

STATE	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
351	537 R-1	COOK	245	3
STA. _____		TO STA. _____		
FED. ROAD DIST. NO. _____		ILLINOIS	FED. AID PROJECT	

CONTRACT # 62880

GENERAL NOTES

- BEFORE STARTING ANY EXCAVATION, THE CONTRACTOR SHALL CALL J.U.L.I.E. (1-800-892-0123) FOR FIELD LOCATIONS OF BURIED ELECTRIC, TELEPHONE AND GAS FACILITIES. (48 HOURS NOTIFICATION IS REQUIRED).
- THE CONTRACTOR SHALL COORDINATE CONSTRUCTION ACTIVITIES WITH UTILITY COMPANIES, MUNICIPALITIES AND ADJACENT CONTRACTORS.
- THE CONTRACTOR WILL NOT BE ALLOWED TO SET UP A YARD OR FIELD OFFICE ON STATE PROPERTY WITHOUT WRITTEN PERMISSION FROM THE DEPARTMENT.
- BARRICADES: THE CONTRACTOR SHALL PROVIDE AND INSTALL TWO (2) WEIGHTED SAND BAGS ON EACH TYPE I OR TYPE II BARRICADE USED-ONE (1) WEIGHTED SAND BAG ACROSS EACH BOTTOM RAIL.
- WHEN ARTIFICIAL LIGHTING IS UTILIZED IN NIGHT OPERATIONS, THE CONTRACTOR SHALL EXERCISE THE UTMOST PRECAUTIONS IN PREVENTING ADVERSE VISIBILITY TO THE MOTORING PUBLIC AND ADJOINING RESIDENTIAL AREAS.
- SAWCUTTING WILL NOT BE PAID FOR SEPARATELY BUT SHALL BE CONSIDERED INCLUDED IN THE COST OF THE ITEM BEING REMOVED, UNLESS OTHERWISE SPECIFIED.
- POROUS GRANULAR EMBANKMENT, SUBGRADE (PGES) HAS BEEN PROVIDED FOR USE AT THE LOCATIONS INDICATED FOR SOILS THAT TEND TO BE UNSUITABLE OR UNSTABLE. THE ACTUAL NEED FOR REMOVAL AND REPLACEMENT WITH PGES WILL BE DETERMINED IN THE FIELD AT THE TIME OF CONSTRUCTION BY THE GEOTECHNICAL ENGINEER. ALL POTENTIALLY UNSTABLE SOILS SHOULD BE TESTED WITH STATIC CONE PENETROMETER AND TREATED IN ACCORDANCE WITH ARTICLE 301.03 AND THE IDOT STABILITY MANUAL. IF UNSTABLE AND/OR UNSUITABLE MATERIAL IS NOT ENCOUNTERED, THEN THE QUANTITY SHALL BE DEDUCTED AND NO ADDITIONAL COMPENSATION WILL BE DUE TO THE CONTRACTOR.
- ANY REFERENCE TO "STANDARD" THROUGHOUT THE PLANS OR SPECIAL PROVISIONS SHALL BE CONSIDERED TO BE THE "STANDARD SPECIFICATIONS FOR ROAD AND BRIDGE CONSTRUCTION" ADOPTED JANUARY 1, 2002 BY THE STATE OF ILLINOIS DEPARTMENT OF TRANSPORTATION, AND "SUPPLEMENTAL SPECIFICATIONS AND RECURRING SPECIAL PROVISIONS" DATED MARCH 1, 2005.
- THE STATION/OFFSET/ELEVATIONS NOTED FOR ALL DRAINAGE STRUCTURES LOCATED IN THE CURB LINE REFER TO THE POSITION OF THE ADJACENT PROPOSED EDGE OF PAVEMENT. THE CONTRACTOR SHALL BE RESPONSIBLE FOR DETERMINING THE OFFSET NECESSARY TO THE STRUCTURES TO SET THE FRAME AND GRATES IN THE PROPER LOCATION. ALL OTHER STRUCTURES ARE DIMENSIONED TO THE CENTER OF THE STRUCTURE; ELEVATION INDICATES RIM GRADES.
- THE CONTRACTOR SHALL BE RESPONSIBLE FOR CONTACTING LOCAL AGENCIES MAINTAINING SANITARY SEWERS, WATERMANS, AND STREET LIGHTS TO VERIFY THE MATERIALS AND METHODS ALLOWED FOR ADJUSTMENT, RELOCATION, OR EXTENSION OF THE UTILITY INVOLVED.
- THE LOCATION AND ELEVATION OF EXISTING UTILITIES ARE APPROXIMATE AND ARE PROVIDED BY THE OWNERS. THE EXACT LOCATIONS AND ELEVATIONS ARE TO BE VERIFIED BY THE CONTRACTOR THROUGH THE OWNER OF THE UTILITY.
- THE COST OF MAKING STORM SEWER CONNECTIONS TO EXISTING OR PROPOSED SEWER SHALL BE INCIDENTAL TO THE COST OF NEW STORM SEWER BEING INSTALLED.
- SEWER OR CULVERT TRENCHES CROSSING TRAFFIC LANES SHALL BE TEMPORARILY PATCHED WITH 6 INCHES OF BITUMINOUS BASE COURSE; THE COST OF THE BITUMINOUS BASE COURSE WILL BE INCLUDED IN THE CONTRACT UNIT PRICE FOR THE SEWER OR CULVERT. THIS PRICE SHALL INCLUDE THE COST OF MAINTAINING THE PATCH TO THE SATISFACTION OF THE ENGINEER.
- THE UNIT PRICE FOR ITEMS USED TO CONSTRUCT TEMPORARY PAVEMENT OR ACCESS ROADS SHALL INCLUDE ALL EQUIPMENT, LABOR AND MATERIAL REQUIRED TO PLACE, REMOVE, AND DISPOSE OF THE TEMPORARY PAVEMENT OR ACCESS ROAD.
- THE CONTRACTOR SHALL TRANSPLANT SMALLER TREES (3" TO 5" DIAMETER) TO A NEW LOCATION. THESE TREES ARE MARKED TO BE REMOVED AS SHOWN ON THE ATTACHED EXISTING AND PROPOSED PLANS. THE CONTRACTOR SHALL CONTACT A REPRESENTATIVE FROM THE VILLAGE OF ORLAND PARK 48 HOURS PRIOR TO TRANSPLANTING TREES TO DETERMINE NEW PLANTING LOCATIONS.
- THE "HIGH-EARLY STRENGTH PORTLAND CEMENT CONCRETE PAVEMENT 10" (JOINTED)" QUANTITY SHOWN IN THE SUMMARY OF QUANTITIES IS FOR BIDDING PURPOSES ONLY. THIS ITEM SHALL BE USED AT THE DIRECTION OF THE RESIDENT ENGINEER, IF THE TRAFFIC MAINTENANCE REQUIRES ITS APPLICATION.
- SUFFICIENT DRAINAGE FACILITIES SHALL BE MAINTAINED THROUGHOUT CONSTRUCTION TO FACILITATE SURFACE RUNOFF. WHEN ANY LOOSE MATERIAL IS DEPOSITED IN THE FLOW LINE OF DITCHES, GUTTER OR DRAINAGE STRUCTURES 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 SO AFFECTED SHALL BE FREE FROM DIRT AND DEBRIS. THE WORK SHALL BE INCLUDED IN THE COST OF FURNISHED EXCAVATION. IT SHALL BE THE CONTRACTOR'S RESPONSIBILITY TO PLAN HIS OPERATIONS, WITH THE APPROVAL OF THE ENGINEER IN THE FIELD, SO AS TO UTILIZE THE FACILITIES PROVIDED TO PREVENT LOCAL FLOODING AND INSURE PROPER SURFACE RUNOFF. ANY MINOR DITCH GRADING AS DIRECTED BY THE ENGINEER, NECESSARY TO PROVIDE FOR THE INTERIM DRAINAGE WILL NOT BE PAID FOR SEPARATELY BUT SHALL BE INCLUDED IN THE COST OF THE FURNISHED EXCAVATION.

- THE GENERAL CONTRACTOR IS REQUIRED TO HIRE AN ENVIRONMENTAL FIRM WITH AT LEAST FIVE (5) DOCUMENTED LEAKING UNDERGROUND STORAGE TANK (LUST) CLEANUPS OR THAT IS PREQUALIFIED IN HAZARDOUS WASTE BY THE DEPARTMENT TO REMEDIATE THE SOIL CONTAMINATION AND MONITOR FOR WORKER PROTECTION.

COMMITMENTS

- NO CONSTRUCTION MAY OCCUR ON THE SHOPPING CENTER DRIVEWAY LOCATED ON THE EAST SIDE OF US ROUTE 45 AT STATION 176+36.84 IN AND ADJACENT TO PARCEL OFZ0008 BETWEEN NOVEMBER 20th AND JANUARY 5th OF EACH YEAR THROUGHOUT THE DURATION OF THE CONSTRUCTION PROJECT. ANY DELAYS TO THE CONTRACTOR BY COMPLYING WITH THESE REQUIREMENTS SHALL BE CONSIDERED INCLUDED IN THE COST OF THE DRIVEWAY WORK STATED IN THE CONTRACT AND NO ADDITIONAL COMPENSATION WILL BE ALLOWED.

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BITUMINOUS MIXTURE DESIGN TABLE

MIXTURE TYPE	UNIT	AC TYPE	MAX RAP %	AIR VOIDS	TYPICAL THICKNESS	MIX TYPE
*TEMPORARY PAVEMENT AND PERMANENT TRANSITION PAVEMENT	SEE SUMMARY OF QUANTITIES	PG 64-22	15	4% @ 50 GYR	2"	BITUMINOUS CONCRETE SURFACE COURSE, SUPERPAVE MIX "D", N50
		PG 58-22	50	2% @ 50 GYR	8"	BITUMINOUS BASE COURSE, SUPERPAVE

* SEE SPECIAL PROVISIONS

REVISIONS		NAME	DATE
NO.	DESCRIPTION		

ILLINOIS DEPARTMENT OF TRANSPORTATION
US RTE 6 (159TH ST) AT US RTE 45 (LAGRANGE RD)

GENERAL NOTES AND COMMITMENTS

SCALE: N/A
DATE: 7-07-06

DRAWN BY: JPW
CHECKED BY: RCH

McDonough Associates Inc.
Engineers / Architects

Rev. 11-1-06

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SUMMARY OF QUANTITIES

CODE NUMBER	PAY ITEM	UNIT	URBAN TOTAL QUANTITY	100% STATE		100% VILLAGE		95% STATE 5% VILLAGE		100% VILLAGE						
				ROADWAY	TRAFFIC SIGNALS US6/US45	TRAFFIC SIGNALS US45/158+thPL	TRAFFIC SIGNALS US6/94+thAV.	100% STATE INTER CONNECT	100% VILLAGE SIGNAL PRE EMPTION	LIGHTING	WATER MAIN	SANITARY SEWER	VILLAGE LANDSCAPE	RETAINING WALL	50% STATE 50% VILLAGE NEW SIDEWALK	
				J000-2A	Y031-1F	Y031-1F	Y031-1F	Y031-1F	Y031-3D	Y030-1E	Y060	Y060	Y003	Y007	SF Y-1B	
20100110	TREE REMOVAL (6 TO 15 UNITS DIAMETER)	UNIT	205	205												
20100210	TREE REMOVAL (OVER 15 UNITS DIAMETER)	UNIT	50	50												
20101000	TEMPORARY FENCE	FOOT	100	100												
* 20101100	TREE TRUNK PROTECTION	EACH	10	10												
* 20101200	TREE ROOT PRUNING	EACH	20	20												
20200100	EARTH EXCAVATION	CU YD	16,595	16,595												
20201200	REMOVAL AND DISPOSAL OF UNSUITABLE MATERIAL	CU YD	9,700	9,700												
20400800	FURNISHED EXCAVATION	CU YD	2,265	2,265												
20700420	POROUS GRANULAR EMBANKMENT, SUBGRADE	CU YD	8,885	8,885												
20800150	TRENCH BACKFILL	CU YD	5,069	5,069												
* 21101625	TOPSOIL-FURNISH AND PLACE 6"	SQ YD	15,971	15,971												
* 25000110	SEEDING, CLASS 1A	ACRE	3.50	3.50												
* 25000400	NITROGEN FERTILIZER NUTRIENT	POUND	335	335												
* 25000500	PHOSPHOROUS FERTILIZER NUTRIENT	POUND	335	335												
* 25000600	POTASSIUM FERTILIZER NUTRIENT	POUND	335	335												
25000750	MOWING	ACRE	3.50	3.50												
* 25100630	EROSION CONTROL BLANKET	SQ YD	230	230												
* 25200200	SUPPLEMENTAL WATERING	UNIT	180.0	180.0												
* 25301700	SHRUBS	EACH	818													818
* 25400105	PERENNIAL PLANTS	EACH	11,950													11,950
28000300	TEMPORARY DITCH CHECKS	EACH	4	4												
28000510	INLET FILTERS	EACH	73	73												
* 28000600	SEEDING, CLASS 7	ACRE	0.50	0.50												
28100109	STONE RIPRAP CLASS A5	SQ YD	150	150												
40600980	BITUMINOUS SURFACE REMOVAL - BUTT JOINT	SQ YD	360	360												
40600985	PORTLAND CEMENT CONCRETE SURFACE REMOVAL - BUTT JOINT	SQ YD	360	360												

*SPECIALTY ITEMS

REVISIONS	
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ILLINOIS DEPARTMENT OF TRANSPORTATION
 US RTE 6 (159TH ST) AT US RTE 45 (LAGRANGE RD)

SUMMARY OF QUANTITIES

SCALE: N/A
 DATE: 7-07-06

DRAWN BY: BFH
 CHECKED BY: RCH

McDonough Associates Inc.
 Engineers / Architects

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SUMMARY OF QUANTITIES

100% STATE 100% VILLAGE 95% STATE 5% VILLAGE 100% VILLAGE

CODE NUMBER	PAY ITEM	UNIT	URBAN TOTAL QUANTITY	CONSTRUCTION TYPE CODE													
				ROADWAY	TRAFFIC SIGNALS US6/US45	TRAFFIC SIGNALS US45/158+thPL.	TRAFFIC SIGNALS US6/94+thAV.	100% STATE INTER CONNECT	100% VILLAGE SIGNAL PRE EMPTION	LIGHTING	WATER MAIN	SANITARY SEWER	VILLAGE LANDSCAPE	RETAINING WALL	50% STATE 50% VILLAGE NEW SIDEWALK		
40600990	TEMPORARY RAMP	SQ YD	360	360													
42000301	PORTLAND CEMENT CONCRETE PAVEMENT 8" (JOINTED)	SQ YD	1,171	1,171													
42000501	PORTLAND CEMENT CONCRETE PAVEMENT 10" (JOINTED)	SQ YD	44,674	44,674													
42001300	PROTECTIVE COAT	SQ YD	10,002	10,002													
42300400	PORTLAND CEMENT CONCRETE DRIVEWAY PAVEMENT, 8 INCH	SQ YD	2,622	2,622													
42400200	PORTLAND CEMENT CONCRETE SIDEWALK 5 INCH	SQ FT	65,267	39,533													25,734
44000100	PAVEMENT REMOVAL	SQ YD	38,269	38,269													
44000200	DRIVEWAY PAVEMENT REMOVAL	SQ YD	8,406	8,406													
44000300	CURB REMOVAL	FOOT	5,281	5,281													
44000500	COMBINATION CURB AND GUTTER REMOVAL	FOOT	16,378	16,378													
44000600	SIDEWALK REMOVAL	SQ FT	25,536	25,536													
44001700	COMBINATION CONCRETE CURB AND GUTTER REMOVAL AND REPLACEMENT	FOOT	837	837													
44003100	MEDIAN REMOVAL	SQ FT	30,556	30,556													
50901105	STEEL RAILING	FOOT	1,242														1,242
55019500	STORM SEWERS, TYPE 1, REINFORCED CONCRETE CULVERT, STORM DRAIN, AND SEWER PIPE, CLASS IV 12"	FOOT	476	476													
55021600	STORM SEWERS, TYPE 2, REINFORCED CONCRETE CULVERT, STORM DRAIN, AND SEWER PIPE, CLASS III 12	FOOT	2684	2684													
55021700	STORM SEWERS, TYPE 2, REINFORCED CONCRETE CULVERT, STORM DRAIN, AND SEWER PIPE, CLASS III 15	FOOT	1372	1372													
55021800	STORM SEWERS, TYPE 2, REINFORCED CONCRETE CULVERT, STORM DRAIN, AND SEWER PIPE, CLASS III 18	FOOT	830	830													
55021900	STORM SEWERS, TYPE 2, REINFORCED CONCRETE CULVERT, STORM DRAIN, AND SEWER PIPE, CLASS III 21	FOOT	268	268													
55022000	STORM SEWERS, TYPE 2, REINFORCED CONCRETE CULVERT, STORM DRAIN, AND SEWER PIPE, CLASS III 24	FOOT	529	529													
55022200	STORM SEWERS, TYPE 2, REINFORCED CONCRETE CULVERT, STORM DRAIN, AND SEWER PIPE, CLASS III 30	FOOT	936	936													
55100500	STORM SEWER REMOVAL 12"	FOOT	2,313	2,313													
55100700	STORM SEWER REMOVAL 15"	FOOT	970	970													
55100900	STORM SEWER REMOVAL 18"	FOOT	452	452													
55101200	STORM SEWER REMOVAL 24"	FOOT	1,632	1,632													
55101300	STORM SEWER REMOVAL 27"	FOOT	19	19													

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ILLINOIS DEPARTMENT OF TRANSPORTATION
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Engineers / Architects

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SUMMARY OF QUANTITIES

← 100% STATE
95% STATE
100% VILLAGE 5% VILLAGE
← 100% VILLAGE

CODE NUMBER	PAY ITEM	UNIT	URBAN TOTAL QUANTITY	CONSTRUCTION TYPE CODE													
				ROADWAY	TRAFFIC SIGNALS US6/US45	TRAFFIC SIGNALS US45/158+thPL.	TRAFFIC SIGNALS US6/94+thAV.	100% STATE INTER CONNECT	100% VILLAGE SIGNAL PRE EMPTION	LIGHTING	WATER MAIN	SANITARY SEWER	VILLAGE LANDSCAPE	RETAINING WALL	50% STATE 50% VILLAGE NEW SIDEWALK		
* 56103000	DUCTILE IRON WATER MAIN 6"	FOOT	70									70					
* 56103100	DUCTILE IRON WATER MAIN 8"	FOOT	1,072									1,072					
* 56103200	DUCTILE IRON WATER MAIN 10"	FOOT	15									15					
* 56103300	DUCTILE IRON WATER MAIN 12"	FOOT	271									271					
* 56103400	DUCTILE IRON WATER MAIN 16"	FOOT	1,362									1,362					
* 56105760	BUTTERFLY VALVES 16"	EACH	2									2					
* 56300300	ADJUSTING WATER SERVICE LINES	FOOT	500									500					
* 56400300	FIRE HYDRANTS TO BE ADJUSTED	EACH	2									2					
* 56400400	FIRE HYDRANTS TO BE RELOCATED	EACH	13									13					
* 56400500	FIRE HYDRANTS TO BE REMOVED	EACH	12									12					
* 56400820	FIRE HYDRANT WITH AUXILIARY VALVE AND VALVE BOX	EACH	3									3					
60107600	PIPE UNDERDRAINS, 4"	FOOT	3,230													3,230	
60200805	CATCH BASINS, TYPE A, 4'-DIAMETER, TYPE 8 GRATE	EACH	7	7													
60201330	CATCH BASINS, TYPE A, 4'-DIAMETER, TYPE 23 FRAME AND GRATE	EACH	13	13													
60201340	CATCH BASINS, TYPE A, 4'-DIAMETER, TYPE 24 FRAME AND GRATE	EACH	70	70													
60207605	CATCH BASINS, TYPE C, TYPE 8 GRATE	EACH	2	2													
60208240	CATCH BASINS, TYPE C, TYPE 24 FRAME AND GRATE	EACH	2	2													
60218400	MANHOLES, TYPE A, 4'-DIAMETER, TYPE 1 FRAME, CLOSED LID	EACH	22	22													
60221100	MANHOLES, TYPE A, 5'-DIAMETER, TYPE 1 FRAME, CLOSED LID	EACH	17	17													
60223800	MANHOLES, TYPE A, 6'-DIAMETER, TYPE 1 FRAME, CLOSED LID	EACH	1	1													
60237470	INLETS, TYPE A, TYPE 24 FRAME AND GRATE	EACH	2	2													
60248000	JUNCTION CHAMBER NO.1	EACH	1	1													
60248100	JUNCTION CHAMBER NO. 2	EACH	1	1													
60248700	VALVE VAULTS, TYPE A, 4'-DIAMETER, TYPE 1 FRAME, CLOSED LID	EACH	2									2					
60248900	VALVE VAULTS, TYPE A, 5'-DIAMETER, TYPE 1 FRAME, CLOSED LID	EACH	6									6					
60250200	CATCH BASINS TO BE ADJUSTED	EACH	2	2													

*SPECIALTY ITEMS

REVISIONS		ILLINOIS DEPARTMENT OF TRANSPORTATION US RTE 6 (159TH ST) AT US RTE 45 (LAGRANGE RD)
NAME	DATE	
SUMMARY OF QUANTITIES		SCALE: N/A
		DATE: 7-07-06
		DRAWN BY: BFH
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		McDonough Associates Inc. Engineers / Architects

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SUMMARY OF QUANTITIES

CODE NUMBER	PAY ITEM	UNIT	URBAN TOTAL QUANTITY	CONSTRUCTION TYPE CODE													
				100% STATE		100% VILLAGE		95% STATE 5% VILLAGE		100% STATE 100% VILLAGE		100% VILLAGE		50% STATE 50% VILLAGE NEW			
				ROADWAY	TRAFFIC SIGNALS US6/US45	TRAFFIC SIGNALS US45/158thPL.	TRAFFIC SIGNALS US6/94thAV.	100% STATE INTER CONNECT	100% VILLAGE SIGNAL PRE EMPTION	LIGHTING	WATER MAIN	SANITARY SEWER	VILLAGE LANDSCAPE	RETAINING WALL	SFTY-1B		
* 70400100	TEMPORARY CONCRETE BARRIER	FOOT	2,310	2,310													
* 70400200	RELOCATE ^{TEMPORARY} CONCRETE BARRIER	FOOT	1,790	1,790													
* 72000100	SIGN PANEL - TYPE 1	SQ FT	93		40	38	15										
* 72000200	SIGN PANEL - TYPE 2	SQ FT	120		120												
* 78008200	POLYUREA PAVEMENT MARKING TYPE I - LETTERS AND SYMBOLS	SQ FT	1,128	1,128													
* 78008210	POLYUREA PAVEMENT MARKING TYPE I - LINE 4"	FOOT	3,006	3,006													
* 78008230	POLYUREA PAVEMENT MARKING TYPE I - LINE 6"	FOOT	19,396	19,396													
* 78008240	POLYUREA PAVEMENT MARKING TYPE I - LINE 8"	FOOT	506	506													
* 78008250	POLYUREA PAVEMENT MARKING TYPE I - LINE 12"	FOOT	34	34													
* 78008270	POLYUREA PAVEMENT MARKING TYPE I - LINE 24"	FOOT	482	482													
* 78100100	RAISED REFLECTIVE PAVEMENT MARKER	EACH	396	396													
* 78200100	MONODIRECTIONAL PRISMATIC BARRIER REFLECTOR	EACH	92	92													
* 78300100	PAVEMENT MARKING REMOVAL	SQ FT	11,890	11,890													
* 80400100	ELECTRIC SERVICE INSTALLATION	EACH	1									1					
* 80400200	ELECTRIC UTILITY SERVICE CONNECTION	L SUM	1									1					
* 80700140	GROUND ROD, 5/8" DIA. X 10 FT.	EACH	36									36					
* 80800500	TEMPORARY WOOD POLE, 60 FT., CLASS 4	EACH	9									9					
* 81000600	CONDUIT IN TRENCH, 2" DIA., GALVANIZED STEEL	FOOT	5,236		937	562	209	3,498				30					
* 81000700	CONDUIT IN TRENCH, 2 1/2" DIA., GALVANIZED STEEL	FOOT	69		61		8										
* 81000800	CONDUIT IN TRENCH, 3" DIA., GALVANIZED STEEL	FOOT	101		53	20	28										
* 81000900	CONDUIT IN TRENCH, 3 1/2" DIA., GALVANIZED STEEL	FOOT	13			13											
* 81001000	CONDUIT IN TRENCH, 4" DIA., GALVANIZED STEEL	FOOT	30		10	10	10										
* 81018500	CONDUIT PUSHED, 2" DIA., GALVANIZED STEEL	FOOT	1,125		447	137	197	344									
* <u>XX005272</u>	CONDUIT PUSHED, 4" DIA., ^{RIGID} GALVANIZED STEEL	FOOT	4,324		624	491	484					2,725					
* 81400100	HANDHOLE	EACH	18		6	4	3	5									
* 81400200	HEAVY-DUTY HANDHOLE	EACH	9		4	4	1										

*SPECIALTY ITEMS

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ILLINOIS DEPARTMENT OF TRANSPORTATION
US RTE 6 (159TH ST) AT US RTE 45 (LAGRANGE RD)

SUMMARY OF QUANTITIES

SCALE: N/A
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Engineers / Architects

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SUMMARY OF QUANTITIES

100% STATE 95% STATE 5% VILLAGE 100% VILLAGE

CODE NUMBER	PAY ITEM	UNIT	URBAN TOTAL QUANTITY	CONSTRUCTION TYPE CODE											
				ROADWAY	TRAFFIC SIGNALS US6/US45	TRAFFIC SIGNALS US45/158+HPL.	TRAFFIC SIGNALS US6/94+HAY.	100% STATE INTER CONNECT	100% VILLAGE SIGNAL PRE EMPTION	LIGHTING	WATER MAIN	SANITARY SEWER	VILLAGE LANDSCAPE	RETAINING WALL	50% STATE 50% VILLAGE NEW SIDEWALK
				J000-2A	Y031-1F	Y031-1F	Y031-1F	Y031-1F	Y031-3D	Y030-1E	Y060	Y060	Y003	Y007	SF Y-1B
* 81400300	DOUBLE HANDHOLE	EACH	6		2	2	2								
* 81500200	TRENCH AND BACKFILL FOR ELECTRICAL WORK	FOOT	14,138		1056	587	250	3,679		8,566					
* 81701345	ELECTRIC CABLE IN CONDUIT, 600V (EPR-TYPE USE) 3-1/C NO. 3/0	FOOT	55							55					
* 81800700	<u>AWG ALUMINUM</u> AERIAL CABLE, 3-1/C NO. 2, WITH MESSENGER WIRE	FOOT	6526							6526					
* 82106400	LUMINAIRE, SODIUM VAPOR, HORIZONTAL MOUNT, 400 WATT (INSTALL ONLY)	EACH	55							55					
* 82102250	<u>LUMINAIRE, SODIUM VAPOR, HORIZONTAL MOUNT, 250 WATT</u>	EACH	2							2					
* 83050810	LIGHT POLE, ALUMINUM, 47.5 FT. M.H., 15 FT. MAST ARM	EACH	13							13					
* 83600200	LIGHT POLE FOUNDATION, 24" DIAMETER	FOOT	600							600					
* 84100110	REMOVAL OF TEMPORARY LIGHTING UNITS	EACH	78							78					
* 84200500	REMOVAL OF EXISTING LIGHTING UNIT, SALVAGE	EACH	30							30					
* 84200700	LIGHTING FOUNDATION REMOVAL	EACH	5							5					
* 84200705	LIGHTING FOUNDATION REMOVAL, PARTIAL	EACH	55							55					
* 84400105	RELOCATE EXISTING LIGHTING UNIT	EACH	5							5					
* 84500110	REMOVAL OF LIGHTING CONTROLLER	EACH	1							1					
* 84500120	REMOVAL OF ELECTRIC SERVICE INSTALLATION	EACH	2							2					
* 84500130	REMOVAL OF LIGHTING CONTROLLER FOUNDATION	EACH	1							1					
* 85700200	FULL-ACTUATED CONTROLLER AND TYPE IV CABINET	EACH	2			1	1								
* 85700305	FULL-ACTUATED CONTROLLER AND TYPE V CABINET, SPECIAL	EACH	1		1										
* 86400100	TRANSCEIVER - FIBER OPTIC	EACH	3		1	1	1								
* 87301215	ELECTRIC CABLE IN CONDUIT, SIGNAL NO. 14 2C	FOOT	1,756		1052	704									
* 87301225	ELECTRIC CABLE IN CONDUIT, SIGNAL NO. 14 3C	FOOT	6,160		2929	2415	816								
* 87301245	ELECTRIC CABLE IN CONDUIT, SIGNAL NO. 14 5C	FOOT	7,720		4004	2822	894								
* 87301255	ELECTRIC CABLE IN CONDUIT, SIGNAL NO. 14 7C	FOOT	6,017		1989	1382	2646								
* 87301305	ELECTRIC CABLE IN CONDUIT, LEAD-IN, NO. 14 1 PAIR	FOOT	12,584		3997	4702	3885								
* 87301805	ELECTRIC CABLE IN CONDUIT, SERVICE, NO. 6 2 C	FOOT	119		46	51	22								
* 87700150	STEEL MAST ARM ASSEMBLY AND POLE, 22 FT.	EACH	2		2										
* 87700180	STEEL MAST ARM ASSEMBLY AND POLE, 28 FT.	EACH	1		1										

* SPECIALTY ITEMS

REVISIONS	
NAME	DATE

ILLINOIS DEPARTMENT OF TRANSPORTATION
US RTE 6 (159TH ST) AT US RTE 45 (LAGRANGE RD)

SUMMARY OF QUANTITIES

SCALE: N/A DRAWN BY: BFH
DATE: 7-07-06 CHECKED BY: RCH

McDonough Associates Inc.
Engineers / Architects

Rev. 11-1-06

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SUMMARY OF QUANTITIES

CODE NUMBER	PAY ITEM	UNIT	URBAN TOTAL QUANTITY	100% STATE		100% VILLAGE		95% STATE 5% VILLAGE		100% VILLAGE		CONSTRUCTION TYPE CODE					
				ROADWAY	TRAFFIC SIGNALS US6/US45	TRAFFIC SIGNALS US45/158thPL.	TRAFFIC SIGNALS US6/94thAV.	100% STATE INTER CONNECT	100% VILLAGE SIGNAL PRE EMPTION	LIGHTING	WATER MAIN	SANITARY SEWER	VILLAGE LANDSCAPE	RETAINING WALL	50% STATE 50% VILLAGE SIDEWALK		
				J000-2A	Y031-1F	Y031-1F	Y031-1F	Y031-1F	Y031-3D	Y030-1E	Y060	Y060	Y003	Y007	SFTY-1B		
* X8810620	PEDESTRIAN SIGNAL HEAD, LED, 2-FACE, BRACKET MOUNTED	EACH	6		2	4											
* X8950115	RELOCATE LIGHT DETECTOR	EACH	1				1										
* X8950120	RELOCATE LIGHT DETECTOR AMPLIFIER	EACH	1				1										
* XX001490	GATE VALVES, 8"	EACH	2									2					
* XX002113	TEMPORARY LIGHTING CONTROLLER	EACH	1								1						
* XX002985	TEMPORARY CAP	EACH	7									7					
* XX003032	GATE VALVES, 12"	EACH	3									3					
* XX006253	SANITARY MANHOLE, 4' DIA	EACH	2										2				
XX004056	MECHANICALLY STABILIZED EARTH RETAINING WALL	SQ FT	7,639													7,639	
* XX004122	PERENNIAL PLANTS BULB, SPECIAL	UNIT	33												33		
XX004667	RESTRICTOR MANHOLE, TYPE A, 6'DIAMETER TYPE 1 FRAME, CLOSED LID	EACH	2	2													
* XX004810	VALVE VAULTS, TYPE A, 6'-DIAMETER, TYPE 1 FRAME, CLOSED LID	EACH	3									3					
XX004970	TEMPORARY PAVEMENT SUPERPAVE	SQ YD	21,798	21,798													
X0325560	SEDIMENT CONTROL DRAINAGE STRUCTURE INLET FILTER	EACH	123	123													
Z0001050	AGGREGATE SUBGRADE 12"	SQ YD	51,154	51,154													
Z0013798	CONSTRUCTION LAYOUT	L SUM	1	1													
Ⓞ Z0030255	IMPACT ATTENUATORS, TEMPORARY (FULLY REDIRECTIVE, NARROW), TEST LEVEL 2	EACH	19	19													
Z0041700	PLUG EXISTING STORM SEWERS	EACH	7	7													
* Z0045002	PRESSURE CONNECTION 12" X 8"	EACH	1									1					
* Z0045400	PRESSURE CONNECTION 16" X 16"	EACH	1									1					
* Z0056900	SANITARY SEWER 8"	FOOT	212										212				
* Z0067500	STEEL CASINGS 16"	FOOT	110									110					
* Z0067700	STEEL CASINGS 20"	FOOT	80									80					
* Z0067900	STEEL CASINGS 24"	FOOT	30									30					
X0325546	WET PAVEMENT MARKING TAPE, TYPE III 8"	FOOT	888	888													
X0325547	WET PAVEMENT MARKING TAPE, TYPE III 24"	FOOT	933	933													

Ⓞ SFTY-3N
* SPECIALTY ITEMS

REVISIONS	
NAME	DATE

ILLINOIS DEPARTMENT OF TRANSPORTATION
US RTE 6 (159TH ST) AT US RTE 45 (LAGRANGE RD)

SUMMARY OF QUANTITIES

SCALE: N/A
DATE: 7-07-06

DRAWN BY: BFH
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McDonough Associates Inc.
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Rev. 11-1-06 Rev.

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SUMMARY OF QUANTITIES

100% STATE 100% VILLAGE 95% STATE 5% VILLAGE 100% VILLAGE

CODE NUMBER	PAY ITEM	UNIT	URBAN TOTAL QUANTITY	CONSTRUCTION TYPE CODE													
				ROADWAY	TRAFFIC SIGNALS US6/US45	TRAFFIC SIGNALS US45/158thPL.	TRAFFIC SIGNALS US6/94thAV.	100% STATE INTER CONNECT	100% VILLAGE SIGNAL PRE EMPTION	LIGHTING	WATER MAIN	SANITARY SEWER	VILLAGE LANDSCAPE	RETAINING WALL	50% STATE 50% VILLAGE NEW SIDEWALK		
				J000-2A	Y031-IF	Y031-IF	Y031-IF	Y031-IF	Y031-3D	Y030-1E	Y060	Y060	Y003	Y007	SFT Y-1B		
X0325542	HIGH-EARLY-STRENGTH PORTLAND CEMENT CONCRETE PAVEMENT 10" (JOINTED)	SQ YD	1,000	1,000													
X0325543	TRANSITION SLEEVE 16"	EACH	1									1					
X0325544	PRESSURE CONNECTION 16" X 8"	EACH	1									1					
X0323828	WATER MAIN TO BE REMOVED 16"	FOOT	1,023									1,023					
X0320772	WATER MAIN TO BE REMOVED 12"	FOOT	132									132					
X0325548	STEEL MAST ARM ASSEMBLY AND POLE WITH DUAL MAST ARMS, 26 FT. AND 38 FT.	EACH	1				1										
X0325549	STEEL MAST ARM ASSEMBLY AND POLE WITH DUAL MAST ARMS, 32 FT. AND 36 FT.	EACH	1			1											
X0325550	STEEL MAST ARM ASSEMBLY AND POLE WITH DUAL MAST ARMS, 36 FT. AND 38 FT.	EACH	1			1											
X0325551	STEEL MAST ARM ASSEMBLY AND POLE WITH DUAL MAST ARMS, 44 FT AND 22 FT.	EACH	1				1										
X0325552	STEEL MAST ARM ASSEMBLY AND POLE WITH DUAL MAST ARMS, 44 FT AND 28 FT.	EACH	1				1										
X0325545	PLANTING MIX, FURNISH AND PLACE, 18"	SQ YD	1,072													1,072	
A2002020	TREE, AESCULUS GLABRA (OHIO BUCKEYE), 2-1/2" CALIPER, BALLED AND BURLAPPED	EACH	12													12	
A2002218	TREE, ALNUS GLUTINOSA (BLACK ALDER), 2" CALIPER, BALLED AND BURLAPPED	EACH	32													32	
A2004514	TREE, GINKGO BILOBA AUTUMN GOLD (AUTUMN GOLD GINKGO), 2-1/2", BALLED AND BURLAPPED	EACH	5													5	
X0800525	TEMPORARY WOOD POLE, 60 FT., CLASS 4, 15 FT. MAST ARM	EACH	1									1					
X0800975	TEMPORARY WOOD POLE 100 FT., CLASS 4, 15 FT. MAST ARM	EACH	26									26					
XX005840	FLAGSTONE SIDEWALK (SPECIAL)	SQ FT	2,876													2,876	
X08105700	LUMINAIRE, SODIUM VAPOR, HIGH MAST, HORIZONTAL MOUNT, 750 WATT	EACH	26									26					
X0325559	LIGHTING CONTROLLER, SPECIAL, 200A, 240/480V	EACH	1									1					
X0325555	ALUMINUM BREAKAWAY, TRANSFORMER BASE	EACH	60									60					
X0325556	TEMPORARY LUMINAIRE, SODIUM VAPOR, HORIZONTAL MOUNT, 400 WATT, TYPE III DISTRIBUTION	EACH	9									9					
X0325557	TEMPORARY LUMINAIRE, SODIUM VAPOR, HORIZONTAL MOUNT, 400 WATT, TYPE IV DISTRIBUTION	EACH	75									75					
X0325558	UNIT DUCT, WITH 5-1/C NO. 4 AND 1/C NO. 6 GROUND, 600V (EPR-TYPE RHW), 1 1/2" DIA., POLYETHYLENE	FOOT	10,650									10,650					
X0325554	MODIFY EXISTING LIGHT POLE, ALUMINUM 47.5 FT. M.H., WITH NEW 15 FT. MAST ARM AND 20A, 120V GFCI RECEPTACLE	EACH	42									42					
X2510630	HEAVY DUTY EROSION CONTROL BLANKET	SQ YD	15971													15,971	
X06900530	SOIL DISPOSAL ANALYSIS	EACH	6														
X42400800	DETECTABLE WARNINGS	SQ FT	350													350	
X06900200	NON-SPECIAL WASTE DISPOSAL	CU YD	508													508	
X06900400	SPECIAL WASTE GROUNDWATER DISPOSAL	GALLON	11,056													11,056	
X06900450	SPECIAL WASTE PLANS AND REPORTS	L SUM															
X06901000	BACKFILL PLUGS	CU YD	43													43	
X0301828	ENGINEERED BARRIER	SQ YD	1,546													1,546	

*SPECIALTY ITEMS

REVISIONS	
NAME	DATE

ILLINOIS DEPARTMENT OF TRANSPORTATION
US RTE 6 (159TH ST) AT US RTE 45 (LAGRANGE RD)

SUMMARY OF QUANTITIES

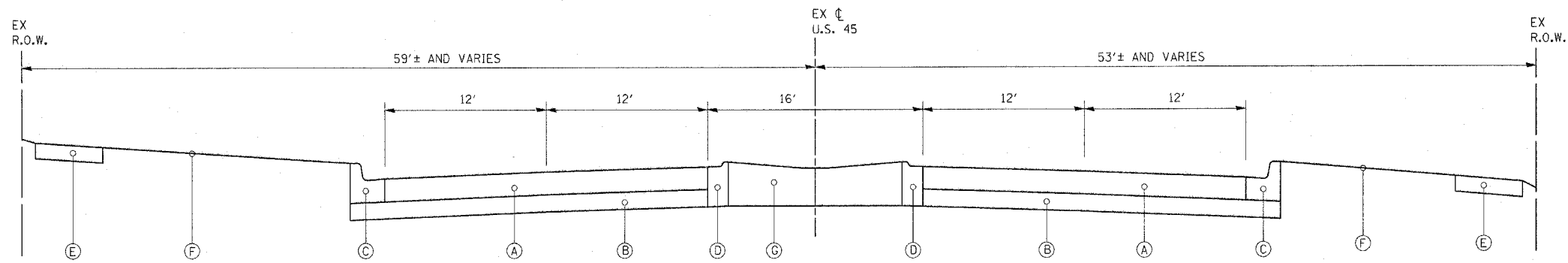
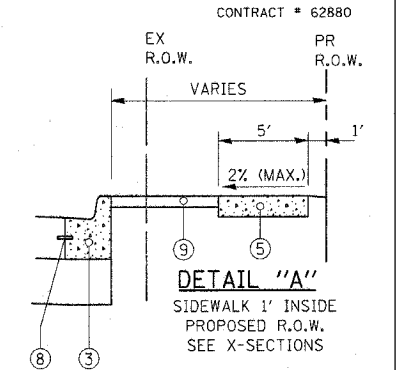
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DATE: 7-07-06 CHECKED BY: RCH

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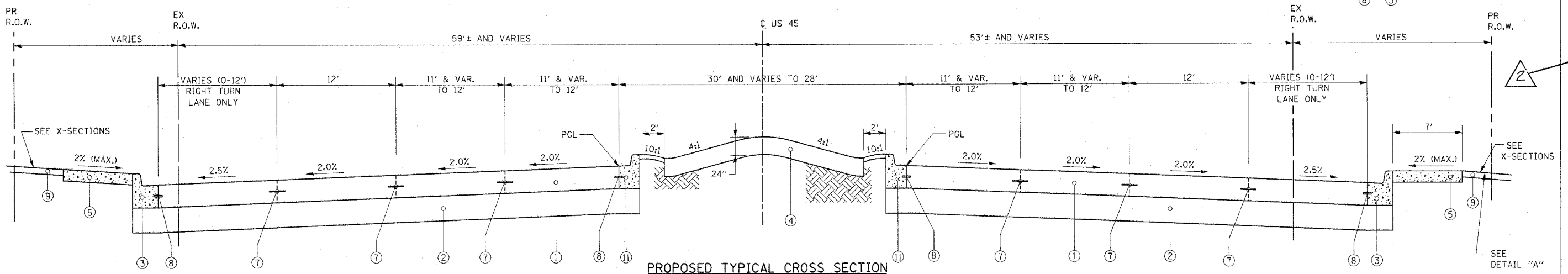
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Rev. 9-11-06

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F.A.D. R.T.E.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
351	537 R-1	COOK	245	15
STA. _____		TO STA. _____		
FED. ROAD DIST. NO. _____		ILLINOIS FED. AID PROJECT		

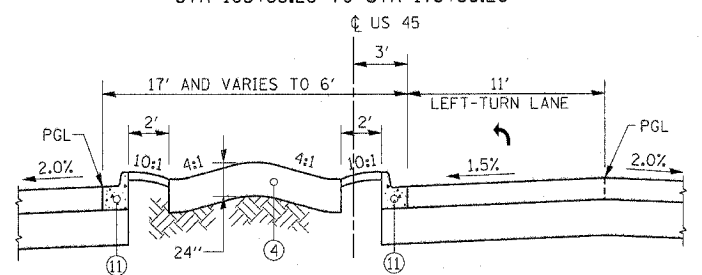


EXISTING TYPICAL CROSS SECTION
U.S. ROUTE 45 (LAGRANGE ROAD)

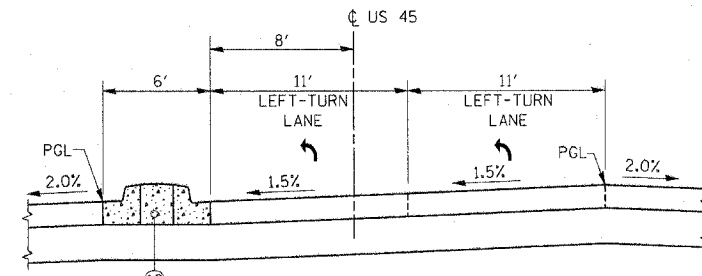


PROPOSED TYPICAL CROSS SECTION
U.S. ROUTE 45 (LAGRANGE ROAD)
STA 163+53.28 TO STA 178+86.26

- EXISTING LEGEND**
- (A) EXISTING CONCRETE PAVEMENT, 8"
 - (B) EXISTING SUBBASE, 6"
 - (C) EXISTING CURB AND GUTTER, TYPE B-6.24
 - (D) EXISTING CONCRETE CURB & GUTTER TYPE M-6.12
 - (E) EXISTING SIDEWALK
 - (F) PARKWAY (GRASS AREA)
 - (G) EXISTING CONCRETE MEDIAN
- PROPOSED LEGEND**
- (1) PORTLAND CEMENT PAVEMENT (JOINTED), 10"
 - (2) AGGREGATE SUBGRADE, 12"
 - (3) COMBINATION CONCRETE CURB AND GUTTER, TYPE B6.24
 - (4) LANDSCAPING (SEE LANDSCAPING PLANS FOR DETAILS)
 - (5) PORTLAND CONCRETE CEMENT SIDEWALK, 5"
 - (6) NOT USED
 - (7) LONGITUDINAL CONSTRUCTION JOINT GROUTED IN PLACE, No. 6 TIE BAR AT 24" LONG, DEFORMED (EPOXY COATED) AT 24" CTS. (INCLUDED IN THE COST OF THE PROPOSED PAVEMENT)
 - (8) No. 6 TIE BAR AT 24" LONG, DEFORMED (EPOXY COATED) AT 24" CTS. (INCLUDED IN THE COST OF THE PROPOSED CURB AND GUTTER)
 - (9) TOPSOIL AND SEED (SALT TOLERANT. SEE LANDSCAPING SHEETS)
 - (10) CONCRETE MEDIAN, TYPE SB-6.18
 - (11) COMBINATION CONCRETE CURB AND GUTTER, TYPE B6.18



LANDSCAPE MEDIAN DETAIL
AT SINGLE LEFT TURN LANE



MEDIAN DETAIL
AT DUAL LEFT TURN LANES
(SEE DISTRICT STANDARD 606301-02)

STRUCTURAL DESIGN TRAFFIC: Year 2015

PV= 49,943 SU= 1,629 MU= 2,714

ROAD/STREET CLASSIFICATION: Class I

PERCENT OF STRUCTURAL DESIGN TRAFFIC IN DESIGN LANE:

P= 8.0% S= 37% M= 37%

TRAFFIC FACTOR: Actual TF = 15.73%
Minimum TF = 4.95%

P.C.C. PAVEMENT - JOINTED = 10 Inch

SUBGRADE SUPPORT RATING:
SSR = POOR

SUPERPAVE MIX DESIGN

TEMPORARY PAVEMENT			
MIX TYPE	MAX RAP %	VOIDS	AC TYPE
BITUMINOUS BASE COURSE, SUPER PAVE, 8"	50	2% @ 50 Gyr.	PG 58-22
BITUMINOUS CONCRETE SURFACE COURSE, SUPERPAVE, MIX "D", N50 2"	15	4% @ 50 Gyr.	PG 64-22

REVISIONS

NAME	DATE

ILLINOIS DEPARTMENT OF TRANSPORTATION
US RTE 6 (159TH ST) AT US RTE 45 (LAGRANGE RD)

US RTE 45 (LAGRANGE ROAD)
TYPICAL SECTIONS

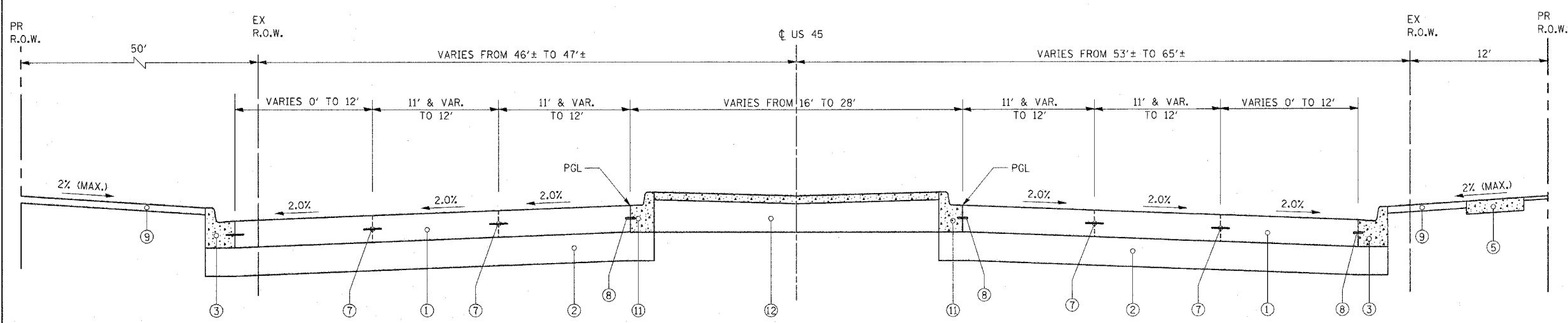
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DATE: 7-07-06 CHECKED BY: RCH

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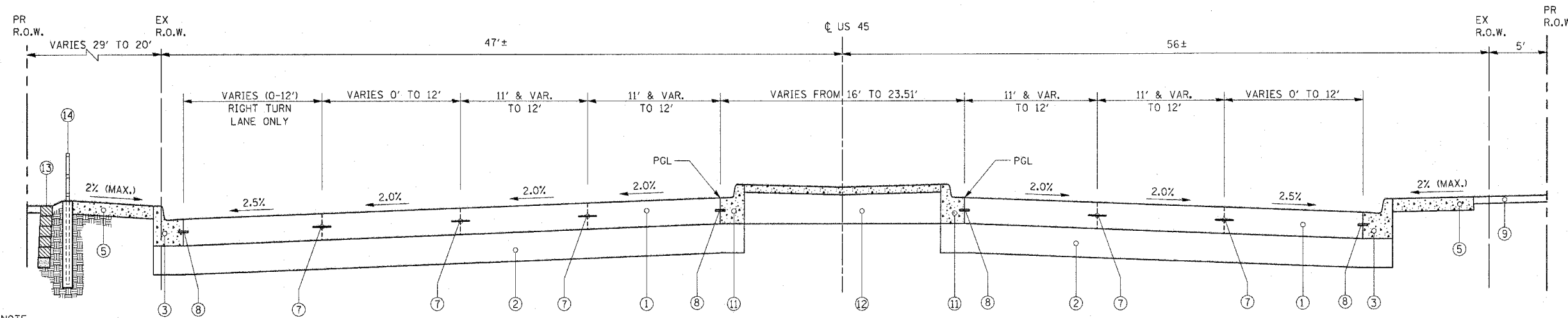
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F.A.P. SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
351 537 R-1	COOK	245	16
STA. _____ TO STA. _____		ILLINOIS FED. AID PROJECT	
CONTRACT # 62880			



PROPOSED TYPICAL CROSS SECTION
STA. 158+58.28 TO STA. 163+53.28



NOTE:
 MECHANICALLY STABILIZED EARTH (MSE) RETAINING WALL AND STEEL RAILING FROM STA. 178+86.26 TO STA. 181+53.78

PROPOSED TYPICAL CROSS SECTION
STA. 178+86.26 TO STA. 183+50.00

•• 10' TRANSITION FROM B-6.18 C.&G. TO M-2.12 C.&G. AS SHOWN ON SHEET PF-3

- PROPOSED LEGEND**
- ① PORTLAND CEMENT PAVEMENT (JOINTED), 10"
 - ② AGGREGATE SUBGRADE, 12"
 - ③ COMBINATION CONCRETE CURB AND GUTTER, TYPE B6.24
 - ④ LANDSCAPING (SEE LANDSCAPING PLANS FOR DETAILS)
 - ⑤ PORTLAND CONCRETE CEMENT SIDEWALK, 5"
 - ⑥ NOT USED
 - ⑦ LONGITUDINAL CONSTRUCTION JOINT GROUTED IN PLACE, No. 6 TIE BAR AT 24" LONG, DEFORMED (EPOXY COATED) AT 24" CTS. (INCLUDED IN THE COST OF THE PROPOSED PAVEMENT)
 - ⑧ No. 6 TIE BAR AT 24" LONG, DEFORMED (EPOXY COATED) AT 24" CTS. (INCLUDED IN THE COST OF THE PROPOSED CURB AND GUTTER)
 - ⑨ TOPSOIL AND SEED (SALT TOLERANT, SEE LANDSCAPING SHEETS)
 - ⑩ CONCRETE MEDIAN, TYPE SB-6.18
 - ⑪ COMBINATION CONCRETE CURB AND GUTTER, TYPE B-6.18
 - ⑫ CONCRETE MEDIAN, TYPE P
 - ⑬ MECHANICALLY STABILIZED EARTH (MSE) RETAINING WALL
 - ⑭ STEEL RAILING AND FOUNDATION

BITUMINOUS MIXTURE DESIGN TABLE

MIXTURE TYPE	UNIT	AC TYPE	MAX RAP %	AIR VOIDS	TYPICAL THICKNESS	MIX TYPE
•TEMPORARY PAVEMENT	SEE SUMMARY OF QUANTITIES	PG 64-22	15	4% @ 50 GYR	2"	BITUMINOUS CONCRETE SURFACE COURSE, SUPERPAVE MIX "D", N50 BITUMINOUS BASE COURSE, SUPERPAVE
		PG 58-22	50	2% @ 50 GYR	8"	

• SEE SPECIAL PROVISIONS

POROUS GRANULAR EMBANKMENT SUBGRADE (PGES) HAS BEEN PROVIDED AT LOCATIONS INDICATED FOR SOILS WHICH 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 ENGINEER (BY USE OF A CONE PENETROMETER IN CONJUNCTION WITH THE IDOT SUBGRADE STABILITY MANUAL). IF UNSTABLE SOILS ARE ENCOUNTERED, THE SOILS WILL BE REMOVED AND REPLACED WITH PGES. IF UNSTABLE SOILS ARE NOT ENCOUNTERED, THEN THE QUANTITY SHALL BE DEDUCTED AND NO ADDITIONAL COMPENSATION WILL BE DUE TO THE CONTRACTOR. ALL UNDERCUTS SHALL EXTEND TO 12 INCH OUTSIDE OF PROPOSED PAVEMENT.

