

08-03-12 LETTING ITEM 043

# STATE OF ILLINOIS DEPARTMENT OF TRANSPORTATION DIVISION OF HIGHWAYS PLANS FOR PROPOSED FEDERAL AID HIGHWAY

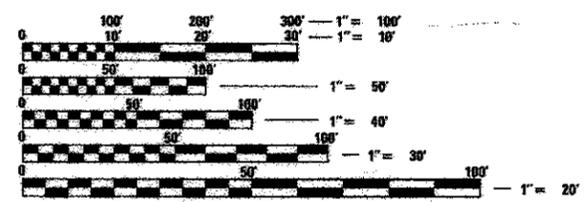
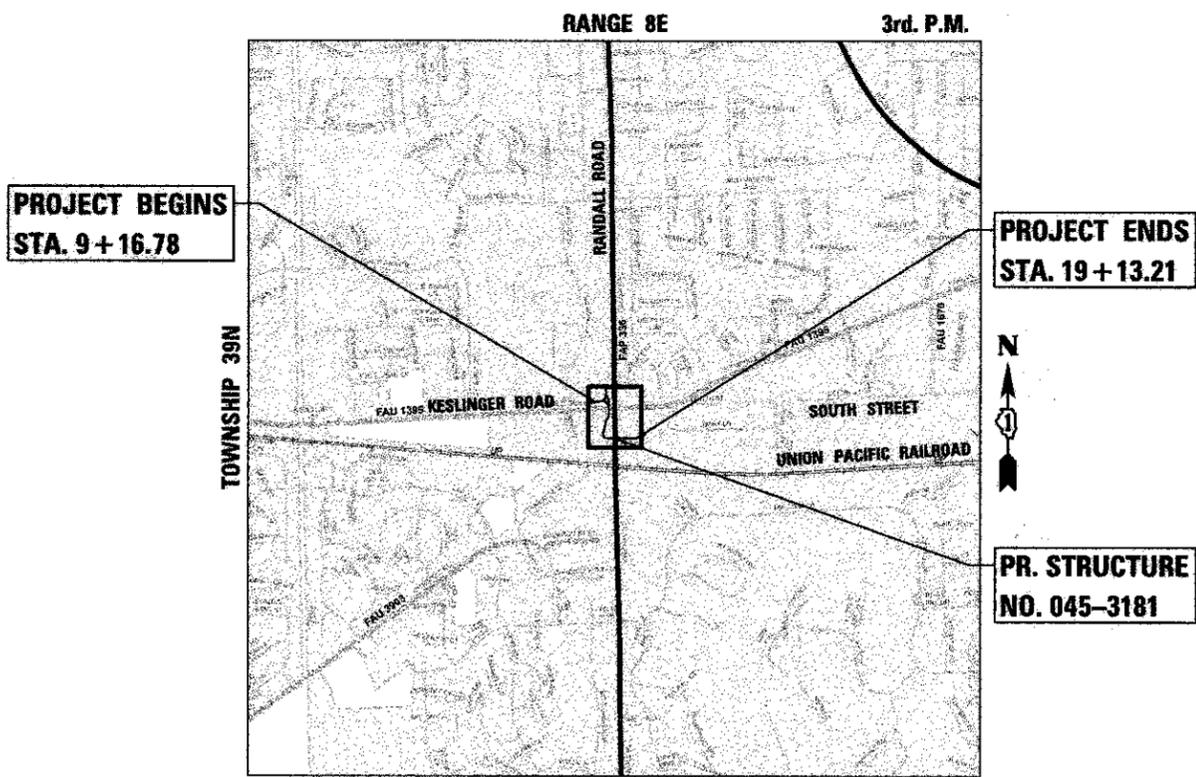
F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
0336	00-00259-00-BT	KANE	1	1
FED. ROAD DIST. NO.	ILLINOIS	CONTRACT NO. 63667		

FOR INDEX OF SHEETS, SEE SHEET NO. 2

**PROJECT LOCATED IN CITY OF GENEVA**

**RANDALL ROAD**  
DESIGN DESIGNATION: OTHER PRINCIPAL ARTERIAL  
TRAFFIC VOLUME: 37,000 ADT  
POSTED SPEED: 45 MPH

F.A.P. ROUTE 0336  
(SOUTH STREET TRAIL AT RANDALL ROAD)  
UNDERPASS  
SECTION 00-00259-00-BT  
PROJECT TE-00D1(805)  
KANE COUNTY  
JOB NO. C-91-586-09



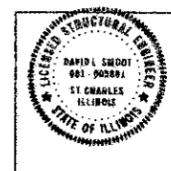
FULL SIZE PLANS HAVE BEEN PREPARED USING STANDARD ENGINEERING SCALES. REDUCED SIZED PLANS WILL NOT CONFORM TO STANDARD SCALES. IN MAKING MEASUREMENTS ON REDUCED PLANS, THE ABOVE SCALES MAY BE USED.

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

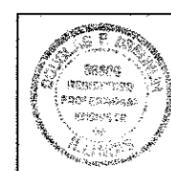
GENEVA TOWNSHIP  
PROJECT GROSS AND NET LENGTH = 996.4 LIN FT (0.189 MILE)  
PROJECT LOCATED IN:  
PARTS OF SECTIONS 5, 8, & 9, TOWNSHIP 39N, RANGE 8E, OF  
THE THIRD PRINCIPAL MERIDIAN, KANE COUNTY, ILLINOIS

WILLS BURKE KELSEY ASSOCIATES LTD.  
110 West Main Street, Suite 201  
St. Charles, Illinois 60174

PROGRAM AND OFFICE ENGINEER: CHARLES F. RIDDLE, P.E. (847) 705-4406 SCHAUMBURG, IL



DECEMBER 6, 2011  
*David Smoot*  
DAVID SMOOT  
ILLINOIS LICENSED STRUCTURAL ENGINEER NO. 081-005861  
EXPIRATION DATE 11-30-2012



DECEMBER 6, 2011  
*Douglas P. Breunlin*  
DOUGLAS P. BREUNLIN  
ILLINOIS REG. PROFESSIONAL ENGINEER NO. 062-036608  
EXPIRATION DATE 11-30-2013

STATE OF ILLINOIS  
DEPARTMENT OF TRANSPORTATION  
DIVISION OF HIGHWAYS

APPROVED DECEMBER 7, 2011  
*[Signature]*  
COUNTY ENGINEER, KANE COUNTY

PASSED MAY 21, 2012  
*[Signature]*  
DISTRICT 1 ENGINEER OF LOCAL ROADS & STREETS

RELEASING FOR BID  
BASED ON LIMITED  
REVIEW MAY 23, 2012  
*[Signature]*  
DEPUTY DIRECTOR OF HIGHWAYS, REGION 1 ENGINEER

**PRINTED BY THE AUTHORITY  
OF THE STATE OF ILLINOIS**

CONTRACT NO. 63667

**GENERAL NOTES**

- ALL CONSTRUCTION SHALL BE IN CONFORMANCE WITH THE APPLICABLE REQUIREMENT SET FORTH IN "THE CONSTRUCTION SPECIFICATIONS FOR ROAD AND BRIDGE CONSTRUCTION" ADOPTED JANUARY 1, 2012. THEREINAFTER REFERRED TO AS STANDARD SPECIFICATIONS, THE LATEST EDITION OF THE "ILLINOIS MANUAL ON UNIFORM TRAFFIC CONTROL DEVICES FOR STREETS AND HIGHWAYS" IN EFFECT ON THE DATE OF INVITATION FOR BIDS; THE "SUPPLEMENTAL SPECIFICATIONS AND RECURRING SPECIAL PROVISIONS" ADOPTED JANUARY 1, 2012; AS INCLUDED IN THE CONTRACT DOCUMENTS; AND THE DETAILS AND STANDARDS CONTAINED IN THESE PLANS.
- BEFORE STARTING ANY EXCAVATIONS, THE CONTRACTOR SHALL CALL "JULIE" AT 800-892-0123 OR 811 FOR FIELD LOCATIONS OF BURIED ELECTRIC, TELEPHONE AND GAS FACILITIES. (48 HOUR NOTIFICATION IS REQUIRED)
- THE CONTRACTOR SHALL COORDINATE CONSTRUCTION ACTIVITIES WITH ALL UTILITY COMPANIES, AND THE ENGINEER.
- THE CONTRACTOR WILL NOT BE ALLOWED TO SET UP A YARD OR FIELD OFFICE ON PUBLIC OR PRIVATE PROPERTY WITHOUT WRITTEN PERMISSION FROM ENGINEER.
- IT IS THE CONTRACTOR'S RESPONSIBILITY TO ASCERTAIN EXISTING FIELD CONDITIONS BEFORE BIDDING ON THIS PROJECT, SPECIFICALLY AS THEY RELATE TO LUMP SUM PAY ITEMS.
- BARRICADES: THE CONTRACTOR SHALL PROVIDE AND INSTALL TWO (2) WEIGHTED SANDBAGS ON EACH TYPE I OR TYPE II BARRICADE USED- ONE (1) WEIGHTED SAND BAG ACROSS EACH BOTTOM RAIL.
- ALL EXCAVATION AND EMBANKMENT LOCATIONS REQUIRING SEEDING OR SODDING SHALL BE CONSTRUCTED TO 6 IN BELOW FINISHED GRADE LINE TO ALLOW TOPSOIL PLACEMENT.
- MAINTENANCE OF TRAFFIC-GENERAL: TRAFFIC CONDITIONS, ACCIDENTS AND OTHER UNFORESEEN EMERGENCY CONDITIONS MAY REQUIRE THE ENGINEER TO RESTRICT, MODIFY OR REMOVE LANE CLOSURES OR CHANNELIZATION SHOWN IN THE PLANS. THE CONTRACTOR SHALL RESPOND WITHIN 30 MINUTES OF THE TIME OF NOTIFICATION BY THE ENGINEER FOR THE MAINTENANCE OF TRAFFIC CONTROL DEVICES.
- PAVEMENT GRADES: THE GRADES SHOWN ON THE PLANS ARE FINISHED GRADES OF PROPOSED PAVEMENT OR SURFACE COURSE, UNLESS OTHERWISE INDICATED.
- ALL EXISTING SIGNING SHALL BE MAINTAINED IN PLACE UNTIL NEW SIGNING IS ERECTED. REMOVAL OF EXISTING SIGNING SHALL NOT PROCEED UNTIL DIRECTED BY THE ENGINEER. THE CONTRACTOR SHALL COVER EXISTING SIGNING TO PREVENT CONFUSION AS DIRECTED BY THE ENGINEER. THE COST OF THIS REQUIREMENT SHALL BE CONSIDERED INCLUDED IN THE COST OF TRAFFIC CONTROL AND PROTECTION.
- THE CONTRACTOR SHALL PROVIDE ACCESS TO ABUTTING PROPERTY AT ALL TIMES DURING THE CONSTRUCTION OF THIS PROJECT.
- A SHRINKAGE FACTOR OF 15% WAS USED FOR EARTH EXCAVATION.
- SAW CUTS SHALL BE CONSIDERED INCLUDED IN THE WORK FOR PAVEMENT REMOVAL, DRIVEWAY REMOVAL, SIDEWALK REMOVAL AND CURB AND GUTTER REMOVAL.
- THE CONNECTION OF ALL EXISTING AND PROPOSED STORM SEWERS TO THE EXISTING AND PROPOSED STRUCTURES SHALL BE INCLUDED IN THE COST OF THE PROPOSED STORM SEWER SYSTEM.
- WHENEVER DURING CONSTRUCTION OPERATIONS ANY LOOSE MATERIAL IS DEPOSITED IN THE FLOW LINE OF DRAINAGE STRUCTURES, TEMPORARY DITCHES OR GUTTERS SO THAT THE NATURAL FLOW OF WATER IS OBSTRUCTED, IT SHALL BE REMOVED AT THE CLOSE OF EACH WORKING DAY AT THE CONCLUSION OF THE CONSTRUCTION OPERATIONS. ALL DRAINAGE STRUCTURES SHALL BE CLEANED AS NECESSARY TO INSURE THAT THEY ARE FREE FROM ALL DIRT AND DEBRIS PRIOR TO THE FINAL INSPECTION OF THE PROJECT. THIS WORK WILL NOT BE PAID SEPARATELY, BUT SHALL BE CONSIDERED INCLUDED IN THE COST OF DRAINAGE STRUCTURES OF THE TYPE SPECIFIED.
- A NOMINAL QUANTITY OF 250 CY OF POROUS GRANULAR EMBANKMENT, SUBGRADE HAS BEEN PROVIDED FOR POTENTIAL LOCATIONS WHERE SOILS TEND TO BE UNSTABLE WHEN WET. THE ACTUAL NEED FOR REMOVAL AND REPLACEMENT WITH PGE WILL BE DETERMINED IN THE FIELD AT THE TIME OF CONSTRUCTION BY THE ENGINEER (BY USE OF A CONE PENETROMETER IN CONJUNCTION WITH THE IDOT SUBGRADE STABILITY MANUAL, AND PROOF ROLLED USING A FULL LOAD SEMI). IF UNSTABLE AND/OR UNSUITABLE MATERIALS ARE NOT ENCOUNTERED, THEN THE QUANTITY SHALL BE DEDUCTED AND NO ADDITIONAL COMPENSATION WILL BE DUE TO THE CONTRACTOR.
- SURVEY LAYOUT: CONTRACTOR WILL PROVIDE SURVEY LAYOUT IN ACCORDANCE WITH CHECK SHEET #10. CONSTRUCTION LAYOUT STAKES, OF THE SUPPLEMENTAL SPECIFICATIONS AND RECURRING SPECIAL PROVISIONS. IN ADDITION TO THE LAYOUT REQUIREMENTS TO BE PERFORMED BY THE CONTRACTOR AS PART OF CHECK SHEET #10, HIS RESPONSIBILITIES WILL INCLUDE HORIZONTAL AND VERTICAL LAYOUT OF ALL POINTS ASSOCIATED WITH THE TUNNEL AND BIKE PATH IMPROVEMENTS WHICH INCLUDES, BUT SHALL NOT LIMITED TO, EARTHWORK, SUBBASE, CURB AND GUTTERS, DRAINAGE STRUCTURES, PAVEMENTS SURFACES, PLANTINGS AND LANDSCAPING, AND SHALL ALSO INCLUDE ALL LAYOUT ASSOCIATED WITH THE TUNNEL WORK, WHICH INCLUDES, BUT SHALL NOT LIMITED TO, PILING, WALLS, STRUCTURAL STEEL, HEADWALLS AND RAILINGS. THIS WORK WILL NOT BE PAID FOR SEPARATELY BUT IS CONSIDERED INCLUDED IN THE UNIT COST BID FOR CONSTRUCTION LAYOUT.
- EARTH EXCAVATION SHALL BE PAID FOR ONLY ONCE, REGARDLESS OF STAGING. STOCK PILING OF MATERIALS FOR LATER USE AND REDISTRIBUTION SHALL BE DONE AT THE CONTRACTOR'S EXPENSE. STOCK PILING NECESSARY FOR RESREADING, CONSTRUCTING EMBANKMENTS, CUT OR BORROW AREAS SHALL BE CONSIDERED INCLUDED IN THE UNIT PRICE FOR EARTH EXCAVATION.
- GEOTECHNICAL FABRIC GROUND STABILIZATION: ITEM NO. 2100100 GEOTECHNICAL FABRIC FOR GROUND STABILIZATION WILL ONLY BE UTILIZED IN AREAS THAT HAVE BEEN IDENTIFIED AS SUBGRADE UNDERCUTS AREAS OR WHERE DETERMINED IN THE FIELD BY A GEOTECHNICAL ENGINEER. THE FABRIC WILL BE USED IN COMBINATION WITH PGE.
- THE CONTRACTOR SHALL INCLUDE TEMPORARY FENCE PER SECTION 1081.15 FOR THE PROTECTION OF MAJOR UTILITY CABINETS, TREE PROTECTION, AND A NOMINAL 200 FEET TO BE LOCATED AT THE DIRECTION OF THE ENGINEER. THE FENCE SHALL BE ORANGE IN COLOR.
- AGGREGATE BASE COURSE, TYPE B SHALL MEET THE REQUIREMENTS LISTED IN SECTION 351 EXCEPT THAT THE MATERIAL TO BE USED SHALL BE IDOT GRADATION CA-6 CRUSHED LIMESTONE (MINIMUM IFR=80).
- FLASHING LIGHTS WILL BE PROVIDED BY THE CONTRACTOR ON BARRICADES AS REQUIRED BY THE ENGINEER. THESE LIGHTS SHALL MEET THE REQUIREMENTS OF THE STATE OF ILLINOIS MANUAL ON UNIFORM TRAFFIC CONTROL DEVICES.
- TRENCH BACKFILL CONSTRUCTION REQUIREMENTS SHALL MEET REQUIREMENTS LISTED IN SECTION 208 EXCEPT THAT THE MATERIAL TO BE USED SHALL BE IDOT GRADATION CA-6 CRUSHED LIMESTONE (MINIMUM IFR=80).
- ANY WORK (FINISHED CONCRETE, ASPHALT, ETC.), WHICH HAS BEEN VANDALIZED, WILL BE REPLACED, NOT REPAIRED, BY THE CONTRACTOR AT THEIR EXPENSE. IT IS RECOMMENDED BY KANE COUNTY DIVISION OF TRANSPORTATION THAT THE CONTRACTOR FINISH A NORMAL DAY'S CONCRETE POUR BY 2:00 P.M. TO ALLOW THE CONCRETE TO SET UP BEFORE THE CREWS LEAVE THE JOB.
- THE CONTRACTOR SHALL CONFINE ALL CONSTRUCTION OPERATIONS TO THE CONSTRUCTION LIMITS SHOWN ON THE PLANS. ANY DAMAGE TO AREAS OUTSIDE OF THE PROJECT CONSTRUCTION LIMITS RESULTING FROM THE CONTRACTOR'S OPERATIONS SHALL BE REPAIRED OR REPLACED BY THE CONTRACTOR AT HIS OWN EXPENSE TO THE SATISFACTION OF THE OWNER. NO EXTRA COMPENSATION WILL BE ALLOWED.
- FOR WORK OUTSIDE THE LIMITS OF BRIDGE APPROACH PAVEMENT, ALL REFERENCES IN THE HIGHWAY STANDARDS AND STANDARD SPECIFICATIONS FOR REINFORCEMENT, DOWEL BARS AND TIE BARS IN PAVEMENT, SHOULDERS, CURB, GUTTER, COMBINATION CURB AND GUTTER AND MEDIAN, AND CHAIR SUPPORTS FOR CRC PAVEMENT, SHALL BE EPOXY COATED, UNLESS NOTED ON THE PLAN.
- DEWATERING WILL NOT BE PAID FOR SEPARATELY, BUT SHALL BE CONSIDERED INCIDENTAL TO THE RESPECTIVE PAY ITEM.

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- 000001-06 STANDARD SYMBOLS, ABBREVIATIONS AND PATTERNS
- 001001-02 AREA OF REINFORCEMENT BARS
- 280001-06 TEMPORARY EROSION CONTROL SYSTEMS
- 424001-06 PERPENDICULAR CURB RAMPS FOR SIDEWALKS
- 515001-03 NAME PLATE FOR BRIDGES
- 542301-03 PRECAST REINFORCED CONCRETE FLARED END SECTION
- 601001-04 SUB-SURFACE DRAINS
- 601101-01 CONCRETE HEADWALL FOR PIPE DRAIN
- 602011-02 CATCH BASIN TYPE C
- 602301-03 INLET - TYPE A
- 602306-03 INLET - TYPE B
- 604001-03 FRAME AND LIDS TYPE 1
- 604036-02 GRATE TYPE 8
- 606001-04 CONCRETE CURB TYPE B AND COMBINATION CONCRETE CURB AND GUTTER
- 630001-10 STEEL PLATE BEAM GUARDRAIL
- 631011-08 TRAFFIC BARRIER TERMINAL, TYPE 2
- 701001-02 OFF-RD OPERATIONS, 2L, 2W, MORE THAN 15' (4.5 m) AWAY
- 701006-03 OFF-RD OPERATION 2L, 2W, 15' (4.5 m) TO 24" (600 mm) FROM PAVEMENT EDGE
- 701011-02 OFF-RD MOVING OPERATIONS, 2L, 2W, DAY ONLY
- 701101-02 OFF-RD OPERATIONS, MULTILANE, 15' (4.5 m) TO 24" (600 mm) FROM PAVEMENT EDGE
- 701106-02 OFF-RD OPERATIONS, MULTILANE, MORE THAN 15' (4.5 m) AWAY
- 701201-04 LANE CLOSURE, 2L, 2W, DAY ONLY, FOR SPEEDS >= 45 MPH
- 701426-04 LANE CLOSURE, MULTILANE, INTERMITTENT OR MOVING OPER., FOR SPEEDS >= 45 MPH
- 701601-07 URBAN LANE CLOSURE, MULTILANE, 1W OR 2W WITH NONTRAVERSABLE MEDIAN
- 701701-08 URBAN LANE CLOSURE, MULTILANE INTERSECTION
- 701801-05 SIDEWALK CORNER OR CROSSWALK CLOSURE
- 701901-02 TRAFFIC CONTROL DEVICES
- 720001-01 SIGN PANEL MOUNTING DETAILS
- 720006-03 SIGN PANEL ERECTION DETAILS
- 728001-01 TELESCOPING STEEL SUPPORT
- 780001-03 TYPICAL PAVEMENT MARKINGS
- 878001-09 CONCRETE FOUNDATION DETAILS
- 880006-01 TRAFFIC SIGNAL MOUNTING DETAILS

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- TC-10 TRAFFIC CONTROL AND PROTECTION FOR SIDE ROADS, INTERSECTIONS, AND DRIVEWAYS
- TC-13 DISTRICT ONE TYPICAL PAVEMENT MARKINGS
- TC-22 ARTERIAL ROAD INFORMATION SIGN
- TS-05 DISTRICT ONE STANDARD TRAFFIC SIGNAL DESIGN DETAILS (6 SHEETS)
- TS-07 DISTRICT 1 - DETECTOR LOOP INSTALLATION DETAILS FOR ROADWAY RESURFACING

**CITY OF GENEVA - LIGHTING REQUIREMENT**

- ELECTRICAL NOTE: A LAMINATE COPY OF THE ONE LINE CIRCUIT DIAGRAM SHALL BE PLACED IN THE PEDESTRIAN TUNNEL LIGHTING CABINET. THE COST OF PROVIDING LAMINATE COPY SHALL NOT BE PAID FOR BUT SHALL BE INCLUDED IN THE COST OF LIGHTING WORK.

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- 66-68 CROSS SECTIONS - BOX CULVERT & CHANNEL
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- 78-79 CROSS SECTIONS - RANDALL BRANCH TRAIL

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**WILLS BURKE KELSEY ASSOCIATES LTD.**  
 110 West Main Street, Suite 201  
 St. Charles, Illinois 60114

USER NAME = rperis	DESIGNED - DPB	REVISED -
PLOT SCALE = AS SHOWN	DRAWN - NDP	REVISED -
PLOT DATE = 5/18/2012	CHECKED - DPB	REVISED -
	DATE - 5/14/12	REVISED -

**STATE OF ILLINOIS  
DEPARTMENT OF TRANSPORTATION**

<b>GENERAL NOTES, INDEX OF SHEETS &amp; INDEX OF STANDARDS</b>	
SCALE: AS SHOWN	SHEET NO. 2 OF 79 SHEETS STA. TO STA.

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
0336	00-00259-00-BT	KANE	79	2
CONTRACT NO. 63667				
FED. ROAD DIST. NO. ILLINOIS FED. AID PROJECT				

SPECIALTY ITEM	CODE NO.	ITEM	UNIT	TOTAL QUANTITY	CONSTRUCTION TYPE CODE		
					80% FEDERAL 20% STATE		NON-PARTICIPATING 100% LOCAL
					BICYCLE/PEDESTRIAN 0028 URBAN	TRAINEES 0042 URBAN	
	20100110	TREE REMOVAL (6 TO 15 UNITS DIAMETER)	UNIT	64	64		
	20100210	TREE REMOVAL (OVER 15 UNITS DIAMETER)	UNIT	50	50		
	20101000	TEMPORARY FENCE	FOOT	250	250		
	20101100	TREE TRUNK PROTECTION	EACH	3	3		
*	20101700	SUPPLEMENTAL WATERING	UNIT	50	50		
	20200100	EARTH EXCAVATION	CU YD	245	245		
	20201200	REMOVAL AND DISPOSAL OF UNSUITABLE MATERIAL	CU YD	870	870		
	20300100	CHANNEL EXCAVATION	CU YD	215	215		
	20400800	FURNISHED EXCAVATION	CU YD	230	230		
	20800150	TRENCH BACKFILL	CU YD	10	10		
	21001000	GEOTECHNICAL FABRIC FOR GROUND STABILIZATION	SQ YD	750	750		
*	21101625	TOPSOIL FURNISH AND PLACE, 6"	SQ YD	5,350	5,350		
*	21101645	TOPSOIL FURNISH AND PLACE, 12"	SQ YD	152	152		
	21400100	GRADING AND SHAPING DITCHES	FOOT	120	120		
*	25000115	SEEDING, CLASS 1B	ACRE	0.75	0.75		
*	25000210	SEEDING, CLASS 2A	ACRE	0.25	0.25		
*	25000300	SEEDING, CLASS 3	ACRE	0.25	0.25		
*	25000310	SEEDING, CLASS 4	ACRE	0.05	0.05		
*	25000320	SEEDING, CLASS 5	ACRE	0.05	0.05		
*	25000400	NITROGEN FERTILIZER NUTRIENT	POUND	79	79		
*	25000500	PHOSPHORUS FERTILIZER NUTRIENT	POUND	79	79		
*	25000600	POTASSIUM FERTILIZER NUTRIENT	POUND	79	79		
*	25100630	EROSION CONTROL BLANKET	SQ YD	4,600	4,600		
*	25100635	HEAVY DUTY EROSION CONTROL BLANKET	SQ YD	850	850		
*	28000250	TEMPORARY EROSION CONTROL SEEDING	POUND	319	319		
	28000305	TEMPORARY DITCH CHECKS	FOOT	140	140		
	28000400	PERIMETER EROSION BARRIER	FOOT	870	870		
	28000500	INLET AND PIPE PROTECTION	EACH	5	5		
	28000510	INLET FILTERS	EACH	3	3		
	28100105	STONE RIPRAP, CLASS A3	SQ YD	275	275		
	28200200	FILTER FABRIC	SQ YD	275	275		
	35102200	AGGREGATE BASE COURSE, TYPE B 10"	SQ YD	1,112	1,112		
	40600200	BITUMINOUS MATERIALS (PRIME COAT)	TON	2	2		

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 116 West Main Street, Suite 201  
 St. Charles, Illinois 60174

USER NAME = nporris	DESIGNED - DPB	REVISED -
PLOT SCALE = AS SHOWN	DRAWN - NDP	REVISED -
PLOT DATE = 5/11/2012	CHECKED - DPB	REVISED -
	DATE - 5/14/12	REVISED -

**STATE OF ILLINOIS  
DEPARTMENT OF TRANSPORTATION**

SUMMARY OF QUANTITIES			
SCALE: AS SHOWN	SHEET NO. 3	OF 79 SHEETS	STA. TO STA.

F.A.P. RTE. 0336	SECTION 00-00259-00-BT	COUNTY KANE	TOTAL SHEETS 79	SHEET NO. 3
CONTRACT NO. 63667				
FED. ROAD DIST. NO. [ILLINOIS] FED. AID PROJECT				

SPECIALTY ITEM	CODE NO.	ITEM	UNIT	TOTAL QUANTITY	CONSTRUCTION TYPE CODE		
					80% FEDERAL 20% STATE		NON-PARTICIPATING 100% LOCAL
					BICYCLE/PEDESTRIAN 0028 URBAN	TRAINEES 0042 URBAN	
	40603335	HOT-MIX ASPHALT SURFACE COURSE, MIX "D", N50	TON	121	121		
	42001300	PROTECTIVE COAT	SQ YD	103	103		
	42400300	PORTLAND CEMENT CONCRETE SIDEWALK 6 INCH	SQ FT	396	396		
	42400800	DETECTABLE WARNINGS	SQ FT	47	47		
	44000500	COMBINATION CURB AND GUTTER REMOVAL	FOOT	75	75		
	44000600	SIDEWALK REMOVAL	SQ FT	2,478	2,478		
	50105220	PIPE CULVERT REMOVAL	FOOT	18	18		
	50200100	STRUCTURE EXCAVATION	CU YD	519	519		
	50200450	REMOVAL AND DISPOSAL OF UNSUITABLE MATERIAL FOR STRUCTURES	CU YD	303	303		
	50300225	CONCRETE STRUCTURES	CU YD	140	140		
	50300285	FORM LINER TEXTURED SURFACE	SQ FT	1,235	1,235		
	50800205	REINFORCEMENT BARS, EPOXY COATED	POUND	9,060	9,060		
	51500100	NAME PLATES	EACH	1	1		
	54001001	BOX CULVERT END SECTIONS, CULVERT NO. 1	EACH	2	2		
	54010604	PRECAST CONCRETE BOX CULVERTS 6' X 4'	FOOT	32	32		
	54213657	PRECAST REINFORCED CONCRETE FLARED END SECTIONS 12"	EACH	2	2		
	54213660	PRECAST REINFORCED CONCRETE FLARED END SECTIONS 15"	EACH	2	2		
	54247090	GRATING FOR CONCRETE FLARED END SECTION 12"	EACH	2	2		
	54247100	GRATING FOR CONCRETE FLARED END SECTION 15"	EACH	2	2		
	542A0220	PIPE CULVERTS, CLASS A, TYPE 1 15"	FOOT	50	50		
	550A0050	STORM SEWERS, CLASS A, TYPE 1 12"	FOOT	63	63		
	59100100	GEOCOMPOSITE WALL DRAIN	SQ YD	94	94		
	60100060	CONCRETE HEADWALLS FOR PIPE DRAINS	EACH	3	3		
	60107600	PIPE UNDERDRAINS 4"	FOOT	48	48		
	60107700	PIPE UNDERDRAINS 6"	FOOT	150	150		
	60207605	CATCH BASINS, TYPE C, TYPE 8 GRATE	EACH	1	1		
	60235300	INLETS, TYPE A, TYPE 1 FRAME, CLOSED LID	EACH	1	1		
	60236200	INLETS, TYPE A, TYPE 8 GRATE	EACH	1	1		
	60240215	INLETS, TYPE B, TYPE 1 FRAME, CLOSED LID	EACH	1	1		
	60255500	MANHOLES TO BE ADJUSTED	EACH	1	1		
	60265700	VALVE VAULTS TO BE ADJUSTED	EACH	1	1		
	60603800	COMBINATION CONCRETE CURB AND GUTTER, TYPE B-6.12	FOOT	18	18		
	60605000	COMBINATION CONCRETE CURB AND GUTTER, TYPE B-6.24	FOOT	47	47		

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**WILLS BURKE KELSEY ASSOCIATES LTD.**  
 115 West Main Street, Suite 201  
 St. Charles, Illinois 60114

USER NAME = nparr18	DESIGNED - DPB	REVISED -
PLOT SCALE = AS SHOWN	DRAWN - NDP	REVISED -
PLOT DATE = 5/11/2012	CHECKED - DPB	REVISED -
	DATE - 5/14/12	REVISED -

**STATE OF ILLINOIS  
DEPARTMENT OF TRANSPORTATION**

SUMMARY OF QUANTITIES			
SCALE: AS SHOWN	SHEET NO. 4	OF 79 SHEETS	STA. TO STA.

F.A.P. RTE. 0336	SECTION 00-00259-00-BT	COUNTY KANE	TOTAL SHEETS 79	SHEET NO. 4
FED. ROAD DIST. NO. ILLINOIS FED. AID PROJECT			CONTRACT NO. 63667	

SPECIALTY ITEM	CODE NO.	ITEM	UNIT	TOTAL QUANTITY	CONSTRUCTION TYPE CODE		
					80% FEDERAL 20% STATE		NON-PARTICIPATING 100% LOCAL
					BICYCLE/PEDESTRIAN 0028 URBAN	TRAINEES 0042 URBAN	
*	6300001	STEEL PLATE BEAM GUARDRAIL, TYPE A, 6 FOOT POSTS	FOOT	32	32		
*	63100045	TRAFFIC BARRIER TERMINAL, TYPE 2	EACH	1	1		
	63200310	GUARDRAIL REMOVAL	FOOT	106	106		
	67000400	ENGINEER'S FIELD OFFICE, TYPE A	CAL MO	11	11		
	67100100	MOBILIZATION	L SUM	1	1		
	70100450	TRAFFIC CONTROL AND PROTECTION, STANDARD 701201	L SUM	1	1		
	70102630	TRAFFIC CONTROL AND PROTECTION, STANDARD 701601	L SUM	1	1		
	70102635	TRAFFIC CONTROL AND PROTECTION, STANDARD 701701	L SUM	1	1		
	70102640	TRAFFIC CONTROL AND PROTECTION, STANDARD 701801	L SUM	1	1		
*	72000100	SIGN PANEL - TYPE 1	SQ FT	72	72		
*	72400100	REMOVE SIGN PANEL ASSEMBLY - TYPE A	EACH	1	1		
*	72800100	TELESCOPING STEEL SIGN SUPPORT	FOOT	121	121		
*	78009000	MODIFIED URETHANE PAVEMENT MARKING - LETTERS AND SYMBOLS	SQ FT	73	73		
*	78009004	MODIFIED URETHANE PAVEMENT MARKING - LINE 4"	FOOT	213	213		
*	78009006	MODIFIED URETHANE PAVEMENT MARKING - LINE 6"	FOOT	323	323		
*	78009008	MODIFIED URETHANE PAVEMENT MARKING - LINE 8"	FOOT	143	143		
*	78009012	MODIFIED URETHANE PAVEMENT MARKING - LINE 12"	FOOT	604	604		
*	78009024	MODIFIED URETHANE PAVEMENT MARKING - LINE 24"	FOOT	35	35		
*	78200410	GUARDRAIL MARKERS, TYPE A	EACH	4	4		
*	78201000	TERMINAL MARKER - DIRECT APPLIED	EACH	2	2		
*	78300100	PAVEMENT MARKING REMOVAL	SQ FT	672	672		
*	80400100	ELECTRIC SERVICE INSTALLATION	EACH	1	1		
*	81028200	UNDERGROUND CONDUIT, GALVANIZED STEEL, 2" DIA.	FOOT	165	165		
*	81028210	UNDERGROUND CONDUIT, GALVANIZED STEEL, 2 1/2" DIA.	FOOT	8	8		
*	81028240	UNDERGROUND CONDUIT, GALVANIZED STEEL, 4" DIA.	FOOT	112	112		
*	81028310	UNDERGROUND CONDUIT, PVC, 3/4" DIA.	FOOT	115	115		
*	81028320	UNDERGROUND CONDUIT, PVC, 1" DIA.	FOOT	75	75		
*	81100100	CONDUIT ATTACHED TO STRUCTURE, 1/2" DIA., GALVANIZED STEEL	FOOT	70	70		
*	81100300	CONDUIT ATTACHED TO STRUCTURE, 1" DIA., GALVANIZED STEEL	FOOT	250	250		
*	81300220	JUNCTION BOX, STAINLESS STEEL, ATTACHED TO STRUCTURE, 6" X 6" X 4"	EACH	4	4		
*	81300980	JUNCTION BOX, STAINLESS STEEL, EMBEDDED IN STRUCTURE, 8" X 8" X 6"	EACH	2	2		
*	81702110	ELECTRIC CABLE IN CONDUIT, 600V (XLP-TYPE USE) 1/C NO. 10	FOOT	2,800	2,800		
*	81702400	ELECTRIC CABLE IN CONDUIT, 600V (XLP-TYPE USE) 3-1/C NO. 2	FOOT	185	185		

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**WILLS BURKE KELSEY ASSOCIATES LTD.**  
 116 West Main Street, Suite 201  
 St. Charles, Illinois 60174

USER NAME = nperria	DESIGNED - DPB	REVISED -
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PLOT DATE = 5/11/2012	CHECKED - DPB	REVISED -
	DATE - 5/14/12	REVISED -

**STATE OF ILLINOIS  
DEPARTMENT OF TRANSPORTATION**

SUMMARY OF QUANTITIES			
SCALE: AS SHOWN	SHEET NO. 5 OF 79 SHEETS	STA.	TO STA.

F.A.P. RTE. 0336	SECTION 00-00259-00-BT	COUNTY KANE	TOTAL SHEETS 79	SHEET NO. 5
CONTRACT NO. 63667			ILLINOIS FED. AID PROJECT	

SPECIALTY ITEM	CODE NO.	ITEM	UNIT	TOTAL QUANTITY	CONSTRUCTION TYPE CODE		
					80% FEDERAL 20% STATE		NON-PARTICIPATING 100% LOCAL
					BICYCLE/PEDESTRIAN 0028 URBAN	TRAINEES 0042 URBAN	
*	82500335	LIGHTING CONTROLLER, PEDESTAL MOUNTED, 240VOLT, 100AMP	EACH	1	1		
*	85000200	MAINTENANCE OF EXISTING TRAFFIC SIGNAL INSTALLATION	EACH	1	1		
*	87300010	GROUNDING EXISTING HANDHOLE FRAME AND COVER	EACH	1	1		
*	87301215	ELECTRIC CABLE IN CONDUIT, SIGNAL NO. 14 2C	FOOT	620	620		
*	87301225	ELECTRIC CABLE IN CONDUIT, SIGNAL NO. 14 3C	FOOT	630	630		
*	87301255	ELECTRIC CABLE IN CONDUIT, SIGNAL NO. 14 7C	FOOT	740	740		
*	87301900	ELECTRIC CABLE IN CONDUIT, EQUIPMENT GROUNDING CONDUCTOR, NO. 6 1C	FOOT	150	150		
*	87502500	TRAFFIC SIGNAL POST, GALVANIZED STEEL 16 FT.	EACH	1	1		
*	87800100	CONCRETE FOUNDATION, TYPE A	FOOT	4	4		
*	87900200	DRILL EXISTING HANDHOLE	EACH	2	2		
*	88030220	SIGNAL HEAD, LED, 2-FACE, 5-SECTION, BRACKET MOUNTED	EACH	1	1		
*	88102717	PEDESTRIAN SIGNAL HEAD, LED, 1-FACE, BRACKET MOUNTED WITH COUNTDOWN TIMER	EACH	2	2		
*	88600100	DETECTOR LOOP, TYPE I	FOOT	48	48		
*	88800100	PEDESTRIAN PUSH-BUTTON	EACH	2	2		
*	89502200	MODIFY EXISTING CONTROLLER	EACH	1	1		
*	89502375	REMOVE EXISTING TRAFFIC SIGNAL EQUIPMENT	EACH	1	1		
*	89502385	REMOVE EXISTING CONCRETE FOUNDATION	EACH	1	1		
*	A2002916	TREE, CELTIS OCCIDENTALIS (COMMON HACKBERRY), 2" CALIPER, BALLED AND BURLAPPED	EACH	3	3		
*	A2004624	TREE, GLEDITSIA TRIACANTHOS INERMIS (THORNLESS COMMON HONEYLOCUST), 3" CALIPER, BALLED AND BURLAPPED	EACH	2	2		
*	A2005670	TREE, OSTRYA VIRGINIANA (AMERICAN HOPHORNBEAM), 8' HEIGHT, CLUMP FORM, BALLED AND BURLAPPED	EACH	1	1		
*	B2004166	TREE, MALUS PRAIRIFIRE (PRAIRIFIRE CRABAPPLE), 6' HEIGHT, CLUMP FORM, BALLED AND BURLAPPED	EACH	2	2		
*	C2005812	SHRUB, RHUS AROMATICA GRO-LOW (GRO-LOW FRAGRANT SUMAC), 2' HEIGHT, BALLED AND BURLAPPED	EACH	18	18		
*	C2005930	SHRUB, RHUS COPALLINA VAR LATIFOLIA MORTON (PRAIRIE FLAME SHINING SUMAC), 3' HEIGHT, BALLED AND BURLAPPED	EACH	6	6		
*	K0012990	PERENNIAL PLANTS, ORNAMENTAL TYPE, GALLON POT	UNIT	3.3	3.3		
*	K0012993	PERENNIAL PLANTS, ORNAMENTAL TYPE, 3-GALLON POT	UNIT	1.6	1.6		
*	K1003660	MOWING CYCLES	EACH	10			10
	X0320622	FIELD MEASUREMENTS	L SUM	1	1		
	X0321158	PARK BENCHES	EACH	2	2		
	X0321865	ANTI-GRAFFITI PROTECTION SYSTEM	SQ FT	1,201			1,201
*	X0325170	PLANTING BED PREPARATION	SQ FT	1,364	1,364		
*	X0326629	TYPE 'G' EMERGENCY LIGHT BATTERY UNIT WALL MOUNTED	EACH	2	2		
	X0326806	WASHOUT BASIN	L SUM	1	1		
	X0327036	BIKE PATH REMOVAL	SQ YD	95	95		

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USER NAME = nparris	DESIGNED - DPB	REVISED -
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**STATE OF ILLINOIS  
DEPARTMENT OF TRANSPORTATION**

SUMMARY OF QUANTITIES	
SCALE: AS SHOWN	SHEET NO. 6 OF 79 SHEETS STA. TO STA.

F.A.P. RTE. 0336	SECTION 00-00259-00-BT	COUNTY KANE	TOTAL SHEETS 79	SHEET NO. 6
FED. ROAD DIST. NO.		ILLINOIS FED. AID PROJECT		
CONTRACT NO. 63667				

SPECIALTY ITEM	CODE NO.	ITEM	UNIT	TOTAL QUANTITY	CONSTRUCTION TYPE CODE		
					80% FEDERAL 20% STATE		NON-PARTICIPATING 100% LOCAL
					BICYCLE/PEDESTRIAN 0028 URBAN	TRAINEES 0042 URBAN	
	X2070304	POROUS GRANULAR EMBANKMENT, SPECIAL	CU YD	125	125		
	X2111110	TOPSOIL PLACEMENT	CU YD	96	96		
	X2130010	EXPLORATION TRENCH, SPECIAL	FOOT	100	100		
	X4240440	PORTLAND CEMENT CONCRETE SIDEWALK 6 INCH, SPECIAL	SQ FT	342	342		
*	X5090100	FURNISH AND INSTALL HANDRAIL	FOOT	280	280		
	X5420612	PIPE CULVERTS TO BE CLEANED 12"	FOOT	43			43
*	X6310176	TRAFFIC BARRIER TERMINAL, TYPE 2 (SPECIAL)	EACH	1	1		
	X6640300	CHAIN LINK FENCE REMOVAL	FOOT	136	136		
	X7010238	CHANGEABLE MESSAGE SIGN, SPECIAL	CAL MO	12	12		
*	X8250500	LIGHTING UNIT COMPLETE, SPECIAL	EACH	12	12		
	XX006224	COATING SYSTEM FOR CONCRETE	SQ FT	3,960	3,960		
	XX007023	STAINING CONCRETE STRUCTURES	SQ YD	134	134		
	XX008645	TEMPORARY INFORMATIONAL SIGNS	EACH	4	4		
	Z0013797	STABILIZED CONSTRUCTION ENTRANCE	SQ YD	195	195		
	Z0013798	CONSTRUCTION LAYOUT	L SUM	1	1		
	Z0028700	GRANULAR SUBGRADE REPLACEMENT	CU YD	303	303		
*	Z0033044	RE-OPTIMIZE TRAFFIC SIGNAL SYSTEM LEVEL 1	EACH	1	1		
	X0326160	POROUS GRANULAR EMBANKMENT, SUBGRADE (SPECIAL)	CU YD	250	250		
	Z0046304	PIPE UNDERDRAINS FOR STRUCTURES 4"	FOOT	172	172		
	Z0076600	TRAINEES	HOUR	500		500	
*	XX008689	CONCRETE JACKING PIPE SPECIAL, TUNNELED	FOOT	140	140		
*	XX008690	LIMESTONE OUTCROPPING	TON	94	94		
*	XX008691	ALUMINUM RAILING, SPECIAL	FOOT	116	116		

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**WILLS BURKE KELSEY ASSOCIATES LTD.**  
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USER NAME = nperris	DESIGNED - DPB	REVISED -
PLOT SCALE = AS SHOWN	DRAWN - NDP	REVISED -
PLOT DATE = 5/11/2012	CHECKED - DPB	REVISED -
	DATE - 5/14/12	REVISED -

**STATE OF ILLINOIS  
 DEPARTMENT OF TRANSPORTATION**

**SUMMARY OF QUANTITIES**  
 SCALE: AS SHOWN | SHEET NO. 7 OF 79 SHEETS | STA. TO STA.

F.A.P. RTE. 0336	SECTION 00-00259-00-BT	COUNTY KANE	TOTAL SHEETS 79	SHEET NO. 7
FED. ROAD DIST. NO. ILLINOIS FED. AID PROJECT				

CONTRACT NO. 63667

# EARTHWORK SCHEDULE

LOCATION	END AREAS			EARTH WORK						SUBGRADE IMPROVEMENT					
	TOPSOIL STRIPPING (TSS)	CUT (C)	FILL (F)	20201200 REMOVAL & DISPOSAL OF UNSUITABLE MATERIAL	TUNNEL EXCAVATION (SEE NOTE 9)	20300100 CHANNEL EXCAVATION	50200100 STRUCTURE EXCAVATION (SEE NOTE 9)	20200100 EARTH EXCAVATION	EMBANKMENT	20400800 BALANCE WASTE (+) or SHORTAGE (-) <FURN. EXC.>	20201200 REMOVAL & DISPOSAL OF UNSUITABLE MATERIAL	20042002 POROUS GRANULAR EMBANKMENT SUBGRADE	21001000 GEOTECHNICAL FABRIC FOR GROUND STABILIZATION	50200450 REM/DISP UNS MATL STRUCTURES	Z0028700 GRANULAR SUBGRADE REPLACEMENT
	(SQ FT)	(SQ FT)	(SQ FT)	(CU YD)	(CU YD)	(CU YD)	(CU YD)	(CU YD)	(CU YD)	(CU YD)	(CU YD)	(CU YD)	(SQ YD)	(CU YD)	(CU YD)
MAIN ALIGNMENT															
9+16.80	8.0	2.8	0.1												
9+25.00	8.5	2.3	0.1	2.51				0.77	0.03	+0.62					
9+50.00	12.5	2.5	0.6	9.72				2.22	0.32	+1.57					
9+75.00	15.2	0.8	2.6	12.82				1.53	1.48	-0.18					
10+00.00	10.3	0.0	11.1	11.81				0.37	6.34	-6.03					
10+25.00	17.6	0.0	39.4	12.92				0.00	23.38	-23.38					
10+50.00	19.1	0.0	68.9	16.99				0.00	50.14	-50.14					
10+75.00	17.6	0.0	58.1	16.99				0.00	58.80	-58.80					
11+00.00	18.5	0.0	19.9	16.71				0.00	36.11	-36.11					
12+00.00	17.3	8.5	4.1	66.30				15.74	44.44	-31.06					
12+25.00	18.2	0.0	50.5	16.44				3.94	25.28	-21.93					
12+50.00	27.6	3.7	94.3	21.20				1.71	67.04	-65.59					
12+75.00	27.2	2.8	99.8	25.37				3.01	89.86	-87.30					
13+00.00	27.0	0.0	120.3	25.09				1.30	101.90	-100.80					
13+25.00	22.8	0.1	96.7	23.06				0.05	101.39	-101.35					
13+50.00	23.6	0.6	73.3	21.48				0.32	79.63	-79.36					
13+75.00	21.5	0.2	63.3	20.88				0.37	63.24	-62.93					
14+00.00	21.8	2.6	63.5	19.95				1.30	58.70	-57.60					
14+25.00	25.3	2.6	82.9	21.71				2.41	67.78	-65.73					
14+50.00	22.3	1.3	80.5	22.04				1.81	75.65	-74.11					
14+75.00	22.9	0.4	79.5	20.93				0.79	74.07	-73.40					
15+00.00	24.5	2.3	85.9	21.94				1.25	76.57	-75.51					
15+25.00	20.8	1.1	57.5	20.97				1.57	66.39	-65.06					
15+50.00	17.7	9.9	13.3	17.82				5.09	32.78	-28.45					
15+75.00	0.0	131.2	0.0	8.19				65.32	6.16	+49.36					
15+81.91	0.0	157.3	0.0	0.00				36.92	0.00	+31.38					
TUNNEL					798.20					+678.47					
17+21.91	0.0	158.3	0.0												
17+25.00	0.0	105.2	0.0	0.00				15.08	0.00	+12.82					
17+50.00	12.5	0.0	24.3	5.79				48.70	11.25	+30.15					
17+59.40	24.1	0.0	128.1	6.37				0.00	26.53	-26.53					
17+75.00	18.4	4.9	42.2	12.28				1.42	49.20	-47.99					
18+00.00	16.1	6.9	21.6	15.97				5.46	29.54	-24.90					
18+25.00	15.2	6.9	10.0	14.49				6.39	14.63	-9.20					
18+50.00	14.4	3.5	17.0	13.70				4.81	12.50	-8.41					
18+75.00	15.5	0.3	19.0	13.84				1.76	16.67	-15.17					
19+00.00	0.0	8.9	5.0	7.18				4.26	11.11	-7.49					
19+25.00	0.0	6.2	0.4	0.00				6.99	2.50	+3.44					
END SECTIONS							519.00			+406.30			303.00		303.00
NORTH BRANCH															
9+43.00	8.6	2.7	0.7												
9+50.00	9.6	2.8	0.7	2.36				0.71	0.18	+0.42					
9+75.00	8.3	0.0	1.6	8.29				1.30	1.06	+0.04					
10+00.00	11.0	0.0	18.1	8.94				0.00	9.12	-9.12					
10+25.00	13.9	0.0	34.0	11.53				0.00	24.12	-24.12					
10+50.00	14.3	0.0	61.3	13.06				0.00	44.12	-44.12					
10+75.00	1.1	0.0	22.5	7.13				0.00	38.80	-38.80					
11+00.00				1.02				0.00	20.83	-20.83					
CHANNEL															
1+00.00	0.0	0.0	0.0												
1+25.00	0.0	25.1	1.7			11.63									
1+50.00	0.0	36.1	0.0			28.32									
1+75.00	0.0	50.8	0.0			40.19									
2+00.00	0.0	52.0	0.0			47.56									
2+03.00	0.0	27.6	0.0			4.42									
2+25.00	0.0	15.4	0.0			17.52									
2+47.00	0.0	28.1	0.0			17.71									
2+50.00	0.0	54.5	0.0			4.59									
2+75.00	0.0	38.5	0.0			43.07									
3+00.00	0.0	0.0	0.0												
EST. UNSUIT.											250.00		250.00	750.00	
<b>TOTAL</b>				<b>615.8</b>		<b>215.0</b>	<b>519.0</b>	<b>244.7</b>	<b>1,519.6</b>	<b>-226.9</b>	<b>250.0</b>	<b>250.0</b>	<b>750.0</b>	<b>303.0</b>	<b>303.0</b>
<b>SHRINKAGE FACTOR</b>	<b>15%</b>		<b>ADJ. TOTAL</b>	<b>620.0</b>		<b>215.0</b>	<b>519.0</b>	<b>245.0</b>	<b>1,520.0</b>	<b>230.0</b>					

- EARTHWORK GENERAL NOTES**
- ALL EARTHWORK QUANTITIES ARE CALCULATED BY THE METHOD OF AVERAGE END AREAS USING THE PLAN CROSS SECTIONS.
  - SHRINKAGE FACTOR, ASSUMED TO BE 15% FOR THIS PROJECT IS ESTIMATED FOR THE PURPOSE OF DETERMINING A BALANCE OF EARTHWORK. THE CONTRACTOR SHALL ESTIMATE HIS OWN SHRINKAGE FACTORS IN DETERMINING HIS EARTHWORK. NO PAYMENT WILL BE MADE ON EARTHWORK QUANTITIES DUE TO VARIATION IN THE SHRINKAGE FACTOR SINCE EARTHWORK IS MEASURED IN ITS FINAL POSITION.
  - RECOMMENDATIONS OUTLINED IN THE "REPORT OF SOILS EXPLORATION" PREPARED BY TESTING SERVICE CORP., DATED FEB. 15, 2010 WERE USED IN PREPARATION OF THE ROADWAY PLANS AND RELATED QUANTITY CALCULATIONS.
  - SIX (6) INCHES WAS ASSUMED ON THIS PROJECT FOR THE PURPOSE OF CALCULATING TOPSOIL STRIPPING QUANTITIES.
  - IF UNDERCUTS ARE ENCOUNTERED, UNDERCUTS WILL BE PAID FOR AS REMOVAL AND DISPOSAL OF UNSUITABLE MATERIAL. AFTER TOPSOIL STRIPPING AND VEGETATION CLEARING AND PRIOR TO UNDERCUTTING, THE SUBGRADE WILL BE TESTED WITH A STATIC OR DYNAMIC CONE PENETROMETER IN ACORDANCE WITH THE IDOT SUBGRADE STABILITY MANUAL TO DETERMINE REMEDIAL TREATMENT.
  - TESTING OF SUBGRADES AND EMBANKMENTS WILL BE REQUIRED. TESTING REQUIRMENTS WILL BE PER THE APPLICABLE SECTIONS OF THE STANDARD SPECIFICATIONS AND THE SUBGRADE STABILITY MANUAL. IF PROOF ROLLS ARE REQUIRED BY THE ENGINEER, THE COST SHALL BE CONSIDERED INCLUDED IN THE COST OF EXCAVATION.
  - A NOMINAL 250 CY OF POROUS GRANULAR EMBANKMENT SUBGRADE HAS BEEN ESTIMATED TO ESTABLISH A UNIT PRICE FOR POSSIBLE LOCATIONS WHERE SOILS TEND TO BE UNSTABLE WHEN WET. THE ACTUAL NEED FOR REMOVAL AND REPLACEMENT WITH PGES WILL BE DETERMINED IN THE FIELD AT THE TIME OF CONSTRUCTION BY THE SOILS ENGINEER (BY USE OF A CONE PENETROMETER IN CONJUNCTION WITH THE IDOT SUBGRADE STABILITY MANUAL AND ROLL USING FULL LOAD SEMI), IF UNSUITABLE AND/OR UNSTABLE MATERIALS ARE NOT ENCOUNTERED.
  - EARTH EXCAVATION SHALL BE PAID FOR ONLY ONCE, REGARDLESS OF STAGING OR SEQUENCING OF CONTRACTORS OPERATIONS THAT REQUIRE STOCKPILING OF MATERIALS FOR LATER USE FOR REDISTRIBUTION AND RESPREADING IN SHOULDERS AND CONSTRUCTING OF EMBANKMENTS.
  - FOR EARTHWORK COMPUTATION IT HAS BEEN ASSUMED THAT THE EXCAVATED MATERIALS FROM THE TUNNEL, WINGWALLS AND END SECTIONS WILL BE USED IN THE CONSTRUCTION OF THE BICYCLE PATH EMBANKMENTS ("CONCRETE JACKING PIPE SPECIAL, TUNNELED" AND "STRUCTURE EXCAVATION"). IT HAS BEEN ESTIMATED THAT 41 CU YD OF STRUCTURE EXCAVATION IS TOPSOIL AND THAT AMOUNT HAS BEEN EXCLUDED IN THE EARTHWORK BALANCE COLUMN.
  - SEE SHEET 39 FOR STRUCTURAL UNDERCUT INFORMATION.

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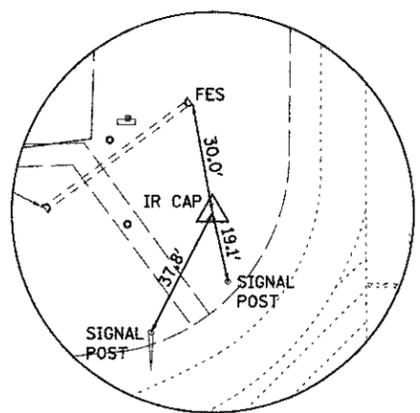
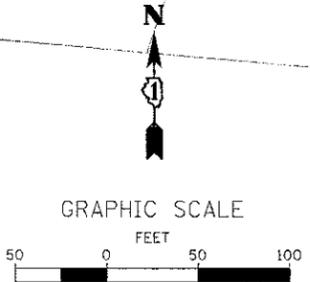
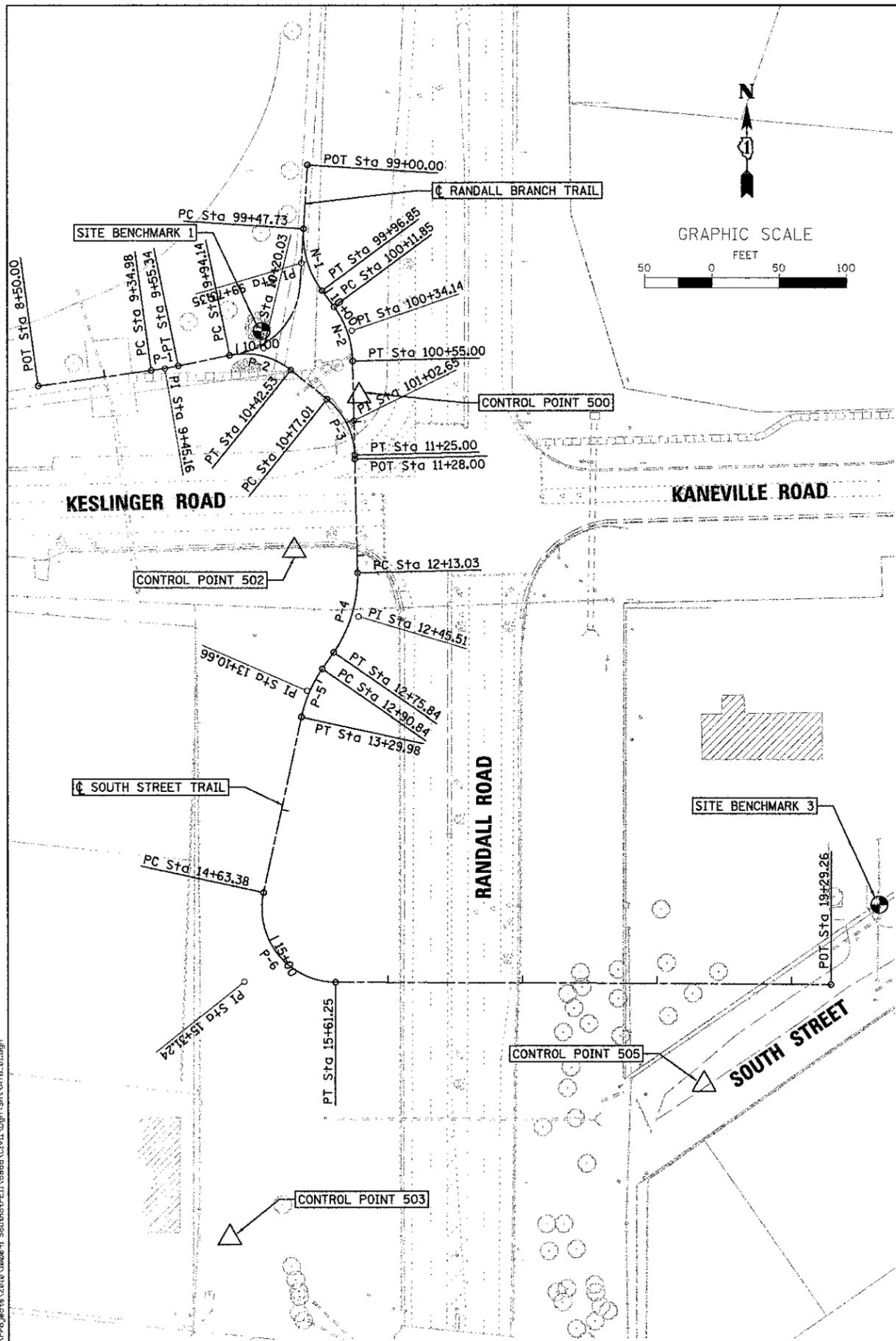
**WILLS BURKE KELSEY ASSOCIATES LTD.**  
 110 West Main Street, Suite 201  
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USER NAME = #USER#	DESIGNED - DPB	REVISED -
PLOT SCALE = AS SHOWN	DRAWN - NDP	REVISED -
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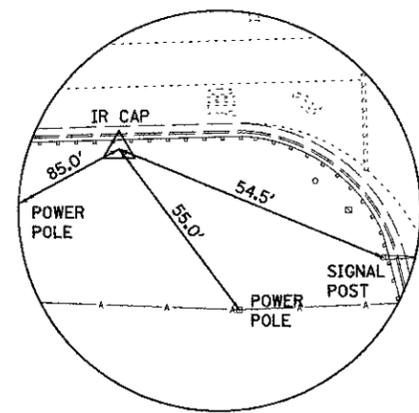
**STATE OF ILLINOIS  
DEPARTMENT OF TRANSPORTATION**

<b>EARTHWORK SCHEDULE</b>	
SCALE: AS SHOWN	SHEET NO. 8 OF 79 SHEETS STA. TO STA.

