN AND COORDINATION.
- SEE EROSION CONTROL PLAN SHEETS FOR ADDITIONAL DETAILS, CONDITONS AND NOTES.

**EARTHWORK AND ROADWAY**

- EARTHWORK SHALL BE PAID FOR ONLY ONCE, REGARDLESS OF STAGING. STOCK PILING OF MATERIALS FOR LATER USE AND REDISTRIBUTION SHALL BE DONE AT THE CONTRACTOR'S EXPENSE. STOCK PILING NECESSARY FOR RESPREADING IN SHOULDERS, CONSTRUCTING EMBANKMENTS, CUT OR BORROW AREAS SHALL BE CONSIDERED INCLUDED IN THE UNIT PRICE OF EARTH EXCAVATION.
- ALL AGGREGATE AND BITUMINOUS BASE COURSES SHALL BE PRIMED. THIS WORK SHALL CONFORM TO THE APPROPRIATE ARTICLES OF SECTION 406 OF THE STANDARD SPECIFICATIONS. THE PRIME COAT FOR AGGREGATE SURFACES SHALL BE MC-30 APPLIED AT A RATE OF 0.30 GALLONS PER SQUARE YARD AND SS-1 APPLIED AT THE RATE OF 0.10 GALLONS PER SQUARE YARD FOR HMA BASES. WHEN THE PRIMED AREA IS TO BE OPEN TO TRAFFIC, A FINE AGGREGATE SHALL BE PLACED IMMEDIATELY AFTER THE PRIME COAT HAS BEEN APPLIED. THE FINE AGGREGATE SHALL CONFORM TO ARTICLES 406.06 OF THE STANDARD SPECIFICATIONS. THESE ITEMS WILL BE PAID FOR SEPARATELY AS BITUMINOUS MATERIALS (PRIME COAT) AND AGGREGATE (PRIME COAT).
- GEOTECHNICAL FABRIC FOR GROUND STABILIZATION: ITEM NO. 2100100 GEOTECHNICAL FABRIC FOR GROUND STABILIZATION WILL ONLY BE UTILIZED IN AREAS THAT HAVE BEEN IDENTIFIED AS SUBGRADE UNDERCUTS AREAS OR WHERE DETERMINED IN THE FIELD BY A GEOTECHNICAL ENGINEER. THE FABRIC WILL BE USED IN COMBINATION WITH PGE SUBGRADE. THE QUANTITY INCLUDED IN THE PLANS IS BASED ON THE SUBSURFACE INVESTIGATION PREPARED BY TESTING SERVICE CORPORATION RECOMMENDATIONS FOR UNDERCUT AREAS.
- ALL EXCAVATION AND EMBANKMENT LOCATIONS REQUIRING SEEDING OR SODDING SHALL BE CONSTRUCTED TO 6 INCHES BELOW FINISHED GRADE LINE TO ALLOW TOPSOIL PLACEMENT.
- PAVEMENT ELEVATIONS: THE ELEVATIONS SHOWN ON THE PLANS ARE FINISHED GRADES FOR THE PROPOSED PAVEMENT OR SURFACE COURSE, UNLESS OTHERWISE INDICATED.
- THE HORIZONTAL DATUM IS NAD 83 AND THE VERTICAL DATUM IS NAVD 29.

**SUMMARY OF COMMITMENTS**

- THE PRIMROSE PARK LAND THAT WILL BE USED FOR COMPENSATORY STORMWATER STORAGE SHALL BE RESTORED WITH NATIVE GRASSES OR TO MATCH THE EXISTING SURROUNDING VEGETATION.
- NO LAND ON PRIMROSE PARK THAT IS CURRENTLY USED FOR RECREATIONAL PURPOSES SHALL BE UTILIZED FOR COMPENSATORY STORAGE.
- BECAUSE AN ILLINOIS ENDANGERED SPECIES, SPECKLED ALDER (ALNUS ICANA), IS LOCATED NEARBY, STAGING IS PERMITTED ONLY ON THE NORTH SIDE OF THE ROAD TO AVOID ANY POTENTIAL IMPACTS. THE LOCATION IS APPROXIMATELY 100 FEET SOUTH OF BOLCUM ROAD NEAR THE WESTERN TERMINUS OF THE PROJECT.

**OWNER OF RECORD**

THE ILLINOIS DEPARTMENT OF TRANSPORTATION IS NOT THE OWNER OF RECORD FOR THIS BRIDGE. THOSE SEEKING HISTORIC, AS-BUILT OR OTHER EXISTING DOCUMENTS AND PLANS MUST CONTACT THE OWNER OF RECORD TO MAKE ARRANGEMENTS FOR ACCESS TO THIS INFORMATION.

**INDEX OF SHEETS**

SHEET NO.	DESCRIPTION
1	COVER SHEET
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7	EARTHWORK SCHEDULE
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12	ALIGNMENT, TIES & BENCHMARKS
13	MAINTENANCE OF TRAFFIC - DETOUR PLAN
14-15	EXISTING CONDITIONS & REMOVAL PLAN
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49	DRIVEWAY DETAILS - DISTANCE BETWEEN R.O.W. AND FACE OF CURB & EDGE OF SHOULDER >= 15' (4.5 m)
50	BUTT JOINT AND HMA TAPER DETAILS
50A	BENCHING DETAIL FOR EMBANKMENT WIDENING
51	DISTRICT ONE TYPICAL PAVEMENT MARKINGS
52	ARTERIAL ROAD INFORMATION SIGN
53-65	CROSS SECTIONS - BOLCUM ROAD
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**HIGHWAY STANDARDS**

STANDARD NO.	DESCRIPTION
000001-06	STANDARD SYMBOLS, ABBREVIATIONS AND PATTERNS
001001-02	AREAS OF REINFORCEMENT BARS
280001-05	TEMPORARY EROSION CONTROL SYSTEMS
420401-08	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
601001-04	SUB-SURFACE DRAINS
602301-03	INLET - TYPE A
604001-03	FRAMES AND LIDS TYPE 1
630201-06	PCC/HMA STABILIZATION AT STEEL PLATE BEAM GUARDRAIL
630301-05	SHOULDER WIDENING FOR TYPE 1 (SPECIAL) GUARDRAIL TERMINALS
631031-09	TRAFFIC BARRIER TERMIAL, TYPE 6
635006-03	REFLECTOR AND TERMINAL MARKER PLACEMENT
635011-02	REFLECTOR MARKER AND MOUNTING DETAILS
665001-02	WOVEN WIRE FENCE
666001-01	RIGHT OF WAY MARKERS
701001-02	OFF-RD OPERATION 2L, 2W, MORE THAN 15' AWAY
701006-03	OFF-RD OPERATION 2L, 2W, 4.5 M 15' TO 24" FROM PAVEMENT EDGE
701011-02	OFF-RD MOVING OPERATIONS, 2L, 2W, DAY ONLY
701301-04	LANE CLOSURE, 2L, 2W, SHORT TIME OPERATIONS
701311-03	LANE CLOSURE, 2L, 2W, MOVING OPERATIONS - DAY ONLY
701901-01	TRAFFIC CONTROL DEVICES
720001-01	SIGN PANEL MOUNTING DETAILS
720006-02	SIGN PANEL ERECTION DETAILS
BLR 26-2	STEEL PLATE BEAM GUARDRAIL 27 1/2" HEIGHT

**DISTRICT STANDARDS**

STANDARD NO.	DESCRIPTION
BD-01	DRIVEWAY DETAILS - DISTANCE BETWEEN R.O.W. AND CURB OR EDGE GREATER THAN OR EQUAL TO 15' (4.5 m)
BD-32	BUTT JOINTS AND HMA TAPER
BD-51	BENCHING DETAIL FOR EMBANKMENT WIDENING
TC-13	DISTRICT ONE TYPICAL PAVEMENT MARKINGS
TC-22	ARTERIAL ROAD INFORMATION SIGN (DISTRICT 1)

FILE NAME = P:\CBEL WEST Projects\2009\09-0092 Bolcum Ph1\CV1\Ugn\Sh\AGENTES\_01.dgn

**WILLS BURKE KELSEY ASSOCIATES LTD.**  
118 West Math Street, Suite 201  
St. Charles, Illinois 60174

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PLOT DATE = 12/6/2010	DATE - 10/22/10	REVISED -

**STATE OF ILLINOIS  
DEPARTMENT OF TRANSPORTATION**

**GENERAL NOTES,  
INDEX & STANDARDS**

SCALE: SHEET NO. 2 OF 73 SHEETS STA. TO STA.

F.A.J. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
2332	03-14185-02-BR	KANE	73	2
CONTRACT NO. 63521				
FED. ROAD DIST. NO. 1 ILLINOIS FED. AID PROJECT				

SPECIALTY ITEM	CODE NO.	ITEM	UNIT	TOTAL QUANTITY	CONSTRUCTION CODE		
					80% FEDERAL 20% STATE		100% LOCAL
					ROADWAY 0004 RURAL	BRIDGE 0011 RURAL	ROADWAY 0004 RURAL
	20100110	TREE REMOVAL (6 TO 15 UNITS DIAMETER)	UNIT	72	72		
	20100210	TREE REMOVAL (OVER 15 UNITS DIAMETER)	UNIT	204	204		
	20101000	TEMPORARY FENCE	FOOT	30	30		
	20200100	EARTH EXCAVATION	CU YD	410	410		
	20201200	REMOVAL AND DISPOSAL OF UNSUITABLE MATERIAL	CU YD	2,460	2,460		
	20400800	FURNISHED EXCAVATION	CU YD	1,040	1,040		
	21001000	GEOTECHNICAL FABRIC FOR GROUND STABILIZATION	SQ YD	2,357	2,357		
	21101505	TOPSOIL EXCAVATION AND PLACEMENT	CU YD	365	365		
S	25000210	SEEDING, CLASS 2A	ACRE	0.25	0.25		
S	25000400	NITROGEN FERTILIZER NUTRIENT	POUND	248	248		
S	25000500	PHOSPHORUS FERTILIZER NUTRIENT	POUND	248	248		
S	25000600	POTASSIUM FERTILIZER NUTRIENT	POUND	248	248		
S	25100630	EROSION CONTROL BLANKET	SQ YD	7,260	7,260		
S	28000250	TEMPORARY EROSION CONTROL SEEDING	POUND	303	303		
	28000305	TEMPORARY DITCH CHECKS	FOOT	50	50		
	28000400	PERIMETER EROSION BARRIER	FOOT	2,220	2,220		
	28000500	INLET AND PIPE PROTECTION	EACH	3	3		
	28100105	STONE RIPRAP, CLASS A3	SQ YD	21	21		
	28100107	STONE RIPRAP, CLASS A4	SQ YD	517		517	
	28200200	FILTER FABRIC	SQ YD	538	21	517	
	31101100	SUBBASE GRANULAR MATERIAL, TYPE B	CU YD	55	47		8
	40600200	BITUMINOUS MATERIALS (PRIME COAT)	TON	3	3		
	40600625	LEVELING BINDER (MACHINE METHOD), N50	TON	105			105
	40600982	HOT-MIX ASPHALT SURFACE REMOVAL - BUTT JOINT	SQ YD	153	153		
	40603080	HOT-MIX ASPHALT BINDER COURSE, IL-19.0, N50	TON	872	840		32
	40603335	HOT-MIX ASPHALT SURFACE COURSE, MIX "D", N50	TON	418	187		231
	42001430	BRIDGE APPROACH PAVEMENT CONNECTOR (FLEXIBLE)	SQ YD	46	46		
	44000100	PAVEMENT REMOVAL	SQ YD	1,798	1,798		
	44300200	STRIP REFLECTIVE CRACK CONTROL TREATMENT	FOOT	730	730		
	48101500	AGGREGATE SHOULDERS, TYPE B 6"	SQ YD	110	110		
	48102100	AGGREGATE WEDGE SHOULDER, TYPE B	TON	24			24
	48203029	HOT-MIX ASPHALT SHOULDERS, 8"	SQ YD	560	560		
	50100100	REMOVAL OF EXISTING STRUCTURES	EACH	1		1	
	50104000	BRIDGE RAIL REMOVAL	FOOT	186		186	

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**STATE OF ILLINOIS  
DEPARTMENT OF TRANSPORTATION**

SUMMARY OF QUANTITIES			
SCALE:	SHEET NO. 3	OF 73 SHEETS	STA. TO STA.

F.A.U. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
2332	03-14185-02-BR	KANE	73	3
FED. ROAD DIST. NO. 1 ILLINOIS FED. AID PROJECT				
CONTRACT NO. 63521				



SPECIALTY ITEM	CODE NO.	ITEM	UNIT	TOTAL QUANTITY	CONSTRUCTION CODE		
					80% FEDERAL 20% STATE		100% LOCAL
					ROADWAY 0004 RURAL	BRIDGE 0011 RURAL	ROADWAY 0004 RURAL
	50105220	PIPE CULVERT REMOVAL	FOOT	33			33
	50200100	STRUCTURE EXCAVATION	CU YD	186		186	
	50200300	COFFERDAM EXCAVATION	CU YD	58		58	
	50202901	COFFERDAM (LOCATION - 1)	EACH	1		1	
	50300225	CONCRETE STRUCTURES	CU YD	85.7		85.7	
	50300255	CONCRETE SUPERSTRUCTURE	CU YD	237.5		237.5	
	50300260	BRIDGE DECK GROOVING	SQ YD	553		553	
	50300265	SEAL COAT CONCRETE	CU YD	24.8		24.8	
	50300280	CONCRETE ENCASEMENT	CU YD	4.2		4.2	
	50300300	PROTECTIVE COAT	SQ YD	671		671	
	50500105	FURNISHING AND ERECTING STRUCTURAL STEEL	L SUM	1		1	
	50500505	STUD SHEAR CONNECTORS	EACH	1,920		1,920	
	50800205	REINFORCEMENT BARS, EPOXY COATED	POUND	64,540		64,540	
	50800515	BAR SPLICERS	EACH	72		72	
	51201600	FURNISHING STEEL PILES HP12X53	FOOT	300		300	
	51201800	FURNISHING STEEL PILES HP14X73	FOOT	192		192	
	51202305	DRIVING PILES	FOOT	300		300	
	51203600	TEST PILE STEEL HP12X53	EACH	2		2	
	51204650	PILE SHOES	EACH	12		12	
	51500100	NAME PLATES	EACH	1		1	
	52100520	ANCHOR BOLTS, 1"	EACH	30		30	
	54215547	METAL END SECTIONS 12"	EACH	2			2
	59100100	GEOCOMPOSITE WALL DRAIN	SQ YD	54		54	
	60100060	CONCRETE HEADWALLS FOR PIPE DRAINS	EACH	6	6		
	60100945	PIPE DRAINS 12"	FOOT	100	100		
	60103500	PIPE DRAINS, CORRUGATED STEEL 12"	FOOT	29	29		
	60107600	PIPE UNDERDRAINS 4"	FOOT	439	439		
	60235300	INLETS, TYPE A, TYPE 1 FRAME, CLOSED LID	EACH	2	2		
S	63000001	STEEL PLATE BEAM GUARD RAIL, TYPE A, 6 FOOT POSTS	FOOT	437.5	437.5		
S	63100085	TRAFFIC BARRIER TERMINAL, TYPE 6	EACH	4	4		
S	63100167	TRAFFIC BARRIER TERMINAL, TYPE 1 (SPECIAL) TANGENT	EACH	4	4		
S	63200310	GUARDRAIL REMOVAL	FOOT	1,028	1,028		
S	X6650202	WOVEN WIRE FENCE REMOVAL	FOOT	320	320		
S	66600105	FURNISHING AND ERECTING RIGHT-OF-WAY MARKERS	EACH	6	6		

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**WILLS BURKE KELSEY ASSOCIATES LTD.**  
110 West Main Street, Suite 201  
St. Charles, Illinois 60174

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PLOT DATE = 11/9/2010	CHECKED -	REVISED -
	DATE - 10/22/10	REVISED -

**STATE OF ILLINOIS  
DEPARTMENT OF TRANSPORTATION**

**SUMMARY OF QUANTITIES**

SCALE: SHEET NO. 4 OF 73 SHEETS STA. TO STA.

F.A.U. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
2332	03-14185-02-BR	KANE	73	4
CONTRACT NO. 63521				
FED. ROAD DIST. NO. 1 ILLINOIS FED. AID PROJECT				



SPECIALTY ITEM	CODE NO.	ITEM	UNIT	TOTAL QUANTITY	CONSTRUCTION CODE		
					80% FEDERAL 20% STATE		100% LOCAL
					ROADWAY 0004 RURAL	BRIDGE 0011 RURAL	ROADWAY 0004 RURAL
	67000400	ENGINEER'S FIELD OFFICE, TYPE A	CAL MO	8	8		
	67100100	MOBILIZATION	L SUM	1	1		
	Xx008438	TRAFFIC CONTROL AND PROTECTION FOR TEMPORARY DETOUR	EACH	1	1		
	X7010238	CHANGEABLE MESSAGE SIGN, SPECIAL	CAL MO	5	5		
S	72000100	SIGN PANEL - TYPE 1	SQ FT	35	35		
S	72400100	REMOVE SIGN PANEL ASSEMBLY - TYPE A	EACH	7	7		
S	72400500	RELOCATE SIGN PANEL ASSEMBLY - TYPE A	EACH	2	2		
S	73000100	WOOD SIGN SUPPORT	FOOT	126	126		
S	78000200	THERMOPLASTIC PAVEMENT MARKING - LINE 4"	FOOT	6,080	3,160		2,920
S	78200410	GUARDRAIL MARKERS, TYPE A	EACH	10	10		
S	78200420	GUARDRAIL MARKERS, TYPE B	EACH	4	4		
S	78201000	TERMINAL MARKER - DIRECT APPLIED	EACH	4	4		
S	A2002716	TREE, CARYA OVATA (SHAGBARK HICKORY), 2" CALIPER, BALLED AND BURLAPPED	EACH	5	5		
S	A2002916	TREE, CELTIS OCCIDENTALIS (COMMON HACKBERRY), 2" CALIPER, BALLED AND BURLAPPED	EACH	5	5		
S	A2005016	TREE, GYMNOCLADUS DIOICUS (KENTUCKY COFFEETREE), 2" CALIPER, BALLED AND BURLAPPED	EACH	5	5		
S	A2005670	TREE, OSTRYA VIRGINIANA (AMERICAN HOPHORNBEAM), 8' HEIGHT, CLUMP FORM, BALLED AND BURLAPPED	EACH	5	5		
S	K1005420	SEEDING (SPECIAL)	SQ YD	150	150		
	X0323017	TEMPORARY INFORMATIONAL SIGNS	EACH	2	2		
	X0326806	WASHOUT BASIN	L SUM	1	1		
	X2070304	POROUS GRANULAR EMBANKMENT, SPECIAL	CU YD	97		97	
	X2130010	EXPLORATION TRENCH, SPECIAL	FOOT	100	100		
S	X2501800	SEEDING, CLASS 4 (MODIFIED)	ACRE	1.25	1.25		
S	X2501820	SEEDING, CLASS 5 (MODIFIED)	ACRE	1.25	1.25		
	XX006345	TURBIDITY BARRIER	FOOT	140	140		
	Z0001050	AGGREGATE SUBGRADE 12"	SQ YD	2,357	2,357		
	Z0013797	STABILIZED CONSTRUCTION ENTRANCE	SQ YD	75	75		
	Z0013798	CONSTRUCTION LAYOUT	L SUM	1	1		
	Z0042002	POROUS GRANULAR EMBANKMENT, SUBGRADE	CU YD	1,495	1,495		
	Z0046304	PIPE UNDERDRAINS FOR STRUCTURES 4"	FOOT	145		145	
	Z0065000	SETTING PILES IN ROCK	EACH	6		6	
	Δ Z0076600	TRAINEES	HOUR	500	500 *		

Δ=0042

\* CONSTRUCTION CODE 0042

FILE NAME = PACBBEL - Project - 22899 - 09 - 0882 - Bldg.dwg PHIT.CAD\1\09m\Shk\500\_03.dgn

**WILLS BURKE KELSEY ASSOCIATES LTD.**  
110 West Main Street, Suite 201  
St. Charles, Illinois 60174

USER NAME = *USER*	DESIGNED -	REVISED -
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PLOT DATE = 11/9/2010	CHECKED -	REVISED -
	DATE - 10/22/10	REVISED -

**STATE OF ILLINOIS  
DEPARTMENT OF TRANSPORTATION**

**SUMMARY OF QUANTITIES**

SCALE: SHEET NO. 5 OF 73 SHEETS STA. TO STA.

F.A.U. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
2332	03-14185-02-BR	KANE	73	5
FED. ROAD DIST. NO. 1			ILLINOIS FED. AID PROJECT	
CONTRACT NO. 63521				

LANDSCAPING AND EROSION CONTROL ITEMS

PAY ITEM	UNIT	Sta. 118+70 to Sta. 123+50	Sta. 123+50 to Sta. 130+00	TOTAL
TREE REMOVAL (6 TO 15 UNITS DIAMETER)	UNIT	16	56	72
TREE REMOVAL (OVER 15 UNITS DIAMETER)	UNIT	180	24	204
TEMPORARY FENCE	FOOT	0	30	30
SEEDING, CLASS 2A	ACRE	0.05	0.2	0.25
SEEDING, CLASS 4 (MODIFIED)	ACRE	0.33	0.92	1.25
SEEDING, CLASS 5 (MODIFIED)	ACRE	0.33	0.92	1.25
EROSION CONTROL BLANKET	SQ YD	1543	5717	7260
TEMPORARY EROSION CONTROL SEEDING	POUND	64	239	303
PERIMETER EROSION BARRIER	FOOT	889	1331	2220

MARKING, STRIPING, AND SIGNAGE ITEMS

PAY ITEM	UNIT	Sta. 114+90 to Sta. 118+70	Sta. 118+70 to Sta. 124+50	Sta. 124+50 to Sta. 126+60	Sta. 126+60 to Sta. 130+10	TOTAL
SIGN PANEL - TYPE 1	SQ FT	0	26	9	0	35
RELOCATE SIGN PANEL ASSEMBLY - TYPE A	EACH	0	2	0	0	2
WOOD SIGN SUPPORT	FOOT	0	112	14	0	126
THERMOPLASTIC PAVEMENT MARKING - LINE 4"	FOOT	1520	2320	840	1400	6080
TEMPORARY INFORMATIONAL SIGNS	EACH	1	0	0	1	2
GUARDRAIL MARKERS, TYPE A	EACH	0	8	2	0	10
GUARDRAIL MARKERS, TYPE B	EACH	0	4	0	0	4
TERMINAL MARKER - DIRECT APPLIED	EACH	0	2	2	0	4

PAVEMENT ITEMS

PAY ITEM	UNIT	Sta. 114+90 to Sta. 118+70	Sta. 118+70 to Sta. 124+50	Sta. 124+50 to Sta. 126+60	Sta. 126+60 to Sta. 130+10	TOTAL
LEVELING BINDER (MACHINE METHOD), N50	TON	55	0	0	50	105
HOT-MIX ASPHALT SURFACE REMOVAL - BUTT JOINT	SQ YD	76	0	0	77	153
HOT-MIX ASPHALT BINDER COURSE, IL-19.0, N50	TON	0	558	282	32	872
HOT-MIX ASPHALT SURFACE COURSE, MIX "D", N50	TON	115	124	63	116	418
AGGREGATE SHOULDERS, TYPE B 6"	SQ YD	0	31	79	0	110
AGGREGATE WEDGE SHOULDER, TYPE B	TON	13	0	0	11	24
HOT-MIX ASPHALT SHOULDERS, 8"	SQ YD	0	382	178	0	560


REMOVAL ITEMS

PAY ITEM	UNIT	Sta. 114+90 to Sta. 118+70	Sta. 118+70 to Sta. 124+50	Sta. 124+50 to Sta. 126+60	Sta. 126+60 to Sta. 130+10	TOTAL
PAVEMENT REMOVAL	SQ YD	0	997	801	0	1798
GUARDRAIL REMOVAL	FOOT	0	715	313	0	1028
REMOVE SIGN PANEL ASSEMBLY - TYPE A	EACH	0	6	1	0	7

GUARDRAIL ITEMS

PAY ITEM	UNIT	Sta. 114+90 to Sta. 118+70	Sta. 118+70 to Sta. 124+50	Sta. 124+50 to Sta. 126+60	Sta. 126+60 to Sta. 130+10	TOTAL
STEEL PLATE BEAM GUARD RAIL, TYPE A, 6 FOOT POSTS	FOOT	0	399.2	38.3	0	437.5
TRAFFIC BARRIER TERMINAL, TYPE 6	EACH	0	4	0	0	4
TRAFFIC BARRIER TERMINAL, TYPE 1 (SPECIAL) TANGENT	EACH	0	2	2	0	4

FILE NAME = P:\CIBEL\WEST Projects\2289\98-8882\Bolsum\PRINT\G:\1\Drawn\SHAS\SCHEDULE.L.dgn

 <b>WILLS BURKE KELSEY ASSOCIATES LTD.</b> 118 West Main Street, Suite 201 St. Charles, Illinois 60174	USER NAME = #USER#	DESIGNED -	REVISED -	<b>STATE OF ILLINOIS</b> <b>DEPARTMENT OF TRANSPORTATION</b>	<b>SCHEDULE OF QUANTITIES</b>		F.A.U. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
	PLOT SCALE =	CHECKED -	REVISED -				2332	03-14185-02-BR	KANE	73	6
PLOT DATE = 10/22/10	DATE = 10/22/10	REVISED -		SCALE:	SHEET NO. 6 OF 73 SHEETS	STA. TO STA.	CONTRACT NO. 63521 FED. ROAD DIST. NO. 1 ILLINOIS FED. AID PROJECT				

SUMMARY OF EARTHWORK

SCHEDULE OF EARTHWORK							
LOCATION	TOPSOIL			EARTH WORK			
	EXCAVATION	PLACEMENT	20201200	20200100	EMBANKMENT	20400800	20201200
			BALANCE WASTE (+) or SHORTAGE (-)	EARTH EXCAVATION		BALANCE WASTE (+) or SHORTAGE (-) (FURNISHED)	& 20042002 ESTIMATED UNSUITABLE (UNDERCUT)
(CY)	(CY)	(CY)	(CY)	(CY)	(CY)	(CY)	
118+70.00							
119+00.00	16.3	12.4	3.9	33.72	11.44	+17.22	71.67
119+04.35	3.3	2.5	0.9	5.31	2.96	+1.55	10.59
119+39.35	25.8	18.5	7.3	44.85	17.82	+20.30	85.94
119+50.00	7.8	5.7	2.1	14.04	3.37	+8.56	24.77
119+91.87	27.7	18.7	9.0	51.10	14.11	+29.33	119.87
120+00.00	4.7	2.6	2.1	8.96	3.19	+4.43	23.19
120+26.87	16.4	9.5	6.9	25.23	13.78	+7.67	76.43
120+37.37	6.7	4.2	2.5	8.11	5.11	+1.78	28.66
120+50.00	8.4	5.6	2.8	7.74	4.77	+1.81	34.48
121+00.00	35.8	24.7	11.1	12.50	55.28	-44.66	107.96
121+24.00	17.6	12.3	5.3	0.00	51.33	-51.33	42.93
121+42.50	13.5	10.0	3.5	0.00	49.95	-49.95	31.66
121+50.00	5.6	4.4	1.2	0.00	23.04	-23.04	11.94
121+72.50	16.3	12.6	3.7	0.00	83.58	-83.58	26.67
BRIDGE OMISSION							
122+77.50							
123+00.00	17.5	13.5	4.0	0.00	101.88	-101.88	23.25
123+07.50	6.0	4.8	1.2	0.00	33.07	-33.07	8.44
123+50.00	48.7	25.9	22.8	0.00	180.00	-180.00	61.55
124+00.00	79.2	28.0	51.2	0.00	170.28	-170.28	112.96
124+22.38	37.6	11.8	25.8	1.24	55.70	-54.65	57.11
124+32.77	16.8	5.4	11.4	1.54	23.03	-21.72	27.63
124+50.00	25.6	9.4	16.2	4.21	37.49	-33.91	47.35
124+67.77	25.0	9.9	15.1	6.71	32.91	-27.21	50.09
125+00.00	45.2	18.0	27.2	19.10	48.64	-32.41	74.73
125+14.21	20.4	7.6	12.8	11.16	20.68	-11.19	34.84
125+50.00	84.3	18.6	65.7	32.81	67.27	-39.38	87.75
126+00.00	185.5	28.8	156.7	46.39	84.91	-45.48	95.74
126+50.00	201.0	26.0	175.0	42.31	99.17	-63.21	95.74
126+60.00	38.8	4.4	34.4	8.24	28.63	-21.63	19.15
127+00.00	130.4	8.7	121.7	17.85	57.48	-42.31	0.00
127+50.00	136.5	0.0	136.5	3.24	1.11	+1.64	0.00
127+60.00	24.5	0.0	24.5	0.50	0.22	+0.21	0.00
<b>TOTAL</b>	<b>1,329</b>	<b>364</b>	<b>964</b>	<b>407</b>	<b>1,382</b>	<b>-1,036</b>	<b>1,493</b>
<b>ROUNDED QTY.</b>		<b>365</b>	<b>965</b>	<b>410</b>		<b>1,040</b>	<b>1,495</b>

EARTHWORK GENERAL NOTES

ALL EARTHWORK QUANTITIES ARE CALCULATED BY THE METHOD OF AVERAGE END AREAS USING THE PLAN CROSS SECTIONS. SHRINKAGE FACTOR, ASSUMED TO BE 15% FOR THIS PROJECT, ARE ESTIMATED FOR THE SOLE PURPOSE OF DETERMINING A BALANCE OF EARTHWORK. THE CONTRACTOR SHALL ESTIMATE HIS OWN SHRINKAGE FACTORS IN DETERMINING HIS EARTHWORK. NO PAYMENT WILL BE MADE ON EARTHWORK QUANTITIES DUE TO VARIATION IN THE SHRINKAGE FACTOR SINCE EARTHWORK IS MEASURED IN ITS FINAL POSITION.

IN ADDITION TO NUCLEAR DENSITY TESTING OF EMBANKMENTS AND SUBGRADES, THE FINAL SHALL BE PROOF ROLLED USING A FULLY LOADED SEMI TRUCK. THE PROOF-ROLL SHOULD DEMONSTRATE A MAXIMUM ONE-QUARTER (1/4) INCH DEFLECTION AT TOP OF SUBGRADE LEVEL. THE NUMBER OF PROOF ROLLS AS REQUIRED BY THE ENGINEER SHALL BE CONSIDERED INCIDENTAL TO THE CONTRACT.

TEMPORARY EARTH STOCKPILES WILL NOT BE ALLOWED ON THE ADJACENT PROPERTIES WITHOUT THE PERMISSION OF THE OWNER AND APPROVAL OF THE ENGINEER. IT WILL BE THE CONTRACTOR'S RESPONSIBILITY TO ACQUIRE PERMISSION FROM THE APPROPRIATE OWNER PRIOR TO STOCK PILING ANY MATERIALS ON THOSE PROPERTIES. IF THIS SPACE IS NOT AVAILABLE, THE CONTRACTOR SHALL MAKE OTHER PROVISIONS FOR HANDLING THESE MATERIALS DURING CONSTRUCTION OPERATIONS.

EARTH EXCAVATION AND EMBANKMENT SHALL BE PAID FOR ONLY ONCE, REGARDLESS OF STAGING OR SEQUENCING OF CONTRACTORS OPERATIONS THAT REQUIRE STOCKPILING OF MATERIALS FOR LATER USE, REDISTRIBUTION AND RESPREADING IN SHOULDERS AND CONSTRUCTING OF EMBANKMENTS.

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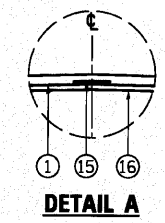
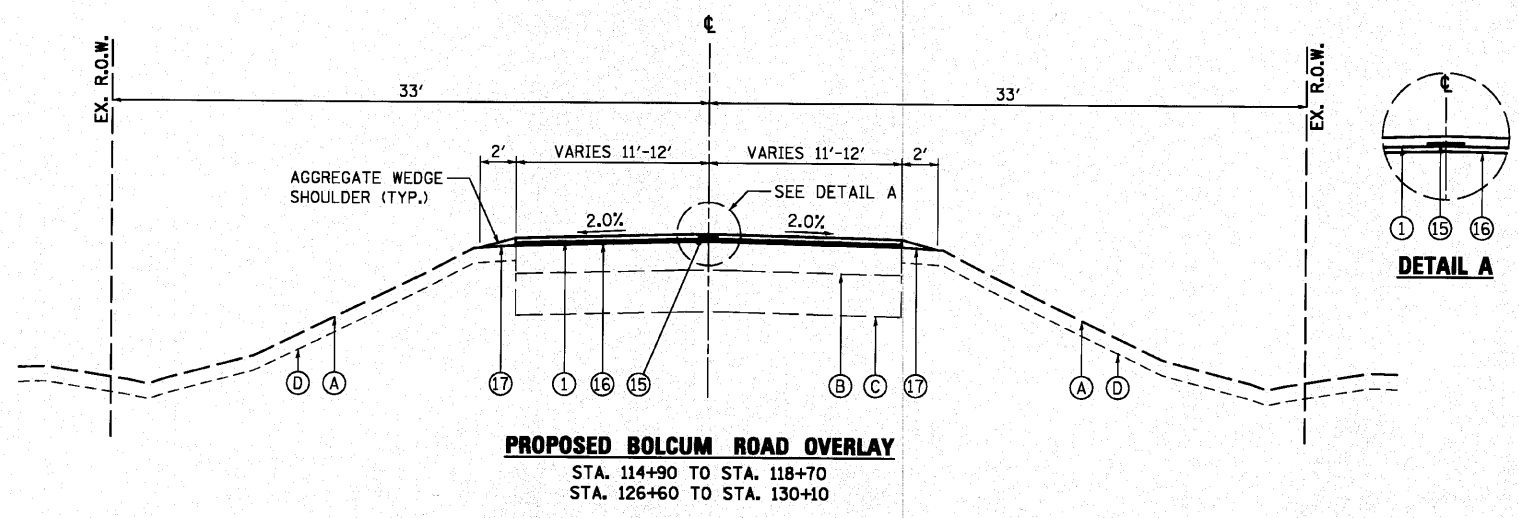
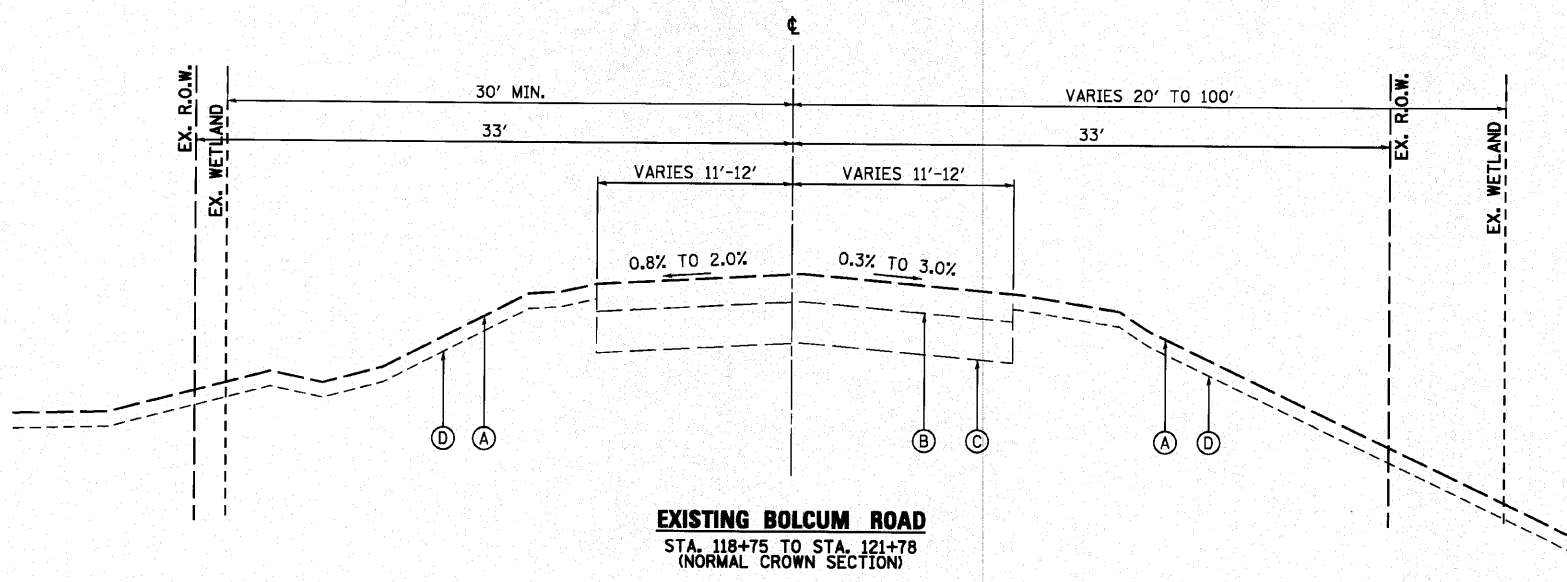
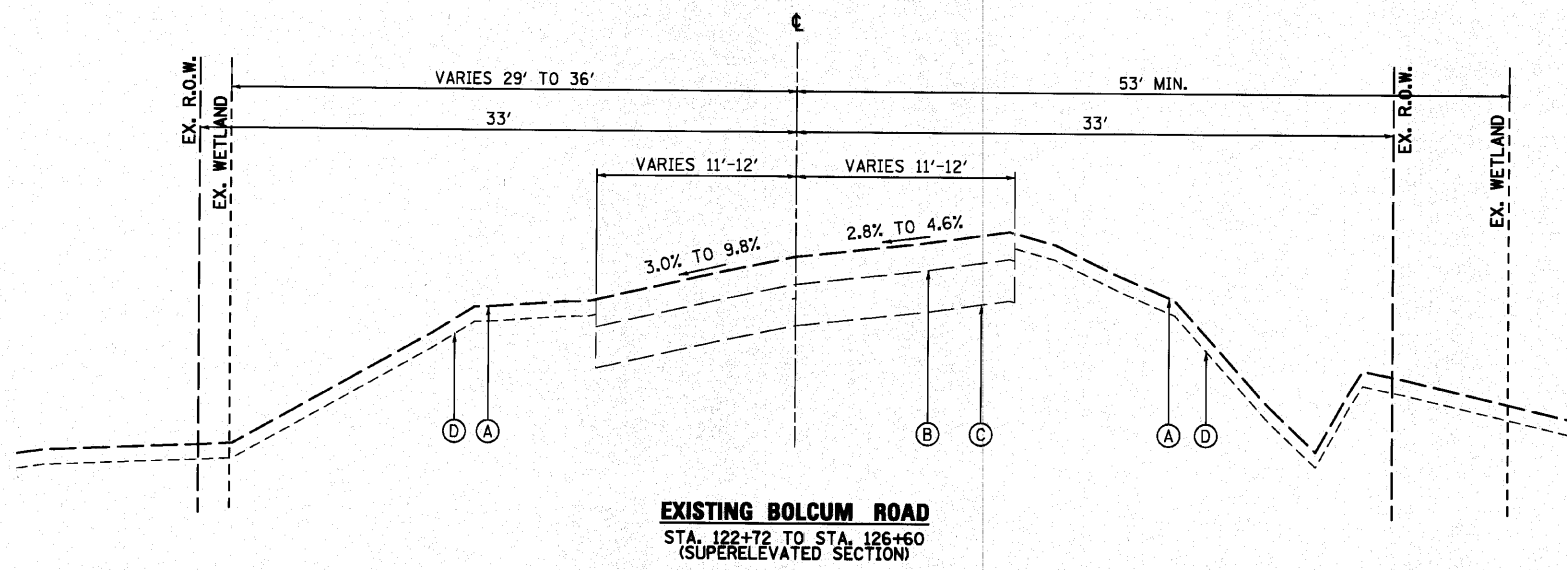
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PLOT DATE = 10/21/2010	CHECKED -	REVISED -
	DATE - 10/22/10	REVISED -

STATE OF ILLINOIS  
DEPARTMENT OF TRANSPORTATION

EARTHWORK SCHEDULE

F.A.J. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
2332	03-14185-02-BR	KANE	73	7
CONTRACT NO. 63521				
SCALE:	SHEET NO. 7 OF 73 SHEETS	STA.	TO STA.	FED. ROAD DIST. NO. 1 ILLINOIS FED. AID PROJECT





**LEGEND, EXISTING**

- (A) EXISTING GROUND
- (B) EXISTING HOT-MIX ASPHALT PAVEMENT, 7.0"-7.3"
- (C) EXISTING AGGREGATE BASE, 11"\*
- (D) EXISTING TOPSOIL

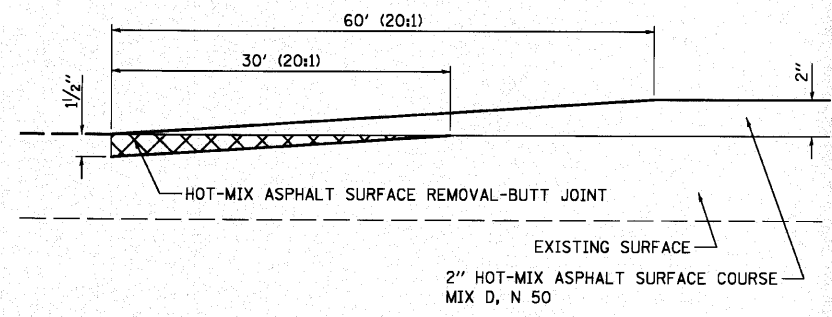
\* INFORMATION ON PAVEMENT AND BASE COURSE THICKNESS WAS TAKEN FROM INFORMATION DOCUMENTED IN THE SUBSURFACE INVESTIGATION REPORT PREPARED BY TESTING SERVICE CORPORATION DATED OCTOBER 13, 2004. SEE ADDITIONAL NOTES BELOW.

**EXISTING PAVEMENT NOTES**

IT SHALL BE THE RESPONSIBILITY OF THE CONTRACTOR TO VERIFY THE THICKNESS OF THE EXISTING PAVEMENTS TO BE REMOVED AND THE EXTENT TO WHICH IT IS REINFORCED. NO ADDITIONAL COMPENSATION WILL BE ALLOWED BECAUSE OF VARIATIONS FROM THE ASSUMED THICKNESS SHOWN ON THE PLANS OR FOR VARIATIONS IN THE AMOUNT OF REINFORCEMENT.

**LEGEND, PROPOSED**

- (1) 2" HMA SURFACE COURSE, MIX "D", N50 (40603335)
- (2) 9" HMA BINDER COURSE, IL-19.0, N50 (2 LIFTS - 40603080)
- (3) AGGREGATE SUBGRADE, 12" (Z0001050)
- (4) GEOTECHNICAL FABRIC FOR GRND. STABILIZATION (21001000)
- (5) AGGREGATE SHOULDERS, TYPE B 6" (48101500)
- (6) HMA SHOULDERS, 8" (48203029)
- (7) SUB-BASE GRANULAR MATERIAL, TYPE B (31101100)
- (8) 6" TOPSOIL EXCAVATION AND PLACEMENT (21101505)
- (9) SEEDING CLASS 2A, 4(MOD.), 5(MOD.) W/EROSION CONTROL BLANKET
- (10) STRUCTURAL EMBANKMENT (TO BE PAID AS FURNISHED EXCAVATION - 20400800)
- (11) STEEL PLATE BEAM GUARDRAIL, TYPE A, 6' POSTS (63000001)
- (12) PIPE UNDERDRAIN WITH FILTER FABRIC ENVELOPE, 4" (60107600)
- (13) POROUS GRANULAR EMBANKMENT, SUBGRADE (20700420)
- (14) PARAPET (SEE STRUCTURAL PLANS)
- (15) STRIP REFLECTIVE CRACK CONTROL TREATMENT (44300200)
- (16) LEVELING BINDER (MACHINE METHOD), N50 (40600625)
- (17) AGGREGATE WEDGE SHOULDER, TYPE B (48102100)



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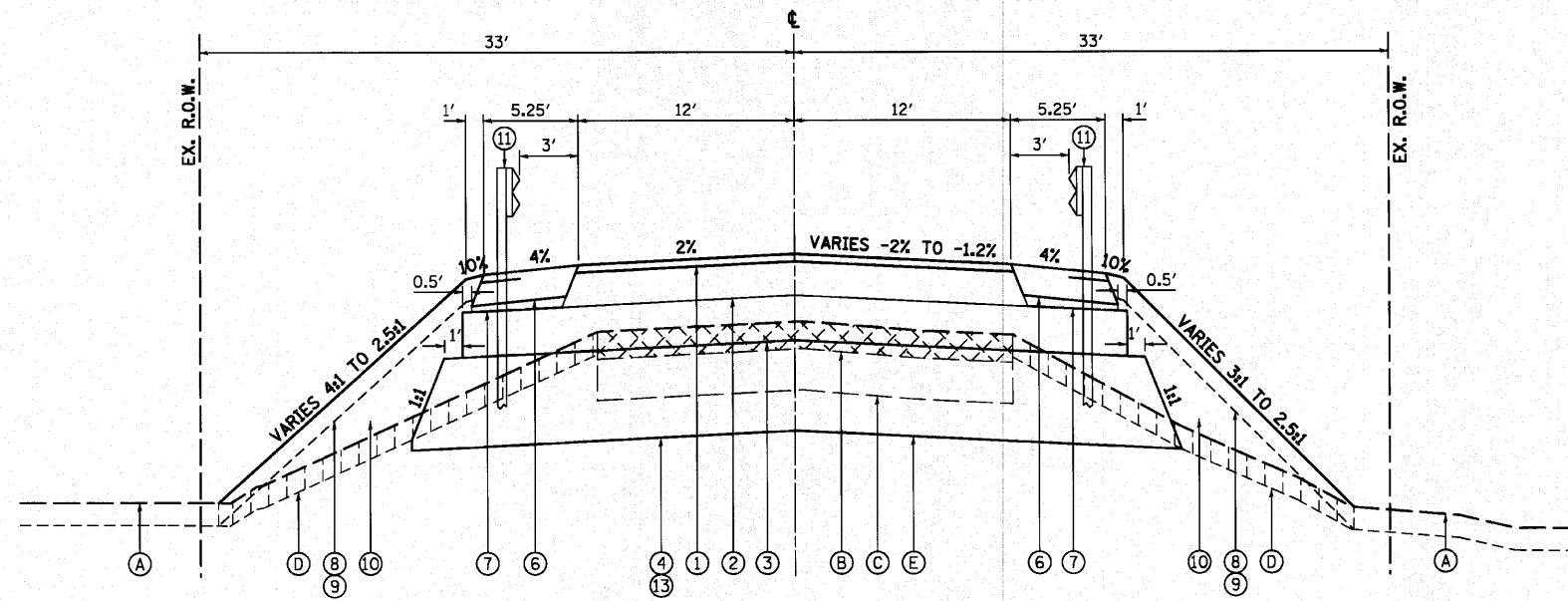
**WBK** WILLS BURKE KELSEY ASSOCIATES LTD.  
 110 West Main Street, Suite 201  
 St. Charles, Illinois 62274

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**STATE OF ILLINOIS**  
**DEPARTMENT OF TRANSPORTATION**

<b>TYPICAL SECTIONS</b>	
<b>EXISTING</b>	
SCALE:	SHEET NO. 8 OF 73 SHEETS STA. TO STA.

F.A.U. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
2332	03-14185-02-BR	KANE	73	8
CONTRACT NO. 63521				
FED. ROAD DIST. NO. 1 ILLINOIS FED. AID PROJECT				



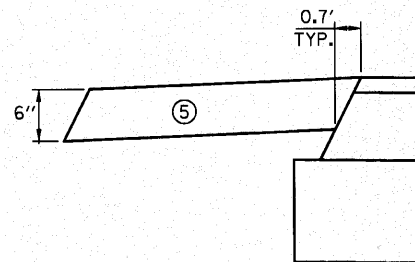
**PROPOSED BOLCUM ROAD**

STA. 119+67.9 LT./STA. 118+77.9 RT. TO STA 121+42.5

ADD STATION RANGE AND THICKNESS ON UNDERCUT

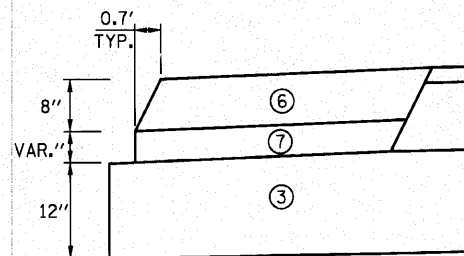
ESTIMATED QUANTITIES FOR UNDERCUTTING, PGES, AND GEOTECHNICAL FABRIC

STATION LIMITS		ESTIMATED THICKNESS PGES
FROM	TO	
118+70	126+60	24 INCHES



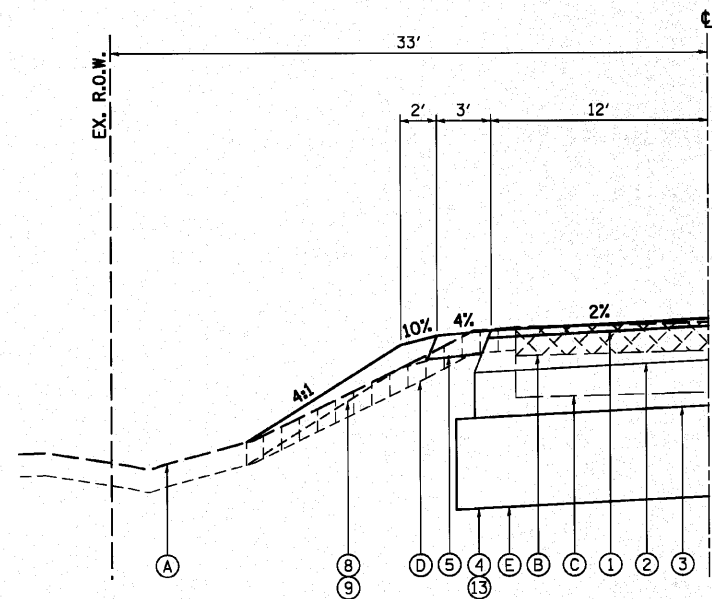
FROM STA. 118+70.00 TO STA. 119+67.86 LT  
FROM STA. 125+74.04 TO STA. 126+60.00 LT

**AGGREGATE SHOULDER DETAIL**



FROM STA. 119+49.86 TO STA. 121+42.50 LT  
FROM STA. 118+70.00 TO STA. 121+42.50 RT  
FROM STA. 123+07.58 TO STA. 125+92.04 LT  
FROM STA. 123+07.42 TO STA. 125+09.77 RT

**HMA SHOULDER DETAIL**



**PROPOSED BOLCUM ROAD**

STA. 118+70 LT. TO STA 119+67.9 LT.

