

F.A.S. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
203	11BR-1	*	43	1
* WHITESIDE & ROCK ISLAND			+1	
			44	

PROJECT ENGINEER  
BECKY MARRUFFO

SQUAD LEADER  
THOMAS HALLA 815-284-5993

JAMES K. CLINARD  
CHAMLIN & ASSOCIATES  
815.223.3344

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HIGHWAY STANDARDS

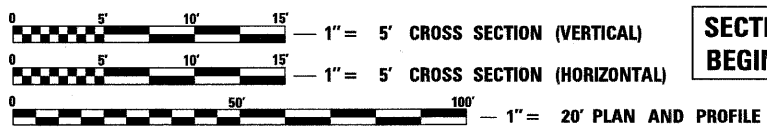
- 000001-05 STANDARD SYMBOLS, ABBREVIATIONS AND PATTERNS
- 001001-01 AREA OF REINFORCEMENT BARS
- 280001-04 TEMPORARY EROSION CONTROL SYSTEMS
- 420001-07 PAVEMENT JOINTS
- 420401-06 BRIDGE APPROACH PAVEMENT
- 421001-02 BAR REINFORCEMENT FOR CRC PAVEMENT
- 515001-02 NAME PLATE FOR BRIDGES
- 542401 METAL END SECTION FOR PIPE CULVERTS
- 601101 CONCRETE HEADWALL FOR PIPE DRAINS
- 630001-07 STEEL PLATE BEAM GUARDRAIL
- 630301-04 SHOULDER WIDENING FOR TYPE 1 (SPECIAL) GUARDRAIL TERMINALS
- 631031-06 TRAFFIC BARRIER TERMINAL, TYPE 6
- 635001 DELINEATORS
- 635006-02 REFLECTOR AND TERMINAL MARKER PLACEMENT
- 635011-01 REFLECTOR MARKER AND MOUNTING DETAILS
- 667101 PERMANENT SURVEY MARKERS
- 701311-02 LANE CLOSURE, 2L, 2W, MOVING OPERATIONS-DAY ONLY
- 701901 TRAFFIC CONTROL DEVICES
- 720011 METAL POSTS FOR SIGNS, MARKERS AND DELINEATORS
- 728001 TELESCOPING STEEL SIGN SUPPORT
- 729001 APPLICATIONS OF TYPES A & B METAL POSTS (FOR SIGNS & MARKERS)
- 780001-01 TYPICAL PAVEMENT MARKINGS

TRAFFIC DATA

HIGHWAY CLASSIFICATION: MAJOR COLLECTOR  
 2008 ADT = 3100  
 DESIGN SPEED 55 MPH  
 POSTED SPEED 55 MPH

**SECTION 115BR-1**  
**INCLUDES THE REMOVAL OF EXISTING**  
**STRUCTURE NO. 098-0003 AND**  
**CONSTRUCTION OF THE NEW**  
**STRUCTURE 098-0111, A THREE SPAN**  
**STRUCTURE OVER MEREDOSIA DITCH**  
**AT STA 428+20.80**  
**101'-10 3/4" BACK TO**  
**BACK OF ABUTMENT**

**SECTION & IMPROVEMENT**  
**BEGINS STA. 423+75**



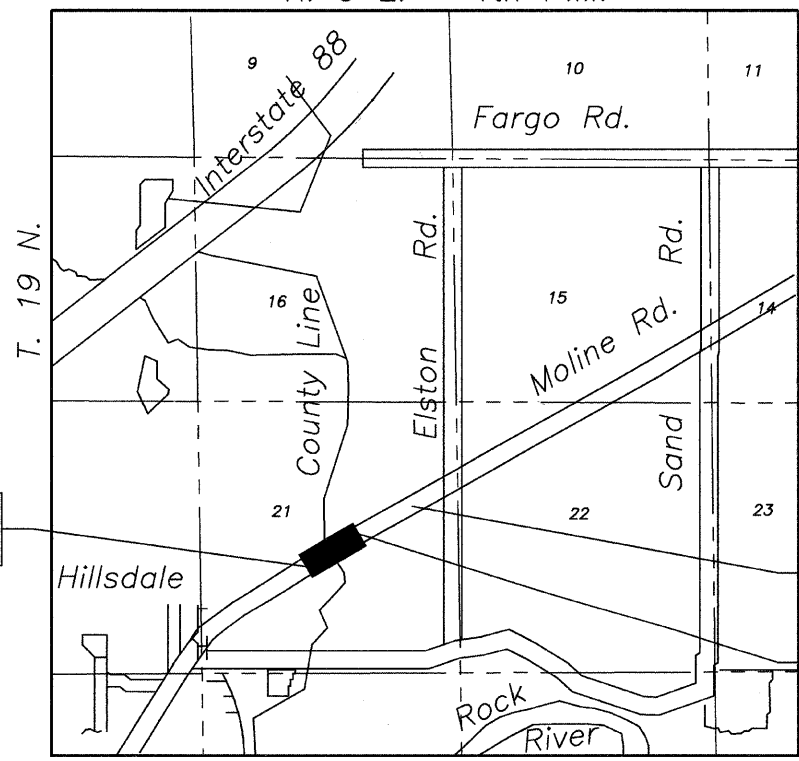
FULL SIZE PLANS HAVE BEEN PREPARED USING STANDARD ENGINEERING SCALES. REDUCED SIZED PLANS WILL NOT CONFORM TO STANDARD SCALES. IN MAKING MEASUREMENTS ON REDUCED PLANS, THE ABOVE SCALES MAY BE USED.

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

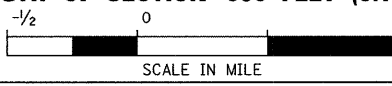
CONTRACT NO. 64939

STATE OF ILLINOIS  
 DEPARTMENT OF TRANSPORTATION  
 DIVISION OF HIGHWAYS  
**PLANS FOR PROPOSED**  
**FEDERAL AID HIGHWAY**  
**FAS ROUTE 203 (MOLINE ROAD)**  
**SECTION 11BR-1**  
**OVER MEREDOSIA DITCH**  
**WHITESIDE AND ROCK ISLAND COUNTIES**  
**PROJECT NO. ACBRS-0203(106)**

**C-92-088-06**  
 R. 3 E. 4th P.M.



NET LENGTH OF SECTION 850 FEET (0.16 MILES)  
 GROSS LENGTH OF SECTION 850 FEET (0.16 MILES)



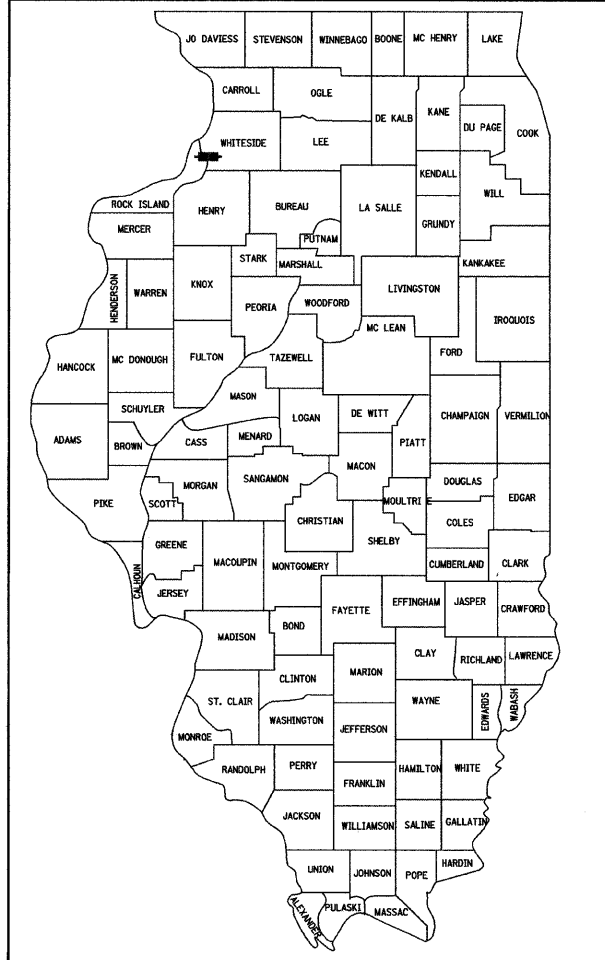
IMPROVEMENT ENDS  
 STA. 435 + 35

SECTION ENDS  
 STA. 432 + 25



signature  
 PROFESSIONAL DESIGN FIRM  
 LICENSE NO. 184-001717

D-92-090-03



LOCATION OF SECTION INDICATED THUS: [black rectangle]

STATE OF ILLINOIS  
 DEPARTMENT OF TRANSPORTATION  
 DIVISION OF HIGHWAYS

SUBMITTED Oct 10 20 07

George F. Ryan  
 DEPUTY DIRECTOR OF HIGHWAYS, REGION ENGINEER

February 1, 20 08  
Eric E. Harman  
 INTERIM ENGINEER OF DESIGN AND ENVIRONMENT

February 1, 20 08  
Christine M. Reed  
 DIRECTOR OF HIGHWAYS, CHIEF ENGINEER

DISTRICT 2 DIXON IL  
**PRINTED BY THE AUTHORITY**  
**OF THE STATE OF ILLINOIS**

CHAMLIN & ASSOCIATES  
 PERU ILLINOIS MORRIS

F.A.S. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
203	11BR-1	*	43	2

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

\* WHITESIDE & ROCK ISLAND

GENERAL NOTES

- 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 FOUR INCHES OF SOIL IN ANY RIGHT-OF-WAY AREA DISTURBED BY THE CONTRACTOR MUST BE CAPABLE OF SUPPORTING VEGETATION. THE SOIL MUST BE FROM THE A HORIZON (ZERO TO 2' DEEP) OF SOIL PROFILES OF LOCAL SOILS.
- IT IS ESTIMATED THAT 914 CUBIC YARDS OF EARTH WILL BE HAULED TO THE JOB FROM OUTSIDE THE PROJECT LIMITS. A SHRINKAGE FACTOR OF 25% HAS BEEN USED.
- THE CONTRACTOR SHALL SEED ALL DISTURBED AREAS WITHIN THE PROJECT LIMITS. SEEDING CLASS 2A SALT TOLERANT ROAD MIXTURE SHALL BE USED, EXCEPT IN FRONT OF PROPERTIES WHERE THE GRASS WILL BE MOWED, THEN USE SEEDING, CLASS 1 LAWN MIXTURE. THIS WORK WILL BE INCLUDED IN THE CONTRACT UNIT PRICE PER CUBIC YARD FOR EARTH EXCAVATION.
- FERTILIZER SHALL BE APPLIED TO ALL DISTURBED AREAS AND INCORPORATED INTO THE SEEDBED PRIOR TO SEEDING OR PLACEMENT OF SOD AT THE RATE SPECIFIED IN SECTIONS 250 AND 252 OF THE STANDARD SPECIFICATIONS. THIS WORK SHALL BE INCLUDED IN THE COST OF EARTH EXCAVATION.
- MULCH METHOD 2 SHALL BE APPLIED OVER ALL SEEDING AREAS. THIS SHALL BE INCLUDED IN THE COST OF THE EARTH EXCAVATION.
- 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.
- THE SUBGRADE ON THIS PROJECT, EXCLUSIVE OF ROCK CUT AREA IS SCHEDULED TO BE IMPROVED TO A 12" DEPTH ACCORDING TO MECHANISTIC PAVEMENT DESIGN. THE AREAS SCHEDULED TO BE IMPROVED TO A DEPTH GREATER THAN 12" ARE ESTIMATED BASED ON THE ORIGINAL GEOTECHNICAL INVESTIGATION. THE SUBGRADE SHALL BE PROCESSED IN ACCORDANCE WITH ARTICLE 301.03 OF THE STANDARD SPECIFICATIONS BEFORE THE ENGINEER SHALL DETERMINE THE LIMITS AND THE ADDITIONAL THICKNESS OF IMPROVEMENT REQUIRED, IF ANY. ANY ADDITIONAL UNDERCUTTING REQUIRED AFTER THIS EVALUATION SHALL BE PAID FOR AS EARTH EXCAVATION.
- 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.
- BITUMINOUS AND AGGREGATE PRIME COAT SHALL BE PLACED IN ACCORDANCE WITH SECTION 406 OF THE STANDARD SPECIFICATIONS. ON MOLINE ROAD, COST OF THE PRIME COATS SHALL BE INCLUDED IN THE CONTRACT UNIT PRICE PER TON FOR LEVELING BINDER (MACHINE METHOD) OF THE TYPE SPECIFIED. ON OTHER ROUTES, PRIME COATS SHALL BE PAID AS SHOWN IN THE SCHEDULE.
- EXCEPT FOR THE TOP 75 MM (3"), ALL AGGREGATE BASES AND SUBBASES 300 MM (12") IN THICKNESS SHALL BE CONSTRUCTED OF AGGREGATE GRADATION CA-2. IF THE SPECIFIED THICKNESS EXCEEDS 300 MM (12"), THE BASES OR SUBBASES SHALL BE CONSTRUCTED OF TOP SIZE 150 MM (6") BREAKER- RUN CRUSHED STONE WITH 70% TO 90% BY WEIGHT, PASSING THE 4" SIEVE AND 15% TO 40% BY WEIGHT, PASSING THE 50 MM (2" SIZE) SIEVE, EXCEPT FOR THE TOP 75 MM (3"). THE BREAKER- RUN CRUSHED STONE SHALL BE REASONABLY UNIFORMLY GRADED FROM COARSE TO FINE AND BE TAKEN FROM A QUARRY LEDGE CAPABLE OF PRODUCING CLASS "D" QUALITY AGGREGATE. THE TOP 75 MM (3") SHALL BE GRADATION CA-6 OR CA-10 REGARDLESS OF THICKNESS. THE WATER NECESSARY TO ACHIEVE COMPACTION IN ALL BUT THE TOP 75 MM (3") LAYER MAY BE ADDED AFTER THE SUBBASE OR BASE COURSE IS PLACED ON THE GRADE.
- THE FOLLOWING MIXTURE REQUIREMENTS ARE APPLICABLE FOR THIS PROJECT:

	HOT-MIX ASPHALT BINDER	HOT-MIX ASPHALT LEVEL BINDER	HOT-MIX ASPHALT SURFACE
PG GRADE	PG 64-22	PG 64-22	PG 64-22
MAX % RAP ALLOWABLE **	25%	25%	15%
DESIGN AIR	4.0% @ N50	4.0% @ N50	4.0% @ N50
VOIDS			
MIXTURE COMPOSITION	IL 19.0	IL 9.5	IL 12.5 OR IL 9.5
FRICTION			
AGGREGATE			MIXTURE C
PLANT CONTROL LIMITS	CLASS I	CLASS I	CLASS I
DENSITY TEST METHOD	CORES/NUCLEAR	SATISFACTION OF ENGINEER	CORES/NUCLEAR

\* SEE SPECIALS  
 \*\* IF RAP OPTION IS SELECTED, THE ASPHALT CEMENT GRADE MAY NEED TO BE ADJUSTED. THIS WILL BE DETERMINED BY THE ENGINEER.

- THE CONTRACTOR WILL BE REQUIRED TO FURNISH 5 1/2" HIGH BRASS STENCILS AS APPROVED BY THE ENGINEER AND INSTALL STATIONING AT 250' INTERVALS. STATIONING SHALL BE PLACED ON BOTH LANES OF 2-LANE HIGHWAYS AND ON THE OUTSIDE LANES IN BOTH DIRECTIONS ON 4-LANE HIGHWAYS THE STATIONS SHALL BE PLACED 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.
- A NATIONWIDE 404 PERMIT HAS BEEN ISSUED FOR THIS PROJECT AND THE CONDITIONS OF THAT PERMIT MUST BE ADHERED TO.
- THE NEW NUMBER FOR THIS STRUCTURE WILL BE 098-0111.
- 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 ADDITIONAL THICKNESS OF PROPOSED PAVEMENT REQUIRED TO MATCH THE BRIDGE APPROACH PAVEMENT, SHOWN IN STANDARD 420401, SHALL BE INCLUDED IN THE COST OF THE PROPOSED PAVEMENT AND NOT PAID FOR SEPARATELY.
- THE CURB IS REQUIRED ON THE BRIDGE APPROACH PAVEMENT AS SHOWN ON STANDARD 420401.
- CULVERT AND 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.
- THE CONTRACTOR SHALL STRAIGHTEN OR CUT OFF THE ENDS OF EXISTING ENTRANCE CULVERTS THAT WILL HAVE NEW METAL END SECTIONS INSTALLED. THE COST OF THIS WILL BE INCLUDED IN THE CONTRACT UNIT PRICE EACH FOR END SECTIONS OF THE SIZE SPECIFIED.
- 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 I SPECIALS.
- DELINEATORS SHALL BE INSTALLED AS SHOWN IN STANDARD 635001, EXCEPT THAT THE POST SHALL BE ROTATED 180° AND ONLY METAL- BACKED DELINEATORS SHALL BE PERMITTED.
- DELINEATORS SHALL BE PLACED AT THE ENDS OF APPROACH GUARDRAIL TERMINAL SECTIONS, AND AT EACH HEADWALL OR END SECTION OF AR CULVERTS. THIS WORK WILL BE PAID FOR AT THE CONTRACT UNIT PRICE EACH FOR DELINEATORS.
- PERMANENT SURVEY MARKERS, TYPE II, SHALL BE SET AT INTERVALS OF 1MILE 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 HIGHWAY STANDARD 667101.
- THE CONTRACTOR SHALL SUBMIT TO THE ENGINEER A DESCRIPTION OF LOCATION, ELEVATION, AND COORDINATES FOR EACH PERMANENT SURVEY MARKER. THE ENGINEER SHALL SUBMIT THIS INFORMATION TO THE SURVEY CREW.
- WORK ON THIS PROJECT WILL BE IN PROGRESS AT THE SAME TIME AS OTHER PROJECTS
 

WORK ON THESE PROJECTS SHALL BE SCHEDULED TO KEEP INTERFERENCE BETWEEN ALL THE PROJECTS TO A MINIMUM. THE CONTRACTORS SHALL INFORM EACH OTHER OF PROGRESS OF THE PROJECTS AND GIVE FAIR WARNING TO THE OTHER CONTRACTORS WHEN A PROBLEM MIGHT BE ENCOUNTERED. SPECIFICALLY WORK ON HURD ROAD IS ANTICIPATED TO BE ADVERTISED ON THE JANUARY 2008 LETTING. THIS WORK MAY REQUIRE A 3 DAY CLOSURE OF HURD ROAD.
- 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:
 

KINDER-MORGAN ENERGIES PARTNERS	GAS
COMMONWEALTH EDISON COMPANY	ELECTRIC
CITIZENS	TELEPHONE
ALLIANCE PIPELINE COMPANY	PETROLEUM
NORTHERN BORDER PIPELINE COMPANY	PETROLEUM
LIGHTCORE	COMMUNICATIONS

FOLLOWING ARE THE KNOWN UTILITIES LOCATED WITHIN THE PROJECT LIMITS OR IMMEDIATELY ADJACENT TO THE PROJECT CONSTRUCTION LIMITS WHICH ARE NOT MEMBERS OF JULIE AND SHOULD BE NOTIFIED INDIVIDUALLY BY THE CONTRACTOR:

IDOT-DISTRICT 2 819 DEPOT AVENUE DIXON, IL 61021	GOVERNMENT (815) 284-5469
--	------------------------------
- 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.

COMMITMENTS

- THERE ARE THREE JURISDICTIONAL WETLANDS LOCATED WITHIN THE PROJECT AREA AND TO THE WEST OF THE BRIDGE. THESE WETLANDS ARE BEYOND THE CONSTRUCTION LIMITS AND WILL NOT BE IMPACTED BY PROJECT CONSTRUCTION.
- THESE WETLANDS ARE SHOWN ON THE PLAN SHEET IN THE DESIGN REPORT AND WILL BE SHOWN ON THE CONTRACT PLANS.
- TWO WEEKS PRIOR TO CLOSING MOLINE ROAD FOR THE STATE ROUTE DETOUR, THE RESIDENT ENGINEER SHALL NOTIFY THE CHIEF OF ERIE FIRE PROTECTION DISTRICT AT 309/659-2014 OF THE UPCOMING ROAD CLOSURE.
- TWO WEEKS PRIOR TO CLOSING MOLINE ROAD FOR THE STATE ROUTE DETOUR, THE RESIDENT ENGINEER SHALL NOTIFY THE MS. JANE KEAG, DIRECTOR OF THE ERIE AMBULANCE SERVICE, OF THE UPCOMING ROAD CLOSURE. SHE CAN BE CONTACTED AT THE FOLLOWING TELEPHONE NUMBERS:
  - 309/659-2568 (HOME)
  - 309/659-2239 (EXT. 2525)
  - 309/659-7795 (AMBULANCE OFFICE - NOT STAFFED)

PLOT DATE = 10/07  
 FILE NAME = ZP98030NOTES  
 PLOT SCALE = NONE  
 USER NAME = CHHS

REVISIONS		ILLINOIS DEPARTMENT OF TRANSPORTATION
NAME	DATE	
		GENERAL NOTES FAS 203 (MOLINE ROAD) SECTION 11BR-1 WHITESIDE & ROCK ISLAND COUNTIES  SCALE: VERT. HORIZ. DATE 11/05

DRAWN BY ARR  
 CHECKED BY JKC

Item No.	Item	Unit	80% FED / 20% STATE	ROCK ISLAND COUNTY	WHITESIDE COUNTY	WHITESIDE COUNTY
			Total	1000	1000	X020-2A
			QUANTITY	ROADWAY	ROADWAY	BRIDGE
20100110	TREE REMOVAL (6 TO 15 UNITS DIAMETER)	UNIT	6	--	6	--
20200100	EARTH EXCAVATION	CU YD	51	19	32	--
20300100	CHANNEL EXCAVATION	CU YD	26	--	26	--
20400800	FURNISHED EXCAVATION	CU YD	914	278	636	--
20700400	POROUS GRANULAR EMBANKMENT, SPECIAL	CU YD	66	--	--	66
25000750	MOWING	ACRE	0.9	0.4	0.5	--
28000250	TEMPORARY EROSION CONTROL SEEDING	POUND	145	65	80	--
28000300	TEMPORARY DITCH CHECKS	EACH	1	1	--	--
28000400	PERIMETER EROSION BARRIER	FOOT	1000	525	475	--
28000500	INLET AND PIPE PROTECTION	EACH	1	--	1	--
28100107	STONE RIPRAP, CLASS A4	SQ YD	438	--	--	438
28200200	FILTER FABRIC	SQ YD	438	--	--	438
31100100	SUB-BASE GRANULAR MATERIAL, TYPE A	TON	460	263	197	--
35101400	AGGREGATE BASE COURSE, TYPE B	TON	86	22	64	--
40600200	BITUMINOUS MATERIALS (PRIME COAT)	TON	2.5	--	2.5	--
40600525	LEVELING BINDER (HAND METHOD), N50	TON	3	1.5	1.5	--
40600625	LEVELING BINDER (MACHINE METHOD), N50	TON	173	94	79	--
40603310	HOT-MIX ASPHALT SURFACE COURSE, MIX 'C', N50	TON	246	75	171	--
40701871	HOT-MIX ASPHALT PAVEMENT (FULL-DEPTH), 9 1/2"	SQ YD	692	391	301	--
42001165	BRIDGE APPROACH PAVEMENT	SQ YD	222	111	111	--
44000198	HOT-MIX ASPHALT SURFACE REMOVAL, VARIABLE DEPTH	SQ YD	627	280	347	--
44000700	APPROACH SLAB REMOVAL	SQ YD	114	57	57	--
44004300	PAVEMENT BREAKING	SQ YD	905	498	407	--
44300200	STRIP REFLECTIVE CRACK CONTROL TREATMENT	FOOT	900	461	439	--
48101200	AGGREGATE SHOULDERS, TYPE B	TON	547	218	329	--
50100100	REMOVAL OF EXISTING STRUCTURES	EACH	1	--	--	1
50200100	STRUCTURE EXCAVATION	CU YD	110	--	--	110
50300100	FLOOR DRAINS	EACH	12	--	--	12
50300225	CONCRETE STRUCTURES	CU YD	118.0	--	--	118.0
50300255	CONCRETE SUPERSTRUCTURE	CU YD	228.8	--	--	228.8
50300260	BRIDGE DECK GROOVING	SQ YD	336	--	--	336
50300300	PROTECTIVE COAT	SQ YD	673	111	111	451
50800205	REINFORCEMENT BARS, EPOXY COATED	POUND	47660	--	--	47660
51201300	FURNISHING STEEL PILES HP8X36	FOOT	551	--	--	551
51201600	FURNISHING STEEL PILES HP12X53	FOOT	537	--	--	537

F.A.S. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
203	11BR-1	*	43	3
STA.		TO STA.		
FED. ROAD DIST. NO. -		ILLINOIS	FED. AID PROJECT	

\* WHITESIDE & ROCK ISLAND

REVISIONS	
NAME	DATE

ILLINOIS DEPARTMENT OF TRANSPORTATION  
 SUMMARY OF QUANTITIES  
 FAS 203 (MOLINE ROAD)  
 SECTION 11BR-1  
 WHITESIDE & ROCK ISLAND COUNTIES

SCALE: VERT.      DRAWN BY ARR  
 HORIZ.              CHECKED BY JKC  
 DATE 12/05

■ 100% STATE

F.A.S. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
203	11BR-1	*	43	4
STA.		TO STA.		
FED. ROAD DIST. NO. - ILLINOIS FED. AID PROJECT				
* WHITESIDE & ROCK ISLAND				

Item No.	Item	Unit	80% FED / 20% STATE	ROCK ISLAND COUNTY	WHITESIDE COUNTY	WHITESIDE COUNTY
			Total	I000	I000	X020-2A
			QUANTITY	ROADWAY	ROADWAY	BRIDGE
51202305	DRIVING PILES	FOOT	1088	--	--	1088
51203300	TEST PILE STEEL HP8X36	EACH	1	--	--	1
51203600	TEST PILE STEEL HP12X53	EACH	1	--	--	1
51204650	PILE SHOES	EACH	24	--	--	24
51500100	NAME PLATES	EACH	1	--	--	1
542D0220	PIPE CULVERTS, CLASS D, TYPE 1 15'	FOOT	144	--	144	--
54213450	END SECTIONS 15'	EACH	3	--	3	--
59100100	GEOCOMPOSITE WALL DRAIN	SQ YD	36	--	--	36
60109580	PIPE UNDERDRAINS FOR STRUCTURES 4'	FOOT	101	--	--	101
60801015	FLAP GATE 15'	EACH	1	--	1	--
* 63000000	STEEL PLATE BEAM GUARD RAIL, TYPE A	FOOT	375	162.5	212.5	--
* 63000130	STEEL PLATE BEAM GUARD RAIL, TYPE A (SPECIAL)	FOOT	25	25	--	--
* 63100045	TRAFFIC BARRIER TERMINAL TYPE 2	EACH	1	1	--	--
* 63100085	TRAFFIC BARRIER TERMINAL TYPE 6	EACH	4	2	2	--
* 63100167	TRAFFIC BARRIER TERMINAL, TYPE 1 (SPECIAL) TANGENT	EACH	2	1	1	--
* 63100169	TRAFFIC BARRIER TERMINAL, TYPE 1 (SPECIAL) FLARED	EACH	1	--	1	--
63200310	GUARDRAIL REMOVAL	FOOT	241	127	114	--
63500105	DELINEATORS	EACH	3	1	2	--
66700305	PERMANENT SURVEY MARKERS, TYPE II	EACH	2	2	--	--
67000400	ENGINEER'S FIELD OFFICE, TYPE A	CAL MD	6	3	3	--
67100100	MOBILIZATION	L SUM	1	0.5	0.5	--
* 78001110	PAINT PAVEMENT MARKING - LINE 4'	FOOT	3820	1910	1910	--
78200410	GUARDRAIL MARKERS, TYPE A	EACH	8	3	5	--
78200520	BARRIER WALL MARKERS, TYPE B	EACH	4	2	2	--
78201000	TERMINAL MARKER-DIRECT APPLIED	EACH	3	1	2	--
* A2007814	TREE, TILIA AMERICANA (AMERICAN LINDEN/ BASSWOOD), 1-3/4' CALIPER, BALLED AND BURLAPPED	EACH	6	--	6	--
X0325519	DRAIN FOR AGGREGATE BASE COURSE	SQ YD	14	6	8	--
X5020501	UNDERWATER STRUCTURE EXCAVATION PROTECTION - LOCATION 1	EACH	1	--	--	1
X5020502	UNDERWATER STRUCTURE EXCAVATION PROTECTION - LOCATION 2	EACH	1	--	--	1
X7013015	TRAFFIC CONTROL FOR ROAD CLOSURE	L SUM	1	0.5	0.5	--
50800515	BAR SPLICERS	EACH	66	--	--	66
Z0013798	CONSTRUCTION LAYOUT	L SUM	1	0.5	0.5	--
Z0028415	GEO TECHNICAL REINFORCEMENT	SQ YD	772	436	336	--
Z0048665	RAILROAD PROTECTIVE LIABILITY INSURANCE	L SUM	1	0.5	0.5	--

\* SPECIALTY ITEM

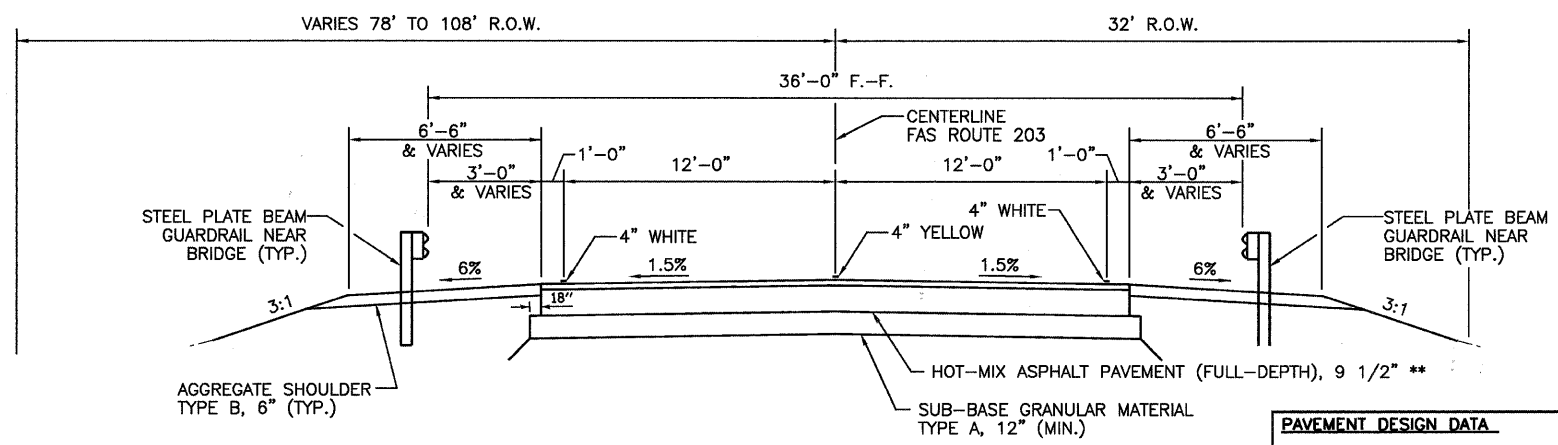
REVISIONS	
NAME	DATE

ILLINOIS DEPARTMENT OF TRANSPORTATION  
 SUMMARY OF QUANTITIES  
 FAS 203 (MOLINE ROAD)  
 SECTION 11BR-1  
 WHITESIDE & ROCK ISLAND COUNTIES

SCALE: VERT.      DRAWN BY ARR  
 HORIZ.              CHECKED BY JKC  
 DATE 12/05

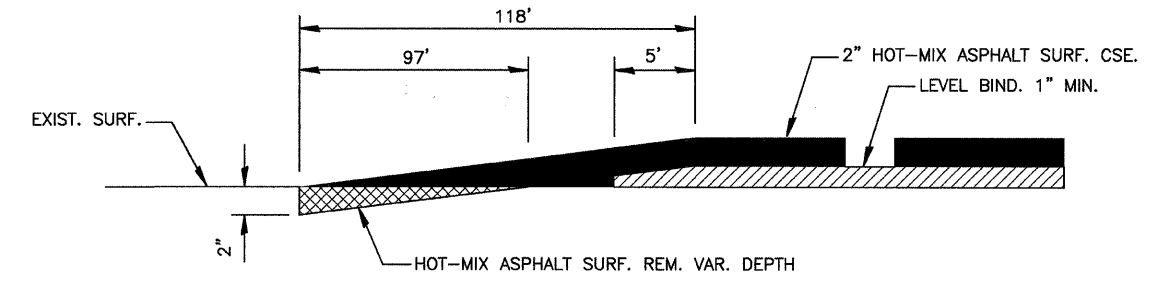
F.A.S. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
203	11BR-1	*	43	5
STA.		TO STA.		
FED. ROAD DIST. NO. - ILLINOIS FED. AID PROJECT				

\* WHITESIDE & ROCK ISLAND

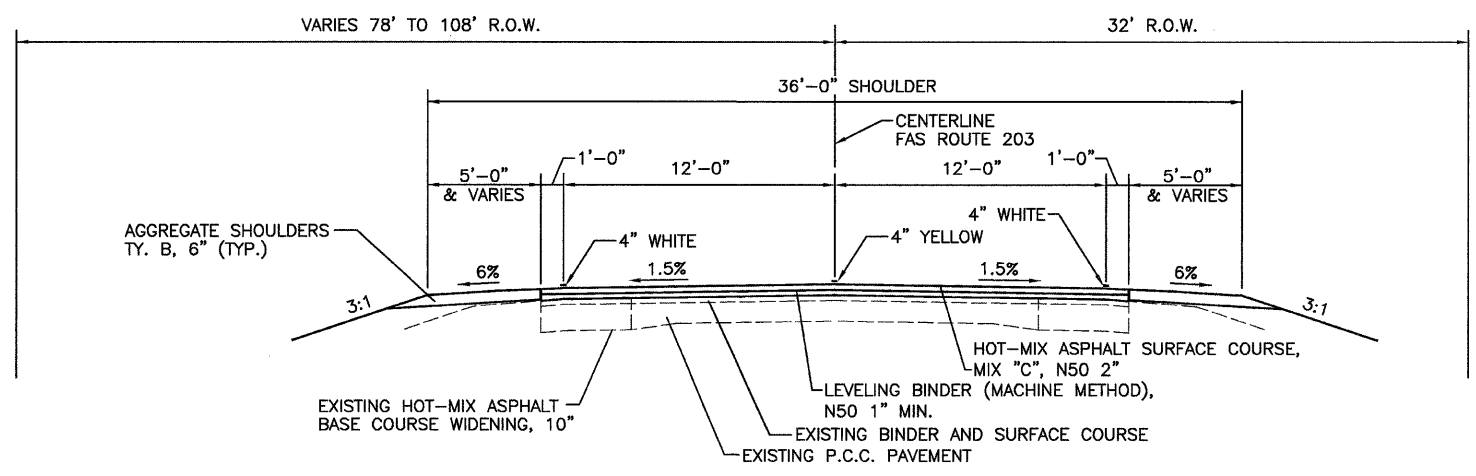


**TYPICAL SECTION**  
 STA. 426+05.16 TO STA. 427+40.43,  
 STA. 429+01.17 TO STA. 430+05.40  
 \*\* 2" HOT-MIX ASPHALT SURFACE COURSE, MIX "C", N50  
 7 1/2" HOT-MIX ASPHALT BINDER COURSE, IL 19.0, N50

