

**LIST OF STANDARDS**

000001-06	STANDARD SYMBOLS, ABBREVIATIONS AND PATTERNS
001001-02	AREAS OF REINFORCEMENT BARS
001006	DECIMAL OF AN INCH AND OF A FOOT
442001-04	CLASS A PATCHES
442101-07	CLASS B PATCHES
601001-04	SUB-SURFACE DRAINS
601101-01	CONCRETE HEADWALL FOR PIPE DRAIN
630001-10	STEEL PLATE BEAM GUARDRAIL
630301-06	SHOULDER WIDENING FOR TYPE 1 (SPECIAL) GUARDRAIL TERMINALS
631011-09	TRAFFIC BARRIER TERMINAL, TYPE 2
631026-05	TRAFFIC BARRIER TERMINAL, TYPE 5
631031-12	TRAFFIC BARRIER TERMINAL, TYPE 6
631033-05	TRAFFIC BARRIER TERMINAL, TYPE 6B
635001-01	DELINEATORS
635006-03	REFLECTOR AND TERMINAL MARKER PLACEMENT
635011-02	REFLECTOR MARKER AND MOUNTING DETAILS
642001-02	SHOULDER RUMBLE STRIPS, 16 IN.
701101-04	OFF-ROAD OPERATIONS, MULTILANE, 15' (4.5m) TO 24" (600mm) FROM PAVEMENT EDGE
701106-02	OFF-ROAD OPERATIONS, MULTILANE, MORE THAN 15' (4.5m) AWAY
701301-04	LANE CLOSURE, 2L, 2W, SHORT TIME OPERATIONS
701306-03	LANE CLOSURE, 2L, 2W, SLOW MOVING OPERATIONS DAY ONLY, FOR SPEEDS > 45 MPH
701400-07	APPROACH TO LANE CLOSURE, FREEWAY / EXPRESSWAY
701401-08	LANE CLOSURE, FREEWAY / EXPRESSWAY
701402-09	LANE CLOSURE, FREEWAY / EXPRESSWAY, WITH BARRIER
701406-08	LANE CLOSURE, FREEWAY / EXPRESSWAY, DAY OPERATIONS ONLY
701411-08	LANE CLOSURE, MULTILANE, AT ENTRANCE OR EXIT RAMP, FOR SPEEDS > 45 MPH
701426-06	LANE CLOSURE, MULTILANE, INTERMITTENT OR MOVING OPERATION FOR SPEEDS > 45 MPH
701428	TRAFFIC CONTROL, SETUP AND REMOVAL, FREEWAY / EXPRESSWAY
701456-03	PARTIAL EXIT RAMP CLOSURE FREEWAY / EXPRESSWAY
701901-03	TRAFFIC CONTROL DEVICES
704001-07	TEMPORARY CONCRETE BARRIER
720001-01	SIGN PANEL MOUNTING DETAILS
720006-04	SIGN PANEL ERECTION DETAILS
720011-01	METAL POSTS FOR SIGNS, MARKERS AND DELINEATORS
720021-02	SIGN PANELS, EXTRUDED ALUMINUM TYPE
728001-01	TELESCOPING STEEL SIGN SUPPORT
729001-01	APPLICATIONS OF TYPES A AND B METAL POSTS ( FOR SIGNS & MARKERS)
780001-04	TYPICAL PAVEMENT MARKINGS
781001-03	TYPICAL APPLICATIONS RAISED REFLECTIVE PAVEMENT MARKERS

