

ROUTE NO.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
1397	09-00129-00-PV	COOK	103	1
ILLINOIS PROJECT		M-9003 (267)		
VILLAGE SECTION				
CONTRACT NO. 63428				



LOCATION OF SECTION INDICATED THUS:

STATE OF ILLINOIS DEPARTMENT OF TRANSPORTATION DIVISION OF HIGHWAYS PLANS FOR PROPOSED FEDERAL AID PROJECT FAU ROUTE 1397 (ST. CHARLES ROAD) 21st AVENUE TO 5th AVENUE SECTION NO. 09-00129-00-PV PROJECT NO. M-9003 (267) VILLAGE OF MAYWOOD COOK COUNTY JOB NO. C-91-392-09

INDEX OF SHEETS ON SHEET NO. 2

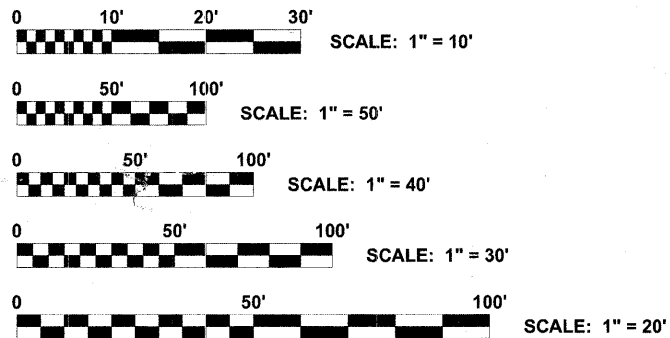
TRAFFIC DATA

2030 ADT = 11,800 vpd
POSTED SPEED LIMIT = 30 M.P.H.
DESIGN SPEED = 35 M.P.H.

DESIGN DESIGNATION

COLLECTOR

PROJECT LOCATED IN THE VILLAGE OF MAYWOOD

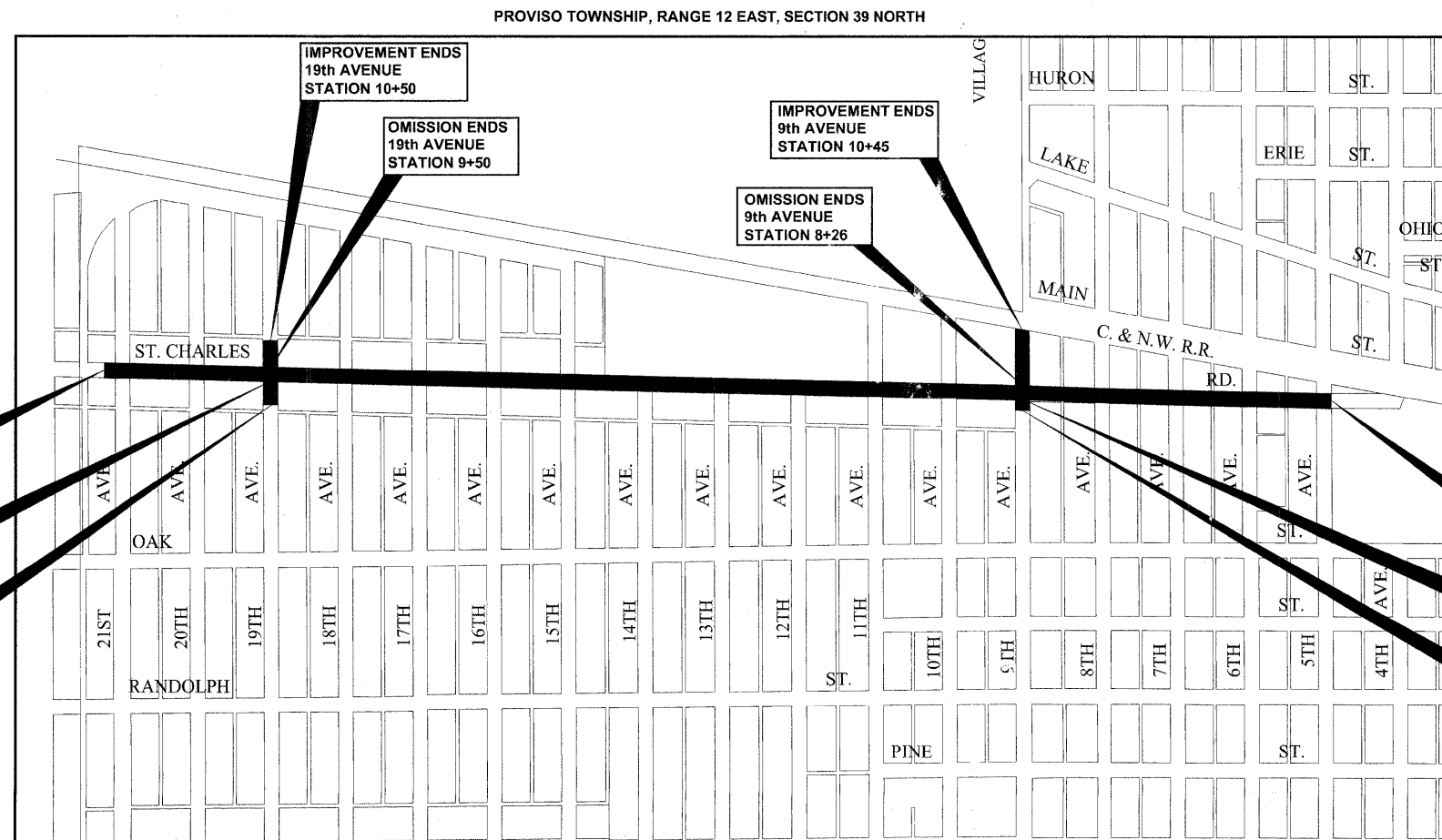


FULL SIZE PLANS HAVE BEEN PREPARED USING STANDARD ENGINEERING SCALES. REDUCED SIZED PLANS WILL NOT CONFORM TO STANDARD SCALES. IN MAKING MEASUREMENTS ON REDUCED PLANS, THE ABOVE SCALES MAY BE USED.



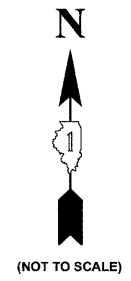
**Know what's below.
Call before you dig.**

CONTRACT NO. 63428



PROJECT LOCATION MAP

**NET LENGTH OF IMPROVEMENT = 6,017 LINFT = 1.140 MILE
GROSS LENGTH OF IMPROVEMENT = 6,228 LINFT = 1.180 MILE**



(NOT TO SCALE)

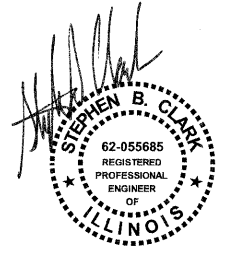
**STATE OF ILLINOIS
ILLINOIS DEPARTMENT OF TRANSPORTATION
DIVISION OF HIGHWAYS**

APPROVED December 1, 2009
Stephen B. Clark
VILLAGE OF MAYWOOD, PRESIDENT

PASSED December 10, 2009
[Signature]
DISTRICT 1 ENGINEER OF LOCAL ROADS & STREETS

RELEASED FOR BID
BASED ON LIMITED
REVIEW December 16, 2009
Diana M. O'Keefe
DEPUTY DIRECTOR OF HIGHWAYS,
REGION 1 ENGINEER

PRINTED BY AUTHORITY OF THE STATE OF ILLINOIS



DATE SIGNED: 12/01/09
LICENSE EXPIRES: 11-30-11

EDWIN HANCOCK ENGINEERING COMPANY
9933 ROOSEVELT ROAD PHONE: (708) 865-0300
WESTCHESTER, ILLINOIS 60154

FIELD ENGINEER: MARLIN SOLOMON, (847)705-4407

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LEGEND OF SYMBOLS

(TO BE USED IN CONJUNCTION WITH I.D.O.T. STANDARD 000001-05)

EXISTING	PROPOSED	DESCRIPTION	EXISTING	PROPOSED	DESCRIPTION
		POWER POLE			STORM SEWER PIPE
		GAS VALVE			COMBINATION SEWER PIPE
		STREET LIGHT			SANITARY SEWER PIPE
		WATER MAIN BUFFALO BOX			ELECTRIC LINE
		WATER MAIN VALVE BOX			GAS LINE
		SPRINKLER			TELEPHONE LINE
		WATER MAIN VALVE VAULT			WATER MAIN PIPE
		STORM SEWER MANHOLE			CURB AND GUTTER
		STORM CATCH BASIN			DIRECTION OF FLOW
		STORM INLET			DRAINAGE SUMMIT
		FIRE HYDRANT			WATER MAIN VALVE VAULT RIM AND TOP OF PIPE ELEVATION
		EXISTING STRUCTURE TO BE REMOVED			COMBINATION MANHOLE RIM AND INVERT ELEVATION
		EXISTING STRUCTURE TO BE ABANDONED			STORM SEWER MANHOLE/CATCHBASIN RIM AND INVERT ELEVATION
		BUSH			
		TREE			
		EXISTING CURB AND GUTTER TO BE REMOVED			STRUCTURE TO BE ADJUSTED
		EXISTING BITUMINOUS AREA TO BE REMOVED			
		EXISTING CONCRETE AREA TO BE REMOVED			
		EXISTING DRIVEWAY TO BE REMOVED			
		BUTT JOINT			
		COMBINATION SEWER PIPE TO BE REMOVED			
		STORM SEWER PIPE TO BE REMOVED			
		SANITARY SEWER PIPE TO BE REMOVED			
		WATER MAIN TO BE REMOVED			

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<p>HANCOCK ENGINEERING Civil Engineers Municipal Consultants Established 1911</p>	USER NAME -	DESIGNED - MK/SBC	REVISED -	STATE OF ILLINOIS DEPARTMENT OF TRANSPORTATION	INDEX OF SHEETS, LEGEND OF SYMBOLS	F.A.U. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.	
		DRAWN - MK/LEV	REVISED -			1397	09-00129-00-PV	COOK	103	2	
	PLOT SCALE -	CHECKED - SBC/JG/MV	REVISED -			CONTRACT NO. 63428					
	PLOT DATE -	DATE - 11-30-09	REVISED -			FED. ROAD DIST. NO. 1 ILLINOIS FED. AID PROJECT M-9003 (267)					
SCALE:						SHEET NO. OF SHEETS		STA. TO STA.		(BOOK NOS. 1579, 1583, 1589) E.H.E PROJECT NO. 565-08-29001	

I.D.O.T. STANDARD DRAWINGS

BENCHMARKS

STANDARD NO.	TITLE OR DESCRIPTION
000001-05	STANDARD SYMBOLS, ABBREVIATIONS AND PATTERNS
280001-05	TEMPORARY EROSION CONTROL SYSTEMS
420001-07	PAVEMENT JOINTS
420111-02	PCC PAVEMENT ROUNDOUTS
424001-05	CURB RAMPS FOR SIDEWALKS
442201-03	CLASS C&D PATCHES
602601-02	PRECAST REINFORCED CONCRETE FLAT SLAB TOP
701501-05	URBAN LANE CLOSURE, 2 L, 2 W, UNDIVIDED
701701-06	URBAN LANE CLOSURE, MULTILANE INTERSECTION
701801-04	LANE CLOSURE, MULTILANE, 1 W OR 2 W CROSSWALK OR SIDEWALK CLOSURE
701901-01	TRAFFIC CONTROL DEVICES
720001-02	SIGN PANEL MOUNTING DETAIL
720011-01	METAL POSTS FOR SIGNS, MARKERS AND DELINEATORS
720011-01	METAL POSTS FOR SIGNS, MARKERS AND DELINEATORS
720006-02	SIGN PANEL ERECTION DETAILS
729001-01	APPLICATIONS OF TYPES A & B METAL POSTS (FOR SIGNS & MARKERS)
780001-02	TYPICAL PAVEMENT MARKINGS
805001-01	ELECTRICAL SERVICE INSTALLATION DETAILS
814001-02	HANDHOLES
814006-02	DOUBLE HANDHOLES
857001-01	STANDARD PHASE DESIGNATION DIAGRAMS & PHASE SEQUENCE
862001-01	UNINTERRUPTABLE POWER SUPPLY (UPS)
877001-04	STEEL MAST ARM ASSEMBLY & POLE 16' THROUGH 55'
878001-08	CONCRETE FOUNDATION DETAILS
880001-01	SPAN WIRE MOUNTED SIGNALS & FLASHING BEACON INSTALLATION
880006-01	TRAFFIC SIGNAL MOUNTING DETAILS
B.L.R. 14-10	PORTLAND CEMENT CONCRETE PAVEMENT

BM-33	NORTH-NORTHWEST BONNET BOLT ON FIRE HYDRANT AT NORTHWEST CORNER OF ST. CHARLES ROAD AND 19TH AVENUE ELEVATION = 636.79
BM-34	NORTH-NORTHWEST BONNET BOLT ON FIRE HYDRANT AT NORTHEAST CORNER OF ST. CHARLES ROAD AND 17TH AVENUE ELEVATION = 635.64
BM-35	NORTH-NORTHWEST BONNET BOLT ON FIRE HYDRANT AT NORTHEAST CORNER OF ST. CHARLES ROAD AND 15TH AVENUE ELEVATION = 636.09
BM-36	NORTH-NORTHWEST BONNET BOLT ON FIRE HYDRANT AT SOUTHEAST CORNER OF ST. CHARLES ROAD AND 13TH AVENUE ELEVATION = 636.16
BM-37	NORTH-NORTHWEST BONNET BOLT ON FIRE HYDRANT AT SOUTHEAST CORNER OF ST. CHARLES ROAD AND 11TH AVENUE ELEVATION = 632.45
BM-38	NORTH-NORTHWEST BONNET BOLT ON FIRE HYDRANT AT SOUTHEAST CORNER OF ST. CHARLES ROAD AND 9TH AVENUE ELEVATION = 631.26

BM-62	NORTH-NORTHEAST BONNET BOLT ON FIRE HYDRANT AT SOUTHWEST CORNER OF ST. CHARLES ROAD AND 7TH AVENUE ELEVATION = 630.29
BM-63	NORTH-NORTHEAST BONNET BOLT ON FIRE HYDRANT AT NORTHWEST CORNER OF ST. CHARLES ROAD AND 5TH AVENUE ELEVATION = 629.73
TBM-2	NORTH-NORTHWEST BONNET BOLT ON FIRE HYDRANT AT NORTHEAST CORNER OF ST. CHARLES ROAD AND 18TH AVENUE ELEVATION = 635.66
TBM-3	NORTH-NORTHWEST BONNET BOLT ON FIRE HYDRANT AT SOUTHWEST CORNER OF ST. CHARLES ROAD AND 17TH AVENUE ELEVATION = 635.21
TBM-4	NORTH-NORTHWEST BONNET BOLT ON FIRE HYDRANT AT SOUTHWEST CORNER OF ST. CHARLES ROAD AND 16TH AVENUE ELEVATION = 635.17
TBM-5	NORTH-NORTHWEST BONNET BOLT ON FIRE HYDRANT AT SOUTHWEST CORNER OF ST. CHARLES ROAD AND 15TH AVENUE ELEVATION = 635.45

TBM-6	NORTH-NORTHWEST BONNET BOLT ON FIRE HYDRANT AT SOUTHWEST CORNER OF ST. CHARLES ROAD AND 14TH AVENUE ELEVATION = 636.20
TBM-7	NORTHEAST FLANGE BOLT ON FIRE HYDRANT AT SOUTHWEST CORNER OF ST. CHARLES ROAD AND 13TH AVENUE ELEVATION = 635.23
TBM-8	NORTH-NORTHWEST BONNET BOLT ON FIRE HYDRANT AT SOUTHWEST CORNER OF ST. CHARLES ROAD AND 12TH AVENUE ELEVATION = 634.52
TBM-9	NORTHEAST FLANGE BOLT ON FIRE HYDRANT AT SOUTHWEST CORNER OF ST. CHARLES ROAD AND 10TH AVENUE ELEVATION = 630.53
TBM-10	NORTH-NORTHWEST BONNET BOLT ON FIRE HYDRANT AT SOUTHWEST CORNER OF ST. CHARLES ROAD AND 8TH AVENUE ELEVATION = 630.78
TBM-11	NORTH-NORTHWEST BONNET BOLT ON FIRE HYDRANT AT SOUTHWEST CORNER OF ST. CHARLES ROAD AND 6TH AVENUE ELEVATION = 629.20

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 Municipal Consultants
 Established 1911

USER NAME --	DESIGNED -- MK/SBC	REVISED --
	DRAWN -- MK/LEV	REVISED --
PLOT SCALE --	CHECKED -- SBC/JG/MV	REVISED --
PLOT DATE --	DATE -- 11-30-09	REVISED --

**STATE OF ILLINOIS
 DEPARTMENT OF TRANSPORTATION**

HIGHWAY STANDARDS, BENCHMARKS

F.A.U. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
1397	09-00129-00-PV	COOK	103	3
CONTRACT NO. 63428			M-9003 (267)	
FED. ROAD DIST. NO. 1 ILLINOIS FED. AID PROJECT				

(BOOK NOS. 1579, 1583, 1589) E.H.E PROJECT NO. 565-08-29001

ACCESS

THE CONTRACTOR WILL BE REQUIRED TO MAINTAIN ACCESS FOR EMERGENCY VEHICLES TO INGRESS AND EGRESS ONTO PRIVATE & COMMERCIAL PROPERTY DURING THE CONSTRUCTION PERIOD. ALSO DURING CONSTRUCTION, GARBAGE TRUCKS MUST BE PERMITTED ACCESS TO THE WORK ZONE IN ORDER TO PICK UP RESIDENTIAL AND COMMERCIAL GARBAGE FOR THOSE PROPERTIES FRONTING THE WORK ZONE.

STANDARDS

ANY REFERENCE TO STANDARDS THROUGHOUT THE PLANS OR SPECIAL PROVISIONS SHALL BE INTERPRETED TO BE THE LATEST STANDARD OF THE DEPARTMENT AS SHOWN ON THE INDEX OF SHEETS IN THE PLANS.

UNDERGROUND UTILITIES

THE LOCATIONS OF THE UNDERGROUND UTILITIES AS SHOWN ON THE PLANS HAVE BEEN OBTAINED BY FIELD SURVEYS AND SEARCHES OF AVAILABLE RECORDS. IT IS BELIEVED THAT THE DATA IS ESSENTIALLY CORRECT, BUT THE VILLAGE OF MAYWOOD, THE ILLINOIS DEPARTMENT OF TRANSPORTATION AND/OR OTHER OFFICES AND AGENCIES ASSOCIATED WITH THE DEVELOPMENT OF THESE PLANS DO NOT GUARANTEE THEIR ACCURACY OR COMPLETENESS. THE CONTRACTOR WILL BE REQUIRED TO VERIFY THE EXACT LOCATION OF EACH FACILITY WITH THE UTILITY COMPANY, AND SHALL TAKE DUE CARE IN ALL PHASES OF THE CONSTRUCTION TO PROTECT ANY SUCH FACILITIES WHICH MAY BE AFFECTED BY THE WORK. ANY DAMAGE TO EXISTING UTILITIES SHALL BE REPAIRED AT THE CONTRACTOR'S EXPENSE.

ADJUSTMENTS REQUIRED BY UTILITY COMPANIES WILL BE PERFORMED BY THE COMPANY INVOLVED OR ITS CONTRACTOR.

COORDINATION OF ALL UTILITY WORK INVOLVED IN THE CONSTRUCTION AREA WILL BE DISCUSSED AT A PRE-CONSTRUCTION CONFERENCE.

THE CONTRACTOR SHALL USE EXTREME CAUTION IN THE REMOVAL OF ABANDONED EXISTING GAS LINES SINCE RESIDUAL MATERIALS CONTAINED THEREIN ARE HIGHLY EXPLOSIVE, FLAMMABLE, AND TOXIC. ONCE THE MAINS ARE ABANDONED BY THE OWNER, THE CONTRACTOR SHALL ASSUME ALL RESPONSIBILITY FOR ANY DAMAGE AND/OR INJURY OCCURRING ON THE PROJECT DUE TO HIS OPERATIONS NEXT TO THE MAINS AND/OR THE METHOD OF REMOVAL OF THE ABANDONED MAINS. UNDER NO CIRCUMSTANCE SHALL THE UTILITY COMPANIES BE HELD LIABLE FOR ANY DAMAGE AND/OR INJURY ONCE THEIR MAINS HAVE BEEN RELOCATED AND THE EXISTING ABANDONED.

STORM SEWER

THE VERTICAL AND HORIZONTAL CLEARANCES BETWEEN RELOCATED WATER MAINS AND PROPOSED OR EXISTING STORM SEWERS SHALL CONFORM TO THE REQUIREMENTS OF THE I.E.P.A. AS STATED IN THEIR POLICY STATEMENTS, SECTION 31-1.02A THROUGH 31-1.02D.

STORM SEWER LATERALS

ALL STORM SEWER LATERALS WILL BE LAID AT A MINIMUM OF 0.60 PERCENT (0.60%) GRADES, UNLESS OTHERWISE NOTED ON THE PLANS.

FRAMES AND GRATES

THE TYPE OF FRAMES AND GRATES REQUIRED FOR ALL CATCH BASINS AND MANHOLES LISTED IN THE SUMMARY OF QUANTITIES MAY BE FOUND ON THE PLANS AT THEIR RESPECTIVE LOCATIONS. WHERE LIDS ARE CALLED FOR ON THE PLANS, THEY SHALL BE IN ACCORDANCE WITH ARTICLE 604.01 OF THE STANDARD SPECIFICATIONS AND THE TERM LID IS USED IN LIEU OF GRATE.

ON ALL IMPROVEMENTS, THE FRAMES AND LIDS OF EXISTING CATCH BASINS, INLETS, MANHOLES, AND VALVE VAULTS WHICH ARE TO BE ABANDONED DUE TO CONSTRUCTION OF THIS IMPROVEMENT ARE TO REMAIN THE PROPERTY OF THE VILLAGE OF MAYWOOD AND BE SALVAGED. THE CONTRACTOR IS TO DELIVER FRAMES AND LIDS TO THE VILLAGE OF MAYWOOD PUBLIC WORKS YARD LOCATED AT 40 MADISON STREET.

BACKFILLING OF SEWERS

ALL BACKFILLING OPERATIONS SHALL CONFORM TO ARTICLE 550.07 OF THE STANDARD AND SUPPLEMENTAL SPECIFICATIONS.

BACKFILLING SEWERS UNDER ROADWAY

FOR SEWERS UNDER THE ROADWAY, BACKFILLING METHODS TWO AND THREE AS DESCRIBED IN ARTICLE 550.07 WILL NOT BE ALLOWED. JETTING WILL NOT BE A SATISFACTORY METHOD.

MAINTENANCE OF SEWER FLOWS

THE CONTRACTOR SHALL CONDUCT HIS OPERATIONS SO AS TO MAINTAIN AT ALL TIMES FLOWS THROUGH EXISTING STORM AND SANITARY SEWER SYSTEMS. HE SHALL ALSO PROVIDE AND MAINTAIN AN EFFICIENT PUMPING PLANT IF NECESSARY AND A TEMPORARY OUTLET AND BE PREPARED AT ALL TIMES TO DISPOSE OF THE WATER COLLECTED IN A SAFE MANNER WITHOUT DAMAGE OF ANY KIND TO ADJACENT PROPERTIES. THE ENDS OF EXISTING DRAINAGE LINES WHICH ARE NOT TO BE INCORPORATED INTO THE PROJECT ARE TO BE SEALED AS SPECIFIED IN THE SPECIAL PROVISIONS. THE COST OF ALL THE PREVIOUSLY MENTIONED WORK SHALL BE INCLUDED IN THE COST OF "STORM SEWER" PIPE INSTALLATION. EXISTING STRUCTURES WILL BE INSPECTED BEFORE CONSTRUCTION STARTS - ALL ACCUMULATION OF MATERIAL IN THE STRUCTURE DUE TO CONSTRUCTION OPERATIONS AS WELL AS MATERIAL EXISTING BEFORE CONSTRUCTION, SHALL BE REMOVED BY THE CONTRACTOR AT HIS EXPENSE.

EXISTING STRUCTURE MODIFICATIONS

ALL KNOWN EXISTING STRUCTURES IN THE PAVEMENT OR ADJACENT AREAS WHICH ARE INVOLVED IN THE CONSTRUCTION HAVE BEEN SHOWN ON THE PLANS AND NOTED AS TO BE REMOVED, FILLED, RECONSTRUCTED, OR ADJUSTED BY THE CONTRACTOR EXCEPT THOSE OF AMERITECH, THE COMMONWEALTH EDISON COMPANY, AND THE NICOR GAS COMPANY, WHICH ARE TO BE ADJUSTED BY THE APPROPRIATE UTILITY FORCE. WHERE EXISTING STRUCTURES ARE TO BE REMOVED OR FILLED, OR THE EXISTING CASTING REPLACED, THE CASTINGS REMOVED FROM THE STRUCTURE BECOME THE PROPERTY OF THE VILLAGE OF MAYWOOD.

SHEETING OR SHORING

IT SHOULD BE NOTED THAT ANY SHEETING OR SHORING REQUIRED FOR THE STORM SEWER INSTALLATION OR OTHER CONSTRUCTION ELEMENTS REQUIRING RELATIVELY DEEP EXCAVATIONS SHALL BE INCLUDED IN THE COST OF "STORM SEWERS" PIPE INSTALLATION AND NO ADDITIONAL COMPENSATION WILL BE ALLOWED FOR ANY SUPPLEMENTAL WORK ASSOCIATED WITH THE MAINTENANCE OF TRENCH SIDES OR OTHER EXCAVATED AREAS.

MAINTENANCE OF EXISTING DRAINAGE STRUCTURES

WHEN DURING THE CONSTRUCTION OPERATIONS, ANY LOOSE MATERIAL IS DEPOSITED IN THE FLOW LINE OF ANY GUTTERS OR DRAINAGE STRUCTURE 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 FACILITIES SHALL BE CLEAN AND FREE OF ALL OBSTRUCTIONS. THE COST OF THIS WORK SHALL BE INCLUDED IN THE COST OF "STORM SEWER" PIPE INSTALLATION.

SAW CUTTING

THE CONTRACTOR SHALL SAW CUT ASPHALT PAVEMENT AND DRIVEWAY PAVEMENT AS INDICATED ON THE PLANS OR AS DIRECTED BY THE ENGINEER, TO SEPARATE THE EXISTING PAVEMENT TO BE REMOVED BY MEANS OF AN APPROVED CONCRETE SAW TO A DEPTH AS DIRECTED BY THE ENGINEER. SUITABLE GUIDELINES OR DEVICES SHALL BE USED TO ASSURE CUTTING A NEAT, STRAIGHT LINE AS SHOWN ON THE PLANS. CARE SHALL BE TAKEN BY THE CONTRACTOR SO AS NOT TO DAMAGE THE REMAINING PAVEMENT DIRECTLY ADJACENT TO THE PAVEMENT TO BE REMOVED. ANY DAMAGE TO THE EXISTING PAVEMENT RESULTING FROM PAVEMENT REMOVAL OPERATIONS SHALL BE REPAIRED AT THE CONTRACTOR'S EXPENSE. SAW-CUTTING ALONG THE PAVEMENT REMOVAL AREAS AND THE AREAS TO HAVE CLASS C PATCHING INSTALLED WILL BE PAID FOR AS "SAW-CUTTING". ALL OTHER SAW-CUTTING WILL BE INCLUDED IN THE RESPECTIVE REMOVAL ITEM.

TRAFFIC PROTECTION

ALL UNBALLASTED TYPE I & TYPE II BARRICADES SHALL HAVE TWO SANDBAGS ON THE BOTTOM RAILS.

EXISTING ROADWAY SIGNS

ALL EXISTING ROADWAY SIGNS, MARKERS, ETC., LOCATED WITHIN THE ROADWAY RIGHT-OF-WAY WHICH ARE NOT INVOLVED IN THIS CONSTRUCTION SHALL BE LEFT AT THE LOCATIONS. IT IS CONTRACTOR'S RESPONSIBILITY TO REPLACE WITH NEW SIGNS IF THEY ARE DAMAGED DURING THE CONSTRUCTION.

SOILS REPORT

A SOILS REPORT HAS BEEN PREPARED CONTAINING CERTAIN INFORMATION RELATING TO GENERAL SOIL CONDITIONS TO BE ENCOUNTERED ALONG THE ROUTE OF THE WORK. THE CONTRACTOR WILL BE PERMITTED TO EXAMINE THIS INFORMATION AND DETERMINE ITS VALUE. ANY ADDITIONAL BORINGS DEEMED NECESSARY BY THE CONTRACTOR SHALL BE MADE AT HIS OWN EXPENSE.

MANHOLE OR VALVE VAULT COVERS

THE WORD "WATER", "SANITARY", OR "STORM" SHALL BE CAST INTO THE LID OF EACH RESPECTIVE MANHOLE OR VALVE VAULT.

PLUGGING EXISTING SEWERS AND DRAINS

ALL SEWERS TO BE ABANDONED SHALL BE PLUGGED AT BOTH ENDS WITH A MINIMUM OF TWO (2) FEET LONG NON-SHRINK CONCRETE/MORTAR PLUG. THIS WORK SHALL NOT BE PAID FOR SEPARATELY, BUT SHALL BE INCLUDED IN THE COST OF "REMOVING MANHOLES", "REMOVING CATCH BASINS" AND "REMOVING INLETS".

SEWER PIPE MATERIALS AND JOINTS

SEWER PIPE INSTALLED ON THIS PROJECT SHALL CONFORM TO THE FOLLOWING STANDARD:

TYPE OF PIPE	MATERIAL STANDARD	JOINT STANDARD
PVC PIPE	ASTM D-2241	ASTM D-3139
DUCTILE IRON PIPE	CLASS 52 ANSI-A 21.51	ANSI/AWWA C111/A21.11
REINFORCED CONCRETE PIPE	ASTM C-76 CLASS	ASTM - C-443

EXISTING LIGHTING CABLES

IT SHALL BE THE CONTRACTORS RESPONSIBILITY TO PROTECT EXISTING LIGHT CABLES, ESPECIALLY THE CIRCUITS ON THE ADJACENT INTERSECTING STREETS. THE CONTRACTOR SHALL BE REQUIRED TO RESTORE WIRES AND CONDUIT IF THEY ARE DAMAGED BY HIS WORK. THE CONTRACTOR WILL NOT BE ALLOWED TO SPLICE ANY WIRES THAT ARE TO BE REPAIRED.

UNDERCUT AND PGES

A QUANTITY OF POROUS GRANULAR EMBANKMENT, SUBGRADE (PGES), HAS BEEN PROVIDED FOR USE IF THE EXISTING SOILS ARE 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 ENGINEER. ALL POTENTIALLY UNSTABLE SOILS SHOULD BE TESTED WITH A STATIC CONE PENETROMETER AND TREATED IN ACCORDANCE WITH ARTICLE 301.03 AND THE UNDERCUT GUIDELINES IN THE IDOT SUBGRADE STABILITY MANUAL. IF UNSUITABLE MATERIAL IS ENCOUNTERED, THE SOIL SHALL BE REMOVED AND REPLACED WITH PGES AS DETERMINED BY THE ENGINEER. IF UNSUITABLE MATERIAL IS NOT ENCOUNTERED, THEN THE QUANTITY OF PGES WILL REMAIN UNUSED AND NO ADDITIONAL COMPENSATION WILL BE DUE TO THE CONTRACTOR.

Drawing file: W:\Projects\56508290 - St. Charles RA\04_Con-Notes.dwg Dec 07, 2009 10:41am

HANCOCK ENGINEERING
 Civil Engineers
 Municipal Consultants
 Established 1911

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 Woodstock, IL 60192-2780
 Phone: 708-866-0388
 Fax: 708-866-0322

USER NAME -	DESIGNED - MK/SBC	REVISED -
	DRAWN - MK/LEV	REVISED -
PLOT SCALE -	CHECKED - SBC/JG/MV	REVISED -
PLOT DATE -	DATE - 11-30-09	REVISED -

**STATE OF ILLINOIS
 DEPARTMENT OF TRANSPORTATION**

GENERAL NOTES				
SCALE:	SHEET NO.	OF	SHEETS	STA. TO STA.

F.A.U. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.	NONE
1397	09-00129-00-PV	COOK	103	4	
CONTRACT NO. 63428					
FED. ROAD DIST. NO. 1 ILLINOIS FED. AID PROJECT M-9003 (267)					
(BOOK NOS. 1579, 1583, 1589) E.H.E PROJECT NO. 565-08-29001					

SUMMARY OF QUANTITIES

CODE	PAY ITEM	UNIT	TOTAL QUANTITY	J000-2A 80% FEDERAL 20% LOCAL	Y-031-IF 80% FEDERAL 20% LOCAL	Y-030-IE 80% FEDERAL 20% LOCAL
20200100	EARTH EXCAVATION	CU YD	6,580	6,580	0	0
20201200	REMOVAL AND DISPOSAL OF UNSUITABLE MATERIAL	CU YD	7,000	7,000	0	0
20700420	POROUS GRANULAR EMBANKMENT, SUBGRADE	CU YD	7,000	7,000	0	0
20800150	TRENCH BACKFILL	CU YD	161	161	0	0
* 21101615	TOPSOIL FURNISH AND PLACE, 4"	SQ YD	4,000	4,000	0	0
* 25000400	NITROGEN FERTILIZER NUTRIENT	POUND	75	75	0	0
* 25000500	PHOSPHORUS FERTILIZER NUTRIENT	POUND	75	75	0	0
* 25000600	POTASSIUM FERTILIZER NUTRIENT	POUND	75	75	0	0
* 25200100	SODDING	SQ YD	4,000	4,000	0	0
25200200	SUPPLEMENTAL WATERING	UNIT	100	100	0	0
28000510	INLET FILTERS	EACH	79	79	0	0
35101800	AGGREGATE BASE COURSE, TYPE B 6"	SQ YD	29,322	29,322	0	0
40600100	BITUMINOUS MATERIALS (PRIME COAT)	GAL	209	209	0	0
40600300	AGGREGATE (PRIME COAT)	TON	3	3	0	0
40600635	LEVELING BINDER (MACHINE METHOD), N70	TON	75	75	0	0
40600982	HOT-MIX ASPHALT SURFACE REMOVAL - BUTT JOINT	SQ YD	400	400	0	0
40603340	HOT-MIX ASPHALT SURFACE COURSE, MIX "D", N70	TON	150	150	0	0
40800050	INCIDENTAL HOT-MIX ASPHALT SURFACING	TON	95	95	0	0
42000501	PORTLAND CEMENT CONCRETE PAVEMENT 10" (JOINTED)	SQ YD	29,500	29,500	0	0
42101300	PROTECTIVE COAT	SQ YD	35,570	35,570	0	0
42300300	PORTLAND CEMENT CONCRETE DRIVEWAY PAVEMENT, 7 INCH	SQ YD	1,350	1,350	0	0
42300400	PORTLAND CEMENT CONCRETE DRIVEWAY PAVEMENT, 8 INCH	SQ YD	14	14	0	0
42400200	PORTLAND CEMENT CONCRETE SIDEWALK 5 INCH	SQ FT	23,000	23,000	0	0
42400800	DETECTABLE WARNINGS	SQ FT	720	720	0	0
44000100	PAVEMENT REMOVAL	SQ YD	29,500	29,500	0	0
44000157	HOT-MIX ASPHALT SURFACE REMOVAL, 2"	SQ YD	1,400	1,400	0	0
44000200	DRIVEWAY PAVEMENT REMOVAL	SQ YD	1,300	1,300	0	0
44000500	COMBINATION CURB AND GUTTER REMOVAL	FOOT	12,500	12,500	0	0
44000600	SIDEWALK REMOVAL	SQ FT	27,000	27,000	0	0
44201349	CLASS C PATCHES, TYPE I, 10 INCH	SQ YD	39	39	0	0
56106300	ADJUSTING WATER MAIN 6"	FOOT	295	295	0	0
56106600	ADJUSTING WATER MAIN 12"	FOOT	75	75	0	0
56400500	FIRE HYDRANTS TO BE REMOVED	EACH	18	18	0	0
56400820	FIRE HYDRANT WITH AUXILIARY VALVE AND BOX	EACH	18	18	0	0
56500800	DOMESTIC WATER SERVICE BOXES	EACH	80	80	0	0
60206905	CATCH BASINS, TYPE C, TYPE 1 FRAME, OPEN LID	EACH	3	3	0	0
60213800	RESTRICTED DEPTH CATCH BASINS, 4'-DIAMETER, TYPE 1 FRAME, OPEN LID	EACH	32	32	0	0
60234200	INLETS, TYPE A, TYPE 1 FRAME, OPEN LID	EACH	37	37	0	0
60248700	VALVE VAULTS, TYPE A, 4'-DIAMETER, TYPE 1 FRAME, CLOSED LID	EACH	6	6	0	0
60248900	VALVE VAULTS, TYPE A, 5'-DIAMETER, TYPE 1 FRAME, CLOSED LID	EACH	3	3	0	0
60249400	VALVE BOXES 6"	EACH	3	3	0	0
60252800	CATCH BASINS TO BE RECONSTRUCTED	EACH	2	2	0	0
60257900	MANHOLES TO BE RECONSTRUCTED	EACH	31	31	0	0
60266100	VALVE VAULTS TO BE RECONSTRUCTED	EACH	1	1	0	0
60300305	FRAMES AND LIDS TO BE ADJUSTED	EACH	70	70	0	0
60406100	FRAMES AND LIDS, TYPE 1, CLOSED LID	EACH	76	76	0	0
60500040	REMOVING MANHOLES	EACH	1	1	0	0
60500050	REMOVING CATCH BASINS	EACH	7	7	0	0
60500060	REMOVING INLETS	EACH	60	60	0	0
60600905	CONCRETE CURB, TYPE B (MODIFIED)	FOOT	130	130	0	0
60603800	COMBINATION CONCRETE CURB AND GUTTER, TYPE B-6.12	FOOT	11,800	11,800	0	0
60604100	COMBINATION CONCRETE CURB AND GUTTER, TYPE B-6.12 (MODIFIED)	FOOT	500	500	0	0
66900200	NON-SPECIAL WASTE DISPOSAL	CU YD	1,000	1,000	0	0
67100100	MOBILIZATION	L SUM	1	1	0	0
70106800	CHANGEABLE MESSAGE SIGN	CAL MO	6	6	0	0
70300520	PAVEMENT MARKING TAPE, TYPE III 4"	FOOT	18,440	18,440	0	0
70300570	PAVEMENT MARKING TAPE, TYPE III 24"	FOOT	40	40	0	0
70300625	TEMPORARY PAINT PAVEMENT MARKING LINE 4	FOOT	14,960	14,960	0	0
70300660	TEMPORARY PAINT PAVEMENT MARKING LINE 24	FOOT	40	40	0	0
* 70301000	WORK ZONE PAVEMENT MARKING REMOVAL	SQ FT	25	25	0	0
* 72000100	SIGN PANEL - TYPE 1	SQ FT	521	521	0	0
* 72900100	METAL POST - TYPE A	FOOT	565	565	0	0
* 72900200	METAL POST - TYPE B	FOOT	259	259	0	0
* 78000200	THERMOPLASTIC PAVEMENT MARKING - LINE 4"	FOOT	680	680	0	0
* 78008200	POLYUREA PAVEMENT MARKING TYPE I - LETTERS AND SYMBOLS	SQ FT	400	400	0	0
* 78008210	POLYUREA PAVEMENT MARKING TYPE I - LINE 4"	FOOT	13,598	13,598	0	0
* 78008230	POLYUREA PAVEMENT MARKING TYPE I - LINE 6"	FOOT	1,780	1,780	0	0
* 78008250	POLYUREA PAVEMENT MARKING TYPE I - LINE 12"	FOOT	816	816	0	0
* 78008270	POLYUREA PAVEMENT MARKING TYPE I - LINE 24"	FOOT	518	518	0	0
* 80400100	ELECTRIC SERVICE INSTALLATION	EACH	1	0	0	1
* 81000600	CONDUIT IN TRENCH, 2" DIA., GALVANIZED STEEL	FOOT	1,070	0	1,070	0
* 81000800	CONDUIT IN TRENCH, 3" DIA., GALVANIZED STEEL	FOOT	73	0	73	0
* 81001000	CONDUIT IN TRENCH, 4" DIA., GALVANIZED STEEL	FOOT	20	0	20	0
* 81018500	CONDUIT PUSHED, 2" DIA., GALVANIZED STEEL	FOOT	1,183	0	133	1,050

* DENOTES SPECIALTY ITEMS

Drawing file: W:\Projects\56502290 - St. Charles Rd\00_Sum_Quantities.dwg Dec: 22, 2009 - 5:53pm

HANCOCK ENGINEERING
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USER NAME -	DESIGNED - MK/SBC	REVISED -
PLOT SCALE -	DRAWN - MK/LEV	REVISED -
PLOT DATE -	CHECKED - SBC/JG/MV	REVISED -
	DATE - 11-30-09	REVISED - IDOT REV. 12-22-09

**STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION**

SUMMARY OF QUANTITIES

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

F.A.U. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
1397	09-00129-00-PV	COOK	103	5
FED. ROAD DIST. NO. 1 ILLINOIS FED. AID PROJECT			CONTRACT NO. 63428	
			M-9003 (267)	

BOOK NOS. 1470, 1482, 1486 E.H.E. PROJECT NO. 56502290

SUMMARY OF QUANTITIES

CODE	PAY ITEM	UNIT	TOTAL QUANTITY	J000-2A 80% FEDERAL 20% LOCAL	Y-031-1F 80% FEDERAL 20% LOCAL	Y-030-4E 80% FEDERAL 20% LOCAL
* 81018600	CONDUIT PUSHED, 2 1/2" DIA., GALVANIZED STEEL	FOOT	200	0	0	200
* 81018900	CONDUIT PUSHED, 4" DIA., GALVANIZED STEEL	FOOT	399	0	399	0
* 81019000	CONDUIT PUSHED, 5" DIA., GALVANIZED STEEL	FOOT	50	0	0	50
* 81400100	HANDHOLE	EACH	12	0	12	0
* 81400300	DOUBLE HANDHOLE	EACH	2	0	2	0
* 81603050	UNIT DUCT, 600V, 3 -1C NO.6, 1/C NO.8 GROUND, (XLP -TYPE USE), 1" DIA. POLYETHYLENE	FOOT	12,000	0	0	12,000
* 81702400	ELECTRIC CABLE IN CONDUIT, 600V (XLP-TYPE USE) 3-1/C NO. 2	FOOT	200	0	0	200
* 81900200	TRENCH AND BACKFILL FOR ELECTRICAL WORK	FOOT	1,153	0	1,153	0
* 82500505	LIGHTING CONTROLLER, SPECIAL	EACH	1	0	0	1
* 83007200	LIGHT POLE, ALUMINUM, 35 FT. MH, 6 FT. MAST ARM	EACH	72	0	0	72
* 83600200	LIGHT POLE FOUNDATION, 24" DIAMETER	FOOT	648	0	0	648
* 83800505	BREAKAWAY DEVICE, COUPLING, WITH ALUMINUM SKIRT	EACH	72	0	0	72
* 84200600	REMOVAL OF EXISTING LIGHTING UNIT, NO SALVAGE	EACH	36	0	0	36
* 85000200	MAINTENANCE OF EXISTING TRAFFIC SIGNAL INSTALLATION	EACH	1	0	1	0
* 85700200	FULL-ACTUATED CONTROLLER AND TYPE IV CABINET	EACH	2	0	2	0
* 87301215	ELECTRIC CABLE IN CONDUIT, SIGNAL NO. 14 2C	FOOT	903	0	903	0
* 87301225	ELECTRIC CABLE IN CONDUIT, SIGNAL NO. 14 3C	FOOT	1,770	0	1,770	0
* 87301245	ELECTRIC CABLE IN CONDUIT, SIGNAL NO. 14 5C	FOOT	3,252	0	3,252	0
* 87301305	ELECTRIC CABLE IN CONDUIT, LEAD-IN, NO. 14 1 PAIR	FOOT	2,490	0	2,490	0
* 87301805	ELECTRIC CABLE IN CONDUIT, SERVICE, NO. 6 2C	FOOT	245	0	245	0
* 87700160	STEEL MAST ARM ASSEMBLY AND POLE, 24 FT.	EACH	3	0	3	0
* 87700170	STEEL MAST ARM ASSEMBLY AND POLE, 26 FT.	EACH	1	0	1	0
* 87700180	STEEL MAST ARM ASSEMBLY AND POLE, 28 FT.	EACH	2	0	2	0
* 87700190	STEEL MAST ARM ASSEMBLY AND POLE, 30 FT.	EACH	1	0	1	0
* 87700240	STEEL MAST ARM ASSEMBLY AND POLE, 40 FT.	EACH	1	0	1	0
* 87800150	CONCRETE FOUNDATION, TYPE C	FOOT	8	0	8	0
* 87800400	CONCRETE FOUNDATION, TYPE E 30-INCH DIAMETER	FOOT	120	0	120	0
* 88030020	SIGNAL HEAD LED 1-FACE 3-SECTION, MAST ARM MOUNTED	EACH	16	0	16	0
* 88030050	SIGNAL HEAD LED 1-FACE 3-SECTION, BRACKET MOUNTED	EACH	8	0	8	0
* 88102747	PEDESTRIAN SIGNAL HEAD, LED, 2-FACE, BRACKET MOUNTED WITH COUNTDOWN TIMER	EACH	8	0	8	0
* 88200210	TRAFFIC SIGNAL BACKPLATE, LOUVERED, ALUMINUM	EACH	16	0	16	0
* 88500100	INDUCTIVE LOOP DETECTOR	EACH	12	0	12	0
* 88600100	DETECTOR LOOP, TYPE I	FOOT	1,287	0	1,287	0
* 88800100	PEDESTRIAN PUSH-BUTTON	EACH	8	0	8	0
* 89000100	TEMPORARY TRAFFIC SIGNAL INSTALLATION	EACH	2	0	2	0
* 89502375	REMOVE EXISTING TRAFFIC SIGNAL EQUIPMENT	EACH	2	0	2	0
* 89502380	REMOVE EXISTING HANDHOLE	EACH	11	0	11	0
* 89502385	REMOVE EXISTING CONCRETE FOUNDATION	EACH	15	0	15	0
* Z0018500	DRAINAGE STRUCTURES TO BE CLEANED	EACH	75	75	0	0
* Z0019600	DUST CONTROL WATERING	UNIT	100	100	0	0
* Z0048665	RAILROAD PROTECTIVE LIABILITY INSURANCE	L SUM	1	1	0	0
* Z0048900	RAILROAD TRACK REMOVAL	FOOT	5,490	5,490	0	0
* Z0062000	SAW CUTTING	FOOT	6,400	6,400	0	0
* Z0076600	TRAINEES	hour	1,500	1,500	0	0
* XX000541	EXPLORATORY EXCAVATION	CU YD	150	150	0	0
* XX000876	LUMINAIRE, METAL HALIDE HORIZONTAL MOUNT 250 WATT	EACH	72	0	0	72
* XX001464	SANITARY SEWERS, PVC, 6"	FOOT	80	80	0	0
* X0321905	STORM SEWER, TYPE I, WATER MAIN QUALITY PIPE, 12"	FOOT	535	535	0	0
* X0007235	STORM SEWERS, TYPE I, WATER MAIN QUALITY PIPE, 10"	FOOT	1,625	1,625	0	0
* XX003424	CONNECTION TO EXISTING STRUCTURE	EACH	29	29	0	0
* XX005195	COMBINED SEWER MANHOLE, 4' - DIAMETER TYPE 1 FRAME, CLOSED LID	EACH	21	21	0	0
* XX005656	INLET FILTER CLEANING	EACH	79	79	0	0
* XX005689	STORM SEWER, DUCTILE IRON PIPE, CLASS 52 10"	FOOT	310	310	0	0
* XX005770	STRUCTURE TO BE ABANDONED	EACH	56	56	0	0
* XX006339	FENCE TO BE REMOVED AND REPLACED	FOOT	90	90	0	0
* XX006937	GROUND ROD, 5/8" DIA. X 10 FT.	EACH	73	0	0	73
* XX006993	10' X 4" CATCH BASIN TRAP AND RESTRICTOR	EACH	4	4	0	0
* X0323574	MAINTENANCE OF LIGHTING SYSTEM	CAL MO	9	0	0	9
* X0325110	BIAXIAL GEOGRID	SQ YD	33,300	33,300	0	0
* X0325416	TRAFFIC CONTROL AND PROTECTION FOR DETOUR ROUTE	L SUM	1	1	0	0
* X0325737	TEMPORARY TRAFFIC SIGNAL TIMING	EACH	2	0	2	0
* X4021000	TEMPORARY ACCESS (PRIVATE ENTRANCE)	EACH	7	7	0	0
* X4022000	TEMPORARY ACCESS (COMMERCIAL ENTRANCE)	EACH	28	28	0	0
* X4023000	TEMPORARY ACCESS (ROAD)	EACH	29	29	0	0
* X7010010	TRAFFIC CONTROL - STAGE I	L SUM	1	1	0	0
* X7010020	TRAFFIC CONTROL - STAGE II	L SUM	1	1	0	0
* X7240600	REMOVE AND RE-ERECT EXISTING SIGN	EACH	12	12	0	0
* X8050015	SERVICE INSTALLATION - POLE MOUNTED	EACH	2	0	2	0
* X8620020	UNINTERRUPTIBLE POWER SUPPLY	EACH	2	0	2	0
* X8730027	ELECTRIC CABLE IN CONDUIT, GROUNDING, NO. 6 1C	FOOT	718	0	718	0
* 80800280	ELECTRIC UTILITY SERVICE CONNECTION	L SUM	1	0	1	0

* DENOTES SPECIALTY ITEMS Δ Y080

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USER NAME -	DESIGNED - MK/SBC	REVISED -
PLOT SCALE -	DRAWN - MK/LEV	REVISED -
PLOT DATE -	CHECKED - SBC/JGMV	REVISED -
	DATE - 11-30-09	REVISED - IDOT REV. 12-22-09

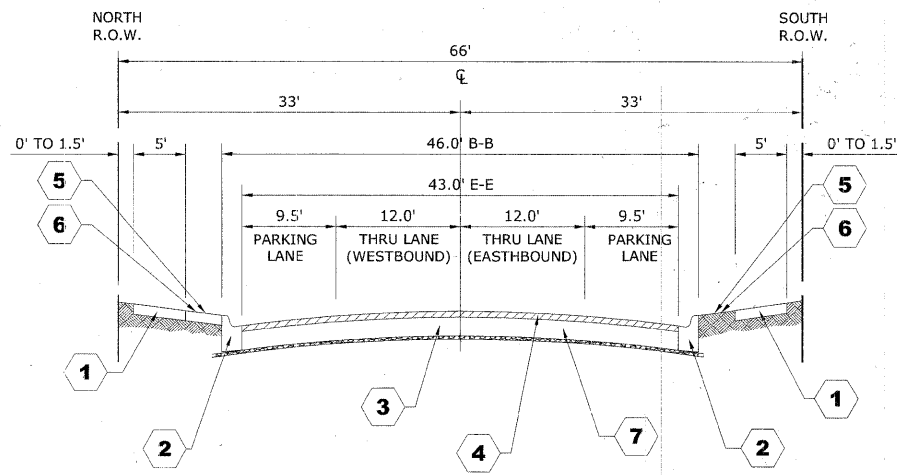
**STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION**

SUMMARY OF QUANTITIES

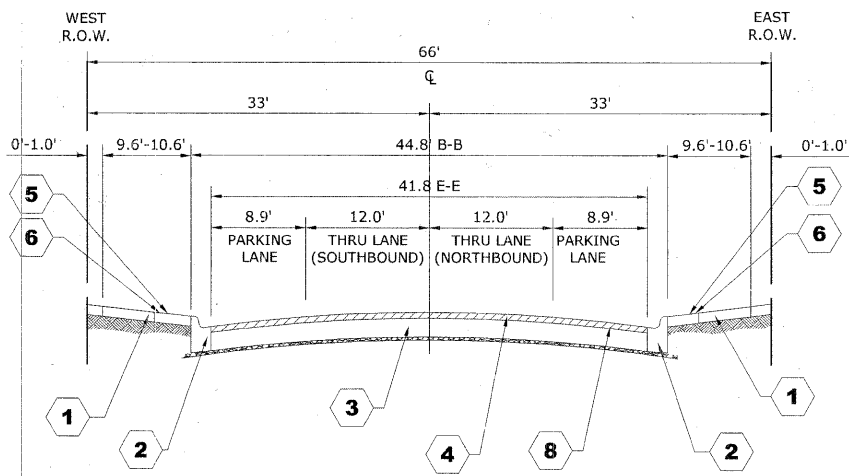
SCALE: SHEET NO. OF SHEETS STA. TO STA.

F.A.U. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
1397	09-00129-00-PV	COOK	103	6
CONTRACT NO. 63428			FED. ROAD DIST. NO. 1 ILLINOIS FED. AID PROJECT M-9003 (267)	

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EXISTING TYPICAL CROSS SECTION
ST. CHARLES ROAD
STATION 3+50 TO STATION 58+40



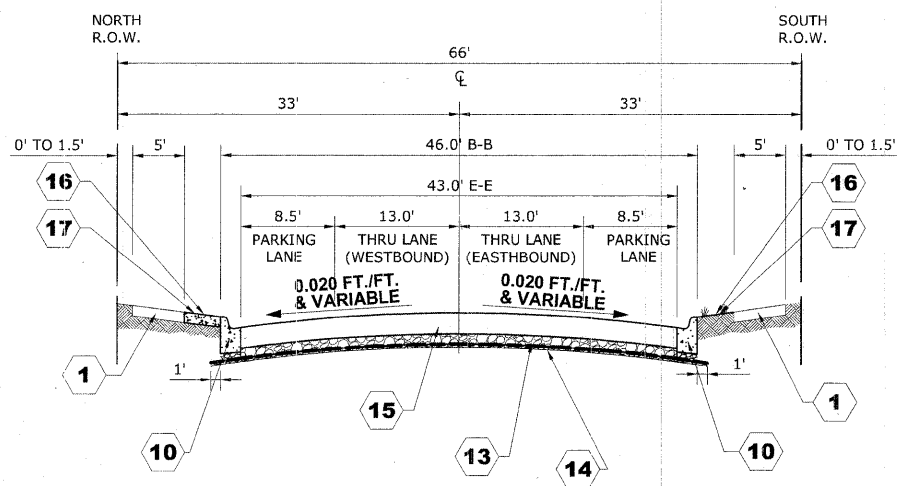
EXISTING TYPICAL CROSS SECTION
19th AVENUE
STATION 7+45 TO STATION 8+50 (SOUTH)
STATION 9+50 TO STATION 10+50 (NORTH)

NOTE:
 **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 A STATIC CONE PENETROMETER AND TREATED IN ACCORDANCE WITH ARTICLE 301.03 AND THE UNDERCUT GUIDELINES IN THE IDOT SUBGRADE STABILITY MANUAL. IF UNSTABLE AND/OR UNSUITABLE MATERIAL IS ENCOUNTERED, THE SOIL SHALL BE REMOVED AND REPLACED WITH PGES OR EMBANKMENT AS DETERMINED BY THE GEOTECHNICAL ENGINEER. 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.

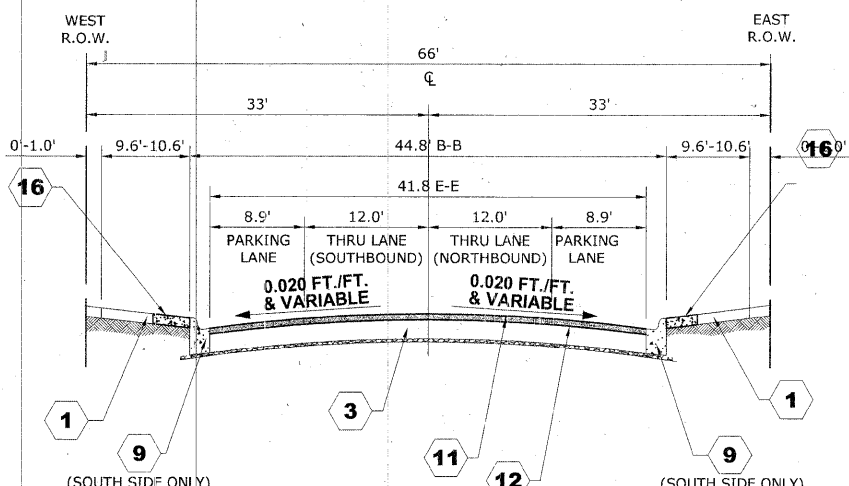
**POROUS GRANULAR EMBANKMENT
 SUBGRADE LOCATIONS PER SOIL REPORT**

LOCATION	NORTH SIDE		SOUTH SIDE	
	WIDTH	DEPTH	WIDTH	DEPTH
ST. CHARLES ROAD STA. 3+50 TO STA. 58+40	21.5'	0.75'	21.5'	0.75'

LOCATION	WEST SIDE		EAST SIDE	
	WIDTH	DEPTH	WIDTH	DEPTH
9th AVENUE (NORTH) STA. 8+26 TO STA. 10+45	19.25'	0.75'	19.25'	0.75'



PROPOSED TYPICAL CROSS SECTION
ST. CHARLES ROAD
STATION 3+50 TO STATION 58+40



PROPOSED TYPICAL CROSS SECTION
19th AVENUE
STATION 7+45 TO STATION 8+50 (SOUTH)
STATION 9+50 TO STATION 10+50 (NORTH)

TYPICAL CROSS SECTION LEGEND

EXISTING CONDITIONS

- 1 PORTLAND CEMENT CONCRETE SIDEWALK, 5"
- 2 COMBINATION CONCRETE CURB AND GUTTER, TYPE B-6.12
- 3 PORTLAND CEMENT CONCRETE BASE COURSE, APPROX. 13.5"
- 4 HOT MIX ASPHALT BINDER AND SURFACE COURSE, APPROX. 2"
- 5 GRASS PARKWAY
- 6 PORTLAND CEMENT CONCRETE PARKWAY
- 7 PAVEMENT REMOVAL, APPROX. 13.5"
- 8 HOT MIX ASPHALT BINDER AND SURFACE COURSE REMOVAL, APPROX. 2"

PROPOSED CONDITIONS

- 9 COMBINATION CONCRETE CURB AND GUTTER, TYPE B-6.12 (MODIFIED)
- 10 COMBINATION CONCRETE CURB AND GUTTER, TYPE B-6.12
- 11 HOT-MIX ASPHALT SURFACE COURSE, MIX D, N70, (IL-9.5mm), 1 1/2"
- 12 LEVELING BINDER (MACHINE METHOD), N70, (IL-9.5mm), MINIMUM 3/4"
- 13 AGGREGATE BASE COURSE, TYPE B, 6"
- 14 BIAXIAL GEOGRID
- 15 PORTLAND CEMENT CONCRETE PAVEMENT, 10" (JOINTED)
- 16 PORTLAND CEMENT CONCRETE SIDEWALK, 5"
- 17 TOPSOIL FURNISH AND PLACE, 4" SODDING

HOT-MIX ASPHALT (HMA) MIXTURE REQUIREMENTS

ITEM	AIR VOIDS @ Ndes
RESURFACING -19TH AVE. (NORTH & SOUTH) AND 9TH AVE. (SOUTH)	
LEVELING BINDER (MACHINE METHOD), N70, (IL-9.5mm), 3/4"	4% @ 70 GYR.
HOT-MIX ASPHALT SURFACE COURSE, MIX D, N70, (IL-9.5mm), 1 1/2"	4% @ 70 GYR.
INCIDENTAL HOT-MIX ASPHALT SURFACING, MIX D, N70, (IL-9.5mm)	4% @ 70 GYR.

THE UNIT WEIGHT USED TO CALCULATE ALL HMA SURFACE MIXTURE QUANTITIES IS 112 LBS/SQ YD/IN.

THE "AC TYPE" FOR POLYMERIZED HMA MIXES SHALL BE "SBS/SBR PG 70 -22" AND FOR NON-POLYMERIZED HMA THE "AC TYPE" SHALL BE "PG 64 -22" UNLESS MODIFIED BY DISTRICT ONE SPECIAL PROVISIONS. FOR "PERCENT OF RAP" SEE DISTRICT ONE SPECIAL PROVISIONS.

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HANCOCK ENGINEERING
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USER NAME	DESIGNED - MK/SBC	REVISED
PLOT SCALE	DRAWN - MK/LEV	REVISED
PLOT DATE	CHECKED - SBC/JGMV	REVISED
	DATE - 11.30.09	REVISED - IDOT REV. 12-22-09

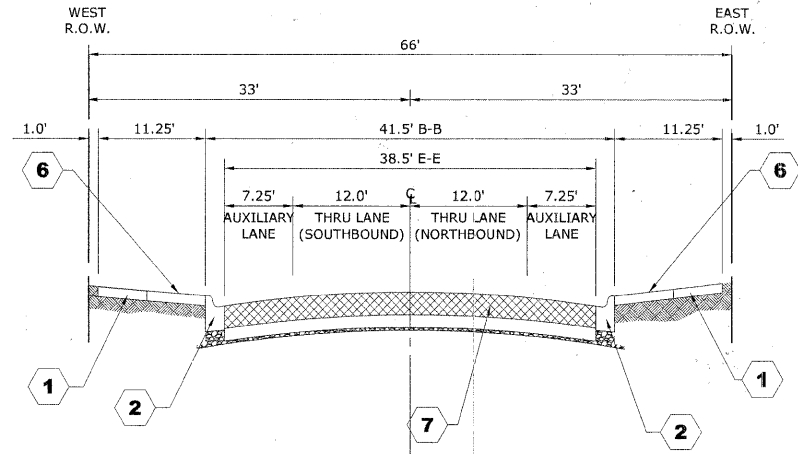
**STATE OF ILLINOIS
 DEPARTMENT OF TRANSPORTATION**

TYPICAL CROSS SECTIONS

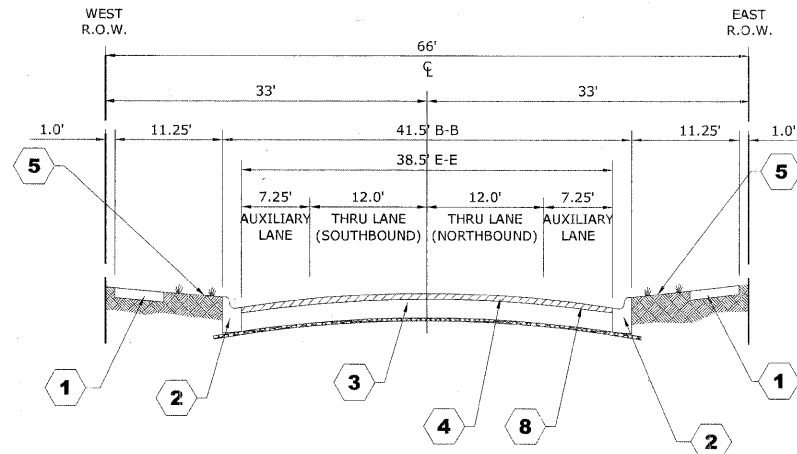
SCALE: NONE SHEET NO. 4 OF 1 SHEETS STA. TO STA.

F.A.U. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
1397	09-00129-00-PV	COOK	103	7

CONTRACT NO. 63428
 FED. ROAD DIST. NO. 1 ILLINOIS FED. AID PROJECT M-9003 (267)



EXISTING TYPICAL CROSS SECTION
9th AVENUE
STATION 8+26 TO STATION 10+45 (NORTH)



EXISTING TYPICAL CROSS SECTION
9th AVENUE
STATION 6+12 TO STATION 7+15 (SOUTH)

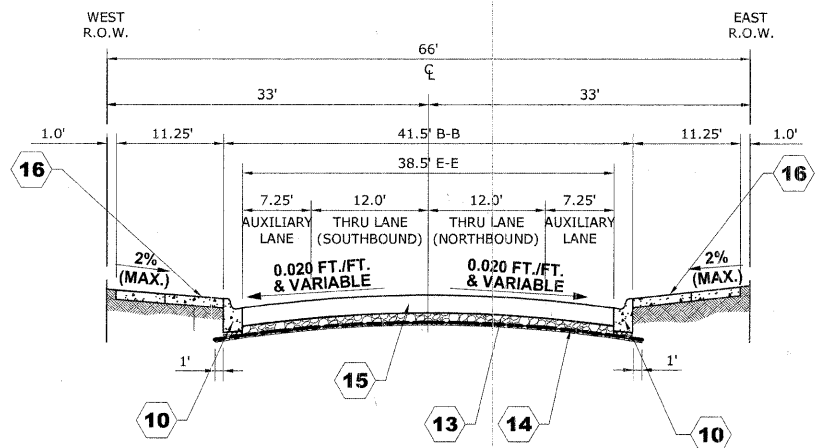
NOTE:

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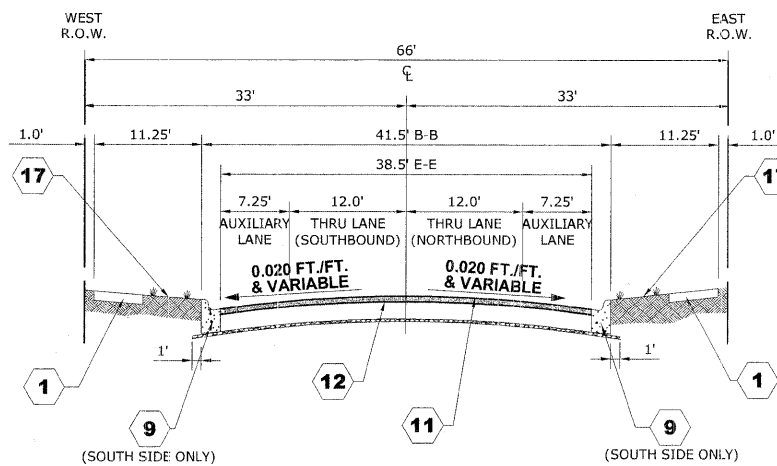
**POROUS GRANULAR EMBANKMENT
SUBGRADE LOCATIONS PER SOIL REPORT**

LOCATION	NORTH SIDE		SOUTH SIDE	
	WIDTH	DEPTH	WIDTH	DEPTH
ST. CHARLES ROAD STA. 3+50 TO STA. 58+40	21.5'	0.75'	21.5'	0.75'

LOCATION	WEST SIDE		EAST SIDE	
	WIDTH	DEPTH	WIDTH	DEPTH
9TH AVENUE (NORTH) STA. 8+26 TO STA. 10+45	19.25'	0.75'	19.25'	0.75'



PROPOSED TYPICAL CROSS SECTION
9th AVENUE
STATION 8+26 TO STATION 10+45 (NORTH)



PROPOSED TYPICAL CROSS SECTION
9th AVENUE
STATION 6+12 TO STATION 7+15 (SOUTH)

TYPICAL CROSS SECTION LEGEND

EXISTING CONDITIONS

- 1 PORTLAND CEMENT CONCRETE SIDEWALK, 5"
- 2 COMBINATION CONCRETE CURB AND GUTTER, TYPE B-6.12
- 3 PORTLAND CEMENT CONCRETE BASE COURSE, APPROX. 13.5"
- 4 HOT MIX ASPHALT BINDER AND SURFACE COURSE, APPROX. 2"
- 5 GRASS PARKWAY
- 6 PORTLAND CEMENT CONCRETE PARKWAY
- 7 PAVEMENT REMOVAL, APPROX. 13.5"
- 8 HOT MIX ASPHALT BINDER AND SURFACE COURSE REMOVAL, APPROX. 2"

PROPOSED CONDITIONS

- 9 COMBINATION CONCRETE CURB AND GUTTER, TYPE B-6.12 (MODIFIED)
- 10 COMBINATION CONCRETE CURB AND GUTTER, TYPE B-6.12
- 11 HOT-MIX ASPHALT SURFACE COURSE, MIX D, N70, (IL-9.5mm), 1 1/2"
- 12 LEVELING BINDER (MACHINE METHOD), N70, (IL-9.5mm) MINIMUM 3/4"
- 13 AGGREGATE BASE COURSE, TYPE B, 6"
- 14 BIAXIAL GEOGRID
- 15 PORTLAND CEMENT CONCRETE PAVEMENT, 10" (JOINTED)
- 16 PORTLAND CEMENT CONCRETE SIDEWALK, 5"
- 17 TOPSOIL FURNISH AND PLACE, 4" SODDING

STRUCTURAL DESIGN TRAFFIC:	YEAR: 2020
PV: 10,925	SU: 287 MU: 287
ROAD/STREET CLASSIFICATION:	CLASS: II
PERCENT OF STRUCTURAL DESIGN TRAFFIC IN DESIGN LANE:	P: 50% S: 50% M: 50%
TRAFFIC FACTOR:	ACTUAL TF= 2.03 AC TYPE= N/A MINIMUM TF= NONE
PG GRADE:	BINDER= N/A SURFACE= N/A
SUBGRADE SUPPORT RATING:	SSR= POOR (STA. 3+50 TO 58+40)

Drawing file: W:\Projects\65050290 - St. Charles Rd\07_TYPICALS.dwg Dec 23, 2009 - 8:47am

HANCOCK ENGINEERING
Civil Engineers
Municipal Consultants
Established 1911

USER NAME	DESIGNED - MK/SBC	REVISED -
PLOT SCALE	DRAWN - MK/LEV	REVISED -
PLOT DATE	CHECKED - SBC/JGMV	REVISED -
	DATE - 11-30-09	REVISED - IDOT REV. 12-22-09

**STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION**

TYPICAL CROSS SECTIONS
SCALE: NONE SHEET NO. 1 OF 1 SHEETS STA. TO STA.

FAU. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
1397	09-00129-00-PV	COOK	103	8
CONTRACT NO. 63428			ILLINOIS FED. AID PROJECT M-9003 (267)	

PAVEMENT CORE SUMMARY				
CORE	STATION	ASPHALT	CONCRETE BASE	TOTAL
C-1	3+50	4.5	8	12.5
C-2	3+50	5.5	9.375	14.875
C-3	3+50	5.25	9	14.25
C-4	6+00	5	7.5	12.5
C-5	6+00	6.5	9.25	15.75
C-6	6+00	5.5	8.375	13.875
C-7	9+00	3.25	8	11.25
C-8	9+00	6.875	8.375	15.25
C-9	9+00	5.25	8.5	13.75
C-10	12+00	5.75	10	15.75
C-11	12+00	5.875	8	13.875
C-12	12+00	4.5	9	13.5
C-13	14+50	3.25	6.5	9.75
C-14	14+50	6.5	7.5	14
C-15	14+50	6.75	8.5	15.25
C-16	17+50	5	8	13
C-17	17+50	3	7.75	10.75
C-18	17+50	5.5	8.5	14
C-19	20+50	5	8.5	13.5
C-20	20+50	6.25	8	14.25
C-21	20+50	5	8	13
C-22	23+50	5.25	9.25	14.5
C-23	23+50	5.75	8.625	14.375
C-24	23+50	4.75	7.875	12.625
C-25	26+50	3	9	12
C-26	26+50	6	9	15
C-27	26+50	6	8.25	14.25
C-28	29+00	16	0	16
C-29	29+00	6	8	14
C-30	29+25	3.75	7.75	11.5
C-31	32+00	4.25	8	12.25
C-32	32+00	6	8.25	14.25
C-33	31+80	4.375	8.875	13.25
C-34	35+00	5.75	8	13.75

PAVEMENT CORE SUMMARY				
CORE	STATION	ASPHALT	CONCRETE BASE	TOTAL
C-35	35+00	6	8.375	14.375
C-36	35+00	4.75	8.5	13.25
C-37	38+00	4	5.75	9.75
C-38	38+00	5.75	8.125	13.875
C-39	38+00	5.5	8.5	14
C-40	40+50	4.5	8.5	13
C-41	40+50	6	8.25	14.25
C-42	40+50	5	8	13
C-43	43+50	4	8	12
C-44	43+50	6.25	8.375	14.625
C-45	43+50	5.5	8.5	14
C-46	46+50	5.5	7.25	12.75
C-47	46+50	6.125	8.75	14.875
C-48	46+34	4	8.5	12.5
C-49	49+50	4.125	6.5	10.625
C-50	49+50	5.25	7	12.25
C-51	49+50	6.625	8.75	15.375
C-52	52+00	3.375	9.625	13
C-53	52+00	3.25	8.875	12.125
C-54	52+00	7.75	5.25	13
C-55	55+00	4	7.25	11.25
C-56	55+00	7	11	18
C-57	55+00	4.5	10	14.5
C-58	58+50	4.75	10.25	15
C-59	58+50	5	7.75	12.75
C-60	58+50	5.25	8.125	13.375

EARTHWORK TABLE						
LOCATION	REMOVAL & DISPOSAL MATERIAL (PGES) (CU YD)	EARTH EXCAVATION (CU YD)	TOTAL SUITABLE EXCAVATION (CU YD)	EXCAVATION TO BE USED IN EMBANKMENT (ADJ. FOR 15% SHRINKAGE) (CU YD)	EMBANKMENT (CU YD)	EARTHWORK BALANCE WASTE (+) OR SHORTAGE (-) (CU YD)
ST. CHARLES ROAD STA. 3+50 TO STA. 58+40	7,033	5,910	5,910	5,024	35	+4,989
9TH AVENUE (NORTH) STA. 8+26 TO STA. 10+45	298	130	130	111	8	+103
TOTALS	7,331	6,040	6,040	5,135	43	+5,092

**POROUS GRANULAR EMBANKMENT
SUBGRADE LOCATIONS PER SOIL REPORT**

LOCATION	NORTH SIDE		SOUTH SIDE	
	WIDTH	DEPTH	WIDTH	DEPTH
ST. CHARLES ROAD STA. 3+50 TO STA. 58+40	21.5'	0.75'	21.5'	0.75'

LOCATION	WEST SIDE		EAST SIDE	
	WIDTH	DEPTH	WIDTH	DEPTH
9TH AVENUE (NORTH) STA. 8+26 TO STA. 10+45	19.25'	0.75'	19.25'	0.75'

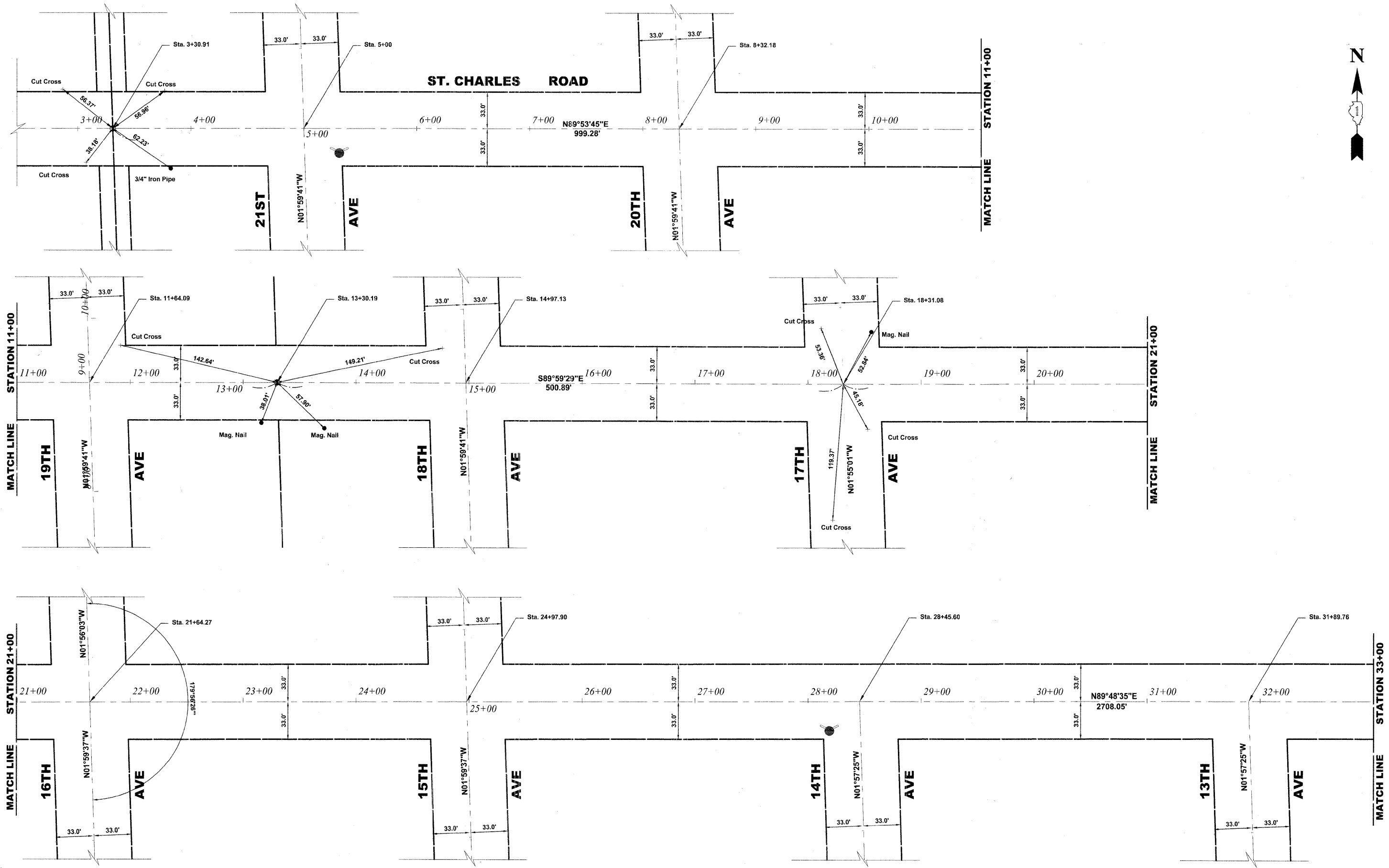
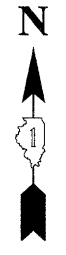
NOTE:

**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 A STATIC CONE PENETROMETER AND TREATED IN ACCORDANCE WITH ARTICLE 301.03 AND THE UNDERCUT GUIDELINES IN THE IDOT SUBGRADE STABILITY MANUAL. IF UNSTABLE AND/OR UNSUITABLE MATERIAL IS ENCOUNTERED, THE SOIL SHALL BE REMOVED AND REPLACED WITH PGES OR EMBANKMENT AS DETERMINED BY THE GEOTECHNICAL ENGINEER. 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.

NOTE:
ACTUAL LOCATIONS, WIDTHS,
AND DEPTHS TO BE DETERMINED
BY GEOTECHNICAL ENGINEER IN THE FIELD.

Drawing File: W:\Projects\56508290 - St. Charles Rd\07_TYPICALS.dwg Dec 23, 2009 - 8:54am

<p>HANCOCK ENGINEERING Civil Engineers Municipal Consultants Established 1911</p>	USER NAME -- PLOT SCALE -- PLOT DATE --	DESIGNED -- MK/SBC DRAWN -- MK/LEV CHECKED -- SBC/JGMV DATE -- 11-30-09	REVISED -- REVISED -- REVISED -- REVISED -- IDOT REV. 12-22-09	STATE OF ILLINOIS DEPARTMENT OF TRANSPORTATION	PAVEMENT CORES SUMMARY	F.A.U. RTE. 1397 SECTION 09-00129-00-PV COUNTY COOK TOTAL SHEETS 103 SHEET NO. 9	CONTRACT NO. 63428 FED. ROAD DIST. NO. 1 ILLINOIS FED. AID PROJECT M-9003 (267)
	SCALE: NONE SHEET NO. 1 OF 1 SHEETS STA. TO STA.		(BOOK NOS 1579 1583 1589) F.H.E. PROJECT NO. 565 08 29001				



Drawing file: W:\Projects\56508290 - St. Charles Rd\10_Alignment.dwg Dec 07, 2009 - 10:44am

HANCOCK ENGINEERING
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 Municipal Consultants
 Established 1911

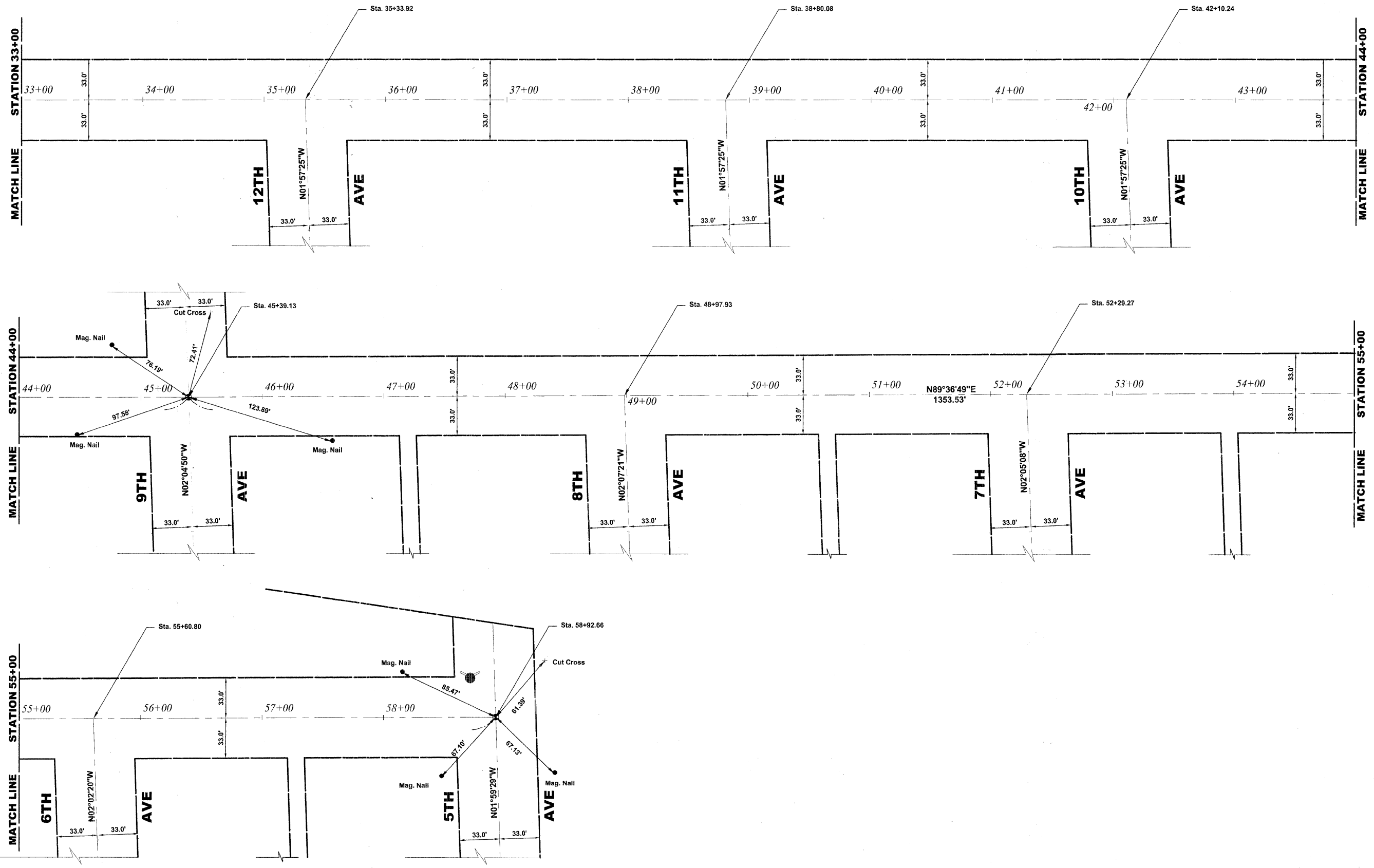
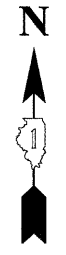
USER NAME -	DESIGNED - MK/SBC	REVISED -
PLOT SCALE -	DRAWN - MK/LEV	REVISED -
PLOT DATE -	CHECKED - SBC/JG/MV	REVISED -
	DATE - 11-30-09	REVISED -

**STATE OF ILLINOIS
 DEPARTMENT OF TRANSPORTATION**

**ST. CHARLES ROAD
 ALIGNMENT AND TIES**

SCALE: 1"=60' SHEET NO. 1 OF 2 SHEETS STA. 100+00.00 TO STA. 129+50

F.A.U. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
1397	09-00129-00-PV	COOK	103	10
CONTRACT NO. 63428				
FED. ROAD DIST. NO. 1 ILLINOIS FED. AID PROJECT M-9003 (267)				
E.H.E. PROJECT NO. 565-08-29001				



Drawing file: W:\Projects\56508290 - St. Charles Rd\10_Alignment.dwg Date: 07/20/09 10:44am

HANCOCK ENGINEERING
 Civil Engineers
 Municipal Consultants
 Established 1911

USER NAME -	DESIGNED - MK/SBC	REVISED -
PLOT SCALE -	DRAWN - MK/LEV	REVISED -
PLOT DATE -	CHECKED - SBC/JG/MV	REVISED -
	DATE - 11-30-09	REVISED -

**STATE OF ILLINOIS
 DEPARTMENT OF TRANSPORTATION**

**ST. CHARLES ROAD
 ALIGNMENT AND TIES**

SCALE: 1"=60' SHEET NO. 2 OF 2 SHEETS STA. 129+50 TO STA. 155+61.75

F.A.U. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
1397	09-00129-00-PV	COOK	103	11
CONTRACT NO. 63428			FED. ROAD DIST. NO. 1 ILLINOIS FED. AID PROJECT M-9003 (267)	

(BOOK NOS. 1579, 1583, 1589) E.H.E PROJECT NO. 565-08-29001

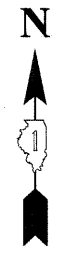
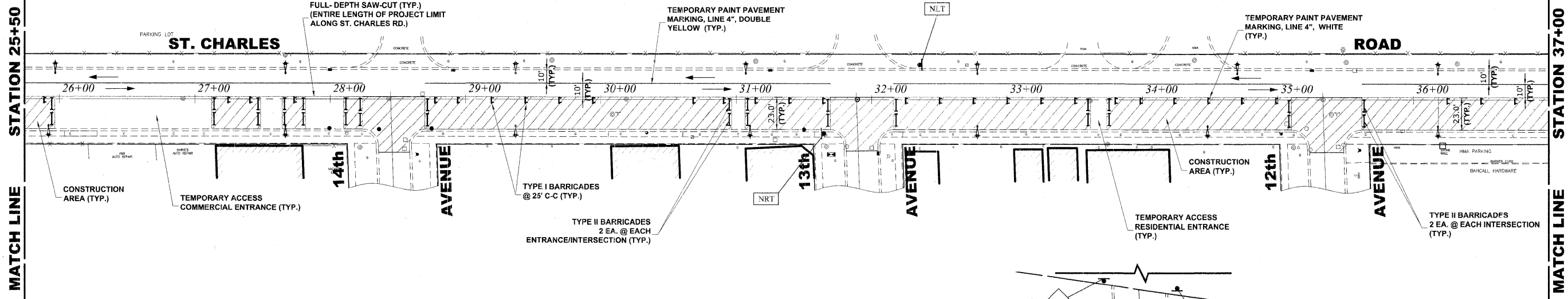
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JOB-SITE SIGNING CODES AND SIZES

SYMBOL	SIGN	CODE & SIZE
ERW		G20-2a 36"x18"
NLT		R3-2 24"x24"
NRT		R3-2 24"x24"
RC T T T		R11-4 60"x30"
SCR		M4-8 36"x12"

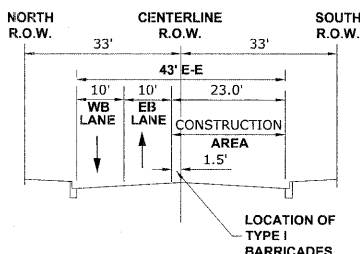
JOB-SITE SIGNING CODES AND SIZES

SYMBOL	SIGN	CODE & SIZE
		W1-4 30"x30"
RLE		W4-2 36"x36"
LLE		W4-2 36"x36"
BW		W6-3 30"x30"
RWA		W20-1 36"x36"



STAGE I CONSTRUCTION

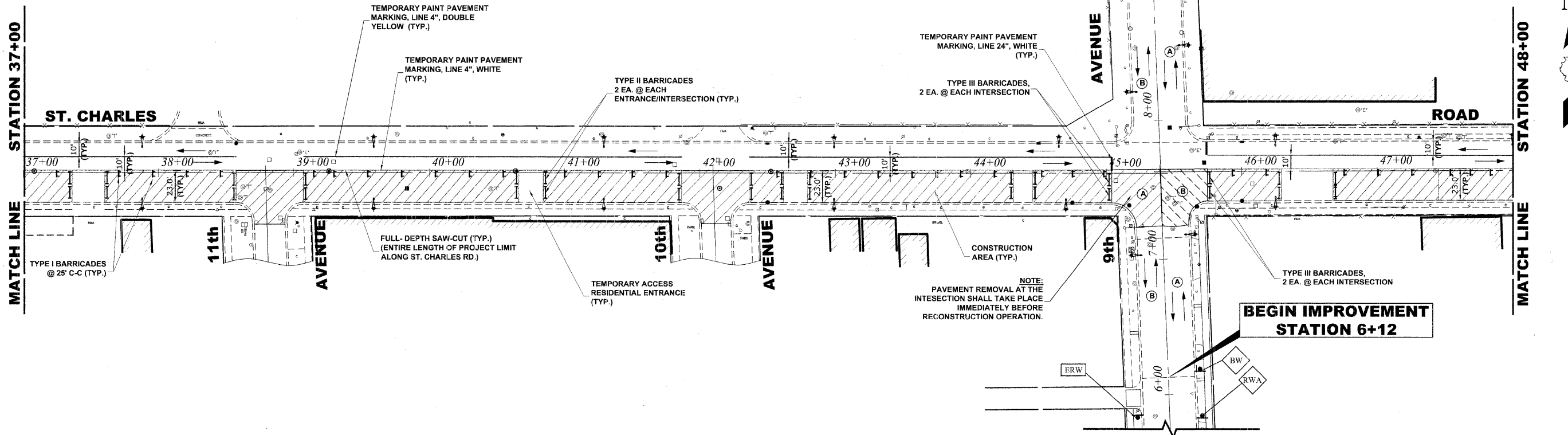
1. WORK DURING THIS STAGE SHALL CONSIST OF THE REMOVAL AND REPLACEMENT OF UTILITIES AND ROADWAY AS INDICATED ON THE PROPOSED PAVEMENT AND UTILITY PLANS ALONG SOUTH SIDE OF ST. CHARLES RD.
2. ALL THE PRIVATE AND COMMERCIAL DRIVEWAYS TO BE OPENED ALL THE TIME FOR TRAFFIC OR AS DIRECTED BY THE ENGINEER.
3. IDOT STANDARD 701501-05 SHALL BE USED TO ESTABLISH TRAFFIC CONTROL AND PROTECTION NECESSARY FOR SAW CUTTING, THE REMOVAL OF EXISTING PAVEMENT, EARTH EXCAVATION AS NECESSARY AND PERFORMING ALL THE PROPOSED PAVEMENT WORK ALONG SOUTH SIDE OF ST. CHARLES RD.
4. INTERSECTIONS ARE TO REMAIN OPEN AT ALL TIMES, PAID FOR AS TEMPORARY ACCESS (ROAD), EXCEPT FOR PREPARATION, POURING AND CURING OF NEW PAVEMENT. THE CONTRACTOR MUST STAGGER INTERSECTIONS THAT ARE CLOSED SUCH THAT NO TWO INTERSECTIONS ADJACENT TO EACH OTHER ARE CLOSED AT THE SAME TIME.