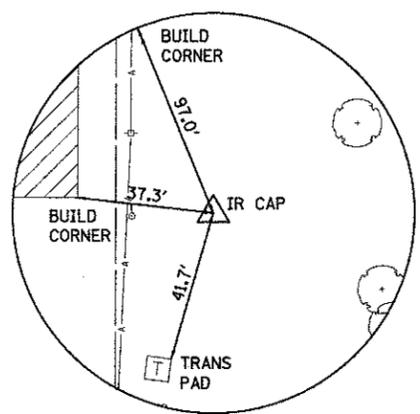
F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
0336	00-00259-00-BT	KANE	79	8
CONTRACT NO. 63667				
FED. ROAD DIST. NO. [ILLINOIS] FED. AID PROJECT				



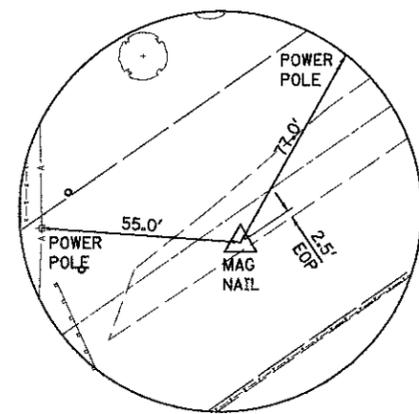
HORIZONTAL CONTROL POINT NO. 500



HORIZONTAL CONTROL POINT NO. 502



HORIZONTAL CONTROL POINT NO. 503



HORIZONTAL CONTROL POINT NO. 508

**LEGEND**

- = BENCHMARK LOCATION
- △ = HORIZONTAL CONTROL POINT LOCATION

**CURVE DATA**

PROP. CURVE	PI STA.	Δ	D	R	T	L	E	P.C. STA.	P.T. STA.
PROP. CURVE SST_N-1	99+73.35	40° 12' 42" (LT)	81° 51' 04"	70.00'	25.62'	49.13'	4.54'	99+47.73	99+96.85
PROP. CURVE SST_N-2	100+34.14	35° 18' 55" (RT)	81° 51' 04"	70.00'	22.28'	43.15'	3.46'	100+11.85	100+55.00
PROP. CURVE SST_P-1	9+45.16	3° 53' 20" (LT)	19° 05' 55"	300.00'	10.18'	20.36'	0.17'	9+34.98	9+55.34
PROP. CURVE SST_P-2	10+20.03	50° 24' 56" (RT)	104° 10' 27"	55.00'	25.89'	48.40'	5.79'	9+94.14	10+42.53
PROP. CURVE SST_P-3	11+02.65	50° 00' 00" (RT)	104° 10' 27"	55.00'	25.65'	48.00'	5.63'	10+77.01	11+25.00
PROP. CURVE SST_P-4	12+45.51	35° 59' 24" (RT)	57° 17' 45"	100.00'	32.48'	62.81'	5.14'	12+13.03	12+75.84
PROP. CURVE SST_P-5	13+10.66	22° 25' 31" (LT)	57° 17' 45"	100.00'	19.82'	39.14'	1.95'	12+90.84	13+29.98
PROP. CURVE SST_P-6	15+31.24	101° 57' 25" (LT)	104° 10' 27"	55.00'	67.87'	97.87'	32.36'	14+63.38	15+61.25

HORIZONTAL CONTROL POINTS							
POINT	NORTH	EAST	ELEVATION	CHAIN	STATION	OFFSET	DESCRIPTION
500	1900080.661	982255.534	763.250	SST_MAIN	10+82.903	6.929' LT	SET IRON ROD WITH CAP
502	1899965.317	982207.234	764.770	SST_MAIN	11+95.416	46.647' RT	SET IRON ROD WITH CAP
503	1899454.792	982158.344	753.030	SST_MAIN	15+44.279	202.339' RT	SET IRON ROD WITH CAP
508	1899568.038	982511.125	751.760	SST_MAIN	18+35.268	74.974' RT	MAGNETIC NAIL IN PAVEMENT

**BENCHMARKS**  
DATUM 1929

**REFERENCE BENCHMARK (NOT SHOWN)**

STANDARD USGS DISK FLUSH WITH CONCRETE SIDEWALK AS ESTABLISHED BY U.S.C.&G.S. IN 1935 ON NATIONAL GEODETIC VERTICAL DATUM OF 1929, LOCATED AT THE NORTHWEST CORNER OF CAMPBELL STREET AND 3RD STREET IN GENEVA, ILLINOIS. ELEVATION = 719.49

**SITE BENCHMARK 1**

SQUARE CUT IN SOUTHEAST CORNER OF CONCRETE PAD OF COMMUNICATION VAULT APPROXIMATELY 100 FEET WEST OF RANDALL ROAD AND 100 FEET NORTH OF KESLINGER ROAD. ELEVATION = 760.63

**SITE BENCHMARK 2 (NOT SHOWN)**

NORTHWEST TAG BOLT ON FIRE HYDRANT LOCATED ON THE NORTH SIDE OF KESLINGER ROAD APPROXIMATELY 200 FEET WEST OF DELNOR ROAD. ELEVATION = 767.09

**SITE BENCHMARK 3**

NORTHEAST BONNET BOLT ON FIRE HYDRANT LOCATED ON THE NORTH SIDE OF SOUTH STREET APPROXIMATELY 350 FEET SOUTHWEST OF GARY LANE. ELEVATION = 752.48

**SITE BENCHMARK 4 (NOT SHOWN)**

SQUARE CUT ON THE TOP OF PARAPET WALL AT THE NORTHEAST CORNER OF RANDALL ROAD BRIDGE OVER THE CHICAGO AND NORTHWESTERN RAILWAY COMPANY TRACKS APPROXIMATELY 400 FEET SOUTH OF KESLINGER ROAD. ELEVATION = 779.98

FILE NAME = W:\Projects\2012\020991\_SouthStPEIT\Road\Drawings\Sheet\9.B.dwg

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St. Charles, Illinois 60174

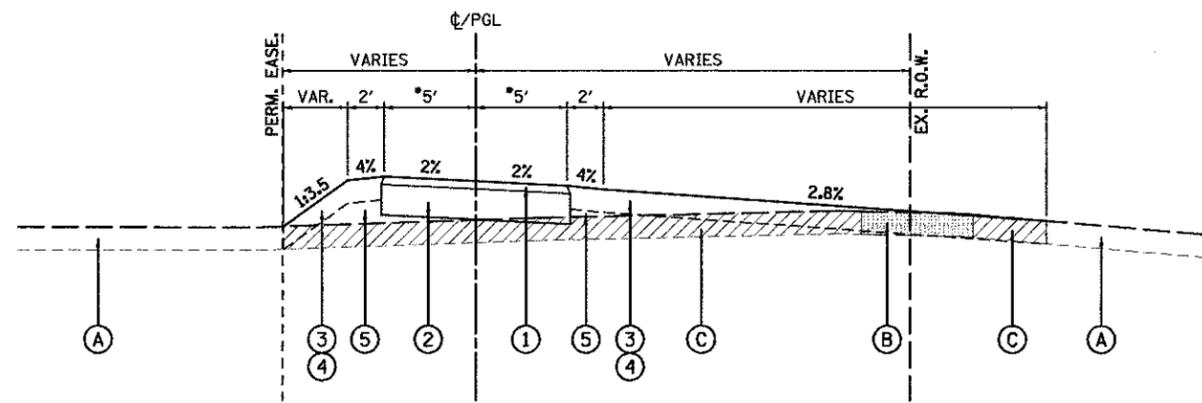
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PLOT DATE = 5/11/2012	CHECKED - DPB	REVISED -
	DATE - 5/14/12	REVISED -

**STATE OF ILLINOIS**  
**DEPARTMENT OF TRANSPORTATION**

**ALIGNMENT, TIES & BENCHMARKS**

SCALE: AS SHOWN SHEET NO. 9 OF 79 SHEETS STA. TO STA.

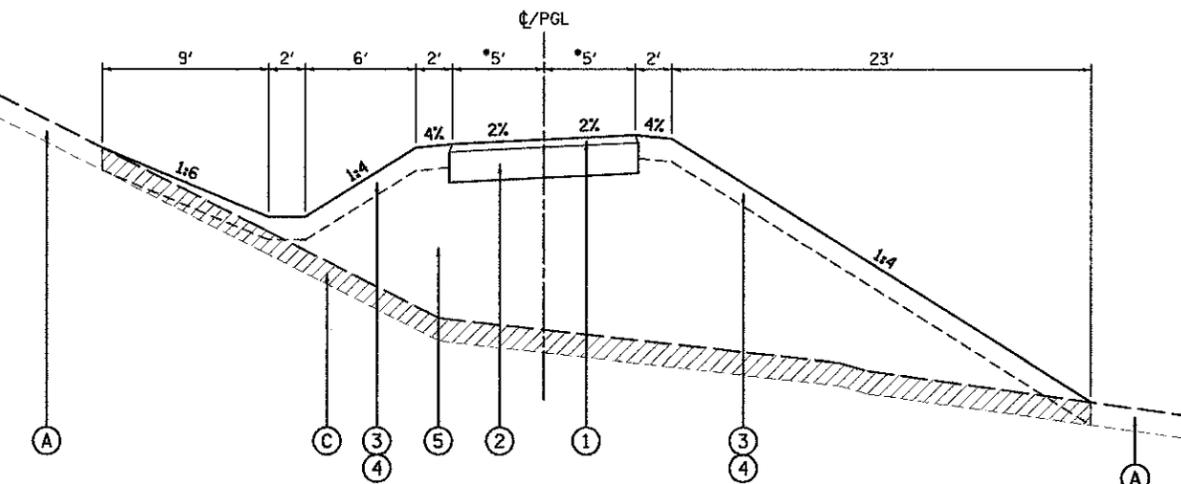
F.A.P. RTE. 0336	SECTION 00-00259-00-BT	COUNTY KANE	TOTAL SHEETS 79	SHEET NO. 9
CONTRACT NO. 63667				
FED. ROAD DIST. NO. ILLINOIS FED. AID PROJECT				



**TYPICAL SECTION NO. 1**

SOUTH STREET TRAIL  
STA. 8+95.44 TO STA. 11+10.85

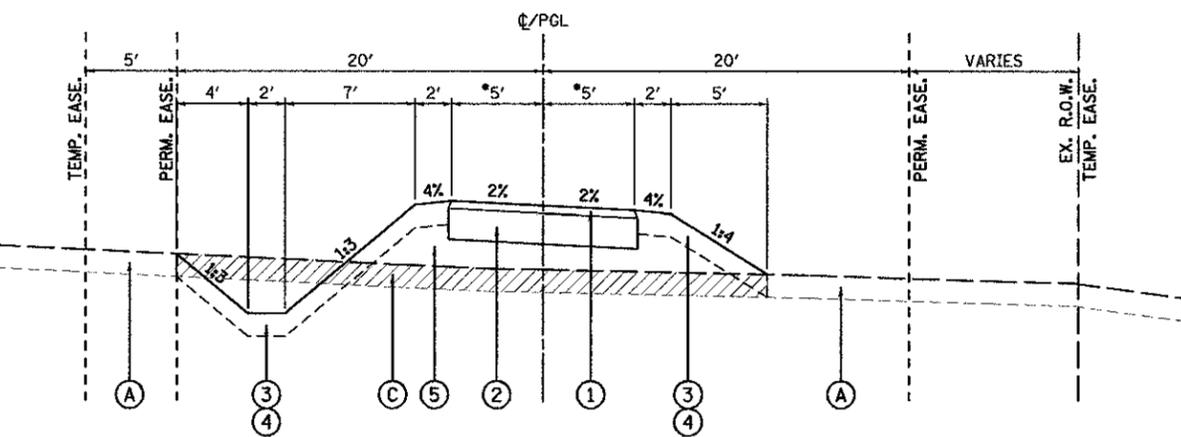
\*STA. 8+95.44 TO STA. 8+98.49  
PATH IS 6' WIDE, THEN TAPERS  
TO 10' WIDE FROM STA. 8+98.49  
TO STA. 9+18.49



**TYPICAL SECTION NO. 2**

SOUTH STREET TRAIL  
STA. 11+94.73 TO STA. 15+81.88  
(TUNNEL OMISSION STA. 15+81.88 TO STA. 17+21.88)

\*STA. 15+76.88 TO STA. 15+81.88  
PATH TAPERS FROM 10' WIDE  
TO 8.5' WIDE



**TYPICAL SECTION NO. 3**

SOUTH STREET TRAIL  
STA. 17+21.88 TO STA. 19+13.20

\*STA. 17+21.88 TO STA. 17+26.88  
PATH TAPERS FROM 8.5' WIDE  
TO 10' WIDE

**EXISTING CONDITION NOTES**

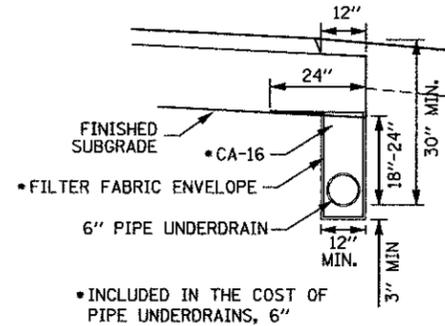
1. INFORMATION ON PAVEMENT AND BASE COURSE THICKNESS WAS TAKEN FROM INFORMATION DOCUMENTED IN THE REPORT FOR SOILS EXPLORATION SOUTH STREET TRAIL EXTENSION PREPARED BY TESTING SERVICE CORPORATION DATED FEBRUARY 15, 2011. SEE ADDITIONAL NOTE BELOW.
2. IT SHALL BE THE RESPONSIBILITY OF THE CONTRACTOR TO VERIFY THE THICKNESS OF THE EXISTING TOPSOIL, SIDEWALKS AND PAVEMENTS TO BE REMOVED AND THE EXTENT TO WHICH IT WAS REINFORCED. NO ADDITIONAL COMPENSATION WILL BE ALLOWED BECAUSE OF VARIATIONS FROM THE ASSUMED THICKNESS SHOWN ON THE PLANS OR FOR VARIATIONS IN THE AMOUNT OF REINFORCEMENT.

**LEGEND, EXISTING**

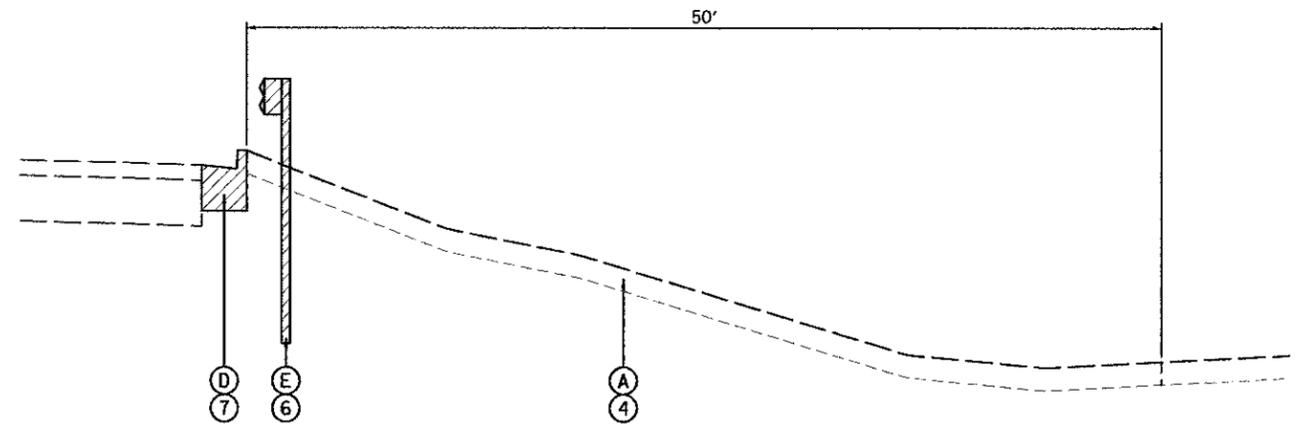
- (A) EXISTING GROUND
- (B) EXISTING PCC SIDEWALK, 4"-5" - TO BE REMOVED (44000600)
- (C) EXISTING TOPSOIL - TO BE REMOVED (20201200)
- (D) EXISTING CURB & GUTTER, B-6.24 - TO BE REMOVED
- (E) EXISTING GUARDRAIL - TO BE REMOVED

**LEGEND, PROPOSED**

- (1) HMA SURFACE COURSE, MIX "D", N50, 2" (40603335)
- (2) AGGREGATE BASE COURSE, TYPE B, 10" (35102200)
- (3) TOPSOIL FURNISH AND PLACE, 6" (21101625)
- (4) SEEDING (TYPE AS SPECIFIED) W/EROSION CONTROL BLANKET
- (5) STRUCTURAL EMBANKMENT (TO BE PAID AS FURNISHED EXCAVATION - 20400800)
- (6) STEEL PLATE BEAM GUARDRAIL, TYPE A, 6' POSTS (63000001)
- (7) COMBINATION CONCRETE CURB AND GUTTER, TYPE B-6.24 (60605000)



**PIPE UNDERDRAIN DETAIL**  
SOUTH STREET TRAIL  
STA. 9+87.10 TO STA. 10+03.00 RT.



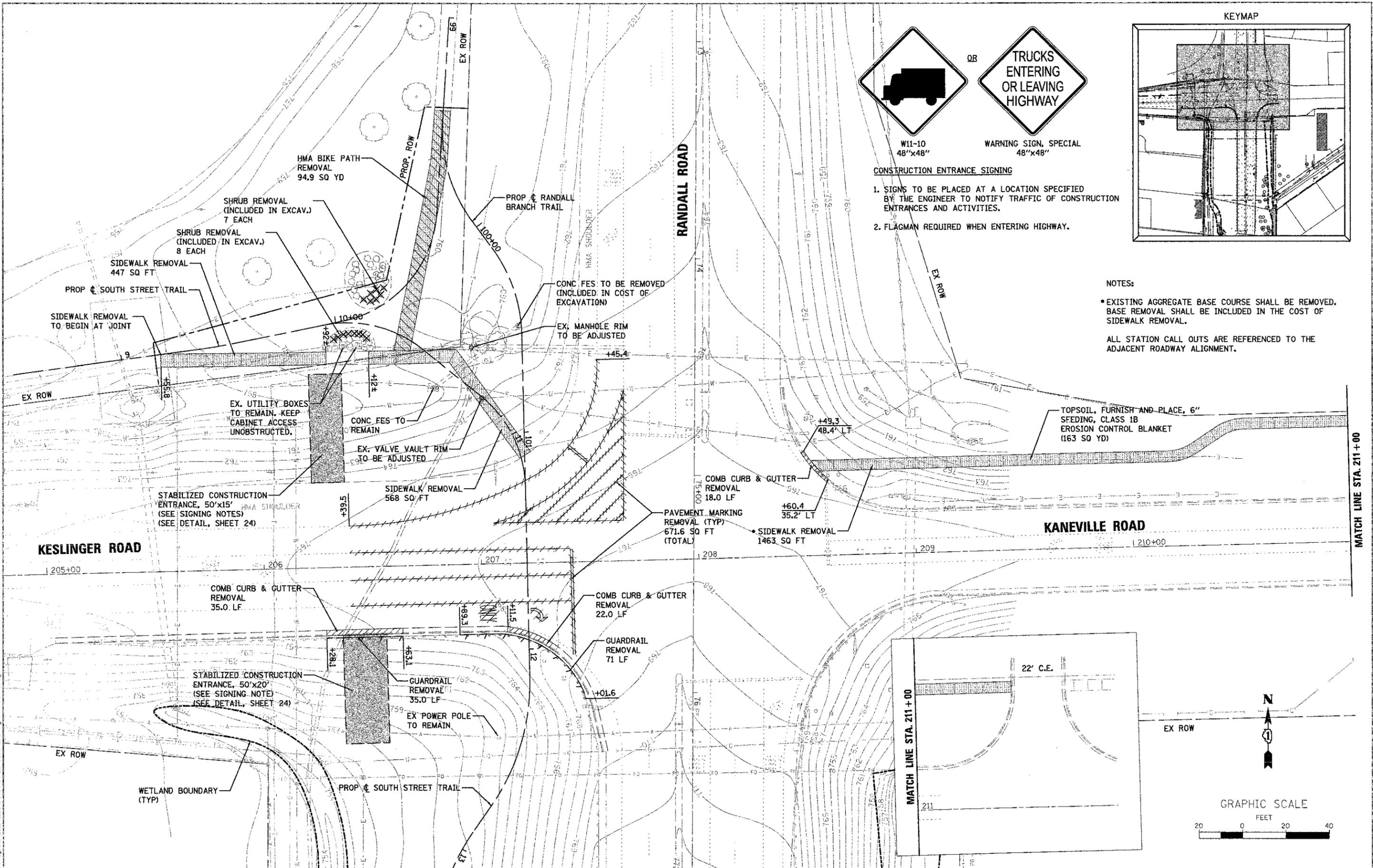
**TYPICAL SECTION NO. 4**

KESLINGER ROAD  
STA. 206+28.1 TO STA. 206+63.1

HOT-MIX ASPHALT MIXTURE REQUIREMENTS	
MIXTURE TYPE	AIR VOIDS @ Ndes
HMA BICYCLE TRAIL	
HOT-MIX ASPHALT SURFACE COURSE, MIX "D", N50 (IL-9.5 mm), 2"	4% @ 50 GYR.

1. THE UNIT WEIGHT USED TO CALCULATE ALL HOT-MIX ASPHALT SURFACE QUANTITIES IS 112 LBS/SQYD/IN.
2. THE "AC TYPE" FOR POLYMERIZED HMA MIXES SHALL BE "SBS/SBR PG 76-22" AND FOR NON-POLYMERIZED HMA THE "AC TYPE" SHALL BE "PG 64-22" UNLESS MODIFIED BY DISTRICT ONE SPECIAL PROVISIONS. FOR "PERCENT OF RAP" SEE SPECIAL PROVISIONS.

FILE NAME = W:\Projects\2012\020931\_SouthStreetTrail\020931\_SouthStreetTrail\Drawings\Typical\01.dgn



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(630) 443-7755

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	DATE - 5/14/12	REVISED -

**STATE OF ILLINOIS**  
**DEPARTMENT OF TRANSPORTATION**

**EXISTING CONDITIONS & REMOVAL PLAN**

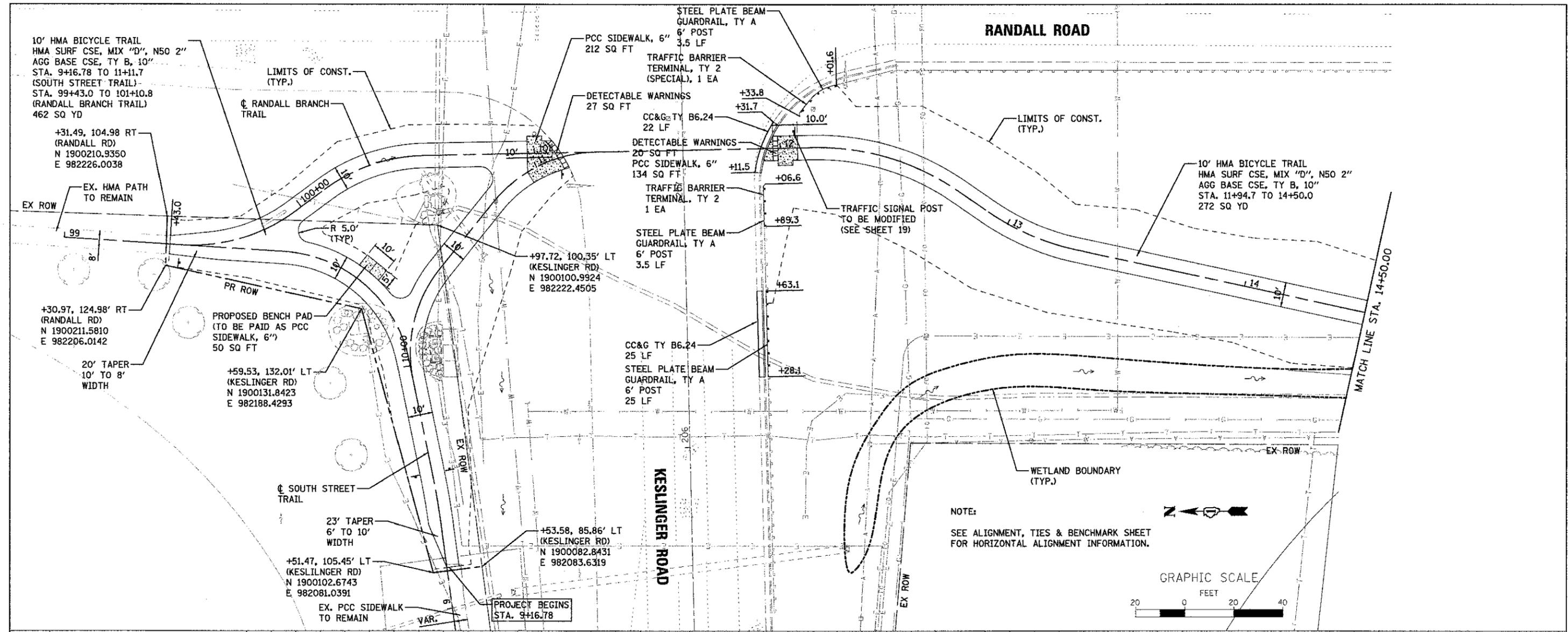
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F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
0336	00-00259-00-BT	KANE	79	11
CONTRACT NO. 63667				
FED. ROAD DIST. NO. 1 ILLINOIS FED. AID PROJECT				



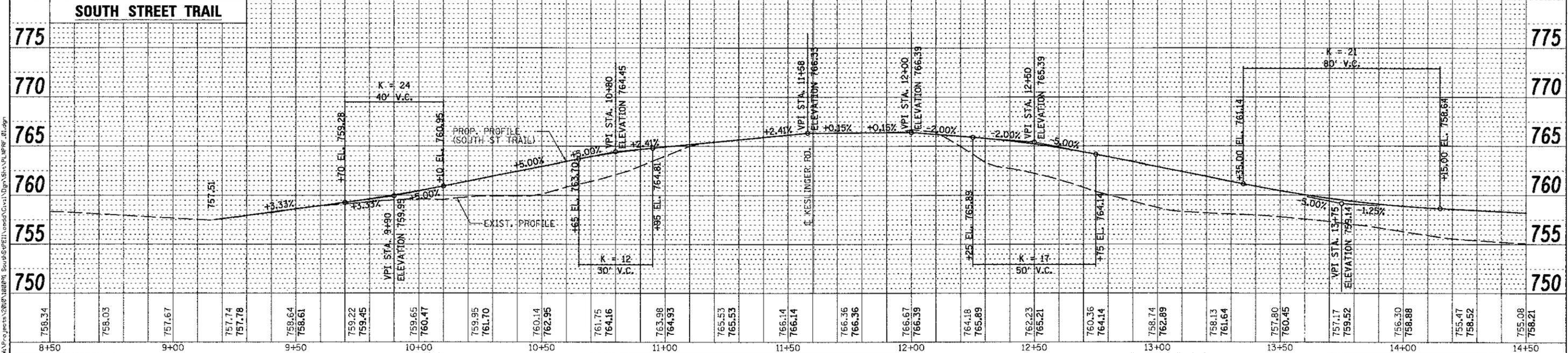
PLAN	REVISIONS	DATE
NO.	NO.	
1	1	

PROFILE	REVISIONS	DATE
NO.	NO.	
1	1	



NOTE:  
SEE ALIGNMENT, TIES & BENCHMARK SHEET FOR HORIZONTAL ALIGNMENT INFORMATION.

GRAPHIC SCALE  
FEET  
0 20 40



USER NAME = nperis	DESIGNED - DPB	REVISED -	<b>STATE OF ILLINOIS</b> <b>DEPARTMENT OF TRANSPORTATION</b>	<b>PLAN &amp; PROFILE</b> <b>SOUTH STREET TRAIL</b>		F.A.P. RTE. 0336	SECTION 00-00259-00-BT	COUNTY KANE	TOTAL SHEETS 79	SHEET NO. 13		
PLOT SCALE = AS SHOWN	CHECKED - DPB	REVISED -		SCALE: AS SHOWN	SHEET NO. 13 OF 79 SHEETS	STA. TO STA.	CONTRACT NO. 63667		ILLINOIS FED. AID PROJECT			
PLOT DATE = 5/11/2012	DATE - 5/14/12	REVISED -										

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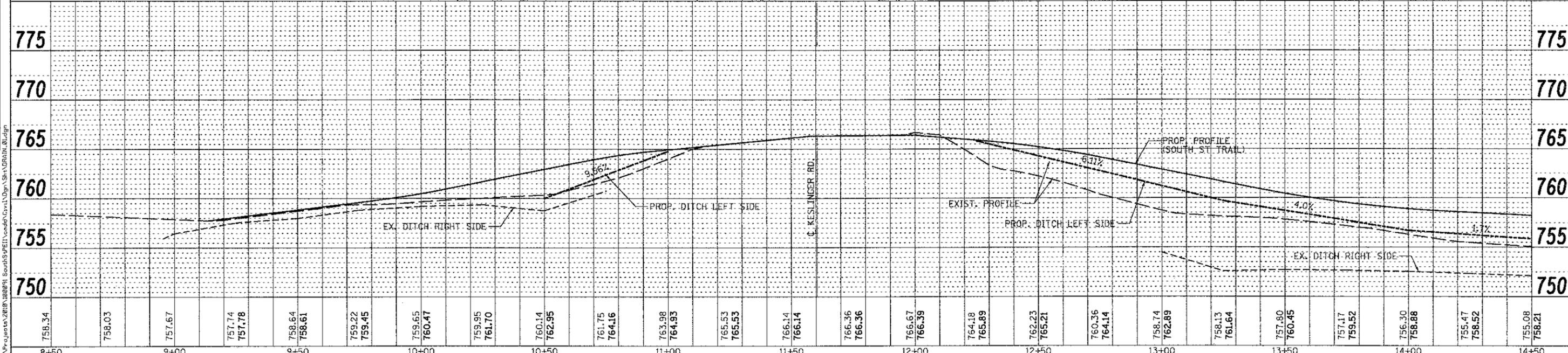
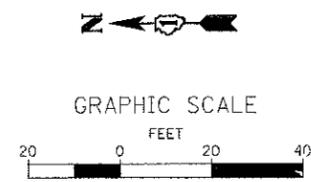
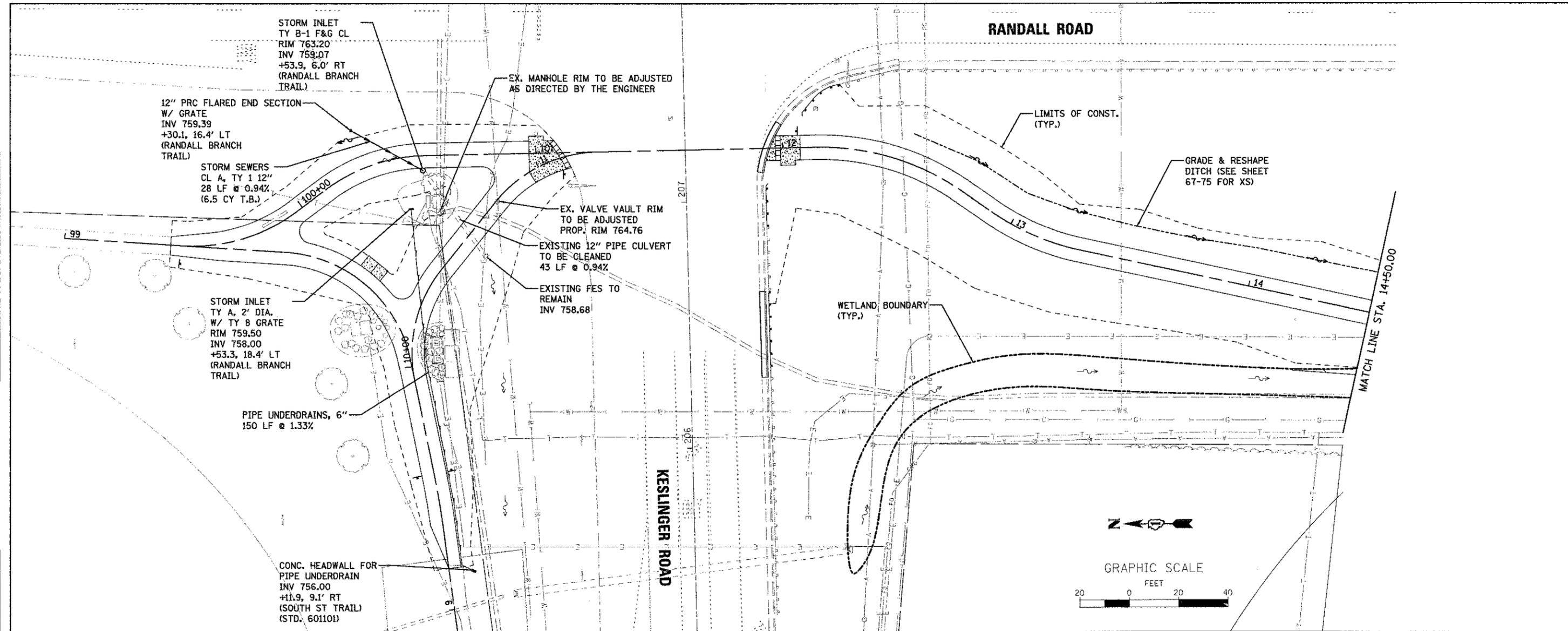






PLAN	REVISION	DATE
NO.	NO.	
BY	BY	DATE
DATE	DATE	

PROFILE	REVISION	DATE
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BY	BY	DATE
DATE	DATE	



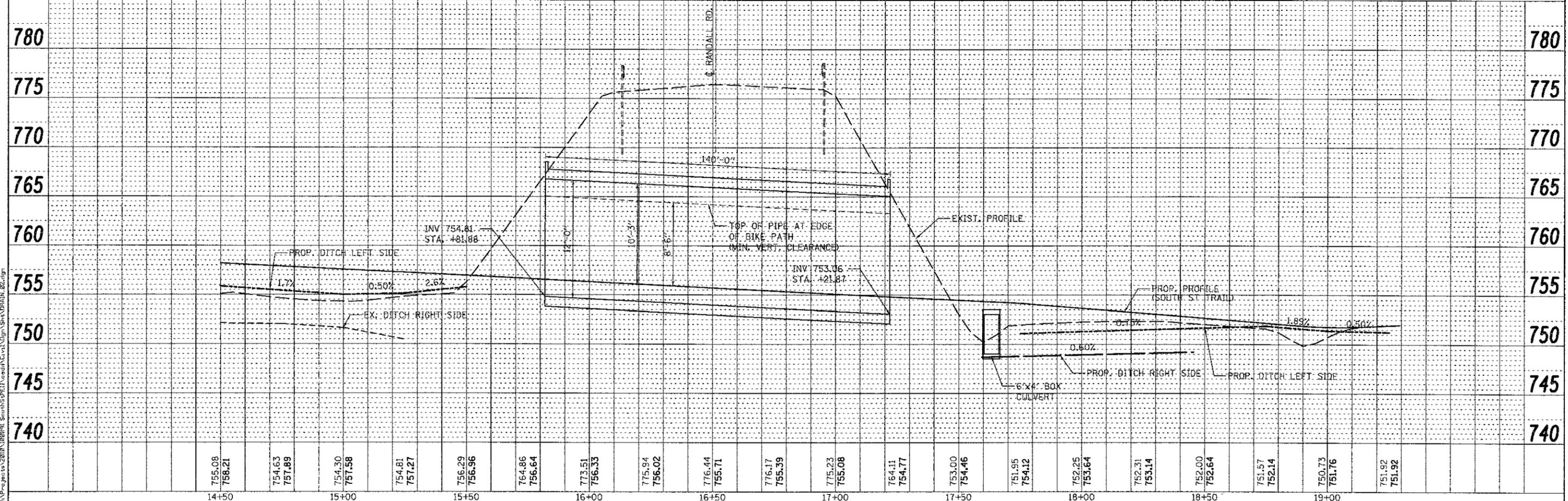
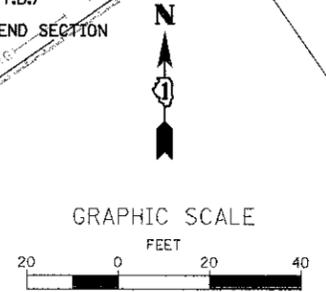
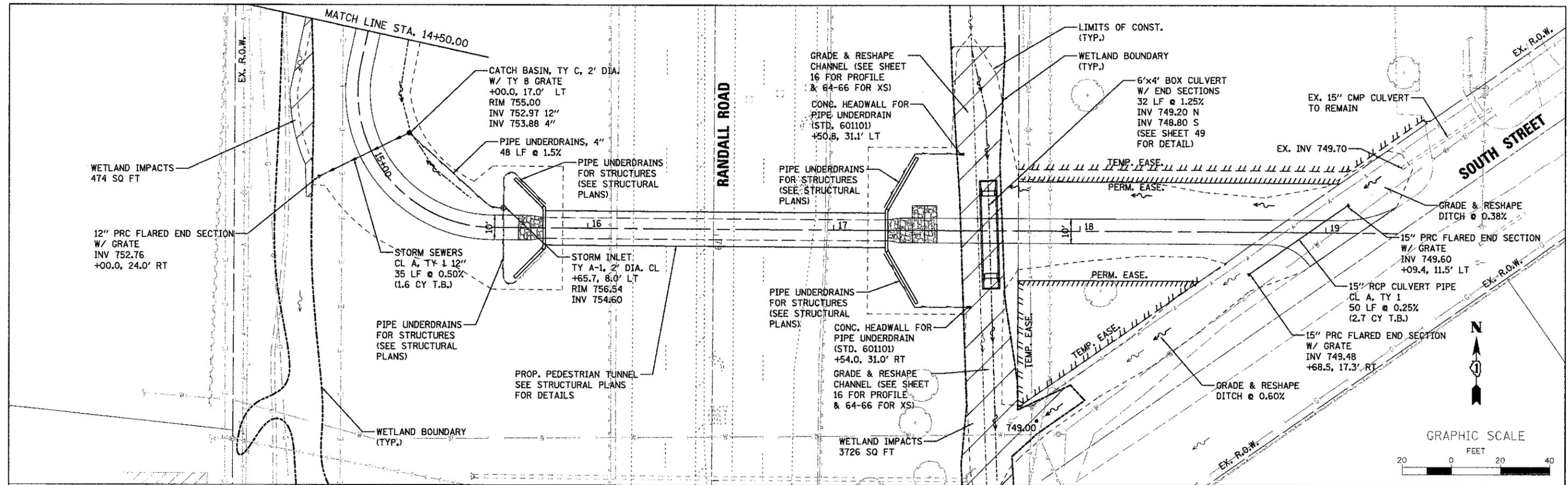
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PLOT SCALE = AS SHOWN	CHECKED - DPB	REVISED -		SCALE: AS SHOWN	SHEET NO. 17 OF 79 SHEETS	STA. TO STA.	CONTRACT NO. 63667				
PLOT DATE = 5/11/2012	DATE = 5/14/12	REVISED -		FED. ROAD DIST. NO. ILLINOIS FED. AID PROJECT							

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PROFILE	
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DESCRIPTION	
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14+50	15+00	15+50	16+00	16+50	17+00	17+50	18+00	18+50	19+00																														
755.08	758.21	754.63	757.89	754.30	757.58	754.81	757.27	756.29	756.96	764.86	756.64	773.51	756.33	775.94	756.02	776.44	755.71	776.17	755.39	775.23	755.08	764.11	754.77	753.00	754.46	751.95	754.12	752.25	753.64	752.31	753.14	752.00	752.64	751.57	752.14	750.73	751.76	751.92	751.92

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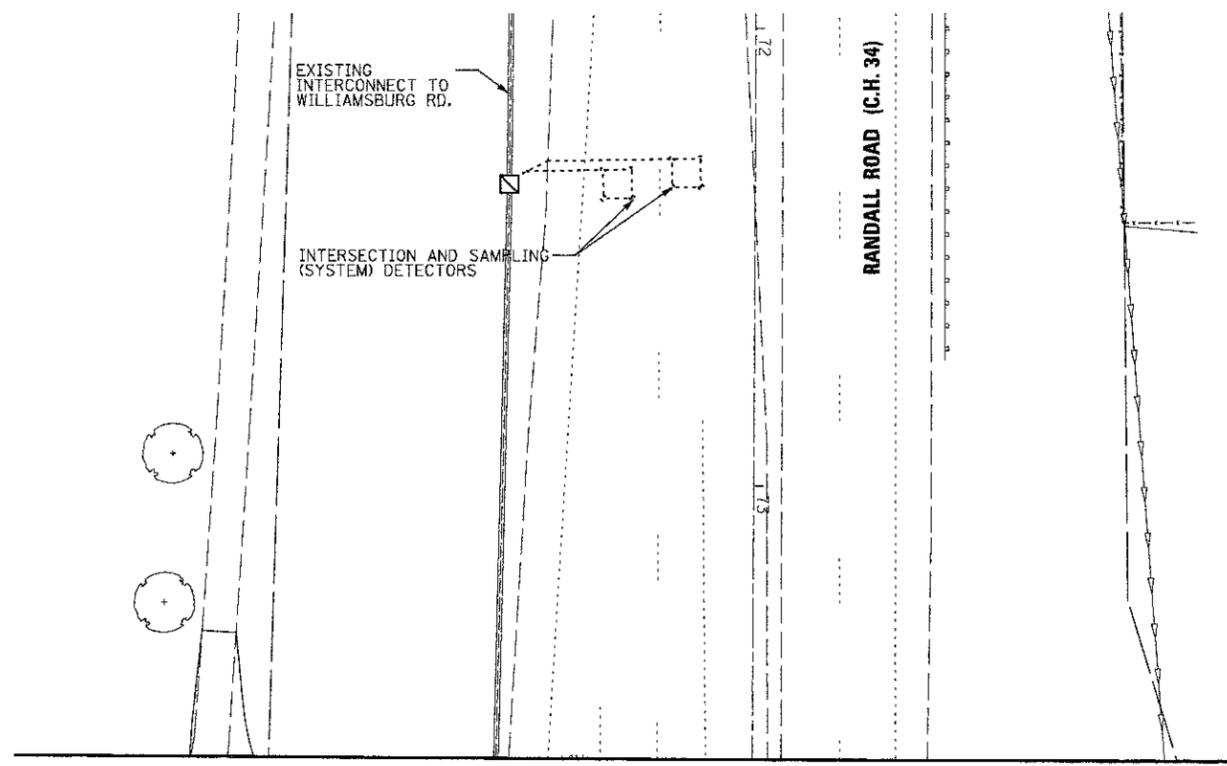
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PLOT DATE = 5/11/2012	CHECKED - DPB	REVISED -
	DATE - 5/14/12	REVISED -

**STATE OF ILLINOIS**  
**DEPARTMENT OF TRANSPORTATION**

<b>DRAINAGE PLAN &amp; PROFILE</b>	
SCALE: AS SHOWN	SHEET NO. 18 OF 79 SHEETS
STA.	TO STA.

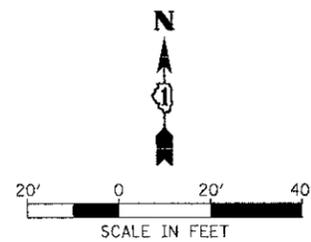
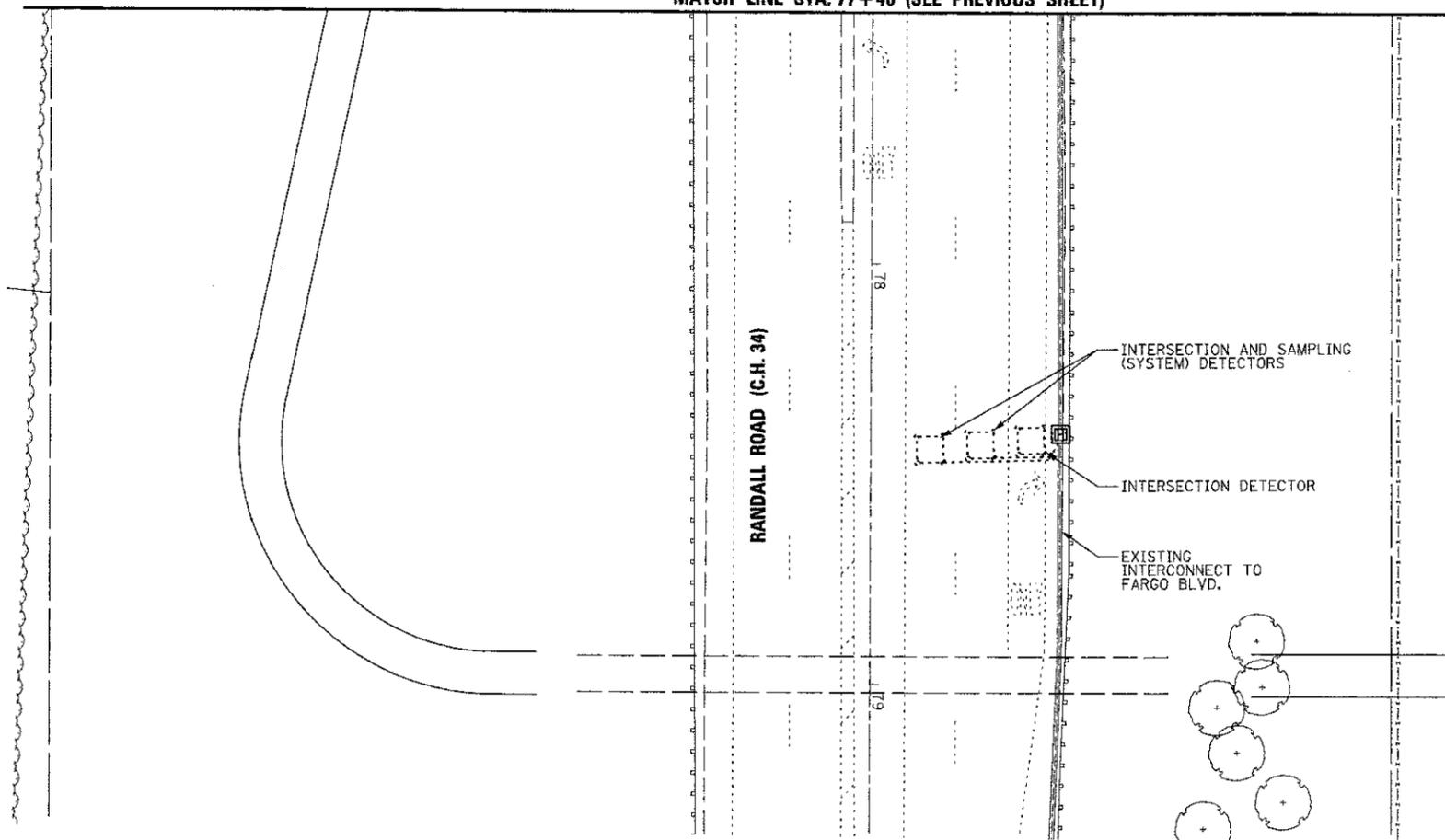
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CONTRACT NO. 63667				
FED. ROAD DIST. NO. [ILLINOIS] FED. AID PROJECT				





MATCH LINE STA. 73+60 (SEE PREVIOUS SHEET)

MATCH LINE STA. 77+40 (SEE PREVIOUS SHEET)



FILE NAME = I:\Projects\2012\1008091\_SouthSPET\cadd\Draw\Draw\SHATS.02\_SST.dgn

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	DRAWN - NDP	REVISED -
PLOT SCALE = AS SHOWN	CHECKED - DPB	REVISED -
PLOT DATE = 5/11/2012	DATE - 5/14/12	REVISED -

**STATE OF ILLINOIS  
DEPARTMENT OF TRANSPORTATION**

**TRAFFIC SIGNAL MODIFICATION PLAN**

SCALE: AS SHOWN SHEET NO. 20 OF 79 SHEETS STA. TO STA.

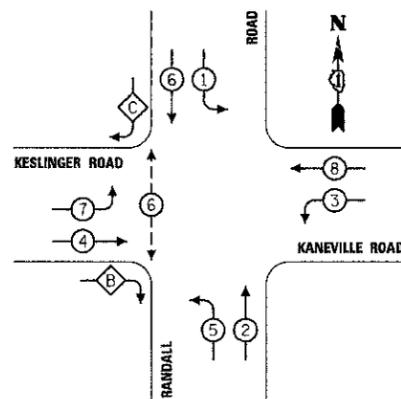
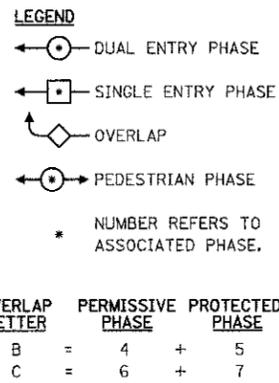
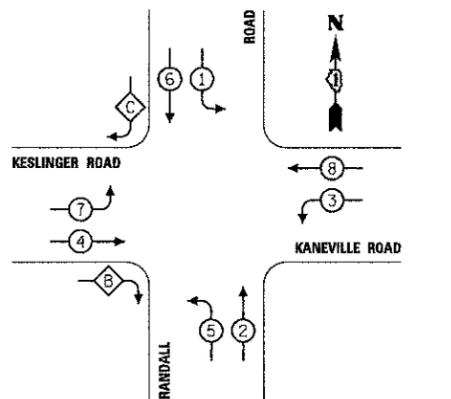
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FED. ROAD DIST. NO. 1 ILLINOIS FED. AID PROJECT				
CONTRACT NO. 63667				

**SCHEDULE OF QUANTITIES**

**PAY ITEM**

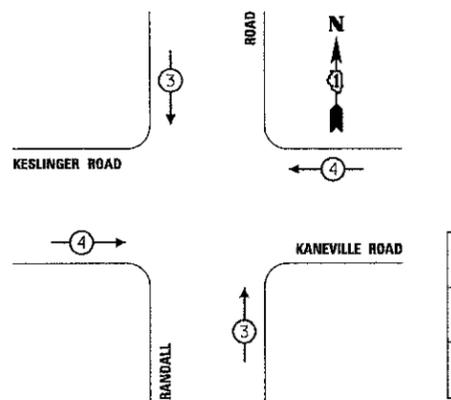
- UNDERGROUND CONDUIT, 2 1/2" DIA., GALVANIZED STEEL
- UNDERGROUND CONDUIT, 4" DIA., GALVANIZED STEEL
- MAINTENANCE OF EXISTING TRAFFIC SIGNAL INSTALLATION
- GROUNDING EXISTING HANDHOLE FRAME AND COVER
- ELECTRIC CABLE IN CONDUIT, SIGNAL NO. 14 2C
- ELECTRIC CABLE IN CONDUIT, SIGNAL NO. 14 3C
- ELECTRIC CABLE IN CONDUIT, SIGNAL NO. 14 7C
- TRAFFIC SIGNAL POST, GALVANIZED STEEL 16 FT.
- CONCRETE FOUNDATION, TYPE A
- DRILL EXISTING HANDHOLE
- SIGNAL HEAD, LED, 2-FACE, 5-SECTION, BRACKET MOUNTED
- PEDESTRIAN SIGNAL HEAD, LED, 1-FACE, BRACKET MOUNTED WITH COUNTDOWN TIMER
- DETECTOR LOOP, TYPE I
- PEDESTRIAN PUSH-BUTTON
- MODIFY EXISTING CONTROLLER
- REMOVE EXISTING TRAFFIC SIGNAL EQUIPMENT
- REMOVE EXISTING CONCRETE FOUNDATION
- RE-OPTIMIZE TRAFFIC SIGNAL SYSTEM LEVEL 1
- ELECTRIC CABLE IN CONDUIT, GROUNDING CONDUCTOR, NO. 6, 1C

UNITS	QUANTITY
FOOT	8
FOOT	112
EACH	1
EACH	1
FOOT	620
FOOT	630
FOOT	740
EACH	1
FOOT	4
EACH	2
EACH	1
EACH	2
FOOT	48
EACH	2
EACH	1
EACH	1
EACH	1
FOOT	150



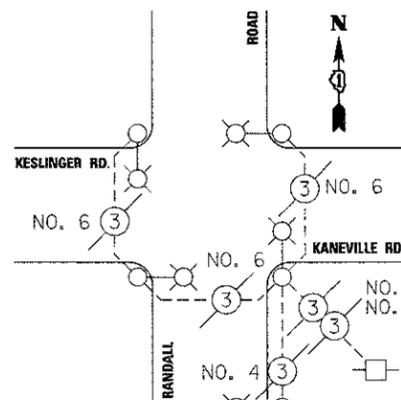
**EXISTING PHASE DESIGNATION DIAGRAM**

**PROPOSED PHASE DESIGNATION DIAGRAM**



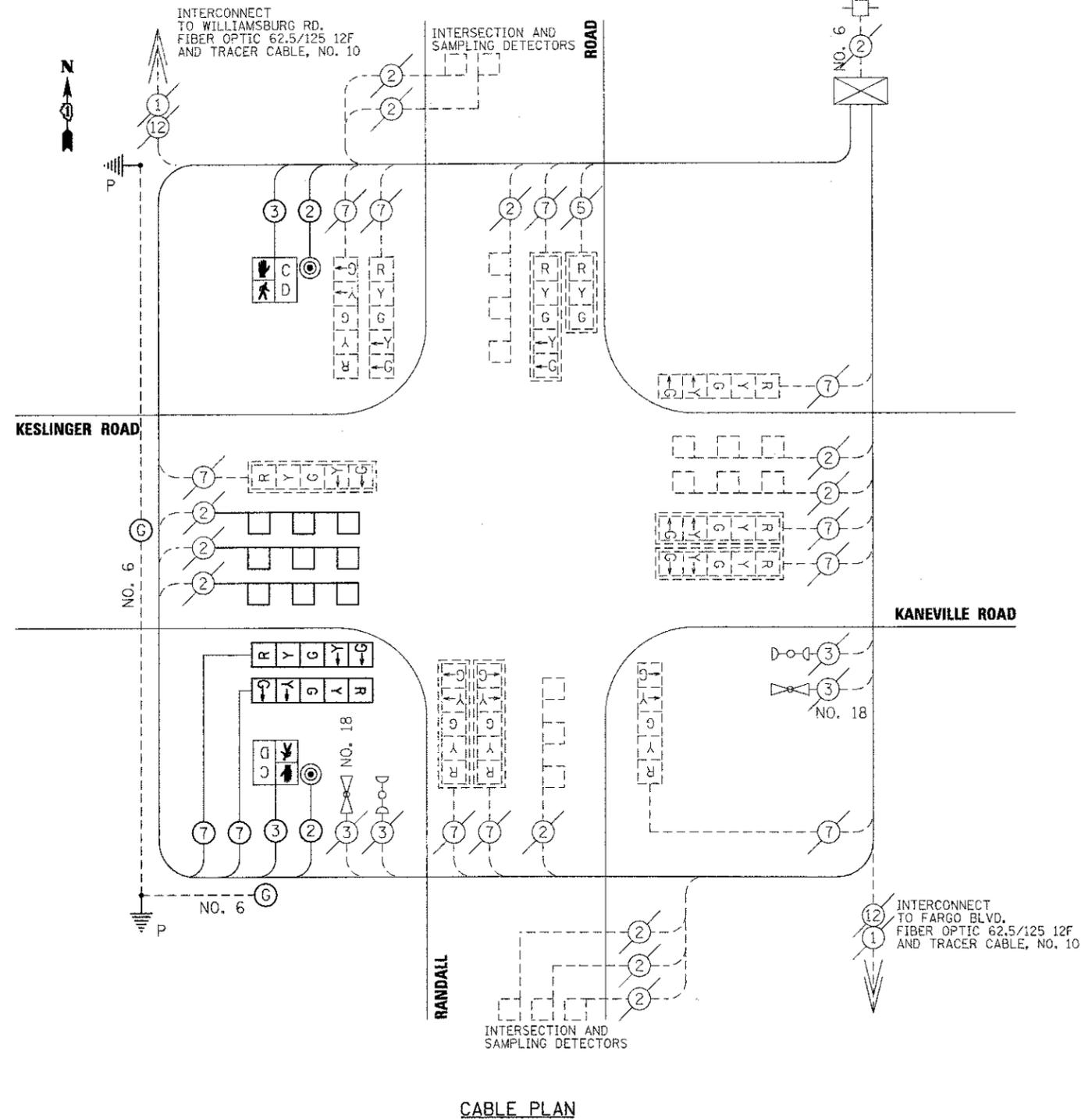
EXISTING/ PROPOSED EMERGENCY VEHICLE PREEMPTOR		
EMERGENCY VEHICLE PREEMPTOR	3	4
MOVEMENT	↓	←

**EMERGENCY VEHICLE PREEMPTION SEQUENCE**



NOTE: ALL CABLES SHOWN ARE (3) 1/C

**EXISTING STREET LIGHTING CABLE PLAN**



**CABLE PLAN**

FILE NAME = M:\Projects\2010\1008\1. Source\PEET\Roads\Civil\10gpa\Sh-A.TS\_03.dwg

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PLOT DATE = 5/11/2012	CHECKED - DPB	REVISED -
	DATE - 5/14/12	REVISED -

**STATE OF ILLINOIS**  
**DEPARTMENT OF TRANSPORTATION**

**TRAFFIC SIGNAL MODIFICATION PLAN**  
**& CABLE PLAN**

SCALE: AS SHOWN    SHEET NO. 21 OF 79 SHEETS    STA.    TO STA.