REVISIONS	
NAME	DATE

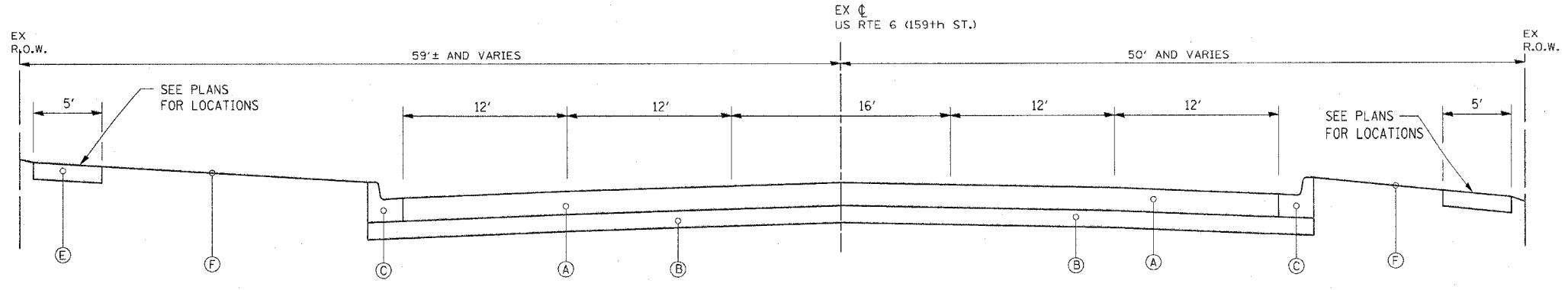
ILLINOIS DEPARTMENT OF TRANSPORTATION
 US RTE 6 (159TH ST) AT US RTE 45 (LAGRANGE RD)
US RTE 45 (LAGRANGE ROAD)
TYPICAL SECTIONS
 SCALE: N.T.S. DRAWN BY: JPW
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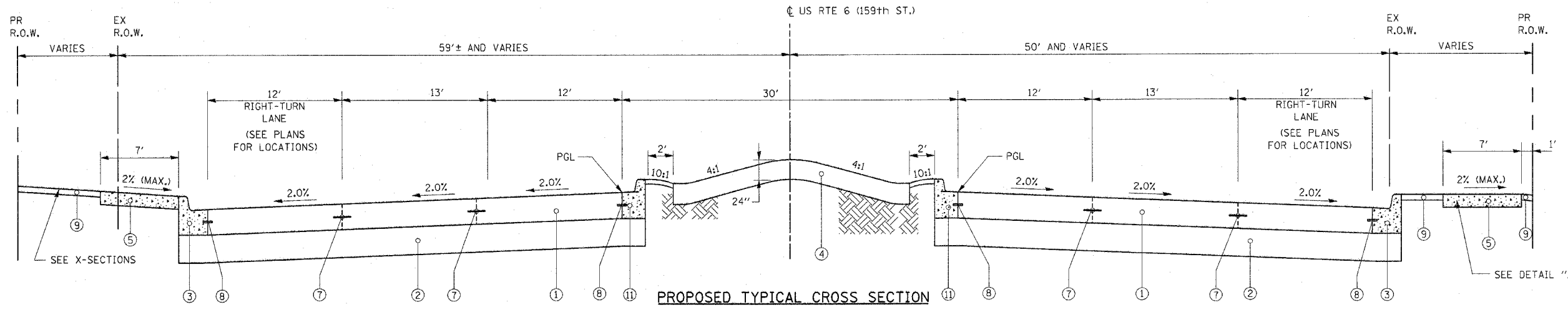
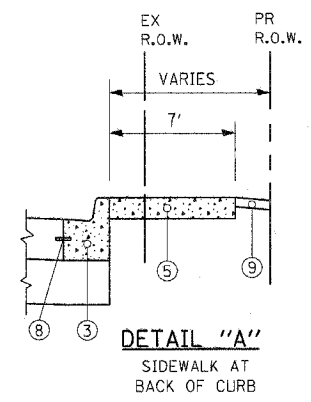
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STATE	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
ILLINOIS	537 R-1	COOK	245	17
STA. _____ TO STA. _____		FED. AID PROJECT		
FED. ROAD DIST. NO. _____		CONTRACT # 62880		



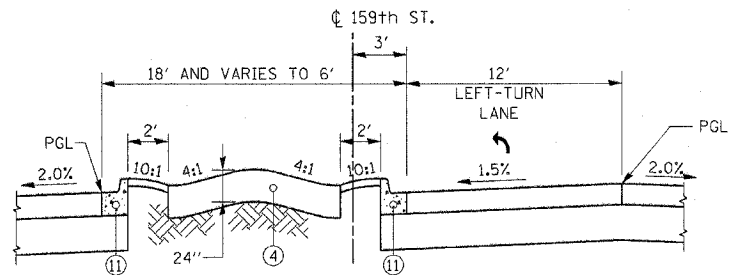
EXISTING TYPICAL CROSS SECTION
U.S. ROUTE 6 (159TH STREET)



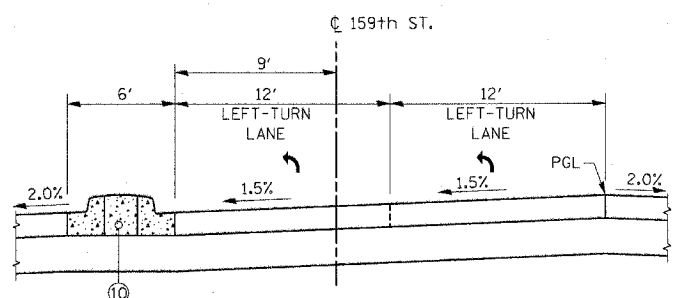
PROPOSED TYPICAL CROSS SECTION
U.S. ROUTE 6 (159TH STREET)
STA 421+18.46 TO STA 447+53.93

- EXISTING LEGEND**
- (A) EXISTING CONCRETE PAVEMENT, 8"
 - (B) EXISTING SUBBASE, 6"
 - (C) EXISTING CURB AND GUTTER, TYPE B-6.24
 - (D) EXISTING CONCRETE CURB & GUTTER TYPE M-6.12
 - (E) EXISTING SIDEWALK
 - (F) PARKWAY (GRASS AREA)
 - (G) EXISTING CONCRETE MEDIAN

- PROPOSED LEGEND**
- (1) PORTLAND CEMENT PAVEMENT (JOINTED), 10"
 - (2) AGGREGATE SUBGRADE, 12"
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 - (4) LANDSCAPING (SEE LANDSCAPING PLANS FOR DETAILS)
 - (5) PORTLAND CONCRETE CEMENT SIDEWALK, 5"
 - (6) NOT USED
 - (7) LONGITUDINAL CONSTRUCTION JOINT GROUTED IN PLACE, No. 6 TIE BAR AT 24" LONG, DEFORMED (EPOXY COATED) AT 24" CTS. (INCLUDED IN THE COST OF THE PROPOSED PAVEMENT)
 - (8) No. 6 TIE BAR AT 24" LONG, DEFORMED (EPOXY COATED) AT 24" CTS. (INCLUDED IN THE COST OF THE PROPOSED CURB AND GUTTER)
 - (9) TOPSOIL AND SOD OR SEED (SALT TOLERANT, SEE LANDSCAPING SHEETS)
 - (10) CONCRETE MEDIAN, TYPE SB-6.18
 - (11) COMBINATION CONCRETE CURB AND GUTTER, TYPE B6.18



LANDSCAPE MEDIAN DETAIL
AT SINGLE LEFT TURN LANE



MEDIAN DETAIL
AT DUAL LEFT TURN LANES
(SEE DISTRICT STANDARD 606301-02)

STRUCTURAL DESIGN TRAFFIC: Year 2015

PV= 49,943 SU= 1,629 MU= 2,714

ROAD/STREET CLASSIFICATION: Class I

PERCENT OF STRUCTURAL DESIGN TRAFFIC IN DESIGN LANE:

P= 8.0% S= 37% M= 37%

TRAFFIC FACTOR: Actual TF = 15.73%
Minimum TF = 4.95%

P.C.C. PAVEMENT - JOINTED = 10 Inch

SUBGRADE SUPPORT RATING:
SSR = POOR

REVISIONS	
NAME	DATE

ILLINOIS DEPARTMENT OF TRANSPORTATION
US RTE 6 (159TH ST) AT US RTE 45 (LAGRANGE RD)

US RTE 6 (159TH STREET)
TYPICAL SECTIONS

SCALE: N.T.S. DRAWN BY: JPW
DATE: 7-07-06 CHECKED BY: RCH

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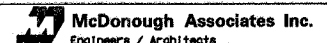
EARTHWORK SCHEDULE - 159TH ST

STATE	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
351	537 R-1	COOK	245	19
STA. _____		TO STA. _____		
FED. ROAD DIST. NO. _____		ILLINOIS FED. AID PROJECT		
CONTRACT # 62880				

BEGIN STATION	END STATION	EARTH EXCAVATION	REMOVAL AND DISPOSAL OF UNSUITABLE MATERIAL	EXCAVATION TO BE USED IN EMBANKMENT ADJUSTED FOR SHRINKAGE*	EMBANKMENT	EARTHWORK BALANCE WASTE (+) OR SHORTAGE (-)	POROUS GRANULAR EMBANKMENT, SUBGRADE
		CU. YD.	CU. YD.	CU. YD.	CU. YD.	CU. YD.	CU. YD.
421+00.00	421+50.00	275	0	235	50	185	0
421+50.00	421+62.19	135	0	115	25	90	0
421+62.19	422+00.00	360	5	305	75	230	0
422+00.00	422+50.00	440	5	375	100	275	0
422+50.00	423+00.00	490	10	415	100	315	0
423+00.00	423+50.00	500	10	425	115	310	0
423+50.00	424+00.00	385	10	325	135	190	0
424+00.00	424+50.00	270	5	230	145	85	0
424+50.00	425+00.00	230	5	195	140	55	0
425+00.00	425+50.00	105	5	90	65	25	0
425+50.00	426+00.00	170	5	145	110	35	0
426+00.00	426+50.00	150	5	130	95	35	0
426+50.00	427+00.00	145	5	125	85	40	0
427+00.00	427+50.00	150	5	130	85	45	0
427+50.00	428+00.00	165	5	140	90	50	0
428+00.00	428+50.00	220	5	185	60	125	0
428+50.00	429+00.00	265	0	225	80	145	0
429+00.00	429+50.00	180	5	155	175	-20	0
429+50.00	430+00.00	95	5	80	210	-130	0
430+00.00	430+50.00	105	5	90	180	-90	0
430+50.00	431+00.00	105	5	90	160	-70	0
431+00.00	431+50.00	90	5	75	140	-65	0
431+50.00	432+00.00	90	5	75	115	-40	0
432+00.00	432+50.00	130	5	110	60	50	0
432+50.00	432+66.65	65	0	55	5	50	0
432+66.65	433+00.00	165	5	140	5	135	0
433+00.00	433+50.00	275	15	235	10	225	0
433+50.00	434+00.00	135	10	115	5	110	0
434+00.00	434+50.00	5	5	5	5	0	0
434+50.00	435+00.00	5	5	5	5	0	0
435+00.00	435+50.00	205	10	175	5	170	0
435+50.00	436+00.00	450	15	385	10	375	0
436+00.00	436+50.00	485	15	410	5	405	0
436+50.00	437+00.00	485	10	410	5	405	0
437+00.00	437+06.71	70	0	60	5	55	0
437+06.71	437+50.00	385	5	325	10	315	0
437+50.00	438+00.00	370	15	315	20	295	0
438+00.00	438+36.90	255	10	215	20	195	0
438+36.90	438+50.00	90	0	75	10	65	0
438+50.00	439+00.00	325	10	275	45	230	0
439+00.00	439+50.00	295	20	250	50	200	0
439+50.00	440+00.00	250	10	215	60	155	0
440+00.00	440+03.04	15	0	15	5	10	0
440+03.04	440+50.00	190	0	160	70	90	0
440+50.00	440+59.89	35	0	30	15	15	0
440+59.89	441+00.00	120	5	100	55	45	0
441+00.00	441+41.60	95	5	80	55	25	0
441+41.60	441+50.00	20	0	15	15	0	0
441+50.00	442+00.00	95	5	80	65	15	0
442+00.00	442+50.00	75	10	65	75	-10	0
442+50.00	442+75.86	30	5	25	40	-15	0
442+75.86	443+00.00	30	5	25	35	-10	0
443+00.00	443+03.14	5	0	5	5	0	0
443+03.14	443+50.00	50	5	45	70	-25	0
443+50.00	443+83.97	35	5	30	50	-20	0
443+83.97	444+00.00	20	0	15	20	-5	0
444+00.00	444+12.15	15	5	15	15	0	0
444+12.15	444+50.00	35	5	30	45	-15	0
444+50.00	445+00.00	50	5	45	65	-20	0
445+00.00	445+24.78	35	5	30	30	0	0
445+24.78	445+50.00	45	5	40	20	25	0
445+50.00	445+62.78	30	5	25	10	15	0
445+62.78	446+00.00	95	5	80	20	60	0
446+00.00	446+50.00	145	5	125	25	100	0
446+50.00	447+00.00	180	10	155	25	130	0
447+00.00	447+50.00	265	10	225	15	210	0
SUB TOTAL		11,015	375	9,370	3,705	5,665	0

PAY ITEM	UNIT	LOCATION		TOTAL QUANTITY
		PARCEL 0004 NW CORNER QUANTITY	PARCEL 0001 NE CORNER QUANTITY	
NON-SPECIAL WASTE DISPOSAL	CU YDS	321	187	508
SPECIAL WASTE GROUNDWATER DISPOSAL	GAL	11856	0	11856
SPECIAL WASTE PLANS AND REPORTS	L. SUM	0.5	0.5	1
BACKFILL PLUGS	CU YD	29	14	43
ENGINEERED BARRIER	SQ YD	1009	537	1546
SOIL DISPOSAL ANALYSIS	EACH	4	2	6

2

REVISIONS		ILLINOIS DEPARTMENT OF TRANSPORTATION US RTE 6 (159TH ST) AT US RTE 45 (LAGRANGE RD)	
NAME	DATE	SCHEDULE OF QUANTITIES	
		SCALE: N/A	
		DRAWN BY: JPW	
		DATE: 7-07-06	
		CHECKED BY: RCH	
		 McDonough Associates Inc. Engineers / Architects	

Rev. 11-1-06

EARTHWORK SCHEDULE - US 45 AND 158TH PLACE

F.A.D. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
351	537 R-1	COOK	245	20
STA. _____		TO STA. _____		
FED. ROAD DIST. NO. _____		ILLINOIS FED. AID PROJECT		

CONTRACT # 62880

BEGIN STATION	END STATION	EARTH EXCAVATION CU. YD.	REMOVAL AND DISPOSAL OF UNSUITABLE MATERIAL CU. YD.	EXCAVATION TO BE USED IN EMBANKMENT ADJUSTED FOR SHRINKAGE* CU. YD.	EMBANKMENT CU. YD.	EARTHWORK BALANCE WASTE (+) OR SHORTAGE (-) CU. YD.	POROUS GRANULAR EMBANKMENT, SUBGRADE CU. YD.
158+00.00	158+50.00	45	5	40	40	0	0
158+50.00	159+00.00	20	5	15	45	-30	0
159+00.00	159+42.92	15	5	15	15	0	0
159+42.92	159+50.00	80	10	70	170	-100	0
159+50.00	160+00.00	30	5	25	25	0	0
160+00.00	160+10.89	80	15	70	195	-125	0
160+10.89	160+50.00	110	20	95	210	-115	0
160+50.00	161+00.00	60	20	50	315	-265	0
161+00.00	161+50.00	35	15	30	390	-360	0
161+50.00	162+00.00	40	15	35	440	-405	0
162+00.00	162+50.00	40	15	35	440	-405	0
162+50.00	163+00.00	45	200	40	425	-385	180
163+00.00	163+50.00	50	200	45	380	-335	180
163+50.00	164+00.00	50	385	45	305	-260	360
164+00.00	164+50.00	50	385	45	225	-180	360
164+50.00	165+00.00	50	390	45	165	-120	370
165+00.00	165+03.36	5	35	5	10	-5	30
165+03.36	165+50.00	40	370	35	125	-90	355
165+50.00	165+90.88	25	325	20	105	-85	320
165+90.88	166+00.00	5	75	5	30	-25	75
166+00.00	166+50.00	15	400	15	165	-150	400
166+50.00	167+00.00	20	400	15	165	-150	400
167+00.00	167+50.00	40	400	35	130	-95	400
167+50.00	168+00.00	65	400	55	90	-35	400
168+00.00	168+50.00	225	470	190	40	150	470
168+50.00	169+00.00	570	270	485	5	480	270
169+00.00	169+50.00	695	0	590	0	590	0
169+50.00	170+00.00	475	0	405	15	390	0
170+00.00	170+50.00	325	5	275	30	245	0
170+50.00	170+77.50	200	5	170	15	155	0
170+77.50	171+00.00	180	5	155	5	150	0
171+00.00	171+50.00	345	5	295	20	275	0
171+50.00	171+83.43	195	0	165	20	145	0
171+83.43	172+00.00	90	5	75	25	50	0
172+00.00	172+50.00	240	15	205	80	125	0
172+50.00	173+00.00	165	15	140	70	70	0
173+00.00	173+50.00	90	15	75	100	-25	0
173+50.00	174+00.00	50	10	45	145	-100	0
174+00.00	174+50.00	30	15	25	200	-175	0
174+50.00	175+00.00	15	145	15	260	-245	135
175+00.00	175+50.00	10	275	10	315	-305	270
175+50.00	176+00.00	15	310	15	400	-385	305
176+00.00	176+50.00	20	340	15	465	-450	340
176+50.00	177+00.00	10	345	10	460	-450	340
177+00.00	177+50.00	5	330	5	475	-470	325
177+50.00	178+00.00	0	300	0	495	-495	300
178+00.00	178+27.00	0	165	0	280	-280	165
178+27.00	178+50.00	0	140	0	245	-245	140
178+50.00	179+00.00	5	300	5	540	-535	300
179+00.00	179+50.00	5	285	5	575	-570	285
179+50.00	180+00.00	5	265	5	595	-590	265
180+00.00	180+50.00	5	245	5	575	-570	245
180+50.00	181+00.00	5	225	5	505	-500	220
181+00.00	181+50.00	5	215	5	320	-315	205
181+50.00	181+71.39	5	90	5	210	-205	85
181+71.39	182+00.00	10	110	10	270	-260	110
182+00.00	182+50.00	20	150	15	125	-110	150
182+50.00	182+64.39	10	25	10	40	-30	25
182+64.39	183+00.00	45	35	40	60	-20	35
183+00.00	183+50.00	105	45	90	15	75	45
183+50.00	184+00.00	70	30	60	5	55	25
SUB TOTAL		5,260	9,300	4,510	12,605	-8,095	8,885



158TH PLACE							
BEGIN STATION	END STATION	EARTH EXCAVATION	REMOVAL AND DISPOSAL OF UNSUITABLE MATERIAL	EXCAVATION TO BE USED IN EMBANKMENT ADJUSTED FOR SHRINKAGE*	EMBANKMENT	EARTHWORK BALANCE WASTE (+) OR SHORTAGE (-)	POROUS GRANULAR EMBANKMENT, SUBGRADE
28+00.00	28+50.00	30	0	25	20	5	0
28+50.00	29+00.00	100	5	85	5	80	0
29+00.00	29+50.00	30	5	25	20	5	0
29+50.00	30+00.00	5	5	5	5	0	0
30+00.00	30+50.00	25	5	20	25	-5	0
30+50.00	31+00.00	105	5	90	5	85	0
31+00.00	31+50.00	25	5	20	25	-5	0
31+50.00	32+00.00	0	0	0	0	0	0
SUB TOTAL		320	30	270	105	165	0

EARTH EXCAVATION	QUANTITY	UNIT
US RTE 45 EARTH EXCAVATION	5,260	CU. YD.
159TH STREET EARTH EXCAVATION	11,015	CU. YD.
158TH STREET EARTH EXCAVATION	320	CU. YD.
TOTAL EARTH EXCAVATION	16,595	CU. YD.

REMOVAL AND DISPOSAL OF UNSUITABLE MATERIAL	QUANTITY	UNIT
US RTE 45 EARTH EXCAVATION (TOPSOIL REMOVAL)	415	CU. YD.
QUANTITY FROM PGE (REMOVAL OF UNSUITABLE MATERIAL LESS TOPSOIL REMOVAL)	8,885	CU. YD.
159TH STREET EARTH EXCAVATION (TOP SOIL REMOVAL)	375	CU. YD.
158TH STREET EARTH EXCAVATION (TOP SOIL REMOVAL)	30	CU. YD.
TOTAL REMOVAL AND DISPOSAL OF UNSUITABLE MATERIAL	9,705	CU. YD.

FURNISHED EXCAVATION	QUANTITY	UNIT
US RTE 45 EARTH EXCAVATION	-8,095	CU. YD.
159TH STREET EARTH EXCAVATION	5,665	CU. YD.
158TH STREET EARTH EXCAVATION	165	CU. YD.
TOTAL FURNISHED EXCAVATION	-2,265	CU. YD.

POROUS GRANULAR EMBANKMENT, SUBGRADE	QUANTITY	UNIT
US RTE 45 REMOVAL OF UNSUITABLE MATERIAL	8,885	CU. YD.
159TH STREET	0	CU. YD.
158TH STREET	0	CU. YD.
TOTAL POROUS GRANULAR EMBANKMENT, SUBGRADE	8,885	CU. YD.

DESCRIPTION	QUANTITY	UNIT
EARTH EXCAVATION	16,595	CU. YD.
REMOVAL AND DISPOSAL OF UNSUITABLE MATERIAL	9,705	CU. YD.
FURNISHED EXCAVATION	2,265	CU. YD.
POROUS GRANULAR EMBANKMENT, SUBGRADE (PGE)	8,885	CU. YD.

REVISIONS	NAME	DATE

ILLINOIS DEPARTMENT OF TRANSPORTATION
US RTE 6 (159TH ST) AT US RTE 45 (LAGRANGE RD)

SCHEDULE OF QUANTITIES

SCALE: N/A
DATE: 7-07-06
DRAWN BY: BFH
CHECKED BY: RCH

McDonough Associates Inc.
Engineers / Architects

Rev. 11-1-06

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PROPOSED DRAINAGE STRUCTURE SCHEDULE

DRAWING NUMBER	STRUCTURE NUMBER	STATION	OFFSET	REINFORCED CONC		PRECAST REINFORCED CONCRETE			CATCH BASINS, TYPE A			CB, TYPE C		MANHOLES, TYPE A				MH DT	INLETS		JUNCTION CHAMBERS		SANITARY MANHOLE 4' DIA	RESTRICTOR MH TA 6'	SS PLUGS	
				END SECTIONS		FLARED END SECTIONS			4' DIAMETER			5' DIA	TYPE 1F	TYPE 8	4' DIA.	5' DIA.	6' DIA.		5' DIA.	TYPE A		TYPE				
				DOUBLE 24"	TRIPLE 24"	12"	18"	EQ RS 30"	T8 GRATE	T23 F&G	T24 F&G	T24 F&G	OPEN LTD	GRATE	T1F CL	T1F CL	T1F CL		T1F CL	T8 GRATE	T24 F&G	SPECIAL				1
EACH	EACH	EACH	EACH	EACH	EACH	EACH	EACH	EACH	EACH	EACH	EACH	EACH	EACH	EACH	EACH	EACH	EACH	EACH	EACH	EACH	EACH	EACH	EACH			
DU-1	160R2	160+83.60	36.1' RT	-	-	-	-	-	-	1	-	-	-	-	-	-	-	-	-	-	-	-	-	-		
DU-1	160C	160+91.81	0.0' LT	-	-	-	-	-	1	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-		
DU-1	161L	161+00.00	39.7' LT	-	-	-	-	-	-	1	-	-	-	-	-	-	-	-	-	-	-	-	-	-		
DU-1	161L1	161+11.20	57.1' LT	-	-	-	-	-	-	-	-	-	-	1	-	-	-	-	-	-	-	-	-	-		
DU-1	162R	162+40.00	44.7' RT	-	-	-	-	-	-	1	-	-	-	-	-	-	-	-	-	-	-	-	-	-		
DU-1	162L	162+50.00	45.2' LT	-	-	-	-	-	-	1	-	-	-	-	-	-	-	-	-	-	-	-	-	-		
DU-1	162L1	162+53.20	54.8' LT	-	-	-	-	-	-	-	-	-	-	1	-	-	-	-	-	-	-	-	-	-		
DU-1	164R	164+00.00	48.0' RT	-	-	-	-	-	-	1	-	-	-	-	-	-	-	-	-	-	-	-	-	-		
DU-1	164L	164+00.00	48.0' LT	-	-	-	-	-	-	1	-	-	-	-	-	-	-	-	-	-	-	-	-	-		
DU-1	164L1	164+03.30	54.7' LT	-	-	-	-	-	-	-	-	-	-	1	-	-	-	-	-	-	-	-	-	-		
DU-1	164R1	164+70.00	51.0' RT	-	-	-	-	-	-	1	-	-	-	-	-	-	-	-	-	-	-	-	-	-		
DU-2	165L2	165+50.00	7.5' LT	-	-	-	-	-	-	-	-	-	1	-	-	-	-	-	-	-	-	-	-	-		
DU-2	165L	165+50.00	48.0' LT	-	-	-	-	-	-	1	-	-	-	-	-	-	-	-	-	-	-	-	-	-		
DU-2	165L1	165+54.30	54.7' LT	-	-	-	-	-	-	-	-	-	-	1	-	-	-	-	-	-	-	-	-	-		
DU-2	166R	166+28.30	60.0' RT	-	-	-	-	-	-	1	-	-	-	-	-	-	-	-	-	-	-	-	-	-		
DU-2	166L	166+28.30	54.5' LT	-	-	-	-	-	-	-	-	-	-	1	-	-	-	-	-	-	-	-	-	-		
DU-2	167L	167+50.00	48.0' LT	-	-	-	-	-	-	1	-	-	-	-	-	-	-	-	-	-	-	-	-	-		
DU-2	167L1	167+54.27	53.9' LT	-	-	-	-	-	-	-	-	-	-	1	-	-	-	-	-	-	-	-	-	-		
DU-2	167R	167+71.40	60.0' RT	-	-	-	-	-	-	1	-	-	-	-	-	-	-	-	-	-	-	-	-	-		
DU-2	167L2	167+78.00	8.0' LT	-	-	-	-	-	-	1	-	-	-	-	-	-	-	-	-	-	-	-	-	-		
DU-2	167L3	167+84.80	59.0' LT	-	-	-	-	-	-	-	-	-	-	1	-	-	-	-	-	-	-	-	-	-		
DU-2	170R1	170+04.60	8.0' RT	-	-	-	-	-	-	1	-	-	-	-	-	-	-	-	-	-	-	-	-	-		
DU-2	170L1	170+04.30	65.4' LT	-	-	-	-	-	-	-	-	-	-	-	1	-	-	-	-	-	-	-	-	-		
DU-2	170L	170+40.00	60.0' LT	-	-	-	-	-	-	1	-	-	-	-	-	-	-	-	-	-	-	-	-	-		
DU-2	170R	170+40.00	48.0' RT	-	-	-	-	-	-	1	-	-	-	-	-	-	-	-	-	-	-	-	-	-		
DU-2	170L2	170+84.90	66.3' LT	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	1	-	-		
DU-2	171L	171+10.00	60.0' LT	-	-	-	-	-	-	1	-	-	-	-	-	-	-	-	-	-	-	-	-	-		
DU-2	171L1	171+25.00	59.7' LT	-	-	-	-	-	-	1	-	-	-	-	-	-	-	-	-	-	-	-	-	-		
DU-2	171L2	171+76.00	56.8' LT	-	-	-	-	-	-	-	-	-	-	1	-	-	-	-	-	-	-	-	-	-		
DU-2	171L3	171+91.50	62.4' LT	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	1	-	-		
DU-2	172L	172+65.00	51.7' LT	-	-	-	-	-	-	1	-	-	-	-	-	-	-	-	-	-	-	-	-	-		
DU-2	172L1	172+70.90	55.8' LT	-	-	-	-	-	-	-	-	-	-	-	-	1	-	-	-	-	-	-	-	-		
DU-2	172L2	172+74.20	68.1' LT	-	-	-	-	-	1	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-		
DU-2	172R	172+90.00	48.0' RT	-	-	-	-	-	-	-	-	-	-	1	-	-	-	-	-	-	-	-	-	-		
DU-2	173L	173+29.80	53.5' LT	-	-	-	-	-	-	-	-	-	-	-	1	-	-	-	-	-	-	-	-	-		
DU-2	173L1	173+03.60	42.0' LT	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	1	-	-		
DU-2	174L	174+00.00	48.0' LT	-	-	-	-	-	-	1	-	-	-	-	-	-	-	-	-	-	-	-	-	-		
DU-2	174L1	174+04.80	53.6' LT	-	-	-	-	-	-	-	-	-	-	-	1	-	-	-	-	-	-	-	-	-		
DU-2	174L2	174+32.80	12.0' LT	-	-	-	-	-	1	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-		
DU-2	175L	175+40.00	48.0' LT	-	-	-	-	-	-	1	-	-	-	-	-	-	-	-	-	-	-	-	-	-		
DU-2	175R	175+39.95	48.0' RT	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-		
DU-2	175L1	175+43.80	53.8' LT	-	-	-	-	-	-	-	-	-	-	-	1	-	-	-	-	-	-	-	-	-		
DU-2	175L2	175+71.50	4.3' LT	-	-	-	-	-	1	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-		
DU-2	175L3	175+16.62	42.0' LT	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	1	-	-		
DU-2	175R2	175+72.40	3.0' RT	-	-	-	-	-	-	1	-	-	-	-	-	-	-	-	-	-	-	-	-	-		
DU-2	175R1	175+86.20	57.1' RT	-	-	-	-	-	-	-	-	-	-	1	-	-	-	-	-	-	-	-	-	-		
DU-2	176R	176+86.40	56.8' RT	-	-	-	-	-	-	1	-	-	-	-	-	-	-	-	-	-	-	-	-	-		
DU-2	176L	176+82.80	53.8' RT	-	-	-	-	-	-	-	-	-	-	-	-	1	-	-	-	-	-	-	-	-		
DU-2	176L1	176+96.90	70.7' LT	-	-	-	-	-	-	-	-	-	-	-	1	-	-	-	-	-	-	-	-	-		
DU-2	176L2	176+93.87	42.0' LT	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	1	-	-		
SUB-TOTAL1				0	0	0	0	0	3	4	21	0	0	2	11	4	0	0	0	0	0	0	5	0		

• FLAT SLAB TOP
C - W/TYPED TF-1 CHECK VALVE

REVISIONS		DATE
NAME		

ILLINOIS DEPARTMENT OF TRANSPORTATION
US RTE 6 (159TH ST) AT US RTE 45 (LAGRANGE RD)

SCHEDULE OF QUANTITIES

DRAWN BY: JTF
CHECKED BY: RCH

DATE: 12-05-08

McDonough Associates Inc.
Engineers / Architects

Rev. 11-1-06

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STORM AND SANITARY SEWER SCHEDULE

DRAWING NUMBER	STRUCTURE	TO STRUCTURE	SS 1 RCP	SS 1 RCEP	SS 2 RCP	SS 2 RCP	SS 2 RCP	SS 2 RCP	SS 2 RCP	SS 2 RCP	SS 2 RCP	SS 2 RCP	SS 2 RCP	SS 2 RCP	SS 2 RCP	SS RG CL	STORM SEW	STORM SEW	STORM SEW	STORM SEW	SAN SEW	SAN SEW	PIPE CULV	PIPE CULV	TRENCH
			CL 4 12	S38R24	CL 3 12	CL 3 15	CL 3 18	CL 3 21	CL 3 24	CL 3 30	A 2 30	D I 15	D I 12	D I 21	D I 24	8	10	TYPE 1 24	TYPE 2 24	BACKFILL					
			FOOT	FOOT	FOOT	FOOT	FOOT	FOOT	FOOT	FOOT	FOOT	FOOT	FOOT	FOOT	FOOT	FOOT	FOOT	FOOT	FOOT	FOOT	FOOT	FOOT	FOOT	CU YD	
DU-5	167L2	167L3			48																				17
DU-5	167R	167L2			65																				24
DU-5	433R1	433R			6																				2
DU-5	423L6	432L								83															1
DU-5	433L	433L6			5																				14
DU-5	433L4	433L			40																				2
DU-5	433L5	433L4			6																				1
DU-5	433L3	433L6								26															3
DU-5	433L2	433L3			4																				10
DU-5	433L1	433L2			7																				26
DU-5	170L1	433L3					62																		18
DU-5	170L	170L1			32																				90
DU-5	170R1	170L1					70																		1
DU-5	170R	170R1			50																				3
DU-5	435L2	433L3								235															2
DU-5	435L1	435L2	11																						2
DU-5	435L	435L1	6																						24
DU-5	435R5	435L2					65																		15
DU-5	435R2	435R5					39																		4
DU-5	435R3	435R5	10																						2
DU-5	435R4	435R3	6																						3
DU-5	435R1	435R2															9								5
DU-5	435R	435R2															14								2
DU-5	436R2	435R															6								26
DU-5	436R	436R2															71								1
DU-5	436L1	435L2							43																26
DU-5	436L	436L1			5																				1
DU-5	436R1	436L			72																				20
DU-5	437L1	436L1							96																11
DU-5	437L	437L1			4																				15
DU-5	438L1	437L1							146																13
DU-5	438L	438L1			3																				20
DU-5	438R1	438L			54																				11
DU-5	438R	438R1			30																				1
DU-5	440L1	438L1					196																		15
DU-5	440L	440L1			6																				13
DU-5	440	440L			41																				29
DU-5	440R	440			36																				19
DU-5&6	442L	440L1															121								13
DU-6	442R	442L			54																				2
DU-6	444L	EXMH			37																				20
DU-6	445R	EXMH															80								13
DU-6	447R	447L2			53																				19
DU-6	447L2	447L			36																				13
DU-6	447L	447L1			5																				2
SUB-TOTAL3			33	0	699	367	350	0	344	0	0	121	180	0	0	0	0	0	0	0	0	0	0	0	475
TOTAL			406	0	2581	791	889	268	726	755	240	121	186	17	124	642	0	0	0	0	0	0	0	0	1712

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REVISIONS	
NAME	DATE

ILLINOIS DEPARTMENT OF TRANSPORTATION
 US RTE 6 (159TH ST) AT US RTE 45 (LAGRANGE RD)

SCHEDULE OF QUANTITIES

SCALE: N/A
 DATE: 12-05-06

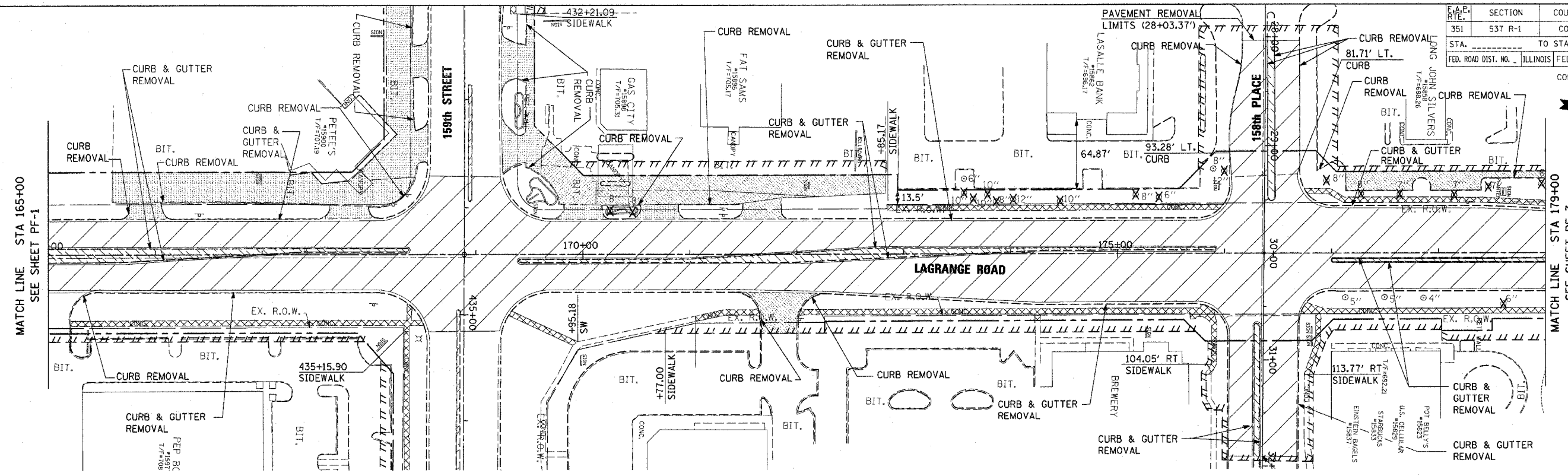
DRAWN BY: JTF
 CHECKED BY: RCH


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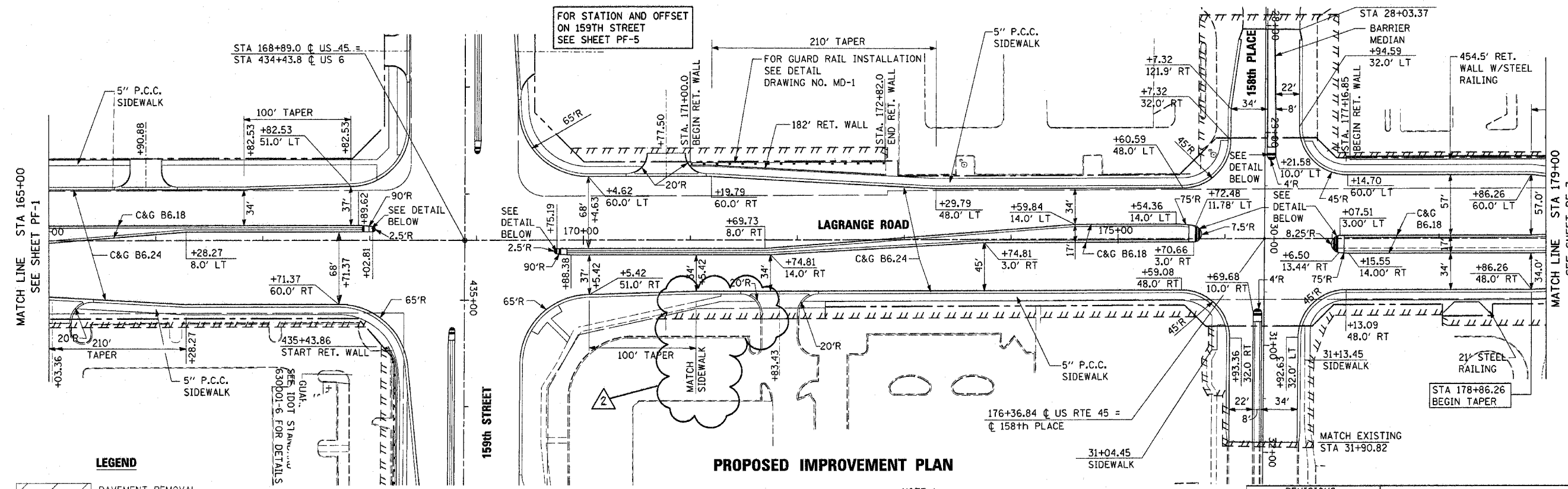
Rev. 11-1-06

E.A.P. NO.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
351	537 R-1	COOK	245	30

STA. 165+00 TO STA. 179+00
 FED. ROAD DIST. NO. ILLINOIS FED. AID PROJECT
 CONTRACT # 62880



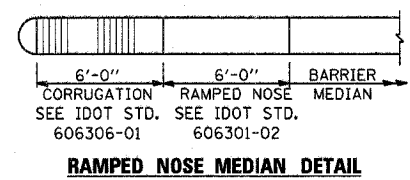
EXISTING CONDITIONS AND REMOVAL PLAN



PROPOSED IMPROVEMENT PLAN

LEGEND

	PAVEMENT REMOVAL
	MEDIAN REMOVAL
	SIDEWALK REMOVAL
	CONCRETE DRIVEWAY REMOVAL (PAID AS "DRIVEWAY PAVEMENT REMOVAL")
	BITUMINOUS DRIVEWAY/PARKING REMOVAL (PAID AS "DRIVEWAY PAVEMENT REMOVAL")
	5" TREE REMOVAL
	TEMPORARY EASEMENT



- NOTE 1:**
- ALL DRIVEWAY RECONSTRUCTION SHALL CONSIST OF PORTLAND CEMENT CONCRETE PAVEMENT 8". SEE SHEET DS-2 FOR DETAILS.
 - CONTRACTOR SHALL CONSTRUCT HANDICAP ACCESSIBILITY RAMPS AT ALL INTERSECTIONS AND DRIVEWAYS. SEE IDOT STANDARD 424001.

REVISIONS	
NAME	DATE

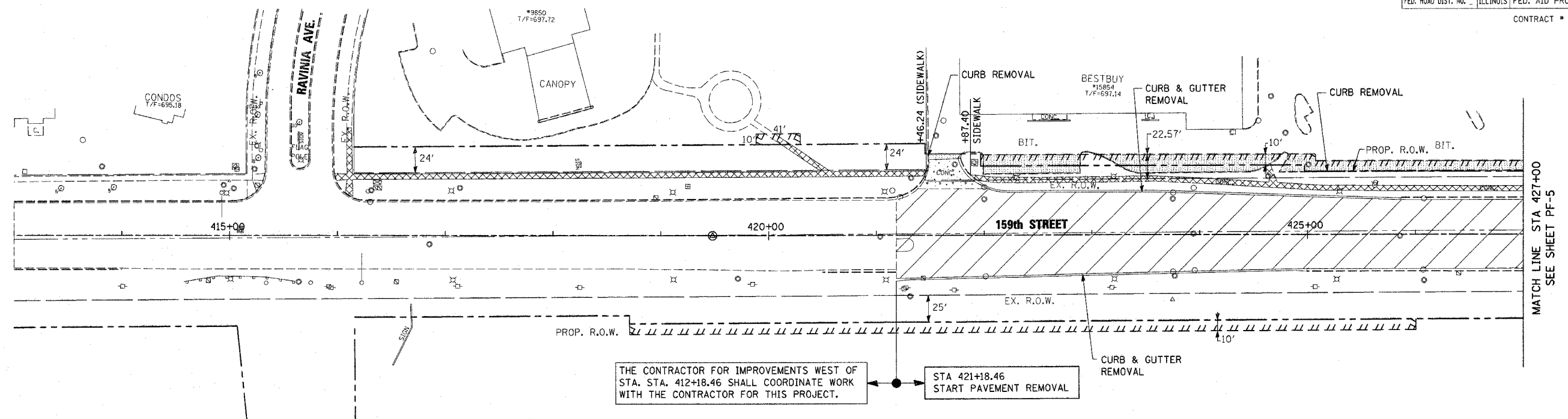
ILLINOIS DEPARTMENT OF TRANSPORTATION
 US RTE 6 (159TH ST) AT US RTE 45 (LAGRANGE RD)
 US RTE 45 (LAGRANGE ROAD)
 EXISTING AND PROPOSED PLAN
 STA 165+00 TO STA 179+00

SCALE: 1"=50'
 DATE: 7-07-06

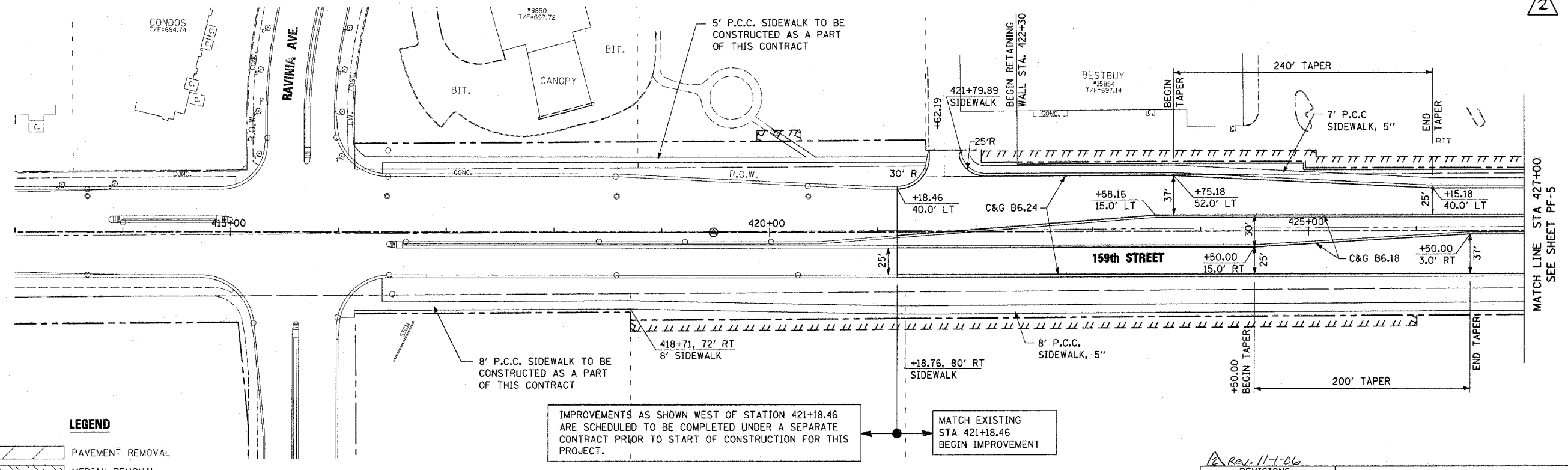
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 CHECKED BY: RCH

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 Engineers / Architects

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EXISTING CONDITIONS AND REMOVAL PLAN



PROPOSED IMPROVEMENT PLAN

LEGEND

	PAVEMENT REMOVAL
	MEDIAN REMOVAL
	SIDEWALK REMOVAL
	CONCRETE DRIVEWAY REMOVAL (PAID AS "DRIVEWAY PAVEMENT REMOVAL")
	BITUMINOUS DRIVEWAY/PARKING REMOVAL (PAID AS "DRIVEWAY PAVEMENT REMOVAL")
	5' TREE REMOVAL
	TEMPORARY EASEMENT

IMPROVEMENTS AS SHOWN WEST OF STATION 421+18.46 ARE SCHEDULED TO BE COMPLETED UNDER A SEPARATE CONTRACT PRIOR TO START OF CONSTRUCTION FOR THIS PROJECT.

MATCH EXISTING STA 421+18.46 BEGIN IMPROVEMENT

- NOTE 1:**
- ALL DRIVEWAY RECONSTRUCTION SHALL CONSIST OF PORTLAND CEMENT CONCRETE PAVEMENT 8". SEE SHEET DS-2 FOR DETAILS.
 - CONTRACTOR SHALL CONSTRUCT HANDICAP ACCESSIBILITY RAMPS AT ALL INTERSECTIONS AND DRIVEWAYS. SEE IDOT STANDARD 424001-03.

Rev. 11-7-06

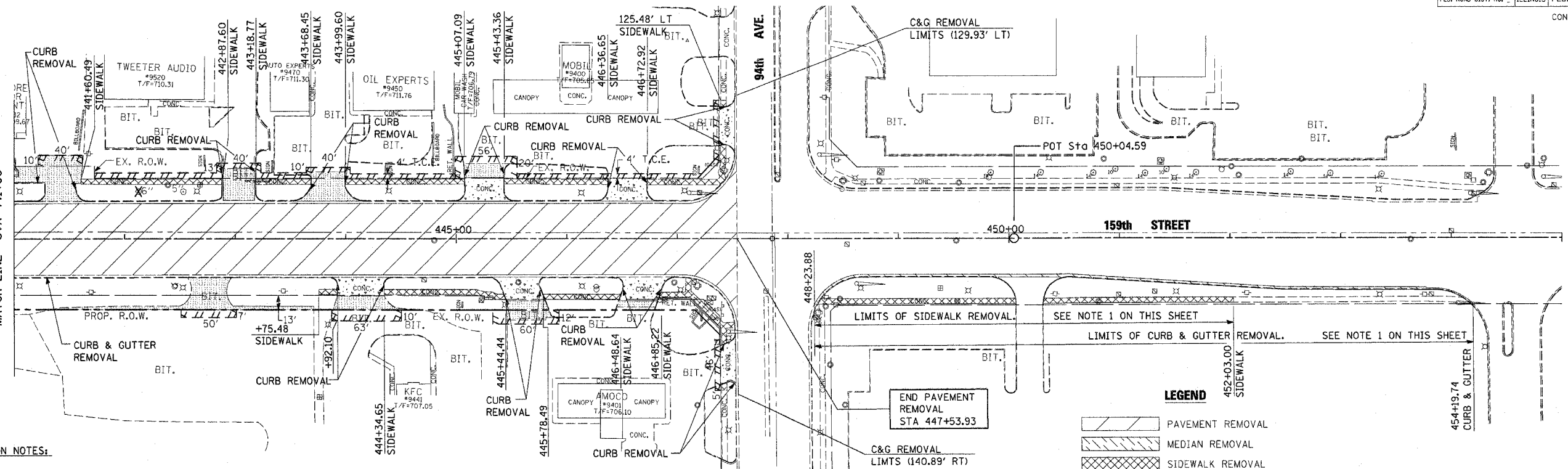
REVISIONS	NAME	DATE

ILLINOIS DEPARTMENT OF TRANSPORTATION
 US RTE 6 (159TH ST) AT US RTE 45 (LAGRANGE RD)
 US RTE 6 (159TH STREET)
 EXISTING AND PROPOSED PLAN
 STA 413+00 TO STA 427+00
 SCALE: 1"=50'
 DATE: 7-07-06
 DRAWN BY: JTF
 CHECKED BY: RCH

McDonough Associates Inc.
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CONTINUED FROM DRAWING PF-5
MATCH LINE STA 441+00



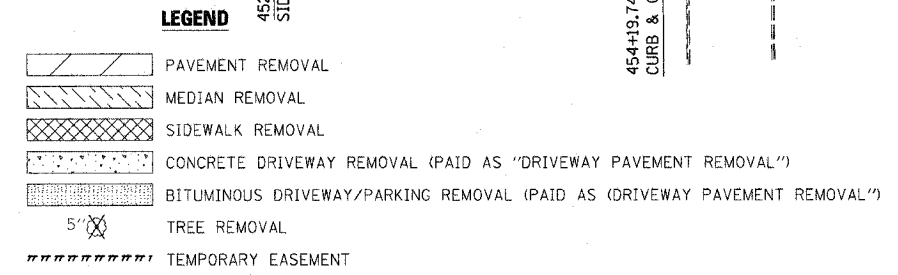
NOTE 1:

RESTORATION NOTES:

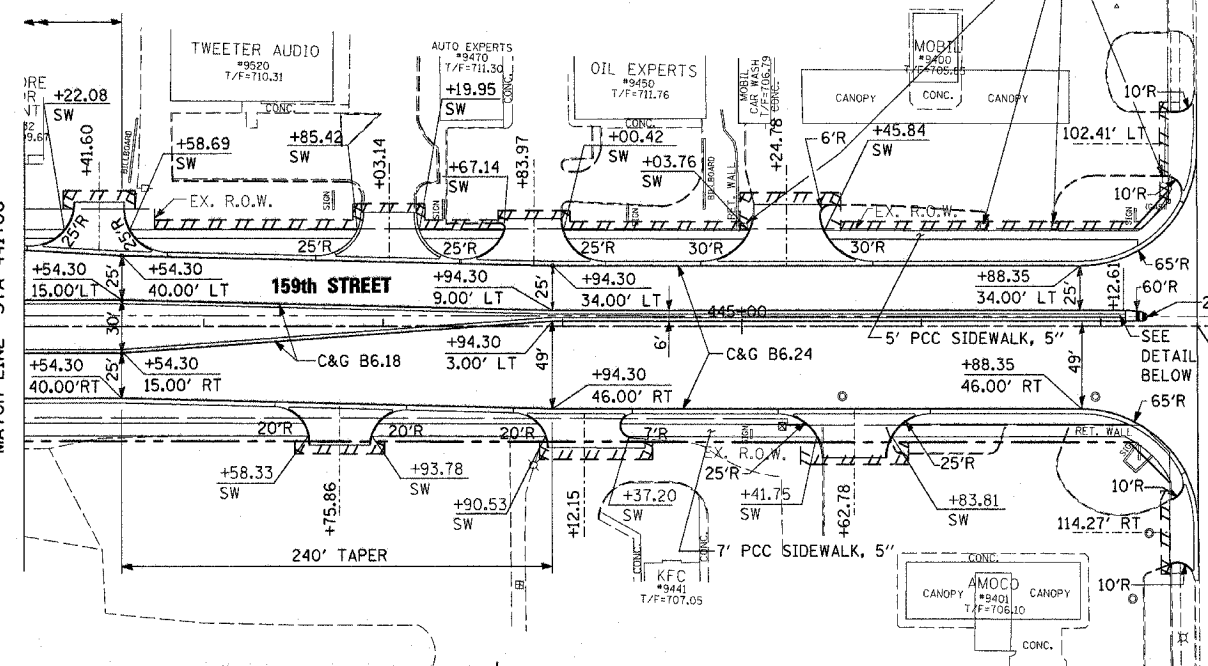
AT THE TEMPORARY PAVEMENT LOCATION, THE CONTRACTOR SHALL REMOVE AND REPLACE CURB & GUTTER, MEDIAN AND SIDEWALK IN-KIND FOR THE FOLLOWING LIMITS:

CURB & GUTTER LIMITS: STA. 448+23.88± TO STA. 454+19.74± (SOUTH ONLY)
SIDEWALK LIMITS: STA. 448+23.88± TO STA. 454+19.74± (SOUTH ONLY)

EXISTING LIGHTS WITHIN THIS PARCEL LIMITS TO REMAIN. PROTECT AS REQUIRED.

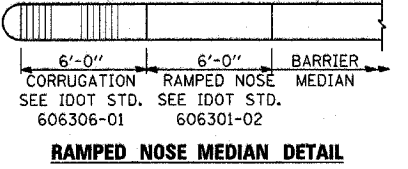


CONTINUED FROM DRAWING PF-5
MATCH LINE STA 441+00



NOTE 2:

- ALL DRIVEWAY RECONSTRUCTION SHALL CONSIST OF PORTLAND CEMENT CONCRETE PAVEMENT 8\"/>
- CONTRACTOR SHALL CONSTRUCT HANDICAP ACCESSIBILITY RAMPS AT ALL INTERSECTIONS AND DRIVEWAYS. SEE IDOT STANDARD 424001-03.



