64D11-109109

F.A.P RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
17	101BR-4	OGLE	60	1
FED. ROAD DIST. NO.	ILLINOIS	CONTRACT NO. 64D11		

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION
DIVISION OF HIGHWAYS

PROPOSED
HIGHWAY PLANS

FAP ROUTE 17 (IL 64)
SECTION 101BR–4
PROJECT BRF-0017(127)
OGLE COUNTY
BRIDGE REPLACEMENT

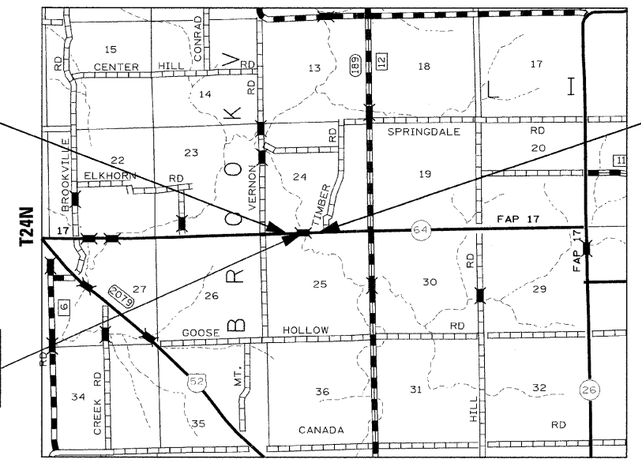
C–92–038–08

D–92–051–07

LOCATION OF SECTION INDICATED THUS: –

IMPROVEMENT BEGINS
STA 120+32.51

IMPROVEMENT ENDS
STA 128+50.00



100′ 200′ 300′ — 1″= 100′
0 10′ 20′ 30′ — 1″= 10′
0 50′ 100′ — 1″= 50′
0 50′ 100′ — 1″= 40′
0 50′ 100′ — 1″= 30′
0 50′ 100′ — 1″= 20′

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

EX. S.N. 071-0013
PROP. S.N. 071-0095
STA. 124+91 20° SKEW
REMOVE EXISTING PPC DECK BEAM BRIDGE AND CONSTRUCT PPC BULB T-BEAM BRIDGE

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

GROSS LENGTH OF PROJECT = 817.49 LIN. FT. = 0.15 MI.
NET LENGTH = 817.49 LIN. FT. = 0.15 MI.

DESIGN DESIGNATION
1,650 (2031) – MINOR ARTERIAL

PROJECT ENGINEER: MASOOD AHMAD
SQUAD LEADER: SAMEER (SAM) A. ABDULLAH
815–284–5935
PROJECT MANAGER: GREGORY R. BRUMM
DLZ ILLINOIS, INC.
847–640–0840

CONTRACT NO. 64D11

BROOKVILLE TOWNSHIP 24 & 25

ROADWAY AND STRUCTURES DESIGNED BY DLZ

STATE OF ILLINOIS — Gregory R. Brumm 062216 — REGISTERED PROFESSIONAL ENGINEER
Gregory R. Brumm
SIGNATURE
11-30-2009
EXPIRES
SEAL

STATE OF ILLINOIS — PETER R. DOMBROWSKI — 6519 — LICENSED STRUCTURAL ENGINEER
Peter R. Dombrowski
SIGNATURE
11-30-2010
EXPIRES
SEAL

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION
DIVISION OF HIGHWAYS

SUBMITTED December 2 20 08
George T. Ryan
DEPUTY DIRECTOR OF HIGHWAYS, REGION ENGINEER
March 27, 20 09
Charles J. Ingersoll
ENGINEER OF DESIGN AND ENVIRONMENT
March 27, 20 09
Christine M. Reed
DIRECTOR OF HIGHWAYS, CHIEF ENGINEER

PRINTED BY THE AUTHORITY OF THE STATE OF ILLINOIS

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

INDEX OF SHEETS

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001001-02	AREAS OF REINFORCEMENT BARS
001006	DECIMAL OF AN INCH AND OF A FOOT
280001-04	TEMPORARY EROSION CONTROL SYSTEMS
420001-07	PAVEMENT JOINTS
421001-02	BAR REINFORCEMENT FOR CRC PAVEMENT
515001-03	NAME PLATE FOR BRIDGES
542401-01	METAL END SECTION FOR PIPE CULVERTS
601101-01	CONCRETE HEADWALL FOR PIPE DRAIN
602306-02	INLET - TYPE B
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635011-02	REFLECTOR MARKER AND MOUNTING DETAILS
666001-01	RIGHT OF WAY MARKERS
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701006-03	OFF-RD OPERATIONS, 2L, 2W, 15' (4.5 m) TO 24" (600 mm) FROM PAVEMENT EDGE
701011-02	OFF-RD MOVING OPERATIONS, 2L, 2W, DAY ONLY
701201-03	LANE CLOSURE, 2L, 2W, DAY ONLY, FOR SPEEDS >= 45 MPH
701301-03	LANE CLOSURE, 2L, 2W, SHORT TIME OPERATIONS
701311-03	LANE CLOSURE 2L, 2W MOVING OPERATIONS-DAY ONLY
701901-01	TRAFFIC CONTROL DEVICES
720011-01	METAL POSTS FOR SIGNS, MARKERS & DELINEATORS
728001-01	TELESCOPING STEEL SIGN SUPPORT
729001-01	APPLICATIONS OF TYPES A & B METAL POSTS (FOR SIGNS & MARKERS)
780001-02	TYPICAL PAVEMENT MARKINGS

GENERAL NOTES

SEE CROSS SECTIONS FOR SPECIAL DITCHES AND BACKSLOPES.

AT THE LOCATIONS WHERE EXCAVATION QUANTITIES ON THE PLANS ARE INDICATED AS HAVING BEEN ESTIMATED, THE ENGINEER WILL OBTAIN ORIGINAL AND FINAL CROSS SECTIONS TO DETERMINE PAY QUANTITIES.

THE REMOVAL OF BITUMINOUS SURFACING NOT ON A RIGID TYPE BASE REMOVED IN CONJUNCTION WITH THE BASE SHALL BE REMOVED AS EARTH EXCAVATION. THE REMOVAL OF BITUMINOUS SURFACING ON A RIGID TYPE BASE REMOVED IN CONJUNCTION WITH THE BASE SHALL BE INCLUDED IN THE CONTRACT UNIT PRICE FOR PAVEMENT REMOVAL OF THE TYPE SPECIFIED.

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.

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 1 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.

THE FOLLOWING MIXTURE REQUIREMENTS ARE APPLICABLE FOR THIS PROJECT:

MIXTURE USES(S):	SURFACE	LEVELING BINDER	TOP SHOULDER	BOTTOM SHOULDER
PG:	PG 64-22	PG 64-22	PG 58-22	PG 58-22
DESIGN AIR VOIDS	4% @ N50	4% @ N50	3% @ N50	2% @ N50
MIXTURE COMPOSITION (GRADATION MIXTURE)	IL 9.5 OR 12.5	IL 9.5	IL 9.5 OR 12.5	BAM
FRICTION AGGREGATE	C	N/A	C	N/A
20 YEAR ESAL	0.36	0.36	N/A	N/A

THE CONTRACTOR WILL BE REQUIRED TO FURNISH 140 MM (5 1/2") HIGH GRASS 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.

REFLECTIVE CRACK CONTROL SHALL BE PLACED ON THE EXISTING SURFACE PRIOR TO ANY RESURFACING. UNLESS PAVEMENT IS MILLED THEN IT WILL BE PLACED ON THE BINDER COURSE.

BITUMINOUS AND AGGREGATE PRIME COAT SHALL BE PLACED IN ACCORDANCE WITH SECTION 406 OF THE STANDARD SPECIFICATIONS. THE COST OF THE PRIME COATS SHALL BE INCLUDED IN THE CONTRACT UNIT PRICE PER METRIC TON (TON) FOR LEVELING BINDER (MACHINE METHOD) OF THE TYPE SPECIFIED OR PER TON FOR HOT-MIX ASPHALT SURFACE COURSE, SPECIAL ON GOOD NEIGHBOR ROUTES.

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 S.N. 071-0095.

THE CONTRACTOR SHALL SUBMIT FOUR COPIES OF THE REQUIRED SHOP DRAWINGS FOR REVIEW AND APPROVAL TO THE BUREAU OF BRIDGES AND STRUCTURES, 2300 SOUTH DIRKSEN PARKWAY, SPRINGFIELD, IL 62764. AFTER APPROVAL OF INITIAL SUBMITTAL, THE CONTRACTOR SHALL SUBMIT ONE SET OF SHOP DRAWINGS TO DAVE LIPPERT, ENGINEER OF MATERIALS, 126 EAST ASH STREET, SPRINGFIELD, IL 62706, AND EIGHT (8) SETS OF SHOP DRAWINGS TO BE DISTRIBUTED TO:

DISTRICT 2 DISTRICT ENGINEER (1)
FABRICATOR (1)
CONTRACTOR (2)
RESIDENT ENGINEER (2)
DISTRICT 2 BUREAU OF MATERIALS (2)

THE THICKNESS FOR THE BRIDGE APPROACH PAVEMENT CONNECTOR (FLEXIBLE) ADJACENT TO EXISTING PAVEMENT SHALL BE A MINIMUM OF 300 MM (12"). THE MATERIAL SHALL BE 50 MM (2") HOT-MIX ASPHALT SURFACE COURSE, AND THE REMAINING THICKNESS SHALL BE HOT-MIX ASPHALT BINDER COURSE.

AT BRIDGE EXPANSION JOINTS, IF TEMPORARY EXPANSION JOINT BULKHEADS ARE ATTACHED TO ADJACENT DECK SLABS OR ABUTMENTS FOR SUPPORT, THE CONTRACTOR SHALL CUT THE ATTACHMENTS AS SOON AS THE CONCRETE HAS SET TO PREVENT JOINT DAMAGE DUE TO HORIZONTAL CONTRACTION OR EXPANSION.

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.

THE PROPOSED PIPES FOR ENTRANCES AND SIDE ROADS SHALL BE PLACED IN LINE WITH THE EXISTING OR PROPOSED DITCH LINE.

CONNECTING BANDS FOR CORRUGATED METAL PIPES SHALL BE METAL AND SHALL BE COATED WITH THE SAME MATERIAL AS THE PIPE SECTIONS. THE CONNECTING BANDS SHALL BE A MINIMUM OF 18" WIDE.

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 1 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 1 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:

1. ALL WORDS, SUCH AS ONLY, SHALL BE 2.4 M (8 FEET) HIGH.
2. ALL NON-FREEWAY ARROWS SHALL BE THE LARGE SIZE.
3. 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.

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.

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:

COMMENWEALTH EDISON COMPANY
VERIZON
FRONTIER/CITIZENS

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 = $FILEL$	USER NAME = $USER$	DESIGNED -	REVISED -
		DRAWN -	REVISED -
	PLOT SCALE = $SCALE$	CHECKED -	REVISED -
	PLOT DATE = $DATE$	DATE -	REVISED -

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

INDEX OF SHEETS, IDOT HIGHWAY STANDARDS, GENERAL NOTES & COMMITMENTS

SCALE: | SHEET NO. 1 OF 2 SHEETS | STA. | TO STA.

F.A.P RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
17	101BR-4	OGLE	60	2
		CONTRACT NO. 64D11		
FED. ROAD DIST. NO.	ILLINOIS	FED. AID PROJECT		

GENERAL NOTES, CONTINUED

THE FOLLOWING ROUTES ARE CONSIDERED GOOD NEIGHBOR ROUTES AND THE DISTRICT GOOD NEIGHBOR POLICY WILL APPLY TO THEM:

FREEPORT ROAD FROM IL 64 TO LANARK
LANARK ROAD FROM OGLE/CARROLL COUNTY LINE TO FREEPORT ROAD
GOOSE HOLLOW ROAD FROM US 52 TO FREEPORT ROAD

THE PAY ITEMS AND QUANTITIES LISTED BELOW (ESTIMATED ON A 5% BASE OF THE TOTAL QUANTITIES) ARE GOING TO BE USED IF NEEDED ON THE ABOVE GOOD NEIGHBOR ROUTES:

HOT- MIX ASPHALT SURFACE COURSE, SPECIAL, 470 TON
AGGREGATE SHOULDERS, TYPE B, 153 TON
AGGREGATE SURFACE COURSE, TYPE A, 9 TON
SHORT-TERM PAVEMENT MARKING, 211 FOOT
WORK ZONE PAVEMENT MARKING REMOVAL, 71 SQ FT
PAINT PAVEMENT MARKING - LINE 4", 4870 FOOT
TRAFFIC CONTROL AND PROTECTION STANDARD 701201, 1 L SUM

TREE REPLACEMENT:
1) LAYOUT SHALL BE PERFORMED BY THE DISTRICT LANDSCAPE ARCHITECT.
2) MULCH SHALL BE HARDWOOD WOOD CHIPS, 5 FOOT WIDTH, 4 INCHES THICK WITH WEED BARRIER FABRIC.
3) PREDATOR PROTECTION: WITHIN SEVEN (7) DAYS AFTER PLANTING THE TREE TRUNKS SHALL BE WRAPPED FROM THE GROUND LINE TO A HEIGHT OF THREE (3) FEET WITH A ONE-HALF (1/2) INCH SQUARE MESH, GALVANIZED, STEEL WIRE WITH A MINIMUM GUAGE OF 19 (HARDWARE CLOTH) AT A DIAMETER OF 14 INCHES MEASURED FROM THE CENTER OF THE TRUNK WITH A FOUR (4) INCH OVERLAP. THE SCREEN WIRE SHALL BE SECURED WITH A MINIMUM OF FOUR (4) STEEL STAPLES (HOG RINGS).

SURVEY MARKERS:
ONE SURVEY MARKER IS TO BE INSTALLED ON THE EAST END OF THE PROPOSED BRIDGE. AN EXISTING SURVEY MARKER IS LOCATED NEAR THE FIELD ENTRANCES AT THE WEST END OF THE PROJECT. THE CONTRACTOR SHALL ATTEMPT TO AVOID DISTURBING THE EXISTING SURVEY MARKER. A QUANTITY FOR REPLACING THE EXISTING SURVEY MARKER HAS BEEN INCLUDED IN CASE THE EXISTING SURVEY MARKER IS DISTURBED.

FILE NAME = $FILE$	USER NAME = $USER$	DESIGNED -	REVISED -
		DRAWN -	REVISED -
	PLOT SCALE = $SCALE$	CHECKED -	REVISED -
	PLOT DATE = $DATE$	DATE -	REVISED -

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

INDEX OF SHEETS, IDOT HIGHWAY STANDARDS, GENERAL NOTES & COMMITMENTS

SCALE: | SHEET NO. 1 OF 2 SHEETS | STA. | TO STA.

F.A.P RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
17	101BR-4	OGLE	60	3
		CONTRACT NO. 64D11		
FED. ROAD DIST. NO.	ILLINOIS	FED. AID PROJECT		

	PAY CODE #	DESCRIPTION	UNIT	TOTAL QUANTITY	CONSTRUCTION TYPE CODE 80%FED. 20%ST.			
					80% FEDERAL 20% STATE ROADWAY X081-2A	100% STATE NON PARTICIPATING X081-2A	80% FEDERAL 20% STATE BRIDGE X081-2A	GOOD NEIGHBOR POLICY X081-2A
	20100110	TREE REMOVAL (6 TO 15 UNITS DIAMETER)	UNIT	170	170			
	20100210	TREE REMOVAL (OVER 15 UNITS DIAMETER)	UNIT	252	252			
	20200100	EARTH EXCAVATION	CU YD	1540	1540			
	20201200	REMOVAL AND DISPOSAL OF UNSUITABLE MATERIAL	CU YD	750			750	
	20300100	CHANNEL EXCAVATION	CU YD	3474	3474			
	20700400	POROUS GRANULAR EMBANKMENT, SPECIAL	CU YD	240			240	
	20800150	TRENCH BACKFILL	CU YD	39	39			
*	25000210	SEEDING, CLASS 2A	ACRE	1	1.00			
*	25000310	SEEDING, CLASS 4	ACRE	0.5	0.50			
*	25000750	MOWING	ACRE	1.00		1.00		
*	25100115	MULCH, METHOD 2	ACRE	1.00	1.00			
*	25100630	EROSION CONTROL BLANKET	SQ YD	906	906			
*	25100635	HEAVY DUTY EROSION CONTROL BLANKET	SQ YD	489	489			
*	25100900	TURF REINFORCEMENT MAT	SQ YD	901	901			
	28000250	TEMPORARY EROSION CONTROL SEEDING	POUND	676	676			
	28000300	TEMPORARY DITCH CHECKS	EACH	50	50			
	28000400	PERIMETER EROSION BARRIER	FOOT	317	317			
	28000500	INLET AND PIPE PROTECTION	EACH	1	1			
	28000510	INLET FILTERS	EACH	2	2			
	28100105	STONE RIPRAP, CLASS A3	SQ YD	83	83			
	28100107	STONE RIPRAP, CLASS A4	SQ YD	1490			1490	
	28200200	FILTER FABRIC	SQ YD	1573	83		1490	
	31100300	SUB-BASE GRANULAR MATERIAL, TYPE A 4"	SQ YD	213	213			
	35101400	AGGREGATE BASE COURSE, TYPE B	TON	50	50			
	40200100	AGGREGATE SURFACE COURSE, TYPE A	TON	9				9
	40600625	LEVELING BINDER (MACHINE METHOD), N50	TON	120	120			
	40600982	HOT-MIX ASPHALT SURFACE REMOVAL - BUTT JOINT	SQ YD	201	201			
	40603310	HOT-MIX ASPHALT SURFACE COURSE, MIX "C", N50	TON	202	202			
	42001165	BRIDGE APPROACH PAVEMENT	SQ YD	217	217			
	42001430	BRIDGE APPROACH PAVEMENT CONNECTOR (FLEXIBLE)	SQ YD	71	71			
	44000100	PAVEMENT REMOVAL	SQ YD	397	397			
	44000198	HOT-MIX ASPHALT SURFACE REMOVAL, VARIABLE DEPTH	SQ YD	968	968			
	44000700	APPROACH SLAB REMOVAL	SQ YD	165	165			
	44300100	AREA REFLECTIVE CRACK CONTROL TREATMENT	SQ YD	1512	1512			
	48101200	AGGREGATE SHOULDERS, TYPE B	TON	153				153
	48203023	HOT-MIX ASPHALT SHOULDERS, 6 1/2"	SQ YD	938	938			
	50100300	REMOVAL OF EXISTING STRUCTURES NO. 1	EACH	1			1	

* SPECIALTY ITEM

FILE NAME = $FILEL$	USER NAME = $USER$	DESIGNED -	REVISED -	**STATE OF ILLINOIS DEPARTMENT OF TRANSPORTATION**	**SUMMARY OF QUANTITIES**
		DRAWN -	REVISED -		
	PLOT SCALE = $SCALE$	CECKED -	REVISED -		
	PLOT DATE = $DATE$	DATE -	REVISED -		SCALE: NTS | SHEET NO. OF SHEETS | STA. TO STA.

F.A.P RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
17	101BR-4	OGLE	60	4
		CONTRACT NO. 64D11		
FED. ROAD DIST. NO.	ILLINOIS	FED. AID PROJECT		

	PAY CODE #	DESCRIPTION	UNIT	TOTAL QUANTITY	CONSTRUCTION TYPE CODE 80% FED. 20% ST.			
					80% FEDERAL 20% STATE ROADWAY X081-2A	100% STATE NON PARTICIPATING X081-2A	80% FEDERAL 20% STATE BRIDGE X081-2A	GOOD NEIGHBOR POLICY X081-2A
	50100400	REMOVAL OF EXISTING STRUCTURES NO. 2	EACH	1	1			
	50200100	STRUCTURE EXCAVATION	CU YD	260			260	
	50300225	CONCRETE STRUCTURES	CU YD	44.3			44.3	
	50300255	CONCRETE SUPERSTRUCTURE	CU YD	167.9			167.9	
	50300260	BRIDGE DECK GROOVING	SQ YD	344			344	
	50300280	CONCRETE ENCASEMENT	CU YD	6.6			6.6	
	50300300	PROTECTIVE COAT	SQ YD	464			464	
	50400735	FURNISHING AND ERECTING PRECAST PRESTRESSED CONCRETE BULB T-BEAMS 63"	FOOT	608			608	
	50800205	REINFORCEMENT BARS, EPOXY COATED	POUND	33893			33893	
	50800515	BAR SPLICERS	EACH	62			62	
	51201800	FURNISHING STEEL PILES HP14X73	FOOT	259			259	
	51500100	NAME PLATES	EACH	1			1	
	54200673	PIPE CULVERTS, TYPE 1, CORRUGATED STEEL OR ALUMINUM CULVERT PIPE 48"	FOOT	46	46			
	54213447	END SECTIONS 12"	EACH	2	2			
	550A0340	STORM SEWERS, CLASS A, TYPE 2 12"	FOOT	14	14			
	550A0640	STORM SEWERS, CLASS A, TYPE 3 12"	FOOT	22	22			
	59100100	GEOCOMPOSITE WALL DRAIN	SQ YD	120			120	
	60109580	PIPE UNDERDRAINS FOR STRUCTURES 4"	FOOT	115			115	
	60240324	INLETS, TYPE B, TYPE 20 FRAME AND GRATE	EACH	2	2			
*	63000000	STEEL PLATE BEAM GUARD RAIL, TYPE A	FOOT	550	550			
*	63100087	TRAFFIC BARRIER TERMINAL, TYPE 6A	EACH	4	4			
*	63100167	TRAFFIC BARRIER TERMINAL, TYPE 1 (SPECIAL) TANGENT	EACH	4	4			
	63200310	GUARDRAIL REMOVAL	FOOT	743	743			
	63500105	DELINEATORS	EACH	4	4			
	66600105	FURNISHING AND ERECTING RIGHT-OF-WAY MARKERS	EACH	8	8			
	66700305	PERMANENT SURVEY MARKERS, TYPE II	EACH	2	2			
	67000400	ENGINEER'S FIELD OFFICE, TYPE A	CAL MO	6	6			
	67100100	MOBILIZATION	L SUM	1	1			
	70100450	TRAFFIC CONTROL AND PROTECTION, STANDARD 701201	L SUM	1				1
	70300100	SHORT-TERM PAVEMENT MARKING	FOOT	211				211
	70301000	WORK ZONE PAVEMENT MARKING REMOVAL	SQ FT	71				71
*	78001110	PAINT PAVEMENT MARKING - LINE 4"	FOOT	9745	4875			4870
*	78200410	GUARDRAIL MARKERS, TYPE A	EACH	16	16			
*	78200520	BARRIER WALL MARKERS, TYPE B	EACH	4	4			
*	78201000	TERMINAL MARKER-DIRECT APPLIED	EACH	4	4			
*	A2006514	TREE, QUERCUS BICOLOR (SWAMP WHITE OAK), 1-3/4" CALIPER, BALLED AND BURLAPPED	EACH	24	24			
	X0324856	SLOPED METAL END SECTION WITH GRATE, 48 INCH	EACH	2	2			

* SPECIALTY ITEM

FILE NAME = $FILEL$	USER NAME = $USER$	DESIGNED -	REVISED -	STATE OF ILLINOIS DEPARTMENT OF TRANSPORTATION	SUMMARY OF QUANTITIES	F.A.P RTE.	SECTION	COUNTY	TOTAL SEETS	SEET NO.
		DRAWN -	REVISED -			17	101BR-4	OGLE	60	5
	PLOT SCALE = $SCALE$	CECKED -	REVISED -					CONTRACT NO. 64D11		
	PLOT DATE = $DATE$	DATE -	REVISED -		SCALE: NTS SEET NO. OF SEETS STA. TO STA.	FED. ROAD DIST. NO.	ILLINOIS	FED. AID PROJECT		

PAY CODE #	DESCRIPTION	UNIT	TOTAL QUANTITY	CONSTRUCTION TYPE CODE 80% FED. 20% ST.			
				80% FEDERAL 20% STATE ROADWAY X081-2A	100% STATE NON PARTICIPATING X081-2A	80% FEDERAL 20% STATE BRIDGE X081-2A	GOOD NEIGHBOR POLICY X081-2A
X0325911	HOT- MIX ASPHALT SURFACE COURSE, SPECIAL	TON	470				470
X7013015	TRAFFIC CONTROL FOR ROAD CLOSURE	L SUM	1	1			
X5020501	UNDERWATER STRUCTURE EXCAVATION PROTECTION - LOCATION 1	EACH	1			1	
Z0001900	ASBESTOS BEARING PAD REMOVAL	EACH	44			44	
Z0005400	BREAKER-RUN CRUSHED STONE	TON	1220			1220	
Z0013798	CONSTRUCTION LAYOUT	L SUM	1	1			
Z0025500	FURNISHING AND INSTALLING PROPERTY MARKERS	EACH	2	2			
Z0065000	SETTING PILES IN ROCK	EACH	14			14	

FILE NAME = $FILEL$	USER NAME = $USER$	DESIGNED -	REVISED -	STATE OF ILLINOIS DEPARTMENT OF TRANSPORTATION	SUMMARY OF QUANTITIES	F.A.P RTE.	SECTION	COUNTY	TOTAL SEETS	SEET NO.
		DRAWN -	REVISED -			17	101BR-4	OGLE	60	6
	PLOT SCALE = $SCALE$	CECKED -	REVISED -					CONTRACT NO. 64D11		
	PLOT DATE = $DATE$	DATE -	REVISED -		SCALE: NTS SEET NO. OF SEETS STA. TO STA.	FED. ROAD DIST. NO.	ILLINOIS	FED. AID PROJECT		

ROADWAY SCHEDULE

LOCATION STATION TO STATION				REMARKS	LENGTH	AVERAGE MAINLINE WIDTH	MAINLINE AREA	AVERAGE SHOULDER WIDTH	SHOULDER AREA	PAY ITEM 31100300 SUB-BASE GRANULAR MATERIAL, TYPE A 4"	PAY ITEM 40603310 HOT-MIX ASPHALT SURFACE COURSE, MIX "C", N50 1 1/2"	PAY ITEM 42001165 BRIDGE APPROACH PAVEMENT	PAY ITEM 42001430 BRIDGE APPROACH PAVEMENT CONNECTOR (FLEXIBLE)	PAY ITEM 44300100 AREA REFLECTIVE CRACK CONTROL TREATMENT	PAY ITEM 48203023 HOT MIX ASPHALT SHOULDERS, 6 1/2"
					FEET	FEET	SQ YD	FEET	SQ YD	SQ YD	TON	SQ YD	SQ YD	SQ YD	SQ YD
IL ROUTE 64															
121+00.	TO	121+50.	LT	50' SHLD TAPER	50.00	12	66.67	4.9	27.22		7.89			66.67	27.92
121+50.	TO	122+30.68	LT	IL 64	80.68	12	107.57	4	35.86		12.05			107.57	36.98
122+30.68	TO	122+54.68	LT	1:6 SHLD TAPER TO 8'	24.00	12	32.00	6	16.00		4.03			32.00	16.33
122+54.68	TO	122+89.68	LT	IL 64	35.00	12	46.67	8	31.11		6.53			46.67	31.60
122+89.68	TO	122+95.68	LT	1:6 SHLD TAPER TO 7'	6.00	12	8.00	7.5	5.00		1.09			8.00	5.08
122+95.68	TO	123+81.31	LT	BEG CONC CURB TYPE B SPL	85.63	12	114.17	7	66.60		15.19			114.17	67.79
123+81.31	TO	123+99.4	LT	IL 64	18.09	12	24.12	6.5	13.07		3.12			24.12	13.32
120+32.51	TO	120-54.	RT	1:6 SHLD TAPER TO 8'	21.49			6.21	14.83		1.25				15.13
120+54.	TO	121-00.	RT	IL 64	46.00			8	40.89		3.43				41.53
121+00.	TO	121+38.98	RT	BEG PAVEMENT	38.98	12	51.97	8	34.65		7.28			51.97	35.19
121+38.98	TO	121+44.98	RT	1:6 SHLD TAPER TO 7'	6.00	12	8.00	7.5	5.00		1.09			8.00	5.08
121+44.98	TO	123+92.95	RT	BEG CONC CURB TYPE B SPL	247.97	12	330.63	7	192.87		43.97			330.63	196.31
123+92.95	TO	123+99.4	RT	IL 64	6.45	12	8.60	6.5	4.66		1.11			8.60	4.75
123+99.4	TO	124+09.4	LT & RT	APPROACH PAVEMENT CONNECTOR	10.00	32	35.56	2.50	2.78		0.23		35.56		5.83
124+09.4	TO	124+39.4	LT & RT	BRIDGE APPROACH PAVEMENT	30.00	32.5	108.33	2.75	9.17	106.5	0.77	108.33			19.17
124+39.4	TO	125+42.6		PROPOSED BRIDGE	103.20										
125+42.6	TO	125+72.6	LT & RT	BRIDGE APPROACH PAVEMENT	30.00	32.5	108.33	2.75	9.17	106.5	0.77	108.33			19.17
125+72.6	TO	125+82.6	LT & RT	APPROACH PAVEMENT CONNECTOR	10.00	32	35.56	3.00	3.33		0.28		35.56		6.94
125+82.6	TO	127+62.17	LT	IL 64	179.57	12	239.43	7	133.67		31.84			239.43	142.16
127+62.17	TO	127+68.17	LT	1:6 SHLD TAPER TO 8'	6.00	12	8.00	7.5	5.00		1.09			8.00	5.08
127+68.17	TO	128+03.17	LT	IL 64	35.00	12	46.67	8	31.11		6.53			46.67	31.60
128+03.17	TO	128+24.02	LT	1:6 SHLD TAPER TO 4.52'	20.85	12	27.80	6.26	14.50		3.55			27.80	14.79
128+24.02	TO	128-50.	LT	IL 64	25.98	12	34.64	4.52	13.05		4.01			34.64	13.41
125+82.6	TO	126+86.06	RT	IL 64	103.46	12	137.95	7	80.47		18.35			137.95	81.91
126+86.06	TO	126+92.06	RT	1:6 SHLD TAPER TO 8'	6.00	12	8.00	7.5	5.00		1.09			8.00	5.08
126+92.06	TO	127+27.06	RT	IL 64	35.00	12	46.67	8	31.11		6.53			46.67	31.60
127+27.06	TO	127+51.06	RT	1:6 SHLD TAPER TO 4'	24.00	12	32.00	6	16.00		4.93			32.00	16.33
127+51.06	TO	128-00.	RT	IL 64	48.94	12	65.25	4	21.75		7.31			65.25	22.43
128+00.	TO	128-50.	RT	50' SHLD TAPER	50.00	12	66.67	4.43	24.61		7.67			66.67	25.31
TOTALS=										213.00	202.10	216.67	71.11	1511.47	937.81

FILE NAME = $FILEL$	USER NAME = $USER$	DESIGNED -	REVISED -	STATE OF ILLINOIS DEPARTMENT OF TRANSPORTATION	SCHEDULE OF QUANTITIES
		DRAWN -	REVISED -		
	PLOT SCALE = $SCALE$	CHECKED -	REVISED -		SCALE: NTS SHEET NO. 1 OF SHEETS STA. TO STA.
	PLOT DATE = $DATE$	DATE -	REVISED -		

F.A.P RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
17	101BR-4	OGLE	60	7
		CONTRACT NO. 64D11		
FED. ROAD DIST. NO.	ILLINOIS	FED. AID PROJECT		

EARTHWORK SCHEDULE

LOCATION		EARTH EXCAVATION	EMBANKMENT	CHANNEL EXCAVATION	STRUCTURE REMOVAL (SEE NOTE 4)	STRUCTURE EXCAVATION (SEE NOTE 3)	LEVELING BINDER	EXCAVATION USED IN EMBANKMENT (ADJ. FOR SHRINKAGE)	EARTHWORK BALANCE WASTE (+) OR SHORTAGE (-)
STA.	STA.	CU YD							
IL RTE 64									
12000	12050	6	2	0	0	0	0	6	3
12050	12100	29	19	0	0	0	0	29	10
12100	12150	31	56	0	0	0	0	31	-25
12150	12200	14	78	0	0	0	0	14	-64
12200	12250	13	90	0	0	0	0	13	-77
12250	12300	15	111	0	0	0	0	15	-97
12300	12350	14	130	0	0	0	0	14	-116
12350	12400	22	165	0	0	0	0	22	-143
12400	12439.40	78	136	0	0	0	0	78	-58
BRIDGE OMMISION STA. 124+39.40 TO STA. 12542.60									
12542.60	12600	198	119	0	0	0	7	197	78
12600	12650	230	34	0	0	0	9	229	195
12650	12700	276	11	0	0	0	7	275	264
12700	12750	252	5	0	0	0	6	252	246
12750	12800	234	6	0	0	0	3	233	227
12800	12850	122	4	0	0	0	0	122	118
12850	12900	6	1	0	0	0	0	6	5
STREAM									
1080	1100	0	0	7	0	0	0	0	0
1100	1120	0	0	19	0	0	0	0	0
1120	1140	0	0	35	0	0	0	0	0
1140	1160	0	0	75	0	0	0	0	0
1160	1180	0	7	127	0	0	0	0	-7
1180	1200	0	26	161	0	0	0	0	-26
1200	1220	0	49	180	0	0	0	0	49
1220	1240	0	69	231	0	0	0	0	-69
1240	1260	0	84	318	0	0	0	0	-84
1260	1280	0	90	354	50	0	0	0	-90
1280	1300	0	94	407	97	9	0	0	-94
1300	1320	0	72	456	92	19	0	0	-72
1320	1340	0	23	418	45	17	0	0	-23
1340	1360	0	0	313	0	16	0	0	0
1360	1380	0	2	186	0	9	0	0	-2
1380	1400	0	2	117	0	0	0	0	2
1400	1420	0	0	60	0	0	0	0	0
1420	1440	0	0	11	0	0	0	0	0
IL 64 TOTALS		1540	970	0	0	0	32	1536	566
STREAM TOTALS		0	518	3474	284	72	0	0	-518
TOTALS =		1540	1488	3474	284	72	32	1536	48

EARTHWORK NOTES:

1. A SHRINKAGE FACTOR OF 25% WAS USED FOR EARTH EXCAVATION ADJUSTMENT.

2. ANY EXCAVATION FROM FIVE MILE CREEK REALIGNMENT MUST BE APPROVED BY A REPRESENTATIVE OF THE DISTRICTS GEOTECHNICAL UNIT PRIOR TO USE. FOLLOWING IS A BREAK DOWN OF THE ESTIMATED EARTHWORK WASTE FROM FIVE MILE CREEK:

   3474 CU YD OF CHANNEL EXCAVATION
   72 CU YD OF STRUCTURE EXCAVATION
   284 CU YD OF STRUCTURE REMOVAL

3. THE STRUCTURE EXCAVATION QUANTITY IN THE EARTHWORK SCHEDULE IS BASED ON THE STRUCTURE EXCAVATION SHOWN ON THE CROSS SECTIONS AND WILL NOT MATCH THE ACTUAL STRUCTURE EXCAVATION QUANTITY. THE STRUCTURE EXCAVATION QUANTITY HAS BEEN CALCULATED INDEPENDENT OF THE CROSS SECTIONS.

4. THE STRUCTURE REMOVAL QUANTITY IN THE EARTHWORK SCHEDULE IS BASED ON EXCAVATION REQUIRED TO PERFORM THE REMOVAL OF EXISTING STRUCTURES AS SHOWN ON THE CROSS SECTIONS. THIS INFORMATION HAS BEEN PROVIDED FOR INFORMATION ONLY.

FILE NAME = $FILEL$	USER NAME = $USER$	DESIGNED -	REVISED -
		DRAWN	REVISED -
	PLOT SCALE = $SCALE$	CHECKED -	REVISED -
	PLOT DATE = $DATE$	DATE -	REVISED -

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

SCHEDULE OF QUANTITIES

SCALE: NTS | SHEET NO. 1 OF SHEETS | STA. | TO STA.

F.A.P RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
17	101BR-4	OGLE	60	8
		CONTRACT NO. 64D11		
FED. ROAD DIST. NO.	ILLINOIS	FED. AID PROJECT		

20100110 TREE REMOVAL (6 TO 15 UNITS)

UNIT	LOCATION			
6	STA. 123+76.03	36.4'	RT
6	STA. 123+92.90	50.1'	RT
8	STA. 123+99.46	49.1'	RT
12	STA. 124+09.55	53.8'	RT
12	STA. 124+17.68	40.8'	RT
12	STA. 124+18.77	44.7'	RT
12	STA. 124+22.81	34.2'	RT
12	STA. 124+55.58	50.2'	LT
10	STA. 125+32.09	33.5'	RT
10	STA. 125+34.59	35.3'	RT
10	STA. 125+46.57	36.3'	RT
10	STA. 125+52.05	32.4'	RT
10	STA. 125+58.68	42.7'	RT
10	STA. 125+59.07	38.1'	RT
12	STA. 125+77.36	44.3'	RT
10	STA. 125+90.20	43.3'	RT
8	STA. 126+30.70	43.2'	RT
170	TOTAL		

20100210 TREE REMOVAL (OVER 15 UNITS DIAMETER)

UNIT	LOCATION			
18	STA. 125+25.76	32.8'	RT
18	STA. 125+27.06	30.8'	RT
36	STA. 125+65.43	47.0'	RT
36	STA. 125+87.60	39.3'	LT
48	STA. 127+08.89	34.2'	RT
48	STA. 127+67.81	36.4'	LT
18	STA. 127+74.85	36.1'	LT
252	TOTAL		

20800150 TRENCH BACKFILL

CU YD	LOCATION				
30	STA. 120+78				RT
1	STA. 123+87.31	TO	STA.	123-87.31	LT
8	STA. 123+98.95	TO	STA.	123+98.95	RT
39	TOTAL				

25000210 SEEDING, CLASS 2A

ACRE	LOCATION				
0.03	STA. 120+32.51	TO	STA.	120+66.00	RT
0.25	STA. 120+90.00	TO	STA.	124+39.67	RT
0.16	STA. 125+61.90	TO	STA.	128+50.00	RT
0.19	STA. 121+00.00	TO	STA.	124+20.10	LT
0.13	STA. 125+42.33	TO	STA.	128+50.00	LT
0.16	STA. 10+89.64	TO	STA.	12+33.10	STREAM
0.08	STA. 13+97.24	TO	STA.	14+34.07	STREAM
1.00	TOTAL				

25000310 SEEDING, CLASS 4

ACRE	LOCATION				
0.03	STA. 121+13.51	TO	STA.	124+39.67	RT
0.06	STA. 125+78.08	TO	STA.	128+50.00	RT
0.15	STA. 125+06.11	TO	STA.	128+50.00	LT
0.01	STA. 11+58.02	TO	STA.	12+27.02	STREAM
0.07	STA. 10+80.99	TO	STA.	12+27.02	RT
0.08	STA. 12-55.04	TO	STA.	10+95.26	LT
0.06	STA. 13+41.89	TO	STA.	14+22.95	RT
0.04	STA. 13+97.61	TO	STA.	14+53.99	LT
0.50	TOTAL				

25000750 MOWING

ACRE	LOCATION				
0.03	STA. 120+32.51	TO	STA.	120+66.00	RT
0.25	STA. 120+90.00	TO	STA.	124+39.67	RT
0.16	STA. 125+61.90	TO	STA.	128+50.00	RT
0.19	STA. 121+00.00	TO	STA.	124+20.10	LT
0.13	STA. 125+42.33	TO	STA.	128+50.00	LT
0.16	STA. 10-89.64	TO	STA.	12+33.10	STREAM
0.08	STA. 13-97.24	TO	STA.	14+34.07	STREAM
1.00	TOTAL				

25100115 MULCH, METHOD 2

ACRE	LOCATION				
0.04	STA. 120+32.51	TO	STA.	120+66.00	RT
0.15	STA. 120+90.00	TO	STA.	123+00.00	RT
0.15	STA. 125+61.90	TO	STA.	128+50.00	RT
0.09	STA. 125+78.08	TO	STA.	128+50.00	RT
0.20	STA. 121+00.00	TO	STA.	124+20.10	LT
0.11	STA. 125+42.33	TO	STA.	128+50.00	LT
0.16	STA. 125+06.11	TO	STA.	128+50.00	LT
0.04	STA. 10-89.64	TO	STA.	12+33.10	RT
0.03	STA. 10-89.64	TO	STA.	12+33.10	LT
0.03	STA. 13-97.24	TO	STA.	14+34.07	RT
1.00	TOTAL				

25100630 EROSION CONTROL BLANKET

SQ. YD.	LOCATION				
682	STA. 121+13.41	TO	STA.	124+39.67	RT
112	STA. 126+00.00	TO	STA.	128+50.00	RT
112	STA. 126+00.00	TO	STA.	128+50.00	LT
906	TOTAL				

25100635 HEAVY DUTY EROSION CONTROL BLANKET

SQ. YD.	LOCATION			
424	STA. 10+89.63	TO	STA.	12+33.10
65	STA. 13+97.24	TO	STA.	14+34.07
489	TOTAL			

25100900 TURF REINFORCEMENT MAT

SQ. YD.	LOCATION				
177	STA. 10+82.76	TO	STA.	12+27.02	RT
351	STA. 10+92.41	TO	STA.	12+53.17	LT
225	STA. 13+34.73	TO	STA.	14+30.38	RT
148	STA. 13+89.09	TO	STA.	14+52.20	LT
901	TOTAL				

28000250 TEMPORARY EROSION CONTROL SEEDING

POUND	LOCATION	100 lbs/acre x 4 APPLICATIONS			
8	STA. 120+32.51	TO	STA.	120+66.00	RT
320	STA. 120+90.00	TO	STA.	128+50.00	RT
348	STA. 121+00.00	TO	STA.	128+50.00	LT
676	TOTAL				

28000300 TEMPORARY DITCH CHECKS

EACH	LOCATION		
1	STA. 122+26.6		RT
1	STA. 123+39.6		RT
1	STA. 123+86.1		RT
1	STA. 124+26.1		RT
1	STA. 124+66.1		RT
1	STA. 125+56.5		RT
1	STA. 125+62.5		RT
1	STA. 125+68.5		RT
1	STA. 125+74.5		RT
1	STA. 125+80.5		RT
1	STA. 125+86.5		RT
1	STA. 125+92.5		RT
1	STA. 125+98.5		RT
1	STA. 126+12		RT
1	STA. 126+29		RT
1	STA. 126+46		RT
1	STA. 126+63		RT
1	STA. 126+80		RT
1	STA. 126+97		RT
1	STA. 127+14		RT
1	STA. 127+31		RT
1	STA. 127+48		RT
1	STA. 127+65		RT
1	STA. 127+82		RT
1	STA. 127+99		RT
1	STA. 128+16		RT
1	STA. 128+33		RT
1	STA. 124+93.5		LT
1	STA. 124+98.5		LT
1	STA. 125+03.5		LT
1	STA. 125+08.5		LT
1	STA. 125+13.5		LT
1	STA. 125+26.5		LT
1	STA. 125+39.5		LT
1	STA. 125+52.5		LT
1	STA. 125+65.5		LT
1	STA. 125+78.5		LT
1	STA. 125+91.5		LT
1	STA. 126+08		LT
1	STA. 126+26		LT
1	STA. 126+44		LT
1	STA. 126-62		LT
1	STA. 126+80		LT
1	STA. 126+98		LT
1	STA. 127+27		LT
1	STA. 127+57		LT
1	STA. 127+87		LT
1	STA. 128+08		LT
1	STA. 128+22		LT
1	STA. 128+36		LT
50	TOTAL		

FILE NAME = $FILEL$	USER NAME = $USER$	DESIGNED -	REVISED -
		DRAWN -	REVISED -
	PLOT SCALE = $SCALE$	CHECKED -	REVISED -
	PLOT DATE = $DATE$	DATE -	REVISED -

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

SCHEDULE OF QUANTITIES

SCALE: NTS | SHEET NO. 1 OF SHEETS | STA. | TO STA.