PAVEMENT DESIGN DATA	
ADT = 4900 (2018)	
PV = 4582 MU = 118 SU = 200	
TRAFFIC FACTOR = 0.69	
POOR SUBGRADE SUPPORT	

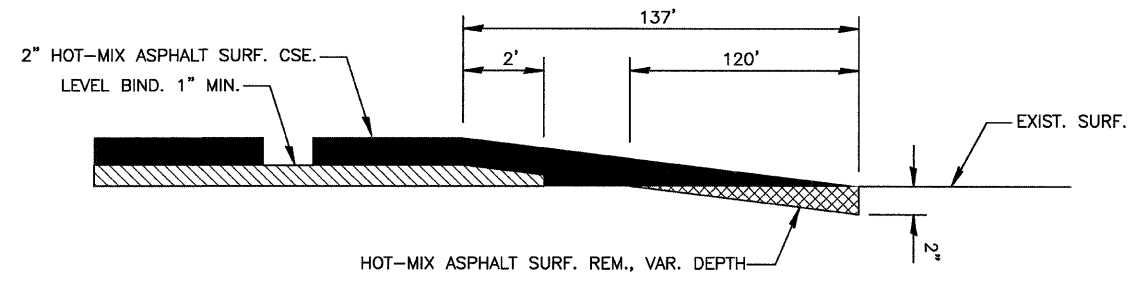


**TAPER DETAIL**  
 STA 423+75 TO STA 424+72

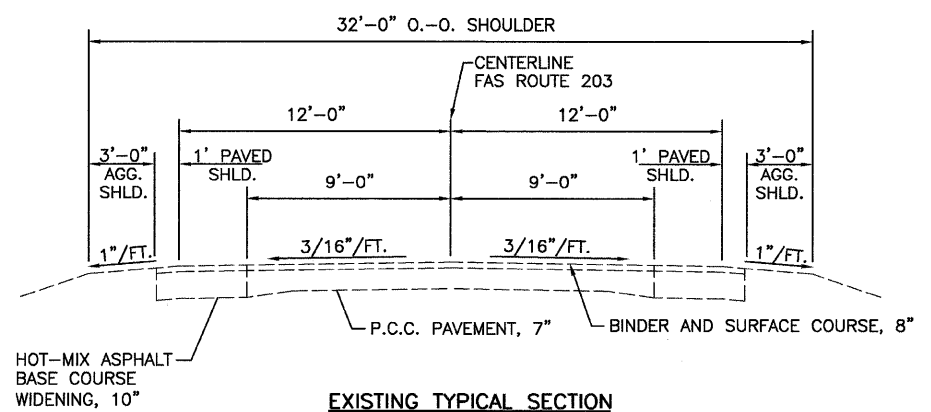


NOTE: VARIABLE DEPTH MILLING REQUIRED AT BEGINNING AND END CONSTRUCTION LOCATIONS

**TYPICAL SECTION**  
 STA. 423+75 TO STA. 426+05.16  
 STA. 430+05.40 TO STA. 432+25



**TAPER DETAIL**  
 STA 430+88 TO STA 432+25



**EXISTING TYPICAL SECTION**

HOT-MIX ASPHALT 112 LBS./SQ. YD. - INCH

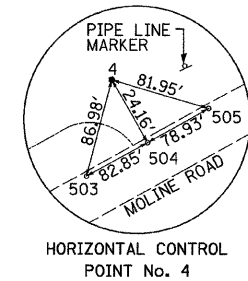
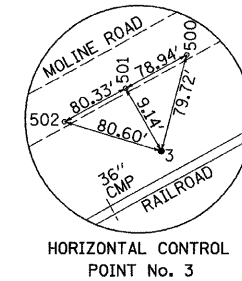
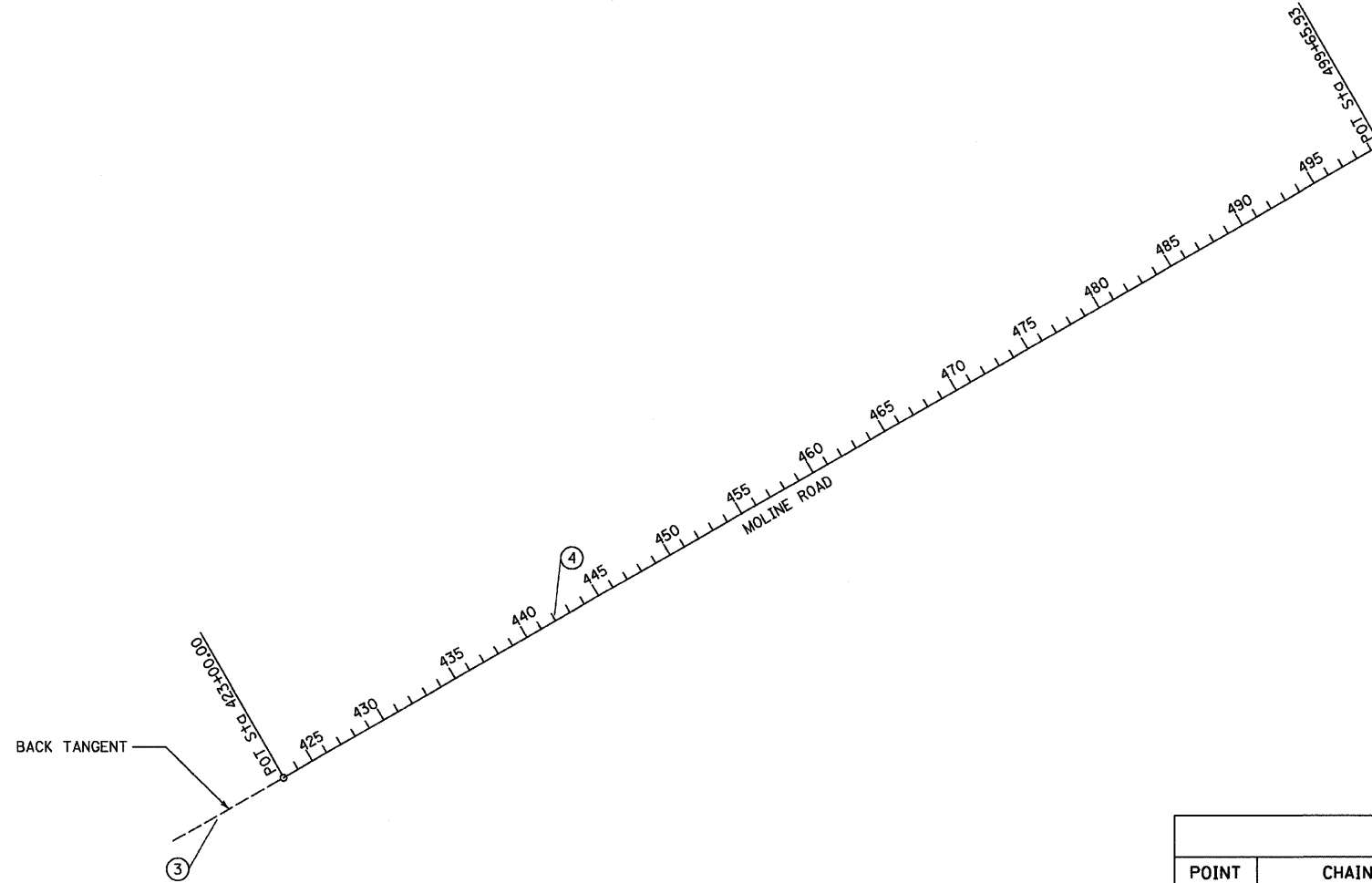
REVISIONS	
NAME	DATE

ILLINOIS DEPARTMENT OF TRANSPORTATION  
 TYPICAL SECTIONS  
 FAS 203 (MOLINE ROAD)  
 SECTION 115BR-1  
 WHITESIDE & ROCK ISLAND COUNTIES  
 SCALE: VERT. 1" = 800'  
 HORIZ. 1" = 800'  
 DATE 12/05  
 DRAWN BY NOE  
 CHECKED BY JKC

PLOT DATE = 10/07  
 FILE NAME = 2090021TYP  
 PLOT SCALE = 1" = 20'  
 USER NAME = CHMS

# HORIZONTAL & VERTICAL CONTROL

F.A.S. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
203	11BR-1	*	43	6
STA. _____		TO STA. _____		
FED. ROAD DIST. NO. - ILLINOIS FED. AID PROJECT				
• WHITESIDE & ROCK ISLAND				



REFERENCE TIES				
POINT	CHAIN	STATION	OFFSET	DESCRIPTION
500	ALIGNMR	419+05.26	11.22' RT.	SURVEY NAIL IN BITUMINOUS PAINT STRIPE
501	ALIGNMR	418+26.29	11.27' RT.	SURVEY NAIL IN BITUMINOUS PAINT STRIPE
502	ALIGNMR	417+45.93	11.36' RT.	SURVEY NAIL IN BITUMINOUS PAINT STRIPE
503	ALIGNMR	441+31.08	11.38' LT.	SURVEY NAIL IN BITUMINOUS PAINT STRIPE
504	ALIGNMR	442+13.96	11.45' LT.	SURVEY NAIL IN BITUMINOUS PAINT STRIPE
505	ALIGNMR	442+92.92	11.43' LT.	SURVEY NAIL IN BITUMINOUS PAINT STRIPE

HORIZONTAL CONTROL POINTS							
POINT	NORTH	EAST	ELEVATION	CHAIN	STATION	OFFSET	DESCRIPTION
3	1803736.812	2297137.115	580.084	ALIGNMR	418+26.04	20.41' RT.	REBAR WITH RED AMERICAN SURVEY CONSULTANT CAP
4	1804976.859	2299179.370	578.072	ALIGNMR	442+14.63	35.67' LT.	REBAR WITH RED AMERICAN SURVEY CONSULTANT CAP

BENCH MARKS							
POINT	NORTH	EAST	ELEVATION	CHAIN	STATION	OFFSET	DESCRIPTION
403	1804210.9100	2297951.8500	580.79	ALIGNMR	427+68.67	15.90' RT.	CHISELED BOX S.W. CORNER OF BRIDGE DECK
404	1804146.4700	2297942.3900	582.71	ALIGNMR	427+28.32	67.03' RT.	CHISELED BOX N. END OF WEST CONC. RETAINING WALL @ R.R.

Chain ALIGNMR contains:  
21 25

Beginning chain ALIGNMR description

```

=====
Point 21          N  1,803,990.9137   E  2,297,537.7217   Sta  423+00.000
Course from 21 to 25  N 60° 04' 44.51" E   Dist 7,665.9283
Point 25          N  1,807,814.7170   E  2,304,181.8910   Sta  499+65.928
=====
    
```

Ending chain ALIGNMR description

FILE NAME = ZBRB03HW  
PLOT SCALE = 500  
PLOT DATE = 10/07  
OPERATOR = CHAMS

F.A.S. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
203	11BR-1	*	43	7
STA. _____ TO STA. _____		FED. ROAD DIST. NO. _____ ILLINOIS FED. AID PROJECT		
* WHITESIDE & ROCK ISLAND				

20100110

TREE REMOVAL (6 TO 15 UNITS DIA.)	
LOCATION	UNIT
STA 430+14.50, 32' RT.	6
TOTAL	6

28000400

PERIMETER EROSION BARRIER	
LOCATION	FOOT
STA. 425+00 TO STA. 427+75, LT.	275
STA. 425+00 TO STA. 427+50, RT.	250
STA. 428+75 TO STA. 432+00, LT.	325
STA. 428+75 TO STA. 430+25, RT.	150
TOTAL	1000

EARTHWORK QUANTITIES

LOCATION	THEORETICAL		SHORTAGE (-) OR EXCESS (+)	REMARKS
	CUT	FILL		
	CU YD	CU YD	CU YD	
	(A)	(B)	[(A)0.75]-(B)	(C)
STA. 423+75.00 TO STA. 427+69.86	19	254	-240	MOLINE ROAD
STA. 428+71.74 TO STA. 432+25.00	32	368	-344	
STA 427+09, 38' LT.	0	38	-38	FIELD ENTRANCE
STA. 435+00, 73.5' LT.	0	292	-292	FIELD ENTRANCE
TOTAL	51	952	-914	
	PAY ITEM 20200100		PAY ITEM 20400800	

28000500

INLET AND PIPE PROTECTION	
LOCATION	EACH
STA 429+50, LT.	1
TOTAL	1

20300100

CHANNEL EXCAVATION	
LOCATION	CU YD
STA. 427+70.43 TO STA. 428+71.17	26
TOTAL	26

28000250

TEMPORARY EROSION CONTROL SEEDING	
LOCATION	POUND
STA 423+75 TO STA 427+58.60, RT.	35
STA 423+75 TO STA 427+83, LT.	30
STA 428+58.59 TO STA 432+25, RT.	45
STA 428+83 TO STA 432+25, LT.	35
TOTAL	145

25000750

MOWING	
LOCATION	ACRE
STA 423+75 TO STA 427+58.6, RT	0.1
STA 423+75 TO STA 428+32.2, LT	0.3
STA 428+53.3 TO STA 432+25.0, RT	0.1
STA 428+83.0 TO STA 432+25.0, LT	0.4
TOTAL	0.9

28000300

TEMPORARY DITCH CHECK	
LOCATION	EACH
STA 427+00, RT	1
TOTAL	1

PAVEMENT SCHEDULE

LOCATION (STA TO STA)	31100100 SUB-BASE GRANULAR MATERIAL, TYPE A	35101400 AGGREGATE BASE COURSE, TYPE B	40600200 BITUMINOUS MATERIALS (PRIME COAT)	40603310 HOT-MIX ASPHALT SURFACE COURSE, MIX "C", N50	40600525 LEVELING BINDER (HAND METHOD) N50	40600625 LEVELING BINDER (MACHINE METHOD), N50	40701871 HOT-MIX ASPHALT PAVEMENT (FULL-DEPTH), 9 1/2"	44000198 HOT-MIX ASPHALT SURFACE REMOVAL, VARIABLE DEPTH	44300200 STRIP REFLECTIVE CRACK CONTROL TREATMENT	48101200 AGGREGATE SHOULDERS, TYPE B	X0325519 DRAIN FOR AGGREGATE BASE COURSE	Z0028415 GEOTECHNICAL REINFORCEMENT	44004300 PAVEMENT BREAKING **
	TON	TON	TON	TON	TON	TON	SQ YD	SQ YD	FOOT	TON	SQ YD	SQ YD	SQ YD
STA 423+75 TO STA 427+60.23, RT.										128			
STA 423+75 TO STA 427+81.12, LT.										90			
STA 423+75 TO STA 426+05.16				75		94			461				
STA 423+75 TO STA 424+72								280					
STA 426+05.16 TO STA 427+40.43	263						391				6	436	
STA 428+60.49 TO STA 432+25, RT.										108			
STA 428+81.37 TO STA 432+25, LT.										121			
STA 429+01.17 TO STA 430+05.40	197						301				8	336	
STA 430+05.40 TO STA 432+25				71		79			439				
STA 431+05 TO STA 432+25								347					
STA 435+00 LT (FIELD ENTRANCE)			64										
STA 427+09 LT (FIELD ENTRANCE)			22										
AS DIRECTED BY THE ENGINEER			2.5	100	3					100			
STA 426+05.16 TO STA 427+77.5													498
STA 428+64.3 TO STA 430+05.40													407
TOTAL	460	86	2.5	246	3	173	692	627	900	547	14	772	905

\*\* THIS AREA INCLUDES THE PAVEMENT IN CONFLICT WITH NEW BRIDGE ABUTMENTS. REMOVAL OF THE BROKEN PAVEMENT AT THE ABUTMENTS WILL BE PAID FOR AS STRUCTURE EXCAVATION.

PLOT DATE = 10/07  
FILE NAME = 280003SCHD  
PLOT SCALE = NONE  
USER NAME = CHANS

REVISIONS		ILLINOIS DEPARTMENT OF TRANSPORTATION SCHEDULE OF QUANTITIES FAS 203 (MOLINE ROAD) SECTION 11BR-1 WHITESIDE & ROCK ISLAND COUNTIES
NAME	DATE	
		SCALE: VERT. _____ HORIZ. _____
		DATE: 12/05
		DRAWN BY ARR
		CHECKED BY JKC

F.A.S. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
203	11BR-1	*	43	8
STA. _____		TO STA. _____		
FED. ROAD DIST. NO. _____		ILLINOIS FED. AID PROJECT		
* WHITESIDE & ROCK ISLAND				

BRIDGE APPROACH PAVEMENT SCHEDULE			
LOCATION (STA TO STA)	SQ YD	42001165 BRIDGE APPROACH PAVEMENT	
		SQ YD	50300300 PROTECTIVE COAT
STA 427+40.43 TO STA 427+70.43	111	111	
STA 428+71.17 TO STA 429+01.17	111	111	
<b>TOTAL</b>	<b>222</b>	<b>222</b>	

44000700 APPROACH SLAB REMOVAL	
LOCATION	SQ YD
STA 427+77.50 TO STA 427+97.40	57
STA 428+44.40 TO STA 428+64.30	57
<b>TOTAL</b>	<b>114</b>

542D0220 PIPE CULVERTS, CLASS D, TY 1, 15"	
LOCATION	FOOT
LT. STA. 435+00 (FIELD ENTRANCE)	76
LT. STA. 429+11 (FIELD ENTRANCE) *	68
<b>TOTAL</b>	<b>144</b>

54213450 END SECTIONS, 15"	
LOCATION	EACH
LT. STA. 435+00 (FIELD ENTRANCE)	2
LT. STA. 429+11 (FIELD ENTRANCE) *	1
<b>TOTAL</b>	<b>3</b>

60801015 FLAP GATE, 15" *	
LOCATION	EACH
STA 428+82, LT	1
<b>TOTAL</b>	<b>1</b>

\* PROVISIONAL PAY ITEM SHOULD THE ENGINEER DETERMINE THE CULVERT AT THIS LOCATION DOES NOT OPERATE PROPERLY.

63000000 STEEL PLATE BEAM GUARD RAIL, TYPE A	
LOCATION	FOOT
STA 425+55.30 TO STA 427+17.80, RT.	162.5
STA 429+04.80 TO STA 429+79.80, RT.	75.0
STA 429+23.80 TO STA 430+61.30, LT.	137.5
<b>TOTAL</b>	<b>375</b>

63000130 STEEL PLATE BEAM GUARD RAIL, TYPE A, (SPECIAL)	
LOCATION	FOOT
STA 427+29.13, LT	25
<b>TOTAL</b>	<b>25</b>

63100045 TRAFFIC BARRIER TERMINAL, TYPE 2	
LOCATION	EACH
STA 427+29.13, LT.	1
<b>TOTAL</b>	<b>1</b>

63100085 TRAFFIC BARRIER TERMINAL, TYPE 6	
LOCATION	EACH
STA 427+17.80 TO STA 427+60.95, RT.	1
STA 427+36.80 TO STA 427+79.91, LT.	1
STA 428+61.69 TO STA 429+04.80, RT.	1
STA 428+80.65 TO STA 429+23.80, LT.	1
<b>TOTAL</b>	<b>4</b>

63100167 TRAFFIC BARRIER TERMINAL TYPE 1 SPECIAL (TANGENT)	
LOCATION	EACH
STA 425+55.30, RT.	1
STA 429+79.80, RT.	1
<b>TOTAL</b>	<b>2</b>

63100169 TRAFFIC BARRIER TERMINAL TYPE 1 SPECIAL (FLARED)	
LOCATION	EACH
STA 430+61.3	1
<b>TOTAL</b>	<b>1</b>

63200310 GUARDRAIL REMOVAL	
LOCATION	FOOT
STA 426+70 TO STA 427+60, RT.	90
STA 427+68 TO STA 427+89, LT.	37
STA 428+62 TO STA 429+52, RT.	90
STA 428+83 TO STA 428+95, LT.	24
<b>TOTAL</b>	<b>241</b>

63500105 DELINEATORS	
LOCATION	EACH
STA 425+05.35, RT.	1
STA 430+29.8, RT.	1
STA 431+11.3, LT.	1
<b>TOTAL</b>	<b>3</b>

PAINT PAVEMENT MARKING		
	78001110	
	4" YELLOW	4" WHITE
LOCATION	FOOT	FOOT
STA 423+75 TO STA 432+25 (2 APPLICATIONS)	420	3400
<b>TOTAL</b>	<b>420</b>	<b>3820</b>

78200410 GUARDRAIL MARKERS, TYPE A	
LOCATION	EACH
STA 425+05.3 TO STA 430+29.8, RT	5
STA 427+29.13 TO STA 431+11.26, LT	3
<b>TOTAL</b>	<b>8</b>

78200520 BARRIER WALL MARKERS, TYPE B *	
LOCATION	EACH
BRIDGE	4
<b>TOTAL</b>	<b>4</b>

\* MARKERS SHALL BE BIDIRECTIONAL SILVER/ SILVER

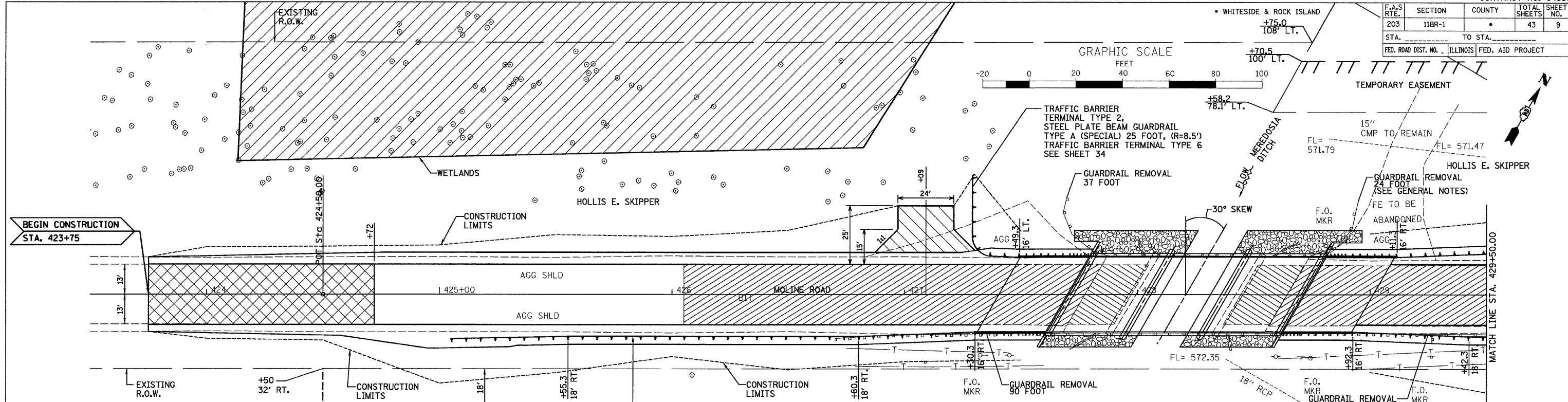
78201000 TERMINAL MARKER - DIRECT APPLIED	
LOCATION	EACH
AT EACH TYPE 1 TERMINAL	3
<b>TOTAL</b>	<b>3</b>

TREE REPLACEMENT SCHEDULE					
CODE NO.	SCIENTIFIC NAME	COMMON NAME	SIZE	UNIT	QUANTITY
A2007814	TILIA AMERICANA	AMERICAN LINDEN/BRASSWOOD	1-3/4"	EACH	6

(SEE GENERAL NOTE 33 ON SHEET 2)



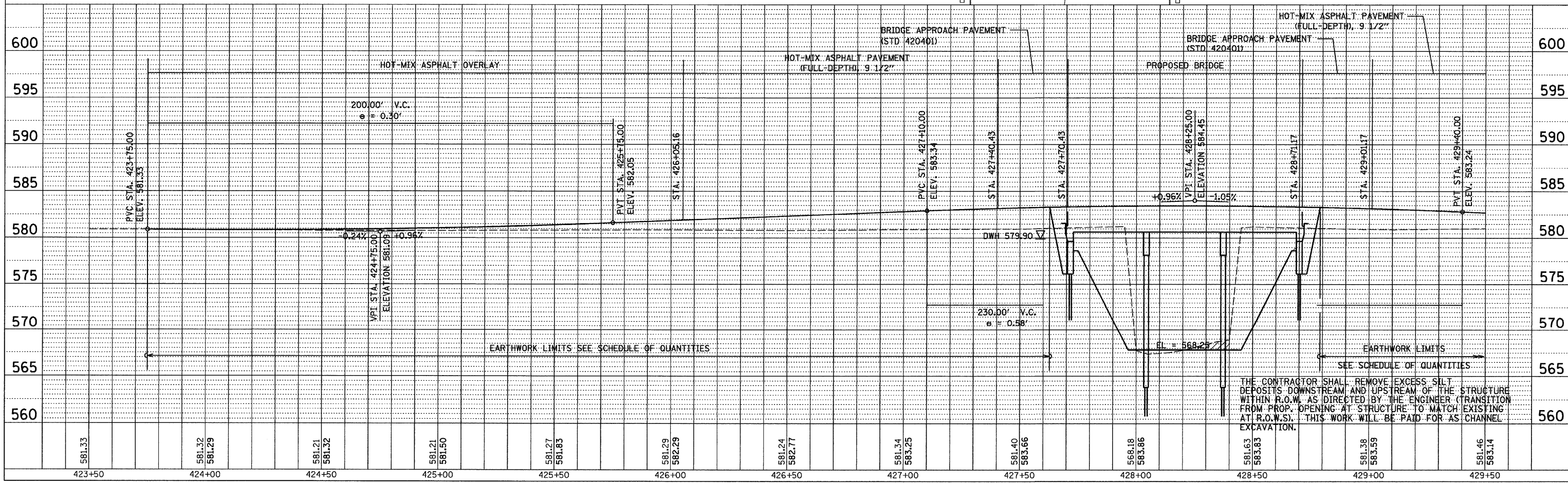
F.A.S. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
203	11BR-1	*	43	9
STA. _____ TO STA. _____		FED. ROAD DIST. NO. _____ ILLINOIS FED. AID PROJECT		



\* FLARE FIRST 37.5' OF GUARDRAIL AND LAST 12.5' TYPE 6 TERMINAL FROM 16' LEFT OR RIGHT TO 18' LEFT OR RIGHT THEN MAINTAIN 18' OFFSET.  
 BENCHMARK: CHISELED "□" AT SOUTHWEST CORNER OF BRIDGE DECK OF S.N. 098-0003. ELEV. = 580.79

PLAN	SURVEYED	DATE
NOTE BOOK	PLOTTED	BY
NO.	REVISIONS	
	NO. DATE	
	BY	
	NO.	
	DATE	

PROFILE	SURVEYED	DATE
NOTE BOOK	PLOTTED	BY
NO.	REVISIONS	
	NO. DATE	
	BY	
	NO.	
	DATE	



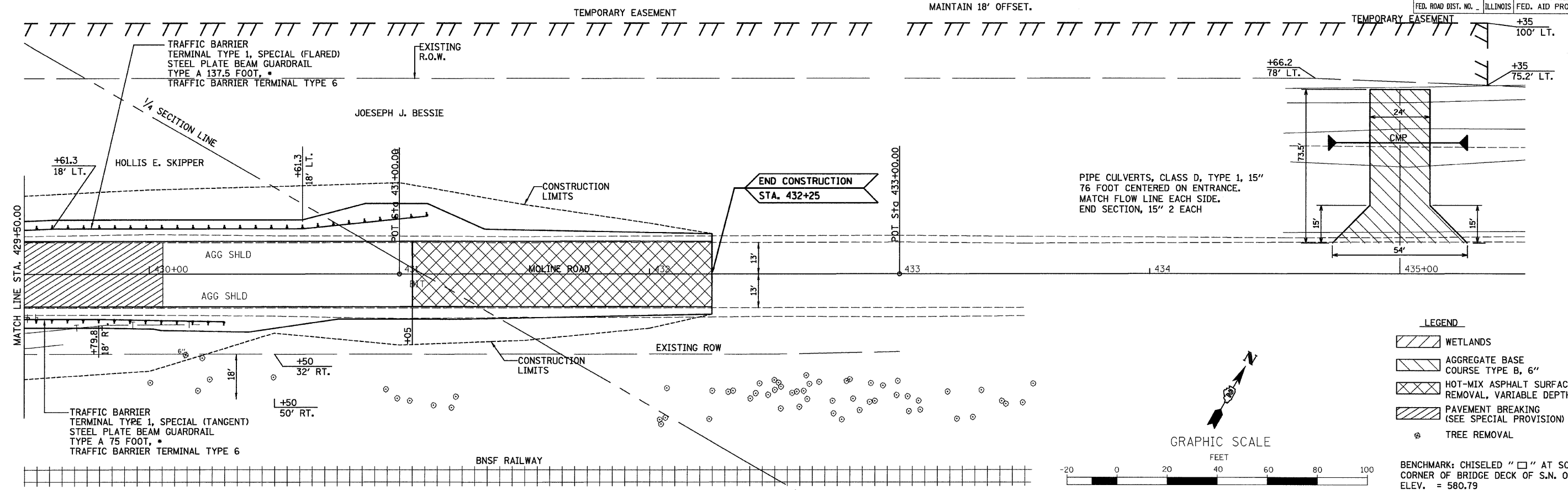
THE CONTRACTOR SHALL REMOVE EXCESS SILT DEPOSITS DOWNSTREAM AND UPSTREAM OF THE STRUCTURE WITHIN R.O.W. AS DIRECTED BY THE ENGINEER (TRANSITION FROM PROP. OPENING AT STRUCTURE TO MATCH EXISTING AT R.O.W.S.). THIS WORK WILL BE PAID FOR AS CHANNEL EXCAVATION.

PLOT DATE = 10/07  
 FILE NAME = 20190831.PLN  
 PLOT SCALE = 20  
 USER NAME = AFR

F.A.S. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
203	11B-1	*	43	10
STA. _____		TO STA. _____		
FED. ROAD DIST. NO. _____		ILLINOIS FED. AID PROJECT		

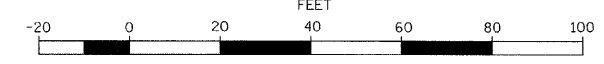
• FLARE FIRST 37.5' OF GUARDRAIL AND LAST 12.5' OF TYPE 6 TERMINAL FROM 16' LEFT OR RIGHT TO 18' LEFT OR RIGHT THEN MAINTAIN 18' OFFSET.

• WHITESIDE & ROCK ISLAND



- LEGEND**
- WETLANDS
  - AGGREGATE BASE COURSE TYPE B, 6"
  - HOT-MIX ASPHALT SURFACE REMOVAL, VARIABLE DEPTH
  - PAVEMENT BREAKING (SEE SPECIAL PROVISION)
  - TREE REMOVAL

GRAPHIC SCALE



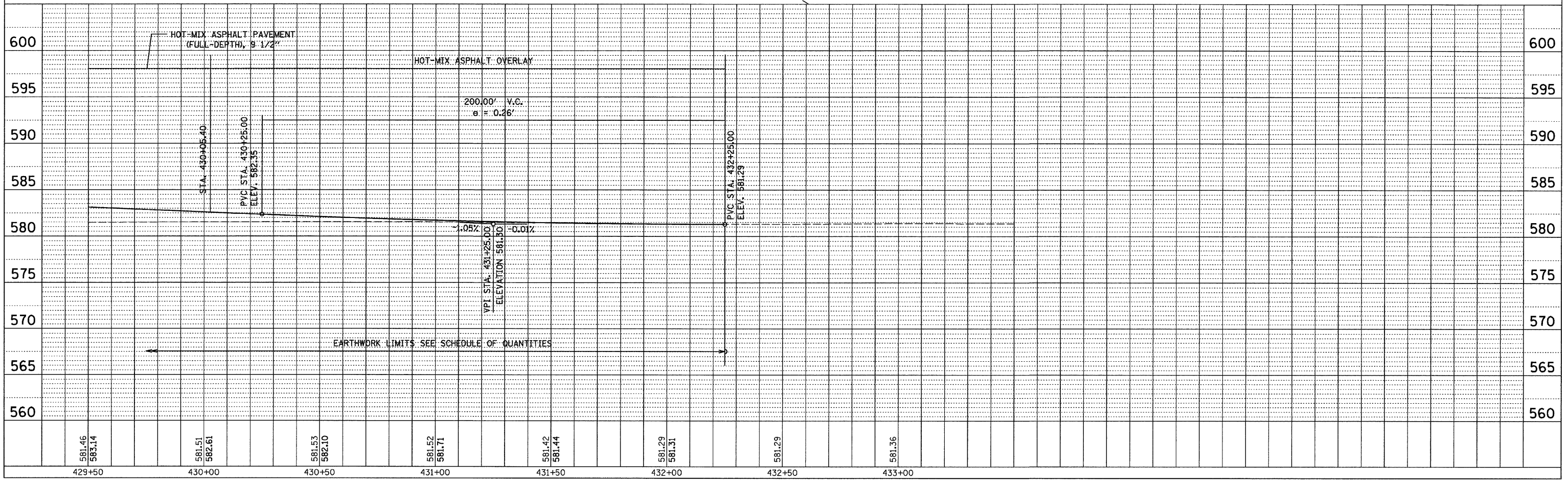
BENCHMARK: CHISELED "□" AT SOUTHWEST CORNER OF BRIDGE DECK OF S.N. 098-0003. ELEV. = 580.79

PLAN

DATE	
BY	
NO. _____	
FILE NAME	
USER NAME	

PROFILE

DATE	
BY	
NO. _____	
FILE NAME	
USER NAME	



PLOT DATE = 10/07  
 FILE NAME = 20100314.L2  
 PLOT SCALE = 20  
 USER NAME = APR

F.A.S. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
203	11BR-1	•	43	11
STA.		TO STA.		
FED. ROAD DIST. NO. -		ILLINOIS	FED. AID PROJECT	

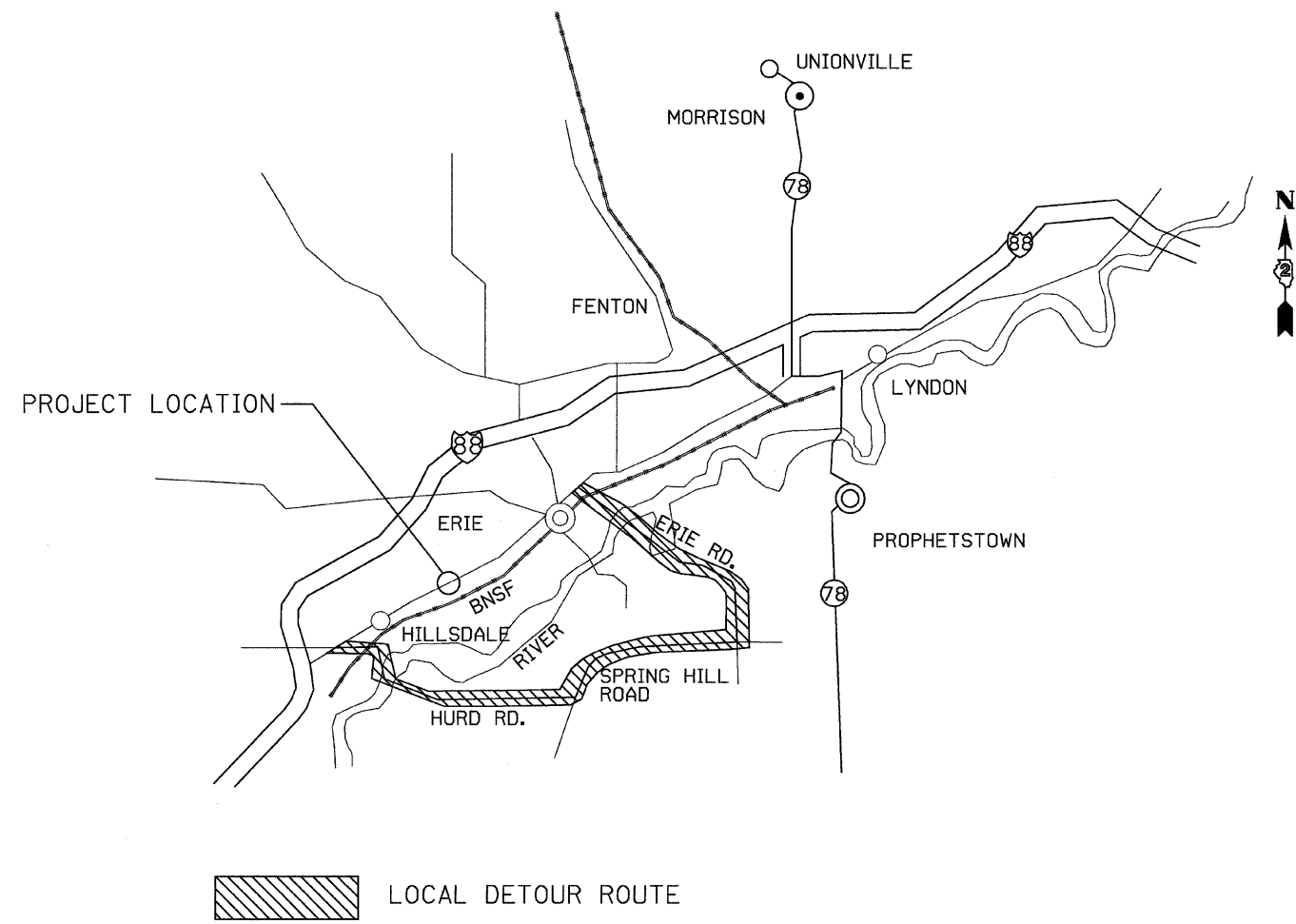
• WHITESIDE & ROCK ISLAND

**NOTES:**

QUANTITIES OF 100 TON OF HOT-MIX ASPHALT SURFACE COURSE, MIX "C", N50, 2.5 TON BITUMINOUS MATERIAL (PRIME COAT) AND 100 TON OF AGGREGATE SHOULDERS, TYPE B HAVE BEEN INCLUDED TO BE USED TO MAINTAIN:  
 -MOLINE RD TO 94TH AVE N TO 317TH ST N TO FARGO RD TO MOLINE RD  
 -MOLINE RD TO MAIN ST TO JACKSON ST TO HURD RD TO SPRING HILL RD TO ERIE RD TO MOLINE RD  
 -MOLINE RD TO MAIN ST TO ELSTON RD TO MOLINE RD

ERIE TOWNSHIP AND CANOE CREEK TOWNSHIP COMMISSIONERS AND ROCK ISLAND AND WHITESIDE COUNTY ENGINEERS SHALL BE INFORMED 1 WEEK PRIOR TO THE CONSTRUCTION BEGINNING. ABOVE LISTED SHALL BE INVITED TO THE PRE-CONSTRUCTION MEETING.

THE RESIDENT ENGINEER, PRIOR TO CLOSING THE ROAD AND AFTER THE PROJECT IS FINISHED, SHALL CONTACT THE CORRESPONDING TOWNSHIPS OF ERIE AND CANOE CREEK AND ROCK ISLAND AND WHITESIDE COUNTY TO VIDEOTAPE THE FOLLOWING ROADS: 94TH AVE, 317TH ST, FARGO RD, MAIN ST, JACKSON ST, HURD RD, SPRING HILL RD, ERIE RD, ELSTON RD.



 LOCAL DETOUR ROUTE

PLOT DATE = 10/07  
 FILE NAME = Z99903TRAFFCNTL  
 PLOT SCALE = 1" = 1000'  
 USER NAME = CHANS

REVISIONS	
NAME	DATE

ILLINOIS DEPARTMENT OF TRANSPORTATION  
 TRAFFIC CONTROL PLAN  
 FAS 203 (MOLINE ROAD)  
 SECTION 11BR-1  
 WHITESIDE & ROCK ISLAND COUNTIES

SCALE: VERT. 1" = 1000'  
 HORIZ. 1" = 1000'  
 DATE 3/06

DRAWN BY KKP  
 CHECKED BY JKC

Existing Structure: SN 098-0003 to be removed. Originally built in 1924 as Route 5813 Section 11 B. Single span, prestressed concrete box beam with closed abutments on pile supported footings. 47'-4" Bk. to Bk. abutments. Superstructure was replaced and widened in 1971.

Benchmark: Chiseled "□" at Southwest Corner of Bridge Deck of S.N. 098-0003. Elev. = 580.79

STATE OF ILLINOIS  
DEPARTMENT OF TRANSPORTATION

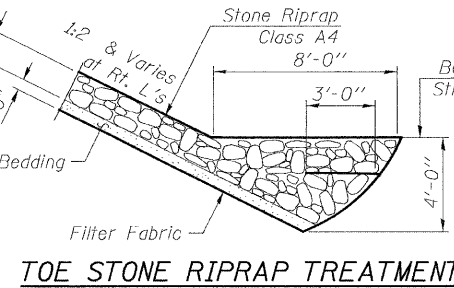
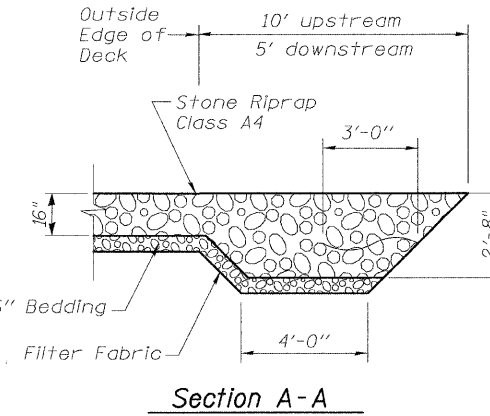
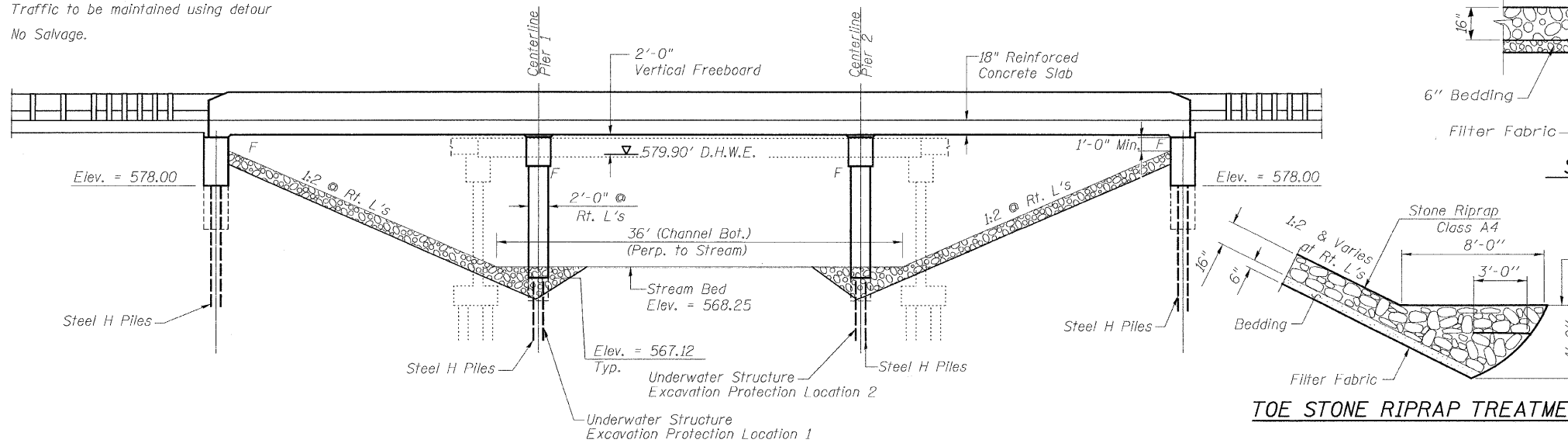
SHEET #1 OF  
11 SHEETS

ROUTE NO.	SECTION	COUNTY	SHEET	TOTAL
FAS 203	11BR-1	WHITESIDE & ROCK ISLAND	12	43
FED. ROAD DIST. NO. 3		ILLINOIS	FED. AID PROJECT-	

CONTRACT #64939

Contractor shall remove existing structure as required and replace with a 3 span reinforced concrete slab bridge on pile bent piers and integral abutments.