TYPICAL SECTION DURING STAGE I CONSTRUCTION

LEGEND

- CONSTRUCTION WORK ZONE
- DIRECTION OF TRAFFIC FLOW



END IMPROVEMENT STATION 10+45

BEGIN IMPROVEMENT STATION 6+12

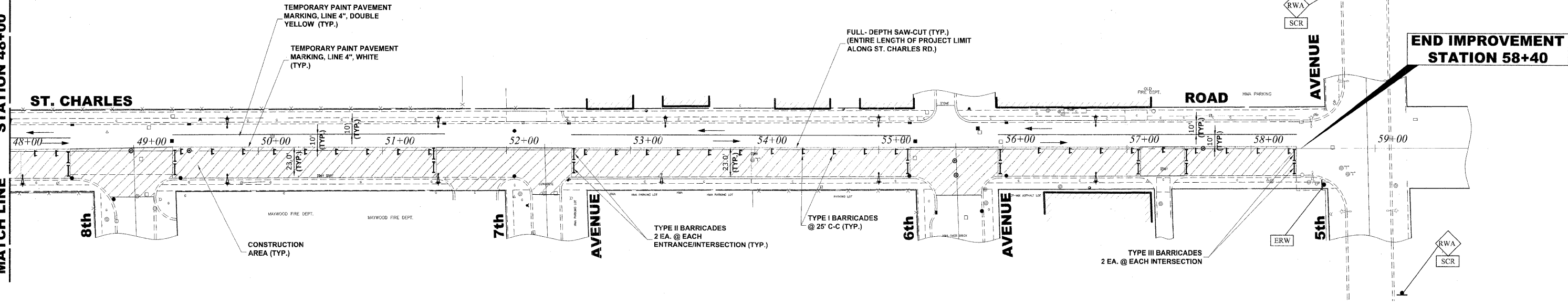
NOTE:
PAVEMENT REMOVAL AT THE INTERSECTION SHALL TAKE PLACE IMMEDIATELY BEFORE RECONSTRUCTION OPERATION.

Drawing file: W:\Projects\56508290 - St. Charles Rd\12_St. Charles Staging.dwg Dec 04, 2009 1:49pm

<p>HANCOCK ENGINEERING Civil Engineers Municipal Consultants Established 1911</p>	USER NAME -	DESIGNED - MK/SBC	REVISED -	STATE OF ILLINOIS DEPARTMENT OF TRANSPORTATION	MAINTENANCE OF TRAFFIC PLAN STAGE I CONSTRUCTION	F.A.U. RTE. 1397	SECTION 09-00129-00-PV	COUNTY COOK	TOTAL SHEETS 103	SHEET NO. 14		
	PLOT SCALE -	CHECKED - SBC/JG/MV	REVISED -			SCALE: 1" = 40'		SHEET NO. 2 OF 3 SHEETS		STA. 25+50 TO STA. 48+00		CONTRACT NO. 63428
	PLOT DATE -	DATE - 11-30-09	REVISED -			FED. ROAD DIST. NO. 1 ILLINOIS		FED. AID PROJECT M-9003 (267)		E.H.E PROJECT NO. 565-08-29001		

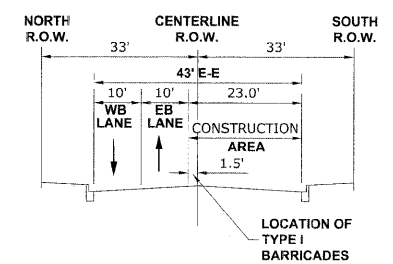


MATCH LINE STATION 48+00



STAGE I CONSTRUCTION

1. WORK DURING THIS STAGE SHALL CONSIST OF THE REMOVAL AND REPLACEMENT OF UTILITIES AND ROADWAY AS INDICATED ON THE PROPOSED PAVEMENT AND UTILITY PLANS ALONG SOUTH SIDE OF ST. CHARLES RD.
2. ALL THE PRIVATE AND COMMERCIAL DRIVEWAYS TO BE OPENED ALL THE TIME FOR TRAFFIC OR AS DIRECTED BY THE ENGINEER.
3. IDOT STANDARD 701501-05 SHALL BE USED TO ESTABLISH TRAFFIC CONTROL AND PROTECTION NECESSARY FOR SAW CUTTING, THE REMOVAL OF EXISTING PAVEMENT, EARTH EXCAVATION AS NECESSARY AND PERFORMING ALL THE PROPOSED PAVEMENT WORK ALONG SOUTH SIDE OF ST. CHARLES RD.
4. INTERSECTIONS ARE TO REMAIN OPEN AT ALL TIMES, PAID FOR AS TEMPORARY ACCESS (ROAD), EXCEPT FOR PREPARATION, POURING AND CURING OF NEW PAVEMENT. THE CONTRACTOR MUST STAGGER INTERSECTIONS THAT ARE CLOSED SUCH THAT NO TWO INTERSECTIONS ADJACENT TO EACH OTHER ARE CLOSED AT THE SAME TIME.



TYPICAL SECTION DURING STAGE I CONSTRUCTION

LEGEND

CONSTRUCTION WORK ZONE

DIRECTION OF TRAFFIC FLOW

HANCOCK ENGINEERING
 Civil Engineers
 Municipal Consultants
 Established 1911

9333 Belmont Road
 Westchester, Illinois 60591-1790
 Phone: 708.942.4100
 Fax: 708.942.1222

USER NAME -	DESIGNED - MK/SBC	REVISED -
	DRAWN - MK/LEV	REVISED -
PLOT SCALE -	CHECKED - SBC/JG/MV	REVISED -
PLOT DATE -	DATE - 11-30-09	REVISED -

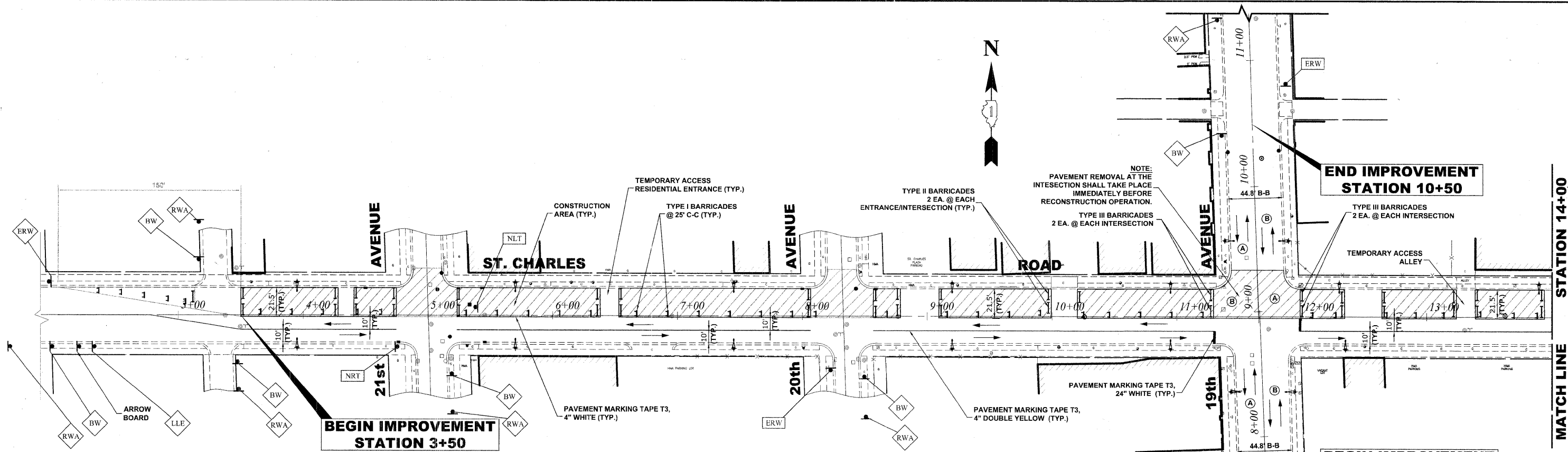
**STATE OF ILLINOIS
 DEPARTMENT OF TRANSPORTATION**

**MAINTENANCE OF TRAFFIC PLAN
 STAGE I CONSTRUCTION**

SCALE: 1" = 40' SHEET NO. 3 OF 3 SHEETS STA. 48+00 TO STA. 58+95

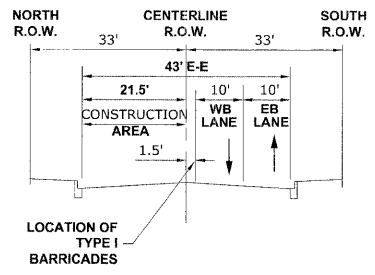
F.A.U. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
1397	09-00129-00-PV	COOK	103	15
CONTRACT NO. 63428			FED. ROAD DIST. NO. 1 ILLINOIS FED. AID PROJECT M-9003 (267)	
(BOOK NOS. 1579, 1583, 1589) E.H.E PROJECT NO. 565-08-29001				

Drawing file: W:\Projects\56508290 - St. Charles Rd\12_St. Charles Staging.dwg Dec 04, 2009 1:49pm



STAGE II CONSTRUCTION

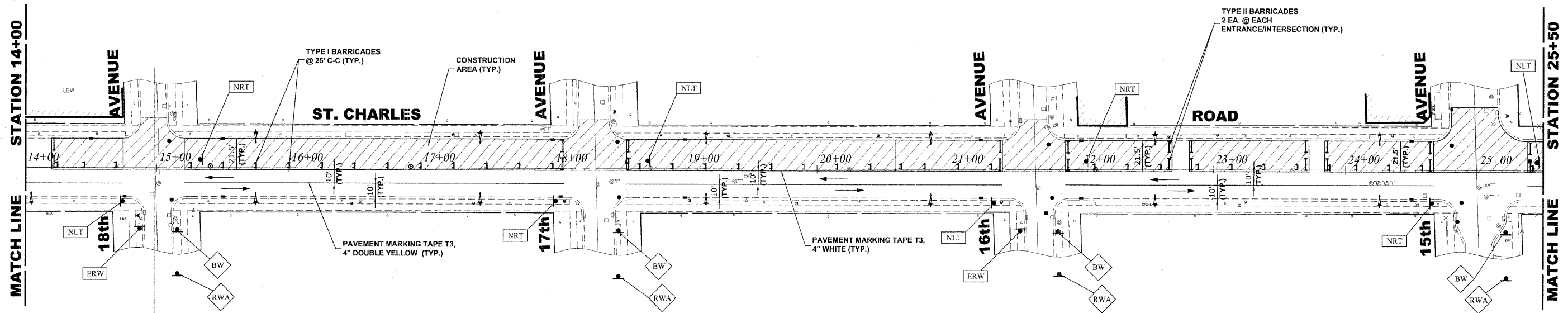
1. WORK DURING THIS STAGE SHALL CONSIST OF THE REMOVAL AND REPLACEMENT OF UTILITIES AND ROADWAY AS INDICATED ON THE PROPOSED PAVEMENT AND UTILITY PLANS ALONG NORTH SIDE OF ST. CHARLES RD.
2. ALL THE PRIVATE AND COMMERCIAL DRIVEWAYS TO BE OPENED ALL THE TIME FOR TRAFFIC OR AS DIRECTED BY THE ENGINEER.
3. IDOT STANDARD 701501-05 SHALL BE USED TO ESTABLISH TRAFFIC CONTROL AND PROTECTION NECESSARY FOR SAW CUTTING, THE REMOVAL OF EXISTING PAVEMENT, EARTH EXCAVATION AS NECESSARY AND PERFORMING ALL THE PROPOSED PAVEMENT WORK ALONG NORTH SIDE OF ST. CHARLES RD.
4. INTERSECTIONS ARE TO REMAIN OPEN AT ALL TIMES, PAID FOR AS TEMPORARY ACCESS (ROAD), EXCEPT FOR PREPARATION, POURING AND CURING OF NEW PAVEMENT. THE CONTRACTOR MUST STAGGER INTERSECTIONS THAT ARE CLOSED SUCH THAT NO TWO INTERSECTIONS ADJACENT TO EACH OTHER ARE CLOSED AT THE SAME TIME.



TYPICAL SECTION DURING STAGE II CONSTRUCTION

LEGEND

- CONSTRUCTION WORK ZONE
- DIRECTION OF TRAFFIC FLOW



USER NAME	DESIGNED - MK/SBC	REVISED -
PLOT SCALE	DRAWN - MK/LEV	REVISED -
PLOT DATE	CHECKED - SBC/JG/MM	REVISED -
	DATE - 11-30-09	REVISED -

STATE OF ILLINOIS DEPARTMENT OF TRANSPORTATION

MAINTENANCE OF TRAFFIC PLAN STAGE II CONSTRUCTION

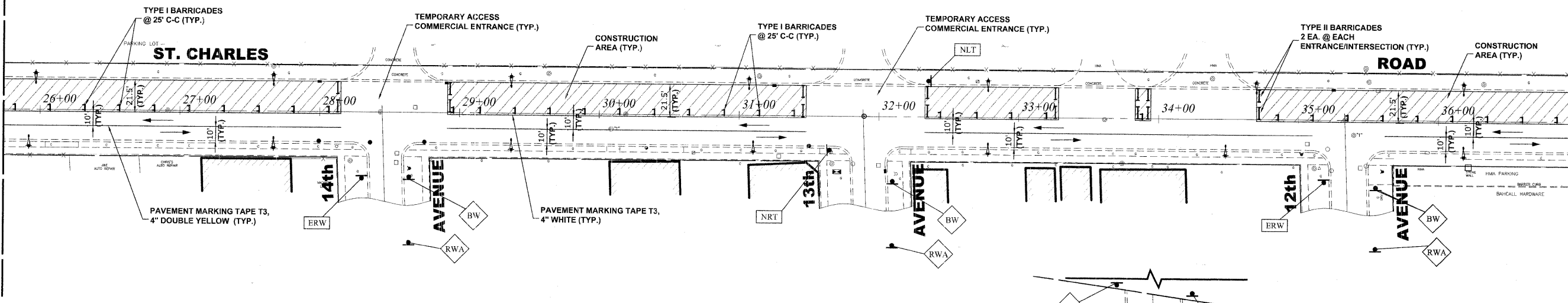
SCALE: 1" = 40' SHEET NO. 1 OF 3 SHEETS STA. 3+50 TO STA. 25+50

F.A.U. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
1397	09-00129-00-PV	COOK	103	16
FED. ROAD DIST. NO. 1 ILLINOIS			FED. AID PROJECT M-9003 (267)	
			CONTRACT NO. 63428	
			E.H.E PROJECT NO. 565-08-29001	

Drawing file: W:\Projects\56508290 - St. Charles Rd\12_St. Charles Staging.dwg Dec 04, 2009 - 1:49pm

STATION 25+50
MATCH LINE

MATCH LINE
STATION 37+00

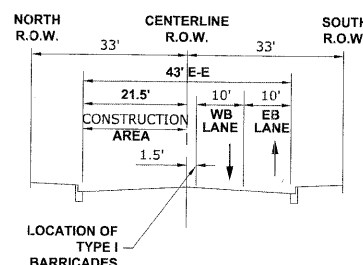


STAGE II CONSTRUCTION

1. WORK DURING THIS STAGE SHALL CONSIST OF THE REMOVAL AND REPLACEMENT OF UTILITIES AND ROADWAY AS INDICATED ON THE PROPOSED PAVEMENT AND UTILITY PLANS ALONG NORTH SIDE OF ST. CHARLES RD.
2. ALL THE PRIVATE AND COMMERCIAL DRIVEWAYS TO BE OPENED ALL THE TIME FOR TRAFFIC OR AS DIRECTED BY THE ENGINEER.
3. IDOT STANDARD 701501-05 SHALL BE USED TO ESTABLISH TRAFFIC CONTROL AND PROTECTION NECESSARY FOR SAW CUTTING, THE REMOVAL OF EXISTING PAVEMENT, EARTH EXCAVATION AS NECESSARY AND PERFORMING ALL THE PROPOSED PAVEMENT WORK ALONG NORTH SIDE OF ST. CHARLES RD.
4. INTERSECTIONS ARE TO REMAIN OPEN AT ALL TIMES, PAID FOR AS TEMPORARY ACCESS (ROAD), EXCEPT FOR PREPARATION, POURING AND CURING OF NEW PAVEMENT. THE CONTRACTOR MUST STAGGER INTERSECTIONS THAT ARE CLOSED SUCH THAT NO TWO INTERSECTIONS ADJACENT TO EACH OTHER ARE CLOSED AT THE SAME TIME.

LEGEND

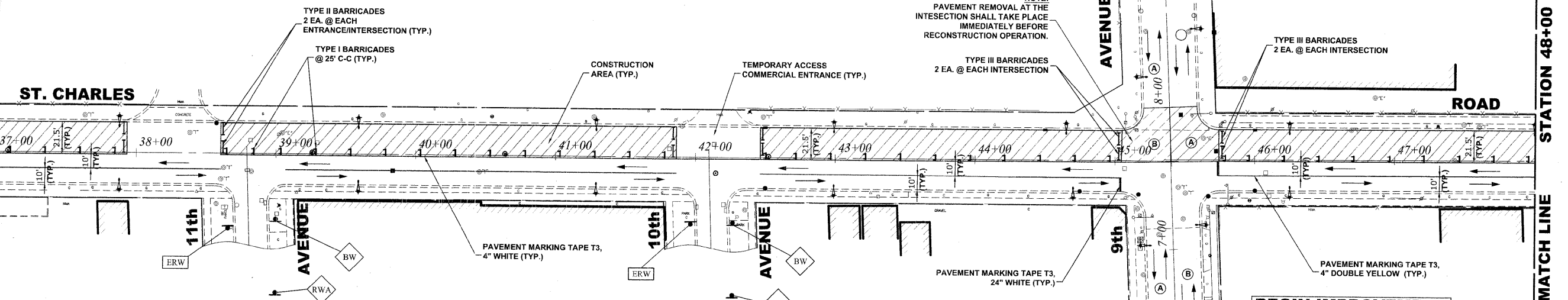
- CONSTRUCTION WORK ZONE
- DIRECTION OF TRAFFIC FLOW



LOCATION OF TYPE I BARRICADES
TYPICAL SECTION DURING STAGE II CONSTRUCTION

STATION 37+00
MATCH LINE

MATCH LINE
STATION 48+00



NOTE:
PAVEMENT REMOVAL AT THE INTERSECTION SHALL TAKE PLACE IMMEDIATELY BEFORE RECONSTRUCTION OPERATION.

BEGIN IMPROVEMENT STATION 6+12

END IMPROVEMENT STATION 10+45



USER NAME	DESIGNED - MK/SBC	REVISED -
PLOT SCALE	DRAWN - MK/LEV	REVISED -
PLOT DATE	CHECKED - SBC/JGMV	REVISED -
	DATE - 11-30-09	REVISED -

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

MAINTENANCE OF TRAFFIC PLAN
STAGE II CONSTRUCTION

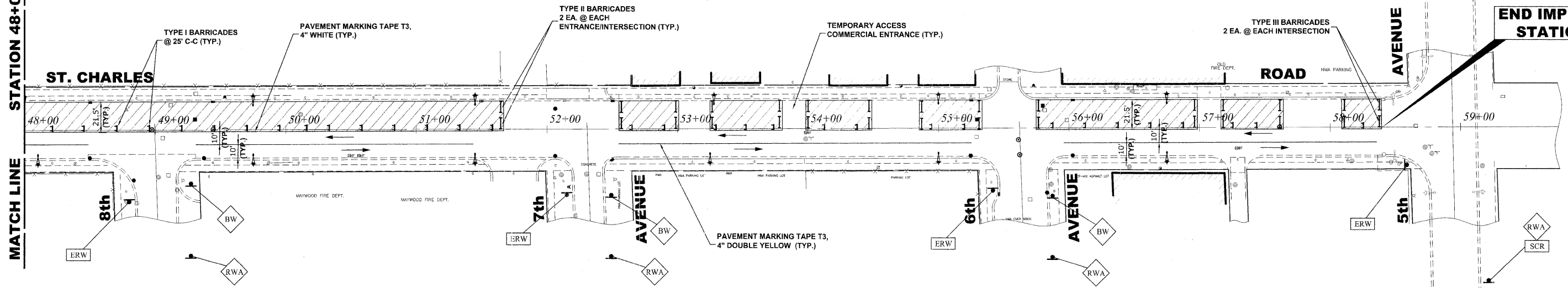
SCALE: 1" = 40' SHEET NO. 2 OF 3 SHEETS STA. 25+50 TO STA. 48+00

F.A.U. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
1397	09-00129-00-PV	COOK	103	17
FED. ROAD DIST. NO. 1 ILLINOIS FED. AID PROJECT M-9003 (267)			CONTRACT NO. 63428	
(BOOK NOS. 1579, 1583, 1589) E.H.E PROJECT NO. 565-09-29001				



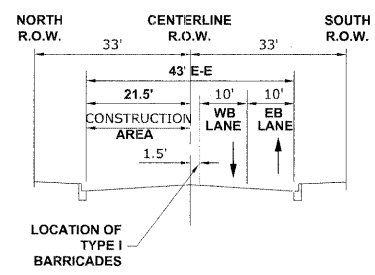
MATCH LINE STATION 48+00

END IMPROVEMENT STATION 58+40



STAGE II CONSTRUCTION

1. WORK DURING THIS STAGE SHALL CONSIST OF THE REMOVAL AND REPLACEMENT OF UTILITIES AND ROADWAY AS INDICATED ON THE PROPOSED PAVEMENT AND UTILITY PLANS ALONG NORTH SIDE OF ST. CHARLES RD.
2. ALL THE PRIVATE AND COMMERCIAL DRIVEWAYS TO BE OPENED ALL THE TIME FOR TRAFFIC OR AS DIRECTED BY THE ENGINEER.
3. IDOT STANDARD 701501-05 SHALL BE USED TO ESTABLISH TRAFFIC CONTROL AND PROTECTION NECESSARY FOR SAW CUTTING, THE REMOVAL OF EXISTING PAVEMENT, EARTH EXCAVATION AS NECESSARY AND PERFORMING ALL THE PROPOSED PAVEMENT WORK ALONG NORTH SIDE OF ST. CHARLES RD.
4. INTERSECTIONS ARE TO REMAIN OPEN AT ALL TIMES, PAID FOR AS TEMPORARY ACCESS (ROAD), EXCEPT FOR PREPARATION, POURING AND CURING OF NEW PAVEMENT. THE CONTRACTOR MUST STAGGER INTERSECTIONS THAT ARE CLOSED SUCH THAT NO TWO INTERSECTIONS ADJACENT TO EACH OTHER ARE CLOSED AT THE SAME TIME.



TYPICAL SECTION DURING STAGE II CONSTRUCTION

LEGEND

- CONSTRUCTION WORK ZONE
- DIRECTION OF TRAFFIC FLOW

Drawing file: W:\Projects\55502230 - St. Charles Rd\12...St. Charles Staging.dwg Dec 04, 2009 - 1:49pm



USER NAME -	DESIGNED - MK/SBC	REVISED -
	DRAWN - MK/LEV	REVISED -
PLOT SCALE -	CHECKED - SBC/JG/MV	REVISED -
PLOT DATE -	DATE - 11-30-09	REVISED -

**STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION**

**MAINTENANCE OF TRAFFIC PLAN
STAGE II CONSTRUCTION**

SCALE: 1" = 40' SHEET NO. 3 OF 3 SHEETS STA. 48+00 TO STA. 58+40

F.A.U. R.T.E. NO.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
1397	09-00129-00-PV	COOK	103	18
CONTRACT NO. 63428				
FED. ROAD DIST. NO. 1 ILLINOIS FED. AID PROJECT M-9003 (267)				
(BOOK NOS. 1579, 1583, 1589) E.H.E PROJECT NO. 565-08-29001				

Drawing file: W:\Projects\36508290 - St. Charles Rd\19_DETOUTR_SIGNING.dwg Nov 30, 2009 - 3:14pm

LEGEND OF SYMBOLS		
SYMBOL	DESCRIPTION	CODE & SIZE
		W20-3 48"x48"
		W20-2 48"x48"
		R11-4 60"x30"
		R11-4 60"x30"
		M3-1 24"x12"
		M3-1 24"x12"
		M4-8 36"x12"
		M4-8 24"x18"
		M4-9 30"x24"
		M4-9 30"x24"
		M4-9 30"x24"

LEGEND OF SYMBOLS		
SYMBOL	DESCRIPTION	CODE & SIZE
		M4-9R 24"x30"
		M4-9L 24"x30"
		M4-10 48"x18"
		M4-10 48"x18"

NOTE:
 CONTRACTOR TO NOTIFY IDOT AHEAD OF TRAFFIC MAINTENANCE (842)705-4470, SEVENTY-TWO HOURS IN ADVANCE OF SETTING UP DETOUR ROUTE.

HANCOCK ENGINEERING
 Civil Engineers
 Municipal Consultants
 Established 1911

USER NAME --	DESIGNED -- MK/SBC	REVISED --
	DRAWN -- MK/LEV	REVISED --
PLOT SCALE --	CHECKED -- SBC/JG/MV	REVISED --
PLOT DATE --	DATE -- 11-30-09	REVISED --

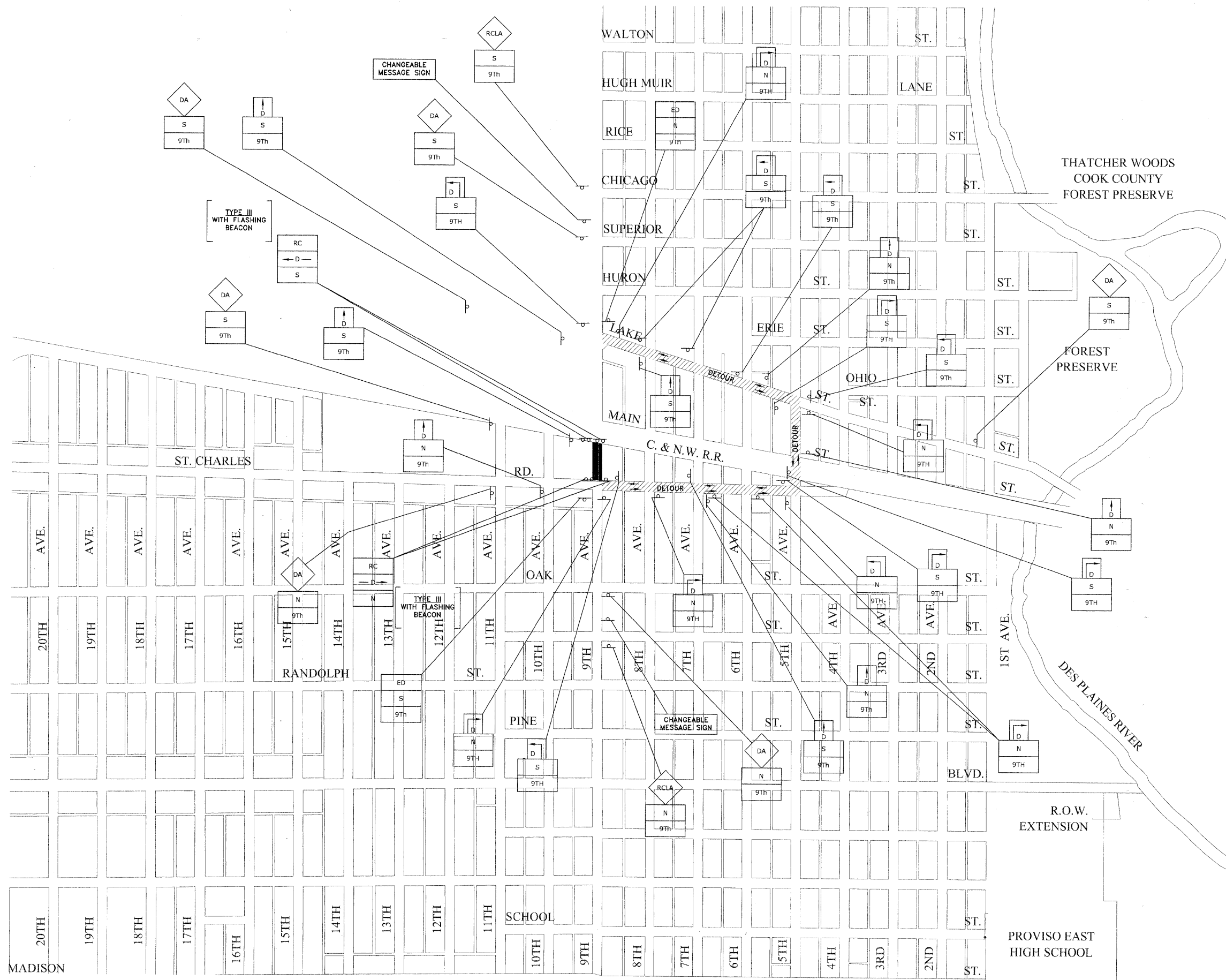
**STATE OF ILLINOIS
 DEPARTMENT OF TRANSPORTATION**

DETOUR SIGNING LEGEND

SCALE: NONE SHEET NO. 1 OF 1 SHEETS STA. TO STA.

F.A.U. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
1397	09-00129-00-PV	COOK	103	19
FED. ROAD DIST. NO. 1 ILLINOIS FED. AID PROJECT M-9003 (267)			CONTRACT NO. 63428	
(BOOK NOS. 1579, 1583, 1589) E.H.E PROJECT NO. 565-08-29001				

Drawing file: w:\Projects\56508290 - St. Charles Rd\19 DETOUR SIGNING.dwg Nov 30, 2009 - 3:14pm



NOTES:

1. ALL LOCAL DETOURS SHALL BE APPROVED BY THE ENGINEER AT LEAST 48 HOURS PRIOR TO INSTALLATION.
2. THE TWO (2) CHANGEABLE MESSAGE SIGNS ARE TO BE ONSITE AND FUNCTIONING FOR 2 WEEKS PRIOR TO 9TH AVENUE (NORTH) FROM ST. CHARLES RD. TO MAIN STREET BEING CLOSED.

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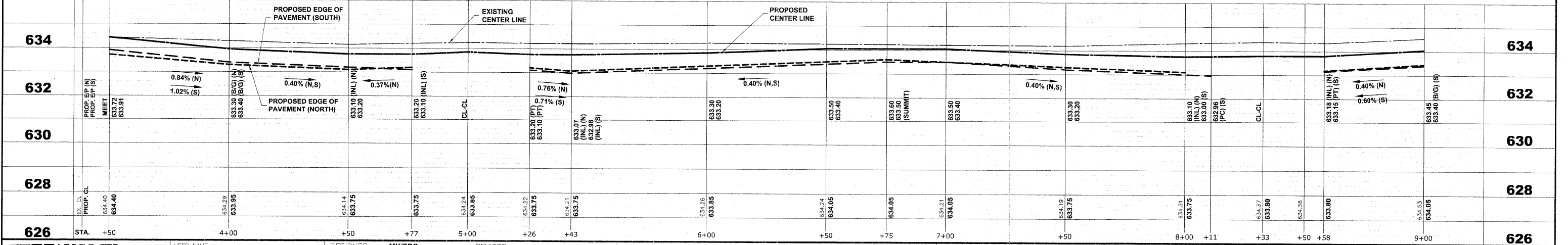
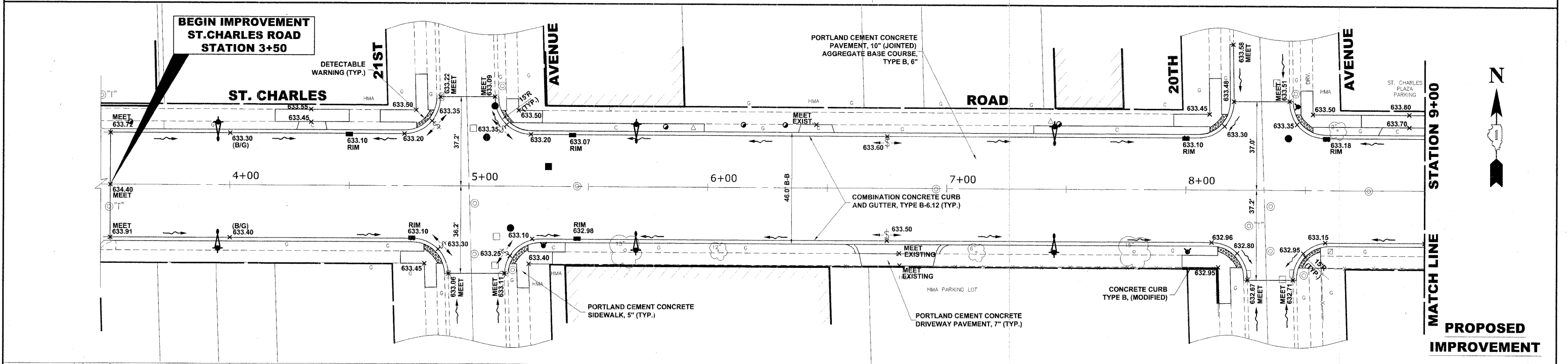
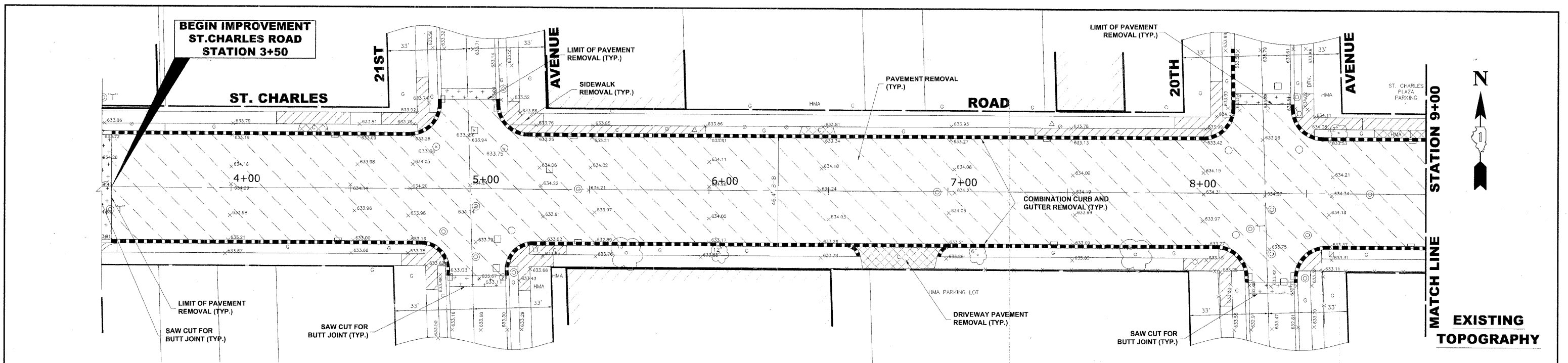
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PLOT SCALE --	DRAWN -- MK/LEV	REVISED --
PLOT DATE --	CHECKED -- SBC/JG/MV	REVISED --
	DATE -- 11-30-09	REVISED --

**STATE OF ILLINOIS
 DEPARTMENT OF TRANSPORTATION**

**DETOUR SIGNING PLAN FOR THROUGH TRAFFIC
 WHEN 9th AVENUE (NORTH) IS CLOSED
 FROM ST. CHARLES RD. TO MAIN STREET**

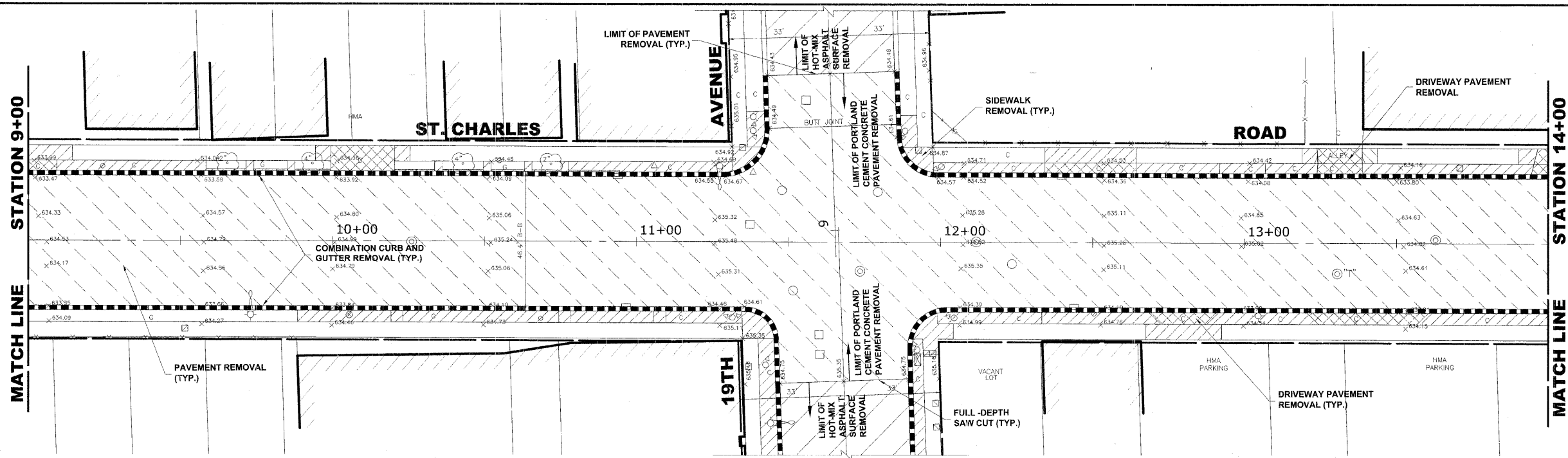
SCALE: NONE SHEET NO. 1 OF 1 SHEETS STA. TO STA.

F.A.U. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
1397	09-00129-00-PV	COOK	103	20
FED. ROAD DIST. NO. 1 ILLINOIS			FED. AID PROJECT M-9003 (267)	
(BOOK NOS. 1579, 1583, 1589) E.H.E PROJECT NO. 565-08-29001				

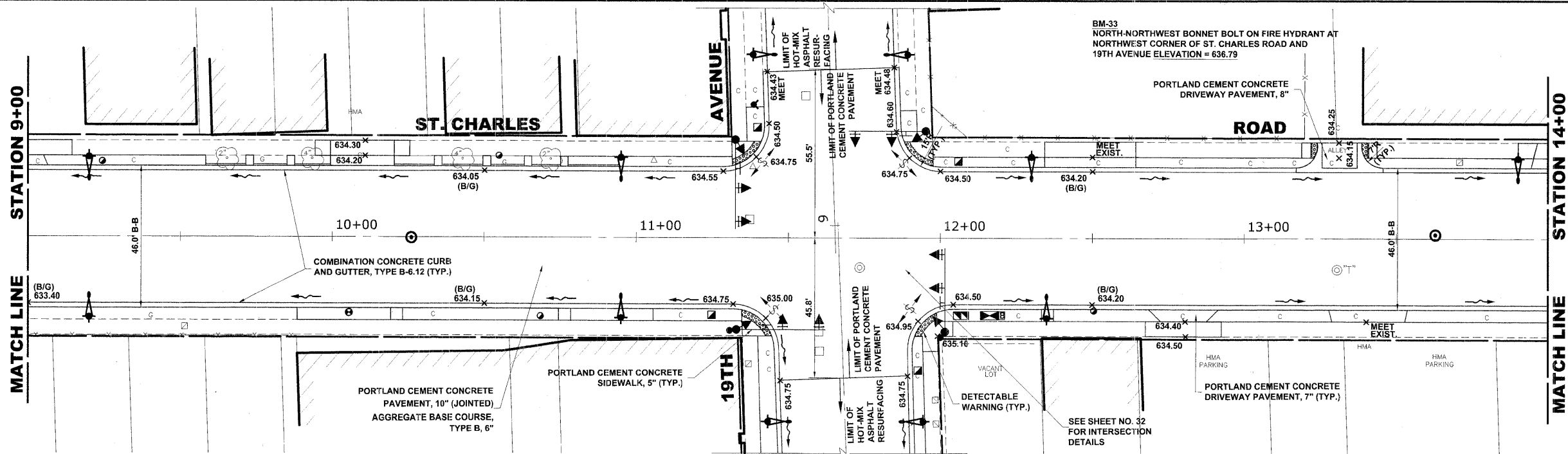


 HANCOCK ENGINEERING Civil Engineers Municipal Consultants Established 1911	USER NAME -- DESIGNED -- MK/SBC DRAWN -- MK/LEV CHECKED -- SBC/JGMV DATE -- 11-30-09	REVISED -- REVISED -- REVISED -- REVISED --	STATE OF ILLINOIS DEPARTMENT OF TRANSPORTATION		ST. CHARLES ROAD PAVING PLAN AND PROFILE		F.A.U. RITE. 1397 SECTION 09-00129-00-PV COUNTY COOK TOTAL SHEETS 103 SHEET NO. 21
	STA. +50 4+00 +50 +77 5+00 +26 +43 6+00 +50 +75 7+00 +50 8+00 +11 +33 +50 +58 9+00	SCALE: 1"=20'H./2'V. SHEET NO. 1 OF 11 SHEETS STA. 3+50 TO STA. 9+00		FED. ROAD DIST. NO. 1 ILLINOIS FED. AID PROJECT M-9003 (267) (BOOK NOS. 1579, 1583, 1589) E.H.E PROJECT NO. 565-08-29001		CONTRACT NO. 63428	

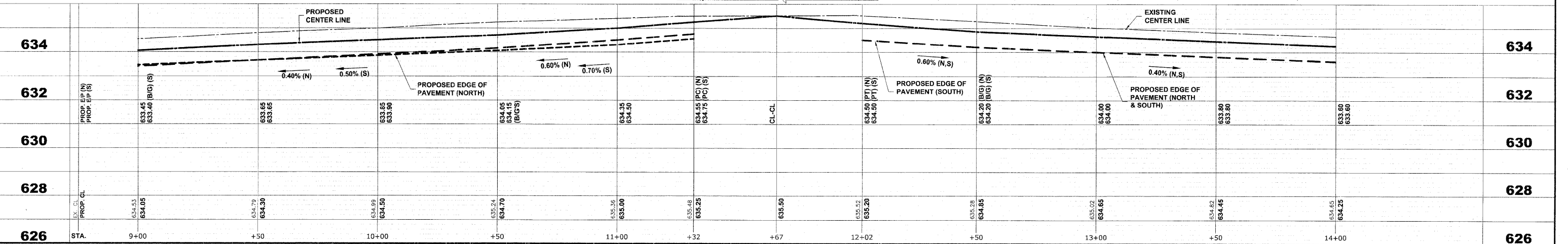
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EXISTING TOPOGRAPHY

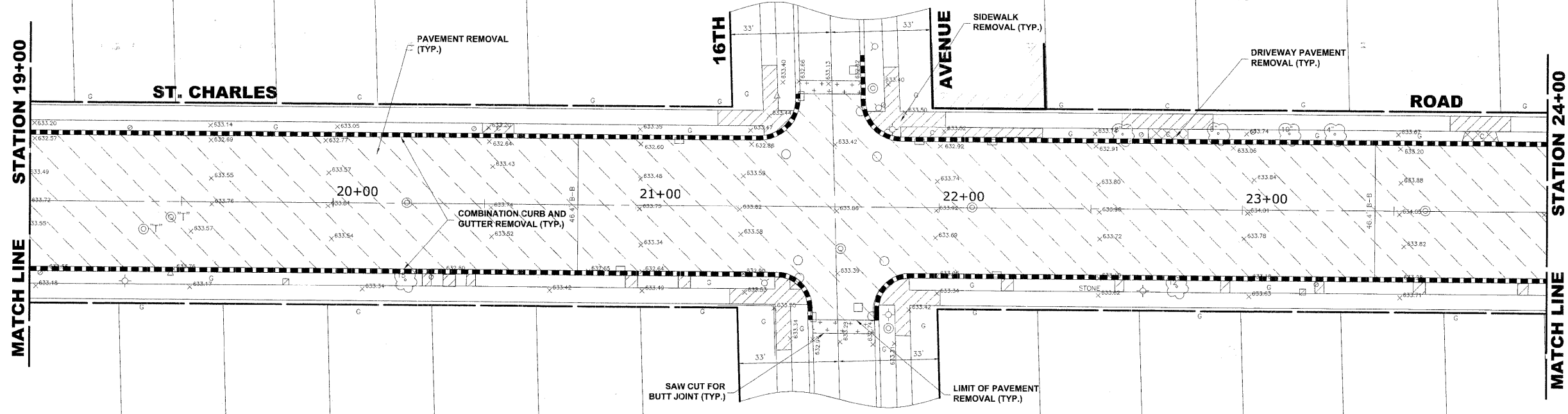


PROPOSED IMPROVEMENT

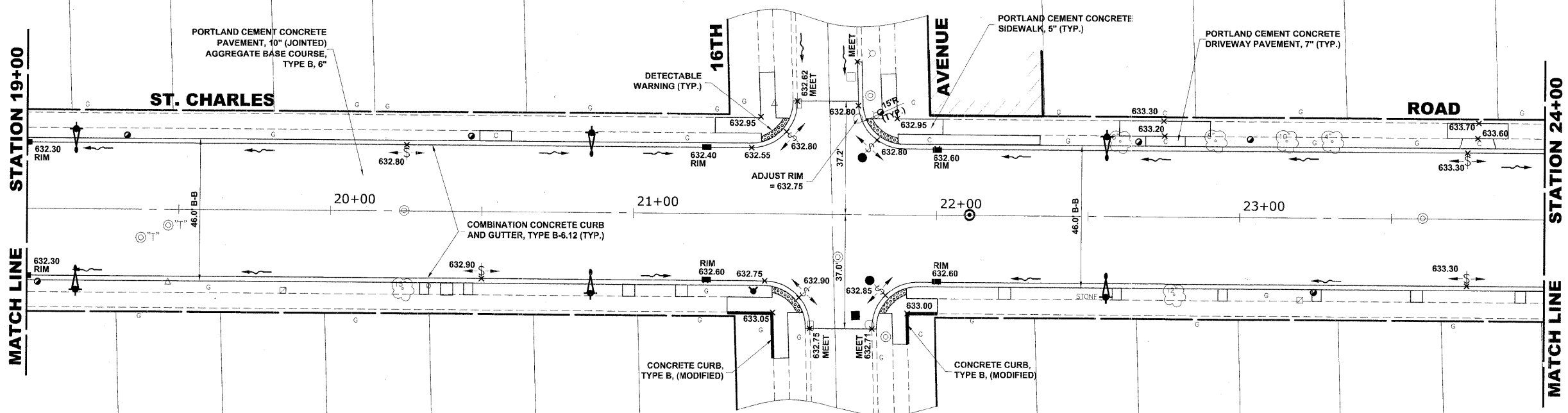
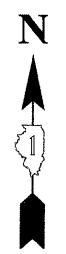


	USER NAME -	DESIGNED - MK/SBC	REVISED -	STATE OF ILLINOIS DEPARTMENT OF TRANSPORTATION	ST. CHARLES ROAD PAVING PLAN AND PROFILE	F.A.U. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
	PLOT SCALE -	CHECKED - SBC/JG/MV	REVISED -			1397	09-00129-00-PV	COOK	103	22
	PLOT DATE -	DATE - 11-30-09	REVISED -	SCALE: 1"=20'H/2V. SHEET NO. 2 OF 11 SHEETS STA. 9+00 TO STA. 14+00		FED. ROAD DIST. NO. 1 ILLINOIS FED. AID PROJECT M-9003 (267)		CONTRACT NO. 63428		

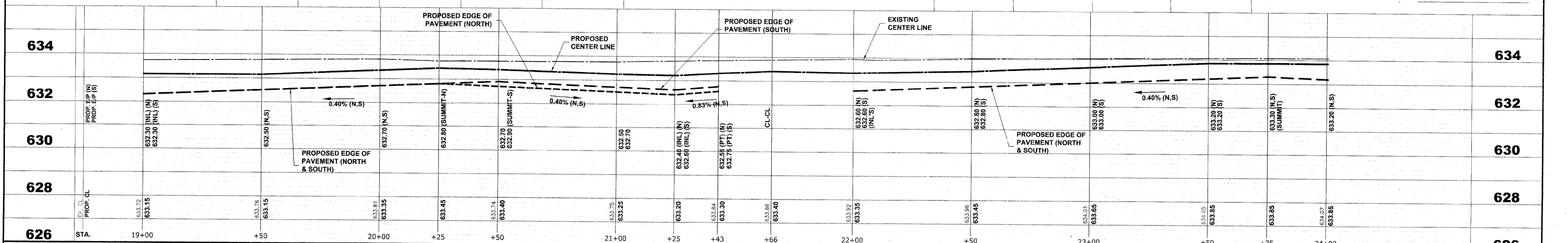
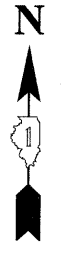
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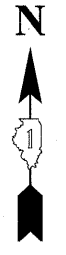
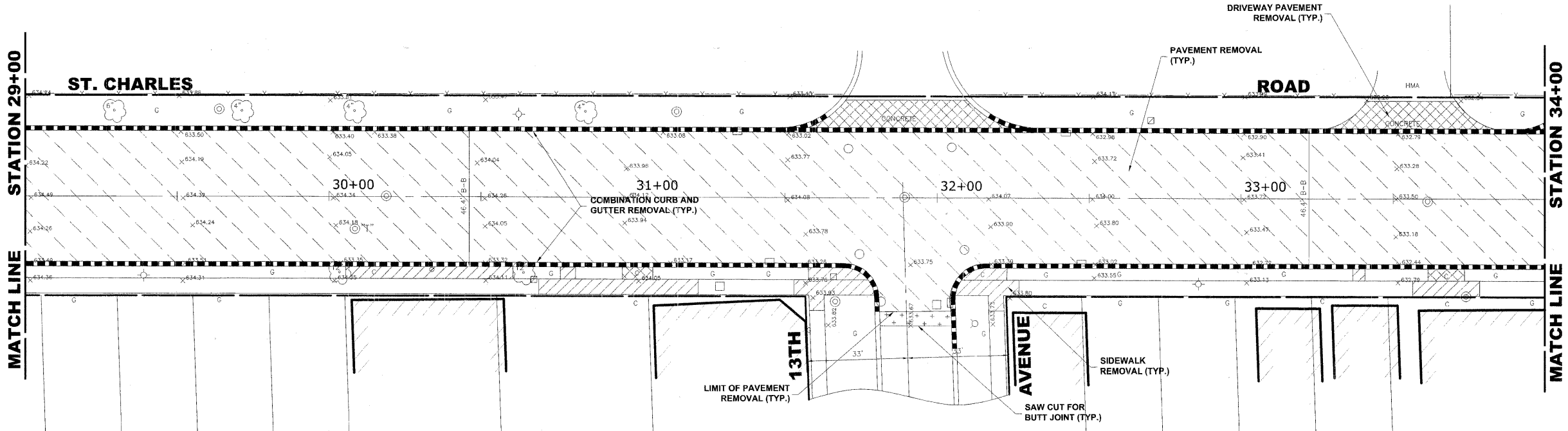


<p>HANCOCK ENGINEERING Civil Engineers Municipal Consultants Established 1911</p>	USER NAME —	DESIGNED — MK/SBC	REVISED —	STATE OF ILLINOIS DEPARTMENT OF TRANSPORTATION	ST. CHARLES ROAD PAVING PLAN AND PROFILE	F.A.U. RTE. —	SECTION —	COUNTY —	TOTAL SHEETS —	SHEET NO. —	
	PLOT SCALE —	DRAWN — MK/LEV	REVISED —			1397	09-00129-00-PV	COOK	103	24	
	PLOT DATE —	CHECKED — SBC/JG/MV	REVISED —			CONTRACT NO. 63428					
		DATE — 11-30-09	REVISED —			FED. ROAD DIST. NO. 1 ILLINOIS FED. AID PROJECT M-9003 (267)					

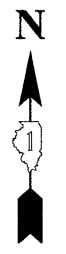
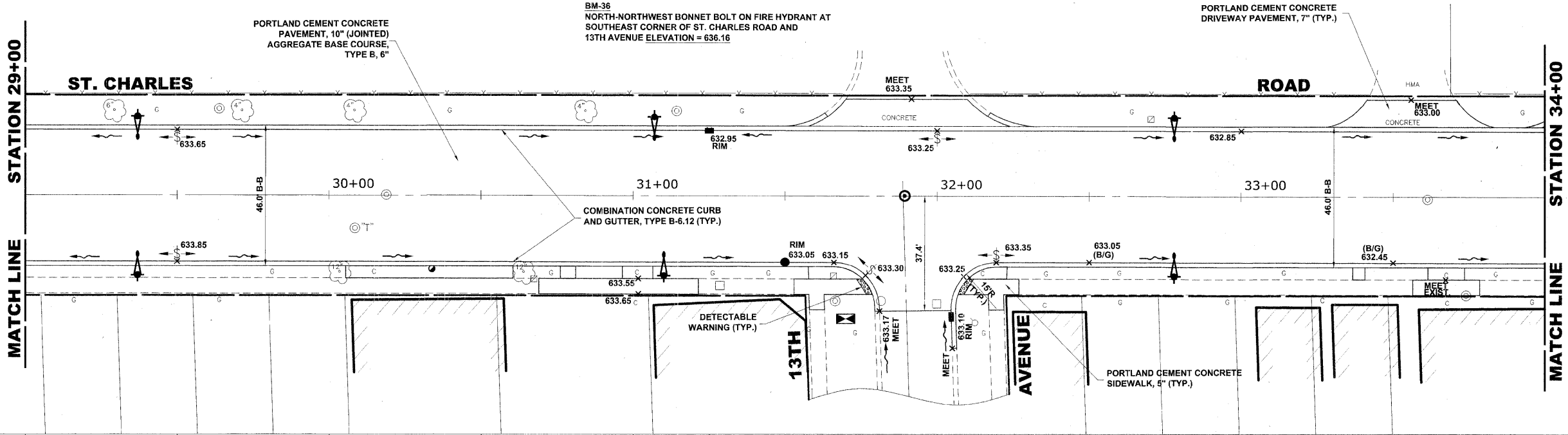
SCALE: 1"=20'H/2'V. SHEET NO. 4 OF 11 SHEETS STA. 19+00 TO STA. 24+00

(BOOK NOS. 1579, 1583, 1589) E.H.E PROJECT NO. 565-08-29001

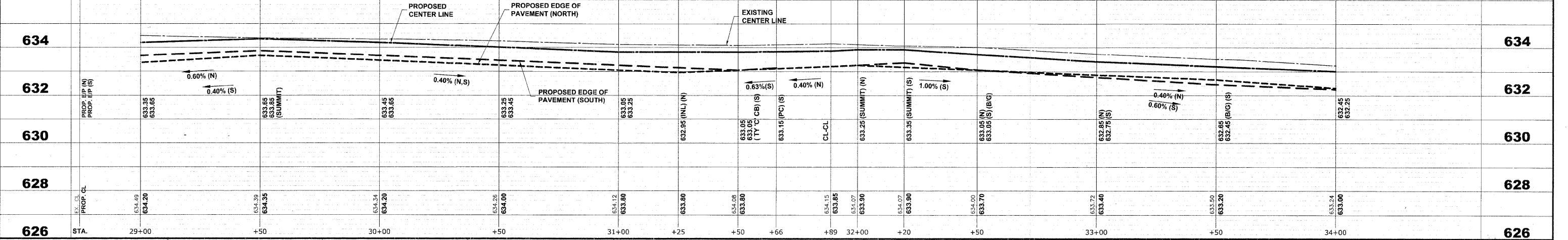
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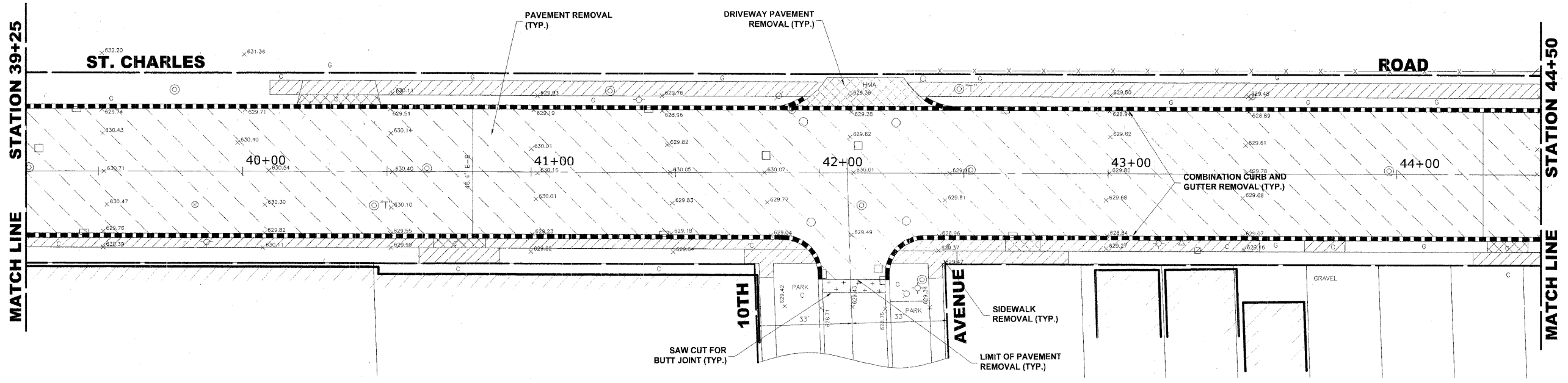


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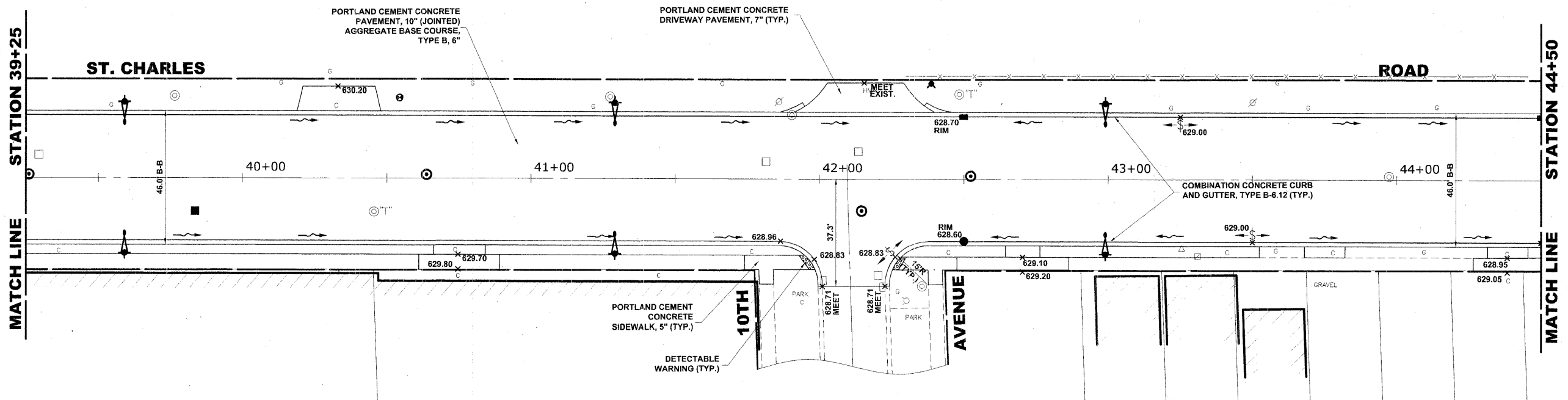


HANCOCK ENGINEERING Civil Engineers Municipal Consultants Established 1911	USER NAME - DESIGNED - MK/SBC DRAWN - MK/LEV CHECKED - SBC/JG/MV PLOT DATE -	REVISED - REVISED - REVISED - REVISED -	DATE - 11-30-09	STATE OF ILLINOIS DEPARTMENT OF TRANSPORTATION				ST. CHARLES ROAD PAVING PLAN AND PROFILE			P.A.U. RTE. 1397 SECTION 09-00129-00-PV COUNTY COOK CONTRACT NO. 63428	TOTAL SHEETS NO. 103 SHEET NO. 26 M-9003 (267)
	SCALE: 1"=20'H./2V. SHEET NO. 6 OF 11 SHEETS STA. 29+00 TO STA. 34+00 FED. ROAD DIST. NO. 1 ILLINOIS FED. AID PROJECT M-9003 (267)	(BOOK NOS. 1579, 1583, 1589) E.H.E. PROJECT NO. 565-08-29001										

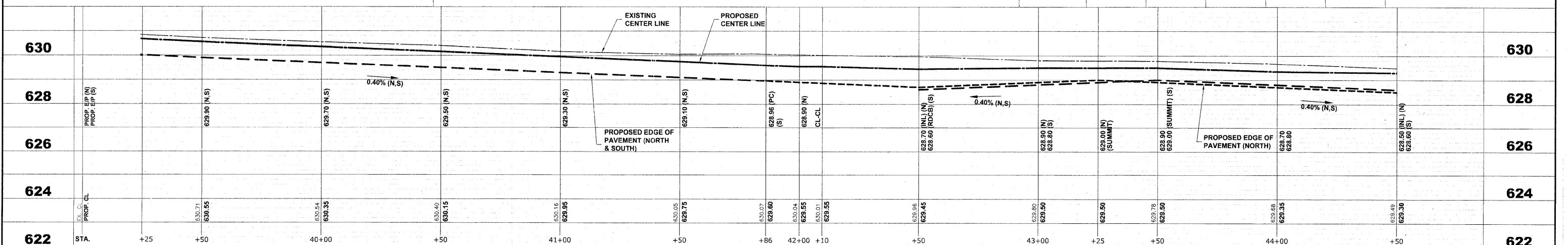
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EXISTING TOPOGRAPHY



PROPOSED IMPROVEMENT



HANCOCK ENGINEERING
 Civil Engineers
 Municipal Consultants
 Established 1911

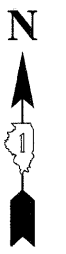
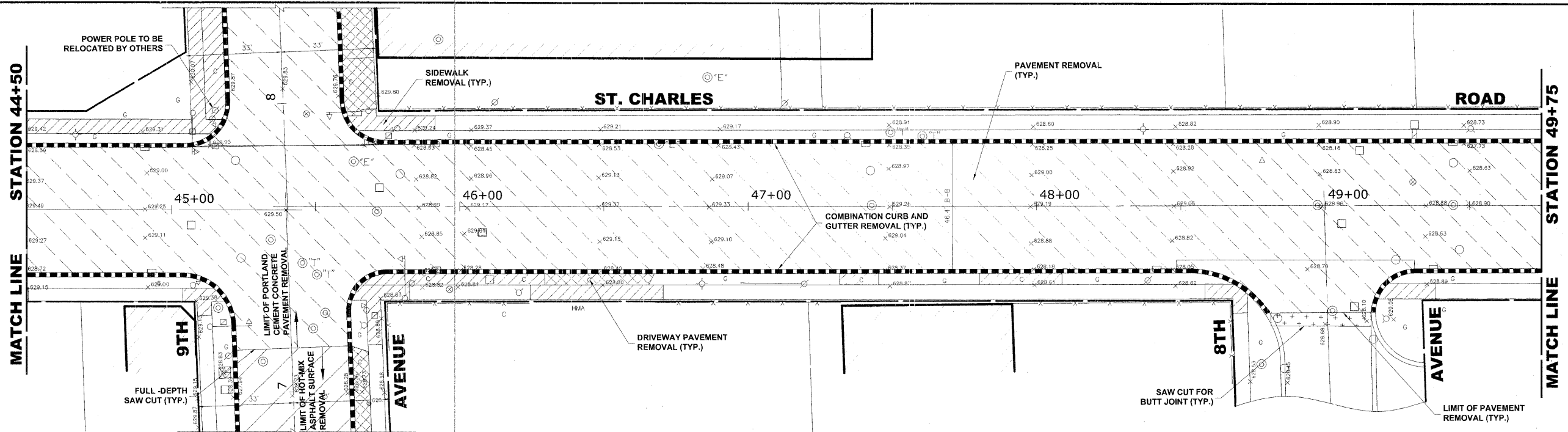
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PLOT SCALE	DRAWN - MK/LEV	REVISED -
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	DATE - 11-30-09	REVISED -

STATE OF ILLINOIS DEPARTMENT OF TRANSPORTATION

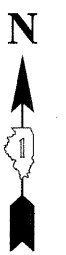
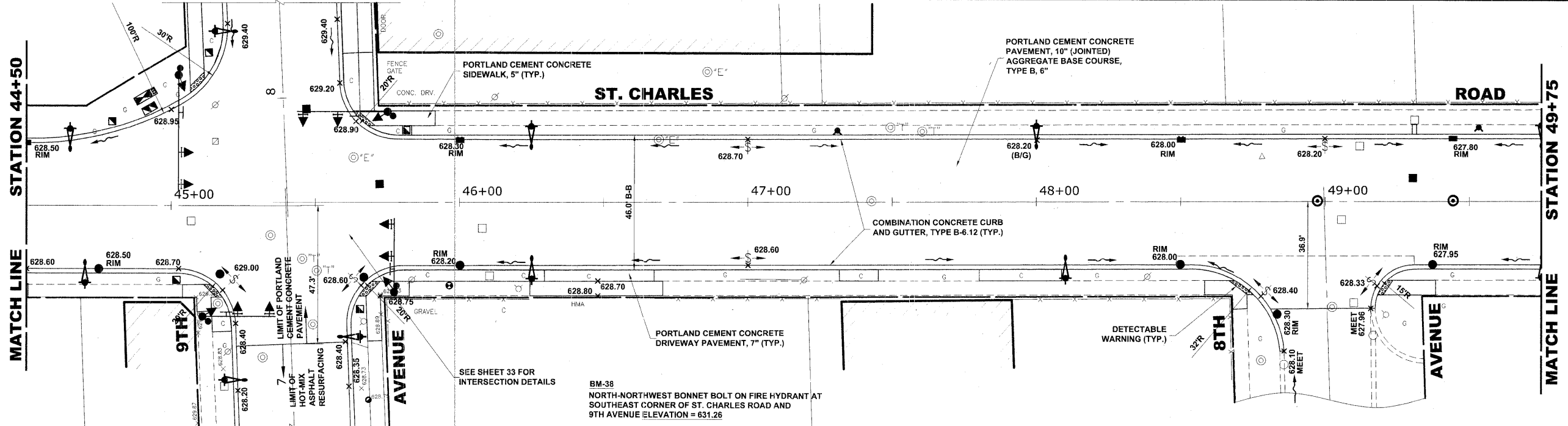
ST. CHARLES ROAD
PLANNING AND PROFILE
 SCALE: 1"=20'H./2'V. SHEET NO. 8 OF 11 SHEETS STA. 39+25 TO STA. 44+50

F.A.U. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
1397	09-00129-00-PV	COOK	103	28
FED. ROAD DIST. NO. 1 ILLINOIS FED. AID PROJECT M-9003 (267)			CONTRACT NO. 63428	
(BOOK NOS. 1579, 1583, 1589) E.H.E. PROJECT NO. 565-08-29001				

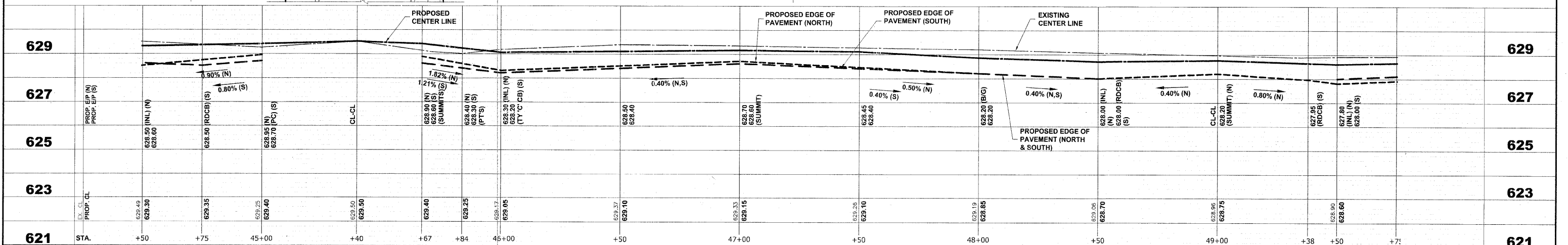
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EXISTING TOPOGRAPHY

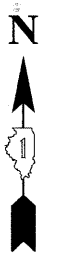
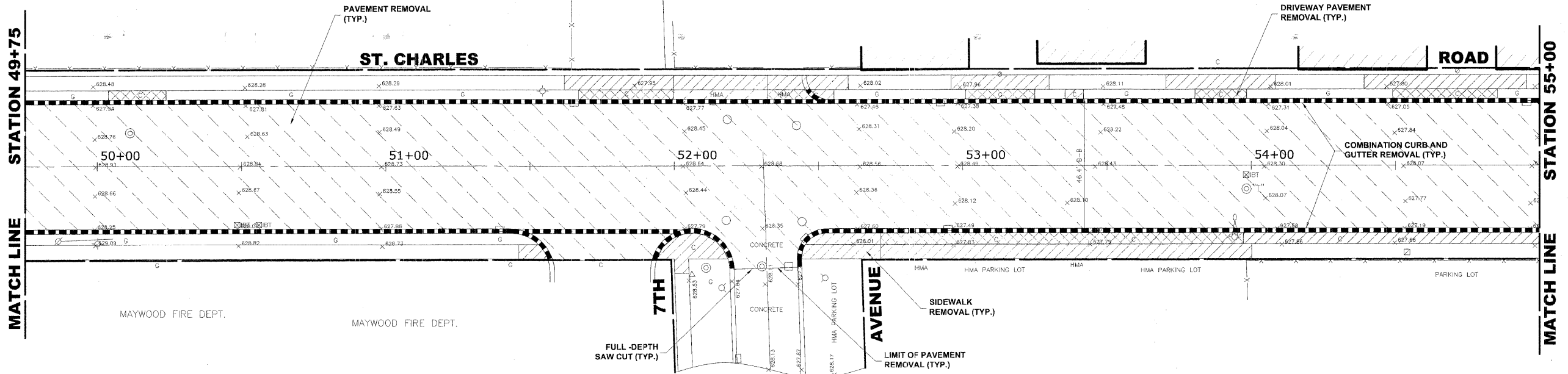


PROPOSED IMPROVEMENT

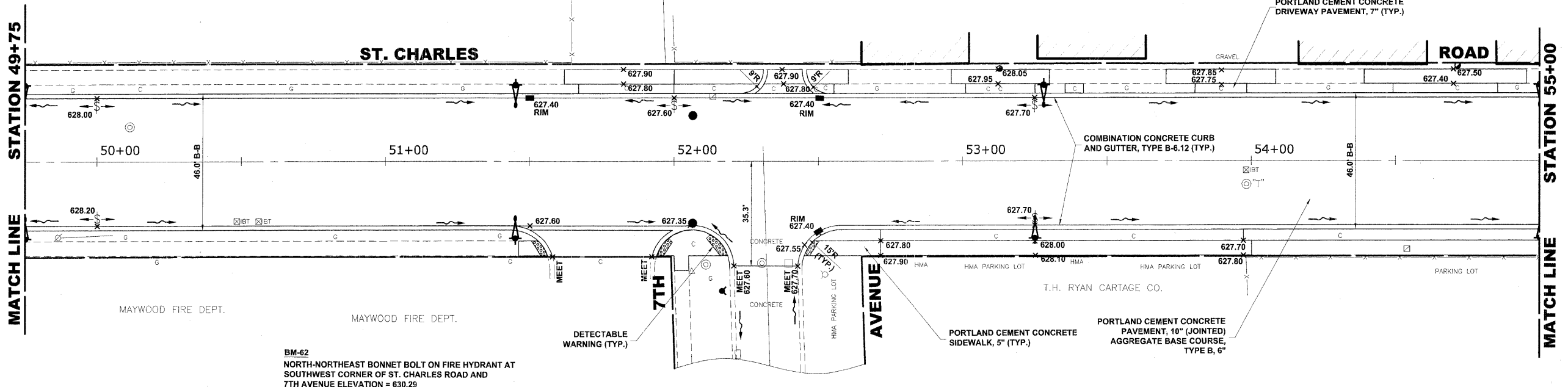


HANCOCK ENGINEERING Civil Engineers Municipal Consultants Established 1911	USER NAME - DESIGNED - MK/SBC DRAWN - MK/LEV CHECKED - SBC/JG/MV DATE - 11-30-09	REVISED - REVISED - REVISED - REVISED -	STATE OF ILLINOIS DEPARTMENT OF TRANSPORTATION		ST. CHARLES ROAD PLAN AND PROFILE		F.A.U. R.T.E. 1397	SECTION 09-00129-00-PV	COUNTY COOK	TOTAL SHEETS 103	SHEET NO. 29
	PLOT SCALE - PLOT DATE -	DATE - 11-30-09	REVISED - REVISED -	SCALE: 1"=20'H./2'V.	SHEET NO. 9 OF 11 SHEETS	STA. 44+50 TO STA. 49+75	FED. ROAD DIST. NO. 1 ILLINOIS	AID PROJECT M-9003 (267)	CONTRACT NO. 63428	E.H.E. PROJECT NO. 565-08-29001	

Drawing file: W:\Projects\565082900 - St. Charles Rd\St. Charles Road.dwg Dec. 07, 2009 - 10:17am

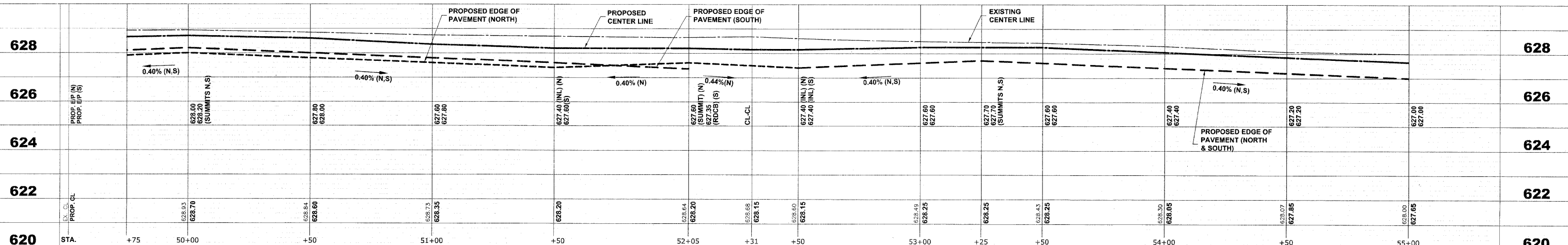


EXISTING TOPOGRAPHY



PROPOSED IMPROVEMENT

BM-62
NORTH-NORTHEAST BONNET BOLT ON FIRE HYDRANT AT
SOUTHWEST CORNER OF ST. CHARLES ROAD AND
7TH AVENUE ELEVATION = 630.29



HANCOCK ENGINEERING
Civil Engineers
Municipal Consultants
Established 1911

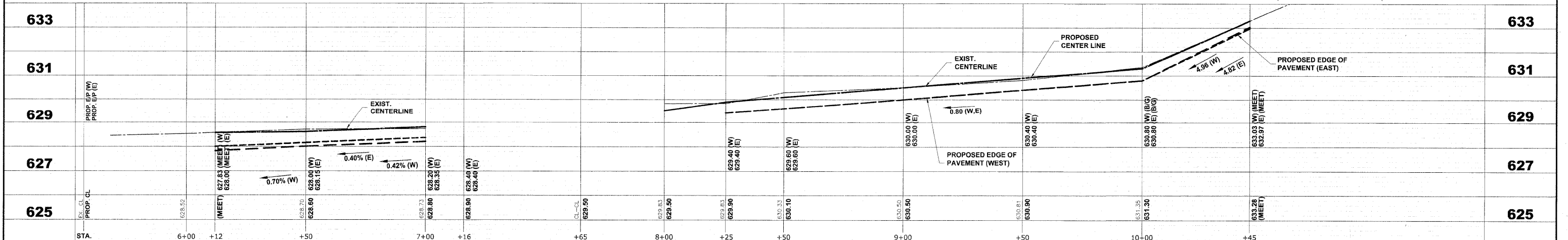
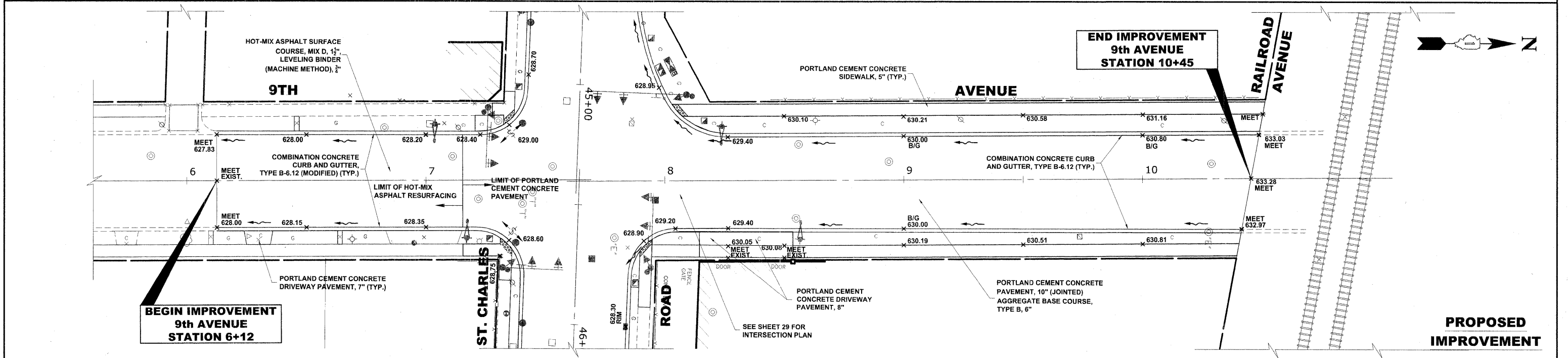
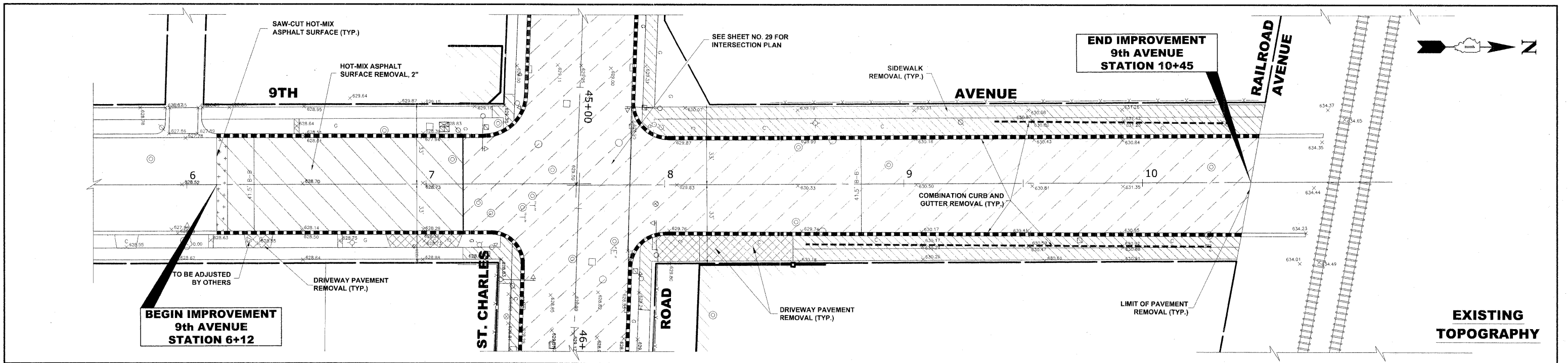
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DRAWN - MK/LEV	REVISED -	
CHECKED - SBC/JGMV	REVISED -	
DATE - 11-30-09	REVISED -	

STATE OF ILLINOIS DEPARTMENT OF TRANSPORTATION

ST. CHARLES ROAD PAVING PLAN AND PROFILE
SCALE: 1"=20'H./2'V. SHEET NO. 10 OF 11 SHEETS STA. 49+75 TO STA. 55+00

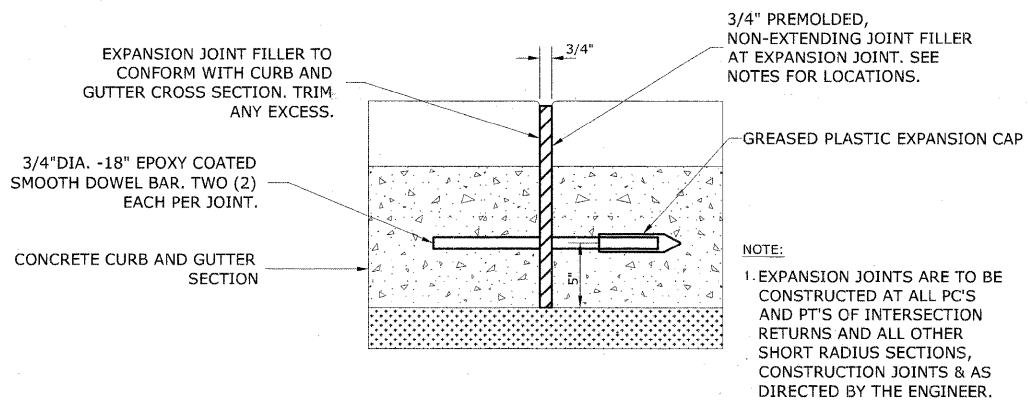
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CONTRACT NO. 63428			M-9003 (267)	

Drawing File: W:\Projects\550290 - St. Charles Rd\St. Charles Rd.dwg Dec 07, 2009 - 10:17am

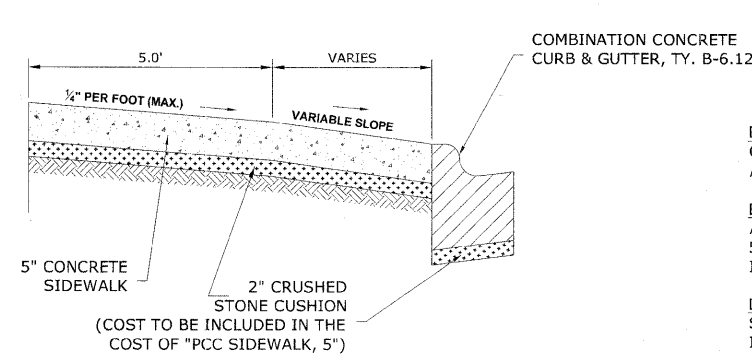


<p>HANCOCK ENGINEERING Civil Engineers Municipal Consultants Established 1911</p>	USER NAME --	DESIGNED -- MK/SBC	REVISED --	STATE OF ILLINOIS DEPARTMENT OF TRANSPORTATION	9TH AVENUE PAVING PLAN AND PROFILE	F.A.J. RTE. 1397	SECTION 09-00129-00-PV	COUNTY COOK	TOTAL SHEETS 103	SHEET NO. 33
	PLOT SCALE --	CHECKED -- SBC/JGMV	REVISED --			SCALE: 1"=20'H./2V.	SHEET NO. 1 OF 1 SHEETS	STA. 6+12 TO STA. 10+45	CONTRACT NO. 63428	
PLOT DATE --	DATE -- 11-30-09	REVISED --	REVISED --			(BOOK NOS. 1579, 1583, 1589) E.H.E PROJECT NO. 565-08-29001				

Drawing file: W:\Projects\565082900 - St. Charles Rd\St. Charles Rd\St. Charles Rd.dwg
 Dec 08, 2009 - 9:17am



TYPICAL CURB AND GUTTER EXPANSION JOINT



PROPOSED P.C.C. SIDEWALK AND PARKWAY DETAIL

GENERAL NOTES

DEPRESSED CURBS - THE TOP OF CURBS SHALL BE DEPRESSED WHERE THE CURB AND GUTTER IS CONSTRUCTED AT HANDICAP ACCESSIBLE SIDEWALK RAMPS AT ALLEY RETURNS AND STREET INTERSECTIONS, AND FOR PRIVATE AND COMMERCIAL DRIVES AND AS DIRECTED BY THE ENGINEER

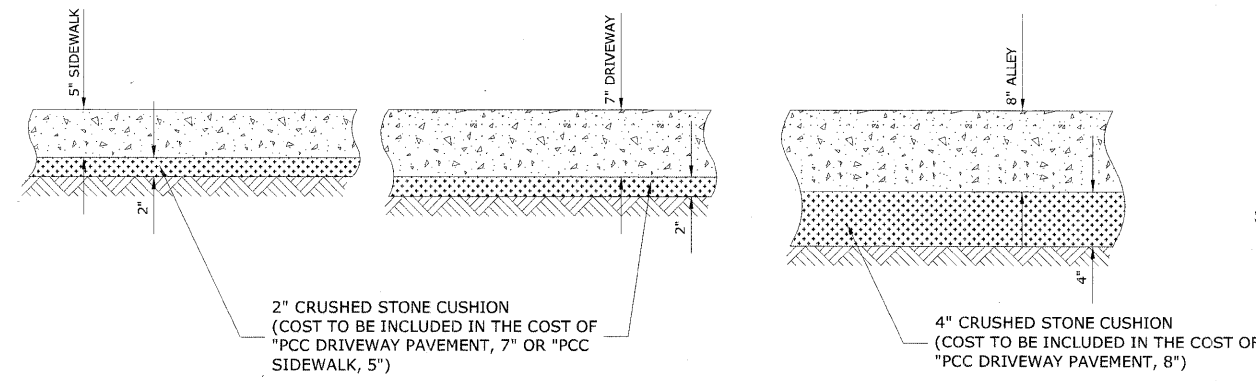
DRAINAGE OPENINGS - AT ALL LOCATIONS WHERE CASTINGS ARE TO BE INCORPORATED IN THE CURB AND GUTTER, A 3/4" EXPANSION JOINT SHALL BE INSTALLED IN THE CURB AND GUTTER A DISTANCE OF 5 FT. FROM EACH SIDE OF THE CASTING. 2-NO. 4 RE-BARS, 9' IN LENGTH, SHALL BE INCORPORATED IN THE CONTINUOUS PORTION OF CONCRETE CURB BEHIND THE CASTING.

