

IDOT HIGHWAY STANDARDS

280001-05 TEMPORARY EROSION CONTROL SYSTEMS
 420001-07 PAVEMENT JOINTS
 420101-04 24" (7.2M) JOINTED PCC PAVEMENT
 420401-08 BRIDGE APPROACH PAVEMENT CONNECTOR
 420601-05 24" (7.2M) PCC PAVEMENT
 420701-02 PAVEMENT FABRIC
 424001-05 CURB RAMPS FOR SIDEWALKS
 482006-03 HMA SHOULDER ADJACENT TO RIGID PAVEMENT
 515001-03 NAME PLATE FOR BRIDGES
 542201-02 REINFORCED CONCRETE END SECTIONS FOR PIPE CULVERTS 15" (375 mm)
 542301-02 THROUGH 36" (900 mm) DIAMETER SKEWED WITH ROADWAY
 542401-01 PRECAST REINFORCED CONCRETE FLARED END SECTION
 542401-01 METAL END SECTION FOR PIPE CULVERTS
 542601-02 REINFORCED CONCRETE PIPE ELBOW
 601001-03 SUB-SURFACE DRAINS
 601101-01 CONCRETE HEADWALL FOR PIPE DRAIN
 602301-02 INLET - TYPE A
 602306-02 INLET - TYPE B
 602401-02 MANHOLE TYPE A
 602406-03 MANHOLE, TYPE A, 1.8m (6') DIAMETER
 602601-02 PRECAST REINFORCED CONCRETE FLAT SLAB TOP
 602701-02 MANHOLE STEPS
 604001-03 FRAMES AND LIDS TYPE 1
 604006-04 FRAME AND GRATE TYPE 3
 604011-04 FRAME AND GRATE TYPE 3V
 604036-02 GRATE TYPE 8
 604066-02 FRAME AND LID, TYPE 15
 604071-04 FRAME AND GRATE TYPE 20
 606001-04 CONCRETE CURB TYPE B AND COMBINATION CONCRETE CURB AND GUTTER
 606301-04 PC CONCRETE ISLANDS AND MEDIANS
 606306-03 CORRUGATED PC CONCRETE MEDIANS
 630001-08 STEEL PLATE BEAM GUARDRAIL
 630301-05 SHOULDER WIDENING FOR TYPE 1 (SPECIAL) GUARDRAIL TERMINALS
 631011-06 TRAFFIC BARRIER TERMINAL, TYPE 2
 631031-08 TRAFFIC BARRIER TERMINAL, TYPE 6
 635001-01 DELINEATORS
 635006-03 REFLECTOR AND TERMINAL MARKER PLACEMENT
 635011-02 REFLECTOR MARKER AND MOUNTING DETAILS
 642001-01 SHOULDER RUMBLE STRIPS
 664001-02 CHAIN LINK FENCE
 665001-02 WOVEN WIRE FENCE

