

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
646	8BR-1	WHITESIDE	90	1
FED. ROAD DIST. NO. 2		ILLINOIS	CONTRACT NO. 84854	

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION
DIVISION OF HIGHWAYS

PLANS FOR FEDERAL AID PROPOSED HIGHWAY PLANS

FAP ROUTE 646 (IL 40)
SECTION 8BR-1
PROJECT ACBRF-ACF-0646(075)
WHITESIDE COUNTY

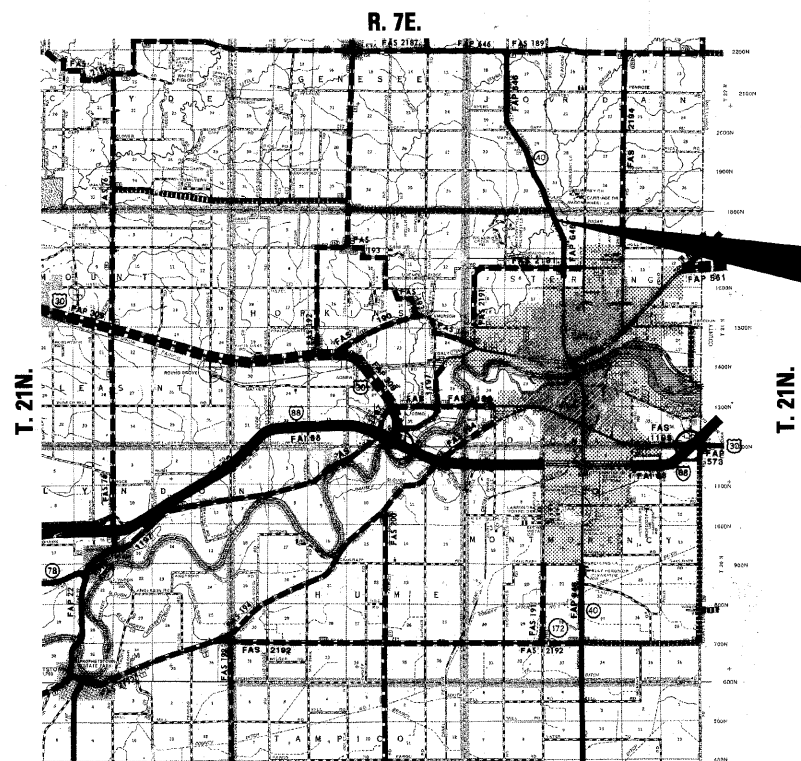
C-92-121-06

PROJECT ENGINEER: REBECCA MARRUFFO

FOR INDEX OF SHEETS, SEE SHEET NO. 2
FOR INDEX OF HIGHWAY STANDARDS, SEE SHEET NO. 2

PROJECT LOCATED IN THE CITY OF STERLING

ADT: 4,600 (2007) 6,500 (2027)
DESIGN SPEED LIMIT: 55 MPH
POSTED SPEED LIMIT: 55 MPH
DESIGN DESIGNATION: 650(31) MINOR ARTERIAL (HMA-20)



IMPROVEMENT BEGINS
STA. 935 + 00

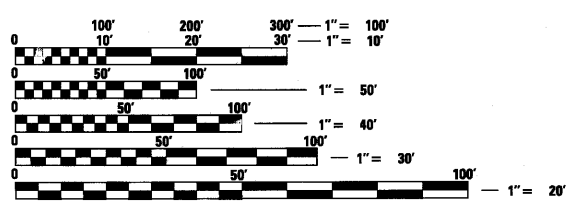
SECTION BEGINS
STA. 935 + 80

INCLUDES THE REMOVAL AND REPLACEMENT
OF THE STRUCTURE CARRYING IL 40 OVER
ELKHORN CREEK STA. 943 + 57.38
EXISTING SN-098-0013
PROPOSED SN-098-0117

SECTION ENDS
STA. 950 + 9?

IMPROVEMENT ENDS
STA. 952 + 00

STERLING TOWNSHIP, SECTION 4
NET LENGTH = 1512 LIN FT (0.286 MILE)
GROSS LENGTH = 1700 LIN FT (0.322 MILE)



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



August 6th 2010
Paul J. Fitzpatrick
PAUL J. FITZPATRICK
ILLINOIS REG. PROFESSIONAL ENGINEER NO. 062-047637
EXPIRATION DATE 11-30-2011
SHEETS 1-29, 65-76



STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION
DIVISION OF HIGHWAYS

SUBMITTED August 10, 2010
Debra F. Ryan
DEPUTY DIRECTOR OF HIGHWAYS, REGION ENGINEER

October 1, 2010
Scott E. Stitt, P.E.
ENGINEER OF DESIGN AND ENVIRONMENT

October 1, 2010
Christina M. Reed
DIRECTOR OF HIGHWAYS, CHIEF ENGINEER

PRINTED BY THE AUTHORITY
OF THE STATE OF ILLINOIS

CONTRACT NO. 84854

SQUAD LEADER: JENNIFER LUBBS (815) 284-5958

INDEX AND STANDARDS

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601001-03	SUB-SURFACE DRAINS
601101-01	CONCRETE HEADWALL FOR PIPE DRAIN
630001-08	STEEL PLATE BEAM GUARDRAIL
630201-06	PCC/HMA STABILIZATION AT STEEL PLATE BEAM GUARDRAIL
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701901-01	TRAFFIC CONTROL DEVICES
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WILLS BURKE KELSEY ASSOCIATES LTD. <small>116 West Main Street, Suite 201 St. Charles, Illinois 60174 (630) 443-7755</small>	USER NAME = @USER*	DESIGNED -	REVISED -	STATE OF ILLINOIS DEPARTMENT OF TRANSPORTATION	INDEX AND STANDARDS			F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
	PLOT SCALE =	CHECKED -	REVISED -		646	BBR-1	WHITESIDE	90	2			
	PLOT DATE = 7/28/2010	DATE - 8/6/10	REVISED -		SCALE: SHEET NO. 2 OF 90 SHEETS STA. TO STA.			FED. ROAD DIST. NO. 2 ILLINOIS FED. AID PROJECT CONTRACT No. 84854				

SUMMARY OF QUANTITIES

SPECIALTY ITEM	CODE NO.	ITEM	UNIT	TOTAL QUANTITY	CONSTRUCTION CODE		
					80% FEDERAL 20% STATE		NP 100% STATE
					ROADWAY 0005 RURAL	BRIDGE 0011 RURAL	ROADWAY 0005 RURAL
	20100110	TREE REMOVAL (6 TO 15 UNITS DIAMETER)	UNIT	59	59		
	20200100	EARTH EXCAVATION	CU YD	1,376	1,376		
	20400800	FURNISHED EXCAVATION	CU YD	862	862		
	X2070304	POROUS GRANULAR EMBANKMENT, SPECIAL	CU YD	200		200	
	21101615	TOPSOIL FURNISH AND PLACE, 4"	SQ YD	8,470	8,470		
	21301052	EXPLORATION TRENCH 52" DEPTH	FOOT	50	50		
S	25000210	SEEDING, CLASS 2A	ACRE	1.25	1.25		
S	25000310	SEEDING, CLASS 4	ACRE	0.5	0.5		
	25000750	MOWING	ACRE	1.25		1.25	
S	25100630	EROSION CONTROL BLANKET	SQ YD	8,470	8,470		
S	25100900	TURF REINFORCEMENT MAT	SQ YD	80	80		
S	28000250	TEMPORARY EROSION CONTROL SEEDING	POUND	714	714		
S	28000305	TEMPORARY DITCH CHECKS	FOOT	240	240		
	28000400	PERIMETER EROSION BARRIER	FOOT	2,762	2,762		
	28100109	STONE RIPRAP, CLASS A5	SQ YD	961		961	
	28200200	FILTER FABRIC	SQ YD	961		961	
	31100100	SUB BASE GRANULAR MATERIAL, TYPE A	TON	2,741	2,741		
	35101400	AGGREGATE BASE COURSE, TYPE B	TON	397	397		
	35600717	HOT-MIX ASPHALT BASE COURSE WIDENING, 10 1/4"	SQ YD	139	139		
	40600200	BITUMINOUS MATERIALS (PRIME COAT)	TON	6	6		
	40600300	AGGREGATE (PRIME COAT)	TON	22	22		
	40600982	HOT-MIX ASPHALT SURFACE REMOVAL - BUTT JOINT	SQ YD	295	295		
	40600990	TEMPORARY RAMP	SQ YD	79	79		
	40603080	HOT-MIX ASPHALT BINDER COURSE, IL-19.0, N50	TON	1,002	1,002		
	40603310	HOT-MIX ASPHALT SURFACE COURSE, MIX "C", N50	TON	264	264		
	40603335	HOT-MIX ASPHALT SURFACE COURSE, MIX "D", N50	TON	367	367		
	42001430	BRIDGE APPROACH PAVEMENT CONNECTOR (FLEXIBLE)	SQ YD	56	56		
	44000100	PAVEMENT REMOVAL	SQ YD	232	232		
	Z0004552	APPROACH SLAB REMOVAL	SQ YD	223	223		
	44004250	PAVED SHOULDER REMOVAL	SQ YD	483	483		
	Z0004638	PAVEMENT BREAKING	SQ YD	1,390	1,390		
	48102100	AGGREGATE WEDGE SHOULDER, TYPE B	TON	76	76		

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**STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION**

SUMMARY OF QUANTITIES

SCALE: SHEET NO. 3 OF 90 SHEETS STA. TO STA.

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
646	BBR-1	WHITESIDE	90	3
CONTRACT NO. 84854				
FED. ROAD DIST. NO. 2 ILLINOIS FED. AID PROJECT				

SUMMARY OF QUANTITIES

SPECIALTY ITEM	CODE NO.	ITEM	UNIT	TOTAL QUANTITY	CONSTRUCTION CODE				
					L25 ACF		L1C ACSRF	CONSTRUCTION CODE	
					80% FEDERAL 20% STATE		BRIDGE	NP 100% STATE	
					ROADWAY	BRIDGE	ROADWAY		
					0005	0011	0005		
					RURAL	RURAL	RURAL		
	48203021	HOT-MIX ASPHALT SHOULDERS, 6"	SQ YD	2,299	2,299				
	50100100	REMOVAL OF EXISTING STRUCTURES	EACH	1		1			
	50104000	BRIDGE RAIL REMOVAL	FOOT	506		506			
	50200100	STRUCTURE EXCAVATION	CU YD	288		288			
	50200300	COFFERDAM EXCAVATION	CU YD	158		158			
	50202901	COFFERDAM (LOCATION - 1)	EACH	1		1			
	50300225	CONCRETE STRUCTURES	CU YD	142.4		142.4			
	50300255	CONCRETE SUPERSTRUCTURE	CU YD	477.8		477.8			
	50300260	BRIDGE DECK GROOVING	SQ YD	1,258		1,258			
	50300265	SEAL COAT CONCRETE	CU YD	66.4		66.4			
	50300280	CONCRETE ENCASEMENT	CU YD	8.8		8.8			
	50300300	PROTECTIVE COAT	SQ YD	1,334		1,334			
	50500105	FURNISHING AND ERECTING STRUCTURAL STEEL	L SUM	1		1			
	50500505	STUD SHEAR CONNECTORS	EACH	2,556		2,556			
	50800205	REINFORCEMENT BARS, EPOXY COATED	POUND	131,460		131,460			
	50800515	BAR SPLICERS	EACH	1,152		1,152			
	51201600	FURNISHING STEEL PILES HP12X53	FOOT	928		928			
	51201800	FURNISHING STEEL PILES HP14X73	FOOT	1,026		1,026			
	51202305	DRIVING PILES	FOOT	1,954		1,954			
	51203600	TEST PILE STEEL HP12X53	EACH	1		1			
	51203800	TEST PILE STEEL HP14X73	EACH	2		2			
	51204650	PILE SHOES	EACH	46		46			
	20026407	TEMPORARY SHEET PILING	SQ FT	1,471		1,471			
	51500100	NAME PLATES	EACH	1		1			
	52100520	ANCHOR BOLTS, 1"	EACH	36		36			
	59100100	GEOCOMPOSITE WALL DRAIN	SQ YD	93		93			
	60100060	CONCRETE HEADWALLS FOR PIPE DRAINS	EACH	4	4				
	60100915	PIPE DRAINS 6"	FOOT	50	50				
	60100925	PIPE DRAINS 8"	FOOT	50	50				
	20046304	PIPE UNDERDRAINS FOR STRUCTURES 4"	FOOT	180		180			
	61133100	FIELD TILE JUNCTION VAULTS, 2' DIA.	EACH	2	2				
	63000001	STEEL PLATE BEAM GUARD RAIL, TYPE A, 6 FOOT POSTS	FOOT	225	225				

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	DATE - 8/6/10	REVISED -

**STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION**

SUMMARY OF QUANTITIES			
SCALE:	SHEET NO. 4 OF 90 SHEETS	STA.	TO STA.

F.A.P. RTE. 646	SECTION BBR-1	COUNTY WHITEHIDE	TOTAL SHEETS 90	SHEET NO. 4
CONTRACT NO. 84854				
FED. ROAD DIST. NO. 2 ILLINOIS FED. AID PROJECT				

SUMMARY OF QUANTITIES

SPECIALTY ITEM	CODE NO.	ITEM	UNIT	TOTAL QUANTITY	CONSTRUCTION CODE		
					L25 ACF		LIC ACBRF
					ROADWAY 0005 RURAL	BRIDGE 0011 RURAL	NP 100% STATE ROADWAY 0005 RURAL
	63000003	STEEL PLATE BEAM GUARD RAIL, TYPE A, 9 FOOT POSTS	FOOT	125	125		
	63100085	TRAFFIC BARRIER TERMINAL, TYPE 6	EACH	4	4		
	63100167	TRAFFIC BARRIER TERMINAL, TYPE 1 (SPECIAL) TANGENT	EACH	4	4		
	63200310	GUARDRAIL REMOVAL	FOOT	708	708		
	63500105	DELINEATORS	EACH	4	4		
S	66600105	FURNISHING AND ERECTING RIGHT-OF-WAY MARKERS	EACH	9	9		
S	66700305	PERMANENT SURVEY MARKERS, TYPE II	EACH	2	2		
	67000400	ENGINEER'S FIELD OFFICE, TYPE A	CAL MO	10	10		
	67100100	MOBILIZATION	L SUM	1	1		
	70100405	TRAFFIC CONTROL AND PROTECTION, STANDARD 701321	EACH	1	1		
	70100450	TRAFFIC CONTROL AND PROTECTION, STANDARD 701201	L SUM	1	1		
	70100500	TRAFFIC CONTROL AND PROTECTION, STANDARD 701326	L SUM	1	1		
	70103815	TRAFFIC CONTROL SURVEILLANCE	CAL DA	14	14		
	70106500	TEMPORARY BRIDGE TRAFFIC SIGNALS	EACH	1	1		
S	70106700	TEMPORARY RUMBLE STRIP	EACH	6	6		
	70300100	SHORT-TERM PAVEMENT MARKING	FOOT	277	277		
S	70300220	TEMPORARY PAVEMENT MARKING - LINE 4"	FOOT	6,684	6,684		
S	70300280	TEMPORARY PAVEMENT MARKING - LINE 24"	FOOT	24	24		
	70301000	WORK ZONE PAVEMENT MARKING REMOVAL	SQ FT	1,893	1,893		
	70400100	TEMPORARY CONCRETE BARRIER	FOOT	1,350	1,350		
	70400200	RELOCATE TEMPORARY CONCRETE BARRIER	FOOT	1,325	1,325		
S	78001110	PAINT PAVEMENT MARKING - LINE 4"	FOOT	14,450	14,450		
S	78100100	RAISED REFLECTIVE PAVEMENT MARKER	EACH	18	18		
S	78100105	RAISED REFLECTIVE PAVEMENT MARKER (BRIDGE)	EACH	4	4		
S	78200410	GUARDRAIL MARKERS, TYPE A	EACH	12	12		
S	78200520	BARRIER WALL MARKERS, TYPE B	EACH	12	12		
S	78201000	TERMINAL MARKER - DIRECT APPLIED	EACH	4	4		
	78300100	PAVEMENT MARKING REMOVAL	SQ FT	224	224		
	78300200	RAISED REFLECTIVE PAVEMENT MARKER REMOVAL	EACH	18	18		
S	A2006514	TREE, QUERCUS BICOLOR (SWAMP WHITE OAK), 1-3/4" CALIPER, BALLED AND BURLAPPED	EACH	6	6		
	X0062456	TEMPORARY PAVEMENT	SQ YD	299	299		
	X4400110	TEMPORARY PAVEMENT REMOVAL	SQ YD	22	22		

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SUMMARY OF QUANTITIES

SPECIALTY ITEM	CODE NO.	ITEM	UNIT	TOTAL QUANTITY	CONSTRUCTION CODE		
					L25 ACF	LIC ACBFE	NP 100% STATE
					80% FEDERAL 20% STATE	ROADWAY 0005 RURAL	BRIDGE 0011 RURAL
	Z0001900	ASBESTOS BEARING PAD REMOVAL	EACH	33		33	
S	Z0013798	CONSTRUCTION LAYOUT	L SUM	1	1		
	Z0018700	DRAINAGE STRUCTURE TO BE REMOVED	EACH	1	1		
S	Z0025500	FURNISHING AND INSTALLING PROPERTY MARKERS	EACH	5	5		
	Z0030250	IMPACT ATTENUATORS, TEMPORARY (NON-REDIRECTIVE), TEST LEVEL 3	EACH	2	2		
	Z0030350	IMPACT ATTENUATORS, RELOCATE (NON- REDIRECTIVE), TEST LEVEL 3	EACH	2	2		

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GENERAL NOTES

The final top 100 mm (four inches) of soil in any right-of-way area disturbed by the Contractor must be capable of supporting vegetation. The soil must be from the A horizon (zero to 2' deep) of soil profiles of local soils.

It is estimated that 862 cubic yards of earth will be hauled to the job from outside the project limits. A shrinkage factor of 125% has been used.

All Borrow/Waste/Use sites must be approved by the Department prior to removing any material from the project or initiating any earthmoving activities, including temporary stockpiling outside the limits of construction.

The Contractor shall seed all disturbed areas within the project limits. Seeding Class 4 or 2A shall be used, except in front of properties where the grass will be mowed, then use Seeding, Class 1. Class 2A shall be used on front slopes and ditch bottoms. Class 4 shall be used behind Type A gutter, on all backslopes and areas behind the backslope, and beyond the toe of front slope on fill sections without ditches.

Fertilizer Nutrients shall be applied at the rate specified in Sections 250 and 252 of the Standard Specifications. This shall be included in the cost of the SEEDING or SODDING.

Previously pugmilled stockpiles of "Type A" older than 1 month will not be approved for use until a moisture check is run to verify moisture content. Material shipped to projects without being tested will not be accepted.

Except for the top 75 mm (3"), all aggregate bases and subbases 300 mm (12") in thickness shall be constructed of aggregate gradation CA-2. If the specified thickness exceeds 300 mm (12"), the bases or subbases shall be constructed of topsize 150 mm (6") breaker-run crushed stone with 70% to 90% by weight, passing the 4" sieve and 15% to 40% by weight, passing the 50 mm (2") size sieve, except for the top 75 mm (3"). The breaker-run crushed stone shall be reasonably uniformly graded from coarse to fine and be taken from a quarry ledge capable of producing Class "D" quality aggregate. The top 75 mm (3") shall be gradation CA-6 or CA-10 regardless of thickness. The water necessary to achieve compaction in all but the top 75 mm (3") layer may be added after the subbase or base course is placed on the grade.

The following Mixture Requirements are applicable for this project:

MIXTURE USE(S)	SURFACE	SHOULDER TOP LIFT	SHOULDER BOTTOM LIFT	HMA BINDER COURSE(S)	HMA BASE COURSE WIDENING	TEMP PAVEMENT (HMA OPTION)
PG:	PG 64-22	PG 58-22	PG 58-22	PG 64-22	PG 64-22	PG 64-22
DESIGN AIR VOIDS:	4.0@N50	3.0@N50	2.0@N50	4.0@N50	4.0@N50	4.0@N50
MIXTURE COMPOSITION: (GRADATION MIXTURE)	IL 9.5 OR 12.5	IL 9.5 OR 12.5	BAM OR IL 19	IL 19	IL 19	IL 19
FRICTION AGGREGATE:	D	C	N/A	N/A	N/A	N/A
20 YEAR ESAL	1.2	N/A	N/A	N/A	N/A	N/A

The Contractor will be required to furnish 140 mm (5 1/2") high brass stencils as approved by the Engineer and install stationing at 250' intervals. Stationing shall be placed on both lanes of 2-lane highways and on the outside lanes in both directions on 4-lane highways. The stations shall be placed 150 mm (6") inside the pavement marking edge so they can be read from the shoulder. This work will be included in the cost of the final pavement surface.

The area to be primed shall be limited to that which can be covered with HMA the same day, unless otherwise permitted by the Engineer.

A Nationwide 404 Permit has been issued for this project and the conditions of that permit must be adhered to.

The new number for this structure will be 098-0117.

The additional thickness of proposed pavement required to match the bridge approach pavement, shown in Standard 420401, shall be included in the cost of the proposed pavement and not paid for separately.

Reflector Markers Type B shall be installed on the top of bridge parapet walls. The markers shall be according to Standard 635011 and the color and spacing according to Standard 635006, except the minimum is 2 per side.

Culvert & bridge flows must be maintained throughout the project. Normal flow shall be allowed to pass at the rate it enters the jobsite. High flows shall be allowed to pass without causing damage to upstream properties.

Where field tile is encountered, storm sewer or pipe drain will be used in accordance with Section 611. The minimum size for replacement will be 150 mm (6") for Pipe Drains and 200 mm (8") for Storm Sewer, but the size must be at least 50 mm (2") larger than the adjoining tile. A Field Tile Junction Vault will be constructed at the right of way to connect the tile and storm sewer. See the Summary of Quantities for the estimated quantities.

The excavated materials from earth excavation widening, grading and shaping ditches, and excavating and grading shoulders shall be used to build up the shoulder throughout the job to conform with the typical sections and shoulder widening for terminals as shown on the plans.

Embankment quantities for the construction of the Traffic Barrier Terminals as shown in the plans are included in quantities for Furnished Excavation.

The Contractor shall supply the Resident Engineer with the manufacturer's installation requirements for the type of Steel Plate Beam Guardrail Terminal Type 1 Special (Tangent) or Steel Plate Beam Guardrail Terminal Type I Special (Flared).

One 16d galvanized nail shall be used to toe nail the wood block out to the wood post on all Traffic Barrier Terminal Type I Specials.

Delineators shall be installed as shown in Standard 635001, except that the post shall be rotated 180° and only metal-backed delineators shall be permitted.

Delineators shall be placed at the ends of approach guardrail terminal sections, and at each headwall or end section of AR Culverts. This work will be paid for at the contract unit price each for DELINEATORS.

Pavement Marking shall be done according to Standard 780001, except as follows:

The distance between yellow no-passing lines shall be 200 mm (8"), not 180 mm (7") as shown in the detail of Typical Lane and Edge Lines.

PERMANENT SURVEY MARKERS, TYPE II, shall be set at intervals of 1.6 Km (1 mile) or as directed by the Engineer. Bridge or culvert projects shall have one survey marker placed near the structure. Estimated: 2 Each.

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PLOT DATE = 8/2/2010	CHECKED -	REVISED -
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**STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION**

GENERAL NOTES

SCALE: SHEET NO. 7 OF 90 SHEETS STA. TO STA.

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
646	BBR-1	WHITESIDE	90	7
CONTRACT NO. 84854				
FED. ROAD DIST. NO. 2 ILLINOIS FED. AID PROJECT				

GENERAL NOTES

Permanent Survey Markers, Type II shall be cast-in-place as shown on District Standard 66.2. The bottom of the marker shall be 5'-0" below the ground surface.

The Contractor shall submit to the Engineer a description of location, elevation, and coordinates for each permanent survey marker. The horizontal and vertical coordinates must be derived by GPS and the elevation derived by a closed level circuit. The Engineer shall submit this information to the Survey Crew.

The temporary concrete barrier shall be anchored to the pavement with 6 anchors per section at the following locations:

- Sta. 937+75 to Sta. 949+18 (Stage 1)
- Sta. 937+75 to Sta. 949+00 (Stage 2)

Tree planting layout shall be performed by the District Landscape Architect. Mulch shall be placed 4" thick and to the diameter around the tree as shown on District Standard 92.1. The mulch shall be hardwood wood chips placed on weed barrier fabric. This work shall be included in the cost of the tree.

Right-of-way markers will be erected with the back face of the marker on the right-of-way line unless the new right-of-way line has been surveyed and pinned, in which instance the right-of-way markers will be erected 300 mm (12 inches) inside the new right-of-way line.

The Contractor shall be responsible for protecting utility property during construction operations as outlined in Article 107.31 of the Standard Specifications. A minimum of 48 hours advance notice is required for non-emergency work. The JULIE number is 800-892-0123. The following listed utilities located within the project limits or immediately adjacent to the project construction limits are members of JULIE:

AT&T

Commonwealth Edison Co.

The applicable portions of Article 105.07 of the Standard Specification shall apply except for the following: The Contractor shall be responsible to locate the vertical depths of the underground utilities which may interfere with construction operations. This work will not be measured or paid for separately, but shall be considered as included in the unit bid price for the item of construction involved.

Per SB 699 (90 day utility relocation law), once right-of-way is clear to award the project, a notice will be sent to the utility companies instructing them to have their facilities relocated within 90 days. Estimated date relocation complete = Letting Date + 135 days.

CADD data will be available to Contractors and Consultants working on this project. This information will be provided upon request as MicroStation CADD files and Geopak coordinate geometry files ONLY. If data is required in other formats it will be your responsibility to make these conversions. If any discrepancy or inconsistency arises between the electronic data and the information on the hard copy, the information on the hard copy should be used. Contact the District's Project Engineer to request these files.

FILE NAME = F:\CBBEL\WEST Projects\2009\124180_W09_IL18_Cv1\Ugr\Sh\209\BBF-int-gennote2.dgn



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PLOT DATE = 8/2/2010	DATE - 8/6/10	REVISED -

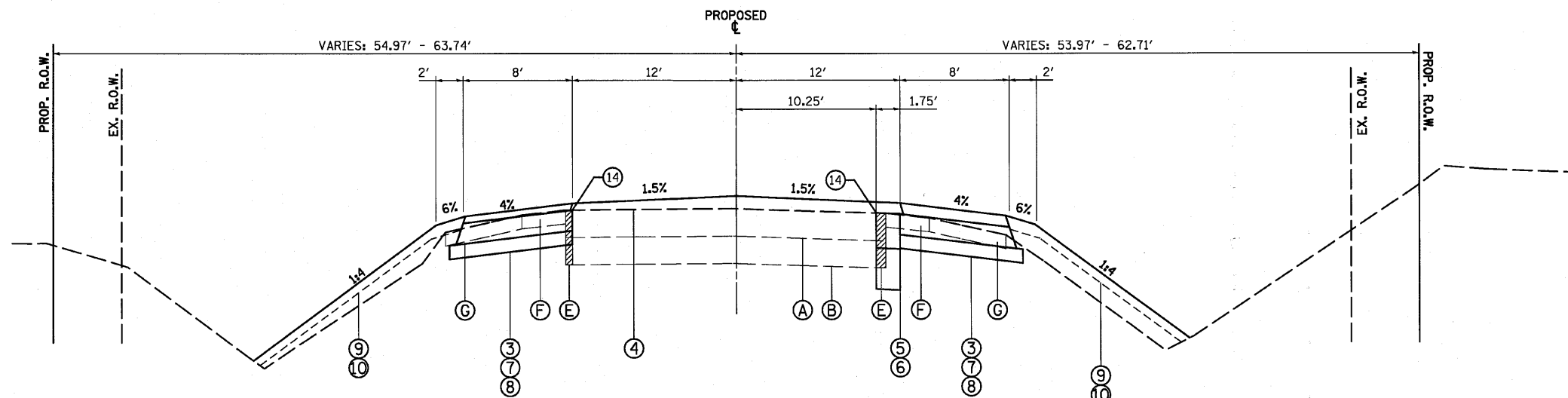
**STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION**

GENERAL NOTES

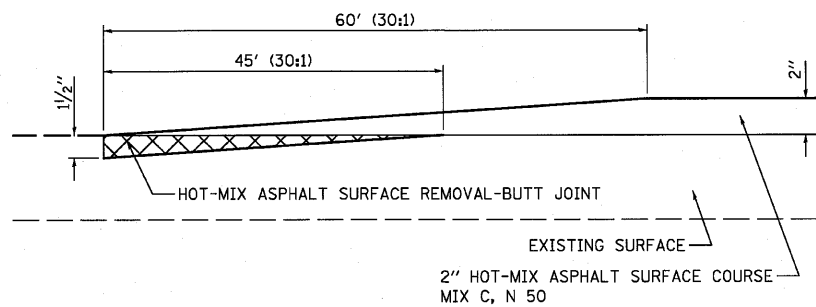
SCALE: SHEET NO. 8 OF 90 SHEETS STA. TO STA.

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
646	BBR-1	WHITESIDE	90	8
CONTRACT NO. 84854				
FED. ROAD DIST. NO. 2 ILLINOIS FED. AID PROJECT				

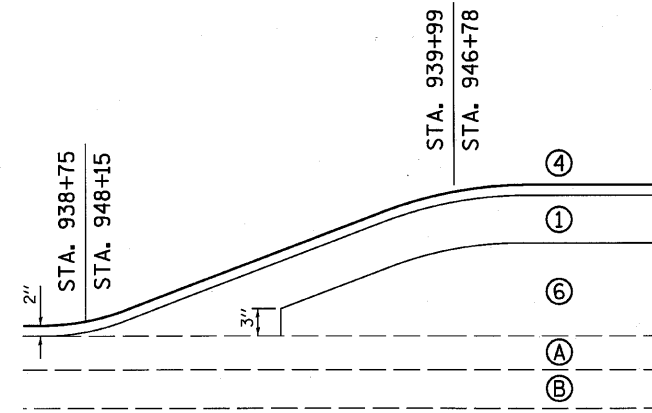
TYPICAL SECTIONS



ILLINOIS ROUTE 40
 STA. 936+40 TO STA. 938+75
 STA. 948+15 TO STA. 950+32



HMA SURFACE REMOVAL BUTT JOINT TYPICAL
 STA. 935+80 TO STA. 936+40
 STA. 950+32 TO STA. 950+92



PAVEMENT SECTION TRANSITION DETAIL

LEGEND, EXISTING

- (A) EXISTING HOT-MIX ASPHALT PAVEMENT (6"-8")
- (B) EXISTING PCC BASE (6" - 8")
- (C) EXISTING HMA SHOULDER
- (D) EXISTING AGGREGATE SHOULDER
- (E) EXISTING PAVEMENT STRUCTURE - TO BE REMOVED (44000100)
- (F) EXISTING HMA SHOULDER - TO BE REMOVED (44004250)
- (G) EXISTING AGGREGATE SHOULDER - TO BE REMOVED (20200100)

LEGEND, PROPOSED

- (1) 10-1/4" HMA BINDER COURSE, IL-19.0, N50 (40603080)
- (2) 1"-13 1/4 " HMA BINDER COURSE, IL-19.0, N50, (40603080)
- (3) 2" HMA SURFACE COURSE, MIX "C", N50, (40603310)
- (4) 2" HMA SURFACE COURSE, MIX "D", N50, (40603335)
- (5) HMA BASE COURSE WIDENING, 10 1/4 " (35600717)
- (6) SUB-BASE GRANULAR MATERIAL, TYPE A (31100100)
 CA-6 OR CA-10 (3" - TOP LAYER)
 CA-2 (9" - BOTTOM LAYER)
- (7) HOT-MIX ASPHALT SHOULDERS, 6" (48203021)
- (8) 4" AGGREGATE BASE COURSE, TYPE B (35101400)
- (9) TOPSOIL FURNISH AND PLACE, 4" (21101615)
- (10) SEEDING CLASS 2A OR 4 W/EROSION CONTROL BLANKET
- (11) STEEL PLATE BEAM GUARDRAIL, TYPE A (63000001 OR 63000003)
- (12) PAVEMENT BREAKING (44004300)
- (13) TEMPORARY PAVEMENT (SEE STAGING TYPICAL SECTIONS)
- (14) SAWCUT - FULL DEPTH (INCLUDED IN COST OF WORK ITEM)

HOT-MIX ASPHALT MIXTURE REQUIREMENTS

MIXTURE USE(S)	SURFACE	SHOULDER TOP LIFT	SHOULDER BOTTOM LIFT	HMA BINDER COURSE(S)	HMA BASE COURSE WIDENING	TEMP PAVEMENT (HMA OPTION)
PG:	PG 64-22	PG 58-22	PG 58-22	PG 64-22	PG 64-22	PG 64-22
DESIGN AIR VOIDS:	4.0@N50	3.0@N50	2.0@N50	4.0@N50	4.0@N50	4.0@N50
MIXTURE COMPOSITION:	IL 9.5 OR 12.5	IL 9.5 OR IL 12.5	BAM OR IL 19	IL 19	IL 19	IL 19
FRICTION AGGREGATE	D	C	N/A	N/A	N/A	N/A
20 YEAR ESAL	1.2	N/A	N/A	N/A	N/A	N/A

THE UNIT WEIGHT USED TO CALCULATE ALL HMA SURFACE MIXTURE QUANTITIES IS 112 LB/SQ YD/IN.

STRUCTURAL PAVEMENT DESIGN

STRUCTURAL DESIGN TRAFFIC: Year 2017
 PV = 5120 SU = 330 MU = 150
 ROAD/STREET CLASSIFICATION: MINOR ARTERIAL
 PERCENT OF STRUCTURAL DESIGN TRAFFIC IN DESIGN LANE:
 P = 91 S = 6 M = 3
 TRAFFIC FACTOR: Actual TF = AC Type = PG 64-22
 Minimum TF = NA
 PG GRADE: Surface = PG 64-22 /58-22 Binder = PG 64-22
 SUBGRADE SUPPORT RATING:
 SSR = POOR

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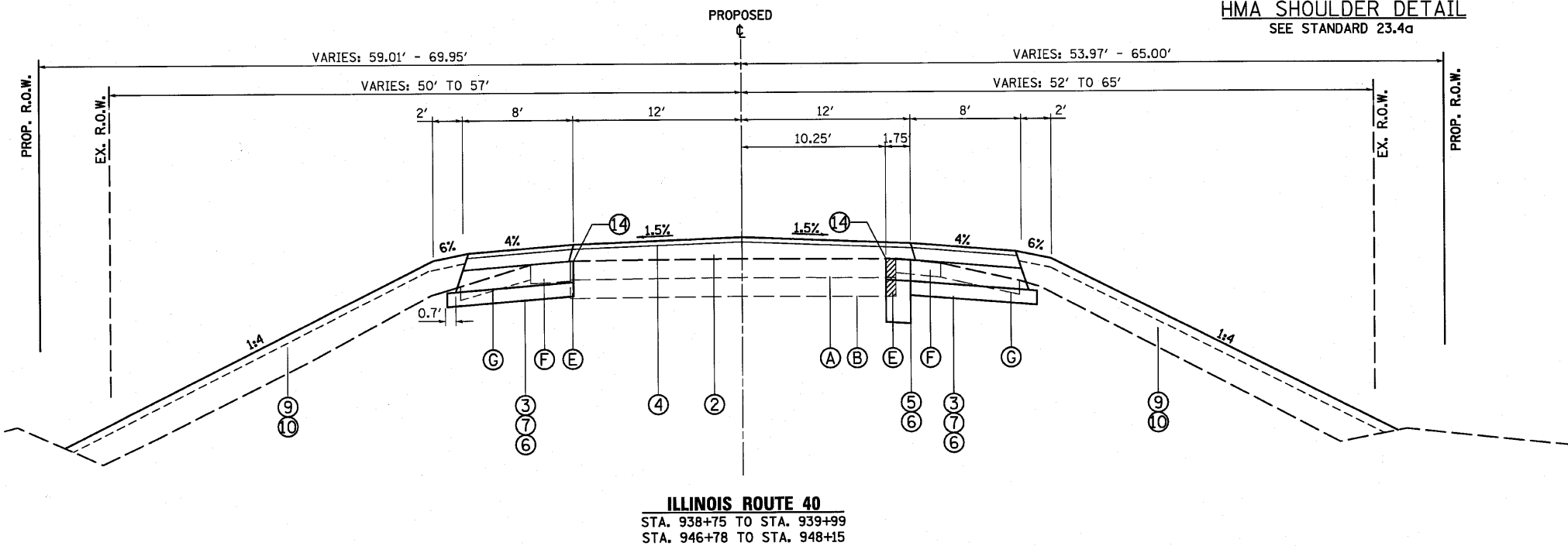
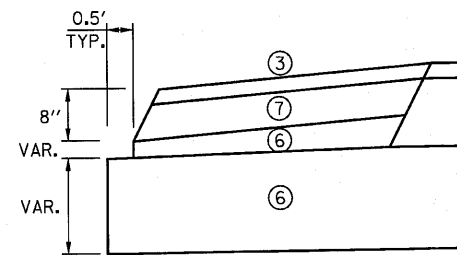
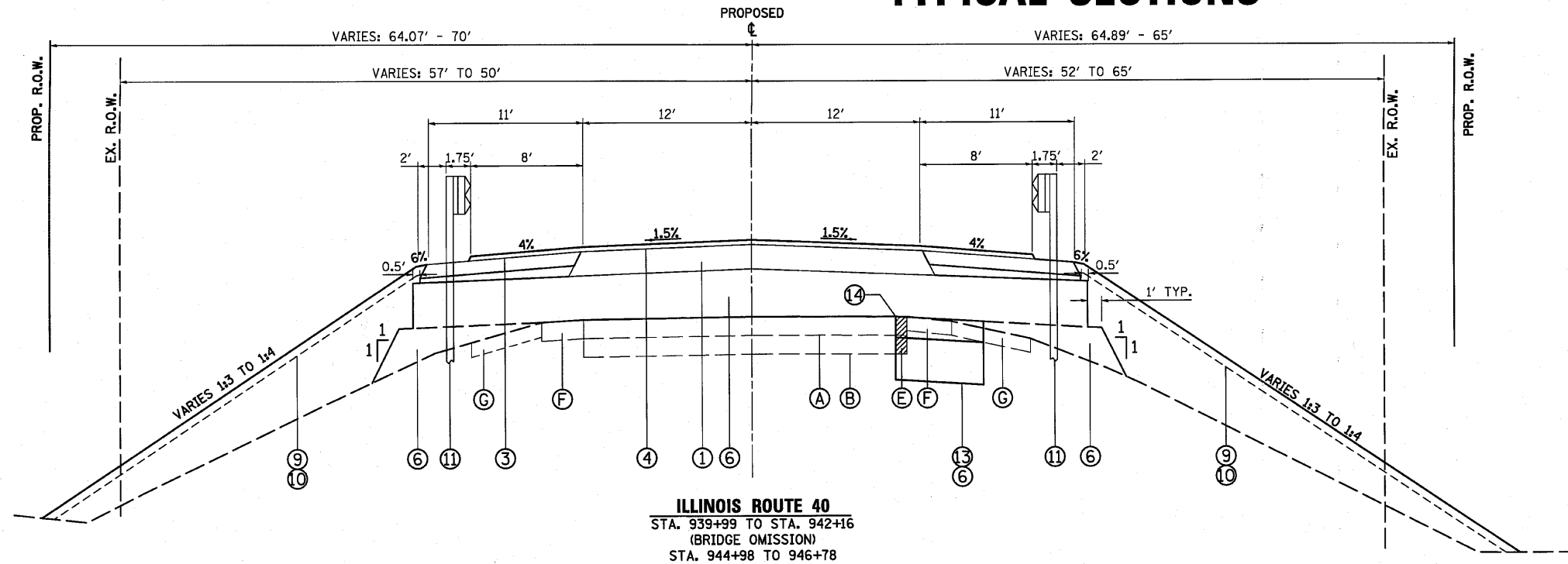
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	DATE - 8/6/10	REVISED -

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

TYPICAL SECTIONS

F.A. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
646	8BR-1	WHITESIDE	90	9
CONTRACT NO. 84854				
FED. ROAD DIST. NO. 2 ILLINOIS FED. AID PROJECT				

TYPICAL SECTIONS

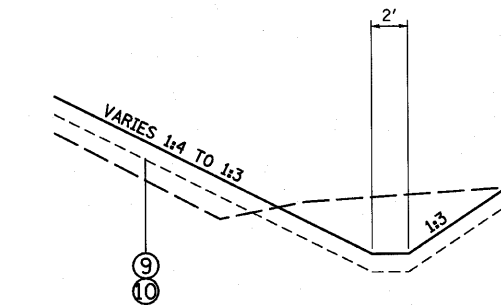


LEGEND, EXISTING

- (A) EXISTING HOT-MIX ASPHALT PAVEMENT (6"-8")
- (B) EXISTING PCC BASE (6" - 8")
- (C) EXISTING HMA SHOULDER
- (D) EXISTING AGGREGATE SHOULDER
- (E) EXISTING PAVEMENT STRUCTURE - TO BE REMOVED (44000100)
- (F) EXISTING HMA SHOULDER - TO BE REMOVED (44004250)
- (G) EXISTING AGGREGATE SHOULDER - TO BE REMOVED (20200100)

LEGEND, PROPOSED

- (1) 10-1/4" HMA BINDER COURSE, IL-19.0, N50 (40603080)
- (2) 1"-13 1/4 " HMA BINDER COURSE, IL-19.0, N50, (40603080)
- (3) 2" HMA SURFACE COURSE, MIX "C", N50, (40603310)
- (4) 2" HMA SURFACE COURSE, MIX "D", N50, (40603335)
- (5) HMA BASE COURSE WIDENING, 10 1/4 " (35600717)
- (6) SUB-BASE GRANULAR MATERIAL, TYPE A (31100100)
CA-6 OR CA-10 (3" - TOP LAYER)
CA-2 (9" - BOTTOM LAYER)
BREAKER RUN CRUSHED STONE (VAR. DEPTH)
- (7) HOT-MIX ASPHALT SHOULDERS, 6" (48203021)
- (8) 4" AGGREGATE BASE COURSE, TYPE B (35101400)
- (9) TOPSOIL FURNISH AND PLACE, 4" (21101615)
- (10) SEEDING CLASS 2A OR 4 W/EROSION CONTROL BLANKET
- (11) STEEL PLATE BEAM GUARDRAIL, TYPE A (63000001 OR 63000003)
- (12) PAVEMENT BREAKING (44004300)
- (13) TEMPORARY PAVEMENT (SEE STAGING TYPICAL SECTIONS)
- (14) SAWCUT - FULL DEPTH (INCLUDED IN COST OF WORK ITEM)



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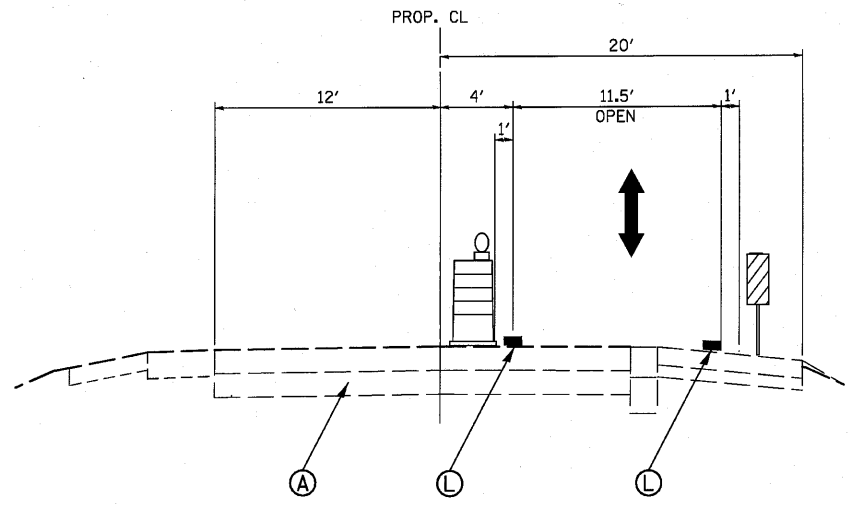
STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

TYPICAL SECTIONS

SCALE: SHEET NO. 10 OF 90 SHEETS STA. TO STA.

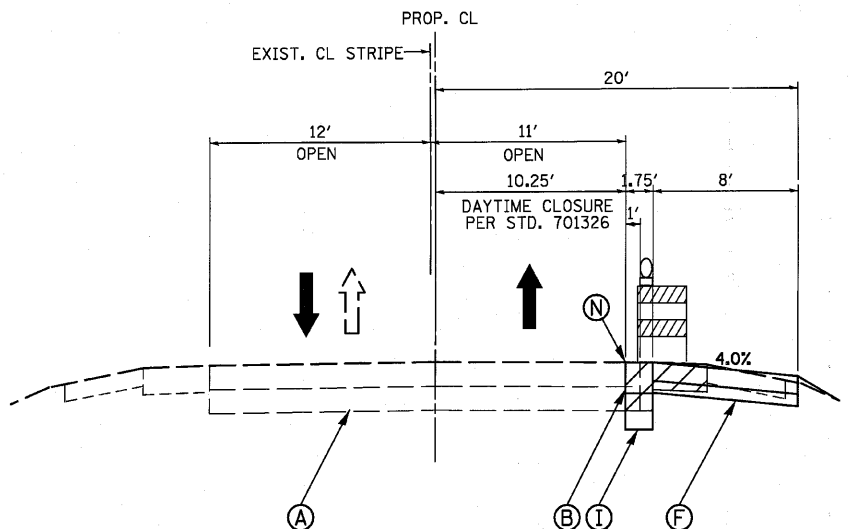
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646	8BR-1	WHITESIDE	90	10
CONTRACT NO. 84854				
FED. ROAD DIST. NO. 2 ILLINOIS FED. AID PROJECT				

STAGING TYPICAL SECTIONS



**STAGE 1
LANE SHIFT**

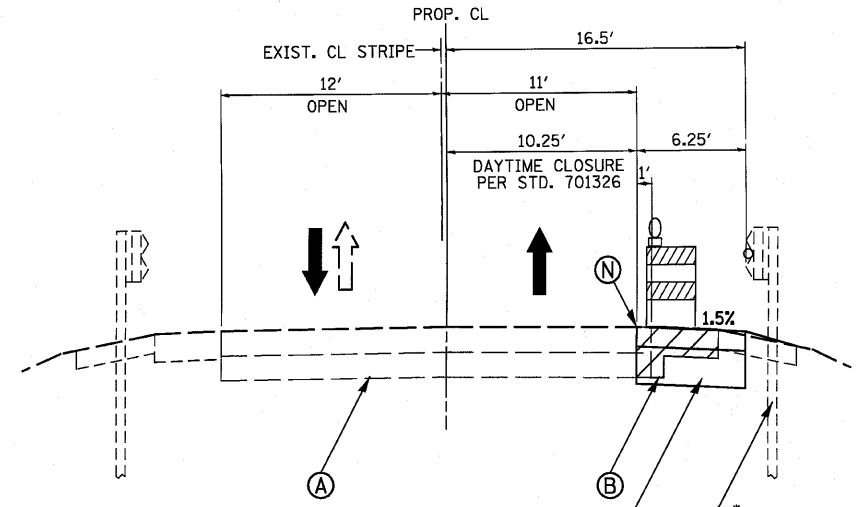
STA. 935+71 TO STA. 937+25
STA. 949+68 TO STA. 951+60



STAGE 1A

BASE COURSE WIDENING AND SHOULDER CONSTRUCTION

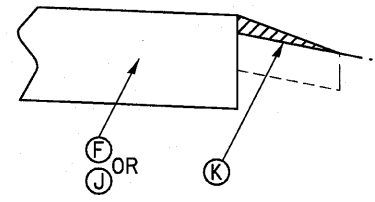
BASE COURSE WIDENING/SHOULDER: STA. 936+40 TO STA. 939+99
STA. 946+78 TO STA. 950+32



**STAGE 1A
TEMPORARY PAVEMENT**

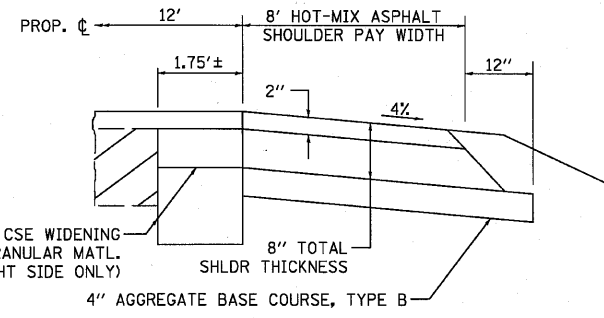
TEMP PAVEMENT: STA. 939+99 TO STA. 942+44
STA. 944+94 TO STA. 946+78

*EXIST. GUARDRAIL:
STA. 940+40 TO STA. 946+50, RT.
STA. 940+60 TO STA. 946+60 LT.
(TO BE REMOVED IN STAGE 1)



AGGREGATE WEDGE SHOULDER, TYPE B

TO BE CONSTRUCTED ADJACENT TO ALL TEMPORARY PAVEMENT WIDENING CONSTRUCTED WITH STAGE 1A AND 1B



BASE COURSE WIDENING AND SHOULDER DETAIL

STAGE 1A

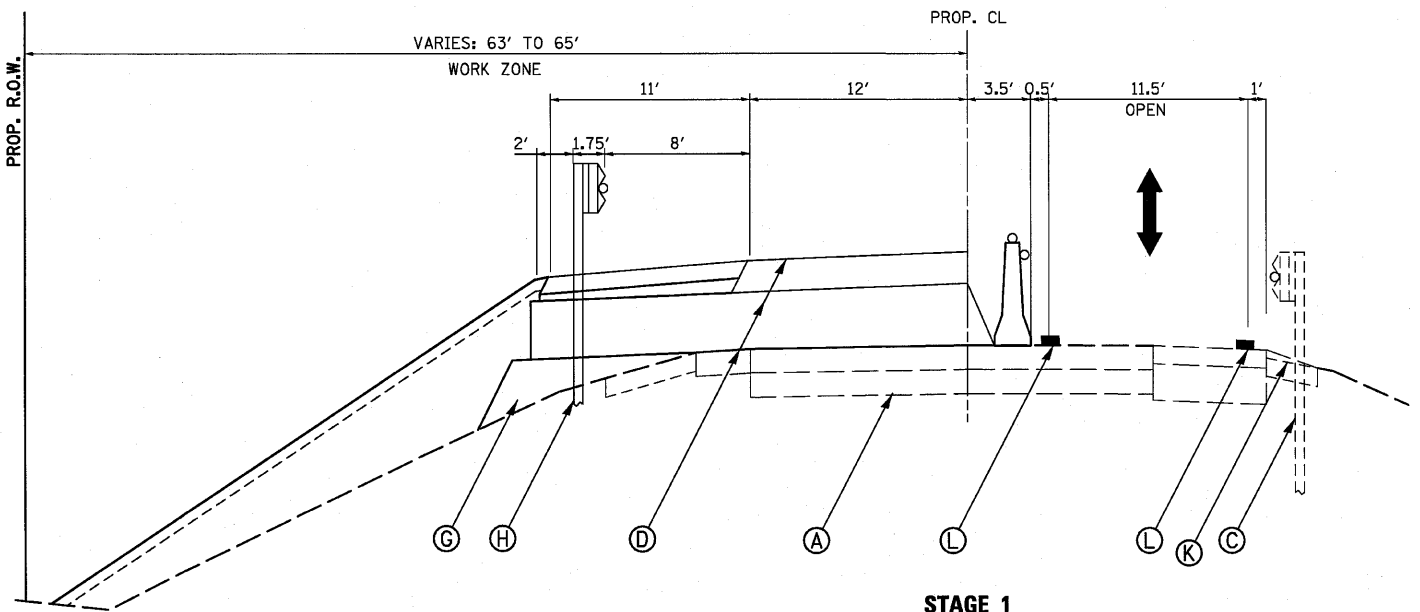
- REMOVE EXISTING PAVEMENT STRUCTURE FROM STA. 936+40, RT. TO STA. 942+44, RT. AND STA. 944+94, RT. TO STA. 950+32, RT. THE WORK SHALL BE COMPLETED UTILIZING TRAFFIC CONTROL STD 701326.
- CONSTRUCT HMA BASE COURSE WIDENING AND SHOULDER FROM 936+40, RT. TO STA. 939+99, RT. AND STA. 946+78, RT. TO STA. 950+32, RT. WORK TO BE COMPLETED UTILIZING TRAFFIC CONTROL STANDARD 701326.
- CONSTRUCT TEMP PAVEMENT FROM 939+99, RT. TO STA. 942+44, RT. AND STA. 944+94, RT. TO STA. 946+78, RT. WORK TO BE COMPLETED UTILIZING TRAFFIC CONTROL STANDARD 701326.
- CONSTRUCT AGGREGATE WEDGE SHOULDER, TYPE B ADJACENT TO THE TEMPORARY PAVEMENT AND SHOULDER.
- PLACE BARRICADES ADJACENT TO THE EDGE OF THE EXISTING PAVEMENT STRUCTURE UNTIL STAGE 1 IS INSTALLED.

STAGE 1

- SET UP STAGE 1 LANE SHIFT AND TRAFFIC CONTROL PLAN (SEE STAGE 1 MOT PLAN)
- SET UP TEMPORARY CONCRETE BARRIER WALL AND ATTENUATORS.
- SET TEMPORARY BRIDGE SIGNALS.
- INSTALL EROSION CONTROL DEVICES AS REQUIRED PRIOR TO BEGINNING CONSTRUCTION ACTIVITIES
- REMOVE ROADWAY PAVEMENTS
- REMOVE EXISTING GUARDRAIL LEFT OF THE CENTERLINE.
- CONSTRUCT BRIDGE AND APPROACH SLAB LEFT OF CENTERLINE
- CONSTRUCT SUBGRADE, AGGREGATE BASE COURSES, AND PAVEMENTS (BINDER COURSE ONLY) LEFT OF CENTERLINE.
- CONSTRUCT THE STEEL PLATE BEAM GUARDRAIL AND END TREATMENTS. CONSTRUCT HEIGHT OF GUARDRAIL BASED ON THE 2" SURFACE COURSE TO BE PLACED IN STAGE 3.
- PLACE TOPSOIL, SEEDING AND BLANKET LEFT OF THE CENTERLINE IN ITS ENTIRETY.

LEGEND

- (A) EXIST. PAVEMENT STRUCTURE
- (B) EXIST. PAVEMENT AND SHOULDER STRUCTURE - TO BE REMOVED
- (C) EXIST. GUARDRAIL W/PROP. GUARDRAIL MARKERS
- (D) PROP. PAVEMENT STRUCTURE (AGGREGATE BASE/HMA BINDER)
- (E) PROP. SURFACE COURSE
- (F) PROP. HOT MIX ASPHALT SHOULDER/AGGREGATE BASE COURSE
- (G) PROP. AGGREGATE SUB-BASE
- (H) PROP. STEEL PLATE BEAM GUARDRAIL, TYPE A W/GUARDRAIL MKRS.
- (I) PROP. BASE COURSE WIDENING
- (J) TEMPORARY PAVEMENT
- (K) AGGREGATE WEDGE SHOULDER, TYPE B
- (L) TEMPORARY PAVEMENT MARKING LINE
- (M) SAWCUT - FULL DEPTH
- (N) SHORT-TERM PAVEMENT MARKINGS



**STAGE 1
LANE CLOSURE - SOUTHBOUND**

STA. 937+75 TO STA. 942+44
STA. 944+95 TO STA. 949+18

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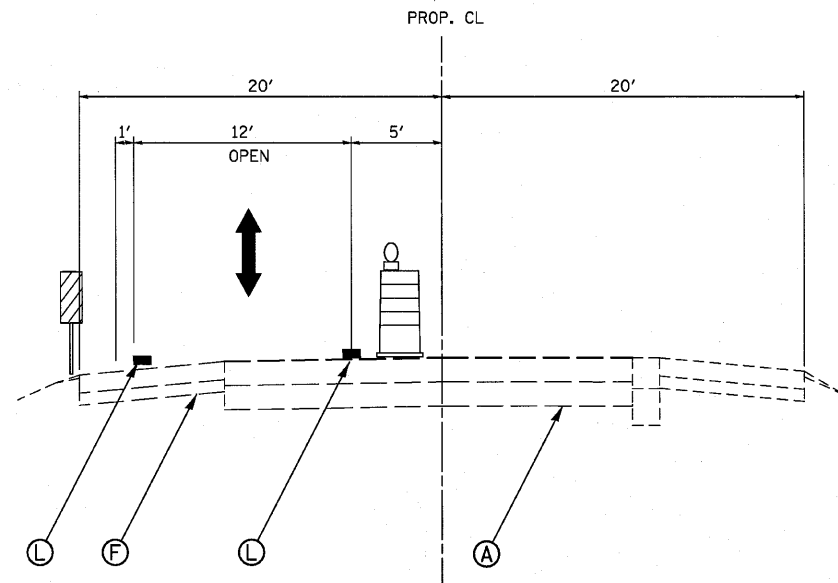
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**STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION**

MAINTENANCE OF TRAFFIC TYPICAL SECTIONS	
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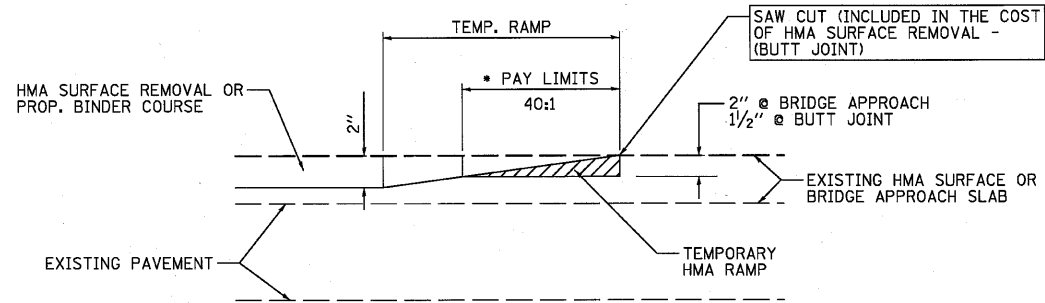
F.A. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
646	BBR-1	WHITESIDE	90	11
CONTRACT NO. 84854			ILLINOIS FED. AID PROJECT	

STAGING TYPICAL SECTIONS



STAGE 2 LANE SHIFT

STA. 935+09 TO STA. 937+25
STA. 949+50 TO STA. 951+10



TYPICAL TEMPORARY RAMP

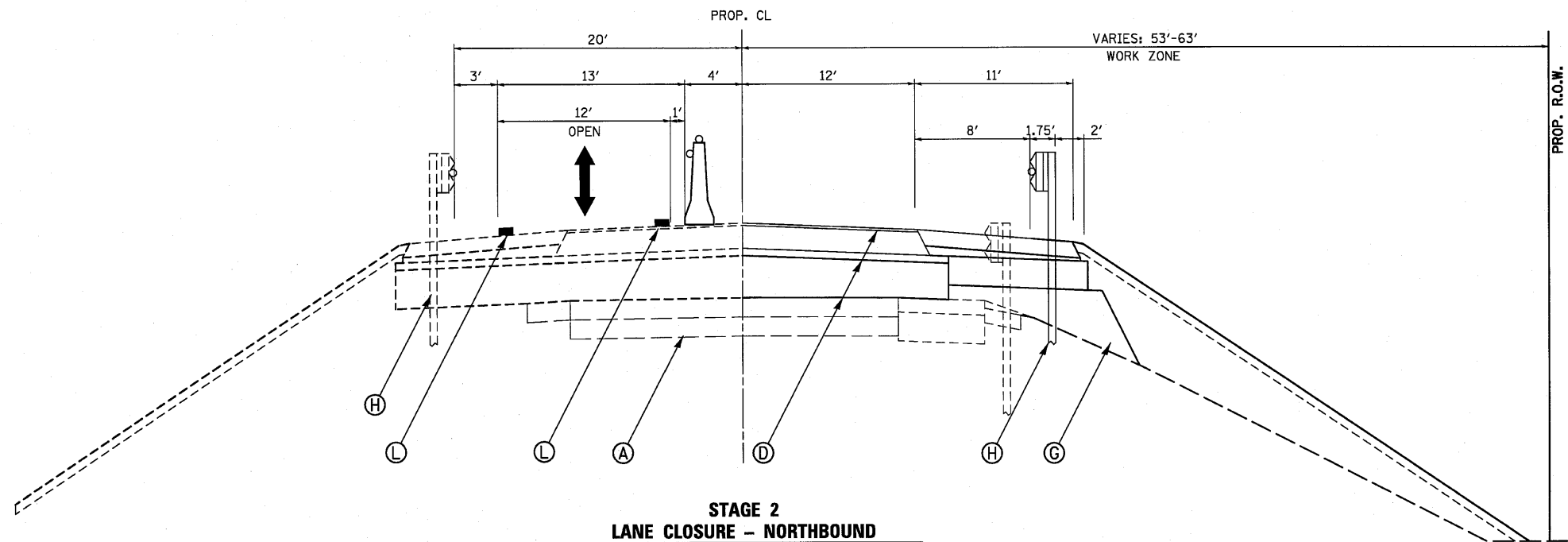
HMA CONSTRUCTED TEMPORARY RAMP
(FOR BUTT JOINT AND HMA TAPER)
• 6'-6" BRIDGE APPROACHS
5'-0" BUTT JOINTS

LEGEND

- (A) EXIST. PAVEMENT STRUCTURE
- (B) EXIST. PAVEMENT AND SHOULDER STRUCTURE - TO BE REMOVED
- (C) EXIST. GUARDRAIL W/PROP. GUARDRAIL MARKERS
- (D) PROP. PAVEMENT STRUCTURE (AGGREGATE BASE/HMA BINDER)
- (E) PROP. SURFACE COURSE
- (F) PROP. HOT MIX ASPHALT SHOULDER/AGGREGATE BASE COURSE
- (G) PROP. AGGREGATE SUB-BASE
- (H) PROP. STEEL PLATE BEAM GUARDRAIL, TYPE A W/GUARDRAIL MKRS.
- (I) PROP. BASE COURSE WIDENING
- (J) TEMPORARY PAVEMENT
- (K) AGGREGATE WEDGE SHOULDER, TYPE B
- (L) TEMPORARY PAVEMENT MARKING LINE
- (M) SAWCUT - FULL DEPTH
- (N) SHORT-TERM PAVEMENT MARKINGS

STAGE 2

- SET UP STAGE 2 LANE SHIFT AND TRAFFIC CONTROL PLAN (SEE STAGE 2 MOT PLANS).
- RELOCATE AND SET TEMPORARY CONCRETE BARRIER WALL.
- RELOCATE AND SET TEMPORARY BRIDGE SIGNALS.
- INSTALL EROSION CONTROL DEVICES AS REQUIRED PRIOR TO BEGINNING CONSTRUCTION ACTIVITIES
- REMOVE EXISTING GUARDRAIL RIGHT OF THE CENTERLINE.
- CONSTRUCT BRIDGE AND APPROACH SLAB RIGHT OF CENTERLINE
- CONSTRUCT SUBGRADE, AGGREGATE BASE COURSES, AND PAVEMENTS (BINDER COURSE ONLY) RIGHT OF CENTERLINE.
- CONSTRUCT THE STEEL PLATE BEAM GUARDRAIL AND END TREATMENTS, RIGHT OF CENTERLINE. CONSTRUCT HEIGHT OF GUARDRAIL BASED ON THE 2" SURFACE COURSE TO BE PLACED IN STAGE 3.
- PLACE TOPSOIL, SEEDING AND BLANKET RIGHT OF THE CENTERLINE IN ITS ENTIRETY.



STAGE 2 LANE CLOSURE - NORTHBOUND

STA. 936+67 TO STA. 942+16
STA. 944+99 TO STA. 949+96

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**STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION**

**MAINTENANCE OF TRAFFIC
TYPICAL SECTIONS**

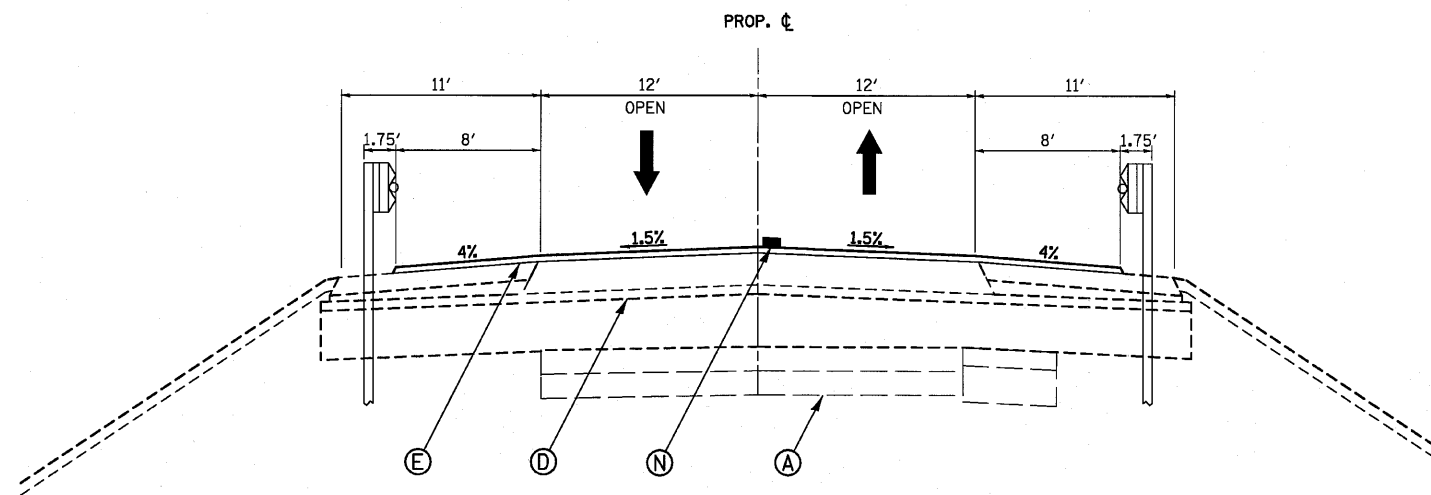
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F.A. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
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CONTRACT NO. 84854			FED. ROAD DIST. NO. 2 ILLINOIS FED. AID PROJECT	

STAGING TYPICAL SECTIONS

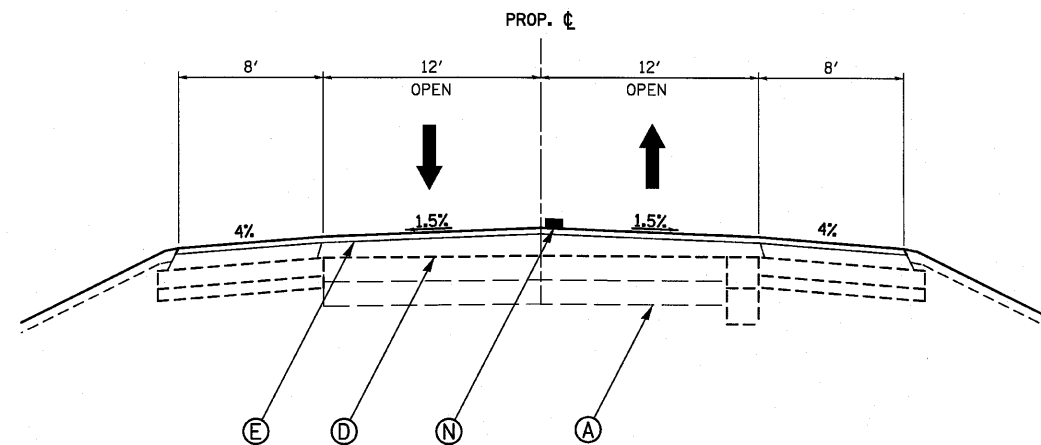
LEGEND

- (A) EXIST. PAVEMENT STRUCTURE
- (B) EXIST. PAVEMENT AND SHOULDER STRUCTURE - TO BE REMOVED
- (C) EXIST. GUARDRAIL W/PROP. GUARDRAIL MARKERS
- (D) PROP. PAVEMENT STRUCTURE (AGGREGATE BASE/HMA BINDER)
- (E) PROP. SURFACE COURSE
- (F) PROP. HOT MIX ASPHALT SHOULDER/AGGREGATE BASE COURSE
- (G) PROP. AGGREGATE SUB-BASE
- (H) PROP. STEEL PLATE BEAM GUARDRAIL, TYPE A W/GUARDRAIL MKRS.
- (I) PROP. BASE COURSE WIDENING
- (J) TEMPORARY PAVEMENT
- (K) AGGREGATE WEDGE SHOULDER, TYPE B
- (L) TEMPORARY PAVEMENT MARKING LINE
- (M) SAWCUT - FULL DEPTH
- (N) SHORT-TERM PAVEMENT MARKINGS



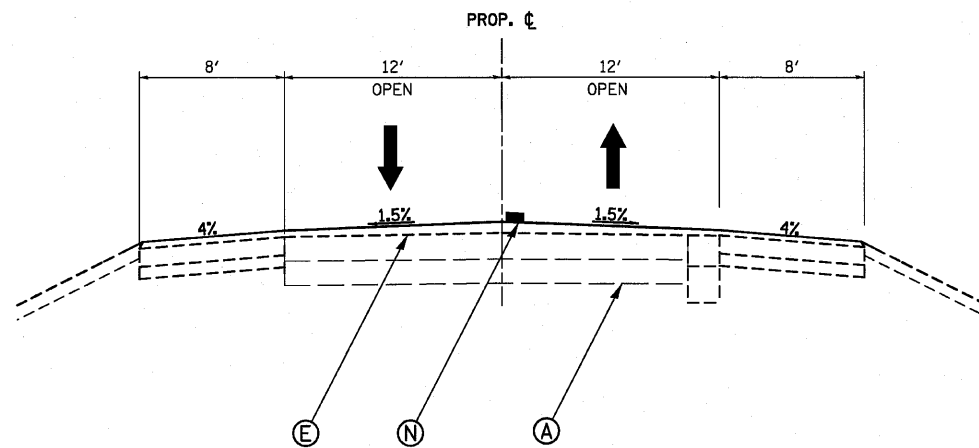
**STAGE 3
FINAL SURFACE COURSE**

STD. 701201
STA. 939+99 TO STA. 942+16
STA. 944+99 TO STA. 946+78



**STAGE 3
FINAL SURFACE COURSE**

STD. 701201
STA. 938+75 TO STA. 939+99
STA. 946+78 TO STA. 948+15

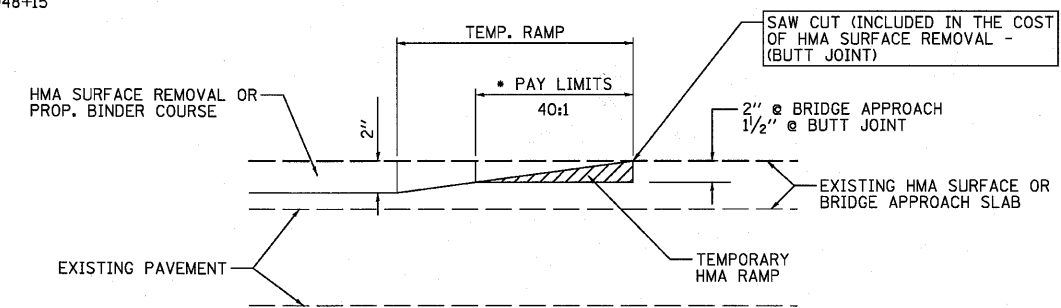


**STAGE 3
FINAL SURFACE COURSE**

STD. 701201
STA. 935+80 TO STA. 938+75
STA. 948+15 TO STA. 950+92

STAGE 3

- OPEN ALL LANES TO TRAFFIC FROM STA. 936+40 TO STA. 950+32.
- CONSTRUCT PAVEMENT SURFACE REMOVAL (BUTT JOINTS) AND TEMPORARY RAMPS STA. 935+80 TO STA. 936+40 AND STA. 950+32 TO STA. 950+92.
- MAINTENANCE OF TRAFFIC FOR THE BUTT JOINT CONSTRUCTION SHALL BE COMPLETED UTILIZING TRAFFIC CONTROL STD. 701201.
- APPLY BITUMINOUS TACK COAT. MAINTENANCE OF TRAFFIC FOR THE TACK COAT SHALL BE COMPLETED UTILIZING TRAFFIC CONTROL STD. 701201.
- CONSTRUCT HMA SURFACE COURSE FROM STA. 935+80 TO STA. 942+16 AND STA. 944+98 TO STA. 950+92. THIS WORK SHALL BE COMPLETED UTILIZING TRAFFIC CONTROL STANDARDS 701201.
- PLACE ALL PERMANENT PAVEMENT MARKINGS STA. 935+80 TO STA. 950+92.
- COMPLETE RESTORATION OF THE PROJECT AREA.
- REMOVE REMAINING CONSTRUCTION TRAFFIC CONTROL DEVICES AND SIGNAGE.