DETECTABLE WARNINGS - DETECTABLE WARNINGS SHALL BE INSTALLED AT HANDICAP ACCESSIBLE SIDEWALK RAMPS, AT ALLEY RETURNS, AND STREET INTERSECTIONS. THESE SHALL BE CONSTRUCTED IN ACCORDANCE WITH THE APPLICABLE IDOT STANDARDS.

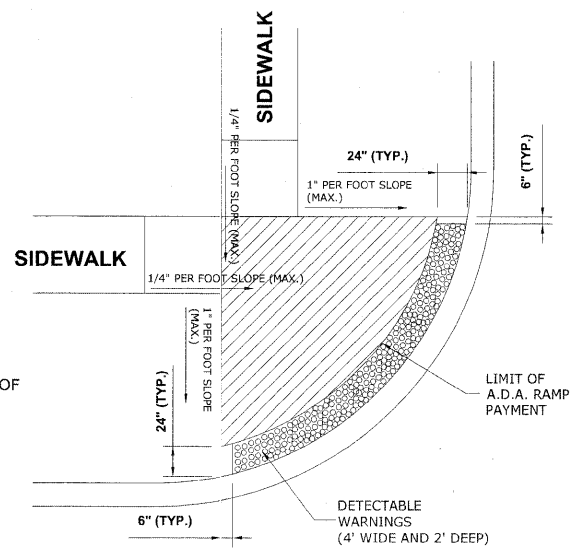
SLIPFORM CONSTRUCTION - VERTICAL FACES MAY BE BATTERED AT THE RATE OF 3/4" PER FOOT OF HEIGHT TO AID IN SLIPFORM OPERATIONS.

DEPRESSED CURB HEIGHT - THE HEIGHT OF THE DEPRESSED CURB SHALL BE 1-1/2" AT DRIVEWAYS. SEE IDOT STANDARD 424001-05 FOR HEIGHT AT SIDEWALK RAMP.

BITUMINOUS EXPANSION JOINTS - THREE QUARTER INCH (3/4") BITUMINOUS PREMOLDED INORGANIC FIBER EXPANSION JOINTS SHALL BE INSTALLED WHERE NEW SIDEWALK OR CURB AND GUTTER OR DRIVEWAY PAVEMENT ABUTS AN EXISTING CONCRETE WALK, DRIVE, OR CURB WHICH IS TO REMAIN IN PLACE, AND AT NOT LESS THAN NINETY FOOT (90') INTERVALS AT LOCATIONS WHERE CURB REPLACEMENT IS IN EXCESS OF NINETY FEET (90'); AT RADIUS POINTS, AT BOTH SIDES OF FRAMES AND GRATES WHICH FALL IN THE CURB; AND AS DIRECTED BY THE ENGINEER.



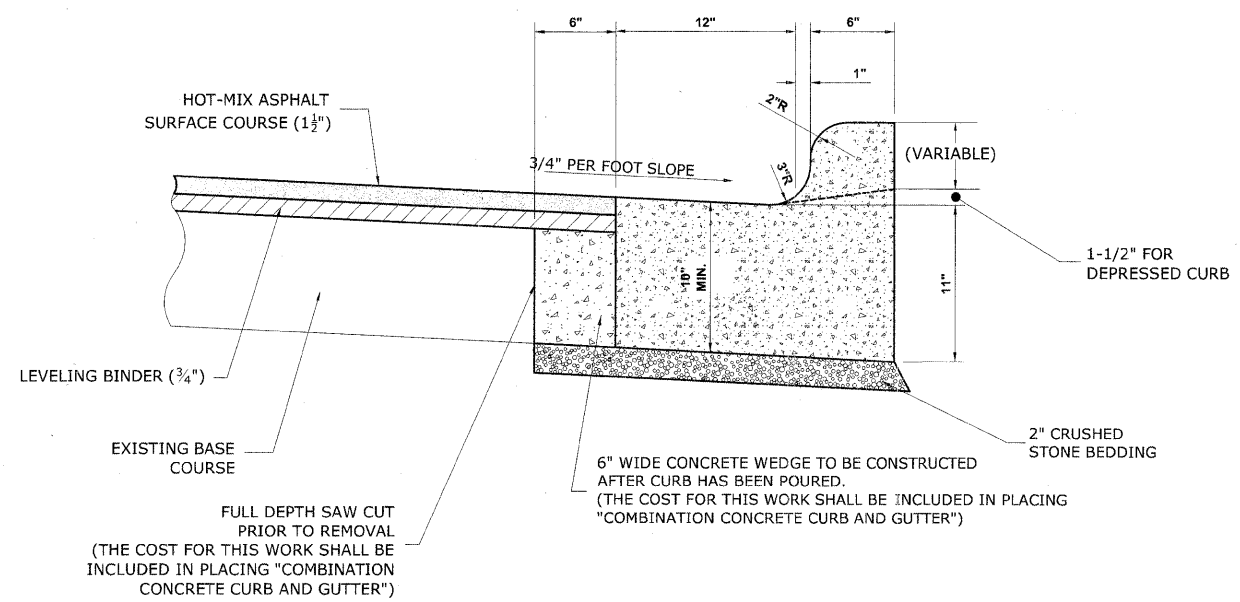
TYPICAL P.C.C. SIDEWALK, DRIVEWAY & ALLEY DETAIL



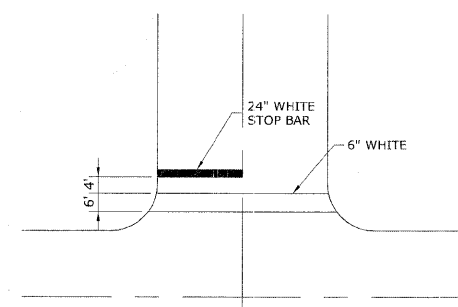
A.D.A. RAMP DETAIL

ALL EXPANSION JOINTS LOCATED IN THE CURB AND GUTTER SHALL HAVE TWO (2) THREE QUARTER INCH (3/4") DIAMETER, SMOOTH, ROUND, EPOXY COATED DOWEL BARS, EIGHTEEN INCHES (18") IN LENGTH, WITH GREASED PLASTIC END CAPS INSERTED TO ALLOW THE CURB AND GUTTER TO EXPAND AND CONTRACT LATERALLY. CONTRACTION JOINTS SHALL BE TOOLED INTO THE CURB AND GUTTER AT INTERVALS NOT TO EXCEED FIFTEEN FEET (15'). THESE CONTRACTION JOINTS SHALL BE SAW CUT TO A DEPTH OF TWO INCHES (2") WITHIN TWENTY-FOUR (24) HOURS OF CONCRETE PLACEMENT. THE COST OF THE ABOVE WORK SHALL BE INCLUDED INT THE RESPECTIVE ITEMS FOR CONCRETE INSTALLATION.

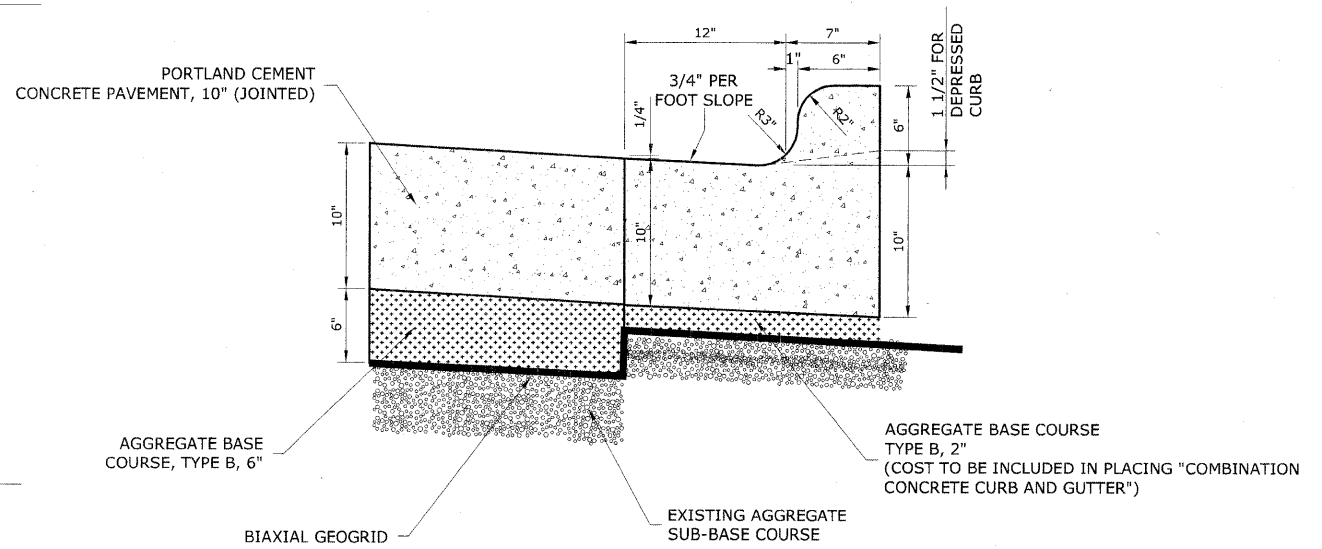
THE COSTS FOR REMOVAL OF ANY ASPHALT OVERLAY THAT EXTENDS INTO THE GUTTER PORTION OF THE CURB AND GUTTER WILL BE INCLUDED IN THE PRICE FOR COMBINATION CURB AND GUTTER REMOVAL.



COMBINATION CONCRETE CURB & GUTTER TYPE B-6.12 (MODIFIED) 19TH AVE. (SOUTH) AND 9TH AVE. (SOUTH)



TYPICAL CROSSWALK & STOP BAR DETAIL



COMBINATION CONCRETE CURB & GUTTER TYPE B-6.12 AT ST. CHARLES ROAD AND 9TH AVE (NORTH)

Drawing File: W:\Projects\565082901 - St. Charles Rd\34_Roadway-Detail.dwg Dec. 07, 2009 10:48am

HANCOCK ENGINEERING
Civil Engineers
Municipal Consultants
Established 1911

1933 Riverside Road
Westchester, IL 60154-2786
Phone: 708/662-0100
Fax: 708/662-1212

USER NAME -	DESIGNED - MK/SBC	REVISED -
PLOT SCALE -	DRAWN - MK/LEV	REVISED -
PLOT DATE -	CHECKED - SBC/JGMV	REVISED -
	DATE - 11-30-09	REVISED -

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

ROADWAY DETAILS

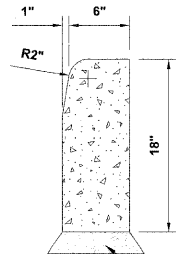
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F.A.U. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
1397	09-00129-00-PV	COOK	103	34
CONTRACT NO. 63428			M-9003 (267)	
FED. ROAD DIST. NO. 1 ILLINOIS FED. AID PROJECT M-9003 (267)				

(BOOK NOS. 1579, 1583, 1589) E.H.E PROJECT NO. 565-08-29001

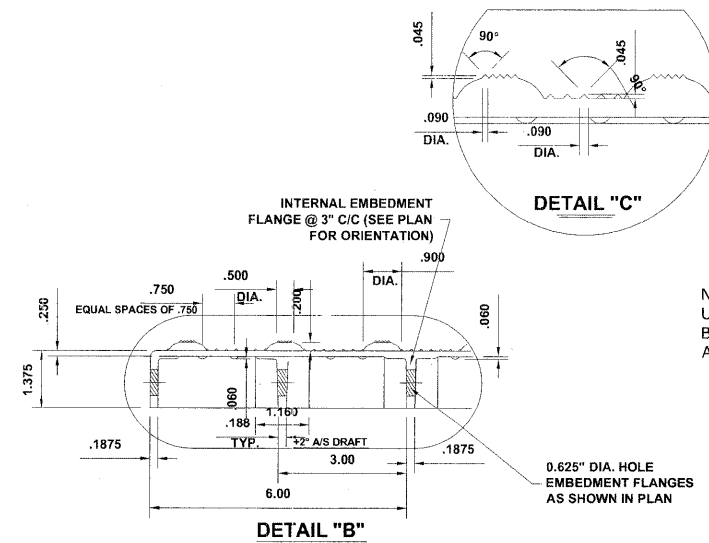
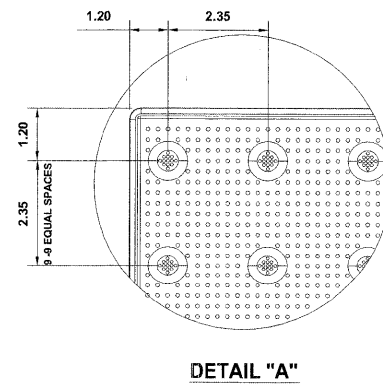
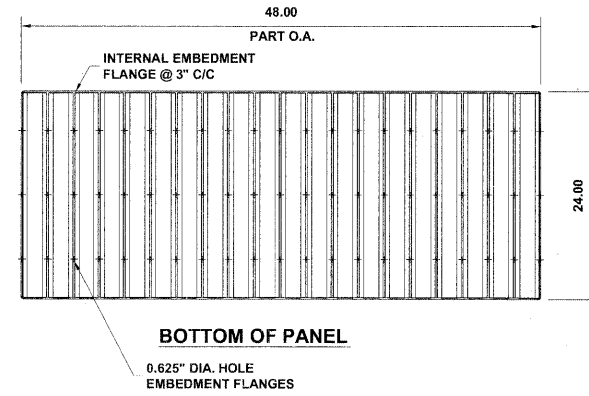
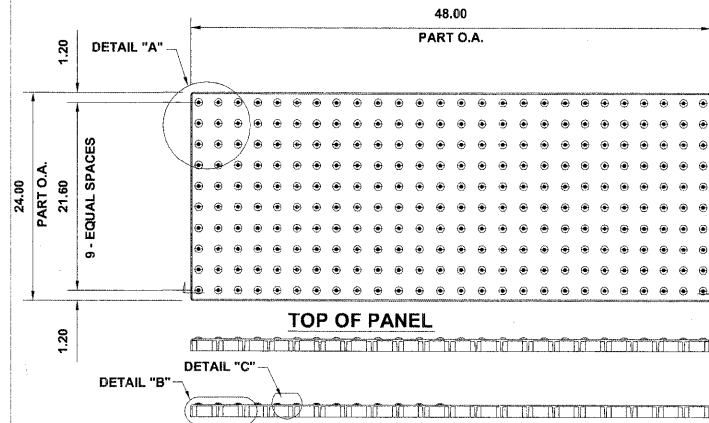
GENERAL NOTES

1. THE EDWIN HANCOCK ENGINEERING COMPANY SHALL BE NOTIFIED AT LEAST TWO (2) WORKING DAYS PRIOR TO COMMENCEMENT OF CONSTRUCTION AT (708) 865-0300.
2. THE VILLAGE OF MAYWOOD PUBLIC WORKS DEPARTMENT SHALL BE NOTIFIED AT LEAST TWO (2) WORKING DAYS PRIOR TO COMMENCEMENT OF CONSTRUCTION AT (708) 450-4482.
3. ALL CONSTRUCTION SHALL BE IN ACCORDANCE WITH THE "STANDARD SPECIFICATIONS FOR SEWER AND WATER MAIN CONSTRUCTION IN ILLINOIS" AND THE "STANDARD SPECIFICATIONS FOR ROAD AND BRIDGE CONSTRUCTION".



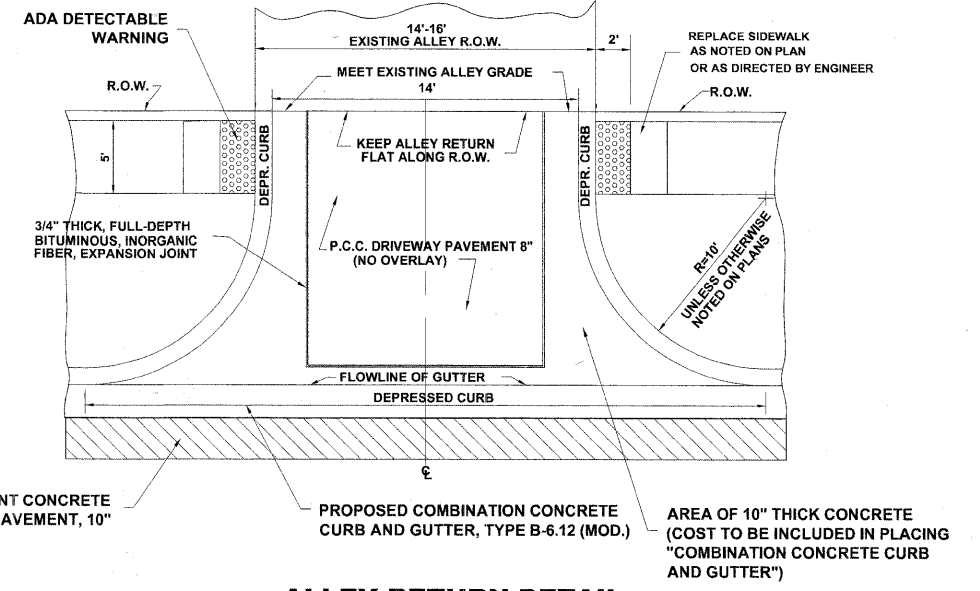
2" CRUSHED STONE BEDDING
(THE COST FOR THIS WORK SHALL BE INCLUDED
IN PLACING "CONCRETE CURB, TYPE B")

CONCRETE CURB, TYPE B (MODIFIED)



NOTE: COMPOSITE PAVER TILE
USED SHALL BE AS MANUFACTURED
BY ADA SOLUTIONS, INC., OR AS
APPROVED BY ENGINEER OR EQUAL.

**CAST-IN-PLACE COMPOSITE PAVER TILE
FOR DETECTABLE WARNING**



ALLEY RETURN DETAIL

Drawing file: W:\Projects\66508290 - St. Charles Rd\4_Roadway-Details.dwg Dec. 07, 2009 10:48am

HANCOCK ENGINEERING
Civil Engineers
Municipal Consultants
Established 1911

9513 Roman Rd
Woodstock, Illinois 60191-2706
Phone: 708.865.0300
Fax: 708.865.1212

USER NAME -	DESIGNED - MK/SBC	REVISED -
PLOT SCALE -	DRAWN - MK/LEV	REVISED -
PLOT DATE -	CHECKED - SBC/JG/MV	REVISED -
	DATE - 11-30-09	REVISED -

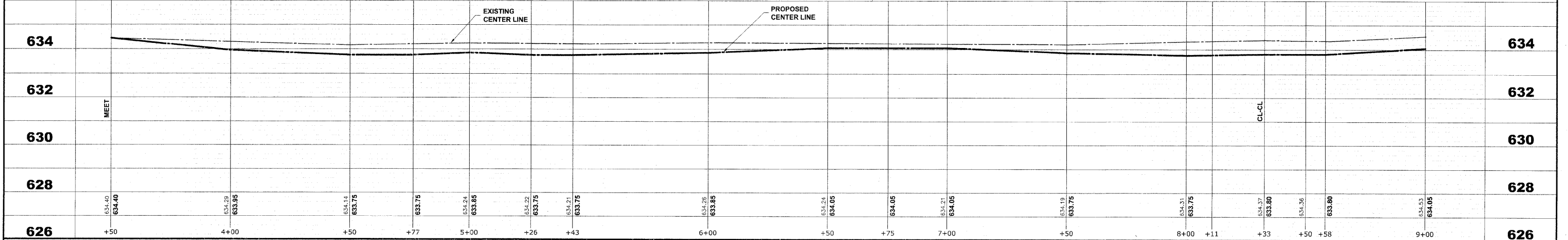
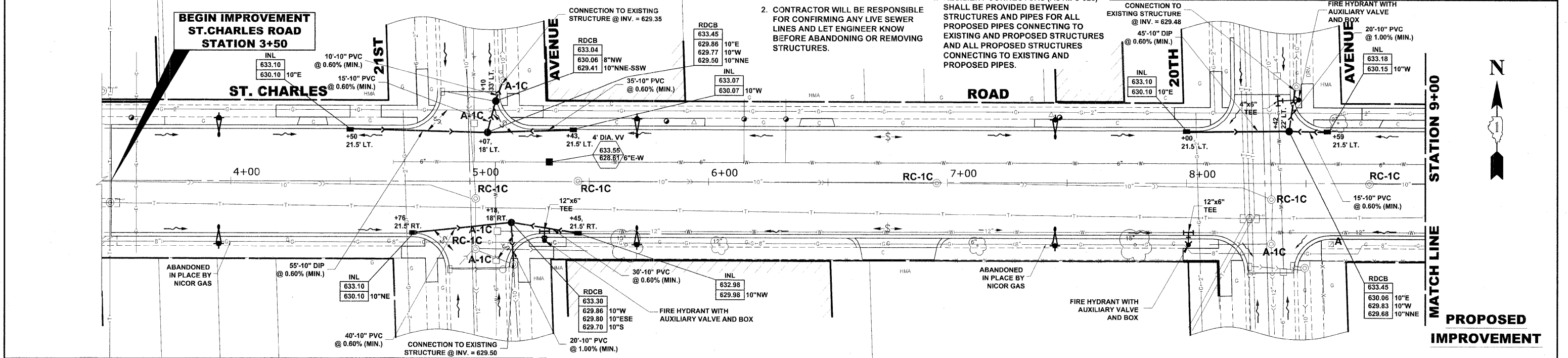
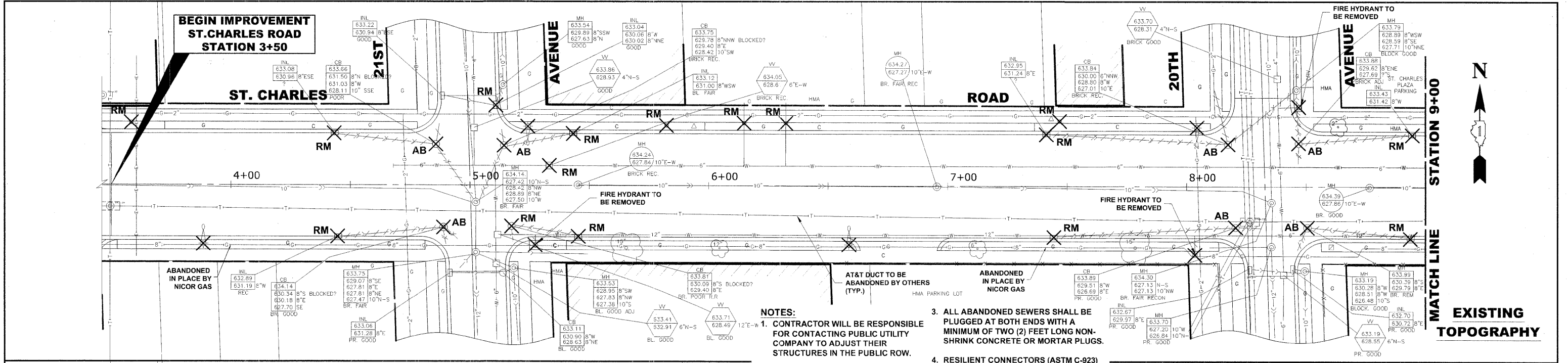
**STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION**

ROADWAY DETAILS

SCALE: NONE SHEET NO. 2 OF 2 SHEETS STA. TO STA.

F.A.U. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
1397	09-00129-00-PV	COOK	103	35
CONTRACT NO. 63428				
FED. ROAD DIST. NO. 1 ILLINOIS FED. AID PROJECT M-9003 (267)				

(BOOK NOS. 1579, 1583, 1589) E.H.E PROJECT NO. 565-08-29001



- NOTES:**
1. CONTRACTOR WILL BE RESPONSIBLE FOR CONTACTING PUBLIC UTILITY COMPANY TO ADJUST THEIR STRUCTURES IN THE PUBLIC ROW.
 2. CONTRACTOR WILL BE RESPONSIBLE FOR CONFIRMING ANY LIVE SEWER LINES AND LET ENGINEER KNOW BEFORE ABANDONING OR REMOVING STRUCTURES.
 3. ALL ABANDONED SEWERS SHALL BE PLUGGED AT BOTH ENDS WITH A MINIMUM OF TWO (2) FEET LONG NON-SHRINK CONCRETE OR MORTAR PLUGS.
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Drawing file: W:\Projects\66082926 - St. Charles Rd\St. Charles Rd.dwg
 Dec. 09, 2009 - 5:04pm

HANCOCK ENGINEERING
 Civil Engineers
 Municipal Consultants
 Established 1911

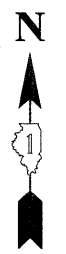
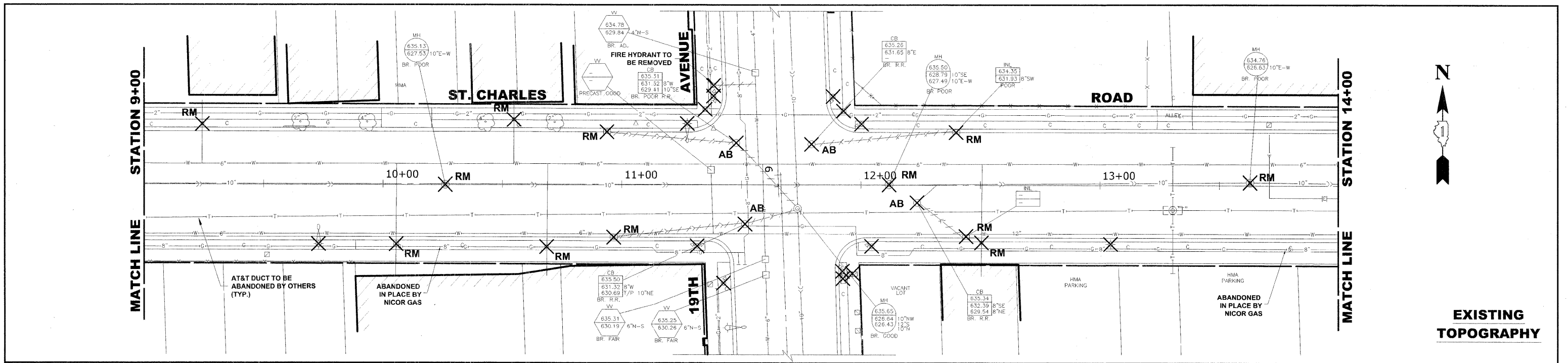
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	DATE -- 11-30-09	REVISED --

**STATE OF ILLINOIS
 DEPARTMENT OF TRANSPORTATION**

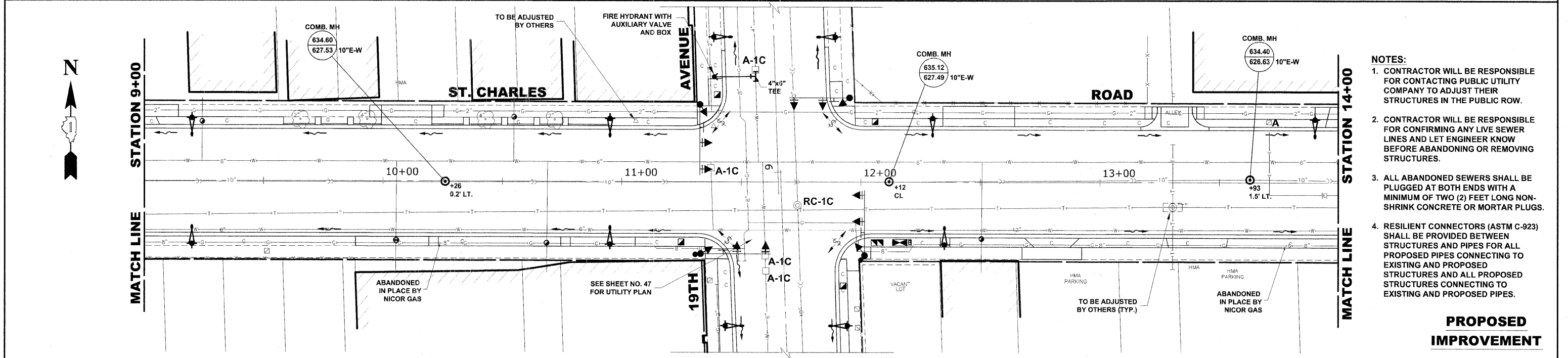
**ST. CHARLES ROAD
 UTILITIES PLAN AND PROFILE**

SCALE: 1"=20'H/2'V. SHEET NO. 1 OF 11 SHEETS STA. 3+50 TO STA. 9+00

F.A.U. RTE. 1197	SECTION 09-00129-00-PV	COUNTY COOK	TOTAL SHEETS 103	SHEET NO. 36
CONTRACT NO. 63428				
FED. ROAD DIST. NO. 1 ILLINOIS FED. AID PROJECT M-9003 (267)				
(BOOK NOS. 1579, 1583, 1589) E.H.E PROJECT NO. 565-08-29001				

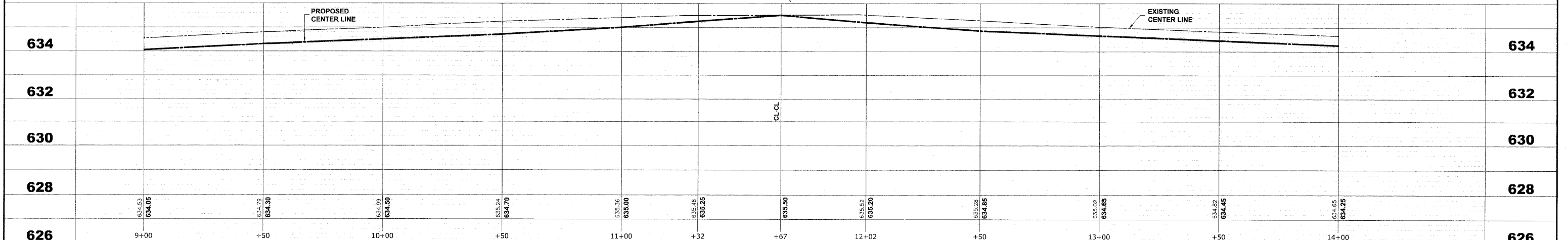


EXISTING TOPOGRAPHY



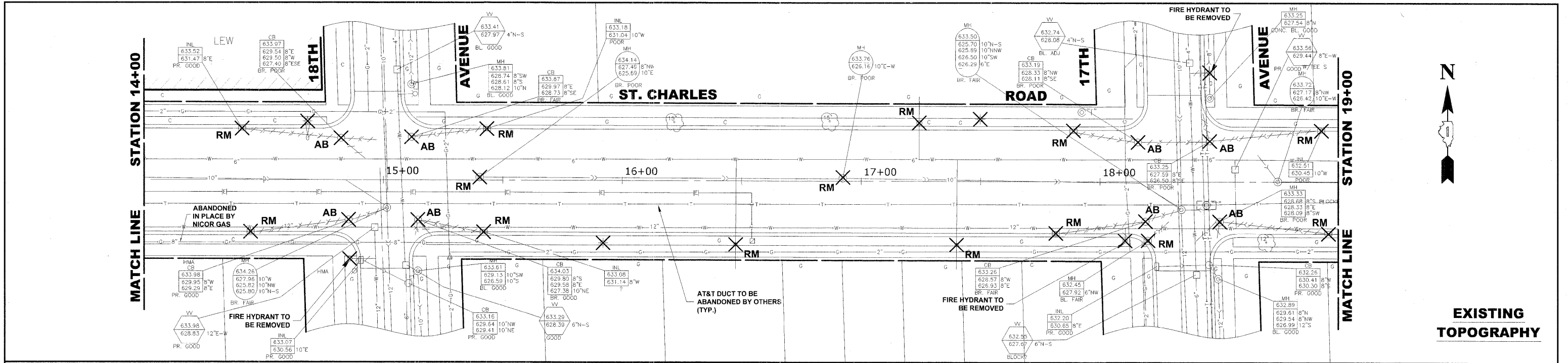
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PROPOSED IMPROVEMENT

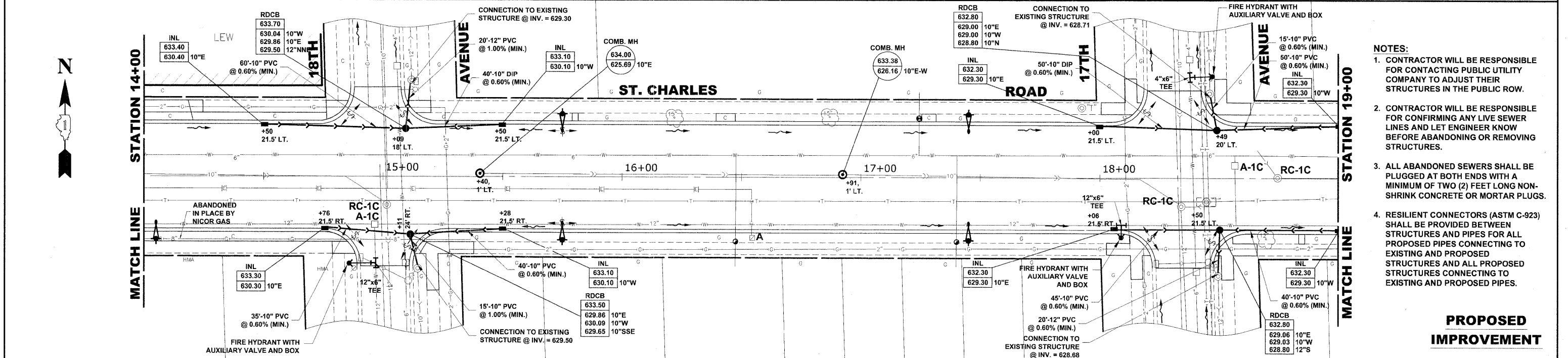


<p>HANCOCK ENGINEERING Civil Engineers Municipal Consultants Established 1911</p>	USER NAME -- DESIGNED -- MK/SBC DRAWN -- MK/LEV CHECKED -- SBC/JGMV DATE -- 11-30-09	REVISED -- REVISED -- REVISED -- REVISED --	STATE OF ILLINOIS DEPARTMENT OF TRANSPORTATION		ST. CHARLES ROAD UTILITIES PLAN AND PROFILE		F.A.U. RTE. 1397 SECTION 09-00129-00-PV COUNTY COOK TOTAL SHEETS 103 SHEET NO. 37 CONTRACT NO. 63428 FED. ROAD DIST. NO. 1 ILLINOIS FED. AID PROJECT M-9003 (267) (BOOK NOS. 1579, 1583, 1589) E.H.E PROJECT NO. 565-08-29001
	PLOT SCALE -- PLOT DATE --	DATE -- 11-30-09	SCALE: 1"=20'H./V. SHEET NO. 2 OF 11 SHEETS STA. 9+00 TO STA. 14+00				

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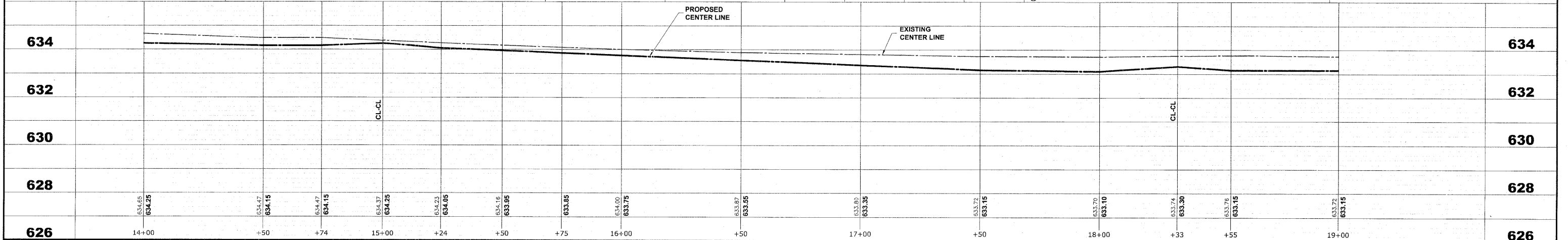


EXISTING TOPOGRAPHY



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PROPOSED IMPROVEMENT



HANCOCK ENGINEERING
 Civil Engineers
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 Established 1911

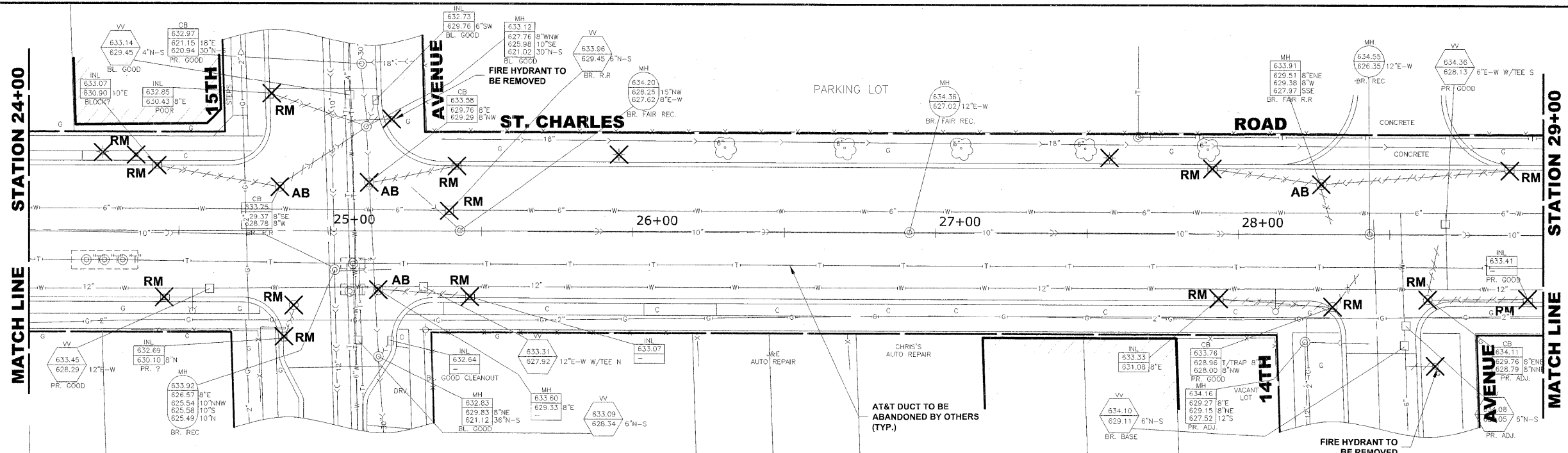
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PLOT SCALE --	DRAWN -- MK/LEV	REVISED --
PLOT DATE --	CHECKED -- SBC/JGMV	REVISED --
	DATE -- 11-30-09	REVISED --

STATE OF ILLINOIS DEPARTMENT OF TRANSPORTATION

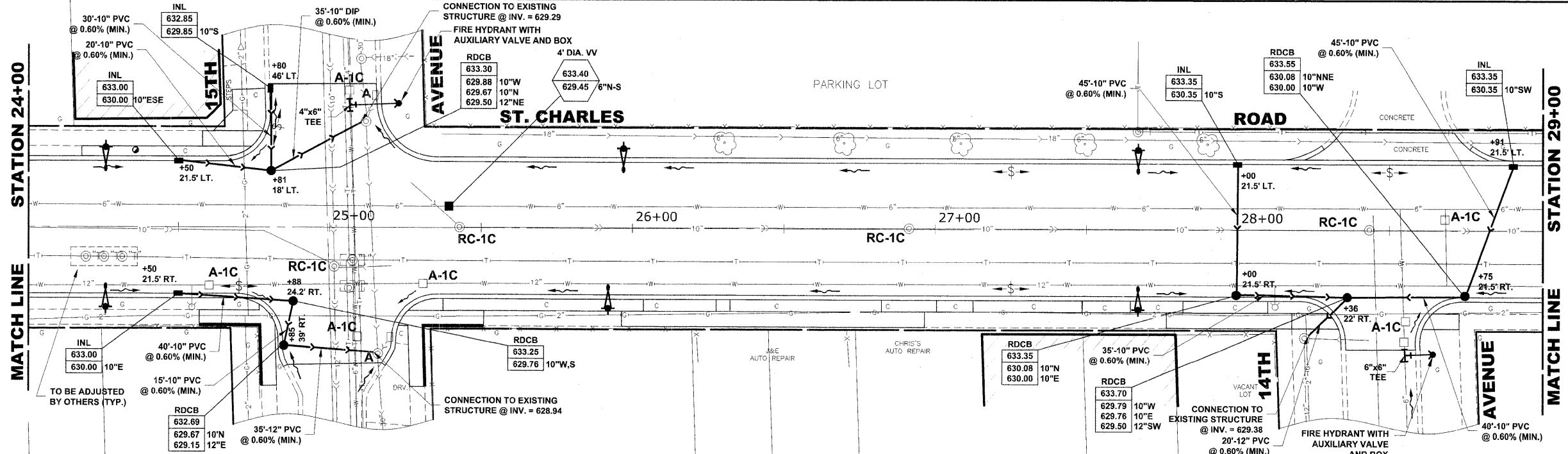
ST. CHARLES ROAD UTILITIES PLAN AND PROFILE
 SCALE: 1"=20'H./2'V. SHEET NO. 3 OF 11 SHEETS STA. 14+00 TO STA. 19+00

F.A.U. RTE. 1397	SECTION 09-00129-00-PV	COUNTY COOK	TOTAL SHEETS 103	SHEET NO. 38
CONTRACT NO. 63428				
FED. ROAD DIST. NO. 1 ILLINOIS FED. AID PROJECT M-9003 (267)				
(BOOK NOS. 1579, 1583, 1589) E.H.E PROJECT NO. 565-08-29001				

Drawing file: W:\Projects\565082900 - St. Charles Rd\St. Charles Rd.dwg Dec. 07, 2009 - 3:41 pm



EXISTING TOPOGRAPHY



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PROPOSED IMPROVEMENT

STATION	EXISTING CENTER LINE	PROPOSED CENTER LINE
24+00	634.07	633.85
+50	634.05	633.70
+69	634.05	633.70
25+00	634.12	633.60
+35	633.60	633.60
+50	634.17	633.60
26+00	634.20	633.80
+50	634.25	634.00
27+00	634.37	634.20
+25	634.20	634.20
+50	634.46	634.20
28+00	634.43	634.10
+23	634.10	634.10
+45	634.55	634.15
29+00	634.15	634.15
+91	634.49	634.20
29+00	634.15	634.15

Drawing File: \\Projects\25608290 - St. Charles Rd\St. Charles Rd\St. Charles Rd.dwg Dec: 07, 2009 4:54:20pm

HANCOCK ENGINEERING
 Civil Engineers
 Municipal Consultants
 Established 1911

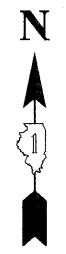
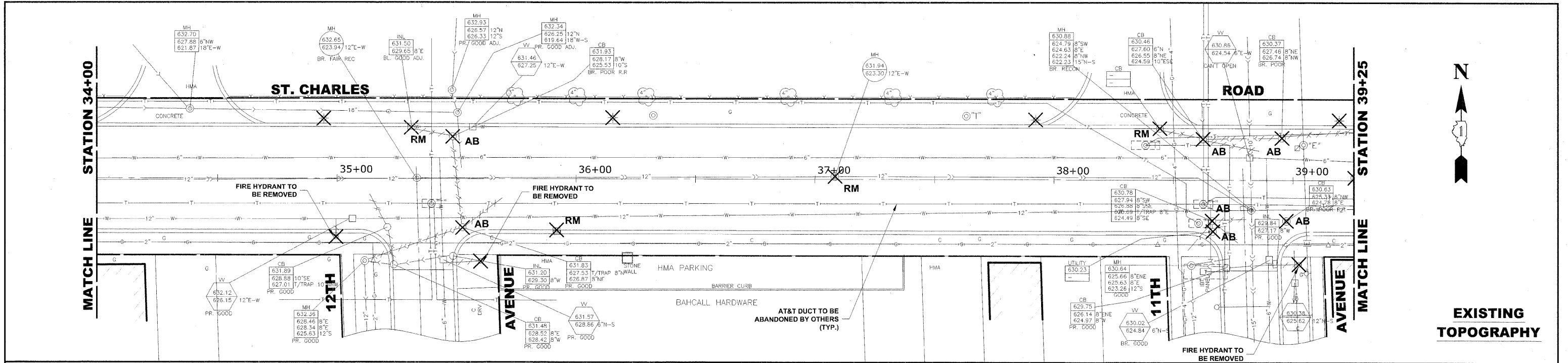
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	DATE - 11-30-09	REVISED -

**STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION**

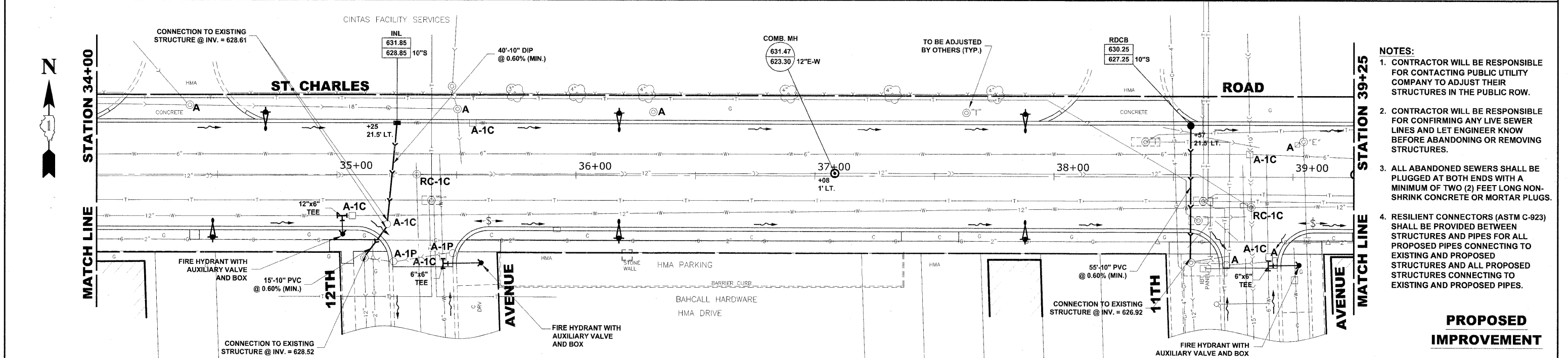
**ST. CHARLES ROAD
UTILITIES PLAN AND PROFILE**

SCALE: 1"=20'H./2'V. SHEET NO. 5 OF 11 SHEETS STA. 24+00 TO STA. 29+00

F.A.U. RTE. 1397	SECTION 09-00129-00-PV	COUNTY COOK	TOTAL SHEETS 103	SHEET NO. 40
CONTRACT NO. 63428			FED. ROAD DIST. NO. 1 ILLINOIS FED. AID PROJECT M-9003 (267)	
E.H.E. PROJECT NO. 565-08-29001				

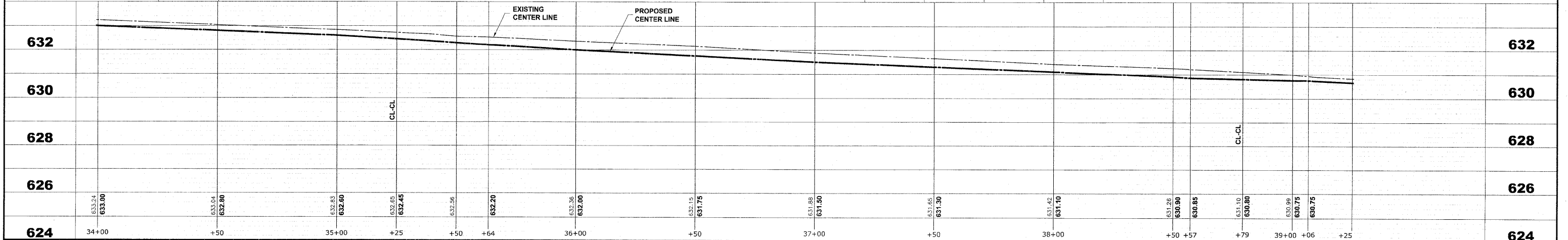


EXISTING TOPOGRAPHY



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PROPOSED IMPROVEMENT



HANCOCK ENGINEERING
 Civil Engineers
 Municipal Consultants
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USER NAME -	DESIGNED - MK/SBC	REVISED -
PLOT SCALE -	DRAWN - MK/LEV	REVISED -
PLOT DATE -	CHECKED - SBC/JG/MV	REVISED -
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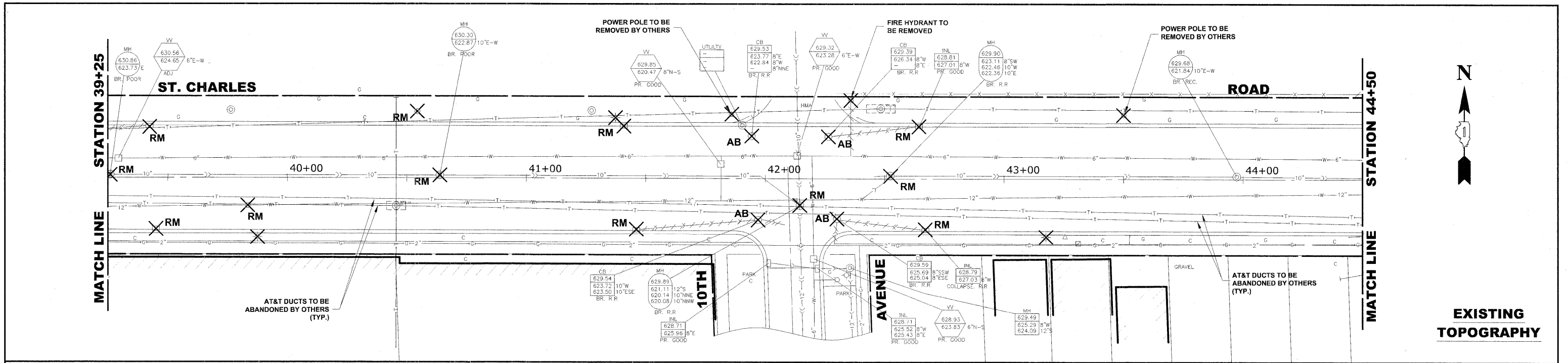
**STATE OF ILLINOIS
 DEPARTMENT OF TRANSPORTATION**

**ST. CHARLES ROAD
 UTILITIES PLAN AND PROFILE**

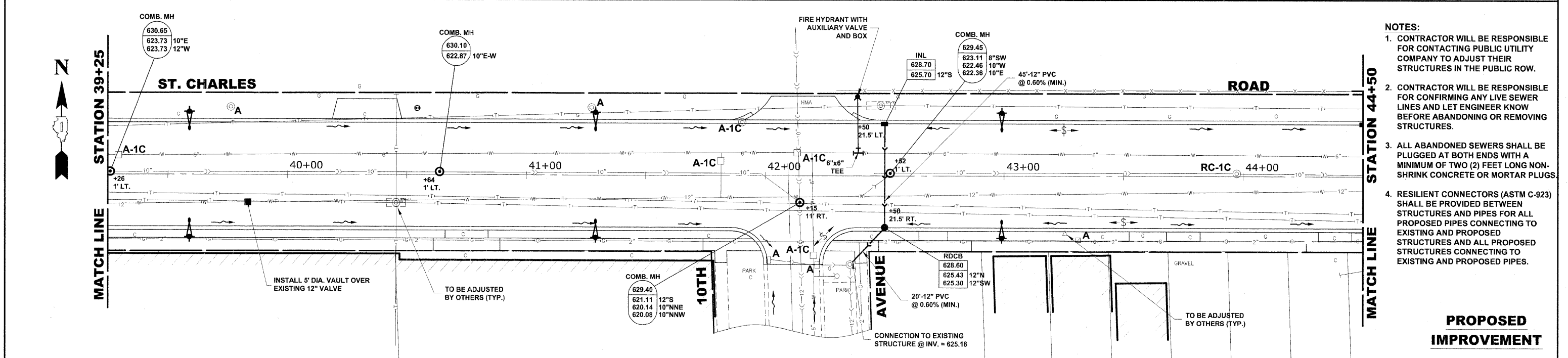
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F.A.U. RTE. 1397	SECTION 09-0129-00-PV	COUNTY COOK	TOTAL SHEETS 103	SHEET NO. 42
CONTRACT NO. 63428				
FED. ROAD DIST. NO. 1 ILLINOIS FED. AID PROJECT M-9003 (267)				
(BOOK NOS. 1579, 1583, 1589) E.H.E. PROJECT NO. 565-08-29001				

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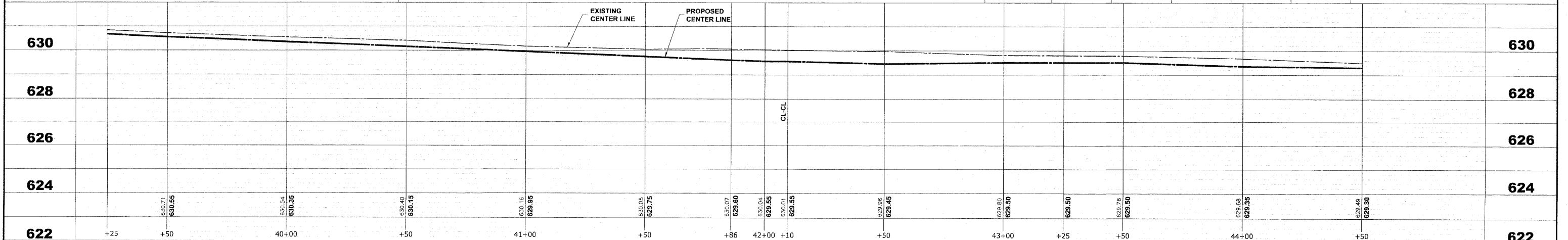


EXISTING TOPOGRAPHY



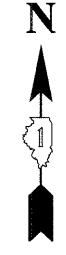
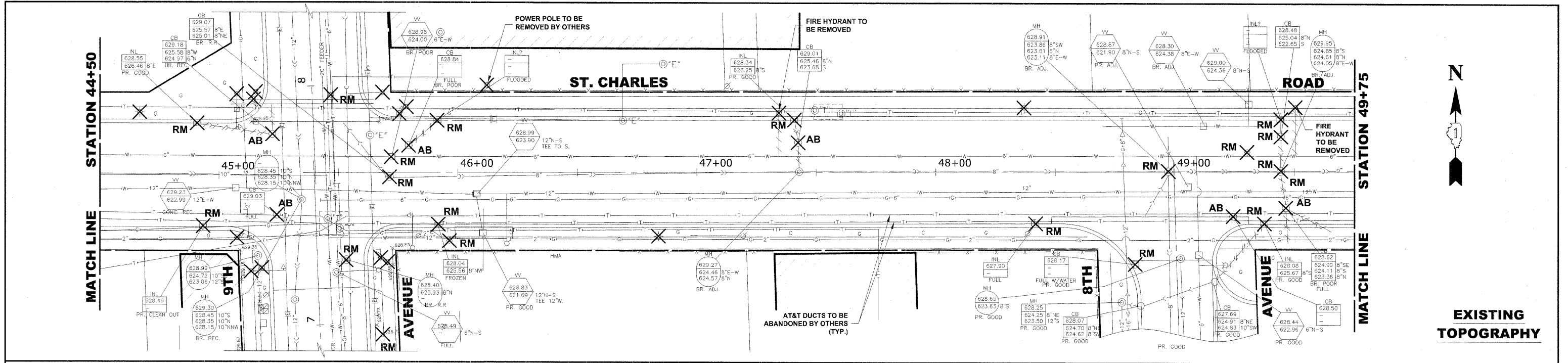
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PROPOSED IMPROVEMENT

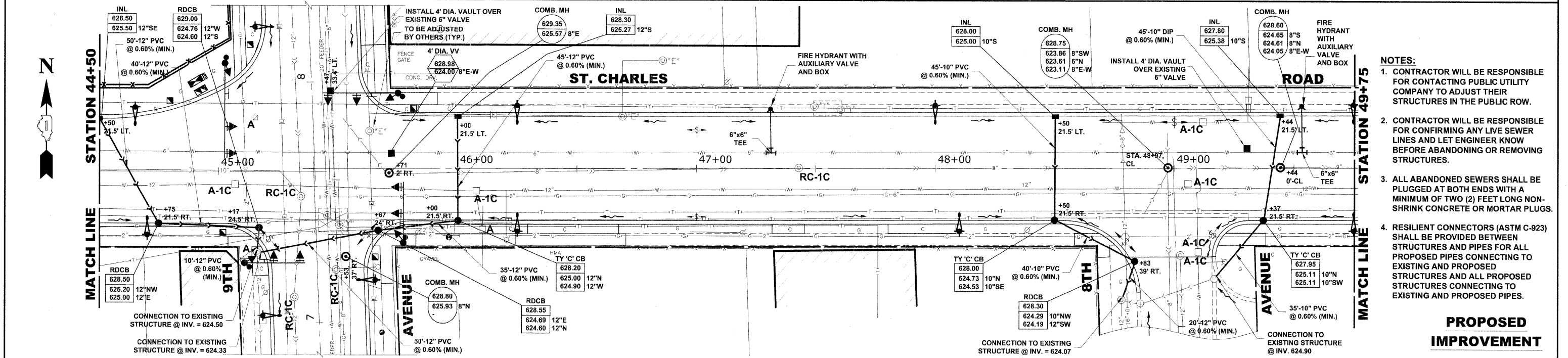


<p>HANCOCK ENGINEERING Civil Engineers Municipal Consultants Established 1911</p>	USER NAME --	DESIGNED -- MK/SBC	REVISED --	STATE OF ILLINOIS DEPARTMENT OF TRANSPORTATION	ST. CHARLES ROAD UTILITIES PLAN AND PROFILE	F.A.U. RTE. 1397	SECTION 09-00129-00-PV	COUNTY COOK	TOTAL SHEETS 103	SHEET NO. 43
	PLOT SCALE --	CHECKED -- SBC/JG/MV	REVISED --			SCALE: 1"=20'H./2'V.	SHEET NO. 8 OF 11 SHEETS	STA. 39+25 TO STA. 44+50	CONTRACT NO. 63428	
	PLOT DATE --	DATE -- 11-30-09	REVISED --			(BOOK NOS. 1579, 1583, 1589)		E.H.E. PROJECT NO. 565-08-29001		

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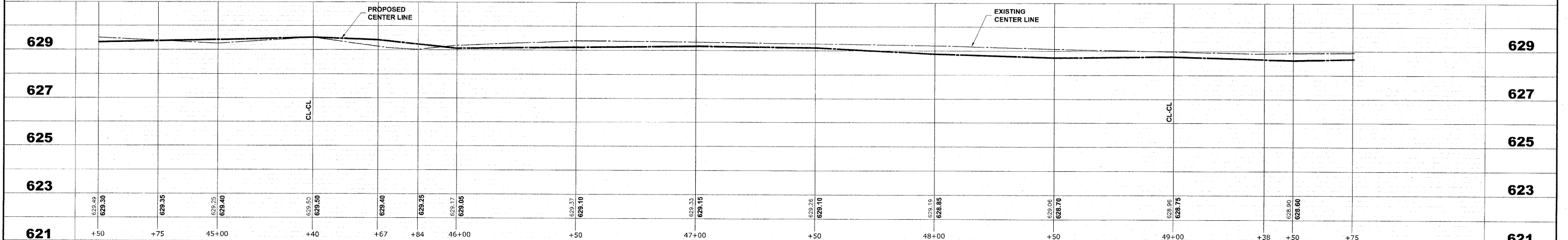


EXISTING TOPOGRAPHY



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PROPOSED IMPROVEMENT



HANCOCK ENGINEERING
 Civil Engineers
 Municipal Consultants
 Established 1911

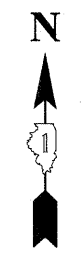
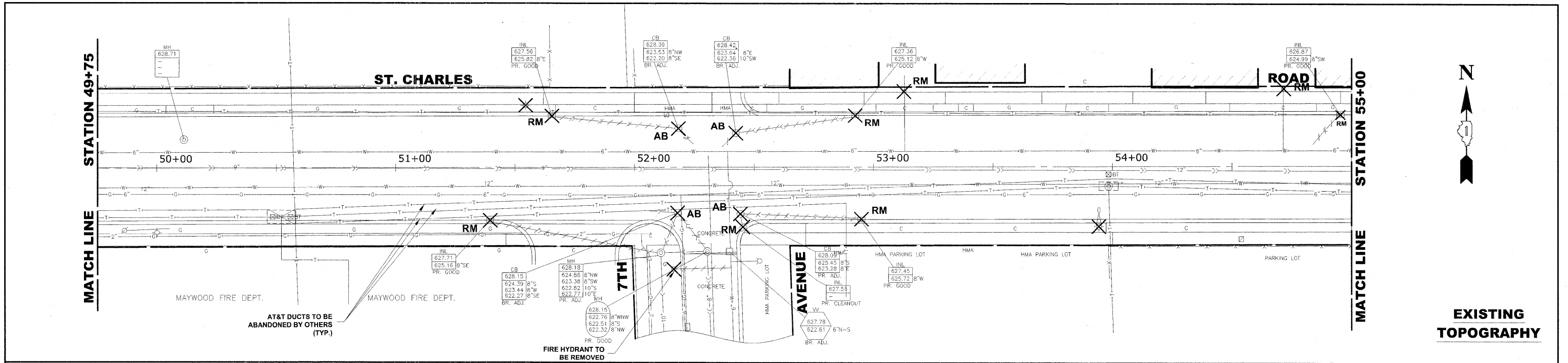
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PLOT SCALE	DRAWN - MK/LEV	REVISED -
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	DATE - 11-30-09	REVISED -

**STATE OF ILLINOIS
 DEPARTMENT OF TRANSPORTATION**

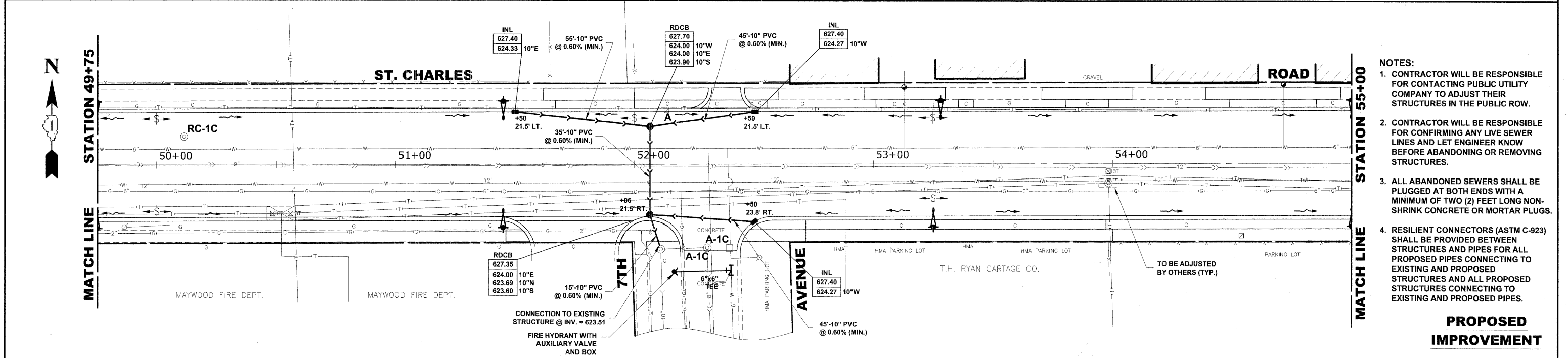
**ST. CHARLES ROAD
 UTILITIES PLAN AND PROFILE**
 SCALE: 1"=20'H./2'V. SHEET NO. 9 OF 11 SHEETS STA. 44+50 TO STA. 49+75

F.A.U. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
1397	09-00129-00-PV	COOK	103	44
CONTRACT NO. 63428			M-9003 (267)	

Drawing File: \\Projects\35505290 - St. Charles Rd\St. Charles Rd\St. Charles Rd.dwg Dec: 07, 2009 - 5:43pm

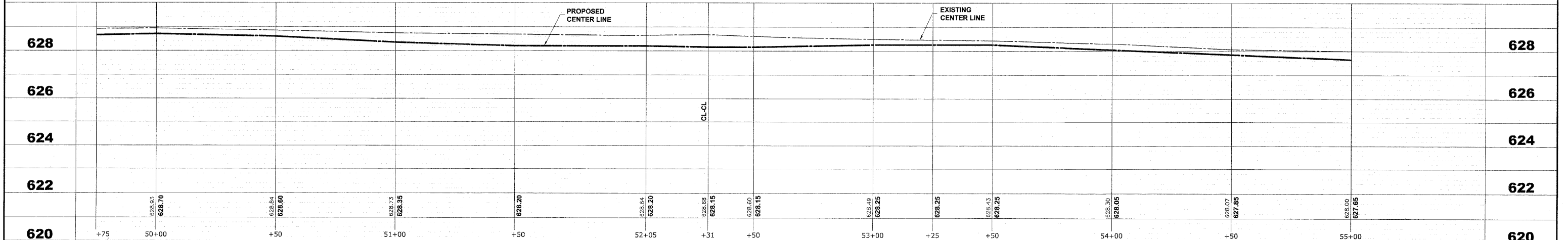


EXISTING TOPOGRAPHY



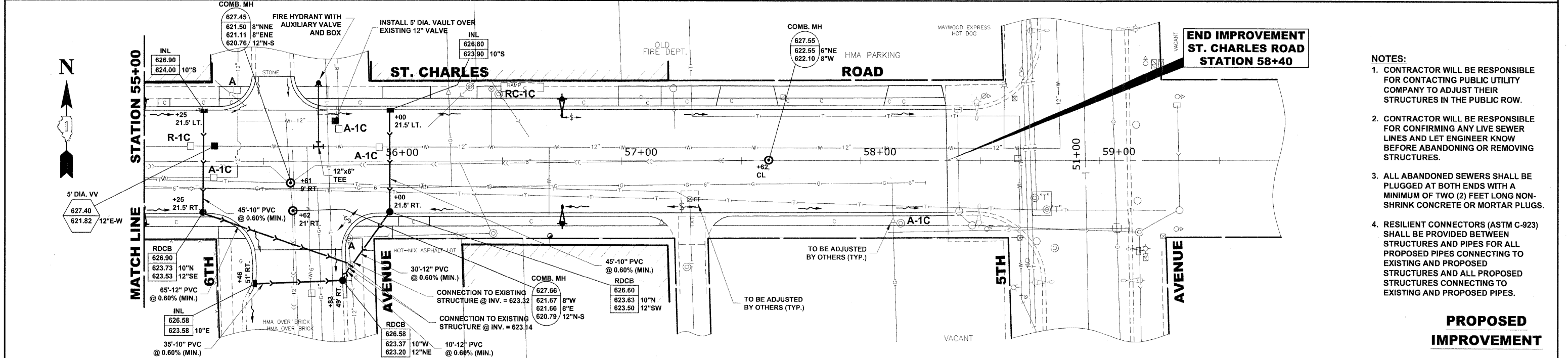
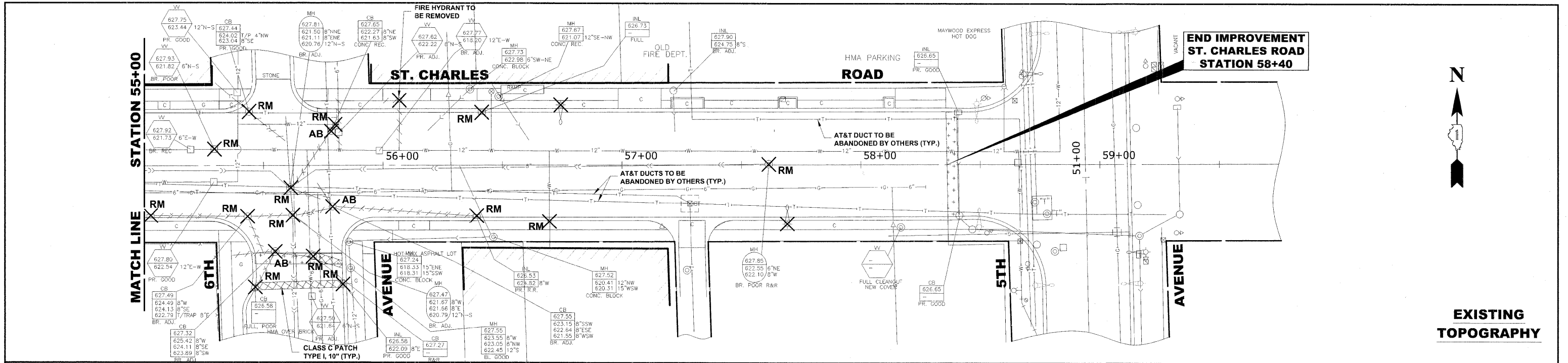
- NOTES:**
1. CONTRACTOR WILL BE RESPONSIBLE FOR CONTACTING PUBLIC UTILITY COMPANY TO ADJUST THEIR STRUCTURES IN THE PUBLIC ROW.
 2. CONTRACTOR WILL BE RESPONSIBLE FOR CONFIRMING ANY LIVE SEWER LINES AND LET ENGINEER KNOW BEFORE ABANDONING OR REMOVING STRUCTURES.
 3. ALL ABANDONED SEWERS SHALL BE PLUGGED AT BOTH ENDS WITH A MINIMUM OF TWO (2) FEET LONG NON-SHRINK CONCRETE OR MORTAR PLUGS.
 4. RESILIENT CONNECTORS (ASTM C-923) SHALL BE PROVIDED BETWEEN STRUCTURES AND PIPES FOR ALL PROPOSED PIPES CONNECTING TO EXISTING AND PROPOSED STRUCTURES AND ALL PROPOSED STRUCTURES CONNECTING TO EXISTING AND PROPOSED PIPES.

PROPOSED IMPROVEMENT



<p>HANCOCK ENGINEERING Civil Engineers Municipal Consultants Established 1911</p>	USER NAME --	DESIGNED -- MK/SBC	REVISED --	STATE OF ILLINOIS DEPARTMENT OF TRANSPORTATION	ST. CHARLES ROAD UTILITIES PLAN AND PROFILE	F.A.U. RTE. 1397	SECTION 09-00129-00-PV	COUNTY COOK	TOTAL SHEETS 103	SHEET NO. 45		
	PLOT SCALE --	CHECKED -- SBC/JG/MV	REVISED --			SCALE: 1"=20'H./2'V.	SHEET NO. 10 OF 11 SHEETS	STA. 49+75	TO STA. 55+00	CONTRACT NO. 63428		
	PLOT DATE --	DATE -- 11-30-09	REVISED --				FED. ROAD DIST. NO. 1 ILLINOIS			FED. AID PROJECT M-9003 (267)		
							(BOOK NOS. 1579, 1583, 1589) E.H.E PROJECT NO. 565-08-29001					

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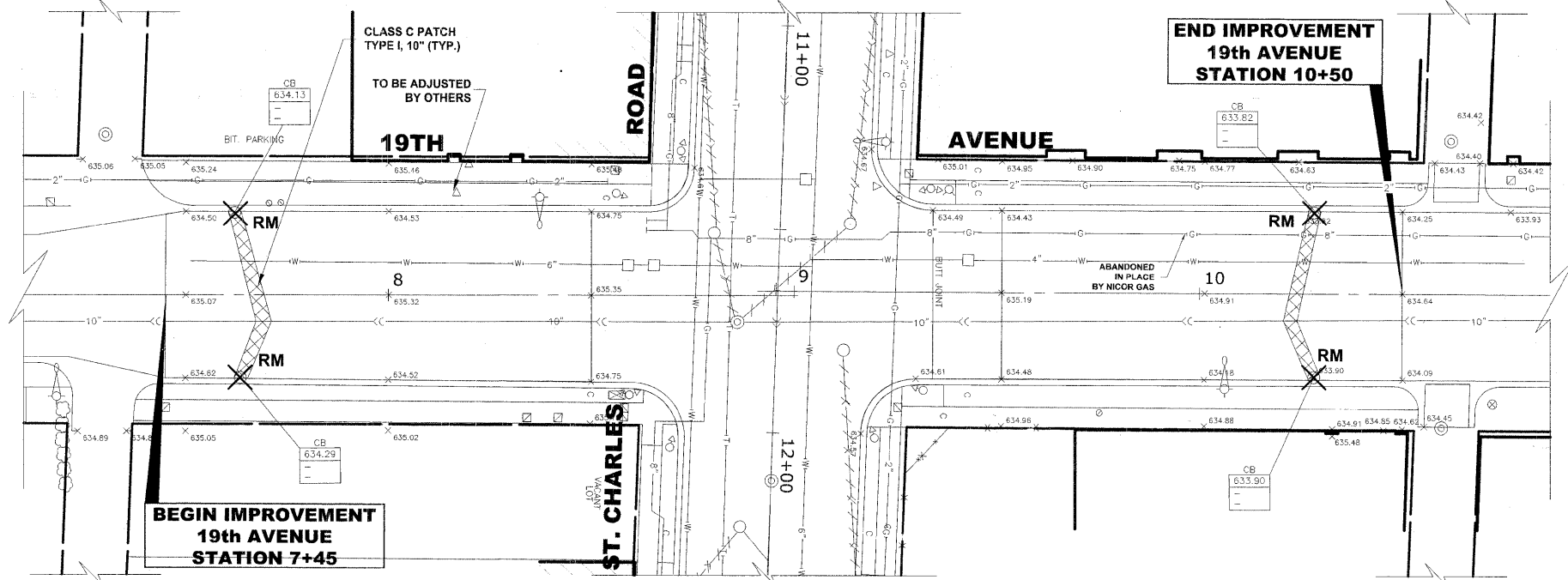


- NOTES:**
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 2. CONTRACTOR WILL BE RESPONSIBLE FOR CONFIRMING ANY LIVE SEWER LINES AND LET ENGINEER KNOW BEFORE ABANDONING OR REMOVING STRUCTURES.
 3. ALL ABANDONED SEWERS SHALL BE PLUGGED AT BOTH ENDS WITH A MINIMUM OF TWO (2) FEET LONG NON-SHRINK CONCRETE OR MORTAR PLUGS.
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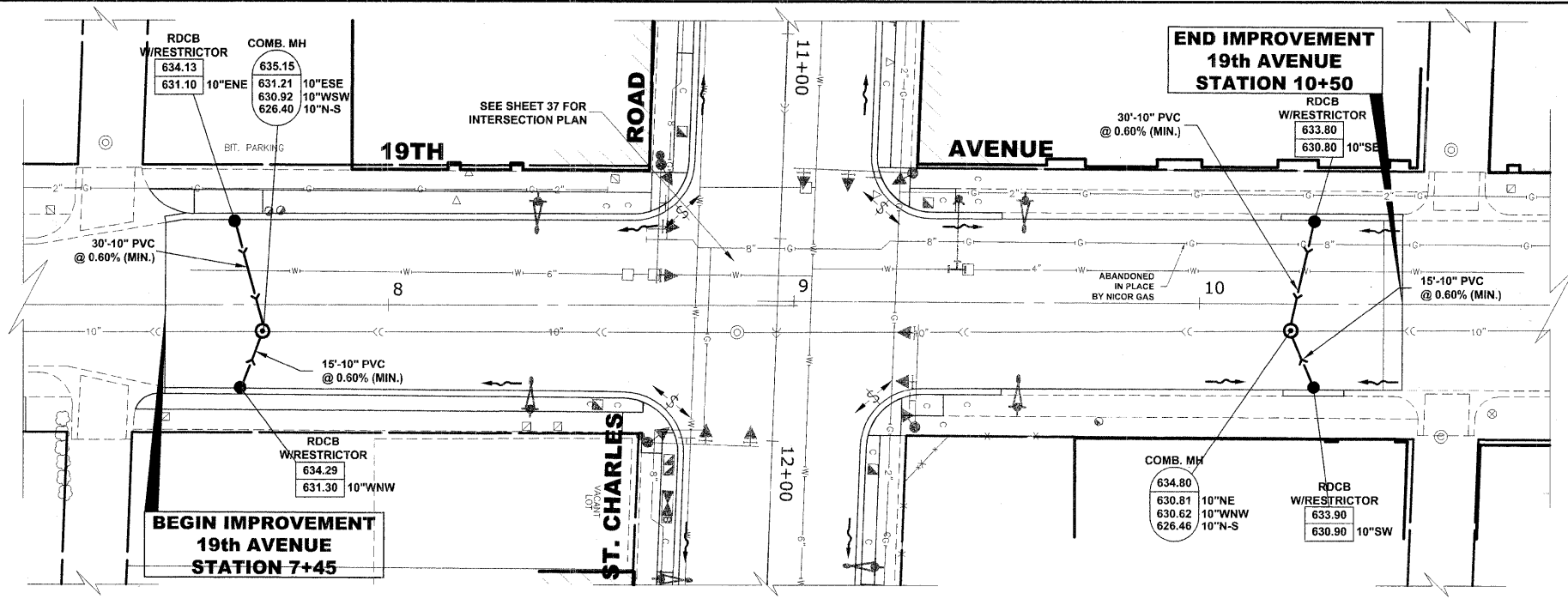
		PROPOSED CENTER LINE		EXISTING CENTER LINE										
627							627							
625							625							
623							623							
621							621							
619	55+00	+25	+62	+76	56+00	+50	57+00	+25	+50	58+00	+40	+56	59+00	619

HANCOCK ENGINEERING Civil Engineers Municipal Consultants Established 1911	USER NAME --	DESIGNED -- MK/SBC	REVISED --	STATE OF ILLINOIS DEPARTMENT OF TRANSPORTATION	ST. CHARLES ROAD UTILITIES PLAN AND PROFILE	F.A.U. RTE. 1397	SECTION 09-00129-00-PV	COUNTY COOK	TOTAL SHEETS 103	SHEET NO. 46
	PLOT SCALE --	CHECKED -- SBC/JG/MV	REVISED --			SCALE: 1"=20'H./2'V.	SHEET NO. 11 OF 11 SHEETS	STA. 55+00 TO STA. 58+40	FED. ROAD DIST. NO. 1 ILLINOIS FED. AID PROJECT M-9003 (267)	
	PLOT DATE --	DATE -- 11-30-09	REVISED --			(BOOK NOS. 1579, 1583, 1589)		E.H.E. PROJECT NO. 565-08-29001		

Drawing File: W:\Projects\565082900 - St. Charles Rd\St. Charles Rd\St. Charles Road.dwg
 Dec 07, 2009 - 5:43pm



EXISTING TOPOGRAPHY



- NOTES:**
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 - CONTRACTOR WILL BE RESPONSIBLE FOR CONFIRMING ANY LIVE SEWER LINES AND LET ENGINEER KNOW BEFORE ABANDONING OR REMOVING STRUCTURES.
 - ALL ABANDONED SEWERS SHALL BE PLUGGED AT BOTH ENDS WITH A MINIMUM OF TWO (2) FEET LONG NON-SHRINK CONCRETE OR MORTAR PLUGS.
 - RESILIENT CONNECTORS (ASTM C-923) SHALL BE PROVIDED BETWEEN STRUCTURES AND PIPES FOR ALL PROPOSED PIPES CONNECTING TO EXISTING AND PROPOSED STRUCTURES AND ALL PROPOSED STRUCTURES CONNECTING TO EXISTING AND PROPOSED PIPES.