Traffic to be maintained using detour  
No Salvage.



INDEX OF SHEETS

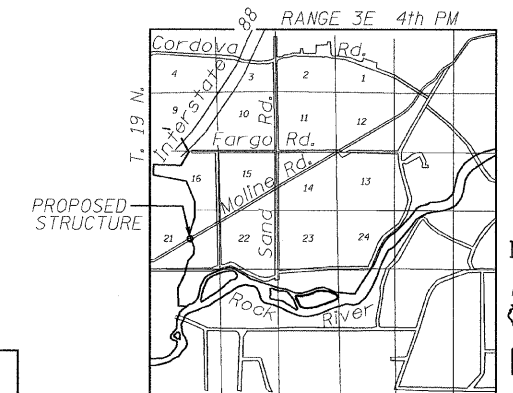
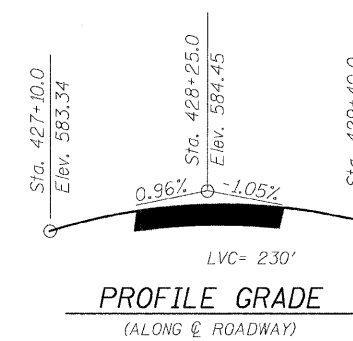
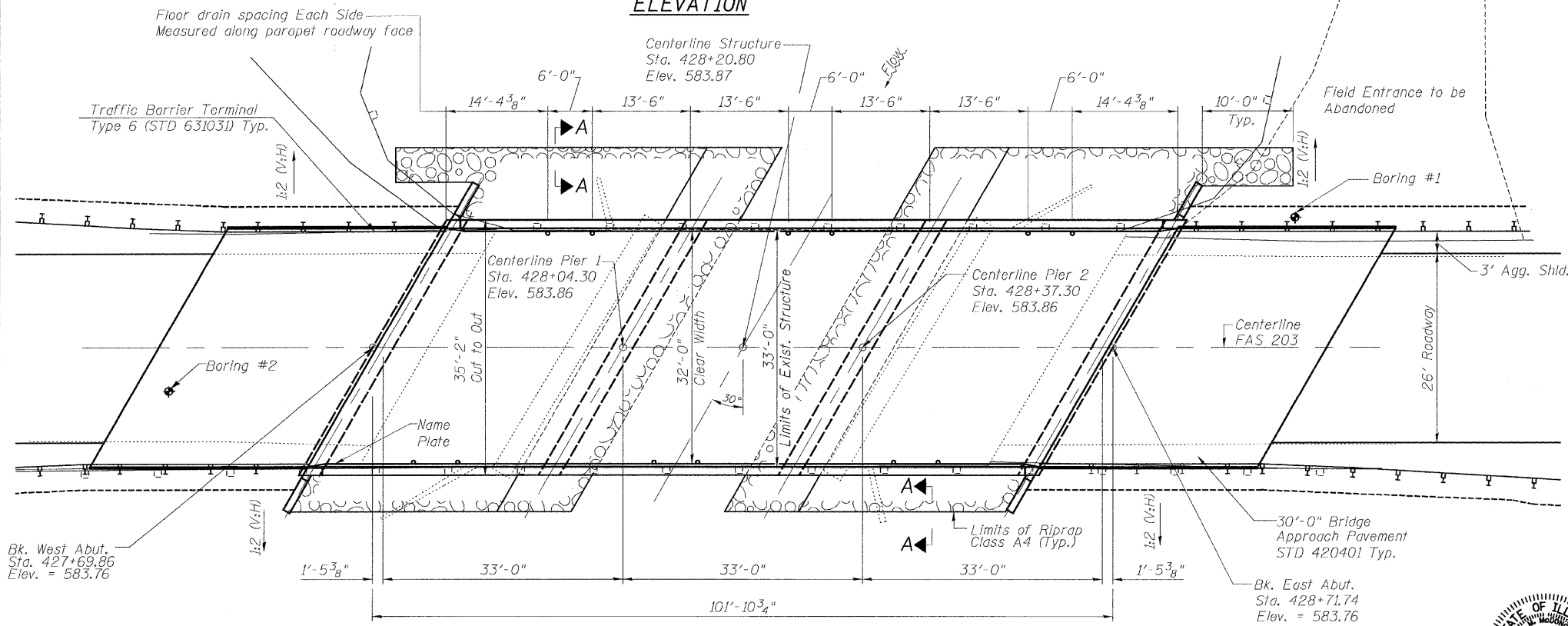
1. GENERAL PLAN AND ELEVATION
2. FOUNDATION PLAN
3. DECK ELEVATIONS
4. SUPERSTRUCTURE PLAN
5. SUPERSTRUCTURE DETAILS
6. SUPERSTRUCTURE DETAILS
7. PILE BENT ABUTMENT
8. PILE BENT PIER
9. BAR SPLICER DETAILS
10. BORING LOGS
11. BORING LOGS

WATERWAY INFORMATION

DRAINAGE AREA = 90.4 SQ. MI. LOW GRADE ELEV. = 581.2 (Exist./Prop.) @ Sta. 424+50

Flood	FREQ. YR.	Q C.F.S.	OPENING SQ. FT.		NAT. H.W.E.	HEAD - FT.		HEADWATER EL.	
			EXIST.	PROP.		EXIST.	PROP.	EXIST.	PROP.
	10	1635	360	517	578.2	0.2	0.4	578.4	578.6
Design	50	2247	410	646	579.9	0.7	0.4	580.6	580.3
Overtop (E)	90	2400	410	-	580.3	0.9	-	581.2	-
Base	100	2482	410	685	580.4	1.0	0.5	581.4	580.9
Overtop (P)	250	2700	-	717	580.8	-	0.4	-	581.2
Max. Calc.	500	3016	410	772	581.5	1.3	0.3	582.8	581.8

10 year velocity through existing bridge = 4.5 fps  
10 year velocity through prop. bridge = 3.2 fps



STATION 428+20.80  
BUILT 200 BY  
STATE OF ILLINOIS  
F.A. RT. 203 SEC. 11BR-1  
LOADING HS20  
STR. NO. 098-0111

NAME PLATE  
Locate Name Plate at Southwest Corner of Bridge See Std. 515001

DESIGNED	KCM
CHECKED	TMM
DRAWN	JLM
CHECKED	TMM

DESIGN SPECIFICATIONS

2002 AASHTO

DESIGN STRESSES

FIELD UNITS

$f'_c = 3,500$  psi  
 $f_y = 60,000$  psi (Reinforcement)

SEISMIC DATA

S.P.C. A  
A = 0.04  
S = 1.0

LOADING HS20-44

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

APPROVED  
FOR STRUCTURAL ADEQUACY ONLY

Ralph E. Anderson  
ENGINEER OF BRIDGES AND STRUCTURES



Toni M. McDonough  
License Expires 11/30/08  
Date 11-7-07

STATE OF ILLINOIS  
DEPARTMENT OF TRANSPORTATION

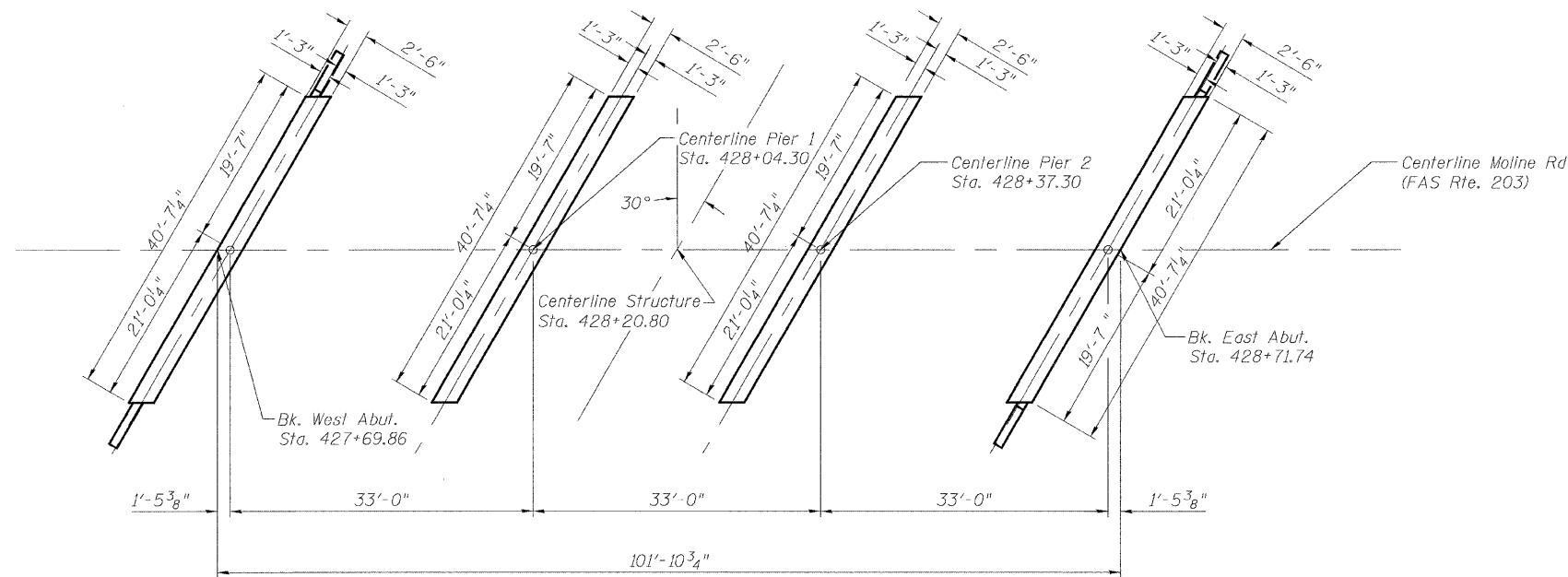
SHEET #2 OF  
11 SHEETS

ROUTE NO.	DISTRICT	COUNTY	SHEET	TOTAL SHEETS
FAS 203	11BR-1	WHITESIDE & ROCK ISLAND	13	43
FED. ROAD DIST. NO. 3		ILLINOIS FED. AID PROJECT-		

CONTRACT #64939

GENERAL NOTES

- The Contractor shall drive 2 test piles, as specified, in permanent locations. 1 HP 8x36 in the West Abutment and 1 HP 12x53 in pier 1, as directed by the Engineer before ordering the remaining piles. The test piles shall be driven to 110 percent of the Nominal Required Bearing indicated in the pile data information.
- Layout of the slope protection system may be varied in the field to suit ground conditions as directed by the Engineer.
- Reinforcement bars shall conform to the requirements of ASTM A706 Grade 60 (Illinois Modified) See Special Provisions.
- The Contractor shall make allowance for the deflection of forms, shrinkage and settlement of falsework, in addition to allowance for dead load deflection.
- All construction joints shall be bonded.
- The aggregate material for Pipe Underdrain for Structures shall be CA 7.
- The steel H-piles shall be according to AASHTO M270 Grade 50.
- Slip forming the upper portion of the parapet is not allowed.



PLAN

TOTAL BILL OF MATERIAL

Item	Unit	Super	Sub.		Total
			Piers	Abuts.	
Porous Granular Embankment, (Special)	Cu. Yd.	--	--	66	66
Stone Riprap, Class A4	Sq. Yd.	--	--	--	438
Filter Fabric	Sq. Yd.	--	--	--	438
Removal of Existing Structures	Each	--	--	--	1
Structure Excavation	Cu. Yd.	--	19	91	110
Floor Drains	Each	12	--	--	12
Concrete Structures	Cu. Yd.	--	88.6	29.4	118.0
Concrete Superstructure	Cu. Yd.	228.8	--	--	228.8
Bridge Deck Grooving	Sq. Yd.	336	--	--	336
Protective Coat	Sq. Yd.	451	--	--	451
Reinforcement Bars, Epoxy Coated	Pound	37,480	6,960	3,220	47,660
Furnishing Steel Piles HP8x36	Foot	--	--	551	551
Furnishing Steel Piles HP12x53	Foot	--	537	--	537
Driving Piles	Foot	--	537	551	1088
Test Pile Steel HP8x36	Each	--	--	1	1
Test Pile Steel HP12x53	Each	--	1	--	1
Pile Shoes	Each	--	12	12	24
Name Plates	Each	1	--	--	1
Geocomposite Wall Drain	Sq. Yd.	--	--	36	36
Pipe Underdrains For Structures 4"	Foot	--	--	101	101
Underwater Structure Excavation Protection -Location 1	Each	--	1	--	1
Underwater Structure Excavation Protection -Location 2	Each	--	1	--	1
Bar Splicers	Each	66	--	--	66

DESIGNED	KCM
CHECKED	TMM
DRAWN	JLM
CHECKED	TMM

FOUNDATION PLAN  
FAS ROUTE 203 (MOLINE ROAD)  
OVER MEREDOSIA DITCH  
SECTION 11BR-1  
STA. 428+20.80  
WHITESIDE & ROCK ISLAND COUNTIES  
SN 098-0111

STATE OF ILLINOIS  
DEPARTMENT OF TRANSPORTATION

SHEET #3 OF  
11 SHEETS

ROUTE NO.	SECTION	COUNTY	DATE	SHEET
FAS 203	11BR-1	WHITESIDE & ROCK ISLAND	14	43
FED. ROAD DIST. NO. 3		ILLINOIS FED. AID PROJECT-		

CONTRACT #64939

OFFSET 12.00 LT

Location	Station	Offset	Theoretical Grade Elevations	Theoretical Grade Elevations Adjusted for Dead Load Deflection
Centerline W. Abut	427+78.23	12.00 LT	583.610	583.610
A	427+86.48	12.00 LT	583.637	583.666
B	427+94.73	12.00 LT	583.658	583.693
C	428+02.98	12.00 LT	583.673	583.693
Centerline Pier 1	428+11.23	12.00 LT	583.683	583.683
D	428+19.48	12.00 LT	583.686	583.682
E	428+27.73	12.00 LT	583.683	583.681
F	428+35.98	12.00 LT	583.674	583.670
Centerline Pier 2	428+44.23	12.00 LT	583.660	583.660
G	428+52.48	12.00 LT	583.639	583.659
H	428+60.73	12.00 LT	583.613	583.648
J	428+68.98	12.00 LT	583.580	583.609
Centerline E. Abut	428+77.23	12.00 LT	583.542	583.542

CENTERLINE

Location	Station	Offset	Theoretical Grade Elevations	Theoretical Grade Elevations Adjusted for Dead Load Deflection
Centerline W. Abut	427+71.30	0.00	583.764	583.764
A	427+79.55	0.00	583.802	583.831
B	427+87.80	0.00	583.828	583.863
C	427+96.05	0.00	583.849	583.869
Centerline Pier 1	428+04.30	0.00	583.863	583.863
D	428+12.55	0.00	583.871	583.867
E	428+20.80	0.00	583.873	583.871
F	428+29.05	0.00	583.870	583.865
Centerline Pier 2	428+37.30	0.00	583.860	583.860
G	428+45.55	0.00	583.844	583.864
H	428+53.80	0.00	583.823	583.858
J	428+62.05	0.00	583.795	583.824
Centerline E. Abut	428+70.30	0.00	583.762	583.762

OFFSET 12.00 RT

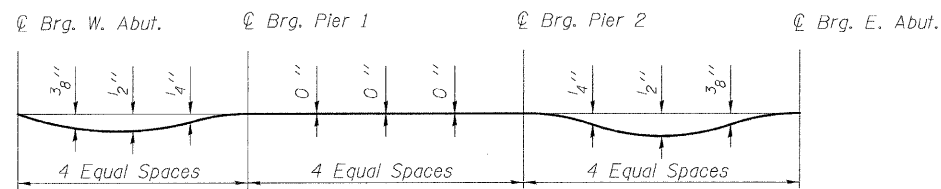
Location	Station	Offset	Theoretical Grade Elevations	Theoretical Grade Elevations Adjusted for Dead Load Deflection
Centerline W. Abut	427+64.37	12.00 RT	583.551	583.551
A	427+72.62	12.00 RT	583.588	583.617
B	427+80.87	12.00 RT	583.619	583.654
C	427+89.12	12.00 RT	583.645	583.665
Centerline Pier 1	427+97.37	12.00 RT	583.664	583.664
D	428+05.62	12.00 RT	583.677	583.673
E	428+13.87	12.00 RT	583.684	583.682
F	428+22.12	12.00 RT	583.686	583.681
Centerline Pier 2	428+30.37	12.00 RT	583.681	583.681
G	428+38.62	12.00 RT	583.670	583.690
H	428+46.87	12.00 RT	583.654	583.689
J	428+55.12	12.00 RT	583.631	583.660
Centerline E. Abut	428+63.37	12.00 RT	583.603	583.603

OFFSET 16.00 LT

Location	Station	Offset	Theoretical Grade Elevations	Theoretical Grade Elevations Adjusted for Dead Load Deflection
Centerline W. Abut	427+80.54	16.00 LT	583.535	583.535
A	427+88.79	16.00 LT	583.560	583.589
B	427+97.04	16.00 LT	583.580	583.615
C	428+05.29	16.00 LT	583.593	583.613
Centerline Pier 1	428+13.54	16.00 LT	583.601	583.601
D	428+21.79	16.00 LT	583.602	583.598
E	428+30.04	16.00 LT	583.598	583.595
F	428+38.29	16.00 LT	583.588	583.583
Centerline Pier 2	428+46.54	16.00 LT	583.571	583.571
G	428+54.79	16.00 LT	583.549	583.569
H	428+63.04	16.00 LT	583.521	583.556
J	428+71.29	16.00 LT	583.487	583.516
Centerline E. Abut	428+79.54	16.00 LT	583.447	583.447

OFFSET 16.00 RT

Location	Station	Offset	Theoretical Grade Elevations	Theoretical Grade Elevations Adjusted for Dead Load Deflection
Centerline W. Abut	427+62.06	16.00 RT	583.457	583.457
A	427+70.31	16.00 RT	583.495	583.524
B	427+78.56	16.00 RT	583.528	583.563
C	427+86.81	16.00 RT	583.555	583.575
Centerline Pier 1	427+95.06	16.00 RT	583.576	583.576
D	428+03.31	16.00 RT	583.591	583.586
E	428+11.56	16.00 RT	583.599	583.597
F	428+19.81	16.00 RT	583.602	583.598
Centerline Pier 2	428+28.06	16.00 RT	583.600	583.600
G	428+36.31	16.00 RT	583.591	583.611
H	428+44.56	16.00 RT	583.576	583.611
J	428+52.81	16.00 RT	583.555	583.584
Centerline E. Abut	428+61.06	16.00 RT	583.528	583.528

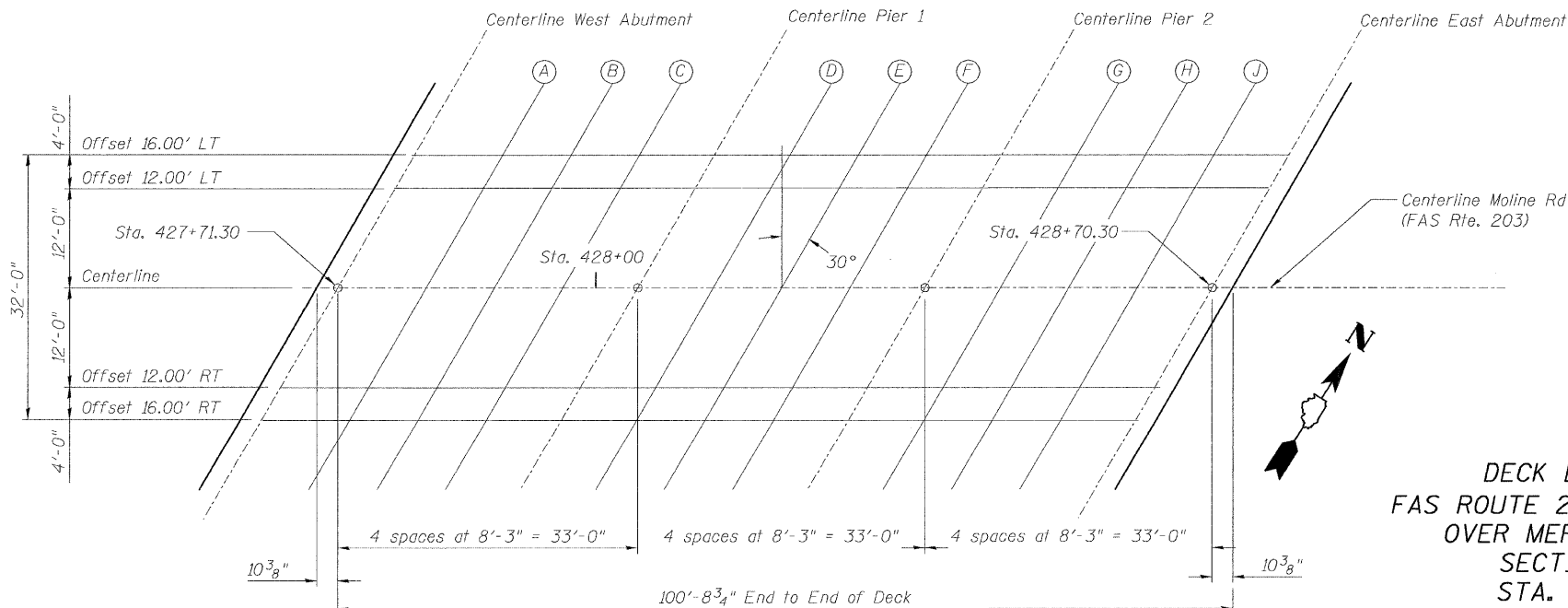


DEAD LOAD DEFLECTION DIAGRAM

(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 above.



PLAN

DECK ELEVATIONS  
FAS ROUTE 203 (MOLINE ROAD)  
OVER MEREDOSIA DITCH  
SECTION 11BR-1  
STA. 428+20.80  
WHITESIDE & ROCK ISLAND COUNTIES  
SN 098-0111

DESIGNED	KCM
CHECKED	TMM
DRAWN	JLM
CHECKED	TMM

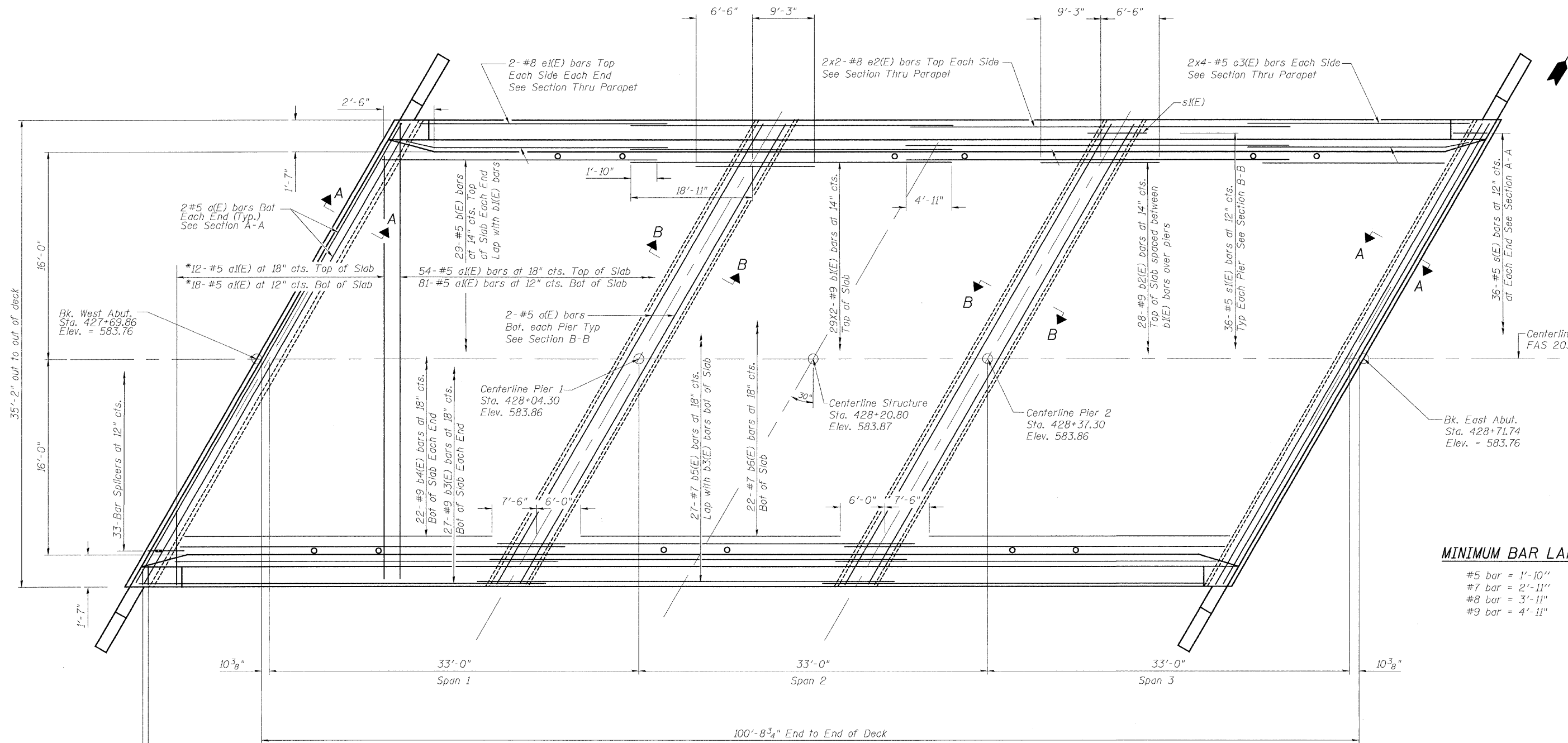
STATE OF ILLINOIS  
DEPARTMENT OF TRANSPORTATION

SHEET #4 OF  
11 SHEETS

ROUTE NO.	SECTION	COUNTY	JOB NO.	SHEET
FAS 203	11BR-1	WHITESIDE & ROCK ISLAND	15	43
FED. ROAD DIST. NO. 3	ILLINOIS	FED. AID PROJECT-		

CONTRACT #64939

\* Order a(E) bars full length  
Cut to fit skew and use  
remainder in opposite end  
(See Bar Cutting Diagram)



**MINIMUM BAR LAP**

#5 bar	= 1'-10"
#7 bar	= 2'-11"
#8 bar	= 3'-11"
#9 bar	= 4'-11"

**PLAN**

**NOTES**

1. See sheets No. 5 and 6 of 11 for Superstructure Details, parapet reinforcing, and Bill of Materials.
2. Reinforcing bars designated (E) shall be epoxy coated.
3. Bars indicated thus 6x3-#5 etc. indicates 6 lines of bars with 3 lengths per line.
4. See sheet No.1 of 11 for floor drain spacing.
5. Space reinforcement bars to clear floor drain.

**SUPERSTRUCTURE PLAN**  
FAS ROUTE 203 (MOLINE ROAD)  
OVER MEREDOSIA DITCH  
SECTION 11BR-1  
STA. 428+20.80  
WHITESIDE & ROCK ISLAND COUNTIES  
SN 098-0111

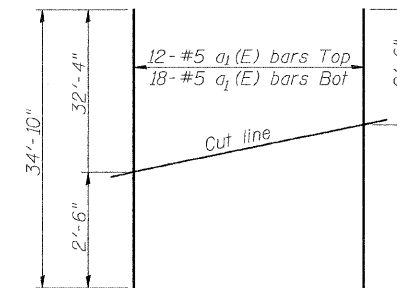
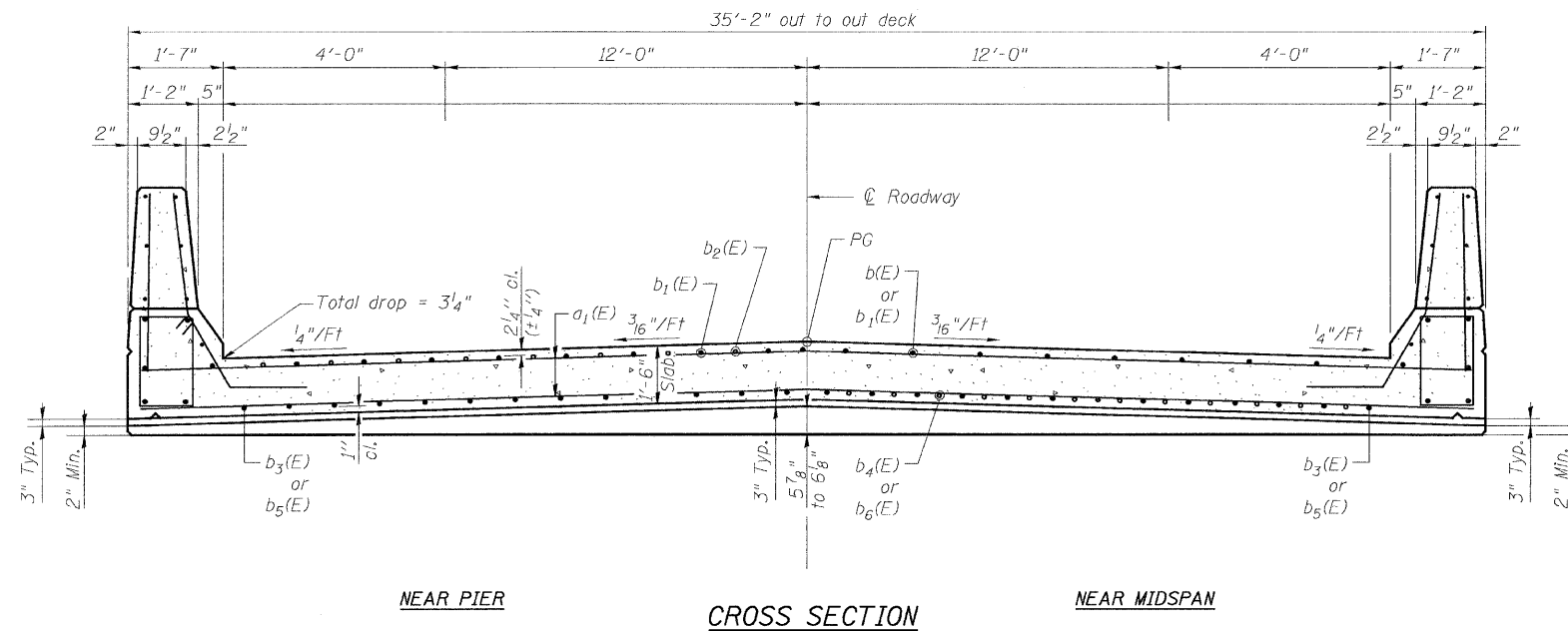
DESIGNED	KCM
CHECKED	TMM
DRAWN	JLM
CHECKED	TMM

STATE OF ILLINOIS  
DEPARTMENT OF TRANSPORTATION

SHEET #5 OF  
11 SHEETS

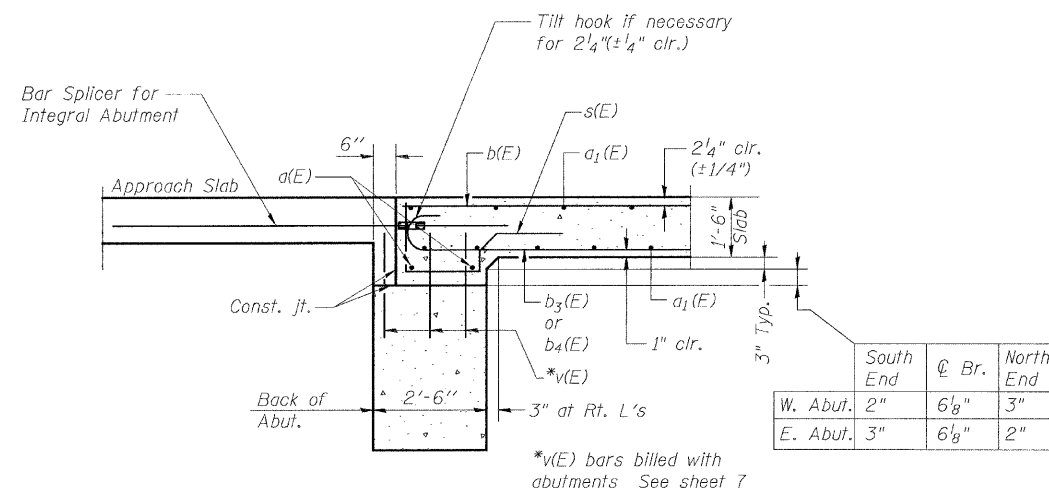
ROUTE NO.	SECTION	COUNTY	SHEET	TOTAL
FAS 203	11BR-1	WHITESIDE & ROCK ISLAND	16	43
FED. ROAD DIST. NO. 3		ILLINOIS FED. AID PROJECT-		

CONTRACT #64939



**FIELD CUTTING DIAGRAM**

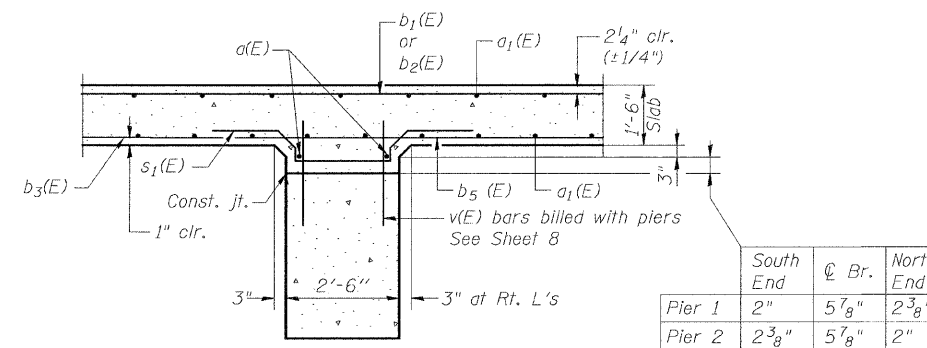
Order  $a_1(E)$  bars full length.  
Cut to fit and use the remainder of bars  
in opposite face.



**SECTION A-A**

**SECTION THRU ABUTMENT**

	South End	☉ Br.	North End
W. Abut.	2"	6 1/8"	3"
E. Abut.	3"	6 1/8"	2"



**SECTION B-B**

**SECTION THRU PIER**

	South End	☉ Br.	North End
Pier 1	2"	5 7/8"	2 3/8"
Pier 2	2 3/8"	5 7/8"	2"

**NOTES**

- See sheets No. 4 and 6 of 11 for Plan, parapet reinforcing, and Bill of Materials.
- Reinforcing bars designated (E) shall be epoxy coated.
- Bars indicated thus 6x3-#5 etc. indicates 6 lines of bars with 3 lengths per line.
- See sheet No.1 of 11 for floor drain spacing.
- Space reinforcement bars to clear floor drain.