- THE THICKNESS OF THE HMA MIXTURE SHOWN ON THE PLANS IS THE NOMINAL THICKNESS. DEVIATIONS FROM THE NOMINAL THICKNESS WILL BE PERMITTED WHEN SUCH DEVIATIONS OCCUR DUE TO IRREGULARITIES IN THE EXISTING SURFACE OR BASE ON WHICH THE HMA MIXTURE IS PLACED.
- AN ESTIMATED 138,603 TONS OF HMA SURFACE COURSE TO BE REMOVED FROM STATION 2778+74.10 TO STATION 3038+61.99. THIS MATERIAL IS "UNCRUSHED GRAVEL" & RAP RESTRICTIONS APPLY PER SPECIAL PROVISIONS.
- NO OVERNIGHT LANE CLOSURES SHALL BE ALLOWED ON THIS PROJECT EXCEPT FOR PATCHING.
- ALL AREAS DISTURBED BY THE CONTRACTOR OUTSIDE THE PROPOSED CONSTRUCTION LIMITS SHALL BE SEEDER AT THE CONTRACTOR'S EXPENSE.
- "ROAD CONSTRUCTION AHEAD" SIGNS SHALL BE PLACED AT THE BEGINNING OF THE PROJECT PLUS ALL RAMPS AND WILL BE INCLUDED IN THE COST OF THE ASSOCIATED TRAFFIC CONTROL PAY ITEMS. ALL CONSTRUCTION SIGNS SHALL BE 48" FLUORESCENT ORANGE.
- A QUANTITY FOR TEMPORARY PAVEMENT MARKING EQUAL TO THE AMOUNT OF PERMANENT PAVEMENT MARKING HAS BEEN INCLUDED IN THE PLANS. ALL TEMPORARY PAVEMENT MARKING SHALL BE PLACED IN SUCH A WAY AS NOT TO INTERFERE WITH THE PLACEMENT OF PERMANENT PAVEMENT MARKING. REMOVAL OF TEMPORARY PAVEMENT MARKING SHALL BE PAID FOR AS "WORK ZONE PAVEMENT MARKING REMOVAL." (117,757 FOOT FOR 6" AND 949 FOOT FOR 8")
- APPROXIMATELY 230 SQUARE YARDS OF PCC PATCHES WITHIN THE PROJECT LIMITS WILL BE SUBJECT TO THE HMA SURFACE REMOVAL OPERATIONS OF THE DEPTHS SPECIFIED IN THE PLANS. THE COST OF MILLING THESE PATCHES SHALL BE INCLUDED IN THE CONTRACT UNIT PRICE OF THE HMA REMOVAL ITEMS IN THE CONTRACT AND NO ADDITIONAL COMPENSATION WILL BE ALLOWED.
- THE PORTABLE CHANGEABLE MESSAGE SIGNS SHALL BE PLACED AS DIRECTED BY THE ENGINEER. NO ADDITIONAL COMPENSATION SHALL BE ALLOWED FOR RELOCATION OF THESE SIGNS.
- PCC PATCHES SHALL BE POURED TO THE FULL DEPTH OF EXISTING PAVEMENT, WHICH MAY EXCEED THE NOMINAL DEPTH SHOWN IN THE PLANS.
- THE PAY FOR PERFORMANCE ITEMS AND QUANTITIES ARE AS FOLLOWS:  
 HMA POLY SURFACE COURSE - 16,458 TONS  
 HMA POLY FINE GRADE BINDER COURSE - 17,465 TONS  
 HMA BASE COURSE, 1 1/2" - 11,148 TONS
- DOUBLE LANE LINE MARKERS SHALL BE UTILIZED ACCORDING TO STANDARD 781001.

- FOR CLASS A PATCHES, THE REINFORCEMENT SHALL BE PLACED TO MATCH THE EXISTING CONCRETE PAVEMENT.
- FLAGGERS SHALL BE REQUIRED AT ALL TIMES DURING PATCHING OPERATIONS.
- THE CONTRACTOR SHOULD BE AWARE THERE ARE HORIZONTAL CURVES WITHIN THE PROJECT LIMITS THAT MAY BE SUPERELEVATED. THE CONTRACTOR SHALL VERIFY THE EXISTING SUPERELEVATION AND MATCH EXISTING CROSS-SLOPE. THESE CROSS-SLOPES MAY BE CONTRARY TO THE TYPICAL SECTIONS.
- THE RESIDENT ENGINEER SHALL VERIFY THE EXISTENCE OF UNDERGROUND HIGHWAY LIGHTING AND/OR I.T.S. FACILITIES WITHIN THE PROJECT LIMITS. IF HIGHWAY LIGHTING EXISTS WITHIN THE PROJECT LIMITS, AND IF THESE ITEMS REQUIRE LOCATING, THE CONTRACTOR SHALL BE DIRECTED TO DO SO ACCORDING TO SECTION 803 OF THE STANDARD SPECIFICATIONS. IF "LOCATING UNDERGROUND CABLE" IS NOT INCLUDED AS PART OF THE PLANS, THIS WORK SHALL BE PAID FOR ACCORDING TO ARTICLE 109.04 OF THE STANDARD SPECIFICATIONS.
- SHORT TERM PAVEMENT MARKING SHALL BE APPLIED TO THE MILLED SURFACE, PRIMED SURFACE, HMA BINDER COURSE, AND THE FINAL HMA SURFACE. ONLY REMOVAL FROM THE HOT-MIX ASPHALT SURFACE COURSE SHALL BE PAID FOR AS "WORK ZONE PAVEMENT MARKING REMOVAL (SQ FT)".
- ALL EARTHWORK REQUIRED TO MEET STD. 630301-06 SHALL BE INCLUDED IN THE COST OF TRAFFIC BARRIER TERMINAL, TYPE 1 (SPECIAL)

INDICATES PAYMENT INCLUDED IN COST OF ANOTHER ITEM.