PROPOSED IMPROVEMENT

Station	Proposed Center Line	Exist. Centerline
634		
632		
630		
628		
626		

HANCOCK ENGINEERING
 Civil Engineers
 Municipal Consultants
 Established 1911

USER NAME -	DESIGNED - MK/SBC	REVISED -
DRAWN - MK/LEV	CHECKED - SBC/JGMV	REVISED -
DATE - 11-30-09		REVISED -

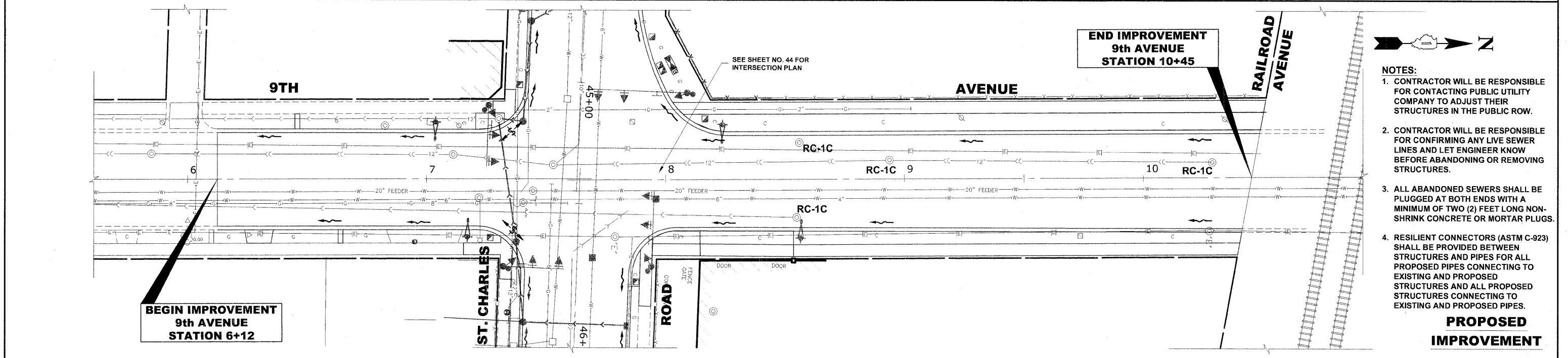
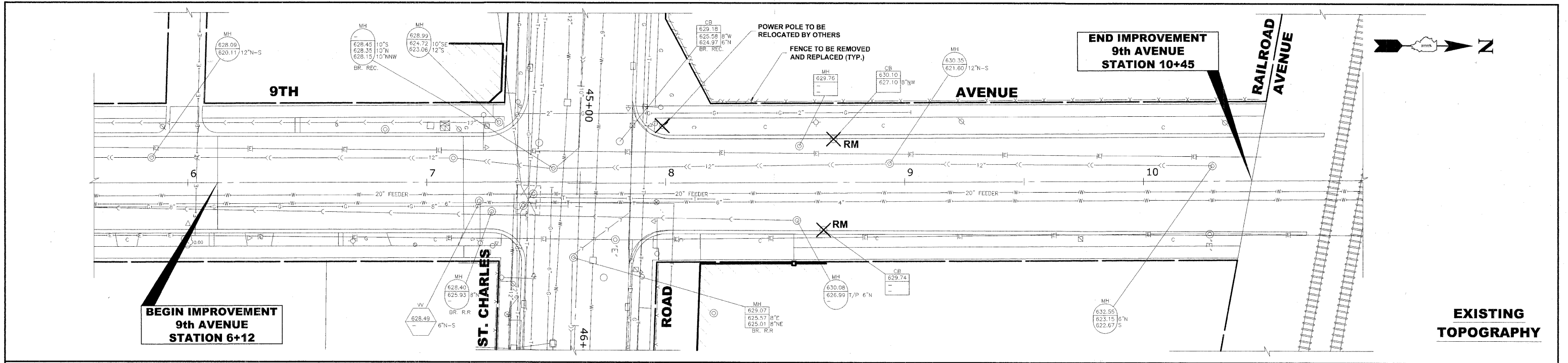
STATE OF ILLINOIS DEPARTMENT OF TRANSPORTATION

19TH AVENUE UTILITIES PLAN AND PROFILE

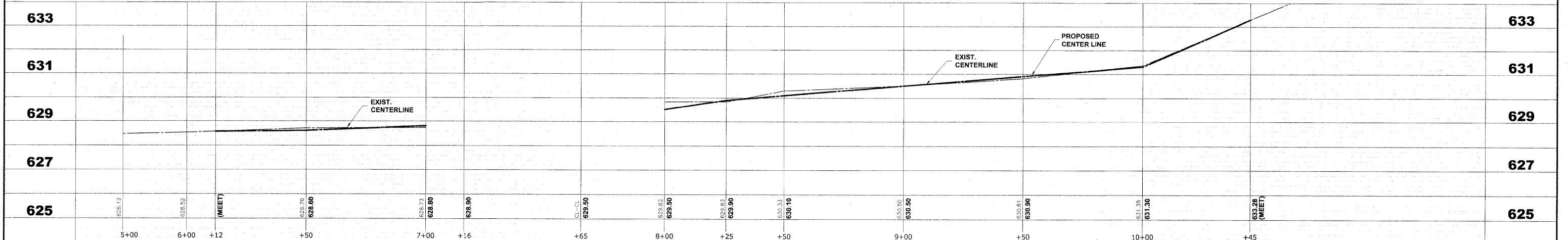
SCALE: 1"=20'H./2V. SHEET NO. 1 OF 1 SHEETS STA. 7+45 TO STA. 10+50

F.A.U. RTE. 1397	SECTION 09-00129-00-PV	COUNTY COOK	TOTAL SHEETS 103	SHEET NO. 47
CONTRACT NO. 63428				
FED. ROAD DIST. NO. 1 ILLINOIS FED. AID PROJECT M-9003 (267)				

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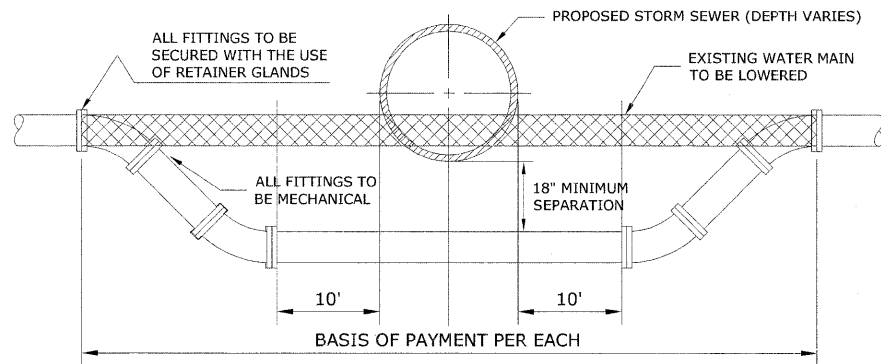


- NOTES:**
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 - CONTRACTOR WILL BE RESPONSIBLE FOR CONFIRMING ANY LIVE SEWER LINES AND LET ENGINEER KNOW BEFORE ABANDONING OR REMOVING STRUCTURES.
 - ALL ABANDONED SEWERS SHALL BE PLUGGED AT BOTH ENDS WITH A MINIMUM OF TWO (2) FEET LONG NON-SHRINK CONCRETE OR MORTAR PLUGS.
 - RESILIENT CONNECTORS (ASTM C-923) SHALL BE PROVIDED BETWEEN STRUCTURES AND PIPES FOR ALL PROPOSED PIPES CONNECTING TO EXISTING AND PROPOSED STRUCTURES AND ALL PROPOSED STRUCTURES CONNECTING TO EXISTING AND PROPOSED PIPES.



HANCOCK ENGINEERING Civil Engineers Municipal Consultants Established 1911	USER NAME -	DESIGNED - MK/SBC	REVISED -	STATE OF ILLINOIS DEPARTMENT OF TRANSPORTATION	9TH AVENUE UTILITIES PLAN AND PROFILE		F.A.U. RTE. 1397	SECTION 09-00129-00-PV	COUNTY COOK	TOTAL SHEETS 103	SHEET NO. 48
	PLOT SCALE -	CHECKED - SBC/JG/MV	REVISED -		SCALE: 1"=20'H./2V.	SHEET NO. 1 OF 1 SHEETS	STA. 6+12 TO STA. 10+45	CONTRACT NO. 63428 FED. ROAD DIST. NO. 1 ILLINOIS FED. AID PROJECT M-9003 (267)			
PLOT DATE -	DATE - 11-30-09	REVISED -								(BOOK NOS. 1579, 1583, 1588) E.H.E PROJECT NO. 565-08-29001	

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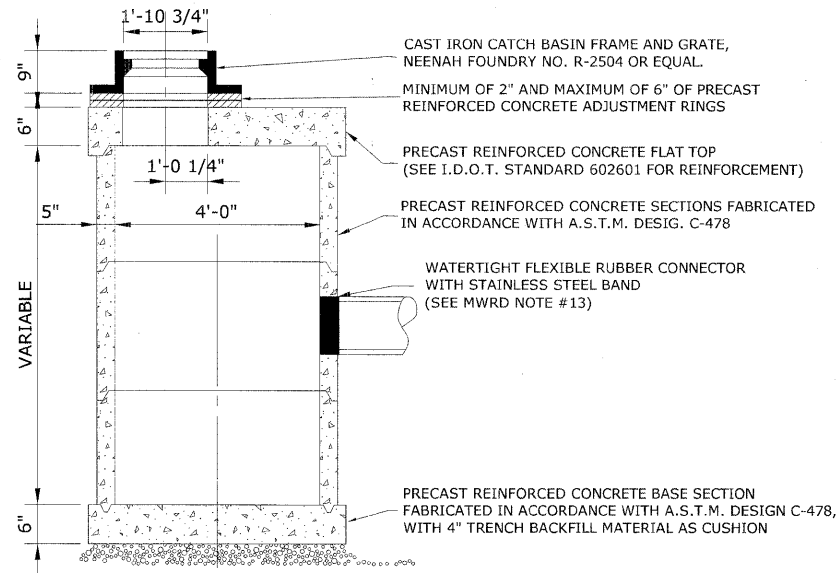


ALL WATER MAIN RELOCATION SHALL BE DONE WITH SHUT DOWN CONNECTIONS

WATER MAIN ADJUSTMENT DETAIL

DUCTILE IRON PIPE SPECIFICATIONS

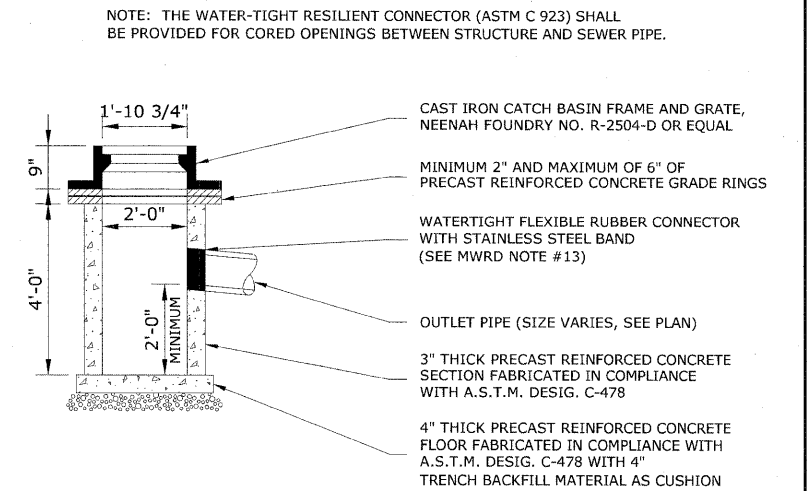
1. ALL DUCTILE IRON PIPE WATER MAINS AND SEWER MAINS SHALL BE CLASS 52, CEMENT-LINED AND TAR-COATED, MEETING THE REQUIREMENTS OF SPECIFICATIONS ANSI/AWWA C151/A21.51 WITH "PUSH-ON" JOINTS MEETING THE REQUIREMENTS OF SPECIFICATIONS ANSI/AWWA C111/A21.11. WHERE SPECIFIED ON THE PLANS, OR IN THE SPECIFICATIONS, MECHANICAL JOINTS AND "LOCK-TYPE" JOINTS SHALL BE USED IN LIEU OF "PUSH-ON" JOINTS.
2. ALL PIPE FITTINGS AND SPECIAL CASTINGS SHALL BE DUCTILE IRON CONFORMING TO ANSI/AWWA C153/A21.53 AND ANSI/AWWA C111/A21.11 SPECIFICATIONS AND SHALL MEET THE MINIMUM REQUIREMENTS OF CLASS 150 DUCTILE IRON PIPE. IF CERTAIN FITTINGS ARE NOT MANUFACTURED IN DUCTILE IRON, CAST IRON FITTINGS SHALL BE ACCEPTABLE. MECHANICAL JOINT TYPE FITTINGS SHALL BE USED.
3. ALL PROPOSED DUCTILE IRON PIPE WATER MAIN AND SEWER MAIN WILL BE ENCASED WITHIN FOUR (4) MIL THICK, HIGH-DENSITY POLYETHYLENE TUBING. ALL FITTINGS SHALL BE ENCASED IN A DOUBLE-LAYER OF POLYETHYLENE TUBING. THE POLYETHYLENE MATERIAL SHALL BE MANUFACTURED AND INSTALLED IN COMPLIANCE WITH ANSI/AWWA C105/A21.5. ALL PROPOSED WATER AND SEWER SERVICES SHALL BE ENCASED IN POLYETHYLENE TUBING FOR A MINIMUM DISTANCE OF THREE FEET (3') FROM THE PROPOSED WATER MAIN AND SEWER MAIN.



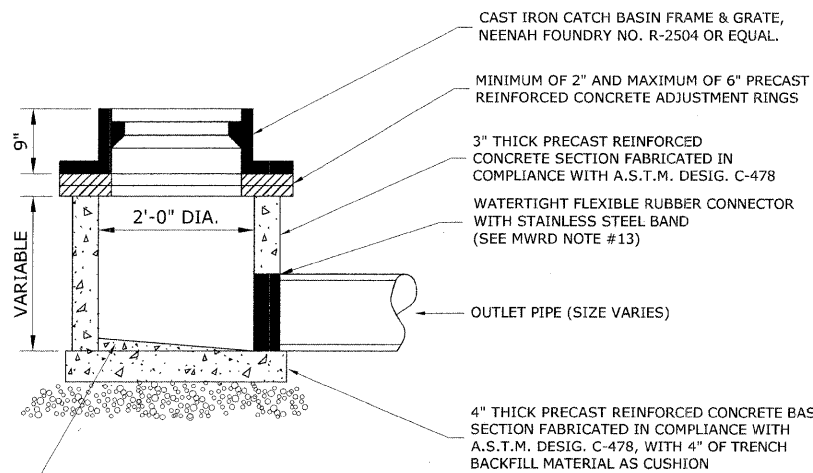
RESTRICTED DEPTH CATCH BASIN

NOTE:

A WATERTIGHT RESILIENT CONNECTOR (ASTM C-923) SHALL BE USED FOR ALL NEW STRUCTURES AND CORED OPENINGS IN EXISTING STRUCTURES BETWEEN STRUCTURE WALL AND SEWER PIPE.



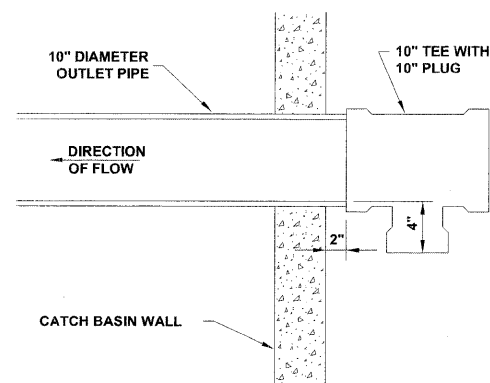
CATCH BASIN, TYPE C



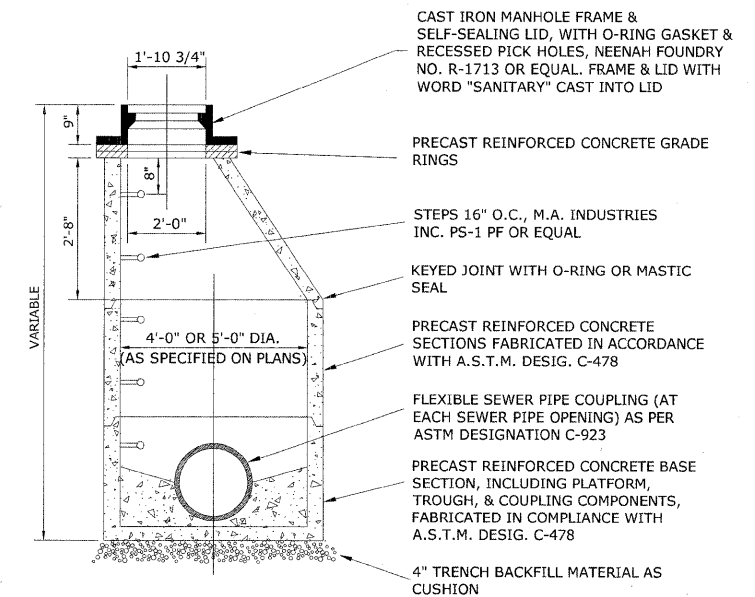
CONCRETE BENCH SLOPE 1\"/>

INLET, TYPE A

NOTE: THE WATER-TIGHT RESILIENT CONNECTOR (ASTM C 923) SHALL BE PROVIDED FOR CORED OPENINGS BETWEEN STRUCTURE AND SEWER PIPE.



(10" X 4") CATCH BASIN RESTRICTOR



NOTE: THE WATER-TIGHT RESILIENT CONNECTOR (ASTM C 923) SHALL BE PROVIDED FOR CORED OPENINGS BETWEEN STRUCTURE AND SEWER PIPE.

STANDARD COMBINED SEWER MANHOLE



USER NAME -	DESIGNED - MK/SBC	REVISED -
PLOT SCALE -	DRAWN - MK/LEV	REVISED -
PLOT DATE -	CHECKED - SBC/JGMV	REVISED -
	DATE - 11-30-09	REVISED -

**STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION**

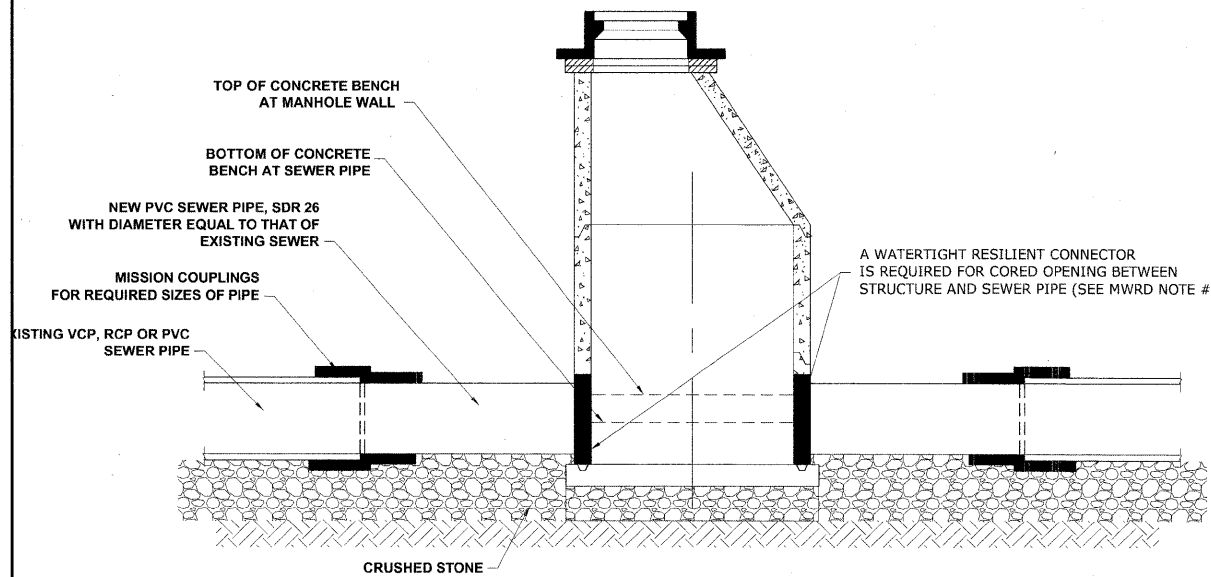
DRAINAGE AND UTILITIES DETAILS

SCALE: NONE SHEET NO. 2 OF 4 SHEETS STA. TO STA.

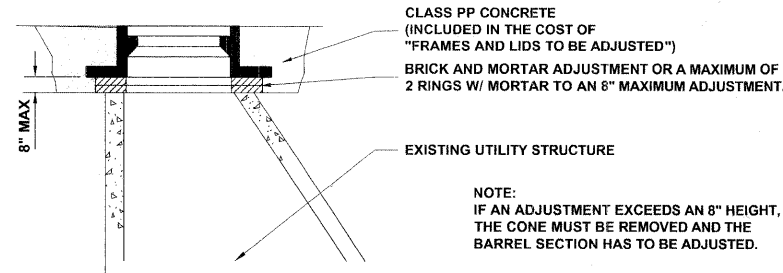
F.A.U. RTE. 1397	SECTION 09-00129-00-PV	COUNTY COOK	TOTAL SHEETS 103	SHEET NO. 49
CONTRACT NO. 63428			FED. ROAD DIST. NO. 1 ILLINOIS FED. AID PROJECT M-9003 (267)	

(BOOK NOS. 1579, 1583, 1589) E.H.E PROJECT NO. 565-08-29001

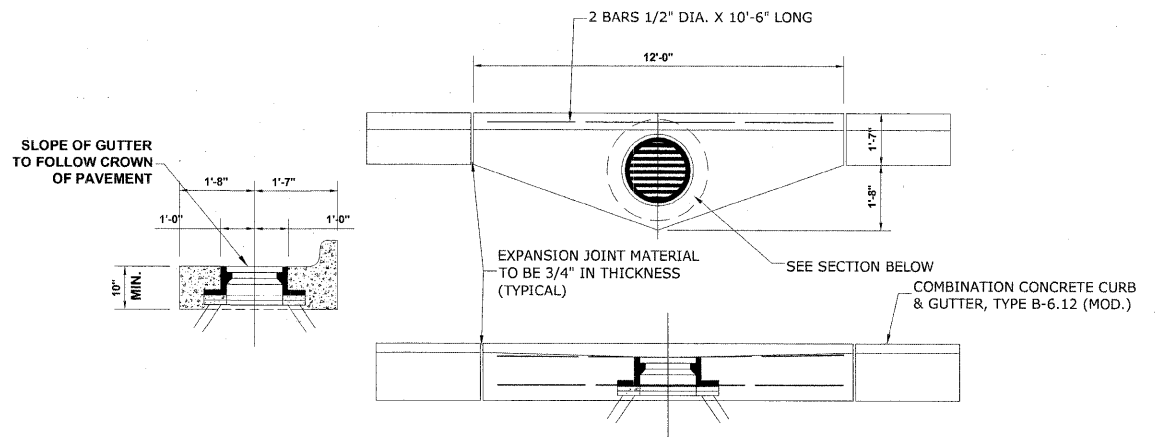
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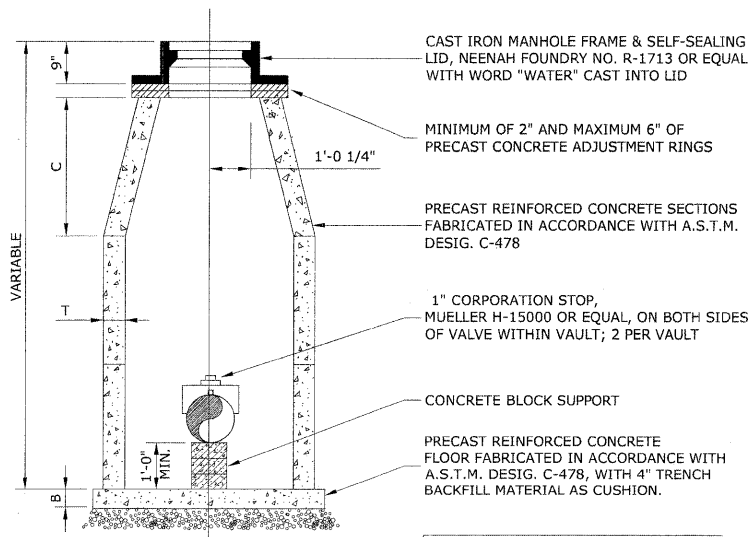
PROPOSED MANHOLE INSTALLED ON EXISTING SEWER MAIN



TYPE 1 FRAME ADJUSTMENT

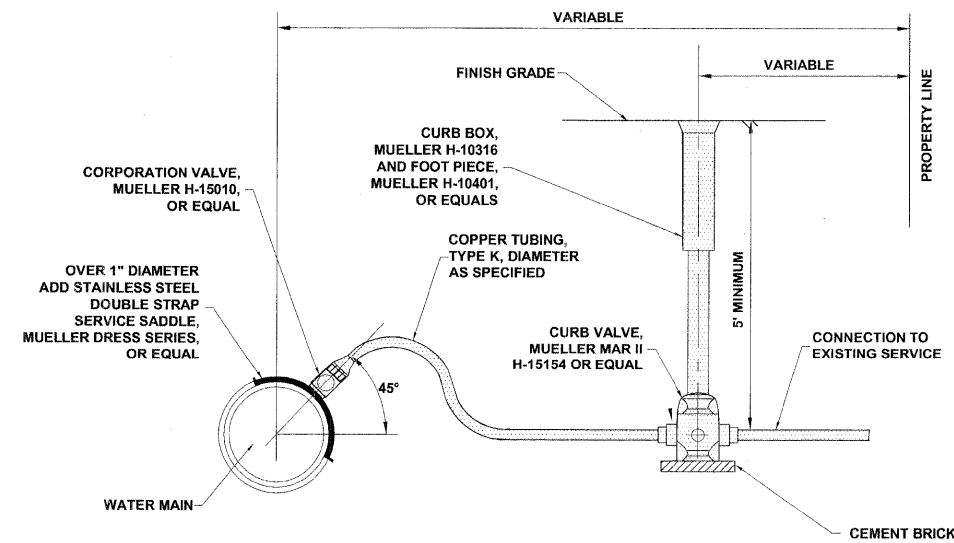


GUTTER DETAIL AT DRAINAGE STRUCTURE

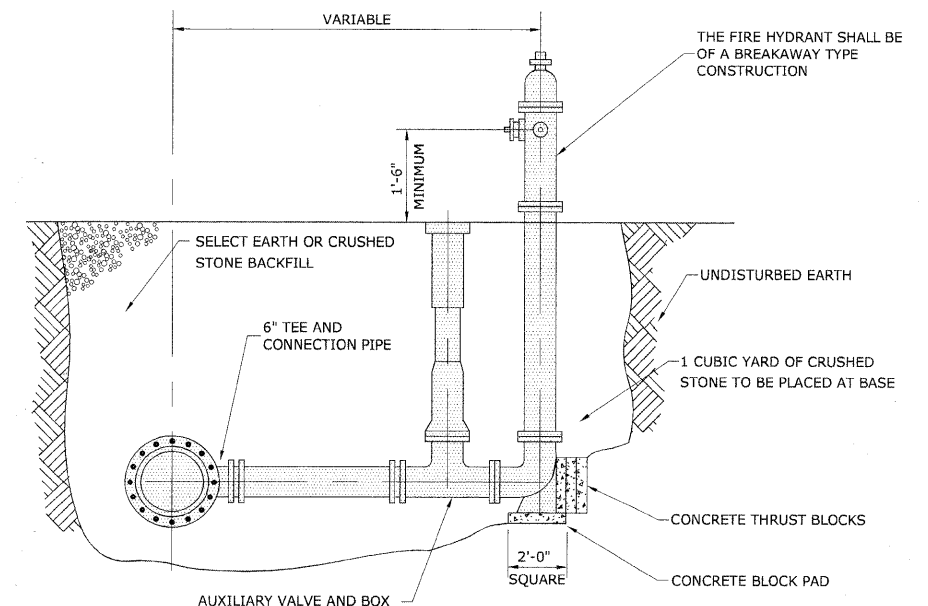


DIMENSIONS			
D	C	T(MIN.)	B
4'-0"	2'-6"	4"	6"
5'-0"	3'-9"	5"	8"

STANDARD VALVE VAULT DETAIL



WATER SERVICE DETAIL



FIRE HYDRANT DETAIL

Drawing file: W:\Projects\65082900 - St. Charles Rd\49_Drainage-Details.dwg Dec 07, 2009 - 10:51am

M.W.R.D.G.C. GENERAL NOTES

1. THE MWRD SEWER SYSTEMS SECTION FIELD OFFICE MUST BE NOTIFIED AT LEAST TWO (2) WORKING DAYS PRIOR TO THE COMMENCEMENT OF WORK AT (708) 588-4055.
2. ELEVATION DATUM IS U.S.G.S.
3. ALL FLOOR DRAINS SHALL DISCHARGE TO THE SANITARY SEWER SYSTEM.
4. ALL DOWNSPOUTS AND FOOTING DRAINS SHALL DISCHARGE INTO THE STORM SEWER SYSTEM.
5. ALL PVC STORM SEWER PIPE JOINTS SHALL CONFORM TO ASTM D-3139. ALL PVC SEWER PIPE 12" IN DIAMETER OR LESS SHALL CONFORM TO ASTM D-2241 (WATER QUALITY PIPE). ALL PVC SEWER PIPE SHALL BE SDR 26.
6. ALL D.I.P. STORM, COMBINED AND SANITARY SEWER PIPE JOINTS SHALL CONFORM TO ASTM A-21.11. ALL D.I.P. SEWER PIPE SHALL CONFORM TO ASTM A-21.51. ALL D.I.P. SEWER PIPE SHALL BE CLASS 52.
7. ALL SANITARY, COMBINED, AND STORM SEWER CONSTRUCTION IN COMBINED SEWER AREAS, REQUIRES STONE BEDDING 1/4" TO 1" IN SIZE, WITH A MINIMUM THICKNESS EQUAL TO 1/4 THE OUTSIDE DIAMETER OF THE SEWER PIPE, BUT NOT LESS THAN FOUR INCHES (4") NOR MORE THAN EIGHT INCHES (8"). MATERIAL SHALL BE CA-11 OR CA-13 AND SHALL BE EXTENDED AT LEAST 12" ABOVE THE TOP OF THE PIPE.
8. "BAND SEAL" OR SIMILAR FLEXIBLE-TYPE COUPLINGS SHALL BE USED IN THE CONNECTION OF SEWER PIPE OF DISSIMILAR MATERIALS.
9. WHEN CONNECTING TO AN EXISTING SEWER MAIN BY MEANS OTHER THAN AN EXISTING WYE, TEE, OR AN EXISTING MANHOLE, ONE OF THE FOLLOWING METHODS SHALL BE USED:
 - a) CIRCULAR SAW-CUT OF SEWER MAIN BY PROPER TOOLS ("SEWER TAP" MACHINE, OR SIMILAR) AND PROPER INSTALLATION OF HUB-WYE SADDLE OR HUB-TEE SADDLE.
 - b) REMOVE AN ENTIRE SECTION OF PIPE (BREAKING ONLY THE TOP OF ONE BELL) AND REPLACE WITH A WYE OR TEE BRANCH SECTION. AFTER THE WYE OR TEE BRANCH IS INSERTED, CONCRETE SHALL BE PLACED OVER THE BROKEN AREA TO A MINIMUM THICKNESS OF 4" AND TO A DIMENSION OF 8" IN ALL DIRECTIONS.
 - c) USING PIPE CUTTER, NEATLY AND ACCURATELY CUT OUT DESIRED LENGTH OF PIPE FOR INSERTION OF PROPER FITTING. USE "BAND SEAL" OR SIMILAR COUPLINGS TO HOLD FIRMLY IN PLACE. FOLLOW MANUFACTURER'S RECOMMENDATIONS FOR THE INSTALLATION.
10. WHEREVER A SEWER CROSSES UNDER A WATER MAIN, THE MINIMUM VERTICAL DISTANCE FROM THE TOP OF THE SEWER TO THE BOTTOM OF THE WATER MAIN SHALL BE 18 INCHES. FURTHERMORE, A MINIMUM HORIZONTAL DISTANCE OF 10 FEET BETWEEN SANITARY/COMBINED SEWERS AND WATER MAINS SHALL BE MAINTAINED UNLESS: THE SEWER IS LAID IN A SEPARATE TRENCH, KEEPING A MINIMUM 18" VERTICAL SEPARATION; OR THE SEWER IS LAID IN THE SAME TRENCH WITH THE WATER MAIN LOCATED AT THE OPPOSITE SIDE ON A BENCH OF UNDISTURBED EARTH, KEEPING A MINIMUM 18" VERTICAL SEPARATION. IF EITHER THE VERTICAL OR HORIZONTAL DISTANCES DESCRIBED ABOVE CANNOT BE MAINTAINED, OR THE SEWER CROSSES ABOVE THE WATER MAIN, THE SEWER SHALL BE CONSTRUCTED TO WATER MAIN STANDARDS.
11. ALL SANITARY MANHOLES, (AND STORM MANHOLES IN COMBINED SEWER AREAS), SHALL HAVE A MINIMUM INSIDE DIAMETER OF 48 INCHES, AND SHALL BE PRE-CAST REINFORCED CONCRETE.
12. ALL ABANDONED SEWERS SHALL BE PLUGGED AT BOTH ENDS WITH A MINIMUM OF TWO (2) FEET LONG, NON-SHRINK CONCRETE/MORTAR PLUG.
13. ALL INLET AND OUTLET PIPES OF SANITARY SEWER MANHOLES AND OTHER UNDERGROUND STRUCTURES (AND IN COMBINED SEWER AREAS, ALSO ALL COMBINED/STORM SEWER MANHOLES, CATCH BASINS, INLETS, AND UNDERGROUND DETENTION STORAGE STRUCTURES) SHALL BE JOINED WITH WATERTIGHT FLEXIBLE RUBBER CONNECTORS CONFORMING TO A.S.T.M. C-443 & C-923 WITH STAINLESS STEEL BANDS.
14. THE MAXIMUM ALLOWABLE INFILTRATION OR EXFILTRATION IS 100 GAL/DAY/MILE/INCH DIA OF THE SEWER PIPE.

DRAINAGE AND UTILITIES NOTES

THE LOCATIONS OF EXISTING DRAINAGE STRUCTURES, STORM SEWERS, COMBINED SEWERS, TELEPHONE LINES, COMMUNICATION LINES, ELECTRIC LINES, GAS MAINS, AND WATER SERVICES ARE APPROXIMATE AND THEIR SPECIFIC LOCATIONS ARE TO BE DETERMINED IN THE FIELD AT NO COMPENSATION TO THE CONTRACTOR.

COORDINATION OF ALL UTILITY WORK INVOLVED WITHIN THE CONSTRUCTION AREAS SHALL BE SUBJECT TO DISCUSSION AND CLARIFICATION AT A PRECONSTRUCTION MEETING.

WHEN EXISTING DRAINAGE FACILITIES ARE DISTURBED, THE CONTRACTOR SHALL PROVIDE AND MAINTAIN TEMPORARY OUTLETS AND CONNECTIONS FOR ALL PRIVATE OR PUBLIC DRAINAGE STRUCTURES OR SEWERS UNTIL PERMANENT CONNECTIONS TO SEWERS ARE BUILT AND IN SERVICE. THIS WORK SHALL NOT BE PAID FOR DIRECTLY, BUT SHALL BE CONSIDERED INCIDENTAL TO THE CONTRACT.

WHEN, DURING CONSTRUCTION OPERATIONS, ANY LOOSE MATERIALS ARE DEPOSITED IN THE FLOW LINES OF GUTTERS OR DRAINAGE STRUCTURES SO THAT THE NATURAL FLOW OF WATER IS OBSTRUCTED, THE OBSTRUCTING MATERIALS SHALL BE REMOVED AT THE CLOSE OF EACH WORK DAY. AT THE CONCLUSION OF THE CONSTRUCTION OPERATIONS, ALL DRAINAGE STRUCTURES ARE TO BE FREE OF ALL DIRT, DEBRIS, AND OBSTRUCTING MATERIALS. THE WORK SPECIFIED ABOVE WILL NOT BE PAID FOR SEPARATELY, BUT SHALL BE CONSIDERED AS INCIDENTAL TO THE CONTRACT.

ALL COSTS INVOLVED IN CONNECTING OF PROPOSED STORM SEWERS AND STORM STRUCTURES TO EXISTING STORM SEWERS OR PROPOSED STORM SEWERS SHALL BE CONSIDERED INCLUDED IN THE COST OF PROPOSED ITEMS BEING CONSTRUCTED.

ALL PROPOSED WATER MAINS SHALL BE INSTALLED IN ACCORDANCE WITH IN THE "STANDARD SPECIFICATIONS FOR WATER AND SEWER MAIN CONSTRUCTION IN ILLINOIS", FIFTH EDITION, DATED 1996, AND ALL REVISIONS THERETO.

THE CONTRACTOR SHALL VERIFY THE TYPE OF ALL WATER MAIN HARDWARE INCLUDING VALVES, FIRE HYDRANTS, VALVE BOXES, CORPORATION STOPS, CURB STOPS, AND WATER SERVICES BOXES WITH THE UTILITY SUPERINTENDENT PRIOR TO ORDERING SUCH MATERIAL.

THE TYPE OF FRAMES AND GRATES REQUIRED FOR ALL CATCH BASINS AND MANHOLES LISTED IN THE SUMMARY OF QUANTITIES MAY BE FOUND ON THE PLANS AT THEIR RESPECTIVE LOCATIONS. WHERE LIDS ARE CALLED FOR ON THE PLANS, THEY SHALL BE IN ACCORDANCE WITH ARTICLE 604.01 OF THE STANDARD SPECIFICATIONS AND THE TERM LID IS USED IN LIEU OF GRATE.

ON ALL IMPROVEMENTS, THE FRAMES AND LIDS OF EXISTING CATCH BASINS, INLETS, MANHOLES, AND VALVE VAULTS WHICH ARE TO BE ABANDONED DUE TO CONSTRUCTION OF THIS IMPROVEMENT ARE TO REMAIN THE PROPERTY OF THE VILLAGE OF MAYWOOD AND BE SALVAGED. THE CONTRACTOR IS TO DELIVER FRAMES AND LIDS TO THE VILLAGE OF MAYWOOD PUBLIC WORKS YARD LOCATED AT 40 MADISON STREET.

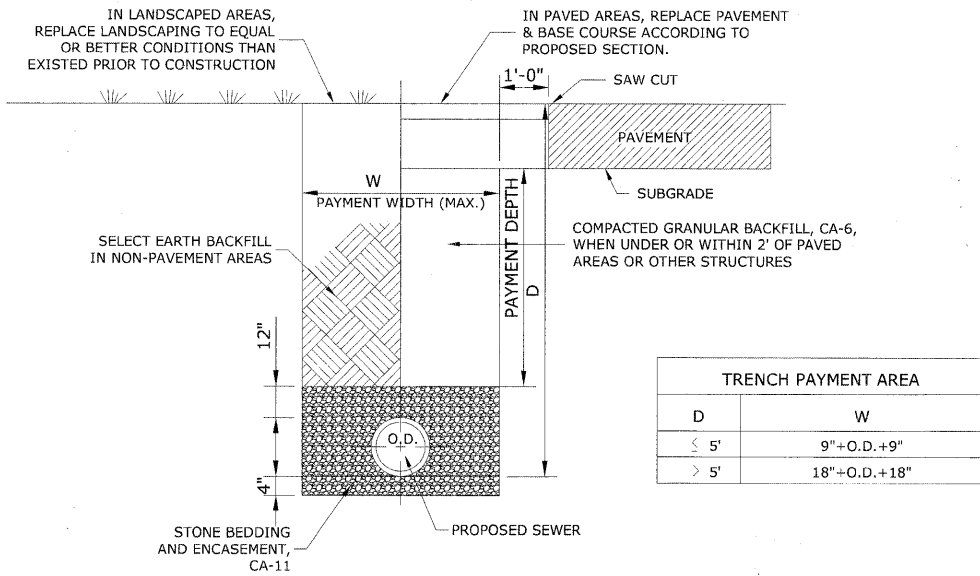
ANY COSTS FOR SHEETING OR SHORING REQUIRED FOR THE STORM SEWER INSTALLATION OR OTHER CONSTRUCTION ELEMENTS REQUIRING RELATIVELY DEEP EXCAVATIONS SHALL BE INCLUDED IN THE PARTICULAR PAYMENT ITEM AND NO ADDITIONAL COMPENSATION WILL BE ALLOWED FOR ANY SUPPLEMENTAL WORK ASSOCIATED WITH THE MAINTENANCE OF TRENCH SIDES OR OTHER EXCAVATED AREAS.

UNLESS OTHERWISE SPECIFIED, ABANDONED SEWERS AND DRAINS, AS DESIGNATED BY THE ENGINEER, SHALL BE PLUGGED WITH CLASS "SI" CONCRETE OR BRICK AND SUITABLE MORTAR TO THE SATISFACTION OF THE ENGINEER. THIS WORK SHALL NOT BE PAID FOR SEPARATELY, BUT SHALL BE INCLUDED IN THE PAY ITEMS FOR REMOVING AND/OR FILLING THE VARIOUS TYPES OF STRUCTURES.

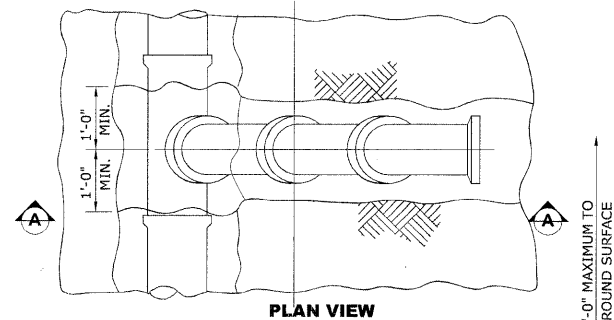
SEWER PIPE INSTALLED ON THIS PROJECT SHALL CONFORM TO THE FOLLOWING STANDARD:

TYPE OF PIPE	MATERIAL STANDARD	JOINT STANDARD
REINFORCED CONCRETE PIPE	ASTM C-76	ASTM C-443
POLYVINYLCHLORIDE PIPE, SDR 26	ASTM D-2241	ASTM D-3139
DUCTILE IRON PIPE, CLASS 52	ASTM A-21.51	ASTM A-21.11

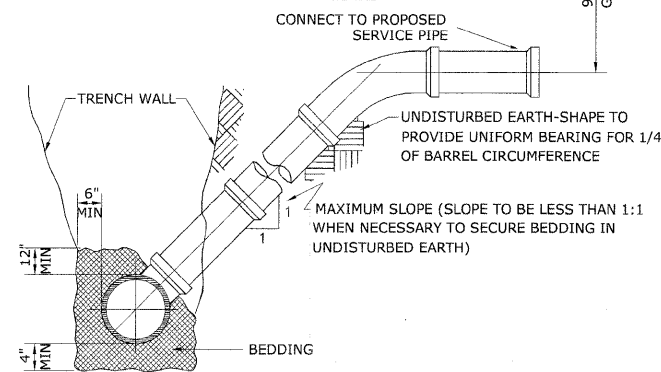
FINAL ADJUSTMENT OF ALL STRUCTURES IN THE PAVEMENT, INCLUDING THOSE IN THE PROPOSED BASE COURSE, SHALL NOT BE COMPLETED UNTIL AFTER THE PLACEMENT OF THE BITUMINOUS CONCRETE BINDER COURSE ON 19TH AVE. (NORTH AND SOUTH) AND 9TH AVE. (SOUTH).



TYPICAL SEWER TRENCH DETAIL



PLAN VIEW



SECTION A-A VIEW

TYPICAL RISER FOR SERVICE LATERAL

Drawing file: W:\Projects\05002900 - St. Charles Rd\49_Drainage-Details.dwg Dec 07, 2009 - 3:04pm

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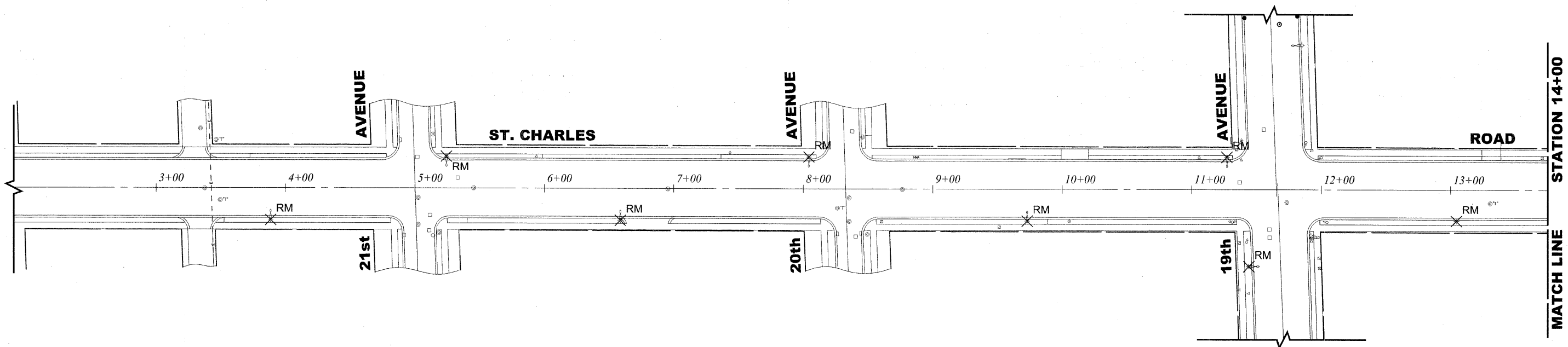
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PLOT SCALE -	DRAWN - MK/LEV	REVISED -
PLOT DATE -	CHECKED - SBC/JG/MV	REVISED -
	DATE - 11-30-09	REVISED -

**STATE OF ILLINOIS
 DEPARTMENT OF TRANSPORTATION**

DRAINAGE AND UTILITIES DETAILS

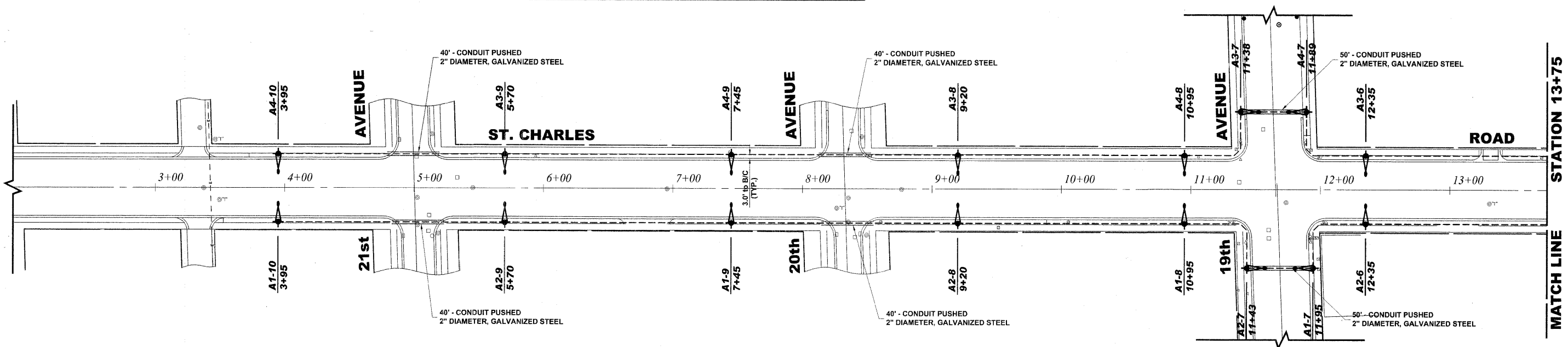
SCALE: NONE SHEET NO. 4 OF 4 SHEETS STA. TO STA.

F.A.U. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
1397	09-00129-00-PV	COOK	103	51
CONTRACT NO. 63428				
FED. ROAD DIST. NO. 1 ILLINOIS FED. AID PROJECT M-9003 (267)				
(BOOK NOS. 1579, 1583, 1589) E.H.E PROJECT NO. 565-08-29001				



LEGEND OF SYMBOLS			
	EXISTING POST TOP LIGHT POLE AND FIXTURE TO BE REMOVED		EXISTING OVERHEAD WIRING
	EXISTING LIGHT POLE AND FIXTURE TO BE REMOVED		PROPOSED UNIT DUCT WITH 3-1/2" No. 6 & 1-1/2" No. 8 GROUND, 600V (XLP-(TYPE USE)), 1" DIAMETER OR AS NOTED, BORED & PULLED
	PROPOSED 35' MH POLE WITH 6' ARM & 250 WATT METAL HALIDE LAMP		PROPOSED GALVANIZED STEEL CONDUIT IN TRENCH OR PUSHED AS NOTED
	PROPOSED CONTROL CENTER		CONTROLLER IDENTIFICATION (TYP.)
			CIRCUIT NUMBER (TYP.)
			POLE NUMBER (TYP.)
			STATION NUMBER (TYP.)

EXISTING TOPOGRAPHY



PROPOSED IMPROVEMENT

Drawing file: W:\Projects\15502290 - St. Charles Rd\50_St. Charles Lighting.dwg Nov 30, 2009 - 2:53pm

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9435 Rivercrest Blvd
 Westchester, Illinois 60154-2780
 Phone: 708.963.0300
 Fax: 708.963.1312

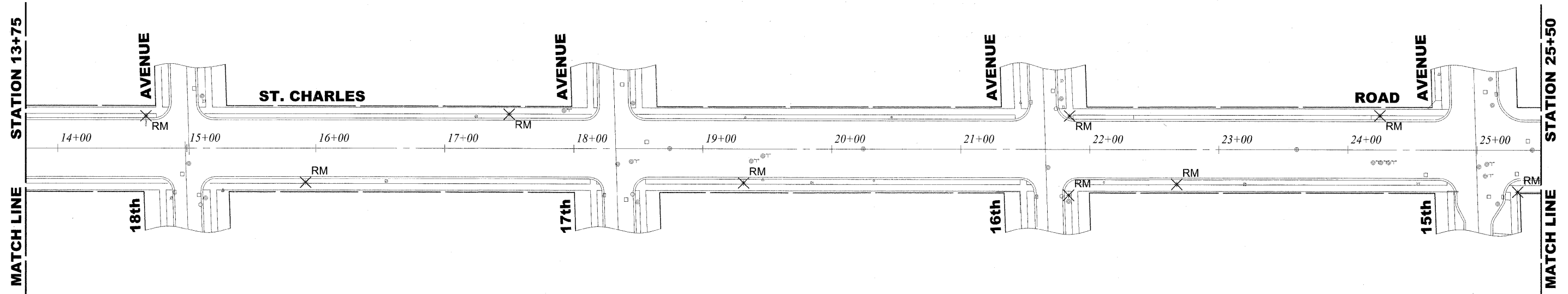
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PLOT SCALE -	DRAWN - MK/LEV	REVISED -
PLOT DATE -	CHECKED - SBC/JGMV	REVISED -
	DATE - 11-30-09	REVISED -

**STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION**









ILLUMINATION PLAN

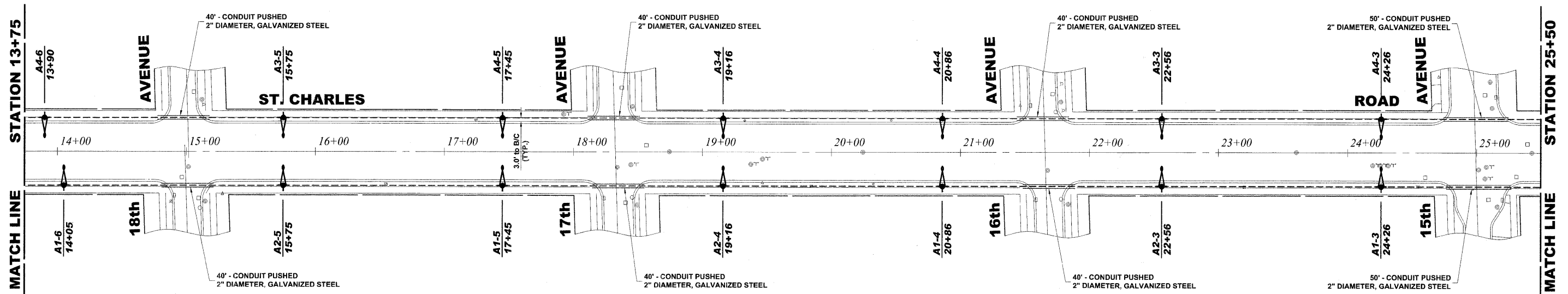
SCALE: 1" = 40' SHEET NO. 1 OF 5 SHEETS STA. 3+50 TO STA. 13+75

F.A.U. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
1397	09-00129-00-PV	COOK	103	52
CONTRACT NO. 63428			FED. ROAD DIST. NO. 1 ILLINOIS FED. AID PROJECT M-9003 (267)	
(BOOK NOS. 1579, 1583, 1589) E.H.E PROJECT NO. 565-08-29001				



EXISTING TOPOGRAPHY

LEGEND OF SYMBOLS	
	EXISTING POST TOP LIGHT POLE AND FIXTURE TO BE REMOVED
	EXISTING LIGHT POLE AND FIXTURE TO BE REMOVED
	PROPOSED 35' MH POLE WITH 6' ARM & 250 WATT METAL HALIDE LAMP
	PROPOSED CONTROL CENTER
	EXISTING OVERHEAD WIRING
	PROPOSED UNIT DUCT WITH 3-1/C No.6 & 1-1/C No.8 GROUND, 600V (XLP-(TYPE USE)), 1" DIAMETER OR AS NOTED, BORED & PULLED
	PROPOSED GALVANIZED STEEL CONDUIT IN TRENCH OR PUSHED AS NOTED
	CONTROLLER IDENTIFICATION (TYP.) CIRCUIT NUMBER (TYP.) POLE NUMBER (TYP.) STATION NUMBER (TYP.)



PROPOSED IMPROVEMENT

Drawing file: W:\Projects\565082900 - St. Charles Rd\50_151 - St. Charles Lighting.dwg Nov 30, 2009 2:52pm

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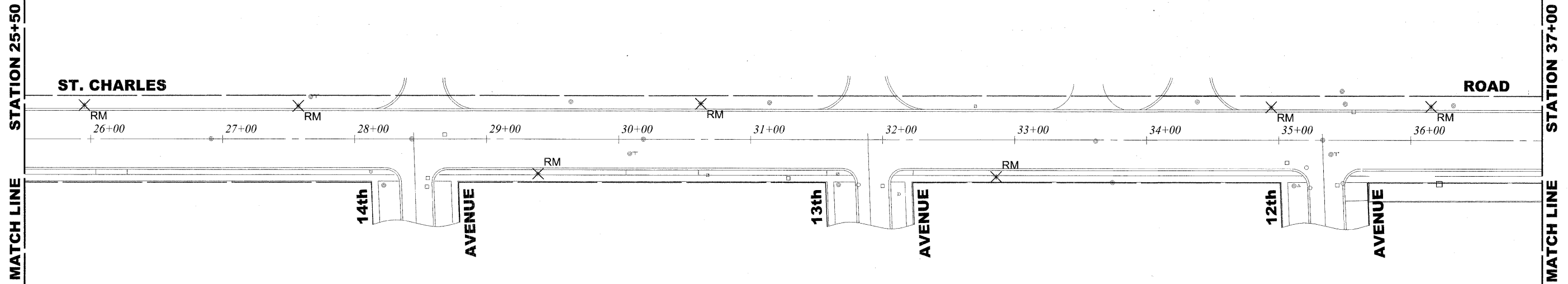
9933 Riverchase Blvd
 Westchester, Illinois 60591-2796
 Phone: 708.962.1300
 Fax: 708.962.1322

USER NAME -	DESIGNED - MK/SBC	REVISED -
PLOT SCALE -	DRAWN - MK/LEV	REVISED -
PLOT DATE -	CHECKED - SBC/JG/MV	REVISED -
	DATE - 11-30-09	REVISED -

**STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION**

ILLUMINATION PLAN
 SCALE: 1" = 40'
 SHEET NO. 2 OF 5 SHEETS
 STA. 13+75 TO STA. 25+50

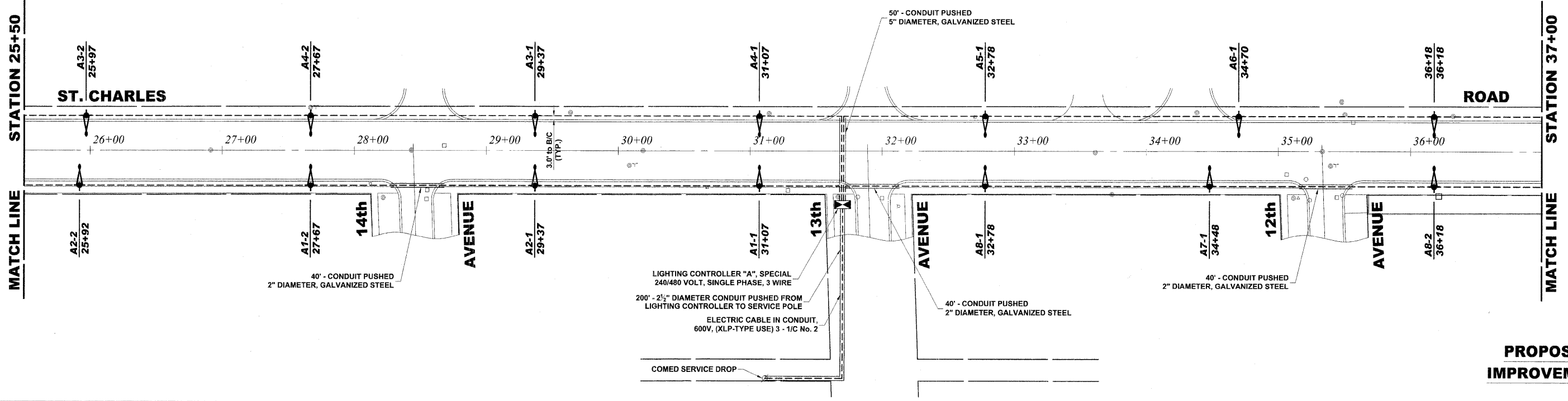
F.A.U. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
1397	09-00129-00-PV	COOK	103	53
FED. ROAD DIST. NO. 1 ILLINOIS FED. AID PROJECT M-9003 (267)			CONTRACT NO. 63428	
(BOOK NOS. 1579, 1583, 1589) E.H.E. PROJECT NO. 565-08-29001				



LEGEND OF SYMBOLS

	EXISTING POST TOP LIGHT POLE AND FIXTURE TO BE REMOVED		EXISTING OVERHEAD WIRING
	EXISTING LIGHT POLE AND FIXTURE TO BE REMOVED		PROPOSED UNIT DUCT WITH 3-1/C No.6 & 1-1/C No.8 GROUND, 600V (XLP-(TYPE USE)), 1" DIAMETER OR AS NOTED, BORED & PULLED
	PROPOSED 35' MH POLE WITH 6' ARM & 250 WATT METAL HALIDE LAMP		PROPOSED GALVANIZED STEEL CONDUIT IN TRENCH OR PUSHED AS NOTED
	PROPOSED CONTROL CENTER		CONTROLLER IDENTIFICATION (TYP.)
			CIRCUIT NUMBER (TYP.)
			POLE NUMBER (TYP.)
			STATION NUMBER (TYP.)

EXISTING TOPOGRAPHY



PROPOSED IMPROVEMENT

Drawing file: W:\Projects\565082900 - St. Charles Rd\52_St. Charles Lighting.dwg Nov 30, 2009 - 2:52pm

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PLOT SCALE -	DRAWN - MK/LEV	REVISED -
PLOT DATE -	CHECKED - SBC/JGMV	REVISED -
	DATE - 11-30-09	REVISED -

STATE OF ILLINOIS DEPARTMENT OF TRANSPORTATION

ILLUMINATION PLAN

SCALE: 1" = 40' SHEET NO. 3 OF 5 SHEETS STA. 25+50 TO STA. 37+00

F.A.U. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
1397	09-00129-00-PV	COOK	103	54
CONTRACT NO. 63428			M-9003 (267)	
FED. ROAD DIST. NO. 1 ILLINOIS FED. AID PROJECT (BOOK NOS. 1579, 1583, 1589) E.H.E PROJECT NO. 565-08-29001				

STATION 37+00
MATCH LINE

STATION 48+25
MATCH LINE

ST. CHARLES ROAD

11th AVENUE

AVENUE

10th AVENUE

AVENUE












AVENUE

9th AVENUE

ROAD

37+00 38+00 39+00 40+00 41+00 42+00 43+00 44+00 45+00 46+00 47+00 48+00



LEGEND OF SYMBOLS	
	EXISTING POST TOP LIGHT POLE AND FIXTURE TO BE REMOVED
	EXISTING LIGHT POLE AND FIXTURE TO BE REMOVED
	PROPOSED 35' MH POLE WITH 6' ARM & 250 WATT METAL HALIDE LAMP
	PROPOSED CONTROL CENTER
	EXISTING OVERHEAD WIRING
	PROPOSED UNIT DUCT WITH 3-1/C No.6 & 1-1/C No.8 GROUND, 600V (XLP-(TYPE USE)), 1" DIAMETER OR AS NOTED, BORED & PULLED
	PROPOSED GALVANIZED STEEL CONDUIT IN TRENCH OR PUSHED AS NOTED
	CONTROLLER IDENTIFICATION (TYP.)
	CIRCUIT NUMBER (TYP.)
	POLE NUMBER (TYP.)
	STATION NUMBER (TYP.)

STATION 37+00
MATCH LINE

STATION 48+25
MATCH LINE

ST. CHARLES ROAD

11th AVENUE

AVENUE

10th AVENUE

AVENUE

AVENUE

9th AVENUE

ROAD

37+00 38+00 39+00 40+00 41+00 42+00 43+00 44+00 45+00 46+00 47+00 48+00



40' - CONDUIT PUSHED
2" DIAMETER, GALVANIZED STEEL

40' - CONDUIT PUSHED
2" DIAMETER, GALVANIZED STEEL

50' - CONDUIT PUSHED
2" DIAMETER, GALVANIZED STEEL

50' - CONDUIT PUSHED
2" DIAMETER, GALVANIZED STEEL

A6-2
37+88

A5-3
39+59

A6-3
41+29

A5-4
42+99

A6-4
44+70

A5-6
46+25

A6-6
48+00

A7-2
37+88

A8-3
39+59

A7-3
41+29

A8-4
42+99

A7-4
44+70

A8-6
46+25

A7-6
48+10

A5-5
45+75

A6-5
45+61

A8-5
45+79

A7-5
45+66

EXISTING TOPOGRAPHY

Drawing file: W:\Projects\36508290 - St. Charles Rd\52_St. Charles Lighting.dwg Nov 30, 2009 - 2:52pm

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9033 Research Blvd
 Woodbury, Illinois 60527-7780
 Phone: 708.662.8100
 Fax: 708.662.1202

USER NAME --	DESIGNED -- MK/SBC	REVISED --
PLOT SCALE --	DRAWN -- MK/LEV	REVISED --
PLOT DATE --	CHECKED -- SBC/JG/MV	REVISED --
	DATE -- 11-30-09	REVISED --

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

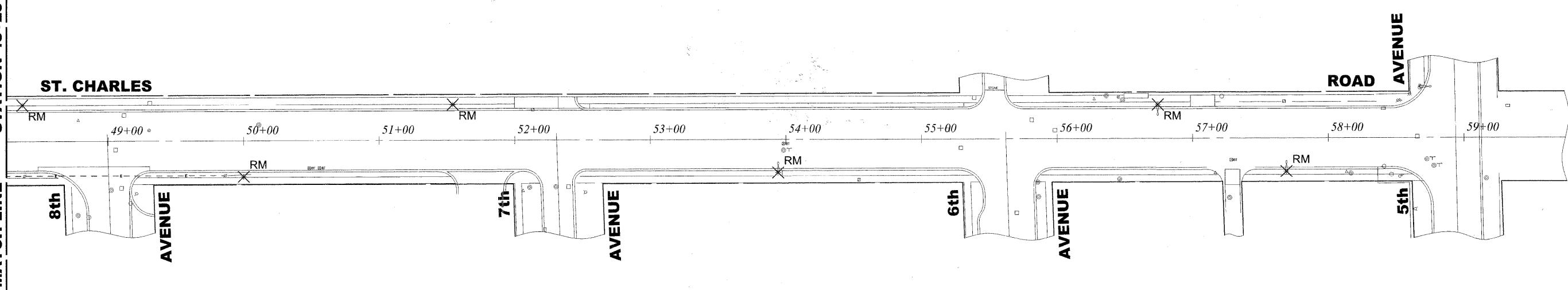
ILLUMINATION PLAN

SCALE: 1" = 40' SHEET NO. 4 OF 5 SHEETS STA. 37+00 TO STA. 48+25

F.A.U. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
1397	09-00129-00-PV	COOK	103	55
FED. ROAD DIST. NO. 1 ILLINOIS / FED. AID PROJECT M-9003 (267)			CONTRACT NO. 63428	
(BOOK NOS. 1579, 1583, 1589) E.H.E PROJECT NO. 565-08-29001				



STATION 48+25
MATCH LINE



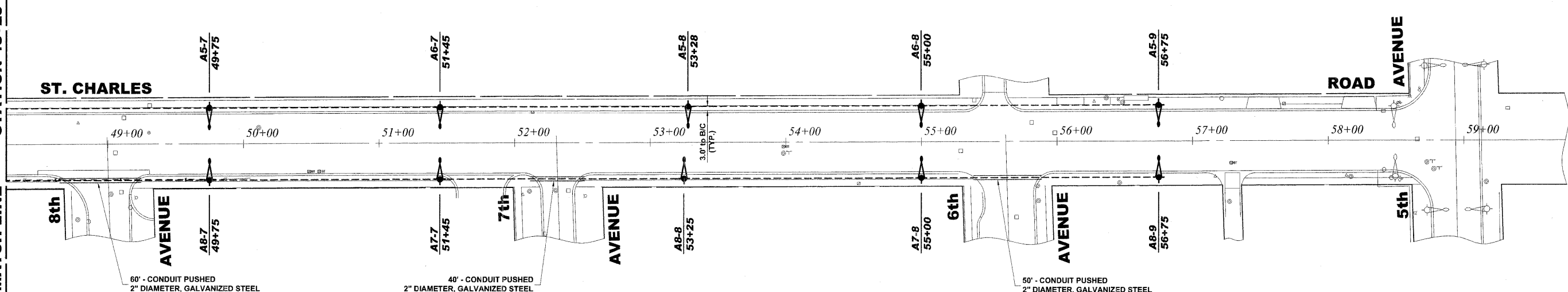
EXISTING TOPOGRAPHY

LEGEND OF SYMBOLS

	EXISTING POST TOP LIGHT POLE AND FIXTURE TO BE REMOVED		EXISTING OVERHEAD WIRING
	EXISTING LIGHT POLE AND FIXTURE TO BE REMOVED		PROPOSED UNIT DUCT WITH 3-1/2" No. 6 & 1-1/2" No. 8 GROUND, 600V (XLP-(TYPE USE)), 1" DIAMETER OR AS NOTED, BORED & PULLED
	PROPOSED 35' MH POLE WITH 6' ARM & 250 WATT METAL HALIDE LAMP		PROPOSED GALVANIZED STEEL CONDUIT IN TRENCH OR PUSHED AS NOTED
	PROPOSED CONTROL CENTER		CONTROLLER IDENTIFICATION (TYP.)
			CIRCUIT NUMBER (TYP.)
			POLE NUMBER (TYP.)
			STATION NUMBER (TYP.)



STATION 48+25
MATCH LINE



PROPOSED IMPROVEMENT

Drawing file: W:\Projects\36508290 - St. Charles Rd\36508290 - St. Charles Lighting.dwg Nov 30, 2009 - 2:53pm

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9931 Riverchase Road
 Westchester, Illinois 60591-2700
 Phone: 708-685-6800
 Fax: 708-685-1212

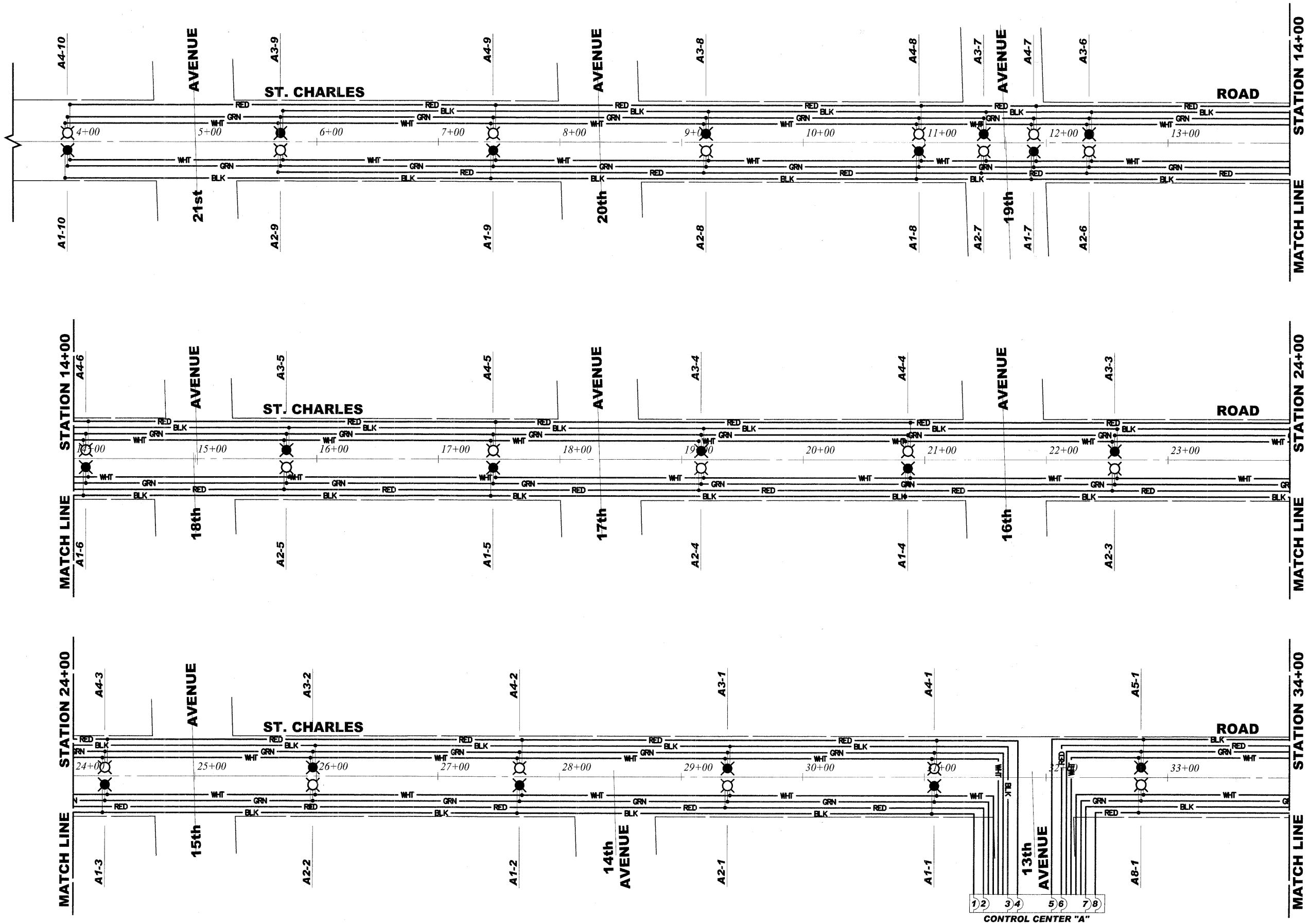
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PLOT SCALE -	DRAWN - MK/LEV	REVISED -
PLOT DATE -	CHECKED - SBC/JG/MV	REVISED -
	DATE - 11-30-09	REVISED -

STATE OF ILLINOIS DEPARTMENT OF TRANSPORTATION

ILLUMINATION PLAN
 SCALE: 1" = 40'
 SHEET NO. 5 OF 5 SHEETS
 STA. 48+25 TO STA. 58+40

F.A.U. RTE. 1397	SECTION 09-00129-00-PV	COUNTY COOK	TOTAL SHEETS 103	SHEET NO. 56
FED. ROAD DIST. NO. 1 ILLINOIS FED. AID PROJECT M-9003 (267)			CONTRACT NO. 63428	
(BOOK NOS. 1579, 1583, 1589) E.H.E PROJECT NO. 565-08-29001				

Drawing file: W:\Projects\56508290 - St. Charles Rd\52_St. Charles Lighting.dwg Nov 30, 2009 - 2:53pm



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1911 River St.
 Webster, IL 60552-2780
 Phone: 708/654-1100
 Fax: 708/654-1212

USER NAME --	DESIGNED -- MK/SBC	REVISED --
PLOT SCALE --	DRAWN -- MK/LEV	REVISED --
PLOT DATE --	CHECKED -- SBC/JG/MV	REVISED --
	DATE -- 11-30-09	REVISED --

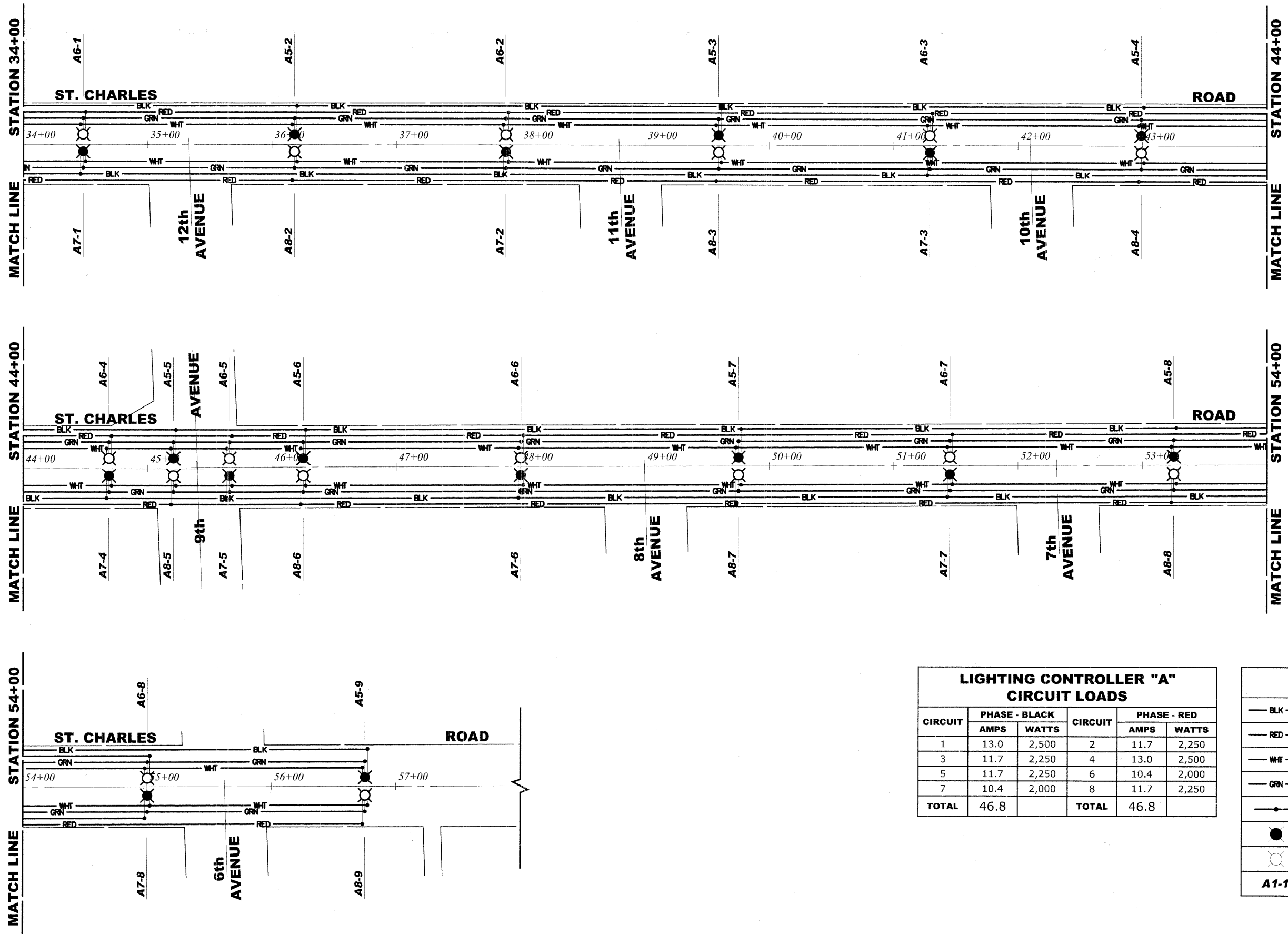
**STATE OF ILLINOIS
 DEPARTMENT OF TRANSPORTATION**

ILLUMINATION WIRING DIAGRAM

SCALE: 1" = 40' SHEET NO. 1 OF 2 SHEETS STA. 3+50 TO STA. 34+00

F.A.U. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
1397	09-00129-00-PV	COOK	103	57
CONTRACT NO. 63428			FED. AID PROJECT M-9003 (267)	
E.H.E PROJECT NO. 565-08-29001				

Drawing file: W:\Projects\56508200 - St. Charles Rd\52_St. Charles Lighting.dwg Nov 30, 2009 - 2:53pm



LIGHTING CONTROLLER "A" CIRCUIT LOADS					
CIRCUIT	PHASE - BLACK		CIRCUIT	PHASE - RED	
	AMPS	WATTS		AMPS	WATTS
1	13.0	2,500	2	11.7	2,250
3	11.7	2,250	4	13.0	2,500
5	11.7	2,250	6	10.4	2,000
7	10.4	2,000	8	11.7	2,250
TOTAL	46.8		TOTAL	46.8	

LEGEND OF SYMBOLS	
	240 VOLT PHASE CABLE (BLACK)
	240 VOLT PHASE CABLE (RED)
	240 VOLT NEUTRAL CABLE (WHITE)
	GROUND WIRE (GREEN)
	SPLICE
	PROPOSED 250 WATT METAL HALIDE LUMINAIRE (240 VOLT) ON BLACK WIRE
	PROPOSED 250 WATT METAL HALIDE LUMINAIRE (240 VOLT) ON RED WIRE
A1-1	PROPOSED CIRCUIT/POLE NUMBER

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1033 Riverside Road
 Westchester, Illinois 60154-1786
 Phone: 708-660-8300
 Fax: 708-660-8302

USER NAME -	DESIGNED - MK/SBC	REVISED -
PLOT SCALE -	DRAWN - MK/LEV	REVISED -
PLOT DATE -	CHECKED - SBC/JGMV	REVISED -
	DATE - 11-30-09	REVISED -

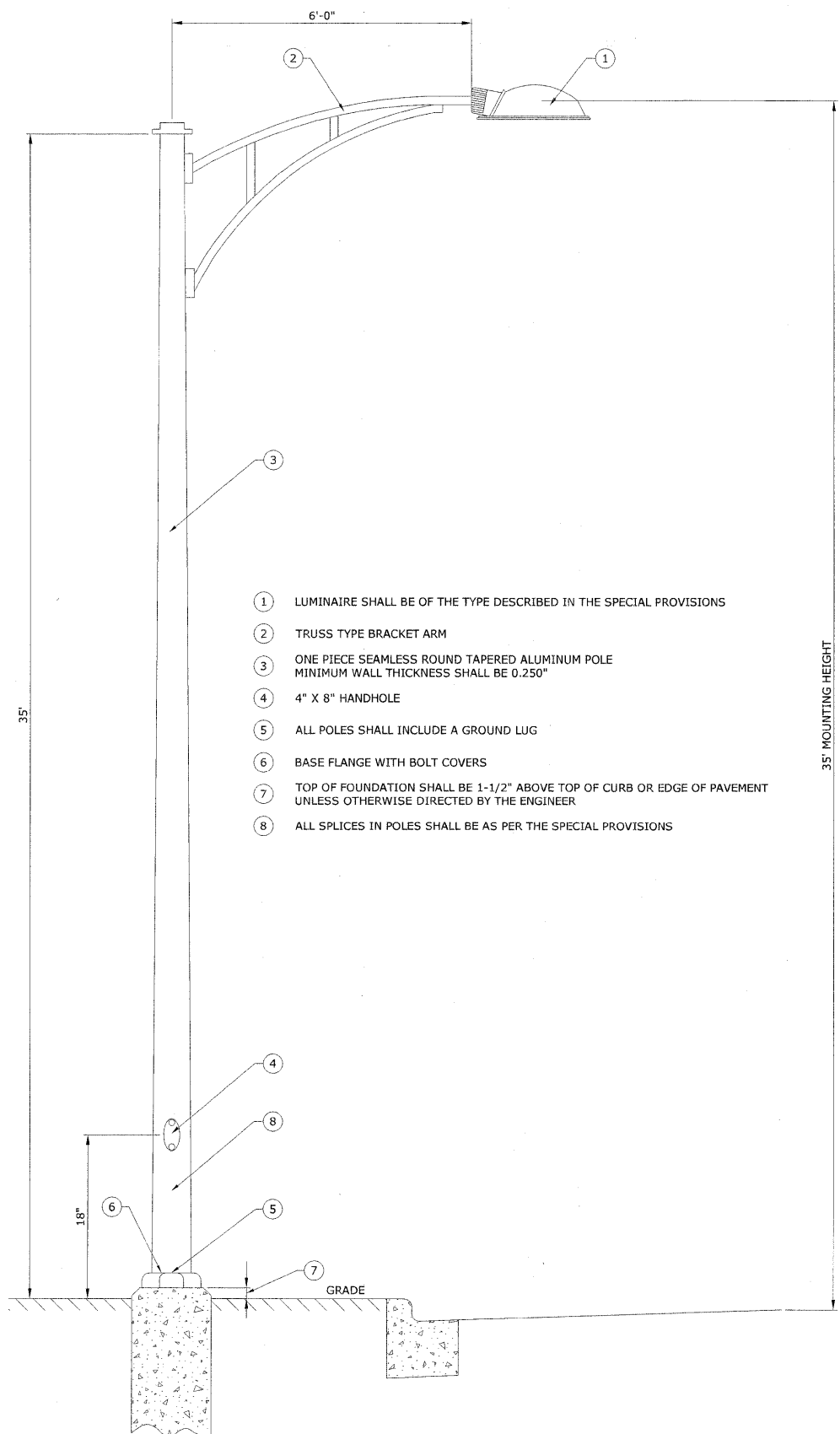
**STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION**

ILLUMINATION WIRING DIAGRAM

SCALE: 1" = 40' SHEET NO. 2 OF 2 SHEETS STA. 34+00 TO STA. 58+00

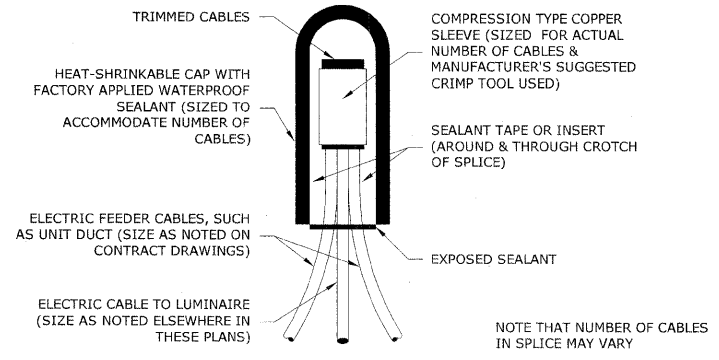
F.A.U. RTE. 1397	SECTION 09-00129-00-PV	COUNTY COOK	TOTAL SHEETS 103	SHEET NO. 58
CONTRACT NO. 6342B			FED. ROAD DIST. NO. 1 ILLINOIS FED. AID PROJECT M-9003 (267)	
(BOOK NOS. 1579, 1583, 1589) E.H.E PROJECT NO. 565-08-29001				

Drawing file: W:\Projects\65508290 - St. Charles Rd\69_St. Charles Lighting-Details.dwg Nov. 30, 2009 - 2:47pm

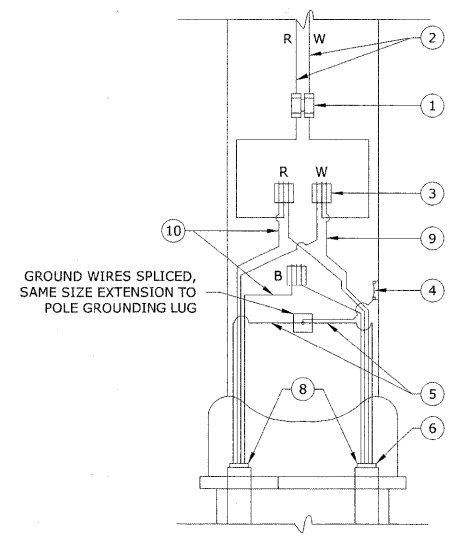


**LIGHT POLE, ALUMINUM,
35' MOUNTING HEIGHT WITH 1 - 6' MAST ARM**

- ① LUMINAIRE SHALL BE OF THE TYPE DESCRIBED IN THE SPECIAL PROVISIONS
- ② TRUSS TYPE BRACKET ARM
- ③ ONE PIECE SEAMLESS ROUND TAPERED ALUMINUM POLE MINIMUM WALL THICKNESS SHALL BE 0.250"
- ④ 4" X 8" HANDHOLE
- ⑤ ALL POLES SHALL INCLUDE A GROUND LUG
- ⑥ BASE FLANGE WITH BOLT COVERS
- ⑦ TOP OF FOUNDATION SHALL BE 1-1/2" ABOVE TOP OF CURB OR EDGE OF PAVEMENT UNLESS OTHERWISE DIRECTED BY THE ENGINEER
- ⑧ ALL SPLICES IN POLES SHALL BE AS PER THE SPECIAL PROVISIONS



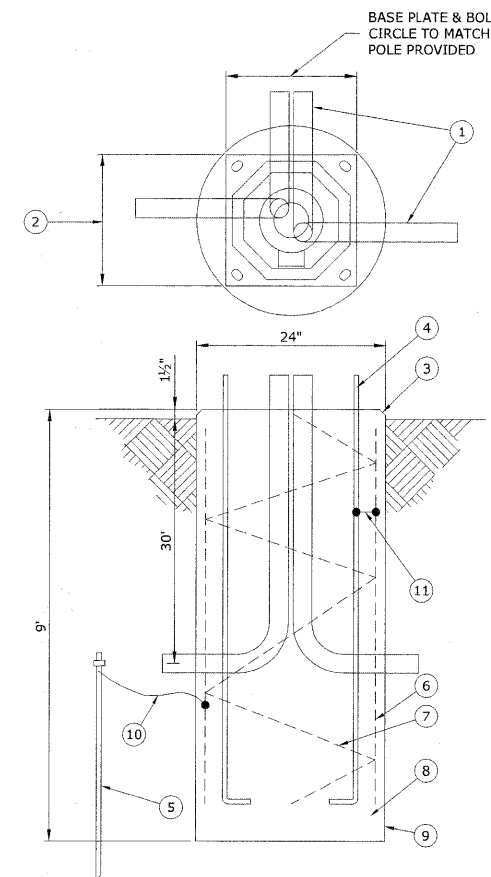
**SPLICING ELECTRIC CABLES
BASIC MATERIALS AND METHODS**



- ① STANDARD-TYPE SMALL DIMENSION DOUBLE POLE FUSEHOLDER WITH INSULATED BOOTS, FUSING AND SOLID NEUTRAL. (SEE SPECS)
- ② 2-1/2" #10 AWG, 600V TYPE RHW, SOLID COLOR CODED CABLES
- ③ SPLICE AS SPECIFIED
- ④ 3/8" - 16 TAPPED HOLE BE PROVIDED FOR GROUND LUG
- ⑤ INSULATED GROUND WIRE, 600V TYPE RHW, SOLID COLOR GREEN, SIZE AS SPECIFIED
- ⑥ UNIT DUCT
- ⑦ 3" P.V.C. CONDUIT RACEWAYS
- ⑧ ENDS OF THE UNIT DUCT SHALL BE SEALED AGAINST THE ENTRANCE OF WATER
- ⑨ NEUTRAL CONDUCTOR, 600V TYPE RHW, SOLID COLOR WHITE, SIZE AS SPECIFIED
- ⑩ PHASE CONDUCTORS, 600V TYPE RHW, SOLID COLOR, SIZE AS SPECIFIED

NOTE:
ALLOW 30" LOOP OF CABLES TO INSURE SUFFICIENT SLACK FOR WITHDRAWAL OF THE CONNECTORS OUTSIDE OF THE POLE HANDHOLE.