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
0336	00-00259-00-BT	KANE	79	21
CONTRACT NO. 63667				
FED. ROAD DIST. NO. 1 ILLINOIS FED. AID PROJECT				



R1-1  
18"x18"



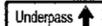
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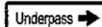
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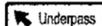
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D1-1a(T)  
24"x6"



D1-1a(R)  
24"x6"



D1-1a(L)  
24"x6"



M6-1R  
12"x9"



M6-3  
12"x9"



D1-2  
24"x12"

BIKE ROUTE SIGN  
D11-1 & D1-1a(L)  
+47.0, 7.0' RT  
(RANDALL TRAIL)

PATH NARROWS SIGN  
W5-4a  
+52.2, 8.1' LT  
(SOUTH ST TRAIL)

BIKE ROUTE SIGN  
D11-1 & D1-1a(R)  
+52.2, 8.0' RT  
(SOUTH ST TRAIL)

2-4" YELLOW LINES  
@ 11" C-C  
12" WHITE LINE  
@ 45° DIAGONALS  
(20' C-C)

STOP SIGN  
R1-1  
+09.7, 7.75' RT  
(SOUTH ST TRAIL)

2-6" WHITE LINES W/  
12" WHITE LINE @ 45°  
DIAGONALS (3' C-C)  
24" WHITE STOP BAR

6" WHITE LINE  
WHITE LETTERS &  
SYMBOLS (TYP)

PEDESTRIAN SIGN  
W11-15 & W16-7dL  
+97.1, 7.9' RT  
(SOUTH ST TRAIL)

STOP SIGN  
R1-1  
+12.0, 7.75' LT

PEDESTRIAN SIGN  
W11-15 & W16-2aP  
+20.9, 34.6' RT  
(KESLINGER RD)

NOTES:

- ALL PAVEMENT MARKINGS SHALL BE URETHANE.
- CONTRACTOR SHALL SUPPLY ALL SIGNS PANELS SHOWN ON THE PLANS. THE CONTRACTOR SHALL INSTALL THE BIKE ROUTE SIGNS ON SOUTH STREET AND GARY LANE. THE REMAINING SIGNS SHALL BE INSTALLED BY THE KANE COUNTY DIVISION OF TRANSPORTATION (KDOT). THE CONTRACTOR SHALL COORDINATE INSTALLATION WITH THE ENGINEER AND KDOT.
- ALL SIGNS SHALL BE INSTALLED IN ACCORDANCE WITH THE M.U.T.C.D. AND HIGHWAY STDS. 720001, 720006, AND 728001.
- THE FINAL LOCATIONS OF THE PROPOSED BIKE ROUTE SIGNS SHALL BE DETERMINED BY THE ENGINEER AND/OR KDOT FORCES.
- ANY EXISTING SIGN PANELS TO BE REMOVED SHALL REMAIN THE PROPERTY OF KDOT OR BE RETURNED TO THE CITY OF GENEVA, DEPENDING ON OWNERSHIP.

FILE NAME = \\A:\Projects\2018\180801\_SouthStPEI\cadd\Civil\Drawn\Sheet\PMK\_01.dgn



USER NAME = ndp0119  
PLOT SCALE = AS SHOWN  
PLOT DATE = 5/11/2012

DESIGNED - DPB  
DRAWN - NDP  
CHECKED - DPB  
DATE - 5/14/12

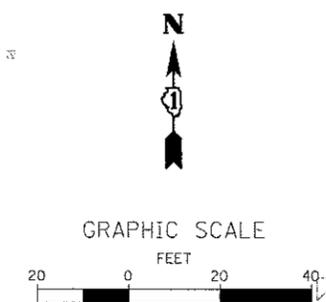
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STATE OF ILLINOIS  
DEPARTMENT OF TRANSPORTATION

PAVEMENT MARKING  
& SIGNING PLAN

SCALE: AS SHOWN SHEET NO. 22 OF 79 SHEETS STA. TO STA.

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
0336	00-00259-00-BT	KANE	79	22
CONTRACT NO. 63667				
FED. ROAD DIST. NO. [ILLINOIS] FED. AID PROJECT				





**EROSION CONTROL INSPECTION**

ALL EROSION CONTROL MEASURES MUST BE INSPECTED WEEKLY AND AFTER EACH 1/2" RAIN EVENT.

**WINTER SHUT DOWN**

A WINTER SHUT DOWN IS NOT ANTICIPATED FOR THIS PROJECT, BUT IN THE EVENT THAT UNAVOIDABLE CIRCUMSTANCE REQUIRE A WINTER SHUT DOWN, THE CONDITION OF THE CONSTRUCTION SITE FOR WINTER SHUTDOWN SHALL BE ADDRESSED EARLY IN THE FALL GROWING SEASON SO THAT SLOPES AND OTHER BARE EARTH AREAS MAY BE STABILIZED WITH TEMPORARY AND/OR PERMANENT VEGETATIVE COVER FOR PROPER EROSION AND SEDIMENT CONTROL. ALL OPEN AREAS THAT ARE TO REMAIN IDLE THROUGHOUT THE WINTER SHALL RECEIVE TEMPORARY EROSION CONTROL MEASURES INCLUDING TEMPORARY SEEDING, MULCHING AND/OR EROSION CONTROL BLANKET PRIOR TO THE END OF THE FALL GROWING SEASON. THE AREAS TO BE WORKED BEYOND THE END OF THE GROWING SEASON MUST INCORPORATE SOIL STABILIZATION MEASURES THAT DO NOT RELY ON VEGETATIVE COVER SUCH AS EROSION CONTROL BLANKET AND HEAVY MULCHING.

**TEMPORARY DITCH CHECKS**

THE PLANS HAVE A PLAN ALLOWANCE OF FIVE (5) ADDITIONAL TEMPORARY DITCH CHECKS FOR MAINTENANCE PURPOSES. THE DITCH CHECKS WILL BE REQUIRED AT THOSE LOCATIONS WHERE THE CONTRACTORS OPERATIONS REQUIRE TEMPORARY DITCHES OR SWALES. THE EXACT LOCATION WILL BE COORDINATED IN THE FIELD WITH THE ENGINEER.

**PERIMETER EROSION BARRIER (SILT FENCE)**

PERIMETER EROSION CONTROL BARRIER (SILT FENCE) SHALL BE PLACED AT THE LOCATIONS SHOWN ON THE PLANS. THE PERIMETER EROSION CONTROL BARRIER SHALL BE CONSTRUCTED AS DETAIL ON IDOT STANDARD 280001 AND AS SPECIFIED IN SECTION 280 OF THE STANDARD SPECIFICATIONS FOR ROAD AND BRIDGE CONSTRUCTION, LATEST EDITION.

**STOCK PILE LOCATIONS AND PROTECTING STOCK PILE AREAS**

STOCK PILES SHOULD NOT BE PLACED IN OR NEAR CRITICAL AREAS, OR AREAS THAT HAVE HIGH POTENTIAL FOR CONTRIBUTING SEDIMENTS TO STORMWATER FACILITIES.

CONTRACTOR MAY OPT TO STOCK PILE MATERIAL. STAGING OF THE PROJECT IS AT HIS DISCRETION OF THE CONTRACTOR AND COORDINATION OF STOCK PILES WILL BE WITH KANE COUNTY DIVISION OF TRANSPORTATION AND KANE-DUPAGE SOIL AND WATER CONSERVATION DISTRICT (KDSWCD). STOCKPILES OF SOIL AND OTHER CONSTRUCTION MATERIALS TO REMAIN IN PLACE MORE THAN THREE (3) DAYS SHALL BE FURNISHED WITH EROSION AND SEDIMENT CONTROL MEASURES (I.E. PERIMETER SILT FENCE). STOCKPILES, NOT BEING ACTIVELY WORKED AND TO REMAIN IN PLACE FOR 14 DAYS OR MORE SHALL RECEIVE TEMPORARY SEEDING.

**STABILIZED CONSTRUCTION AREA**

STABILIZATION OF THE CONSTRUCTION AREA SHOULD TAKE PLACE AT THE END OF EACH WORK DAY.

**DEWATERING**

WHEN DEWATERING THE CONSTRUCTION AREA IS NECESSARY, ALL WATERS SHALL BE FILTERED BY USING FILTER BAGS OR AN ALTERNATIVE MEASURE APPROVED BY THE KANE-DUPAGE SOIL & WATER CONSERVATION DISTRICT. ALL FILTER BAGS MUST HAVE SECONDARY CONTAINMENT DEVICES, AND SHOULD BE PLACED ON LEVEL GROUND. WATER MUST HAVE SEDIMENT REMOVED BEFORE BEING ALLOWED TO RETURN TO THE ORIGINAL CREEK. THE DISCHARGE SHALL BE DESIGNED SO THAT RETURNING WATERS DO NOT CAUSE EROSION. THE CONTRACTOR WILL COORDINATE THE METHOD, DESIGN AND LOCATION OF THE DEWATERING PLAN AND FILTER BAG(S) WITH KANE-DUPAGE SOIL & WATER CONSERVATION DISTRICT AT THE PRE- CONSTRUCTION MEETING.

DEWATERING AND PUMPING OPERATIONS FOR ALL CONSTRUCTION OPERATIONS WILL NOT BE MEASURED SEPARATELY FOR PAYMENT BUT SHALL BE INCLUDED IN THE COST OF THE RELATED ITEM OF WORK REQUIRING THE DEWATERING OPERATION. DEWATERING WILL INCLUDE MEANS, METHODS AND ALL MATERIALS AND EQUIPMENT TO DEWATER AND PROVIDE FILTRATION OF WATERS BEFORE RE-ENTERING THE DITCHES AND/OR CREEK.

**KEEPING PAVEMENTS CLEAN**

THE CONTRACTOR WILL KEEP ALL PERMANENT PAVEMENT SURFACES CLEAN OF DIRT OR CONSTRUCTION DEBRIS. THE PAVEMENT SHALL BE CLEANED AT THE END OF EACH DAYS OPERATION OR MORE FREQUENTLY AS REQUIRED BY THE ENGINEER IF THE DEBRIS IS DEEMED TO BE A HAZARD TO THE MOTORING PUBLIC.

**GENERAL NOTES**

- A) UNLESS OTHERWISE INDICATED, ALL VEGETATIVE AND STRUCTURAL EROSION AND SEDIMENT CONTROL PRACTICES WILL BE CONSTRUCTED ACCORDING TO MINIMUM STANDARDS AND SPECIFICATIONS IN THE ILLINOIS URBAN MANUAL REVISED FEBRUARY 2002.
- B) THE KANE-DUPAGE SOIL AND WATER CONSERVATION DISTRICT (KDSWCD) MUST BE NOTIFIED ONE WEEK PRIOR TO THE PRE-CONSTRUCTION CONFERENCE, ONE WEEK PRIOR TO THE COMMENCEMENT OF LAND DISTURBING ACTIVITIES, AND ONE WEEK PRIOR TO THE FINAL INSPECTION.
- C) A COPY OF THE APPROVED EROSION AND SEDIMENT CONTROL PLAN SHALL BE MAINTAINED ON THE SITE AT ALL TIMES.
- D) PRIOR TO COMMENCING LAND-DISTURBING ACTIVITIES IN AREAS OTHER THAN INDICATED ON THESE PLANS (INCLUDING BUT NOT LIMITED TO, ADDITIONAL PHASES OF DEVELOPMENT AND OFF-SITE BORROW OR WASTE AREAS) A SUPPLEMENTARY EROSION CONTROL PLAN SHALL BE SUBMITTED TO THE OWNER FOR REVIEW BY THE KDSWCD.
- E) THE CONTRACTOR IS RESPONSIBLE FOR INSTALLATION OF ANY ADDITIONAL EROSION CONTROL MEASURES NECESSARY TO PREVENT EROSION AND SEDIMENTATION AS DETERMINED BY THE KDSWCD.
- F) DURING DEWATERING OPERATIONS, WATER WILL BE PUMPED INTO SEDIMENT BASINS OR SILT TRAPS. DEWATERING DIRECTLY INTO FIELD TILES, STORMWATER STRUCTURES, OR THE CREEK IS PROHIBITED.
- G) IT IS THE RESPONSIBILITY OF THE LANDOWNER AND/OR GENERAL CONTRACTOR TO INFORM ANY SUB-CONTRACTOR(S) WHO MAY PERFORM WORK ON THIS PROJECT, OF THE REQUIREMENTS IN IMPLEMENTING AND MAINTAINING THESE EROSION CONTROL PLANS AND THE NATIONAL POLLUTANT DISCHARGE ELIMINATION SYSTEM (NPDES) PERMIT REQUIREMENTS SET FORTH BY THE ILLINOIS EPA.
- H) NO WORK SHALL BE PERFORMED IN FLOWING WATER. WORK IN OR NEAR CRITICAL AREAS SHOULD BE ISOLATED FROM CONCENTRATED FLOW. ONCE WORK IN THIS AREA BEGINS, PRIORITY SHALL BE GIVEN TO THE COMPLETION OF THE WORK AND FINAL STABILIZATION OF ALL DISTURBED AREAS. ALSO, ALL DISTURBED AREAS AND WORK AREAS MUST BE ISOLATED FROM CREEK FLOW AT ALL TIMES. THE DIVERSION/ISOLATION OF THE CREEK FLOW MUST BE CONSTRUCTED FROM NON-ERODIBLE MATERIALS. THE KDSWCD MUST BE IN AGREEMENT WITH OVERALL EXACT METHOD OF DIVERSION/ISOLATION PRIOR TO THE COMMENCEMENT OF CONSTRUCTION.

**CONSTRUCTION SEQUENCE NOTES**

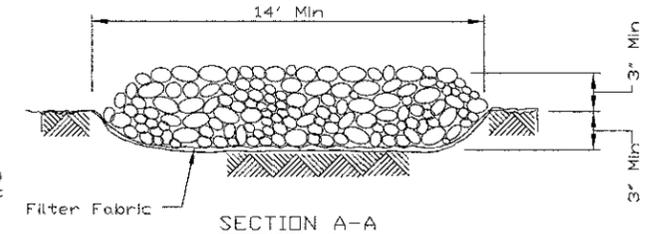
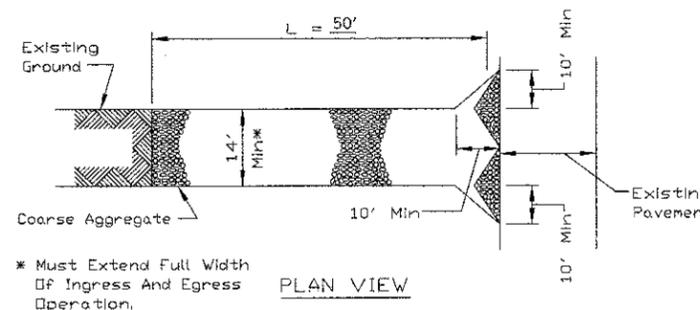
- A) CONSTRUCTION OF BOX CULVERT IS ANTICIPATED TO REQUIRE WORK WITHIN THE CREEK, WORK MUST BE TIMED TO TAKE PLACE DURING LOW FLOW CONDITIONS. NO STORMWATER MAY BE CONVEYED THROUGH THE CREEK DURING THE INSTALLATION OF THE CULVERT, REMOVAL OF THE CULVERT, OR RESTORATION OF THE CULVERT UNTIL THE SIDE SLOPES HAVE BEEN RESTORED AND STABILIZED.
- B) IF BYPASS IS NECESSARY, THE INLET OF THE HOSE SHALL BE PLACED IN A SUMP PIT AND THE OUTLET PLACED ON A NON-ERODIBLE, ENERGY DISSIPATING SURFACE PRIOR TO REJOINING THE CREEK FLOW.
- C) IF DEWATERING THE CONSTRUCTION AREA IS NECESSARY, ALL WATERS SHALL BE FILTERED BY USING FILTER BAGS OR AN ALTERNATIVE MEASURE. WATER MUST HAVE SEDIMENT REMOVED BEFORE BEING ALLOWED TO RETURN TO THE ORIGINAL CREEK.
- D) THE SIDE SLOPES MUST BE RESEEDED AND STABILIZED WITH AN APPROPRIATE EROSION CONTROL BLANKET PRIOR TO ACCEPTING FLOWS. THE BOTTOM OF THE SWALE MUST BE BROUGHT BACK TO ITS ORIGINAL GRADE AND STABLE ENOUGH TO ACCEPT FLOWS.
- E) IN AREAS WHERE WORK IS COMPLETE, PERMANENT STABILIZATION SHALL OCCUR WITHIN 7 DAYS OF COMPLETION, AND IN AREAS WHERE WORK HAS TEMPORARILY STOPPED FOR 14 DAYS OR MORE, TEMPORARY STABILIZATION SHALL OCCUR BY THE 7TH DAY AFTER WORK HAS CEASED.

**LANDSCAPING AND EROSION CONTROL INSTALLATION SCHEDULE**

STABILIZATION TYPE	JAN.	FEB.	MAR.	APR.	MAY	JUNE	JULY	AUG.	SEPT.	OCT.	NOV.	DEC.
PERMANENT SEEDING						*	*	A				
DORMANT SEEDING	B										B	
TEMPORARY SEEDING			C									
EROSION CONTROL BLANKET								D				
PERENNIAL PLANTINGS					E			E				

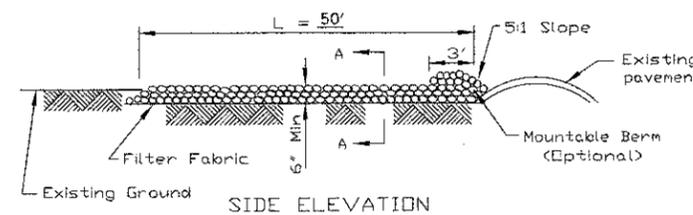
- A. CLASS 1A, 2A, 3, 4, & 5
  - B. INCREASE SEEDING RATES BY 25% WHEN DORMANT SEEDING (NOT ANTICIPATED)
  - C. TEMPORARY SEEDING (PERENNIAL RYE GRASS, SPRING OATS)
  - D. EROSION CONTROL BLANKET (EXCELSIOR) (PERMANENT SEED AREAS ONLY)
  - E. PERENNIAL PLANTINGS, ORNAMENTAL TYPE (3-GAL POT & 1-GAL POT)
- \* IRRIGATION MAY BE NEEDED DURING JUNE AND JULY

NOTE:  
SEEDING TO BE COMPLETED PER REQUIREMENTS OF SECTION 250 OF THE IDOT STANDARD SPECIFICATIONS FOR ROAD AND BRIDGES.



**NOTES:**

- 1. FILTER FABRIC SHALL MEET THE REQUIREMENTS OF SECTION 1080.03 OF THE STANDARD SPECIFICATIONS AND SHALL BE PLACED OVER THE CLEARED SUBGRADE AREA PRIOR TO PLACING THE ROCK.
- 2. AGGREGATE FILL SHALL MEET ONE OF THE FOLLOWING IDOT COARSE AGGREGATE GRADATIONS, CA-1, CA-2, CA-3 OR CA-4 AND BE PLACED ACCORDING TO SPECIAL PROVISION " STABILIZED CONSTRUCTION ENTRANCE.
- 3. ANY DRAINAGE FACILITIES REQUIRED BECAUSE OF WASHING SHALL BE CONSTRUCTED ACCORDING TO MANUFACTURERS SPECIFICATIONS.
- 4. IF WASH RACKS ARE USED THEY SHALL BE INSTALLED ACCORDING TO MANUFACTURERS SPECIFICATIONS.



**STABILIZED CONSTRUCTION ENTRANCE PLAN**

**EROSION CONTROL NOTES**

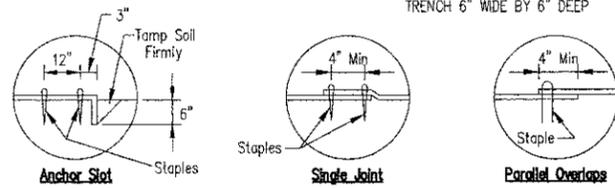
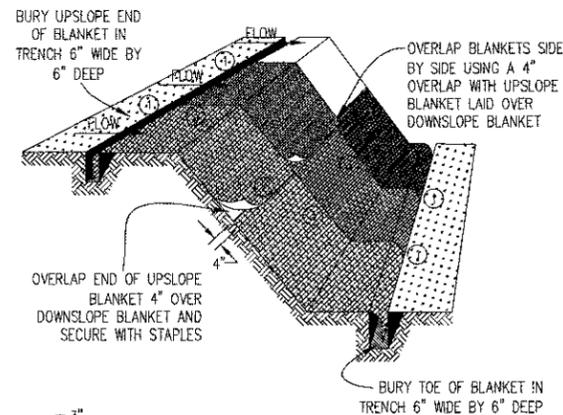
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**WILLS BURKE KELSEY ASSOCIATES LTD.**  
116 West Main Street, Suite 201  
St. Charles, Illinois 60114

USER NAME = nperris	DESIGNED - DPB	REVISED -
PLOT SCALE = AS SHOWN	DRAWN - NDP	REVISED -
PLOT DATE = 5/11/2012	CHECKED - DPB	REVISED -
	DATE - 5/14/12	REVISED -

**STATE OF ILLINOIS  
DEPARTMENT OF TRANSPORTATION**

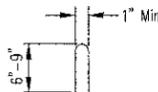
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			FED. ROAD DIST. NO. ILLINOIS FED. AID PROJECT		CONTRACT NO. 63667		



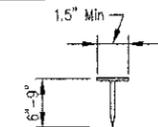
DETAIL 1

DETAIL 2

DETAIL 3



STAPLE DETAIL

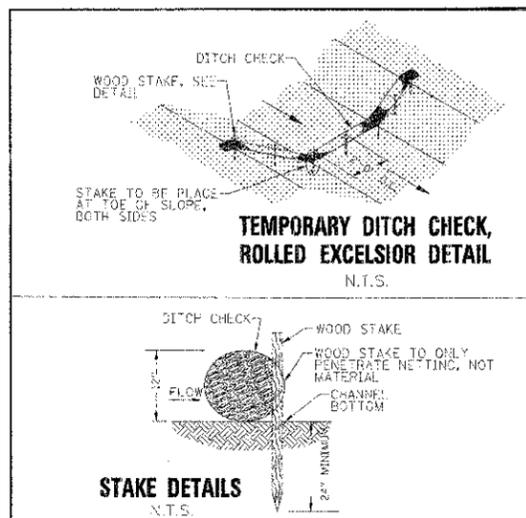


PUSH PIN DETAIL

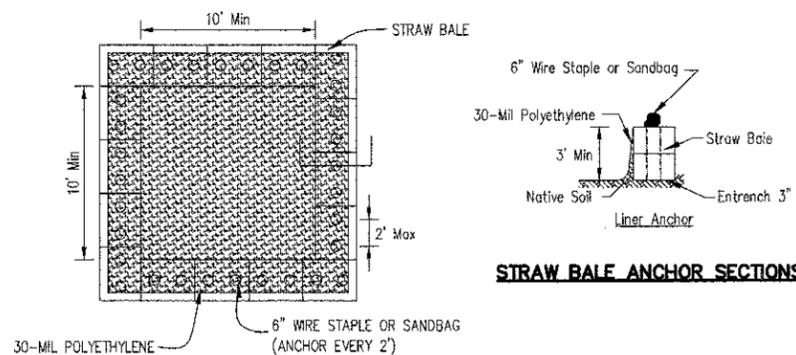
NOTES:

- STAPLES SHALL BE PLACED IN A DIAMOND PATTERN AT 2 PER S.Y. FOR STITCHED BLANKETS. NON-STICHED SHALL USE 4 STAPLES PER S.Y. OF MATERIAL. THIS EQUATES TO 200 STAPLES WITH STITCHED BLANKET AND 400 STAPLES WITH NON-STICHED BLANKET PER 100 S.Y. OF MATERIAL.
- STAPLE OR PUSH PIN LENGTHS SHALL BE SELECTED BASED ON SOIL TYPE AND CONDITIONS. (MINIMUM STAPLE LENGTH IS 6')
- EROSION CONTROL MATERIAL SHALL BE PLACED IN CONTACT WITH THE SOIL OVER A PREPARED SEEDBED.
- ALL ANCHOR SLOTS SHALL BE STAPLED AT APPROXIMATELY 12" INTERVALS.

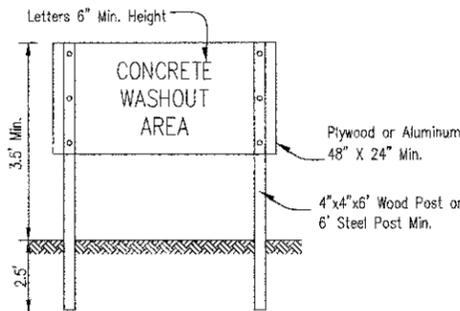
**EROSION CONTROL  
BLANKET INSTALLATION DETAILS**



STAKE DETAILS



PLAN VIEW

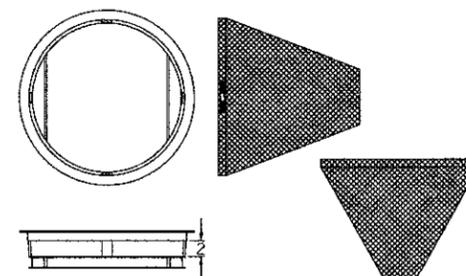


SIGN DETAIL

NOTES:

- MAINTAINING TEMPORARY CONCRETE WASHOUT FACILITIES SHALL INCLUDE REMOVING AND DISPOSING OF HARDENED CONCRETE AND/OR SLURRY AND RETURNING THE FACILITIES TO A FUNCTIONAL CONDITION.
- FACILITY SHALL BE CLEANED OR RECONSTRUCTED IN A NEW AREA ONCE WASHOUT BECOMES TWO-THIRDS FULL.
- EACH STRAW BALE IS TO BE STAKED IN PLACE USING (2) 2"X2"X4' WOODEN STAKES.
- OTHER WASHOUT DESIGNS MAY BE USED IF APPROVED BY THE ENGINEER.

**TEMPORARY CONCRETE  
WASHOUT FACILITY - STRAW BALE**



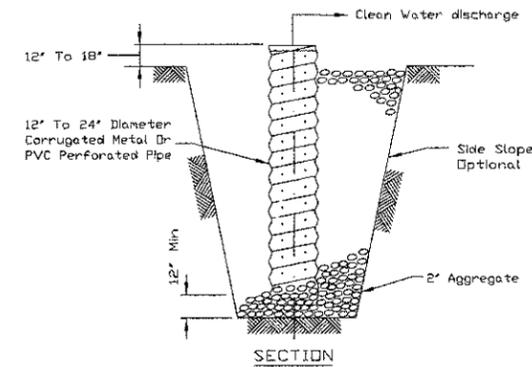
ROUND CATCH ALL

NOTES:

FRAME: TOP FLANGE FABRICATED FROM 1/4"X1/4"X1/8" ANGLE. BASE RIM FABRICATED FROM 1/2"X1/2"X1/8" CHANNEL. HANDLES AND SUSPENSION BRACKETS FABRICATED FROM 1/4"X1/4" FLAT STOCK. ALL STEEL CONFORMING TO ASTM-A36.

SEDIMENT BAG: BAG FABRICATED FROM 4 OZ./SQ.YD. NON-WOVEN POLYPROPYLENE GEOTEXTILE REINFORCED WITH POLYESTER MESH. BAG SECURED TO BASE RIM WITH A STAINLESS STEEL BAND AND LOCK.

**INLET FILTER DETAIL**

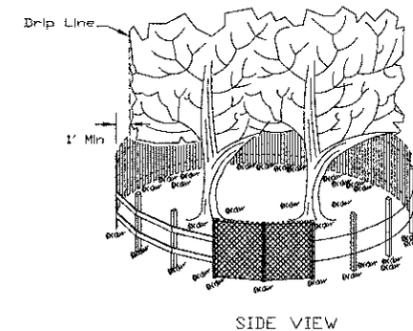


SECTION

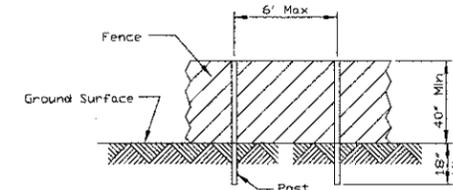
NOTES:

- PIT DIMENSIONS ARE OPTIONAL.
- THE STANDPIPE WILL BE CONSTRUCTED BY PERFORATING A 12"-24" DIAMETER CORRUGATED METAL OR PVC PIPE.
- A BASE OF 2" AGGREGATE WILL BE PLACED IN THE PIT TO A MINIMUM DEPTH OF 12". AFTER INSTALLING THE STANDPIPE, THE PIT SURROUNDING THE STANDPIPE WILL THEN BE BACKFILLED WITH 2" AGGREGATE.
- THE STANDPIPE WILL EXTEND 12" TO 18" ABOVE THE LIP OF THE PIT.
- IF DISCHARGE WILL BE PUMPED DIRECTLY TO A STORM DRAINAGE SYSTEM, THE STANDPIPE WILL BE WRAPPED WITH FILTER FABRIC BEFORE INSTALLATION.
- IF DESIRED, 1/4"-1/2" HARDWARE CLOTH MAY BE PLACED AROUND THE STANDPIPE PRIOR TO ATTACHING THE FILTER FABRIC. THIS WILL INCREASE THE RATE OF WATER SEEPAGE INTO THE PIPE.

**SUMP PIT PLAN**



SIDE VIEW



POST AND FENCE DETAIL

NOTES:

- THE FENCE SHALL BE LOCATED A MINIMUM OF 1 FOOT OUTSIDE THE DRIP LINE OF THE TREE TO BE SAVED AND IN NO CASE CLOSER THAN 5 FEET TO THE TRUNK OF ANY TREE.
- FENCE POSTS SHALL BE EITHER STANDARD STEEL POSTS OR WOOD POSTS WITH A MINIMUM CROSS SECTIONAL AREA OF 3.0 SQ. IN.
- THE FENCE MAY BE EITHER 40" HIGH SNOW FENCE, 40" PLASTIC WEB FENCING OR ANY OTHER MATERIAL AS APPROVED BY THE ENGINEER/INSPECTOR.
- TO BE PAID FOR AS "TEMPORARY FENCE."

**TREE PROTECTION FENCING**

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**WILLS BURKE KELSEY ASSOCIATES LTD.**  
116 West Main Street, Suite 201  
St. Charles, Illinois 60174

USER NAME = rporras	DESIGNED - DPB	REVISED -
PLOT SCALE = AS SHOWN	DRAWN - NDP	REVISED -
PLOT DATE = 5/11/2012	CHECKED - DPB	REVISED -
	DATE - 5/14/12	REVISED -

**STATE OF ILLINOIS  
DEPARTMENT OF TRANSPORTATION**

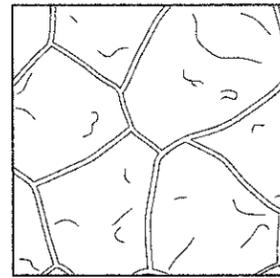
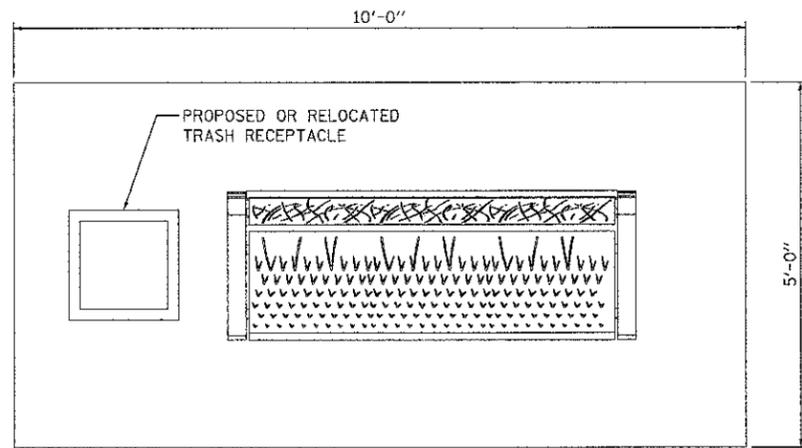
**EROSION CONTROL DETAILS**

SCALE: AS SHOWN SHEET NO. 25 OF 79 SHEETS STA. TO STA.

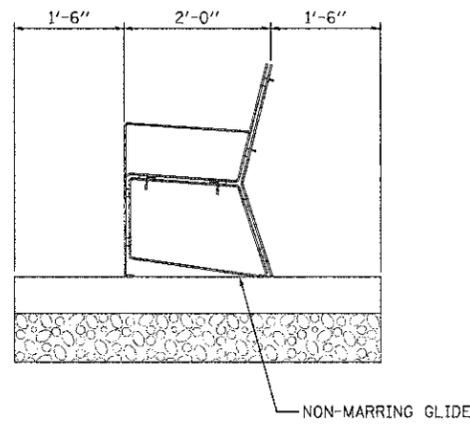
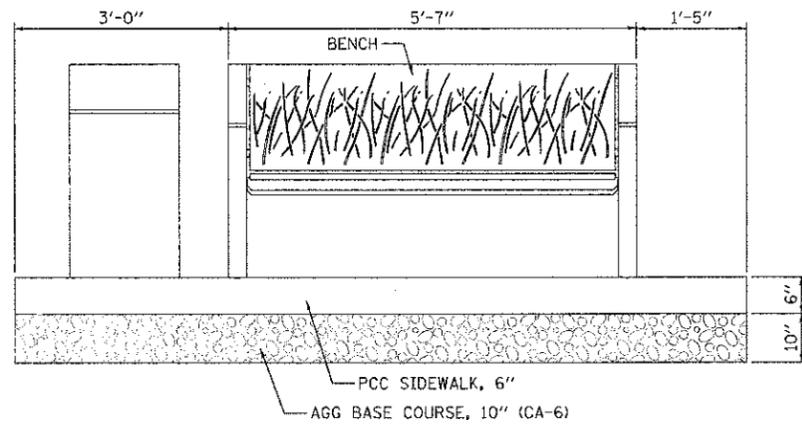
F.A.P. RTE. 0336	SECTION 00-00259-00-BT	COUNTY KANE	TOTAL SHEETS 79	SHEET NO. 25
CONTRACT NO. 63667				
FED. ROAD DIST. NO. ILLINOIS FED. AID PROJECT				



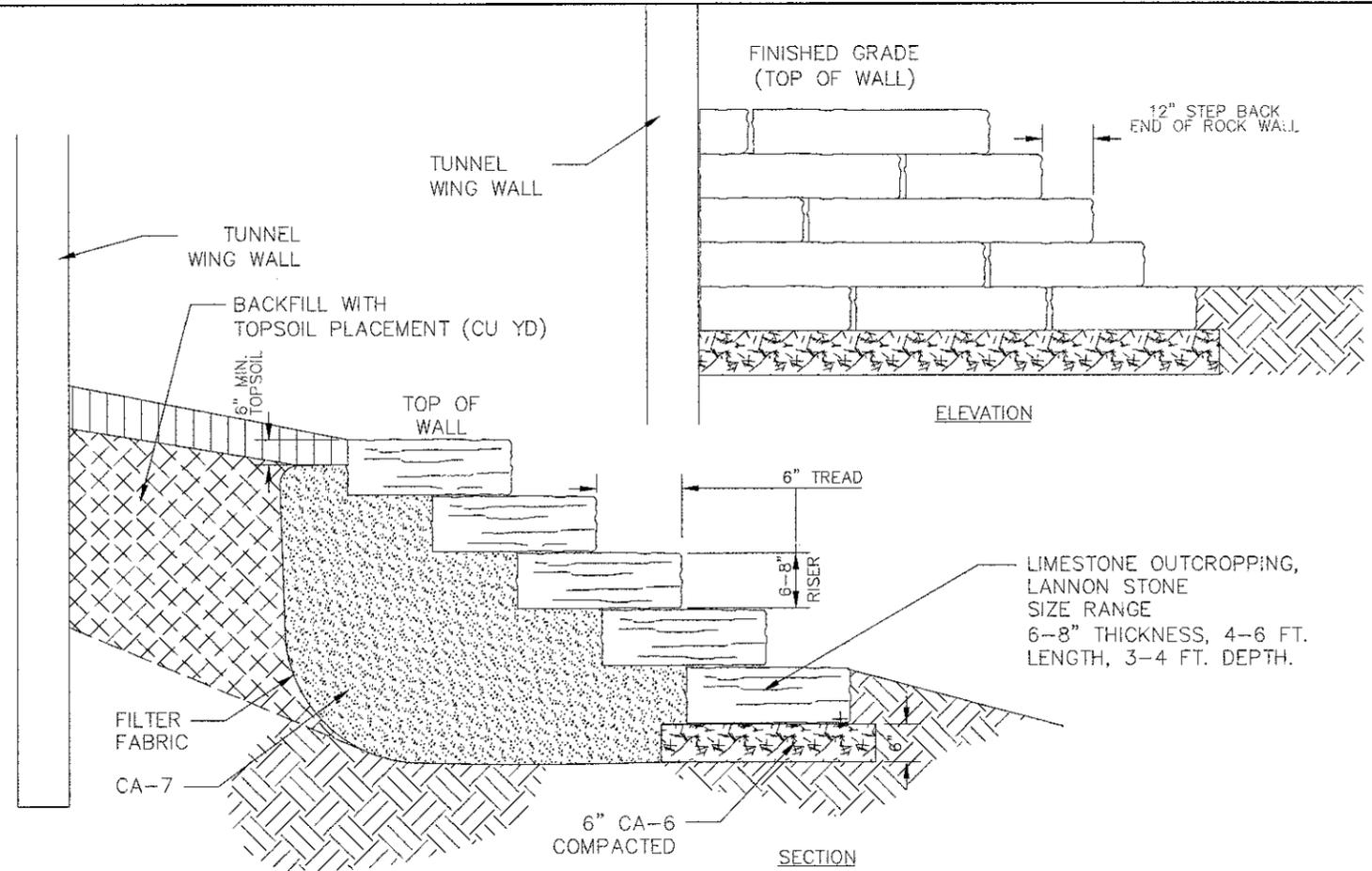




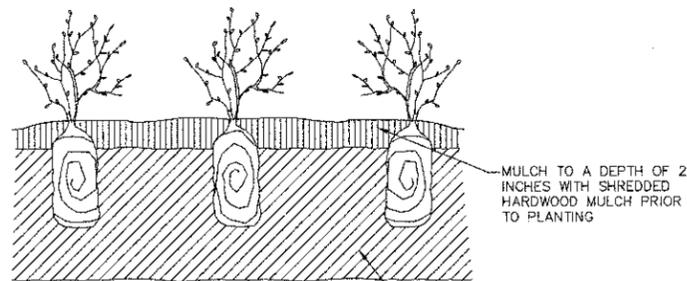
**CONCRETE STAMP PATTERN**  
FOR PCC SIDEWALK, SPECIAL



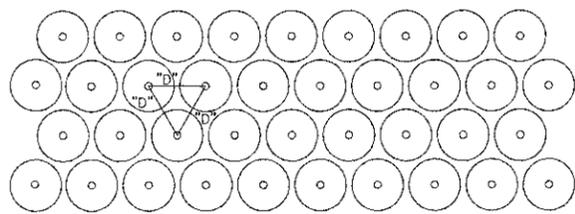
**PARK BENCH AND PAD DETAIL**



**LIMESTONE OUTCROPPING RETAINING WALL DETAIL**

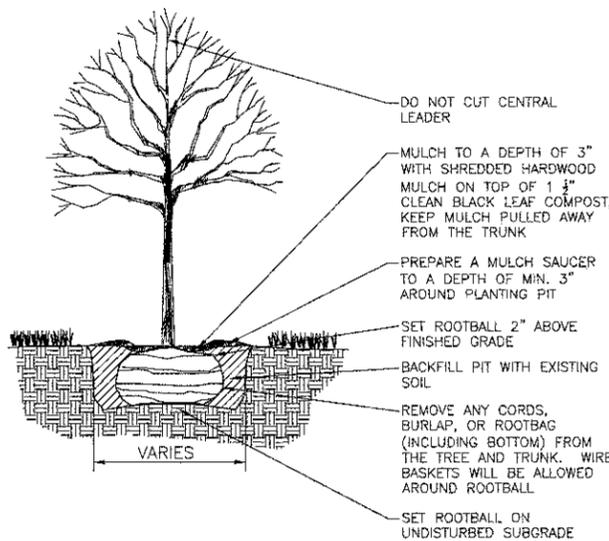


**BED PLANTING**

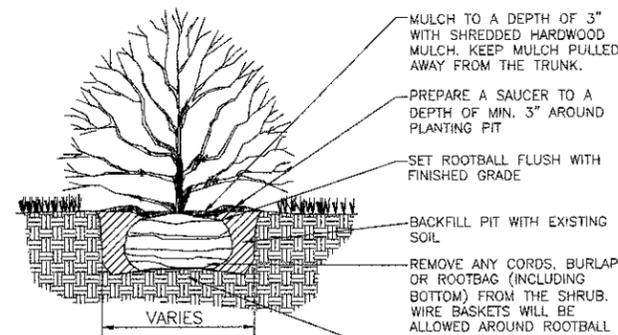


**TYPICAL PLANT SPACING**

**PERENNIAL PLANTING DETAIL - ORNAMENTAL**



**TREE PLANTING DETAIL**



**SHRUB PLANTING DETAIL**

**PLANTING LIST**

PERENNIAL PLANTS, ORNAMENTAL TYPE, 3-GALLON POT			
QUANTITY	SCIENTIFIC NAME	COMMON NAME	COLOR
28.0	SPOROBOLUS HETEROLEPIS 'TARA'	PRAIRIE DROPSEED	
65.0	PANICUM VIRGATUM 'PRAIRIE FIRE'	SWITCH GRASS	
38.0	PENNISETUM ALOPECUROIDES 'HAMELN'	FOUNTAIN GRASS	
25.0	PEROVSKIA ATRIPLICIFOLIA	RUSSIAN SAGE	PURPLE
156.0	TOTAL NUMBER OF PLANTS (30" ON CENTER)		
1.56	TOTAL NUMBER OF UNITS		

PERENNIAL PLANTS, ORNAMENTAL TYPE, 1-GALLON POT			
QUANTITY	SCIENTIFIC NAME	COMMON NAME	COLOR
88.0	ECHINACEA PURPUREA 'ALBA'	CONEFLOWER	WHITE
112.0	HEMEROCALLIS 'CHICAGO SUNRISE'	DAYLILLY	GOLD
13.0	MONARDA DIDYMA 'PETITE DELIGHT'	WILD BERGAMOT	PINK
18.0	RUDBECKIA FULGIDA 'GOLDSTRUM'	BLACK-EYED SUSAN	GOLD
42.0	SALVIA NEMEROSA 'BLUE HILL'	SALVIA	BLUE
54.0	SEDUM MATRONA'	SEDUM	PINK
327.0	TOTAL NUMBER OF PLANTS (18" ON CENTER)		
3.27	TOTAL NUMBER OF UNITS		

**TREE & SHRUB LIST**

WOODY PLANTS, TREES				
QUANTITY	SCIENTIFIC NAME	COMMON NAME	SIZE	TYPE
3	TREE, CELTIS OCCIDENTALIS	COMMON HACKBERRY	2" CALIPER	BALLED & BURLAPPED
2	GLEDITSIA TRIACANTHOS INERMIS	THORNLESS COMMON HONEYLOCUST	3" CALIPER	BALLED & BURLAPPED
2	MALUS PRAIRIFIRE	PRAIRIFIRE CRABAPPLE	6' HEIGHT	CLUMP FORM, BALLED & BURLAPPED
1	OSTRYA VIRGINIANA	AMERICAN HOPHORNBEAM	6' HEIGHT	CLUMP FORM, BALLED & BURLAPPED

WOODY PLANTS, SHRUBS				
QUANTITY	SCIENTIFIC NAME	COMMON NAME	SIZE	TYPE
18	RHUS AROMATICA GRO-LOW	GRO-LOW FRAGRANT SUMAC	2" WIDTH	BALLED & BURLAPPED
6	RHUS COPALLINA VAR LATIFOLIA MOR	PRAIRIE FLAME SHINING SUMAC	3' HEIGHT	BALLED & BURLAPPED

FILE NAME = W:\Projects\2012\01\100191\_SouthSPETI\_Vegetation\Drawings\Sheet\LSP\_3.dwg

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116 West Main Street, Suite 201  
St. Charles, Illinois 60174

USER NAME = nparriss	DESIGNED - DPB	REVISED -
PLOT SCALE = AS SHOWN	DRAWN - NDP	REVISED -
PLOT DATE = 5/11/2012	CHECKED - DPB	REVISED -
	DATE - 5/14/12	REVISED -

**STATE OF ILLINOIS**  
**DEPARTMENT OF TRANSPORTATION**

LANDSCAPE DETAILS			
SCALE: AS SHOWN	SHEET NO. 28 OF 79 SHEETS	STA. TO STA.	F.A.P. RTE.
			0336

SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
00-00259-00-BT	KANE	79	28

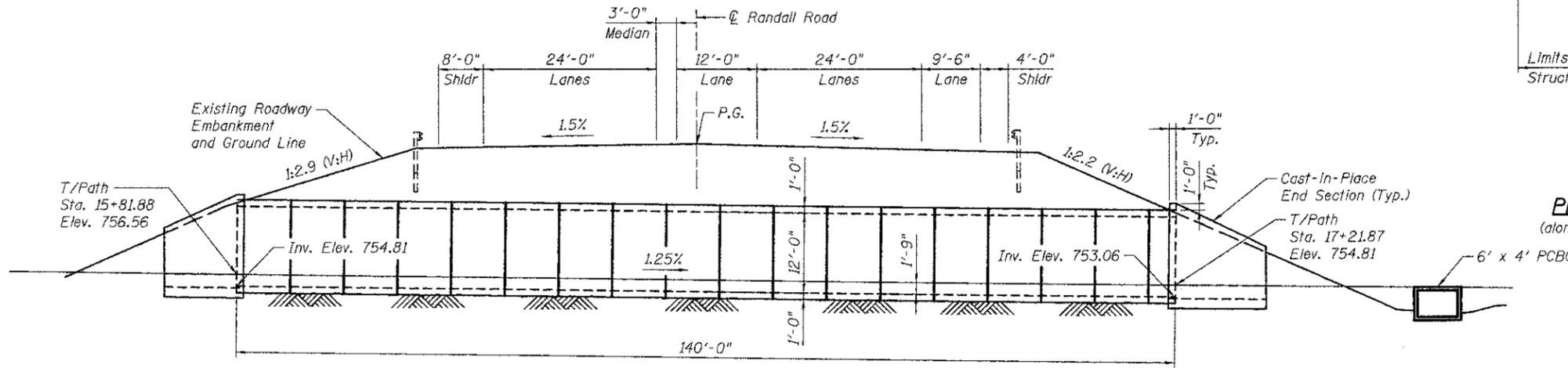
CONTRACT NO. 63667

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

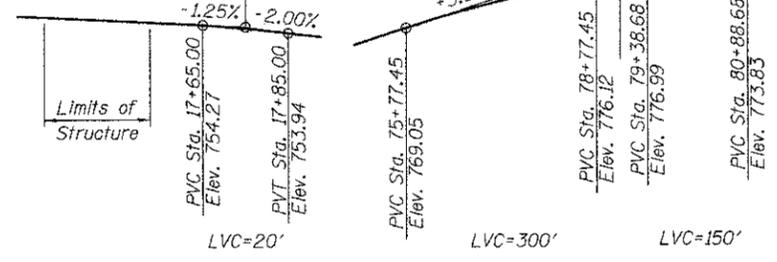
Bench Mark: NE Bonnet Bolt on Fire Hydrant on North side of South Street - approximately 350' SW of Gary Lane. Elev. 752.48.

Traffic will be maintained on Randall Road during installation of the tunnel.

Existing Structure: None



**LONGITUDINAL SECTION**



**PROFILE GRADE**  
(along S South Street Trail)

**PROFILE GRADE**  
Randall Road  
(Existing P.G.)

**DESIGN SPECIFICATIONS**

2012 AASHTO LRFD Bridge Design Specifications

**DESIGN STRESSES**

**FIELD UNITS**

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

**LOADING HL-93**

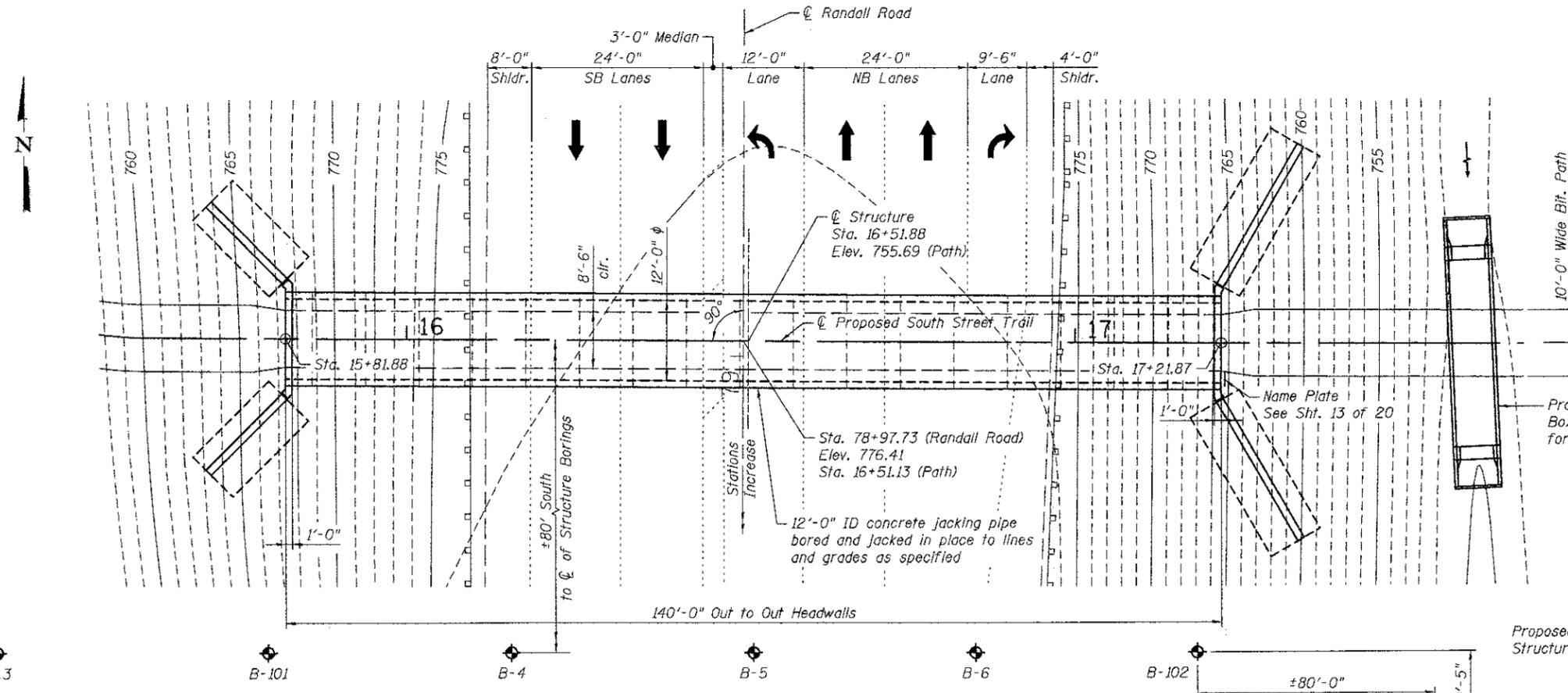
Allow 50#/sq. ft. for future wearing surface

**SEISMIC DATA**

Seismic Performance Zone (SPZ) = 1  
Design Spectral Acceleration at 1.0 sec. ( $S_{D1}$ ) = 0.060g  
Design Spectral Acceleration at 0.2 sec. ( $S_{D5}$ ) = 0.104g  
Soil Site Class = C

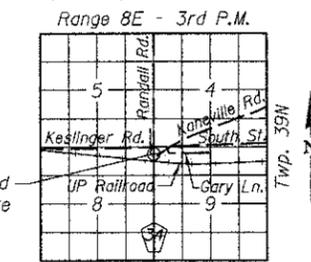
I certify that to the best of my knowledge, information and belief, this structure design is structurally adequate for the design loading shown on the plans. The design is an economical one for the style of structure and complies with requirements of the current "AASHTO LRFD Bridge Design Specifications".

*David L. Smoot*  
David L. Smoot  
Date: 05/07/2012  
License Expires: 11/30/2012



**PLAN**

◆ Indicates Soil Boring Location



**LOCATION SKETCH**

**GENERAL PLAN & ELEVATION  
BICYCLE/PEDESTRIAN TUNNEL**

**UNDER RANDALL ROAD  
SOUTH STREET TRAIL  
SEC. 00-00259-00-BT  
KANE COUNTY  
STATION 16+51.88  
STRUCTURE NO. 045-3181**

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St. Charles, Illinois 60174  
312-580-445-7765

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PLOT DATE = 5/11/2012	DRAWN - DLS	REVISED -
	CHECKED - AEU	REVISED -

**STATE OF ILLINOIS  
DEPARTMENT OF TRANSPORTATION**

SHEET NO. 1 OF 20 SHEETS

F.A.P. RTE. 0336	SECTION 00-00259-00-BT	COUNTY KANE	TOTAL SHEETS 79	SHEET NO. 29
FED. ROAD DIST. NO. [ILLINOIS] FED. AID PROJECT			CONTRACT NO. 63667	

TOTAL BILL OF MATERIAL

ITEM	UNIT	TOTAL
Structure Excavation	Cu. Yd.	519
Removal and Disposal of Unsuitable Material for Structures	Cu. Yd.	303
Concrete Structures	Cu. Yd.	140.0
Reinforcement Bars, Epoxy Coated	Pound	9,060
Name Plate	Each	1
Geocomposite Wall Drain	Sq. Yd.	94
* Porous Granular Embankment, Special	Cu. Yd.	125
* Pipe Underdrain for Structures 4"	Foot	172
* Concrete Jacking Pipe Special, Tunneled	Foot	140
* Staining Concrete Structures	Sq. Yd.	134
* Form Liner Textured Surface	Sq. Ft.	1,235
* Anti-Graffiti Protection System	Sq. Ft.	1,201
* Aluminum Railing, Special	Foot	116
* Furnish and Install Handrail	Foot	280
* Coating System for Concrete	Sq. Ft.	3,960
* Granular Subgrade Replacement	Cu. Yd.	303

\* Denotes a Special Provision

INDEX OF SHEETS

1. General Plan & Elevation
2. General Notes, Index of Sheets & Bill of Material
3. Tunnel Section & Details
4. Tunnel Floor Details
5. Tunnel Construction - Stage 1
6. Tunnel Construction - Stage 2
7. Tunnel Construction - Stage 3
8. Tunnel Construction - Stage 4
9. End Section Details I
10. End Section Details II
11. Undercuts at End Sections
12. End Section Railing Details
13. Architectural Details - Tunnel End Sections
14. Soil Boring Logs I
15. Soil Boring Logs II
16. Soil Boring Logs III
17. Soil Boring Logs IV
18. Soil Boring Logs V
19. Soil Boring Logs VI
20. Soil Boring Logs VII

GENERAL NOTES

1. Reinforcement bars shall conform to the requirements of ASTM A 706 Gr. 60.
2. Reinforcement bars designated (E) shall be epoxy coated.