MATCH EXISTING STA 447+53.93
END IMPROVEMENT

PROPOSED IMPROVEMENT PLAN

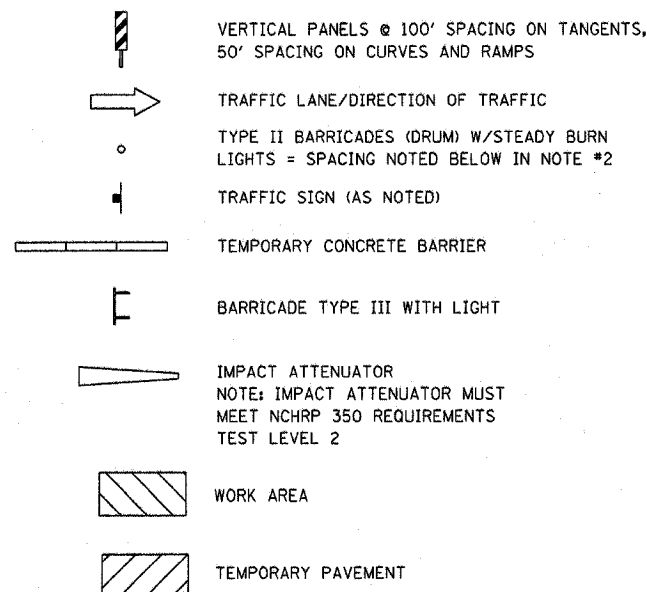
REVISIONS	
NAME	DATE

ILLINOIS DEPARTMENT OF TRANSPORTATION
US RTE 6 (159TH ST) AT US RTE 45 (LAGRANGE RD)
US RTE 6 (159TH STREET)
EXISTING AND PROPOSED PLAN
STA 441+00 TO 94TH AVE.
SCALE: 1"=50'
DATE: 7-07-06
DRAWN BY: JTF
CHECKED BY: RCH

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MOT LEGEND



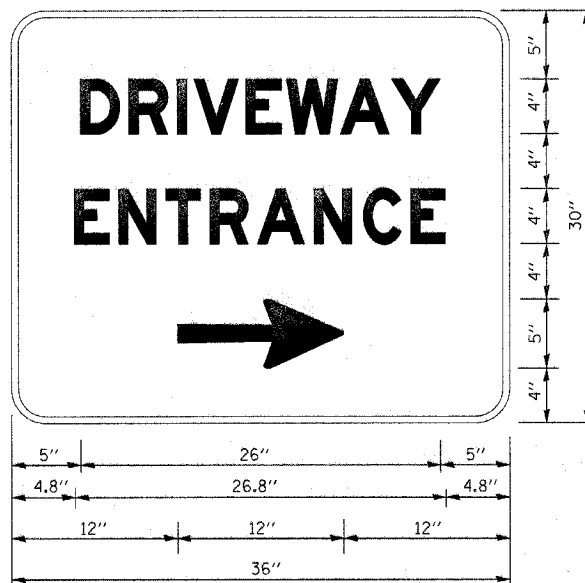
MAINTENANCE OF TRAFFIC GENERAL NOTES

1. TRAFFIC CONTROL SHALL BE PERFORMED IN ACCORDANCE WITH THE STANDARD SPECIFICATIONS FOR ROAD AND BRIDGE CONSTRUCTION, ILLINOIS MANUAL ON UNIFORM TRAFFIC CONTROL DEVICES AND THE APPLICABLE HIGHWAY STANDARD OR AS HEREIN SPECIFIED.
2. THE WORK ZONE WILL BE DELINEATED AT ALL TIMES THROUGHOUT CONSTRUCTION BY TYPE II BARRICADES OR DRUMS WITH MONODIRECTIONAL STEADY BURN LIGHTS AT 50' CENTERS ON TANGENTS AND 25' CENTERS ON TAPERS AND LANE SHIFTS AND 12' CENTERS ON RADII.
3. OPPOSING LANES OF TRAFFIC WILL BE DELINEATED AT ALL TIMES THROUGHOUT CONSTRUCTION BY TWO 4-INCH YELLOW TEMPORARY PAVEMENT MARKING LINES AT 11-INCH CENTERS.
4. THE COST OF FURNISHING, INSTALLING, MAINTAINING, RELOCATING, AND REMOVING ALL TRAFFIC CONTROL DEVICES INCLUDING BUT NOT LIMITED TO: DRUMS, BARRICADES, CONSTRUCTION SIGNS, WARNING LIGHTS, FLAGMEN, AND ALL OTHER MISCELLANEOUS DEVICES USED FOR THE PURPOSE OF RELOCATING OR DIRECTING TRAFFIC DURING CONSTRUCTION OF THIS IMPROVEMENT WILL BE INCLUDED IN THE CONTRACT LUMP SUM PRICE FOR TRAFFIC CONTROL AND PROTECTION. TEMPORARY PAVEMENT, TEMPORARY PAVEMENT MARKING LINES, PAVEMENT MARKING REMOVAL WILL BE PAID SEPARATELY.
5. WHERE PROVIDED, EXISTING TRAFFIC SIGNS SHALL BE RELOCATED FOR EACH CONSTRUCTION STAGE. THE COSTS ASSOCIATED WITH RELOCATING THE EXISTING SIGNS SHALL BE INCLUDED IN THE CONTRACT LUMP SUM PRICE OF TRAFFIC CONTROL AND PROTECTION.
6. ACCESS TO DRIVEWAYS AND SIDE ROADS IS TO BE MAINTAINED DURING CONSTRUCTION. ANY DELAYS OR INCONVENIENCES CAUSED THE CONTRACTOR BY COMPLYING WITH THESE REQUIREMENTS SHALL BE CONSIDERED AS INCIDENTAL TO THE CONTRACT AND NO ADDITIONAL COMPENSATION WILL BE ALLOWED.
7. TEMPORARY PAVEMENT MARKINGS SHALL BE WET TEMPORARY PAVEMENT MARKING TAPE, TYPE III ON EXISTING, TEMPORARY PAVEMENT OR ON NEW PAVEMENT PRIOR TO AND BEYOND THE CONSTRUCTION ZONE.
8. ALL AUXILIARY LANES SHALL BE 11' WIDE UNLESS OTHERWISE NOTED.
9. THE CONTRACTOR SHALL INSTALL WORK ZONE SPEED LIMIT SIGN ASSEMBLIES BEYOND EACH LEG OF THE INTERSECTION OF US 45 AND US 6 DURING ALL STAGES OF CONSTRUCTION.
10. "DRIVEWAY ENTRANCE" SIGNS SHALL BE INSTALLED AS SHOWN ON THE PLANS AND PAID FOR AS "TEMPORARY INFORMATION SIGNING".
11. WORK ZONE PUBLIC INFORMATION SIGNS SHALL BE PROVIDED AT LOCATIONS DIRECTED BY THE ENGINEER. THE MESSAGE AND SIZE OF THE SIGNS SHALL BE SPECIFIED BY THE DEPARTMENT. THE SIGNS SHALL BE INCLUDED FOR PAYMENT AS PART OF THE LUMP SUM COST FOR "TRAFFIC CONTROL AND PROTECTION (SPECIAL)".

SUGGESTED SEQUENCE OF CONSTRUCTION

- PRE STAGE:**
INSTALL TEMPORARY LIGHTING AND CONTROLLER. REMOVE EXISTING LIGHT POLES. SEE LIGHTING PLANS FOR LIGHTING PHASING NOTES. CONSTRUCT TEMPORARY PAVEMENT ALONG 159TH STREET AND US 45 REMOVE RAISED MEDIANS AND REPLACE WITH TEMPORARY PAVEMENT
- STAGE 1:**
SHIFT TRAFFIC TO EAST SIDE OF US 45 AND CONSTRUCT SOUTHBOUND LANES OF US 45
SHIFT TRAFFIC TO SOUTH SIDE OF 159TH STREET AND CONSTRUCT WESTBOUND LANES OF 159TH STREET
- STAGE 2:**
SHIFT SOUTHBOUND TRAFFIC TO NEWLY CONSTRUCTED LANES AND BUILD MEDIAN PAVEMENT OF US 45
SHIFT WESTBOUND TRAFFIC TO NEWLY CONSTRUCTED LANES AND BUILD MEDIAN PAVEMENT OF 159TH STREET
- STAGE 3:**
SHIFT TRAFFIC TO WEST SIDE OF US 45 AND CONSTRUCT NORTHBOUND LANES
SHIFT TRAFFIC TO NORTH SIDE OF 159TH STREET AND CONSTRUCT EASTBOUND LANES
- STAGE 4:**
SHIFT NORTHBOUND AND SOUTHBOUND 2 LANES OF TRAFFIC TO THE EAST SIDE AND WEST SIDE OF US 45 RESPECTIVELY. CLOSE BOTH INSIDE LANES BY UTILIZING IDOT STANDARD 701601-04 FOR SINGLE LANE CLOSURE AND COMPLETE THE CONSTRUCTION OF RAISED MEDIAN.
- SHIFT WESTBOUND AND EASTBOUND 2 LANES OF TRAFFIC TO THE NORTH SIDE AND SOUTH SIDE OF 159TH STREET RESPECTIVELY. CLOSE BOTH INSIDE LANES BY UTILIZING IDOT STANDARD 701601-04 FOR SINGLE LANE CLOSURE AND COMPLETE THE CONSTRUCTION OF RAISED MEDIAN.

DRIVEWAY ENTRANCE SIGNING

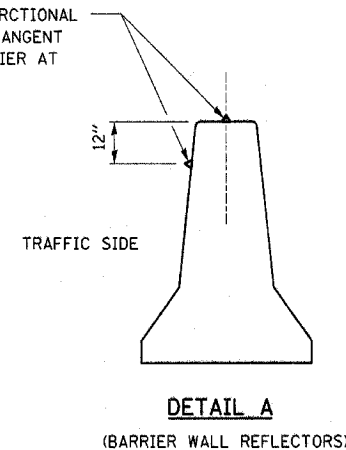


3.0" RADIUS, 0.5" BORDER, WHITE ON GREEN; REFLECTORIZED
"DRIVEWAY" D; "ENTRANCE" D; STANDARD ARROW CUSTOM 12.0"x5.0"

NOTES:

- HALF OF THE SIGNS WILL REQUIRE A LEFT HAND FACING ARROW.
- TWO SIGNS SHALL BE USED AT EACH COMMERCIAL ENTRANCE PLACED BACK-TO-BACK; ONE WITH THE RIGHT HAND ARROW (SHOWN) SHALL BE PLACED ON THE NEAR RIGHT SIDE THE DRIVEWAY AND ONE WITH A LEFT HAND ARROW SHALL BE PLACED ON THE FAR LEFT SIDE OF THE DRIVEWAY.
- SIGNS TO BE PAID FOR AS ITEM "TEMPORARY INFORMATION SIGNING".

TYPE "C" MONODIRECTIONAL REFLECTORS ON TANGENT PORTION OF BARRIER AT 50' CENTERS



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Rev. 11-1-06

REVISIONS	
NAME	DATE

ILLINOIS DEPARTMENT OF TRANSPORTATION
US RTE 6 (159TH ST) AT US RTE 45 (LAGRANGE RD)

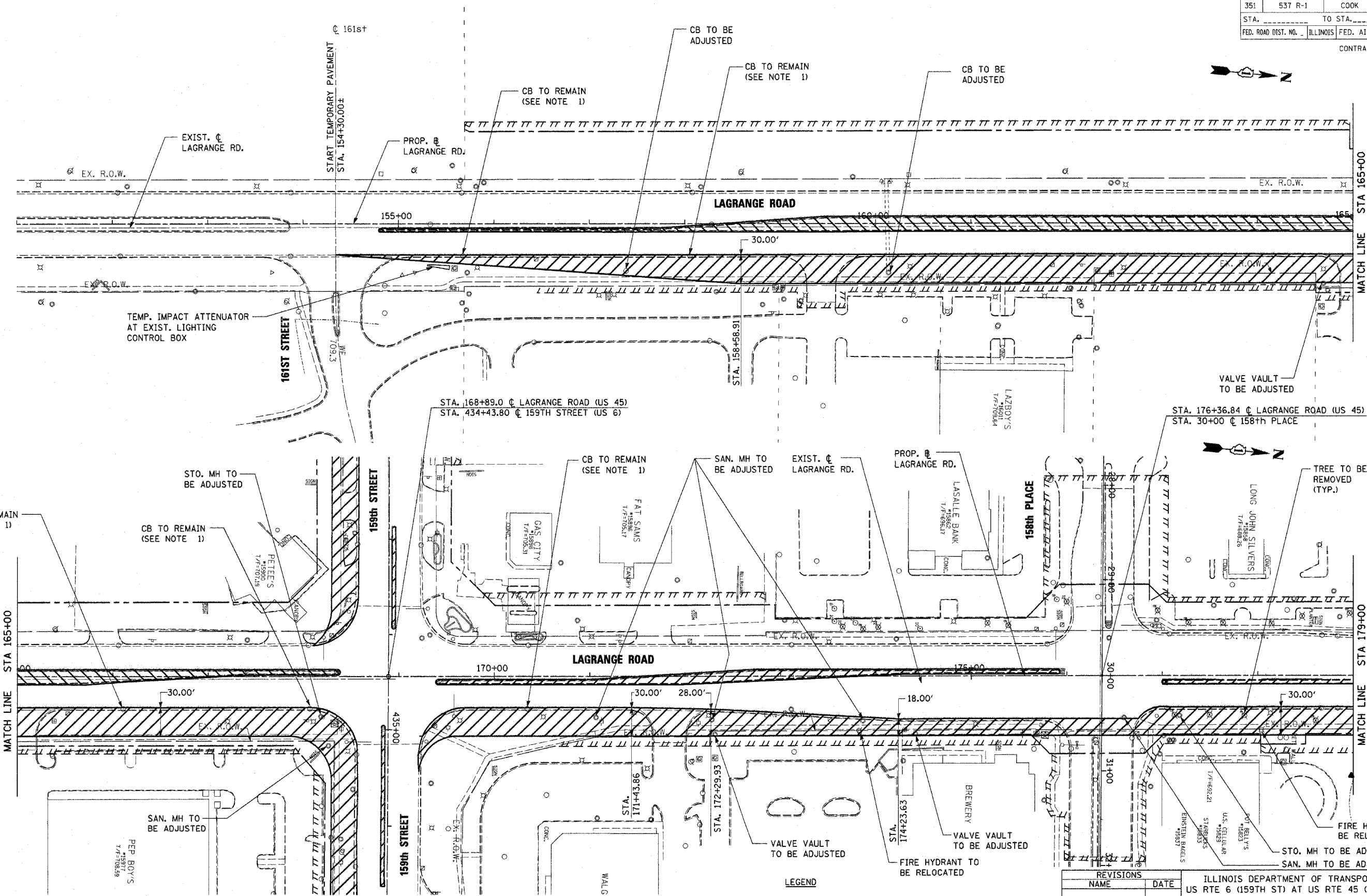
**MAINTENANCE OF TRAFFIC
LEGEND AND SYMBOLS**

SCALE: N/A
DATE: 7-07-06

DRAWN BY: TRK
CHECKED BY: RCH

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NOTE 1:
 THE CONTRACTOR SHALL UTILIZE ALL THE EXISTING CATCH BASINS LOCATED ON THE EAST EDGE OF LAGRANGE ROAD TO DRAIN THE TEMPORARY PAVEMENT. THE TEMPORARY PAVEMENT SHALL BE CONSTRUCTED WITH A MIN. OF 1% SLOPE TOWARDS THESE CATCH BASINS. SEE SHEET MT-2 FOR TYPICAL SECTIONS.

LEGEND
 TEMPORARY PAVEMENT AND AGGREGATE SHOULDER
 SEE MT-1 FOR MOT SYMBOLS LEGEND

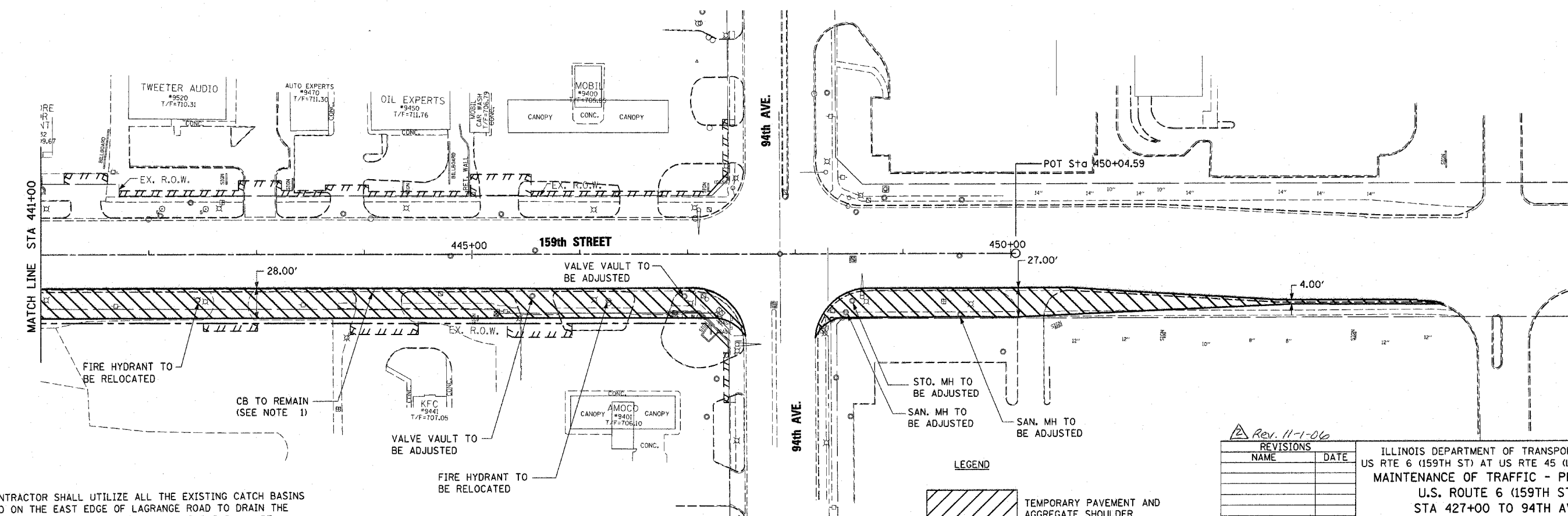
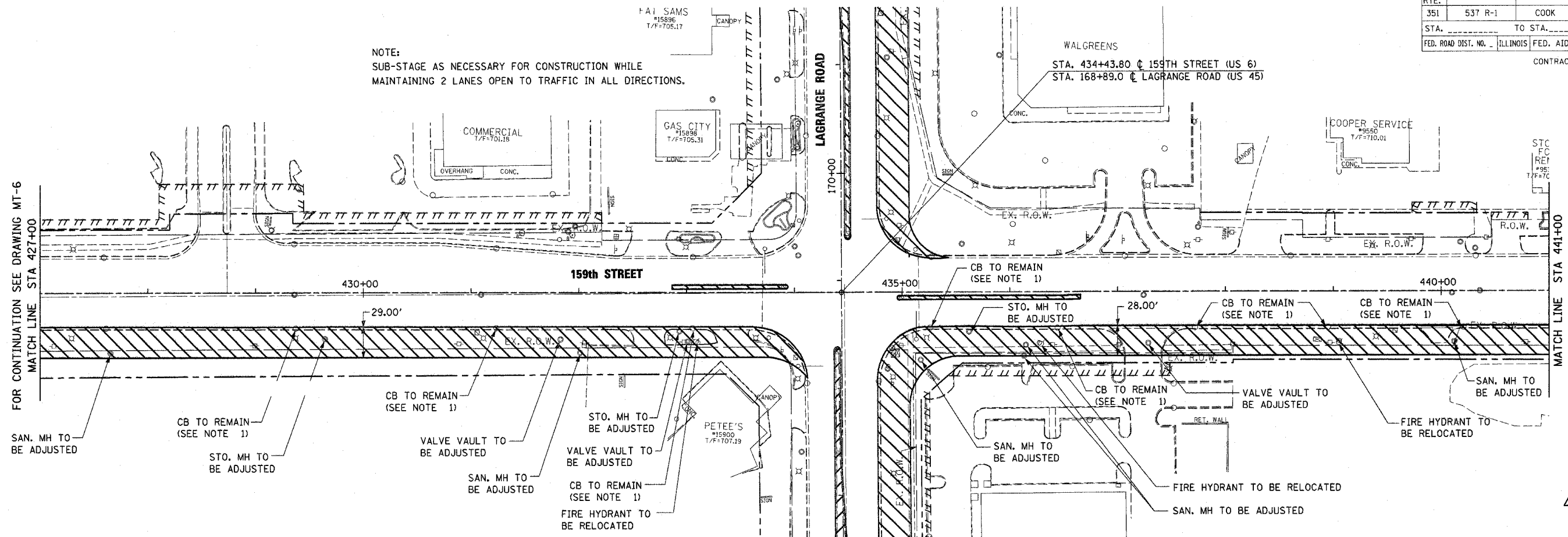
REVISIONS	
NAME	DATE

ILLINOIS DEPARTMENT OF TRANSPORTATION
 US RTE 6 (159TH ST) AT US RTE 45 (LAGRANGE RD)
MAINTENANCE OF TRAFFIC - PRE-STAGE
 U.S. 45 (LAGRANGE ROAD)
 STA 151+00 TO STA 179+00
 SCALE: 1"=50'
 DATE: 7-07-06
 DRAWN BY: TRK
 CHECKED BY: RCH
 McDonough Associates Inc.
 Engineers / Architects

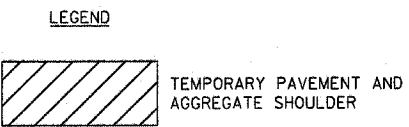
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STATE	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
351	537 R-1	COOK	245	46
STA. _____ TO STA. _____		ILLINOIS FED. AID PROJECT		
FED. ROAD DIST. NO. _____		CONTRACT # 62880		

NOTE:
SUB-STAGE AS NECESSARY FOR CONSTRUCTION WHILE
MAINTAINING 2 LANES OPEN TO TRAFFIC IN ALL DIRECTIONS.



NOTE 1:
THE CONTRACTOR SHALL UTILIZE ALL THE EXISTING CATCH BASINS
LOCATED ON THE EAST EDGE OF LAGRANGE ROAD TO DRAIN THE
TEMPORARY PAVEMENT. THE TEMPORARY PAVEMENT SHALL BE
CONSTRUCTED WITH A MIN. OF 1% SLOPE TOWARDS THESE
CATCH BASINS. SEE SHEET MT-2 FOR TYPICAL SECTIONS.



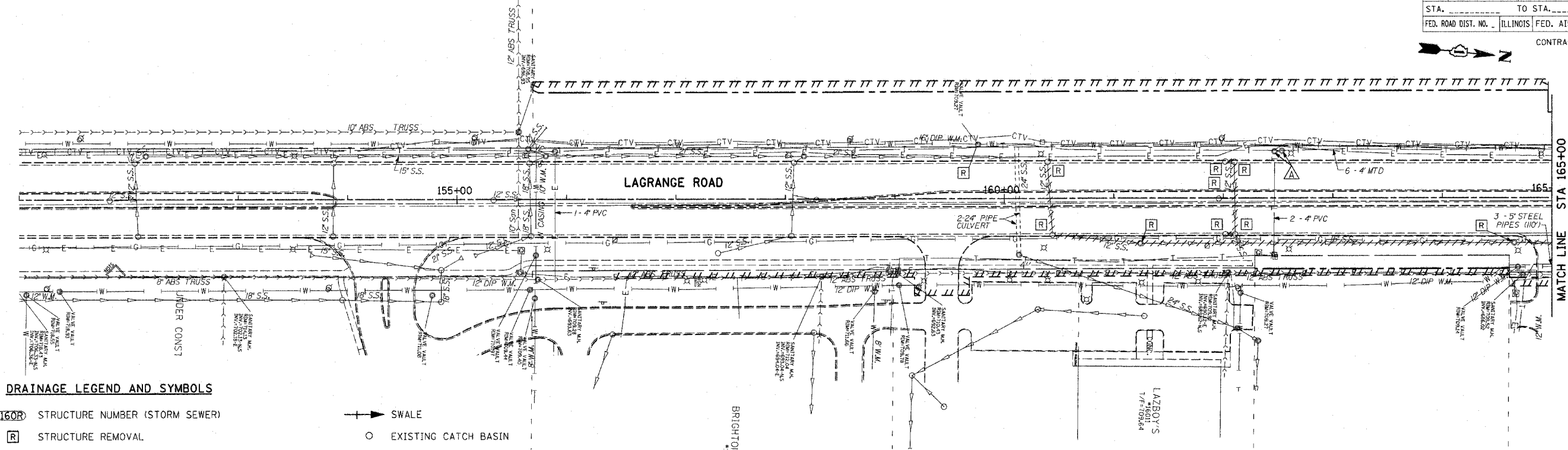
Rev. 11-1-06

REVISIONS	NAME	DATE

ILLINOIS DEPARTMENT OF TRANSPORTATION
US RTE 6 (159TH ST) AT US RTE 45 (LAGRANGE RD)
MAINTENANCE OF TRAFFIC - PRE-STAGE
U.S. ROUTE 6 (159TH ST.)
STA 427+00 TO 94TH AVE.
SCALE: 1"=50'
DATE: 7-07-06
DRAWN BY: TRK
CHECKED BY: RCH

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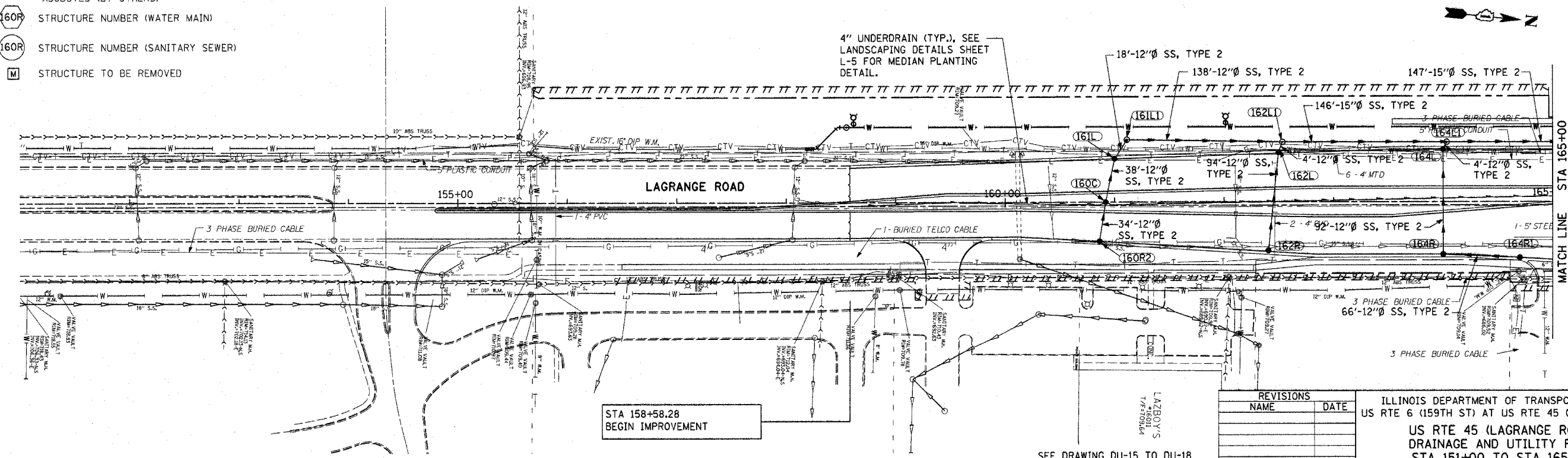
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DRAINAGE LEGEND AND SYMBOLS

- | | | | |
|--------|--|------|-------------------------------------|
| (160R) | STRUCTURE NUMBER (STORM SEWER) | → | SWALE |
| (R) | STRUCTURE REMOVAL | ○ | EXISTING CATCH BASIN |
| (ADJ) | STRUCTURE TO BE ADJUSTED | ● | PROPOSED CATCH BASIN |
| (REC) | STRUCTURE TO BE RECONSTRUCTED | ▷ | EXISTING CULVERT FLARED END SECTION |
| (F) | STRUCTURE TO BE FILLED | ▶ | PROPOSED CULVERT FLARED END SECTION |
| (RP) | REMOVE EXISTING DRAINAGE STRUCTURE AND PLUG EXISTING STORM SEWER | ---- | EXISTING UTILITY TO BE REMOVED |
| (A) | VALVE VAULT TO BE ADJUSTED | XXXX | EXISTING UTILITY TO BE ABANDONED |
| (△) | TELEPHONE MANHOLE TO BE REMOVED/ADJUSTED (BY OTHERS) | | |
| (160W) | STRUCTURE NUMBER (WATER MAIN) | | |
| (160S) | STRUCTURE NUMBER (SANITARY SEWER) | | |
| (M) | STRUCTURE TO BE REMOVED | | |

EXISTING CONDITIONS



PROPOSED IMPROVEMENTS

SEE DRAWING DU-15 TO DU-18 FOR WATER MAIN RELATED ITEMS

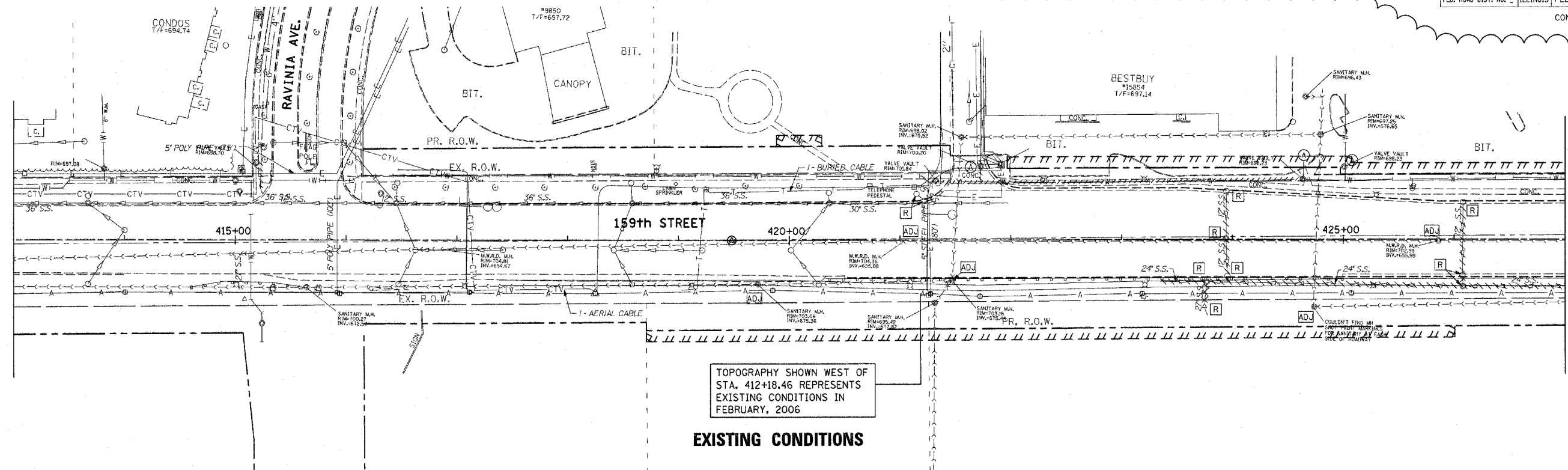
Rev. 11-1-06

REVISIONS	
NAME	DATE

ILLINOIS DEPARTMENT OF TRANSPORTATION
 US RTE 6 (159TH ST) AT US RTE 45 (LAGRANGE RD)
**US RTE 45 (LAGRANGE ROAD)
 DRAINAGE AND UTILITY PLAN
 STA 151+00 TO STA 165+00**
 SCALE: 1"=50'
 DATE: 7-07-06
 DRAWN BY: OJU
 CHECKED BY: RCH

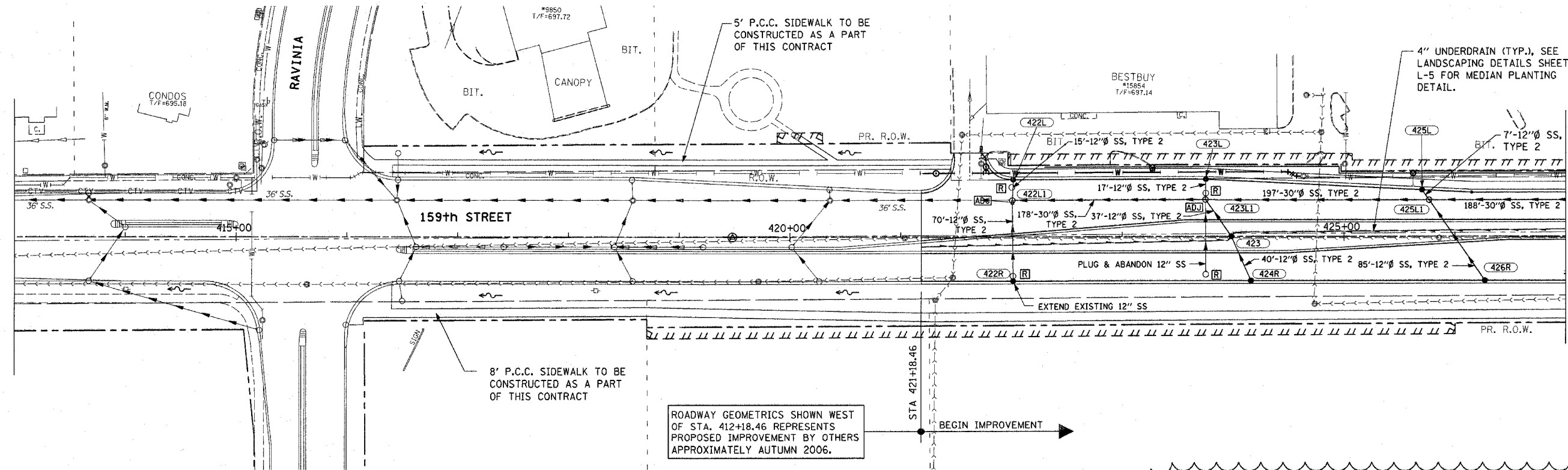
McDonough Associates Inc.
 Engineers / Architects

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TOPOGRAPHY SHOWN WEST OF STA. 412+18.46 REPRESENTS EXISTING CONDITIONS IN FEBRUARY, 2006

EXISTING CONDITIONS



ROADWAY GEOMETRICS SHOWN WEST OF STA. 412+18.46 REPRESENTS PROPOSED IMPROVEMENT BY OTHERS APPROXIMATELY AUTUMN 2006.

PROPOSED IMPROVEMENTS

SEE DRAWING DU-15 TO DU-18 FOR WATER MAIN RELATED ITEMS

Rev. 11-1-06

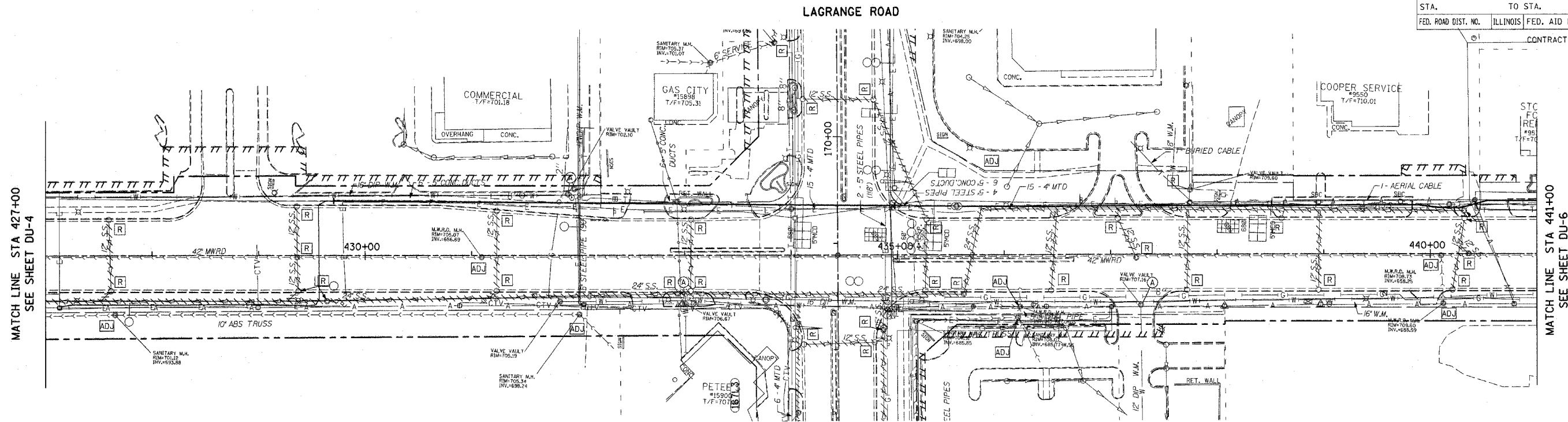
REVISIONS	
NAME	DATE

ILLINOIS DEPARTMENT OF TRANSPORTATION
 US RTE 6 (159TH ST) AT US RTE 45 (LAGRANGE RD)
US RTE 6 (159TH STREET)
DRAINAGE AND UTILITY PLAN
 STA 421+18.46 TO STA 427+00
 SCALE: 1"=50'
 DATE: 7-07-06
 DRAWN BY: OIU
 CHECKED BY: RCH

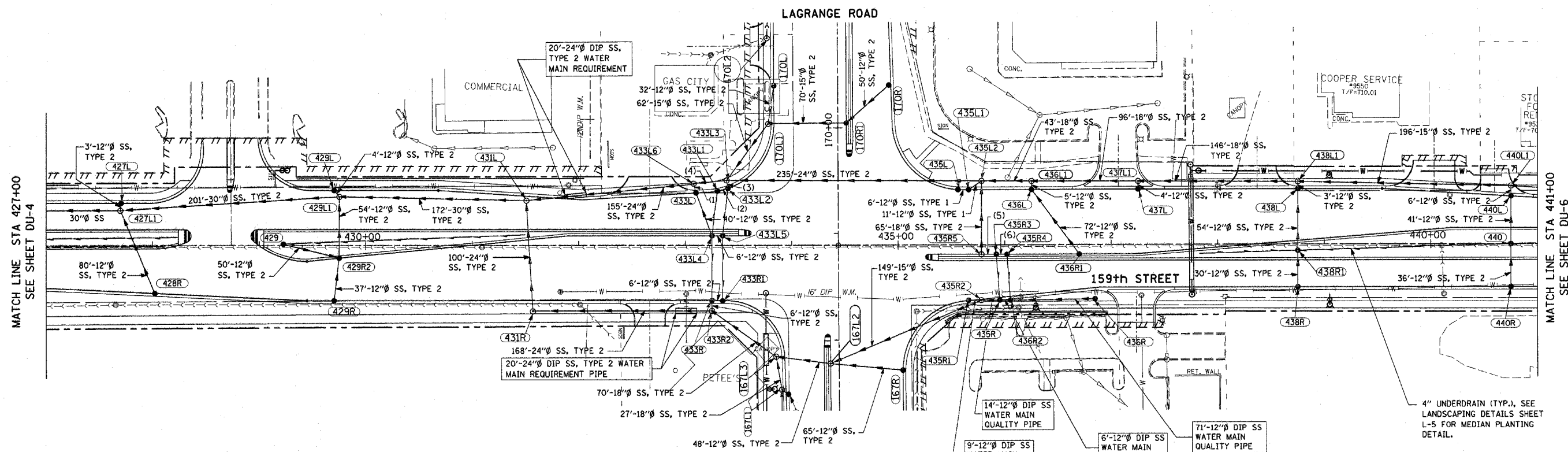
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F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
351	537 R-1	COOK	245	80
STA.	TO STA.			
FED. ROAD DIST. NO.	ILLINOIS	FED. AID PROJECT		
CONTRACT # 62880				



EXISTING CONDITIONS



PROPOSED IMPROVEMENTS

- (1) 5'-12" SS, TYPE 2
- (2) 7'-12" SS, TYPE 2
- (3) 4'-12" SS, TYPE 2
- (4) 26'-24" SS, TYPE 2
- (5) 10'-12" SS, TYPE 1
- (6) 6'-12" SS, TYPE 1

NOTES:
 1. SEE DU-17 TO DU-18 FOR WATER MAIN RELATED IMPROVEMENTS.
 2. SEE DU-1 TO DU-3 FOR THE IMPROVEMENTS ALONG US RT 45.

Rev. 11-06

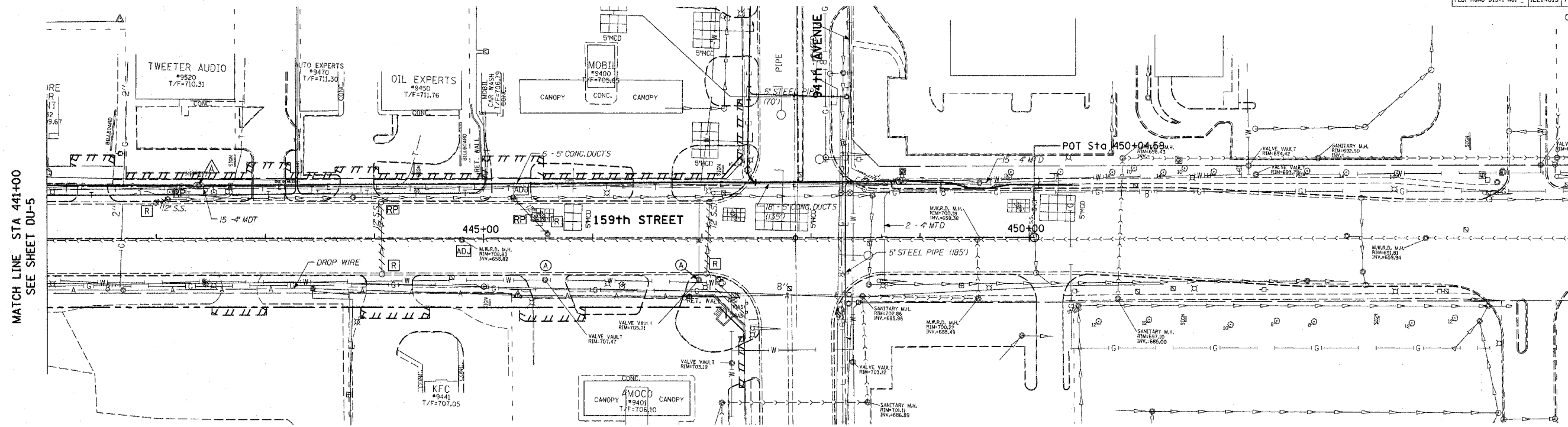
REVISIONS	NAME	DATE

ILLINOIS DEPARTMENT OF TRANSPORTATION
 US RTE 6 (159TH ST) AT US RTE 45 (LAGRANGE RD)
US RTE 6 (159TH STREET)
DRAINAGE AND UTILITY PLAN
STA. 427+00 TO STA 441+00
 SCALE: 1"=50'
 DATE: 7-07-06
 DRAWN BY: JTF
 CHECKED BY: OIU

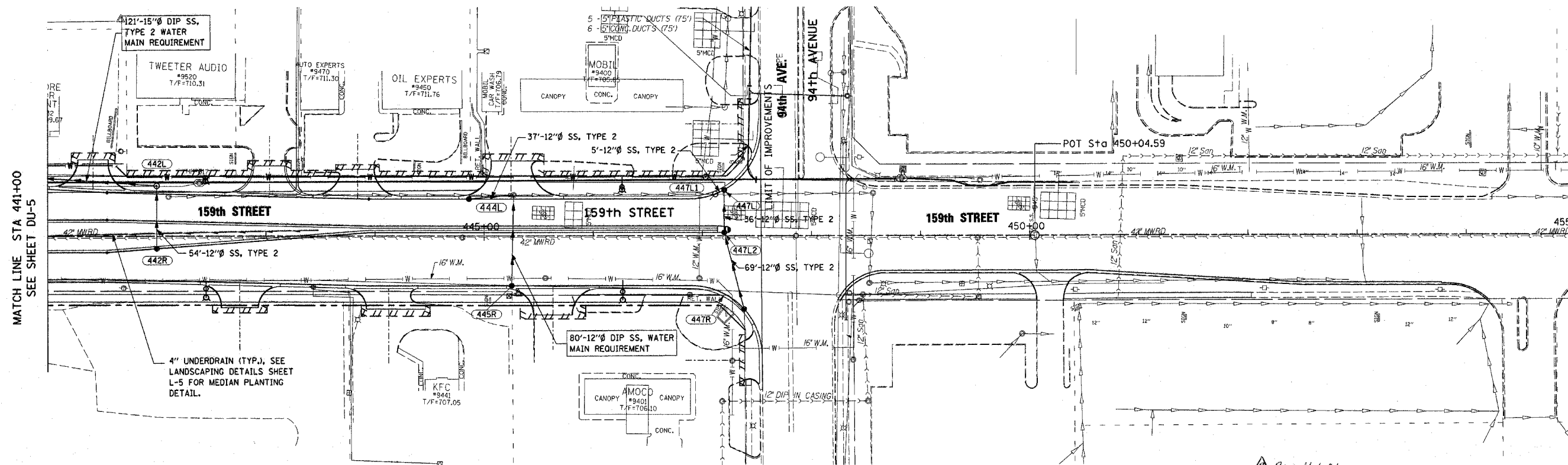
McDonough Associates Inc.
 Engineers / Architects

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F.A.D. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
351	537 R-1	COOK	245	81
STA. _____		TO STA. _____		
FED. ROAD DIST. NO. _____		ILLINOIS		FED. AID PROJECT
CONTRACT # 62880				



EXISTING CONDITIONS



PROPOSED IMPROVEMENTS

NOTE: SEE DU-15 TO DU-18 FOR WATER MAIN RELATED ITEMS.