**LEGEND, EXISTING**

- (A) EXISTING GROUND
- (B) EXISTING HOT-MIX ASPHALT PAVEMENT, 7.0"-7.3" (TO BE REMOVED - 44000100)
- (C) EXISTING AGGREGATE BASE, 11" (REMOVED AS NECESSARY- INCLUDED IN EARTH EXCAVATION)
- (D) EXISTING TOPSOIL - (TO BE REMOVED - 20201200)
- (E) EXISTING UNSUITABLE MATERIAL - (TO BE REMOVED - 20201200)

**LEGEND, PROPOSED**

- (1) 2" HMA SURFACE COURSE, MIX "D", N50 (40603335)
- (2) 9" HMA BINDER COURSE, IL-19.0, N50 (2 LIFTS - 40603080)
- (3) AGGREGATE SUBGRADE, 12" (Z0001050)
- (4) GEOTECHNICAL FABRIC FOR GRND. STABILIZATION (21001000)
- (5) AGGREGATE SHOULDERS, TYPE B 6" (48101500)
- (6) HMA SHOULDERS, 8" (48203029)
- (7) SUB-BASE GRANULAR MATERIAL, TYPE B (31101100)
- (8) 6" TOPSOIL EXCAVATION AND PLACEMENT (21101505)
- (9) SEEDING CLASS 2A, 4(MOD.), 5(MOD.) W/EROSION CONTROL BLANKET
- (10) STRUCTURAL EMBANKMENT (TO BE PAID AS FURNISHED EXCAVATION - 20400800)
- (11) STEEL PLATE BEAM GUARDRAIL, TYPE A, 6' POSTS (63000001)
- (12) PIPE UNDERDRAIN WITH FILTER FABRIC ENVELOPE, 4" (60107600)
- (13) POROUS GRANULAR EMBANKMENT, SUBGRADE (20700420)
- (14) PARAPET (SEE STRUCTURAL PLANS)
- (15) STRIP REFLECTIVE CRACK CONTROL TREATMENT (44300200)
- (16) LEVELING BINDER (MACHINE METHOD), N50 (40600625)
- (17) AGGREGATE WEDGE SHOULDER, TYPE B (48102100)

**STRUCTURAL PAVEMENT DESIGN**

STRUCTURAL DESIGN TRAFFIC: Year 2030  
PV = 9400 SU = 300 MU = 300  
ROAD/STREET CLASSIFICATION: Class 2  
PERCENT OF STRUCTURAL DESIGN TRAFFIC IN DESIGN LANE:  
P = 94 S = 3 M = 3  
TRAFFIC FACTOR: Actual TF = 1.51 AC Type = PG 64-22  
Minimum TF = NA  
PG GRADE: Binder = PG 64-22 /58-22 Surface = PG 64-22  
SUBGRADE SUPPORT RATING: SSR = POOR

HOT-MIX ASPHALT MIXTURE REQUIREMENTS	
ITEM	AIR VOIDS @ Ndes
<b>BOLCUM ROAD - RECONSTRUCTION</b>	
HOT-MIX ASPHALT SURFACE COURSE, MIX "D", N50 (IL 9.5 mm); 2"	4% @ 50 GYR.
HOT-MIX ASPHALT BINDER COURSE, IL-19.0, N50; 9"	4% @ 50 GYR.
<b>BOLCUM ROAD - RESURFACING</b>	
HOT-MIX ASPHALT SURFACE COURSE, MIX "D", N50 (IL 9.5 mm); 2"	4% @ 50 GYR.
LEVELING BINDER (MACHINE METHOD), N50	4% @ 50 GYR.
<b>BOLCUM ROAD - APPROACH PAVEMENT CONNECTOR (FLEXIBLE)</b>	
HOT-MIX ASPHALT SURFACE COURSE, MIX "D", N50 (IL 9.5 mm); 2"	4% @ 50 GYR.
HOT-MIX ASPHALT BINDER COURSE, IL-19.0, N50	4% @ 50 GYR.
<b>HMA SHOULDERS</b>	
HOT-MIX ASPHALT SHOULDER (HMA BINDER IL-19 mm), 8"	2% @ 30 GYR.
<b>DRIVEWAYS- C.E.</b>	
HOT-MIX ASPHALT SURFACE COURSE, MIX "D", N50 (IL 9.5 mm); 2"	4% @ 50 GYR.
HOT-MIX ASPHALT BASE COURSE (HMA BINDER IL-19 mm), 8"	4% @ 50 GYR.

THE UNIT WEIGHT USED TO CALCULATE ALL HMA SURFACE MIXTURE QUANTITIES IS 112 LB/SQ YD/IN.  
THE AC TYPE FOR NON-POLYMERIZED HMA THE "AC TYPE" SHALL BE "PG64-22" UNLESS MODIFIED BY DISTRICT ONE SPECIAL PROVISIONS. FOR "PERCENT OF RAP" SEE DISTRICT ONE SPECIAL PROVISIONS.

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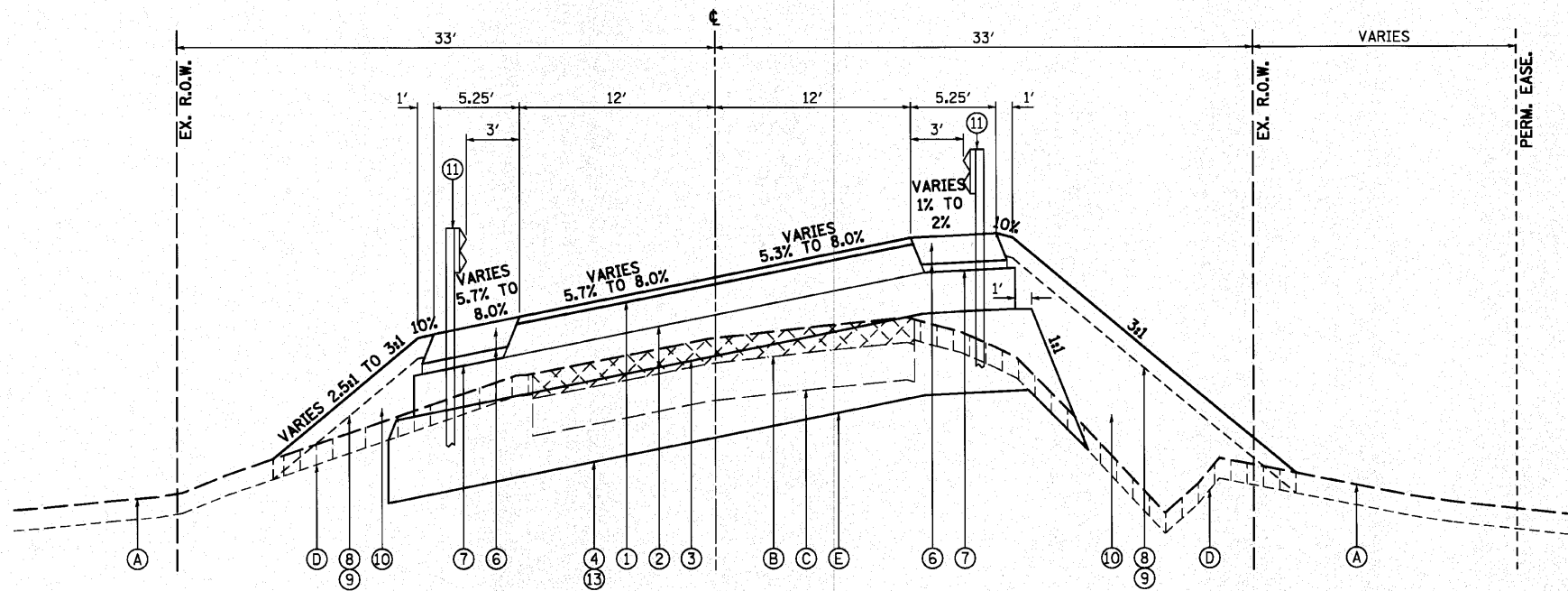
**WBK** WILLS BURKE KELSEY ASSOCIATES LTD.  
116 West Main Street, Suite 201  
St. Charles, Illinois 60174

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	DATE - 10/22/10	REVISED -

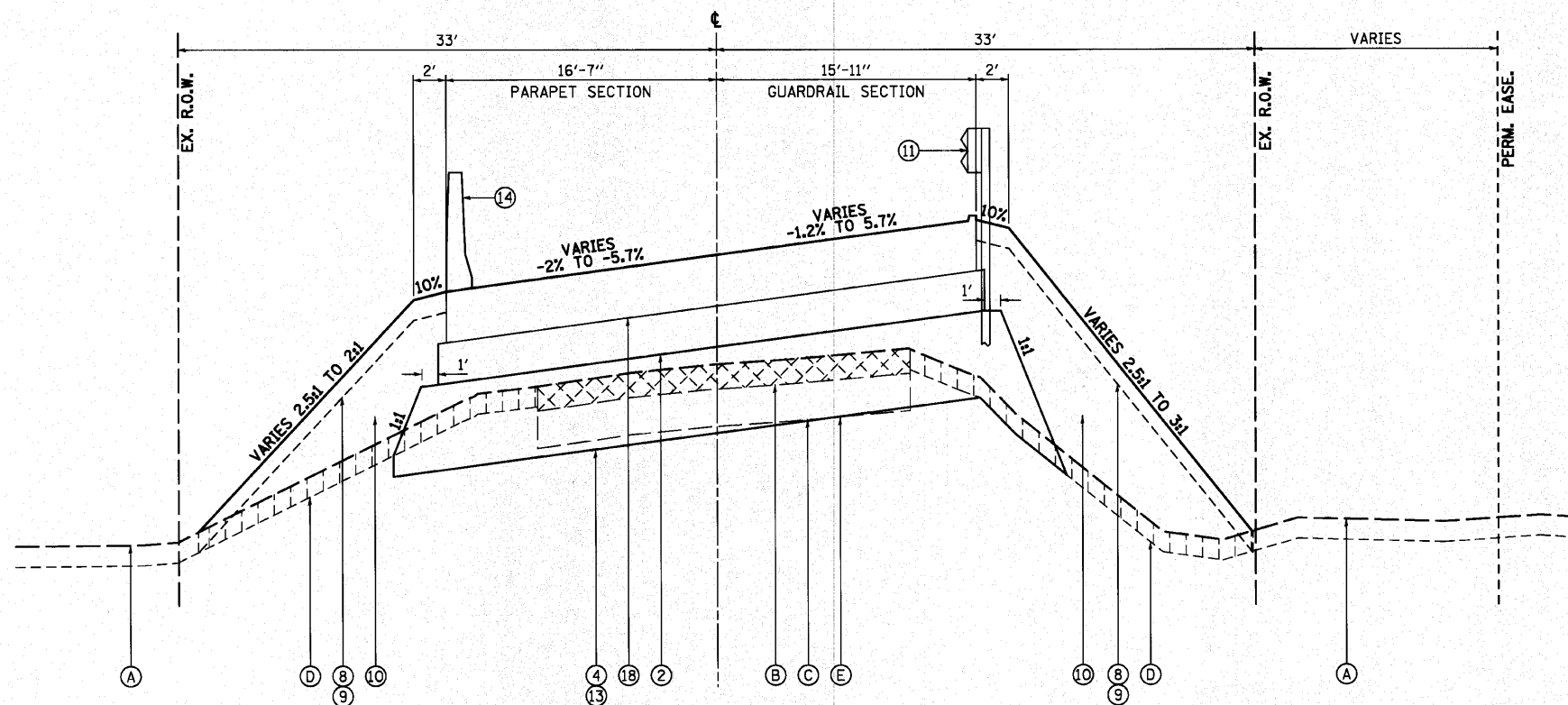
**STATE OF ILLINOIS  
DEPARTMENT OF TRANSPORTATION**

<b>TYPICAL SECTIONS PROPOSED</b>	
SCALE:	SHEET NO. 9 OF 73 SHEETS STA. TO STA.

F.A.U. RTE. 2332	SECTION 03-14185-02-BR	COUNTY KANE	TOTAL SHEETS 73	SHEET NO. 9
FED. ROAD DIST. NO. 1 [ILLINOIS] FED. AID PROJECT			CONTRACT NO. 63521	



**PROPOSED BOLCUM ROAD**  
STA. 123+07.50 TO STA. 123+64



**PROPOSED BOLCUM ROAD**  
STA. 121+42.50 TO STA. 121+75.50  
STA. 122+77.50 TO STA. 123+07.50

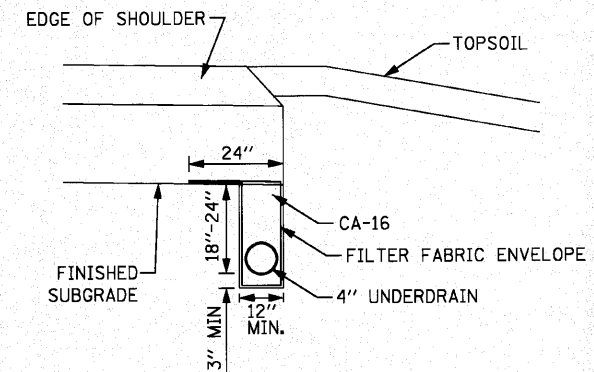
PARAPET WALL BETWEEN STA. 121+57.5 AND 122+92.5.

**LEGEND, EXISTING**

- (A) EXISTING GROUND
- (B) EXISTING HOT-MIX ASPHALT PAVEMENT, 7.0"-7.3" (TO BE REMOVED - 44000100)
- (C) EXISTING AGGREGATE BASE, 11" (REMOVED AS NECESSARY- INCLUDED IN EARTH EXCAVATION)
- (D) EXISTING TOPSOIL - (TO BE REMOVED - 20201200)
- (E) EXISTING UNSUITABLE MATERIAL - (TO BE REMOVED - 20201200)

**LEGEND, PROPOSED**

- (1) 2" HMA SURFACE COURSE, MIX "D", N50 (40603335)
- (2) 9" HMA BINDER COURSE, IL-19.0, N50 (2 LIFTS - 40603080)
- (3) AGGREGATE SUBGRADE, 12" (20001050)
- (4) GEOTECHNICAL FABRIC FOR GRND. STABILIZATION (21001000)
- (5) AGGREGATE SHOULDERS, TYPE B 6" (48101500)
- (6) HMA SHOULDERS, 8" (48203029)
- (7) SUB-BASE GRANULAR MATERIAL, TYPE B (31101100)
- (8) 6" TOPSOIL EXCAVATION AND PLACEMENT (21101505)
- (9) SEEDING CLASS 2A, 4(MOD.), 5(MOD.) W/EROSION CONTROL BLANKET
- (10) STRUCTURAL EMBANKMENT (TO BE PAID AS FURNISHED EXCAVATION - 20400800)
- (11) STEEL PLATE BEAM GUARDRAIL, TYPE A, 6' POSTS (63000001)
- (12) PIPE UNDERDRAIN WITH FILTER FABRIC ENVELOPE, 4" (60107600)
- (13) POROUS GRANULAR EMBANKMENT, SUBGRADE (20700420)
- (14) PARAPET (SEE STRUCTURAL PLANS)
- (15) STRIP REFLECTIVE CRACK CONTROL TREATMENT (44300200)
- (16) LEVELING BINDER (MACHINE METHOD), N50 (40600625)
- (17) AGGREGATE WEDGE SHOULDER, TYPE B (48102100)
- (18) BRIDGE APPROACH PAVEMENT (SEE STRUCTURAL PLANS)



**UNDERDRAIN DETAIL**  
STA. 123+08.00 TO STA. 125+60.00 LT

**UNDERDRAIN NOTES**

1. PIPE UNDERDRAINS TO BE PLACED AS INDICATED ON THE PLANS.
2. CAPS, PLUGS, WYES, AND TEES ARE CONSIDERED INCLUDED IN THE COST OF THE UNDERDRAINS.
3. ALL END RUNS SHALL HAVE A CAP OR PLUG.
4. UNDERDRAINS SHALL BE CONNECTED AS SHOWN ON THE PLANS WHICH COST IS INCLUDED IN THE COST OF THE UNDERDRAINS.
5. UNDERDRAIN MATERIAL SHALL BE PERFORATED CORRUGATED POLYETHYLENE TUBING.
6. EXCAVATION, FABRIC AND POROUS GRANULAR BACKFILL AS SPECIFIED SHALL BE INCLUDED IN THE COST OF THE UNDERDRAIN.

FILE NAME = P:\CIBEL\WEST Projects\2009\08-0802 Bolcum PH1\Civil\Drawn\SHA\TYPICAL.dgn

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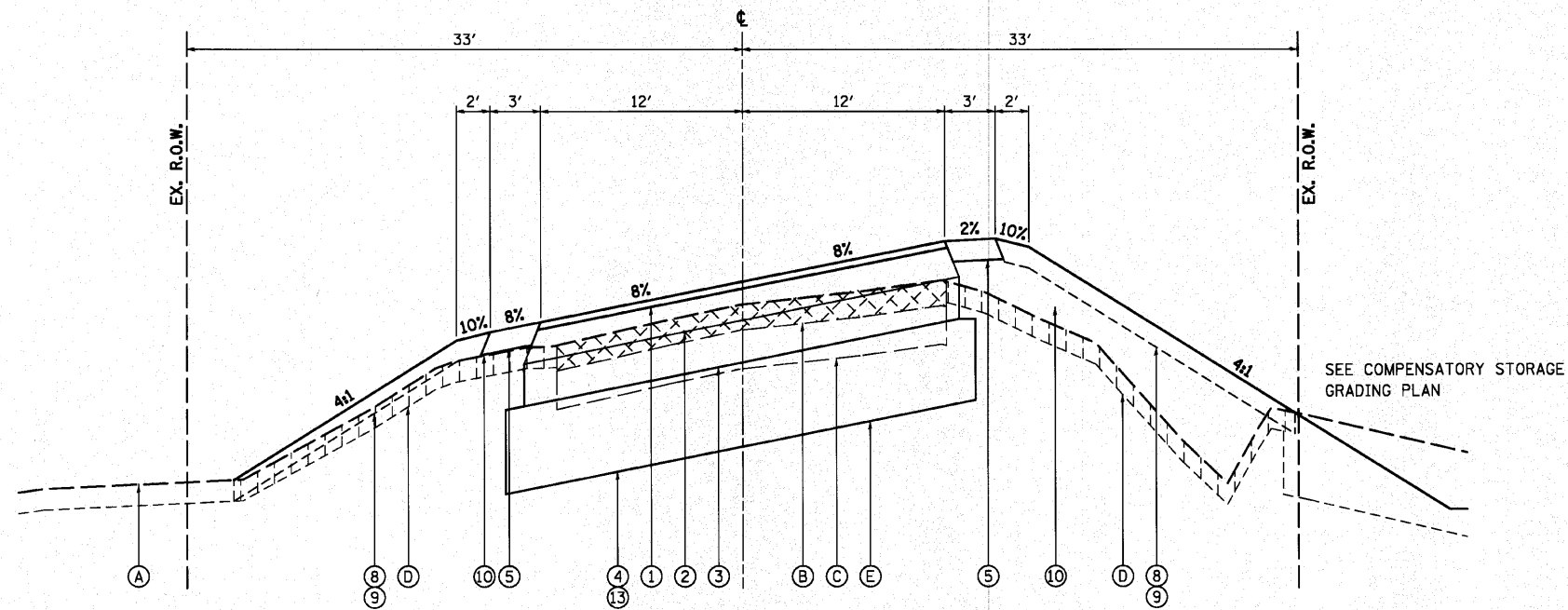
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**STATE OF ILLINOIS**  
**DEPARTMENT OF TRANSPORTATION**

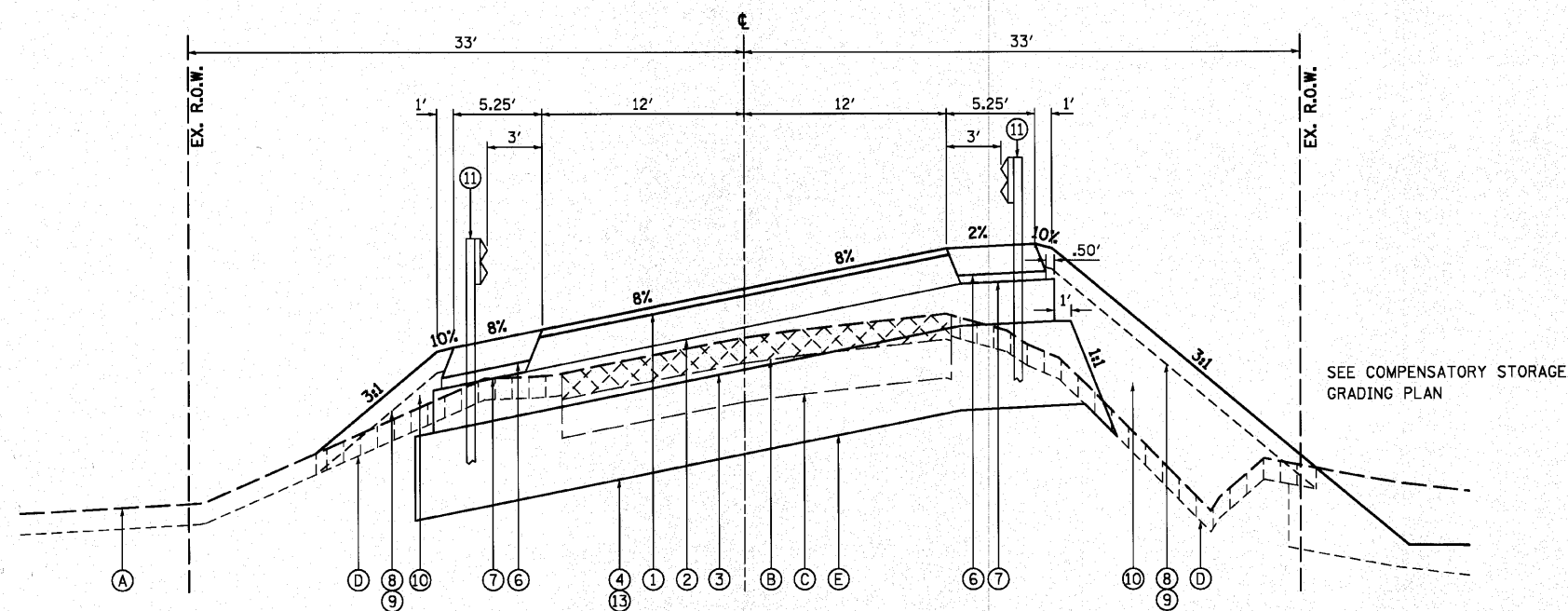
<b>TYPICAL SECTIONS</b>	
<b>PROPOSED</b>	
SCALE:	SHEET NO. 10 OF 73 SHEETS STA. TO STA.

F.A.U. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
2332	03-14185-02-BR	KANE	73	10
FED. ROAD DIST. NO. 1 (ILLINOIS) FED. AID PROJECT				
CONTRACT NO. 63521				





**PROPOSED BOLCUM ROAD**  
 STA. 125+74 LT./STA. 124+91.8 RT. TO STA. 126+75



**PROPOSED BOLCUM ROAD**  
 STA. 123+64 TO STA. 125+74 LT./STA. 124+91.8 RT.

**LEGEND, EXISTING**

- (A) EXISTING GROUND
- (B) EXISTING HOT-MIX ASPHALT PAVEMENT, 7.0"-7.3" (TO BE REMOVED - 44000100)
- (C) EXISTING AGGREGATE BASE, 11" (REMOVED AS NECESSARY- INCLUDED IN EARTH EXCAVATION)
- (D) EXISTING TOPSOIL - (TO BE REMOVED - 20201200)
- (E) EXISTING UNSUITABLE MATERIAL - (TO BE REMOVED - 20201200)

**LEGEND, PROPOSED**

- (1) 2" HMA SURFACE COURSE, MIX "D", N50 (40603335)
- (2) 9" HMA BINDER COURSE, IL-19.0, N50 (2 LIFTS - 40603080)
- (3) AGGREGATE SUBGRADE, 12" (Z0001050)
- (4) GEOTECHNICAL FABRIC FOR GRND. STABILIZATION (21001000)
- (5) AGGREGATE SHOULDERS, TYPE B 6" (48101500)
- (6) HMA SHOULDERS, 8" (48203029)
- (7) SUB-BASE GRANULAR MATERIAL, TYPE B (31101100)
- (8) 6" TOPSOIL EXCAVATION AND PLACEMENT (21101505)
- (9) SEEDING CLASS 2A, 4(MOD.), 5(MOD.) W/EROSION CONTROL BLANKET
- (10) STRUCTURAL EMBANKMENT (TO BE PAID AS FURNISHED EXCAVATION - 20400800)
- (11) STEEL PLATE BEAM GUARDRAIL, TYPE A, 6' POSTS (63000001)
- (12) PIPE UNDERDRAIN WITH FILTER FABRIC ENVELOPE, 4" (60107600)
- (13) POROUS GRANULAR EMBANKMENT, SUBGRADE (20700420)
- (14) PARAPET (SEE STRUCTURAL PLANS)
- (15) STRIP REFLECTIVE CRACK CONTROL TREATMENT (44300200)
- (16) LEVELING BINDER (MACHINE METHOD), N50 (40600625)
- (17) AGGREGATE WEDGE SHOULDER, TYPE B (48102100)

FILE NAME: P:\CBBEL\WEST Projects\22881\98-9892 Bolcum PHIL\Civil\Drawings\TYPICAL.dwg

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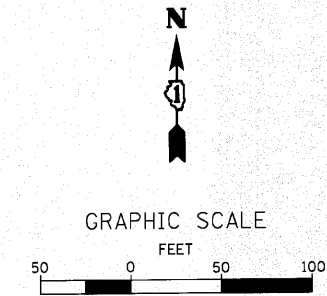
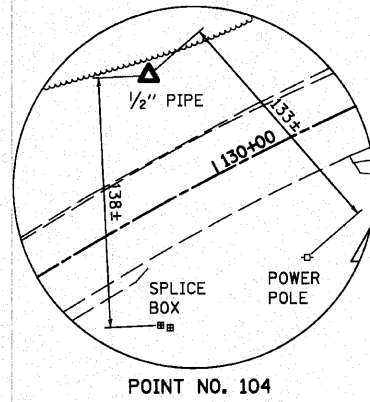
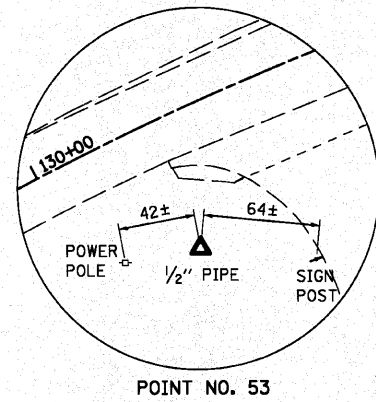
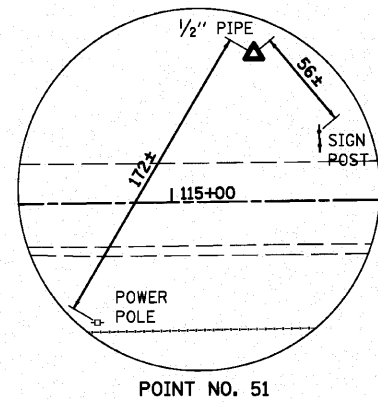
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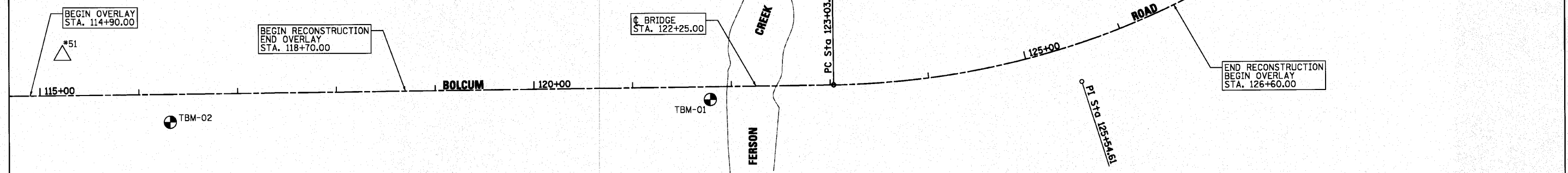
<b>TYPICAL SECTIONS PROPOSED</b>	
SCALE:	SHEET NO. 11 OF 73 SHEETS STA. TO STA.

F.A.U. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
2332	03-14185-02-BR	KANE	73	11
FED. ROAD DIST. NO. 1 [ILLINOIS] FED. AID PROJECT				

**CONTRACT NO. 63521**



EXIST./PROP. CURVE  
 PI STA. = 125+54.61  
 $\Delta = 34^\circ 05' 52''$  (LT)  
 $D = 6^\circ 59' 56''$   
 $R = 818.64'$   
 $T = 251.05'$   
 $L = 487.19'$   
 $E = 37.63'$   
 $e = 8\%$   
 $T.R. = 48'$   
 $S.E. RUN = 192'$   
 $P.C. STA. = 123+03.56$   
 $P.T. STA. = 127+90.75$



**DATUM**  
 HORIZONTAL: NAD 83  
 VERTICAL: NAVD 29

**LEGEND**  
 = TEMPORARY BENCHMARK LOCATION  
 = HORIZONTAL CONTROL POINT LOCATION

CONTROL POINTS COORDINATE TABLE				
POINT NO.	NORTHING	EASTING	STATION	OFFSET
51	1,926,467.908	976,995.117	115+23.25	40.76' LT
53	1,926,675.358	978,454.026	130+32.58	37.37' RT
104	1,926,721.856	978,389.566	129+95.61	33.06' LT

TBM	ELEVATION	DESCRIPTION
01	753.96	CHISEL 'X' ON THE SOUTHWESTERLY END OF SOUTH CONCRETE CURB OF BOLCUM ROAD BRIDGE OVER FERSON CREEK.
02	749.97	POINT LOCATED ON TOP OF THE SOUTHERLY END OF THE WESTERLY CULVERT PIPE UNDER BOLCUM ROAD, APPROXIMATELY 547 FEET WEST OF BOLCUM ROAD BRIDGE OVER FERSON CREEK.

FILE NAME = P:\CIBBEL\WEST Projects\20891\gpr-0802 Bolcum PHOTOC\1\0gpr\SHA\TAB\_01.dgn

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**STATE OF ILLINOIS  
 DEPARTMENT OF TRANSPORTATION**

**ALIGNMENT, TIES  
 & BENCHMARKS**

SCALE: SHEET NO. 12 OF 73 SHEETS STA. 118+70 TO STA. 126+60

F.A.U. RT# 2332	SECTION 03-14185-02-BR	COUNTY KANE	TOTAL SHEETS 73	SHEET NO. 12
FED. ROAD DIST. NO. 1 ILLINOIS FED. AID PROJECT				

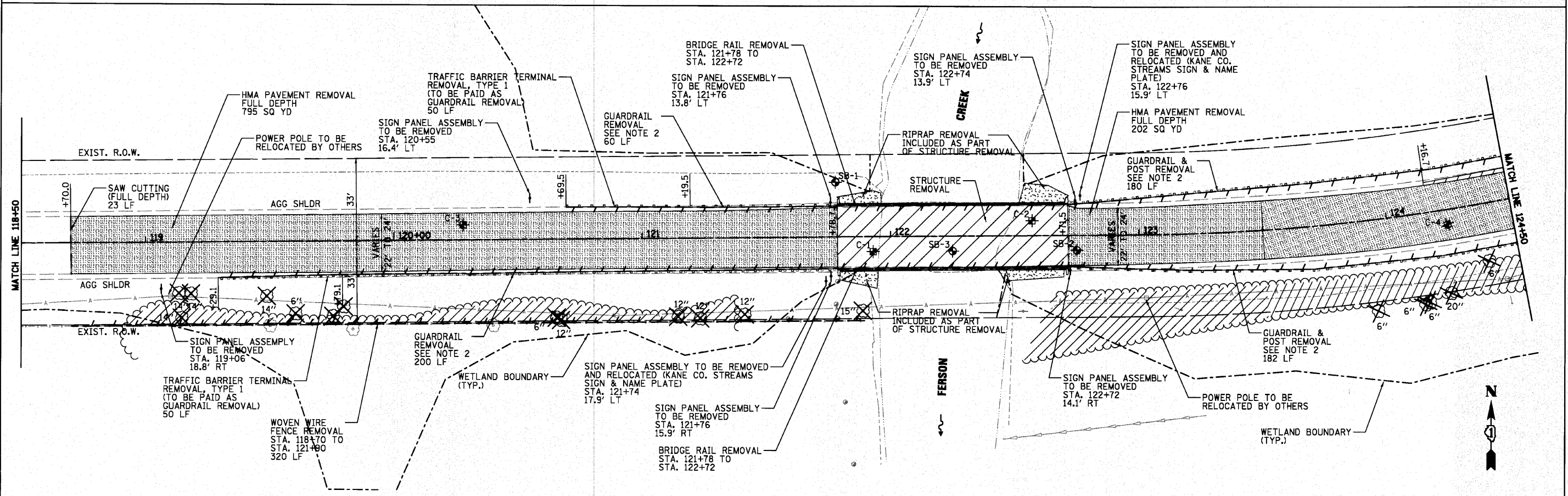
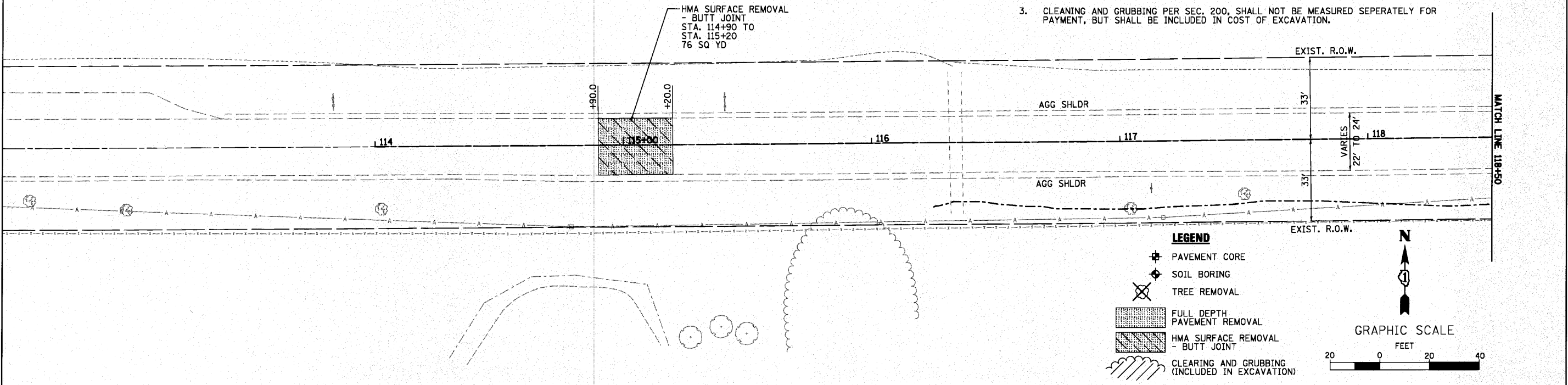
**CONTRACT NO. 63521**





**NOTES:**

1. ALL REMOVED SIGN PANELS SHALL REMAIN THE PROPERTY OF THE ST. CHARLES TOWNSHIP. ONCE PANELS HAVE BEEN REMOVED THE CONTRACTOR WILL RETURN THEM TO A LOCATION SPECIFIED BY THE TOWNSHIP.
2. ALL GUARDRAIL, POSTS AND TERMINAL SECTIONS SHALL BE REMOVED AND SALVAGED. ALL MATERIALS SHALL BE RETURNED TO A LOCATION SPECIFIED BY ST. CHARLES TOWNSHIP. ANY MATERIAL DAMAGED BY THE CONTRACTOR SHALL BE REPLACED AT CONTRACTORS' EXPENSE.
3. CLEANING AND GRUBBING PER SEC. 200, SHALL NOT BE MEASURED SEPERATELY FOR PAYMENT, BUT SHALL BE INCLUDED IN COST OF EXCAVATION.



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**STATE OF ILLINOIS  
DEPARTMENT OF TRANSPORTATION**

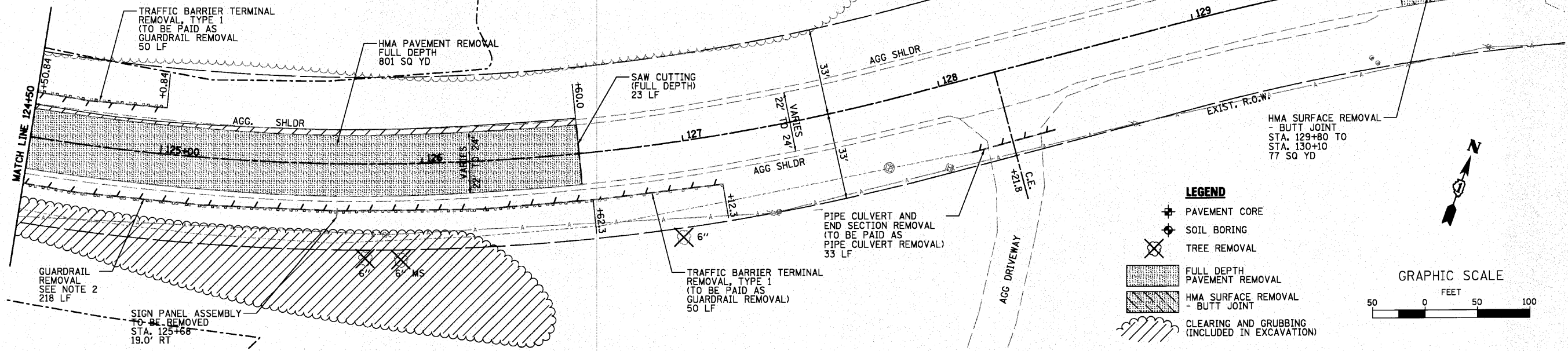
**EXISTING CONDITIONS & REMOVAL PLAN**

SCALE: SHEET NO. 14 OF 73 SHEETS STA. 118+70 TO STA. 127+12

F.A.U. RTE. 2332	SECTION 03-14185-02-BR	COUNTY KANE	TOTAL SHEETS 73	SHEET NO. 14
CONTRACT NO. 63521				
FED. ROAD DIST. NO. 1 ILLINOIS FED. AID PROJECT				

**NOTES:**

1. ALL REMOVED SIGN PANELS SHALL REMAIN THE PROPERTY OF THE ST. CHARLES TOWNSHIP. ONCE PANELS HAVE BEEN REMOVED THE CONTRACTOR WILL RETURN THEM TO A LOCATION SPECIFIED BY THE TOWNSHIP.
2. ALL GUARDRAIL, POSTS AND TERMINAL SECTIONS SHALL BE REMOVED AND SALVAGED. ALL MATERIALS SHALL BE RETURNED TO A LOCATION SPECIFIED BY ST. CHARLES TOWNSHIP. ANY MATERIAL DAMAGED BY THE CONTRACTOR SHALL BE REPLACED AT CONTRACTORS EXPENSE.
3. CLEANING AND GRUBBING PER SEC. 200, SHALL NOT BE MEASURED SEPERATELY FOR PAYMENT, BUT SHALL BE INCLUDED IN COST OF EXCAVATION.



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**STATE OF ILLINOIS  
DEPARTMENT OF TRANSPORTATION**

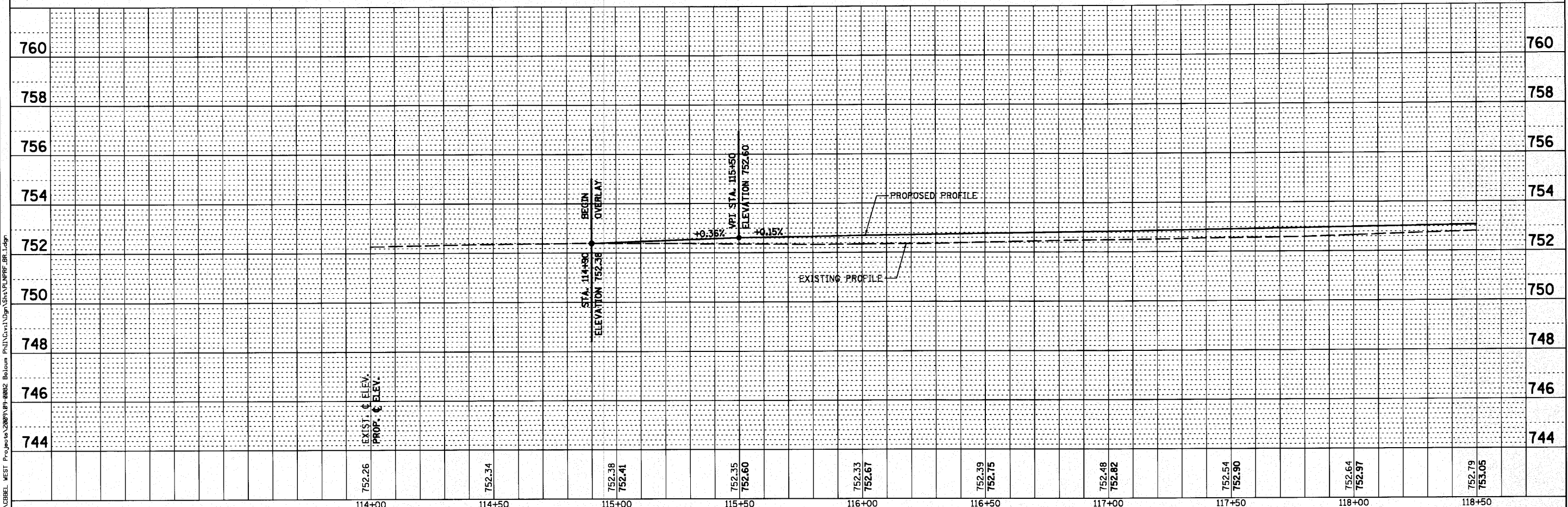
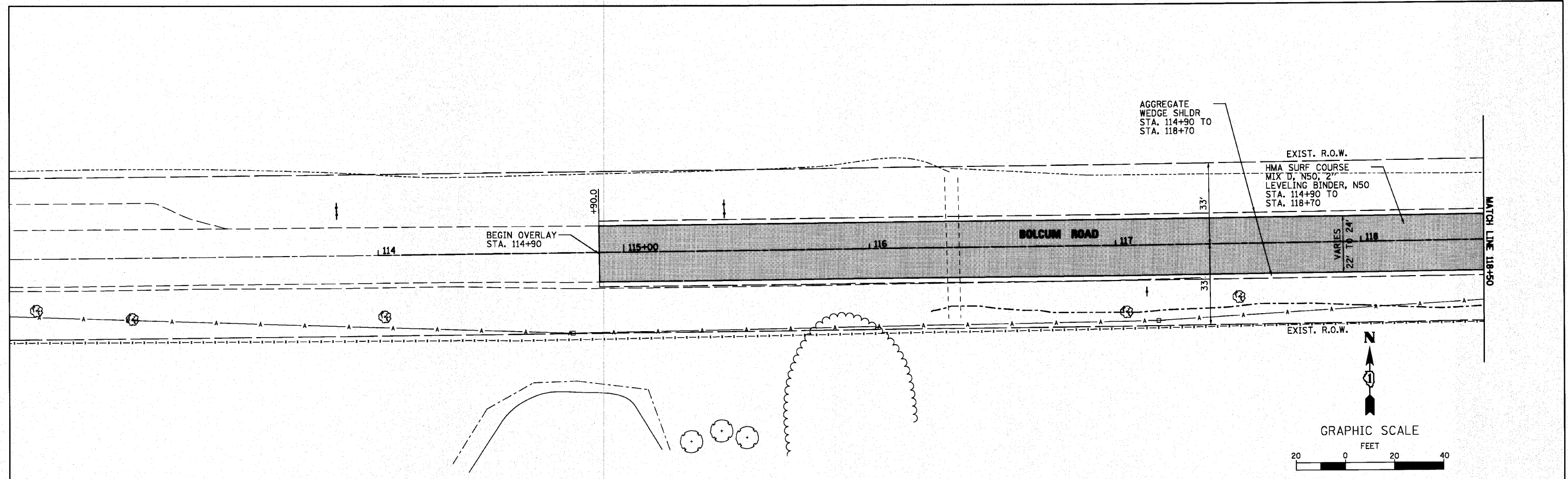
**EXISTING CONDITIONS  
& REMOVAL PLAN**

SCALE: SHEET NO. 15 OF 73 SHEETS STA. TO STA.

F.A.U. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
2332	03-14185-02-BR	KANE	73	15
FED. ROAD DIST. NO. 1 ILLINOIS FED. AID PROJECT				
<b>CONTRACT NO. 63521</b>				

BY: \_\_\_\_\_ DATE: \_\_\_\_\_  
 PLAN  
 SURVEYED \_\_\_\_\_  
 ALIGNED \_\_\_\_\_  
 CHECKED \_\_\_\_\_  
 RT. OF WAY CHECKED \_\_\_\_\_  
 NO. \_\_\_\_\_  
 FILE NAME \_\_\_\_\_

BY: \_\_\_\_\_ DATE: \_\_\_\_\_  
 PROFILE  
 SURVEYED \_\_\_\_\_  
 GRADE \_\_\_\_\_  
 CHECKED \_\_\_\_\_  
 RT. OF WAY CHECKED \_\_\_\_\_  
 NO. \_\_\_\_\_  
 FILE NAME \_\_\_\_\_



114+00	114+50	115+00	115+50	116+00	116+50	117+00	117+50	118+00	118+50
752.26	752.34	752.38 752.41	752.35 752.60	752.33 752.67	752.39 752.75	752.48 752.82	752.54 752.90	752.64 752.97	752.79 753.05

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**STATE OF ILLINOIS  
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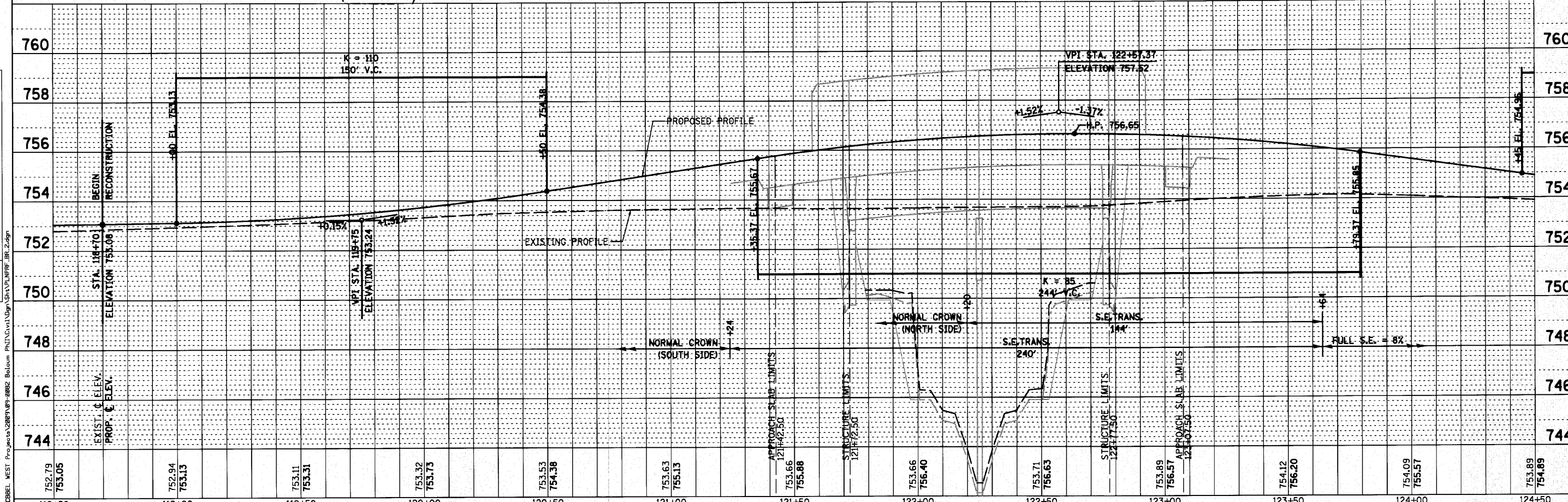
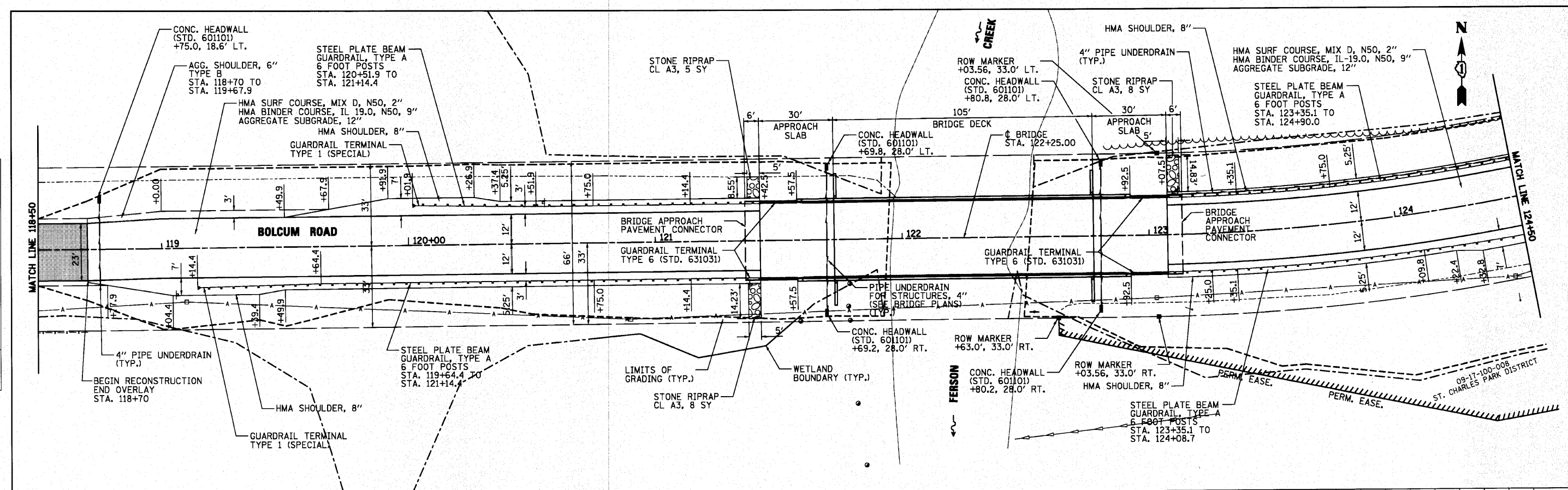
**PLAN & PROFILE**  
 SCALE: SHEET NO. 16 OF 73 SHEETS STA. 118+70 TO STA. 123+50

F.A.U. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
2332	03-14185-02-BR	KANE	73	16
CONTRACT NO. 63521				
FED. ROAD DIST. NO. 1 ILLINOIS FED. AID PROJECT				



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REVISIONS	
NO.	
DESCRIPTION	



752.79 753.05	752.94 753.13	753.11 753.31	753.32 753.73	753.53 754.38	753.63 755.13	753.66 755.88	753.66 756.40	753.71 756.63	753.89 756.57	754.12 756.20	754.09 755.57	753.89 754.89
118+50	119+00	119+50	120+00	120+50	121+00	121+50	122+00	122+50	123+00	123+50	124+00	124+50

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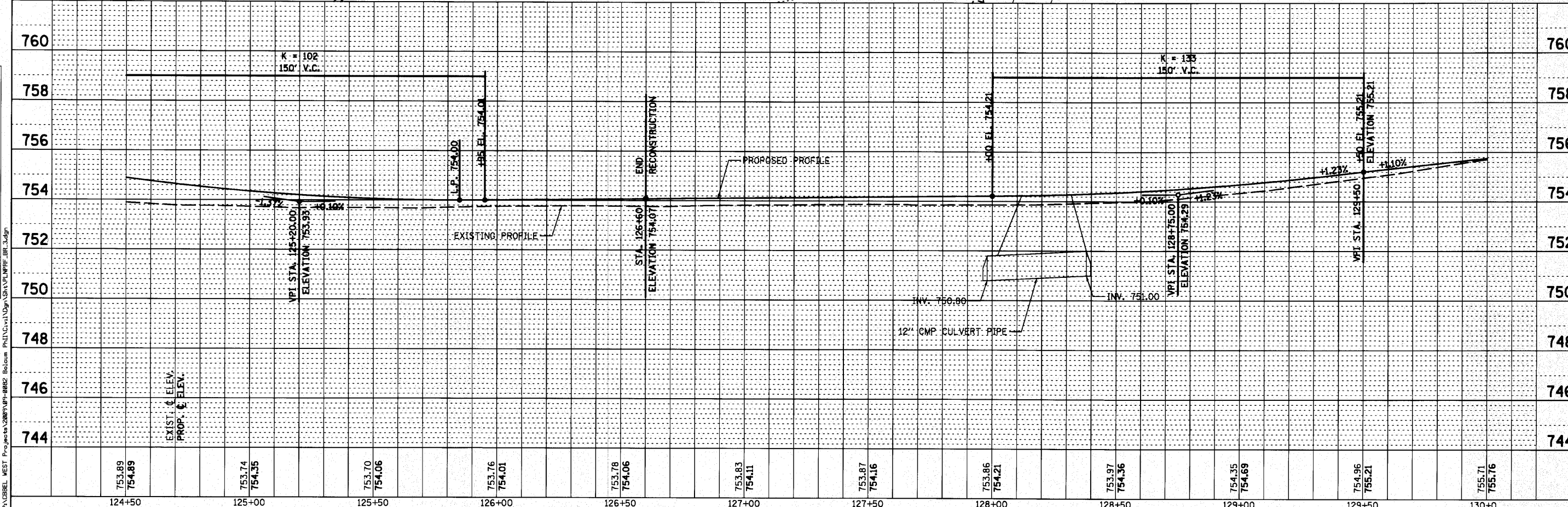
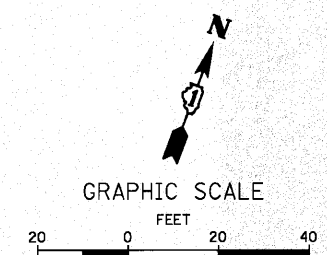
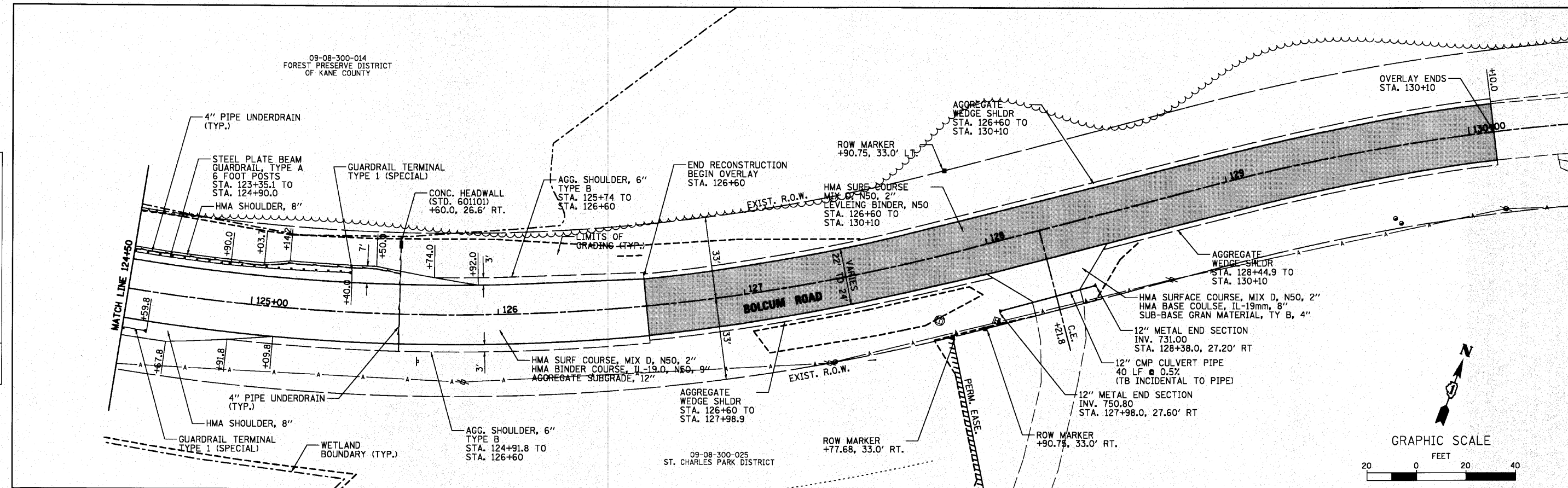
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<b>PLAN &amp; PROFILE</b>	
SCALE:	SHEET NO. 17 OF 73 SHEETS STA. 123+50 TO STA. 126+60

F.A.U. R.T.E. 2332	SECTION 03-14185-02-BR	COUNTY KANE	TOTAL SHEETS 73	SHEET NO. 17
FED. ROAD DIST. NO. 1 [ILLINOIS] FED. AID PROJECT			CONTRACT NO. 63521	

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NOTE BOOK	
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NOTED	
CHECKED	
NO.	
PROFILE	
NOTE BOOK	
NO.	
STRUCTURE NOTATION	
NO.	