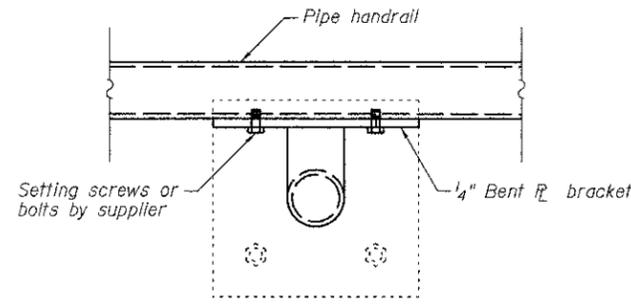
SOUTH STREET TRAIL  
BICYCLE/PEDESTRIAN UNDERPASS  
BUILT 201X BY  
KANE COUNTY  
SEC. 00-00259-00-BT  
F.A.P. RT. 0336  
STRUCTURE NO. 045-3181

NAME PLATE

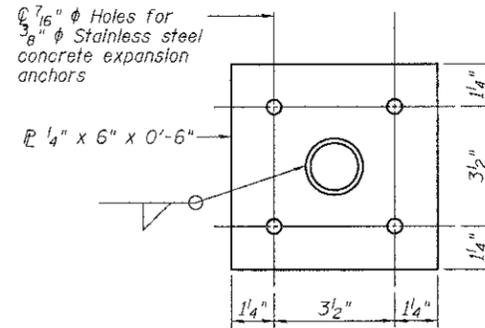
See Std. 515001

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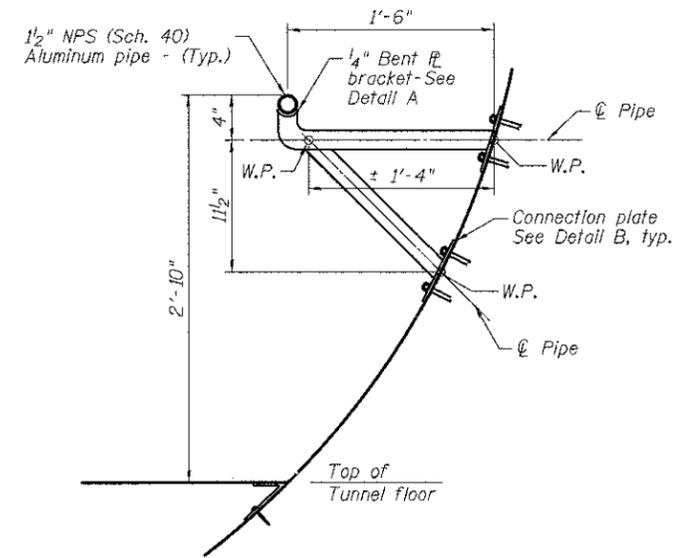
 <b>WILLS BURKE KELSEY ASSOCIATES LTD.</b> 110 West Main Street, Suite 201 St. Charles, Illinois 63174 (630) 443-7755	USER NAME = nparris	DESIGNED - DLS	REVISED -	<b>STATE OF ILLINOIS</b> <b>DEPARTMENT OF TRANSPORTATION</b>	<b>GENERAL NOTES, INDEX OF SHEETS &amp; TOTAL BILL OF MATERIAL</b> <b>STRUCTURE NO. 045-3181</b>	F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
	PLOT SCALE =	CHECKED - AEU	REVISED -			0336	00-00259-00-BT	KANE	79	30
	PLOT DATE = 5/11/2012	DRAWN - DLS	REVISED -			<b>CONTRACT NO. 63667</b>				
	CHECKED - AEU	REVISED -		SHEET NO. 2 OF 20 SHEETS			FED. ROAD DIST. NO.	ILLINOIS FED. AID PROJECT		



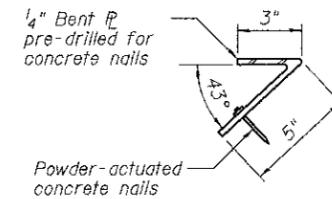
DETAIL A



DETAIL B



ELEVATION  
TUNNEL HANDRAIL



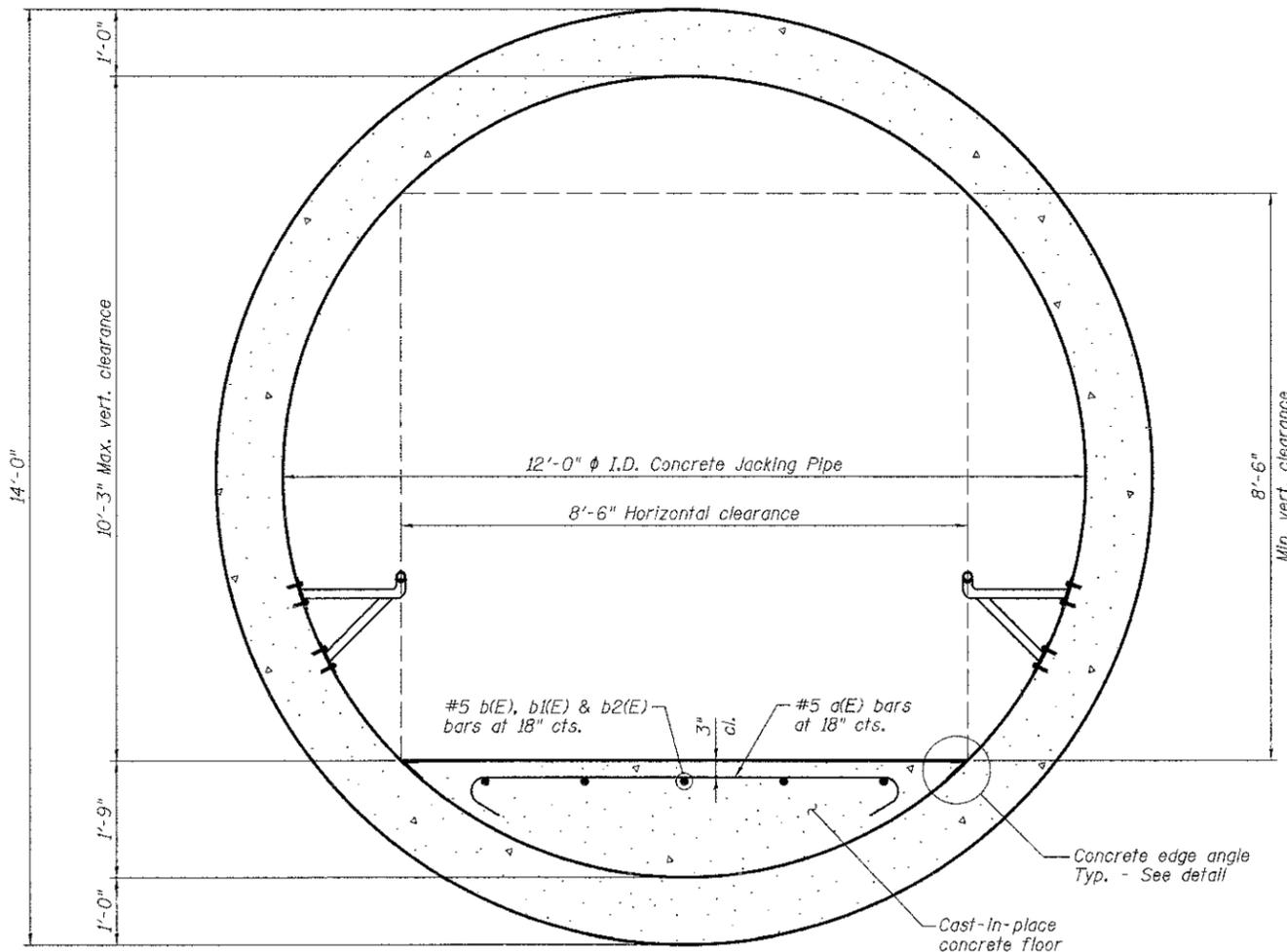
DETAIL  
CONCRETE EDGE ANGLE

BILL OF MATERIAL

Item	Unit	Total
Concrete Jacking Pipe Special, Tunneled	Foot	140
Furnish and Install Handrail	Foot	280
Coating System for Concrete	Sq. Ft.	3,960

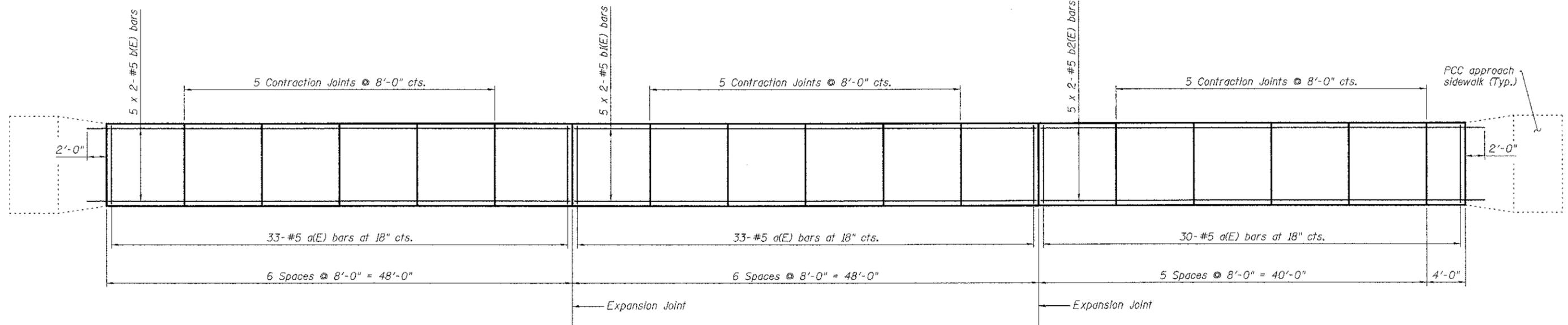
NOTES

- All tunneling procedures, tunneling operations and monitoring during the boring and jacking of the concrete jacking pipe shall adhere to the Special Provision entitled "Concrete Jacking Pipe Special, Tunneled."
- The tunnel handrail shall conform to the Special Provision "Furnish and Install Handrail."
- The bent plate material for the concrete floor edge shall be AASHTO M 270 Grade 36. Material and installation for this detail will not be paid for separately, but shall be included in the Contract unit price for Concrete Structures.



SECTION THROUGH TUNNEL

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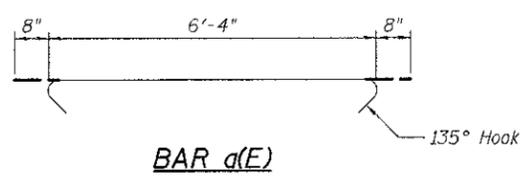


**PLAN  
TUNNEL FLOOR**

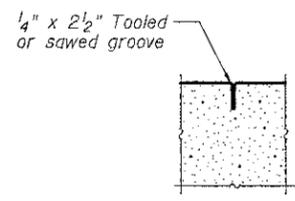
**MIN. BAR LAP**  
#5 bar = 3'-0"

**BILL OF MATERIAL**

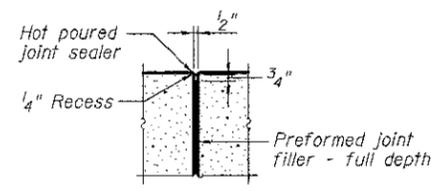
Bar	No.	Size	Length	Shape
a(E)	96	#5	7'-8"	↔
b(E)	10	#5	26'-5"	—
b1(E)	10	#5	25'-4"	—
b2(E)	10	#5	24'-5"	—
Concrete Structures			Cu. Yd.	53.3
Reinforcement Bars, Epoxy Coated			Pound	1,570



**BAR a(E)**



**DETAIL  
CONTRACTION JOINT**



**DETAIL  
EXPANSION JOINT**

**NOTES**

1. Bars called out as 5 x 2-#5 bars indicates 5 lines of bars with 2 lengths per line. Longitudinal bars shall not pass through the expansion joints.
2. The b(E) and b2(E) bars shall be extended 2'-0" into the tunnel concrete approach slabs at each end.
3. The tunnel floor concrete shall be colored and the coloring shall match the coloring of the approach PCC sidewalk. The coloring of the concrete shall adhere to the requirements set forth in the Special Provision "Portland Cement Concrete Sidewalk 6 Inch, Special." In addition, the surface of the tunnel floor shall have a heavy broom finish. The coloring of concrete and broom finish will not be paid for separately, but shall be included in the Contract unit price for Concrete Structures.
4. Expansion joints and contraction joints will not be paid for separately, but shall be included in the Contract unit price for Concrete Structures.

FILE NAME = M:\P\Projects\2010\180091\_SouthSide\11\Acad\Struct\1.Dgn; V:\Final\180091-63667-004-TunnelFloorDetail.dgn

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 St. Charles, Illinois 60174  
 (830) 443-7755

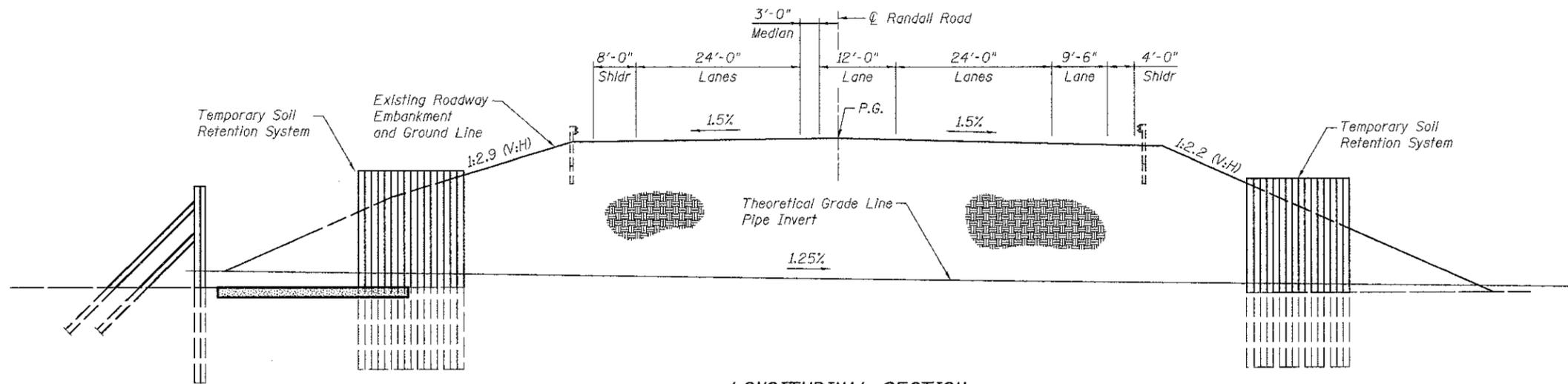
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**STATE OF ILLINOIS  
DEPARTMENT OF TRANSPORTATION**

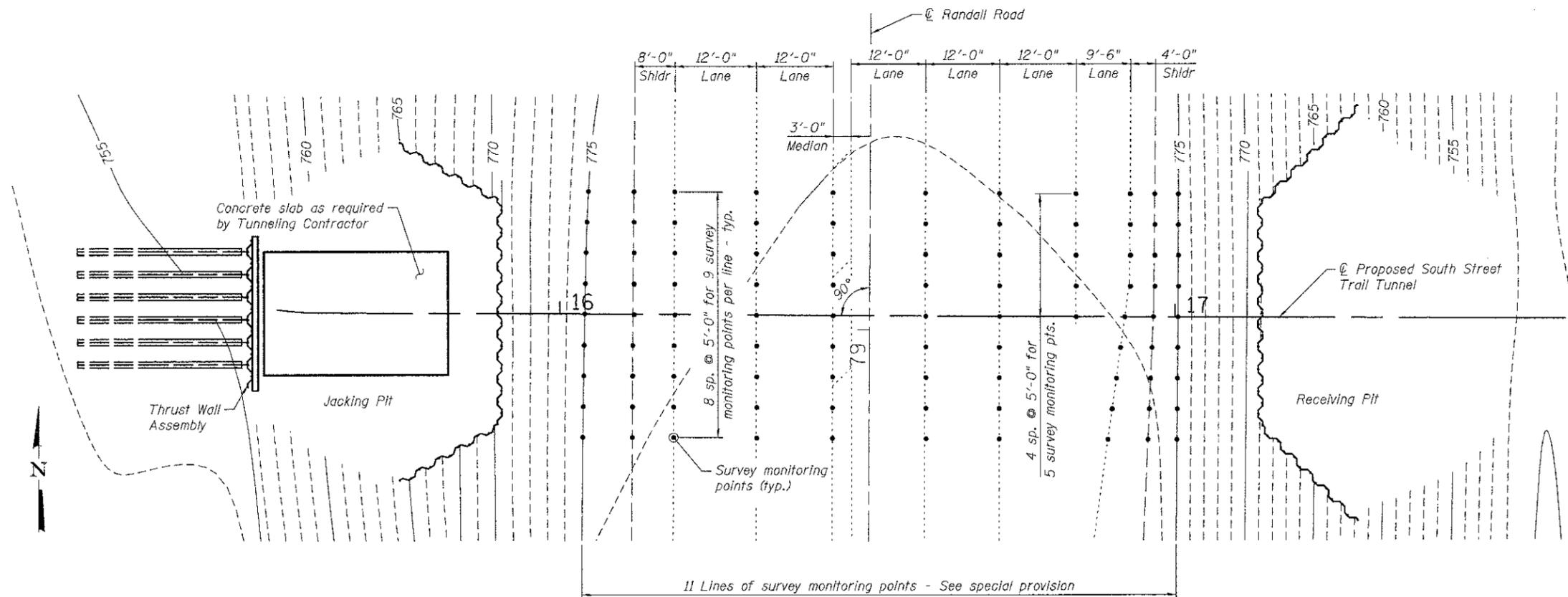
**TUNNEL FLOOR DETAILS  
STRUCTURE NO. 045-3181**

SHEET NO. 4 OF 20 SHEETS

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
0336	00-00259-00-BT	KANE	79	32
CONTRACT NO. 63667				
FED. ROAD DIST. NO.	ILLINOIS FED. AID PROJECT			



**LONGITUDINAL SECTION  
CONSTRUCTION STAGE 1**



**PLAN  
CONSTRUCTION STAGE I**

**NOTES  
CONSTRUCTION STAGE 1**

1. Construction Stage 1 is the mobilization stage and includes the installation of the soil retention systems, installation of the jacking thrust wall and installation of the concrete jacking platform slab.
2. Because of heavy traffic on Randall Road and at the intersection of Randall Road and Kaneville/Keslinger Roads and the close proximity to Delnor Hospital, the Contractor shall adhere strictly to provisions concerning maintenance and safety of traffic when entering and exiting the project access areas.
3. Site preparation and installation of structural systems, soil retention systems and survey monitoring systems shall adhere to the special provision "Concrete Jacking Pipe Special, Tunneled."
4. PK nails in the Randall Road pavement and steel rods in the embankment shall be installed as outlined in the special provision during Stage 1.
5. The initial survey work shall be performed with lane closures according to Highway Standard 701601-07 and this initial survey work and traffic control will be paid for as "Traffic Control and Protection, Standard 701601."
6. The daily survey point monitoring will be paid for as Pay Item X0320622 "Field Measurements" and shall include all monitoring work, data collection and traffic control. Daily survey point monitoring shall be performed utilizing traffic control Highway Standard 701426-04.

FILE NAME = M:\Projects\2010\100991\_SouthStreetTunnel\Structural\Drawings\100991-63667-005-ConsStg01.dgn

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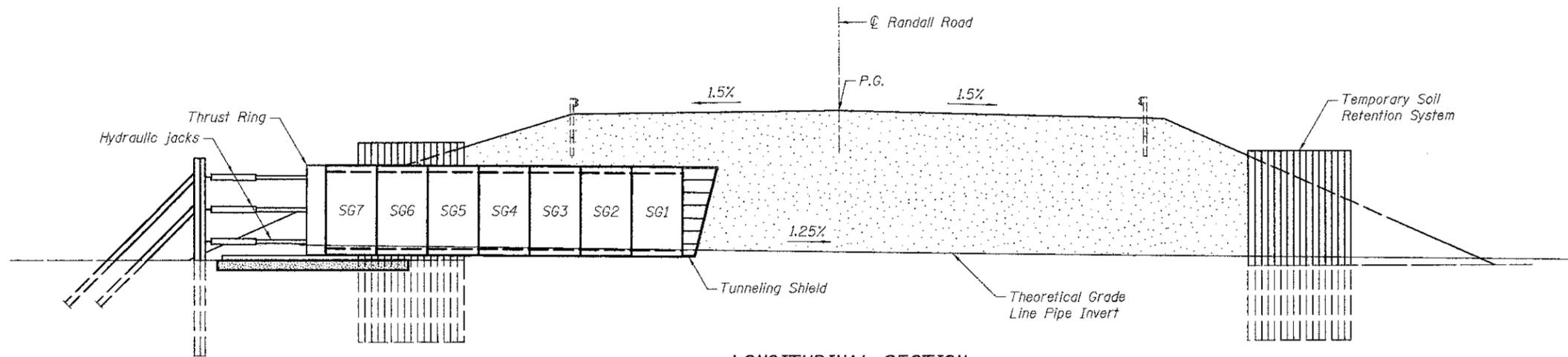
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**STATE OF ILLINOIS  
DEPARTMENT OF TRANSPORTATION**

**TUNNEL CONSTRUCTION - STAGE 1  
STRUCTURE NO. 045-3181**

SHEET NO. 5 OF 20 SHEETS

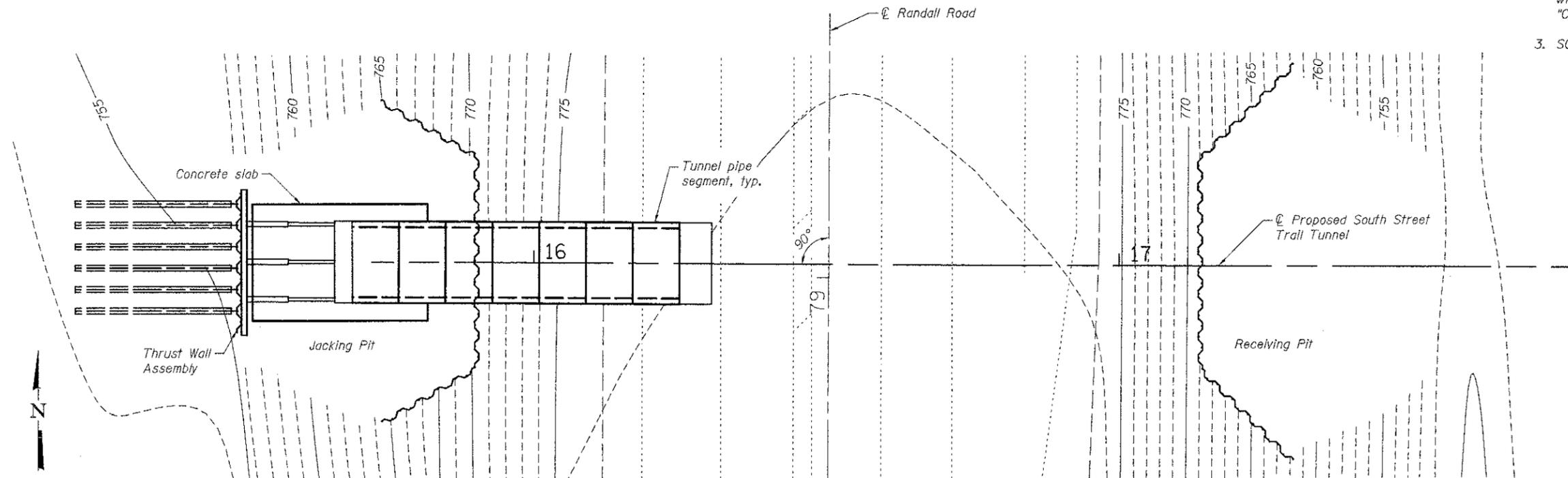
F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
0336	00-00259-00-BT	KANE	79	33
CONTRACT NO. 63667				
FED. ROAD DIST. NO. ILLINOIS FED. AID PROJECT				



**LONGITUDINAL SECTION  
CONSTRUCTION STAGE 2**

**NOTES  
CONSTRUCTION STAGE 2**

1. Construction Stage 2 is the boring and jacking of the 12-foot ID concrete jacking pipe by the Tunneling Contractor.
2. During this stage, close monitoring of the survey data points for displacement of the roadway and embankment will take place according to the special provision "Concrete Jacking Pipe Special, Tunneled."
3. SG refers to concrete jacking pipe segments.



**PLAN  
CONSTRUCTION STAGE 2**

FILE NAME = W:\Projects\2010\1000691\_SouthStreetTrail\Structural\Drawings\Stage2\045-3181-03667-005-ConsStg2.dwg

**WBK**  
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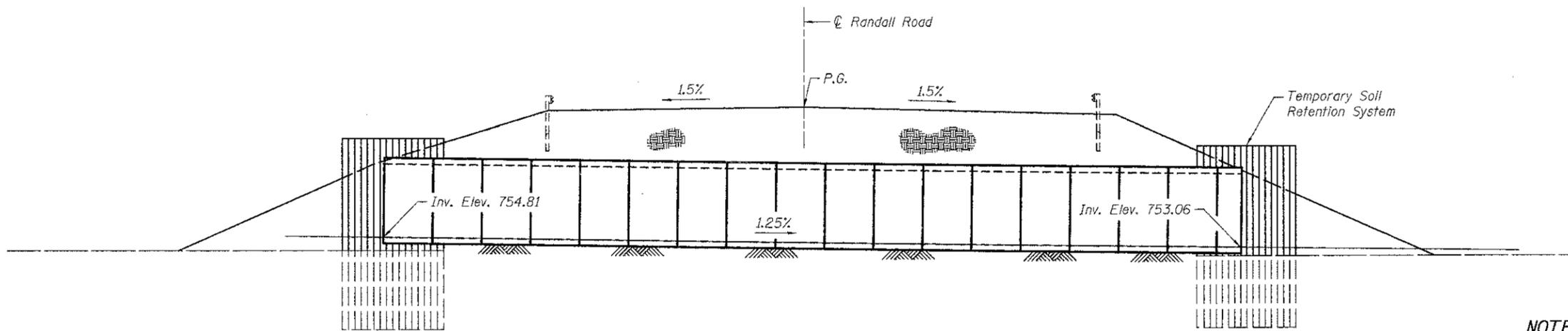
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PLOT DATE = 5/11/2012	CHECKED - AEU	REVISED -

**STATE OF ILLINOIS  
DEPARTMENT OF TRANSPORTATION**

**TUNNEL CONSTRUCTION - STAGE 2  
STRUCTURE NO. 045-3181**

SHEET NO. 6 OF 20 SHEETS

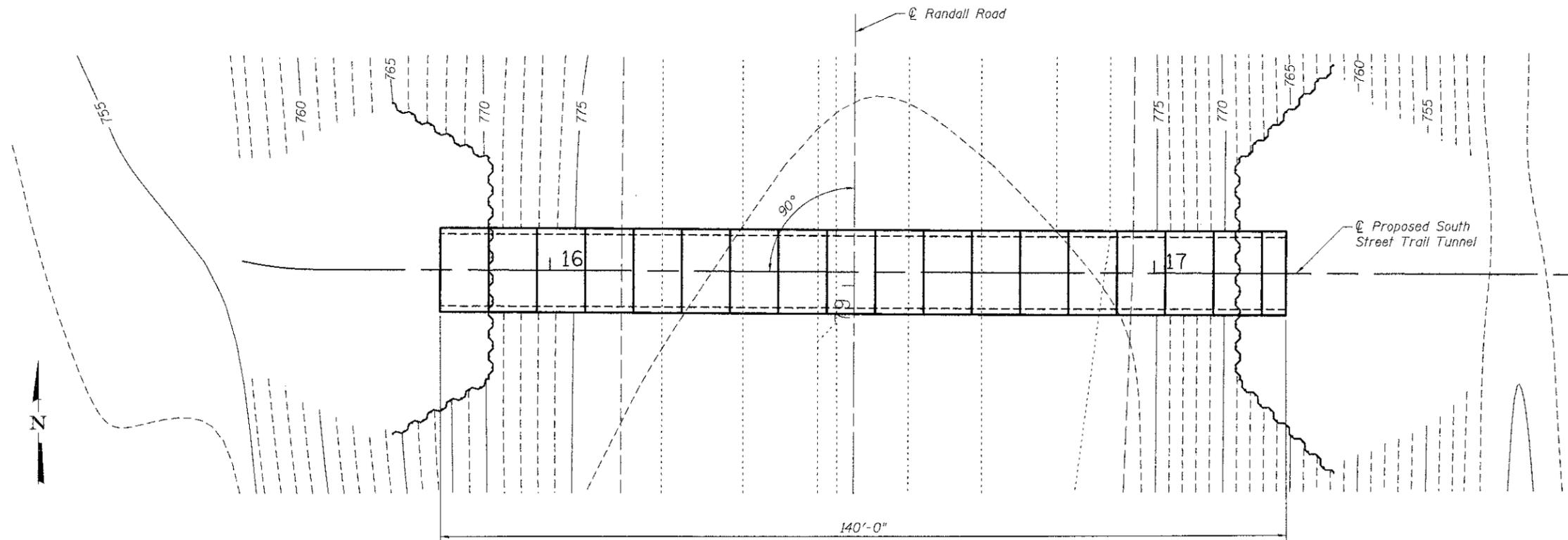
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0336	00-00259-00-BT	KANE	79	34
CONTRACT NO. 63667				
FED. ROAD DIST. NO.	ILLINOIS FED. AID PROJECT			



**LONGITUDINAL SECTION  
CONSTRUCTION STAGE 3**

**NOTES  
CONSTRUCTION STAGE 3**

1. Construction Stage 3 is the completion of the boring and jacking of the 140-foot long tunnel by the Tunneling Contractor and the disassembly of the tunneling jacking systems.
2. The final monitoring of the survey data points for displacement of the roadway and embankment will take place at the conclusion of the tunneling according to the special provision "Concrete Jacking Pipe Special, Tunneled."



**PLAN  
CONSTRUCTION STAGE 3**

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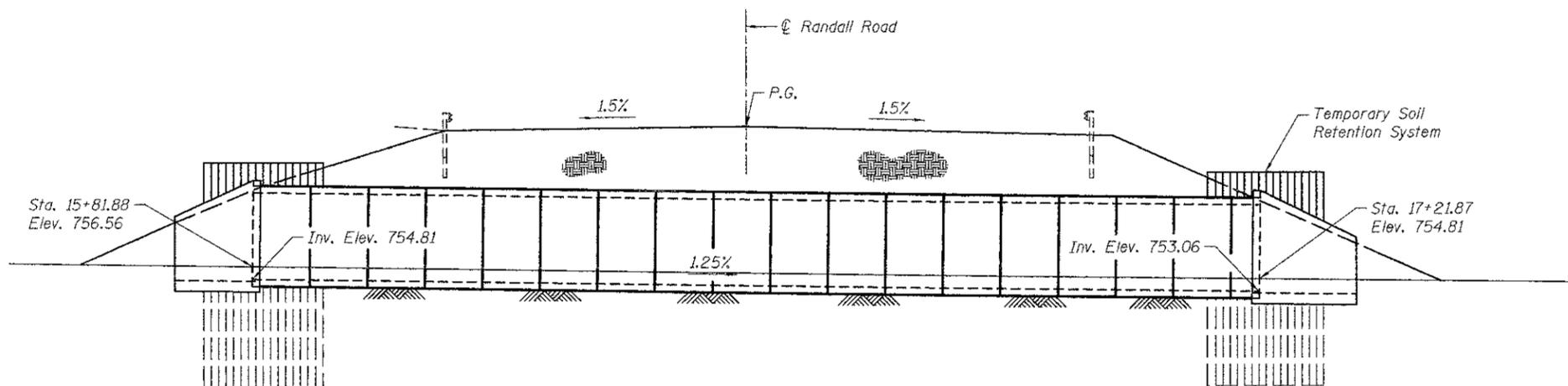
**WILLS BURKE KELSEY ASSOCIATES LTD.**  
115 West Main Street, Suite 201  
St. Charles, Illinois 60174  
Tel. (630) 443-7755

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**STATE OF ILLINOIS  
DEPARTMENT OF TRANSPORTATION**

**TUNNEL CONSTRUCTION - STAGE 3  
STRUCTURE NO. 045-3181**  
SHEET NO. 7 OF 20 SHEETS

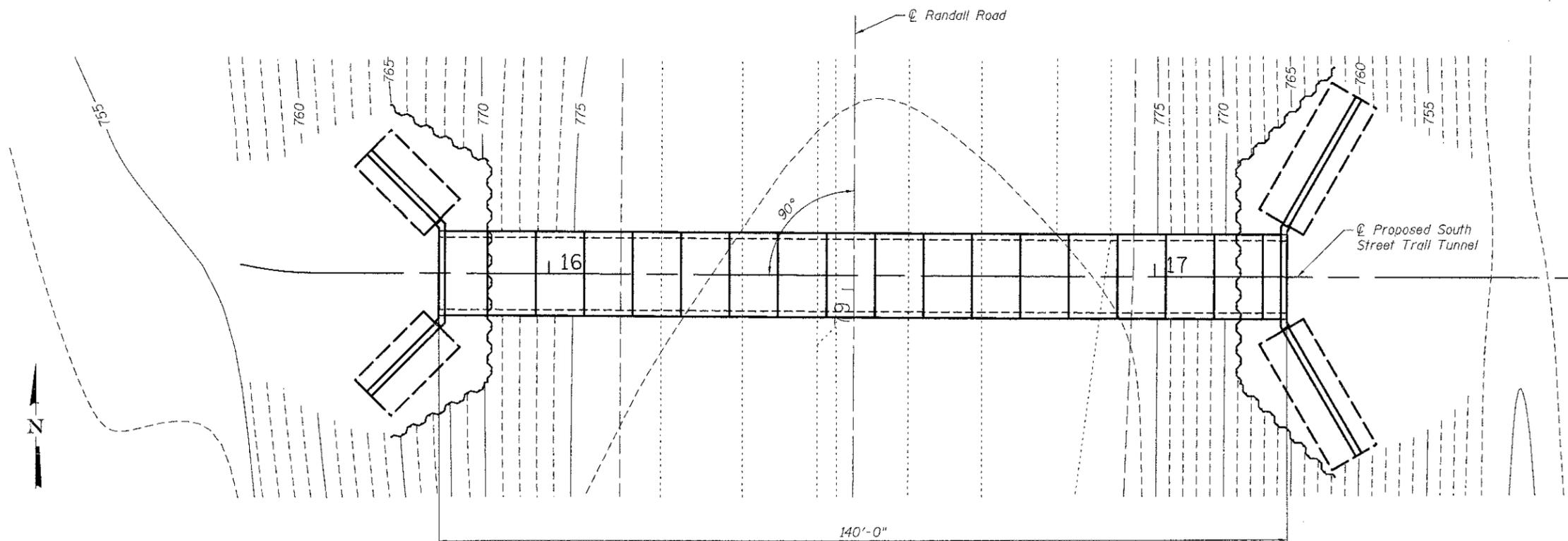
F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
0336	00-00259-00-BT	KANE	79	35
CONTRACT NO. 63667				
FED. ROAD DIST. NO.	ILLINOIS FED. AID PROJECT			



**LONGITUDINAL SECTION  
CONSTRUCTION STAGE 4**

**NOTES  
CONSTRUCTION STAGE 4**

1. Construction Stage 4 is the construction of the end sections, the removal of the temporary soil retention systems and the restoration of the site.
2. The end tunnel section shall be a 4-foot segment that is installed from the east side.



**PLAN  
CONSTRUCTION STAGE 4**

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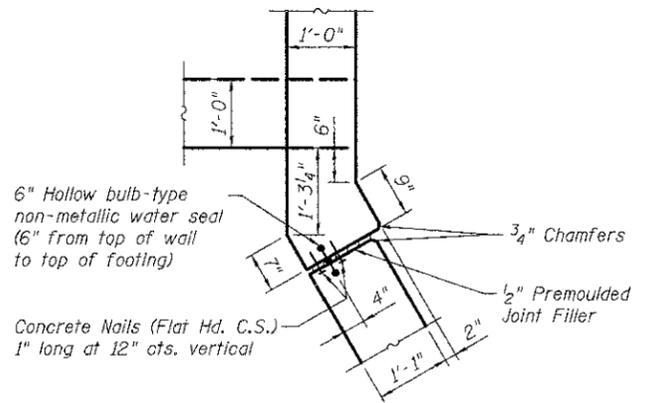
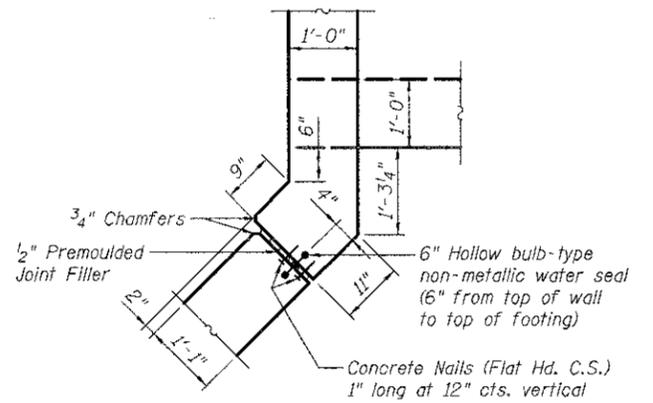
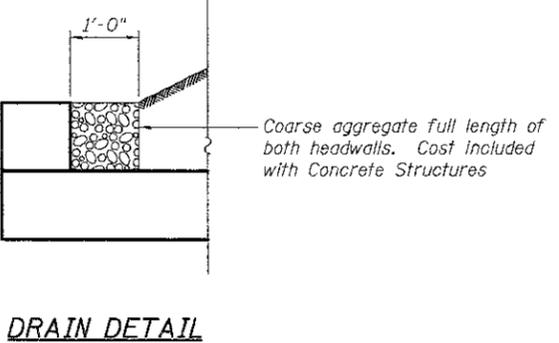
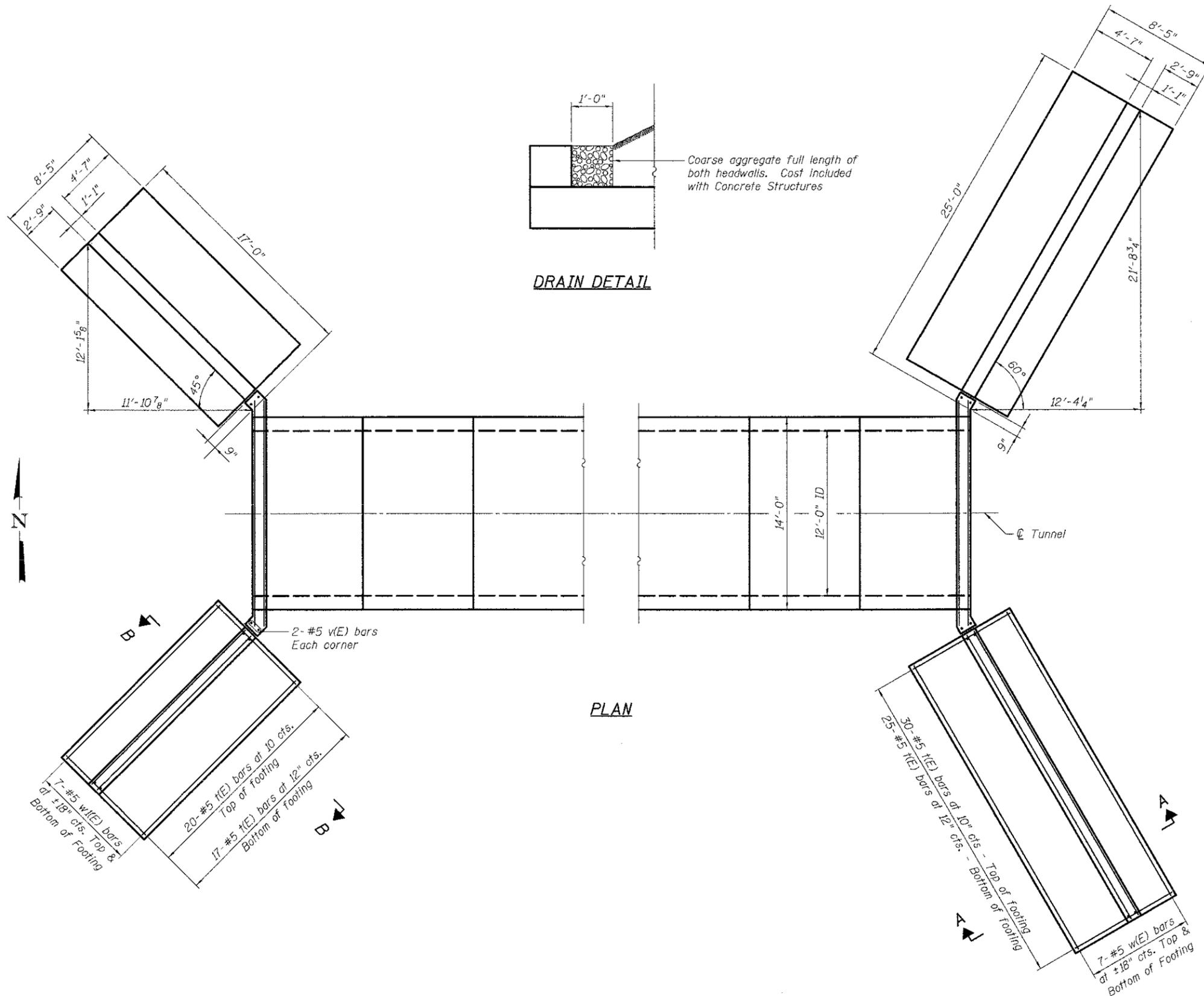
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DEPARTMENT OF TRANSPORTATION**

**TUNNEL CONSTRUCTION - STAGE 4  
STRUCTURE NO. 045-3181**  
 SHEET NO. 8 OF 20 SHEETS

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
0336	00-00259-00-BT	KANE	79	36
CONTRACT NO. 63667				
FED. ROAD DIST. NO.		ILLINOIS FED. AID PROJECT		



B

B

B

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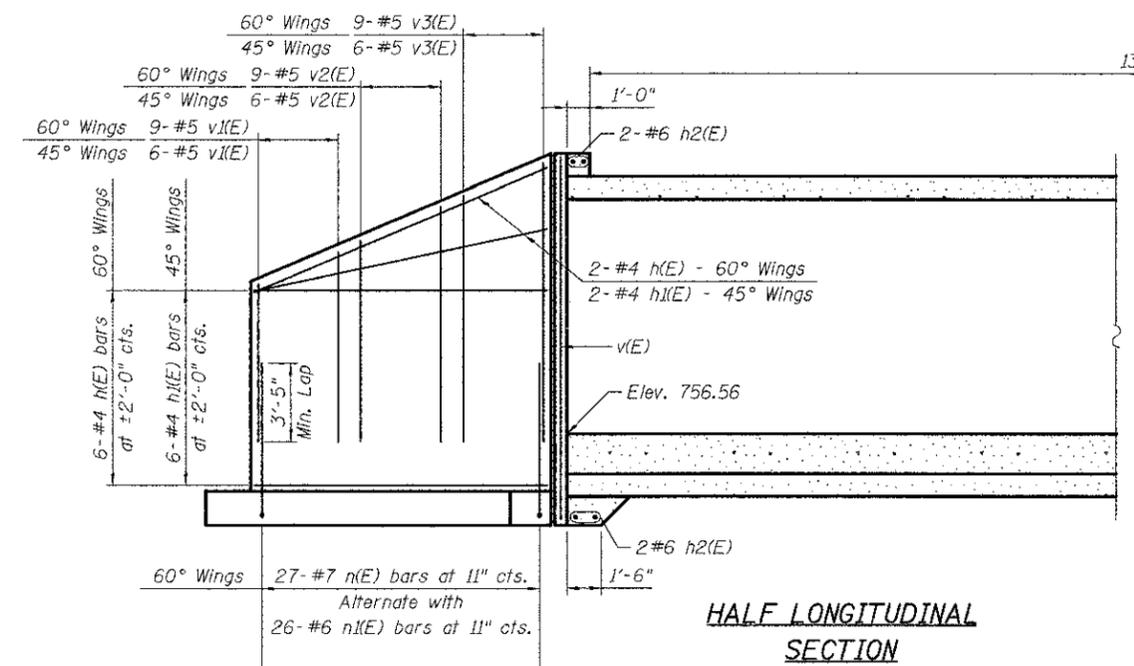
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**STATE OF ILLINOIS**  
**DEPARTMENT OF TRANSPORTATION**

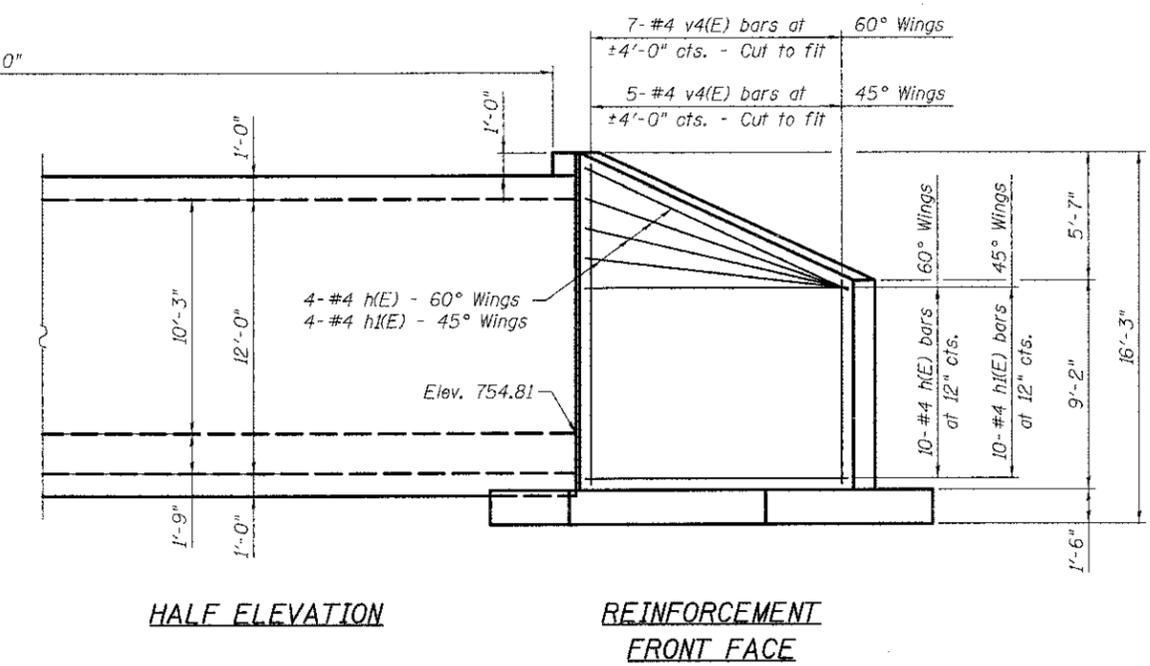
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**STRUCTURE NO. 045-3181**  
 SHEET NO. 9 OF 20 SHEETS

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
0336	00-00259-00-BT	KANE	79	37
CONTRACT NO. 63667				
FED. ROAD DIST. NO. [ILLINOIS] FED. AID PROJECT				

Randall Road & Tunnel

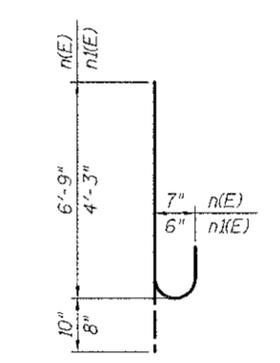


**HALF LONGITUDINAL SECTION**



**HALF ELEVATION**

**REINFORCEMENT FRONT FACE**

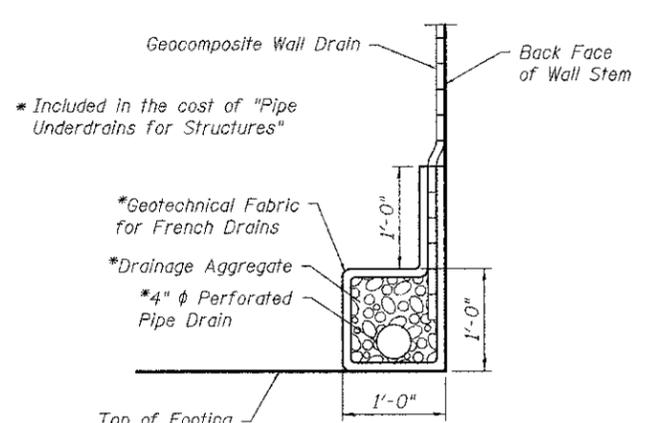


**BARS n(E) & n2(E)**

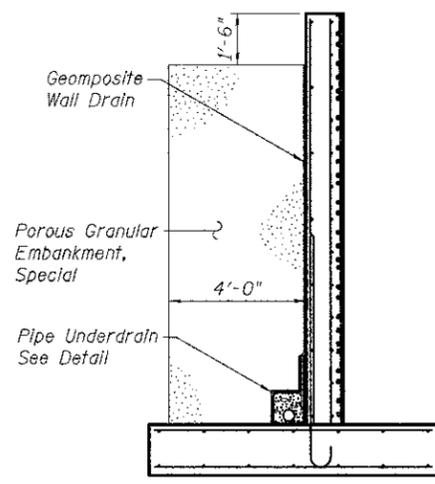
**REINFORCEMENT BACK FACE**

60° Wings	27-#7 n(E) bars at 11" cts.
	Alternate with 26-#6 n2(E) bars at 11" cts.
45° Wings	18-#7 n(E) bars at 11" cts.
	Alternate with 17-#6 n2(E) bars at 11" cts.

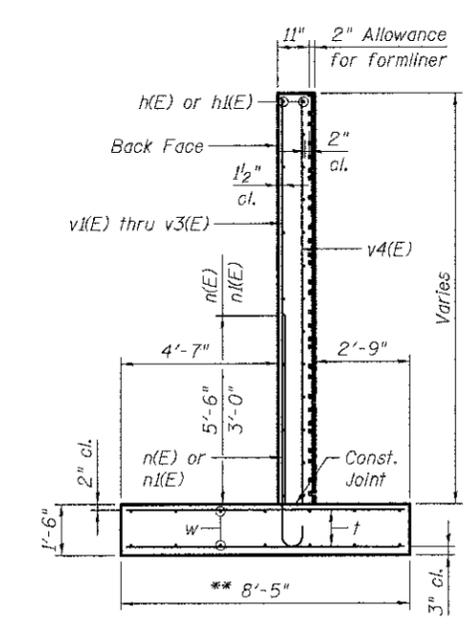
**REINFORCEMENT BACK FACE**



**PIPE UNDERDRAIN DETAIL**



**WINGWALL SECTION**  
Showing drainage and backfill details behind wingwalls



**SECTION A-A**  
**SECTION B-B**

**BILL OF MATERIAL**

Bar	No.	Size	Length	Shape
h(E)	44	#4	23'-10"	—
h2(E)	44	#4	15'-10"	—
h2(E)	8	#6	16'-4"	—
n(E)	90	#7	7'-7"	U
n2(E)	86	#6	4'-11"	U
t(E)	184	#5	8'-3"	—
v(E)	8	#5	15'-10"	—
v2(E)	30	#5	12'-5"	—
v3(E)	30	#5	8'-8"	—
v4(E)	24	#4	14'-4"	—
w(E)	28	#5	23'-10"	—
w2(E)	28	#5	15'-10"	—
Structure Excavation			Cu. Yd.	519
Concrete Structures			Cu. Yd.	86.7
Reinforcement Bars, Epoxy Coated			Pound	7,490
Geocomposite Wall Drain			Sq. Yd.	94
Porous Granular Embankment, Special			Cu. Yd.	125
Pipe Underdrain for Structures 4"			Foot	172

FILE NAME = M:\P\0\j\2010\000091\_SouthernPEI\0453181-63667-010-EndSectionDetail.dwg  
 WILLS BURKE KELSEY ASSOCIATES LTD.  
 110 West Main Street, Suite 201  
 St. Charles, Illinois 60174  
 (830) 443-7755

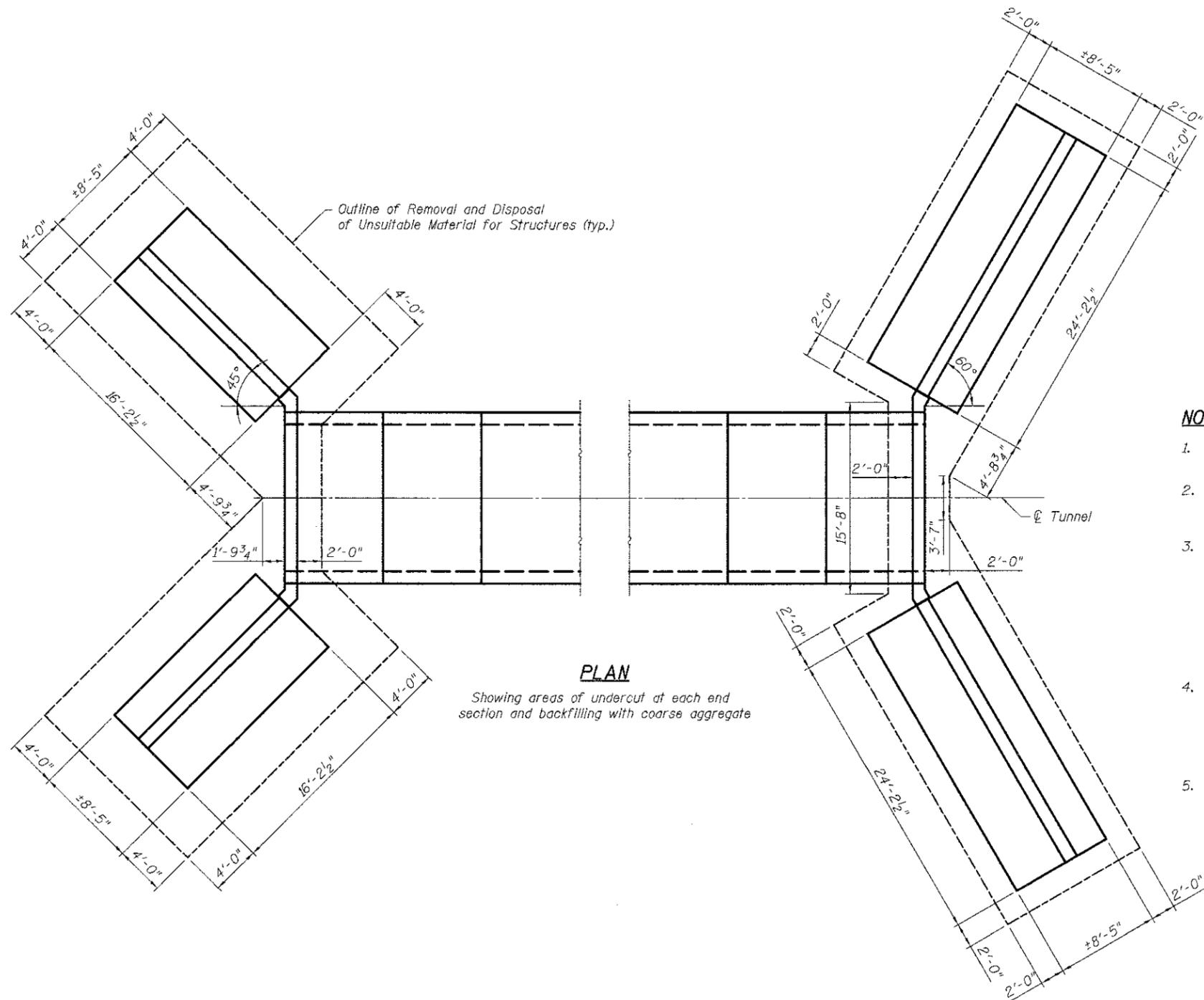
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**STATE OF ILLINOIS**  
**DEPARTMENT OF TRANSPORTATION**

**END SECTION DETAILS II**  
**STRUCTURE NO. 045-3181**

SHEET NO. 10 OF 20 SHEETS

F.A.P. RTE. 0336	SECTION 00-00259-00-BT	COUNTY KANE	TOTAL SHEETS 79	SHEET NO. 38
FED. ROAD DIST. NO. ILLINOIS FED. AID PROJECT			CONTRACT NO. 63667	



Outline of Removal and Disposal of Unsuitable Material for Structures (typ.)

**PLAN**  
Showing areas of undercut at each end section and backfilling with coarse aggregate

**BILL OF MATERIAL**

Item	Unit	Total
Removal and Disposal of Unsuitable Material for Structures	Cu. Yd.	303
Granular Subgrade Replacement	Cu. Yd.	303

**NOTES**

- Maximum design bearing pressure,  $q_{max}$ , at base of wingwall footing = 3,300 psf.
- The underlying soils at each end section require undercutting and backfilling with approved granular subgrade. The outline of the proposed undercut is indicated on the plan.
- Excavation for the end section construction will be paid for as follows: Structure Excavation will be paid for down to the footing elevation. Removal and Disposal of Unsuitable Material for Structures will be paid for below the bottom of footing elevation. To determine quantities, a depth of undercut at the west end section has been assumed to be 8 feet and the depth of undercut at the east end section has been assumed to be 2 feet. Additional Structure Excavation outside the normal excavation requirements of 2 feet to accommodate the removal of unsuitable material shall be included in the cost of Structure Excavation.
- The site geotechnical engineer shall monitor the preparation of compacted subgrades, construction of structural fills, determine adequacy of foundation bearing capacity, monitor backfilling and installation of footings. All work associated with undercutting, verification of subgrade capacity and backfilling shall be performed in compliance with the requirements of the site geotechnical engineer.
- The granular backfill for the undercuts shall conform to the Special Provision "Granular Subgrade Replacement."

FILE NAME = H:\Projects\2210\100001\Structural\Drawings\045-3181-01-EndSectionDetail.dwg

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(630) 443-7755

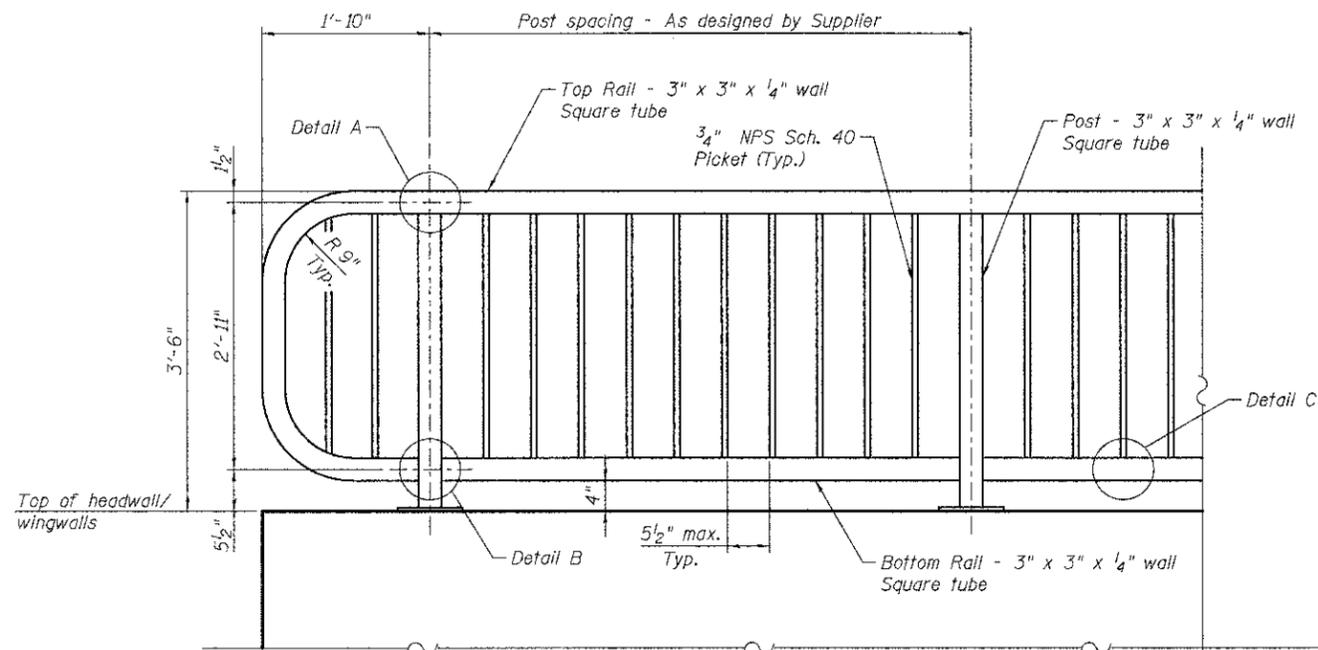
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**STATE OF ILLINOIS  
DEPARTMENT OF TRANSPORTATION**

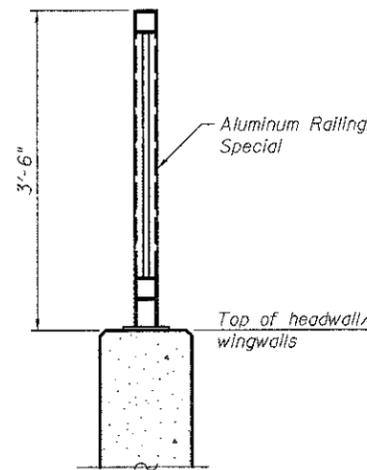
**UNDERCUTS AT END SECTIONS  
STRUCTURE NO. 045-3181**

SHEET NO. 11 OF 20 SHEETS

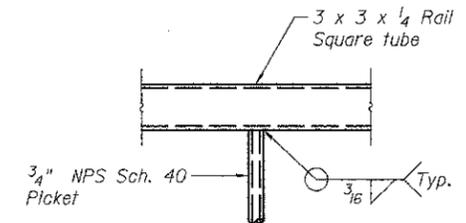
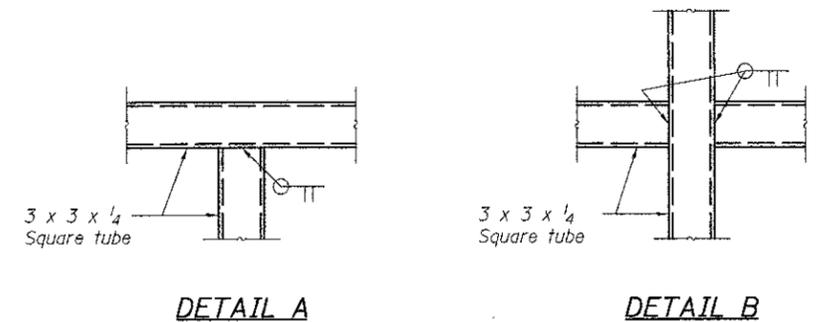
F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
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CONTRACT NO. 63667				
FED. ROAD DIST. NO. ILLINOIS FED. AID PROJECT				



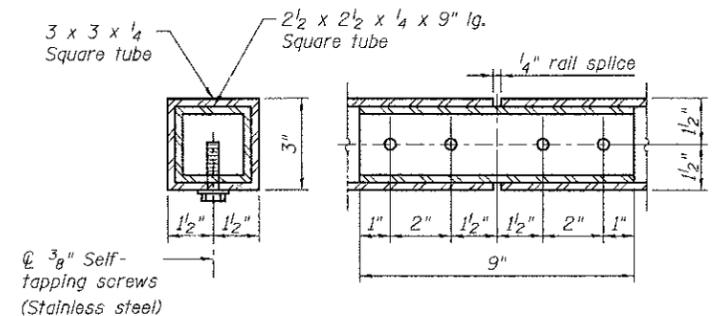
**ELEVATION**  
**ALUMINUM RAILING, SPECIAL**



**SECTION**



**DETAIL C**



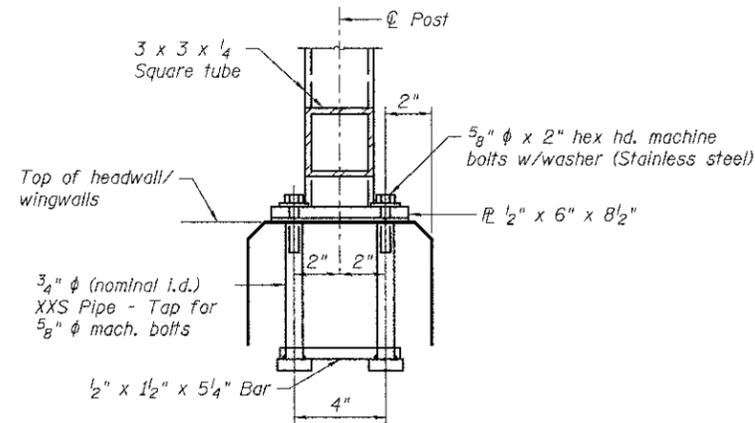
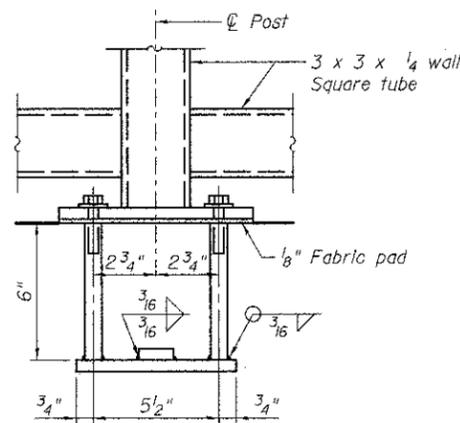
**RAIL SPLICE**

**BILL OF MATERIAL**

Item	Unit	Quantity
Aluminum Railing, Special	Foot	116

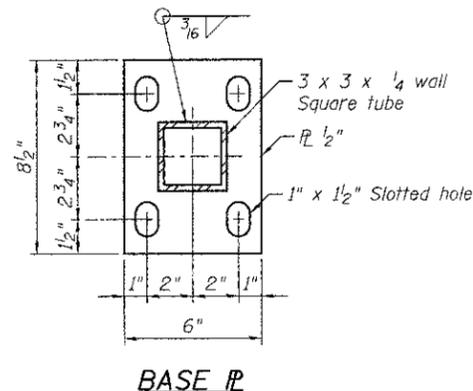
**NOTES**

- All work shall conform to the special provision Aluminum Railing, Special.
- Reinforcement shall be spaced to miss anchor rods.



