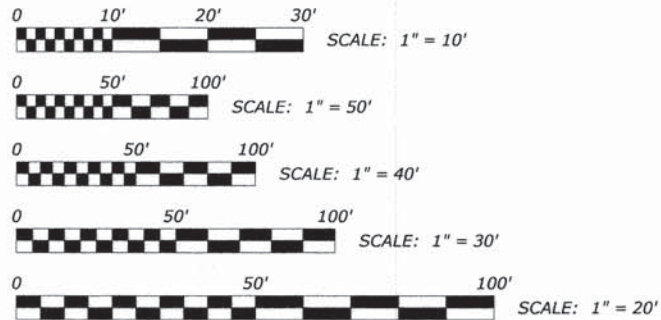


FOR INDEX OF SHEETS SEE SHEET NO. 2

TRAFFIC DATA

2010 ADT = 37,100
 POSTED SPEED LIMIT: 30 MPH
 DESIGN SPEED LIMIT: 30 MPH
 ARTERIAL

PROJECT LOCATED IN
 THE VILLAGE OF BROADVIEW



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.

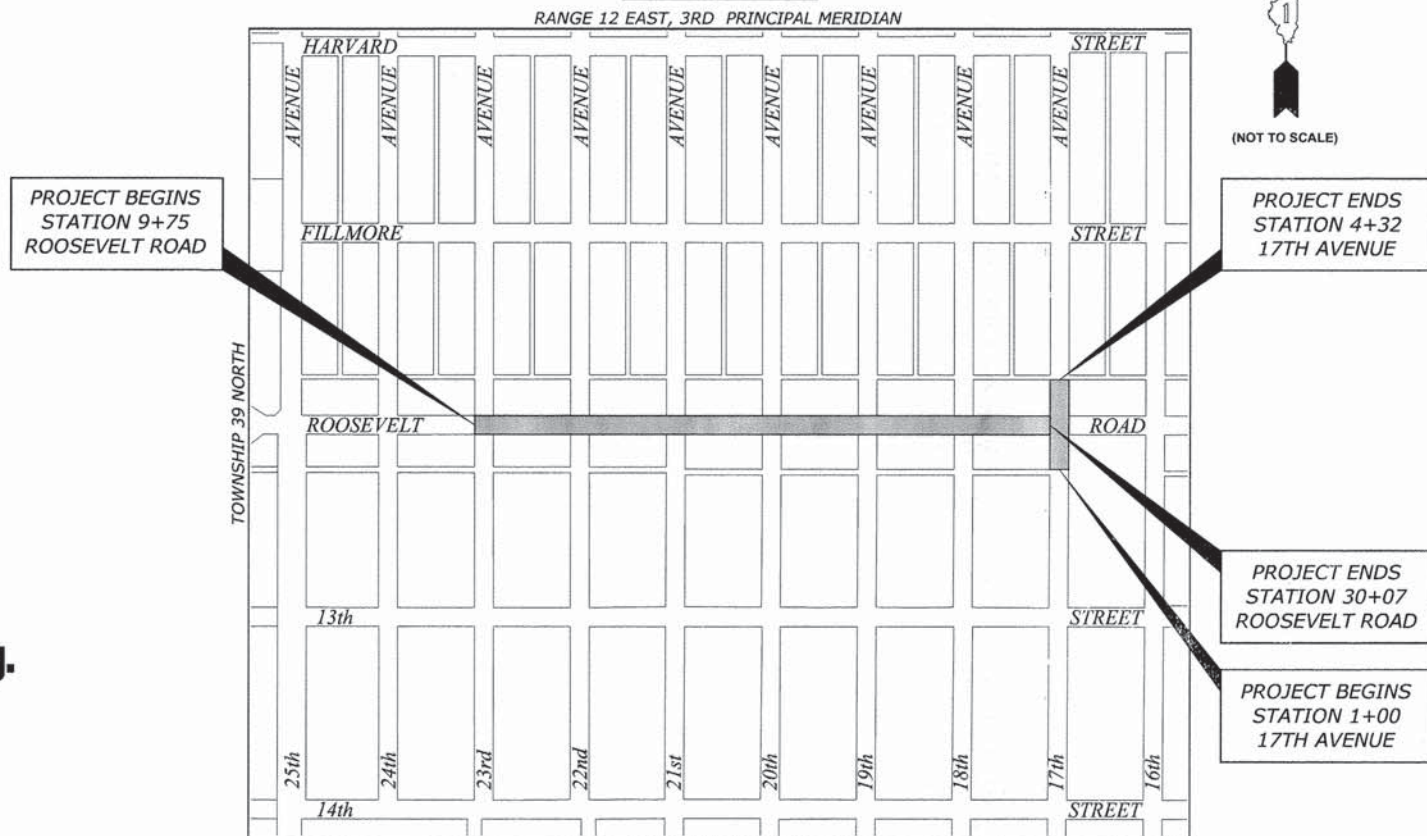


**Know what's below.
 Call before you dig.**

CONTRACT NO. **63768**

**STATE OF ILLINOIS
 DEPARTMENT OF TRANSPORTATION
 DIVISION OF HIGHWAYS
 PLANS FOR PROPOSED
 FEDERAL AID HIGHWAY
 FAP 347 (ROOSEVELT ROAD)
 23RD AVENUE TO 17TH AVENUE
 RECONSTRUCTION OF PARKING LANE, CURB AND GUTTER,
 SIDEWALK, DRAINAGE AND LIGHTING
 VILLAGE OF BROADVIEW
 SECTION 12-00079-00-SW
 PROJECT M-4003(114)
 COOK COUNTY
 C-91-048-13**

LOCATION MAP



SECTIONS 15 AND 22
 MAP SCALE : NONE
PROVISO TOWNSHIP

- AREA OF IMPROVEMENT
 GROSS LENGTH OF PROJECT = 2,364 FT. = 0.448 MI.
 NET LENGTH OF PROJECT = 2,364 FT. = 0.448 MI.



(NOT TO SCALE)

ROUTE NO.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
FAP 567	12-00079-00-SW	COOK	61	1
ILLINOIS PROJECT			47	62
CONTRACT NO. 63768				



LOCATION OF SECTION
 INDICATED THIS:

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

APPROVED: 12-16-13 2013
 VILLAGE OF BROADVIEW, PRESIDENT

PASSED: DEC 26 2013
 DISTRICT 1 ENGINEER OF LOCAL ROADS & STREETS

RELEASING FOR BID
 BASED ON LIMITED
 REVIEW: DECEMBER 26, 2013
 DEPUTY DIRECTOR OF HIGHWAYS,
 REGION 1 ENGINEER

PRINTED BY THE AUTHORITY OF THE STATE OF ILLINOIS



SIGNED: 12-16-13
 DATE: 12-16-13 LICENSE EXPIRES: 11/30/15

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

E.H.E. NO. 120-10-01601

ACCESS

THE CONTRACTOR WILL BE REQUIRED TO MAINTAIN INGRESS AND EGRESS FOR EMERGENCY VEHICLES AT ALL TIMES DURING THE CONSTRUCTION PERIOD.

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 BROADVIEW, 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 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 IN ACCORDANCE WITH ARTICLE LR 105.

ADJUSTMENTS REQUIRED BY UTILITY COMPANIES WILL BE PERFORMED BY THE COMPANY INVOLVED OR ITS CONTRACTOR, BUT WILL BE COORDINATED BY GENERAL 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.

STORM SEWER

THE VERTICAL AND HORIZONTAL CLEARANCES BETWEEN WATER MAINS AND PROPOSED OR EXISTING STORM SEWERS SHALL CONFORM TO THE REQUIREMENTS OF SECTIONS 41-1.02A THROUGH 41-1.02D OF THE "STANDARD SPECIFICATIONS FOR WATER & SEWER MAIN CONSTRUCTION IN ILLINOIS".

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 BROADVIEW AND BE SALVAGED. THE CONTRACTOR IS TO DELIVER FRAMES AND LIDS TO THE VILLAGE OF BROADVIEW PUBLIC WORKS YARD LOCATED AT 2734 SOUTH 9TH AVENUE.

FORMS FOR CONCRETE SIDEWALKS, DRIVEWAYS, PAVEMENT, AND GUTTER FLAGS

A 2" X 6" BOARD WILL BE USED AS A FORM FOR ALL SIDEWALKS TO BE INSTALLED FIVE INCHES (5") IN THICKNESS. A 2" X 8" BOARD WILL BE USED AS A FORM FOR ALL DRIVEWAYS TO BE INSTALLED SEVEN INCHES (7") IN THICKNESS. A 2" X 10" BOARD WILL BE USED AS THE FORM FOR ALL PAVEMENTS TO BE INSTALLED EIGHT INCHES (8") IN THICKNESS. A 2" X 12" BOARD WILL BE USED AS THE FORM FOR THE FACE OF THE GUTTER FLAGS TO BE INSTALLED TEN INCHES (10") IN THICKNESS. ALL FORMS MUST BE OF A MINIMUM HEIGHT OF THE PROPOSED THICKNESS OF THE RESPECTIVE CONCRETE ITEMS TO BE INSTALLED.

EPOXY COATING ON REINFORCEMENT

ALL DOWEL BARS AND TIE BARS IN PAVEMENT, CURB, AND COMBINATION CURB AND GUTTER SHALL BE EPOXY COATED.

MAINTENANCE OF SEWER FLOWS

THE CONTRACTOR SHALL CONDUCT HIS OPERATIONS SO AS TO MAINTAIN AT ALL TIMES FLOWS THROUGH EXISTING STORM, SANITARY, AND COMBINED 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 RESPECTIVE SEWER PAY ITEMS. 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, COMED, AND THE NICOR GAS COMPANY, WHICH ARE TO BE ADJUSTED BY THE APPROPRIATE UTILITY FORCE.

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 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.

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 RESPECTIVE SEWER PAY ITEMS.

SAW CUTTING

THE CONTRACTOR SHALL SAW CUT ASPHALT PAVEMENT AND CONCRETE 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. THE PRICE OF SAW CUTTING, AS NOTED ABOVE, SHALL BE INCLUDED IN THE PARTICULAR PAY ITEMS.

PROPOSED STRUCTURES

THE CONTRACTOR SHALL NOT ORDER PROPOSED STRUCTURES UNTIL A JULIE REQUEST HAS BEEN EXECUTED AND THE ENGINEER HAS BEEN NOTIFIED BY THE CONTRACTOR OF ANY CONFLICTS.

ITEMS TO BE SALVAGED

WHERE SPECIFIED ON THE PLANS OR AS DIRECTED BY THE ENGINEER, EXISTING FRAMES, VALVE BOXES, FIRE HYDRANTS, AND OTHER CASTINGS ARE TO BE REMOVED BY THE CONTRACTOR TO COMPLETE THE WORK. THESE ITEMS ARE TO BE COLLECTED AND DELIVERED BY THE CONTRACTOR TO THE OWNER AT ITS PUBLIC WORKS FACILITY. THIS ITEM WILL NOT BE PAID FOR SEPARATELY BUT WILL BE INCLUDED IN THE UNIT PRICE FOR THE VARIOUS STORM SEWER STRUCTURES IN THE CONTRACT.

NOTIFICATION OF RESIDENTS

THE CONTRACTOR WILL BE RESPONSIBLE FOR PROVIDING WRITTEN NOTICE TO ALL RESIDENCES AND/OR PLACES OF BUSINESS IN THE WORK ZONE AT LEAST ONE (1) WORKING DAY PRIOR TO PERFORMING ANY CONSTRUCTION ACTIVITY THAT WILL ELIMINATE OR INTERRUPT ACCESS TO THEIR PROPERTY. THE WRITTEN NOTICE SHALL BE APPROVED BY THE ENGINEER AND COORDINATED WITH THE VILLAGE PRIOR TO THE BEGINNING OF CONSTRUCTION.

TRAFFIC PROTECTION

CONTRACTOR'S ATTENTION IS DIRECTED TO THE FACT THAT WHEN WORK COMMENCES, THE CONTRACTOR SHALL ASSUME THE MAINTENANCE OF ANY PAVEMENT, SHOULDERS, DRAINAGE FACILITIES, TRAFFIC CONTROL SIGNS, PAVEMENT MARKINGS, AND OTHER APPURTENANCES ON ROADWAYS WITHIN THE LIMITS OF THE CONTRACT WHICH ARE TO BE USED BY THE PUBLIC DURING CONSTRUCTION AND TO RETAIN THIS MAINTENANCE RESPONSIBILITY UNTIL PROJECT COMPLETION. NEED FOR SNOW AND ICE CONTROL DURING THE CONSTRUCTION PERIOD SHALL BE ACCOMMODATED FOR BY OTHERS. ALL UNBALLASTED TYPE I & TYPE II BARRICADES SHALL HAVE TWO SANDBAGS ONE ACROSS EACH BOTTOM RAIL.

PLUGGING EXISTING SEWERS AND DRAINS

UNLESS OTHERWISE SPECIFIED, ABANDONED SEWERS AND DRAINS, AS DESIGNATED BY THE ENGINEER, SHALL BE PLUGGED AT BOTH ENDS WITH A MINIMUM OF TWO (2) FOOT LONG NON-SHRINK, MORTAR PLUG. 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.

STORM SEWER STRUCTURES

PRE-CAST REINFORCED CONCRETE SECTIONS FABRICATED IN ACCORDANCE WITH ASTM C-478 WILL BE USED ON ALL STRUCTURES AND RECONSTRUCTED STRUCTURES. FINAL ADJUSTMENT SHALL BE MADE USING PRE-CAST ADJUSTING RINGS. A MAXIMUM OF 6" OF ADJUSTING RINGS WILL BE PERMITTED. THE WORK DESCRIBED WITHIN THE SPECIAL PROVISION FOR FRAMES AND LIDS TO BE ADJUSTED (SPECIAL) SHALL BE PERFORMED WHEN INSTALLING A NEW STORM SEWER STRUCTURE. THIS ITEM WILL NOT BE PAID FOR SEPARATELY BUT WILL BE INCLUDED IN THE UNIT PRICE FOR THE VARIOUS PROPOSED STORM SEWER STRUCTURES IN THE CONTRACT.



◆ Civil Engineers
◆ Municipal Consultants
◆ Established 1911

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Fax: 708.965-4112

DESIGNED -	JGG	REVISED -
DRAWN -	MK, DMM	REVISED -
CHECKED -	JGG	REVISED -
DATE -	12/16/13	REVISED -

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

GENERAL NOTES

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

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
567	12-00079-00-SW	COOK	61	3
FIELD BOOK NO.:		CONTRACT NO. 63768		
FED. ROAD DIST. NO. 1		ILLINOIS FED. AID PROJECT		

SUMMARY OF QUANTITIES

CODE	PAY ITEM DESCRIPTION	UNIT	TOTAL QUANTITY	CONST. TYPE CODE RECONSTRUCT 0004 80% FEDERAL 20% LOCAL
20100210	TREE REMOVAL (OVER 15 UNIT DIAMETER)	UNIT	140	140
* 20101100	TREE TRUNK PROTECTION	EACH	3	3
* 20101200	TREE ROOT PRUNING	EACH	3	3
~ 20200100	EARTH EXCAVATION	CU YD	500	500
~ 20800150	TRENCH BACKFILL	CU YD	300	300
~ * 21101615	TOPSOIL FURNISH AND PLACE, 4"	SQ YD	100	100
* 25000400	NITROGEN FERTILIZER NUTRIENT	POUND	2	2
* 25000500	PHOSPHORUS FERTILIZER NUTRIENT	POUND	2	2
* 25000600	POTASSIUM PERTILIZER NUTRIENT	POUND	2	2
* 25200100	SODDING	SQ YD	100	100
~ 28000510	INLET FILTERS	EACH	53	53
~ 30300112	AGGREGATE SUBGRADE IMPROVEMENT 12"	SQ YD	3,300	3,300
~ 35102300	AGGREGATE BASE COURSE, TYPE B 11"	SQ YD	600	600
~ 35300300	PORTLAND CEMENT CONCRETE BASE COURSE 8"	SQ YD	3,300	3,300
40201000	AGGREGATE FOR TEMPORARY ACCESS	TON	2,500	2,500
40600100	BITUMINOUS MATERIALS (PRIME COAT)	GALLON	400	400
40600300	AGGREGATE (PRIME COAT)	TON	20	20
40600635	LEVELING BINDER (MACHINE METHOD), N70	TON	300	300
40600982	HOT-MIX ASPHALT SURFACE REMOVAL - BUTT JOINT	SQ YD	800	800
40603340	HOT-MIX ASPHALT SURFACE COURSE, MIX D, N70	TON	600	600
~ 40800050	INCIDENTAL HOT-MIX ASPHALT SURFACING	TON	600	600
~ 42101300	PROTECTIVE COAT	SQ YD	6,800	6,800
~ 42300400	PORTLAND CEMENT CONCRETE DRIVEWAY PAVEMENT, 8 INCH	SQ YD	80	80
~ 42400200	PORTLAND CEMENT CONCRETE SIDEWALK, 5 INCH	SQ FT	53,000	53,000

* DENOTES SPECIALTY ITEM

~ DENOTES THAT A SPECIAL PROVISION HAS BEEN PROVIDED

SUMMARY OF QUANTITIES

CODE	PAY ITEM DESCRIPTION	UNIT	TOTAL QUANTITY	CONST. TYPE CODE RECONSTRUCT 0004 80% FEDERAL 20% LOCAL
~ 42400800	DETECTABLE WARNINGS	SQ FT	300	300
~ 44000100	PAVEMENT REMOVAL	SQ YD	3,300	3,300
~ 44000200	DRIVEWAY PAVEMENT REMOVAL	SQ YD	140	140
~ 44000500	COMBINATION CURB AND GUTTER REMOVAL	FOOT	4,400	4,400
~ 44000600	SIDEWALK REMOVAL	SQ FT	49,000	49,000
44213204	TIE BARS 3/4"	EACH	2,200	2,200
~ * 56103000	DUCTILE IRON WATER MAIN 6"	FOOT	60	60
~ * 56400500	FIRE HYDRANTS TO BE REMOVED	EACH	6	6
~ * 56400820	FIRE HYDRANT WITH AUXILIARY VALVE AND VALVE BOX	EACH	6	6
~ * 56500600	DOMESTIC WATER SERVICE BOXES TO BE ADJUSTED	EACH	10	10
~ 60255500	MANHOLES TO BE ADJUSTED	EACH	1	1
~ 60265700	VALVE VAULTS TO BE ADJUSTED	EACH	10	10
~ 60406000	FRAMES AND LIDS, TYPE 1, OPEN LID	EACH	5	5
~ 60406100	FRAMES AND LIDS, TYPE 1, CLOSED LID	EACH	25	25
~ 60500050	REMOVING CATCH BASINS	EACH	10	10
~ 60500060	REMOVING INLETS	EACH	25	25
~ 60600605	CONCRETE CURB, TYPE B	FOOT	150	150
~ * 66900200	NON-SPECIAL WASTE DISPOSAL	CU YD	1,150	1,150
* 66900450	SPECIAL WASTE PLANS AND REPORTS	L SUM	1	1
* 66900530	SOIL DISPOSAL ANALYSIS	EACH	5	5
67100100	MOBILIZATION	L SUM	1	1
70102620	TRAFFIC CONTROL AND PROTECTION, STANDARD 701501	L SUM	1	1
70102625	TRAFFIC CONTROL AND PROTECTION, STANDARD 701606	L SUM	1	1
70102640	TRAFFIC CONTROL AND PROTECTION, STANDARD 701801	L SUM	1	1

* DENOTES SPECIALTY ITEM

~ DENOTES THAT A SPECIAL PROVISION HAS BEEN PROVIDED

Drawing file: W:\Projects\12010016 - Roosevelt Road Streetscape\Rosevelt Rd\4_Summary of Quantities.dwg Dec 20, 2013 - 8:36am



◆ Civil Engineers
◆ Municipal Consultants
◆ Established 1911

9933 Roosevelt Road
Woodstock, Illinois 60154-5790
Phone: 708/965-0390
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DESIGNED -	JGG	REVISED -	
DRAWN -	MK, DMM	REVISED -	
CHECKED -	JGG	REVISED -	
DATE -	12/16/13	REVISED -	

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

SUMMARY OF QUANTITIES

SCALE: NONE SHEET NO. 1 OF 3 SHEETS STA. TO STA.

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
567	12-00079-00-SW	COOK	61	4
FIELD BOOK NO.:		CONTRACT NO. 63768		
FED. ROAD DIST. NO. 1 ILLINOIS FED. AID PROJECT				

E.H.E. PROJECT NO. 120-10-01602

SUMMARY OF QUANTITIES

CODE	PAY ITEM DESCRIPTION	UNIT	TOTAL QUANTITY	CONST.TYPE CODE RECONSTRUCT 0004 80% FEDERAL 20% LOCAL
* 72000100	SIGN PANEL - TYPE 1	SQ FT	200	200
* 72900100	METAL POST - TYPE A	FOOT	125	125
* 72900200	METAL POST - TYPE B	FOOT	80	80
* 78000200	THERMOPLASTIC PAVEMENT MARKING - LINE 4"	FOOT	2,500	2,500
* 78000400	THERMOPLASTIC PAVEMENT MARKING - LINE 6"	FOOT	650	650
* 78000600	THERMOPLASTIC PAVEMENT MARKING - LINE 12"	FOOT	125	125
* 78000650	THERMOPLASTIC PAVEMENT MARKING - LINE 24"	FOOT	200	200
~ * 80400100	ELECTRIC SERVICE INSTALLATION	EACH	1	1
~ * 80400200	ELECTRIC UTILITY SERVICE CONNECTION	L SUM	1	1
~ * 81028200	UNDERGROUND CONDUIT, GALVANIZED STEEL, 2" DIA.	FOOT	400	400
~ * 81603050	UNIT DUCT, 600V, 3-1C NO.6, 1/C NO.8 GROUND, (XLP-TYPE USE), 1" DIA. POLYETHYLENE	FOOT	4,000	4,000
~ * 81702400	ELECTRIC CABLE IN CONDUIT, 600V (XLP-TYPE USE) 3-1/C NO. 2	FOOT	160	160
* 82500335	LIGHTING CONTROLLER, PEDESTAL MOUNTED, 240VOLT, 100AMP	EACH	1	1
* 83600352	LIGHT POLE FOUNDATION, METAL, 11 1/2" BOLT CIRCLE, 8 5/8" X 6'	EACH	20	20
* 84200500	REMOVAL OF LIGHTING UNIT, SALVAGE	EACH	4	4
* 84200600	REMOVAL OF LIGHTING UNIT, NO SALVAGE	EACH	17	17
* 84200804	REMOVAL OF POLE FOUNDATION	EACH	21	21
* 84500110	REMOVAL OF LIGHTING CONTROLLER	EACH	1	1
~ * 84500130	REMOVAL OF LIGHTING CONTROLLER FOUNDATION	EACH	1	1
~ * 88600600	DETECTOR LOOP REPLACEMENT	FOOT	170	170
* 89502380	REMOVE EXISTING HANDHOLE	EACH	6	6
~ * A2000090	TREE, ACER X FREEMANII ARMSTRONG (ARMSTRONG FREEMAN MAPLE), 3" CALIPER, BALLED AND BURLAPPED	EACH	7	7
~ * A2003024	TREE, CELTIS OCCIDENTALIS PRAIRIE PRIDE (PRAIRIE PRIDE HACKBERRY), 3" CALIPER, BALLED AND BURLAPPED	EACH	8	8
~ * A2005024	TREE, GYMNOCLADUS DIOICUS (KENTUCKY COFFEETREE), 3" CALIPER, BALLED AND BURLAPPED	EACH	3	3

* DENOTES SPECIALTY ITEM

~ DENOTES THAT A SPECIAL PROVISION HAS BEEN PROVIDED

SUMMARY OF QUANTITIES

CODE	PAY ITEM DESCRIPTION	UNIT	TOTAL QUANTITY	CONST.TYPE CODE RECONSTRUCT 0004 80% FEDERAL 20% LOCAL
~ * A2008748	TREE, ULMUS X FRONTIER (FRONTIER ELM), 3" CALIPER, BALLED AND BURLAPPED, MATCHING HEADS	EACH	7	7
~ * C2C05824	SHRUB, RHUS AROMATICA GRO-LOW (GRO-LOW FRAGRANT SUMAC), 2' WIDTH, CONTAINER	EACH	168	168
~ * K0012990	PERENNIAL PLANTS, ORNAMENTAL TYPE, GALLON POT	UNIT	1	1
* K1003679	MULCH	CU YD	100	100
~ X0323389	STORM SEWER CONNECTION	EACH	21	21
~ X4401198	HOT-MIX ASPHALT SURFACE REMOVAL, VARIABLE DEPTH	SQ YD	800	800
~ X6022805	CATCH BASINS, TYPE A, 4' DIAMETER, TYPE 1 FRAME, OPEN LID, SPECIAL	EACH	13	13
~ X6022905	CATCH BASINS, TYPE A, 4' DIAMETER, TYPE 1 FRAME, CLOSED LID, SPECIAL	EACH	2	2
~ X6023202	INLETS, WITH TYPE 1 FRAME, OPEN LID, SPECIAL	EACH	36	36
~ X6023203	INLETS, WITH TYPE 1 FRAME, CLOSED LID, SPECIAL	EACH	3	3
~ X6026624	VALVE BOXES TO BE ADJUSTED (SPECIAL)	EACH	2	2
~ X6028000	MANHOLES TO BE RECONSTRUCTED (SPECIAL)	EACH	12	12
~ X6022900	CATCH BASINS TO BE RECONSTRUCTED (SPECIAL)	EACH	14	14
~ X6064200	COMBINATION CONCRETE CURB AND GUTTER, TYPE B-6.12 (SPECIAL)	FOOT	4,400	4,400
~ * X8140115	HANDHOLE TO BE ADJUSTED	EACH	16	16
~ * X8210425	LUMINAIRE, STREET LIGHTING, HIGH PRESSURE SODIUM VAPOR, 250 WATT, 240 VOLT	EACH	20	20
~ XX000541	EXPLORATORY EXCAVATION	CU YD	150	150
~ * XX003037	DUCTILE IRON FITTINGS AND ACCESSORIES	POUND	600	600
~ * XX004205	OUTSIDE DROP CONNECTION	EACH	6	6
~ * XX004533	SOIL PLANTING MIXTURE	CU YD	375	375
~ XX005195	COMBINED SEWER MANHOLE, 4'-DIAMETER TYPE 1 FRAME, CLOSED LID	EACH	1	1
~ XX005735	PLANTER CURB	FOOT	565	565
~ * XX005878	CAST IRON TREE GRATES	EACH	25	25
~ * XX006228	RESTRAINED JOINT 6"	EACH	30	30
~ * XX006834	ELECTRICAL CONNECTION TO EXISTING LIGHTING SYSTEM	EACH	3	3

Drawing file: W:\Projects\12010016 - Roosevelt Road Streetscape\00summary of quantities.dwg Dec 20, 2013 - 9:00am



Civil Engineers
Municipal Consultants
Established 1911

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 Worthen, Illinois 60154-2780
 Phone: 708/965-0380
 Fax: 708/965-1313

DESIGNED - JGG
 DRAWN - MK, DMM
 CHECKED - JGG
 DATE - 12/16/13

REVISED -
 REVISED -
 REVISED -
 REVISED -

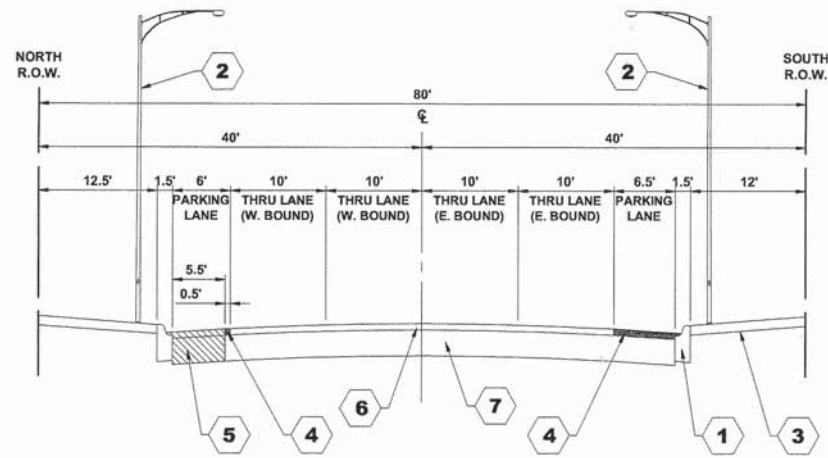
STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

SUMMARY OF QUANTITIES

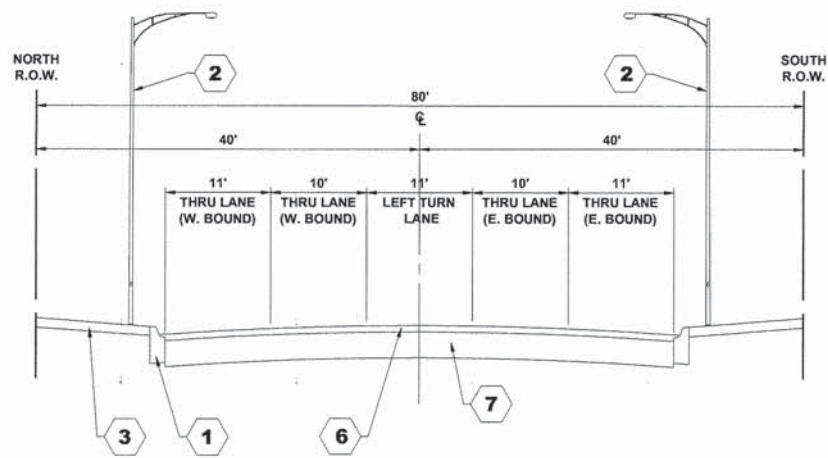
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F.A.P. RTE. 567	SECTION 12-00079-00-SW	COUNTY COOK	TOTAL SHEETS 61	SHEET NO. 5
FIELD BOOK NO.:		CONTRACT NO. 63768		
FED. ROAD DIST. NO. 1 ILLINOIS FED. AID PROJECT				

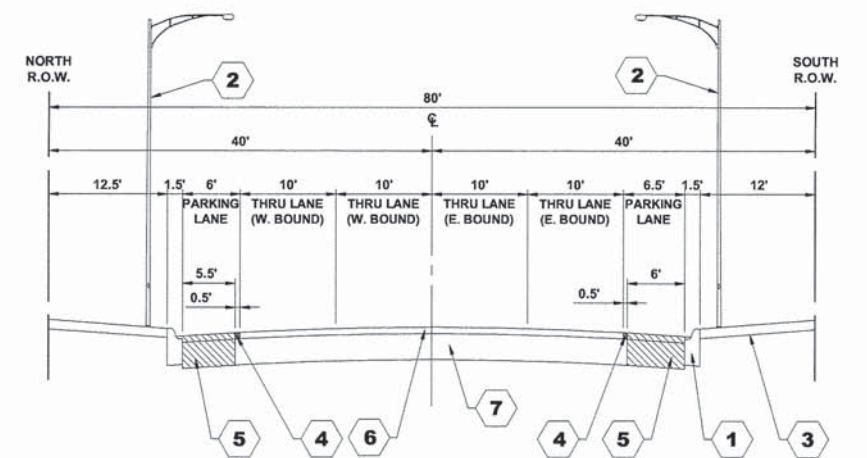
E.H.E. PROJECT NO. 120-10-01602



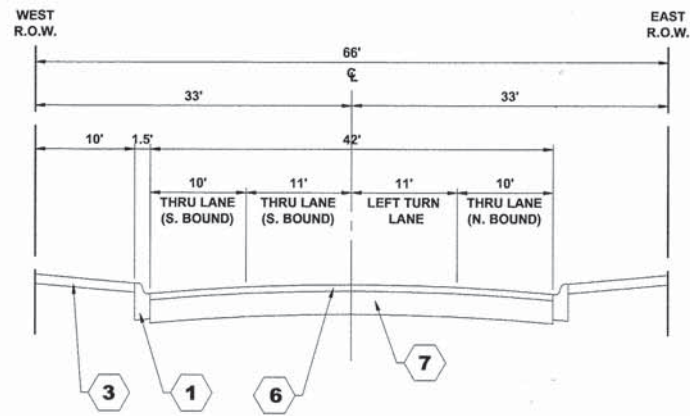
EXISTING TYPICAL SECTION
ROOSEVELT ROAD
(STATION 9+75 TO STATION 27+08)



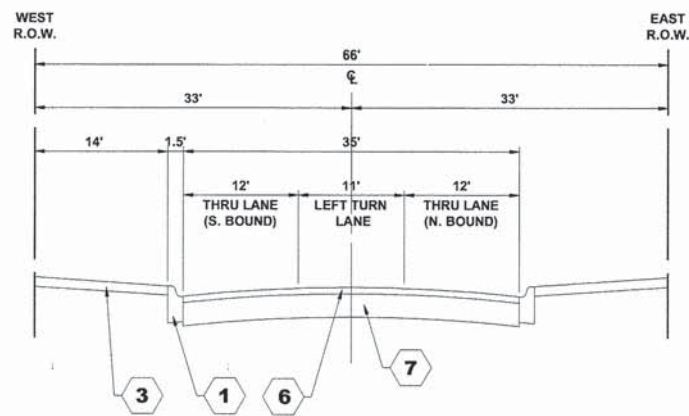
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ROOSEVELT ROAD
(STATION 27+08 TO STATION 30+07)