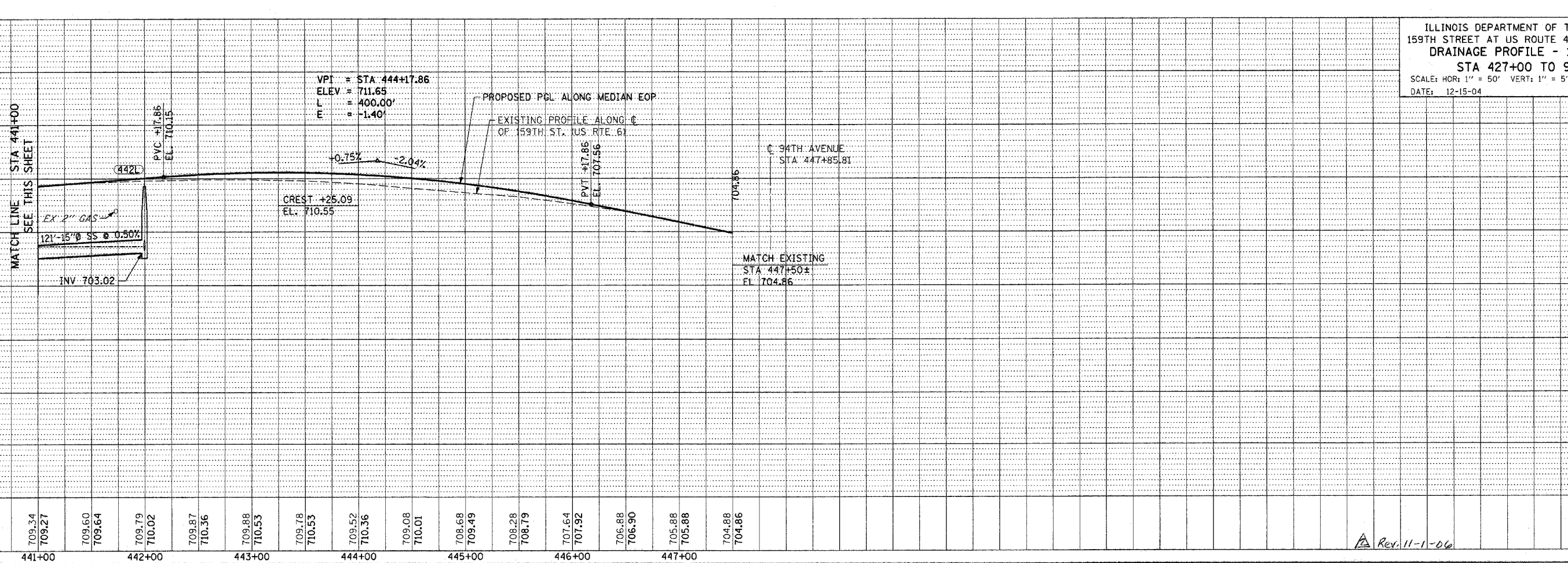
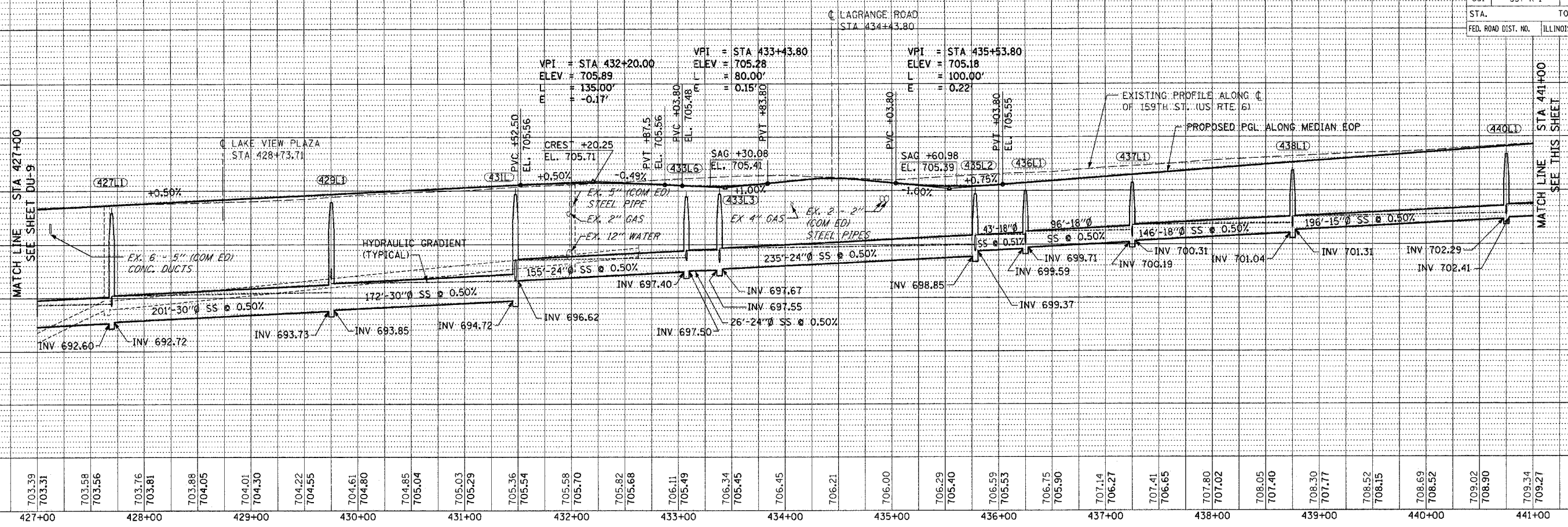
Rev 11-1-06

REVISIONS	
NAME	DATE

ILLINOIS DEPARTMENT OF TRANSPORTATION
 US RTE 6 (159TH ST) AT US RTE 45 (LAGRANGE RD)
 US RTE 6 (159TH STREET)
 DRAINAGE AND UTILITY PLAN
 STA 441+00 TO 94TH AVE.
 SCALE: 1"=50'
 DATE: 7-07-06
 DRAWN BY: OIU
 CHECKED BY: RCH

McDonough Associates Inc.
 Engineers / Architects

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ILLINOIS DEPARTMENT OF TRANSPORTATION
 159TH STREET AT US ROUTE 45 (LAGRANGE ROAD)
 DRAINAGE PROFILE - 159TH STREET
 STA 427+00 TO 94TH AVE.
 SCALE: HOR: 1" = 50' VERT: 1" = 5'
 DATE: 12-15-04
 DRAWN BY: OTU
 CHECKED BY: RCH

PLAN
 SURVEYED
 GRADES CHECKED
 ALIGNMENT CHECKED
 NOTE BOOK NO. []
 DATE []
 DRAWN BY []
 CHECKED BY []

PROFILE
 SURVEYED
 GRADES CHECKED
 ALIGNMENT CHECKED
 NOTE BOOK NO. []
 DATE []
 DRAWN BY []
 CHECKED BY []

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Rev. 11-1-06

F.A.E. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
351	537 R-1	COOK	245	86
STA. _____		TO STA. _____		
FED. ROAD DIST. NO.	ILLINOIS	FED. AID PROJECT		
CONTRACT # 62880				

DRAWING NO. DU-1
STA 158+58.28 TO STA 165+00

- | | |
|---|---|
| <p>160R2 STA 160+86.32, 36.1' RT
CATCH BASIN, TYPE A, 4' DIA.
W/ TYPE 24 FRAME & GRATE
RIM EL 711.00
INV EL 706.00</p> <p>160C STA 160+91.8, CENTERLINE
CATCH BASIN, TYPE A, 4' DIA.
W/ TYPE 8 GRATE
RIM EL 711.60
INV EL 705.04 (12" E,W)</p> <p>161L STA 161+00, 39.7' LT
CATCH BASIN, TYPE A, 4' DIA.
W/ TYPE 24 FRAME & GRATE
RIM EL 710.94
INV EL 704.08 (12" E,NW)</p> <p>161L1 STA 161+11.2, 57.1' LT
MANHOLE, TYPE A, 4' DIA.
W/ TYPE 1 FRAME, CLOSED LID
RIM EL 711.20
INV EL 703.27 (12" N)
INV EL 703.90 (12" SE)</p> <p>162R STA 162+40.43, 44.7' RT
CATCH BASIN, TYPE A, 4' DIA.
W/ TYPE 24 FRAME & GRATE
RIM EL 710.48
INV EL 704.64</p> <p>162L STA 162+49.62, 45.2' LT
CATCH BASIN, TYPE A, 4' DIA.
W/ TYPE 24 FRAME & GRATE
RIM EL 710.44
INV EL 702.76</p> <p>162L1 STA 162+53.2, 54.8' LT
MANHOLE, TYPE A, 4' DIA.
W/ TYPE 1 FRAME, CLOSED LID
RIM EL 710.75
INV EL 702.58 (12" S, SE)
INV EL 702.31 (15" N)</p> | <p>164R STA 164+00, 48.0' RT
CATCH BASIN, TYPE A, 4' DIA.
W/ TYPE 24 FRAME & GRATE
RIM EL 709.92
INV EL 703.85 (12" W)
INV EL 703.95 (12" N)</p> <p>164L STA 164+00, 48.0' LT
CATCH BASIN, TYPE A, 4' DIA.
W/ TYPE 24 FRAME & GRATE
RIM EL 709.92
INV EL 702.01 (12" E)
INV EL 701.91 (12" W)</p> <p>164L1 STA 164+03.3, 54.7' LT
MANHOLE, TYPE A, 4' DIA.
W/ TYPE 1 FRAME, CLOSED LID
RIM EL 710.22
INV EL 701.58 (15" S)
INV EL 701.83 (12" SE)
INV EL 701.46 (15" N)</p> <p>164R1 STA 164+70, 51.0' RT
CATCH BASIN, TYPE A, 4' DIA.
W/ TYPE 24 FRAME & GRATE
RIM EL 709.60
INV EL 704.61</p> |
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Rev. 11-1-06

REVISIONS		ILLINOIS DEPARTMENT OF TRANSPORTATION US RTE 6 (159TH ST) AT US RTE 45 (LAGRANGE RD)	
NAME	DATE		
		US RTE 45 (LAGRANGE ROAD) DRAINAGE NOTES	
		SCALE: N/A	DRAWN BY: JTF
		DATE: 7-07-06	CHECKED BY: OIU
		McDonough Associates Inc. Engineers / Architects	

E.A.B. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
351	537 R-1	COOK	245	87
STA. _____		TO STA. _____		
FED. ROAD DIST. NO. _____		ILLINOIS	FED. AID PROJECT	

CONTRACT # 62880

DRAWING NO. DU-2
STA 165+00 TO STA 179+00

165L2 STA 165+50, 7.5' LT
CATCH BASIN, TYPE C, 2' DIA.
W/ TYPE 8 GRATE
RIM EL 709.97
INV EL 706.50

165L STA 165+50, 48.0' LT
CATCH BASIN, TYPE A, 4' DIA.
W/ TYPE 24 FRAME & GRATE
RIM EL 709.39
INV EL 701.15 (12" E)
INV EL 701.05 (12" NW)

165L1 STA 165+54.3, 54.7' LT
MANHOLE, TYPE A, 4' DIA.
W/ TYPE 1 FRAME, CLOSED LID
RIM EL 709.68
INV EL 700.72 (15" S)
INV EL 700.97 (12" SE)
INV EL 700.45 (18" N)

166R STA 166+28.3, 60.0' RT
CATCH BASIN, TYPE A, 4' DIA.
W/ TYPE 24 FRAME & GRATE
RIM EL 708.73
INV EL 702.82

166L STA 166+28.3, 54.5' LT
MANHOLE, TYPE A, 4' DIA.
W/ TYPE 1 FRAME, CLOSED LID
RIM EL 709.30
INV EL 700.10 (18" S)
INV EL 699.97 (18" N)
INV EL 700.60 (12" E)
INV EL 700.60 (12" NW)

167L1 STA 167+50, 53.0' LT
CATCH BASIN, TYPE A, 4' DIA.
W/ TYPE 8 FRAME & GRATE
RIM EL 705.50
INV EL 701.00

167L STA 167+50, 48.0' LT
CATCH BASIN, TYPE A, 4' DIA.
W/ TYPE 24 FRAME & GRATE
RIM EL 707.81
INV EL 699.94

167L1 STA 167+54.27, 53.88' LT
MANHOLE, TYPE A, 4' DIA.
W/ TYPE 1 FRAME, CLOSED LID
RIM EL 708.10
INV EL 699.36 (18" S)
INV EL 699.24 (18" N)
INV EL 699.86 (12" SE)

167R STA 167+71.4, 60.0' RT
CATCH BASIN, TYPE A, 4' DIA.
W/ TYPE 24 FRAME & GRATE
RIM EL 707.17
INV EL 701.96

167L2 STA 167+78, 8.0' LT
MANHOLE, TYPE A, 5' DIA.
W/ TYPE 1 FRAME, CLOSED LID
RIM EL 707.79
INV EL 700.66 (12" E)
INV EL 699.89 (15" W)
INV EL 700.10 (15" NE)

167L3 STA 167+84.8, 59.0' LT
MANHOLE, TYPE A, 4' DIA.
W/ TYPE 1 FRAME, CLOSED LID
RIM EL 707.50
INV EL 699.10 (18" S)
INV EL 698.87 (18" NW)
INV EL 699.60 (12" E)

170R1 STA 170+04.6, 8.0' RT
CATCH BASIN, TYPE A, 4' DIA.
W/ TYPE 23 FRAME & GRATE
& WITH FLAT SLAB TOP
RIM EL 703.76
INV EL 699.07 (15" W)
INV EL 699.32 (12" NE)

170L1 STA 170+04.3, 65.4' LT
MANHOLE, TYPE A, 4' DIA.
W/ TYPE 1 FRAME, CLOSED LID
RIM EL 703.57
INV EL 698.62 (15" SW)
INV EL 698.97 (12" N)
INV EL 698.72 (15" E)

170L STA 170+40, 60.0' LT
CATCH BASIN, TYPE A, 4' DIA.
W/ TYPE 24 FRAME & GRATE
& WITH FLAT SLAB TOP
RIM EL 702.48
INV EL 699.48

170R STA 170+40, 48.0' RT
CATCH BASIN, TYPE A, 4' DIA.
W/ TYPE 24 FRAME & GRATE
& WITH FLAT SLAB TOP
RIM EL 702.78
INV EL 699.78

170L2 STA 170+84.9, 66.3' LT
SANITARY MH, TYPE A, 4' DIA.
W/ TYPE 1 FRAME, CLOSED LID
RIM EL 702.06
INV EL 697.96 (8" N)

171L STA 171+10, 60.0' LT
CATCH BASIN, TYPE A, 4' DIA.
W/ TYPE 24 FRAME & GRATE
RIM EL 701.24
INV EL 694.25

171L1 STA 171+25, 59.7' LT
CATCH BASIN, TYPE A, 4' DIA.
W/ TYPE 24 FRAME & GRATE
RIM EL 700.98
INV EL 693.81 (12" S)
INV EL 693.71 (12" N)

173L1 STA 173+04.0, 42.0' LT
MANHOLE, TYPE A, 4' DIA.
W/ TYPE 1 FRAME, CLOSED LID
RIM EL 698.25
INV EL 689.41 (18" W)
INV EL 689.31 (18" N)

171L2 STA 171+76, 56.8' LT
MANHOLE, TYPE A, 4' DIA.
W/ TYPE 1 FRAME, CLOSED LID
RIM EL 700.14
INV EL 691.83 (12" S)
INV EL 690.58 (15" N)

171L3 STA 171+91.5, 62.4' LT
SANITARY MH, TYPE A, 4' DIA.
W/ TYPE 1 FRAME, CLOSED LID
RIM EL 700.33
INV EL 695.24 (8" S)
INV EL 695.11 (8" N)

172L STA 172+65, 51.7' LT
CATCH BASIN, TYPE A, 4' DIA.
W/ TYPE 24 FRAME & GRATE
& WITH FLAT SLAB TOP
RIM EL 698.69
INV EL 695.19

172L1 STA 172+70.9, 55.8' LT
MANHOLE, TYPE A, 5' DIA.
W/ TYPE 1 FRAME, CLOSED LID
RIM EL 699.00
INV EL 690.05 (15" S)
INV EL 689.77 (18" N)
INV EL 691.30 (12" NW, NE)
INV EL 694.90 (12" SE)

172L2 STA 172+74.20, 68.05' LT
CATCH BASIN, TYPE A, 4' DIA.
W/ TYPE 8 GRATE
RIM EL 701.18
INV EL 690.46

172R STA 172+90, 48.0' RT
CATCH BASIN, TYPE C, 2' DIA.
W/ TYPE 24 FRAME & GRATE
RIM EL 698.34
INV EL 692.34

173L STA 173+04.0, 54.5' LT
MANHOLE, TYPE A, 4' DIA.
W/ TYPE 1 FRAME, CLOSED LID
RIM EL 698.46
INV EL 689.59 (18" S)
INV EL 689.47 (18" E)

174L STA 174+00, 48.0' LT
CATCH BASIN, TYPE A, 4' DIA.
W/ TYPE 24 FRAME & GRATE
RIM EL 696.38
INV EL 690.45 (12" NE)

174L1 STA 174+04.8, 42.0' LT
MANHOLE, TYPE A, 4' DIA.
W/ TYPE 1 FRAME, CLOSED LID
RIM EL 696.41
INV EL 690.37 (12" SW & NE)
INV EL 688.71 (18" S)
INV EL 688.62 (21" N)

174L2 STA 174+32.8, 12.0' LT
CATCH BASIN, TYPE A, 4' DIA.
W/ TYPE 23 FRAME & GRATE
RIM EL 696.45
INV EL 691.45

175L STA 175+40, 48.0' LT
CATCH BASIN, TYPE A, 4' DIA.
W/ TYPE 24 FRAME & GRATE
RIM EL 693.90
INV EL 688.62 (12" NE)

175R STA 175+39.95, 48.0' RT
CATCH BASIN, TYPE A, 4' DIA.
W/ TYPE 24 FRAME & GRATE
& WITH FLAT SLAB TOP
RIM EL 693.90
INV EL 689.36

175L1 STA 175+43.8, 53.8' LT
MANHOLE, TYPE A, 5' DIA.
W/ TYPE 1 FRAME, CLOSED LID
RIM EL 693.90
INV EL 687.94 (21" S)
INV EL 686.02 (21" N)
INV EL 688.59 (12" E, NE, SW)

175L2 STA 175+71.5, 4.3' LT
CATCH BASIN, TYPE A, 4' DIA.
W/ TYPE 8 FRAME & GRATE
RIM EL 693.75
INV EL 689.12 (12" E, SW)

175R2 STA 175+72.4, 3.0' RT
CATCH BASIN, TYPE A, 4' DIA.
W/ TYPE 23 FRAME & GRATE
& WITH FLAT SLAB TOP
RIM EL 693.83
INV EL 689.16

175R1 STA 175+78.9, 52.6' RT
CATCH BASIN, TYPE A, 4' DIA.
W/ TYPE 24 FRAME & GRATE
& WITH FLAT SLAB TOP
RIM EL 692.52
INV EL 689.71

176R STA 176+95.8, 51.2' RT
CATCH BASIN, TYPE A, 4' DIA.
W/ TYPE 24 FRAME & GRATE
RIM EL 691.13
INV EL 686.13

176L STA 176+82.8, 53.8' RT
MANHOLE, TYPE A, 5' DIA.
W/ TYPE 1 FRAME, CLOSED LID
RIM EL 691.43
INV EL 685.34 (21" S)
INV EL 685.21 (21" NW)

176L1 STA 176+96.9, 70.7' LT
MANHOLE, TYPE A, 5' DIA.
W/ TYPE 1 FRAME, CLOSED LID
RIM EL 691.12
INV EL 685.14 (21" SE)
INV EL 683.79 (24" N)
INV EL 685.52 (12" W)
INV EL 687.00 (12" SW)

177R STA 177+62, 48.0' RT
CATCH BASIN, TYPE A, 4' DIA.
W/ TYPE 24 FRAME & GRATE
RIM EL 690.79
INV EL 685.40 (12" W, S)

177L STA 177+62, 60.0' LT
CATCH BASIN, TYPE A, 4' DIA.
W/ TYPE 24 FRAME & GRATE
RIM EL 690.49
INV EL 684.36 (12" W, E)

177L1 STA 177+61.86, 69.60' LT
MANHOLE, TYPE A, 5' DIA.
W/ TYPE 1 FRAME, CLOSED LID
RIM EL 691.06
INV EL 683.20 (24" S)
INV EL 683.04 (24" N)
INV EL 684.32 (12" E)

178L1 STA 178+11.83, 69.57' LT
RESTRICTOR MANHOLE,
TYPE A, 6' DIA.
W/ TYPE 1 FRAME, CLOSED LID
RIM 690.41
INV EL 682.60 (24" N & S)
SEE DRAWING DU-21 FOR DETAILS

178L2 STA 178+27, 71.7' LT
JUNCTION CHAMBER NO. 1
W/ TYPE 1 FRAME, CLOSED LID
RIM 690.33
INV EL 682.50 (24" S)
INV EL 681.32 (2-36" E)
INV EL 681.32 (60" N)
SEE DRAWING DU-19 FOR DETAILS

178L3 STA 178+75.7, 58.0' LT
CATCH BASIN, TYPE A, 4' DIA.
W/ TYPE 24 FRAME & GRATE
RIM EL 690.06
INV EL 685.06

178R1 STA 178+75.7, 48.0' RT
CATCH BASIN, TYPE A, 4' DIA.
W/ TYPE 24 FRAME & GRATE
RIM EL 690.31
INV EL 685.31

178L6 STA 178+80.7, 3.0' LT
CATCH BASIN, TYPE A, 4' DIA.
W/ TYPE 23 FRAME & GRATE
RIM EL 690.83
INV EL 684.41

178L4 STA 178+85.7, 57.4' LT
CATCH BASIN, TYPE A, 4' DIA.
W/ TYPE 24 FRAME & GRATE
RIM EL 690.08
INV EL 684.94 (12" N, S)

178R2 STA 178+85.7, 48.0' RT
CATCH BASIN, TYPE A, 4' DIA.
W/ TYPE 24 FRAME & GRATE
RIM EL 690.31
INV EL 685.19 (12" N, S)

178L7 STA 178+90.7, 3.0' LT
CATCH BASIN, TYPE A, 4' DIA.
W/ TYPE 23 FRAME & GRATE
RIM EL 690.83
INV EL 684.29 (12" N, S)

178L5 STA 178+95.7, 56.8' LT
CATCH BASIN, TYPE A, 4' DIA.
W/ TYPE 24 FRAME & GRATE
RIM EL 690.10
INV EL 684.82 (12" S, NE)

178R3 STA 178+95.74, 48.0' RT
CATCH BASIN, TYPE A, 4' DIA.
W/ TYPE 24 FRAME & GRATE
RIM EL 690.32
INV EL 685.07

158TH PLACE

28R1 STA 28+28.59, 24.93' RT
CATCH BASIN, TYPE A, 4' DIA.
W/ TYPE 24 FRAME & GRATE
& WITH FLAT SLAB TOP
RIM EL 689.51
INV EL 686.56

28L1 STA 28+28.59, 31.72' LT
CATCH BASIN, TYPE A, 4' DIA.
W/ TYPE 24 FRAME & GRATE
& WITH FLAT SLAB TOP
RIM EL 689.56
INV EL 686.11

REVISIONS	
NAME	DATE

ILLINOIS DEPARTMENT OF TRANSPORTATION
US RTE 6 (159TH ST) AT US RTE 45 (LAGRANGE RD)
**US RTE 45 (LAGRANGE ROAD)
DRAINAGE NOTES**
SCALE: N/A
DATE: 7-07-06
DRAWN BY: JTF
CHECKED BY: OIU
McDonough Associates Inc.
Engineers / Architects

Rev. 11-1-06

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DRAWING NO. DU-5
STA 427+00 TO STA 441+00

431R STA 431+57.0, 62.1' RT
MANHOLE, TYPE A, 5' DIA.
W/ TYPE 1 FRAME, CLOSED LID
RIM EL 705.17
INV EL 697.17 (24" N)
INV EL 697.29 (24" E)

433L STA 433+10.1, 49.5' LT
CATCH BASIN, TYPE A, 4' DIA.
W/ TYPE 24 FRAME & GRATE
RIM EL 704.78
INV EL 699.78

433L4 STA 433+25.1, 9.0' LT
CATCH BASIN, TYPE A, 4' DIA.
W/ TYPE 23 FRAME & GRATE
RIM EL 704.93
INV EL 700.00

433R STA 433+25.08, 52.0' RT
CATCH BASIN, TYPE A, 4' DIA.
W/ TYPE 24 FRAME & GRATE
RIM EL 704.70
INV EL 699.43 (12" N,S,E)

433R2 STA 433+25.08, 61.8' RT
MANHOLE, TYPE A, 5' DIA.
W/ TYPE 1 FRAME, CLOSED LID
RIM EL 705.70
INV EL 698.11 (24" W)
INV EL 698.63 (18" SE)
INV EL 699.37 (12" N)

433R1 STA 433+35.08, 52.11' RT
CATCH BASIN, TYPE A, 4' DIA.
W/ TYPE 24 FRAME & GRATE
RIM EL 704.70
INV EL 699.43

433L6 STA 433+07.8, 58.3' LT
MANHOLE, TYPE A, 4' DIA.
W/ TYPE 1 FRAME, CLOSED LID
RIM EL 705.01
INV EL 697.40 (24" W)
INV EL 697.50 (24" E)
INV EL 698.50 (12" S)

433L5 STA 433+35.08, 9.0' LT
CATCH BASIN, TYPE A, 4' DIA.
W/ TYPE 23 FRAME & GRATE
RIM EL 704.93
INV EL 700.06

433L1 STA 433+30.1, 51.1' LT
CATCH BASIN, TYPE A, 4' DIA.
W/ TYPE 24 FRAME & GRATE
RIM EL 704.20
INV EL 699.62 (12" E,W)

433L3 STA 433+38.7, 61.4' LT
MANHOLE, TYPE A, 6' DIA.
W/ TYPE 1 FRAME, CLOSED LID
RIM EL 704.91
INV EL 697.55 (24" W)
INV EL 697.67 (24" E)
INV EL 698.32 (15" NE)
INV EL 699.51 (12" S)

433L2 STA 433+40.1, 53.8' LT
CATCH BASIN, TYPE A, 4' DIA.
W/ TYPE 24 FRAME & GRATE
RIM EL 704.20
INV EL 699.55 (12" W,N)

435R3 STA 435+92.1, 9.0' RT
CATCH BASIN, TYPE A, 4' DIA.
W/ TYPE 23 FRAME & GRATE
& WITH FLAT SLAB TOP
RIM EL 705.19
INV EL 702.00 (12" E)
INV EL 701.90 (12" W)

435L STA 435+55.98, 52.0' LT
CATCH BASIN, TYPE A, 4' DIA.
W/ TYPE 24 FRAME & GRATE
& WITH FLAT SLAB TOP
RIM EL 704.03
INV EL 701.69

435L1 STA 435+65.98, 52.0' LT
CATCH BASIN, TYPE A, 4' DIA.
W/ TYPE 24 FRAME & GRATE
& WITH FLAT SLAB TOP
RIM EL 704.03
INV EL 701.49 (12" W)
INV EL 701.39 (12" NE)

436R3 STA 436+02.1, 9.0' RT
CATCH BASIN, TYPE A, 4' DIA.
W/ TYPE 23 FRAME & GRATE
& WITH FLAT SLAB TOP
RIM EL 705.18
INV EL 702.18 (12" W)

435R1 STA 435+65.98, 52.1' RT
CATCH BASIN, TYPE A, 4' DIA.
W/ TYPE 24 FRAME & GRATE
& WITH FLAT SLAB TOP
RIM EL 704.53
INV EL 702.00

435R2 STA 435+78.1, 52.0' RT
MANHOLE, TYPE A, 4' DIA.
W/ TYPE 1 FRAME, CLOSED LID
& WITH FLAT SLAB TOP
RIM EL 705.00
INV EL 701.00 (15" SW)
INV EL 701.20 (12" E)
INV EL 701.50 (12" W)

435R5 STA 435+78.09, 9.00' RT
MANHOLE, TYPE A, 4' DIA.
W/ TYPE 1 FRAME, CLOSED LID
& WITH FLAT SLAB TOP
RIM EL 705.24
INV EL 700.50 (18" N)
INV EL 700.60 (15" S)
INV EL 701.60 (12" E)

435L2 STA 435+78.1, 60.34' LT
MANHOLE, TYPE A, 5' DIA.
W/ TYPE 1 FRAME, CLOSED LID
RIM EL 704.95
INV EL 698.85 (24" W)
INV EL 699.37 (18" E,S)
INV EL 699.62 (12" SW)

435R STA 435+95.3, 52.0' RT
CATCH BASIN, TYPE A, 4' DIA.
W/ TYPE 24 FRAME & GRATE
& WITH FLAT SLAB TOP
RIM EL 704.83
INV EL 701.53 (12" E)
INV EL 701.43 (12" W)

436R2 STA 436+05.4, 52.0' RT
CATCH BASIN, TYPE A, 4' DIA.
W/ TYPE 24 FRAME & GRATE
& WITH FLAT SLAB TOP
RIM EL 704.83
INV EL 701.73 (12" E)
INV EL 701.63 (12" W)

436L STA 436+25.09, 52.0' LT
CATCH BASIN, TYPE A, 4' DIA.
W/ TYPE 24 FRAME & GRATE
RIM EL 704.97
INV EL 700.01 (12" N,SE)

436L1 STA 436+25.09, 60.13' LT
MANHOLE, TYPE A, 4' DIA.
W/ TYPE 1 FRAME, CLOSED LID
RIM EL 705.47
INV EL 699.59 (18" W)
INV EL 699.71 (18" E)
INV EL 699.96 (12" SE)

436R1 STA 436+70.00, 9.0' RT
CATCH BASIN, TYPE A, 4' DIA.
W/ TYPE 23 FRAME & GRATE
RIM EL 705.69
INV EL 700.73

436R STA 436+84.87, 50.97' RT
CATCH BASIN, TYPE A, 4' DIA.
W/ TYPE 24 FRAME & GRATE
& WITH FLAT SLAB TOP
RIM EL 705.45
INV EL 702.44

437L STA 437+25.1, 52.0' LT
CATCH BASIN, TYPE A, 4' DIA.
W/ TYPE 24 FRAME & GRATE
RIM EL 705.72
INV EL 700.72

437L1 STA 437+25.09, 60.0' LT
MANHOLE, TYPE A, 4' DIA.
W/ TYPE 1 FRAME, CLOSED LID
RIM EL 705.81
INV EL 70.19 (18" W)
INV EL 700.31 (18" E)
INV EL 700.68 (12" S)

438L1 STA 438+75.1, 59.0' LT
MANHOLE, TYPE A, 4' DIA.
W/ TYPE 1 FRAME, CLOSED LID
RIM EL 707.33
INV EL 701.04 (18" W)
INV EL 701.31 (15" E)
INV EL 701.56 (12" S)

438L STA 438+75.1, 52.0' LT
CATCH BASIN, TYPE A, 4' DIA.
W/ TYPE 24 FRAME & GRATE
RIM EL 706.84
INV EL 701.59 (12" N,S)

438R1 STA 438+75.1, 6.0' RT
CATCH BASIN, TYPE A, 4' DIA.
W/ TYPE 8 GRATE
RIM EL 707.41
INV EL 702.13 (12" N,S)

438R STA 438+75.1, 40.0' RT
CATCH BASIN, TYPE A, 4' DIA.
W/ TYPE 24 FRAME & GRATE
& WITH FLAT SLAB TOP
RIM EL 707.09
INV EL 703.43

440R STA 440+75.1, 40.0' RT
CATCH BASIN, TYPE A, 4' DIA.
W/ TYPE 24 FRAME & GRATE
RIM EL 708.58
INV EL 703.58

440 STA 440+75.1, CENTERLINE
CATCH BASIN, TYPE A, 4' DIA.
W/ TYPE 8 GRATE
RIM EL 709.08
INV EL 703.22 (12" N,S)

440L STA 440+75.1, 44.75' LT
CATCH BASIN, TYPE A, 4' DIA.
W/ TYPE 24 FRAME & GRATE
RIM EL 708.49
INV EL 702.81 (12" N,S)

440L1 STA 440+75.1, 54.50' LT
MANHOLE, TYPE A, 4' DIA.
W/ TYPE 1 FRAME, CLOSED LID
RIM EL 708.61
INV EL 702.41 (15" E)
INV EL 702.75 (12" S)

DRAWING NO. DU-6
STA 441+00 TO 94TH AVENUE

442L STA 441+99.8, 46.3' LT
MANHOLE, TYPE A, 4' DIA.
W/ TYPE 1 FRAME, CLOSED LID
RIM EL 709.89
INV EL 703.02 (15" W)
INV EL 703.90 (12" W)

442R STA 442+00.0, 11.57' RT
CATCH BASIN, TYPE A, 4' DIA.
W/ TYPE 23 FRAME & GRATE
RIM EL 709.98
INV EL 704.98

444L STA 444+86.08, 34.0' LT
CATCH BASIN, TYPE A, 4' DIA.
W/ TYPE 24 FRAME & GRATE
RIM EL 709.15
INV EL 704.15

ADJ STA 445+26.98, 37.51' LT
ADJUST EXISTING MANHOLE
W/ NEW TYPE 1 FRAME, CL
RIM EL 707.60 (EXISTING)
RIM EL 708.67 (PROPOSED)
INV EL 692.05 (E,W-MAINTAIN EX)
INV EL 701.82 (12" S)
INV EL 703.41 (12" SW)

445R STA 445+25.09, 46.0' RT
CATCH BASIN, TYPE A, 4' DIA.
W/ TYPE 24 FRAME & GRATE
RIM EL 708.42
INV EL 703.42

447L1 STA 447+11.89, 38.41' LT
MANHOLE, TYPE A, 5' DIA.
W/ TYPE 1 FRAME, CLOSED LID
RIM EL 705.03
INV EL 690.92 (27" W)
INV EL 690.88 (27" E)
INV EL 698.58 (12" NE)
CONSTRUCT ON EXISTING 27" SS

447L STA 447+20.0, 42.22' LT
CATCH BASIN, TYPE A, 4' DIA.
W/ TYPE 24 FRAME & GRATE
RIM EL 704.80
INV EL 698.68 (12" S)
INV EL 698.58 (12" SW)

447L2 STA 447+20.0, 3.0' LT
CATCH BASIN, TYPE A, 4' DIA.
W/ TYPE 23 FRAME & GRATE
RIM EL 705.29
INV EL 699.04 (12" S,N)

447R STA 447+20.0, 53.57' RT
CATCH BASIN, TYPE A, 4' DIA.
W/ TYPE 24 FRAME & GRATE
RIM EL 704.57
INV EL 699.57



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Rev. 11-1-06

REVISIONS	DATE

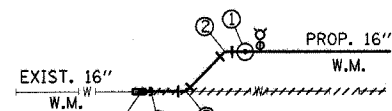
ILLINOIS DEPARTMENT OF TRANSPORTATION
US RTE 6 (159TH ST) AT US RTE 45 (LAGRANGE RD)

**US RTE 6 (159TH STREET)
DRAINAGE NOTES**

SCALE: N/A
DATE: 7-07-06

DRAWN BY: JTF
CHECKED BY: OIU

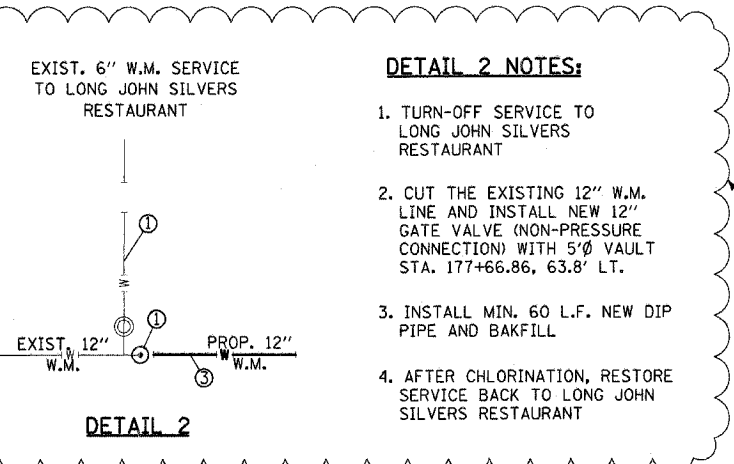
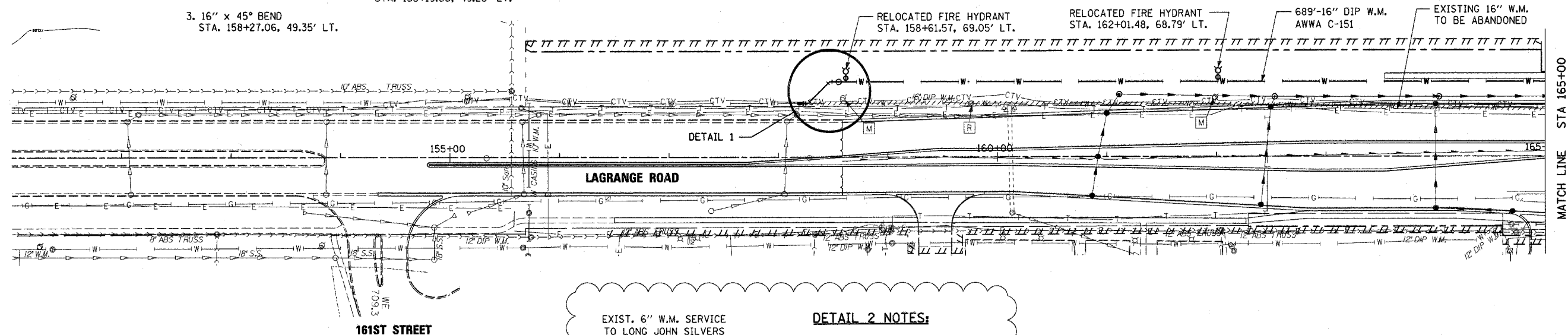
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DETAIL 1

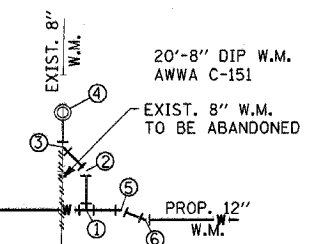
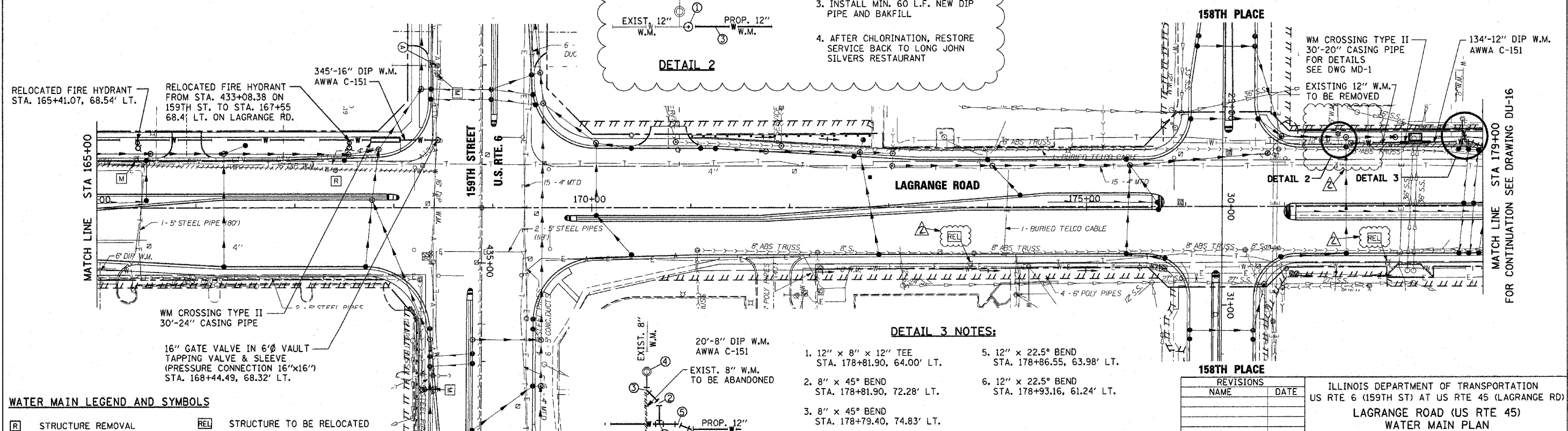
DETAIL 1 NOTES:

- 16" BUTTERFLY VALVE (NON-PRESSURE CONNECTION) WITH 5' Ø VAULT STA. 158+55, 69.05' LT.
- 16" x 45° BEND STA. 158+46.96, 69.05' LT.
- 16" x 45° BEND STA. 158+27.06, 49.35' LT.
- 16" TEMPORARY CAP TO BE INSTALLED AFTER CUTTING THE EXISTING 16" W.M. TEMPORARY CAP TO BE REMOVED AFTER CHLORINATION & TIE INTO EXIST. 16" W.M. WITH:
- 16"-TRANSITION SLEEVE STA. 158+19.66, 49.28' LT.



DETAIL 2 NOTES:

- TURN-OFF SERVICE TO LONG JOHN SILVERS RESTAURANT
- CUT THE EXISTING 12" W.M. LINE AND INSTALL NEW 12" GATE VALVE (NON-PRESSURE CONNECTION) WITH 5' Ø VAULT STA. 177+66.86, 63.8' LT.
- INSTALL MIN. 60 L.F. NEW DIP PIPE AND BAKFILL
- AFTER CHLORINATION, RESTORE SERVICE BACK TO LONG JOHN SILVERS RESTAURANT



DETAIL 3 NOTES:

- 12" x 8" x 12" TEE STA. 178+81.90, 64.00' LT.
- 8" x 45° BEND STA. 178+81.90, 72.28' LT.
- 8" x 45° BEND STA. 178+79.40, 74.83' LT.
- EXISTING 8" GATE VALVE. KEEP IN CLOSED POSITION UNTIL CHLORINATION IS DONE, THEN TIE INTO THE EXISTING 8" GATE VALVE.
- 12" x 22.5° BEND STA. 178+86.55, 63.98' LT.
- 12" x 22.5° BEND STA. 178+93.16, 61.24' LT.

WATER MAIN LEGEND AND SYMBOLS

- R STRUCTURE REMOVAL
- REL STRUCTURE TO BE RELOCATED
- A VALVE VAULT TO BE ADJUSTED
- M STRUCTURE TO BE MOVED
- ADJ STRUCTURE TO BE ADJUSTED

REVISIONS	
NAME	DATE

ILLINOIS DEPARTMENT OF TRANSPORTATION
 US RTE 6 (159TH ST) AT US RTE 45 (LAGRANGE RD)
LAGRANGE ROAD (US RTE 45)
WATER MAIN PLAN
 STA 151+00 TO STA 179+00
 SCALE: 1"=50'
 DATE: 7-07-06
 DRAWN BY: OIU
 CHECKED BY: RCH

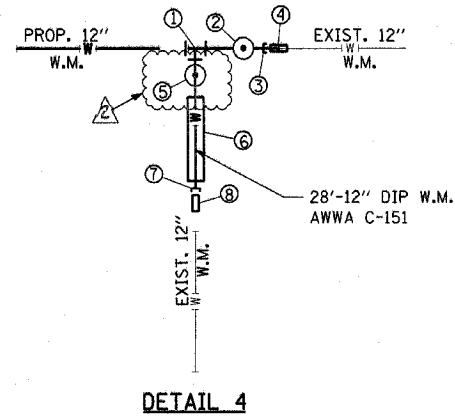
McDonough Associates Inc.
 Engineers / Architects

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F.A.E. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
351	537 R-1	COOK	245	91
STA. _____ TO STA. _____		FED. ROAD DIST. NO. ILLINOIS FED. AID PROJECT		
CONTRACT # 62880				

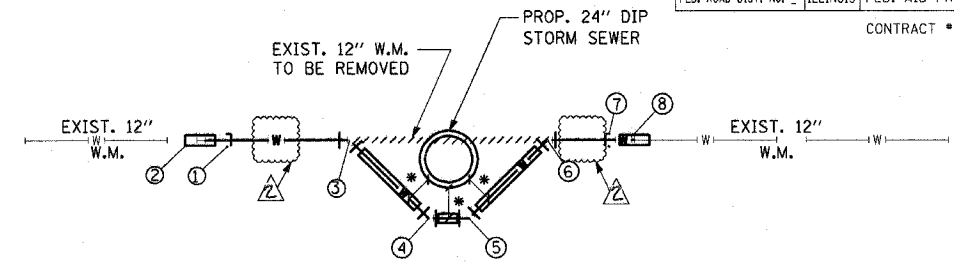
DETAIL 4 NOTES:

1. 12" x 12" x 12" TEE
STA. 179+26.95, 61.52' LT.
2. 12" GATE VALVE (NON-PRESSURE CONNECTION) WITH 5' Ø VAULT
STA. 179+37.32, 61.67' LT.
3. 12" TEMPORARY CAP TO BE INSTALLED AFTER CUTTING THE EXISTING 12" W.M. TEMPORARY CAP TO BE REMOVED AFTER CHLORINATION & TIE INTO EXIST. 12" W.M. WITH:
4. 12"-TRANSITION SLEEVE
STA. 179+43.81, 61.61' LT.
5. 12" GATE VALVE (NON-PRESSURE CONNECTION) WITH 5' Ø VAULT
STA. 179+26.95, 56.55' LT.
6. 4- 12" x 45° VERTICAL BENDS 20'-20" CASING PIPE, WM CROSSING TYPE I, SEE SHEET MD-1 FOR DETAILS.
7. 12" TEMPORARY CAP TO BE INSTALLED AFTER CUTTING THE EXISTING 12" W.M. TEMPORARY CAP TO BE REMOVED AFTER CHLORINATION & TIE INTO EXIST. 12" W.M. WITH:
8. 12"-TRANSITION SLEEVE
STA. 179+27.03, 34.11' LT.



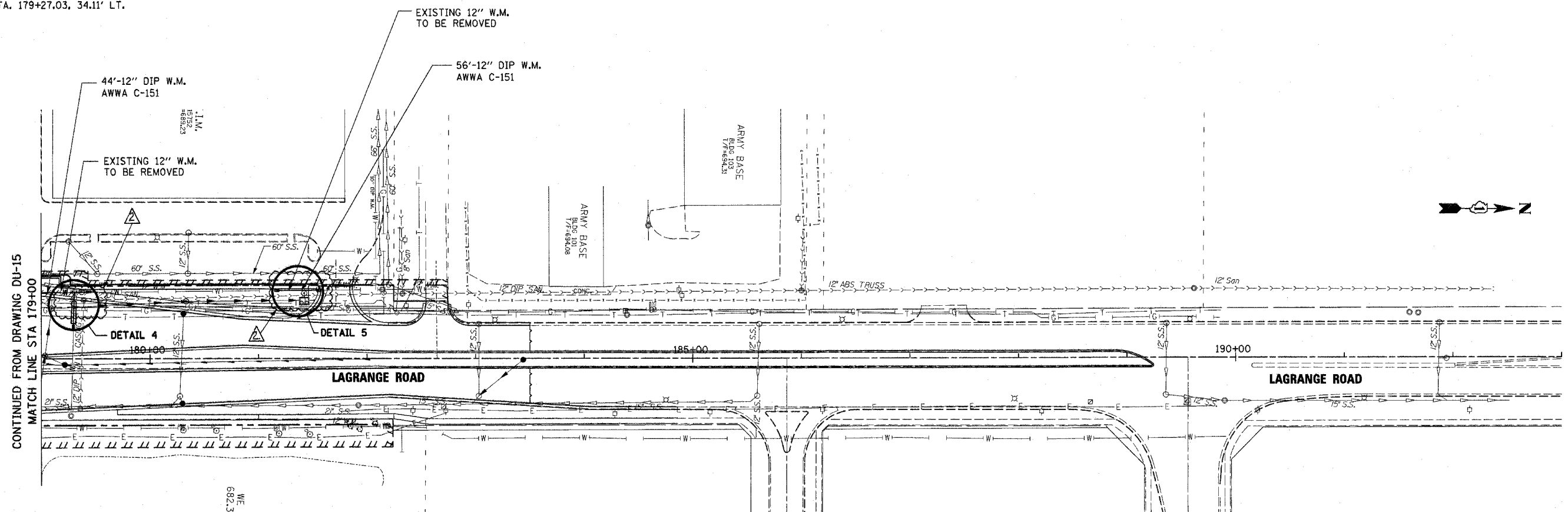
DETAIL 5 NOTES:

1. 12" TEMPORARY CAP TO BE INSTALLED AFTER CUTTING THE EXISTING 12" W.M. TEMPORARY CAP TO BE REMOVED AFTER CHLORINATION & TIE INTO EXIST. 12" W.M. WITH:
2. 12"-TRANSITION SLEEVE
STA. 181+17.04, 63.26' LT.
3. 12" x 45° VERTICAL BEND 12'-20" CASING PIPE
4. 12" x 45° VERTICAL BEND 6'-20" CASING PIPE
5. 12" x 45° VERTICAL BEND 12'-20" CASING PIPE
6. 12" x 45° VERTICAL BEND
7. 12" TEMPORARY CAP TO BE INSTALLED AFTER CUTTING THE EXISTING 12" W.M. TEMPORARY CAP TO BE REMOVED AFTER CHLORINATION & TIE INTO EXIST. 12" W.M. WITH:
8. 12"-TRANSITION SLEEVE
STA. 181+55.46, 63.60' LT.



DETAIL 5

• 18" VERTICAL SEPARATION



WATER MAIN LEGEND AND SYMBOLS

- R STRUCTURE REMOVAL
- A VALVE VAULT TO BE ADJUSTED
- M STRUCTURE TO BE MOVED
- AD STRUCTURE TO BE ADJUSTED

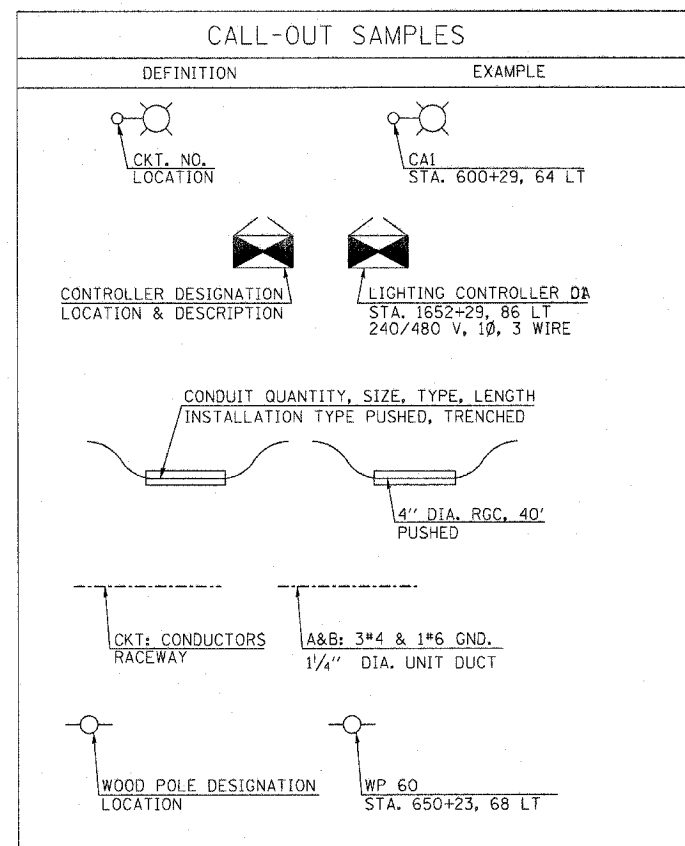
REVISIONS	
NAME	DATE

ILLINOIS DEPARTMENT OF TRANSPORTATION
 US RTE 6 (159TH ST) AT US RTE 45 (LAGRANGE RD)
 LAGRANGE ROAD (US RTE 45)
 WATER MAIN PLAN
 STA 179+00 TO STA 182+19.46
 SCALE: 1"=50'
 DATE: 7-07-06
 DRAWN BY: JTF
 CHECKED BY: OIU
McDonough Associates Inc.
 Engineers / Architects

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Rev. 11-1-06

ROADWAY ELECTRICAL SYMBOL	
SYMBOL	DESCRIPTION
	PROPOSED LIGHTING UNIT: 47'-6" M.H., 15' MAST ARM WITH 400W HPS LUMINAIRE M-C-III
	EXISTING RELOCATED AND MODIFIED LIGHTING UNIT WITH NEW 15'-0" MAST ARM AND 20A, 120V, GFI DUPLEX RECEPTACLE WITH WP COVER
	EXISTING LIGHTING UNIT TO REMAIN
	EXISTING COMBINATION LIGHTING TRAFFIC POLE
	EXISTING LIGHTING UNIT TO BE REMOVED AND SALVAGED
	EXISTING LIGHTING UNIT TO BE REMOVED AND REINSTALLED AT A NEW LOCATION
	EXISTING RELOCATED LIGHTING UNIT
	TEMPORARY LIGHTING UNIT: 100 FT., CLASS 4 WOOD POLE, 15 FT. MAST ARM AND 750W SODIUM VAPOR, HIGH MAST LUMINAIRE UNLESS NOTED OTHERWISE
	EXPOSED CONDUIT
	RACEWAY OR DIRECT BURIAL CABLE UNDERGROUND WITHOUT ENCASEMENT
	EXISTING UNDERGROUND WIRING TO REMAIN
	EXISTING UNIT DUCT TO BE ABANDONED
	AERIAL ELECTRIC CABLE
	EXISTING AERIAL ELECTRIC CABLE
	RIGID GALVANIZED STEEL CONDUIT SLEEVE, TRENCHED OR PUSHED
	EXISTING LIGHTING CONTROLLER, DUPLEX
	EXISTING UTILITY SERVICE CONNECTION, POLE MOUNTED
	EXISTING UTILITY SERVICE CONNECTION, PAD MOUNTED
	PROPOSED LIGHTING CONTROLLER, DUPLEX
	PROPOSED UTILITY SERVICE CONNECTION, POLE MOUNTED
	PROPOSED UTILITY SERVICE CONNECTION, PAD MOUNTED
	PAD MOUNTED VILLAGE OF ORLAND PARK TRANSFORMER
	TEMPORARY WOOD POLE
	ELECTRIC UTILITY POLE
	ELECTRIC GROUND ROD
	20A, 120V, WP RECEPTACLE WITH GFCI DEVICE



ABBREVIATIONS	
SYMBOL	DESCRIPTION
AC	ALTERNATING CURRENT
A/C	AERIAL CABLE
AFG	ABOVE FINISHED GRADE
CB	CIRCUIT BREAKER
CKT	CIRCUIT
CT	CURRENT TRANSFORMER
CP	CONTROL PANEL
DIA	DIAMETER
E	EXISTING UNIT TO REMAIN
FT	FEET OR FOOT
FU	FUSE
GND	GROUND
JB	JUNCTION BOX
KVA	KILOVOLT-AMPERE
KW	KILOWATTS
MA	MAST ARM
MH	MOUNTING HEIGHT
NO. #	NUMBER
P	PROPOSED
PNL	PANEL
R	EXISTING UNIT TO BE REMOVED (OWNER SALVAGED U.N.O.)
RECP	RECEPTACLE
RGC	RIGID GALVANIZED CONDUIT
SEL SW	SELECTOR SWITCH
SPARE	SPARE
SPACE	SPACE
STA	STATION
T	TEMPORARY LIGHTING UNIT
UD	UNIT DUCT
U.N.O.	UNLESS NOTED OTHERWISE
WP	WOOD POLE
XFMR	TRANSFORMER

GENERAL ELECTRICAL NOTES:

- ALL WORK AND MATERIALS SHALL COMPLY WITH THE LATEST CODES, STANDARDS, NEC, IES, THE ILLINOIS DEPARTMENT OF TRANSPORTATION STANDARD SPECIFICATIONS FOR ROAD AND BRIDGE CONSTRUCTION, ADOPTED JANUARY 1, 2002, SUPPLEMENTAL SPECIFICATIONS AND RECURRING SPECIAL PROVISIONS, AND THE VILLAGE OF ORLAND PARK ORDINANCES, UNLESS SPECIFICALLY NOTED OTHERWISE IN THE CONTRACT DOCUMENTS.
- CONSULT AND COORDINATE WITH ALL TRADES AND AUTHORITIES INVOLVED TO AVOID INTERFERENCE WITH EXISTING AND NEW UNDERGROUND UTILITIES.
- THE CONTRACTOR SHALL EXERCISE UTMOST CARE IN EXCAVATING AND BACKFILLING THE TRENCHES TO AVOID CUTTING OR DAMAGING EXISTING UNDERGROUND UTILITIES AS SHOWN ON THE DRAWINGS.
- ALL CONDUIT, EQUIPMENT AND APPURTENANCES ARE ILLUSTRATED DIAGRAMMATICALLY. THE ACTUAL LOCATION IN THE FIELD SHALL MEET THE APPROVAL OF THE ENGINEER.
- WHERE THE CONTRACTOR'S EXCAVATION MEETS AN OBSTRUCTION, THE CONTRACTOR SHALL NOTIFY THE ENGINEER FOR DIRECTIONS IN WRITING PRIOR TO FURTHER EXCAVATION. THE CONTRACTOR SHALL RESTORE ANY DAMAGE TO EXISTING SYSTEMS OR UTILITIES TO THE SATISFACTION OF THE ENGINEER. THIS WORK WILL BE CONSIDERED INCIDENTAL TO THIS CONTRACT.
- ALL LUMINAIRES SHALL BE ORIENTED WITH THE OPTICS PERPENDICULAR TO THE ROADWAY UNLESS OTHERWISE INDICATED OR DIRECTED BY THE ENGINEER. THE LUMINAIRES MAY REQUIRE NIGHT-TIME OPTICAL ADJUSTMENT UPON INSPECTION BY THE ENGINEER. THE COST OF THIS WORK SHALL BE INCLUDED IN THE APPROPRIATE LUMINAIRE PAY ITEM. NO SEPARATE PAYMENT WILL BE MADE.
- THE CONTRACTOR SHALL BE RESPONSIBLE TO ASCERTAIN EXISTING FIELD CONDITIONS BEFORE BIDDING ON THIS PROJECT.
- CONDUIT AND UNIT DUCT SHALL BE INSTALLED AT A MINIMUM DEPTH OF 30 INCHES BELOW GRADE AND POSITIONED IN THE FIELD TO AVOID CONFLICT WITH ROADWAY UNDERDRAINS AND OTHER EXISTING AND PROPOSED UTILITIES. THE CONTRACTOR SHALL INCREASE DEPTH OF UNIT DUCTS AND CONDUIT AS REQUIRED AT NO ADDITIONAL COST TO THE VILLAGE. COORDINATE RACEWAY DEPTHS WITH THE DETAILS AND THE ENGINEER.
- THE CONTRACTOR SHALL PREPARE A PRELIMINARY SCHEDULE WHEN THE CONTRACT COMMENCES WHICH ESTABLISHES THE DATE WHEN THE ELECTRICAL SERVICES WILL BE REQUIRED. THIS SCHEDULE SHALL BE FORWARDED IN WRITING TO C.E.CO. SUBSEQUENT UPDATING OF THE SERVICE REQUIREMENTS, FIVE (5) DAYS BEFORE THE ELECTRICAL SERVICES ARE REQUIRED, THE CONTRACTOR SHALL NOTIFY C.E.CO. BY PHONE AND CONFIRM THE REQUEST IN WRITING. ALL C.E.CO. ELECTRIC SERVICE CONTRACTS AND AGREEMENTS SHALL BE FORWARDED TO THE VILLAGE OF ORLAND PARK FOR REVIEW AND SIGNATURE.
- ALL PITS USED FOR INSTALLING PUSHED (JACKED) STEEL CONDUITS UNDER EXISTING ROADWAYS SHALL BE LOCATED 5'-0" (MINIMUM) CLEAR FROM THE EDGE OF SHOULDER. LOCATIONS OF THE CONDUIT CROSSINGS SHOWN ARE APPROXIMATE AND MAY BE SHIFTED AS NECESSARY TO AVOID THE MOTORISTS. THE CONTRACTOR SHALL SUBMIT PLANS FOR THE LOCATION AND SIZE OF EACH PIT AND MAINTENANCE AND PROTECTION OF TRAFFIC AT THE SITE OF EACH PIT FOR THE APPROVAL OF THE ENGINEER BEFORE THE EXCAVATION OF ANY PIT MAY BEGIN.
- ALL EXISTING AREAS THAT ARE DAMAGED AS PART OF THIS WORK, INCLUDING BUT NOT LIMITED TO FENCING, CURB AND CUTTER, SIDEWALKS, AND WHERE RESTORATION IS NOT COVERED BY APPLICABLE SECTIONS OF THE STANDARD SPECIFICATIONS AND SPECIAL PROVISIONS, SHALL BE RESTORED TO THE SATISFACTION OF THE ENGINEER. THIS WORK SHALL BE CONSIDERED INCIDENTAL TO THE COST OF THIS CONTRACT. NO SEPARATE PAYMENT WILL BE MADE.
- ALL CONDUCTORS SHALL RUN CONTINUOUS WITHOUT ANY UNDERGROUND SPLICES. SPLICING OF CONDUCTORS WILL BE PERMITTED ONLY IN THE BASE OF THE LIGHTING UNITS UNLESS NOTED OTHERWISE.
- GROUNDING CONNECTIONS AT ALL EQUIPMENT FOUNDATIONS SHALL BE EXOTHERMICALLY WELDED, UNLESS NOTED OTHERWISE AND SHALL BE INSPECTED AND APPROVED BY THE ENGINEER PRIOR TO POURING CONCRETE OR BACKFILLING, AS APPLICABLE.
- THE QUANTITIES OF CONDUITS WHERE INDICATED ON THESE PLAN DRAWINGS ARE APPROXIMATIONS ONLY. THE CONTRACTOR SHALL FIELD VERIFY ALL LENGTHS AND SHALL INSTALL RACEWAYS IN COMPLIANCE WITH THE SPECIFIED REQUIREMENTS. CONDUITS SHALL EXTEND 5'-0" BEYOND BACK OF CURB.
- ALL EXISTING LIGHTING UNITS SHALL REMAIN OPERATIONAL FOR NORMAL NIGHT TIME HOURS UNTIL THE TEMPORARY SYSTEM HAS BEEN INSTALLED, TESTED AND ENERGIZED FROM THE NEW TEMPORARY LIGHTING CONTROLLER.
- CONTRACTOR SHALL COORDINATE ALL ELECTRICAL WORK WITH THE CONSTRUCTION STAGING PLANS.
- TO MAINTAIN THE STRUCTURAL INTEGRITY OF THE LIGHT POLES, THEY SHALL NOT BE ERECTED AND/OR LEFT TO STAND WITHOUT LUMINAIRES. THE CONTRACTOR WILL NOT BE PAID FOR POLES UNTIL LUMINAIRES ARE INSTALLED, ENERGIZED, TESTED AND ACCEPTED BY THE ENGINEER.
- ALL PERMANENT LIGHTING UNITS WHETHER THEY ARE NEW OR EXISTING UNITS INSTALLED ON NEW FOUNDATIONS, SHALL BE PROVIDED WITH ALUMINUM BREAKAWAY TRANSFORMER BASE WITH BOLTED METAL COVER PLATE IN ACCORDANCE WITH SPECIAL PROVISIONS.
- WHERE MULTIPLE CONDUITS ADJACENT TO EACH OTHER ARE INSTALLED IN A COMMON TRENCH, TRENCH AND BACKFILL WILL NOT BE PAID FOR EACH CONDUIT, BUT WILL BE PAID FOR THE LENGTH OF THE COMMON TRENCH ONLY.
- EXISTING LIGHTING UNITS ALONG 159TH STREET WITHIN THE LIMITS OF THIS CONSTRUCTION ARE 47.5 FOOT MOUNTING HEIGHT WITH 12-FOOT MAST ARM AND 400W HPS LUMINAIRE. THESE POLES SHALL BE REMOVED AND MODIFIED AS SPECIFIED IN ACCORDANCE WITH THE SPECIAL PROVISIONS AND SHALL BE REINSTALLED ON NEW FOUNDATIONS AS INDICATED ON THE DRAWINGS.
- EXISTING LIGHTING UNITS ALONG LAGRANGE ROAD WITHIN THE LIMITS OF THIS CONSTRUCTION ARE 40 FOOT MOUNTING HEIGHT WITH 12-FOOT MAST ARM. THESE LIGHTING UNITS SHALL BE REMOVED AND SHALL BE TURNED OVER TO THE VILLAGE OF ORLAND PARK PUBLIC WORKS IN ACCORDANCE WITH SPECIAL PROVISIONS.
- REPLACE LIGHT POLE/UNIT IDENTIFICATION ON ALL EXISTING, MODIFIED AND REINSTALLED LIGHT POLES, AS INDICATED ON THE PLANS, TO CORRESPOND TO ACTUAL CIRCUITING. THE COST OF THIS WORK SHALL BE INCLUDED IN THE COST OF "MODIFY EXISTING LIGHT POLE, ALUMINUM 47.5 FT, M.H., WITH NEW 15 FT MAST ARM AND 20A, 120V, GFI RECEPTACLE" PAY ITEM.
- UNLESS NOTED OTHERWISE ON PLANS, TEMPORARY LIGHTING UNITS SHALL NOT BE OPERATED SIMULTANEOUSLY WITH THE EXISTING AND PROPOSED LIGHTING SYSTEM.
- REMOVAL OF TEMPORARY LIGHTING CONTROLLER AND ASSOCIATED WOOD POLE, AERIAL CABLES AND APPURTENANCES SHALL BE INCLUDED IN THE COST OF "REMOVAL OF TEMPORARY LIGHTING UNITS" PAY ITEM. NO SEPARATE PAYMENT WILL BE MADE.