TYPICAL TEMPORARY RAMP

HMA CONSTRUCTED TEMPORARY RAMP (FOR BUTT JOINT AND HMA TAPER)

- 6'-6" BRIDGE APPROACHS
- 5'-0" BUTT JOINTS

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

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**STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION**

**MAINTENANCE OF TRAFFIC
TYPICAL SECTIONS**

SCALE: SHEET NO. 13 OF 90 SHEETS STA. TO STA.

F.A. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
646	BBR-1	WHITESIDE	90	13
CONTRACT NO. 84854				
FED. ROAD DIST. NO. 2 ILLINOIS FED. AID PROJECT				

SCHEDULE OF QUANTITIES

20100110 TREE REMOVAL (6 TO 15 UNITS DIAMETER)

UNIT	LOCATION	REMARKS
8	35.9' LT. STA. 944+53.44	
11	52.7' LT. STA. 944+82.93	
11	51.8' LT. STA. 945+33.95	
11	47.8' LT. STA. 945+56.98	
7	56.0' RT. STA. 944+69.94	
11	29.1' RT. STA. 945+53.22	
59	TOTAL	

21301052 EXPLORATION TRENCH 52" DEPTH

FOOT	LOCATION	REMARKS
50	935+80.00 TO 950+92.00	AS DIRECTED BY R.E.
50	TOTAL	

25000750 MOWING

ACRE	LOCATION	REMARKS
0.23	LT. STA. 935+80.00 TO 940+50.00	
0.20	RT. STA. 935+80.00 TO 940+50.00	
0.11	LT. STA. 940+50.00 TO 942+67.00	
0.11	RT. STA. 940+50.00 TO 942+67.00	
0.10	LT. STA. 943+87.33 TO 946+50.00	
0.10	RT. STA. 943+87.33 TO 946+50.00	
0.15	LT. STA. 946+50.00 TO 950+92.00	
0.16	RT. STA. 946+50.00 TO 950+92.00	
1.25	TOTAL	

25100900 TURF REINFORCEMENT MAT

SQ YD	LOCATION	REMARKS
40	LT. STA. 942+10.00	
40	RT. STA. 942+10.00	
80	TOTAL	

28000305 TEMPORARY DITCH CHECKS

FOOT	LOCATION	REMARKS
50	LT. STA. 935+80.00 TO 940+50.00	
0	RT. STA. 935+80.00 TO 940+50.00	
10	LT. STA. 940+50.00 TO 942+67.00	
0	RT. STA. 940+50.00 TO 942+67.00	
40	LT. STA. 943+87.33 TO 946+50.00	
40	RT. STA. 943+87.33 TO 946+50.00	
50	LT. STA. 946+50.00 TO 950+92.00	
50	RT. STA. 946+50.00 TO 950+92.00	
240	TOTAL	

28000400 PERIMETER EROSION BARRIER

FOOT	LOCATION	REMARKS
474	LT. STA. 935+80.00 TO 940+50.00	
466	RT. STA. 935+80.00 TO 940+50.00	
219	LT. STA. 940+50.00 TO 942+67.00	
218	RT. STA. 940+50.00 TO 942+67.00	
263	LT. STA. 943+87.33 TO 946+50.00	
226	RT. STA. 943+87.33 TO 946+50.00	
446	LT. STA. 946+50.00 TO 950+92.00	
450	RT. STA. 946+50.00 TO 950+92.00	
2,762	TOTAL	

42001430 BRIDGE APPROACH PAVEMENT CONNECTOR (FLEXIBLE)

SQ YD	LOCATION	REMARKS
28	STA. 942+10.13 TO 942+16.13	6' X 41.83'
28	STA. 944+98.63 TO 945+04.63	6' X 41.83'
56	TOTAL	

44000100 PAVEMENT REMOVAL

SQ FT	SQ YD	LOCATION	LENGTH FT	REMARKS
200.7	22.0	LT. STA. 936+40.00 TO 939+99.00	359	EXIST. PVMT
300.9	33.0	RT. STA. 936+40.00 TO 939+99.00	359	
460.8	51.0	STA. 942+16.10 TO 942+44.70	29	
547.8	61.0	STA. 944+69.20 TO 944+96.60	27	
188.3	21.0	LT. STA. 946+78.00 TO 950+32.00	354	
393.1	44.0	RT. STA. 946+78.00 TO 950+32.00	354	
232.0	TOTAL			

44000700 APPROACH SLAB REMOVAL

SQ FT	SQ YD	LOCATION	REMARKS
975.5	109.0	STA. 942+15.21 TO 942+66.89	NORTH SLAB
1022.2	114.0	STA. 944+43.64 TO 944+95.06	SOUTH SLAB
223.0	TOTAL		

44004250 PAVED SHOULDER REMOVAL

SQ FT	SQ YD	LOCATION	LENGTH FT	REMARKS
988.1	110.0	STA. 936+40.00 TO 939+99.00	359.0	
1187.4	132.0	STA. 936+40.00 TO 939+99.00	359.0	
1122.1	125.0	STA. 946+78.00 TO 950+32.00	354.0	
1047.1	116.0	STA. 946+78.00 TO 950+32.00	354.0	
483.0	TOTAL			

44004300 PAVEMENT BREAKING

SQ FT	SQ YD	LOCATION	REMARKS
1613.6	179.0	STA. 939+99.00 TO 940+50.00	SOUTH OF BRIDGE
5259.4	584.0	STA. 940+50.00 TO 942+16.10	
4759.3	529.0	STA. 944+98.60 TO 946+50.00	NORTH OF BRIDGE
883.7	98.0	STA. 946+50.00 TO 946+78.00	
1390.0	TOTAL		

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**STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION**

SCHEDULE OF QUANTITIES

SCALE: SHEET NO. 14 OF 90 SHEETS STA. TO STA.

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
646	8BR-1	WHITESIDE	90	14
CONTRACT NO. 84854				
FED. ROAD DIST. NO. 2 ILLINOIS FED. AID PROJECT				

SCHEDULE OF QUANTITIES

ITEM NO.	DESCRIPTION	EACH	LOCATION	TO	REMARKS	
60100060	CONCRETE HEADWALL FOR PIPE DRAINS	1	LT. STA. & OFFSET	942+43.13	45.0	
		1	RT. STA. & OFFSET	942+43.13	45.0	
		1	LT. STA. & OFFSET	937+00.00	45.0	
		1	RT. STA. & OFFSET	936+40.00	45.0	
		4	TOTAL			
60100915	PIPE DRAINS 6"	50	935+80.00	TO	950+92.00	
		50	TOTAL			
60100925	PIPE DRAINS 8"	50	935+80.00	TO	950+92.00	
		50	TOTAL			
61133100	FIELD TILE JUNCTION VAULTS, 2' DIA.	2	935+80.00	TO	950+92.00	
		2	TOTAL			
63000001	STEEL PLATE BEAM GUARD RAIL, TYPE A, 6 FOOT POSTS	50	LT. STA.	941+38.00	TO	941+88.00
		125	RT. STA.	940+63.00	TO	941+87.20
		50	RT. STA.	945+26.80	TO	945+76.80
		225	TOTAL			
63000003	STEEL PLATE BEAM GUARD RAIL, TYPE A, 9 FOOT POSTS	73	LT. STA.	945+26.80	TO	946+00.00
		52	LT. STA.	946+00.00	TO	946+51.80
		125	TOTAL			
63100085	TRAFFIC BARRIER TERMINAL, TYPE 6	1	LT. STA.	942+88.00	TO	942+31.10
		1	RT. STA.	942+88.00	TO	942+31.10
		1	LT. STA.	944+83.60	TO	945+26.80
		1	RT. STA.	944+83.60	TO	945+26.80
		4	TOTAL			
63100167	TRAFFIC BARRIER TERMINAL, TYPE 1 (SPECIAL) TANGENT	1	LT. STA.	940+88.00	TO	941+38.00
		1	RT. STA.	940+13.00	TO	940+63.00
		1	LT. STA.	946+51.80	TO	947+01.80
		1	RT. STA.	945+76.80	TO	946+26.80
		4	TOTAL			

ITEM NO.	DESCRIPTION	FOOT	LOCATION	TO	REMARKS			
63200310	GUARDRAIL REMOVAL	10	RT. STA.	940+40.90	TO	940+50.00		
		153	LT. STA.	940+63.70	TO	942+15.20		
		193	RT. STA.	940+50.00	TO	942+44.60		
		181	LT. STA.	944+69.30	TO	946+50.00		
		152	RT. STA.	944+94.90	TO	946+46.50		
		19	LT. STA.	946+50.00	TO	946+68.90		
		708	TOTAL					
		63500105	DELINEATORS	1	RT. STA.	940+11.20		
				1	LT. STA.	940+86.20		
				1	RT. STA.	946+28.50		
1	LT. STA.			947+03.50				
4	TOTAL							
66600105	FURNISHING AND ERECTING RIGHT-OF-WAY MARKERS	1	54.97' LT. STA.	937+00.00		RM1		
		1	33.97' RT. STA.	939+00.00		RM2		
		1	70.00' LT. STA.	940+00.00		RM3		
		1	35.00' RT. STA.	940+00.00		RM4		
		1	70.00' LT. STA.	945+00.00		RM5		
		1	35.00' RT. STA.	947+00.00		RM6		
		1	60.00' LT. STA.	948+00.00		RM7		
		1	30.00' RT. STA.	949+51.31		RM8		
		1	50.00' LT. STA.	949+51.46		RM9		
		9	TOTAL					
66700305	PERMANENT SURVEY MARKERS, TYPE II	2	LT./RT.	943+57.38		TO BE FIELD DETERMINED		
		2	TOTAL					
70106500	TEMPORARY BRIDGE TRAFFIC SIGNALS	1	LT./RT.	935+61.00	TO	951+20.00		
		1	TOTAL					
70106700	TEMPORARY RUMBLE STRIP	1	917+99.00					
		1	922+99.00					
		1	927+99.00					
		1	958+70.00					
		1	963+70.00					
		1	968+70.00					
6	TOTAL							

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WILLS BURKE KELSEY ASSOCIATES LTD.
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PLOT DATE = 8/2/2010		

**STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION**

SCHEDULE OF QUANTITIES	
SCALE:	SHEET NO. 15 OF 90 SHEETS STA. TO STA.

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
646	BBR-1	WHITESIDE	90	15
CONTRACT NO. 84854				
FED. ROAD DIST. NO. 2 ILLINOIS FED. AID PROJECT				

SCHEDULE OF QUANTITIES

70300100 SHORT-TERM PAVEMENT MARKING

FOOT	LOCATION	REMARKS
277	LT./RT. STA. 935+23.00 TO 951+70.00	STAGE 3 - SINGLE 4" WHITE
277	TOTAL	

70300220 TEMPORARY PAVEMENT MARKING - LINE 4"

FOOT	LOCATION	REMARKS
STAGE 1		
402	LT./RT. STA. 934+99.00 TO 937+00.00	SINGLE EDGE LINE - WHITE
1,200	LT./RT. STA. 937+00.00 TO 943+00.00	SINGLE EDGE LINE - WHITE
1,200	LT./RT. STA. 943+00.00 TO 949+00.00	SINGLE EDGE LINE - WHITE
540	LT./RT. STA. 949+00.00 TO 951+70.00	SINGLE EDGE LINE - WHITE
STAGE 2		
402	LT./RT. STA. 934+99.00 TO 937+00.00	SINGLE EDGE LINE - WHITE
1,200	LT./RT. STA. 937+00.00 TO 943+00.00	SINGLE EDGE LINE - WHITE
1,200	LT./RT. STA. 943+00.00 TO 949+00.00	SINGLE EDGE LINE - WHITE
540	LT./RT. STA. 949+00.00 TO 951+70.00	SINGLE EDGE LINE - WHITE
6,684	TOTAL	

70300280 TEMPORARY PAVEMENT MARKING - LINE 24"

FOOT	LOCATION	REMARKS
STAGE 1 & 2		
12	LT./RT. STA. 935+11.00	STAGE 1- STOP BAR -WHITE
12	LT./RT. STA. 951+70.00	STAGE 1- STOP BAR -WHITE
24	TOTAL	

70301000 WORK ZONE PAVEMENT MARKING REMOVAL

SQ FT	LOCATION	REMARKS
STAGE 1		
161	LT./RT. STA. 934+99.00 TO 937+00.00	MOT PAVEMENT MARKING REMOVAL 4"
20	LT./RT. STA. 937+00.00 TO 937+25.00	
162	LT./RT. STA. 949+68.00 TO 951+70.00	
STAGE 2		
161	LT./RT. STA. 934+99.00 TO 937+00.00	MOT PAVEMENT MARKING REMOVAL 4"
480	LT./RT. STA. 937+00.00 TO 943+00.00	
480	LT./RT. STA. 943+00.00 TO 949+00.00	
216	LT./RT. STA. 949+00.00 TO 951+70.00	
29	LT./RT. STA. 934+99.00 TO 934+99.00	MOT PAVEMENT MARKING REMOVAL 24"
29	LT./RT. STA. 951+70.00 TO 951+70.00	
STAGE 3		
5	LT./RT. STA. 935+23.00 TO 937+00.00	MOT SHORT TERM PAVEMENT MARKING REMOVAL
12	CL STA. 935+23.00 TO 937+00.00	
16	LT./RT. STA. 937+00.00 TO 943+00.00	
40	CL STA. 937+00.00 TO 943+00.00	
16	LT./RT. STA. 943+00.00 TO 949+00.00	
40	CL STA. 943+00.00 TO 949+00.00	
8	LT./RT. STA. 949+00.00 TO 951+70.00	
18	CL STA. 949+00.00 TO 951+70.00	
1,893	TOTAL	

70400100 TEMPORARY CONCRETE BARRIER

FOOT	LOCATION	REMARKS
100	STA. 936+75.00 TO 937+75.00	TAPER SECTION - STAGE 1
1,150	STA. 937+75.00 TO 949+25.00	TANGENT SECTION - STAGE 1
100	STA. 949+25.00 TO 950+25.00	TAPER SECTION - STAGE 1
1,350	TOTAL	

70400200 RELOCATE TEMPORARY CONCRETE BARRIER

FOOT	LOCATION	REMARKS
100	STA. 936+75.00 TO 937+75.00	TAPER SECTION - STAGE 2
1,125	STA. 937+75.00 TO 949+00.00	TANGENT SECTION - STAGE 2
100	STA. 949+00.00 TO 950+00.00	TAPER SECTION - STAGE 2
1,325	TOTAL	

78001110 PAINT PAVEMENT MARKING - LINE 4"

FOOT	LOCATION	REMARKS
WHITE		
1700	LT. STA. 935+00.00 TO 952+00.00	
1700	RT. STA. 935+00.00 TO 952+00.00	
YELLOW		
425	CL STA. 935+00.00 TO 952+00.00	SKIP DASHES
3400	CL STA. 935+00.00 TO 952+00.00	NO PASSING ZONE AS DETERMINED BY DISTRICT 2
14450	TOTAL	(2 APPLICATIONS)

78100100 RAISED REFLECTIVE PAVEMENT MARKER

EACH	LOCATION	REMARKS
9	935+00.00 TO 942+16.10	80 FOOT SPACING
9	944+98.60 TO 952+00.00	
18	TOTAL	

78100105 RAISED REFLECTIVE PAVEMENT MARKER (BRIDGE)

EACH	LOCATION	REMARKS
4	942+16.10 TO 944+98.60	80 FOOT SPACING
4	TOTAL	

78200410 GUARDRAIL MARKERS, TYPE A

EACH	LOCATION	REMARKS
3	RT. STA. 940+11.20 TO 942+31.10	
3	LT. STA. 940+86.20 TO 942+31.10	
3	RT. STA. 944+83.60 TO 946+28.50	
3	LT. STA. 944+83.60 TO 947+03.50	
12	TOTAL	

78200520 BARRIER WALL MARKERS, TYPE B

EACH	LOCATION	REMARKS
6	LT. STA. 942+46.10 TO 944+68.60	2 MARKERS AT EACH INTERVAL
6	RT. STA. 942+46.10 TO 944+68.60	
12	TOTAL	

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**STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION**

SCHEDULE OF QUANTITIES	
SCALE:	SHEET NO. 16 OF 90 SHEETS STA. TO STA.

F.A.P. RTE. 646	SECTION 8BR-1	COUNTY WHITESIDE	TOTAL SHEETS 90	SHEET NO. 16
CONTRACT NO. 84854				
FED. ROAD DIST. NO. 2 ILLINOIS FED. AID PROJECT				

SCHEDULE OF QUANTITIES

78201000 TERMINAL MARKER - DIRECT APPLIED

<u>EACH</u>	<u>LOCATION</u>		<u>REMARKS</u>
1	RT. STA.	940+11.20	
1	LT. STA.	940+86.20	
1	RT. STA.	946+28.50	
1	LT. STA.	947+03.50	
4	TOTAL		

78300100 PAVEMENT MARKING REMOVAL

<u>SQ FT</u>	<u>LOCATION</u>		<u>REMARKS</u>
17	STA.	935+11.00 TO 936+71.00	
13	STA.	950+00.00 TO 951+54.00	
84	STA.	942+41.86 TO 944+95.00	
60	STA.	927+60.00 TO 936+60.00	
50	STA.	950+15.00 TO 957+65.00	
224	TOTAL		

78300200 RAISED REFLECTIVE PAVEMENT MARKER REMOVAL

<u>EACH</u>	<u>LOCATION</u>		<u>REMARKS</u>
6	STA.	935+80.00 TO 940+50.00	
7	STA.	940+50.00 TO 946+50.00	
6	STA.	946+50.00 TO 950+92.00	
18	TOTAL		

Z0018700 DRAINAGE STRUCTURE TO BE REMOVED

<u>EACH</u>	<u>LOCATION</u>	<u>REMARKS</u>
1	35.36' LT. STA 944+49.13	CONCRETE ENERGY DISAPATOR - DITCH FLOW
1	TOTAL	

Z0025500 FURNISHING AND INSTALLING PROPERTY MAKERS

<u>EACH</u>	<u>LOCATION</u>		<u>REMARKS</u>
5	LT./RT. STA.	935+80.00 TO 950+92.00	AS NEEDED
5	TOTAL		

Z0030250 IMPACT ATTENUATORS, TEMPORARY (NON-REDIRECTIVE), TEST LEVEL 3

<u>EACH</u>	<u>LOCATION</u>	<u>REMARKS</u>
1	LT. STA.	936+85.00
1	LT. STA.	950+18.00
2	TOTAL	STAGE 1

Z0030350 IMPACT ATTENUATORS, RELOCATE (NON- REDIRECTIVE), TEST LEVEL 3

<u>EACH</u>	<u>LOCATION</u>	<u>REMARKS</u>
1	LT. STA.	936+67.00
1	LT. STA.	949+96.00
2	TOTAL	STAGE 2

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**STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION**

SCHEDULE OF QUANTITIES

SCALE: SHEET NO. 17 OF 90 SHEETS STA. TO STA.

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
646	8BR-1	WHITESIDE	90	17
CONTRACT NO.84854				

FED. ROAD DIST. NO. 2 ILLINOIS FED. AID PROJECT

EARTHWORK SCHEDULE

LOCATION	20200100	EARTH EXCAVATION ADJUSTED FOR SHRINKAGE	EARTH EMBANKMENT (FILL)	EARTHWORK BALANCE WASTE (+) or SHORTAGE (-)	20400800	31100100	25000210	25000310	25100630	28000250	21101615
	EARTH EXCAVATION				FURNISHED EXCAVATION	SUB-BASE GRANULAR MATERIAL, TYPE A	SEEDING CLASS 2A	SEEDING CLASS 4	EROSION CONTROL BLANKET	TEMPORARY EROSION CONTROL SEEDING	TOPSOIL FURNISH AND PLACE, 4"
	(CU YD)	(CU YD)	(CU YD)	(CU YD)	(CU YD)	(TON)	(ACRE)	(ACRE)	(SQ YD)	(POUND)	(SQ YD)
STAGE 1A (IL 40)											
936+40.00 - 940+00.00	90.4	67.8		67.8	-67.8						
940+00.00 - 946+00.00	83.8	62.8	0.0	62.8	-62.8						
946+00.00 - 950+92.00	112.0	84.0	0.0	84.0	-84.0						
MAINLINE (IL 40)											
936+40.00 - 940+00.00	71.3	53.5	73.3	-19.8	19.8	47.5					
940+00.00 - 946+00.00	389.0	291.7	1,590.3	-1,298.6	1,298.6	2,306.2					
946+00.00 - 950+92.00	629.7	472.3	230.4	241.8	-241.8	387.0					
SEEDING PLAN (IL 40)											
936+40.00 - 940+50.00							0.42	0.01	2,129	221	2,129
940+50.00 - 946+50.00							0.42	0.17	2,812	224	2,812
946+50.00 - 950+92.00							0.32	0.08	1,940	269	1,940
TOTALS	1,376	1,032	1,894	-862	862	2,741	1.25	0.50	8,470	714	8,470

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 25% FOR THIS PROJECT, ARE ESTIMATED FOR THE 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.

TESTING OF SUBGRADES AND EMBANKMENTS WILL BE REQUIRED. TESTING REQUIREMENTS WILL BE PER THE APPLICABLE SECTIONS OF THE STANDARD SPECIFICATIONS AND THE SUBGRADE STABILITY MANUAL. IF PROFF ROLLS ARE REQUIRED BY THE ENGINEER, THE COST SHALL BE CONSIDERED INCIDENTAL TO THE CONTRACT.

EARTH EXCAVATION 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.

FILE NAME = P:\CBBEL WEST Projects\2009\121021_09_IL 40\Civil\09\10\p\Sh\A\2084854-11r-schedule5.dgn



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	DRAWN -	REVISED -
PLOT SCALE =	CHECKED -	REVISED -
PLOT DATE = 8/2/2010	DATE - 8/6/10	REVISED -

**STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION**

EARTHWORK SCHEDULE

SCALE: SHEET NO. 18 OF 90 SHEETS STA. TO STA.

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
646	8BR-1	WHITESIDE	90	18
CONTRACT NO. 84854				

FED. ROAD DIST. NO. 2 ILLINOIS FED. AID PROJECT

BITUMINOUS SCHEUDLE (1 OF 2)

LOCATION	OFF.	REMARKS	LENGTH	WIDTH	AREA	35101400	35600717	40600200	40600300	40600982	40600990	40603080	40603310	40603335	48102100	48203021	X0712400	X0919000
						AGGREGATE BASE COURSE, TYPE B	HOT-MIX ASPHALT BASE COURSE WIDENING, 10 1/4"	BITUMINOUS MATERIALS (PRIME COAT)	AGGREGATE (PRIME COAT)	HOT-MIX ASPHALT SURFACE REMOVAL - BUTT JOINT	TEMPORARY RAMP	HOT-MIX ASPHALT BINDER COURSE, IL-19.0, N50	HOT-MIX ASPHALT SURFACE COURSE, MIX "C", N50	HOT-MIX ASPHALT SURFACE COURSE, MIX "D", N50	AGGREGATE WEDGE SHOULDERS, TYPE B	HOT-MIX ASPHALT SHOULDERS, 6"	TEMPORARY PAVEMENT	TEMPORARY PAVEMENT REMOVAL
			(FT)	(FT)	(SY)	(TON)	(SQ YD)	(TON)	(TON)	(SQ YD)	(SQ YD)	(TON)	(TON)	(TON)	(TON)	(SQ YD)	(SQ YD)	(SQ YD)
IL 40																		
935+80.00 - 936+00.00		At Butt-Joint	20.00	VAR	52.52			0.04	0.21			0.22		5.88				
936+00.00 - 936+40.00		At Butt-Joint	40.00	VAR	106.02			0.08	0.42			1.05		11.87				
936+40.00 - 936+50.00		Mainline	10.00	24	26.67			0.02	0.11			0.97		2.99				
936+50.00 - 937+00.00		Mainline	50.00	24	133.33			0.10	0.53			11.39		14.93				
937+00.00 - 937+50.00		Mainline	50.00	24	133.33			0.10	0.53			17.36		14.93				
937+50.00 - 938+00.00		Mainline	50.00	24	133.33			0.10	0.53			18.67		14.93				
938+00.00 - 938+50.00		Mainline	50.00	24	133.33			0.10	0.53			17.18		14.93				
938+50.00 - 939+00.00		Mainline	50.00	24	133.33			0.10	0.53			22.03		14.93				
939+00.00 - 939+50.00		Mainline	50.00	24	133.33			0.10	0.53			44.05		14.93				
939+50.00 - 940+00.00		Mainline	50.00	24	133.33			0.10	0.53			78.22		14.93				
940+00.00 - 940+50.00		Mainline	50.00	24	133.33			0.18	0.53			76.53		14.93				
940+50.00 - 941+00.00		Mainline	50.00	24	133.33			0.18	0.53			76.53		14.93				
941+00.00 - 941+50.00		Mainline	50.00	24	133.33			0.18	0.53			76.53		14.93				
941+50.00 - 942+00.00		Mainline	50.00	24	133.33			0.18	0.53			76.53		14.93				
942+00.00 - 942+16.13		Mainline	16.13	24	43.01			0.06	0.17			24.69		4.82				
942+16.13 - 944+98.63		Bridge Omission	282.50															
944+98.63 - 945+00.00		Mainline	1.37	24	3.65			0.00	0.01			2.10		0.41				
945+00.00 - 945+50.00		Mainline	50.00	24	133.33			0.18	0.53			76.53		14.93				
945+50.00 - 946+00.00		Mainline	50.00	24	133.33			0.18	0.53			76.53		14.93				
946+00.00 - 946+50.00		Mainline	50.00	24	133.33			0.18	0.53			76.53		14.93				
946+50.00 - 947+00.00		Mainline	50.00	24	133.33			0.18	0.53			86.99		14.93				
947+00.00 - 947+50.00		Mainline	50.00	24	133.33			0.18	0.53			66.83		14.93				
947+50.00 - 948+00.00		Mainline	50.00	24	133.33			0.10	0.53			24.27		14.93				
948+00.00 - 948+50.00		Mainline	50.00	24	133.33			0.10	0.53			8.02		14.93				
948+50.00 - 949+00.00		Mainline	50.00	24	133.33			0.10	0.53			7.46		14.93				
949+00.00 - 949+50.00		Mainline	50.00	24	133.33			0.10	0.53			9.90		14.93				
949+50.00 - 950+00.00		Mainline	50.00	24	133.33			0.10	0.53			13.81		14.93				
950+00.00 - 950+32.00		Mainline	32.00	24	85.33			0.07	0.34			8.61		9.56				
950+32.00 - 950+50.00		At Butt-Joint	18.00	VAR	47.86			0.04	0.19			2.08		5.36				
950+50.00 - 950+92.00		At Butt-Joint	42.00	VAR	110.26			0.09	0.44			0.00		12.35				
Shoulders, HMA																		
935+80.00 - 936+40.00	LT	At Butt-Joint	60.00	Var. 3' to 8'	21.63			0.03	0.09			2.42				21.63		
935+80.00 - 936+40.00	RT	At Butt-Joint	60.00	Var. 3' to 8'	31.46			0.04	0.13			3.52						
936+40.00 - 940+00.00	LT	Mainline	360.00	8	320.00			0.43	1.28			35.84				320.00		
936+40.00 - 940+00.00	RT	Mainline	360.00	Var. 8' to 11.5'	324.09			0.44	1.30			36.30						
940+00.00 - 942+31.13	LT	Mainline	231.13	Var. 2.08' to 12'	251.19			0.34	1.00			28.13				251.19		
940+00.00 - 942+31.13	RT	Mainline	231.13	Var. 2.08' to 12'	272.10			0.37	1.09			30.48				272.10		
944+83.63 - 946+00.00	LT	Mainline	116.37	Var. 2.08' to 12'	127.37			0.17	0.51			14.27				127.37		
944+83.63 - 946+00.00	RT	Mainline	116.37	Var. 11' to 12'	127.53			0.17	0.51			14.28				127.53		
946+00.00 - 946+78.00	LT	Mainline	78.00	Var. 12' to 8'	95.80			0.13	0.38			10.73				95.80		
946+00.00 - 946+78.00	RT	Mainline	78.00	Var. 12' to 8'	90.99			0.12	0.36			10.19				90.99		
946+78.00 - 950+32.00	LT	Mainline	354.00	Var. 12' to 8'	335.00			0.45	1.34			37.52				335.00		
946+78.00 - 950+32.00	RT	Mainline	354.00	8	314.67			0.43	1.26			35.24						
950+32.00 - 950+92.00	LT	At Butt-Joint	60.00	Var. 8' to 3'	22.44			0.03	0.09			2.51				22.44		
950+32.00 - 950+92.00	RT	At Butt-Joint	60.00	Var. 8' to 3'	19.38			0.03	0.08			2.17						
Shoulders, HMA, Base																		
936+40.00 - 936+50.00	LT	Mainline	10.00	9'-2"		2.07												
936+50.00 - 937+00.00	LT	Mainline	50.00	9'-2"		10.33												
937+00.00 - 937+50.00	LT	Mainline	50.00	9'-2"		10.33												
937+50.00 - 938+00.00	LT	Mainline	50.00	9'-2"		10.33												
938+00.00 - 938+50.00	LT	Mainline	50.00	9'-2"		10.33												
SUB-TOTAL						43	0	6	22	0	0	1,002	264	367	0	1,664	0	0

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**STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION**

BITUMINOUS SCHEDULE

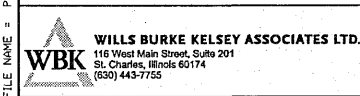
SCALE: SHEET NO. 19 OF 90 SHEETS STA. TO STA.

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
646	BBR-1	WHITESIDE	90	19
CONTRACT NO. 84854				
FED. ROAD DIST. NO. 2 ILLINOIS FED. AID PROJECT				

BITUMINOUS SCHEUDLE (2 OF 2)

LOCATION	OFF.	REMARKS	LENGTH	WIDTH	AREA	35101400	35600717	40600200	40600300	40600982	40600990	40603080	40603310	40603335	48102100	48203021	X0712400	X0919000
						AGGREGATE BASE COURSE, TYPE B	HOT-MIX ASPHALT BASE COURSE WIDENING, 10 1/4"	BITUMINOUS MATERIALS (PRIME COAT)	AGGREGATE (PRIME COAT)	HOT-MIX ASPHALT SURFACE REMOVAL - BUTT JOINT	TEMPORARY RAMP	HOT-MIX ASPHALT BINDER COURSE, IL-19.0, N50	HOT-MIX ASPHALT SURFACE COURSE, MIX "C", N50	HOT-MIX ASPHALT SURFACE COURSE, MIX "D", N50	AGGREGATE WEDGE SHOULDERS, TYPE B	HOT-MIX ASPHALT SHOULDERS, 6"	TEMPORARY PAVEMENT	TEMPORARY PAVEMENT REMOVAL
			(FT)	(FT)	(SY)	(SY)	(SQ YD)	(TON)	(TON)	(SQ YD)	(SQ YD)	(TON)	(TON)	(TON)	(TON)	(SQ YD)	(SQ YD)	(SQ YD)
Shoulders, HMA, Base																		
938+50.00 - 939+00.00	LT	Mainline	50.00	9'-2"		10.33												
939+00.00 - 939+50.00	LT	Mainline	50.00	9'-2"		15.66												
939+50.00 - 939+99.00	LT	Mainline	49.00	9'-2"		20.90												
946+78.00 - 947+00.00	LT	Mainline	22.00	9'-2"		30.44												
947+00.00 - 947+50.00	LT	Mainline	50.00	9'-2"		37.84												
947+50.00 - 948+00.00	LT	Mainline	50.00	9'-2"		10.49												
948+00.00 - 948+50.00	LT	Mainline	50.00	9'-2"		10.33												
948+50.00 - 949+00.00	LT	Mainline	50.00	9'-2"		10.33												
949+00.00 - 949+50.00	LT	Mainline	50.00	9'-2"		10.33												
949+50.00 - 950+00.00	LT	Mainline	50.00	9'-2"		10.33												
950+00.00 - 950+32.00	LT	Mainline	32.00	9'-2"		6.61												
Stage 1A																		
Temporary Ramps																		
936+40.00 - 936+45.00		At Butt-Joint	5.00	30.00	16.67						16.39							
950+27.00 - 950+32.00		At Butt-Joint	5.00	30.00	16.67						16.47							
942+09.50 - 942+16.00		Bridge	6.50	40.00	28.89						22.89							
944+98.00 - 945+04.50		Bridge	6.50	40.00	28.89						22.63							
Stage 1A																		
Butt Joints																		
936+40.00 - 936+85.00		At Butt-Joint	45.00	30.00	150.00					147.40								
950+47.00 - 950+92.00		At Butt-Joint	45.00	30.00	150.00					147.30								
Stage 1A																		
Shoulders, Wedge																		
936+40.00 - 937+00.00	RT	Adj. to Temp.	60.00	4.0	26.67										4.00			
937+00.00 - 942+44.60	RT	Pvt. and	544.60	4.0	242.04										36.31			
944+95.00 - 949+00.00	RT	Stage 1	405.00	4.0	180.00										27.00			
949+00.00 - 950+32.00	RT	HMA Shoulder	132.00	4.0	58.67										8.80			
Stage 1A																		
Temporary Pavement																		
940+00.00 - 942+44.60	RT		244.60	6.25	169.86												169.86	
944+92.20 - 946+78.00	RT		185.80	6.25	129.03												129.03	
Stage 2																		
Temp. Pavement Removal																		
942+16.13 - 942+44.63	RT																	18.50
944+92.09 - 944+98.60	RT																	3.50
Stage 1A																		
Shoulder, HMA																		
936+40.00 - 940+00.00	RT		360.00	8.00	320.00												320.00	
946+78.00 - 950+32.00	RT		354.00	8.00	314.67												314.67	
Stage 1A																		
Shoulder Base																		
936+40.00 - 940+00.00	RT		360.00	9.00	360.00	72.00												
946+78.00 - 950+32.00	RT		354.00	9.00	354.00	70.80												
Stage 1A																		
Base Course Widening																		
936+40.00 - 940+00.00	RT		360.00	1.75	70.00		70.00											
946+78.00 - 950+32.00	RT		354.00	1.75	68.83		68.83											
Field Entrance																		
936+46.00	RT				93.06	37.22												
SUB-TOTAL						354	139	0	0	295	79	0	0	0	76	635	299	22
TOTAL						397	139	6	22	295	79	1,002	264	367	76	2,299	299	22

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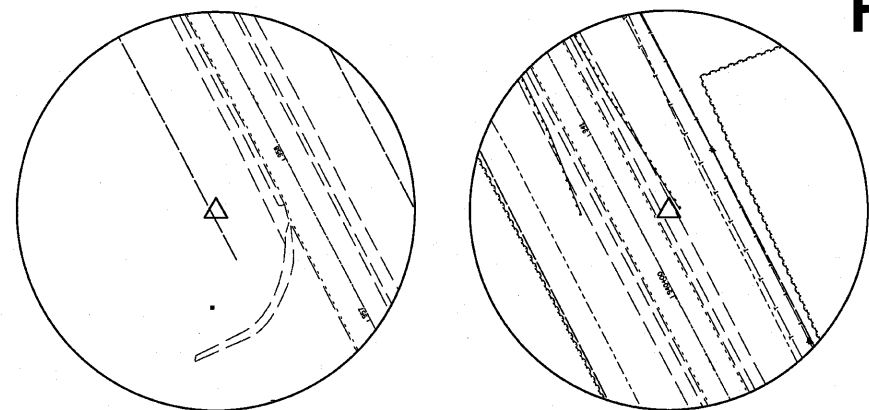
**STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION**

BITUMINOUS SCHEDULE

SCALE: SHEET NO. 20 OF 90 SHEETS STA. TO STA.

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
646	8BR-1	WHITESIDE	90	20
CONTRACT NO. 84854				
FED. ROAD DIST. NO. 2 ILLINOIS FED. AID PROJECT				

HORIZONTAL AND VERTICAL CONTROL



HORIZONTAL CONTROL POINT NO. 1

HORIZONTAL CONTROL POINT NO. 2

CURVE POINT NUMBERS					
CHAIN	CURVE	PI	CC	PC	PT
IL40	210	210	211	212	213
IL40	220	220	221	222	223
IL40	230	230	231	232	233

REFERENCE TIES					
POINT	CHAIN	STATION	OFFSET	DESCRIPTION	

HORIZONTAL CONTROL POINTS							
POINT	NORTH	EAST	ELEVATION	CHAIN	STATION	OFFSET	DESCRIPTION
1	1886098.7970	2422202.9530	678.1730	IL40	957+92.60	47.4829' LT	GPS CONTROL POINT, GPS CONTROL POINT
2	1884581.7130	2423076.8970	657.2039	IL40	940+43.05	18.6655' RT	GPS CONTROL POINT

SURVEY WORK POINTS							
POINT	NORTH	EAST	ELEVATION	CHAIN	STATION	OFFSET	DESCRIPTION
100	1884825.3800	2422943.7460	659.6530	IL40	943+20.69	14.427' RT	TOPO SURVEY POINT, TOPO SURVEY POINT
101	1884924.4280	2422891.5580	660.5220	IL40	944+32.64	14.4174' RT	TOPO SURVEY POINT, TOPO SURVEY POINT
102	1884897.5580	2423176.2970	648.1100	IL40	942+76.16	253.8159' RT	TOPO SURVEY POINT, TOPO SURVEY POINT
103	1883952.8770	2422569.8330	650.4260	IL40	937+23.01	723.0407' LT	TOPO SURVEY POINT, TOPO SURVEY POINT
104	1884757.3740	2423489.3670	651.0540	IL40	940+06.22	465.4677' RT	TOPO SURVEY POINT, TOPO SURVEY POINT
105	1884782.3540	2422934.5210	659.4110	IL40	942+86.92	13.788' LT	TOPO SURVEY POINT, TOPO SURVEY POINT
106	1884903.7680	2423005.7010	641.6620	IL40	943+61.17	105.776' RT	TOPO SURVEY POINT, TOPO SURVEY POINT

BENCH MARKS							
POINT	NORTH	EAST	ELEVATION	CHAIN	STATION	OFFSET	DESCRIPTION
401	1886045.5140	2422200.9110	679.4461	IL40	957+46.41	74.1233' LT	R.O.W. MARKER, R.O.W. MARKER
402	1884919.0130	2422858.9040	658.5722	IL40	944+43.07	16.9969' LT	R.O.W. MARKER

Curve Data

Curve 210
 P.I. Station 915+30.11 N 1,882,337.0028 E 2,424,238.2820
 Delta = 28° 04' 23.81" (LT)
 Degree = 4° 00' 29.26"
 Tangent = 357.3830'
 Length = 700.4088'
 Radius = 1,429.4898'
 External = 43.9971'
 Long Chord = 693.4236'
 Mid. Ord. = 42.6834'
 P.C. Station 911+72.73 N 1,881,979.6245 E 2,424,236.4504
 P.T. Station 918+73.14 N 1,882,653.1961 E 2,424,071.7157
 C.C. N 1,881,986.9507 E 2,422,806.9793

Course from PT 210 to PC 220 N 27° 46' 46.68" W Dist 4,354.7916'

Curve Data

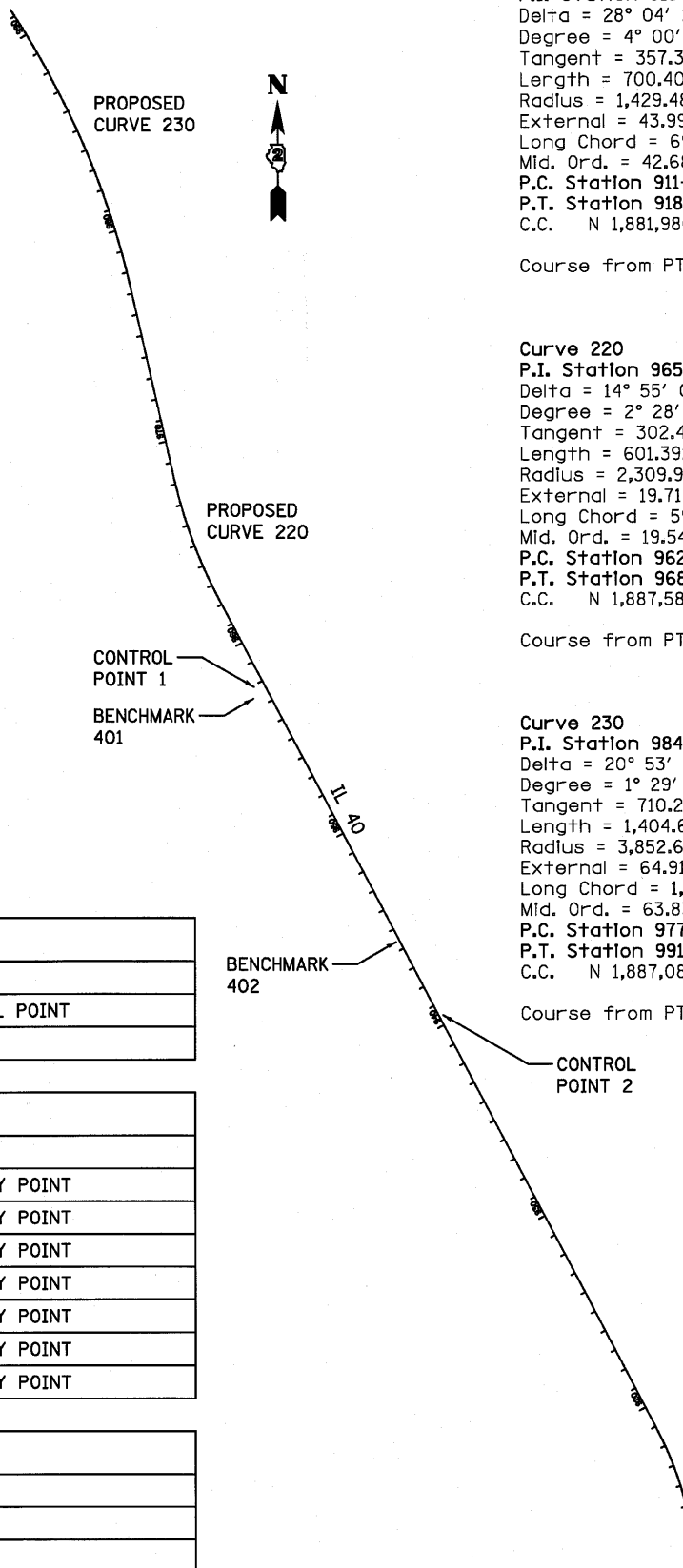
Curve 220
 P.I. Station 965+30.34 N 1,886,773.6365 E 2,421,901.1253
 Delta = 14° 55' 01.85" (RT)
 Degree = 2° 28' 49.59"
 Tangent = 302.4062'
 Length = 601.3922'
 Radius = 2,309.9030'
 External = 19.7110'
 Long Chord = 599.6951'
 Mid. Ord. = 19.5442'
 P.C. Station 962+27.93 N 1,886,506.0836 E 2,422,042.0685
 P.T. Station 968+29.32 N 1,887,068.4546 E 2,421,833.8063
 C.C. N 1,887,582.6651 E 2,424,085.7475

Course from PT 220 to PC 230 N 12° 51' 44.84" W Dist 899.6439'

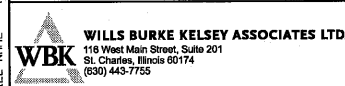
Curve Data

Curve 230
 P.I. Station 984+39.18 N 1,888,637.9197 E 2,421,475.4330
 Delta = 20° 53' 22.91" (LT)
 Degree = 1° 29' 13.80"
 Tangent = 710.2171'
 Length = 1,404.6646'
 Radius = 3,852.6815'
 External = 64.9151'
 Long Chord = 1,396.8975'
 Mid. Ord. = 63.8394'
 P.C. Station 977+28.97 N 1,887,945.5239 E 2,421,633.5354
 P.T. Station 991+33.63 N 1,889,228.4289 E 2,421,080.8353
 C.C. N 1,887,087.8734 E 2,417,877.5281

Course from PT 230 to PC 240 N 33° 45' 07.75" W Dist 1,305.5167'



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	DATE - 8/6/10	REVISED -

**STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION**

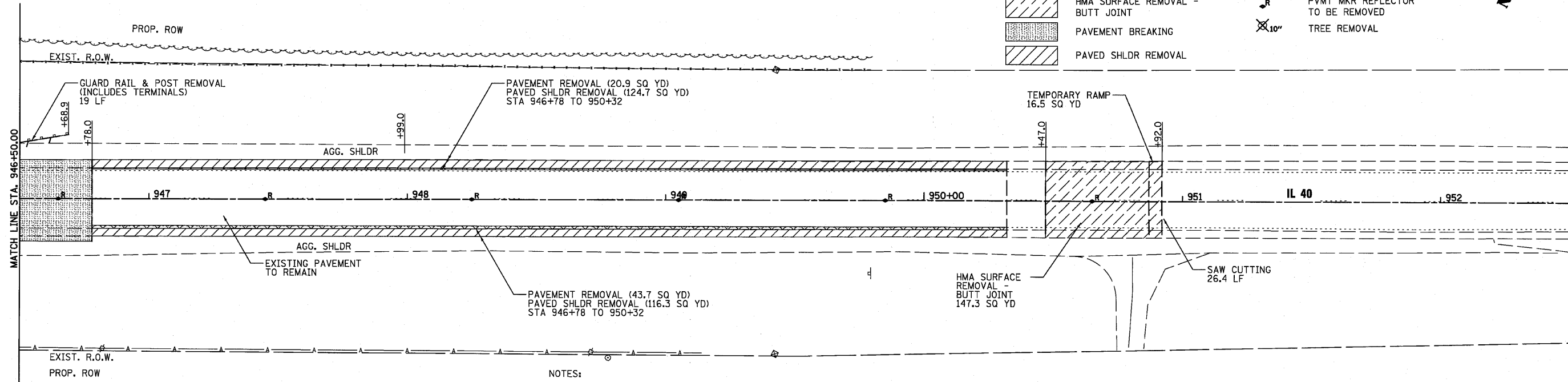
HVC SHEET

SCALE: SHEET NO. 21 OF 90 SHEETS STA. TO STA.

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
646	8BR-1	WHITESIDE	90	21
CONTRACT NO. 84854				
FED. ROAD DIST. NO. 2 ILLINOIS FED. AID PROJECT				

REMOVAL PLAN

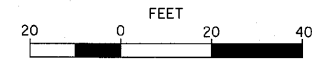
LEGEND	
	PAVEMENT REMOVAL
	HMA SURFACE REMOVAL - BUTT JOINT
	PAVEMENT BREAKING
	PAVED SHLDR REMOVAL
	GUARDRAIL REMOVAL
	PVMT MKR REFLECTOR TO BE REMOVED
	TREE REMOVAL



NOTES:

- HMA SURFACE REMOVAL - BUTT JOINT AND TEMPORARY RAMP ARE NOT TO BE COMPLETED UNTIL SURFACE COURSE CONSTRUCTION IN STAGE 3.
- SAWCUT WILL NOT BE MEASURED SEPARATELY FOR PAYMENT BUT SHALL BE CONSIDERED IN THE APPLICABLE REMOVAL ITEM.

GRAPHIC SCALE



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	DATE - 8/6/10	REVISED -

**STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION**

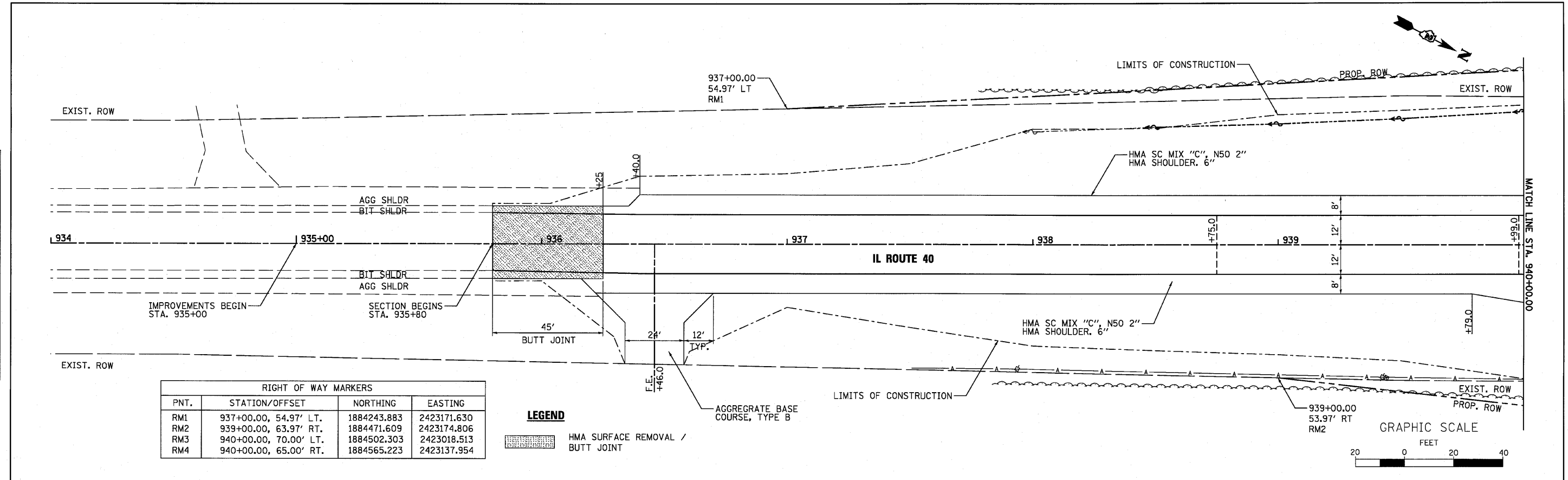
REMOVAL PLAN

SCALE: SHEET NO. 23 OF 90 SHEETS STA. TO STA.

F.A. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
646	BBR-1	WHITESIDE	90	23
CONTRACT NO.84854				
FED. ROAD DIST. NO. 2 ILLINOIS FED. AID PROJECT				

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BY	
REVISIONS	
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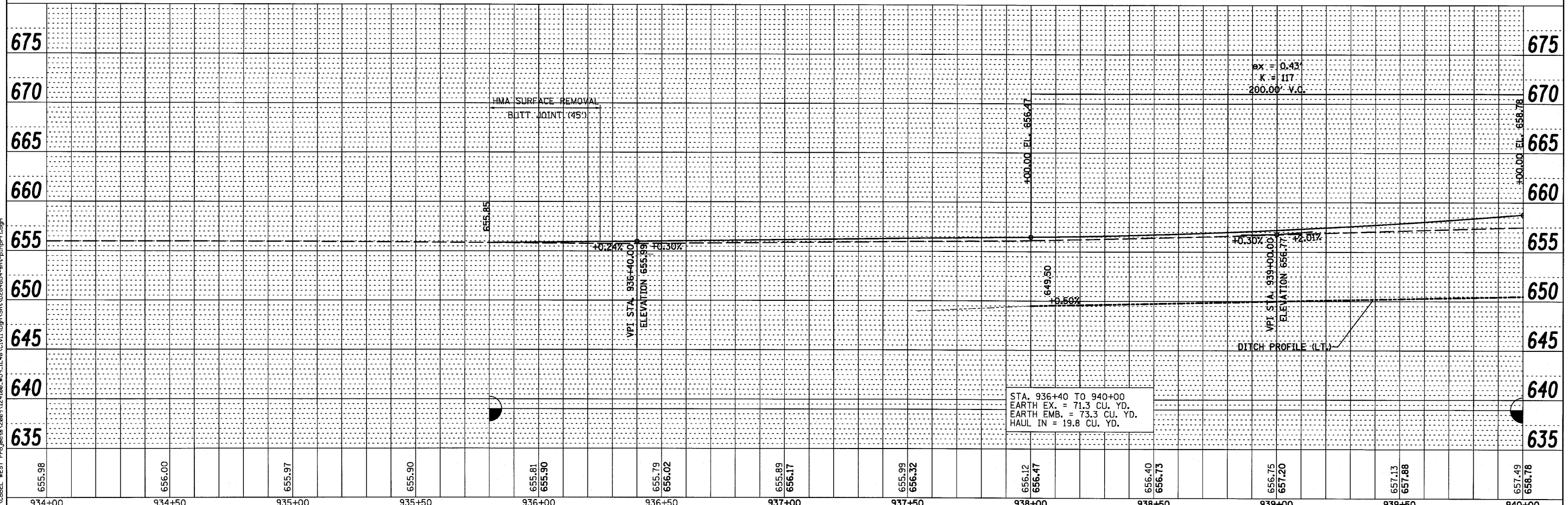
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RIGHT OF WAY MARKERS			
PNT.	STATION/OFFSET	NORTHING	EASTING
RM1	937+00.00, 54.97' LT.	1884243.883	2423171.630
RM2	939+00.00, 63.97' RT.	1884471.609	2423174.806
RM3	940+00.00, 70.00' LT.	1884502.303	2423018.513
RM4	940+00.00, 65.00' RT.	1884565.223	2423137.954

LEGEND

HMA SURFACE REMOVAL / BUTT JOINT



934+00	934+50	935+00	935+50	936+00	936+50	937+00	937+50	938+00	938+50	939+00	939+50	940+00
655.98	656.00	655.97	655.90	655.81 655.90	655.79 656.02	655.89 656.17	655.99 656.32	656.12 656.47	656.40 656.73	656.75 657.20	657.13 657.88	657.49 658.78

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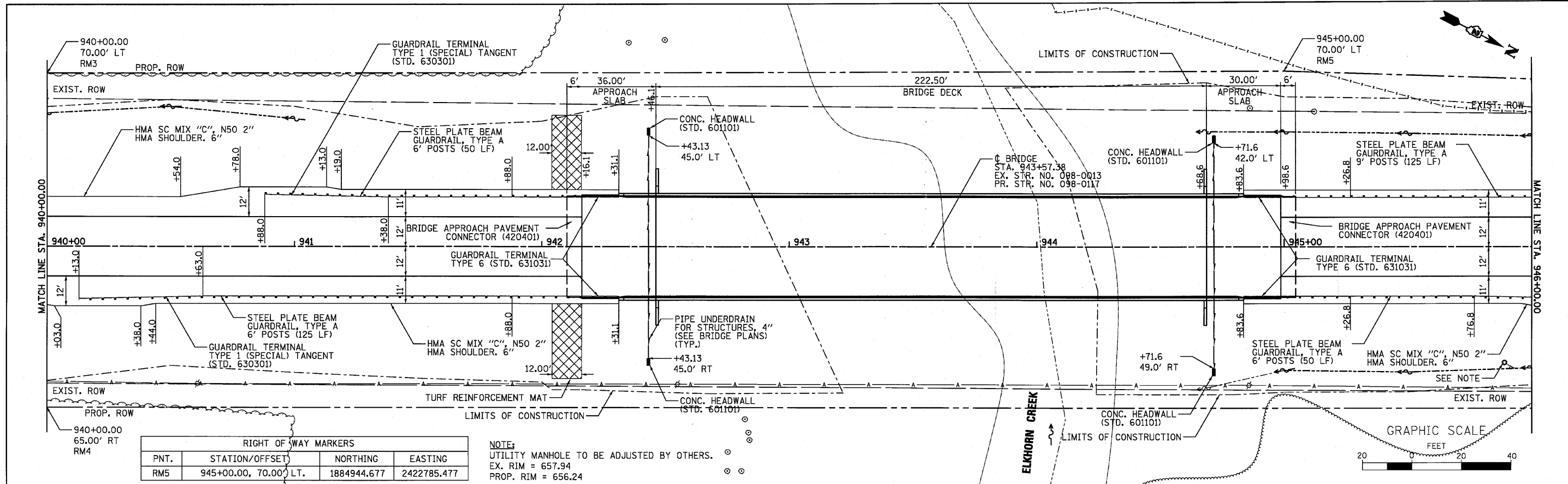
STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

PLAN & PROFILE	
SCALE:	SHEET NO. 24 OF 90 SHEETS
STA.	TO STA.

F.A.P. RTE. 646	SECTION 8BR-1	COUNTY WHITESIDE	TOTAL SHEETS 90	SHEET NO. 24
CONTRACT NO. 84854				
FED. ROAD DIST. NO. 2 ILLINOIS FED. AID PROJECT				

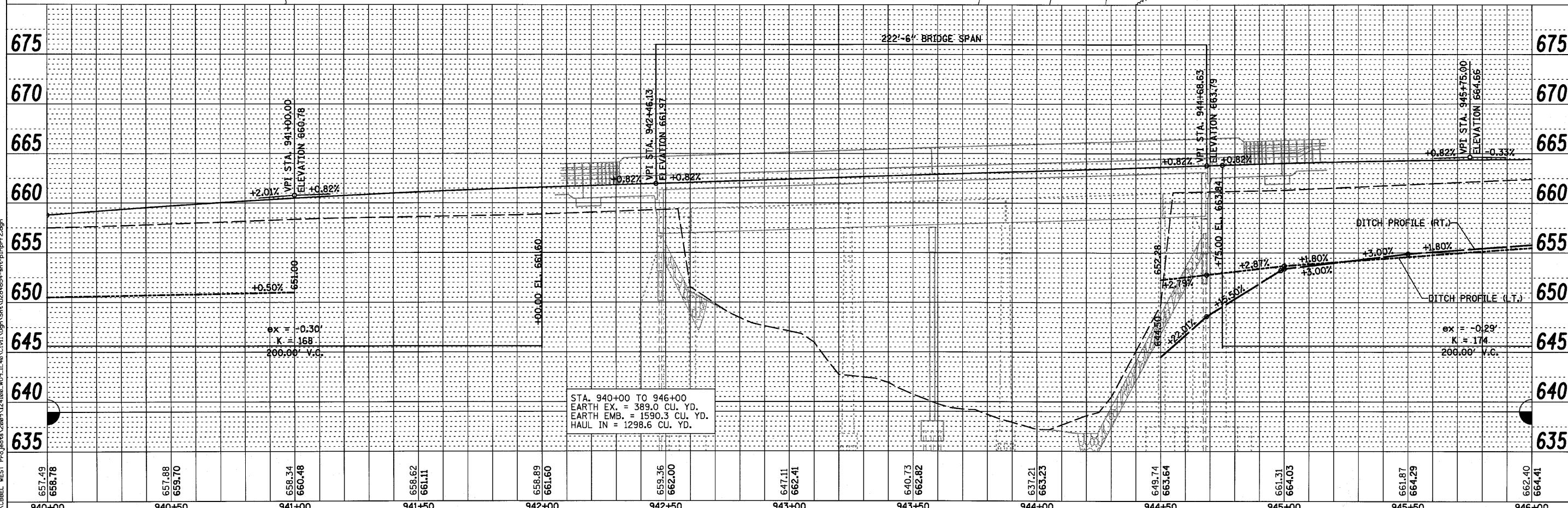
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PLAN	
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DATE	
BY	
REVIEWED	
PLANNED	
NOTED	
NO.	
PROFILE	
NO.	



RIGHT OF WAY MARKERS			
PNT.	STATION/OFFSET	NORTHING	EASTING
RM5	945+00.00, 70.00' LT.	1884944.677	2422785.477

NOTE:
UTILITY MANHOLE TO BE ADJUSTED BY OTHERS.
EX. RIM = 657.94
PROP. RIM = 656.24



657.49 658.78	657.88 659.70	658.34 660.48	658.62 661.11	658.89 661.60	659.36 662.00	647.11 662.41	640.73 662.82	637.21 663.23	649.74 663.64	661.31 664.03	661.87 664.29	662.40 664.41
940+00	940+50	941+00	941+50	942+00	942+50	943+00	943+50	944+00	944+50	945+00	945+50	946+00

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DEPARTMENT OF TRANSPORTATION

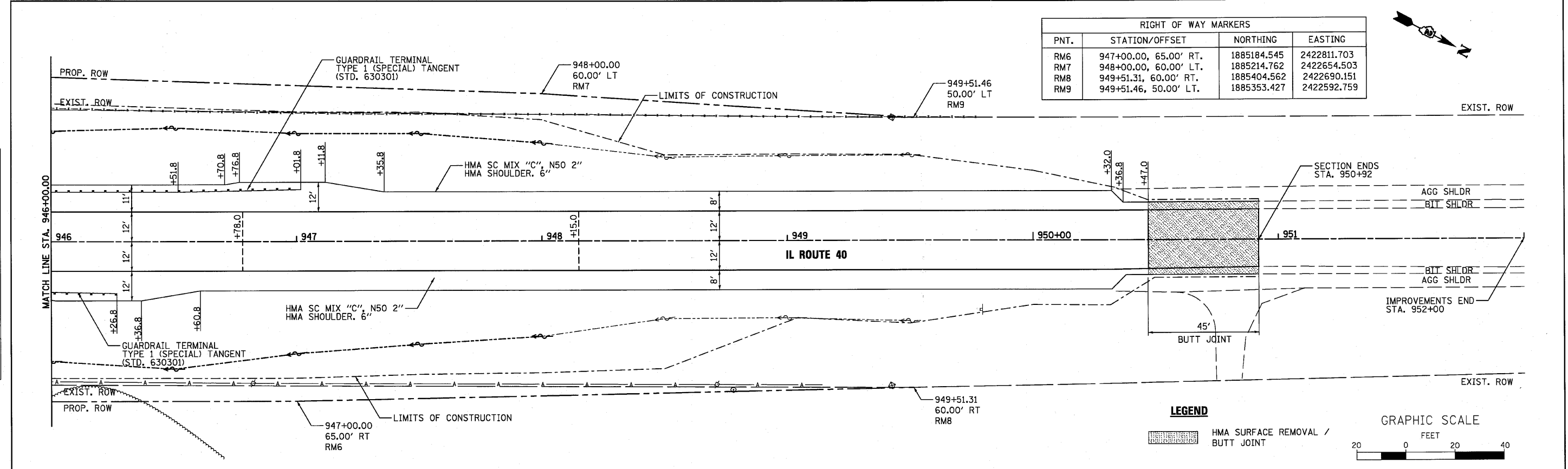
PLAN & PROFILE

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
646	88R-1	WHITESIDE	90	25
CONTRACT NO. 84854				
FED. ROAD DIST. NO. 2 ILLINOIS FED. AID PROJECT				

SCALE: SHEET NO. 25 OF 90 SHEETS STA. TO STA.

DATE	
BY	
REVISIONS	
NO.	
DESCRIPTION	
DATE	
BY	
NO.	
DESCRIPTION	
DATE	
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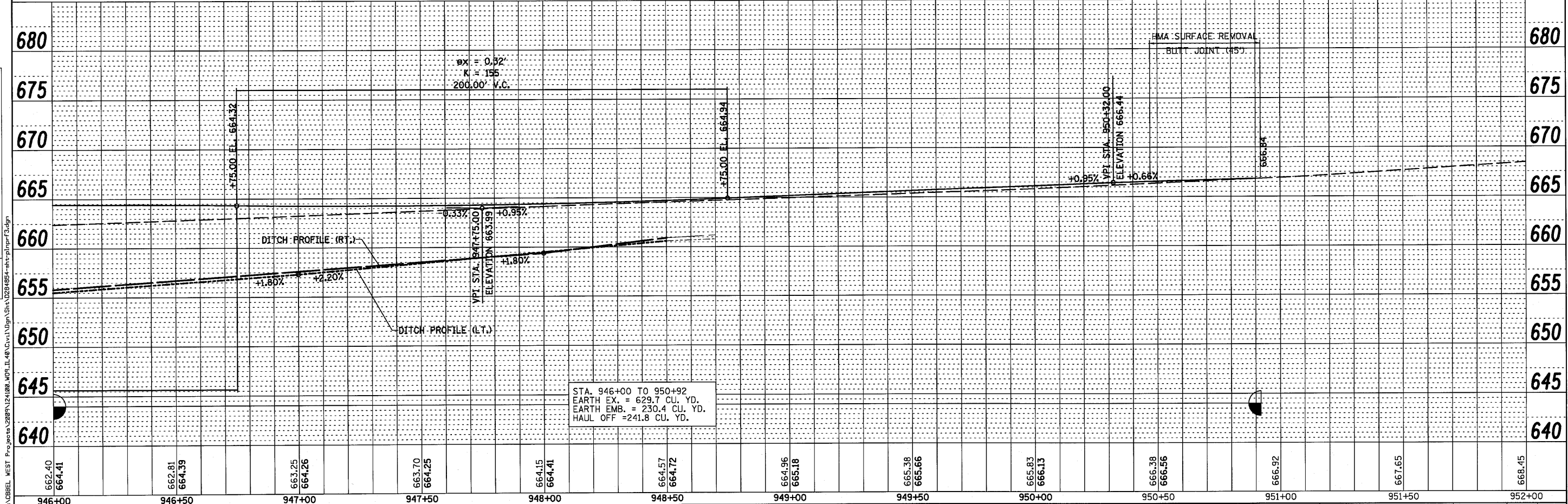
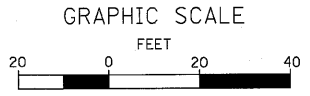


RIGHT OF WAY MARKERS			
PNT.	STATION/OFFSET	NORTHING	EASTING
RM6	947+00.00, 65.00' RT.	1885184.545	2422811.703
RM7	948+00.00, 60.00' LT.	1885214.762	2422654.503
RM8	949+51.31, 60.00' RT.	1885404.562	2422690.151
RM9	949+51.46, 50.00' LT.	1885353.427	2422592.759



LEGEND

- [Hatched Box] HMA SURFACE REMOVAL / BUTT JOINT



**STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION**

PLAN & PROFILE

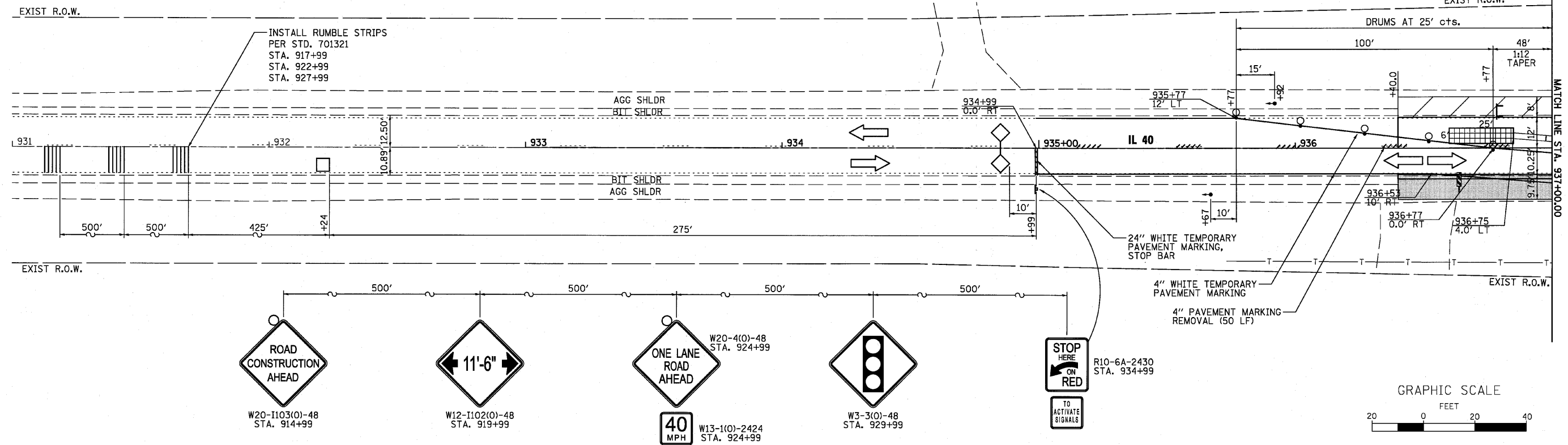
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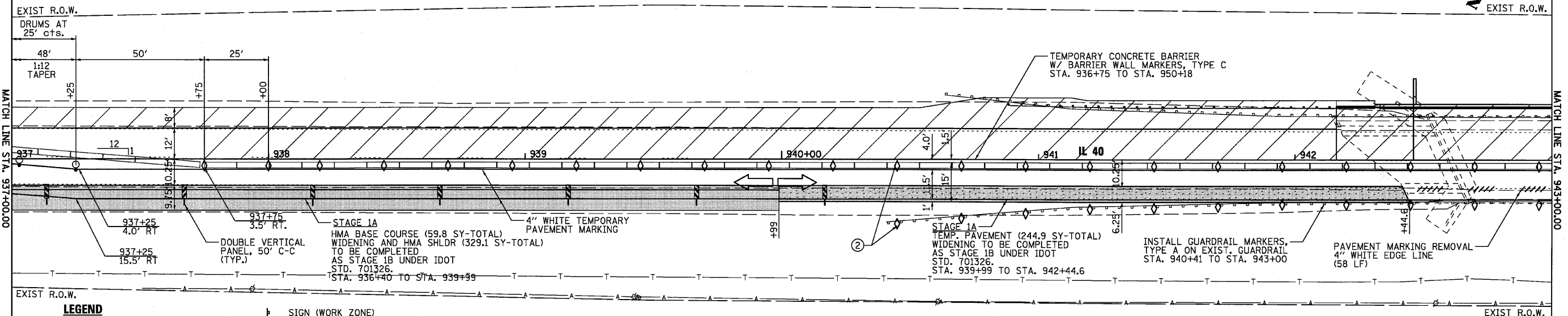
SCALE:	SHEET NO. 26 OF 90 SHEETS	STA. TO STA.	F.A.P. RTE. 646	SECTION 8BR-1	COUNTY WHITESIDE	TOTAL SHEETS 90	SHEET NO. 26
CONTRACT NO. 84854							
FED. ROAD DIST. NO. 2 (ILLINOIS) FED. AID PROJECT							

FILE NAME = P:\CBBEL WEST Projects\2009\12\10\02_05_IL-48-Cvt-1\Ugh\Shk\0204054-ans-plp-pr-53.dgn

STAGE 1



STAGE 1



LEGEND

	WORK ZONE		SIGN (WORK ZONE)
	TYPE III BARRICADE WITH FLASHING LIGHT		DRUM WITH STEADY BURN LIGHT OR BARRICADE
	DETECTOR LOOPS		TEMPORARY CONCRETE BARRIER
	IMPACT ATTENUATOR		DOUBLE VERTICAL PANEL
	HMA BASE COURSE WIDENING / HMA SHLDR		CRYSTAL BIDIRECTIONAL BARRIER WALL / GUARDRAIL MARKER
	TEMPORARY PAVEMENT		TEMPORARY TRAFFIC SIGNAL
			PERMANENT PAVEMENT MARKING REMOVAL

STAGING PLAN NOTES:

- TYPE III BARRICADE TO BE PLACED WHEN NO WORK IS BEING PERFORMED.
- BARRIER WALL/GUARDRAIL MARKERS AT 25' cts. SEE STANDARDS 704001 & 635011.
- WHEN TEMP. BRIDGE RAIL IS SPECIFIED, IT SHALL BE CONNECTED TO THE TEMP. CONC. BARRIER USING TRAFFIC BARRIER TERMINAL TYPE II.