**ANCHOR BOLT DETAILS**

In lieu of the cast-in-place anchor device shown, the Contractor has the option of drilling and setting 5/8" phi anchor rods according to Article 509.06 of the Standard Specifications. Embedment shall be according to the manufacturer's specifications.

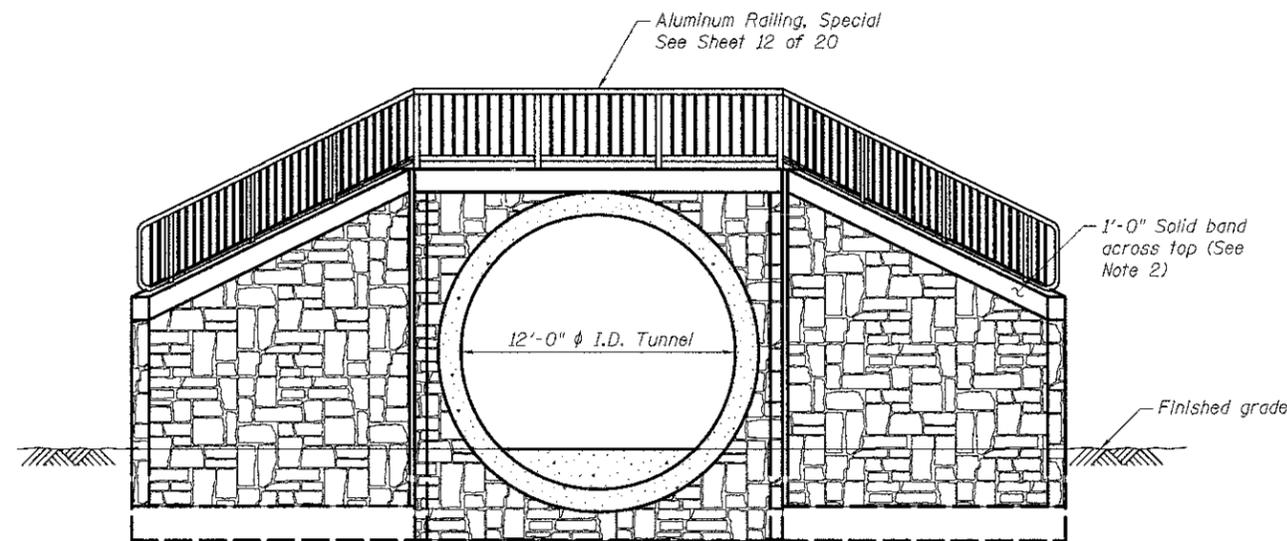


**BASE PL**

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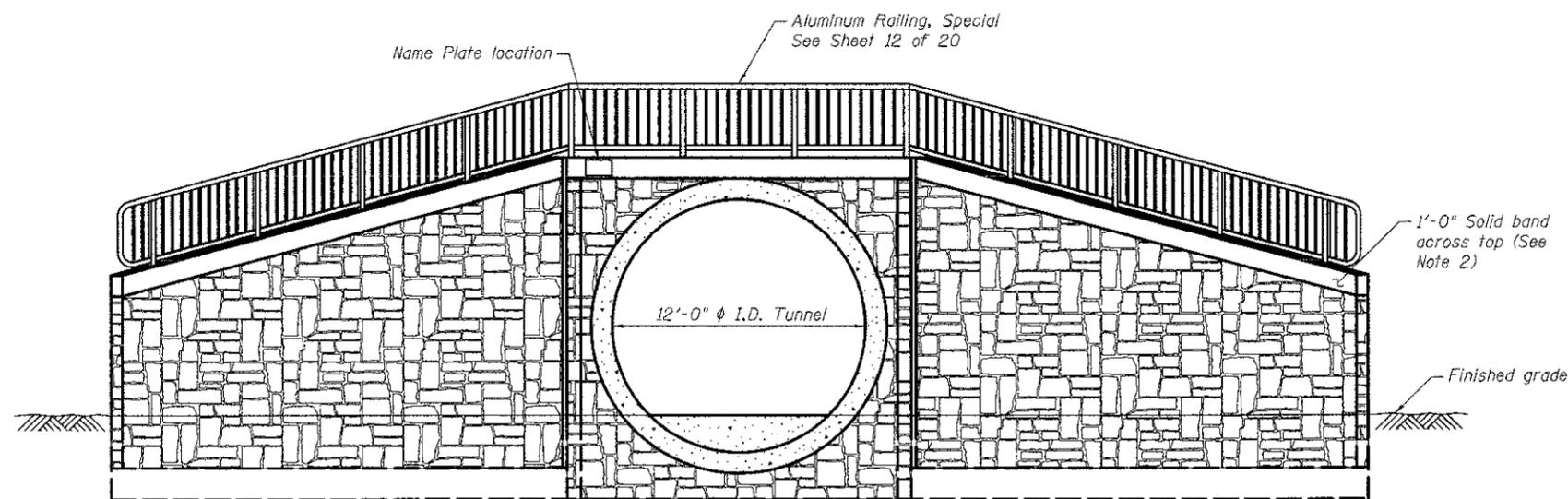
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	CHECKED - AEU	REVISED -

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
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CONTRACT NO. 63667				
FED. ROAD DIST. NO.	ILLINOIS FED. AID PROJECT			



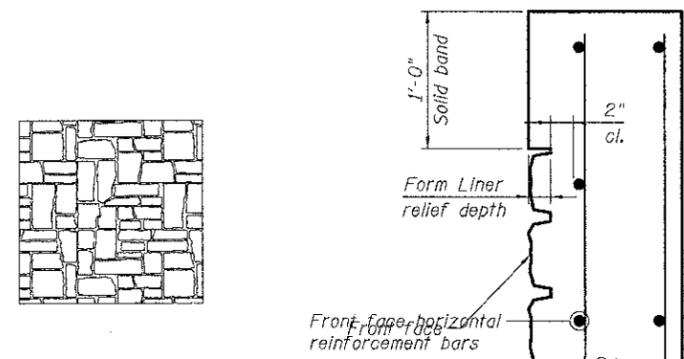
**ELEVATION**

West End Section with 45° Wingwalls



**ELEVATION**

East End Section with 60° Wingwalls



ASHLAR STONE

**SECTION THROUGH HEADWALL/WINGWALL**

**FORM LINER DETAILS**

**BILL OF MATERIAL**

Item	Unit	Total
Form Liner Textured Surface	Sq. Ft.	1,235
Staining Concrete Structures	Sq. Yd.	134
Anti-Graffiti Protection System	Sq. Ft.	1,201

**NOTES**

- The provisions for Staining Concrete Structures, which includes the staining of the form lined texture surface, the exposed ends of tunnel pipe and the solid band across the headwalls and wingwalls, is outlined in the Special Provision "Form Liner Textured Surface."
- The solid band across the top of the headwalls and wingwalls, which includes the top, front and side faces, shall be stained a solid color. See the Special Provision.

FILE NAME = W:\Projects\2012\100091\_SouthSPETI\cadd\Structure\1\_Dgn\Final\100091-03-4-archD.dwg

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 116 West Main Street, Suite 201  
 St. Charles, Illinois 60174  
 (630) 443-7795

USER NAME = rperrett	DESIGNED - DLS	REVISED -
	CHECKED - AEU	REVISED -
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**STATE OF ILLINOIS**  
**DEPARTMENT OF TRANSPORTATION**

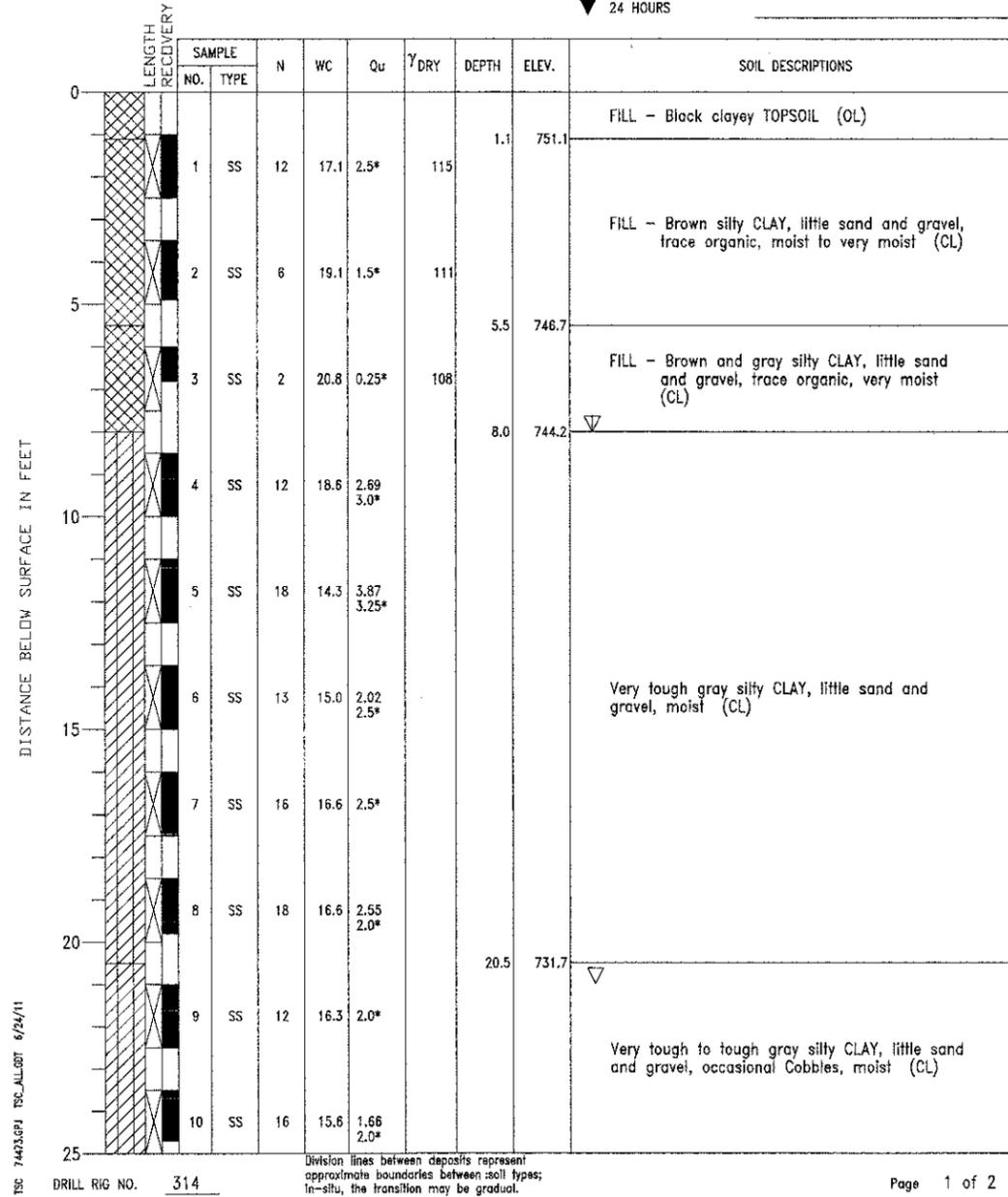
**ARCHITECTURAL DETAILS - TUNNEL END SECTIONS**  
**STRUCTURE NO. 045-3181**  
 SHEET NO. 13 OF 20 SHEETS

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
0336	00-00259-00-BT	KANE	79	41
FED. ROAD DIST. NO.			ILLINOIS FED. AID PROJECT	
CONTRACT NO. 63667				

PROJECT South Street Trail Extension, Geneva, Illinois  
 CLIENT Wills Burke Kelsey Associates, Ltd., St. Charles, Illinois  
 BORING 3 DATE STARTED 1-25-10 DATE COMPLETED 1-25-10 JOB L-74,473

ELEVATIONS  
 GROUND SURFACE 752.2  
 END OF BORING 722.2

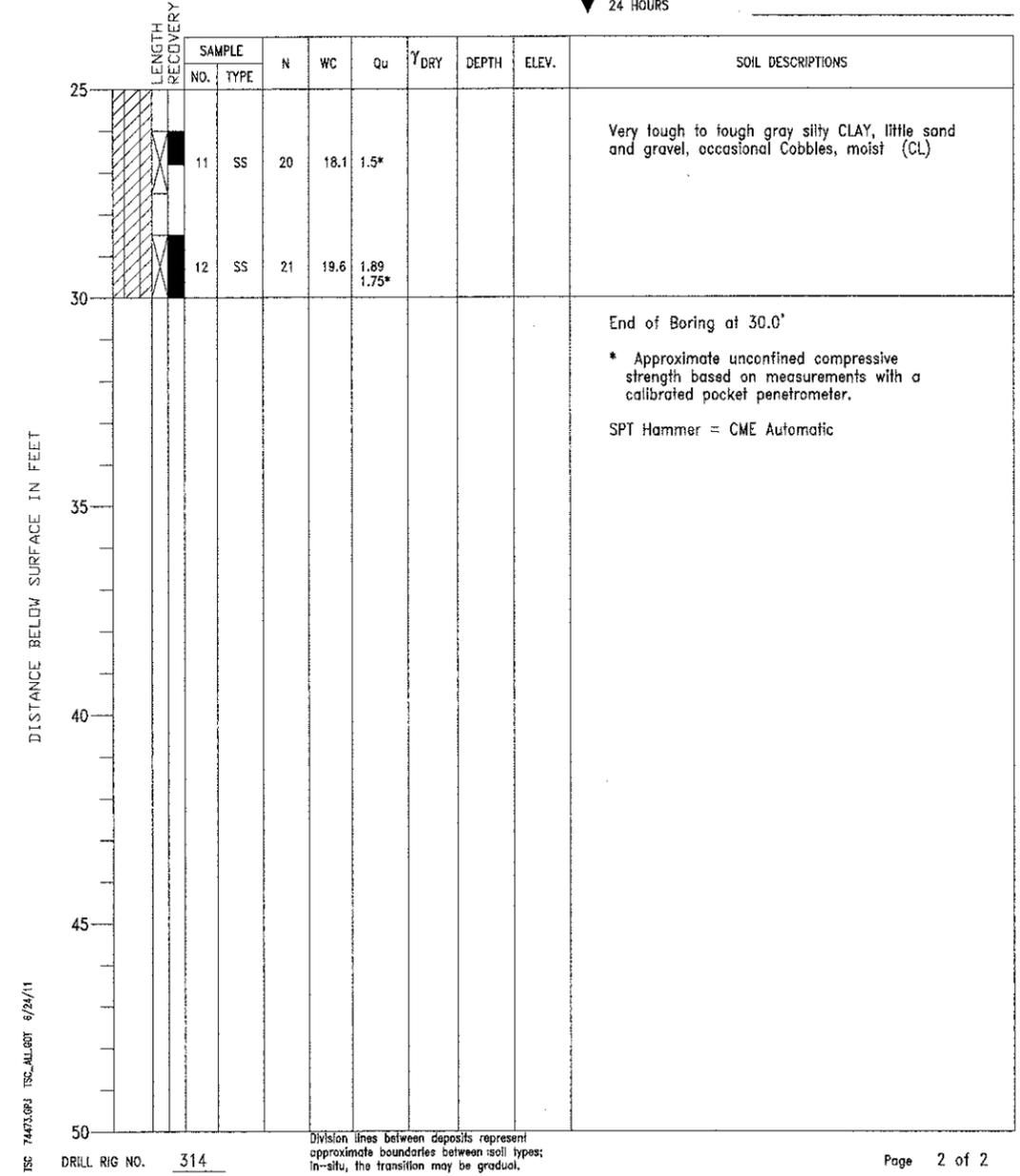
WATER LEVEL OBSERVATIONS  
 WHILE DRILLING 8.0'  
 AT END OF BORING 21.0'  
 24 HOURS



PROJECT South Street Trail Extension, Geneva, Illinois  
 CLIENT Wills Burke Kelsey Associates, Ltd., St. Charles, Illinois  
 BORING 3 DATE STARTED 1-25-10 DATE COMPLETED 1-25-10 JOB L-74,473

ELEVATIONS  
 GROUND SURFACE 752.2  
 END OF BORING 722.2

WATER LEVEL OBSERVATIONS  
 WHILE DRILLING 8.0'  
 AT END OF BORING 21.0'  
 24 HOURS



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PLOT SCALE =	CHECKED -	REVISED -
PLOT DATE = 5/11/2012	DRAWN - DLS	REVISED -
	CHECKED - AEU	REVISED -

STATE OF ILLINOIS  
 DEPARTMENT OF TRANSPORTATION

SOIL BORING LOGS 1  
 STRUCTURE NO. 045-3181  
 SHEET NO. 14 OF 20 SHEETS

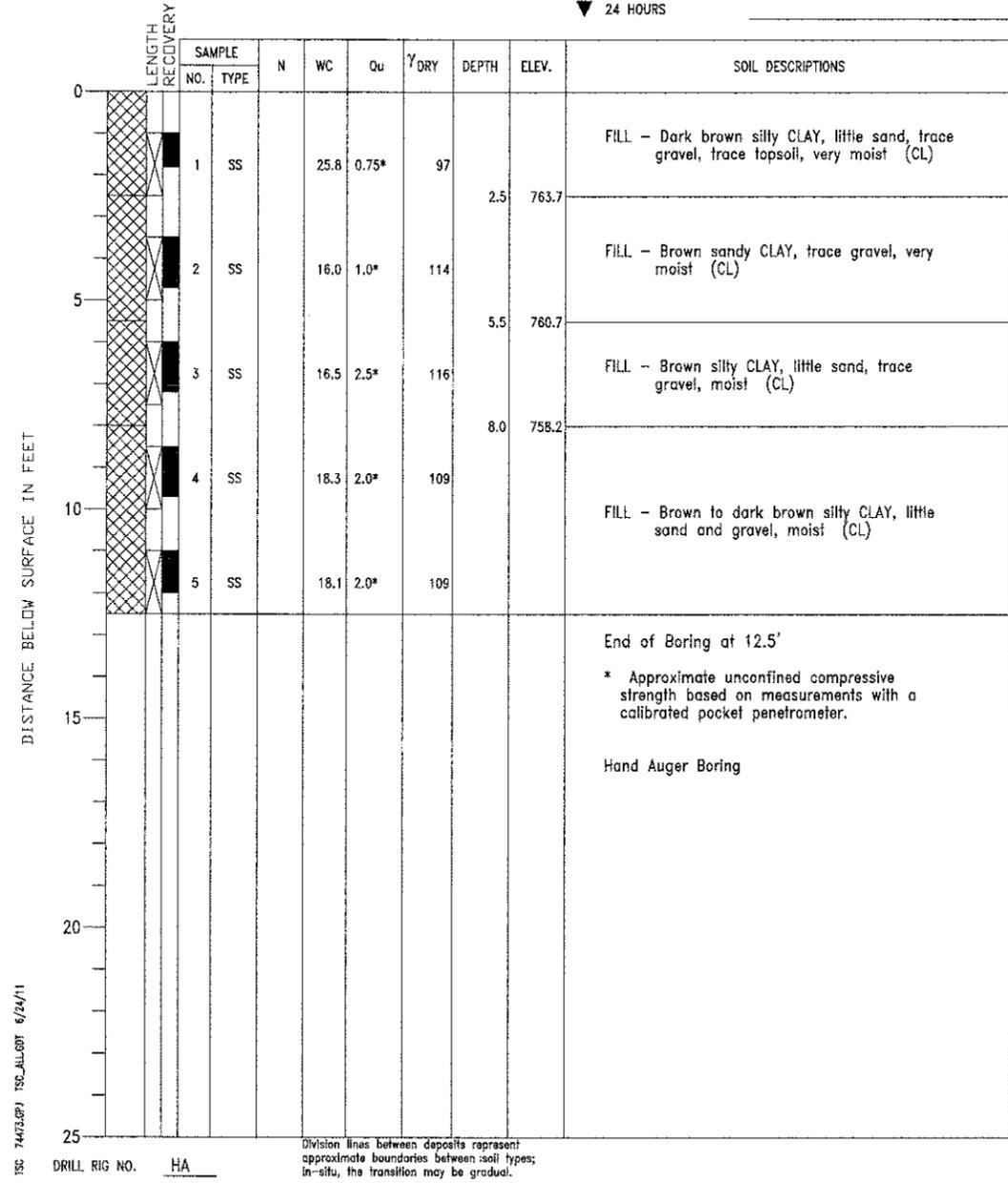
F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
0336	00-00259-00-BT	KANE	79	42
CONTRACT NO. 63667				
FED. ROAD DIST. NO. ILLINOIS FED. AID PROJECT				

PROJECT South Street Trail Extension, Geneva, Illinois  
 CLIENT Wills Burke Kelsey Associates, Ltd., St. Charles, Illinois  
 BORING 101 DATE STARTED 2-11-10 DATE COMPLETED 2-11-10 JOB L-74,473



ELEVATIONS  
 GROUND SURFACE 766.2  
 END OF BORING 753.7

WATER LEVEL OBSERVATIONS  
 ▽ WHILE DRILLING Dry  
 ▽ AT END OF BORING Dry  
 ▽ 24 HOURS



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 St. Charles, Illinois 60174  
 (630) 443-7765

USER NAME = rparms	DESIGNED -	REVISED -
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PLOT DATE = 5/11/2012	DRAWN - DLS	REVISED -
	CHECKED - AEU	REVISED -

**STATE OF ILLINOIS  
 DEPARTMENT OF TRANSPORTATION**

**SOIL BORING LOGS II  
 STRUCTURE NO. 045-3181**

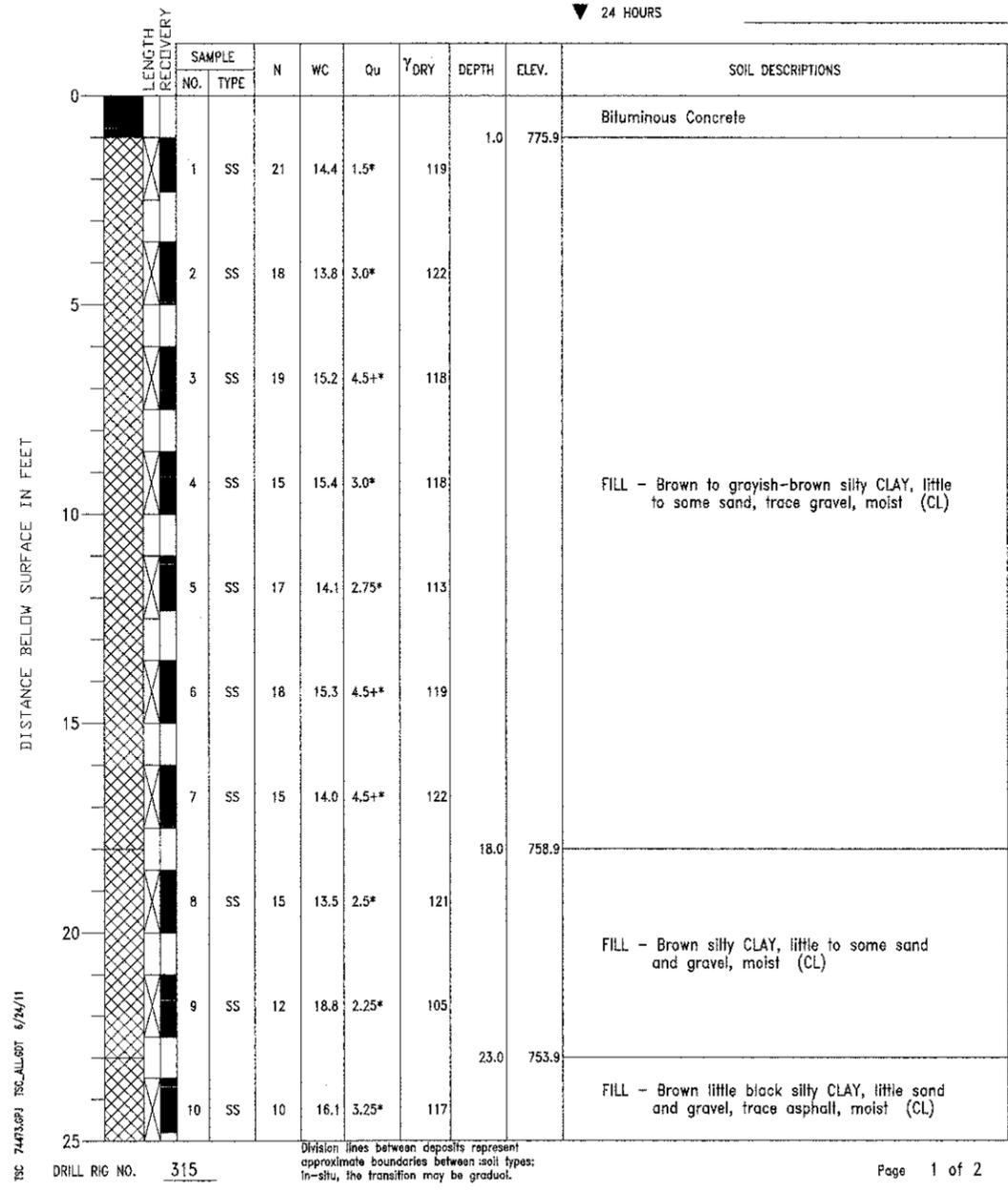
SHEET NO. 15 OF 20 SHEETS

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
0336	00-00259-00-BT	KANE	79	43
CONTRACT NO. 63667				
FED. ROAD DIST. NO. ILLINOIS FED. AID PROJECT				

PROJECT South Street Trail Extension, Geneva, Illinois  
 CLIENT Wills Burke Kelsey Associates, Ltd., St. Charles, Illinois  
 BORING 4 DATE STARTED 2-1-10 DATE COMPLETED 2-1-10 JOB L-74,473

ELEVATIONS  
 GROUND SURFACE 776.9  
 END OF BORING 726.9

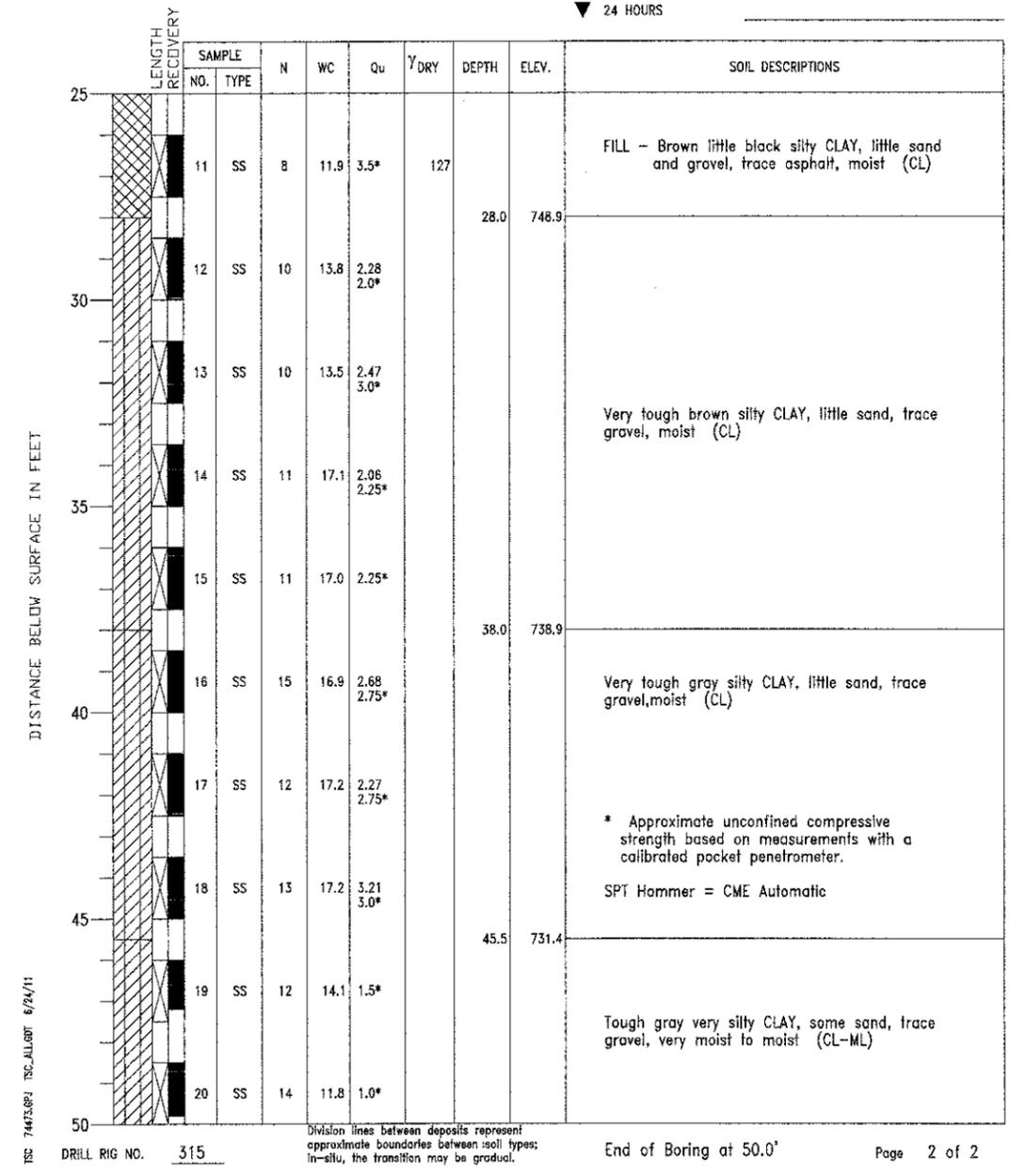
WATER LEVEL OBSERVATIONS  
 WHILE DRILLING Dry  
 AT END OF BORING Dry  
 24 HOURS



PROJECT South Street Trail Extension, Geneva, Illinois  
 CLIENT Wills Burke Kelsey Associates, Ltd., St. Charles, Illinois  
 BORING 4 DATE STARTED 2-1-10 DATE COMPLETED 2-1-10 JOB L-74,473

ELEVATIONS  
 GROUND SURFACE 776.9  
 END OF BORING 726.9

WATER LEVEL OBSERVATIONS  
 WHILE DRILLING Dry  
 AT END OF BORING Dry  
 24 HOURS



I:\Projects\2010\0809\01\_SouthStreetTrailExtension\Structural\Drawings\Boring\_3.dwg  
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 WBK 118 West Main Street, Suite 201  
 St. Charles, Illinois 62454  
 (630) 443-7755

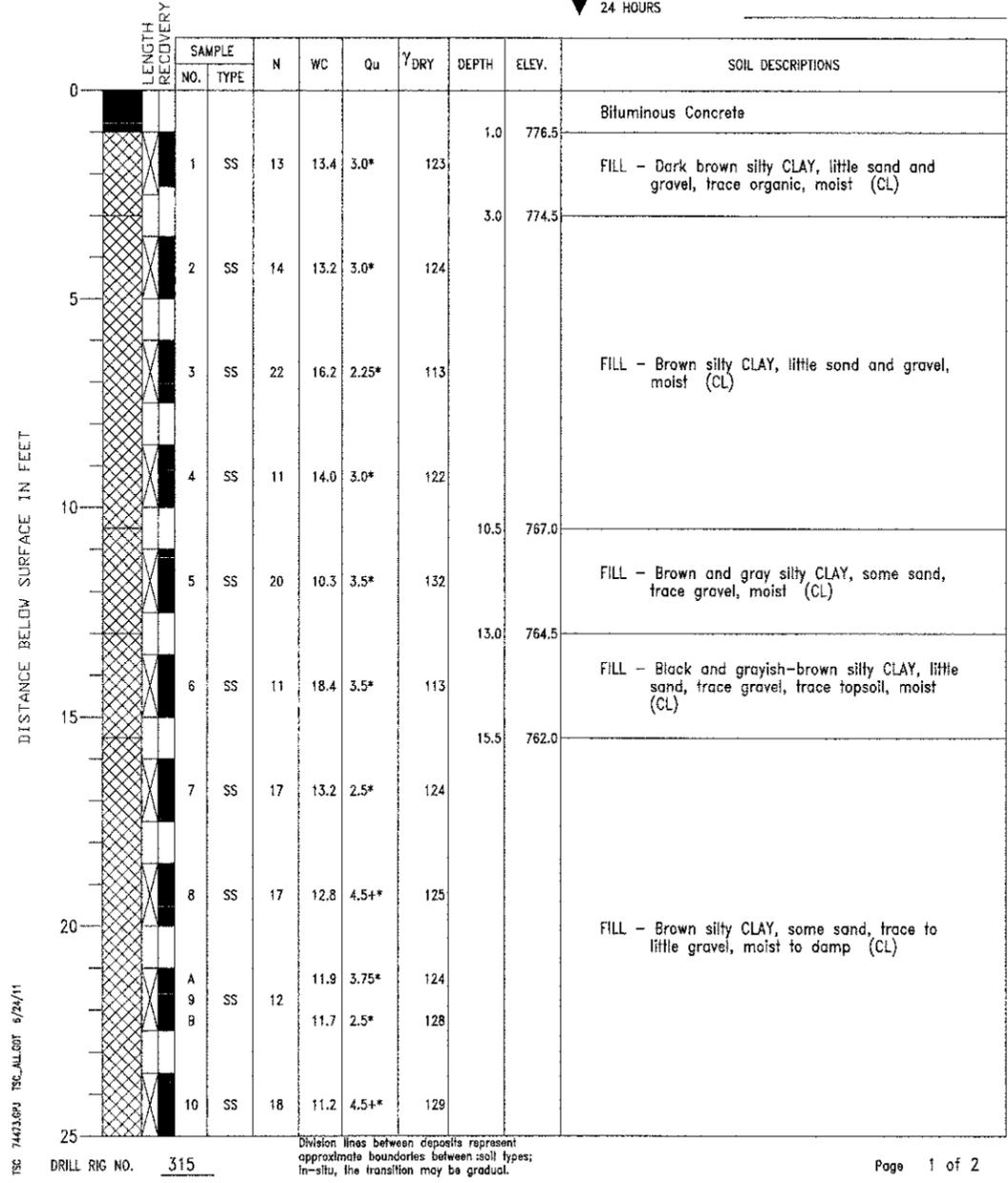
Division lines between deposits represent approximate boundaries between soil types; in-situ, the transition may be gradual. Page 1 of 2

Division lines between deposits represent approximate boundaries between soil types; in-situ, the transition may be gradual. End of Boring at 50.0' Page 2 of 2

PROJECT South Street Trail Extension, Geneva, Illinois  
 CLIENT Wills Burke Kelsey Associates, Ltd., St. Charles, Illinois  
 BORING 5 DATE STARTED 1-27-10 DATE COMPLETED 1-27-10 JOB L-74,473

ELEVATIONS  
 GROUND SURFACE 777.5  
 END OF BORING 727.5

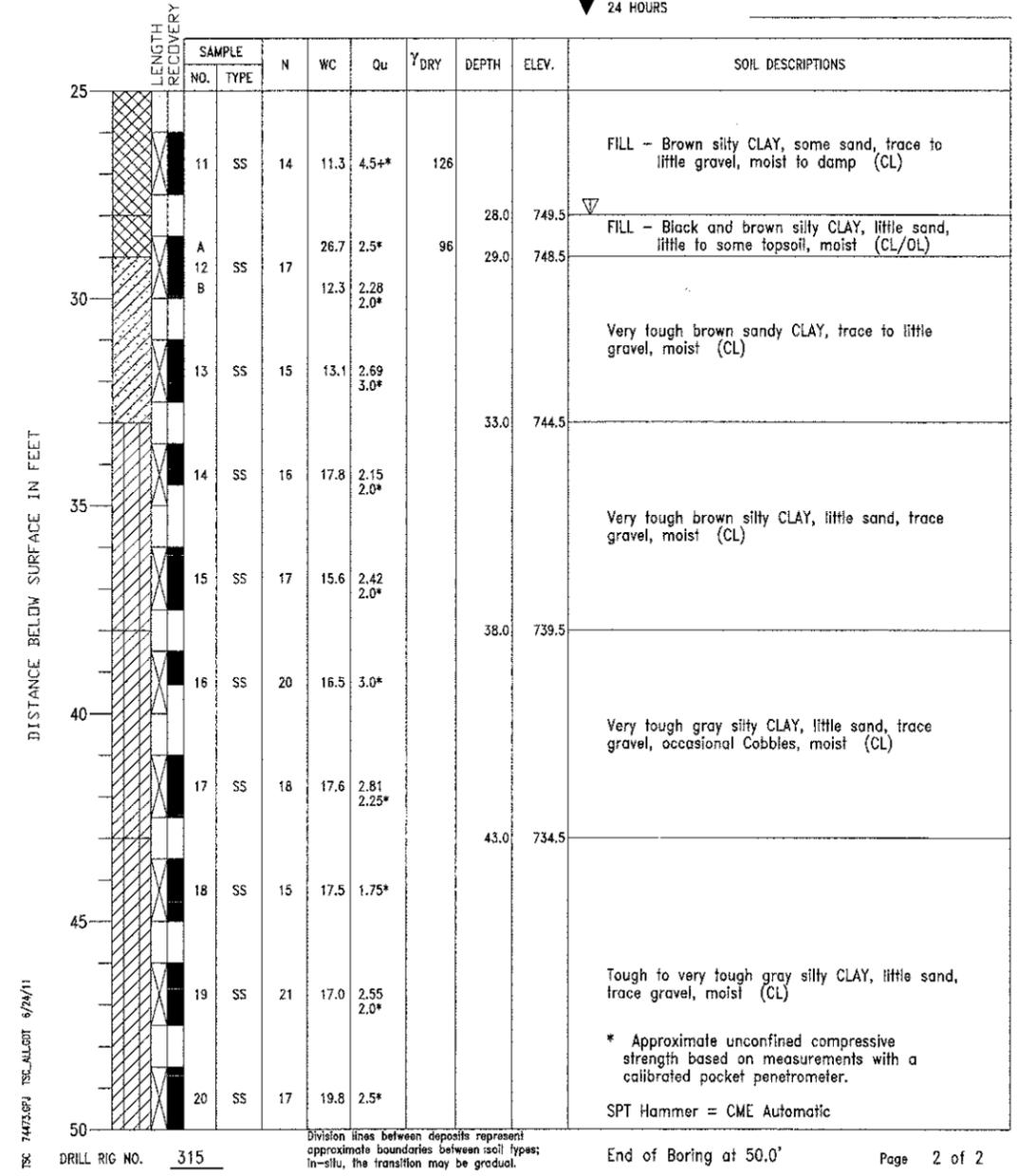
WATER LEVEL OBSERVATIONS  
 WHILE DRILLING 28.0'  
 AT END OF BORING Dry  
 24 HOURS



PROJECT South Street Trail Extension, Geneva, Illinois  
 CLIENT Wills Burke Kelsey Associates, Ltd., St. Charles, Illinois  
 BORING 5 DATE STARTED 1-27-10 DATE COMPLETED 1-27-10 JOB L-74,473

ELEVATIONS  
 GROUND SURFACE 777.5  
 END OF BORING 727.5

WATER LEVEL OBSERVATIONS  
 WHILE DRILLING 28.0'  
 AT END OF BORING Dry  
 24 HOURS



FILE NAME = \\A:\Project\42810\1020\1\SouthStTrail\Structure\1\Drawn\TSC\ALLOTT\6/24/11\TSC\_74473.dwg



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STATE OF ILLINOIS  
 DEPARTMENT OF TRANSPORTATION

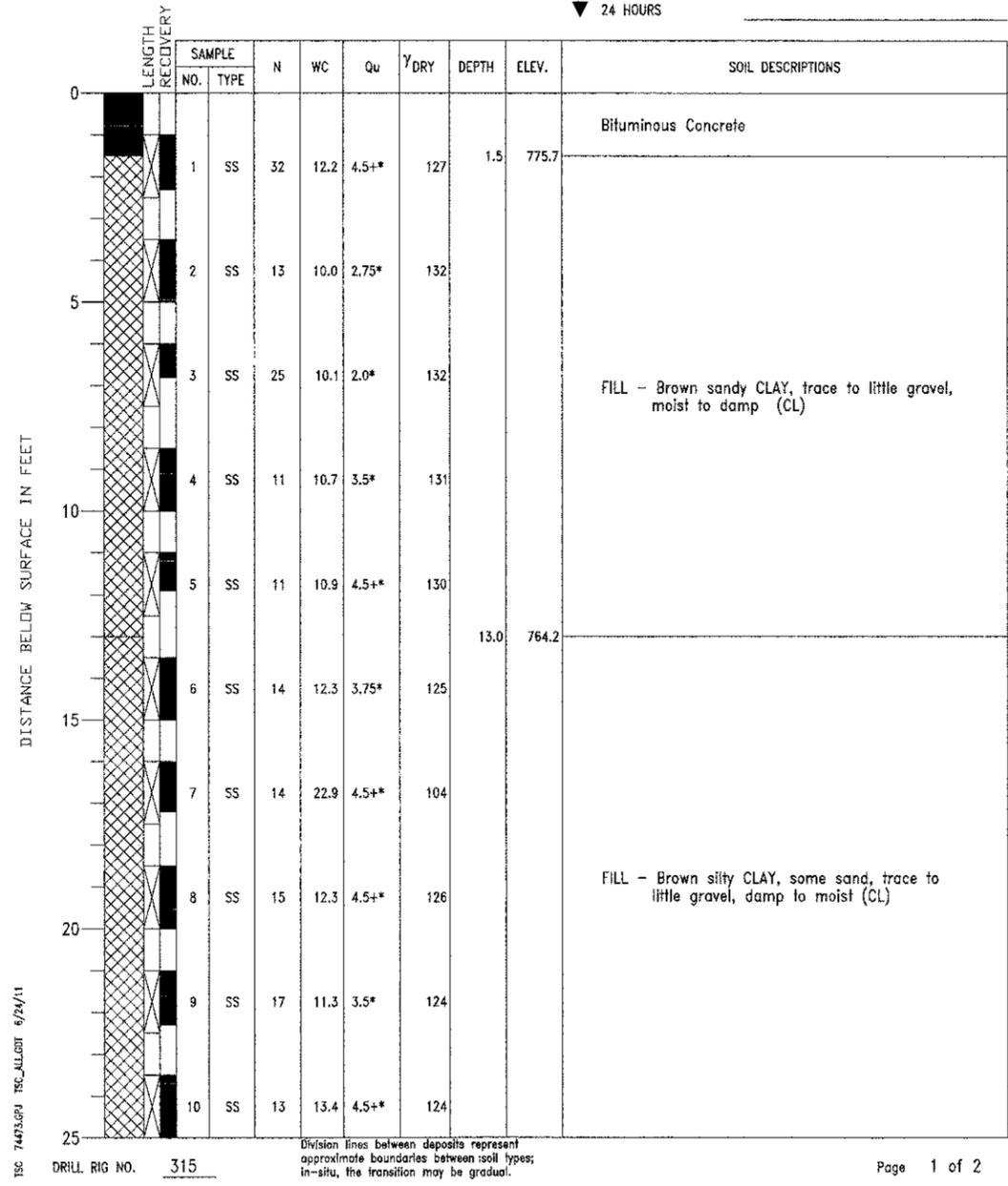
SOIL BORING LOGS IV  
 STRUCTURE NO. 045-3181  
 SHEET NO. 17 OF 20 SHEETS

F.A.P. RTE. 0336	SECTION 00-00259-00-BT	COUNTY KANE	TOTAL SHEETS 79	SHEET NO. 45
CONTRACT NO. 63667				
FED. ROAD DIST. NO. ILLINOIS FED. AID PROJECT				

PROJECT South Street Trail Extension, Geneva, Illinois  
 CLIENT Willis Burke Kelsey Associates, Ltd., St. Charles, Illinois  
 BORING 6 DATE STARTED 1-28-10 DATE COMPLETED 1-28-10 JOB L-74,473

ELEVATIONS  
 GROUND SURFACE 777.2  
 END OF BORING 727.2

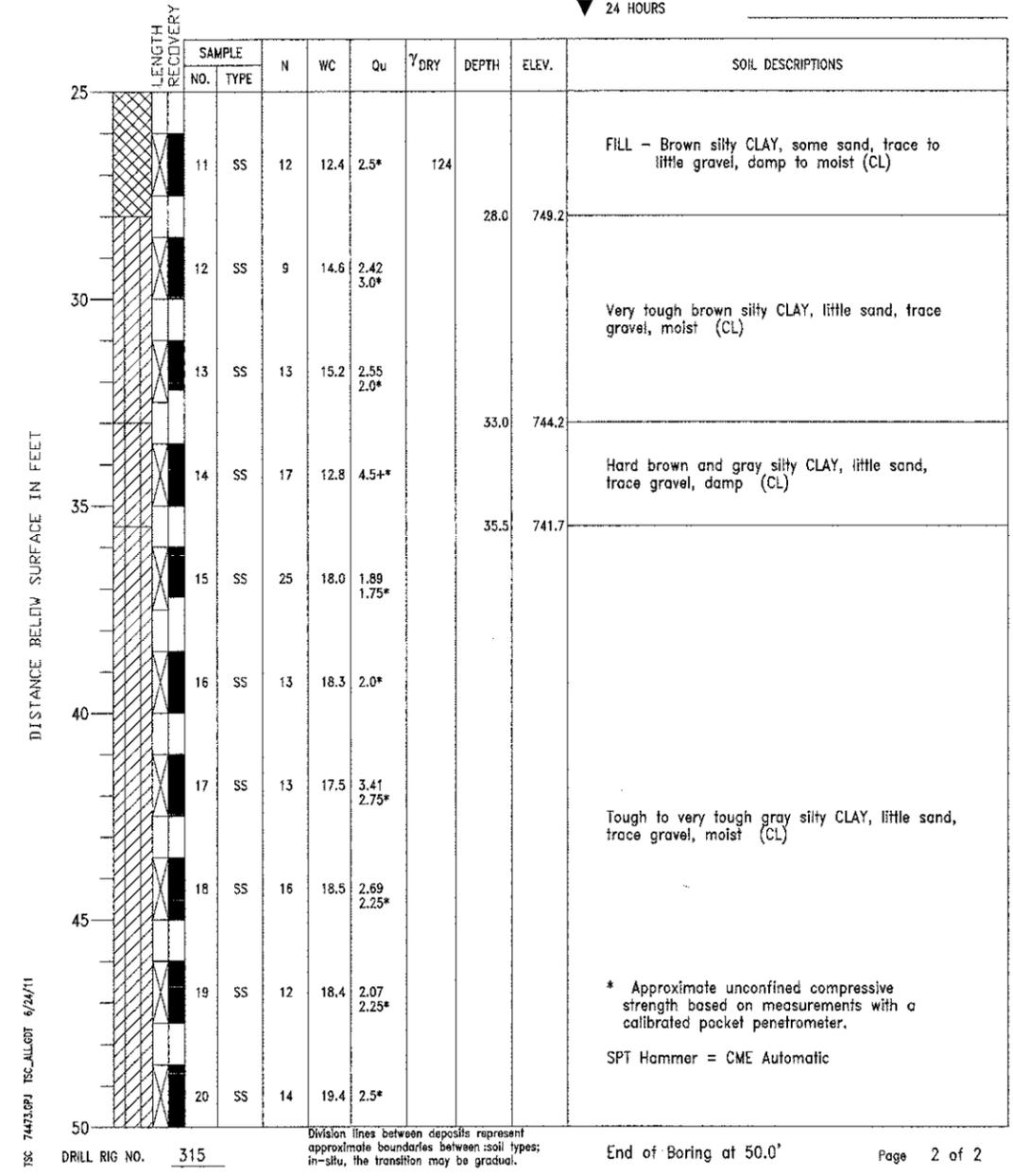
WATER LEVEL OBSERVATIONS  
 WHILE DRILLING Dry  
 AT END OF BORING Dry  
 24 HOURS



PROJECT South Street Trail Extension, Geneva, Illinois  
 CLIENT Willis Burke Kelsey Associates, Ltd., St. Charles, Illinois  
 BORING 6 DATE STARTED 1-28-10 DATE COMPLETED 1-28-10 JOB L-74,473

ELEVATIONS  
 GROUND SURFACE 777.2  
 END OF BORING 727.2

WATER LEVEL OBSERVATIONS  
 WHILE DRILLING Dry  
 AT END OF BORING Dry  
 24 HOURS



FILE NAME: K:\Projects\2010\1980P1\_SouthStreetTrail\Drawings\Structural\03667-01B-SoilBoring\_5.dgn  
 TSC 7473.P1 TSC\_ALLOTT 6/24/11

Division lines between deposits represent approximate boundaries between soil types; in-situ, the transition may be gradual.

Division lines between deposits represent approximate boundaries between soil types; in-situ, the transition may be gradual.