EXISTING TYPICAL SECTION
ROOSEVELT ROAD
(AT BUMP-OUTS)



EXISTING TYPICAL SECTION
17TH AVENUE
(STATION 1+00 TO STATION 2+73)



EXISTING TYPICAL SECTION
17TH AVENUE
(STATION 2+73 TO STATION 4+32)

EXISTING TYPICAL SECTION LEGEND

- 1 COMBINATION CURB & GUTTER REMOVAL AS NOTED ON PLANS
- 2 EXISTING LIGHT POLE
- 3 PORTLAND CEMENT CONCRETE SIDEWALK, DRIVEWAY, ASPHALT OR GRASS AS NOTED ON PLANS
- 4 HOT-MIX ASPHALT SURFACE REMOVAL (VARIABLE DEPTH)
- 5 PAVEMENT REMOVAL
- 6 HOT-MIX ASPHALT (2" - 4")
- 7 PORTLAND CEMENT CONCRETE BASE COURSE (8" - 12")

Drawing File: W:\Projects\12010016 - Roosevelt Road Streetscape\Roosevelt Rd\Typicals.dwg Dec 16, 2013 - 10:53am



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 9933 Roosevelt Road
 Westchester, Illinois 60154-2798
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 Fax: 708/965-1212

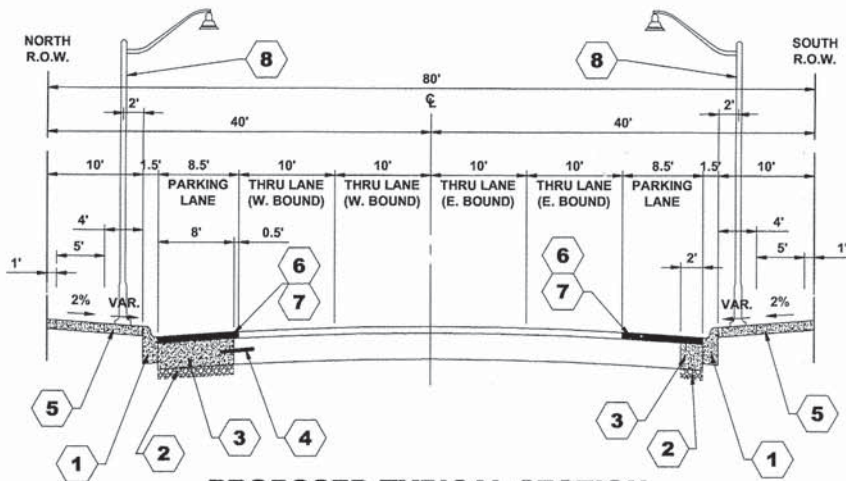
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DRAWN -	MK, DMM	REVISED -	
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DATE -	12/16/13	REVISED -	

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

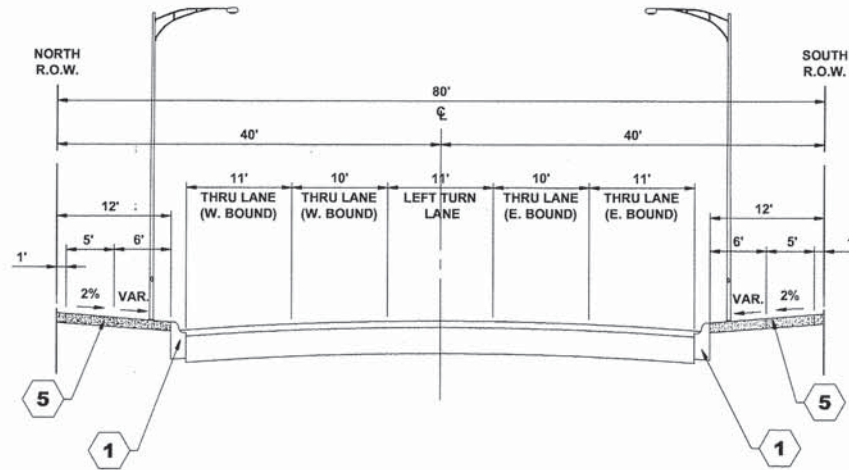
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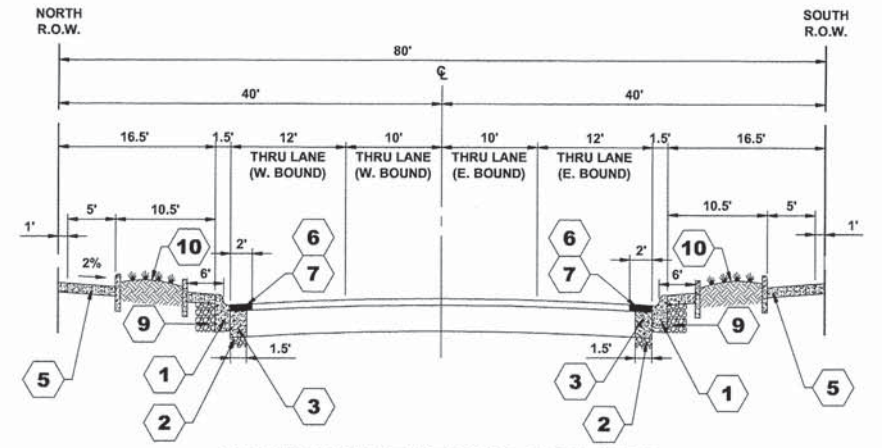
F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
567	12-00079-00-SW	COOK	61	7
FIELD BOOK NO.:		CONTRACT NO. 63768		
FED. ROAD DIST. NO. 1		ILLINOIS FED. AID PROJECT		



PROPOSED TYPICAL SECTION
ROOSEVELT ROAD
(STATION 9+75 TO STATION 27+08)



PROPOSED TYPICAL SECTION
ROOSEVELT ROAD
(STATION 27+08 TO STATION 30+07)



PROPOSED TYPICAL SECTION
ROOSEVELT ROAD
(AT BUMP-OUTS)

PROPOSED TYPICAL SECTION LEGEND

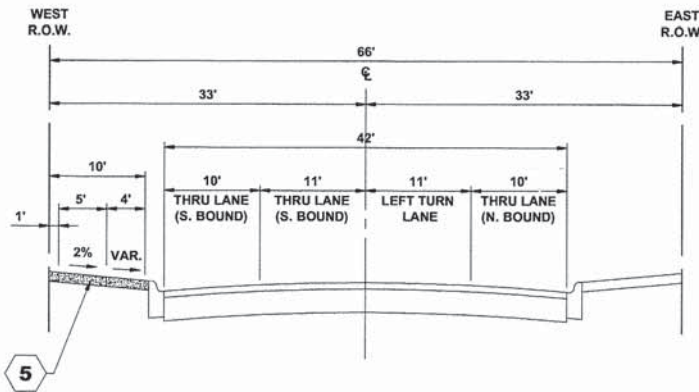
- 1** COMBINATION CONCRETE CURB AND GUTTER, TYPE B-6.12 (SPECIAL)
- 2** AGGREGATE SUBGRADE IMPROVEMENT, 12"
- 3** PORTLAND CEMENT CONCRETE BASE COURSE, 8"
- 4** TIE BARS 3/4" (EPOXY COATED, 3/4" DIA., 18" LONG DEFORMED TIE BARS @ 24" O.C.)
- 5** PORTLAND CEMENT CONCRETE SIDEWALK, 5 INCH
- 6** LEVELING BINDER (MACHINE METHOD), N70 (IL 9.5mm), 1 1/2"
- 7** HOT-MIX ASPHALT SURFACE COURSE, MIX D, N70, 2"
- 8** ORNAMENTAL LIGHT POLE, ALUMINUM WITH CONTEMPORARY ARM AND LUMINAIRE
- 9** AGGREGATE BASE COURSE, TYPE B, 11"
- 10** TYPICAL RAISED PLANTER (AS INDICATED ON PLAN SHEETS)

HOT-MIX ASPHALT (HMA) MIXTURE REQUIREMENTS

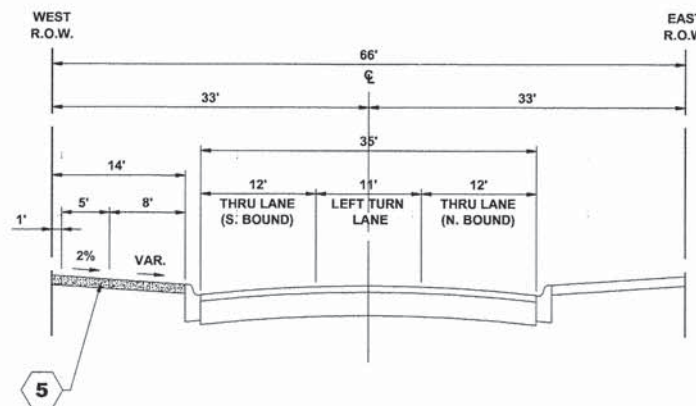
ITEM	VOIDS
HOT-MIX ASPHALT SURFACE COURSE, MIX D, N70 (IL 9.5mm), 2"	4% @ 70 GYR.
LEVELING BINDER (MACHINE METHOD), N70 (IL 9.5mm), 1 1/2"	4% @ 70 GYR.
INCIDENTAL HOT-MIX ASPHALT SURFACING HOT-MIX ASPHALT SURFACE COURSE, MIX D, N50 (IL 9.5mm), 3"	4% @ 50 GYR.

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

THE "AC-TYPE" FOR POLYMERIZED HMA MIXES SHALL BE "SBS/SBR 76-22" AND FOR NON-POLYMERIZED HMA THE "AC-TYPE" SHALL BE "PG 64-22" UNLESS MODIFIED BY DISTRICT ONE SPECIAL PROVISIONS. FOR "PERCENT OF RAP" SEE DISTRICT ONE SPECIAL PROVISION.



PROPOSED TYPICAL SECTION
17TH AVENUE
(STATION 1+00 TO STATION 2+73)



PROPOSED TYPICAL SECTION
17TH AVENUE
(STATION 2+73 TO STATION 4+32)

Dec 19, 2013 - 2:29pm

Drawing file: \\Projects\12010016 - Roosevelt Road Streetscape\Roosevelt_Rd\Typicals.dwg



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 Fax: 708/965-1212

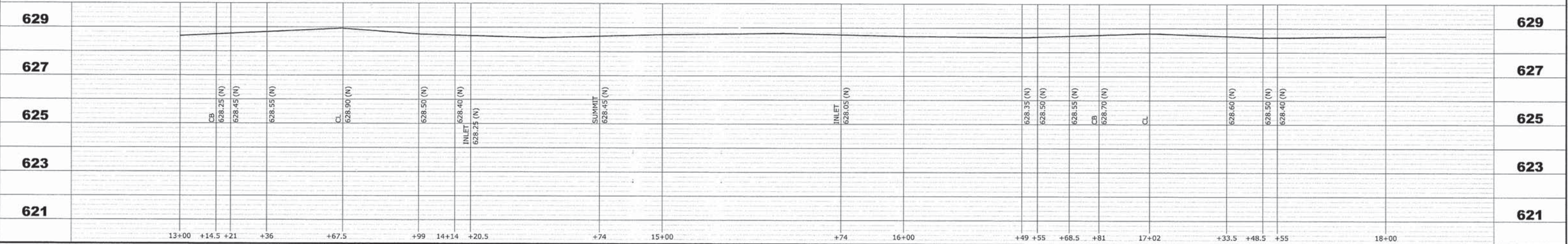
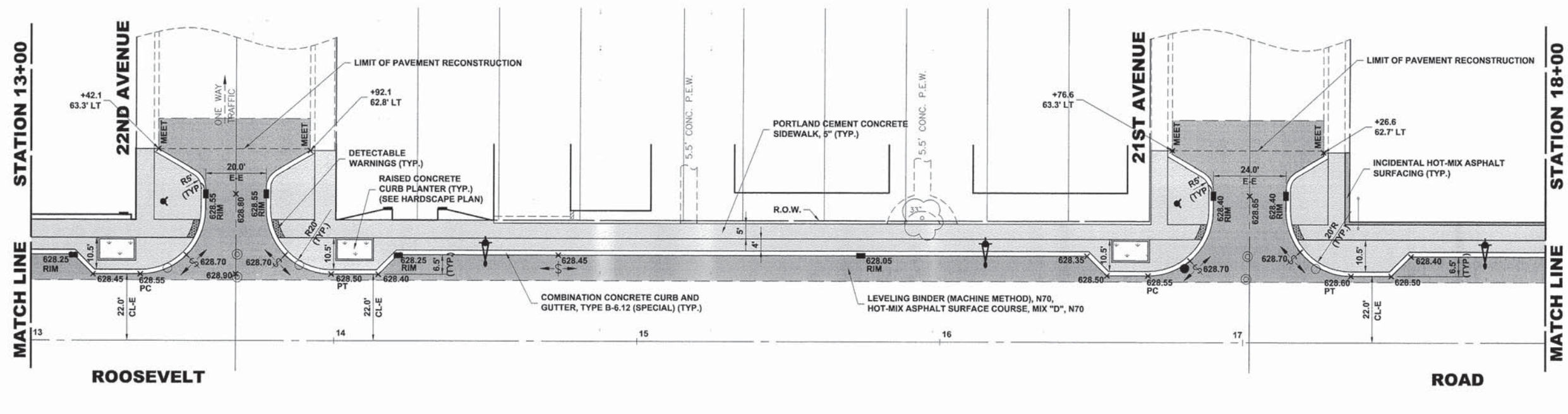
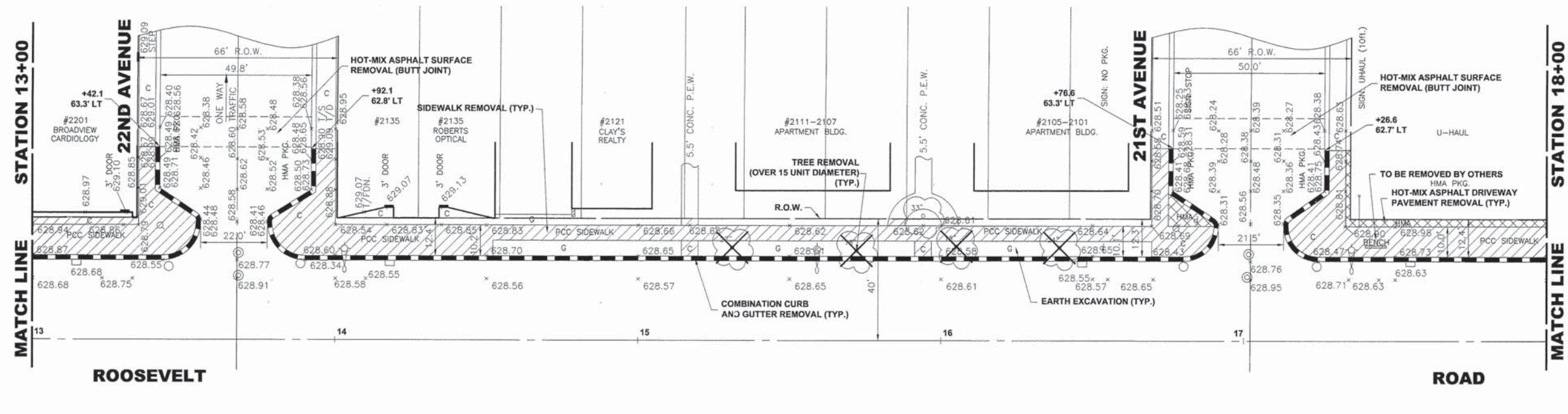
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DRAWN -	MK, DMM	REVISED -	
CHECKED -	JGG	REVISED -	
DATE -	12/16/13	REVISED -	

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

PROPOSED TYPICAL SECTIONS

SCALE: NOT TO SCALE | SHEET NO. 2 OF 2 SHEETS | STA. - TO STA. -

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
567	12-00079-00-SW	COOK	61	8
FIELD BOOK NO. :		CONTRACT NO. 63768		
FED. ROAD DIST. NO. 1		ILLINOIS FED. AID PROJECT		



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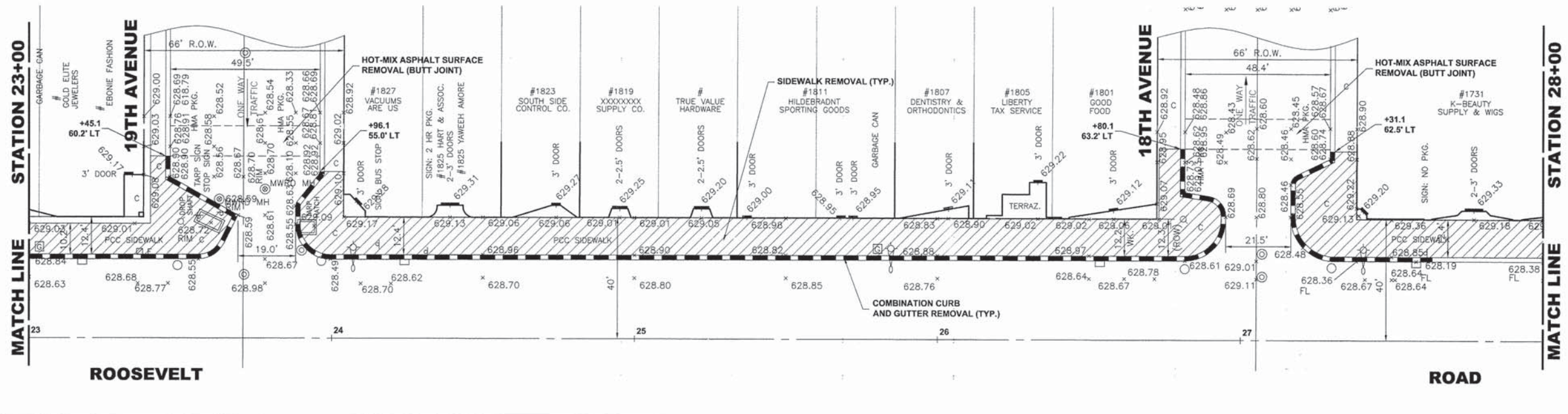
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DRAWN -	MK, DMM	REVISED -	
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DATE -	12/16/13	REVISED -	

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

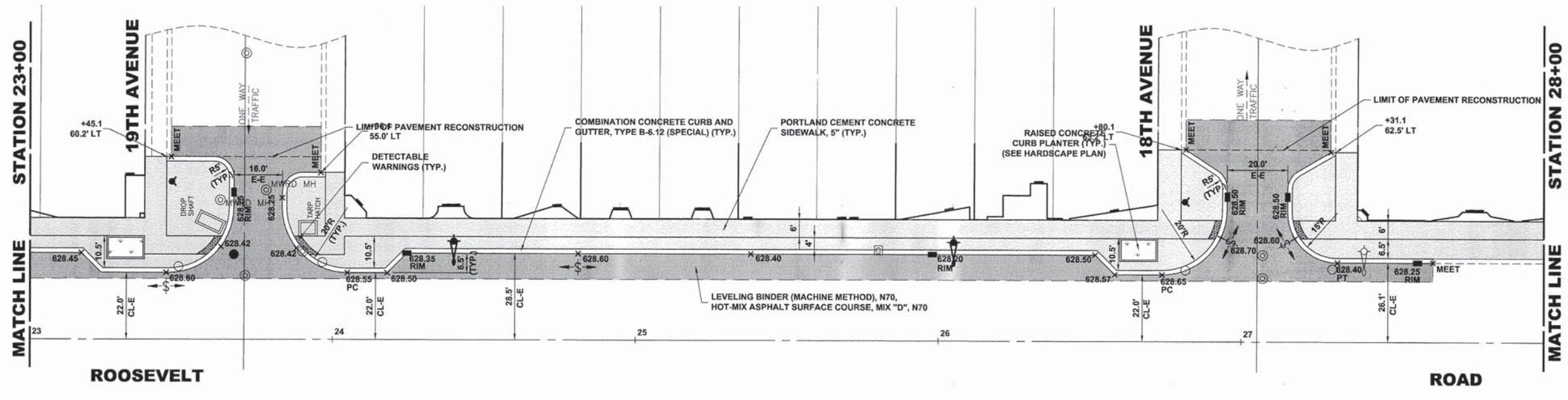
ROOSEVELT ROAD
PLAN AND PROFILE (NORTH SIDE)

SCALE: 1"=20'H, V.V. SHEET NO. 2 OF 11 SHEETS STA. 13+00 TO STA. 18+00

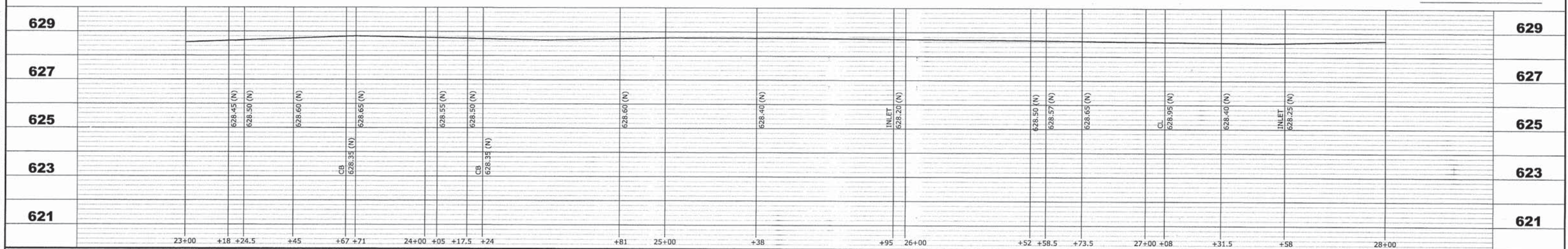
F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
567	12-00079-00-SW	COOK	61	10
FIELD BOOK NO. :		CONTRACT NO. 63768		
FED. ROAD DIST. NO. 1		ILLINOIS FED. AID PROJECT		



EXISTING TOPOGRAPHY



PROPOSED IMPROVEMENT



HANCOCK ENGINEERING
 Civil Engineers
 Municipal Consultants
 Established 1911

9933 Roosevelt Road
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 Phone: 708/965-4380
 Fax: 708/965-4312

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DRAWN -	MK, DMM	REVISED -	
CHECKED -	JGG	REVISED -	
DATE -	12/16/13	REVISED -	

**STATE OF ILLINOIS
 DEPARTMENT OF TRANSPORTATION**

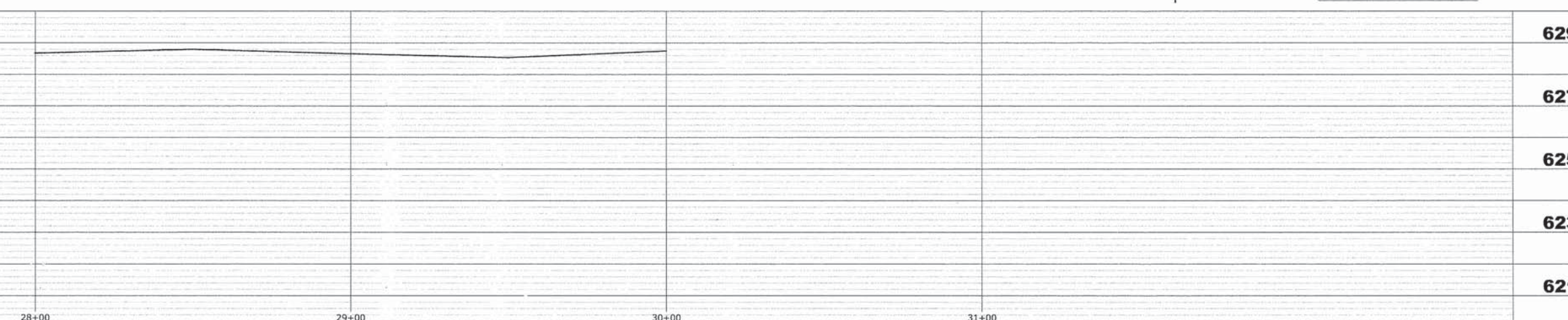
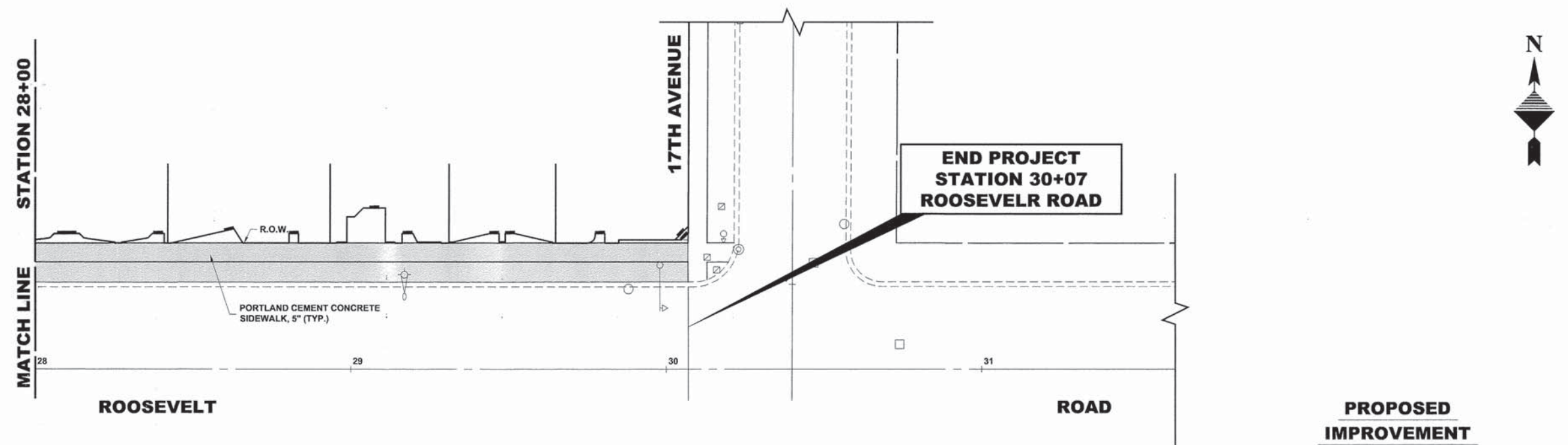
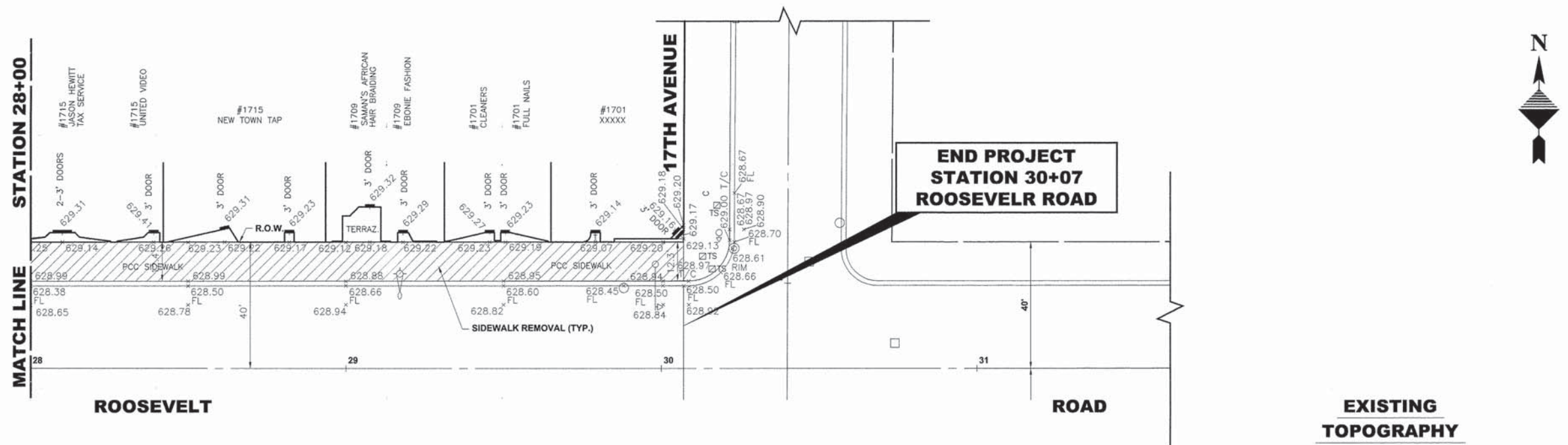
**ROOSEVELT ROAD
 PLAN AND PROFILE (NORTH SIDE)**

SCALE: 1"=20'H./2'V. SHEET NO. 4 OF 11 SHEETS STA. 23+00 TO STA. 28+00

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
567	12-00079-00-SW	COOK	61	12
FIELD BOOK NO.:		CONTRACT NO. 63768		
FED. ROAD DIST. NO. 1 ILLINOIS FED. AID PROJECT				

E.H.E. PROJECT NO. 120-10-01602

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Drawing file: w:\Projects\20100016 - Roosevelt Road Streetscape\Roosevelt_Rd\Roosevelt_Rd.dwg Dec 16, 2013 - 10:56am

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DRAWN -	MK, DMM	REVISED -	
CHECKED -	JGG	REVISED -	
DATE -	12/16/13	REVISED -	

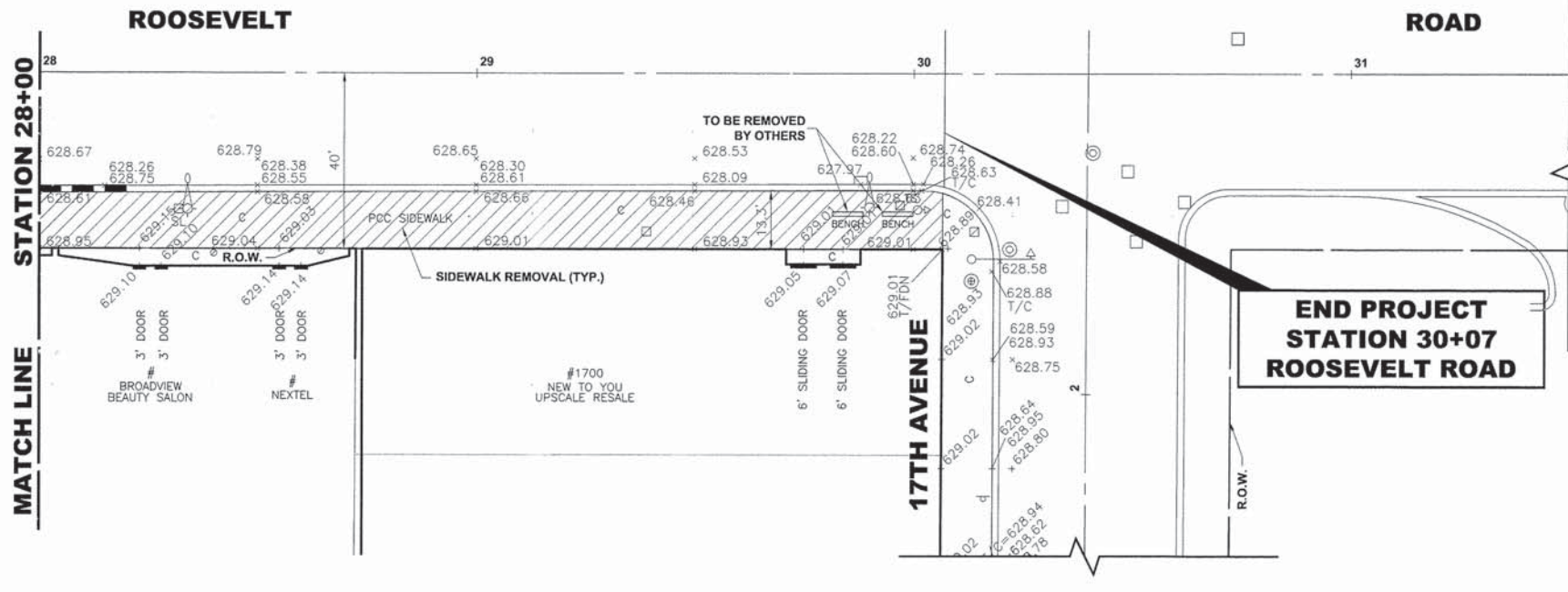
**STATE OF ILLINOIS
 DEPARTMENT OF TRANSPORTATION**

**ROOSEVELT ROAD
 PLAN AND PROFILE (NORTH SIDE)**

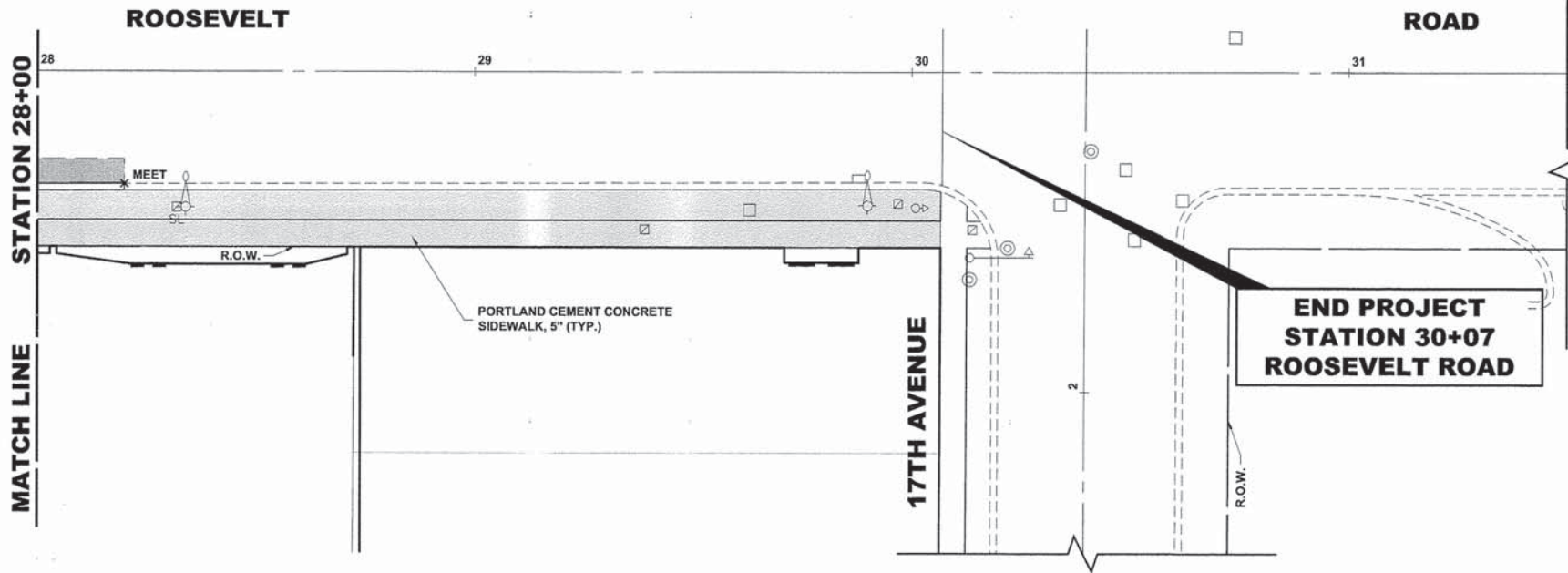
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F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
567	12-00079-00-SW	COOK	61	13
FIELD BOOK NO.:		CONTRACT NO. 63768		
FED. ROAD DIST. NO. 1		ILLINOIS FED. AID PROJECT		