667101-01 PERMANENT SURVEY MARKERS
 701001-02 OFF-ROAD OPERATIONS, 2L, 2W, MORE THAN 15' (4.5 m) AWAY
 701006-03 OFF-ROAD OPERATIONS, 2L, 2W, 15' (4.5 m) TO 24" (600 mm) FROM PAVEMENT EDGE
 701101-02 OFF-ROAD OPERATIONS, MULTILANE, 4.5 m (15') TO 600 mm (24") FROM PAVEMENT EDGE
 701106-02 OFF-ROAD OPERATIONS, MULTILANE, MORE THAN 4.5 m (15') AWAY
 701301-03 LANE CLOSURE, 2L, 2W, SHORT TERM OPERATIONS
 701400-04 APPROACH TO LANE CLOSURE, FREEWAY/EXPRESSWAY
 701401-05 LANE CLOSURE, FREEWAY/EXPRESSWAY
 701402-07 LANE CLOSURE, FREEWAY/EXPRESSWAY, WITH BARRIER
 701406-05 LANE CLOSURE, FREEWAY/EXPRESSWAY, DAY OPERATIONS ONLY
 701411-06 LANE CLOSURE, MULTILANE, AT ENTRANCE OR EXIT RAMP, FOR SPEEDS > 45 MPH
 701606-06 URBAN LANE CLOSURE, MULTILANE, 2W WITH MOUNTABLE MEDIAN
 701901-01 TRAFFIC CONTROL DEVICES
 704001-06 TEMPORARY CONCRETE BARRIER
 720001-01 SIGN PANEL MOUNTING DETAILS
 720006-02 SIGN PANEL ERECTION DETAILS
 720011-01 METAL POSTS FOR SIGNS, MARKERS AND DELINEATORS
 720016-02 MAST ARM MOUNTED STREET NAME SIGNS
 720021-02 SIGN PANELS, EXTRUDED ALUMINUM TYPE
 729001-01 APPLICATIONS OF TYPES A AND B METAL POSTS (FOR SIGNS AND MARKERS)
 780001-02 TYPICAL PAVEMENT MARKINGS
 781001-03 TYPICAL APPLICATIONS RAISED REFLECTIVE PAVEMENT MARKERS
 805001-01 ELECTRICAL SERVICE INSTALLATION DETAILS
 814001-02 HANDHOLES
 814006-02 DOUBLE HANDHOLES
 825026 LIGHTING CONTROLLER, 480V, BASE MOUNTED
 836001 LIGHT POLE FOUNDATION
 857001-01 STANDARD PHASE DESIGNATION DIAGRAMS AND PHASE SEQUENCES
 862001-01 UNINTERRUPTABLE POWER SUPPLY
 873001-02 TRAFFIC SIGNAL GROUNDING AND BONDING
 876001-01 PEDESTRIAN PUSH BUTTON POST
 877001-04 STEEL MAST ARM ASSEMBLY AND POLE 16' THROUGH 55'
 877011-04 STEEL COMBINATION MAST ARM ASSEMBLY AND POLE 16' THROUGH 55'
 878001-08 CONCRETE FOUNDATION DETAILS
 880001-01 SPAN WIRE MOUNTED SIGNALS AND FLASHING BEACON INSTALLATION
 880006-01 TRAFFIC SIGNAL MOUNTING DETAILS
 886001-01 DETECTOR LOOP INSTALLATIONS
 886006-01 TYPICAL LAYOUTS FOR DETECTION LOOPS
 000001-05 STANDARD SYMBOLS, ABBREVIATIONS AND PATTERNS
 001001-02 AREAS OF REINFORCEMENT BARS
 001006 DECIMAL OF AN INCH AND OF A FOOT