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PLOT SCALE =	CHECKED -	REVISED -
PLOT DATE = 5/11/2012	DRAWN - DLS	REVISED -
	CHECKED - AEU	REVISED -

**STATE OF ILLINOIS  
 DEPARTMENT OF TRANSPORTATION**

**SOIL BORING LOGS V  
 STRUCTURE NO. 045-3181**

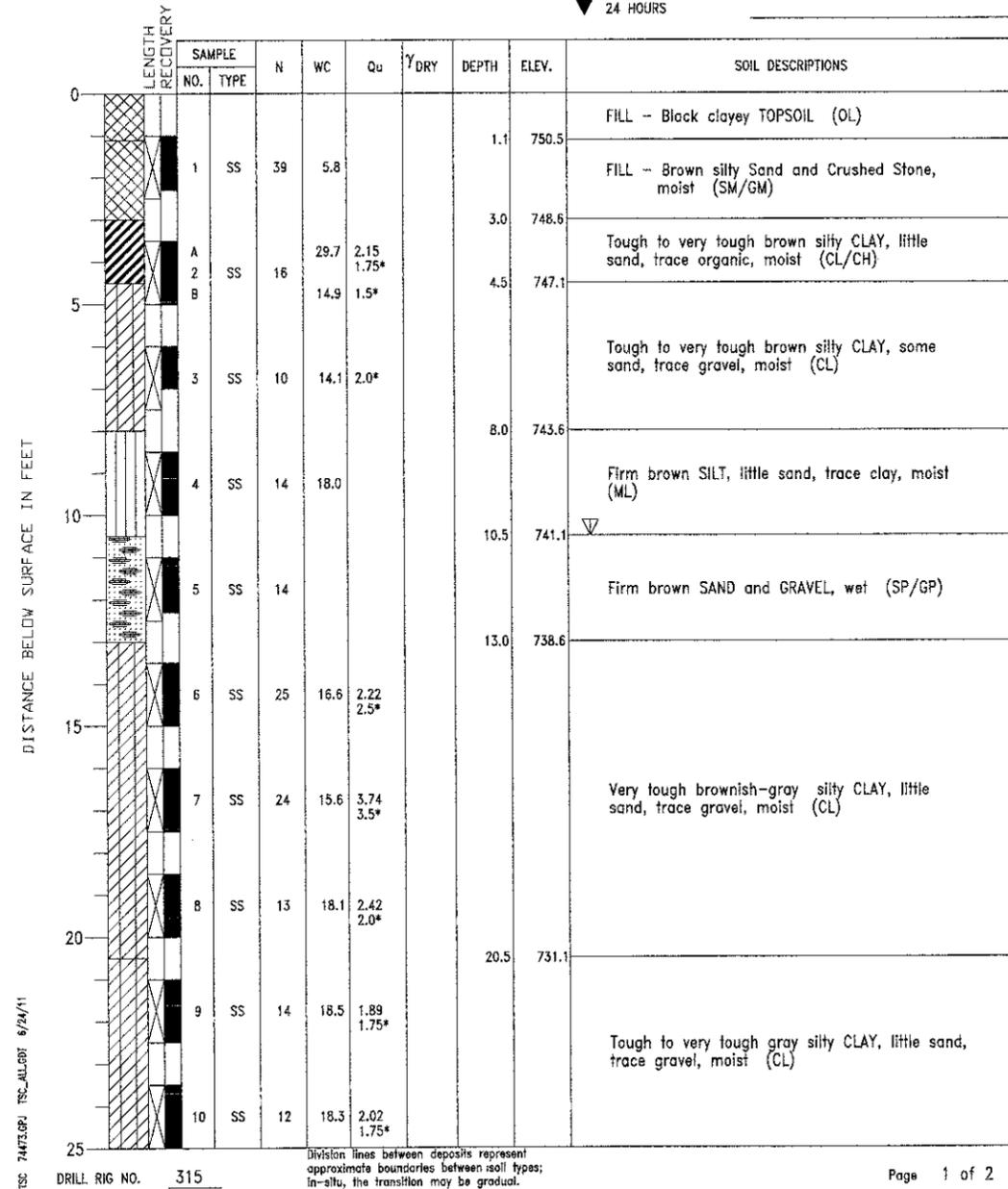
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CONTRACT NO. 63667			FED. ROAD DIST. NO. ILLINOIS FED. AID PROJECT	



PROJECT South Street Trail Extension, Geneva, Illinois  
 CLIENT Wills Burke Kelsey Associates, Ltd., St. Charles, Illinois  
 BORING 7 DATE STARTED 1-20-10 DATE COMPLETED 1-20-10 JOB L-74,473

ELEVATIONS  
 GROUND SURFACE 751.6  
 END OF BORING 721.6

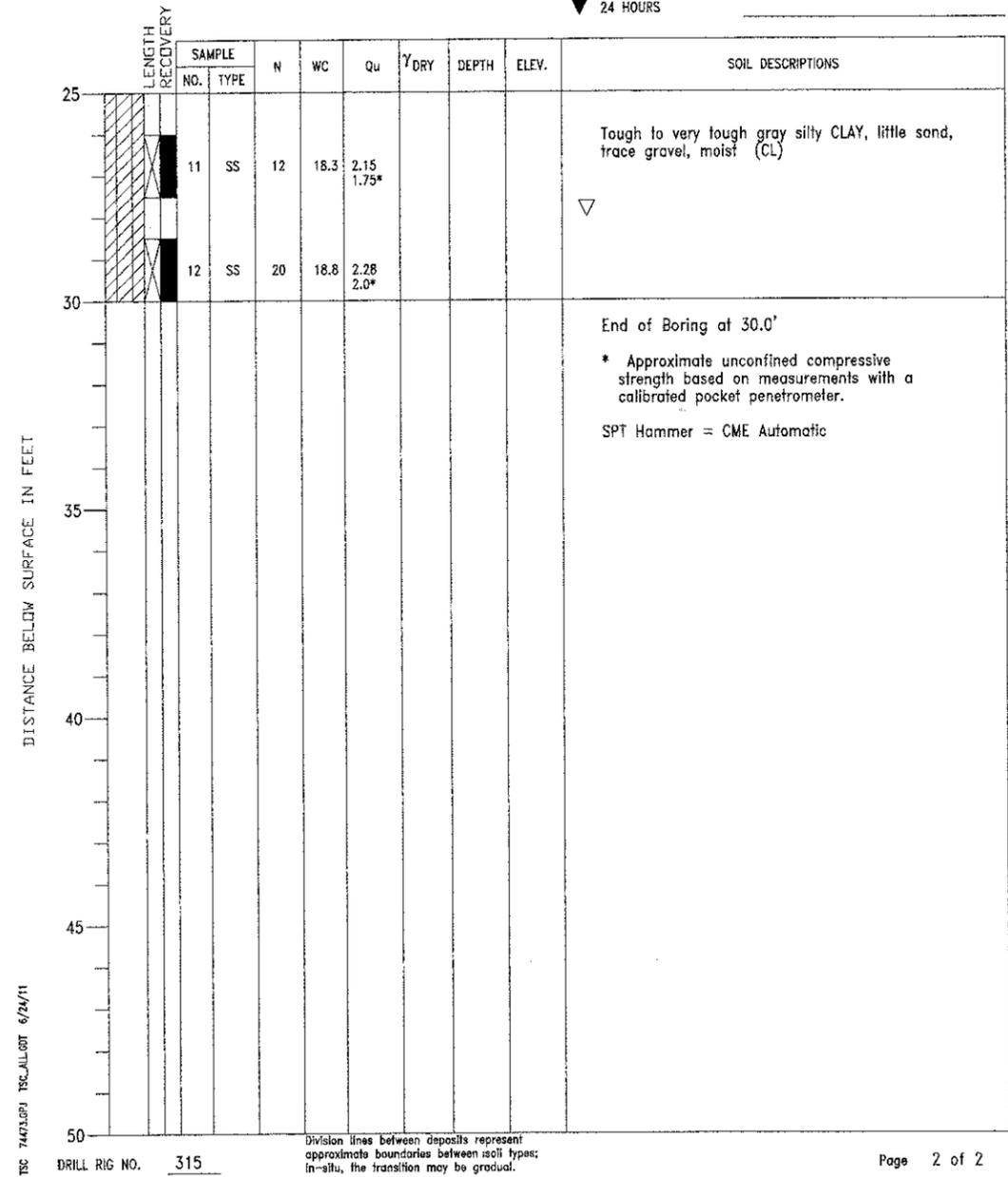
WATER LEVEL OBSERVATIONS  
 ▽ WHILE DRILLING 10.5'  
 ▽ AT END OF BORING 28.0'  
 ▼ 24 HOURS



PROJECT South Street Trail Extension, Geneva, Illinois  
 CLIENT Wills Burke Kelsey Associates, Ltd., St. Charles, Illinois  
 BORING 7 DATE STARTED 1-20-10 DATE COMPLETED 1-20-10 JOB L-74,473

ELEVATIONS  
 GROUND SURFACE 751.6  
 END OF BORING 721.6

WATER LEVEL OBSERVATIONS  
 ▽ WHILE DRILLING 10.5'  
 ▽ AT END OF BORING 28.0'  
 ▼ 24 HOURS



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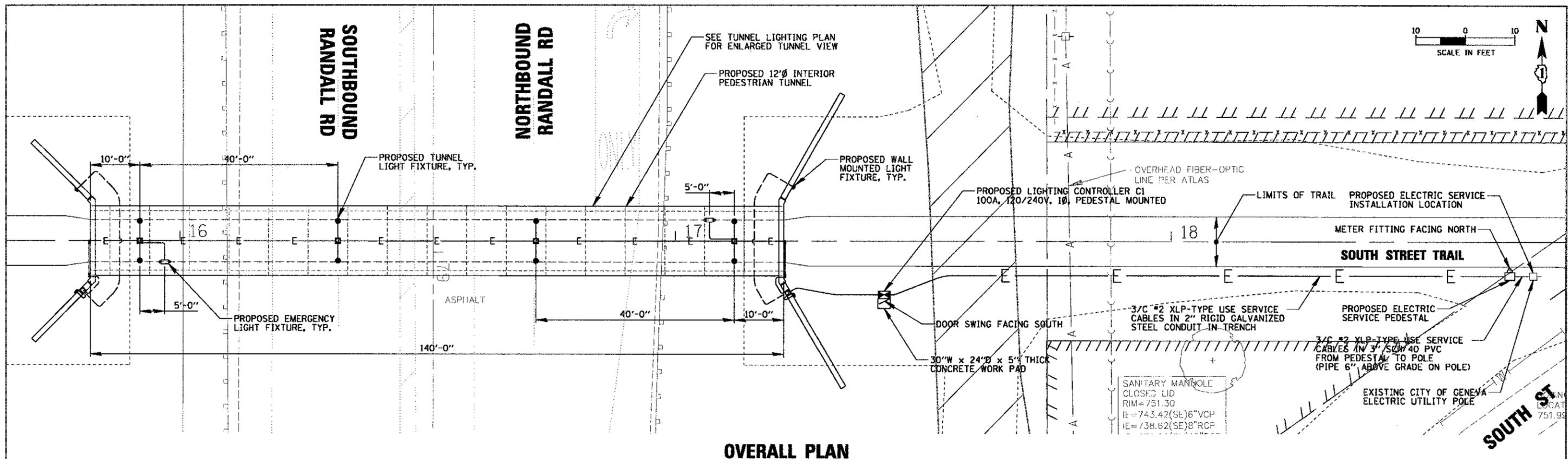
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**STATE OF ILLINOIS  
 DEPARTMENT OF TRANSPORTATION**

**SOIL BORING LOGS VII  
 STRUCTURE NO. 045-3181**

SHEET NO. 20 OF 20 SHEETS

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
0336	00-00259-00-BT	KANE	79	48
CONTRACT NO. 63667				
FED. ROAD DIST. NO.		ILLINOIS FED. AID PROJECT		



**OVERALL PLAN**

**LIGHTING GENERAL NOTES**

1. THE CONTRACTOR SHALL BE SOLELY RESPONSIBLE FOR JOB SITE SAFETY AS WELL AS SUPERVISION/ DIRECTION AND MEANS/METHODS OF CONSTRUCTION.
2. CONDUIT ATTACHED TO STRUCTURE AND ELECTRIC SERVICE CONDUIT SHALL BE RIGID GALVANIZED STEEL. UNDERGROUND CONDUIT SHALL BE SCHEDULE 40 PVC. WIRING SHALL BE XLP-TYPE USE.
3. ALL WORK SHALL BE IN ACCORDANCE WITH THE FOLLOWING SPECIFICATIONS, WHICH ARE HEREBY MADE A PART HEREOF:
  - A. "STANDARD SPECIFICATIONS FOR ROAD AND BRIDGE CONSTRUCTION IN ILLINOIS", 2012 EDITION, AS PREPARED BY IDOT.
  - B. "THE NATIONAL ELECTRICAL CODE", 2011 EDITION.
  - C. MUNICIPAL CODES & STANDARDS, LATEST EDITION.
4. NO MATERIALS SHALL BE DELIVERED TO THE JOB SITE UNTIL ALL PERTINENT EQUIPMENT SUBMITTALS HAVE BEEN REVIEWED BY THE OWNER'S REPRESENTATIVE.
5. THE EXACT LOCATIONS OF ALL UTILITIES SHALL BE VERIFIED BY THE CONTRACTOR BEFORE THE INSTALLATION OF ANY COMPONENTS OF THE LIGHTING SYSTEM. FOR THE LOCATIONS OF THE UTILITIES, CALL JULIE TOLL FREE AT 1-800-892-0123.
6. IT SHALL BE THE CONTRACTOR'S RESPONSIBILITY TO MARK THE PROPOSED LOCATIONS OF ALL EQUIPMENT FOR EXAMINATION AND CONFIRMATION WITH THE OWNER'S REPRESENTATIVE. ALL UTILITIES SHALL BE LOCATED PRIOR TO MARKING PROPOSED LOCATIONS.
7. IT IS THE CONTRACTOR'S RESPONSIBILITY FOR TIMELY NOTIFICATION AND COORDINATION WITH THE ELECTRICAL UTILITY COMPANY FOR SERVICE TO THE PROPOSED LIGHTING SYSTEM(S).
8. THE CONTRACTOR SHALL LABEL ALL WIRES WITH WIRE MARKERS INDICATING THE CIRCUIT ID IN EVERY CONTROLLER, FIXTURE, JUNCTION BOX, AND SPLICE/CONNECTION POINT. WIRE MARKERS SHALL BE MECHANICALLY FASTENED WHITE PLASTIC, TYPE "PLM" AS MANUFACTURED BY PANDUIT OR APPROVED EQUAL.
9. EQUIPMENT GROUND CONDUCTORS SHALL BE SPLICED AND BONDED AT EACH JUNCTION BOX AND FIXTURE.
10. THE LIGHTING CONTROLLER TOGETHER WITH ALL OF ITS COMPONENTS SHALL BE UL LISTED AS AN "INDUSTRIAL CONTROL PANEL" UNDER UL508A.
11. THE ELECTRICAL CONTRACTOR SHALL FURNISH TWO SETS OF FULL SIZE RECORD DRAWINGS TO THE OWNER'S REPRESENTATIVE UPON COMPLETION OF THE LIGHTING AND ELECTRICAL IMPROVEMENTS. THE DRAWINGS SHALL SHOW THE INSTALLED LOCATIONS OF ALL LIGHTS, UNDERGROUND CONDUITS/ WIRING, HANDHOLES, JUNCTION BOXES & CONTROLLER CABINETS. THE DRAWINGS WILL BE REVIEWED BY THE ENGINEER.
12. THE CONTRACTOR SHALL PERFORM ELECTRICAL TESTING AND VERIFY THAT THE INSTALLTION COMPLIES WITH THE LATEST EDITION OF THE STANDARD SPECIFICATIONS FOR ROAD AND BRIDGE CONSTRUCTION IN ILLINOIS.
13. ANY CONCRETE WALL CORING FOR CONDUIT SHALL BE INCLUDED IN THE COST FOR CONDUIT.

**LEGEND**

- PROPOSED 50W LED WALL MOUNTED TYPE LUMINAIRE (REFER TO LIGHT STANDARD DETAIL FOR MODEL INFORMATION)
- PROPOSED EMERGENCY LIGHT
- ⊞ PROPOSED LIGHTING CONTROLLER, 100A, 120/240V, 1Ø
- ⊞ PROPOSED JUNCTION BOX, EMBEDDED OR ATTACHED TO STRUCTURE (SEE PLAN FOR DETAILS)
- E— PROPOSED RGS CONDUIT
- PROPOSED SCH 40 PVC CONDUIT
- 113-CKT A  
STA. 23+95L
- EXISTING SANITARY SEWER
- EXISTING STORM SEWER
- EXISTING WATERMAIN
- EXISTING GAS LINE
- EXISTING OVERHEAD WIRES
- EXISTING PETROLEUM PIPELINE
- RGS RIGID GALVANIZED STEEL
- ATS ATTACHED TO STRUCTURE
- JB JUNCTION BOX

**CITY OF GENEVA - LIGHTING REQUIREMENT**

1. ELECTRICAL NOTE:  
A LAMINATE COPY OF THE ONE LINE CIRCUIT DIAGRAM SHALL BE PLACED IN THE PEDESTRIAN TUNNEL LIGHTING CABINET. THE COST OF PROVIDING LAMINATE COPY SHALL NOT BE PAID FOR BUT SHALL BE INCLUDED IN THE COST OF LIGHTING WORK.

FILE NAME: M:\Projects\2012\0512\SouthStPEI\Lead\Civil\Sheet\LD1.dwg

**CB**  
CHRISTOPHER B. BURKE ENGINEERING, LTD.  
9578 W. Higgins Road, Suite 900  
Rosemont, Illinois 60018  
(847) 823-0500

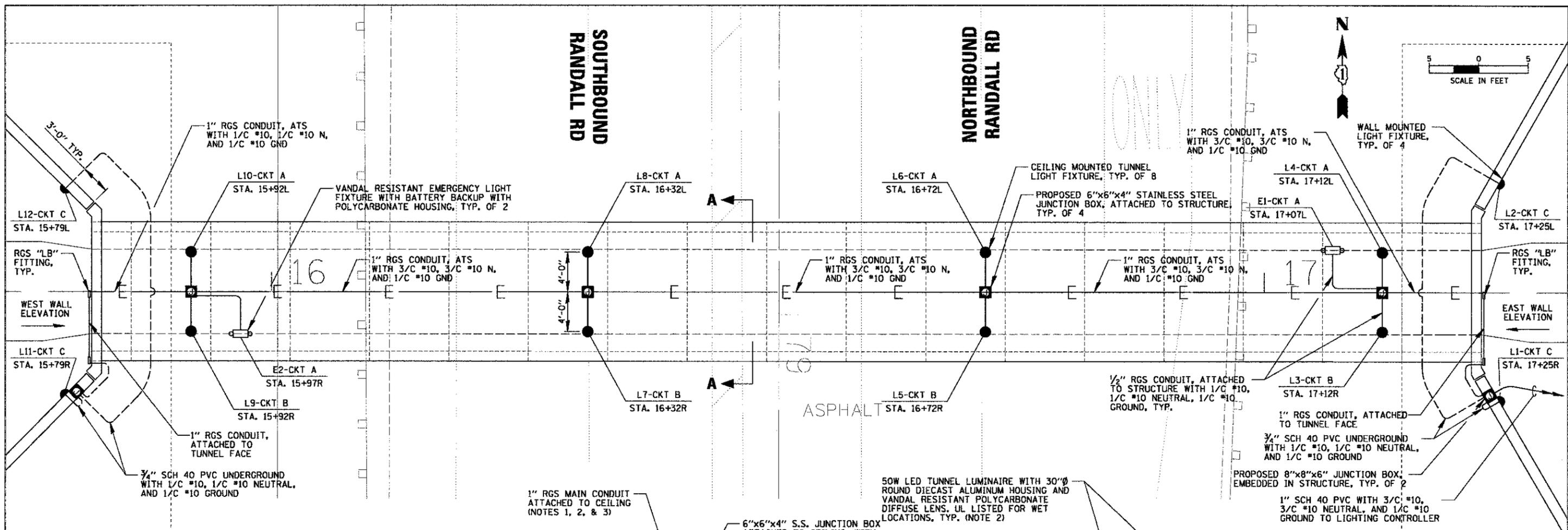
**WBK**  
WILLS BURKE KELSEY ASSOCIATES LTD.  
116 West Main Street, Suite 201  
St. Charles, Illinois 60114

USER NAME = rnparriss	DESIGNED - AJD	REVISED -
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PLOT DATE = 5/18/2012	CHECKED - AJD	REVISED -
	DATE - 5/14/12	REVISED -

**STATE OF ILLINOIS  
DEPARTMENT OF TRANSPORTATION**

<b>TUNNEL LIGHTING</b>	
<b>OVERALL PLAN AND GENERAL NOTES</b>	
SCALE:	SHEET NO. 49 OF 79 SHEETS STA. TO STA.

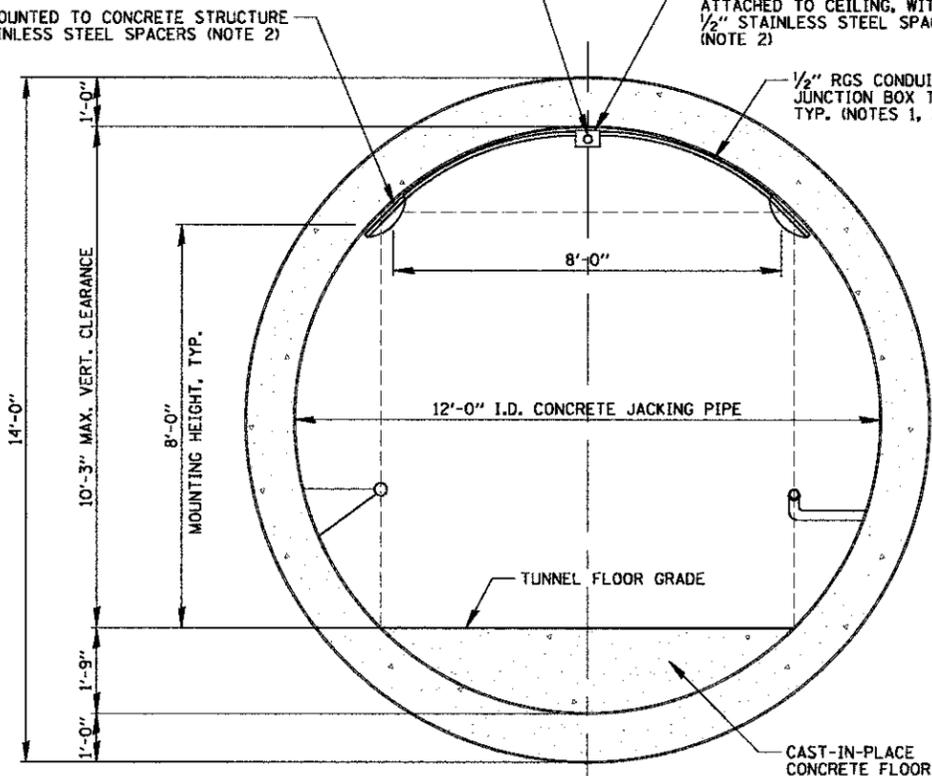
F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
0336	00-00259-00-BT	KANE	79	49
CONTRACT NO. 63667				
FED. ROAD DIST. NO. ILLINOIS FED. AID PROJECT				



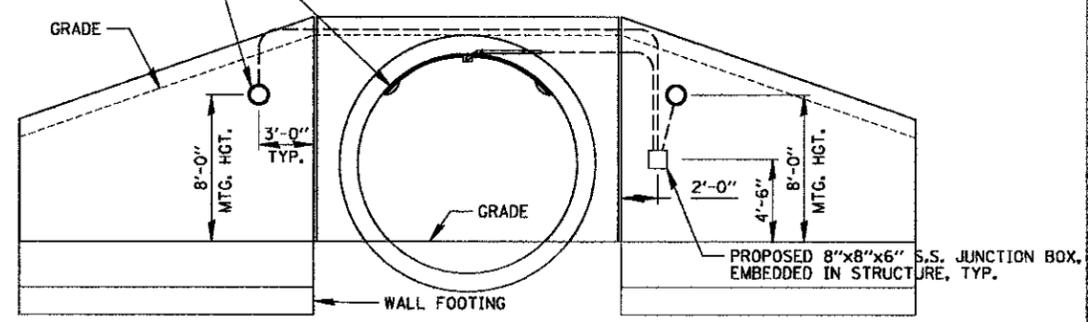
- NOTES:
1. SECURE THE CONDUITS (ATTACHED TO STRUCTURE) WITH GALVANIZED STEEL CONDUIT CLAMPS (AND CLAMP BACKS) AT 5'-0" INTERVALS FOR LATERALS AND WITHIN 2'-0" MAXIMUM FROM ANY JUNCTION BOX, FLEXIBLE CONDUIT, OR CHANGE IN DIRECTION.
  2. ALL CONDUITS, BOXES, AND FIXTURES SHALL BE FASTENED WITH EXPANSION TYPE ANCHORS, POWDER ACTUATED FASTENERS WILL NOT BE ALLOWED. EXPANSION ANCHOR MUST BE SIZED IN ACCORDANCE WITH MANUFACTURERS REQUIREMENTS.
  3. EXPANSION COUPLING SHALL BE PROVIDED AND INSTALLED WHERE REQUIRED, AND SHALL BE INCIDENTAL TO CONDUIT.

**LUMINAIRE SCHEDULE**

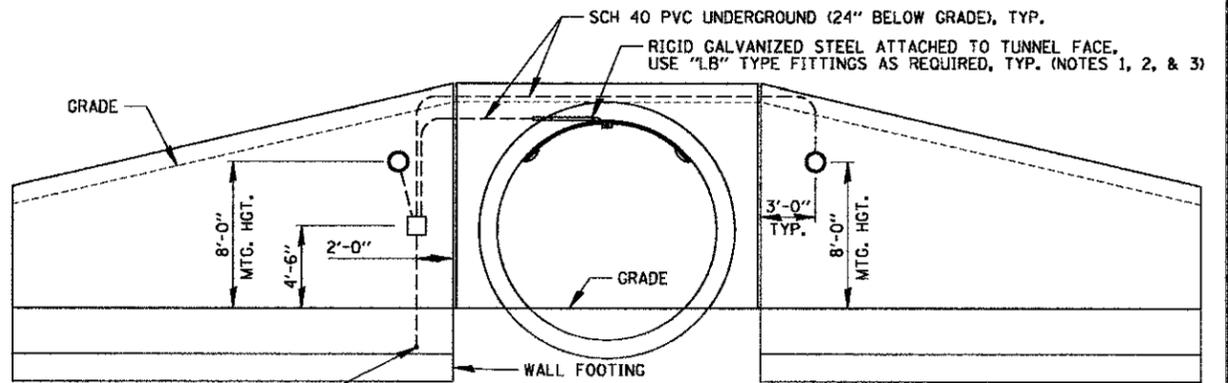
TYPE	MANUFACTURER	MODEL #
TUNNEL	A	LITHONIA VGRIC-50LED41-MVOLT-DBLB-LP1
	B	KENALL MR13FD-PP-MB-50L57K-DV
EMERGENCY	A	LITHONIA INDX1236-W-H1212-UL-T
	B	COOPER UEL1-WH-SD-TDM



**SECTION A-A**  
N.T.S.



**WEST WALL ELEVATION**  
N.T.S.



**EAST WALL ELEVATION**  
N.T.S.

STATE OF ILLINOIS  
DEPARTMENT OF TRANSPORTATION

TUNNEL LIGHTING  
PLAN AND ELEVATIONS

F.A.P. RTE. 0336	SECTION 00-00259-00-BT	COUNTY KANE	TOTAL SHEETS 79	SHEET NO. 50
CONTRACT NO. 63667				

FILE NAME: M:\Projects\2010\1001091\_SouthSubP&T\Road\Civil\Drawings\LOT\_02.dgn

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110 West Main Street, Suite 201  
St. Charles, Illinois 60174

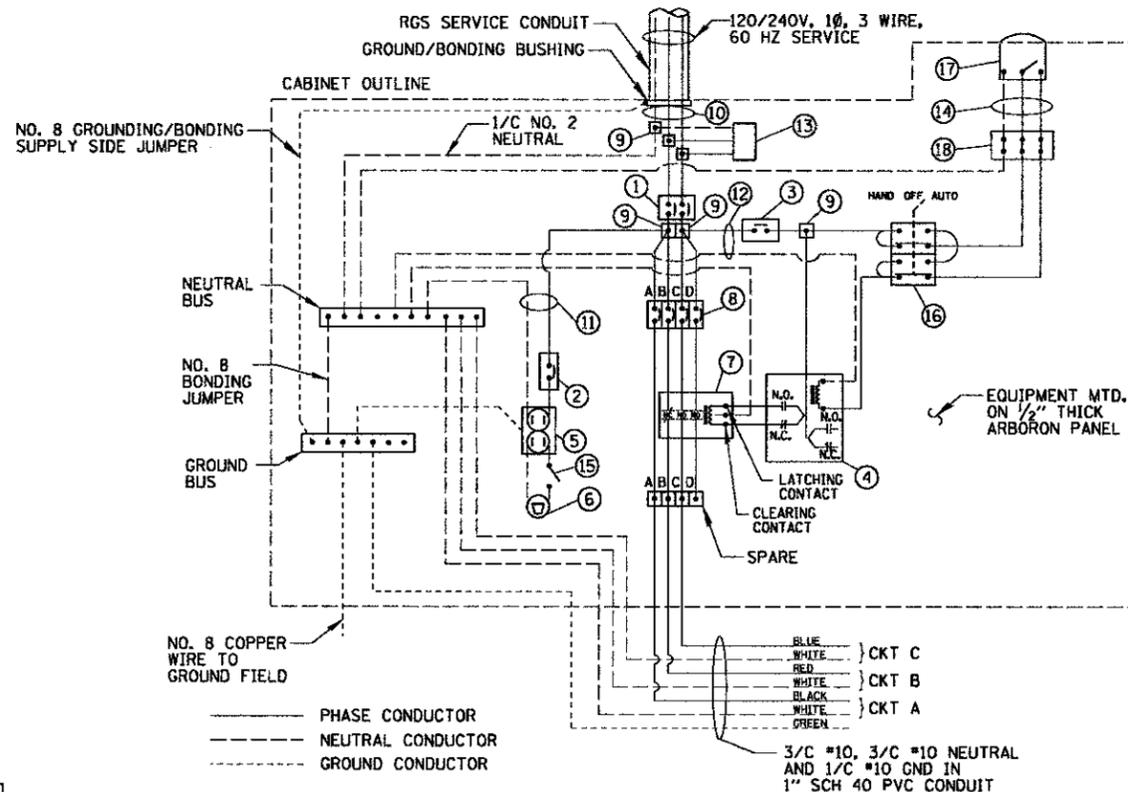
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PLOT DATE = 5/18/2012	CHECKED - AJD	REVISED -
	DATE - 5/14/12	REVISED -

SCALE: SHEET NO. 50 OF 79 SHEETS STA. TO STA.

ITEM	SPECIFICATION	MFG./MODEL NO. OR APPROVED EQUAL
① MAIN CIRCUIT BREAKER	100 AMPERE, 2P, 240V SERVICE RATING, 10KAIC	SIEMENS NO. ED22B100
② LAMPHOLDER CIRCUIT BREAKER	20 AMPERE, 1P, 120V RATING, 10KAIC	SIEMENS NO. ED21B020
③ PHOTOELECTRIC/CONTROL CIRCUIT BREAKER	15 AMPERE, 1P, 120V RATING, 10KAIC	SIEMENS NO. ED21B015
④ AUXILIARY RELAY	120 V OPERATED DPDT 60 HZ COIL 2 NO & 2 NC CONTACTS	MAGNECRAFT NO. 389 FXBC1 - 120A
⑤ CABINET RECEPTACLE AND BOX	COMMERCIAL GRADE GFCI 20A/120V, MOUNTED IN A WEATHERPROOF CAST ALUMINUM SINGLE GANG BOX WITH WEATHERPROOF COVER	RECEPTACLE: LEVITON NO. 8899, BOX: APPLETON NO. WSM150 COVER: APPLETON NO. WHG1
⑥ CABINET LIGHT AND BOX	120V WEATHERPROOF LAMPHOLDER MOUNTED IN A CAST ALUMINUM BOX & EXT. GRADE 100W LAMP	LIGHT & BOX: RAB NO. VX100DG
⑦ CONTACTOR	30 AMPERE, 3 POLE, 120 V COIL, MECH HELD W/ 2 N.O. & 1 N.C. CONTACTS	SQUARE D NO. 8903 LX021 V02
⑧ BRANCH LINE CIRCUIT BREAKERS	4 - 20 AMPERE, 1P, 120V RATING, 10KAIC	SIEMENS NO. ED21B020
⑨ POWER DISTRIBUTION BLOCK	600 VOLT, INSULATED, SIZE AS REQUIRED	MARATHON
⑩ SERVICE CABLES	3-600V (XLP-TYPE USE) NO. 2	N/A
⑪ LAMPHOLDER WIRE	2-600V XLP NO. 12	N/A
⑫ CONTROL WIRE	2-600V XLP NO. 12	N/A
⑬ SURGE ARRESTOR	10 K AMPERE RATING	SQUARE D NO. SDSA 1175
⑭ PHOTOELECTRIC CONTROL WIRE	3-600V XLP NO. 12	N/A
⑮ DOOR SWITCH	20A/120V, DOOR MOUNTED SNAP ACTION TYPE PLUNGER SWITCH	OMRON NO. A-20G0-K
⑯ HAND-AUTO-OFF CONTROL SWITCH	20A, 3 POS. MTD IN CAST ALUM. ENCLOSURE	SQUARE D NO. 9001 KYK 111
⑰ PHOTOCELL	120V, MTD. ON CABINET, DELAY TYPE, SPST-NC	FISHER PIERCE NO. FPFA-105M
⑱ TERMINAL BLOCK	3 TERMINAL, DOUBLE ROW, 30A, 240V	CINCH NO. 3-142

- NOTES:**
- ALL ITEMS LISTED IN LIGHTING CONTROLLER COMPONENT SCHEDULE SHALL BE CONSIDERED INCIDENTAL TO THE PRICE BID FOR "LIGHTING CONTROLLER" INCLUDING CABINET AND FOUNDATION.
  - THE LIGHTING CONTROLLER TOGETHER WITH ALL OF ITS COMPONENTS SHALL BE UL LISTED AS AN "ENCLOSED INDUSTRIAL CONTROL PANEL" UNDER UL508A.
  - CONNECTION OF SURGE ARRESTOR TO LINE SIDE OF MAIN CIRCUIT BREAKER SHALL NOT BE "DOUBLE LUGGED."
  - CONTRACTOR SHALL PROVIDE 3 LAMINATED COPIES OF AS-BUILT CONTROLLER WIRING DIAGRAM AND ONE LINE DIAGRAM IN HOLDER MOUNTED TO INSIDE OF CABINET DOOR.

### LIGHTING CONTROLLER COMPONENT SCHEDULE



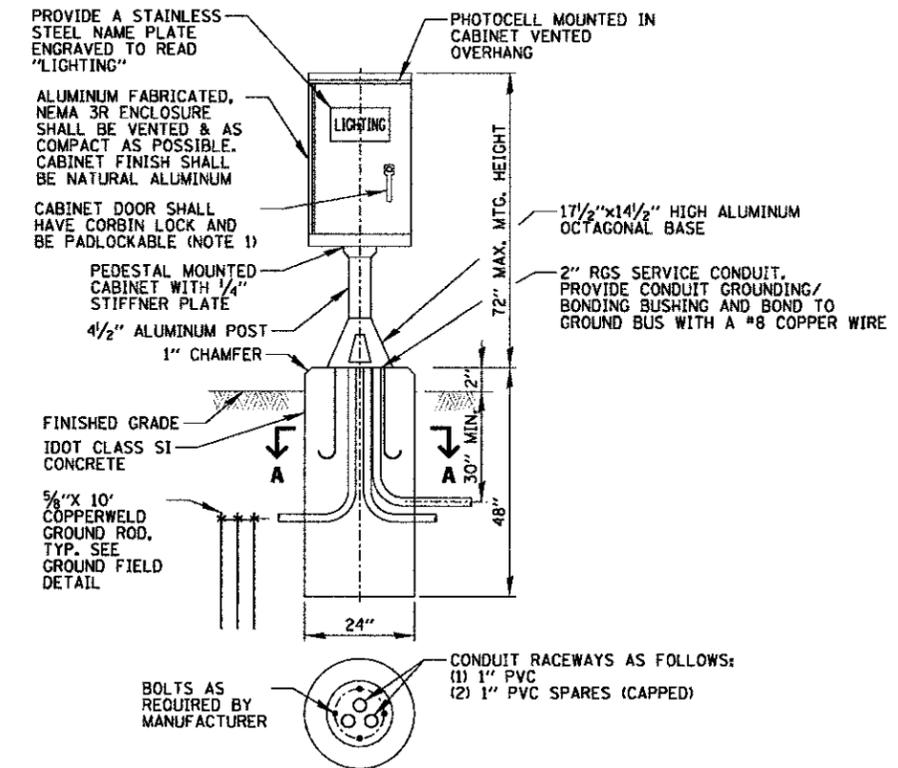
### LIGHTING CONTROLLER WIRING DETAIL

N.T.S.

CIRCUIT ID	50 W LUMINAIRES	LOAD (WATTS)	TOTAL CIRCUIT LOAD (WATTS)
A	4	60 W	240 W
B	4	60 W	240 W
C	4	60 W	240 W
D	-	-	-
TOTAL	12	N/A	720 W

### LIGHTING CONTROLLER CIRCUIT LOADS

SEQUENCE OF OPERATION			
CKT	FIXTURES CONTROLLED	TIME OF OPERATION	
		DAY	NIGHT
A	INTERNAL CEILING MOUNTED FIXTURES AND EMERGENCY LIGHTS	ON	ON
B	INTERNAL CEILING MOUNTED FIXTURES	ON	OFF
C	EXTERNAL WALL MOUNTED FIXTURES	OFF	ON



### SECTION A-A

NOTES:

- SEE LIGHTING PLAN DRAWINGS FOR DOOR ORIENTATION.
- ITEMS SHOWN ABOVE INCLUDING CABINET, CONCRETE FOUNDATION SHALL BE INCLUDED IN THE LIGHTING CONTROLLER PAY ITEM, EXCEPT FOR THE GROUND RODS AND SERVICE CONDUIT & WIRE WHICH SHALL BE PAID SEPARATELY.
- A 30"x24"x5" THICK CONCRETE WORK PAD SHALL BE PROVIDED IN FRONT OF THE CABINET. TOP OF PAD SHALL BE 1" ABOVE GRADE AND HAVE A 3/4" CHAMFER ALL AROUND.

NOTE:

ALL CONDUCTORS IN THE UNIT DUCT RUNS SHALL HAVE INDIVIDUALLY COLOR CODED INSULATION THROUGHOUT THE ENTIRE LENGTH OF THE CONDUCTOR. THE COLOR IDENTIFICATION FOR THE SYSTEM GROUND SHALL BE GREEN.

### LIGHTING CONTROLLER CABINET AND FOUNDATION

N.T.S.

FILE NAME: M:\Projects\2012\10\08\11 SouthSuperEEL\cadd\Civil\Lighting\LT\_D.dwg

**CB** CHRISTOPHER B. BURKE ENGINEERING, LTD.  
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(847) 823-0800

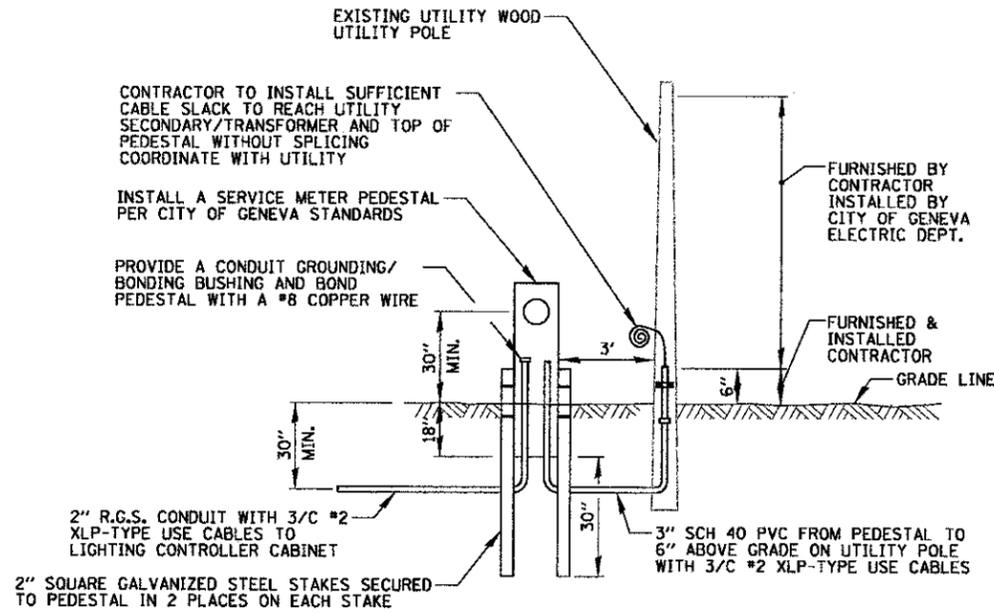
**WBK** WILLS BURKE KELSEY ASSOCIATES LTD.  
110 West Main Street, Suite 201  
St. Charles, Illinois 60154

USER NAME = mparris	DESIGNED - AJD	REVISED -
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	DATE - 5/14/12	REVISED -

STATE OF ILLINOIS  
DEPARTMENT OF TRANSPORTATION

TUNNEL LIGHTING		F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
DETAILS (1 OF 2)		0336	00-00259-00-BT	KANE	79	51
SCALE:	SHEET NO. 51 OF 79 SHEETS	STA.	TO STA.		CONTRACT NO. 63667	

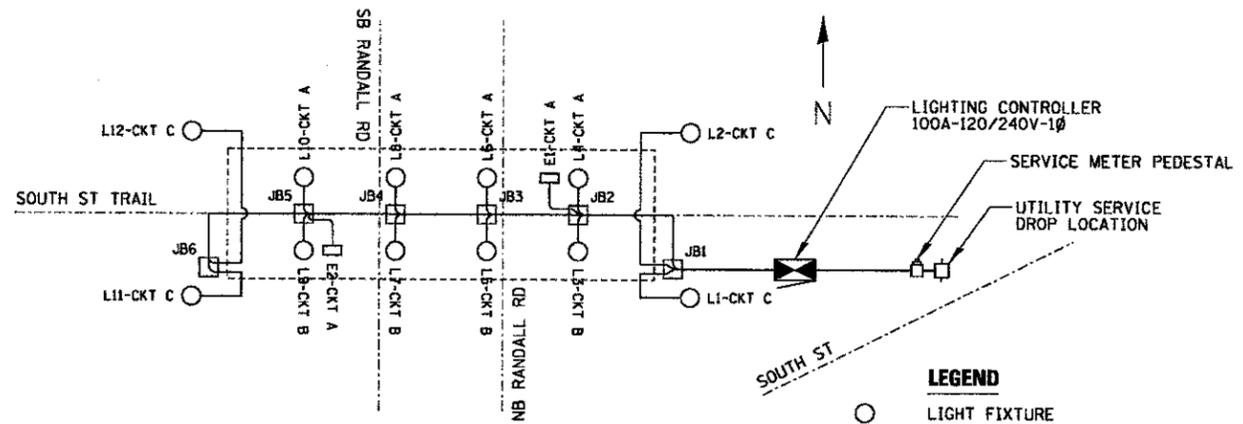
F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
0336	00-00259-00-BT	KANE	79	51
FED. ROAD DIST. NO. ILLINOIS FED. AID PROJECT				



**NOTES:**

1. ALL WORK SHALL CONFORM TO THE CITY OF GENEVA ELECTRIC DEPARTMENT REQUIREMENTS FOR THE SUPPLY OF ELECTRIC SERVICE.
2. FURNISHING AND INSTALLING ALL MATERIAL SHOWN ABOVE (EXCEPT FOR POLE) SHALL BE INCLUDED IN THE PRICE BID FOR "ELECTRIC SERVICE INSTALLATION". THE HORIZONTAL SERVICE CONDUIT AND WIRING FROM PEDESTAL TO CONTROLLER SHALL BE PAID FOR SEPARATELY.
3. CONTRACTOR SHALL PERFORM ALL COORDINATION REQUIRED WITH CITY OF GENEVA ELECTRIC DEPARTMENT FOR SERVICE APPLICATION AND CONNECTIONS.

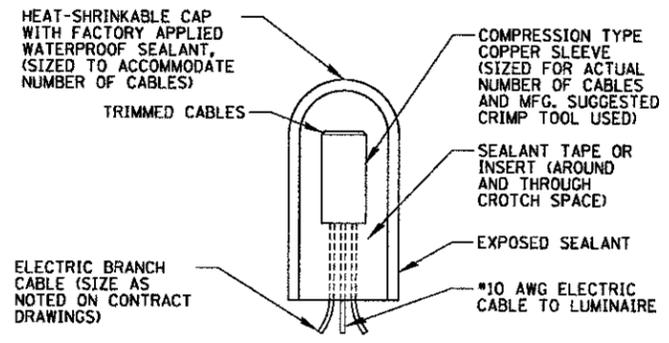
**UTILITY OVERHEAD CONNECTION POLE**  
N.T.S.



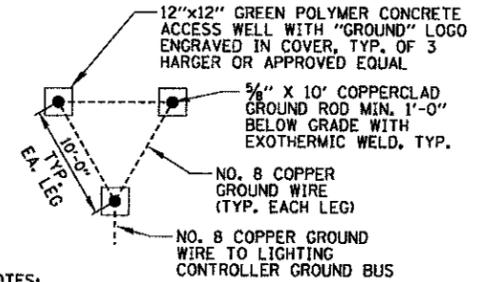
**LEGEND**

- LIGHT FIXTURE
- EMERGENCY LIGHT
- ELECTRIC LINE
- ⊠ CONTROLLER
- JUNCTION BOX
- LIGHT NUMBER
- LI-CKT A → LUMINAIRE CIRCUIT
- ROADWAY
- TUNNEL

**ONE LINE CIRCUIT DIAGRAM**  
N.T.S.



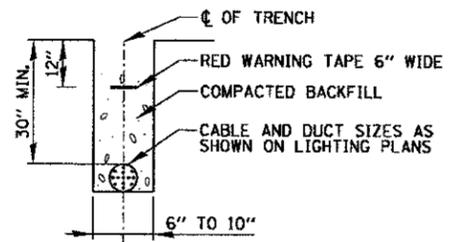
**SPLICING ELECTRIC CABLE**  
N.T.S.



**NOTES:**

1. ACCESS WELLS, GROUND RODS, AND WIRING SHALL BE INCLUDED IN THE LIGHTING CONTROLLER PAY ITEM.

**GROUND FIELD DETAIL (TYP.)**  
N.T.S.



**TRENCH CROSS SECTION**

**ELECTRIC CONDUIT INSTALLATION**  
N.T.S.

FILE NAME = M:\Projects\2010\10020911\_SouthStPEIT\Revised\Civil\Drawings\LOT\_D.B2.dgn

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110 West Main Street, Suite 201  
St. Charles, Illinois 60114  
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USER NAME = nparriss	DESIGNED -	REVISED -
PLOT SCALE =	DRAWN -	REVISED -
PLOT DATE = 5/18/2012	CHECKED -	REVISED -
	DATE - 5/14/12	REVISED -

**STATE OF ILLINOIS  
DEPARTMENT OF TRANSPORTATION**

<b>TUNNEL LIGHTING DETAILS (2 OF 2)</b>		F.A.P. RTE. 0336	SECTION 00-00259-00-BT	COUNTY KANE	TOTAL SHEETS 79	SHEET NO. 52
SCALE:	SHEET NO. 52 OF 79 SHEETS	STA.	TO STA.	CONTRACT NO. 63667		

FEB. ROAD DIST. NO.	ILLINOIS FED. AID PROJECT
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VARIABLE - TO MEET EXISTING DIMENSIONS AND FIELD CONDITIONS (SEE NOTE ②)

PROP. CONC. CURB OR CURB AND GUTTER REPLACEMENT IN ACCORDANCE WITH STATE STANDARD 606001. (SEE NOTE ②)

SAW CUT FULL DEPTH - INCLUDED IN THE COST OF SIDEWALK, DRIVEWAY OR MEDIAN SURFACE REMOVAL PAY ITEM.

SEE STATE STANDARD 606001  
EXISTING OR PROPOSED HMA SURFACE (IF APPLICABLE)

18" (450) MAX.

1/4" (5) \*\*

EXISTING SIDEWALK, DRIVEWAY, MEDIAN SURFACE, SOD OR GROUND.

PROPOSED SIDEWALK, DRIVEWAY PAVEMENT, AND TOPSOIL, 6" AND SEEDING

EXISTING CONCRETE PAVEMENT, CONCRETE BASE COURSE OR FLEXIBLE PAVEMENT

3" (75) MIN.

SUITABLE BACKFILL MATERIAL (INCLUDED IN THE COST OF CURB OR CURB AND GUTTER REMOVAL AND REPLACEMENT)

PROPOSED 3/4" (20) PREFORMED EXPANSION JOINT AT CONCRETE SIDEWALKS, DRIVEWAYS, AND MEDIANS. (INCLUDED IN THE COST OF CURB OR CURB AND GUTTER REMOVAL AND REPLACEMENT.)

\* 3" (75) MINIMUM FROM TOP AND BOTTOM OF THE CONCRETE PAVEMENT OR BASE COURSE.

\*\* IF THE FINAL SURFACE OF THE PAVEMENT IS CONCRETE, THE GUTTER IS TO BE FLUSH WITH THE PAVEMENT.

NOTE: ① SIDEWALK, DRIVEWAY PAVEMENT OR MEDIAN SURFACE SHALL BE SIMILAR TO THE MATERIAL BEING REMOVED AND WILL BE PAID FOR SEPARATELY.

SEEDING AND TOPSOIL, FURNISH AND PLACE 6" WILL BE PAID FOR SEPERATELY.

② CURB OR CURB AND GUTTER REPLACEMENT SHALL MATCH THE SHAPE OF THE EXISTING CURB OR CURB AND GUTTER UNLESS OTHERWISE SPECIFIED.

③ FOR CURB OR CURB AND GUTTER REMOVAL AND REPLACEMENT ADJACENT TO FLEXIBLE PAVEMENT DELETE EPOXY COATED TIE BARS.

④ LONGITUDINAL BARS, IF ENCOUNTERED IN THE EXISTING CURB OR CURB AND GUTTER, ARE NOT TO BE REPLACED. CUTTING AND REMOVING LONGITUDINAL BARS SHALL BE INCLUDED IN THE COST OF CURB OR CURB AND GUTTER REMOVAL AND REPLACEMENT.

⑤ THE COST OF HMA SURFACE REMOVAL IN THE EXISTING GUTTER FLAG SHALL BE INCLUDED IN THE COST OF THE CURB AND GUTTER REMOVAL AND REPLACEMENT.

⑥ THE REMOVAL AND REPLACEMENT OF THE EXISTING CURB OR CURB AND GUTTER SHALL BE DONE IN ACCORDANCE WITH THE APPLICABLE PORTIONS OF SECTION 440 AND 606 OF THE STANDARD SPECIFICATIONS.

⑦ THE LOCATIONS OF REMOVAL AND REPLACEMENT OF EXISTING CURB OR CURB AND GUTTER SHALL BE DETERMINED BY THE RESIDENT ENGINEER AT THE TIME OF CONSTRUCTION.

UNSUITABLE SUB-BASE MATERIAL TO BE REMOVED, IF DIRECTED BY THE ENGINEER, SHALL BE REPLACED WITH EITHER SUB-BASE GRANULAR MATERIAL, TYPE B OR ADDITIONAL THICKNESS OF CONCRETE.

REMOVAL AND REPLACEMENT 4" (100) OR LESS IS INCLUDED IN THE COST OF CURB OR CURB AND GUTTER REMOVAL AND REPLACEMENT.

REMOVAL AND REPLACEMENT IN EXCESS OF 4" (100) WILL BE PAID FOR IN ACCORDANCE WITH ARTICLE 109.04 OF THE STANDARD SPECIFICATIONS.

PROPOSED #6 (20) EPOXY COATED TIE BARS 24" (600) LONG AT 24" (600) CENTERS WILL NOT BE PAID FOR SEPARATELY. DELETE EPOXY COATED TIE BARS IF EXISTING TIE BARS ARE USUABLE AS DETERMINED BY THE ENGINEER. (SEE NOTE ③).

**BASIS OF PAYMENT**  
THIS WORK WILL BE PAID FOR AT THE CONTRACT UNIT PRICE PER FOOT FOR "COMBINATION CURB AND GUTTER REMOVAL" AND "CONCRETE COMBINATION CURB AND GUTTER" OF THE TYPE AND SIZE SPECIFIED IN THE PLANS.

# CURB OR CURB AND GUTTER REMOVAL AND REPLACEMENT

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

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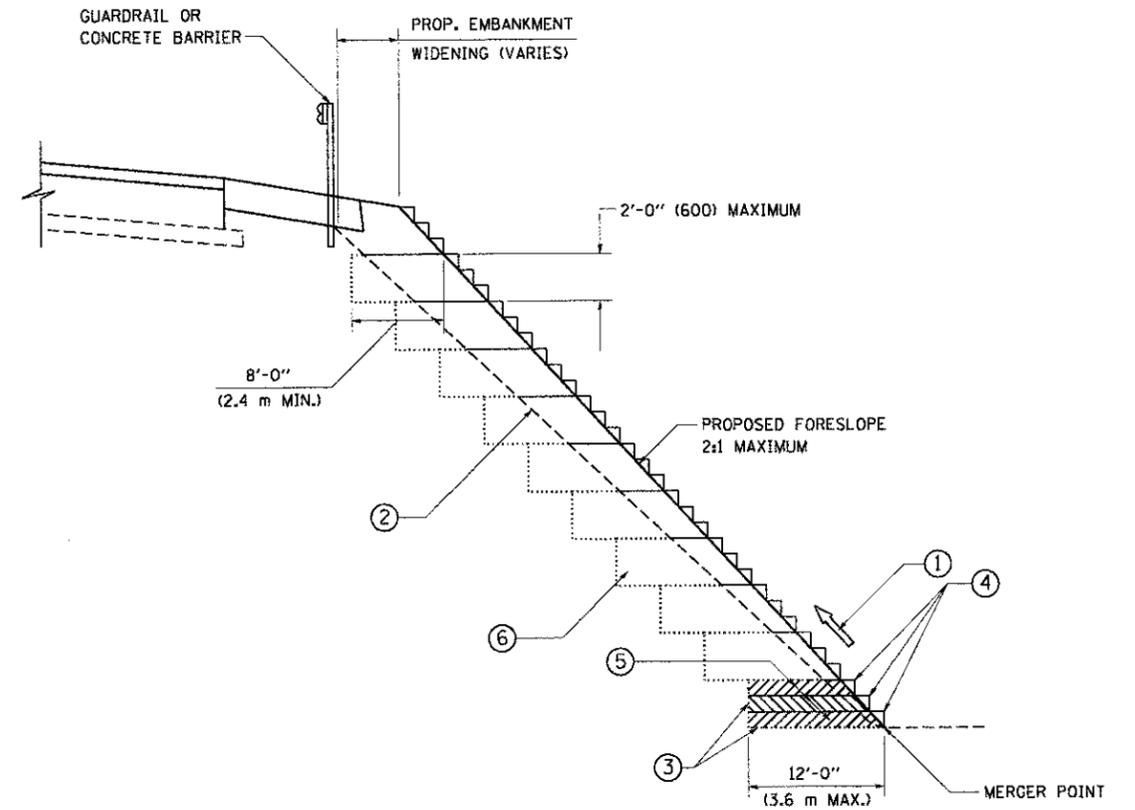
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118 West Main Street, Suite 201  
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USER NAME = nporris	DESIGNED -	REVISED -
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PLOT DATE = 5/18/2012	CHECKED -	REVISED -
	DATE = 5/14/12	REVISED -

**STATE OF ILLINOIS  
DEPARTMENT OF TRANSPORTATION**

<b>CURB OR CURB AND GUTTER REMOVAL AND REPLACEMENT DETAIL</b>	
SCALE: N/A	SHEET NO. 54 OF 79 SHEETS   STA. TO STA.

F.A.P. RTE. 0336	SECTION 00-00259-00-BT	COUNTY KANE	TOTAL SHEETS 79	SHEET NO. 54
CONTRACT NO. 63667				
FED. ROAD DIST. NO. ILLINOIS FED. AID PROJECT				



**TYPICAL BENCHING DETAIL  
FOR EMBANKMENT**

**NOTES:**

- ① CONSTRUCT SUCCEEDING BENCH CUTS AND EMBANKMENT PLACEMENT AND COMPACTION FROM BOTTOM TO TOP IN STAIRSTEP FASHION.
- ② EXISTING FORESLOPE PREPARED IN ACCORDANCE WITH ARTICLE 205.03 OF THE STANDARD SPECIFICATIONS.
- ③ BENCH CUT EXISTING SLOPE TYPICAL FOR EACH STEP.
- ④ TRIM TO FINAL SLOPE.
- ⑤ EQUAL 8-INCH (200) LIFTS OF EMBANKMENT COMPACTED IN ACCORDANCE WITH ARTICLE 205.05 OF THE STANDARD SPECIFICATIONS.
- ⑥ EXCAVATION OF BENCH CUTS WITHIN EXISTING EMBANKMENT WILL BE PAID FOR AT THE CONTRACT UNIT PRICE PER CUBIC METER OR CUBIC YARD FOR "EARTH EXCAVATION". THIS PRICE WILL INCLUDE ALL LABOR AND MATERIAL, NO ADDITIONAL COMPENSATION WILL BE ALLOWED.
- ⑦ SLOPES SHALL BE BENCHED ACCORDING TO THIS DETAIL WHEN THE SLOPE IS STEEPER THAN 4:1 AND THE HEIGHT IS GREATER THAN 5' (1.5 m).

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

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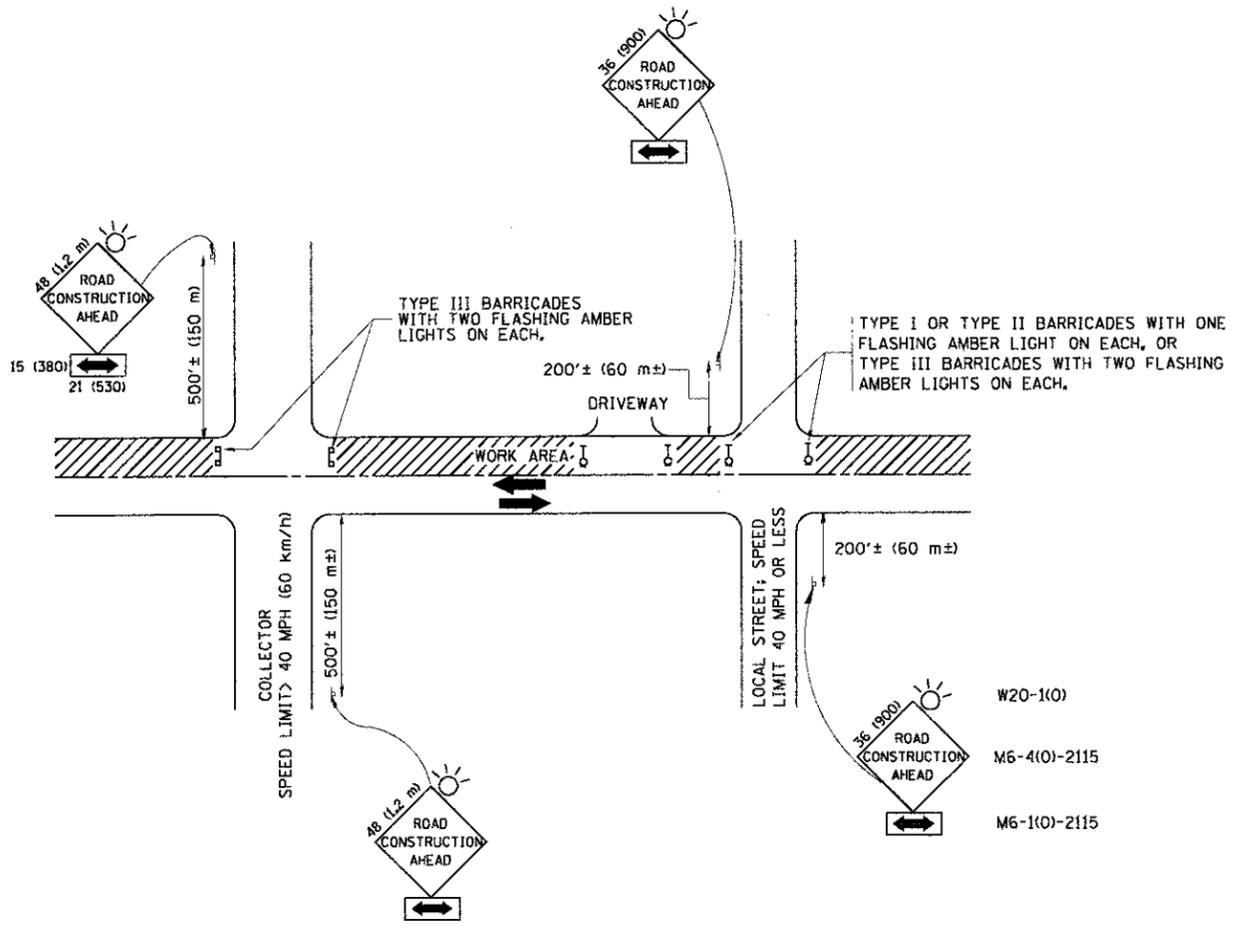
**STATE OF ILLINOIS  
DEPARTMENT OF TRANSPORTATION**

**BENCHING DETAIL  
FOR EMBANKMENT WIDENING**

SCALE: NONE    SHEET NO. 55 OF 79 SHEETS    STA.    TO STA.

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
0336	00-00259-00-BT	KANE	79	55
<b>BD-51</b>			<b>CONTRACT NO. 63667</b>	
FED. ROAD DIST. NO. 1 ILLINOIS FED. AID PROJECT				

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TRAFFIC CONTROL AND PROTECTION FOR SIDE ROADS, INTERSECTIONS, AND DRIVEWAYS

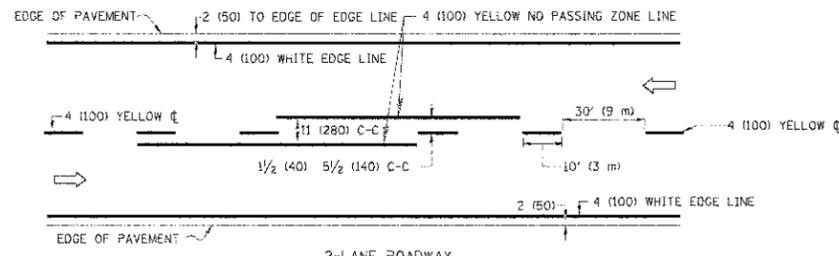
NOTES:

- A. FOR NO LANE RESTRICTION ON THE SIDE ROAD OR DRIVEWAYS
  1. SIDE ROAD WITH A SPEED LIMIT OF 40 MPH (60 km/h) OR LESS AS SHOWN ON THE DRAWING AND AS DIRECTED BY THE ENGINEER:
    - a) ONE ROAD CONSTRUCTION AHEAD SIGN 36 x 36 (900x900) WITH A FLASHER AND FLAG MOUNTED ON IT APPROXIMATELY 200' (60 m) IN ADVANCE OF THE MAIN ROUTE.
    - b) THE CLOSED PORTION OF THE MAIN ROUTE SHALL BE PROTECTED BY BLOCKING WITH TYPE I, TYPE II OR TYPE III BARRICADES, 1/3 OF THE CROSS SECTION OF THE CLOSED PORTION.
  2. SIDE ROAD WITH A SPEED LIMIT GREATER THAN 40 MPH (60 km/h) AS SHOWN ON THE DRAWING AND AS DIRECTED BY THE ENGINEER:
    - a) ONE ROAD CONSTRUCTION AHEAD SIGN 48 x 48 (1.2 m x 1.2 m) WITH A FLASHER MOUNTED ON IT APPROXIMATELY 500' (150 m) IN ADVANCE OF THE MAIN ROUTE.
    - b) THE CLOSED PORTION OF THE MAIN ROUTE SHALL BE PROTECTED BY BLOCKING WITH TYPE III BARRICADES, 1/2 OF THE CROSS SECTION OF THE CLOSED PORTION.
  3. WHEN THE SIDE ROAD LIES BETWEEN THE BEGINNING OF THE MAINLINE SIGNING AND THE WORK ZONE, A SINGLE HEADED ARROW (M6-1) SHALL BE USED IN LIEU OF THE DOUBLE HEADED ARROW (M6-4).
- B. FOR A LANE CLOSURE ON A SIDE ROAD OR DRIVEWAY:
 

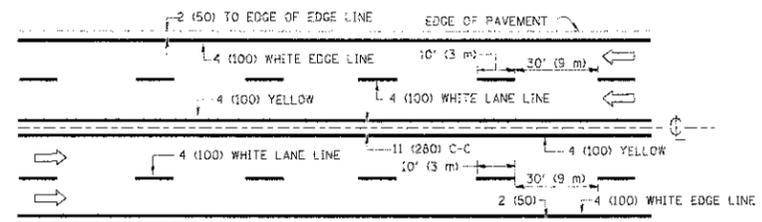
USE APPLICABLE PORTIONS OF THE TYPICAL APPLICATION OF TRAFFIC CONTROL DEVICES (STD. 701501, STD. 701606 OR THE APPROPRIATE STANDARD). THE SPACING OF SIGNS AND BARRICADES SHALL BE ADJUSTED FOR FIELD CONDITIONS AS DIRECTED BY THE ENGINEER. THE DIRECTIONAL ARROW SHALL BE COVERED OR REMOVED WHEN NO LONGER CONSISTENT WITH THE SIDE ROAD LANE CLOSURE.
- C. ADVANCE WARNING SIGNS ARE TO BE OMITTED ON DRIVEWAY UNLESS OTHERWISE NOTED.
- D. THE TRAFFIC CONTROL AND PROTECTION FOR SIDE ROADS, INTERSECTIONS, AND DRIVEWAYS SHALL BE INCIDENTAL TO THE COST OF SPECIFIED TRAFFIC CONTROL STANDARDS OR ITEMS.