POLE HANDHOLE WIRING DIAGRAM



- ① DUAL 3" DIA. P.V.C. ELBOW RACEWAYS. EITHER PARALLEL OR OPPOSITE EACH OTHER AS SHOWN ON PLAN SHEETS.
- ② MANUFACTURER TO FURNISH TEMPLATE DRAWING FOR SETTING OF ANCHOR BOLTS.
- ③ 1" CHAMFER
- ④ 4 - 1" x 60" STEEL ANCHOR BOLTS, TOP 10" THREADED AND GALVANIZED.
- ⑤ 5/8" x 10' GROUND ROD CONNECTED TO GROUND WIRE WITH EXOTHERMIC WELD AT ALL POLE LOCATIONS.
- ⑥ 8 - #5 REINFORCING BARS EQUALLY SPACED AROUND AN 18" DIA. CIRCLE
- ⑦ #4 SPIRAL TIE BARS WITH 6" PITCH
- ⑧ CLASS SI CONCRETE
- ⑨ FOUNDATION LOCATIONS AS SHOWN ON PLAN SHEETS.
- ⑩ No. 2/0 BARE COPPER GROUND WIRE TO GROUND ROD AND REINFORCING BARS WITH EXOTHERMIC WELD.
- ⑪ No. 2/0 BARE COPPER GROUND WIRE TO GROUND ROD WITH EXOTHERMIC WELD.

CONCRETE LIGHT POLE FOUNDATION

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Civil Engineers
Municipal Consultants
Established 1911

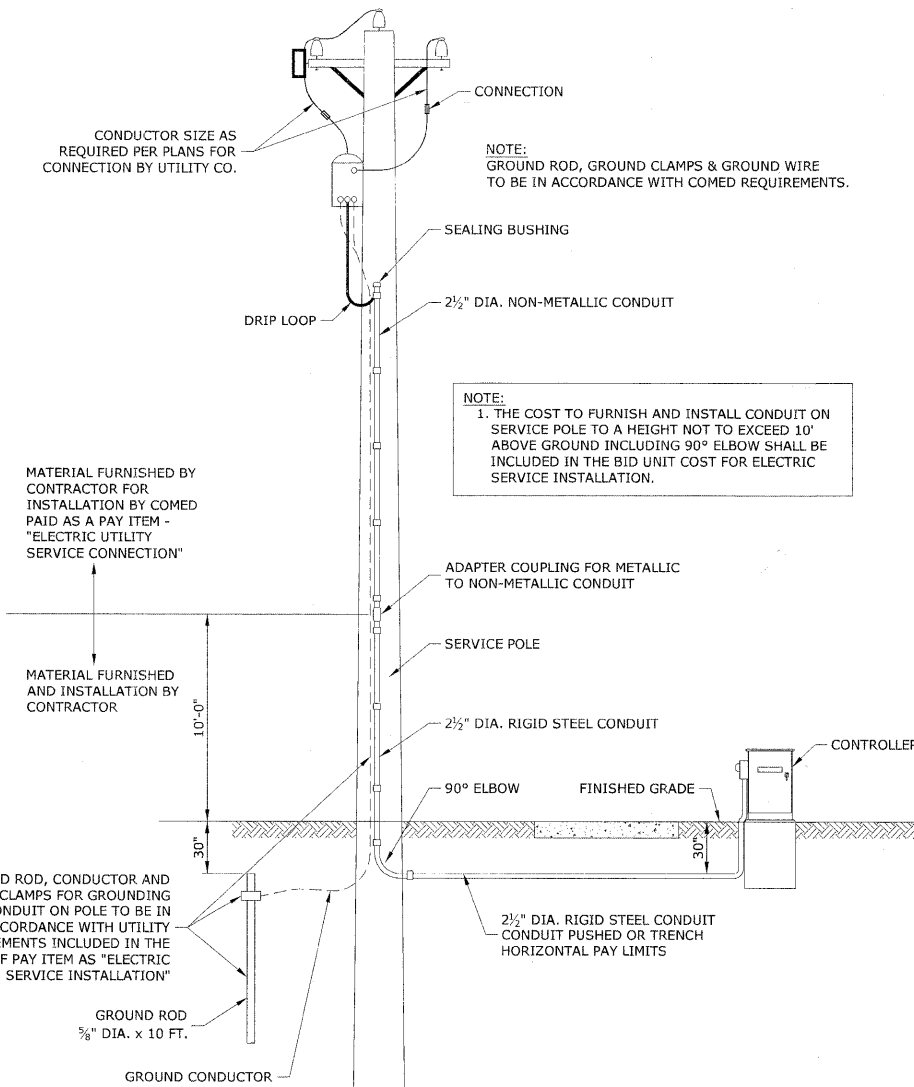
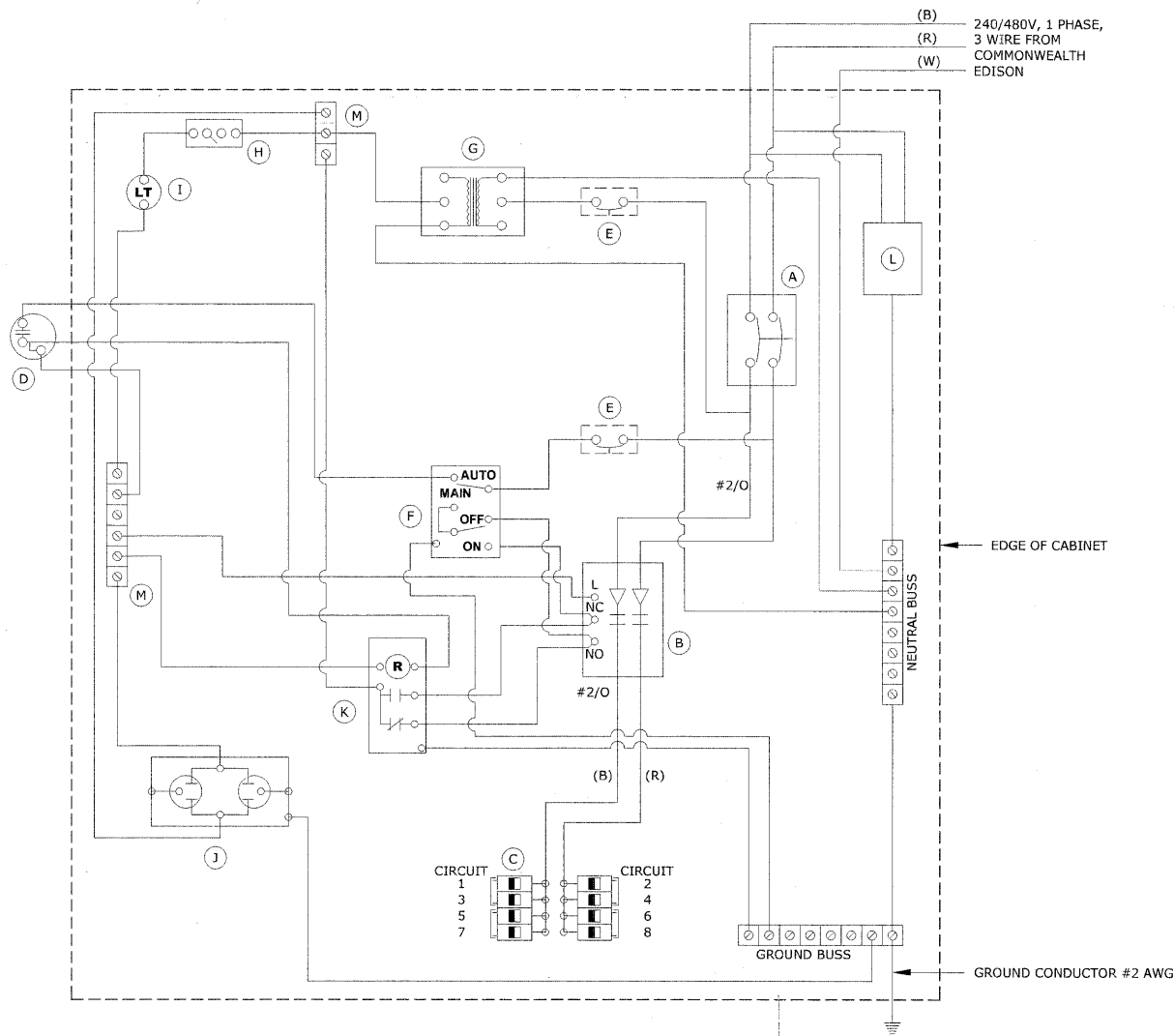
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PLOT SCALE -	DRAWN - MK/LEV	REVISED -
PLOT DATE -	CHECKED - SBC/JG/MV	REVISED -
	DATE - 11-30-09	REVISED -

**STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION**

ILLUMINATION DETAILS

SCALE: NONE SHEET NO. 1 OF 2 SHEETS STA. TO STA.

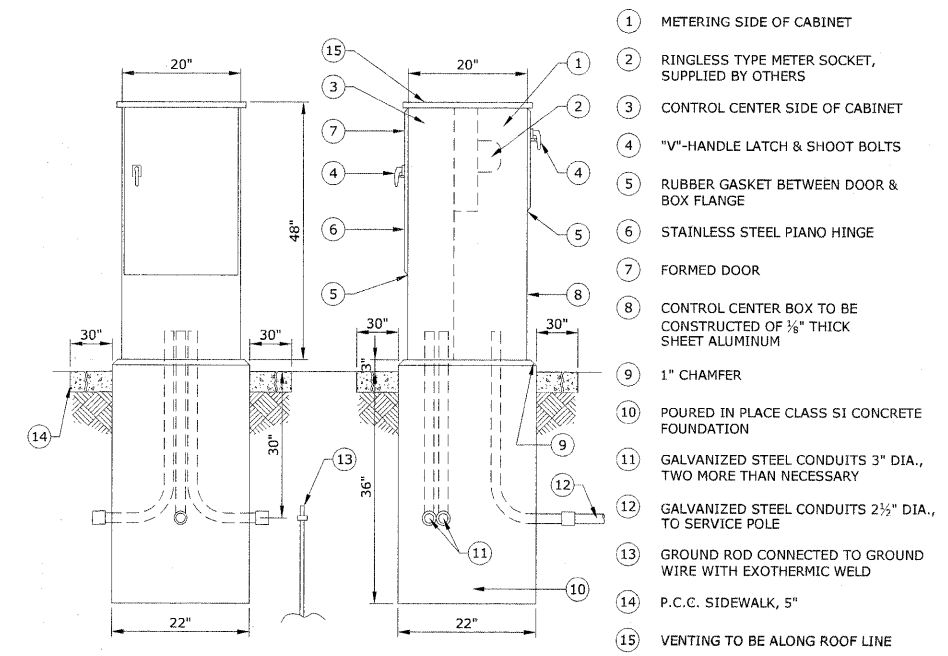
F.A.U. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
1397	09-00129-00-PV	COOK	103	59
CONTRACT NO. 63428			FED. ROAD DIST. NO. 1 ILLINOIS FED. AID PROJECT M-9003 (267)	
(BOOK NOS. 1579, 1583, 1589) E.H.E PROJECT NO. 565-08-28001				



**PROPOSED SERVICE INSTALLATION
POLE TOP MOUNTED TRANSFORMER**

DEVICE SCHEDULE		
QUANTITY	DESCRIPTION	
(A) 1	100 AMP CIRCUIT BREAKER, MOLDED CASE, THERMAL MAGNETIC, 2-POLE, SINGLE THROW, 600V FRAME, NON-INTERCHANGABLE TRIP, BOLT ON TYPE.	
(B) 1	100 AMP, ELECTRICALLY OPERATED AND MECHANICALLY HELD LIGHTING CONTRACTOR, 2-POLE, 600 VOLT WITH 240 VOLT COIL	
(C) 8	240/480 VOLT 1 PHASE PANEL BOARD WITH 100 AMP COPPER MAINS SINGLE POLE, 40 AMP, 277 VOLT BOLT ON BRANCH CIRCUIT BREAKERS	
(D) 1	PHOTO-ELECTRIC CELL, 240 VOLT, MOUNT ON UNDERSIDE OF CABINET VENT	
(E) 2	THERMAL MAGNETIC, MOLDED CASE CIRCUIT BREAKER, 1 POLE, 15 AMP, 277 VOLT BOLT ON TYPE	
(F) 1	CONTROL SWITCH, TOGGLE TYPE, SPDT, 20 AMP, 240 VOLT SPECIAL GRADE	
(G) 1	240/120 VOLT STEP DOWN CONTROL TRANSFORMER 750 VA RATED	
(H) 1	MICRO SWITCH (MOUNTED WITH ACTUATOR TO SWITCH WHEN DOOR IS OPEN) 240 VOLT, 20 AMP	
(I) 1	60 WATT LIGHT FIXTURE VAPOR TIGHT WITH GLOBE, GUARD, AND MOUNTING BOX	
(J) 1	240 VOLT, 15 AMP RECEPTACLE, SPECIFICATION GRADE IN NEMA 5-15R WEATHER PROOF BOX WITH FLAP-TYPE COVER. OUTLET TO BE GFI-TYPE.	
(K) 1	POWER RELAY WITH 25 AMP CONTACTS RATED FOR CONTRACTOR INRUSH CURRENT 240 VOLT COIL	
(L) 1	SURGE ARRESTOR TO WITHSTAND A SURGE CURRENT UP TO 20,000 AMPERES	
(M) 2	TERMINAL BLOCK, 240 VOLT, 50 AMP MAXIMUM WITH NUMBER OF TERMINALS AS INDICATED	

- NOTES:**
- ALL CIRCUIT BREAKERS SHALL HAVE AN INTERRUPT RATING OF 18,000 RMS SYMMETRICAL AMPS, AC
 - UL LISTED DEVICES/COMPONENTS SHALL BE USED
 - NO SPLICES OF WIRES IN CABINET
 - CONTROL WIRE TO BE #12 MTW
 - POWER WIRE SHALL BE RATED RHH/RHW 600 VOLTS OF SIZE INDICATED
 - LIGHTING CONTROLLER SHALL BE SERVICE ENTRANCE RATED PER UL 508(a)



CONTROL CENTER CABINET & FOUNDATION

240/480 VOLT CONTROLLER PANEL WIRING DIAGRAM

Drawing file: W:\Projects\565082900 - St. Charles Rd\39_51_Christie Lighting-Details.dwg Nov 30, 2009 - 2:47pm

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USER NAME -	DESIGNED - MK/SBC	REVISED -
PLOT SCALE -	DRAWN - MK/LEV	REVISED -
PLOT DATE -	CHECKED - SBC/JG/MV	REVISED -
	DATE - 11-30-09	REVISED -

**STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION**

SCALE: NONE	SHEET NO. 2 OF 2 SHEETS	STA. TO STA.
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F.A.U. RTE. 1397	SECTION 09-00129-00-PV	COUNTY COOK	TOTAL SHEETS 103	SHEET NO. 60
CONTRACT NO. 63428				
FED. ROAD DIST. NO. 1 ILLINOIS FED. AID PROJECT M-9003 (267)				

SIGNING NOTES:

DESIGN: AASHTO STANDARD SPECIFICATIONS FOR STRUCTURAL SUPPORTS FOR HIGHWAY SIGNS, LUMINAIRES, AND TRAFFIC SIGNALS, 1975.

CONSTRUCTION: CURRENTS STANDARD SPECIFICATIONS FOR TRAFFIC CONTROL ITEMS, AND APPLICABLE SPECIAL PROVISIONS.

LOADING: FOR 80 MPH WIND VELOCITY WITH 30 % GUST FACTOR, NORMAL TO SIGN.

SOIL PRESSURE: MINIMUM ALLOWABLE SOIL PRESSURE = 1.25 TSF.

MATERIALS: POSTS SHALL CONFORM TO THE REQUIREMENTS OF ARTICLE 1006.29, STANDARD SPECIFICATIONS FOR ROAD AND BRIDGE CONSTRUCTION, STATE OF ILLINOIS.

HARDWARE FOR ATTACHING SIGN PANELS TO POSTS SHALL BE CADMIUM OR ZINC COATED STEEL, STAINLESS STEEL, OR ALUMINUM, AND SHALL CONFORM TO THE FOLLOWING SPECIFICATIONS: CADMIUM OR ZINC COATED STEEL: BOLTS, NUTS, AND WASHERS: ASTM A165, TYPE NS. ZINC COATED IN ACCORDANCE WITH AASHTO M-232 OR ASTM A164, TYPE GS.

STAINLESS STEEL: BOLTS: ASTM A193, CLASS 1, GRADE B8, NUTS: ASTM A194, GRADE 8 OR 8F, WASHERS: ASTM A240, TYPE 302 OR 304.

ALUMINUM: BOLTS: ASTM B211 ALLOY 6061-T6 OR 2024-T4, NUTS: ASTM B211 ALLOY 6061-T6 OR 6262-T9, WASHERS: ASTM B209 ALCLAD 2024-T4.

JOB-SITE SIGNING CODES AND SIZES			JOB-SITE SIGNING CODES AND SIZES			JOB-SITE SIGNING CODES AND SIZES		
SYMBOL	SIGN	CODE & SIZE	SYMBOL	SIGN	CODE & SIZE	SYMBOL	SIGN	CODE & SIZE
		R1-1 30"x30"			TO BE REMOVED, SAFELY STORED AND REINSTALLED BY THE CONTRACTOR			TO BE REMOVED, SAFELY STORED AND REINSTALLED BY THE CONTRACTOR
		R1-3 12"x6"			TO BE REMOVED, SAFELY STORED AND REINSTALLED BY THE CONTRACTOR			TO BE REMOVED, SAFELY STORED AND REINSTALLED BY THE CONTRACTOR
		R2-1 24"x30"			TO BE REMOVED, SAFELY STORED AND REINSTALLED BY THE CONTRACTOR			NEW STREET NAME SIGN AND NEW POST TO BE INSTALLED BY THE CONTRACTOR (1 EACH) (SIZE TO BE DETERMINED BY THE ENGINEER)
		R5-1 30"x30"			TO BE REMOVED, SAFELY STORED AND REINSTALLED BY THE CONTRACTOR			NEW STREET NAME SIGN AND NEW POST TO BE INSTALLED BY THE CONTRACTOR (1 EACH) (SIZE TO BE DETERMINED BY THE ENGINEER)
		R6-2 24"x30"			TO BE REMOVED, SAFELY STORED AND REINSTALLED BY THE CONTRACTOR			
		R7-1 12"x18"			TO BE REMOVED, SAFELY STORED AND REINSTALLED BY THE CONTRACTOR			
		R7-8 12"x18"			TO BE REMOVED, SAFELY STORED AND REINSTALLED BY THE CONTRACTOR			
		W6-3 36"x36"			TO BE REMOVED, SAFELY STORED AND REINSTALLED BY THE CONTRACTOR			
		W3-1 36"x36"			TO BE REMOVED, SAFELY STORED AND REINSTALLED BY THE CONTRACTOR			
		W11-8 30"x30"			TO BE REMOVED, SAFELY STORED AND REINSTALLED BY THE CONTRACTOR			
					TO BE REMOVED, SAFELY STORED AND REINSTALLED BY THE CONTRACTOR			
					TO BE REMOVED, SAFELY STORED AND REINSTALLED BY THE CONTRACTOR			
					TO BE REMOVED, SAFELY STORED AND REINSTALLED BY THE CONTRACTOR			
					TO BE REMOVED, SAFELY STORED AND REINSTALLED BY THE CONTRACTOR			
					TO BE REMOVED, SAFELY STORED AND REINSTALLED BY THE CONTRACTOR			
					TO BE REMOVED, SAFELY STORED AND REINSTALLED BY THE CONTRACTOR			

Drawing file: W:\Projects\35528290 - St. Charles Rd\61_St. Charles 40 Scale.dwg Dec 07, 2009 - 10:33am

HANCOCK ENGINEERING
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 Municipal Consultants
 Established 1911

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 Westchester, Illinois 60154-2780
 Phone: 708/664-8300
 Fax: 708/664-8202

USER NAME --	DESIGNED -- MK/SBC	REVISED --
PLOT SCALE --	DRAWN -- MK/LEV	REVISED --
PLOT DATE --	CHECKED -- SBC/JGMV	REVISED --
	DATE -- 11-30-09	REVISED --

**STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION**

SIGNING PLAN LEGENDS AND NOTES

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

F.A.U. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
1397	09-00129-00-PV	COOK	103	61
CONTRACT NO. 63428				
FED. ROAD DIST. NO. 1 ILLINOIS FED. AID PROJECT M-9003 (267)				

(BOOK NOS. 1579, 1583, 1589) E.H.E PROJECT NO. 565-08-29001

JOB-SITE SIGNING CODES AND SIZES			JOB-SITE SIGNING CODES AND SIZES			JOB-SITE SIGNING CODES AND SIZES		
SYMBOL	SIGN	CODE & SIZE	SYMBOL	SIGN	CODE & SIZE	SYMBOL	SIGN	CODE & SIZE
NPTS		TO BE REMOVED, SAFELY STORED AND REINSTALLED BY THE CONTRACTOR	MYC		TO BE REMOVED, SAFELY STORED AND REINSTALLED BY THE CONTRACTOR	NONP		TO BE REMOVED, SAFELY STORED AND REINSTALLED BY THE CONTRACTOR
WC		TO BE REMOVED, SAFELY STORED AND REINSTALLED BY THE CONTRACTOR	NPLZ		TO BE REMOVED, SAFELY STORED AND REINSTALLED BY THE CONTRACTOR	SN-1 1/2"		TO BE REMOVED, SAFELY STORED AND REINSTALLED BY THE CONTRACTOR
NBOR		TO BE REMOVED, SAFELY STORED AND REINSTALLED BY THE CONTRACTOR	2 HR-P		TO BE REMOVED, SAFELY STORED AND REINSTALLED BY THE CONTRACTOR	SN-2"		TO BE REMOVED, SAFELY STORED AND REINSTALLED BY THE CONTRACTOR
SWEP		TO BE REMOVED, SAFELY STORED AND REINSTALLED BY THE CONTRACTOR	2W-AL		TO BE REMOVED, SAFELY STORED AND REINSTALLED BY THE CONTRACTOR	NPHC		TO BE REMOVED, SAFELY STORED AND REINSTALLED BY THE CONTRACTOR
BAP		TO BE REMOVED, SAFELY STORED AND REINSTALLED BY THE CONTRACTOR	2-W		TO BE REMOVED, SAFELY STORED AND REINSTALLED BY THE CONTRACTOR	PC313		TO BE REMOVED AND REPLACED BY PACE
2-WAY		TO BE REMOVED, SAFELY STORED AND REINSTALLED BY THE CONTRACTOR	PHOTO		TO BE REMOVED, SAFELY STORED AND REINSTALLED BY THE CONTRACTOR	PC303-313		TO BE REMOVED AND REPLACED BY PACE
CLEAN		TO BE REMOVED, SAFELY STORED AND REINSTALLED BY THE CONTRACTOR	FS		TO BE REMOVED, SAFELY STORED AND REINSTALLED BY THE CONTRACTOR	PC303		TO BE REMOVED AND REPLACED BY PACE
NLPO		TO BE REMOVED, SAFELY STORED AND REINSTALLED BY THE CONTRACTOR	NPTSS		TO BE REMOVED, SAFELY STORED AND REINSTALLED BY THE CONTRACTOR			
NPTS		TO BE REMOVED, SAFELY STORED AND REINSTALLED BY THE CONTRACTOR	NPTS		TO BE REMOVED, SAFELY STORED AND REINSTALLED BY THE CONTRACTOR			
NPHC		TO BE REMOVED, SAFELY STORED AND REINSTALLED BY THE CONTRACTOR	NPTB		TO BE REMOVED, SAFELY STORED AND REINSTALLED BY THE CONTRACTOR			
TTP		TO BE REMOVED, SAFELY STORED AND REINSTALLED BY THE CONTRACTOR	NT		TO BE REMOVED, SAFELY STORED AND REINSTALLED BY THE CONTRACTOR			

SIGNING NOTES:

DESIGN: AASHTO STANDARD SPECIFICATIONS FOR STRUCTURAL SUPPORTS FOR HIGHWAY SIGNS, LUMINAIRES, AND TRAFFIC SIGNALS, 1975.

CONSTRUCTION: CURRENTS STANDARD SPECIFICATIONS FOR TRAFFIC CONTROL ITEMS, AND APPLICABLE SPECIAL PROVISIONS.

LOADING: FOR 80 MPH WIND VELOCITY WITH 30 % GUST FACTOR, NORMAL TO SIGN.

SOIL PRESSURE: MINIMUM ALLOWABLE SOIL PRESSURE = 1.25 TSF.

MATERIALS: POSTS SHALL CONFORM TO THE REQUIREMENTS OF ARTICLE 1006.29, STANDARD SPECIFICATIONS FOR ROAD AND BRIDGE CONSTRUCTION, STATE OF ILLINOIS.

HARDWARE FOR ATTACHING SIGN PANELS TO POSTS SHALL BE CADMIUM OR ZINC COATED STEEL, STAINLESS STEEL, OR ALUMINUM, AND SHALL CONFORM TO THE FOLLOWING SPECIFICATIONS: CADMIUM OR ZINC COATED STEEL: BOLTS, NUTS, AND WASHERS: ASTM A165, TYPE NS. ZINC COATED IN ACCORDANCE WITH AASHTO M-232 OR ASTM A164, TYPE GS.

STAINLESS STEEL: BOLTS: ASTM A193, CLASS I, GRADE B8, NUTS: ASTM A194, GRADE 8 OR 8F, WASHERS: ASTM A240, TYPE 302 OR 304.

ALUMINUM: BOLTS: ASTM B211 ALLOY 6061-T6 OR 2024-T4, NUTS: ASTM B211 ALLOY 6061-T6 OR 6262-T9, WASHERS: ASTM B209 ALCLAD 2024-T4.

Drawing file: W:\Projects\655082900 - St. Charles Rd\61_St. Charles 40 Scale.dwg Dec 07, 2009 - 10:33am

HANCOCK ENGINEERING
 Civil Engineers
 Municipal Consultants
 Established 1911

1933 Riverside Road
 Westchester, Illinois 60591-2786
 Phone: 708/664-6800
 Fax: 708/665-8322

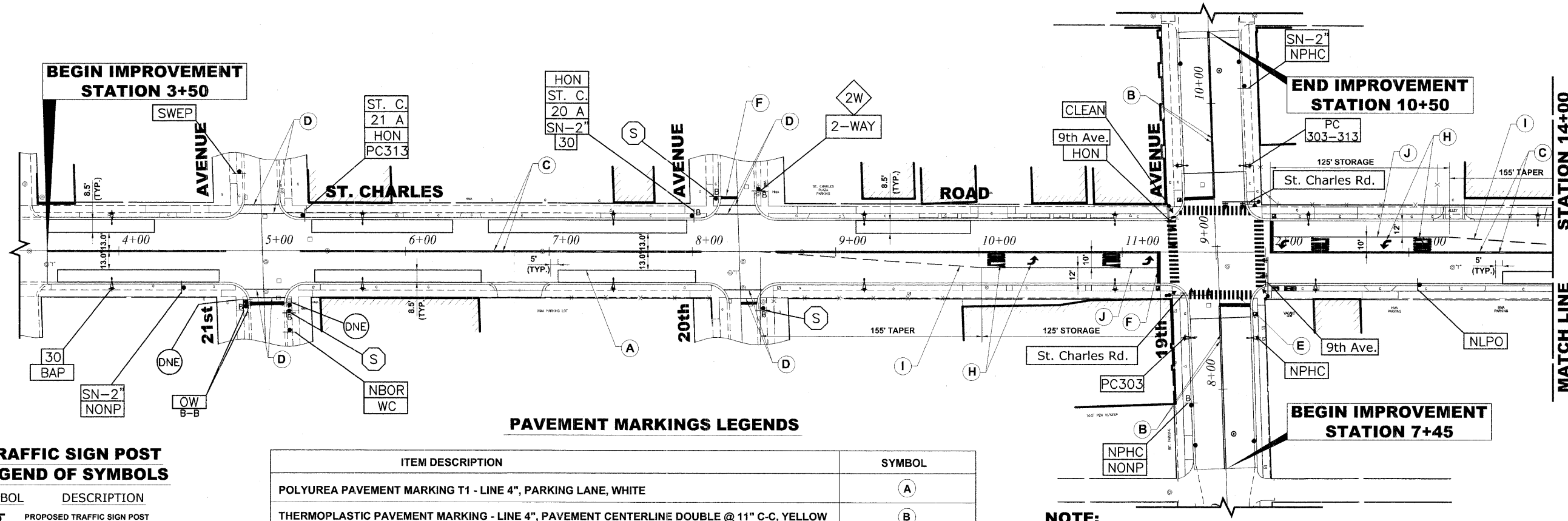
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PLOT SCALE -	DRAWN - MK/LEV	REVISED -
PLOT DATE -	CHECKED - SBC/JGMV	REVISED -
	DATE - 11-30-09	REVISED -

**STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION**

SIGNING PLAN LEGENDS AND NOTES

SCALE: NONE	SHEET NO. OF SHEETS	STA. TO STA.
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F.A.U. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
1397	09-00129-00-PV	COOK	103	62
CONTRACT NO. 63428				
FED. ROAD DIST. NO. 1 ILLINOIS FED. AID PROJECT M-9003 (267)				



PAVEMENT MARKINGS LEGENDS

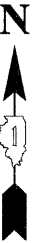
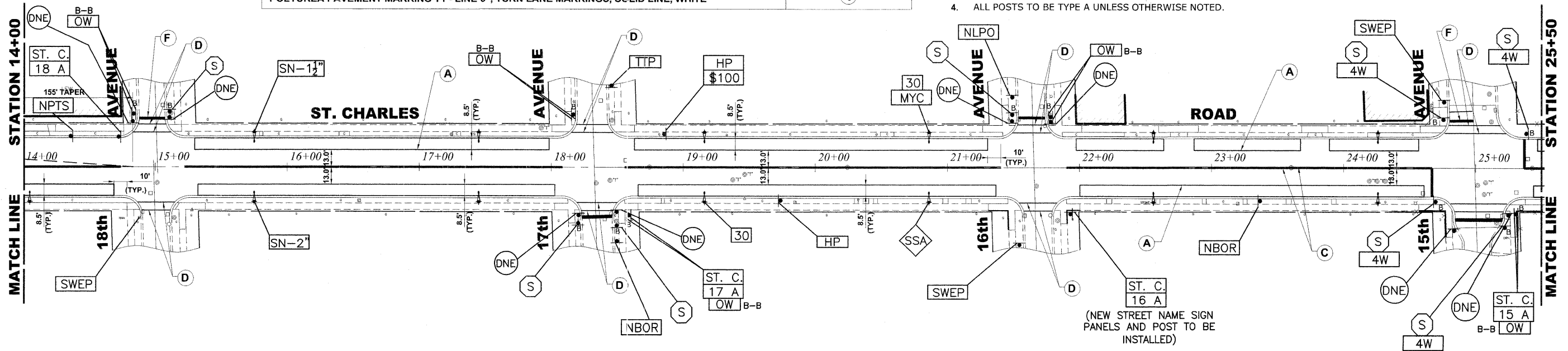
ITEM DESCRIPTION	SYMBOL
POLYUREA PAVEMENT MARKING T1 - LINE 4", PARKING LANE, WHITE	A
THERMOPLASTIC PAVEMENT MARKING - LINE 4", PAVEMENT CENTERLINE DOUBLE @ 11" C-C, YELLOW	B
POLYUREA PAVEMENT MARKING T1 - LINE 4", PAVEMENT CENTERLINE DOUBLE @ 11" C-C, YELLOW	C
POLYUREA PAVEMENT MARKING T1 - LINE 6", CROSSWALK, WHITE	D
POLYUREA PAVEMENT MARKING T1 - LINE 12", SCHOOL CROSSWALK, WHITE	E
POLYUREA PAVEMENT MARKING T1 - LINE 24", STOP BAR, WHITE	F
POLYUREA PAVEMENT MARKING T1 - LETTERS AND SYMBOLS, WHITE	H
POLYUREA PAVEMENT MARKING T1 - LINE 6", TURN LANE MARKINGS, SKIP-DASH, WHITE	I
POLYUREA PAVEMENT MARKING T1 - LINE 6", TURN LANE MARKINGS, SOLID LINE, WHITE	J

TRAFFIC SIGN POST LEGEND OF SYMBOLS

SYMBOL	DESCRIPTION
T	PROPOSED TRAFFIC SIGN POST (TYPE A)
T ^B	PROPOSED TRAFFIC SIGN POST (TYPE B)
B-B	DENOTES BACK TO BACK SIGN

NOTE:

- CONTRACTOR TO CONTACT PACE TO COORDINATE PICK-UP OF THEIR SIGNS AND POSTS AT BEGINNING OF CONSTRUCTION. IF PACE DOES NOT PICK UP SIGNS, CONTRACTOR IS RESPONSIBLE FOR REMOVING AND STORING SIGNS AND POSTS WITHOUT DAMAGE TO THEM (COST IS TO BE INCLUDED IN THE "REMOVE AND RE-ERECT EXISTING SIGN" PAY ITEM)
- VILLAGE MISCELLANEOUS (SPECIALTY) SIGNS ARE TO BE REMOVED BY THE THE CONTRACTOR PRIOR TO CONSTRUCTION. THE CONTRACTOR SHALL REINSTALL SIGNS AFTER COMPLETION OF PROJECT. REMOVAL AND NEW REPLACEMENT OF VILLAGE MISCELLANEOUS (SPECIALTY) SIGNS AND THEIR POSTS ARE TO BE DETERMINED BY THE ENGINEER. (COST IS TO BE INCLUDED IN THE "REMOVE AND RE-ERECT EXISTING SIGN" OR "SIGN PANEL A" AND "METAL POST" PAY ITEM)
- STREET NAME SIGNS AND POSTS ARE TO BE REMOVED BY CONTRACTOR AT THE BEGINNING OF CONSTRUCTION, SAFELY STORED BY THE CONTRACTOR AND REINSTALLED BY THE CONTRACTOR AT THE COMPLETION OF THE PROJECT (COST IS TO BE INCLUDED IN THE "REMOVE AND RE-ERECT EXISTING SIGN" PAY ITEM)
- ALL POSTS TO BE TYPE A UNLESS OTHERWISE NOTED.



Drawing file: W:\Projects\65508290 - St. Charles Rd\61_St. Charles 40 Scale.dwg Dec 07, 2009 - 10:36am

HANCOCK ENGINEERING
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 Municipal Consultants
 Established 1911
 9933 Riverside Road
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USER NAME -	DESIGNED - MK/SBC	REVISED -
PLOT SCALE -	DRAWN - MK/LEV	REVISED -
PLOT DATE -	CHECKED - SBC/JG/MV	REVISED -
	DATE - 11-30-09	REVISED -

STATE OF ILLINOIS DEPARTMENT OF TRANSPORTATION

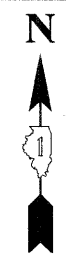
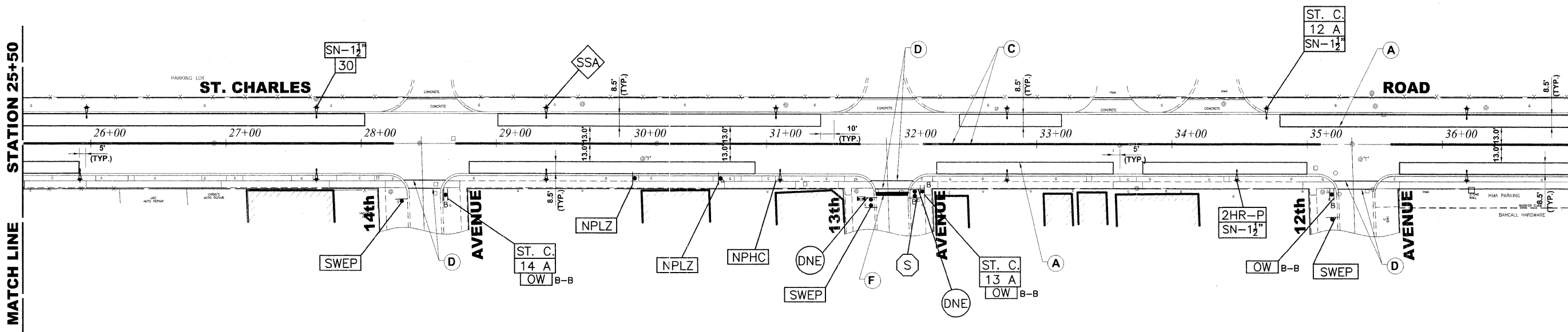
PAVEMENT MARKING AND SIGNING PLAN

SCALE: 1" = 40' SHEET NO. 1 OF 3 SHEETS STA. 3+50 TO STA. 25+50

F.A.U. RTE. 1397	SECTION 09-00129-00-PV	COUNTY COOK	TOTAL SHEETS 103	SHEET NO. 63
CONTRACT NO. 63428				
FED. ROAD DIST. NO. 1 ILLINOIS FED. AID PROJECT M-9003 (267)				
(BOOK NOS. 1579, 1583, 1589) E.H.E PROJECT NO. 565-08-29001				

STATION 25+50
MATCH LINE

STATION 37+00
MATCH LINE



NOTE:

1. CONTRACTOR TO CONTACT PACE TO COORDINATE PICK-UP OF THEIR SIGNS AND POSTS AT BEGINNING OF CONSTRUCTION. IF PACE DOES NOT PICK UP SIGNS, CONTRACTOR IS RESPONSIBLE FOR REMOVING AND STORING SIGNS AND POSTS WITHOUT DAMAGE TO THEM (COST IS TO BE INCLUDED IN THE "REMOVE AND RE-ERECT EXISTING SIGN" PAY ITEM)
2. VILLAGE MISCELLANEOUS (SPECIALTY) SIGNS ARE TO BE REMOVED BY THE THE CONTRACTOR PRIOR TO CONSTRUCTION. THE CONTRACTOR SHALL REINSTALL SIGNS AFTER COMPLETION OF PROJECT. REMOVAL AND NEW REPLACEMENT OF VILLAGE MISCELLANEOUS (SPECIALTY) SIGNS AND THEIR POSTS ARE TO BE DETERMINED BY THE ENGINEER.(COST IS TO BE INCLUDED IN THE "REMOVE AND RE-ERECT EXISTING SIGN" OR "SIGN PANEL A" AND "METAL POST" PAY ITEM)
3. STREET NAME SIGNS AND POSTS ARE TO BE REMOVED BY CONTRACTOR AT THE BEGINNING OF CONSTRUCTION, SAFELY STORED BY THE CONTRACTOR AND REINSTALLED BY THE CONTRACTOR AT THE COMPLETION OF THE PROJECT (COST IS TO BE INCLUDED IN THE "REMOVE AND RE-ERECT EXISTING SIGN" PAY ITEM)
4. ALL POSTS TO BE TYPE A UNLESS OTHERWISE NOTED.

PAVEMENT MARKINGS LEGENDS

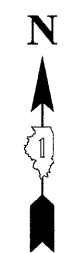
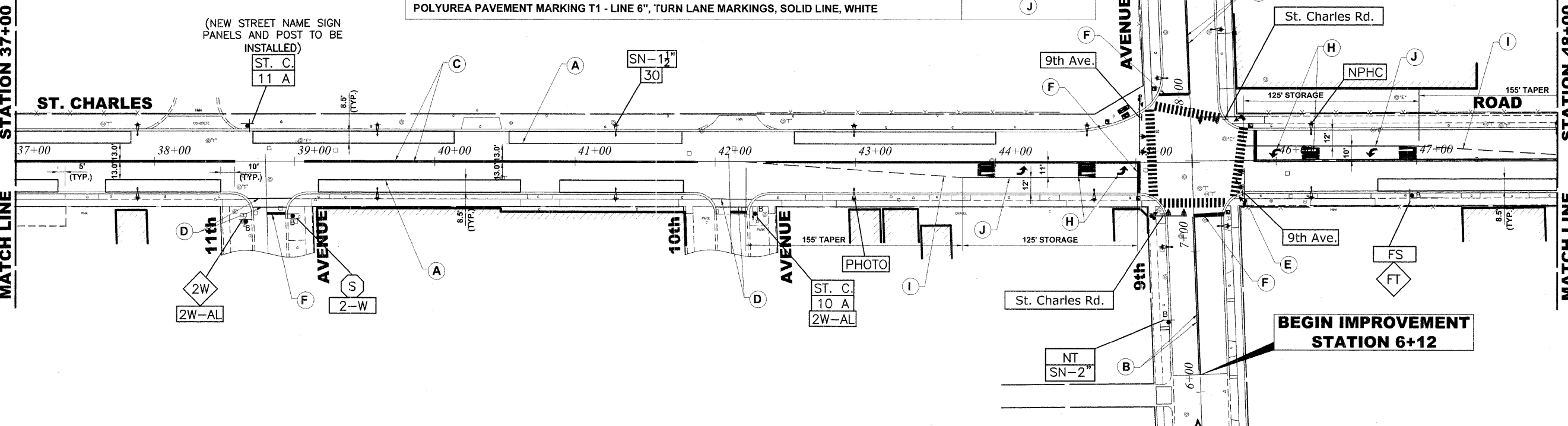
ITEM DESCRIPTION	SYMBOL
POLYUREA PAVEMENT MARKING T1 - LINE 4", PARKING LANE, WHITE	A
THERMOPLASTIC PAVEMENT MARKING - LINE 4", PAVEMENT CENTERLINE DOUBLE @ 11" C-C, YELLOW	B
POLYUREA PAVEMENT MARKING T1 - LINE 4", PAVEMENT CENTERLINE DOUBLE @ 11" C-C, YELLOW	C
POLYUREA PAVEMENT MARKING T1 - LINE 6", CROSSWALK, WHITE	D
POLYUREA PAVEMENT MARKING T1 - LINE 12", SCHOOL CROSSWALK, WHITE	E
POLYUREA PAVEMENT MARKING T1 - LINE 24", STOP BAR, WHITE	F
POLYUREA PAVEMENT MARKING T1 - LETTERS AND SYMBOLS, WHITE	H
POLYUREA PAVEMENT MARKING T1 - LINE 6", TURN LANE MARKINGS, SKIP-DASH, WHITE	I
POLYUREA PAVEMENT MARKING T1 - LINE 6", TURN LANE MARKINGS, SOLID LINE, WHITE	J

TRAFFIC SIGN POST LEGEND OF SYMBOLS

SYMBOL	DESCRIPTION
	PROPOSED TRAFFIC SIGN POST (TYPE A)
	PROPOSED TRAFFIC SIGN POST (TYPE B)
B-B	DENOTES BACK TO BACK SIGN

STATION 37+00
MATCH LINE

STATION 48+00
MATCH LINE



Drawing file: W:\Projects\56508290 - St. Charles Rd\61-St. Charles 40 Scale.dwg Dec. 07, 2009 - 10:37am



USER NAME -	DESIGNED - MK/SBC	REVISED -
PLOT SCALE -	DRAWN - MK/LEV	REVISED -
PLOT DATE -	CHECKED - SBC/JG/MV	REVISED -
	DATE - 11-30-09	REVISED -

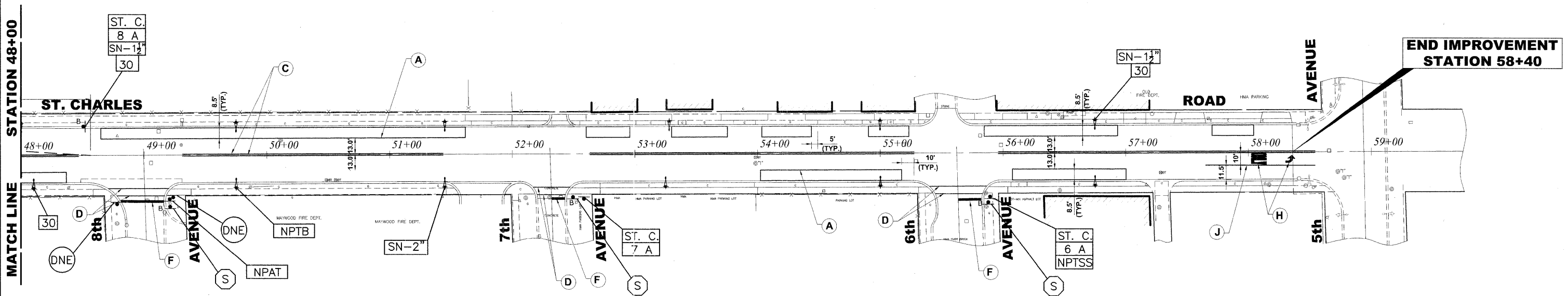
STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

PAVEMENT MARKING AND SIGNING PLAN

SCALE: 1" = 40' SHEET NO. 2 OF 3 SHEETS STA. 25+50 TO STA. 48+00

F.A.U. RTE. 1397	SECTION 09-00129-00-PV	COUNTY COOK	TOTAL SHEETS 103	SHEET NO. 64
CONTRACT NO. 63428			M-9003 (267)	

(BOOK NOS. 1579, 1583, 1589) E.H.E. PROJECT NO. 565-08-29001



PAVEMENT MARKINGS LEGENDS

ITEM DESCRIPTION	SYMBOL
POLYUREA PAVEMENT MARKING T1 - LINE 4", PARKING LANE, WHITE	(A)
THERMOPLASTIC PAVEMENT MARKING - LINE 4", PAVEMENT CENTERLINE DOUBLE @ 11" C-C, YELLOW	(B)
POLYUREA PAVEMENT MARKING T1 - LINE 4", PAVEMENT CENTERLINE DOUBLE @ 11" C-C, YELLOW	(C)
POLYUREA PAVEMENT MARKING T1 - LINE 6", CROSSWALK, WHITE	(D)
POLYUREA PAVEMENT MARKING T1 - LINE 12", SCHOOL CROSSWALK, WHITE	(E)
POLYUREA PAVEMENT MARKING T1 - LINE 24", STOP BAR, WHITE	(F)
POLYUREA PAVEMENT MARKING T1 - LETTERS AND SYMBOLS, WHITE	(H)
POLYUREA PAVEMENT MARKING T1 - LINE 6", TURN LANE MARKINGS, SKIP-DASH, WHITE	(I)
POLYUREA PAVEMENT MARKING T1 - LINE 6", TURN LANE MARKINGS, SOLID LINE, WHITE	(J)

NOTE:

- CONTRACTOR TO CONTACT PACE TO COORDINATE PICK-UP OF THEIR SIGNS AND POSTS AT BEGINNING OF CONSTRUCTION. IF PACE DOES NOT PICK UP SIGNS, CONTRACTOR IS RESPONSIBLE FOR REMOVING AND STORING SIGNS AND POSTS WITHOUT DAMAGE TO THEM (COST IS TO BE INCLUDED IN THE "REMOVE AND RE-ERECT EXISTING SIGN" PAY ITEM)
- VILLAGE MISCELLANEOUS (SPECIALTY) SIGNS ARE TO BE REMOVED BY THE THE CONTRACTOR PRIOR TO CONSTRUCTION. THE CONTRACTOR SHALL REINSTALL SIGNS AFTER COMPLETION OF PROJECT. REMOVAL AND NEW REPLACEMENT OF VILLAGE MISCELLANEOUS (SPECIALTY) SIGNS AND THEIR POSTS ARE TO BE DETERMINED BY THE ENGINEER. (COST IS TO BE INCLUDED IN THE "REMOVE AND RE-ERECT EXISTING SIGN" OR "SIGN PANEL A" AND "METAL POST" PAY ITEM)
- STREET NAME SIGNS AND POSTS ARE TO BE REMOVED BY CONTRACTOR AT THE BEGINNING OF CONSTRUCTION, SAFELY STORED BY THE CONTRACTOR AND REINSTALLED BY THE CONTRACTOR AT THE COMPLETION OF THE PROJECT (COST IS TO BE INCLUDED IN THE "REMOVE AND RE-ERECT EXISTING SIGN" PAY ITEM)
- ALL POSTS TO BE TYPE A UNLESS OTHERWISE NOTED.

TRAFFIC SIGN POST LEGEND OF SYMBOLS

SYMBOL	DESCRIPTION
(A)	PROPOSED TRAFFIC SIGN POST (TYPE A)
(B)	PROPOSED TRAFFIC SIGN POST (TYPE B)
B-B	DENOTES BACK TO BACK SIGN

Drawing file: W:\Projects\56509290 - St. Charles Rd\61_St. Charles 40 Scale.dwg Dec 07, 2009 - 10:37am

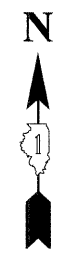
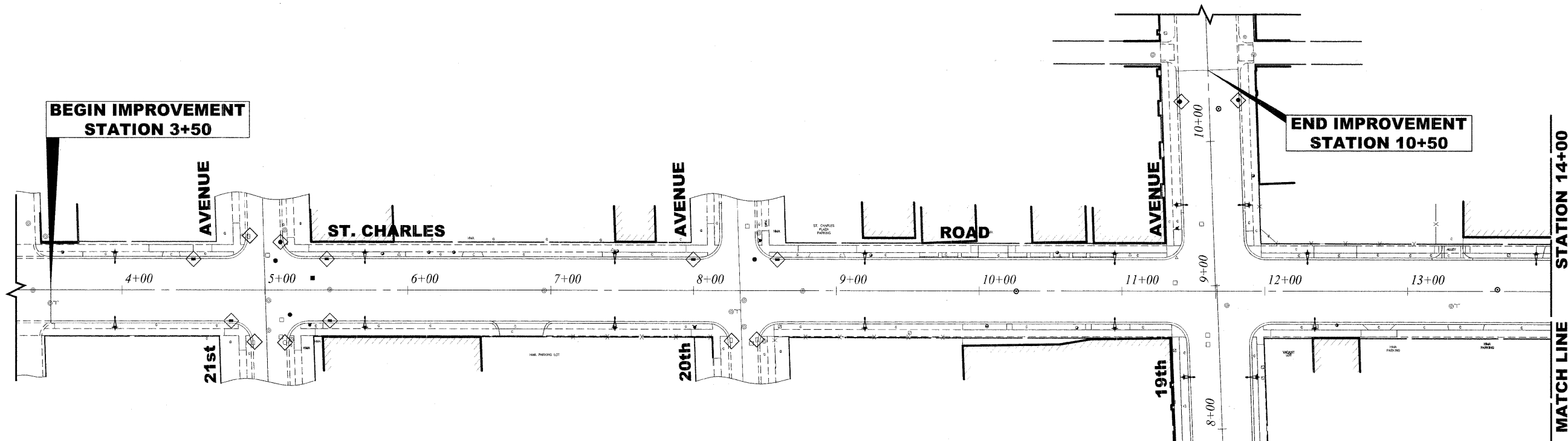
HANCOCK ENGINEERING
 Civil Engineers
 Municipal Consultants
 Established 1911

USER NAME -	DESIGNED - MK/SBC	REVISED -
PLOT SCALE -	DRAWN - MK/LEV	REVISED -
PLOT DATE -	CHECKED - SBC/JG/MV	REVISED -
	DATE - 11-30-09	REVISED -

**STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION**

PAVEMENT MARKING AND SIGNING PLAN
 SCALE: 1" = 40' SHEET NO. 3 OF 3 SHEETS STA. 48+00 TO STA. 58+95

F.A.U. RTE. 1397	SECTION 09-00129-00-PV	COUNTY COOK	TOTAL SHEETS 103	SHEET NO. 65
FED. ROAD DIST. NO. 1 ILLINOIS			FED. AID PROJECT M-9003 (267)	
(BOOK NOS. 1579, 1583, 1589) E.H.E PROJECT NO. 565-08-29001				

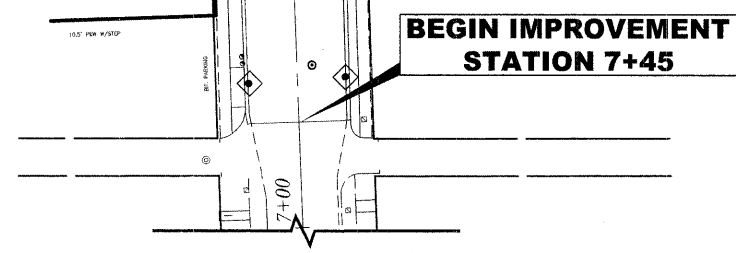


EROSION CONTROL NOTES

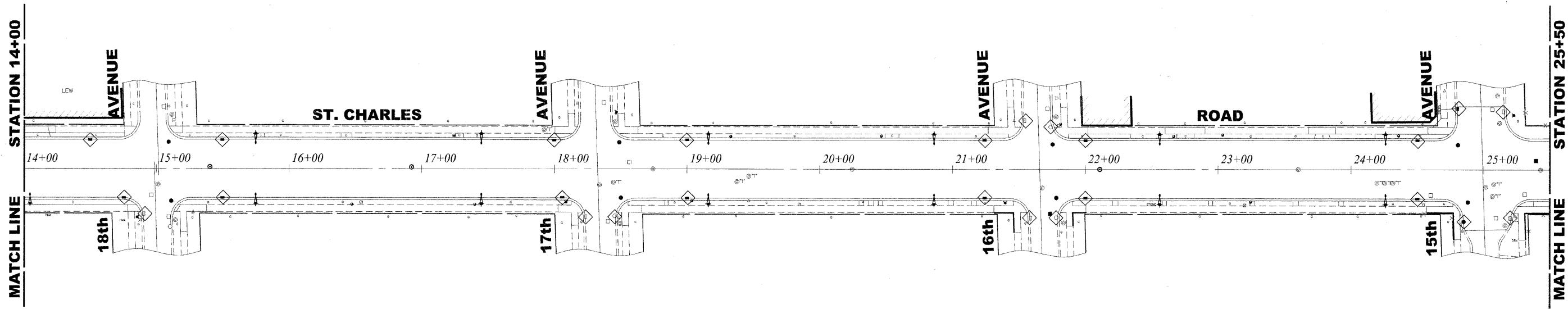
1. SEE IDOT STANDARD 280001-05 FOR TEMPORARY EROSION CONTROL SYSTEMS.
2. THE CONTRACTOR SHALL ENSURE THAT ADJACENT PROPERTIES REMAIN PROTECTED FROM SEDIMENT DEPOSITION.
3. SOIL STOCKPILES SHALL BE PROTECTED WITH PERIMETER EROSION BARRIER OR OTHER EROSION PROTECTION SPECIFIED BY THE RESIDENT ENGINEER. THE COST SHALL BE INCLUDED IN THE UNIT PRICE FOR THE INDIVIDUAL SOIL MATERIALS.
4. WHEREVER CONSTRUCTION VEHICLE ACCESS ROUTES INTERSECT PAVED PUBLIC ROADS, PROVISIONS SHALL BE MADE TO MINIMIZE THE TRANSPORT OF SEDIMENT BY RUNOFF OR VEHICLE TRACKING ONTO THE PAVED SURFACE. THE PROVISIONS MAY INCLUDE SPRAYING VEHICLE WHEELS TO CLEAR SEDIMENT BEFORE EXITING THE CONSTRUCTION SITE OR OTHER MEASURES APPROVED BY THE ENGINEER.

LEGEND

SYMBOL	DESCRIPTION
	INLET FILTER/SEDIMENT CONTROL, DRAINAGE STRUCTURE



BEGIN IMPROVEMENT STATION 7+45



Drawing file: W:\Projects\95008290 - St. Charles Rd\61_S1: Charles 40 Scale.dwg Dec 08, 2009 - 9:59am

HANCOCK ENGINEERING
 Civil Engineers
 Municipal Consultants
 Established 1911

9503 Rivercrest Road
 Westchester, Illinois 60151-2788
 Phone: 708-666-4300
 Fax: 708-666-4332

USER NAME -	DESIGNED - MK/SBC	REVISED -
PLOT SCALE -	DRAWN - MK/LEV	REVISED -
PLOT DATE -	CHECKED - SBC/JG/MV	REVISED -
	DATE - 11-30-09	REVISED -

**STATE OF ILLINOIS
 DEPARTMENT OF TRANSPORTATION**

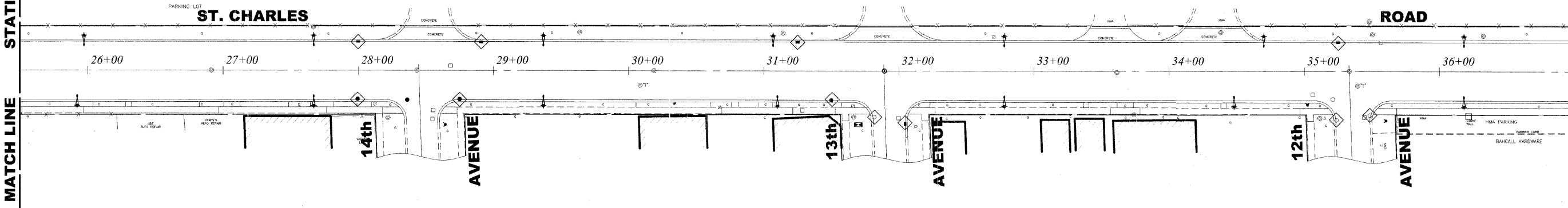
EROSION CONTROL PLAN

SCALE: 1" = 40' SHEET NO. 1 OF 3 SHEETS STA. 3+50 TO STA. 25+50

F.A.U. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
1397	09-00129-00-PV	COOK	103	66
CONTRACT NO. 63428				
FED. ROAD DIST. NO. 1 ILLINOIS FED. AID PROJECT M-9003 (267)				
(BOOK NOS. 1579, 1583, 1589) E.H.E PROJECT NO. 565-08-29001				

STATION 25+50

STATION 37+00



EROSION CONTROL NOTES

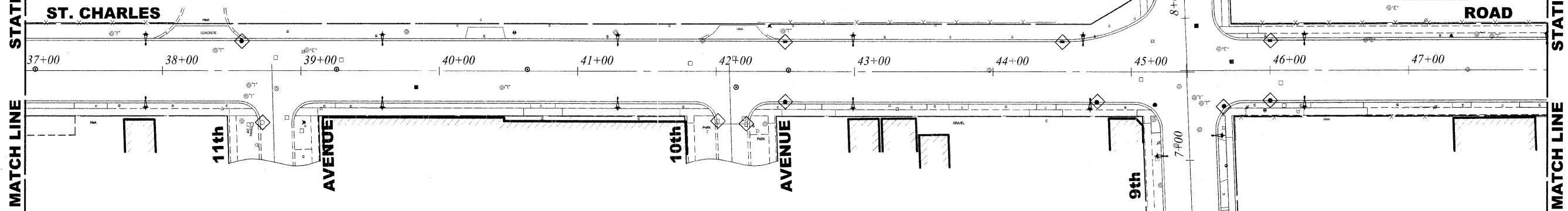
1. SEE IDOT STANDARD 280001-05 FOR TEMPORARY EROSION CONTROL SYSTEMS.
2. THE CONTRACTOR SHALL ENSURE THAT ADJACENT PROPERTIES REMAIN PROTECTED FROM SEDIMENT DEPOSITION.
3. SOIL STOCKPILES SHALL BE PROTECTED WITH PERIMETER EROSION BARRIER OR OTHER EROSION PROTECTION SPECIFIED BY THE RESIDENT ENGINEER. THE COST SHALL BE INCLUDED IN THE UNIT PRICE FOR THE INDIVIDUAL SOIL MATERIALS.
4. WHEREVER CONSTRUCTION VEHICLE ACCESS ROUTES INTERSECT PAVED PUBLIC ROADS. PROVISIONS SHALL BE MADE TO MINIMIZE THE TRANSPORT OF SEDIMENT BY RUNOFF OR VEHICLE TRACKING ONTO THE PAVED SURFACE. THE PROVISIONS MAY INCLUDE SPRAYING VEHICLE WHEELS TO CLEAR SEDIMENT BEFORE EXITING THE CONSTRUCTION SITE OR OTHER MEASURES APPROVED BY THE ENGINEER.

LEGEND

SYMBOL	DESCRIPTION
	INLET FILTER/SEDIMENT CONTROL, DRAINAGE STRUCTURE

STATION 37+00

STATION 48+00



Drawing file: W:\Projects\95000290 - St. Charles Rd\61_St. Charles 40 Scale.dwg Dec 08, 2009 9:59am

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 Established 1911

9503 Research Road
 Westchester, Illinois 60154-2780
 Phone: 708-666-0188
 Fax: 708-666-1312

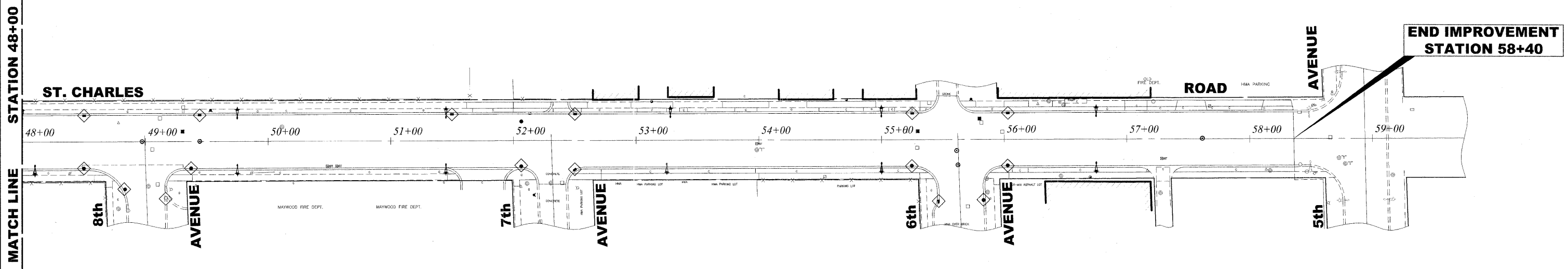
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PLOT SCALE -	DRAWN - MK/LEV	REVISED -
PLOT DATE -	CHECKED - SBC/JGMV	REVISED -
	DATE - 11-30-09	REVISED -

**STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION**

EROSION CONTROL PLAN

SCALE: 1" = 40' SHEET NO. 2 OF 3 SHEETS STA. 25+50 TO STA. 48+00

F.A.U. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
1397	09-00129-00-PV	COOK	103	67
FED. ROAD DIST. NO. 1 ILLINOIS FED. AID PROJECT M-9003 (267)			CONTRACT NO. 63428	
(BOOK NOS. 1579, 1583, 1589) E.H.E PROJECT NO. 565-08-29001				

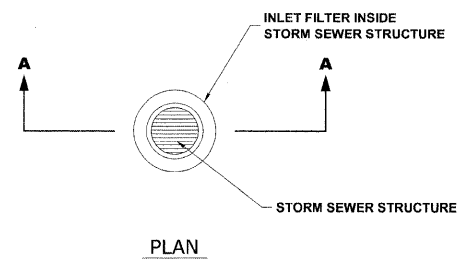
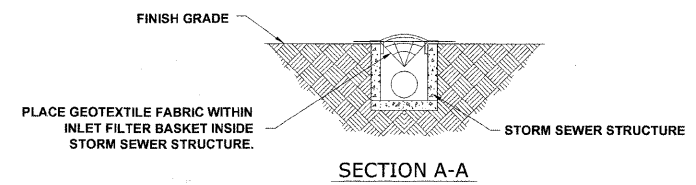


EROSION CONTROL NOTES

1. SEE IDOT STANDARD 280001-05 FOR TEMPORARY EROSION CONTROL SYSTEMS.
2. THE CONTRACTOR SHALL ENSURE THAT ADJACENT PROPERTIES REMAIN PROTECTED FROM SEDIMENT DEPOSITION.
3. SOIL STOCKPILES SHALL BE PROTECTED WITH PERIMETER EROSION BARRIER OR OTHER EROSION PROTECTION SPECIFIED BY THE RESIDENT ENGINEER. THE COST SHALL BE INCLUDED IN THE UNIT PRICE FOR THE INDIVIDUAL SOIL MATERIALS.
4. WHEREVER CONSTRUCTION VEHICLE ACCESS ROUTES INTERSECT PAVED PUBLIC ROADS, PROVISIONS SHALL BE MADE TO MINIMIZE THE TRANSPORT OF SEDIMENT BY RUNOFF OR VEHICLE TRACKING ONTO THE PAVED SURFACE. THE PROVISIONS MAY INCLUDE SPRAYING VEHICLE WHEELS TO CLEAR SEDIMENT BEFORE EXITING THE CONSTRUCTION SITE OR OTHER MEASURES APPROVED BY THE ENGINEER.

LEGEND

SYMBOL	DESCRIPTION
◆	INLET FILTER/SEDIMENT CONTROL, DRAINAGE STRUCTURE



Drawing file: W:\Projects\150508290 - St. Charles Rd\150508290 - St. Charles Rd\150508290.dwg Dec 08, 2009 9:59am

HANCOCK ENGINEERING
 Civil Engineers
 Municipal Consultants
 Established 1911

9033 Riverfront Blvd
 Westchester, Illinois 60154-2786
 Phone: 708-661-5500
 Fax: 708-661-5292

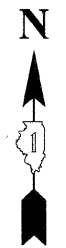
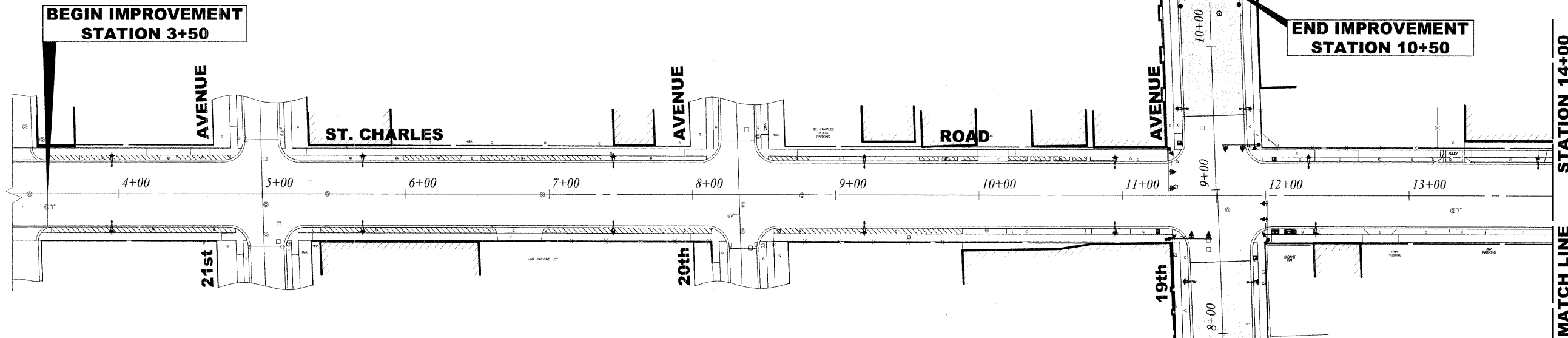
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	DRAWN -- MK/LEV	REVISED --
PLOT SCALE --	CHECKED -- SBC/JG/MV	REVISED --
PLOT DATE --	DATE -- 11-30-09	REVISED --

**STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION**

EROSION CONTROL PLAN

SCALE: 1" = 40' SHEET NO. 3 OF 3 SHEETS STA. 48+00 TO STA. 58+95

F.A.U. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
1397	09-00129-00-PV	COOK	103	68
CONTRACT NO. 63428				
FED. ROAD DIST. NO. 1 ILLINOIS FED. AID PROJECT M-9003 (267)				
(BOOK NOS. 1579, 1583, 1589) E.H.E. PROJECT NO. 585-08-29001				



LANDSCAPING NOTES

SODDING:

ALL DISTURBED AREAS INDICATED ON CROSS SECTION OR LANDSCAPING PLANS TO BE SODDED, INCLUDING FERTILIZER NUTRIENTS*, AND SUPPLEMENTAL WATERING WHICH IS TO BE USED AFTER THE INITIAL WATERING (AS SPECIFIED AND AS DIRECTED BY THE ENGINEER) AT THE RATE OF 10 GALLONS PER SQUARE YARD SODDING. SODDED SLOPES WHICH ARE 2:1 OR STEEPER SHALL BE STAKED. (PROVIDE A 3" STRIP AROUND CATCH BASINS IN SEEDDED AREAS).

4" TOP SOIL LAYER:

SOIL SHALL BE SPREAD AS INDICATED ON THE TYPICAL CROSS SECTIONS.

FERTILIZER NUTRIENTS* FOR SODDING:

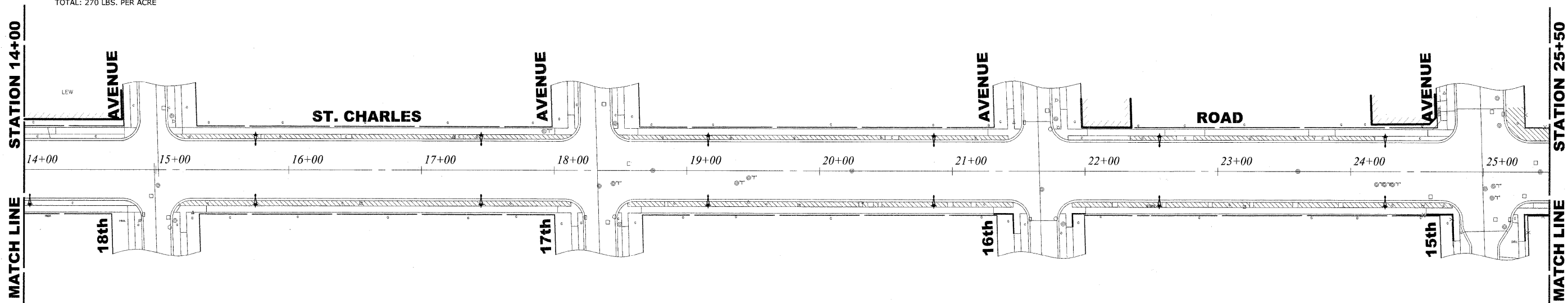
USE A FERTILIZER WITH A 1:1:1 RATIO PER ACRE:

- 90 LBS. NITROGEN FERTILIZER NUTRIENT
- 90 LBS. PHOSPHORUS FERTILIZER NUTRIENT
- 90 LBS POTASSIUM FERTILIZER NUTRIENT

TOTAL: 270 LBS. PER ACRE

LEGEND OF SYMBOLS

SYMBOL	DESCRIPTION
	PROPOSED CONCRETE AREA
	PROPOSED HOT MIX ASPHALT AREA
	PROPOSED SODDED PARKWAY



Drawing file: W:\Projects\565082900 - St. Charles Rd\61_ST. Charles 40 Scale.dwg Dec. 08, 2009 - 10:05am

HANCOCK ENGINEERING
 Civil Engineers
 Municipal Consultants
 Established 1911

9913 Riverhill Road
 Westchester, Illinois 60154-2780
 Phone: 708/681-0100
 Fax: 708/681-1212

USER NAME -	DESIGNED - MK/SBC	REVISED -
PLOT SCALE -	DRAWN - MK/LEV	REVISED -
PLOT DATE -	CHECKED - SBC/JGMV	REVISED -
	DATE - 11-30-09	REVISED -

**STATE OF ILLINOIS
 DEPARTMENT OF TRANSPORTATION**

ASPHALT AND LANDSCAPING PLAN

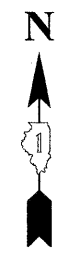
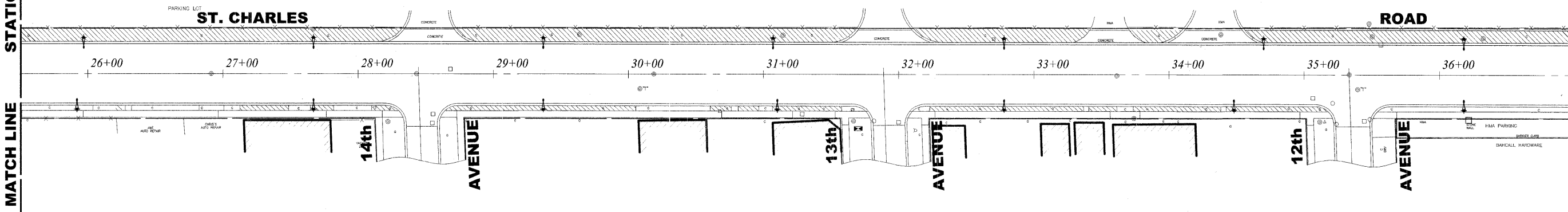
SCALE: 1" = 40' SHEET NO. 1 OF 3 SHEETS STA. 3+50 TO STA. 25+50

F.A.U. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
1397	09-00129-00-PV	COOK	103	69
CONTRACT NO. 6342B				
FED. ROAD DIST. NO. 1 ILLINOIS			FED. AID PROJECT M-9003 (267)	

(BOOK NOS. 1579, 1583, 1589) E.H.E PROJECT NO. 565-08-29001

STATION 25+50

STATION 37+00



LANDSCAPING NOTES

SODDING:

ALL DISTURBED AREAS INDICATED ON CROSS SECTION OR LANDSCAPING PLANS TO BE SODDED, INCLUDING FERTILIZER NUTRIENTS*, AND SUPPLEMENTAL WATERING WHICH IS TO BE USED AFTER THE INITIAL WATERING (AS SPECIFIED AND AS DIRECTED BY THE ENGINEER) AT THE RATE OF 10 GALLONS PER SQUARE YARD SODDING. SODDED SLOPES WHICH ARE 2:1 OR STEEPER SHALL BE STAKED. (PROVIDE A 3" STRIP AROUND CATCH BASINS IN SEEDED AREAS).

4" TOP SOIL LAYER:

SOIL SHALL BE SPREAD AS INDICATED ON THE TYPICAL CROSS SECTIONS.

FERTILIZER NUTRIENTS* FOR SODDING:

USE A FERTILIZER WITH A 1:1:1 RATIO PER ACRE:

- 90 LBS. NITROGEN FERTILIZER NUTRIENT
- 90 LBS. PHOSPHORUS FERTILIZER NUTRIENT
- 90 LBS. POTASSIUM FERTILIZER NUTRIENT

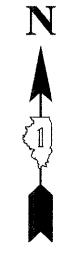
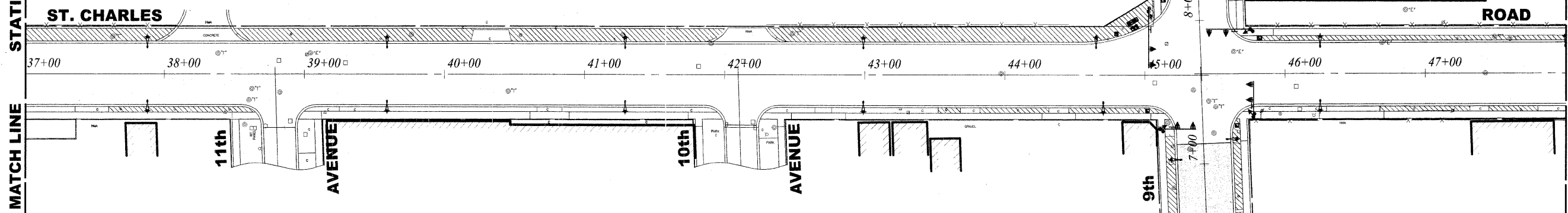
TOTAL: 270 LBS. PER ACRE

LEGEND OF SYMBOLS

SYMBOL	DESCRIPTION
	PROPOSED CONCRETE AREA
	PROPOSED HOT MIX ASPHALT AREA
	PROPOSED SODDED PARKWAY

STATION 37+00

STATION 48+00



Drawing File: W:\Projects\36508290 - St. Charles Rd\61-St. Charles 40 Scale.dwg
 Dec 08, 2009 - 10:06am
 User: SBC

HANCOCK ENGINEERING
 Civil Engineers
 Municipal Consultants
 Established 1911

1903 Riverfront Road
 Wheeling, Illinois 60090-2780
 Phone: 708-865-0300
 Fax: 708-865-1212

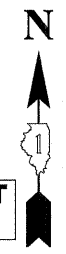
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	DRAWN - MK/LEV	REVISED -
PLOT SCALE -	CHECKED - SBC/JGMV	REVISED -
PLOT DATE -	DATE - 11-30-09	REVISED -

**STATE OF ILLINOIS
 DEPARTMENT OF TRANSPORTATION**

ASPHALT AND LANDSCAPING PLAN

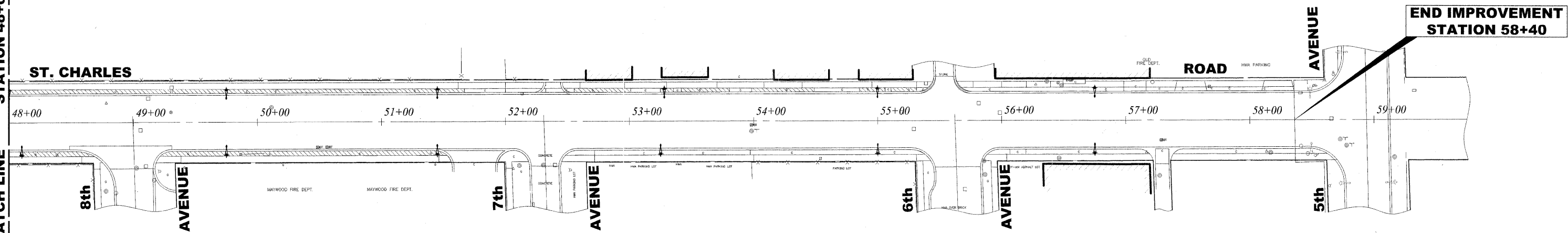
SCALE: 1" = 40' SHEET NO. 2 OF 3 SHEETS STA. 25+50 TO STA. 48+00

F.A.U. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
1397	09-00129-00-PV	COOK	103	70
CONTRACT NO. 6342B			FED. ROAD DIST. NO. 1 ILLINOIS FED. AID PROJECT M-9003 (267)	
(BOOK NOS. 1579, 1583, 1589) E.H.E PROJECT NO. 565-08-28001				



MATCH LINE

STATION 48+00



LANDSCAPING NOTES

SODDING:
 ALL DISTURBED AREAS INDICATED ON CROSS SECTION OR LANDSCAPING PLANS TO BE SODDED, INCLUDING FERTILIZER NUTRIENTS*, AND SUPPLEMENTAL WATERING WHICH IS TO BE USED AFTER THE INITIAL WATERING (AS SPECIFIED AND AS DIRECTED BY THE ENGINEER) AT THE RATE OF 10 GALLONS PER SQUARE YARD SODDING. SODDED SLOPES WHICH ARE 2:1 OR STEEPER SHALL BE STAKED. (PROVIDE A 3" STRIP AROUND CATCH BASINS IN SEEDED AREAS).

4" TOP SOIL LAYER:
 SOIL SHALL BE SPREAD AS INDICATED ON THE TYPICAL CROSS SECTIONS.

FERTILIZER NUTRIENTS* FOR SODDING:
 USE A FERTILIZER WITH A 1:1:1 RATIO PER ACRE:
 90 LBS. NITROGEN FERTILIZER NUTRIENT
 90 LBS. PHOSPHORUS FERTILIZER NUTRIENT
 90 LBS POTASSIUM FERTILIZER NUTRIENT
 TOTAL: 270 LBS. PER ACRE

LEGEND OF SYMBOLS

SYMBOL	DESCRIPTION
	PROPOSED CONCRETE AREA
	PROPOSED HOT MIX ASPHALT AREA
	PROPOSED SODDED PARKWAY

Drawing file: W:\Projects\56508290 - St. Charles Rd\61_S1_Charles_40_Scale.dwg Dec 08, 2009 - 10:06am

HANCOCK ENGINEERING
 Civil Engineers
 Municipal Consultants
 Established 1911
 9933 Blount Rd
 Woodbury, Illinois 60152-2786
 Phone: 708-885-6100
 Fax: 708-885-1212

USER NAME -	DESIGNED - MK/SBC	REVISED -
	DRAWN - MK/LEV	REVISED -
PLOT SCALE -	CHECKED - SBC/JGMV	REVISED -
PLOT DATE -	DATE - 11-30-09	REVISED -

**STATE OF ILLINOIS
 DEPARTMENT OF TRANSPORTATION**

ASPHALT AND LANDSCAPING PLAN

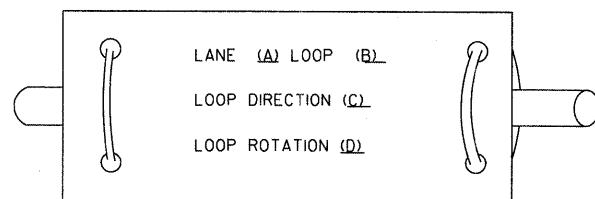
SCALE: 1" = 40' SHEET NO. 3 OF 3 SHEETS STA. 48+00 TO STA. 58+95

F.A.U. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
1397	09-00129-00-PV	COOK	103	71
CONTRACT NO. 63428			FED. ROAD DIST. NO. 1 ILLINOIS FED. AID PROJECT M-9003 (267)	
(BOOK NOS. 1579, 1583, 1589) E.H.E PROJECT NO. 565-08-29001				

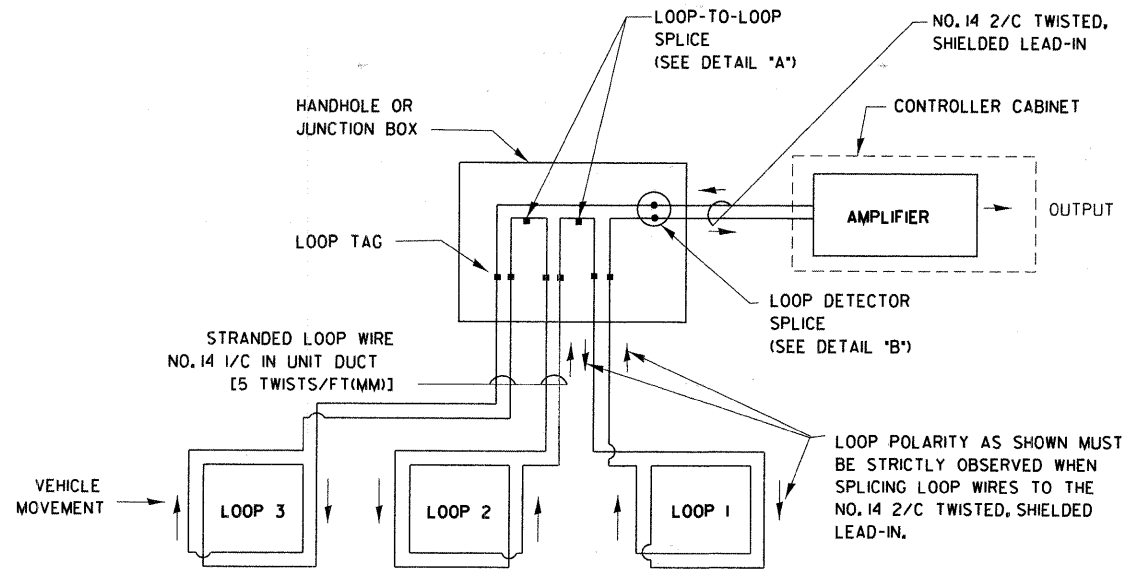
LOOP DETECTOR NOTES

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

LOOP LEAD-IN CABLE TAG

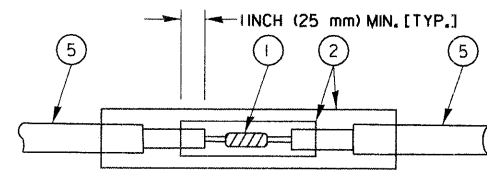


- LANE 1 IS THE LANE CLOSEST TO THE CENTERLINE OF THE ROADWAY
- LOOP #1 IS THE LOOP IN THE LANE CLOSEST TO THE INTERSECTION.
- LABEL LOOP CABLE "IN" OR LOOP CABLE "OUT".
- LABEL LOOP CABLE CLOCKWISE OR LOOP CABLE COUNTERCLOCKWISE.

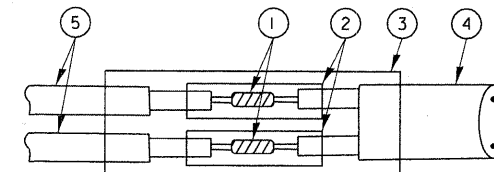


DETECTOR LOOP WIRING SCHEMATIC

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



**DETAIL 'A'
LOOP-TO-LOOP SPLICE**



**DETAIL 'B'
LOOP-TO-CONTROLLER SPLICE**

LOOP DETECTOR SPLICE

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

REVISIONS	
NAME	DATE

ILLINOIS DEPARTMENT OF TRANSPORTATION
DISTRICT ONE
STANDARD TRAFFIC SIGNAL
DESIGN DETAILS

SCALE: VERT. NONE
HORIZ. NONE
DATE 1-01-02

DRAWN BY: RWP
DESIGNED BY: DAD
CHECKED BY: DAZ
DATE 1-01-02

F.A.U. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
1397	09-00129-00-PV	COOK	103	72
CONTRACT NO. 63428			M-9003 (267)	
FED. ROAD DIST. NO. 1 ILLINOIS FED. AID PROJECT (BOOK NOS. 1579, 1583, 1589) E.H.E PROJECT NO. 565-08-29001				

HANCOCK ENGINEERING
Civil Engineers
Municipal Consultants
Established 1911

USER NAME -	DESIGNED - DAP	REVISED -
DESIGNED - DAP	DRAWN - DAP	REVISED -
CHECKED - JAM	DATE - 11-30-09	REVISED -

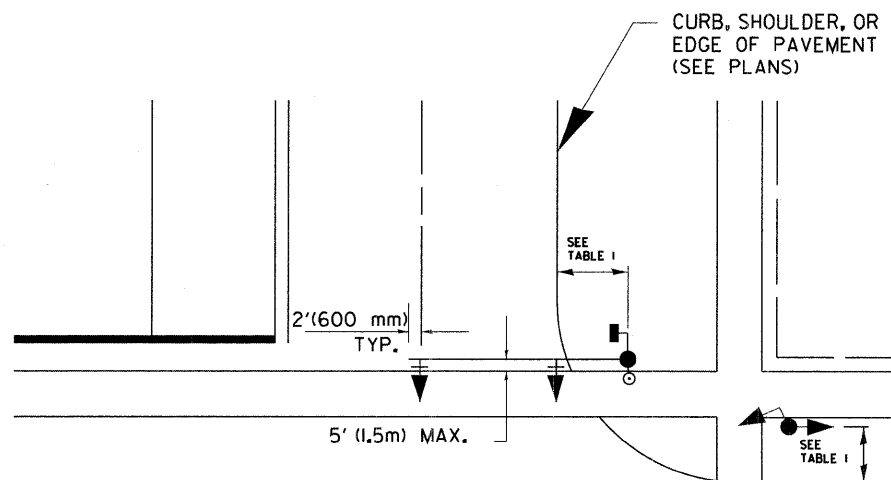
STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

SCALE: NTS SHEET NO. T1 OF SHEETS STA. TO STA.