DESIGNED	KCM
CHECKED	TMM
DRAWN	JLM
CHECKED	TMM

SUPERSTRUCTURE DETAILS  
FAS ROUTE 203 (MOLINE ROAD)  
OVER MEREDOSIA DITCH  
SECTION 11BR-1  
STA. 428+20.80  
WHITESIDE & ROCK ISLAND COUNTIES  
SN 098-0111

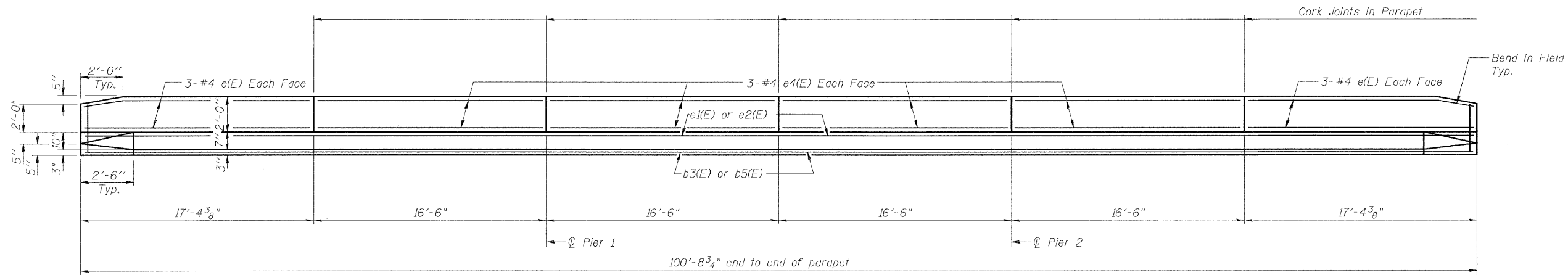


STATE OF ILLINOIS  
DEPARTMENT OF TRANSPORTATION

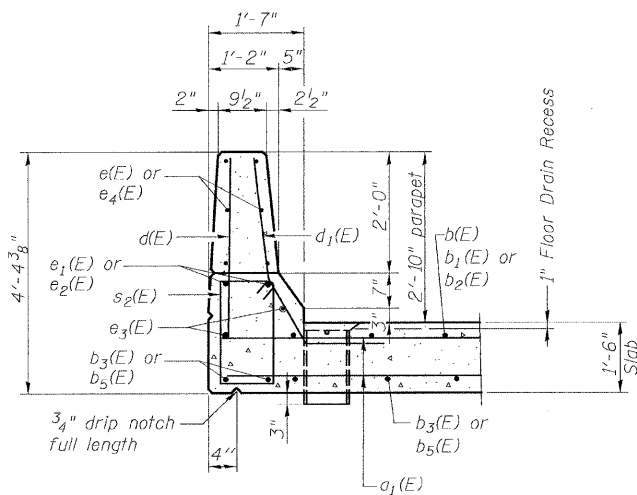
SHEET #6 OF  
11 SHEETS

ROUTE NO.	SECTION	COUNTY	SHEET	TOTAL
FAS 203	11BR-1	WHITESIDE & ROCK ISLAND	17	43
FED. ROAD DIST. NO. 3	ILLINOIS	FED. AID PROJECT-		

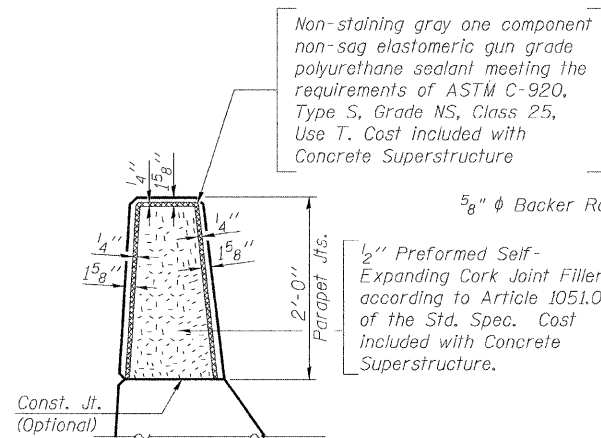
CONTRACT #64939



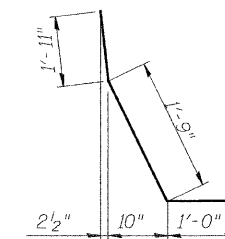
INSIDE ELEVATION OF PARAPET



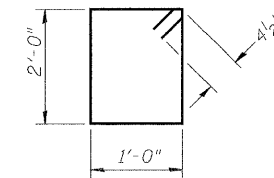
SECTION THRU PARAPET



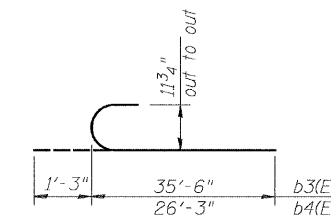
PARAPET JOINT DETAILS



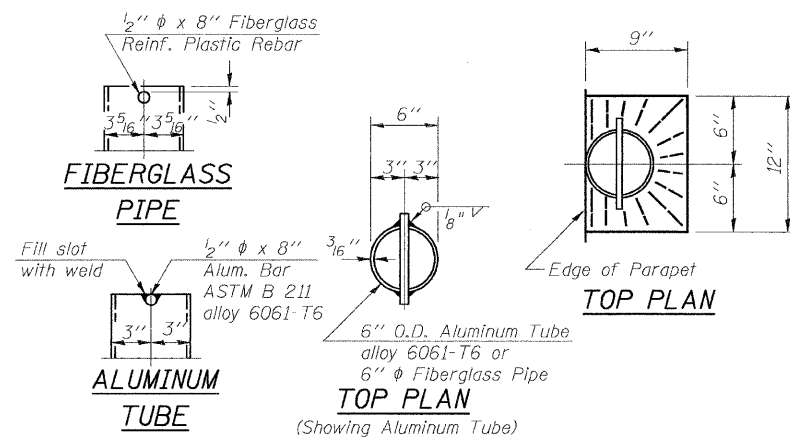
BAR d1(E)



BAR s2(E)



BAR b3(E) and b4(E)



FLOOR DRAINS

Notes:

Fiberglass pipe shall conform to ASTM D 2996, with short-time rupture strength hoop tensile stress of 30,000 p.s.i. minimum.  
The exterior surfaces of the floor drains shall be coated or pigmented by the manufacturer with a color that matches the concrete

DESIGNED	KCM
CHECKED	TMM
DRAWN	JLM
CHECKED	TMM

SUPERSTRUCTURE  
BILL OF MATERIAL

Bar	No.	Size	Length	Shape
a(E)	8	#5	40'-2"	—
a1(E)	165	#5	34'-10"	—
b(E)	58	#5	16'-8"	—
b1(E)	58	#9	37'-11"	—
b2(E)	56	#9	15'-9"	—
b3(E)	54	#9	36'-9"	—
b4(E)	44	#9	27'-6"	—
b5(E)	27	#7	36'-6"	—
b6(E)	22	#7	21'-0"	—
d(E)	204	#4	3'-0"	—
d1(E)	222	#5	4'-8"	—
e(E)	24	#4	17'-0"	—
e1(E)	8	#8	18'-9"	—
e2(E)	8	#8	37'-5"	—
e3(E)	16	#5	26'-6"	—
e4(E)	48	#4	16'-2"	—
s(E)	72	#5	6'-0"	—
s1(E)	72	#5	7'-4"	—
s2(E)	204	#4	6'-9"	—
Reinforcement Bars, Epoxy Coated		Pound		37480
Concrete Superstructure		Cu. Yds.		228.8

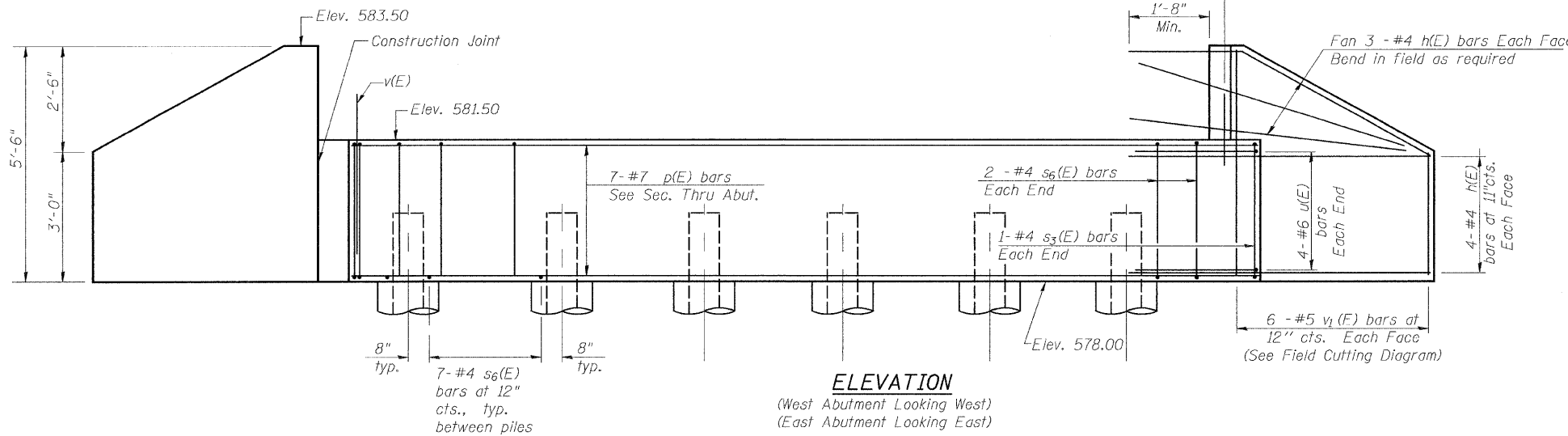
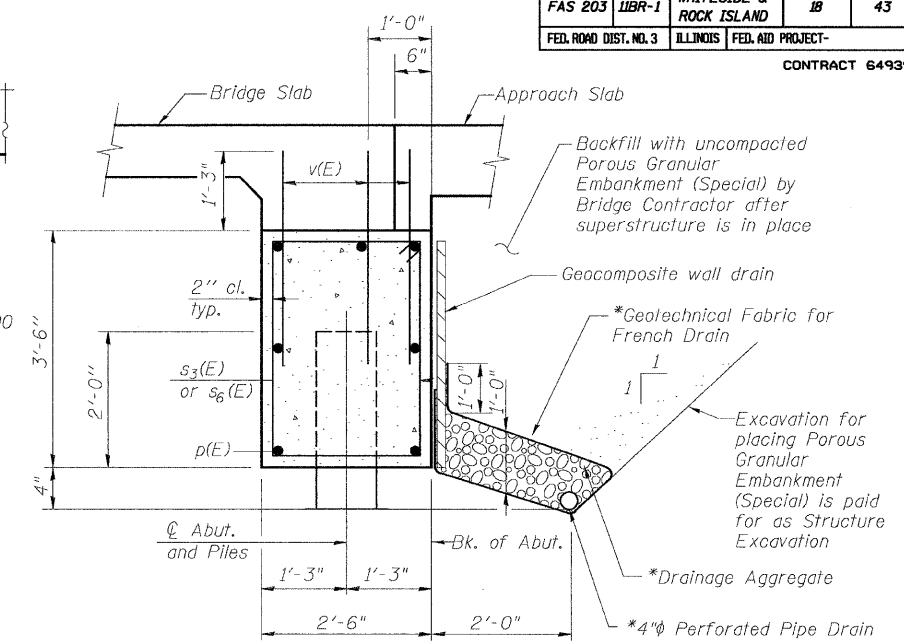
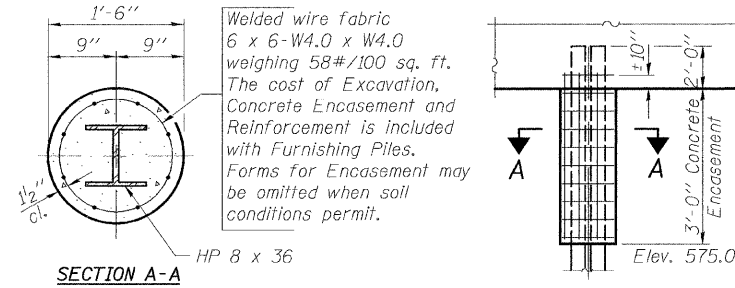
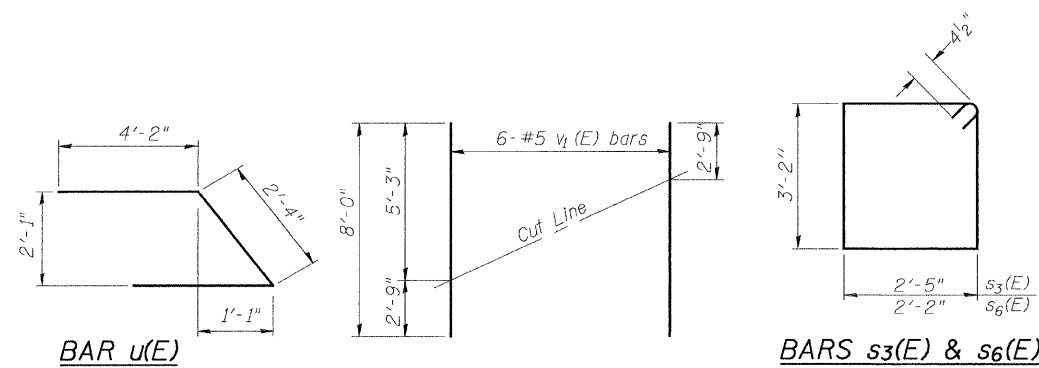
Reinforcement bars designated (E) shall be epoxy coated.  
Bars indicated thus 1 x 4 - #5 etc. indicates 1 line of bars with 4 lengths per line.

SUPERSTRUCTURE DETAILS  
FAS ROUTE 203 (MOLINE ROAD)  
OVER MEREDOSIA DITCH  
SECTION 11BR-1  
STA. 428+20.80  
WHITESIDE & ROCK ISLAND COUNTIES  
SN 098-0111

STATE OF ILLINOIS  
DEPARTMENT OF TRANSPORTATION

SHEET #7 OF 11 SHEETS		ROUTE NO.	SECTION	COUNTY	SHEET	NET
		FAS 203	11BR-1	WHITESIDE & ROCK ISLAND	18	43
		FED. ROAD DIST. NO. 3	ILLINOIS	FED. AID PROJECT-		

CONTRACT 64939



**BILL OF MATERIAL FOR WEST ABUTMENT**

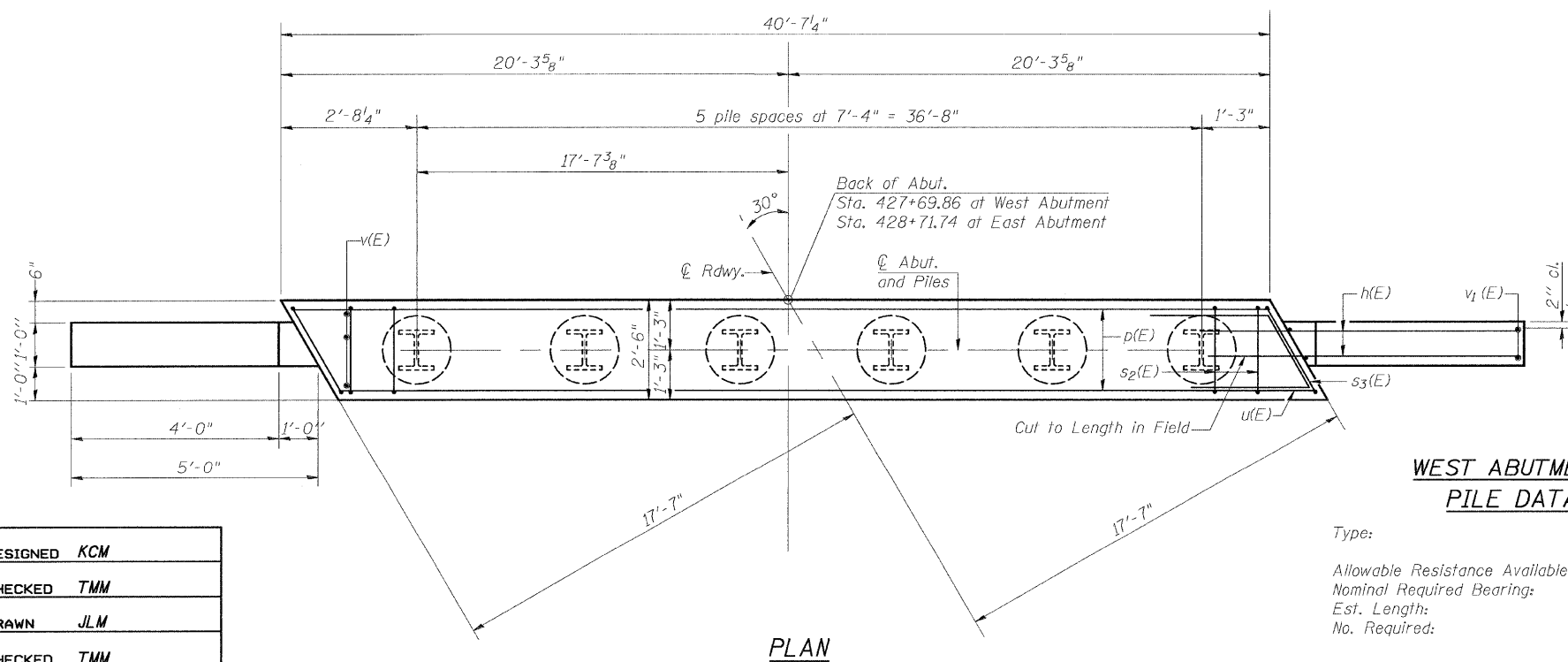
Bar	No.	Size	Length	Shape
h(E)	28	#4	7'-5"	—
p(E)	7	#7	40'-3"	—
s <sub>3</sub> (E)	2	#4	11'-11"	□
s <sub>6</sub> (E)	39	#4	11'-5"	□
u(E)	8	#6	10'-8"	∟
v(E)	119	#5	2'-9"	—
v <sub>1</sub> (E)	12	#5	8'-0"	—
Structure Excavation		Cu. Yd.	45.5	
Concrete Structures		Cu. Yd.	14.7	
Reinforcement Bars, Epoxy Coated		Pound	1610	
Furnishing Steel Piles HP 8x36		Foot	365	
Driving Piles		Foot	365	
Test Pile Steel HP 8x36		Each	1	
Pile Shoes		Each	6	

**BILL OF MATERIAL FOR EAST ABUTMENT**

Bar	No.	Size	Length	Shape
h(E)	28	#4	7'-5"	—
p(E)	7	#7	40'-3"	—
s <sub>3</sub> (E)	2	#4	11'-11"	□
s <sub>6</sub> (E)	39	#4	11'-5"	□
u(E)	8	#6	10'-8"	∟
v(E)	119	#5	2'-9"	—
v <sub>1</sub> (E)	12	#5	8'-0"	—
Structure Excavation		Cu. Yd.	45.5	
Concrete Structures		Cu. Yd.	14.7	
Reinforcement Bars, Epoxy Coated		Pound	1610	
Furnishing Steel Piles HP 8x36		Foot	186	
Driving Piles		Foot	186	
Pile Shoes		Each	6	

Reinforcement Bars designated (E) shall be epoxy coated.

Reinforcement Bars designated (E) shall be epoxy coated.



**WEST ABUTMENT PILE DATA**

Type: HP 8 x 36 w/ Pile Shoes  
Allowable Resistance Available: 92 Kips  
Nominal Required Bearing: 286 Kips  
Est. Length: 73 ft.  
No. Required: 5 + 1 Test Pile

**EAST ABUTMENT PILE DATA**

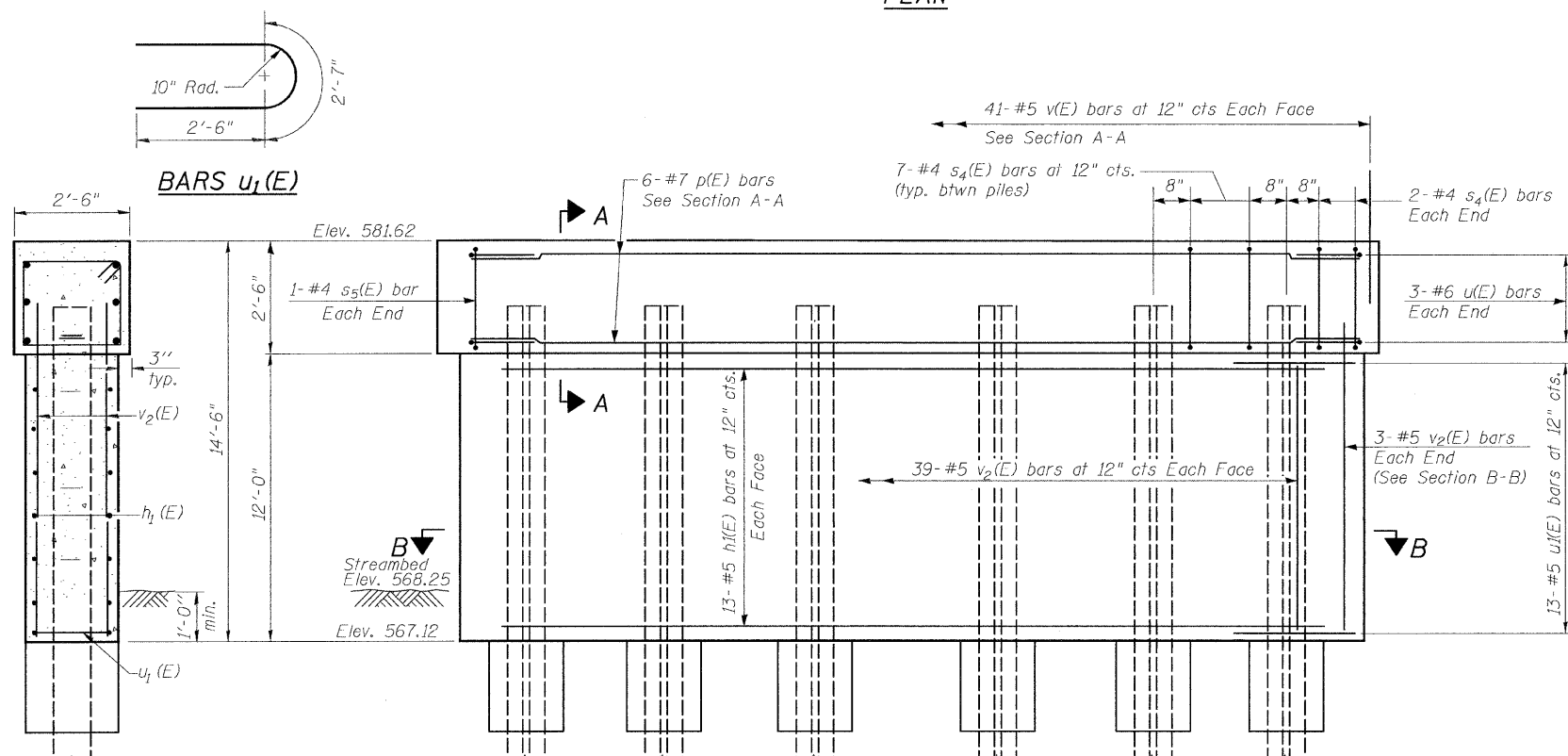
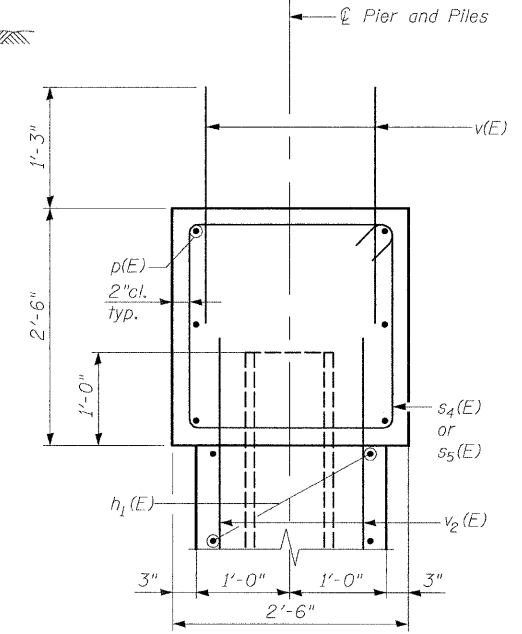
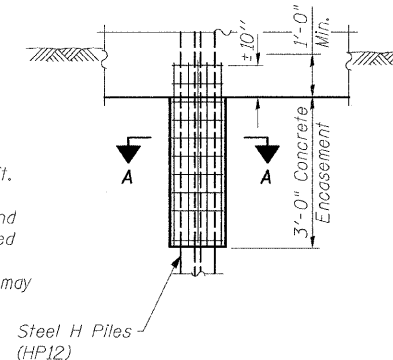
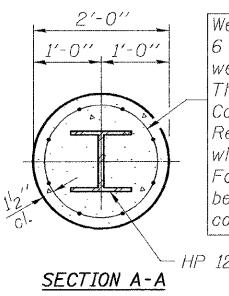
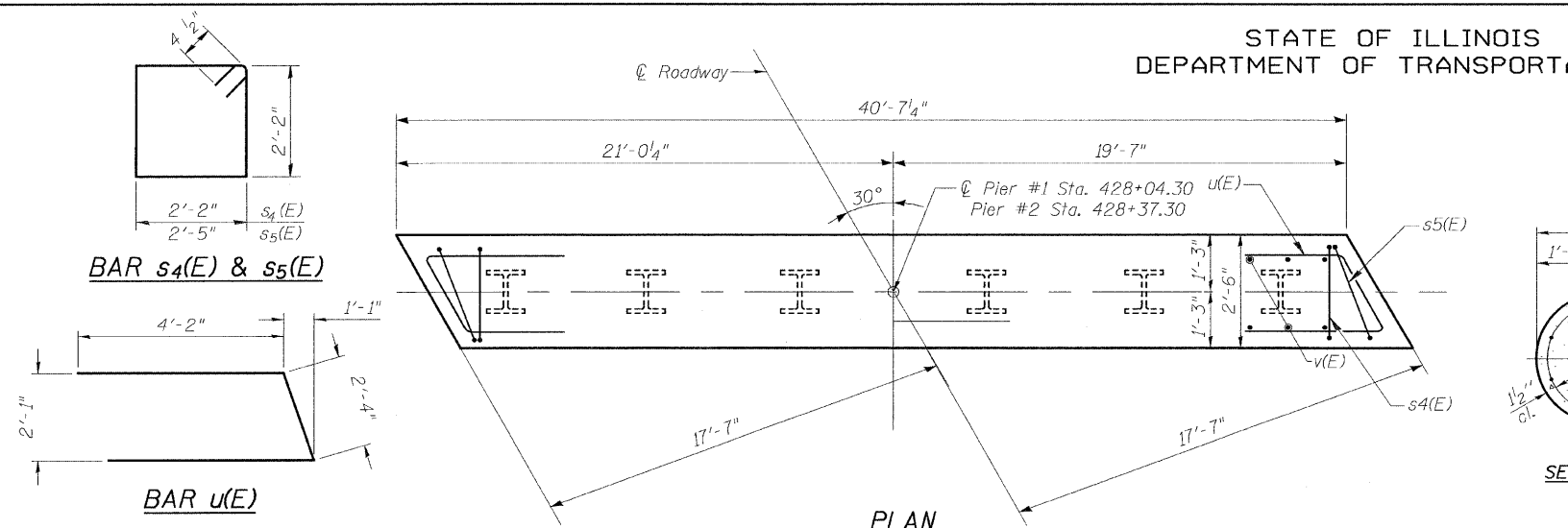
Type: HP 8 x 36 w/ Pile Shoes  
Allowable Resistance Available: 92 Kips  
Nominal Required Bearing: 286 Kips  
Est. Length: 31 ft.  
No. Required: 6

**PILE BENT ABUTMENT**  
FAS ROUTE 203 (MOLINE ROAD)  
OVER MEREDOSIA DITCH  
SECTION 11BR-1  
STA. 428+20.80  
WHITESIDE & ROCK ISLAND COUNTIES  
SN 098-0111

DESIGNED	KCM
CHECKED	TMM
DRAWN	JLM
CHECKED	TMM

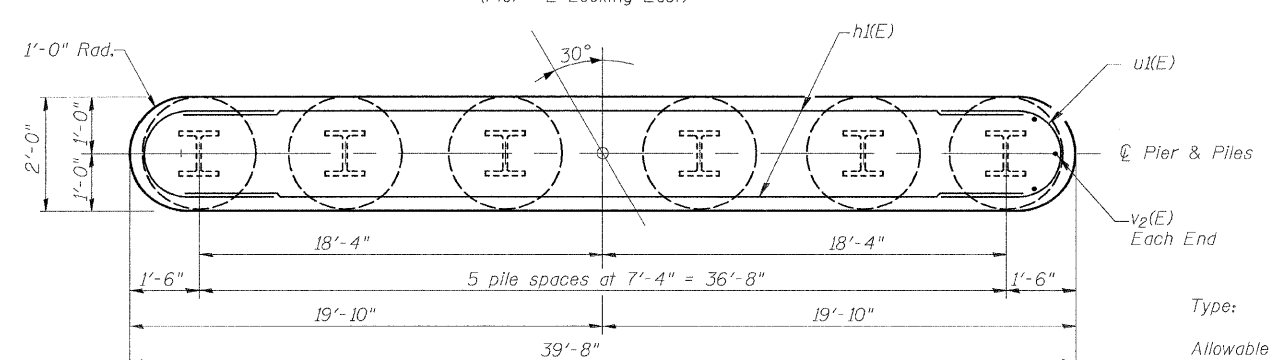
STATE OF ILLINOIS  
DEPARTMENT OF TRANSPORTATION

SHEET #8 OF 11 SHEETS		ROUTE NO.	SECTION	COUNTY	DATE	HEET
		FAS 203	11BR-1	WHITESIDE & ROCK ISLAND	19	43
		FED. ROAD DIST. NO. 3	ILLINOIS FED. AID PROJECT-		CONTRACT 64939	



END VIEW

ELEVATION  
(Pier #1 Looking East)  
(Pier #2 Looking East)



SECTION B-B

PIER 1  
PILE DATA

Type: HP 12 x 53 w/ Pile Shoes  
Allowable Resistance Available: 136 Kips  
Nominal Required Bearing: 418 Kips  
Est. Length: 69 ft.  
No. Required: 5 + 1 Test Pile

PIER 2  
PILE DATA

Type: HP 12 x 53 w/ Pile Shoes  
Allowable Resistance Available: 136 Kips  
Nominal Required Bearing: 418 Kips  
Est. Length: 32 ft.  
No. Required: 6

BILL OF MATERIAL FOR PIER 1

Bar	No.	Size	Length	Shape
h <sub>1</sub> (E)	26	#5	37'-8"	—
p (E)	6	#7	40'-3"	—
s <sub>4</sub> (E)	39	#4	9'-5"	□
s <sub>5</sub> (E)	2	#4	9'-11"	□
u (E)	6	#6	10'-8"	⌢
u <sub>1</sub> (E)	26	#5	7'-7"	⌢
v (E)	82	#5	2'-9"	—
v <sub>2</sub> (E)	84	#5	13'-4"	—
Structure Excavation		Cu. Yd.	9.5	
Concrete Structures		Cu. Yd.	44.3	
Reinforcement Bars, Epoxy Coated		Pound	3480	
Furnishing Steel Piles HP 12x53		Foot	345	
Driving Piles		Foot	345	
Test Pile Steel HP 12x53		Each	1	
Pile Shoes		Each	6	
Underwater Structure Excavation Protection		Each	1	

Reinforcement Bars designated (E) shall be epoxy coated

BILL OF MATERIAL FOR PIER 2

Bar	No.	Size	Length	Shape
h <sub>1</sub> (E)	26	#5	37'-8"	—
p (E)	6	#7	40'-3"	—
s <sub>4</sub> (E)	39	#4	9'-5"	□
s <sub>5</sub> (E)	2	#4	9'-11"	□
u (E)	6	#6	10'-8"	⌢
u <sub>1</sub> (E)	26	#5	7'-7"	⌢
v (E)	82	#5	2'-9"	—
v <sub>2</sub> (E)	84	#5	13'-4"	—
Structure Excavation		Cu. Yd.	9.5	
Concrete Structures		Cu. Yd.	44.3	
Reinforcement Bars, Epoxy Coated		Pound	3480	
Furnishing Steel Piles HP 12x53		Foot	192	
Driving Piles		Foot	192	
Pile Shoes		Each	6	
Underwater Structure Excavation Protection		Each	1	

Reinforcement Bars designated (E) shall be epoxy coated

PILE BENT PIER  
FAS ROUTE 203 (MOLINE ROAD)  
OVER MEREDOSIA DITCH  
SECTION 11BR-1  
STA. 428+20.80  
WHITESIDE & ROCK ISLAND COUNTIES  
SN 098-0111

DESIGNED	KCM
CHECKED	TMM
DRAWN	JLM
CHECKED	TMM

STATE OF ILLINOIS  
DEPARTMENT OF TRANSPORTATION

SHEET #9 OF  
11 SHEETS

ROUTE NO.	SECTION	COUNTY	STATION	SHEET
FAS 203	11BR-1	WHITESIDE & ROCK ISLAND	20	43
FED. ROAD DIST. NO. 3		ILLINOIS FED. AID PROJECT-		CONTRACT 64939

**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 Size to be Spliced	Splicer Rod or Dowel Bar Length	Strength Requirements	
		Min. Capacity kips - tension	Min. Pull-Out Strength kips - tension
#4	1'-8"	14.7	7.9
#5	2'-0"	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

The diameter of this part is equal or larger than the diameter of bar spliced.

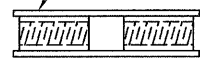
The diameter of this part is the same as the diameter of the bar spliced.

**ROLLED THREAD DOWEL BAR**



**\*\* ONE PIECE**

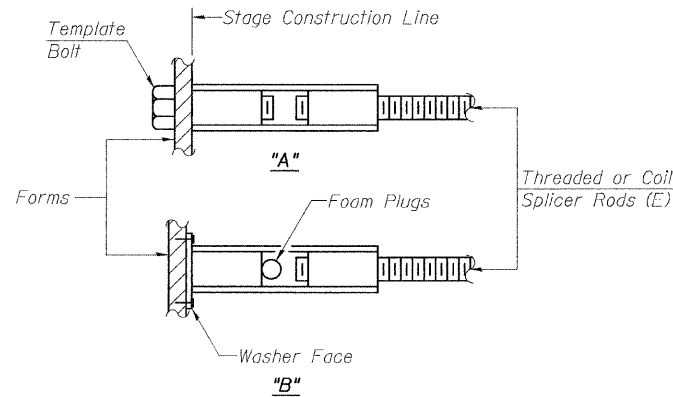
Wire Connector



**WELDED SECTIONS**

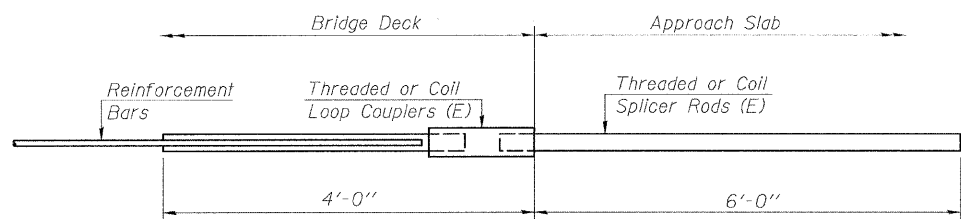
**BAR SPLICER ASSEMBLY ALTERNATIVES**

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



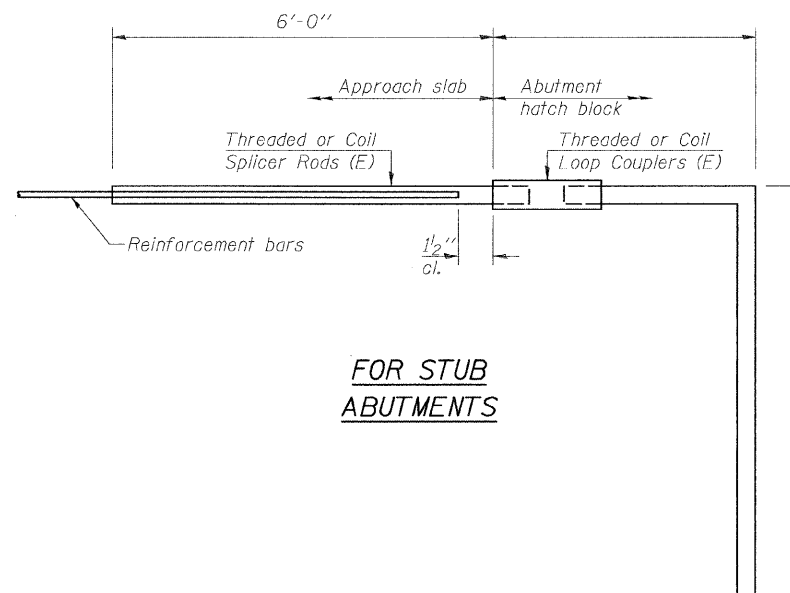
**INSTALLATION AND SETTING METHODS**

"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.



