

STATE OF ILLINOIS  
DEPARTMENT OF TRANSPORTATION

ROUTE NO.	SECTION	COUNTY	SHEET NO.	SHEET TOTAL
303	129K	WINNEBAGO	585	181
FED. ROAD DIST. NO.		ILLINOIS	FED. AID PROJECT-	
CONTRACT NO. 64594				

SHEET NO. S02  
OF SHEETS S47

GENERAL NOTES

ALL SUPERSTRUCTURE CONCRETE SHALL MEET THE REQUIREMENTS OF THE IDOT STANDARD SPECIFICATIONS FOR HIGH PERFORMANCE CONCRETE SUPERSTRUCTURE (HPC) WITH MICRO-SILICA MIX DESIGN. THIS INCLUDES BRIDGE DECK, BRIDGE BARRIERS AND DIAPHRAGMS. ALL CONCRETE SUBSTRUCTURE AND APPROACH SLAB BARRIERS SHALL MEET THE REQUIREMENTS OF THE IDOT STANDARD SPECIFICATIONS FOR CONCRETE STRUCTURES.

ALL EXPOSED CONCRETE EDGES SHALL HAVE A 3/4" x 45° CHAMFER, UNLESS NOTED OTHERWISE. CHAMFER ON VERTICAL EDGES SHALL BE CONTINUED A MINIMUM OF ONE FOOT BELOW FINISHED GROUND LEVEL.

REINFORCEMENT BARS, INCLUDING EPOXY-COATED REINFORCEMENT BARS, SHALL CONFORM TO THE REQUIREMENTS OF AASHTO M31 OR M322 GRADE 60, DEFORMED BARS.

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

REINFORCEMENT BAR BENDING DETAILS SHALL BE IN ACCORDANCE WITH THE "MANUAL OF STANDARD PRACTICE FOR DETAILING REINFORCED CONCRETE STRUCTURES", ACI 315, LATEST EDITION.

REINFORCEMENT BAR BENDING DIMENSIONS ARE OUT TO OUT.

REINFORCEMENT BARS NOTED THUS, 3X2-\*5 INDICATES 3 LINES OF BARS WITH 2 LENGTHS OF BARS PER LINE.

COVER FROM THE FACE OF CONCRETE TO FACE OF REINFORCEMENT BARS SHALL BE 3" FOR SURFACES FORMED AGAINST EARTH AND 2" FOR ALL OTHER SURFACES UNLESS OTHERWISE SHOWN.

REINFORCEMENT BAR SPLICES SHALL BE IN ACCORDANCE WITH THE FOLLOWING TABLE UNLESS OTHERWISE SHOWN ON THE DRAWING

CLASS "C" SPLICE- BASIC	FC' = 3500 PSI	FC' = 4000 PSI
#4	1'-8"	1'-8"
#5	2'-2"	2'-2"
#6	2'-7"	2'-7"
#7	3'-5"	3'-3"
#8	4'-6"	4'-3"
#9	5'-9"	5'-5"
#10	7'-3"	6'-10"
#11	9'-0"	8'-5"

  

CLASS "C" SPLICE - TOP BARS	FC' = 3500 PSI	FC' = 4000 PSI
#4	2'-5"	2'-5"
#5	3'-0"	3'-0"
#6	3'-7"	3'-7"
#7	4'-10"	4'-6"
#8	6'-4"	5'-11"
#9	8'-1"	7'-6"
#10	10'-3"	9'-7"
#11	12'-7"	11'-9"

SLOPE WALLS SHALL BE REINFORCED WITH WELDED WIRE FABRIC 6"X6" - W4.0 X W4.0, WEIGHING 58 POUNDS PER 100 SQUARE FEET.

DESIGNED	JZ
CHECKED	AH
DRAWN	DCP
CHECKED	JIG

CONTRACTOR SHALL NOT SCALE DIMENSIONS FROM THE CONTRACT PLANS FOR CONSTRUCTION PURPOSES. DIMENSIONS ARE SHOWN FOR INFORMATION ONLY.