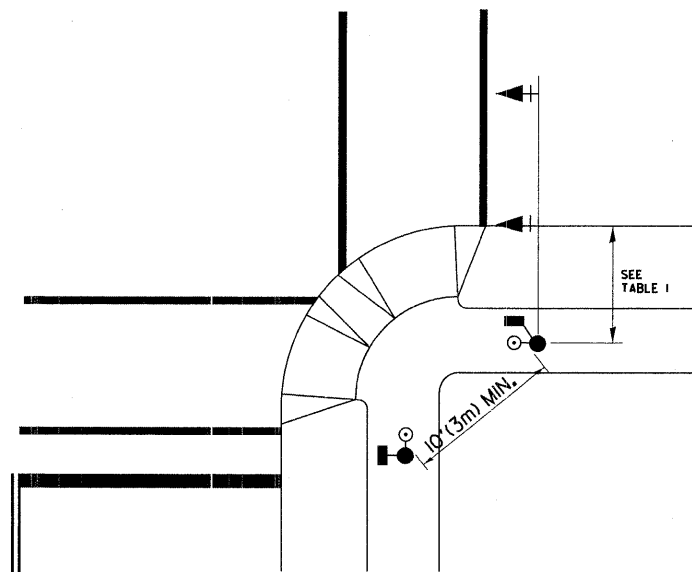
F.A.U. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
STA.	TO STA.			
FED. ROAD DIST. NO. 1	ILLINOIS	FED. AID PROJECT		

TRAFFIC SIGNAL MAST ARM AND POST

MAST ARM MOUNTED SIGNAL IN PROPOSED & FUTURE SIDEWALK AREA, INTERSECTION SHOWN WITH PEDESTRIAN SIGNAL AND PUSHBUTTON DETECTOR



PEDESTRIAN SIGNAL PUSHBUTTON



RECOMMENDED PUSHBUTTON LOCATIONS FOR ACCESSIBLE PEDESTRIAN SIGNALS SHALL BE IN ACCORDANCE WITH THE CURRENT MUTCD (SEE NOTE 1), TO MEET MUTCD REQUIREMENTS, PEDESTRIAN SIGNAL PUSHBUTTONS MAY HAVE TO BE MOUNTED ON A SEPARATE POST.

NOTES:

- AT ACCESSIBLE PEDESTRIAN SIGNAL LOCATIONS WITH PEDESTRIAN ACTUATION, EACH PUSHBUTTON SHALL ACTIVATE BOTH THE WALK INTERVAL AND THE ACCESSIBLE PEDESTRIAN SIGNALS.

AT ACCESSIBLE PEDESTRIAN SIGNAL LOCATIONS, PUSHBUTTONS SHOULD CLEARLY INDICATE WHICH CROSSWALK SIGNAL IS ACTUATED BY EACH PUSHBUTTON. PUSHBUTTONS AND TACTILE ARROWS SHOULD HAVE HIGH VISUAL CONTRAST (SEE THE DEPARTMENT OF JUSTICE'S AMERICANS WITH DISABILITIES ACT STANDARDS FOR ACCESSIBLE DESIGN, 1991). TACTILE ARROWS SHOULD POINT IN THE SAME DIRECTION AS THE ASSOCIATED CROSSWALK. AT CORNERS OF SIGNALIZED LOCATIONS WITH ACCESSIBLE PEDESTRIAN SIGNALS WHERE PEDESTRIAN PUSHBUTTONS ARE PROVIDED, THE PUSHBUTTONS SHOULD BE SEPARATED BY THE DISTANCE OF AT LEAST 10 FT (3m). THIS ENABLES PEDESTRIANS WHO HAVE VISUAL DISABILITIES TO DISTINGUISH AND LOCATE THE APPROPRIATE PUSHBUTTON.

PUSHBUTTONS FOR ACCESSIBLE PEDESTRIAN SIGNALS SHOULD BE LOCATED AS FOLLOWS:
 A: ADJACENT TO A LEVEL ALL-WEATHER SURFACE TO PROVIDE ACCESS FROM A WHEELCHAIR, AND WHERE THERE IS AN ALL WEATHER SURFACE, WHEELCHAIR ACCESSIBLE ROUTE TO THE RAMP.
 B: WITHIN 5 FT (1.5m) OF THE CROSSWALK EXTENDED.
 C: WITHIN 10 FT (3m) OF THE EDGE OF CURB, SHOULDER, OR PAVEMENT.
 D: PARALLEL TO THE CROSSWALK TO BE USED (SEE MUTCD FIGURE 4E-2).
 E: NORMAL PEDESTRIAN PUSHBUTTON MOUNTING HEIGHT SHOULD BE 3.5 FT (1.05m) ABOVE ADJACENT SIDEWALK.
- PEDESTRIAN SIGNAL FACES SHALL BE MOUNTED WITH THE BOTTOM OF THE HOUSING NOT LESS THAN 8 FT (2.4m) NOR MORE THAN 10 FT (3.0m) ABOVE THE SIDEWALK LEVEL AND SO THERE IS A PEDESTRIAN INDICATION IN THE LINE OF PEDESTRIANS' VISION WHICH PERTAINS TO THE CROSSWALK BEING USED.
- THE BOTTOM OF THE HOUSING OF A VEHICLE SIGNAL FACE, NOT MOUNTED OVER A ROADWAY, SHALL BE AT LEAST 10 FT (3.0m) BUT NOT MORE THAN 15 FT (4.5m) ABOVE THE SIDEWALK OR, ABOVE THE PAVEMENT GRADE AT THE CENTER OF THE HIGHWAY IF NO SIDEWALKS EXIST.
- THE BOTTOM OF THE HOUSING OF A VEHICLE SIGNAL FACE, MOUNTED OVER A ROADWAY, SHALL BE ACCORDING TO CURRENT STATE STANDARDS 877001 AND 877006. (16 FT (5m) MIN., 18 FT (5.5m) MAX., FROM HIGHEST POINT OF PAVEMENT)

PEDESTRIAN SIGNAL POST

PEDESTRIAN SIGNAL HEAD AND PEDESTRIAN PUSHBUTTON DETECTOR LOCATION

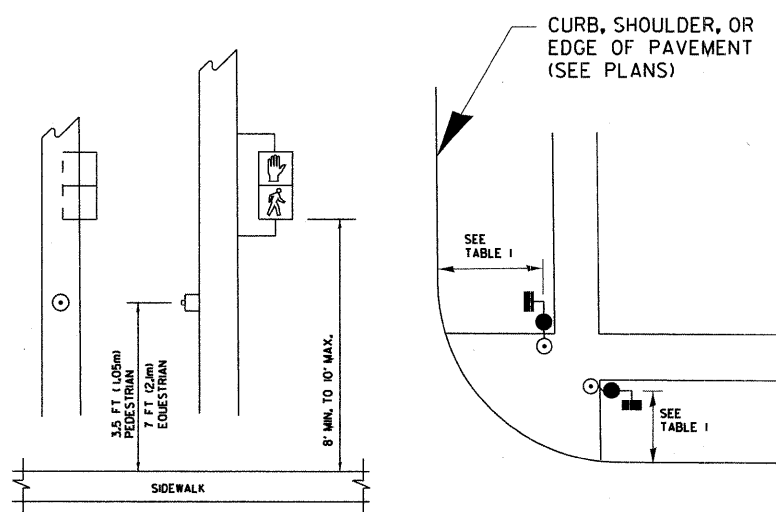


TABLE I

TRAFFIC SIGNAL EQUIPMENT	COMBINATION CONCRETE CURB AND GUTTER (MIN. DIST. FROM BACK OF CURB)	SHOULDER/NON-CURBED AREA (MIN. DIST. FROM EDGE OF PAVEMENT)
TRAFFIC SIGNAL MAST ARM POLE	6 FT (1.8m)	SHOULDER WIDTH + 2FT(0.6m), MINIMUM 10FT(3.0m)
TRAFFIC SIGNAL POST	4 FT (1.2m)	SHOULDER WIDTH + 2FT(0.6m), MINIMUM 10FT(3.0m)
PEDESTRIAN SIGNAL POST	4 FT (1.2m)	SHOULDER WIDTH + 2FT(0.6m), MINIMUM 10FT(3.0m)
PEDESTRIAN PUSHBUTTON	SEE NOTE 1	SEE NOTE 1

REVISIONS	
NAME	DATE

ILLINOIS DEPARTMENT OF TRANSPORTATION
DISTRICT I
STANDARD TRAFFIC SIGNAL DESIGN DETAILS
SCALE: VERT. NONE
HORIZ. DATE 1-01-02
DRAWN BY: RWP
DESIGNED BY: DAD
CHECKED BY: DAZ
SHEET 2 OF 4

Drawing File: S:\cvt\er... "degree" (getver... "dynam...") \$ (celling, 0, non id", "yyy - H:\m\m\m\m)

HANCOCK ENGINEERING
Civil Engineers
Municipal Consultants
Established 1911

USER NAME -	DESIGNED - DAP	REVISED -
PLLOT SCALE -	DRAWN - DAP	REVISED -
PLLOT DATE -	CHECKED - JAM	REVISED -
	DATE - 11-30-09	REVISED -

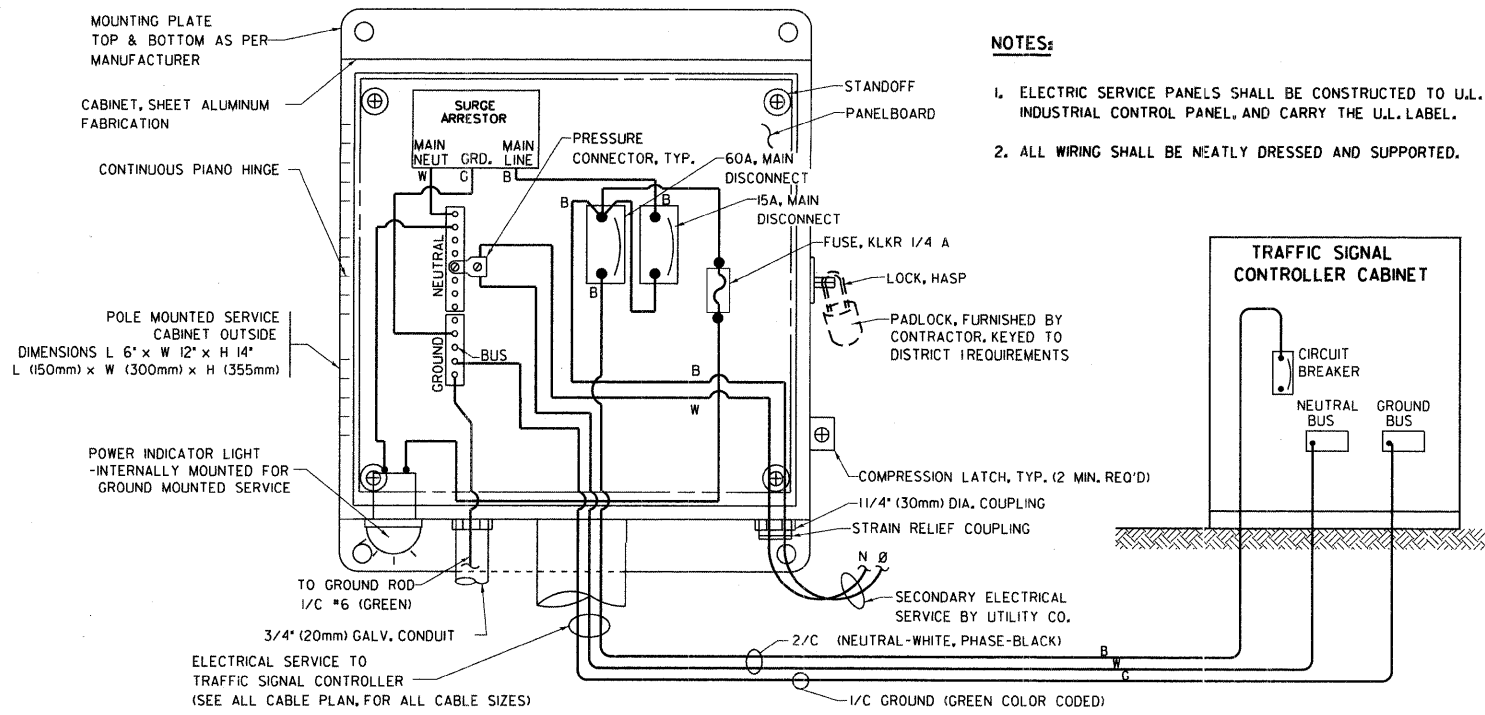
STATE OF ILLINOIS DEPARTMENT OF TRANSPORTATION

SCALE: NTS	SHEET No. T2 OF SHEETS	STA. TO STA.
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F.A.U. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
1397	09-00129-00-PV	COOK	103	73
CONTRACT NO. 63428				

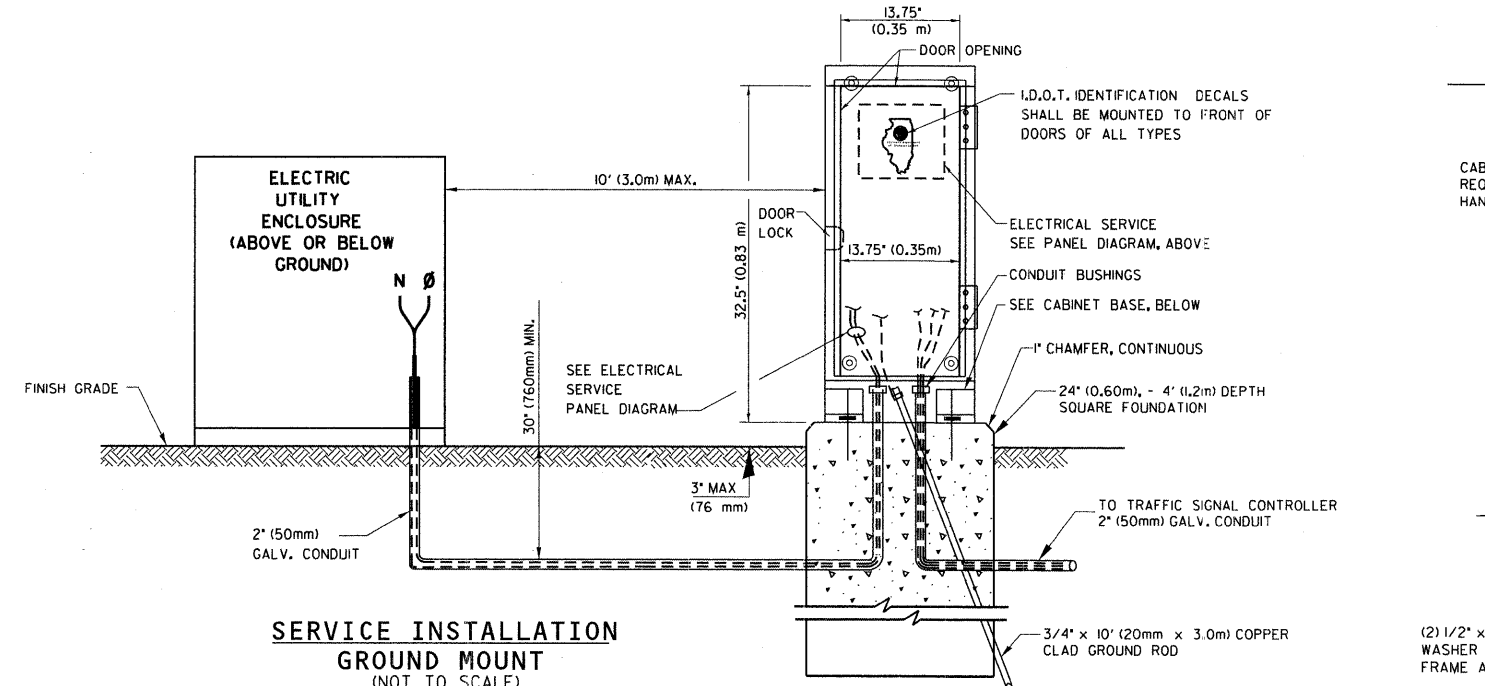
FED. ROAD DIST. NO. 1 ILLINOIS FED. AID PROJECT M-9003 (267)
(BOOK NOS. 1579, 1583, 1589) E.H.E PROJECT NO. 565-08-29001

F.A.U. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
STA.	TO STA.			
FED. ROAD DIST. NO.	ILLINOIS	FED. AID PROJECT		

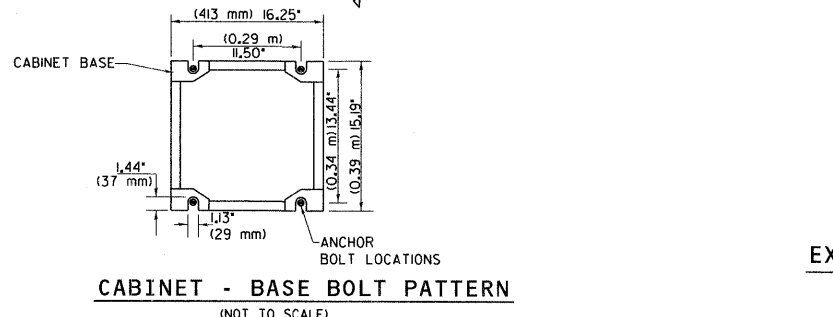


- NOTES:**
1. ELECTRIC SERVICE PANELS SHALL BE CONSTRUCTED TO U.L. STD 508, INDUSTRIAL CONTROL PANEL, AND CARRY THE U.L. LABEL.
 2. ALL WIRING SHALL BE NEATLY DRESSED AND SUPPORTED.

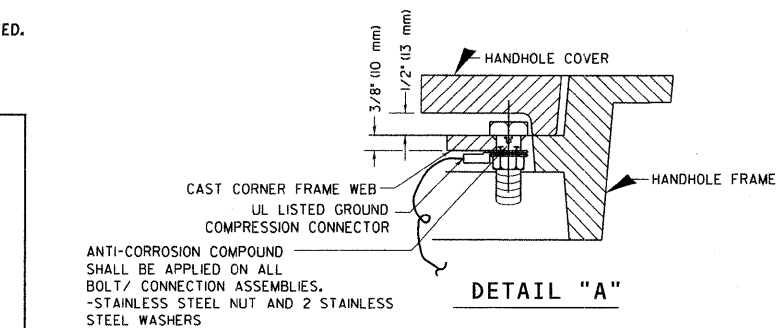
ELECTRICAL SERVICE - PANEL DIAGRAM (TYPICAL FOR POLE AND GROUND MOUNTED SERVICE)
SERVICE INSTALLATION POLE MOUNT (SHOWN)
 (NOT TO SCALE)



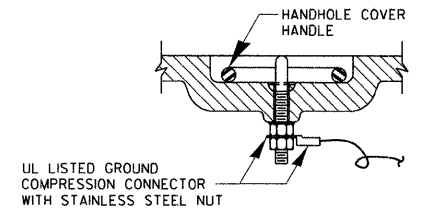
SERVICE INSTALLATION GROUND MOUNT
 (NOT TO SCALE)



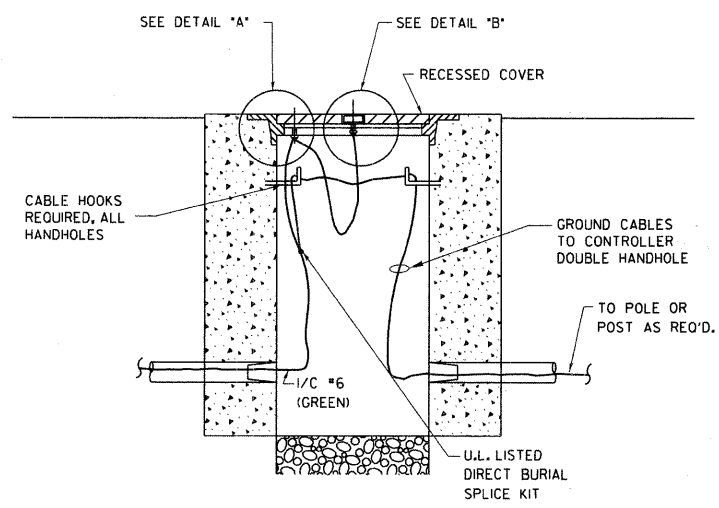
CABINET - BASE BOLT PATTERN
 (NOT TO SCALE)



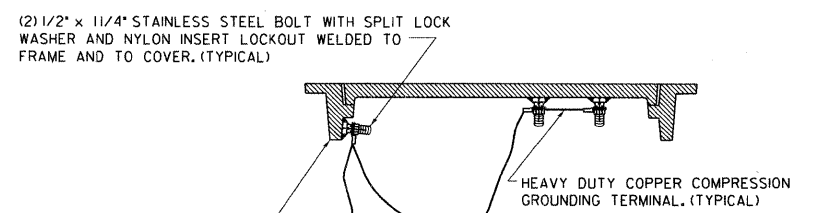
DETAIL "A"



DETAIL "B"



HANDHOLE COVER & FRAME - GROUNDING DETAIL
 (NOT TO SCALE)

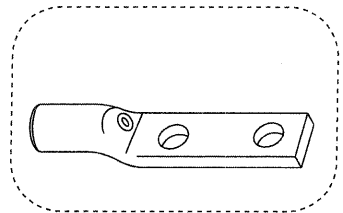


EXISTING HANDHOLE COVER & FRAME - GROUNDING DETAIL
 (NOT TO SCALE)

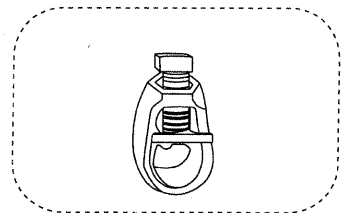
NOTES:

GROUNDING SYSTEM

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



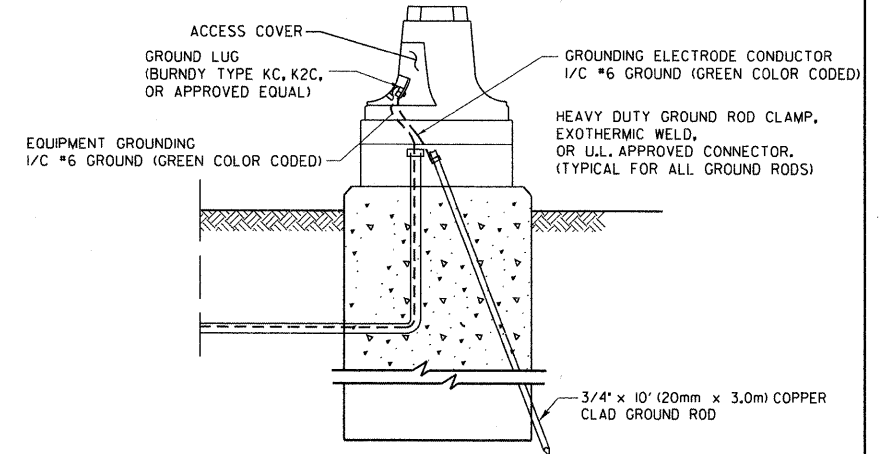
HEAVY-DUTY COMPRESSION TERMINAL (BURNDY TYPE YGHA OR APPROVED EQUAL)



3/4" (20mm) HEAVY-DUTY GROUND ROD CLAMP (BURNDY TYPE GRC OR APPROVED EQUAL)

NOTES:

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



MAST ARM POLE / POST-GROUNDING DETAIL
 (NOT TO SCALE)

REVISIONS	
NAME	DATE

ILLINOIS DEPARTMENT OF TRANSPORTATION
DISTRICT I
STANDARD TRAFFIC SIGNAL
DESIGN DETAILS

SCALE: VERT. NONE
 HORIZ. 1"=10'-0"
 DATE: 1-01-02
 DRAWN BY: RWP
 DESIGNED BY: DAD
 CHECKED BY: DAZ
 SHEET 3 OF 4

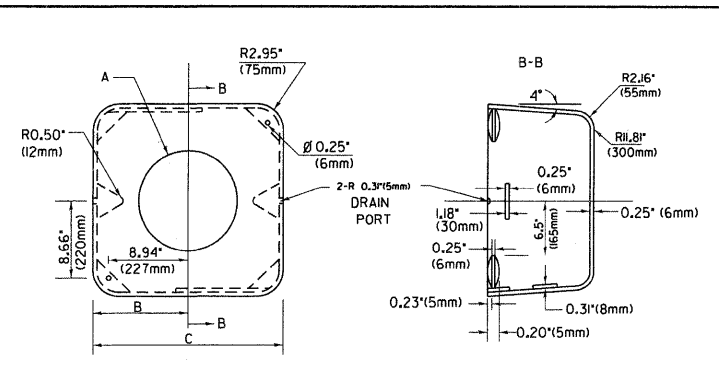
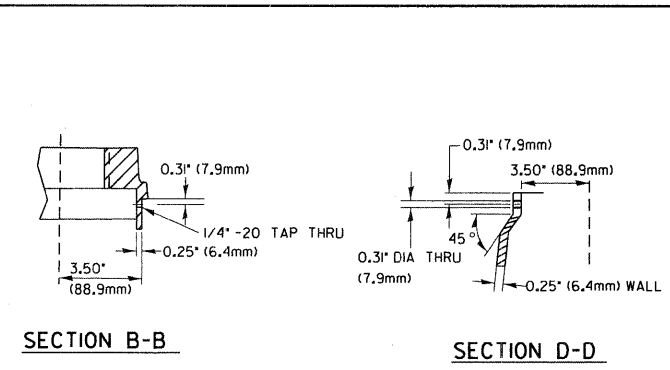
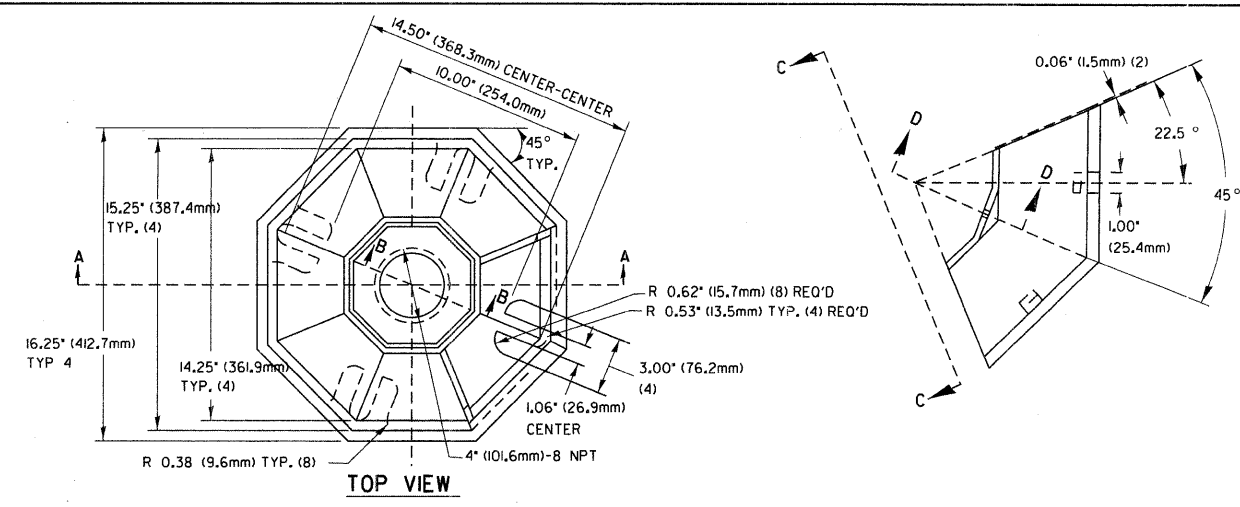
F.A.U. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
1397	09-00129-00-PV	COOK	103	74
CONTRACT NO.			63428	
FED. ROAD DIST. NO. 1		ILLINOIS	FED. AID PROJECT	M-9003 (267)
(BOOK NOS. 1579, 1583, 1589) E.H.E. PROJECT NO. 565-08-29001				

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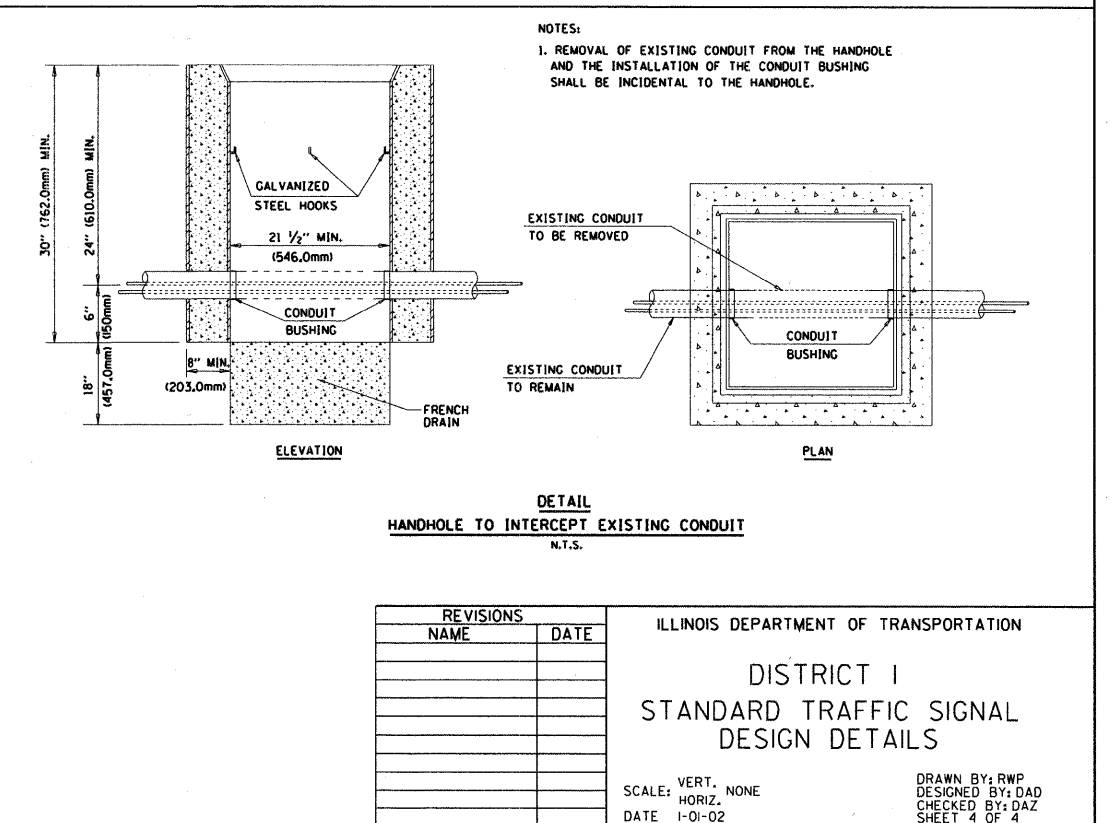
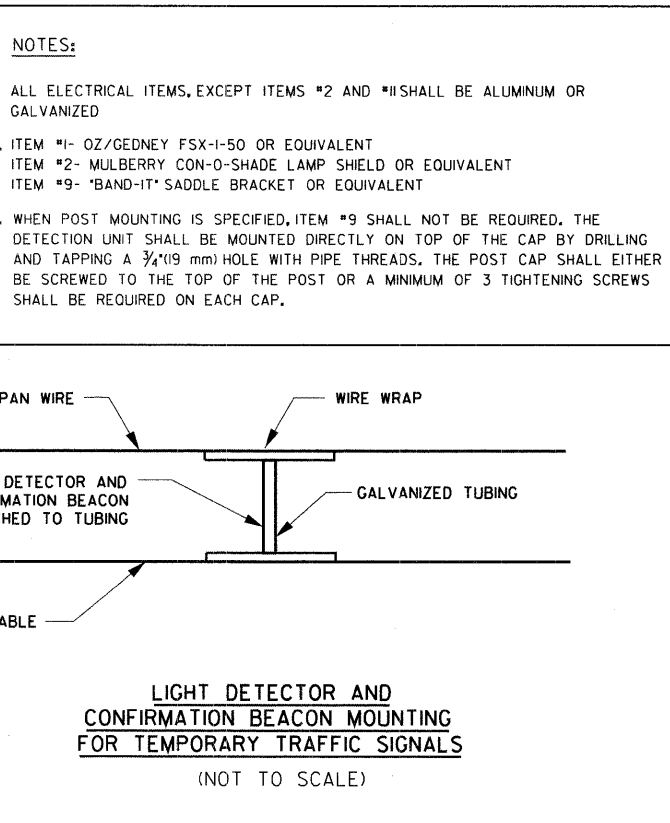
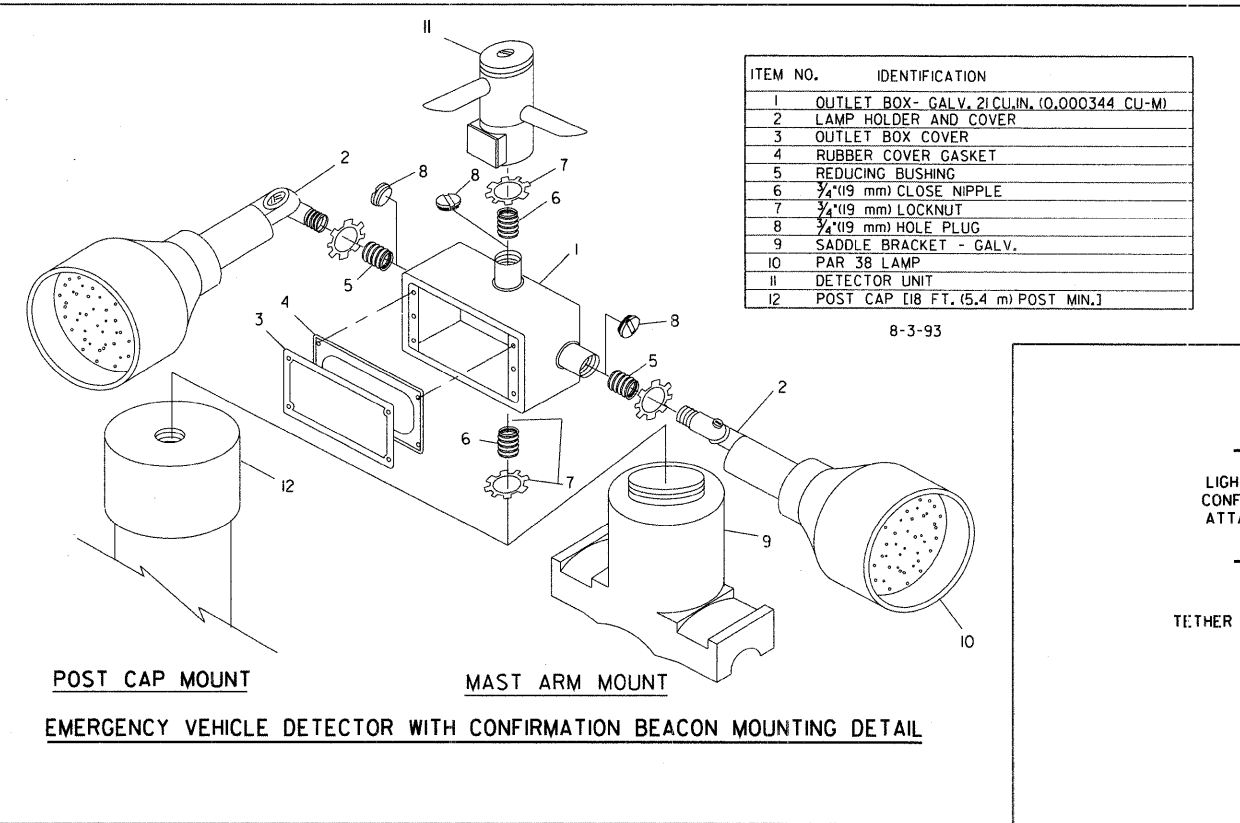
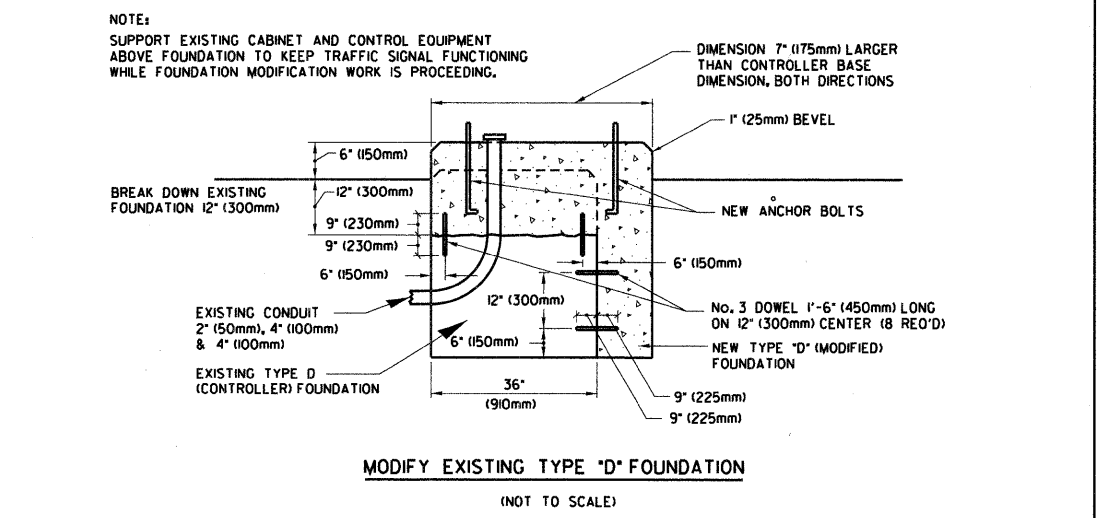
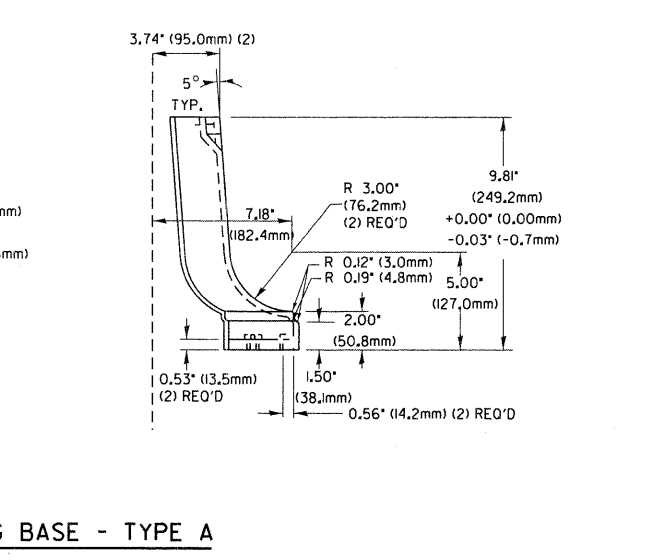
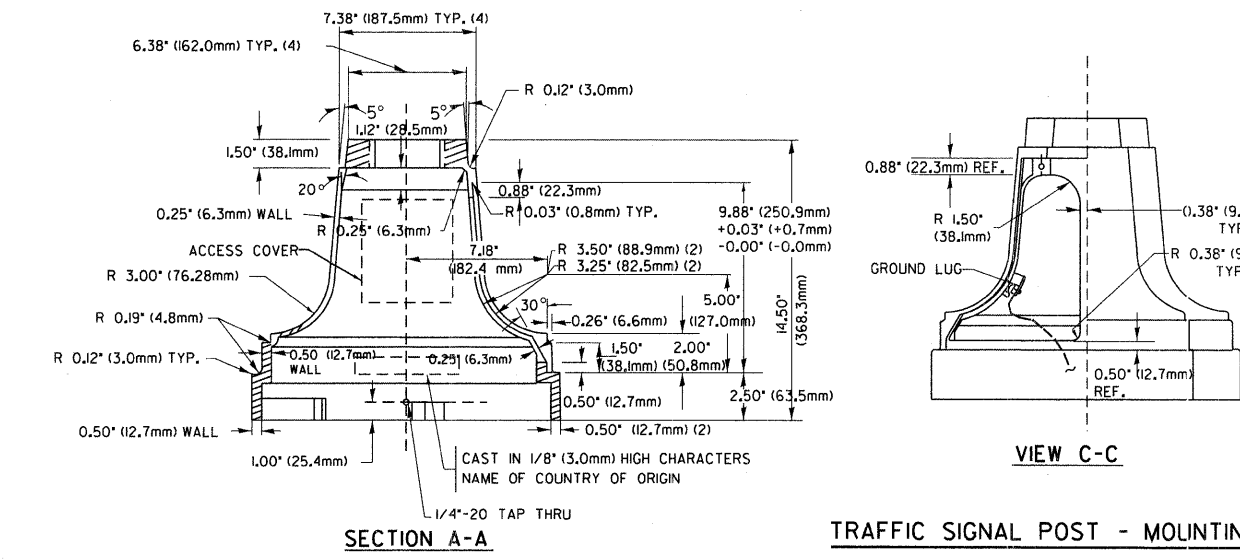
USER NAME -	DESIGNED - DAP	REVISED -
PLOT SCALE -	DRAWN - DAP	REVISED -
PLOT DATE -	CHECKED - JAM	REVISED -
	DATE - 11-30-09	REVISED -

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

SCALE: NTS SHEET NO. T3 OF SHEETS STA. TO STA.



TYPE	A	B	C	HEIGHT	WEIGHT
I	Ø 10.125\"(25.7mm)	9.5\"(241mm)	19\"(483mm)	12\"(300mm)	24kg
II	Ø 11.125\"(28.3mm)	10.75\"(273mm)	21.5\"(546mm)	12\"(300mm)	26kg



TRAFFIC SIGNAL QUANTITIES ONLY

CODE	ITEMS	UNIT	ST CHARLES & 9th AVE	ST CHARLES & 19th AVE	TOTAL
72000100	SIGN PANEL - TYPE 1	SQ FT	30	30	60
X8050015	SERVICE INSTALLATION, POLE MOUNTED	EACH	1	1	2
81000600	CONDUIT IN TRENCH, 2" DIA., GALVANIZED STEEL	FOOT	465	605	1070
81000800	CONDUIT IN TRENCH, 3" DIA., GALVANIZED STEEL	FOOT	42	31	73
81001000	CONDUIT IN TRENCH, 4" DIA., GALVANIZED STEEL	FOOT	10	10	20
81018500	CONDUIT PUSHED, 2" DIA., GALVANIZED STEEL	FOOT	68	65	133
81018900	CONDUIT PUSHED, 4" DIA., GALVANIZED STEEL	FOOT	208	191	399
81400100	HANDHOLE	EACH	6	6	12
81400300	DOUBLE HANDHOLE	EACH	1	1	2
81900200	TRENCH AND BACKFILL FOR ELECTRICAL WORK	FOOT	512	641	1153
85700200	FULL-ACTUATED CONTROLLER AND TYPE IV CABINET	EACH	1	1	2
X8730027	ELECTRIC CABLE IN CONDUIT, GROUNDING, NO. 6 1C	FOOT	374	344	718
87301215	ELECTRIC CABLE IN CONDUIT, SIGNAL NO. 14 2C	FOOT	469	434	903
87301225	ELECTRIC CABLE IN CONDUIT, SIGNAL NO. 14 3C	FOOT	870	900	1770
87301245	ELECTRIC CABLE IN CONDUIT, SIGNAL NO. 14 5C	FOOT	1602	1650	3252
87301305	ELECTRIC CABLE IN CONDUIT, LEAD-IN, NO. 14 1 PAIR	FOOT	1270	1220	2490
87301805	ELECTRIC CABLE IN CONDUIT, SERVICE, NO. 6 2C	FOOT	50	195	245
87700160	STEEL MAST ARM ASSEMBLY AND POLE, 24 FT.	EACH	2	1	3
87700170	STEEL MAST ARM ASSEMBLY AND POLE, 26 FT.	EACH		1	1
87700180	STEEL MAST ARM ASSEMBLY AND POLE, 28 FT.	EACH		2	2
87700190	STEEL MAST ARM ASSEMBLY AND POLE, 30 FT.	EACH	1		1
87700240	STEEL MAST ARM ASSEMBLY AND POLE, 40 FT.	EACH	1		1
87800150	CONCRETE FOUNDATION, TYPE C	FOOT	4	4	8
87800400	CONCRETE FOUNDATION, TYPE E 30-INCH DIAMETER	FOOT	60	60	120
88030020	SIGNAL HEAD, LED, 1-FACE, 3-SECTION, MAST ARM MOUNTED	EACH	8	8	16
88030050	SIGNAL HEAD, LED, 1-FACE, 3-SECTION, BRACKET MOUNTED	EACH	4	4	8
88102747	PEDESTRIAN SIGNAL HEAD, LED, 2-FACE, BRACKET MOUNTED WITH COUNTDOWN TIMER	EACH	4	4	8
88200210	TRAFFIC SIGNAL BACKPLATE, LOUVERED, ALUMINUM	EACH	8	8	16
88500100	INDUCTIVE LOOP DETECTOR	EACH	6	6	12
88600100	DETECTOR LOOP, TYPE I	FOOT	621	666	1287
88800100	PEDESTRIAN PUSH-BUTTON	EACH	4	4	8
89000100	TEMPORARY TRAFFIC SIGNAL INSTALLATION	EACH	1	1	2
89502375	REMOVE EXISTING TRAFFIC SIGNAL EQUIPMENT	EACH	1	1	2
89502380	REMOVE EXISTING HANDHOLE	EACH	6	5	11
89502385	REMOVE EXISTING CONCRETE FOUNDATION	EACH	8	7	15
X8620020	UNINTERRUPTABLE POWER SUPPLY	EACH	1	1	2
X0325737	TEMPORARY TRAFFIC SIGNAL TIMING	EACH	1	1	2

PREPARED BY:
METRO TRANSPORTATION GROUP, INC.
 TRAFFIC ENGINEERING, TRANSPORTATION PLANNING,
 TRANSPORTATION ENGINEERING, SIGNAL SYSTEMS/DESIGN
 3100 W. HIGGINS ROAD, HOFFMAN ESTATES, IL 60169
 PH# 630 215-1000 FAX# 630 215-3227

Drawing File: E:\cst\pvt\... (signature) (date) (user id) (year) (revision)



HANCOCK ENGINEERING
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 Established 1911

USER NAME -	DESIGNED - DAP	REVISED -
PLOT SCALE -	DRAWN - DAP	REVISED -
PLOT DATE -	CHECKED - JAM	REVISED -
	DATE - 11-30-09	REVISED -

**STATE OF ILLINOIS
 DEPARTMENT OF TRANSPORTATION**

TRAFFIC SIGNAL QUANTITIES
 9th AVE & ST. CHARLES RD AND 19th AVE & ST. CHARLES RD,
 MAYWOOD, IL

F.A.U. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
1397	09-00129-00-PV	COOK	103	76
CONTRACT NO.			63428	

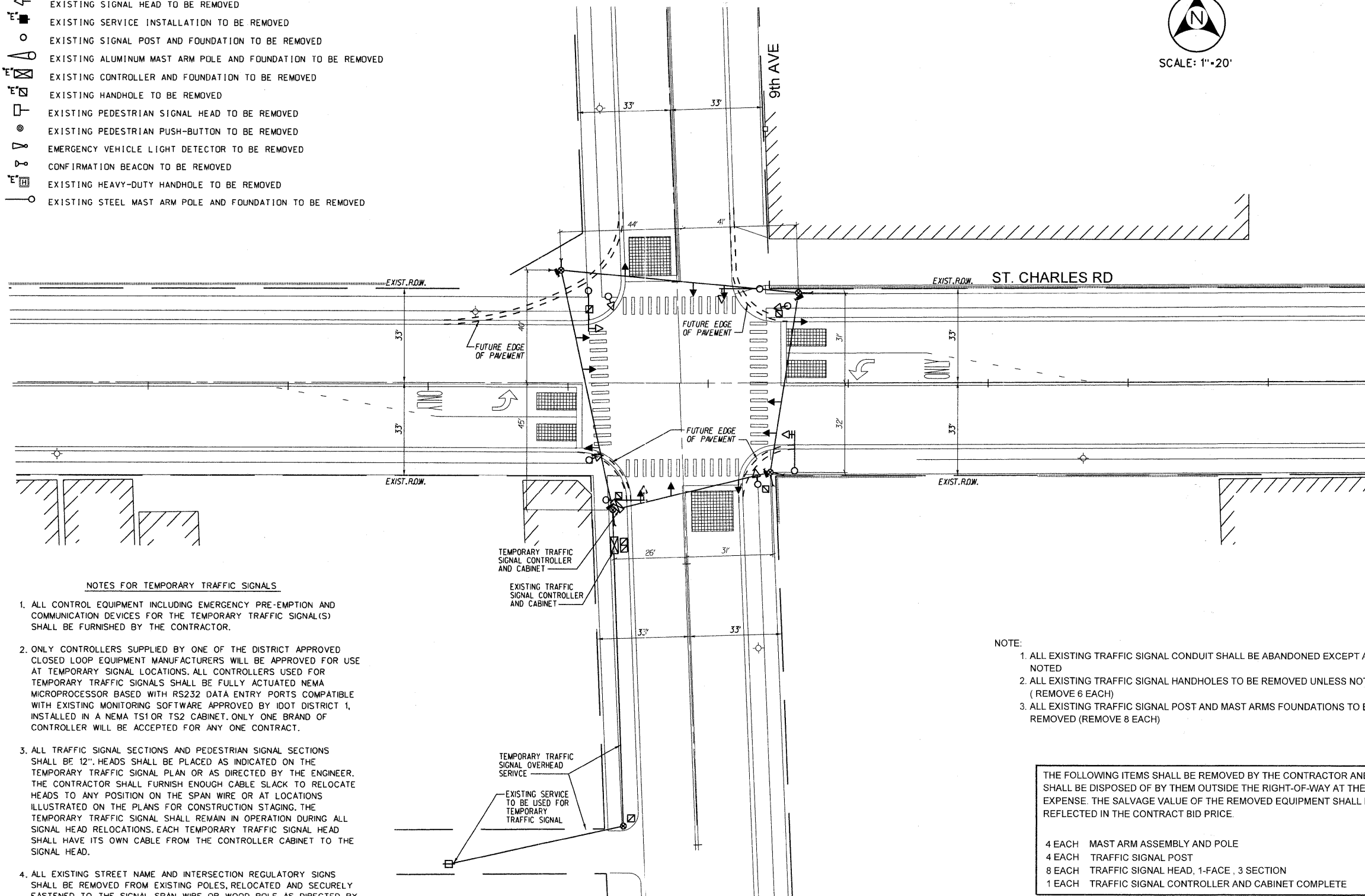
FED. ROAD DIST. NO. 1 ILLINOIS FED. AID PROJECT M-9003 (267)
 (BOOK NOS. 1579, 1583, 1589) E.H.E PROJECT NO. 565-08-29001

EXISTING EQUIPMENT TO BE REMOVED LEGEND

- EXISTING SIGNAL HEAD TO BE REMOVED
- EXISTING SERVICE INSTALLATION TO BE REMOVED
- EXISTING SIGNAL POST AND FOUNDATION TO BE REMOVED
- EXISTING ALUMINUM MAST ARM POLE AND FOUNDATION TO BE REMOVED
- EXISTING CONTROLLER AND FOUNDATION TO BE REMOVED
- EXISTING HANDHOLE TO BE REMOVED
- EXISTING PEDESTRIAN SIGNAL HEAD TO BE REMOVED
- EXISTING PEDESTRIAN PUSH-BUTTON TO BE REMOVED
- EMERGENCY VEHICLE LIGHT DETECTOR TO BE REMOVED
- CONFIRMATION BEACON TO BE REMOVED
- EXISTING HEAVY-DUTY HANDHOLE TO BE REMOVED
- EXISTING STEEL MAST ARM POLE AND FOUNDATION TO BE REMOVED

TEMPORARY TRAFFIC SIGNAL LEGEND

- TEMPORARY TRAFFIC SIGNAL HEAD SPAN WIRE MOUNTED ORIGINAL POSITION
- TEMPORARY TRAFFIC SIGNAL HEAD SPAN WIRE MOUNTED SECONDARY POSITION
- TEMPORARY WOOD POLE (CLASS 5 OR BETTER) 45 FOOT (13.7m.) MIN.
- TEMPORARY CONTROLLER CABINET
- TEMPORARY SPAN WIRE, TETHER WIRE, AND CABLE.
- TEMPORARY SERVICE INSTALLATION
- TEMPORARY PEDESTRIAN SIGNAL HEAD, BRACKET MOUNTED
- VIDEO VEHICLE DETECTOR UNIT
- PEDESTRIAN PUSHBUTTON DETECTOR
- EMERGENCY VEHICLE LIGHT DETECTOR
- CONFIRMATION BEACON
- VEHICLE DETECTOR, INDUCTION LOOP UNIT DUCT
- G.S. CONDUIT IN TRENCH OR PUSHED HANDHOLE
- HEAVY DUTY HANDHOLE
- COMMON TRENCH
- VEHICLE DETECTION ZONE



NOTES FOR TEMPORARY TRAFFIC SIGNALS

1. ALL CONTROL EQUIPMENT INCLUDING EMERGENCY PRE-EMPTION AND COMMUNICATION DEVICES FOR THE TEMPORARY TRAFFIC SIGNAL(S) SHALL BE FURNISHED BY THE CONTRACTOR.
2. ONLY CONTROLLERS SUPPLIED BY ONE OF THE DISTRICT APPROVED CLOSED LOOP EQUIPMENT MANUFACTURERS WILL BE APPROVED FOR USE AT TEMPORARY SIGNAL LOCATIONS. ALL CONTROLLERS USED FOR TEMPORARY TRAFFIC SIGNALS SHALL BE FULLY ACTUATED NEMA MICROPROCESSOR BASED WITH RS232 DATA ENTRY PORTS COMPATIBLE WITH EXISTING MONITORING SOFTWARE APPROVED BY IDOT DISTRICT 1, INSTALLED IN A NEMA TS1 OR TS2 CABINET. ONLY ONE BRAND OF CONTROLLER WILL BE ACCEPTED FOR ANY ONE CONTRACT.
3. ALL TRAFFIC SIGNAL SECTIONS AND PEDESTRIAN SIGNAL SECTIONS SHALL BE 12". HEADS SHALL BE PLACED AS INDICATED ON THE TEMPORARY TRAFFIC SIGNAL PLAN OR AS DIRECTED BY THE ENGINEER. THE CONTRACTOR SHALL FURNISH ENOUGH CABLE SLACK TO RELOCATE HEADS TO ANY POSITION ON THE SPAN WIRE OR AT LOCATIONS ILLUSTRATED ON THE PLANS FOR CONSTRUCTION STAGING. THE TEMPORARY TRAFFIC SIGNAL SHALL REMAIN IN OPERATION DURING ALL SIGNAL HEAD RELOCATIONS. EACH TEMPORARY TRAFFIC SIGNAL HEAD SHALL HAVE ITS OWN CABLE FROM THE CONTROLLER CABINET TO THE SIGNAL HEAD.
4. ALL EXISTING STREET NAME AND INTERSECTION REGULATORY SIGNS SHALL BE REMOVED FROM EXISTING POLES, RELOCATED AND SECURELY FASTENED TO THE SIGNAL SPAN WIRE OR WOOD POLE AS DIRECTED BY THE ENGINEER.
5. ANY TEMPORARY SIGNAL WITHIN AN EXISTING CLOSED LOOP TRAFFIC SIGNAL SYSTEM SHALL BE INTERCONNECTED TO THAT SYSTEM USING SIMILAR BRAND CONTROL EQUIPMENT.
6. THE TEMPORARY TRAFFIC SIGNAL SHALL HAVE THE SIGNAL HEAD DISPLAYS, SIGNAL HEAD PLACEMENTS AND CONTROLLER PHASING MATCH THE EXISTING TRAFFIC SIGNAL, AT THE TIME OF THE TURN ON, IF NO TRAFFIC STAGING IS IN PLACE OR WILL NOT BE STAGED ON THE DAY OF THE TURN ON.

NOTE:

1. ALL EXISTING TRAFFIC SIGNAL CONDUIT SHALL BE ABANDONED EXCEPT AS NOTED
2. ALL EXISTING TRAFFIC SIGNAL HANDHOLES TO BE REMOVED UNLESS NOTED (REMOVE 6 EACH)
3. ALL EXISTING TRAFFIC SIGNAL POST AND MAST ARMS FOUNDATIONS TO BE REMOVED (REMOVE 8 EACH)

THE FOLLOWING ITEMS SHALL BE REMOVED BY THE CONTRACTOR AND SHALL BE DISPOSED OF BY THEM OUTSIDE THE RIGHT-OF-WAY AT THEIR EXPENSE. THE SALVAGE VALUE OF THE REMOVED EQUIPMENT SHALL BE REFLECTED IN THE CONTRACT BID PRICE.

- 4 EACH MAST ARM ASSEMBLY AND POLE
- 4 EACH TRAFFIC SIGNAL POST
- 8 EACH TRAFFIC SIGNAL HEAD, 1-FACE, 3 SECTION
- 1 EACH TRAFFIC SIGNAL CONTROLLER AND CABINET COMPLETE

Drawing File: S:\projects\1397\1397.dwg, PLOT DATE: 11-30-09



USER NAME -	DESIGNED - DAP	REVISED -
PLLOT SCALE -	DRAWN - DAP	REVISED -
PLLOT DATE -	CHECKED - JAM	REVISED -
	DATE - 11-30-09	REVISED -

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

TEMPORARY SIGNAL INSTALLATION AND REMOVAL PLAN
9th AVE & ST. CHARLES RD

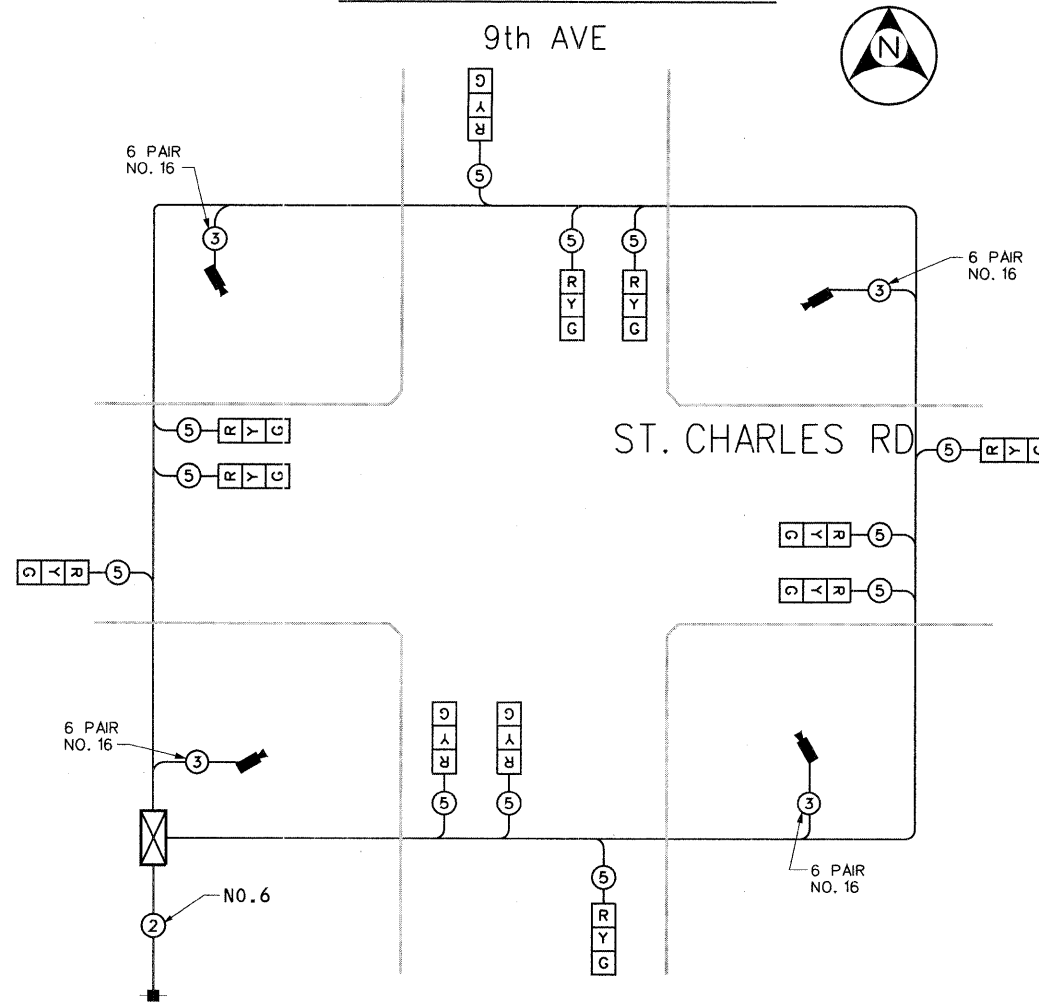
SCALE: 1"=20.0' SHEET NO. T6 OF SHEETS STA. TO STA.

PREPARED BY:
METRO TRANSPORTATION GROUP INC.
TRAFFIC ENGINEERING, TRANSPORTATION PLANNING,
TRANSPORTATION ENGINEERING, SIGNAL SYSTEMS/DESIGN
3100 W. HIGGINS ROAD, HOFFMAN ESTATES, IL 60169
PH# 630 213-1000 FAX# 630 213-3227

F.A.U. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
1397	09-00129-00-PV	COOK	103	77
CONTRACT NO.			63428	

FED. ROAD DIST. NO. 1 ILLINOIS FED. AID PROJECT M-9003 (267)
(BOOK NOS. 1579, 1583, 1589) E.H.E PROJECT NO. 565-08-29001

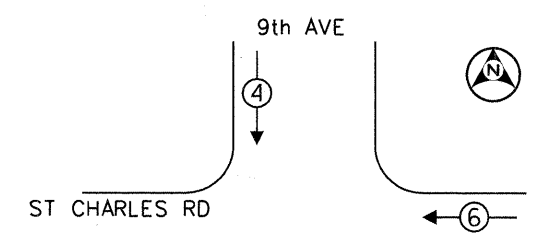
TEMPORARY CABLE PLAN



TEMPORARY CABLE DIAGRAM LEGEND

- TEMPORARY TRAFFIC SIGNAL SECTION OR PEDESTRIAN SIGNAL SECTION 12"
- TEMPORARY CONTROLLER CABINET
- PROPOSED SERVICE INSTALLATION
- INDICATES NUMBER OF CONDUCTORS IN CABLE. ALL CONDUCTORS TO BE NUMBER 14 A.W.G. WIRE UNLESS OTHERWISE NOTED.
- EMERGENCY VEHICLE LIGHT DETECTOR
- CONFIRMATION BEACON
- VEHICLE DETECTOR, INDUCTION LOOP
- PEDESTRIAN PUSHBUTTON DETECTOR
- 12"(300MM) PEDESTRIAN SIGNAL SECTION
- VIDEO VEHICLE DETECTION UNIT
- GROUND ROD AT CONTROLLER (C) OR ELECTRIC SERVICE INSTALLATION (S)

TEMPORARY CONTROLLER SEQUENCE



LEGEND

- SINGLE ENTRY PHASE
- DUAL ENTRY PHASE
- OVERLAP
- PEDESTRIAN PHASE
- * NUMBER REFERS TO ASSOCIATED PHASE.

PHASE DESIGNATION DIAGRAM

I.D.O.T. TRAFFIC SIGNAL INSTALLATION ELECTRICAL SERVICE REQUIREMENTS					TOTAL WATTAGE
TYPE	NO. OF LAMPS	WATTAGE	INCAND	LED % OPERATIONS	
SIGNAL (RED)	12	135	17	0.50	102
(YELLOW)	12	135	25	0.25	75
(GREEN)	12	135	15	0.25	45
ARROW		135	12	0.10	
PED. SIGNAL		90	25	1.00	
CONTROLLER	1	100	100	1.00	100
ILLUM. SIGN		84		0.05	
FLASHER				0.50	

ENERGY COSTS TO: VILLAGE OF MAYWOOD
 40 E. MADISON ST.
 MAYWOOD, ILLINOIS 60153
 (708) 344-1200

ENERGY SUPPLY - CONTACT: MICHAEL BELL
 PHONE: (708) 410-5314
 COMPANY: COMED

FOUNDATION (DEPTH)	FT. (m)	CABLE SLACK	FT. (m)	VERTICAL	FT. (m)
TYPE A - POST	4 (1.2)	HANDHOLE	6.5 (2.0)	ALL FOUNDATIONS	3.5 (1.1)
D - CONTROLLER	4 (1.2)	DOUBLE HANDHOLE	13 (4.0)	MAST ARM (L) POLE	20'+L-2' =
E - M ARM POLE		SIGNAL POST	2 (1.0)		(6.1+L-1.0) =
24" (600mm)	10 (3.0)	CONTROLLER CAB.	1 (0.5)	BRACKET MOUNTED	13 (4.0)
30" (750mm)	15 (4.6)	FIBER OPTIC	13 (4.0)	PED. PUSHBUTTON	4 (1.2)
36" (900mm)	15 (4.6)	ELECTRIC SERVICE	1 (0.5)	ELECTRIC SERVICE	13.5 (4.1)
		GROUND CABLE	1 (0.5)	SERVICE TO GROUND	13.5 (4.1)
				POST MOUNTED	6 (1.8)

HANCOCK ENGINEERING
 Civil Engineers
 Municipal Consultants
 Established 1911

USER NAME -	DESIGNED - DAP	REVISED -
PLOT SCALE -	DRAWN - DAP	REVISED -
PLOT DATE -	CHECKED - JAM	REVISED -
	DATE - 11-30-09	REVISED -

STATE OF ILLINOIS DEPARTMENT OF TRANSPORTATION

TEMPORARY CABLE PLAN, AND PHASE DESIGNATION DIAGRAM
 9th AVE & ST. CHARLES RD, MAYWOOD, IL

PREPARED BY:
METRO TRANSPORTATION GROUP, INC.
 TRAFFIC ENGINEERING, TRANSPORTATION PLANNING,
 TRANSPORTATION ENGINEERING, SIGNAL SYSTEMS/DESIGN
 3100 W. HIGGINS ROAD, HOFFMAN ESTATES, IL 60169
 PH# 630 215-1000 FAX# 630 215-3227

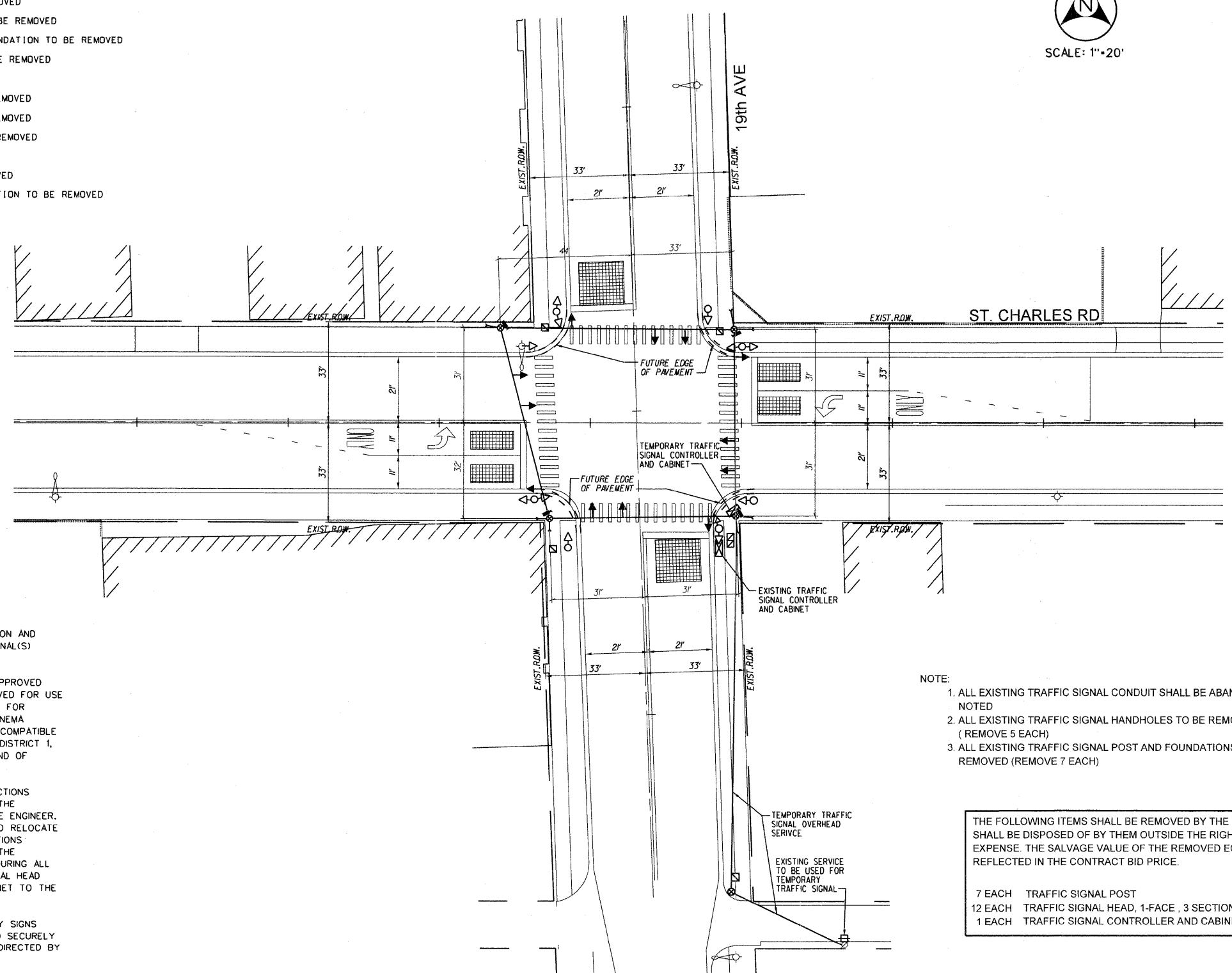
F.A.U. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
1397	09-00129-00-PV	COOK	103	78
CONTRACT NO.			63428	

EXISTING EQUIPMENT TO BE REMOVED LEGEND

- EXISTING SIGNAL HEAD TO BE REMOVED
- EXISTING SERVICE INSTALLATION TO BE REMOVED
- EXISTING SIGNAL POST AND FOUNDATION TO BE REMOVED
- EXISTING ALUMINUM MAST ARM POLE AND FOUNDATION TO BE REMOVED
- EXISTING CONTROLLER AND FOUNDATION TO BE REMOVED
- EXISTING HANDHOLE TO BE REMOVED
- EXISTING PEDESTRIAN SIGNAL HEAD TO BE REMOVED
- EXISTING PEDESTRIAN PUSH-BUTTON TO BE REMOVED
- EMERGENCY VEHICLE LIGHT DETECTOR TO BE REMOVED
- CONFIRMATION BEACON TO BE REMOVED
- EXISTING HEAVY-DUTY HANDHOLE TO BE REMOVED
- EXISTING STEEL MAST ARM POLE AND FOUNDATION TO BE REMOVED

TEMPORARY TRAFFIC SIGNAL LEGEND

- TEMPORARY TRAFFIC SIGNAL HEAD SPAN WIRE MOUNTED ORIGINAL POSITION
- TEMPORARY TRAFFIC SIGNAL HEAD SPAN WIRE MOUNTED SECONDARY POSITION
- TEMPORARY WOOD POLE (CLASS 5 OR BETTER) 45 FOOT (13.7m.) MIN.
- TEMPORARY CONTROLLER CABINET
- TEMPORARY SPAN WIRE, TETHER WIRE, AND CABLE.
- TEMPORARY SERVICE INSTALLATION
- TEMPORARY PEDESTRIAN SIGNAL HEAD, BRACKET MOUNTED
- VIDEO VEHICLE DETECTOR UNIT
- PEDESTRIAN PUSHBUTTON DETECTOR
- EMERGENCY VEHICLE LIGHT DETECTOR CONFIRMATION BEACON
- VEHICLE DETECTOR, INDUCTION LOOP UNIT DUCT
- G.S. CONDUIT IN TRENCH OR PUSHED
- HANDHOLE
- HEAVY DUTY HANDHOLE
- COMMON TRENCH
- VEHICLE DETECTION ZONE



NOTES FOR TEMPORARY TRAFFIC SIGNALS

1. ALL CONTROL EQUIPMENT INCLUDING EMERGENCY PRE-EMPTION AND COMMUNICATION DEVICES FOR THE TEMPORARY TRAFFIC SIGNAL(S) SHALL BE FURNISHED BY THE CONTRACTOR.
2. ONLY CONTROLLERS SUPPLIED BY ONE OF THE DISTRICT APPROVED CLOSED LOOP EQUIPMENT MANUFACTURERS WILL BE APPROVED FOR USE AT TEMPORARY SIGNAL LOCATIONS. ALL CONTROLLERS USED FOR TEMPORARY TRAFFIC SIGNALS SHALL BE FULLY ACTUATED NEMA MICROPROCESSOR BASED WITH RS232 DATA ENTRY PORTS COMPATIBLE WITH EXISTING MONITORING SOFTWARE APPROVED BY IDOT DISTRICT 1. INSTALLED IN A NEMA TS1 OR TS2 CABINET. ONLY ONE BRAND OF CONTROLLER WILL BE ACCEPTED FOR ANY ONE CONTRACT.
3. ALL TRAFFIC SIGNAL SECTIONS AND PEDESTRIAN SIGNAL SECTIONS SHALL BE 12". HEADS SHALL BE PLACED AS INDICATED ON THE TEMPORARY TRAFFIC SIGNAL PLAN OR AS DIRECTED BY THE ENGINEER. THE CONTRACTOR SHALL FURNISH ENOUGH CABLE SLACK TO RELOCATE HEADS TO ANY POSITION ON THE SPAN WIRE OR AT LOCATIONS ILLUSTRATED ON THE PLANS FOR CONSTRUCTION STAGING. THE TEMPORARY TRAFFIC SIGNAL SHALL REMAIN IN OPERATION DURING ALL SIGNAL HEAD RELOCATIONS. EACH TEMPORARY TRAFFIC SIGNAL HEAD SHALL HAVE ITS OWN CABLE FROM THE CONTROLLER CABINET TO THE SIGNAL HEAD.
4. ALL EXISTING STREET NAME AND INTERSECTION REGULATORY SIGNS SHALL BE REMOVED FROM EXISTING POLES, RELOCATED AND SECURELY FASTENED TO THE SIGNAL SPAN WIRE OR WOOD POLE AS DIRECTED BY THE ENGINEER.
5. ANY TEMPORARY SIGNAL WITHIN AN EXISTING CLOSED LOOP TRAFFIC SIGNAL SYSTEM SHALL BE INTERCONNECTED TO THAT SYSTEM USING SIMILAR BRAND CONTROL EQUIPMENT.
6. THE TEMPORARY TRAFFIC SIGNAL SHALL HAVE THE SIGNAL HEAD DISPLAYS, SIGNAL HEAD PLACEMENTS AND CONTROLLER PHASING MATCH THE EXISTING TRAFFIC SIGNAL, AT THE TIME OF THE TURN ON, IF NO TRAFFIC STAGING IS IN PLACE OR WILL NOT BE STAGED ON THE DAY OF THE TURN ON.

NOTE:

1. ALL EXISTING TRAFFIC SIGNAL CONDUIT SHALL BE ABANDONED EXCEPT AS NOTED
2. ALL EXISTING TRAFFIC SIGNAL HANDHOLES TO BE REMOVED UNLESS NOTED (REMOVE 5 EACH)
3. ALL EXISTING TRAFFIC SIGNAL POST AND FOUNDATIONS TO BE REMOVED (REMOVE 7 EACH)

THE FOLLOWING ITEMS SHALL BE REMOVED BY THE CONTRACTOR AND SHALL BE DISPOSED OF BY THEM OUTSIDE THE RIGHT-OF-WAY AT THEIR EXPENSE. THE SALVAGE VALUE OF THE REMOVED EQUIPMENT SHALL BE REFLECTED IN THE CONTRACT BID PRICE.

7 EACH	TRAFFIC SIGNAL POST
12 EACH	TRAFFIC SIGNAL HEAD, 1-FACE, 3 SECTION
1 EACH	TRAFFIC SIGNAL CONTROLLER AND CABINET COMPLETE

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HANCOCK ENGINEERING
 Civil Engineers
 Municipal Consultants
 Established 1911

USER NAME -	DESIGNED - DAP	REVISED -
	DRAWN - DAP	REVISED -
PLOT SCALE -	CHECKED - JAM	REVISED -
PLOT DATE -	DATE - 11-30-09	REVISED -

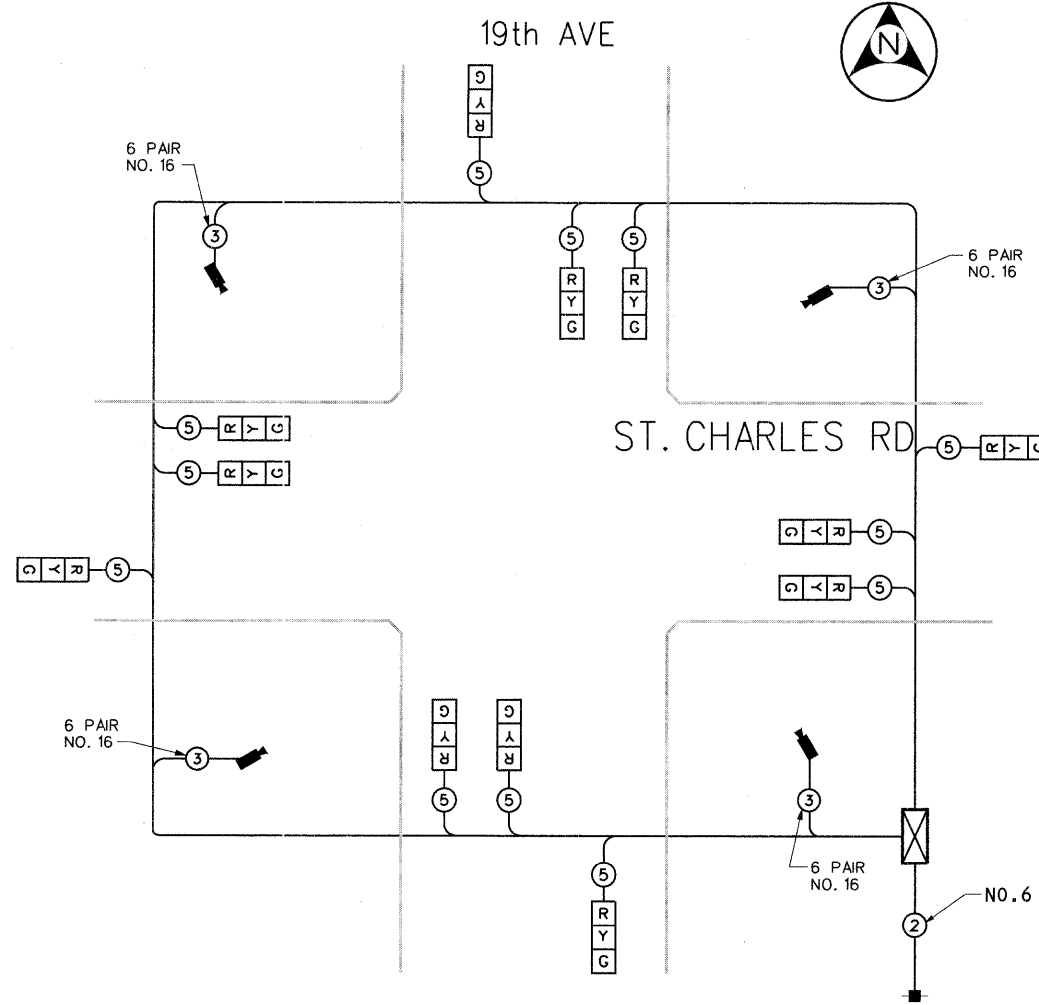
**STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION**

TEMPORARY SIGNAL INSTALLATION AND REMOVAL PLAN
 19th AVE & ST. CHARLES RD, MAYWOOD, IL
 SCALE: 1"=20.0' SHEET NO. T8 OF SHEETS STA. TO STA.

PREPARED BY:
METRO TRANSPORTATION GROUP, INC.
 TRAFFIC ENGINEERING, TRANSPORTATION PLANNING,
 TRANSPORTATION ENGINEERING, SIGNAL SYSTEMS/DESIGN
 3100 W. HIGGINS ROAD, HOFFMAN ESTATES, IL 60169
 PH# 630 213-1000 FAX# 630 213-3227

F.A.U. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
1397	09-00129-00-PV	COOK	103	79
CONTRACT NO.			63428	
FED. ROAD DIST. NO. 1			ILLINOIS	FED. AID PROJECT M-9003 (267)
(BOOK NOS. 1579, 1583, 1589) E.H.E. PROJECT NO. 565-08-29001				

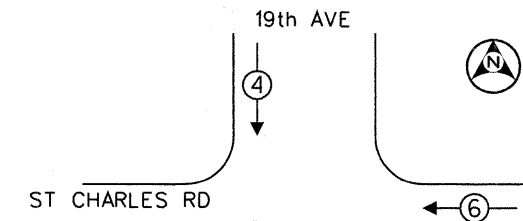
TEMPORARY CABLE PLAN



TEMPORARY CABLE DIAGRAM LEGEND

- [R] TEMPORARY TRAFFIC SIGNAL SECTION OR PEDESTRIAN SIGNAL SECTION 12"
- [X] TEMPORARY CONTROLLER CABINET
- PROPOSED SERVICE INSTALLATION
- INDICATES NUMBER OF CONDUCTORS IN CABLE. ALL CONDUCTORS TO BE NUMBER 14 A.W.G. WIRE UNLESS OTHERWISE NOTED.
- ▶ EMERGENCY VEHICLE LIGHT DETECTOR
- ▶ CONFIRMATION BEACON
- VEHICLE DETECTOR, INDUCTION LOOP
- PEDESTRIAN PUSHBUTTON DETECTOR
- ⊕ 12" (300MM) PEDESTRIAN SIGNAL SECTION
- VIDEO VEHICLE DETECTION UNIT
- ⊕ GROUND ROD AT CONTROLLER (C) OR ELECTRIC SERVICE INSTALLATION (S)

TEMPORARY CONTROLLER SEQUENCE



LEGEND

- ◀ [X] ▶ SINGLE ENTRY PHASE
- ◀ [X] [X] ▶ DUAL ENTRY PHASE
- ◀ [X] [X] [X] ▶ OVERLAP
- ◀ [X] [X] [X] ▶ PEDESTRIAN PHASE
- * NUMBER REFERS TO ASSOCIATED PHASE.