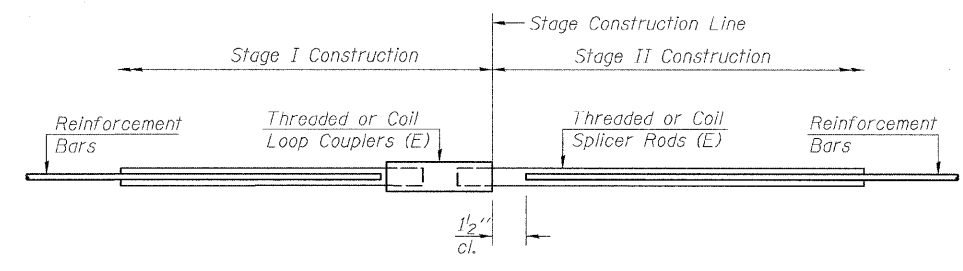
**FOR INTEGRAL OR SEMI-INTEGRAL ABUTMENTS**

Bar Splicer for #5 bar
Min. Capacity = 23.0 kips - tension
Min. Pull-out Strength = 12.3 kips - tension
No. Required = 66



**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

**BAR SPLICER ASSEMBLY DETAILS**  
FAS ROUTE 203 (MOLINE ROAD)  
OVER MEREDOSIA DITCH  
SECTION 11BR-1  
STA. 428+20.80  
WHITESIDE & ROCK ISLAND COUNTIES  
SN 098-0111

DESIGNED	KCM
CHECKED	TMM
DRAWN	JLM
CHECKED	TMM

BSD-1 11-1-06

STATE OF ILLINOIS  
DEPARTMENT OF TRANSPORTATION

SHEET #10 OF  
11 SHEETS

ROUTE NO.	SECTION	COUNTY	FED. AID DIST. NO.	SHEET NO.
FAS 203	11BR-1	WHITESIDE & ROCK ISLAND	21	43
FED. ROAD DIST. NO. 3		ILLINOIS	FED. AID PROJECT-	

CONTRACT #64939

Illinois Department of Transportation  
Division of Highways 1001

**SOIL BORING LOG** Page 1 of 2

Date 1/8/04

ROUTE Old Moline Road DESCRIPTION P92-090-03 Old Moline Road over Meredosia Ditch, east of Hillsdale Bridge LOGGED BY W. Garza

SECTION Erie Twp. - NW, SEC. 21, TWP. 19N, RNG. 3E

COUNTY Whiteside DRILLING METHOD Hollow Stem Auger HAMMER TYPE B-45

STRUCT. NO. Station	D E P T H S	B L O C K S	U N I T S	M O D E S	Surface Water Elev. Stream Bed Elev.	D E P T H S	B L O C K S	U N I T S	M O D E S	Groundwater Elev.: First Encounter Upon Completion	Wash ft	Hrs.	(ft)	(/6")	(1st)	(%)
977+01					Ice					84.0						
B-1 9764+45																
18.00ft RI CL																
98.5																
MEDIUM brown SILTY CLAY LOAM																
96.50																
STIFF gray SILTY LOAM																
95.00																
STIFF gray SILTY CLAY LOAM																
92.50																
MEDIUM gray dark SILTY CLAY LOAM with SAND lens with 8% ORGANICS																
90.00																
MEDIUM dark gray SILTY CLAY LOAM with SAND lens and ORGANICS																
87.50																
SOFT gray SILTY CLAY with ORGANICS																
84.50																
LOOSE gray clean SAND																
82.50																
LOOSE gray clean fine SAND																
80.00																

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 1001

**SOIL BORING LOG** Page 2 of 2

Date 1/8/04

ROUTE Old Moline Road DESCRIPTION P92-090-03 Old Moline Road over Meredosia Ditch, east of Hillsdale Bridge LOGGED BY W. Garza

SECTION Erie Twp. - NW, SEC. 21, TWP. 19N, RNG. 3E

COUNTY Whiteside DRILLING METHOD Hollow Stem Auger HAMMER TYPE B-45

STRUCT. NO. Station	D E P T H S	B L O C K S	U N I T S	M O D E S	Surface Water Elev. Stream Bed Elev.	D E P T H S	B L O C K S	U N I T S	M O D E S	Groundwater Elev.: First Encounter Upon Completion	Wash ft	Hrs.	(ft)	(/6")	(1st)	(%)
977+01					Ice					84.0						
B-1 9764+45																
18.00ft RI CL																
98.5																
LIMESTONE																
53" Recovery																
4 pieces over 4" long																
88% Recover 27/60																
24 min. (continued)																
54.00																
LIMESTONE																
full recovery																
1 piece over 4" long																
100% 6/60																
30 min.																
48.00																
End of Boring																

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 1001

**SOIL BORING LOG** Page 1 of 2

Date 1/9/04

ROUTE Old Moline Road DESCRIPTION P92-090-03 Old Moline Road over Meredosia Ditch, east of Hillsdale Bridge LOGGED BY W. Garza

SECTION Erie Twp. - NW, SEC. 21, TWP. 19N, RNG. 3E

COUNTY Whiteside DRILLING METHOD Hollow Stem Auger HAMMER TYPE B-45

STRUCT. NO. Station	D E P T H S	B L O C K S	U N I T S	M O D E S	Surface Water Elev. Stream Bed Elev.	D E P T H S	B L O C K S	U N I T S	M O D E S	Groundwater Elev.: First Encounter Upon Completion	Wash ft	Hrs.	(ft)	(/6")	(1st)	(%)
977+21					11.0					85.3						
B-2 978+00					12.0											
6.00ft LI CL																
98.8																
12" Asphalt & Concrete																
STIFF gray SILTY CLAY LOAM																
96.80																
STIFF gray SILTY CLAY LOAM																
95.30																
STIFF dark gray SILTY CLAY LOAM																
92.80																
MEDIUM gray SILTY CLAY LOAM																
90.30																
SOFT gray SILTY CLAY with ORGANICS																
87.80																
MEDIUM dark gray SILTY LOAM with SAND lens and 17% ORGANICS																
84.80																
VERY LOOSE gray dirty fine SAND																
82.80																
LOOSE gray dirty fine SAND																
80.30																
LOOSE gray medium clean SAND																

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)

DESIGNED	KCM
CHECKED	TMM
DRAWN	JLM
CHECKED	TMM


**BORING LOGS**  
FAS ROUTE 203 (MOLINE ROAD)  
OVER MEREDOSIA DITCH  
SECTION 11BR-1  
STA. 428+20.80  
WHITESIDE & ROCK ISLAND COUNTIES  
SN 098-0111

STATE OF ILLINOIS  
DEPARTMENT OF TRANSPORTATION

SHEET #11 OF  
11 SHEETS

ROUTE NO.	SECTION	COUNTY	SHEET NO.	TOTAL SHEETS
FAS 203	11BR-1	WHITESIDE & ROCK ISLAND	22	43
FED. ROAD DIST. NO. 3		ILLINOIS	FED. AID PROJECT-	

CONTRACT #64939



Illinois Department  
of Transportation  
Division of Highways  
DOT

### SOIL BORING LOG

Page 2 of 2

Date 1/9/04

ROUTE Old Moline Road DESCRIPTION P92-090-03 Old Moline Road over Meredosia Ditch, east of Hillsdale Bridge LOGGED BY W. Gorzo

SECTION Erie Twp. -- NW, SEC. 21, TWP. 19N, RNG. 3E

COUNTY Whiteside DRILLING METHOD Hollow Stem Auger HAMMER TYPE B-45

STRUCT. NO. Station	BORING NO. Station	Offset	Ground Surface Elev.	SOIL TEST				Groundwater Elev.	First Encounter	Upon Completion	After	Hrs.
				D	B	U	M					
			98.8	(ft)	(/6")	(1st)	(%)	11.0				
								17.0				
								83.5				
Wash			57.80									
MEDIUM gray SAND & GRAVEL (continued)												
Wash			55.30									
MEDIUM gray SAND & GRAVEL												
Wash			52.80									
MEDIUM gray clean medium SAND												
Wash			50.30									
DENSE gray clean medium coarse SAND												
Wash			47.80									
MEDIUM Same as above												
Wash			42.80									
VERY DENSE tan weathered LIMESTONE with top CLAY lens												
Wash			40.30									
MEDIUM tan weathered LIMESTONE with SAND												

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, form 137 (Rev. 8-99)

DESIGNED	KCM
CHECKED	TMM
DRAWN	JLM
CHECKED	TMM

**BORING LOGS**  
FAS ROUTE 203 (MOLINE ROAD)  
OVER MEREDOSIA DITCH  
SECTION 11BR-1  
STA. 428+20.80  
WHITESIDE & ROCK ISLAND COUNTIES  
SN 098-0111

**STATE OF ILLINOIS**  
**DEPARTMENT OF PUBLIC WORKS AND BUILDINGS**  
**DIVISION OF HIGHWAYS**  
**PLANS FOR PROPOSED**  
**STATE BOND ISSUE HIGHWAY**

SET 2 OF 4 SETS

SHEET 23 OF 43

FOR INFORMATION ONLY

INDEX OF SHEETS

- 1 TITLE SHEET
- 2 TYPICAL SECTIONS, SUMMARY OF QUANTITIES, GENERAL NOTES & SCHEDULE OF QUANTITIES
- 3 PLAN & PROFILE
- 4 GENERAL PLAN & ELEVATION
- 5 APPROACH DETAILS
- 6 SUPER STRUCTURE
- 7 TYPE W STEEL RAILING
- 8 ABUTMENTS
- 9 CROSS SECTIONS (TEMPORARY RUNAROUND)

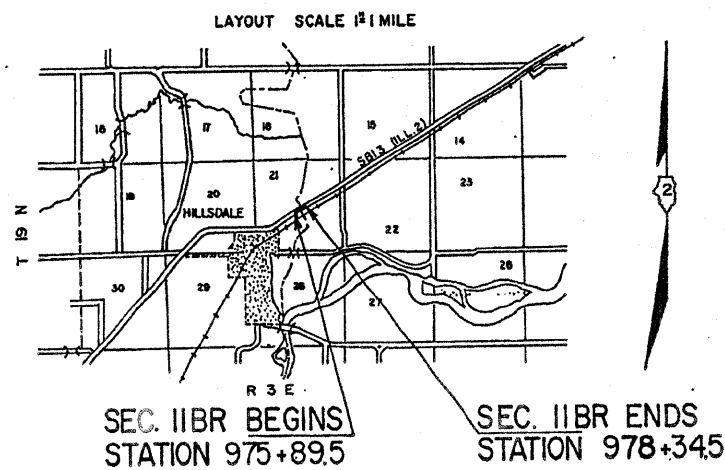
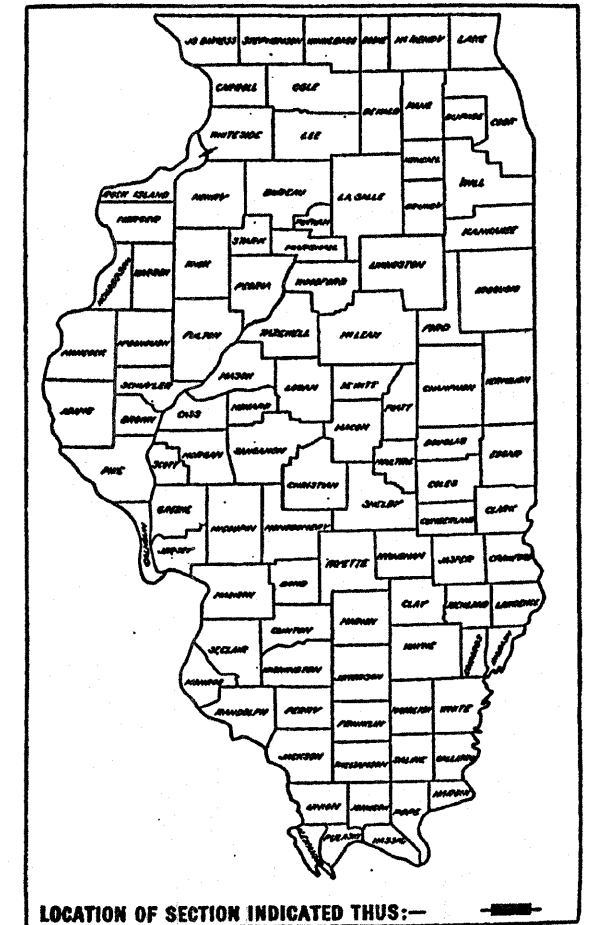
- STD. 2115-3 PAVEMENT FABRIC
- STD. 2230-3 STEEL PLATE BEAM GUARD RAIL
- STD. 2231-3 TYPICAL APPLICATION OF STEEL PLATE BEAM GUARD RAIL
- STD. 2298-1 APPLICATION OF TRAFFIC CONTROL DEVICES
- STD. 2299-1 DESIGN OF TRAFFIC CONTROL DEVICES
- STD. 2300 FLAGMAN TRAFFIC CONTROL SIGN
- STD. 2303-1 APPLICATION OF TRAFFIC CONTROL DEVICES
- STD. 2310-1 APPLICATION OF TRAFFIC CONTROL DEVICES
- STD. 2239-3 BITUMINOUS SHOULDER

ABOVE STANDARDS ARE INCLUDED AFTER SHEET 32 OF SET 4

SCALES

PLAN	1 INCH	30 FT.
PROFILE, HOR.	1 INCH	50 FT.
PROFILE, VERT.	1 INCH	10 FT.
CROSS-SECTIONS	1 INCH	8 FT.

**SBI ROUTE 3**  
**SEC 11BR**  
**WHITESIDE COUNTY**



SECTION 11 BR INCLUDES THE REMOVAL OF THE EXISTING SUPERSTRUCTURE AND PORTIONS OF THE SUBSTRUCTURE AND REPLACEMENT WITH A PRECAST PRESTRESSED DECK BEAM BRIDGE OVER MEREDOSIA SLOUGH. ALSO INCLUDED IS CONSTRUCTION OF A TEMPORARY BRIDGE AND RUNAROUND AND ALL OTHER WORK THAT IS NECESSARY TO COMPLETE THE SECTION.

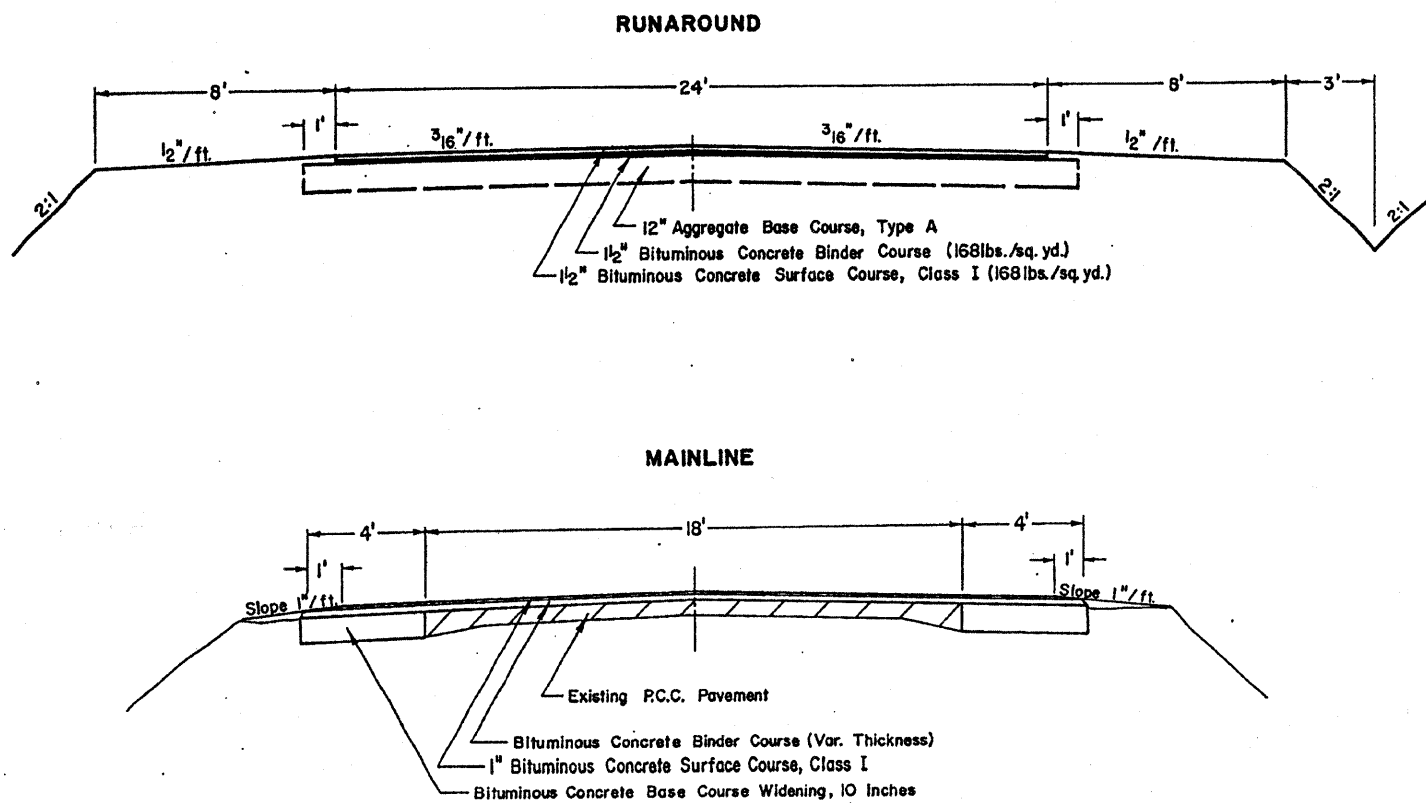
GROSS LENGTH OF SECTION 245.0 FT.=.046 MILES  
 NET LENGTH OF SECTION 245.0 FT.=.046 MILES

STATE OF ILLINOIS DEPARTMENT OF PUBLIC WORKS AND BUILDINGS DIVISION OF HIGHWAYS	
SUBMITTED	March 30, 1970
EXAMINED	April 16, 1970
PASSED	April 16, 1970
APPROVED	April 16, 1970
APPROVED	April 16, 1970
APPROVED	April 16, 1970
DIRECTOR	

# TYPICAL SECTIONS

# GENERAL NOTES

FOR INFORMATION ONLY



ENTIRE SECTION INSPECTED AND APPROVED AS TO POLICY  
 DATE March 29, 1970  
 DISTRICT ENGINEER D.E. Summitt

THE CONTRACTOR SHALL ERECT BARRICADES CONFORMING TO STANDARD 2298. AT LOCATIONS AS DIRECTED BY THE ENGINEER

THE BRIDGE WEARING SURFACE CONSISTING OF 2" BITUMINOUS CONCRETE SURFACE COURSE, CLASS I SHALL BE PLACED IN TWO 1" LIFTS

THE CONTRACTOR SHALL PROTECT AND CAREFULLY PRESERVE ALL PROPERTY MARKERS UNTIL THE OWNER, AN AUTHORIZED SURVEYOR OR AGENT HAS WITNESSED OR OTHERWISE REFERENCED THEIR LOCATION

# SUMMARY OF QUANTITIES

CODE	PAY ITEM	UNIT	QUANTITY
201005	TREE REMOVAL ACRES	ACRE	0.4
202001	EARTH EXCAVATION	CU. YD.	1425
202004	EARTH EXCAVATION WIDENING	CU. YD.	26
204001	BORROW EXCAVATION	CU. YD.	2012
301001	AGGREGATE BASE COURSE TYPE A	TON	275
306002	BITUMINOUS CONCRETE BASE COURSE WIDENING 10 INCH	SQ. YD.	189
406002	BITUMINOUS MATERIALS PRIME COAT	TON	1.95
406007	BITUMINOUS CONCRETE BINDER COURSE	TON	182
406008	BITUMINOUS CONCRETE SURFACE COURSE CLASS I	TON	182
408005	PORTLAND CEMENT CONCRETE PAVEMENT 10"	SQ. YD.	33.5
408013	PAVEMENT FABRIC	SQ. YD.	33.5
501015	REMOVAL OF EXISTING SUPER-STRUCTURE	EACH	1
501022	CONCRETE REMOVAL	CU. YD.	10.04
501026	EXPANSION BOLTS 3/4 INCH	EACH	104
504003	CLASS X CONCRETE	CU. YD.	29.8
505001	PRECAST CONCRETE BRIDGE SLAB	SQ. FT.	299
505005	PRECAST PRESTRESSED CONCRETE DECK BEAMS(21"DEPTH)	SQ. FT.	1556
508012	STEEL RAILING TYPE W	LIN. FT.	163
512001	REINFORCEMENT BARS	POUND	418.7
620026	PAVEMENT REMOVAL AND PORTLAND CEMENT CONCRETE REPLACEMENT TYPE II-10"	SQ. YD.	11.65
628001	STEEL PLATE BEAM GUARD RAIL SINGLE RAIL	LIN. FT.	279
636007	STOCK-PILING SALVAGED AGGREGATE	CU. YD.	258
638001	TEMPORARY BRIDGE COMPLETE	EACH	1
646002	ENGINEER'S FIELD OFFICE, TYPE B	EACH	1
210178	COAL TAR INTER LAYER PROTECTIVE COAT	SQ. YD.	173
XZ1016	TRAFFIC CONTROL AND PROTECTION, STANDARD 2310	EACH	1

# SCHEDULE OF QUANTITIES

<b>TREE REMOVAL ACRES</b>	<b>ACRES</b>	<b>BITUMINOUS CONCRETE BINDER COURSE</b>	<b>TON</b>
Entire Section	0.4	Sta 10+00-12+95 (Temporary Runaround)	42
<b>EARTH EXCAVATION</b>	<b>CU. YD.</b>	13+80-16+88.64 (Temporary Runaround)	45
Stage I (Temporary Runaround)	194	975+37.3-976+87.3	28
Stage II (Removal of Runaround)	1235	977+38.7-978+66.7	28
<b>TOTAL</b>	<b>1429 Cu.Yd.</b>	<b>BITUMINOUS CONCRETE SURFACE COURSE CLASS I</b>	<b>TON</b>
<b>EARTH EXCAVATION (WIDENING)</b>	<b>CU. YD.</b>	Sta 975+27.3-976+86.5	68
Sta L&R 975+87.3-976+87.3	26	10+00-12+95 (Temporary Runaround)	42
L&R 977+36.7-978+36.7	26	13+80-16+88.64 (Temporary Runaround)	45
<b>TOTAL</b>	<b>52 Cu.Yd.</b>	<b>TOTAL</b>	<b>155 Ton</b>
<b>BORROW EXCAVATION</b>	<b>CU. YD.</b>	<b>STEEL PLATE BEAM GUARD RAIL SINGLE RAIL</b>	<b>LIN. FT.</b>
Stage I (Temporary Runaround)	2012	Sta 975+87-976+87	200
		977+37-978+37	200
<b>AGGREGATE BASE COURSE, TYPE A</b>	<b>TON</b>	<b>TOTAL</b>	<b>400 Lin Ft</b>
Sta 10+00-12+95 (Temporary Runaround)	374	<b>STOCK-PILING SALVAGED AGGREGATE</b>	<b>CU. YD.</b>
Sta 13+80-16+88.64 (Temporary Runaround)	401	Entire Section	250
<b>TOTAL</b>	<b>775 Ton</b>	<b>ENGINEER'S FIELD OFFICE TYPE B</b>	<b>EACH</b>
<b>BITUMINOUS MATERIALS PRIME COAT</b>	<b>TON</b>	Entire Section	1
Sta 975+27.3-976+87.3	0.1	<b>TRAFFIC CONTROL AND PROTECTION STANDARD 2310</b>	<b>EACH</b>
977+36.7-978+66.7	0.1	Entire Section	1
10+00-12+95 (Temporary Runaround)	0.7		
13+80-16+88.64 (Temporary Runaround)	0.8		
<b>TOTAL</b>	<b>1.7 Ton</b>		
<b>BITUMINOUS CONCRETE BASE COURSE WIDENING 10"</b>	<b>SQ. YD.</b>		
Sta L&R 975+87.3-976+87.3	94.5		
L&R 977+36.7-978+36.7	94.5		
<b>TOTAL</b>	<b>189. Sq.Yd.</b>		

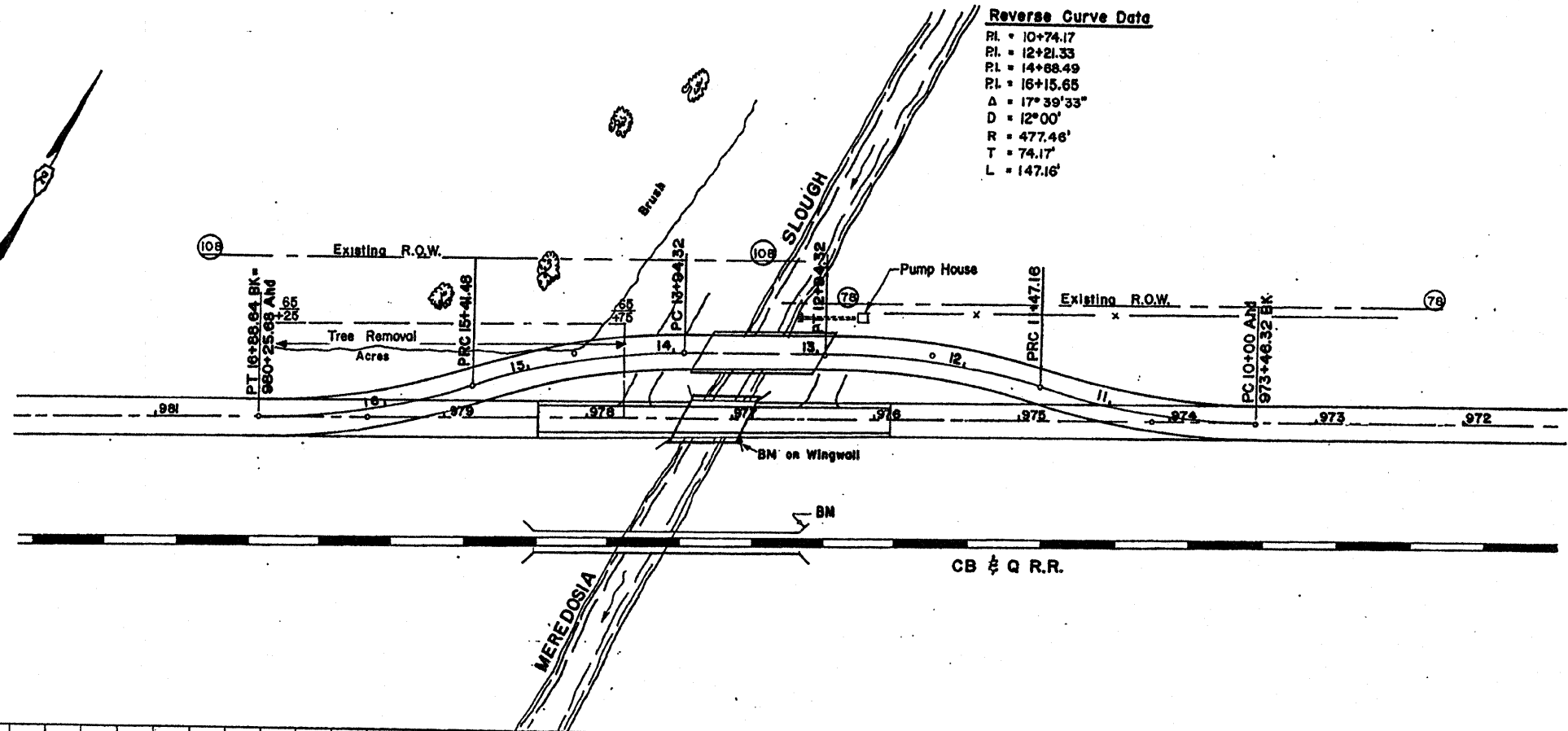
\* SEE SPECIAL PROVISIONS



BM Bolt N.E. end East Abut. RR. Bridge  
Sta. 976+60 Elev. 145.41

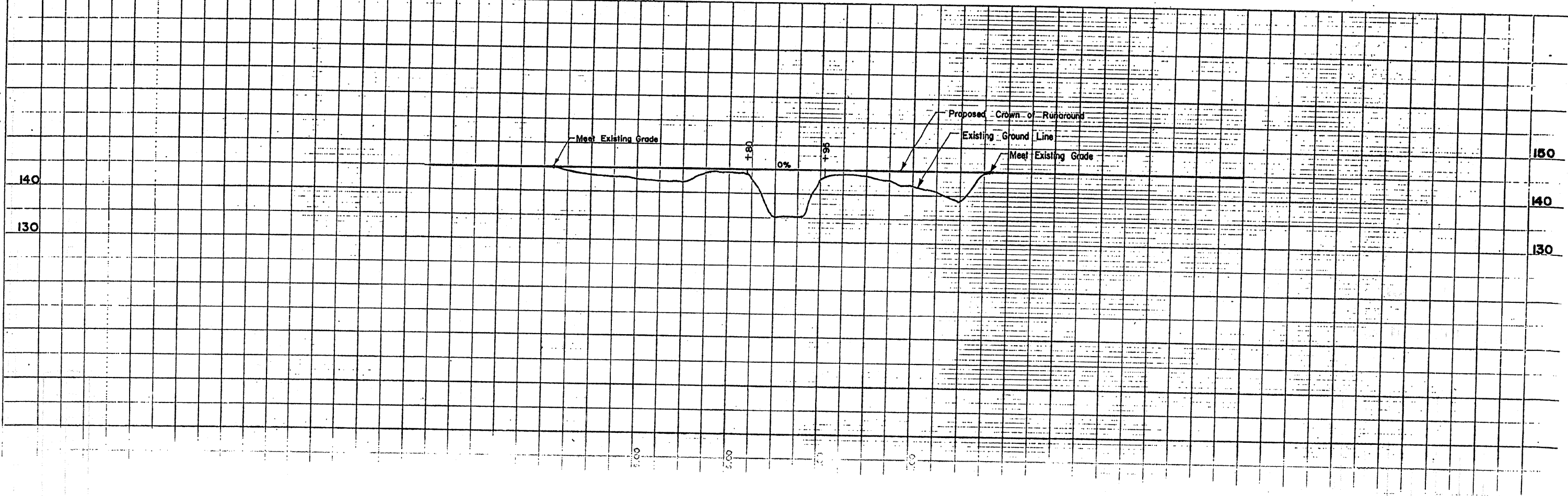
BM "D" ON S.E. WINGWALL  
STA. L 976+87 ELEV. 144.80

**Reverse Curve Data**  
 RL = 10+74.17  
 RL = 12+21.33  
 RL = 14+88.49  
 RL = 16+15.65  
 Δ = 17° 39' 33"  
 D = 12° 00'  
 R = 477.46'  
 T = 74.17'  
 L = 147.16'



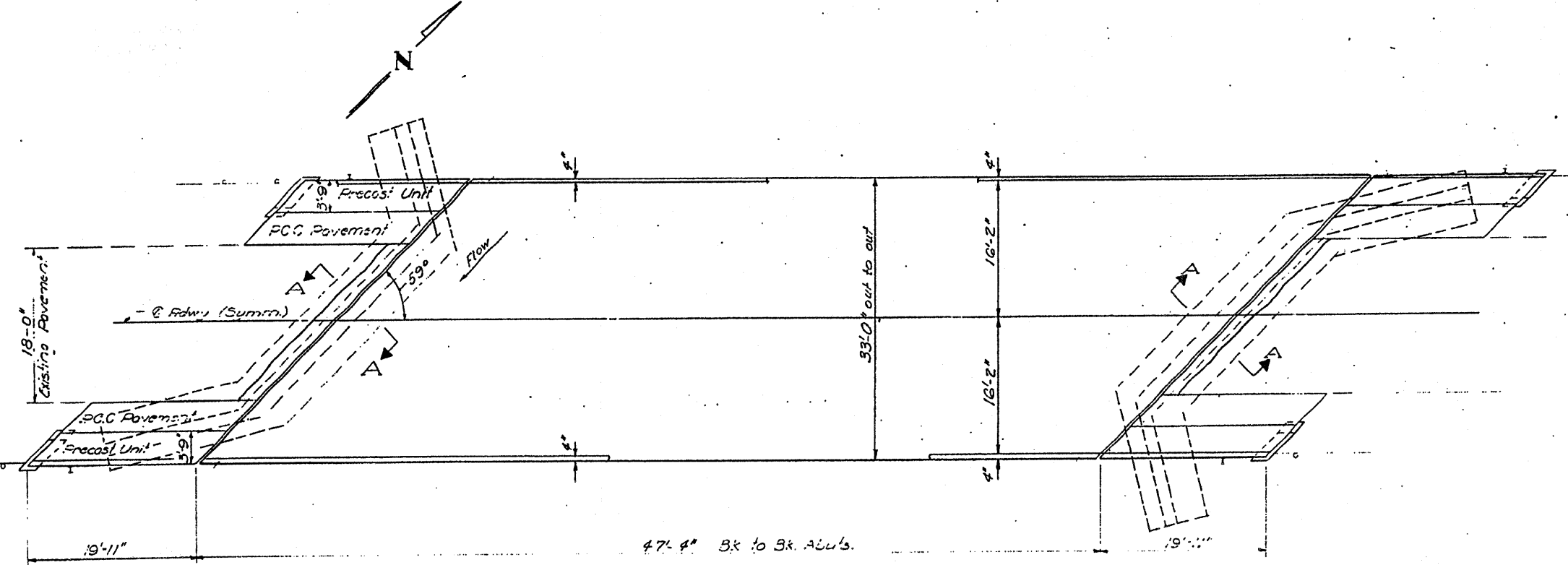
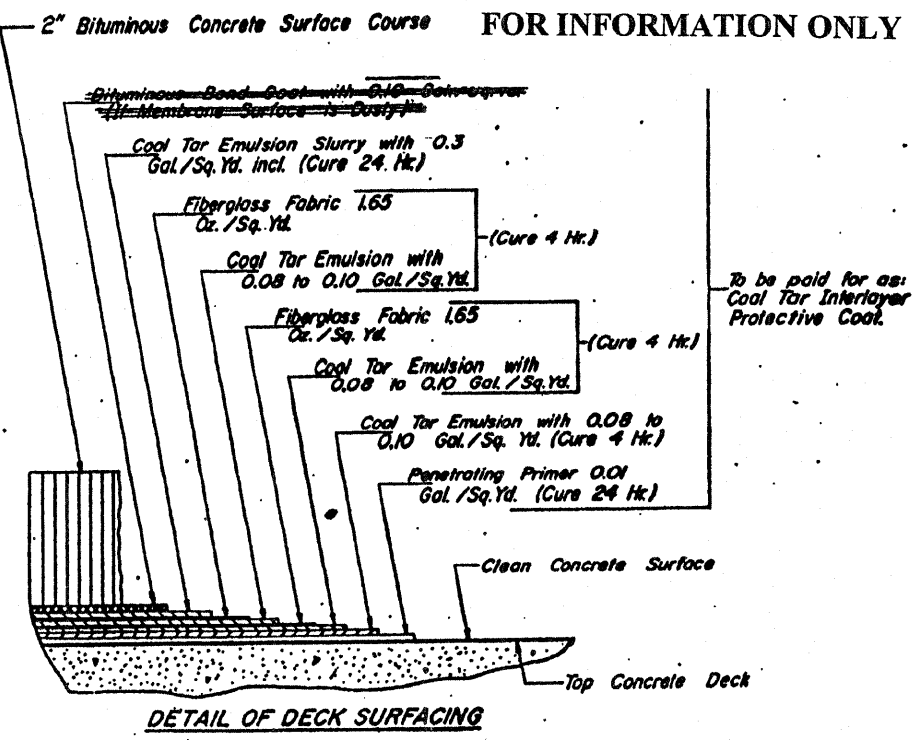
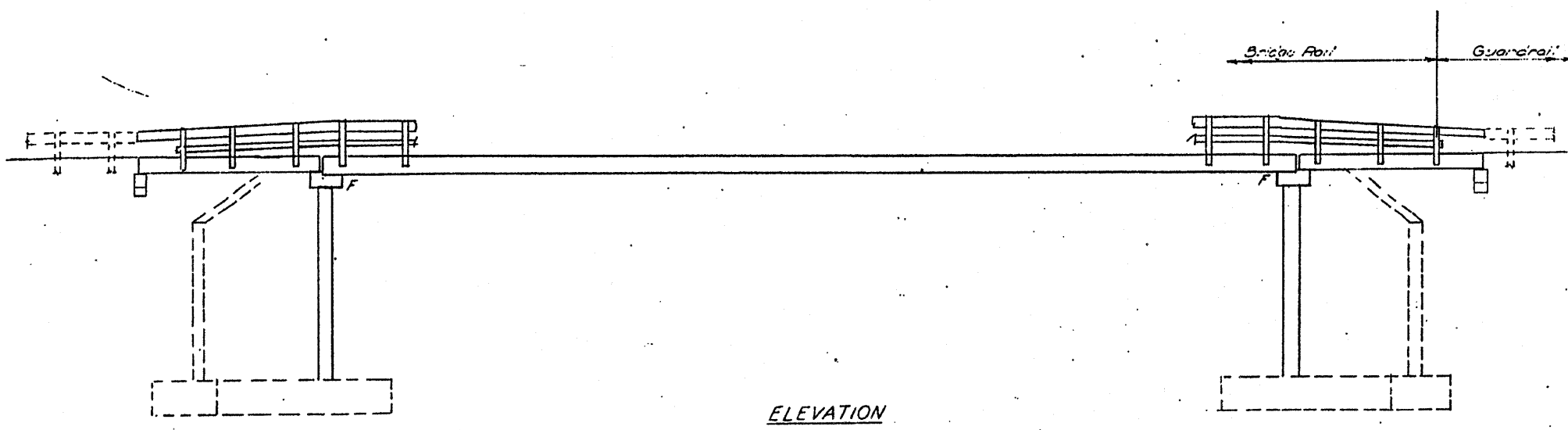
**PLAN**  
 SHEETS SHOWN  
 PLOTTED  
 DATE  
 BY

**PROFILE**  
 SHEETS SHOWN  
 PLOTTED  
 GRADES CHECKED  
 DATE  
 BY



Build as SBI-RT.3 Sec. II B Year Built 1970 Sta. 711+12  
 Existing Structure: RC Through Girder, 24L3" wide, 49'5" long  
 Temporary Bridge required ft. long ft. wide HS 15 loading  
 Remove exist. Superstructure, No Salvage

STATE OF ILLINOIS  
 DEPARTMENT OF PUBLIC WORKS & BUILDINGS  
 DIVISION OF HIGHWAYS



**GENERAL NOTES**

All reinforcement bars shall be lapped 24 diameters unless otherwise shown.

It shall be the responsibility of the Contractor to verify all dimensions and conditions existing in the field prior to construction and ordering of materials.

An alternate strand pattern using Extra High Strength Prestressing strand (270 ksi.) is permitted.

Expansion bolts shall consist of self drilling expansion shields and 3/4 hooked bolts. Hooked bolts shall extend a minimum of 12" into new concrete except as otherwise shown.

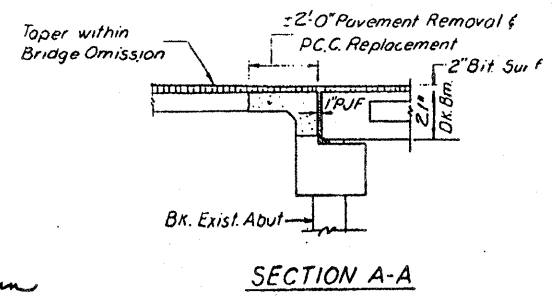
Any excavation shall be incidental to Bridge Contract.

Shoulder transition to wingwall shall be shaped with broken concrete. Cost incidental.

Limits of Coal Tar Interlayer Protective Coat shall be back to back of abutments and out to out of deck.

**TOTAL BILL OF MATERIAL**

Item	Unit	Super	Sub.	Total
Portland Cement Concrete Pavement (10')	Sq. Yds.	33		33
Pavement Fabric	Sq. Yds.	33		33
Concrete Removal	Cu Yds.		14	14
Expansion Bolts (3/4")	Each	48	56	104
Class X Concrete	Cu Yds.	1.9	23.8	25.7
Precast Concrete Bridge Slab	Sq. Ft.	299		299
Precast Prestressed Concrete Deck Beams (2/)	Sq. Ft.	1536		1536
Steel Rolling, Type W	Ltn. Ft.	163		163
Reinforcement Bars	Lbs.		4,130	4,130
Pavement Removal & P.C.C. Replacement, Type 2 (10')	Sq. Yds.	9		9
Removal of Existing Superstructures	Each	1		1
Coal Tar Interlayer Protective Coat	Sq. Yds.	173		173
Temporary Bridge Complete	Each			1



**DESIGN STRESSES**

FIELD UNITS      PRECAST PRESTR. UNITS

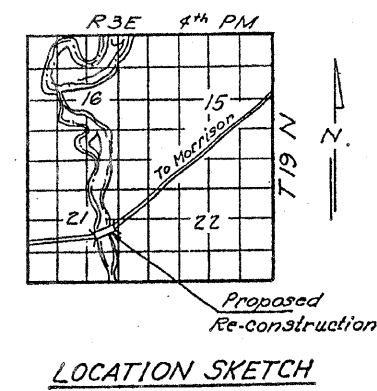
$f_c = 1400$  psi. (super)       $f'_c = 5000$  psi.

$f_c = 1000$  psi. (sub)       $f'_{ci} = 4000$  psi.

$f_s = 20,000$  psi. (reinf)       $f'_s = 248,000$  psi.

$V_c = 75$  psi. (footing)       $f_{si} = 173,600$  psi.