753.89	754.89	753.74	754.35	753.70	754.06	753.76	754.01	753.78	754.06	753.83	754.11	753.87	754.16	753.86	754.21	753.97	754.36	754.35	754.69	754.96	755.21	755.71	755.76
124+50		125+00		125+50		126+00		126+50		127+00		127+50		128+00		128+50		129+00		129+50		130+00	

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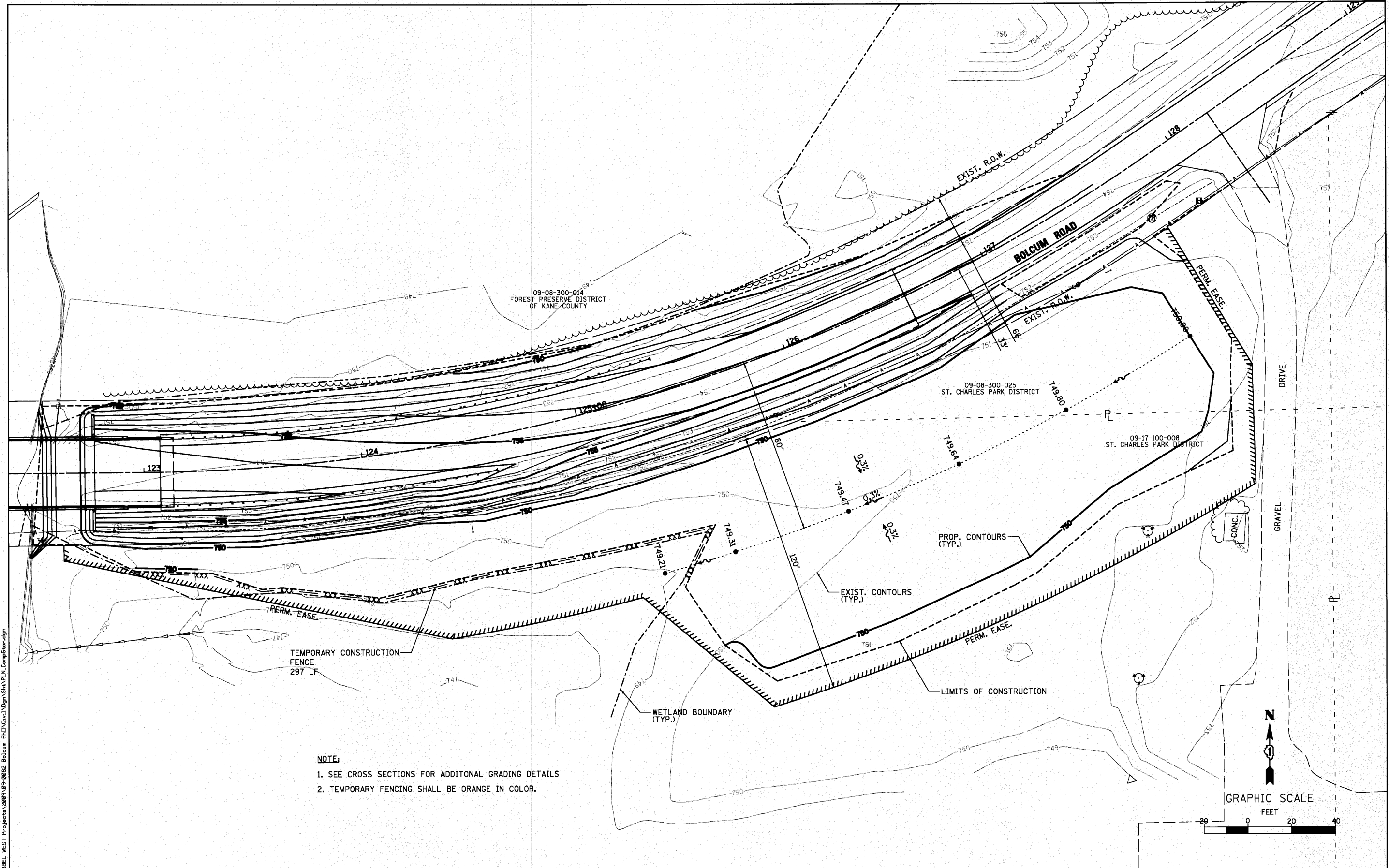
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DEPARTMENT OF TRANSPORTATION**

<b>PLAN &amp; PROFILE</b>	
SCALE:	SHEET NO. 18 OF 73 SHEETS STA. TO STA.

F.A.U. RTE. 2332	SECTION 03-14185-02-BR	COUNTY KANE	TOTAL SHEETS 73	SHEET NO. 18
CONTRACT NO. 63521				
FED. ROAD DIST. NO. 1 ILLINOIS FED. AID PROJECT				

FILE NAME = P:\CIBBEL WEST Projects\2009\09-0882 Bolcum PH1\Civil\Drawings\PLAN\PRF\_BR\_3.dgn



**NOTE:**  
 1. SEE CROSS SECTIONS FOR ADDITIONAL GRADING DETAILS  
 2. TEMPORARY FENCING SHALL BE ORANGE IN COLOR.

FILE NAME = P:\CBBEL - WEST Projects\2009\09-0802 - Bolcum - PLAN\CD\Drawn\SHA\PLN\_K\_Comp500.dwg

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PLOT DATE = 10/21/2010	CHECKED -	REVISED -
	DATE - 10/22/10	REVISED -

**STATE OF ILLINOIS  
 DEPARTMENT OF TRANSPORTATION**

**COMPENSATORY STORAGE  
 GRADING PLAN**

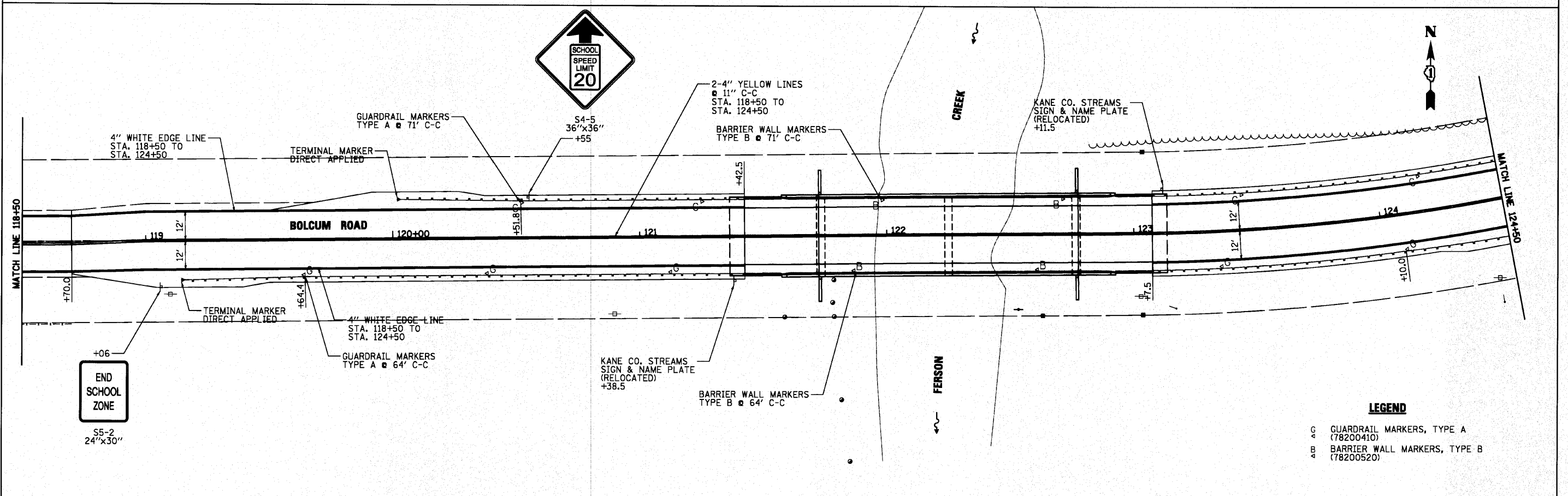
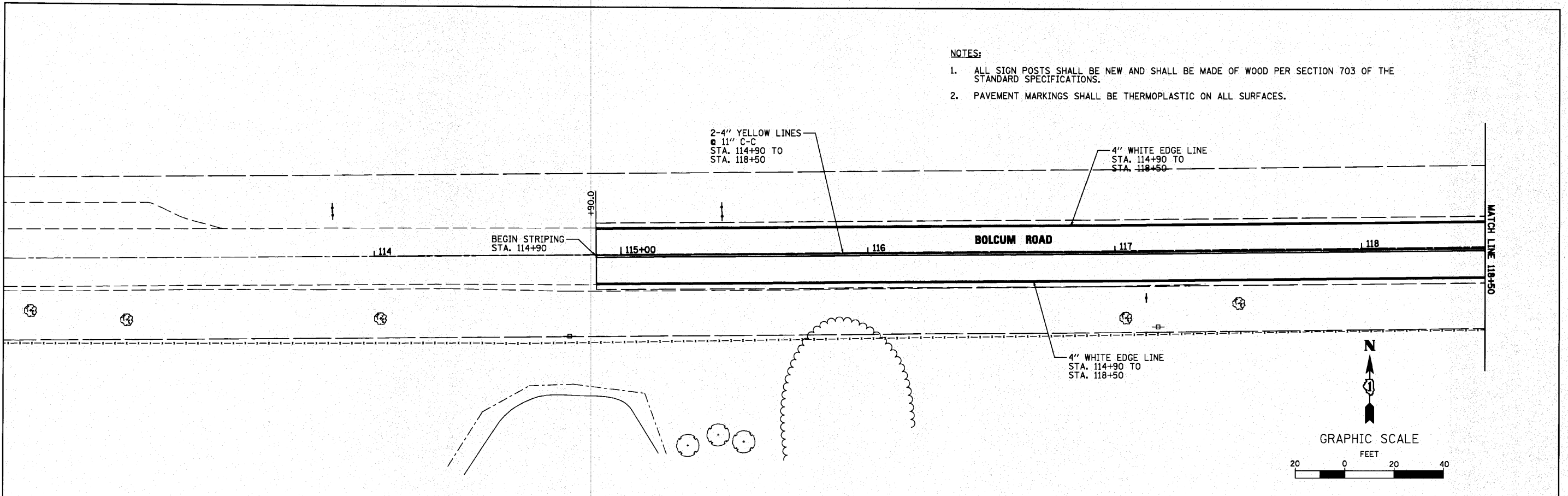
SCALE: SHEET NO. 19 OF 73 SHEETS STA. TO STA.

F.A.U. RTE. 2332	SECTION 03-14185-02-BR	COUNTY KANE	TOTAL SHEETS 73	SHEET NO. 19
CONTRACT NO. 63521				
FED. ROAD DIST. NO. 1 ILLINOIS FED. AID PROJECT				



**NOTES:**

1. ALL SIGN POSTS SHALL BE NEW AND SHALL BE MADE OF WOOD PER SECTION 703 OF THE STANDARD SPECIFICATIONS.
2. PAVEMENT MARKINGS SHALL BE THERMOPLASTIC ON ALL SURFACES.



**LEGEND**

A	GUARDRAIL MARKERS, TYPE A (78200410)
B	BARRIER WALL MARKERS, TYPE B (78200520)

FILE NAME = P:\CIBEL\WEST\Projects\2009\10\08\BOLCUM\_Plan\Drawings\Plan\PK\_01.dgn

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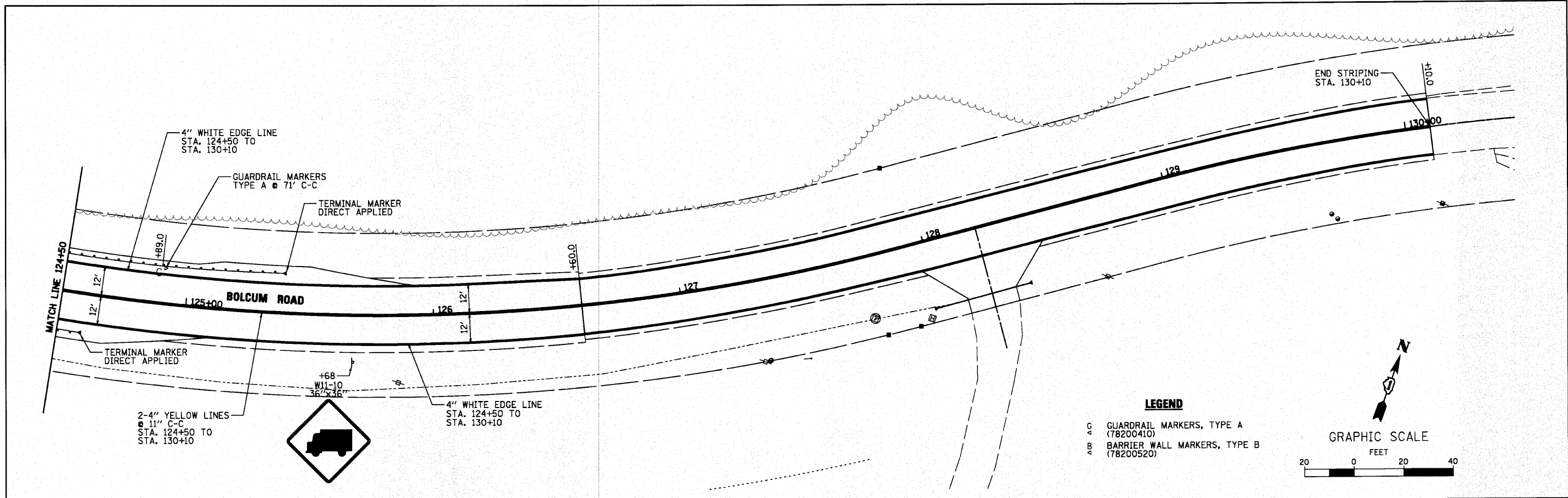
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**STATE OF ILLINOIS  
 DEPARTMENT OF TRANSPORTATION**

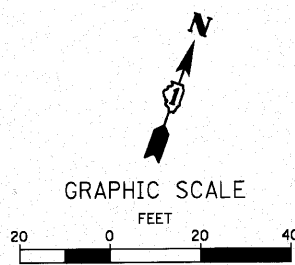
<b>PAVEMENT MARKING &amp; SIGNING PLAN</b>	
SCALE:	SHEET NO. 20 OF 73 SHEETS STA. TO STA.

F.A.U. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
2332	03-14185-02-BR	KANE	73	20
CONTRACT NO. 63521				
FED. ROAD DIST. NO. 1 ILLINOIS FED. AID PROJECT				





- LEGEND**
- C GUARDRAIL MARKERS, TYPE A (78200410)
  - B BARRIER WALL MARKERS, TYPE B (78200520)



FILE NAME = P:\CIBEL\WEST Projects\2009\09-9882 Bolcum Plan\Drawings\Sign\PM\B2.dgn

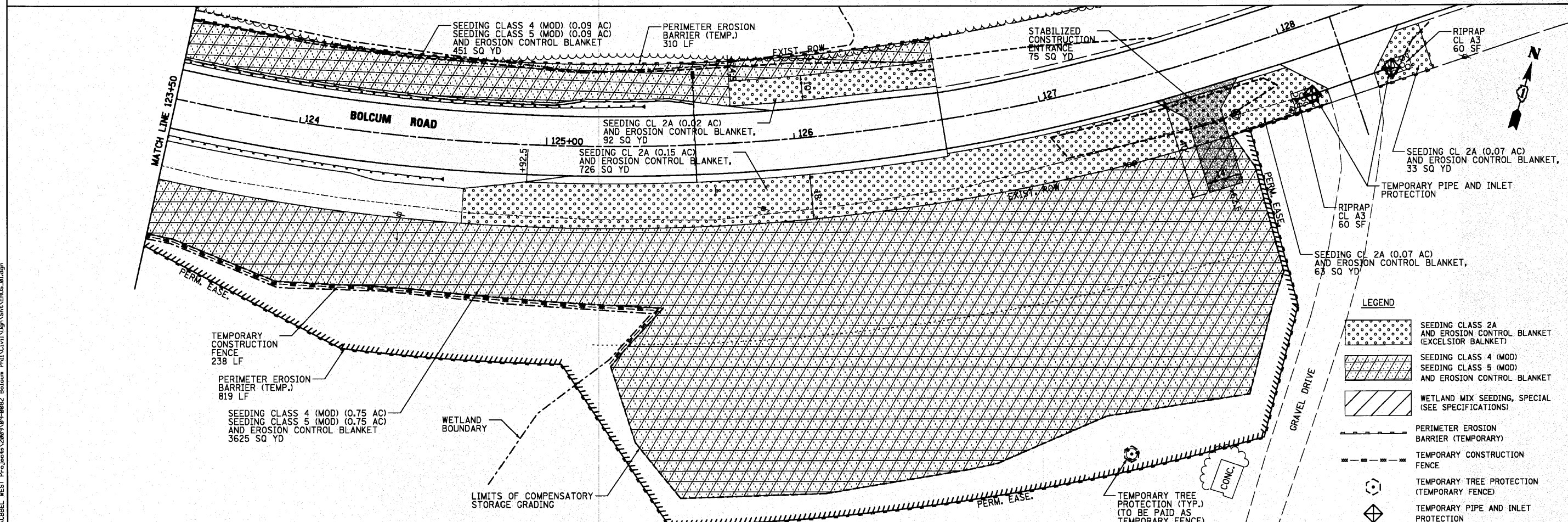
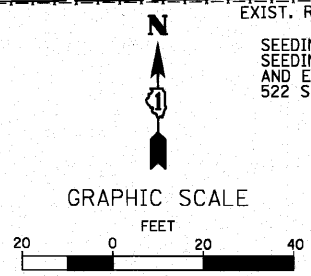
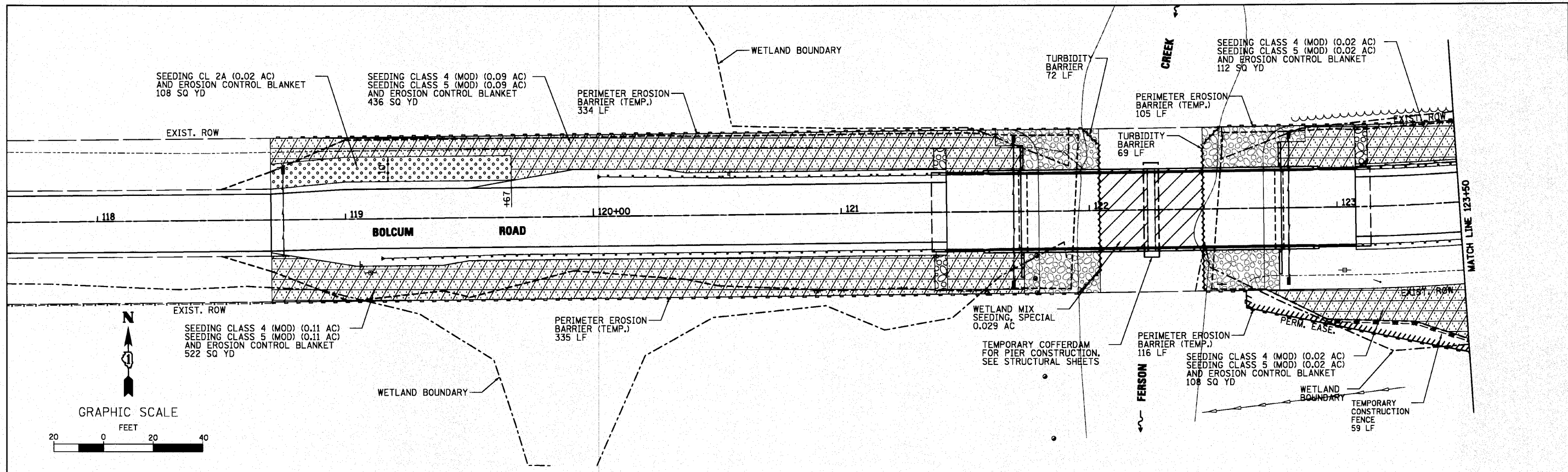
**WILLS BURKE KELSEY ASSOCIATES LTD.**  
 116 West Main Street, Suite 201  
 St. Charles, Illinois 60174

USER NAME = *USER*	DESIGNED -	REVISED -
PLOT SCALE =	DRAWN -	REVISED -
PLOT DATE = 10/21/2010	CHECKED -	REVISED -
	DATE - 10/22/10	REVISED -

**STATE OF ILLINOIS  
 DEPARTMENT OF TRANSPORTATION**

<b>PAVEMENT MARKING &amp; SIGNING PLAN</b>			
SCALE:	SHEET NO. 21 OF 73 SHEETS	STA.	TO STA.

F.A.I. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
2332	03-14185-02-BR	KANE	73	21
CONTRACT NO. 63521				
FED. ROAD DIST. NO. 1   ILLINOIS   FED. AID PROJECT				



**LEGEND**

	SEEDING CLASS 2A AND EROSION CONTROL BLANKET (EXCELSIOR BALKNET)
	SEEDING CLASS 4 (MOD) SEEDING CLASS 5 (MOD) AND EROSION CONTROL BLANKET
	WETLAND MIX SEEDING, SPECIAL (SEE SPECIFICATIONS)
	PERIMETER EROSION BARRIER (TEMPORARY)
	TEMPORARY CONSTRUCTION FENCE
	TEMPORARY TREE PROTECTION (TEMPORARY FENCE)
	TEMPORARY PIPE AND INLET PROTECTION

FILE NAME = P:\CIBEL\WEST Projects\2009\09-0602 Bolcum Perim.Civil\09-0602-EROS.DWG

**WILLS BURKE KELSEY ASSOCIATES LTD.**  
116 West Main Street, Suite 201  
St. Charles, Illinois 60174

USER NAME = #USER#	DESIGNED -	REVISED -
PLOT SCALE =	DRAWN -	REVISED -
PLOT DATE = 10/21/2010	CHECKED -	REVISED -
	DATE - 10/22/10	REVISED -

**STATE OF ILLINOIS**  
**DEPARTMENT OF TRANSPORTATION**

**EROSION CONTROL PLAN**

SCALE: SHEET NO. 22 OF 73 SHEETS STA. TO STA.

F.A.U. R.T.E.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
2332	03-14185-02-BR	KANE	73	22
FED. ROAD DIST. NO. 1 [ILLINOIS] FED. AID PROJECT			CONTRACT NO. 63521	

**EROSION CONTROL INSPECTION**

ALL EROSION CONTROL MEASURES MUST BE INSPECTED WEEKLY AND AFTER EACH 1/2" RAIN EVENT.

**WINTER SHUT DOWN**

A WINTER SHUT DOWN IS NOT ANTICIPATED FOR THIS PROJECT, BUT IN THE EVENT THAT UNAVOIDABLE CIRCUMSTANCE REQUIRE A WINTER SHUT DOWN, THE CONDITION OF THE CONSTRUCTION SITE FOR WINTER SHUTDOWN SHALL BE ADDRESSED EARLY IN THE FALL GROWING SEASON SO THAT SLOPES AND OTHER BARE EARTH AREAS MAY BE STABILIZED WITH TEMPORARY AND/OR PERMANENT VEGETATIVE COVER FOR PROPER EROSION AND SEDIMENT CONTROL. ALL OPEN AREAS THAT ARE TO REMAIN IDLE THROUGHOUT THE WINTER SHALL RECEIVE TEMPORARY EROSION CONTROL MEASURES INCLUDING TEMPORARY SEEDING, MULCHING AND/OR EROSION CONTROL BLANKET PRIOR TO THE END OF THE FALL GROWING SEASON. THE AREAS TO BE WORKED BEYOND THE END OF THE GROWING SEASON MUST INCORPORATE SOIL STABILIZATION MEASURES THAT DO NOT RELY ON VEGETATIVE COVER SUCH AS EROSION CONTROL BLANKET AND HEAVY MULCHING.

**TEMPORARY DITCH CHECKS**

THE PLANS HAVE A PLAN ALLOWANCE FOR FIVE (5) TEMPORARY DITCH CHECKS. THE DITCH CHECKS WILL BE REQUIRED AT THOSE LOCATIONS WHERE THE CONTRACTORS OPERATIONS REQUIRE TEMPORARY DITCHES OR SWALES. THE EXACT LOCATION WILL BE COORDINATED IN THE FIELD WITH THE ENGINEER.

**PROTECTING STOCK PILE AREAS**

CONTRACTOR MAY OPT TO STOCK PILES MATERIALS. STAGING OF THE PROJECT IS AT HIS DISCRETION AND COORDINATION OF STOCK PILES WILL BE WITH RE, TOWNSHIP AND KANE-DUPAGE. STOCKPILES OF SOIL AND OTHER BUILDING MATERIALS TO REMAIN IN PLACE MORE THAN THREE (3) DAYS SHALL BE FURNISHED WITH EROSION AND SEDIMENT CONTROL MEASURES (I.E. PERIMETER SILT FENCE). STOCKPILES, NOT BEING ACTIVITY WORKED AND TO REMAIN IN PLACE FOR 14 DAYS OR MORE SHALL RECEIVE TEMPORARY SEEDING.

**KEEPING PAVEMENTS CLEAN**

THE CONTRACTOR WILL KEEP ALL PERMANENT PAVEMENT SURFACES CLEAN OF DIRT OR CONSTRUCTION DEBRIS. THE PAVEMENT SHALL BE CLEANED AT THE END OF EACH DAYS OPERATION OR MORE FREQUENTLY AS REQUIRED BY THE ENGINEER IF THE DEBRIS IS DEEMED TO BE A HAZARD TO THE MOTORING PUBLIC.

**GENERAL NOTES**

- A) UNLESS OTHERWISE INDICATED, ALL VEGETATIVE AND STRUCTURAL EROSION AND SEDIMENT CONTROL PRACTICES WILL BE CONSTRUCTED ACCORDING TO MINIMUM STANDARDS AND SPECIFICATIONS IN THE ILLINOIS URBAN MANUAL REVISED FEBRUARY 2002.
- B) THE KANE-DUPAGE SOIL AND WATER CONSERVATION DISTRICT (KDSWCD) MUST BE NOTIFIED ONE WEEK PRIOR TO THE PRE-CONSTRUCTION CONFERENCE, ONE WEEK PRIOR TO THE COMMENCEMENT OF LAND DISTURBING ACTIVITIES, AND ONE WEEK PRIOR TO THE FINAL INSPECTION.
- C) A COPY OF THE APPROVED EROSION AND SEDIMENT CONTROL PLAN SHALL BE MAINTAINED ON THE SITE AT ALL TIMES.
- D) PRIOR TO COMMENCING LAND-DISTURBING ACTIVITIES IN AREAS OTHER THAN INDICATED ON THESE PLANS (INCLUDING BUT NOT LIMITED TO, ADDITIONAL PHASES OF DEVELOPMENT AND OFF-SITE BORROW OR WASTE AREAS) A SUPPLEMENTARY EROSION CONTROL PLAN SHALL BE SUBMITTED TO THE OWNER FOR REVIEW BY THE KDSWCD.
- E) THE CONTRACTOR IS RESPONSIBLE FOR INSTALLATION OF ANY ADDITIONAL EROSION CONTROL MEASURES NECESSARY TO PREVENT EROSION AND SEDIMENTATION AS DETERMINED BY THE KDSWCD.
- F) DURING DEWATERING OPERATIONS, WATER WILL BE PUMPED INTO SEDIMENT BASINS OR SILT TRAPS. DEWATERING DIRECTLY INTO FIELD TILES OR STORMWATER STRUCTURES IS PROHIBITED.
- G) IT IS THE RESPONSIBILITY OF THE LANDOWNER AND/OR GENERAL CONTRACTOR TO INFORM ANY SUB-CONTRACTORS WHO MAY PERFORM WORK ON THIS PROJECT, OF THE REQUIREMENTS IN IMPLEMENTING AND MAINTAINING THESE EROSION CONTROL PLANS AND THE NATIONAL POLLUTANT DISCHARGE ELIMINATION SYSTEM (NPDES) PERMIT REQUIREMENTS SET FORTH BY THE ILLINOIS EPA.

**CONSTRUCTION SEQUENCE NOTES**

- A) CONSTRUCTION OF A PIER, CREEK EBANKMENT AND RIP RAP ARE ANTICIPATED TO REQUIRE WORK WITHIN THE CREEK, WORK MUST BE TIMED TO TAKE PLACE DURING LOW OR NO-FLOW CONDITIONS.
- B) DURING CONSTRUCTION OF THE PIER, CONCENTRATED FLOW MUST BE ISOLATED FROM THE WORK AREA USING A NON-ERODIBLE COFFERDAM (STEEL SHEETS, AQUA BARRIERS, ETC.). EXACT MEANS AND METHODS SHOULD BE DISCUSSED DURING A SCHEDULED PRE-CONSTRUCTION MEETING.
- C) BYPASS IS NOT ANTICIPATED FOR THIS PROJECT. HOWEVER, IF BYPASS IS NECESSARY, THE INLET OF THE HOSE SHALL BE PLACED IN A SUMP PIT AND THE OUTLET PLACED ON A NON-ERODIBLE, ENERGY DISSIPATING SURFACE PRIOR TO REJOINING THE CREEK FLOW.
- D) IF DEWATERING THE CONSTRUCTION AREA IS NECESSARY, ALL WATERS SHALL BE FILTERED BY USING FILTER BAGS OR AN ALTERNATIVE MEASURE. WATER MUST HAVE SEDIMENT REMOVED BEFORE BEING ALLOWED TO RETURN TO THE ORIGINAL CREEK.
- E) THE SIDE SLOPES MUST BE RESEEDED AND STABILIZED WITH AN APPROPRIATE EROSION CONTROL BLANKET PRIOR TO ACCEPTING FLOWS. THE BOTTOM OF THE SWALE MUST BE BROUGHT BACK TO ITS ORIGINAL GRADE AND STABLE ENOUGH TO ACCEPT FLOWS.

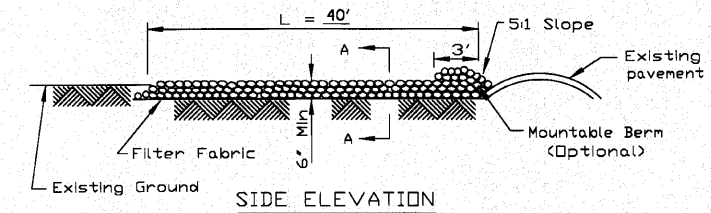
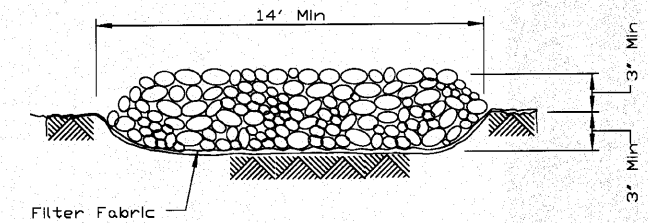
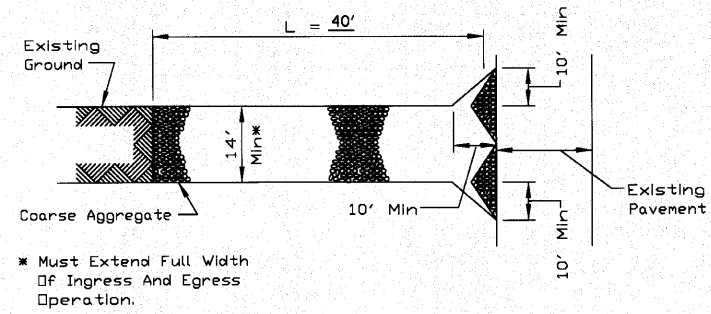
**DEWATERING - BASIS OF PAYMENT**

DEWATERING FOR ALL CONSTRUCTION OPERATIONS WILL NOT BE MEASURED SEPERATELY FOR PAYMENT BUT SHALL BE INCLUDED IN THE COST OF CONCRETE STRCUTURES. DEWATERING WILL INCLUDE MEANS, METHODS AND ALL MATERIALS TO DEWATER AND TO PROVIDE FILTRATION OF WATERS BEFORE RE-ENTERING THE CREEK.

STABILIZATION TYPE	JAN.	FEB.	MAR.	APR.	MAY	JUNE	JULY	AUG.	SEPT.	OCT.	NOV.	DEC.
PERMANENT SEEDING						•	•	A				
DORMANT SEEDING	B										B	
TEMPORARY SEEDING			C									
EROSION CONTROL BLANKET								D				

- A. CLASS 2A  
CLASS 4 (MODIFIED)  
CLASS 5 (MODIFIED)
- B. INCREASE SEEDING RATES BY 25% WHEN DORANT SEEDING (NOT ANTICIPATED)
- C. TEMPORARY SEEDING (PERENIAL RYE GRASS, SPRING OATS)
- D. EROSION CONTROL BLANKET (EXCELSIOR) (PERMANENT SEED AREAS ONLY)

NOTE: IRRIGATION MAY BE NEEDED DURING JUNE AND JULY  
SEEDING TO BE COMPLETED PER REQUIREMENTS OF SECTION 250 OF THE IDOT STANDARD SPECIFICATIONS FOR ROAD AND BRIDGES.



- NOTES:
- FILTER FABRIC SHALL MEE THE REQUIREMENTS OF SECTION 1080.03 OF THE STANDARD SPECIFICATIONS AND SHALL BE PALCED OVER THE CLEARED SUBGRADE AREA PRIOR TO PLACING THE ROCK.
  - AGGREGATE FILL SHALL MEET ONE OF THE FOLLOWING IDOT COARSE AGGREGATE GRADATIONS, CA-1, CA-2, CA-3 OR CA-4 AND BE PLACED ACCORDING TO SPECIAL PROVISION " STABILIZED CONSTRUCTION ENTRANCE.
  - ANY DRAINAGE FACILITIES REQUIRED BECASUE OF WASHING SHALL BE CONSTRUCTED ACCORDING TO MANUFACTURERS SPECIFICATIONS.
  - IF WASH RACKS ARE USED THEY SHALL BE INSTALLED ACCORDING TO MANUFACTURERS SPECIFICATIONS.

**STABILIZED CONSTRUCTION ENTRANCE PLAN**

FILE NAME = P:\CDBEEL - WEST Projects\2008\148\BIB\BIB.dwg; Plot Date = 10/22/2010

**WBK**  
WILLS BURKE KELSEY ASSOCIATES LTD.  
118 West Main Street, Suite 201  
St. Charles, Illinois 60174

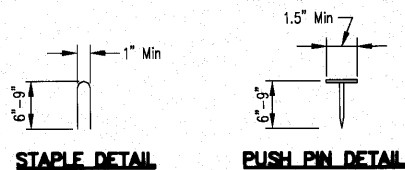
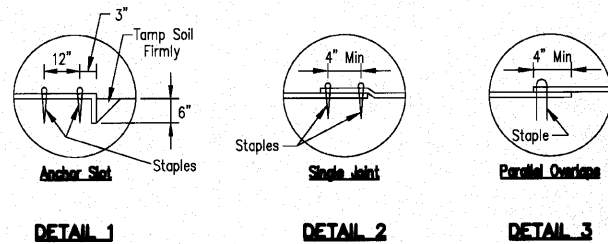
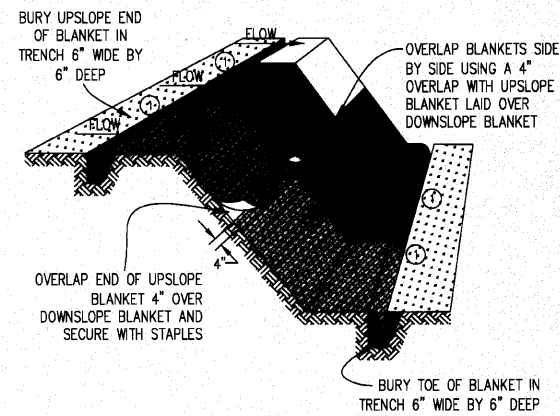
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DRAWN -	CHECKED -	REVISED -
DATE = 10/22/10	DATE - 10/22/10	REVISED -

**STATE OF ILLINOIS  
DEPARTMENT OF TRANSPORTATION**

<b>EROSION CONTROL NOTES &amp; DETAILS</b>	
SCALE:	SHEET NO. 23 OF 73 SHEETS STA. TO STA.

F.A. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
2332	03-14185-02-BR	KANE	73	23
CONTRACT NO. 63521				
FED. ROAD DIST. NO. 1 [ILLINOIS] FED. AID PROJECT				

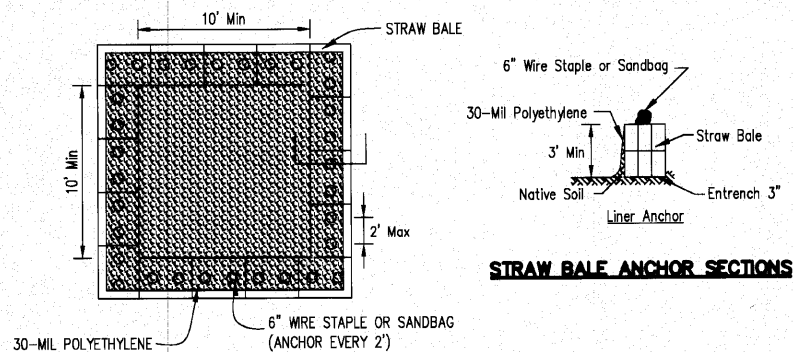




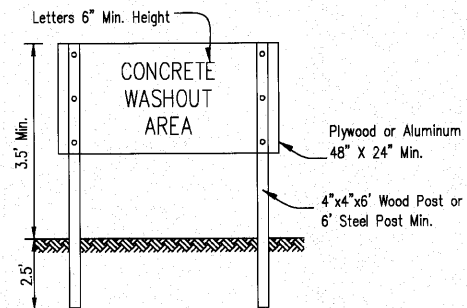
NOTES:

1. STAPLES SHALL BE PLACED IN A DIAMOND PATTERN AT 2 PER S.Y. FOR STITCHED BLANKETS. NON-STICHED SHALL USE 4 STAPLES PER S.Y. OF MATERIAL. THIS EQUATES TO 200 STAPLES WITH STITCHED BLANKET AND 400 STAPLES WITH NON-STICHED BLANKET PER 100 S.Y. OF MATERIAL.
2. STAPLE OR PUSH PIN LENGTHS SHALL BE SELECTED BASED ON SOIL TYPE AND CONDITIONS. (MINIMUM STAPLE LENGTH IS 6")
3. EROSION CONTROL MATERIAL SHALL BE PLACED IN CONTACT WITH THE SOIL OVER A PREPARED SEEDBED.
4. ALL ANCHOR SLOTS SHALL BE STAPLED AT APPROXIMATELY 12" INTERVALS.

**EROSION CONTROL  
BLANKET INSTALLATION DETAILS**



**PLAN VIEW**

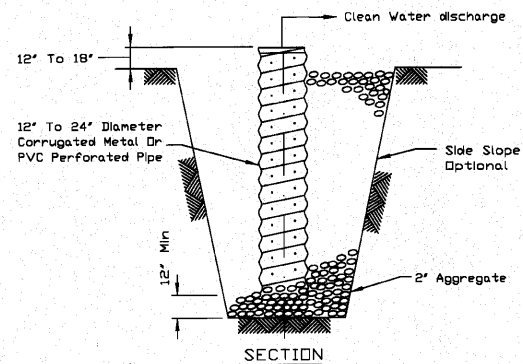


**SIGN DETAIL**

NOTES:

1. MAINTAINING TEMPORARY CONCRETE WASHOUT FACILITIES SHALL INCLUDE REMOVING AND DISPOSING OF HARDENED CONCRETE AND/OR SLURRY AND RETURNING THE FACILITIES TO A FUNCTIONAL CONDITION.
2. FACILITY SHALL BE CLEANED OR RECONSTRUCTED IN A NEW AREA ONCE WASHOUT BECOMES TWO-THIRDS FULL.
3. EACH STRAW BALE IS TO BE STAKED IN PLACE USING (2) 2"x2"x4" WOODEN STAKES.

**TEMPORARY CONCRETE  
WASHOUT FACILITY - STRAW BALE**

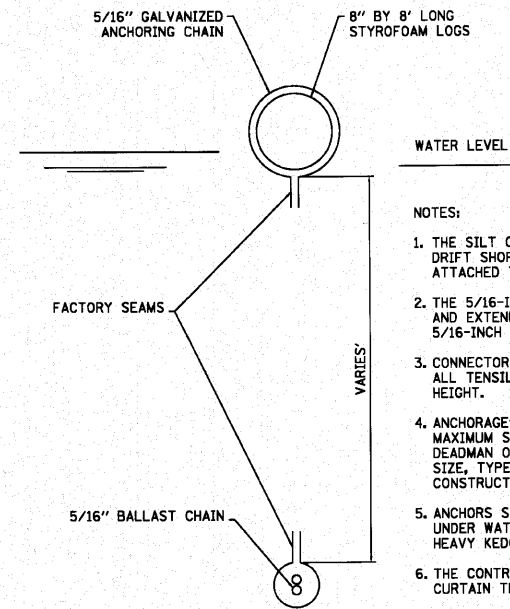


**SECTION**

NOTES:

1. PIT DIMENSIONS ARE OPTIONAL.
2. THE STANDPIPE WILL BE CONSTRUCTED BY PERFORATING A 12"-24" DIAMETER CORRUGATED METAL OR PVC PIPE.
3. A BASE OF 2" AGGREGATED WILL BE PLACED IN THE PIT TO A MINIMUM DEPTH OF 12". AFTER INSTALLING THE STANDPIPE, THE PIT SURROUNDING THE STANDPIPE WILL THEN BE BACKFILLED WITH 2" AGGREGATE.
4. THE STANDPIPE WILL EXTEND 12" TO 18" ABOVE THE LIP OF THE PIT.
5. IF DISCHARGE WILL BE PUMPED DIRECTLY TO A STORM DRAINAGE SYSTEM, THE STANDPIPE WILL BE WRAPPED WITH FILTER FABRIC BEFORE INSTALLATION.
6. IF DESIRED, 1/4"-1/2" HARDWARE CLOTH MAY BE PLACED AROUND THE STANDPIPE PRIOR TO ATTACHING THE FILTER FABRIC. THIS WILL INCREASE THE RATE OF WATER SEEPAGE INTO THE PIPE.

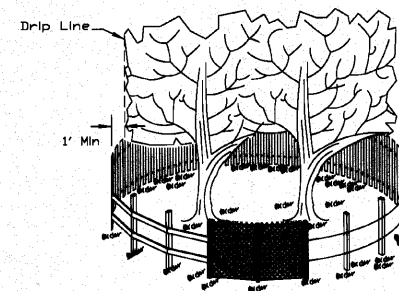
**SUMP PIT PLAN**



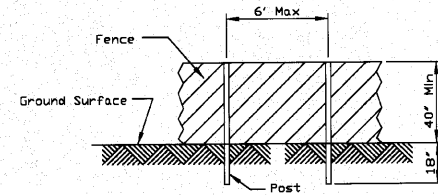
**SECTION  
TRIBIDITY CURTAIN  
(FLOATING SILT CURTAIN)  
N.T.S**

NOTES:

1. THE SILT CURTAIN SHALL BE INSTALLED IN SUCH A MANNER AS TO PREVENT DRIFT SHOREWARD OR DOWNSTREAM. THE FLOATATION LOG SHALL BE SECURELY ATTACHED TO THE FABRIC IN BOTH THE HORIZONTAL AND VERTICAL DIRECTION.
2. THE 5/16-INCH CABLE SHALL BE ATTACHED ABOVE THE FLOATATION MEMBERS AND EXTEND THE ENTIRE LENGTH OF EACH SECTION OF SILT CURTAIN. A 5/16-INCH CHAIN SHALL BE SEALED ON THE LOWER HEM FOR BALLAST.
3. CONNECTORS SHALL JOIN THE MAIN LOAD LINE AND BALLAST CHAIN TO CARRY ALL TENSILE PRESSURE. THE FABRIC SHALL BE JOINTED FOR ITS ENTIRE HEIGHT.
4. ANCHORAGE'S SHALL BE INSTALLED ON BOTH SHORE AND STREAM SIDE TO MAXIMUM STABILITY. SHORE ANCHORS SHALL CONSIST OF A POST WITH DEADMAN OR APPROVED EQUAL. STREAM ANCHORS SHALL BE OF SUFFICIENT SIZE, TYPE AND STRENGTH TO STABILIZE THE BARRIER BEYOND THE CONSTRUCTION AREA.
5. ANCHORS SHALL BE BUOYED TO PREVENT THE SILT CURTAIN FROM BEING PULLED UNDER WATER. DANFORTH-TYPE ANCHORS SHALL BE USED IN SANDY BOTTOM AND HEAVY KEDGE TYPE OR MUSHROOM ANCHORS ON MUD BOTTOMS.
6. THE CONTRACTOR SHALL BE RESPONSIBLE FOR MAINTENANCE OF THE SILT CURTAIN THROUGHOUT CONSTRUCTION OPERATIONS.
7. UPON COMPLETION OF THE WORK, THE CONTRACTOR SHALL REMOVE THE SILT CURTAIN IN A MANNER THAT WILL PREVENT SILTATION OF THE RIVER/CREEK.



**SIDE VIEW**



**POST AND FENCE DETAIL**

NOTES:

1. THE FENCE SHALL BE LOCATED A MINIMUM OF 1 FOOT OUTSIDE THE DRIP LINE OF THE TREE TO BE SAVED AND IN NO CASE CLOSER THAN 5 FEET TO THE TRUNK OF ANY TREE.
2. FENCE POSTS SHALL BE EITHER STANDARD STEEL POSTS OR WOOD POSTS WITH A MINIMUM CROSS SECTIONAL AREA OF 3.0 SQ. IN.
3. THE FENCE MAY BE EITHER 40" HIGH SNOW FENCE, 40" PLASTIC WEB FENCING OR ANY OTHER MATERIAL AS APPROVED BY THE ENGINEER/INSPECTOR.
4. TO BE PAID FOR AS "TEMPORARY FENCE."