**COMMITMENTS**

NONE

**INDEX OF SHEETS**

1	COVER
2	INDEX OF SHEETS, GENERAL NOTES, LIST OF STANDARDS & MIXTURE REQUIREMENTS
3-9	SUMMARY OF QUANTITIES
10-11	TYPICAL SECTIONS
12-21	SCHEDULE OF QUANTITIES
22-41	PLANS
42-46	STAGES OF CONSTRUCTION
47-49	EROSION AND SEDIMENT CONTROL DETAIL
50-55	MISCELLANEOUS DETAILS
56-59	SIGN PANEL DETAILS

**GENERAL NOTE**

- THE STANDARDS AND REVISION NUMBERS LISTED IN THE LIST OF STANDARDS SHALL APPLY TO THIS PROJECT.
- ILLINOIS STATE LAW REQUIRES A 48 HOUR NOTICE TO BE GIVEN TO ALL UTILITIES WITHIN THE PROJECT LIMITS BEFORE DIGGING. FIELD MARKING OF FACILITIES MAY BE OBTAINED BY CONTACTING J.U.L.I.E. OR FOR NON MEMBERS, THE UTILITY COMPANY DIRECTLY. AGENCIES KNOWN TO HAVE FACILITIES WITHIN THE PROJECT AREA ARE AS FOLLOWS:  

UTILITY	ABOVE GROUND	BELOW GROUND
•AMEREN ILLINOIS - ELECTRIC	X	X
•AT&T - COMMUNICATIONS		X
•BOND MADISON WATER COMPANY - WATER		X
•FRONTIER NORTH, INC. - COMMUNICATIONS		X
•CITY OF GREENVILLE - WATER & SANITARY SEWER		X
•NEW WAVE COMMUNICATIONS - CABLE TV	X	X
•ROYAL LAKES PUBLIC WATER DISTRICT - WATER & SANITARY SEWER		X
•VILLAGE OF SMITHBORO - WATER		
•SOUTHWESTERN ELECTRIC COOPERATIVE, INC. - ELECTRIC	X	
• J.U.L.I.E. MEMBERS - CONTACT NUMBER TOLL FREE (800) 892-0123 OR 811		
- THE CONTRACTOR AND THE ENGINEER SHALL BE AWARE THAT SOME SURVEY WAS PERFORMED FOR THIS PROJECT. THE STATIONING AND TOPOGRAPHY SHOWN IN THE PLANS WERE CREATED USING MICROFILM, FIELD MEASUREMENTS AND SURVEY. BOTH SHALL BE ASSUMED TO BE APPROXIMATE. THE CONTRACTOR SHALL VERIFY DIMENSIONS AND CONDITIONS IN THE FIELD PRIOR TO CONSTRUCTION AND ORDERING OF MATERIALS.

4. AN ESTIMATED QUANTITY OF 138,603 TONS OF HOT-MIX ASPHALT SURFACE WILL BE REMOVED. THE SURFACE REMOVAL THICKNESS OF THE EXISTING HMA OVERLAY MAY VARY FROM THAT SHOWN ON THE PLANS. NO ADDITIONAL PAYMENT WILL BE MADE FOR ACCOMODATING THE VARIATION IN EXISTING HMA THICKNESS.

**MIXTURE REQUIREMENTS**

ROUTE	FAI ROUTE 70
SECTION	3-SRS-3
COUNTY	BOND
CONTRACT	76021

DESCRIPTION:	INTERSTATE RESURFACING ON I-70 FROM BN RR TO FAYETTE COUNTY LINE
--------------	--

ADT (Construction Yr):	12300
MUX%:	38.7
SU%:	5.5
20 YR. ESAL'S:	28.87

MIXTURE USE	POLY SMA SURFACE	POLY BINDER	BASE COURSE	SHOULDERS ≥ 2.25"	SHOULDERS < 2.25"
AC/PG	SBS PG 76-22	SBS PG 76-22	PG 64-22	PG 64-22	PG 64-22
DESIGN AIR VOIDS	4.0% @ Ndes=80	4.0% @ Ndes=90	4.0% @ Ndes=90	**2.0% @ Ndes = 30	**2.0% @ Ndes = 30
MIX COMPOSITION				NMAS 3/4"	NMAS 1/2"
(GRADATION MIXTURE)		IL 19.0 FG	IL 19.0 FG		
FRICTION AGG	SMA	MIXTURE "B"	MIXTURE "B"		

\*\* TOP LIFT SHOULDERS - DESIGN THIS MIX AT 2.0% VOIDS AND ADD ASPHALT TO REDUCE VOIDS TO 1.5%

PLAN QUANTITIES FOR HMA SURFACE COURSE ITEMS ARE CALCULATED USING A UNIT WEIGHT OF 0.056 TONS/SQ YD/IN (0.002392 M TONS/sq m/25 mm thickness).

REV. 4-9-14