GENERAL NOTES:

- SEE IDOT STANDARD 701321, LANE CLOSURE, 2L, 2W, BRIDGE REPAIR WITH BARRIER FOR ADDITIONAL INFORMATION.
- SEE MOT TYPICAL SECTIONS FOR ADDITIONAL INFORMATION.
- AGGREGATE SHOULDER SHALL BE PLACED ADJACENT TO THE TEMPORARY PAVEMENT AND BE PAID FOR AS ITEM 48102100, AGGREGATE WEDGE SHOULDER, TYPE B.

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DEPARTMENT OF TRANSPORTATION**

MAINTENANCE OF TRAFFIC STAGE 1	
SCALE:	SHEET NO. 27 OF 90 SHEETS STA. TO STA.

F.A. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
646	8BR-1	WHITESIDE	90	27
CONTRACT NO. 84854			ILLINOIS FED. AID PROJECT	

STAGE 1

GENERAL NOTES:

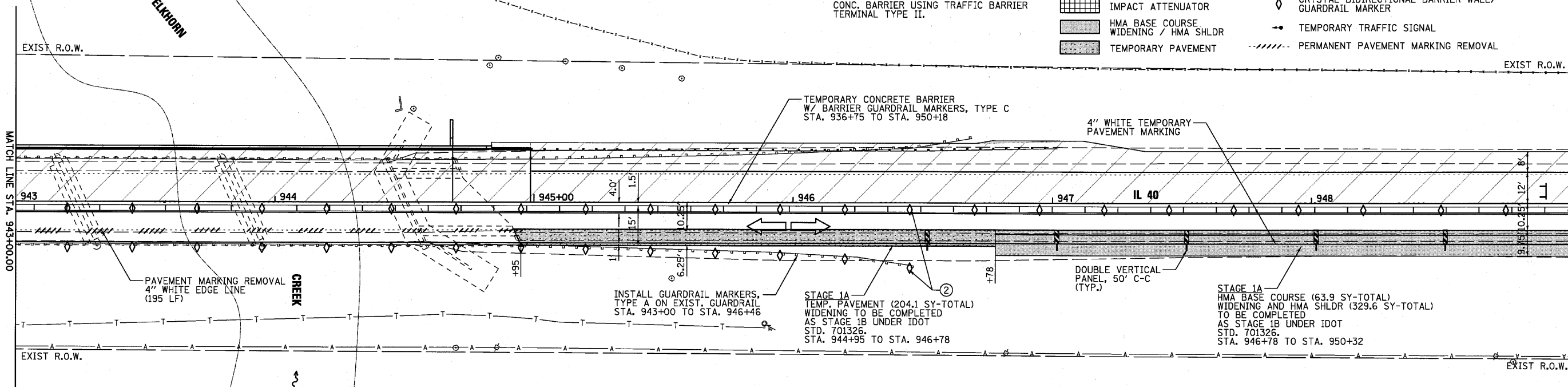
- SEE IDOT STANDARD 701321, LANE CLOSURE, 2L, 2W, BRIDGE REPAIR WITH BARRIER FOR ADDITIONAL INFORMATION.
- SEE MOT TYPICAL SECTIONS FOR ADDITIONAL INFORMATION.
- AGGREGATE SHOULDER SHALL BE PLACED ADJACENT TO THE TEMPORARY PAVEMENT AND BE PAID FOR AS ITEM 48102100, AGGREGATE WEDGE SHOULDER, TYPE B.

STAGING PLAN NOTES:

- TYPE III BARRICADE TO BE PLACED WHEN NO WORK IS BEING PERFORMED.
- BARRIER WALL/GUARDRAIL MARKERS AT 25' cts. SEE STANDARDS 704001 & 635011.
- WHEN TEMP. BRIDGE RAIL IS SPECIFIED, IT SHALL BE CONNECTED TO THE TEMP. CONC. BARRIER USING TRAFFIC BARRIER TERMINAL TYPE II.

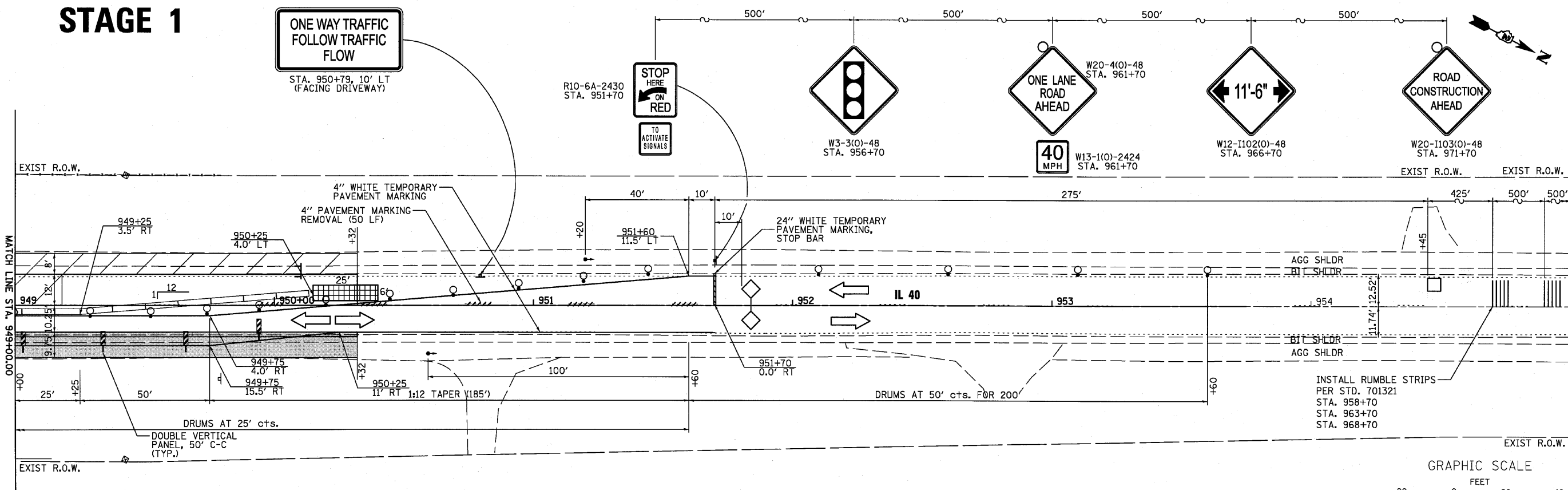
LEGEND

- WORK ZONE
- TYPE III BARRICADE WITH FLASHING LIGHT
- DETECTOR LOOPS
- IMPACT ATTENUATOR
- HMA BASE COURSE WIDENING / HMA SHLDR
- TEMPORARY PAVEMENT
- SIGN (WORK ZONE)
- DRUM WITH STEADY BURN LIGHT OR BARRICADE
- TEMPORARY CONCRETE BARRIER
- DOUBLE VERTICAL PANEL
- CRYSTAL BIDIRECTIONAL BARRIER WALL/GUARDRAIL MARKER
- TEMPORARY TRAFFIC SIGNAL
- PERMANENT PAVEMENT MARKING REMOVAL



STAGE 1

ONE WAY TRAFFIC FOLLOW TRAFFIC FLOW
 STA. 950+79, 10' LT (FACING DRIVEWAY)



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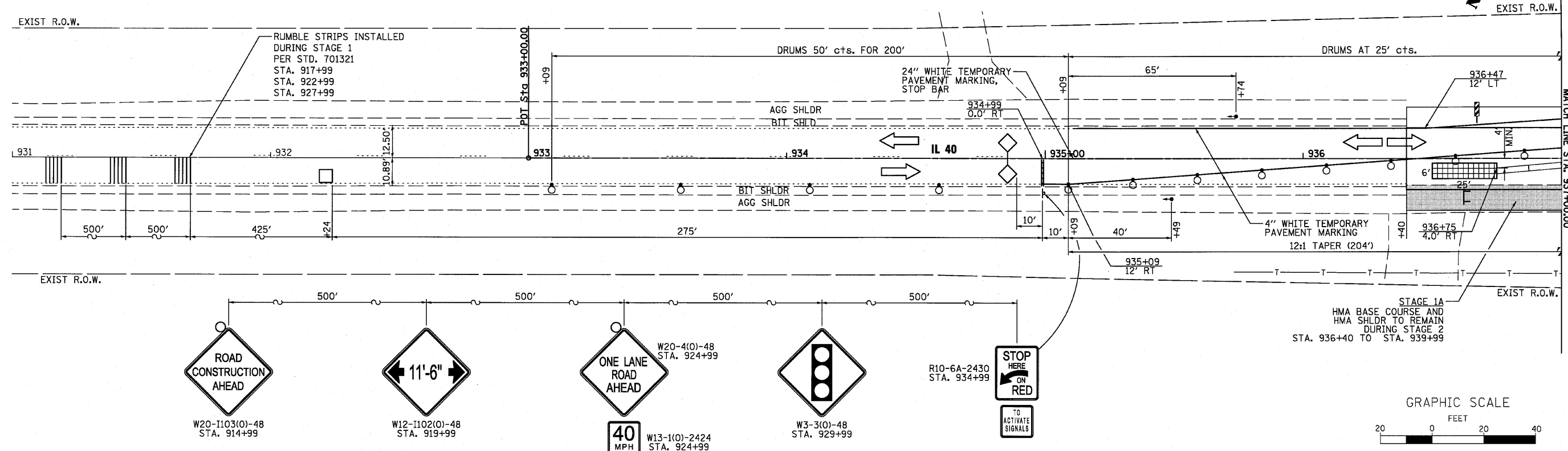
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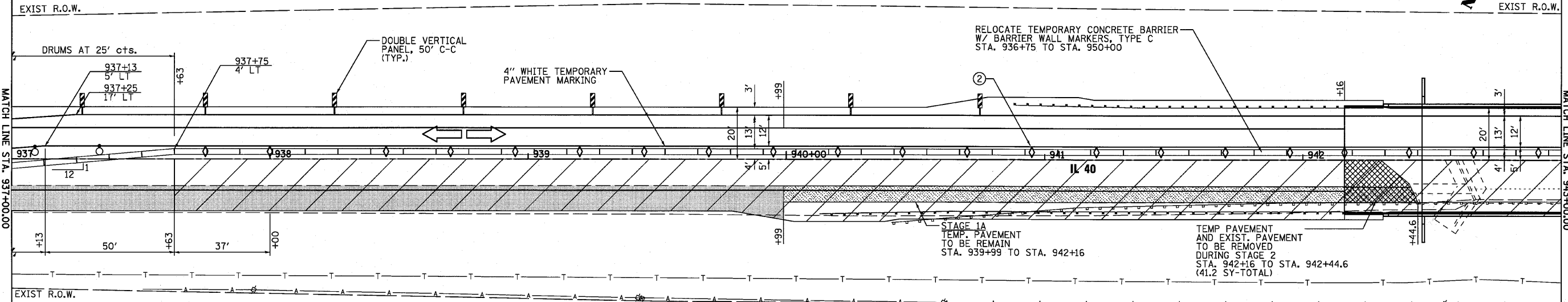
MAINTENANCE OF TRAFFIC STAGE 1	
SCALE:	SHEET NO. 28 OF 90 SHEETS STA. TO STA.

F.A. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
646	8BR-1	WHITESIDE	90	28
CONTRACT NO. 84854				
FED. ROAD DIST. NO. 2 ILLINOIS FED. AID PROJECT				

STAGE 2



STAGE 2



- LEGEND**
- WORK ZONE
 - TYPE III BARRICADE WITH FLASHING LIGHT
 - DETECTOR LOOPS
 - IMPACT ATTENUATOR
 - HMA BASE COURSE WIDENING / HMA SHLDR - STAGE 1
 - TEMPORARY PAVEMENT
 - SIGN (WORK ZONE)
 - DRUM WITH STEADY BURN LIGHT OR BARRICADE
 - TEMPORARY CONCRETE BARRIER
 - DOUBLE VERTICAL PANEL
 - CRYSTAL BIDIRECTIONAL BARRIER WALL / GUARDRAIL MARKER
 - TEMPORARY TRAFFIC SIGNAL
 - PERMANENT PAVEMENT MARKING REMOVAL

- STAGING PLAN NOTES:**
1. TYPE III BARRICADE TO BE PLACED WHEN NO WORK IS BEING PERFORMED.
 2. BARRIER WALL/GUARDRAIL MARKERS AT 25' cts. SEE STANDARDS 704001 & 635011.
 3. WHEN TEMP. BRIDGE RAIL IS SPECIFIED, IT SHALL BE CONNECTED TO THE TEMP. CONC. BARRIER USING TRAFFIC BARRIER TERMINAL TYPE II.

- GENERAL NOTES:**
1. SEE IDOT STANDARD 701321, LANE CLOSURE, 2L, 2W, BRIDGE REPAIR WITH BARRIER FOR ADDITIONAL INFORMATION.
 2. SEE MOT TYPICAL SECTIONS FOR ADDITIONAL INFORMATION.
 3. TYPE C MARKERS FOR TEMPORARY BARRIER WALL WILL NOT BE MEASURED SEPARATELY FOR PAYMENT BUT SHALL BE CONSIDERED INCLUDED IN THE UNIT COST OF TEMPORARY BARRIER WALL.

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**STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION**

**MAINTENANCE OF TRAFFIC
STAGE 2**

SCALE: SHEET NO. 29 OF 90 SHEETS STA. TO STA.

F.A.P. RTE. 646	SECTION 8BR-1	COUNTY WHITESIDE	TOTAL SHEETS 90	SHEET NO. 29
CONTRACT NO. 84854				
FED. ROAD DIST. NO. 2 ILLINOIS FED. AID PROJECT				

STAGE 2

GENERAL NOTES:

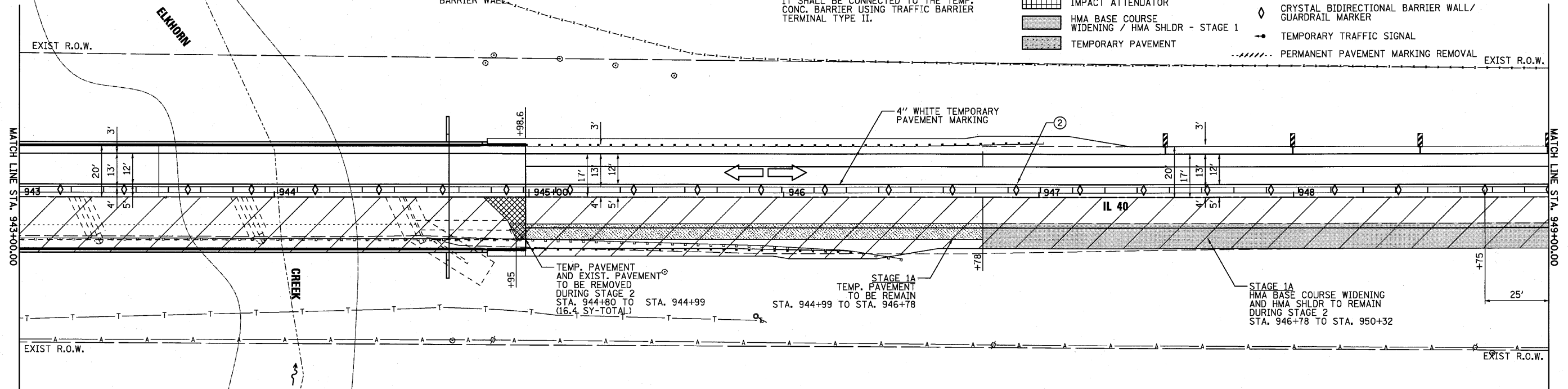
- SEE IDOT STANDARD 701321, LANE CLOSURE, 2L, 2W, BRIDGE REPAIR WITH BARRIER FOR ADDITIONAL INFORMATION.
- SEE MOT TYPICAL SECTIONS FOR ADDITIONAL INFORMATION.
- TYPE C MARKERS FOR TEMPORARY BARRIER WALL WILL NOT BE MEASURED SEPARATELY FOR PAYMENT BUT SHALL BE CONSIDERED INCLUDED IN THE UNIT COST OF TEMPORARY BARRIER WALL.

STAGING PLAN NOTES:

- TYPE III BARRICADE TO BE PLACED WHEN NO WORK IS BEING PERFORMED.
- BARRIER WALL/GUARDRAIL MARKERS AT 25' cts. SEE STANDARDS 704001 & 635011.
- WHEN TEMP. BRIDGE RAIL IS SPECIFIED, IT SHALL BE CONNECTED TO THE TEMP. CONC. BARRIER USING TRAFFIC BARRIER TERMINAL TYPE II.

LEGEND

- WORK ZONE
- TYPE III BARRICADE WITH FLASHING LIGHT
- DETECTOR LOOPS
- IMPACT ATTENUATOR
- HMA BASE COURSE WIDENING / HMA SHLDR - STAGE 1
- TEMPORARY PAVEMENT
- SIGN (WORK ZONE)
- DRUM WITH STEADY BURN LIGHT OR BARRICADE
- TEMPORARY CONCRETE BARRIER
- DOUBLE VERTICAL PANEL
- CRYSTAL BIDIRECTIONAL BARRIER WALL / GUARDRAIL MARKER
- TEMPORARY TRAFFIC SIGNAL
- PERMANENT PAVEMENT MARKING REMOVAL



STAGE 2

ONE WAY TRAFFIC FOLLOW TRAFFIC FLOW

STA. 950+79, 10' LT (FACING DRIVEWAY)

STOP HERE ON RED

TO ACTIVATE SIGNALS

ONE LANE ROAD AHEAD

W3-3(O)-48 STA. 956+70

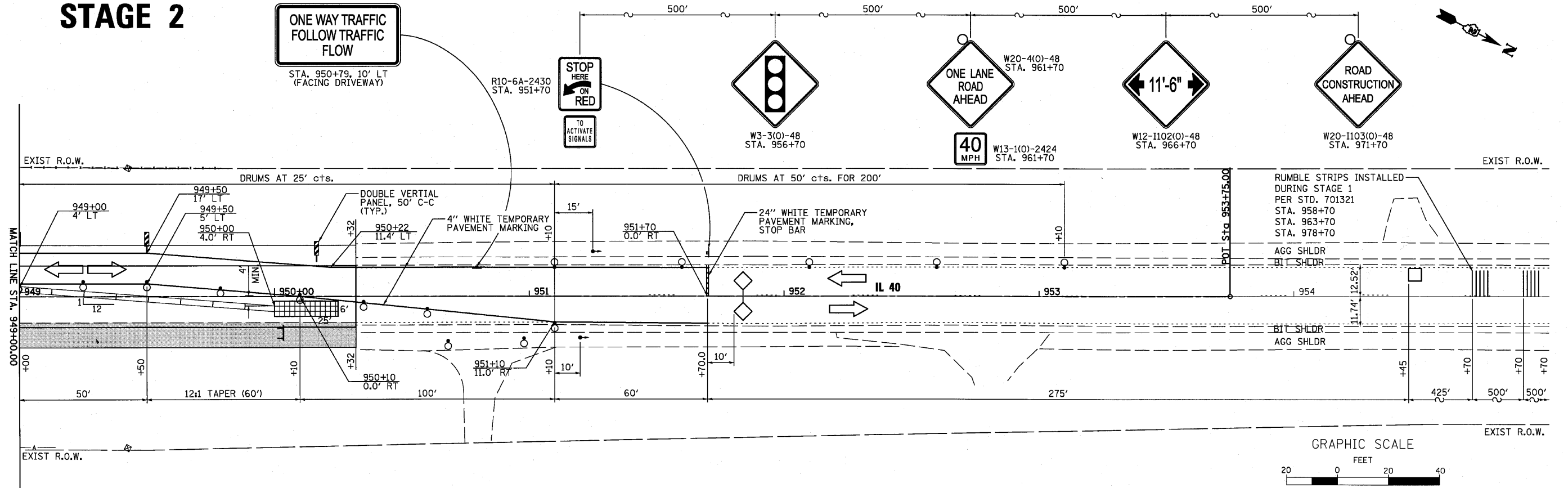
40 MPH

11'-6"

W12-1102(O)-48 STA. 966+70

ROAD CONSTRUCTION AHEAD

W20-1103(O)-48 STA. 971+70



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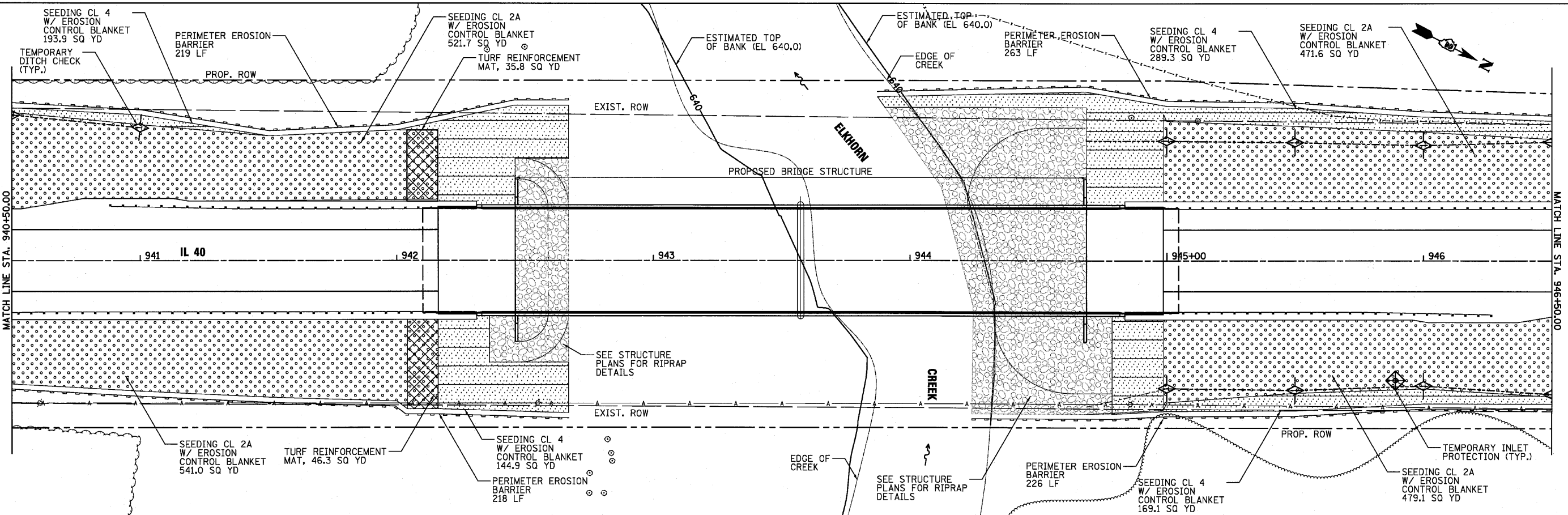
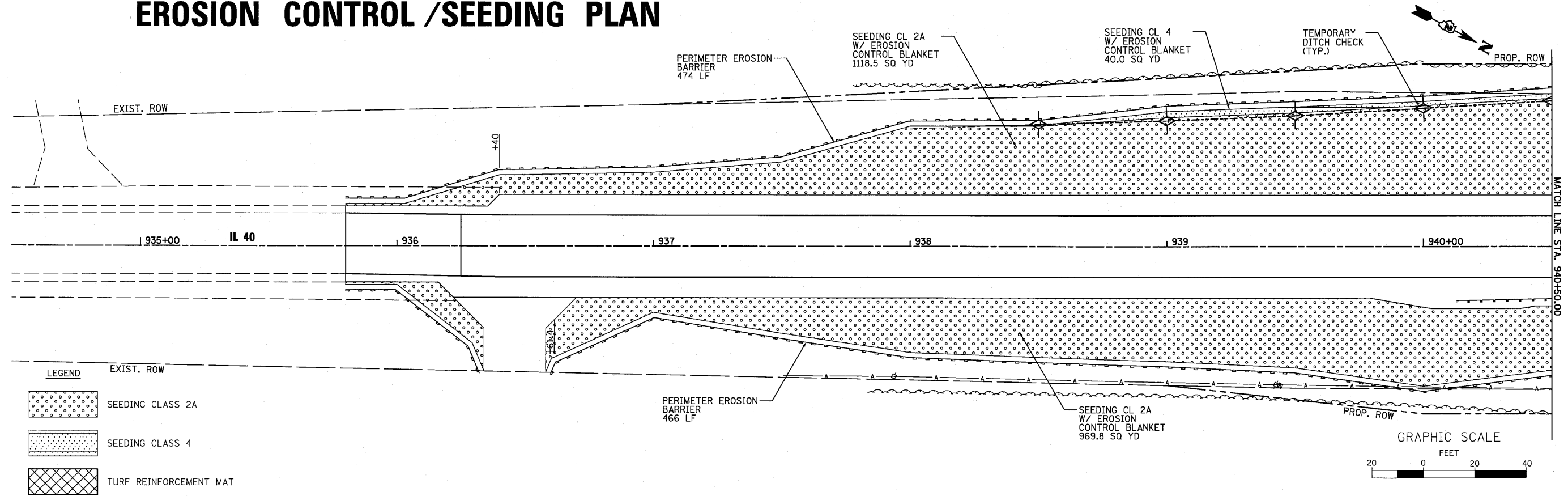
**STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION**

**MAINTENANCE OF TRAFFIC
STAGE 2**

SCALE: SHEET NO. 30 OF 90 SHEETS STA. TO STA.

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
646	8BR-1	WHITESIDE	90	30
CONTRACT NO. 84854			ILLINOIS FED. AID PROJECT	

EROSION CONTROL / SEEDING PLAN



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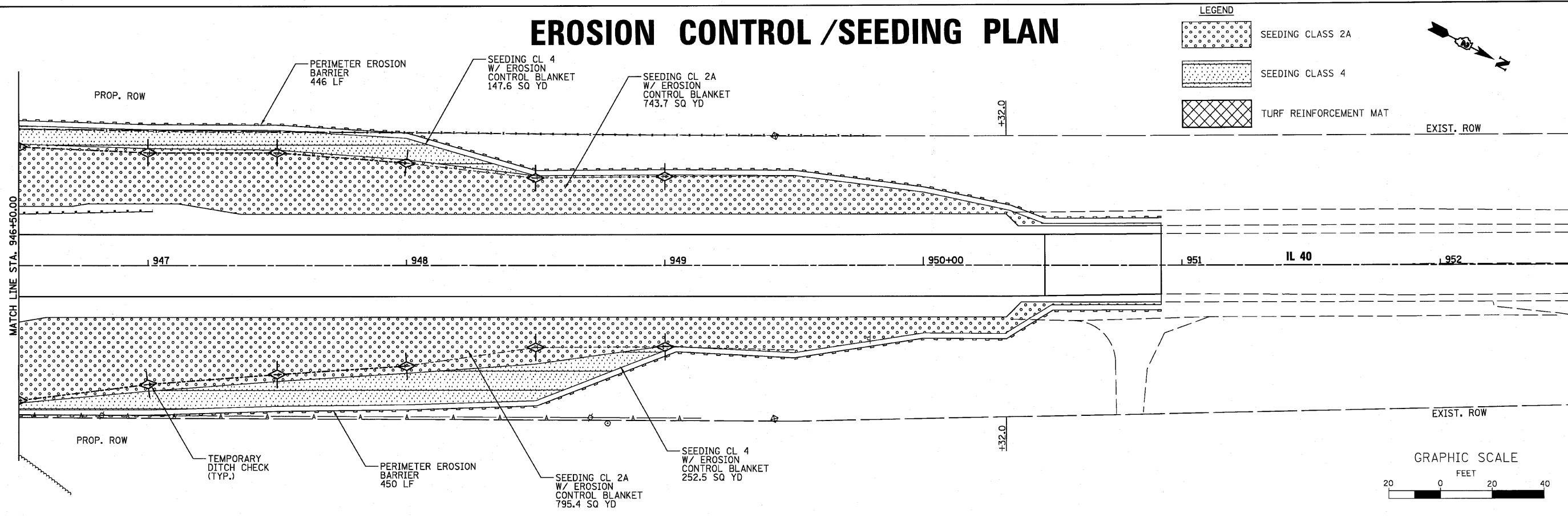
STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

EROSION CONTROL & SEEDING PLAN

SCALE: SHEET NO. 31 OF 90 SHEETS STA. TO STA.

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
646	8BR-1	WHITESIDE	90	31
				CONTRACT NO. 84854
FED. ROAD DIST. NO. 2 ILLINOIS FED. AID PROJECT				

EROSION CONTROL / SEEDING PLAN



SWPPP NOTES:

1. 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 LATEST EDITION.
2. A COPY OF THE APPROVED EROSION AND SEDIMENT CONTROL PLAN AND STORMWATER POLLUTION PREVENTION PLAN SHALL BE MAINTAINED ON THE SITE AT ALL TIMES.
3. THE CONTRACTOR IS RESPONSIBLE FOR INSTALLATION OF ANY ADDITIONAL EROSION CONTROL MEASURES NECESSARY TO PREVENT EROSION AND SEDIMENTATION.
4. DURING DEWATERING OPERATIONS, WATER WILL BE PUMPED INTO SEDIMENT BASINS. DEWATERING DIRECTLY INTO FIELD TILES, ELKHORN CREEK, OR STORMWATER STRUCTURES IS PROHIBITED. A DEWATERING PLAN SHALL BE PROVIDED BY THE CONTRACTOR AND APPROVED BY THE RESIDENT ENGINEER.
5. DURING WORK ON THE BANK OF ELKHORN CREEK, WORK MUST BE TIMED TO TAKE PLACE DURING LOW FLOW OR NO-FLOW CONDITIONS. ALSO, STREAM FLOW MUST BE ISOLATED FROM THE WORK AREA USING A NON-ERODABLE UNDERWATER PROTECTION (SANDBAGS, STEEL SHEETS, AQUA BARRIERS, ETC.). IF BYPASS IS NECESSARY, THE INLET OF THE HOSE SHALL BE PLACED IN A SUMP PIT AND THE OUTLET PLACED ON A NON-ERODABLE, ENERGY DISSIPATING SURFACE PRIOR TO REJOINING THE STREAM FLOW OR WETLAND.

REMOVAL OF EXISTING STRUCTURE AND TEMPORARY CLEAR WATER DIVERSION NOTES

1. PRIOR TO ANY WORK IN THE STREAM OR STREAMBED, THE CONTRACTOR SHALL HAVE INSTALLED THE SEDIMENT CONTROL SILT FENCE.
2. THE SEDIMENT SILT CONTROL FENCE SHALL EXTEND UP TO THE EXISTING STRUCTURE PRIOR TO DEMOLITION AND THEN BE RE-POSITIONED AFTER DEMOLITION TO PROTECT ANY OPEN AREAS TO THE STREAM BANK OR STREAM.
3. THE REQUIREMENTS FOR THE TEMPORARY CLEAR WATER DIVERSION ARE OUTLINED IN THE SPECIAL PROVISIONS.

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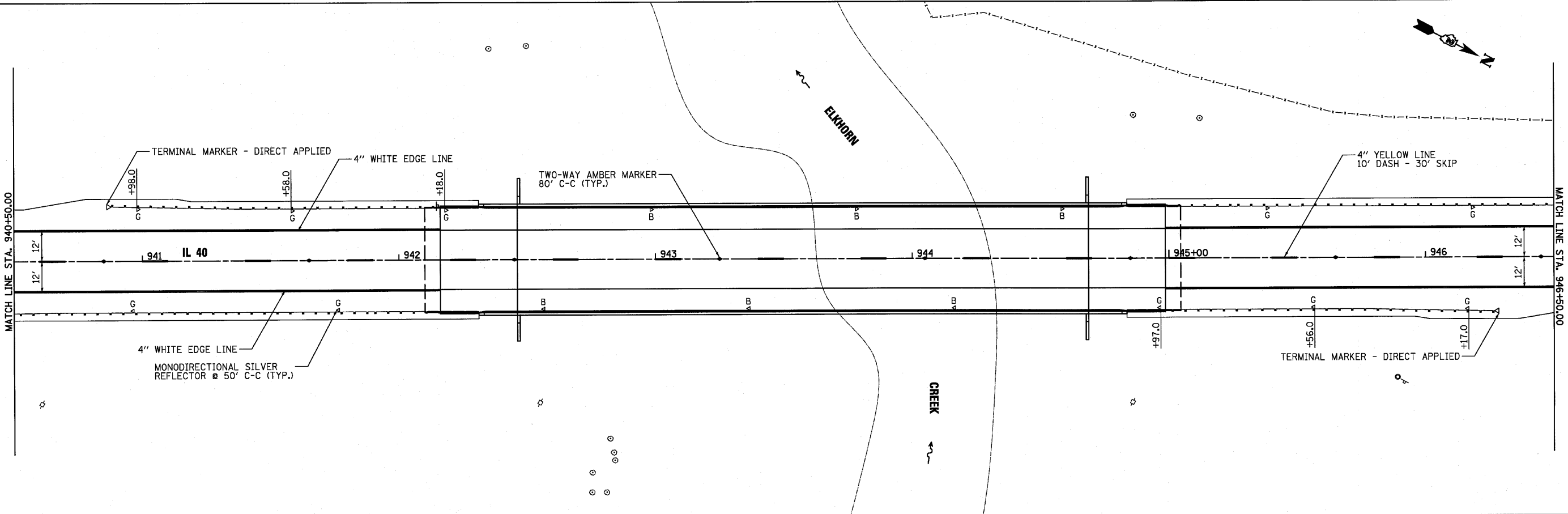
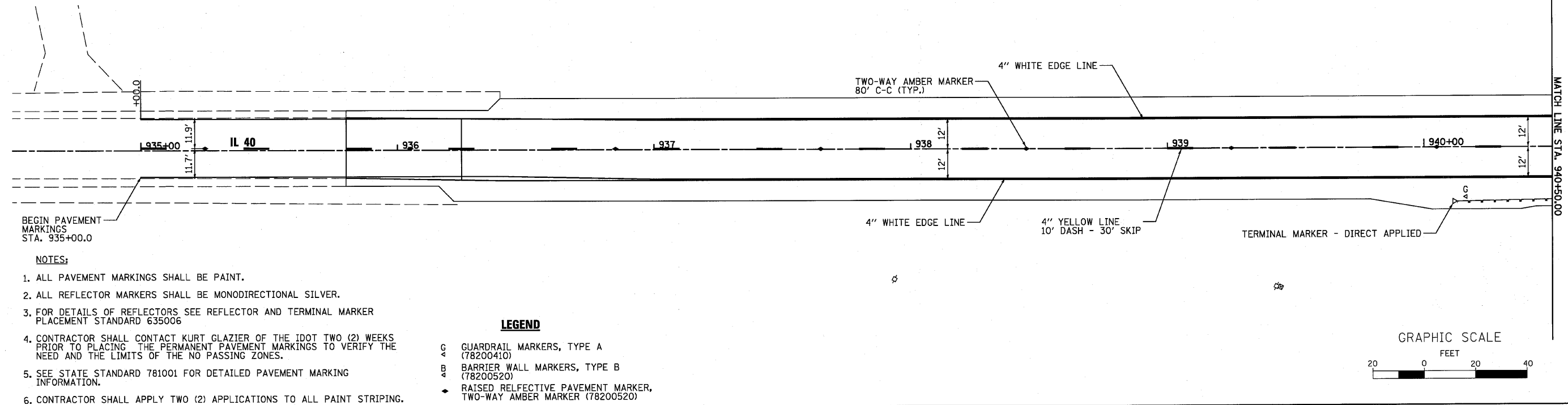
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DEPARTMENT OF TRANSPORTATION**

EROSION CONTROL & SEEDING PLAN	
SCALE:	SHEET NO. 32 OF 90 SHEETS STA. TO STA.

F.A.P. RTE. 646	SECTION 8BR-1	COUNTY WHITESIDE	TOTAL SHEETS 90	SHEET NO. 32
CONTRACT NO. 84854				
FED. ROAD DIST. NO. 2 ILLINOIS FED. AID PROJECT				

PAVEMENT MARKING PLAN



FILE NAME = P:\CERBERL_WEST_Projects\2009\124180_M03_IL4R\Civil\Sign\Shet\0284854-ent.pml.dgn

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	DATE - 8/6/10	REVISED -

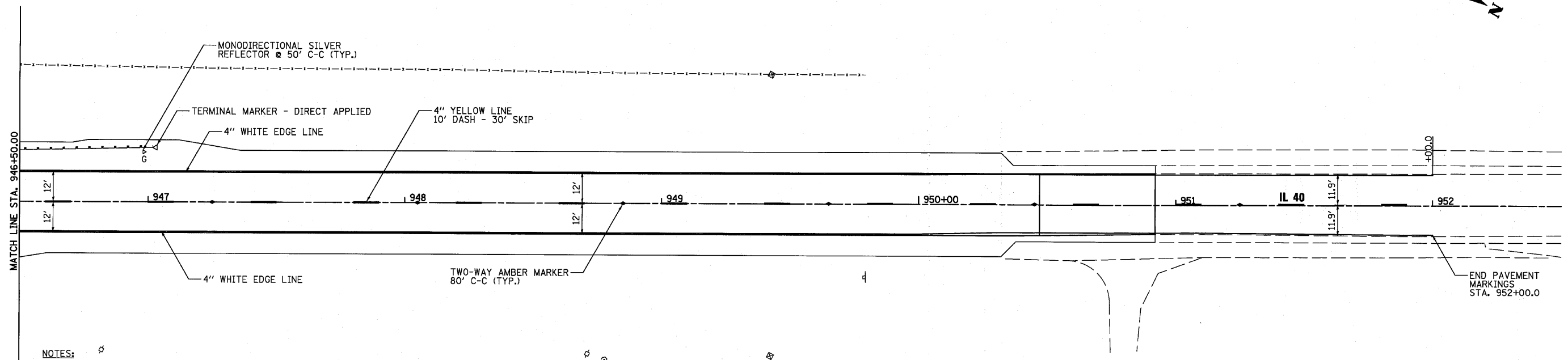
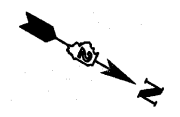
**STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION**

PAVEMENT MARKING PLAN

SCALE: SHEET NO. 33 OF 90 SHEETS STA. TO STA.

F.A. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
646	8BR-1	WHITESIDE	90	33
CONTRACT NO. 84854				
FED. ROAD DIST. NO. 2 ILLINOIS FED. AID PROJECT				

PAVEMENT MARKING PLAN



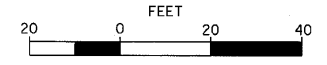
NOTES:

1. ALL PAVEMENT MARKINGS SHALL BE PAINT.
2. ALL REFLECTOR MARKERS SHALL BE MONODIRECTIONAL SILVER.
3. FOR DETAILS OF REFLECTORS SEE REFLECTOR AND TERMINAL MARKER PLACEMENT STANDARD 635006
4. CONTRACTOR SHALL CONTACT KURT GLAZIER OF THE IDOT TWO (2) WEEKS PRIOR TO PLACING THE PERMANENT PAVEMENT MARKINGS TO VERIFY THE NEED AND THE LIMITS OF THE NO PASSING ZONES.
5. SEE STATE STANDARD 781001 FOR DETAILED PAVEMENT MARKING INFORMATION.
6. CONTRACTOR SHALL APPLY TWO (2) APPLICATIONS TO ALL PAINT STRIPING.

LEGEND

- G GUARDRAIL MARKERS, TYPE A (78200410)
- 4 BARRIER WALL MARKERS, TYPE B (78200520)
- 4 RAISED REFLECTIVE PAVEMENT MARKER, TWO-WAY AMBER MARKER (78200520)

GRAPHIC SCALE



FILE NAME = P:\CIBREL WEST Projects\2009\124102_005_IL40\Civil\Drawings\2284854-411r.pmk2.dgn

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

USER NAME = *USER*	DESIGNED -	REVISED -
PLOT SCALE =	DRAWN -	REVISED -
PLOT DATE = 8/2/2010	CHECKED -	REVISED -
	DATE - 8/6/10	REVISED -

**STATE OF ILLINOIS
 DEPARTMENT OF TRANSPORTATION**

PAVEMENT MARKING PLAN	
SCALE:	SHEET NO. 34 OF 90 SHEETS STA. TO STA.

F.A. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
646	8BR-1	WHITESIDE	90	34
CONTRACT NO. 84854				
FED. ROAD DIST. NO. 2 ILLINOIS FED. AID PROJECT				

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

Bench Mark: Chiseled "□" on NW Pier. Elev. 658.57

Existing Structure: S.N. 098-0013, built 1926 as SBI-Route 40, Section 8B, at Station 1375+23.67 as a 3 simple span reinforced concrete deck girder bridge, 190'-8" Bk.-to-Bk abutments. Closed abutments and piers supported on untreated timber piles. The bridge is skewed 25° right ahead. Superstructure replacement and widening to 33'-0" out to out in 1976 at Station 1375+23.67 with simple span PPC deck beams and bituminous wearing surface. Existing bridge to be removed and replaced.
Traffic to be maintained utilizing staged construction.

No Salvage

DESIGN SPECIFICATIONS
2007 AASHTO LRFD Bridge Design Specifications
with 2008 & 2009 Interims

DESIGN STRESSES

FIELD UNITS

f'c = 3,500 psi
fy = 60,000 psi (Reinforcement)
fy = 50,000 psi (M270 Grade 50)
fy = 36,000 psi (M270 Grade 36)

LOADING HL-93

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

SEISMIC DATA

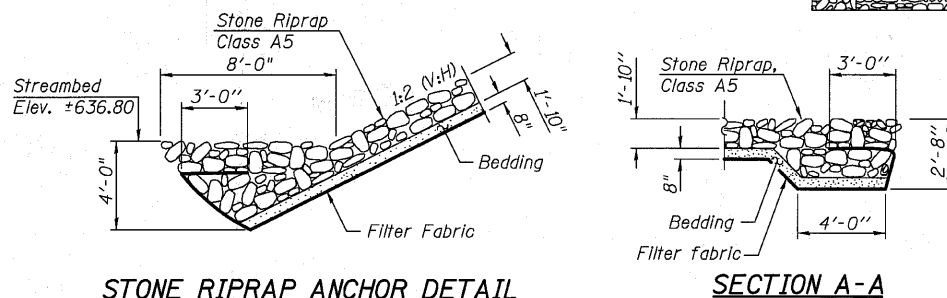
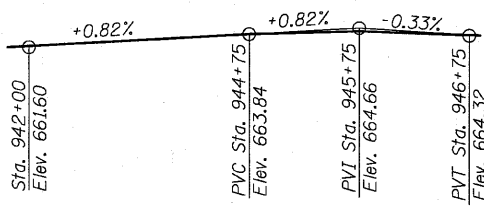
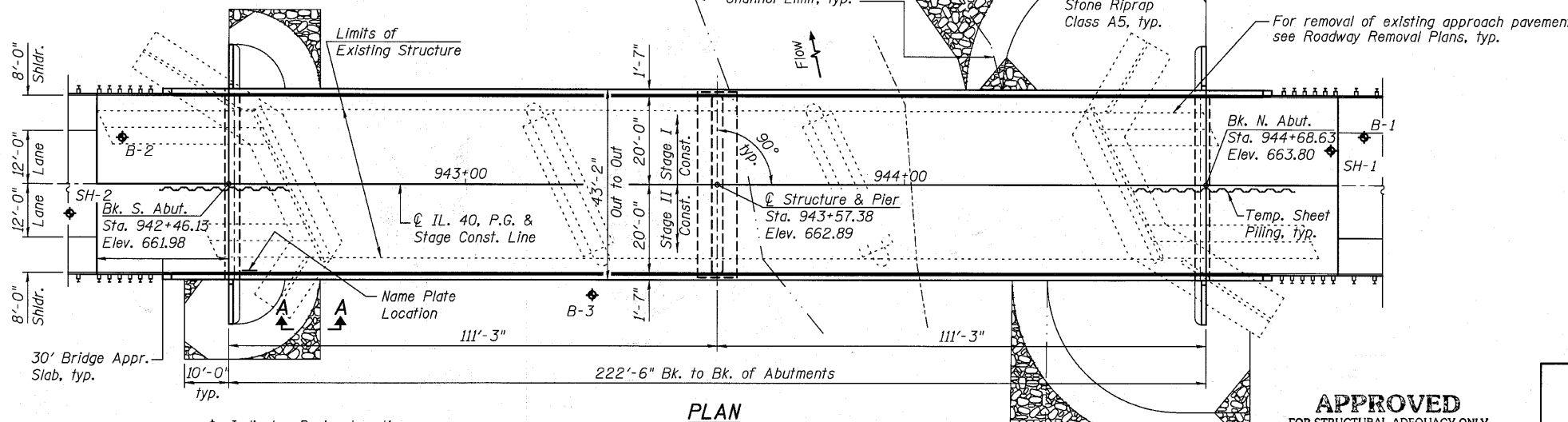
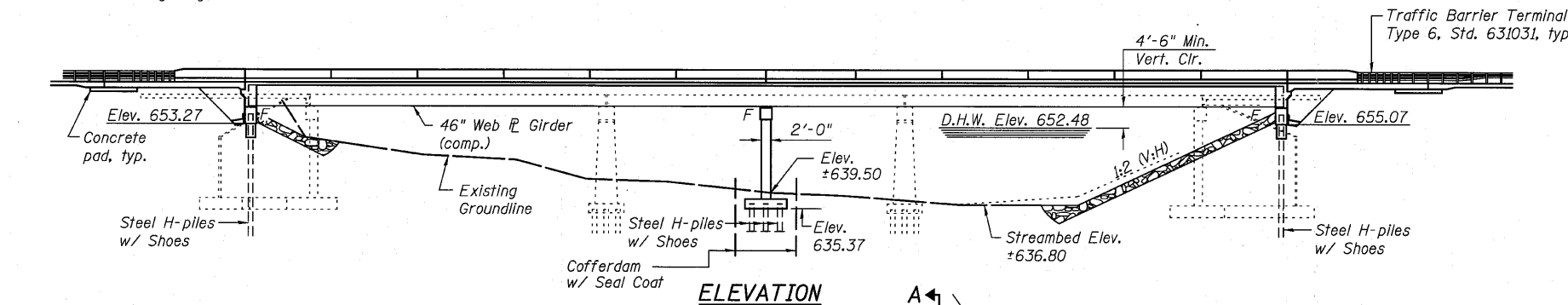
Seismic Performance Zone (SPZ) = 1
Design Spectral Acceleration at 1.0 sec. (SD1) = 0.060g
Design Spectral Acceleration at 0.2 sec. (SDS) = 0.104g
Soil Site Class = C

INDEX OF SHEETS

- 1 General Plan and Elevation
- 2 General Data
- 3 Stage Construction Details
- 4 Temporary Concrete Barrier for Stage Construction
- 5-7 Top of Slab Elevations
- 8-9 Top of Approach Slab Elevations
- 10 Superstructure
- 11 Superstructure Details
- 12-13 Bridge Approach Slab Details
- 14 Diaphragm Details
- 15 Structural Steel
- 16 Structural Steel Details
- 17 Bearing Details
- 18-19 Abutments
- 20 Pier Details
- 21 HP Pile Details
- 22 Bar Splicer Assembly and Mechanical Splicer Details
- 23 Concrete Parapet Slipforming Option
- 24-26 Soil Boring Logs

DESIGN SCOUR ELEVATION TABLE

Design Scour Elevation (ft.)	North Abut.	Pier	South Abut.
	655.07	629.40	653.27



WATERWAY INFORMATION

Flood	Freq. Yr.	Q C.F.S.	Opening Sq. Ft.		Nat. H.W.E.	Head - Ft.		Headwater El.	
			Exist.	Prop.		Exist.	Prop.	Exist.	Prop.
			Exist.	Prop.		Exist.	Prop.	Exist.	Prop.
Design	10	6300	1332	1681	651.64	2.61	2.45	654.25	654.09
Base	50	9553	1452	1836	652.48	2.93	2.77	655.41	655.25
Overtop Prop.	100	10960	1497	1896	652.80	2.99	2.82	655.79	655.62
	500	14385	1592	2023	653.48	3.00	2.86	656.48	656.34

Exist. Low Grade Elev. 655.76 @ Sta. 936+30
Prop. Low Grade Elev. 655.76 @ Sta. 936+30
Drainage Area = 199.9 sq. mi.

APPROVED
FOR STRUCTURAL ADEQUACY ONLY

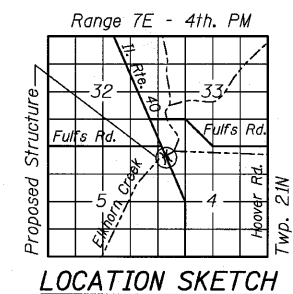
Robert E. Anderson (SE)
ENGINEER OF BRIDGES AND STRUCTURES



Andrew E. Underwager
Andrew E. Underwager
Licensed Structural Engineer
State of Illinois No. 81-6218
Expires 11/30/2010

NAME PLATE
See Std. 515001

B-6-2010
Date



GENERAL PLAN & ELEVATION
ILLINOIS ROUTE 40 OVER
ELKHORN CREEK
F.A.P. RT. 646 - SEC. 8BR-1
WHITESIDE COUNTY
STATION 943+57.38
STRUCTURE NO. 098-0117

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

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St. Charles, Illinois 60174
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SHEET NO. 1
26 SHEETS

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
646	8BR-1	WHITESIDE	90	35
CONTRACT NO. 84854				

ILLINOIS FED. AID PROJECT

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

GENERAL NOTES

Fasteners shall be AASHTO M164 Type 1, mechanically galvanized bolts.
Bolts $\frac{7}{8}$ in. ϕ , holes $\frac{15}{16}$ in. ϕ , unless otherwise noted.

Calculated weight of Structural Steel = 286,180 lb. (AASHTO M 270, Gr. 50)
23,850 lb. (AASHTO M 270, Gr. 36)

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.

If the Contractor elects to use cantilever forming brackets on the exterior beams or girders, the brackets shall be placed at the same locations as required for the hardwood blocks in Article 503.06(b) of the Standard Specifications. If additional cantilever forming brackets are required, hardwood blocking shall be wedged between the exterior and first interior beam at each of these additional bracket locations.

The Inorganic Zinc Rich Primer / Acrylic / Acrylic Paint System shall be used for shop and field painting of new structural steel except where otherwise noted. The color of the final finish coat for all interior steel surfaces shall be gray, Munsell No. 5B 7/1. The color of the final finish coat for the exterior and bottom flange of the fascia beams shall be blue, Munsell No. 10B 3/6. See Special Provision for "Cleaning and Painting New Metal Structures".

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.

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

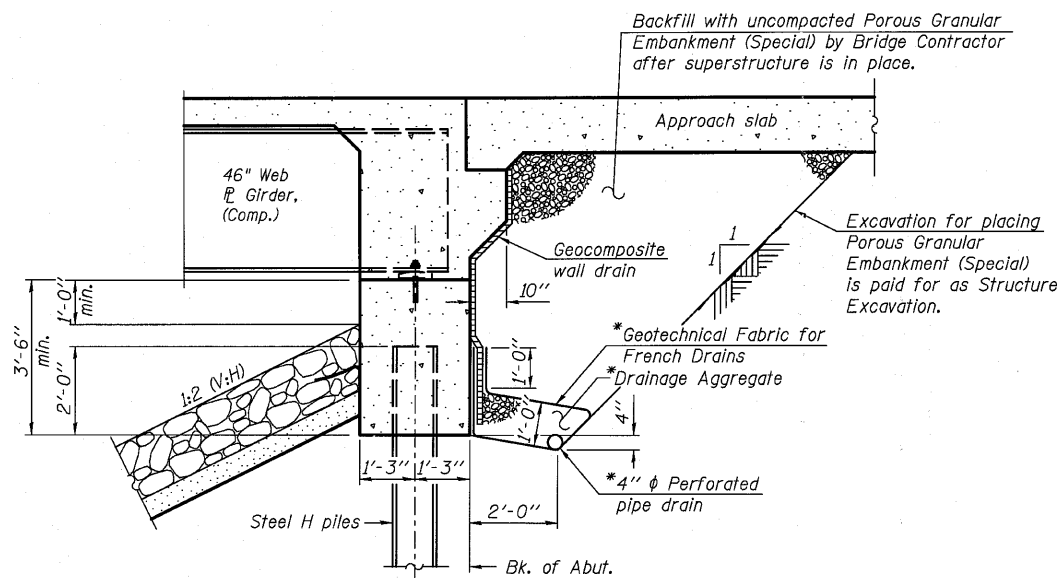
The embankment configuration shown shall be the minimum that must be placed and compacted prior to construction of the abutments.

Seal coat thickness design is based on the Estimated Water Surface Elevation (EWSE). Cofferdam design details and proposed changes in seal coat thickness shall be submitted to the Engineer for approval with the cofferdam design.

The Contractor is advised that the existing PPC Deck beams are in a deteriorated condition with reduced load carrying capacity. It is the Contractor's responsibility to account for the condition of the beams when developing construction procedures for the removal and replacement of the superstructure.

If the Contractor's procedures for existing deck beam removal involves placement of heavy equipment on the existing deck beams, a detailed procedure shall be submitted to the Engineer for approval. The procedure shall include calculations, sealed by an Illinois Licensed Structural Engineer, verifying the structural adequacy of the beams for the proposed loads. Cost included with Removal of Existing Structures.

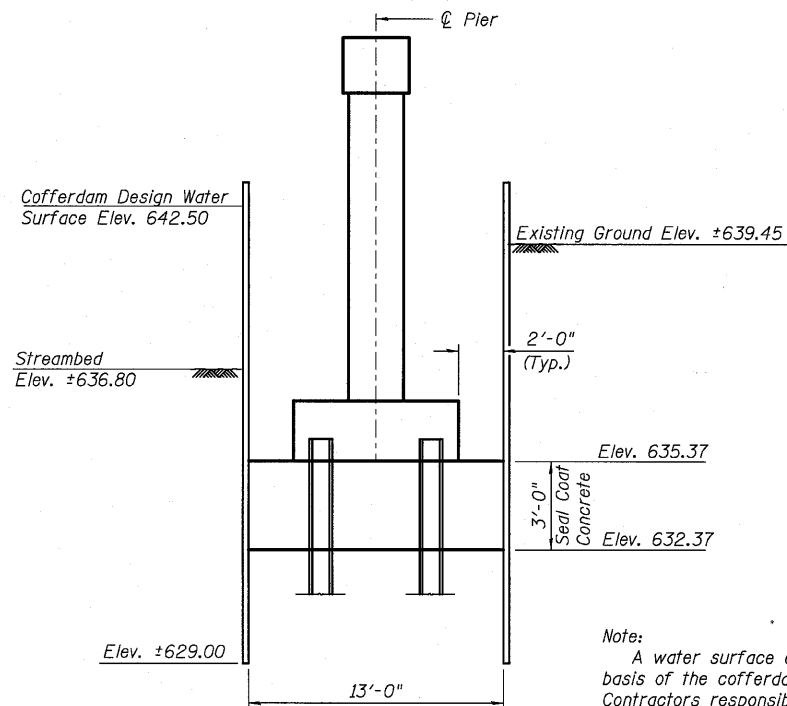
The existing bearing pads at Pier 1 and the south support of Pier 2 contain asbestos. The Contractor shall take appropriate precautions to deal with the presence and disposal of asbestos on this project. See Special Provisions.



SECTION THRU INTEGRAL ABUTMENT

*Included in the cost of Pipe Underdrains for Structures, 4".

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 601101).



COFFERDAM DETAIL

Note: A water surface elevation of +639.45 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 13'-0" x 46'-0".

TOTAL BILL OF MATERIAL

ITEM	UNIT	SUPER	SUB	TOTAL
Porous Granular Embankment, Special	Cu. Yd.		200	200
Stone Riprap, Class A5	Sq. Yd.		961	961
Filter Fabric	Sq. Yd.		961	961
Removal of Existing Structures	Each			1
Bridge Rail Removal	Foot	506		506
Structure Excavation	Cu. Yd.		288	288
Cofferdam Excavation	Cu. Yd.		158	158
Cofferdam, Location 1	Each		1	1
Concrete Structures	Cu. Yd.		142.4	142.4
Concrete Superstructure	Cu. Yd.	477.8		477.8
Seal Coat Concrete	Cu. Yd.		66.4	66.4
Bridge Deck Grooving	Sq. Yd.	1,258		1,258
Concrete Encasement	Cu. Yd.		8.8	8.8
Protective Coat	Sq. Yd.	1,334		1,334
Furnishing and Erecting Structural Steel	L. Sum	1		1
Stud Shear Connectors	Each	2,556		2,556
Reinforcement Bars, Epoxy Coated	Pound	113,790	17,670	131,460
Bar Splicers	Each	1,074	78	1,152
Furnishing Steel Piles HP 12x53	Foot		928	928
Furnishing Steel Piles HP 14x73	Foot		1,026	1,026
Driving Piles	Foot		1,954	1,954
Test Pile Steel HP 12x53	Each		1	1
Test Pile Steel HP 14x73	Each		2	2
Pile Shoes	Each		46	46
Temporary Sheet Piling	Sq. Ft.		1,471	1,471
Name Plates	Each	1		1
Anchor Bolts, 1"	Each		36	36
Geocomposite Wall Drain	Sq. Yd.		93	93
Pipe Underdrains for Structures, 4"	Foot		180	180
Asbestos Bearing Pad Removal	Each	33		33

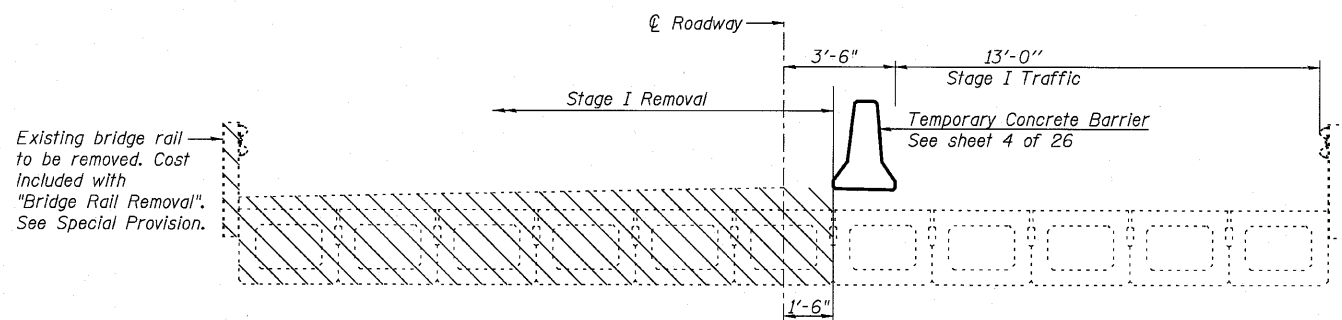
**GENERAL DATA
STRUCTURE NO. 098-0117**

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

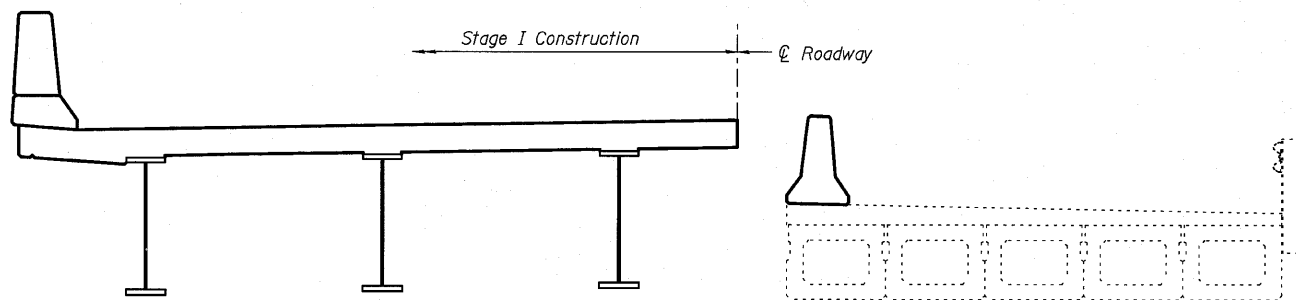
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116 West Main Street, Suite 201
St. Charles, Illinois 60174
(630) 443-7755

SHEET NO. 2	F.A.P. RTE. 646	SECTION 8BR-1	COUNTY WHITESIDE	TOTAL SHEETS 90	SHEET NO. 36
26 SHEETS	CONTRACT NO. 84854				
ILLINOIS FED. AID PROJECT					

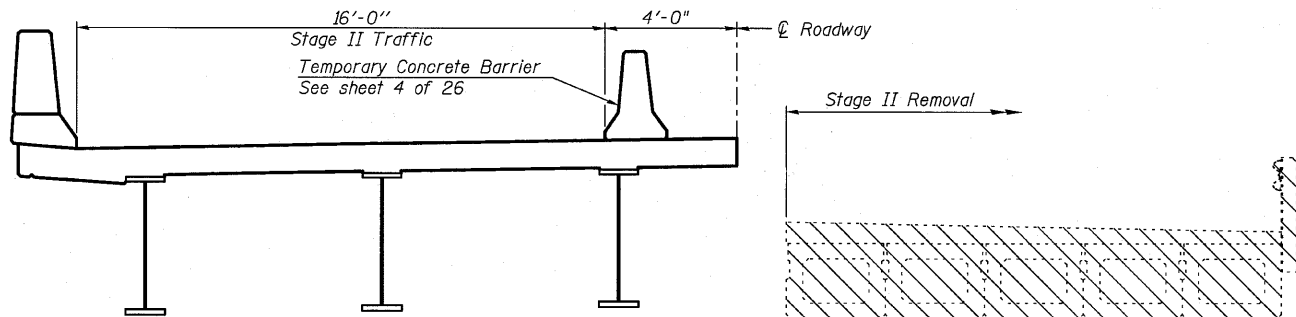
STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION



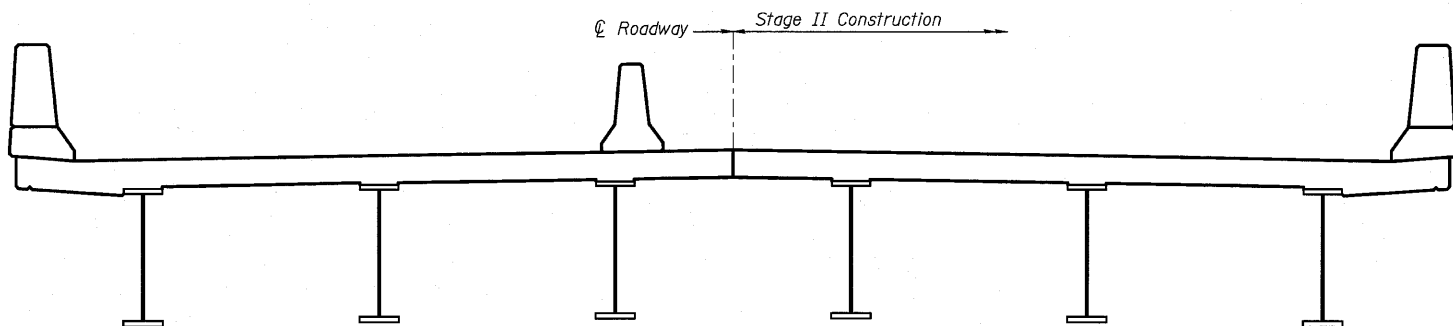
STAGE I REMOVAL & TRAFFIC



STAGE I CONSTRUCTION

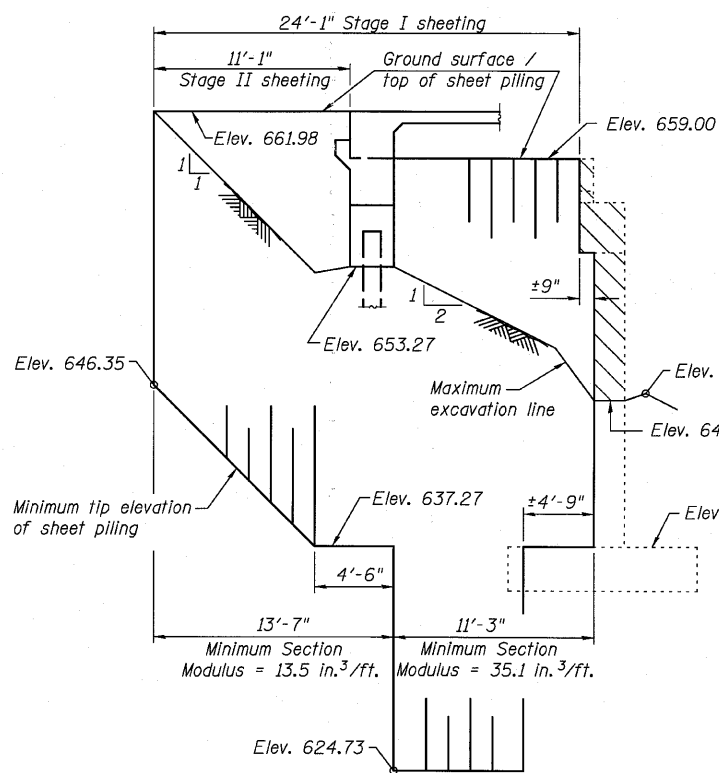


STAGE II REMOVAL & TRAFFIC



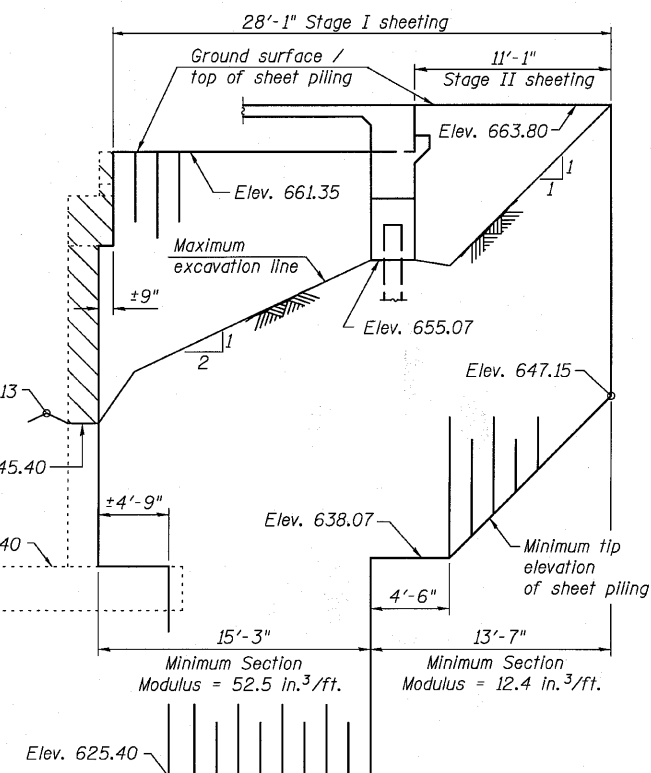
STAGE II CONSTRUCTION

DESIGNED -	AEU
CHECKED -	MH/DLS
DRAWN -	AWH
CHECKED -	AEU



TEMPORARY SHEET PILING AT SOUTH ABUT.