**TREE PROTECTION FENCING**

FILE NAME = P:\CBBEL WEST Project\22891\up\0802 Bolsum P\INT\CD\1\0.dgn 10/22/10 10:05:00



USER NAME = *USER*	DESIGNED -	REVISED -
PLOT SCALE =	DRAWN -	REVISED -
PLOT DATE = 10/21/2010	CHECKED -	REVISED -
	DATE - 10/22/10	REVISED -

**STATE OF ILLINOIS  
DEPARTMENT OF TRANSPORTATION**

**EROSION CONTROL  
DETAILS**

SCALE: SHEET NO. 24 OF 73 SHEETS STA. TO STA.

F.A.U. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
2332	03-14185-02-BR	KANE	73	24
CONTRACT NO. 63521				
FED. ROAD DIST. NO. 1 ILLINOIS FED. AID PROJECT				

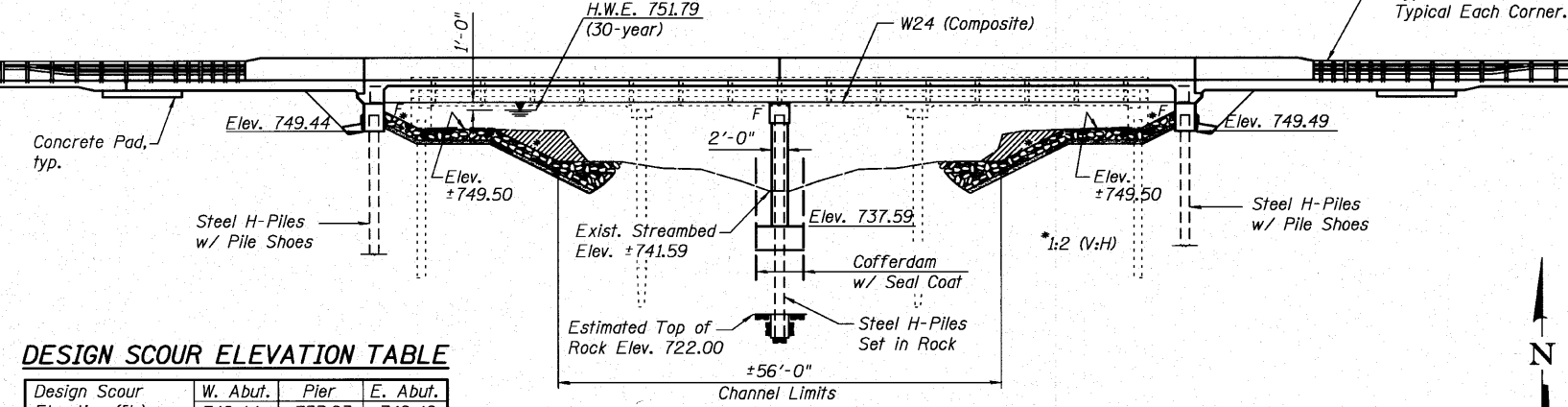


Bench Mark: Chiseled "X" on SW wingwall of SN 045-3042 (Elev. 753.96 - NGVD 29)

Existing Structure:  
SN 045-3042, three span reinforced concrete slab superstructure measuring 93'-1" back to back abutments and 26'-0" out to out of deck supported on timber pile bent abutments and concrete pile bent piers. Built as SA Route 73, Section 185 B-MFT at Station 122+25.00 in 1959. The Contractor shall remove the existing structure and replace it with a two span steel beam structure on integral abutments. The road will be closed and traffic detoured during construction.

Existing guardrail and terminal sections to be salvaged. Contractor to deliver to location specified by Engineer.

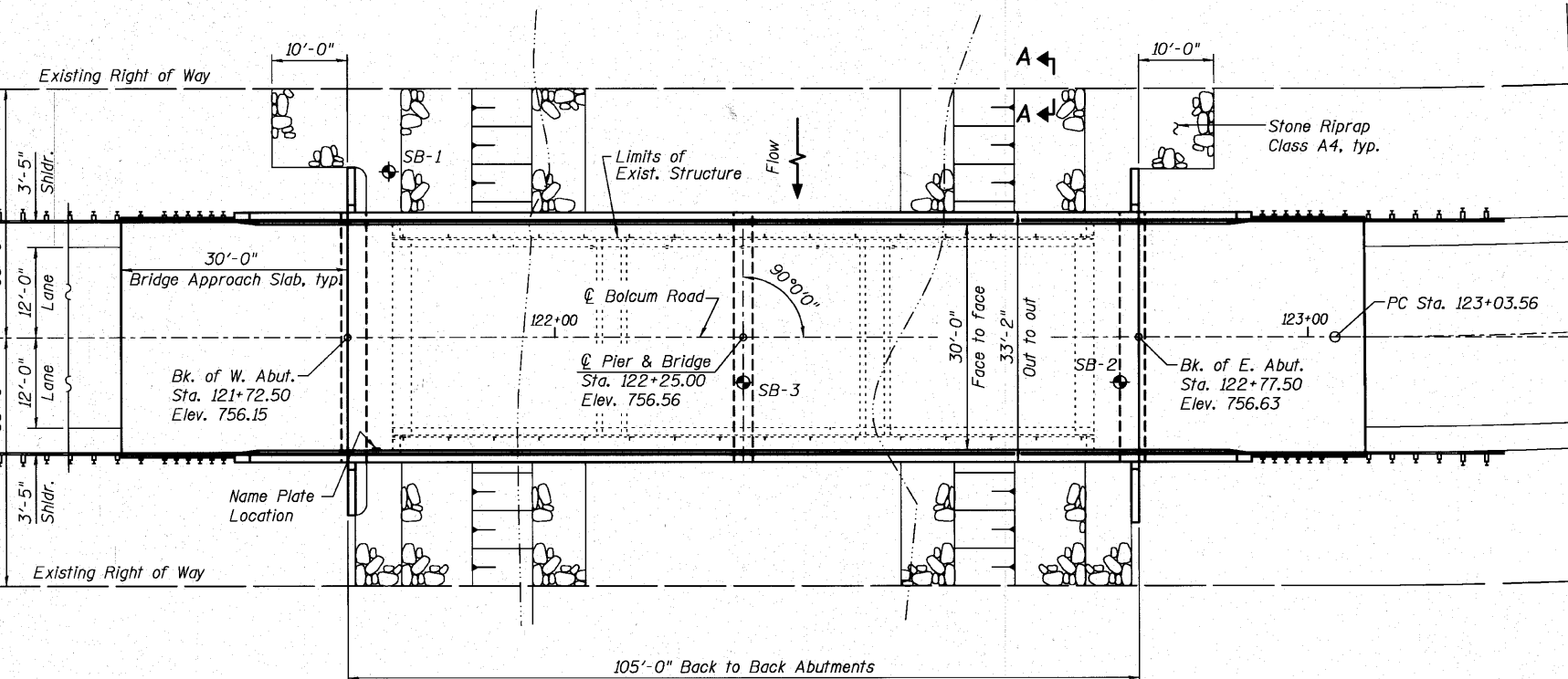
Hatched areas indicate excavation required for stone riprap placement. For earth excavation quantities, see Roadway Plans.



DESIGN SCOUR ELEVATION TABLE

Design Scour Elevation (ft.)	W. Abut.	Pier	E. Abut.
	749.44	733.93	749.49

ELEVATION



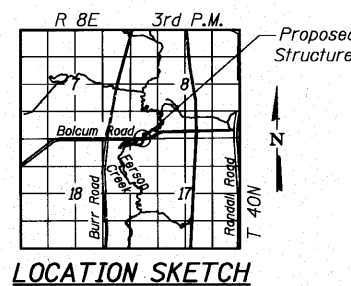
PLAN

Indicates Soil Boring Location

WATERWAY INFORMATION

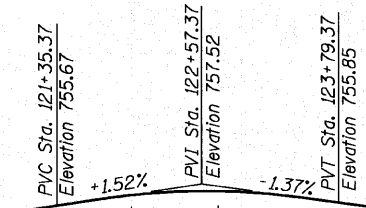
Drainage Area = 43.92 sq. mi. Low Grade Elev. 752.30 Sta. 114+00

Flood	Freq. Yr.	Q C.F.S.	Opening Sq. Ft.		Nat. H.W.E.	Head - Ft.		Headwater El.	
			Exist.	Prop.		Exist.	Prop.	Exist.	Prop.
Design	30	2083	459	535	751.79	0.14	0.12	751.93	751.91
Base	100	3027	489	589	752.48	0.22	0	752.70	752.48
Overtopping	500	5649	489	640	754.10	0.03	0	754.13	754.10



FERSON CREEK  
BUILT 2011 BY  
ST. CHARLES TOWNSHIP  
SEC. 03-14185-02-BR  
F.A.U. 2332 STA. 122+25  
STR. NO. 045-3020 LOADING HL 93

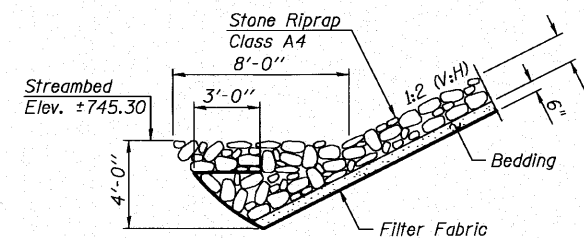
NAME PLATE  
See Std. 515001



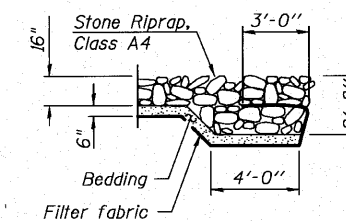
PROFILE GRADE  
(Along Bolcum Road)

Grade	Station
8%	Sta. 123+64
5.33%	Sta. 123+00
2%	Sta. 122+20
2%	Sta. 121+72
2%	Sta. 121+24

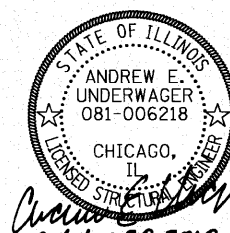
DECK CROSS-SLOPE TRANSITIONS  
(Looking Upstation)



STONE RIPRAP ANCHOR DETAIL



SECTION A-A



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

GENERAL PLAN & ELEVATION  
BOLCUM ROAD OVER FERSON CREEK  
SECTION 03-14185-02-BR  
KANE COUNTY  
STATION 122+25  
STRUCTURE NO. 045-3020

SHEET NO. 1 21 SHEETS	F.A.U.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
	2332	03-14185-02-BR	KANE	73	25
FED. ROAD DIST. NO.			ILLINOIS	FED. AID PROJECT	
CONTRACT NO. 63521					

FILE NAME = P:\CIBEL WEST\Projects\2009\99-0802 Bolcum PH\Structure\1\Drawings\0453020-63521-001-01E.dgn

**GENERAL NOTES**

Fasteners shall be AASHTO M164 Type 1, mechanically galvanized bolts in painted areas and M164 Type 3 in unpainted areas. Bolts  $\frac{7}{8}$ -in.  $\phi$ , holes  $\frac{15}{16}$ -in.  $\phi$ , unless otherwise noted.

Calculated weight of Structural Steel = 63,370 lb.

All structural steel shall be AASHTO M 270 Grade 50W.

No field welding is permitted except as specified in the contract documents.

Reinforcement bars shall conform to the requirements of ASTM A 706 Gr 60. See Special Provisions.

Reinforcement bars designated (E) shall be epoxy coated.

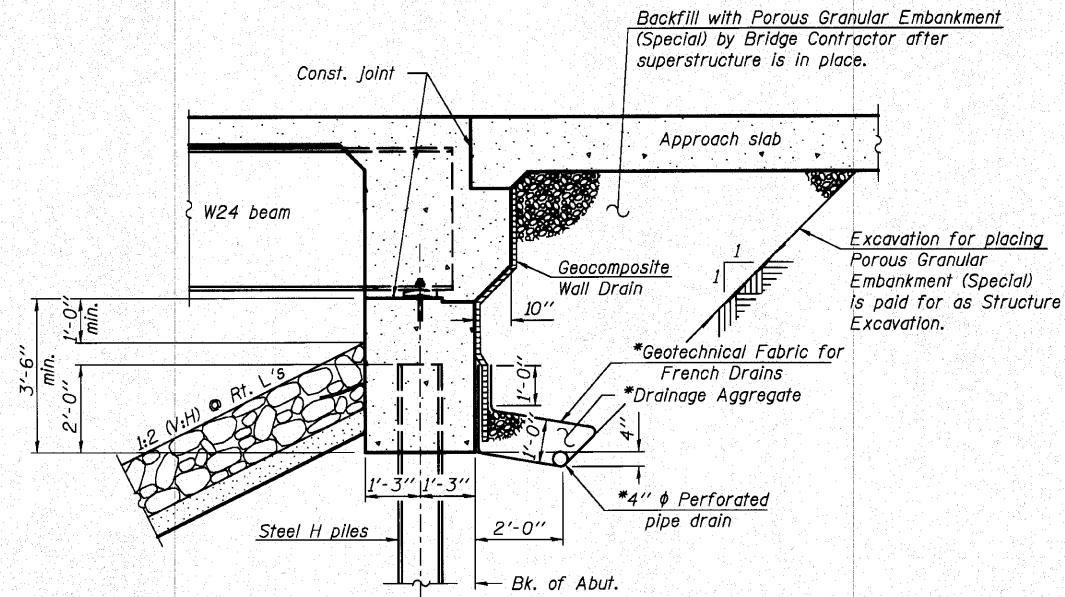
Bearing seat surfaces shall be constructed or adjusted to their designated elevations within a tolerance of  $\frac{1}{8}$  inch (0.01 ft.). Adjustment shall be made either by grinding the surface or by shimming the bearings.

Structural steel shall only be painted for a distance equal to the depth of embedment into the concrete cap plus 3 inches. Those areas shall be primed in the shop with a Department approved zinc rich primer. No field painting shall be required. All structural steel shall be cleaned as specified in the Special Provision for "Surface Preparation and Painting Requirements for Weathering Steel".

Layout of slope protection system may be varied in the field to suit ground conditions as directed by the Engineer.

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

The Contractor shall drive test piles to 110% of the nominal required bearing specified in production locations at substructures specified or approved by the Engineer before ordering the remainder of piles.



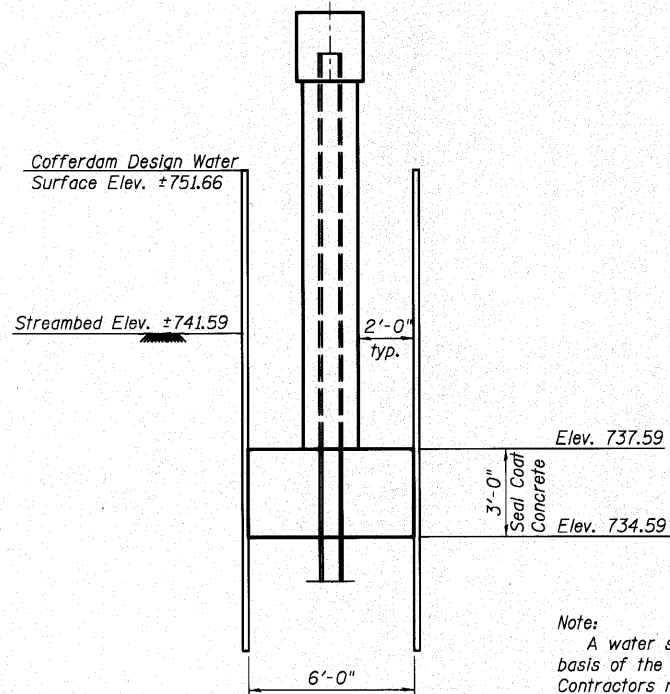
**SECTION THRU INTEGRAL ABUTMENT**

\*Included in the cost of Pipe Underdrains for Structures.

Note:  
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).

**TOTAL BILL OF MATERIAL**

ITEM	UNIT	SUPER	SUB	TOTAL
Stone Riprap, Class A4	Sq. Yd.		517	517
Filter Fabric	Sq. Yd.		517	517
Removal of Existing Structures	Each	1		1
Bridge Rail Removal	Foot	186		186
Structure Excavation	Cu. Yd.		186	186
Cofferdam Excavation	Cu. Yd.		58	58
Cofferdam, Location 1	Each		1	1
Concrete Structures	Cu. Yd.		85.7	85.7
Concrete Superstructure	Cu. Yd.	237.5		237.5
Bridge Deck Grooving	Sq. Yd.	553		553
Seal Coat Concrete	Cu. Yd.		24.8	24.8
Concrete Encasement	Cu. Yd.		4.2	4.2
Protective Coat	Sq. Yd.	671		671
Furnishing and Erecting Structural Steel	L. Sum		1	1
Stud Shear Connectors	Each	1,920		1,920
Reinforcement Bars, Epoxy Coated	Pound	57,260	7,280	64,540
Bar Splacers	Each	72		72
Furnishing Steel Piles HP 12x53	Foot		300	300
Furnishing Steel Piles HP 14x73	Foot		192	192
Driving Piles	Foot		300	300
Test Pile Steel HP 12x53	Each		2	2
Pile Shoes	Each		12	12
Name Plates	Each	1		1
Anchor Bolts, 1"	Each		30	30
Geocomposite Wall Drain	Sq. Yd.		54	54
Pipe Underdrains for Structures 4"	Foot		145	145
Porous Granular Embankment, Special	Cu. Yd.		97	97
Setting Piles in Rock	Each		6	6



Note:  
A water surface elevation of ±748.66 will be the basis of the cofferdam design. It is the Contractor's responsibility to provide a design for the cofferdam, verification of seal coat thickness shown and all other required appurtenances, subject to approval of the Engineer. Plan dimensions of cofferdam are 6'-0" x 37'-2".

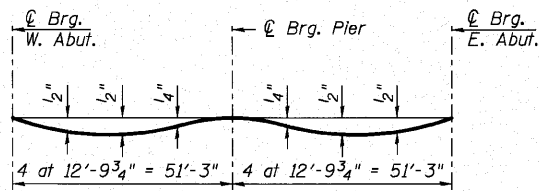
**COFFERDAM DETAIL**

DESIGNED - AEU
CHECKED - DLS
DRAWN - AWH
CHECKED - AEU

**GENERAL DATA  
STRUCTURE NO. 045-3020**

SHEET NO. 2 21 SHEETS	F.A.U.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
	2332	03-14185-02-BR	KANE	73	26
FED. ROAD DIST. NO.			ILLINOIS	CONTRACT NO. 63521	
FED. ROAD DIST. NO.			ILLINOIS	FED. AID PROJECT	

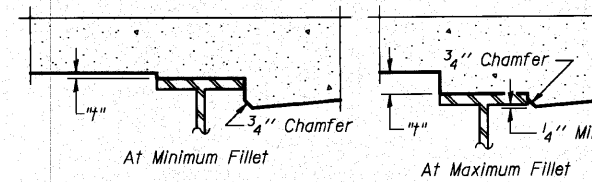
**WILLS BURKE KELSEY ASSOCIATES LTD.**  
116 West Main Street, Suite 201  
St. Charles, Illinois 60174  
(630) 443-7755



**DEAD LOAD DEFLECTION DIAGRAM**

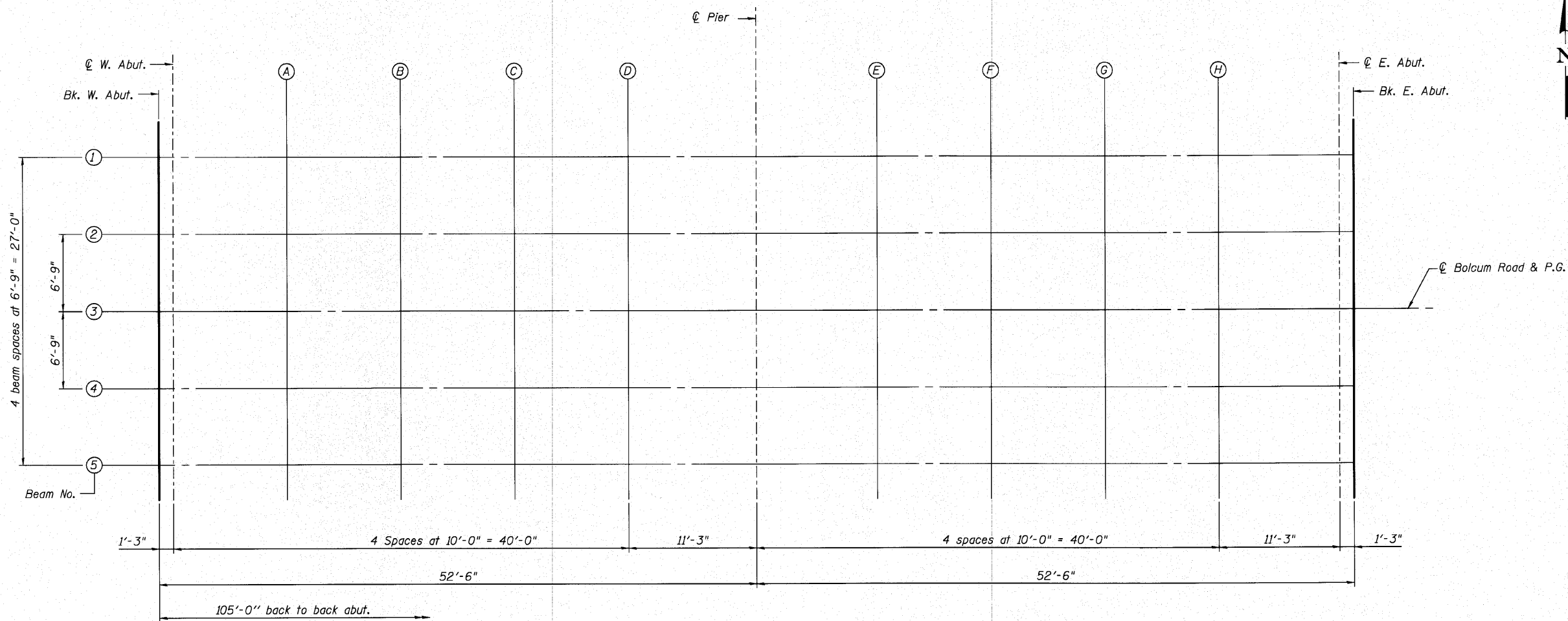
(Includes weight of concrete only.)

Note:  
The above deflections are not to be used in the field if the engineer is working from the grade elevations adjusted for dead load deflections as shown below.



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

**FILLET HEIGHTS**



**PLAN**

DESIGNED - MLH
CHECKED - AEU
DRAWN - AWH
CHECKED - AEU

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(630) 443-7755

SHEET NO. 3 21 SHEETS	F.A.U.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
	2332	03-14185-02-BR	KANE	73	27
FED. ROAD DIST. NO.			ILLINOIS	FED. AID PROJECT	
CONTRACT NO. 63521					

**TOP OF SLAB ELEVATIONS  
STRUCTURE NO. 045-3020**

FILE NAME = P:\ARBEL WEST Projects\20875\01-0802 Bolcum PH11\Structures\Drawings\045-3020-003-105-11and.dgn  
PLOT CREATION DATE = 10/19/2010

**BEAM 1**

Location	Station	Offset	Theoretical Grade Elevations	Theoretical Grade Elevations Adjusted For Dead Load Deflection
Bk. W. Abut.	121+72.50	-13.50	755.88	755.88
CL Brg. W. Abut.	121+73.75	-13.50	755.90	755.90
A	121+83.75	-13.50	756.00	756.03
B	121+93.75	-13.50	756.09	756.13
C	122+03.75	-13.50	756.16	756.20
D	122+13.75	-13.50	756.23	756.25
CL Pier	122+25.00	-13.50	756.26	756.26
E	122+35.00	-13.50	756.24	756.25
F	122+45.00	-13.50	756.21	756.25
G	122+55.00	-13.50	756.17	756.22
H	122+65.00	-13.50	756.12	756.15
CL Brg. E. Abut.	122+76.25	-13.50	756.05	756.05
Bk. E. Abut.	122+77.50	-13.50	756.04	756.04

**BEAM 2**

Location	Station	Offset	Theoretical Grade Elevations	Theoretical Grade Elevations Adjusted For Dead Load Deflection
Bk. W. Abut.	121+72.50	-6.75	756.02	756.02
CL Brg. W. Abut.	121+73.75	-6.75	756.03	756.03
A	121+83.75	-6.75	756.13	756.16
B	121+93.75	-6.75	756.22	756.27
C	122+03.75	-6.75	756.30	756.34
D	122+13.75	-6.75	756.36	756.38
CL Pier	122+25.00	-6.75	756.41	756.41
E	122+35.00	-6.75	756.42	756.43
F	122+45.00	-6.75	756.42	756.45
G	122+55.00	-6.75	756.41	756.45
H	122+65.00	-6.75	756.38	756.42
CL Brg. E. Abut.	122+76.25	-6.75	756.34	756.34
Bk. E. Abut.	122+77.50	-6.75	756.34	756.34

**BEAM 3 & P.G.L.**

Location	Station	Offset	Theoretical Grade Elevations	Theoretical Grade Elevations Adjusted For Dead Load Deflection
Bk. W. Abut.	121+72.50	0.00	756.15	756.15
CL Brg. W. Abut.	121+73.75	0.00	756.17	756.17
A	121+83.75	0.00	756.27	756.30
B	121+93.75	0.00	756.36	756.40
C	122+03.75	0.00	756.43	756.47
D	122+13.75	0.00	756.50	756.52
CL Pier	122+25.00	0.00	756.56	756.56
E	122+35.00	0.00	756.60	756.61
F	122+45.00	0.00	756.62	756.66
G	122+55.00	0.00	756.64	756.69
H	122+65.00	0.00	756.65	756.68
CL Brg. E. Abut.	122+76.25	0.00	756.64	756.64
Bk. E. Abut.	122+77.50	0.00	756.63	756.63

**BEAM 4**

Location	Station	Offset	Theoretical Grade Elevations	Theoretical Grade Elevations Adjusted For Dead Load Deflection
Bk. W. Abut.	121+72.50	6.75	756.15	756.15
CL Brg. W. Abut.	121+73.75	6.75	756.17	756.17
A	121+83.75	6.75	756.30	756.33
B	121+93.75	6.75	756.42	756.46
C	122+03.75	6.75	756.52	756.56
D	122+13.75	6.75	756.61	756.63
CL Pier	122+25.00	6.75	756.71	756.71
E	122+35.00	6.75	756.78	756.79
F	122+45.00	6.75	756.83	756.87
G	122+55.00	6.75	756.88	756.92
H	122+65.00	6.75	756.91	756.94
CL Brg. E. Abut.	122+76.25	6.75	756.93	756.93
Bk. E. Abut.	122+77.50	6.75	756.93	756.93

**BEAM 5**

Location	Station	Offset	Theoretical Grade Elevations	Theoretical Grade Elevations Adjusted For Dead Load Deflection
Bk. W. Abut.	121+72.50	13.50	756.14	756.14
CL Brg. W. Abut.	121+73.75	13.50	756.16	756.16
A	121+83.75	13.50	756.31	756.34
B	121+93.75	13.50	756.45	756.50
C	122+03.75	13.50	756.58	756.62
D	122+13.75	13.50	756.70	756.72
CL Pier	122+25.00	13.50	756.82	756.82
E	122+35.00	13.50	756.91	756.93
F	122+45.00	13.50	756.99	757.03
G	122+55.00	13.50	757.06	757.11
H	122+65.00	13.50	757.12	757.15
CL Brg. E. Abut.	122+76.25	13.50	757.17	757.17
Bk. E. Abut.	122+77.50	13.50	757.17	757.17

**TOP OF SLAB ELEVATIONS  
STRUCTURE NO. 045-3020**

DESIGNED - MLH
CHECKED - AEU
DRAWN - AWH
CHECKED - AEU

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 (630) 443-7755

SHEET NO. 4 21 SHEETS	F.A.U.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
	2332	03-14185-02-BR	KANE	73	28
FED. ROAD DIST. NO.			ILLINOIS FED. AID PROJECT		
CONTRACT NO. 63521					



**NORTH CURB LINE**

Location	Station	Offset	Theoretical Grade Elevations
End W. Appr. Slab	121+42.50	-15.42	755.47
A1	121+52.50	-15.42	755.60
A2	121+62.50	-15.00	755.74
Bk. W. Abut.	121+72.50	-15.00	755.85

**NORTH EDGE OF PAVEMENT**

Location	Station	Offset	Theoretical Grade Elevations
End W. Appr. Slab	121+42.50	-12.00	755.54
A1	121+52.50	-12.00	755.67
A2	121+62.50	-12.00	755.80
Bk. W. Abut.	121+72.50	-12.00	755.91

**☉ ROADWAY & PG**

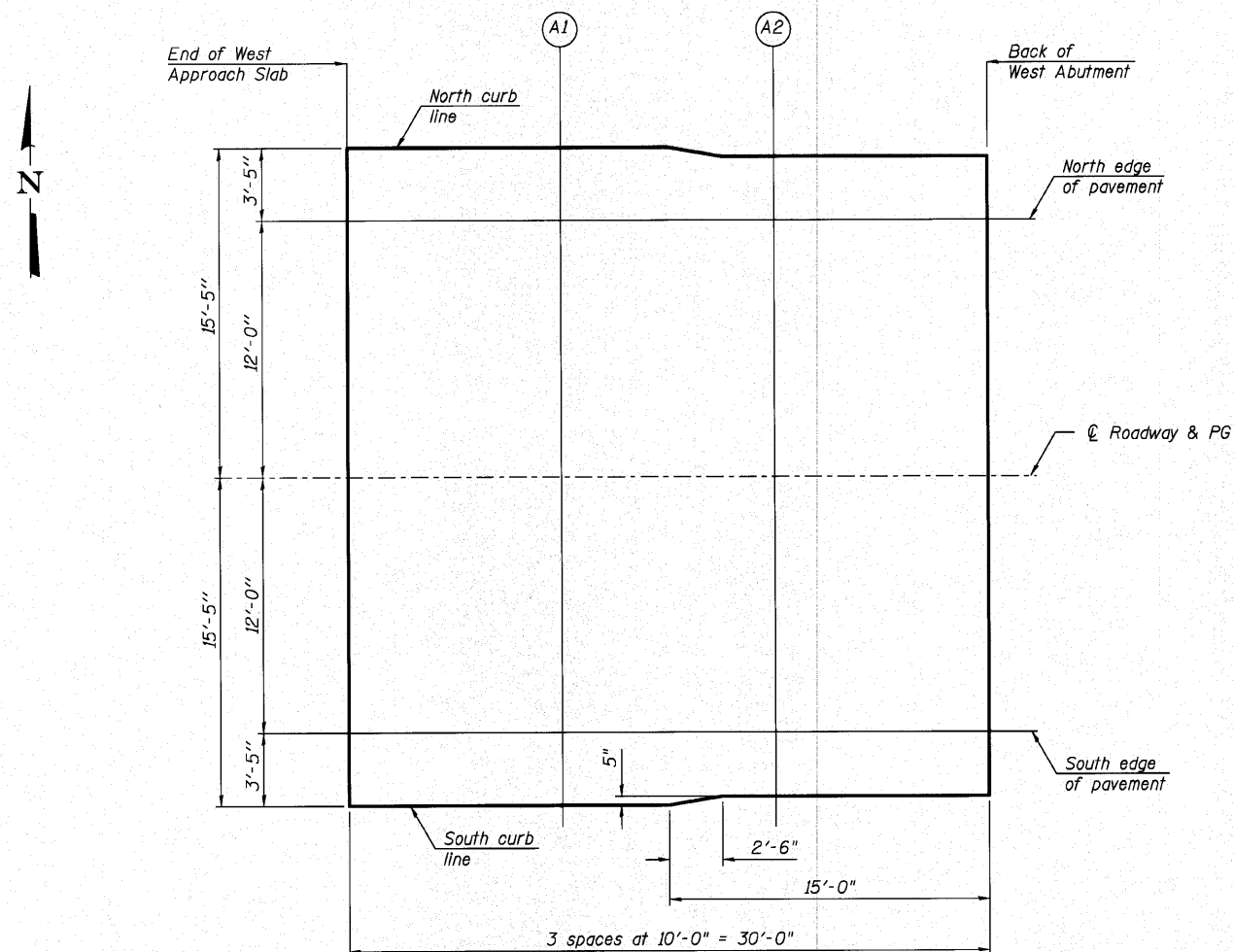
Location	Station	Offset	Theoretical Grade Elevations
End W. Appr. Slab	121+42.50	0.00	755.78
A1	121+52.50	0.00	755.91
A2	121+62.50	0.00	756.04
Bk. W. Abut.	121+72.50	0.00	756.15

**SOUTH EDGE OF PAVEMENT**

Location	Station	Offset	Theoretical Grade Elevations
End W. Appr. Slab	121+42.50	12.00	755.63
A1	121+52.50	12.00	755.82
A2	121+62.50	12.00	755.99
Bk. W. Abut.	121+72.50	12.00	756.15

**SOUTH CURB LINE**

Location	Station	Offset	Theoretical Grade Elevations
End W. Appr. Slab	121+42.50	15.42	755.57
A1	121+52.50	15.42	755.76
A2	121+62.50	15.00	755.95
Bk. W. Abut.	121+72.50	15.00	756.12



**PLAN**

**TOP OF WEST APPROACH  
SLAB ELEVATIONS  
STRUCTURE NO. 045-3020**

DESIGNED - AEU
CHECKED - RPD
DRAWN - AWH
CHECKED - AEU

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St. Charles, Illinois 60174  
(630) 443-7765

SHEET NO. 5 21 SHEETS	F.A.U.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
	2332	03-14185-02-BR	KANE	73	29
FED. ROAD DIST. NO.			ILLINOIS	FED. AID PROJECT	
CONTRACT NO. 63521					

**NORTH CURB LINE**

Location	Station	Offset	Theoretical Grade Elevations
Bk. E. Abut.	122+77.50	-15.00	755.97
A3	122+87.50	-15.00	755.89
A4	122+97.50	-15.42	755.77
End E. Appr. Slab	123+07.50	-15.42	755.66

**NORTH EDGE OF PAVEMENT**

Location	Station	Offset	Theoretical Grade Elevations
Bk. E. Abut.	122+77.50	-12.00	756.11
A3	122+87.50	-12.00	756.03
A4	122+97.50	-12.00	755.95
End E. Appr. Slab	123+07.50	-12.00	755.85

**CL ROADWAY & PG**

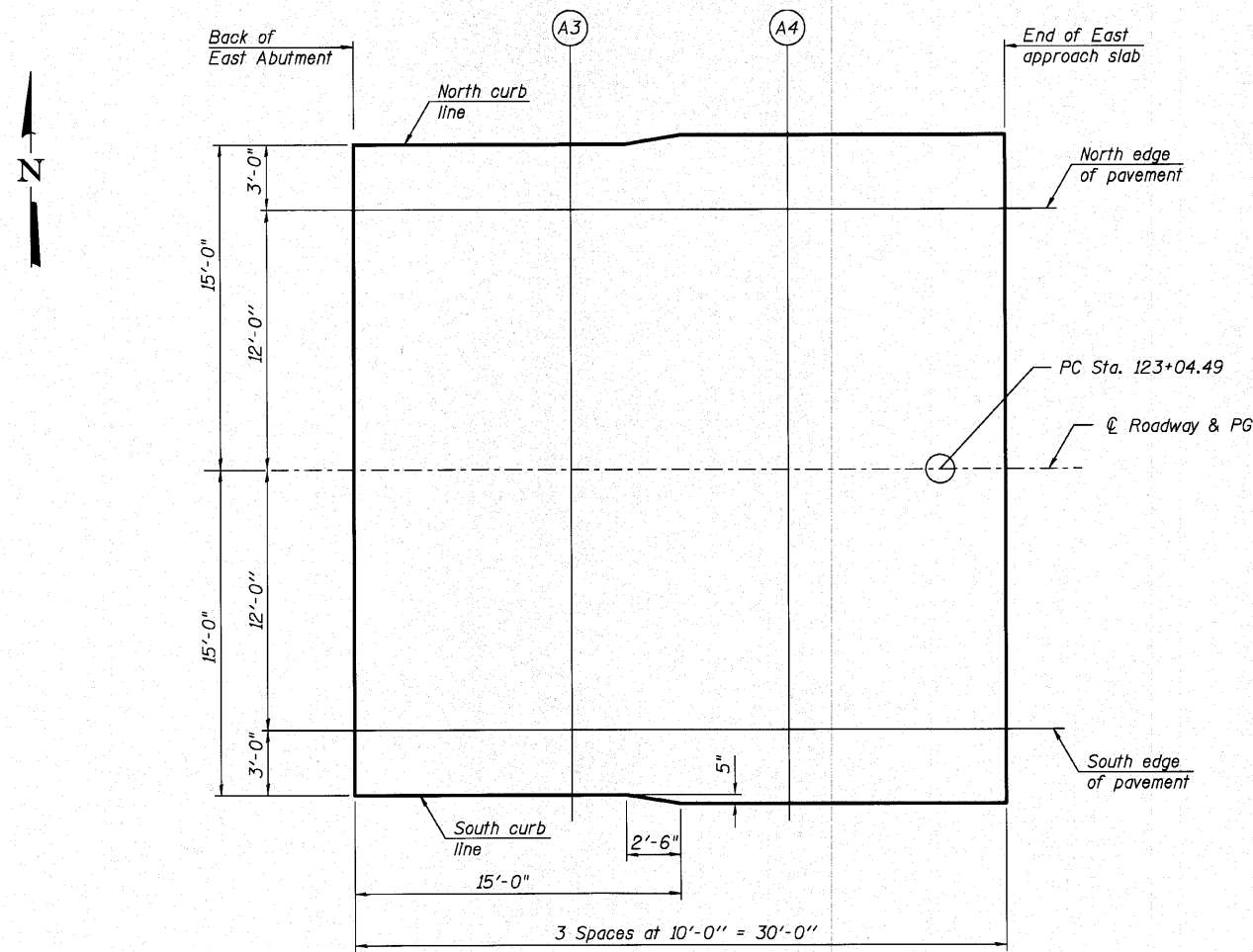
Location	Station	Offset	Theoretical Grade Elevations
Bk. E. Abut.	122+77.50	0.00	756.63
A3	122+87.50	0.00	756.61
A4	122+97.50	0.00	756.58
End E. Appr. Slab	123+07.50	0.00	756.53

**SOUTH EDGE OF PAVEMENT**

Location	Station	Offset	Theoretical Grade Elevations
Bk. E. Abut.	122+77.50	12.00	757.16
A3	122+87.50	12.00	757.19
A4	122+97.50	12.00	757.21
End E. Appr. Slab	123+07.50	12.00	757.21

**SOUTH CURB LINE**

Location	Station	Offset	Theoretical Grade Elevations
Bk. E. Abut.	122+77.50	15.00	757.18
A3	122+87.50	15.00	757.21
A4	122+97.50	15.42	757.24
End E. Appr. Slab	123+07.50	15.42	757.25



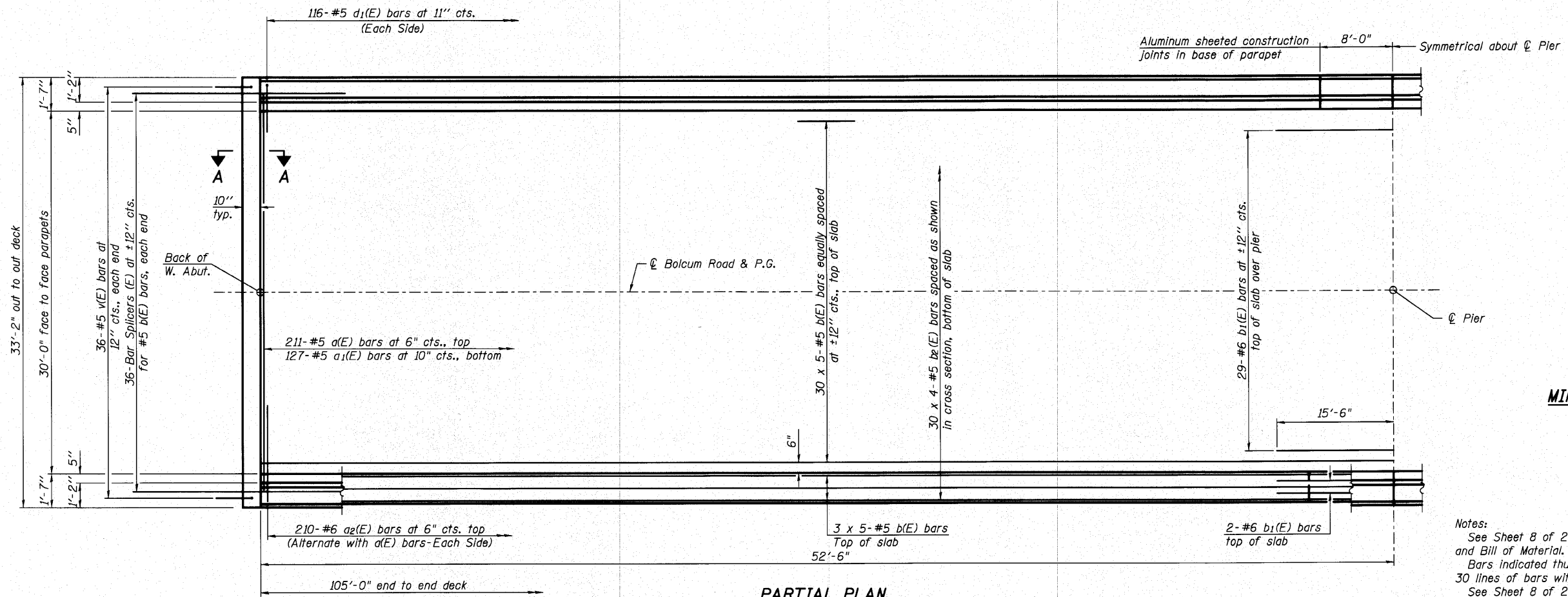
**PLAN**

**TOP OF EAST APPROACH  
SLAB ELEVATIONS  
STRUCTURE NO. 045-3020**

DESIGNED - AEU
CHECKED - RPD
DRAWN - AWH
CHECKED - AEU

**WILLS BURKE KELSEY ASSOCIATES LTD.**  
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St. Charles, Illinois 60174  
(630) 443-7755

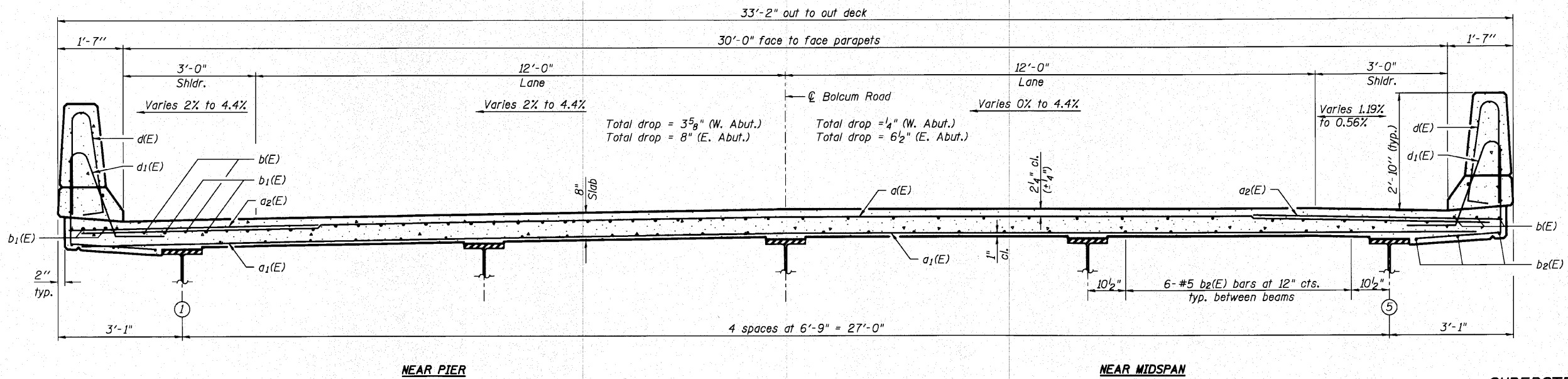
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	2332	03-14185-02-BR	KANE	73	30
FED. ROAD DIST. NO.			ILLINOIS	FED. AID PROJECT	
CONTRACT NO. 63521					



**PARTIAL PLAN**

**MINIMUM BAR LAP**  
(Deck)  
#5 bar = 2'-7"

Notes:  
See Sheet 8 of 21 for superstructure details and Bill of Material.  
Bars indicated thus 30 x 5-#5 etc. indicates 30 lines of bars with 5 lengths per line.  
See Sheet 8 of 21 for parapet reinforcement.  
See Sheet 11 of 21 for Section A-A.



**CROSS SECTION**  
(Looking East)

**SUPERSTRUCTURE**  
**STRUCTURE NO. 045-3020**

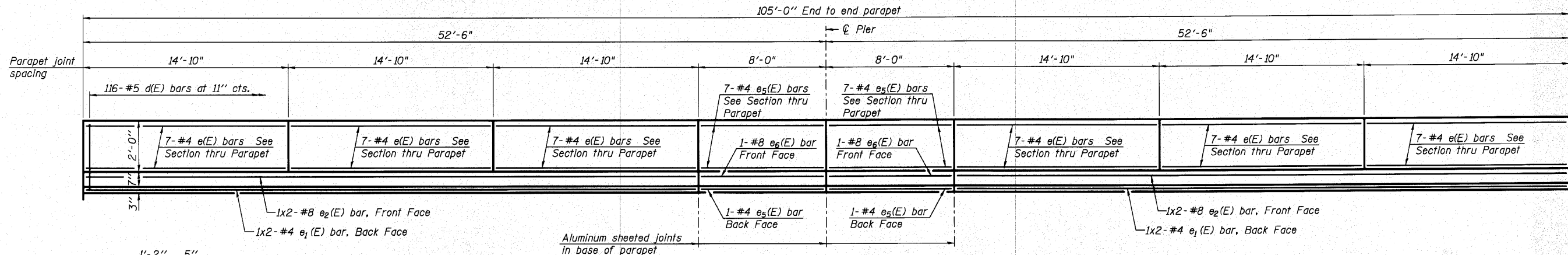
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CHECKED - DLS
DRAWN - AWH
CHECKED - DLS

**WILLS BURKE KELSEY ASSOCIATES LTD.**  
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St. Charles, Illinois 60174  
(630) 443-7755

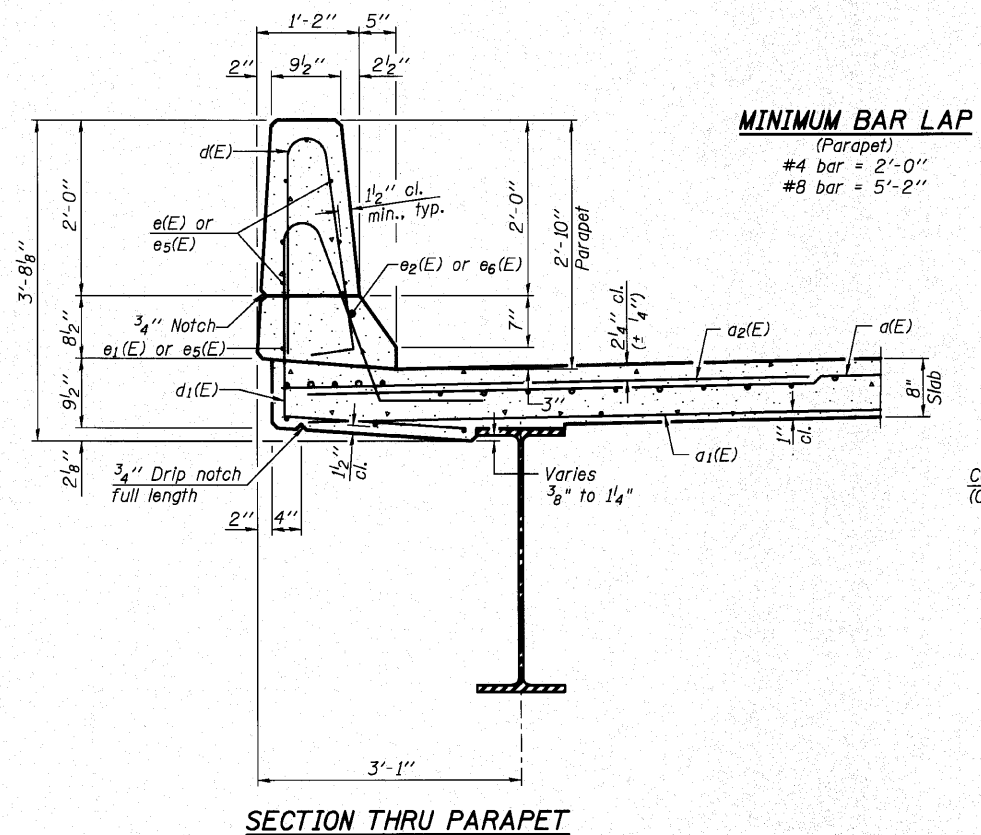
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	2332	03-14185-02-BR	KANE	73	31
CONTRACT NO. 63521					
FED. ROAD DIST. NO. ILLINOIS FED. AID PROJECT					

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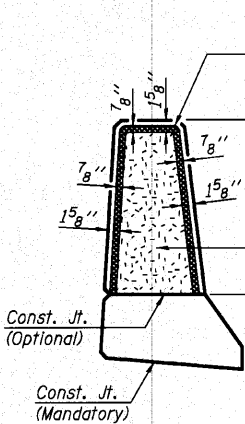
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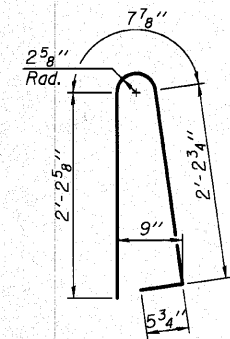
**INSIDE ELEVATION OF PARAPET**



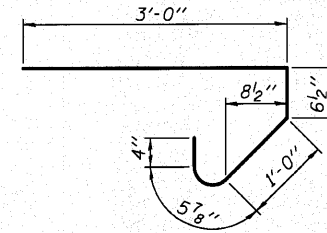
**SECTION THRU PARAPET**



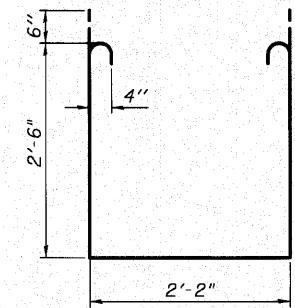
**PARAPET JOINT DETAILS**



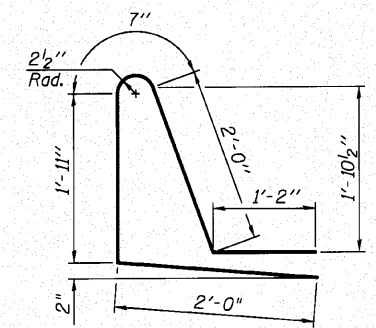
**BAR d(E)**



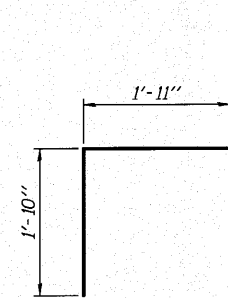
**BAR s(E)**



**BAR s1(E)**



**BAR d1(E)**



**BAR v(E)**

**SUPERSTRUCTURE BILL OF MATERIAL**

Bar	No.	Size	Length	Shape
d(E)	211	#5	32'-6"	—
d1(E)	127	#5	31'-10"	—
d2(E)	420	#6	6'-6"	—
b(E)	180	#5	23'-0"	—
b1(E)	33	#6	31'-0"	—
b2(E)	120	#5	28'-2"	—
d(E)	232	#5	5'-7"	⌒
d1(E)	232	#5	7'-8"	⌒
e(E)	84	#4	14'-6"	—
e1(E)	8	#4	23'-1"	—
e2(E)	8	#8	24'-8"	—
e5(E)	32	#4	7'-8"	—
e6(E)	4	#8	7'-8"	—
m(E)	20	#6	18'-1"	—
m1(E)	12	#6	10'-1"	—
m2(E)	8	#6	6'-5"	—
m3(E)	4	#6	2'-9"	—
m4(E)	8	#6	7'-10"	—
s(E)	68	#5	5'-5"	⌒
s1(E)	60	#4	8'-2"	⌒
v(E)	72	#5	3'-9"	⌒
Reinforcement Bars, Epoxy Coated	Pound	31,670		
Concrete Superstructure	Cu. Yds.	134.1		

Bars indicated thus 1 x 2 - #4 etc. indicates 1 line of bars with 2 lengths per line.