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

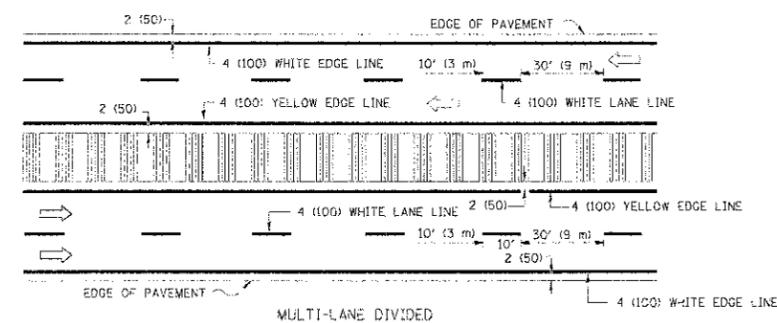
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PLOT SCALE = 50.000' / 1"	CHECKED -	REVISED - A. HOUSEH 03-06-96	REVISED - A. HOUSEH 10-15-96			SCALE: NONE	SHEET NO. 56 OF 79 SHEETS	STA. TO STA.	TC-10 CONTRACT NO. 63667			
PLOT DATE = 5/11/2012	DATE - 06-89	REVISED - T. RAMMACHER 01-06-00				FED. ROAD DIST. NO. 1 ILLINOIS FED. AID PROJECT						



2-LANE ROADWAY



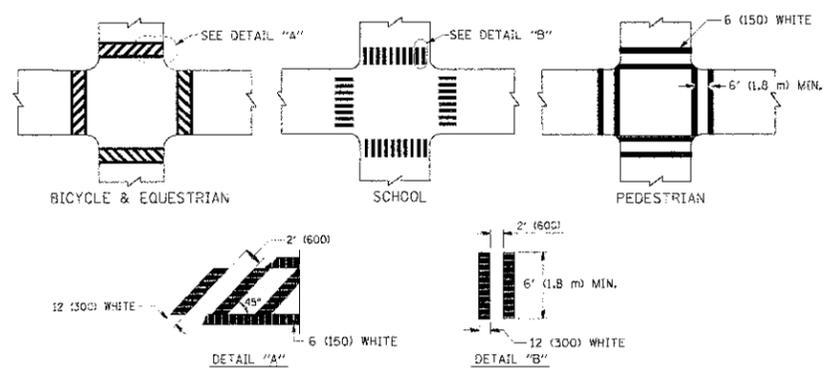
MULTI-LANE UNDIVIDED



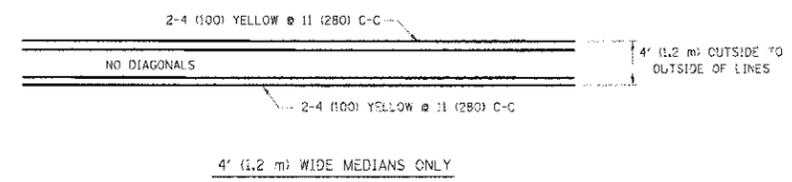
MULTI-LANE DIVIDED WITH MOUNTABLE MEDIAN

NOTE: MEDIANS WITH BARRIER CURBS DO NOT REQUIRE AN EDGE LINE

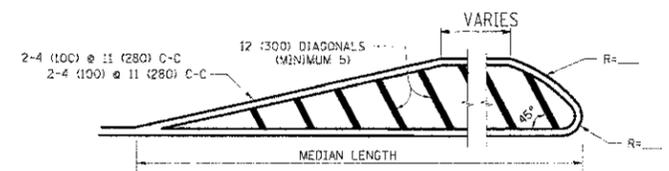
TYPICAL LANE AND EDGE LINE MARKING



TYPICAL CROSSWALK MARKING

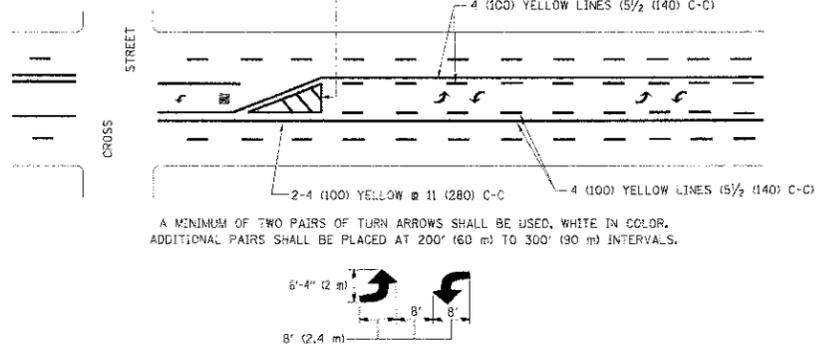


4' (1.2 m) WIDE MEDIANS ONLY

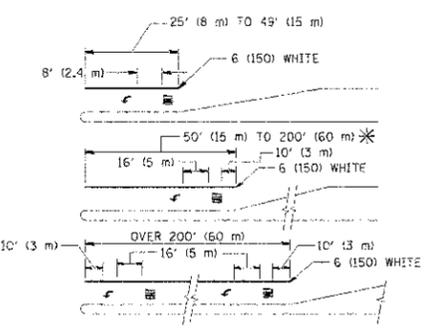


FOR MEDIAN LENGTHS WHERE DIAGONAL SPACING CANNOT BE ATTAINED, USE 5 (FIVE) EQUALLY SPACED DIAGONAL LINES.  
DIAGONAL LINE SPACING: 50' (15 m) C-C (LESS THAN 30MPH (50 km/h))  
75' (25 m) C-C 30MPH (50 km/h) TO 45MPH (70 km/h)  
150' (45 m) C-C (MORE THAN 45MPH (70 km/h))

MEDIANS OVER 4' (1.2 m) WIDE



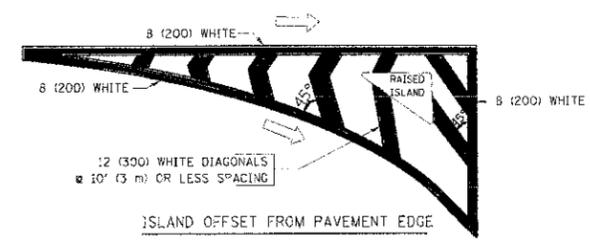
TYPICAL PAINTED MEDIAN MARKING



FULL SIZE LETTERS 8' (2.4 m) AND ARROWS SHALL BE USED.  
AREA = 15.6 SQ. FT. (1.5 m<sup>2</sup>) ONLY AREA = 20.8 SQ. FT. (1.9 m<sup>2</sup>)  
\* TURN LANES IN EXCESS OF 400' (120 m) IN LENGTH MAY HAVE AN ADDITIONAL SET OF ARROW - "ONLY" INSTALLED MIDWAY BETWEEN THE OTHER TWO SETS OF ARROW - "ONLY".

TYPICAL LEFT (OR RIGHT) TURN LANE

TYPICAL TURN LANE MARKING



ISLAND OFFSET FROM PAVEMENT EDGE



ISLAND AT PAVEMENT EDGE

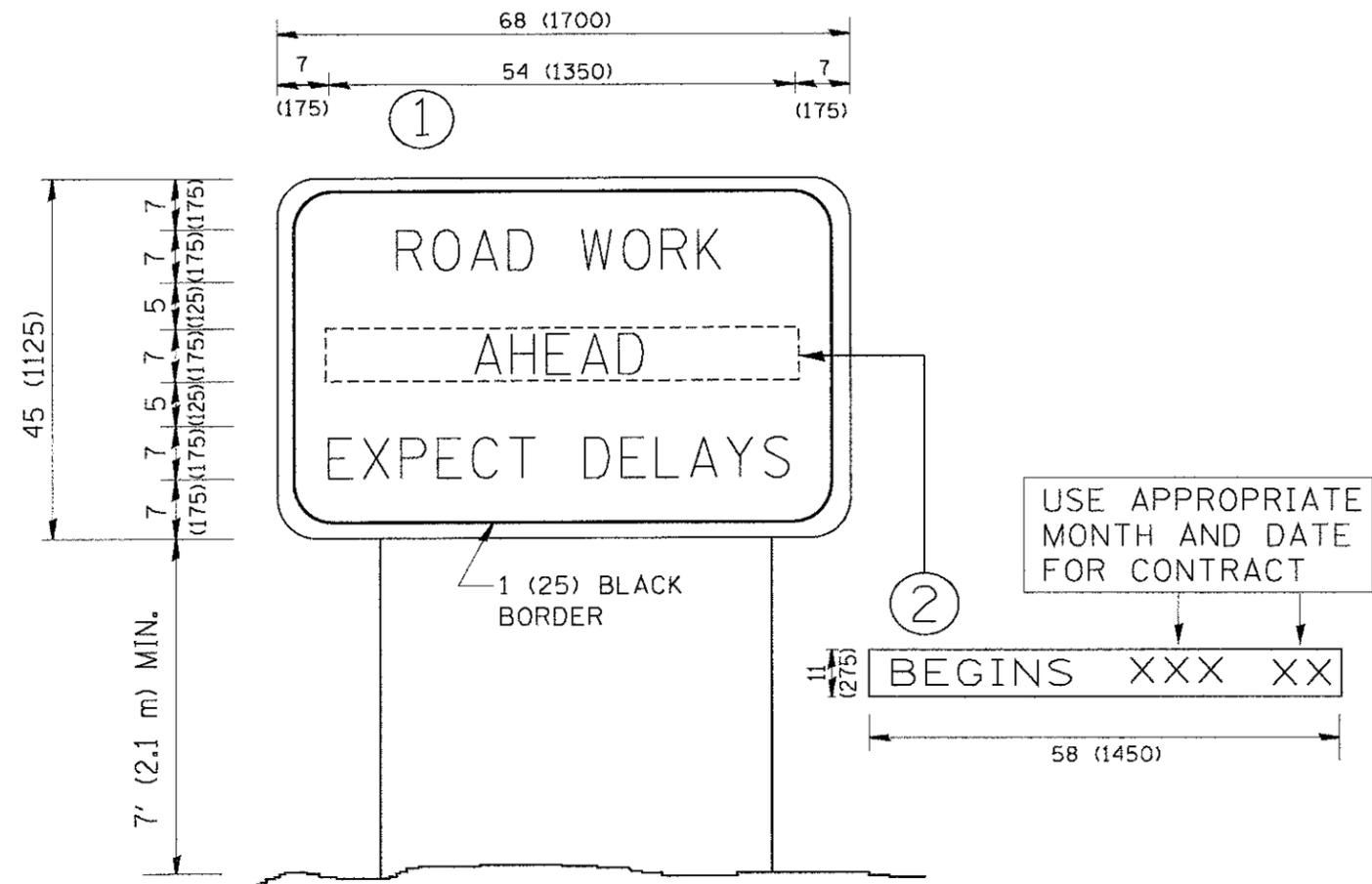
TYPICAL ISLAND MARKING

TYPE OF MARKING	WIDTH OF LINE	PATTERN	COLOR	SPACING / REMARKS
CENTERLINE ON 2 LANE PAVEMENT	4 (100)	SKIP-DASH	YELLOW	10' (3 m) LINE WITH 30' (9 m) SPACE
CENTERLINE ON MULTI-LANE UNDIVIDED PAVEMENT	2 @ 4 (100)	SOLID	YELLOW	11 (280) C-C
NO PASSING ZONE LINES FOR ONE DIRECTION FOR BOTH DIRECTIONS	4 (100) 2 @ 4 (100)	SOLID SOLID	YELLOW YELLOW	5/2 (140) C-C FROM SKIP-DASH CENTERLINE 11 (280) C-C OMIT SKIP-DASH CENTERLINE BETWEEN
LANE LINES	4 (100) 5 (125) ON FREEWAYS	SKIP-DASH SKIP-DASH	WHITE WHITE	10' (3 m) LINE WITH 30' (9 m) SPACE
DOTTED LINES (EXTENSIONS OF CENTER LANE OR TURN LANE MARKINGS)	SAME AS LINE BEING EXTENDED	SKIP-DASH	SAME AS LINE BEING EXTENDED	2' (600) LINE WITH 6' (1.8 m) SPACE
EDGE LINES	4 (100)	SOLID	YELLOW-LEFT WHITE-RIGHT	OUTLINE MOUNTABLE MEDIANS IN YELLOW; EDGE LINES ARE NOT USED NEXT TO BARRIER CURB
TURN LANE MARKINGS	6 (150) LINE, FULL SIZE LETTERS & SYMBOLS (8' (2.4m))	SOLID	WHITE	SEE TYPICAL TURN LANE MARKING DETAIL
TWO WAY LEFT TURN MARKING	2 @ 4 (100) EACH DIRECTION 8' (2.4m) LEFT ARROW	SKIP-DASH AND SOLID IN PAIRS	YELLOW WHITE	10' (3 m) LINE WITH 30' (9 m) SPACE FOR SKIP-DASH 5/2 (140) C-C BETWEEN SOLID LINE AND SKIP-DASH LINE SEE TYPICAL TWO-WAY LEFT TURN MARKING DETAIL
CROSSWALK LINES (PEDESTRIAN A. DIAGONALS (BIKE & EQUESTRIAN) B. LONGITUDINAL BARS (SCHOOL))	2 @ 6 (150) 12 (300) @ 45° 12 (300) @ 90°	SOLID SOLID SOLID	WHITE WHITE WHITE	NOT LESS THAN 6' (1.8 m) APART 2' (600) APART 2' (600) APART SEE TYPICAL CROSSWALK MARKING DETAILS.
STOP LINES	24 (600)	SOLID	WHITE	PLACE 4' (1.2 m) IN ADVANCE OF AND PARALLEL TO CROSSWALK, IF PRESENT. OTHERWISE, PLACE AT DESIRED STOPPING POINT, PARALLEL TO CROSSROAD CENTERLINE, WHERE POSSIBLE
PAINTED MEDIANS	2 @ 4 (100) WITH 12 (300) DIAGONALS @ 45° NO DIAGONALS USED FOR 4' (1.2 m) WIDE MEDIANS	SOLID	YELLOW WHITE WHITE	11 (280) C-C FOR THE DOUBLE LINE SEE TYPICAL PAINTED MEDIAN MARKING.
GORE MARKING AND CHANNELIZING LINES	8 (200) WITH 12 (300) DIAGONALS @ 45°	SOLID	WHITE	DIAGONALS: 15' (4.5 m) C-C (LESS THAN 30MPH (50 km/h)) 20' (6 m) C-C 30MPH (50 km/h) TO 45MPH (70 km/h) 30' (9 m) C-C (OVER 45MPH (70 km/h))
RAILROAD CROSSING	24 (600) TRANSVERSE LINES; "RR" 15' (4.5 m) LINE FOR "X"	SOLID	WHITE	SEE STATE STANDARD 780001 AREA OF: "R"=3.6 SQ. FT. (0.33 m <sup>2</sup> ) EACH "X"=54.0 SQ. FT. (5.0 m <sup>2</sup> )
SHOULDER DIAGONALS	12 (300) @ 45°	SOLID	WHITE - RIGHT YELLOW - LEFT	50' (15 m) C-C (LESS THAN 30MPH (50 km/h)) 75' (25 m) C-C (30 MPH (50 km/h) TO 45MPH (70 km/h)) 150' (45 m) C-C (OVER 45MPH (70 km/h))

FOR FURTHER DETAILS ON PAVEMENT MARKING REFER TO STANDARD SPECIFICATIONS FOR ROAD AND BRIDGE CONSTRUCTION AND STATE STANDARD 780001.

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

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**NOTES:**

1. USE BLACK LETTERING ON ORANGE BACKGROUND.
2. ERECT SIGNS IN ADVANCE OF THE LOCATION FOR THE "ROAD CONSTRUCTION AHEAD" SIGN AT LOCATIONS AS DIRECTED BY THE ENGINEER.
3. ERECT SIGN ① WITH INSTALLED PANEL ② ONE WEEK PRIOR TO THE START OF CONSTRUCTION.
4. REMOVE PANEL ② SOON AFTER THE START OF CONSTRUCTION.
5. SEE SPECIAL PROVISION FOR "TEMPORARY INFORMATION SIGNING" FOR ADDITIONAL INFORMATION.
6. ONE SIGN ASSEMBLY EQUALS 25.70 SQ. FT. (2.3 SQ. M.)
7. SHALL BE PAID FOR AS TEMPORARY INFORMATION SIGNING.

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

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		DRAWN -	REVISED - R. MIRS 12-11-97
	PLOT SCALE = 50.000' / IN.	CHECKED -	REVISED - T. RAMMACHER 02-02-99
	PLOT DATE = 5/11/2012	DATE -	REVISED - C. JUCIUS 01-31-07

**STATE OF ILLINOIS  
DEPARTMENT OF TRANSPORTATION**

**ARTERIAL ROAD  
INFORMATION SIGN**

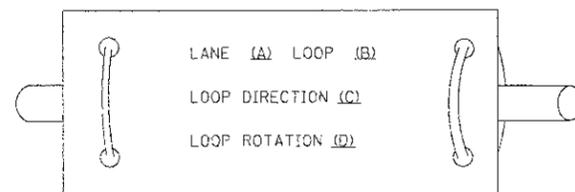
SCALE: NONE SHEET NO. 58 OF 79 SHEETS STA. TO STA.

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
0336	00-00259-00-BT	KANE	79	58
<b>TC-22</b>		<b>CONTRACT NO. 63667</b>		
FED. ROAD DIST. NO. 1 ILLINOIS FED. AID PROJECT				

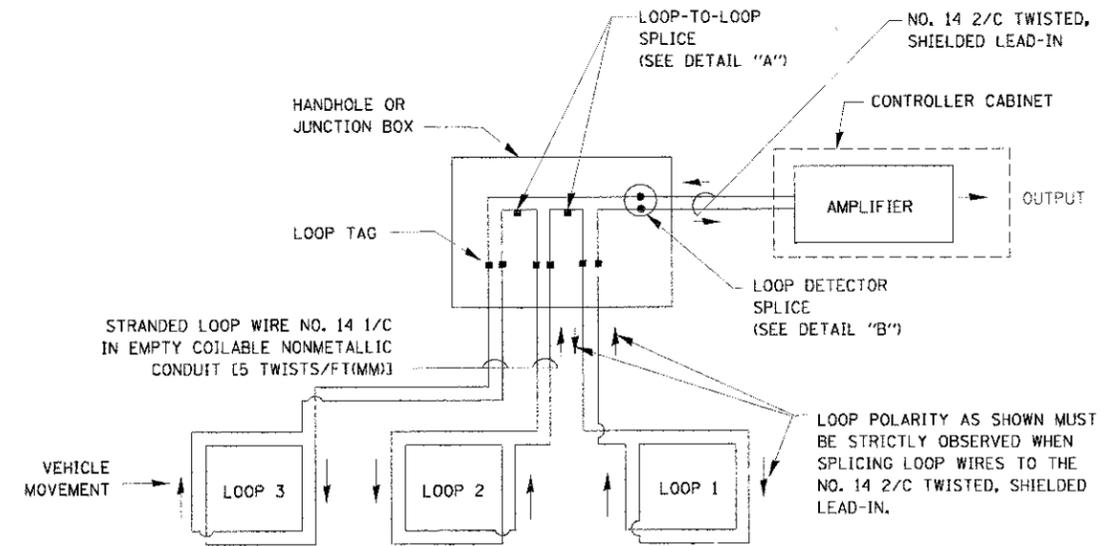
## LOOP DETECTOR NOTES

- EACH PAIR OF LOOP WIRES SHALL BE PLACED IN A SEPARATE EMPTY COILABLE NONMETALLIC CONDUIT FROM THE EDGE OF PAVEMENT TO THE HANDHOLE. SPACING BETWEEN THE HOLES DRILLED IN THE PAVEMENT SHALL NOT BE LESS THAN 6" (150 mm). EMPTY COILABLE NONMETALLIC CONDUIT SHALL BE INCLUDED IN THE COST OF THE LOOP WIRE.
- THE NUMBER OF LOOP TURNS SHALL BE AS RECOMMENDED BY THE AMPLIFIER MANUFACTURER. ALL ADJACENT SIDES OF THE LOOPS SHALL BE INSTALLED IN SUCH A WAY THAT THE CURRENT FLOW IS IN THE SAME DIRECTION TO REINFORCE ITS MAGNETIC FIELDS FOR SMALL VEHICLE DETECTION.
- EACH LOOP LEAD-IN SHALL BE IDENTIFIED AND PERMANENTLY TAGGED IN THE HANDHOLE. EACH LEAD-IN CABLE TAG SHALL INDICATE THE LOCATION OF THE LOOP, LOOP ROTATION (CLOCKWISE/COUNTERCLOCKWISE), LOOP LEAD-IN DIRECTION (IN OR OUT), LOOP CABLE NUMBER AND LOCATION IN CABINET, AND NUMBER OF TURNS IN THE DETECTOR LOOPS IN WATER PROOF INK AS INDICATED ON THE DISTRICT 1 STANDARD TRAFFIC SIGNAL DESIGN DETAIL. THE CONTRACTOR SHALL MARK LOOP LOCATIONS ON RECORD DRAWINGS AND PRESENT TO THE ENGINEER AFTER FINAL INSPECTION. LOOPS SHALL BE MARKED BY LANE AND LOOP NUMBER. SEE DETAIL BELOW.
- ALL LOOP CABLE SHALL BE FASTENED WITH PLASTIC TIE WRAP TO THE HANDHOLE HOOKS.
- IN ASPHALT PAVEMENT, LOOPS SHOULD BE PLACED IN THE BINDER AND DIVESHOLES MARKED AT THE CURB WITH A SAW-CUT. THE SAW-CUT SHALL BE CUT IN ACCORDANCE WITH LOCAL AND E.P.A. DUST CONTROL REQUIREMENTS. DETECTOR LOOP(S) SHALL NOT BE INSTALLED IN WET CONDITIONS AND THE SAW-CUTS MUST BE FREE OF DEBRIS AND RESIDUE SUCH AS DUST AND WATER WHICH IS TO BE ACHIEVED BY THE USE OF COMPRESSED AIR, WIRE BRUSHING AND HEAT DRYING ACCORDING TO SEALANT MANUFACTURER REQUIREMENTS. THE DETECTOR WIRE SHALL BE HELD IN PLACE BY THE USE OF FORM WEDGES. WEDGES SHALL BE SPACED NO MORE THAN 18" (450 mm) APART.
- LOOP SPLICES SHALL BE SOLDERED USING A SOLDERING IRON. BLOW TORCHES OR OTHER DEVICES WHICH OXIDIZE COPPER CABLE SHALL NOT BE ALLOWED FOR SOLDERING OPERATIONS. SEE DETAIL BELOW RIGHT.
- PREFORMED DETECTOR LOOPS SHALL BE USED, AS SHOWN ON THE PLANS, WHERE NEW CONCRETE PAVEMENT IS PROPOSED. THE INSTALLATION OF PREFORMED LOOPS SHALL BE IN ACCORDANCE WITH THE DISTRICT 1 SPECIFICATIONS OR AS DIRECTED BY THE ENGINEER.

### LOOP LEAD-IN CABLE TAG

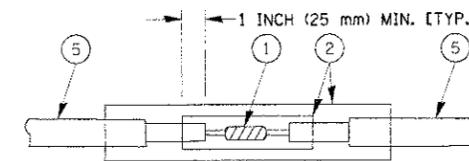


- LANE 1 IS THE LANE CLOSEST TO THE CENTERLINE OF THE ROADWAY
- LOOP #1 IS THE LOOP IN THE LANE CLOSEST TO THE INTERSECTION.
- LABEL LOOP CABLE "IN" OR LOOP CABLE "OUT".
- LABEL LOOP CABLE CLOCKWISE OR LOOP CABLE COUNTERCLOCKWISE.

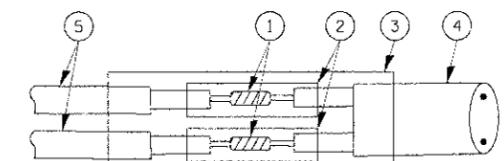


### DETECTOR LOOP WIRING SCHEMATIC

- LOOPS SHALL BE SPLICED IN SERIES.
- SAW-CUTS SHALL BE A MINIMUM WIDTH OF 5/16" (8 mm).
- SAW-CUT DEPTHS SHALL BE 3" (75 mm). IF IN CONCRETE, THE SAW-CUT DEPTH SHALL BE TO THE TOP OF THE REINFORCEMENT.
- LOOP CORNERS SHALL BE DRILLED WITH A 2" (50 mm) DIAMETER CORE.

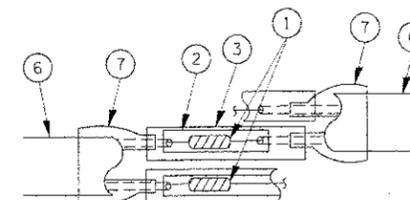


DETAIL "A"  
LOOP-TO-LOOP SPLICE

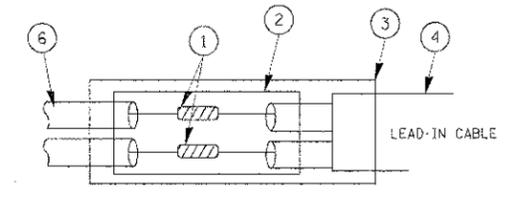


DETAIL "B"  
LOOP-TO-CONTROLLER SPLICE

### TYPE I LOOP



DETAIL "A"  
LOOP-TO-LOOP SPLICE



DETAIL "B"  
LOOP-TO-CONTROLLER SPLICE

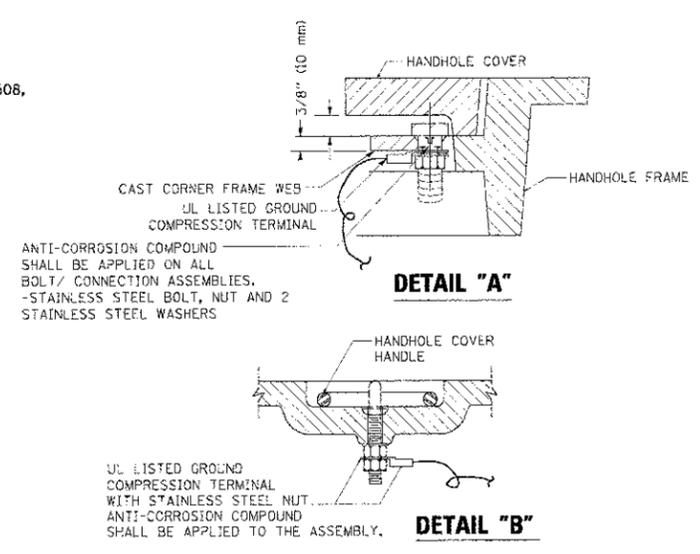
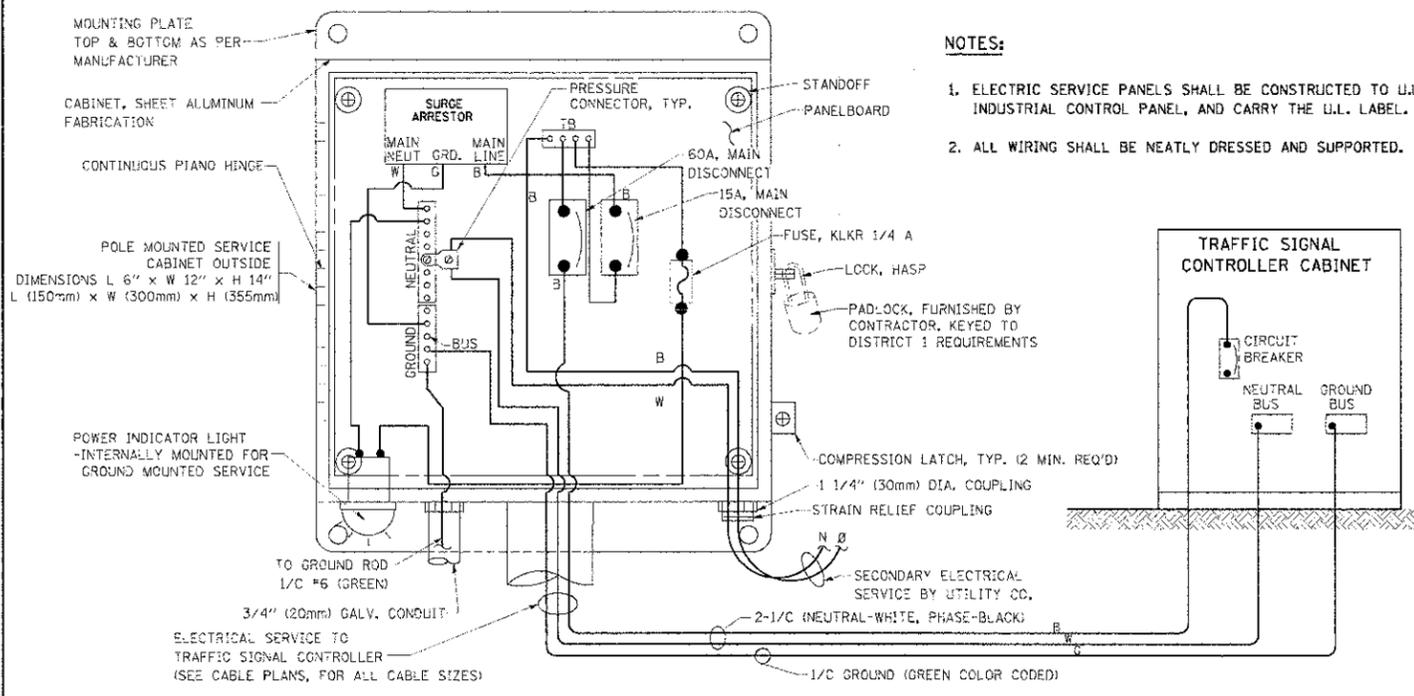
### LOOP DETECTOR SPLICE

- WESTERN UNION SPLICE SOLDERED WITH ROSIN CORE FLUX. ALL EXPOSED SURFACES OF THE SOLDER SHALL BE SMOOTH.
- WCSMW 30/100 HEAT SHRINK TUBE, MINIMUM LENGTH 3" (75 mm), UNDERWATER GRADE.
- WCS 200/750 HEAT SHRINK TUBE, MINIMUM LENGTH 6" (150 mm), UNDERWATER GRADE.
- NO. 14 2/C TWISTED, SHIELDED CABLE.
- LOOP CONDUCTOR WITH FLEXIBLE PLASTIC TUBE.
- PRE-FORMED LOOP
- XL POLYOLEFIN 2 CONDUCTOR BREAKOUT SEALS, TYCO CBR-2 OR APPROVED EQUAL

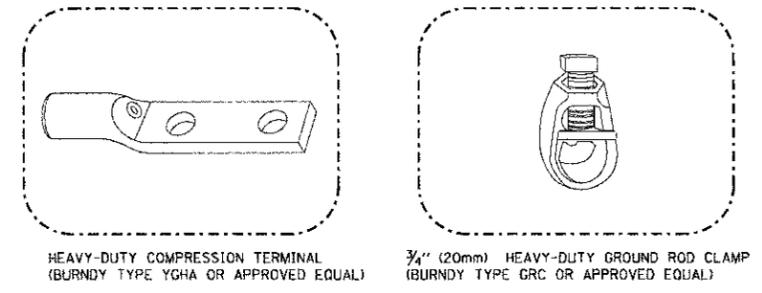
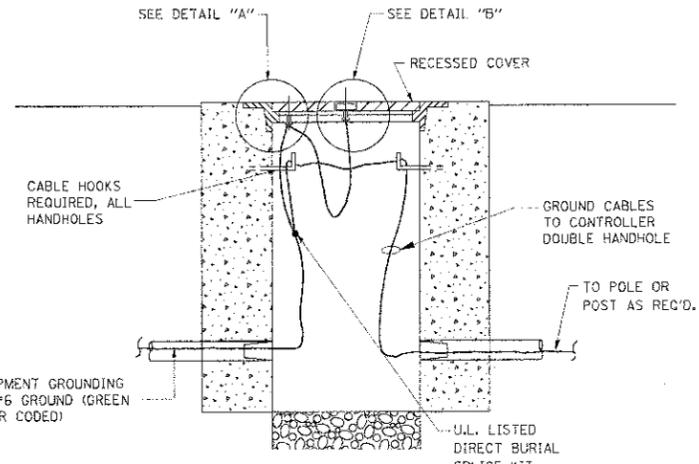
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DESIGNED - DAD	REVISOR -	<b>STATE OF ILLINOIS DEPARTMENT OF TRANSPORTATION</b>	<b>DISTRICT ONE STANDARD TRAFFIC SIGNAL DESIGN DETAILS</b>		F.A.P. R.T.E. 0336	SECTION 00-00259-00-BT	COUNTY KANE	TOTAL SHEETS 79	SHEET NO. 59	
DRAWN - BCK	REVISOR -		SCALE: NONE	SHEET NO. 1 OF 6 SHEETS	STA. TO STA.	<b>TS-05</b>				
CHECKED - DAD	REVISOR -		CONTRACT NO. 63667							
DATE - 10-28-09	REVISOR -		FED. ROAD DIST. NO. 1 (ILLINOIS) FED. AID PROJECT							

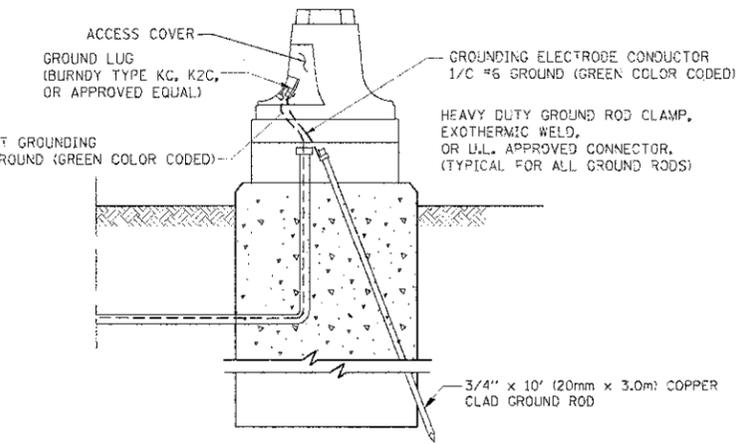
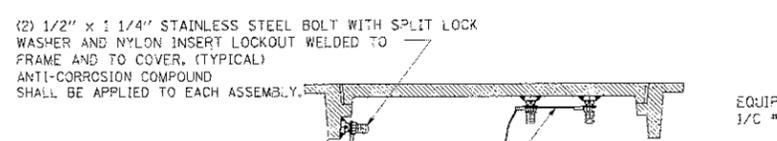
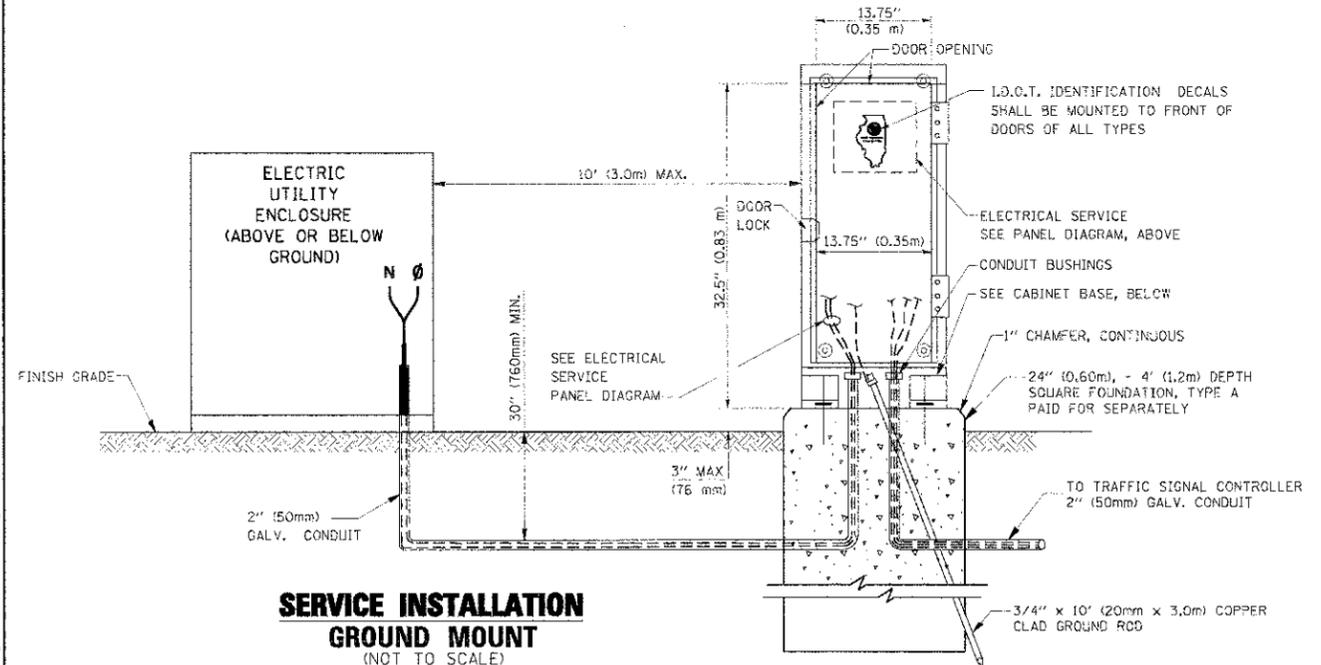




- NOTES:**
- GROUNDING SYSTEM**
1. THE GROUNDING SYSTEM SHALL CONSIST OF AN INSULATED CONDUCTOR TYPE XLP, NO. 6 A.W.G., STRANDED COPPER TO BE INSTALLED IN RACEWAYS. THE GROUNDING CABLE SHALL BE INSTALLED IN A CONTINUOUS MANNER AS SHOWN ON THE CABLE PLAN PROVIDED. ALL GROUNDING CONDUCTORS SHALL BE BONDED TO METAL ENCLOSURE (HANDHOLE, POST, MAST ARM, CONTROLLER, ETC.). GROUND ROD SHALL BE 3/4" DIA. x 10'-0" (20mm x 3.0m) LONG, COPPER CLAD. ONE GROUND ROD SHALL BE INSTALLED AT ALL POST FOUNDATIONS, POLE FOUNDATIONS, CONTROLLER CABINET FOUNDATION AND ELECTRICAL SERVICE INSTALLATION AS INDICATED ON THE CABLE PLAN. IF THERE ARE ANY SPECIAL CONDITIONS SUCH AS SUB-SURFACE CONDITIONS OR INSTALLATION PROBLEMS, THE RESIDENT ENGINEER SHALL BE NOTIFIED OR CONTACT THE BUREAU OF TRAFFIC, ILLINOIS DEPARTMENT OF TRANSPORTATION DISTRICT ONE AT (847) 705-4139.
  2. THE NEUTRAL CONDUCTOR AND THE GROUND CONDUCTOR SHALL BE CONNECTED IN THE SERVICE INSTALLATION. AT NO OTHER POINT IN THE TRAFFIC SIGNAL SYSTEM SHALL THE NEUTRAL AND GROUND CONDUCTORS BE CONNECTED.
  3. ALL EQUIPMENT GROUNDING CONDUCTORS SHALL TERMINATE AT THE GROUND BUS IN THE CONTROLLER CABINET.
  4. THE CONTRACTOR SHALL PROVIDE A GROUND CABLE WITH CONNECTORS BETWEEN THE HANDHOLE COVER AND HANDHOLE FRAME.

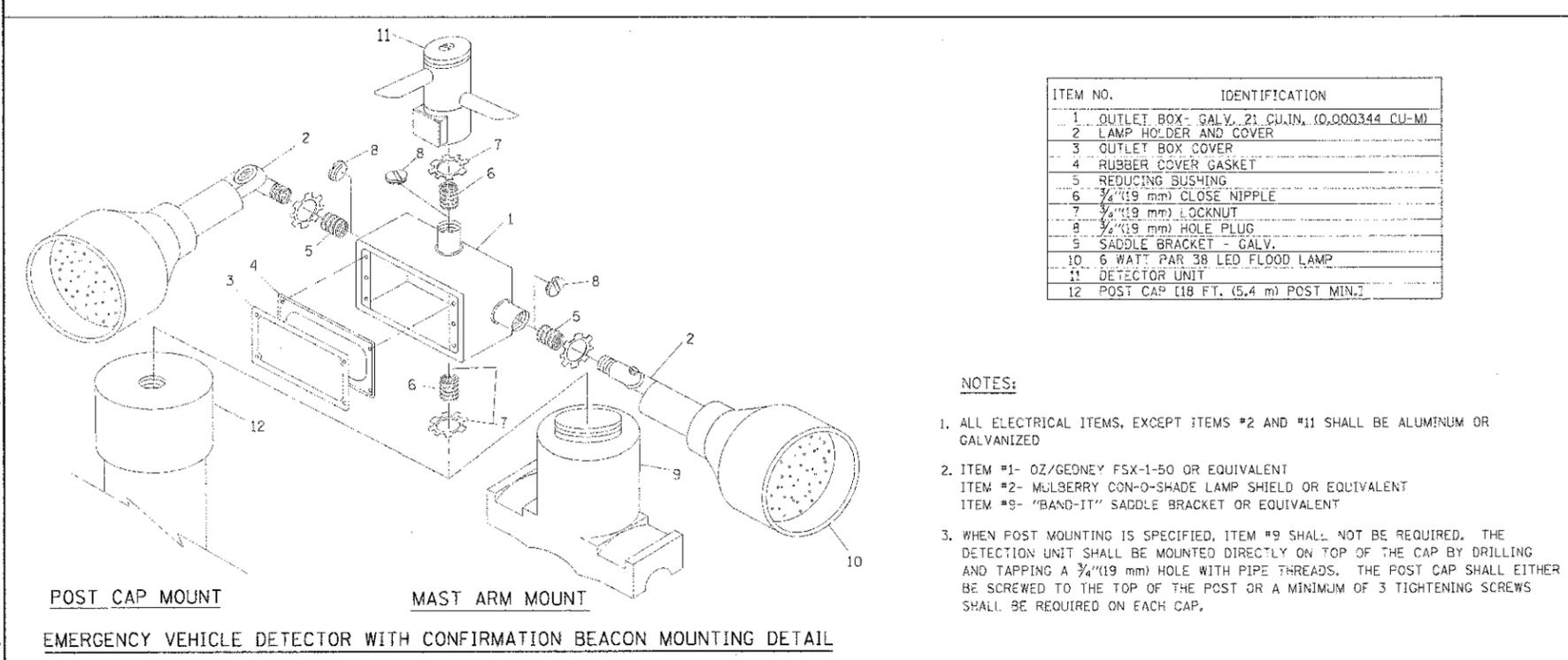
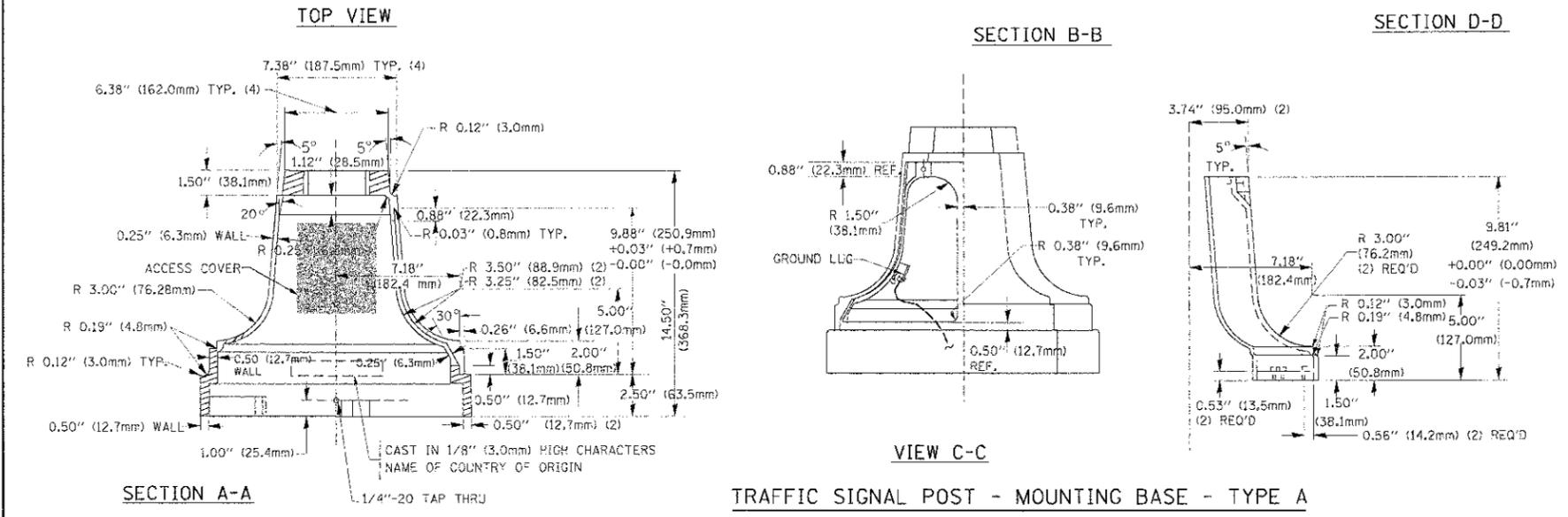
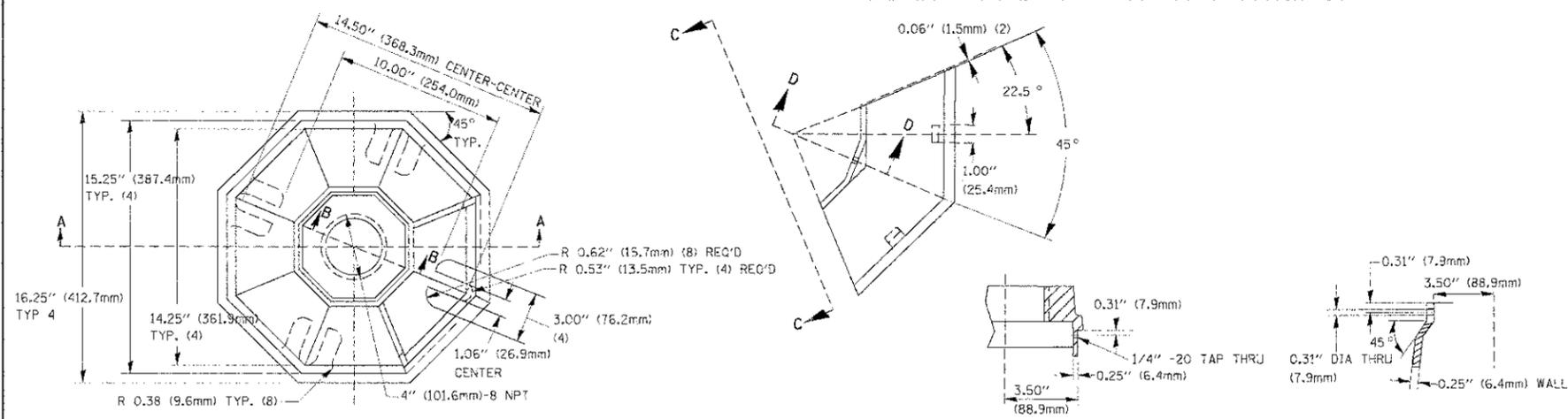


- NOTES:**
- ALL CLAMPS SHALL BE BRONZE OR COPPER, UL APPROVED.
  - GROUND CABLE SHALL BE LOOPED OVER HOOKS IN THE HANDHOLES  
 6.5' (2.0m) SLACK SHALL BE PROVIDED IN SINGLE HANDHOLES  
 13' (4.0m) OF SLACK SHALL BE PROVIDED IN DOUBLE HANDHOLES.  
 5' (1.4m) OF SLACK SHALL BE PROVIDED BETWEEN FRAME AND COVER.



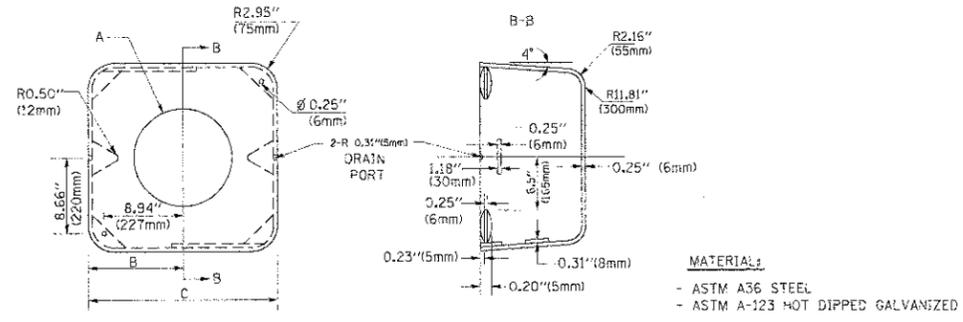
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 USER NAME = bck  
 PLOT SCALE = 1/8" = 1'-0"  
 PLOT DATE = 5/11/2012

DESIGNED - DAD	REVISD -	<b>STATE OF ILLINOIS</b> <b>DEPARTMENT OF TRANSPORTATION</b>	<b>DISTRICT ONE</b>		F.A.P. RTE. 0336	SECTION 00-00259-00-BT	COUNTY KANE	TOTAL SHEETS 79	SHEET NO. 61
DRAWN - BCK	REVISD -		<b>STANDARD TRAFFIC SIGNAL DESIGN DETAILS</b>		<b>TS-05</b>		<b>CONTRACT NO. 63667</b>		
CHECKED - DAD	REVISD -		SCALE: NONE		SHEET NO. 3 OF 6 SHEETS		STA. TO STA.		FED. ROAD DIST. NO. 1 ILLINOIS FED. AID PROJECT
DATE - 10-28-09	REVISD -		SCALE: NONE		SHEET NO. 3 OF 6 SHEETS		STA. TO STA.		FED. ROAD DIST. NO. 1 ILLINOIS FED. AID PROJECT



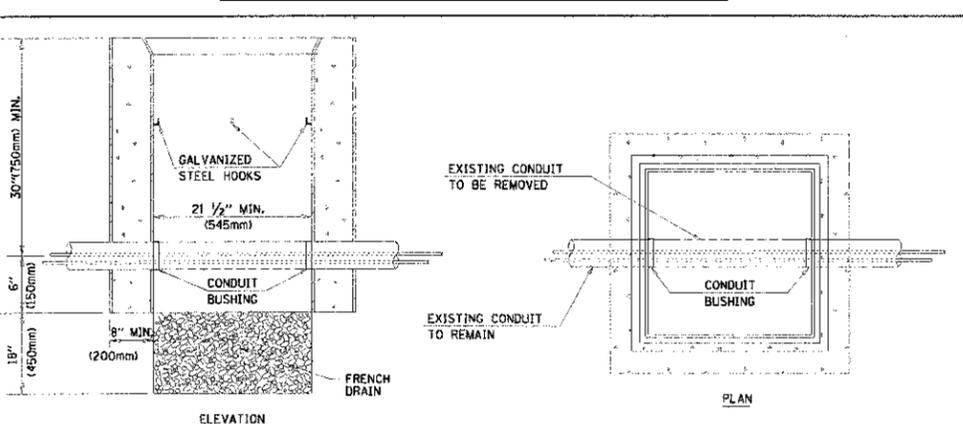
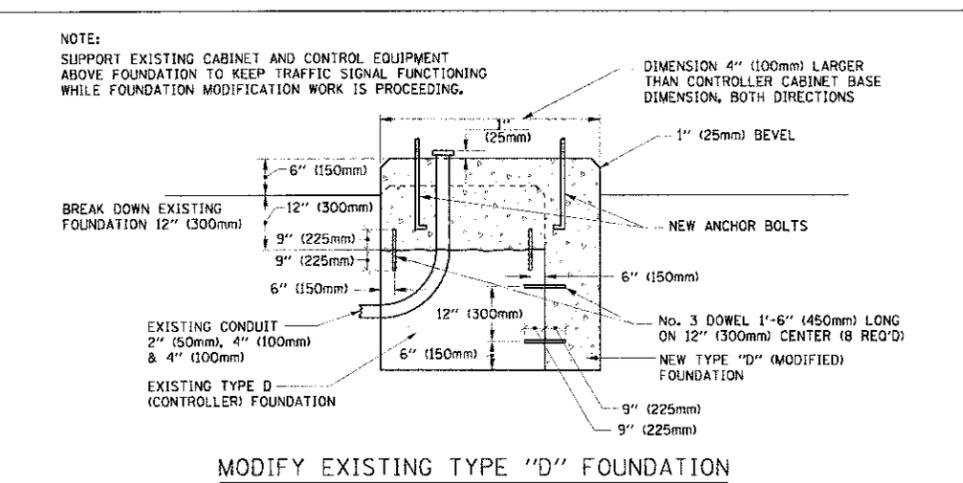
ITEM NO.	IDENTIFICATION
1	OUTLET BOX - GALV. 21 CU. IN. (0,000344 CU-M)
2	LAMP HOLDER AND COVER
3	OUTLET BOX COVER
4	RUBBER COVER GASKET
5	REDUCING BUSHING
6	1/4\" (19 mm) CLOSE NIPPLE
7	1/4\" (19 mm) LOCKNUT
8	1/4\" (19 mm) HOLE PLUG
9	SADDLE BRACKET - GALV.
10	6 WATT PAR 38 LED FLOOD LAMP
11	DETECTOR UNIT
12	POST CAP [18 FT. (5.4 m) POST MIN.]

- NOTES:**
- ALL ELECTRICAL ITEMS, EXCEPT ITEMS #2 AND #11 SHALL BE ALUMINUM OR GALVANIZED
  - ITEM #1- OZ/GEORNEY FSX-1-50 OR EQUIVALENT  
ITEM #2- MULBERRY CON-O-SHADE LAMP SHIELD OR EQUIVALENT  
ITEM #9- "BAND-IT" SADDLE BRACKET OR EQUIVALENT
  - WHEN POST MOUNTING IS SPECIFIED, ITEM #9 SHALL NOT BE REQUIRED. THE DETECTION UNIT SHALL BE MOUNTED DIRECTLY ON TOP OF THE CAP BY DRILLING AND TAPPING A 3/4\" (19 mm) HOLE WITH PIPE THREADS. THE POST CAP SHALL EITHER BE SCREWED TO THE TOP OF THE POST OR A MINIMUM OF 3 TIGHTENING SCREWS SHALL BE REQUIRED ON EACH CAP.

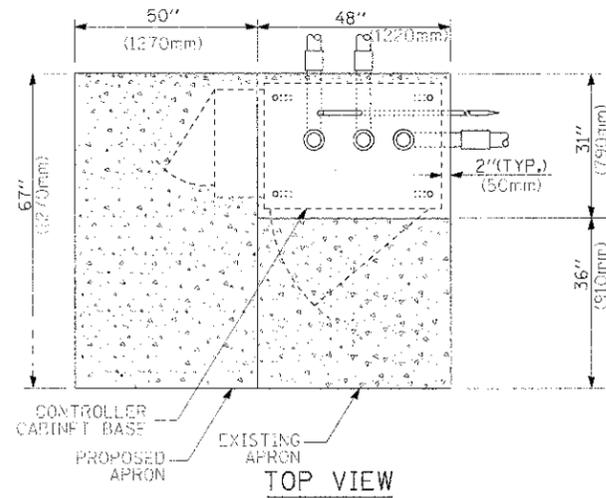


A	B	C	HEIGHT	WEIGHT
VARIABLES	9.5\" (241mm)	19\" (483mm)	7\" (178mm) - 12\" (300mm)	53 lbs (24kg)
VARIABLES	10.75\" (273mm)	21.5\" (546mm)	7\" (178mm) - 12\" (300mm)	68 lbs (31 kg)
VARIABLES	13.0\" (330mm)	26\" (660mm)	7\" (178mm) - 12\" (300mm)	81 lbs (37 kg)
VARIABLES	18.5\" (470mm)	37\" (940mm)	7\" (178mm) - 12\" (300mm)	126 lbs (57 kg)

- NOTES:**
- DIMENSION "A" IS EQUAL TO THE DIAMETER OF THE MAST ARM POLE AT THE TOP OF THE SHROUD. THE SHROUD SHALL BE TIGHT TO THE MAST ARM POLE.
  - THE SUPPLIER SHALL VERIFY THE ABOVE DIMENSIONS BASED ON MAST ARM REQUIREMENTS.
  - THE HEIGHT OF THE SHROUD SHALL COVER THE ANCHOR BOLTS, NUTS AND MAST ARM POLE BASE.

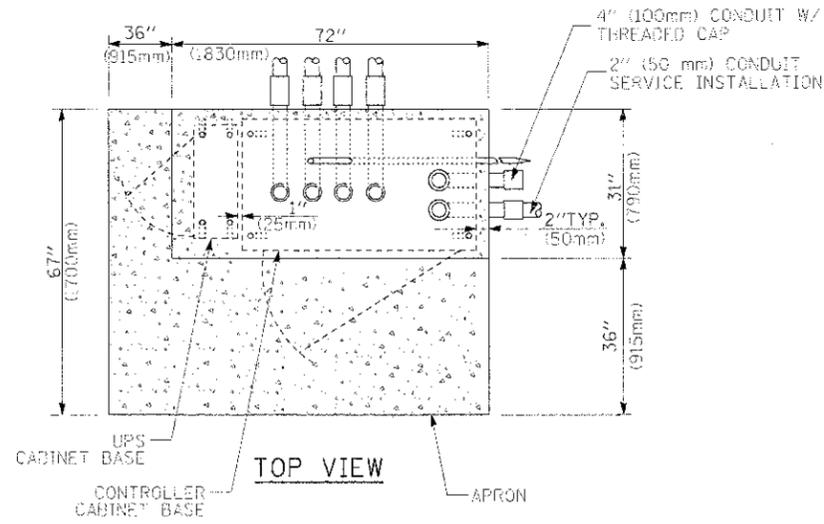
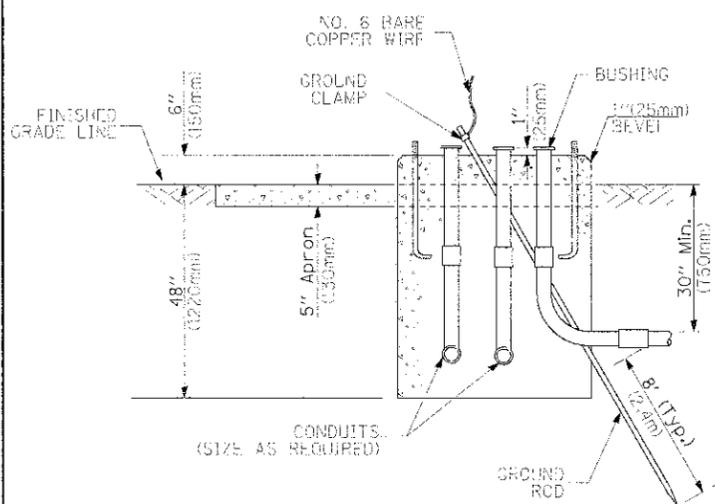


- NOTES:**
- HANDHOLE CONSTRUCTED PER STATE STANDARD 814001.
  - REMOVAL OF THE EXISTING CONDUIT FROM THE HANDHOLE AND THE INSTALLATION OF THE CONDUIT BUSHINGS SHALL BE INCIDENTAL TO THE HANDHOLE.