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REVISIONS	
NAME	DATE

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ILLINOIS DEPARTMENT OF TRANSPORTATION
 US RTE 6 (159TH ST) AT US RTE 45 (LAGRANGE RD)
**ELECTRICAL SYMBOL LIST,
 ABBREVIATIONS AND
 GENERAL NOTES**

SCALE: NONE
 DATE: 7-07-06

DRAWN BY: MB
 CHECKED BY: KMY

McDonough Associates Inc.
 Engineers / Architects

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
351	537 R-1	COOK	245	160
STA. 151+00		TO STA. 165+00		
FED. ROAD DIST. NO.	ILLINOIS	FED. AID PROJECT		
CONTRACT # 62880				

LIGHTING PHASING NOTES:

PRE-STAGE 1 (PRIOR TO THE START OF STAGE 1 CONSTRUCTION)

- A. FURNISH AND INSTALL TEMPORARY LIGHTING CONTROLLER "CT".
- B. FURNISH, INSTALL AND ENERGIZE ALL TEMPORARY LIGHTING UNITS PRIOR TO THE REMOVAL OF EXISTING LIGHTING UNITS.
- C. EXISTING LIGHTING UNITS C2-C4, C2-D4, C5-R1, C5-S1, AND C5-R2 SHALL BE REMOVED AND SALVAGED.
- D. REMOVE ALL EXISTING LIGHTING UNITS LOCATED ON THE SOUTH SIDE OF 159TH ST. AND THE EAST SIDE OF LAGRANGE RD. AS INDICATED ON DRAWINGS RL-1 THRU RL-5. ALL 47.5 FT MOUNTING HEIGHT LIGHTING UNITS SHALL BE MODIFIED AND SHALL BE REUSED FOR THE PERMANENT LIGHTING. ALL 40 FT. POLES SHALL BE SALVAGED IN ACCORDANCE WITH THE SPECIAL PROVISIONS.
- E. REMOVE EXISTING LIGHTING CONTROLLER "C6" AND THE ASSOCIATED SERVICE. COORDINATE THE WORK WITH COMED.

STAGE 1

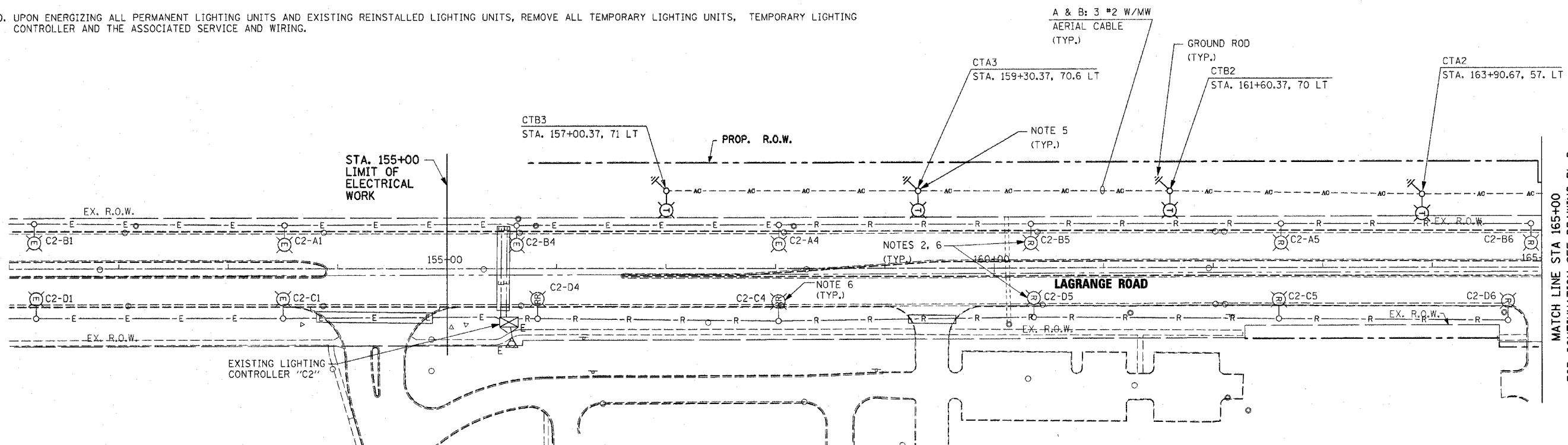
- A. REMOVE ALL EXISTING LIGHTING UNITS LOCATED ON THE NORTH SIDE OF 159TH ST. AND ON THE WEST SIDE OF LAGRANGE RD. ALL 47.5 FT. MOUNTING HEIGHT LIGHTING UNITS SHALL BE MODIFIED AND SHALL BE REUSED FOR THE PERMANENT LIGHTING. ALL 40 FT. POLES SHALL BE SALVAGED IN ACCORDANCE WITH THE SPECIAL PROVISIONS.
- B. FURNISH AND INSTALL PROPOSED LIGHTING UNITS ON NORTH SIDE OF 159TH ST. AND ON WEST SIDE OF LAGRANGE RD..

STAGE 2

- A. NO NEW ELECTRICAL/LIGHTING WORK NEEDS TO BE DONE.

STAGE 3

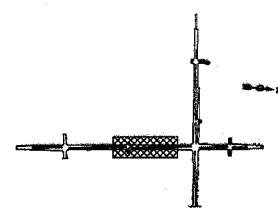
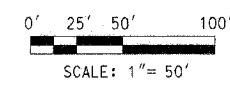
- A. FURNISH AND INSTALL ALL PROPOSED LIGHTING UNITS ON THE SOUTH SIDE OF 159TH ST. AND ON THE EAST SIDE OF LAGRANGE RD. AS INDICATED ON DRAWINGS RL-6 THRU RL-10.
- B. RE-INSTALL EXISTING LIGHTING UNITS C2-C4, C2-D4, C5-R1, C5-S1, AND C5-R2 REMOVED IN PRE-STAGE 1.
- C. FURNISH AND INSTALL PROPOSED LIGHTING CONTROLLER "C6". COORDINATE INSTALLATION OF SERVICE WITH COMED.
- D. UPON ENERGIZING ALL PERMANENT LIGHTING UNITS AND EXISTING REINSTALLED LIGHTING UNITS, REMOVE ALL TEMPORARY LIGHTING UNITS, TEMPORARY LIGHTING CONTROLLER AND THE ASSOCIATED SERVICE AND WIRING.



2

NOTES:

- 1. TEMPORARY LIGHTING UNITS AND TEMPORARY LIGHTING CONTROLLER WITH ASSOCIATED SERVICE SHALL BE FURNISHED, INSTALLED AND ENERGIZED PRIOR TO THE COMMENCEMENT OF STAGE 1 WORK.
- 2. EXISTING LIGHTING UNIT CONSIST OF 40' POLE WITH 12' MAST ARM AND 400W HPS LUMINAIRE. THE CONTRACTOR SHALL REMOVE EXISTING LIGHTING UPON ENERGIZING TEMPORARY LIGHTING UNITS. EXISTING LUMINAIRE SHALL BE REUSED FOR PERMANENT LIGHTING. EXISTING LIGHT POLE AND MAST ARM SHALL BE SALVAGED AND SHALL BE DELIVERED TO THE ORLAND PARK PUBLIC WORKS DEPARTMENT IN ACCORDANCE WITH THE SPECIAL PROVISIONS.
- 3. TEMPORARY LIGHTING WILL REMAIN IN SERVICE UNTIL PROPOSED (PERMANENT) LIGHTING IS INSTALLED, ENERGIZED, TESTED AND APPROVED BY THE ENGINEER.
- 4. FOR TEMPORARY LIGHTING DETAILS, SEE DRAWING ED-7.
- 5. TEMPORARY WOOD POLE, 100 FT., CLASS 4, 15 FT. MAST ARM WITH LUMINAIRE, SODIUM VAPOR, HIGH MAST, HORIZONTAL MOUNT, 750 WATT, 80 FT. MOUNTING HEIGHT AND 20° TILTED FROM VERTICAL TOWARDS ROADWAY. FOR TEMPORARY LIGHTING DETAILS, SEE DRAWING ED-7.
- 6. EXISTING LIGHT POLE FOUNDATION SHALL BE REMOVED IN ACCORDANCE WITH IDOT STANDARD SPECIFICATIONS.



KEY PLAN

REVISIONS	
NAME	DATE

ILLINOIS DEPARTMENT OF TRANSPORTATION
 US RTE 6 (159TH ST) AT US RTE 45 (LAGRANGE RD)
LAGRANGE ROAD (US45)
TEMPORARY LIGHTING AND REMOVAL PLAN
STA 158+63.28 TO STA 165+00
 SCALE: 1" = 50'
 DATE: 7-07-06
 DRAWN BY: MB
 CHECKED BY: KMY

McDonough Associates Inc.
 Engineers / Architects

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F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
351	537 R-1	COOK	245	161

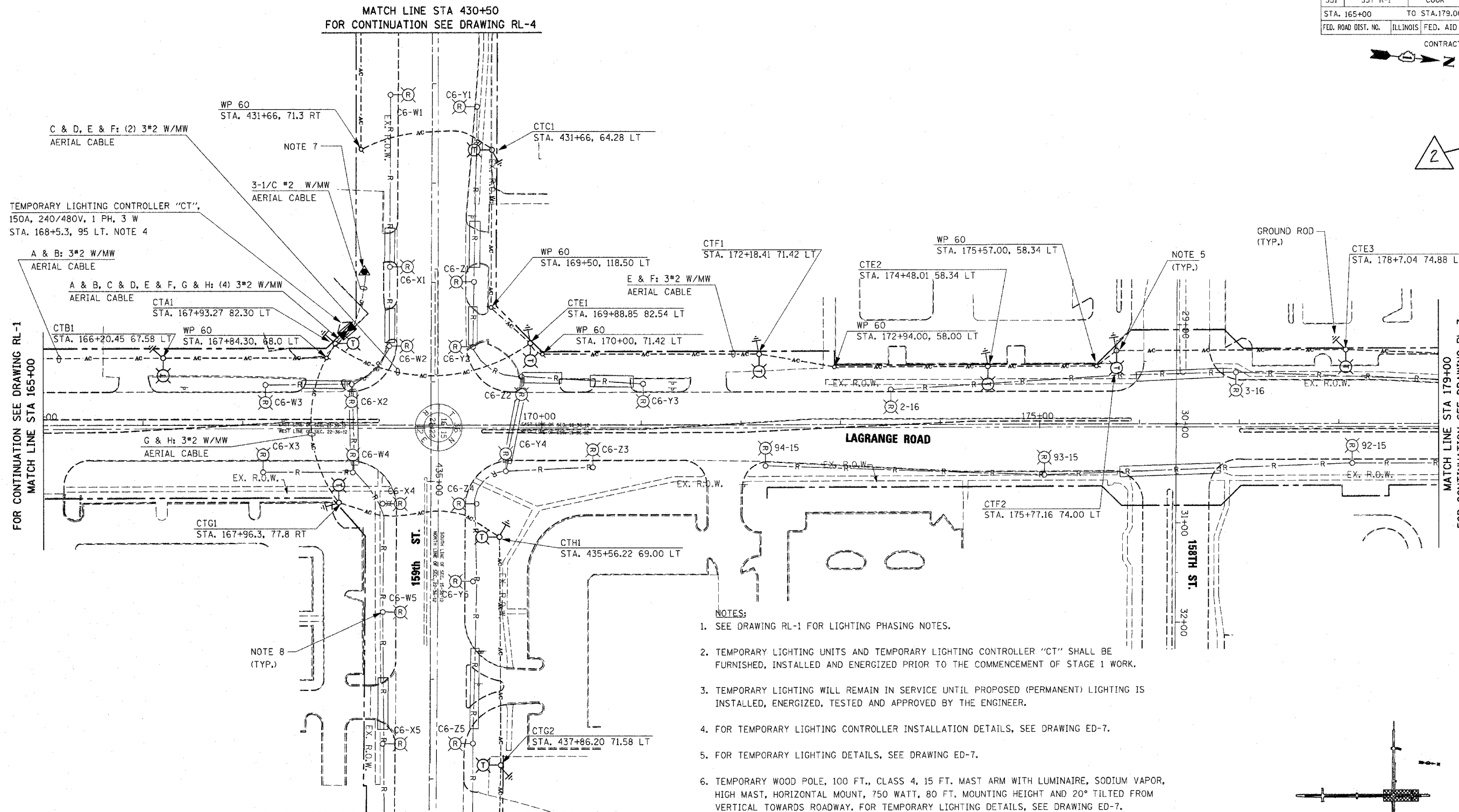
STA. 165+00 TO STA. 179+00

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

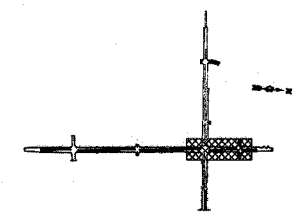
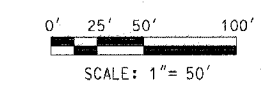
CONTRACT # 62880



2



- NOTES:
- SEE DRAWING RL-1 FOR LIGHTING PHASING NOTES.
 - TEMPORARY LIGHTING UNITS AND TEMPORARY LIGHTING CONTROLLER "CT" SHALL BE FURNISHED, INSTALLED AND ENERGIZED PRIOR TO THE COMMENCEMENT OF STAGE 1 WORK.
 - TEMPORARY LIGHTING WILL REMAIN IN SERVICE UNTIL PROPOSED (PERMANENT) LIGHTING IS INSTALLED, ENERGIZED, TESTED AND APPROVED BY THE ENGINEER.
 - FOR TEMPORARY LIGHTING CONTROLLER INSTALLATION DETAILS, SEE DRAWING ED-7.
 - FOR TEMPORARY LIGHTING DETAILS, SEE DRAWING ED-7.
 - TEMPORARY WOOD POLE, 100 FT., CLASS 4, 15 FT. MAST ARM WITH LUMINAIRE, SODIUM VAPOR, HIGH MAST, HORIZONTAL MOUNT, 750 WATT, 80 FT. MOUNTING HEIGHT AND 20° TILTED FROM VERTICAL TOWARDS ROADWAY. FOR TEMPORARY LIGHTING DETAILS, SEE DRAWING ED-7.
 - ELECTRIC UTILITY SERVICE DROP, 240/480V, 1-PHASE, 3-WIRE SERVICE. EXACT LOCATION OF SERVICE POLE AND THE UTILITY SERVICE DROP TO BE DETERMINED IN THE FIELD.
 - EXISTING LIGHT POLE FOUNDATIONS SHALL BE REMOVED IN ACCORDANCE WITH IDOT STANDARD SPECIFICATIONS.



KEY PLAN
RL-2

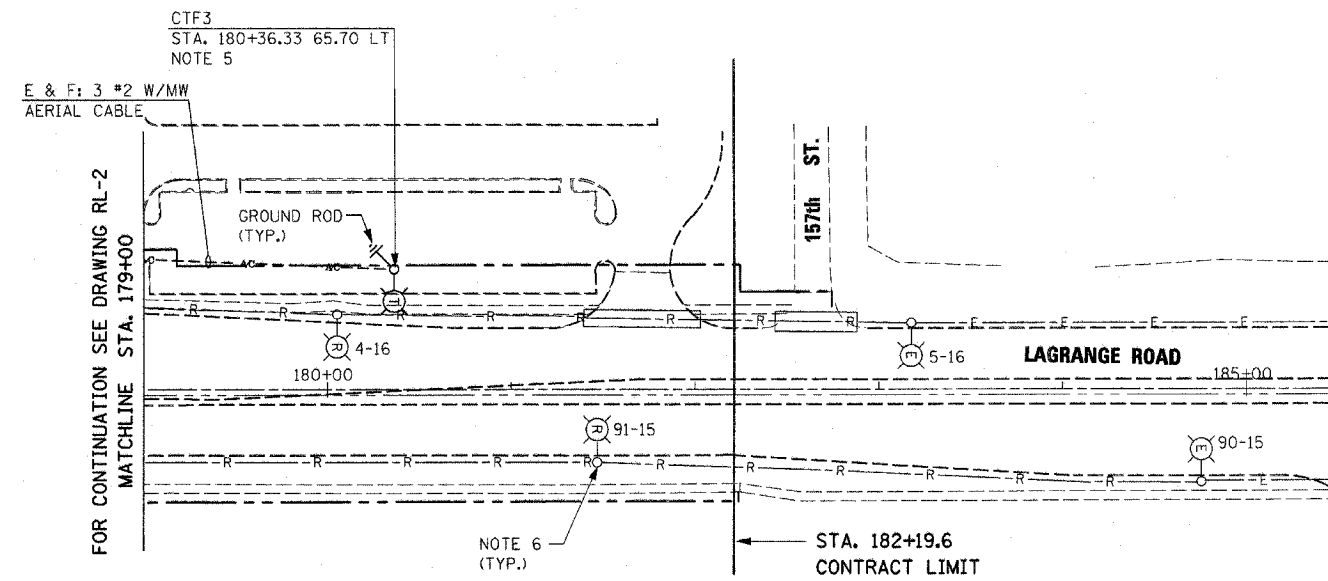
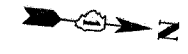
Rev. 11-1-06

REVISIONS	NAME	DATE

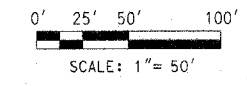
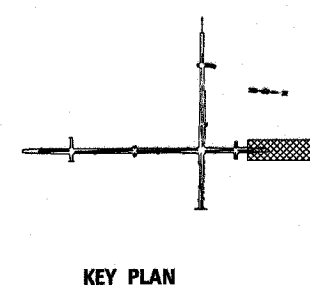
ILLINOIS DEPARTMENT OF TRANSPORTATION
US RTE 6 (159TH ST) AT US RTE 45 (LAGRANGE RD)
LAGRANGE ROAD (US45)
TEMPORARY LIGHTING AND REMOVAL PLAN
STA 165+00 TO STA 179+00
SCALE: 1" = 50'
DATE: 7-07-06
DRAWN BY: MB
CHECKED BY: KMY



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- NOTES:**
- SEE DRAWING RL-1 FOR LIGHTING PHASING NOTES.
 - TEMPORARY LIGHTING UNITS SHALL BE FURNISHED, INSTALLED AND ENERGIZED PRIOR TO THE COMMENCEMENT OF STAGE 1 WORK.
 - TEMPORARY LIGHTING WILL REMAIN IN SERVICE UNTIL PROPOSED (PERMANENT) LIGHTING IS INSTALLED, ENERGIZED, TESTED AND APPROVED BY THE ENGINEER.
 - FOR TEMPORARY LIGHTING DETAILS, SEE DRAWING ED-7.
 - TEMPORARY WOOD POLE, 100 FT., CLASS 4, 15 FT. MAST ARM WITH LUMINAIRE, SODIUM VAPOR, HIGH MAST, HORIZONTAL MOUNT, 750 WATT, 80 FT. MOUNTING HEIGHT AND 20° TILTED FROM VERTICAL TOWARD ROADWAY. FOR TEMPORARY LIGHTING DETAILS, SEE DRAWING ED-7.
 - EXISTING LIGHT POLE FOUNDATION SHALL BE REMOVED IN ACCORDANCE WITH IDOT STANDARD SPECIFICATIONS.



REVISIONS	
NAME	DATE

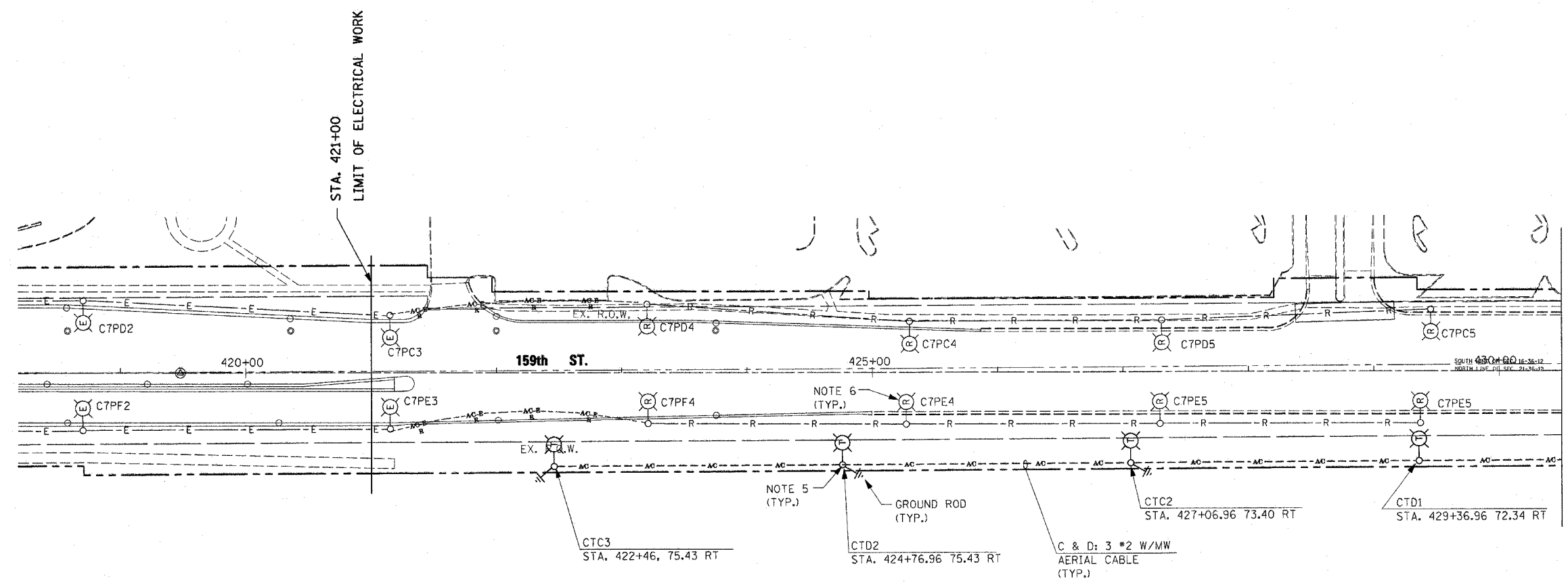
ILLINOIS DEPARTMENT OF TRANSPORTATION
 US RTE 6 (159TH ST) AT US RTE 45 (LAGRANGE RD)
 LAGRANGE ROAD (US45)
 TEMPORARY LIGHTING AND REMOVAL PLAN
 STA 179+00 TO STA 182+19.6

SCALE: 1" = 50' DRAWN BY: MB
 DATE: 7-07-06 CHECKED BY: KMY

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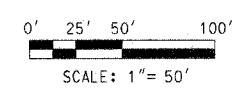
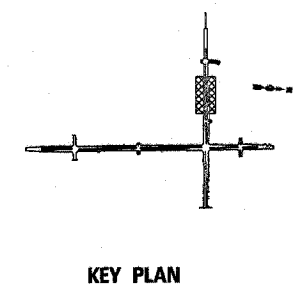
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F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
351	537 R-1	COOK	245	163
STA. 413+00		TO STA. 427+00		
FED. ROAD DIST. NO.	ILLINOIS	FED. AID PROJECT		
CONTRACT # 62880				



MATCH LINE STA 430+50
FOR CONTINUATION SEE DRAWING RL-2

- NOTES:**
- SEE DRAWING RL-1 FOR LIGHTING PHASING NOTES.
 - TEMPORARY LIGHTING UNITS SHALL BE FURNISHED, INSTALLED AND ENERGIZED PRIOR TO THE COMMENCEMENT OF STAGE 1 WORK.
 - TEMPORARY LIGHTING WILL REMAIN IN SERVICE UNTIL PROPOSED (PERMANENT) LIGHTING IS INSTALLED, ENERGIZED, TESTED AND APPROVED BY THE ENGINEER.
 - FOR TEMPORARY LIGHTING DETAILS, SEE DRAWING ED-7.
 - TEMPORARY WOOD POLE, 100 FT., CLASS 4, 15 FT. MAST ARM WITH LUMINAIRE, SODIUM VAPOR, HIGH MAST, HORIZONTAL MOUNT, 750 WATT, 80 FT. MOUNTING HEIGHT AND 20 TILTED FROM VERTICAL TOWARDS ROADWAY. FOR TEMPORARY LIGHTING DETAILS, SEE DRAWING ED-7.
 - EXISTING LIGHTING POLE FOUNDATION SHALL BE REMOVED IN ACCORDANCE WITH IDOT STANDARD SPECIFICATIONS.



Rev. 11-1-06

REVISIONS	
NAME	DATE

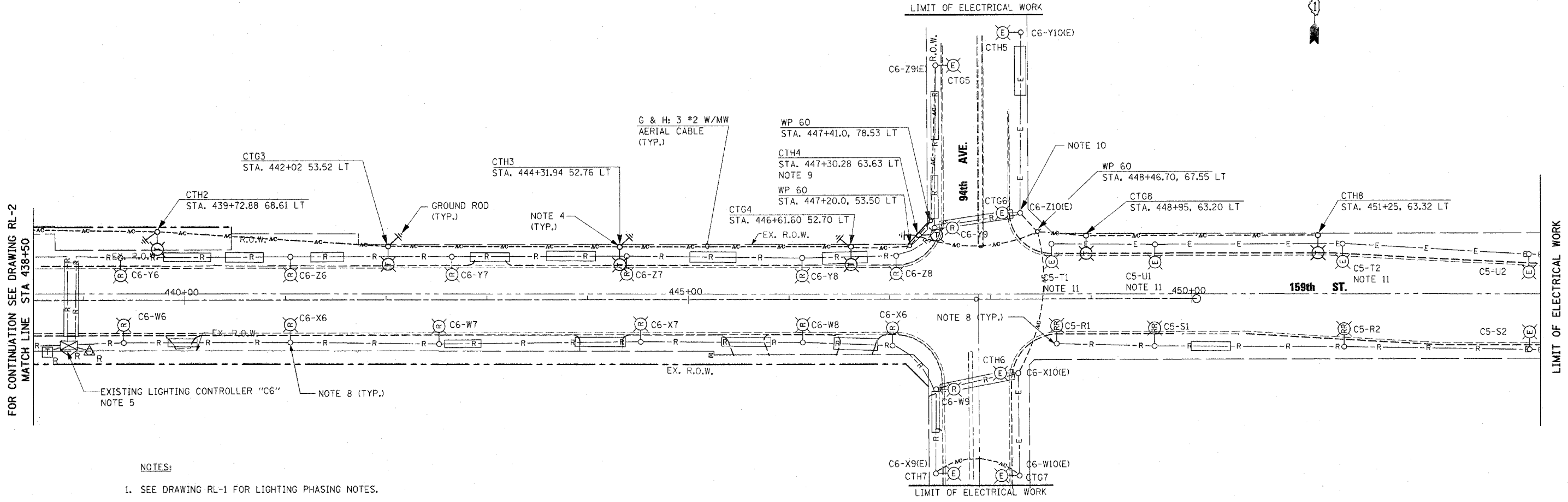
RL-4

ILLINOIS DEPARTMENT OF TRANSPORTATION
US RTE 6 (159TH ST) AT US RTE 45 (LAGRANGE RD)
159TH STREET (US RTE 6)
TEMPORARY LIGHTING AND REMOVAL PLAN
STA 421+18.76 TO STA 430+50

SCALE: 1" = 50' DRAWN BY: MB
DATE: 7-07-06 CHECKED BY: KMY

McDonough Associates Inc.
Engineers / Architects

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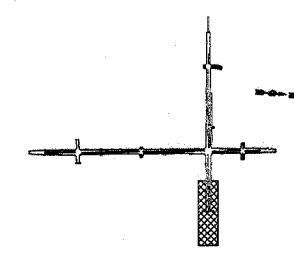


FOR CONTINUATION SEE DRAWING RL-2
MATCH LINE STA 438+50

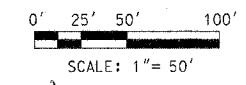
LIMIT OF ELECTRICAL WORK

NOTES:

1. SEE DRAWING RL-1 FOR LIGHTING PHASING NOTES.
2. TEMPORARY LIGHTING UNITS SHALL BE FURNISHED, INSTALLED AND ENERGIZED PRIOR TO THE COMMENCEMENT OF STAGE 1 WORK.
3. TEMPORARY LIGHTING WILL REMAIN IN SERVICE UNTIL PROPOSED (PERMANENT) LIGHTING IS INSTALLED, ENERGIZED, TESTED AND APPROVED BY THE ENGINEER.
4. FOR TEMPORARY LIGHTING DETAILS, SEE DRAWING ED-7.
5. EXISTING LIGHTING CONTROLLER "C6" AND THE 30KVA BUCK-BOOST TRANSFORMER SHALL BE DISCONNECTED, REMOVED AND SALVAGED IN ACCORDANCE WITH THE SPECIAL PROVISIONS. ALL REMOVAL WORK MUST BE COORDINATED WITH COMED AND THE VILLAGE OF ORLAND PARK PUBLIC WORKS DEPARTMENT. THE COST OF THIS WORK SHALL BE INCLUDED IN "REMOVAL OF LIGHTING CONTROLLER SALVAGE" PAY ITEM. NO SEPARATE PAYMENT WILL BE MADE.
6. TEMPORARY LIGHTING SHALL BE INSTALLED WITHIN THE R.O.W. LINE AND SHALL BE PROTECTED BY PROTECTION BARRELS AS SHOWN ON THE MAINTENANCE OF TRAFFIC DRAWINGS. THE COST OF THIS WORK SHALL BE INCLUDED IN "TRAFFIC CONTROL AND PROTECTION (SPECIAL)" PAY ITEM. NO SEPARATE PAYMENT WILL BE MADE.
7. TEMPORARY WOOD POLE, 100 FT., CLASS 4, 15 FT. MAST ARM WITH LUMINAIRE, SODIUM VAPOR, HIGH MAST, HORIZONTAL MOUNT, 750 WATT, 80 FT. MOUNTING HEIGHT AND 20° TILTED FROM VERTICAL TOWARD ROADWAY. FOR TEMPORARY LIGHTING DETAILS, SEE DRAWING ED-7.
8. EXISTING LIGHT POLE FOUNDATION SHALL BE REMOVED IN ACCORDANCE WITH IDOT STANDARD SPECIFICATIONS.
9. TEMPORARY LIGHTING UNIT: 60 FT. CLASS 4 POLE WITH 15 FT. MAST ARM AND 250 W SODIUM VAPOR LUMINAIRE. 47.5 FT MOUNTING HEIGHT.
10. THE CONTRACTOR SHALL REPLACE THE EXISTING 400 W SODIUM VAPOR LUMINAIRE WITH A 250 W SODIUM VAPOR LUMINAIRE WITH MEDIUM CUT-OFF DISTRIBUTION FOR TEMPORARY LIGHTING. UPON COMPLETION OF STAGE III WORK, THE CONTRACTOR SHALL REMOVE THE 250 W LUMINAIRE AND SHALL RE-INSTALL THE PREVIOUSLY REMOVED 400 W LUMINAIRE. 250 W LUMINAIRE SHALL BE SALVAGED AND SHALL BE TURNED OVER TO THE VILLAGE OF ORLAND PARK, PUBLIC WORKS DEPARTMENT. THE COST OF THIS WORK SHALL BE INCLUDED IN THE COST OF "LUMINAIRE, SODIUM VAPOR, HORIZONTAL MOUNT, 250 WATT" PAY ITEM. NO SEPARATE PAYMENT WILL BE MADE.
11. INDICATED EXISTING LIGHTING UNITS SHALL NOT BE OPERATED WITH THE TEMPORARY LIGHTING. DISCONNECT AND DE-ENERGIZE THE INDICATED LIGHTING UNIT UPON ENERGIZING TEMPORARY LIGHTING UNITS. AT THE COMPLETION OF STAGE III CONSTRUCTION WORK, RECONNECT AND ENERGIZE THE EXISTING LIGHTING UNIT. THE COST OF THIS WORK SHALL BE INCLUDED IN THE COST OF "LUMINAIRE, SODIUM VAPOR, HIGH MAST, HORIZONTAL MOUNT, 750 WATT" PAY ITEM. NO SEPARATE PAYMENT WILL BE MADE.



KEY PLAN



REVISIONS	
NAME	DATE

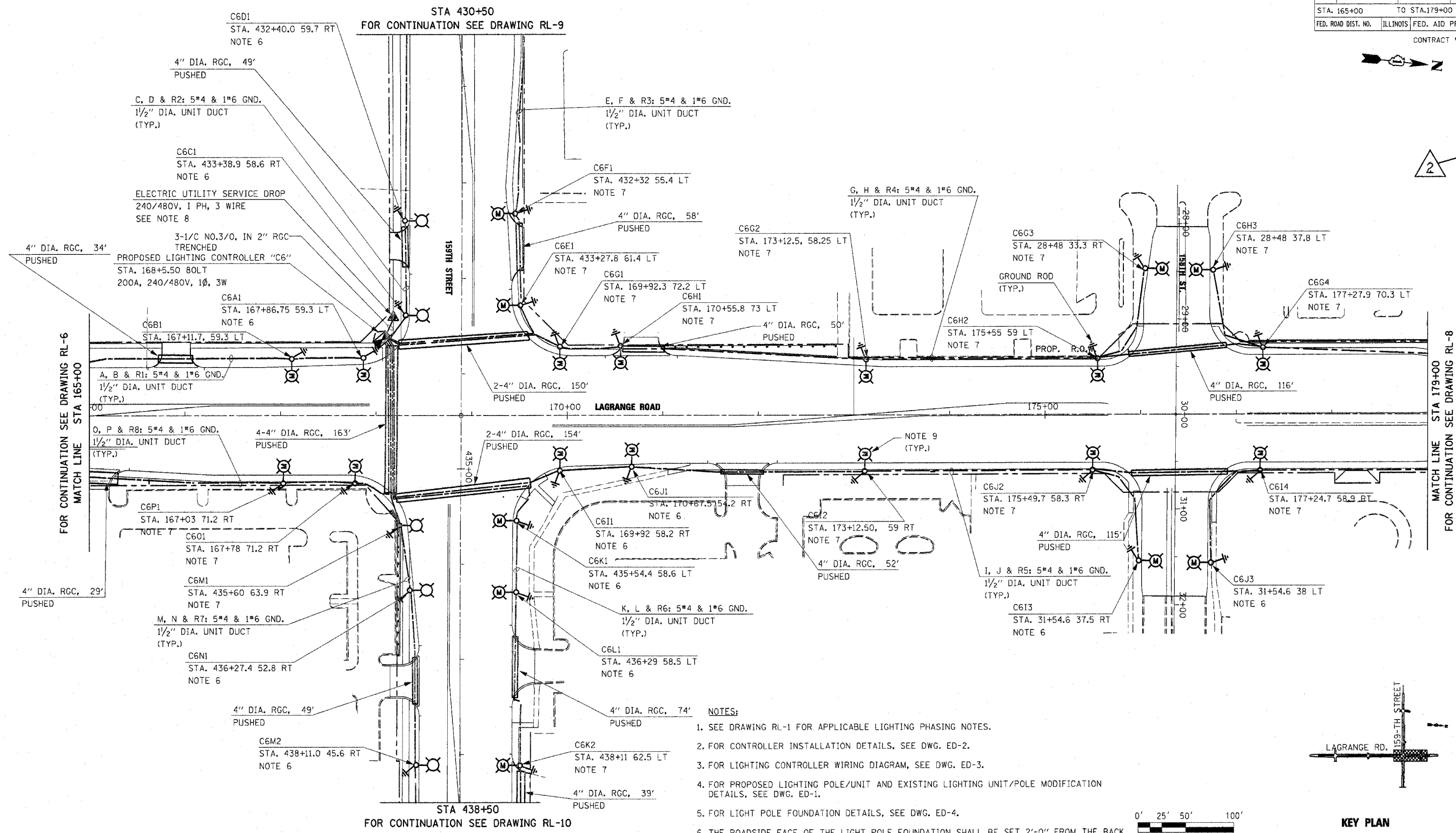
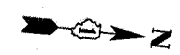
ILLINOIS DEPARTMENT OF TRANSPORTATION
US RTE 6 (159TH ST) AT US RTE 45 (LAGRANGE RD)
**159TH STREET (US RTE 6)
TEMPORARY LIGHTING AND REMOVAL PLAN
STA 438+50 TO 94TH AVE.**

SCALE: 1" = 50' DRAWN BY: MB
DATE: 7-07-06 CHECKED BY: KMY

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2

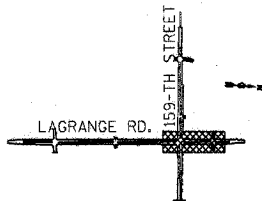
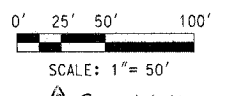
F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
351	537 R-1	COOK	245	166
STA. 165+00		TO STA. 179+00		
FED. ROAD DIST. NO.		ILLINOIS	FED. AID PROJECT	
CONTRACT # 62880				



FOR CONTINUATION SEE DRAWING RL-6
MATCH LINE STA 165+00

MATCH LINE STA 179+00
FOR CONTINUATION SEE DRAWING RL-8

- NOTES:**
- SEE DRAWING RL-1 FOR APPLICABLE LIGHTING PHASING NOTES.
 - FOR CONTROLLER INSTALLATION DETAILS, SEE DWG. ED-2.
 - FOR LIGHTING CONTROLLER WIRING DIAGRAM, SEE DWG. ED-3.
 - FOR PROPOSED LIGHTING POLE/UNIT AND EXISTING LIGHTING UNIT/POLE MODIFICATION DETAILS, SEE DWG. ED-1.
 - FOR LIGHT POLE FOUNDATION DETAILS, SEE DWG. ED-4.
 - THE ROADSIDE FACE OF THE LIGHT POLE FOUNDATION SHALL BE SET 2'-0" FROM THE BACK OF CURB.
 - INSTALL LIGHT POLE FOUNDATION ON THE BACK SIDE OF SIDEWALK.
 - FOR ELECTRIC SERVICE INSTALLATION DETAIL, SEE DWG. ED-5. THE EXACT LOCATION OF SERVICE POLE AND THE UTILITY SERVICE DROP TO BE DETERMINED IN THE FIELD.
 - INSTALL PREVIOUSLY REMOVED EXISTING LIGHTING UNIT ON A NEW FOUNDATION. THE CONTRACTOR SHALL REPLACE EXISTING 12'-0" MAST ARM WITH 15'-0" MAST ARM PRIOR TO THE INSTALLATION OF EXISTING LIGHTING UNIT ON A NEW FOUNDATION. THE COST OF THIS WORK SHALL BE INCLUDED IN THE COST OF "MODIFY EXISTING LIGHT POLE, ALUMINUM 47.5 FT M.H., WITH NEW 15 FT MAST ARM AND 20A, 120V, GFI RECEPTACLE" PAY ITEM. NO SEPARATE PAYMENT WILL BE MADE.



REVISIONS	
NAME	DATE

ILLINOIS DEPARTMENT OF TRANSPORTATION
US RTE 6 (159TH ST) AT US RTE 45 (LAGRANGE RD)
LAGRANGE ROAD (US45)
PROPOSED LIGHTING PLAN
STA 165+00 TO STA 179+00

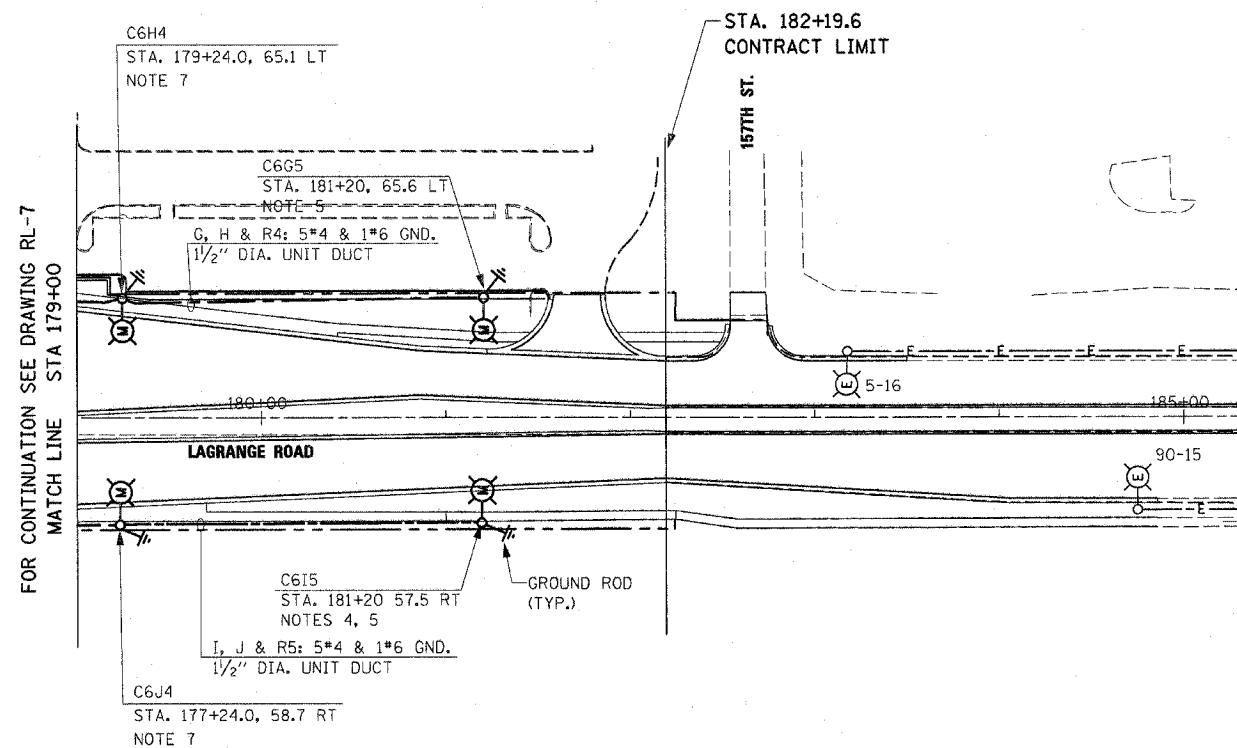
SCALE: 1" = 50'
DATE: 7-07-06

DRAWN BY: MB
CHECKED BY: KMY

McDonough Associates Inc.
Engineers / Architects

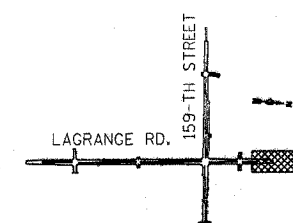
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10/28/2006
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F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
351	537 R-1	COOK	245	167
STA. 179+00		TO STA. 183+50		
FED. ROAD DIST. NO.		ILLINOIS	FED. AID PROJECT	
CONTRACT # 62880				

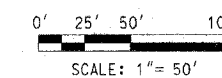


NOTES:

1. SEE DRAWING RL-1 FOR APPLICABLE LIGHTING PHASING NOTES.
2. FOR EXISTING LIGHTING UNIT/POLE MODIFICATION DETAIL, SEE DWG. ED-1.
3. FOR LIGHT POLE FOUNDATION DETAILS, SEE DWG. ED-4.
4. INSTALL LIGHT POLE FOUNDATION ON THE BACK SIDE OF SIDEWALK.
5. INSTALL PREVIOUSLY REMOVED EXISTING LIGHTING UNIT ON A NEW FOUNDATION. THE CONTRACTOR SHALL REPLACE EXISTING 12'-0" MAST ARM WITH 15'-0" MAST ARM PRIOR TO THE INSTALLATION OF EXISTING LIGHTING UNIT ON A NEW FOUNDATION. THE COST OF THIS WORK SHALL BE INCLUDED IN THE COST OF "MODIFY EXISTING LIGHT POLE, ALUMINUM 47.5 FT M.H., WITH NEW 15 FT MAST ARM AND 20A, 120V, GFI RECEPTACLE" PAY ITEM. NO SEPARATE PAYMENT WILL BE MADE.



KEY PLAN



Rev. 11-1-06

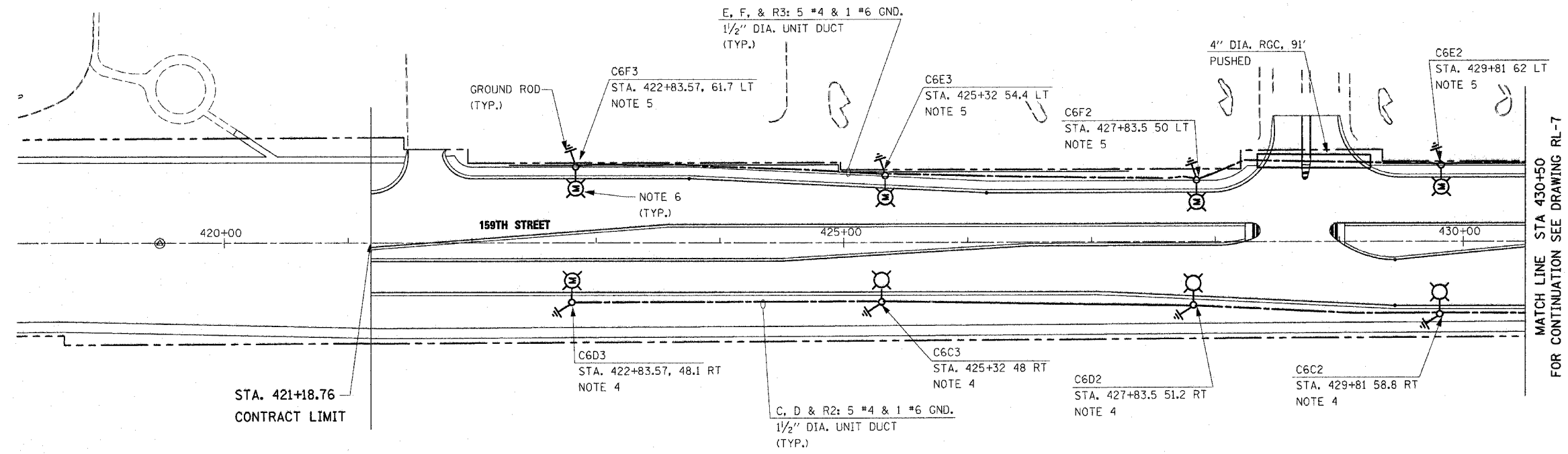
REVISIONS	
NAME	DATE

ILLINOIS DEPARTMENT OF TRANSPORTATION
US RTE 6 (159TH ST) AT US RTE 45 (LAGRANGE RD)
**LAGRANGE ROAD (US45)
PROPOSED LIGHTING PLAN
STA 179+00 TO STA 182+19.6**
SCALE: 1" = 50'
DATE: 7-07-06
DRAWN BY: MB
CHECKED BY: KMY

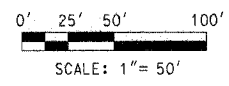
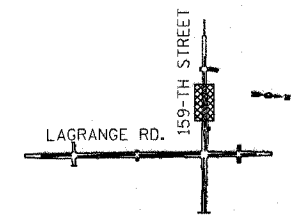
McDonough Associates Inc.
Engineers / Architects

RL-8

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
351	537 R-1	COOK	245	168
STA. 421+18.76		TO STA. 427+00		
FED. ROAD DIST. NO.	ILLINOIS	FED. AID PROJECT		
CONTRACT # 62880				



- NOTES:**
- SEE DRAWING RL-1 FOR APPLICABLE LIGHTING PHASING NOTES.
 - FOR PROPOSED LIGHTING POLE/UNIT AND EXISTING LIGHTING UNIT/POLE MODIFICATION DETAILS, SEE DWG. ED-1.
 - FOR LIGHT POLE FOUNDATION DETAILS, SEE DWG. ED-4.
 - THE ROADSIDE FACE OF THE LIGHT POLE FOUNDATION SHALL BE SET 2'-0" FROM THE BACK OF CURB.
 - INSTALL LIGHT POLE FOUNDATION ON THE BACK SIDE OF SIDEWALK.
 - INSTALL PREVIOUSLY REMOVED EXISTING LIGHTING UNIT ON A NEW FOUNDATION. THE CONTRACTOR SHALL REPLACE EXISTING 12'-0" MAST ARM WITH 15'-0" MAST ARM PRIOR TO THE INSTALLATION OF EXISTING LIGHTING UNIT ON A NEW FOUNDATION. THE COST OF THIS WORK SHALL BE INCLUDED IN THE COST OF "MODIFY EXISTING LIGHT POLE, ALUMINUM 47.5 FT M.H., WITH NEW 15 FT MAST ARM AND 20A, 120V, GFI RECEPTACLE" PAY ITEM. NO SEPARATE PAYMENT WILL BE MADE.