Dimensions measured along Stage Construction Line



TEMPORARY SHEET PILING AT NORTH ABUT.

Dimensions measured along Stage Construction Line

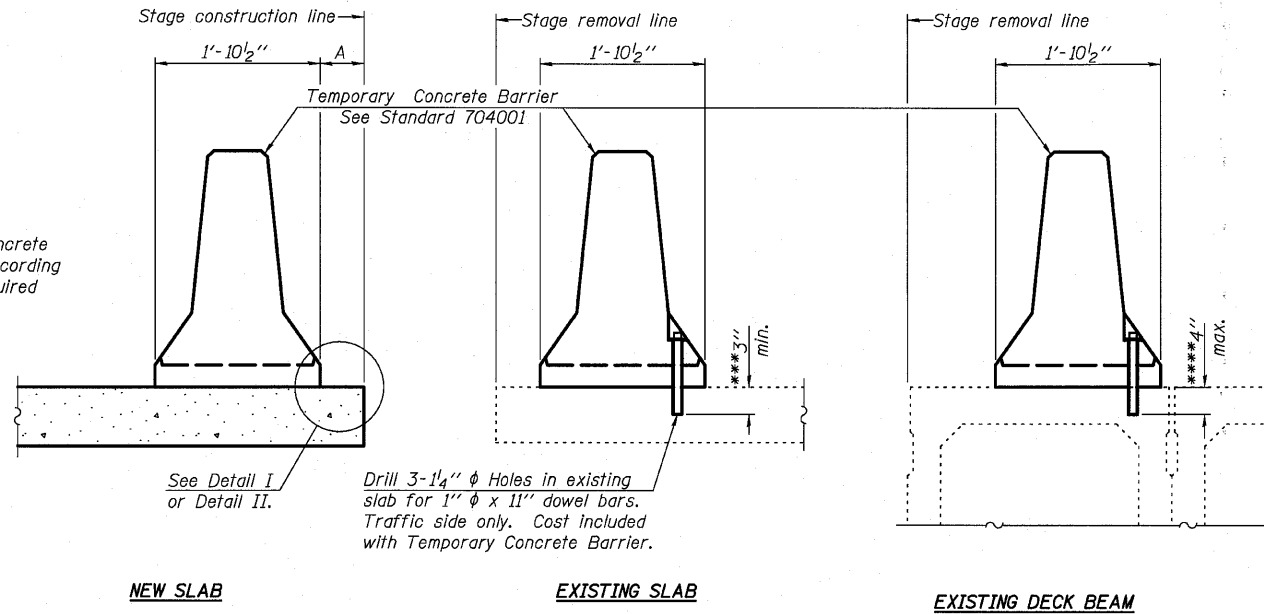
- Notes:
- All staging cross sections are looking North.
 - For quantity of Temporary Concrete Barrier, see roadway plans.
 - If the Contractor chooses to alter the temporary cantilevered sheet piling design requirements shown on the plans, a design submittal including plan details and calculations will be required for review and acceptance by the Engineer.
 - The Contractor shall connect the first sheet to the existing abutment wall to ensure stability of the sheets driven to the top of the existing footing. This connection shall be reviewed and accepted by the Engineer and included in the cost for Temporary Sheet Piling.
 - Hatched area indicates Removal of Existing Structures.
 - Plan dimensions and details relative to the existing structure have been taken from existing plans and are subject to nominal construction variations.
 - The location of the stage construction line shown applies to the superstructure and the abutments. The location of the stage construction line at the pier is shifted 8" to the West.

**STAGE CONSTRUCTION DETAILS
STRUCTURE NO. 098-0117**

WILLS BURKE KELSEY ASSOCIATES LTD. 116 West Main Street, Suite 201 St. Charles, Illinois 60174 (630) 443-7755	SHEET NO. 3	F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
	26 SHEETS	646	8BR-1	WHITESIDE	90	37
CONTRACT NO. 84854						
ILLINOIS FED. AID PROJECT						

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

When "A" is 3'-6" or less, the temporary concrete barrier shall be anchored to the new slab according to Detail I or Detail II. No anchorage is required when "A" is greater than 3'-6".



SECTIONS THRU SLAB OR DECK BEAM

NOTES

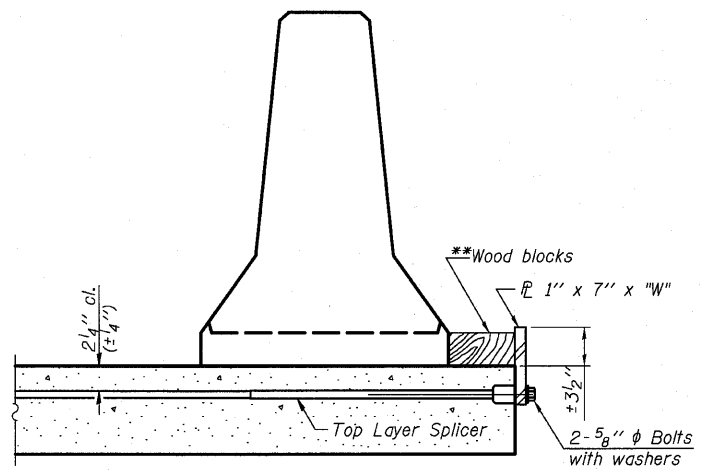
Detail I - With Bar Splicer or Couplers:
Connect one (1) 1"x7"x10" steel \bar{L} to the top layer of couplers with 2-5/8" ϕ bolts screwed to coupler at approximate \bar{C} of each barrier panel.

Detail II - With Extended Reinforcement Bars:
Connect one (1) 1"x7"x10" steel \bar{L} to the concrete slab or concrete wearing surface with 2-5/8" ϕ Expansion Anchors or cast in place inserts spaced between the top layer of reinforcement at approximate \bar{C} of each barrier panel.

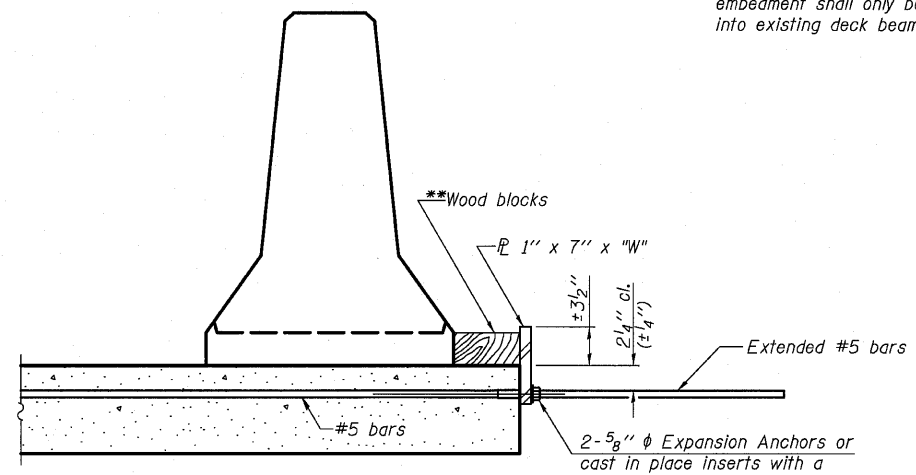
Cost of anchorage is included with Temporary Concrete Barrier. The 1" x 7" x 10" plate shall not be removed until stage II construction forms and all reinforcement bars are in place and the concrete is ready to be placed.

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

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



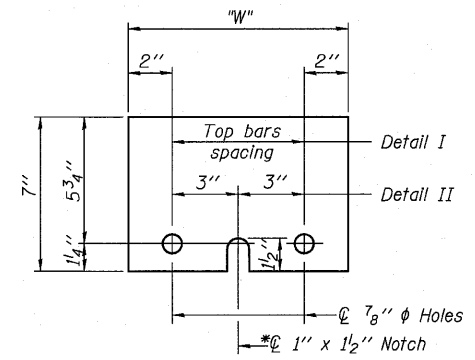
DETAIL I



DETAIL II

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

"W" = Top bars spacing + 4"



STEEL RETAINER \bar{L} 1" x 7" x 10"

* Required only with Detail II

DESIGNED -	AEU
CHECKED -	XXX
DRAWN -	AWH
CHECKED -	AEU

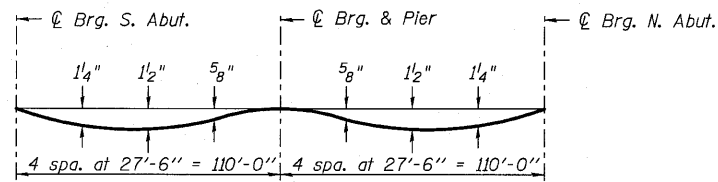
R-27 11-1-09

TEMPORARY CONCRETE BARRIER
FOR STAGE CONSTRUCTION
STRUCTURE NO. 098-0117

WILLS BURKE KELSEY ASSOCIATES LTD. 116 West Main Street, Suite 201 St. Charles, Illinois 60174 (630) 443-7755	SHEET NO. 4	F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
	26 SHEETS	646	8BR-1	WHITESIDE	90	38
					CONTRACT NO. 84854	
ILLINOIS FED. AID PROJECT						

FILE NAME: P:\CIBBEL\WEST-Proj\meta\2009\124100_N09_IL40\Structure\Drawn\0980117-84854-0984-TempConcreteBarrier.dgn PLOT CREATION DATE = 8/2/2010

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

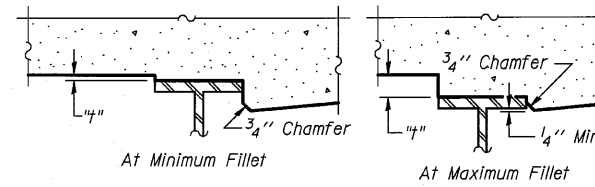


DEAD LOAD DEFLECTION DIAGRAM

(Includes weight of concrete only.)

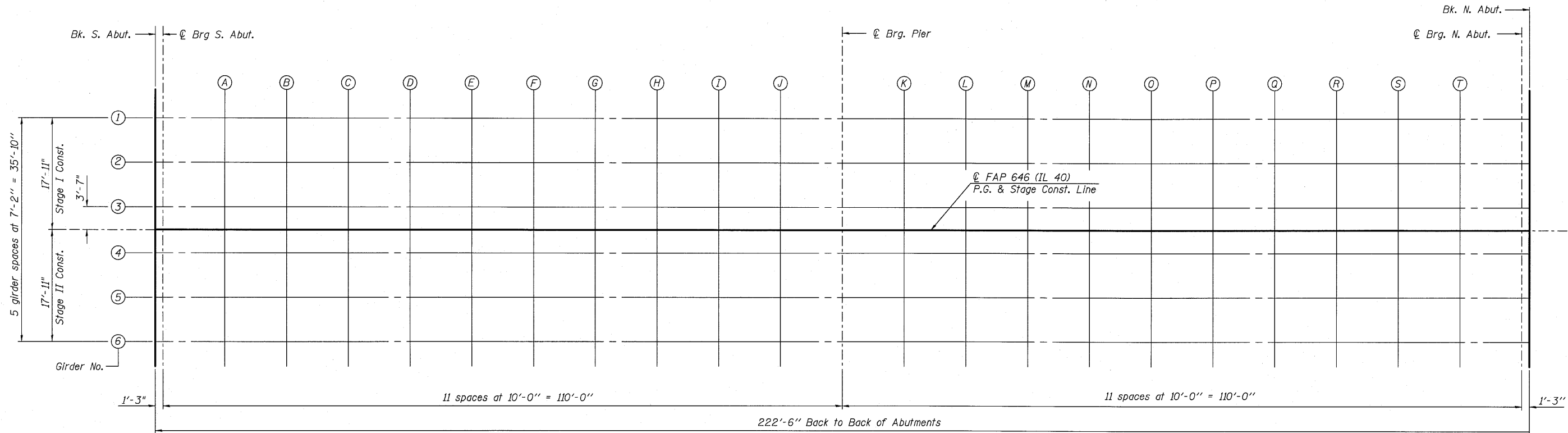
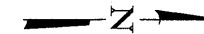
Note:

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 on sheets 6 & 7 of 26.



To determine "t": 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 on sheets 6 & 7 of 26, minus slab thickness, equals the fillet heights "t" above top flange of beams.

FILLET HEIGHTS



PLAN

DESIGNED -	AEU
CHECKED -	MH/DLS
DRAWN -	AWH
CHECKED -	AEU

**TOP OF SLAB ELEVATIONS
STRUCTURE NO. 098-0117**

WILLS BURKE KELSEY ASSOCIATES LTD. 116 West Main Street, Suite 201 St. Charles, Illinois 60174 (630) 443-7755	SHEET NO. 5 26 SHEETS	F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
		646	8BR-1	WHITESIDE	90	39
CONTRACT NO. 84854						
ILLINOIS FED. AID PROJECT						

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

GIRDER 1

GIRDER 2

GIRDER 3

Location	Station	Offset	Theoretical Grade Elevations	Theoretical Grade Elevations Adjusted For Dead Load Deflection
BK. S. ABUT.	942+46.13	-17.92	661.67	661.67
CL BRG. S. ABUT.	942+47.38	-17.92	661.68	661.68
A	942+57.38	-17.92	661.76	661.81
B	942+67.38	-17.92	661.84	661.93
C	942+77.38	-17.92	661.92	662.04
D	942+87.38	-17.92	662.01	662.13
E	942+97.38	-17.92	662.09	662.22
F	943+07.38	-17.92	662.17	662.28
G	943+17.38	-17.92	662.25	662.34
H	943+27.38	-17.92	662.33	662.40
I	943+37.38	-17.92	662.42	662.45
J	943+47.38	-17.92	662.50	662.51
CL PIER	943+57.38	-17.92	662.58	662.58
K	943+67.38	-17.92	662.66	662.67
L	943+77.38	-17.92	662.74	662.78
M	943+87.38	-17.92	662.83	662.89
N	943+97.38	-17.92	662.91	663.00
O	944+07.38	-17.92	662.99	663.10
P	944+17.38	-17.92	663.07	663.20
Q	944+27.38	-17.92	663.15	663.28
R	944+37.38	-17.92	663.24	663.35
S	944+47.38	-17.92	663.32	663.40
T	944+57.38	-17.92	663.40	663.45
CL BRG. N. ABUT.	944+67.38	-17.92	663.48	663.48
BK. N. ABUT.	944+68.63	-17.92	663.49	663.49


Location	Station	Offset	Theoretical Grade Elevations	Theoretical Grade Elevations Adjusted For Dead Load Deflection
BK. S. ABUT.	942+46.13	-10.75	661.81	661.81
CL BRG. S. ABUT.	942+47.38	-10.75	661.82	661.82
A	942+57.38	-10.75	661.90	661.95
B	942+67.38	-10.75	661.98	662.07
C	942+77.38	-10.75	662.07	662.18
D	942+87.38	-10.75	662.15	662.28
E	942+97.38	-10.75	662.23	662.36
F	943+07.38	-10.75	662.31	662.43
G	943+17.38	-10.75	662.39	662.49
H	943+27.38	-10.75	662.48	662.54
I	943+37.38	-10.75	662.56	662.59
J	943+47.38	-10.75	662.64	662.65
CL PIER	943+57.38	-10.75	662.72	662.72
K	943+67.38	-10.75	662.80	662.81
L	943+77.38	-10.75	662.89	662.92
M	943+87.38	-10.75	662.97	663.03
N	943+97.38	-10.75	663.05	663.14
O	944+07.38	-10.75	663.13	663.25
P	944+17.38	-10.75	663.21	663.34
Q	944+27.38	-10.75	663.30	663.42
R	944+37.38	-10.75	663.38	663.49
S	944+47.38	-10.75	663.46	663.55
T	944+57.38	-10.75	663.54	663.59
CL BRG. N. ABUT.	944+67.38	-10.75	663.62	663.62
BK. N. ABUT.	944+68.63	-10.75	663.63	663.63

Location	Station	Offset	Theoretical Grade Elevations	Theoretical Grade Elevations Adjusted For Dead Load Deflection
BK. S. ABUT.	942+46.13	-3.58	661.92	661.92
CL BRG. S. ABUT.	942+47.38	-3.58	661.93	661.93
A	942+57.38	-3.58	662.01	662.06
B	942+67.38	-3.58	662.10	662.18
C	942+77.38	-3.58	662.18	662.29
D	942+87.38	-3.58	662.26	662.39
E	942+97.38	-3.58	662.34	662.47
F	943+07.38	-3.58	662.42	662.54
G	943+17.38	-3.58	662.51	662.60
H	943+27.38	-3.58	662.59	662.65
I	943+37.38	-3.58	662.67	662.70
J	943+47.38	-3.58	662.75	662.76
CL PIER	943+57.38	-3.58	662.83	662.83
K	943+67.38	-3.58	662.92	662.93
L	943+77.38	-3.58	663.00	663.03
M	943+87.38	-3.58	663.08	663.14
N	943+97.38	-3.58	663.16	663.25
O	944+07.38	-3.58	663.24	663.36
P	944+17.38	-3.58	663.33	663.45
Q	944+27.38	-3.58	663.41	663.54
R	944+37.38	-3.58	663.49	663.60
S	944+47.38	-3.58	663.57	663.66
T	944+57.38	-3.58	663.65	663.70
CL BRG. N. ABUT.	944+67.38	-3.58	663.74	663.74
BK. N. ABUT.	944+68.63	-3.58	663.75	663.75

FILE NAME: F:\CIBEL\MEST_Proj\ecta\2009\12\100_W09_IL48\Structure\Drawings\98017-84854-006-TopSlabElev.dgn

DESIGNED -	AEU
CHECKED -	MH/DLS
DRAWN -	AWH
CHECKED -	AEU

**TOP OF SLAB ELEVATIONS
STRUCTURE NO. 098-0117**

 WILLS BURKE KELSEY ASSOCIATES LTD. 116 West Main Street, Suite 201 St. Charles, Illinois 60174 (630) 443-7755	SHEET NO. 6 26 SHEETS	F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
		646	8BR-1	WHITESIDE	90	40
CONTRACT NO. 84854						
ILLINOIS FED. AID PROJECT						

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

**ROADWAY, PROFILE GRADE &
STAGE CONSTRUCTION LINE**

Location	Station	Offset	Theo. Grade Elev.	Theo. Grade Elev. Adj. For Dead Load Deflection
BK. S. ABUT.	942+46.13	0.00	661.98	661.98
CL BRG. S. ABUT.	942+47.38	0.00	661.99	661.99
A	942+57.38	0.00	662.07	662.12
B	942+67.38	0.00	662.15	662.24
C	942+77.38	0.00	662.23	662.35
D	942+87.38	0.00	662.32	662.44
E	942+97.38	0.00	662.40	662.53
F	943+07.38	0.00	662.48	662.60
G	943+17.38	0.00	662.56	662.65
H	943+27.38	0.00	662.64	662.71
I	943+37.38	0.00	662.73	662.76
J	943+47.38	0.00	662.81	662.82
CL PIER	943+57.38	0.00	662.89	662.89
K	943+67.38	0.00	662.97	662.98
L	943+77.38	0.00	663.05	663.09
M	943+87.38	0.00	663.14	663.20
N	943+97.38	0.00	663.22	663.31
O	944+07.38	0.00	663.30	663.42
P	944+17.38	0.00	663.38	663.51
Q	944+27.38	0.00	663.46	663.59
R	944+37.38	0.00	663.55	663.66
S	944+47.38	0.00	663.63	663.71
T	944+57.38	0.00	663.71	663.76
CL BRG. N. ABUT.	944+67.38	0.00	663.79	663.79
BK. N. ABUT.	944+68.63	0.00	663.80	663.80

GIRDER 4

Location	Station	Offset	Theo. Grade Elev.	Theo. Grade Elev. Adj. For Dead Load Deflection
BK. S. ABUT.	942+46.13	3.58	661.92	661.92
CL BRG. S. ABUT.	942+47.38	3.58	661.93	661.93
A	942+57.38	3.58	662.01	662.06
B	942+67.38	3.58	662.10	662.18
C	942+77.38	3.58	662.18	662.29
D	942+87.38	3.58	662.26	662.39
E	942+97.38	3.58	662.34	662.47
F	943+07.38	3.58	662.42	662.54
G	943+17.38	3.58	662.51	662.60
H	943+27.38	3.58	662.59	662.65
I	943+37.38	3.58	662.67	662.70
J	943+47.38	3.58	662.75	662.76
CL PIER	943+57.38	3.58	662.83	662.83
K	943+67.38	3.58	662.92	662.93
L	943+77.38	3.58	663.00	663.03
M	943+87.38	3.58	663.08	663.14
N	943+97.38	3.58	663.16	663.25
O	944+07.38	3.58	663.24	663.36
P	944+17.38	3.58	663.33	663.45
Q	944+27.38	3.58	663.41	663.54
R	944+37.38	3.58	663.49	663.60
S	944+47.38	3.58	663.57	663.66
T	944+57.38	3.58	663.65	663.70
CL BRG. N. ABUT.	944+67.38	3.58	663.74	663.74
BK. N. ABUT.	944+68.63	3.58	663.75	663.75

GIRDER 5

Location	Station	Offset	Theo. Grade Elev.	Theo. Grade Elev. Adj. For Dead Load Deflection
BK. S. ABUT.	942+46.13	10.75	661.81	661.81
CL BRG. S. ABUT.	942+47.38	10.75	661.82	661.82
A	942+57.38	10.75	661.90	661.95
B	942+67.38	10.75	661.98	662.07
C	942+77.38	10.75	662.07	662.18
D	942+87.38	10.75	662.15	662.28
E	942+97.38	10.75	662.23	662.36
F	943+07.38	10.75	662.31	662.43
G	943+17.38	10.75	662.39	662.49
H	943+27.38	10.75	662.48	662.54
I	943+37.38	10.75	662.56	662.59
J	943+47.38	10.75	662.64	662.65
CL PIER	943+57.38	10.75	662.72	662.72
K	943+67.38	10.75	662.80	662.81
L	943+77.38	10.75	662.89	662.92
M	943+87.38	10.75	662.97	663.03
N	943+97.38	10.75	663.05	663.14
O	944+07.38	10.75	663.13	663.25
P	944+17.38	10.75	663.21	663.34
Q	944+27.38	10.75	663.30	663.42
R	944+37.38	10.75	663.38	663.49
S	944+47.38	10.75	663.46	663.55
T	944+57.38	10.75	663.54	663.59
CL BRG. N. ABUT.	944+67.38	10.75	663.62	663.62
BK. N. ABUT.	944+68.63	10.75	663.63	663.63

GIRDER 6

Location	Station	Offset	Theo. Grade Elev.	Theo. Grade Elev. Adj. For Dead Load Deflection
BK. S. ABUT.	942+46.13	17.92	661.67	661.67
CL BRG. S. ABUT.	942+47.38	17.92	661.68	661.68
A	942+57.38	17.92	661.76	661.81
B	942+67.38	17.92	661.84	661.93
C	942+77.38	17.92	661.92	662.04
D	942+87.38	17.92	662.01	662.13
E	942+97.38	17.92	662.09	662.22
F	943+07.38	17.92	662.17	662.28
G	943+17.38	17.92	662.25	662.34
H	943+27.38	17.92	662.33	662.40
I	943+37.38	17.92	662.42	662.45
J	943+47.38	17.92	662.50	662.51
CL PIER	943+57.38	17.92	662.58	662.58
K	943+67.38	17.92	662.66	662.67
L	943+77.38	17.92	662.74	662.78
M	943+87.38	17.92	662.83	662.89
N	943+97.38	17.92	662.91	663.00
O	944+07.38	17.92	662.99	663.10
P	944+17.38	17.92	663.07	663.20
Q	944+27.38	17.92	663.15	663.28
R	944+37.38	17.92	663.24	663.35
S	944+47.38	17.92	663.32	663.40
T	944+57.38	17.92	663.40	663.45
CL BRG. N. ABUT.	944+67.38	17.92	663.48	663.48
BK. N. ABUT.	944+68.63	17.92	663.49	663.49

**TOP OF SLAB ELEVATIONS
STRUCTURE NO. 098-0117**

DESIGNED -	AEU
CHECKED -	MH/DLS
DRAWN -	AWH
CHECKED -	AEU

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

SHEET NO. 7	F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
26 SHEETS	646	8BR-1	WHITESIDE	90	41
				CONTRACT NO. 84854	
ILLINOIS FED. AID PROJECT					

FILE NAME: P:\CBBEL\WEST Projects\2009\121108_003_IL_48\Structural\Draw\0980117-84854-007-TopSlabElev.dwg
PLOT CREATION DATE = 8/2/2010

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

WEST CURB LINE

Location	Station	Offset	Theoretical Grade Elevations
End S. Appr. Slab	942+16.13	-20.42	661.37
A1	942+26.13	-20.42	661.45
A2	942+36.13	-20.00	661.54
Bk. S. Abut.	942+46.13	-20.00	661.62

WEST EDGE OF PAVEMENT

Location	Station	Offset	Theoretical Grade Elevations
End S. Appr. Slab	942+16.13	-12.00	661.54
A1	942+26.13	-12.00	661.63
A2	942+36.13	-12.00	661.71
Bk. S. Abut.	942+46.13	-12.00	661.79

☉ ROADWAY, P.G. & STAGE CONSTRUCTION JOINT

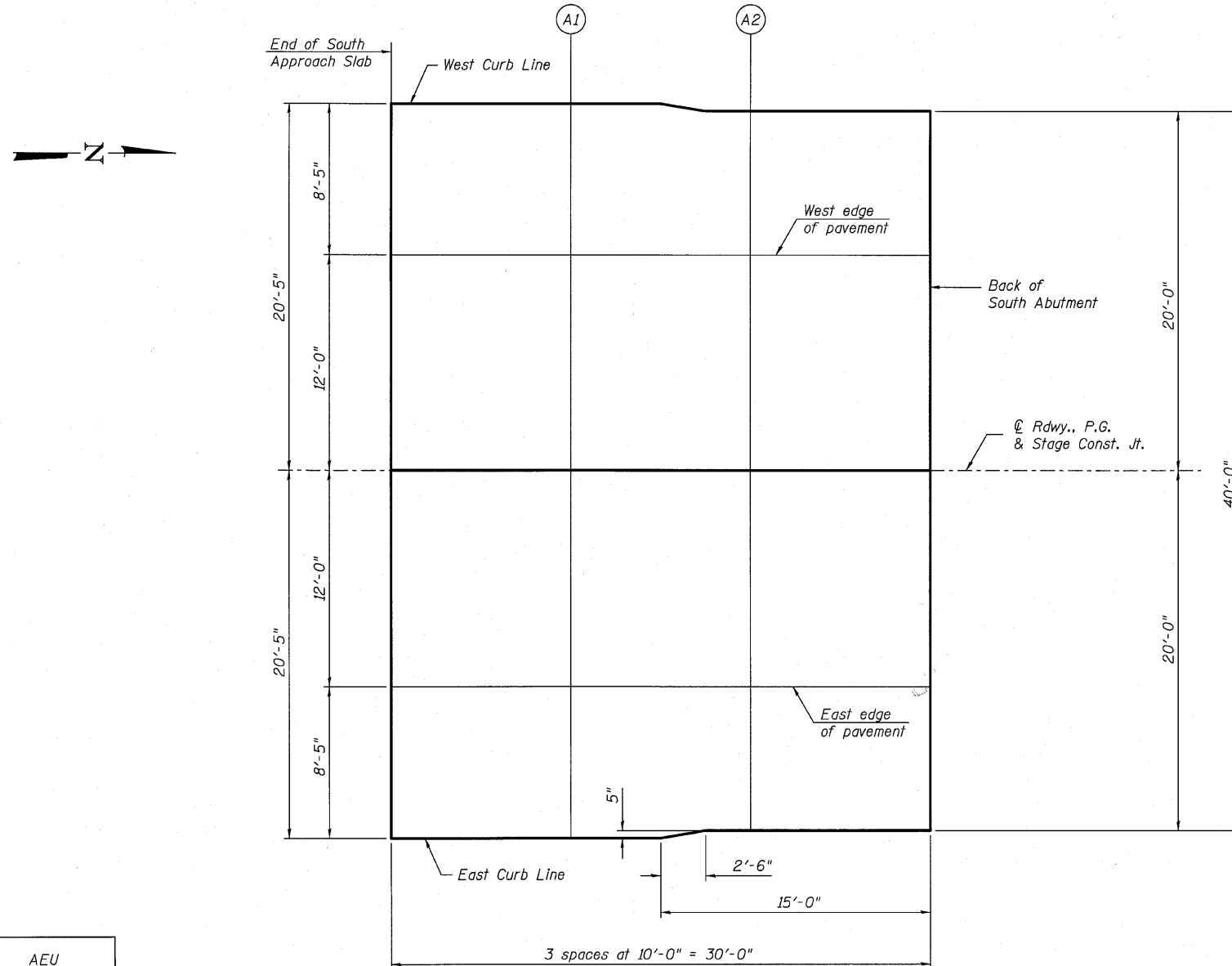
Location	Station	Offset	Theoretical Grade Elevations
End S. Appr. Slab	942+16.13	0.00	661.73
A1	942+26.13	0.00	661.81
A2	942+36.13	0.00	661.90
Bk. S. Abut.	942+46.13	0.00	661.98

EAST EDGE OF PAVEMENT

Location	Station	Offset	Theoretical Grade Elevations
End S. Appr. Slab	942+16.13	12.00	661.54
A1	942+26.13	12.00	661.63
A2	942+36.13	12.00	661.71
Bk. S. Abut.	942+46.13	12.00	661.79

EAST CURB LINE

Location	Station	Offset	Theoretical Grade Elevations
End S. Appr. Slab	942+16.13	20.42	661.37
A1	942+26.13	20.42	661.45
A2	942+36.13	20.00	661.54
Bk. S. Abut.	942+46.13	20.00	661.62



PLAN

TOP OF SOUTH APPROACH
SLAB ELEVATIONS
STRUCTURE NO. 098-0117

DESIGNED -	AEU
CHECKED -	MH/DLS
DRAWN -	AWH
CHECKED -	AEU

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116 West Main Street, Suite 201
St. Charles, Illinois 60174
(630) 443-7755

SHEET NO. 8
26 SHEETS

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
646	8BR-1	WHITESIDE	90	42
ILLINOIS FED. AID PROJECT			CONTRACT NO. 84854	

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

WEST CURB LINE

Location	Station	Offset	Theoretical Grade Elevations
Bk. N. Abut.	944+68.63	-20.00	663.45
A3	944+78.63	-20.00	663.52
A4	944+88.63	-20.42	663.58
End N. Appr. Slab	944+98.63	-20.42	663.65

WEST EDGE OF PAVEMENT

Location	Station	Offset	Theoretical Grade Elevations
Bk. N. Abut.	944+68.63	-12.00	663.62
A3	944+78.63	-12.00	663.68
A4	944+88.63	-12.00	663.76
End N. Appr. Slab	944+98.63	-12.00	663.83

☉ ROADWAY, P.G. & STAGE CONSTRUCTION JOINT

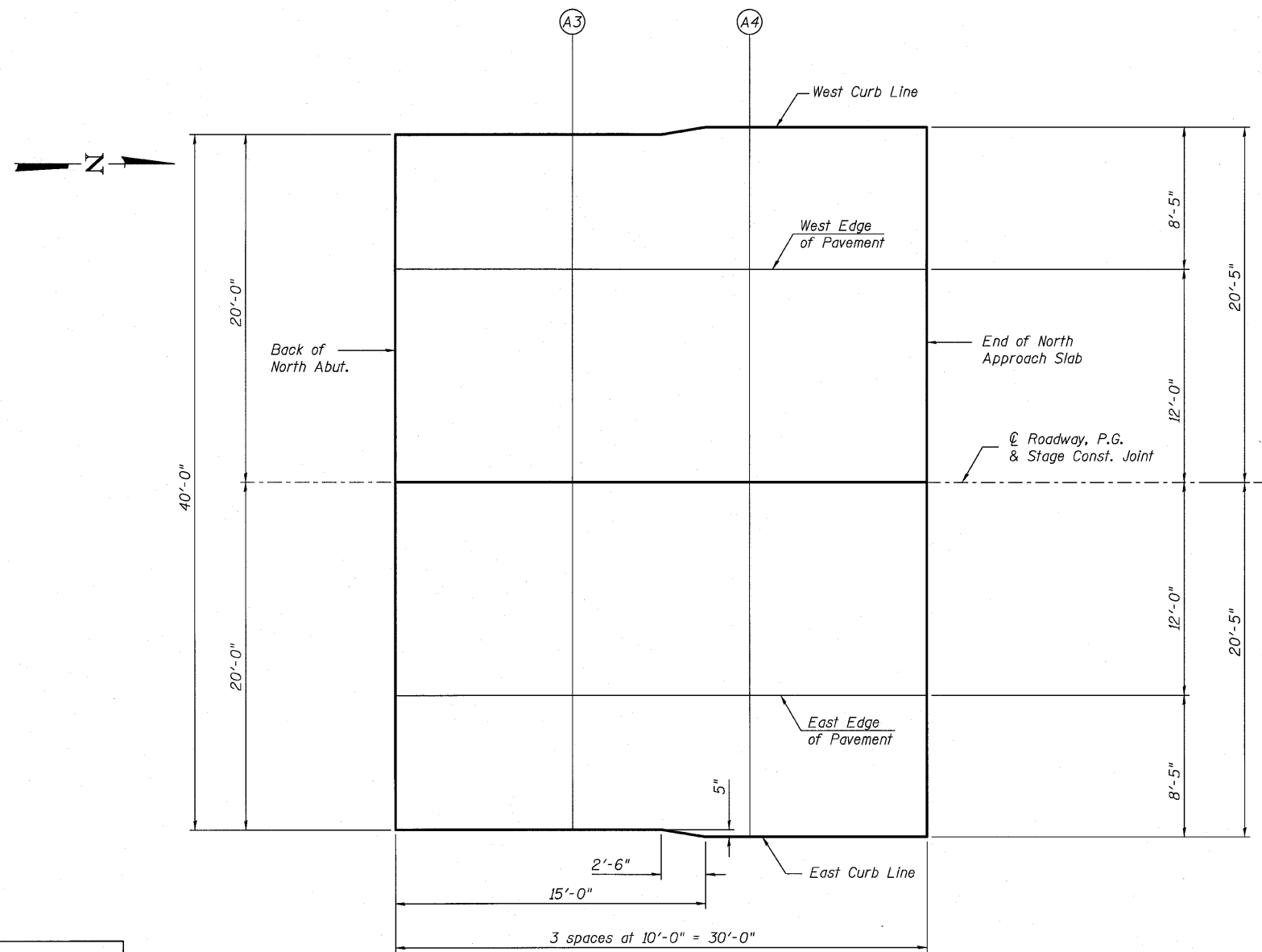
Location	Station	Offset	Theoretical Grade Elevations
Bk. N. Abut.	944+68.63	0.00	663.80
A3	944+78.63	0.00	663.87
A4	944+88.63	0.00	663.95
End N. Appr. Slab	944+98.63	0.00	664.02

EAST EDGE OF PAVEMENT

Location	Station	Offset	Theoretical Grade Elevations
Bk. N. Abut.	944+68.63	12.00	663.62
A3	944+78.63	12.00	663.68
A4	944+88.63	12.00	663.76
End N. Appr. Slab	944+98.63	12.00	663.83

EAST CURB LINE

Location	Station	Offset	Theoretical Grade Elevations
Bk. N. Abut.	944+68.63	20.00	663.45
A3	944+78.63	20.00	663.52
A4	944+88.63	20.42	663.58
End N. Appr. Slab	944+98.63	20.42	663.65



PLAN

TOP OF NORTH APPROACH
SLAB ELEVATIONS
STRUCTURE NO. 098-0117

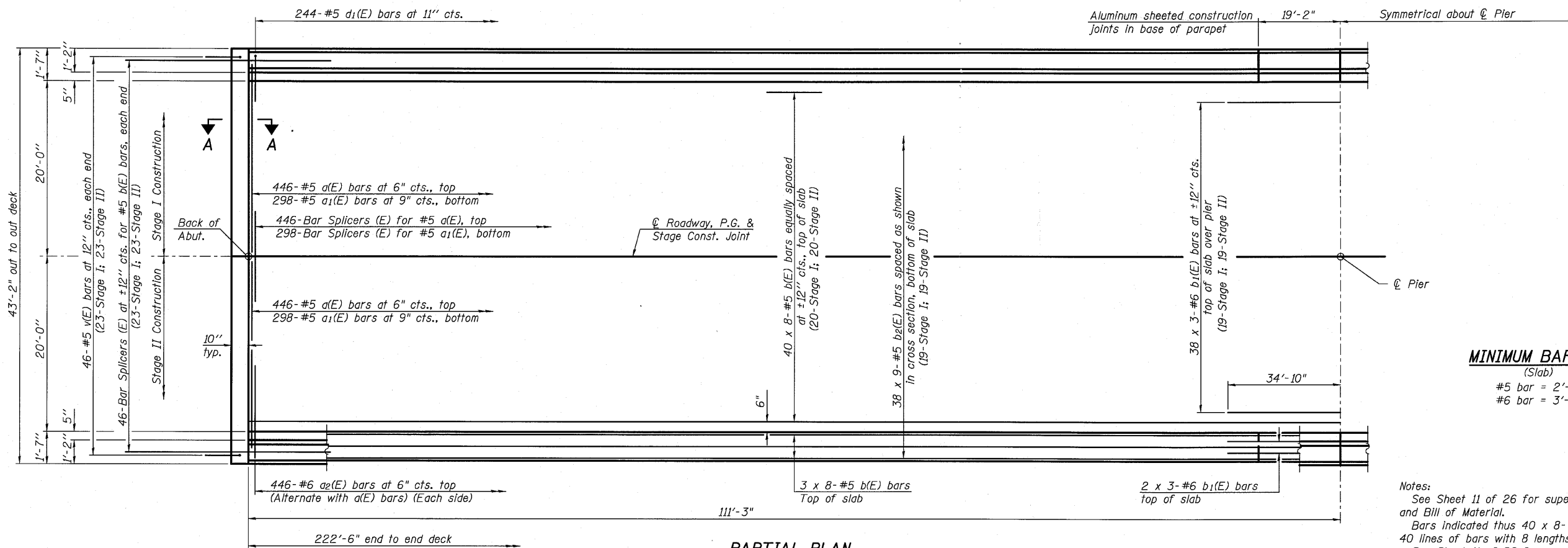
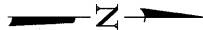
DESIGNED -	AEU
CHECKED -	MH/DLS
DRAWN -	AWH
CHECKED -	AEU

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

SHEET NO. 9 26 SHEETS	F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
	646	8BR-1	WHITESIDE	90	43
			CONTRACT NO. 84854		
ILLINOIS FED. AID PROJECT					

FILE NAME: F:\CIBBEL\WEST_Proj\eta\eta\121008.MDPS_IL_40\Structural\Draw\0980117-84854-009-TopAppSlabElev.dgn
PLOT CREATION DATE = 8/2/2010

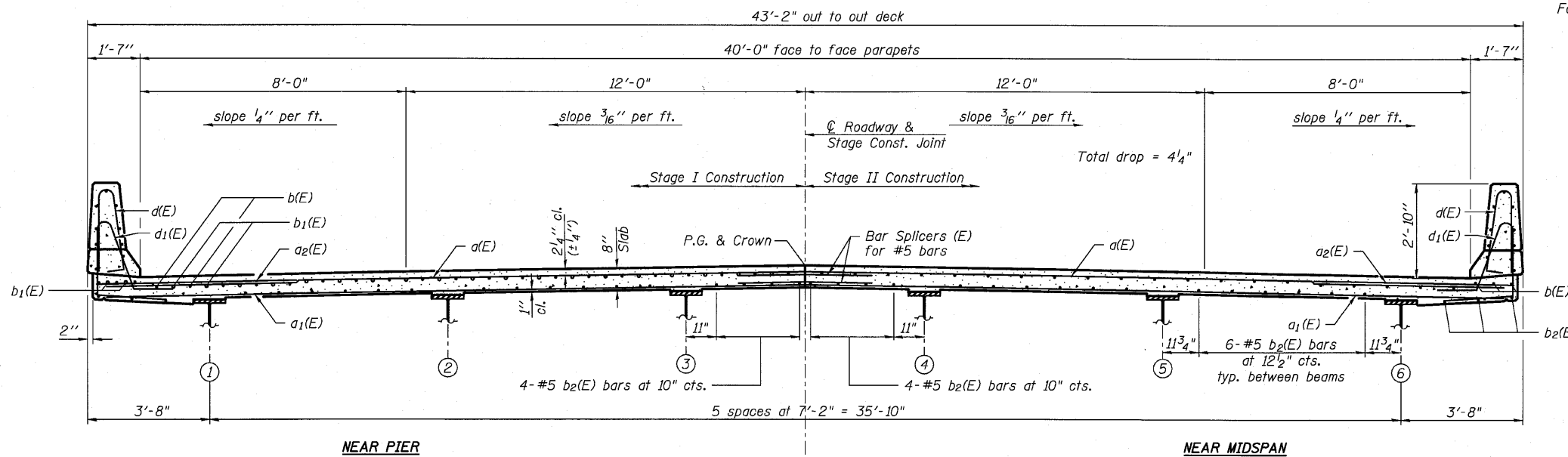
STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION



PARTIAL PLAN

MINIMUM BAR LAP
(Slab)
#5 bar = 2'-7"
#6 bar = 3'-1"

Notes:
See Sheet 11 of 26 for superstructure details and Bill of Material.
Bars indicated thus 40 x 8 #5 etc. indicates 40 lines of bars with 8 lengths per line.
See Sheet 11 of 26 for parapet reinforcement.
See Sheet 14 of 26 for section A-A.
For details of Bar Splicers, see Sheet 22 of 26.



CROSS SECTION
(Looking North)

SUPERSTRUCTURE
STRUCTURE NO. 098-0117

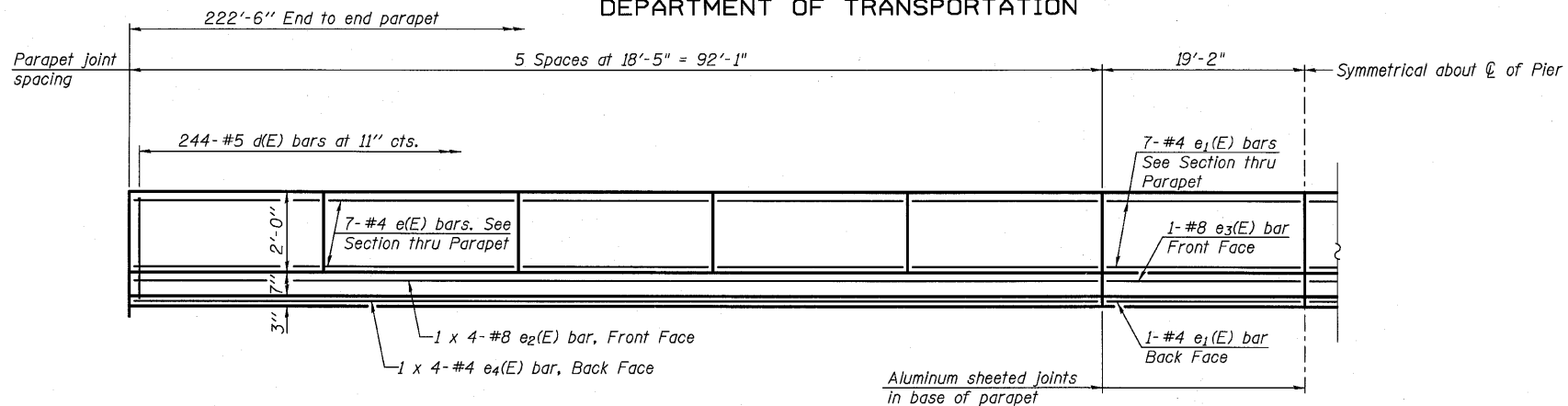
DESIGNED -	AEU
CHECKED -	DLS
DRAWN -	AWH
CHECKED -	AEU

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

SHEET NO. 10
26 SHEETS

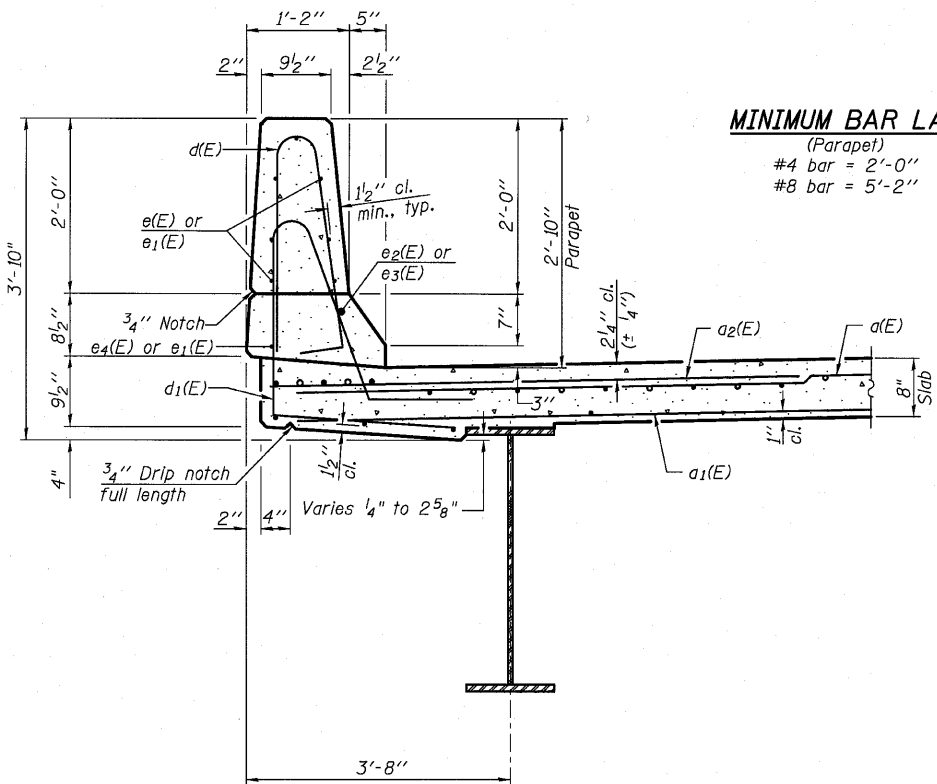
F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
646	8BR-1	WHITESIDE	90	44
CONTRACT NO. 84854				
ILLINOIS FED. AID PROJECT				

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

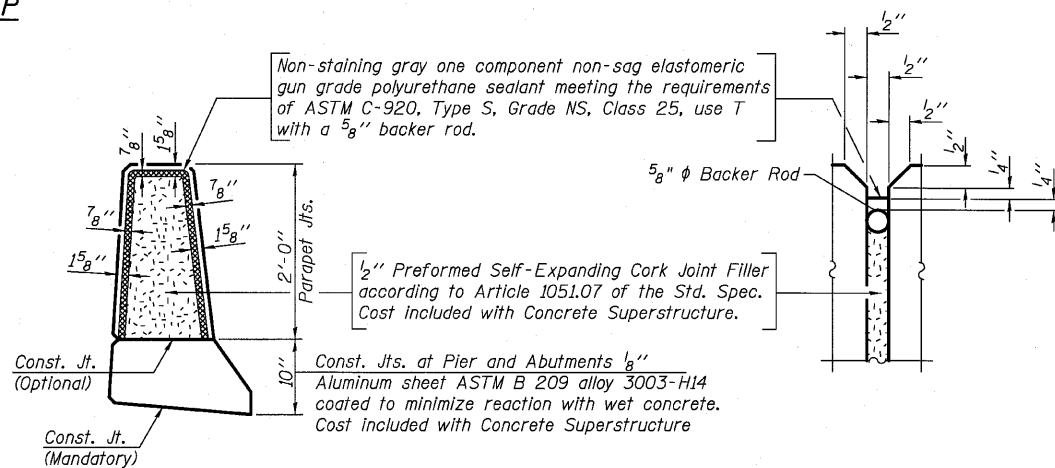


INSIDE ELEVATION OF PARAPET

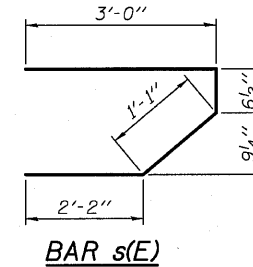
MINIMUM BAR LAP
(Parapet)
#4 bar = 2'-0"
#8 bar = 5'-2"



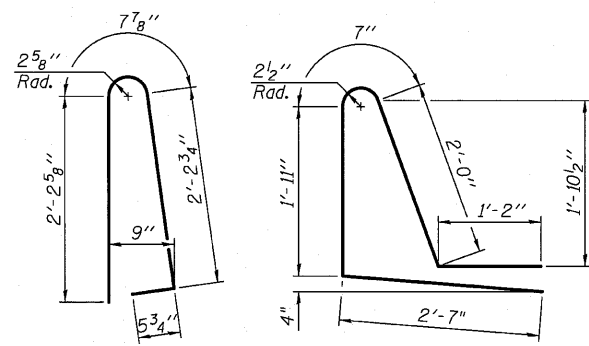
SECTION THRU PARAPET



PARAPET JOINT DETAILS

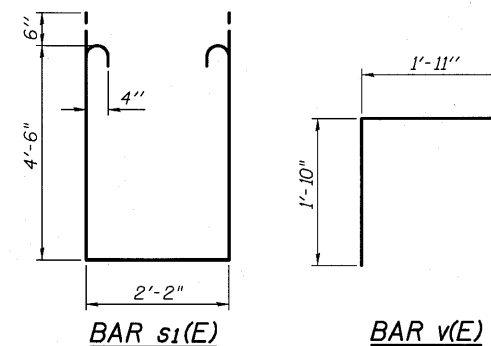


BAR s(E)



BAR d(E)

BAR d1(E)



BAR s1(E)

BAR v(E)

**SUPERSTRUCTURE
BILL OF MATERIAL**

Bar	No.	Size	Length	Shape
d(E)	892	#5	21'-1"	—
a1(E)	596	#5	20'-6"	—
a2(E)	892	#6	6'-6"	—
b(E)	368	#5	30'-1"	—
b1(E)	126	#6	25'-4"	—
b2(E)	342	#5	27'-0"	—
d(E)	488	#5	5'-7"	┘
d1(E)	488	#5	8'-3"	┘
e(E)	140	#4	18'-1"	—
e1(E)	32	#4	18'-10"	—
e2(E)	16	#8	26'-10"	—
e3(E)	4	#8	18'-10"	—
e4(E)	16	#4	24'-6"	—
m(E)	20	#6	21'-3"	—
m1(E)	16	#6	10'-6"	—
m2(E)	8	#6	6'-10"	—
m3(E)	8	#6	3'-3"	—
m4(E)	8	#6	8'-9"	—
s(E)	96	#5	6'-10"	┘
s1(E)	88	#4	12'-2"	┘
v(E)	92	#5	3'-9"	┘

Reinforcement Bars, Epoxy Coated	Pound	80,660
Concrete Superstructure	Cu. Yds.	344.6

Bars indicated thus 1 x 4 - #8 etc. indicates 1 line of bars with 4 lengths per line.

**SUPERSTRUCTURE DETAILS
STRUCTURE NO. 098-0117**

DESIGNED -	AEU
CHECKED -	MH/DLS
DRAWN -	AWH
CHECKED -	AEU

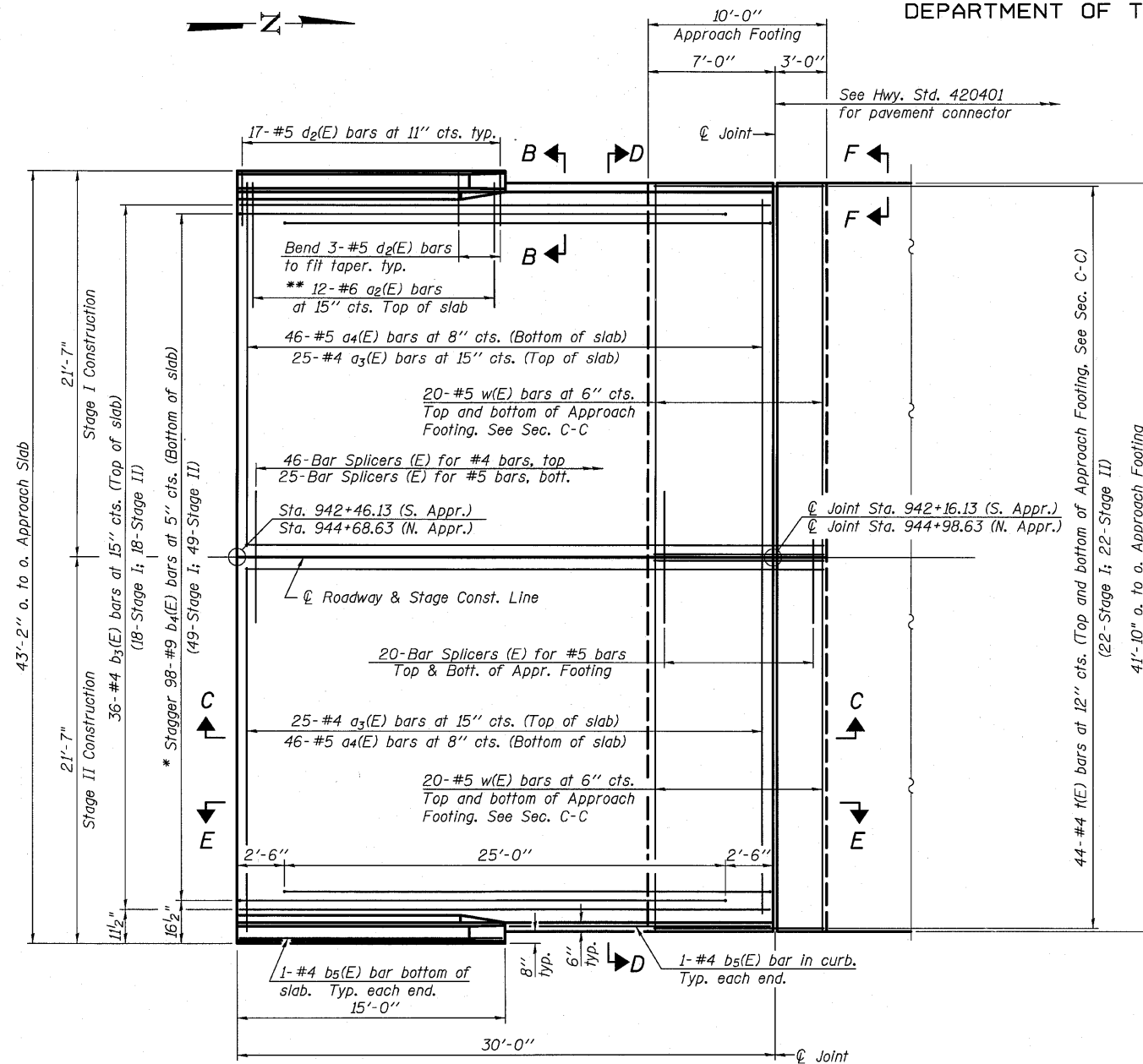
WILLS BURKE KELSEY ASSOCIATES LTD.
116 West Main Street, Suite 201
St. Charles, Illinois 60174
(630) 443-7755

SHEET NO. 11
26 SHEETS

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
646	8BR-1	WHITESIDE	90	45
CONTRACT NO. 84854				
ILLINOIS FED. AID PROJECT				

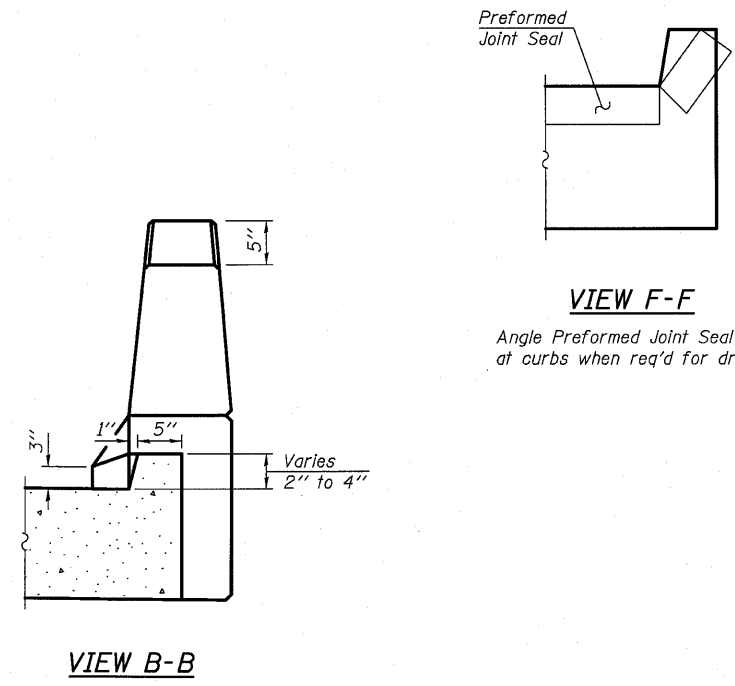
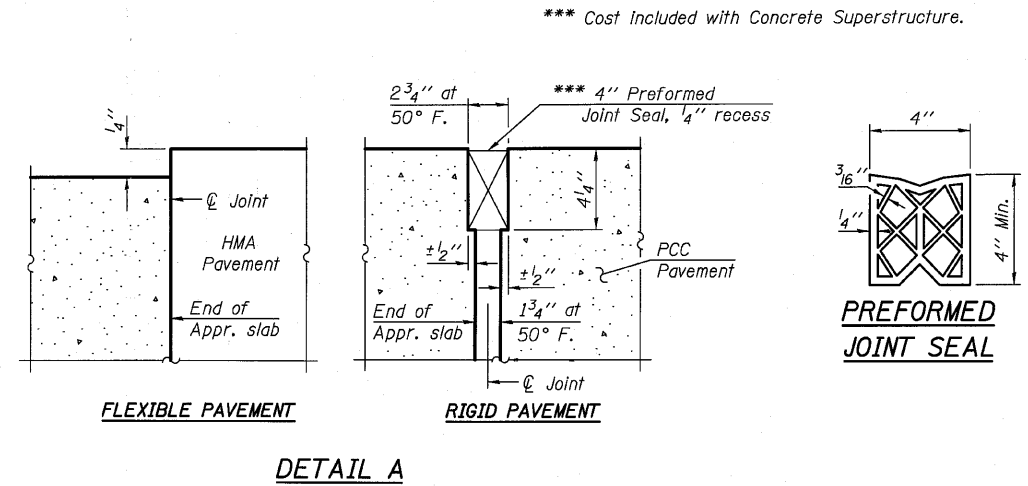
STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

Notes:
See sheet 13 of 26 for Sections C-C & D-D and View E-E.
a₃(E) and a₄(E) bar spacings measured along ϕ Rdwy.



PLAN
(North Approach shown, South Approach similar)

* Tilt #9 b₄(E) bars as required to maintain clearance.
** Space between a₃(E) bars, typ. ea. parapet.



VIEW B-B

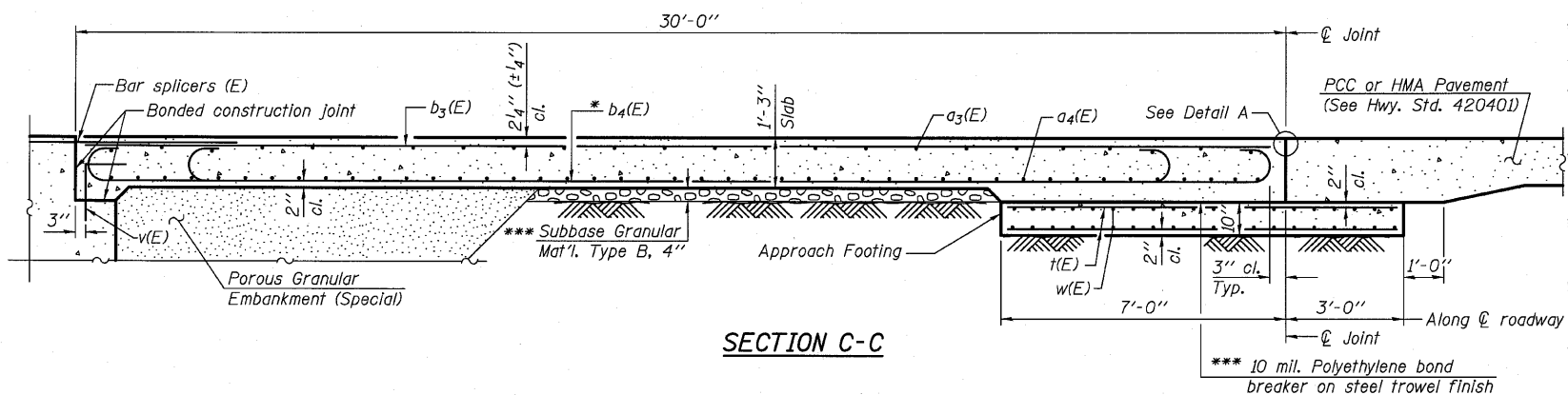
DESIGNED -	AEU
CHECKED -	MH/DLS
DRAWN -	AWH
CHECKED -	AEU

(Sheet 1 of 2)
BRIDGE APPROACH SLAB DETAILS
STRUCTURE NO. 098-0117

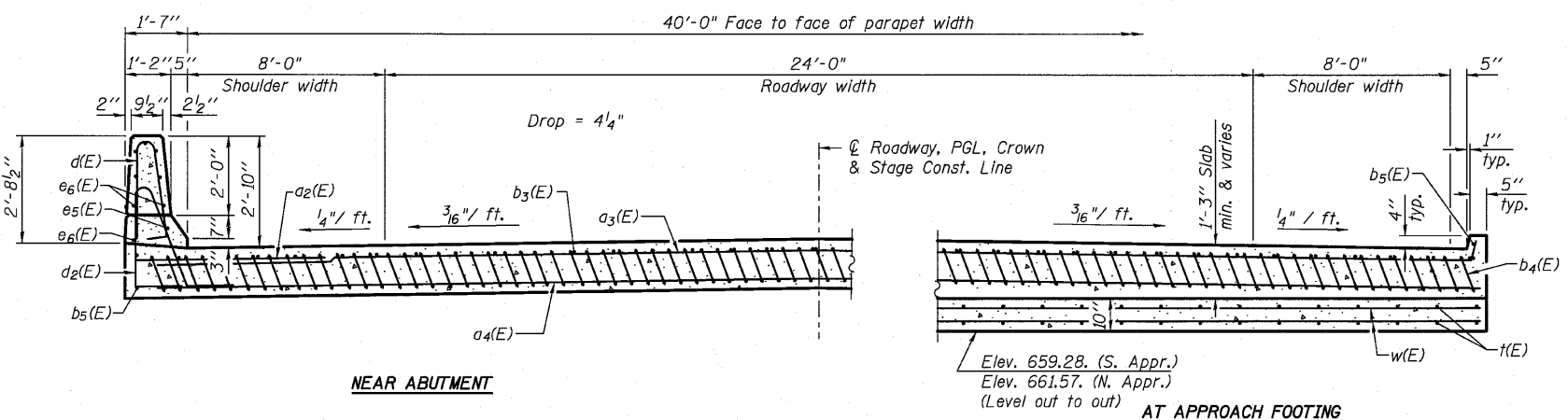
WILLS BURKE KELSEY ASSOCIATES LTD. 116 West Main Street, Suite 201 St. Charles, Illinois 60174 (630) 443-7755	SHEET NO. 12	F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.	
	26 SHEETS	646	8BR-1	WHITESIDE	90	46	
						CONTRACT NO. 84854	
							ILLINOIS FED. AID PROJECT

FILE NAME: P:\CIBEL WEST Proj\05\121200\1148\Structural\Drawings\0980117-84854-012-App-Slab1.dwg

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION



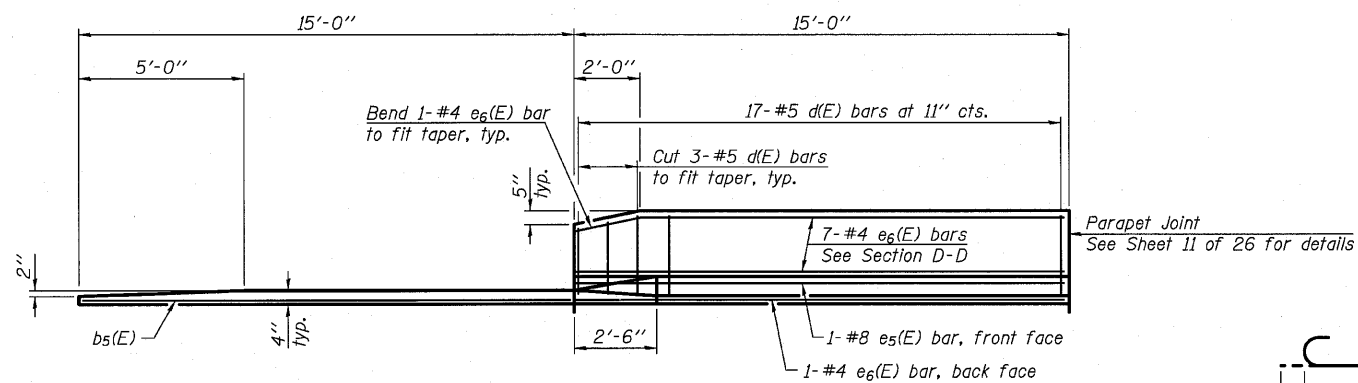
SECTION C-C



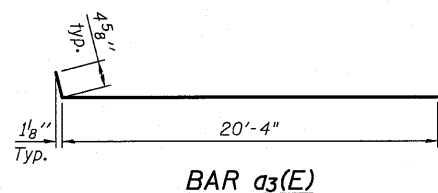
NEAR ABUTMENT

SECTION D-D

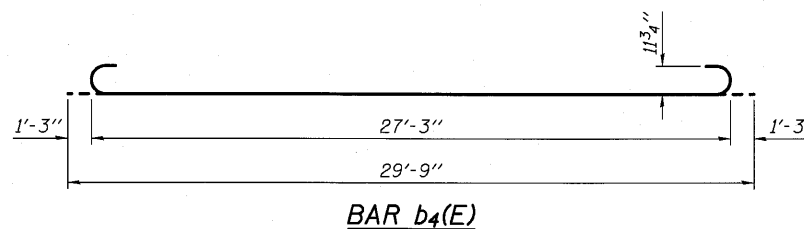
(See Plan for dimensions not shown)



VIEW E-E



BAR a3(E)



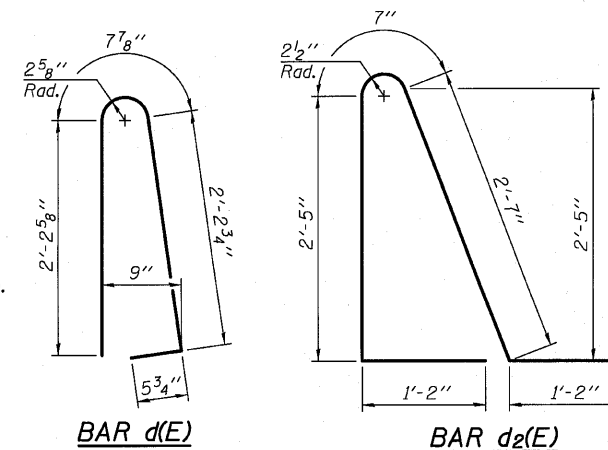
BAR b4(E)

Notes:

- See sheet 12 of 26 for Detail A.
- 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 11 of 26.
- The approach footing maximum applied service bearing pressure (Qmax) = 2.0 ksf.
- For bar splicer details, see sheet 22 of 26.
- Cost of excavation for approach footing included with Concrete Structures.
- For Porous Granular Embankment (Special) and drainage treatment details, see sheet 2 of 26.
- For additional parapet details, see sheet 11 of 26.

* Tilt #9 b4(E) bars as required to maintain clearance.