E.H.F. PROJECT NO. 126-10-01602



EXISTING TOPOGRAPHY



PROPOSED IMPROVEMENT

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621		621

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5933 Roosevelt Road
 Wheeling, Illinois 60154-2780
 Phone: 708/965-0390
 Fax: 708/965-1212

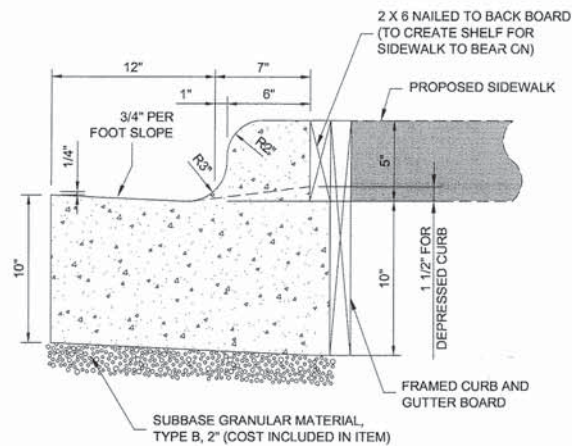
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DATE -	12/16/13	REVISED -	

**STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION**

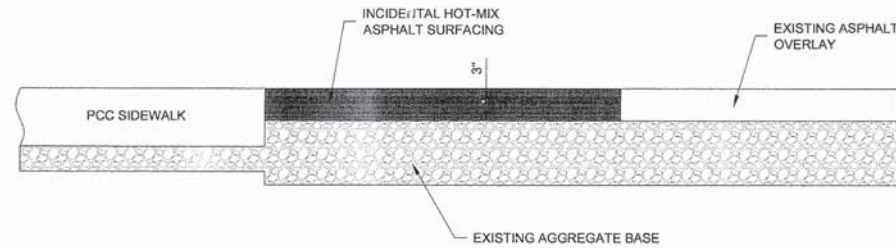
**ROOSEVELT ROAD
PLAN AND PROFILE (SOUTH SIDE)**

SCALE: 1"=20'H./2'V. SHEET NO. 10 OF 11 SHEETS STA. 23+00 TO STA. 30+07

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
567	12-00079-00-SW	COOK	61	18
FIELD BOOK NO. :		CONTRACT NO. 63768		
FED. ROAD DIST. NO. 1		ILLINOIS FED. AID PROJECT		



**COMBINATION CONCRETE CURB & GUTTER
TYPE B-6.12 (SPECIAL)**



INCIDENTAL HOT-MIX ASPHALT SURFACE 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 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.

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

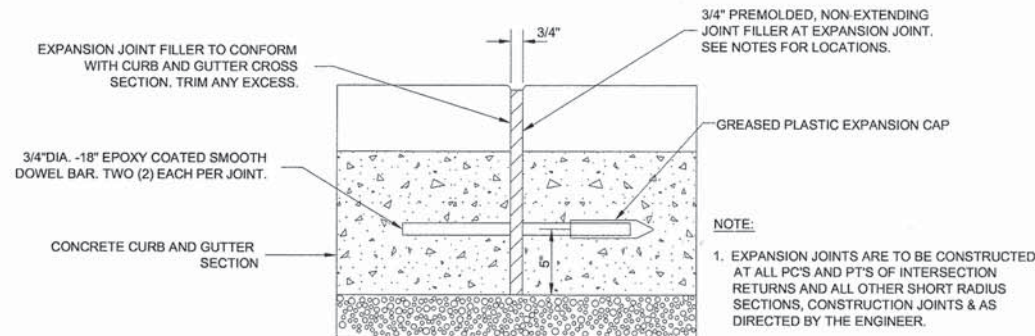
DEPRESSED CURB HEIGHT - THE HEIGHT OF THE DEPRESSED CURB SHALL BE 1 1/2" AT DRIVEWAYS. SEE IDOT STANDARD 424001-06 FOR HEIGHT AT SIDEWALK RAMP.

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.

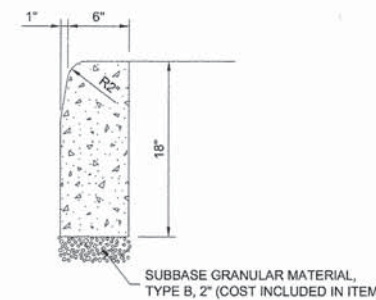
ALL EXPANSION JOINTS LOCATED IN THE CURB AND GUTTER SHALL HAVE TWO (2) THREE QUARTER INCH (3/4") DIAMETER, SMOOTH, ROUND, EPOXY COATED DOWEL BARS, EIGHTEEN INCHES (18") IN LENGTH, WITH GREASED PLASTIC END CAPS INSERTED TO ALLOW THE CURB AND GUTTER TO EXPAND AND CONTRACT LATERALLY. CONTRACTION JOINTS 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 IN THE RESPECTIVE ITEMS FOR CONCRETE INSTALLATION.

CURB AND GUTTER REMOVAL

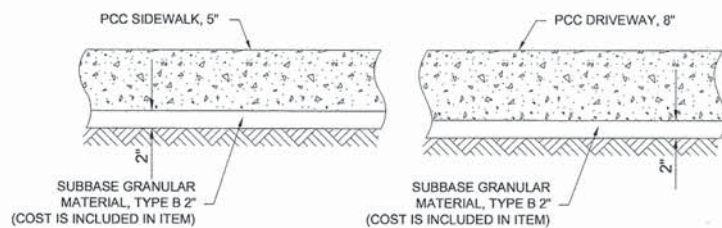
THE COSTS FOR REMOVAL OF ANY ASPHALT OVERLAY THAT EXTENDS INTO THE GUTTER PORTION OF THE CURB AND GUTTER WILL BE INCLUDED IN THE PRICE FOR COMBINATION CURB AND GUTTER REMOVAL.



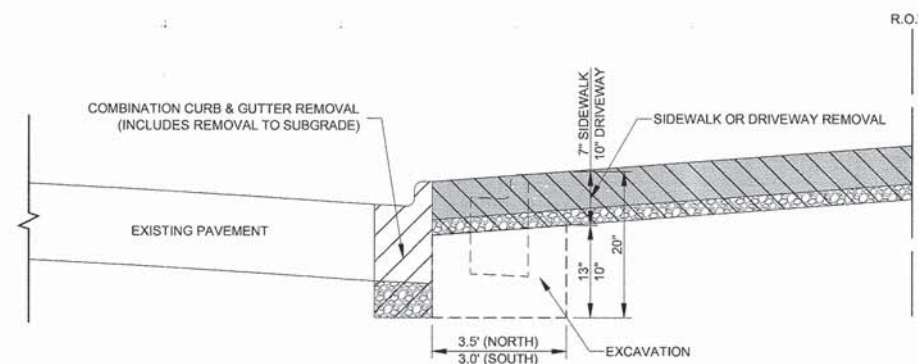
**TYPICAL CURB AND GUTTER
EXPANSION JOINT**



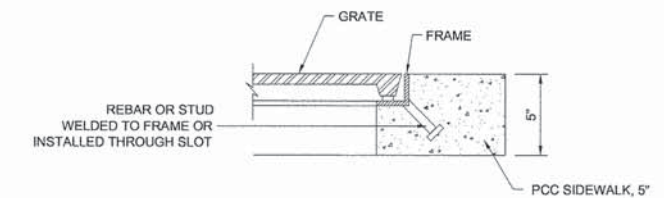
CONCRETE CURB, TYPE B



TYPICAL P.C.C. SIDEWALK AND DRIVEWAY



**EXCAVATION CROSS SECTION
ROOSEVELT ROAD**



TREE GRATE FRAME

Drawing file: W:\Projects\20100016 - Roosevelt Road Streetscape\Roosevelt Rd\RoadwayDetails.dwg Dec 16, 2013 - 11:01am



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Municipal Consultants
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9933 Roosevelt Road
Waukegan, Illinois 60154-2790
Phone: 708/965-0280
Fax: 708/965-1212

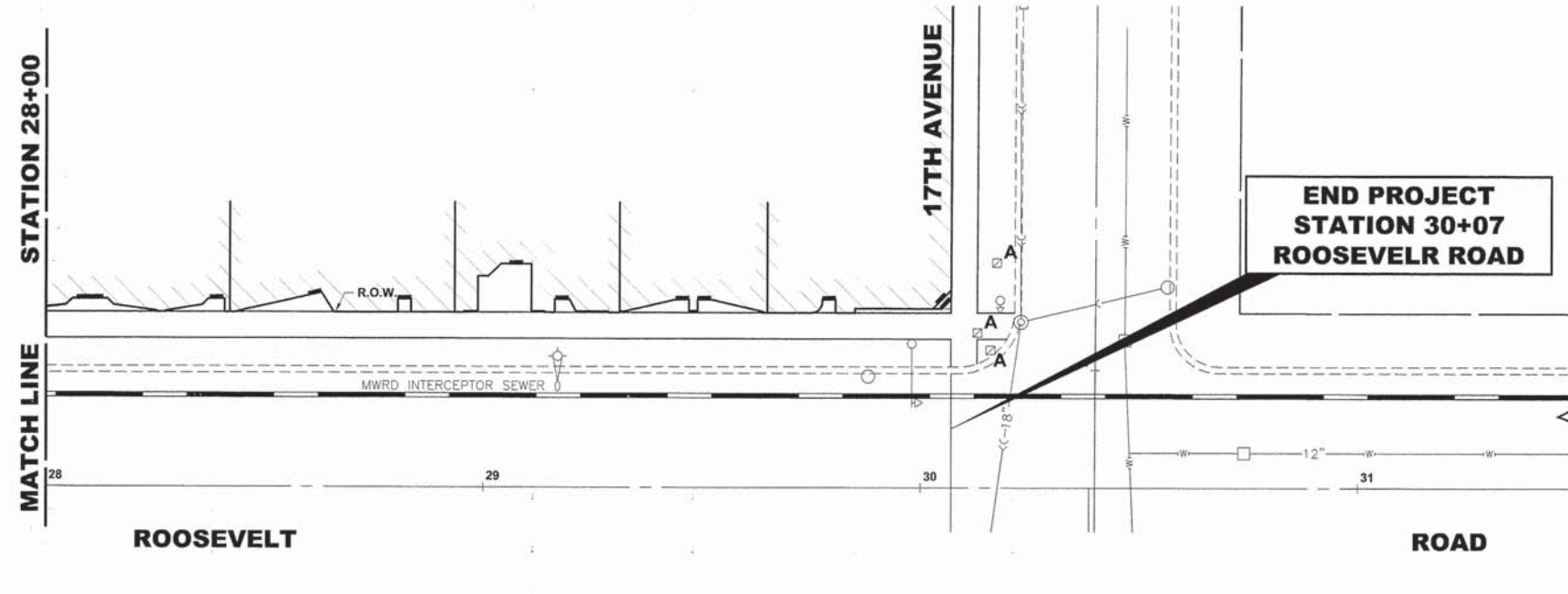
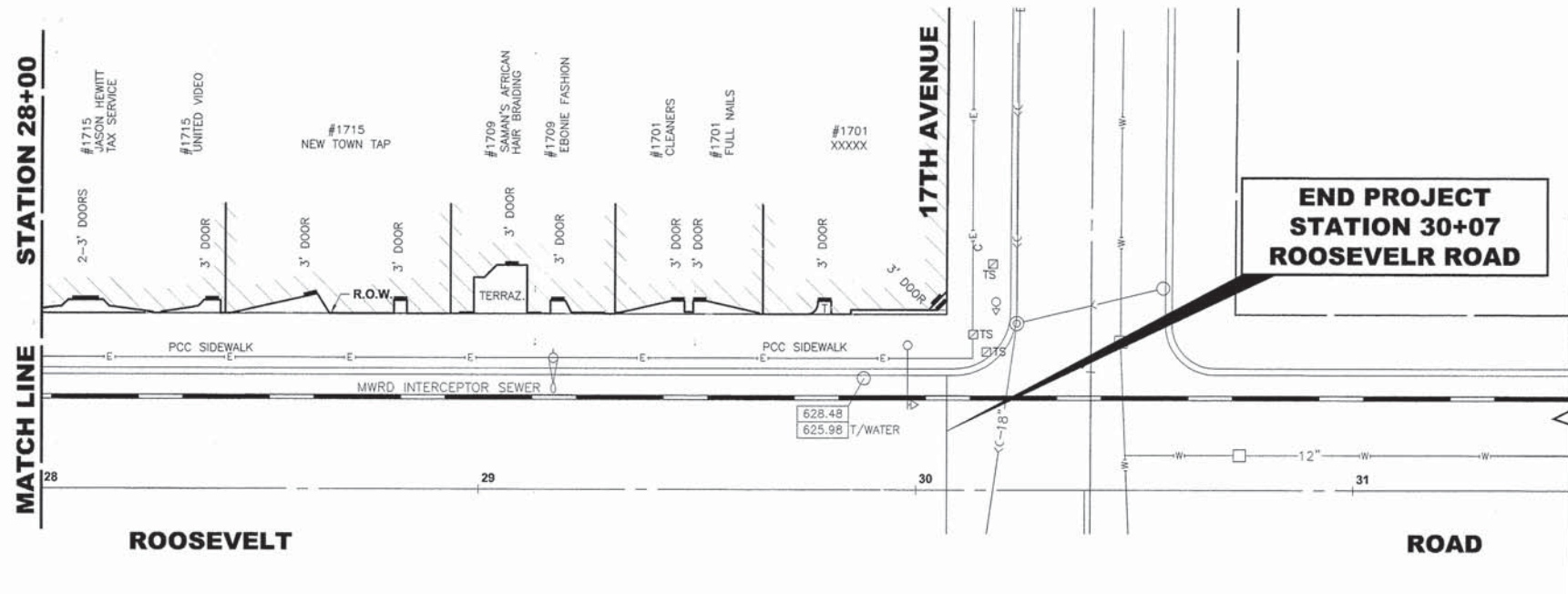
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DRAWN -	MK, DMM	REVISED -	
CHECKED -	JGG	REVISED -	
DATE -	12/16/13	REVISED -	

**STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION**

ROADWAY DETAILS

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

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
567	12-00079-00-SW	COOK	61	20
FIELD BOOK NO. :		CONTRACT NO. 63768		
FED. ROAD DIST. NO. 1		ILLINOIS FED. AID PROJECT		



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- ◆ Established 1911

9933 Roosevelt Road
Westchester, Illinois 60154-2790
Phone: 708/665-0300
Fax: 708/665-1212

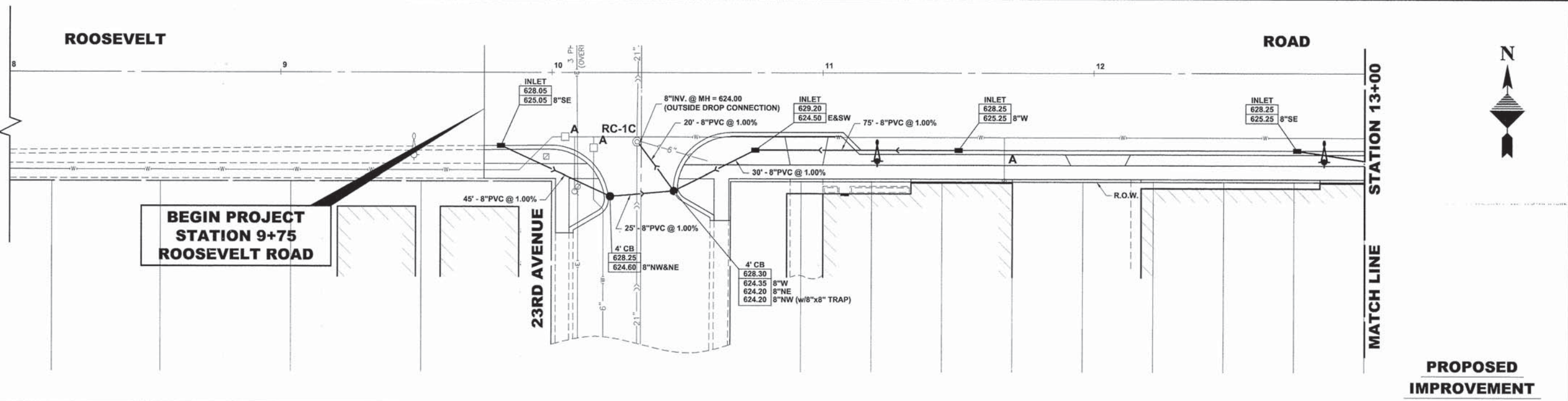
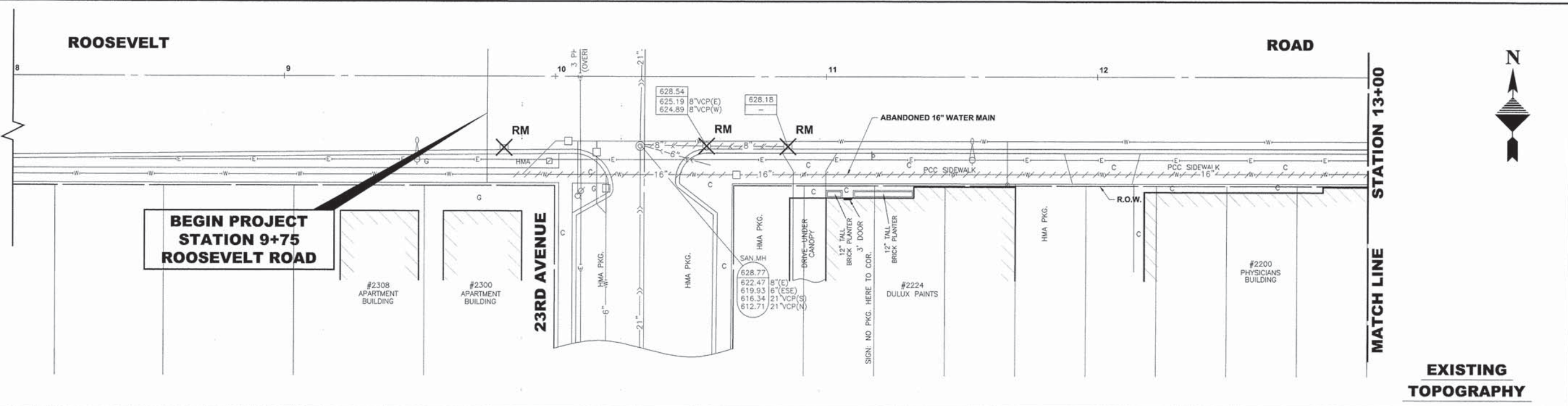
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DRAWN -	MK, DMM	REVISED -	
CHECKED -	JGG	REVISED -	
DATE -	12/16/13	REVISED -	

**STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION**

**DRAINAGE AND UTILITIES PLAN
(NORTH SIDE)**

SCALE: 1"=20'H./2V. SHEET NO. 5 OF 10 SHEETS STA. 28+00 TO STA. 30+07

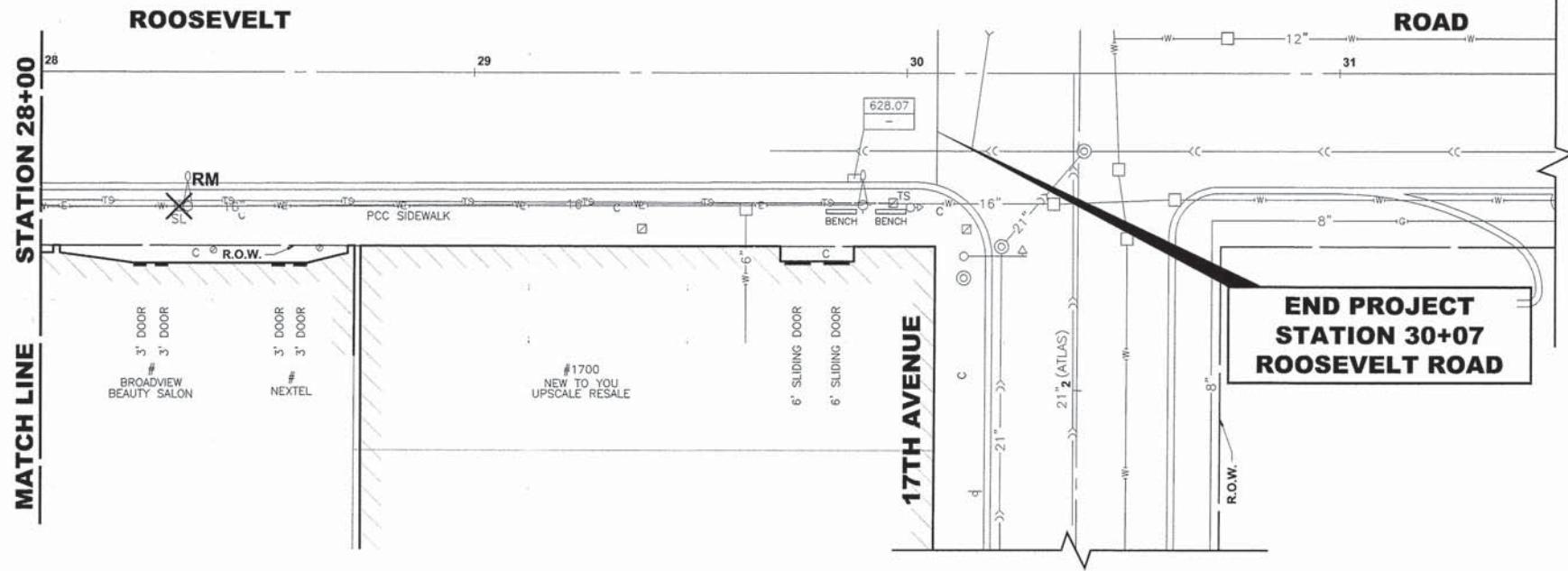
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FIELD BOOK NO.:		CONTRACT NO. 63768		
FED. ROAD DIST. NO. 1 ILLINOIS FED. AID PROJECT				



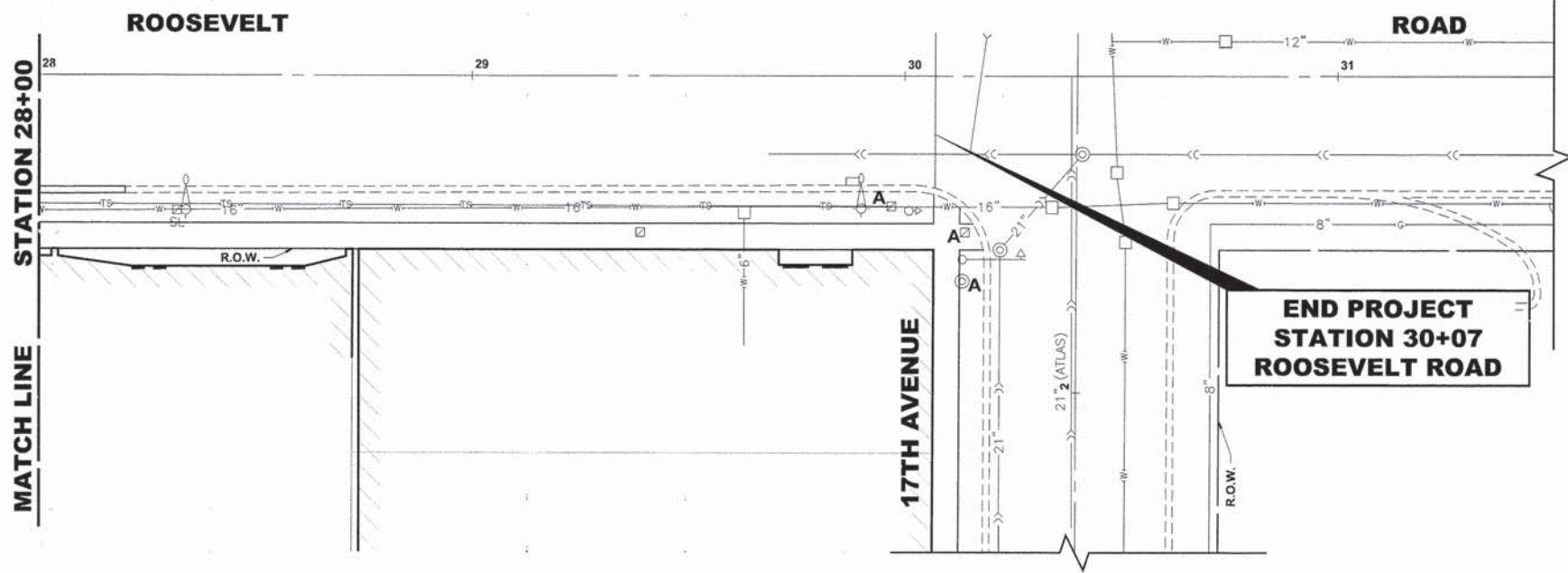
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<p>HANCOCK ENGINEERING ♦ Civil Engineers ♦ Municipal Consultants ♦ Established 1911</p>	9933 Roosevelt Road Westchester, Illinois 60154-3780 Phone: 708.965-0390 Fax: 708.965-1212	DESIGNED - JGG DRAWN - MK, DMM CHECKED - JGG DATE - 12/16/13	REVISED - REVISED - REVISED - REVISED -	STATE OF ILLINOIS DEPARTMENT OF TRANSPORTATION	ROOSEVELT ROAD DRAINAGE AND UTILITIES PLAN (SOUTH SIDE)	F.A.P. RTE. 567 SECTION 12-00079-00-SW COUNTY COOK TOTAL SHEETS 61 SHEET NO. 26
	SCALE: 1"=20'H./2V. SHEET NO. 6 OF 10 SHEETS STA. 8+00 TO STA. 13+00		FIELD BOOK NO.: FED. ROAD DIST. NO. 1 ILLINOIS FED. AID PROJECT		CONTRACT NO. 63768	

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 Dec 16, 2013 - 11:04am



EXISTING TOPOGRAPHY



PROPOSED IMPROVEMENT

D:\Projects\12010016 - Roosevelt Road Streetscape\12010016 - Roosevelt Rd.dwg Dec 16, 2013 - 11:05am

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627					627
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- ◆ Established 1911

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Winnetka, Illinois 60154-2790
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Fax: 708.965-1212

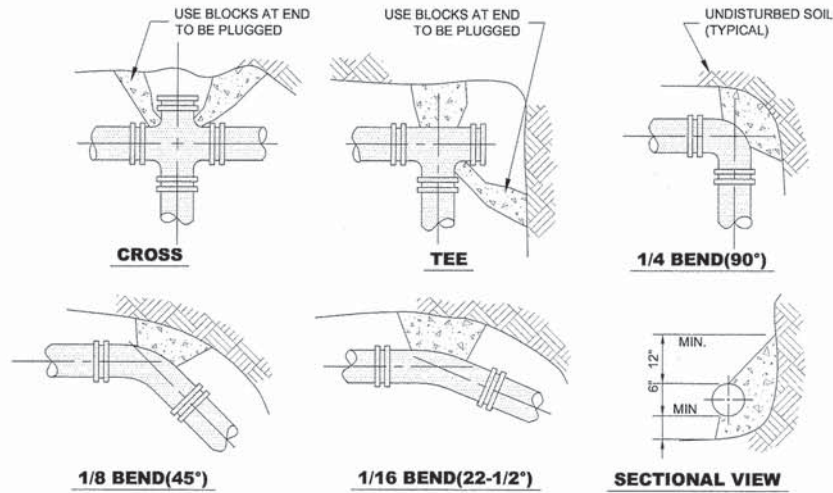
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CHECKED -	JGG	REVISED -	
DATE -	12/16/13	REVISED -	

**STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION**

**ROOSEVELT ROAD
DRAINAGE AND UTILITIES PLAN (SOUTH SIDE)**

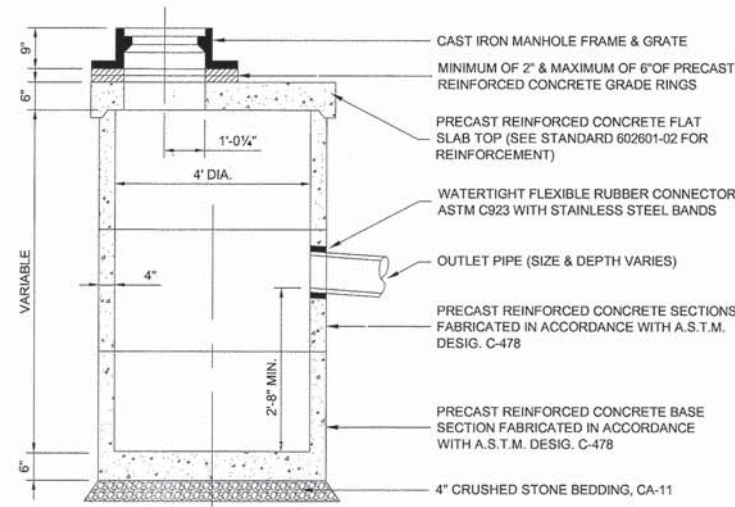
SCALE: 1"=20'H./2'V. SHEET NO. 10 OF 10 SHEETS STA. 23+00 TO STA. 30+07

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
567	12-00079-00-SW	COOK	61	30
FIELD BOOK NO.:		CONTRACT NO. 63768		
FED. ROAD DIST. NO. 1 ILLINOIS FED. AID PROJECT				

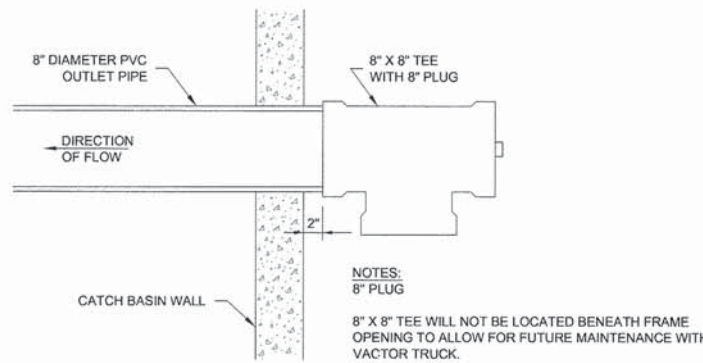


NOTE:
 1. THRUST BLOCKS TO BE USED AT 1/16(22-1/2°) OR GREATER BENDS & AT ALL ENDS TO BE PLUGGED.
 2. PRECAST CONCRETE THRUST BLOCKS TO BE PLACED AGAINST FIRM, UNDISTURBED SOIL.