NO CONSTRUCTION JOINT EXCEPT THOSE SHOWN ON THE PLANS WILL BE ALLOWED UNLESS APPROVED BY THE ENGINEER.

PLAN DIMENSIONS AND DETAILS RELATIVE TO EXISTING STRUCTURE HAVE BEEN TAKEN FROM EXISTING PLANS AND ARE SUBJECT TO NOMINAL CONSTRUCTION VARIATIONS. IT SHALL BE THE CONTRACTOR'S RESPONSIBILITY TO VERIFY SUCH DIMENSIONS AND DETAILS IN THE FIELD AND MAKE NECESSARY APPROVED ADJUSTMENT PRIOR TO CONSTRUCTION OR ORDERING OF MATERIALS. SUCH VARIATIONS SHALL NOT BE CAUSE FOR ADDITIONAL COMPENSATION FOR A CHANGE IN THE SCOPE OF WORK; HOWEVER, THE CONTRACTOR WILL BE PAID FOR THE QUANTITY ACTUALLY FURNISHED AT THE UNIT PRICE FOR THE WORK.

THE EXISTING BRIDGE PLANS ARE AVAILABLE AT THE ILLINOIS TOLL HIGHWAY AUTHORITY OFFICE, AND WILL BE MADE AVAILABLE TO THE CONTRACTOR UPON WRITTEN REQUEST.

TEMPORARY SHEETING AND BRACING SHALL BE CONSTRUCTED AT THE LOCATIONS SHOWN ON THE PLANS AND/OR AS REQUIRED FOR THE EXCAVATION TO PROTECT THE ADJACENT AREAS FROM SETTLING OR FALLING INTO THE EXCAVATED AREAS.

IT SHALL BE THE CONTRACTOR'S RESPONSIBILITY TO VERIFY THE LOCATION OF ALL UTILITIES PRIOR TO STARTING CONSTRUCTION. CONTACT J.U.L.I.E., 800-892-0123.

THE MANUFACTURER, THE CONTRACTOR AND THE BEAM TRANSPORTATION COMPANY SHALL PROVIDE ADEQUATE BRACING AND SUPPORT FOR PPC BEAMS DURING TRANSPORTING, STORING AND ERECTING TO ENSURE THE SAFETY OF THE PERSONNEL ASSOCIATED WITH THE CONSTRUCTION OF THE PROJECT.

POROUS GRANULAR BACKFILL SHALL BE PLACED BEHIND THE ABUTMENT AFTER THE SUPERSTRUCTURE HAS BEEN PLACED, THE WINGWALLS HAVE BEEN CONSTRUCTED, ALL FALSEWORK HAS BEEN REMOVED AND THE TIE RODS HAVE BEEN INSTALLED AND WRAPPED WITH TAPE. SEE ARTICLE 207 OF THE IDOT STANDARD SPECIFICATIONS.

THE CONTRACTOR SHALL DRIVE THREE (3) TEST PILES IN THE PERMANENT LOCATIONS: ONE (1) AT EACH ABUTMENT AND ONE (1) AT THE PIER AS DIRECTED BY THE ENGINEER BEFORE ORDERING THE REMAINDER OF PILES.

PROTECTIVE COAT (SPECIAL) SHALL BE APPLIED TO ALL EXPOSED SURFACES OF PIER IN THE MEDIAN. PROTECTIVE COAT (SPECIAL) SHALL BE APPLIED TO THE TOP AND TRAFFIC FACE OF ALL BRIDGE DECK BARRIERS, INCLUDING BARRIERS ON BRIDGE APPROACH SLABS.

RAISED BEARING AREAS SHALL BE CAST MONOLITHICALLY WITH THE REST OF THE STRUCTURE AND GROUND TO THE ELEVATIONS SHOWN.

PROTECTIVE COAT SHALL BE APPLIED TO THE BRIDGE DECK.

AFTER GIRDERS ARE SET, ALL ELEVATIONS FOR DETERMINING FILLET HEIGHTS SHALL BE TAKEN AT ONE TIME.