**SUPERSTRUCTURE DETAILS STRUCTURE NO. 045-3020**

DESIGNED - AEU  
 CHECKED - DLS  
 DRAWN - AWH  
 CHECKED - DLS

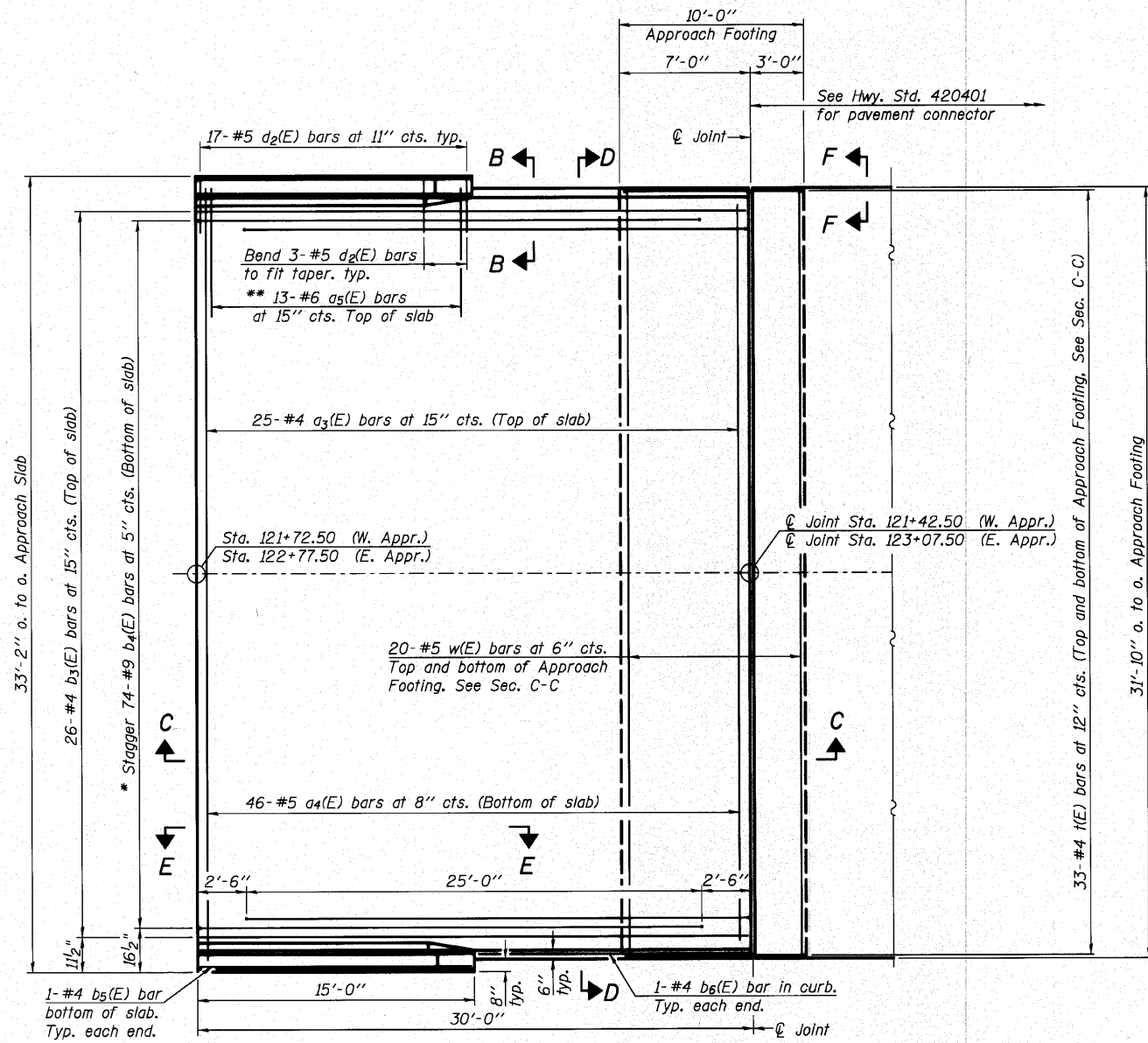
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 St. Charles, Illinois 60174  
 (630) 443-7755

SHEET NO. 8 21 SHEETS	F.A.U.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
	2332	03-14185-02-BR	KANE	73	32
CONTRACT NO. 63521			FED. ROAD DIST. NO. ILLINOIS FED. AID PROJECT		

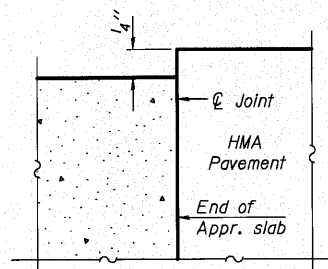
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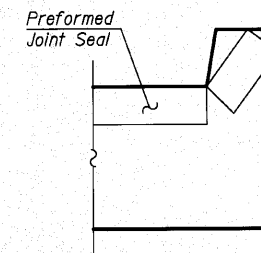
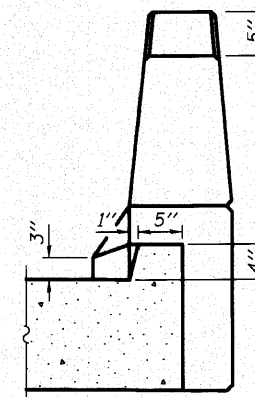
Notes:  
See Sheet 10 of 21 for Sections C-C & D-D and View E-E.



\* Tilt #9 b<sub>4</sub>(E) bars as required to maintain clearance.  
\*\* Space between a<sub>3</sub>(E) bars, typ. ea. parapet.



DETAIL A



Angle Preformed Joint Seal at 45° at curbs when req'd for drainage.

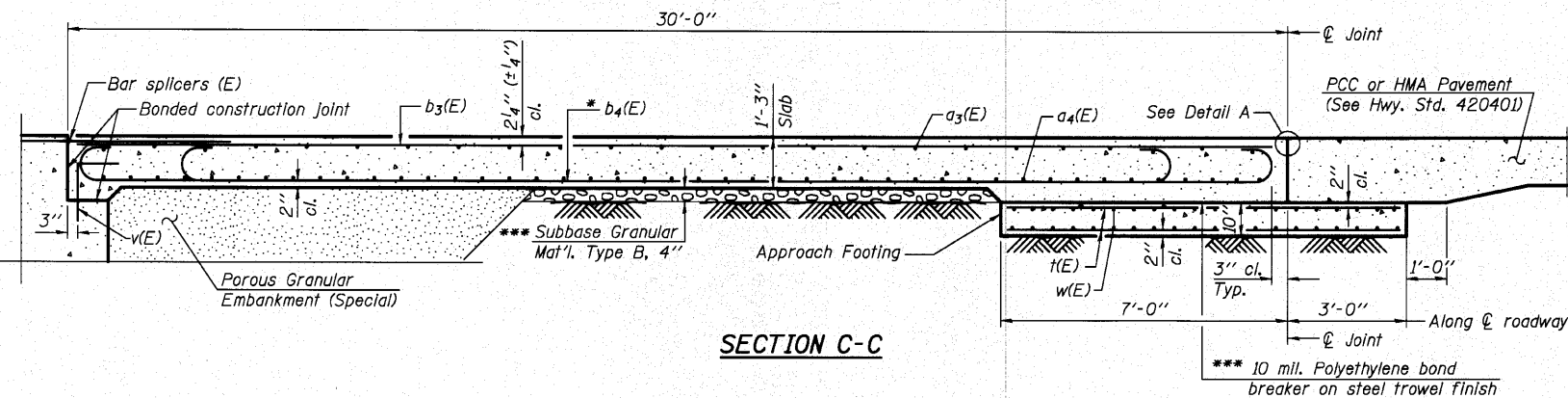
DESIGNED - AEU
CHECKED - DLS
DRAWN - AWH
CHECKED - AEU

(Sheet 1 of 2)  
**BRIDGE APPROACH SLAB DETAILS**  
**STRUCTURE NO. 045-3020**

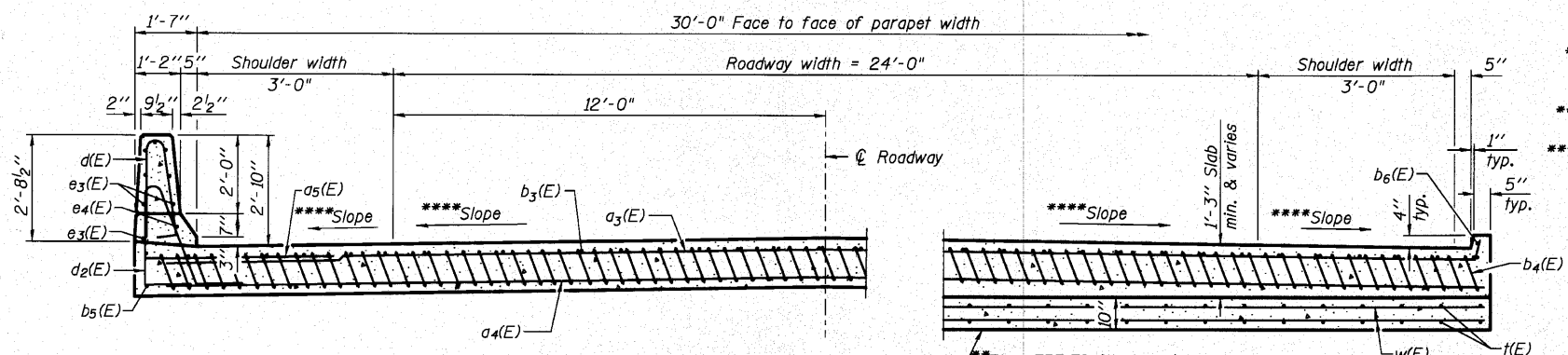
<b>WILLS BURKE KELSEY ASSOCIATES LTD.</b> 116 West Main Street, Suite 201 St. Charles, Illinois 60174 (630) 443-7755	SHEET NO. 9	F.A.U.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
	21 SHEETS	2332	03-14185-02-BR	KANE	73	33
		CONTRACT NO. 63521				
		FED. ROAD DIST. NO.	ILLINOIS	FED. AID PROJECT		

FILE NAME = P:\CIBEL WEST Projects\2887\01-0802 Bolonne PHITS\Structural\Drawings\045-3020-63521-0991-Approach\_Slab.dgn

PLOT CREATION DATE = 10/19/2010



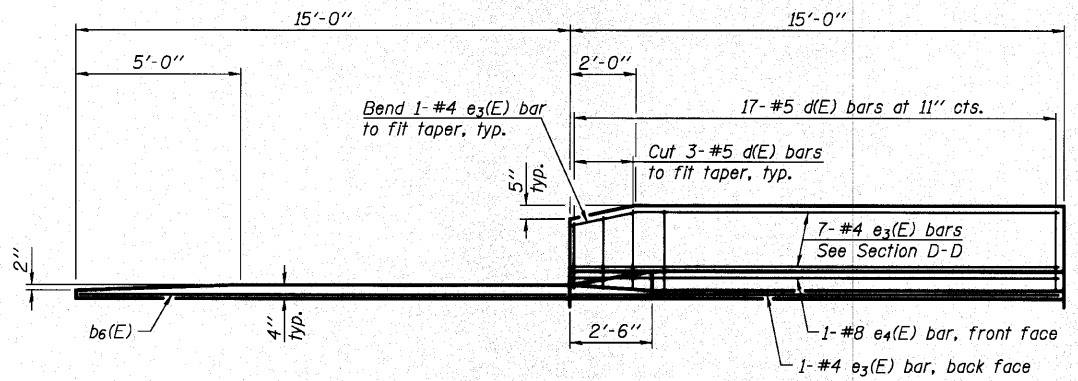
**SECTION C-C**



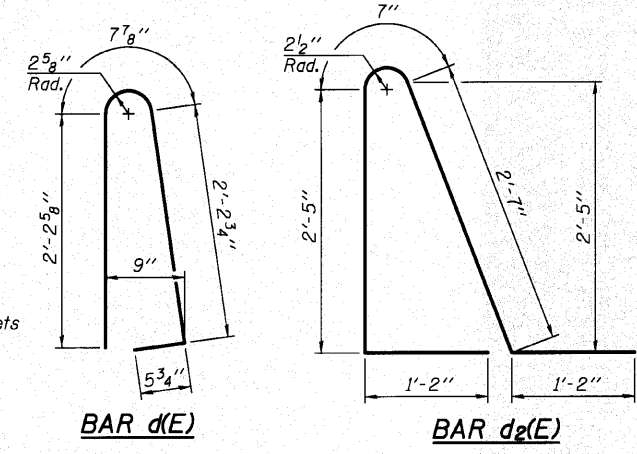
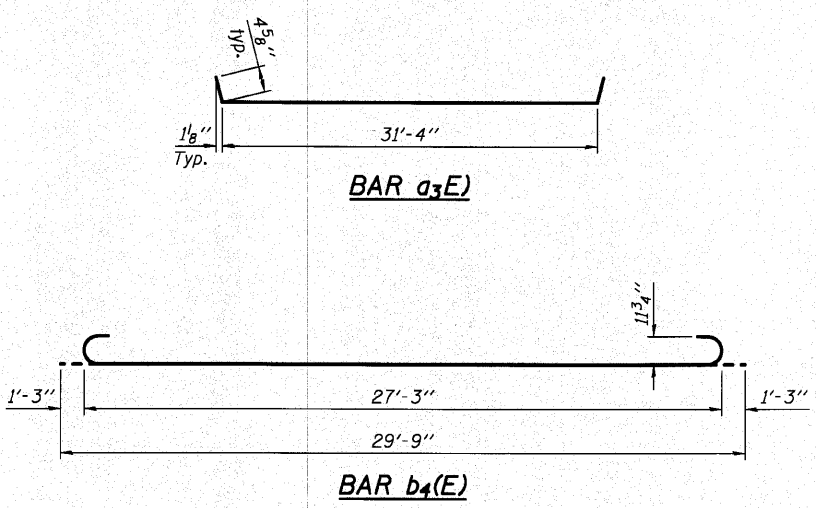
**NEAR ABUTMENT**

**SECTION D-D**

**AT APPROACH FOOTING**



**VIEW E-E**



**TWO APPROACHES  
BILL OF MATERIAL**

Bar	No.	Size	Length	Shape
a3(E)	50	#4	32'-1"	U
a4(E)	92	#5	31'-6"	U
a5(E)	52	#6	6'-6"	U
b3(E)	52	#4	29'-8"	U
b4(E)	148	#9	29'-9"	U
b5(E)	4	#4	14'-8"	U
b6(E)	4	#4	14'-8"	U
d(E)	68	#5	5'-7"	A
d2(E)	68	#5	7'-11"	A
e3(E)	32	#4	14'-8"	U
e4(E)	4	#8	14'-8"	U
t(E)	132	#4	9'-8"	U
w(E)	80	#5	31'-6"	U
Concrete Superstructure		Cu. Yd.	103.4	
Concrete Structures		Cu. Yd.	19.7	
Reinforcement Bars, Epoxy Coated		Pound	25,590	

**Notes:**  
 See Sheet 9 of 21 for Detail A and View B-B.  
 Approach slab and parapet concrete shall be paid for as Concrete Superstructure.  
 Approach footing concrete shall be paid for as Concrete Structures.  
 Reinforcement shall be paid for as Reinforcement Bars, Epoxy Coated.  
 For v(E) bar details, see Sheet 8 of 21.  
 The approach footing maximum applied service bearing pressure (Qmax) = 2.0 ksf.  
 For bar splicer details, see Sheet 19 of 21.  
 Cost of excavation for approach footing included with Concrete Structures.  
 For Porous Granular Embankment (Special) and drainage treatment details, see Sheet 2 of 21.  
 For additional parapet details, see Sheet 9 of 21.

- \* Tilt #9 b4(E) bars as required to maintain clearance.
- \*\* East approach footing to be constructed parallel to bottom of approach slab.
- \*\*\* Cost included with Concrete Superstructure.
- \*\*\*\* Slope varies due to superelevation transition. See sheets 5 & 6 of 21 for Top of Approach Slab Elevations.

FILE NAME = P:\CIBEL WEST Projects\2009\09-0602\_Balcom PHIT Structural\Drawn\453628-63521-01B-Approach-Slab2.dgn  
 PLOT CREATION DATE = 10/19/2010

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 CHECKED - DLS  
 DRAWN - AWH  
 CHECKED - AEU

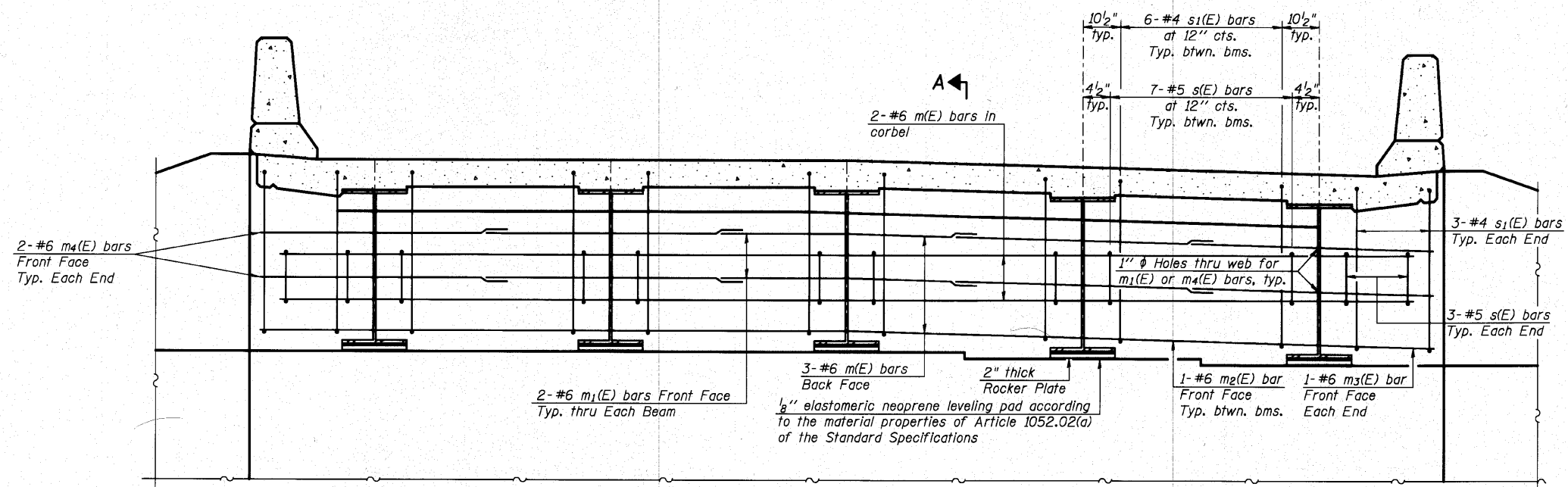
11-1-09

BA-0

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 St. Charles, Illinois 60174  
 (630) 443-7755

SHEET NO. 10 21 SHEETS	F.A.U.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
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FED. ROAD DIST. NO.			ILLINOIS FED. AID PROJECT		

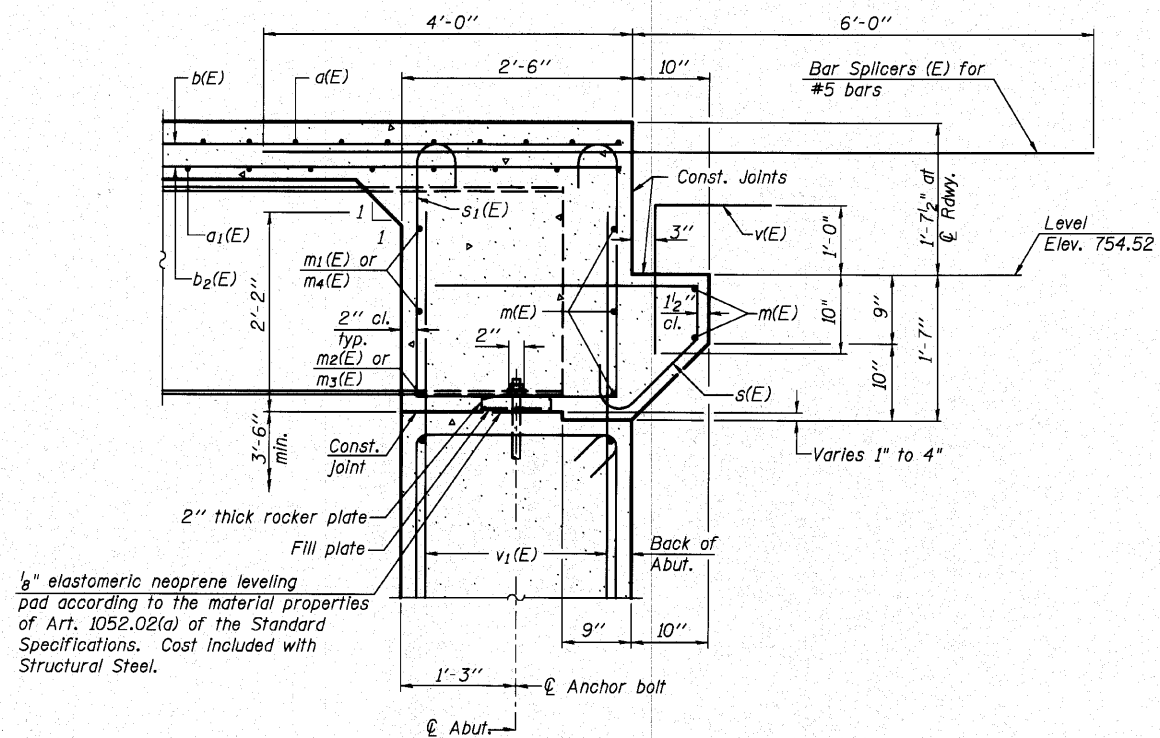
(Sheet 2 of 2)  
**BRIDGE APPROACH SLAB DETAILS**  
**STRUCTURE NO. 045-3020**



**A-A**  
**DIAPHRAGM ELEVATION AT ABUTMENT**

**Notes:**  
 Reinforcement bars in diaphragm are billed with superstructure on Sheet 8 of 21.  
 Concrete in diaphragm is included with Concrete Superstructure on Sheet 8 of 21.  
 For details of bars s(E) & s1(E) see Sheet 8 of 21.

**MIN. BAR LAP**  
 #6 bar = 3'-4"



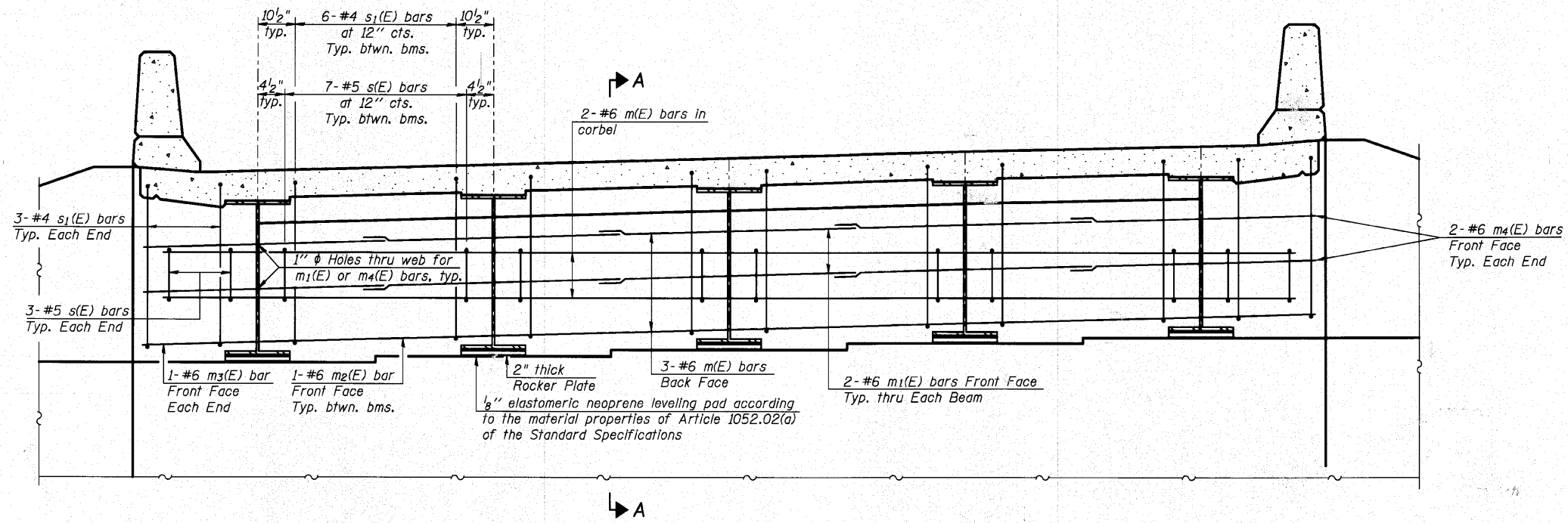
**SECTION A-A**

DESIGNED - AEU
CHECKED - DLS
DRAWN - AWH
CHECKED - AEU

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SHEET NO. 11 21 SHEETS	F.A.U.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
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		CONTRACT NO. 63521			
FED. ROAD DIST. NO.		ILLINOIS	FED. AID PROJECT		

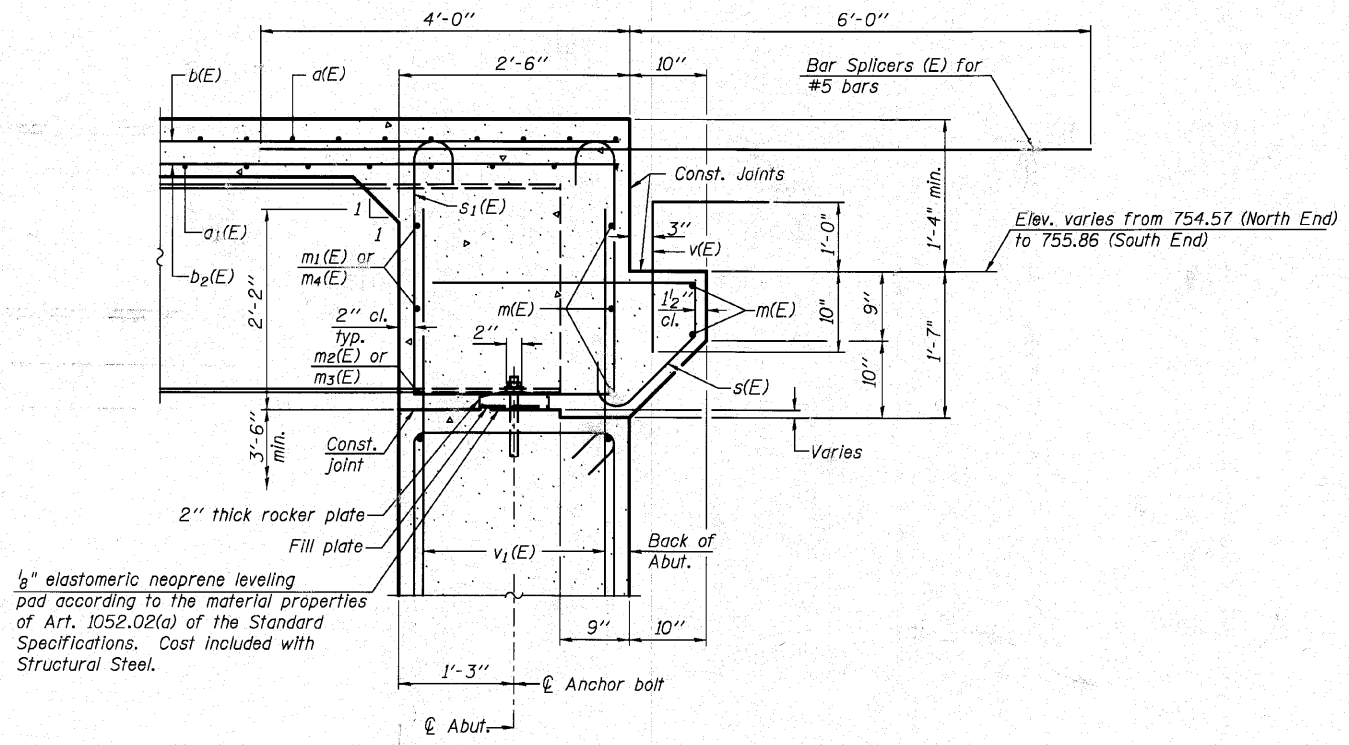
**WEST ABUTMENT**  
**DIAPHRAGM DETAILS**  
**STRUCTURE NO. 045-3020**



**DIAPHRAGM ELEVATION AT ABUTMENT**

**Notes:**  
 Reinforcement bars in diaphragm are billed with superstructure on Sheet 8 of 21.  
 Concrete in diaphragm is included with Concrete Superstructure on Sheet 8 of 21.  
 For details of bars s(E) & s1(E) see Sheet 8 of 21.

**MIN. BAR LAP**  
 #6 bar = 3'-4"



**SECTION A-A**

**EAST ABUTMENT  
 DIAPHRAGM DETAILS  
 STRUCTURE NO. 045-3020**

DESIGNED - AEU
CHECKED - DLS
DRAWN - AWH
CHECKED - AEU

SI-DS2 11-1-09

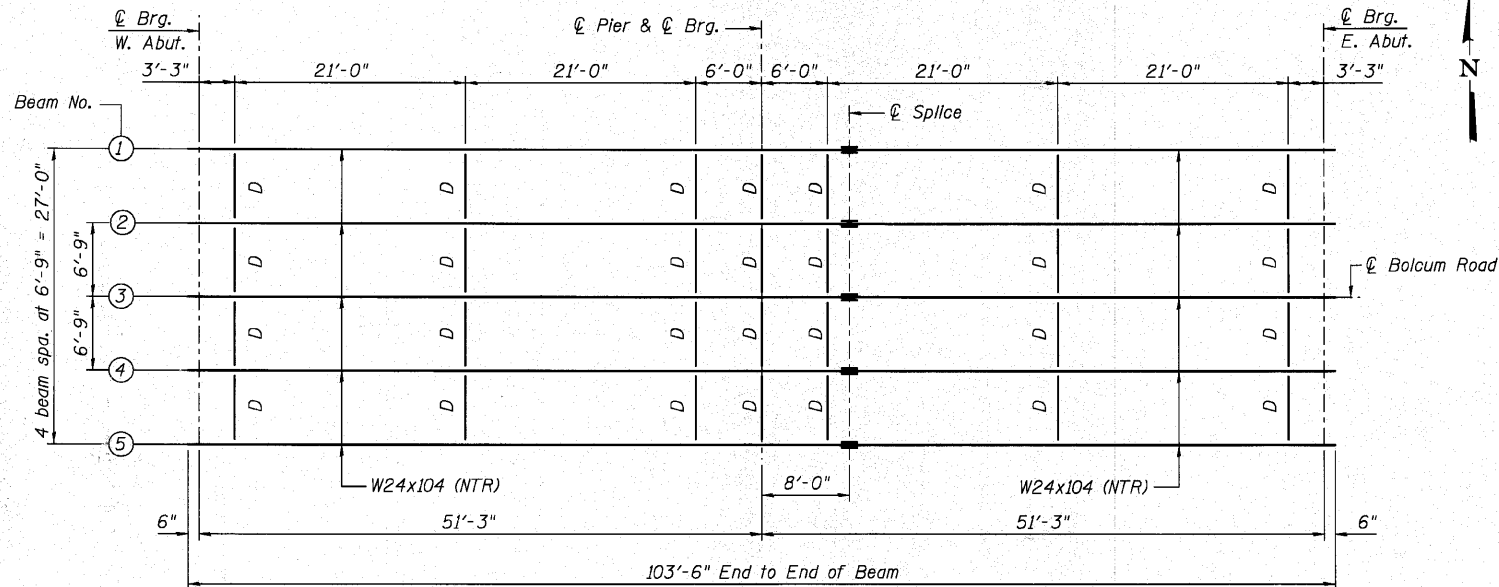
**WILLS BURKE KELSEY ASSOCIATES LTD.**  
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 (630) 443-7755

SHEET NO. 12 21 SHEETS	F.A.U.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
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CONTRACT NO. 63521					
FED. ROAD DIST. NO.		ILLINOIS	FED. AID PROJECT		

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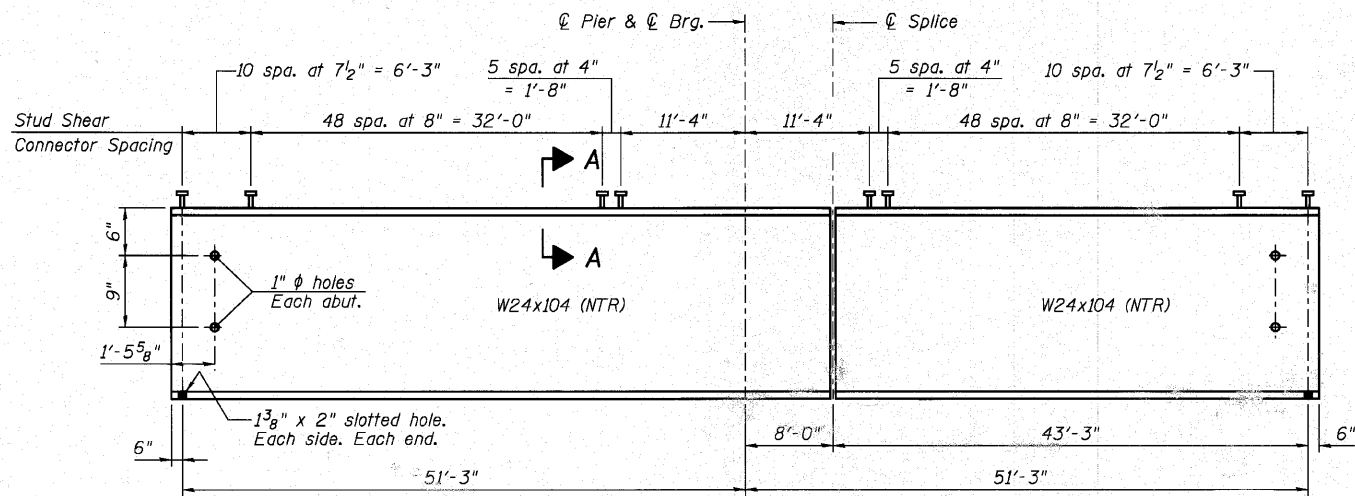
PLOT CREATION DATE = 12/19/2010





**FRAMING PLAN**

"D" denotes Interior Diaphragm. See Sheet 14 of 21.



**ELEVATION**

**TOP OF BEAM ELEVATIONS**

(For Fabrication Only)

Location	Beam 1	Beam 2	Beam 3	Beam 4	Beam 5
☉ Brg. W. Abut.	755.19	755.32	755.46	755.46	755.45
☉ Brg. Pier	755.49	755.64	755.79	755.94	756.05
☉ Splice	755.48	755.65	755.82	755.99	756.12
☉ Brg. E. Abut.	755.34	755.63	755.93	756.22	756.46

DESIGNED - DLS
CHECKED - AEU
DRAWN - AWH
CHECKED - DLS

	0.4 Sp 1 0.6 Sp2	Pier
$I_s$	(in <sup>4</sup> ) 3,100	3,100
$I_c(n)$	(in <sup>4</sup> ) 9,016	---
$I_c(3n)$	(in <sup>4</sup> ) 6,693	---
$S_s$	(in <sup>3</sup> ) 258	258
$S_c(n)$	(in <sup>3</sup> ) 387	---
$S_c(3n)$	(in <sup>3</sup> ) 350	---
$Z$	(in <sup>3</sup> ) ---	289
$DC1$	(k/ft) 0.80	0.80
$M_{DC1}$	(k) 147	263
$DC2$	(k/ft) 0.18	0.18
$M_{DC2}$	(k) 38	47
$DW$	(k/ft) 0.30	0.30
$M_{DW}$	(k) 63	78
$M_L + I_M$	(k) 573	302
$M_u$ (Strength I)	(k) 1,329	1,033
$\phi_r M_n, \phi_r M_{nc}$	(k) 1,956	1,204
$f_s$ DC1	(ksi) 6.83	12.23
$f_s$ DC2	(ksi) 1.30	2.19
$f_s$ DW	(ksi) 2.16	3.63
$f_s$ 1.3(L+IM)	(ksi) 23.10	18.26
$f_s$ (Service II)	(ksi) 33.39	36.31
$V_r$	(k) 20.9	---

\* Compact section

	Abut.	Pier
$R_{DC1}$	(k) 16.2	51.3
$R_{DC2}$	(k) 3.7	11.0
$R_{DW}$	(k) 6.2	3.4
$R_L + I_M$	(k) 66.3	93.8
$R_{Total}$	(k) 92.4	174.5

$I_s, S_s$ : 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 (in<sup>4</sup> and in<sup>3</sup>).

$I_c(n), S_c(n)$ : 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) due to short-term composite live loads (in<sup>4</sup> and in<sup>3</sup>).

$I_c(3n), S_c(3n)$ : 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) due to long-term composite (superimposed) dead loads (in<sup>4</sup> and in<sup>3</sup>).

$Z$ : Plastic Section Modulus of the steel section in non-composite areas. Omit line in Moment Table if not used in design calculations (in<sup>3</sup>).

$DC1$ : 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.).

$M_L + I_M$ : Un-factored live load moment plus dynamic load allowance (impact) (kip-ft.).

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

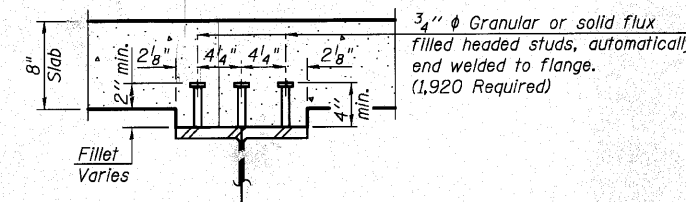
$\phi_r M_n$ : Compact composite positive moment capacity computed according to Article 6.10.7.1 (kip-ft.).

$\phi_r M_{nc}$ : Compact non-composite negative moment capacity computed according to Article A6.1.1 (kip-ft.).

$f_s$  (Service II): Sum of stresses as computed from the moments below (ksi).

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

$V_r$ : Maximum factored shear range in composite portion of span computed according to Article 6.10.10.



**SECTION A-A**

**NOTES:**

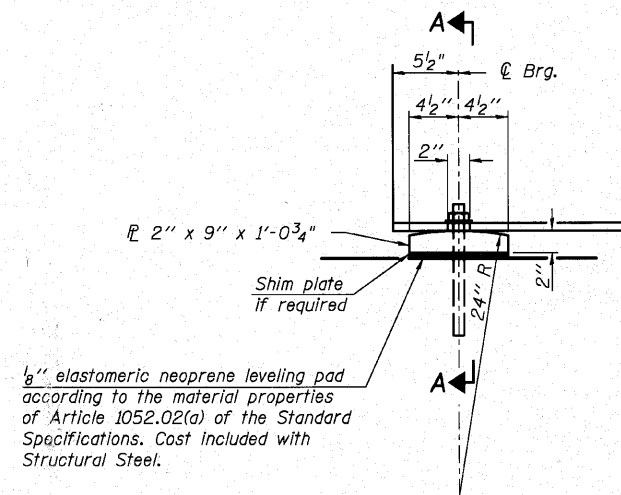
- All beams shall be W24x104 AASHTO M270 Grade 50W (NTR). All diaphragms and connecting angles shall be AASHTO M270 Grade 50W. All bearing plates shall be AASHTO M270 Grade 50W.
- All diaphragms shall be installed as steel is erected and secured with erection pins and bolts except as otherwise noted.
- Load carrying components designated "NTR" shall conform to the Supplemental Requirements for Notch Toughness, Zone 2.
- Anchor Bolts shall be ASTM F1554 all-thread (or an Engineer-approved alternate material) of the grade(s) and diameter(s) specified. ASTM A307 Grade C anchor bolts may be used in lieu of ASTM F1554 Grade 36 (Fy=36ksi). The corresponding specified grade of AASHTO M314 anchor bolts may be used in lieu of ASTM F1554.
- Drilled and set anchor bolts shall be installed according to Article 521.06 of the Standard Specifications.

**FRAMING PLAN & BEAM DETAILS**  
**STRUCTURE NO. 045-3020**

<b>WILLS BURKE KELSEY ASSOCIATES LTD.</b> 116 West Main Street, Suite 201 St. Charles, Illinois 60174 (630) 443-7755	SHEET NO. 13	F.A.U.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
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	CONTRACT NO. 63521					
FED. ROAD DIST. NO.		ILLINOIS	FED. AID PROJECT			

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 PLOT CREATION DATE = 12/19/2010

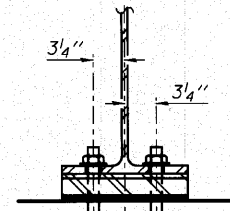
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**ELEVATION AT ABUTMENT**

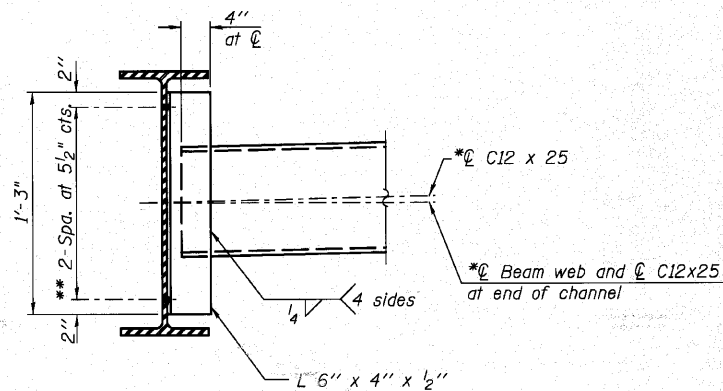
1/2" elastomeric neoprene leveling pad according to the material properties of Article 1052.02(a) of the Standard Specifications. Cost included with Structural Steel.

1"  $\phi$  x 12" anchor bolts with 2 1/4" x 2 1/4" x 5/16"  $\phi$  washer under nut. 1 3/8" x 2" slotted hole in flange. 1 1/2"  $\phi$  holes in bearing plate.



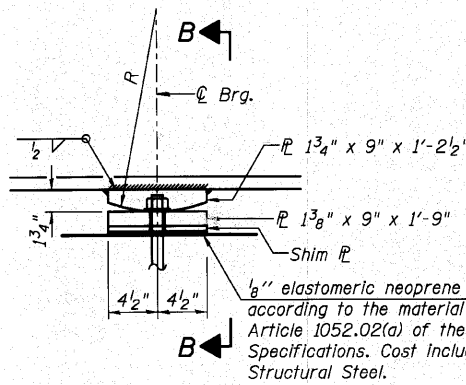
**SECTION A-A**

**FIXED BEARING**  
(10 Required)



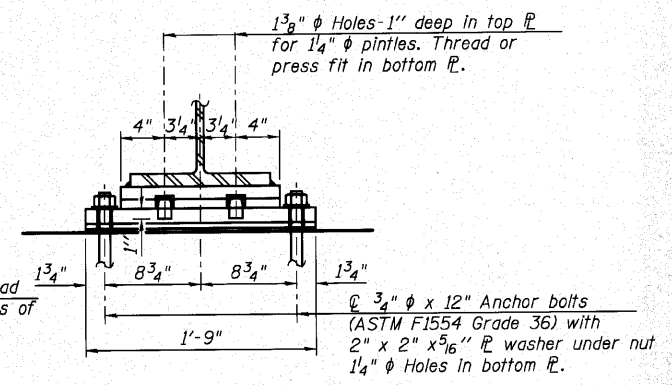
**INTERIOR DIAPHRAGM**  
(28 Required)

Note:  
Two hardened washers required for each set of oversized holes.  
\*C12x30 is 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

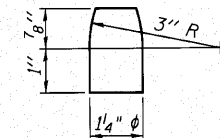


**ELEVATION AT PIER**

**FIXED BEARING**  
(5 Required)



**SECTION B-B**



**PINTLE**

NOTES:  
Anchor bolts shall be ASTM F1554 all-thread (or an Engineer-approved alternate material) of the grade(s) and diameter(s) specified. ASTM A307 Grade C anchor bolts may be used in lieu of ASTM F1554 Grade 36 (Fy=36ksi). 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.

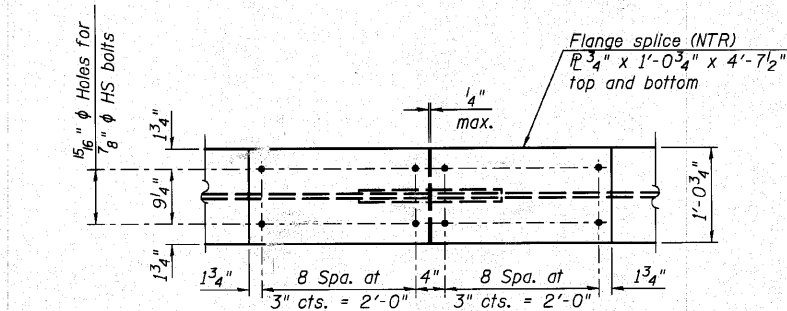
Drilled and set anchor bolts shall be installed according to Article 521.06 of the Standard Specifications.

Two 1/2 in. adjusting shims shall be provided for each bearing location in addition to all other plates or shims and placed as shown on bearing details.

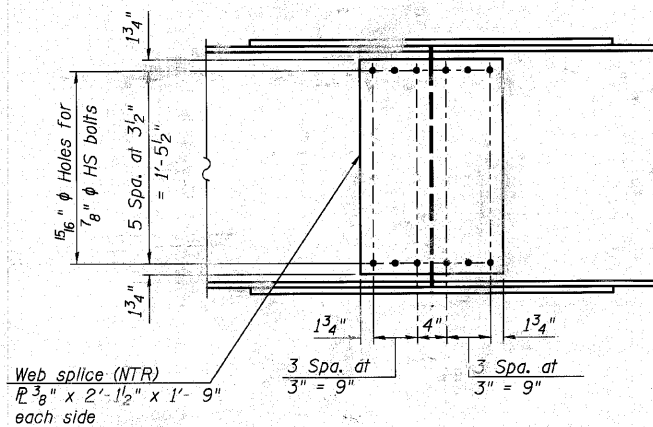
**BILL OF MATERIAL**

Item	Unit	Total
Anchor Bolts, 1"	Each	30

**STRUCTURAL STEEL DETAILS**  
**STRUCTURE NO. 045-3020**



**PLAN**



**ELEVATION**

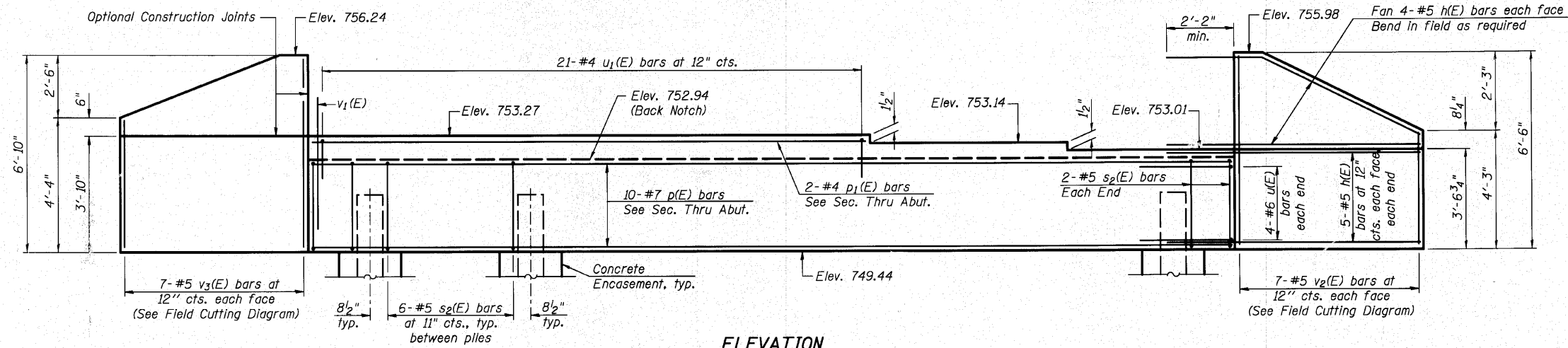
**FIELD SPLICE DETAIL**  
(5 Required)

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CHECKED - DLS
DRAWN - AWH
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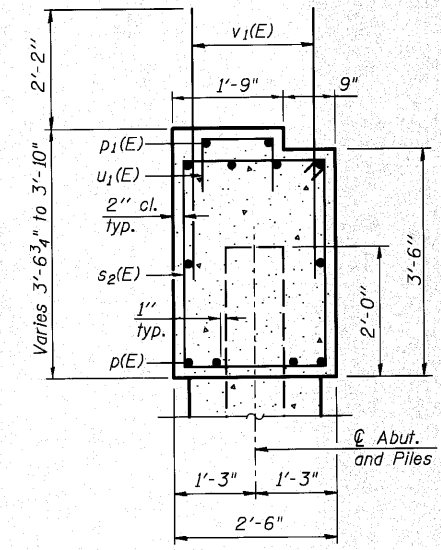
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SHEET NO. 14 21 SHEETS	F.A.U.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
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CONTRACT NO. 63521					
FED. ROAD DIST. NO.		ILLINOIS	FED. AID PROJECT		

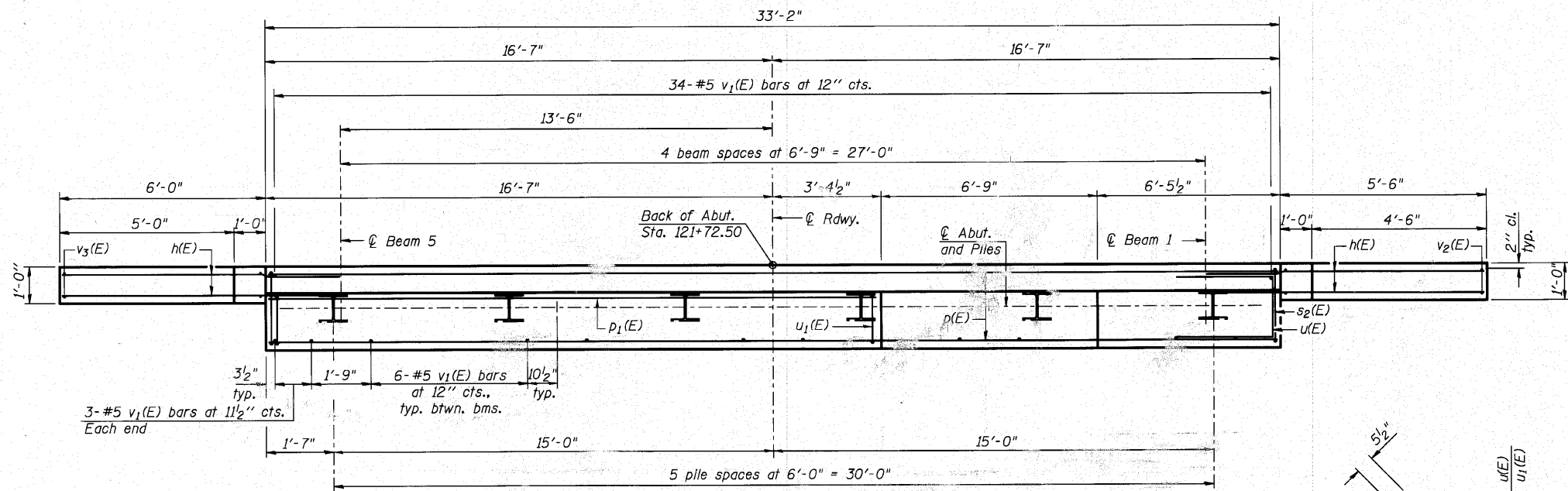
Notes:  
Pour steps monolithically with cap.