$n = 10$

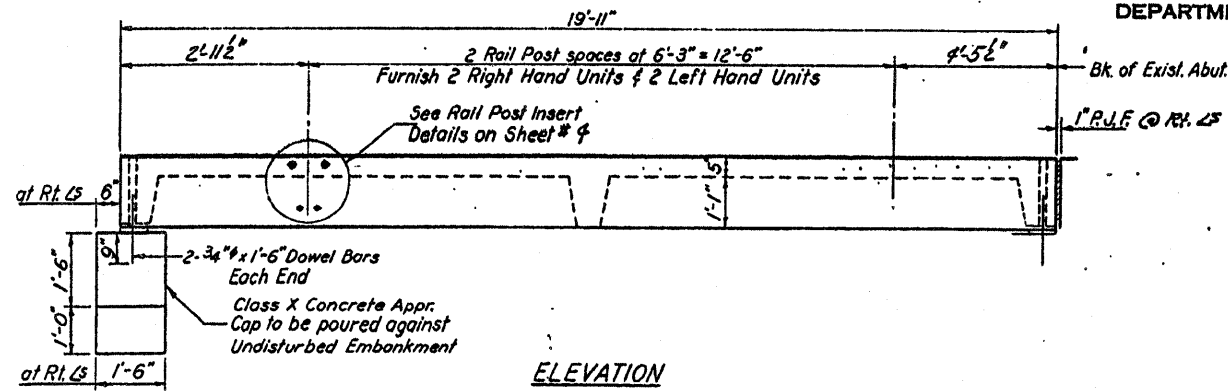


DESIGNED: Simon Metank  
 CHECKED: James Pence  
 DRAWN: Simon Metank  
 CHECKED: JP

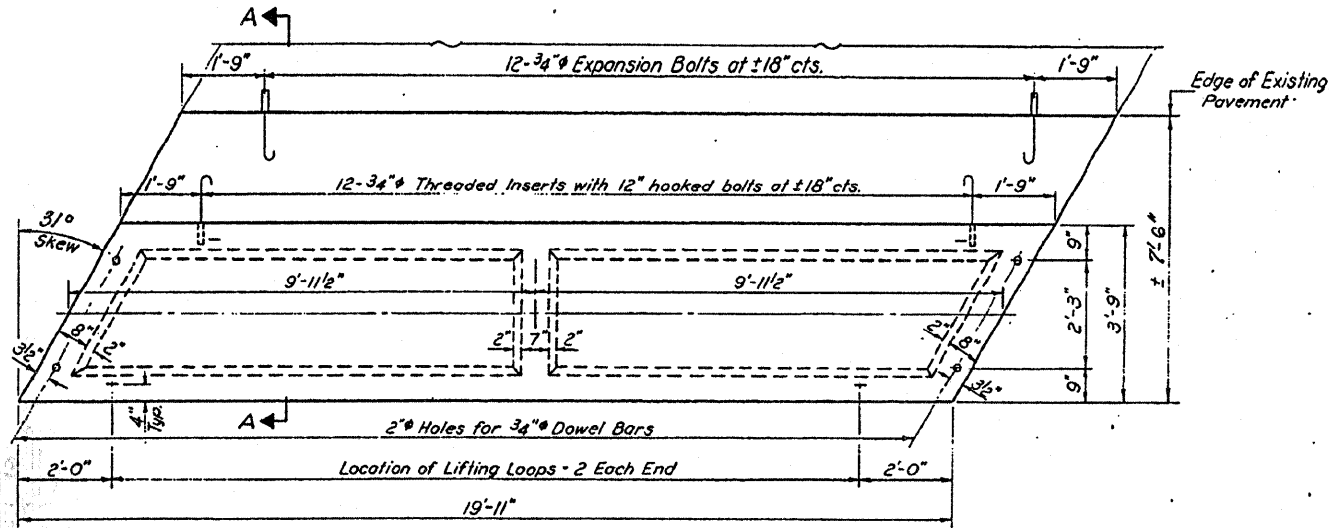
EXAMINED: FEBRUARY 26 1970  
 PASSED: W.G. Baumman  
 APPROVED: Richard L. Holterman

GENERAL PLAN & ELEVATION  
 S.B.I. RT. 3 OVER MEREDOSIA SLOUGH  
 S.B.I. RT. 3 SEC. II BR  
 WHITESIDE COUNTY  
 STA. 711+12

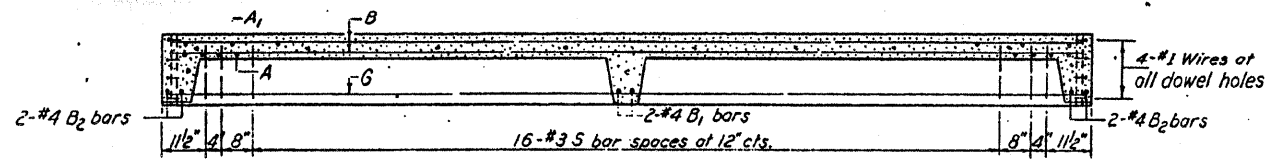
LOADING HS 20-44



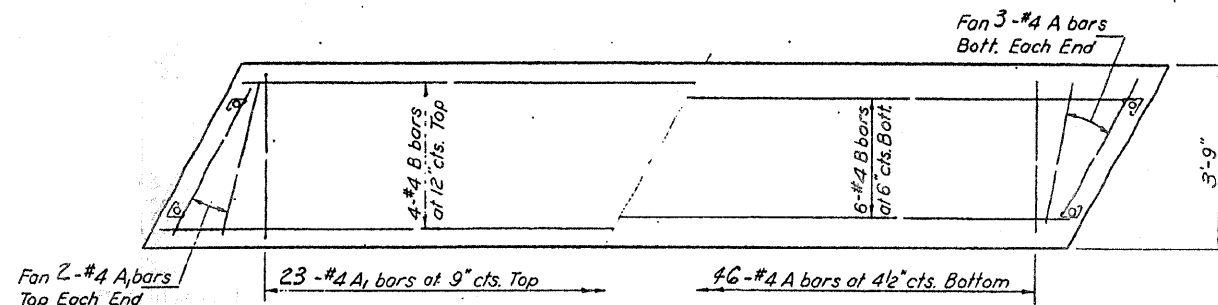
ELEVATION



PARTIAL PLAN OF APPROACH

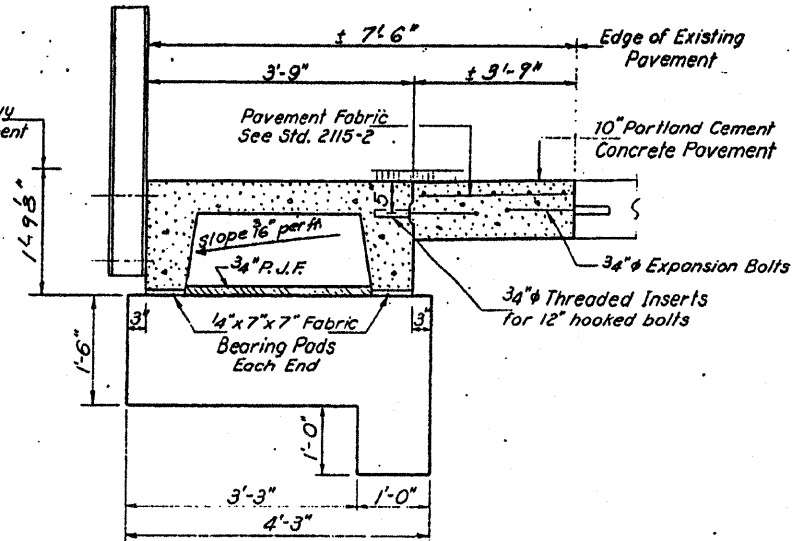


LONGITUDINAL SECTION

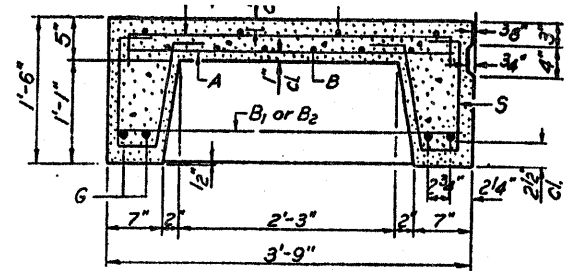


SLAB REINFORCEMENT

Grade Line Elev. at E Rdwy  
Top of exist. conc. pavement



SECTION A-A

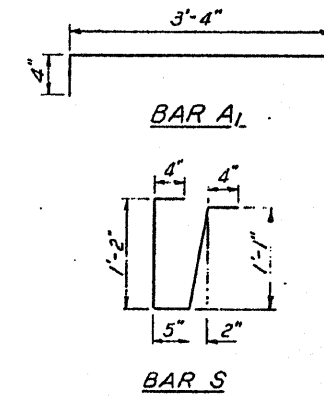


SECTION THRU PRECAST UNIT

BAR LIST - ONE UNIT

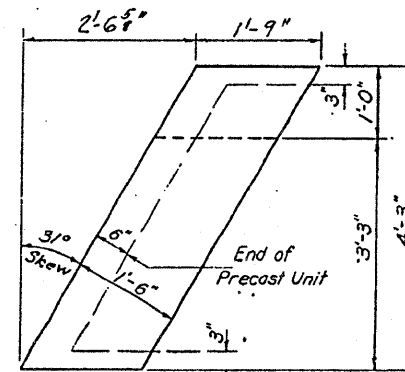
Reinforcement to be cast into slab

Bar	No.	Size	Length	Shape
A	52	#4	3'-3"	—
A1	27	#4	4'-0"	—
B	10	#4	19'-6"	—
B1	2	#4	3'-6"	—
B2	4	#4	4'-0"	—
G	4	#10	19'-6"	—
S	42	#3	3'-4"	U

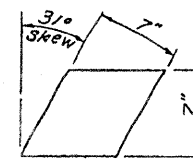


BAR A1

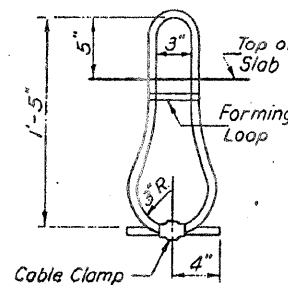
BAR S



PLAN - APPR. CAP



FABRIC BRG. PAD



LIFTING LOOP DETAIL

**NOTES**  
Unless otherwise approved by the Engineer, lifting loops shall be 1/2" 6x19 class wire rope with fiber core and shall have a minimum ultimate strength of 18,700 lbs. Loops shall be burned off after slab has been erected. Holes shall be drilled and anchor dowels grouted in place.  
Cost of reinforcement and accessories cast into the slab unit, bearing pads, furnishing, drilling for, placing and grouting anchor dowels and 3/4" hooked bolts is included in Unit bid price for "Precast Concrete Bridge Slab."  
The Precast Concrete Bridge Slab shall be erected and aligned with the exterior face of the exterior Deck Beam after Deck Beams are in final position.

BILL OF MATERIAL

Item	Unit	Quantity
Precast Concrete Bridge Slab	Sq. Ft.	299
Portland Cement Concrete Pavement (10)	Sq. Yds.	33
Pavement Fabric	Sq. Yds.	33
Expansion Bolts 3/4"	Each	48
Class X Concrete	Cu. Yds.	1.9

STRESSES

f<sub>c</sub> = 4,500 psi.  
f<sub>c</sub> = 1,800 psi.  
f<sub>s</sub> = 20,000 psi.  
n = 8

APPROACH DETAILS  
S.B.I.R.T. 3 SEC. II BR

WHITE SIDE COUNTY

DATE: 11/10/70

DESIGNED Simon (Ustambol)  
CHECKED James Pence  
DRAWN J.L. Armstrong

EXAMINED  
PASSED  
APPROVED

FEB. 26 1970

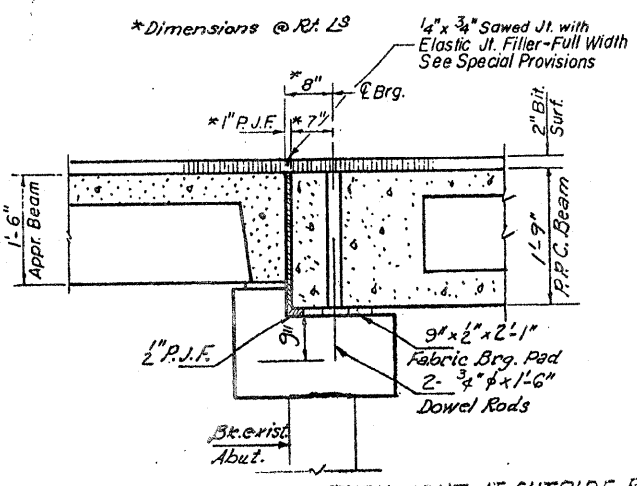
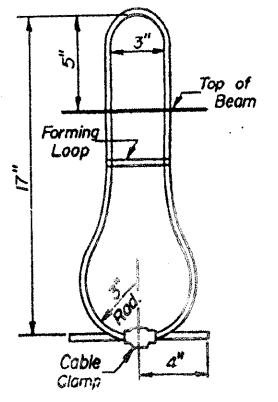
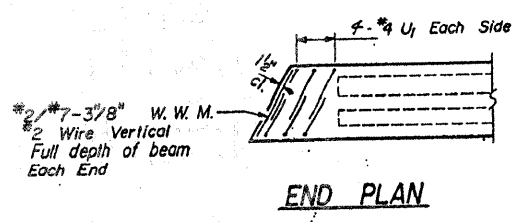
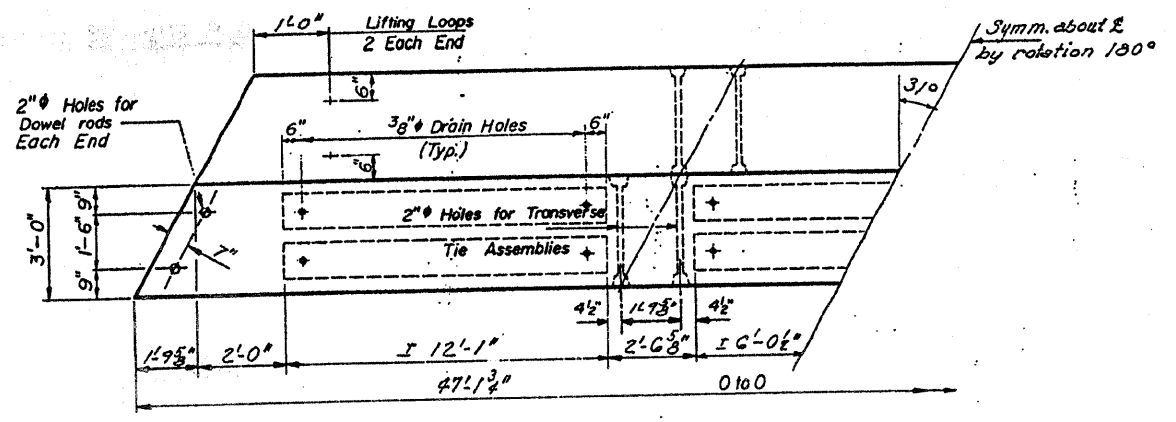
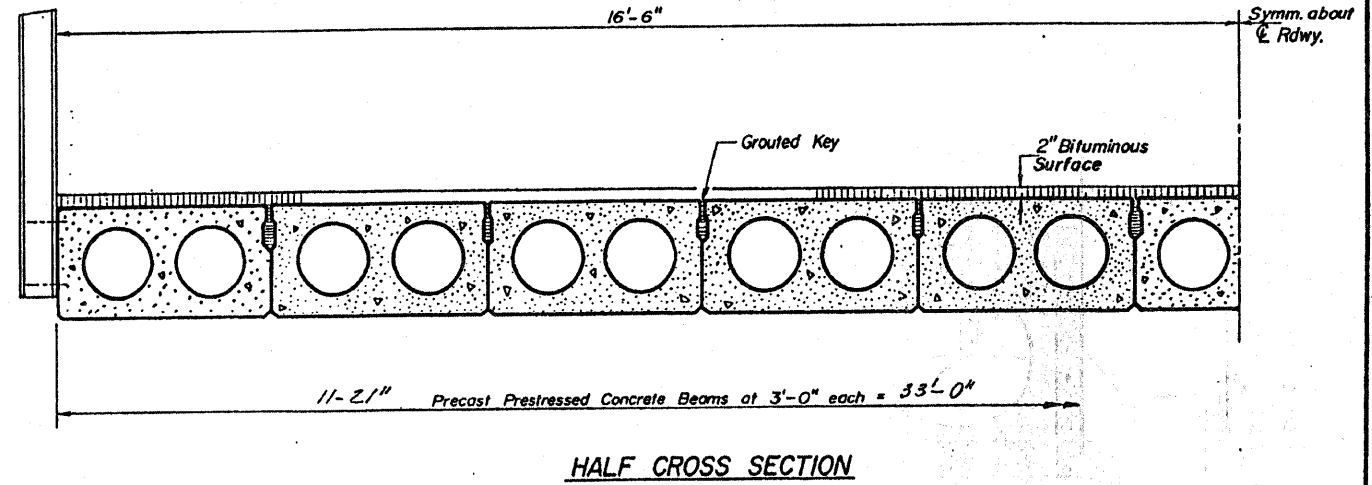
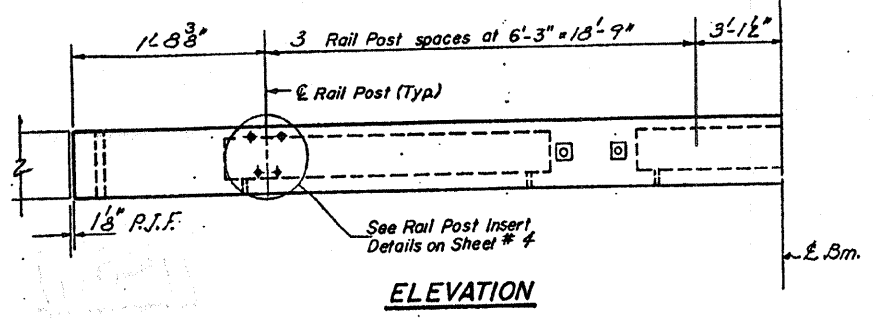
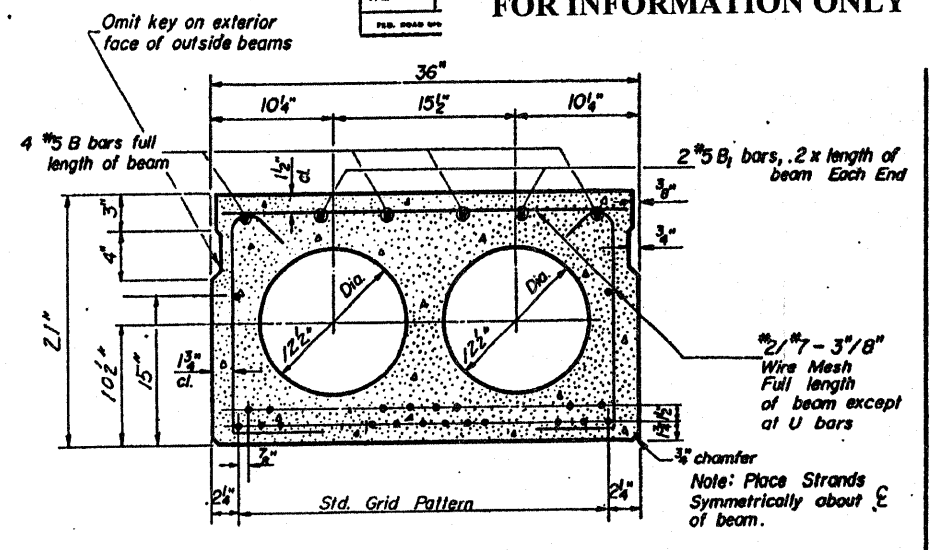
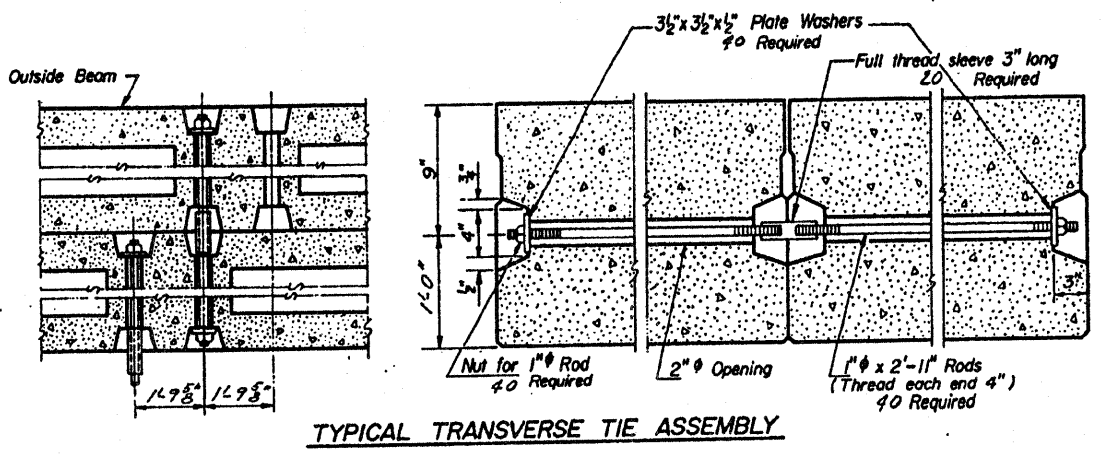
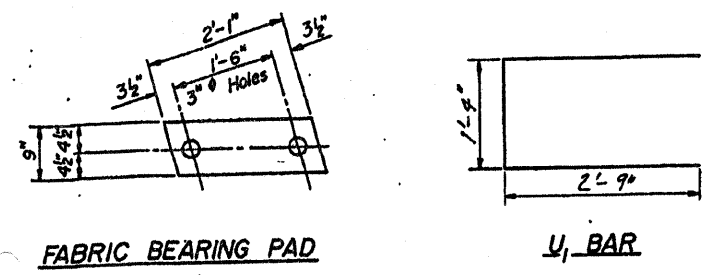
W. E. BAUMANN

ENGINEER OF BRIDGES AND TRAFFIC STRUCTURES

APPROVED

STATE OF ILLINOIS  
DEPARTMENT OF PUBLIC WORKS & BUILDINGS  
DIVISION OF HIGHWAYS

FOR INFORMATION ONLY



**GENERAL NOTES**

Prestressing steel shall be non-galvanized high strength, stress-relieved 7-wire strand. The nominal diameter shall be 1/6" and the nominal cross-sectional area shall be 0.109 sq. in.. Lifting loops shall be 3/8" diameter, 6x19 class wire rope with fiber core and shall have a minimum ultimate tensile strength of 28,000 lbs. The 1" rods in the transverse tie assembly shall be tightened to a snug fit and the threads set. Pockets that receive transverse tie bar on outside beam shall be filled with grout after transverse tie assembly is in place. Longitudinal shear keys shall be packed with a very dry mix of 2:1 sand and P.C. mortar. After beams have been erected, holes for dowel anchors shall be drilled into sub-structure. Grout dowels at fixed end. At expansion end grout dowels into sub-structure & fill holes in beam with P.A.F.-4. Steel for dowel rods, transverse tie rods, and armor angles shall be S.A.E. 1020, or A5774 A-306 Grade 70-80. After fabrication the transverse tie assemblies (tie rods, nuts, washers and sleeves) shall be hot-dipped galvanized in accordance with A.S.T.M. Designation: A153. Cost of reinforcement and accessories cast into the beam, of bearing pads, of armor angles, and of grouting longitudinal shear keys is included in unit price bid for "Precast Prestressed Concrete Deck Beams."

**BILL OF MATERIAL**

Item	Unit	Quantity
Precast Prestressed Concrete Deck Beams 21"	Sq. Ft.	15-56
Removal of Existing Superstructure	Each	1

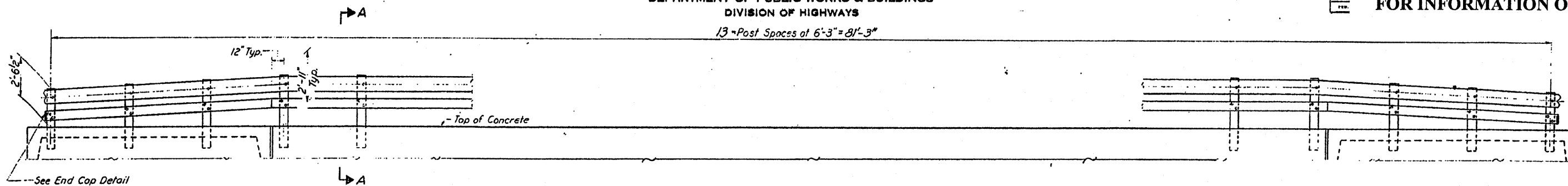
**SUPERSTRUCTURE**  
S.B.I.R.T.3 SEC.11 BR  
WHITESIDE COUNTY  
STA. 977+12

DESIGNED: Simon Ustasik  
CHECKED: James Ponce  
DRAWN: JAMES S. CARMAN  
EXAMINED: [Signature]  
PASSED: [Signature]  
DATE: Feb. 26, 1970

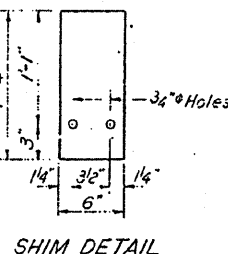
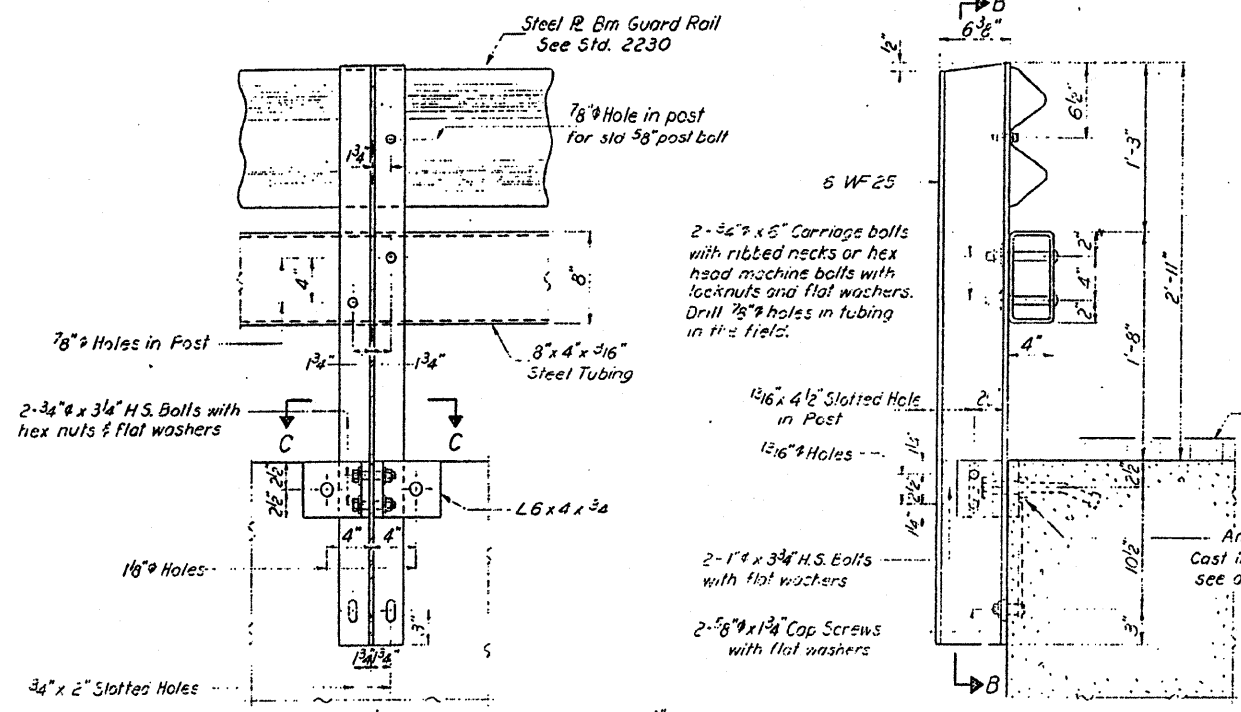
STATE OF ILLINOIS  
DEPARTMENT OF PUBLIC WORKS & BUILDINGS  
DIVISION OF HIGHWAYS

FOR INFORMATION ONLY

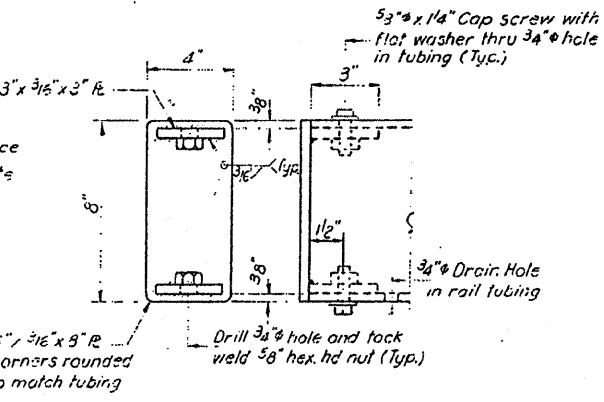
13 Post Spaces at 6'-3" = 81'-3"



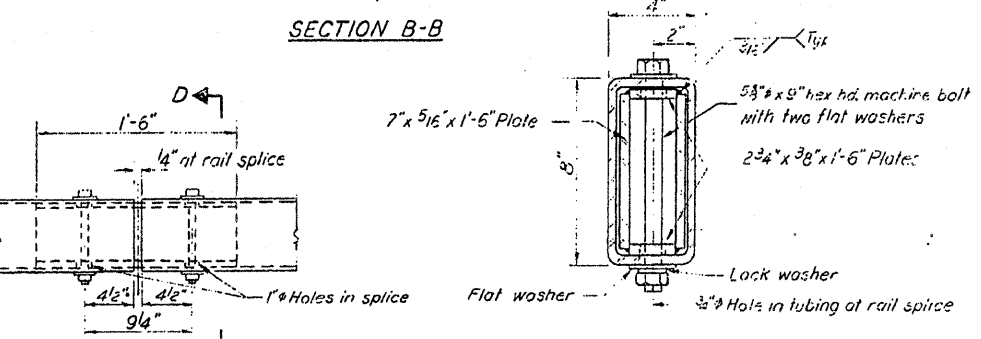
ELEVATION  
Showing inside face of railing



SHIM DETAIL



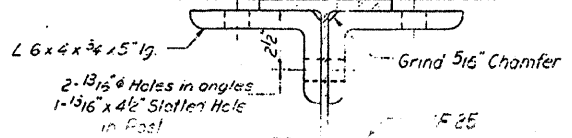
END CAP DETAIL  
4 Required



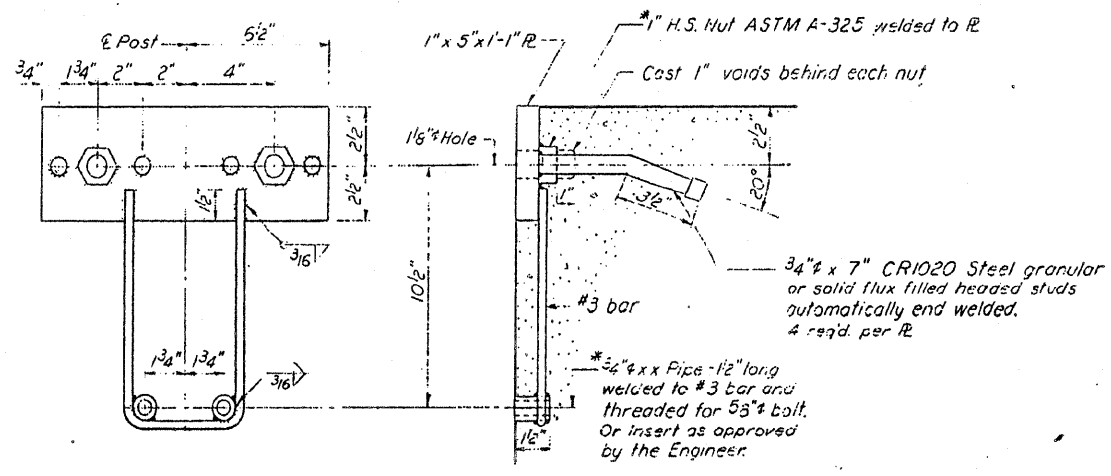
RAIL SPLICE

DESIGNED *Simon*  
CHECKED *James Pance*

EXAMINED *W.E.B.*  
APPROVED *W.E.B.*



SECTION A-A



ANCHOR DEVICE

NOTES

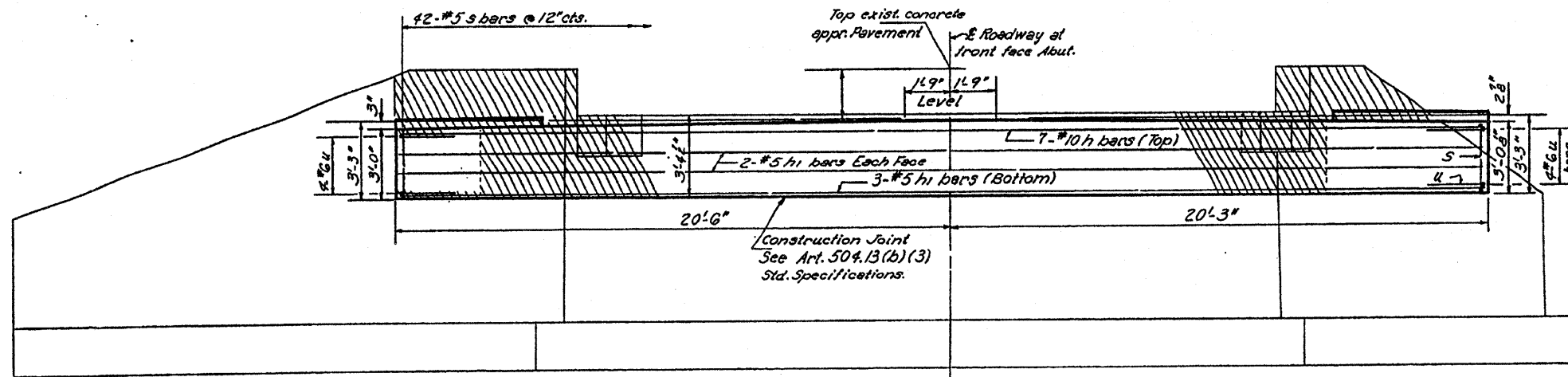
Hollow structural steel tubing shall conform to the requirements of ASTM designation A-501 "Hot Formed Welded and Seamless Carbon Steel Structural Tubing."  
All other steel shapes and plates shall conform to the requirements of ASTM designation A-441 or A-36.  
Bolts, cap screws, and nuts shall conform to the requirement of ASTM designation A-307 except for high strength bolts, nuts and washers noted which shall conform to ASTM designation A-325.  
All bolts, nuts, cap screws, washers and lock washers shall be galvanized in accordance with ASTM designation A-153.  
All posts, railing, rail splices, anchor devices and angles shall be galvanized after shop fabrication in accordance with ASTM designation A-123 and A-385. Galvanized rail shall not be painted.  
Railing shall be in accordance with Section 508 of the Standard Specifications, except as noted, and shall be paid for at the contract unit price per lineal foot for STEEL RAILING, TYPE W.  
All field drilled holes shall be coated with an approved zinc rich paint before erection.  
The lower portion of the post flange in contact with concrete shall receive two coats of asphalt point conforming to Section 714.08 Type B or place 1/2" fabric bearing pad between the post and concrete.  
The 3/4" high strength bolts used to connect the 6 x 4 x 3/4 angles to the post shall be tightened in accordance with Article 710.11 of the Standard Specifications. The 1" high strength bolts connecting the angles to the concrete beam shall be tightened to a snug fit and given an additional 1/8 turn.  
For multi-span bridges, sufficient 1/4" x 6" x 1-1/4" galvanized steel shims shall be provided to align rail between adjacent spans. Cost incidental to Steel Railing.