*** Cost included with Concrete Superstructure.



BAR d(E)

BAR d2(E)

TWO APPROACHES
BILL OF MATERIAL

Bar	No.	Size	Length	Shape
a2(E)	48	#6	6'-6"	—
a3(E)	100	#4	20'-9"	—
a4(E)	184	#5	20'-7"	—
b3(E)	72	#4	29'-8"	—
b4(E)	196	#9	29'-9"	—
b5(E)	8	#4	14'-8"	—
d(E)	68	#5	5'-7"	⤴
d2(E)	68	#5	7'-11"	⤴
e5(E)	4	#8	14'-8"	—
e6(E)	32	#4	14'-8"	—
t(E)	176	#4	9'-8"	—
w(E)	160	#5	20'-7"	—
Concrete Superstructure		Cu. Yd.	133.2	
Concrete Structures		Cu. Yd.	25.8	
Reinforcement Bars, Epoxy Coated		Pound	33,130	

(Sheet 2 of 2)
BRIDGE APPROACH SLAB DETAILS
STRUCTURE NO. 098-0117

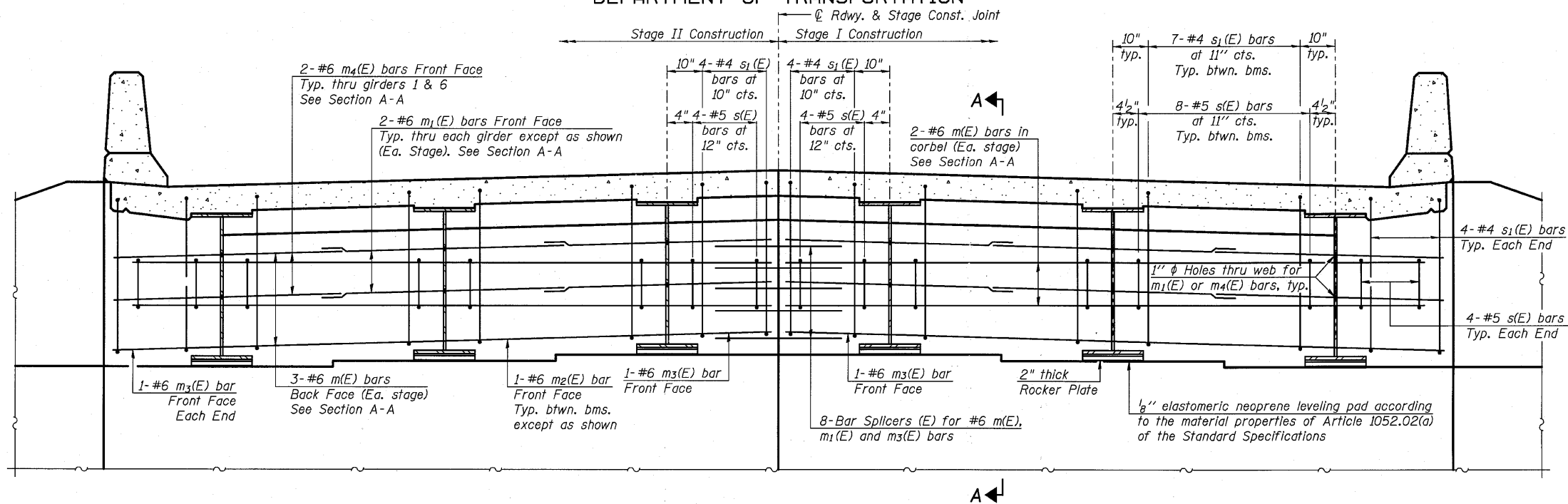
DESIGNED -	AEU
CHECKED -	MH/DLS
DRAWN -	AWH
CHECKED -	AEU

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SHEET NO. 13
26 SHEETS

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
646	8BR-1	WHITESIDE	90	47
ILLINOIS FED. AID PROJECT			CONTRACT NO. 84854	

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION



DIAPHRAGM ELEVATION AT SOUTH ABUTMENT

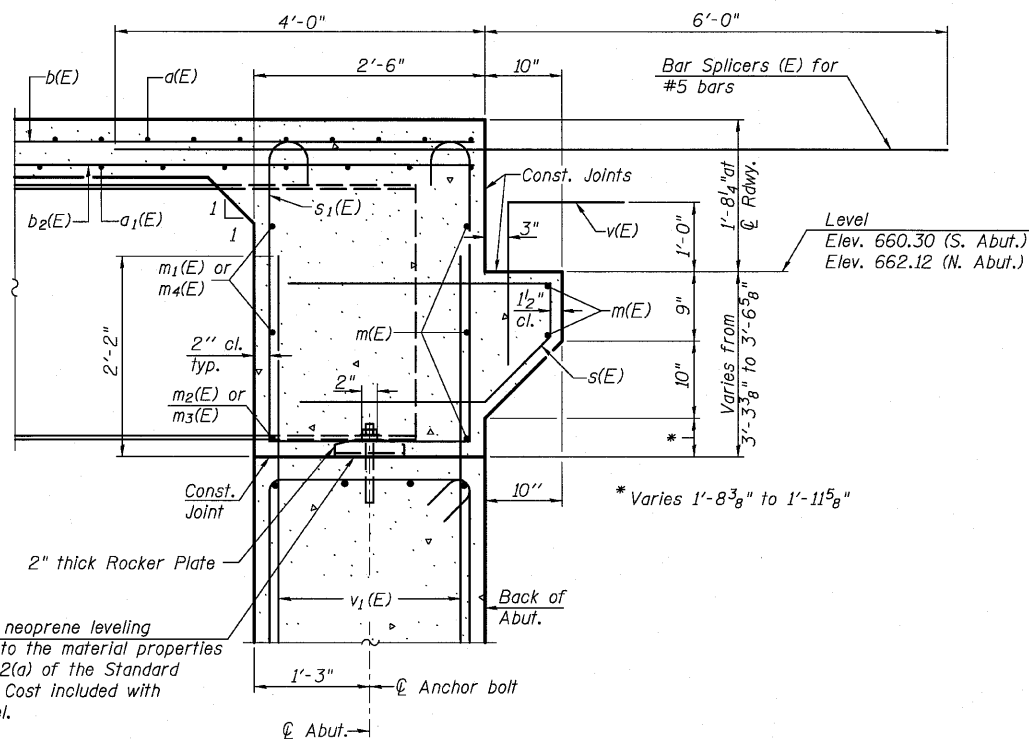
(Looking South - North abutment similar)

Notes:

Reinforcement bars in diaphragm are billed with superstructure on sheet 11 of 26.
Concrete in diaphragm is included with Concrete Superstructure on sheet 11 of 26.
For details of bars s(E) & s1(E) see sheet 11 of 26.
For location of holes thru web, see sheet 15 of 26.

MIN. BAR LAP

#6 bar = 3'-4"



SECTION A-A

**DIAPHRAGM DETAILS
STRUCTURE NO. 098-0117**

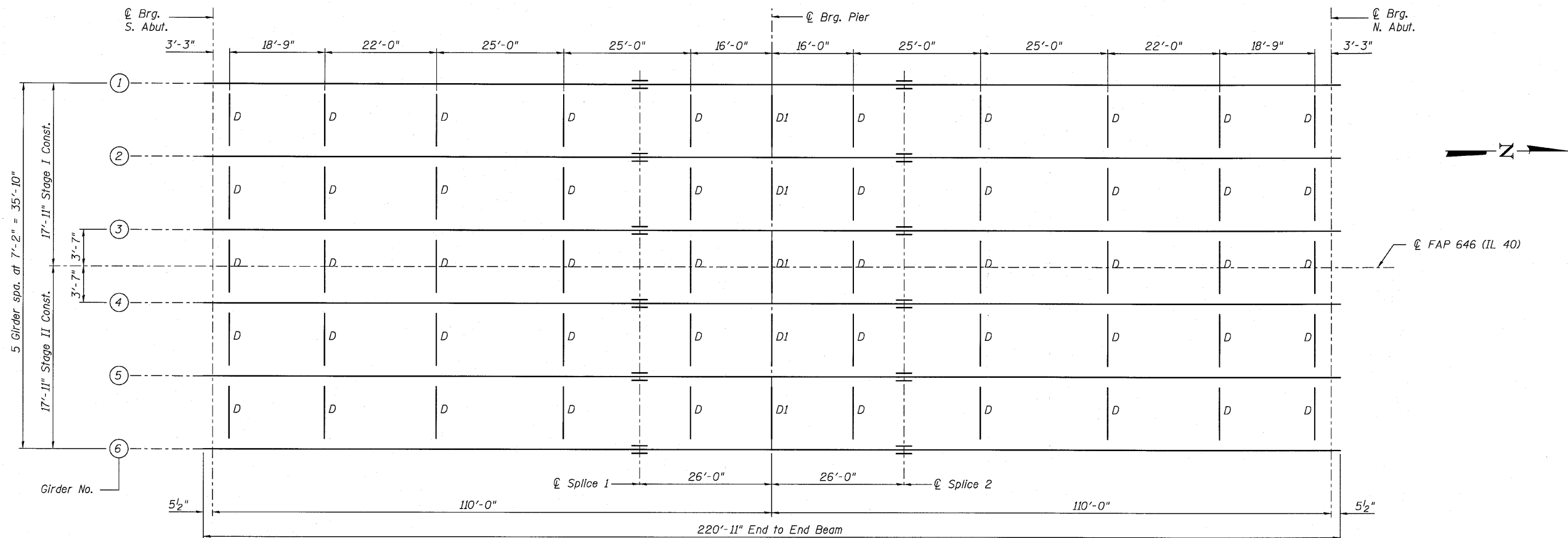
DESIGNED -	AEU
CHECKED -	MH/DLS
DRAWN -	AWH
CHECKED -	AEU

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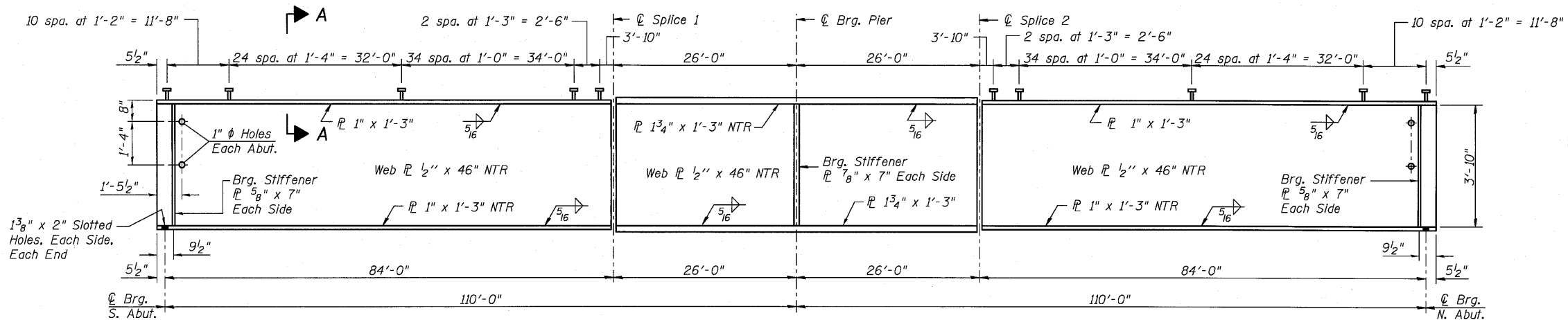
SHEET NO. 14
26 SHEETS

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
646	8BR-1	WHITESIDE	90	48
CONTRACT NO. 84854				
ILLINOIS FED. AID PROJECT				

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

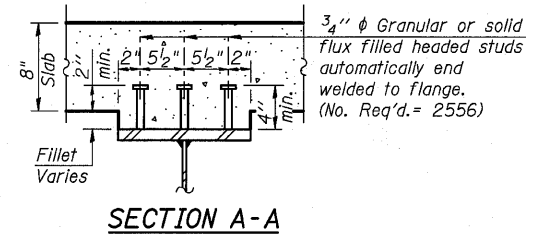


FRAMING PLAN



GIRDER ELEVATION

All plates and bearing stiffeners shall be AASHTO M 270 Grade 50.



SECTION A-A

Notes:

Load carrying components designated "NTR" shall conform to the Supplemental Requirements for Notch Toughness, Zone 2.

All cross frames or diaphragms shall be installed as steel is erected and secured with erection pins and bolts except as otherwise noted. Individual cross frames or diaphragms at supports may be temporarily disconnected to install bearing anchor rods.

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

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SHEET NO. 15
26 SHEETS

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
646	8BR-1	WHITESIDE	90	49
CONTRACT NO. 84854				
ILLINOIS FED. AID PROJECT				

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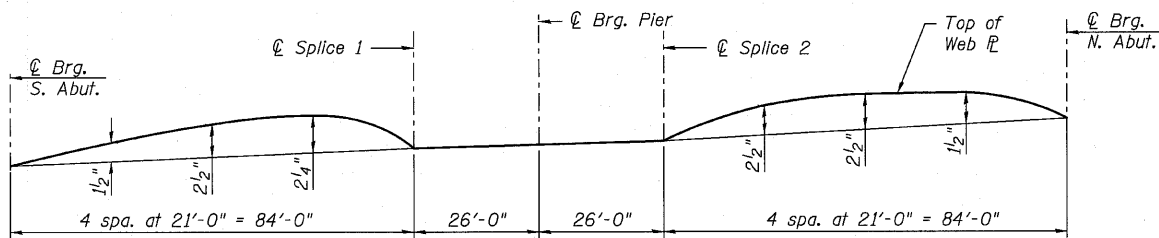
PLOT CREATION DATE = 8/2/2010

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

INTERIOR GIRDER MOMENT TABLE		
	0.4 Sp. 1 or 0.6 Sp. 2	Pier
I_s	(in ⁴) 20,626	33,995
$I_c(n)$	(in ⁴) 45,572	
$I_c(3n)$	(in ⁴) 34,253	
S_s	(in ³) 859	1,374
$S_c(n)$	(in ³) 1,124	
$S_c(3n)$	(in ³) 1,035	
DC1	(k/ft) 0.92	1.01
M _{DC1}	(k) 709	1739
DC2	(k/ft) 0.15	0.15
M _{DC2}	(k) 127	227
DW	(k/ft) 0.33	0.33
M _{DW}	(k) 282	504
M _{Σ + IM}	(k) 1,504	1,388
M _u (Strength I)	(k) 4,159	5,643
φ _r M _{nc}	(k) 5,646	
f _s DC1	(ksi) 9.9	14.2
f _s DC2	(ksi) 1.5	2.0
f _s DW	(ksi) 3.3	4.4
f _s 1.3(Σ+IM)	(ksi) 20.9	15.8
f _s (Service II)	(ksi) 35.6	36.4
f _s (Total)(Strength I)	(ksi) 45.7	
V _r	(k) 28.4	

* Compact section
** Non-compact section

INTERIOR GIRDER REACTION TABLE		
	Abut.	Pier
R _{DC1}	(k) 37.4	135.1
R _{DC2}	(k) 6.2	20.6
R _{DW}	(k) 13.7	45.8
R _{Σ + IM}	(k) 88.4	162.4
R _{Total}	(k) 145.7	363.9



CAMBER DIAGRAM

TOP OF WEB ELEVATIONS
(For fabrication use only)

Location	℄ Brg. S. Abut.	℄ Splice #1	℄ Brg. Pier 1	℄ Splice #2	℄ Brg. N. Abut.
Girder 1	660.85	661.40	661.61	661.82	662.65
Girder 2	660.99	661.54	661.75	661.97	662.79
Girder 3	661.10	661.65	661.86	662.08	662.91
Girder 4	661.10	661.65	661.86	662.08	662.91
Girder 5	660.99	661.54	661.75	661.97	662.79
Girder 6	660.85	661.40	661.61	661.82	662.65

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

I_s, S_s : Non-composite moment of inertia and section modulus of the steel section used for computing f_s (Total-Strength I, and Service II) due to non-composite dead loads (in⁴ and in³).

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

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

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

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

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

M_{Σ + IM}: Un-factored live load moment plus dynamic load allowance (impact) (kip-ft.).
M_u (Strength I): Factored design moment (kip-ft.).
1.25 (M_{DC1} + M_{DC2}) + 1.5 M_{DW} + 1.75 M_{Σ + IM}

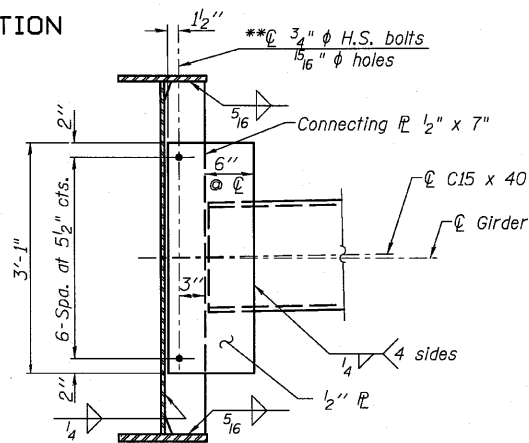
φ_rM_{nc}: Compact composite positive moment capacity computed according to Article 6.10.7.1 (kip-ft.).

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

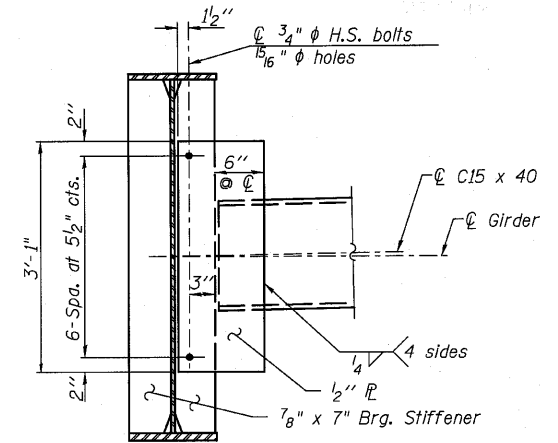
f_s (Service II): Sum of stresses as computed from the moments below (ksi).
M_{DC1} + M_{DC2} + M_{DW} + 1.3 M_{Σ + IM}

f_s (Total)(Strength I): Sum of stresses as computed from the moments below on non-compact section (ksi).
1.25 (M_{DC1} + M_{DC2}) + 1.5 M_{DW} + 1.75 M_{Σ + IM}

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

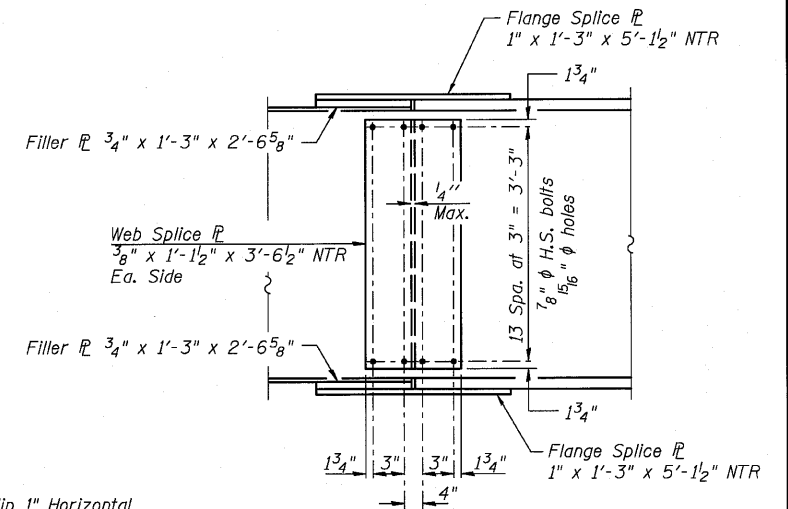


INTERIOR DIAPHRAGM, D
(50-Required)

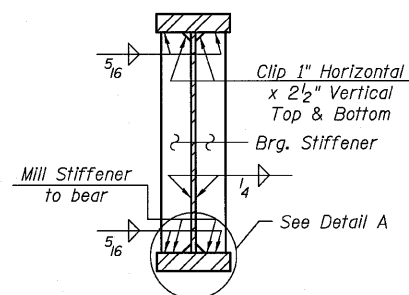


INTERIOR DIAPHRAGM, D1
(5-Required)

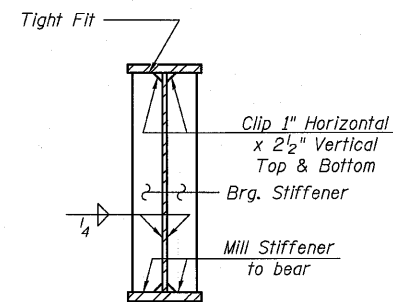
** Use 1 3/16" x 1 7/8" vertical slotted holes in 1/2" connecting ℄ and 1/2" connection ℄ at the west side of Girder 4 only. Provide 5/16" ℄ washers for slotted holes. Bolts for slotted holes shall be finger-tightened prior to the deck pour for Stage II Construction, and then be fully tightened after completion of the deck pour for Stage II Construction.



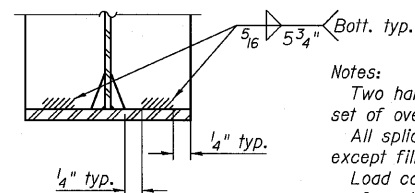
ELEVATION



SECTION AT PIER



SECTION AT ABUTMENT



DETAIL A

Notes:
Two hardened washers required for each set of oversized holes.
All splice plates shall be AASHTO M 270, Grade 50, except fill plates.
Load carrying components designated "NTR" shall conform to the Supplemental Requirements for Notch Toughness, Zone 2.

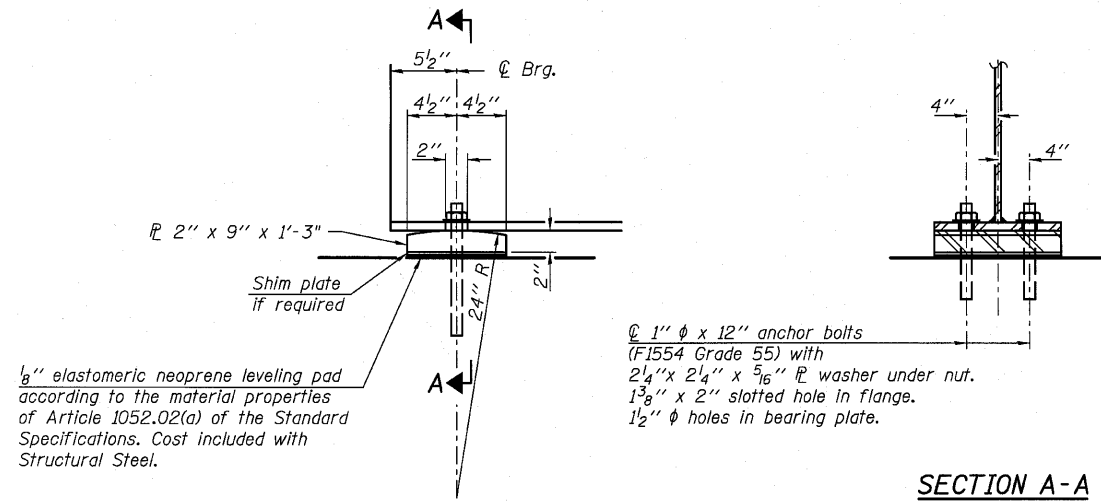
PLAN - TOP & BOTTOM FLANGE

SPLICE DETAIL
(12 required)

STRUCTURAL STEEL DETAILS
STRUCTURE NO. 098-0117

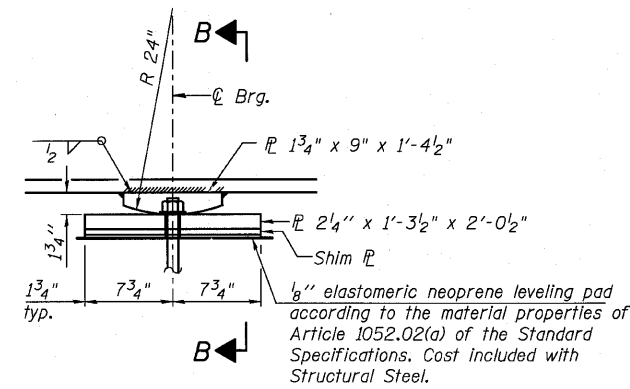
WILLS BURKE KELSEY ASSOCIATES LTD. 116 West Main Street, Suite 201 St. Charles, Illinois 60174 (630) 443-7755	SHEET NO. 16	F.A.P. RTE. 646	SECTION 8BR-1	COUNTY WHITESIDE	TOTAL SHEETS 90	SHEET NO. 50
	26 SHEETS	CONTRACT NO. 84854		ILLINOIS FED. AID PROJECT		

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION



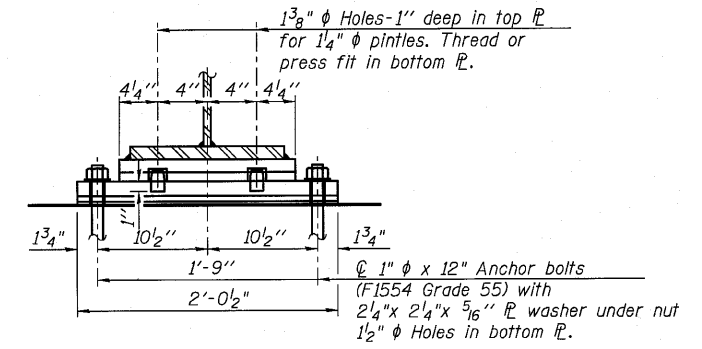
ELEVATION AT ABUTMENT

FIXED BEARING AT INTEGRAL ABUTMENT
(12 Required)

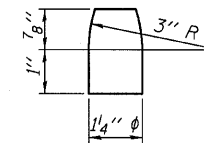


ELEVATION AT PIER

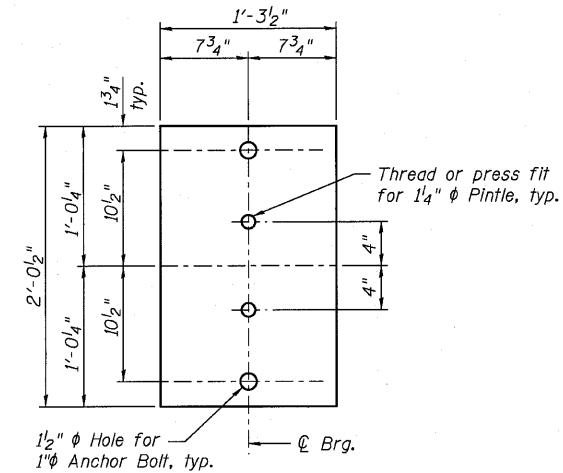
FIXED BEARING AT PIER
(6 Required)



SECTION B-B



PINTLE
(Fy=36 ksi)



BOTTOM BEARING PLATE

Notes:

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

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

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

All bearing plates shall be AASHTO M270, Grade 50.

Two 1/8 in. adjusting shims shall be provided for each bearing 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	36

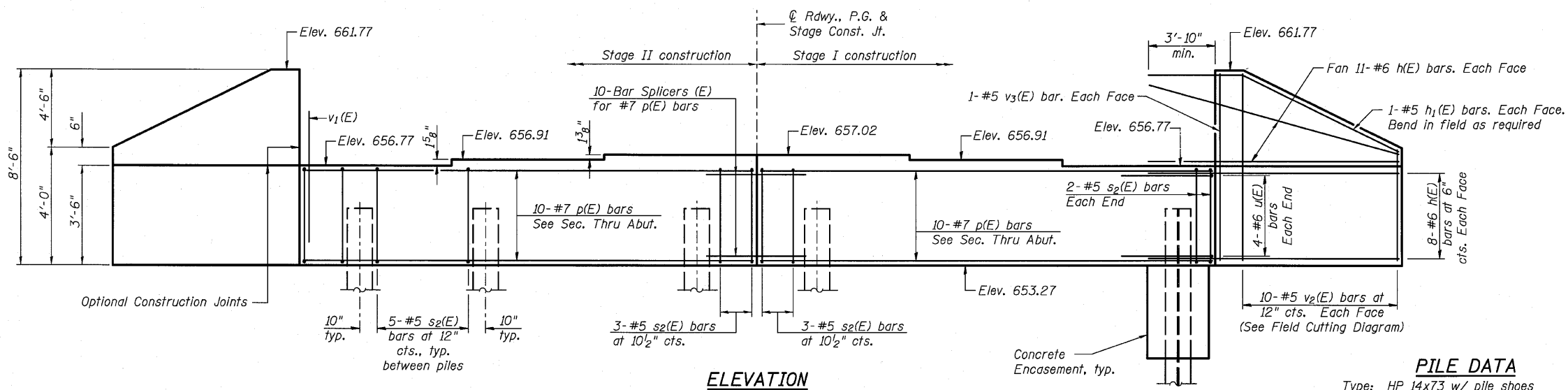
BEARING DETAILS
STRUCTURE NO. 098-0117

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

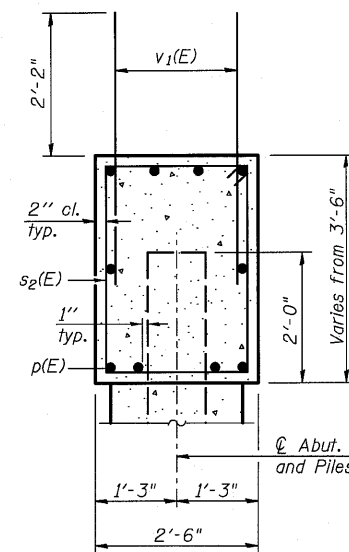
WILLS BURKE KELSEY ASSOCIATES LTD. 116 West Main Street, Suite 201 St. Charles, Illinois 60174 (630) 443-7755	SHEET NO. 17	F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
	26 SHEETS	646	8BR-1	WHITESIDE	90	51
						CONTRACT NO. 84854
ILLINOIS FED. AID PROJECT						

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

Notes:
Pour steps monolithically with cap.
Space reinforcement in cap to miss anchor bolts.



ELEVATION



SEC. THRU ABUT.

PILE DATA

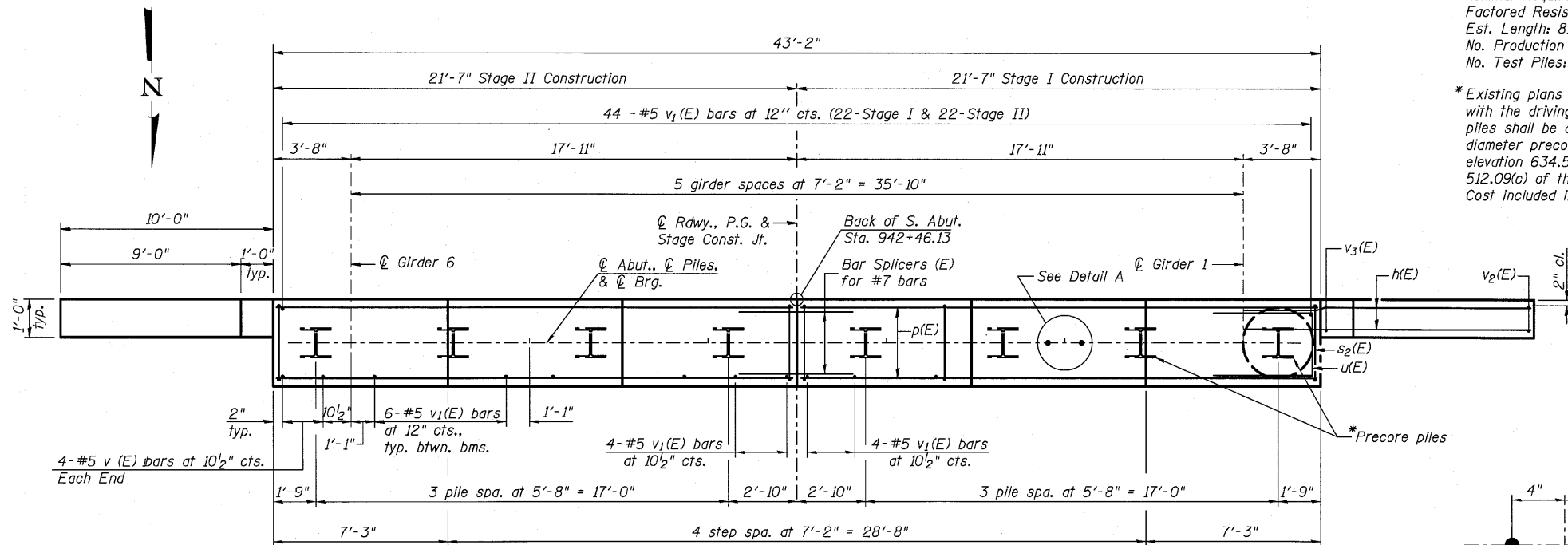
Type: HP 14x73 w/ pile shoes
Nominal Required Bearing: 480 kips
Factored Resistance Available: 240 kips
Est. Length: 81' (88'-Precored Piles)
No. Production Piles: 7
No. Test Piles: 1

* Existing plans indicate the existing footing may interfere with the driving of the two westernmost piles, therefore piles shall be driven through 20-inch diameter precored holes extending to elevation 634.58 according to Article 512.09(c) of the Standard Specifications. Cost included in driving piles.

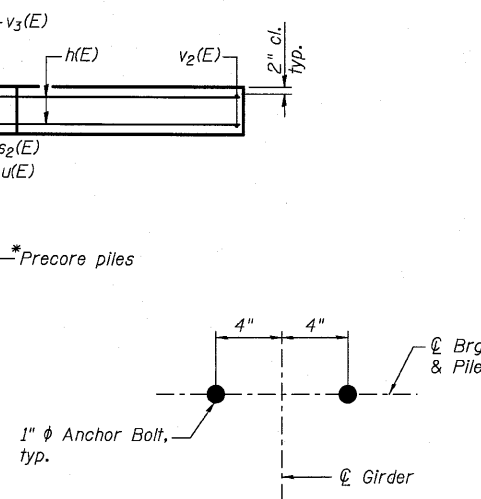
BILL OF MATERIAL

Bar	No.	Size	Length	Shape
h(E)	76	#6	13'-8"	—
h1(E)	4	#5	14'-8"	—
p(E)	20	#7	21'-3"	—
s2(E)	40	#5	11'-7"	□
u(E)	8	#6	8'-1"	—
v1(E)	84	#5	4'-4"	—
v2(E)	20	#5	11'-10"	—
v3(E)	4	#5	8'-2"	—
Structure Excavation		Cu. Yd.	144	
Concrete Structures		Cu. Yd.	10.6	
Reinforcement Bars, Epoxy Coated		Pound	3,730	
Furnishing Steel Piles HP 14x73		Foot	581	
Driving Piles		Foot	581	
Test Pile Steel HP 14x73		Each	1	
Pile Shoes		Each	8	
Concrete Encasement		Cu. Yd.	4.4	

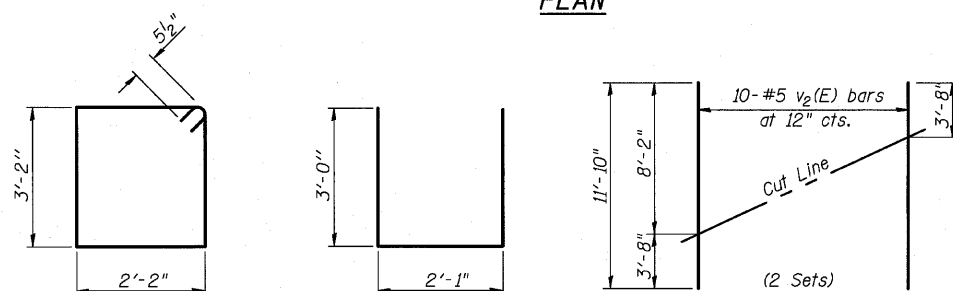
For details of Bar Splicers, see sheet 22 of 26.
For details of piles and Concrete Encasement, see sheet 21 of 26.
For drainage details, see sheet 2 of 26.



PLAN



DETAIL A



BAR s2(E)

BAR u(E)

FIELD CUTTING DIAGRAM

Order v2(E) 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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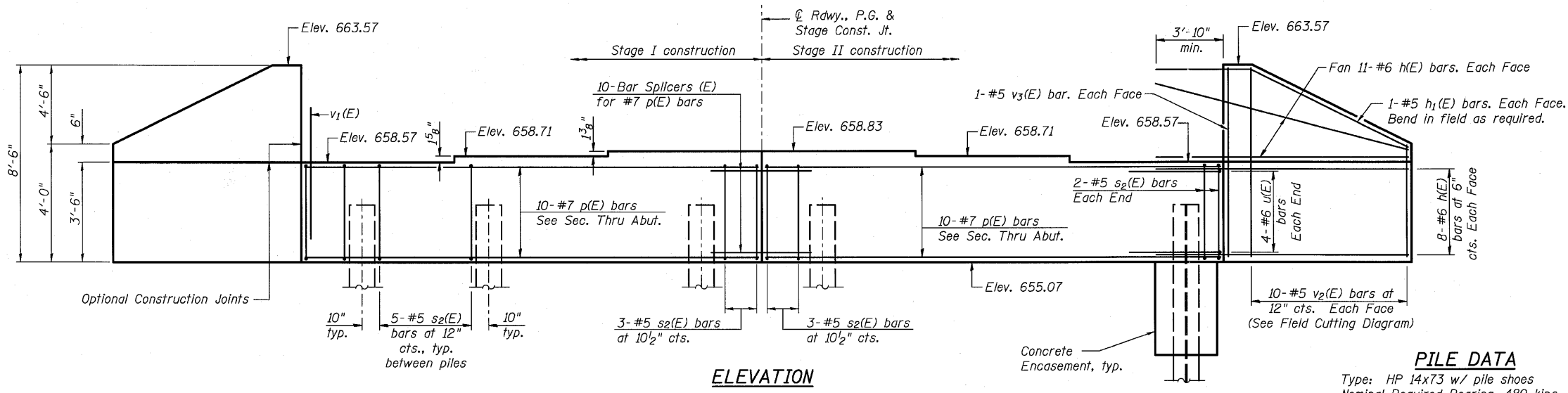
SHEET NO. 18
26 SHEETS

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
646	8BR-1	WHITESIDE	90	52
CONTRACT NO. 84854				
ILLINOIS FED. AID PROJECT				

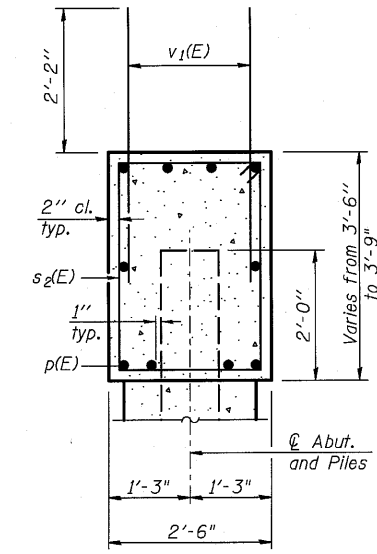
SOUTH ABUTMENT
STRUCTURE NO. 098-0117

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

Notes:
Pour steps monolithically with cap.
Space reinforcement in cap to miss anchor bolts.



ELEVATION



SEC. THRU ABUT.

PILE DATA

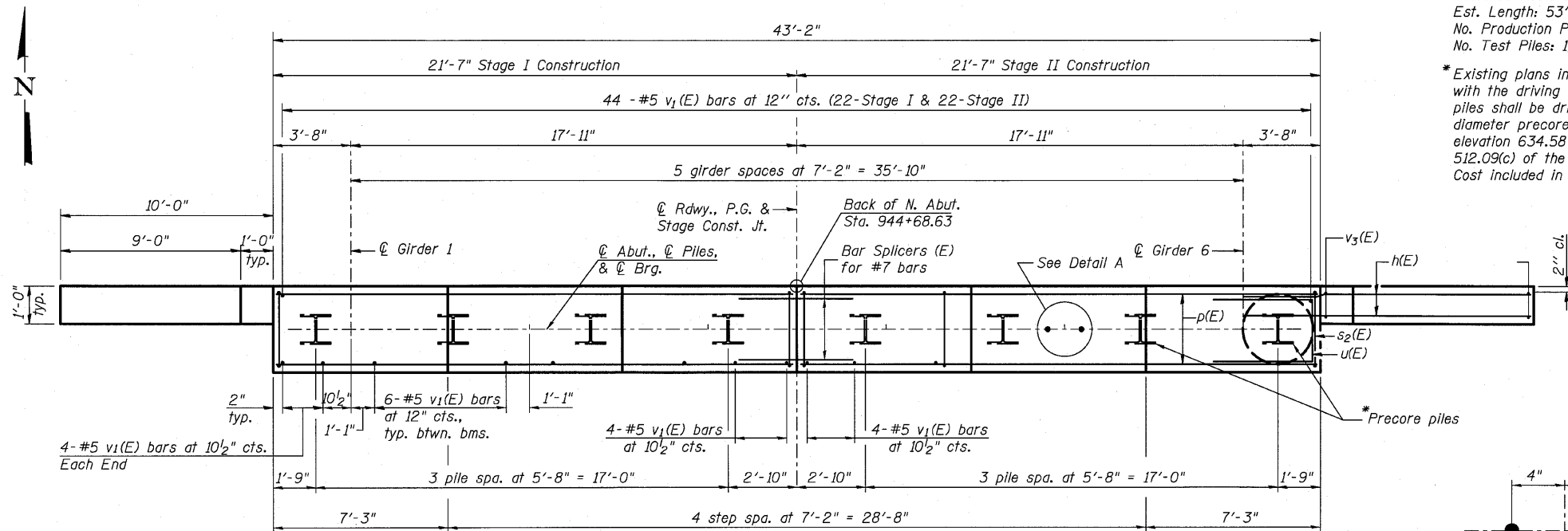
Type: HP 14x73 w/ pile shoes
Nominal Required Bearing: 480 kips
Factored Resistance Available: 240 kips
Est. Length: 53' (90'-Precored Piles)
No. Production Piles: 7
No. Test Piles: 1

* Existing plans indicate the existing footing may interfere with the driving of the two easternmost piles, therefore piles shall be driven through 20-inch diameter precored holes extending to elevation 634.58 according to Article 512.09(c) of the Standard Specifications. Cost included in driving piles.

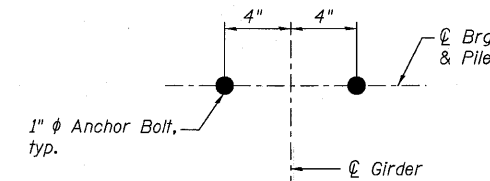
BILL OF MATERIAL

Bar	No.	Size	Length	Shape
h(E)	76	#6	13'-8"	—
h1(E)	4	#5	14'-8"	—
p(E)	20	#7	21'-3"	—
s2(E)	40	#5	11'-7"	□
u(E)	8	#6	8'-1"	—
v1(E)	84	#5	4'-4"	—
v2(E)	20	#5	11'-10"	—
v3(E)	4	#5	8'-2"	—
Structure Excavation		Cu. Yd.	144	
Concrete Structures		Cu. Yd.	10.6	
Reinforcement Bars, Epoxy Coated		Pound	3,730	
Furnishing Steel Piles HP 14x73		Foot	445	
Driving Piles		Foot	445	
Test Pile Steel HP 14x73		Each	1	
Pile Shoes		Each	8	
Concrete Encasement		Cu. Yd.	4.4	

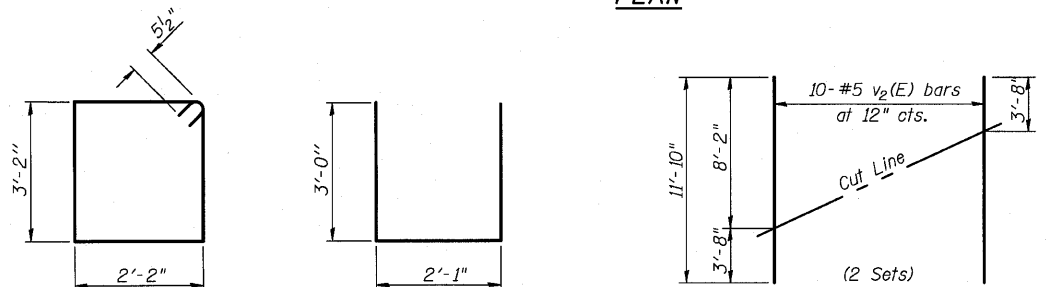
For details of Bar Splicers, see sheet 22 of 26.
For details of piles and Concrete Encasement, see sheet 21 of 26.
For drainage details, see sheet 2 of 26.



PLAN



DETAIL A



FIELD CUTTING DIAGRAM

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

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

NORTH ABUTMENT
STRUCTURE NO. 098-0117

 WILLS BURKE KELSEY ASSOCIATES LTD. 116 West Main Street, Suite 201 St. Charles, Illinois 60174 (630) 443-7755	SHEET NO. 19	F.A.P. RTE. 646	SECTION 8BR-1	COUNTY WHITESIDE	TOTAL SHEETS 90	SHEET NO. 53
	26 SHEETS	CONTRACT NO. 84854			ILLINOIS FED. AID PROJECT	

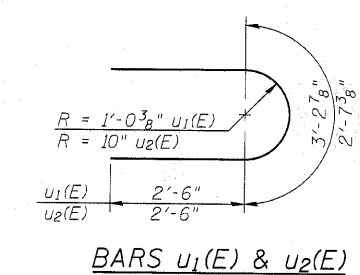
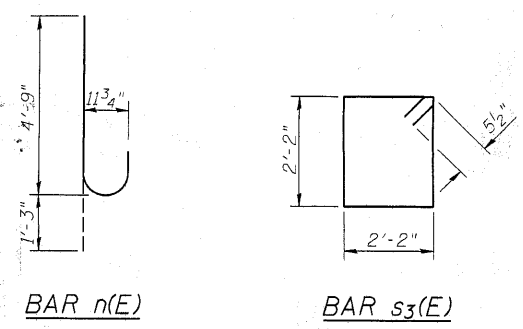
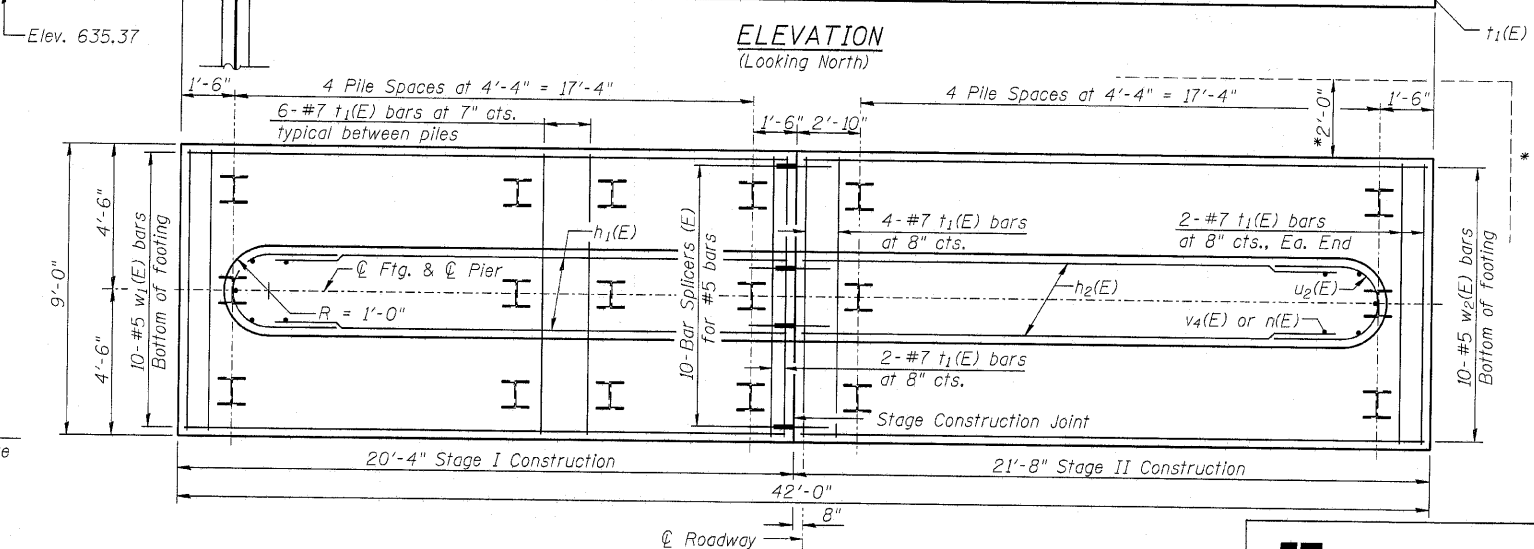
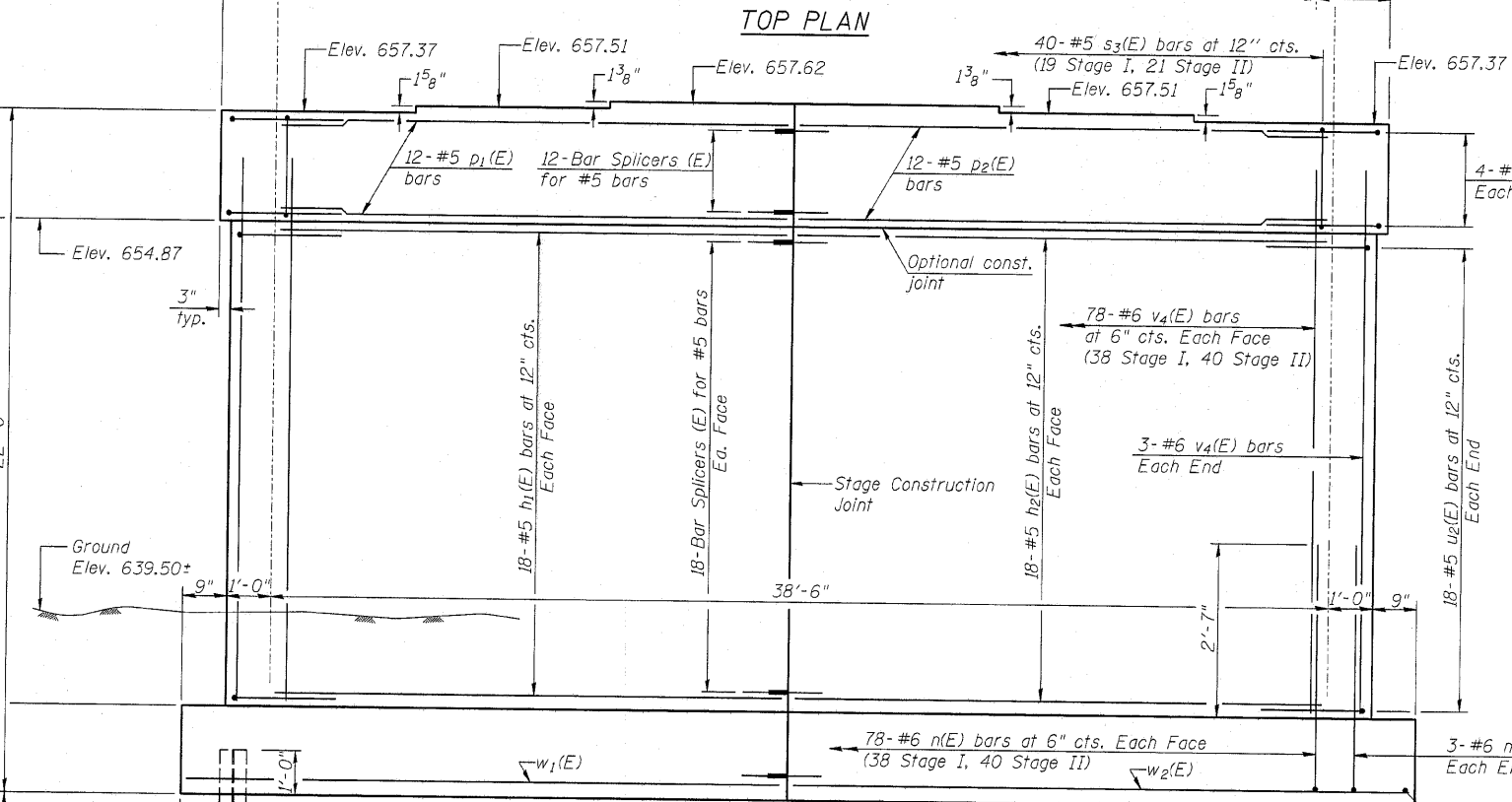
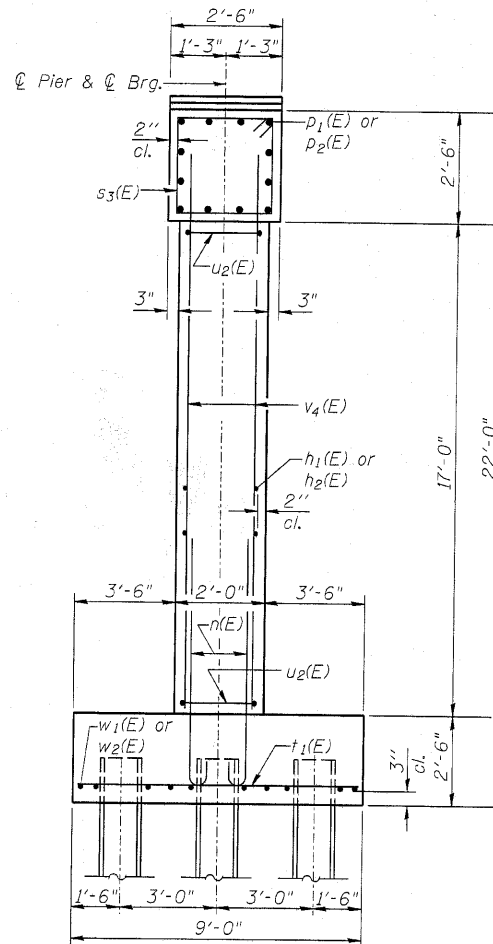
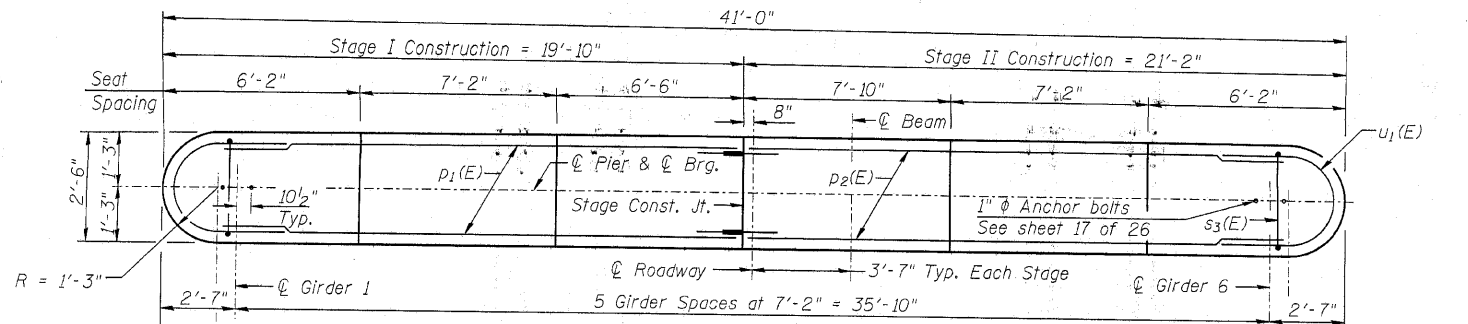
FILE NAME: P:\CIBEREL\WEST_Proj\meta\2009\1241020_109_IL48\Structure\Draw\0980117-84854-013-NAbut.dgn

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

Notes:
Space reinforcement in cap to miss anchor bolts.
Four steps monolithically with cap.
For details of piles, see sheet 21 of 26.

PILE DATA

Type: Steel HP 12x53 with Pile Shoes
Nominal Required Bearing: 338 kips
Factored Resistance Available: 140 kips
Est. Length: 32'
No. Production Piles: 29
No. Test Piles: 1

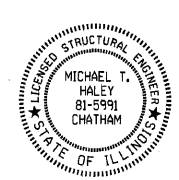


BILL OF MATERIAL

Bar	No.	Size	Length	Shape
h1(E)	36	#5	18'-5"	—
h2(E)	36	#5	19'-9"	—
n(E)	162	#6	6'-0"	U
p1(E)	12	#5	18'-5"	—
p2(E)	12	#5	19'-9"	—
s3(E)	40	#5	9'-7"	□
t1(E)	58	#7	8'-8"	—
u1(E)	8	#5	8'-3"	U
u2(E)	36	#5	7'-8"	U
v4(E)	162	#6	19'-0"	—
w1(E)	10	#5	20'-0"	—
w2(E)	10	#5	21'-4"	—
Cofferdam Excavation	Cu. Yd.		158	
Concrete Structures	Cu. Yd.		95.4	
Reinforcement Bars, Epoxy Coated	Pound		10210	
Furnishing Steel Piles HP 12x53	Foot		928	
Driving Piles	Foot		928	
Test Pile Steel HP 12x53	Each		1	
Pile Shoes	Each		30	
Cofferdams, Location 1	Each		1	
Seal Coat Concrete	Cu. Yd.		66.4	

PIER DETAILS
STRUCTURE NO. 098-0117

END VIEW



Michael T. Haley
Licensed Structural Engineer
State of Illinois No. 81-5991
Expires 11/30/2010
Date: 9-17-10

LE LIN ENGINEERING, LTD.
Consulting Engineers
Chatham, Illinois

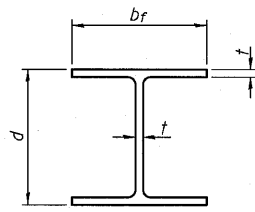
Designed By: ADB
Checked By: MTH
Date: 04/2010
File: 098-0117.dgn

SHEET NO. 20
26 SHEETS

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
646	8BR-1	WHITESIDE	90	54
CONTRACT NO. 84854				
ILLINOIS FED. AID PROJECT				

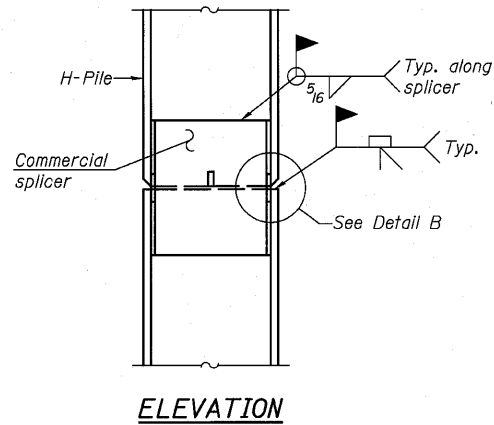
Note:
See sheet 2 of 26 for Seal Coat details.

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

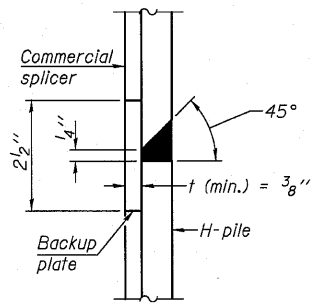


STEEL PILE TABLE

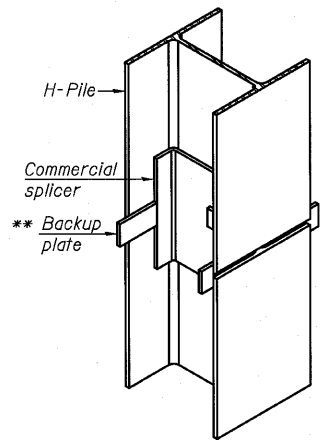
Designation	Depth d	Flange width br	Web and Flange thickness t	Encasement diameter A
HP 14x117	14 1/4"	14 7/8"	1 3/16"	30"
x102	14"	14 3/4"	1/16"	30"
x89	13 7/8"	14 3/4"	5/8"	30"
x73	13 5/8"	14 5/8"	1/2"	30"
HP 12x84	12 1/4"	12 1/4"	1/16"	24"
x74	12 1/8"	12 1/4"	5/8"	24"
x63	12"	12 1/8"	1/2"	24"
x53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



ELEVATION

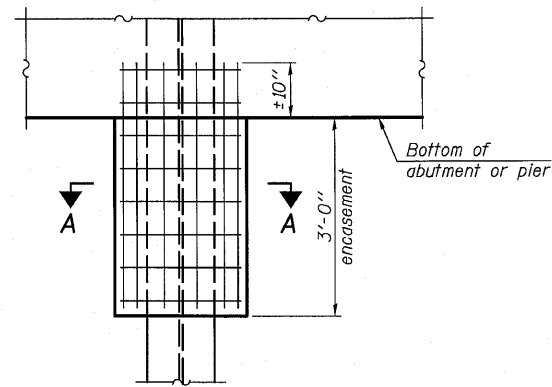


DETAIL "B"



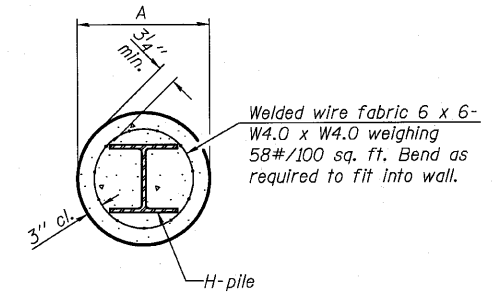
ISOMETRIC VIEW

WELDED COMMERCIAL SPLICE



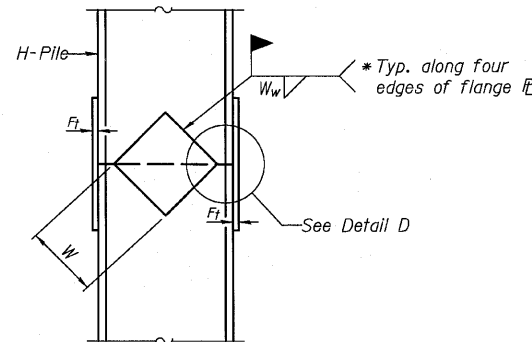
ELEVATION

PILE ENCASEMENT

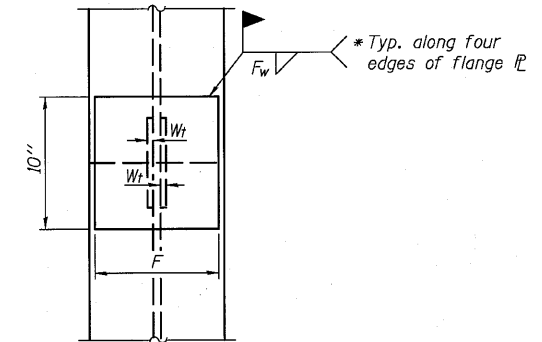


SECTION A-A

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

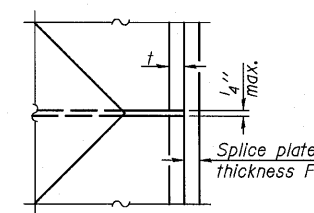


ELEVATION



END VIEW

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

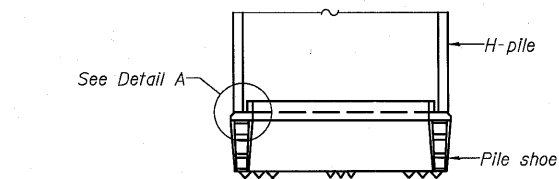


DETAIL D

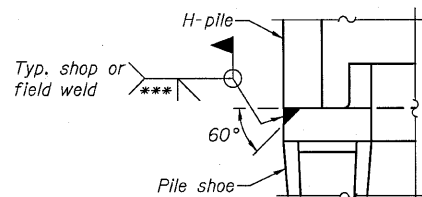
WELDED PLATE FIELD SPLICE

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

HP PILE DETAILS
STRUCTURE NO. 098-0117

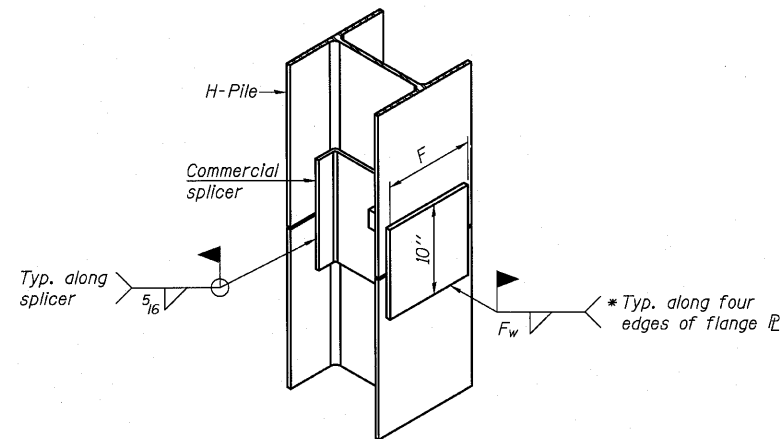


ELEVATION



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.).

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

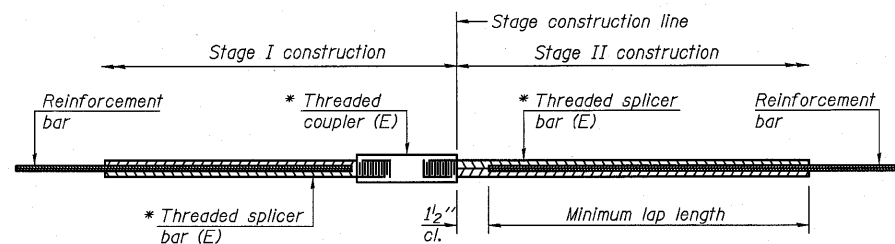
F-HP 11-1-09

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

SHEET NO. 21
26 SHEETS

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
646	8BR-1	WHITESIDE	90	55
CONTRACT NO. 84854				
ILLINOIS FED. AID PROJECT				

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION



STANDARD BAR SPLICER ASSEMBLY

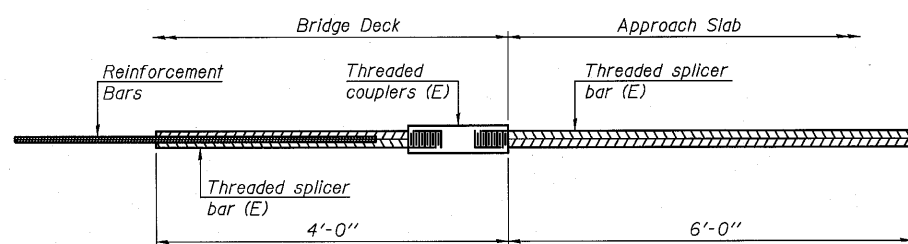
Bar size to be spliced	Minimum Lap Lengths				
	Table 1	Table 2	Table 3	Table 4	Table 5
3, 4	1'-5"	1'-11"	2'-1"	2'-4"	---
5	1'-9"	2'-5"	2'-7"	2'-11"	---
6	2'-1"	2'-11"	3'-1"	3'-6"	3'-4"
7	2'-9"	3'-10"	4'-2"	4'-8"	---
8	3'-8"	5'-1"	5'-5"	6'-2"	---
9	4'-7"	6'-5"	6'-10"	7'-9"	---

- 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
- Table 5: Epoxy bar, Diaphragm bar lap

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

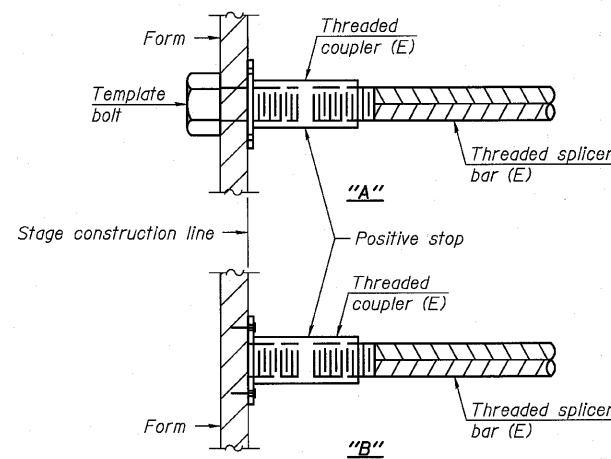
* Epoxy not required on Bar Splicer Assembly components used in conjunction with black bars.

Location	Bar size	No. assemblies required	Table for minimum lap length
Deck	#5	744	Table 3
Diaphragms	#6	16	Table 5
Abutments	#7	20	Table 3
Pier	#5	58	Table 3
Approach Slabs	#4	50	Table 4
Approach Slabs	#5	92	Table 3
Approach Footings	#5	80	Table 3



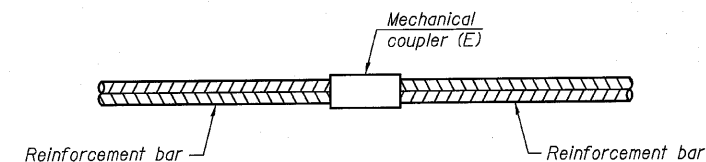
BAR SPLICER ASSEMBLY FOR #5 BAR ON INTEGRAL OR SEMI-INTEGRAL ABUTMENTS

No. required = 92



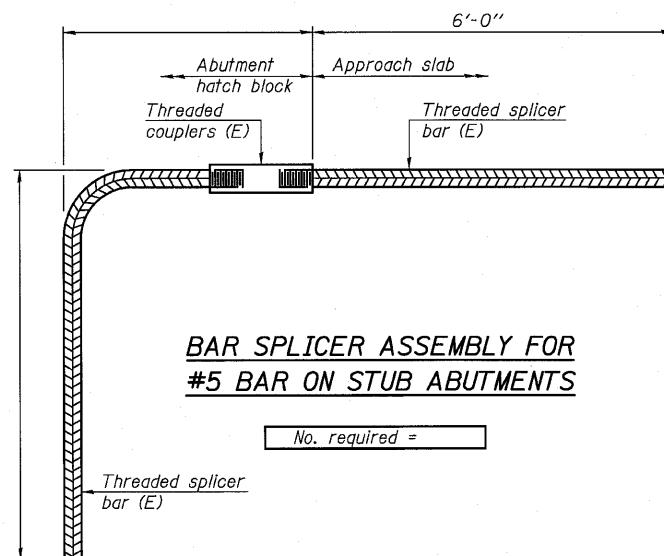
INSTALLATION AND SETTING METHODS

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



STANDARD MECHANICAL SPLICER

Location	Bar size	No. assemblies required



BAR SPLICER ASSEMBLY FOR #5 BAR ON STUB ABUTMENTS

No. required =

NOTES

- 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. 098-0117**

DESIGNED -	AEU/MH
CHECKED -	DLS
DRAWN -	AWH
CHECKED -	AEU

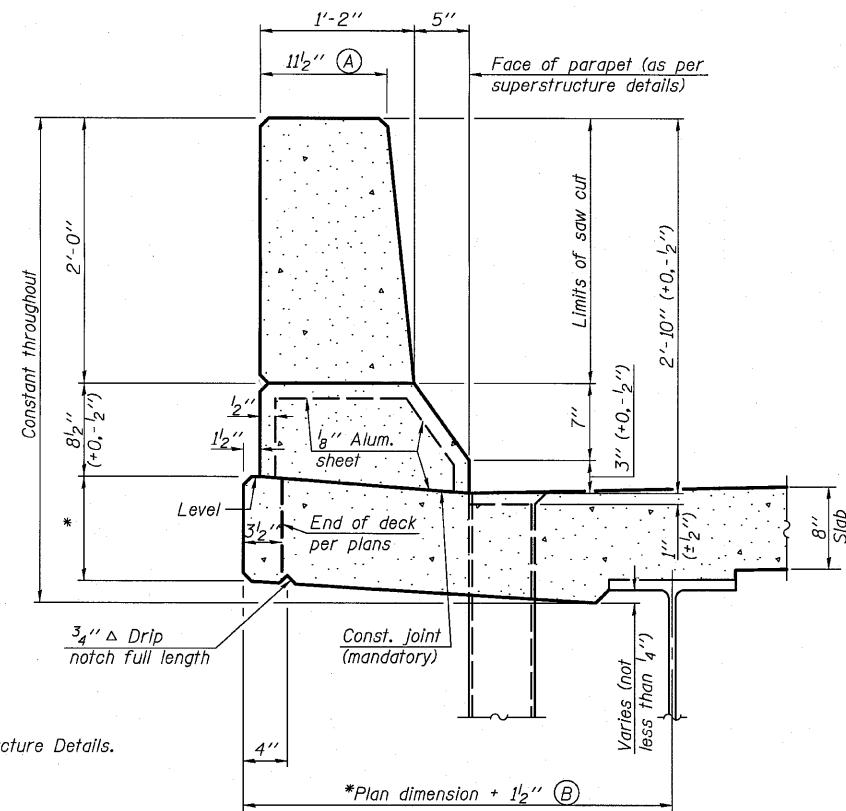
BSD-1 11-1-09

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St. Charles, Illinois 60174
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SHEET NO. 22
26 SHEETS

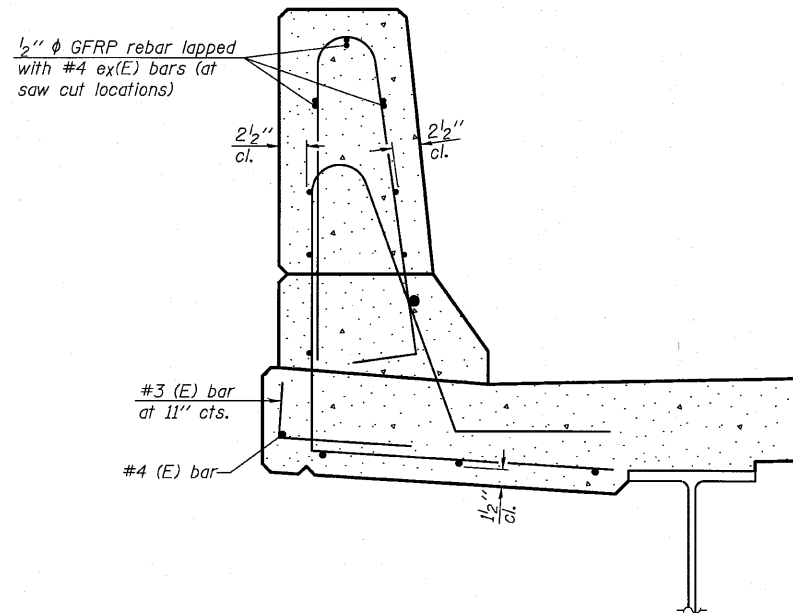
F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
646	8BR-1	WHITESIDE	90	56
CONTRACT NO. 84854				
ILLINOIS FED. AID PROJECT				

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION



SECTION
(Showing dimensions)

* See Superstructure Details.