INDEX OF SHEETS

1 COVER SHEET
 2-3 GENERAL NOTES, INDEX OF SHEETS AND STANDARDS
 4-7 SUMMARY OF QUANTITIES
 8-11 TYPICAL SECTIONS - EXISTING FAYETTE AVE
 12-15 TYPICAL SECTIONS - EXISTING RAMPS
 16-23 TYPICAL SECTIONS - PROPOSED FAYETTE AVE
 24 TYPICAL SECTIONS - I-57/70
 25-28 TYPICAL SECTIONS - PROPOSED RAMPS
 29 TYPICAL SECTIONS - PROPOSED FRONTAGE ROAD/ILLINI DRIVE
 30 TYPICAL SECTIONS - BIKE TRAIL
 31-36 SCHEDULE OF QUANTITIES
 37-40 HORIZONTAL CONTROL AND TIES
 41 SUPERELEVATION TABLES
 42-49 PLAN AND PROFILE - FAYETTE AVE
 50-57 PLAN AND PROFILE - I-57/70
 58-69 PLAN AND PROFILE - FAYETTE AVE RAMPS
 70 PLAN AND PROFILE - ILLINI DRIVE
 71-74 PLAN AND PROFILE - BIKE TRAIL
 75-146 MAINTENANCE OF TRAFFIC AND STAGE CONSTRUCTION DETAILS
 147-154 EROSION AND SEDIMENT CONTROL PLANS
 155-162 DRAINAGE PLAN
 163-169 DRAINAGE PROFILE
 170-181 DRAINAGE PLAN AND PROFILE - FAYETTE AVE RAMPS
 182-185 CHANNELIZED APPROACHES
 186-188 INTERSECTION DETAIL
 189 INTERSECTION DETAIL - FAYETTE AVE RAMPS
 190-192 PAVEMENT ELEVATION DETAIL
 193 PAVEMENT ELEVATION DETAIL - FAYETTE AVE RAMPS
 194-197 JOINTING DETAIL
 198 JOINTING DETAIL - FAYETTE AVE RAMPS
 199 INTERCHANGE LAYOUT - FAYETTE AVE.
 200 INTERCHANGE ROADWAY PLAN - FAYETTE AVE.
 201 INTERCHANGE GRADING - HORIZONTAL CONTROL.
 202 INTERCHANGE SHEAR LINE DETAIL - FAYETTE AVE.
 203 INTERCHANGE GRADING PLAN - FAYETTE AVE
 204-216 PAVEMENT MARKING PLANS
 217-226 SIGNING DETAILS
 227-236 TEMPORARY TRAFFIC SIGNAL PLANS
 237-262 TRAFFIC SIGNAL PLANS
 263-286 LIGHTING PLANS
 287-291 DETOUR SIGNING PLANS
 292-304 DELETED
 305-324 REMOVAL PLANS
 325-326 ENTRANCE DETAILS
 327 DELINEATOR DETAILS
 328 MISCELLANEOUS DETAILS
 329 BOX CULVERT DETAILS
 330-358 STRUCTURE PLANS - FAYETTE AVE (SN 025-0106)
 358A STRUCTURE PLANS - FAYETTE AVE (SN 025-0106)
 359-360 STRUCTURE PLANS - FAYETTE AVE (SN 025-0106)
 360A STRUCTURE PLANS - FAYETTE AVE (SN 025-0106)
 330-367 STRUCTURE PLANS - FAYETTE AVE (SN 025-0106)
 368-369 CULVERT PROFILES
 370-412 CROSS SECTIONS - FAYETTE AVE.
 413-445 CROSS SECTIONS - I-57/70
 446-529 CROSS SECTIONS - FAYETTE AVE. RAMPS & GRADING
 530-535 CROSS SECTIONS - SOUTH FRONTAGE RD & ILLINI DRIVE
 536-537 CROSS SECTIONS - BIKE TRAIL
 538-839 MOT CROSS SECTIONS

THE FOLLOWING RATES OF APPLICATION HAVE BEEN USED IN CALCULATING PLAN QUANTITIES:

NITROGEN FERTILIZER NUTRIENT	90	LBS / ACRE
PHOSPHORUS FERTILIZER NUTRIENT	90	LBS / ACRE
POTASSIUM FERTILIZER NUTRIENT	90	LBS / ACRE
AGRICULTURAL GROUND LIMESTONE	2	TONS / ACRE
MULCH, METHOD 2	2	TONS / ACRE
AGGREGATE (EROSION CONTROL)	1.9	TONS / CU YD
LIME	4.2	LBS / SQ YD / INCH
SLAG MODIFIED PORTLAND CEMENT	3.31	LBS / SQ YD / INCH
AGGREGATE FOR TEMPORARY ACCESS	2.0	TONS / CU YD
BITUMINOUS MATERIALS (PRIME COAT)	0.075	GAL / SQ YD
AGGREGATE (PRIME COAT)	0.0015	TONS / SQ YD
HOT-MIX ASPHALT SURFACE COURSE	0.056	TONS / SQ YD / INCH
BITUMINOUS MATERIALS (PRIME COAT)	0.375	GAL / SQ YD
AGGREGATE (PRIME COAT)	0.0015	TONS / SQ YD
INCIDENTAL HOT-MIX ASPHALT SURFACING	0.056	TONS / SQ YD / INCH
AGGREGATE SHOULDERS, TYPE B	2.0	TONS / CU YD

MIXTURE REQUIREMENTS
 THE FOLLOWING MIXTURE REQUIREMENTS ARE APPLICABLE FOR THIS PROJECT

	HMA SURFACE COURSE	STABILIZED SUBBASE HMA (OPTION)	HMA SHOULDERS	INCIDENTAL HOT-MIX ASPHALT SURFACING		
PG GRADE	PG 70-22	PG 64-22	PG 64-22	PG 64-22		
DESIGN AIR VOIDS	4.0% @ Ndes=105	4.0% @ Ndes=30	4.0% @ Ndes=30	4.0% @ Ndes=70		
MIXTURE COMPOSITION	IL-9.5	IL-19.0L	IL-19.0L	IL-9.5		
FRICITION AGGREGATE	MIXTURE D	N/A	N/A	MIXTURE C		