F.A.P RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
17	101BR-4	OGLE	60	9
		CONTRACT NO. 64D11		
FED. ROAD DIST. NO.	ILLINOIS	FED. AID PROJECT		

28000400 PERIMETER EROSION BARRIER

FOOT	LOCATION
317	STA. 121+00 TO STA 124+14.8 RT
317	TOTAL

28000500 INLET AND PIPE PROTECTION

EACH	LOCATION
1	STA. 120+78 RT
1	TOTAL

28000510 INLET FILTERS

EACH	LOCATION
1	STA. 123+87.31 LT
1	STA. 123+98.95 RT
2	TOTAL

28100105 STONE RIPRAP, CLASS A3

SQ YD	LOCATION
5	STA. 123+87.31 LT 5' x 9'
5	STA. 123+98.95 RT 5' x 9'
23	STA. 125+42.14 TO STA 126+00 RT 4' x 52'
50	STA. 124+88.98 TO STA 126+00 LT 4' x 112'
83	TOTAL

28200200 FILTER FABRIC

SQ YD	LOCATION
5	STA. 123+87.31 LT 5' x 9'
5	STA. 123+98.95 RT 5' x 9'
23	STA. 125+42.14 TO STA 126+00 RT 4' x 52'
50	STA. 124+88.98 TO STA 126+00 LT 4' x 112'
	STA. 124+91 BRIDGE
83	TOTAL

35101400 AGGREGATE BASE COURSE, TYPE B

TON	LOCATION
50	STA. 120+78 RT F.E.
50.0	TOTAL

40600625 LEVELING BINDER (MACHINE METHOD), N50

TON	LOCATION (CALCULATED WITH ADDITIONAL 1/4")
45	STA. 121+00 TO STA. 123+99.40 3/4"
10	STA. 127+86.25 TO STA. 128+50 3/4"
65	STA. 125+82.60 TO STA. 127+86.25 VAR.
120	TOTAL

40600982 HOT-MIX ASPHALT SURFACE REMOVAL - BUTT JOINT

SQ YD	LOCATION
67	STA. 121+00 TO STA. 121+04.5
67	STA. 127+86.3 TO STA. 127+90.8
67	STA. 128+45.5 TO STA. 128+50
201	TOTAL

44000100 PAVEMENT REMOVAL

SQ YD	LOCATION
122	STA. 120+32.51 TO STA. 124+14.61 LT & RT
275	STA. 125+06.58 TO STA. 128+50 LT & RT
397	TOTAL

44000198 HOT-MIX ASPHALT SURFACE REMOVAL, VARIABLE DEPTH

SQ YD	LOCATION
798	STA. 121+00 TO STA. 123+99.4
170	STA. 127+86.3 TO STA. 128+50
968	TOTAL

44000700 APPROACH SLAB REMOVAL

SQ YD	LOCATION
82	STA. 123+95.35 TO STA. 124+34.52
83	STA. 124+86.67 TO STA. 125+25.79
165	TOTAL

50100400 REMOVAL OF EXISTING STRUCTURES NO. 2

EACH	LOCATION
1	STA. 124+20 RT DITCH CHECK
1	TOTAL

54200673 PIPE CULVERTS, TYPE 1, CORRUGATED STEEL OR ALUMINUM CULVERT PIPE 48"

FOOT	LOCATION (EXISTING CULVERT TO BE REUSED PER G.N.)
46	STA. 120+78 RT F.E.
46	TOTAL

54213447 END SECTIONS 12"

EACH	LOCATION
1	STA. 123+87.31 LT
1	STA. 123+98.95 RT
2	TOTAL

550A0340 STORM SEWERS, CLASS A, TYPE 2 12"

FOOT	LOCATION
14	STA. 123+87.31 TO STA. 123+87.31 LT
14	TOTAL

550A0640 STORM SEWERS, CLASS A, TYPE 3 12"

FOOT	LOCATION
22	STA. 123+98.95 TO STA. 123+98.95
22	TOTAL

60240324 INLETS, TYPE B, TYPE 20 FRAME AND GRATE

EACH	LOCATION
1	STA. 123+87.31 LT
1	STA. 123+98.95 RT
2	TOTAL

63000000 STEEL PLATE BEAM GUARD RAIL, TYPE A

FOOT	LOCATION
237.5	STA. 121-64 TO STA. 124+01.5 RT
75	STA. 123+14.7 TO STA. 123+89.7 LT
75	STA. 125+92.1 TO STA. 126+67.1 RT
162.5	STA. 125+80.7 TO STA. 127+43.2 LT
550	TOTAL

63100087 TRAFFIC BARRIER TERMINAL, TYPE 6A

EACH	LOCATION
1	STA. 124-33.58 LT
1	STA. 124+45.22 RT
1	STA. 125-36.78 LT
1	STA. 125+48.42 RT
4	TOTAL

63100167 TRAFFIC BARRIER TERMINAL, TYPE 1 (SPECIAL) TANGENT

EACH	LOCATION
1	STA. 121+14.0 RT
1	STA. 122+64.7 LT
1	STA. 127+17.1 RT
1	STA. 127+93.2 LT
4	TOTAL

63200310 GUARDRAIL REMOVAL

FOOT	LOCATION
190	STA. 122-36.18 TO STA. 124+25.70 LT
182	STA. 122-55.57 TO STA. 124+37.18 RT
182	STA. 124-93.37 TO STA. 126+75.11 LT
189	STA. 125+05.02 TO STA. 126+93.88 RT
743	TOTAL

FILE NAME = $FILEL$	USER NAME = $USER$	DESIGNED -	REVISED -
		DRAWN -	REVISED -
	PLOT SCALE = $SCALE$	CHECKED -	REVISED -
	PLOT DATE = $DATE$	DATE -	REVISED -

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

SCHEDULE OF QUANTITIES

SCALE: NTS | SHEET NO. 1 OF SHEETS | STA. | TO STA.

F.A.P RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
17	101BR-4	OGLE	60	10
		CONTRACT NO. 64D11		
FED. ROAD DIST. NO.	ILLINOIS	FED. AID PROJECT		

63500105 DELINEATORS

EACH	LOCATION
1	STA. 121+14.5 RT GUARDRAIL TERMINAL
1	STA. 122+65.2 LT GUARDRAIL TERMINAL
1	STA. 127+16.8 RT GUARDRAIL TERMINAL
1	STA. 127+92.6 LT GUARDRAIL TERMINAL
4	TOTAL

66600105 FURNISHING AND ERECTING RIGHT-OF-WAY MARKERS

EACH	LOCATION
1	STA. 123+50 50' LT
1	STA. 123+75 60' LT
1	STA. 128+30 60' LT
1	STA. 128+50 40.81' LT
1	STA. 123+53.36 55' RT
1	STA. 123+90 80' RT
1	STA. 125+75 80' RT
1	STA. 128+50 40' RT
8	TOTAL

66700305 PERMANENT SURVEY MARKERS, TYPE II

EACH	LOCATION
1	STA. 124+91 IL 64 BRIDGE
1	STA. 120+78 RT
2	TOTAL

78001110 PAINT PAVEMENT MARKING - LINE 4"

FOOT	LOCATION
1500	STA. 121+00 TO STA. 128+50 RT WHITE (2 APPLICATIONS, SOLID)
1500	STA. 121+00 TO STA. 128+50 LT WHITE (2 APPLICATIONS, SOLID)
1500	STA. 121+00 TO STA. 128+50 ℄ YELLOW (2 APPLICATIONS, SOLID)
375	STA. 121+00 TO STA. 128+50 ℄ YELLOW (2 APPLICATIONS, 10' DASH/30' SKIP)
4875	TOTAL

78200410 GUARDRAIL MARKERS, TYPE A

EACH	LOCATION
1	STA. 124+00 LT
1	STA. 123+66 LT
1	STA. 123-32 LT
1	STA. 122-98 LT
1	STA. 125-88 LT
1	STA. 126-39 LT
1	STA. 126+90 LT
1	STA. 127+41 LT
1	STA. 123-79 RT
1	STA. 123+13 RT
1	STA. 122-47 RT
1	STA. 121+81 RT
1	STA. 125-82 RT
1	STA. 126+16 RT
1	STA. 126+50 RT
1	STA. 126+84 RT
16	TOTAL

78200520 BARRIER WALL MARKERS, TYPE B

EACH	LOCATION
2	STA. 124+91 LT IL 64 BRIDGE
2	STA. 124+91 RT IL 64 BRIDGE
4	TOTAL

78201000 TERMINAL MARKER-DIRECT APPLIED

EACH	LOCATION
1	STA. 121+14.0 RT
1	STA. 122+64.7 LT
1	STA. 127+17.1 RT
1	STA. 127+93.2 LT
4	TOTAL

X0324856 SLOPED METAL END SECTION WITH GRATE, 48 INCH

EACH	LOCATION
1	STA. 120+56.4 RT
1	STA. 121+01.0 RT
2	TOTAL

Z0025500 FURNISHING AND INSTALLING PROPERTY MARKERS

EACH	LOCATION
1	STA. 126+78.35 LT
1	STA. 127+02.16 LT
2	TOTAL

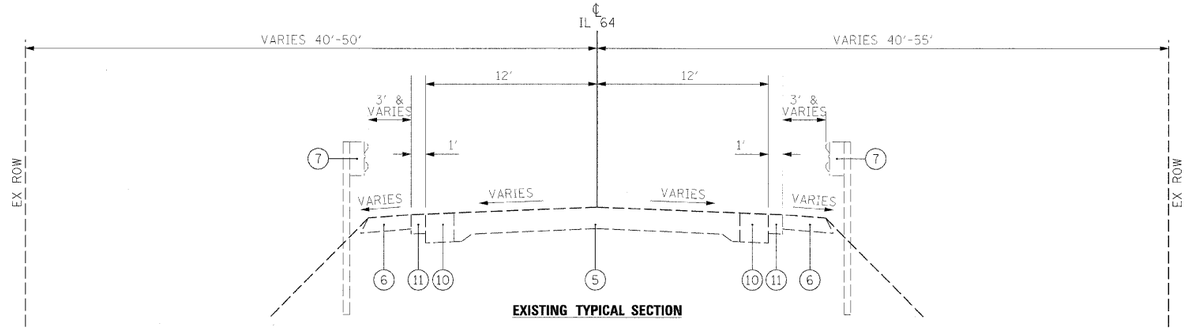
FILE NAME = $FILEL$	USER NAME = $USER$	DESIGNED -	REVISED -
		DRAWN -	REVISED -
	PLOT SCALE = $SCALE$	CHECKED -	REVISED -
	PLOT DATE = $DATE$	DATE -	REVISED -

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

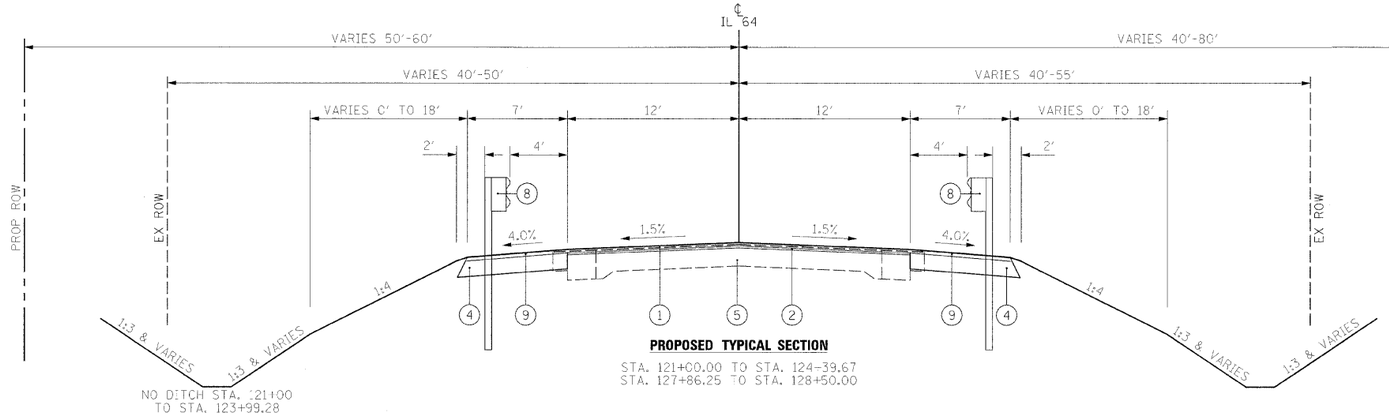
SCHEDULE OF QUANTITIES

SCALE: NTS | SHEET NO. 1 OF SHEETS | STA. | TO STA.

F.A.P RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
17	101BR-4	OGLE	60	11
		CONTRACT NO. 64D11		
FED. ROAD DIST. NO.	ILLINOIS	FED. AID PROJECT		



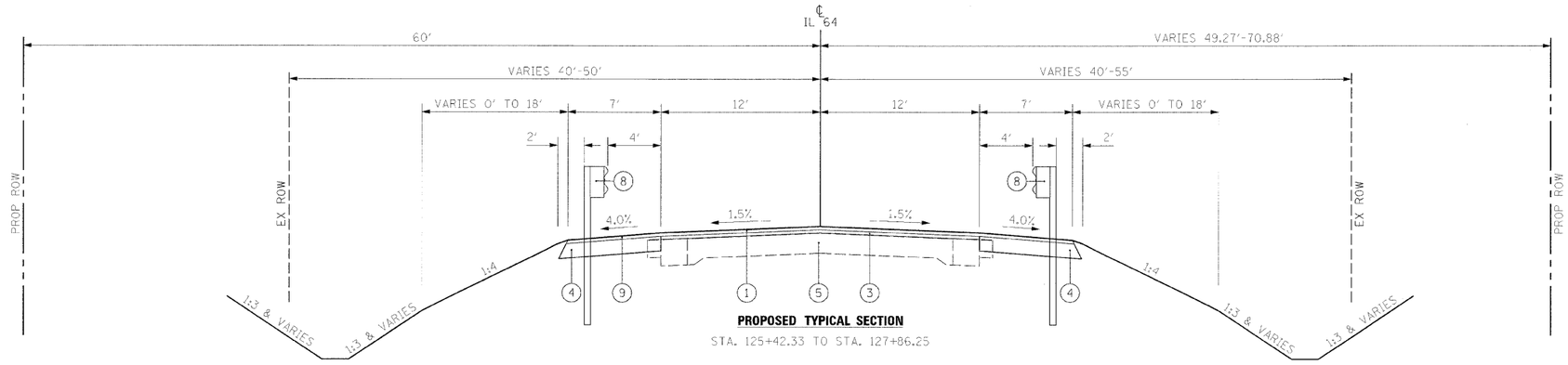
EXISTING TYPICAL SECTION



PROPOSED TYPICAL SECTION

STA. 121+00.00 TO STA. 124-39.67
STA. 127+86.25 TO STA. 128+50.00

NO DITCH STA. 121+00
TO STA. 123+99.28

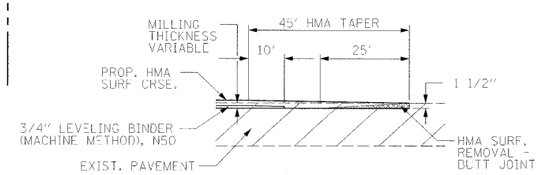


PROPOSED TYPICAL SECTION

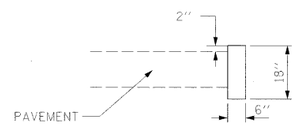
STA. 125+42.33 TO STA. 127+86.25

LEGEND

1. 1 1/2" HOT-MIX ASPHALT SURFACE COURSE MIX "C", N50
2. 3/4" LEVELING BINDER (MACHINE METHOD), N50
3. 3/4" & VAR. LEVELING BINDER (MACHINE METHOD), N50
4. HOT-MIX ASPHALT SHOULDERS, 6 1/2"
5. EXISTING CONCRETE PAVEMENT WITH HMA OVERLAY
6. EXISTING AGGREGATE SHOULDER
7. EXISTING GUARDRAIL
8. STEEL PLATE BEAM GUARDRAIL, TYPE A
9. 1 1/2" HOT-MIX ASPHALT SURFACE COURSE MIX "C", N50
10. EXISTING HMA WIDENING
11. EXISTING HMA SHOULDER



TYPICAL BUTT JOINT AND HMA TAPER FOR MILLING AND RESURFACING



CONCRETE CURB, TYPE B (SPECIAL)

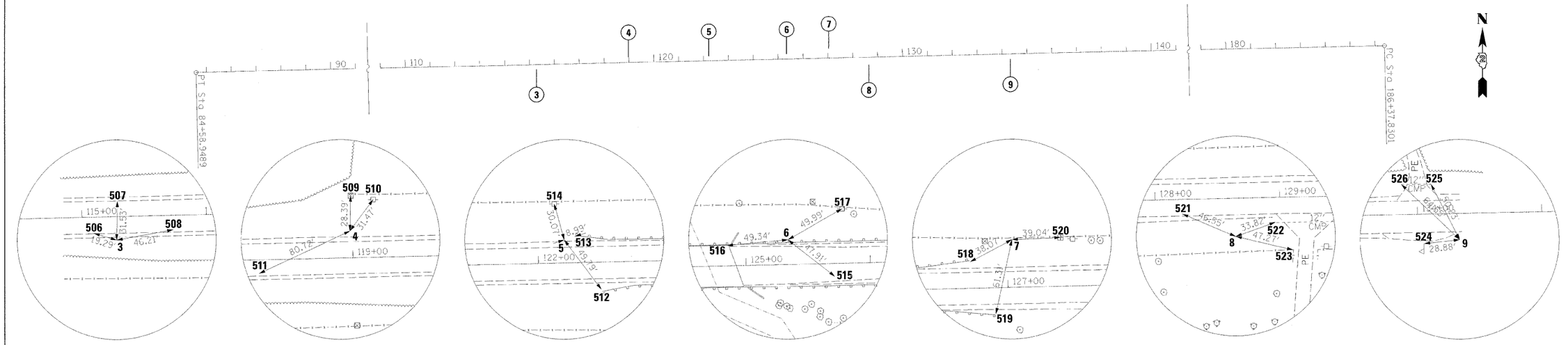
FILE NAME = $FILEL$	USER NAME = $USER$	DESIGNED -	REVISED -
		DRAWN	REVISED -
	PLOT SCALE = $SCALE$	CHECKED -	REVISED -
	PLOT DATE = $DATE$	DATE -	REVISED -

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

TYPICAL SECTIONS

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

F.A.P RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
17	101BR-4	OGLE	60	12
		CONTRACT NO. 64D11		
FED. ROAD DIST. NO.	ILLINOIS	FED. AID PROJECT		



HORIZONTAL CONTROL POINT No. 3

HORIZONTAL CONTROL POINT No. 4

HORIZONTAL CONTROL POINT No. 5

HORIZONTAL CONTROL POINT No. 6

HORIZONTAL CONTROL POINT No. 7

HORIZONTAL CONTROL POINT No. 8

HORIZONTAL CONTROL POINT No. 9

HORIZONTAL CONTROL POINTS

POINT	NORTH	EAST	ELEVATION	CHAIN	STATION	OFFSET	DESCRIPTION
3	1962839.7700	2438813.3260	792.3180	IL64	115+27.5118	18.8666' RT	TOPO SURVEY POINT, PIN
4	1962888.4440	2439182.9000	785.2780	IL64	118+98.0744	21.5984' LT	TOPO SURVEY POINT, PIN
5	1962892.5940	2439505.9100	786.6330	IL64	122+21.0970	18.5831' LT	TOPO SURVEY POINT, PIN
6	1962900.9240	2439818.9430	792.0830	IL64	125+34.2378	19.968' LT	TOPO SURVEY POINT, PIN
7	1962923.2200	2439988.1810	801.1710	IL64	127+03.9286	38.5049' LT	TOPO SURVEY POINT, PIN
8	1962857.4660	2440149.9160	805.9850	IL64	128+64.1655	30.8202' RT	TOPO SURVEY POINT, PIN
9	1962879.8280	2440718.9510	827.7160	IL64	134+33.5565	21.0847' RT	TOPO SURVEY POINT, PIN

BENCH MARKS

POINT	NORTH	EAST	ELEVATION	CHAIN	STATION	OFFSET	DESCRIPTION
401	1962849.0935	2436614.6498	864.2030	IL64	93+29.5832	39.2207' LT	R.O.W. MARKER, TOP
404	1962914.2520	2439202.6206	785.4182	IL64	119+18.3626	46.9626' LT	BENCH TIE, POWER POLE
406	1962921.9167	2439966.4583	800.9745	IL64	126+82.1824	37.6837' LT	R.O.W. MARKER, TOP
409	1962939.2117	2440495.6361	825.0924	IL64	132+11.6136	43.2374' LT	R.O.W. MARKER, TOP
468	1962869.8555	2441084.8084	833.1185	IL64	137+99.1027	39.1694' RT	BENCH TIE, POWER POLE

APPARENT PROPERTY CORNERS

POINT	NORTH	EAST	ELEVATION	CHAIN	STATION	OFFSET	DESCRIPTION
700	1962922.5634	2439966.5355	799.8783	IL64	126+82.2739	38.3286' LT	R.O.W. CORNER, PIN

REFERENCE TIES

POINT	CHAIN	STATION	OFFSET	DESCRIPTION
506	IL64	115+09.1880	12.8421' RT	SHINER, PK NAIL
507	IL64	115+28.7501	12.6383' LT	SHINER, PK NAIL
508	IL64	115+73.1225	11.4588' RT	PAVEMENT STATION NUMBER
509	IL64	118+99.2432	49.9689' LT	R.O.W. MARKER, BACK
510	IL64	119+17.3081	46.5023' LT	POWER POLE
511	IL64	118+24.3117	11.1854' RT	PAVEMENT STATION NUMBER
512	IL64	122+49.9844	21.9738' RT	GUARDRAIL STEEL PLATE BEAM, END
513	IL64	122+29.7170	21.137' LT	GUARDRAIL STEEL PLATE BEAM, END
514	IL64	122+13.6266	47.7116' LT	POWER POLE
515	IL64	125+71.2285	10.4741' RT	PAVEMENT STATION NUMBER
516	IL64	124+85.0120	16.5842' LT	BRIDGE DECK, CORNER
517	IL64	125+78.1882	43.7864' LT	POWER POLE
518	IL64	126+69.9813	21.2705' LT	GUARDRAIL STEEL PLATE BEAM, END
519	IL64	126+89.8115	21.1548' RT	GUARDRAIL STEEL PLATE BEAM, END
520	IL64	127+42.9624	39.1139' LT	TELEPHONE SPLICE BOX
521	IL64	128+21.6102	11.9447' RT	PAVEMENT STATION NUMBER
522	IL64	128+96.2546	20.1389' RT	PIPE CULVERT, CMP
523	IL64	129+09.9630	42.5335' RT	FENCE CORNER
524	IL64	134+04.7817	23.5972' RT	MAILBOX
525	IL64	134+11.4045	23.9931' LT	PIPE CULVERT, CMP
526	IL64	133+87.6431	24.282' LT	PIPE CULVERT, CMP

Chain IL64 contains: 203 212

Beginning chain IL64 description

Point 203 N 1,962,790.5720 E 2,435,745.0995 Sta 84+58.9489

Course from 203 to 212 N 88° 43' 44.73" E Dist 10,178.8812

Point 212 N 1,963,016.3370 E 2,445,921.4767 Sta 186+37.8301

Ending chain IL64 description

FILE NAME = $FILEL$	USER NAME = $USER$	DESIGNED -	REVISED -	STATE OF ILLINOIS DEPARTMENT OF TRANSPORTATION	HORIZONTAL & VERTICAL CONTROL	F.A.P RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
		DRAWN -	REVISED -			17	101BR-4	OGLE	60	13
	PLOT SCALE = $SCALE$	CHECKED -	REVISED -					CONTRACT NO. 64D11		
	PLOT DATE = $DATE$	DATE -	REVISED -		SCALE: NTS / SHEET NO. 1 OF 1 SHEETS / STA. / TO STA.	FED. ROAD DIST. NO.	ILLINOIS	FED. AID PROJECT		

LEGEND

APPROACH SLAB REMOVAL

PAVEMENT REMOVAL

HOT-MIX ASPHALT SURFACE REMOVAL, VARIABLE DEPTH

12" TREE REMOVAL, OF DIAMETER INDICATED

GENTRY, SHIRLEY M. TRUSTEE B

GENTRY, SHIRLEY M. TRUSTEE B

BROOKS, JOEL L.

GOVE, JUDITH A.

GENTRY, LOWELL

FIVE MILE CREEK

BEGIN IMPROVEMENT STA. 120+32.51

END IMPROVEMENT STA. 128+50

IL RTE 64

PIPE TABLE

STRUCTURE		PIPE				INVERT		TRENCH
U.S.	D.S.	LENGTH	TYPE	DIA.	SLOPE	U.S.	D.S.	BACKFILL
10	11	14	2	12"	1.00%	785.96	785.82	1.1
12	13	22	3	12"	1.00%	778.38	778.16	8.0

RIGHT OF WAY TABLE

	LEFT			RIGHT	
	STATION	OFFSET		STATION	OFFSET
TEMPORARY EASEMENTS					
A1	123+00	50'	A	123+53.36	55'
B1	124+00	200'	B	123+80	110'
C1	125+10	200'	C	126+00	110'
D1	126+50	60'	D	126+50	68.09'
PROPOSED ROW					
E1	123+50	50'	E	123+53.36	55'
F1	123+75	60'	F	123+90	80'
G1	128+30	60'	G	125+75	80'
H1	128+50	40.81'	H	128+50	40'

STRUCTURE TABLE

STR. #	STATION	OFFSET	TYPE	FRAME	RIM EL.	N. INV.	S. INV.
10	123+87.31	-30.5	FES 12				785.82
11	123+87.31	-16	IN B	20	789.46	785.96	
12	123+98.95	16	IN B	20	789.67		778.38
13	123+98.95	37.9	FES 12			778.16	

1 PROP PPC BULB-T BEAM BRIDGE STA. 124+91 @ 20° SKEW H
LENGTH = 103' - 2 1/4" B-B (SEE BRIDGE PLANS) S.N. 071-0095

PROFILE

ex = 0.98'
K = 130
320.00' V.C.

ex = 0.76'
K = 169
320.00' V.C.

EX ℄ PGL

PR ℄ PGL

MATCH EX DITCH

PR RT. DITCH

PR LT. DITCH

48" @ 0.80%

D.H.W.E. 781.9

STREAM BED EL=772.8

UNDERCUT FROM EXISTING ABUTMENT TO 9' BEYOND PROPOSED SLOPEWALL TO AN ELEVATION OF 756.66 (SEE STRUCTURE PLANS)

FILE NAME = $FILEL$	USER NAME = $USER$	DESIGNED -	REVISED -	
		CHECKED -	REVISED -	
	PLOT SCALE = $SCALE$	DRAWN -	REVISED -	
	PLOT DATE = $DATE$	CHECKED -	REVISED -	

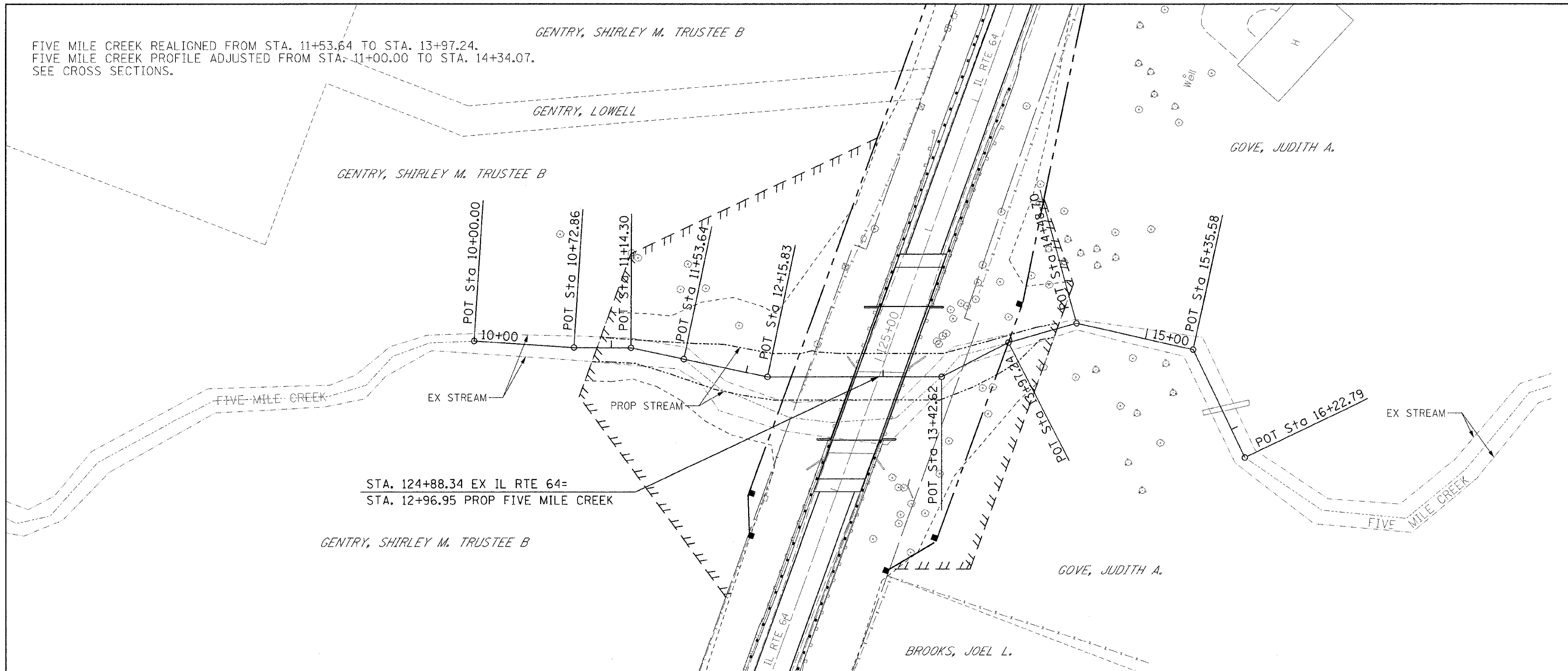
STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

PLAN AND PROFILE – IL RTE 64

SCALE: 1"=50' | SHEET NO. OF SHEETS | STA. 117+00 TO STA. 132+00

F.A.P RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
17	101BR-4	OGLE	60	14
		CONTRACT NO. 64D11		
FED. ROAD DIST. NO.	ILLINOIS	FED. AID PROJECT		

FIVE MILE CREEK REALIGNED FROM STA. 11+53.64 TO STA. 13+97.24.
FIVE MILE CREEK PROFILE ADJUSTED FROM STA. 11+00.00 TO STA. 14+34.07.
SEE CROSS SECTIONS.

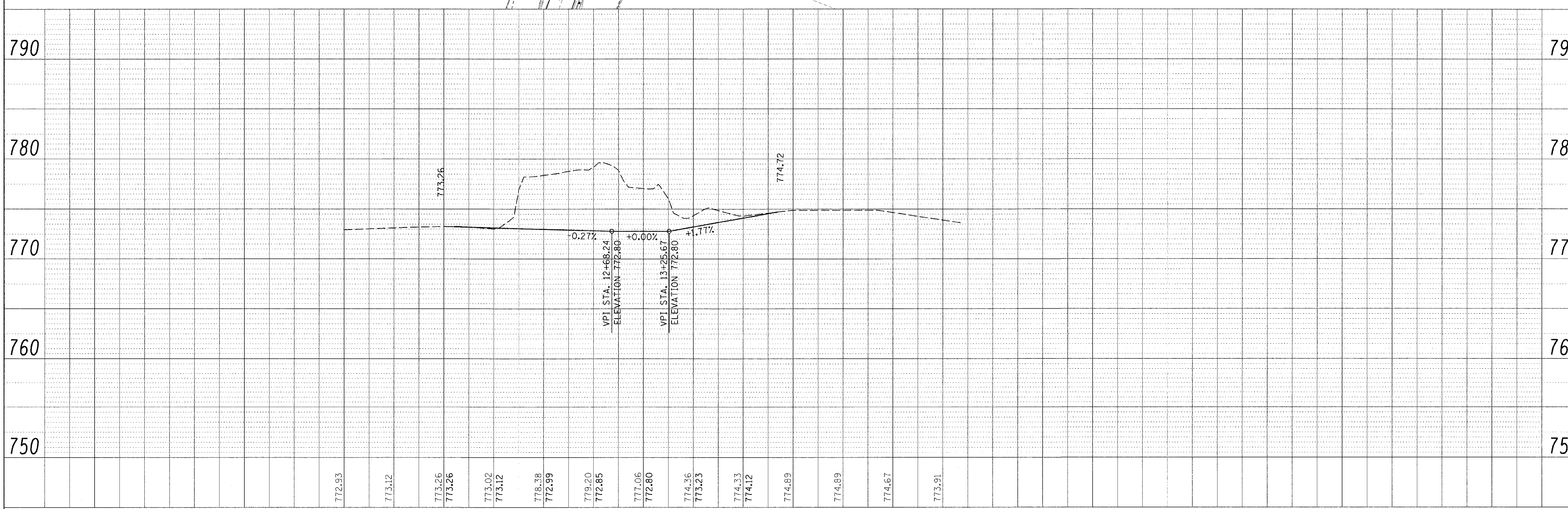


Chain PSTRM contains:
4086 4085 4079 4076 80000 80001 80002 2458 2466 2473

Beginning chain PSTRM description

Point 4086	N 1,963,163.9220	E 2,439,690.9890	Sta	10+00.00
Course from 4086 to 4085 S 17° 31' 40.00" E Dist 72.8630				
Point 4085	N 1,963,094.4420	E 2,439,712.9330	Sta	10+72.86
Course from 4085 to 4079 S 20° 59' 10.28" E Dist 41.4388				
Point 4079	N 1,963,055.7520	E 2,439,727.7740	Sta	11+14.30
Course from 4079 to 4076 S 9° 14' 08.94" E Dist 39.3400				
Point 4076	N 1,963,016.9220	E 2,439,734.0880	Sta	11+53.64
Course from 4076 to 80000 S 9° 14' 08.94" E Dist 62.1896				
Point 80000	N 1,962,955.5386	E 2,439,744.0693	Sta	12+15.83
Course from 80000 to 80001 S 21° 16' 15.27" E Dist 126.7848				
Point 80001	N 1,962,837.3909	E 2,439,790.0641	Sta	13+42.62
Course from 80001 to 80002 S 48° 30' 23.02" E Dist 54.6272				
Point 80002	N 1,962,801.1984	E 2,439,830.9815	Sta	13+97.24
Course from 80002 to 2458 S 36° 43' 38.42" E Dist 51.4534				
Point 2458	N 1,962,759.9590	E 2,439,861.7510	Sta	14+48.70
Course from 2458 to 2466 S 8° 44' 04.31" E Dist 86.8846				
Point 2466	N 1,962,674.0820	E 2,439,874.9450	Sta	15+35.58
Course from 2466 to 2473 S 43° 08' 20.39" W Dist 87.2047				
Point 2473	N 1,962,610.4490	E 2,439,815.3170	Sta	16+22.79

Ending chain PSTRM description



PLAN — NOTE BOOK NO. — SURVEYED / PLOTTED / ALIGNMENT CHECKED / RT. OF WAY CHECKED / CARD FILE NAME — BY — DATE

PROFILE — NOTE BOOK NO. — SURVEYED / PLOTTED / GRADES CHECKED / B.M. NOTED / STRUCTURE NOTATIONS CHKD. — BY — DATE

FILE NAME = $FILE$	USER NAME = $USER$	DESIGNED -	REVISED -
		CHECKED -	REVISED -
	PLOT SCALE = $SCALE$	DRAWN -	REVISED -
	PLOT DATE = $DATE$	CHECKED -	REVISED -

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

PLAN AND PROFILE

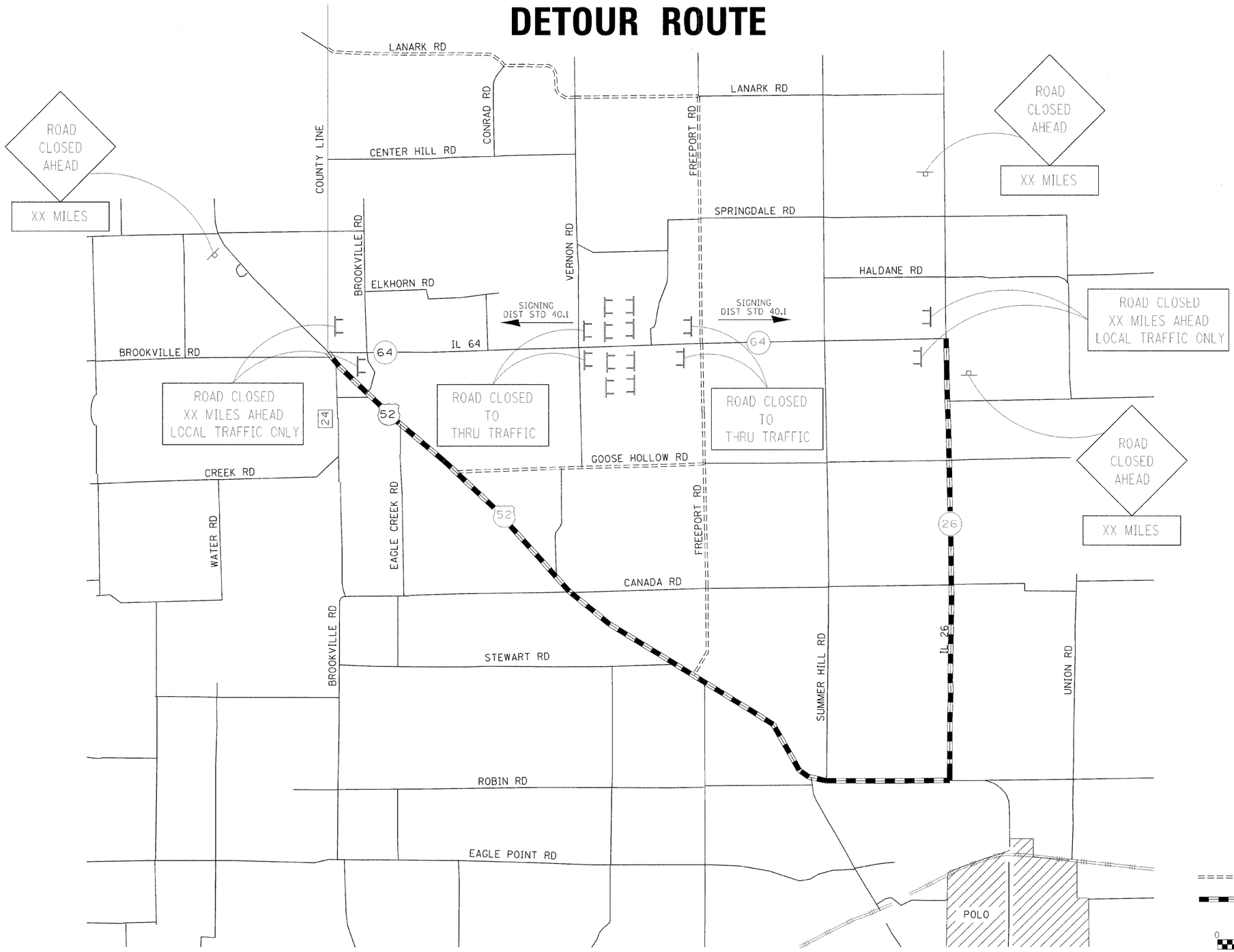
SCALE: 1:50 | SHEET NO. OF SHEETS | STA. 10+00.00 TO STA. 16+22.79

F.A.P RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
17	101BR-4	OGLE	60	15

CONTRACT NO. 64D11

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

DETOUR ROUTE



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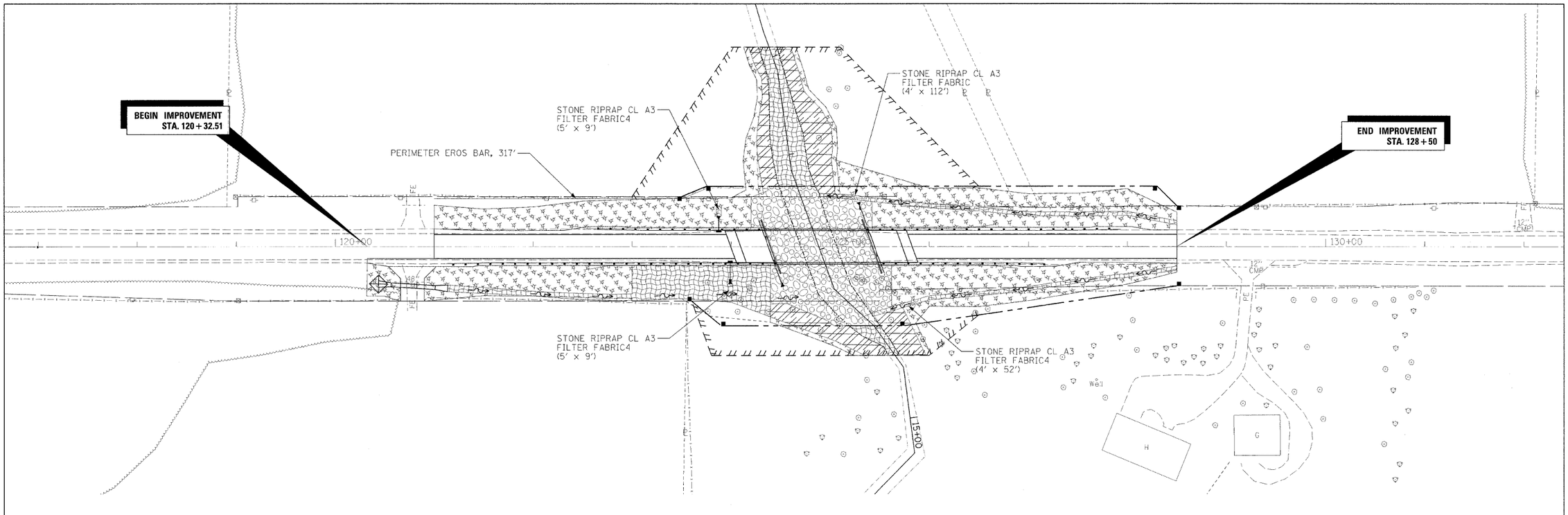
		DRAWN -	REVISED -			17	101BR-4	OGLE	60	16
	PLOT SCALE = $SCALE$	CHECKED -	REVISED -					CONTRACT NO. 64D11		
	PLOT DATE = @DATE$	DATE -	REVISED -		SCALE: SHEET NO. OF SHEETS STA. TO STA.	FED. ROAD DIST. NO.	ILLINOIS	FED. AID PROJECT		



LEGEND

- STONE RIPRAP, CLASS AS SPECIFIED
- MULCH, METHOD 2
- TURF REINFORCEMENT MAT
- EROSION CONTROL BLANKET
- INLET AND PIPE PROTECTION
- PERIMETER EROSION BARRIER

GENERAL NOTES

SEE SCHEDULE OF QUANTITIES FOR LOCATIONS OF TEMPORARY DITCH CHECKS.