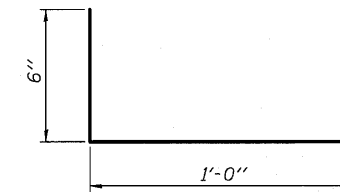
SECTION
(Showing reinforcement clearances for slip forming and additional reinforcement bars)

GENERAL NOTES

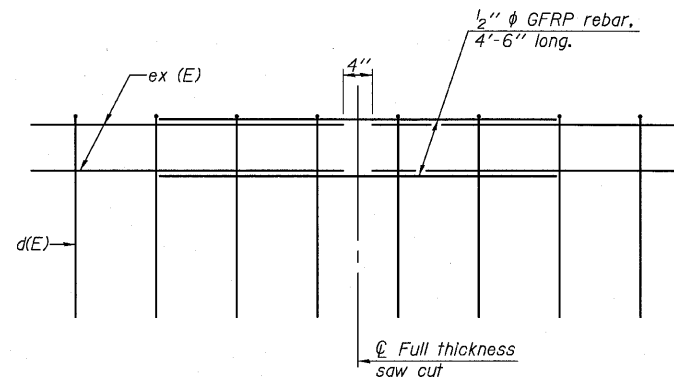
All dimensions shall remain the same as shown on superstructure details, except dimensions A and B which are to be revised as shown to provide additional clearance. Additional concrete needed to revise dimension A and B = 0.0165 cu. yds./ft. of parapet.

Place aluminum sheet in curb portion at and near piers. Full thickness saw cut at all joint locations in lieu of cork joint filler.

Steel superstructure shown. Other superstructure types similar.



#3 (E) BAR



GFRP REBAR STIFFENING DETAIL

(Place as shown in parapet section at each parapet joint location.)

**CONCRETE PARAPET
SLIPFORMING OPTION
STRUCTURE NO. 098-0117**

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

SFP-34

11-1-09

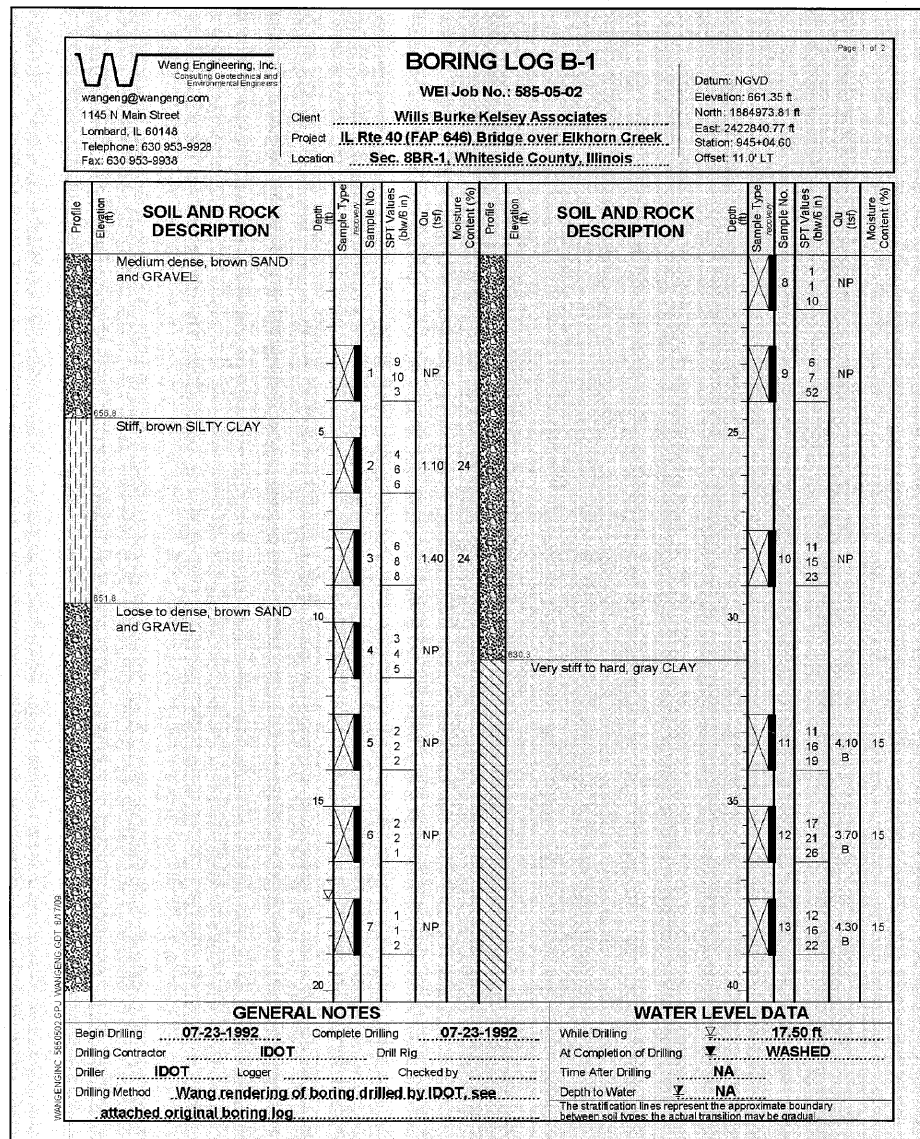
WILLS BURKE KELSEY ASSOCIATES LTD.
116 West Main Street, Suite 201
St. Charles, Illinois 60174
(630) 443-7755

SHEET NO. 23
26 SHEETS

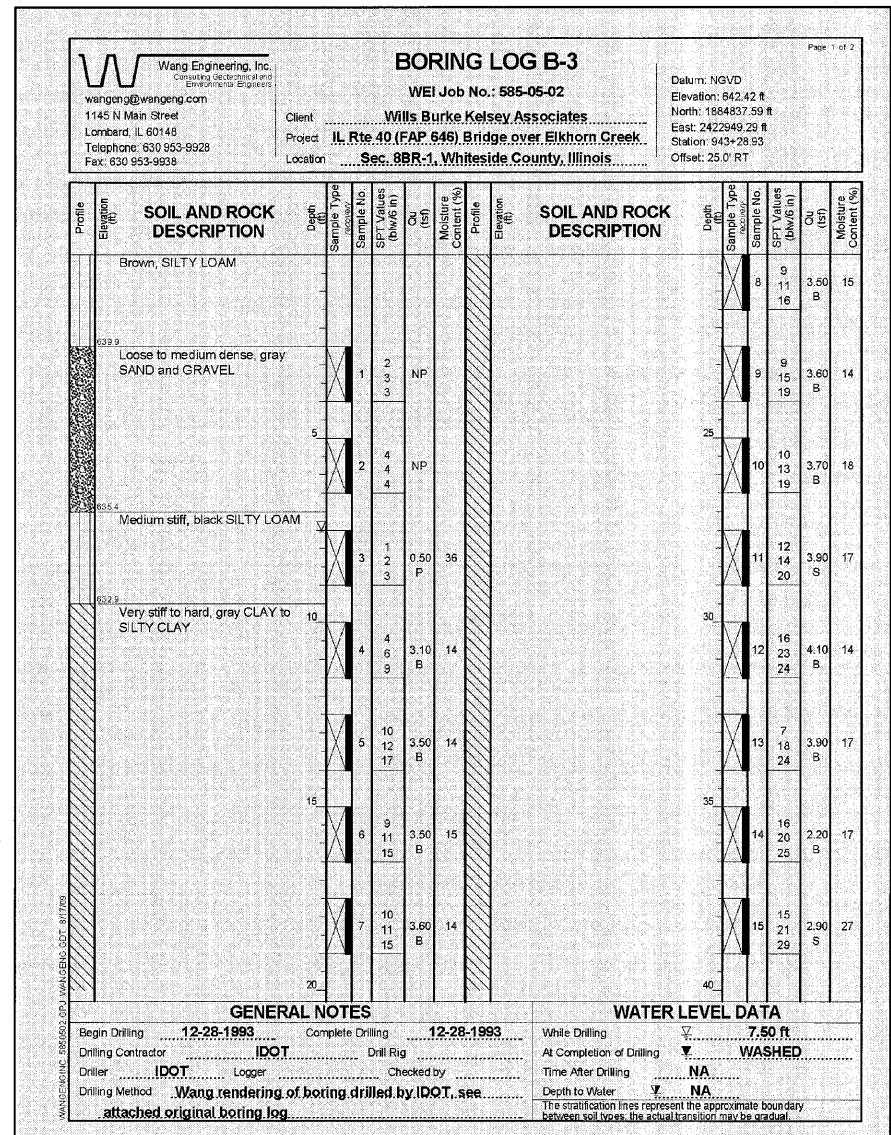
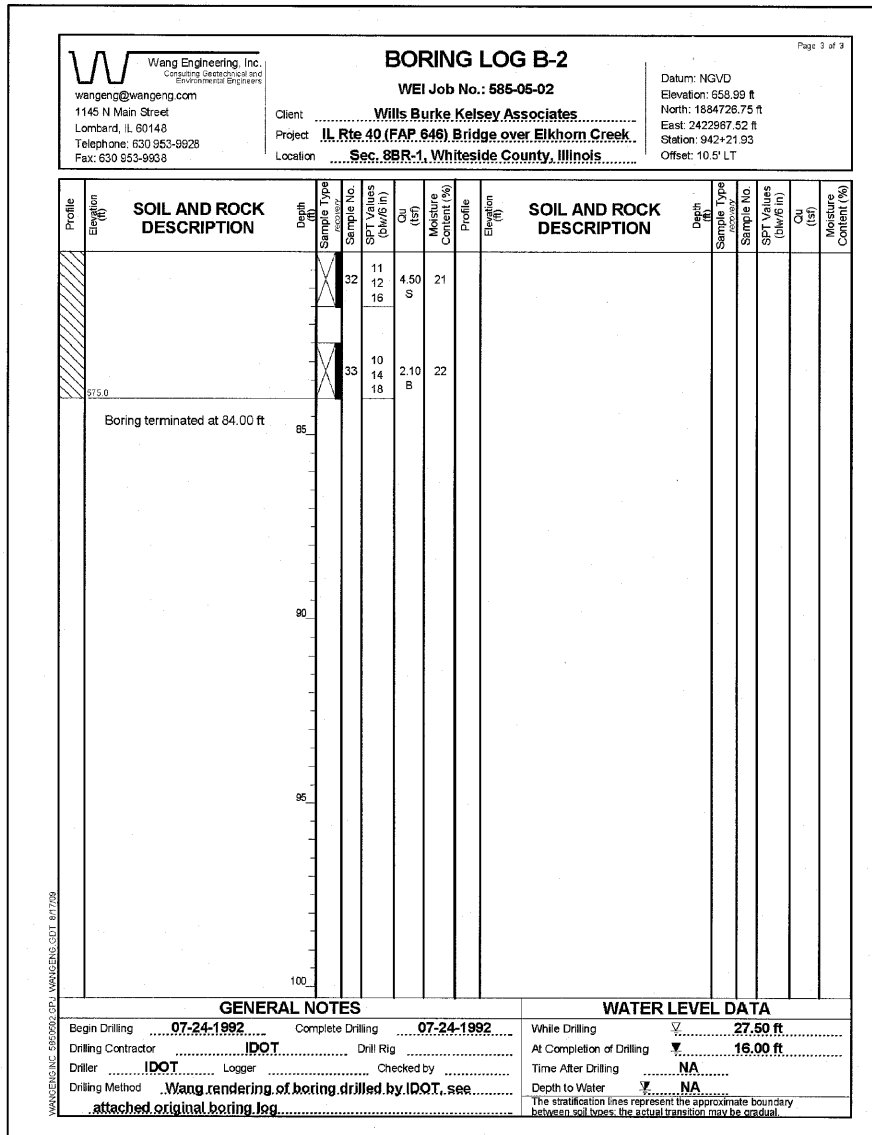
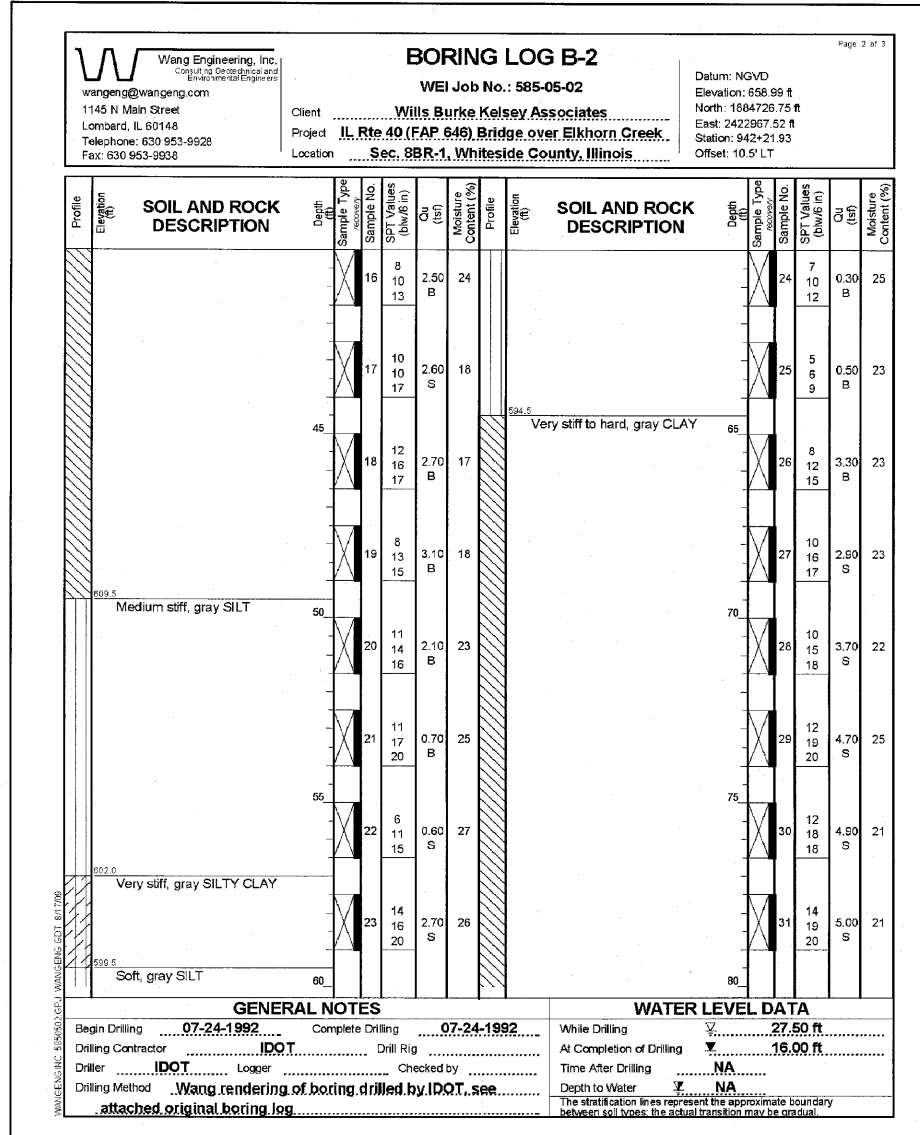
F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
646	8BR-1	WHITESIDE	90	57
CONTRACT NO. 84854				

ILLINOIS FED. AID PROJECT

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION




STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION



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

SOIL BORING LOGS
STRUCTURE NO. 098-0117

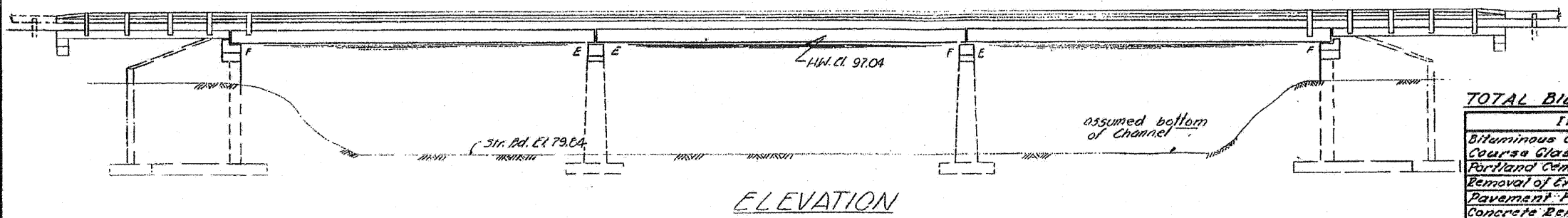
 <p>WILLS BURKE KELSEY ASSOCIATES LTD. 116 West Main Street, Suite 201 St. Charles, Illinois 60174 (630) 443-7755</p>	SHEET NO. 25	F.A.P. RTE. 646	SECTION 8BR-1	COUNTY WHITESIDE	TOTAL SHEETS 90	SHEET NO. 59
	26 SHEETS	CONTRACT NO. 84854			ILLINOIS FED. AID PROJECT	

FILE NAME: P:\CBBEL\WEST Projects\2009\12\10\09_11_43\Structural\Drawings\098-0117-Sub\Boring\02.dwg PLOT CREATION DATE = 6/2/2010

Existing Structure built as S.D.I. Rt. 40, Sec. 8B in 1923 @ Sta. 1375+23.67. 3 span R.C. Deck Girder 62'-5" each span, 22' Rdwy., R.C. Piers and Closed Abuts. Deck to be removed by Contractor utilizing slope construction as shown and providing temporary guardrail. 3.W. Top of Existing South wingwall. Elev. 100.00

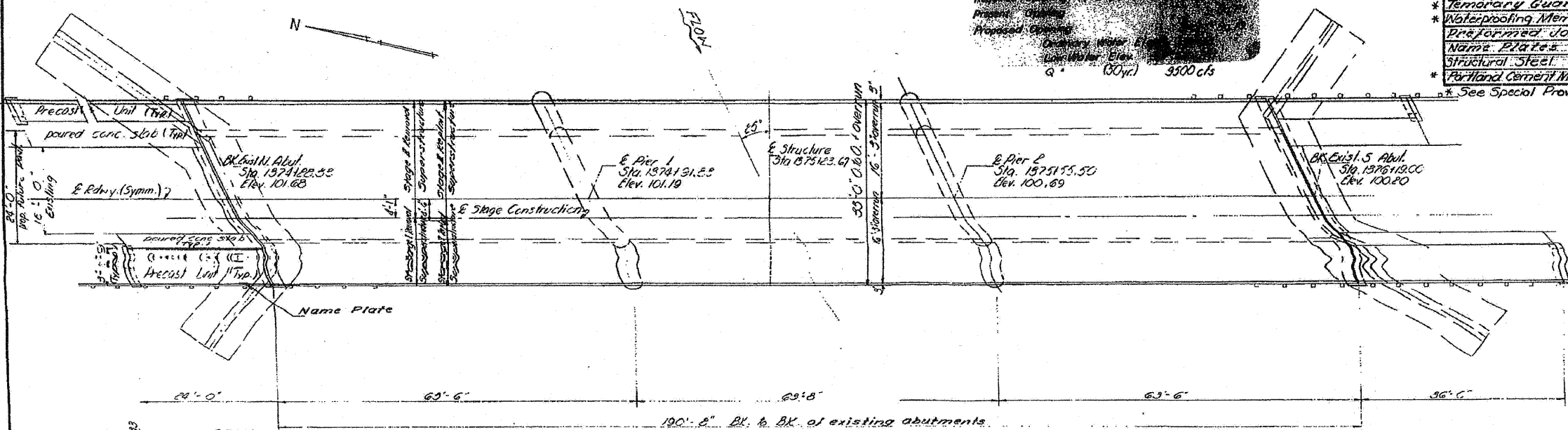
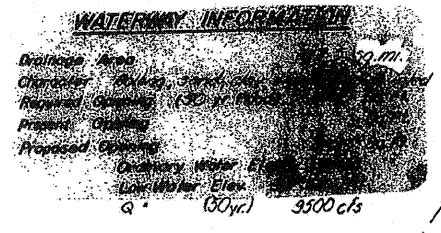
STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

ROUTE NO.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
PA 40	BBR	WHITESIDE	11	3
SHEET NO. 1 9 SHEETS				



TOTAL BILL OF MATERIAL

Item	Unit	Super	Sub	Total
Bituminous Concrete Surface Course Class 1	Tons	80		80
Portland Cem. Conc. Pav't (10')	Sq. Yds	50		50
Removal of Existing Superstructure	Each			1
Pavement Fabric	Sq. Yds	50		50
Concrete Removal	Cu. Yds		21	21
Expansion Bolts 3/4" dia	Ea.	76	156	232
Class X Concrete	Cu. Yds	5.1	47.9	53.0
Precast Concrete Bridge Slab	Sq. Ft.	450		450
Precast Prestressed Concrete Deck Beams (C7)	Sq. Ft.	6278		6278
Steel Railing Type IV	Lin. Ft.	502		502
Reinforcement Bars	Lbs	470	6560	7030
Pavement Removal - R.C.C. Replacement Type C (10')	Sq. Yds	9		9
* Temporary Guardrail	Lin. Ft.	190		190
* Waterproofing Membrane System	Sq. Yds	706		706
* Prefabricated Joint Seals (A)	Lin. Ft.	73		73
Name Plates	Ea.	1		1
Structural Steel	Lbs	7100		7100
* Portland Cement Mortar Furring Course	Lin. Ft.	1903		1903



GENERAL NOTES

All reinforcement bars shall be lapped 24 dia unless otherwise shown. It shall be the responsibility of the Contractor to verify all dimensions and conditions existing in the field prior to construction and ordering materials.

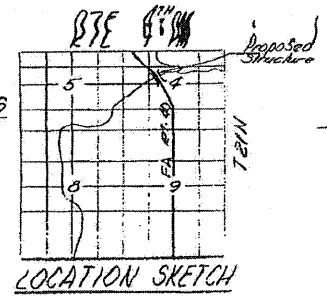
Limits of Waterproofing Membrane System shall be back to back of new abutments and out to end of deck beams. Expansion bolts shall consist of self-drilling expansion anchors and 1/2" x 12" hooked bolts.

All Structural steel shall be shop painted with two coats of basic lead silico chromate paint.

Expansion guards which are not cast in the precast unit shall be fabricated and erected in accordance with Article 503.07 (c) of the Standard Specifications and are included in quantity of structural steel.

The top surface of the beams shall be finished in accordance with Article 505.06 of the Standard Specifications except that the surface shall not be roughened by sandblasting.

The finished surface shall be free of depressions or high spots with sharp corners.



GENERAL PLAN & ELEVATION
FA RT. 40 OVER ELKHORN CREEK
FA RT. 40 SEC. 8BR
WHITESIDE COUNTY
STATION 1375+23.67

PROFILE FA RT. 40 STRUCTURE

DESIGNED	Charles P. [Signature]	EXAMINED	[Signature]
CHECKED	Shen, T. [Signature]	PASSED	[Signature]
DRAWN	[Signature]	APPROVED	[Signature]
CHECKED	CG		
	ST		

DIRECTOR OF HIGHWAYS

STATION 1375+23.67

STATE OF ILLINOIS
FA PROJECT R.F. 109(9)
LOADING HS-20

NAME PLATE
(See Sid. 2113)

PRECAST PRESTRESSED UNITS

$f'_c = 5000$ psi
 $f'_t = 4000$ psi
 $f'_s = 270,000$ psi
 $f'_s = 188,700$ psi

FIELD UNITS

$f'_c = 1400$ psi Super
 $f'_c = 1000$ psi Sub
 $V_c = 75$ psi Footing
 $f'_s = 20,000$ psi Reinf.
 $n = 8$

PRECAST UNITS

$f'_c = 4500$ psi
 $f'_c = 1000$ psi
 $f'_s = 20,000$ psi
 $n = 8$

NEW CONSTR. LOADING HS 20-44

FILE NAME = P:\CBBEL\WEST Projects\2207N\24102_W05_IL48\Civil\Open\Shen\BBR\854-att-mac.dgn

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

USER NAME = #USER#	DESIGNED -	REVISED -
PLOT SCALE =	DRAWN -	REVISED -
PLOT DATE = 8/2/2010	CHECKED -	REVISED -
	DATE - 8/6/10	REVISED -

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

EXISTING STRUCTURE PLANS
FOR REFERENCE ONLY

SCALE: SHEET NO. 61 OF 90 SHEETS STA. TO STA.

F.A.P. R.T.E.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
646	BBR-1	WHITESIDE	90	61
CONTRACT NO. 84854				

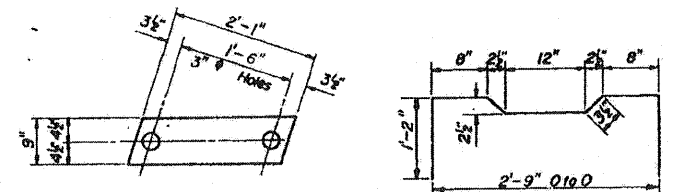
EXISTING STRUCTURE PLANS - FOR REFERENCE ONLY

STATE OF ILLINOIS

DIVISION OF HIGHWAYS

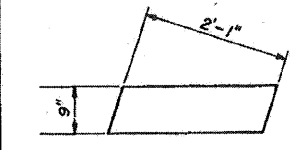
ROUTE NO.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
646	BBR-1	WHITESIDE	90	62

SHEET NO. 2
9 SHEETS

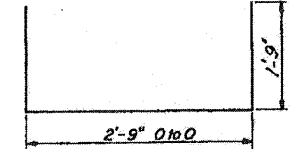


FABRIC BEARING PAD

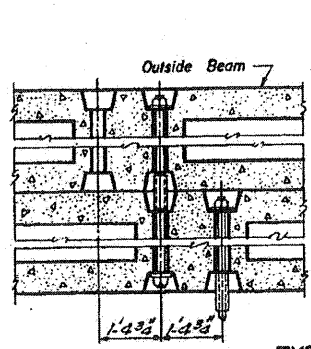
A₁ BAR



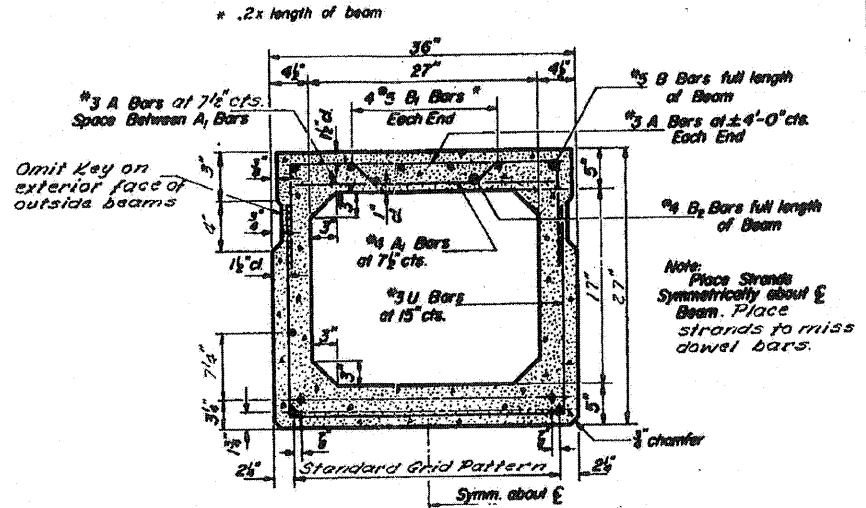
GRAPHITED ASBESTOS BEARING PAD



U & U BAR

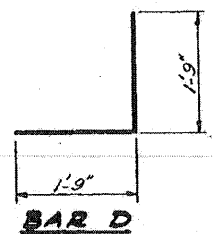


TYPICAL TRANSVERSE TIE ASSEMBLY

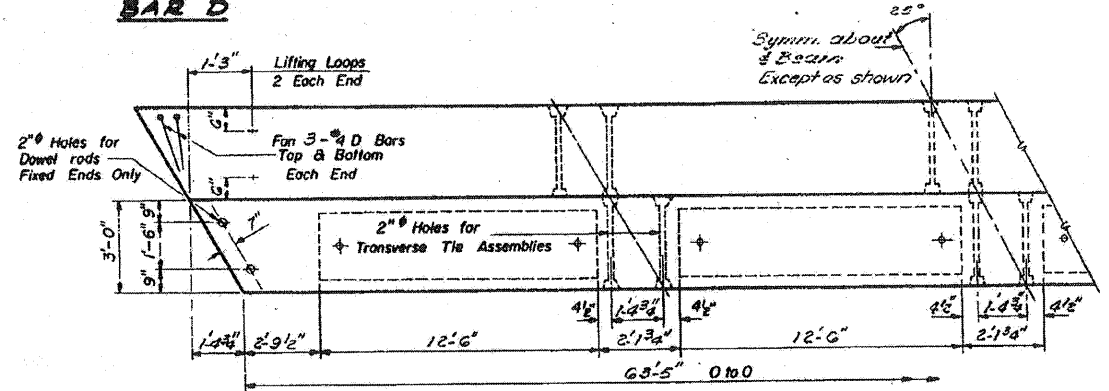


TYPICAL SECTION

21 - 7/16" Strands Each Strand Stressed to 21,700 lbs.
5 - Strands 1 1/2" up 10 - Strands 3/4" up 2 - Strands 10/16" up

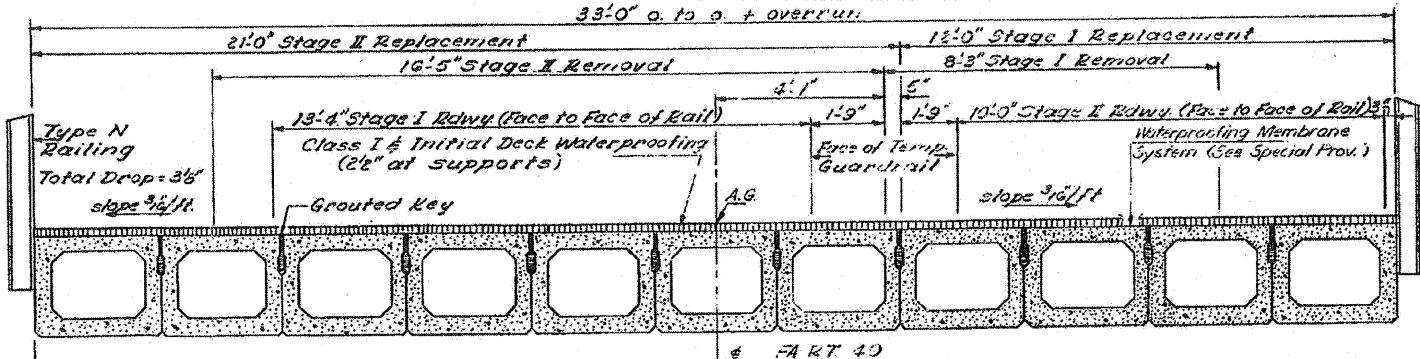


BAR D



PLAN

See Exp. End Detail Sheet #3



CROSS SECTION (Looking South)

BAR LIST

Bar	No	Size	Length	Shops
0	12	#5	21'6"	
0	12	#5	23'2"	

GENERAL NOTES

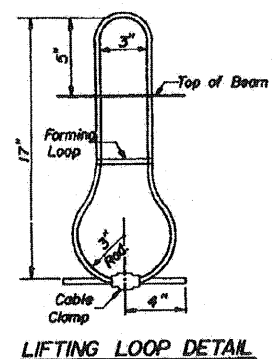
Prestressing steel shall be non-galvanized high strength, stress-relieved 7-wire strand, Grade 270. The nominal diameter shall be 7/16" and the nominal cross-sectional area shall be 0.115 sq. in. Lifting loops shall be 2" diameter 6x25 class wire rope with fiber core and shall have a minimum ultimate tensile strength of 5,500 lbs. The 1" rods in the transverse tie assembly shall be tightened to a snug fit and the threads set. Pockets that receive transverse tie bar on outside beam shall be filled with grout after transverse tie assembly is in place. Longitudinal shear keys shall be packed with a very dry mix of 2-1 sand and P.C. mortar. After beams have been erected, holes for the dowel anchors shall be drilled into the sub-structure and the anchor dowels shall be grouted in place. Transverse tie rods shall be AASHTO M227, Grade 70-80. Dowel rods shall be AASHTO M227 or AASHTO M31. After fabrication the transverse tie assemblies (tie rods, nuts, washers and sleeves) shall be hot-dipped galvanized in accordance with AASHTO Designation M232. Cost of reinforcement and accessories cast into the beam, of bearing pads, of armor angles, and of grouting longitudinal shear keys is included in unit price bid for "Precast Prestressed Concrete Deck Beams."

Note: See sheet #6 for location of railing inserts on outside beams.

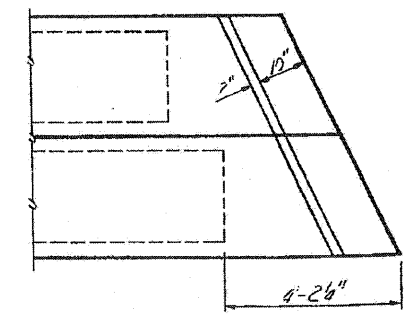
BILL OF MATERIAL

Item	Unit	Total
Precast Prestressed Conc. Deck Beams (27)	Sq. Ft.	6276
Removal of Existing Superstructure	Each	1
Class X Concrete	Cu. Yd.	33
Reinforcement Bars	Pound	470
Structural Steel	Pound	7100

SUPERSTRUCTURE
PART 40 - SEC. 8-22
WHITESIDE COUNTY
STATION 1815+33.61



LIFTING LOOP DETAIL



EXPANSION END OF BEAMS
(Expansion ends at Piers 1 & 2, also the same for fixed end at Pier 2)
See Detail "A" Sht. #3.

DESIGNED	Chas. J. Ober	EXAMINED	APR 9 1971
CHECKED	Shen, T. A. F. A.	PASSED	
DRAWN	J. Kessler	APPROVED	
CHECKED	ST		

PD-3-R 11-19-65 Rev. 5-20-68

FILE NAME = F:\CBBEL WEST Projects\2007\1241802_M09_IL48\Civil\Uprn\Shet\0284854-ght-mms2.dgn

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

USER NAME = @USER@	DESIGNED -	REVISED -
PLOT SCALE =	DRAWN -	REVISED -
PLOT DATE = 8/2/2010	CHECKED -	REVISED -
	DATE - 8/6/10	REVISED -

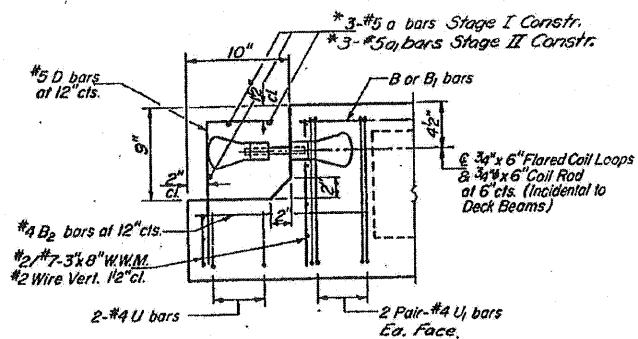
STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

EXISTING STRUCTURE PLANS FOR REFERENCE ONLY	
SCALE:	SHEET NO. 62 OF 90 SHEETS STA. TO STA.

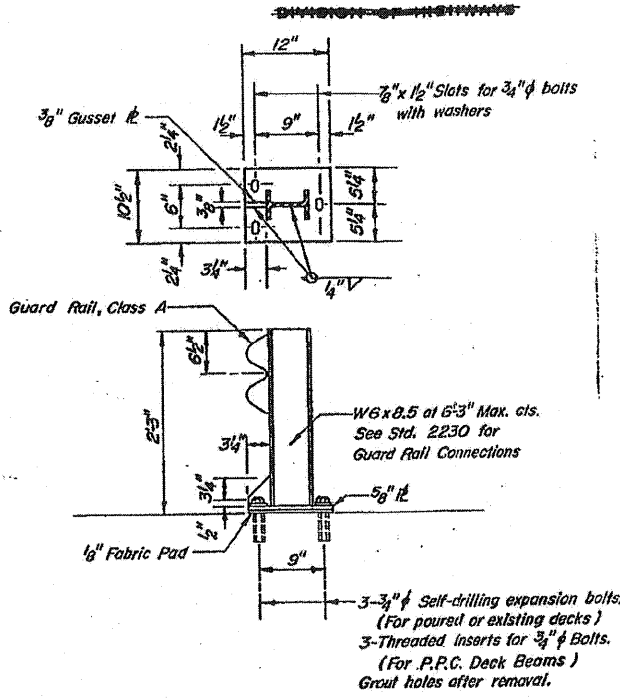
F.A.P. RTE. 646	SECTION BBR-1	COUNTY WHITESIDE	TOTAL SHEETS 90	SHEET NO. 62
CONTRACT NO. 84854				
FED. ROAD DIST. NO. 2 ILLINOIS FED. AID PROJECT				

EXISTING STRUCTURE PLANS - FOR REFERENCE ONLY

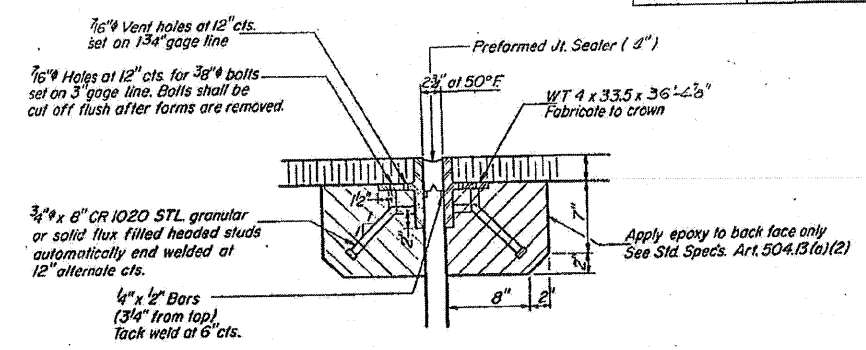
ROUTE NO.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.	SHEET NO. 3
FA 40	BBR	WHITESIDE	11	5	9 SHEETS
FED. ROAD DIST. NO. 2 ILLINOIS FED. AID PROJECT					



END OF BEAM (EXP. END)
(Dimensions are at right angles)
Also for fixed end @ Pier 2
* See Sheet #2 for Bar List

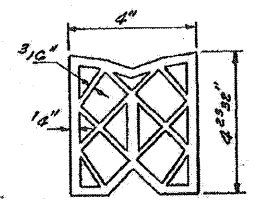


TEMPORARY GUARD RAIL DETAIL.
See Special Provisions

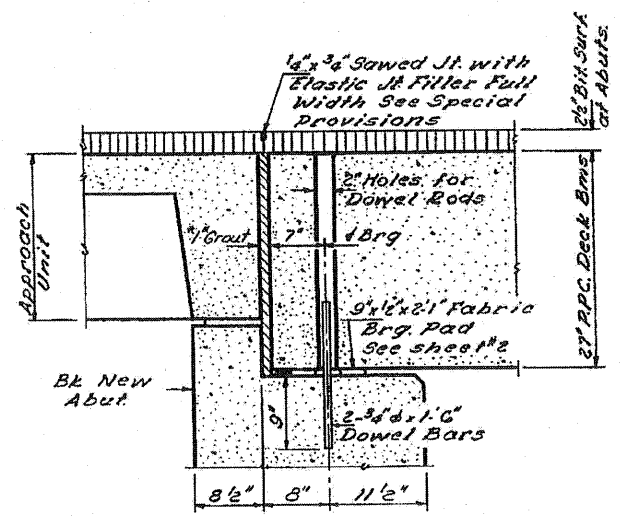


DETAIL "A"

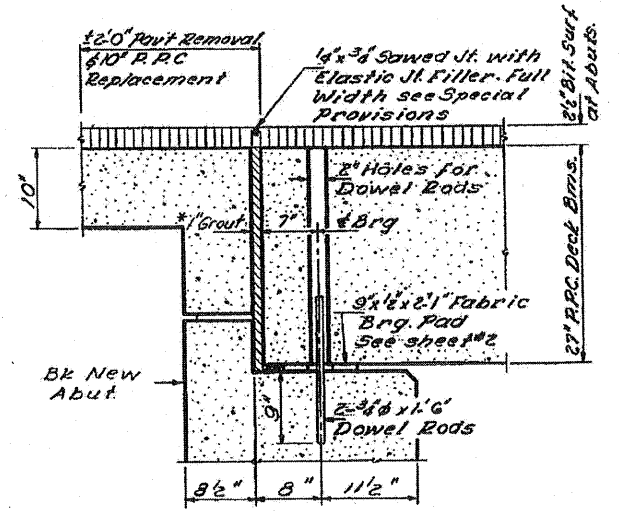
NOTE: Dimensions are at right angles.
Hatched areas to be poured after beams have been erected and joints grouted.
Ends of beams shall be aligned at the expansion joints. Any lineal variation in the beam lengths shall be placed at the fixed joint. See End of Beam Detail for reinforcement.



PREFORMED JT. SEALER (4")

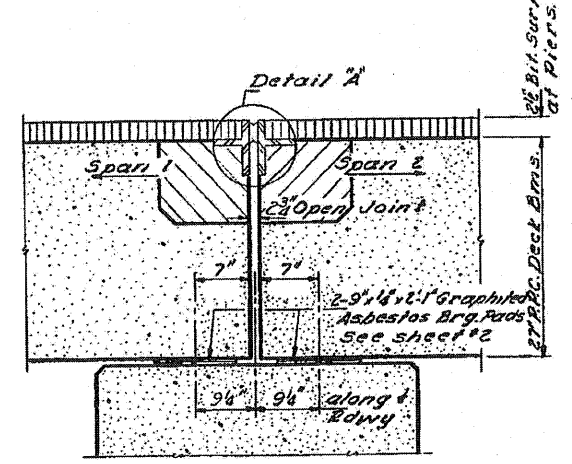


SECTION AT ABUTMENTS WITH PRECAST APPR. UNITS
Dimensions at rt. L's

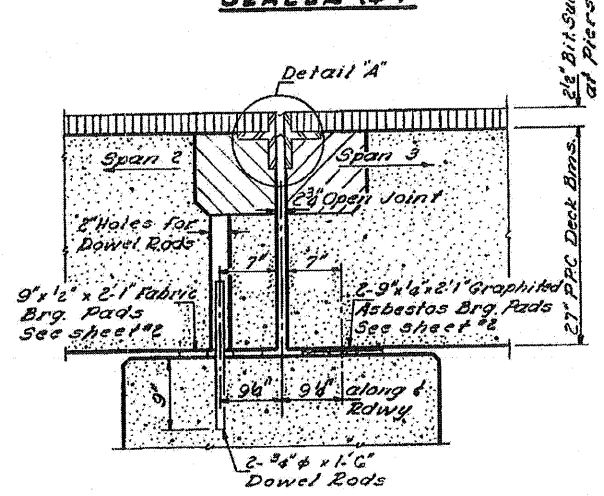


SECTION AT ABUTMENTS
Dimensions at rt. L's

* 1" Joint shall be packed with a very dry mix of 2:1 sand and P.C. mortar. This dimension may vary plus or minus to accommodate tolerance in beam lengths.



SECTION AT PIER 1
Dimensions are at rt. L's except where noted



SECTION AT PIER 2
Dimensions at rt. L's except where noted

DESIGNED	Charles P. [Signature]	EXAMINED	[Signature]
CHECKED	SHEN, T. A. I. F. A.	PASSED	[Signature]
DRAWN	J. Kessler	APPROVED	[Signature]
CHECKED	C. G. S. T.		

SUPERSTRUCTURE DETAILS
FA 40 SEC. 8 BR
WHITESIDE COUNTY
STATION 1876+23.67

USER NAME = #USER#	DESIGNED -	REVISED -
PLOT SCALE =	DRAWN -	REVISED -
PLOT DATE = 8/2/2010	CHECKED -	REVISED -
	DATE - 8/6/10	REVISED -

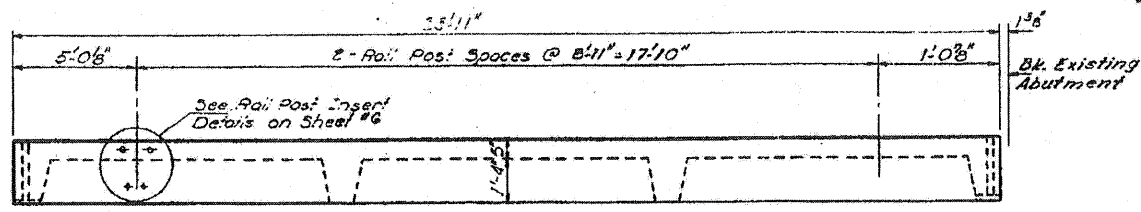
EXISTING STRUCTURE PLANS FOR REFERENCE ONLY	
SCALE:	SHEET NO. 63 OF 90 SHEETS STA. TO STA.

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
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CONTRACT NO. 84854				
FED. ROAD DIST. NO. 2 ILLINOIS FED. AID PROJECT				

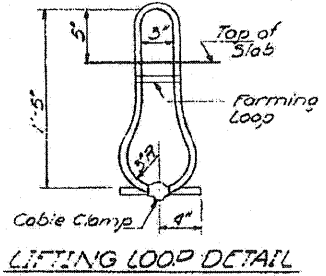
EXISTING STRUCTURE PLANS - FOR REFERENCE ONLY

STATE OF ILLINOIS
DIVISION OF HIGHWAYS

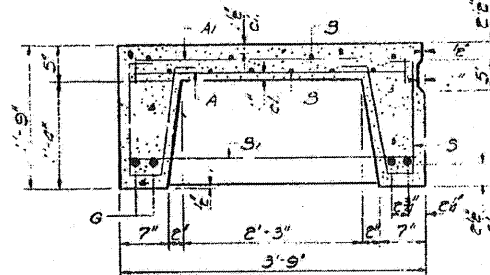
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SECTION	BBR-1
COUNTY	WHITESIDE
TOTAL SHEETS	90
SHEET NO.	64



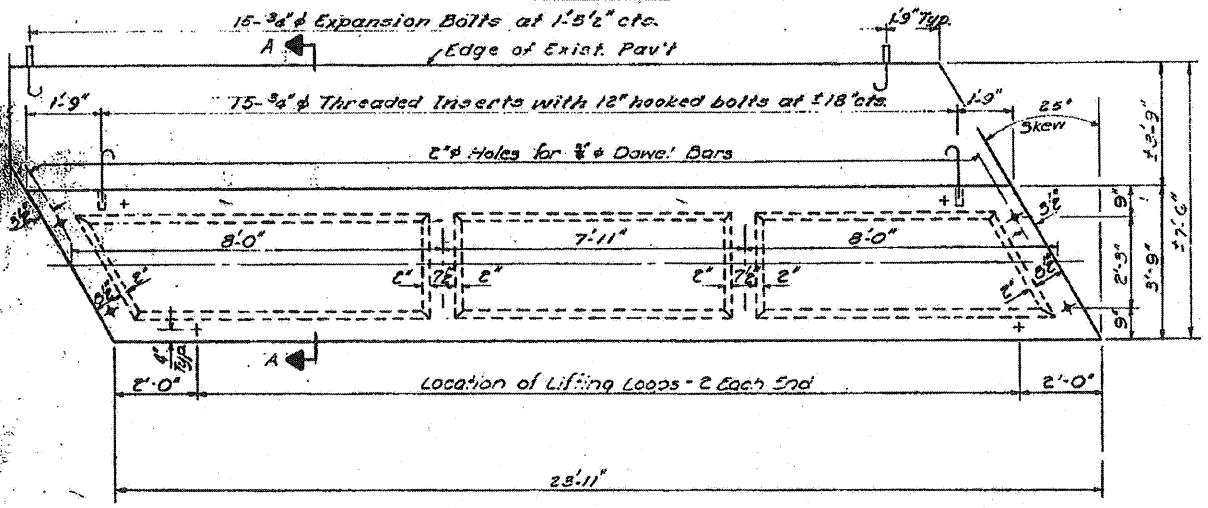
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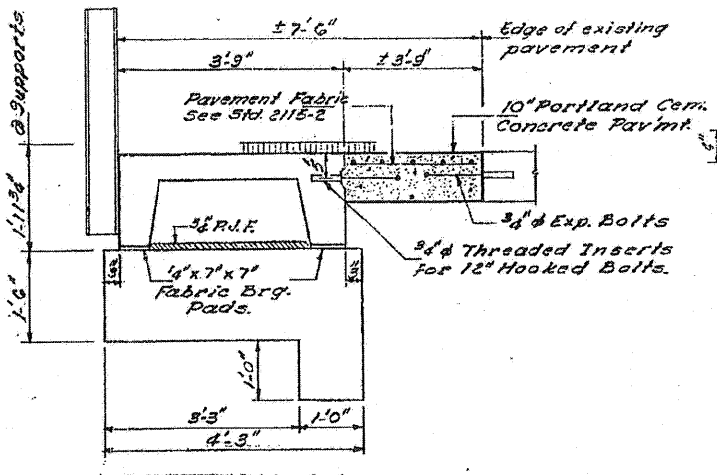
LIFTING LOOP DETAIL



SECTION THRU PRECAST UNIT



PLAN

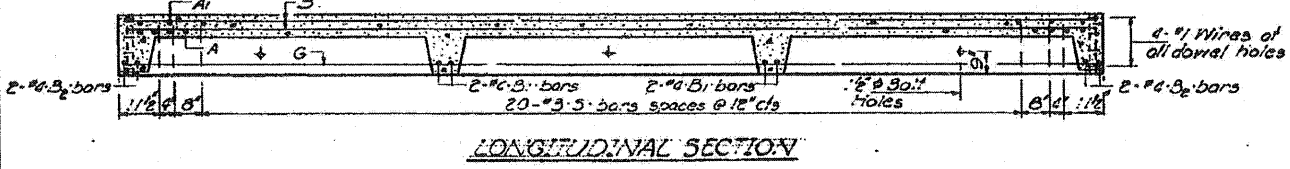
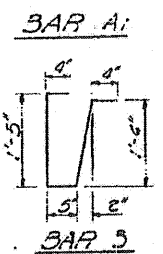


SECTION A-A

BAR LIST - ONE UNIT

Reinforcement to be cast into slab

Bar	No	Size	Length	Shape
A	23	#4	3'-3"	U
A1	33	#4	6'-0"	U
B	10	#4	23'-6"	U
G1	C	#4	3'-6"	U
G2	C	#4	3'-10"	U
G	C	#10	23'-6"	U
S	50	#3	3'-0"	U

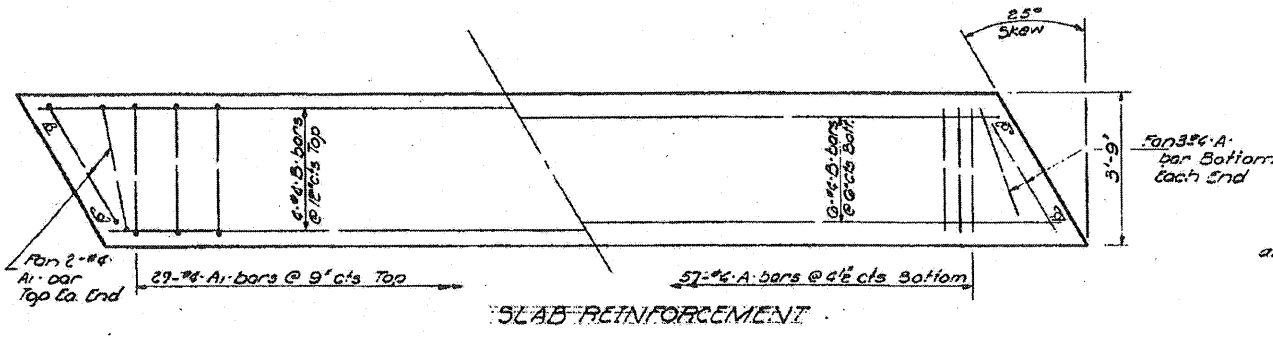


LONGITUDINAL SECTION

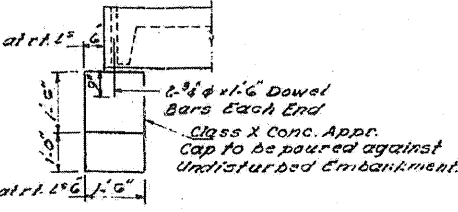
NOTES
Unless otherwise approved by the Engineer, lifting loops shall be 6x25 class wire rope with 7-bar core and shall have a minimum ultimate strength of 21,000 lbs. Loops shall be burned off after slab has been erected. Holes shall be drilled and anchor dowels grouted in place.
Cost of reinforcement and accessories cast into the slab unit, bearing pads, furnishing, drilling for, placing & grouting anchor dowels and 3/4" hooked bolts is included in Unit bid price for "Precast Concrete Bridge Slab."
The Precast Concrete Bridge Slab shall be erected and aligned with the exterior face of the exterior Deck Beam after Deck Beams are in final position.

TWO 24' PRECAST CONC. SLABS
BILL OF MATERIAL

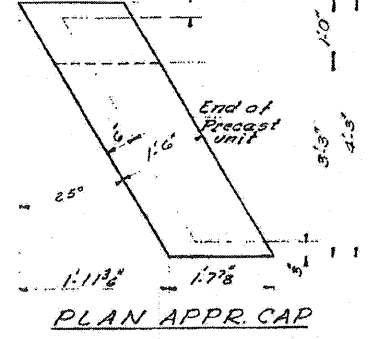
Item	Unit	Qty
Precast Concrete Bridge Slab	Sq. Ft.	180
Portland Cement Conc. Pavement (10")	Sq. Ft.	20
Pavement Fabric	Sq. Ft.	20
Expansion Bolts (3/4")	Each	30
Class X Concrete	Sq. Ft.	0.9



SLAB REINFORCEMENT



SECTION AT APPR. CAP



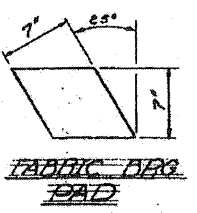
PLAN APPR. CAP

APPROACH DETAIL
F.A. RT. 49 SEC. 8-BR
WHITESIDE COUNTY
STATION 1375+33.67

DESIGNED: *Chack O'Brien*
CHECKED: *Shen T. A. F. A.*
DRAWN: *J. K. R. S. K.*
CHECKED: *S. T.*

EXAMINED: *[Signature]*
PASSED: *[Signature]*
APPROVED: *[Signature]*

DATE: April 9 1971



FABRIC BRG. PAD

STRESSES
f_c = 4,500 psi
f_c = 1800 psi
f_s = 20,000 psi
n = 8
LOADING H-3-20

FILE NAME = PACBBEL WEST Projects\2009\124106.WPS_IL_48\CV1\09\SH\A\2284854-ah.tmacad.dgn

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

USER NAME = #USER#	DESIGNED -	REVISED -
PLOT SCALE =	DRAWN -	REVISED -
PLOT DATE = 8/2/2010	CHECKED -	REVISED -
	DATE - 8/6/10	REVISED -

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

EXISTING STRUCTURE PLANS
FOR REFERENCE ONLY

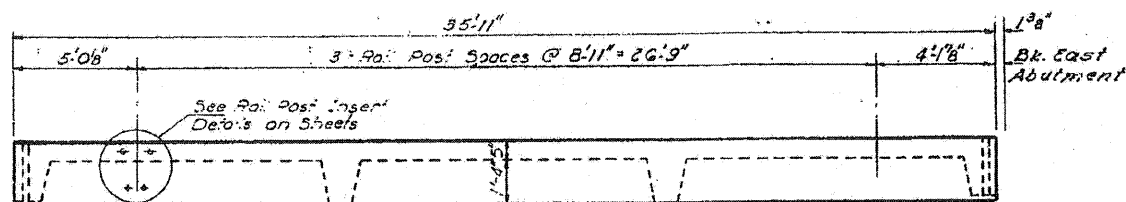
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F.A.P. NO.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
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CONTRACT NO. 84854				
FED. ROAD DIST. NO. 2 ILLINOIS FED. AID PROJECT				

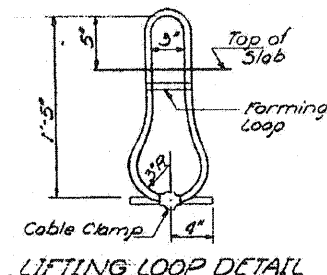
EXISTING STRUCTURE PLANS - FOR REFERENCE ONLY

SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
8BR	WHITESIDE	11	7

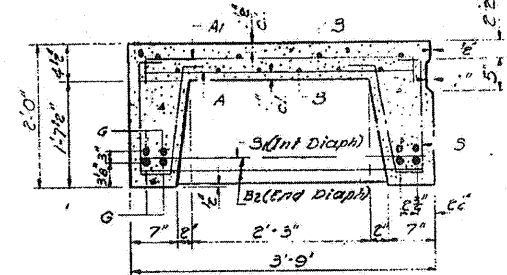
9 SHEETS



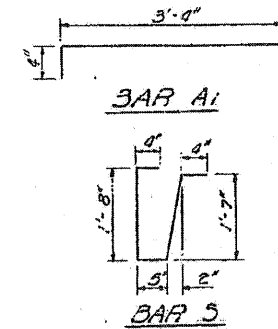
ELEVATION



LIFTING LOOP DETAIL

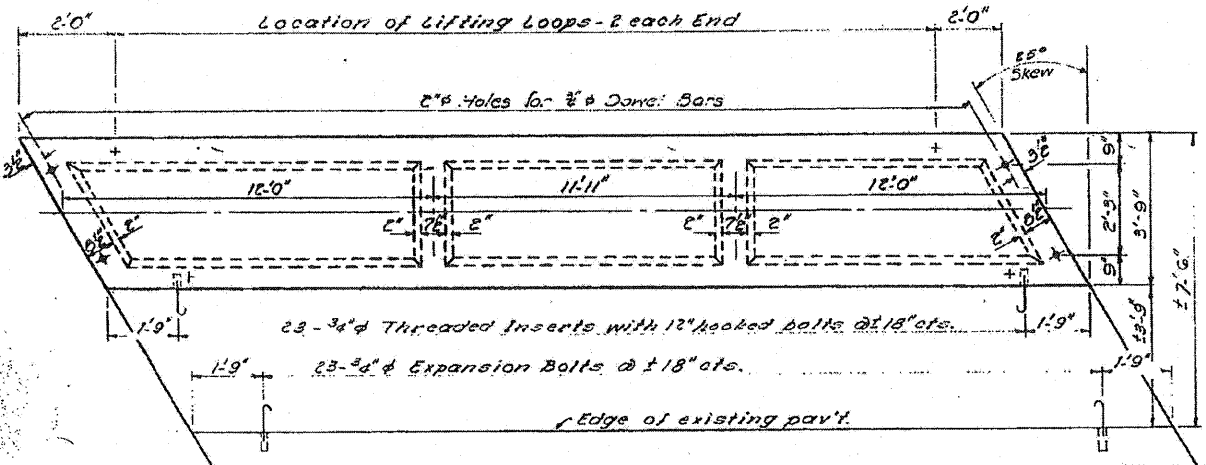


SECTION THRU PRECAST UNIT

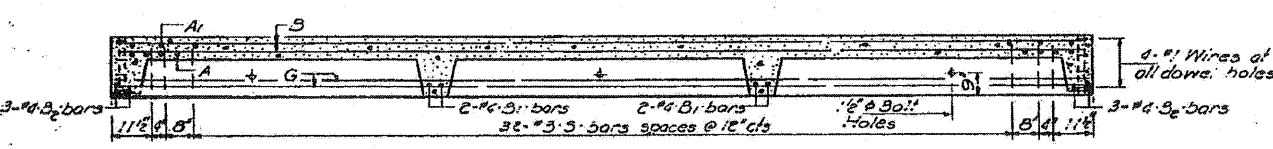


BAR LIST - ONE UNIT

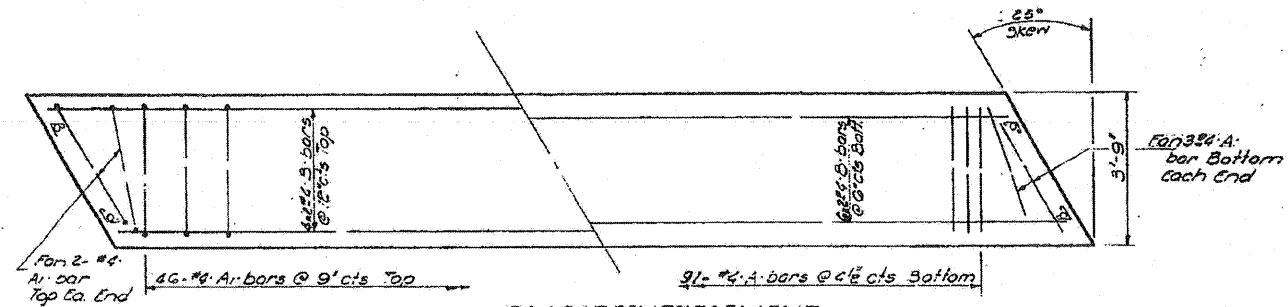
Bar No	Size	Length	Shape
A	#7	5'-3"	U
A1	#6	4'-0"	U
3	#6	18'-4"	U
3c	#6	3'-0"	U
5c	#6	3'-10"	U
6	#11	35'-7"	U
5	#5	4'-4"	U



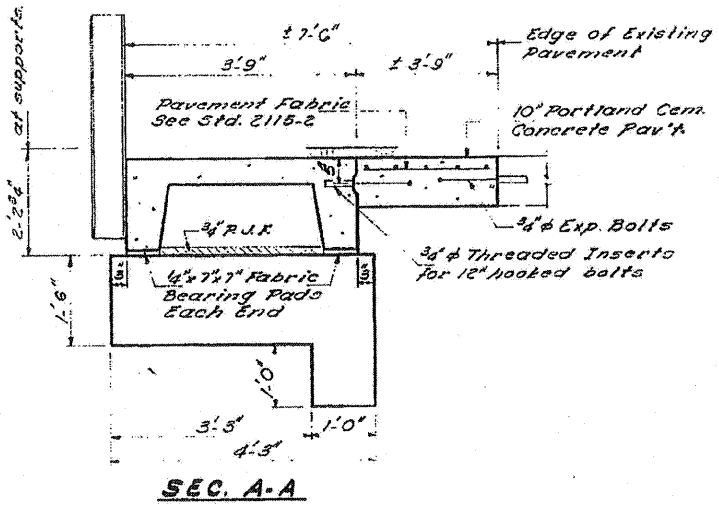
PLAN



LONGITUDINAL SECTION



SLAB REINFORCEMENT



SEC. A-A

See sheet #4 for Section A1 Appr. Cap and Plan Appr. Cap

NOTES

Unless otherwise approved by the Engineer, lifting loops shall be 6A Gx25 class wire raps with 3 bar core and shall have a minimum ultimate strength of 21,000 lbs. Loops shall be burned off after slab has been erected. Holes shall be drilled and anchor dowels grouted in place.
 Cost of reinforcement and accessories cast into the slab unit, bearing pads, furnishing, drilling for, placing and grouting anchor dowels and 3/4" hooked bolts is included in Unit bid price for Precast Concrete Bridge Slab.
 The Precast Concrete Bridge Slab shall be erected and aligned with the exterior face of the exterior Deck Beam after Deck Beams are in final position.

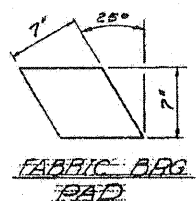
TWO 36' PRECAST CONC. SLABS
BILL OF MATERIAL

Item	Unit	Qty.
Precast Concrete Bridge Slab	Sq. Ft.	270
Portland Cement Conc. Pavement (10")	Sq. Yds.	30
Pavement Fabric	Sq. Yds.	30
Expansion Bolts 3/4"	Each	46
Class X Concrete	Cu. Yds.	0.9

APPROACH DETAIL
FA RT. 60 SEC. 8-BR
WHITESIDE COUNTY
STATION 1375+23.67

DESIGNED	CHARLES PHEASANT
CHECKED	STEPHEN J. HART
DRAWN	J. KESLER
CHECKED	S.T.