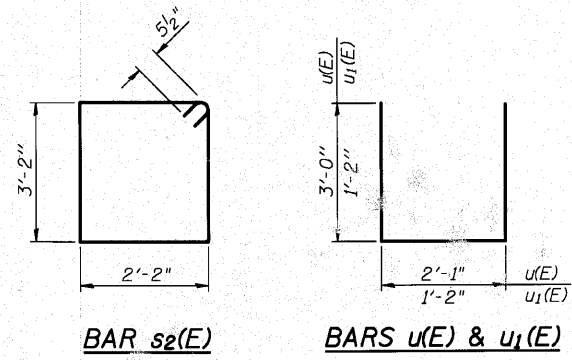
**ELEVATION**



**SEC. THRU ABUT.**



**PLAN**



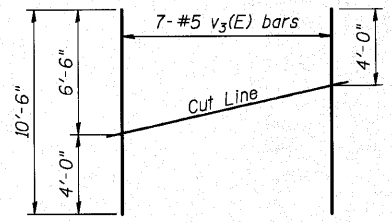
**BILL OF MATERIAL**

Bar	No.	Size	Length	Shape
h(E)	36	#5	8'-0"	—
p(E)	10	#7	32'-10"	—
p1(E)	2	#4	19'-7"	—
s2(E)	34	#5	11'-7"	□
u(E)	8	#6	8'-1"	—
u1(E)	21	#4	3'-6"	—
v1(E)	64	#5	4'-4"	—
v2(E)	7	#5	10'-1"	—
v3(E)	7	#5	10'-6"	—
Structure Excavation	Cu. Yd.		92	
Concrete Structures	Cu. Yd.		13.7	
Concrete Encasement	Cu. Yd.		2.1	
Reinforcement Bars, Epoxy Coated	Pound		1,990	
Furnishing Steel Piles, HP 12x53	Foot		125	
Driving Piles	Foot		125	
Test Pile Steel HP 12x53	Each		1	
Pile Shoes	Each		6	

For details of piles and Concrete Encasement, see sheet 18 of 21.

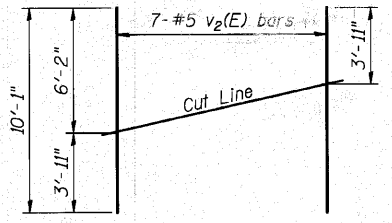
**PILE DATA**

Type: Steel HP 12x53 w/ Pile Shoes  
Nominal Required Bearing: 419  
Factored Resistance Available: 209  
Est. Length: 25'  
No. Production Piles: 5  
No. Test Piles: 1



**FIELD CUTTING DIAGRAM**

Order v3(E) bars full length. Cut as shown and use remainder of bars in opposite face.



**FIELD CUTTING DIAGRAM**

Order v2(E) bars full length. Cut as shown and use remainder of bars in opposite face.

DESIGNED	- AEU
CHECKED	- DLS
DRAWN	- AWH
CHECKED	- AEU

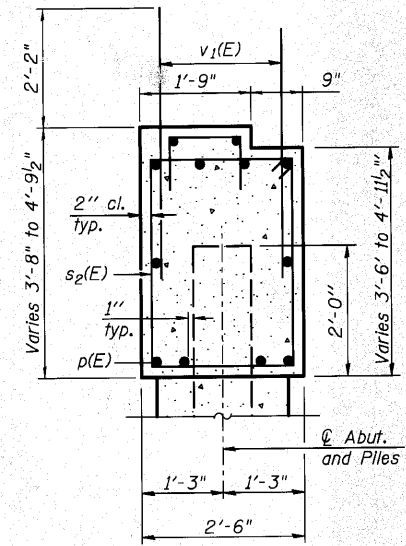
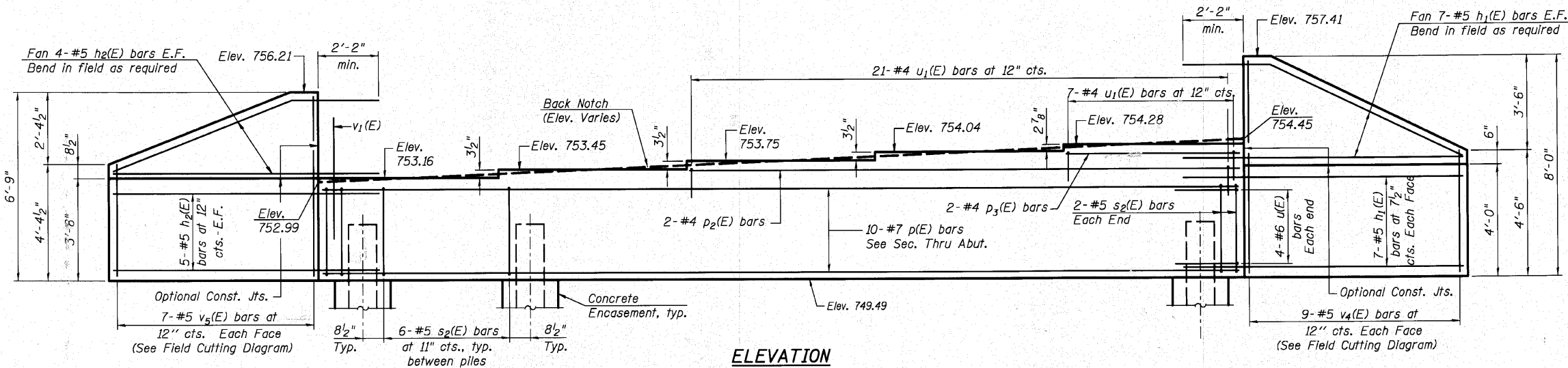
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SHEET NO. 15 21 SHEETS	F.A.U.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
	2332	03-14185-02-BR	KANE	73	39
CONTRACT NO. 63521					
FED. ROAD DIST. NO.		ILLINOIS	FED. AID PROJECT		

**WEST ABUTMENT DETAILS  
STRUCTURE NO. 045-3020**

FILE NAME = P:\CIBEL\WEST\Projects\045-3020\Drawings\Structural\Drawings\045-3020-015-1-Abutment.Dwg; Plot Date = 18/19/2018

Notes:  
Four steps monolithically with cap.



SEC. THRU ABUT.

BILL OF MATERIAL

Bar	No.	Size	Length	Shape
$h_1(E)$	28	#5	10'-0"	—
$h_2(E)$	18	#5	7'-9"	—
$p(E)$	10	#7	32'-10"	—
$p_2(E)$	2	#4	19'-8"	—
$p_3(E)$	2	#4	6'-2"	—
$s_2(E)$	34	#5	11'-7"	□
$u(E)$	8	#6	8'-1"	—
$u_1(E)$	28	#4	3'-6"	—
$v_1(E)$	64	#5	4'-4"	—
$v_4(E)$	9	#5	11'-10"	—
$v_5(E)$	7	#5	10'-5"	—
Structure Excavation	Cu. Yd.	94		
Concrete Structures	Cu. Yd.	15.9		
Concrete Encasement	Cu. Yd.	2.1		
Reinforcement Bars, Epoxy Coated	Pound	2,190		
Furnishing Steel Piles, HP 12x53	Foot	175		
Driving Piles	Foot	175		
Test Pile Steel, HP 12x53	Each	1		
Pile Shoes	Each	6		

For details of piles and Concrete Encasement, see Sheet 18 of 21.

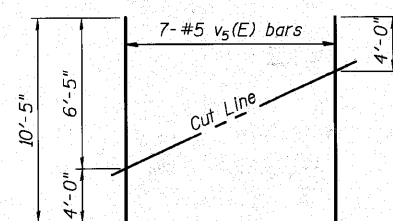
E.F. refers to each face.

EAST ABUTMENT DETAILS  
STRUCTURE NO. 045-3020

PILE DATA

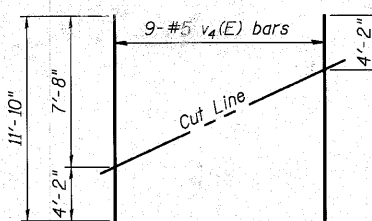
Type: HP 12x53 w/ Pile Shoes  
Nominal Required Bearing: 419 kips  
Factored Resistance Available: 209 kips  
Est. Length: 35'  
No. Production Piles: 5  
No. Test Piles: 1

DESIGNED - DLS
CHECKED - AEU
DRAWN - MLH
CHECKED - DLS



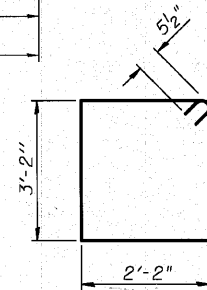
FIELD CUTTING DIAGRAM

Order  $v_5(E)$  full length. Cut as shown and use remainder of bars in opposite face.

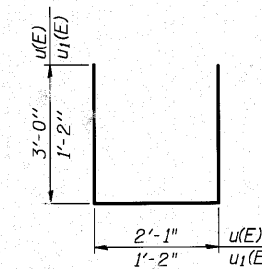


FIELD CUTTING DIAGRAM

Order  $v_4(E)$  full length. Cut as shown and use remainder of bars in opposite face.

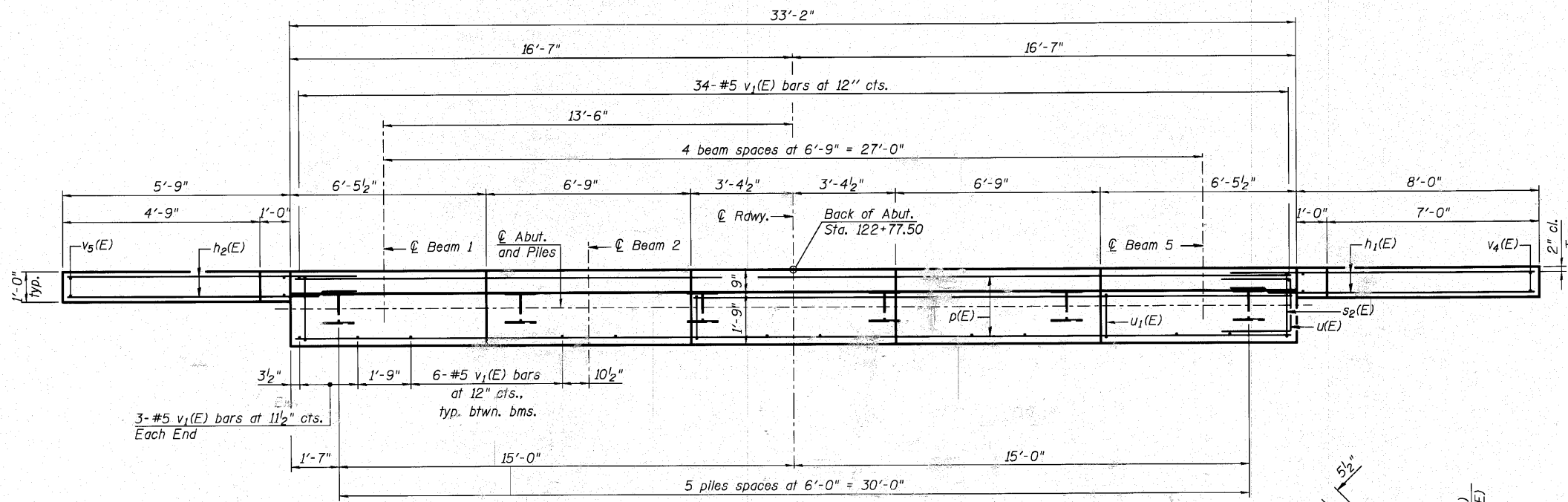


BAR  $s_2(E)$



BARS  $u(E)$  &  $u_1(E)$

PLAN



FILE NAME = P:\DIBEL WEST\Proj\045-3020\045-3020-02-01.dwg PLOT DATE = 18/19/2018

**WILLS BURKE KELSEY ASSOCIATES LTD.**  
116 West Main Street, Suite 201  
St. Charles, Illinois 60174  
(830) 443-7755

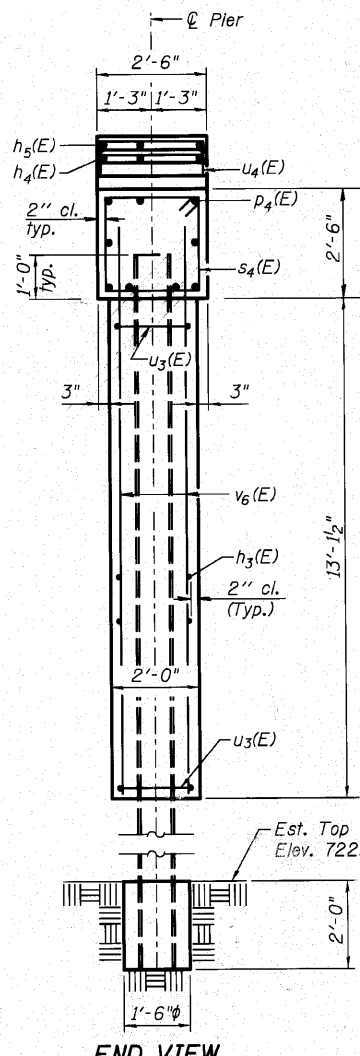
SHEET NO. 16 21 SHEETS	F.A.U.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
	2332	03-14185-02-BR	KANE	73	40
FED. ROAD DIST. NO.			ILLINOIS	FED. AID PROJECT	
CONTRACT NO. 63521					



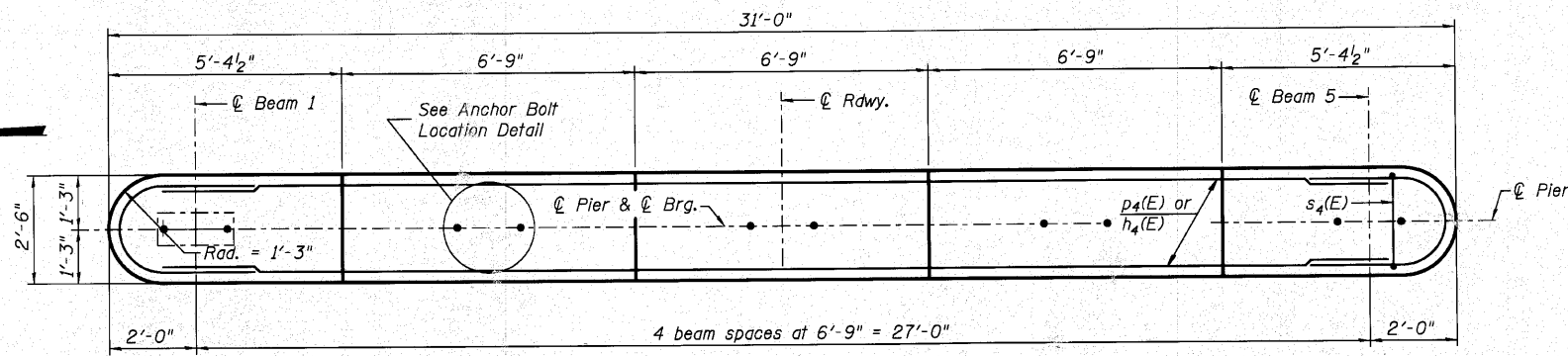
Notes:  
 Space reinforcement in cap to miss anchor bolts.  
 Pour steps monolithically with cap.  
 For details of piles, see sheet 18 of 21.

**PILE DATA**

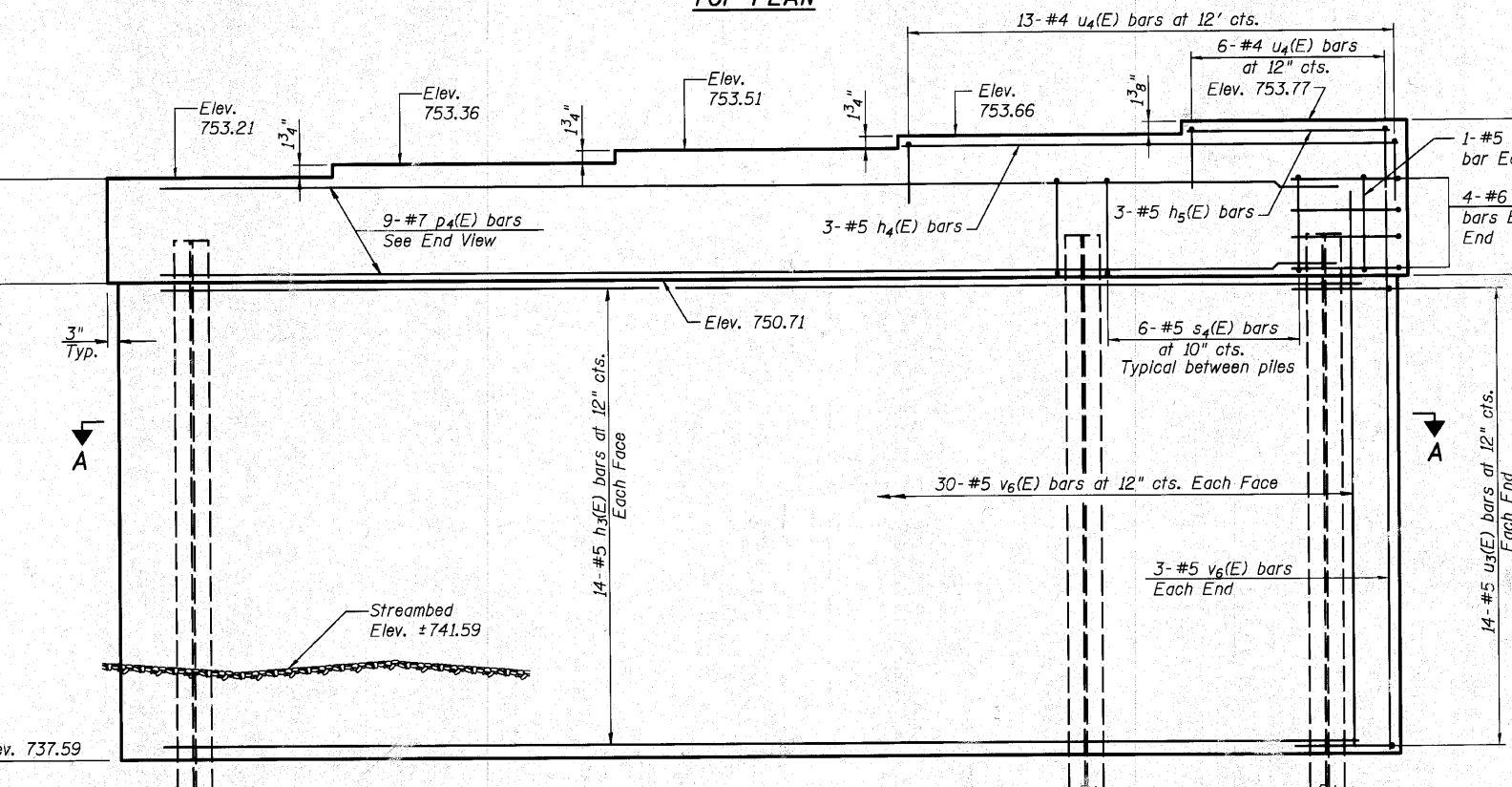
Type: Steel HP 14x73  
 Nominal Required Bearing: Set in Rock  
 Factored Resistance Available: 259 kips  
 Est. Length: 32'  
 No. Production Piles: 6  
 No. Test Piles: 0  
 Estimated Top of Rock: 722.00  
 Rock Socket Depth: 2'  
 Rock Socket Diameter: 1'-6"



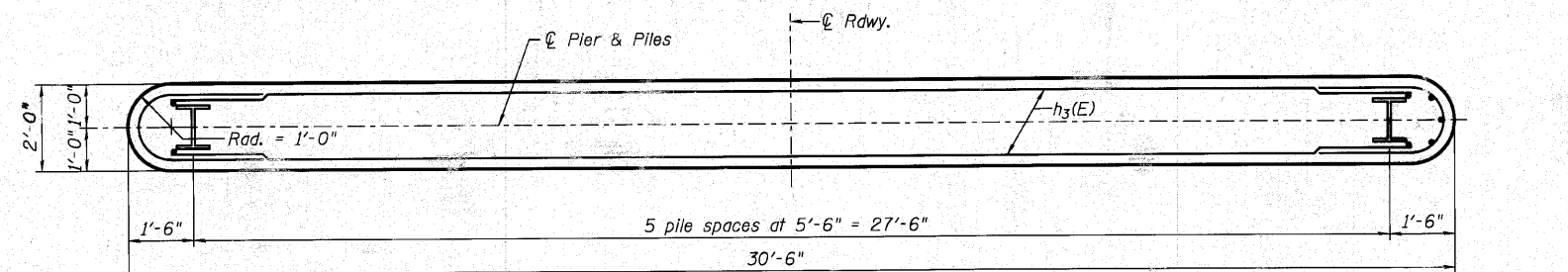
**END VIEW**



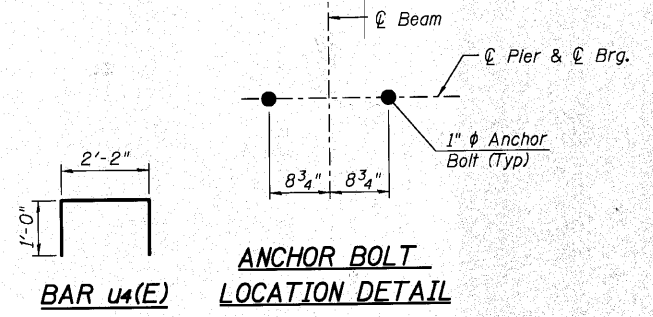
**TOP PLAN**



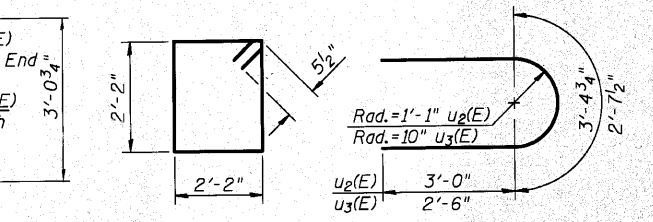
**ELEVATION**  
(Looking East)



**SECTION A-A**



**ANCHOR BOLT LOCATION DETAIL**



**BAR s4(E) BARS u2(E) & u3(E)**

**BILL OF MATERIAL**

Bar	No.	Size	Length	Shape
h3(E)	28	#5	28'-6"	—
h4(E)	3	#5	10'-8"	—
h5(E)	3	#5	4'-0"	—
p4(E)	8	#7	28'-6"	—
s4(E)	32	#5	9'-7"	□
u2(E)	8	#6	9'-5"	U
u3(E)	28	#5	7'-8"	U
u4(E)	19	#4	4'-2"	U
v6(E)	66	#5	15'-2"	—
Cofferdam Excavation		Cu. Yd.	58	
Cofferdam, Location 1		Each	1	
Concrete Structures		Cu. Yd.	36.4	
Seal Coat Concrete		Cu. Yd.	24.8	
Reinforcement Bars, Epoxy Coated		Pound	3,100	
Furnishing Steel Piles, HP 14x73		Foot	192	
Setting Piles in Rock		Each	6	

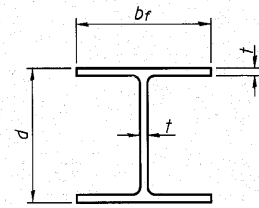
**PIER DETAILS**  
**STRUCTURE NO. 045-3020**

DESIGNED - AEU  
 CHECKED - DLS  
 DRAWN - AWH  
 CHECKED - AEU

**WILLS BURKE KELSEY ASSOCIATES LTD.**  
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 St. Charles, Illinois 60174  
 (630) 443-7755

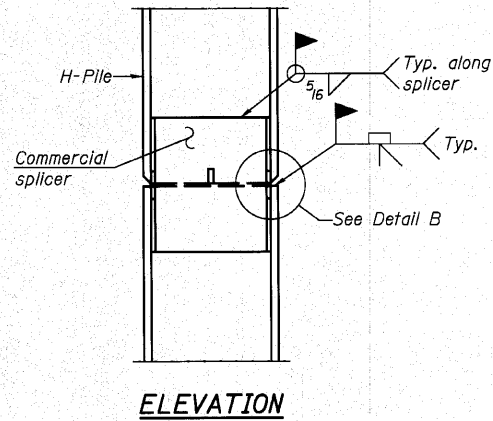
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	2332	03-14185-02-BR	KANE	73	41
FED. ROAD DIST. NO.			ILLINOIS	FED. AID PROJECT	
CONTRACT NO. 63521					

FILE NAME: P:\CIBEL WEST Projects\2009\045-3020\Drawings\045-3020-017-11-11.dwg

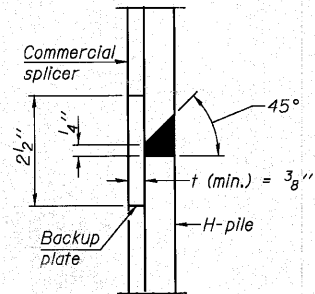


**STEEL PILE TABLE**

Designation	Depth d	Flange width br	Web and Flange thickness t	Encasement diameter A
HP 14x117	14 1/4"	14 7/8"	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 1/2"	12 1/4"	5/8"	24"
x63	12"	12 1/2"	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"	1/16"	24"
HP 8x36	8"	8 3/8"	7/16"	18"

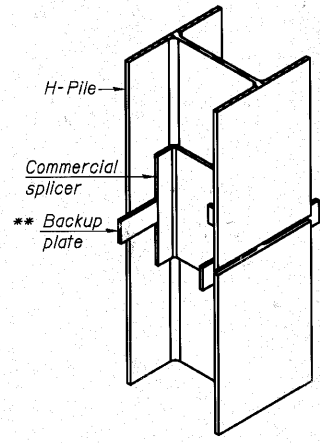


**ELEVATION**

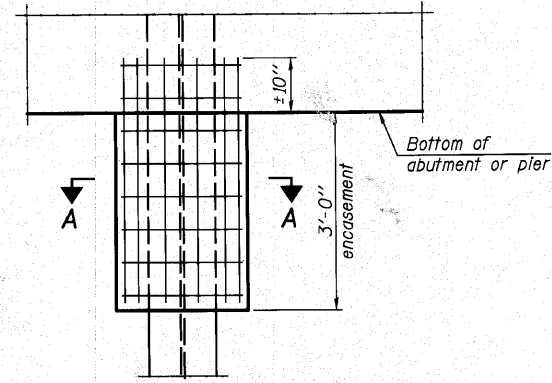


**DETAIL "B"**

**WELDED COMMERCIAL SPLICE**

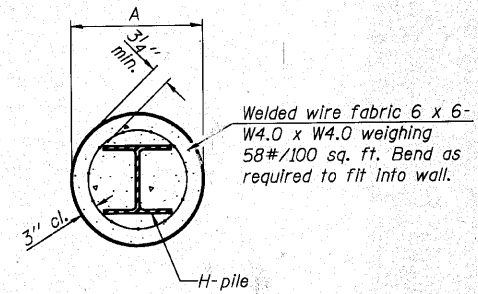


**ISOMETRIC VIEW**



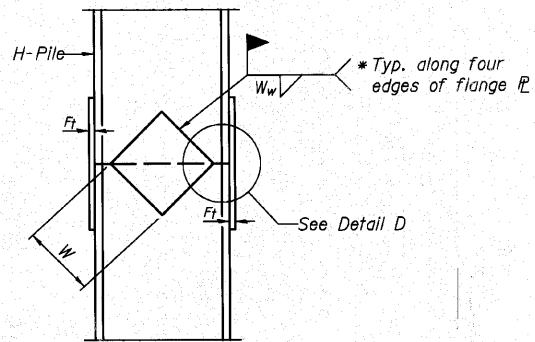
**ELEVATION**

**PILE ENCASEMENT**

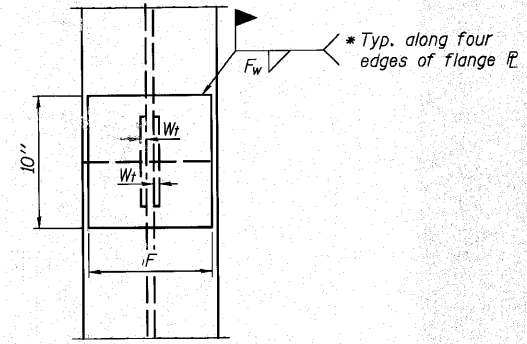


**SECTION A-A**

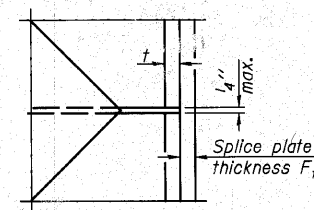
Note:  
Forms for encasement may be omitted when soil conditions permit.



**ELEVATION**



**END VIEW**



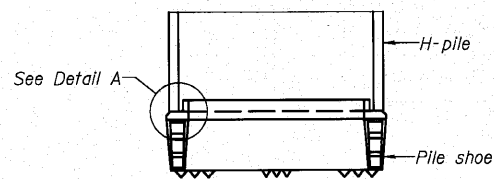
**DETAIL D**

**WELDED PLATE FIELD SPLICE**

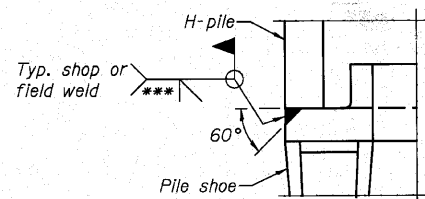
Designation	F	Ft	Fw	W	Wt	Ww
HP 14x117	12 1/2"	1"	7/8"	7 3/4"	5 1/8"	1/2"
x102	12 1/2"	7/8"	3/4"	7 3/4"	5 1/8"	1/2"
x89	12 1/2"	3/4"	1/16"	7 3/4"	5 1/8"	1/2"
x73	12 1/2"	5/8"	9/16"	7 3/4"	5 1/8"	1/2"
HP 12x84	10"	7/8"	1/16"	6 1/2"	5 1/8"	1/2"
x74	10"	7/8"	1/16"	6 1/2"	5 1/8"	1/2"
x63	10"	5/8"	1/2"	6 1/2"	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"

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

**HP PILE DETAILS  
STRUCTURE NO. 045-3020**

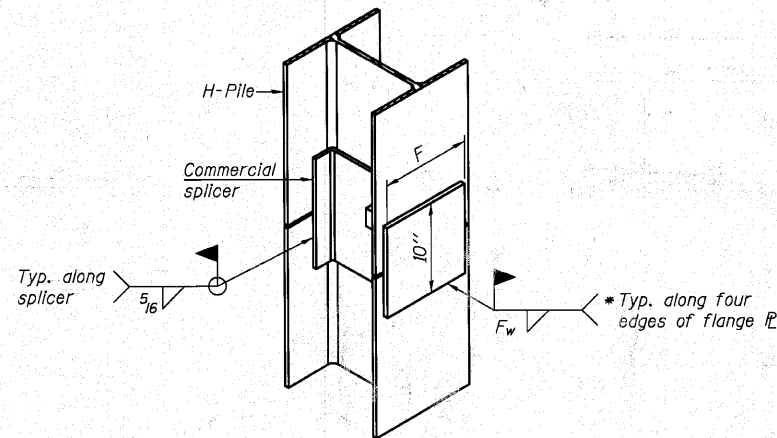


**ELEVATION**



**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.).

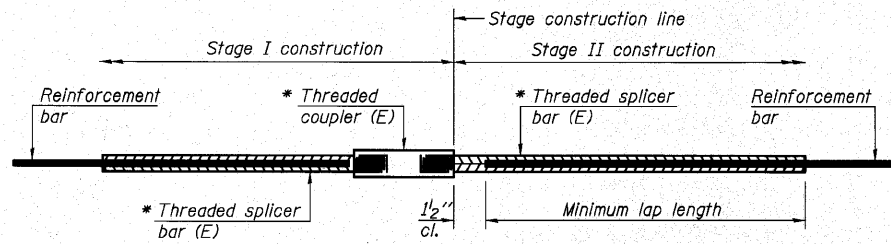
**WILLS BURKE KELSEY ASSOCIATES LTD.**  
116 West Main Street, Suite 201  
St. Charles, Illinois 60174  
(630) 443-7755

SHEET NO. 18 21 SHEETS	F.A.U.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
	2332	03-14185-02-BR	KANE	73	42
CONTRACT NO. 63521					
FED. ROAD DIST. NO.		ILLINOIS		FED. AID PROJECT	

DESIGNED - AEU
CHECKED - DS
DRAWN - AWH
CHECKED - AEU

F-HP 11-1-09

FILE NAME = P:\CORREL WEST Projects\2009\045-3020-01\045-3020-01-HP-Pile-Details.dgn PLOT CREATION DATE = 10/19/2010



**STANDARD BAR SPLICER ASSEMBLY**

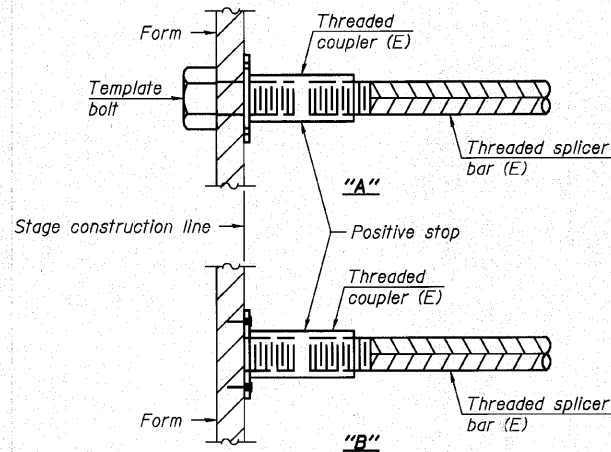
Minimum Lap Lengths				
Bar size to be spliced	Table 1	Table 2	Table 3	Table 4
3, 4	1'-5"	1'-11"	2'-1"	2'-4"
5	1'-9"	2'-5"	2'-7"	2'-11"
6	2'-1"	2'-11"	3'-1"	3'-6"
7	2'-9"	3'-10"	4'-2"	4'-8"
8	3'-8"	5'-1"	5'-5"	6'-2"
9	4'-7"	6'-5"	6'-10"	7'-9"

- 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

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

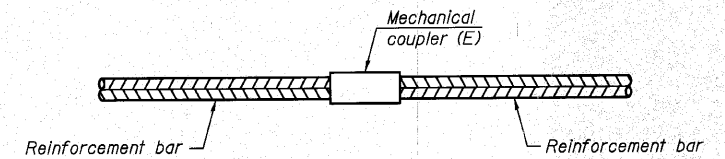
\* Epoxy not required on Bar Splicer Assembly components used in conjunction with black bars.

Location	Bar size	No. assemblies required	Table for minimum lap length



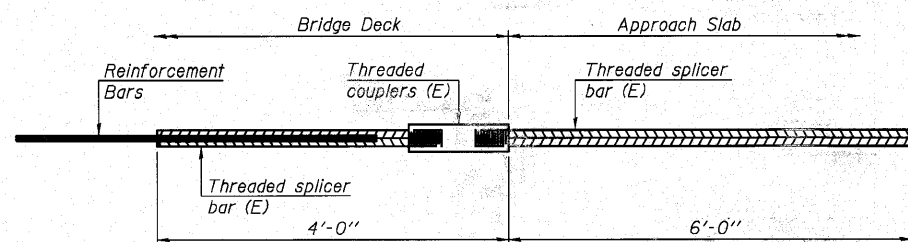
**INSTALLATION AND SETTING METHODS**

- "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.



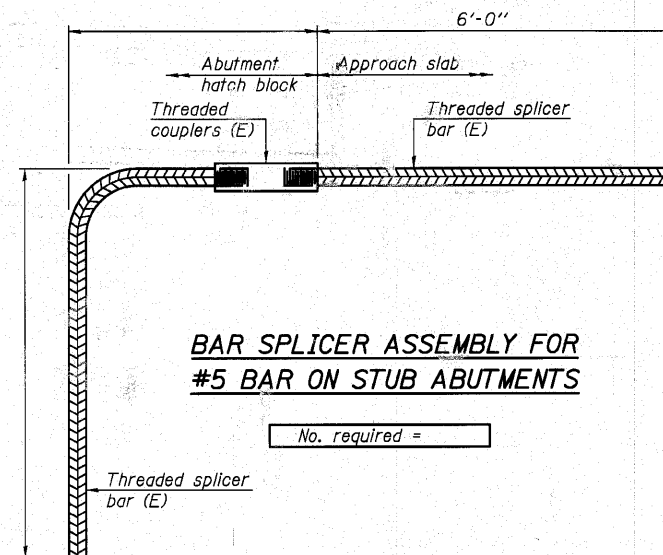
**STANDARD MECHANICAL SPLICER**

Location	Bar size	No. assemblies required



**BAR SPLICER ASSEMBLY FOR #5 BAR ON INTEGRAL OR SEMI-INTEGRAL ABUTMENTS**

No. required = 72



**BAR SPLICER ASSEMBLY FOR #5 BAR ON STUB ABUTMENTS**

No. required =

**NOTES**

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

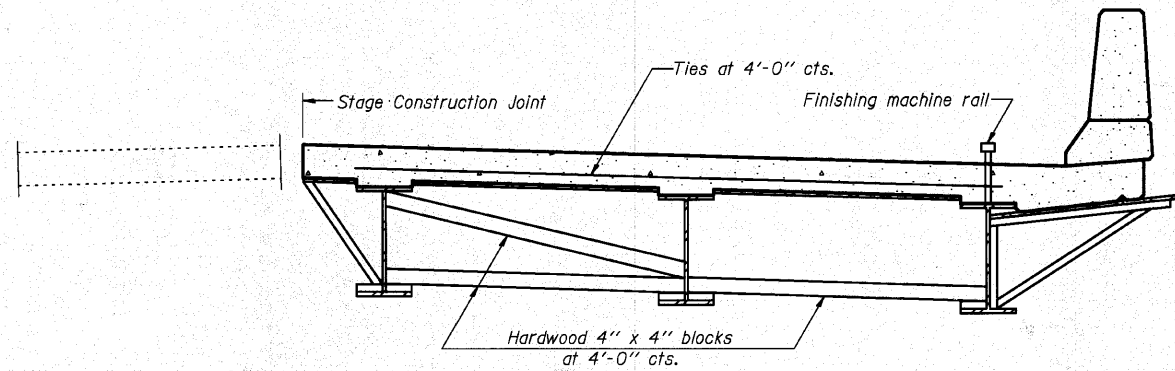
**BAR SPLICER ASSEMBLY AND MECHANICAL SPLICER DETAILS  
STRUCTURE NO. 045-3020**

DESIGNED - AEU  
CHECKED - DLS  
DRAWN - AWH  
CHECKED - AEU

BSD-1 11-1-09

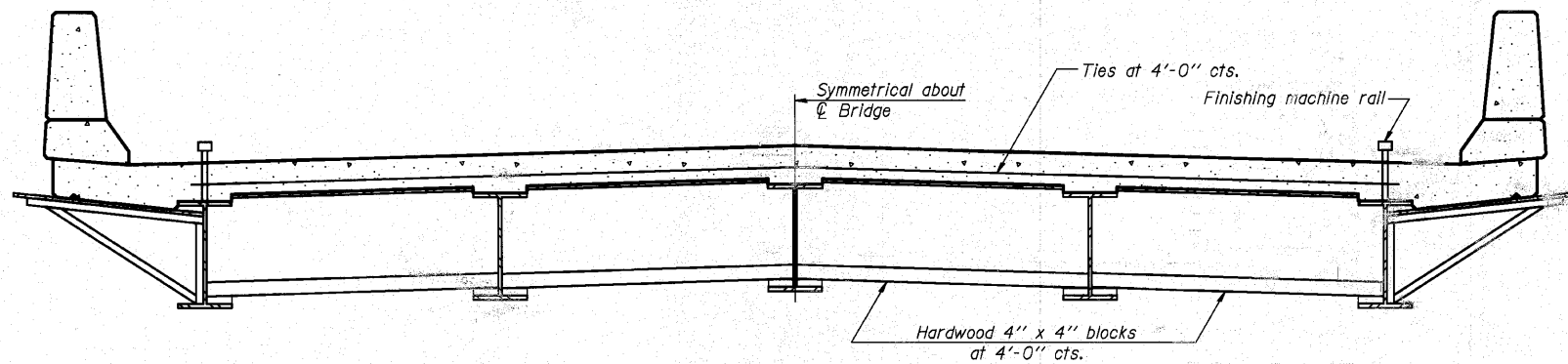
**WILLS BURKE KELSEY ASSOCIATES LTD.**  
116 West Main Street, Suite 201  
St. Charles, Illinois 60174  
(630) 443-7755

SHEET NO. 19 21 SHEETS	F.A.U.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
	2332	03-14185-02-BR	KANE	73	43
CONTRACT NO. 63521					
FED. ROAD DIST. NO.		ILLINOIS	FED. AID PROJECT		



**FORM BRACES FOR  
STAGE CONSTRUCTION**

When cantilever forming brackets are used, the work shall be done according to Article 503.06(b) of the Standard Specifications, except as modified below and in the details shown on this sheet.  
The finishing machine rails shall be placed on the top flange of the exterior beams.  
The beams or girders, supporting cantilever forming brackets, shall be tied together at 4 foot intervals.  
For Standard construction, or Stage Construction the Hardwood bracing materials shall be placed as shown between webs of beams in each bay.



**FORM BRACES FOR  
STANDARD CONSTRUCTION**

**CANTILEVER FORMING BRACKETS  
FOR SUPERSTRUCTURES WITH  
W27 BEAMS AND SMALLER  
STRUCTURE NO. 045-3020**

DESIGNED - AEU
CHECKED - DLS
DRAWN - AWH
CHECKED - AEU

**WBK**  
WILLS BURKE KELSEY ASSOCIATES LTD.  
116 West Main Street, Suite 201  
St. Charles, Illinois 60174  
(630) 443-7755

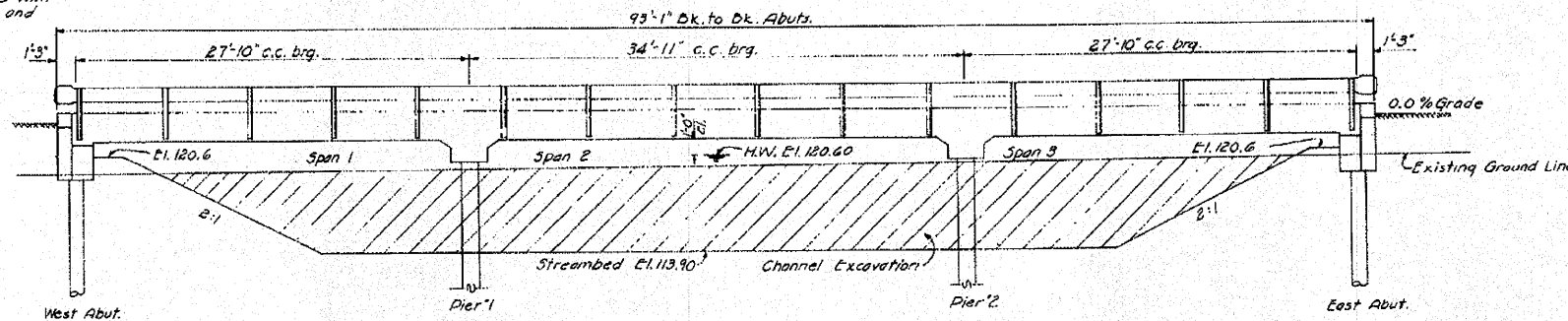
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	2332	03-14185-02-BR	KANE	73	44
CONTRACT NO. 63521					
FED. ROAD DIST. NO.		ILLINOIS	FED. AID PROJECT		





B.M. Top N.E. Cor. W. Abut.  
Left Sta. 124+34 E.L. 124.01.  
Existing Structure: Pony  
Truss, one span of 35.5' with  
closed concrete abuts. and  
wingwalls.  
To be removed by the  
Contractor after new  
bridge is constructed.  
No salvage.

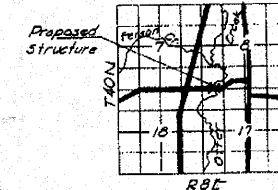
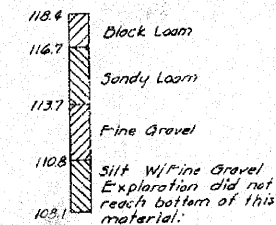
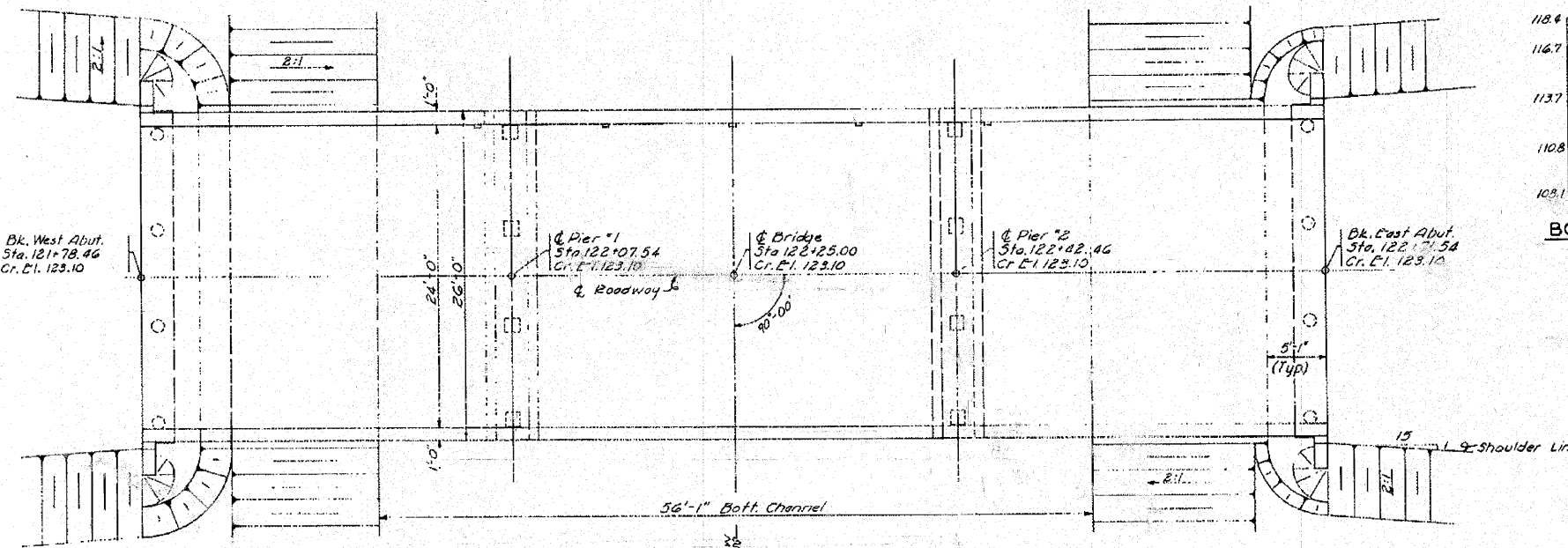
STATE	COUNTY	SECTION	TOTAL SHEETS	SHEET NO.
73	KANE	185B-MFT	7	5



**GENERAL NOTES**

Class X Concrete shall be used throughout.  
The concrete floor slab shall be finished in accordance with  
article 51.19 of the S.D. Specs.  
The curbs shall be poured monolithically with the slab.  
All metal handrail and posts shall receive one shop coat  
of red lead paint and two field coats of aluminum paint.  
Each handrail shall have a curved metal section of each  
end.  
The Contractor shall drive two (2) test piles. One timber  
test pile shall be driven as directed by the engineer before  
ordering the remainder of the timber piles. One concrete test  
pile shall be driven in a permanent location before casting  
the remainder of the piles.  
Pier piles shall have a minimum penetration of 15'  
below streambed.  
For item Channel Excavation see sheets no 3&4

**ELEVATION**  
Scale 3/16" = 1'-0"



**BORING DATA**

**LOCATION SKETCH**

**TOTAL BILL OF MATERIAL**

Item	Super	Sub	Total
Class X Concrete	Cu. Yds. 119.2	13.7	132.9
Reinforcement Bars	Lbs. 27,750	1,390	29,140
Metal Plate Bridge Rail	Lin. Ft. 180	-	180
Precast Concrete Piles (14")	Lin. Ft. -	175	175
Grouted Piles	Lin. Ft. -	160	160
Test Piles (Concrete)	Ea. -	1	1
Test Piles (Timber)	Ea. -	1	1
Name Plates	Ea. 1	-	1
Removal of Existing Structures	Ea. -	-	-
Channel Excavation	Cu. Yds. -	-	2622

**WATERWAY DATA**

Drainage Area 29,280 Acres  
Required Opening 450 Sq. Ft.  
Present Opening 179 Sq. Ft.  
Proposed Opening 450 Sq. Ft.