Rev. 11-1-06

REVISIONS	
NAME	DATE

RL-9

ILLINOIS DEPARTMENT OF TRANSPORTATION
 US RTE 6 (159TH ST) AT US RTE 45 (LAGRANGE RD)
**159TH STREET (US RTE 6)
 PROPOSED LIGHTING PLAN
 STA 421+18.76 TO STA 430+50**

SCALE: 1" = 50'
 DATE: 7-07-06

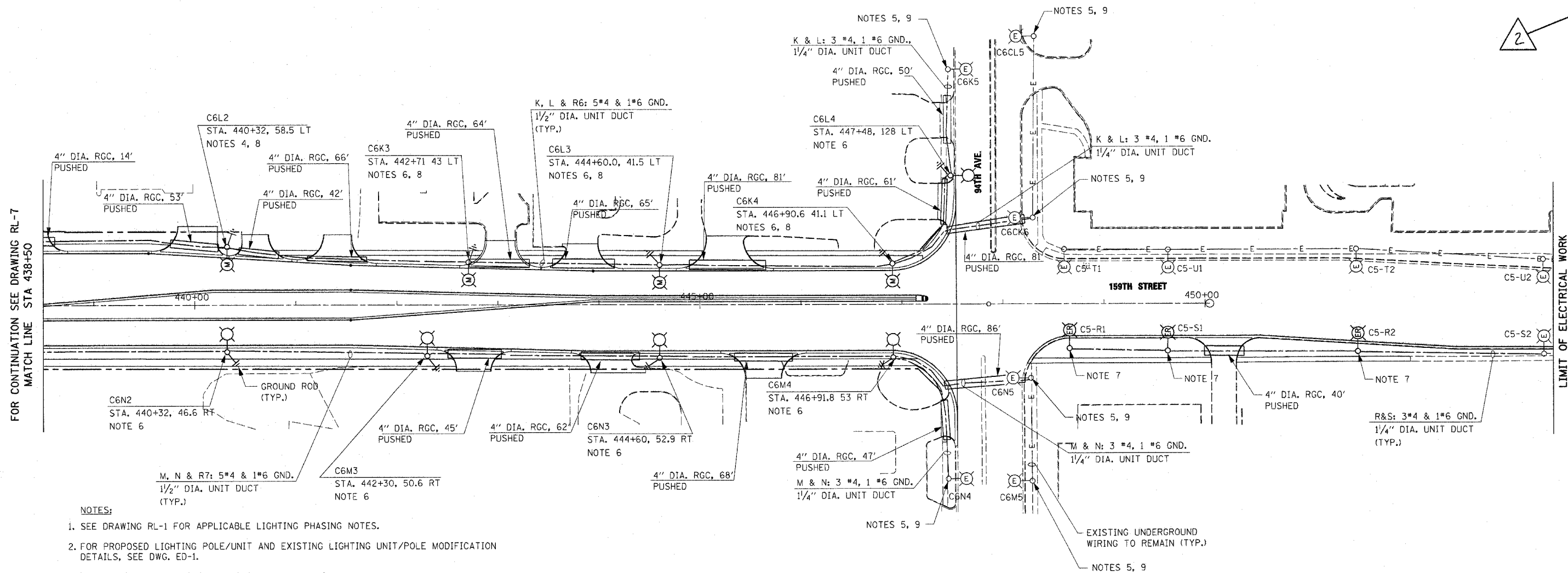
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McDonough Associates Inc.
 Engineers / Architects

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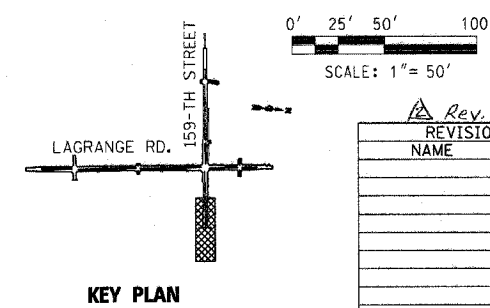
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FOR CONTINUATION SEE DRAWING RL-7
MATCH LINE STA 438+50

LIMIT OF ELECTRICAL WORK
IN THIS CONTRACT

- NOTES:**
- SEE DRAWING RL-1 FOR APPLICABLE LIGHTING PHASING NOTES.
 - FOR PROPOSED LIGHTING POLE/UNIT AND EXISTING LIGHTING UNIT/POLE MODIFICATION DETAILS, SEE DWG. ED-1.
 - FOR LIGHT POLE FOUNDATION DETAILS, SEE DWG. ED-4.
 - INSTALL LIGHT POLE FOUNDATION ON THE BACK SIDE OF SIDEWALK.
 - REVISE LIGHT POLE/UNIT IDENTIFICATION AS SHOWN ON THIS PLAN. THE COST OF THIS WORK SHALL BE INCLUDED IN THE "UNIT DUCT" PAY ITEM. NO SEPARATE PAYMENT WILL BE MADE.
 - THE ROADSIDE FACE OF THE LIGHT POLE FOUNDATION SHALL BE SET 2'-0" FROM THE BACK OF CURB.
 - REINSTALL EXISTING LIGHTING UNIT ON A NEW FOUNDATION AFTER TEMPORARY PAVEMENT HAS BEEN REMOVED.
 - INSTALL PREVIOUSLY REMOVED EXISTING LIGHTING UNIT ON A NEW FOUNDATION. THE CONTRACTOR SHALL REPLACE EXISTING 12'-0" MAST ARM WITH 15'-0" MAST ARM PRIOR TO THE INSTALLATION OF EXISTING LIGHTING UNIT ON A NEW FOUNDATION. THE COST OF THIS WORK SHALL BE INCLUDED IN THE COST OF "MODIFY EXISTING LIGHT POLE, ALUMINUM 47.5 FT M.H., WITH NEW 15 FT MAST ARM AND 20A, 120V, GFI RECEPTACLE" PAY ITEM. NO SEPARATE PAYMENT WILL BE MADE.
 - REWORK EXISTING UNDERGROUND WIRING AS REQUIRED TO CONNECT THE EXISTING LIGHTING UNIT TO PROPOSED LIGHTING CONTROLLER "C6". THE COST OF THIS WORK SHALL BE INCLUDED IN THE COST OF APPLICABLE UNIT DUCT PAY ITEM. NO SEPARATE PAYMENT WILL BE MADE.



Rev. 11-1-06

REVISIONS	
NAME	DATE

RL-10

ILLINOIS DEPARTMENT OF TRANSPORTATION
US RTE 6 (159TH ST) AT US RTE 45 (LAGRANGE RD)
**159TH STREET (US RTE 6)
PROPOSED LIGHTING PLAN
STA 438+50 TO 94TH AVE.**

SCALE: 1" = 50' DRAWN BY: MB
DATE: 7-07-06 CHECKED BY: KMY

McDonough Associates Inc.
Engineers / Architects

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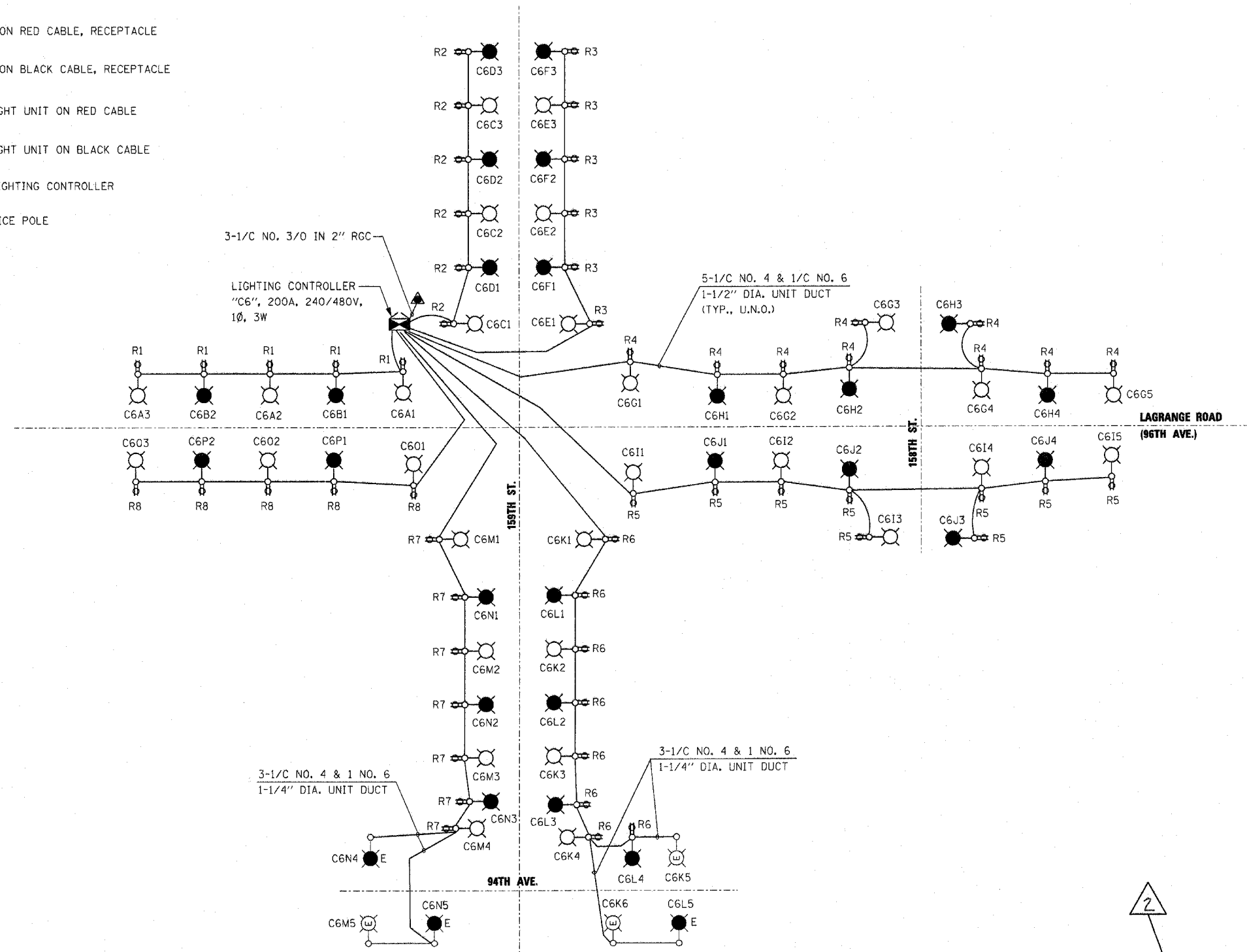
CIRCUIT	AMPS	VA
A	6	1440
B	4	960
C	6	1440
D	6	1440
E	6	1440
F	6	1440
G	10	2400
H	8	1920
I	10	2400
J	8	1920
K	12	2880
L	10	2400
M	10	2400
N	12.25	2940
O	8.25	1980
P	5.5	1320
S	20.6	4950
T	20.6	4950
TOTAL	204.5	49080

NOTE:
LOAD INFORMATION IS BASED ON THE FOLLOWING DATA:
400W HPS LUMINAIRE: 2AMP @ 240V

CIRCUIT	AMPS	VA
R1	7.5	900
R2	9	1080
R3	9	1080
R4	13.5	1620
R5	13.5	1620
R6	12	1440
R7	10.5	1260
R8	7.5	900
TOTAL	82.5	9900

NOTE:
LOAD INFORMATION IS BASED ON THE FOLLOWING DATA:
180VA RECEPTACLE LOAD: 1.5AMP @ 120V

- LEGEND**
- LIGHT UNIT ON RED CABLE
 - LIGHT UNIT ON BLACK CABLE
 - LIGHT UNIT ON RED CABLE, RECEPTACLE
 - LIGHT UNIT ON BLACK CABLE, RECEPTACLE
 - EXISTING LIGHT UNIT ON RED CABLE
 - EXISTING LIGHT UNIT ON BLACK CABLE
 - PROPOSED LIGHTING CONTROLLER
 - COMED SERVICE POLE



WE-1

NAME	DATE

ILLINOIS DEPARTMENT OF TRANSPORTATION
US RTE 6 (159TH ST) AT US RTE 45 (LAGRANGE RD)

**PROPOSED SINGLE LINE DIAGRAM
LIGHTING CONTROLLER "C6"**

SCALE: NONE
DATE: 7-07-06

DRAWN BY: MB
CHECKED BY: KMY

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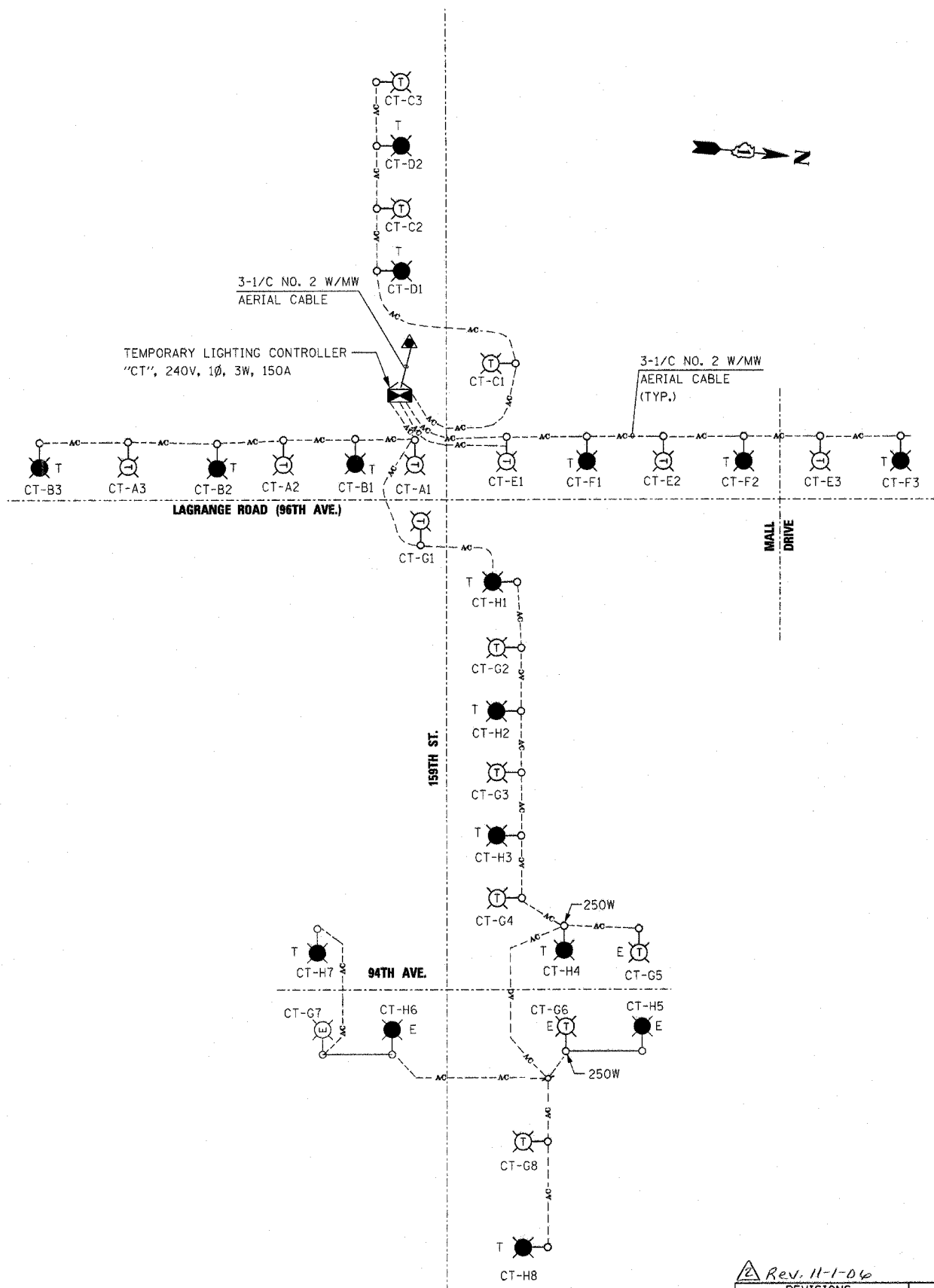
Rev. 11-1-06

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F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
351	537 R-1	COOK	245	171
STA.		TO STA.		
FED. ROAD DIST. NO.		ILLINOIS	FED. AID PROJECT	
CONTRACT # 62880				

CIRCUIT	AMPS	VA
A	10.5	2520
B	10.5	2520
C	10.5	2520
D	7.0	1680
E	10.5	2520
F	10.5	2520
G	19.3	4632
H	19.8	4752
TOTAL	98.6	23664

NOTE:
LOAD INFORMATION IS BASED ON THE FOLLOWING DATA:
250W HPS LUMINAIRE: 1.3AMP @240V
400W HPS LUMINAIRE: 2AMP @ 240V
750W HPS LUMINAIRE: 3.5AMP @ 240V



- LEGEND**
- TEMPORARY LIGHT UNIT ON RED CABLE
 - TEMPORARY LIGHT UNIT ON BLACK CABLE
 - EXISTING LIGHT UNIT ON RED CABLE
 - EXISTING LIGHT UNIT ON BLACK CABLE
 - TEMPORARY LIGHTING CONTROLLER
 - COMED SERVICE POLE
 - WOOD POLE

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Rev. 11-1-06

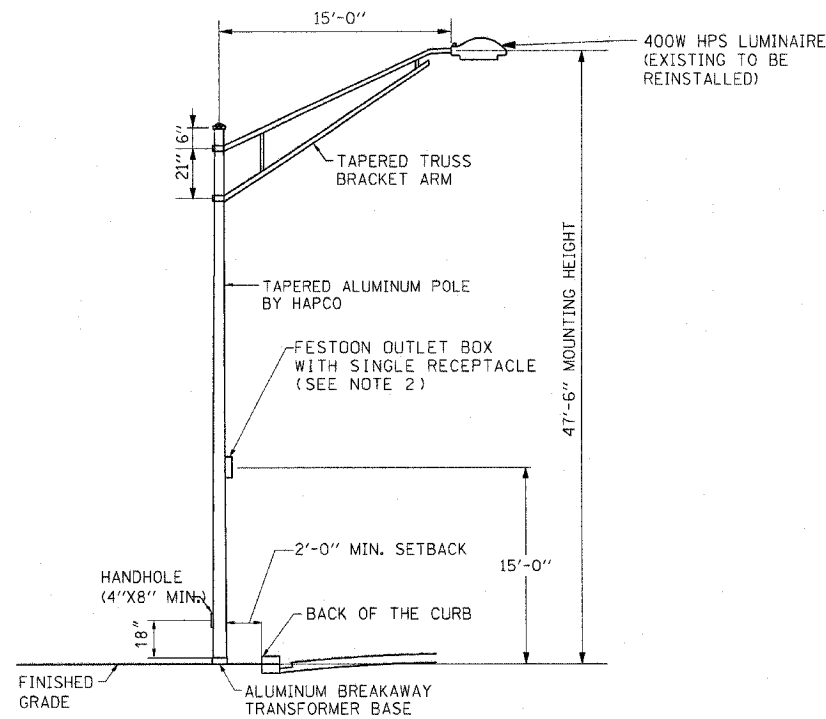
REVISIONS	
NAME	DATE

ILLINOIS DEPARTMENT OF TRANSPORTATION
US RTE 6 (159TH ST) AT US RTE 45 (LAGRANGE RD)
**SINGLE LINE DIAGRAM
TEMPORARY LIGHTING CONTROLLER "CT"**
SCALE: NONE
DATE: 7-07-06
DRAWN BY: MB
CHECKED BY: KMY

WE-2

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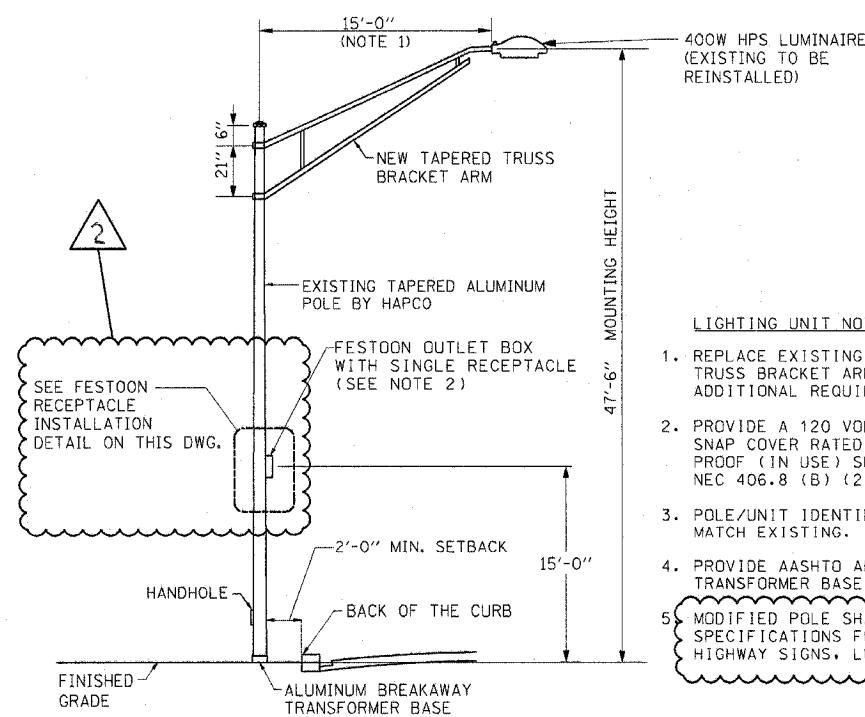


PROPOSED LIGHTING POLE UNIT DETAIL

N.T.S.

LIGHTING UNIT NOTES:

- POLE DESIGN SHALL CONFORM WITH A.A.S.H.T.O. 1985 OR LATEST "STANDARD SPECIFICATIONS FOR STRUCTURAL SUPPORTS FOR HIGHWAY SIGNS, LUMINAIRES AND TRAFFIC SIGNALS" FOR 80 M.P.H. WIND SPEED AND THE VILLAGE OF ORLAND PARK SECTION 6-407 REQUIREMENTS.
- PROVIDE A 120 VOLT, 20 AMP RECEPTACLE ICE AND SNAP COVER RATED FOR WATER TIGHT AND WEATHER PROOF (IN USE) SERVICE, IN ACCORDANCE WITH NEC 406.8 (B) (2) (c).
- POLE/UNIT IDENTIFICATION MOUNTING HEIGHT SHALL MATCH EXISTING. THE CONTRACTOR SHALL VERIFY THE MOUNTING HEIGHT IN THE FIELD.
- PROVIDE AASHTO APPROVED ALUMINUM BREAKAWAY TRANSFORMER BASE.
- THE COMPLETE LIGHT STANDARD SHALL BE IDENTICAL TO THE TYPE MANUFACTURED BY THE HAPCO COMPANY TO MATCH THE EXISTING LIGHTING UNITS.

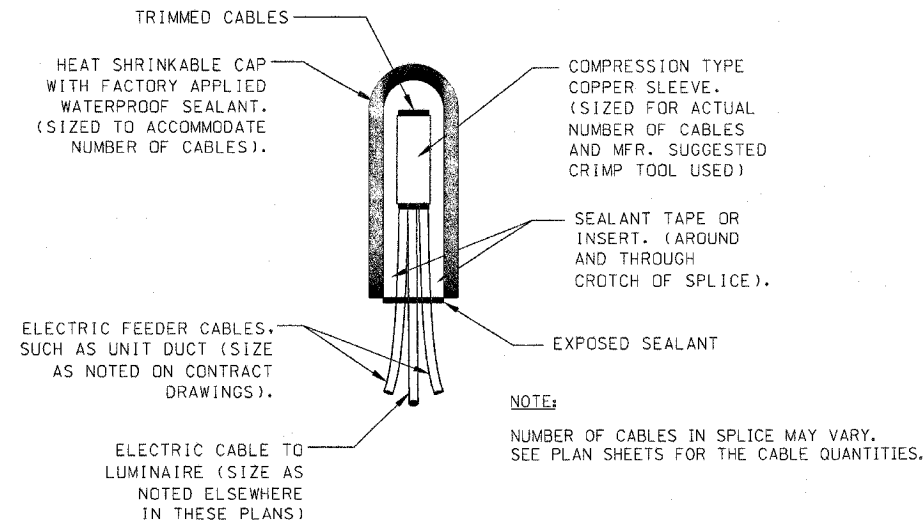


EXISTING LIGHTING POLE UNIT MODIFICATION DETAIL

N.T.S.

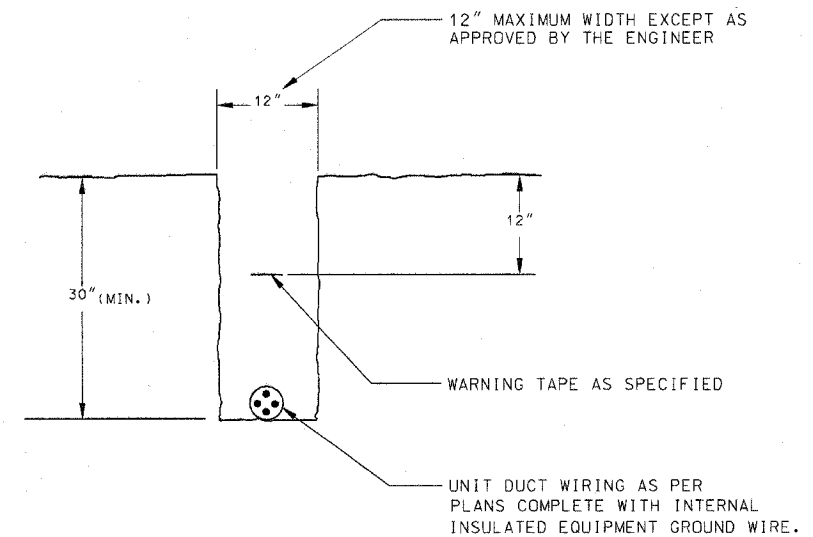
LIGHTING UNIT NOTES:

- REPLACE EXISTING 12 FT. MAST ARM WITH TAPERED TRUSS BRACKET ARM. SEE SPECIAL PROVISIONS FOR ADDITIONAL REQUIREMENTS.
- PROVIDE A 120 VOLT, 20 AMP RECEPTACLE ICE AND SNAP COVER RATED FOR WATER TIGHT AND WEATHER-PROOF (IN USE) SERVICE, IN ACCORDANCE WITH NEC 406.8 (B) (2) (c).
- POLE/UNIT IDENTIFICATION MOUNTING HEIGHT SHALL MATCH EXISTING.
- PROVIDE AASHTO APPROVED ALUMINUM BREAKAWAY TRANSFORMER BASE.
- MODIFIED POLE SHALL CONFORM TO "AASHTO STANDARD SPECIFICATIONS FOR STRUCTURAL SUPPORTS FOR HIGHWAY SIGNS, LUMINAIRES AND TRAFFIC SIGNALS."



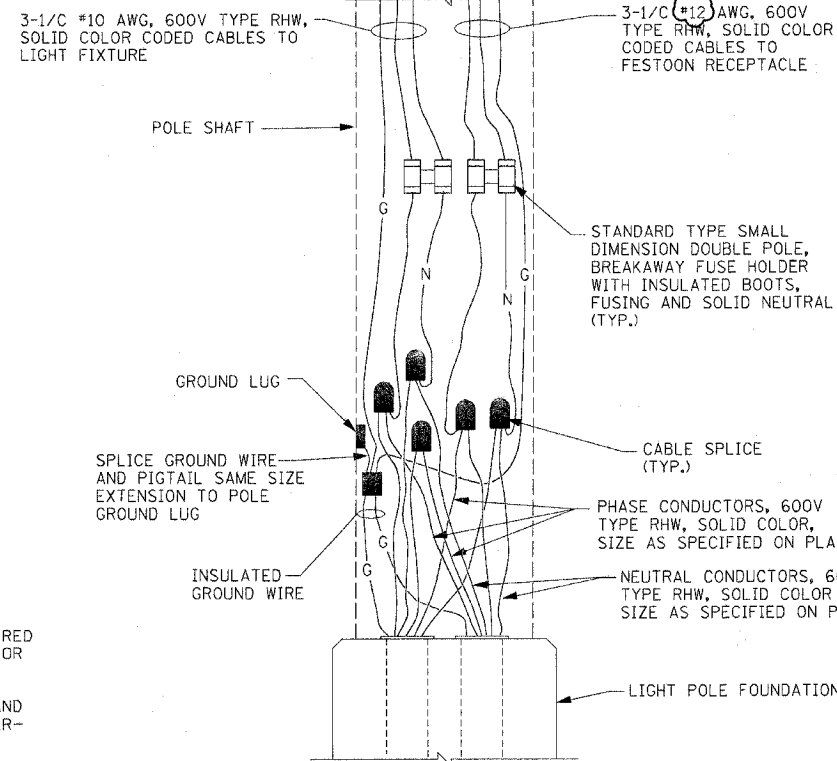
TYPICAL SPLICE DETAIL

NOTE:
NUMBER OF CABLES IN SPLICE MAY VARY. SEE PLAN SHEETS FOR THE CABLE QUANTITIES.



TYPICAL WIRING IN TRENCH - DETAIL

N.T.S.

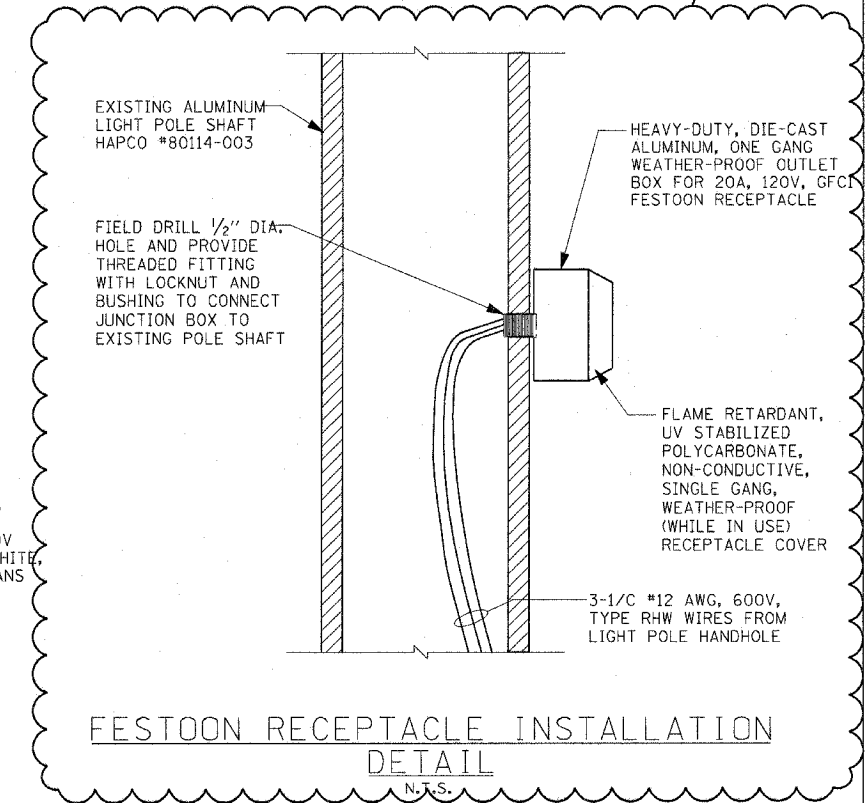


POLE BASE WIRING DIAGRAM

N.T.S.

NOTES:

- FUSES SHALL BE OF THE TIME DELAY TYPE (SEE SPECS.).
- FOR AN END POLE, CAP AND SEAL THE UNUSED ELBOW.
- CABLE/WIRE COLOR CODING:
BLACK - PHASE CONDUCTOR
RED - PHASE CONDUCTOR
WHITE - NEUTRAL CONDUCTOR
GREEN - GROUND CONDUCTOR



FESTOON RECEPTACLE INSTALLATION DETAIL

N.T.S.

ED-1

REVISIONS	
NAME	DATE

ILLINOIS DEPARTMENT OF TRANSPORTATION
US RTE 6 (159TH ST) AT US RTE 45 (LAGRANGE RD)

POLE AND WIRING DETAILS

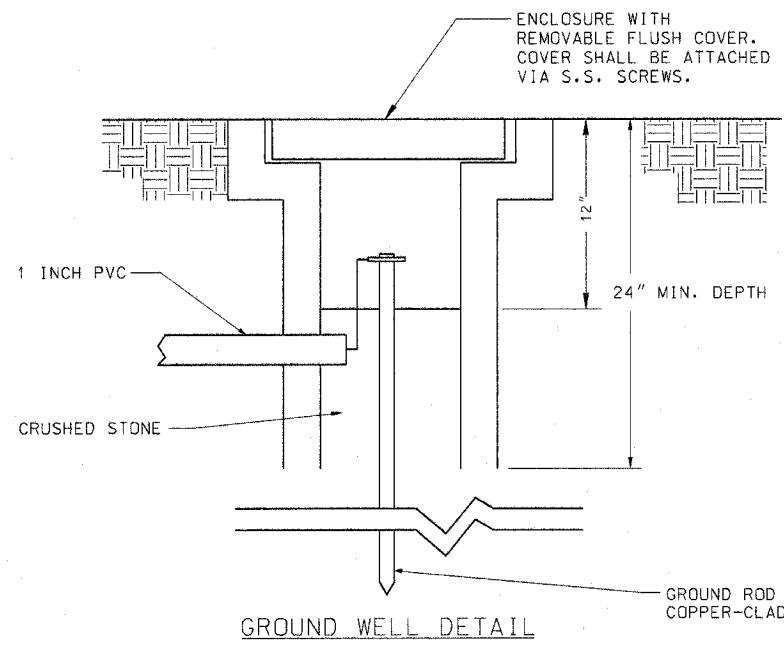
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DATE: 7-07-06

DRAWN BY: MB
CHECKED BY: KMY

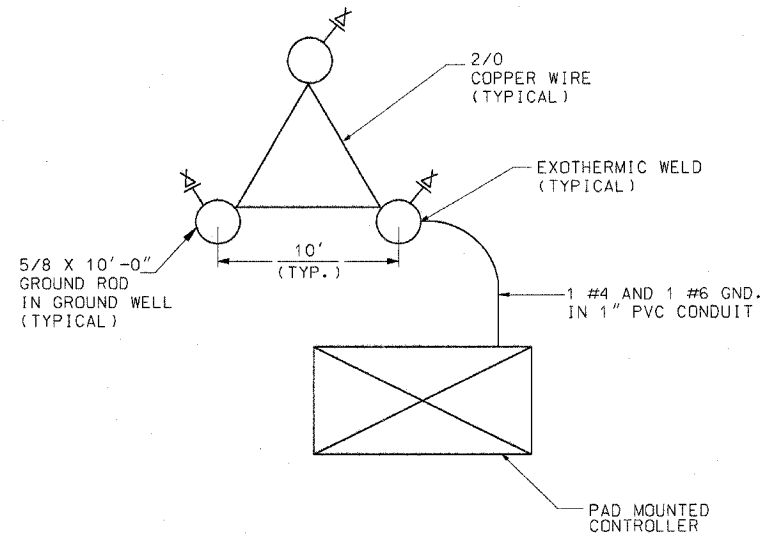
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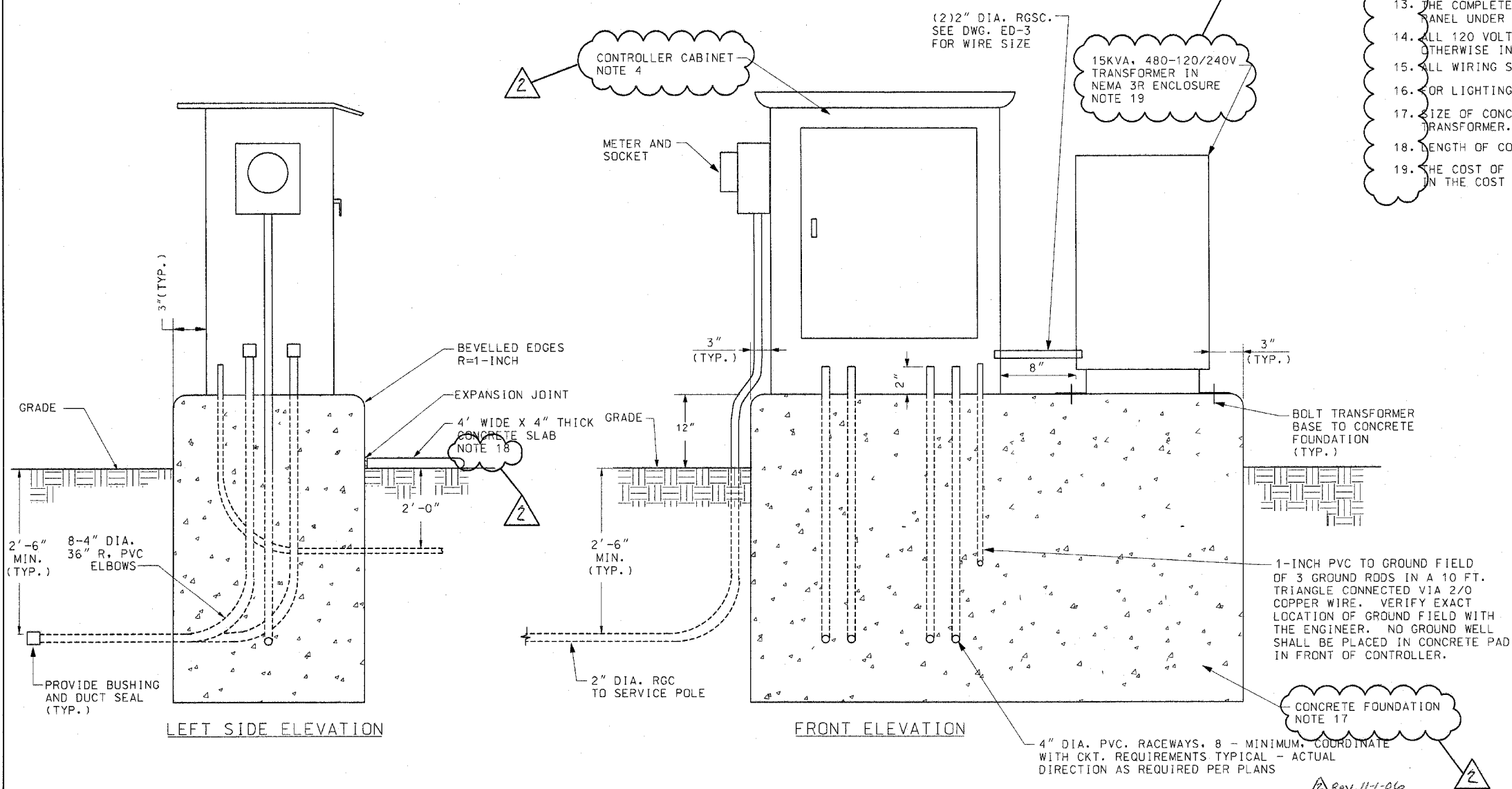
GROUND WELL DETAIL



GROUND FIELD DETAIL

GENERAL NOTES:

- COORDINATE PLACEMENT OF RACEWAYS WITH CONTROLLER MANUFACTURER TO ASSURE DOOR LATCH DOES NOT INTERFERE WITH CABLES OR OTHER DEVICES.
- THE CONTRACTOR SHALL PROVIDE A GROUND FIELD AT EACH CABINET LOCATION. THE GROUND RODS, ANCHOR BOLTS AND REINFORCEMENT STEEL SHALL ALL BE INTERCONNECTED.
- THE CONTRACTOR SHALL VERIFY EXACT LOCATION OF GROUND FIELD WITH THE ENGINEER.
- SEE DRAWING ED-6 FOR CONTROL CABINET DETAILS.
- ALL SCREWS AND HARDWARE SHALL BE PLATED, GALVANIZED, OR MADE OF BRASS, ALUMINUM OR STAINLESS STEEL.
- NAME PLATE SHALL HAVE ENGRAVED 0.75 INCH HIGH LETTERS FILLED IN BLACK: "ROADWAY LIGHTING CONTROLLER, VILLAGE OF ORLAND PARK".
- ONE INCH THICK POLYISOCYANURATE INSULATION SHALL BE INSTALLED AND PERMANENTLY CEMENTED ON ALL SIDES OF THE CABINET AND DOORS.
- ALL DEVICES SHALL BE FRONT REMOVABLE.
- ALL LUGS SHALL BE OF COPPER SCREWS AND CONNECTORS, SPRING HELD.
- ALL CONTROL WIRING SHALL BE 600V MACHINE TOOL WIRE TYPE MTW.
- ALL POWER WIRING SHALL BE 600V TYPE RHH/RHW.
- CIRCUIT BREAKERS, CONTACTORS AND OTHER COMPONENTS SHALL BE PANEL MOUNTED ON 0.125 INCH THICK GLASTIC INSULATION BACK PANEL.
- THE COMPLETED CONTROLLER SHALL BE U.L. LISTED AS AN INDUSTRIAL CONTROL PANEL UNDER UL508.
- ALL 120 VOLT SYSTEM AND ALL CONTROL WIRING SHALL BE #12AWG STRANDED UNLESS OTHERWISE INDICATED.
- ALL WIRING SHALL BE NEATLY DRESSED AND SUPPORTED.
- FOR LIGHTING CONTROLLER WIRING DIAGRAM, SEE DRAWING ED-3.
- SIZE OF CONCRETE FOUNDATION AS REQUIRED TO SUPPORT CONTROL CABINET AND TRANSFORMER.
- LENGTH OF CONCRETE SLAB SHOULD MATCH LENGTH OF CONCRETE FOUNDATION.
- THE COST OF THE TRANSFORMER AND THE RELATED WORK SHALL BE INCLUDED IN THE COST OF "LIGHTING CONTROLLER, SPECIAL, 200A, 240/480V" PAY ITEM.



LEFT SIDE ELEVATION

FRONT ELEVATION

REVISIONS	
NAME	DATE

ILLINOIS DEPARTMENT OF TRANSPORTATION
US RTE 6 (159TH ST) AT US RTE 45 (LAGRANGE RD)

**GROUNDING AND LIGHTING CONTROLLER
INSTALLATION DETAILS**

SCALE: NONE
DATE: 7-07-06

DRAWN BY: MB
CHECKED BY: KMY

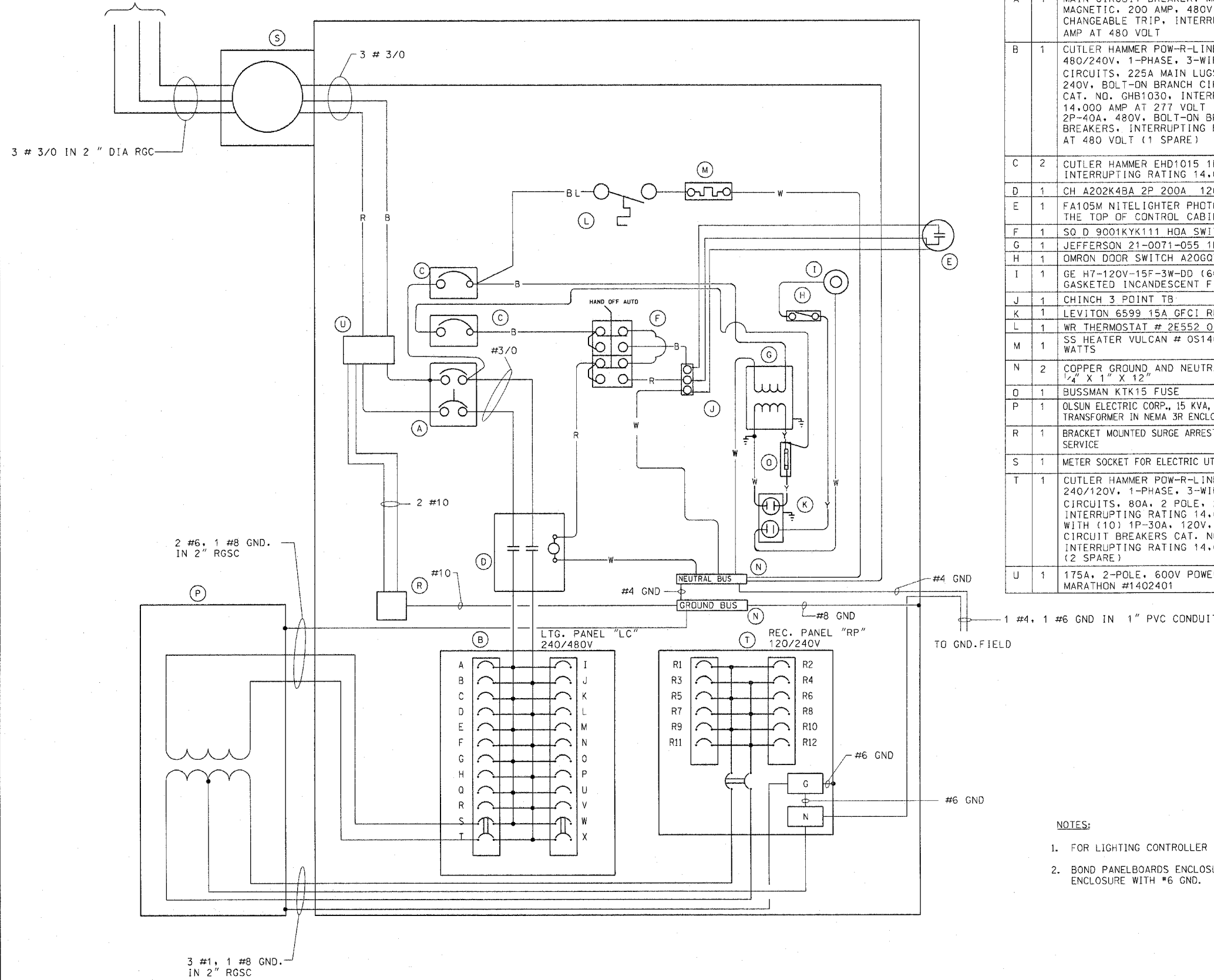
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ED-2

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ELECTRICAL SERVICE FROM COMED
200A, 240/480V, 1 PH, 3W



BILL OF MATERIALS		
ITEM	QTY	DESCRIPTION
A	1	MAIN CIRCUIT BREAKER, MOLDED CASE, THERMAL MAGNETIC, 200 AMP, 480V, 2POLE, NON-INTERCHANGEABLE TRIP, INTERRUPTING RATING 25,000 AMP AT 480 VOLT
B	1	CUTLER HAMMER POW-R-LINE C PANELBOARD PRL2A, 480/240V, 1-PHASE, 3-WIRE, 30 BRANCH CIRCUITS, 225A MAIN LUGS, WITH (20) 1P-30A 240V, BOLT-ON BRANCH CIRCUIT BREAKERS, CAT. NO. GHB1030, INTERRUPTING RATING 14,000 AMP AT 277 VOLT (4 SPARE) AND (2) 2P-40A, 480V, BOLT-ON BRANCH CIRCUIT BREAKERS, INTERRUPTING RATING 14,000 AMP AT 480 VOLT (1 SPARE)
C	2	CUTLER HAMMER EHD1015 1P 15 AMP, 240V, INTERRUPTING RATING 14,000 AMP AT 277 VOLT
D	1	CH A202K4BA 2P 200A 120V COIL
E	1	FA105M NITELIGHTER PHOTOCELL (MOUNTED ON THE TOP OF CONTROL CABINET)
F	1	SQ D 9001KYK111 HOA SWITCH
G	1	JEFFERSON 21-0071-055 1KVA XFORMER
H	1	OMRON DOOR SWITCH A20GQ7BK
I	1	GE H7-120V-15F-3W-DD (60W ENCLOSED AND GASKETED INCANDESCENT FIXTURE)
J	1	CHINCH 3 POINT TB
K	1	LEVITON 6599 15A GFCI RECP
L	1	WR THERMOSTAT # 2E552 0-50 DEG.
M	1	SS HEATER VULCAN # OS1408-250B 250 WATTS
N	2	COPPER GROUND AND NEUTRAL BUS, MIN. 1/4" X 1" X 12"
O	1	BUSSMAN KTK15 FUSE
P	1	OLSUN ELECTRIC CORP., 15 KVA, SINGLE PHASE, 480-120/240V TRANSFORMER IN NEMA 3R ENCLOSURE CAT. # GS15LE-6
R	1	BRACKET MOUNTED SURGE ARRESTER FOR 480/240V, 3W SERVICE
S	1	METER SOCKET FOR ELECTRIC UTILITY COMPANY METER
T	1	CUTLER HAMMER POW-R-LINE C PANELBOARD PRL1A, 240/120V, 1-PHASE, 3-WIRE, 18 BRANCH CIRCUITS, 80A, 2 POLE, 240V MAIN BREAKER, INTERRUPTING RATING 14,000 AMP AT 277V, WITH (10) 1P-30A, 120V, BOLT-ON GFCI BRANCH CIRCUIT BREAKERS CAT. NO. GHBGFE1030, INTERRUPTING RATING 14,000 AMP AT 120 VOLT (2 SPARE)
U	1	175A, 2-POLE, 600V POWER DISTRIBUTION BLOCK MARATHON #1402401

POWER WIRING RHH/RHW
CONTROL WIRING #12 MTW
NEUTRAL BUS COLOR CODED WHITE
GROUND BUS COLOR CODED GREEN
UL LISTED

BL = BLUE
W = WHITE
B = BLACK
R = RED
Y = YELLOW

CONTROLLER WIRING BY EXCEL LTD. INC.
GRAYSLAKE, IL PHONE: 847-543-9138

NOTES:

- FOR LIGHTING CONTROLLER INSTALLATION DETAILS, SEE DRAWING ED-2.
- BOND PANELBOARDS ENCLOSURES "LC" AND "RP" TO THE CONTROLLER ENCLOSURE WITH #6 GND.



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Rev. 11-7-06

REVISIONS	
NAME	DATE

ED-3

ILLINOIS DEPARTMENT OF TRANSPORTATION
US RTE 6 (159TH ST) AT US RTE 45 (LAGRANGE RD)

**LIGHTING CONTROLLER "C6"
WIRING DIAGRAM**

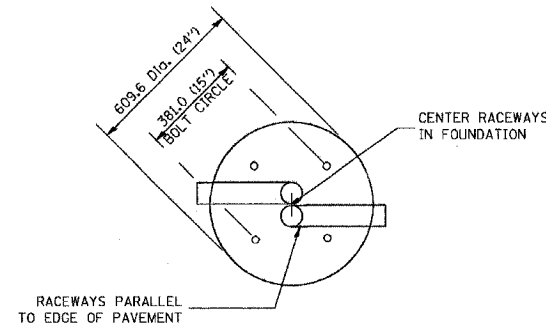
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DATE: 7-07-06

DRAWN BY: MB
CHECKED BY: KMY

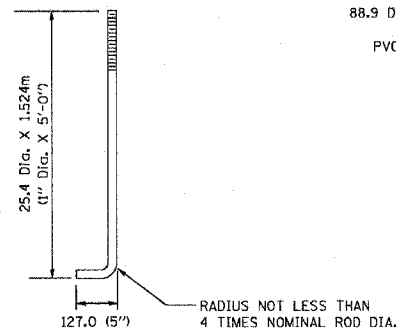
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Engineers / Architects

LIGHT POLE FOUNDATION DEPTH TABLE
12.192M (40 FT.) TO 14.478M (47.5 FT.) MOUNTING HEIGHT

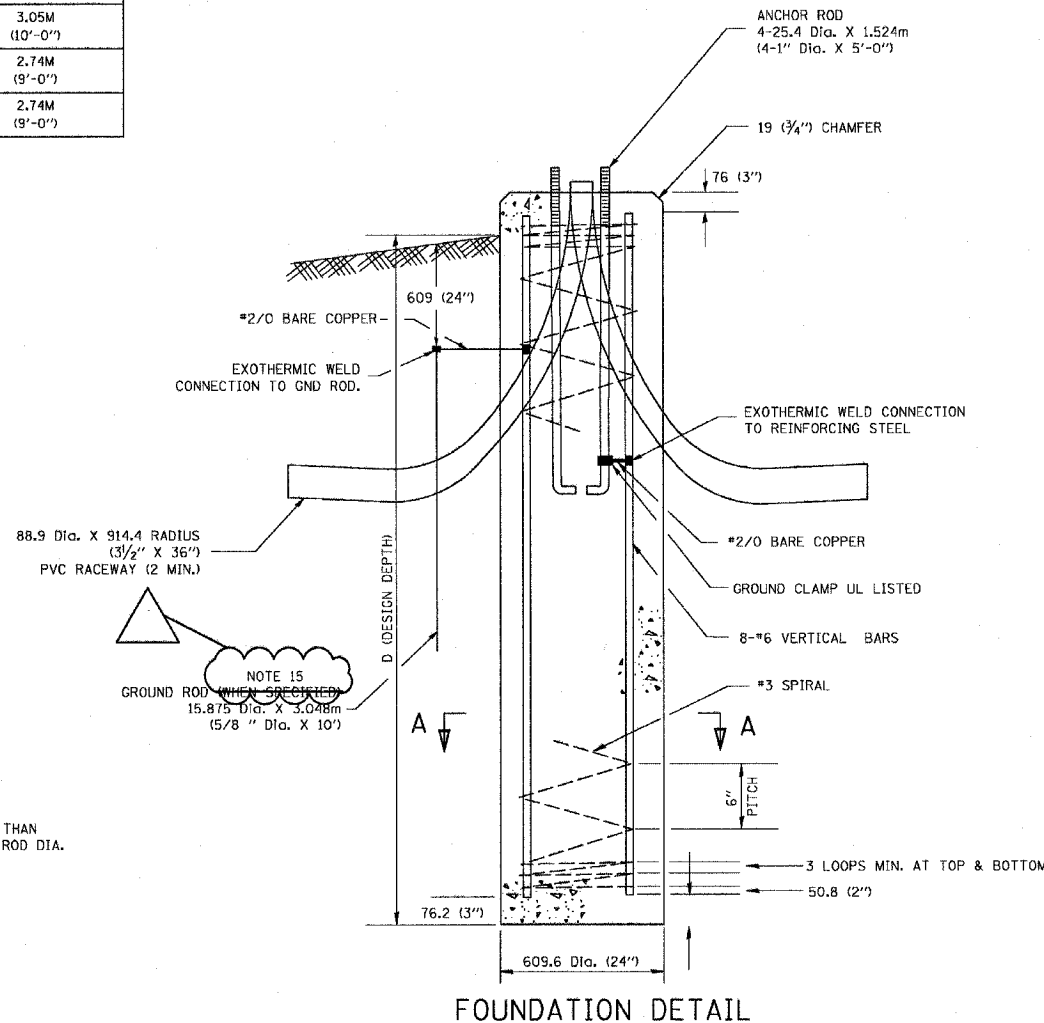
SOIL CONDITIONS	DESIGN DEPTH "D" OF FOUNDATION	
	SINGLE ARM POLE	TWIN ARM POLE
SOFT CLAY Qu = 0.375 TON/SO. FT.	3.96M (13'-0")	4.57M (15'-0")
MEDIUM CLAY Qu = 0.75 TON/SO. FT.	2.09M (9'-6")	3.23M (10'-9")
STIFF CLAY Qu = 1.50 TON/SO. FT.	2.13M (7'-0")	2.44M (8'-0")
LOOSE SAND φ = 34°	2.74M (9'-0")	3.05M (10'-0")
MEDIUM SAND φ = 37.5°	2.52M (8'-3")	2.74M (9'-0")
DENSE SAND φ = 40°	2.36M (7'-9")	2.74M (9'-0")



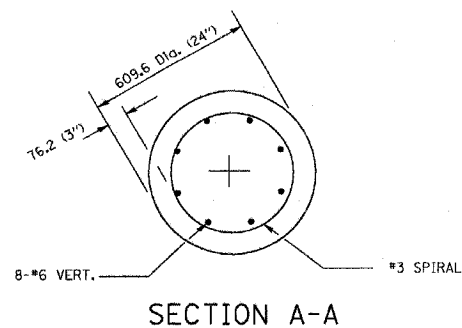
TOP VIEW



ANCHOR ROD DETAIL



FOUNDATION DETAIL



SECTION A-A

NOTES

- ALL DIMENSIONS ARE IN MILLIMETERS (INCHES) UNLESS OTHERWISE SHOWN.
- THE ANCHOR RODS AND RACEWAYS SHALL BE PROPERLY SECURED IN PLACE BEFORE THE CONCRETE IS PLACED.
- THE FOUNDATION SHALL NOT PROTRUDE MORE THAN 100MM (4 IN.) ABOVE THE FINISHED GRADE WITHIN A 1.5M (60 IN.) CHORD ACROSS THE FOUNDATION, WITH ANCHOR RODS INCLUDED, IN ACCORDANCE WITH AASHTO GUIDELINES. IF THE FOUNDATION HEIGHT, INCLUDING ANCHOR RODS, EXTENDS BEYOND THESE SPECIFIED LIMITS, THE FOUNDATION SHALL BE REPLACED AT THE CONTRACTOR'S EXPENSE. SEE FOUNDATION EXTENSION DETAIL.
- THE HOLE FOR THE FOUNDATION SHALL BE MADE BY DRILLING WITH AN AUGER, OF THE SAME DIAMETER AS THE FOUNDATION. IF SOIL CONDITIONS REQUIRE THE USE OF A LINER TO FORM THE HOLE, THE LINER SHALL BE WITHDRAWN AS THE CONCRETE IS DEPOSITED.
- THE TOP OF THE FOUNDATION SHALL BE CONSTRUCTED LEVEL. A LINER OR FORM SHALL BE USED TO PRODUCE A UNIFORM SMOOTH SIDE TO THE TOP OF THE FOUNDATION. FOUNDATION TOP SHALL BE CHAMFERED 20MM (3/4-IN.).
- THE CONCRETE SHALL BE CLASS SI. CONCRETE SHALL CURE ACCORDING TO ARTICLE 1020.13 BEFORE LIGHT POLES ARE INSTALLED.
- THE ANCHOR ROD SHALL BE A HOOK ROD TYPE. COLD BENDING OF THE ANCHOR ROD WILL NOT BE ALLOWED. THE RADIUS OF THE HOOK BEND SHALL NOT BE LESS THAN 4 TIMES THE NOMINAL DIAMETER OF THE ANCHOR ROD. A TACK WELDED ANCHOR ROD MAY BE SUBSTITUTED WITH THE APPROVAL OF THE ENGINEER.
- THE ANCHOR RODS SHALL BE ACCORDING TO ASTM F1554 GRADE 725 (GRADE 105). NUTS SHALL BE HEXAGON NUTS ACCORDING TO ASTM A 194 2H OR ASTM A 563 DH, AND WASHERS SHALL BE ACCORDING TO ASTM F 436.
- ANCHOR RODS, NUTS AND WASHERS SHALL BE COMPLETELY GALVANIZED BY EITHER THE HOT-DIPPED PROCESS CONFORMING WITH AASHTO M 232, THE MECHANICAL PLATING METHOD CONFORMING TO AASHTO M 298, CLASS 50 WITH A MAXIMUM COATING THICKNESS OF 150 UM(6 MILS) OR THE ELECTROLYTIC PROCESS ACCORDING TO ASTM F 1136.
- THE ANCHOR RODS SHALL BE THREADED A MINIMUM OF 150 MM (6 INCHES) WITH A MINIMUM OF 75 MM (3 INCHES) OF THREADED ANCHOR ROD EMBEDDED IN THE FOUNDATION.
- ANCHOR RODS SHALL PROJECT 69.9MM (2 3/4") ABOVE THE TOP OF THE FOUNDATION. IF BREAKAWAY COUPLINGS ARE SPECIFIED, THE CONTRACTOR SHALL CAREFULLY COORDINATE THE ANCHOR ROD PROJECTION WITH THE INSTALLATION REQUIREMENTS OF THE BREAKAWAY COUPLINGS.
- THE CONTRACTOR SHALL USE A #3 SPIRAL AT 152.4MM (6") PITCH OR MAY SUBSTITUTE #3 TIES AT 304.8MM (12") O.C. WITH THE APPROVAL OF THE ENGINEER.
- THE CABLE TRENCHES AND FOUNDATION SHALL BE BACK FILLED AND COMPACTED AS SPECIFIED BEFORE THE LIGHT POLE IS ERECTED.
- THE RACEWAYS SHALL PROJECT 25.4MM (1") ABOVE THE TOP OF THE FOUNDATION.
- THE COST OF GROUND ROD SHALL BE INCLUDED IN THE COST OF LIGHT POLE FOUNDATION PAY ITEM.