EROSION CONTROL -
UNLESS NOTED OTHERWISE BELOW, MULCH, METHOD 2 SHALL BE USED WITH ALL SEEDING OPERATIONS.

IL RTE 64
1. EROSION CONTROL BLANKET SHALL BE USED ON ALL SLOPES STEEPER THAN 3:1 AND ON THE BOTTOM OF ALL DITCHES.

FIVE MILE CREEK
1. HEAVY DUTY EROSION CONTROL BLANKET TO BE USED ON CREEK BED BETWEEN PROPOSED ROW AND TEMPORARY EASEMENT.
2. TURF REINFORCEMENT MAT TO BE USED ON PROPOSED CHANNEL FORESLOPES WHERE RIPRAP IS NOT PRESENT.

SEEDING-
UNLESS NOTED OTHERWISE BELOW, SEEDING SHALL BE IN ACCORDANCE WITH GENERAL NOTE REGARDING SEEDING.

FIVE MILE CREEK
1. 5' STRIP OF LAND ON EITHER SIDE OF THE TOP OF PROPOSED CHANNEL FORESLOPE SHALL BE SEEDED WITH SEEDING, CLASS 4.

FILE NAME = $FILE$	USER NAME = $USER$	DESIGNED -	REVISED -
		DRAWN -	REVISED -
	PLOT SCALE = $SCALE$	CHECKED -	REVISED -
	PLOT DATE = $DATE$	DATE -	REVISED -

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

EROSION CONTROL

SCALE: 1"=50' | SHEET NO. 1 OF 1 SHEETS | STA. | TO STA.

F.A.P RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
17	101BR-4	OGLE	60	17
		CONTRACT NO. 64D11		
FED. ROAD DIST. NO.	ILLINOIS	FED. AID PROJECT		

BENCH MARK: #406, TOP OF R.O.W. MARKER . STATION 126+82.18, 37.68' LT. ELEV. 800.975

EXISTING STRUCTURE: S.N. 071-0013
ORIGINALLY CONSTRUCTED IN 1935 AS F.A.P. 17, SECTION 101B. THE STRUCTURE WAS RECONSTRUCTED IN 1972 (SUPERSTRUCTURE REPLACEMENT) AND REHABILITATED IN 1989 (NEW CONCRETE OVERLAY). THE EXISTING STRUCTURE IS A SINGLE SPAN 27" DEEP x 36" WIDE PPC DECK BEAM SUPERSTRUCTURE (11 BEAM LINES) WITH A 5" CONCRETE OVERLAY SET ON THE ORIGINAL REINFORCED CONCRETE FULL HEIGHT ABUTMENTS FOUNDED ON SPREAD FOOTINGS KEYED INTO ROCK WITH A 20 DEGREE SKEW LEFT. BACK-TO-BACK ABUTMENT LENGTH IS 62'-10½". THE OUT-TO-OUT DECK IS 33'-0". EXISTING STRUCTURE IS TO BE REMOVED AND REPLACED USING A DETOUR.

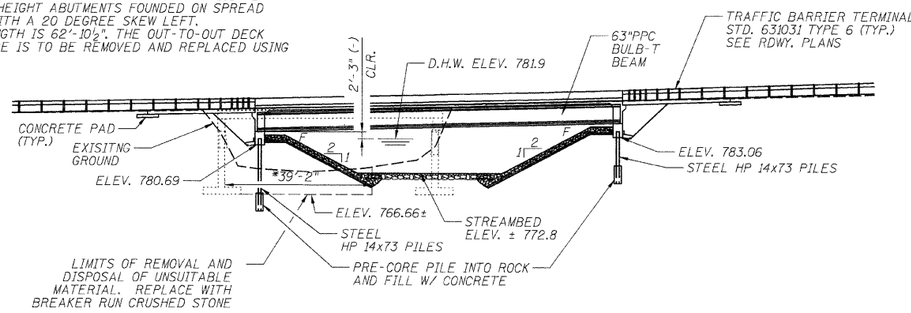
NO SALVAGE

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

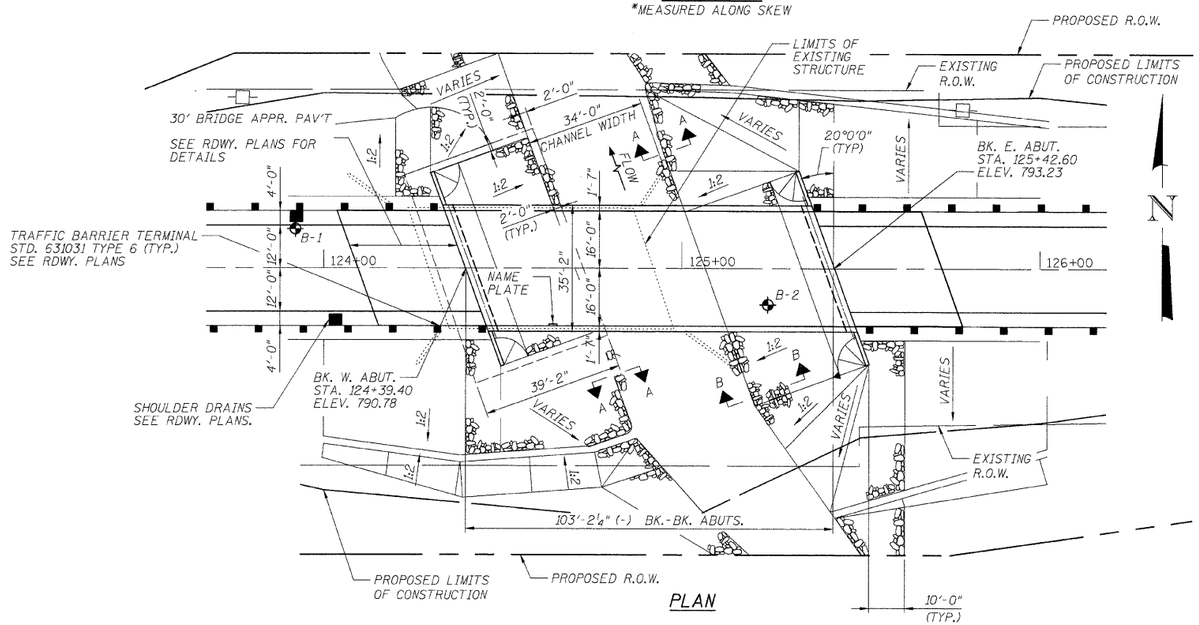
ROUTE NO.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
F.A.P. 17	101BR-4	OGLE	60	18
FED. ROAD DIST. NO. 2	ILLINOIS	FED. AID PROJECT-		

SHEET NO. 1
SHEETS 19

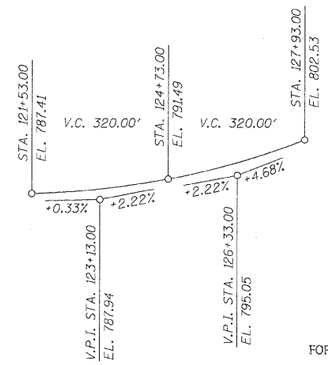
Contract # 64D11



ELEVATION
*MEASURED ALONG SKEW



PLAN



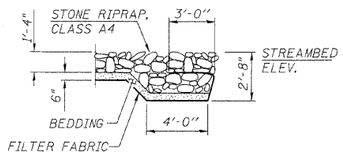
PROFILE GRADE
(ALONG ℄ ROADWAY)

APPROVED
FOR STRUCTURAL ADEQUACY ONLY
Ralph E. Anderson (TSD)
ENGINEER OF BRIDGES AND STRUCTURES

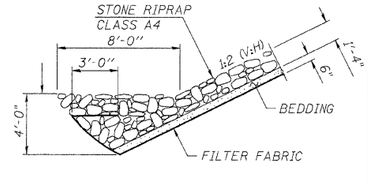
STATION 124+91.00
BUILT BY
STATE OF ILLINOIS
F.A.P. RT. 17 SECTION 101BR-4
LOADING HL-93
STRUCTURE NO. 071-0095

NAME PLATE
See Std. 515001

INDEX OF SHEETS



SECTION A-A



SECTION B-B

DLZ ILLINOIS, INC.
ARLINGTON HEIGHTS, ILLINOIS
Signed : Peter B. Lombardi
Date : Oct. 24, 2008
Expiration Date : 11/30/08
STATE OF ILLINOIS PETER B. LOMBARDI 6519 REGISTERED STRUCTURAL ENGINEER

BILL OF MATERIALS

ITEM	UNIT	SUPER	SUB	TOTAL
REMOVAL AND DISPOSAL OF UNSUITABLE MATERIAL	CU YD	0	750	750
STONE RIP RAP,CLASS A4	SQ YD	0	1,490	1,490
FILTER FABRIC	SQ YD	0	1,490	1,490
REMOVAL OF EXISTING STRUCTURES NO.1	EACH	1	0	1
STRUCTURE EXCAVATION	CU YD	0	260	260
CONCRETE STRUCTURES	CU YD	0	44.3	44.3
CONCRETE SUPERSTRUCTURE	CU YD	167.9	0	167.9
BRIDGE DECK GROOVING	SQ YD	344	0	344
CONCRETE ENCASEMENT	CU YD	0	6.6	6.6
PROTECTIVE COAT	SQ YD	464	0	464
FURNISHING AND ERECTING PRECAST PRESTRESSED CONCRETE BULB T-BEAMS 63"	FOOT	608	0	608
REINFORCEMENT BARS,EPOXY COATED	POUND	27,904	5,989	33,893
BAR SPLICERS	EACH	62	0	62
FURNISHING STEEL PILES HP 14 x 73	FOOT	0	259	259
NAME PLATES	EACH	1	0	1
GEOCOMPOSITE WALL DRAIN	SQ YD	0	120	120
PIPE UNDERDRAINS FOR STRUCTURES 4"	FOOT	0	115	115
ASBESTOS BEARING PAD REMOVAL	EACH	44	0	44
BREAKER RUN CRUSHED STONE	TON	0	1,220	1,220
SETTING PILES IN ROCK	EACH	0	14	14
POROUS GRANULAR EMBANKMENT,SPECIAL	CU YD	0	240	240
UNDERWATER STRUCTURE EXCAVATION PROTECTION	EACH	0	1	1

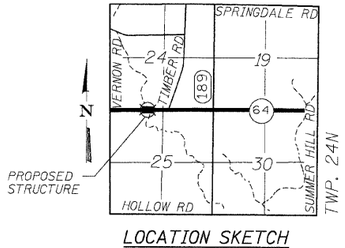
WATERWAY INFORMATION

EXIST. LOW GRADE ELEV. 793.2 @ STA. 151+75.4
DRAINAGE AREA = 13.1 SQ. MI. PROP. LOW GRADE ELEV. 793.4 @ STA. 151+00

FLOOD	FREQ. YR.	Q C.F.S.	OPENING SQ. FT. EXIST.	OPENING SQ. FT. PROP.	NAT. H.W.E.	HEAD - FT. Exist.	HEAD - FT. Prop.	HEADWATER EL. Exist.	HEADWATER EL. Prop.
TEN-YEAR	10	1607	417	426	781.2	0.3	0.2	781.5	781.4
DESIGN	50	2579	457	475	781.9	0.8	0.5	782.7	782.4
BASE	100	3018	471	493	782.2	1.0	0.7	783.2	782.9
MAX. CALC.	500	4110	502	536	782.7	1.6	1.1	784.3	783.8

10-YEAR VELOCITY THROUGH EXISTING STRUCTURE = 3.9 fps
10-YEAR VELOCITY THROUGH PROPOSED STRUCTURE = 3.8 fps

RANGE 7E - 3rd. PM



LOCATION SKETCH

GENERAL NOTES

1. REINFORCEMENT BARS SHALL CONFORM TO THE REQUIREMENTS OF ASTM A 706 GR 60. SEE SPECIAL PROVISIONS.

2. REINFORCEMENT BARS DESIGNATED (E) SHALL BE EPOXY COATED.

3. LAYOUT OF SLOPE PROTECTION SYSTEM MAY BE VARIED TO SUIT GROUND CONDITIONS IN THE FIELD AS DIRECTED BY THE ENGINEER.

4. THE EMBANKMENT CONFIGURATION SHOWN SHALL BE THE MINIMUM THAT MUST BE PLACED AND COMPACTED PRIOR TO CONSTRUCTION OF THE ABUTMENTS.

5. 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 REMOVAL OF THE SUPERSTRUCTURE.

6. ALL EMBEDDED AND SEPARATE BEARING PLATES, SIDE RETAINERS, ANCHOR BOLTS, NUTS, WASHERS, AND PINTLES SHALL BE GALVANIZED ACCORDING TO AASHTO M111 OR M232 (AS APPLICABLE).

7. THE PRECORED HOLES FOR PILES, FROM 6 INCHES ABOVE THE TOP OF BEDROCK TO THE BOTTOM OF THE ABUTMENTS, SHALL BE FILLED WITH DRY LOOSE POROUS GRANULAR EMBANKMENT MATERIAL MEETING THE REQUIREMENTS OF FA-1 OR FA-2 GRADATION.

DESIGNED	ASP
CHECKED	WSP
DRAWN	BEM
CHECKED	ASP

SEISMIC DATA

SEISMIC PERFORMANCE ZONE (SPZ)=1
BEDROCK ACCELERATION COEFFICIENT (A) = 0.03g
SITE COEFFICIENT (S) = 1.0

DESIGN STRESSES

FIELD UNITS

f'c = 3,500 psi
fy = 60,000 psi (REINFORCEMENT)

PRECAST PRESTRESSED UNITS

f'c = 6,000 psi
f'ci = 5,000 psi
fpu = 270,000 psi (½" Ø LOW LAX. STRANDS)
fpbt = 201,960 psi (½" Ø LOW LAX. STRANDS)

DESIGN SCOUR ELEVATION TABLE

DESIGN SCOUR ELEVATION (FT.)	W. ABUT.	E. ABUT.
	780.69	783.06

DESIGN SPECIFICATIONS

2007 AASHTO LRFD SPECIFICATIONS, 4TH EDITION, WITH INTERIMS.

LOADING HL-93

ALLOW 50#/sq. ft. FOR FUTURE WEARING SURFACE.

GENERAL PLAN AND ELEVATION
IL 64 OVER FIVE MILE CREEK
F.A.P. RT. 17 SECTION 101BR-4
OGLE COUNTY
STATION 124+91.00
STRUCTURE NO. 071-0095

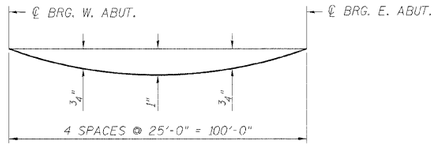
DLZ Illinois, Inc. 85 W. Algonquin Rd. Ste. 220 Arlington Heights Il 60005

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

ROUTE NO.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
F.A.P. 17	101BR-4	OGLE	60	19
FED. ROAD DIST. NO. 2	ILLINOIS	FED. AID PROJECT=		

SHEET NO. 2
SHEETS 19

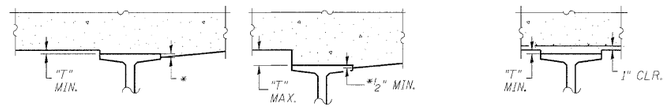
Contract # 64D11



DEAD LOAD DEFLECTION DIAGRAM

(INCLUDES WEIGHT OF CONCRETE ONLY.)

NOTE:
THE ABOVE DEFLECTIONS ARE NOT TO BE USED IN THE FIELD IF THE ENGINEER IS WORKING FROM THE GRADE ELEVATIONS ADJUSTED FOR DEAD LOAD DEFLECTIONS AS SHOWN BELOW.



* VARIABLE (NOT LESS THAN 1/2")

AT MINIMUM FILLET AT MAXIMUM FILLET

EXTERIOR BEAMS INTERIOR BEAMS

METHOD OF DETERMINING FILLET HEIGHTS "T"

AFTER ALL BEAMS HAVE BEEN ERECTED, ELEVATIONS OF THE TOP FLANGES OF THE BEAMS SHALL BE TAKEN AT THE INTERVALS SHOWN ON THE PLANS. THESE ELEVATIONS SUBTRACTED FROM THE "THEORETICAL GRADE ELEVATIONS ADJUSTED FOR DEAD LOAD DEFLECTION" SHOWN ON THE PLANS, MINUS SLAB THICKNESS EQUALS THE FILLET HEIGHTS "T" ABOVE TOP FLANGE OF BEAMS.

BEAM 1

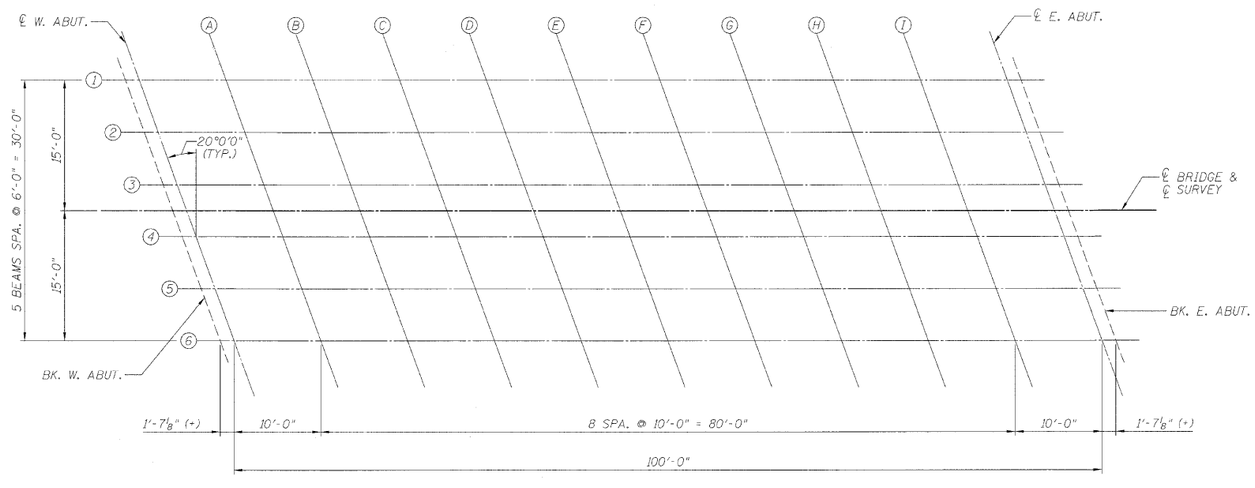
Location	Station	Offset	Theoretical Grade Elevations	Theoretical Grade Elevations Adjusted For Dead Load Deflection
BK. W. ABUT.	124+33.94	-15.00	790.42	790.42
℄ BRG. W. ABUT.	124+35.54	-15.00	790.45	790.45
A	124+45.54	-15.00	790.66	790.68
B	124+55.54	-15.00	790.87	790.91
C	124+65.54	-15.00	791.08	791.15
D	124+75.54	-15.00	791.30	791.38
E	124+85.54	-15.00	791.53	791.61
F	124+95.54	-15.00	791.77	791.84
G	125+05.54	-15.00	792.01	792.07
H	125+15.54	-15.00	792.26	792.31
I	125+25.54	-15.00	792.52	792.55
℄ BRG. E. ABUT.	125+35.54	-15.00	792.79	792.79
BK. E. ABUT.	125+37.14	-15.00	792.83	792.83

BEAM 2

Location	Station	Offset	Theoretical Grade Elevations	Theoretical Grade Elevations Adjusted For Dead Load Deflection
BK. W. ABUT.	124+36.13	-9.00	790.58	790.58
℄ BRG. W. ABUT.	124+37.72	-9.00	790.61	790.61
A	124+47.72	-9.00	790.81	790.84
B	124+57.72	-9.00	791.02	791.08
C	124+67.72	-9.00	791.24	791.31
D	124+77.72	-9.00	791.46	791.54
E	124+87.72	-9.00	791.69	791.78
F	124+97.72	-9.00	791.93	792.01
G	125+07.72	-9.00	792.17	792.24
H	125+17.72	-9.00	792.43	792.48
I	125+27.72	-9.00	792.69	792.72
℄ BRG. E. ABUT.	125+37.72	-9.00	792.95	792.95
BK. E. ABUT.	125+39.32	-9.00	793.00	793.00

BEAM 3

Location	Station	Offset	Theoretical Grade Elevations	Theoretical Grade Elevations Adjusted For Dead Load Deflection
BK. W. ABUT.	124+38.31	-3.00	790.71	790.71
℄ BRG. W. ABUT.	124+39.91	-3.00	790.75	790.75
A	124+49.91	-3.00	790.95	790.98
B	124+59.91	-3.00	791.16	791.22
C	124+69.91	-3.00	791.38	791.45
D	124+79.91	-3.00	791.60	791.68
E	124+89.91	-3.00	791.84	791.92
F	124+99.91	-3.00	792.07	792.16
G	125+09.91	-3.00	792.32	792.39
H	125+19.91	-3.00	792.58	792.63
I	125+29.91	-3.00	792.84	792.87
℄ BRG. E. ABUT.	125+39.91	-3.00	793.11	793.11
BK. E. ABUT.	125+41.50	-3.00	793.15	793.15



PLAN

N

TOP OF SLAB ELEVATIONS
IL 64 OVER FIVE MILE CREEK
F.A.P. RT. 17 SECTION 101BR-4
OGLE COUNTY
STATION 124+91.00
STRUCTURE NO. 071-0095

DESIGNED	WSP
CHECKED	ASP
DRAWN	BEM
CHECKED	ASP

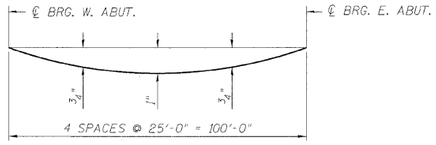
DLZ Illinois, Inc. 85 W. Algonquin Rd. Ste. 220 Arlington Heights Il 60005

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

ROUTE NO.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
F.A.P. 17	101BR-4	OGLE	60	20
FED. ROAD DIST. NO. 2	ILLINOIS	FED. AID PROJECT-		

SHEET NO. 3
SHEETS 19

Contract # 64D11



DEAD LOAD DEFLECTION DIAGRAM

(INCLUDES WEIGHT OF CONCRETE ONLY.)

NOTE:
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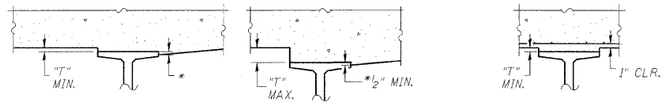


* VARIABLE (NOT LESS THAN ½")

AT MINIMUM FILLET — AT MAXIMUM FILLET

EXTERIOR BEAMS — INTERIOR BEAMS

METHOD OF DETERMINING FILLET HEIGHTS "T"

AFTER ALL BEAMS HAVE BEEN ERECTED, ELEVATIONS OF THE TOP FLANGES OF THE BEAMS SHALL BE TAKEN AT THE INTERVALS SHOWN ON THE PLANS. THESE ELEVATIONS SUBTRACTED FROM THE "THEORETICAL GRADE ELEVATIONS ADJUSTED FOR DEAD LOAD DEFLECTION" SHOWN ON THE PLANS, MINUS SLAB THICKNESS EQUALS THE FILLET HEIGHTS "T" ABOVE TOP FLANGE OF BEAMS.

℄ BRIDGE / SURVEY

Location	Station	Offset	Theoretical Grade Elevations	Theoretical Grade Elevations Adjusted For Dead Load Deflection
BK. W. ABUT.	124+39.40	0.00	790.78	790.78
℄ BRG. W. ABUT.	124+41.00	0.00	790.81	790.81
A	124+51.00	0.00	791.02	791.02
B	124+61.00	0.00	791.23	791.23
C	124+71.00	0.00	791.45	791.45
D	124+81.00	0.00	791.68	791.68
E	124+91.00	0.00	791.91	791.91
F	125+01.00	0.00	792.15	792.15
G	125+11.00	0.00	792.40	792.40
H	125+21.00	0.00	792.65	792.65
I	125+31.00	0.00	792.91	792.91
℄ BRG. E. ABUT.	125+41.00	0.00	793.18	793.18
BK. E. ABUT.	125+42.60	0.00	793.23	793.23

BEAM 4

Location	Station	Offset	Theoretical Grade Elevations	Theoretical Grade Elevations Adjusted For Dead Load Deflection
BK. W. ABUT.	124+40.50	3.00	790.76	790.76
℄ BRG. W. ABUT.	124+42.09	3.00	790.79	790.79
A	124+52.09	3.00	791.00	791.03
B	124+62.09	3.00	791.21	791.26
C	124+72.09	3.00	791.43	791.50
D	124+82.09	3.00	791.65	791.73
E	124+92.09	3.00	791.89	791.97
F	125+02.09	3.00	792.13	792.21
G	125+12.09	3.00	792.38	792.45
H	125+22.09	3.00	792.63	792.69
I	125+32.09	3.00	792.90	792.93
℄ BRG. E. ABUT.	125+42.09	3.00	793.17	793.17
BK. E. ABUT.	125+43.69	3.00	793.21	793.21

BEAM 5

Location	Station	Offset	Theoretical Grade Elevations	Theoretical Grade Elevations Adjusted For Dead Load Deflection
BK. W. ABUT.	124+42.68	9.00	790.71	790.71
℄ BRG. W. ABUT.	124+44.28	9.00	790.74	790.74
A	124+54.28	9.00	790.95	790.98
B	124+64.28	9.00	791.16	791.22
C	124+74.28	9.00	791.38	791.45
D	124+84.28	9.00	791.61	791.69
E	124+94.28	9.00	791.84	791.93
F	125+04.28	9.00	792.09	792.17
G	125+14.28	9.00	792.34	792.41
H	125+24.28	9.00	792.59	792.65
I	125+34.28	9.00	792.86	792.89
℄ BRG. E. ABUT.	125+44.28	9.00	793.13	793.13
BK. E. ABUT.	125+45.88	9.00	793.18	793.18

BEAM 6

Location	Station	Offset	Theoretical Grade Elevations	Theoretical Grade Elevations Adjusted For Dead Load Deflection
BK. W. ABUT.	124+44.86	15.00	790.64	790.64
℄ BRG. W. ABUT.	124+46.46	15.00	790.68	790.68
A	124+56.46	15.00	790.89	790.91
B	124+66.46	15.00	791.10	791.15
C	124+76.46	15.00	791.32	791.39
D	124+86.46	15.00	791.55	791.62
E	124+96.46	15.00	791.79	791.86
F	125+06.46	15.00	792.03	792.10
G	125+16.46	15.00	792.28	792.35
H	125+26.46	15.00	792.54	792.59
I	125+36.46	15.00	792.81	792.84
℄ BRG. E. ABUT.	125+46.46	15.00	793.08	793.08
BK. E. ABUT.	125+48.06	15.00	793.13	793.13

DESIGNED	WSP
CHECKED	ASP
DRAWN	BEM
CHECKED	ASP

TOP OF SLAB ELEVATIONS
IL 64 OVER FIVE MILE CREEK
F.A.P. RT. 17 SECTION 101BR-4
OGLE COUNTY
STATION 124+91.00
STRUCTURE NO. 071-0095

DLZ
DLZ Illinois, Inc.
85 W. Algonquin Rd. Ste. 220
Arlington Heights Il 60005

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

ROUTE NO.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
F.A.P. 17	101BR-4	OGLE	60	21
FED. ROAD DIST. NO. 2	ILLINOIS	FED. AID PROJECT-		

SHEET NO. 4
SHEETS 19

Contract # 64D11

WEST APPROACH

NORTH EDGE OF SHOULDER

Location	Station	Offset	Theoretical Grade Elevations
W. END WEST APPR. PAV'T.	124+03.58	-16.00	789.82
A1	124+13.58	-16.00	790.01
A2	124+23.58	-16.00	790.20
E. END WEST APPR. PAV'T.	124+33.58	-16.00	790.39

SOUTH EDGE OF PAVEMENT

Location	Station	Offset	Theoretical Grade Elevations
W. END WEST APPR. PAV'T.	124+13.77	12.00	790.10
A1	124+23.77	12.00	790.29
A2	124+33.77	12.00	790.48
E. END WEST APPR. PAV'T.	124+43.77	12.00	790.68

NORTH EDGE OF PAVEMENT

Location	Station	Offset	Theoretical Grade Elevations
W. END WEST APPR. PAV'T.	124+05.04	-12.00	789.93
A1	124+15.04	-12.00	790.12
A2	124+25.04	-12.00	790.31
E. END WEST APPR. PAV'T.	124+35.04	-12.00	790.51

SOUTH EDGE OF SHOULDER

Location	Station	Offset	Theoretical Grade Elevations
W. END WEST APPR. PAV'T.	124+15.23	16.00	790.04
A1	124+25.23	16.00	790.23
A2	124+35.23	16.00	790.43
E. END WEST APPR. PAV'T.	124+45.23	16.00	790.63

℄ BRIDGE & ℄ SURVEY

Location	Station	Offset	Theoretical Grade Elevations
W. END WEST APPR. PAV'T.	124+09.40	0.00	790.20
A1	124+19.40	0.00	790.39
A2	124+29.40	0.00	790.58
E. END WEST APPR. PAV'T.	124+39.40	0.00	790.78

EAST APPROACH

NORTH EDGE OF SHOULDER

Location	Station	Offset	Theoretical Grade Elevations
W. END EAST APPR. PAV'T.	125+36.77	-16.00	792.80
A3	125+46.77	-16.00	793.07
A4	125+56.77	-16.00	793.36
E. END EAST APPR. PAV'T.	125+66.77	-16.00	793.65

SOUTH EDGE OF PAVEMENT

Location	Station	Offset	Theoretical Grade Elevations
W. END EAST APPR. PAV'T.	125+46.96	12.00	793.16
A3	125+56.96	12.00	793.44
A4	125+66.96	12.00	793.73
E. END EAST APPR. PAV'T.	125+76.69	12.00	794.03

NORTH EDGE OF PAVEMENT

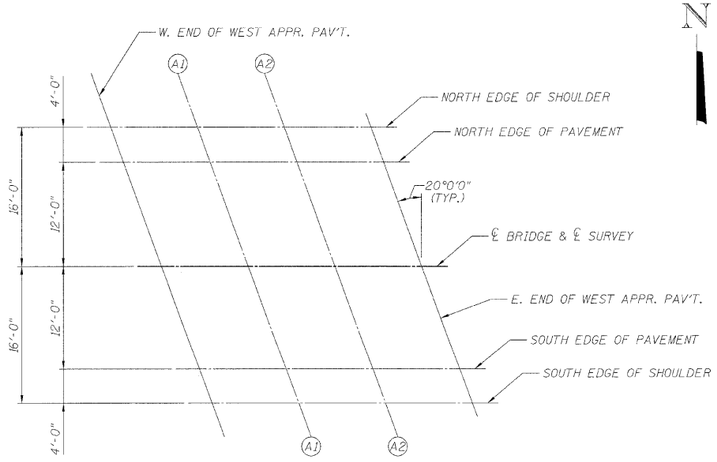
Location	Station	Offset	Theoretical Grade Elevations
W. END EAST APPR. PAV'T.	125+38.23	-12.00	792.92
A3	125+48.23	-12.00	793.20
A4	125+58.23	-12.00	793.48
E. END EAST APPR. PAV'T.	125+68.23	-12.00	793.77

SOUTH EDGE OF SHOULDER

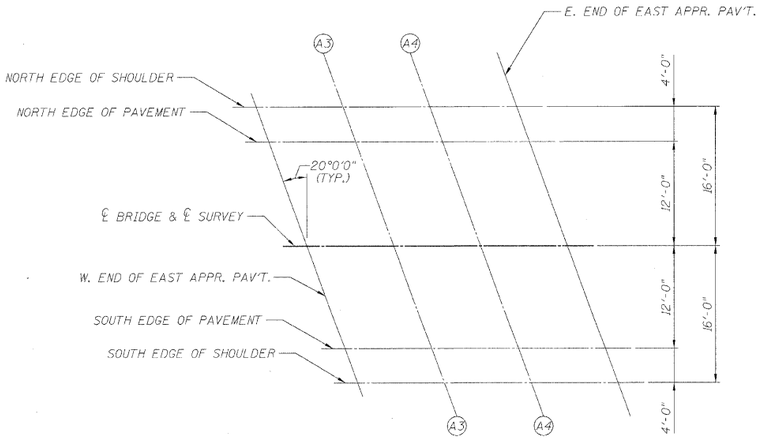
Location	Station	Offset	Theoretical Grade Elevations
W. END EAST APPR. PAV'T.	125+48.42	16.00	793.12
A3	125+58.42	16.00	793.40
A4	125+68.42	16.00	793.69
E. END EAST APPR. PAV'T.	125+78.42	16.00	793.99

℄ BRIDGE & ℄ SURVEY

Location	Station	Offset	Theoretical Grade Elevations
W. END EAST APPR. PAV'T.	125+42.60	0.00	793.23
A3	125+52.60	0.00	793.51
A4	125+62.60	0.00	793.79
E. END EAST APPR. PAV'T.	125+72.60	0.00	794.09



PLAN
(WEST APPROACH)



PLAN
(EAST APPROACH)

DESIGNED	WSP
CHECKED	ASP
DRAWN	BEM
CHECKED	ASP

TOP OF SLAB ELEVATIONS
IL 64 OVER FIVE MILE CREEK
F.A.P. RT. 17 SECTION 101BR-4
OGLE COUNTY
STATION 124+91.00
STRUCTURE NO. 071-0095

DLZ
DLZ Illinois, Inc.
85 W. Algonquin Rd. Ste. 220
Arlington Heights Il 60005

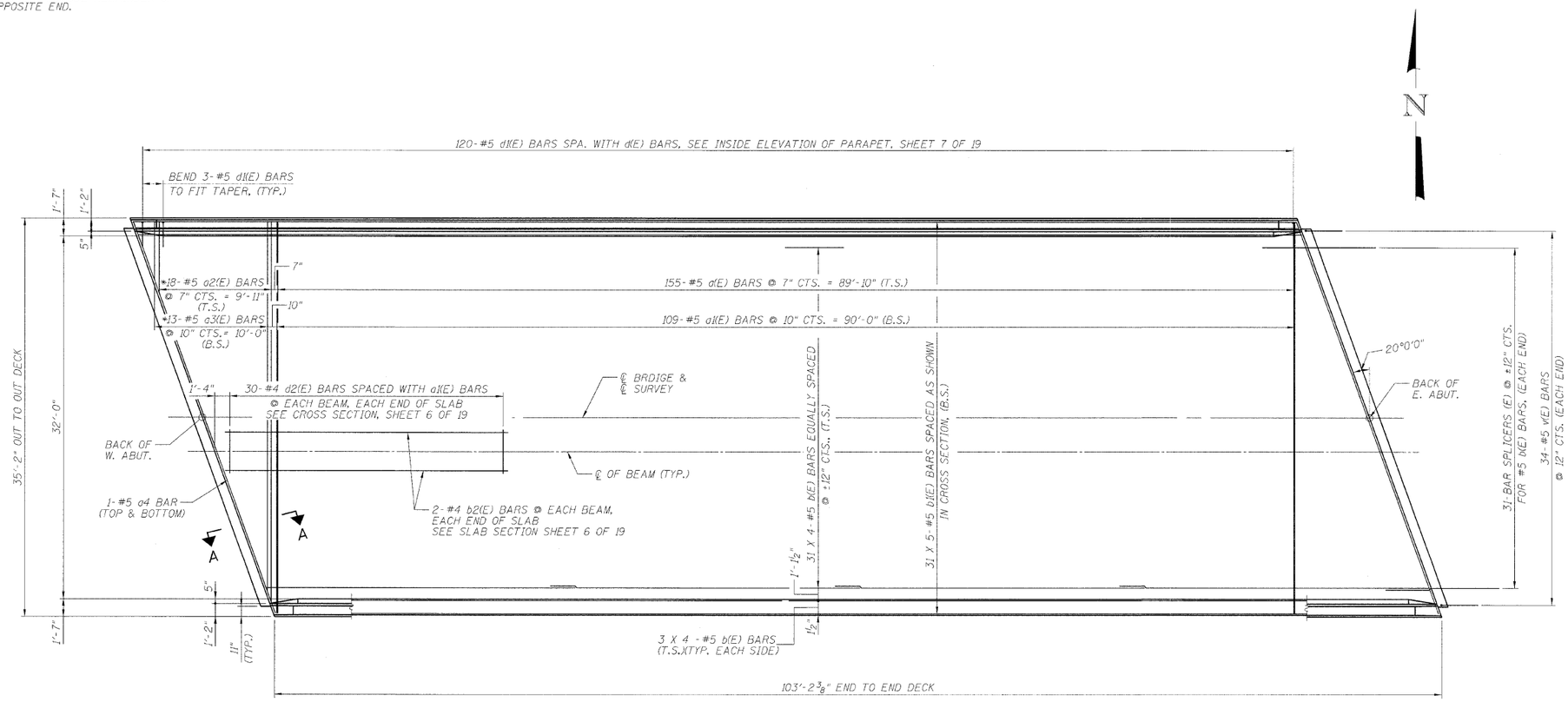
STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

ROUTE NO.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
F.A.P. 17	101BR-4	OGLE	60	22
FED. ROAD DIST. NO. 2	ILLINOIS	FED. AID PROJECT-		

SHEET NO. 5
SHEETS 19

Contract # 64D11

* ORDER a2(E) AND a3(E) BARS FULL LENGTH. CUT TO FIT SKEW AND USE REMAINDER OF BARS IN OPPOSITE END.