BILL OF MATERIAL

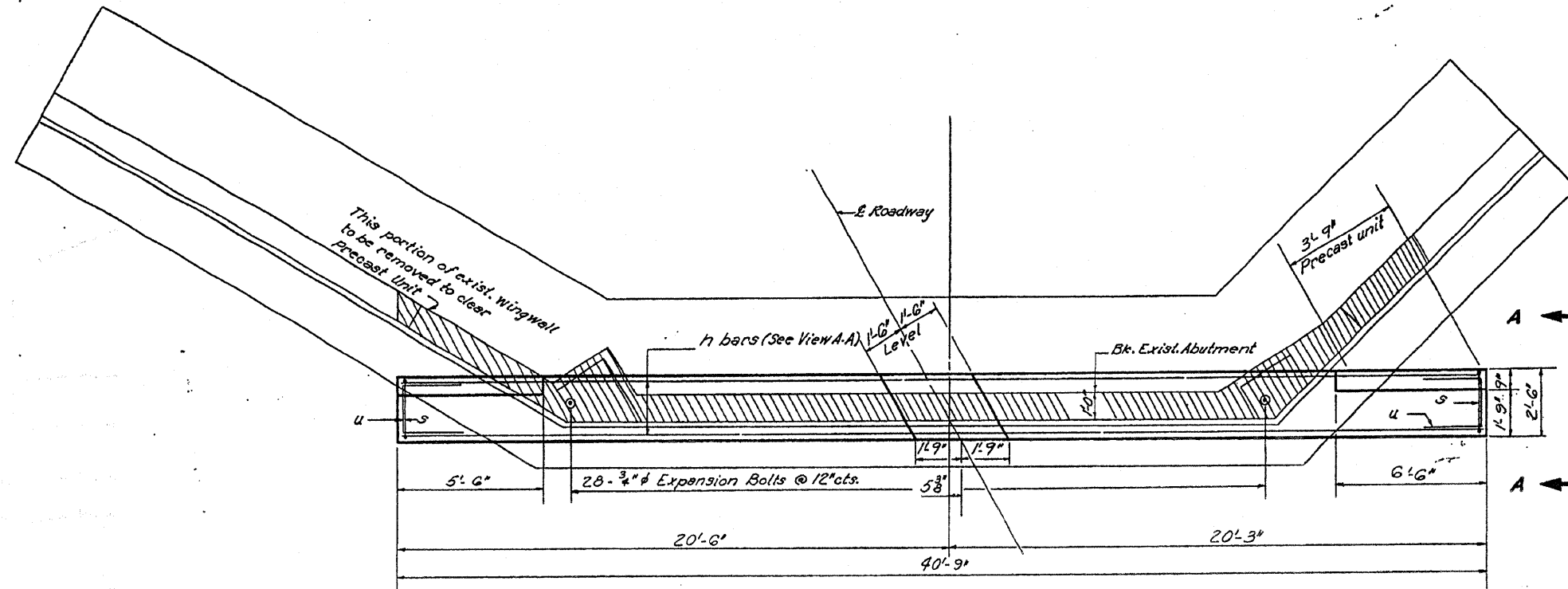
Item	Unit	Quantity
STEEL RAILING, TYPE W	Lin. Ft.	163

TYPE W  
STEEL RAILING  
S.B.I.R.T.3 SEC.11-BR  
WHITE SIDE COUNTY

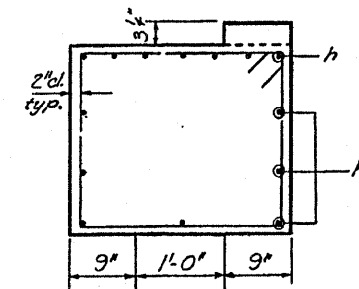
STATE OF ILLINOIS  
DEPARTMENT OF PUBLIC WORKS & BUILDINGS  
DIVISION OF HIGHWAYS



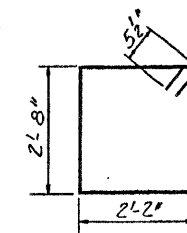
ELEVATION



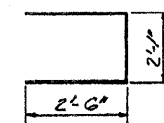
PLAN



VIEW A-A



BAR S



BAR U

TWO ABUTMENTS  
BILL OF MATERIAL

Bar	No.	Size	Length	Shape
h	14	#10	40'-6"	
h1	14	#5	40'-6"	
s	34	#5	10'-7"	□
u	16	#6	7'-1"	□
Class X Concrete			Cu. Yds.	23.8
Concrete Removal			Cu. Yds.	14
Reinforcement Bars			Lbs.	9,130
Expansion Bolts			Each	56

ABUTMENTS  
S.B.I.R.T.3 SEC. II BR  
WHITESIDE COUNTY

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

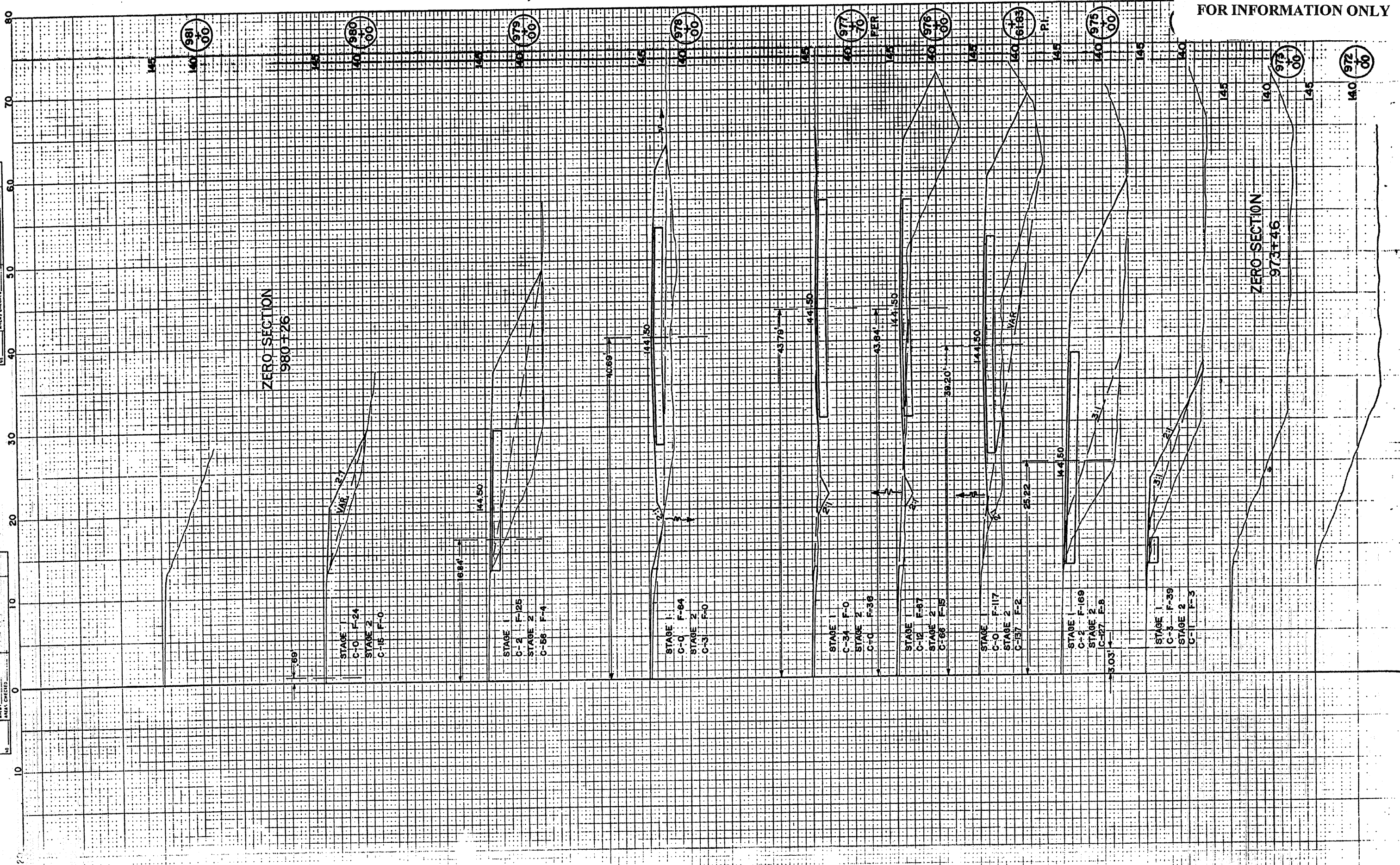
DESIGNED Simon Heston  
CHECKED James Pence  
EXAMINED [Signature]  
PASSED [Signature]  
FEB. 26 1970

SBI RT 3 SEC II BR Whiteside Co. Dist 5

FOR INFORMATION ONLY

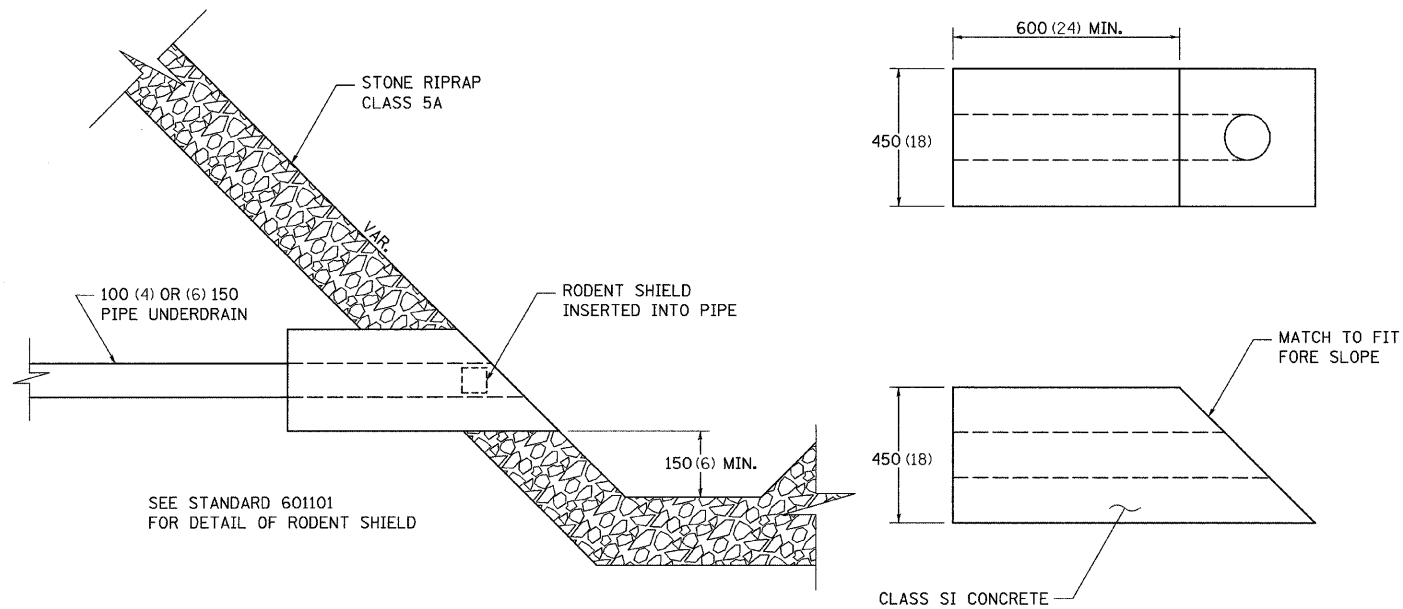
ORIGINAL SURFACE	PAVING
SURFACE	SPACE
TEMPLE	PLANTING
AREA	TEMPLE
AREA	AREA
AREA	AREA
AREA	AREA
AREA	AREA

ORIGINAL SURFACE	PAVING
SURFACE	SPACE
TEMPLE	PLANTING
AREA	TEMPLE
AREA	AREA
AREA	AREA
AREA	AREA
AREA	AREA



F.A.S. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
203	11BR-1	*	43	32
STA. _____		TO STA. _____		
FED. ROAD DIST. NO. _____ ILLINOIS FED. AID PROJECT				
*WHITESIDE & ROCK ISLAND				

# CONCRETE HEADWALLS FOR PIPE DRAINS



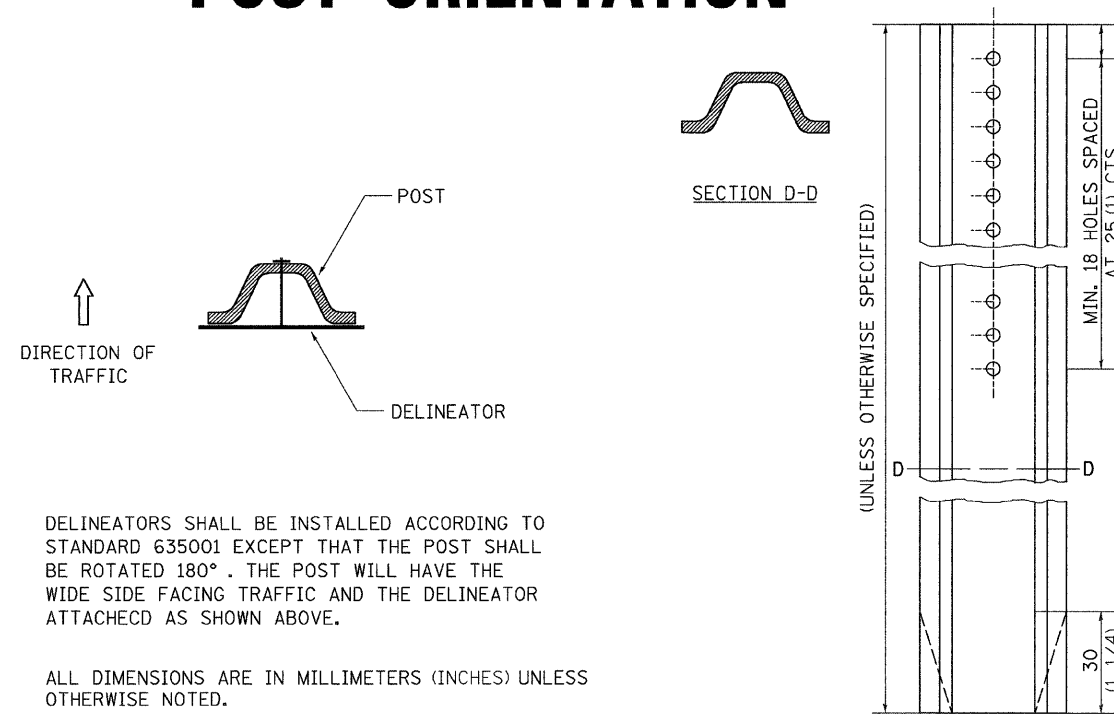
SEE STANDARD 601101 FOR DETAIL OF RODENT SHIELD

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

**CONCRETE HEADWALLS FOR PIPE DRAINS 27.4**

REVISED 10-15-04

# DELINEATOR AND POST ORIENTATION

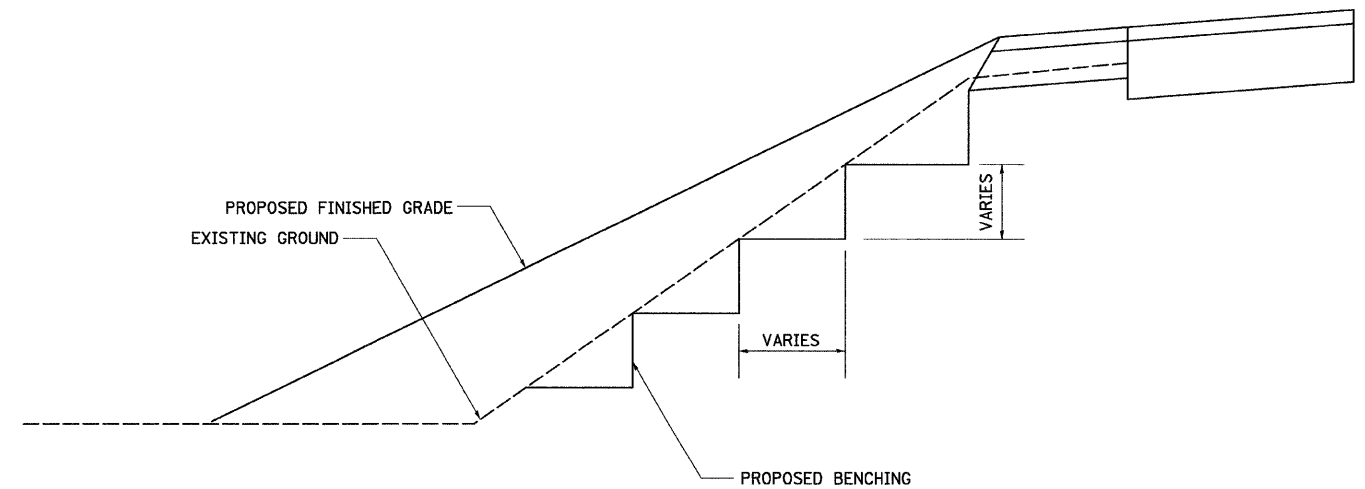


ALL DIMENSIONS ARE IN MILLIMETERS (INCHES) UNLESS OTHERWISE NOTED.

**DELINEATOR AND POST ORIENTATION 37.4**

REVISED 1-31-00

# TYPICAL BENCHING ON EXISTING EMBANKMENT



**TYPICAL BENCHING ON EXISTING EMBANKMENT 50.4**

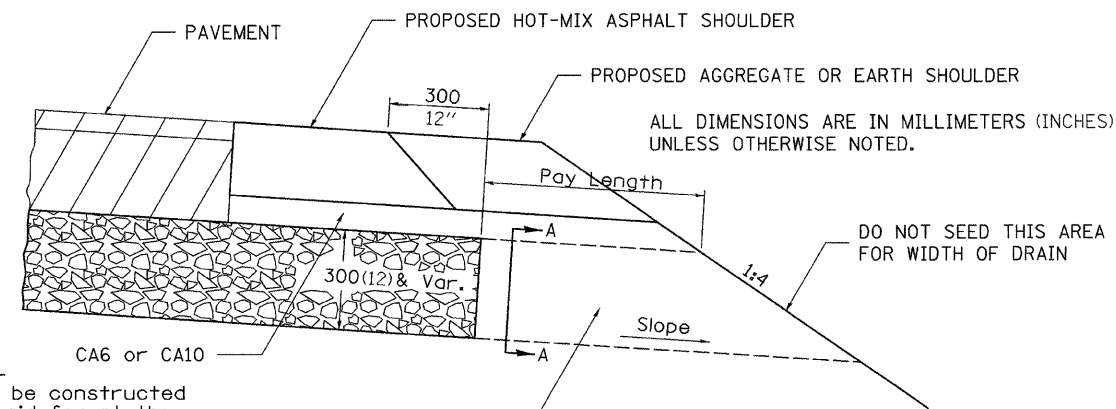
REVISED 2-22-06



F.A.S. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
203	11BR-1	•	43	33

STA. \_\_\_\_\_ TO STA. \_\_\_\_\_  
 FED. ROAD DIST. NO. \_\_\_\_\_ ILLINOIS FED. AID PROJECT  
 •WHITESIDE & ROCK ISLAND

## DRAIN FOR AGGREGATE BASE COURSE



**NOTES:**

The rock outlets shall be constructed using CA7 and will be paid for at the contract unit price per m<sup>2</sup> (SQ. YD.) for DRAIN FOR AGGREGATE BASE COURSE. The thickness shall be the same as the adjacent sub-base material as noted on the plans and shall include the cost of the filter fabric. The Rock outlets will be measured in m<sup>2</sup> (SQ. YD.), the width being 900 (36) by the length shown above. The cost of the CA6 or CA10 under the shoulder shall be included in the contract unit price per m<sup>2</sup> (SQ. YD.) for SUB-BASE GRANULAR MATERIAL, TYPE A of the thickness specified. The filter fabric to be used shall conform to the filter fabric used for Riprap.

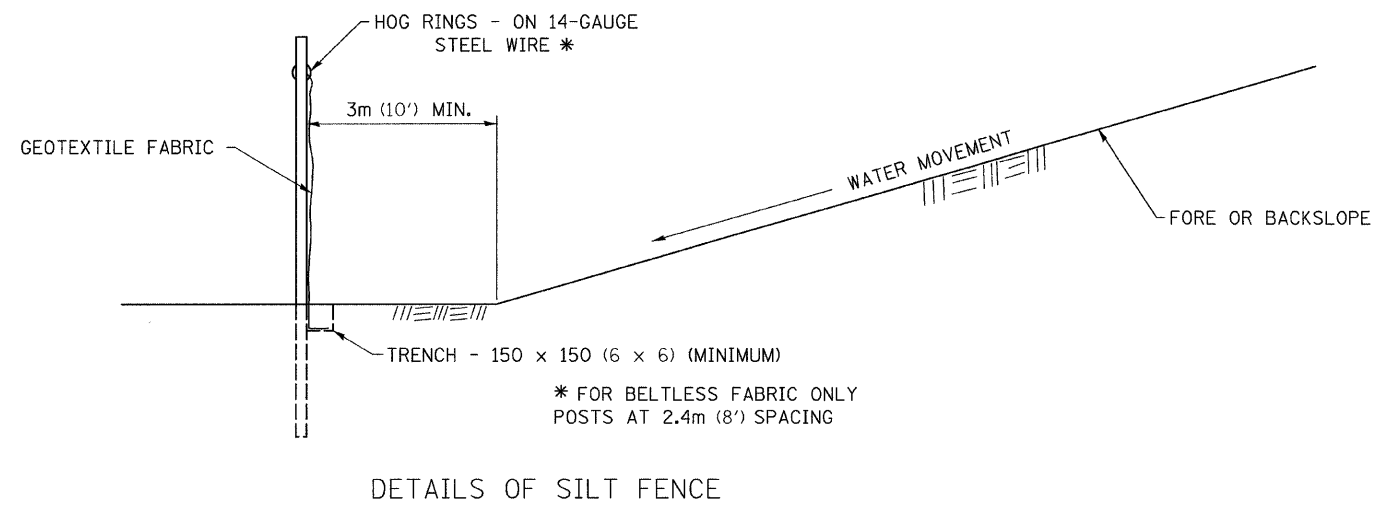
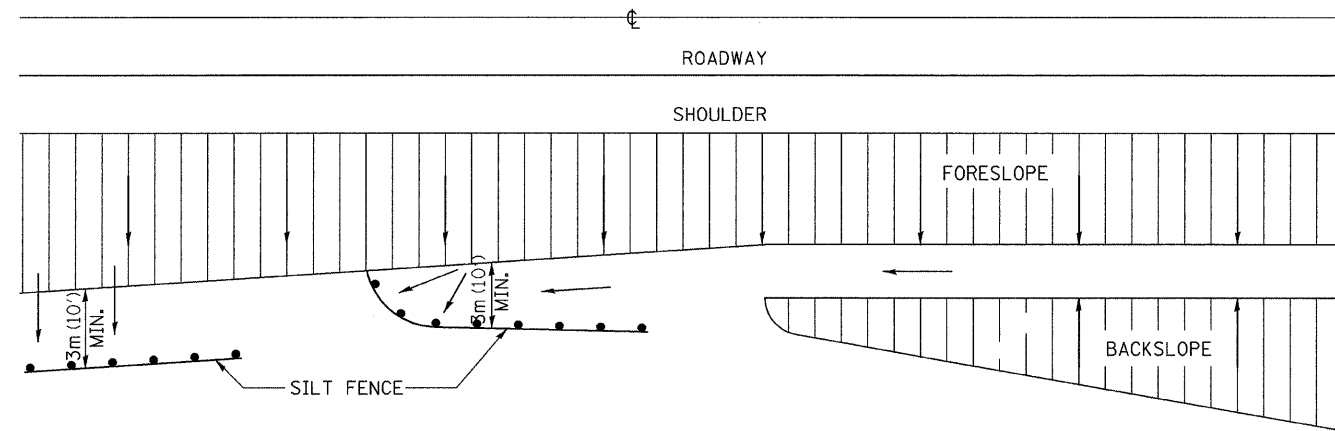
ROCK OUTLET AT ALL LOW POINTS TO BE 900 (36) WIDE AND EXTEND TO FORESLOPE

NOTE: Slope same as shoulder with 2% min.

## DRAIN FOR AGGREGATE BASE COURSE 96.4

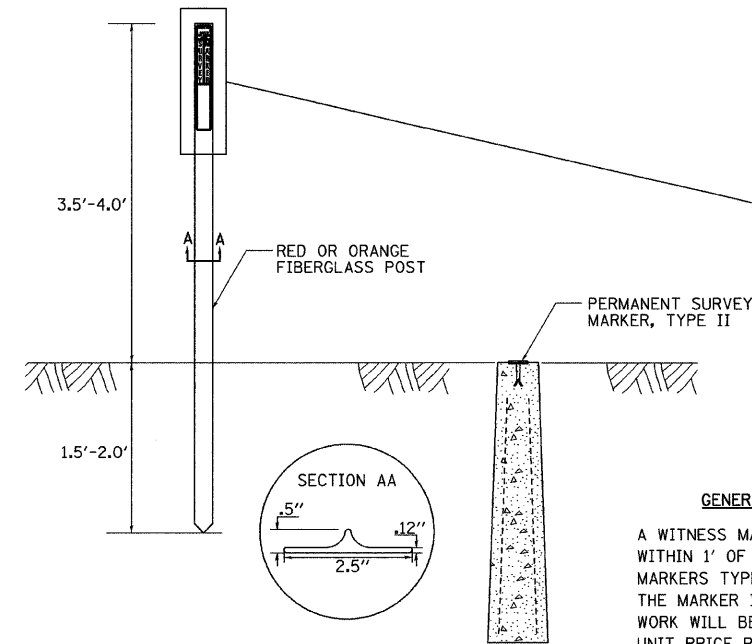
REVISED 10-10-06

# EROSION CONTROL DETAILS FOR SILT FENCE



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

# WITNESS MARKER FOR PERMANENT SURVEY MARKERS, TYPE II

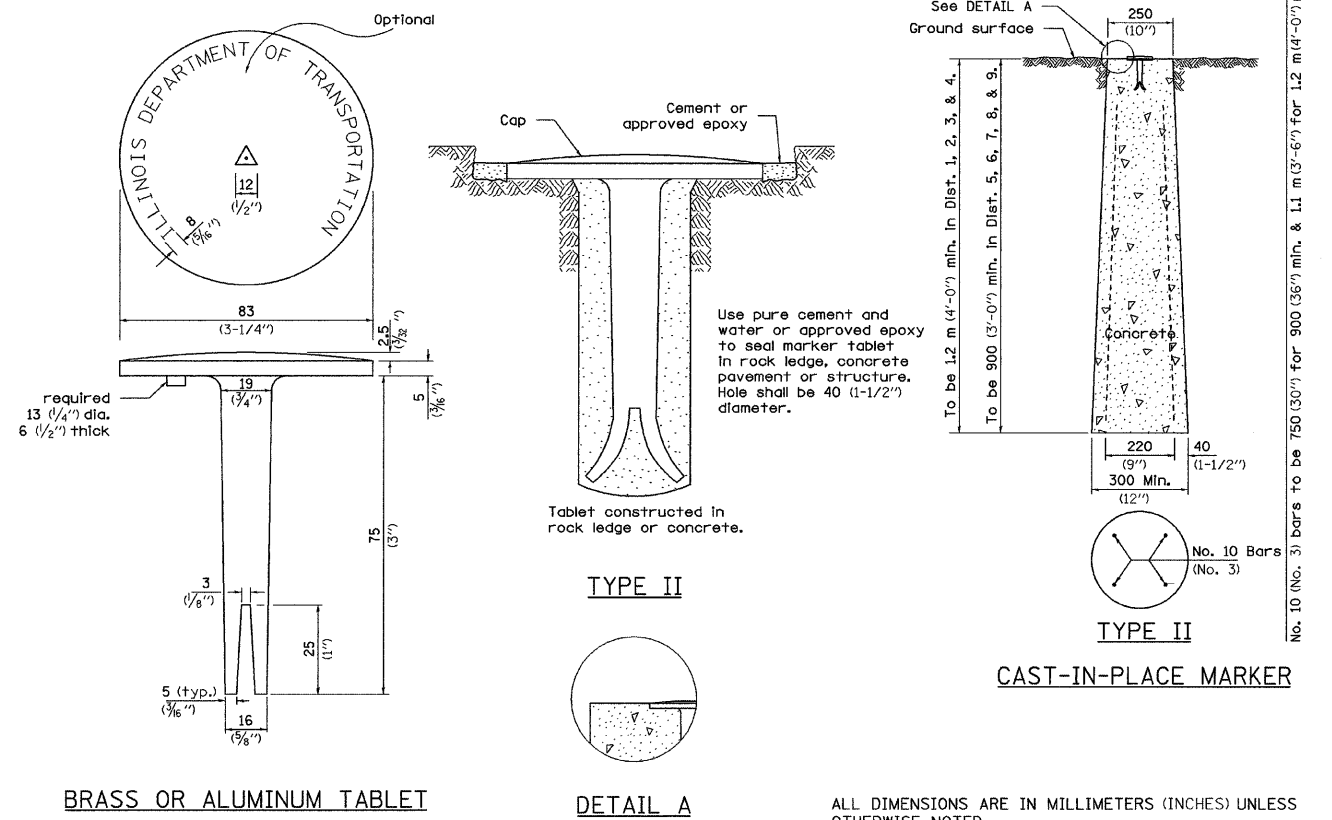


### GENERAL NOTES

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.

CONTRACT NO. 64939				
F.A.S. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
203	11BR-1	*	43	34
STA.		TO STA.		
FED. ROAD DIST. NO. ILLINOIS FED. AID PROJECT				
*WHITESIDE & ROCK ISLAND				

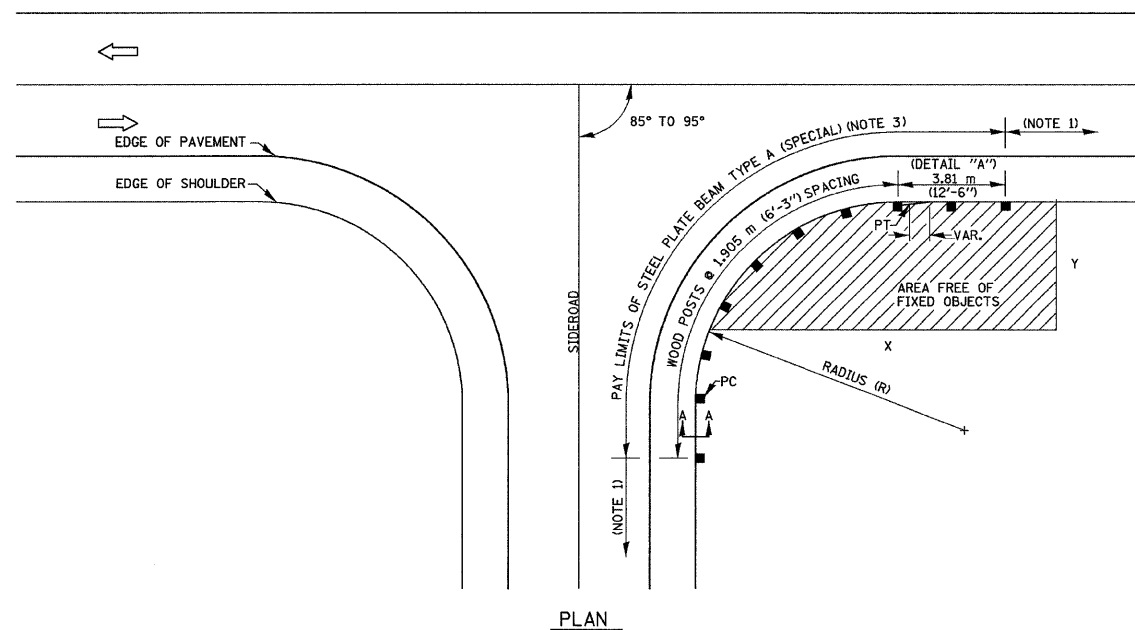
# PERMANENT SURVEY MARKERS, TYPE II



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

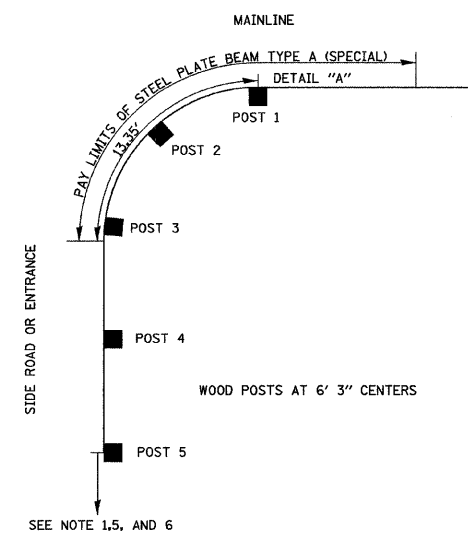
F.A.S. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
203	11BR-1	*	43	34A
STA.		TO STA.		
FED. ROAD DIST. NO. ILLINOIS FED. AID PROJECT				
*WHITESIDE & ROCK ISLAND				

# STEEL PLATE BEAM GUARD RAIL, TYPE A (SPECIAL)

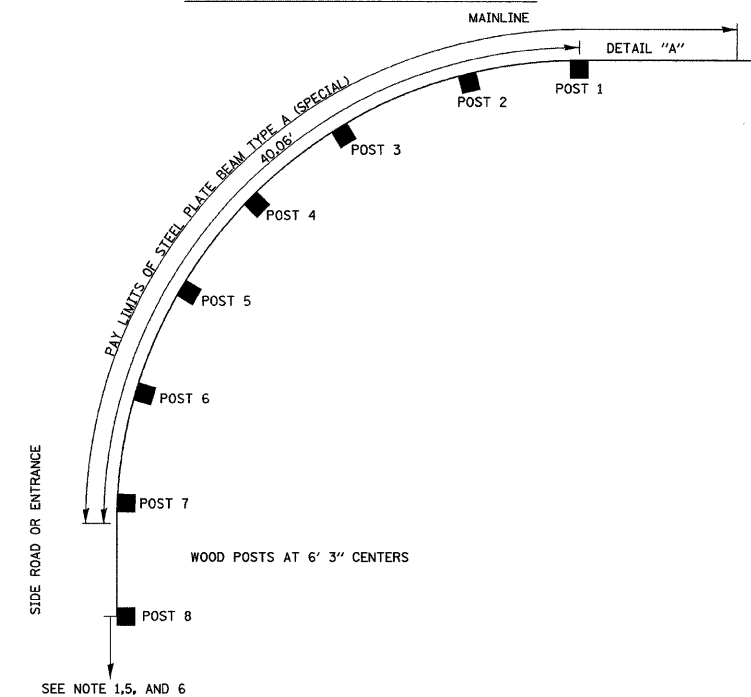


PLAN

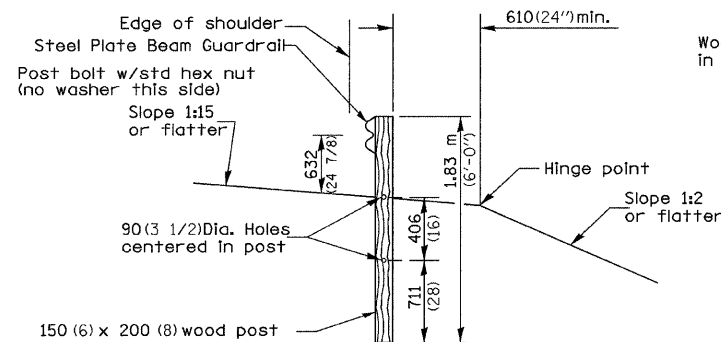
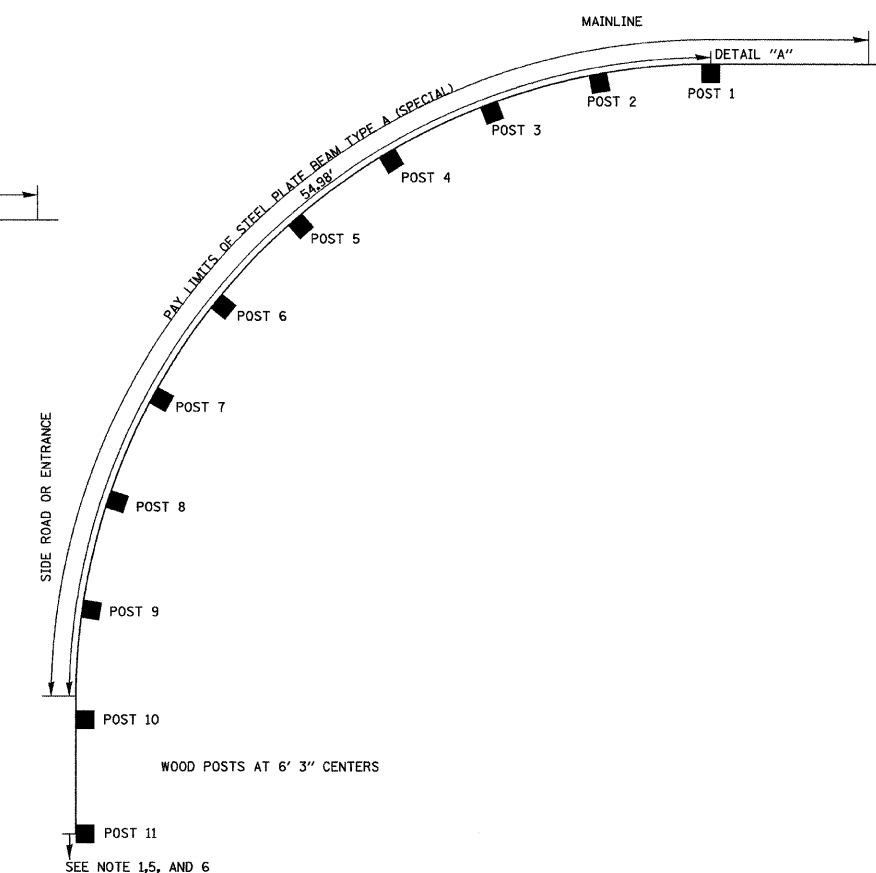
POST DETAIL FOR 8' 6" RADIUS



POST DETAIL FOR 25' 6" RADIUS

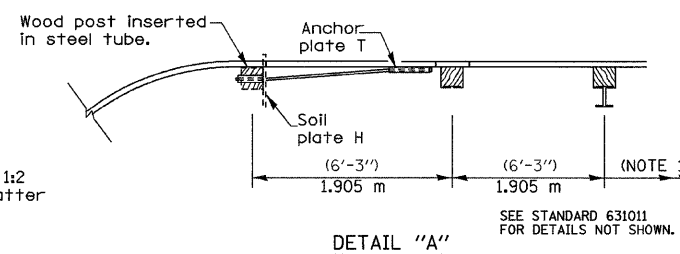


POST DETAIL FOR 35' 0" RADIUS



SECTION A-A

INSTALLATION CHARACTERISTICS PER DESIGN RADIUS (R)			
R	NO. OF WOOD POSTS	X	Y
2.59 (8'-6")	5 (NOTE 2)	7.6 m (25')	4.6 (15')
5.18 (17'-0")	6	9.1 m (30')	4.6 (15')
7.77 (25'-6")	8	12.2 m (40')	6.1 (20')
10.67 (35'-0")	11	15.2 m (50')	6.1 (20')



DETAIL "A"

NOTES:

- STEEL PLATE BEAM GUARDRAIL TYPE A, TYPE B, OR TRAFFIC BARRIER TERMINAL AS SPECIFIED.
- FOR THE 2.59 m (8'-6") RADIUS, THE RAIL IS NOT BOLTED TO THE POST LOCATED AT THE MIDPOINT OF THE CURVE.
- STEEL PLATE BEAM GUARDRAIL, TYPE A (SPECIAL) MEASURED FOR PAYMENT IN METERS (FEET). THE LENGTH MEASURED WILL BE THE OVERALL LENGTH OF THE SINGLE RAIL ERECTED MEASURED ALONG THE TOP EDGE OF THE RAIL ELEMENTS TO THE LIMITS SHOWN ON THE PLANS.
- BLOCK OUTS SHALL NOT BE USED WITHIN LIMITS OF THIS PAY ITEM.
- SIDE ROAD GUARDRAIL MUST END WITH TRAFFIC BARRIER TERMINAL, ON PE, CE, FE USE TRAFFIC BARRIER TERMINAL TYPE 2.
- ALL GUARDRAIL ON PE, CE, AND FE MUST BE WITHIN THE ROW.

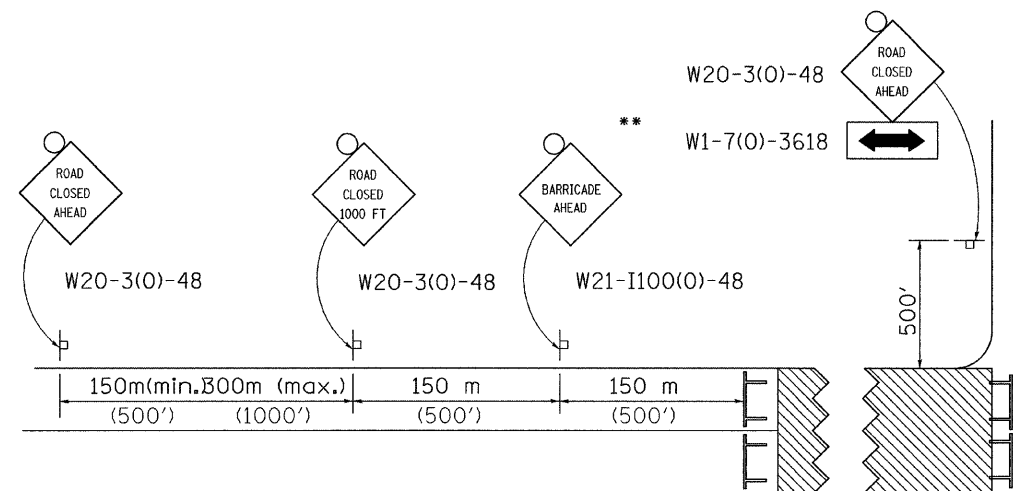
GENERAL NOTES

ALL SLOPE RATIOS ARE EXPRESSED AS UNITS OF VERTICAL DISPLACEMENT TO UNITS OF HORIZONTAL DISPLACEMENT (V:H).  
ALL DIMENSIONS ARE IN MILLIMETERS (INCHES) UNLESS OTHERWISE NOTED.