EXAMINED	APRIL 9 1971
PASSED	
APPROVED	



STRESSES
f'c = 4,500 psi
f'c = 1,800 psi
f's = 20,000 psi
n = 8

LOADING HS-20

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

EXISTING STRUCTURE PLANS
FOR REFERENCE ONLY

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
646	8BR-1	WHITESIDE	90	65
CONTRACT NO. 84854				

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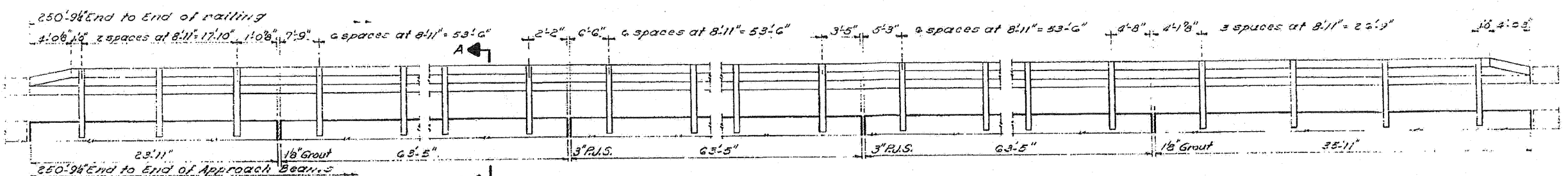
WILLS BURKE KELSEY ASSOCIATES LTD.
118 West Main Street, Suite 201
St. Charles, Illinois 60174
(630) 443-7755

USER NAME = #USER#	DESIGNED -	REVISED -
PLOT SCALE =	DRAWN -	REVISED -
PLOT DATE = 8/2/2010	CHECKED -	REVISED -
	DATE - 8/6/10	REVISED -

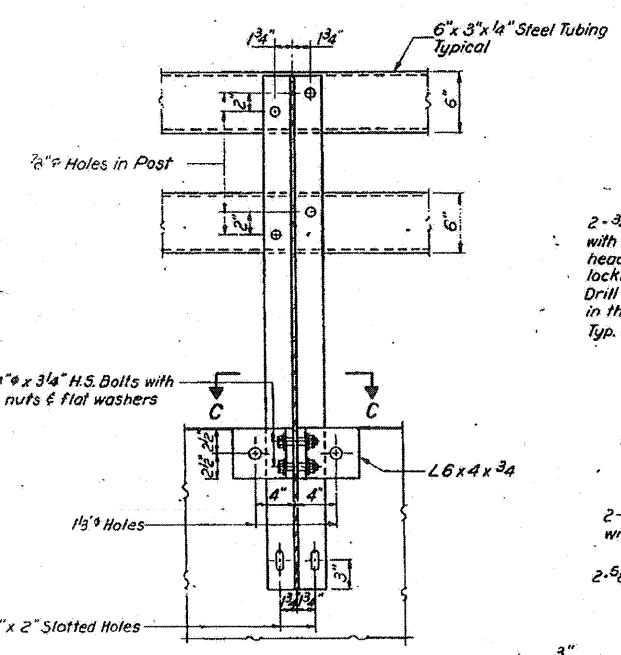
EXISTING STRUCTURE PLANS - FOR REFERENCE ONLY

SHEET NO.		8	
SECTION		BBR	
COUNTY		WHITESIDE	
TOTAL SHEETS		90	
SHEET NO.		66	

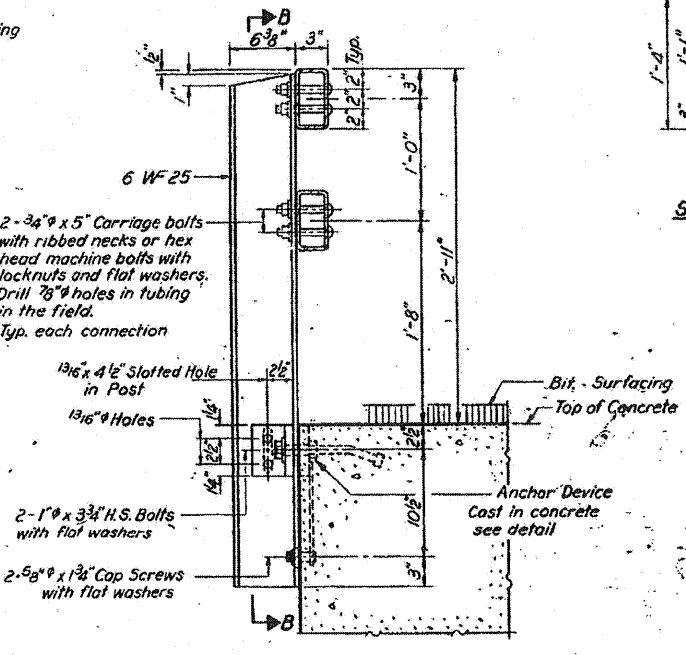
STATE OF ILLINOIS
DIVISION OF HIGHWAYS



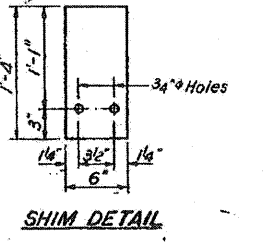
ELEVATION
Showing Outside Face of Railing



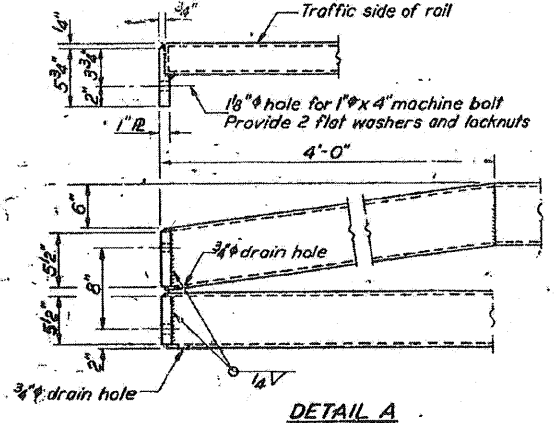
SECTION B-B



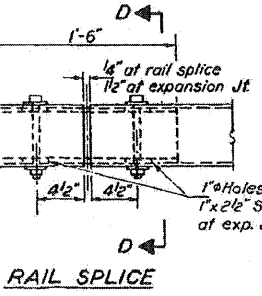
SECTION A-A



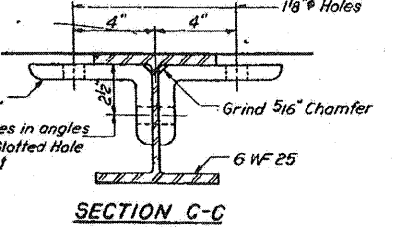
SHIM DETAIL



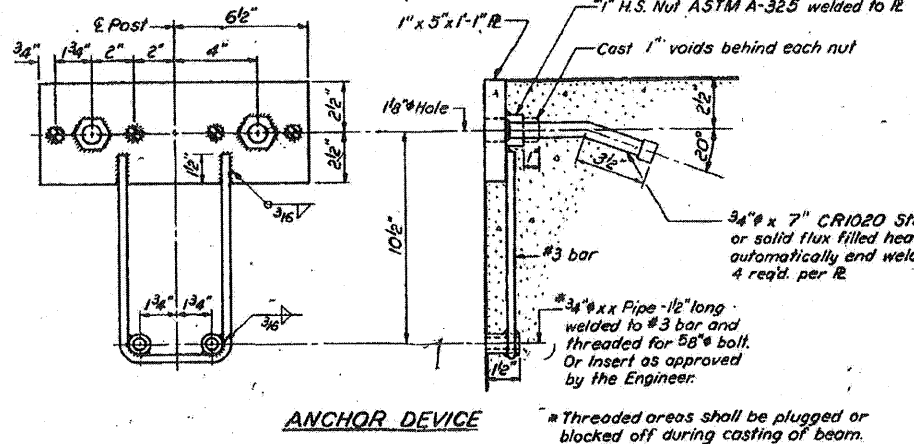
DETAIL A



SECTION D-D



SECTION C-C



ANCHOR DEVICE

* Threaded areas shall be plugged or blocked off during casting of beam.

NOTES

Hollow structural steel tubing shall conform to the requirements of ASTM designation A-501 "Hot Formed Welded and Seamless Carbon Steel Structural Tubing."

All other steel shapes and plates shall conform to the requirements of ASTM designation A-36 except posts shall conform to ASTM A-441.

Bolts, cap screws, and nuts shall conform to the requirement of ASTM designation A-307 except for high strength bolts, nuts and washers noted which shall conform to ASTM designation A-325.

All bolts, nuts, cap screws, washers and lock washers shall be galvanized in accordance with ASTM designation A-153.

All posts, railing, rail splices, anchor devices and angles shall be galvanized after shop fabrication in accordance with ASTM designation A-123 and A-385. Galvanized rail shall not be painted.

Railing shall be in accordance with Section 508 of the Standard Specifications, except as noted, and shall be paid for at the contract unit price per linear foot for STEEL RAILING, TYPE N

All field drilled holes shall be coated with an approved zinc rich paint before erection.

The lower portion of the post flange in contact with concrete shall receive two coats of asphalt paint conforming to Section 714.08 Type-B or place 1/2\"/>

The 3/4\"/>

For multi-span bridges, sufficient 1/2\"/>

BILL OF MATERIAL

Item	Unit	Quantity
STEEL RAILING, TYPE N	Lin. Ft.	502

TYPE N STEEL RAILING
FA RT 60 SEC. 8 BR
WHITESIDE COUNTY
STATION 1975.23.67

FILE NAME = P:\CIBBEL\WEST Projects\2009\1241002.M03.L140\CD\vt\10\gn\Shva\0284854-ahs-mac6.dgn

DESIGNED: *Shva*
CHECKED: *J.L. Armstrong*
DRAWN: *J.L. Armstrong*
CHECKED: *J.L. Armstrong*

EXAMINED: *J.L. Armstrong*
PASSED: *J.L. Armstrong*
APPROVED: *J.L. Armstrong*

(9'-0" Max Post Spacing)

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

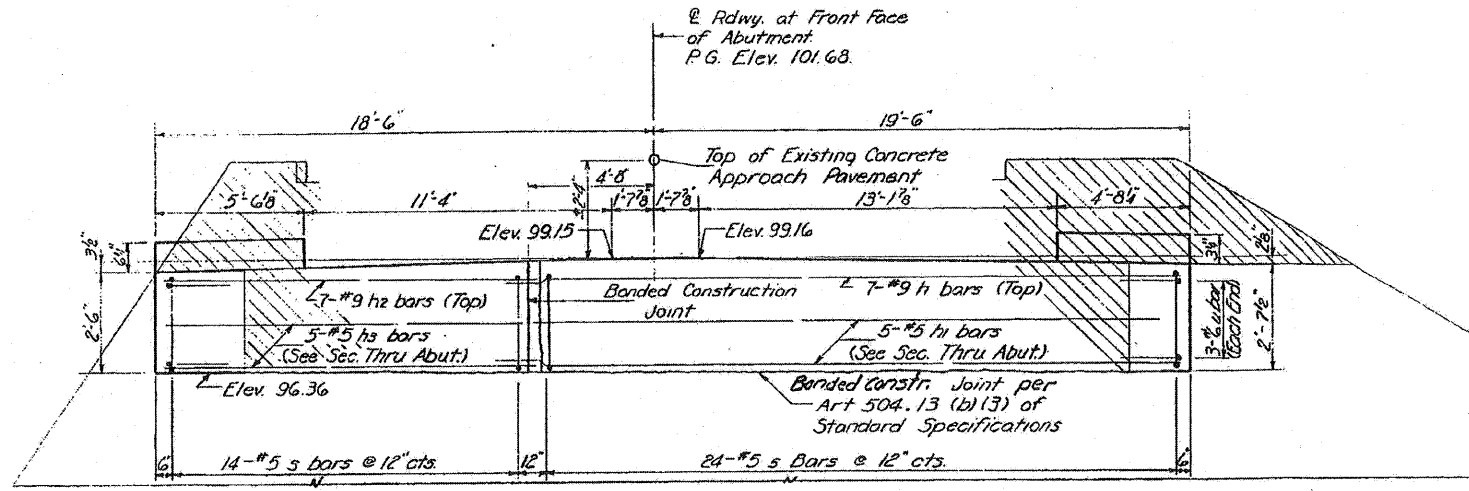
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PLOT SCALE =	DRAWN -	REVISED -
PLOT DATE = 8/2/2010	CHECKED -	REVISED -
	DATE - 8/6/10	REVISED -

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

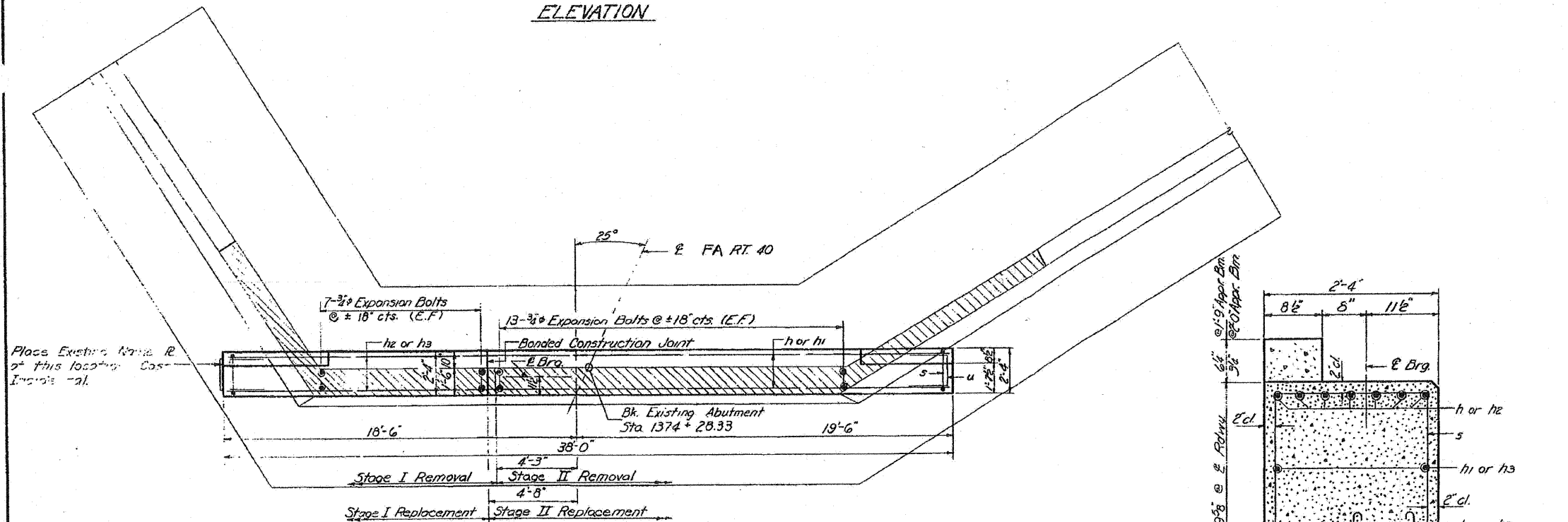
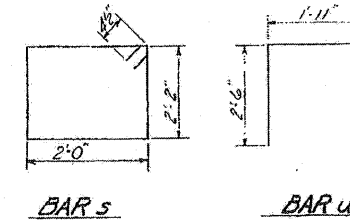
EXISTING STRUCTURE PLANS FOR REFERENCE ONLY	
SCALE:	SHEET NO. 66 OF 90 SHEETS STA. TO STA.

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
646	BBR-1	WHITESIDE	90	66
CONTRACT NO. 84854			FED. ROAD DIST. NO. 2 ILLINOIS FED. AID PROJECT	

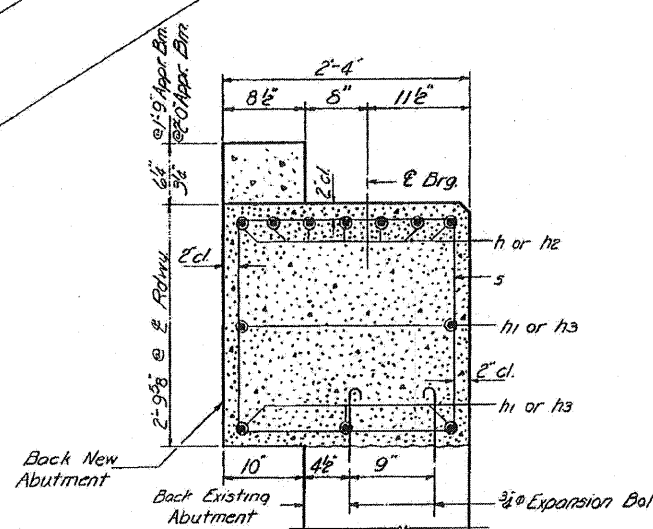
EXISTING STRUCTURE PLANS - FOR REFERENCE ONLY



ELEVATION



PLAN



SECTION THRU ABUTMENT
(Dimensions @ Ft. ±)

TWO ABUTMENTS
BILL OF MATERIAL

Bar	No.	Size	Length	Shape
h	7	#9	24'-0"	—
h1	5	#5	24'-0"	—
h2	7	#9	14'-0"	—
h3	5	#5	14'-0"	—
s	38	#5	9'-1"	□
u	6	#6	6'-11"	□
Class X Concrete				Cu. Yds. 8.8
Reinforcement Bars				Lbs. 1530
Expansion Bolts (#8)				Each 40
Concrete Removal				Cu. Yds. 4.0

NORTH ABUTMENT
FA RT. 40 SEC. 8BR
WHITESIDE COUNTY
STA. 1375 + 23.67

NOTE:
Hatched area indicates Concrete Removal Reinforcement extending into removed area shall be cleaned and incorporated into the new construction.
Expansion Bolts shall be anchored in sound concrete.
All edges shall have standard 3/4" chamfers.

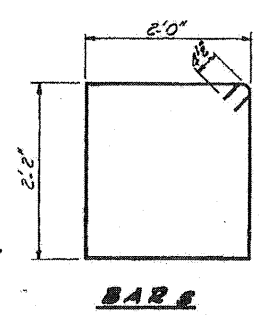
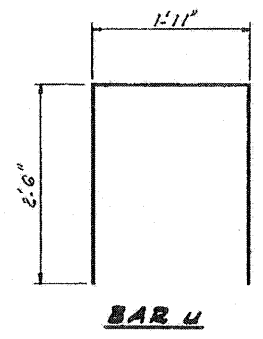
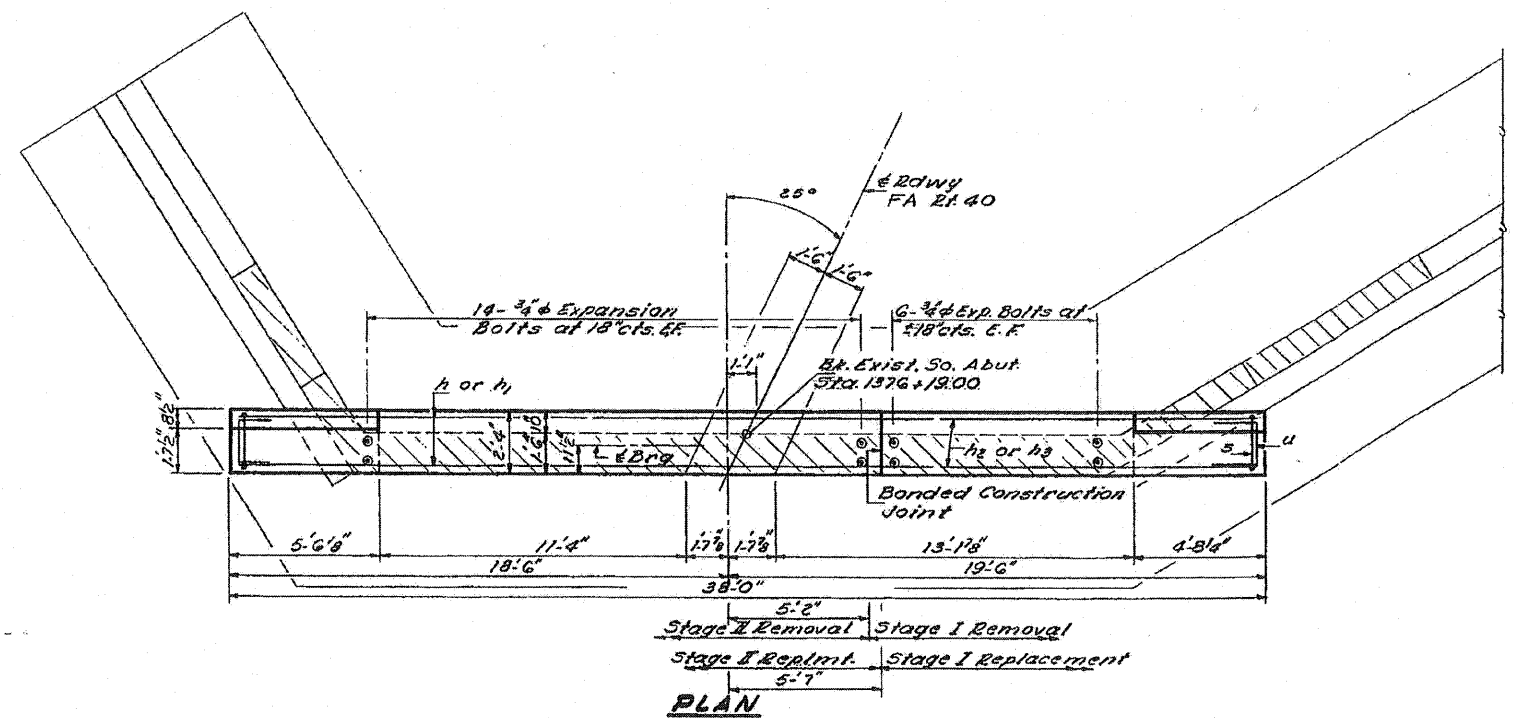
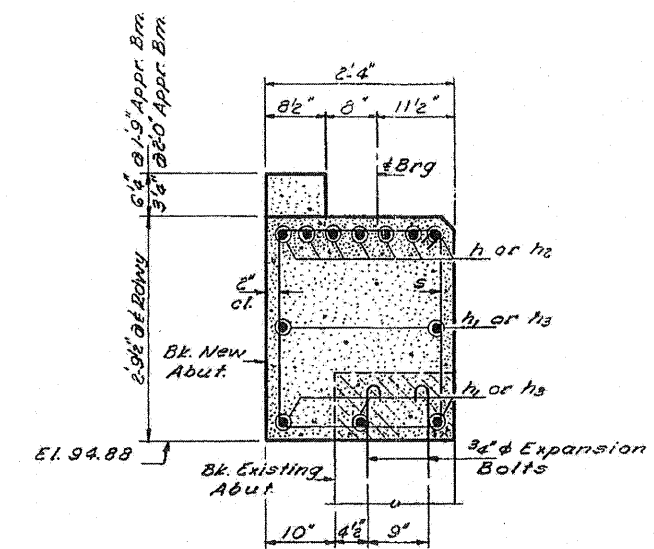
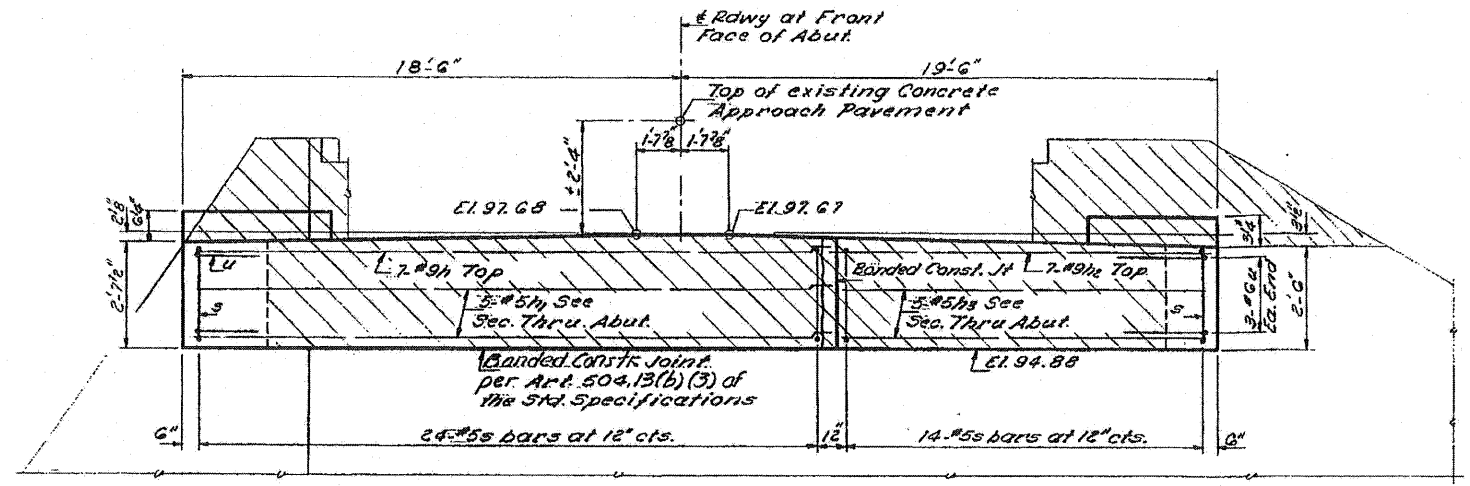
DESIGNED: *Charles P. Wilkins*
CHECKED: *S.M.E. T.A. P.K.*
DRAWN: *G.E. Wilkins*
CHECKED: *C.G. S.T.*

EXAMINED: *[Signature]*
PASSED: _____
APPROVED: _____

DATE: 8/6/10

FILE NAME = P:\CBBEL\MEST_Proj\2009\124102_M05_IL_40\Cvt1\Ugn\Shk\0264854-ahht-mac7.dgn

EXISTING STRUCTURE PLANS - FOR REFERENCE ONLY



BILL OF MATERIAL

Bar	No.	Size	Length	Shape
h	7	#9	24'-0"	—
h ₁	5	#5	24'-0"	—
h ₂	7	#9	14'-0"	—
h ₃	5	#5	14'-0"	—
s	38	#5	9'-7"	□
u	6	#6	6'-11"	□
Class X Concrete			Cu. Yds	8.8
Reinforcement Bars			Lbs	1590
Expansion Bolts			Each	40
Concrete Removal			Cu. Yds	4.0

Notes
 Hatched area indicates Concrete Removal. Reinforcement extending into removed area shall be cleaned and incorporated into the new construction.
 Expansion Bolts shall be anchored in sound concrete.
 All edges shall have standard 3/8" chamfers.

DESIGNED: *Chad Phelan*
 CHECKED: *SHEU, T. AIFA*
 DRAWN: *J. Kessler*
 CHECKED: *C.C. ST.*

APPROVED: *[Signature]*
 EXAMINED: *[Signature]*
 PASSED: *[Signature]*

DATE: APRIL 9 2011

SOUTH ABUTMENT
FA RT. 40 SEC. 8 BR
WHITESIDE COUNTY
STATION 1376+19.00

EXISTING STRUCTURE PLANS - FOR REFERENCE ONLY

FILE NAME = P:\CBBEL WEST Projects\2009\121008_W09_IL48_Civil\09\Shk\2008-08-04-struct-main.dgn

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 116 West Main Street, Suite 201
 St. Charles, Illinois 60174
 (630) 443-7755

USER NAME = #USER#	DESIGNED -	REVISED -
PLOT SCALE =	DRAWN -	REVISED -
PLOT DATE = 8/2/2010	CHECKED -	REVISED -
	DATE - 8/6/10	REVISED -

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

EXISTING STRUCTURE PLANS
FOR REFERENCE ONLY

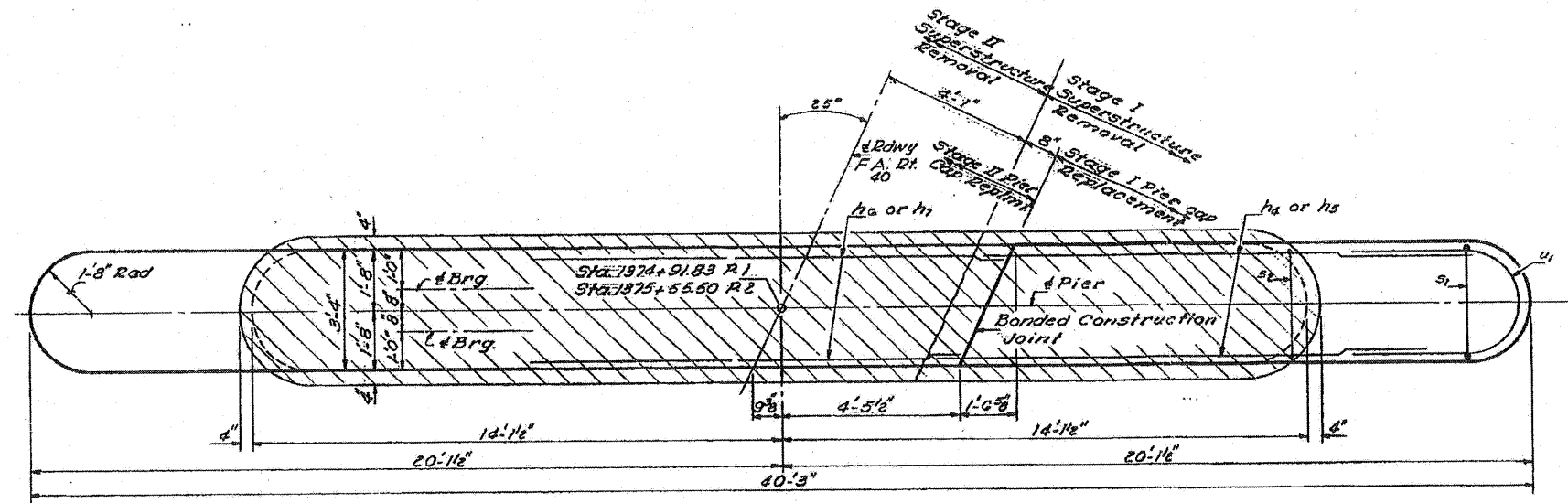
SCALE: SHEET NO. 68 OF 90 SHEETS STA. TO STA.

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
646	BBR-1	WHITESIDE	90	68
CONTRACT NO. 84854				
FED. ROAD DIST. NO. 2 ILLINOIS FED. AID PROJECT				

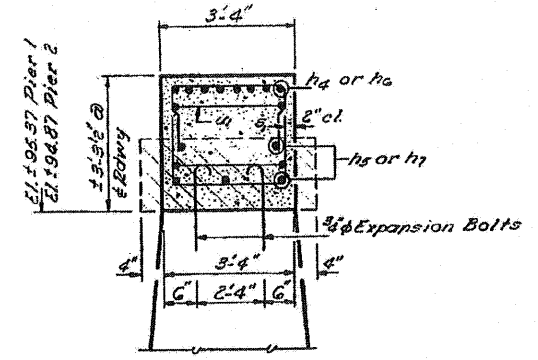
STATE OF ILLINOIS
DIVISION OF HIGHWAYS

ROUTE NO.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
PA 40	BBR	WHITESIDE	11	11
FED. ROAD DIST. NO. 2		ILLINOIS	FED. AID PROJECT	

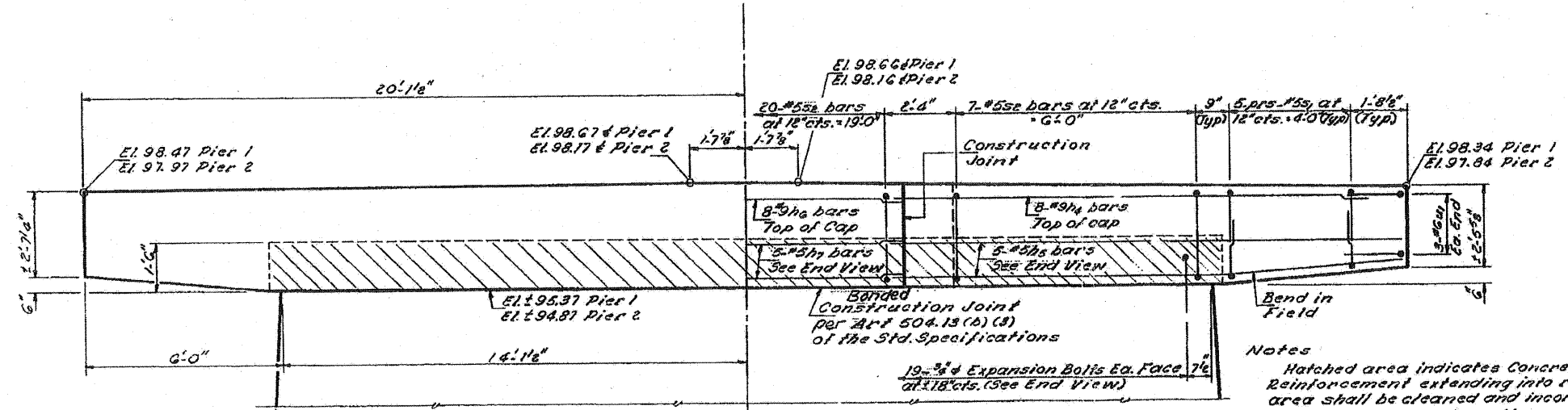
SHEET NO. 9
9 SHEETS



PLAN



END VIEW

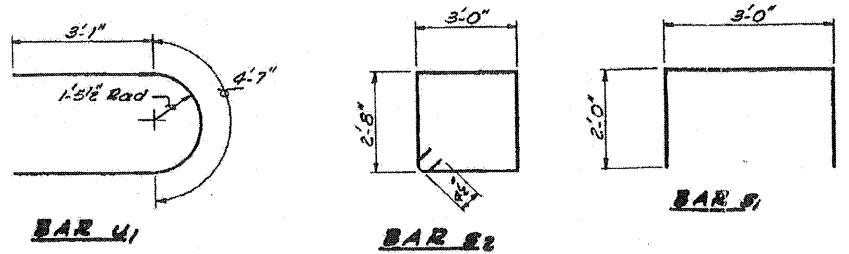


ELEVATION
(Looking South)

Notes
Hatched area indicates Concrete Removal. Reinforcement extending into removed area shall be cleaned and incorporated into the new construction.
Expansion Bolts shall be anchored in sound concrete.
All edges shall have standard 3/4" chamfers.

**TWO PIERS
BILL OF MATERIAL**

Bar	No.	Size	Length	Shape
h4	16	#9	15'-0"	—
h5	10	#5	15'-0"	—
h6	16	#9	23'-0"	—
h7	10	#5	23'-0"	—
s1	40	#5	7'-0"	□
s2	54	#5	12'-7"	□
u1	12	#6	10'-9"	U
Class X Concrete			Cu. Yds	30.3
Reinforcement Bars			Lbs.	3500
Expansion Bolts			Each	76
Concrete Removal			Cu. Yds	13



DESIGNED: *Charles P. H...*
CHECKED: SHEN, T. AIF 4
DRAWN: J. Kessler
CHECKED: CT

APR 9 1971
EXAMINED: *[Signature]*
PASSED: _____
APPROVED: _____

PIERS 1 & 2
FA RT. 40 SEC. 8 BR
WHITESIDE COUNTY
STATION 117423.67

FILE NAME = P:\CIBBEL\MEST Proj\mest\2809\124106_M03_IL140\Civil\Drawn\Shen\A\2809124106.dgn

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116 West Main Street, Suite 201
St. Charles, Illinois 60174
(830) 443-7755

USER NAME = #USER#	DESIGNED -	REVISED -
PLOT SCALE =	DRAWN -	REVISED -
PLOT DATE = 8/2/2010	CHECKED -	REVISED -
	DATE - 8/6/10	REVISED -

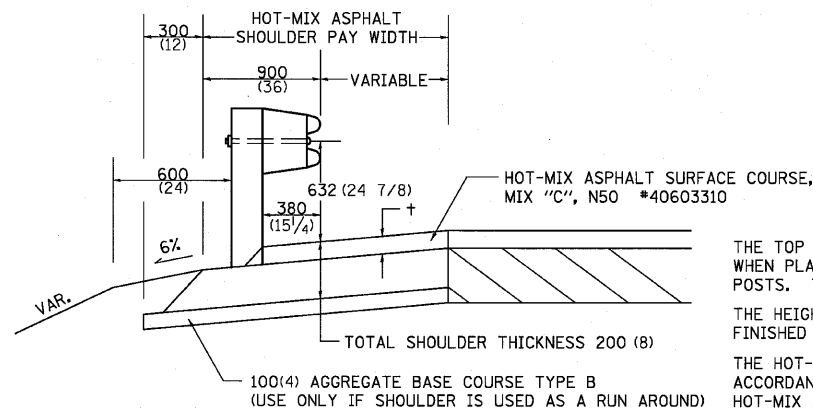
STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

EXISTING STRUCTURE PLANS FOR REFERENCE ONLY	
SCALE:	STA. TO STA.
SHEET NO. 69 OF 90 SHEETS	

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
646	BBR-1	WHITESIDE	90	69
CONTRACT NO. 84854			ILLINOIS FED. AID PROJECT	

EXISTING STRUCTURE PLANS - FOR REFERENCE ONLY

DETAIL OF HOT-MIX ASPHALT SHOULDER AT GUARD RAIL



† = SEE TYPICAL SECTIONS FOR THICKNESS

GENERAL NOTES

THE TOP LIFT SHALL NOT BE PLACED BEHIND THE GUARDRAIL POSTS. WHEN PLACING THE TOP LIFT THE RAIL MUST BE REMOVED FROM THE POSTS. THE POST SHALL NOT BE REMOVED.

THE HEIGHT OF THE GUARD RAIL SHALL BE SET 632 (24 7/8) FROM THE FINISHED SURFACE.

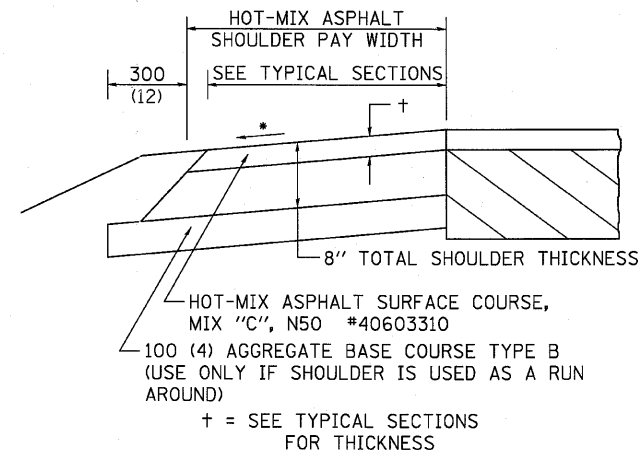
THE HOT-MIX ASPHALT SHOULDER SHALL BE CONSTRUCTED IN ACCORDANCE WITH SECTION 482 EXCEPT THE TOP LIFT SHALL BE HOT-MIX ASPHALT SURFACE COURSE, MIXTURE C, N50. THE WORK WILL BE PAID FOR AT THE CONTRACT UNIT PRICE PER TON FOR HOT-MIX ASPHALT SURFACE COURSE, MIXTURE "C", N50 AND SQUARE METER (SQUARE YARD) FOR HOT-MIX ASPHALT SHOULDERS OF THE THICKNESS SPECIFIED. THE REMOVAL & REINSTALLATION OF THE GUARDRAIL WILL BE INCLUDED IN THE COST OF THE HOT-MIX ASPHALT SURFACE COURSE, MIXTURE C, N50.

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

REVISED - 11-01-07

DETAIL OF HOT-MIX ASPHALT SHOULDER AT GUARD RAIL 23.4

HOT-MIX ASPHALT SHOULDER



GENERAL NOTES

THE HOT-MIX ASPHALT SHOULDER SHALL BE CONSTRUCTED IN ACCORDANCE WITH SECTION 482 EXCEPT THE TOP LIFT SHALL BE HOT-MIX ASPHALT SURFACE COURSE, MIX "C", N50 #40603310. THE WORK WILL BE PAID FOR AT THE CONTRACT UNIT PRICE PER TON FOR HOT-MIX ASPHALT SURFACE COURSE, MIX "C", N50 #40603310 AND SQUARE YARD FOR HOT-MIX ASPHALT SHOULDERS OF THE THICKNESS SPECIFIED.

USE HOT-MIX ASPHALT SURFACE COURSE, MIX "C", N50 #40603310. WHEN RESURFACING EXISTING HOT-MIX ASPHALT SHOULDERS. THE THICKNESS IS SHOWN ON THE TYPICAL SECTIONS. THIS WORK WILL BE PAID FOR AT THE CONTRACT UNIT PRICE PER TON FOR HOT-MIX ASPHALT SURFACE COURSE, MIX "C", N50 #40603310.

REMOVAL OF MATERIAL FOR PLACEMENT OF THE HOT-MIX ASPHALT SHOULDER TO BE PAID FOR IN UNITS FOR EXCAVATING AND GRADING EXISTING SHOULDERS OR IN CUBIC YARDS FOR EARTH EXCAVATION OR EARTH EXCAVATION WIDENING.

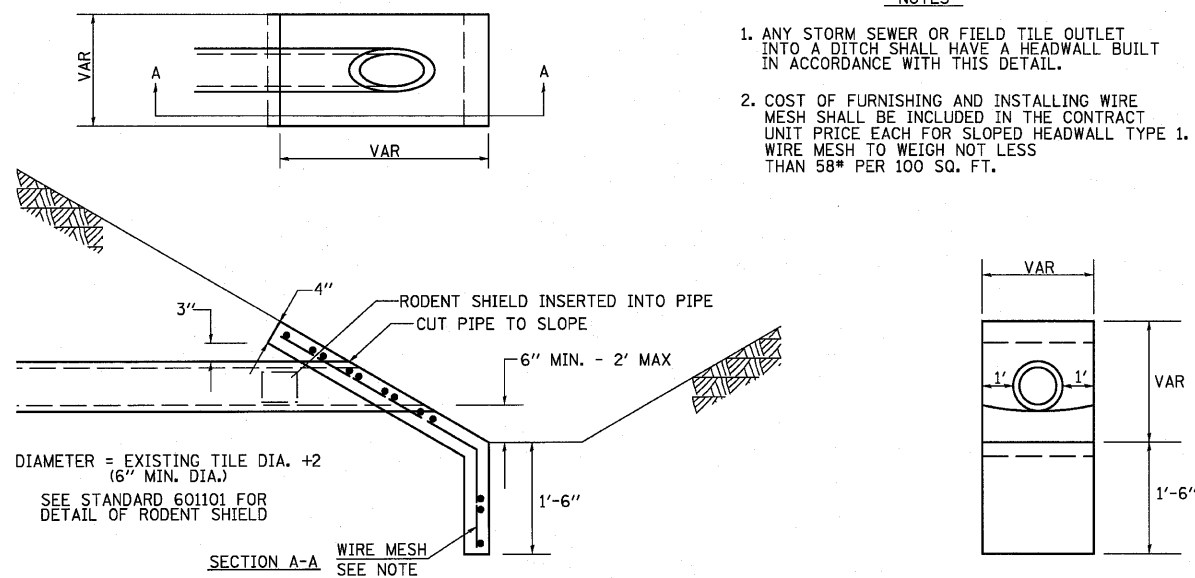
* 4% WHEN MAINLINE IS ON TANGENT. FOR CROSS SLOPE ON SUPERELEVATION SECTION, SEE HIGHWAY STANDARD 482001 OR 482006.

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

REVISED - 11-01-07

HOT-MIX ASPHALT SHOULDER 23.4a

SLOPED HEADWALL TYPE 1 FOR FIELD TILE OUTLETS



NOTES

1. ANY STORM SEWER OR FIELD TILE OUTLET INTO A DITCH SHALL HAVE A HEADWALL BUILT IN ACCORDANCE WITH THIS DETAIL.
2. COST OF FURNISHING AND INSTALLING WIRE MESH SHALL BE INCLUDED IN THE CONTRACT UNIT PRICE EACH FOR SLOPED HEADWALL TYPE 1. WIRE MESH TO WEIGH NOT LESS THAN 58# PER 100 SQ. FT.

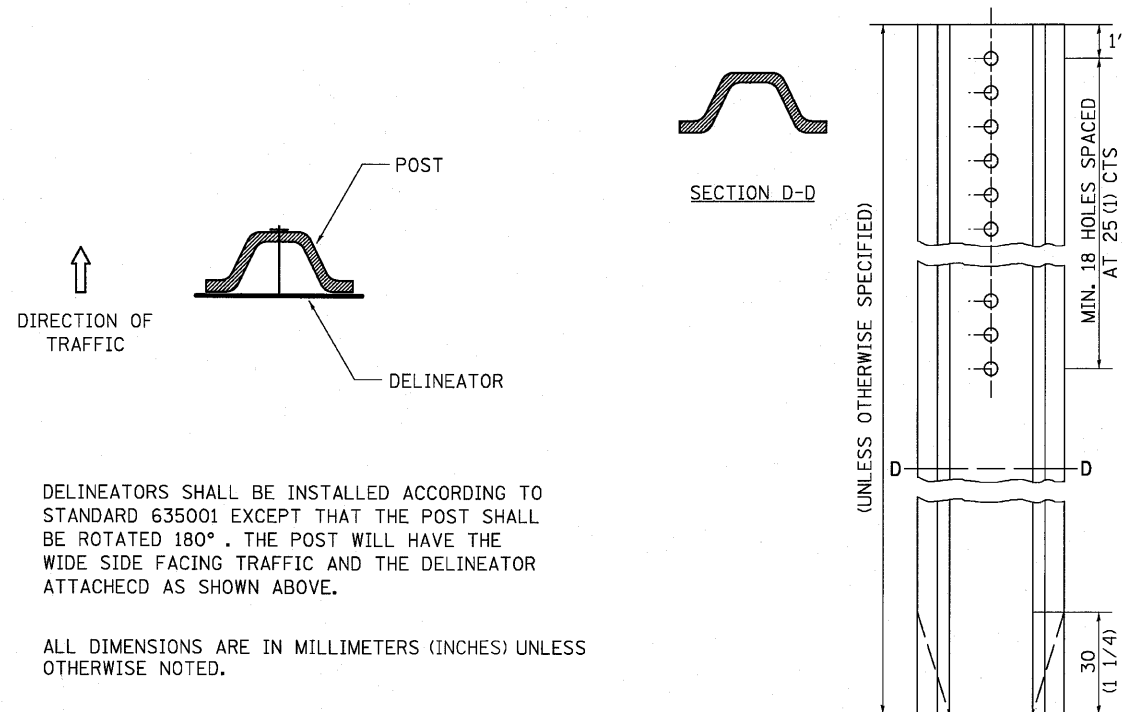
DIAMETER = EXISTING TILE DIA. +2 (6" MIN. DIA.)
SEE STANDARD 601101 FOR DETAIL OF RODENT SHIELD

SECTION A-A WIRE MESH SEE NOTE

REVISED - 10-21-08

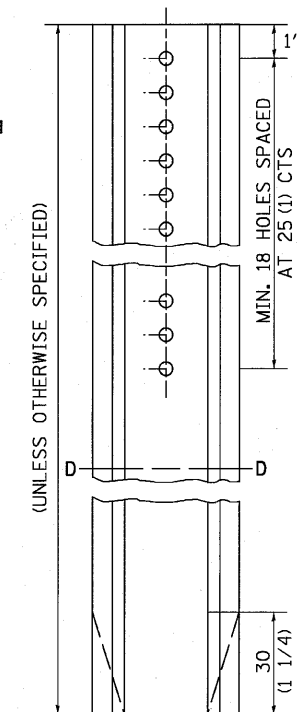
SLOPED HEADWALL TYPE 1 FOR FIELD TILE OUTLETS 28.4

DELINEATOR AND POST ORIENTATION



DELINEATORS SHALL BE INSTALLED ACCORDING TO STANDARD 635001 EXCEPT THAT THE POST SHALL BE ROTATED 180°. THE POST WILL HAVE THE WIDE SIDE FACING TRAFFIC AND THE DELINEATOR ATTACHED AS SHOWN ABOVE.

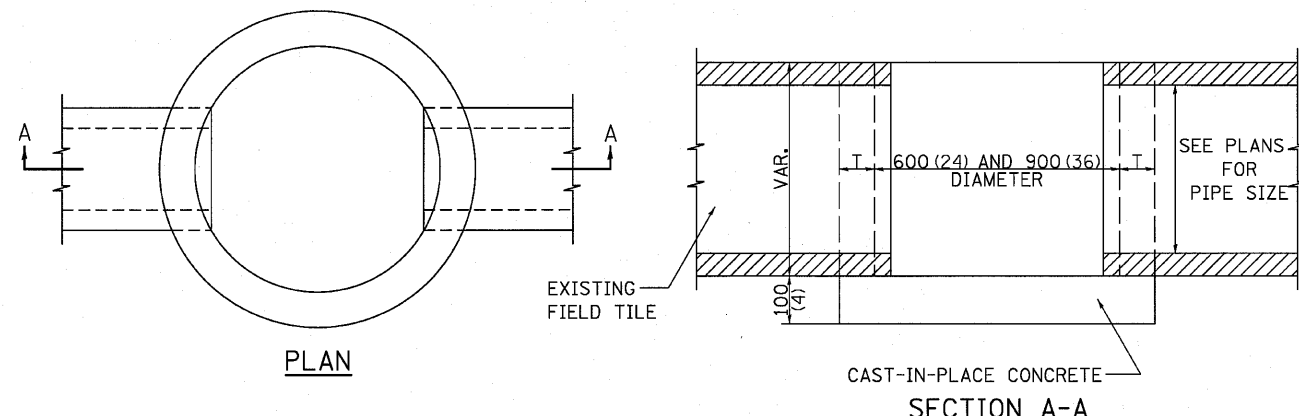
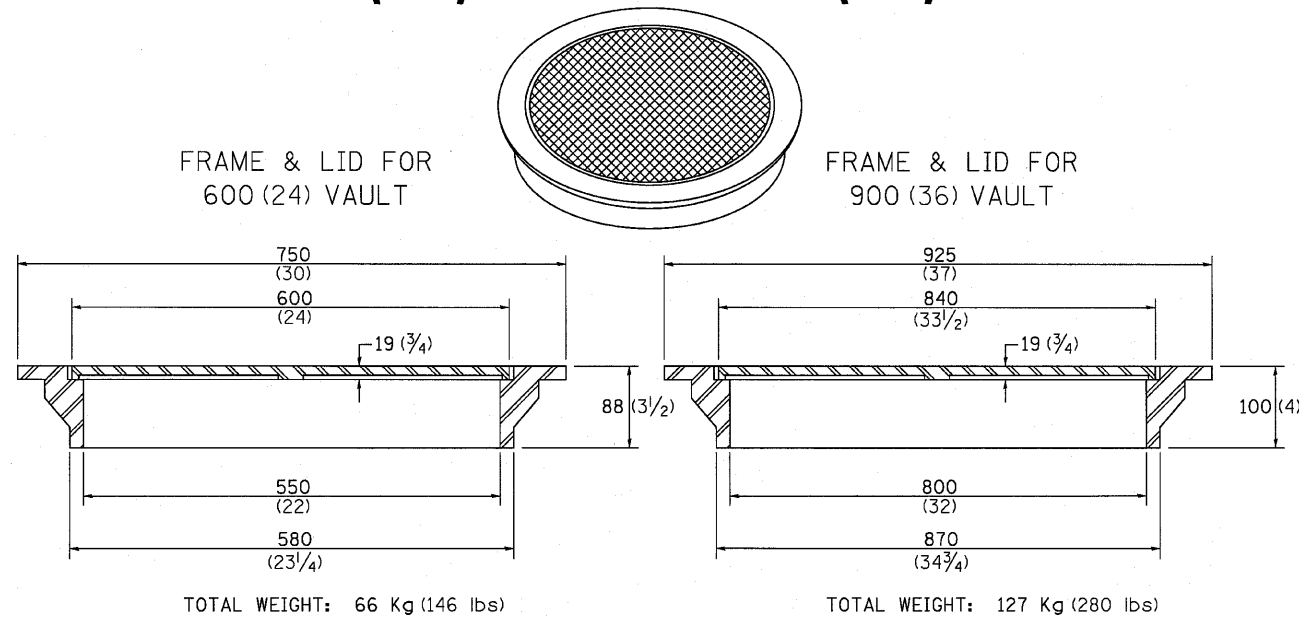
ALL DIMENSIONS ARE IN MILLIMETERS (INCHES) UNLESS OTHERWISE NOTED.



REVISED - 11-01-07	REGION 2 / DISTRICT 2 STANDARD				F.A.P. RTE. 646	SECTION 8BR-1	COUNTY WHITESIDE	TOTAL SHEETS 90	SHEET NO. 70
REVISED -	SCALE:	SHEET NO. OF SHEETS	STA. TO STA.	CONTRACT NO. 84854					
REVISED -	FED. ROAD DIST. NO. 2 ILLINOIS FED. AID PROJECT								

DELINEATOR AND POST ORIENTATION 37.4

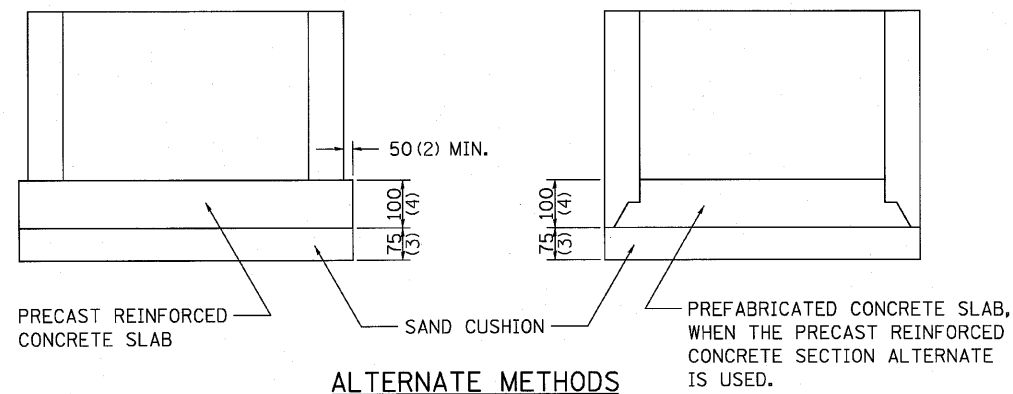
FIELD TILE JUNCTION VAULTS 600 (24) AND 900 (36) DIA.



ALTERNATE MATERIALS FOR WALLS	T
BRICK MASONRY	200 (8)
CAST-IN-PLACE CONCRETE	150 (6)
CONCRETE MASONRY UNIT	125 (5)
PRECAST REINFORCED CONCRETE SECTION	75 (3)

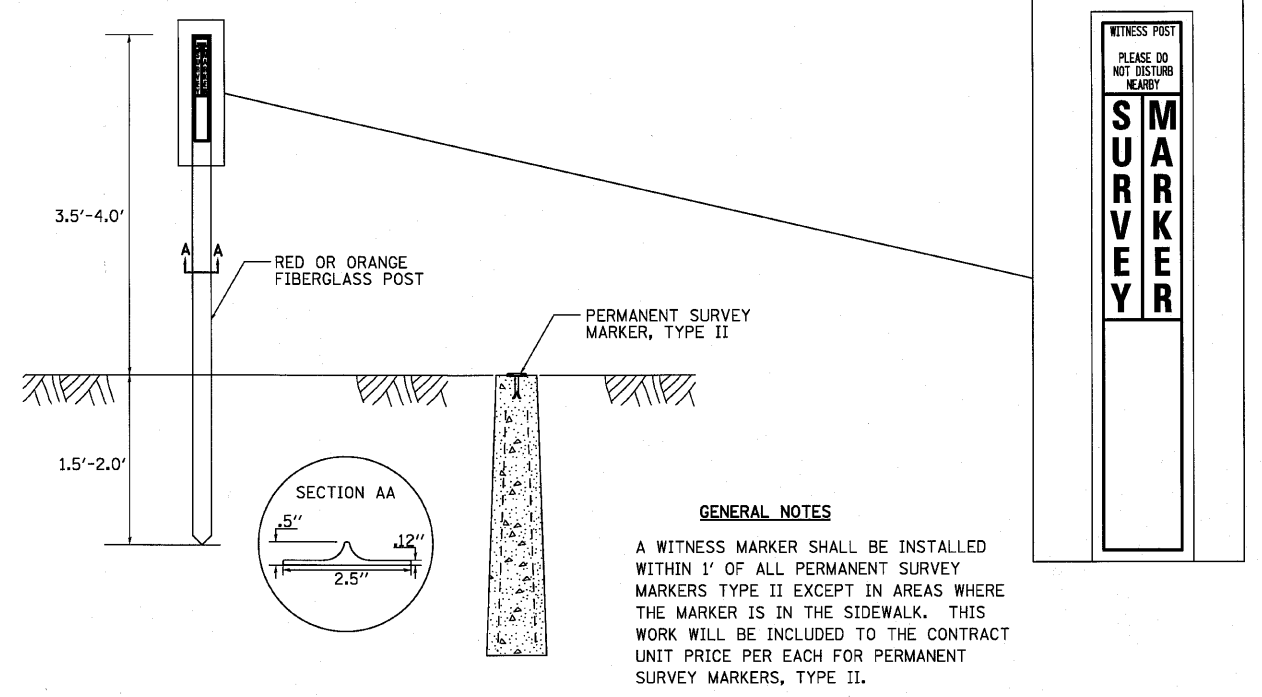
NOTE: THE FRAME AND LID IS REQUIRED ON ALL JUNCTION VAULTS.

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

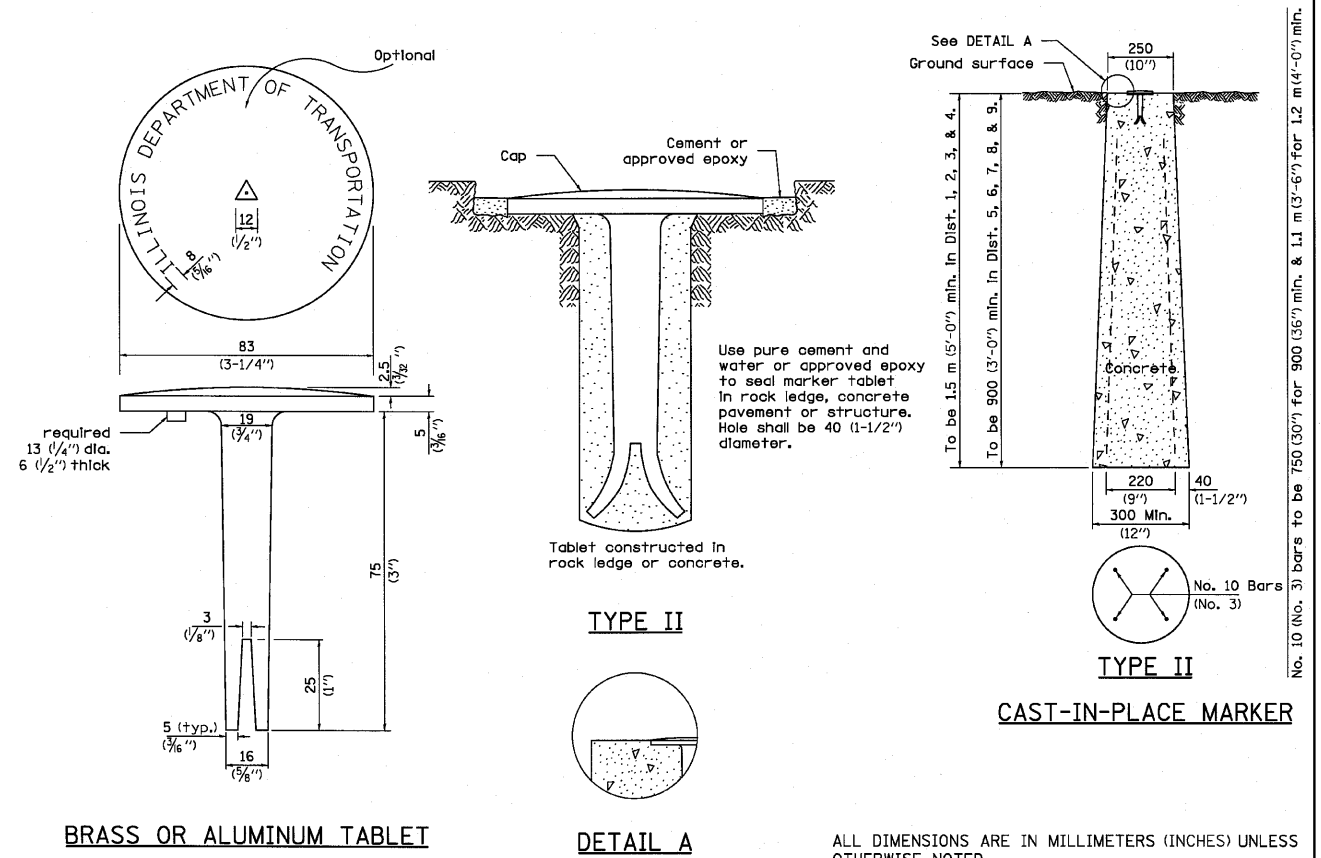


REVISED - 5-03-94

WITNESS MARKER FOR PERMANENT SURVEY MARKERS, TYPE II



PERMANENT SURVEY MARKERS, TYPE II

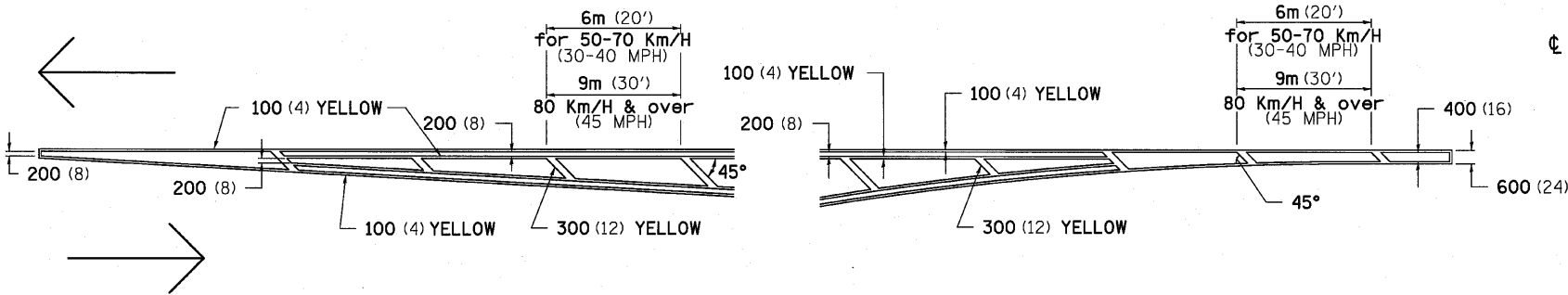


ALL DIMENSIONS ARE IN MILLIMETERS (INCHES) UNLESS OTHERWISE NOTED.

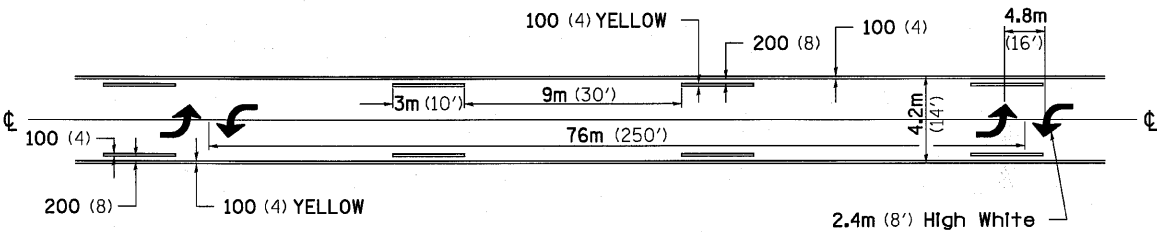
REVISED -	10-21-08	REGION 2 / DISTRICT 2 STANDARD				F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
REVISED -		SCALE:	SHEET NO. OF SHEETS	STA.	TO STA.	646	BBR-1	WHITESIDE	90	72
REVISED -		CONTRACT NO. 84854								
REVISED -		FED. ROAD DIST. NO. 2 ILLINOIS FED. AID PROJECT								

TYPICAL PAVEMENT MARKINGS

TYPICAL PAVEMENT MARKING FOR FLUSH MEDIAN AT LEFT TURN LANE

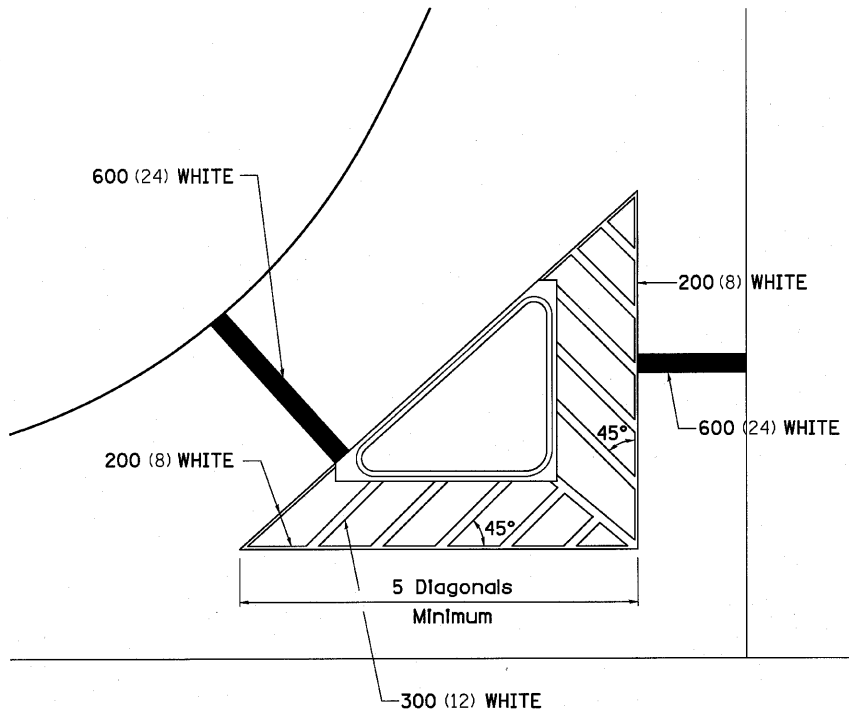


MEDIAN PAVEMENT MARKING

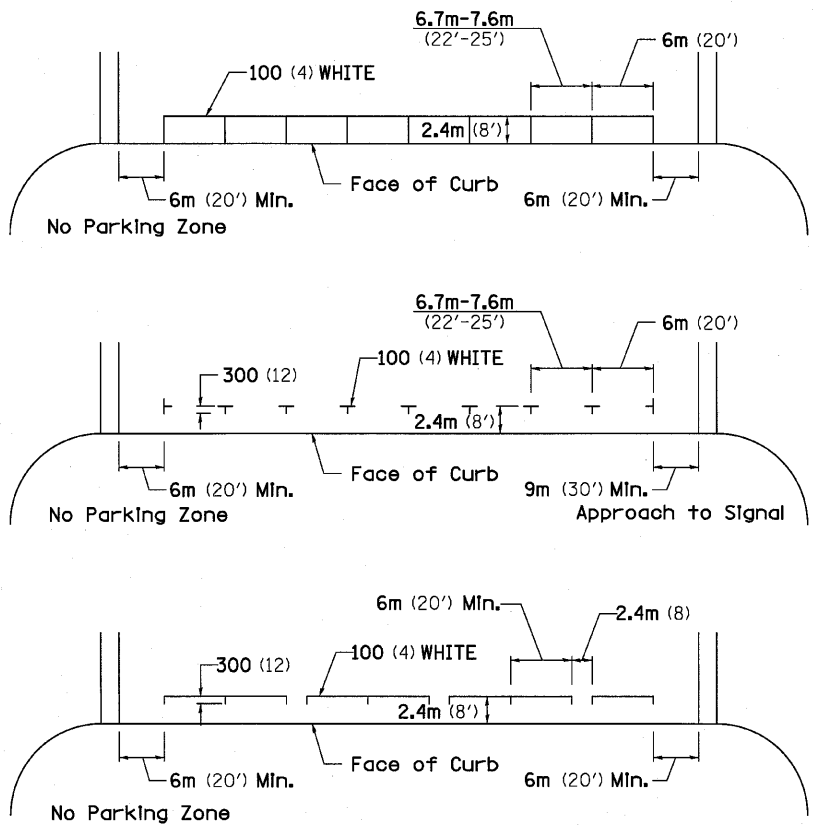


** ALL DIMENSIONS ARE IN MILLIMETERS (INCHES) UNLESS OTHERWISE NOTED.

TYPICAL ISLAND OFFSET SHOULDER WIDTH

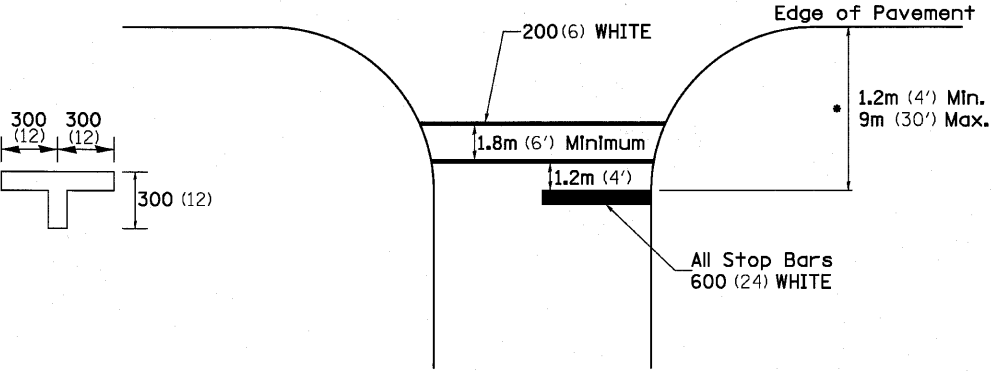


TYPICAL PARKING SPACING



STANDARD CROSSWALK MARKING

See Schedules for Locations

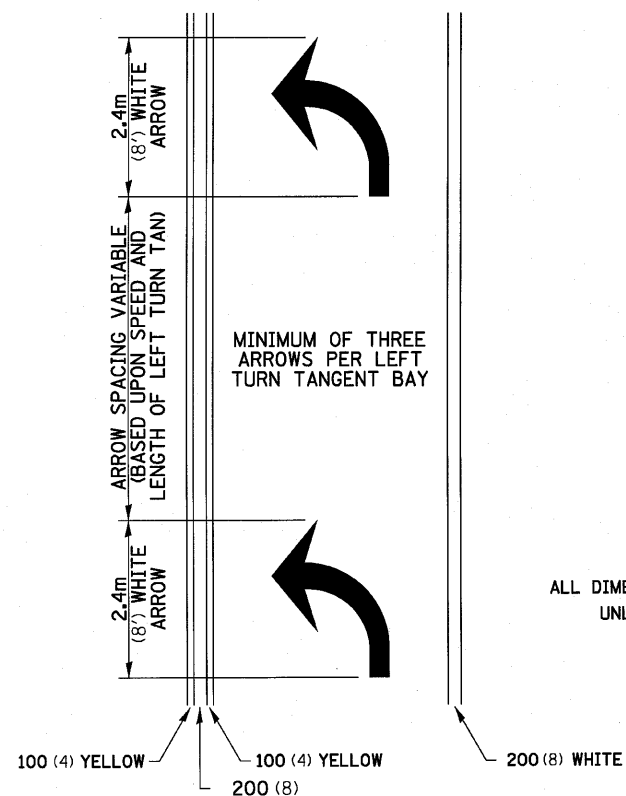


• Distance to the nearest edge of the intersecting roadway in the absence of a marked crosswalk.