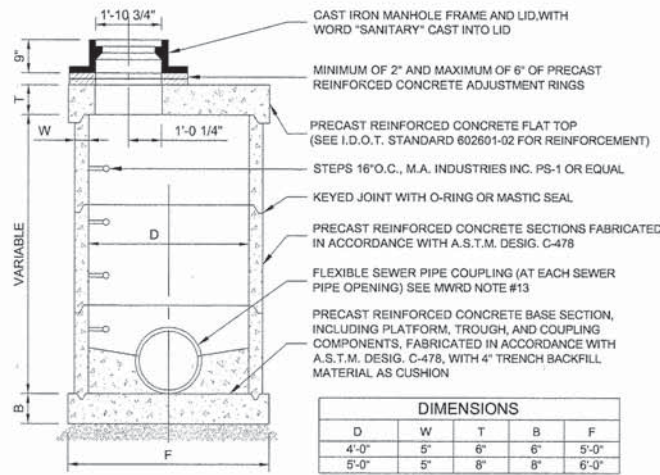
THRUST BLOCK DETAIL



CATCH BASIN, TYPE "A" (SPECIAL)



8" X 8" CATCH BASIN TRAP
 (TO BE INSTALLED IN CERTAIN PROPOSED CATCH BASINS AS NOTED ON PLANS)

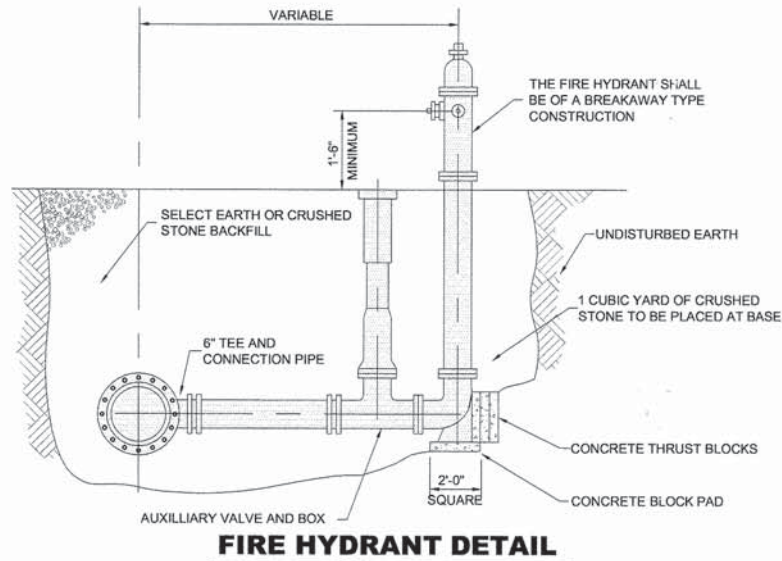


NOTE:
 COMBINED SEWER MANHOLE WILL BE INSTALLED WITH AN OUTSIDE DROP CONNECTION. SEE DETAIL ON SHEET 31.

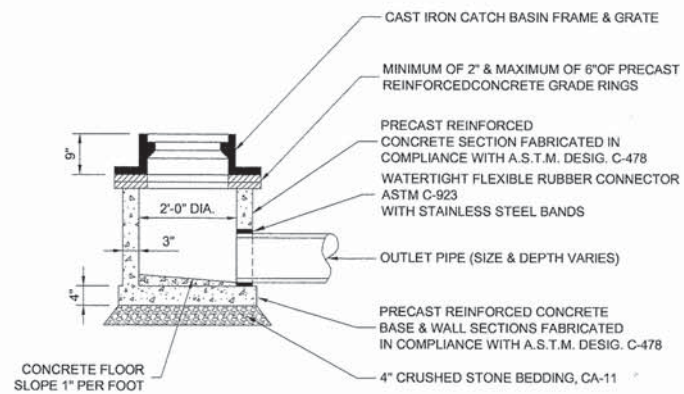
COMBINED SEWER MANHOLE

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

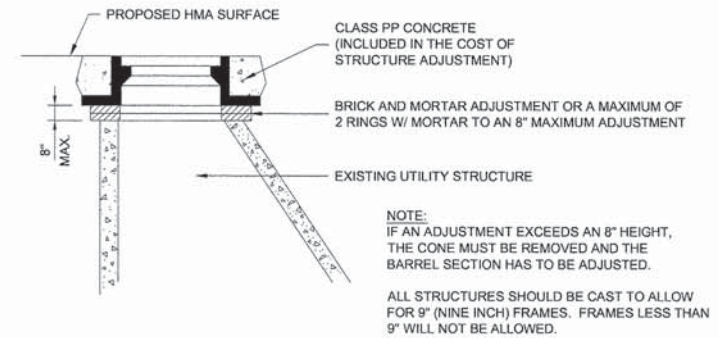
- THE MWRD SEWER SYSTEMS SECTION FIELD OFFICE MUST BE NOTIFIED AT LEAST TWO (2) WORKING DAYS PRIOR TO THE COMMENCEMENT OF WORK AT (708) 588-4055.
- ELEVATION DATUM IS U.S.G.S.
- ALL FLOOR DRAINS SHALL DISCHARGE TO THE SANITARY SEWER SYSTEM.
- ALL DOWNSPOUTS AND FOOTING DRAINS SHALL DISCHARGE INTO THE STORM SEWER SYSTEM.
- ALL PVC STORM, COMBINED, AND SANITARY 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.
- ALL SANITARY SEWER CONSTRUCTION, AND ALSO 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 WHEN USING PVC PIPE.
- "BAND SEAL" OR SIMILAR FLEXIBLE-TYPE COUPLINGS SHALL BE USED IN THE CONNECTION OF SEWER PIPE OF DISSIMILAR MATERIALS.
- 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:
 - CIRCULAR SAW-CUT OF SEWER MAIN BY MECHANICAL CORING MACHINE, AND PROPER INSTALLATION OF HUB-WYE SADDLE OR HUB-TEE SADDLE, IN ACCORDANCE WITH THE MANUFACTURER'S RECOMMENDATIONS.
 - 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.
 - 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.
- WHEREVER A SANITARY/COMBINED SEWER CROSSES UNDER A WATER MAIN, THE MINIMUM VERTICAL DISTANCE FROM THE TOP OF THE SEWER TO THE BOTTOM OF THE WATERMAIN SHALL BE 18 INCHES. FURTHERMORE, A MINIMUM HORIZONTAL DISTANCE OF 10 FEET BETWEEN SANITARY/COMBINED SEWERS AND WATERMANS 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 WATERMAIN LOCATED AT THE OPPOSITE SIDE ON 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 WATERMAIN, THE SEWER SHALL BE CONSTRUCTED WATERMAIN STANDARDS.
- A RESILIENT CONNECTOR BETWEEN ALL PROPOSED STRUCTURES AND ALL SEWER PIPE IS REQUIRED ACCORDING TO ASTM C-923.
- ALL SANITARY MANHOLES, (AND STORM MANHOLES IN COMBINED SEWER AREAS), SHALL HAVE A MINIMUM INSIDE DIAMETER OF 48 INCHES, AND SHALL BE CAST IN PLACE OR PRE-CAST REINFORCED CONCRETE.
- ALL ABANDONED SEWERS SHALL BE PLUGGED AT BOTH ENDS WITH A MINIMUM OF TWO (2) FEET LONG NON-SHRINK CONCRETE/MORTAR PLUG.
- 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.
- THE MAXIMUM ALLOWABLE INFILTRATION OR EXFILTRATION IS 100 GAL/DAY/MILE/INCH DIA OF THE SEWER PIPE.
- EXCEPT FOR FOUNDATION/FOOTING DRAINS PROVIDED TO PROTECT BUILDINGS, DRAIN TILES/FIELD TILES/UNDER DRAINS/PERFORATED PIPES ARE NOT ALLOWED TO BE CONNECTED TO OR TRIBUTARY TO COMBINED SEWERS IN COMBINED SEWER AREAS. CONSTRUCTION OF NEW FACILITIES OF THIS TYPE IS PROHIBITED; AND ALL EXISTING DRAIN TILES AND PERFORATED PIPES ENCOUNTERED WITHIN THE PROJECT AREA SHALL BE PLUGGED OR REMOVED, AND SHALL NOT BE CONNECTED TO COMBINED SEWERS, SANITARY SEWERS, OR STORM SEWERS TRIBUTARY TO COMBINED SEWERS.



FIRE HYDRANT DETAIL



INLET, TYPE "A", (SPECIAL)



STRUCTURE ADJUSTMENT

NOTE:
 IF AN ADJUSTMENT EXCEEDS AN 8" HEIGHT, THE CONE MUST BE REMOVED AND THE BARREL SECTION HAS TO BE ADJUSTED.
 ALL STRUCTURES SHOULD BE CAST TO ALLOW FOR 9" (NINE INCH) FRAMES. FRAMES LESS THAN 9" WILL NOT BE ALLOWED.

Drawing file: W:\Projects\12010016 - Roosevelt Road Streetscape\Rooserveit Rd_Vg_DrainageDetails.dwg Dec 20, 2013 - 9:15am

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DATE -	12/16/13	REVISED -	

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

DRAINAGE DETAILS

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

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
567	12-00079-00-SW	COOK	61	31
FIELD BOOK NO.:		CONTRACT NO. 63768		
FED. ROAD DIST. NO. 1		ILLINOIS FED. AID PROJECT		

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, INCLUDED IN THE COST OF THE RESPECTIVE UNDERGROUND PAY ITEM.

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 BE INCLUDED IN THE APPLICABLE SEWER CONTRACT ITEMS.

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 INCLUDED IN THE COST OF INLET FILTERS.

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.

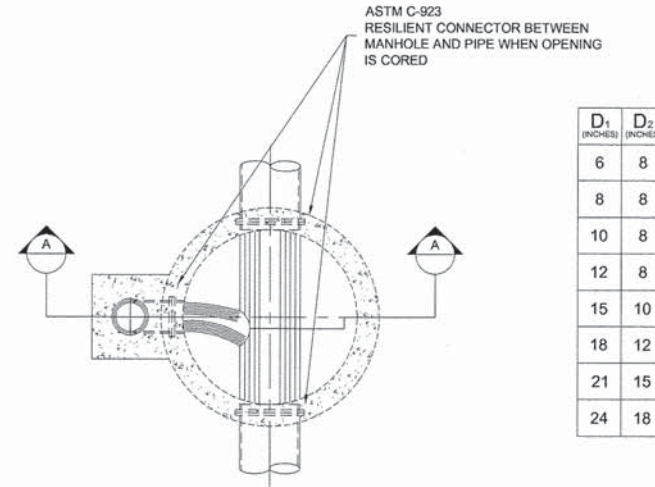
ON ALL IMPROVEMENTS, THE FRAMES AND LIDS OF EXISTING CATCH BASINS, INLETS, MANHOLES, AND VALVE VAULTS WHICH ARE TO BE ABANDONED DUE TO CONSTRUCTION OF THIS IMPROVEMENT ARE TO REMAIN THE PROPERTY OF THE VILLAGE OF BROADVIEW AND BE SALVAGED. THE CONTRACTOR IS TO DELIVER FRAMES AND LIDS TO THE VILLAGE OF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

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
POLYVINYLCHLORIDE PIPE (8"-12")	ASTM D-2241	ASTM D-3139

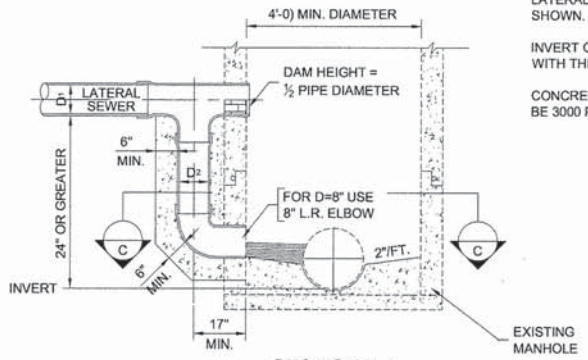


D ₁ (INCHES)	D ₂ (INCHES)
6	8
8	8
10	8
12	8
15	10
18	12
21	15
24	18

SECTION C-C

NOTE:
D₂ SHALL BE NO SMALLER THAN TWO (2) NOMINAL DIAMETERS LESS THAN D₁, BUT NOT LESS THAN 8".

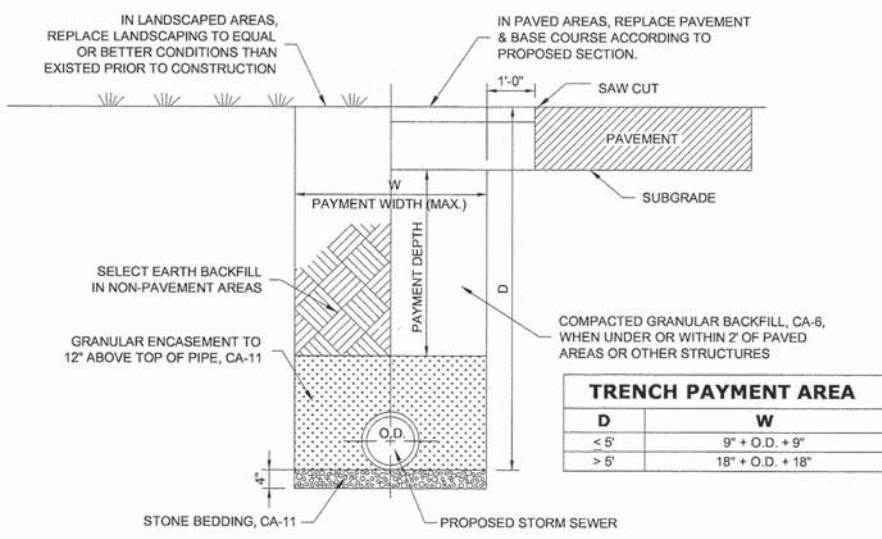
DETAILS AND MATERIAL FOR DROP MANHOLE SHALL BE SAME AS FOR STANDARD MANHOLE EXCEPT FOR LATERAL SEWER CONNECTION AS SHOWN.



SECTION A-A

INVERT OF ELBOW TO BE PLACED EVEN WITH THE LEVEL OF THE BENCH.
CONCRETE FOR ENCASUREMENT SHALL BE 3000 PSI @ 28 DAYS, MINIMUM.

OUTSIDE DROP MANHOLE CONNECTION



TYPICAL SEWER TRENCH DETAIL

DUCTILE IRON PIPE SPECIFICATIONS

- ALL DUCTILE IRON PIPE SEWER MAINS SHALL BE CLASS 52, CEMENT-LINED AND TAR-COATED, MEETING THE REQUIREMENTS OF SPECIFICATIONS ANSIAWWA C151/A21.51 WITH "PUSH-ON" JOINTS MEETING THE REQUIREMENTS OF SPECIFICATIONS ANSIAWWA 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.
- ALL PIPE FITTINGS AND SPECIAL CASTINGS SHALL BE DUCTILE IRON CONFORMING TO ANSIAWWA C153/A21.53 AND ANSIAWWA 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.
- ALL PROPOSED DUCTILE IRON PIPE 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 ANSIAWWA C105/A21.5. ALL PROPOSED SEWER SERVICES SHALL BE ENCASED IN POLYETHYLENE TUBING FOR A MINIMUM DISTANCE OF THREE FEET (3') FROM THE PROPOSED SEWER MAIN.

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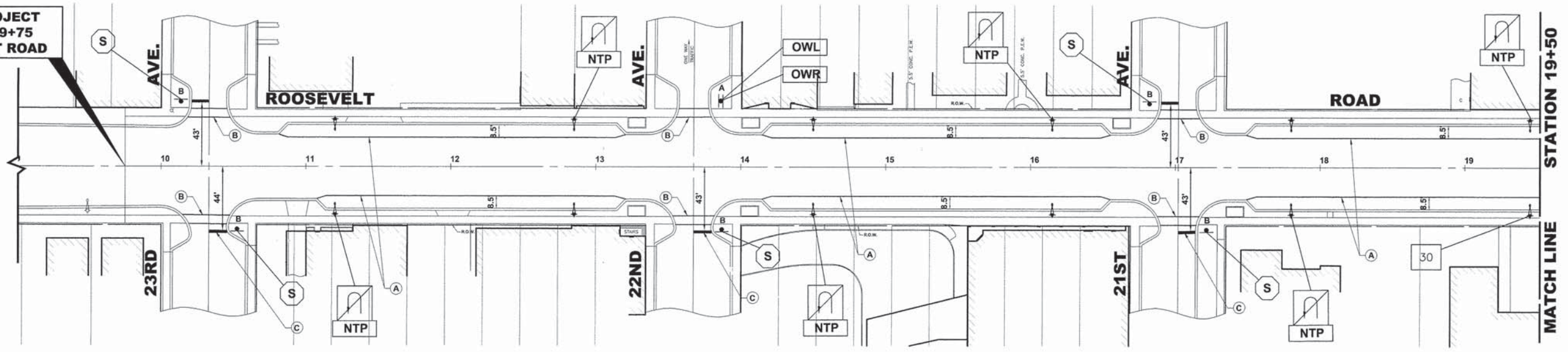
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DRAWN -	MK, DMM	REVISED -	
CHECKED -	JGG	REVISED -	
DATE -	12/16/13	REVISED -	

**STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION**

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

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
567	12-00079-00-SW	COOK	61	32
FIELD BOOK NO.:		CONTRACT NO. 63768		
FED. ROAD DIST. NO. 1 ILLINOIS FED. AID PROJECT				

BEGIN PROJECT
STATION 9+75
ROOSEVELT ROAD



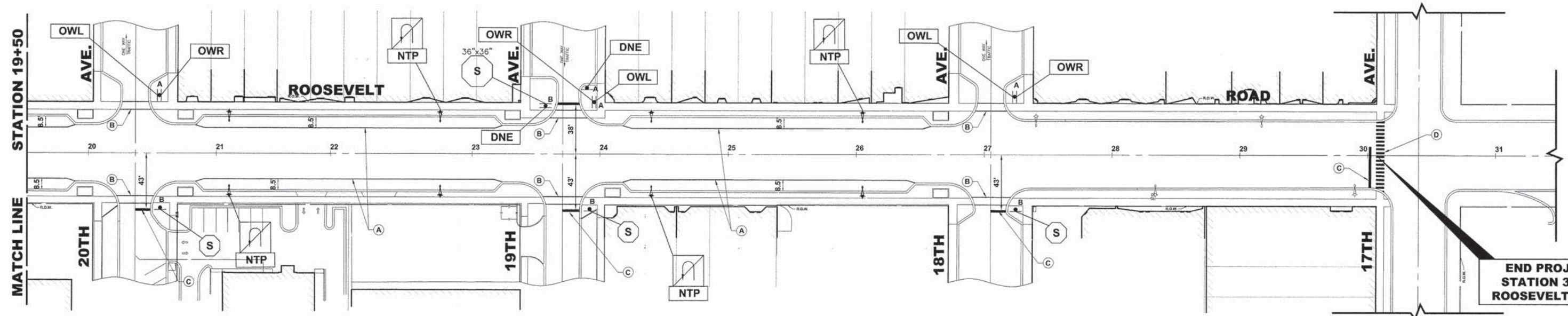
PAVEMENT MARKINGS LEGENDS	
ITEM DESCRIPTION	SYMBOL
THERMOPLASTIC PAVEMENT MARKING - LINE 4", PARKING LANE LINE, WHITE	A
THERMOPLASTIC PAVEMENT MARKING - LINE 6", CROSS WALK, WHITE	B
THERMOPLASTIC PAVEMENT MARKING - LINE 24", STOP BAR, WHITE	C
THERMOPLASTIC PAVEMENT MARKING - LINE 12", CROSS WALK, WHITE	D

**SIGNING PLAN
LEGEND OF SYMBOLS**

SYMBOL	DESCRIPTION
↔ A	TYPE A POST
↔ B	TYPE B POST

JOB-SITE SIGNING CODES AND SIZES		
SYMBOL	SIGN	CODE & SIZE
S	STOP	R1-1 30"x30"
S	STOP	R1-1 36"x36"
30	SPEED LIMIT 30	R2-1 24"x30"
⊘	NO TRUCK PARKING	R3-4 24"x24"

JOB-SITE SIGNING CODES AND SIZES		
SYMBOL	SIGN	CODE & SIZE
OWL	ONE WAY	R6-2 24"x30"
OWL	ONE WAY	R6-2 24"x30"
NTP	NO TRUCK PARKING	R7-4 12"x18"
DNE	DO NOT ENTER	R5-1 30"x30"



END PROJECT
STATION 30+07
ROOSEVELT ROAD

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STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

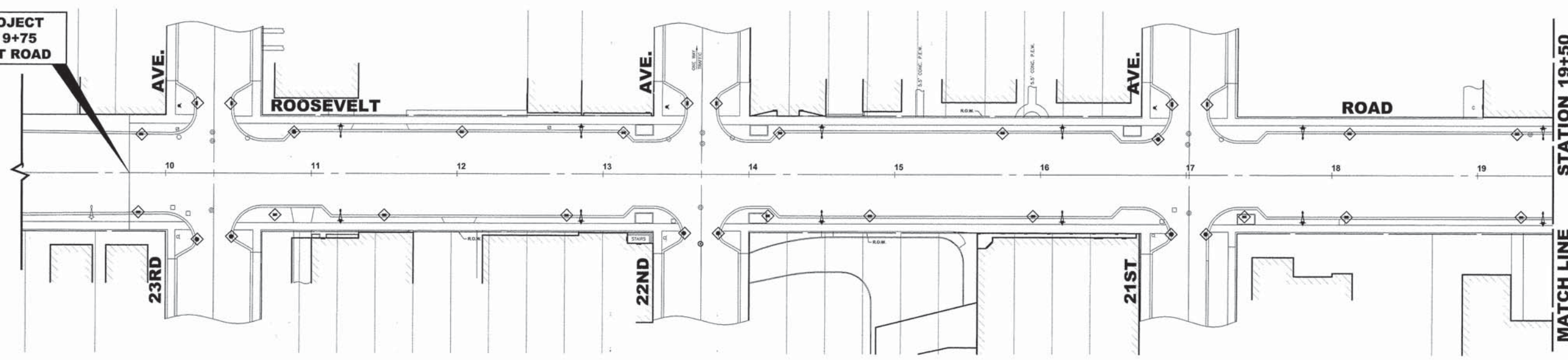
PAVEMENT MARKING AND SIGNING PLAN

SCALE: 1" = 40' SHEET NO. 1 OF 1 SHEETS STA. 9+75 TO STA. 30+07

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
567	12-00079-00-SW	COOK	61	33
FIELD BOOK NO. :		CONTRACT NO. 63768		
FED. ROAD DIST. NO. 1		ILLINOIS FED. AID PROJECT		

Drawing file: W:\Projects\12010016 - Roosevelt Road Streetscape\Roosevelt Rd_Roosevelt.dwg Dec 20, 2013 - 10:22am

BEGIN PROJECT
STATION 9+75
ROOSEVELT ROAD

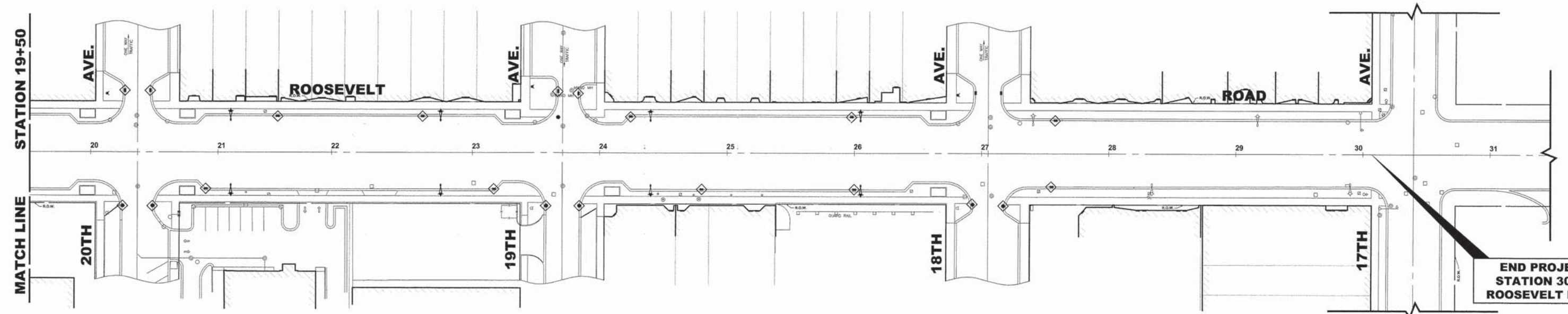
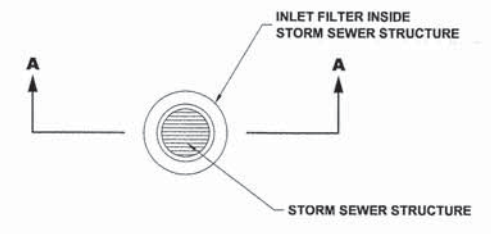
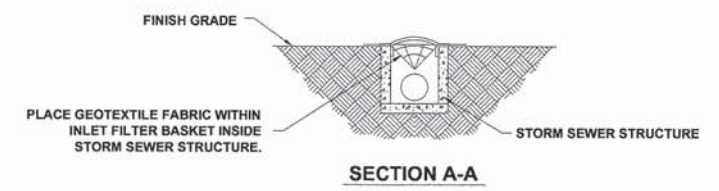


EROSION CONTROL NOTES

1. SEE IDOT STANDARD 280001-07 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. THE COST SHALL BE INCLUDED IN THE CONTRACT.
5. THE CONTRACTOR SHALL UTILIZE A SPECIFIC CONCRETE WASH OUT AREA LOCATED AWAY FROM DRAINAGE STRUCTURES, AT A FREQUENCY OF NO MORE THEN 1 X PER 1000' LOCATION TO BE DETERMINED IN FIELD

LEGEND

SYMBOL	DESCRIPTION
◆	INLET FILTER/SEDIMENT CONTROL, DRAINAGE STRUCTURE



END PROJECT
STATION 30+07
ROOSEVELT ROAD

Drawing file: W:\Projects\12010016 - Roosevelt Road Streetscape\12010016 - Roosevelt Rd Streetscape.dwg Dec 16, 2013 11:08am

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DATE - 12/16/13	REVISED -

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

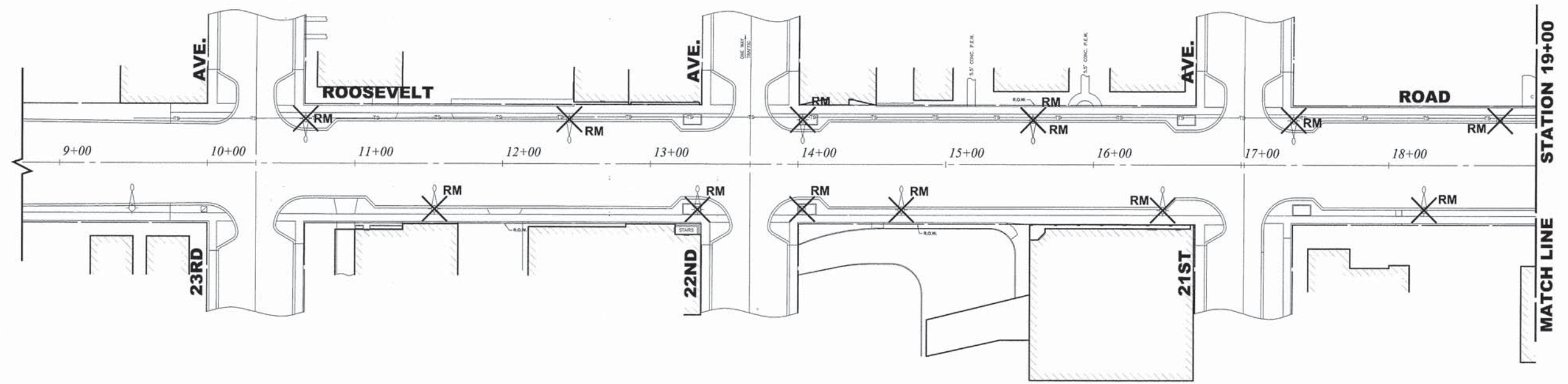
EROSION CONTROL PLAN

SCALE: 1" = 40'

SHEET NO. 1 OF 1 SHEETS

STA. 9+75 TO STA. 30+07

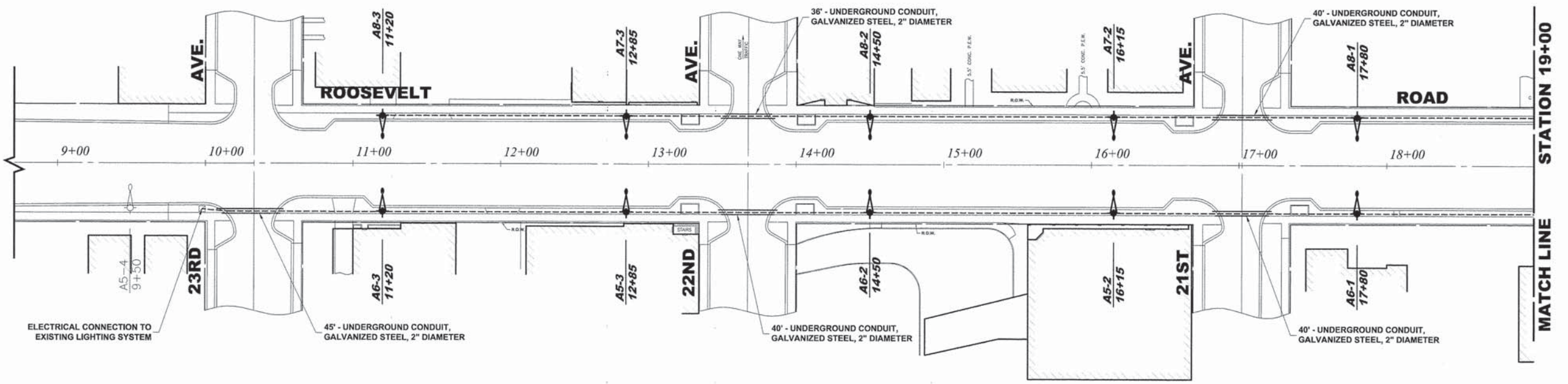
F.A.P. RTE. 567	SECTION 12-00079-00-SW	COUNTY COOK	TOTAL SHEETS 61	SHEET NO. 34
FIELD BOOK NO.:		CONTRACT NO. 63768		
FED. ROAD DIST. NO. 1 ILLINOIS FED. AID PROJECT				



NOTE:
SEE SHEETS 21-30 FOR LOCATION OF EXISTING UTILITIES

LEGEND OF SYMBOLS	
	EXISTING LIGHT POLE AND FIXTURE TO BE REMOVED
	PROPOSED 35' MH POLE WITH 8' ARM & 250 WATT HIGH PRESSURE SODIUM LAMP
	PROPOSED CONTROL CENTER
	EXISTING STREET LIGHT CABLE TO REMAIN
	PROPOSED UNIT DUCT WITH 3-1/2\"/>
	PROPOSED GALVANIZED STEEL CONDUIT
	CONTROLLER IDENTIFICATION (TYP.)
	CIRCUIT NUMBER (TYP.)
	POLE NUMBER (TYP.)
	STATION NUMBER (TYP.)