MIN. BAR LAP

#5 BAR = 2'-2"

PLAN

NOTES:

SEE SHEET 7 OF 19 FOR SUPERSTRUCTURE DETAILS AND BILL OF MATERIAL.

FOR SECTION A-A AND DIAPHRAGM DETAILS SEE SHEET 9 OF 19.

BARS INDICATED THUS 31 X 4-#5 ETC . INDICATES 31 LINES OF BARS WITH 4 LENGTHS PER LINE.

SEE SHEET 7 OF 19 FOR PARAPET REINFORCEMENT.

DESIGNED	ASP
CHECKED	WSP
DRAWN	BEM
CHECKED	ASP

SUPERSTRUCTURE-PLAN
IL 64 OVER FIVE MILE CREEK
F.A.P. RT. 17 SECTION 101BR-4
OGLE COUNTY
STATION 124+91.00
STRUCTURE NO. 071-0095

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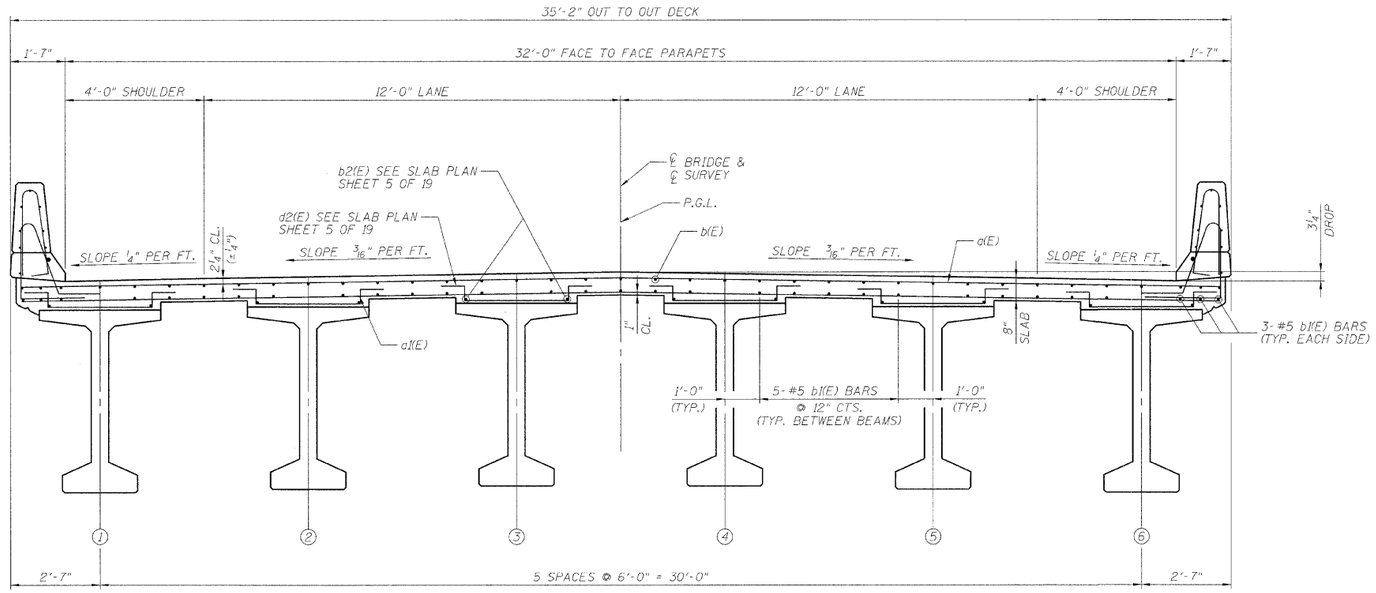
Arlington Heights Il 60005

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

ROUTE NO.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
F.A.P. 17	101BR-4	OGLE	60	23
FED. ROAD DIST. NO. 2	ILLINOIS	FED. AID PROJECT-		

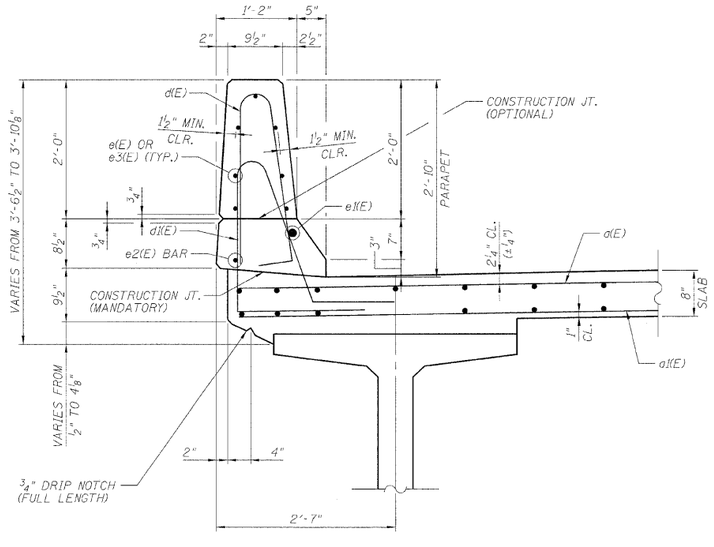
SHEET NO. 6
SHEETS 19

Contract # 64D11



CROSS SECTION

NOTE:
(1) DENOTES BEAM NUMBER



SECTION THRU PARAPET

DESIGNED	ASP
CHECKED	WSP
DRAWN	BEM
CHECKED	ASP

SUPERSTRUCTURE CROSS SECTION
IL 64 OVER FIVE MILE CREEK
F.A.P. RT. 17 SECTION 101BR-4
OGLE COUNTY
STATION 124+91.00
STRUCTURE NO. 071-0095

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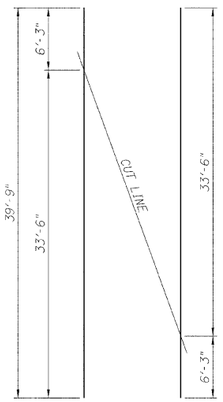
STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

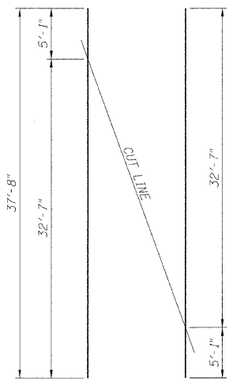
ROUTE NO.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
F.A.P. 17	101BR-4	OGLE	60	24
FED. ROAD DIST. NO. 2	ILLINOIS	FED. AID PROJECT-		

SHEET NO. 7
SHEETS 19

Contract # 64D11

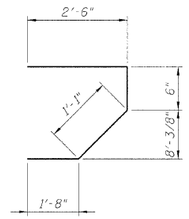


BARS a2
18 BARS - 1 SET
(USE REMAINDER OF BARS AT OPPOSITE END)

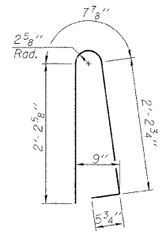


BARS a3
13 BARS - 1 SET
(USE REMAINDER OF BARS AT OPPOSITE END)

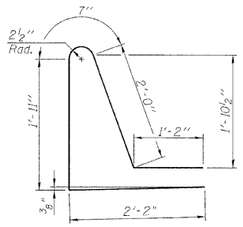
BAR CUTTING DIAGRAMS



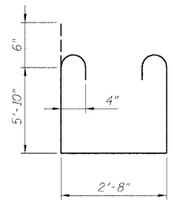
BAR s(E)



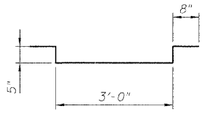
BAR d(E)



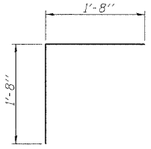
BAR d1(E)



BAR s1(E)



BAR d2(E)

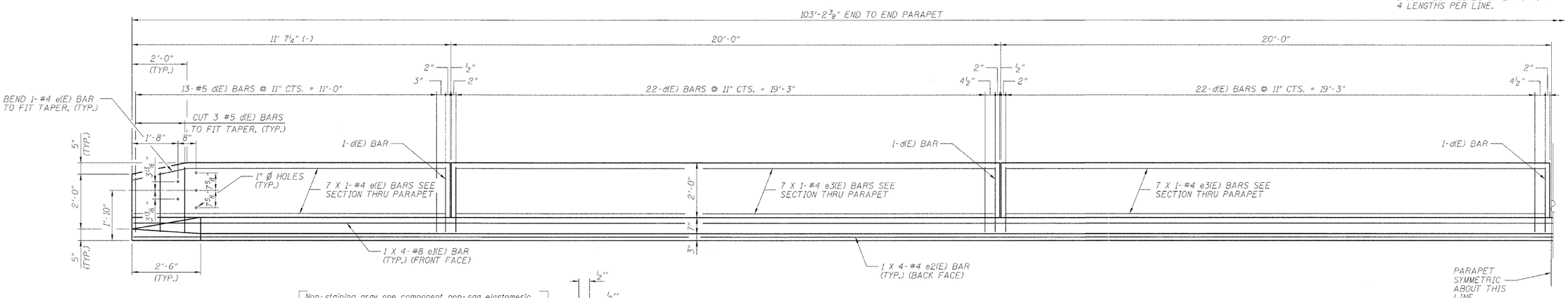


BAR v(E)

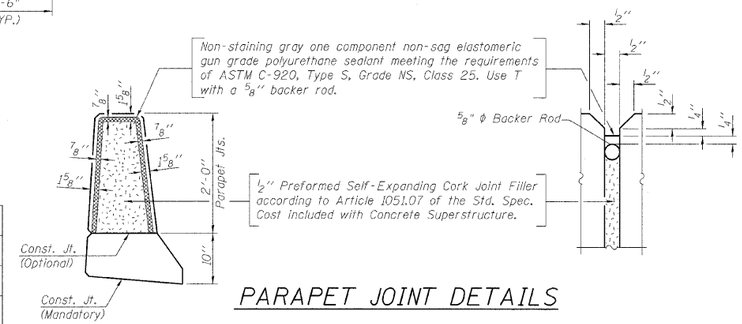
SUPERSTRUCTURE BILL OF MATERIAL

Bar	No.	Size	Length	Shape
d(E)	155	5	34'-6"	
d1(E)	109	5	34'-6"	
d2(E)	18	5	39'-9"	
d3(E)	13	5	37'-8"	
d4(E)	4	5	36'-9"	
b(E)	148	5	27'-4"	
b1(E)	155	5	22'-4"	
b2(E)	24	4	25'-0"	
d(E)	240	5	5'-7"	
d1(E)	240	5	7'-10"	
d2(E)	360	4	5'-2"	
e(E)	28	4	11'-4"	
e1(E)	8	8	28'-4"	
e2(E)	8	4	26'-9"	
e3(E)	56	4	19'-7"	
m(E)	4	6	37'-0"	
m1(E)	10	6	37'-0"	
m2(E)	48	6	8'-6"	
m3(E)	10	6	3'-9"	
m4(E)	4	6	1'-1"	
s(E)	72	5	5'-9"	
s1(E)	34	4	15'-4"	
v(E)	68	5	3'-4"	
Reinforcement Bars, Epoxy Coated			Lbs.	27,904
Concrete Superstructure			Cu. Yds.	167.9

BARS INDICATED THUS 7 X 4-#5 ETC. INDICATES 7 LINES OF BARS WITH 4 LENGTHS PER LINE.



INSIDE ELEVATION OF PARAPET



PARAPET JOINT DETAILS

DESIGNED	ASP
CHECKED	WSP
DRAWN	BLM
CHECKED	ASP

SUPERSTRUCTURE - DETAILS
IL 64 OVER FIVE MILE CREEK
F.A.P. RT. 17 SECTION 101BR-4
OGLE COUNTY
STATION 124+91.00
STRUCTURE NO. 071-0095

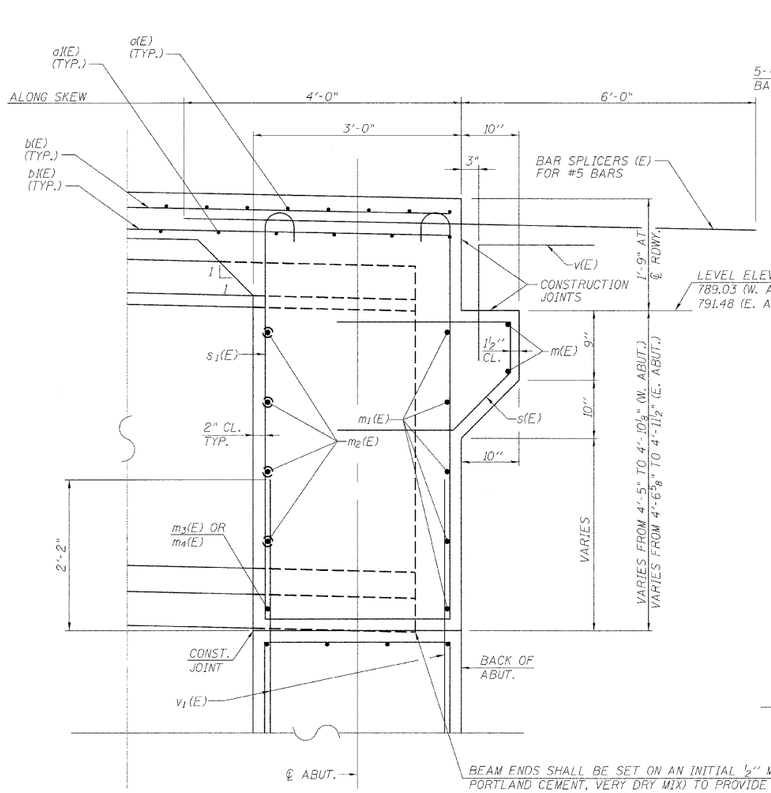
DLZ
DLZ Illinois, Inc.
85 W. Algonquin Rd. Ste. 220
Arlington Heights Il 60005

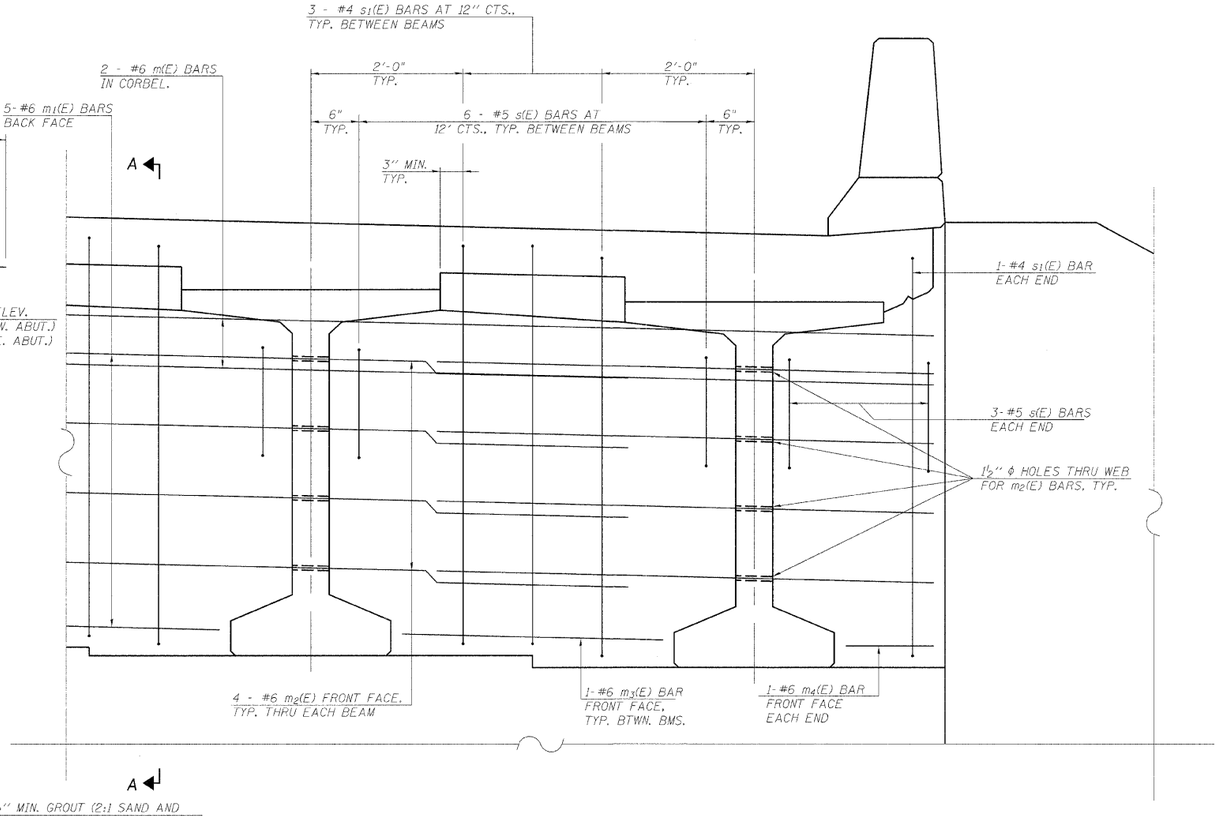
STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

ROUTE NO.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
F.A.P. 17	101BR-4	OGLE	60	25
FED. ROAD DIST. NO. 2	ILLINOIS	FED. AID PROJECT-		

SHEET NO. 8
SHEETS 19

Contract # 64D11





BEAM ENDS SHALL BE SET ON AN INITIAL ½" MIN. GROUT (2:1 SAND AND PORTLAND CEMENT, VERY DRY MIX) TO PROVIDE FULL BEARING. ANY EXCESS GROUT SQUEEZED OUT FROM UNDER THE BEAM SHALL BE REMOVED. COST INCLUDED WITH CONCRETE STRUCTURES.

SECTION A-A

DIMENSIONS AT RIGHT ANGLES TO ABUTMENT, EXCEPT AS SHOWN.

DIAPHRAGM ELEVATION AT ABUTMENT

MIN. BAR LAP

#6 BAR = 2'-9"

NOTES:
REINFORCEMENT BARS IN DIAPHRAGM ARE BILLED WITH SUPERSTRUCTURE ON SHEET 7 OF 19.

CONCRETE IN DIAPHRAGM IS INCLUDED WITH CONCRETE SUPERSTRUCTURE ON SHEET 7 OF 19.

FOR DETAILS OF BARS s(E) AND s1(E), SEE SHEET 7 OF 19.

THE s(E) AND s1(E) BARS SHALL BE PLACED PARALLEL TO THE BEAMS. SPACING FOR THESE BARS SHALL BE AT RIGHT ANGLES TO THE BEAMS.

DESIGNED	ASP
CHECKED	WSP
DRAWN	BGC
CHECKED	ASP

ABUTMENT DIAPHRAGM DETAILS
IL 64 OVER FIVE MILE CREEK
F.A.P. RT. 17 SECTION 101BR-4
OGLE COUNTY
STATION 124+91.00
STRUCTURE NO. 071-0095

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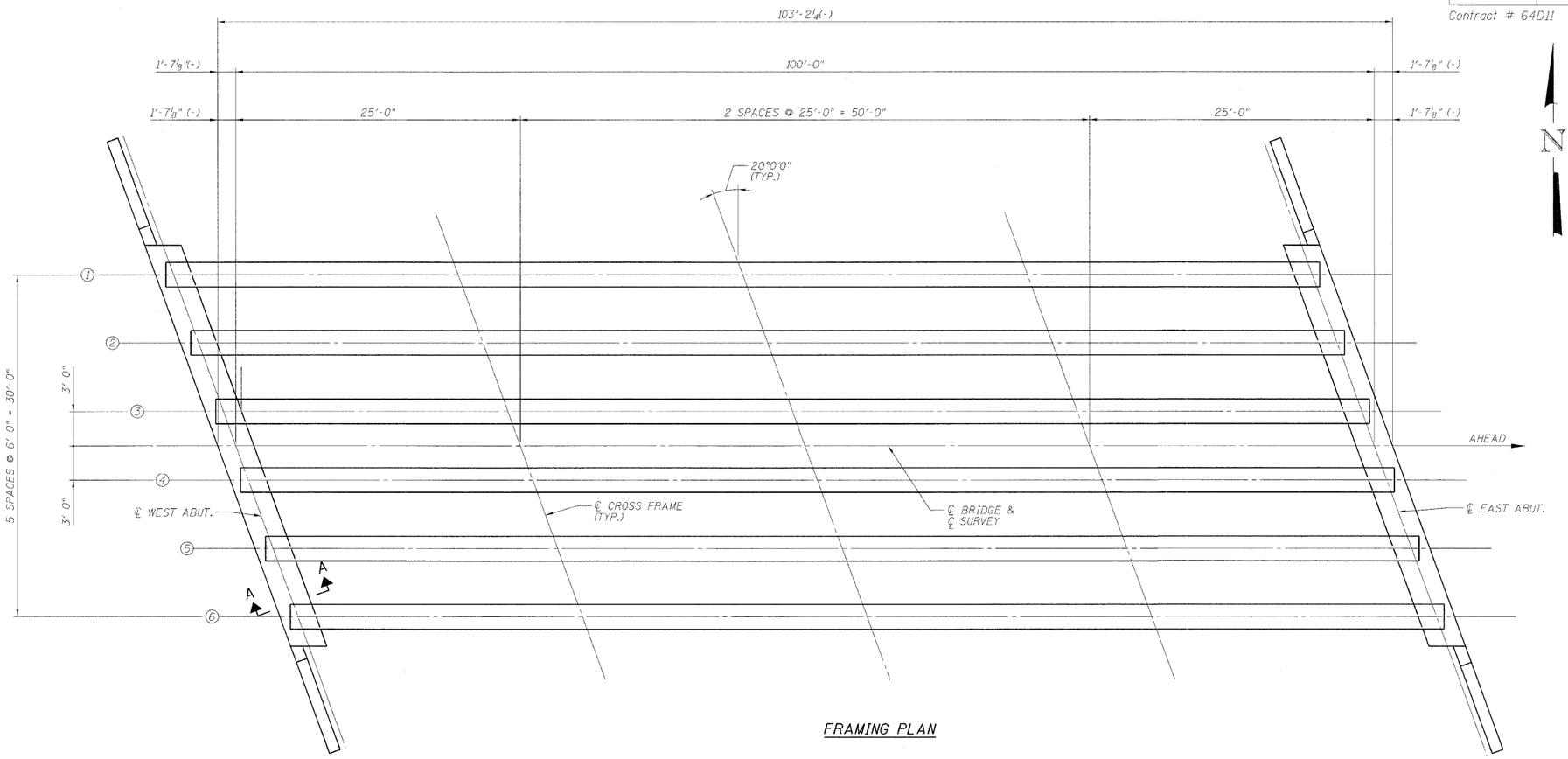
STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

ROUTE NO.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
F.A.P. 17	101BR-4	OGLE	60	26
FED. ROAD DIST. NO. 2	ILLINOIS	FED. AID PROJECT-		

SHEET NO. 9
SHEETS 19

Contract # 64D11

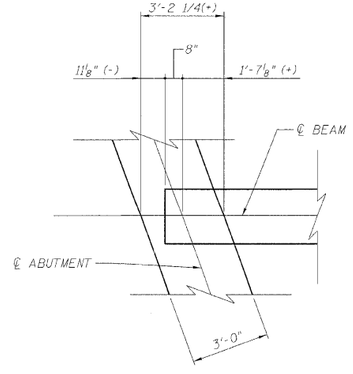


FRAMING PLAN

INTERIOR BEAM MOMENT TABLE		
I	(in^4)	392,638
I'	(in^4)	783,841
S_b	(in^3)	12,224
S_b'	(in^3)	16,806
S_t	(in^3)	12,715
S_t'	(in^3)	30,794
DC1	(k/')	1.45
M_{DC1}	('k)	1,766.0
DC2	(k/')	0.15
M_{DC2}	('k)	187.5
DW	(k/')	0.27
M_{DW}	('k)	333.3
$M_{4 \cdot IM}$	('k)	1,616.2

INTERIOR BEAM REACTION TABLE		
R_{DC1}	(k)	72.8
R_{DC2}	(k)	7.5
R_{DW}	(k)	13.3
$R_{4 \cdot IM}$	(k)	94.5
R_{Total}	(k)	188.1

I: NON-COMPOSITE MOMENT OF INERTIA OF BEAM SECTION (IN.4).
I': COMPOSITE MOMENT OF INERTIA OF BEAM SECTION (IN.4).
S_b: NON-COMPOSITE SECTION MODULUS FOR THE BOTTOM FIBER OF THE PRESTRESSED BEAM (IN.3).
S_b': COMPOSITE SECTION MODULUS FOR THE BOTTOM FIBER OF THE PRESTRESSED BEAM (IN.3).
S_t: NON-COMPOSITE SECTION MODULUS FOR THE TOP FIBER OF THE PRESTRESSED BEAM (IN.3).
S_t': COMPOSITE SECTION MODULUS FOR THE TOP FIBER OF THE PRESTRESSED BEAM (IN.3).
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).
$M_{4 \cdot IM}$: UN-FACTORED LIVE LOAD MOMENT PLUS DYNAMIC LOAD ALLOWANCE (IMPACT) (KIP-FT.).



PLAN AT ABUTMENT

NOTES:
SEE SHEET 12 OF 19 FOR CROSS FRAME DETAILS

FOR SECTION A-A, SEE SHEET 8 OF 19

DESIGNED	ASP
CHECKED	WSP
DRAWN	BGC
CHECKED	ASP

FRAMING PLAN
IL 64 OVER FIVE MILE CREEK
F.A.P. RT. 17 SECTION 101BR-4
OGLE COUNTY
STATION 124+91.00
STRUCTURE NO. 071-0095

DLZ
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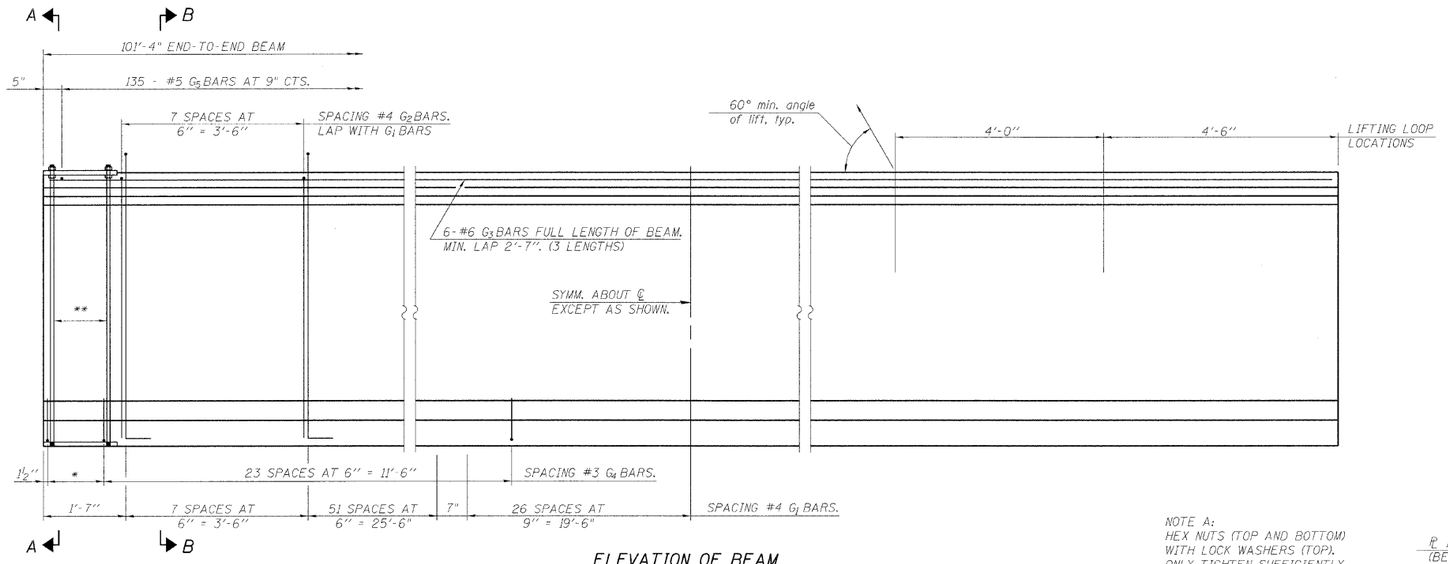
Arlington Heights Il 60005

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

ROUTE NO.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
F.A.P. 17	101BR-4	OGLE	60	27
FED. ROAD DIST. NO. 2	ILLINOIS	FED. AID PROJECT-		

SHEET NO. 10
SHEETS 19

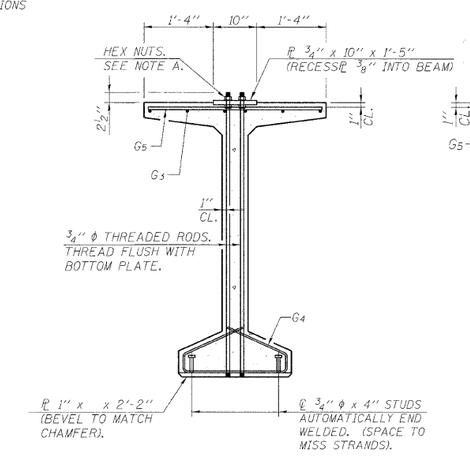
Contract # 64D11



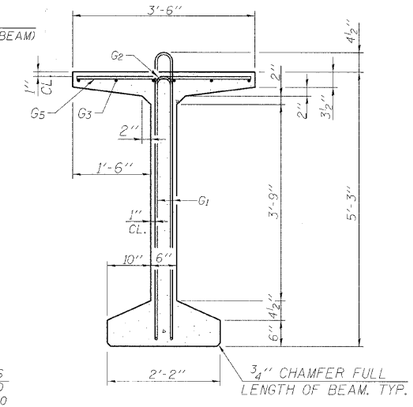
*4 SPACES AT 3¼" = 1.1".
**5-3/4" ϕ THREADED DOWEL RODS AT 3¼" CTS., EACH FACE

ELEVATION OF BEAM
(SHOWING REINFORCEMENT & DIMENSIONS)

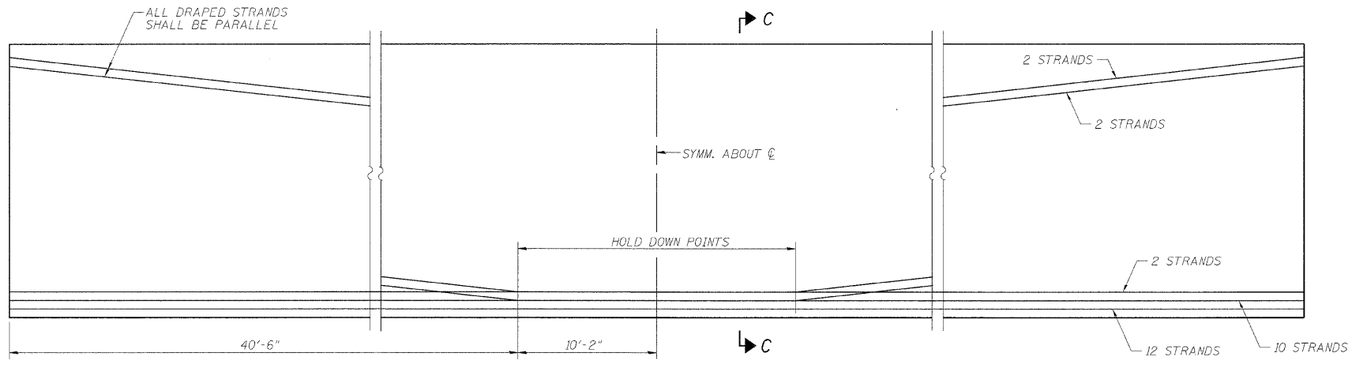
NOTE A:
HEX NUTS (TOP AND BOTTOM) WITH LOCK WASHERS (TOP). ONLY TIGHTEN SUFFICIENTLY TO COMPRESS LOCK WASHERS.



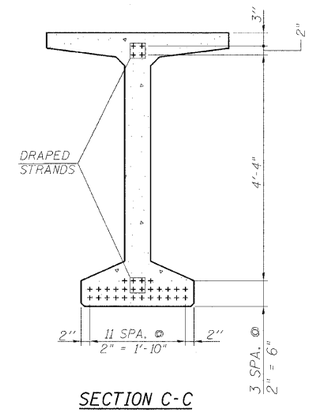
SECTION A-A



SECTION B-B



ELEVATION OF BEAM
(SHOWING PRESTRESSING STEEL)



SECTION C-C

***BAR LIST
ONE BEAM ONLY

Bar	No.	Size	Length	Shape
G_1	171	#4	11'-11"	
G_2	16	#4	10'-2"	
G_3	18	#6	35'-5"	
G_4	56	#3	1'-11"	
G_5	135	#5	3'-4"	

***FOR INFORMATION ONLY

NOTES:
SEE SHEET 11 OF 19 FOR ADDITIONAL DETAILS AND BILL OF MATERIAL.
REQUIRED RELEASE STRENGTH, f'ci, SHALL BE 5,000 psi..

DESIGNED	ASP
CHECKED	WSP
DRAWN	BCC
CHECKED	ASP

PBT-4-63 5-16-08

63" PPC BULB T-BEAM
IL 64 OVER FIVE MILE CREEK
F.A.P. RT. 17 SECTION 101BR-4
OGLE COUNTY
STATION 124+91.00
STRUCTURE NO. 071-0095

DLZ
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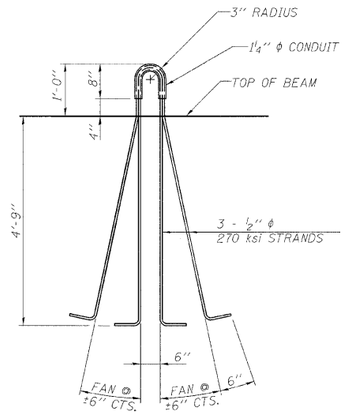
85 W. Algonquin Rd. Ste. 220
Arlington Heights Il 60005

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

ROUTE NO.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
F.A.P. 17	101BR-4	OGLE	60	28
FED. ROAD DIST. NO. 2	ILLINOIS	FED. AID PROJECT-		

SHEET NO. 11
SHEETS 19
Contract # 64D11



LIFTING LOOP DETAIL

NOTES

INSERTS FOR ¾" ϕ THREADED DOWEL RODS, WHEN SPECIFIED, ARE TO BE TWO STRUT, FERRULE TYPE FOR INTERIOR BEAMS AND SINGLE FERRULE, FLARED LOOP TYPE FOR EXTERIOR BEAMS.

PRESTRESSING STEEL SHALL BE UNCOATED HIGH STRENGTH, LOW RELAXATION 7-WIRE STRAND, GRADE 270.

THE NOMINAL DIAMETER SHALL BE ½" AND THE NOMINAL CROSS-SECTIONAL AREA SHALL BE 0.153 sq. in.

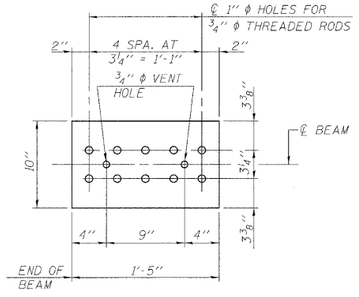
REINFORCEMENT BARS SHALL CONFORM TO ASTM A 706, GRADE 60. (SEE SPECIAL PROVISIONS).

A MINIMUM 2½" ϕ LIFTING PIN SHALL BE USED TO ENGAGE THE LIFTING LOOPS DURING HANDLING.

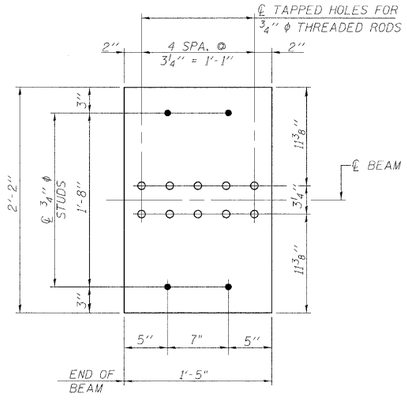
THE TOP AND BOTTOM PLATES SHALL BE AASHTO M270 GRADE 50.

THE BOTTOM PLATES AND STUDS SHALL BE GALVANIZED ACCORDING TO AASHTO M111.

THREADED RODS SHALL BE ASTM F 1554 GRADE 55.

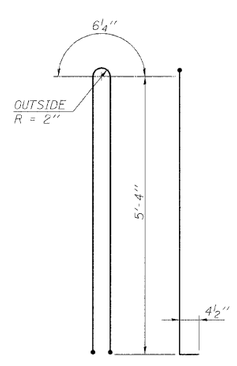


TOP PLATE

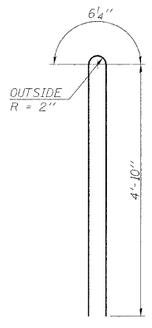


BOTTOM PLATE

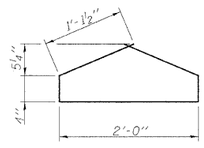
See bearing details for pintle hole locations when required.



BAR G1



BAR G2



BAR G4

BILL OF MATERIAL

Item	Unit	Total
Furnishing and Erecting Precast Prestressed Concrete Bulb T-Beams, 63"	Ft.	608.0

DESIGNED	ASP
CHECKED	WSP
DRAWN	BGC
CHECKED	ASP

PBT-4-63D 5-16-08

63" PPC BULB T-BEAM DETAILS
IL 64 OVER FIVE MILE CREEK
F.A.P. RT. 17 SECTION 101BR-4
OGLE COUNTY
STATION 124+91.00
STRUCTURE NO. 071-0095

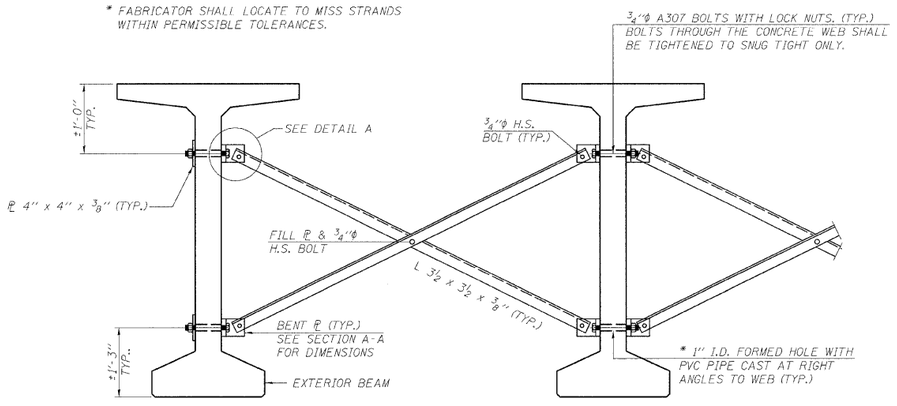
DLZ
DLZ Illinois, Inc.
85 W. Algonquin Rd. Ste. 220
Arlington Heights Il 60005

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

ROUTE NO.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
F.A.P. 17	101BR-4	OGLE	50	29
FED. ROAD DIST. NO. 2		ILLINOIS	FED. AID PROJECT-	

SHEET NO. 12
SHEETS 19

Contract # 64D11



NOTES:
ALL MATERIAL FOR BRACING SHALL BE HOT DIP GALVANIZED ACCORDING TO AASHTO M111 UNLESS OTHERWISE NOTED.

TWO HARDENED WASHERS ARE REQUIRED FOR EACH SET OF OVERSIZED HOLES.

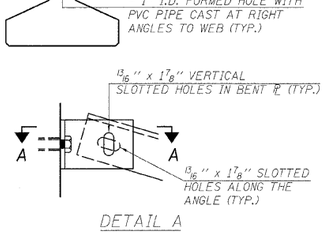
ALL HOLES SHALL BE 15/16" ϕ UNLESS OTHERWISE NOTED.

5/16" x 3" x 3" PLATE WASHERS ARE REQUIRED OVER ALL SLOTTED HOLES.