FILE NAME =	USER NAME = #USER#	DESIGNED -	REVISED - 10-21-08	STATE OF ILLINOIS DEPARTMENT OF TRANSPORTATION	REGION 2 / DISTRICT 2 STANDARD	F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
PROJECT = WEST Projects\2009\124100.W09	USER = L40\Civil\Dgn\Sh\0284854-sh1-D2Std4.dgn	DRAWN -	REVISED -			646	8BR-1	WHITESIDE	90	73
PLOT SCALE =	CHECKED -	REVISED -	REVISED -			CONTRACT NO. 84854				
PLOT DATE = 8/2/2010	DATE -	REVISED -	REVISED -			FED. ROAD DIST. NO. 2 [ILLINOIS] FED. AID PROJECT				

TYPICAL PAVEMENT MARKINGS

ARROW LAYOUT

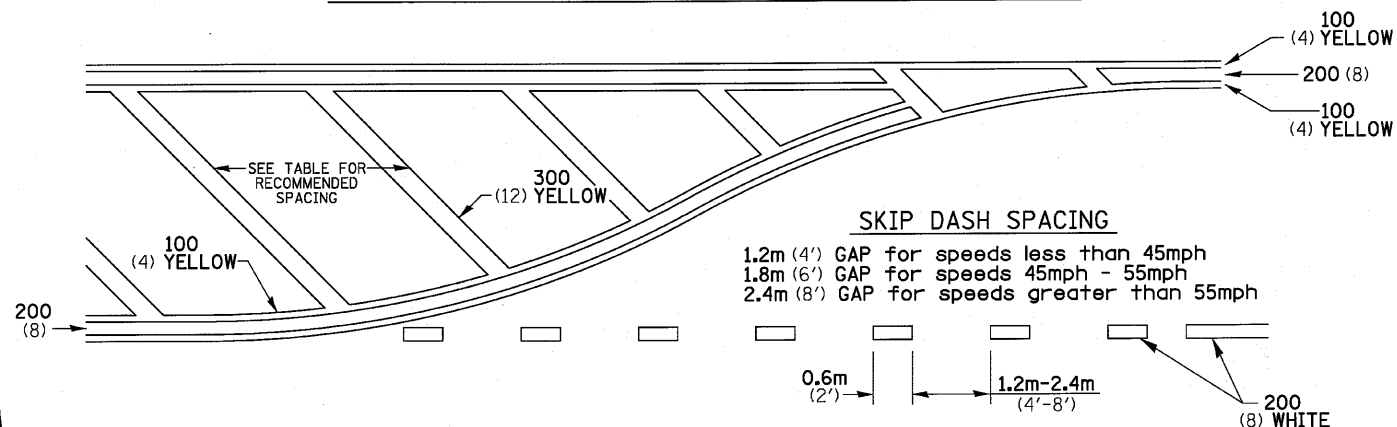


12.2m
6 at (40') O.C.
APPROACH SIDE ONLY

See Typical Drawing at right

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

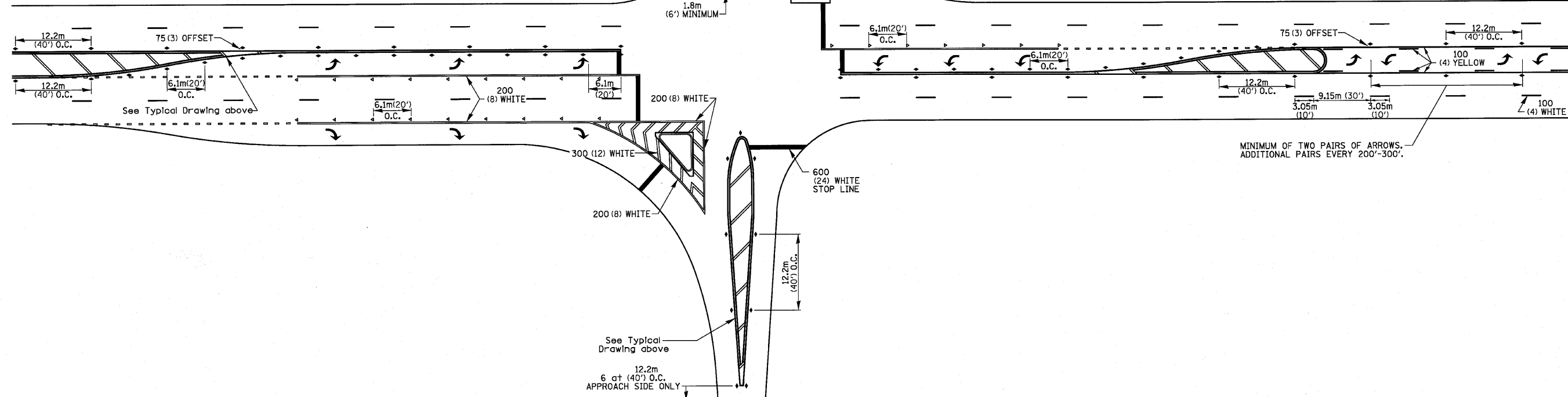
TYPICAL PAVEMENT MARKING FOR FLUSH MEDIAN



RECOMMENDED SPACING BETWEEN DIAGONALS (IN FEET)

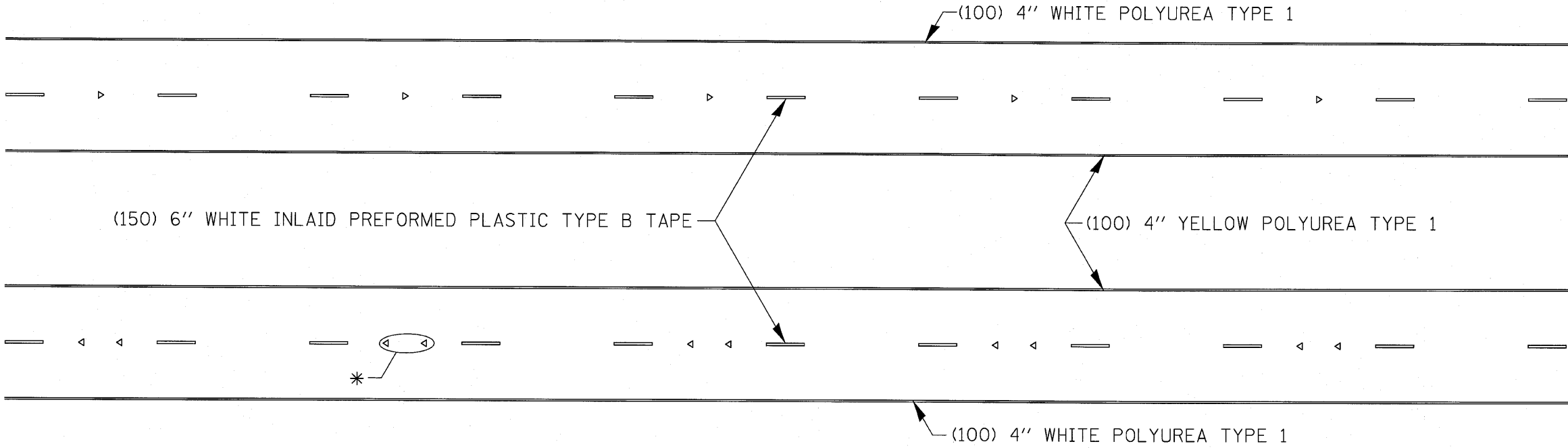
Speed Limit Range	Continuous Median Area	Intersection Channelization	Objects (Islands)
less than 50Km/H (30MPH)	15.3m (50')	4.53m (15')	3.05m (10')
50-60Km/H (30-40MPH)	22.9m (75')	6.1m (20')	4.53m (15')
70Km/H (45MPH) & over	22.9m (75')	9.05m (30')	6.1m (20')

NOTE: If the spacing recommended in the Table does not permit at least five diagonal lines in the area being marked, the spacing from the next lowest speed range should be used. The recommended spacing is measured parallel to the pavement center line.



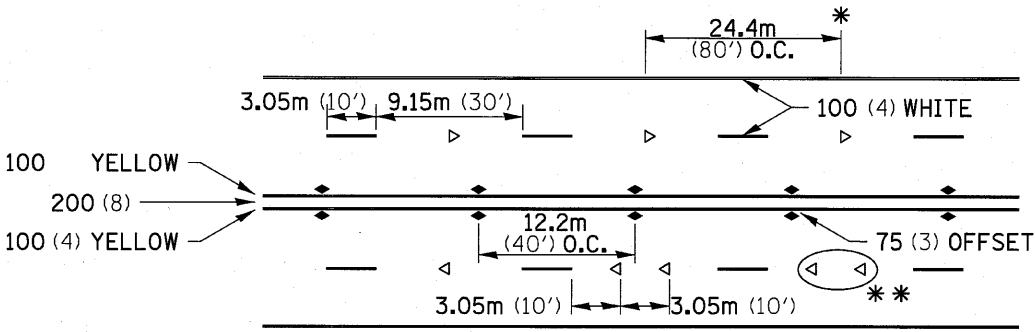
FILE NAME =	USER NAME = #USER#	DESIGNED -	REVISED - 10-21-08	STATE OF ILLINOIS DEPARTMENT OF TRANSPORTATION	REGION 2 / DISTRICT 2 STANDARD	F.A.P. RTE. 646	SECTION 8BR-1	COUNTY WHITESIDE	TOTAL SHEETS 90	SHEET NO. 74	
P:\CBBEL WEST Projects\2009\124100.W09	L:\40\Civil\1\Drawings\Sheets\0284854-sht-D25tds5.dgn	DRAWN -	REVISED -			SCALE:	SHEET NO. OF SHEETS STA. TO STA.	CONTRACT NO. 84854			
		CHECKED -	REVISED -			FED. ROAD DIST. NO. 2 [ILLINOIS] FED. AID PROJECT					
		DATE - 8/2/2010	REVISED -								

TYPICAL PAVEMENT MARKINGS



* SEE HIGHWAY STANDARD 781001 FOR SPACING DETAILS.
USE DOUBLE MARKERS WHEN ADT ≥ 25,000.

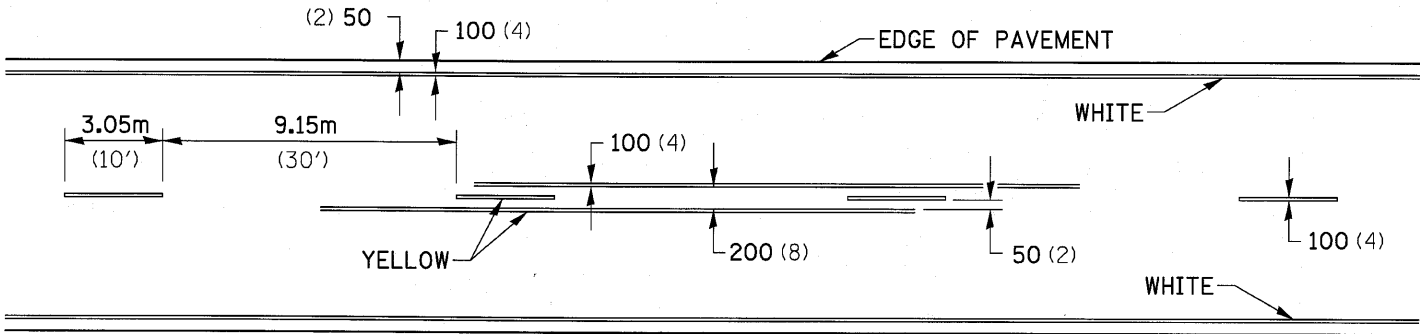
MULTI-LANE / DIVIDED



* REDUCE TO 12.2m (40') O.C. ON CURVES WHERE ADVISORY SPEEDS ARE 15Km/H (10MPH) LOWER THAN POSTED SPEEDS.
** USE DOUBLE MARKERS WHEN ADT ≥ 25,000

MULTI-LANE / UNDIVIDED

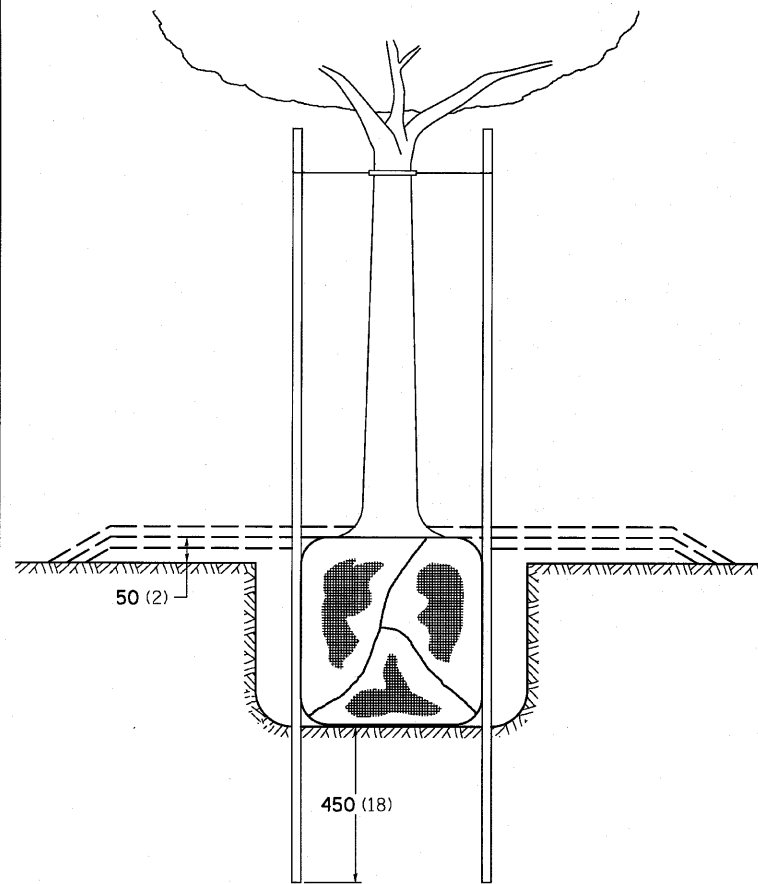
TYPICAL PAVEMENT MARKING FOR TWO LANE SECTION – NO PASSING ZONES



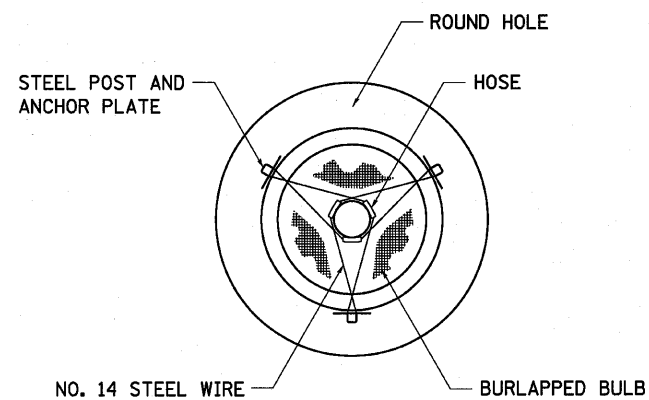
SYMBOLS

FILE NAME =	USER NAME = #USER#	DESIGNED -	REVISED - 10-21-08	STATE OF ILLINOIS DEPARTMENT OF TRANSPORTATION	REGION 2 / DISTRICT 2 STANDARD	F.A.P. RTE. 646	SECTION 88R-1	COUNTY WHITESIDE	TOTAL SHEETS 90	SHEET NO. 75		
P:\CBBEL WEST Projects\2009\124102_W09	L48\Civil\Drawings\10\1024854-shr-D2Std6.dgn	DRAWN -	REVISED -			SCALE:	SHEET NO. OF SHEETS	STA. TO STA.	CONTRACT NO. 84854			
		CHECKED -	REVISED -			FED. ROAD DIST. NO. 2 ILLINOIS FED. AID PROJECT						
		DATE -	REVISED -									

DETAILS OF PLANTING AND BRACING TREES

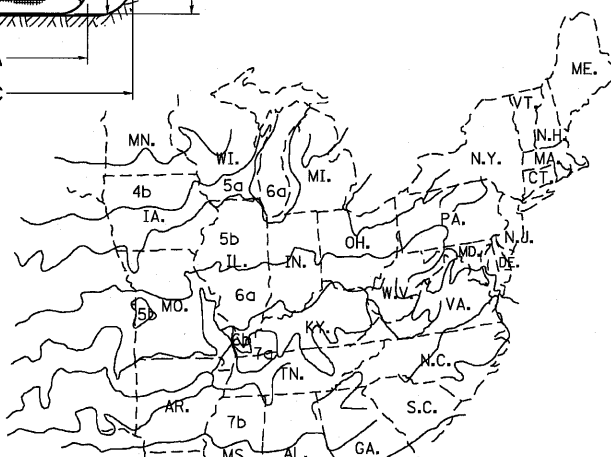
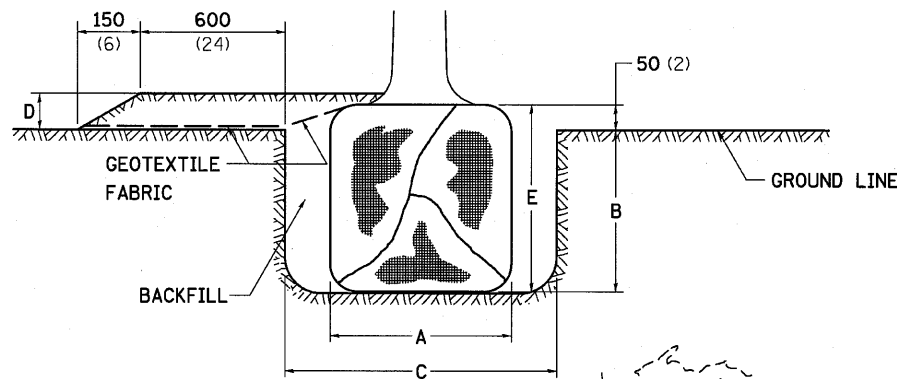


TREES SMALLER THAN 115 (4 1/2) IN DIAMETER



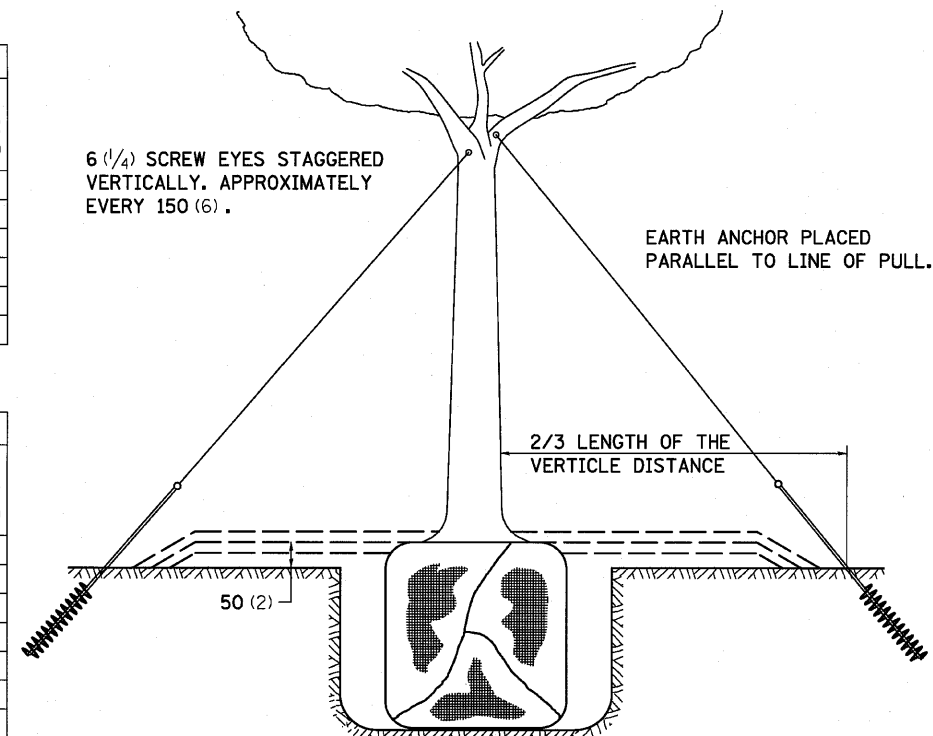
SMALL	A	B	C	D	E	F
TREE SIZE	DIAMETER OF BALL OR ROOT SYS.	DEPTH OF HOLE EXCAVATION	WIDTH OF HOLE EXCAVATION	THICKNESS OF MULCH COVER	DEPTH OF BALL OR ROOT SYS.	VOLUME OF MULCH COVER m ³ (CU. YDS.)
1.5-1.8m (5'-6')	400 (16)	250 (10)	750 (30)	100 (4)	300 (12)	0.41 (0.54)
1.5-1.8m (5'-6') BB	400 (16)	250 (10)	750 (30)	100 (4)	300 (12)	0.41 (0.54)
1.8-2.0m (6'-7') BB	450 (18)	300 (12)	750 (30)	100 (4)	350 (14)	0.41 (0.54)
2.0-2.4m (7'-8') BB	500 (20)	275 (11)	750 (30)	100 (4)	325 (13)	0.41 (0.54)
2.4-3.0m (8'-10') BB	600 (24)	350 (14)	900 (36)	100 (4)	400 (16)	0.47 (0.61)
3.0-3.6m (10'-12') BB	650 (26)	375 (15)	900 (36)	100 (4)	425 (17)	0.47 (0.61)

LARGE	A	B	C	D	E	F
TREE SIZE	DIAMETER OF BALL OR ROOT SYS.	DEPTH OF HOLE EXCAVATION	WIDTH OF HOLE EXCAVATION	THICKNESS OF MULCH COVER	DEPTH OF BALL OR ROOT SYS.	VOLUME OF MULCH COVER m ³ (CU. YDS.)
0-50 (0-2)	500 (20)	275 (11)	900 (36)	100 (4)	325 (13)	0.47 (0.61)
50-65 (2-2 1/2) BB	600 (24)	350 (14)	1200 (48)	100 (4)	400 (16)	0.60 (0.78)
65-75 (2 1/2-3) BB	700 (28)	425 (17)	1200 (48)	100 (4)	475 (19)	0.60 (0.78)
75-90 (3-3 1/2) BB	800 (32)	425 (17)	1500 (60)	100 (4)	475 (19)	0.73 (0.96)
90-100 (3 1/2-4) BB	900 (36)	500 (20)	1500 (60)	100 (4)	550 (22)	0.73 (0.96)
100-115 (4-4 1/2) BB	1000 (40)	550 (22)	1800 (72)	100 (4)	600 (24)	0.89 (1.16)
115-125 (4 1/2-5) BB	1100 (44)	600 (24)	1800 (72)	100 (4)	650 (26)	0.89 (1.16)
125-140 (5-5 1/2) BB	1200 (48)	675 (27)	2100 (84)	100 (4)	725 (29)	1.06 (1.38)

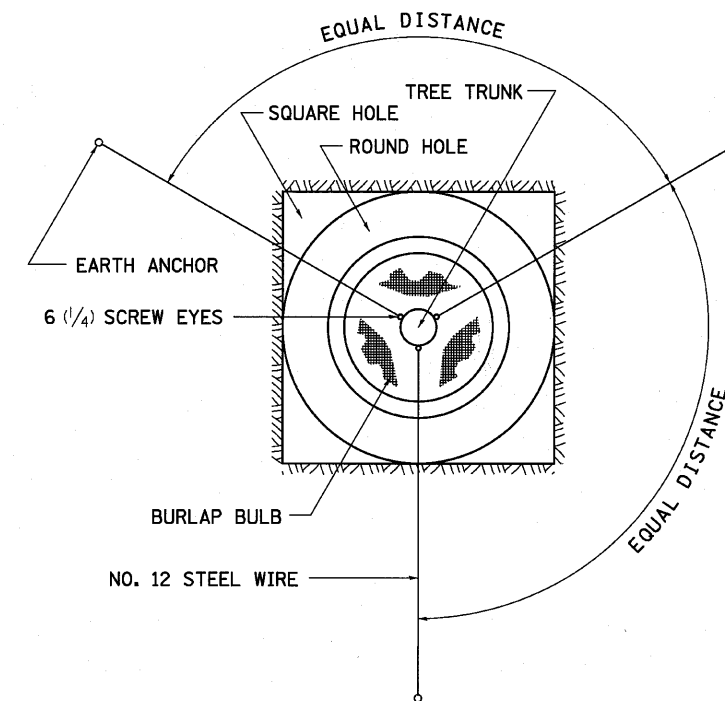


PLANT HARDINESS ZONE MAP

U.S. DEPARTMENT OF AGRICULTURE
AGRICULTURAL RESEARCH SERVICE
PUBLICATION NO. 814



TREES OVER 115 (4 1/2) IN DIAMETER



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

FILE NAME =	USER NAME = #USER#	DESIGNED -	REVISED - 10-15-04
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PLOT SCALE =	CHECKED -	REVISED -	REVISED -
PLOT DATE = 8/2/2010	DATE -	REVISED -	REVISED -

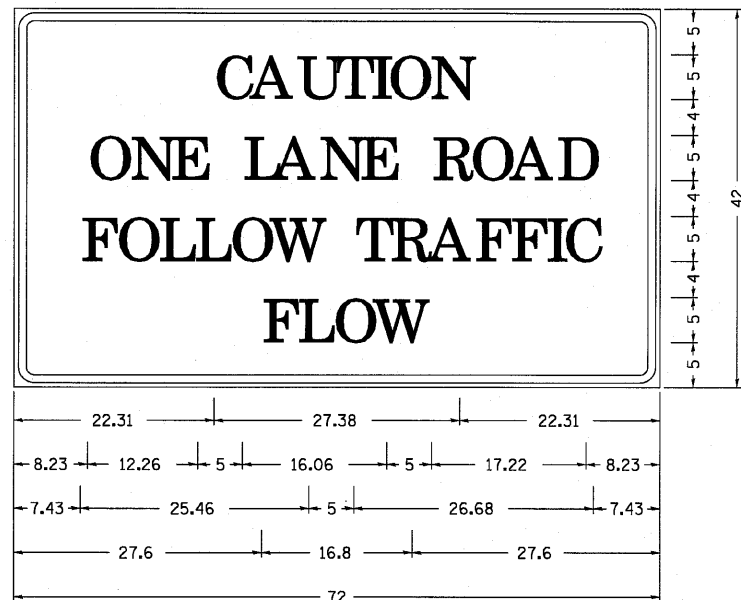
STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

REGION 2 / DISTRICT 2 STANDARD

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

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
646	BBR-1	WHITESIDE	90	76
FED. ROAD DIST. NO. 2 ILLINOIS FED. AID PROJECT			CONTRACT NO. 84854	

ENTRANCE SIGN FOR USE WITH TEMPORARY SIGNALS



Type AA Fluorescent Orange Sheeting ;
 2.25" Radius, 0.88" Border, 0.50" Indent, Black on Orange;
 [CAUTION] D; [ONE LANE ROAD] D;
 [FOLLOW TRAFFIC] D; [FLOW] D

Table Of Widths And Spaces

22.31	C	3.36	0.62	A	4.18	0.94	U	3.36	0.94	T	3.04	0.94	I	0.78	1.17	O	3.52	1.17	N	3.36	22.31
8.23	O	3.51	1.17	N	3.36	1.18	E	3.04													
	L	3.05	0.31	A	4.18	0.94	N	3.36	1.17	E	3.05										
	R	3.36	0.93	O	3.52	0.94	A	4.18	0.93	D	3.36	8.23									
7.43	F	3.04	0.94	O	3.52	1.17	L	3.04	0.94	L	3.05	0.94	O	3.51	0.94	W	4.37				
	T	3.05	0.94	R	3.36	0.94	A	4.18	0.93	F	3.05	0.94	F	3.04	0.94	I	0.78	1.18	C	3.35	7.43
27.60	F	3.05	0.94	L	3.04	0.94	O	3.52	0.93	W	4.38	27.60									

GENERAL NOTES

THIS SIGN SHALL BE INSTALLED AT ENTRANCES LOCATED BETWEEN THE TEMPORARY SIGNALS AS DIRECTED BY THE ENGINEER.

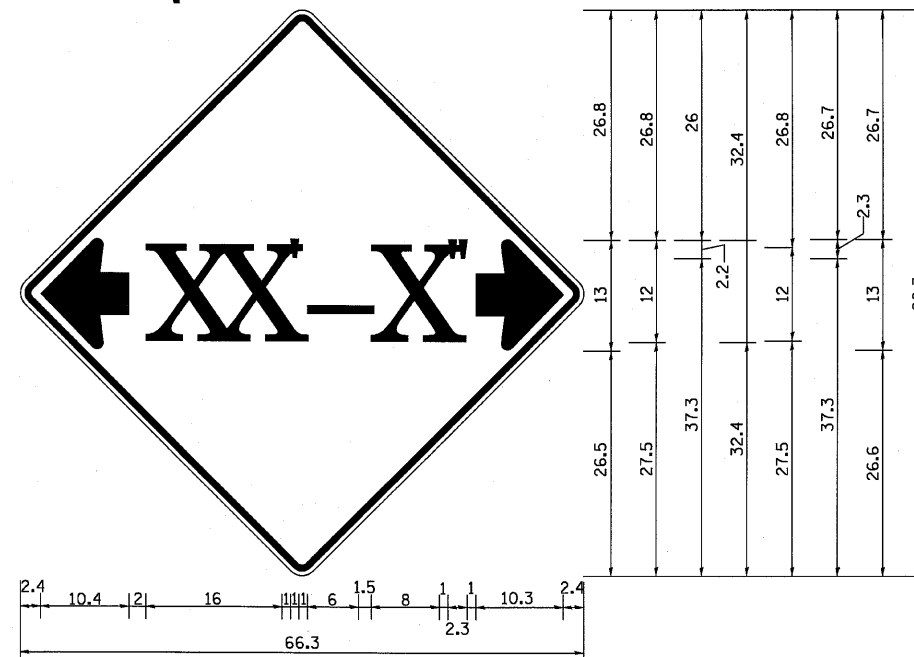
ALL DIMENSIONS ARE IN INCHES UNLESS OTHERWISE NOTED.

THE COST TO FURNISH, INSTALL AND REMOVE THIS SIGN AT THE REQUIRED LOCATIONS SHALL BE INCLUDED IN THE COST OF TRAFFIC CONTROL AND PROTECTION STANDARD 701321.

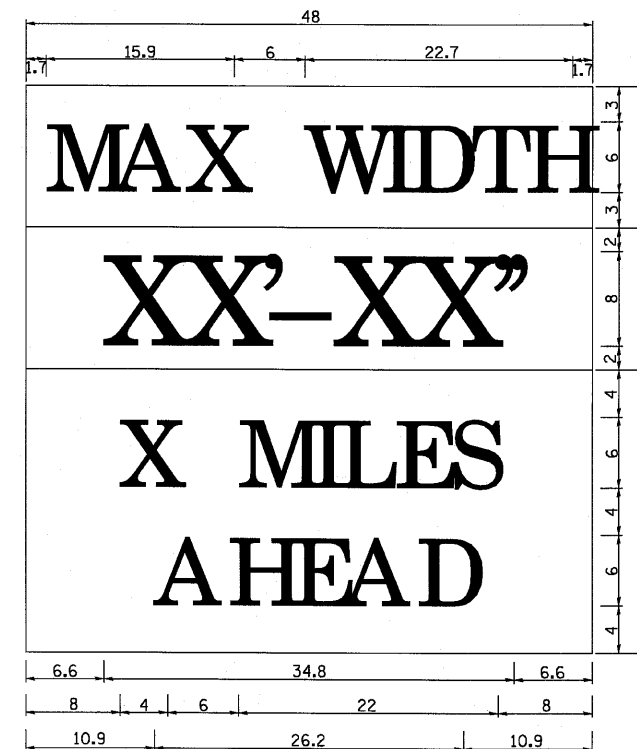
ALL DIMENSIONS ARE IN MILLIMETERS (INCHES) UNLESS OTHERWISE NOTED.

REVISED - 10-28-05

INFORMATIONAL WARNING SIGN (FOR NARROW TRAVEL LANES)



NOTES
 W12-2 - Horizontal Clearance Sign
 48.0" across sides, 1.9" Radius,
 0.8" Border, 0.5" Indent, Black on
 Orange; Standard Arrow Custom
 10.4" X 8.1" 180° Black 11 Inch
 D Series Lettering; Standard Arrow
 Custom 10.4" X 8.1" 0°



W12-I103 (Width Is 8D);
 No border, Black on White;
 [MAX WIDTH] D;

No border, Black on Orange;
 [XX'-XX"] D;

No border, Black on White;
 [X MILES] D; [AHEAD] D;

All work to furnish and install these signs shall be included in the cost of the Traffic Control Standards and shall not be paid for separately.

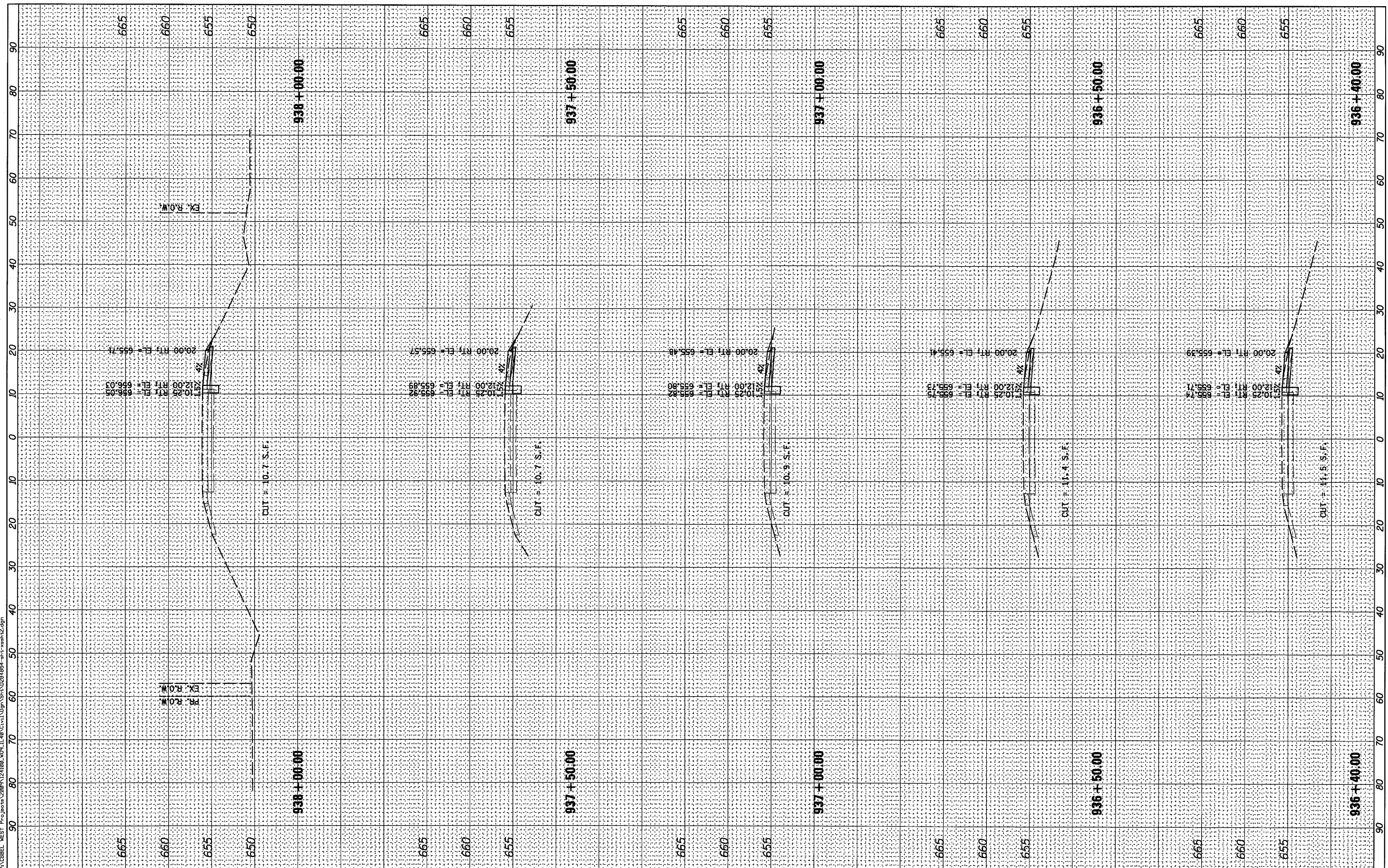
ALL DIMENSIONS ARE IN INCHES UNLESS OTHERWISE NOTED.

REVISED -	REGION 2 / DISTRICT 2 STANDARD	F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.	
REVISED -		646	8BR-1	WHITESIDE	90	77	
REVISED -		CONTRACT NO. 84854					
REVISED -		FED. ROAD DIST. NO. 2 [ILLINOIS] FED. AID PROJECT					
REVISED -	SCALE:	SHEET NO. OF SHEETS	STA.	TO STA.			

FINAL SURVEY	BY	DATE
SURVEYED		
TEMPLATE		
AREAS		
CHECKED		
NO.		

ORIGINAL SURVEY	BY	DATE
SURVEYED		
TEMPLATE		
AREAS		
CHECKED		
NO.		

FILE NAME = P:\CBBEL_MEST_Proj\pers\220809\12\IBR_936-938.dgn



WBK WILLS BURKE KELSEY ASSOCIATES LTD.
 118 West Main Street, Suite 201
 St. Charles, Illinois 60174
 (830) 443-7756

USER NAME = #USER#	DESIGNED - KMA	REVISED -
PLOT SCALE = 1"=10'H, 1"=5'V	DRAWN - KMA	REVISED -
PLOT DATE = 8/2/2010	CHECKED - PJF	REVISED -
	DATE - 8/6/10	REVISED -

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

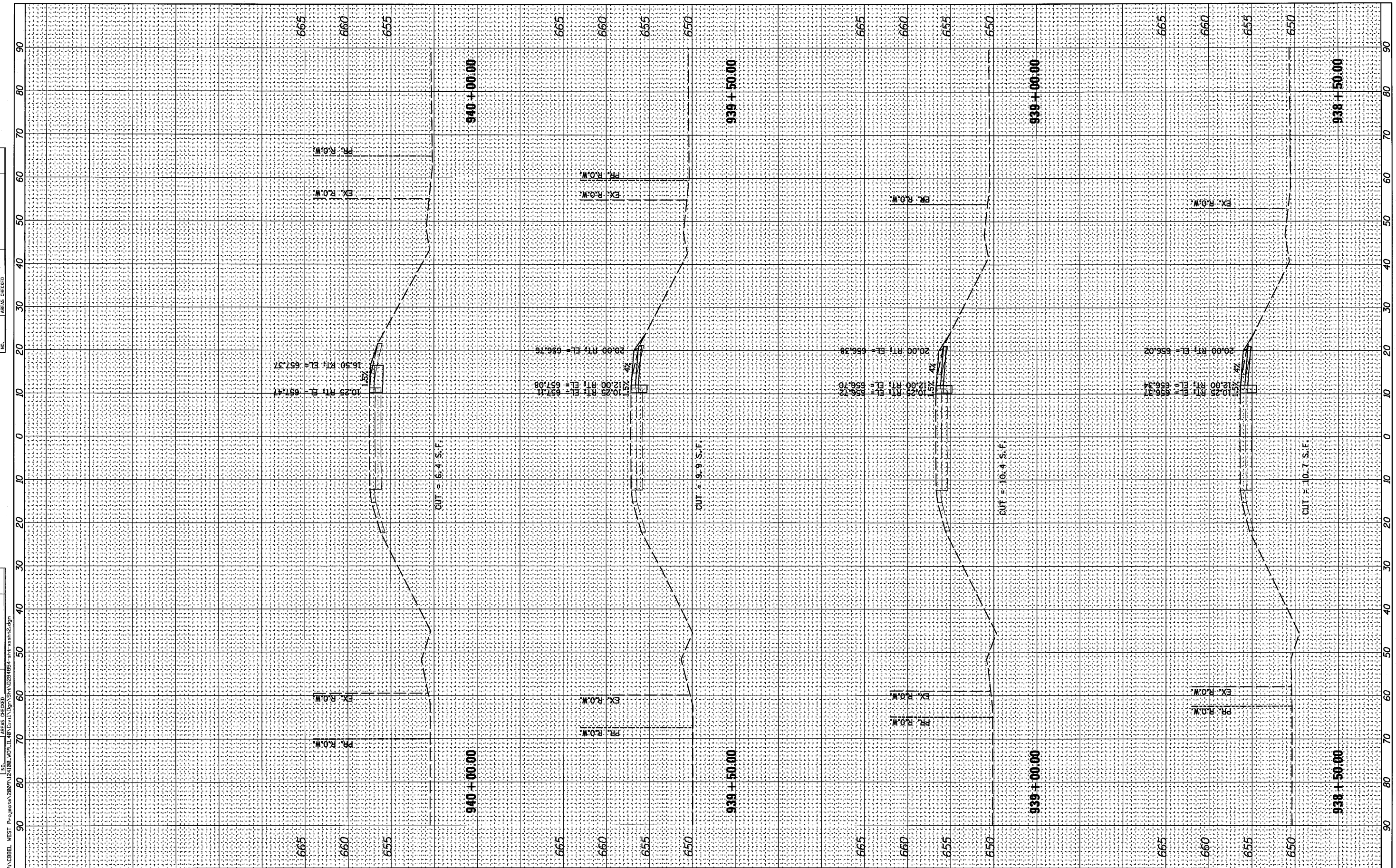
CROSS SECTIONS - STAGE 1
ILLINOIS ROUTE 40 OVER ELKHORN CREEK

SCALE: 1"=10'H, 1"=5'V SHEET NO. OF 90 SHEETS STA. 936+40.00 TO STA. 938+00.00

F.A.P. RTE. 646	SECTION 8BR-1	COUNTY WHITESIDE	TOTAL SHEETS 90	SHEET NO. 78
FED. ROAD DIST. NO. 2 ILLINOIS FED. AID PROJECT			CONTRACT NO. 84854	

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

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



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USER NAME = #USER#	DESIGNED - KMA	REVISED -
PLLOT SCALE = 1"=10'H, 1"=5'V	DRAWN - KMA	REVISED -
PLLOT DATE = 8/2/2010	CHECKED - PJF	REVISED -
	DATE - 8/6/10	REVISED -

**STATE OF ILLINOIS
 DEPARTMENT OF TRANSPORTATION**

**CROSS SECTIONS - STAGE 1
 ILLINOIS ROUTE 40 OVER ELKHORN CREEK**

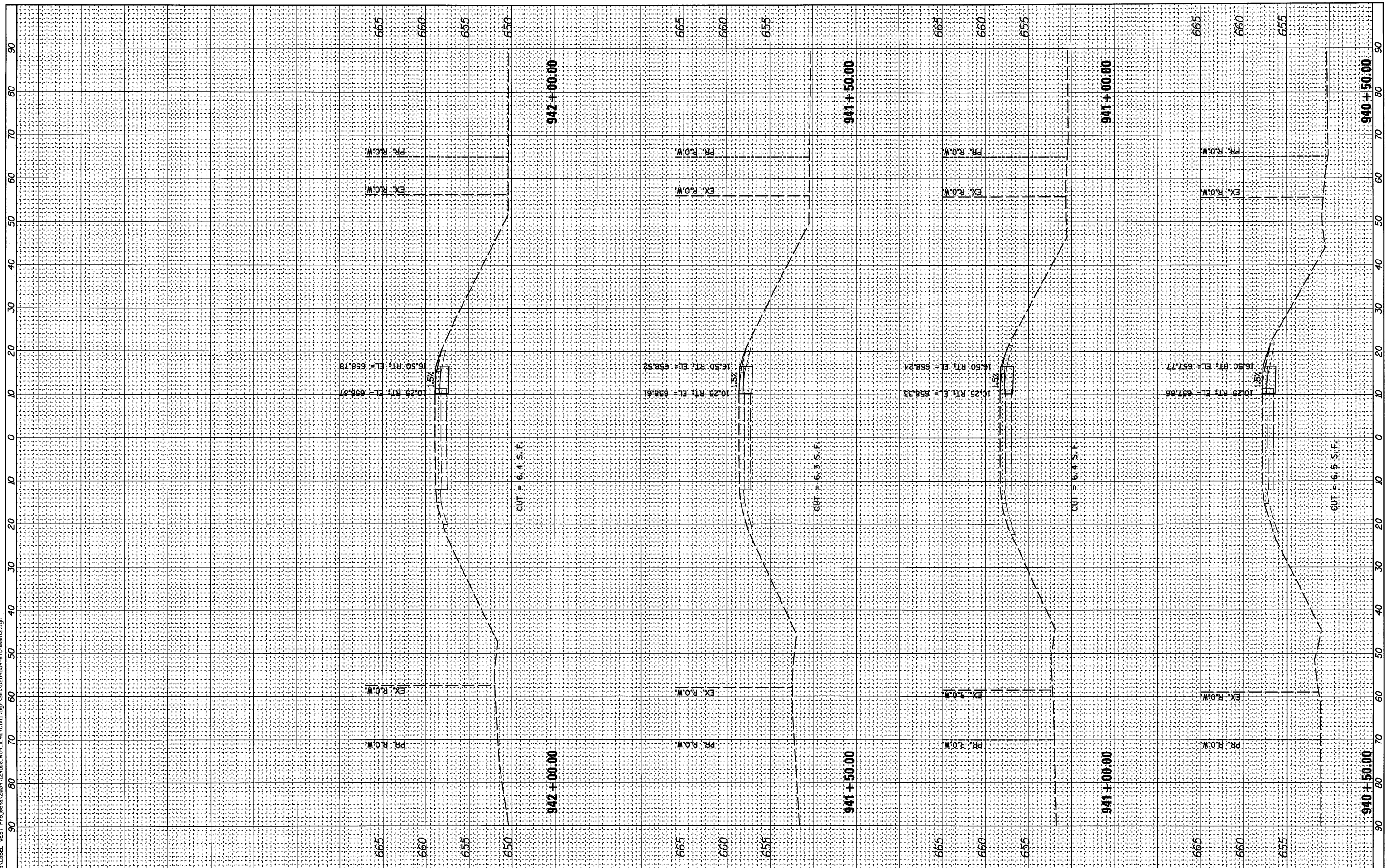
SCALE: 1"=10'H, 1"=5'V SHEET NO. OF 90 SHEETS STA. 938+50.00 TO STA. 940+00.00

F.A.P. RTE. 646	SECTION 8BR-1	COUNTY WHITESIDE	TOTAL SHEETS 90	SHEET NO. 79
FED. ROAD DIST. NO. 2 ILLINOIS FED. AID PROJECT			CONTRACT NO. 84854	

DATE	
BY	
REVISIONS	
NO.	
FINAL SURVEY	
NOTE BOOK	
AREAS CHECKED	

DATE	
BY	
REVISIONS	
NO.	
ORIGINAL SURVEY	
NOTE BOOK	
AREAS CHECKED	

FILE NAME = P:\CIRBEL WEST Projects\2009\1212100_W09 IL 40 OVER ELKHORN CREEK\SHA\10284854.dwg



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USER NAME = #USER#	DESIGNED - KMA	REVISED -
PLOT SCALE = 1"=10'H, 1"=5'V	DRAWN - KMA	REVISED -
PLOT DATE = 8/2/2010	CHECKED - PJF	REVISED -
	DATE - 8/6/10	REVISED -

**STATE OF ILLINOIS
 DEPARTMENT OF TRANSPORTATION**

**CROSS SECTIONS - STAGE 1
 ILLINOIS ROUTE 40 OVER ELKHORN CREEK**

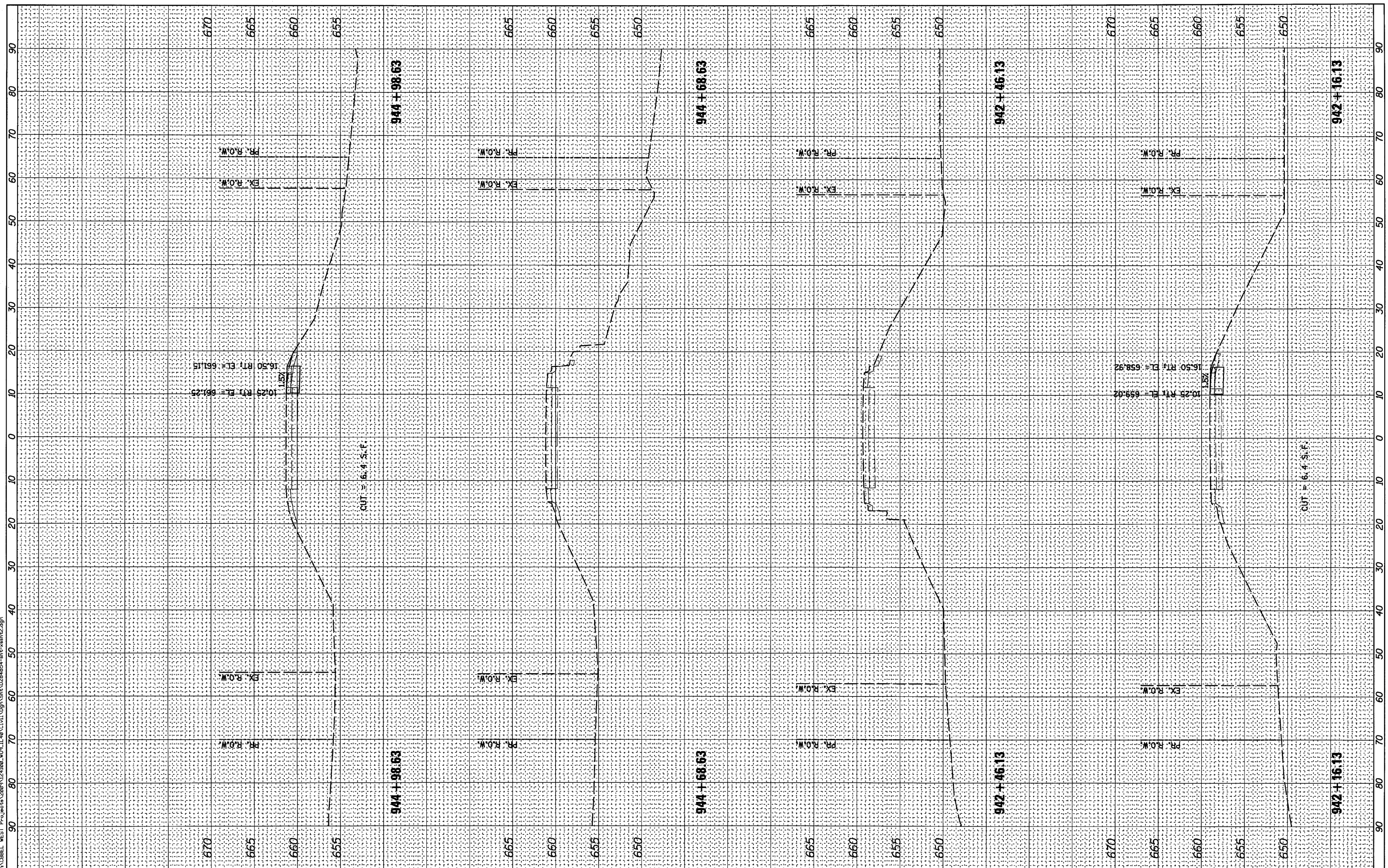
SCALE: 1"=10'H, 1"=5'V SHEET NO. OF 90 SHEETS STA. 940+50.00 TO STA. 942+00.00

F.A.P. RTE. 646	SECTION 8BR-1	COUNTY WHITESIDE	TOTAL SHEETS 90	SHEET NO. 80
CONTRACT NO. 84854				
FED. ROAD DIST. NO. 2 ILLINOIS FED. AID PROJECT				

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

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

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USER NAME = #USER*	DESIGNED - KMA	REVISED -
PLOT SCALE = 1"=10'H, 1"=5'V	DRAWN - KMA	REVISED -
PLOT DATE = 8/2/2010	CHECKED - PJF	REVISED -
	DATE - 8/6/10	REVISED -

**STATE OF ILLINOIS
 DEPARTMENT OF TRANSPORTATION**

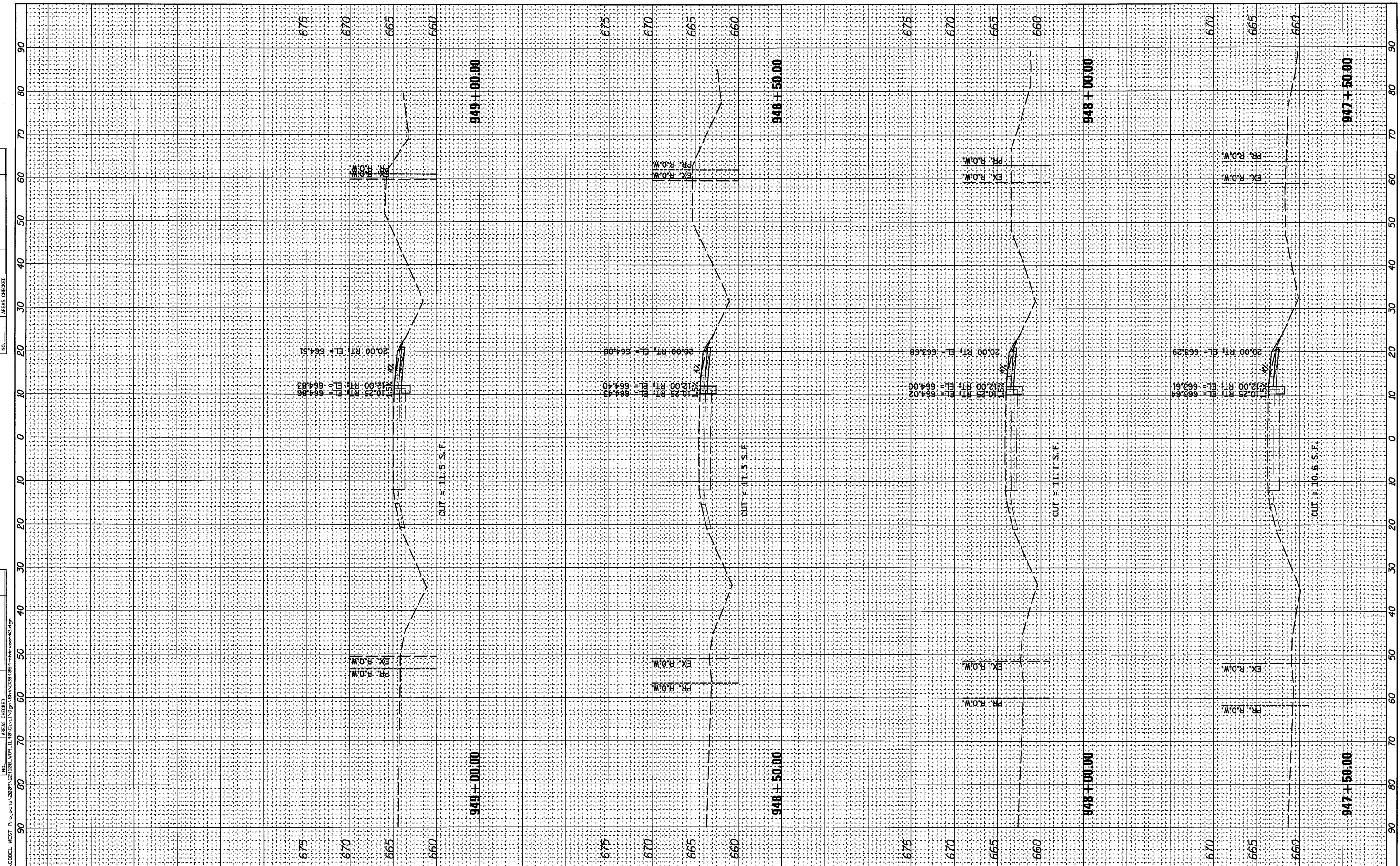
**CROSS SECTIONS - STAGE 1
 ILLINOIS ROUTE 40 OVER ELKHORN CREEK**

SCALE: 1"=10'H, 1"=5'V SHEET NO. OF 90 SHEETS STA. 942+16.13 TO STA. 944+98.63

F.A.P. RTE. 646	SECTION 8BR-1	COUNTY WHITESIDE	TOTAL SHEETS 90	SHEET NO. 81
CONTRACT NO. 84854			ILLINOIS FED. AID PROJECT	

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

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



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USER NAME = #USER*	DESIGNED - KMA	REVISED -
PLOT SCALE = 1"=10'H, 1"=5'V	DRAWN - KMA	REVISED -
PLOT DATE = 8/2/2010	CHECKED - PJF	REVISED -
	DATE - 8/6/10	REVISED -

**STATE OF ILLINOIS
 DEPARTMENT OF TRANSPORTATION**

**CROSS SECTIONS - STAGE 1
 ILLINOIS ROUTE 40 OVER ELKHORN CREEK**

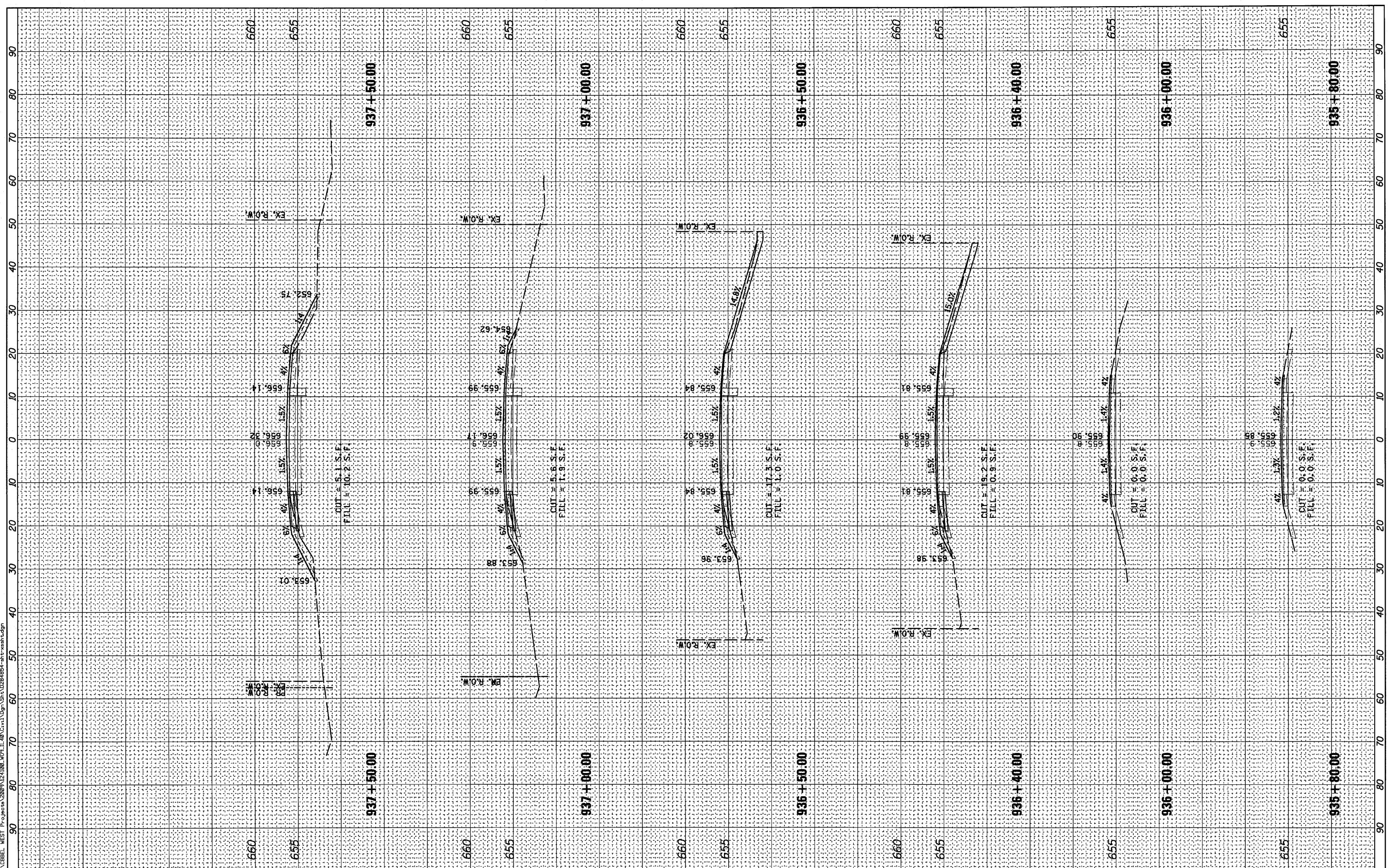
SCALE: 1"=10'H, 1"=5'V SHEET NO. OF 90 SHEETS STA. 947+50.00 TO STA. 949+00.00

F.A.P. RTE. 646	SECTION 8BR-1	COUNTY WHITESIDE	TOTAL SHEETS 90	SHEET NO. 83
			CONTRACT NO. 84854	
FED. ROAD DIST. NO. 2 ILLINOIS FED. AID PROJECT				

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

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

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USER NAME = *USER*	DESIGNED - KMA	REVISED -
PLOT SCALE = 1"=10'H, 1"=5'V	DRAWN - KMA	REVISED -
PLOT DATE = 8/2/2010	CHECKED - PJF	REVISED -
	DATE - 8/6/10	REVISED -

**STATE OF ILLINOIS
 DEPARTMENT OF TRANSPORTATION**

**CROSS SECTIONS
 ILLINOIS ROUTE 40 OVER ELKHORN CREEK**

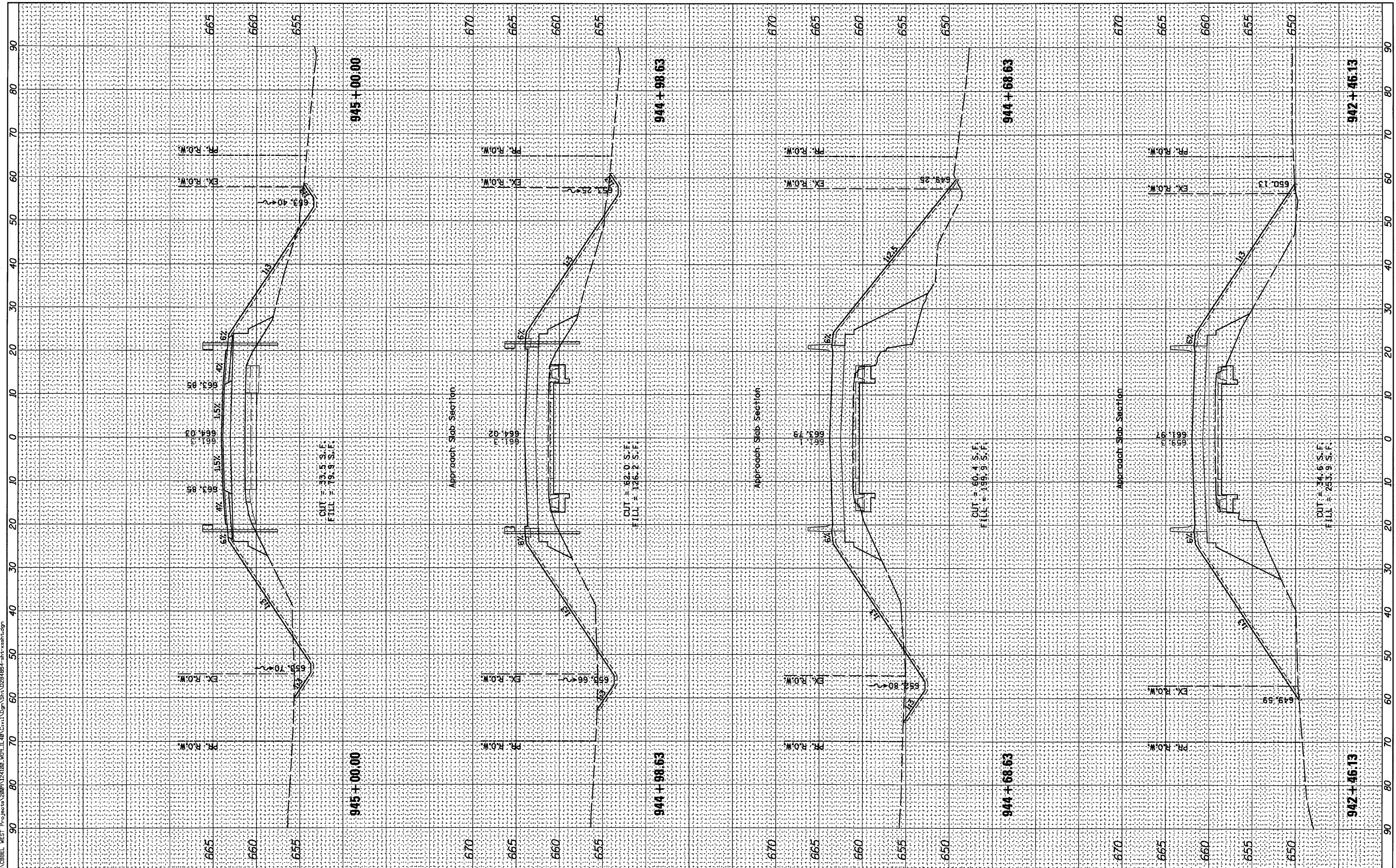
SCALE: 1"=10'H, 1"=5'V SHEET NO. OF 90 SHEETS STA. 935+80.00 TO STA. 937+50.00

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
646	8BR-1	WHITESIDE	90	85
			CONTRACT NO. 84854	
FED. ROAD DIST. NO. 2 ILLINOIS FED. AID PROJECT				

FINAL SURVEY	BY	DATE
SURVEYED		
NOTE BOOK		
TEMPLATE		
AREAS CHECKED		
AREAS CHECKED		

ORIGINAL SURVEY	BY	DATE
SURVEYED		
NOTE BOOK		
TEMPLATE		
AREAS CHECKED		
AREAS CHECKED		

FILE NAME = P:\CBBEL WEST Projects\2889\2889\2889_10711111.dwg USER = KMA DATE = 8/2/2018



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USER NAME = #USER#	DESIGNED - KMA	REVISED -
PLOT SCALE = 1"=10'H, 1"=5'V	DRAWN - KMA	REVISED -
PLOT DATE = 8/2/2018	CHECKED - PJF	REVISED -
	DATE - 8/6/10	REVISED -

**STATE OF ILLINOIS
 DEPARTMENT OF TRANSPORTATION**

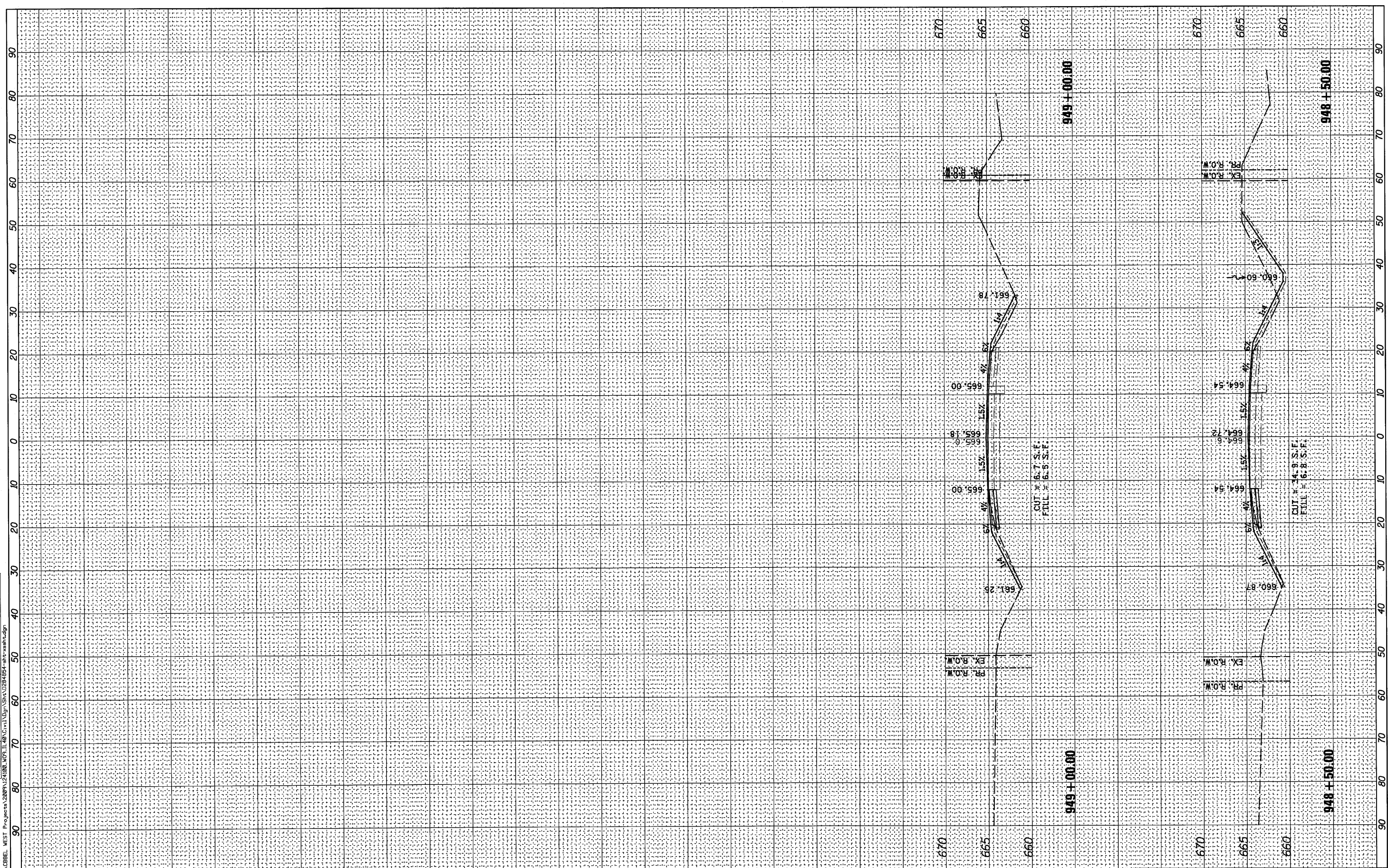
CROSS SECTIONS
ILLINOIS ROUTE 40 OVER ELKHORN CREEK

SCALE: 1"=10'H, 1"=5'V SHEET NO. OF 90 SHEETS STA. 942+46.13 TO STA. 945+00.00

F.A.P. RTE. 646	SECTION 8BR-1	COUNTY WHITESIDE	TOTAL SHEETS 90	SHEET NO. 88
FED. ROAD DIST. NO. 2 [ILLINOIS] FED. AID PROJECT			CONTRACT NO. 84854	

FINAL SURVEY	DATE
SURVEY	BY
NOTE BOOK	
TEMPLATE	
AREAS CHECKED	
AREAS CHECKED	

ORIGINAL SURVEY	DATE
PLOTTED	BY
NOTE BOOK	
TEMPLATE	
AREAS CHECKED	
AREAS CHECKED	



FILE NAME = F:\CBBEL WEST Projects\2009\1241800_W09_IL40\CV1\09m\Shr\A\284854-shr\asht-dgn

WILLS BURKE KELSEY ASSOCIATES LTD.
 116 West Main Street, Suite 201
 St. Charles, Illinois 60174
 (630) 443-7766

USER NAME = #USER#	DESIGNED - KMA	REVISED -
	DRAWN - KMA	REVISED -
	CHECKED - PJF	REVISED -
	DATE - 8/6/10	REVISED -

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

CROSS SECTIONS
ILLINOIS ROUTE 40 OVER ELKHORN CREEK

SCALE: 1"=10'H, 1"=5'V SHEET NO. OF 90 SHEETS STA. 948+50.00 TO STA. 949+00.00

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
646	8BR-1	WHITESIDE	90	90
CONTRACT NO. 84854				
FED. ROAD DIST. NO. 2 [ILLINOIS] FED. AID PROJECT				