EXISTING
TOPOGRAPHY



PROPOSED
IMPROVEMENT

Drawing file: W:\Projects\12010016 - Roosevelt Road Streetscape\12010016 - Roosevelt Road Streetscape Lighting.dwg Dec 16, 2013 - 11:09am

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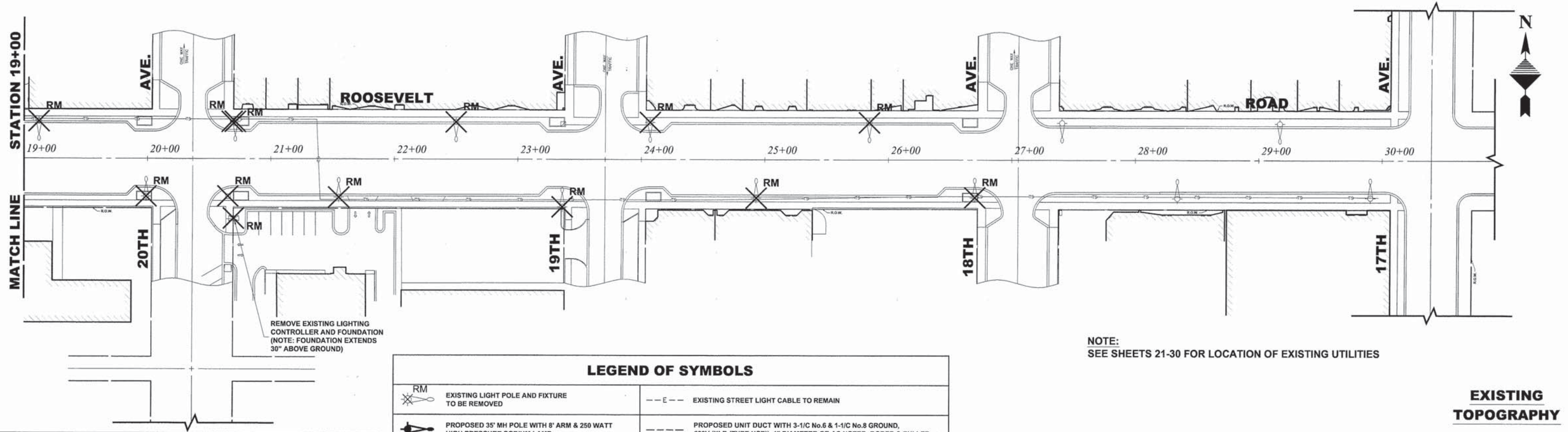
DESIGNED - JGG	REVISED -
DRAWN - MK, DMM	REVISED -
CHECKED - JGG	REVISED -
DATE - 12/16/13	REVISED -

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

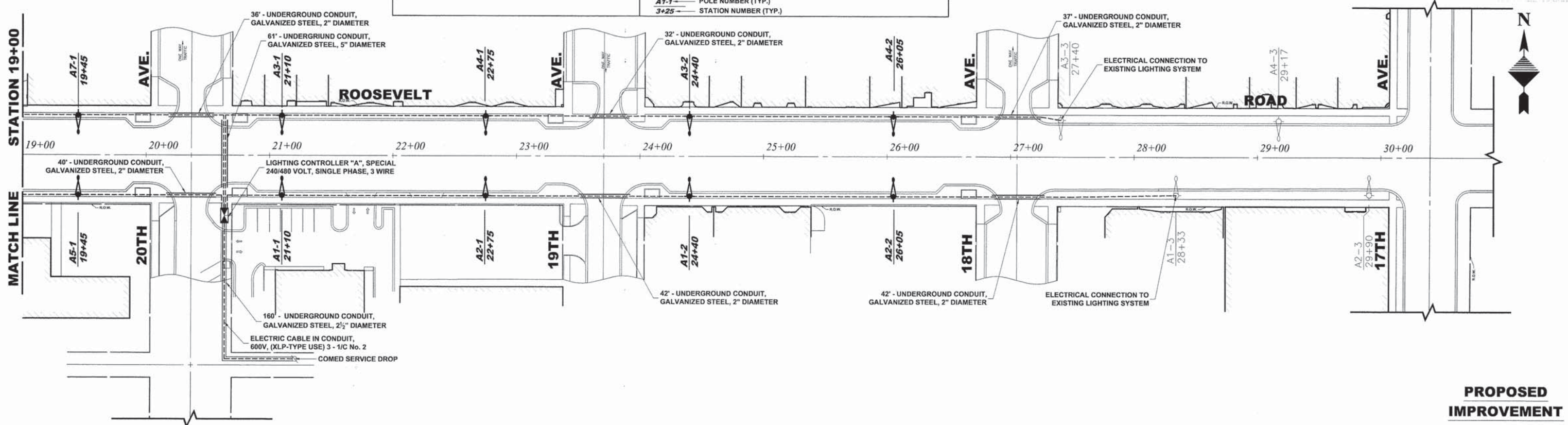
LIGHTING PLAN	
SCALE: 1" = 40'	SHEET NO. 1 OF 3 SHEETS
STA. -	TO STA. -

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
567	12-00079-00-SW	COOK	61	35
FIELD BOOK NO.:		CONTRACT NO. 63768		
FED. ROAD DIST. NO. 1		ILLINOIS FED. AID PROJECT		

Drawing file: W:\Projects\12010016 - Roosevelt Road Streetscape\Roosevelt Rd_Roosevelt Lighting.dwg Dec 16, 2013 11:09am



LEGEND OF SYMBOLS	
	EXISTING LIGHT POLE AND FIXTURE TO BE REMOVED
	PROPOSED 35' MH POLE WITH 8' ARM & 250 WATT HIGH PRESSURE SODIUM LAMP
	PROPOSED CONTROL CENTER
	EXISTING STREET LIGHT CABLE TO REMAIN
	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
	CONTROLLER IDENTIFICATION (TYP.) CIRCUIT NUMBER (TYP.) POLE NUMBER (TYP.) STATION NUMBER (TYP.)



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DRAWN -	MK, DMM	REVISED -	
CHECKED -	JGG	REVISED -	
DATE -	12/16/13	REVISED -	

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

LIGHTING PLAN

SCALE: 1" = 40'

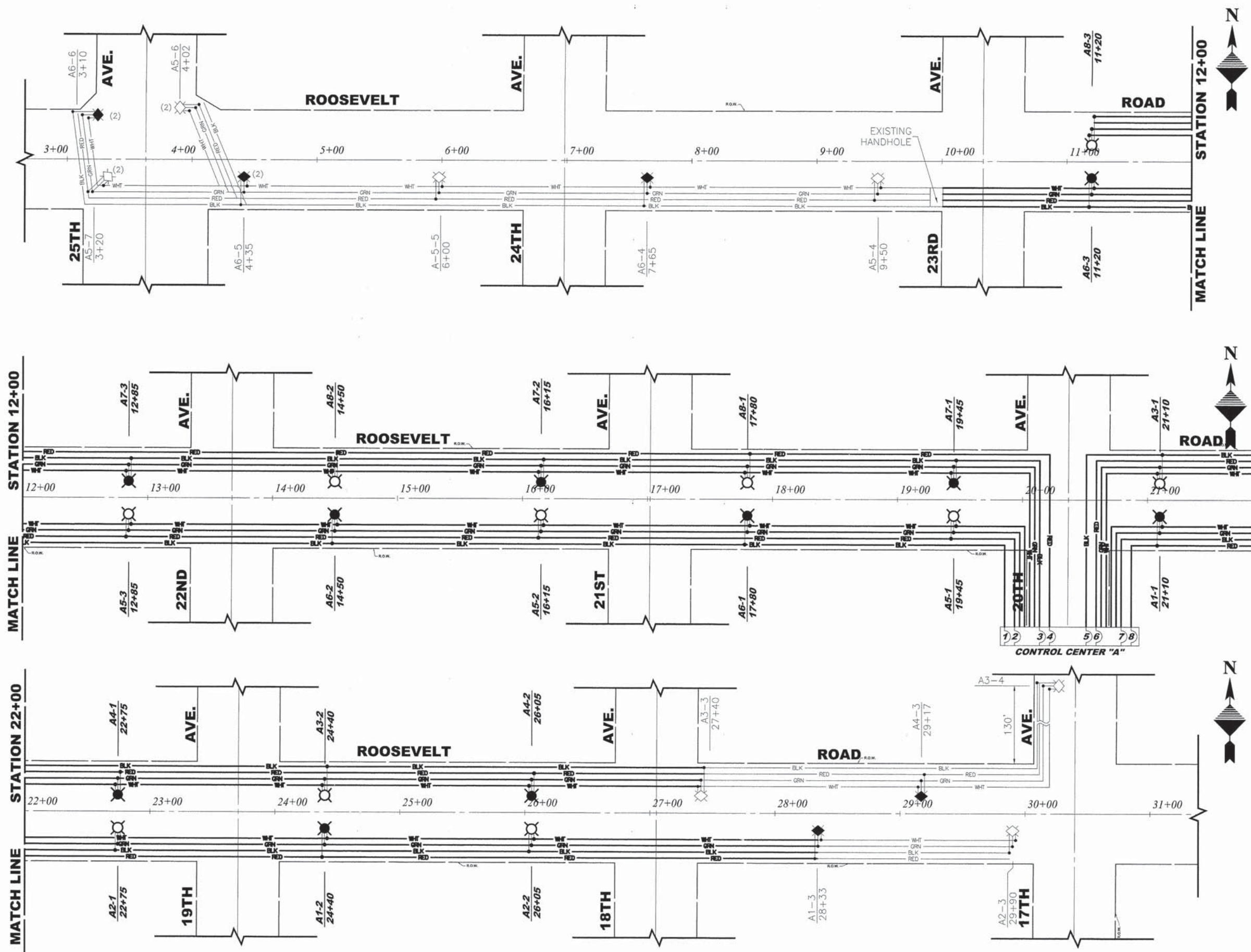
SHEET NO. 2 OF 3 SHEETS

STA. -

TO STA. -

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
567	12-00079-00-SW	COOK	61	36
FIELD BOOK NO.:		CONTRACT NO. 63768		
FED. ROAD DIST. NO. 1 ILLINOIS FED. AID PROJECT				

Drawing file: W:\Projects\12010016 - Roosevelt Road Streetscape\Roosevelt Rd_Roosevelt Lighting.dwg Dec 16, 2013 - 11:09am



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 HIGH PRESSURE SODIUM LUMINAIRE (240 VOLT) ON BLACK WIRE
	PROPOSED 250 WATT HIGH PRESSURE SODIUM LUMINAIRE (240 VOLT) ON RED WIRE
A1-1	PROPOSED CIRCUIT/POLE NUMBER
	EXISTING 400 WATT HPS LUMINAIRE ON BLACK WIRE
	EXISTING 4000 WATT HPS LUMINAIRE ON RED WIRE

LIGHTING CONTROLLER A CIRCUIT LOADS					
CIRCUIT	PHASE - RED		CIRCUIT	PHASE - BLACK	
	AMPS	WATTS		AMPS	WATTS
1	4.6	900	2	4.6	900
3	6.6	1,300	4	4.6	900
5	11.9	2,350	6	11.9	2,350
7	3.9	750	8	3.9	750
TOTAL	27.0		TOTAL	25.0	

HANCOCK ENGINEERING
 Civil Engineers
 Municipal Consultants
 Established 1911

9933 Roosevelt Road
 Wheeling, Illinois 60154-3790
 Phone: 708/965-0300
 Fax: 708/965-1212

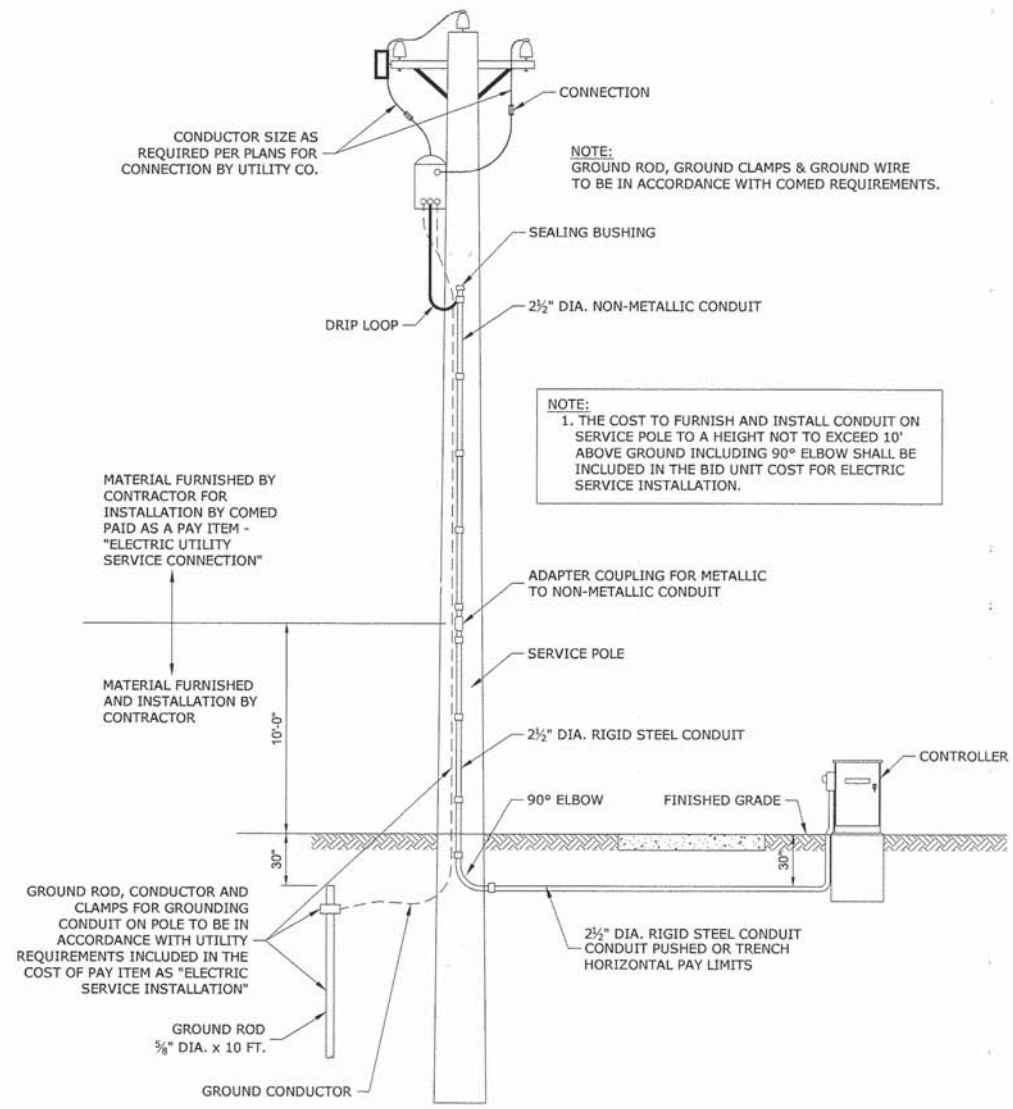
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DRAWN -	MK, DMM	REVISED -	
CHECKED -	JGG	REVISED -	
DATE -	12/16/13	REVISED -	

**STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION**

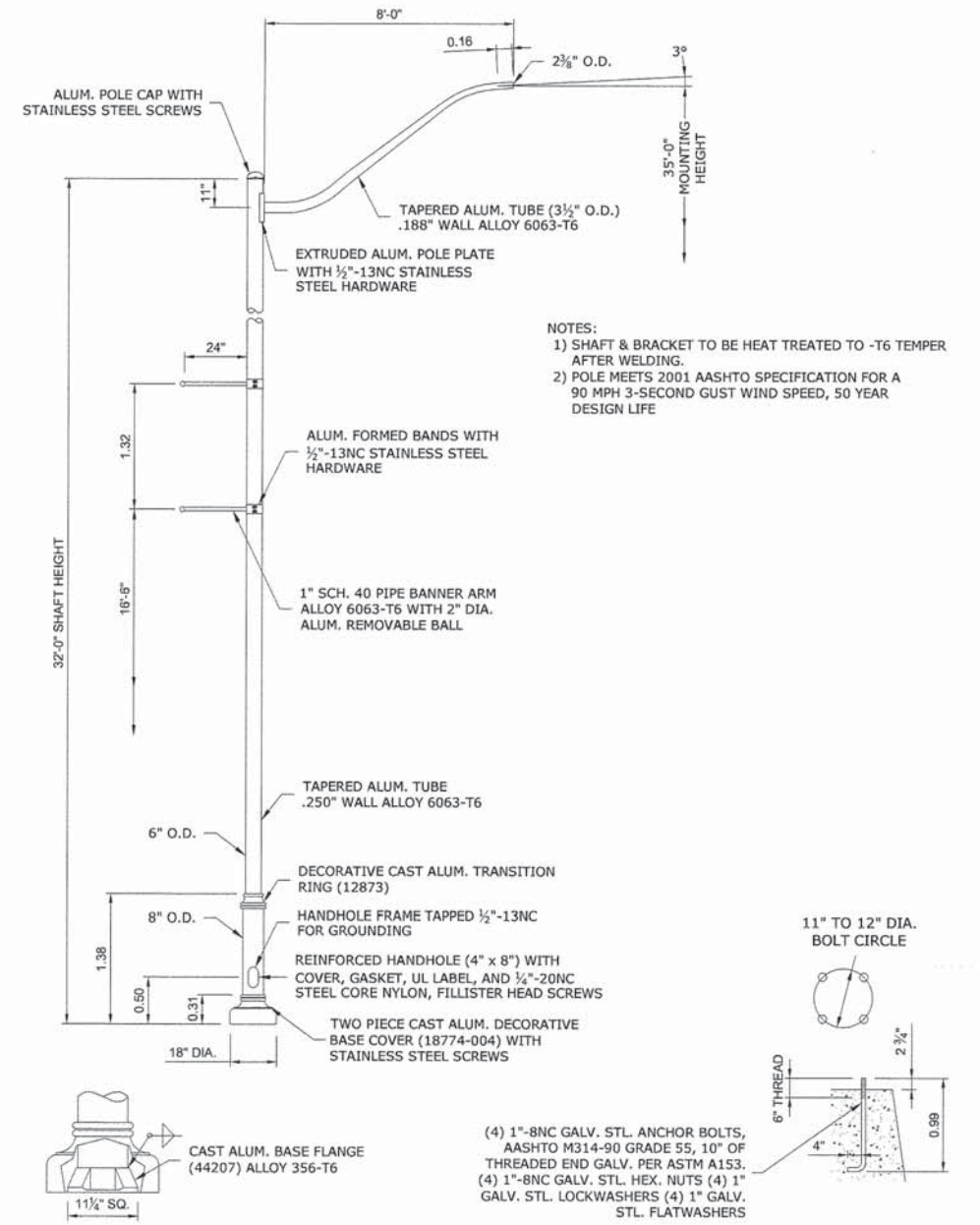
ILLUMINATION WIRING DIAGRAM

SCALE: 1" = 40' SHEET NO. 3 OF 3 SHEETS STA. - TO STA. -

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
567	12-00079-00-SW	COOK	61	37
FIELD BOOK NO.:		CONTRACT NO. 63768		
FED. ROAD DIST. NO. 1 ILLINOIS FED. AID PROJECT				



**PROPOSED SERVICE INSTALLATION
POLE TOP MOUNTED TRANSFORMER**



PROPOSED LIGHT POLE DETAILS

Drawing file: W:\Projects\12010016 - Roosevelt Road Streetcscope\Roosevelt Rd\Electrical Details_2.dwg Dec 16, 2013 11:11am

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 ♦ Municipal Consultants
 ♦ Established 1911

9933 Roosevelt Road
 Waukegan, Illinois 60156-2708
 Phone: 708/965-8396
 Fax: 708/965-1212

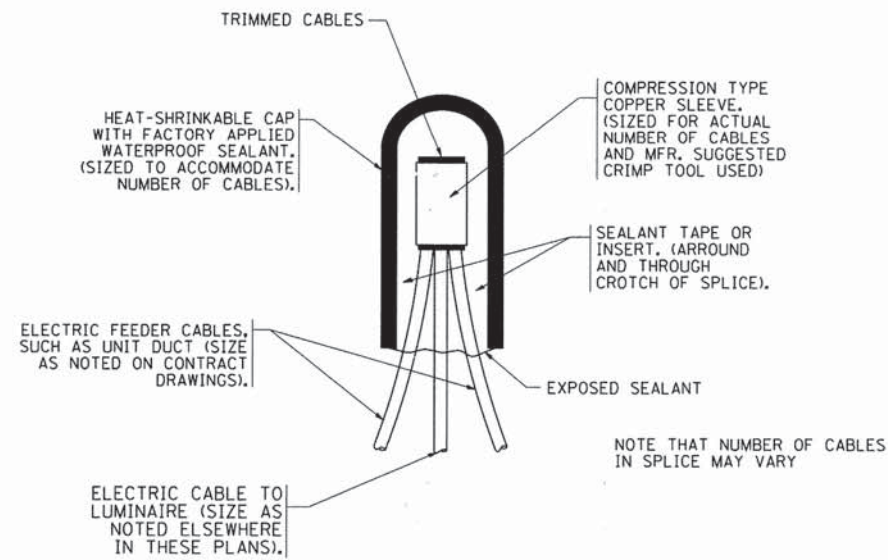
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DATE -	12/16/13	REVISED -	

**STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION**

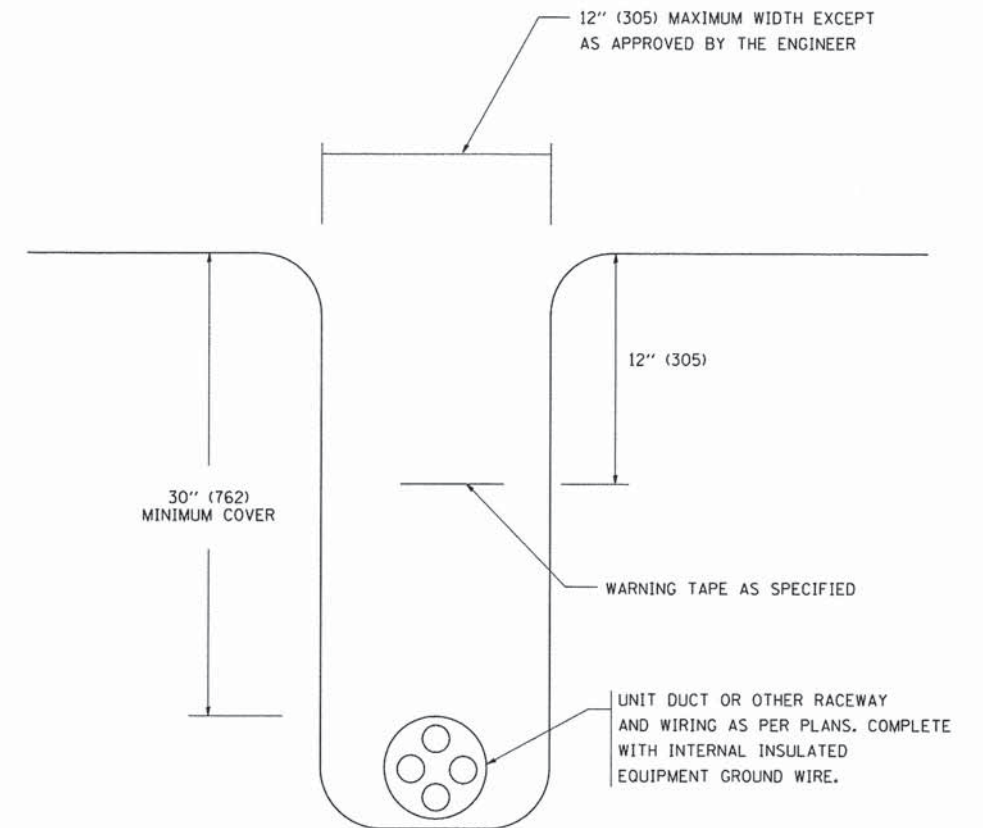
LIGHTING DETAILS

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

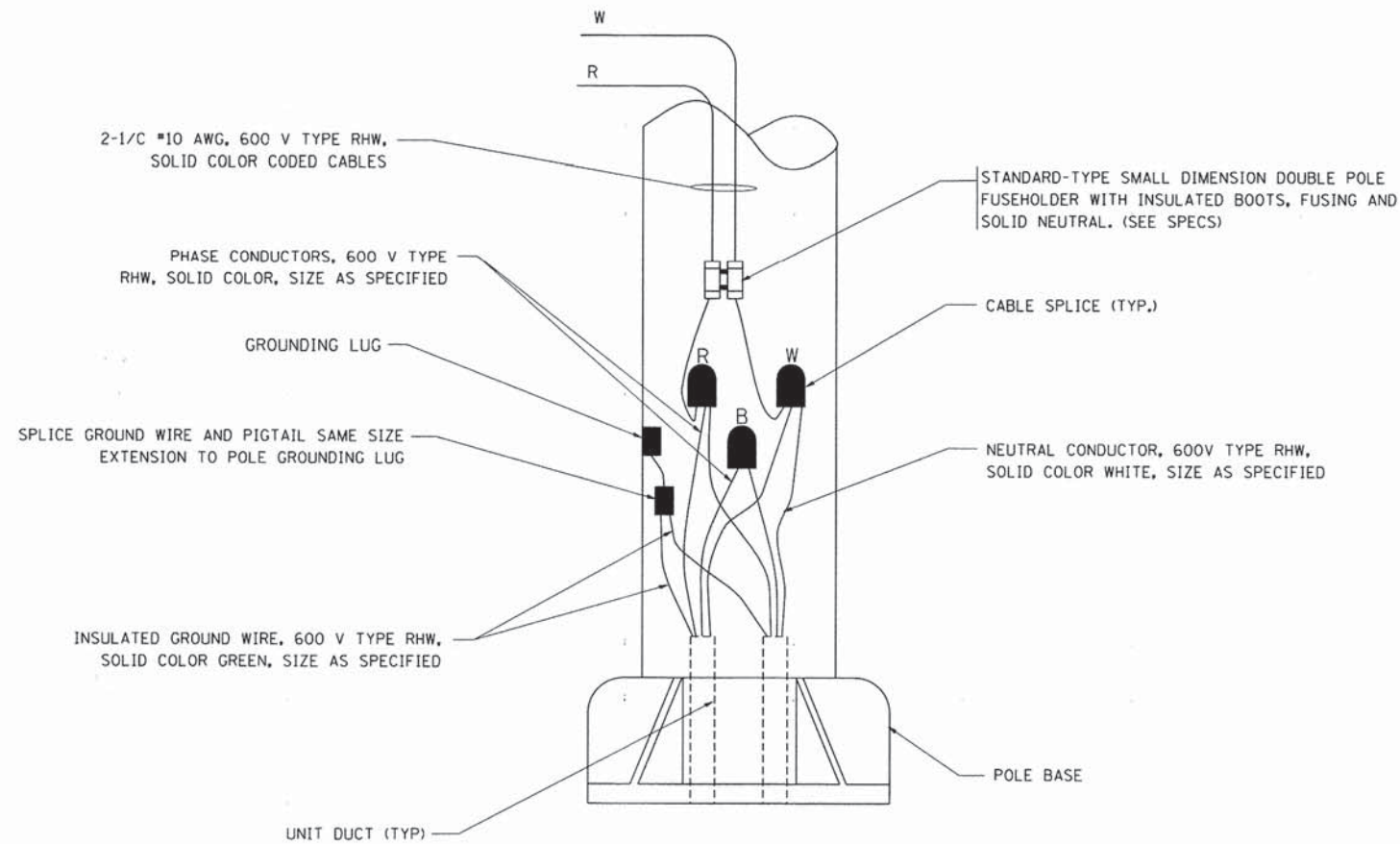
F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
567	12-00079-00-SW	COOK	61	38
FIELD BOOK NO.:		CONTRACT NO. 63768		
FED. ROAD DIST. NO. 1 ILLINOIS FED. AID PROJECT				



TYPICAL SPLICE DETAIL
N.T.S.



TYPICAL WIRING IN TRENCH DETAIL
N.T.S.



POLE WIRING DETAIL
N.T.S.

Drawing file: W:\Projects\12010016 - Roosevelt Road Streetscape\Roosevelt Rd\Electrical details.dwg Dec 16, 2013 - 11:11am

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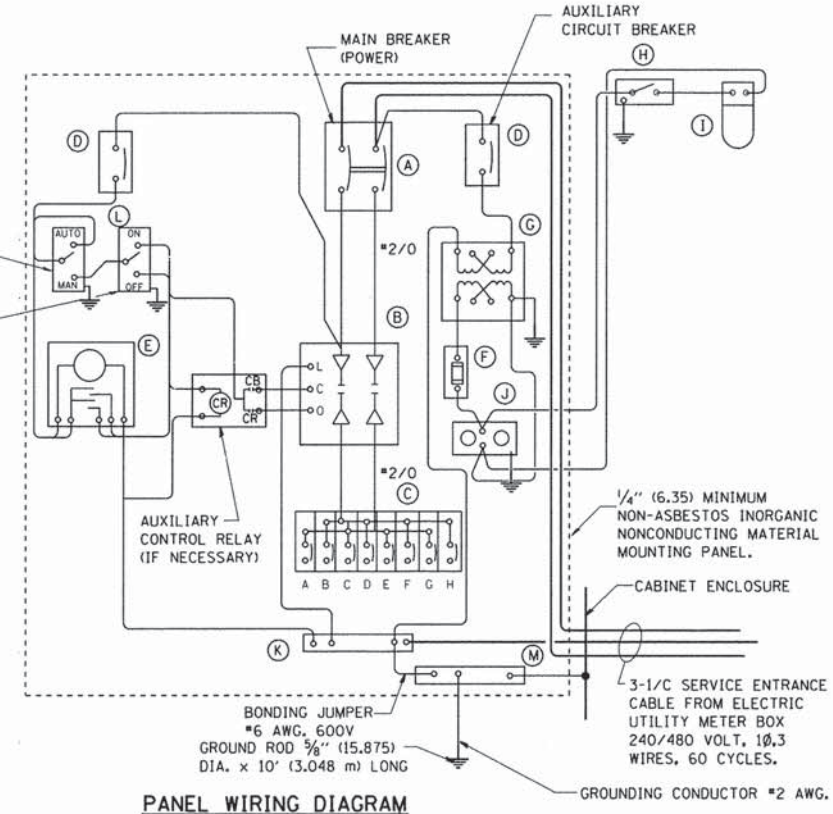
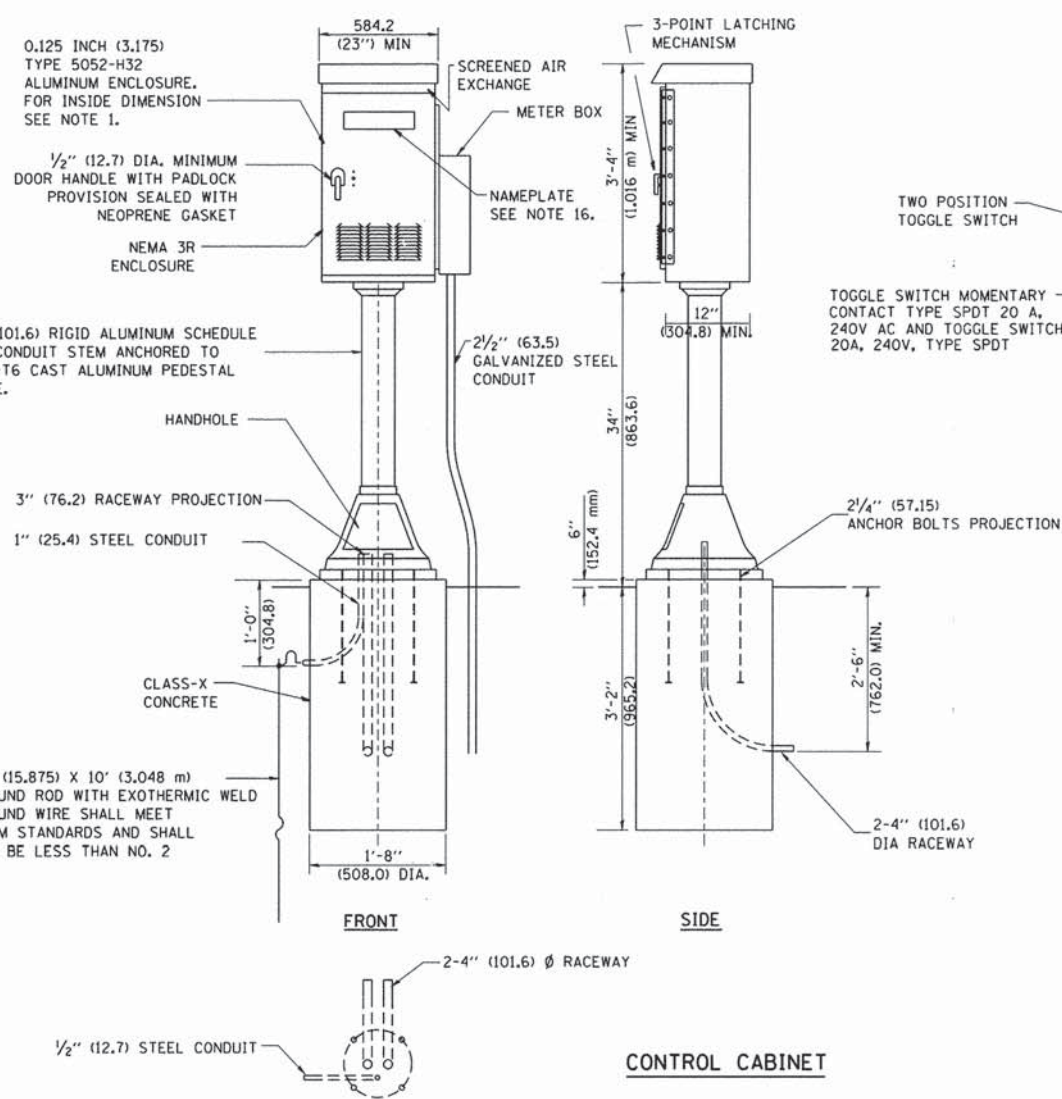
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PLOT DATE = 1/4/2009	CHECKED -	REVISED -
	DATE -	REVISED -

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

MISC. ELECTRICAL DETAILS
SHEET A

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

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
567	12-00079-00-SW	COOK	61	39
BE-702		CONTRACT NO. 63768		
FED. ROAD DIST. NO. 1 ILLINOIS FED. AID PROJECT				