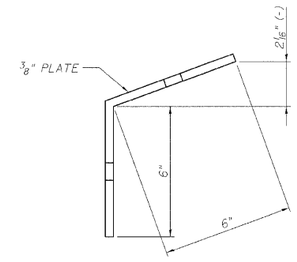
ALL BOLTS SHALL BE GALVANIZED ACCORDING TO AASHTO M232.

BRACING SHALL BE INSTALLED AS BEAMS ARE ERECTED AND TIGHTENED AS SOON AS POSSIBLE DURING ERECTION.

ALL MATERIAL FOR BRACING SHALL BE AASHTO M270 GRADE 36



DETAIL A



SECTION A-A

PERMANENT BRACING DETAILS FOR BULB-T BEAMS

DESIGNED	ASP
CHECKED	WSP
DRAWN	BGC
CHECKED	ASP

BULB T-BEAM BRACING DETAILS
IL 64 OVER FIVE MILE CREEK
F.A.P. RT. 17 SECTION 101BR-4
OGLE COUNTY
STATION 124+91.00
STRUCTURE NO. 071-0095

DLZ
DLZ Illinois, Inc.
85 W. Algonquin Rd. Ste. 220
Arlington Heights Il 60005

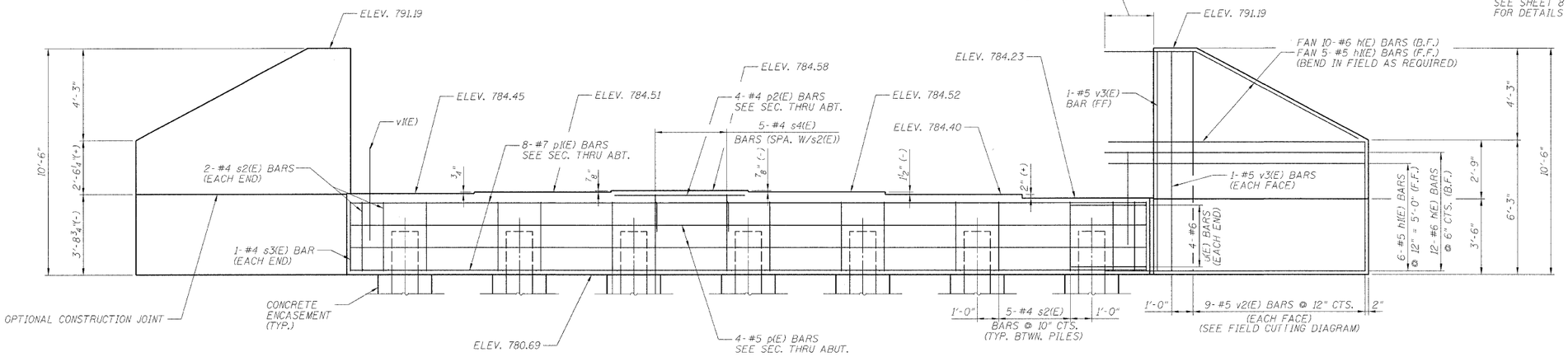
NOTES:
POUR STEPS MONOLITHICALLY WITH CAP.

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

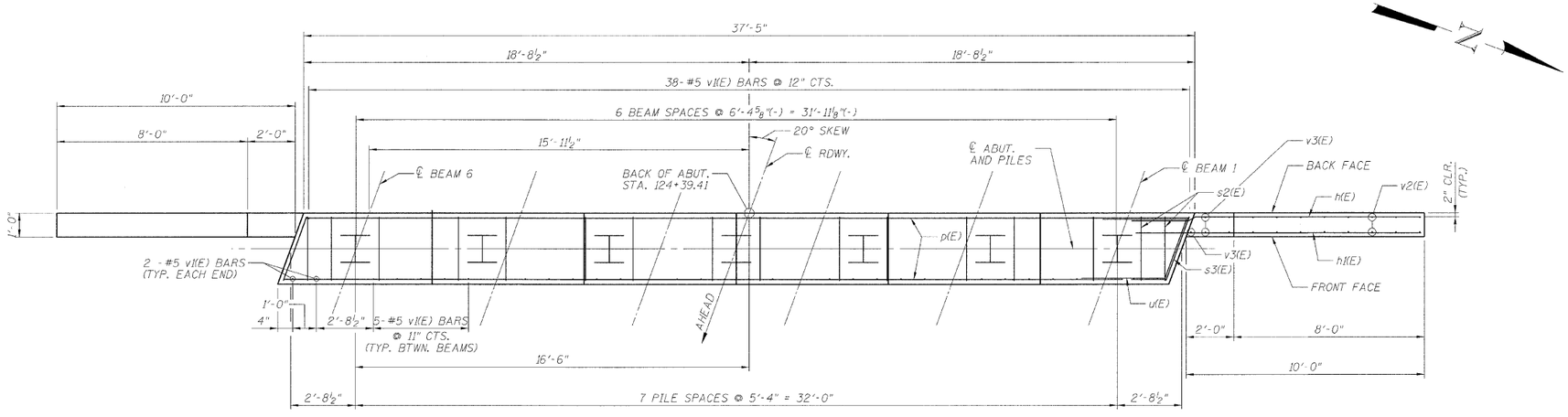
ROUTE NO.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
F.A.P. 17	101BR-4	OGLE	60	30
FED. ROAD DIST. NO. 2	ILLINOIS	FED. AID PROJECT-		

SHEET NO. 13
SHEETS 19

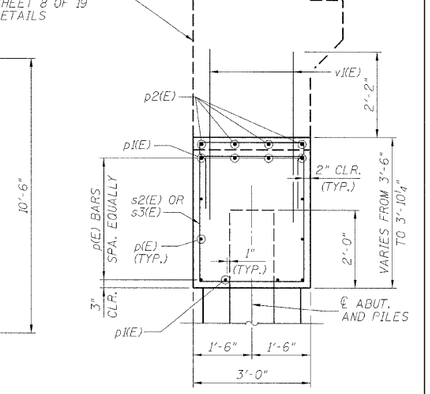
Contract # 64D11



ELEVATION
(LOOKING BACK)



PLAN
(LOOKING BACK)



SEC. THRU ABUT.

BILL OF MATERIAL

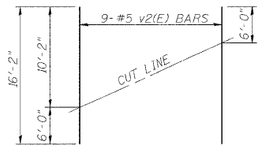
Bar	No.	Size	Length	Shape
h(E)	44	6	12'-5"	
h1(E)	22	5	12'-0"	
p(E)	4	5	37'-1"	
p1(E)	8	7	37'-1"	
p2(E)	4	4	6'-0"	
s2(E)	34	4	12'-8"	
s3(E)	2	4	13'-0"	
s4(E)	5	4	6'-2"	
u(E)	8	6	9'-10"	
v1(E)	67	5	4'-4"	
v2(E)	18	5	16'-2"	
v3(E)	6	5	10'-2"	
STRUCTURE EXCAVATION		CU.YD.	0	
CONCRETE STRUCTURES		CU.YD.	22.0	
REINFORCEMENT BARS, EPOXY COATED		POUND	2,987	
FURNISHING STEEL PILES HP 14 x 73		FOOT	147	
CONCRETE ENCASEMENT		CU.YD.	3.3	
SETTING PILES IN ROCK		EACH	7	

NOTES:
FOR DETAILS OF PILES AND CONCRETE ENCASEMENT, SEE SHEET 15 OF 19.

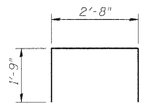
DESIGNED	WSP
CHECKED	ASP
DRAWN	BEM
CHECKED	WSP

PILE DATA

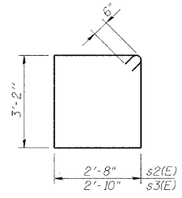
TYPE: HP14X73
NOMINAL REQUIRED BEARING: 883.7 KIPS
FACTORED RESISTANCE AVAILABLE: 441.9 KIPS
EST. LENGTH: 21.0'
NO. PRODUCTION PILES: 7
NO TEST PILES: 0
ESTIMATED TOP OF ROCK ELEVATION: 767.00
ROCK SOCKET DEPTH: 5 FEET
ROCK SOCKET DIAMETER: 2.50 FEET



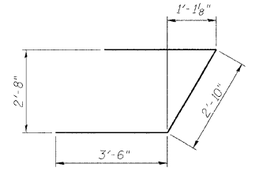
FIELD CUTTING DIAGRAM
(2 SETS)
ORDER v2(E) BARS FULL LENGTH. CUT AS SHOWN AND USE REMAINDER OF BARS IN OPPOSITE FACE.



BARS s4(E)



BARS s2(E) & s3(E)



BAR u(E)

WEST ABUTMENT
IL 64 OVER FIVE MILE CREEK
F.A.P. RT. 17 SECTION 101BR-4
OGLE COUNTY
STATION 124+91.00
STRUCTURE NO. 071-0095

DLZ
DLZ Illinois, Inc.
85 W. Algonquin Rd. Ste. 220
Arlington Heights Il 60005

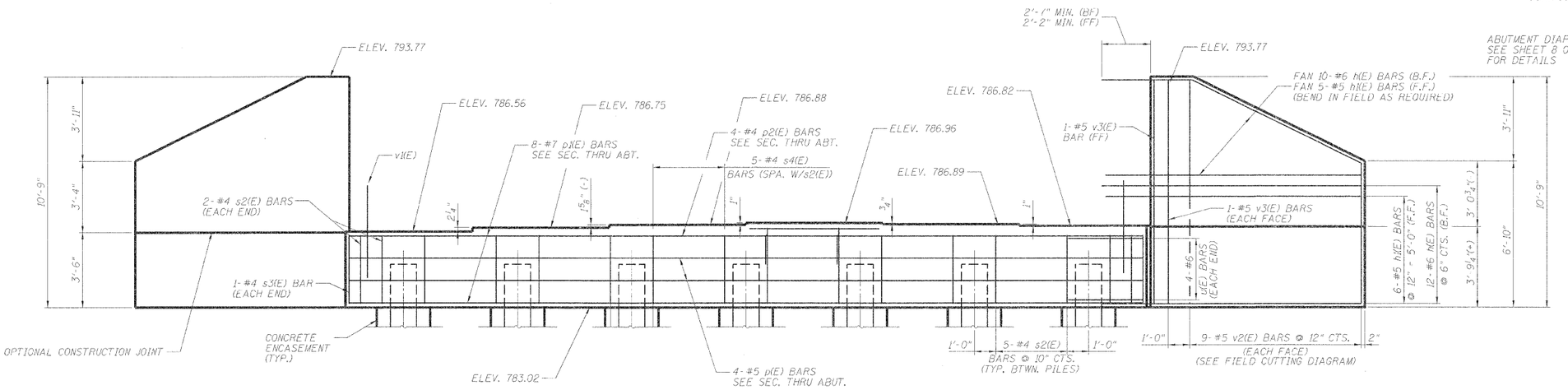
NOTES:
POUR STEPS MONOLITHICALLY WITH CAP.

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

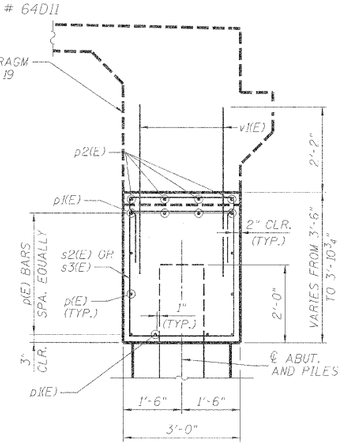
ROUTE NO.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
F.A.P. 17	101BR-4	OGLE	60	31
FED. ROAD DIST. NO. 2	ILLINOIS	FED. AID PROJECT=		

SHEET NO. 14
SHEETS 19

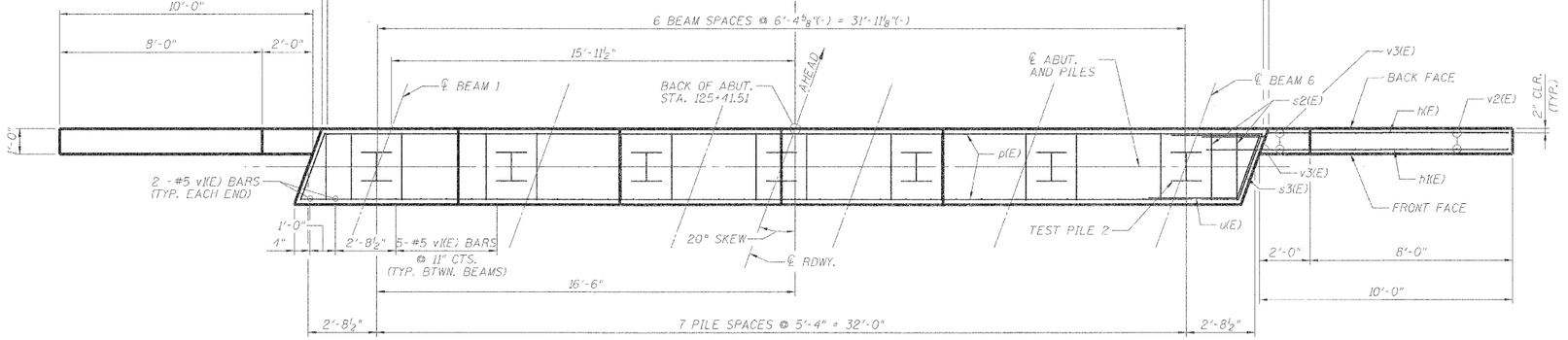
Contract # 64D11



ELEVATION
(LOOKING AHEAD)



SEC. THRU ABT.



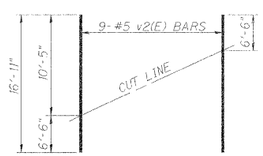
PLAN
(LOOKING AHEAD)

BILL OF MATERIAL

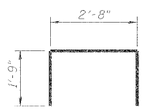
Bar	No.	Size	Length	Shape
h(E)	44	6	12'-5"	
h1(E)	22	5	12'-0"	
p(E)	4	5	37'-1"	
p1(E)	8	7	37'-1"	
p2(E)	4	4	6'-0"	
s2(E)	34	4	12'-8"	
s3(E)	2	4	13'-0"	
s4(E)	5	4	6'-2"	
u(E)	8	6	9'-10"	
v1(E)	57	5	4'-4"	
v2(E)	18	5	16'-11"	
v3(E)	6	5	10'-5"	
STRUCTURE EXCAVATION		CU.YD.	260	
CONCRETE STRUCTURES		CU.YD.	22.2	
REINFORCEMENT BARS, EPOXY COATED		POUND	3,002	
FURNISHING STEEL PILES HP 14 x 73		FOOT	112	
CONCRETE ENCASEMENT		CU.YD.	3.3	
SETTING PILES IN ROCK		EACH	7	

PILE DATA

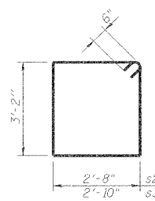
TYPE: HP14X73
NOMINAL REQUIRED BEARING: 883.7 KIPS
FACTORED RESISTANCE AVAILABLE: 441.9 KIPS
EST. LENGTH: 21.0'
NO. PRODUCTION PILES: 7
NO TEST PILES: 0
ESTIMATED TOP OF ROCK ELEVATION: 775.00
ROCK SOCKET DEPTH: 5 FEET
ROCK SOCKET DIAMETER: 2.50 FEET



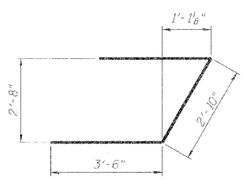
FIELD CUTTING DIAGRAM
(2 SETS)
ORDER v2(E) BARS FULL LENGTH. CUT AS SHOWN AND USE REMAINDER OF BARS IN OPPOSITE FACE.



BARS s4(E)



BARS s2(E) & s3(E)



BAR u(E)

NOTES:
FOR DETAILS OF PILES AND CONCRETE ENCASEMENT, SEE SHEET 15 OF 19.

EAST ABUTMENT
IL 64 OVER FIVE MILE CREEK
F.A.P. RT. 17 SECTION 101BR-4
OGLE COUNTY
STATION 124+91.00
STRUCTURE NO. 071-0095

DESIGNED	WSP
CHECKED	ASP
DRAWN	BEM
CHECKED	WSP

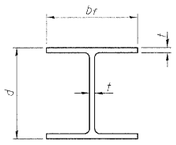
DLZ
DLZ Illinois, Inc.
85 W. Algonquin Rd. Ste. 220
Arlington Heights Il 60005

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

ROUTE NO.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
F.A.P. 17	101BR-4	OGLE	60	32
FED. ROAD DIST. NO. 2	ILLINOIS	FED. AID PROJECT-		

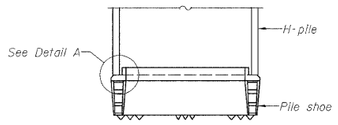
SHEET NO. 15
SHEETS 19

Contract # 64D11

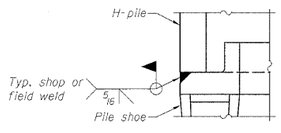


STEEL PILE TABLE

Designation	Depth d	Flange width br	Web and Flange thickness t	Encasement diameter A
HP 14x117	14 1/4"	14 7/8"	13/16"	30"
x102	14"	14 3/4"	11/16"	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"	11/16"	24"
x74	12 1/2"	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"

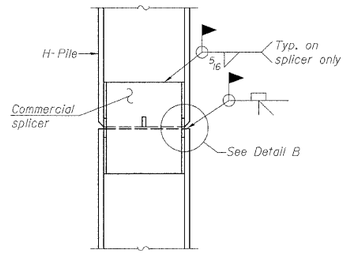


ELEVATION

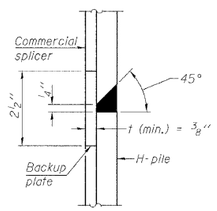


DETAIL A

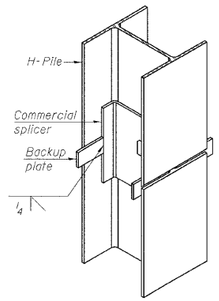
H-PILE SHOE ATTACHMENT



ELEVATION

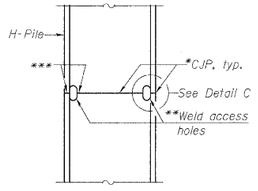


DETAIL "B"

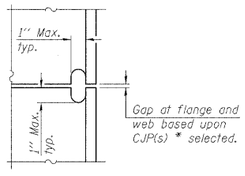


ISOMETRIC VIEW

WELDED COMMERCIAL SPLICE



ELEVATION



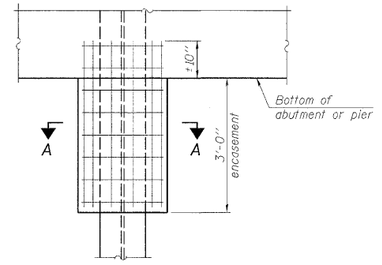
DETAIL C

COMPLETE PENETRATION WELD SPLICE

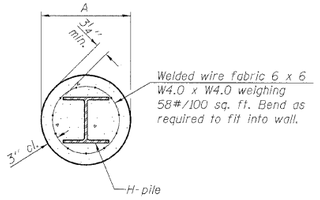
*Use joint conforming to Figure 3.4 in AWS D1.1, Structure Welding Code-Steel.

**Preparation per Fig. 5.2 in AWS D1.1, Structure Welding Code-Steel.

***Interrupt welds 1/4" from end of each pile.



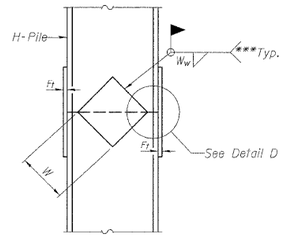
ELEVATION



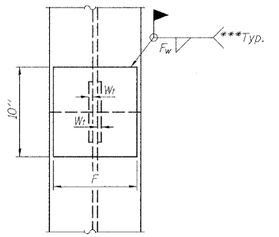
SECTION A-A

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

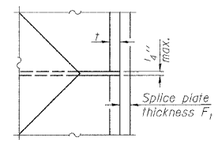
PILE ENCASEMENT



ELEVATION



END VIEW



DETAIL D

Designation	F	Ft	Fw	W	W1	Ww
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"	11/16"	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"	11/16"	6 1/2"	5/8"	1/2"
x74	10"	7/8"	11/16"	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"

WELDED PLATE FIELD SPLICE

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

DESIGNED	WSP
CHECKED	ASP
DRAWN	BEM
CHECKED	WSP

F-HP 5-16-08

HP PILE DETAILS
IL 64 OVER FIVE MILE CREEK
F.A.P. RT. 17 SECTION 101BR-4
OGLE COUNTY
STATION 124+91.00
STRUCTURE NO. 071-0095

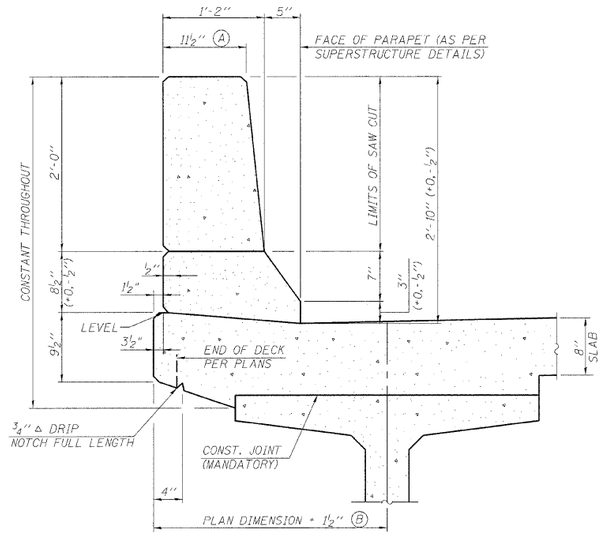
DLZ
DLZ Illinois, Inc.
85 W. Algonquin Rd. Ste. 220
Arlington Heights Il 60005

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

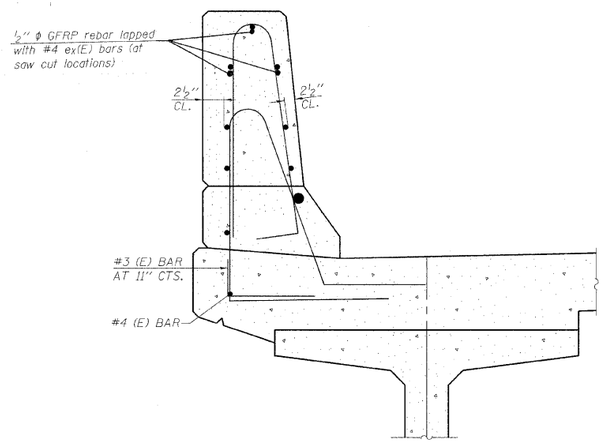
ROUTE NO.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
F.A.P. 17	101BR-4	OGLE	60	33
FED. ROAD DIST. NO. 2	ILLINOIS	FED. AID PROJECT-		

SHEET NO. 16
SHEETS 19

Contract # 64D11



SECTION
(Showing dimensions)

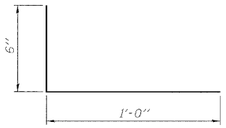


SECTION
(SHOWING REINFORCEMENT CLEARANCES FOR SLIP FORMING AND ADDITIONAL REINFORCEMENT BARS)

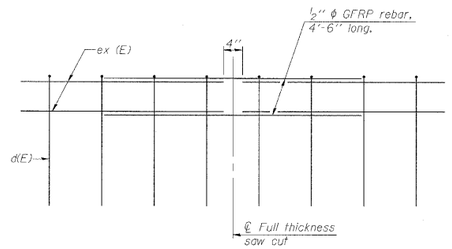
GENERAL NOTES

ALL DIMENSIONS SHALL REMAIN THE SAME AS SHOWN ON CONTRACT PLANS, 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.

FULL THICKNESS SAW CUT AT ALL JOINT LOCATIONS IN LIEU OF CORK JOINT FILLER.



#3 (E) BAR



GFRP REBAR STIFFENING DETAIL
(Place as shown in parapet section at each parapet joint location.)

DESIGNED	ASP
CHECKED	WSP
DRAWN	BEM
CHECKED	ASP

SFP-34 5-16-08

CONCRETE PARAPET SLIPFORMING OPTION
IL 64 OVER FIVE MILE CREEK
F.A.P. RT. 17 SECTION 101BR-4
OGLE COUNTY
STATION 124+91.00
STRUCTURE NO. 071-0095

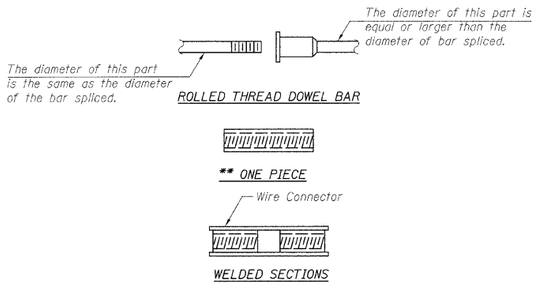
DLZ
DLZ Illinois, Inc.
85 W. Algonquin Rd. Ste. 220
Arlington Heights Il 60005

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

ROUTE NO.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
F.A.P. 17	101BR-4	OGLE	60	34
FED. ROAD DIST. NO. 2	ILLINOIS	FED. AID PROJECT-		

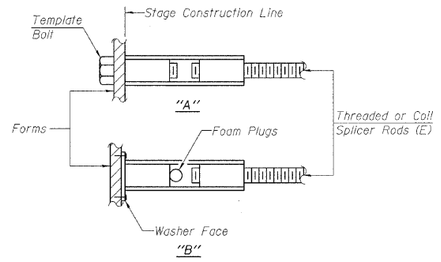
SHEET NO. 17
SHEETS 19

Contract # 64D11



BAR SPLICER ASSEMBLY ALTERNATIVES

**Heavy Hex Nuts conforming to ASTM A 563, Grade C, D or DH may be used.



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.

NOTES

Bar splicer assemblies shall be of an approved type and shall develop in tension at least 125 percent of the yield strength of the lapped reinforcement bars.

Splicer rods shall be of minimum 60 ksi yield strength, threaded or coiled full length.

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

Bar splicer assemblies shall be epoxy coated according to the requirements for reinforcement bars.

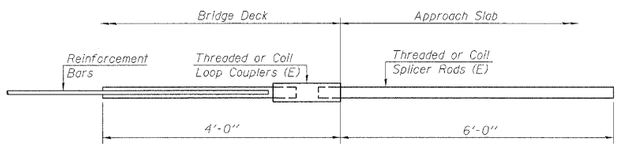
Other systems of similar design may be submitted to the Engineer for approval. Approval shall be based on certified test results from an approved testing laboratory that the proposed bar splicer assembly satisfies the following requirements:

(1) Minimum Capacity (Tension in kips) = $1.25 \times f_y \times A_t$

(2) Minimum *Pull-out Strength (Tension in kips) = $0.66 \times f_y \times A_t$

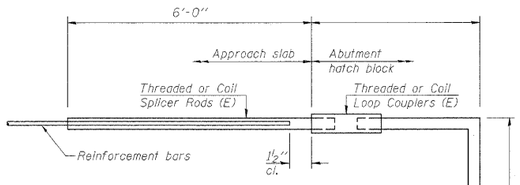
Where f_y = Yield strength of lapped reinforcement bars in ksi.
A_t = Tensile stress area of lapped reinforcement bars.
* = 28 day concrete

BAR SPLICER ASSEMBLIES			
		Strength Requirements	
Bar Size to be Spliced	Splicer Rod or Dowel Bar Length	Min. Capacity kips - tension	Min. Pull-Out Strength kips - tension
#4	1'-8"	14.7	7.9
#5	2'-2"	23.0	12.3
#6	2'-7"	33.1	17.4
#7	3'-5"	45.1	23.8
#8	4'-6"	58.9	31.3
#9	5'-9"	75.0	39.6
#10	7'-3"	95.0	50.3
#11	9'-0"	117.4	61.8



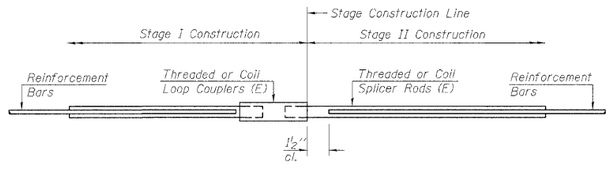
FOR INTEGRAL OR SEMI-INTEGRAL ABUTMENTS

Bar Splicer for #5 bar
Min. Capacity = 23.0 kips - tension
Min. Pull-out Strength = 12.3 kips - tension
No. Required = 62



FOR STUB ABUTMENTS

Bar Splicer for #5 bar
Min. Capacity = 23.0 kips - tension
Min. Pull-out Strength = 12.3 kips - tension
No. Required =



STANDARD

Bar Size	No. Assemblies Required	Location

DESIGNED	ASP
CHECKED	WSP
DRAWN	BEM
CHECKED	ASP

BSD-1 5-16-08

BAR SPLICER ASSEMBLY DETAILS
IL 64 OVER FIVE MILE CREEK
F.A.P. RT. 17 SECTION 101BR-4
OGLE COUNTY
STATION 124+91.00
STRUCTURE NO. 071-0095

DLZ DLZ Illinois, Inc. 85 W. Algonquin Rd. Ste. 220 Arlington Heights Il 60005

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

ROUTE NO.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
F.A.P. 17	101BR-4	OGLE	60	35
FED. ROAD DIST. NO. 2	ILLINOIS	FED. AID PROJECT:		

SHEET NO. 18
SHEETS 19
Contract # 64D11

Illinois Department of Transportation
Division of Highways
Illinois Department of Transportation/D-2

SOIL BORING LOG

Page 1 of 1

Date 2/27/07

ROUTE FAP 17 DESCRIPTION P92-051-07 IL 64 Bridge over Elkhorn Creek, 2.7 m. W. of IL 26 LOGGED BY J. Strating

SECTION 101 BR-4 LOCATION Brookville Twp. - 24 SW, SEC. , TWP. 24N, RNG. 7E

COUNTY Ogle DRILLING METHOD Hollow Stem Auger HAMMER TYPE B-53 Diedrich Automatic

STRUCT. NO. 071-0013
Station 131+39 = 124+60

BORING NO. B-1
Station 130+71 = 123+92
Offset 11.00ft Lt CL
Ground Surface Elev. 97.50 ft

Surface Water Elev. 84.00 ft
Stream Bed Elev. 83.00 ft

Groundwater Elev.:
First Encounter 77.5 ft ▽
Upon Completion ft
After Hrs. ft

DEPTH (ft)	BLOWS (/6")	UCS Qu (tsf)	MOIST (%)	
				12" Asphalt
		0.5	25.0	MEDIUM black SILTY LOAM
	1			
	7			
75.50				
	31			LOOSE gray dirty SAND with GRAVEL
95.00	4			STIFF dark gray SILTY LOAM
	3	1.8	25.0	
93.50	5	P		
-5				MEDIUM tan/gray weathered LIMESTONE
	21			
	9			
72.50	-25			Auger Refusal VERY DENSE tan/gray weathered LIMESTONE
				Borehole continued with rock coring.
	3			VERY STIFF dark gray SILTY LOAM
	4	2.5	24.0	
91.00	5	P		
	1			Very sTIFF dark gray SILTY LOAM
	2	2.3	24.0	
88.50	5	P		
-10				VERY STIFF dark gray SILTY LOAM
	8			
	9	2.3	19.0	
86.00	8	P		
	2			SOFT dark gray SILTY LOAM
	3	0.4	35.0	
83.50	3	B		
-15				MEDIUM dark gray SILTY LOAM with 11% ORGANICS
	1			
	1	0.5	51.0	
81.00	2	B		
	2			MEDIUM gray LOAM with ORGANICS and SAND lens
	2	0.5	32.0	
	2	P		
78.00				
-20				
-30				
-35				
-40				

The Unconfined Compressive Strength (UCS) Failure Mode is indicated by (B-Bulge, S-Shear, P-Penetrometer)
The SPT (N value) is the sum of the last two blow values in each sampling zone (AASHTO T206)

BBS, from 137 (Rev. 8-99)

Illinois Department of Transportation
Division of Highways
Illinois Department of Transportation/D-2

ROCK CORE LOG

Page 1 of 1

Date 2/27/07

ROUTE FAP 17 DESCRIPTION P92-051-07 IL 64 Bridge over Elkhorn Creek, 2.7 m. W. of IL 26 LOGGED BY J. Strating

SECTION 101 BR-4 LOCATION Brookville Twp. - 24 SW, SEC. , TWP. 24N, RNG. 7E

COUNTY Ogle CORING METHOD

STRUCT. NO. 071-0013
Station 131+39 = 124+60

CORING BARREL TYPE & SIZE

BORING NO. B-1
Station 130+71 = 123+92
Offset 11.00ft Lt CL
Ground Surface Elev. 97.50 ft

Core Diameter 1.5 in
Top of Rock Elev. 75.50 ft
Begin Core Elev. 72.50 ft

DEPTH (ft)	CORE (#)	RECOVERY (%)	R.Q.D. (%)	CORE TIME (min/ft)	STRENGTH (tsf)	
72.50	1	100	0	4		Dolomite: light and dark gray marbling, dense but severely fractured throughout in 1" to 3" segments.
67.50	-30					
	2	100	22	2.4	989.0	Dolomite: as above, not as fractured. T.S.F. from 60.9 to 60.5
62.50	-35					
	3	100	13	2.2	654.0	Dolomite: as above T.S.F. from 58.1 to 57.8
57.50	-40					
						End of Boring
	-45					

Color pictures of the cores _____
Cores will be stored for examination until _____
The "Strength" column represents the uniaxial compressive strength of the core sample (ASTM D-2938)

BBS, form 138 (Rev. 8-99)

DESIGNED	ASP
CHECKED	WSP
DRAWN	BEM
CHECKED	ASP

BORING LOG
IL 64 OVER FIVE MILE CREEK
F.A.P. RT. 17 SECTION 101BR-4
OGLE COUNTY
STATION 124+91.00
STRUCTURE NO. 071-0095

DLZ DLZ Illinois, Inc.
85 W. Algonquin Rd. Ste. 220
Arlington Heights Il 60005

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

ROUTE NO.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
F.A.P. 17	101BR-4	OGLE	60	36
FED. ROAD DIST. NO. 2	ILLINOIS	FED. AID PROJECT-		

SHEET NO. 19
SHEETS 19

Contract # 64D11

Illinois Department of Transportation
Division of Highways
Illinois Department of Transportation/D-2

SOIL BORING LOG

Page 1 of 1

Date 2/28/07

ROUTE FAP 17 DESCRIPTION P92-051-07 IL 64 Bridge over Elkhorn Creek, 2.7 m. W. of IL 26 LOGGED BY W. Garza

SECTION 101 BR-4 LOCATION Brookville Twp. - 24 SW, SEC. , TWP. 24N, RNG. 7E

COUNTY Ogle DRILLING METHOD Hollow Stem Auger HAMMER TYPE B-53 Diedrich Automatic

STRUCT. NO. 071-0013
Station 131+39 = 124+60

BORING NO. B-2
Station 132+03 = 125+24
Offset 10.00ft Rt CL
Ground Surface Elev. 101.00 ft

Surface Water Elev. 84.00 ft
Stream Bed Elev. 83.00 ft

Groundwater Elev.:
First Encounter ____ ft
Upon Completion ____ ft
After ____ Hrs. ____ ft

	DEPTH (ft)	BLOWS (/6")	UCS Qu (tsf)	MOIST (%)
12" Asphalt			0.5 P	20.0
MEDIUM brown SILTY CLAY LOAM				
	98.50	7		
STIFF brown SANDY LOAM		3	1.1 P	21.0
	97.00	3		
	-5			
MEDIUM/STIFF brown SANDY LOAM		2		
		3	1.0 P	19.0
	94.50	5		
SOFT tan/brown SILTY LOAM		0		
		1	0.3 P	24.0
	92.00	1		
	-10			
SOFT tan SILT		2		
		3	1.2 S	25.0
	89.50	4		
STIFF tan SILTY LOAM		2		
		4	1.0 S	26.0
	87.00	5		
	-15			
STIFF dark gray SILTY LOAM with fine SAND lens		1		
		2	1.0 B	26.0
	84.00	4		
		100/2"		
Borehole continued with rock coring.				
	-20			

The Unconfined Compressive Strength (UCS) Failure Mode is Indicated by (B-Bulge, S-Shear, P-Penetrometer)
The SPT (N value) is the sum of the last two blow values in each sampling zone (AASHTO T206)

BBS, from 137 (Rev. 8-99)

Illinois Department of Transportation
Division of Highways
Illinois Department of Transportation/D-2

ROCK CORE LOG

Page 1 of 1

Date 2/28/07

ROUTE FAP 17 DESCRIPTION P92-051-07 IL 64 Bridge over Elkhorn Creek, 2.7 m. W. of IL 26 LOGGED BY W. Garza

SECTION 101 BR-4 LOCATION Brookville Twp. - 24 SW, SEC. , TWP. 24N, RNG. 7E

COUNTY Ogle CORING METHOD ____

STRUCT. NO. 071-0013
Station 131+39 = 124+60

CORING BARREL TYPE & SIZE ____
Core Diameter 1.5 in

BORING NO. B-2
Station 132+03 = 125+24
Offset 10.00ft Rt CL
Ground Surface Elev. 101.00 ft

Top of Rock Elev. 84.00 ft
Begin Core Elev. 83.00 ft

	DEPTH (ft)	CORE (#)	RECOVERY (%)	R.Q.D. (%)	CORE TIME (min/ft)	STRENGTH (tsf)
Dolomite: yellow-tan, top one foot fractured, with some oxidation visible; fractured in 1" to 5" segments with pitting visible. T.S.F. from 80.0 to 79.6.		1	100	28	1.6	948.0
	-20					
	78.00					
Dolomite: as above, with some crystalline faces visible. T.S.F. from 74.2 to 73.0.		2	100	40	2.4	905.0
	-25					
	73.00					
Dolomite: as above though dense; at 70.6, changes to light and dark gray marbling, dense and massively bedded - apparent inclusions are well cemented. T.S.F. from 70.0 to 69.5		3	95	52	2.4	903.0
	-30					
	68.00					
End of Boring						
	-35					

Color pictures of the cores ____
Cores will be stored for examination until ____
The "Strength" column represents the unfaxial compressive strength of the core sample (ASTM D-2938)

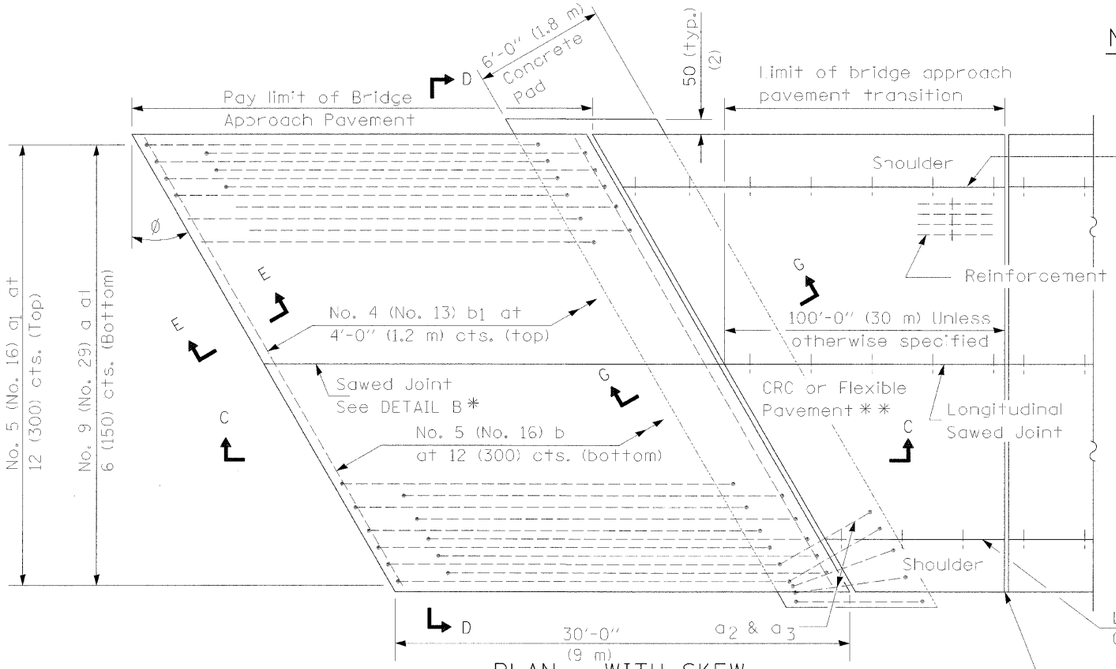
BBS, form 138 (Rev. 8-99)

DESIGNED	ASP
CHECKED	WSP
DRAWN	BEM
CHECKED	ASP

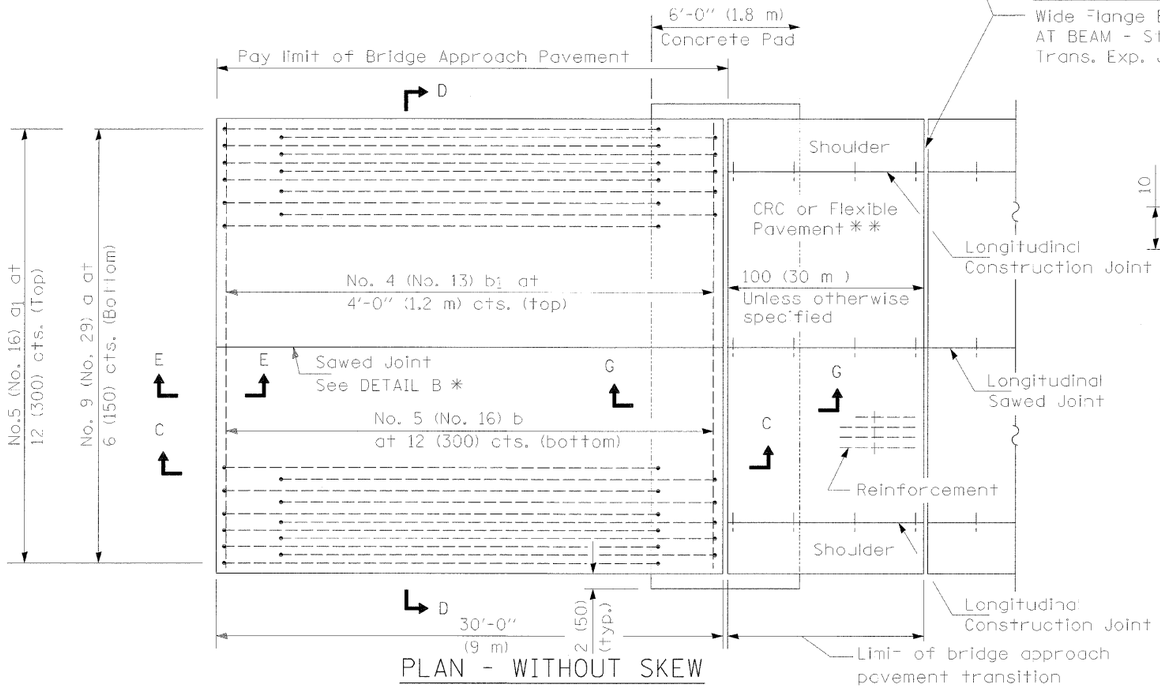
BORING LOG
IL 64 OVER FIVE MILE CREEK
F.A.P. RT. 17 SECTION 101BR-4
OGLE COUNTY
STATION 124+91.00
STRUCTURE NO. 071-0095

DLZ Illinois, Inc.
85 W. Algonquin Rd. Ste. 220
Arlington Heights Il 60005

NEW CONSTRUCTION



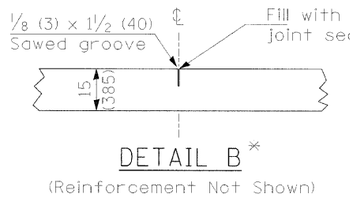
PLAN - WITH SKEW



PLAN - WITHOUT SKEW

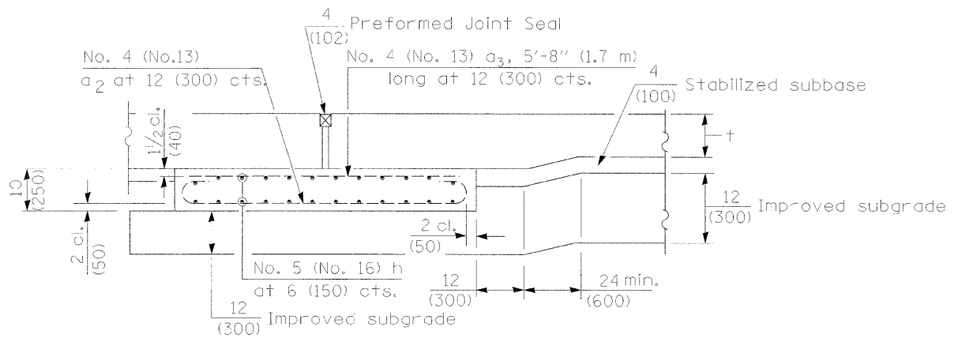
* Saw ℄ or lane edge if poured two or more lane widths at a time.