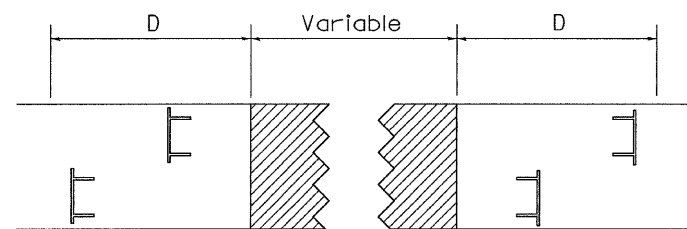
PLOT DATE = 10/07  
FILE NAME = 20990035PL  
PLOT SCALE = NONE  
REFERENCE = NONE

F.A.S. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
203	11BR-1	*	43	35
STA.		TO STA.		
FED. ROAD DIST. NO. - ILLINOIS FED. AID PROJECT				
*WHITESIDE & ROCK ISLAND				

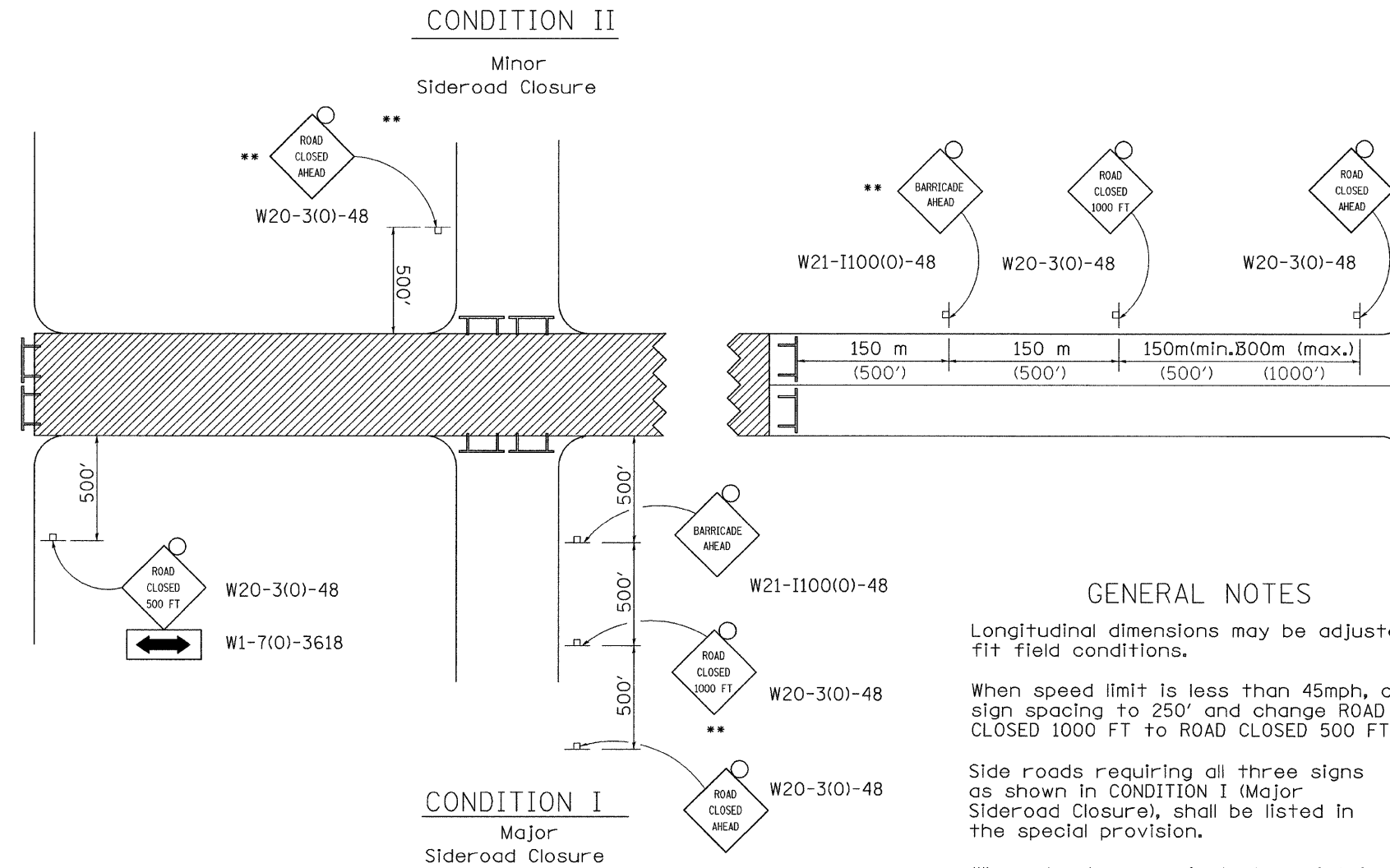
# TRAFFIC CONTROL FOR ROAD CLOSURE






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 702001. 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

## 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.

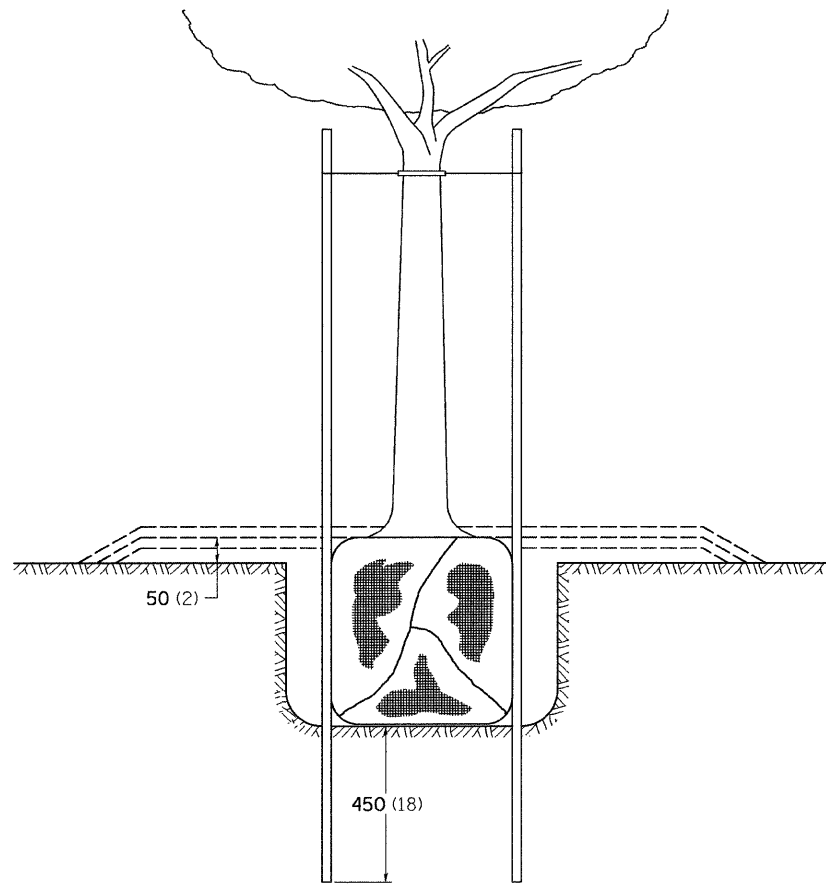
Type III Barricades and R11-2-4830 signs shall be as shown in "Road Closed To All Traffic" detail on Highway Standard 702001.

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

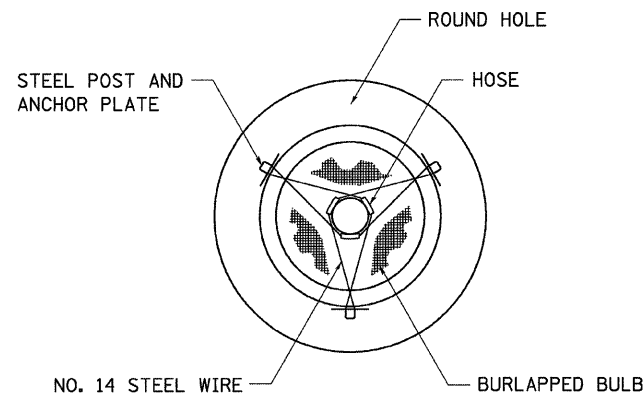
TYPICAL APPLICATION FOR ROAD CLOSURE

F.A.S. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
203	11BR-1		43	36
STA.		TO STA.		
FED. ROAD DIST. NO. ILLINOIS FED. AID PROJECT				
*WHITESIDE & ROCK ISLAND				

# DETAILS OF PLANTING AND BRACING TREES

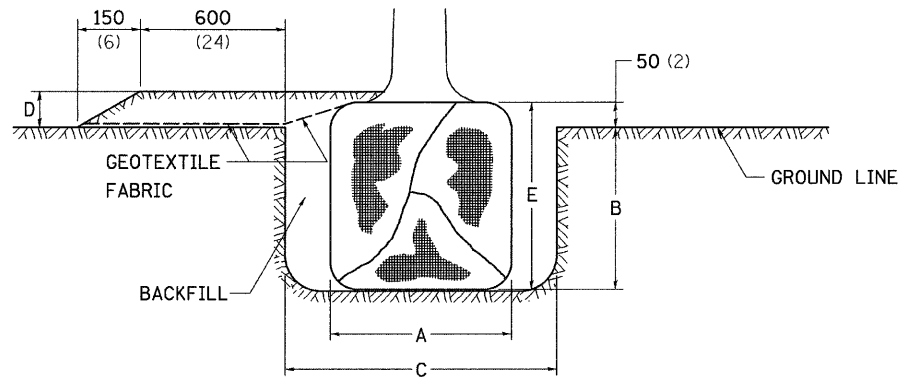


TREES SMALLER THAN 115 (4 1/2) IN DIAMETER

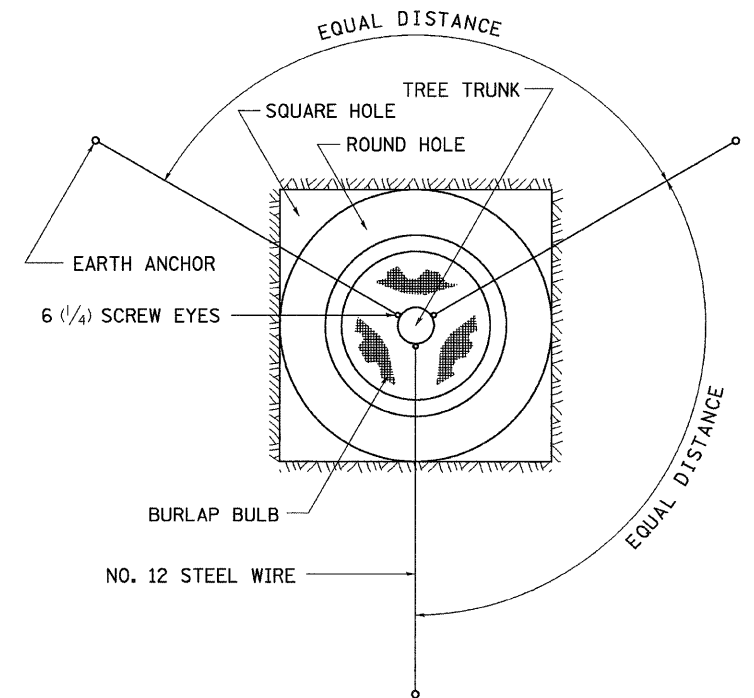


SMALL	A	B	C	D	E	F
TREE SIZE	DIAMETER OF BALL OR ROOT SYS.	DEPTH OF HOLE EXCAVATION	WIDTH OF HOLE EXCAVATION	THICKNESS OF MULCH COVER	DEPTH OF BALL OR ROOT SYS.	VOLUME OF MULCH COVER m <sup>3</sup> (CU. YDS.)
1.5-1.8m (5'-6')	400 (16)	250 (10)	750 (30)	100 (4)	300 (12)	0.41 (0.54)
1.5-1.8m (5'-6') BB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

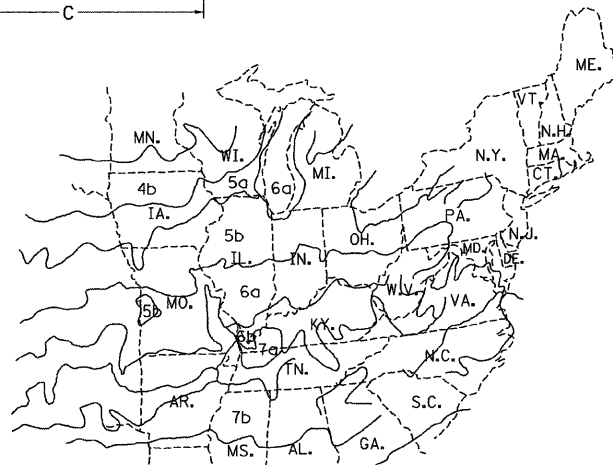
LARGE	A	B	C	D	E	F
TREE SIZE	DIAMETER OF BALL OR ROOT SYS.	DEPTH OF HOLE EXCAVATION	WIDTH OF HOLE EXCAVATION	THICKNESS OF MULCH COVER	DEPTH OF BALL OR ROOT SYS.	VOLUME OF MULCH COVER m <sup>3</sup> (CU. YDS.)
0-50 (0-2)	500 (20)	275 (11)	900 (36)	100 (4)	325 (13)	0.47 (0.61)
50-65 (2-2 1/2) BB	600 (24)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



TREES OVER 115 (4 1/2) IN DIAMETER



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

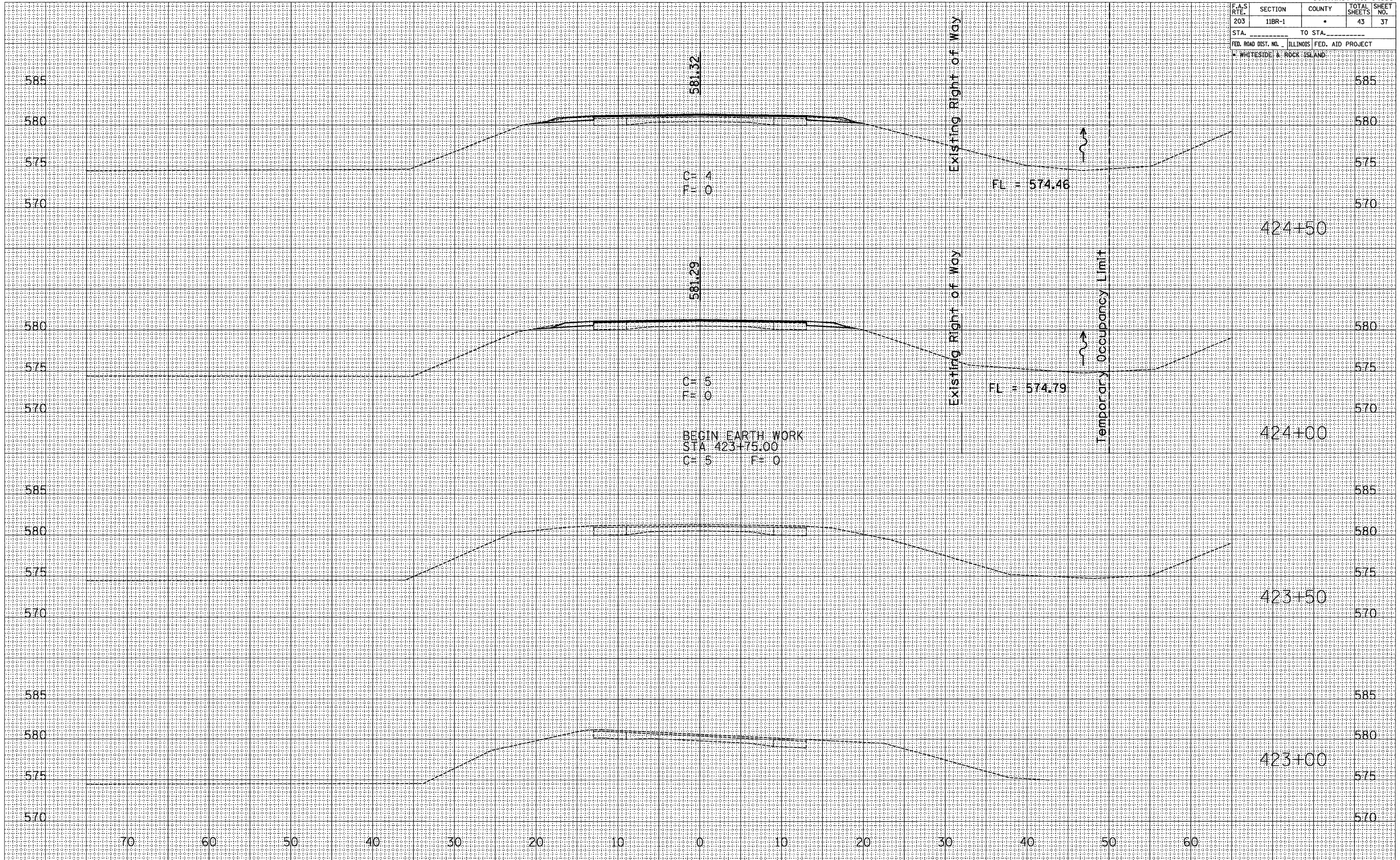


PLANT HARDINESS ZONE MAP  
U.S. DEPARTMENT OF AGRICULTURE  
AGRICULTURAL RESEARCH SERVICE  
PUBLICATION NO. 814

F.A.S. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
203	11BR-1	*	43	37
STA. _____		TO STA. _____		
FED. ROAD DIST. NO. _____ ILLINOIS FED. AID PROJECT				
* WHITESIDE & ROCK ISLAND				

FINAL SURVEY	DATE
BY CHAMLIN	1/04
LAG	2/04
AMP	3/06
NOE	3/06

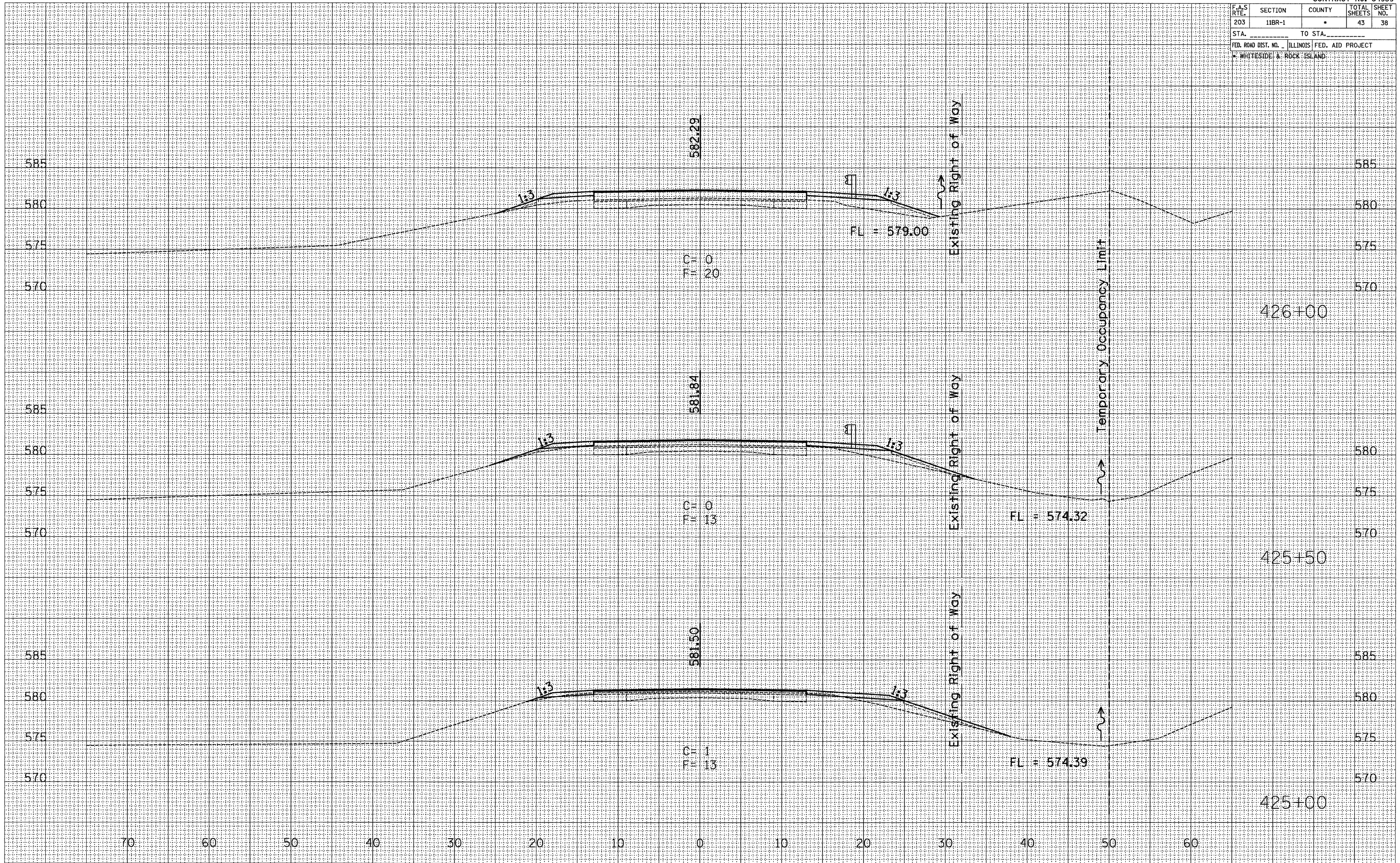
ORIGINAL SURVEY	DATE
BY	
DATE	



F.A.S. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
203	11BR-1	*	43	38
STA. _____		TO STA. _____		
FED. ROAD DIST. NO. _____ ILLINOIS FED. AID PROJECT				
* WHITESIDE & ROCK ISLAND				

FINAL SURVEY	DATE
BY CHAMLIN	1/04
LAG	2/04
NOTE BOOK	3/06
NO.	3/06

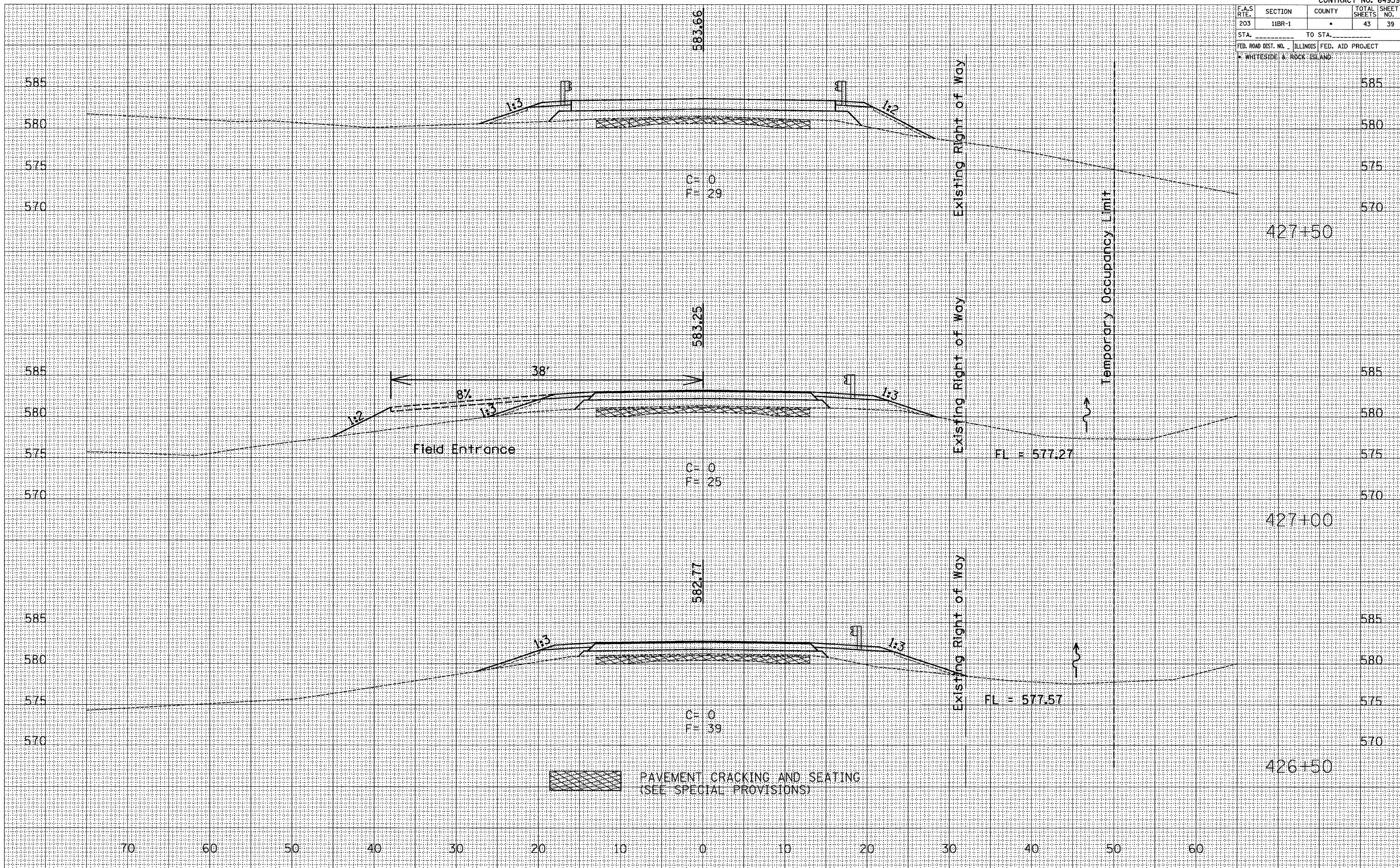
ORIGINAL SURVEY	DATE
BY	
NO.	



F.A.S. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
203	11BR-1	•	43	39
STA. _____		TO STA. _____		
FED. ROAD DIST. NO. _____ ILLINOIS FED. AID PROJECT				
* WHITESIDE & ROCK ISLAND				

FINAL SURVEY	DATE
BY CHAMBERLAIN	1/2/01
LAG	2/2/04
MAP	3/1/06
AREAS CHECKED	3/1/06
NO.	

ORIGINAL SURVEY	DATE
BY	
FL. - FED.	
MAP	
AREAS CHECKED	
NO.	

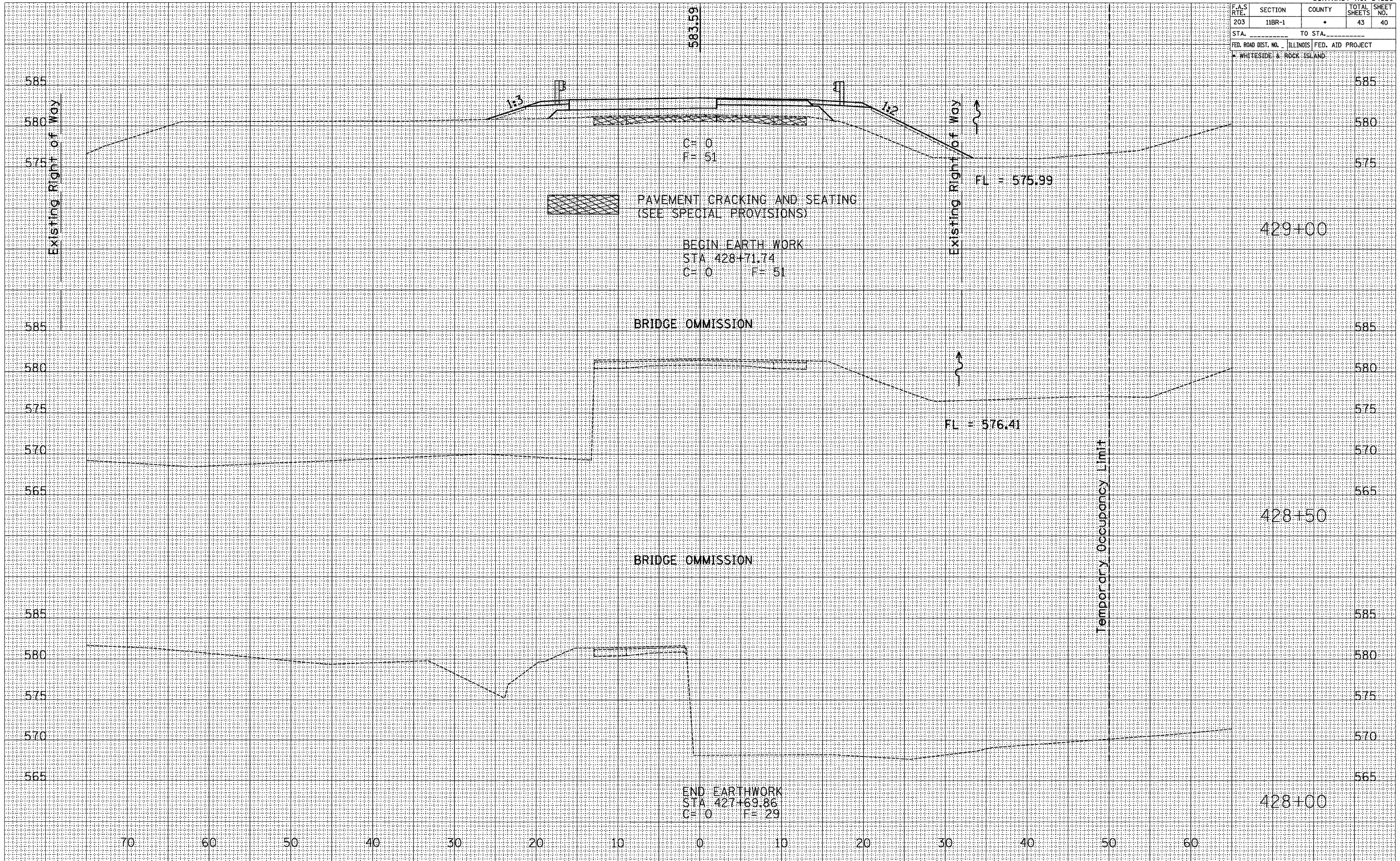




F.A.S. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
203	11BR-1	•	43	40
STA. _____		TO STA. _____		
FED. ROAD DIST. NO. ILLINOIS FED. AID PROJECT				
* WHITESIDE & ROCK ISLAND				

DATE	BY
1/04	CHAMLIN
2/04	LAG
3/06	KAP
3/06	NOE

DATE	BY



F.A.S. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
203	11BR-1	*	43	41
STA. _____ TO STA. _____		FED. ROAD DIST. NO. _____ ILLINOIS FED. AID PROJECT		
* WHITESIDE & ROCK ISLAND				

DATE	BY
1/04	CHAMLIN
2/04	LAC
3/06	AMP
3/06	NOE

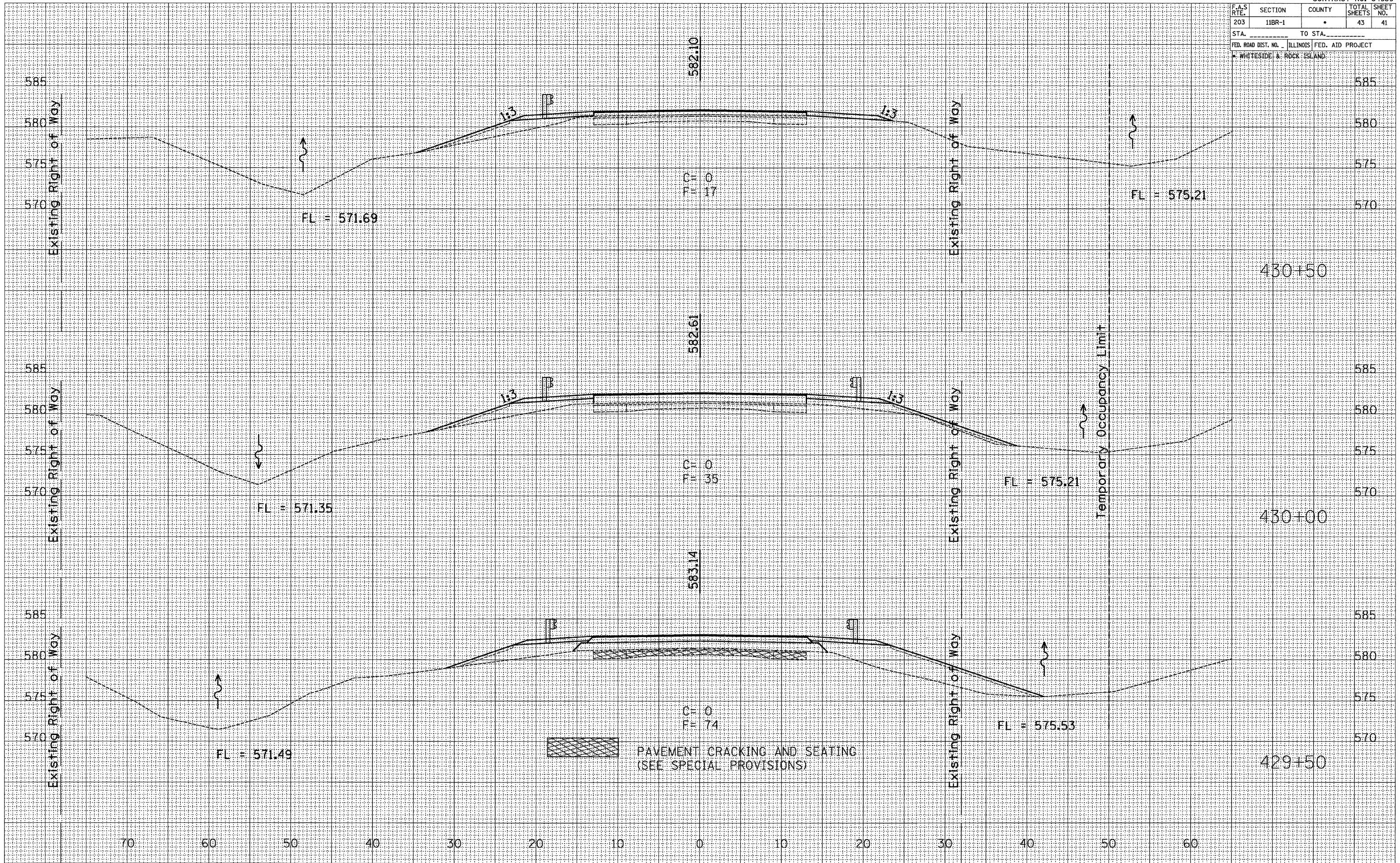
  

NO.	AREAS CHECKED

DATE	BY

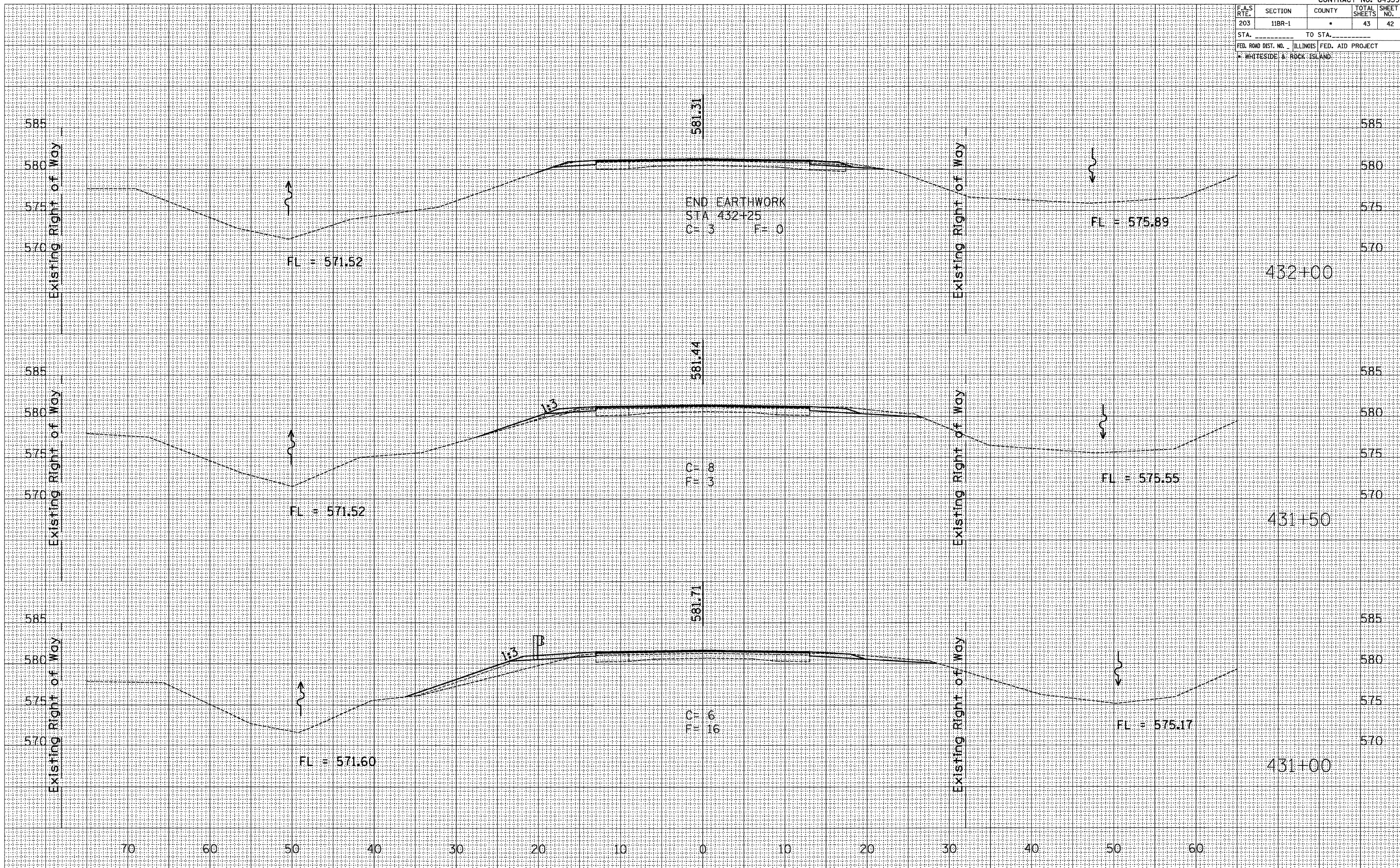
NO.	AREAS CHECKED



F.A.S. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
203	11BR-1	•	43	42
STA. _____		TO STA. _____		
FED. ROAD DIST. NO. ILLINOIS FED. AID PROJECT				
• WHITESIDE & ROCK ISLAND				

DATE	BY
1/04	CHAMLIN
2/04	LAG
3/04	MP
3/06	MP

DATE	BY
3/06	NOE



F.A.S. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
203	118R-1	*	43	43
STA. _____		TO STA. _____		
FED. ROAD DIST. NO. _____ ILLINOIS FED. AID PROJECT				
* WHITESIDE & ROCK ISLAND				

DATE	BY
1/04	CHAMLIN
2/04	LAG
3/06	KAP
5/08	NOE

NO.	AREAS CHECKED

NO.	NOTE BOOK

NO.	TEMPLATE

NO.	PLOTTED

NO.	SURVEYED