PANEL EQUIPMENT		
BILL OF MATERIAL		
ITEM	QUANTITY	DESCRIPTION
A	1	MAIN CIRCUIT BREAKER, 2 POLE, 600 VOLT 100 AMP. FRAME, 100 AMP. NON-INTERCHANGEABLE TRIP INTERRUPTING RATING NEMA-22000 AMP. AT 480 VOLT.
B	1	REMOTE CONTROL SWITCH, ELECTRICALLY OPERATED, MECHANICALLY HELD, 2 POLE, SINGLE THROW, 100 AMP., 600 VOLTS CONTROL CIRCUIT 240 VOLT.
C	8	CIRCUIT BREAKERS, 1 POLE, 277V., 100 AMP., FRAME 50 AMP. NON-INTERCHANGEABLE TRIP INTERRUPTING RATING NEMA-10,000 AMP. AT 240 V.
D	2	CONTROL CIRCUIT-CIRCUIT BREAKER, 1 POLE, 240 V., 100 AMP. FRAME, 15 AMP. NON-INTERCHANGEABLE TRIP INTERRUPTING RATING NEMA-5000 AMP. AT 240 V.
E	1	ASTRONOMIC MICROPROCESSOR-BASED 2-CHANNEL CONTROLLER [TIME SWITCH].
F	1	20 A., 120 V. FUSE.
G	1	1.5 KVA, SINGLE PHASE, ENCAPSULATED TRANSFORMER 240 X 480 / 120 X 240 VOLT, 60 Hz.
H	1	SPST 20A SWITCH ON DOOR, TO TURN LIGHT ON WHEN DOOR IS OPEN.
I	1	INCANDESCENT LIGHTING FIXTURE ENCLOSED AND GASKETED WITH 60 WATT, 120 V. LAMP.
J	1	20 A., 120 V., DUPLEX RECEPTACLE, GFCI.
K	1	COPPER GROUND BUS 1/4" (6.35) X 1" (25.4) X 12" (304.8 mm) LONG MOUNTED ON PANEL WITH LUGS AND 4 SPARE LUGS
L	1	TOGGLE SWITCHES MOUNTED IN 4" (101.6) X 4" (101.6 mm) BOX.
M	1	COPPER GROUND BUS 1/4" (6.35) X 1" (25.4) X 12" (304.8 mm) LONG MOUNTED ON PANEL WITH LUGS AND SPARE LUGS

CONTROL CABINET

NOTES:

- ALL DIMENSIONS ARE IN INCHES (MILLIMETERS) UNLESS OTHERWISE SHOWN.
- UNLESS OTHERWISE INDICATED, THE CABINET SHALL BE MOUNTED ATOP A 4-INCH (101.6 mm) RIGID ALUMINUM SCHEDULE 40 CONDUIT STEM ANCHORED TO A CAST ALUMINUM PEDESTAL BASE.
- IN FRONT OF CONTROL CABINET DOOR, REMOVE VEGETATION AND 2" (50.8 mm) TOP SOIL, LEVEL THE AREA AND ON TOP, PLACE LENGTH WISE PARALLEL TO CONTROL CABINET, A CONCRETE PAD 36" (914.4 mm) x 60" (1524 mm) x 4" (101 mm) MIN. SIZE. THE COST OF LABOR AND MATERIALS ARE INCLUDED IN THE COST OF THE CONTROLLER.
- DOOR SHALL BE CONSTRUCTED FROM SAME TYPE OF MATERIAL AND THICKNESS AS CABINET.
- DOOR SHALL BE EQUIPPED WITH THREE POINT LATCHING MECHANISM WITH NYLON ROLLERS AT TOP THE BOTTOM.
- DOOR HINGE SHALL BE A HEAVY GAUGE CONTINUOUS HINGE WITH A 1/4" (6.35 mm) DIA. STAINLESS STEEL HINGE PIN.
- ALL EXTERNAL HARDWARE SHALL BE STAINLESS STEEL.
- CONTROL WIRING TO BE #12 AWG, 600V, TYPE "SIS" GRAY SWITCH BOARD WIRE, STRANDED COPPER.
- METER BOX SHALL BE MOUNTED ON THE SIDE OF CONTROL CABINET, NEAR TO THE SERVICE POLE.
- CABINETS SHALL BE PRIMED AND PAINTED AS SPECIFIED.
- THE HEADS OF CONNECTORS SCREWS SHALL BE PAINTED WHITE FOR NEUTRAL BAR CONNECTION AND GREEN FOR GROUND BAR CONNECTORS.
- ALL WIRING WITHIN THE CABINET SHALL BE COLOR CODED AS INDICATED.
R = RED BL = BLUE W = WHITE
B = BLACK Y = YELLOW G = GREEN
- PROVIDE SEALING GROMMETS FOR ALL OPEN WIRING EXTENDED FROM DEVICES IN BOXES OR CABINETS WITHIN THE CONTROL CABINET.
- ALL WIRING SHALL BE NEATLY DRESSED AND SUPPORTED.
- THE CONTROLLER SHALL BE CONSTRUCTED TO U.L. STD. 508 AND BEAR THE U.L. LABEL "ENCLOSED INDUSTRIAL CONTROL PANEL".
- 12" (304.8) X 16" (406.4 mm) STAINLESS STEEL EXTERIOR NAMEPLATE SHALL BE ENGRAVED TO "STATE OF ILLINOIS LIGHTING CONTROLS" UNLESS OTHERWISE SPECIFIED.

Drawing file: W:\Projects\12010016 - Roosevelt Road Streetscape\Rosevelt Rd\Electrical details.dwg Dec 16, 2013 - 11:12am

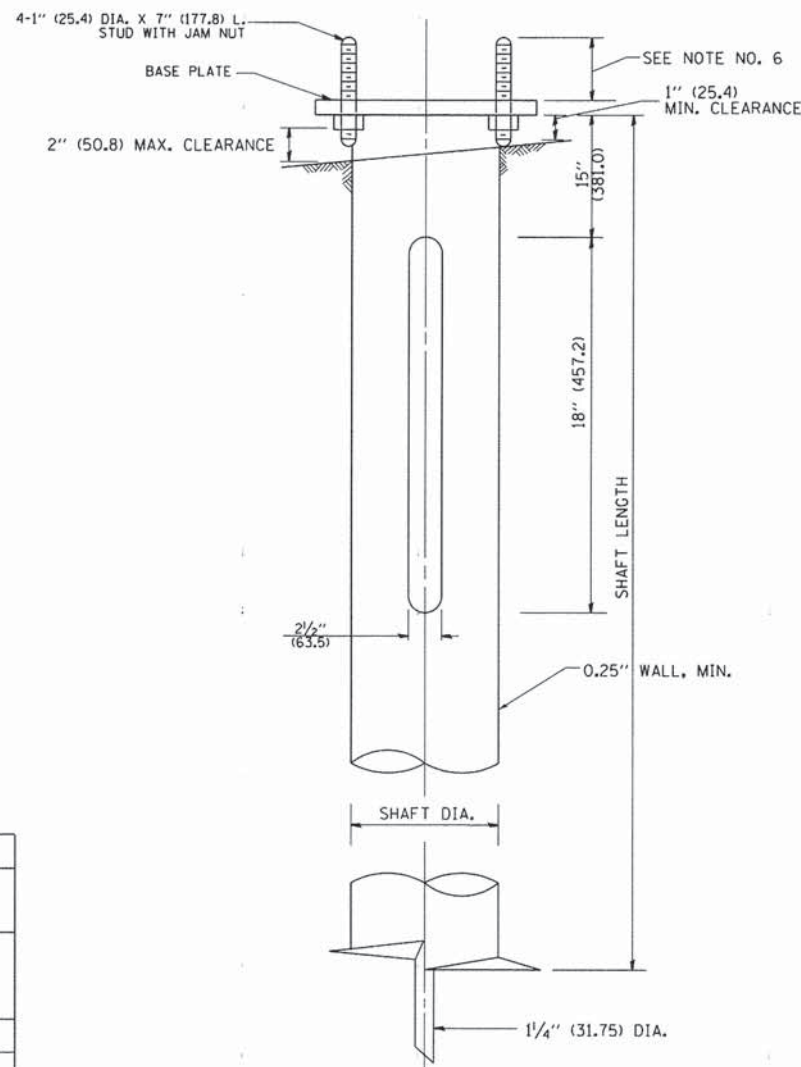
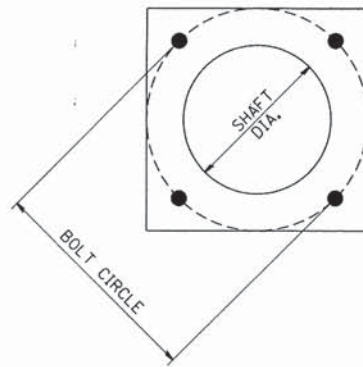
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PLOT DATE = 1/4/2008	DATE -		REVISED -

**STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION**

LIGHTING CONTROLLER PEDESTAL MOUNT			
SCALE: NONE	SHEET NO. 1 OF 1 SHEETS	STA.	TO STA.

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
567	12-00079-00-SW	COOK	61	40
BE-210			CONTRACT NO. 63768	
FED. ROAD DIST. NO. 1 (ILLINOIS) FED. AID PROJECT				

Drawing file: W:\Projects\12010016 - Roosevelt Road Streetscape\Roosevelt Rd\Electrical details.dwg Dec 16, 2013 - 11:12am



HELIX FOUNDATION SIZE

POLE MOUNTING HEIGHT	BOLT CIRCLE	SHAFT DIAMETER	SHAFT LENGTH	BASEPLATE
30 FT.-35 FT.	11 1/2"	8 5/8"	6 FT.	12"x12"x1"
31 FT.-35 FT.	11 1/2"	8 5/8"	6 FT.	12"x12"x1"
36 FT.-40 FT.	15"	8 5/8"	6 FT.	15"x15"x1 1/4"
41 FT.-45 FT.	15"	8 5/8"	6 FT.	15"x15"x1 1/4"
46 FT.-50 FT.	15"	10"	8 FT.	15"x15"x1 1/4"

METAL HELIX FOUNDATION MATERIALS

ITEM	MATERIAL REQUIREMENT
BASEPLATE	AASHTO M 270M, GRADE 36 (M270M, GRADE 250)
SHAFT	ASTM A 252, GRADE 2 (PHOSPHOROUS 0.04% MAXIMUM, SULFUR 0.05% MAXIMUM)
HELIX SCREW	AASHTO M 183 (ASTM A 635)
PILOT POINT	AASHTO M 270 (ASTM A 575)
ANCHOR RODS/STUDS	AASHTO M 314 (ASTM F 1554)
HEXAGON NUTS	AASHTO M 291M (ASTM A 563) GRADE DH, OR AASHTO M 292 (ASTM A 194) GRADE 2H
WASHERS	AASHTO M 293 (ASTM F 436)

NOTES:

1. ALL DIMENSION IN INCHES (MILLIMETERS) UNLESS OTHERWISE SHOWN.
2. ALL MATERIAL SHALL BE GALVINIZED ACCORDING TO AASHTO M111, UNLESS OTHERWISE SPECIFIED.
3. ALL WELDS SHALL BE CONTINUOUS AND NOT LESS THAN 1/4" (6.35 mm) FILLET WELDS. THE WELDED FOUNDATION SHALL BE CAPABLE OF WITHSTANDING 10,000 FT/LBS (13558.18 n.m) OF INSTALLATION TORQUE APPLIED ABOUT THE AXIS OF THE FOUNDATION.
4. THE HELIX FOUNDATION SHAFT SHALL BE INSTALLED VERTICAL AND THE BASE PLATE SHALL BE IN LEVEL. THE BREAKAWAY COUPLINGS AND HARDWARE SHALL NOT BE USED TO ALIGN THE POLE INSTALLATION.
5. THE CABLE TRENCH SHALL BE BACKFILLED AND FIRMLY COMPACTED BEFORE THE INSTALLATION OF THE LIGHT POLE.
6. THE CONTRACTOR SHALL COORDINATE EXTENSION OF ANCHOR BOLTS ABOVE TOP OF THE BASE PLATE WITH THE BREAKAWAY DEVICE MANUFACTURER'S REQUIREMENTS.
7. ANY VOIDS WITHIN THE METAL FOUNDATION SHALL BE FILLED WITH FINE AGGREGATE.
8. METAL FOUNDATIONS SHALL BE INSTALLED IN UNDISTURBED SOIL. PREDRILLING A PILOT HOLE AND/OR BACKFILLING AROUND THE FOUNDATION IS NOT ALLOWED.
9. THE METAL FOUNDATION SHALL NOT BE INSTALLED TO A TORQUE WHICH EXCEEDS THE MANUFACTURER'S MAXIMUM TORQUE RATING NOR SHALL IT BE INSTALLED TO AN INSTALLATION TORQUE VALUE OF LESS THAN 3,500 FT LB (4,750 KNM). METAL FOUNDATIONS THAT ARE NOT INSTALLED TO FULL INSTALLATION DEPTH OR DO NOT ACHIEVE THE MINIMUM INSTALLATION TORQUE SHALL BE REMOVED AND REPLACED WITH A CONCRETE FOUNDATION AT NO ADDITIONAL COST.
10. THE BASEPLATE SHALL BE PERPENDICULAR TO THE SHAFT AXIS (± 1°) AND THE HOLE CENTERLINE SHALL BE CONCENTRIC (± 0.188) TO THE SHAFT AXIS.
11. THE PILOT POINT AND SHAFT AXIS SHALL BE CONCENTRIC (± 0.125) AND IN LINE (± 2°).
12. THE BASEPLATE SHALL BE STAMPED WITH THE MANUFACTURERS NAME AND DATE OF MANUFACTURE.

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 PLOT DATE = 1/4/2008

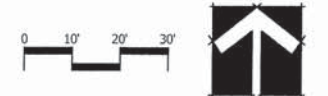
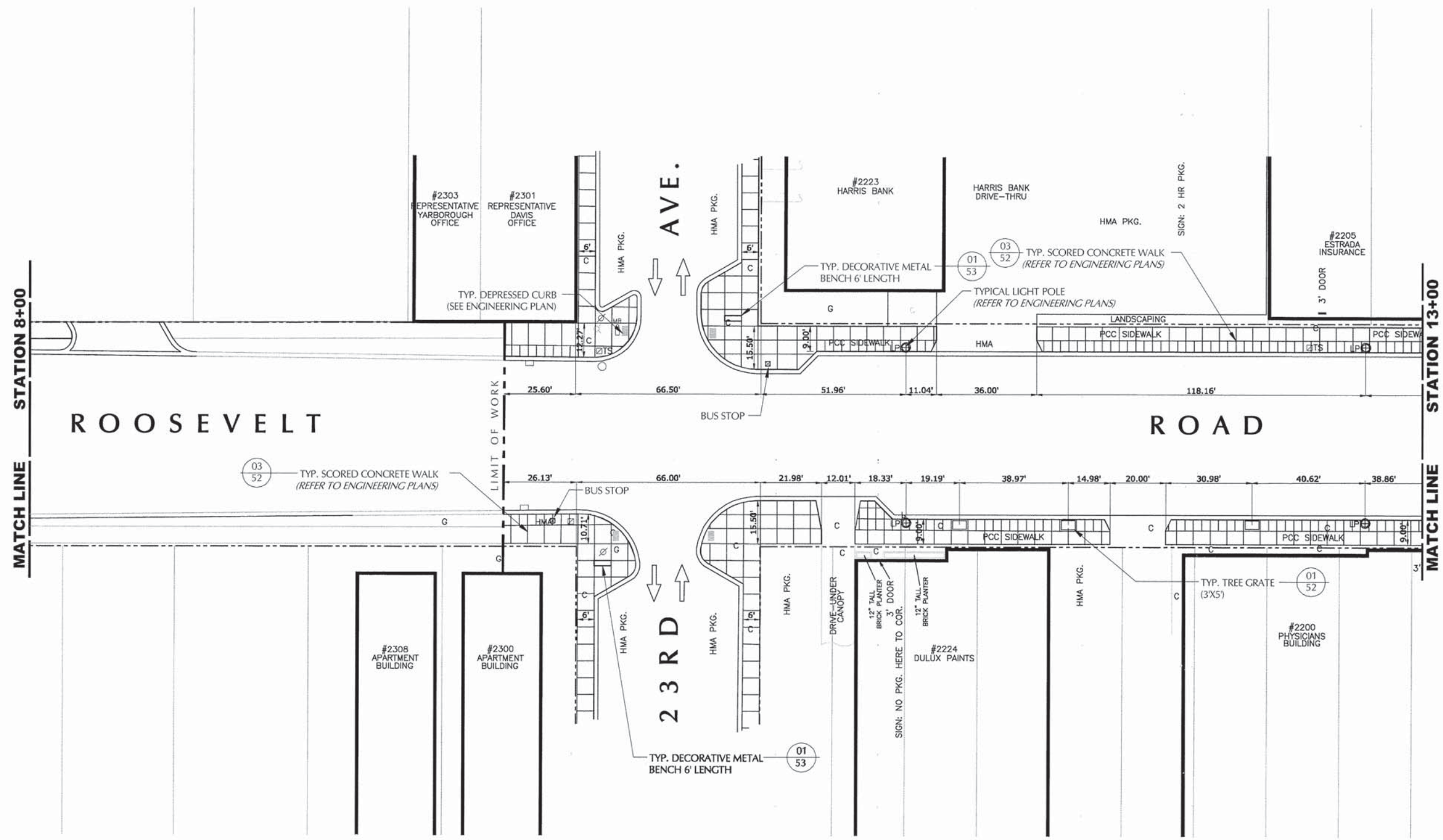
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 CHECKED -
 DATE - 02-27-07

REVISED -
 REVISED -
 REVISED -
 REVISED -

**STATE OF ILLINOIS
 DEPARTMENT OF TRANSPORTATION**

LIGHT POLE FOUNDATION, METAL
 SCALE: NONE SHEET NO. 1 OF 1 SHEETS STA. TO STA.

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
567	12-00079-00-SW	COOK	61	41
BE-305			CONTRACT NO. 63768	
FED. ROAD DIST. NO. 1 (ILLINOIS) FED. AID PROJECT				




 Community Planning
 Development Economics
 Landscape Architecture
 Site Design
 627 Grove Street
 Evanston, Illinois 60201
 Tel 847.869.2015
 Fax 847.869.2059

DESIGNED -	JZM	REVISED -	
DRAWN -	DNF/DS	REVISED -	
CHECKED -	JZM	REVISED -	
DATE -	12-16-13	REVISED -	

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

HARDSCAPE PLAN
 SCALE: AS SHOWN SHEET NO. 42 OF 61 SHEETS STA. 8+00 TO STA. 13+00

F.A.U. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
567	12-00079-00-SW	COOK	61	42
FIELD BOOK NO. : X		CONTRACT NO. 63768		
FED. ROAD DIST. NO. 1		ILLINOIS	FED. AID PROJECT	

STATION 13+00
MATCH LINE

STATION 18+00
MATCH LINE

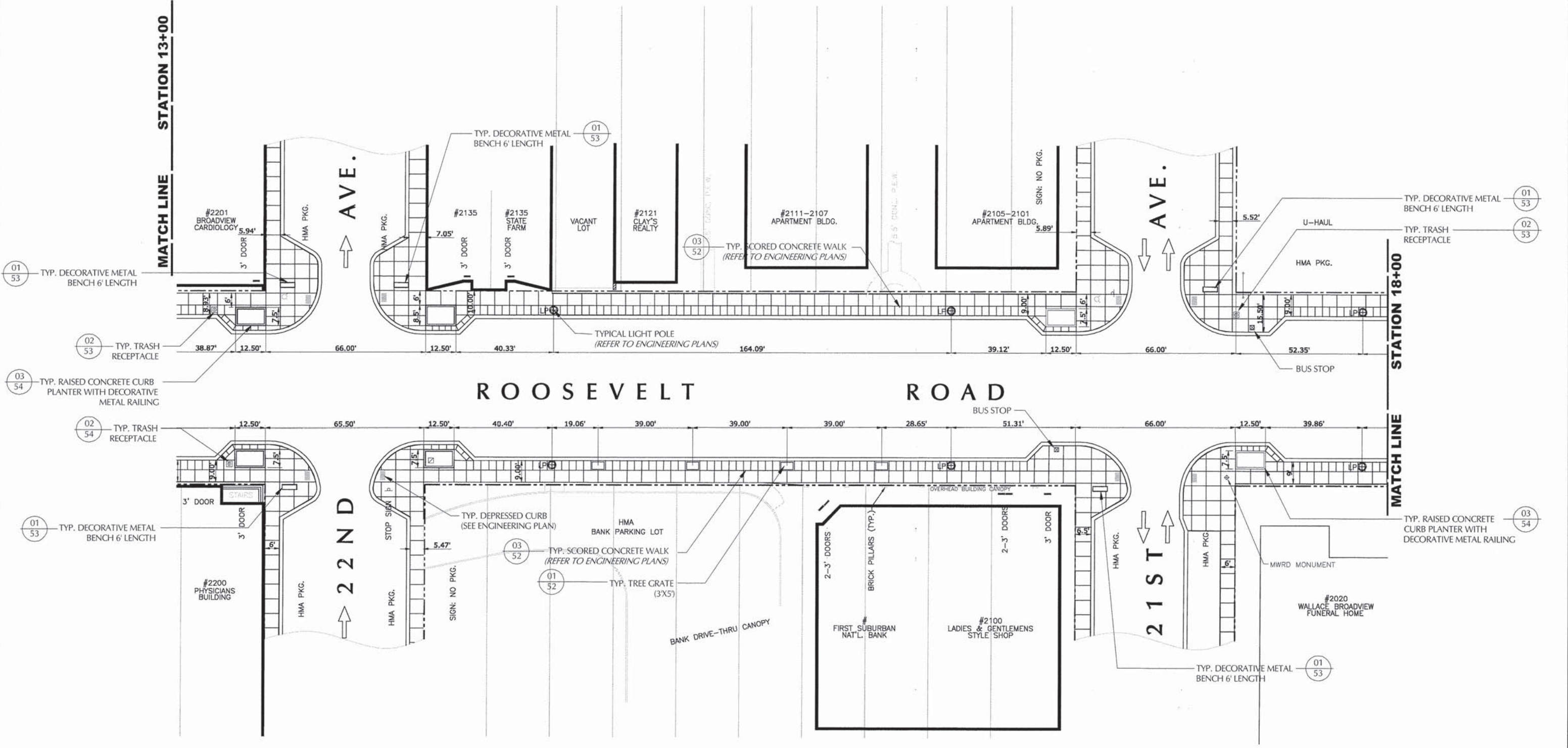
AVE.
↑

AVE.
↑

22ND
↑

21ST
↑

ROOSEVELT ROAD



01 53 TYP. DECORATIVE METAL BENCH 6' LENGTH

02 53 TYP. TRASH RECEPTACLE

03 54 TYP. RAISED CONCRETE CURB PLANTER WITH DECORATIVE METAL RAILING

02 54 TYP. TRASH RECEPTACLE

01 53 TYP. DECORATIVE METAL BENCH 6' LENGTH

03 52 TYP. SCORED CONCRETE WALK (REFER TO ENGINEERING PLANS)

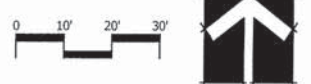
01 52 TYP. TREE GRATE (3'X5')

01 53 TYP. DECORATIVE METAL BENCH 6' LENGTH

02 53 TYP. TRASH RECEPTACLE

03 54 TYP. RAISED CONCRETE CURB PLANTER WITH DECORATIVE METAL RAILING

01 53 TYP. DECORATIVE METAL BENCH 6' LENGTH




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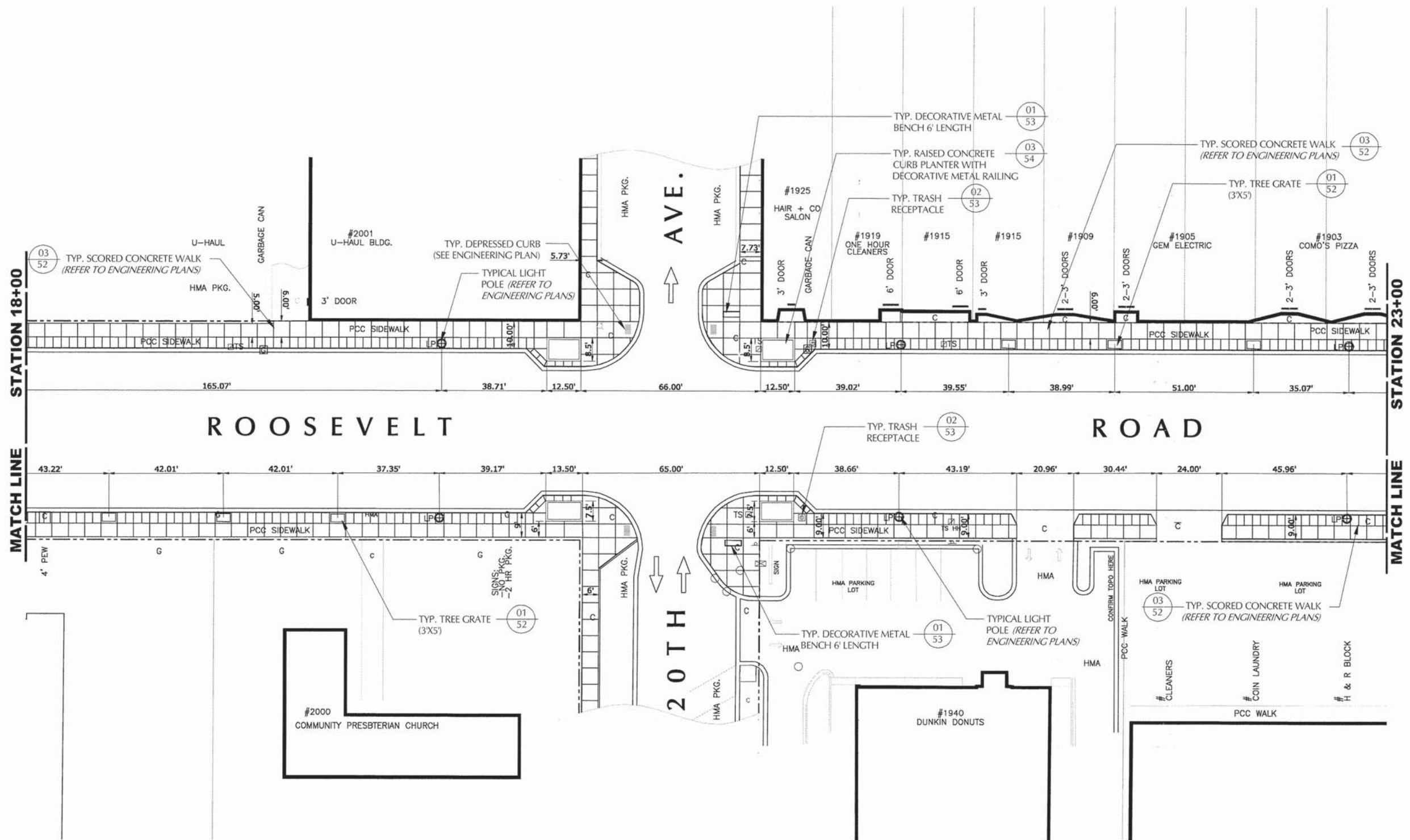
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CHECKED -	JZM	REVISED -	
DATE -	12-16-13	REVISED -	

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

HARDSCAPE PLAN

SCALE: AS SHOWN SHEET NO. 43 OF 61 SHEETS STA. 13+00 TO STA. 18+00

F.A.U. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
567	12-00079-00-SW	COOK	61	43
FIELD BOOK NO.: X		CONTRACT NO. 63768		
FED. ROAD DIST. NO. 1 ILLINOIS FED. AID PROJECT				




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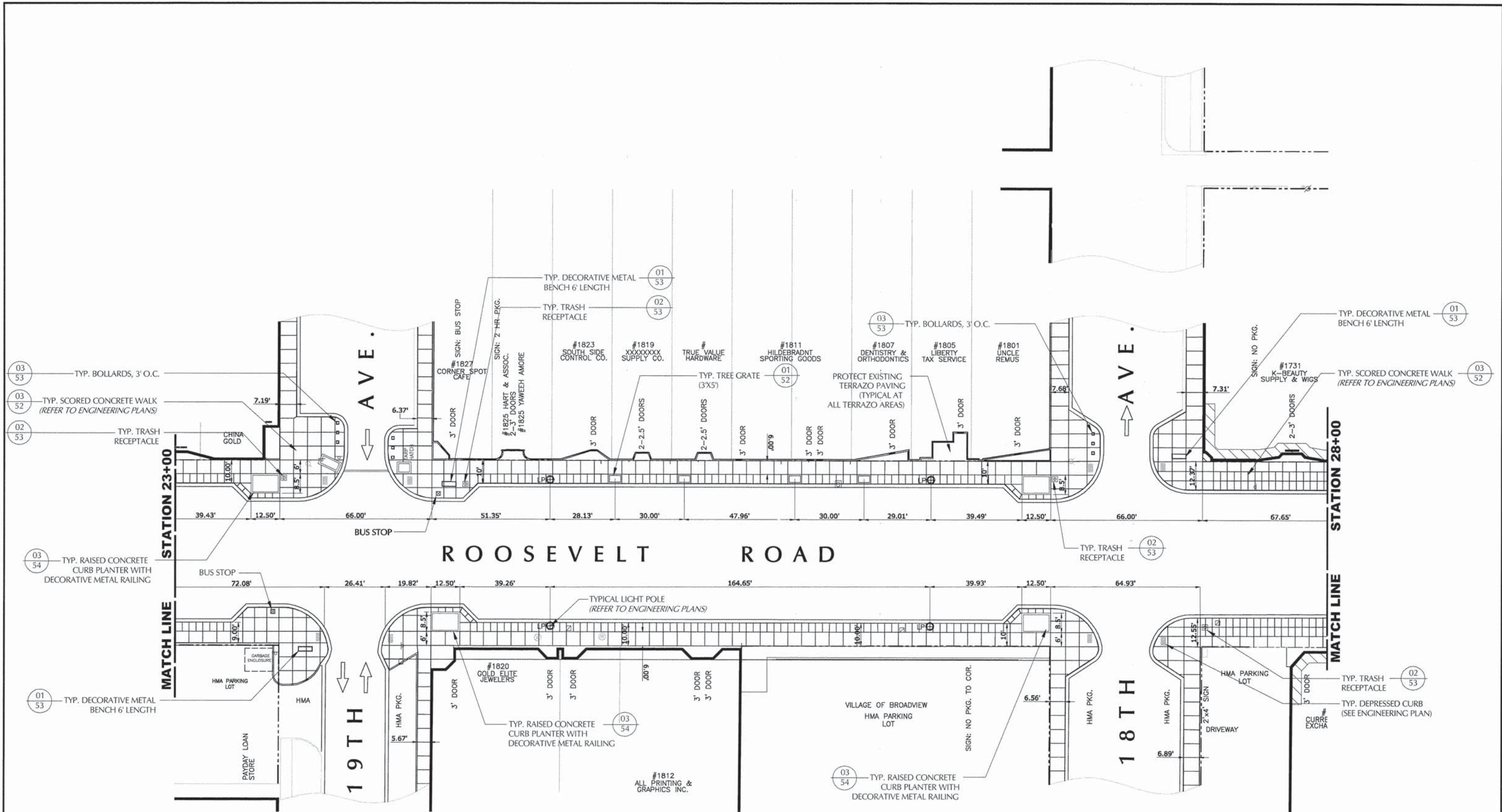
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DRAWN -	DNF/DS	REVISED -	
CHECKED -	JZM	REVISED -	
DATE -	12-16-13	REVISED -	

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

HARDSCAPE PLAN

SCALE: AS SHOWN SHEET NO. 44 OF 61 SHEETS STA. 18+00 TO STA. 23+00

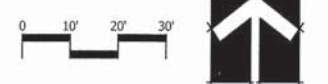
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567	12-00079-00-SW	COOK	61	44
FIELD BOOK NO.: X		CONTRACT NO. 63768		
FED. ROAD DIST. NO. 1 ILLINOIS FED. AID PROJECT				



- 03 53 TYP. BOLLARDS, 3' O.C.
- 03 52 TYP. SCORED CONCRETE WALK (REFER TO ENGINEERING PLANS)
- 02 53 TYP. TRASH RECEPTACLE