** Omit Reinforcement, tie bars and Long. sawed Jt. for Flexible Pavement.



DETAIL B *

(Reinforcement Not Shown)

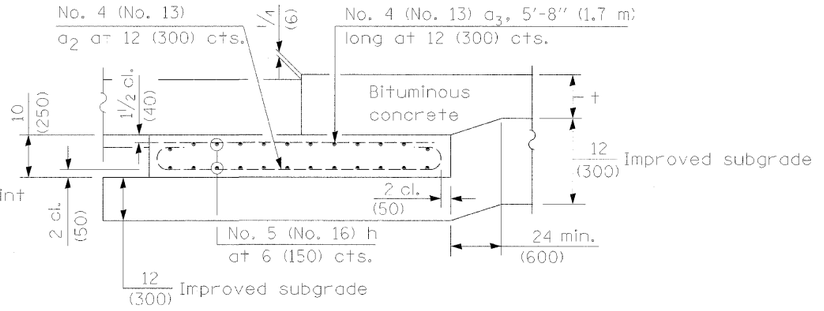


SECTION G-G - RIGID PAVEMENT

(Showing reinforcement)

Rigid Pavement only:

Wide Flange Beam Terminal Joint (See DETAIL AT BEAM - Standard 421101 or 421106) or 2 (50) Trans. Exp. Joint as detailed on Standard 420001.



SECTION G-G - FLEXIBLE PAVEMENT

(Showing reinforcement)

GENERAL NOTES

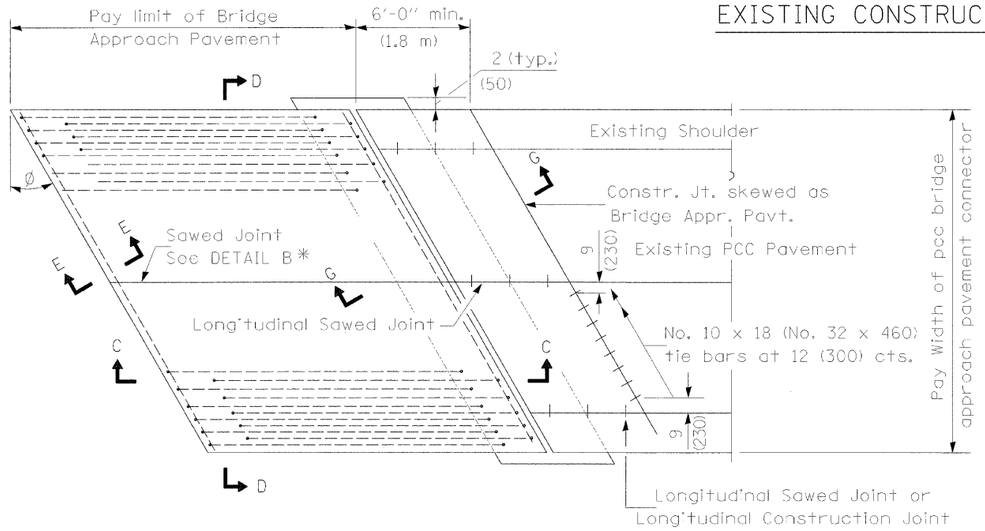
THICKNESS-"t"=Thickness of Pavement.

See Standard 421001 for reinforcement details not shown.

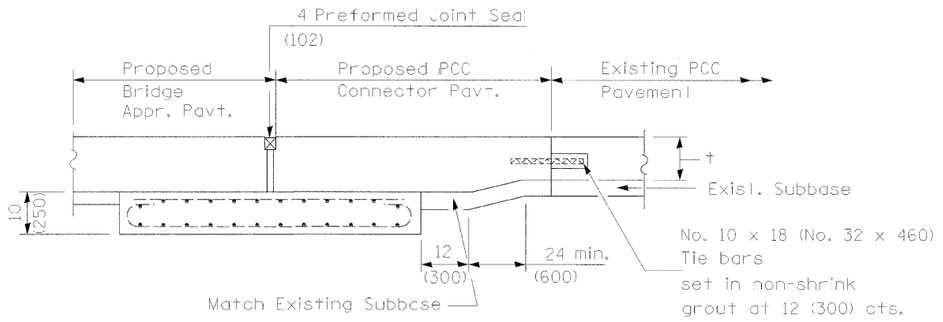
See Standard 420001 for joint details not shown.

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

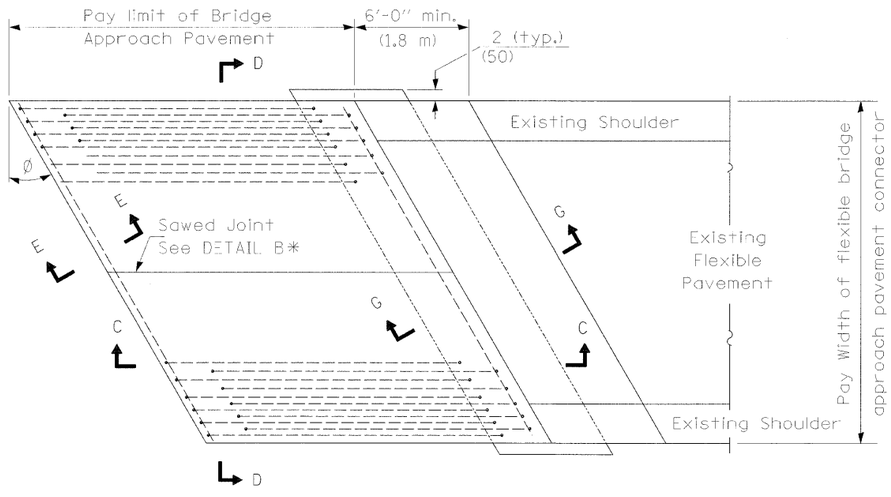
FILE NAME = $FILEL$	USER NAME = $USER$	DESIGNED -	REVISED -	STATE OF ILLINOIS DEPARTMENT OF TRANSPORTATION	BRIDGE APPROACH PAVEMENT	F.A.P RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
		DRAWN -	REVISED -			17	101BR-4	OGLE	60	37
	PLOT SCALE = $SCALE$	CHECKED	REVISED -					CONTRACT NO. 64D11		
	PLOT DATE = $DATE$	DATE -	REVISED -		SCALE: SHEET NO. 1 OF 4 SHEETS STA. TO STA.	FED. ROAD DIST. NO.	ILLINOIS	FED. AID PROJECT		



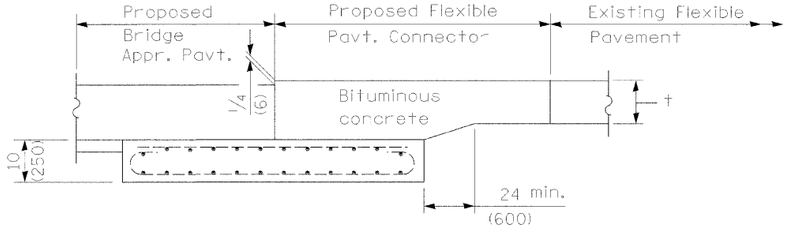
BRIDGE APPROACH PAVEMENT CONNECTOR (PCC)



SECTION G-G - RIGID PAVEMENT



BRIDGE APPROACH PAVEMENT CONNECTOR (FLEXIBLE)



SECTION G-G - FLEXIBLE PAVEMENT

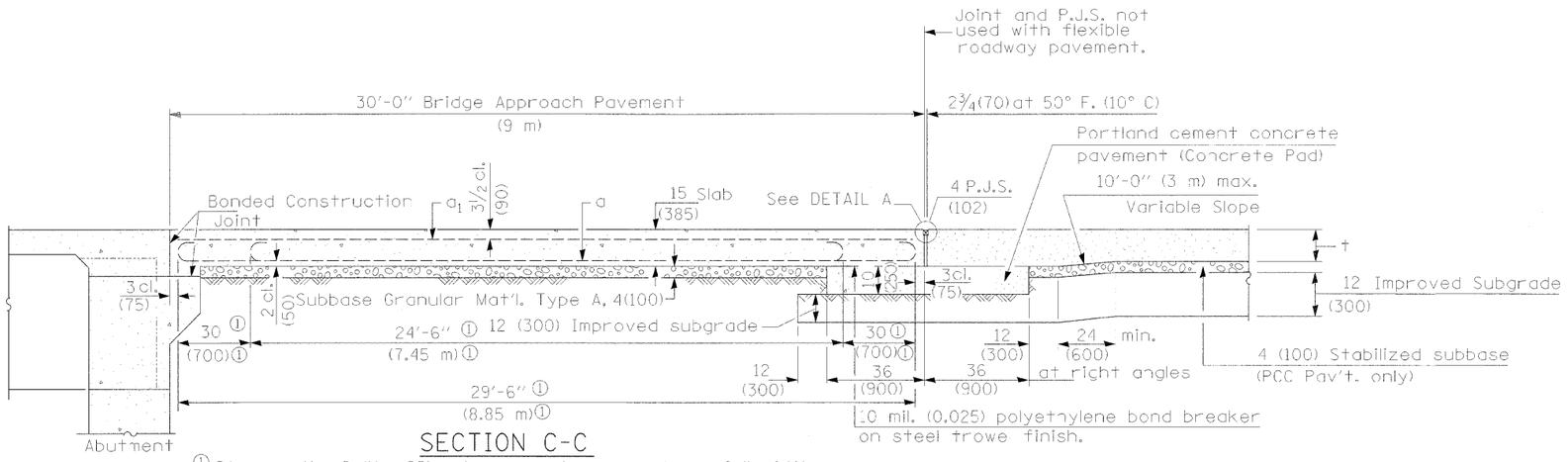
FILE NAME = $FILE$	USER NAME = $USER$	DESIGNED -	REVISED -
		DRAWN -	REVISED -
	PLOT SCALE = $SCALE$	CHECKED -	REVISED -
	PLOT DATE = $DATE$	DATE	REVISED -

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

BRIDGE APPROACH PAVEMENT

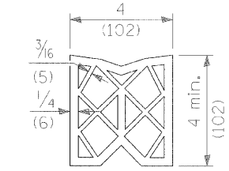
SCALE: | SHEET NO. 2 OF 4 SHEETS | STA. | TO STA.

F.A.P RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
17	101BR-4	OGLE	60	38
		CONTRACT NO. 64D11		
FED. ROAD DIST. NO.	ILLINOIS	FED. AID PROJECT		

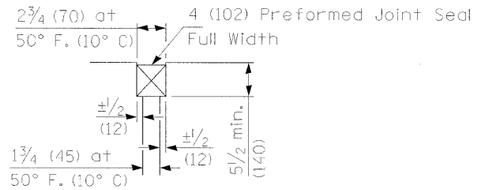


SECTION C-C

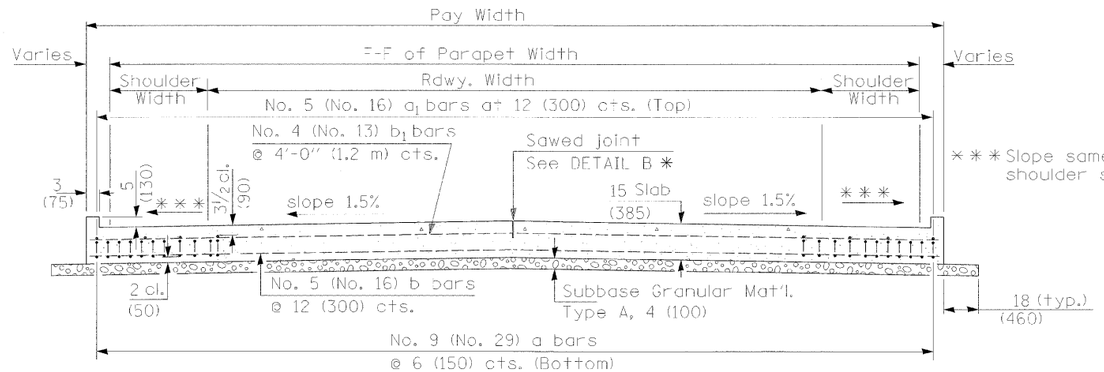
① Stagger No. 9 (No. 29) a bars as shown on plan - full width



PREFORMED JOINT SEAL



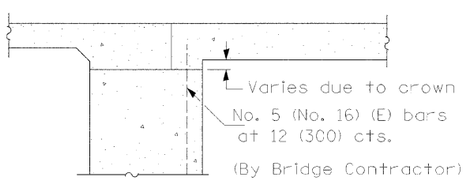
DETAIL A



* * * Slope same as adjacent shoulder slope.

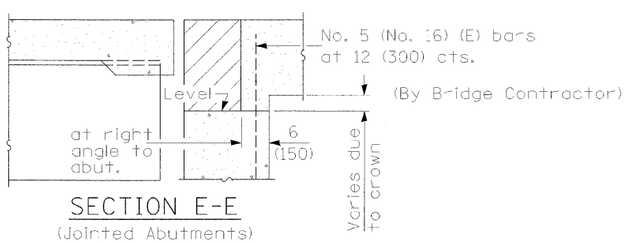
SECTION D-D

(See Plan for Dimensions not shown)



SECTION E-E

(Integral Abutments)

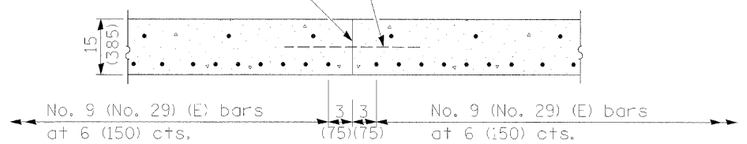


SECTION E-E

(Jointed Abutments)

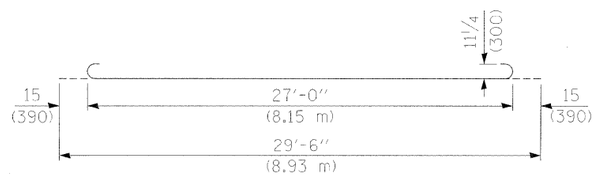
Longitudinal Construction Joint in accordance with details shown on Standard 420001.

No. 6 (No. 19) Tie bars at 30 (760) cts.

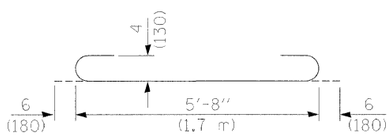


OPTIONAL LONGITUDINAL CONSTRUCTION JOINT

As approved by the Engineer, the Contractor may elect to reduce the widths of pour by use of the Optional Longitudinal Construction Joint shown. Joints shall be located at the edge of a traffic lane.



BAR a

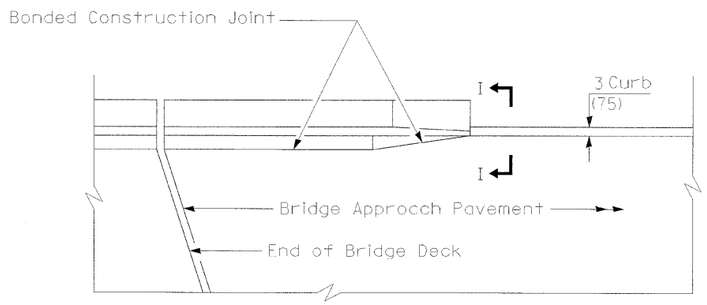


BAR a_2

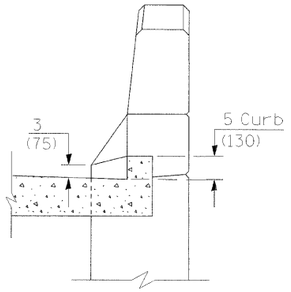
DESIGN STRESSES

fy = 60,000 p.s.i. (400 MPa)
f'c = 3,500 p.s.i. (24 MPa)
n = 8.5

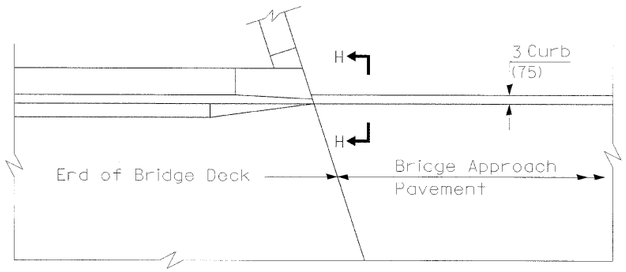
FILE NAME = #FILE#	USER NAME = #USER#	DESIGNED -	REVISED -	STATE OF ILLINOIS DEPARTMENT OF TRANSPORTATION	BRIDGE APPROACH PAVEMENT	F.A.P RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
		DRAWN -	REVISED -			17	101BR-4	OGLE	60	39
	PLOT SCALE = #SCALE#	CHECKED -	REVISED -						CONTRACT NO. 64D11	
	PLOT DATE = #DATE#	DATE -	REVISED -		SCALE: SHEET NO. 3 OF 4 SHEETS STA. TO STA.	FED. ROAD DIST. NO.	ILLINOIS	FED. AID PROJECT		



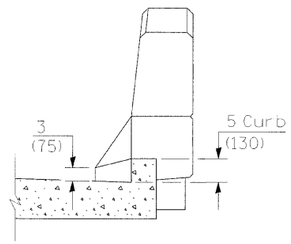
PARAPET TO CURB TRANSITION
PILE BENT ABUTMENT



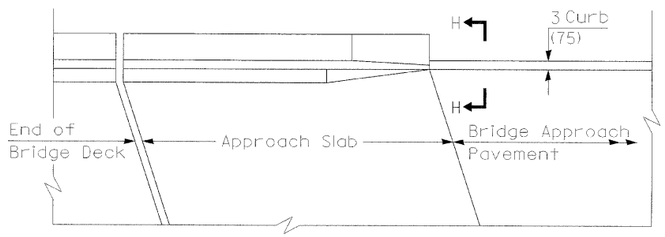
SECTION I - I



PARAPET TO CURB TRANSITION
INTEGRAL ABUTMENT



SECTION H - H



PARAPET TO CURB TRANSITION
VAULTED ABUTMENT

FILE NAME = $FILEL$	USER NAME = $USER$	DESIGNED -	REVISED -
		DRAWN -	REVISED -
	PLOT SCALE = $SCALE$	CHECKED -	REVISED -
	PLOT DATE = $DATE$	DATE -	REVISED -

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

BRIDGE APPROACH PAVEMENT

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

F.A.P RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
17	101BR-4	OGLE	60	40
		CONTRACT NO. 64D11		
FED. ROAD DIST. NO.	ILLINOIS	FED. AID PROJECT		

STORM WATER POLLUTION PREVENTION PLAN
EROSION CONTROL PLAN

THE FOLLOWING PLAN WAS ESTABLISHED AND INCLUDED IN THESE PLANS TO DIRECT THE CONTRACTOR IN THE PLACEMENT OF TEMPORARY EROSION CONTROL SYSTEMS AND TO PROVIDE A STORM WATER POLLUTION PREVENTION PLAN FOR COMPLIANCE UNDER NPDES.

THE PURPOSE OF THIS PLAN IS TO MINIMIZE SILTATION WITHIN THE CONSTRUCTION ZONE AND TO ELIMINATE SEDIMENTS FROM ENTERING AND LEAVING THE CONSTRUCTION ZONE BY UTILIZING PROPER TEMPORARY EROSION CONTROL SYSTEMS AND PROVIDING GROUND COVER WITHIN A REASONABLE AMOUNT OF TIME.

CERTAIN ITEMS, AS SHOWN IN THIS PLAN AND REFERENCED BY THE LEGEND, SHALL BE PLACED BY THE CONTRACTOR AT THE BEGINNING OF CONSTRUCTION. OTHER ITEMS SHALL BE PLACED BY THE CONTRACTOR AS DIRECTED BY THE ENGINEER ON A CASE BY CASE SITUATION RESULTING FROM THE CONTRACTOR'S SEQUENCE OF ACTIVITIES, TIME OF YEAR, AND EXPECTED WEATHER CONDITIONS.

THE CONTRACTOR SHALL PLACE PERMANENT EROSION CONTROL SYSTEMS AND SEEDING WITHIN A REASONABLE AMOUNT OF TIME: THEREFORE, REDUCING THE AMOUNT OF AREA BEING OPEN TO THE POSSIBILITY OF EROSION AND REDUCING THE AMOUNT OF TEMPORARY SEEDING. THE RESIDENT ENGINEER WILL DETERMINE IF TEMPORARY EROSION CONTROL SYSTEMS SHOWN IN THE PLAN CAN BE DELETED, THE SIZE OF THE PROPOSED DITCH CHECKS, THE PROPER METHOD OF INSTALLATION, AND IF ANY ADDITIONAL TEMPORARY EROSION CONTROL SYSTEMS SHALL BE ADDED WHICH ARE NOT INCLUDED IN THE PLANS. THE CONTRACTOR SHALL PERFORM ALL WORK AS DIRECTED BY THE ENGINEER AND AS SHOWN IN STANDARD 280001 OF THE PLANS.

SITE DESCRIPTION

DESCRIPTION OF CONSTRUCTION ACTIVITY: REMOVAL AND REPLACEMENT OF EXISTING STRUCTURE.

THIS PROJECT CONSISTS OF RESURFACING OF 620 LF OF PAVEMENT W/ HMA SHOULDERS AMD 320 LF OF CREEK CHANNEL REALIGNMENT.

DESCRIPTION OF INTENDED SEQUENCE OF ACTIVITIES:

THE SEQUENCE OF EVENTS ARE AS FOLLOW: CLEARING, EMBANKMENT, EXCAVATION, GRADING AND PAVING. THIS PROJECT WILL BE CONSTRUCTED IN SEGMENTS AS SHOWN IN THE "STAGING PLANS".

TOTAL CONSTRUCTION SITE (CONSTRUCTION LIMIT TO CONSTRUCTION LIMIT) 3.15 ACRES

PROPOSED R.O.W (TOTAL PARCEL AREA) 0.40 ACRES

DISTURBED BY EXCAVATION (E.O.P TO CONSTRUCTION LIMIT) 2.27 ACRES

SUPPORTING REPORTS AND PLANS

THE FOLLOWING ASSISTED IN DEVELOPING THE EROSION CONTROL PLAN AS REFERENCED DOCUMENTS:

SOIL PROFILE SHEETS, SOILS REPORTS, BORING LOGS
USGS DRAINAGE MAPS, PROJECT PLAN DOCUMENTS

DRAINAGE TRIBUTARIES RECEIVING WATER FROM CONSTRUCTION SITE

FIVE MILE CREEK

EROSION CONTROLS AND SEDIMENT CONTROL PROCEDURES

STABILIZATION PRACTICES AT THE BEGINNING OF CONSTRUCTION:

PERIMETER EROSION CONTROL SHALL BE PLACED PRIOR TO BEGINNING EARTHWORK.

STABILIZATION PRACTICES DURING CONSTRUCTION:

AS EARTH EXCAVATION AND EMBANKMENT ARE BEING COMPLETED THE CONTRACTOR SHALL PLACE DITCH CHECKS, INLET AND PIPE PROTECTION, EROSION CONTROL BLANKET, AND SEEDING AS STAGES OF THE PROJECT ARE COMPLETED. PERIMETER EROSION BARRIER WILL BE INSTALLED AT ADDITIONAL LOCATIONS AS THE PROJECT PROGRESSES. SEEDING SHALL BE COMPLETED AS SPECIFIED IN THE EROSION CONTROL/SEEDING MOBILIZATION AND TEMPORARY SEEDING SPECIAL PROVISION.

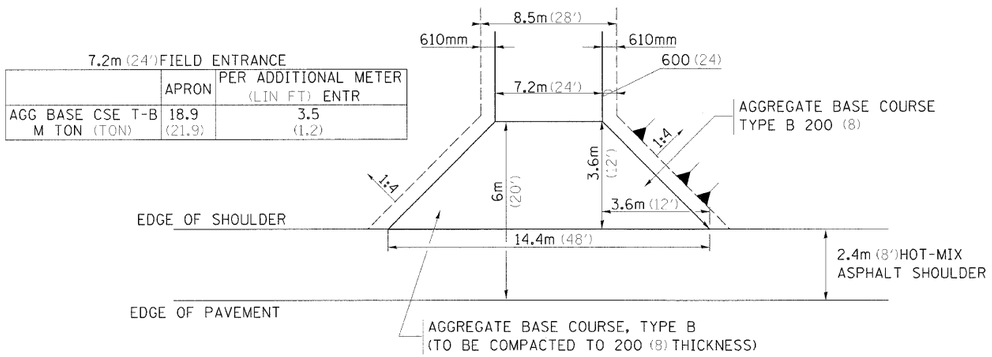
MAINTENANCE AFTER FINAL GRADING

TEMPORARY EROSION CONTROL SYSTEMS SHALL BE LEFT IN PLACE WITH PROPER MAINTENANCE UNTIL PERMANENT EROSION CONTROL IS IN PLACE AND WORKING PROPERLY AND ALL PROPOSED TURF AREAS SEEDED AND ESTABLISHED WITH THE PROPER STAND. ONCE PERMANENT EROSION CONTROL SYSTEMS AS PROPOSED IN THE PLANS ARE FUNCTIONAL AND ESTABLISHED, TEMPORARY ITEMS SHALL BE REMOVED, CLEANED UP AND DISTURBED TURF RESEEDED.

FILE NAME = $FILE_$	USER NAME = $USER$	DESIGNED -	REVISED - 5-12-04	STATE OF ILLINOIS DEPARTMENT OF TRANSPORTATION	REGION 2 / DISTRICT 2 STANDARD	F.A.P RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
		DRAWN -	REVISED -			17	101BR-4	OGLE	60	41
	PLOT SCALE = $SCALE$	CHECKED	REVISED -					CONTRACT NO. 64D11		
	PLOT DATE = $DATE$	DATE -	REVISED -		SCALE: NTS SHEET NO. OF SHEETS STA. TO STA.	FED. ROAD DIST. NO.	ILLINOIS	FED. AID PROJECT		

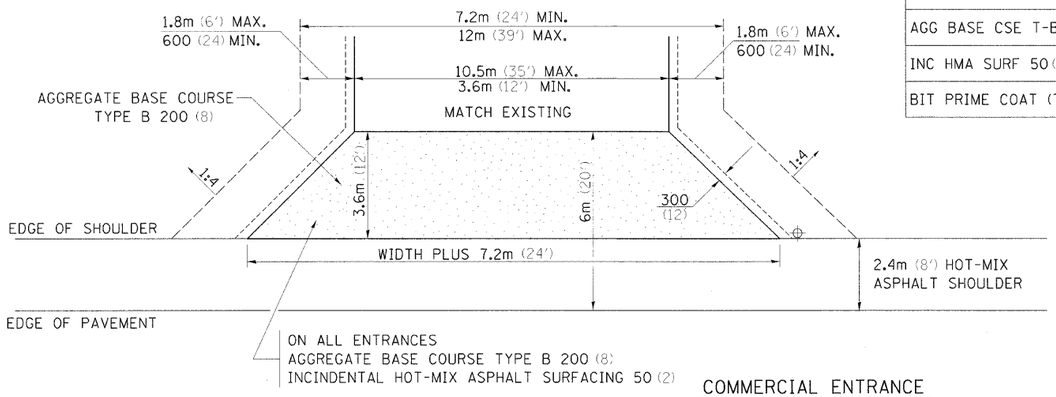
ENTRANCE AND SIDEROADS WITH 2.4m (8') HOT-MIX ASPHALT SHOULDERS

7.2m (24') FIELD ENTRANCE	APRON	PER ADDITIONAL METER (LIN FT) ENTR
AGG BASE CSE T-B M TON (TON)	18.9 (21.9)	3.5 (1.2)

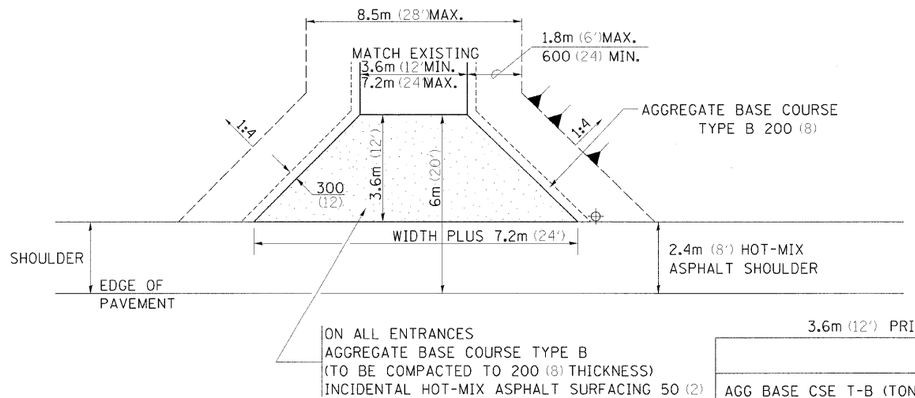


FIELD ENTRANCE

COMMERICAL ENTRANCE	3.6m (12')	10.5m (35')	PER METER ENTR (FOOT) 3.6m (12')	10.5m (35')
AGG BASE CSE T-B (TON)	14.3 (15.8)	27.0 (29.8)	0.64 (0.70)	1.70 (1.87)
INC HMA SURF 50 (2) (TON)	3.3 (3.6)	6.35 (7.0)	0.14 (0.15)	0.40 (0.44)
BIT PRIME COAT (TON)	0.042 (0.046)	0.082 (0.090)	0.002 (0.002)	0.005 (0.006)



COMMERCIAL ENTRANCE

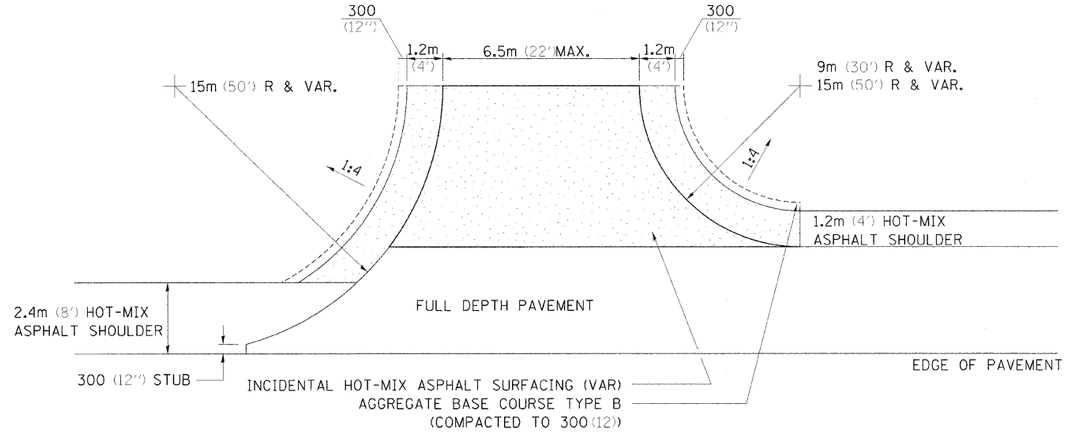


PRIVATE ENTRANCE

3.6m (12') PRIVATE ENTRANCE	3.6m (12')	7.2m (24')	PER METER ENTR (FOOT) 3.6m (12')	7.2m (24')
AGG BASE CSE T-B (TON)	14.3 (15.8)	21.0 (23.1)	0.64 (0.70)	1.20 (1.32)
INC HMA SURF 50 (2) (TON)	3.3 (3.6)	4.9 (5.4)	0.14 (0.15)	0.27 (0.30)
BIT PRIME COAT (TON)	0.042 (0.046)	0.063 (0.069)	0.002 (0.002)	0.004 (0.004)

NOTE

1. ALL PE & CE ARE TO BE INCIDENTAL HOT-MIX ASPHALT SURFACED TO RIGHT OF WAY LINE. AREA BEHIND RIGHT OF WAY SHALL MATCH EXISTING SURFACE.
2. FE ARE TO BE AGGREGATE TO RIGHT OF WAY OR TOUCH DOWN, WHICH EVER IS GREATEST.
3. QUANTITIES ARE CALCULATED WITH 2.4m HOT-MIX ASPHALT SHOULDER IN PLACE. AGGREGATE QUANTITIES SHOWN ARE FOR NEW CONSTRUCTION.
4. EXCAVATION REQUIRED FOR PLACEMENT OF AGGREGATE BASE COURSE SHALL BE CONSIDERED INCLUDED TO THE AGGREGATE BASE COURSE.
5. ALL DIMENSIONS ARE IN MILLIMETERS (INCHES) UNLESS OTHERWISE NOTED.



SIDE ROAD RETURN

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		DRAWN -	REVISED -	
	PLOT SCALE = $SCALE$	CHECKED -	REVISED -	
	PLOT DATE = $DATE$	DATE -	REVISED -	

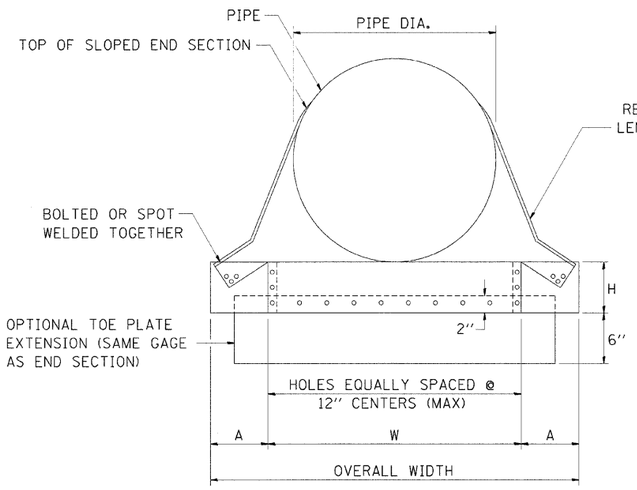
STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

REGION 2 / DISTRICT 2 STANDARD

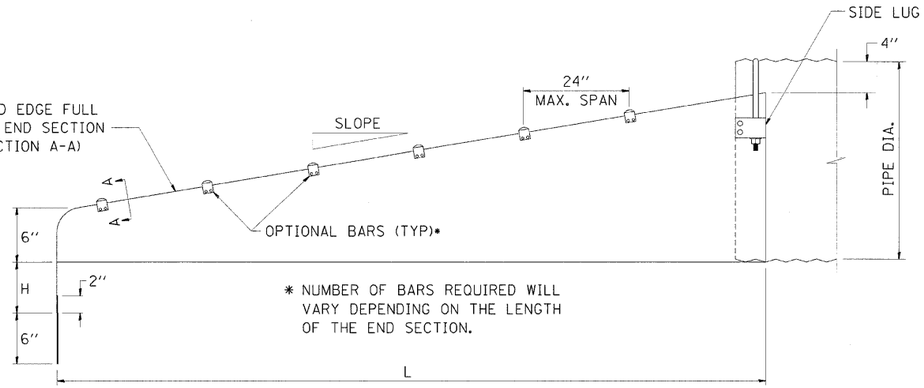
SCALE: NTS | SHEET NO. OF SHEETS | STA. | TO STA.

F.A.P RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
17	101BR-4	OGLE	60	42
		CONTRACT NO. 64D11		
FED. ROAD DIST. NO.	ILLINOIS	FED. AID PROJECT		

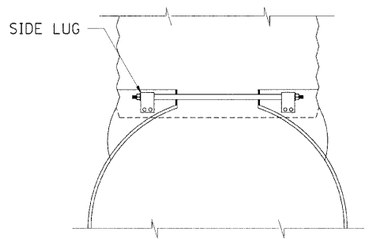
SLOPED METAL END SECTIONS WITH GRATE



FRONT VIEW ROUND PIPE



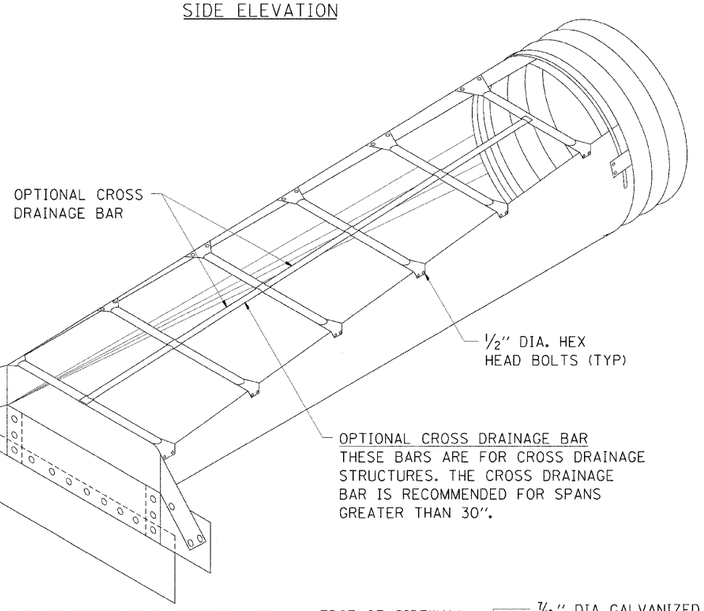
SIDE ELEVATION



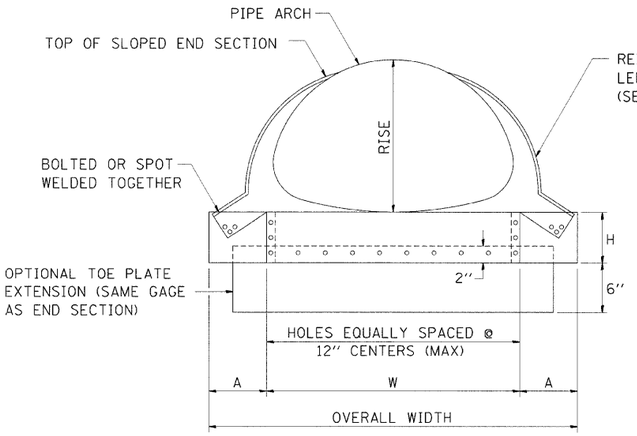
TYPE #2 CONNECTOR DETAILS (SHOWN)

TYPE #1 CONNECTOR DETAILS
THRU 24"
GALVANIZED STRAP

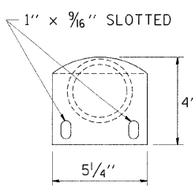
TYPE #2 CONNECTOR DETAILS (SHOWN)
FOR 30" AND LARGER
21" x 15" AND LARGER
1/2" THREADED ROD W/FLANGED NUT AND SIDE LUG

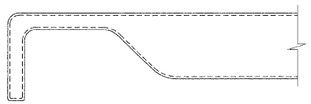


CIRCULAR PIPE ISOMETRIC VIEW



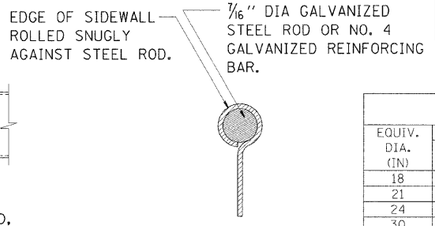
FRONT VIEW PIPE ARCH





3" GALVANIZED PIPE FLATTEN END, THEN BEND OUTSIDE 4" TO MATCH END SECTION SIDES.