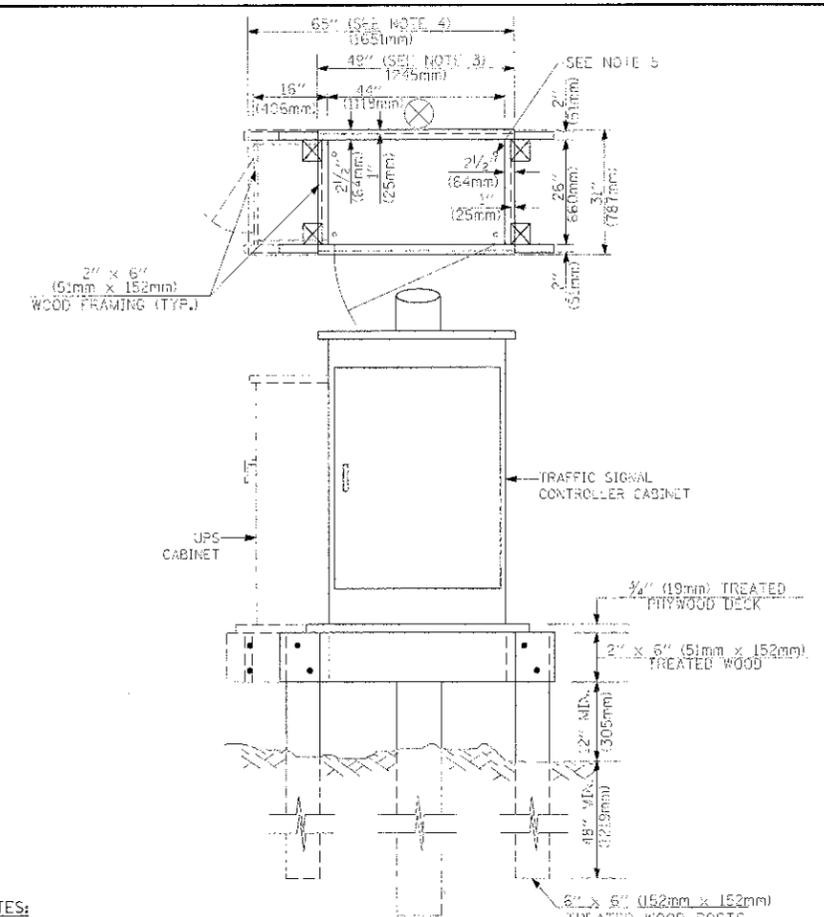
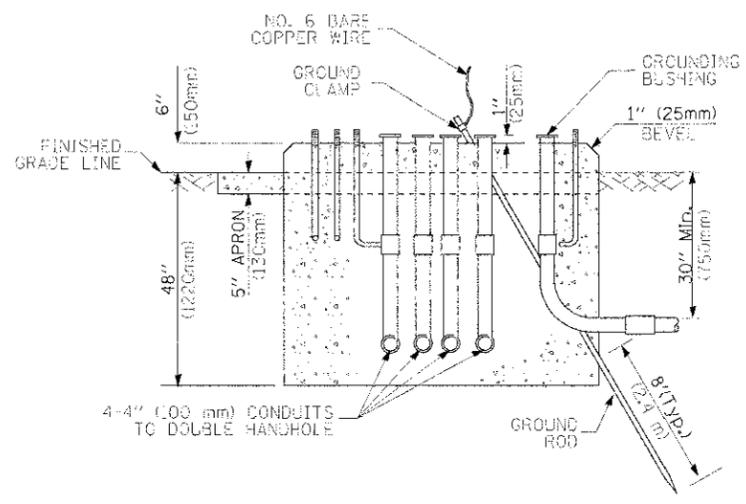
**TOP VIEW**

**TYPE D  
FOR GROUND MOUNTED  
CONTROLLER CABINET  
AND UPS BATTERY CABINET**



**TOP VIEW**

**TYPE C  
FOR GROUND MOUNTED  
CONTROLLER CABINET  
AND UPS BATTERY CABINET**



**TEMPORARY SIGNAL CONTROLLER  
WOOD SUPPORT PLATFORM**

**NOTES:**

1. BASED ON CONTROLLER CABINET TYPE IV WITH BASE DIMENSIONS OF 26" x 44" (660mm x 1118mm). ADJUST PLATFORM SIZE TO FIT CABINET BASE DIMENSIONS BEING SUPPLIED.
2. BASED ON UNINTERRUPTIBLE POWER SUPPLY CABINET WITH BASE DIMENSIONS OF 16" x 25" (406mm x 635mm). ADJUST PLATFORM SIZE TO FIT CABINET BASE DIMENSIONS BEING SUPPLIED.
3. PLATFORM SIZE FOR CONTROLLER CABINET TYPE IV.
4. PLATFORM SIZE FOR CONTROLLER CABINET TYPE IV AND UNINTERRUPTIBLE POWER SUPPLY CABINET.
5. DRILLED HOLES THROUGH THE PLATFORM BASE TO MATCH THE CONTROLLER CABINET BOLT TEMPLATE. FASTEN THE CONTROLLER CABINET TO THE PLATFORM WITH CARRIAGE BOLTS, WASHERS AND NUTS.
6. FASTEN ALL SUPPORT WOOD FRAMING TO THE WOOD POSTS WITH 2 LAG SCREWS FOR EACH CONNECTION.

CABLE SLACK LENGTH	FEET	METER
HANDHOLE	6.5	2.0
DOUBLE HANDHOLE	13.0	4.0
SIGNAL POST	2.0	0.6
MAST ARM	2.0	0.6
CONTROLLER CABINET	1.5	0.5
FIBER OPTIC AT CABINET	13.0	4.0
ELECTRIC SERVICE AT (CABINET OR SERVICE LOCATION)	1.5	0.5
GROUND CABLE (SIGNAL POST, MAST ARM, CABINET)	1.5	0.5
GROUND CABLE (BETWEEN FRAME AND COVER)	5.0	1.6

**CABLE SLACK**

VERTICAL CABLE LENGTH	FEET	METER
MAST ARM POLE (MAST ARM MOUNTED SIGNAL HEAD) (L = MAST ARM LENGTH - DISTANCE TO SIGNAL HEAD FROM END OF ARM)	20.0+L	6.0+L
BRACKET MOUNTED (MAST ARM POLE OR SIGNAL POLE)	13.0	4.0
PEDESTRIAN PUSH BUTTON	6.0	2.0
SERVICE INSTALLATION POLE MOUNT TO SERVICE DROP	13.5	4.1
SERVICE INSTALLATION POLE MOUNT TO GROUND	13.5	4.1
SERVICE INSTALLATION GROUND MOUNT	6.0	2.0
FOUNDATION (SIGNAL POST, MAST ARM POLE, CONTROLLER CABINET, SERVICE-GROUND MOUNT)	3.0	1.0

**VERTICAL CABLE LENGTH**

FOUNDATION	DEPTH
TYPE A - Signal Post	4'-0" (1.2m)
TYPE C - CONTROLLER W/ UPS	4'-0" (1.2m)
TYPE D - CONTROLLER	4'-0" (1.2m)
SERVICE INSTALLATION, GROUND MOUNT, TYPE A - SQUARE	4'-0" (1.2m)

**DEPTH OF FOUNDATION**

MAST ARM LENGTH	FOUNDATION DEPTH	FOUNDATION DIAMETER	SPIRAL DIAMETER	QUANTITY OF REBARS	SIZE OF REBARS
Less than 30' (9.1 m)	10'-0" (3.0 m)	30" (750mm)	24" (600mm)	8	6(19)
Greater than or equal to 30' (9.1 m) and less than 40' (12.2 m)	13'-6" (4.1 m)	30" (750mm)	24" (600mm)	8	6(19)
Greater than or equal to 40' (12.2 m) and less than 50' (15.2 m)	11'-0" (3.4 m)	36" (900mm)	30" (750mm)	12	7(22)
Greater than or equal to 50' (15.2 m) and up to 55' (16.8 m)	13'-0" (4.0 m)	36" (900mm)	30" (750mm)	12	7(22)
Greater than or equal to 55' (16.8 m) and less than 65' (19.8 m)	15'-0" (4.6 m)	36" (900mm)	30" (750mm)	12	7(22)
Greater than or equal to 65' (19.8 m) and up to 75' (22.9 m)	21'-0" (6.4 m)	42" (1060mm)	36" (900mm)	16	8(25)
Greater than or equal to 75' (22.9 m)	25'-0" (7.6 m)	42" (1060mm)	36" (900mm)	16	8(25)

**DEPTH OF MAST ARM FOUNDATIONS, TYPE E**

**NOTES:**

1. These foundation depths are for sites which have cohesive soils (clayey silt, sandy clay, etc.) along the length of the shaft, with an average unconfined compressive strength (Qu) > 1.0 tsf (100 kpa). This strength shall be verified by boring data prior to construction or with testing by the Engineer during foundation drilling. The Bureau of Bridges & Structures should be contacted for a revised design if other conditions are encountered.
2. Combination mast arm assemblies under 55 feet (16.8 m) shall use 36" (900 mm) diameter foundations.
3. Combination mast arm assemblies under 56 feet (16.8 m) through 75 feet (22.9 m) shall use 42" (1060 mm) diameter foundations.
4. For mast arm assemblies with dual arms refer to state standard 878001.

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# TRAFFIC SIGNAL LEGEND

ITEM	REMOVAL	EXISTING	PROPOSED	ITEM	REMOVAL	EXISTING	PROPOSED	ITEM	REMOVAL	EXISTING	PROPOSED
CONTROLLER CABINET				EMERGENCY VEHICLE LIGHT DETECTOR				ELECTRIC CABLE IN CONDUIT, TRACER, NO. 14 1/C, UNLESS NOTED OTHERWISE			
RAILROAD CONTROL CABINET				CONFIRMATION BEACON				COAXIAL CABLE			
COMMUNICATIONS CABINET				HANDHOLE				VENDOR CABLE FOR CAMERA			
MASTER CONTROLLER				HEAVY DUTY HANDHOLE				COPPER INTERCONNECT CABLE, NO. 18 3 PAIR TWISTED, SHIELDED			
MASTER MASTER CONTROLLER				DOUBLE HANDHOLE				FIBER OPTIC CABLE NO. 62.5/125, MM12F			
UNINTERRUPTIBLE POWER SUPPLY				JUNCTION BOX				FIBER OPTIC CABLE NO. 62.5/125, MM12F SM12F			
SERVICE INSTALLATION, (P) POLE OR (G) GROUND MOUNT				CALVANIZED STEEL CONDUIT IN TRENCH (T) OR PUSHED (P)				FIBER OPTIC CABLE NO. 62.5/125, MM12F SM12F			
TELEPHONE CONNECTION (P) POLE OR (G) GROUND MOUNT				TEMPORARY SPAN WIRE, TETHER WIRE, AND CABLE				FIBER OPTIC CABLE NO. 62.5/125, (NUMBER OF FIBERS & TYPE TO BE NOTED ON PLANS)			
STEEL MAST ARM ASSEMBLY AND POLE				COMMON TRENCH			CT	GROUND ROD AT (C) CONTROLLER, (H) HANDHOLE, (P) POST, (M) MAST ARM, OR (S) SERVICE			
ALUMINUM MAST ARM ASSEMBLY AND POLE				COILABLE NONMETALLIC CONDUIT (EMPTY)			CNC	CONTROLLER CABINET AND FOUNDATION TO BE REMOVED			
STEEL COMBINATION MAST ARM ASSEMBLY AND POLE WITH LUMINAIRE				SYSTEM ITEM		S	S	STEEL MAST ARM POLE AND FOUNDATION TO BE REMOVED			
STEEL COMBINATION MAST ARM ASSEMBLY AND POLE WITH PTZ CAMERA				INTERSECTION ITEM		I	JP	ALUMINUM MAST ARM POLE AND FOUNDATION TO BE REMOVED			
SIGNAL POST				REMOVE ITEM	R			STEEL COMBINATION MAST ARM ASSEMBLY AND POLE WITH LUMINAIRE AND FOUNDATION TO BE REMOVED			
TEMPORARY WOOD POLE (CLASS 5 OR BETTER) 45 FOOT (13.7m) MINIMUM				RELOCATE ITEM	RL			SIGNAL POST AND FOUNDATION TO BE REMOVED			
GUY WIRE				ABANDON ITEM	A			INTERSECTION & SAMPLING (SYSTEM) DETECTOR			
SIGNAL HEAD				12" (300mm) TRAFFIC SIGNAL SECTION				SAMPLING (SYSTEM) DETECTOR			
SIGNAL HEAD CONSTRUCTION STAGES (NUMBERS INDICATE THE CONSTRUCTION STAGE)				12" (300mm) RED WITH 8" (200mm) YELLOW AND GREEN TRAFFIC SIGNAL FACE				EXISTING INTERSECTION LOOP DETECTOR			
SIGNAL HEAD WITH BACKPLATE				SIGNAL FACE				PROPOSED INTERSECTION AND SAMPLING (SYSTEM) DETECTOR			
SIGNAL HEAD OPTICALLY PROGRAMMED				SIGNAL FACE WITH BACKPLATE, "P" INDICATES PROGRAMMED HEAD				EXISTING PREFORMED INTERSECTION LOOP DETECTOR			
FLASHER INSTALLATION (S DENOTES SOLAR POWER)								PROPOSED INTERSECTION AND SAMPLING (SYSTEM) DETECTOR			
PEDESTRIAN SIGNAL HEAD								PREFORMED INTERSECTION AND SAMPLING (SYSTEM) DETECTOR			
PEDESTRIAN PUSHBUTTON DETECTOR								PREFORMED SAMPLING (SYSTEM) DETECTOR			
ACCESSIBLE PEDESTRIAN PUSHBUTTON DETECTOR											
ILLUMINATED SIGN "NO LEFT TURN"											
ILLUMINATED SIGN "NO RIGHT TURN"											
DETECTOR LOOP, TYPE I											
PREFORMED DETECTOR LOOP											
MICROWAVE VEHICLE SENSOR											
VIDEO DETECTION CAMERA											
VIDEO DETECTION ZONE											
PAN, TILT, ZOOM CAMERA											
WIRELESS DETECTOR SENSOR											
WIRELESS ACCESS POINT											

## RAILROAD SYMBOLS

	EXISTING	PROPOSED
RAILROAD CONTROL CABINET		
RAILROAD CANTILEVER MAST ARM		
FLASHING SIGNAL		
CROSSING GATE		
CROSSBUCK		

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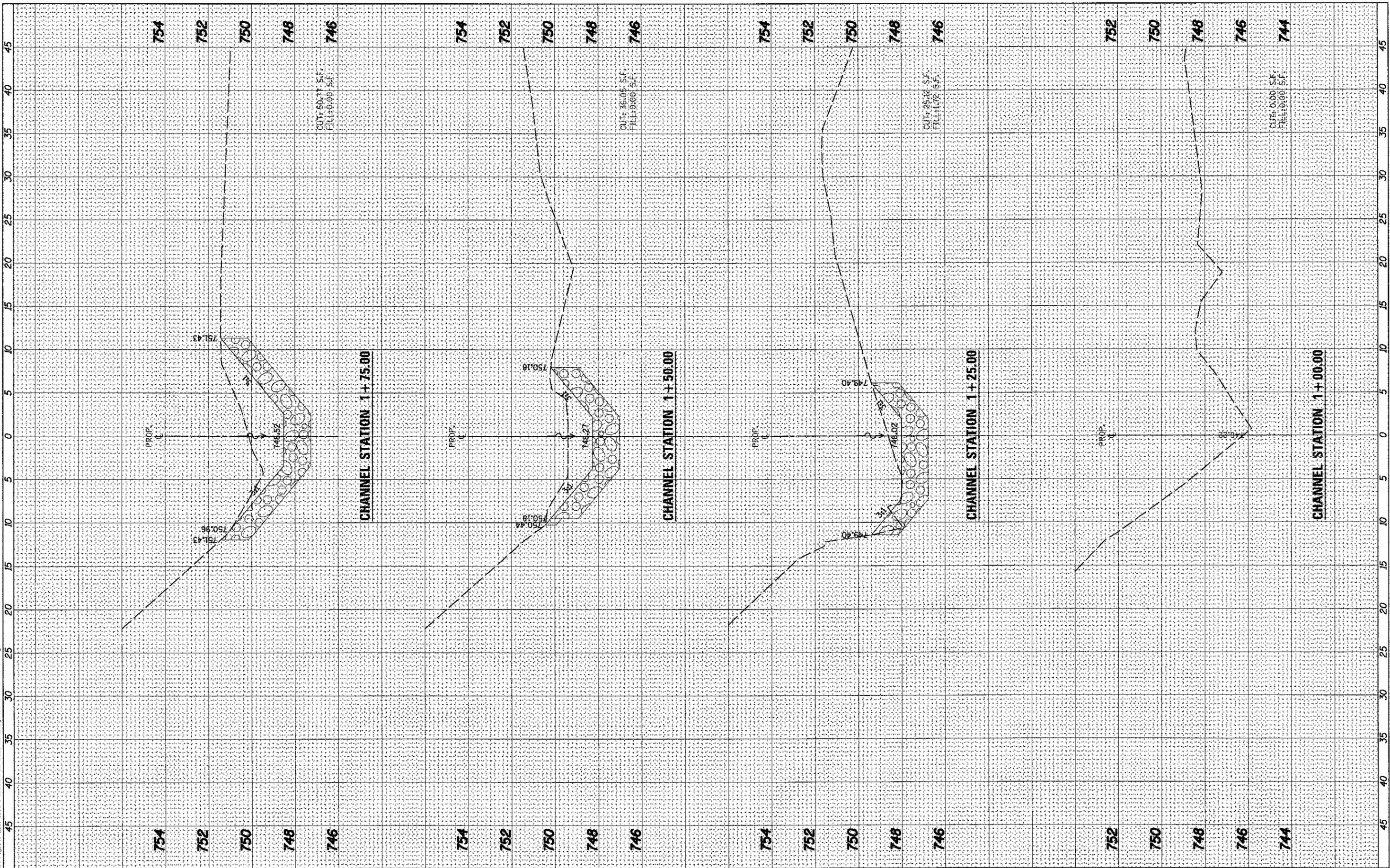
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FINAL SURVEY	BY	DATE
NO. 1000000000		

ORIGINAL SURVEY	BY	DATE
NO. 1000000000		

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 116 West Main Street, Suite 201  
 St. Charles, Illinois 60174

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DESIGNED -
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CHECKED -
DATE -
PLOT SCALE = AS SHOWN
PLOT DATE = 5/11/2012

DESIGNED -	REVISED -
DRAWN -	REVISED -
CHECKED -	REVISED -
DATE -	REVISED -

**STATE OF ILLINOIS  
DEPARTMENT OF TRANSPORTATION**

<b>CROSS SECTIONS BOX CULVERT &amp; CHANNEL</b>			
SCALE: AS SHOWN	SHEET NO. OF 79 SHEETS	STA. TO STA.	

F.A.P. RTE. 0336	SECTION 00-00259-00-BT	COUNTY KANE	TOTAL SHEETS 79	SHEET NO. 66
CONTRACT NO. 63667				
FED. ROAD DIST. NO. ILLINOIS FED. AID PROJECT				

FINAL SURVEY	BY	DATE
SURVEY NO.		
NOTE BOOK NO.		
AREAS CHECKED		

ORIGINAL SURVEY	BY	DATE
PLOTTED		
AREAS CHECKED		

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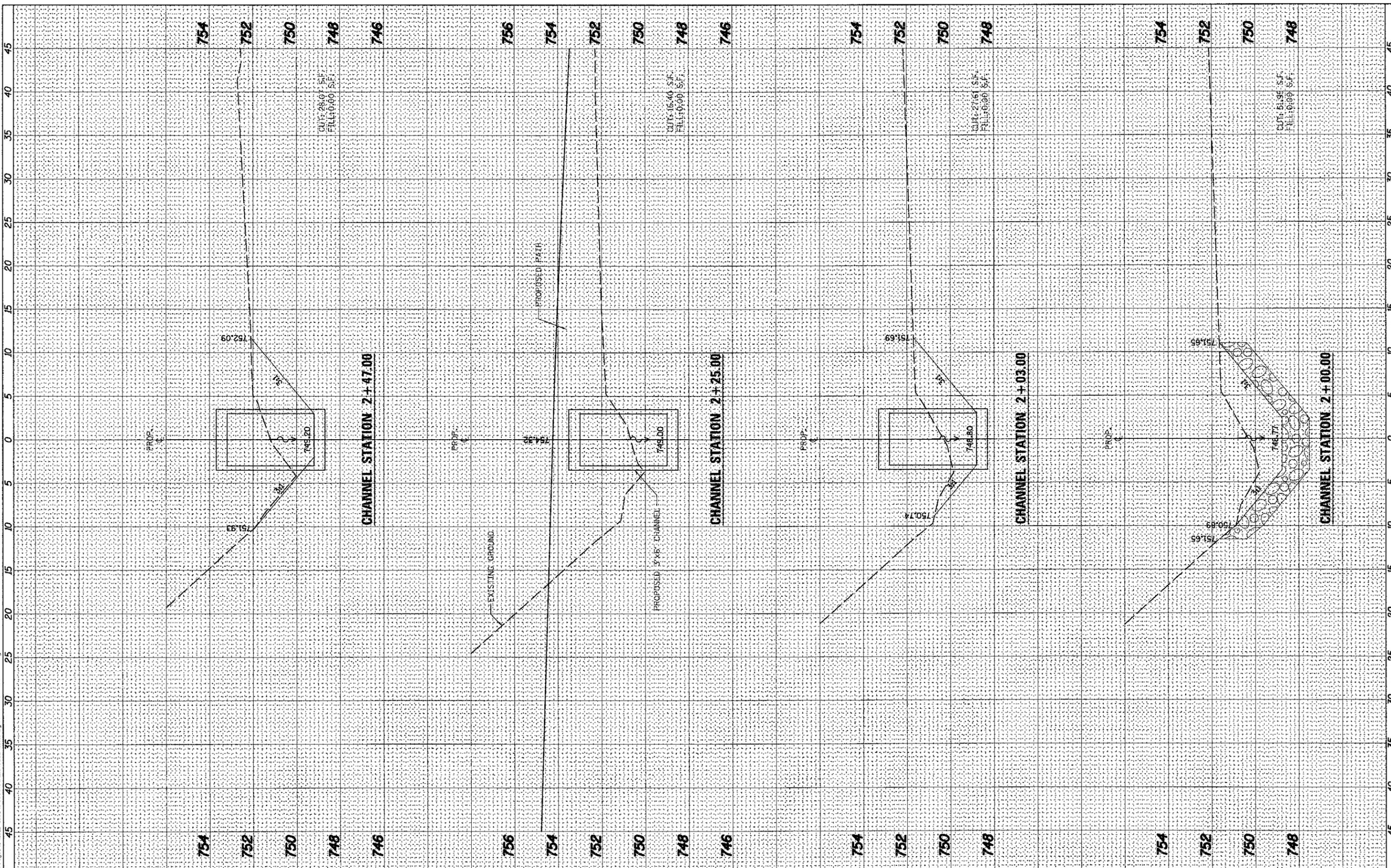
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DEPARTMENT OF TRANSPORTATION**

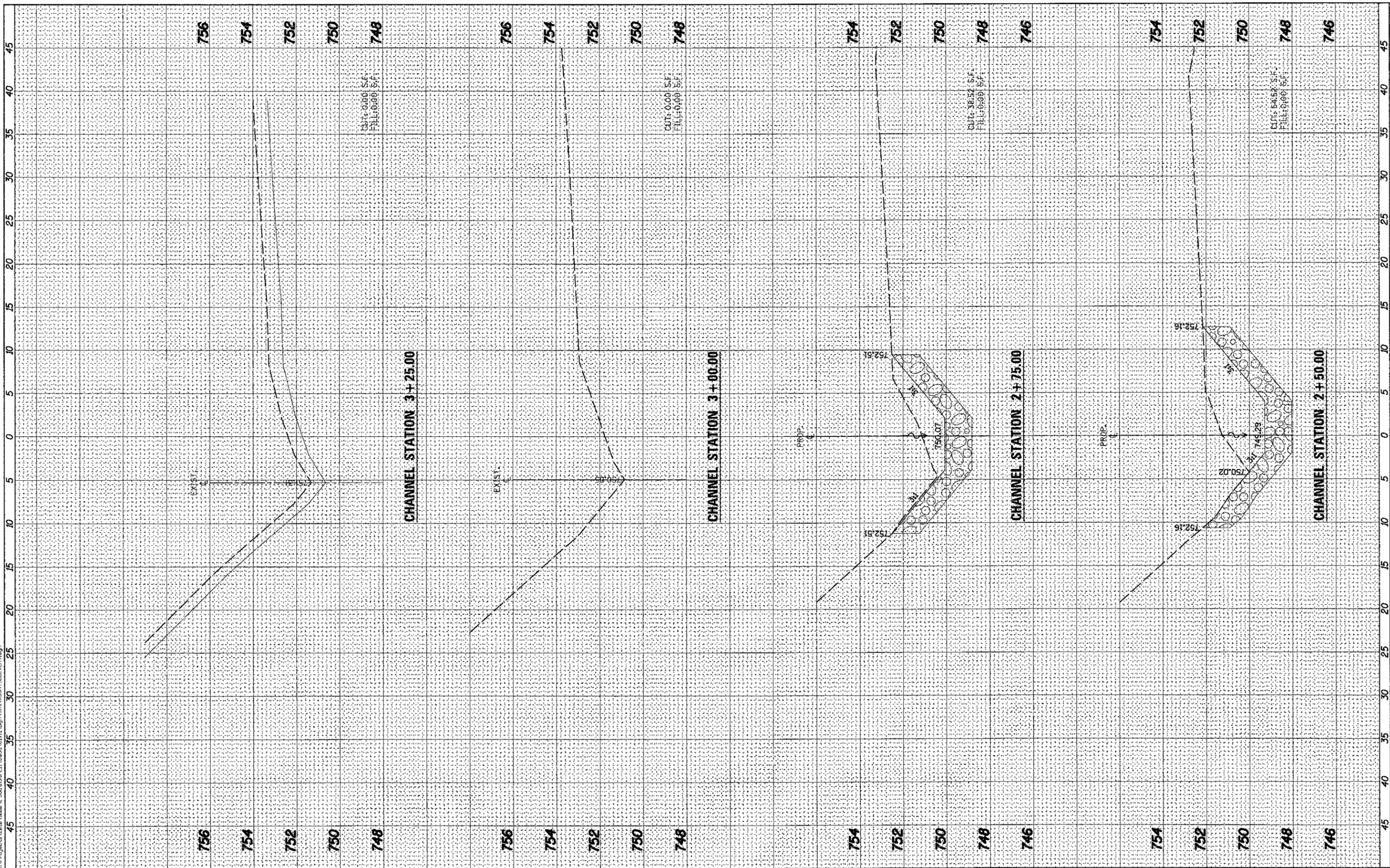
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SCALE: AS SHOWN	SHEET NO.	OF 79 SHEETS	STA. TO STA.

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
0336	00-00259-00-BT	KANE	79	67
CONTRACT NO. 63667				
FED. ROAD DIST. NO. ILLINOIS FED. AID PROJECT				



FINAL SURVEY	DATE
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PLOTTED	
NOTE BOOK	
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ORIGINAL SURVEY	DATE
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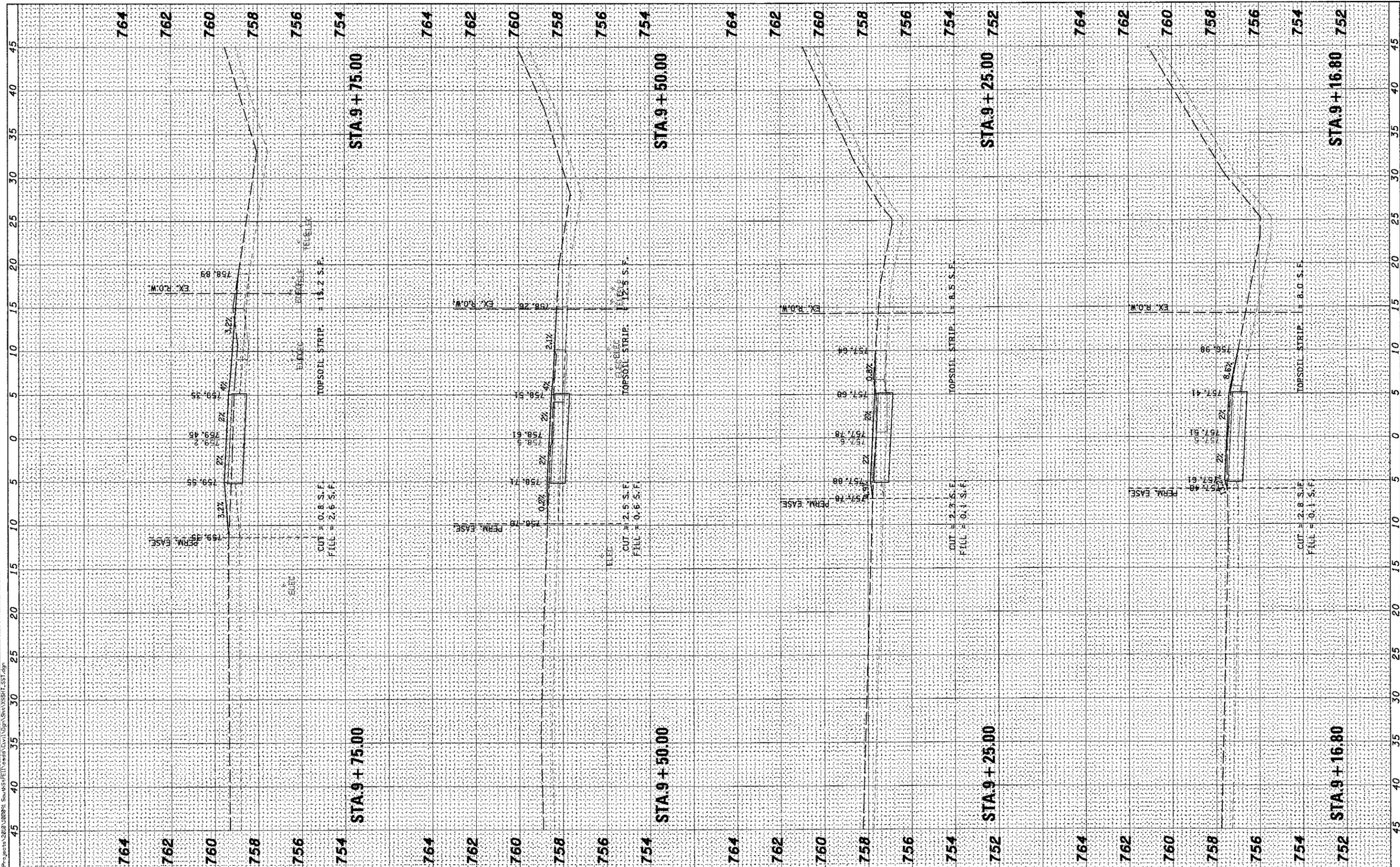
STATE OF ILLINOIS  
 DEPARTMENT OF TRANSPORTATION

CROSS SECTIONS  
 BOX CULVERT & CHANNEL  
 SCALE: AS SHOWN SHEET NO. OF 79 SHEETS STA. TO STA.

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
0336	00-00259-00-BT	KANE	79	68
CONTRACT NO. 63667				
FED. ROAD DIST. NO. ILLINOIS FED. AID PROJECT				

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TEMPLATE	
NOTE BOOK	
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NO.	



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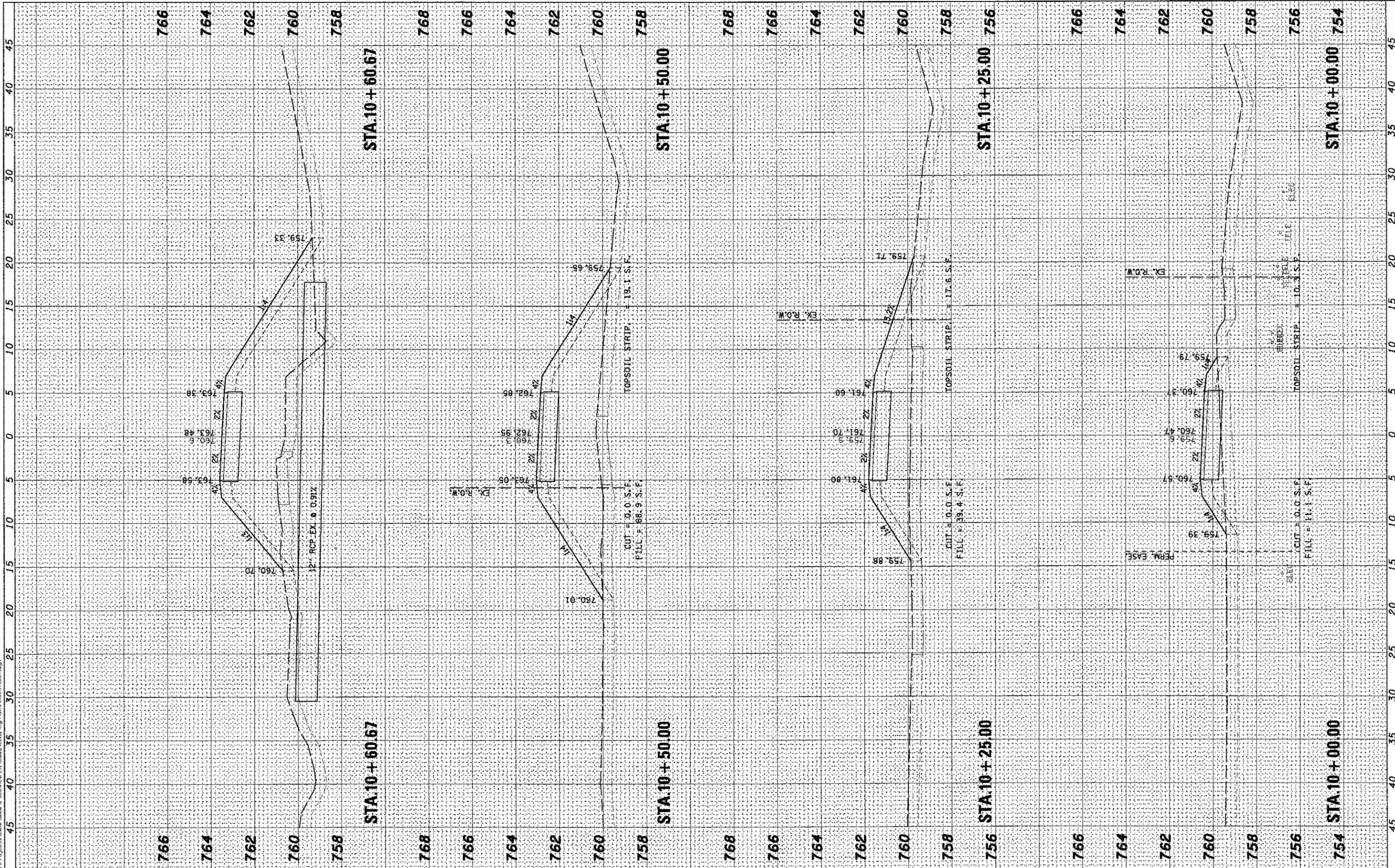
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CONTRACT NO. 63667				
FED. ROAD DIST. NO. ILLINOIS FED. AID PROJECT				

FINAL SURVEY	BY	DATE
SURVEYED		
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ORIGINAL SURVEY	BY	DATE
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USER NAME = nparriss  
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DATE - -  
PLOT SCALE = AS SHOWN  
PLOT DATE = 5/11/2012

DESIGNED - -  
REVISIED - -

**STATE OF ILLINOIS**  
**DEPARTMENT OF TRANSPORTATION**

**CROSS SECTIONS**  
**SOUTH STREET TRAIL**

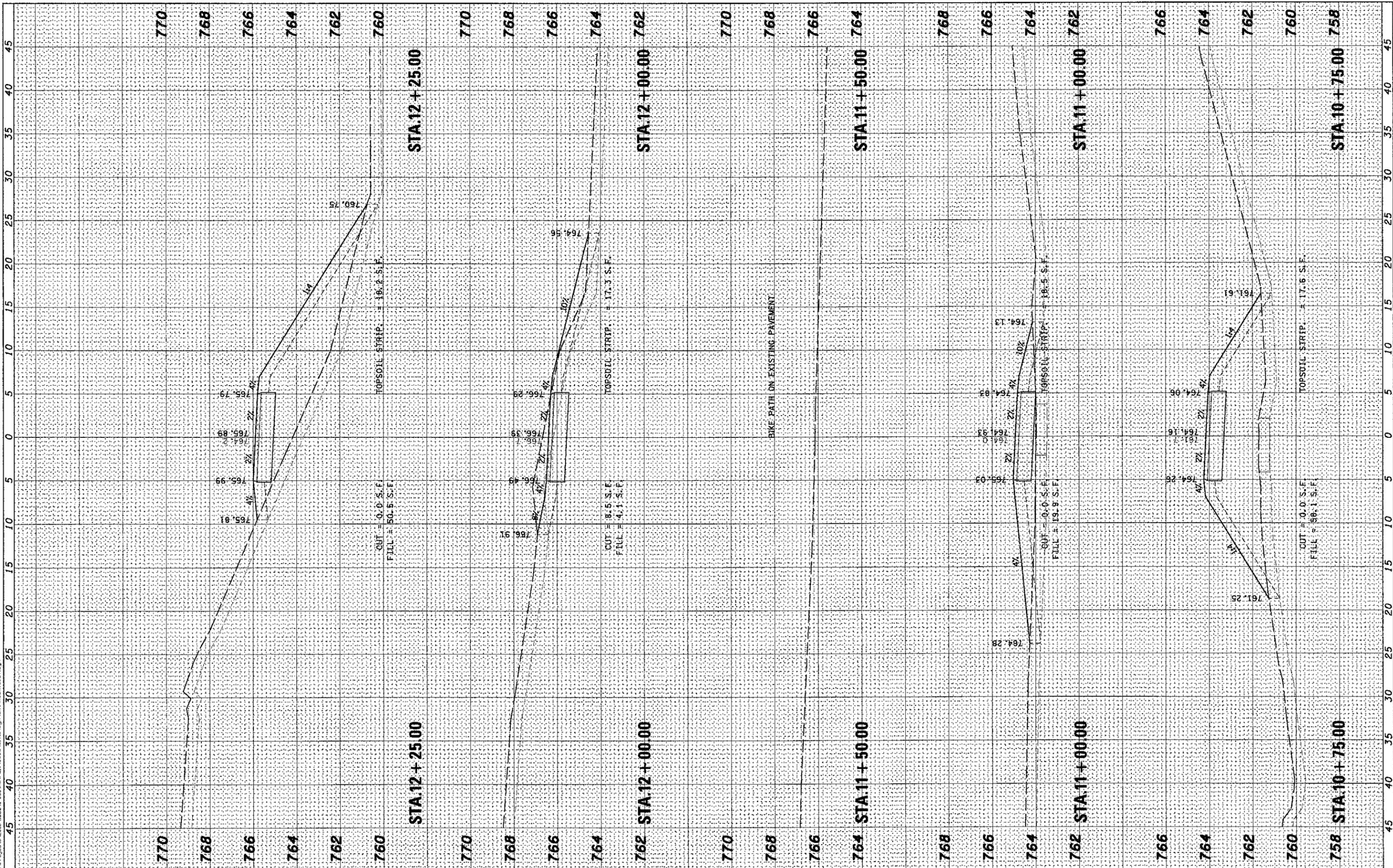
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0336	00-00259-00-BT	KANE	79	70
CONTRACT NO.63667				
FED. ROAD DIST. NO.    ILLINOIS FED. AID PROJECT				

FINAL SURVEY	DATE
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NOTE BOOK	
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ORIGINAL SURVEY	DATE
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NOTE BOOK	
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	DATE -	REVISED -

**STATE OF ILLINOIS  
 DEPARTMENT OF TRANSPORTATION**

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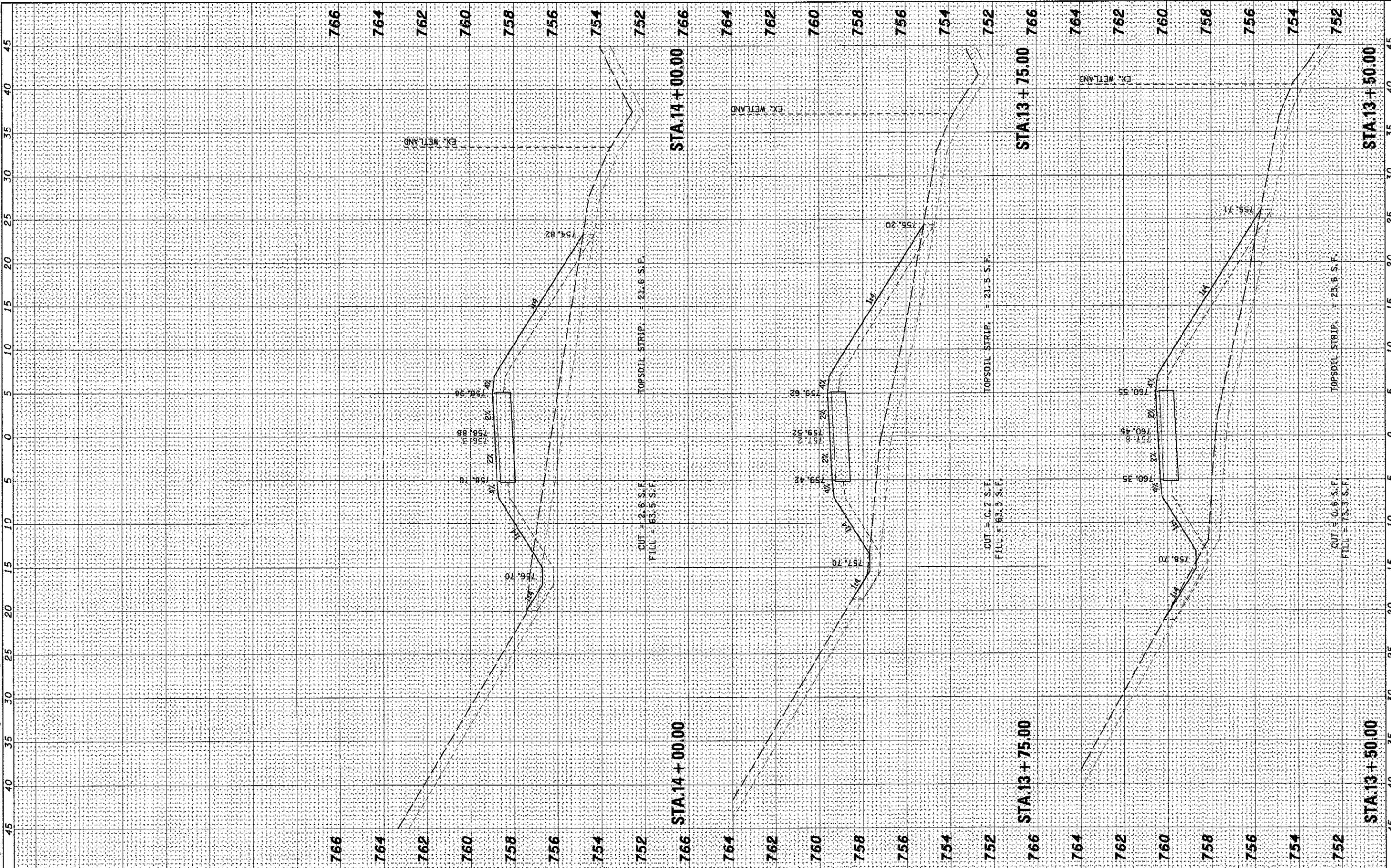
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0336	00-00259-00-BT	KANE	79	71
CONTRACT NO. 63667				
FED. ROAD DIST. NO. [ILLINOIS] FED. AID PROJECT				



FINAL SURVEY	DATE
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ORIGINAL SURVEY	DATE
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	DATE -	REVISED -

**STATE OF ILLINOIS  
 DEPARTMENT OF TRANSPORTATION**

**CROSS SECTIONS  
 SOUTH STREET TRAIL**

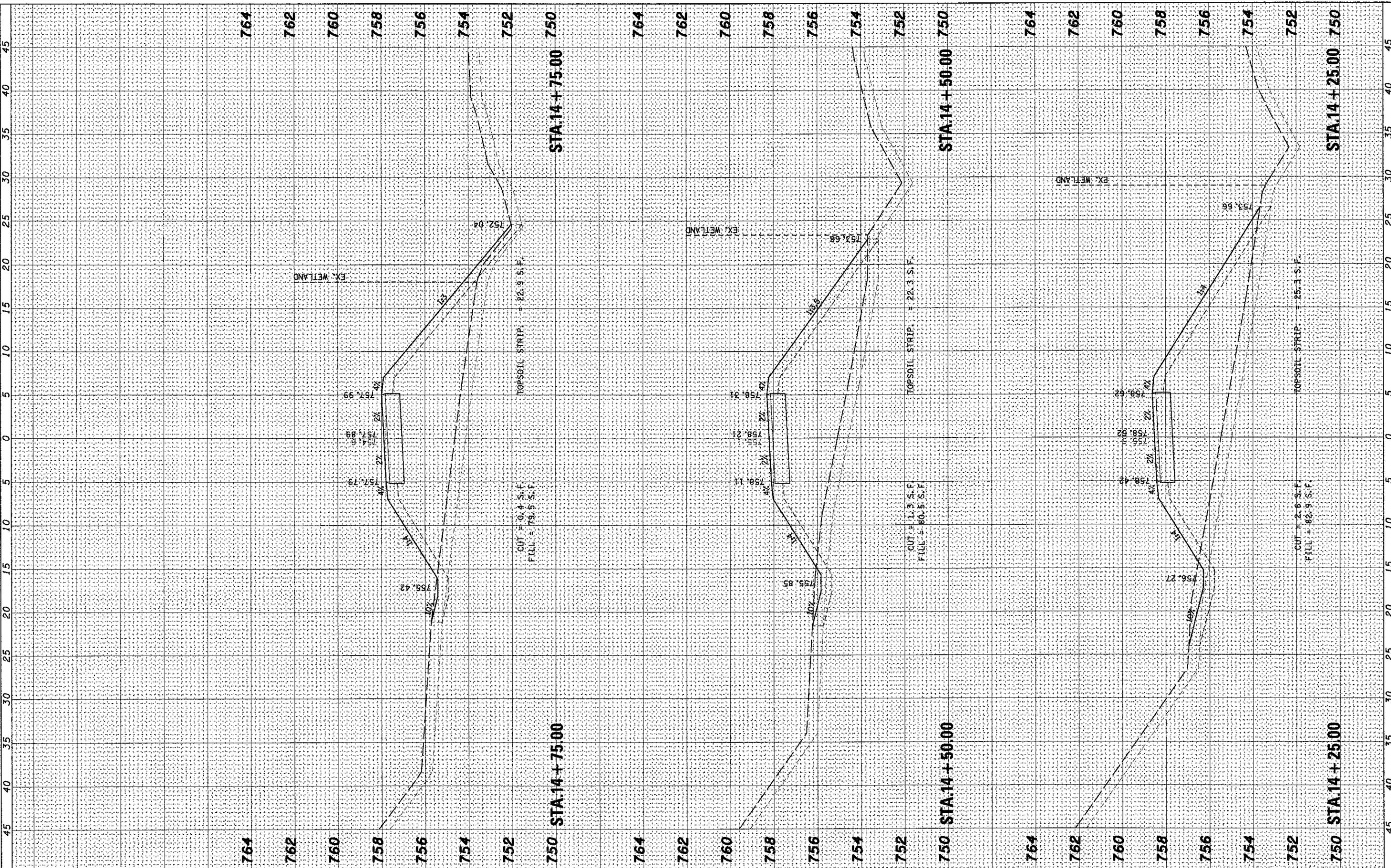
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CONTRACT NO.63667				
ILLINOIS FED. AID PROJECT				

FINAL SURVEY	SURVEYED	BY	DATE
NOTE BOOK	PLOTTED		
AREAS	TEMPLATE		
AREAS CHECKED			

ORIGINAL SURVEY	SURVEYED	BY	DATE
NOTE BOOK	PLOTTED		
AREAS	TEMPLATE		
AREAS CHECKED			

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	DATE -	REVISED -

**STATE OF ILLINOIS  
DEPARTMENT OF TRANSPORTATION**

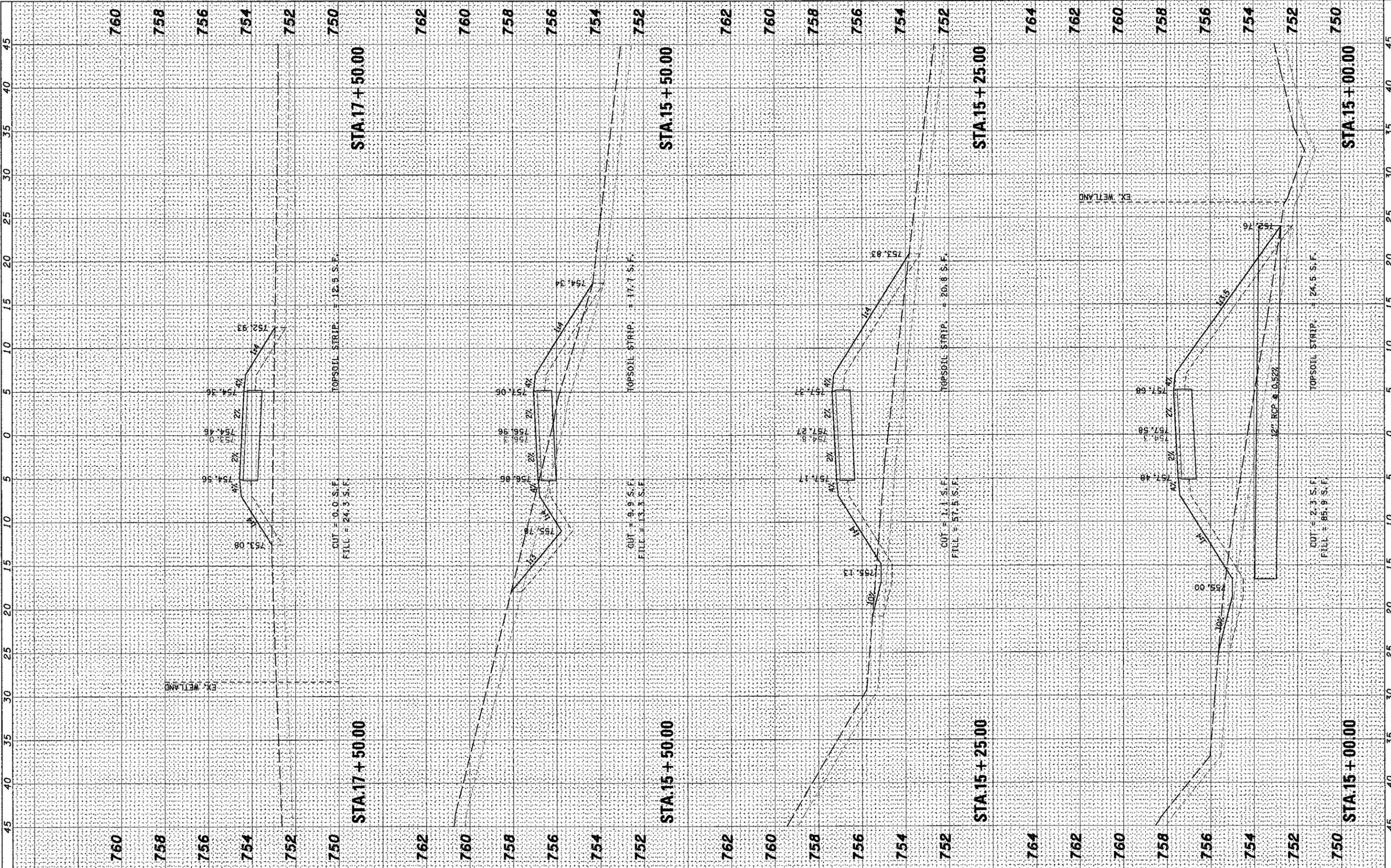
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FED. ROAD DIST. NO.		ILLINOIS FED. AID PROJECT		
CONTRACT NO. 63667				

FINAL SURVEY	DATE
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NOTE BOOK	
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ORIGINAL SURVEY	DATE
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NOTE BOOK	
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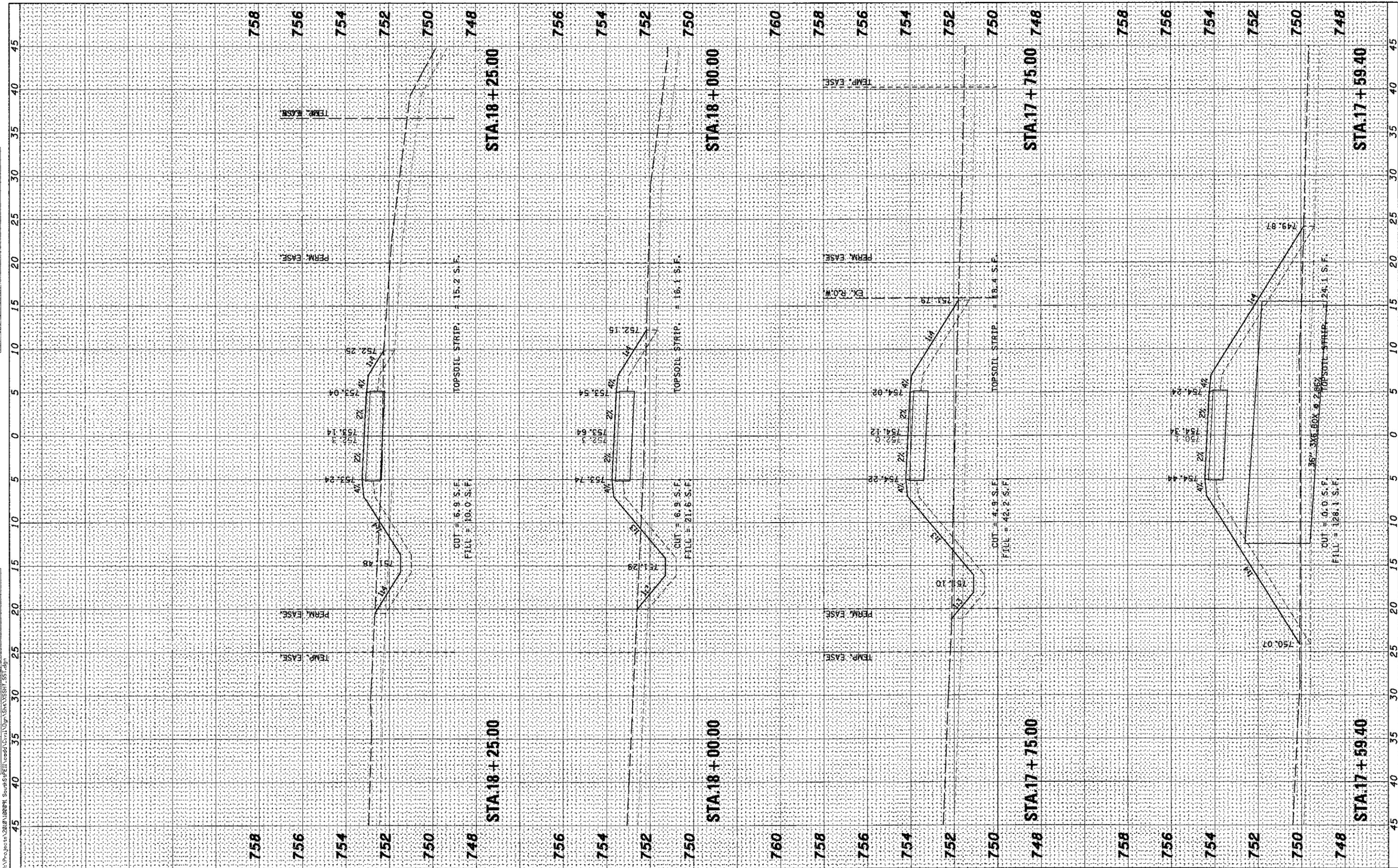
**STATE OF ILLINOIS  
 DEPARTMENT OF TRANSPORTATION**

CROSS SECTIONS	
SOUTH STREET TRAIL	
SCALE: AS SHOWN	SHEET NO. OF 79 SHEETS
STA. 15+00.00	TO STA. 15+75.00

F.A.P. RTEL 0336	SECTION 00-00259-00-BT	COUNTY KANE	TOTAL SHEETS 79	SHEET NO. 75
CONTRACT NO. 63667				
FED. ROAD DIST. NO. ILLINOIS FED. AID PROJECT				

FINAL SURVEY	DATE
SURVEYED	BY
NOTE BOOK	
TEMPLATE	
AREAS CHECKED	

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SURVEYED	BY
NOTE BOOK	
TEMPLATE	
AREAS CHECKED	



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 St. Charles, Illinois 60174

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PLOT SCALE = AS SHOWN	DRAWN -	REVISED -
PLOT DATE = 5/11/2012	CHECKED -	REVISED -
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STATE OF ILLINOIS  
 DEPARTMENT OF TRANSPORTATION

CROSS SECTIONS			
SOUTH STREET TRAIL			
SCALE: AS SHOWN	SHEET NO.	OF 79 SHEETS	STA. 15+81.91 TO STA. 16+50.00

F.A.P. RTE. 0336	SECTION 00-00259-00-BT	COUNTY KANE	TOTAL SHEETS 79	SHEET NO. 76
CONTRACT NO.63667				
FED. ROAD DIST. NO. [ILLINOIS] FED. AID PROJECT				