- 03 54 TYP. RAISED CONCRETE CURB PLANTER WITH DECORATIVE METAL RAILING

- 01 53 TYP. DECORATIVE METAL BENCH 6' LENGTH



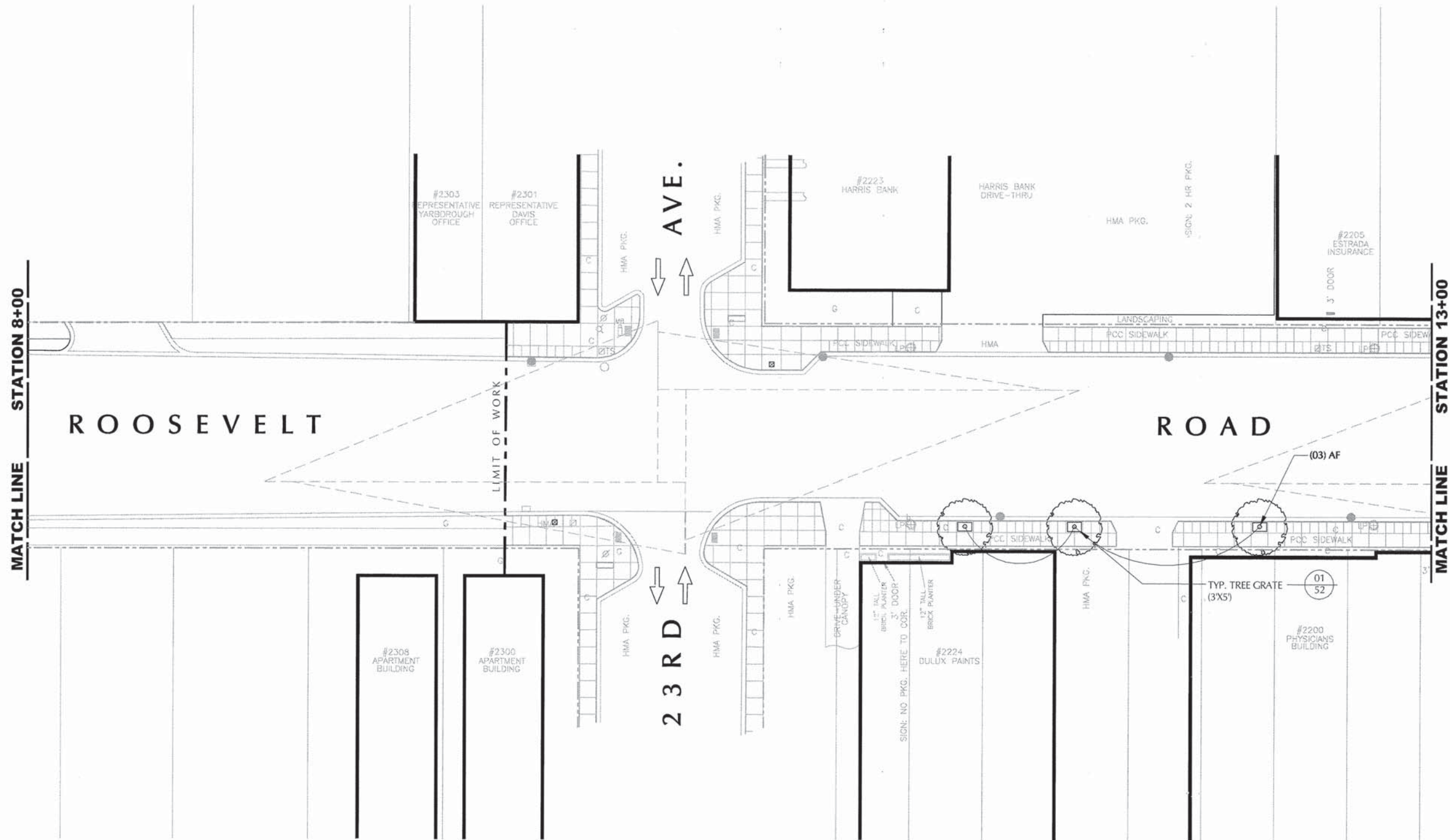

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 Evanston, Illinois 60201
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 Fax 847.869.2059

DESIGNED -	JZM	REVISED -	
DRAWN -	DNF/DS	REVISED -	
CHECKED -	JZM	REVISED -	
DATE -	12-16-13	REVISED -	

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

HARDSCAPE PLAN
 SCALE: AS SHOWN SHEET NO. 45 OF 61 SHEETS STA. 23+00 TO STA. 28+00

F.A.U. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
567	12-00079-00-SW	COOK	61	45
FIELD BOOK NO.: X		CONTRACT NO. 63768		
FED. ROAD DIST. NO. 1 ILLINOIS FED. AID PROJECT				



NOTE: SEE SHEET 55 FOR OVERALL PLANT LIST

CLEAR SIGHT TRIANGLE SHOWN PER I.D.O.T.
 BUREAU OF LOCAL ROADS & STREETS:
 DESIGN SPEED = 30 MPH;
 INTERSECTION SIGHT DISTANCE = 140'-0"



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627 Grove Street
 Evanston, Illinois 60201
 Tel 847.869.2015
 Fax 847.869.2059

DESIGNED -	JZM	REVISED -	
DRAWN -	DNF/DS	REVISED -	
CHECKED -	JZM	REVISED -	
DATE -	12-16-13	REVISED -	

STATE OF ILLINOIS
 DEPARTMENT OF TRANSPORTATION

LANDSCAPE PLAN

SCALE: AS SHOWN SHEET NO. 47 OF 61 SHEETS STA. 8+00 TO STA. 13+00

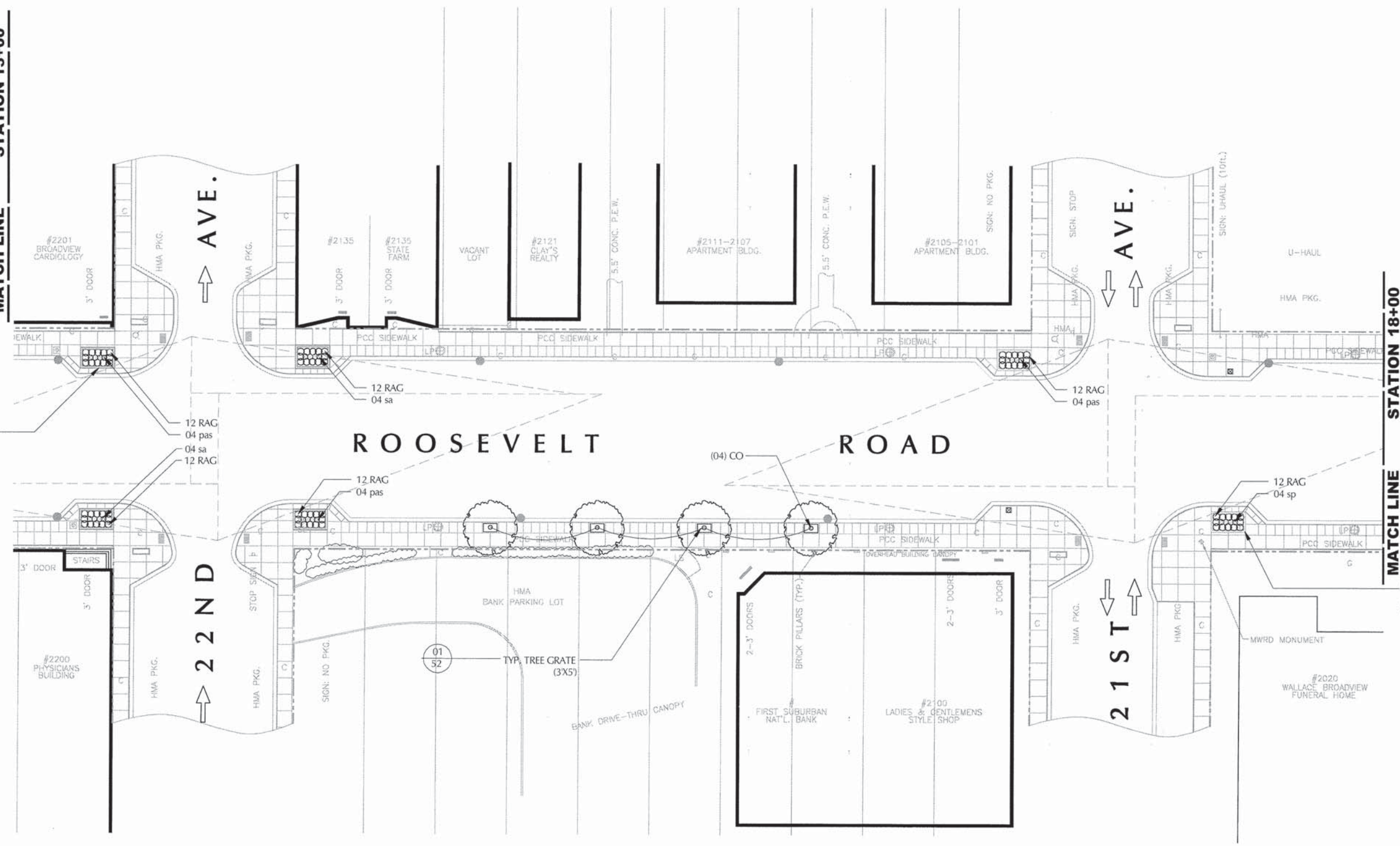
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567	12-00079-00-SW	COOK	61	47
FIELD BOOK NO.: X		CONTRACT NO. 63768		
FED. ROAD DIST. NO. 1		ILLINOIS	FED. AID PROJECT	

MATCH LINE STATION 13+00

MATCH LINE STATION 18+00

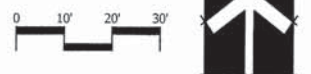
03
54 TYP. RAISED CONCRETE CURB
PLANTER WITH DECORATIVE
METAL RAILING

03
54 TYP. RAISED CONCRETE
CURB PLANTER WITH
DECORATIVE METAL RAILING



NOTE: SEE SHEET 55 FOR OVERALL PLANT LIST

CLEAR SIGHT TRIANGLE SHOWN PER I.D.O.T.
BUREAU OF LOCAL ROADS & STREETS:
DESIGN SPEED = 30 MPH;
INTERSECTION SIGHT DISTANCE = 140'-0"



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Development Economics
Landscape Architecture
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Evanston, Illinois 60201
Tel 847.869.2015
Fax 847.869.2059

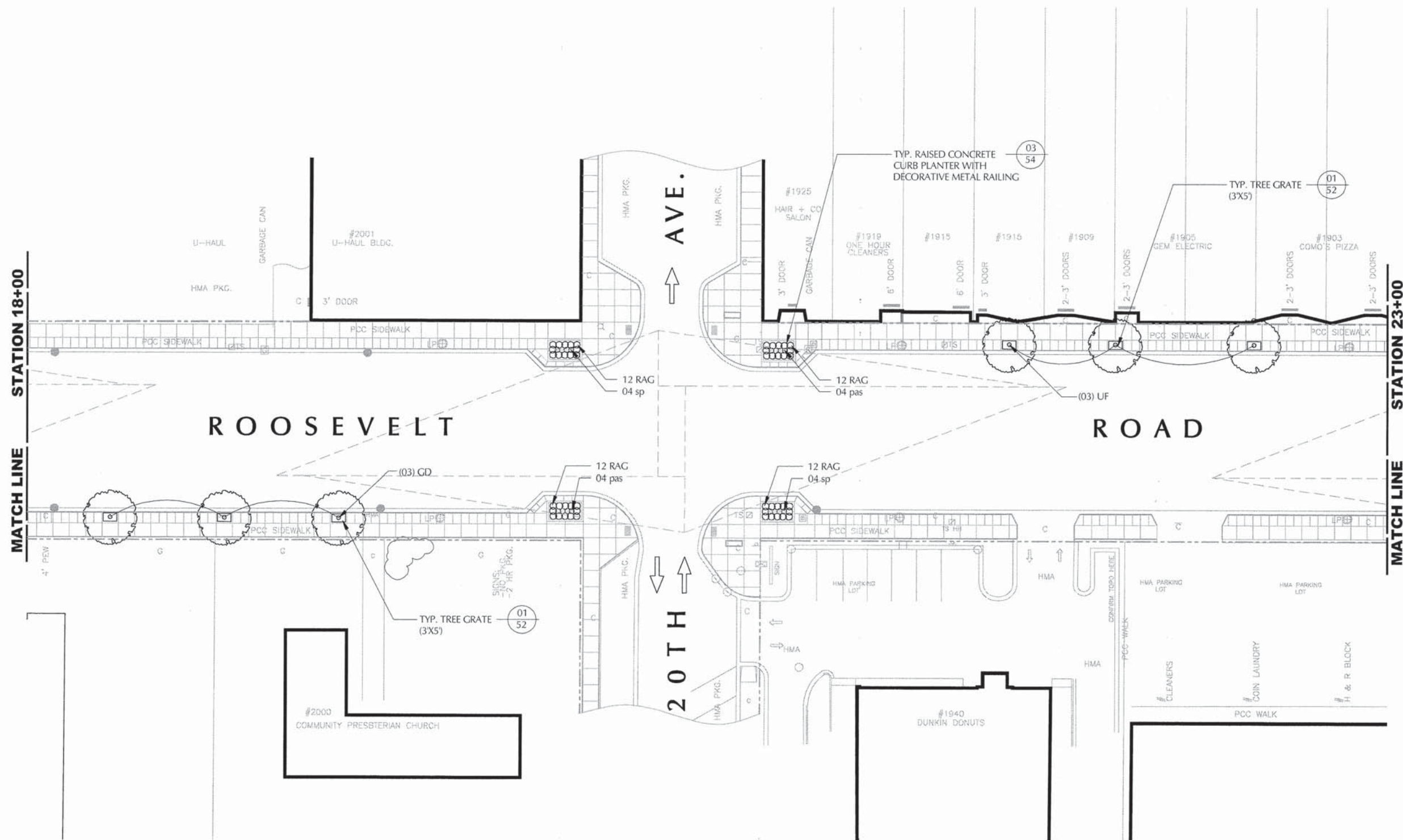
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DRAWN -	DNF/DS	REVISED -	
CHECKED -	JZM	REVISED -	
DATE -	12-16-13	REVISED -	

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LANDSCAPE PLAN

SCALE: AS SHOWN SHEET NO. 48 OF 61 SHEETS STA. 13+00 TO STA. 18+00

F.A.U. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
567	12-00079-00-SW	COOK	61	48
FIELD BOOK NO. : X		CONTRACT NO. 63768		
FED. ROAD DIST. NO. 1		ILLINOIS FED. AID PROJECT		



NOTE: SEE SHEET 55 FOR OVERALL PLANT LIST

CLEAR SIGHT TRIANGLE SHOWN PER I.D.O.T.
 BUREAU OF LOCAL ROADS & STREETS:
 DESIGN SPEED = 30 MPH;
 INTERSECTION SIGHT DISTANCE = 140'-0"




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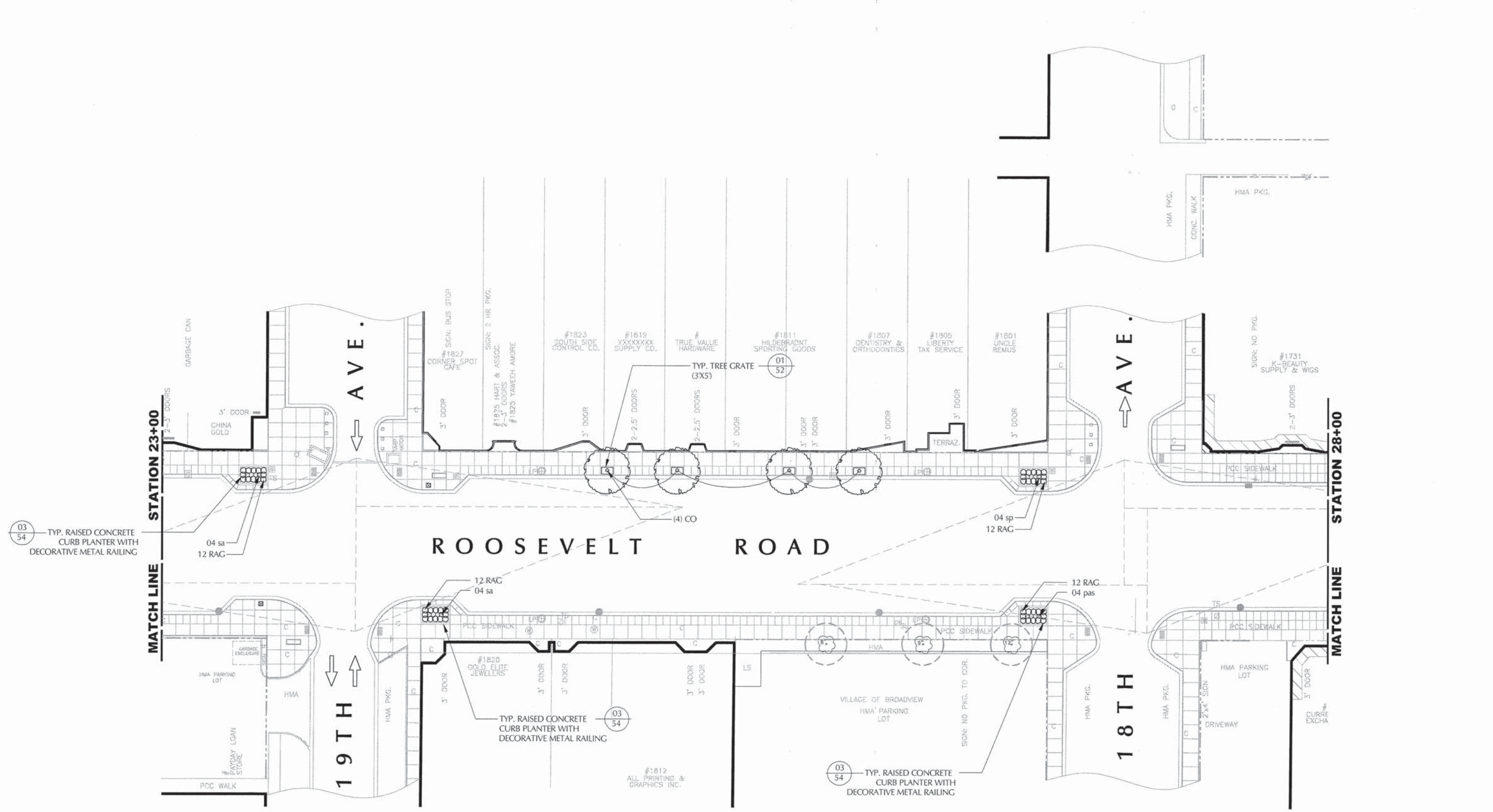
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DRAWN -	DNF/DS	REVISED -	
CHECKED -	JZM	REVISED -	
DATE -	12-16-13	REVISED -	

STATE OF ILLINOIS
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LANDSCAPE PLAN

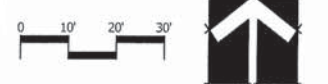
SCALE: AS SHOWN SHEET NO. 49 OF 61 SHEETS STA. 18+00 TO STA. 23+00

F.A.U. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
567	12-00079-00-SW	COOK	61	49
FIELD BOOK NO. : X		CONTRACT NO. 63768		
FED. ROAD DIST. NO. 1		ILLINOIS	FED. AID PROJECT	



NOTE: SEE SHEET 55 FOR OVERALL PLANT LIST

CLEAR SIGHT TRIANGLE SHOWN PER I.D.O.T. BUREAU OF LOCAL ROADS & STREETS:
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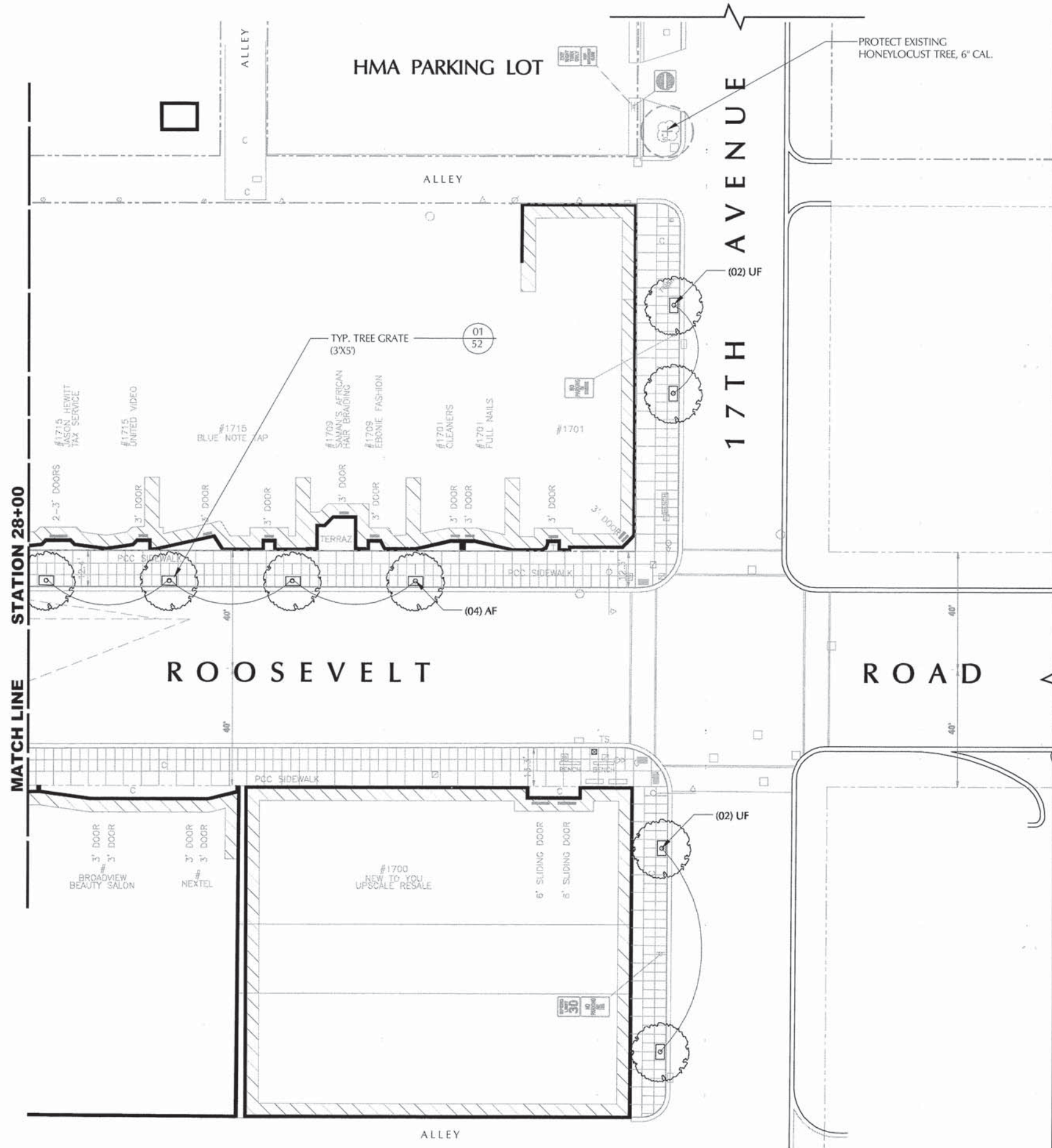
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DATE -	12-16-13	REVISED -	

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LANDSCAPE PLAN

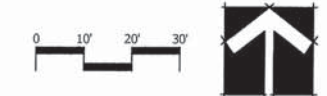
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F.A.U. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
567	12-00079-00-SW	COOK	61	50
FIELD BOOK NO. : X		CONTRACT NO. 63768		
FED. ROAD DIST. NO. 1		ILLINOIS	FED. AID PROJECT	



NOTE: SEE SHEET 55 FOR OVERALL PLANT LIST

CLEAR SIGHT TRIANGLE SHOWN PER I.D.O.T.
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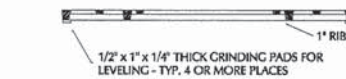
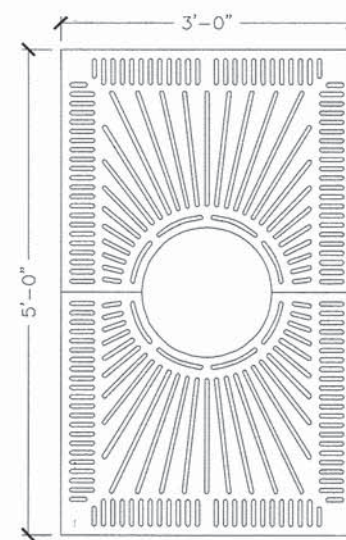
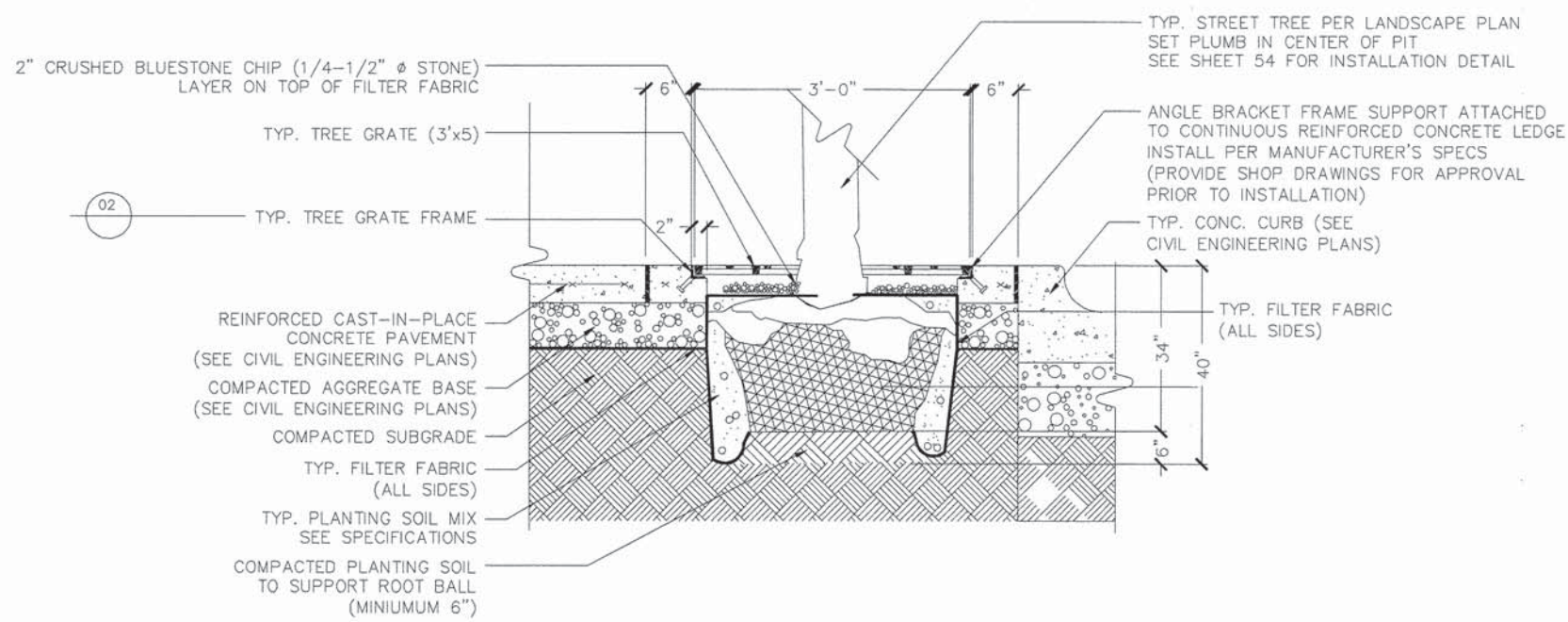
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DATE -	12-16-13	REVISED -	

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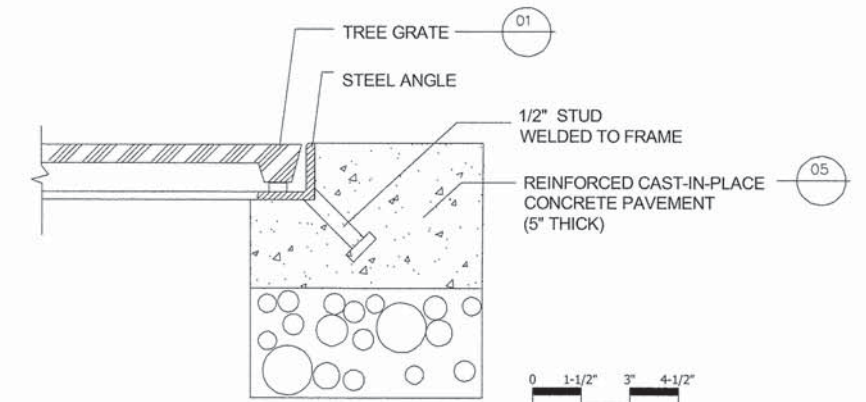
LANDSCAPE PLAN

SCALE: AS SHOWN SHEET NO. 51 OF 61 SHEETS STA. 28+00 TO STA. END

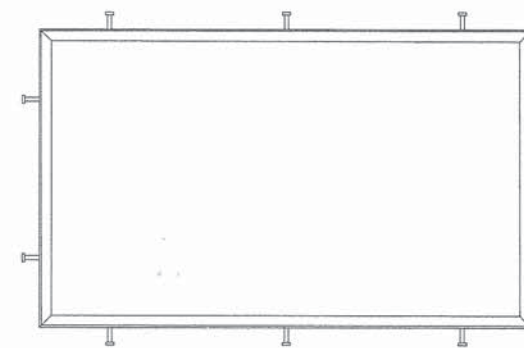
F.A.U. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
567	12-00079-00-SW	COOK	61	51
FIELD BOOK NO. : X		CONTRACT NO. 63768		
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TREE GRATE
 SIZE: 36" X 60"
 TREE OPENING: 18"
 FINISH: *Natural Unfinished Iron*

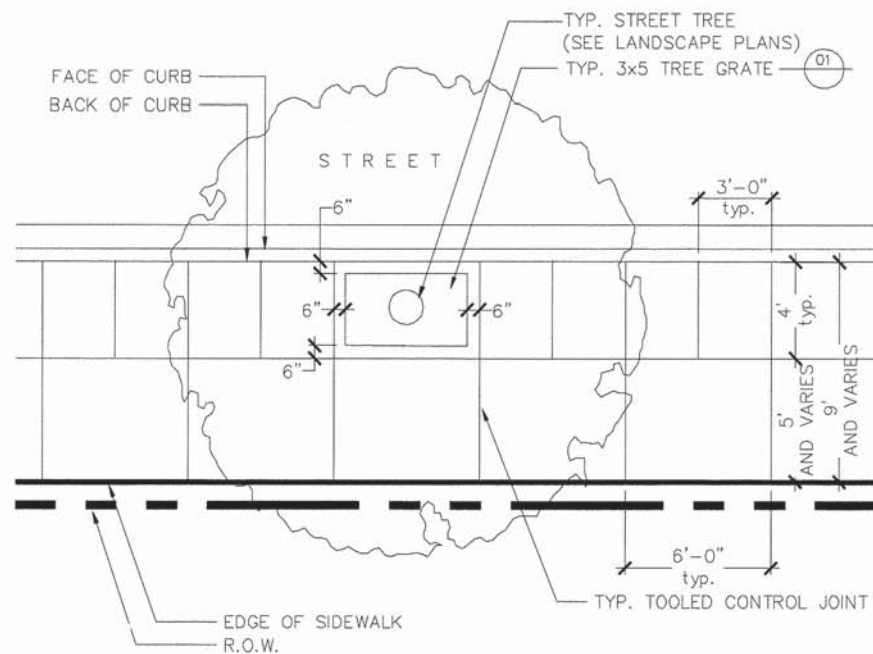


TREE GRATE FRAME INSTALLATION DETAIL
 STANDARD CONCRETE ANCHOR
 (INSTALL AS PER MANUFACTURER'S RECOMMENDATIONS)
 PROVIDE SHOP DRAWINGS FOR APPROVAL PRIOR TO INSTALLATION



RECTANGULAR
 TREEGRATE FRAME
 WITH STANDARD
 CONCRETE ANCHORS
 FRAME JIG WELDED
 FROM
 STEEL ANGLE
 ANCHORS 1/2"
 ANCHORS MACHINE
 WELDED TO FRAME
 FRAME TO MATCH GRATE

1 Typical Cast Iron Tree Grate Detail



NOTES:
 CONTROL JOINTS SHALL BE ALIGNED THROUGHOUT ALL SIDEWALK AREAS.
 MAINTAIN SPECIFIED JOINT SPACING AT AND ADJACENT TO TREE GRATES,
 TRANSITION AS NECESSARY BETWEEN TREE GRATE AREAS.

3 Typical Concrete Walk Scoring



2 Typical Cast Iron Tree Grate Frame Detail



NOTE APPLIES TO ALL SITE FURNISHINGS AND PRODUCTS:
 CONTRACTOR SHALL PROVIDE SHOP DRAWINGS FOR
 APPROVAL PRIOR TO INSTALLATION.