DETAIL OF OPTIONAL BARS



SECTION A-A

GENERAL NOTES

1. CONNECTORS - ROUND SIZES THRU 24" ATTACH TO PIPE WITH TYPE #1 STRAPS, ALL OTHER SIZES ATTACH WITH TYPE #2 RODS AND LUGS.
2. TOE PLATE EXTENSIONS - WHEN REQUIRED, TOE PLATE EXTENSIONS ARE TO BE THE SAME GAGE AS END SECTION. DIMENSIONS SHALL BE OVERALL WIDTH LESS 6 INCHES BY 8 INCHES HIGH.
3. OPTIONAL BARS - BARS WHEN SPECIFIED, SHALL BE SCHEDULE 40 GALVANIZED STEEL PIPE.
4. TYPICALLY PARALLEL BARS ARE PLACED ON 24" CENTERS.
5. TYPICALLY THE CROSS BARS ARE USED ON CROSS DRAIN APPLICATIONS.
6. HOLES FOR BAR ATTACHMENTS SHALL BE PROVIDED ON ALL END SECTIONS.
7. DIMENSIONS ARE SUBJECT TO MANUFACTURING TOLERANCES.
8. THESE END SECTIONS WILL BE PAID FOR AT THE CONTRACT UNIT PRICE PER EACH FOR SLOPED METAL END SECTIONS WITH GRATE OF THE DIAMETER SPECIFIED, WHICH SHALL INCLUDE FURNISHING AND INSTALLING THE END SECTION COMPLETE IN PLACE, INCLUDING THE TOE PLATE, EXCAVATING, BACKFILLING, CONNECTING TO THE PIPE, AND CROSS DRAINAGE BARS.

METAL END SECTIONS FOR ROUND PIPE

PIPE DIA. (IN)	MIN. THICK		DIMENSIONS (INCHES)				L DIMENSIONS			
	IN.	GAGE	A	H	W	OVERALL WIDTH	SLOPE	LENGTH (IN.)	SLOPE	LENGTH (IN.)
15	.064	16	8	6	21	37	6:1	30	4:1	20
18	.064	16	8	6	24	40	6:1	48	4:1	32
21	.064	16	8	6	27	43	6:1	66	4:1	44
24	.064	16	8	6	30	46	6:1	84	4:1	56
30	.109	12	12	9	36	60	6:1	120	4:1	80
36	.109	12	12	9	42	66	4:1	104	6:1	156
42	.109	12	16	12	48	80	4:1	128	6:1	192
48	.109	12	16	12	54	86	4:1	152	6:1	228
54	.109	12	16	12	60	92	4:1	176	6:1	264
60	.109	12	16	12	66	98	4:1	200	6:1	300

METAL END SECTIONS FOR PIPE ARCH

EQUIV. DIA. (IN)	(INCHES)		MIN. THICK		DIMENSIONS (INCHES)				L DIMENSIONS			
	SPAN	RISE	IN.	GAGE	A	H	W	OVERALL WIDTH	SLOPE	LENGTH (IN.)	SLOPE	LENGTH (IN.)
18	21	15	.064	16	8	6	27	43	6:1	30	4:1	20
21	24	18	.064	16	8	6	30	46	6:1	48	4:1	32
24	28	20	.064	16	8	6	34	50	6:1	60	4:1	40
30	36	24	.079	14	12	9	41	65	6:1	84	4:1	56
36	42	29	.109	12	12	9	48	72	6:1	114	4:1	76
42	49	33	.109	12	16	12	55	87	4:1	92	6:1	138
48	57	38	.109	12	16	12	63	95	4:1	112	6:1	168
54	64	43	.109	12	16	12	70	102	4:1	132	6:1	198
60	71	47	.109	12	16	12	77	109	4:1	148	6:1	222
72	83	57	.109	12	16	12	89	121	4:1	188	6:1	282

FILE NAME = $FILEL$	USER NAME = $USER$	DESIGNED -	REVISED - 5-8-96
		DRAWN -	REVISED -
	PLOT SCALE = $SCALE$	CHECKED -	REVISED -
	PLOT DATE = $DATE$	DATE -	REVISED -

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

REGION 2 / DISTRICT 2 STANDARD

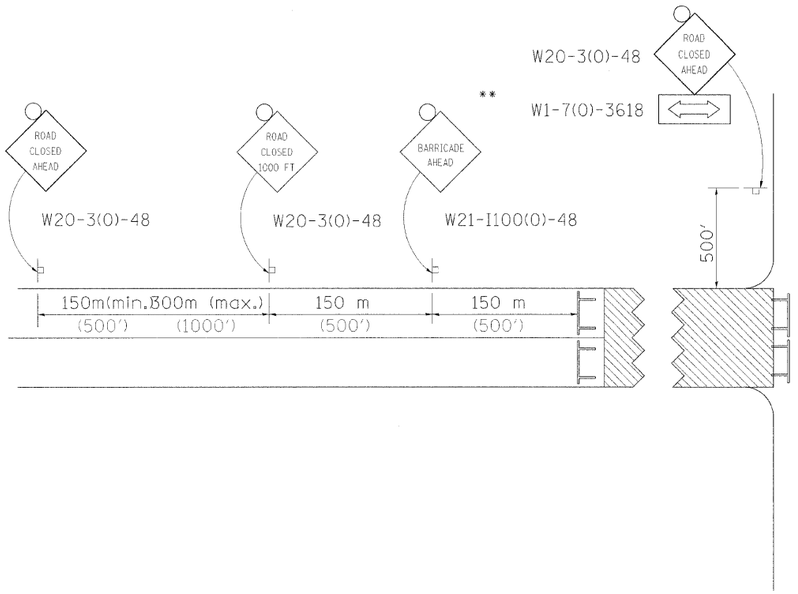
SCALE: | SHEET NO. OF SHEETS | STA. | TO STA.

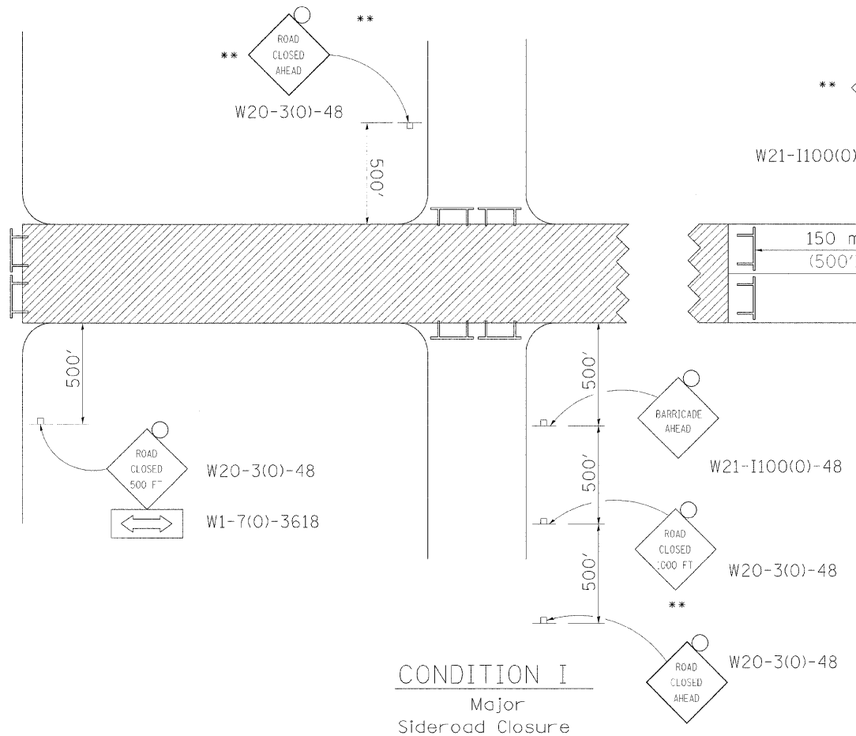
F.A.P RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
17	101BR-4	OGLE	60	43
		CONTRACT NO. 64D11		
FED. ROAD DIST. NO.	ILLINOIS	FED. AID PROJECT		

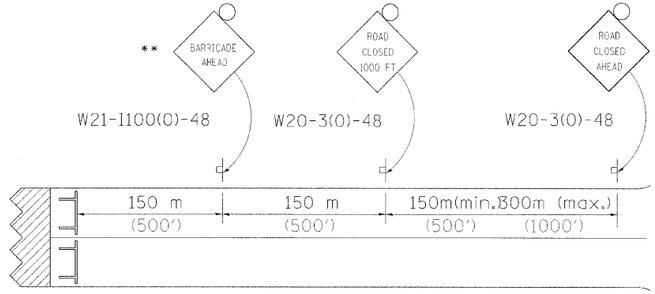
TRAFFIC CONTROL FOR ROAD CLOSURE

CONDITION II

Minor
Sideroad Closure







CONDITION I

Major
Sideroad Closure

GENERAL NOTES

Longitudinal dimensions may be adjusted to fit field conditions.

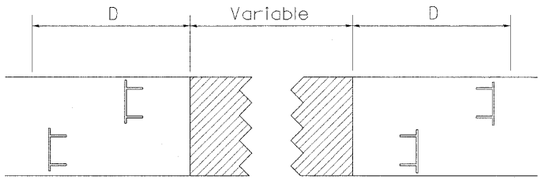
When speed limit is less than 45mph, change sign spacing to 250' and change ROAD CLOSED 1000 FT to ROAD CLOSED 500 FT.

Side roads requiring all three signs as shown in CONDITION I (Major Sideroad Closure), shall be listed in the special provision.

**

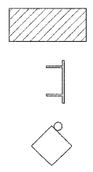
Where local access is to be maintained, barricades are to be set up as shown in Road Closed to thru traffic. Type III Barricades and R11-2-4830 signs shall be as shown in "Road Closed To All Traffic" detail on Highway Standard 701901.

ROAD CLOSED TO THRU TRAFFIC BARRICADE SET UP



Type III Barricades and R11-4-4830 signs shall be as shown in "Road Closed To All Thru Traffic" detail on Highway Standard 701901. If the distance "D" exceeds 600 m (2000') an additional set of barricades and R11-4-4830 shall be placed at each end of the work area.

SYMBOLS



Work area

Type III Barricade with Flashers

Sign with flashing light

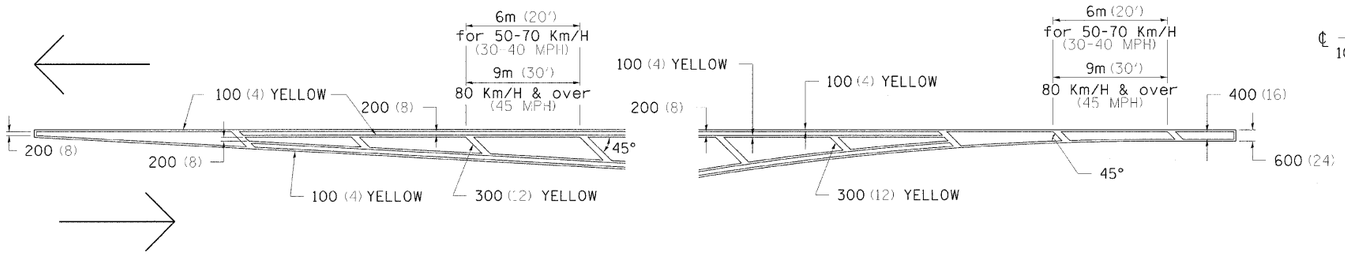
All dimensions are in millimeters (inches) unless otherwise shown.

TYPICAL APPLICATION FOR ROAD CLOSURE

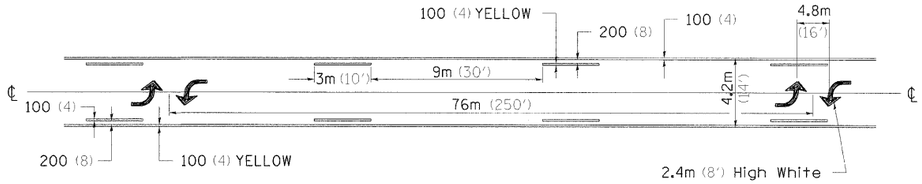
FILE NAME = *FILEL*	USER NAME = *USER*	DESIGNED -	REVISED - 1-11-08	STATE OF ILLINOIS DEPARTMENT OF TRANSPORTATION	REGION 2 / DISTRICT 2 STANDARD			F.A.P RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
		DRAWN -	REVISED -					17	101BR-4	OGLE	60	44
	PLOT SCALE = *SCALE*	CHECKED -	REVISED -							CONTRACT NO. 64D11		
	PLOT DATE = *DATE*	DATE -	REVISED -		SCALE: NTS	SHEET NO. OF SHEETS	STA. TO STA.	FED. ROAD DIST. NO.	ILLINOIS	FED. AID PROJECT		

TYPICAL PAVEMENT MARKINGS

TYPICAL PAVEMENT MARKING FOR FLUSH MEDIAN AT LEFT TURN LANE

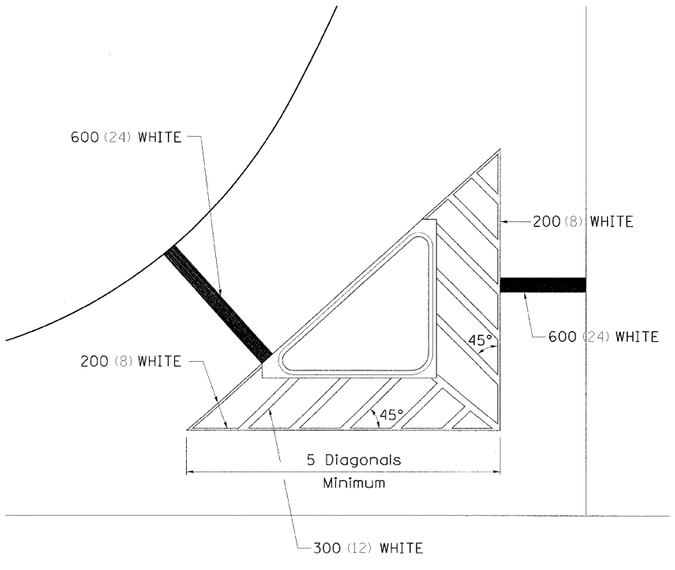


MEDIAN PAVEMENT MARKING

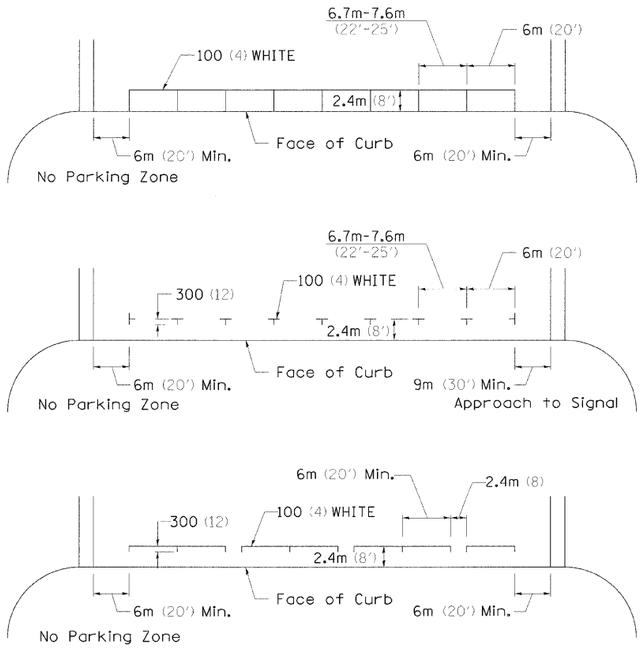


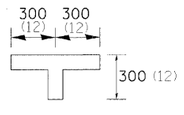
•• ALL DIMENSIONS ARE IN MILLIMETERS (INCHES) UNLESS OTHERWISE NOTED.

TYPICAL ISLAND OFFSET SHOULDER WIDTH



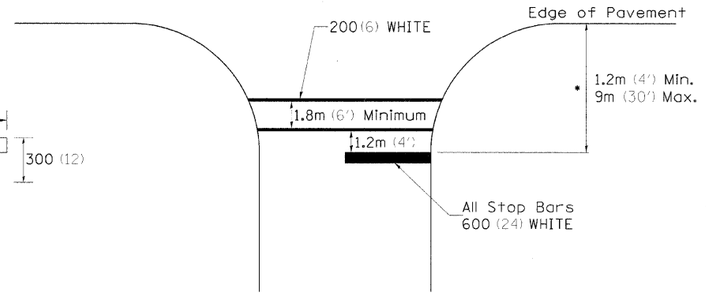
TYPICAL PARKING SPACING





STANDARD CROSSWALK MARKING

See Schedules for Locations



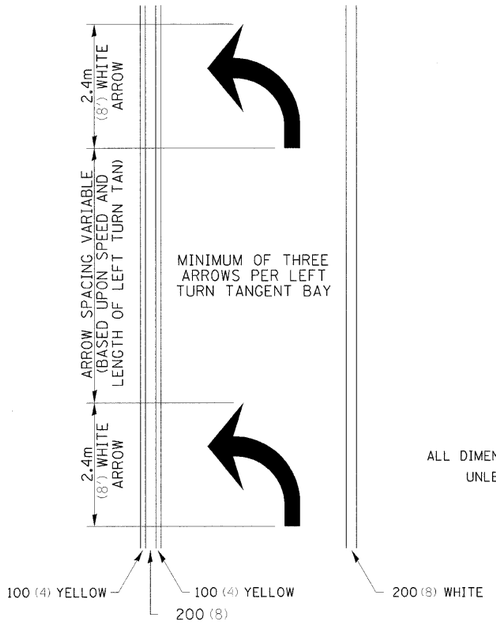
• Distance to the nearest edge of the intersecting roadway in the absence of a marked crosswalk.

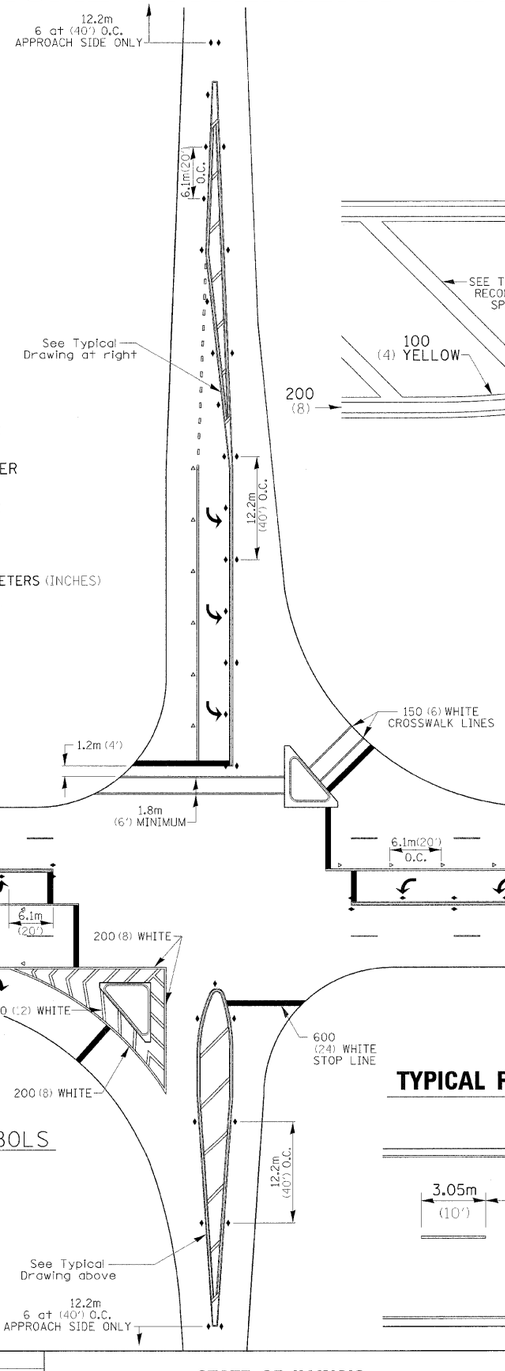
FILE NAME = $FILEL$	USER NAME = $USER$	DESIGNED -	REVISED - 1-11-08	STATE OF ILLINOIS DEPARTMENT OF TRANSPORTATION	REGION 2 / DISTRICT 2 STANDARD	F.A.P RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
		DRAWN -	REVISED -			17	101BR-4	OGLE	60	45
	PLOT SCALE = $SCALE$	CHECKED -	REVISED -					CONTRACT NO. 64D11		
	PLOT DATE = $DATE$	DATE -	REVISED -		SCALE: SHEET NO. OF SHEETS STA. TO STA.	FED. ROAD DIST. NO.	ILLINOIS	FED. AID PROJECT		

TYPICAL PAVEMENT MARKINGS SHEET 1 OF 2 **41.1**

TYPICAL PAVEMENT MARKINGS

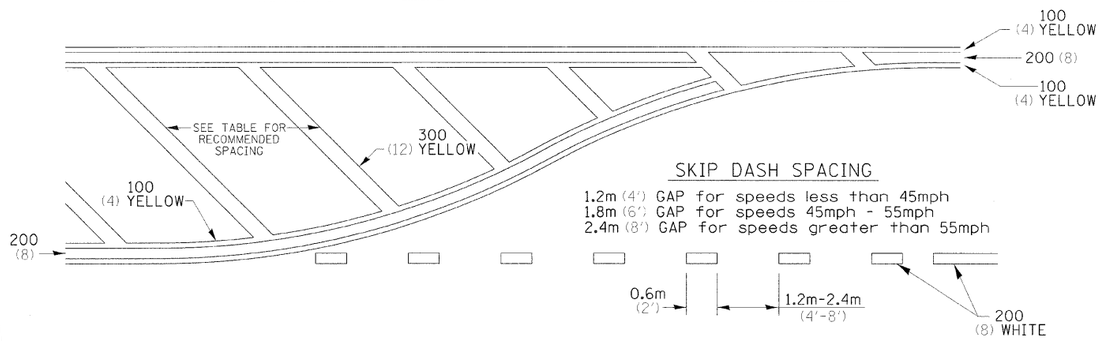
ARROW LAYOUT





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

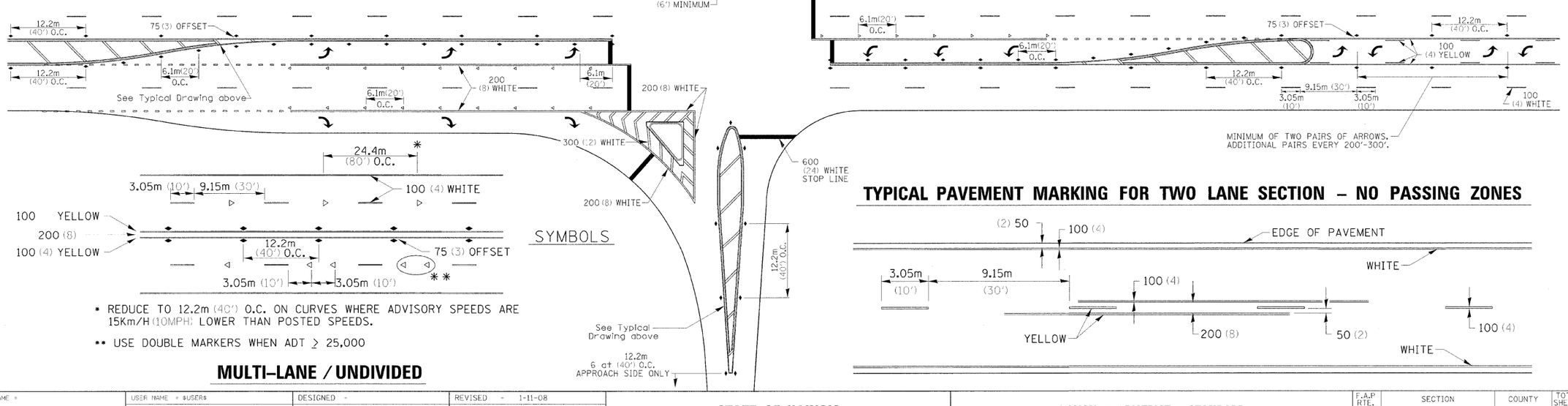
TYPICAL PAVEMENT MARKING FOR FLUSH MEDIAN



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.



* 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

FILE NAME = $FILE1$	USER NAME = $USER$	DESIGNED -	REVISED - 1-11-08
		DRAWN -	REVISED -
	PLOT SCALE = $SCALE$	CHECKED -	REVISED -
	PLOT DATE = $DATE$	DATE -	REVISED -

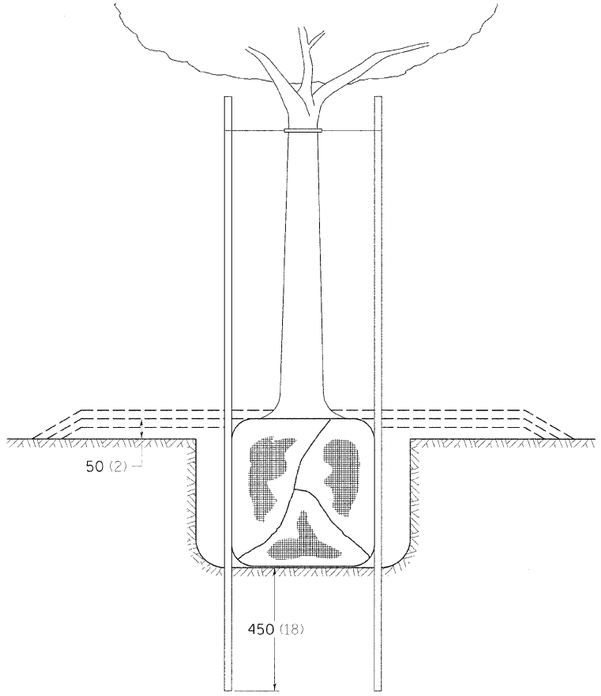
STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

REGION 2 / DISTRICT 2 STANDARD

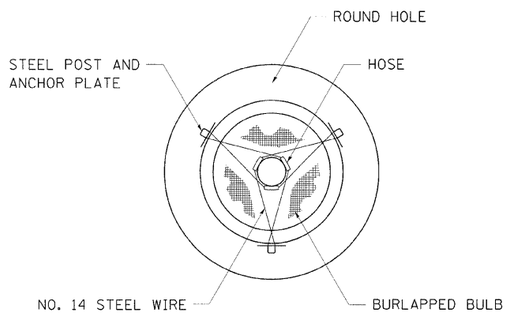
SCALE: | SHEET NO. OF SHEETS | STA. | TO STA.

F.A.P RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
17	101BR-4	OGLE	60	46
		CONTRACT NO. 64D11		
FED. ROAD DIST. NO.	ILLINOIS	FED. AID PROJECT		

DETAILS OF PLANTING AND BRACING TREES

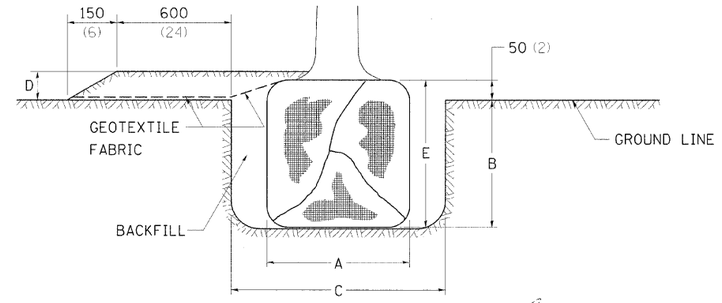


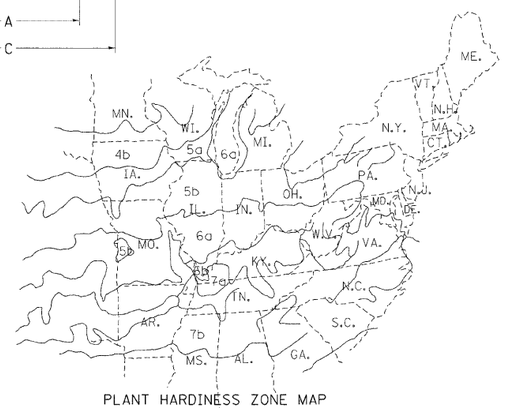
TREES SMALLER THAN 115 (4½) IN DIAMETER



SMALL TREE SIZE	A DIAMETER OF BALL OR ROOT SYS.	B DEPTH OF HOLE EXCAVATION	C WIDTH OF HOLE EXCAVATION	D THICKNESS OF MULCH COVER	E DEPTH OF BALL OR ROOT SYS.	F 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)

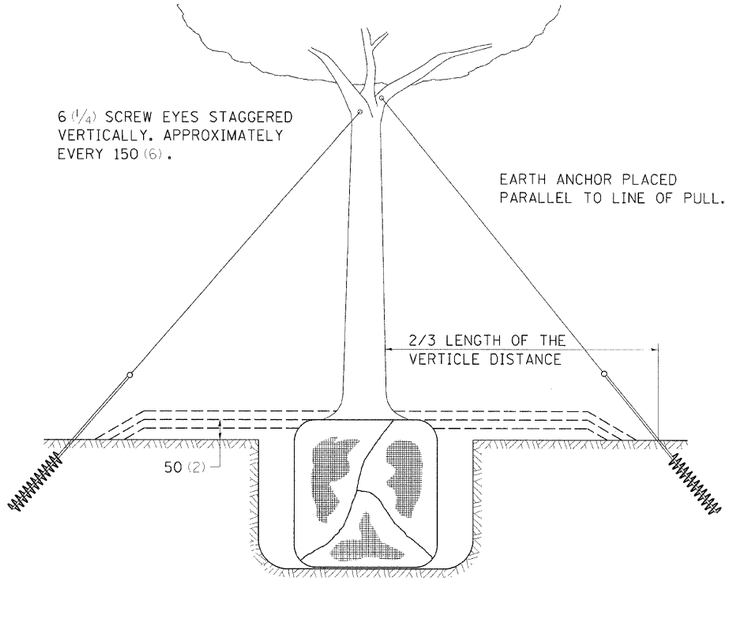
LARGE TREE SIZE	A DIAMETER OF BALL OR ROOT SYS.	B DEPTH OF HOLE EXCAVATION	C WIDTH OF HOLE EXCAVATION	D THICKNESS OF MULCH COVER	E DEPTH OF BALL OR ROOT SYS.	F VOLUME OF MULCH COVER m^3 (CU. YDS.)
0-50 (0-2)	500 (20)	275 (11)	900 (36)	100 (4)	325 (13)	0.47 (0.61)
50-65 (2-2½) BB	600 (24)	350 (14)	1200 (48)	100 (4)	400 (16)	0.60 (0.78)
65-75 (2½-3) BB	700 (28)	425 (17)	1200 (48)	100 (4)	475 (19)	0.60 (0.78)
75-90 (3-3½) BB	800 (32)	425 (17)	1500 (60)	100 (4)	475 (19)	0.73 (0.96)
90-100 (3½-4) BB	900 (36)	500 (20)	1500 (60)	100 (4)	550 (22)	0.73 (0.96)
100-115 (4-4½) BB	1000 (40)	550 (22)	1800 (72)	100 (4)	600 (24)	0.89 (1.16)
115-125 (4½-5) BB	1100 (44)	600 (24)	1800 (72)	100 (4)	650 (26)	0.89 (1.16)
125-140 (5-5½) BB	1200 (48)	675 (27)	2100 (84)	100 (4)	725 (29)	1.06 (1.38)



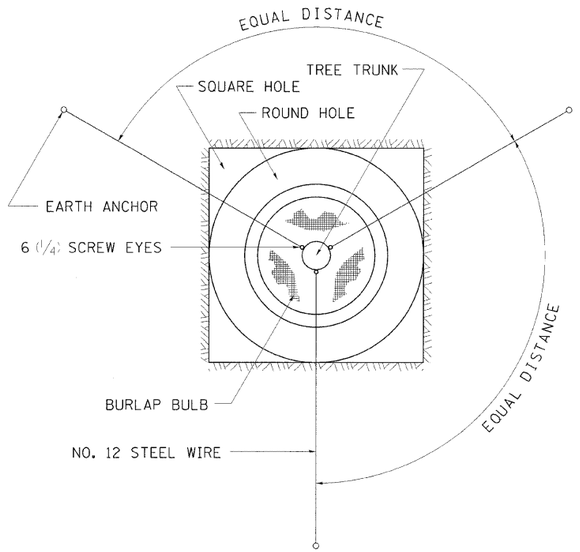


PLANT HARDINESS ZONE MAP

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



TREES OVER 115 (4½) IN DIAMETER

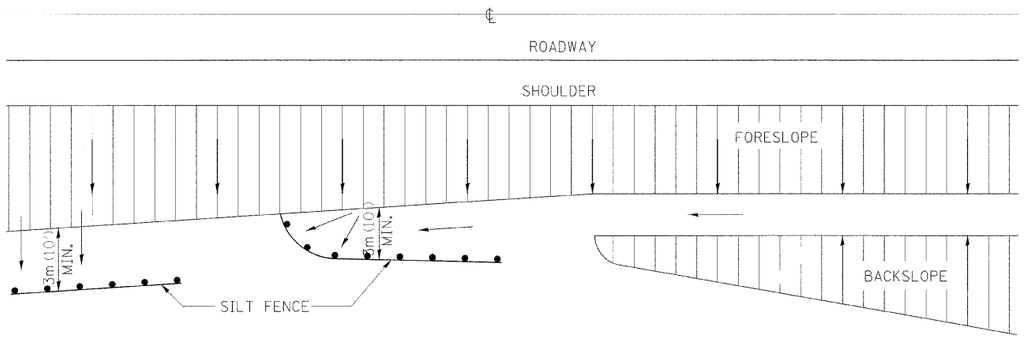


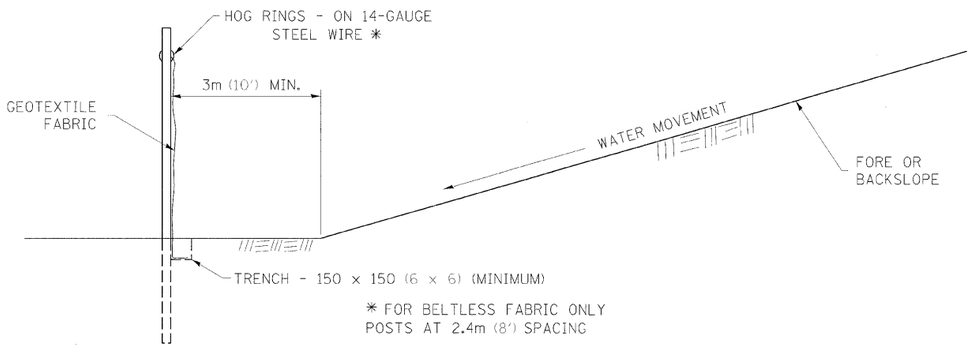
ALL DIMENSIONS ARE IN MILLIMETERS (INCHES) UNLESS OTHERWISE NOTED.

FILE NAME = #FILEL#	USER NAME = #USER#	DESIGNED -	REVISED - 10-15-04	STATE OF ILLINOIS DEPARTMENT OF TRANSPORTATION	REGION 2 / DISTRICT 2 STANDARD
		DRAWN -	REVISED -		
	PLOT SCALE = #SCALE#	CHECKED -	REVISED -		SCALE: / SHEET NO. OF SHEETS / STA. / TO STA.
	PLOT DATE = #DATE#	DATE -	REVISED -		

F.A.P RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
17	101BR-4	OGLE	60	47
		CONTRACT NO. 64D11		
FED. ROAD DIST. NO.	ILLINOIS	FED. AID PROJECT		

EROSION CONTROL DETAILS FOR SILT FENCE



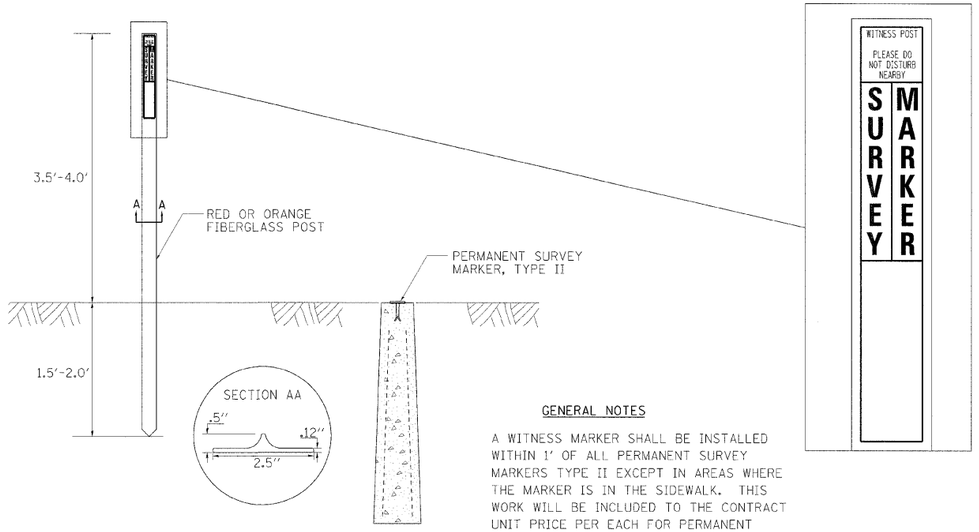


DETAILS OF SILT FENCE

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

REVISED - 10-22-01

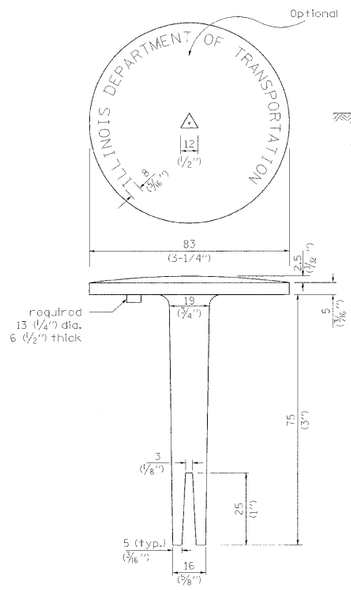
WITNESS MARKER FOR PERMANENT SURVEY MARKERS, TYPE II



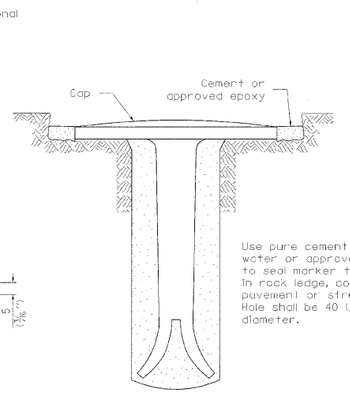
GENERAL NOTES

A WITNESS MARKER SHALL BE INSTALLED WITHIN 1' OF ALL PERMANENT SURVEY MARKERS TYPE II EXCEPT IN AREAS WHERE THE MARKER IS IN THE SIDEWALK. THIS WORK WILL BE INCLUDED TO THE CONTRACT UNIT PRICE PER EACH FOR PERMANENT SURVEY MARKERS, TYPE II.