**DESIGN STRESSES**

$f_s = 20,000$  psi Reinf.  
 $f_c = 1400$  psi  
 $n = 10$

**PLAN**  
Scale 3/16" = 1'-0"

STATION 122+25.00  
OTTER CREEK  
BUILT 1959 BY  
KANE COUNTY  
SEC. 185-B-M.F.T.  
LOADING H15-312

**LETTERING FOR NAME PLATE**  
See Std. 2113

**GENERAL PLAN & ELEVATION  
CORYN BRIDGE  
SEC. 185 B- MFT  
STA. 122+25.00  
S.A. ROUTE 73  
KANE COUNTY**

**HANSON, COLLINS & RICE  
CONSULTING ENGINEERS**

DESIGNED V.F.S. CHECKED R.D.C.  
DRAWN A.C.E. DATE 2-24-59

LOADING H15-312-44

SHEET 1 OF 3

**FOR REFERENCE ONLY**

FILE NAME = P:\CIBBEL WEST Projects\20879\05-2082 Bolam Plot\Civil\Drawings\KANE\KANE\KANE.dwg

**WILLS BURKE KELSEY ASSOCIATES LTD.**  
110 West Main Street, Suite 201  
St. Charles, Illinois 60174

USER NAME = #USER#	DESIGNED -	REVISED -
	DRAWN -	REVISED -
PLOT SCALE =	CHECKED -	REVISED -
PLOT DATE = 10/21/2010	DATE - 10/22/10	REVISED -

**STATE OF ILLINOIS  
DEPARTMENT OF TRANSPORTATION**

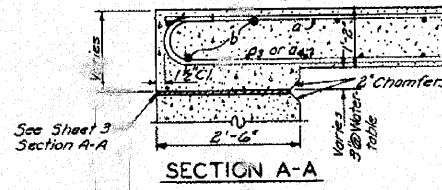
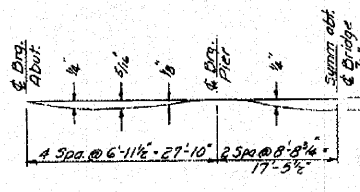
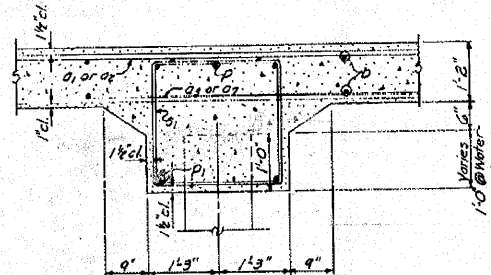
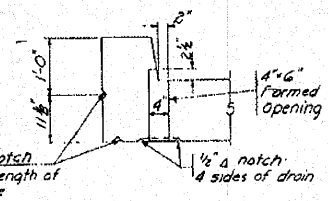
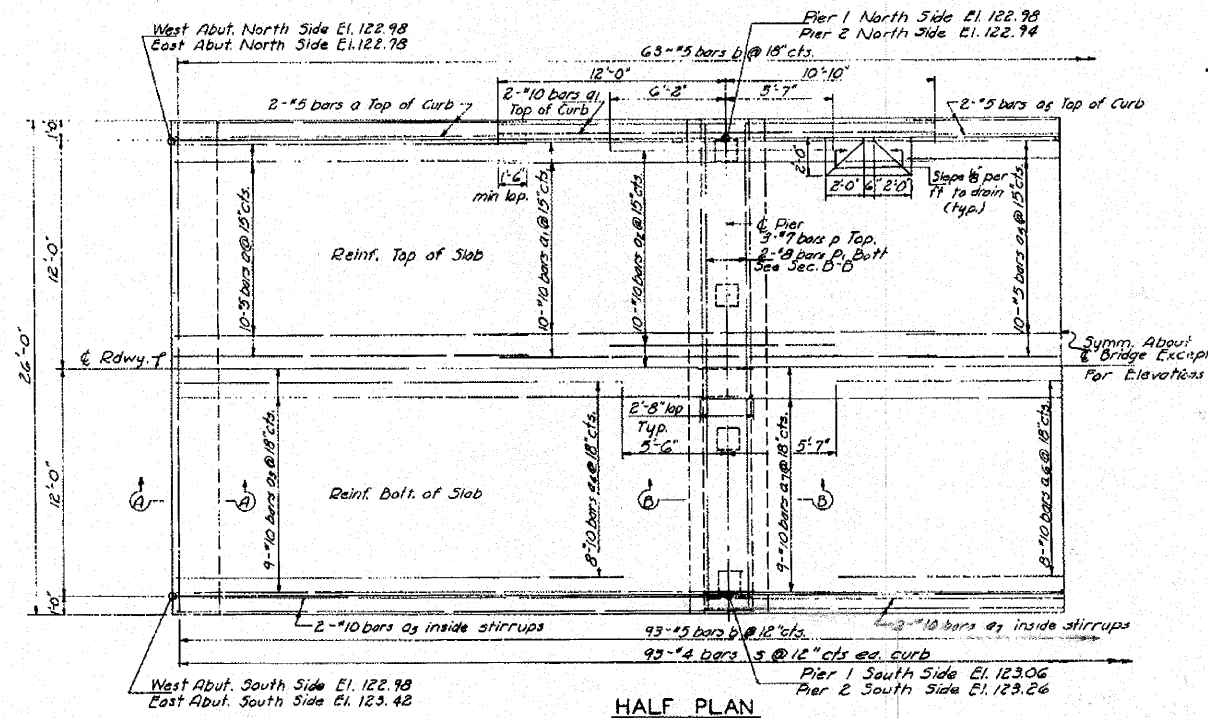
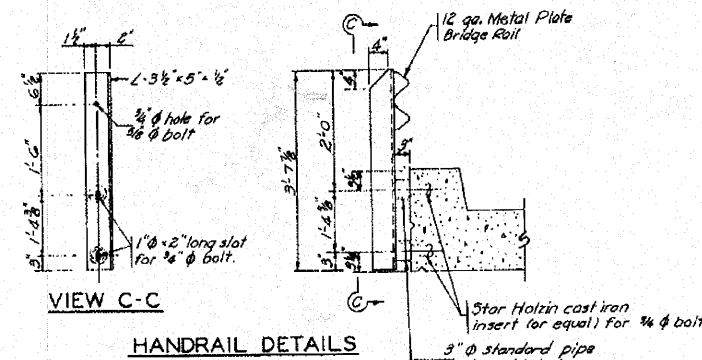
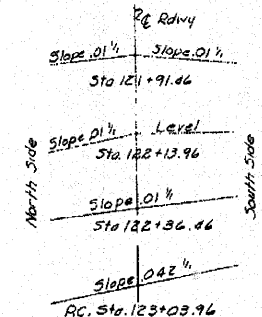
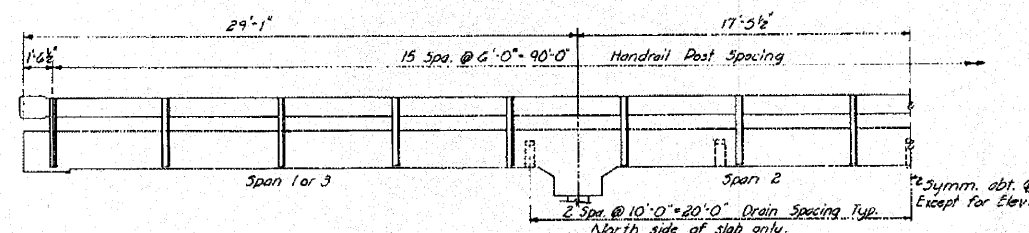
**EXISTING STRUCTURE PLANS  
FOR REFERENCE ONLY**

SCALE: SHEET NO. 46 OF 73 SHEETS STA. TO STA.

F.A. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
2332	03-14185-02-BR	KANE	73	46

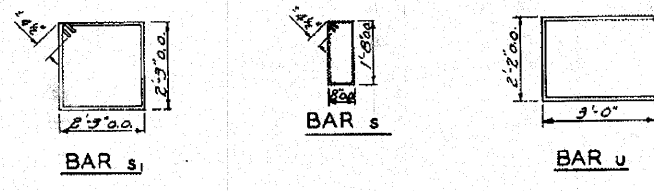
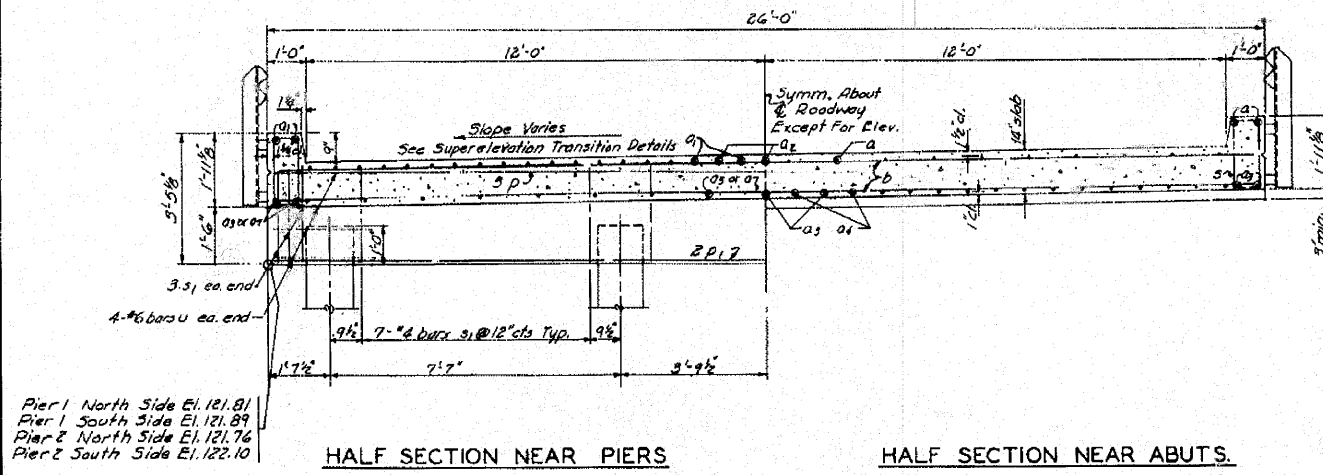
CONTRACT NO. 63521  
FED. ROAD DIST. NO. 1 [ILLINOIS] FED. AID PROJECT

STATE AID ROUTE NO.	COUNTY	SECTION	TOTAL SHEETS	SHEET NO.
73	KANE	185B-MFT	7	47



**BILL OF MATERIAL SUPERSTRUCTURE & PIERS**

Bar	No.	Size	Length	Shape
a	46	#5	10'-6"	
a1	46	#10	22'-10"	
a2	40	#10	11'-9"	
a3	42	#10	30'-4"	
a4	32	#10	24'-11"	
a5	23	#5	12'-5"	
a6	16	#10	23'-9"	
a7	21	#10	37'-7"	
b	156	#5	25'-8"	
d	6	#7	25'-8"	
p	4	#8	25'-8"	
s	186	#4	5'-5"	□
s1	54	#4	9'-9"	□
u	16	#6	8'-8"	□
Class X Concrete			Cu. Yds	119.2
Reinforcement Bars			Lbs	27,750
Metal Plate Bridge Rail Lin.P.			Lbs	180
Precast Concrete Piles			Lin.Ft.	175
Test Piles (Concrete)			Ca	1



**PILE DATA**  
 Type: 14" Precast Concrete  
 No.: 8"  
 Capacity: 34-Ton  
 Est. Length: 25'  
 (See sheet 5 for details of the conc. piles)  
 Includes one test pile

**SLAB CORYN BRIDGE SEC. 185 B-MFT STA. 122+2500 S.A. ROUTE 73 KANE COUNTY**  
**HANSON, COLLINS & RICE CONSULTING ENGINEERS**  
 DRAWN: V.F.S. CHECKED: R.D.C.  
 DATE: 2-24-59 M.D. 58-64  
 SHEET 2 OF 3

**FOR REFERENCE ONLY**

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	DATE - 10/22/10	REVISED -

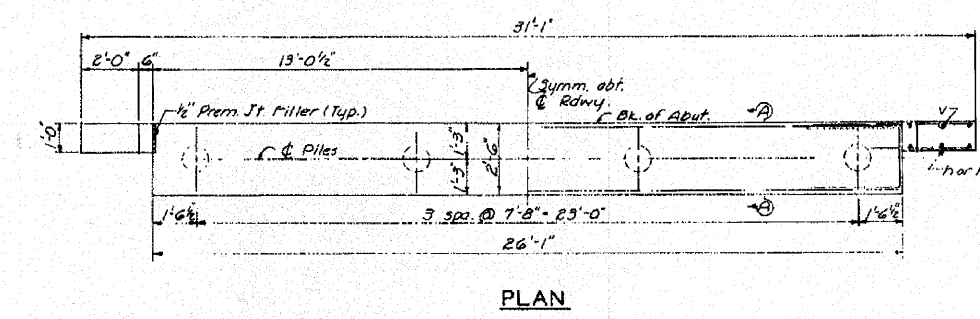
**STATE OF ILLINOIS DEPARTMENT OF TRANSPORTATION**

<b>EXISTING STRUCTURE PLANS FOR REFERENCE ONLY</b>	
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SHEET NO. 47 OF 73 SHEETS	STA. TO STA.

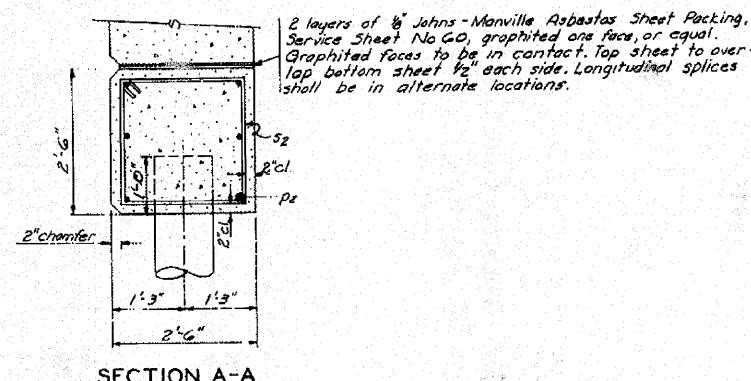
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FED. ROAD DIST. NO. 1 ILLINOIS FED. AID PROJECT			CONTRACT NO. 63521	



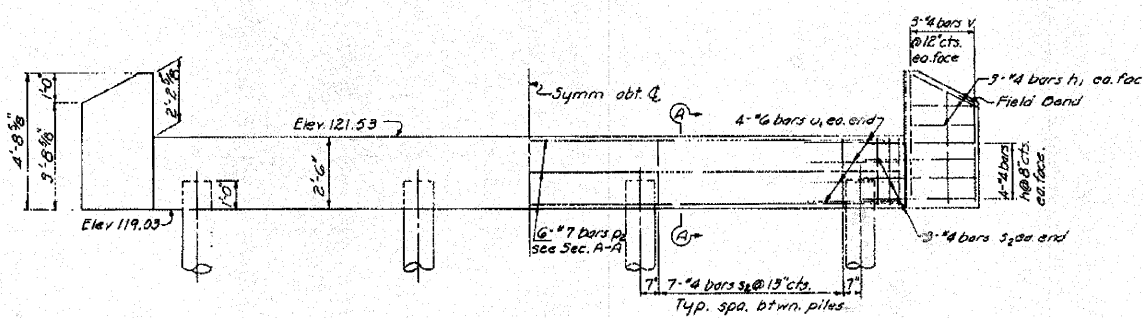
STATE AID PROJECT NO.	COUNTY	SECTION	SHEET NO.	TOTAL SHEETS
73	KANE	185B-MFT	7	7



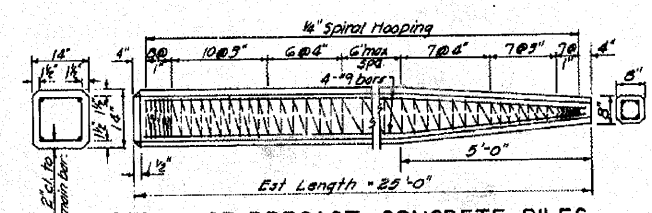
PLAN



SECTION A-A

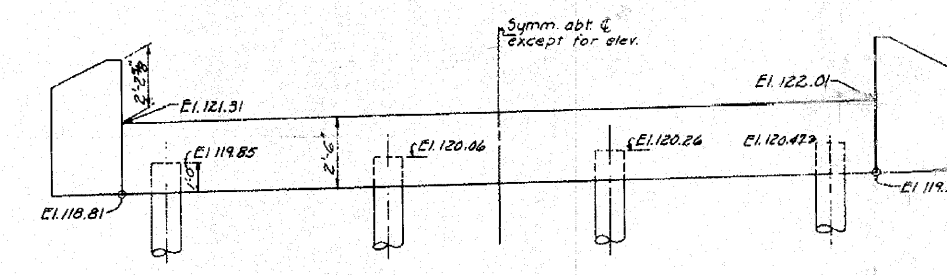


ELEVATION WEST ABUTMENT

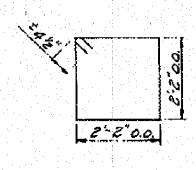


DETAIL OF PRECAST CONCRETE PILES

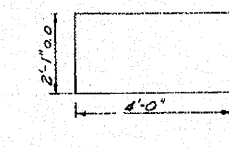
Note to Contractor:  
 For pile lengths up to 45' use two slings placed at a distance of 0.21L from each end. On piles longer than 45' use three slings placed at 0.12L from each end and at mid-point of pile.



ELEVATION EAST ABUTMENT



BAR s2



BAR u1

BILL OF MATERIAL-ABUTMENTS

Bar	No	Size	Length	Shape
h	32	#4	9'-9"	
h1	24	#4	8'-9"	
P2	12	#7	25'-9"	
s2	36	#4	9'-5"	□
u1	16	#6	10'-1"	□
v	24	#4	4'-0"	
Class X Concrete		Cu Yds	13.7	
Reinforcement Bars		Lbs	1390	
Creosoted Piles		Lin.Ft	160	
Test Piles		Eq.	1	

PILE DATA

Type	Creosoted
No. Req'd	8
Min Capacity	19 Ton
Est. Length	20'

ABUTMENTS  
 CORYN BRIDGE  
 SEC. 185 B- MFT  
 STA. 122+25.00  
 S.A. ROUTE 73  
 KANE COUNTY

HANSON, COLLINS & RICE  
 CONSULTING ENGINEERS

DESIGNED: V.F.S. CHECKED: R.O.C.  
 DRAWN: A.F.F. DATE: 2-24-59 No. B-58-44

SHEET 3 OF 3

FOR REFERENCE ONLY

FILE NAME = P:\CIBBEL WEST Projects\2009\01-0882\_Balcom Phil\Civil\Ngn\Sheet\KANE\MFT\03.dgn

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 110 West Main Street, Suite 201  
 St. Charles, Illinois 60174

USER NAME = *USER*	DESIGNED -	REVISED -
	DRAWN -	REVISED -
PLOT SCALE =	CHECKED -	REVISED -
PLOT DATE = 10/21/2010	DATE = 10/22/10	REVISED -

STATE OF ILLINOIS  
 DEPARTMENT OF TRANSPORTATION

EXISTING STRUCTURE PLANS FOR REFERENCE ONLY	
SCALE:	SHEET NO. 48 OF 73 SHEETS STA. TO STA.

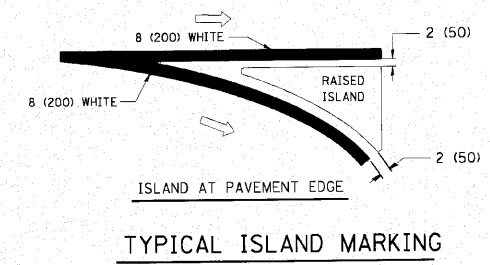
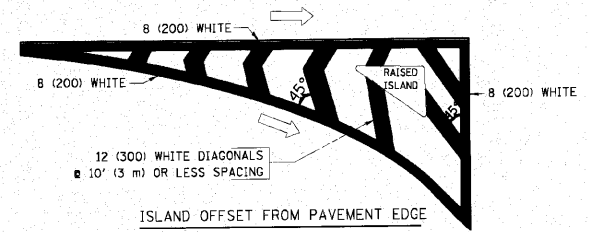
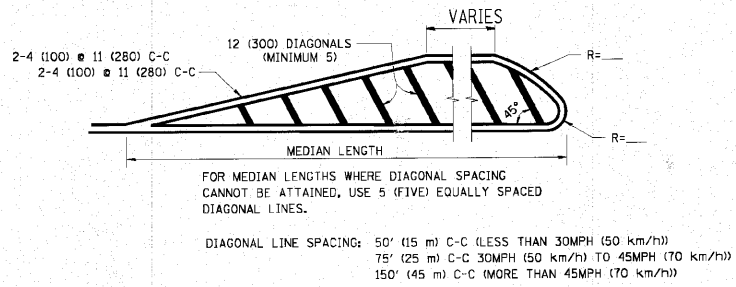
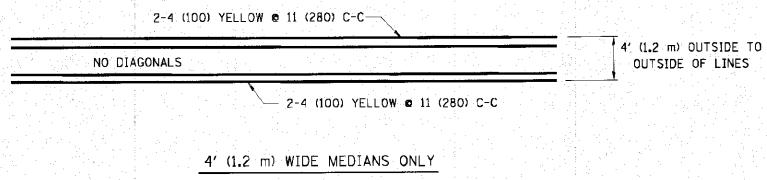
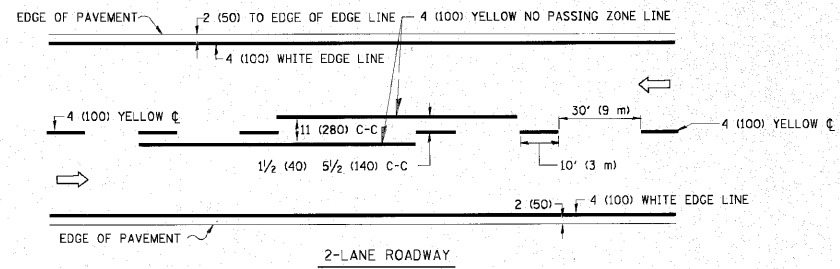
F.A. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
2332	03-14185-02-BR	KANE	73	48
CONTRACT NO. 63521				
FED. ROAD DIST. NO. 1 ILLINOIS FED. AID PROJECT				



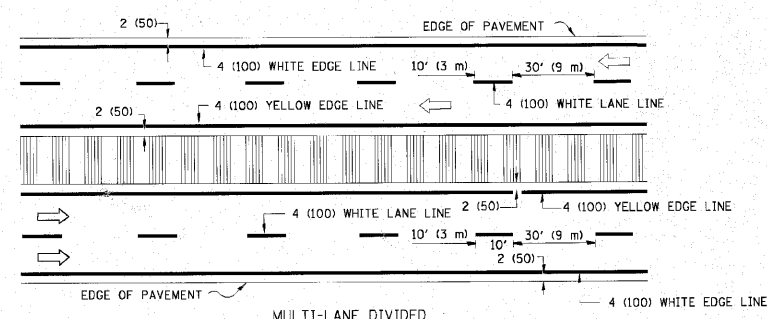
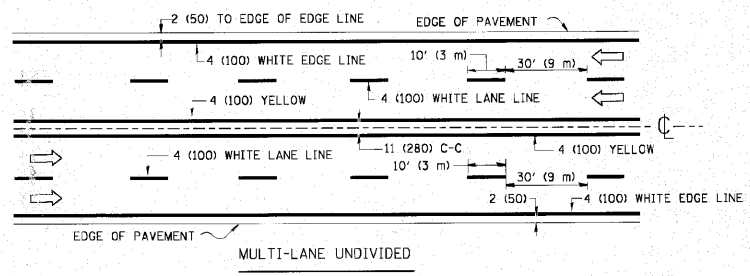






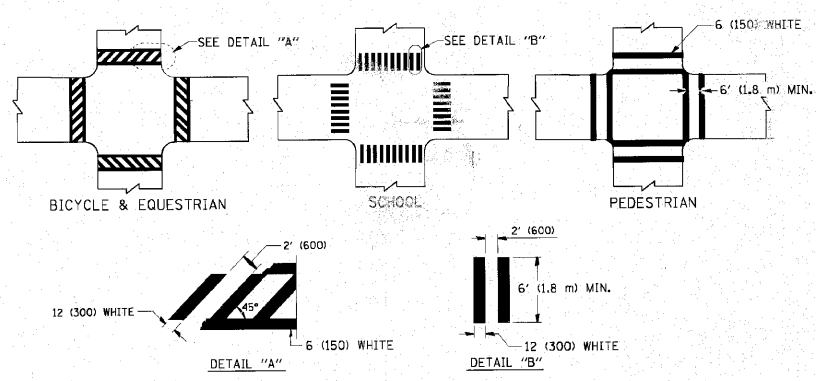


TYPICAL ISLAND MARKING

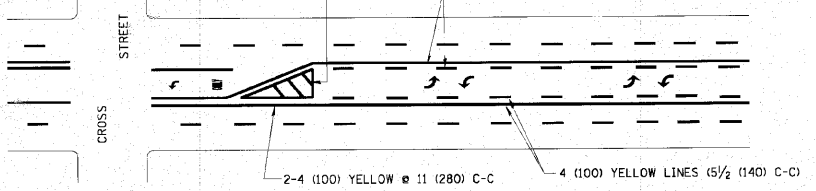


NOTE: MEDIANS WITH BARRIER CURB DO NOT REQUIRE AN EDGE LINE

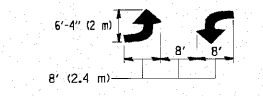
TYPICAL LANE AND EDGE LINE MARKING



TYPICAL CROSSWALK MARKING

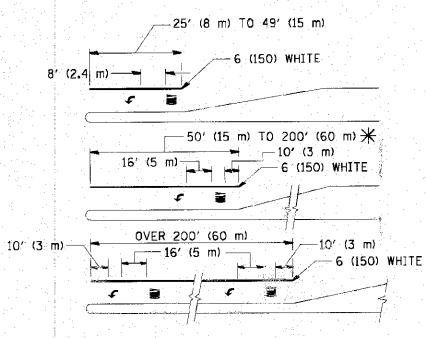


A MINIMUM OF TWO PAIRS OF TURN ARROWS SHALL BE USED, WHITE IN COLOR. ADDITIONAL PAIRS SHALL BE PLACED AT 200' (60 m) TO 300' (90 m) INTERVALS.



MEDIAN WITH TWO-WAY LEFT TURN LANE

TYPICAL PAINTED MEDIAN MARKING



FULL SIZE LETTERS 8" (2.4 m) AND ARROWS SHALL BE USED.  
\* AREA = 15.6 SQ. FT. (1.5 m<sup>2</sup>) ONLY AREA = 20.8 SQ. FT. (1.9 m<sup>2</sup>)  
\* TURN LANES IN EXCESS OF 400' (120 m) IN LENGTH MAY HAVE AN ADDITIONAL SET OF ARROW - "ONLY" INSTALLED MIDWAY BETWEEN THE OTHER TWO SETS OF ARROW - "ONLY".

TYPICAL LEFT (OR RIGHT) TURN LANE

TYPICAL TURN LANE MARKING

TYPE OF MARKING	WIDTH OF LINE	PATTERN	COLOR	SPACING / REMARKS
CENTERLINE ON 2 LANE PAVEMENT	4 (100)	SKIP-DASH	YELLOW	10' (3 m) LINE WITH 30' (9 m) SPACE
CENTERLINE ON MULTI-LANE UNDIVIDED PAVEMENT	2 @ 4 (100)	SOLID	YELLOW	11 (280) C-C
NO PASSING ZONE LINES: FOR ONE DIRECTION FOR BOTH DIRECTIONS	4 (100) 2 @ 4 (100)	SOLID SOLID	YELLOW YELLOW	5 1/2 (140) C-C FROM SKIP-DASH CENTERLINE 11 (280) C-C OMIT SKIP-DASH CENTERLINE BETWEEN
LANE LINES	4 (100) 5 (125) ON FREEWAYS	SKIP-DASH SKIP-DASH	WHITE WHITE	10' (3 m) LINE WITH 30' (9 m) SPACE
DOTTED LINES (EXTENSIONS OF CENTER, LANE OR TURN LANE MARKINGS)	SAME AS LINE BEING EXTENDED	SKIP-DASH	SAME AS LINE BEING EXTENDED	2' (600) LINE WITH 6' (1.8 m) SPACE
EDGE LINES	4 (100)	SOLID	YELLOW-LEFT WHITE-RIGHT	OUTLINE MOUNTABLE MEDIANS IN YELLOW; EDGE LINES ARE NOT USED NEXT TO BARRIER CURB
TURN LANE MARKINGS	6 (150) LINE; FULL SIZE LETTERS & SYMBOLS (8" (2.4m))	SOLID	WHITE	SEE TYPICAL TURN LANE MARKING DETAIL
TWO WAY LEFT TURN MARKING	2 @ 4 (100) EACH DIRECTION 8' (2.4m) LEFT ARROW	SKIP-DASH AND SOLID IN PAIRS	YELLOW WHITE	10' (3 m) LINE WITH 30' (9 m) SPACE FOR SKIP-DASH; 5 1/2 (140) C-C BETWEEN SOLID LINE AND SKIP-DASH LINE SEE TYPICAL TWO-WAY LEFT TURN MARKING DETAIL
CROSSWALK LINES (PEDESTRIAN) A. DIAGONALS (BIKE & EQUESTRIAN) B. LONGITUDINAL BARS (SCHOOL)	2 @ 6 (150) 12 (300) @ 45° 12 (300) @ 90°	SOLID SOLID SOLID	WHITE WHITE WHITE	NOT LESS THAN 6' (1.8 m) APART 2' (600) APART 2' (600) APART SEE TYPICAL CROSSWALK MARKING DETAILS.
STOP LINES	24 (600)	SOLID	WHITE	PLACE 4' (1.2 m) IN ADVANCE OF AND PARALLEL TO CROSSWALK, IF PRESENT. OTHERWISE, PLACE AT DESIRED STOPPING POINT, PARALLEL TO CROSSROAD CENTERLINE, WHERE POSSIBLE
PAINTED MEDIANS	2 @ 4 (100) WITH 12 (300) DIAGONALS @ 45° NO DIAGONALS USED FOR 4' (1.2 m) WIDE MEDIANS	SOLID	YELLOW; TWO WAY TRAFFIC WHITE; ONE WAY TRAFFIC	11 (280) C-C FOR THE DOUBLE LINE SEE TYPICAL PAINTED MEDIAN MARKING.
GORE MARKING AND CHANNELIZING LINES	8 (200) WITH 12 (300) DIAGONALS @ 45°	SOLID	WHITE	DIAGONALS: 15' (4.5 m) C-C (LESS THAN 30MPH (50 km/h)) 20' (6 m) C-C 30MPH (50 km/h) TO 45MPH (70 km/h) 30' (9 m) C-C (OVER 45MPH (70 km/h))
RAILROAD CROSSING	24 (600) TRANSVERSE LINES; "RR" 15 6" (1.8 m) LETTERS; 16 (400) LINE FOR "X"	SOLID	WHITE	SEE STATE STANDARD 780001 AREA OF: "R"=3.6 SQ. FT. (0.33 m <sup>2</sup> ) EACH "X"=54.0 SQ. FT. (5.0 m <sup>2</sup> )
SHOULDER DIAGONALS	12 (300) @ 45°	SOLID	WHITE - RIGHT YELLOW - LEFT	50' (15 m) C-C (LESS THAN 30MPH (50 km/h)) 75' (25 m) C-C (30 MPH (50 km/h) TO 45MPH (70 km/h)) 150' (45 m) C-C (OVER 45MPH (70 km/h))

FOR FURTHER DETAILS ON PAVEMENT MARKING REFER TO STANDARD SPECIFICATIONS FOR ROAD AND BRIDGE CONSTRUCTION AND STATE STANDARD 780001.

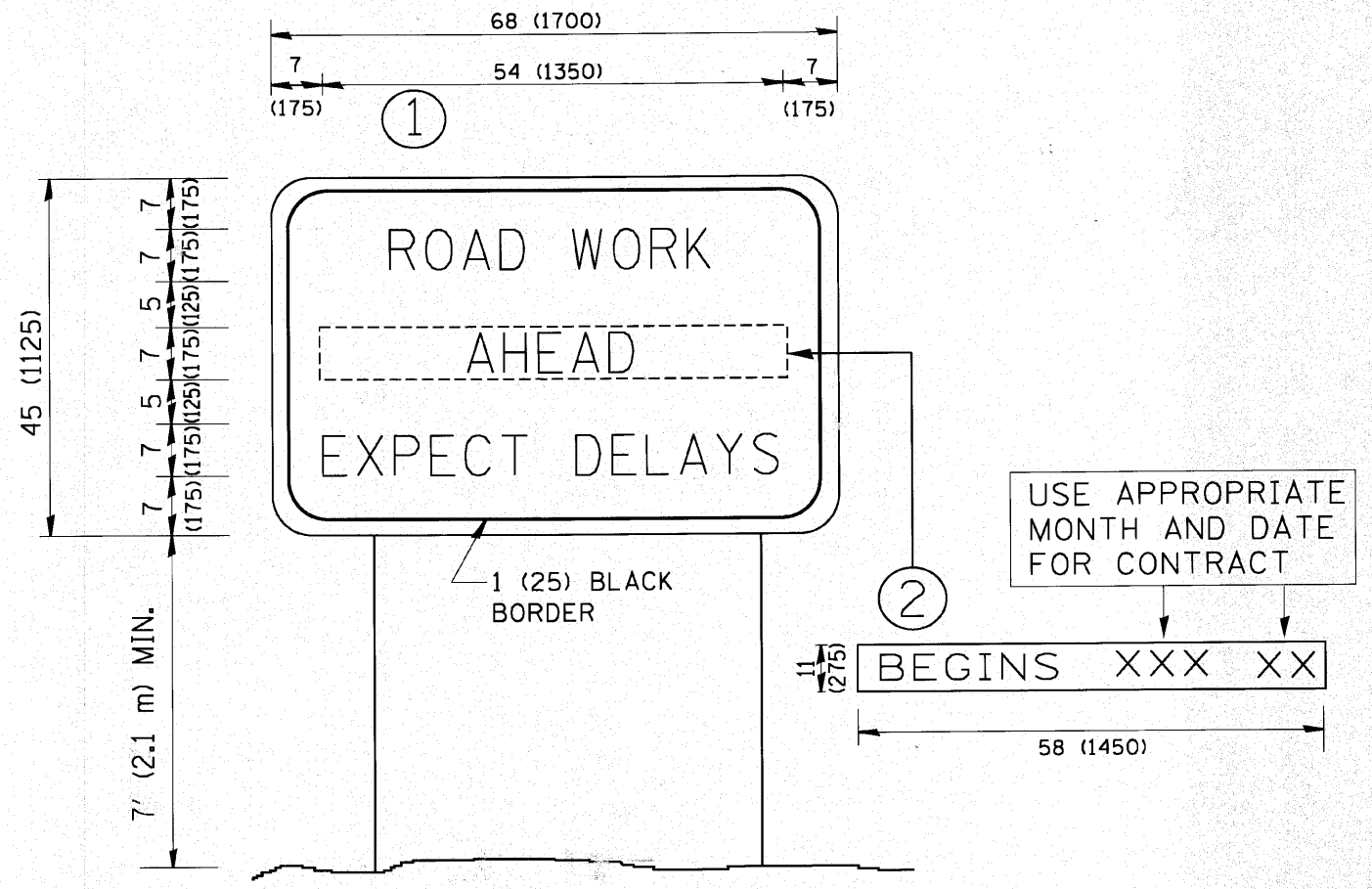
All dimensions are in inches (millimeters) unless otherwise shown.

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		DRAWN -	REVISED - C. JUCIUS 09-09-09	TYPICAL PAVEMENT MARKINGS		TC-13	CONTRACT NO. 63521		
		CHECKED -	REVISED -	SCALE: NONE	SHEET NO. 51 OF 73 SHEETS	STA. -	TO STA.		
		DATE - 03-19-90	REVISED -	FED. ROAD DIST. NO. 1 (ILLINOIS) FED. AID PROJECT					

STATE OF ILLINOIS  
DEPARTMENT OF TRANSPORTATION





**NOTES:**

1. USE BLACK LETTERING ON ORANGE BACKGROUND.
2. ERECT SIGNS IN ADVANCE OF THE LOCATION FOR THE "ROAD CONSTRUCTION AHEAD" SIGN AT LOCATIONS AS DIRECTED BY THE ENGINEER.
3. ERECT SIGN ① WITH INSTALLED PANEL ② ONE WEEK PRIOR TO THE START OF CONSTRUCTION.
4. REMOVE PANEL ② SOON AFTER THE START OF CONSTRUCTION.
5. SEE SPECIAL PROVISION FOR "TEMPORARY INFORMATION SIGNING" FOR ADDITIONAL INFORMATION.
6. ONE SIGN ASSEMBLY EQUALS 25.70 SQ. FT. (2.3 SQ. M.)
7. SHALL BE PAID FOR AS TEMPORARY INFORMATION SIGNING.

ALL DIMENSIONS ARE IN INCHES (MILLIMETERS) UNLESS OTHERWISE SHOWN.

FILE NAME = P:\CIBREL - WEST - Project\2009\10-08-09-0802 - Balaam - PH11-Civil\Drawings\Sheet\01-TC22.dgn

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	PLOT SCALE = 50.000' / IN.	DRAWN -	REVISED - R. MIRS 12-11-97		2332	03-14185-02-BR	KANE	73	52		
PLOT DATE = 10/21/2010	CHECKED -	REVISED - T. RAMMACHER 02-02-99	REVISED - C. JUCLUS 01-31-07	SCALE: NONE	SHEET NO. 52 OF 73 SHEETS	STA.	TO STA.	TC-22 CONTRACT NO.63521 FED. ROAD DIST. NO. 1 ILLINOIS FED. AID PROJECT			

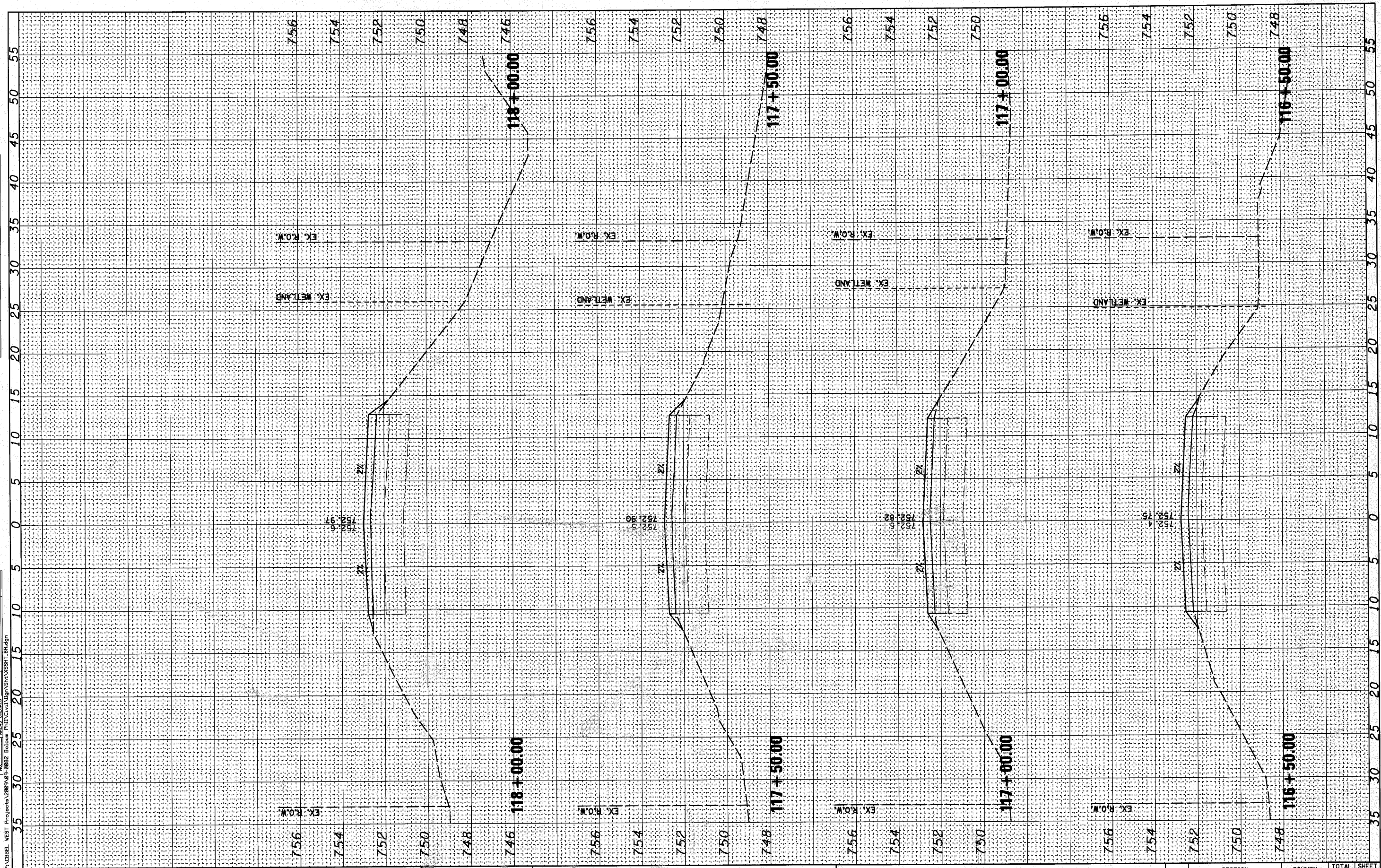




FINAL SURVEY	BY	DATE
PLOTTED		
NOTE BOOK		
AREAS CHECKED		
NO.		

ORIGINAL SURVEY	BY	DATE
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NOTE BOOK		
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 St. Charles, Illinois 62274

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PLOT DATE = 10/21/2010	CHECKED -	REVISED -
	DATE = 10/22/10	REVISED -

**STATE OF ILLINOIS  
DEPARTMENT OF TRANSPORTATION**

**CROSS SECTIONS  
BOLCUM ROAD**

SCALE: SHEET NO. OF 73 SHEETS STA. 116+50.00 TO STA. 118+00.00

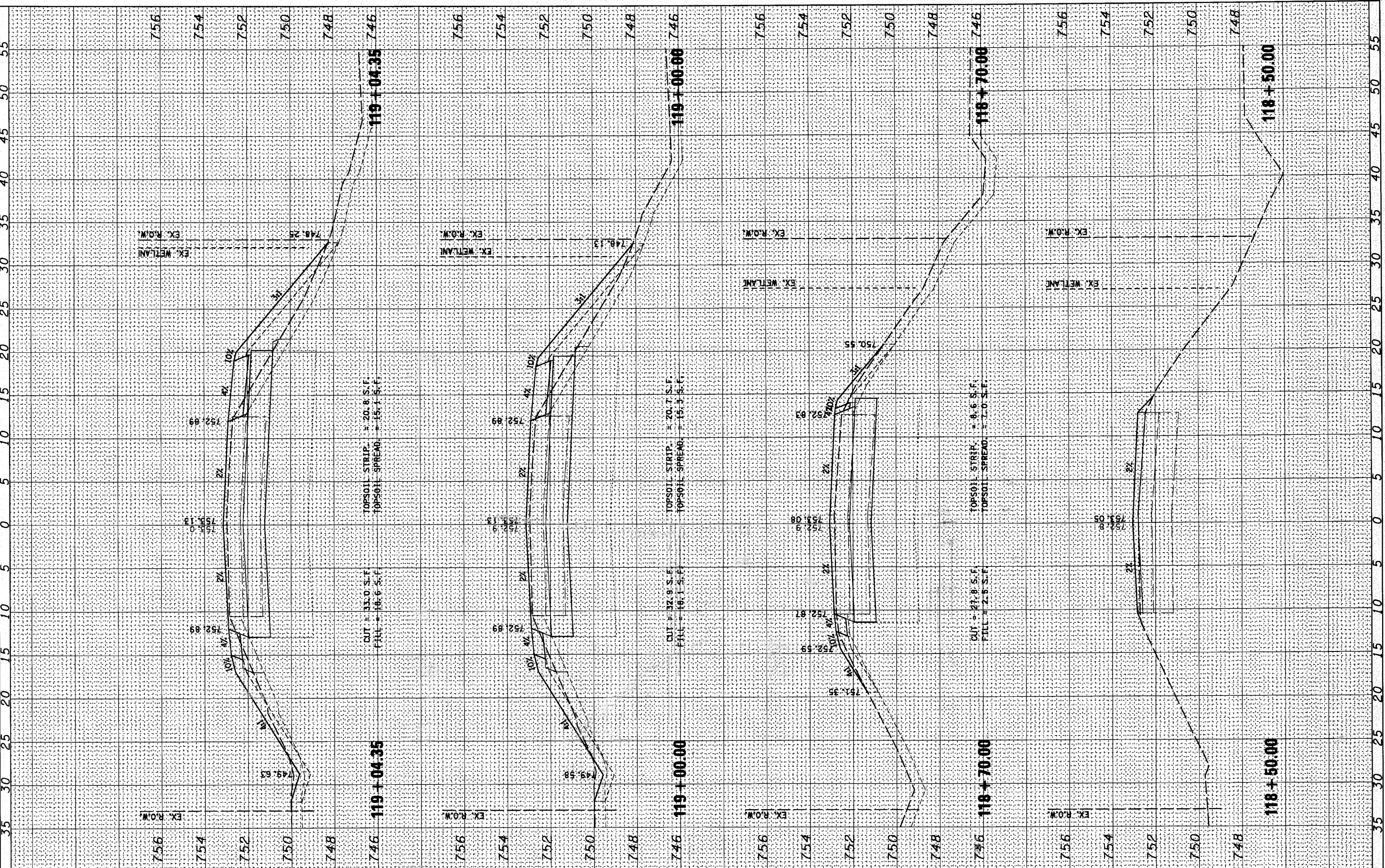
RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
2332	03-14185-02-BR	KANE	73	54
FED. ROAD DIST. NO. 1 ILLINOIS FED. AID PROJECT			CONTRACT NO. 63521	



FINAL SURVEY	BY	DATE
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PLOTTED		
NOTE BOOK		
AREAS CHECKED		
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USER NAME = #USER#	DESIGNED -	REVISED -
PLOT SCALE =	DRAWN -	REVISED -
PLOT DATE = 10/21/2010	CHECKED -	REVISED -
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STATE OF ILLINOIS  
DEPARTMENT OF TRANSPORTATION

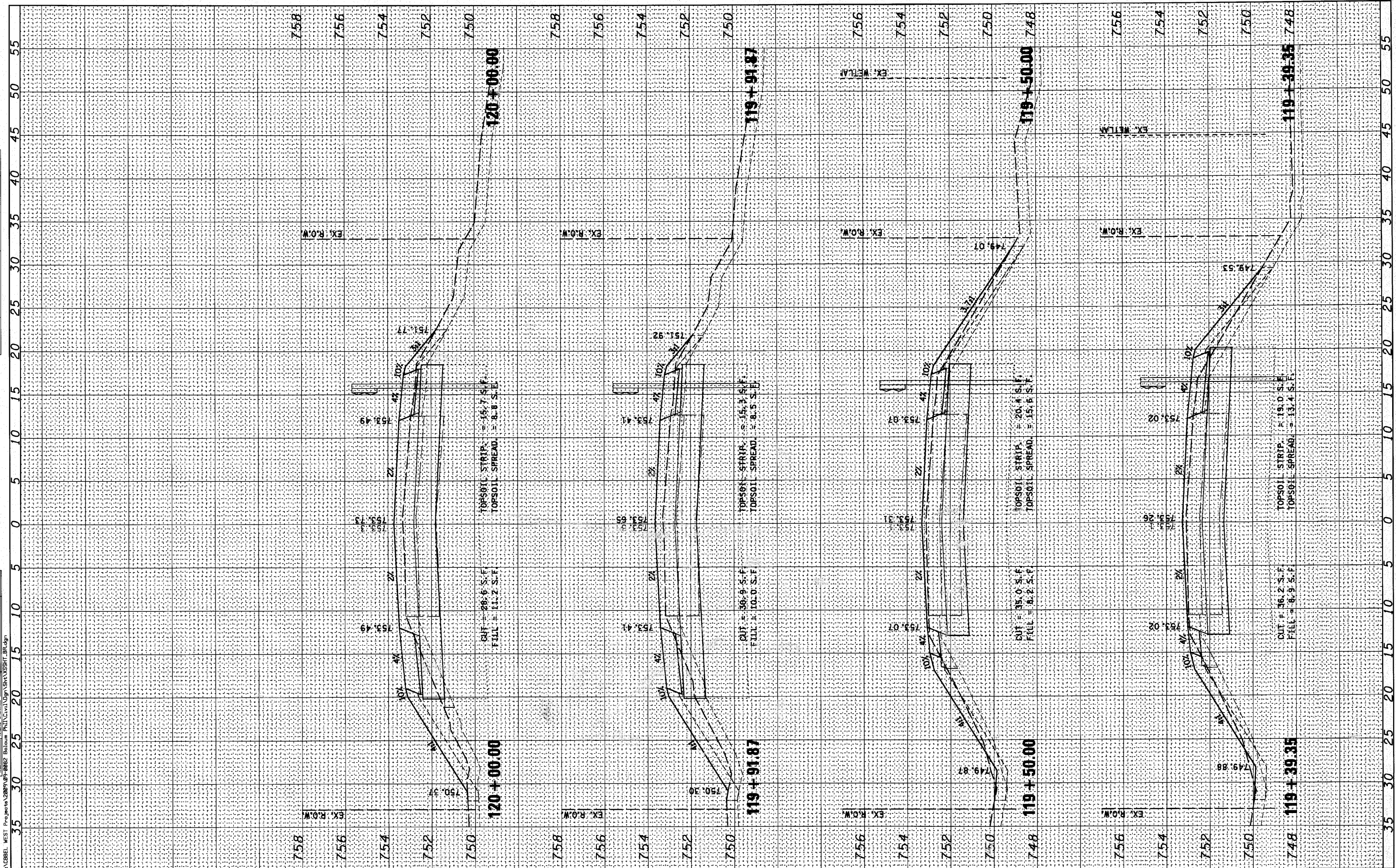
CROSS SECTIONS BOLCUM ROAD			
SCALE:	SHEET NO.	OF 73 SHEETS	STA. 118+50.00 TO STA. 119+04.35

ROUTE	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
2332	03-14185-02-BR	KANE	73	55
FED. ROAD DIST. NO. 1 ILLINOIS FED. AID PROJECT				
CONTRACT NO. 63521				



FINAL SURVEY	BY	DATE
SURVEYED		
PLOTTED		
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AREAS		
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ORIGINAL SURVEY	BY	DATE
SURVEYED		
PLOTTED		
NOTE BOOK		
AREAS		
CHECKED		