PHASE DESIGNATION DIAGRAM

I.D.O.T. TRAFFIC SIGNAL INSTALLATION ELECTRICAL SERVICE REQUIREMENTS					TOTAL WATTAGE
TYPE	NO. OF LAMPS	WATTAGE	LED % OPERATIONS		
SIGNAL (RED)	12	135	17	0.50	102
(YELLOW)	12	135	25	0.25	75
(GREEN)	12	135	15	0.25	45
ARROW		135	12	0.10	
PED. SIGNAL		90	25	1.00	
CONTROLLER	1	100	100	1.00	100
ILLUM. SIGN		84		0.05	
FLASHER				0.50	
TOTAL =					322.0

ENERGY COSTS TO: VILLAGE OF MAYWOOD
40 E. MADISON ST.
MAYWOOD, ILLINOIS 60153
(708) 344-1200

ENERGY SUPPLY - CONTACT: MICHAEL BELL
PHONE: (708) 410-5314
COMPANY: COMED

FOUNDATION (DEPTH)	FT. (m)	CABLE SLACK	FT. (m)	VERTICAL	FT. (m)
TYPE A - POST	4 (1.2)	HANDHOLE	6.5 (2.0)	ALL FOUNDATIONS	3.5 (1.1)
D - CONTROLLER	4 (1.2)	DOUBLE HANDHOLE	13 (4.0)	MAST ARM (L) POLE	20'±L-2 =
E - M ARM POLE		SIGNAL POST	2 (1.0)	(6.1+L-1.0) =	
24" (600mm)	10 (3.0)	CONTROLLER CAB.	1 (0.5)	BRACKET MOUNTED	13 (4.0)
30" (750mm)	15 (4.6)	FIBER OPTIC	13 (4.0)	PED. PUSHBUTTON	4 (1.2)
36" (900mm)	15 (4.6)	ELECTRIC SERVICE	1 (0.5)	ELECTRIC SERVICE	13.5 (4.1)
		GROUND CABLE	1 (0.5)	SERVICE TO GROUND	13.5 (4.1)
				POST MOUNTED	6 (1.8)

HANCOCK ENGINEERING
Civil Engineers
Municipal Consultants
Established 1911

USER NAME -	DESIGNED - DAP	REVISED -
PLOT SCALE -	DRAWN - DAP	REVISED -
PLOT DATE -	CHECKED - JAM	REVISED -
	DATE - 11-30-09	REVISED -

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

TEMPORARY CABLE PLAN, AND PHASE DESIGNATION DIAGRAM
19th AVE & ST. CHARLES RD, MAYWOOD, IL

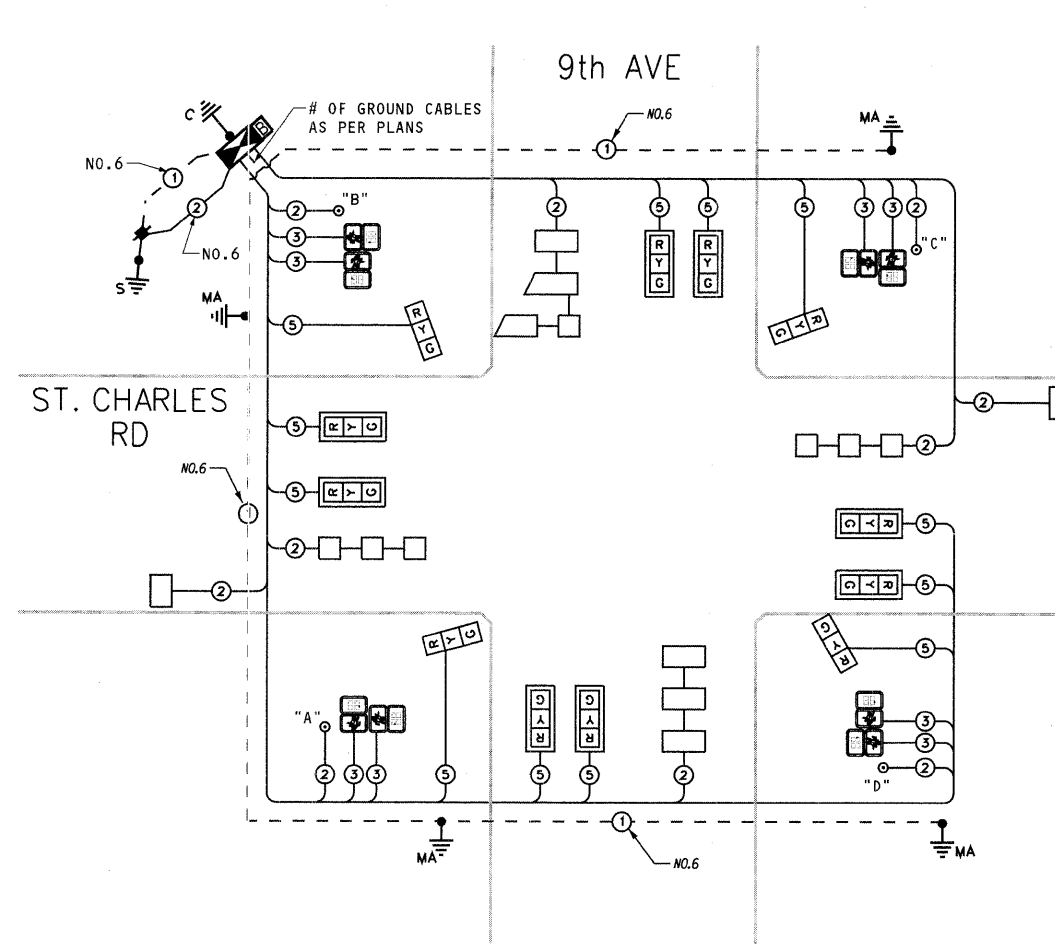
F.A.U. RTE. 1397	SECTION 09-00129-00-PV	COUNTY COOK	TOTAL SHEETS 103	SHEET NO. 80
CONTRACT NO. 63428				
FED. ROAD DIST. NO. 1 ILLINOIS FED. AID PROJECT M-9003 (267)				

(BOOK NOS. 1579, 1583, 1589) E.H.E PROJECT NO. 565-08-29001

SCHEDULE OF QUANTITIES

QTY	UNIT	DESCRIPTION
30	SQ FT	SIGN PANEL - TYPE 1
1	EACH	SERVICE INSTALLATION, POLE MOUNTED
465	FOOT	CONDUIT IN TRENCH, 2" DIA., GALVANIZED STEEL
42	FOOT	CONDUIT IN TRENCH, 3" DIA., GALVANIZED STEEL
10	FOOT	CONDUIT IN TRENCH, 4" DIA., GALVANIZED STEEL
68	FOOT	CONDUIT PUSHED, 2" DIA., GALVANIZED STEEL
208	FOOT	CONDUIT PUSHED, 4" DIA., GALVANIZED STEEL
6	EACH	HANDHOLE
1	EACH	DOUBLE HANDHOLE
210	FOOT	TRENCH AND BACKFILL FOR ELECTRICAL WORK
1	EACH	FULL-ACTUATED CONTROLLER AND TYPE IV CABINET
374	FOOT	ELECTRIC CABLE IN CONDUIT, GROUNDING, NO. 6 1C
469	FOOT	ELECTRIC CABLE IN CONDUIT, SIGNAL NO. 14 2C
870	FOOT	ELECTRIC CABLE IN CONDUIT, SIGNAL NO. 14 3C
1602	FOOT	ELECTRIC CABLE IN CONDUIT, SIGNAL NO. 14 5C
1270	FOOT	ELECTRIC CABLE IN CONDUIT, LEAD-IN, NO. 14 1 PAIR
50	FOOT	ELECTRIC CABLE IN CONDUIT, SERVICE, NO. 6 2C
2	EACH	STEEL MAST ARM ASSEMBLY AND POLE, 24 FT.
1	EACH	STEEL MAST ARM ASSEMBLY AND POLE, 30 FT.
1	EACH	STEEL MAST ARM ASSEMBLY AND POLE, 40 FT.
4	FOOT	CONCRETE FOUNDATION, TYPE C
60	FOOT	CONCRETE FOUNDATION, TYPE E 30-INCH DIAMETER
8	EACH	SIGNAL HEAD, LED, 1-FACE, 3-SECTION, MAST ARM MOUNTED
4	EACH	SIGNAL HEAD, LED, 1-FACE, 3-SECTION, BRACKET MOUNTED
4	EACH	PEDESTRIAN SIGNAL HEAD, LED, 2-FACE, BRACKET MOUNTED WITH COUNTDOWN TIMER
8	EACH	TRAFFIC SIGNAL BACKPLATE, LOUVERED, ALUMINUM
6	EACH	INDUCTIVE LOOP DETECTOR
621	FOOT	DETECTOR LOOP, TYPE I
4	EACH	PEDESTRIAN PUSH-BUTTON
1	EACH	TEMPORARY TRAFFIC SIGNAL INSTALLATION
1	EACH	REMOVE EXISTING TRAFFIC SIGNAL EQUIPMENT
6	EACH	REMOVE EXISTING HANDHOLE
8	EACH	REMOVE EXISTING CONCRETE FOUNDATION
1	EACH	UNINTERRUPTABLE POWER SUPPLY
1	EACH	TEMPORARY TRAFFIC SIGNAL TIMING

PROPOSED CABLE PLAN

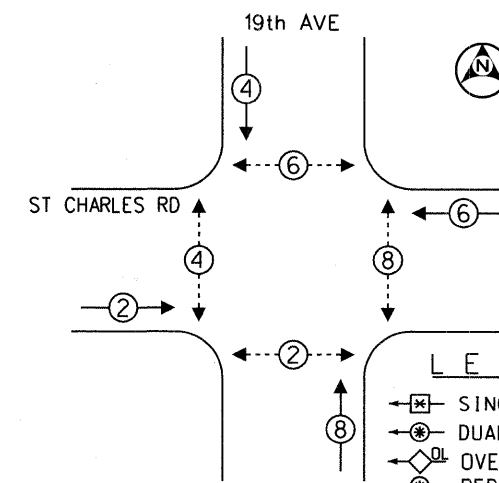


NOTE:
 PUSHBUTTON "A" SHALL PLACE A CALL IN PHASES 2 AND 4
 PUSHBUTTON "B" SHALL PLACE A CALL IN PHASES 4 AND 6
 PUSHBUTTON "C" SHALL PLACE A CALL IN PHASES 6 AND 8
 PUSHBUTTON "D" SHALL PLACE A CALL IN PHASES 2 AND 8

CABLE PLAN LEGEND

EXISTING	PROPOSED	DESCRIPTION
□	□	8" (200mm) TRAFFIC SIGNAL SECTION
□	□	12" (300mm) TRAFFIC SIGNAL SECTION
□	□	12" (300mm) PEDESTRIAN SIGNAL SECTION
□	□	12" PEDESTRIAN SIGNAL WITH COUNTDOWN TIMER
□	□	CONTROLLER CABINET
□	□	SERVICE INSTALLATION
□	□	TELEPHONE CONNECTION
□	□	VEHICLE DETECTOR, INDUCTION LOOP
□	□	MAGNETIC DETECTOR
□	□	EMERGENCY VEHICLE LIGHT DETECTOR
□	□	CONFIRMATION BEACON
□	□	PUSHBUTTON DETECTOR
□	□	DENOTES NUMBER OF CONDUCTORS. ALL CABLE NO. 14 EXCEPT AS INDICATED. ALL LOOP DETECTOR CABLE TO BE SHIELDED.
□	□	GROUND CABLE IN CONDUIT, NO. 6 SOLID COPPER (GREEN)
□	□	NO. 62.5/125 MM 12F & SM 12F, FIBER OPTIC CABLE
□	□	SIGNAL FACE WITH BACKPLATE
□	□	"P" INDICATES PROGRAMMED HEAD
□	□	RAILROAD CONTROL CABINET
□	□	ILLUMINATED SIGN, L.E.D. "NO LEFT TURN"
□	□	ILLUMINATED SIGN, L.E.D. "NO RIGHT TURN"
□	□	GROUND ROD AT HANDHOLE (H), DOUBLE HANDHOLE (H) OR CONTROLLER (C)
□	□	GROUND ROD AT POST (P) OR MAST ARM POLE (MA)
□	□	GROUND ROD AT ELECTRIC SERVICE INSTALLATION
□	□	UNINTERRUPTABLE POWER SUPPLY (BATTERY BACKUP)

PROPOSED CONTROLLER SEQUENCE



LEGEND

□	SINGLE ENTRY PHASE
□	DUAL ENTRY PHASE
□	OVERLAP
□	PEDESTRIAN PHASE
*	NUMBER REFERS TO ASSOCIATED PHASE.

PHASE DESIGNATION DIAGRAM

PREPARED BY:
METRO TRANSPORTATION GROUP, INC.
 TRAFFIC ENGINEERING, TRANSPORTATION PLANNING,
 TRANSPORTATION ENGINEERING, SIGNAL SYSTEMS/DESIGN
 3100 W. HIGGINS ROAD, HOFFMAN ESTATES, IL 60169
 PH# 630 213-1000 FAX# 630 213-3227

I.D.O.T. TRAFFIC SIGNAL INSTALLATION ELECTRICAL SERVICE REQUIREMENTS					TOTAL WATTAGE
TYPE	NO. OF LAMPS	WATTAGE	INCAND	LED % OPERATIONS	
SIGNAL (RED)	12	135	17	0.50	102
(YELLOW)	12	135	25	0.25	75
(GREEN)	12	135	15	0.25	45
ARROW	135	12	0.10		
PED. SIGNAL	8	90	25	1.00	200
CONTROLLER	1	100	100	1.00	100
ILLUM. SIGN		84		0.05	
FLASHER				0.50	
TOTAL =					522

ENERGY COSTS TO: VILLAGE OF MAYWOOD
 40 E. MADISON ST.
 MAYWOOD, ILLINOIS 60153
 (708) 344-1200

ENERGY SUPPLY - CONTACT: MICHAEL BELL
 PHONE: (708) 410-5314
 COMPANY: COMED

FOUNDATION (DEPTH)	FT. (m)	CABLE SLACK	FT. (m)	VERTICAL	FT. (m)
TYPE A - POST	4 (1.2)	HANDHOLE	6.5 (2.0)	ALL FOUNDATIONS	3.5 (1.1)
C - CONTROLLER	4 (1.2)	DOUBLE HANDHOLE	13 (4.0)	MAST ARM (L) POLE	20'±L-2 = (6.1+L-1.0)
D - CONTROLLER	4 (1.2)	SIGNAL POST	2 (1.0)	BRACKET MOUNTED	13 (4.0)
E - M ARM POLE		CONTROLLER CAB.	1 (0.5)	PED. PUSHBUTTON	4 (1.2)
24" (600mm)	10 (3.0)	FIBER OPTIC	13 (4.0)	ELECTRIC SERVICE	13.5 (4.1)
30" (750mm)	15 (4.6)	ELECTRIC SERVICE	1 (0.5)	SERVICE TO GROUND	13.5 (4.1)
36" (900mm)	15 (4.6)	GROUND CABLE	1 (0.5)	POST MOUNTED	6 (1.8)



USER NAME -
 DESIGNED - DAP
 DRAWN - DAP
 CHECKED - JAM
 PLOT DATE -
 DATE - 11-30-09
 REVISED -
 REVISED -
 REVISED -
 REVISED -

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

CABLE PLAN, PHASE DESIGNATION DIAGRAM AND SCHEDULE OF QUANTITIES
 9th AVE & ST. CHARLES RD, MAYWOOD, IL

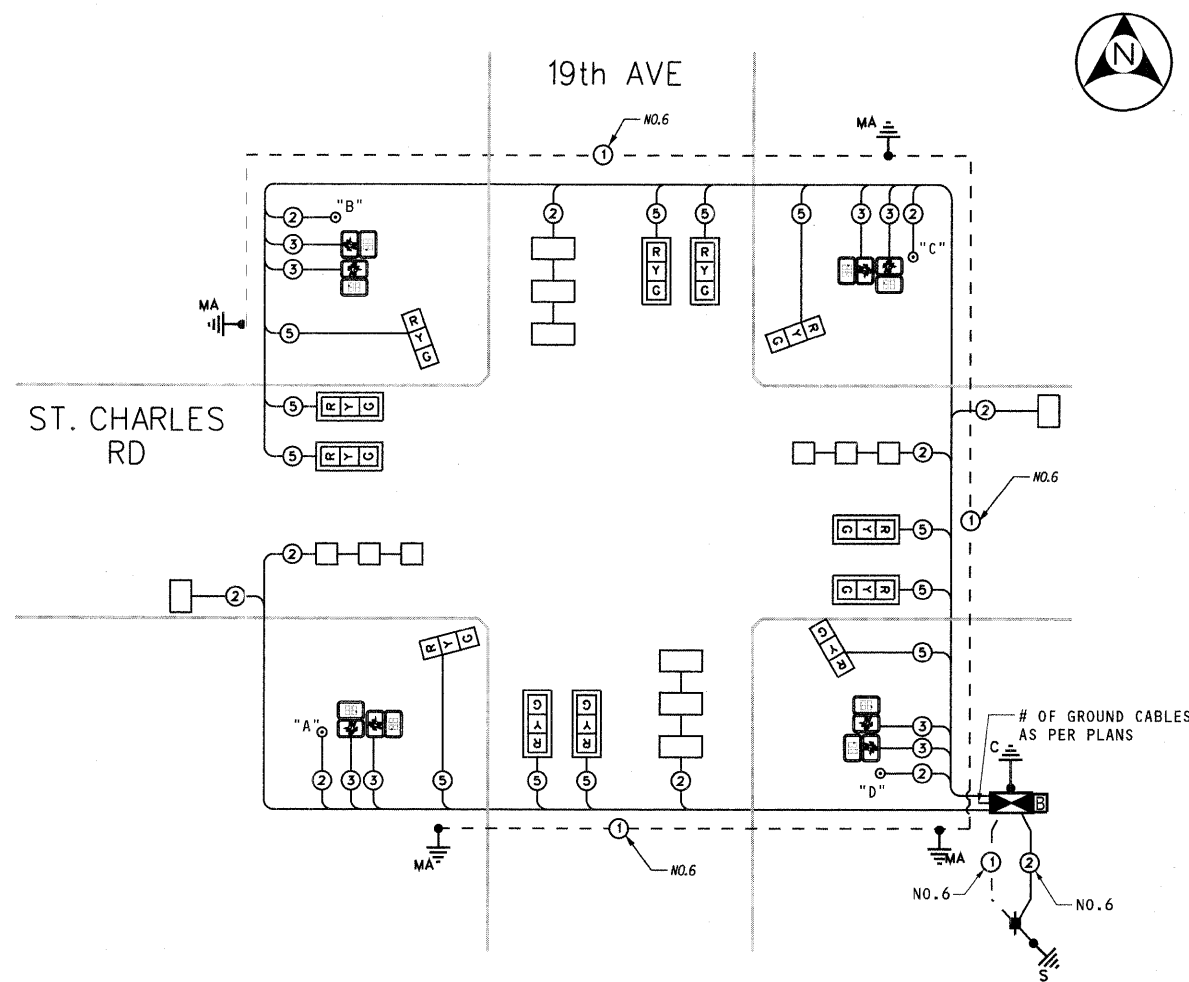
F.A.U. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
1397	09-00129-00-PV	COOK	103	82
CONTRACT NO. 63428			M-9003 (267)	

FED. ROAD DIST. NO. 1 ILLINOIS FED. AID PROJECT (BOOK NOS. 1579, 1583, 1589) E.H.E PROJECT NO. 565-08-29001

SCHEDULE OF QUANTITIES

QTY	UNIT	DESCRIPTION
30	SQ FT	SIGN PANEL - TYPE 1
1	EACH	SERVICE INSTALLATION, POLE MOUNTED
605	FOOT	CONDUIT IN TRENCH, 2" DIA., GALVANIZED STEEL
31	FOOT	CONDUIT IN TRENCH, 3" DIA., GALVANIZED STEEL
10	FOOT	CONDUIT IN TRENCH, 4" DIA., GALVANIZED STEEL
65	FOOT	CONDUIT PUSHED, 2" DIA., GALVANIZED STEEL
191	FOOT	CONDUIT PUSHED, 4" DIA., GALVANIZED STEEL
6	EACH	HANDHOLE
1	EACH	DOUBLE HANDHOLE
330	FOOT	TRENCH AND BACKFILL FOR ELECTRICAL WORK
1	EACH	FULL-ACTUATED CONTROLLER AND TYPE IV CABINET
344	FOOT	ELECTRIC CABLE IN CONDUIT, GROUNDING, NO. 6 1C
434	FOOT	ELECTRIC CABLE IN CONDUIT, SIGNAL NO. 14 2C
900	FOOT	ELECTRIC CABLE IN CONDUIT, SIGNAL NO. 14 3C
1650	FOOT	ELECTRIC CABLE IN CONDUIT, SIGNAL NO. 14 5C
1220	FOOT	ELECTRIC CABLE IN CONDUIT, LEAD-IN, NO. 14 1 PAIR
195	FOOT	ELECTRIC CABLE IN CONDUIT, SERVICE, NO. 6 2C
1	EACH	STEEL MAST ARM ASSEMBLY AND POLE, 24 FT.
1	EACH	STEEL MAST ARM ASSEMBLY AND POLE, 28 FT.
2	EACH	STEEL MAST ARM ASSEMBLY AND POLE, 28 FT.
4	FOOT	CONCRETE FOUNDATION, TYPE C
60	FOOT	CONCRETE FOUNDATION, TYPE E 30-INCH DIAMETER
8	EACH	SIGNAL HEAD, LED, 1-FACE, 3-SECTION, MAST ARM MOUNTED
4	EACH	SIGNAL HEAD, LED, 1-FACE, 3-SECTION, BRACKET MOUNTED
4	EACH	PEDESTRIAN SIGNAL HEAD, LED, 2-FACE, BRACKET MOUNTED WITH COUNTDOWN TIMER
8	EACH	TRAFFIC SIGNAL BACKPLATE, LOUVERED, ALUMINUM
6	EACH	INDUCTIVE LOOP DETECTOR
666	FOOT	DETECTOR LOOP, TYPE I
4	EACH	PEDESTRIAN PUSH-BUTTON
1	EACH	TEMPORARY TRAFFIC SIGNAL INSTALLATION
1	EACH	REMOVE EXISTING TRAFFIC SIGNAL EQUIPMENT
5	EACH	REMOVE EXISTING HANDHOLE
7	EACH	REMOVE EXISTING CONCRETE FOUNDATION
1	EACH	UNINTERRUPTABLE POWER SUPPLY
1	EACH	TEMPORARY TRAFFIC SIGNAL TIMING

PROPOSED CABLE PLAN

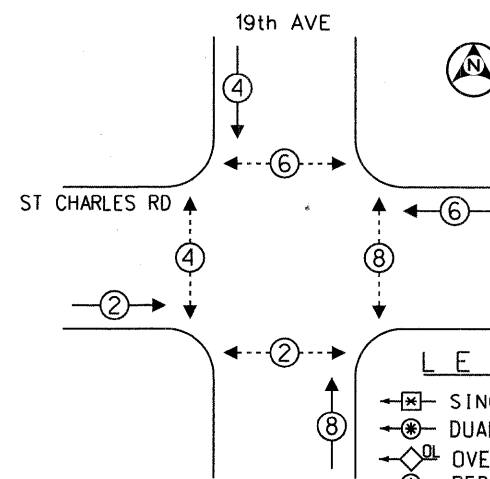


NOTE:
 PUSHBUTTON "A" SHALL PLACE A CALL IN PHASES 2 AND 4
 PUSHBUTTON "B" SHALL PLACE A CALL IN PHASES 4 AND 6
 PUSHBUTTON "C" SHALL PLACE A CALL IN PHASES 6 AND 8
 PUSHBUTTON "D" SHALL PLACE A CALL IN PHASES 2 AND 8

CABLE PLAN LEGEND

EXISTING	PROPOSED	DESCRIPTION
□	□	8" (200mm) TRAFFIC SIGNAL SECTION
□	□	12" (300mm) TRAFFIC SIGNAL SECTION
□	□	12" (300mm) PEDESTRIAN SIGNAL SECTION
□	□	12" PEDESTRIAN SIGNAL WITH COUNTDOWN TIMER
□	□	CONTROLLER CABINET
□	□	SERVICE INSTALLATION
□	□	TELEPHONE CONNECTION
□	□	VEHICLE DETECTOR, INDUCTION LOOP
□	□	MAGNETIC DETECTOR
□	□	EMERGENCY VEHICLE LIGHT DETECTOR
□	□	CONFIRMATION BEACON
□	□	PUSHBUTTON DETECTOR
□	□	DENOTES NUMBER OF CONDUCTORS. ALL CABLE NO. 14 EXCEPT AS INDICATED. ALL LOOP DETECTOR CABLE TO BE SHIELDED.
□	□	GROUND CABLE IN CONDUIT, NO. 6 SOLID COPPER (GREEN)
□	□	NO. 62.5/125 MM 12F & SM 12F, FIBER OPTIC CABLE
□	□	SIGNAL FACE WITH BACKPLATE
□	□	"P" INDICATES PROGRAMMED HEAD
□	□	RAILROAD CONTROL CABINET
□	□	ILLUMINATED SIGN, L.E.D. "NO LEFT TURN"
□	□	ILLUMINATED SIGN, L.E.D. "NO RIGHT TURN"
□	□	GROUND ROD AT HANDHOLE (H), DOUBLE HANDHOLE (H) OR CONTROLLER (C)
□	□	GROUND ROD AT POST (P) OR MAST ARM POLE (MA)
□	□	GROUND ROD AT ELECTRIC SERVICE INSTALLATION
□	□	UNINTERRUPTABLE POWER SUPPLY (BATTERY BACKUP)

PROPOSED CONTROLLER SEQUENCE



LEGEND

□	SINGLE ENTRY PHASE
□	DUAL ENTRY PHASE
□	OVERLAP
□	PEDESTRIAN PHASE
*	NUMBER REFERS TO ASSOCIATED PHASE.

PHASE DESIGNATION DIAGRAM

I.D.O.T. TRAFFIC SIGNAL INSTALLATION ELECTRICAL SERVICE REQUIREMENTS					TOTAL WATTAGE
TYPE	NO. OF LAMPS	INCAND	LED	% OPERATIONS	
SIGNAL (RED)	12	135	17	0.50	102
(YELLOW)	12	135	25	0.25	75
(GREEN)	12	135	15	0.25	45
ARROW		135	12	0.10	
PED. SIGNAL	8	90	25	1.00	200
CONTROLLER	1	100	100	1.00	100
ILLUM. SIGN		84		0.05	
FLASHER				0.50	
TOTAL =					522

ENERGY COSTS TO: VILLAGE OF MAYWOOD
 40 E. MADISON ST.
 MAYWOOD, ILLINOIS 60153
 (708) 344-1200

ENERGY SUPPLY - CONTACT: MICHAEL BELL
 PHONE: (708) 410-5314
 COMPANY: COMED

FOUNDATION (DEPTH)	FT. (m)	CABLE SLACK	FT. (m)	VERTICAL	FT. (m)
TYPE A - POST	4 (1.2)	HANDHOLE	6.5 (2.0)	ALL FOUNDATIONS	3.5 (1.1)
C - CONTROLLER	4 (1.2)	DOUBLE HANDHOLE	13 (4.0)	MAST ARM (L) POLE	20'±L-2' =
D - CONTROLLER	4 (1.2)	SIGNAL POST	2 (1.0)	(6.1+L-1.0) =	
E - M ARM POLE		CONTROLLER CAB.	1 (0.5)	BRACKET MOUNTED	13 (4.0)
24" (600mm)	10 (3.0)	FIBER OPTIC	13 (4.0)	PED. PUSHBUTTON	4 (1.2)
30" (750mm)	15 (4.6)	ELECTRIC SERVICE	1 (0.5)	ELECTRIC SERVICE	13.5 (4.1)
36" (900mm)	15 (4.6)	GROUND CABLE	1 (0.5)	SERVICE TO GROUND	13.5 (4.1)
		POST MOUNTED	6 (1.8)		

HANCOCK ENGINEERING
 Civil Engineers
 Municipal Consultants
 Established 1911

USER NAME -	DESIGNED - DAP	REVISED -
PLOT SCALE -	DRAWN - DAP	REVISED -
PLOT DATE -	CHECKED - JAM	REVISED -
	DATE - 11-30-09	REVISED -

STATE OF ILLINOIS DEPARTMENT OF TRANSPORTATION

CABLE PLAN, PHASE DESIGNATION DIAGRAM AND SCHEDULE OF QUANTITIES
 19th AVE & ST. CHARLES RD, MAYWOOD, IL

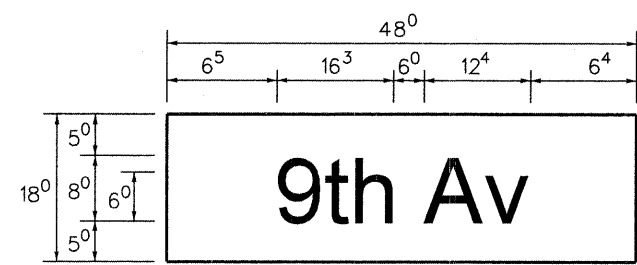
F.A.U. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
1397	09-00129-00-PV	COOK	103	84
CONTRACT NO. 63428				

PREPARED BY:
METRO TRANSPORTATION GROUP, INC.
 TRAFFIC ENGINEERING, TRANSPORTATION PLANNING,
 TRANSPORTATION ENGINEERING, SIGNAL SYSTEMS/DESIGN
 3100 W. HIGGINS ROAD, HOFFMAN ESTATES, IL 60169
 PH# 630 213-1000 FAX# 630 213-3227

Drawing File: E:\eg\proj\1397\1397-00129-00-PV.dwg, User: jmm, Date: 11/30/09, Plot Date: 11/30/09, Plot Scale: 1/8"=1'-0"

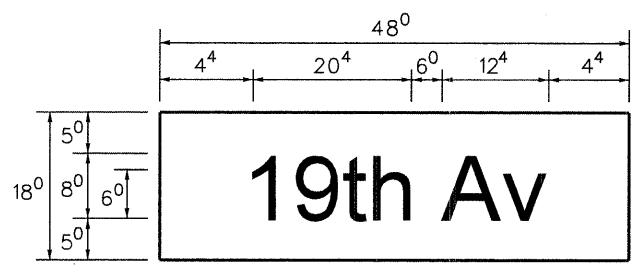
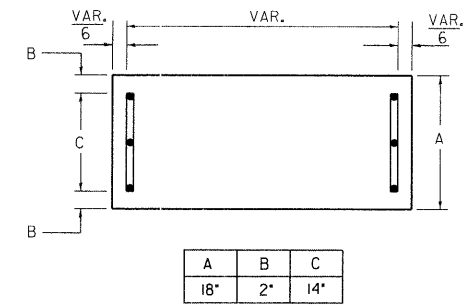
EXAMPLE, 2 ³ DENOTES $\frac{3}{8}$

PANEL SIGN DESIGN TYPE 1



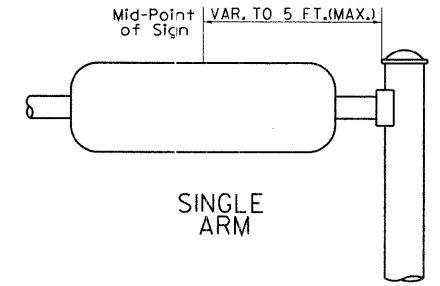
Sq. Ft. each
6.0 Sq. Ft. each
2 Required
Design Series D

SUPPORTING CHANNELS

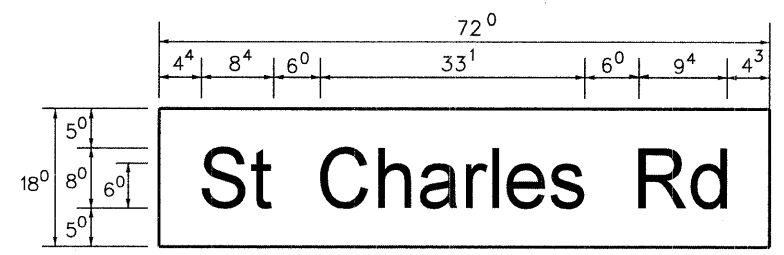


Sq. Ft. each
6 Sq. Ft. each
2 Required
Design Series D

A	B	C
18"	2"	14"

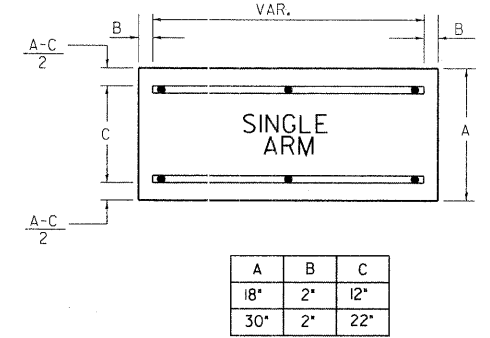


SINGLE ARM



Sq. Ft. each
9.0 Sq. Ft. each
4 Required
Design Series C

SUPPORTING CHANNELS



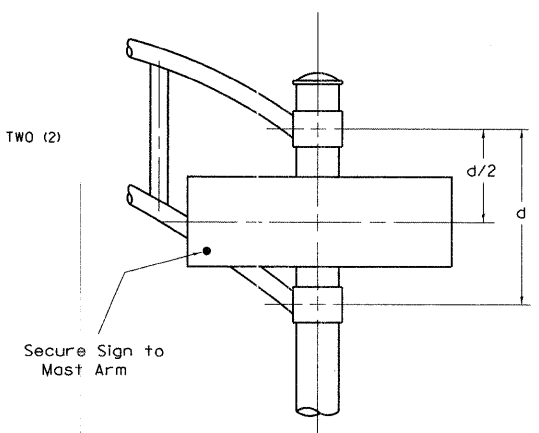
A	B	C
18"	2"	12"
30"	2"	22"

NOTE: SIGN DIMENSIONS ARE IN ENGLISH UNITS

PANEL SIGN DESIGN TYPE 2

GENERAL NOTES

- WHERE MAST ARM MOUNTED STREET NAME SIGNS ARE SPECIFIED, THE MAST ARM ASSEMBLY AND POLES SHALL BE DESIGNED TO SUPPORT THE LOADINGS CALLED FOR ON STANDARDS 834001, 834006 AND 834011, AS APPLICABLE, PLUS TWO (2) SIGN PANELS 2'-6" x 6'-0" MOUNTED AS SHOWN. THE DESIGN SHALL BE IN ACCORDANCE WITH THE REQUIREMENTS OF THE CURRENT STANDARD SPECIFICATIONS FOR STRUCTURAL SUPPORTS FOR HIGHWAY SIGNS, LUMINAIRES, AND TRAFFIC SIGNALS AS PUBLISHED BY THE AMERICAN ASSOCIATION OF STATE HIGHWAY AND TRANSPORTATION OFFICIALS FOR 80 M.P.H. WIND VELOCITY.
 - ALL SIGNS SHALL HAVE A WHITE REFLECTORIZED LEGEND AND BORDER ON A GREEN REFLECTORIZED BACKGROUND, TYPE A SHEETING.
 - THE SIGN LENGTH SHOULD BE INCREASED IN 6-INCH INCREMENTS, BUT THE OVERALL LENGTH SHOULD NOT EXCEED 6'-0".
 - ALL BORDERS SHALL BE 3/4" WIDE AND CORNER RADIUS SHALL BE 2-1/4".
 - SIGNFIX ALUMINUM CHANNEL FRAMING SYSTEM SHALL BE USED FOR ALL SIGNS ATTACHED TO SIGNAL POLES AND POSTS. LOCAL SUPPLIERS OF THE SIGNFIX ALUMINUM CHANNEL FRAMING SYSTEM ARE:
 - * A.K.T. CORPORATION SCHAUMBURG, IL
 - * TUCKER COMPANY, INC. WAUWATOSA, WI
 - * AMERICAN FABRICATION CO. CHICAGO HEIGHTS, IL
 - * WESTERN TRAFFIC CONTROL INC. CICERO, IL
- PARTS LISTING:
SIGN CHANNEL PART #HPN053 (MED. CHANNEL)
SIGN SCREWS 1/4" x 14 x 1" H.W.H. #3
SELF TAPPING WITH NEOPRENE WASHER
BRACKETS PART #HPN034 (UNIVERSAL)
CHANNEL CLAMPS WITH STAINLESS STEEL STRAPPING
- OTHER BRANDS OF MOUNTING HARDWARE ARE ACCEPTABLE, BASED UPON THE DEPARTMENT'S APPROVAL AND COMPATIBILITY WITH THE CHANNEL/BACKET OF THE ABOVE PRODUCT.



DUAL ARM

SIGNFIX ALUMINUM CHANNEL FRAMING SYSTEM
Should be used. See Note #5.

Upper Case To Lower Case
Spacing Chart 8-6 Inch Series 'C & D'

FIRST LETTER	SECOND LETTER															
	acde		bhikl		fw		j		st		vy		x		z	
	C	D	C	D	C	D	C	D	C	D	C	D	C	D	C	D
A W X	12	14	14	15	12	14	06	10	11	14	06	10	11	12	12	14
B	14	15	20	21	14	15	11	12	14	15	12	14	12	14	16	17
C E G	14	15	20	21	12	14	06	10	12	14	12	14	14	15	14	15
D O Q R	14	15	20	21	14	15	06	10	12	14	12	14	14	15	14	15
F	05	06	14	15	06	10	05	06	06	10	06	10	06	10	11	12
H I M N	20	21	22	24	20	21	14	15	16	17	16	17	20	21	20	21
J U	20	21	20	21	16	17	14	15	16	17	16	17	16	17	20	21
K L	11	12	16	17	11	12	05	06	11	12	11	12	11	12	12	14
P	12	14	14	15	12	14	05	06	11	12	11	12	12	14	12	14
S	12	14	16	17	12	14	06	10	12	14	12	14	12	14	12	14
T	11	12	16	17	06	10	06	10	11	12	11	12	11	12	12	14
V	06	10	14	15	11	12	06	10	12	14	12	14	12	14	12	14
Y	05	06	14	15	06	10	05	06	05	07	05	06	06	10	11	12
Z	16	17	22	24	16	17	12	14	16	17	16	17	16	17	20	21

Lower Case To Lower Case
Spacing Chart 6 Inch Series 'C & D'

FIRST LETTER	SECOND LETTER															
	acde		bhikl		fw		j		st		vy		x		z	
	C	D	C	D	C	D	C	D	C	D	C	D	C	D	C	D
a d h g i j	16	17	22	24	16	17	12	14	14	15	14	15	16	17	16	17
l m n q u																
b f k o p s	12	14	16	17	11	12	05	06	11	12	11	12	12	14	12	14
c e	12	14	16	17	12	14	06	10	12	14	12	14	12	14	12	14
r	06	10	12	14	06	10	03	03	05	06	05	06	06	10	06	10
t z	12	14	16	17	12	14	06	10	11	12	11	12	12	14	12	14
v y	11	12	14	15	11	12	05	06	06	10	06	10	11	12	11	12
w	11	12	14	15	11	12	05	06	11	12	11	12	11	12	12	14
x	12	14	16	17	11	12	05	06	11	12	11	12	11	12	12	14

Number To Number
Spacing Chart 8 Inch Series 'C & D'

FIRST NUMBER	SECOND NUMBER																			
	0		1		2		3		4		5		6		7		8		9	
	C	D	C	D	C	D	C	D	C	D	C	D	C	D	C	D	C	D	C	D
0 9	16	17	16	17	14	15	12	14	14	15	14	15	16	17	12	14	16	17	16	17
1	20	21	20	21	20	21	16	17	14	15	20	21	20	21	14	15	20	21	20	21
2 3 4	14	15	14	15	14	15	12	14	12	14	14	15	14	15	11	12	16	17	14	15
5	14	15	14	15	14	15	11	12	11	12	14	15	14	15	11	12	14	15	14	15
6	16	17	14	15	14	15	12	14	14	15	14	15	11	12	14	15	14	15	14	15
7	12	14	12	14	14	15	12	14	15	12	14	14	15	11	12	14	15	12	14	14
8	16	17	16	17	14	15	12	14	14	15	16	17	12	14	16	17	14	15	16	17

LETTERS	UPPER AND LOWER CASE LETTER WIDTHS							
	6 INCH UPPER CASE LETTERS		8 INCH UPPER CASE LETTERS		LETTERS	6 INCH LOWER CASE LETTERS		
	C	D	C	D		C	D	
A	3 ⁶	5 ⁰	5 ⁰	6 ⁵	a	3 ⁵	4 ²	
B	3 ²	4 ⁰	4 ³	5 ³	b	3 ⁵	4 ²	
C	3 ²	4 ⁰	4 ³	5 ³	c	3 ⁵	4 ¹	
D	3 ²	4 ⁰	4 ³	5 ³	d	3 ⁵	4 ²	
E	3 ⁰	3 ⁵	4 ⁰	4 ⁷	e	3 ⁵	4 ²	
F	3 ⁰	3 ⁵	4 ⁰	4 ⁷	f	2 ³	2 ⁶	
G	3 ²	4 ⁰	4 ³	5 ³	g	3 ⁵	4 ²	
H	3 ²	4 ⁰	4 ³	5 ³	h	3 ⁵	4 ²	
I	0 ⁷	0 ⁷	1 ¹	1 ²	i	1 ¹	1 ¹	
J	3 ⁰	3 ⁶	4 ⁰	5 ⁰	j	2 ⁰	2 ²	
K	3 ²	4 ¹	4 ³	5 ⁴	k	3 ⁵	4 ²	
L	3 ⁰	3 ⁵	4 ⁰	4 ⁷	l	1 ¹	1 ¹	
M	3 ⁷	4 ⁵	5 ¹	6 ¹	m	6 ⁰	7 ⁰	
N	3 ²	4 ⁰	4 ³	5 ³	n	3 ⁵	4 ²	
O	3 ⁴	4 ²	4 ⁵	5 ⁵	o	3 ⁶	4 ³	
P	3 ²	4 ⁰	4 ³	5 ³	p	3 ⁵	4 ²	
Q	3 ⁴	4 ²	4 ⁵	5 ⁵	q	3 ⁵	4 ²	
R	3 ²	4 ⁰	4 ³	5 ³	r	2 ⁶	3 ²	
S	3 ²	4 ⁰	4 ³	5 ³	s	3 ⁶	4 ²	
T	3 ⁰	3 ⁵	4 ⁰	4 ⁷	t	2 ⁷	3 ²	
U	3 ²	4 ⁰	4 ³	5 ³	u	3 ⁵	4 ²	
V	3 ⁵	4 ⁴	4 ⁷	6 ⁰	v	4 ²	4 ⁷	
W	4 ⁴	5 ²	6 ⁰	7 ⁰	w	5 ⁵	6 ⁴	
X	3 ⁴	4 ⁰	4 ⁵	5 ³	x	4 ⁴	5 ¹	
Y	3 ⁶	5 ⁰	5 ⁰	6 ⁶	y	4 ⁶	5 ³	
Z	3 ²	4 ⁰	4 ³	5 ³	z	3 ⁶	4 ³	

NUMBER	6 INCH SERIES		8 INCH SERIES	
	C	D	C	D
1	1 ²	1 ⁴	1 ⁵	2 ⁰
2	3 ²	4 ⁰	4 ³	5 ³
3	3 ²	4 ⁰	4 ³	5 ³
4	3 ⁵	4 ³	4 ⁷	5 ⁷
5	3 ²	4 ⁰	4 ³	5 ³
6	3 ²	4 ⁰	4 ³	5 ³
7	3 ²	4 ⁰	4 ³	5 ³
8	3 ²	4 ⁰	4 ³	5 ³
9	3 ²	4 ⁰	4 ³	5 ³
0	3 ⁴	4 ²	4 ⁵	5 ⁵

REVISIONS	
NAME	DATE
D.A.Z./D.A.G.	11/90
	6/98
CADD	10/00

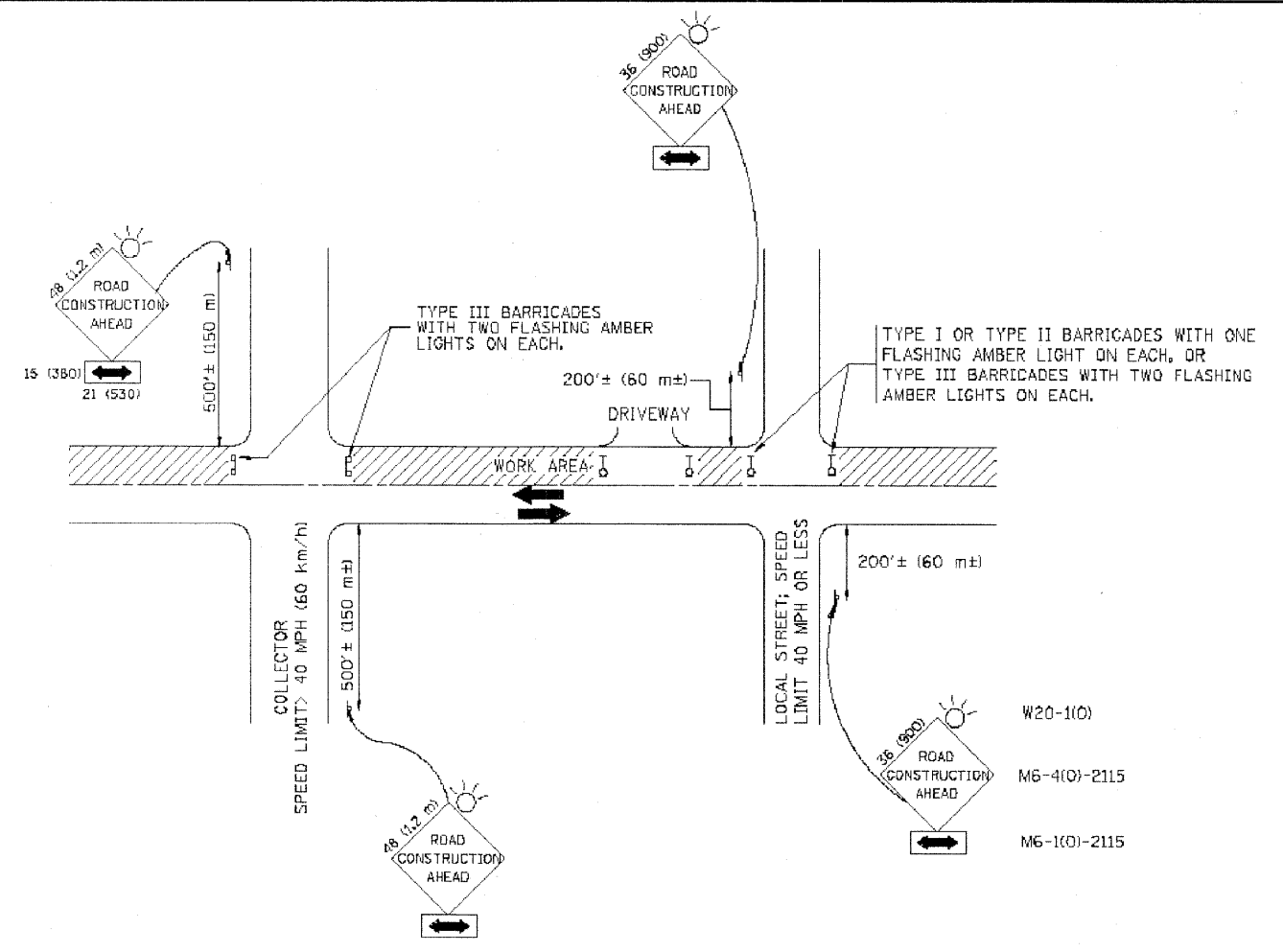
Illinois Department of Transportation
DISTRICT I

MAST ARM MOUNTED STREET NAME SIGNS

SCALE: NONE
DATE:

DRAWN BY: RDB
DESIGNED BY: JHE
CHECKED BY: DAD

Drawing file: W:\Projects\56508290 - St. Charles Rd\Be_IDOT_MARINCS.dgn Dec 01, 2009 - 9:56am



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

NOTES:

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

USE APPLICABLE PORTIONS OF THE TYPICAL APPLICATION OF TRAFFIC CONTROL DEVICES (STD. 701501, STD. T01605 OR THE APPROPRIATE STANDARD). THE SPACING OF SIGNS AND BARRICADES SHALL BE ADJUSTED FOR FIELD CONDITIONS AS DIRECTED BY THE ENGINEER. THE DIRECTIONAL ARROW SHALL BE COVERED OR REMOVED WHEN NO LONGER CONSISTENT WITH THE SIDE ROAD LANE CLOSURE.
- C. ADVANCE WARNING SIGNS ARE TO BE OMITTED ON DRIVEWAY UNLESS OTHERWISE NOTED.
- D. THE TRAFFIC CONTROL AND PROTECTION FOR SIDE ROADS, INTERSECTIONS, AND DRIVEWAYS SHALL BE INCIDENTAL TO THE COST OF SPECIFIED TRAFFIC CONTROL STANDARDS OR ITEMS.

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

FILE NAME = W:\databases\22x54\1018.dgn	USER NAME = gaglianob	DESIGNED - LHA	REVISED - J. OBERLE 10-18-95
		DRAWN -	REVISED - A. HOUSEH 03-06-96
	PLOT SCALE = 60:200 1/2 IN.	CHECKED -	REVISED - A. HOUSEH 10-15-96
	PLOT DATE = 1/4/2008	DATE - 06-89	REVISED - T. RAMMACHER 01-06-00

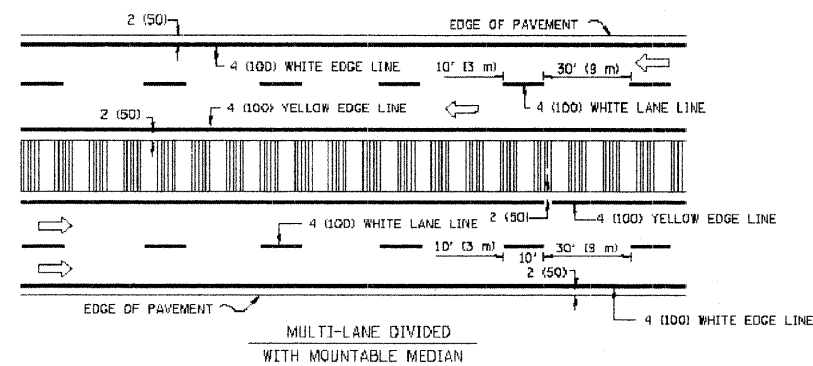
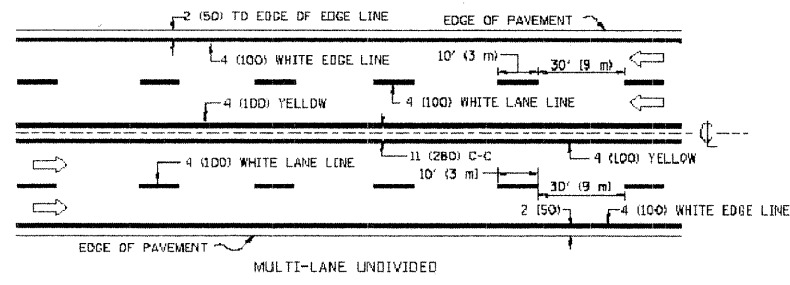
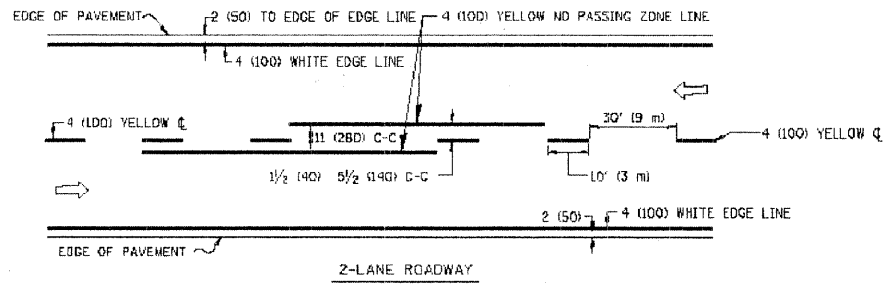
STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

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

SCALE: NONE SHEET NO. 1 OF 1 SHEETS STA. TO STA.

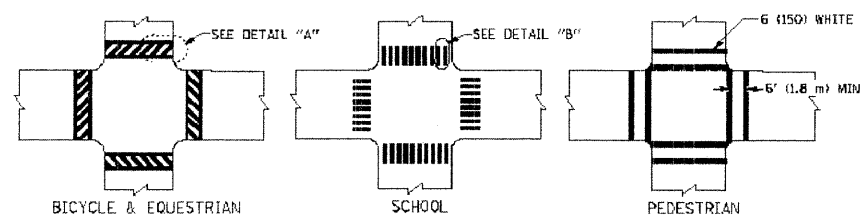
F.A. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
1397	09-00129-00-PV	COOK	103	86
TC-10			CONTRACT NO. 63428	
FED. ROAD DIST. NO. 1 ILLINOIS FED. AID PROJECT M-9003 (267)				

E.H.E. PROJECT NO. 565-08-29001

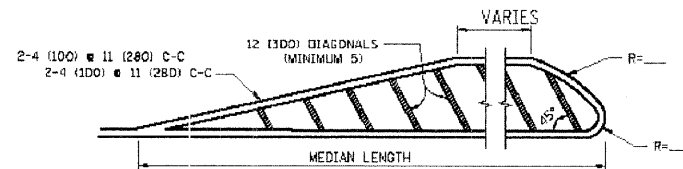
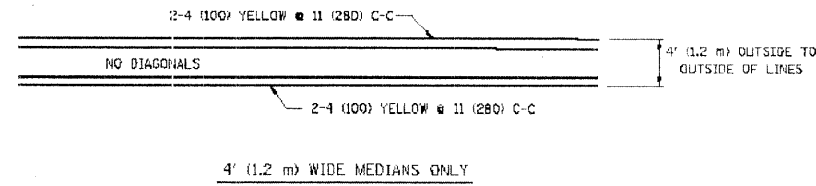


NOTE: MEDIANS WITH BARRIER CURBS DO NOT REQUIRE AN EDGE LINE

TYPICAL LANE AND EDGE LINE MARKING

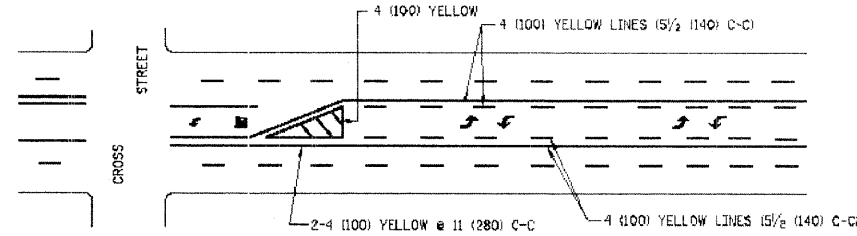


TYPICAL CROSSWALK MARKING

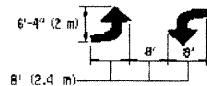


FOR MEDIAN LENGTHS WHERE DIAGONAL SPACING CANNOT BE ATTAINED, USE 5 (FIVE) EQUALLY SPACED DIAGONAL LINES.
 DIAGONAL LINE SPACING: 50' (15 m) C-C (LESS THAN 30MPH (50 km/h))
 75' (25 m) C-C 30MPH (50 km/h) TO 45MPH (70 km/h)
 150' (45 m) C-C (MORE THAN 45MPH (70 km/h))

MEDIANS OVER 4' (1.2 m) WIDE

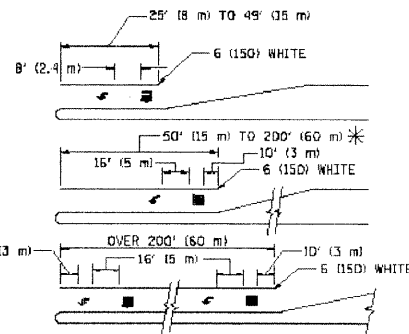


A MINIMUM OF TWO PAIRS OF TURN ARROWS SHALL BE USED, WHITE IN COLOR. ADDITIONAL PAIRS SHALL BE PLACED AT 200' (60 m) TO 300' (90 m) INTERVALS.



MEDIAN WITH TWO-WAY LEFT TURN LANE

TYPICAL PAINTED MEDIAN MARKING

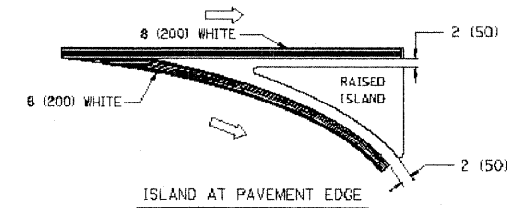
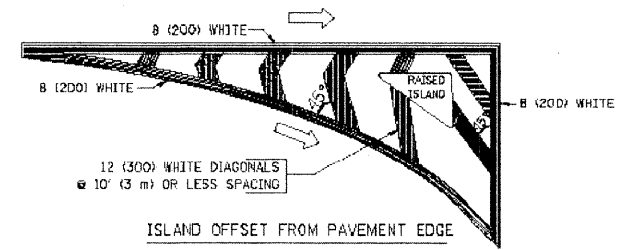


FULL SIZE LETTERS 8" (2.4 m) AND ARROWS SHALL BE USED.
 AREA = 15.6 SQ. FT. (1.5 m²) AREA = 20.8 SQ. FT. (1.9 m²)

* TURN LANES IN EXCESS OF 400' (120 m) IN LENGTH MAY HAVE AN ADDITIONAL SET OF ARROW - "ONLY" INSTALLED MIDWAY BETWEEN THE OTHER TWO SETS OF ARROW - "ONLY".

TYPICAL LEFT (OR RIGHT) TURN LANE

TYPICAL TURN LANE MARKING



TYPICAL ISLAND MARKING

TYPE OF MARKING	WIDTH OF LINE	PATTERN	COLOR	SPACING / REMARKS
CENTERLINE ON 2 LANE PAVEMENT	4 (100)	SKIP-DASH	YELLOW	10' (3 m) LINE WITH 30' (9 m) SPACE
CENTERLINE ON MULTI-LANE UNDIVIDED PAVEMENT	2 @ 4 (100)	SOLID	YELLOW	11 (280) C-C
NO PASSING ZONE LINES: FOR ONE DIRECTION FOR BOTH DIRECTIONS	4 (100) 2 @ 4 (100)	SOLID SOLID	YELLOW YELLOW	5/2 (140) C-C FROM SKIP-DASH CENTERLINE 11 (280) C-C OMIT SKIP-DASH CENTERLINE BETWEEN
LANE LINES	4 (100) 5 (125) ON FREEWAYS	SKIP-DASH SKIP-DASH	WHITE WHITE	10' (3 m) LINE WITH 30' (9 m) SPACE
DOTTED LINES (EXTENSIONS OF CENTER, LANE OR TURN LANE MARKINGS)	SAME AS LINE BEING EXTENDED	SKIP-DASH	SAME AS LINE BEING EXTENDED	2' (600) LINE WITH 6' (1.8 m) SPACE
EDGE LINES	4 (100)	SOLID	YELLOW-LEFT WHITE-RIGHT	OUTLINE MOUNTABLE MEDIANS IN YELLOW; EDGE LINES ARE NOT USED NEXT TO BARRIER CURB
TURN LANE MARKINGS	6 (150) LINE; FULL SIZE LETTERS & SYMBOLS (8" (2.4m))	SOLID	WHITE	SEE TYPICAL TURN LANE MARKING DETAIL
TWO WAY LEFT TURN MARKING	2 @ 4 (100) EACH DIRECTION 8' (2.4m) LEFT ARROW	SKIP-DASH AND SOLID IN PAIRS	YELLOW WHITE	10' (3 m) LINE WITH 30' (9 m) SPACE FOR SKIP-DASH; 5/2 (140) C-C BETWEEN SOLID LINE AND SKIP-DASH LINE SEE TYPICAL TWO-WAY LEFT TURN MARKING DETAIL
CROSSWALK LINES (PEDESTRIAN) A. DIAGONALS (BIKE & EQUESTRIAN) B. LONGITUDINAL BARS (SCHOOL)	2 @ 6 (150) 12 (300) @ 45° 12 (300) @ 90°	SOLID SOLID SOLID	WHITE WHITE WHITE	NOT LESS THAN 6' (1.8 m) APART 2' (600) APART 2' (600) APART SEE TYPICAL CROSSWALK MARKING DETAILS.
STOP LINES	24 (600)	SOLID	WHITE	PLACE 4' (1.2 m) IN ADVANCE OF AND PARALLEL TO CROSSWALK, IF PRESENT OTHERWISE, PLACE AT DESIRED STOPPING POINT, PARALLEL TO CROSSROAD CENTERLINE, WHERE POSSIBLE
PAINTED MEDIANS	2 @ 4 (100) WITH 12 (300) DIAGONALS @ 45° NO DIAGONALS USED FOR 4' (1.2 m) WIDE MEDIANS	SOLID	YELLOW: TWO WAY TRAFFIC WHITE: ONE WAY TRAFFIC	11 (280) C-C FOR THE DOUBLE LINE SEE TYPICAL PAINTED MEDIAN MARKING.
CDRE MARKING AND CHANNELIZING LINES	8 (200) WITH 12 (300) DIAGONALS @ 45°	SOLID	WHITE	DIAGONALS: 15' (4.5 m) C-C (LESS THAN 30MPH (50 km/h)) 20' (6 m) C-C 30MPH (50 km/h) TO 45MPH (70 km/h) 30' (9 m) C-C (OVER 45MPH (70 km/h))
RAILROAD CROSSING	24 (600) TRANSVERSE LINES; "RR" 15 6" (1.8 m) LETTERS; 16 (400) LINE FOR "X"	SOLID	WHITE	SEE STATE STANDARD 78000L AREA OF: "R"=3.6 SQ. FT. (0.33 m ²) EACH "X"=54.0 SQ. FT. (5.0 m ²)
SHOULDER DIAGONALS	12 (300) @ 45°	SOLID	WHITE - RIGHT YELLOW - LEFT	50' (15 m) C-C (LESS THAN 30MPH (50 km/h)) 75' (25 m) C-C (30 MPH (50 km/h) TO 45MPH (70 km/h)) 150' (45 m) C-C (OVER 45MPH (70 km/h))

FOR FURTHER DETAILS ON PAVEMENT MARKING REFER TO STANDARD SPECIFICATIONS FOR ROAD AND BRIDGE CONSTRUCTION AND STATE STANDARD 78000L.

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

Drawing file: W:\Projects\56503290 - St. Charles Rd\66_DOT_MARKINGS.dwg Dec 01, 2009 - 9:59am

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STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

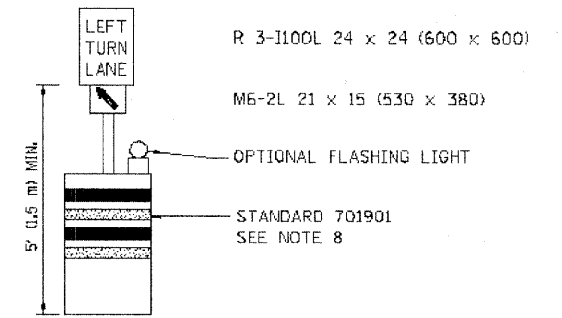
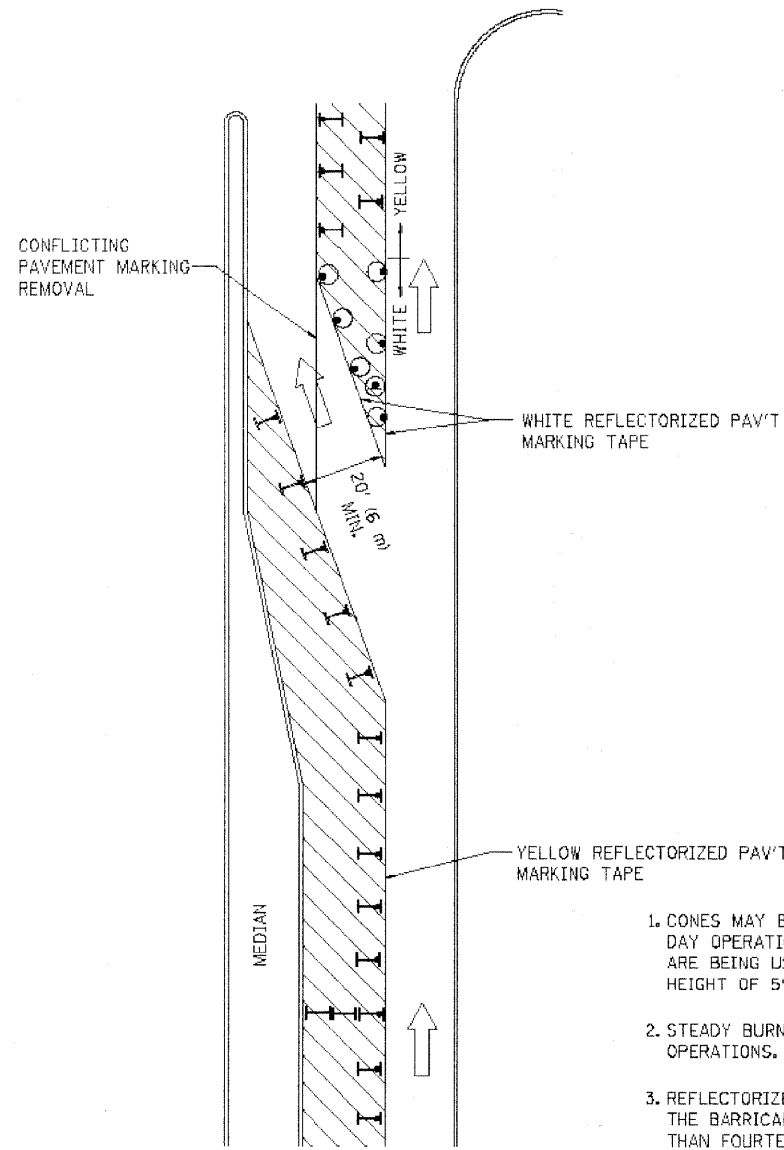
DISTRICT ONE
TYPICAL PAVEMENT MARKINGS

SCALE: NONE SHEET NO. 1 OF 1 SHEETS STA. TO STA.

F.A. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
1397	09-00129-00-PV	COOK	103	87
TC-18		CONTRACT NO. 63428		
FED. ROAD DIST. NO. 1 (ILLINOIS)		FED. AID PROJECT M-9003 (267)		

E.H.E. PROJECT NO. 565-08-29001

Drawing file: W:\Projects\36508290 - St. Charles Rd\66_LDOT_MRWINGS.dgn Dec 01, 2009 - 10:02am

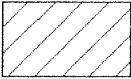







GENERAL NOTES

1. CONES MAY BE SUBSTITUTED FOR BARRICADES OR DRUMS AT HALF THE SPACING DURING DAY OPERATIONS. CONES SHALL BE A MINIMUM OF 28 (710) IN HEIGHT. WHEN CONES ARE BEING USED, THE "LEFT TURN LANE" SIGN MAY BE SKID MOUNTED AT A MINIMUM HEIGHT OF 5' (1.5 m).
2. STEADY BURNING LIGHTS WILL NOT BE REQUIRED ON BARRICADES OR DRUMS FOR DAY OPERATIONS. ALL LIGHTS SHALL BE MONODIRECTIONAL.
3. REFLECTORIZED TEMPORARY PAVEMENT MARKING TAPE SHALL BE PLACED THROUGHOUT THE BARRICADED AREA OF EACH TURN BAY WHERE THE CLOSURE TIME IS GREATER THAN FOURTEEN DAYS.
4. THIS APPLICATION ALSO APPLIES WHEN WORK IS BEING PERFORMED IN THE RIGHT LANE(S) AND THE RIGHT TURN BAY IS TO REMAIN OPEN. UNDER THIS CONDITION, "RIGHT TURN LANE" R3-100 24 x 24 (600 x 600) AND M6-2R 21 x 15 (530 x 380) SHALL BE USED.
5. THESE CONTROLS SHALL SUPPLEMENT MAINLINE TRAFFIC CONTROL FOR LANE CLOSURES.
6. LONGITUDINAL DIMENSIONS MAY BE ADJUSTED TO FIT FIELD CONDITIONS.
7. FORM OPER 725 IS REQUIRED.
8. IF A DRUM OR TYPE II BARRICADE WITH AN ATTACHED SIGN PANEL WHICH MEETS NCHRP 350 REQUIREMENTS IS NOT AVAILABLE, THE SIGNS SHALL BE MOUNTED, ABOVE THE BARRICADES, ON SEPARATE SIGNS SUPPORTS THAT MEET NCHRP 350 REQUIREMENTS.
9. TRAFFIC CONTROL AND PROTECTION AT TURN BAYS (TO REMAIN OPEN TO TRAFFIC) SHALL BE INCLUDED IN THE COST SPECIFIED TRAFFIC CONTROL STANDARDS OR ITEMS.

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

LEGEND

-  WORK AREA
-  LANE OPEN TO TRAFFIC
-  TYPE I OR II BARRICADE WITH STEADY BURN LIGHT
-  DRUM WITH STEADY BURN LIGHT
-  DRUM WITH SIGN (WITH OPTIONAL FLASHING LIGHT) SEE DETAIL
-  TYPE I OR II CHECK BARRICADE WITH FLASHING LIGHT

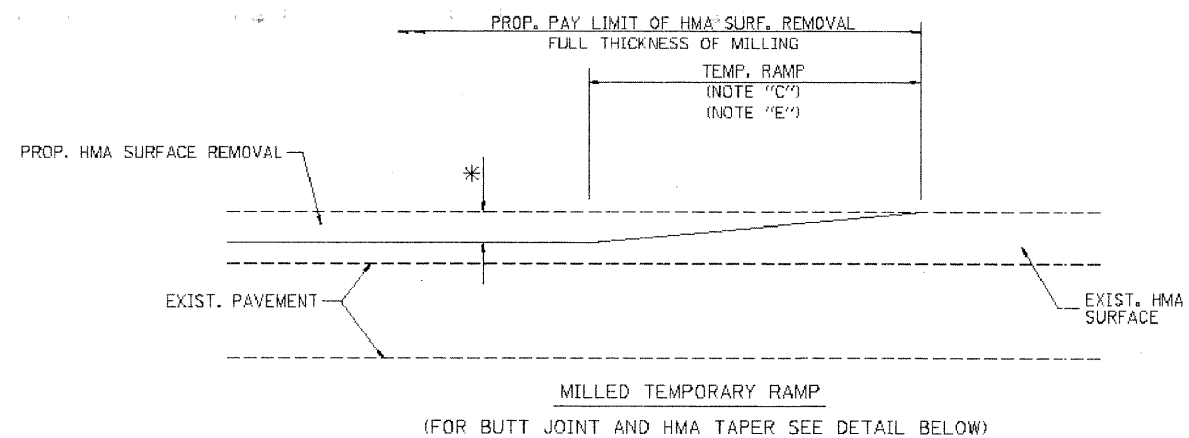
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**STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION**

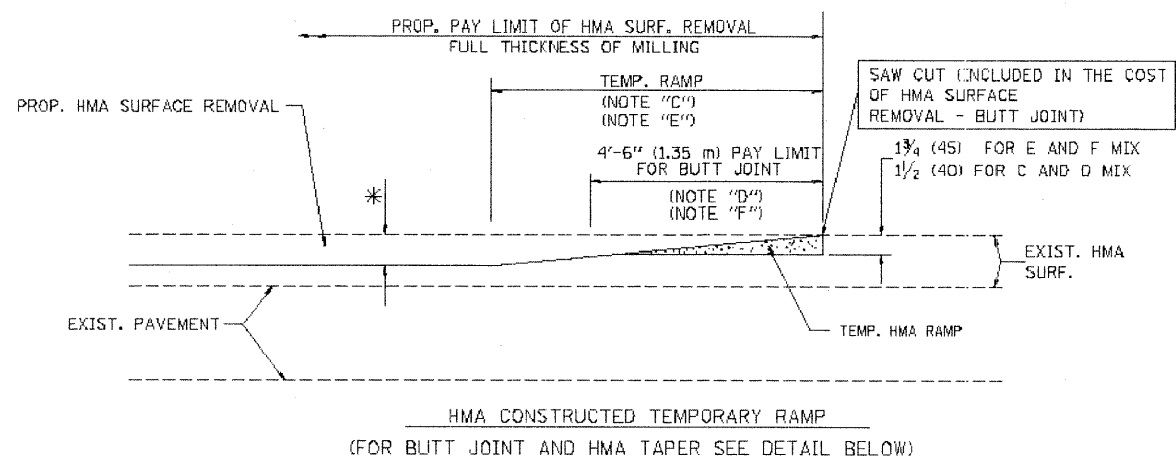
**TRAFFIC CONTROL AND PROTECTION AT TURN BAYS
(TO REMAIN OPEN TO TRAFFIC)**

SCALE: NONE SHEET NO. 1 OF 1 SHEETS STA. TO STA.

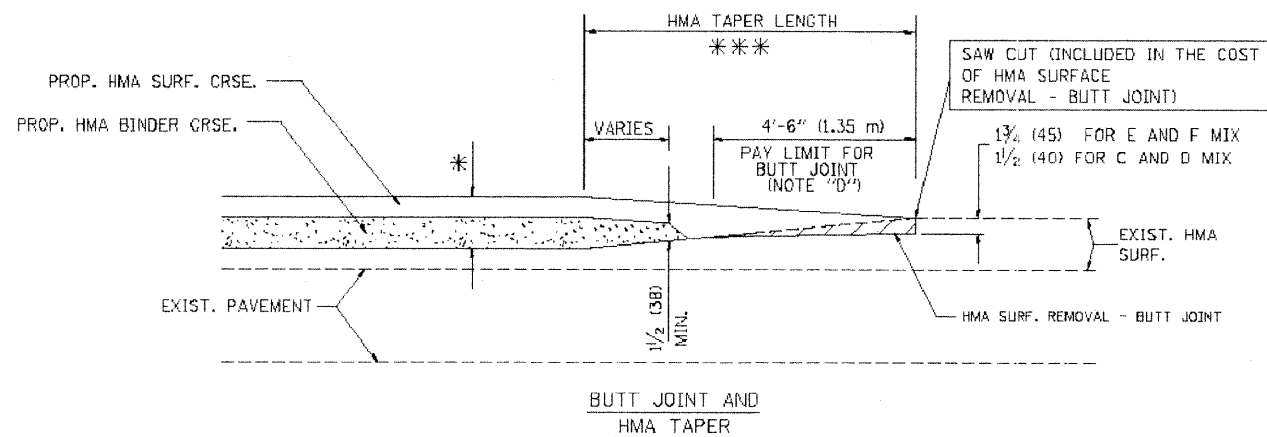
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TC-14		CONTRACT NO. 63428		
FED. ROAD DIST. NO. 1 ILLINOIS		FED. AID PROJECT	M-9003 (267)	



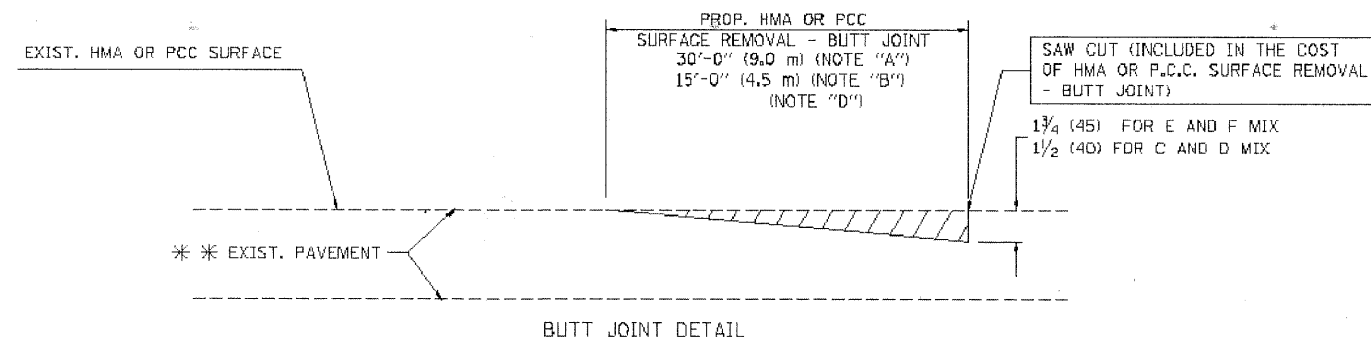
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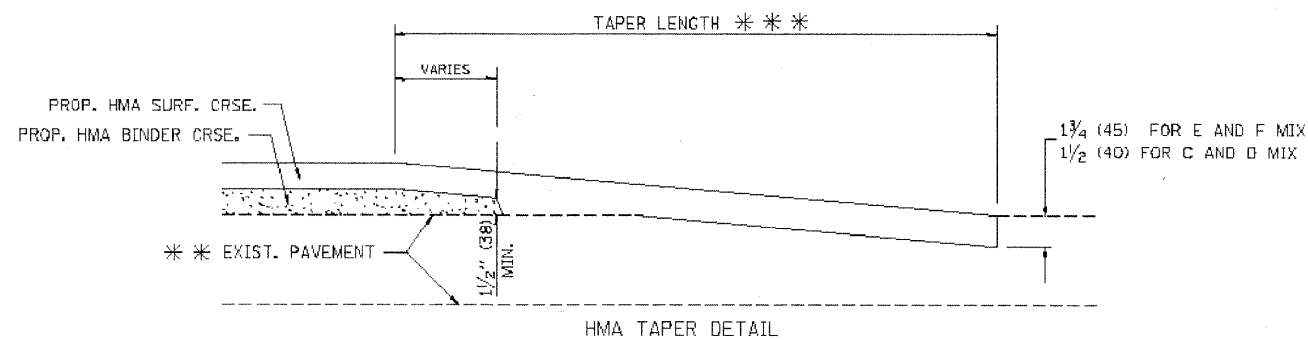
OPTION 2
TYPICAL TEMPORARY RAMP



TYPICAL BUTT JOINT AND HMA TAPER
FOR MILLING AND RESURFACING



BUTT JOINT DETAIL



HMA TAPER DETAIL

TYPICAL BUTT JOINT AND HMA TAPER
FOR RESURFACING ONLY

*** PC CONCRETE, HMA OR HMA RESURFACED PAVEMENT.

NOTES

- A: MAINLINE ROADWAYS AND MAJOR SIDE ROADS.
 - B: MINOR SIDE ROADS.
 - C: THE TEMP. RAMP SHALL BE CONSTRUCTED IMMEDIATELY UPON REMOVAL OF THE EXISTING HMA SURFACE.
 - D: THE BUTT JOINT SHALL BE CONSTRUCTED IMMEDIATELY PRIOR TO PLACING THE PROPOSED HMA COURSES.
 - E: TAPER THE TEMP. RAMP AT A RATE OF 3'-0" (900 mm) PER 1 INCH (25 mm) OF MILLING THICKNESS.
 - F: INSTALLATION AND REMOVAL OF THE 4'-6" (1.35 m) TEMP. RAMP IS INCLUDED IN COST OF HMA SURFACE REMOVAL - BUTT JOINT
 - G: SEE ARTICLE 406.08 AND 406.14 OF THE STANDARD SPECIFICATIONS FOR "HMA AND/OR PCC SURFACE REMOVAL, BUTT JOINT".
- * SEE TYPICAL SECTIONS FOR MILLING THICKNESS.
- *** 20'-0" (6.1 m) PER 1 (25) RESURFACING (NOTE "A")
10'-0" (3.0 m) PER 1 (25) RESURFACING (NOTE "B")

BASIS OF PAYMENT:

THE BUTT JOINT WILL BE PAID FOR AT THE CONTRACT UNIT PRICE PER SQUARE YARD (SQUARE METER) FOR "HOT-MIX ASPHALT SURFACE REMOVAL - BUTT JOINT" OR FOR "PORTLAND CEMENT CONCRETE SURFACE REMOVAL - BUTT JOINT".

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

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W:\dsetatd\22x34\bd92.dgn

USER NAME = geglendert	DESIGNED - M. DE YONG	REVISED - R. SHAH 10-25-94
PLOT SCALE = 88.8888 / 1 IN	CHECKED -	REVISED - A. ABBAS 03-21-97
PLOT DATE = 1/4/2008	DATE - 06-13-90	REVISED - M. GOMEZ 04-06-01
		REVISED - R. BORO 01-01-07

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

BUTT JOINT AND
HMA TAPER DETAILS

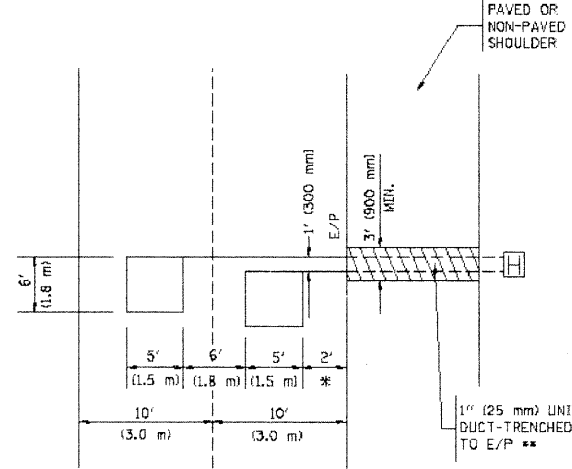
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BD400-05 BD32		CONTRACT NO. 63428		
FED. ROAD DIST. NO. 1 ILLINOIS FED. AID PROJECT M-9003 (267)				

E.H.E. PROJECT NO. 565-08-29001

LOOPS NEXT TO SHOULDERS

PROVIDE A PAVEMENT REPLACEMENT NOTE WHICH SHOULD EQUAL 3' (900 mm) X WIDTH OF PAVED SHOULDER.

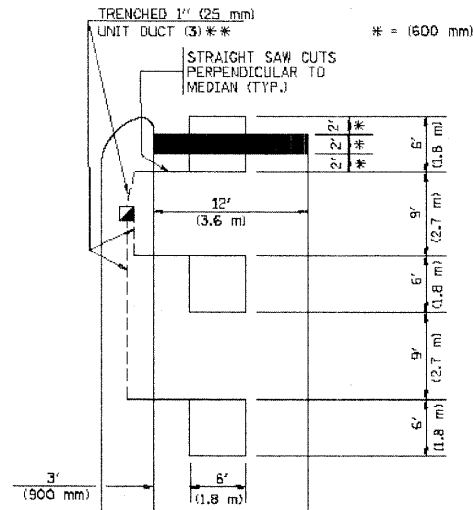


* = (600 mm)

** UNIT DUCT IS TO BE SHOWN ON PLAN SHEETS BUT SHALL NOT BE INCLUDED IN THE PAY ITEMS.

**LEFT TURN LANES WITH MEDIANS
VOLUME DENSITY ("FAR OUT" DETECTION)
ON SAME APPROACH
(PROTECTED / PERMITTED LEFT TURN PHASING)**

HANDHOLE LOCATION MAY VARY DEPENDING ON GEOMETRICS AND DESIGN OF TRAFFIC SIGNALS. HEAVY-DUTY HANDHOLES TO BE USED WHEN THE MEDIAN IS MOUNTABLE. REFER TO STANDARD B1400L TO ENSURE THAT HANDHOLE FITS IN MEDIAN.

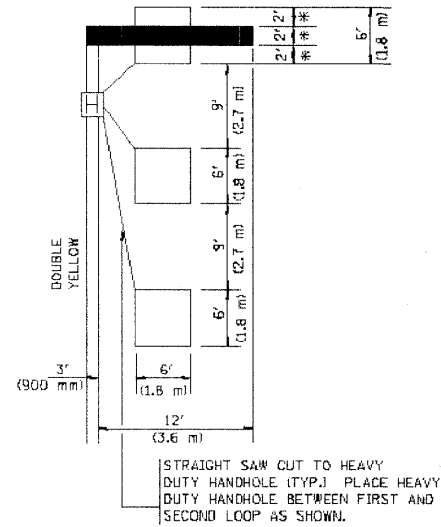


** UNIT DUCT IS TO BE SHOWN ON PLAN SHEETS BUT SHALL NOT BE INCLUDED IN THE PAY ITEMS.

NOTE: DUAL LEFT TURNS NOT SHOWN REFER TO PLAN SHEET FOR DETECTOR LOOP REPLACEMENT

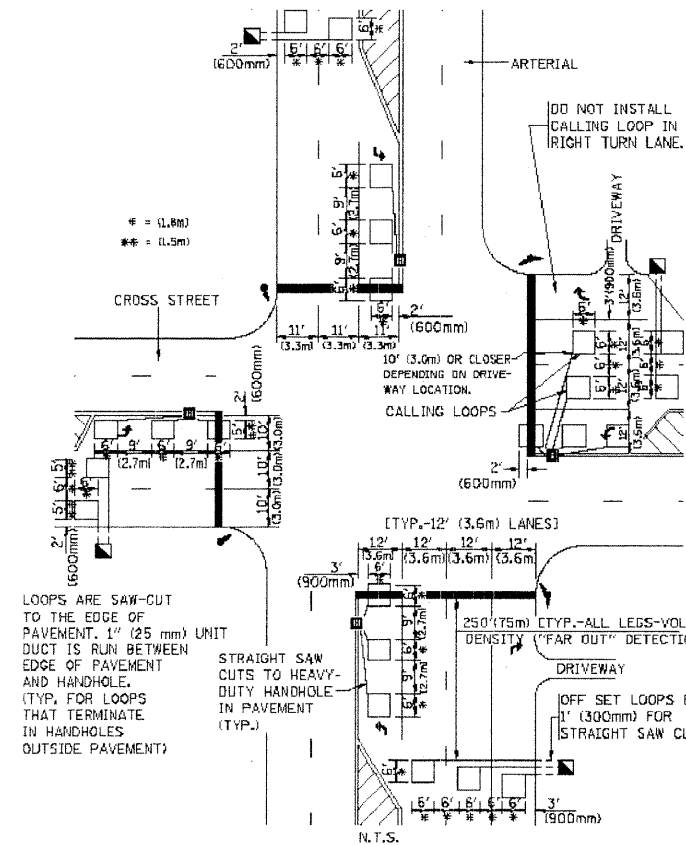
**LEFT TURN LANES WITHOUT MEDIANS
VOLUME DENSITY ("FAR OUT" DETECTION)
ON SAME APPROACH
(PROTECTED / PERMITTED LEFT TURN PHASING)**

* = (600 mm)



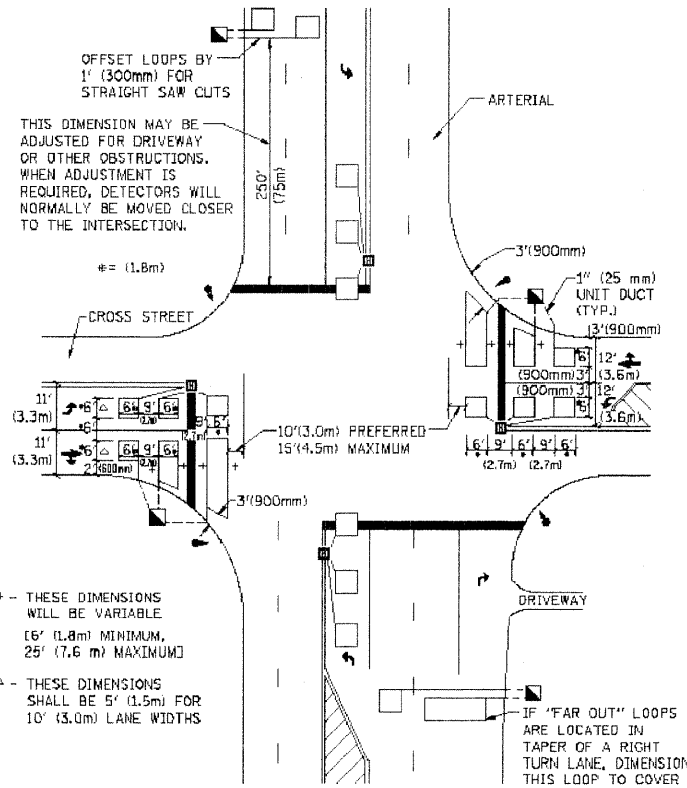
NOTE: DUAL LEFT TURNS NOT SHOWN REFER TO PLAN SHEET FOR DETECTOR LOOP REPLACEMENT

**ARTERIAL-VOLUME DENSITY ("FAR OUT" DETECTION)
CROSS STREET-VOLUME DENSITY ("FAR OUT" DETECTION)**



DETAIL 1
N.T.S.

**ARTERIAL-VOLUME DENSITY ("FAR OUT" DETECTION)
CROSS STREET-NON VOLUME DENSITY ("UPTIGHT" PRESENCE DETECTION)**



DETAIL 2
N.T.S.

NOTES:

VEHICLES LOOP DETECTORS

- * ALL LEAD IN CABLE SHALL BE TWO CONDUCTOR NO. 14 TWISTED, SHIELDED.
- * EACH DETECTOR LOOP SHALL HAVE ITS OWN SAW CUT FROM THE LOOP TO THE EDGE OF PAVEMENT OR TO A HANDHOLE IN THE PAVEMENT.
- * EACH DETECTOR LOOP SHALL HAVE ITS OWN ONE INCH (25 mm) UNIT DUCT BETWEEN THE EDGE OF PAVEMENT AND THE FIRST HANDHOLE OR JUNCTION BOX. EACH UNIT DUCT RUN SHALL BE SHOWN ON THE PLANS BY THE DESIGNER, BUT SHALL NOT BE PAID FOR SEPARATELY. THIS ITEM IS INCIDENTAL TO THE PAY ITEM FOR DETECTOR LOOPS.
- * ONE DIMENSION OF ALL DETECTOR LOOPS SHALL BE SIX FEET (1.8 m)
- * EACH LANE OF NON-LOCKING, PRESENCE DETECTION AND EACH LANE OF A DOUBLE LEFT TURN LANE REQUIRES A SEPARATE INDUCTIVE LOOP DETECTOR AND LEAD IN CABLE.
- * WHEN NON-LOCKING, PRESENCE DETECTION IS USED, MORE THAN ONE LOOP PER LANE IS REQUIRED BEHIND THE STOP BAR (i.e. 1-1/2, 1-3/4, 2).
- * WHEN SYSTEM LOOPS ARE REQUIRED ON AN APPROACH OF AN INTERSECTION, THE LOOPS USED FOR VOLUME DENSITY AND INTERSECTION TIMING SHALL ALSO BE USED AS SYSTEM DETECTORS. EACH ONE OF THESE TYPE OF LOOPS REQUIRES A SEPARATE TWO CONDUCTOR NO. 14 TWISTED SHIELDED CABLE AND A SEPARATE INDUCTIVE LOOP DETECTOR WHEN NEW CONTROLLERS ARE UTILIZED. THE DESIGNER SHALL LABEL THESE TYPES OF LOOPS AS "INTERSECTION AND SAMPLING (SYSTEM) DETECTORS" ON THE SIGNAL LAYOUT, THE INTERCONNECT PLAN AND THE SYSTEM CABLE PLAN. WHEN AN EXISTING CONTROLLER IS UTILIZED FOR THIS TYPE OF DETECTION, THE PAY ITEM "INDUCTIVE LOOP DETECTOR WITH SYSTEM OUTPUT" SHOULD BE USED.