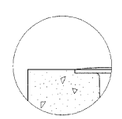
PERMANENT SURVEY MARKERS, TYPE II



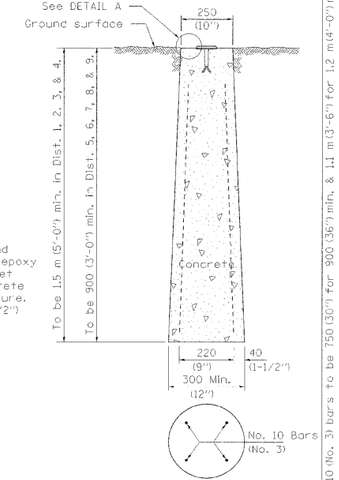
BRASS OR ALUMINUM TABLET



TYPE II



DETAIL A



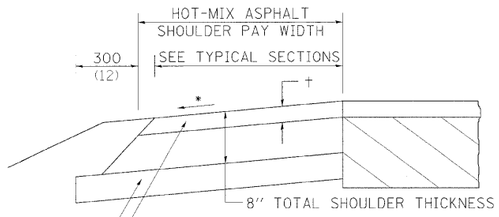
TYPE II

CAST-IN-PLACE MARKER

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

REVISED - 6-26-06	REGION 2 / DISTRICT 2 STANDARD			F.A.P RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
REVISED -				17	101BR-4	OGLE	60	48
REVISED -						CONTRACT NO. 64D11		
REVISED -	SCALE: $SCALE$	SHEET NO. OF SHEETS	STA. TO STA.	FED. ROAD DIST. NO.	ILLINOIS	FED. AID PROJECT		
PLOT DATE = $DATE$								

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.

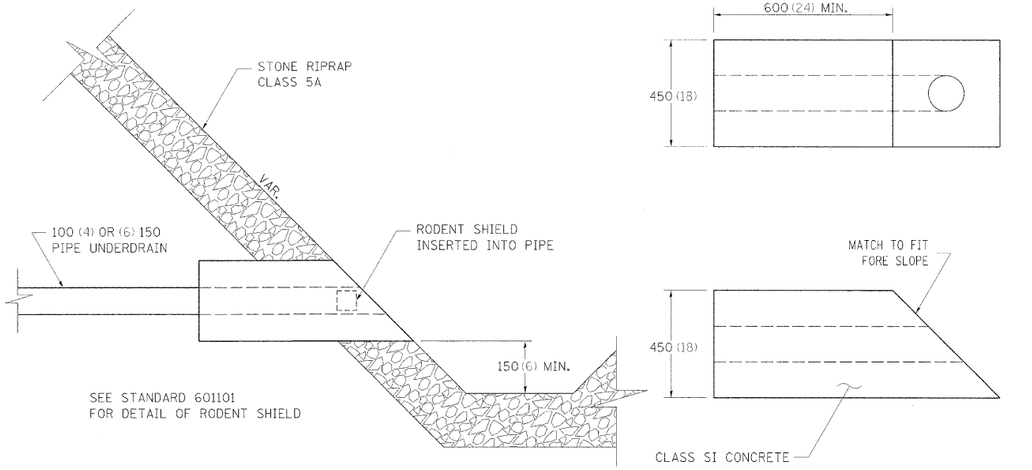
* 4% WHEN MAINLINE IS ON TANGENT. FOR CROSS SLOPE ON SUPERELEVATION SECTION, SEE HIGHWAY STANDARD 482001 OR 482006.

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

REVISED - 11-01-07

HOT–MIX ASPHALT SHOULDER **23.4a**

CONCRETE HEADWALLS FOR PIPE DRAINS

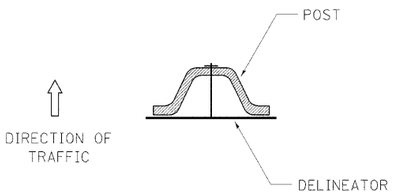


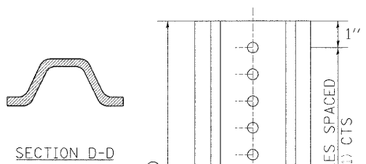
ALL DIMENSIONS ARE IN MILLIMETERS (INCHES) UNLESS OTHERWISE NOTED.

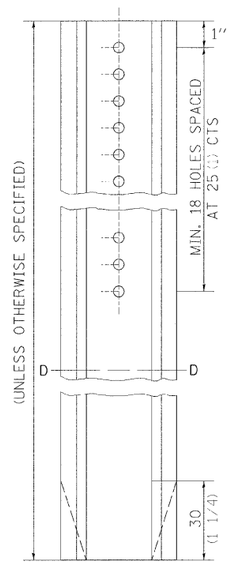
REVISED - 10-15-04

CONCRETE HEADWALLS FOR PIPE DRAINS **27.4**

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 ATTACHECD AS SHOWN ABOVE.

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

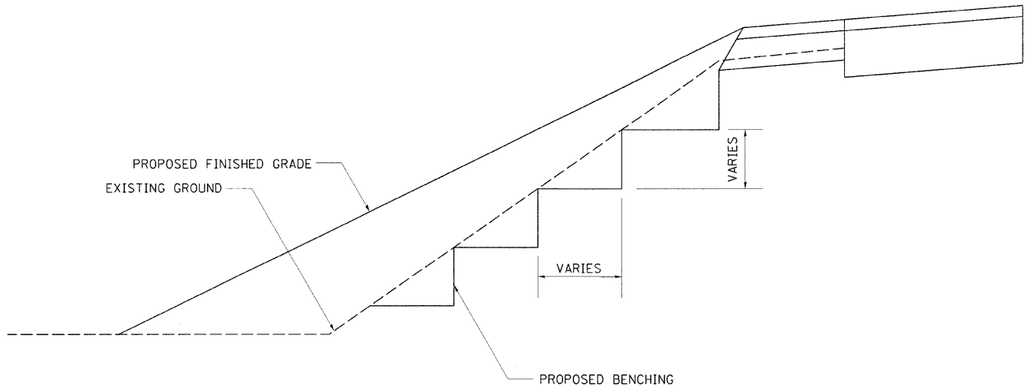
REVISED - 11-01-07

DELINEATOR AND POST ORIENTATION **37.4**

REVISED	**REGION 2 / DISTRICT 2 STANDARD**				F.A.P RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
REVISED -					17	101BR-4	OGLE	60	49
REVISED -								CONTRACT NO. 64D11	
REVISED -	SCALE: $SCALE$	SHEET NO. OF SHEETS	STA.	TO STA.	FED. ROAD DIST. NO.	ILLINOIS	FED. AID PROJECT		

PLOT DATE = $DATE$

TYPICAL BENCHING ON EXISTING EMBANKMENT



REVISED - 2-22-06

TYPICAL BENCHING ON EXISTING EMBANKMENT 50.4

TREE REPLACEMENT SCHEDULE

CODE NUMBER	SCIENTIFIC NAME	COMMON NAME	SIZE	UNIT	QUANTITY
A2006514	QUERCUS BICOLOR	SWAMP WHITE OAK	1 3/4" CALIPER BALLED AND BURLAPPED	EACH	24

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

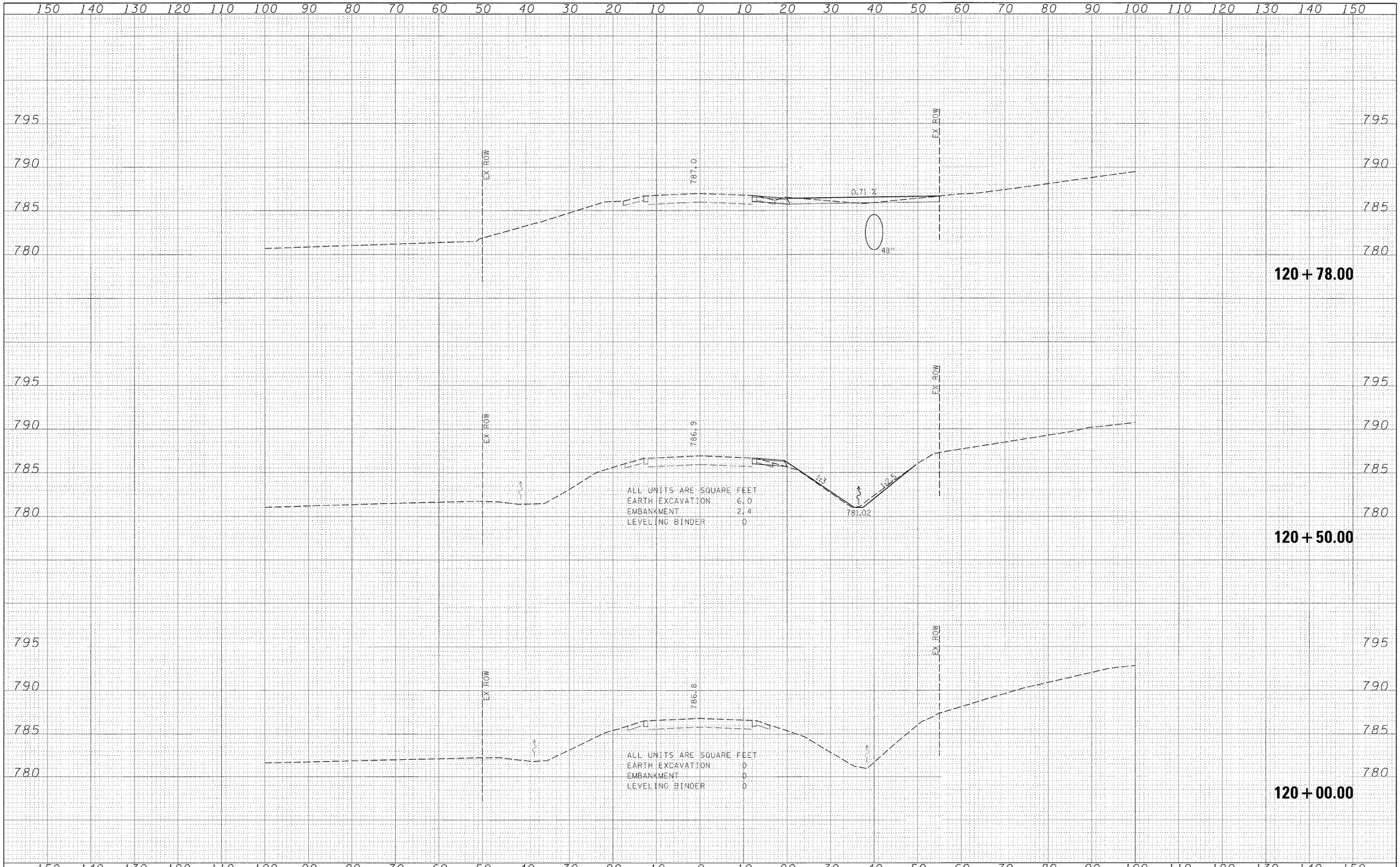
REVISED - 8-10-05

TREE REPLACEMENT SCHEDULE 90.4

REVISED -	**REGION 2 / DISTRICT 2 STANDARD**	F.A.P RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
REVISED -		17	101BR-4	OGLE	60	50
REVISED -				CONTRACT NO. 64D11		
REVISED -	SCALE: #SCALE# SHEET NO. OF SHEETS STA. TO STA.	FED. ROAD DIST. NO.	ILLINOIS	FED. AID PROJECT		

PLOT DATE = #DATE#

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



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

FILE NAME = $FILEL$	USER NAME = $USER$	DESIGNED -	REVISED -
		DRAWN -	REVISED -
	PLOT SCALE = $SCALE$	CHECKED -	REVISED -
	PLOT DATE = $DATE$	DATE -	REVISED -

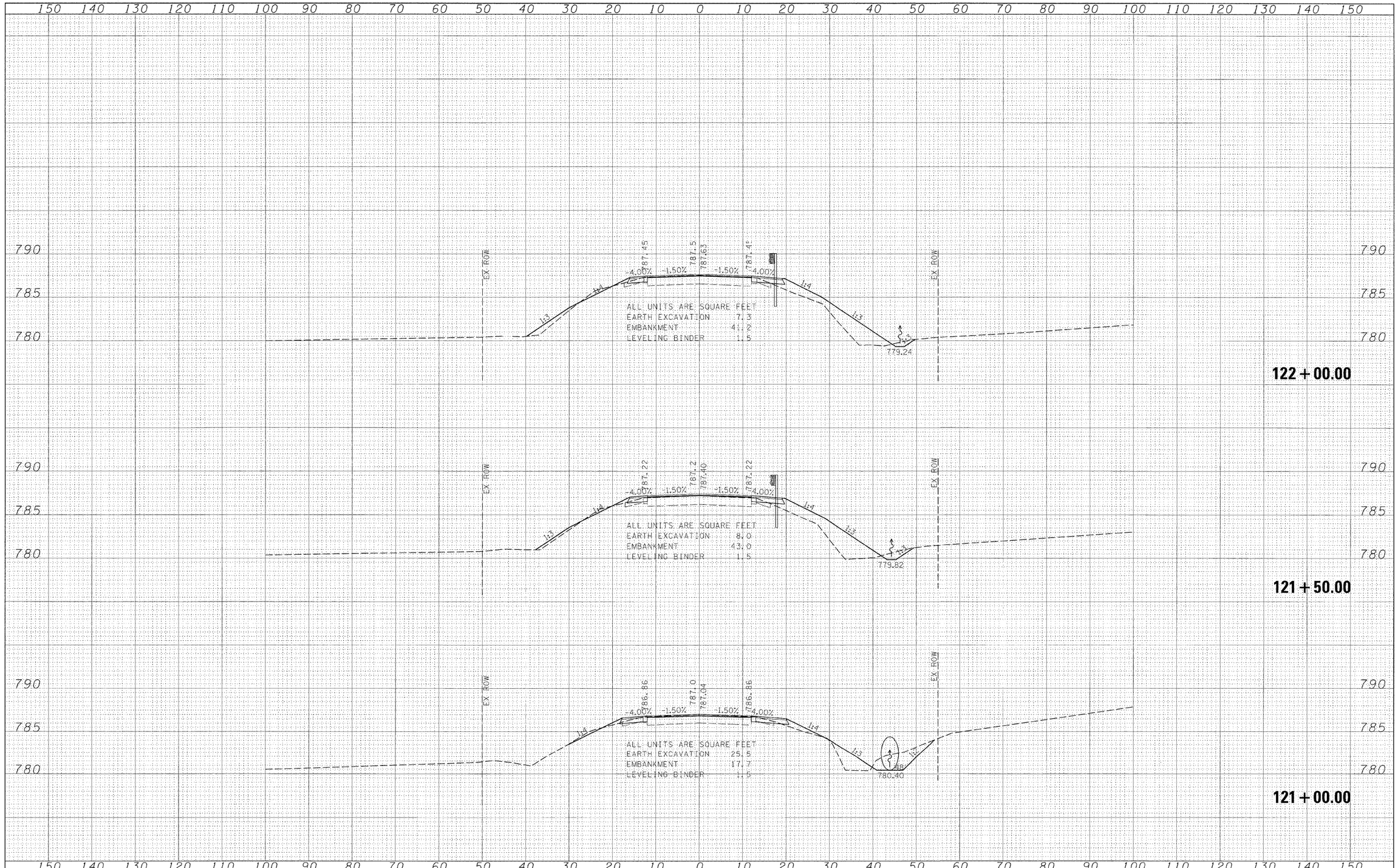
STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

IL RTE 64 CROSS SECTIONS

SCALE: | SHEET NO. OF SHEETS | STA. 120+00.00 TO STA. 120+78.00

F.AP. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
17	101BR-4	OGLE	60	51
		CONTRACT NO. 64D11		
FED. ROAD DIST. NO.	ILLINOIS	FED. AID PROJECT		

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



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

FILE NAME = $FILEL$	USER NAME = $USER$	DESIGNED -	REVISED -
		DRAWN -	REVISED -
	PLOT SCALE = $SCALE$	CHECKED -	REVISED -
	PLOT DATE = $DATE$	DATE -	REVISED -

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

IL RTE 64 CROSS SECTIONS

SCALE: | SHEET NO. OF SHEETS | STA. 121+00.00 TO STA. 122+00.00

F.AP. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
17	101BR-4	OGLE	60	52
		CONTRACT NO. 64D11		
FED. ROAD DIST. NO.	ILLINOIS	FED. AID PROJECT		

150 140 130 120 110 100 90 80 70 60 50 40 30 20 10 0 10 20 30 40 50 60 70 80 90 100 110 120 130 140 150

790 785 780 775

TEMPORARY EASEMENT
EX ROW
1:3
1:4
-4.00%
-1.50%
-1.50%
-4.00%
789.03
789.1
789.21
789.03
ALL UNITS ARE SQUARE FEET
EARTH EXCAVATION 6.5
EMBANKMENT 89.8
LEVELING BINDER 1.5
1:2.5
777.50
EX ROW

123+50.00

TEMPORARY EASEMENT
EX ROW
1:3
1:4
-4.00%
-1.50%
-1.50%
-4.00%
788.35
788.4
788.53
788.35
ALL UNITS ARE SQUARE FEET
EARTH EXCAVATION 8.0
EMBANKMENT 75.6
LEVELING BINDER 1.5
1:3
778.08
EX ROW

123+00.00

EX ROW
1:3
1:4
-4.00%
-1.50%
-1.50%
-4.00%
787.83
788.0
788.01
787.83
ALL UNITS ARE SQUARE FEET
EARTH EXCAVATION 6.9
EMBANKMENT 56.5
LEVELING BINDER 1.5
1:3
778.66
EX ROW

122+50.00

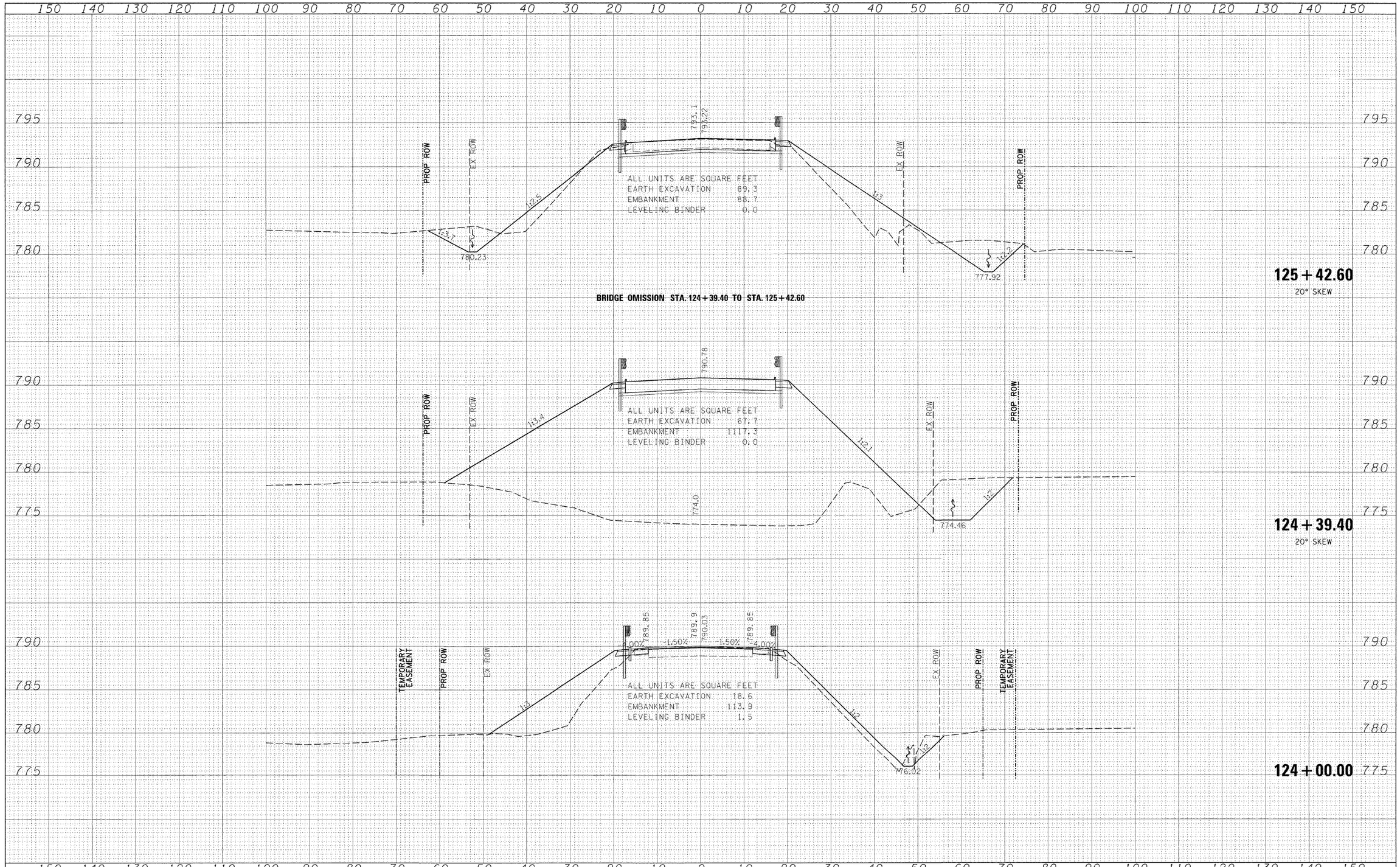
150 140 130 120 110 100 90 80 70 60 50 40 30 20 10 0 10 20 30 40 50 60 70 80 90 100 110 120 130 140 150

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

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

FILE NAME = $FILEL$	USER NAME = $USER$	DESIGNED -	REVISED -	STATE OF ILLINOIS DEPARTMENT OF TRANSPORTATION	IL RTE 64 CROSS SECTIONS
		DRAWN	REVISED -		
	PLOT SCALE = $SCALE$	CHECKED -	REVISED -		SCALE: SHEET NO. OF SHEETS STA. 122+50.00 TO STA. 123+50.00
	PLOT DATE = $DATE$	DATE -	REVISED -		

F.AP. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
17	101BR-4	OGLE	60	53
		CONTRACT NO. 64D11		
FED. ROAD DIST. NO.	ILLINOIS	FED. AID PROJECT		



FILE NAME = $FILE1$	USER NAME = USR	DESIGNED -	REVISED -
		DRAWN -	REVISED -
	PLOT SCALE = $SCALE$	CHECKED -	REVISED -
	PLOT DATE = $DATE$	DATE -	REVISED -

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

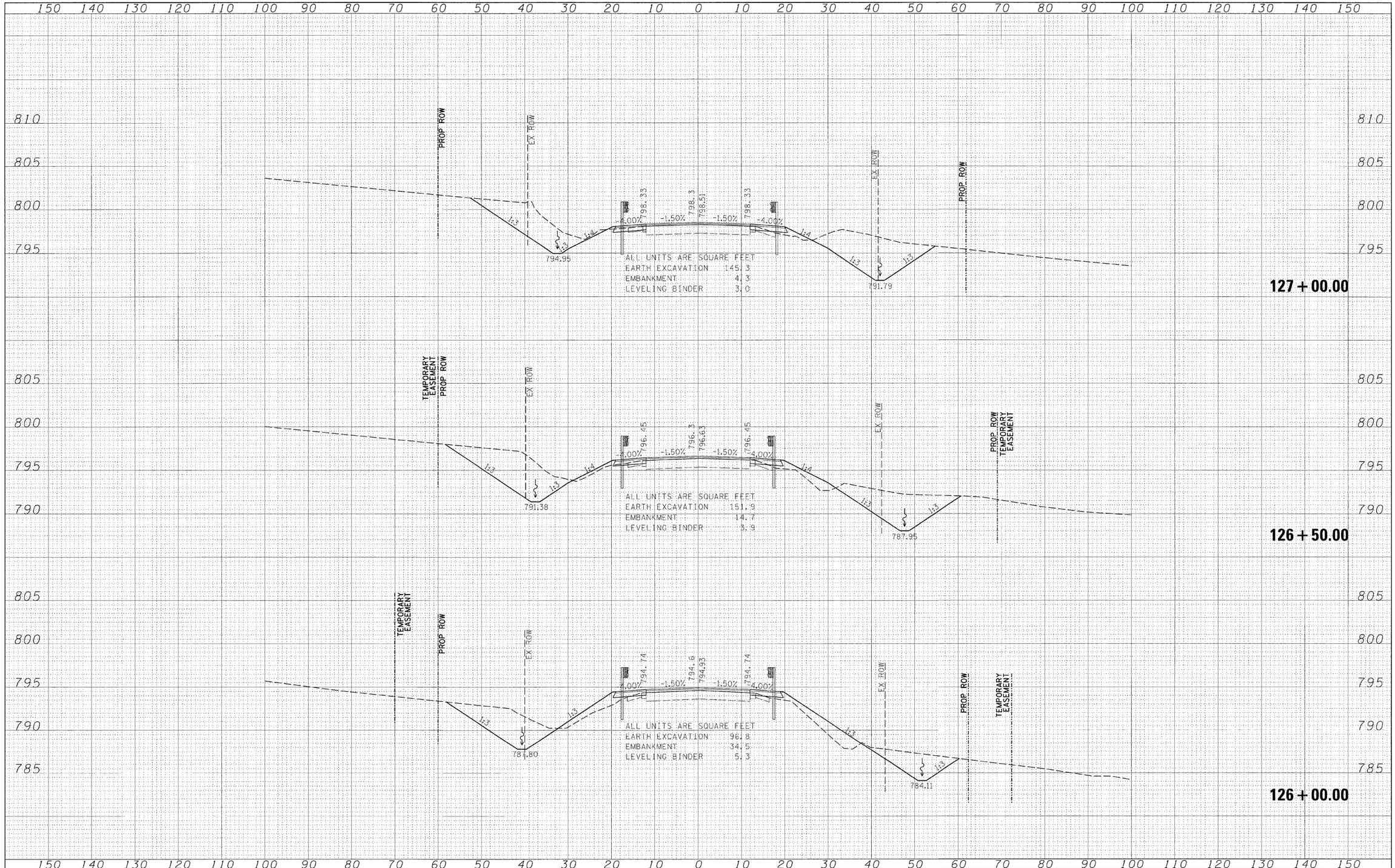
IL RTE 64 CROSS SECTIONS

SCALE: | SHEET NO. OF SHEETS | STA. 124+00.00 TO STA. 125+42.33

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
17	101BR-4	OGLE	60	54
		CONTRACT NO. 64D11		
FED. ROAD DIST. NO.	ILLINOIS	FED. AID PROJECT		

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

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



FINAL SURVEY — NOTE BOOK

	BY	DATE
SURVEYED		
PLOTTED		
TYPING DATE		
AREAS		
AREAS CHECKED		
NO.		

ORIGINAL SURVEY — NOTE BOOK

	BY	DATE
SURVEYED		
PLOTTED		
TYPING DATE		
AREAS		
AREAS CHECKED		
NO.		

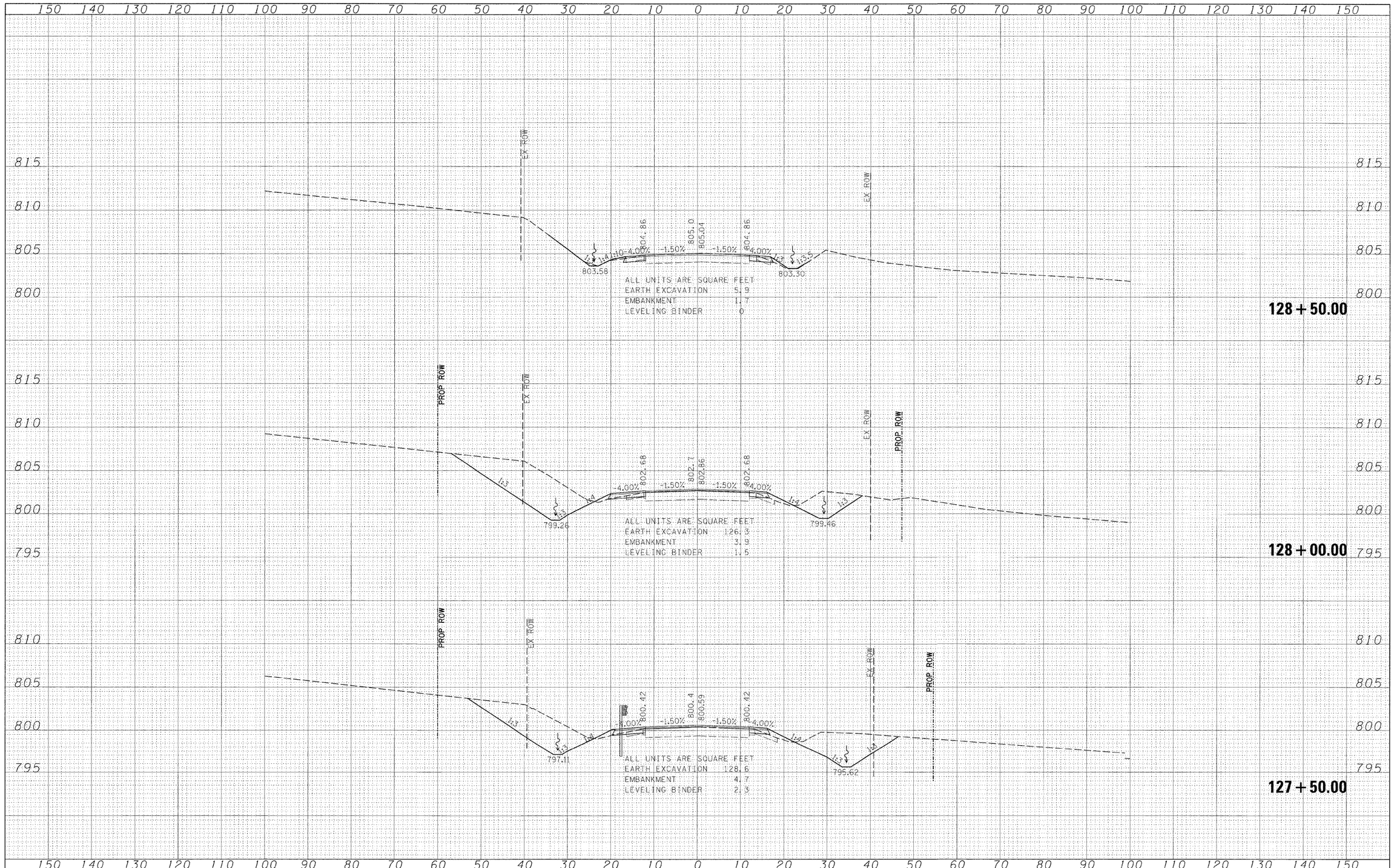
FILE NAME = $FILEL$	USER NAME = $USER$	DESIGNED -	REVISED -
		DRAWN -	REVISED -
	PLOT SCALE = $SCALE$	CHECKED -	REVISED -
	PLOT DATE = $DATE$	DATE -	REVISED -

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

IL RTE 64 CROSS SECTIONS

SCALE: | SHEET NO. OF SHEETS | STA. 126+00.00 TO STA. 127+00.00

F.AP. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
17	101BR-4	OGLE	60	55
		CONTRACT NO. 64D11		
FED. ROAD DIST. NO.	ILLINOIS	FED. AID PROJECT		



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

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

FILE NAME = $FILEL$	USER NAME = $USER$	DESIGNED -	REVISED -
		DRAWN -	REVISED -
	PLOT SCALE = $SCALE$	CHECKED -	REVISED -
	PLOT DATE = $DATE$	DATE -	REVISED -

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

IL RTE 64 CROSS SECTIONS

SCALE: | SHEET NO. OF SHEETS | STA. 127+50.00 TO STA. 128+50.00

F.AP. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
17	101BR-4	OGLE	60	56
		CONTRACT NO. 64D11		
FED. ROAD DIST. NO.	ILLINOIS	FED. AID PROJECT		

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

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

150 140 130 120 110 100 90 80 70 60 50 40 30 20 10 0 10 20 30 40 50 60 70 80 90 100 110 120 130 140 150

820
815
810
805

EX ROW

807.5

EX ROW

ALL UNITS ARE SQUARE FEET

EARTH EXCAVATION	0
EMBANKMENT	0
LEVELING BINDER	0

129 + 00.00

FILE NAME = $FILEL$	USER NAME = $USER$	DESIGNED -	REVISED -
		DRAWN -	REVISED -
	PLOT SCALE = $SCALE$	CHECKED -	REVISED -
	PLOT DATE = $DATE$	DATE -	REVISED -

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

IL RTE 64 CROSS SECTIONS

SCALE: | SHEET NO. OF SHEETS | STA. 129+00.00 TO STA. 129+00.00

F.AP. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
17	101BR-4	OGLE	60	57
		CONTRACT NO. 64D11		
FED. ROAD DIST. NO.	ILLINOIS	FED. AID PROJECT		

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

12+20.00

ALL UNITS ARE SQUARE FEET
CHANNEL EXCAVATION 25.4
EMBANKMENT 80.7
STRUCTURE REMOVAL 0.0
STRUCTURE EXCAVATION 0.0

12+00.00

ALL UNITS ARE SQUARE FEET
CHANNEL EXCAVATION 231.9
EMBANKMENT 52.4
STRUCTURE REMOVAL 0.0
STRUCTURE EXCAVATION 0.0

11+80.00

ALL UNITS ARE SQUARE FEET
CHANNEL EXCAVATION 201.7
EMBANKMENT 18.6
STRUCTURE REMOVAL 0.0
STRUCTURE EXCAVATION 0.0

11+60.00

ALL UNITS ARE SQUARE FEET
CHANNEL EXCAVATION 140.5
EMBANKMENT 0.1
STRUCTURE REMOVAL 0.0
STRUCTURE EXCAVATION 0.0

11+40.00

ALL UNITS ARE SQUARE FEET
CHANNEL EXCAVATION 61.8
EMBANKMENT 0.0
STRUCTURE REMOVAL 0.0
STRUCTURE EXCAVATION 0.0

11+20.00

ALL UNITS ARE SQUARE FEET
CHANNEL EXCAVATION 32.9
EMBANKMENT 0.2
STRUCTURE REMOVAL 0.0
STRUCTURE EXCAVATION 0.0

11+00.00

ALL UNITS ARE SQUARE FEET
CHANNEL EXCAVATION 19.4
EMBANKMENT 0.0
STRUCTURE REMOVAL 0.0
STRUCTURE EXCAVATION 0.0

10+80.00

ALL UNITS ARE SQUARE FEET
CHANNEL EXCAVATION 0.0
EMBANKMENT 0.0
STRUCTURE REMOVAL 0.0
STRUCTURE EXCAVATION 0.0

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

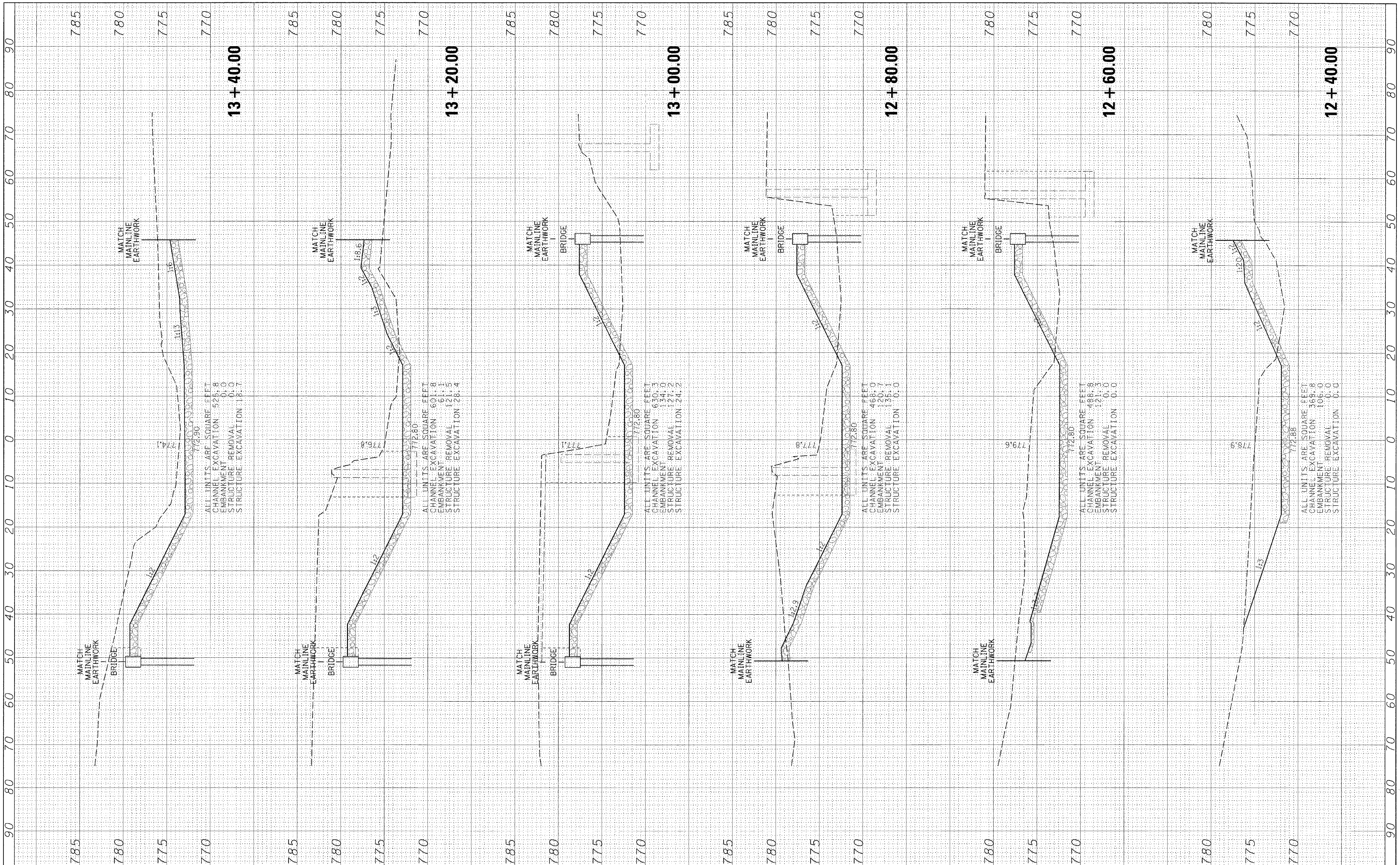
FILE NAME = #FILE1#	USER NAME = #USER#	DESIGNED -	REVISED -
		CHECKED -	REVISED -
	PLOT SCALE = #SCALE#	DRAWN -	REVISED -
	PLOT DATE = #DATE#	CHECKED -	REVISED -

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

FIVE MILE CREEK

SCALE: | SHEET NO. OF SHEETS | STA. 10+80.00 TO STA. 12+20.00

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
17	101BR-4	OGLE	60	58
		CONTRACT NO. 64D11		
FED. ROAD DIST. NO.	ILLINOIS	FED. AID PROJECT		



FILE NAME = $FILEL$	USER NAME = $USER$	DESIGNED -	REVISED -	STATE OF ILLINOIS DEPARTMENT OF TRANSPORTATION	FIVE MILE CREEK
		CHECKED -	REVISED -		
	PLOT SCALE = $SCALE$	DRAWN -	REVISED -		
	PLOT DATE = $DATE$	CHECKED -	REVISED -		SCALE: SHEET NO. OF SHEETS STA. 12+40.00 TO STA. 13+40.00

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
17	101BR-4	OGLE	60	59
		CONTRACT NO. 64D11		
FED. ROAD DIST. NO.	ILLINOIS	FED. AID PROJECT		

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

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

14 + 40.00

ALL UNITS ARE SQUARE FEET
CHANNEL EXCAVATION 0.0
EMBANKMENT 0.0
STRUCTURE REMOVAL 0.0
STRUCTURE EXCAVATION 0.0

14 + 20.00

ALL UNITS ARE SQUARE FEET
CHANNEL EXCAVATION 28.5
EMBANKMENT 0.0
STRUCTURE REMOVAL 0.0
STRUCTURE EXCAVATION 0.0

MATCH MAINLINE EARTHWORK

14 + 00.00

ALL UNITS ARE SQUARE FEET
CHANNEL EXCAVATION 135.2
EMBANKMENT 0.0
STRUCTURE REMOVAL 0.0
STRUCTURE EXCAVATION 0.0

13 + 80.00

ALL UNITS ARE SQUARE FEET
CHANNEL EXCAVATION 182.9
EMBANKMENT 4.2
STRUCTURE REMOVAL 0.0
STRUCTURE EXCAVATION 0.0

MATCH MAINLINE EARTHWORK

13 + 60.00

ALL UNITS ARE SQUARE FEET
CHANNEL EXCAVATION 316.1
EMBANKMENT 0.0
STRUCTURE REMOVAL 0.0
STRUCTURE EXCAVATION 25.3

MATCH MAINLINE EARTHWORK TO BRIDGE

FILE NAME = $FILEL$	USER NAME = $USER$	DESIGNED -	REVISED -
		CHECKED -	REVISED -
	PLOT SCALE = $SCALE$	DRAWN -	REVISED -
	PLOT DATE = $DATE$	CHECKED -	REVISED -

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

FIVE MILE CREEK

SCALE: | SHEET NO. OF SHEETS | STA. 13+60.00 TO STA. 14+40.00

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
17	101BR-4	OGLE	60	60
		CONTRACT NO. 64D11		
FED. ROAD DIST. NO.	ILLINOIS	FED. AID PROJECT		