2

Rev. 11-1-06

ED-4

REVISIONS	
NAME	DATE

ILLINOIS DEPARTMENT OF TRANSPORTATION
US RTE 6 (159TH ST) AT US RTE 45 (LAGRANGE RD)

**LIGHT POLE FOUNDATION
DETAILS**

SCALE: NONE
DATE: 7-07-06

DRAWN BY: MB
CHECKED BY: KMY

McDonough Associates Inc.
Engineers / Architects

SPECIFICATIONS

PERFORMANCE - THE ENCLOSURE WILL MEET OR EXCEED THE REQUIREMENTS OF A NEMA 3R RATING AND SHALL BE U.L. LISTED.

MATERIAL - SHEET ALUMINUM 1/8" THICKNESS, ALLOY 5052 H32. SURFACE SHALL HAVE A SMOOTH, NATURAL ALUMINUM MILL FINISH. ALL WELDS TO BE HELIARC AND SHALL BE NEATLY FORMED AND FREE OF CRACKS, BLOW HOLES, AND OTHER DEFECTS. ALL EDGES TO BE FREE OF BURRS.

CABINET FEATURES - CABINET TOP SLOPED 1/2" TO THE REAR, WITH 1/8" X 1" VENT SLOTS UNDER FRONT OVERHAND.

DOORS AND LOCKS - THE MAIN DOOR IS OF NEMA TYPE 3R CONSTRUCTION WITH CELLULAR NEOPRENE GASKET, WHICH IS RAIN TIGHT. HINGE IS 2" OPEN AND IS CONTINUOUS 14 GAUGE STAINLESS STEEL WITH A 1/4" DIA. PIN AND IS CAPPED AT THE TOP TO RENDER IT TAMPER PROOF. THE HINGE IS SECURED WITH 1/4-20 STAINLESS STEEL CARRIAGE BOLTS AND ESNA LOCK NUTS. STANDARD EQUIPMENT INCLUDES A THREE POINT LOCKING SYSTEM, WHICH SECURES THE DOOR AT THE TOP, BOTTOM, AND CENTER. A CORBIN LOCK WITH TWO KEYS IS ALSO FURNISHED. THE MAIN DOOR IS ALSO EQUIPPED WITH A THREE POSITION DOOR STOP, ONE AT 90°, ONE AT 120°, AND ONE AT 180°. DOOR LOCKING RODS ARE 1/4" X 3/4" ALUMINUM TURNED EDGEWAYS WITH 1" NYLON ROLLERS. MAIN DOOR HANDLE IS 3/4" DIAMETER STAINLESS STEEL. THE CABINET DOOR SHALL BE HINGED ON THE RIGHT SIDE WHEN FACING THE FRONT OF THE CABINET.

EQUIPMENT MOUNTING - THE CABINET SHALL BE EQUIPPED WITH TWO ADJUSTABLE "L" MOUNTING CHANNELS WELDED TO EACH SIDE WALL AND THE BACK WALL ALLOWING FULL ADJUSTMENT OF SHELVES OR PANELS.

VENTILATION - VENT SLOTS (1/8" X 1") ARE PROVIDED ON THE UNDERSIDE OF THE COVER OVERHANG AND LOUVER SLOTS ARE FORMED IN THE LOWER PORTION OF THE MAIN DOOR. THIS CREATES A NATURAL MOVEMENT OF AIR AND HAS A COOLING EFFECT ON THE ELECTRICAL EQUIPMENT.

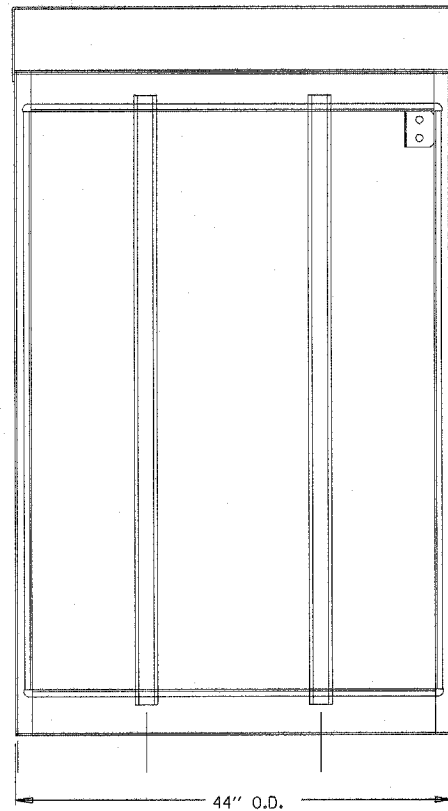
CABINET TYPE FOR PERMANENT CONTROLLER "LC" IS BASE MOUNTED AND EQUIPPED WITH INSIDE FLANGES AT THE FRONT, BACK, AND SIDES FOR ANCHORING TO A BASE (SEE INSTALLATION DETAILS ON DRAWING ED-2).

CABINET TYPE FOR TEMPORARY CONTROLLER "CT" IS POLE MOUNTED (SEE INSTALLATION DETAILS ON DRAWING ED-7).

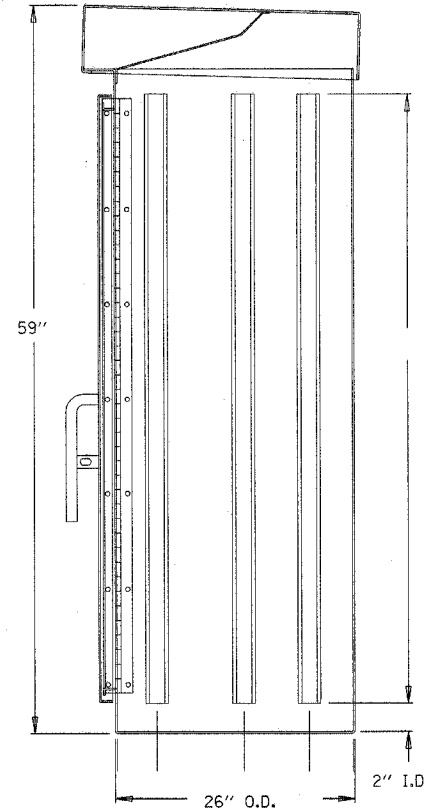
THIS SPECIFICATION IS PER IDOT STANDARD SPECIFICATIONS.

INDICATED DIMENSIONS REPRESENT THE MINIMUM REQUIREMENTS. DIMENSIONS SHALL BE INCREASED AS REQUIRED TO COMPLY WITH THE CODE AND TO ADEQUATELY HOUSE ALL REQUIRED COMPONENTS WITH AMPLE ROOM FOR ARRANGEMENT AND TERMINATION OF WIRING.

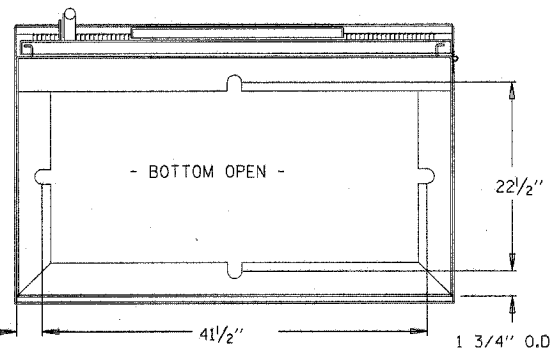
THE SERVICE EQUIPMENT SHALL BE MARKED TO IDENTIFY AS BEING SUITABLE AS SERVICE EQUIPMENT IN ACCORDANCE WITH NEC ARTICLE 230.66.



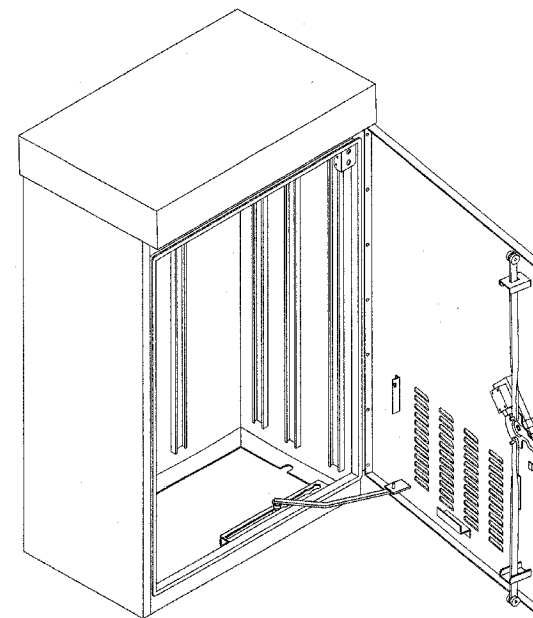
FRONT VIEW
DOOR REMOVED



RIGHT SIDE
VIEW



BOTTOM VIEW
MOUNTING PATTERN



ALUMINUM TYPE IV CONTROL CABINET 3R
59"x44"x26"
SCALE: NOT TO SCALE

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REVISIONS	
NAME	DATE

Rev. 11-1-06

ED-6

ILLINOIS DEPARTMENT OF TRANSPORTATION
US RTE 6 (159TH ST) AT US RTE 45 (LAGRANGE RD)

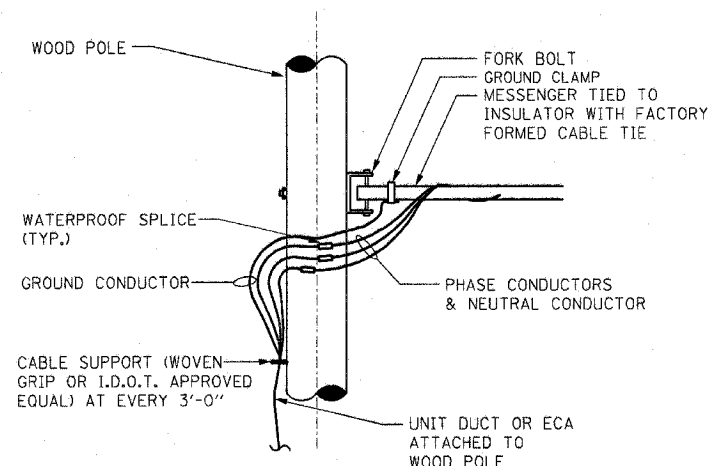
LIGHTING CONTROLLER
CABINET

SCALE: NONE
DATE: 7-07-06

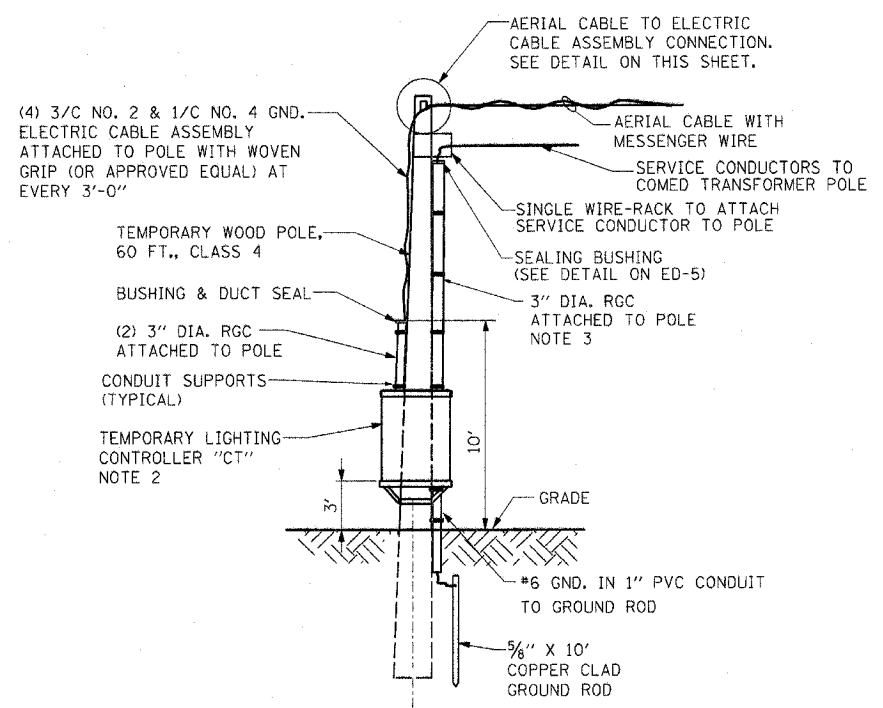
DRAWN BY: MB
CHECKED BY: KMY

McDonough Associates Inc.
Engineers / Architects

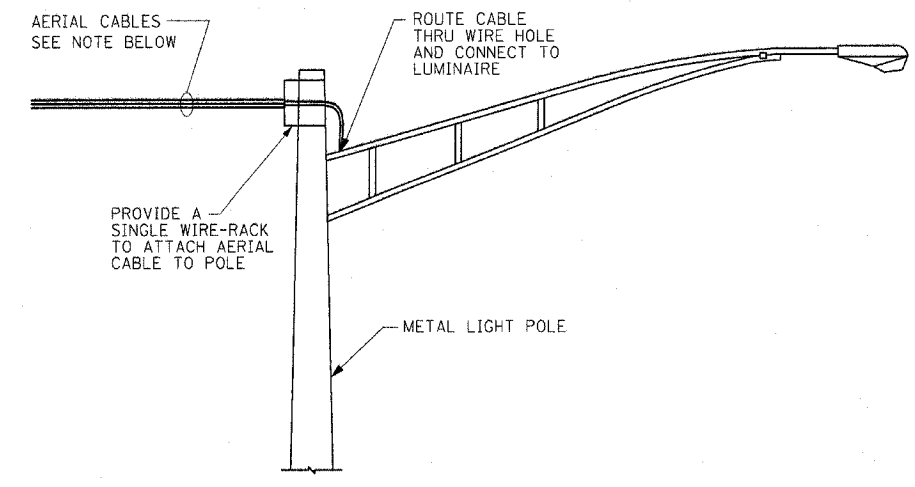
F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
351	537 R-1	COOK	245	178
STA.		TO STA.		
FED. ROAD DIST. NO.		ILLINOIS FED. AID PROJECT		
CONTRACT # 62880				



AERIAL CABLE TO ELECTRIC CABLE ASSEMBLY CONNECTION DETAIL
N.T.S.

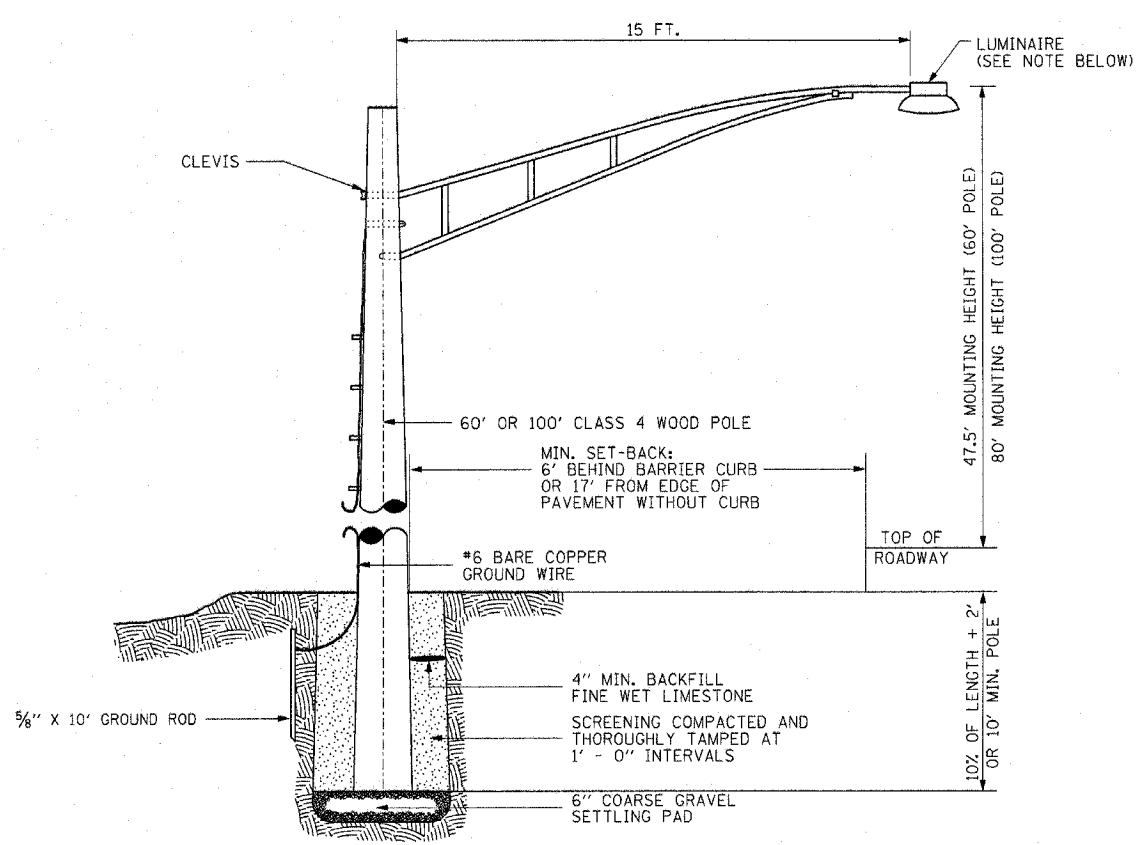


TEMPORARY LIGHTING CONTROLLER "CT" WIRING AND SERVICE INSTALLATION DETAIL
N.T.S.



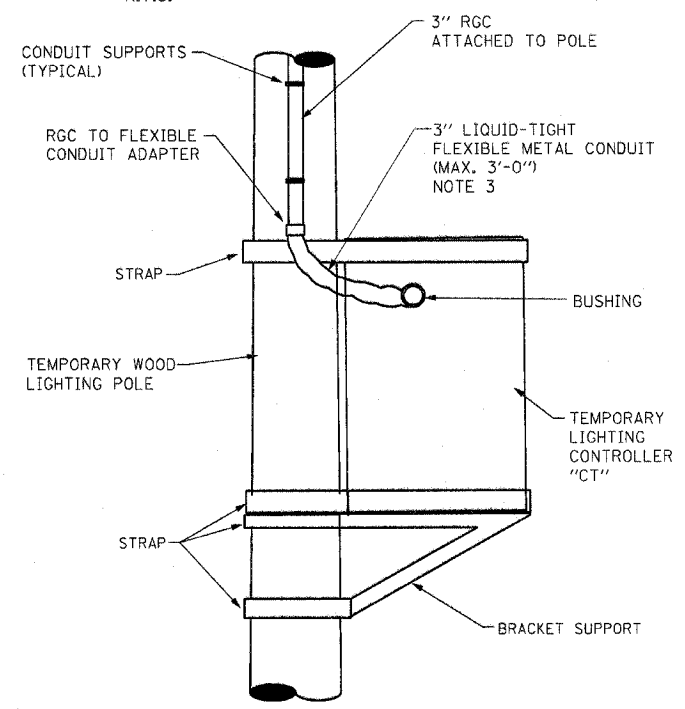
TEMPORARY POWER FEED TO EXISTING POLE DETAIL
N.T.S.

NOTE:
THE COST OF CONNECTING AERIAL CABLES TO EXISTING LIGHTING UNIT SHALL BE INCLUDED IN THE COST OF THE AERIAL CABLE PAY ITEM. NO SEPARATE PAYMENT WILL BE MADE.



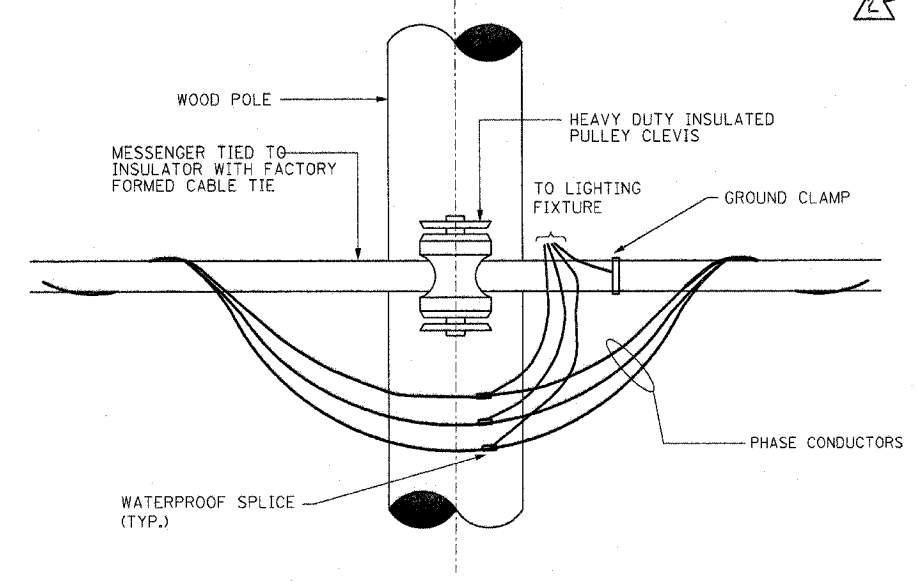
TEMPORARY LIGHT POLE INSTALLATION DETAIL
N.T.S.

NOTE:
ALL 100 FT TEMPORARY LUMINAIRE UNITS SHALL HAVE 750W, HORIZONTAL MOUNTED HIGH MAST LUMINAIRE. ALL 60 FT TEMPORARY LIGHTING UNITS SHALL HAVE 250W, HORIZONTAL MOUNTED, SODIUM VAPOR LUMINAIRE UNLESS NOTED OTHERWISE



TEMPORARY LIGHTING CONTROLLER "CT" INSTALLATION DETAIL
N.T.S.

- NOTES:**
- TEMPORARY WOOD POLE AND CONTROLLER MOUNTING HARDWARE AND RELATED APPURTENANCES SHALL BE INCLUDED IN TEMPORARY LIGHTING CONTROLLER PAY ITEM.
 - SEE DRAWING ED-6 FOR DETAILS AND ED-8 FOR CONTROLLER WIRING DIAGRAM.
 - THE COST OF ALL CONDUITS ATTACHED TO WOOD POLE AND 3/C NO.2 & 1/C NO.4 GND ELECTRIC CABLE ASSEMBLY TO THE POLE TOP SHALL BE INCLUDED IN THE COST OF TEMPORARY ELECTRIC SERVICE INSTALLATION PAY ITEM. NO SEPARATE PAYMENT WILL BE MADE.



TEMPORARY LIGHT POLE CABLE ATTACHMENT DETAIL
N.T.S.

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REVISIONS		DATE
NAME		

ED-7

ILLINOIS DEPARTMENT OF TRANSPORTATION
US RTE 6 (159TH ST) AT US RTE 45 (LAGRANGE RD)

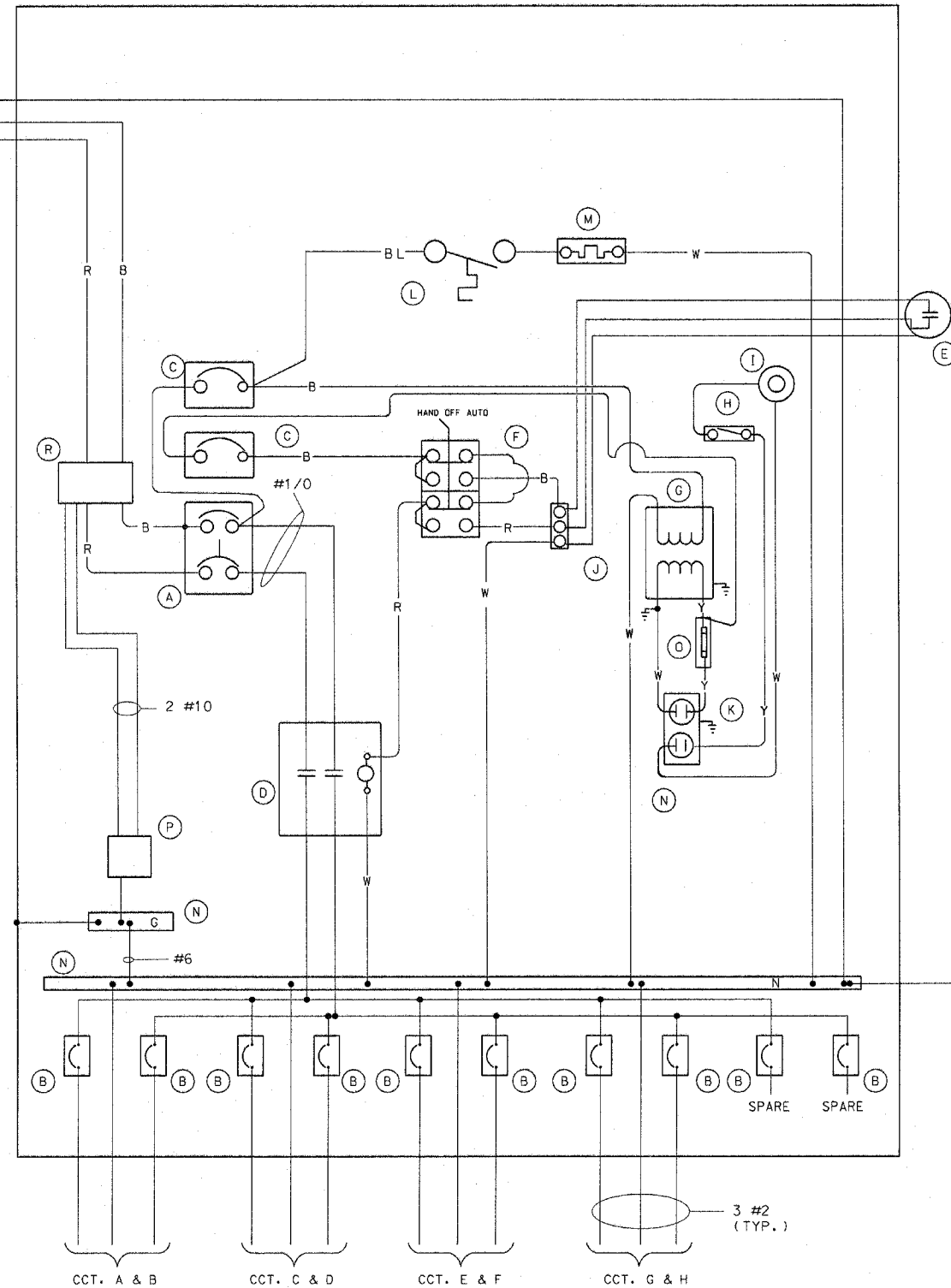
TEMPORARY LIGHTING DETAILS

SCALE: NONE DRAWN BY: MB
DATE: 7-07-06 CHECKED BY: KMY

McDonough Associates Inc.
Engineers / Architects

ELECTRICAL SERVICE FROM COMED
150A. 240/480V. 1 PH. 3W

AERIAL CABLE, 3-1/C NO. 2
ALUMINUM W/MW



BILL OF MATERIALS CONTROLLER "CT"		DESCRIPTION
ITEM	QTY	
A	1	MAIN CIRCUIT BREAKER, MOLDED CASE, THERMAL MAGNETIC, 150 AMP, 2POLE, 480V, NON-INTERCHANGEABLE TRIP, INTERRUPTING RATING 25,000 AMP AT 480 VOLT
B	10	1P-40A, 240V, BOLT-ON BRANCH CIRCUIT BREAKERS, CAT. NO. GHB1040, INTERRUPTING RATING 14,000 AMP AT 277 VOLT (2 SPARE)
C	2	CUTLER HAMMER EHD1015 1P 15 AMP, 240V, INTERRUPTING RATING 14,000 AMP AT 277 VOLT
D	1	CH A202K4BA 2P 200A, 600V, 120V COIL
E	1	FA105M NITELIGHTER PHOTOCELL (MOUNTED ON THE TOP OF CONTROL CABINET)
F	1	SQ D 9001KYK111 HOA SWITCH
G	1	JEFFERSON 21-0071-055 1KVA XFORMER
H	1	OMRON DOOR SWITCH A20GQ7BK
I	1	LEVITON 29816-C LIGHT FIXTURE
J	1	CHINCH 3 POINT TB
K	1	LEVITON 6599 15A GFCI RECP
L	1	WR THERMOSTAT # 2E552 0-50 DEG.
M	1	SS HEATER VULCAN # OS1408-250B 250 WATTS
N	2	COPPER GROUND AND NEUTRAL BUS, MIN. 1/4" X 1" X 12"
O	1	BUSSMAN KTK15 FUSE
P	1	BRACKET MOUNTED SURGE ARRESTER FOR 480/240V, 3W SERVICE
R	1	175A, 2-POLE, 600V POWER DISTRIBUTION BLOCK MARATHON #1402401

POWER WIRING RHH/RHW
CONTROL WIRING #12 MTW
NEUTRAL BUS COLOR CODED WHITE
GROUND BUS COLOR CODED GREEN
UL LISTED

BL = BLUE
W = WHITE
B = BLACK
R = RED
Y = YELLOW

#6 GND IN 1/2" PVC CONDUIT
TO 5/8" X 10" GROUND ROD

NOTES:

- FOR TEMPORARY LIGHTING CONTROLLER INSTALLATION DETAILS, SEE DRAWING ED-7.

2

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Rev. 11-1-06

ED-8

REVISIONS	NAME	DATE

ILLINOIS DEPARTMENT OF TRANSPORTATION
US RTE 6 (159TH ST) AT US RTE 45 (LAGRANGE RD)
TEMPORARY LIGHTING CONTROLLER WIRING DIAGRAM
SCALE: NONE
DATE: 7-07-06
DRAWN BY: MB
CHECKED BY: KMY
McDonough Associates Inc.
Engineers / Architects

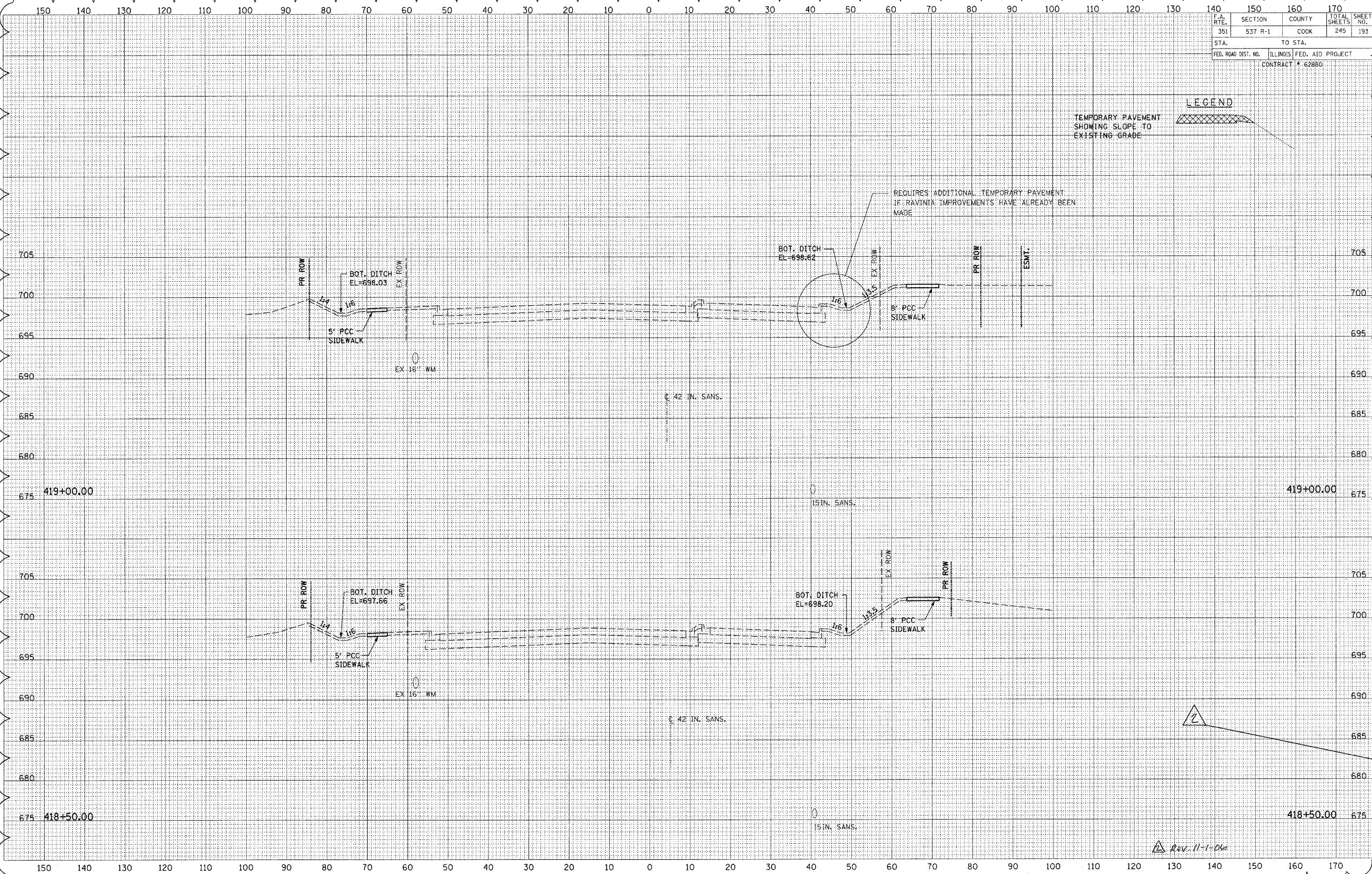
F.A. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
351	537 R-1	COOK	245	193
STA.		TO STA.		
FED. ROAD DIST. NO.		ILLINOIS FED. AID PROJECT		
CONTRACT # 62880				

LEGEND

TEMPORARY PAVEMENT
SHOWING SLOPE TO
EXISTING GRADE

BY	DATE

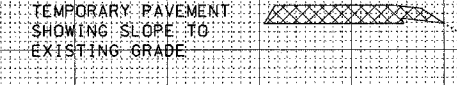
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NOTE BOOK	PLOTTED	
	TEMPLATE	
	AREAS CHECKED	



Rev. 11-1-06

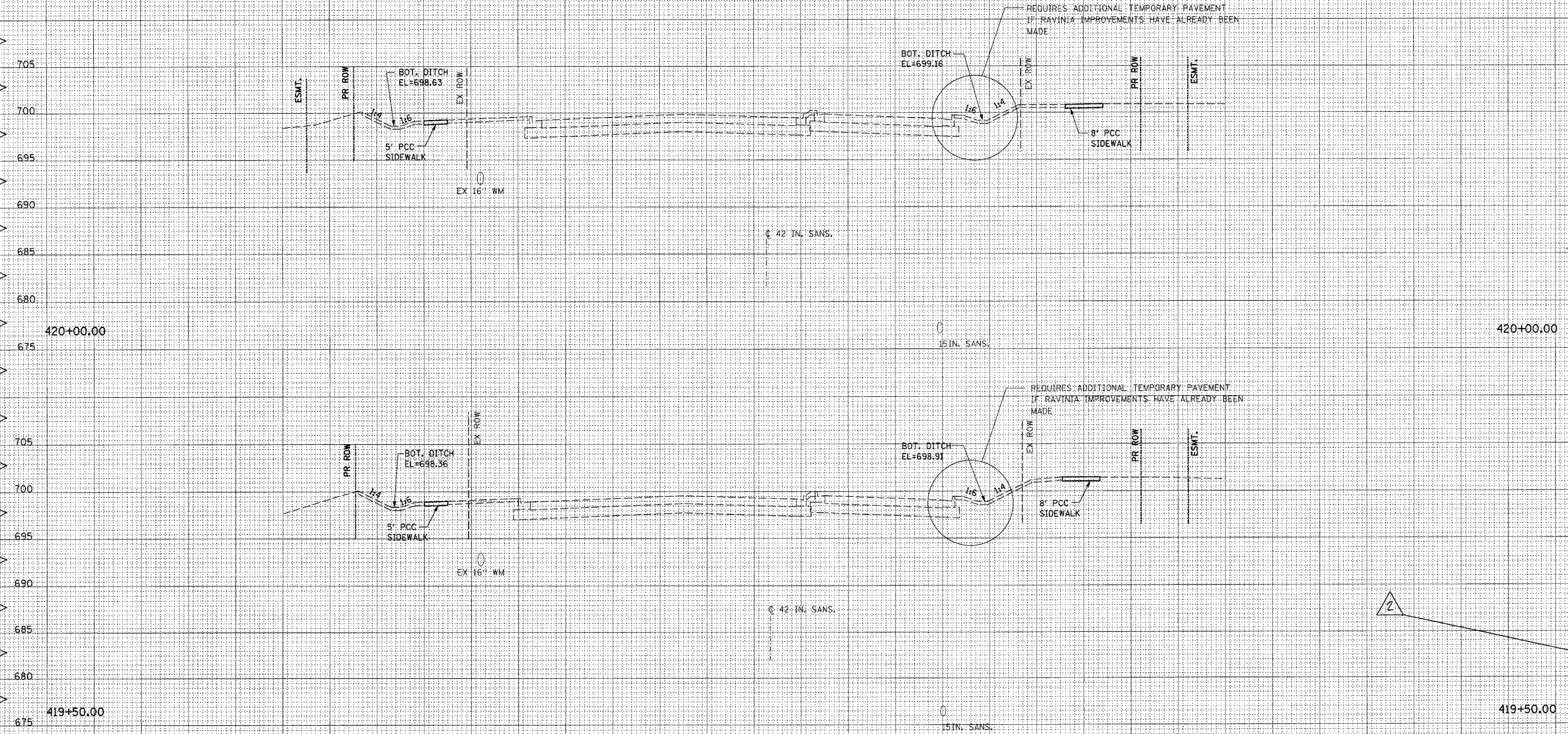
F.A. RITE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
351	537 R-1	COOK	245	194
STA.		TO STA.		
FED. ROAD DIST. NO.		ILLINOIS	FED. AID PROJECT	
CONTRACT # 62880				

LEGEND



DATE
BY
FINAL SURVEY
SURVEY PLOTTED
TEMPLATE
NOTE BOOK
AREAS CHECKED

DATE
BY
ORIGINAL SURVEY
SURVEY PLOTTED
TEMPLATE
NOTE BOOK
AREAS CHECKED



REQUIRES ADDITIONAL TEMPORARY PAVEMENT IF RAVINIA IMPROVEMENTS HAVE ALREADY BEEN MADE

REQUIRES ADDITIONAL TEMPORARY PAVEMENT IF RAVINIA IMPROVEMENTS HAVE ALREADY BEEN MADE

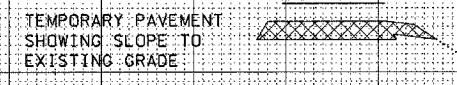
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Rev. 11-1-04

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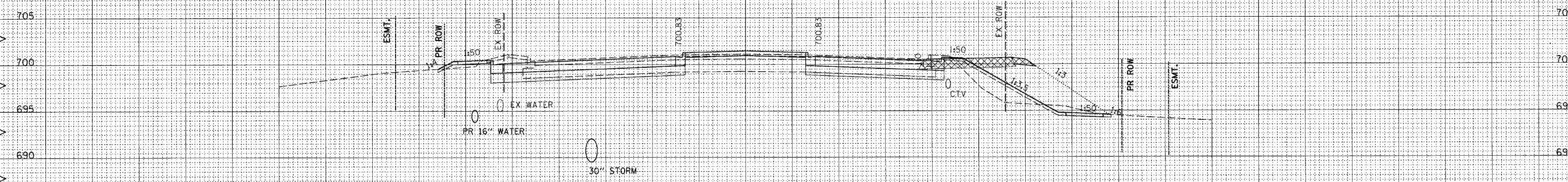
F.A. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
351	537 R-1	COOK	245	196
STA.		TO STA.		
FED. ROAD DIST. NO.		ILLINOIS	FED. AID PROJECT	
CONTRACT # 62880				

LEGEND

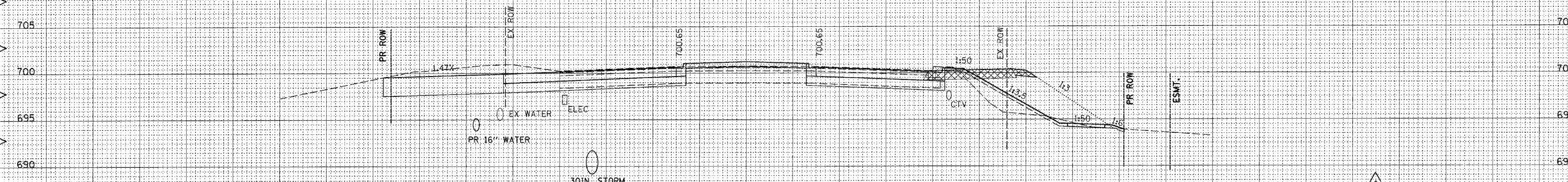


DATE
BY
FINAL SURVEY
PLOTTED
NOTE BOOK
TEMPLATE
AREAS CHECKED
NO.

DATE
BY
ORIGINAL SURVEY
PLOTTED
NOTE BOOK
TEMPLATE
AREAS CHECKED
NO.



EARTH EXCAVATION: 224 SQ. FT
 TOPSOIL EXCAVATION: 1 SQ. FT
 EMBANKMENT: 50 SQ. FT



EARTH EXCAVATION: 289 SQ. FT
 TOPSOIL EXCAVATION: 0 SQ. FT
 EMBANKMENT: 52 SQ. FT

Rev. 11-1-04

150 140 130 120 110 100 90 80 70 60 50 40 30 20 10 0 10 20 30 40 50 60 70 80 90 100 110 120 130 140 150 160 170

150 140 130 120 110 100 90 80 70 60 50 40 30 20 10 0 10 20 30 40 50 60 70 80 90 100 110 120 130 140 150 160 170

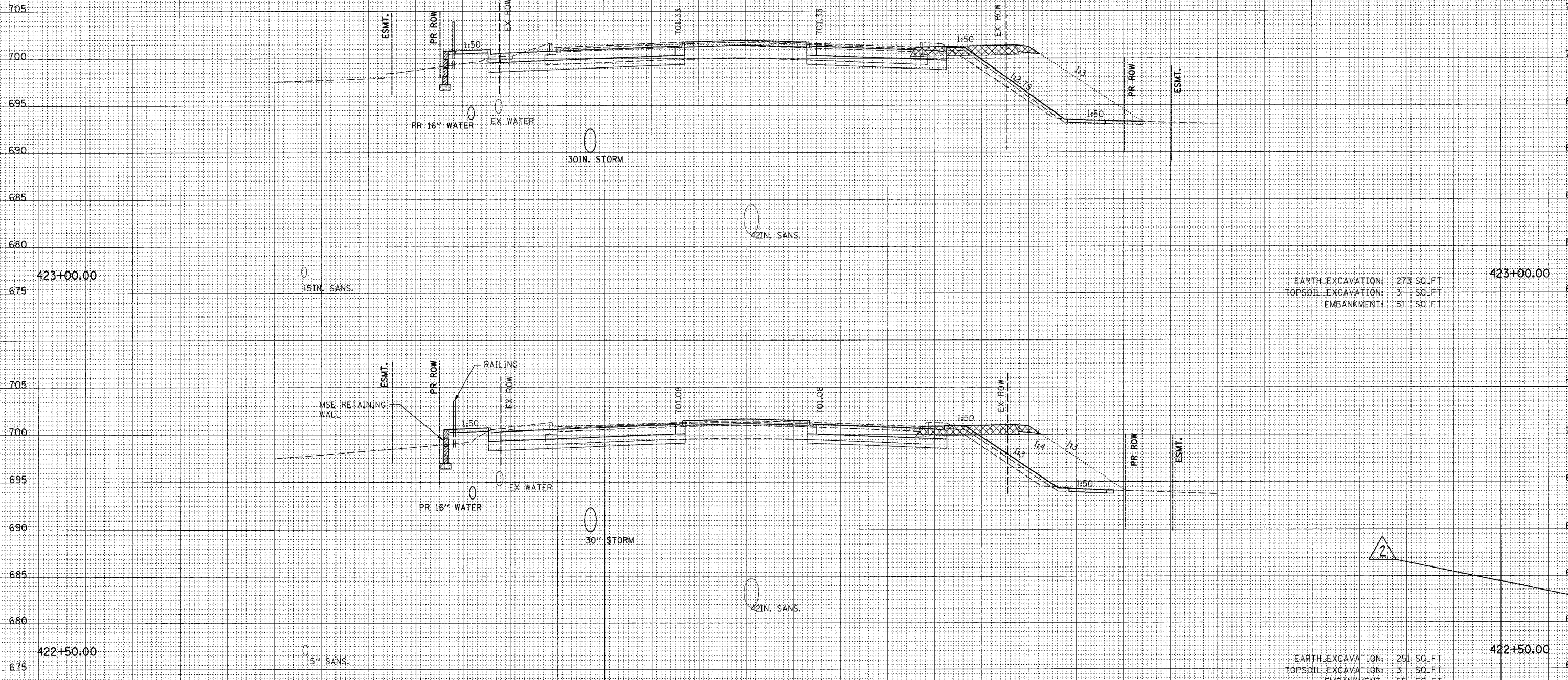
F.A. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
351	537 R-1	COOK	245	197
STA.		TO STA.		
FED. ROAD DIST. NO.		ILLINOIS	FED. AID PROJECT	
CONTRACT # 62880				

DATE	
BY	
FINAL SURVEY	
SWITCHED PLOTTED	
TEMPLATE	
NOTE BOOK	
AREAS CHECKED	
NO.	

DATE	
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ORIGINAL SURVEY	
SWITCHED PLOTTED	
TEMPLATE	
NOTE BOOK	
AREAS CHECKED	
NO.	

TEMPORARY PAVEMENT SHOWING SLOPE TO EXISTING GRADE

LEGEND



EARTH EXCAVATION: 273 SQ. FT.
TOPSOIL EXCAVATION: 3 SQ. FT.
EMBANKMENT: 51 SQ. FT.

EARTH EXCAVATION: 251 SQ. FT.
TOPSOIL EXCAVATION: 3 SQ. FT.
EMBANKMENT: 55 SQ. FT.

Rev. 11-1-06

150 140 130 120 110 100 90 80 70 60 50 40 30 20 10 0 10 20 30 40 50 60 70 80 90 100 110 120 130 140 150 160 170

150 140 130 120 110 100 90 80 70 60 50 40 30 20 10 0 10 20 30 40 50 60 70 80 90 100 110 120 130 140 150 160 170

F.A. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
351	537 R-1	COOK	245	198
STA.		TO STA.		
FED. ROAD DIST. NO.		ILLINOIS	FED. AID PROJECT	
CONTRACT # 62880				

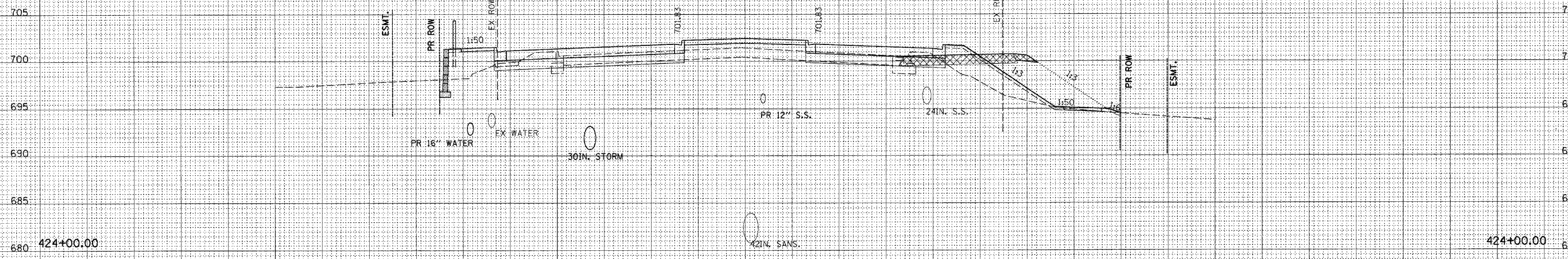
LEGEND

TEMPORARY PAVEMENT SHOWING SLOPE TO EXISTING GRADE

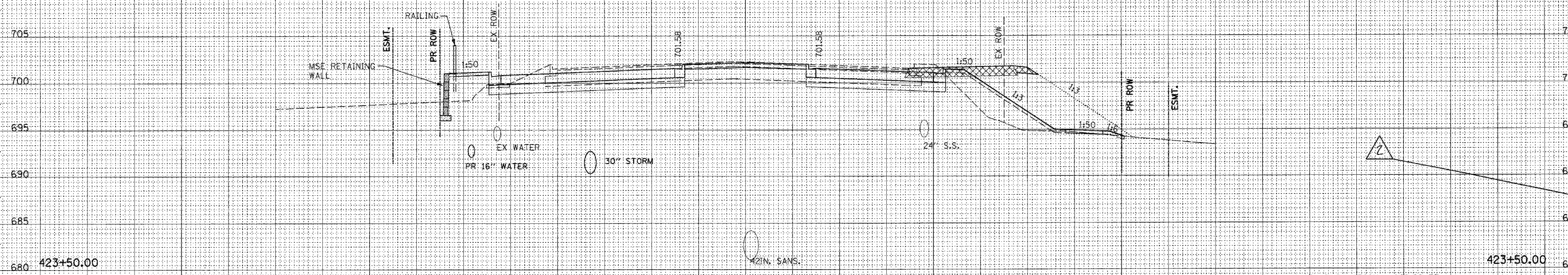


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 NOTE BOOK _____
 AREAS CHECKED _____

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



EARTH EXCAVATION: 158 SQ. FT.
 TOPSOIL EXCAVATION: 3 SQ. FT.
 EMBANKMENT: 73 SQ. FT.



EARTH EXCAVATION: 262 SQ. FT.
 TOPSOIL EXCAVATION: 3 SQ. FT.
 EMBANKMENT: 68 SQ. FT.