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**STATE OF ILLINOIS  
DEPARTMENT OF TRANSPORTATION**

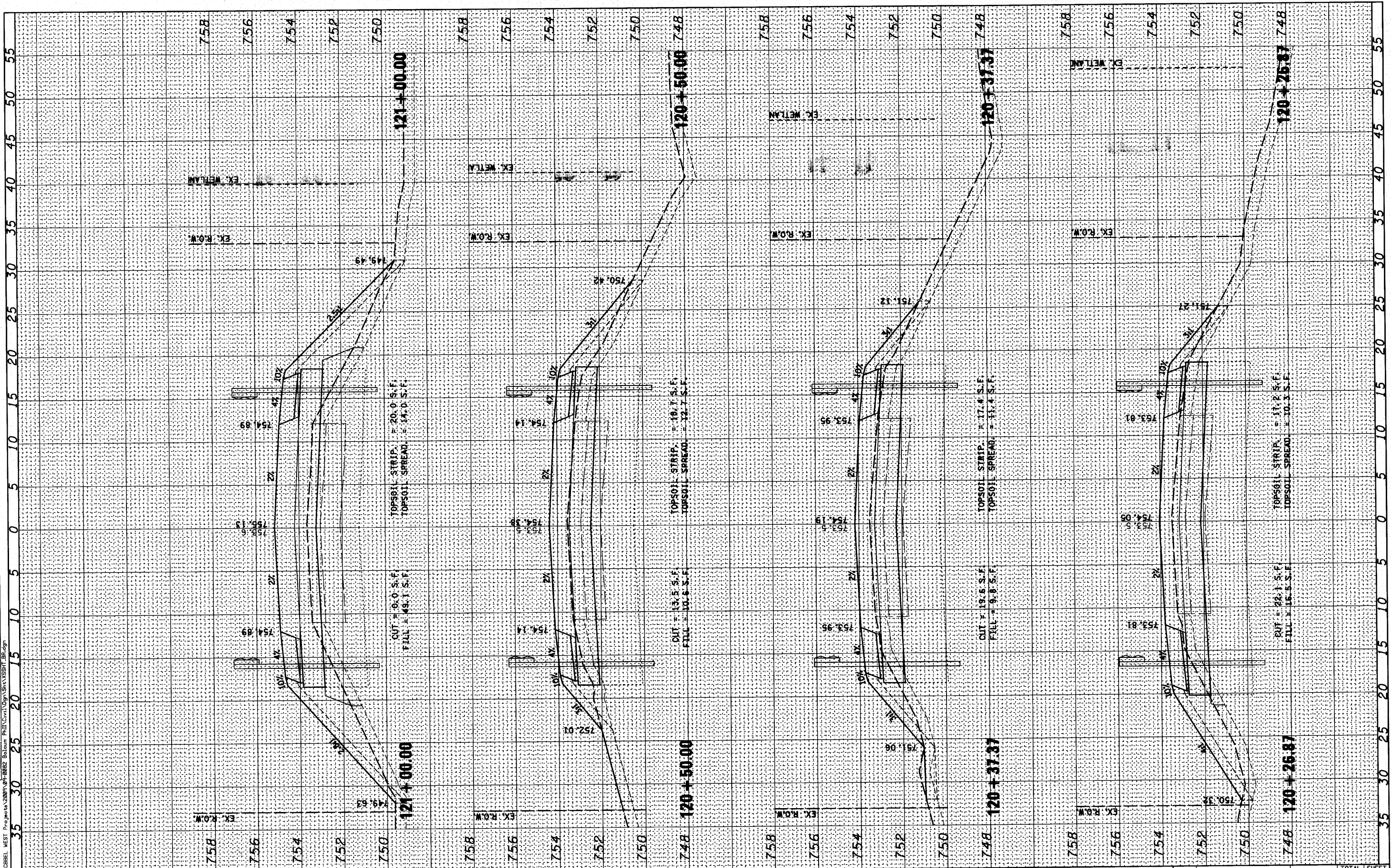
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<b>BOLCUM ROAD</b>			
SCALE:	SHEET NO.	OF 73 SHEETS	STA. 119+39.35 TO STA. 120+00.00

RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
2332	03-14185-02-BR	KANE	73	56
FED. ROAD DIST. NO. 1 ILLINOIS FED. AID PROJECT				
CONTRACT NO. 63521				



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

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



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 St. Charles, Illinois 60174

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	DATE - 10/22/10	REVISED -

STATE OF ILLINOIS  
 DEPARTMENT OF TRANSPORTATION

CROSS SECTIONS  
 BOLCUM ROAD  
 SCALE: SHEET NO. OF 73 SHEETS STA. 120+26.87 TO STA. 121+00.00

RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
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CONTRACT NO.63521				
FED. ROAD DIST. NO. 1 ILLINOIS FED. AID PROJECT				

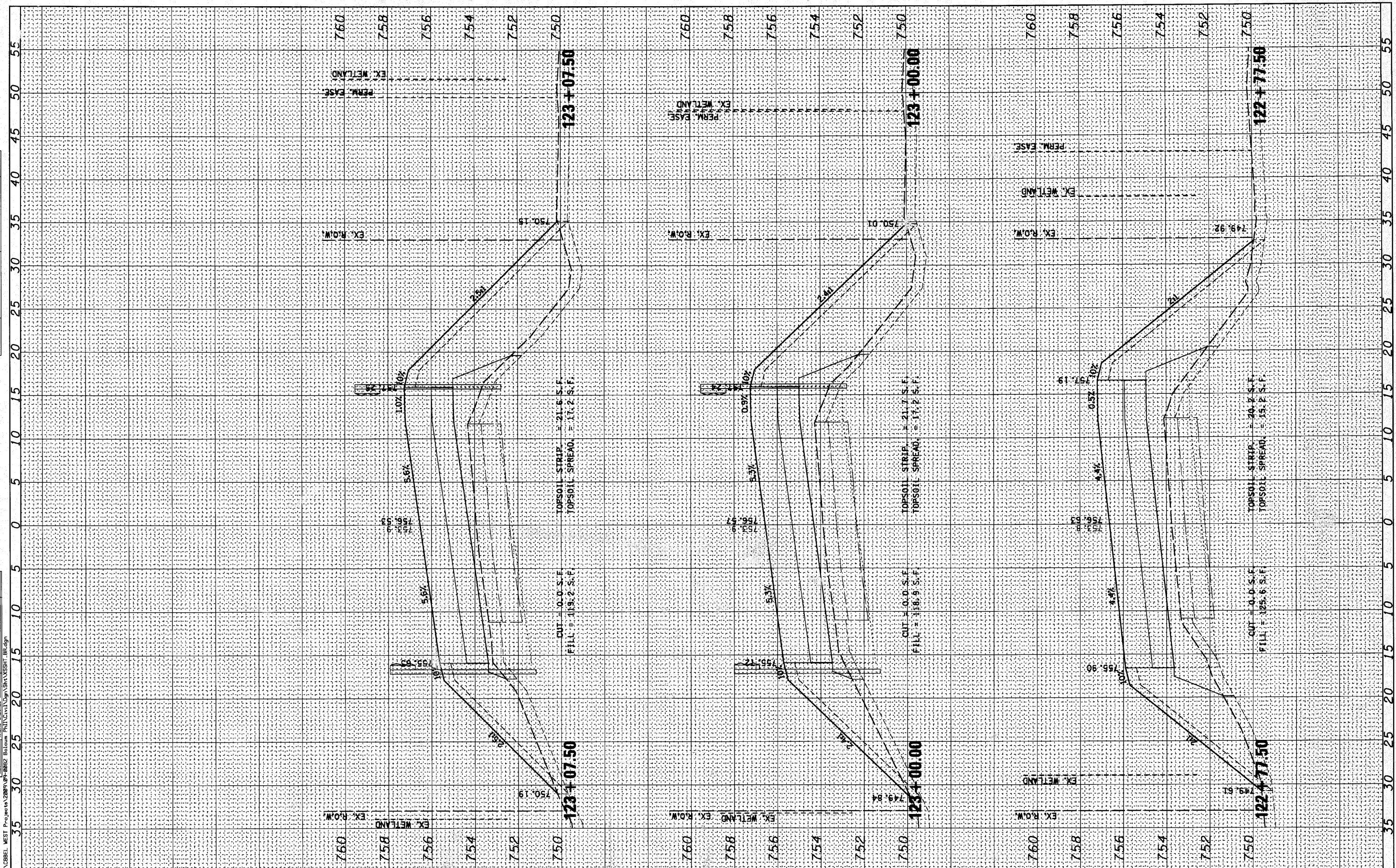






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NOTE BOOK		
AREAS CHECKED		
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ORIGINAL SURVEY	BY	DATE
SURVEYED		
PLOTTED		
NOTE BOOK		
AREAS CHECKED		
NO.		



<b>WBK</b> WILLS BURKE KELSEY ASSOCIATES LTD. 116 West Main Street, Suite 201 St. Charles, Illinois 60174	USER NAME = #USER# PLOT SCALE = PLOT DATE = 10/21/2010	DESIGNED - DRAWN - CHECKED - DATE = 10/22/10	REVISED - REVISED - REVISED - REVISED -	<b>STATE OF ILLINOIS</b> <b>DEPARTMENT OF TRANSPORTATION</b>	SCALE: SHEET NO. OF 73 SHEETS STA. 122+77.50 TO STA. 123+07.50	<b>CROSS SECTIONS</b> <b>BOLCUM ROAD</b>	RTE. 2332 SECTION 03-14185-02-BR COUNTY KANE TOTAL SHEETS 73 SHEET NO. 59	FEDERAL ROAD DIST. NO. 1 ILLINOIS FED. AID PROJECT <b>CONTRACT NO. 63521</b>
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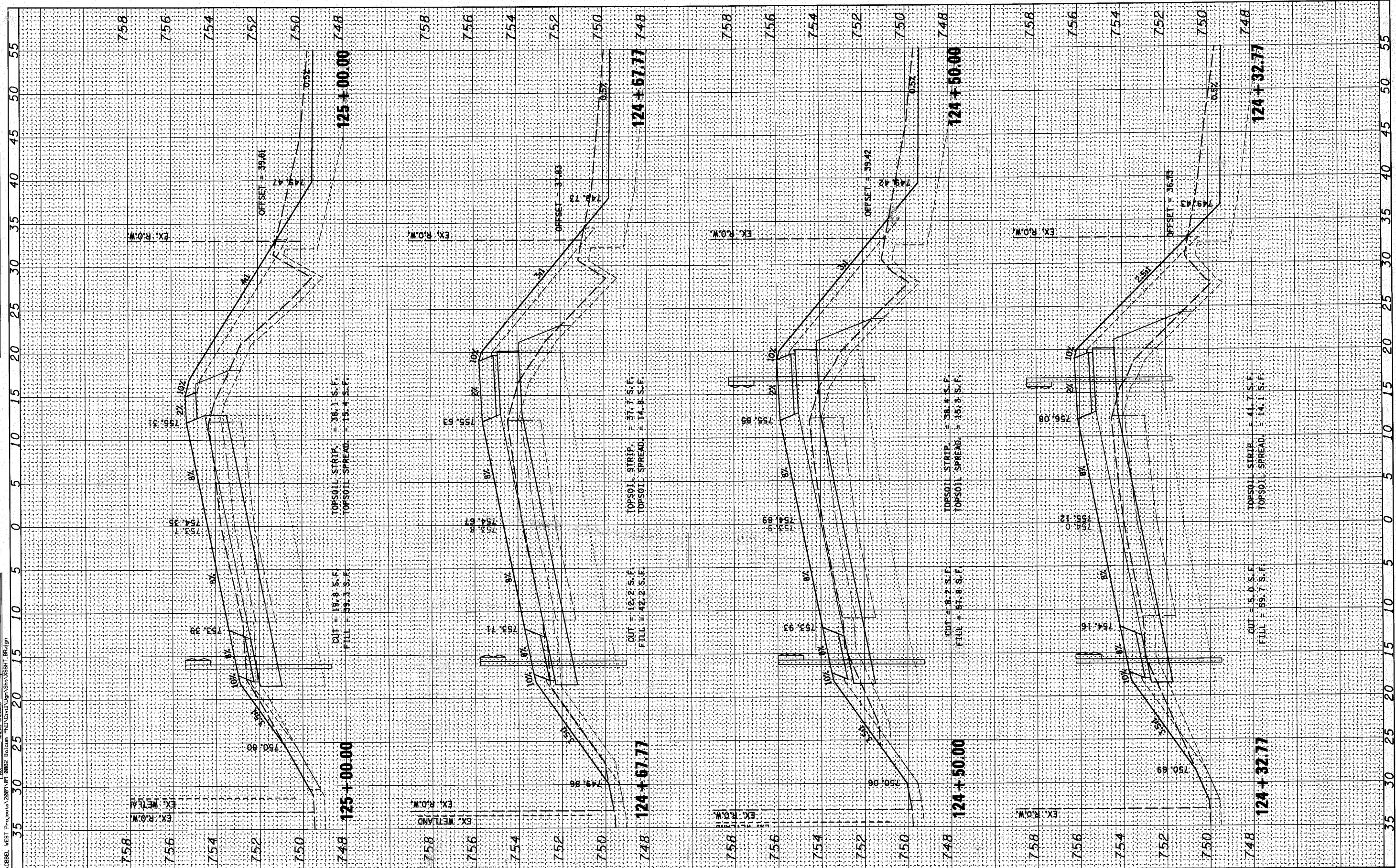






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**WILLS BURKE KELSEY ASSOCIATES LTD.**  
 118 West Main Street, Suite 201  
 St. Charles, Illinois 62274

USER NAME = #USER#	DESIGNED -	REVISED -
PLOT SCALE =	DRAWN -	REVISED -
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**STATE OF ILLINOIS  
DEPARTMENT OF TRANSPORTATION**

**CROSS SECTIONS  
BOLCUM ROAD**

SCALE: SHEET NO. OF 73 SHEETS STA. 124+32.77 TO STA. 125+00.00

RTE. 2332	SECTION 03-14185-02-BR	COUNTY KANE	TOTAL SHEET NO. 73
FED. ROAD DIST. NO. 1 ILLINOIS FED. AID PROJECT			SHEET NO. 61
CONTRACT NO. 63521			

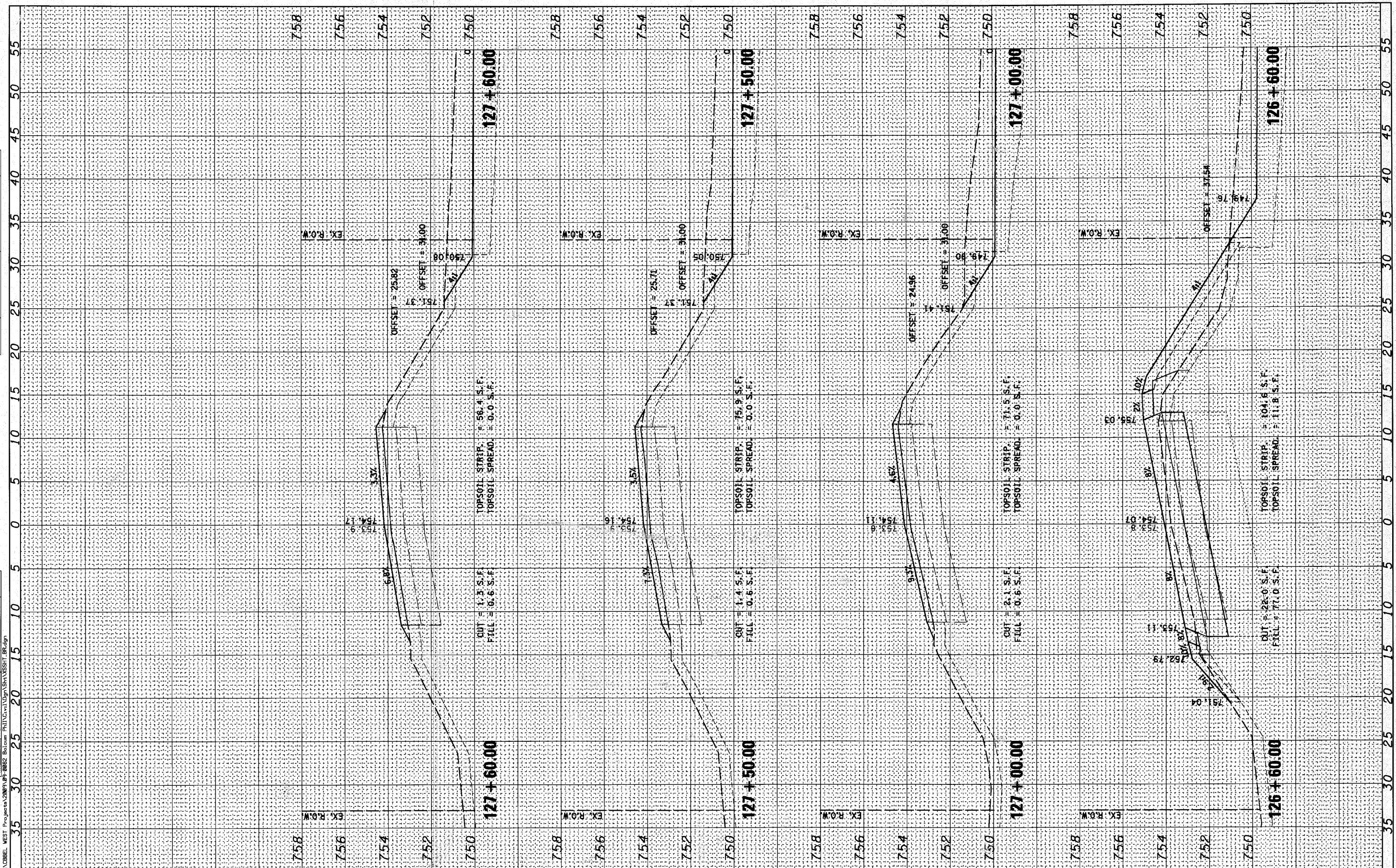






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**STATE OF ILLINOIS  
 DEPARTMENT OF TRANSPORTATION**

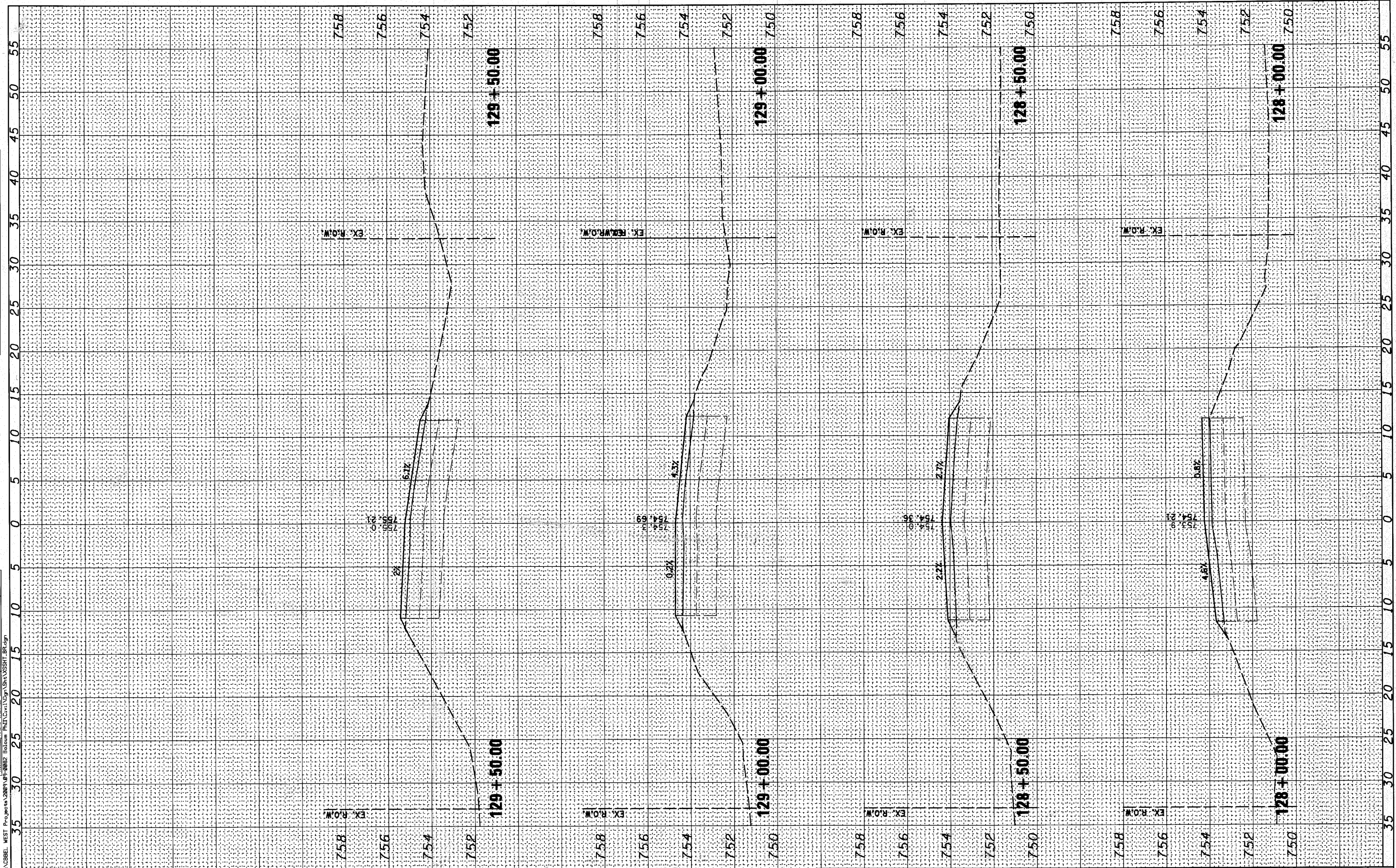
<b>CROSS SECTIONS BOLCUM ROAD</b>			
SCALE:	SHEET NO.	OF 73 SHEETS	STA. 126+60.00 TO STA. 127+60.00

RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
2332	03-14185-02-BR	KANE	73	63
FED. ROAD DIST. NO. 1 ILLINOIS FED. AID PROJECT				
CONTRACT NO. 63521				



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**STATE OF ILLINOIS  
DEPARTMENT OF TRANSPORTATION**

**CROSS SECTIONS  
BOLCUM ROAD**

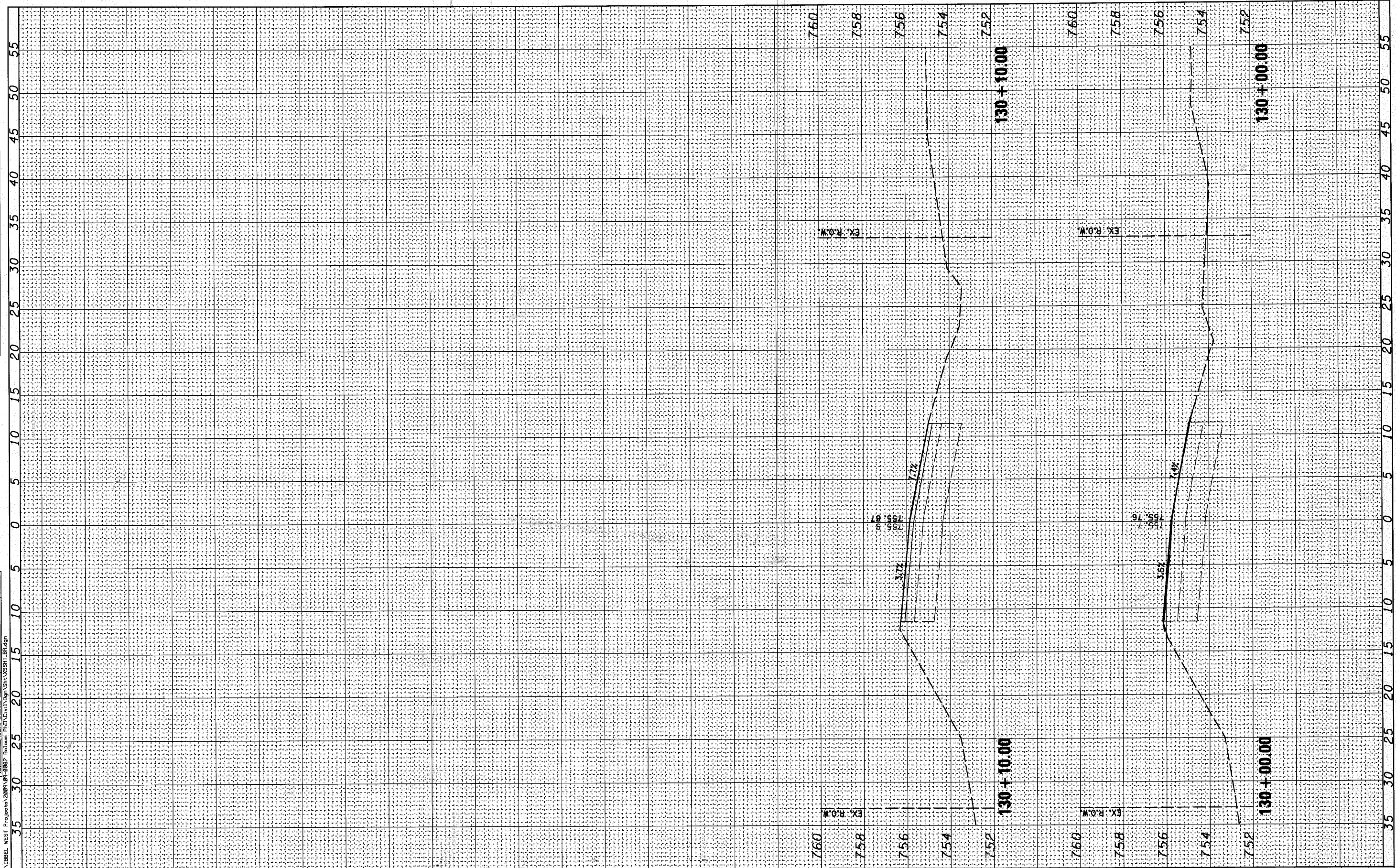
SCALE: SHEET NO. OF 73 SHEETS STA. 128+00.00 TO STA. 129+50.00

RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
2332	03-14185-02-BR	KANE	73	64
FED. ROAD DIST. NO. 1 ILLINOIS FED. AID PROJECT				
CONTRACT NO. 63521				



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PLOT DATE = 10/21/2010	CHECKED -	REVISED -
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**STATE OF ILLINOIS  
 DEPARTMENT OF TRANSPORTATION**

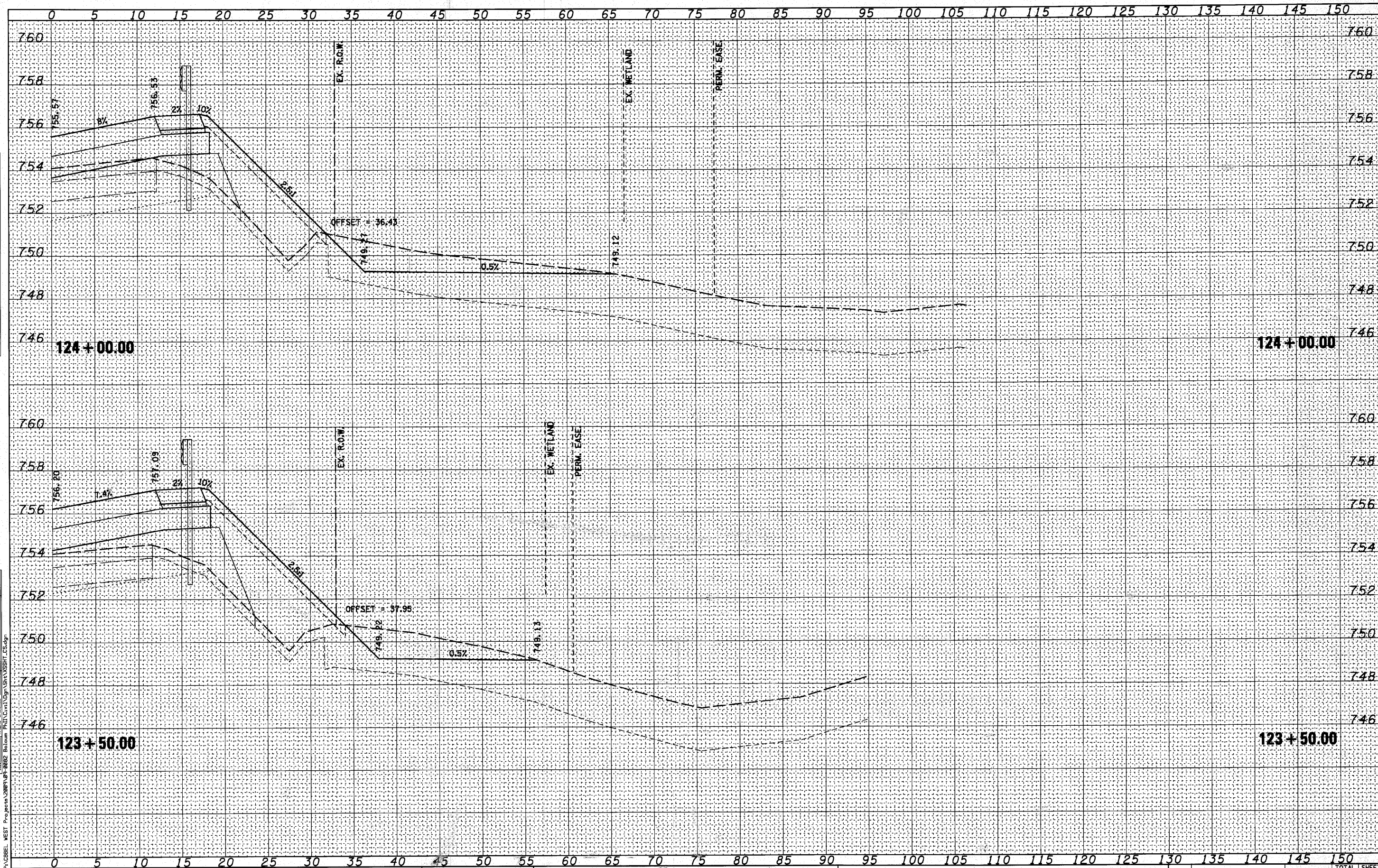
<b>CROSS SECTIONS</b>			
<b>BOLCUM ROAD</b>			
SCALE:	SHEET NO.	OF 73 SHEETS	STA. 130+00.00 TO STA. 130+10.00

RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
2332	03-14185-02-BR	KANE	73	65
FED. ROAD DIST. NO. 1 ILLINOIS FED. AID PROJECT				
CONTRACT NO. 63521				



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STATE OF ILLINOIS  
 DEPARTMENT OF TRANSPORTATION

CROSS SECTIONS COMPENSATORY STORAGE			
SCALE:	SHEET NO.	OF 73 SHEETS	STA. 123+50.00 TO STA. 124+00.00

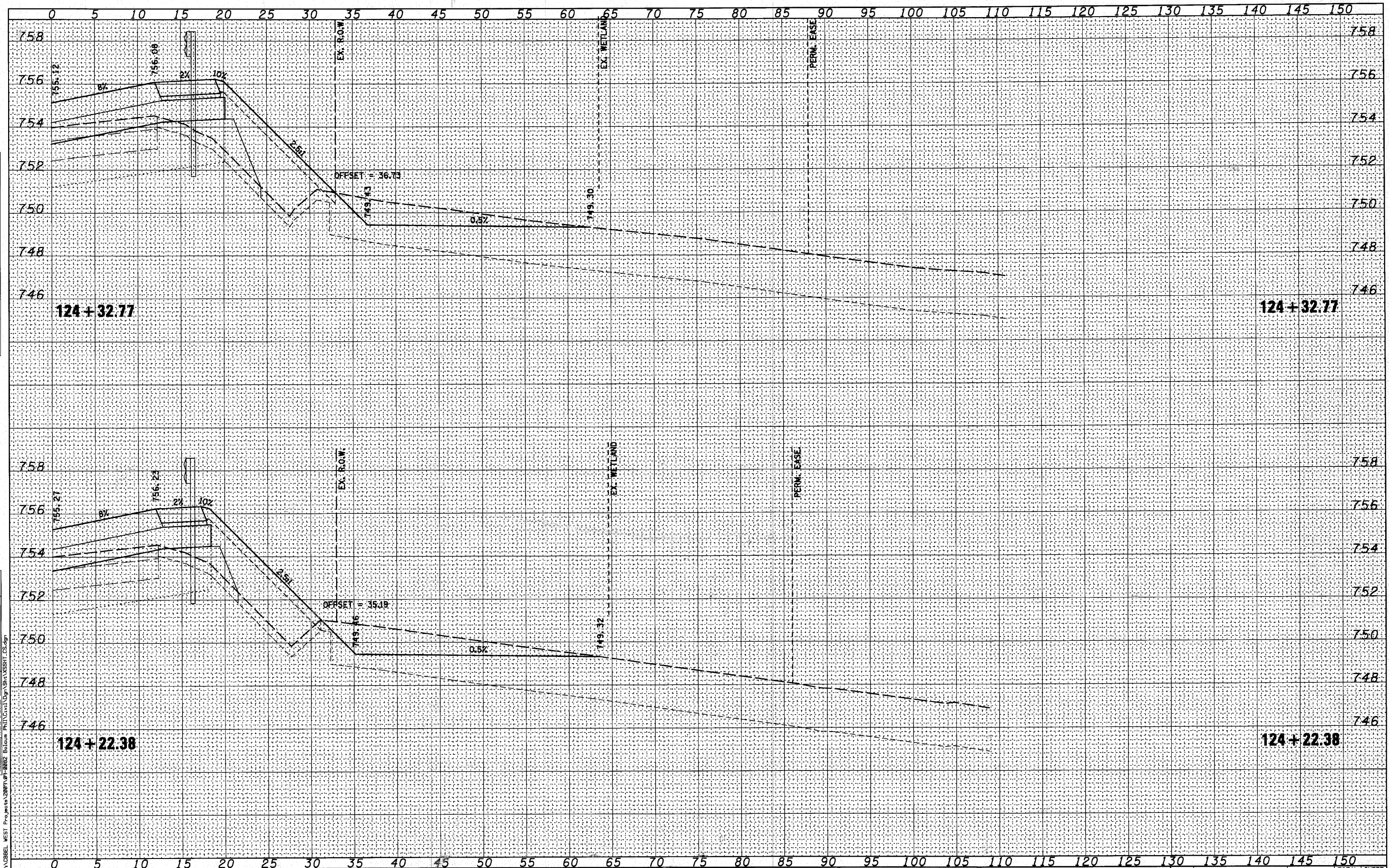
RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
2332	03-14185-02-BR	KANE	73	66
FED. ROAD DIST. NO. 1 ILLINOIS FED. AID PROJECT				
CONTRACT NO. 63521				

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DEPARTMENT OF TRANSPORTATION

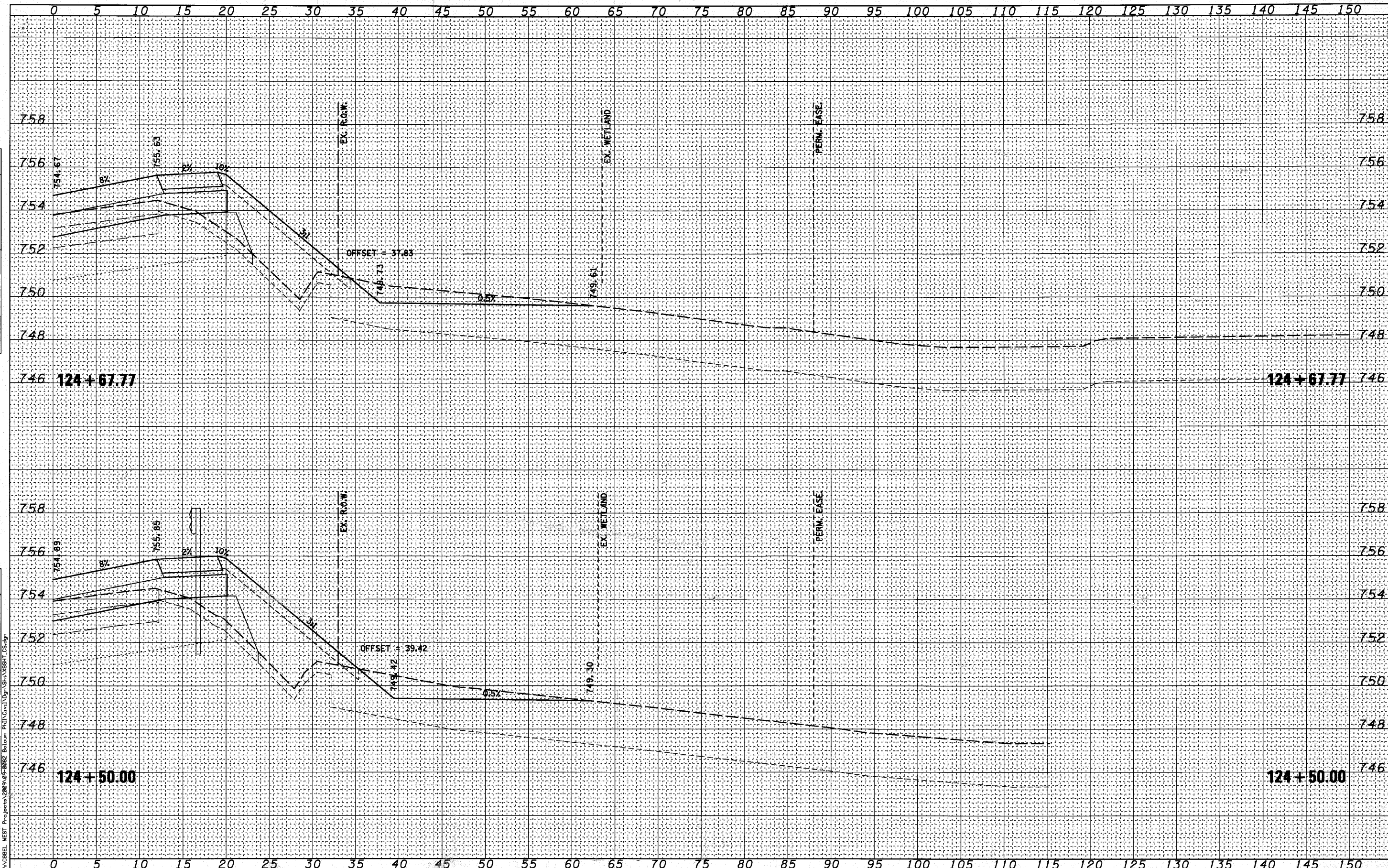
CROSS SECTIONS COMPENSATORY STORAGE		
SCALE:	SHEET NO. OF 73 SHEETS	STA. 124+22.38 TO STA. 124+32.77

RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
2332	03-14185-02-BR	KANE	73	67
CONTRACT NO.63521				
FED. ROAD DIST. NO. 1 ILLINOIS FED. AID PROJECT				



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PLLOT DATE = 10/21/2010	CHECKED -	REVISED -
	DATE - 10/22/10	REVISED -

STATE OF ILLINOIS  
DEPARTMENT OF TRANSPORTATION

CROSS SECTIONS			
COMPENSATORY STORAGE			
SCALE:	SHEET NO.	OF 73 SHEETS	STA. 124+50.00 TO STA. 124+67.77

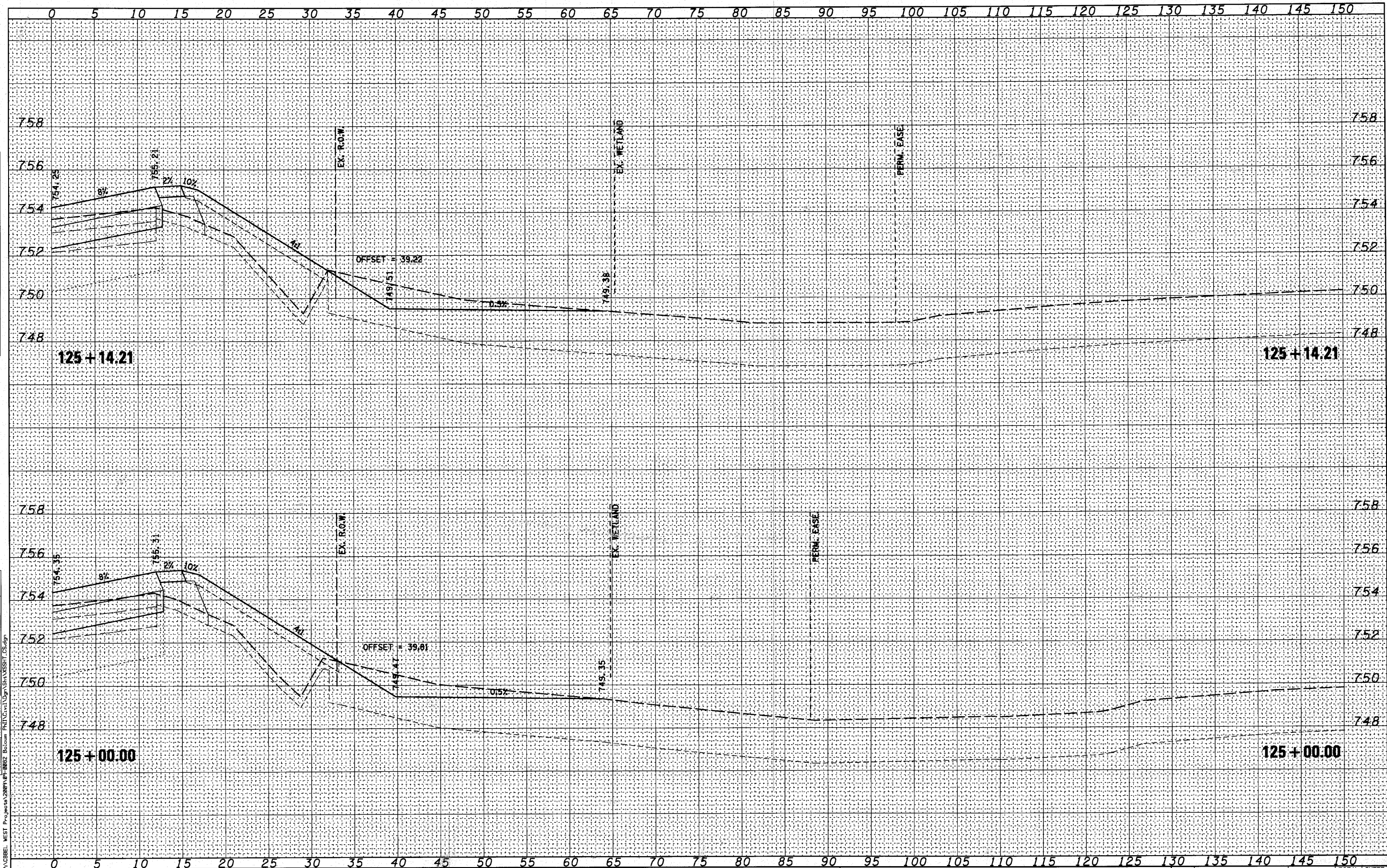
RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
2332	03-14185-02-BR	KANE	73	68
CONTRACT NO. 63521				
FED. ROAD DIST. NO. 1 ILLINOIS FED. AID PROJECT				

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	DATE - 10/22/10	REVISED -

STATE OF ILLINOIS  
DEPARTMENT OF TRANSPORTATION

CROSS SECTIONS			
COMPENSATORY STORAGE			
SCALE:	SHEET NO.	OF 73 SHEETS	STA. 125+00.00 TO STA. 125+14.21

RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
2332	03-14185-02-BR	KANE	73	69
CONTRACT NO. 63521				
FED. ROAD DIST. NO. 1 ILLINOIS FED. AID PROJECT				

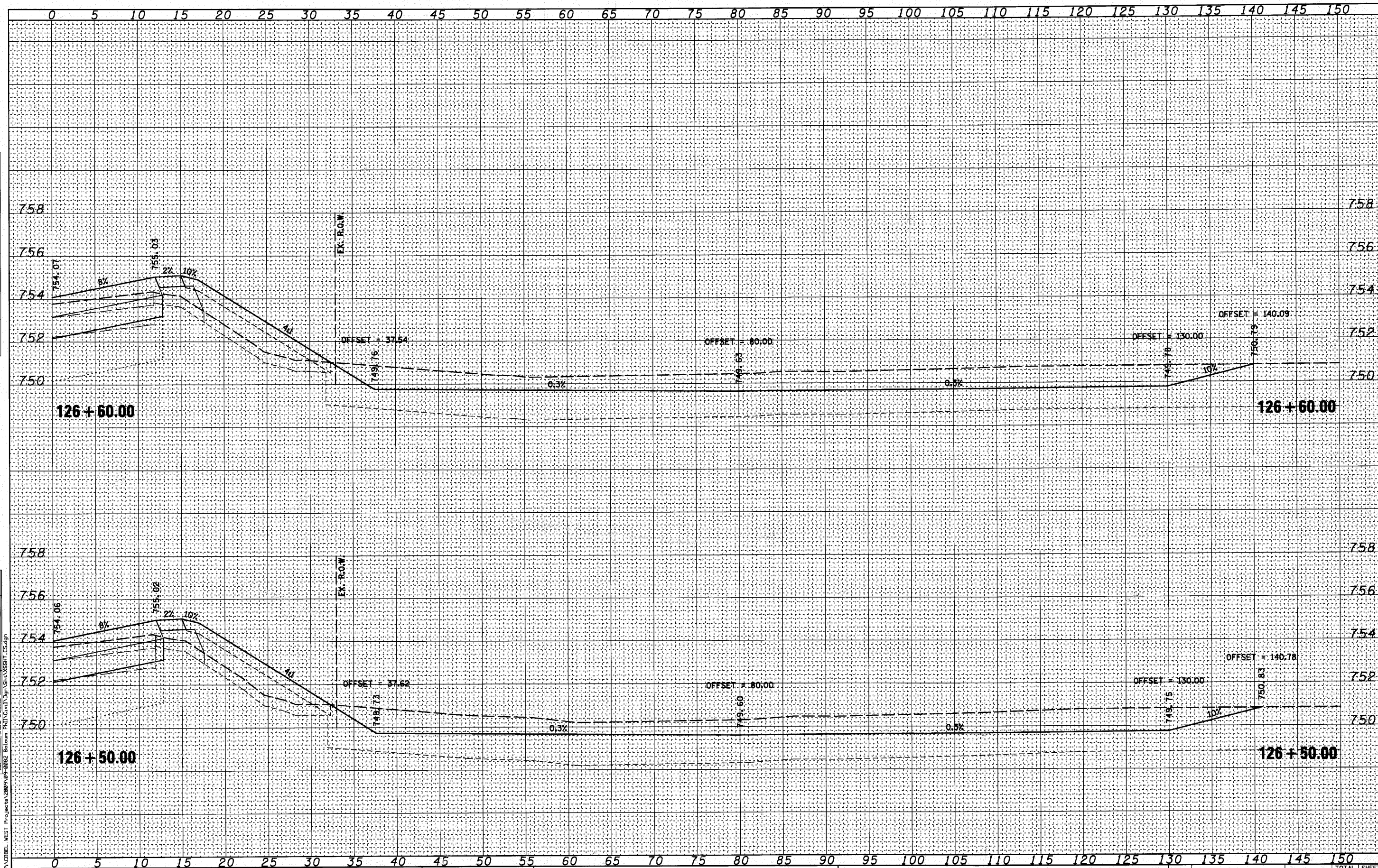






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	DATE = 10/22/10	REVISED -

STATE OF ILLINOIS  
 DEPARTMENT OF TRANSPORTATION

CROSS SECTIONS	
COMPENSATORY STORAGE	
SCALE:	SHEET NO. OF 73 SHEETS STA. 126+50.00 TO STA. 126+60.00

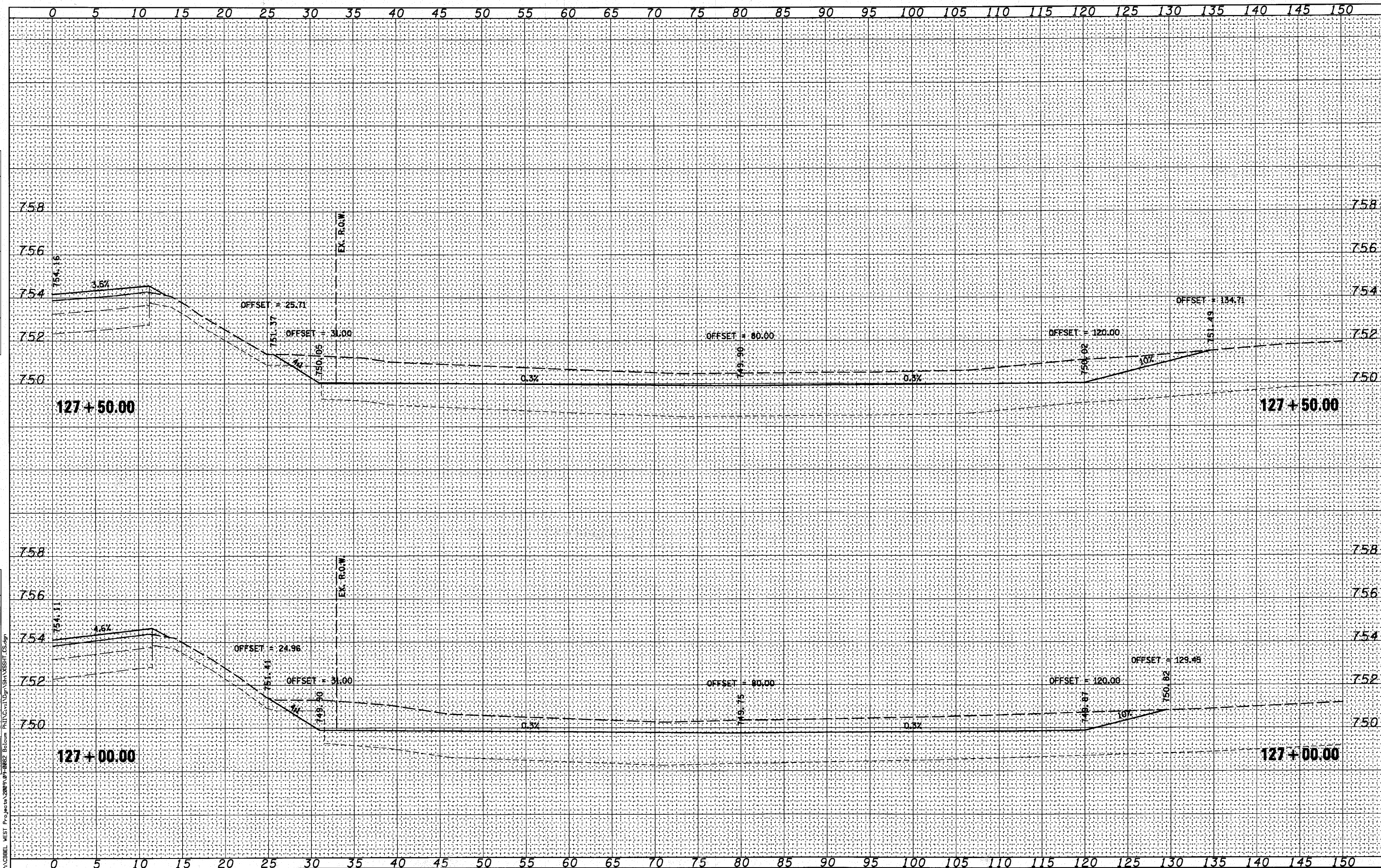
RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
2332	03-14185-02-BR	KANE	73	71
CONTRACT NO. 63521				
FED. ROAD DIST. NO. 1 ILLINOIS FED. AID PROJECT				

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	DATE - 10/22/10	REVISED -

STATE OF ILLINOIS  
DEPARTMENT OF TRANSPORTATION

CROSS SECTIONS			
COMPENSATORY STORAGE			
SCALE:	SHEET NO.	OF 73 SHEETS	STA. 127+00.00 TO STA. 127+50.00

ROUTE	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
2332	03-14185-02-BR	KANE	73	72
CONTRACT NO. 63521				
FED. ROAD DIST. NO. 1   ILLINOIS   FED. AID PROJECT				