PLACEMENT OF DETECTORS

THE FOLLOWING FIGURES REPRESENT THE MOST COMMON DETECTOR LOOP LOCATIONS AND SIZES. ADJUSTMENTS WILL BE NECESSARY FOR SPECIFIC GEOMETRIC CONSIDERATIONS.

LOCATIONS AND DIMENSIONS OF DETECTOR LOOPS ARE REQUIRED ON ALL SIGNAL LAYOUT PLAN SHEETS.

"FAR OUT" DETECTION REFERS TO LOCKING, PRESENCE TYPE DETECTION LOCATED IN THRU LANES, RIGHT TURN LANES, AND RIGHT TURN LANE TAPER AREAS (IF APPLICABLE), USUALLY 250' (75 m) IN ADVANCE OF STOP BARS. "UPTIGHT" DETECTION REFERS TO NON-LOCKING PRESENCE TYPE DETECTION LOCATED IN ALL LANES AND 10'-15' (3.0 m-4.5 m) BEHIND THE CROSSING STREET'S EDGE OF PAVEMENT EXTENDED.

NOTE:

ALL DETAILS AND NOTES SHOWN ARE FROM THE I.D.O.T. DISTRICT 1 TRAFFIC SIGNAL DESIGN GUIDELINES DATED JANUARY 1995

THIS DRAWING HAS BEEN PREPARED TO ASSIST THE RESIDENT ENGINEER FOR ALL ROADWAY RESURFACING OR S.M.A.R.T. PROJECTS WHERE THE DIMENSIONS ARE NOT SHOWN ON THE PLANS AND THE FINAL LOCATIONS FOR CROSSWALKS OR STOP BARS ARE NOT DETERMINED.

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	DATE -	REVISED -

**STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION**

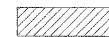
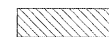
**DISTRICT 1 - DETECTOR LOOP INSTALLATION
DETAILS FOR ROADWAY RESURFACING**

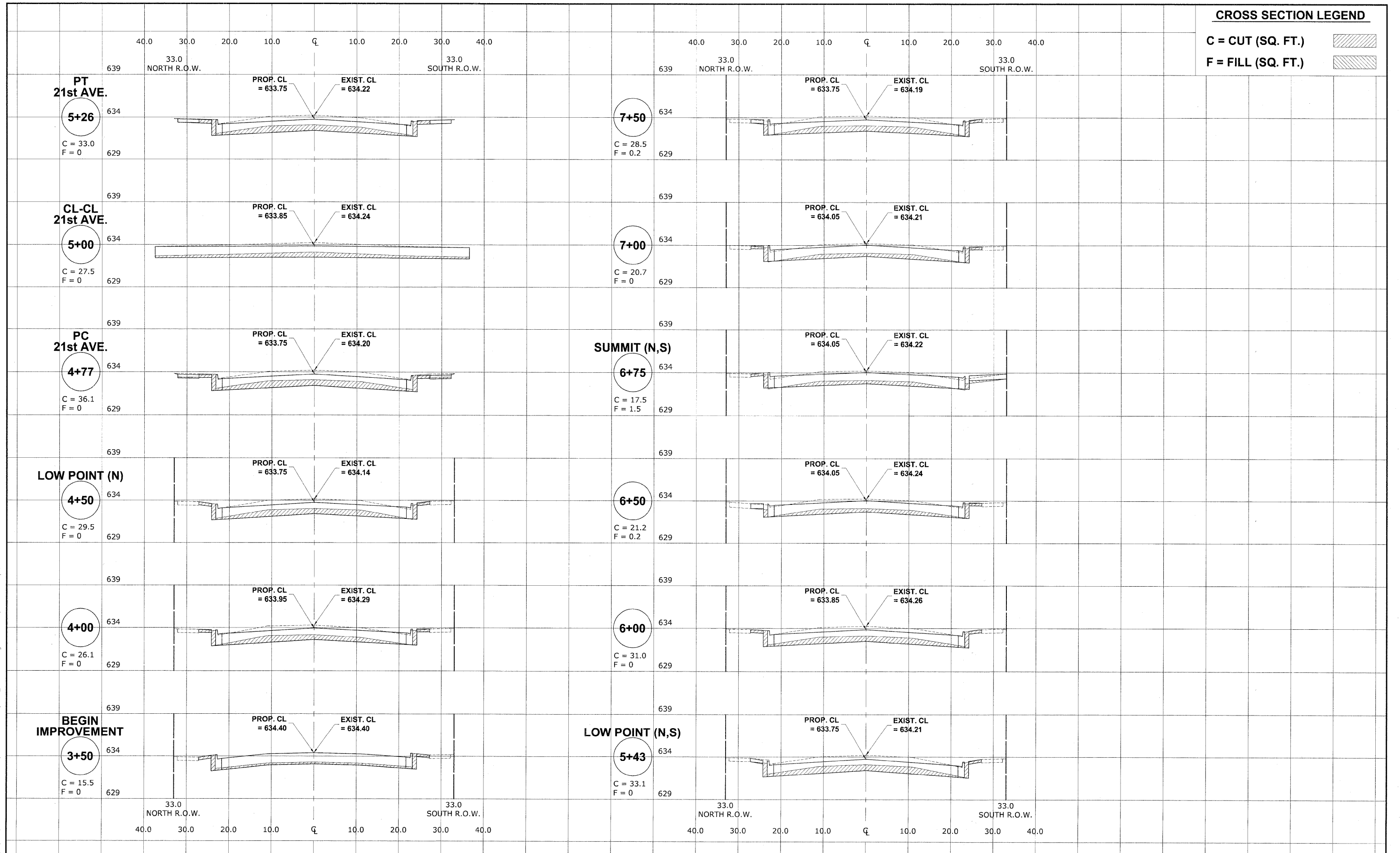
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F.A. RTE. 1397	SECTION 09-00129-00-PV	COUNTY COOK	TOTAL SHEETS 103	SHEET NO. 90
TS-07		CONTRACT NO. 63428		
FED. ROAD DIST. NO. 1 ILLINOIS FED. AID PROJECT M-9003 (267)				

E.H.E. PROJECT NO. 565-08-29001

CROSS SECTION LEGEND

C = CUT (SQ. FT.) 
 F = FILL (SQ. FT.) 



Drawing file: W:\Projects\56508290 - St Charles Rd\SECT_ST CHARLES\SECT_ST CHARLES.dwg Nov 25, 2009 - 4:55pm

HANCOCK ENGINEERING
 Civil Engineers
 Municipal Consultants
 Established 1911



USER NAME -	DESIGNED - MK/SBC	REVISED -
PLOT SCALE -	DRAWN - MK/LEV	REVISED -
PLOT DATE -	CHECKED - SBC/JG/MV	REVISED -
	DATE - 11-30-09	REVISED -

**STATE OF ILLINOIS
 DEPARTMENT OF TRANSPORTATION**

**STATION CROSS SECTIONS
 ST. CHARLES ROAD**
 SCALE: 1"=10'H/5'V. SHEET NO. 1 OF 12 SHEETS STA. 3+50 TO STA. 7+50

F.A.U. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
1397	09-00129-00-PV	COOK	103	91
CONTRACT NO. 63428			FED. ROAD DIST. NO. 1 ILLINOIS FED. AID PROJECT M-9003 (267)	
(BOOK NOS. 1579, 1583, 1589) E.H.E PROJECT NO. 565-08-29001				

CROSS SECTION LEGEND

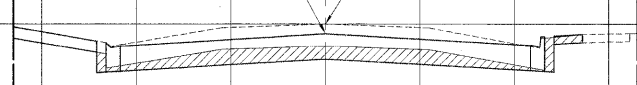
C = CUT (SQ. FT.) 
 F = FILL (SQ. FT.) 

10+00

C = 32.3
F = 0

40.0 30.0 20.0 10.0 Q 10.0 20.0 30.0 40.0
 33.0 NORTH R.O.W. 33.0 SOUTH R.O.W.

PROP. CL = 634.50
EXIST. CL = 634.99

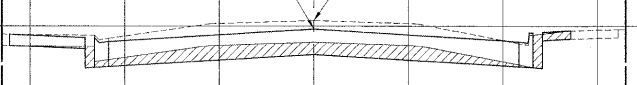


12+50

C = 32.0
F = 0

40.0 30.0 20.0 10.0 Q 10.0 20.0 30.0 40.0
 33.0 NORTH R.O.W. 33.0 SOUTH R.O.W.

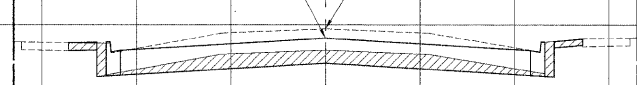
PROP. CL = 634.85
EXIST. CL = 635.28



9+50

C = 33.4
F = 0

PROP. CL = 634.30
EXIST. CL = 634.79

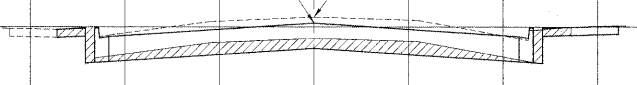


PT 19th AVE.

12+02

C = 29.2
F = 0

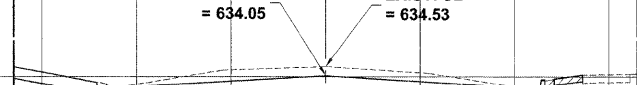
PROP. CL = 635.20
EXIST. CL = 635.52



9+00

C = 30.7
F = 0

PROP. CL = 634.05
EXIST. CL = 634.53

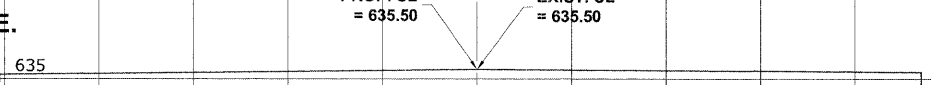


CL-CL 19th AVE.

11+67

C = 21.3
F = 0

PROP. CL = 635.50
EXIST. CL = 635.50

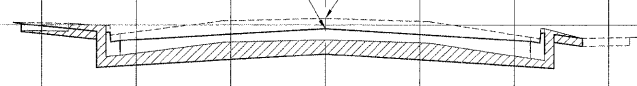


PT 20th AVE.

8+58

C = 43.6
F = 0.1

PROP. CL = 633.80
EXIST. CL = 634.34

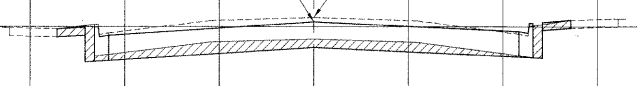


PC 19th AVE.

11+32

C = 23.3
F = 0

PROP. CL = 635.25
EXIST. CL = 635.48

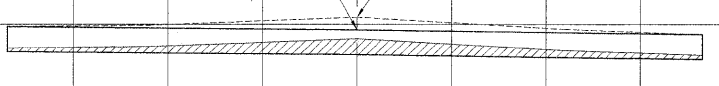


CL-CL 20th AVE.

8+33

C = 35.7
F = 0

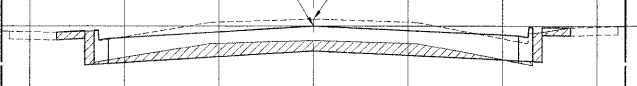
PROP. CL = 633.80
EXIST. CL = 634.37



11+00

C = 27.0
F = 0.4

PROP. CL = 635.00
EXIST. CL = 635.36

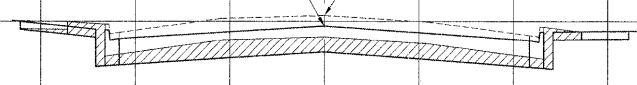


PC 20th AVE.

8+00

C = 42.8
F = 0.1

PROP. CL = 633.75
EXIST. CL = 634.31

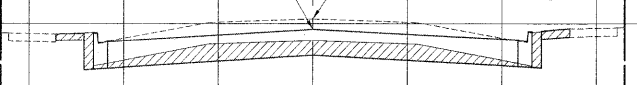


10+50

C = 35.7
F = 0

40.0 30.0 20.0 10.0 Q 10.0 20.0 30.0 40.0
 33.0 NORTH R.O.W. 33.0 SOUTH R.O.W.

PROP. CL = 634.70
EXIST. CL = 635.24



Drawing file: W:\Projects\65082900 - St. Charles Rd\XSECT\ST CHARLES\XSECT_ST CHARLES.dwg Nov 25, 2009 - 4:55pm

HANCOCK ENGINEERING
 Civil Engineers
 Municipal Consultants
 Established 1911
 9030 Bonnell Road
 Woodstock, Illinois 61542-7780
 Phone: 708/864-8800
 Fax: 708/864-1232

USER NAME --	DESIGNED -- MK/SBC	REVISED --
PLOT SCALE --	DRAWN -- MK/LEV	REVISED --
PLOT DATE --	CHECKED -- SBC/JG/MV	REVISED --
	DATE -- 11-30-09	REVISED --

STATE OF ILLINOIS DEPARTMENT OF TRANSPORTATION

STATION CROSS SECTIONS ST. CHARLES ROAD

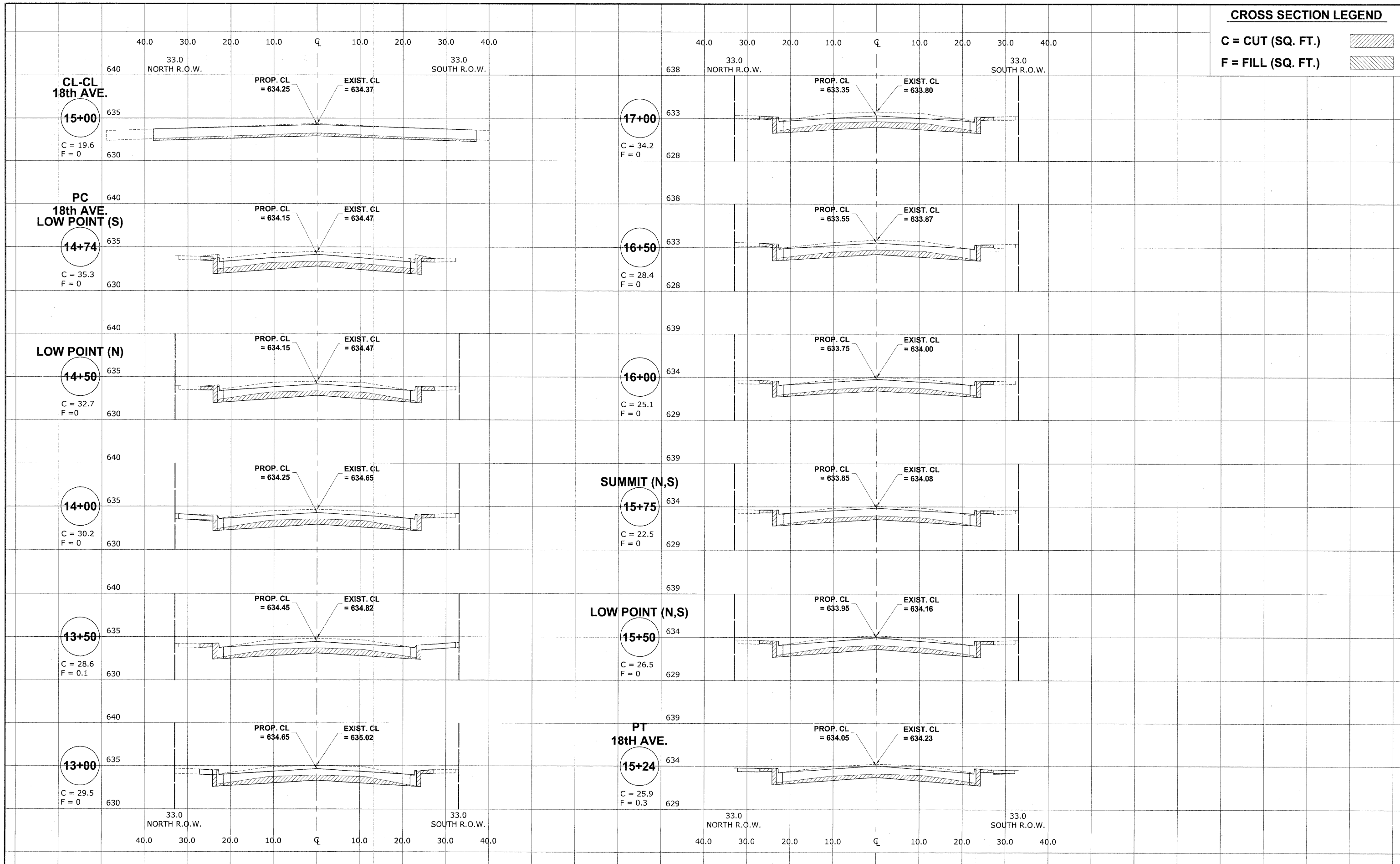
SCALE: 1"=10'H/5'V. SHEET NO. 2 OF 12 SHEETS STA. 8+06 TO STA. 12+50

F.A.U. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
1397	09-00129-00-PV	COOK	103	92
CONTRACT NO. 6342B				
FED. ROAD DIST. NO. 1 ILLINOIS			FED. AID PROJECT M-9003 (267)	
(BOOK NOS. 1579, 1583, 1589) E.H.E. PROJECT NO. 565-08-29001				

CROSS SECTION LEGEND

C = CUT (SQ. FT.)

F = FILL (SQ. FT.)



Drawing file: W:\Projects\36509290 - St. Charles Rd\XSECT_ST CHARLES\XSECT_ST CHARLES.dwg Nov 25, 2009 - 4:55pm

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USER NAME -	DESIGNED - MK/SEC	REVISED -
PLOT SCALE -	DRAWN - MK/LEV	REVISED -
PLOT DATE -	CHECKED - SBC/JG/MV	REVISED -
	DATE - 11-30-09	REVISED -

**STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION**



**STATION CROSS SECTIONS
ST. CHARLES ROAD**

SCALE: 1"=10'H./5'V. SHEET NO. 3 OF 12 SHEETS STA. 13+00 TO STA. 17+00

F.A.U. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
1397	09-00129-00-PV	COOK	103	93
CONTRACT NO. 63428				
FED. ROAD DIST. NO. 1 ILLINOIS FED. AID PROJECT M-9003 (267)				

(BOOK NOS. 1579, 1583, 1589) E.H.E. PROJECT NO. 565-08-29001

CROSS SECTION LEGEND

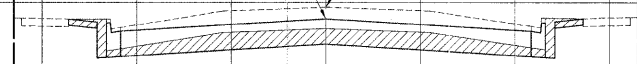
C = CUT (SQ. FT.) 
 F = FILL (SQ. FT.) 

19+50

C = 41.9
F = 0

40.0 30.0 20.0 10.0 Q 10.0 20.0 30.0 40.0
 33.0 NORTH R.O.W. 33.0 SOUTH R.O.W.

PROP. CL = 633.15
 EXIST. CL = 633.76



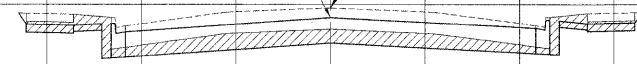
PC
16th AVE.

21+43

C = 46.1
F = 0

40.0 30.0 20.0 10.0 Q 10.0 20.0 30.0 40.0
 33.0 NORTH R.O.W. 33.0 SOUTH R.O.W.

PROP. CL = 633.30
 EXIST. CL = 633.84



LOW POINT (N,S)

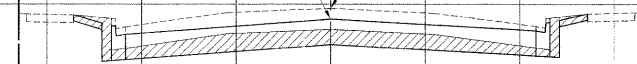
21+25

C = 42.5
F = 0

PROP. CL = 633.15
 EXIST. CL = 633.72



PROP. CL = 633.20
 EXIST. CL = 633.79

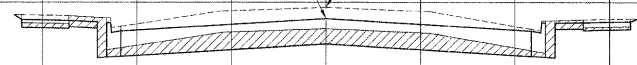


PT
17th AVE.

18+55

C = 43.3
F = 0

PROP. CL = 633.15
 EXIST. CL = 633.76



21+00

C = 33.8
F = 0

PROP. CL = 633.25
 EXIST. CL = 633.75

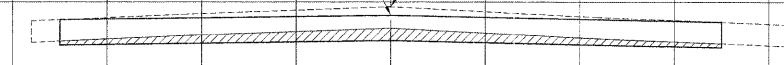


CL-CL
17th AVE.

18+33

C = 30.0
F = 0

PROP. CL = 633.30
 EXIST. CL = 633.74

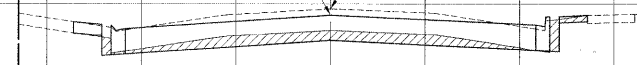


SUMMIT (S)

20+50

C = 23.2
F = 0

PROP. CL = 633.40
 EXIST. CL = 633.74



LOW POINT (N,S)

18+00

C = 48.8
F = 0

PROP. CL = 633.10
 EXIST. CL = 633.70

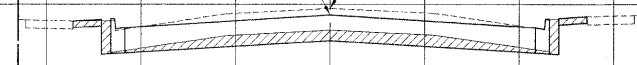


SUMMIT (N)

20+25

C = 26.4
F = 0

PROP. CL = 633.45
 EXIST. CL = 633.78



17+50

C = 40.4
F = 0

PROP. CL = 633.15
 EXIST. CL = 633.72

40.0 30.0 20.0 10.0 Q 10.0 20.0 30.0 40.0
 33.0 NORTH R.O.W. 33.0 SOUTH R.O.W.

40.0 30.0 20.0 10.0 Q 10.0 20.0 30.0 40.0
 33.0 NORTH R.O.W. 33.0 SOUTH R.O.W.

STATE OF ILLINOIS
 DEPARTMENT OF TRANSPORTATION

STATION CROSS SECTIONS
 ST. CHARLES ROAD

F.A.U. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
1397	09-00129-00-PV	COOK	103	94
CONTRACT NO. 63428			FED. ROAD DIST. NO. 1 ILLINOIS FED. AID PROJECT M-9003 (267)	
(BOOK NOS. 1579, 1583, 1589) E.H.E PROJECT NO. 565-08-29001				

SCALE: 1"=10'H/5'V. SHEET NO. 4 OF 12 SHEETS STA. 17+50 TO STA. 21+40



Drawing file: W:\Projects\565082900 - St. Charles Rd\XSECT\ST CHARLES\XSECT_ST CHARLES.dwg Nov 25, 2009 - 4:55pm

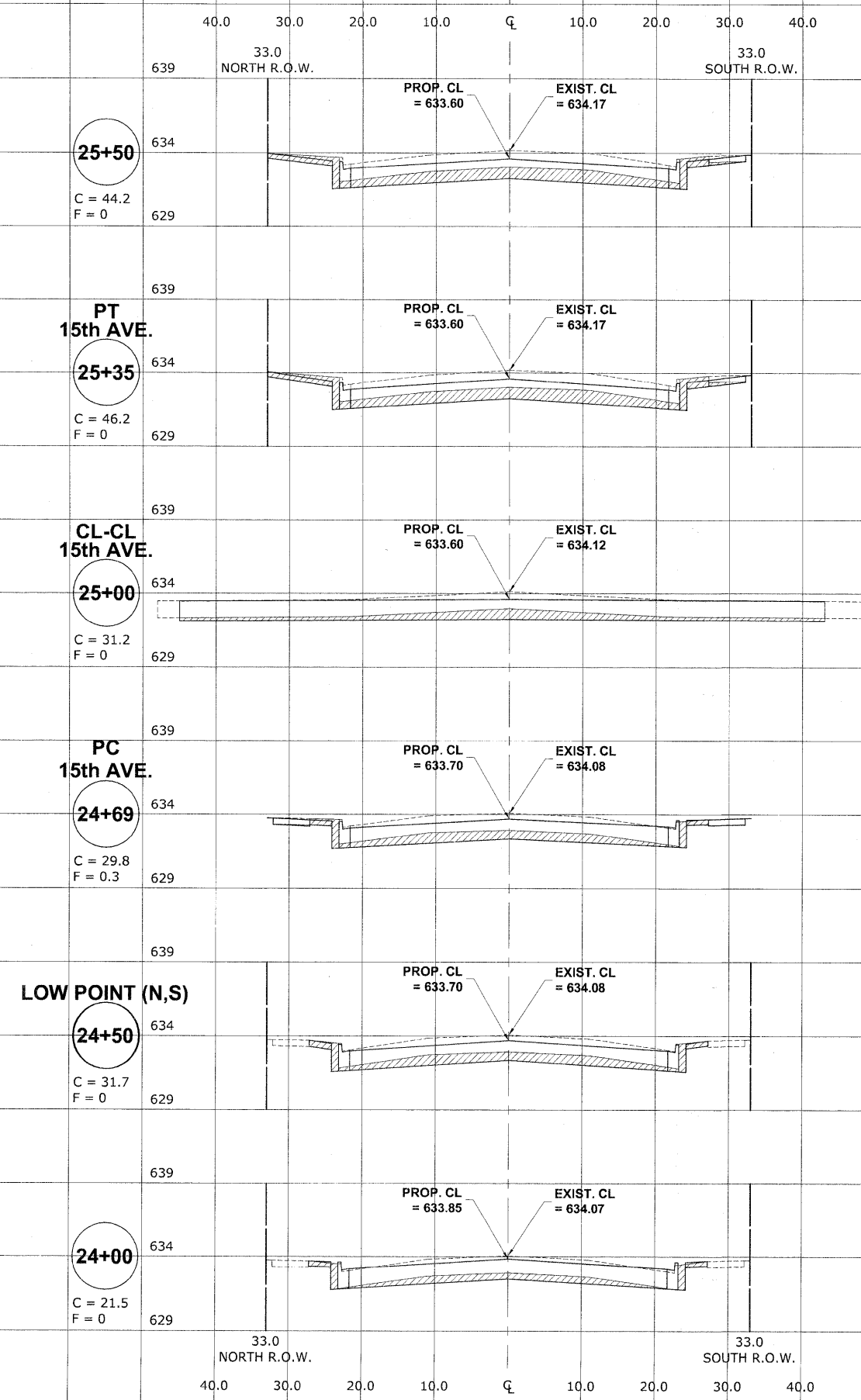
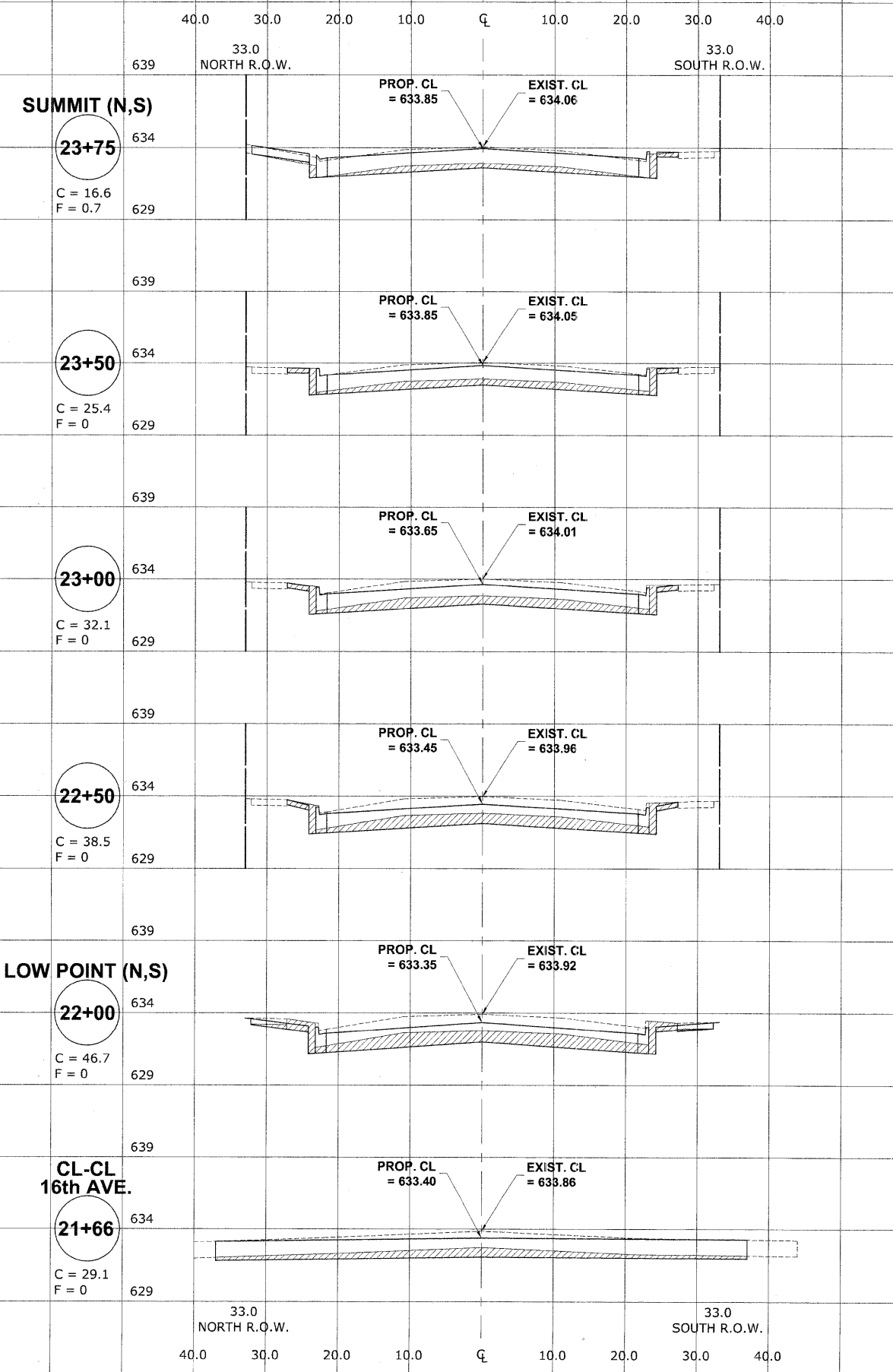
HANCOCK ENGINEERING
 Civil Engineers
 Municipal Consultants
 Established 1911

9533 Riverchase Blvd
 Westchester, Illinois 60591-2788
 Phone: 708/664-0300
 Fax: 708/664-1212

USER NAME	DESIGNED - MK/SEC	REVISED -
PLOT SCALE	DRAWN - MK/LEV	REVISED -
PLOT DATE	CHECKED - SBC/JG/MV	REVISED -
	DATE - 11-30-09	REVISED -

CROSS SECTION LEGEND

C = CUT (SQ. FT.) 
 F = FILL (SQ. FT.) 



Drawing file: W:\Projects\16508290 - St. Charles Rd\SECT_ST CHARLES\SECT_ST CHARLES.dwg Nov 25, 2009 - 4:55pm

HANCOCK ENGINEERING
 Civil Engineers
 Municipal Consultants
 Established 1911

9033 Riverchase Road
 Westchester, Illinois 60591-2786
 Phone: 708-685-0300
 Fax: 708-685-0312

USER NAME --	DESIGNED -- MK/SBC	REVISED --
PLOT SCALE --	DRAWN -- MK/LEV	REVISED --
PLOT DATE --	CHECKED -- SBC/JGMV	REVISED --
	DATE -- 11-30-09	REVISED --

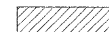

**STATE OF ILLINOIS
 DEPARTMENT OF TRANSPORTATION**

**STATION CROSS SECTIONS
 ST. CHARLES ROAD**

SCALE: 1"=10'H/V. SHEET NO. 5 OF 12 SHEETS STA. 21+66 TO STA. 25+50

F.A.U. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
1397	09-00129-00-PV	COOK	103	95
CONTRACT NO. 63428				
FED. ROAD DIST. NO. 1 ILLINOIS			FED. AID PROJECT M-9003 (267)	
(BOOK NOS. 1579, 1583, 1589) E.H.E PROJECT NO. 565-08-29001				

CROSS SECTION LEGEND

C = CUT (SQ. FT.) 
 F = FILL (SQ. FT.) 

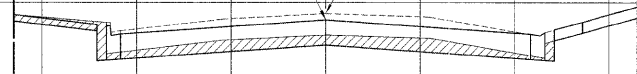
LOW POINT

28+00

C = 31.2
F = 0

40.0 30.0 20.0 10.0 Q 10.0 20.0 30.0 40.0
 33.0 NORTH R.O.W. 33.0 SOUTH R.O.W.

PROP. CL = 634.10
 EXIST. CL = 634.43

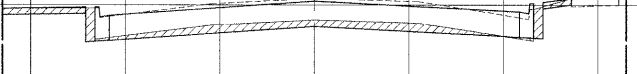


30+00

C = 21.1
F = 0.3

40.0 30.0 20.0 10.0 Q 10.0 20.0 30.0 40.0
 33.0 NORTH R.O.W. 33.0 SOUTH R.O.W.

PROP. CL = 634.20
 EXIST. CL = 634.34



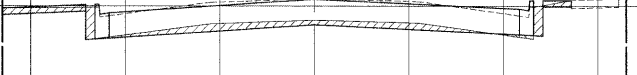
SUMMIT (N,S)

29+50

C = 17.0
F = 0.5

40.0 30.0 20.0 10.0 Q 10.0 20.0 30.0 40.0
 33.0 NORTH R.O.W. 33.0 SOUTH R.O.W.

PROP. CL = 634.35
 EXIST. CL = 634.39



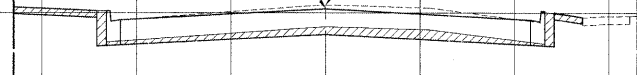
SUMMIT (N,S)

27+25

C = 23.5
F = 0

40.0 30.0 20.0 10.0 Q 10.0 20.0 30.0 40.0
 33.0 NORTH R.O.W. 33.0 SOUTH R.O.W.

PROP. CL = 634.20
 EXIST. CL = 634.41

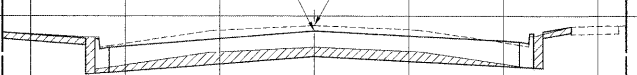


29+00

C = 28.6
F = 0

40.0 30.0 20.0 10.0 Q 10.0 20.0 30.0 40.0
 33.0 NORTH R.O.W. 33.0 SOUTH R.O.W.

PROP. CL = 634.20
 EXIST. CL = 634.49



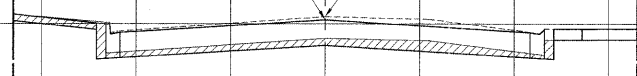
PT
14th AVE.
LOW POINT (S)

28+75

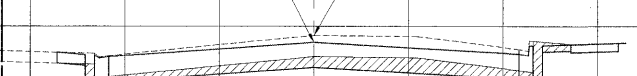
C = 29.6
F = 0.1

40.0 30.0 20.0 10.0 Q 10.0 20.0 30.0 40.0
 33.0 NORTH R.O.W. 33.0 SOUTH R.O.W.

PROP. CL = 634.20
 EXIST. CL = 634.37



PROP. CL = 634.15
 EXIST. CL = 634.53



CL-CL
14th AVE.

28+45

C = 23.1
F = 0.3

40.0 30.0 20.0 10.0 Q 10.0 20.0 30.0 40.0
 33.0 NORTH R.O.W. 33.0 SOUTH R.O.W.

PROP. CL = 634.00
 EXIST. CL = 634.25



PROP. CL = 634.15
 EXIST. CL = 634.55



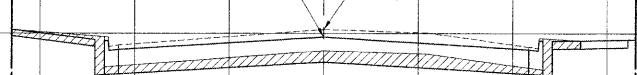
PC
14th AVE.

28+23

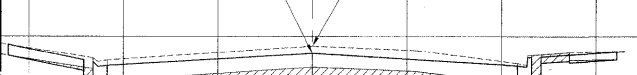
C = 31.1
F = 0

40.0 30.0 20.0 10.0 Q 10.0 20.0 30.0 40.0
 33.0 NORTH R.O.W. 33.0 SOUTH R.O.W.

PROP. CL = 633.80
 EXIST. CL = 634.20



PROP. CL = 634.10
 EXIST. CL = 634.48



Drawing file: W:\Projects\565082900 - St. Charles Rd\XSECT_ST CHARLES\XSECT_ST CHARLES.dwg Nov 25, 2009 - 4:55pm

HANCOCK ENGINEERING
 Civil Engineers
 Municipal Consultants
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USER NAME -
 PLOT SCALE -
 PLOT DATE -

DESIGNED - MK/SEC
 DRAWN - MK/LEV
 CHECKED - SBC/JGMV
 DATE - 11-30-09

REVISED -
 REVISED -
 REVISED -
 REVISED -



STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

STATION CROSS SECTIONS
ST. CHARLES ROAD

SCALE: 1"=10'H/5'V. SHEET NO. 6 OF 12 SHEETS STA. 26+00 TO STA. 30+00

F.A.U. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
1397	09-00129-00-PV	COOK	103	96
CONTRACT NO. 63428			M-9003 (267)	
FED. ROAD DIST. NO. 1 ILLINOIS FED. AID PROJECT E.H.E PROJECT NO. 565-08-29001				

CROSS SECTION LEGEND

C = CUT (SQ. FT.) 
 F = FILL (SQ. FT.) 

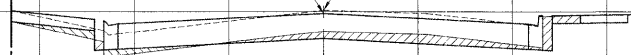
PT
13th AVE.
SUMMIT (S)

32+20

C = 14.1
 F = 4.4

40.0 30.0 20.0 10.0 Q 10.0 20.0 30.0 40.0
 33.0 NORTH R.O.W. 33.0 SOUTH R.O.W.

PROP. CL = 633.90
 EXIST. CL = 634.07



35+00

C = 24.8
 F = 0.2

40.0 30.0 20.0 10.0 Q 10.0 20.0 30.0 40.0
 33.0 NORTH R.O.W. 33.0 SOUTH R.O.W.

PROP. CL = 632.60
 EXIST. CL = 632.83



SUMMIT (N)

32+00

C = 9.2
 F = 5.5

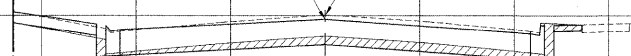
PROP. CL = 633.90
 EXIST. CL = 634.11



34+50

C = 20.8
 F = 0.7

PROP. CL = 632.80
 EXIST. CL = 633.04

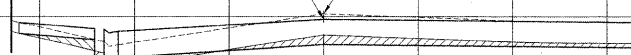


CL-CL
13th AVE.

31+89

C = 14.4
 F = 5.7

PROP. CL = 633.85
 EXIST. CL = 634.15



34+00

C = 23.4
 F = 1.0

PROP. CL = 633.00
 EXIST. CL = 633.24

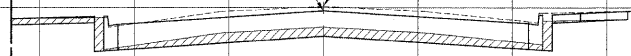


PC
13th AVE.

31+66

C = 25.7
 F = 0

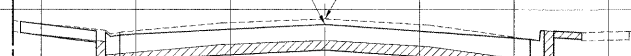
PROP. CL = 633.82
 EXIST. CL = 634.08



33+50

C = 25.9
 F = 0

PROP. CL = 633.20
 EXIST. CL = 633.50



31+00

C = 29.0
 F = 0.6

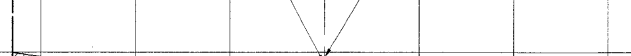
PROP. CL = 633.80
 EXIST. CL = 634.12



33+00

C = 30.7
 F = 0

PROP. CL = 633.40
 EXIST. CL = 633.72



30+50

C = 25.1
 F = 0.7

PROP. CL = 634.00
 EXIST. CL = 634.26



32+50

C = 27.9
 F = 0

PROP. CL = 633.70
 EXIST. CL = 634.00



40.0 30.0 20.0 10.0 Q 10.0 20.0 30.0 40.0
 33.0 NORTH R.O.W. 33.0 SOUTH R.O.W.

40.0 30.0 20.0 10.0 Q 10.0 20.0 30.0 40.0
 33.0 NORTH R.O.W. 33.0 SOUTH R.O.W.



USER NAME -	DESIGNED - MK/SBC	REVISED -
PLOT SCALE -	DRAWN - MK/LEV	REVISED -
PLOT DATE -	CHECKED - SBC/JG/MV	REVISED -
	DATE - 11-30-09	REVISED -

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION



STATION CROSS SECTIONS
ST. CHARLES ROAD

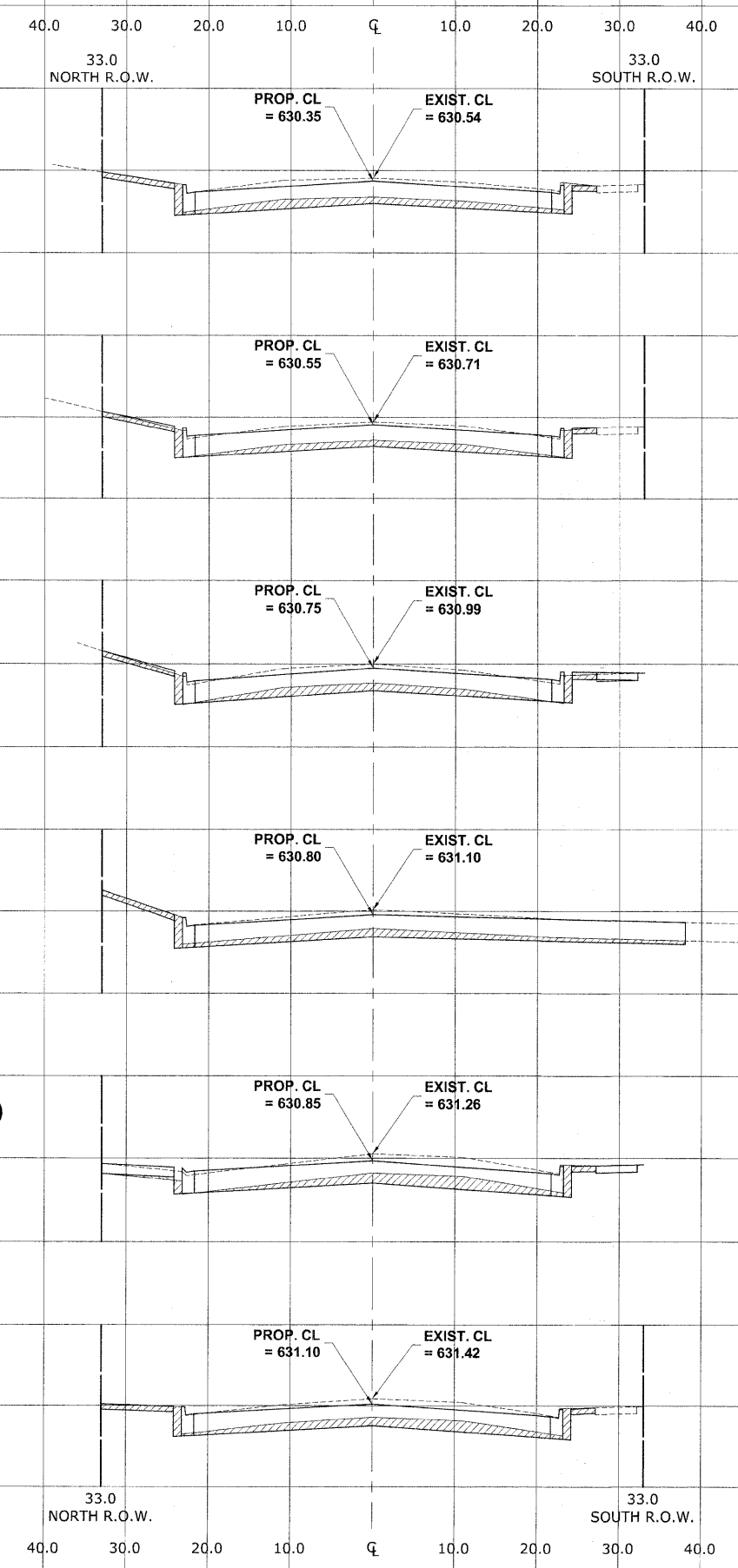
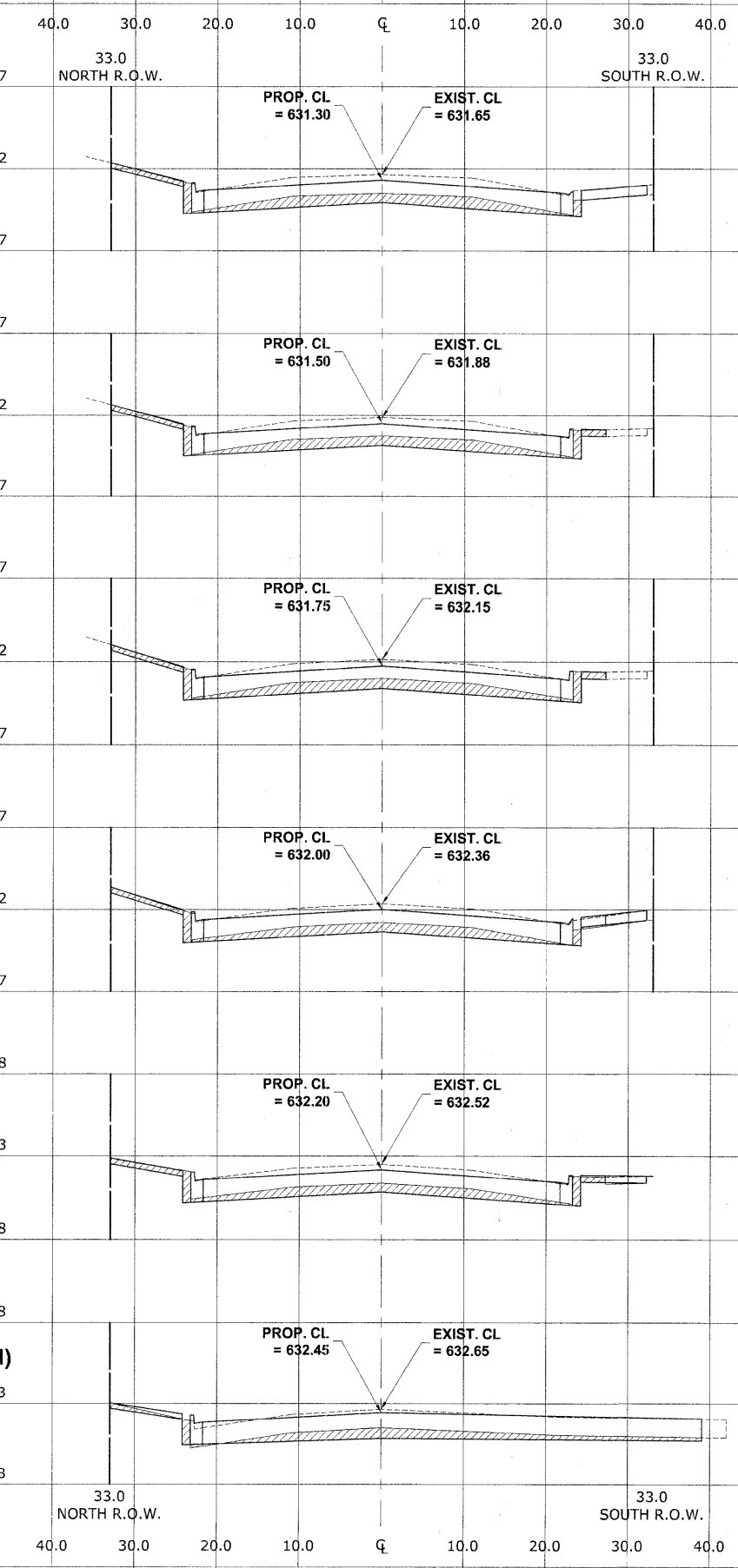
SCALE: 1"=10'H/V. SHEET NO. 7 OF 12 SHEETS STA. 30+50 TO STA. 35+10

F.A.U. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
1397	09-00129-00-PV	COOK	103	97
CONTRACT NO. 63428			FED. ROAD DIST. NO. 1 ILLINOIS FED. AID PROJECT M-9003 (267)	
(BOOK NOS. 1579, 1583, 1589) E.H.E. PROJECT NO. 565-08-29001				

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CROSS SECTION LEGEND

C = CUT (SQ. FT.) 
 F = FILL (SQ. FT.) 



PT
11th AVE.
SUMMIT (S)

PC
11th AVE.
LOW POINT (N)

PT
12th AVE.

CL-CL
12th AVE.
LOW POINT (N)

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PLOT SCALE -	DRAWN - MK/LEV	REVISED -
PLOT DATE -	CHECKED - SBC/JG/MV	REVISED -
	DATE - 11-30-09	REVISED -

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

STATION CROSS SECTIONS
ST. CHARLES ROAD

SCALE: 1"=10'H/5'V. SHEET NO. 8 OF 12 SHEETS STA. 35+33 TO STA. 40+00

F.A.U. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
1397	09-00129-00-PV	COOK	103	98
CONTRACT NO. 63428			FED. ROAD DIST. NO. 1 ILLINOIS FED. AID PROJECT M-9003 (267)	
(BOOK NOS. 1579, 1583, 1589) E.H.E PROJECT NO. 565-08-29001				

CROSS SECTION LEGEND

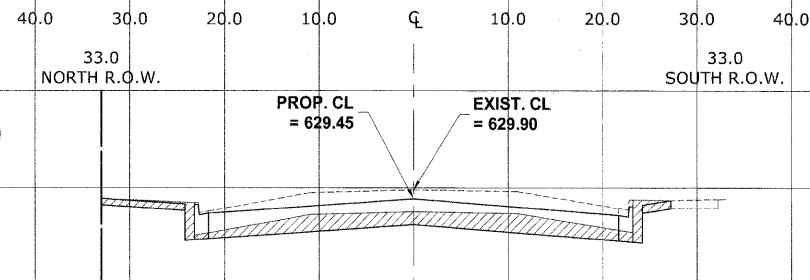
C = CUT (SQ. FT.)

F = FILL (SQ. FT.)

LOW POINT (N,S)

42+50

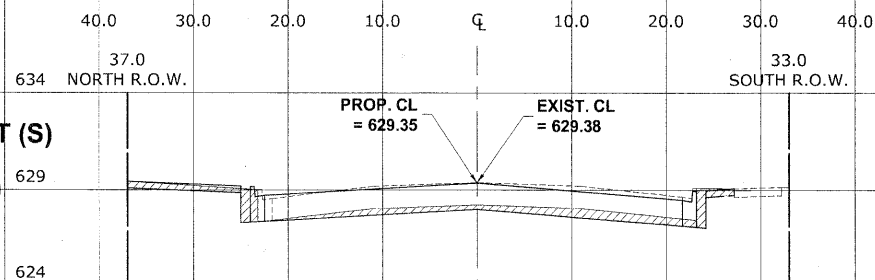
C = 42.9
F = 0



LOW POINT (S)

44+75

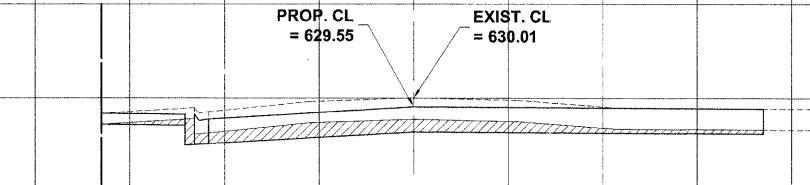
C = 23.8
F = 0



**CL-CL
10th AVE.**

42+10

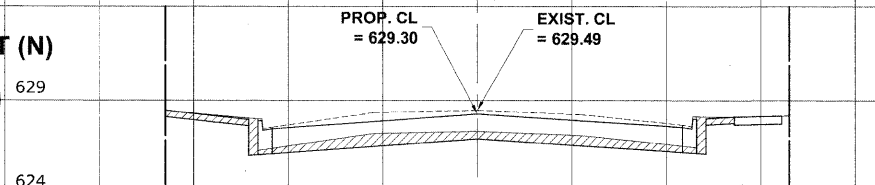
C = 33.4
F = 0



LOW POINT (N)

44+50

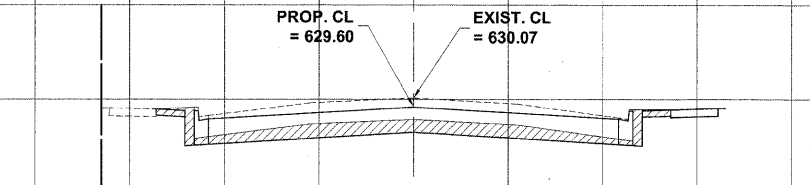
C = 30.2
F = 0



**PC
10th AVE.**

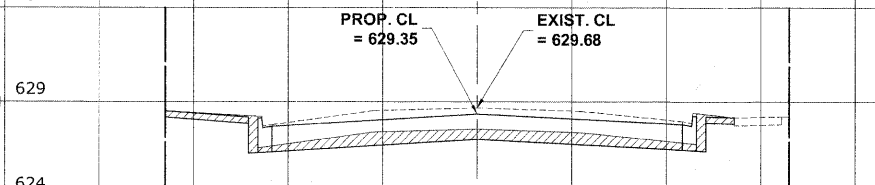
41+86

C = 34.2
F = 0.1



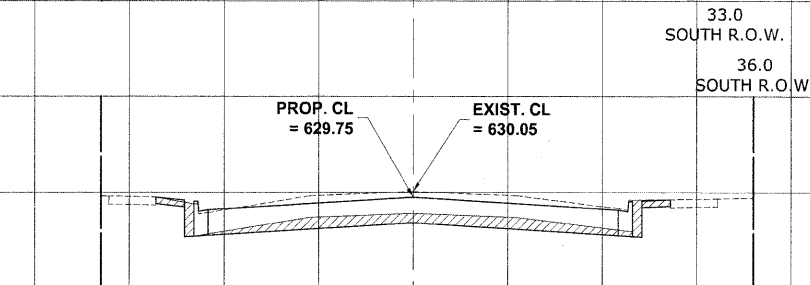
44+00

C = 33.5
F = 0



41+50

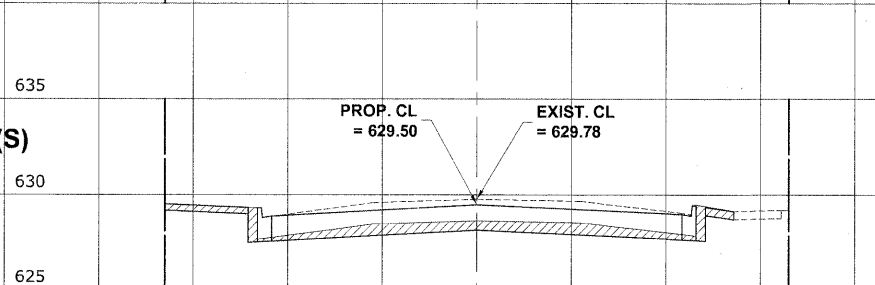
C = 26.9
F = 0



SUMMIT (S)

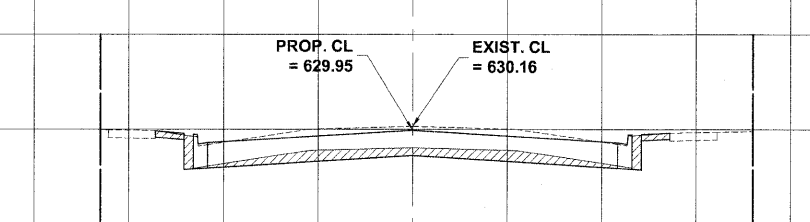
43+50

C = 30.2
F = 0



41+00

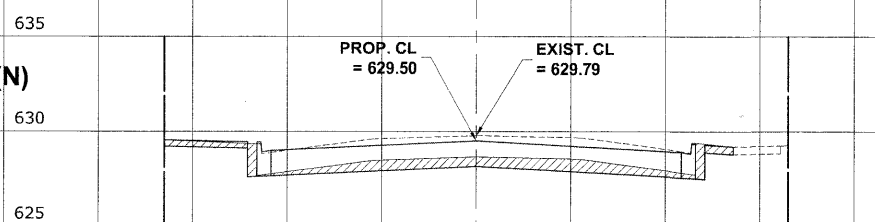
C = 24.5
F = 0



SUMMIT (N)

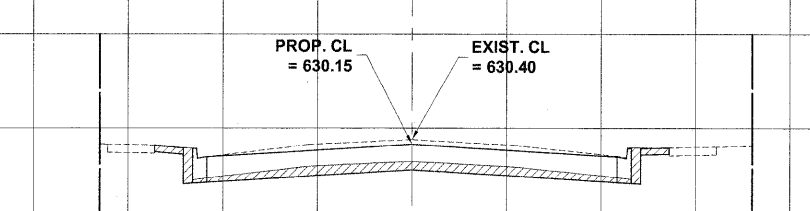
43+25

C = 29.2
F = 0



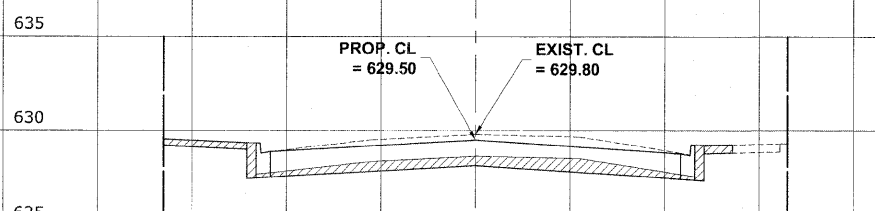
40+50

C = 25.1
F = 0



43+00

C = 30.5
F = 0



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9033 Stewart Road
Webster, Illinois 60554-2788
Phone: 708-864-0100
Fax: 708-864-1212

USER NAME -	DESIGNED - MK/SBC	REVISED -
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PLOT DATE -	CHECKED - SBC/JG/MV	REVISED -
	DATE - 11-30-09	REVISED -



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DEPARTMENT OF TRANSPORTATION**

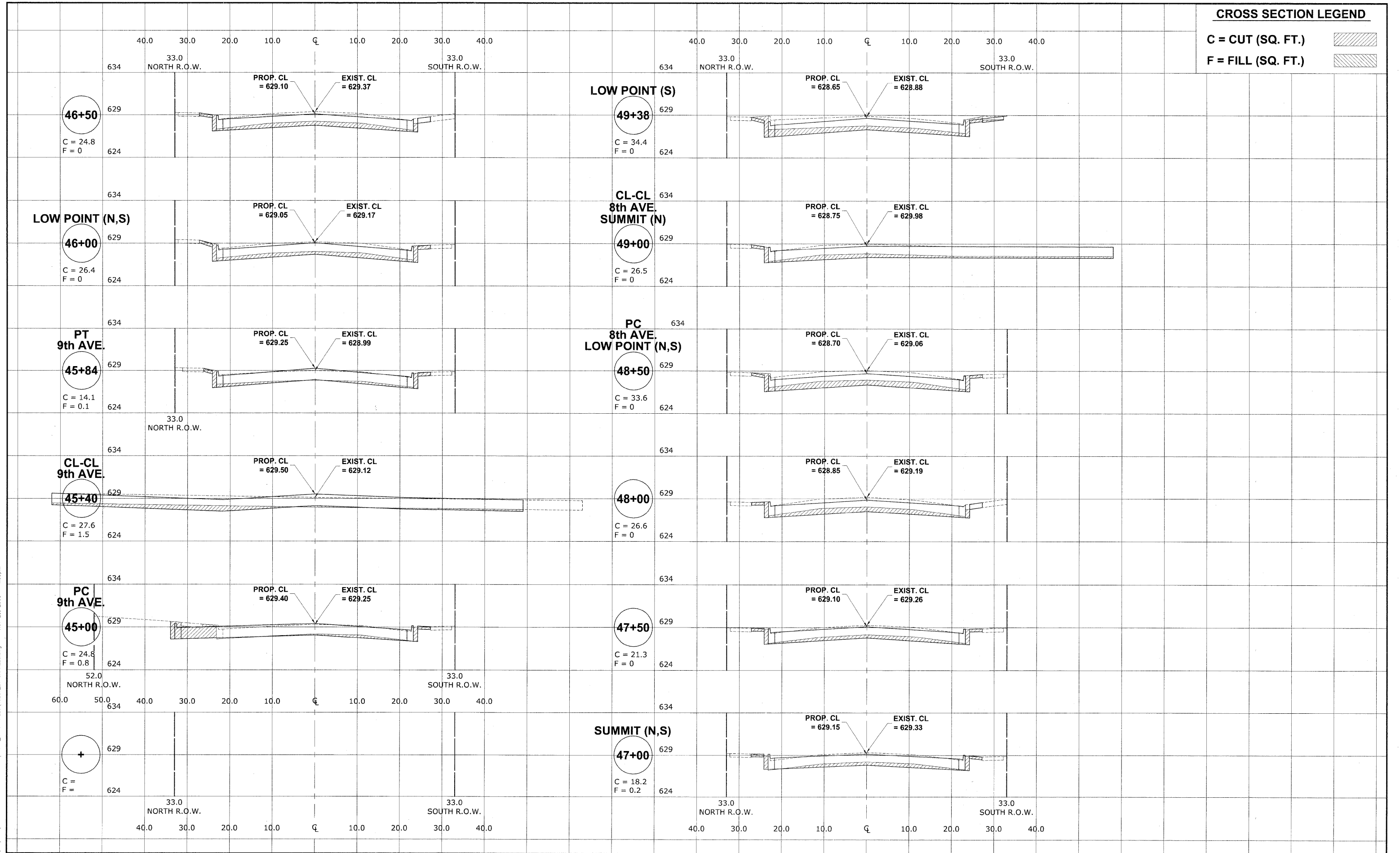
**STATION CROSS SECTIONS
ST. CHARLES ROAD**

SCALE: 1"=10'H/5'V. SHEET NO. 9 OF 12 SHEETS STA. 40+50 TO STA. 44+75

F.A.U. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
1397	09-00129-00-PV	COOK	103	99
CONTRACT NO. 63428			M-9003 (267)	
FED. ROAD DIST. NO. 1 ILLINOIS FED. AID PROJECT M-9003 (267)				
(BOOK NOS. 1579, 1583, 1589) E.H.E PROJECT NO. 565-08-29001				

CROSS SECTION LEGEND

C = CUT (SQ. FT.) 
 F = FILL (SQ. FT.) 



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 9933 Woodruff Road
 Westchester, Illinois 60159-2780
 Phone: 708/666-6900
 Fax: 708/666-6212

USER NAME --	DESIGNED -- MK/SBC	REVISED --
PLOT SCALE --	DRAWN -- MK/LEV	REVISED --
PLOT DATE --	CHECKED -- SBC/JG/MV	REVISED --
	DATE -- 11-30-09	REVISED --

**STATE OF ILLINOIS
 DEPARTMENT OF TRANSPORTATION**

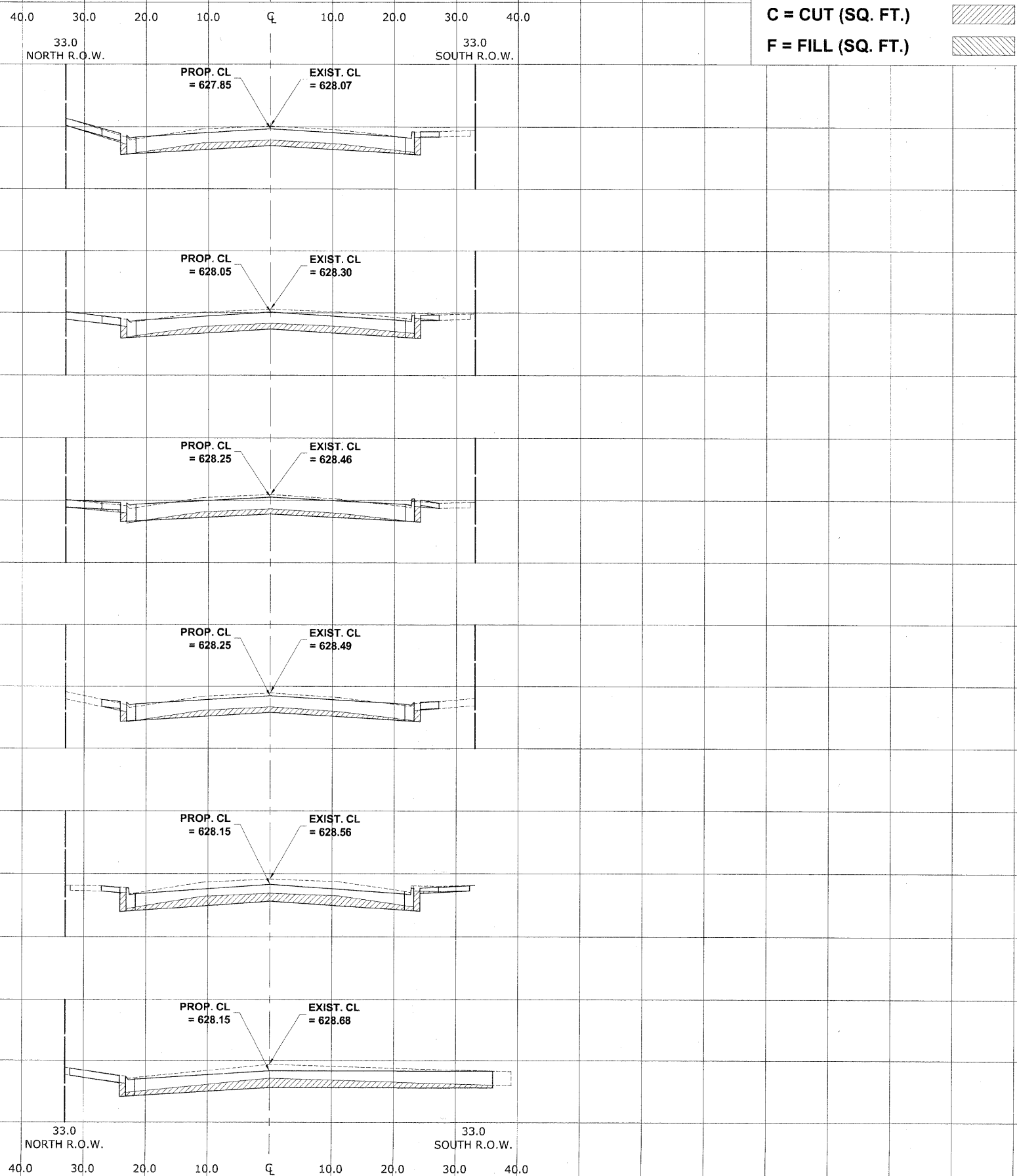
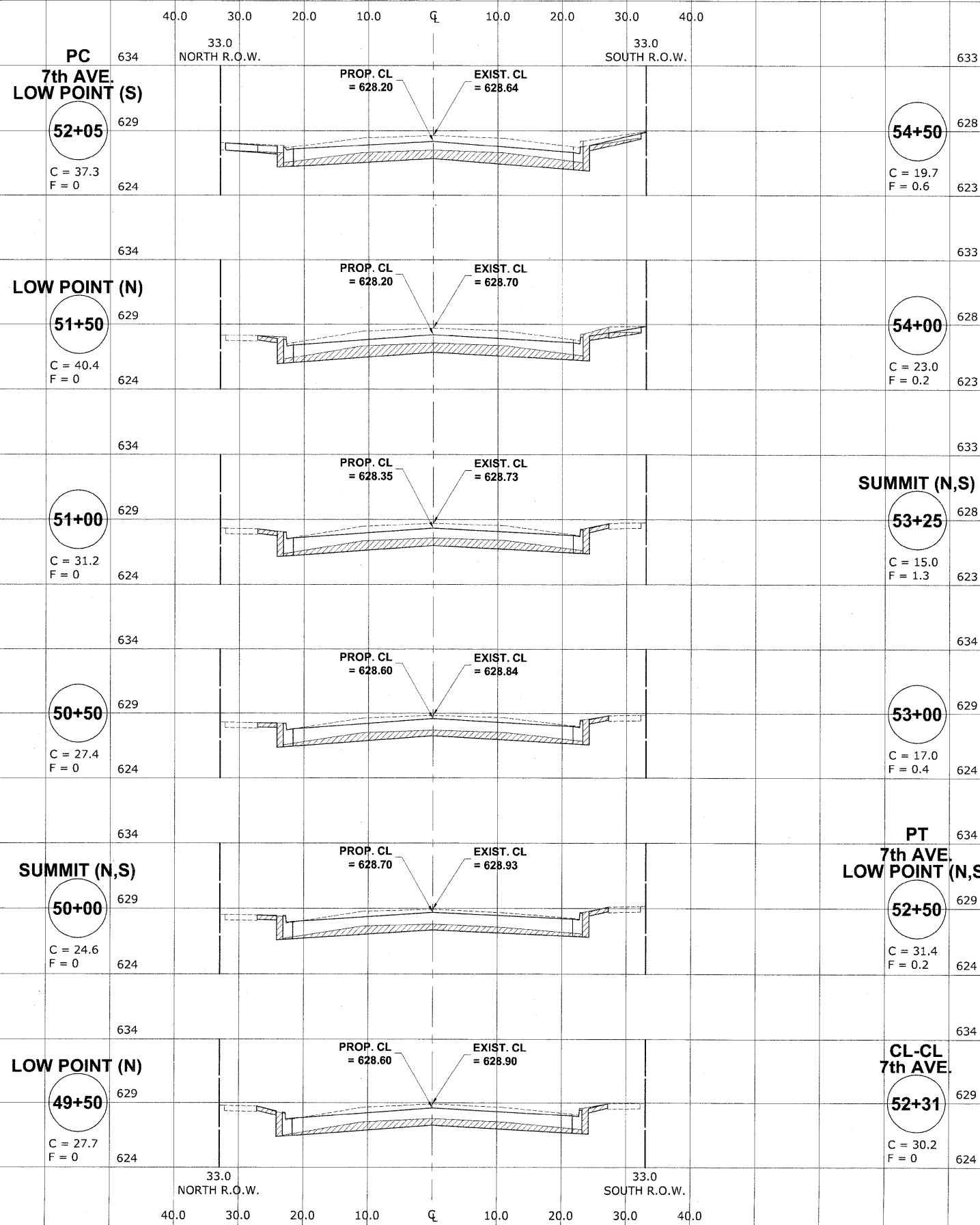
**STATION CROSS SECTIONS
 ST. CHARLES ROAD**
 SCALE: 1"=10'H./5'V. SHEET NO. 10 OF 12 SHEETS STA. 44+88 TO STA. 49+41

F.A.U. RTE. 1397	SECTION 09-00129-00-PV	COUNTY COOK	TOTAL SHEETS 103	SHEET NO. 100
CONTRACT NO. 63428			FED. ROAD DIST. NO. 1 ILLINOIS FED. AID PROJECT M-9003 (267)	
(BOOK NOS. 1579, 1583, 1589) E.H.E PROJECT NO. 565-08-29001				

CROSS SECTION LEGEND

C = CUT (SQ. FT.)

F = FILL (SQ. FT.)



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PLOT SCALE -	DRAWN - MK/LEV	REVISED -
PLOT DATE -	CHECKED - SBC/JGMV	REVISED -
	DATE - 11-30-09	REVISED -



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**STATION CROSS SECTIONS
ST. CHARLES ROAD**

SCALE: 1"=10'H/5'V. SHEET NO. 11 OF 12 SHEETS STA. 49+50 TO STA. 54+50

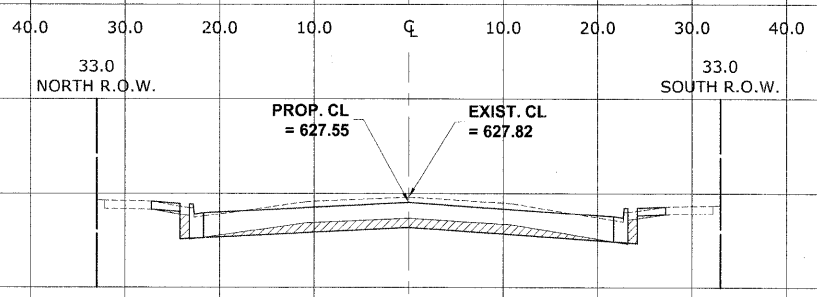
F.A.U. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
1397	09-00129-00-PV	COOK	103	101
CONTRACT NO. 63428				
FED. ROAD DIST. NO. 1 ILLINOIS FED. AID PROJECT M-9003 (267)				
(BOOK NOS. 1579, 1583, 1589) E.H.E. PROJECT NO. 565-08-29001				

CROSS SECTION LEGEND

C = CUT (SQ. FT.) 
 F = FILL (SQ. FT.) 

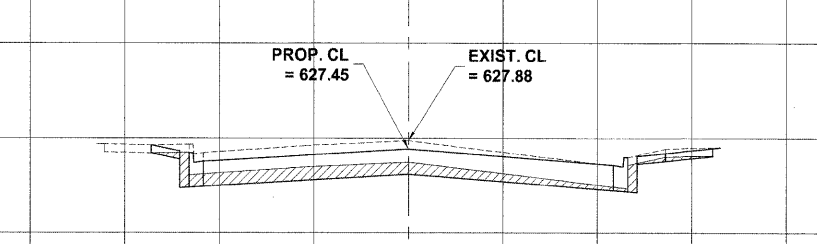
56+50

C = 18.5
F = 0.6



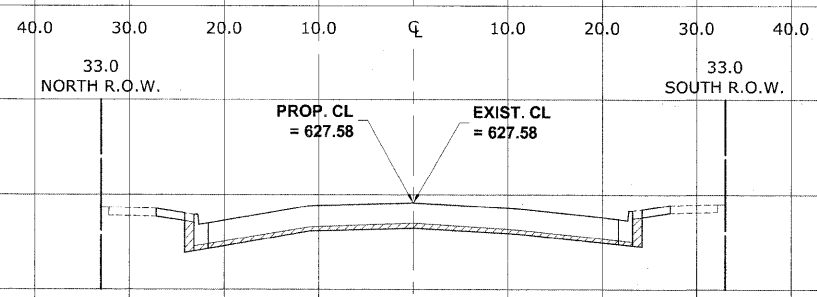
**PT (S)
6th AVE.
LOW POINT (N,S)**

56+00
C = 29.9
F = 0



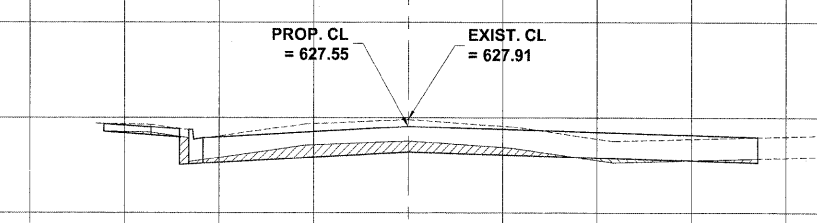
END IMPROVEMENT

58+40
C = 13.7
F = 0

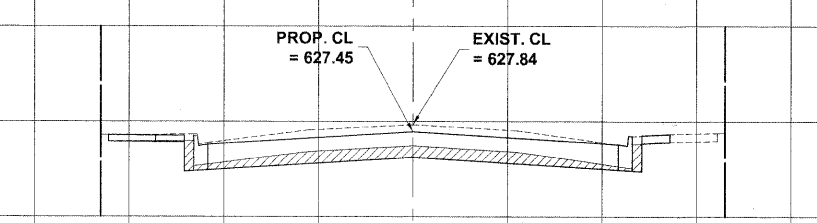


**PT (N)
6th AVE.**

55+76
C = 20.4
F = 1.4

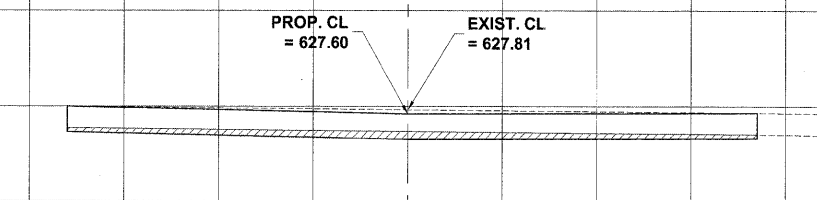


58+00
C = 26.6
F = 0

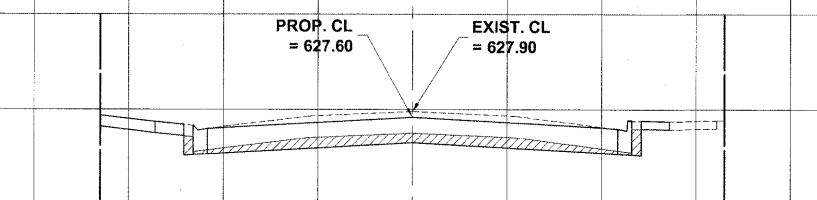


**CL-CL
6th AVE.**

55+62
C = 23.0
F = 0

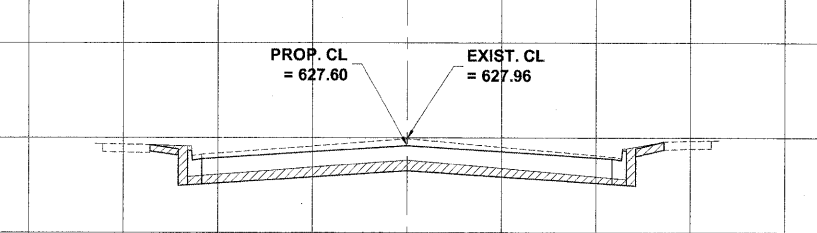


57+50
C = 23.0
F = 0.1



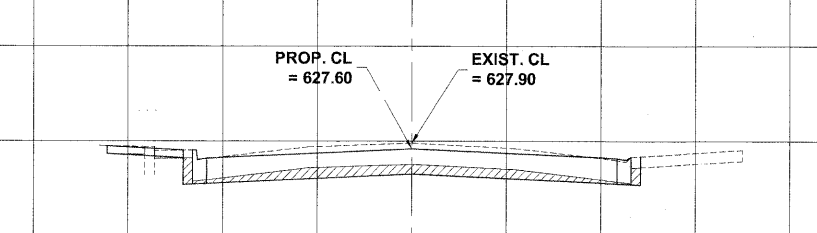
**PC
6th AVE.
LOW POINT (N,S)**

55+25
C = 28.5
F = 0

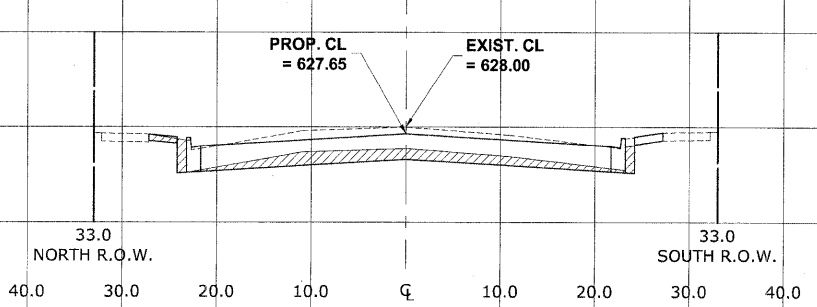


SUMMIT (S)

57+25
C = 21.5
F = 0.2

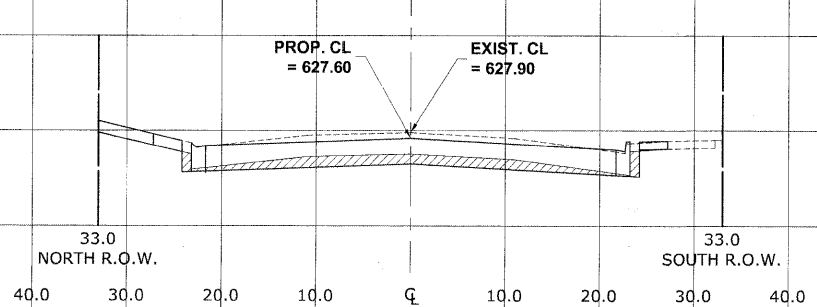


55+00
C = 24.5
F = 0



SUMMIT (N)

57+00
C = 21.8
F = 0.1



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9933 Bonnell Road
 Westchester, Illinois 60154-2796
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USER NAME -	DESIGNED - MK/SBC	REVISED -
PLOT SCALE -	DRAWN - MK/LEV	REVISED -
PLOT DATE -	CHECKED - SBC/JG/MV	REVISED -
	DATE - 11-30-09	REVISED -



**STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION**

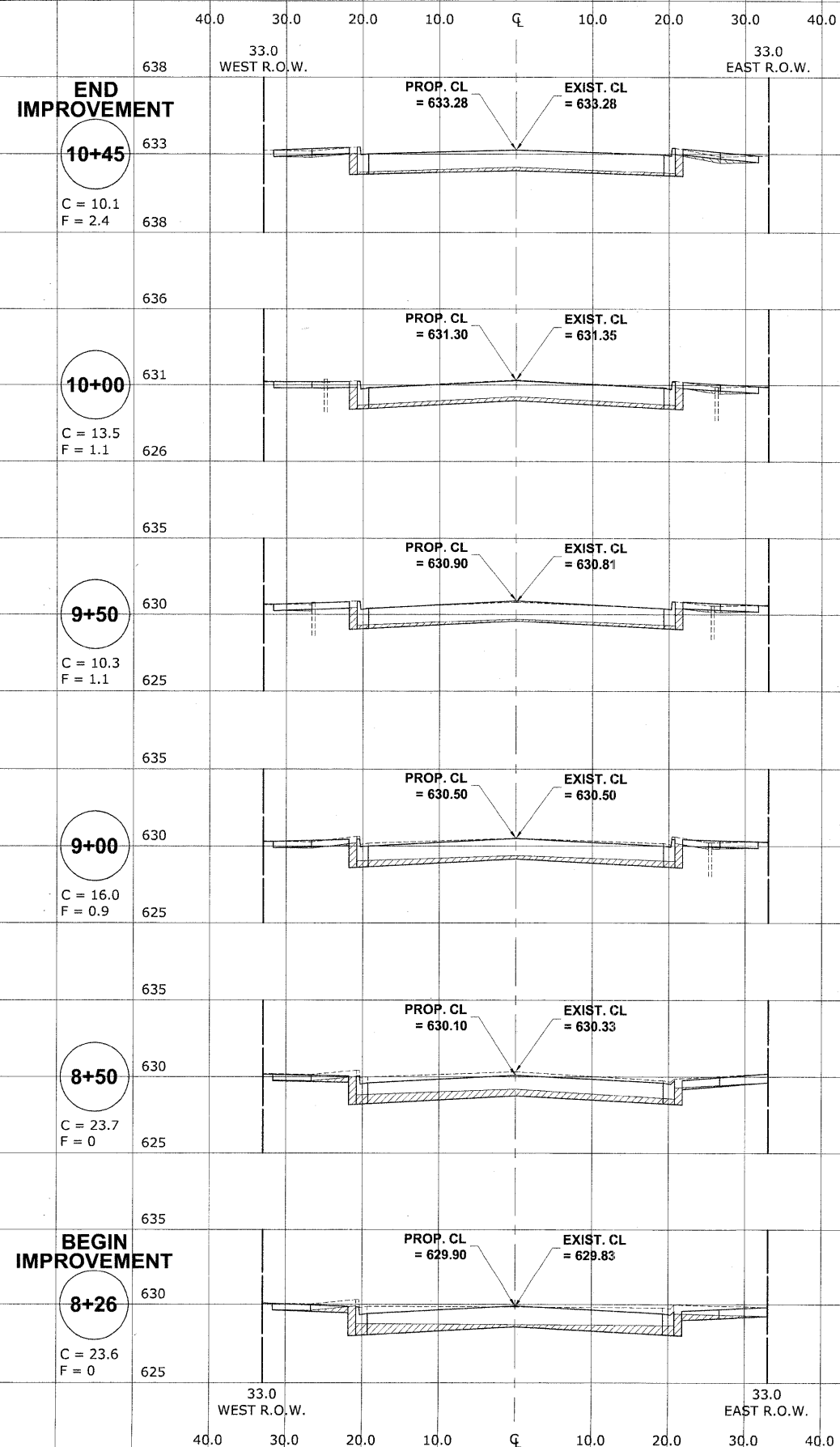
**STATION CROSS SECTIONS
ST. CHARLES ROAD**

SCALE: 1"=10'H/5V. SHEET NO. 12 OF 12 SHEETS STA. 55+00 TO STA. 58+40

F.A.U. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
1397	09-00129-00-PV	COOK	103	102
CONTRACT NO. 63428			FED. AID PROJECT M-9003 (267)	
(BOOK NOS. 1579, 1583, 1589) E.H.E PROJECT NO. 565-08-29001				

CROSS SECTION LEGEND

C = CUT (SQ. FT.) 
 F = FILL (SQ. FT.) 



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9123 Riverside Road
 Westchester, Illinois 60591-2780
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 Fax: 708/698-1232

USER NAME -	DESIGNED - MK/SBC	REVISED -
PLOT SCALE -	DRAWN - MK/LEV	REVISED -
PLOT DATE -	CHECKED - SBC/JGMV	REVISED -
	DATE - 11-30-09	REVISED -

**STATE OF ILLINOIS
 DEPARTMENT OF TRANSPORTATION**

**STATION CROSS SECTIONS
 9th AVENUE**

SCALE: 1"=10'H/5V. SHEET NO. 1 OF 1 SHEETS STA. 8+00 TO STA. 10+45

F.A.U. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
1397	09-00129-00-PV	COOK	103	103
CONTRACT NO. 63428				
FED. ROAD DIST. NO. 1 ILLINOIS			FED. AID PROJECT M-9003 (267)	
(BOOK NOS. 1579, 1583, 1589) E.H.E PROJECT NO. 565-08-29001				