Rev. 11-1-06

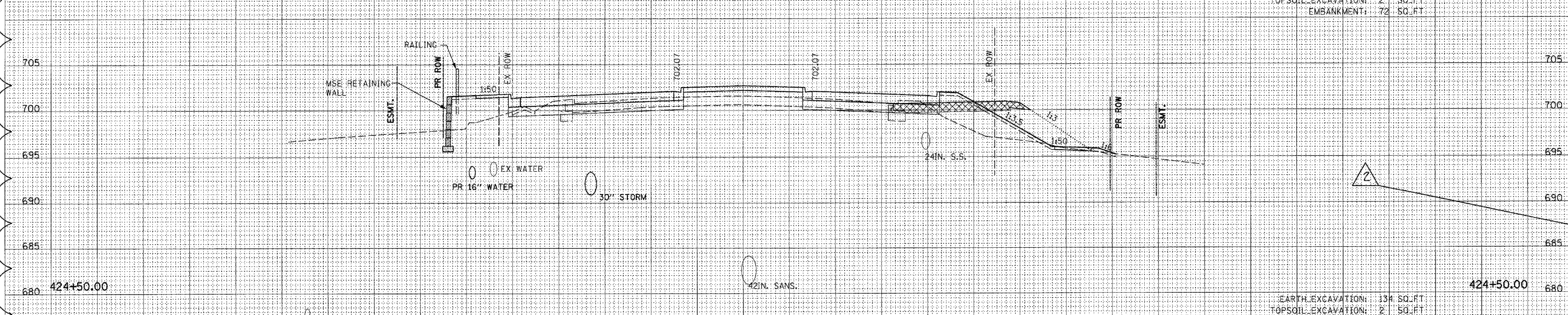
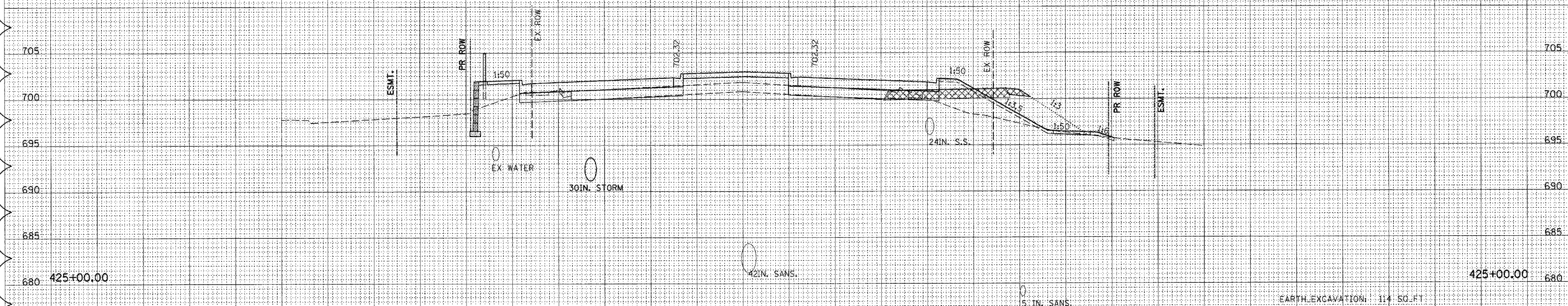
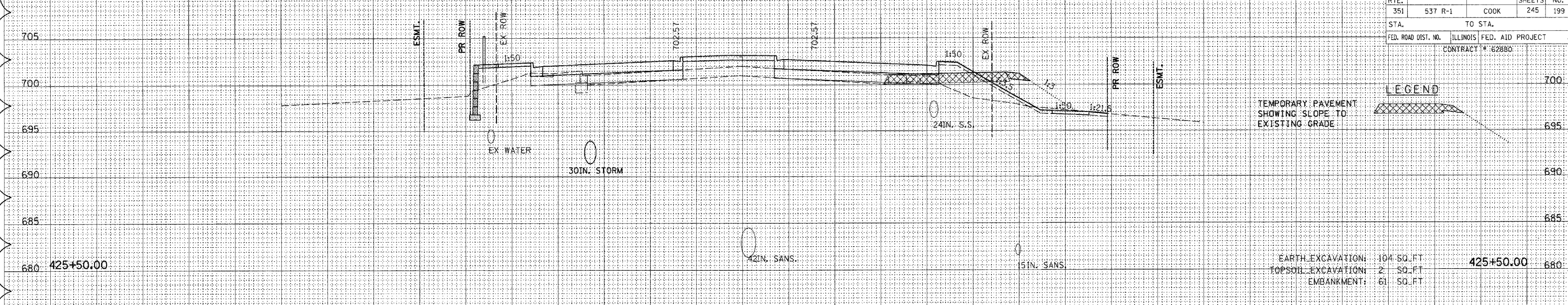
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150 140 130 120 110 100 90 80 70 60 50 40 30 20 10 0 10 20 30 40 50 60 70 80 90 100 110 120 130 140 150 160 170

F.A. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
351	537 R-1	COOK	245	199
STA.		TO STA.		
FED. ROAD DIST. NO.		ILLINOIS FED. AID PROJECT		
CONTRACT # 62880				

DATE _____
 BY _____
 SURVEYED _____
 PLOTTED _____
 TEMPLATE _____
 NOTE BOOK _____
 AREAS CHECKED _____

DATE _____
 BY _____
 SURVEYED _____
 PLOTTED _____
 TEMPLATE _____
 NOTE BOOK _____
 AREAS CHECKED _____



150 140 130 120 110 100 90 80 70 60 50 40 30 20 10 0 10 20 30 40 50 60 70 80 90 100 110 120 130 140 150 160 170

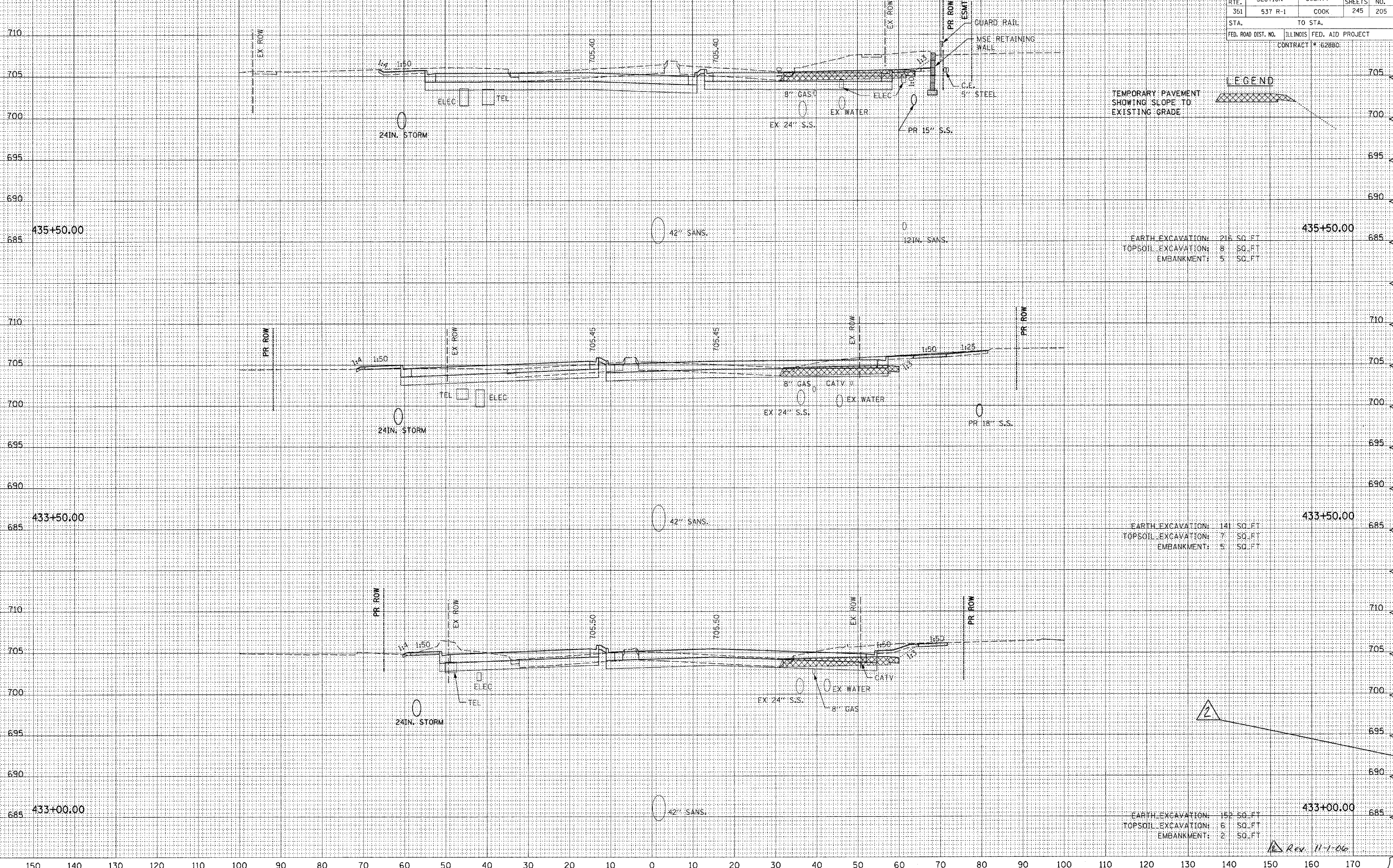
Rev. 11-1-06

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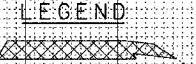
DATE	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
	537 R-1	COOK	245	205
STA.	TO STA.		FED. ROAD DIST. NO.	
	ILLINOIS		FED. AID PROJECT	
CONTRACT # 62880				

DATE _____
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 ORIGINAL SURVEY _____
 REVISIONS _____
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 BY _____
 ORIGINAL SURVEY _____
 REVISIONS _____
 PLOTTED _____
 TEMPLATE _____
 NOTE BOOK _____
 AREAS CHECKED _____



TEMPORARY PAVEMENT
 SHOWING SCOPE TO
 EXISTING GRADE



EARTH EXCAVATION: 216 SQ. FT.
 TOPSOIL EXCAVATION: 8 SQ. FT.
 EMBANKMENT: 5 SQ. FT.

EARTH EXCAVATION: 141 SQ. FT.
 TOPSOIL EXCAVATION: 7 SQ. FT.
 EMBANKMENT: 5 SQ. FT.

EARTH EXCAVATION: 152 SQ. FT.
 TOPSOIL EXCAVATION: 6 SQ. FT.
 EMBANKMENT: 2 SQ. FT.

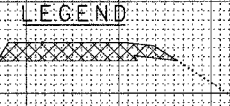
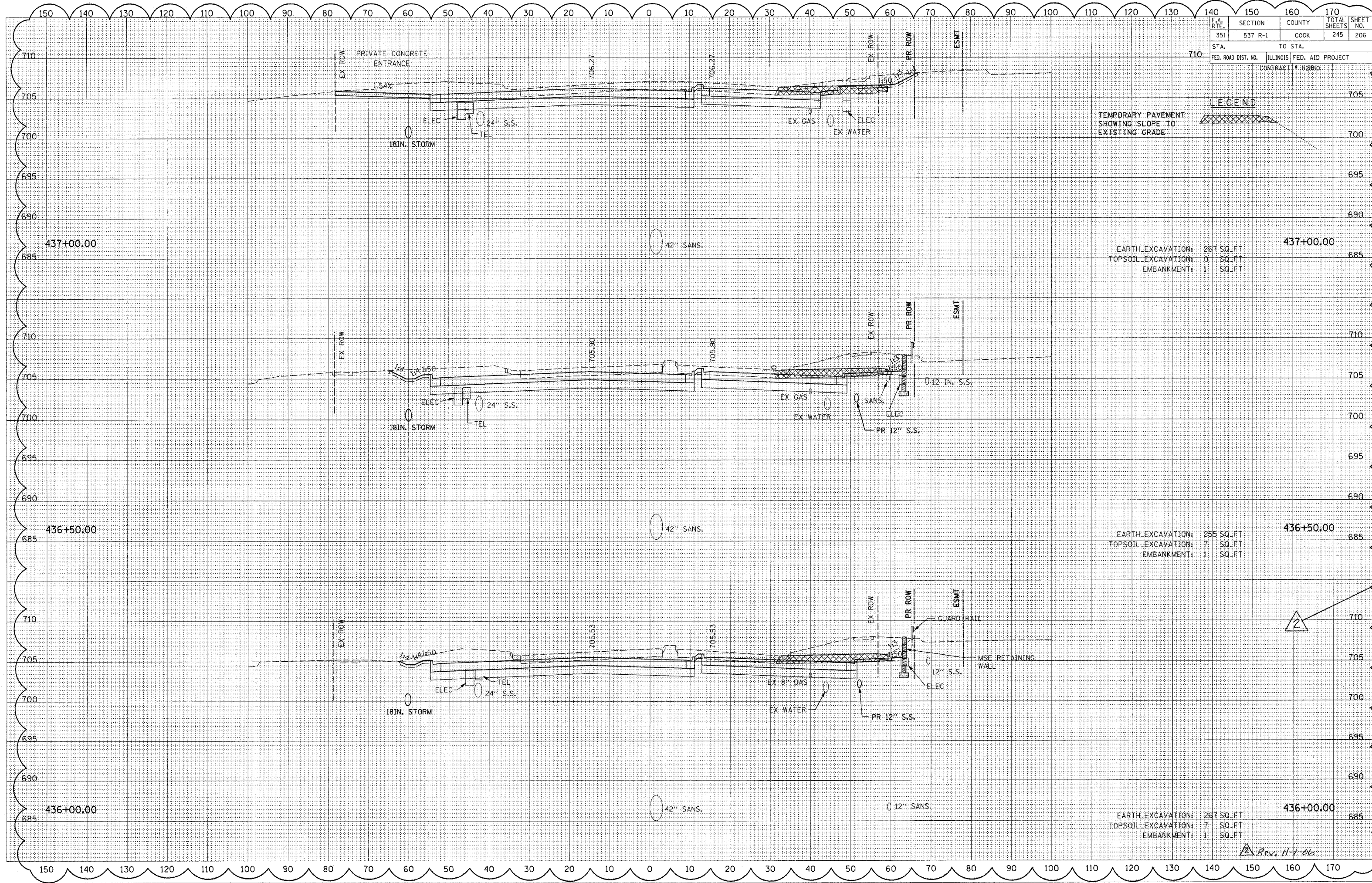
Rev. 11-1-06

150 140 130 120 110 100 90 80 70 60 50 40 30 20 10 0 10 20 30 40 50 60 70 80 90 100 110 120 130 140 150 160 170

DATE: _____
 BY: _____
 SURVEYED _____
 PLOTTED _____
 TEMPLATE _____
 NOTE BOOK _____
 AREAS CHECKED _____
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DATE: _____
 BY: _____
 SURVEYED _____
 PLOTTED _____
 TEMPLATE _____
 NOTE BOOK _____
 AREAS CHECKED _____
 NO. _____

F.A. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
351	537 R-1	COOK	245	206
STA.		TO STA.		
FED. ROAD DIST. NO.		ILLINOIS FED. AID PROJECT		
CONTRACT # 82880				



EARTH EXCAVATION: 267 SQ. FT.
 TOPSOIL EXCAVATION: 0 SQ. FT.
 EMBANKMENT: 1 SQ. FT.

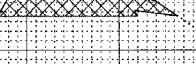
EARTH EXCAVATION: 255 SQ. FT.
 TOPSOIL EXCAVATION: 7 SQ. FT.
 EMBANKMENT: 1 SQ. FT.

EARTH EXCAVATION: 267 SQ. FT.
 TOPSOIL EXCAVATION: 7 SQ. FT.
 EMBANKMENT: 1 SQ. FT.

Rev. 11-1-06

F.A. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
351	537 R-1	COOK	245	207
STA. 710		TO STA.		
FED. ROAD DIST. NO.		ILLINOIS FED. AID PROJECT		
		CONTRACT # 62880		

LEGEND



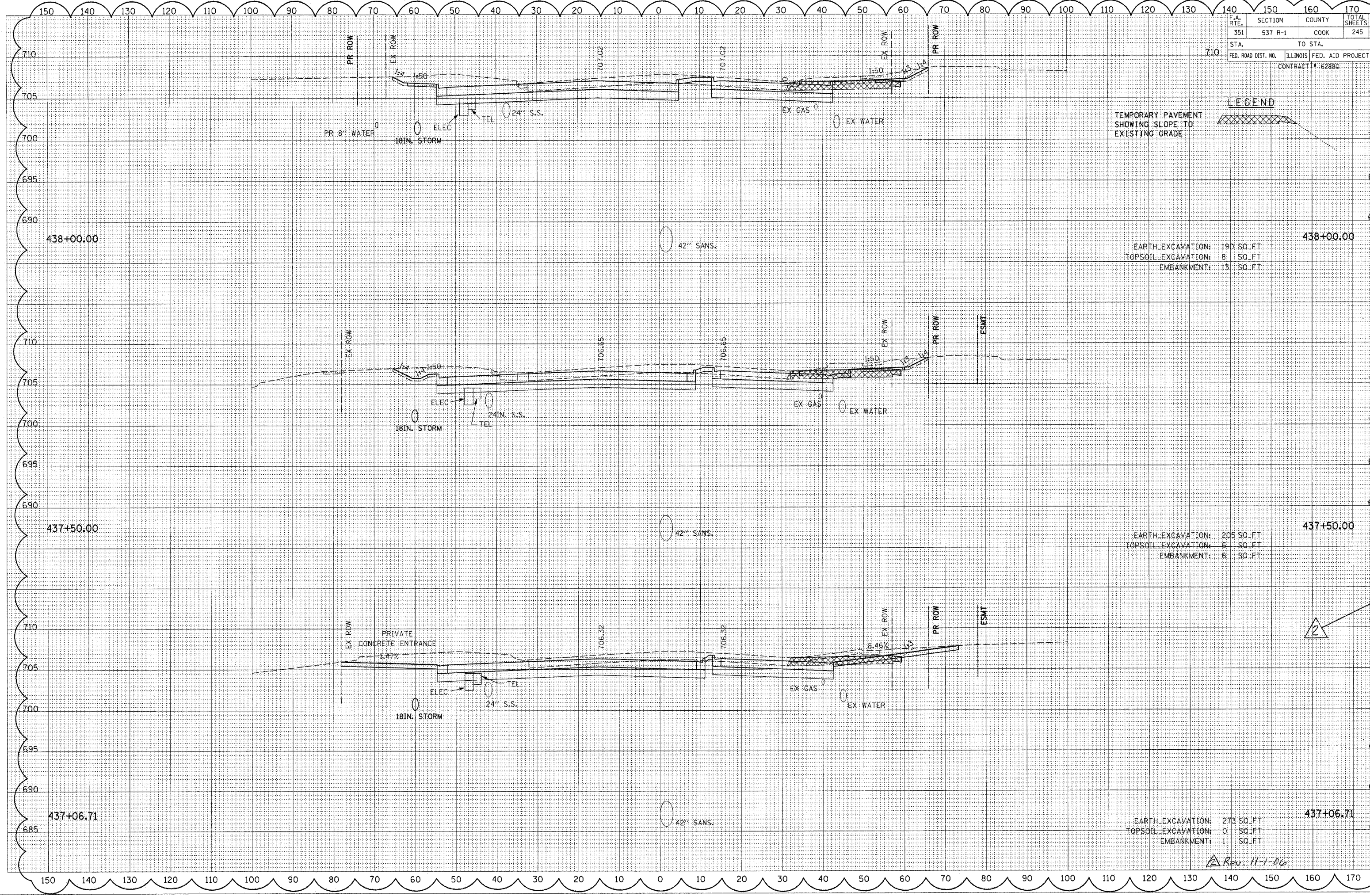
TEMPORARY PAVEMENT
SHOWING SLOPE TO
EXISTING GRADE

EARTH EXCAVATION: 190 SQ. FT.
TOPSOIL EXCAVATION: 8 SQ. FT.
EMBANKMENT: 13 SQ. FT.

EARTH EXCAVATION: 205 SQ. FT.
TOPSOIL EXCAVATION: 6 SQ. FT.
EMBANKMENT: 6 SQ. FT.

EARTH EXCAVATION: 273 SQ. FT.
TOPSOIL EXCAVATION: 0 SQ. FT.
EMBANKMENT: 1 SQ. FT.

Rev. 11-1-06



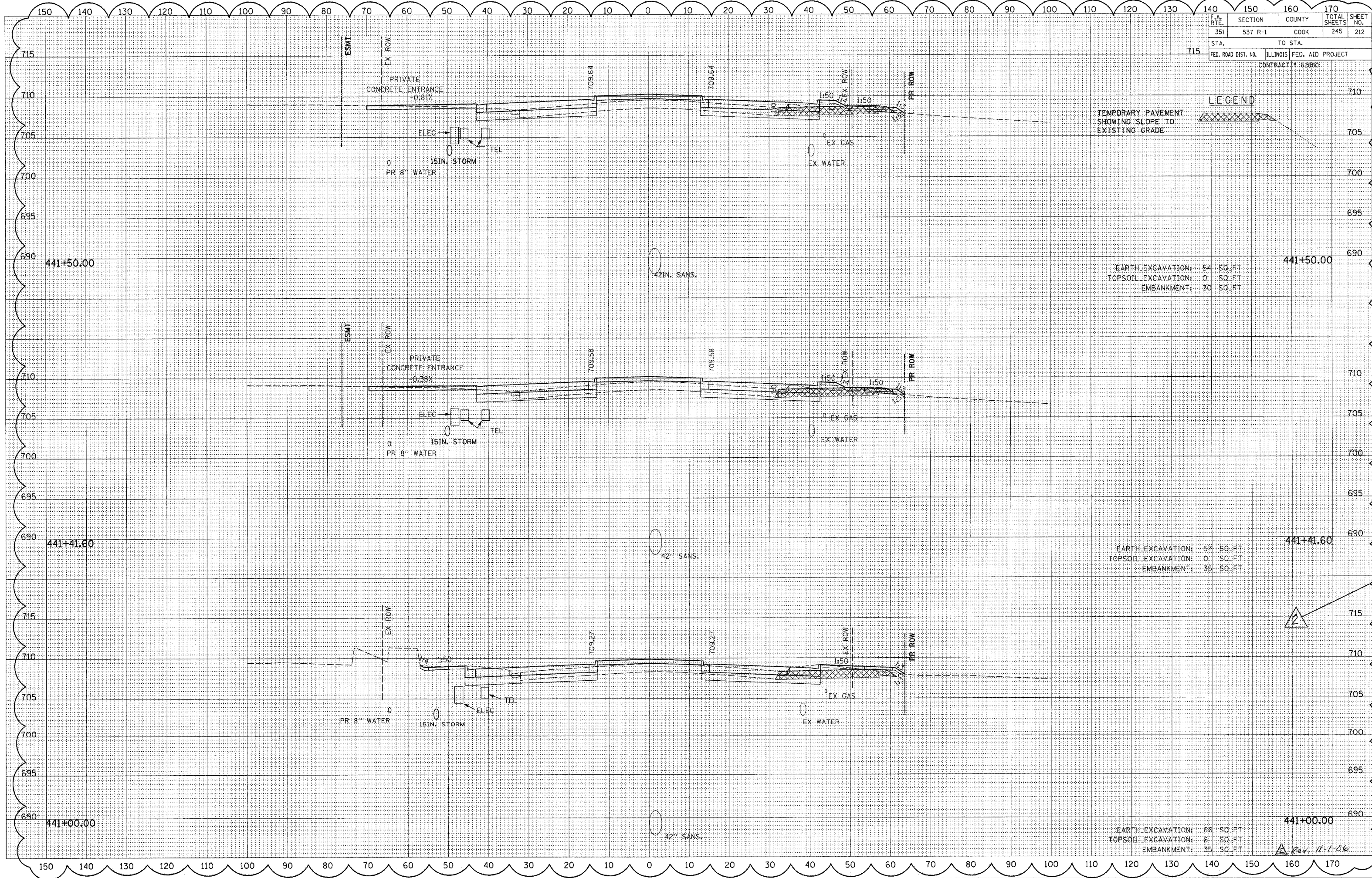
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DATE	
BY	
FINAL SURVEY	
PLOTTED	
NOTE BOOK	
AREAS CHECKED	

DATE	
BY	
ORIGINAL SURVEY	
PLOTTED	
NOTE BOOK	
AREAS CHECKED	

F.A. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
351	537 R-1	COOK	245	212
STA. 715		TO STA.		
FED. ROAD DIST. NO.		ILLINOIS	FED. AID PROJECT	
CONTRACT # 62880				



EARTH EXCAVATION: 54 SQ. FT.
 TOPSOIL EXCAVATION: 0 SQ. FT.
 EMBANKMENT: 30 SQ. FT.

EARTH EXCAVATION: 57 SQ. FT.
 TOPSOIL EXCAVATION: 0 SQ. FT.
 EMBANKMENT: 35 SQ. FT.

EARTH EXCAVATION: 66 SQ. FT.
 TOPSOIL EXCAVATION: 6 SQ. FT.
 EMBANKMENT: 35 SQ. FT.

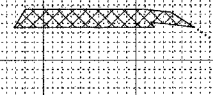
Rev. 11-1-06

150 140 130 120 110 100 90 80 70 60 50 40 30 20 10 0 10 20 30 40 50 60 70 80 90 100 110 120 130 140 150 160 170

STATE	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
351	537 R-1	COOK	245	213
STA. _____		TO STA. _____		
FED. ROAD DIST. NO. _____		ILLINOIS FED. AID PROJECT		
CONTRACT # 62880				

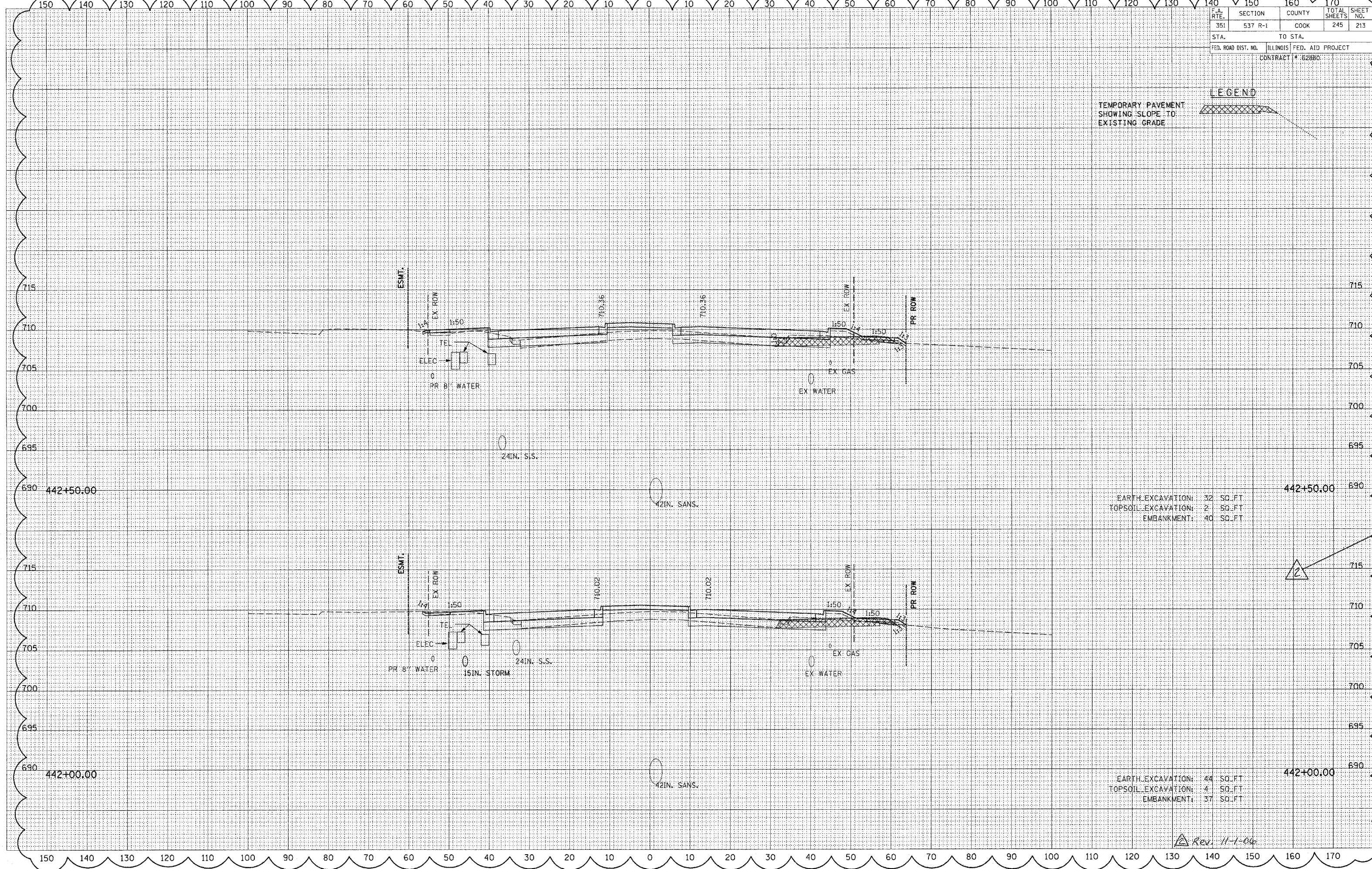
LEGEND

TEMPORARY PAVEMENT SHOWING SLOPE TO EXISTING GRADE



DATE	_____
BY	_____
REVIEWED	_____
DATE	_____
NO. _____	AREAS CHECKED _____

DATE	_____
BY	_____
REVIEWED	_____
DATE	_____
NO. _____	AREAS CHECKED _____



EARTH EXCAVATION: 32 SQ. FT.
 TOPSOIL EXCAVATION: 2 SQ. FT.
 EMBANKMENT: 40 SQ. FT.

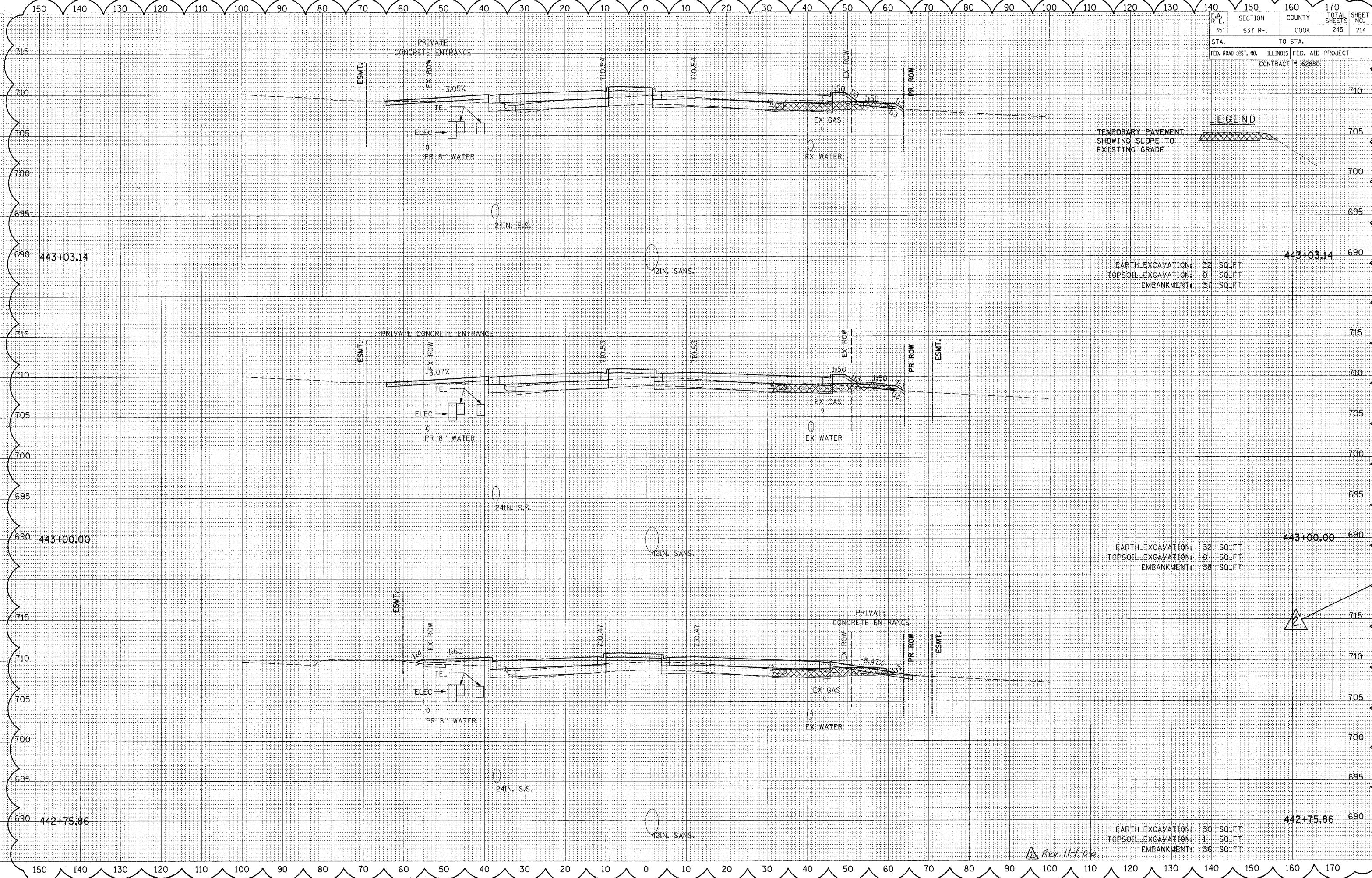
EARTH EXCAVATION: 44 SQ. FT.
 TOPSOIL EXCAVATION: 4 SQ. FT.
 EMBANKMENT: 37 SQ. FT.

Rev. 11-1-06

DATE _____
 BY _____
 SUPERVISOR _____
 SURVEY _____
 PLOTTED _____
 ORIGINAL SURVEY _____
 NOTE BOOK _____
 AREAS CHECKED _____

DATE _____
 BY _____
 SUPERVISOR _____
 SURVEY _____
 PLOTTED _____
 ORIGINAL SURVEY _____
 NOTE BOOK _____
 AREAS CHECKED _____

F.A. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
351	537 R-1	COOK	245	214
STA.		TO STA.		
FED. ROAD DIST. NO.		ILLINOIS FED. AID PROJECT		
		CONTRACT # 62880		



LEGEND

TEMPORARY PAVEMENT
 SHOWING SLOPE TO
 EXISTING GRADE

EARTH EXCAVATION: 32 SQ. FT.
 TOPSOIL EXCAVATION: 0 SQ. FT.
 EMBANKMENT: 37 SQ. FT.

EARTH EXCAVATION: 32 SQ. FT.
 TOPSOIL EXCAVATION: 0 SQ. FT.
 EMBANKMENT: 38 SQ. FT.

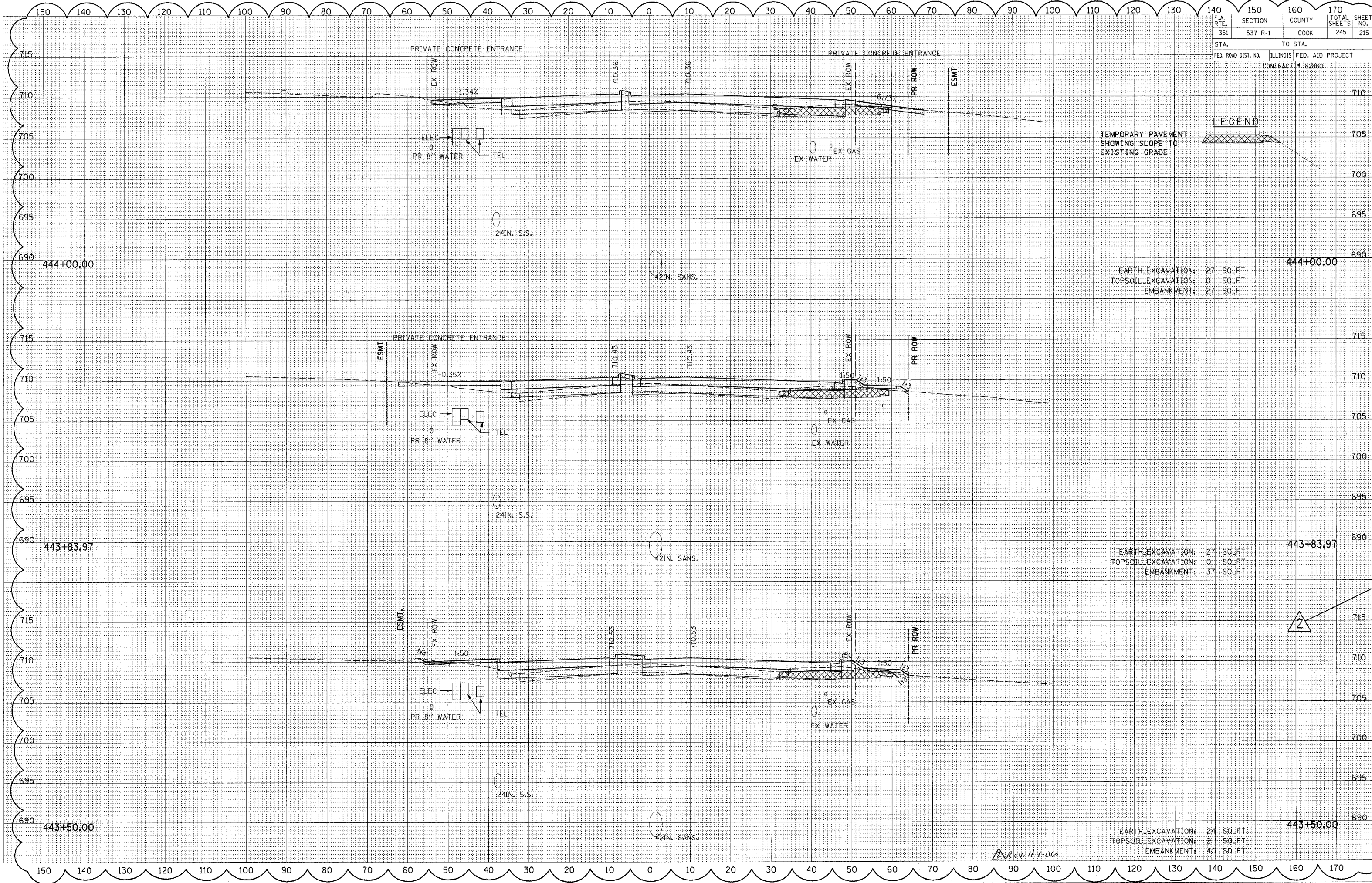
EARTH EXCAVATION: 30 SQ. FT.
 TOPSOIL EXCAVATION: 1 SQ. FT.
 EMBANKMENT: 36 SQ. FT.

Rev. 11-1-06

DATE _____
 BY _____
 SURVEYED _____
 PLOTTED _____
 ORIGINAL SURVEY _____
 NOTE BOOK _____
 NO. _____

DATE _____
 BY _____
 SURVEYED _____
 PLOTTED _____
 ORIGINAL SURVEY _____
 NOTE BOOK _____
 NO. _____

F.A. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
351	537 R-1	COOK	245	215
STA. _____ TO STA. _____		ILLINOIS FED. AID PROJECT		
CONTRACT # 62880				



LEGEND
 TEMPORARY PAVEMENT SHOWING SLOPE TO EXISTING GRADE

EARTH EXCAVATION: 27 SQ. FT.
 TOPSOIL EXCAVATION: 0 SQ. FT.
 EMBANKMENT: 27 SQ. FT.

EARTH EXCAVATION: 27 SQ. FT.
 TOPSOIL EXCAVATION: 0 SQ. FT.
 EMBANKMENT: 37 SQ. FT.

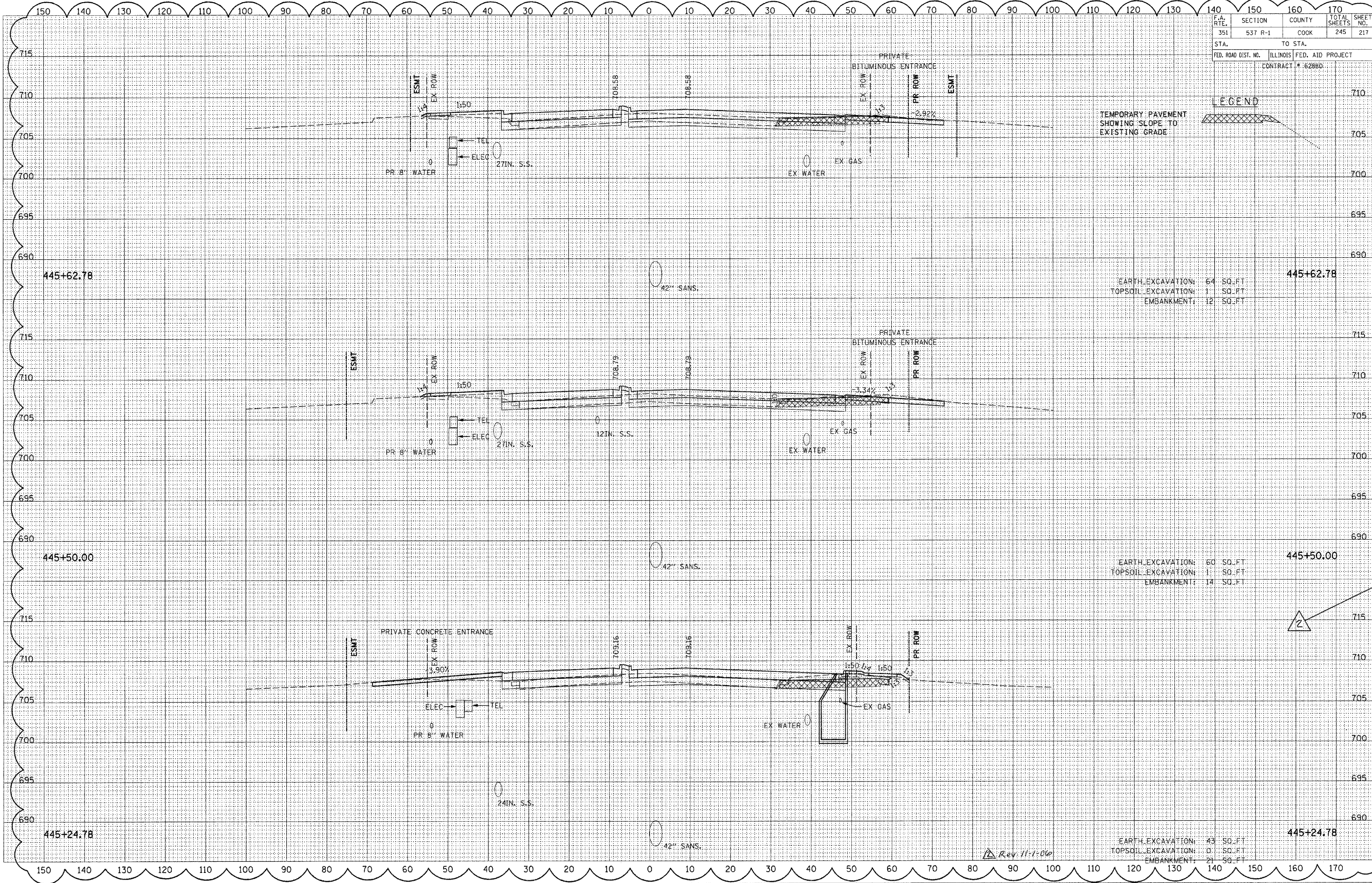
EARTH EXCAVATION: 24 SQ. FT.
 TOPSOIL EXCAVATION: 2 SQ. FT.
 EMBANKMENT: 40 SQ. FT.

Rev. 11-1-00

F.A. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
351	537 R-1	COOK	245	217
STA. TO STA.		ILLINOIS FED. AID PROJECT		
CONTRACT # 62880				

DATE	BY

DATE	BY



TEMPORARY PAVEMENT SHOWING SLOPE TO EXISTING GRADE

LEGEND

EARTH EXCAVATION: 64 SQ. FT.
TOPSOIL EXCAVATION: 1 SQ. FT.
EMBANKMENT: 12 SQ. FT.

EARTH EXCAVATION: 60 SQ. FT.
TOPSOIL EXCAVATION: 1 SQ. FT.
EMBANKMENT: 14 SQ. FT.

EARTH EXCAVATION: 43 SQ. FT.
TOPSOIL EXCAVATION: 0 SQ. FT.
EMBANKMENT: 21 SQ. FT.

Rev. 11-1-06

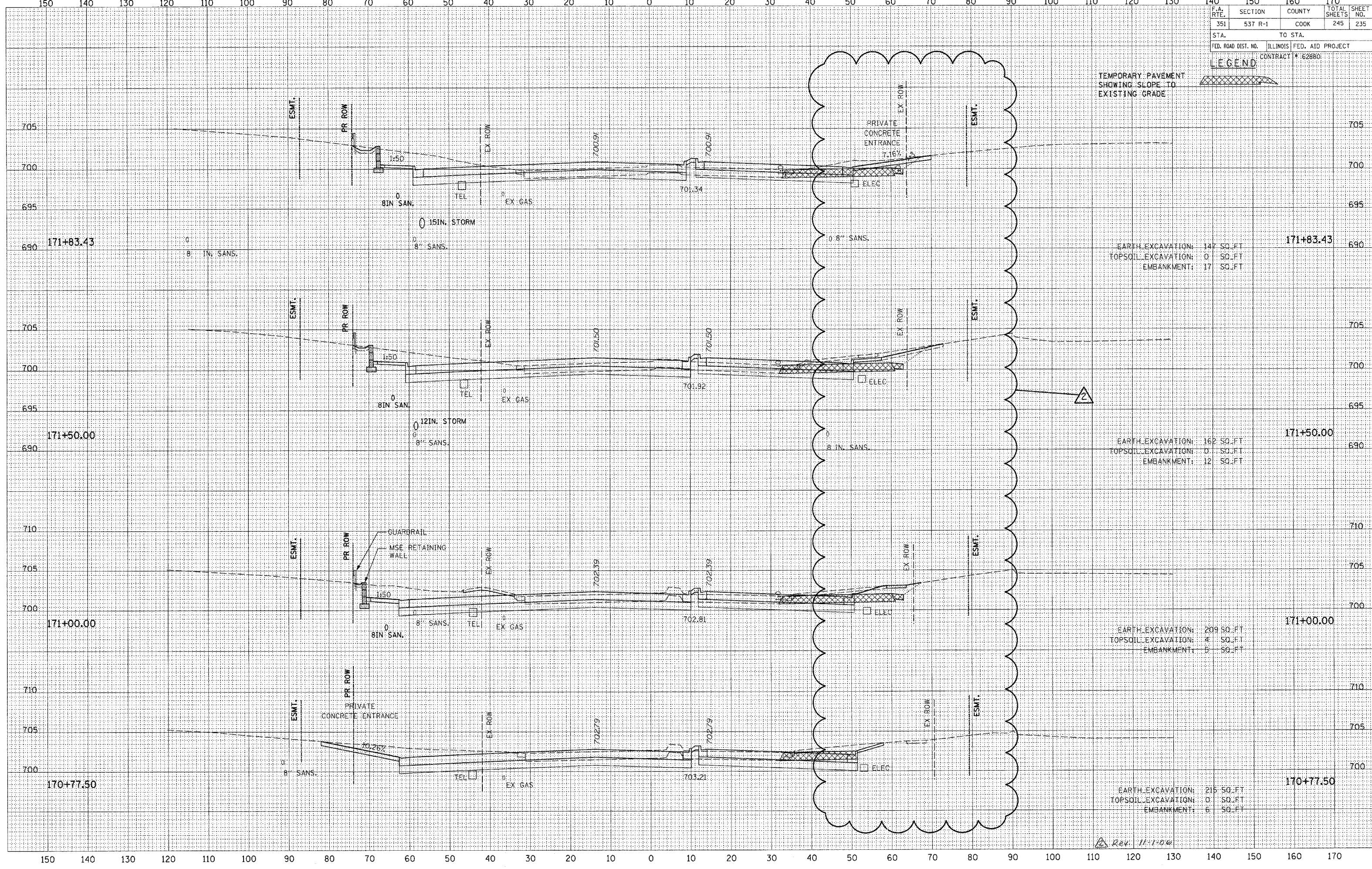
F.A. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
351	537 R-1	COOK	245	235
STA.		TO STA.		
FED. ROAD DIST. NO.		ILLINOIS	FED. AID PROJECT	
		CONTRACT # 62880		

LEGEND

TEMPORARY PAVEMENT SHOWING SLOPE TO EXISTING GRADE

DATE
BY
SURVEYED
TEMPLATE
NOTE BOOK
AREAS CHECKED

DATE
BY
ORIGINAL SURVEY
NOTE BOOK
AREAS CHECKED



171+83.43
EARTH EXCAVATION: 147 SQ. FT
TOPSOIL EXCAVATION: 0 SQ. FT
EMBANKMENT: 17 SQ. FT

171+50.00
EARTH EXCAVATION: 162 SQ. FT
TOPSOIL EXCAVATION: 0 SQ. FT
EMBANKMENT: 12 SQ. FT

171+00.00
EARTH EXCAVATION: 209 SQ. FT
TOPSOIL EXCAVATION: 4 SQ. FT
EMBANKMENT: 5 SQ. FT

170+77.50
EARTH EXCAVATION: 215 SQ. FT
TOPSOIL EXCAVATION: 0 SQ. FT
EMBANKMENT: 6 SQ. FT

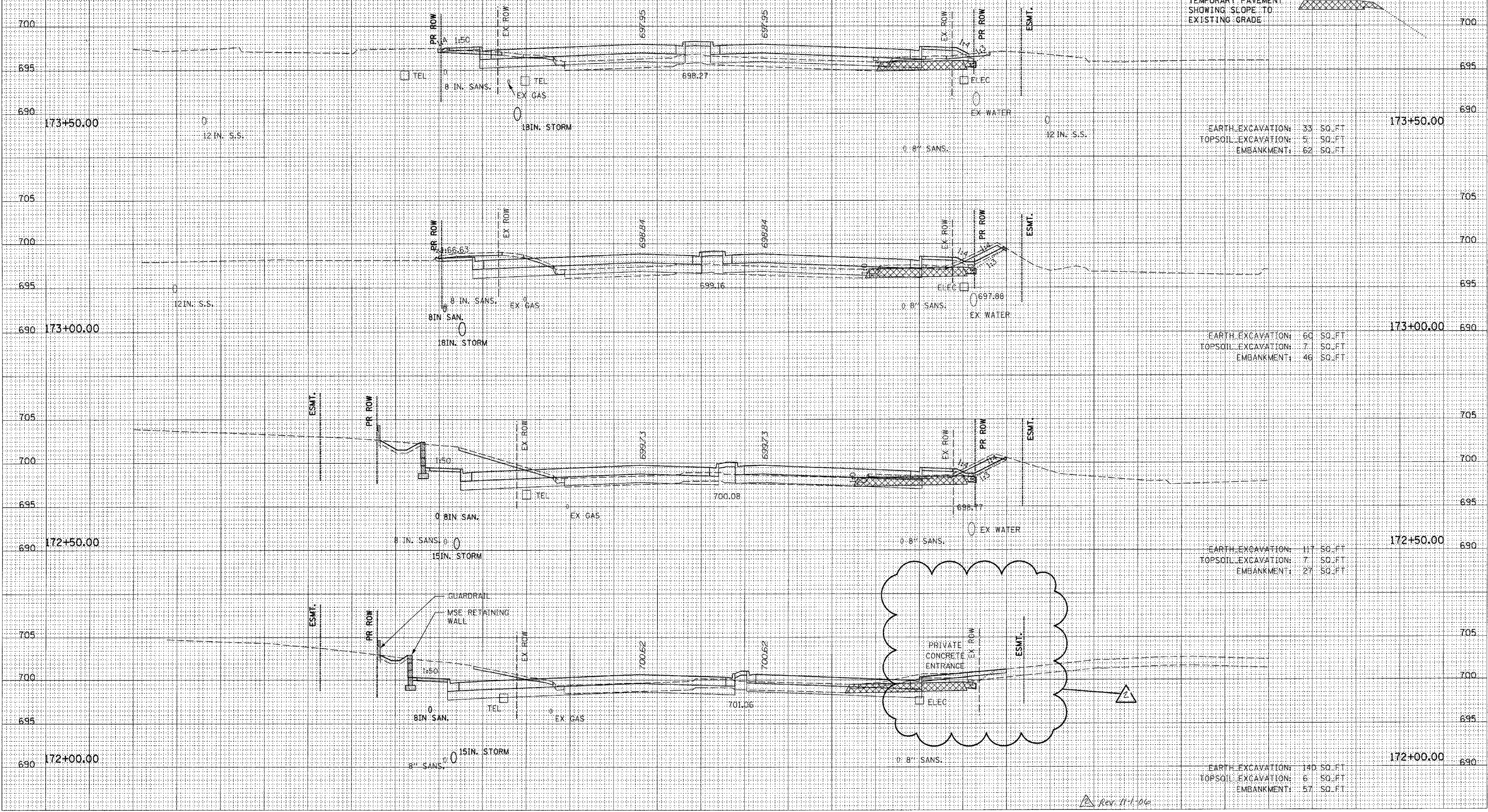
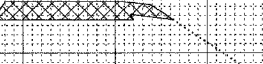
Rev. 11-1-06

F.A. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
351	537 R-1	COOK	245	236
STA.		TO STA.		
FED. ROAD DIST. NO.		ILLINOIS FED. AID PROJECT		
CONTRACT # 62880				

DATE	BY
FINAL SURVEY	
PLOTTED	
NOTE BOOK	
AREAS CHECKED	
NO.	

DATE	BY
ORIGINAL SURVEY	
PLOTTED	
NOTE BOOK	
AREAS CHECKED	
NO.	

LEGEND



173+50.00

EARTH EXCAVATION:	33 SQ. FT.
TOPSOIL EXCAVATION:	5 SQ. FT.
EMBANKMENT:	62 SQ. FT.

173+00.00

EARTH EXCAVATION:	60 SQ. FT.
TOPSOIL EXCAVATION:	7 SQ. FT.
EMBANKMENT:	46 SQ. FT.

172+50.00

EARTH EXCAVATION:	117 SQ. FT.
TOPSOIL EXCAVATION:	7 SQ. FT.
EMBANKMENT:	27 SQ. FT.

172+00.00

EARTH EXCAVATION:	140 SQ. FT.
TOPSOIL EXCAVATION:	6 SQ. FT.
EMBANKMENT:	57 SQ. FT.

Rev. 11-1-06