WHEN THE DECK POUR IS STOPPED FOR THE DAY AT ONE OR MORE OF THE TRANSVERSE BONDED CONSTRUCTION JOINTS IN THE DECK POURING SEQUENCE AS SHOWN, THE NEXT POUR SHALL NOT BE MADE UNTIL BOTH OF THE FOLLOWING REQUIREMENTS ARE MET.

1. AT LEAST 72 HOURS SHALL HAVE ELAPSED FROM THE END OF THE PREVIOUS POUR.
2. THE CONCRETE STRENGTH SHALL HAVE ATTAINED A MINIMUM FLEXURAL STRENGTH OF 650 PSI OR A COMPRESSIVE STRENGTH OF 3500 PSI.

UPON COMPLETION OF THE STRUCTURE, THE CONTRACTOR SHALL MEASURE THE RESULTING HORIZONTAL AND VERTICAL CLEARANCES AND SUBMIT THEM TO THE ENGINEER FOR REVIEW AND INCLUSION IN THE AS BUILT PLANS.

ALL CONSTRUCTION JOINTS SHALL BE BONDED.

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TOTAL BILL OF MATERIAL

I.D.O.T. PAY ITEM	DESCRIPTION	UNIT	SUPER	SUB	TOTAL	RECORD QUANTITY
50200100	STRUCTURE EXCAVATION	CU. YD.	----	1,069.2	1,069.2	
20700220	POROUS GRANULAR EMBANKMENT (SPECIAL)	CU. YD.	----	870.9	870.9	
X0323397	HIGH PERFORMANCE CONCRETE SUPERSTRUCTURE	CU. YD.	1,026.3	----	1,026.3	
50300225	CONCRETE STRUCTURES	CU. YD.	32.2	479.6	511.8	
X0322899	TRIAL BATCH	EACH	2	----	2	
50400735	FURNISHING AND ERECTING PRECAST PRESTRESSED CONCRETE BULB T-BEAM, 63"	FOOT	3,705	----	3,705	
50800205	REINFORCEMENT BARS, EPOXY COATED	POUND	238,070	63,390	301,460	
50100100	REMOVAL OF EXISTING STRUCTURES	EACH	----	----	2	
60107700	PIPE UNDERDRAINS 6"	FOOT	----	288	288	
51201600	FURNISHING STEEL PILES HP12X53	FOOT	----	6,242	6,242	
51202700	DRIVING STEEL PILES	FOOT	----	6,242	6,242	
51204600	METAL SHOES	EACH	----	157	157	
51203600	TEST PILE STEEL HP12X53	EACH	----	3	3	
42001400	BRIDGE APPROACH PAVEMENT (SPECIAL)	SQ. YD.	939	----	939	
51100100	SLOPE WALL 4 INCH	SQ. YD.	----	1,119	1,119	
50300300	PROTECTIVE COAT	SQ. YD.	3,095	----	3,095	
51205200	TEMPORARY SHEET PILING	SQ. FT.	----	2,105	2,105	
59100100	GEOCOMPOSITE WALL DRAIN	SQ. YD.	----	345.2	345.2	
50300260	BRIDGE DECK GROOVING	SQ. YD.	3,003	----	3,003	
Z002600	BAR SPLICERS	EACH	48	8	56	
X0323988	TEMPORARY SOIL RETENTION SYSTEM	SQ. FT.	----	2,740	2,740	
51204910	STEEL SHEET PILING (SPECIAL)	SQ. FT.	----	646	646	
50300300	PROTECTIVE COAT (SPECIAL)	SQ. YD.	530	575	1,105	

GENERAL NOTES & BILL OF MATERIAL  
N.W. TOLLWAY  
OVER IL 173 (F.A.P. ROUTE 303)  
SECTION 129K  
WINNEBAGO COUNTY  
STATION 443+73.62  
S.N. 101-9963 (SB) & 101-9964 (NB)  
TOLLWAY S.N. 703 (NB) & 704 (SB)