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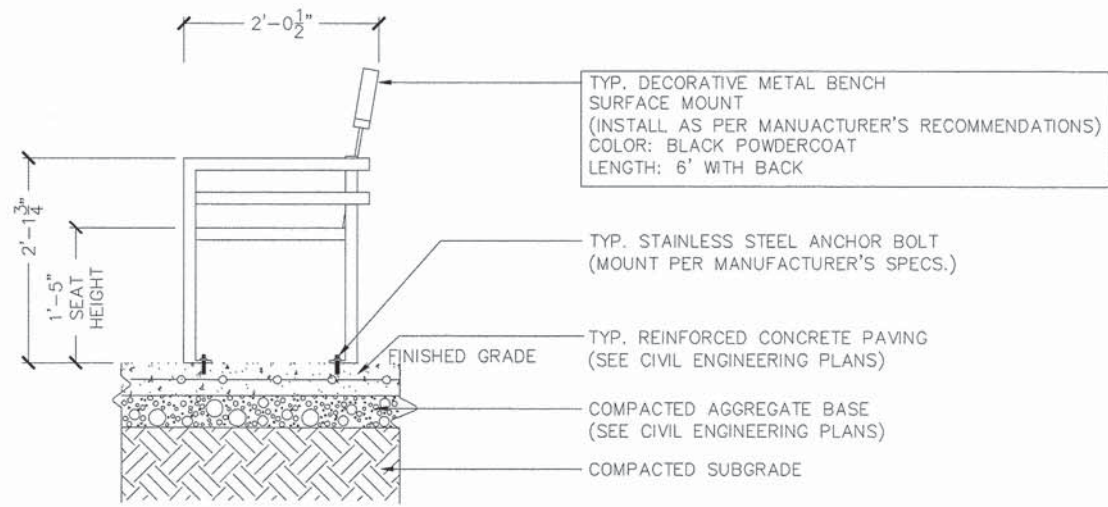
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DATE -	12-16-13	REVISED -	

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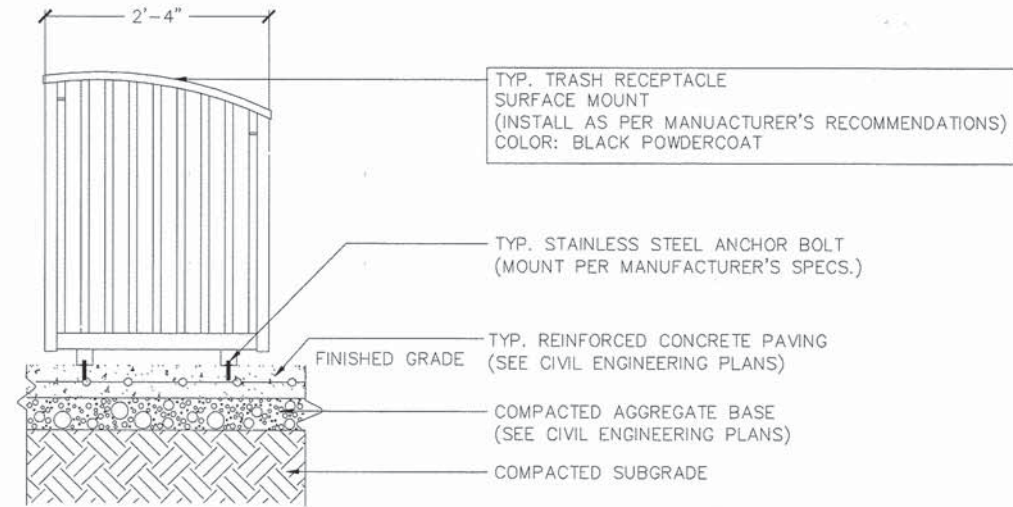
STREETSCAPE MATERIALS & PRODUCTS

SCALE: _____ SHEET NO. 52 OF 61 SHEETS STA. _____ TO STA. _____

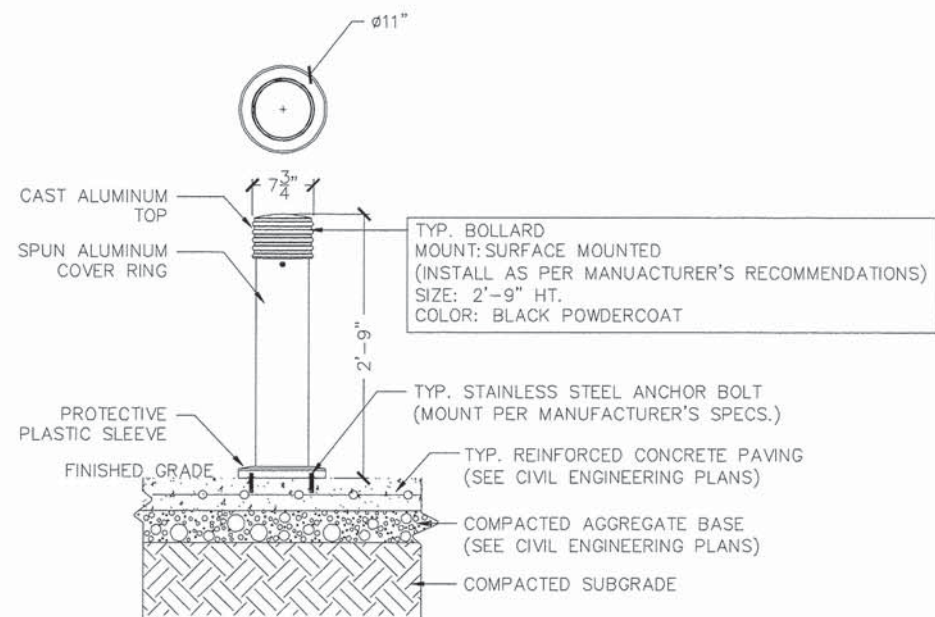
F.A.U. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
567	12-0079-00-SW	COOK	61	52
FIELD BOOK NO. : X		CONTRACT NO. 63768		
FED. ROAD DIST. NO. 1 ILLINOIS FED. AID PROJECT				



1 Typical Bench Detail



2 Typical Trash Receptacle Detail



3 Typical Bollard



NOTE APPLIES TO ALL SITE FURNISHINGS AND PRODUCTS:
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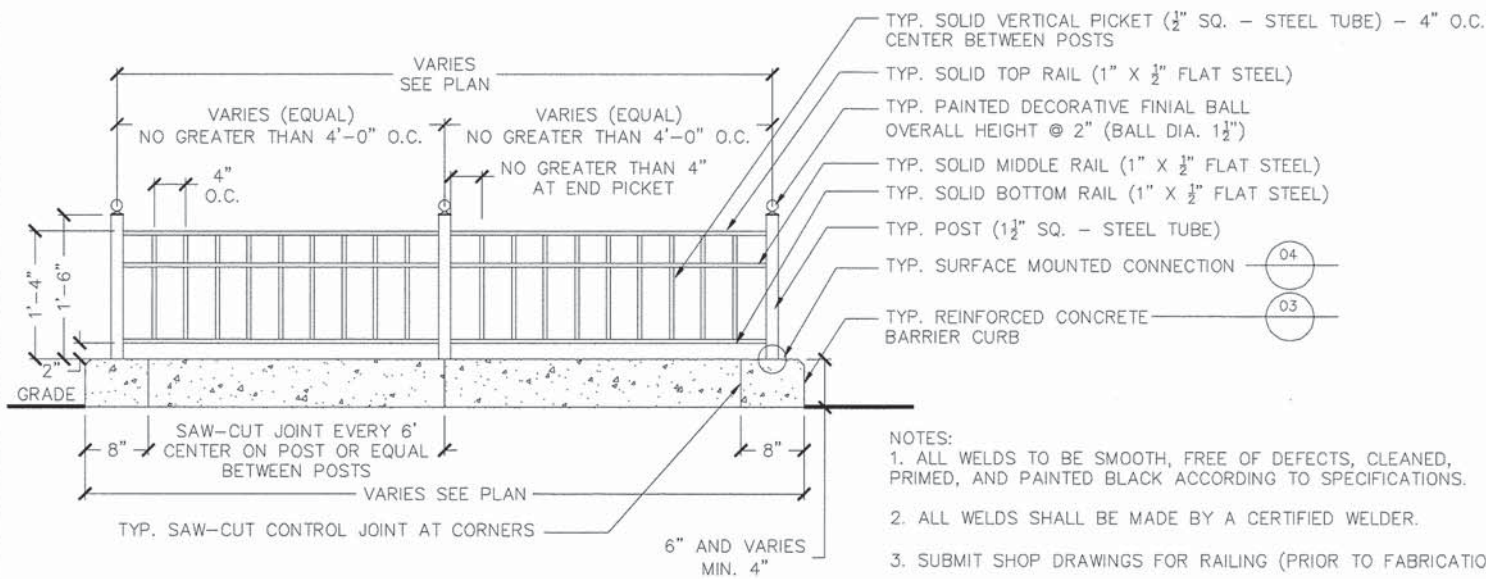
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STREETSCAPE MATERIALS & PRODUCTS

SCALE: _____ SHEET NO. 53 OF 61 SHEETS STA. _____ TO STA. _____

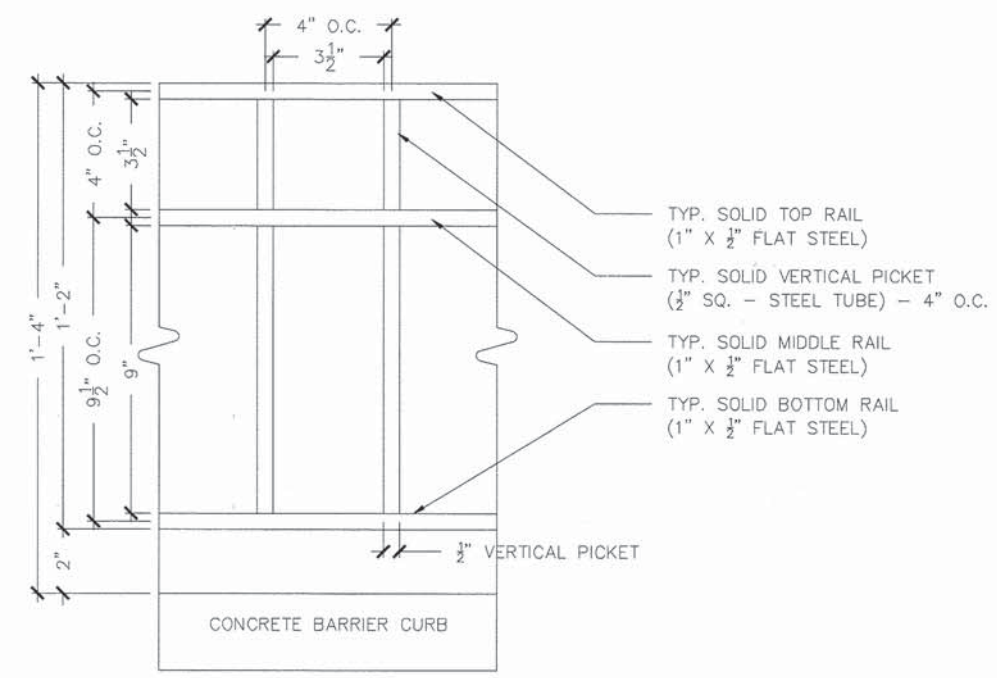
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567	12-00079-00-SW	COOK	61	53
FIELD BOOK NO. : X			CONTRACT NO. 63768	
FED. ROAD DIST. NO. 1 ILLINOIS FED. AID PROJECT				



NOTES:

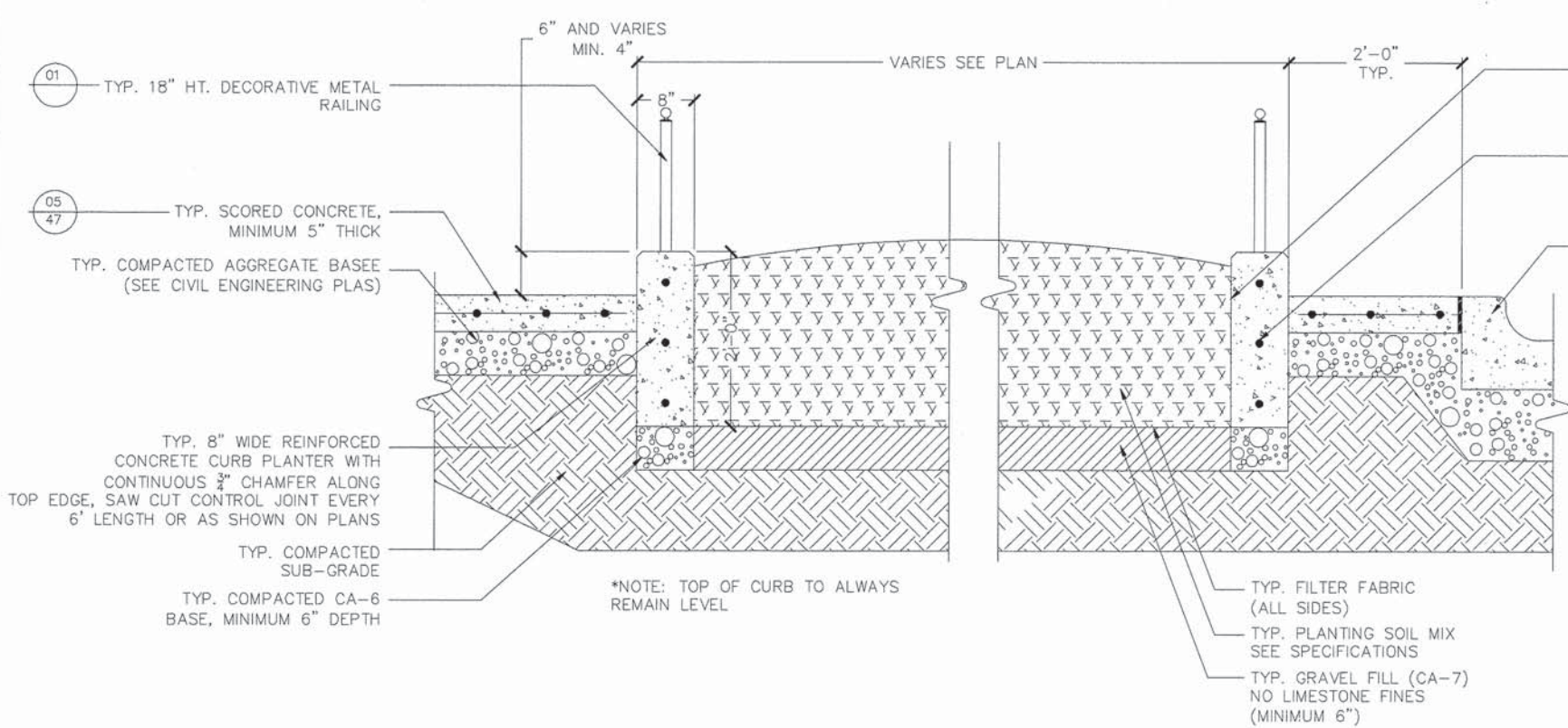
1. ALL WELDS TO BE SMOOTH, FREE OF DEFECTS, CLEANED, PRIMED, AND PAINTED BLACK ACCORDING TO SPECIFICATIONS.
2. ALL WELDS SHALL BE MADE BY A CERTIFIED WELDER.
3. SUBMIT SHOP DRAWINGS FOR RAILING (PRIOR TO FABRICATION)
4. COLOR: BLACK

NOTE: ALL STEEL TO BE 16 GAUGE THOROUGH ACID WASHED AND CLEANED AND PRIMED WITH MIN. TWO COATS EXTERIOR FIELD PRIME/PAINT BLACK PER APPROVED COLOR SAMPLE.

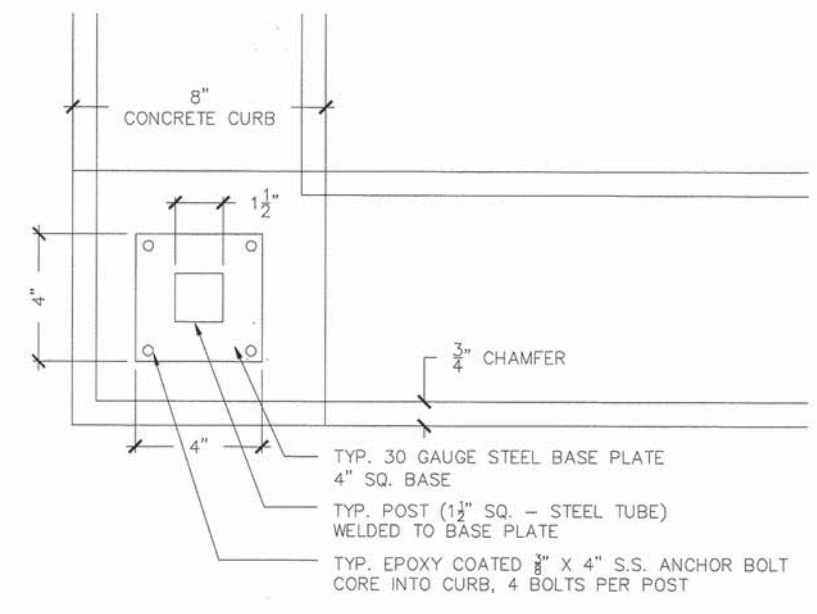


1 Typical Decorative Metal Railing Detail

2 Typical Decorative Metal Railing Enlargement



3 Typical Concrete Curb Planter Detail



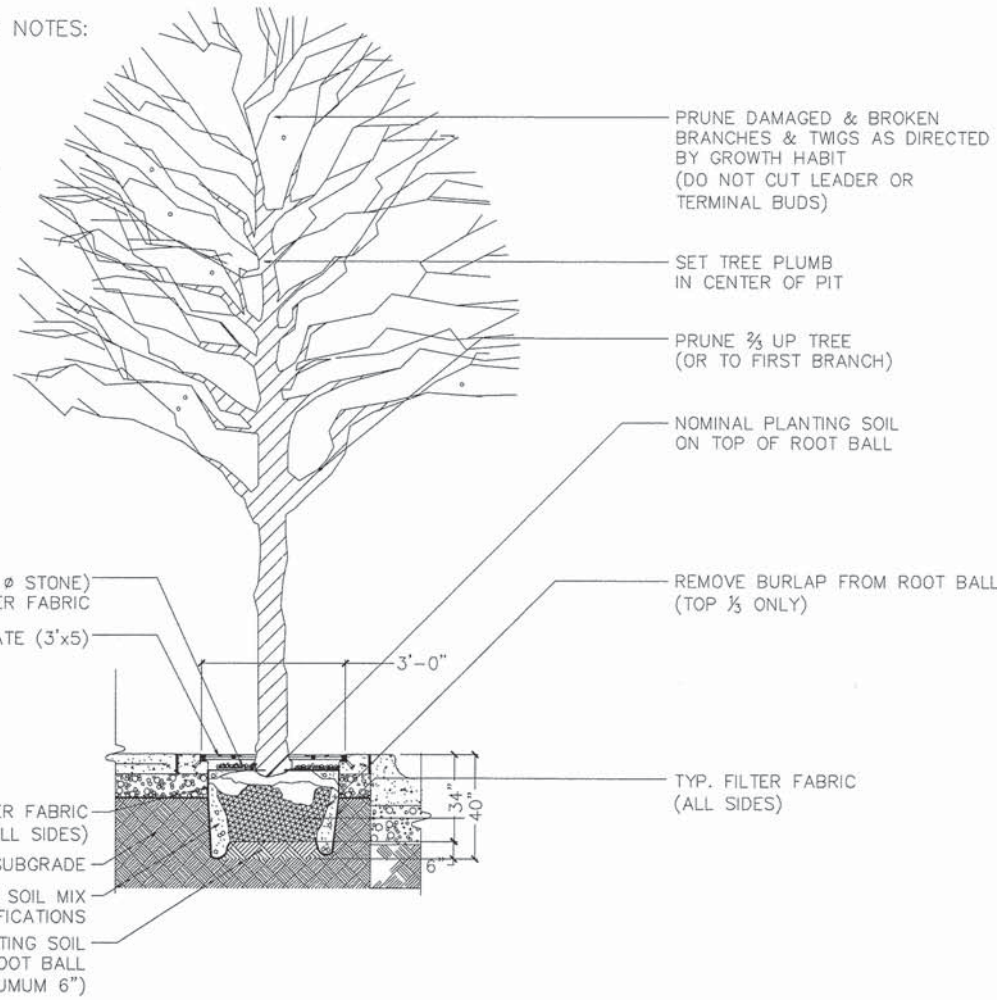
4 Typical Railing Post Surface Mounted Connection

NOTE APPLIES TO ALL SITE FURNISHINGS AND PRODUCTS: CONTRACTOR SHALL PROVIDE SHOP DRAWINGS FOR APPROVAL PRIOR TO INSTALLATION.

DECIDUOUS TREE PLANTING NOTES:

ALL PRUNING MUST BE DONE AFTER PLANTING, AND AT THE DIRECTION OF THE LANDSCAPE ARCHITECT. ROOT COLLAR SHALL BE SET SO THAT AFTER SOIL SETTLES, THE TOP OF THE BALL SHALL BE AT THE SAME ELEVATION AS FINISHED GRADE.

FINAL BALL ELEVATION AND PLANTER BED GRADING AS DIRECTED BY LANDSCAPE ARCHITECT. WHEN SOIL CONDITIONS ARE ENCOUNTERED WITH POOR DRAINAGE, LANDSCAPE CONTRACTOR SHALL NOTIFY LANDSCAPE ARCHITECT. LANDSCAPE CONTRACTOR SHALL ELABORATE AND PREPARE RECOMMENDATIONS FOR SOLUTION TO PROBLEM.



2" CRUSHED BLUESTONE CHIP (1/4-1/2" @ STONE) LAYER ON TOP OF FILTER FABRIC

TYP. TREE GRATE (3'x5')

TYP. FILTER FABRIC (ALL SIDES)

COMPACTED SUBGRADE

TYP. PLANTING SOIL MIX SEE SPECIFICATIONS

COMPACTED PLANTING SOIL TO SUPPORT ROOT BALL (MINIMUM 6")

PRUNE DAMAGED & BROKEN BRANCHES & TWIGS AS DIRECTED BY GROWTH HABIT (DO NOT CUT LEADER OR TERMINAL BUDS)

SET TREE PLUMB IN CENTER OF PIT

PRUNE 2/3 UP TREE (OR TO FIRST BRANCH)

NOMINAL PLANTING SOIL ON TOP OF ROOT BALL

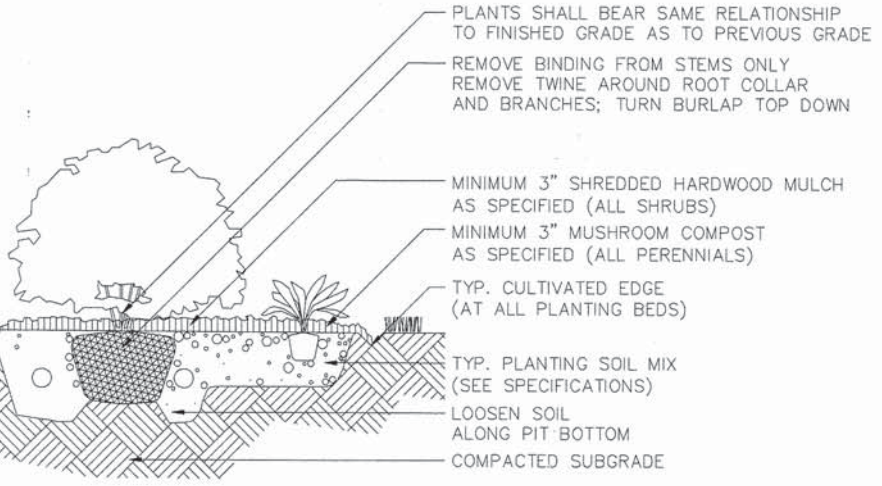
REMOVE BURLAP FROM ROOT BALL (TOP 1/3 ONLY)

TYP. FILTER FABRIC (ALL SIDES)

1 Typical Deciduous Tree Planting Detail

SHRUB PLANTING NOTES:

FINAL BALL ELEVATION AND PLANTER BED GRADING AS DIRECTED BY LANDSCAPE ARCHITECT. WHEN SOIL CONDITIONS ARE ENCOUNTERED WITH POOR DRAINAGE, LANDSCAPE CONTRACTOR SHALL NOTIFY LANDSCAPE ARCHITECT. LANDSCAPE CONTRACTOR SHALL ELABORATE AND PREPARE RECOMMENDATIONS FOR SOLUTION TO PROBLEM.



PLANTS SHALL BEAR SAME RELATIONSHIP TO FINISHED GRADE AS TO PREVIOUS GRADE

REMOVE BINDING FROM STEMS ONLY REMOVE TWINE AROUND ROOT COLLAR AND BRANCHES; TURN BURLAP TOP DOWN

MINIMUM 3" SHREDDED HARDWOOD MULCH AS SPECIFIED (ALL SHRUBS)

MINIMUM 3" MUSHROOM COMPOST AS SPECIFIED (ALL PERENNIALS)

TYP. CULTIVATED EDGE (AT ALL PLANTING BEDS)

TYP. PLANTING SOIL MIX (SEE SPECIFICATIONS)

LOOSEN SOIL ALONG PIT BOTTOM

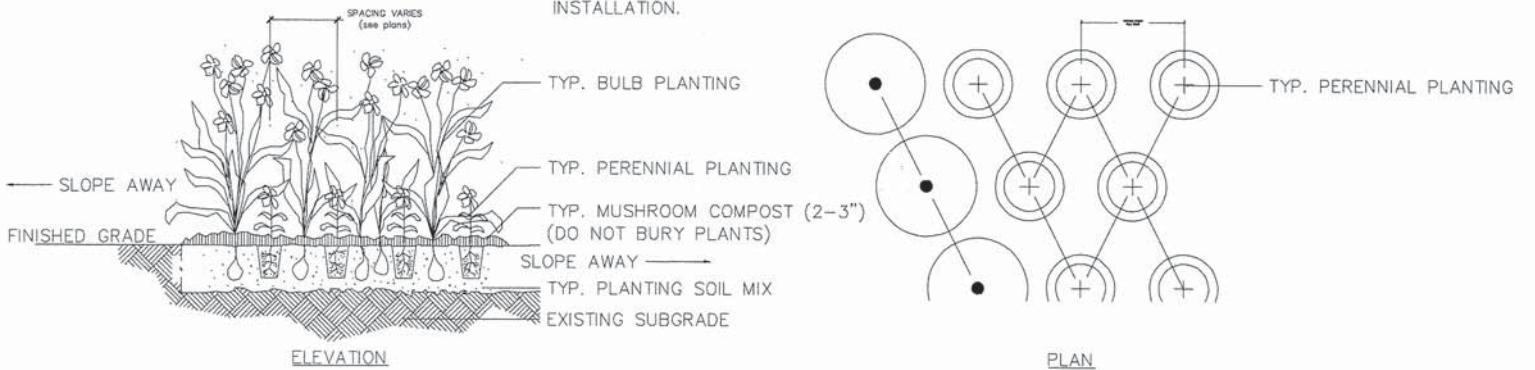
COMPACTED SUBGRADE

2 Typical Shrub Planting Detail - Open Bed or Raised Planter Condition

PERENNIAL/GROUNDCOVER PLANTING NOTES:

FINAL BALL ELEVATION AND PLANTER BED GRADING AS DIRECTED BY LANDSCAPE ARCHITECT. WHEN SOIL CONDITIONS ARE ENCOUNTERED WITH POOR DRAINAGE, LANDSCAPE CONTRACTOR SHALL NOTIFY LANDSCAPE ARCHITECT. LANDSCAPE CONTRACTOR SHALL ELABORATE AND PREPARE RECOMMENDATIONS FOR SOLUTION TO PROBLEM.

PERENNIAL PLANTING LAYOUTS TO BE APPROVED IN THE FIELD BY LANDSCAPE ARCHITECT PRIOR TO INSTALLATION.



3 Typical Perennial and Groundcover Planting Detail

PLANT LIST

QTY.	SYM.	BOTANICAL NAME	COMMON NAME	SIZE	SPACING	COMMENTS
CANOPY TREES						
03	GD	Gymnocladus dioicus	Kentucky Coffeetree	2.5" cal. as shown	B&B	
07	UF	Ulmus x frontier	Frontier Elm	2.5" cal. as shown	B&B	
08	CO	Celtis occidentalis 'Prairie Pride'	Prairie Pride Hackberry	2.5" cal. as shown	B&B	
07	AF	Acer x freemanii 'Armstrong'	Armstrong Freeman Maple	2.5" cal. as shown	B&B	
DECIDUOUS SHRUBS						
168	RAG	Rhus aromatica 'Gro-Low'	Gro Low Sumac	18" spr. 2.5' o.c.	CG	
PERENNIALS						
24	pas	Perovskia atriplicifolia 'Superba'	Superba Russian Sage	1 gal. 18" o.c.	CG	
16	sp	Salvia pratensis 'Pink Delight'	Pink Delight Salvia	1 gal. 18" o.c.	CG	
16	so	Sedum 'Autumn Joy'	Autumn Joy Sedum	1 gal. 18" o.c.	CG	



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STREETSCAPE MATERIALS & PRODUCTS

SCALE: SHEET NO. 55 OF 61 SHEETS STA. TO STA.

F.A.U. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
567	12-00079-00-SW	COOK	61	55
FIELD BOOK NO. : X			CONTRACT NO. 63768	
FED. ROAD DIST. NO. 1 ILLINOIS FED. AID PROJECT				

General Notes

1. Landscape Contractor shall verify all utility locations (existing and proposed) along with existing paving conditions and grades (existing and proposed), and note any discrepancies to Village, Engineer, and Landscape Architect immediately, before proceeding with any work.
2. Base information for these plans was taken from Engineer's site survey, geometric, and grading plans. Contractor shall verify all dimensions and locations of existing and proposed features, and familiarize themselves with any obstacles encumbering the installation of this project.
3. Any existing tree surveys or locations for these plans were prepared by the Engineer or a certified arborist. See plans for information.
4. Any archeological information relevant to these plans shall be referred to archeological survey and reports (if appropriate to job site) by the Village's engineering consultant.

General Planting Notes

GENERAL CONDITIONS

1. Contractor shall familiarize themselves with all landscape plans, details specifications prior to commencement of work. Any questions or concerns shall be directed to Project Engineer or Landscape Architect in writing prior to landscape work commencement.
2. The Contractor shall keep all areas clean and orderly at all times.
3. The Landscape Paving Contractor shall keep all roadways and walkways clear of mud and debris that result from construction operations.

SOIL & PLANTING MIX

4. All soil planting mix for backfill or beds, whether from on-site stockpile or new imported soil, shall be tested for approved specified pH levels and nutrient content. Submit testing agency with laboratory report to project Landscape Architect for approval, along with recommendations to amending soil as appropriate for use in planting.
5. Topsoil shall be clean, pulverized soil from an acceptable source. Topsoil shall be free of debris, stones, and other material not more than one inch (1") diameter in size. Contractor shall provide the Landscape Architect with receipt of soil source and soil test results from a qualified lab upon request.
6. Clean topsoil mix should have a tested and approved pH of 6.0 -- 7.0
7. All planting beds shall be thoroughly tilled and amended with topsoil/compost mix to a minimum of 12" depth.
8. The Landscape Contractor shall prepare all at grade planting beds/sod lawn areas by adding soil amendments to approved on-site or imported topsoil mix in the following quantities:
Trees and Shrubs: three (3) parts topsoil, (1) part peat, and one (1) part sand
Perennials: three (3) parts topsoil, one (1) part peat, and two (2) parts decomposed mushroom compost. (See Specifications)
9. All excess materials and spoils resulting from the landscape work shall be legally disposed of off-site by the Landscape Contractor.

PLANTER SOIL MIX

10. For all grade level planters. Topsoil/planter mix shall follow the same soil planting mix as noted above with the exception that as per these details, dimensions and specifications.

PLANTING STANDARDS

11. All plant material shall be top-quality grade, free of defects, and meet accepted horticultural standards established by the American Nurserymen's Association (ANA) and as deemed appropriate by Landscape Architect. Landscape Architect shall have the right to reject any, and all, plant material delivered to the site that does not meet acceptable standards.
12. Sizes shown on plant schedule are minimum acceptable sizes.
13. All plants to be balled-in-burlap or container-grown as specified in plant schedule. All plastic root wrapping material and metal wire baskets shall be removed.
14. All new and transplanted plants to be sprayed with an antidesiccant within twenty-four (24) hours after planting. Antitranspirant shall be "Wiltpruf" or an approved equal.
15. Landscape Architect shall field verify and approve all final staked tree, shrub, and perennial bed locations prior to installation.
16. The Landscape Contractor shall repair to its original condition any plant material which becomes damaged as a result of landscape operations.
17. All perennials shall be planted at least two (2) feet from the tree trunks planted within planting areas.
18. Landscape Architect shall approve all plant materials for quality, condition and specified sizes. Plant material shall be approved at nursery location, during tagging or before removal and transport to job site. Shrubs, perennials and groundcovers shall be approved at job site prior to installation.

FERTILIZER & MULCHING

19. All trees and shrub beds shall receive a minimum of 3" thick shredded hardwood mulch top-dressing.
20. All perennials and groundcover beds shall be top-dressed with two inches (3") minimum of compost.

MAINTENANCE & WARRANTIES

21. All plants shall be thoroughly watered in at time of planting and watered and maintained throughout construction until final acceptance by owner. Contractor shall water all plants immediately after planting. Flood plants twice during the first twenty-four (24) hours after planting.
22. All newly sodded or seeded areas shall be maintained, watered, and mowed throughout their growing seasons during construction and until final acceptance by owner.



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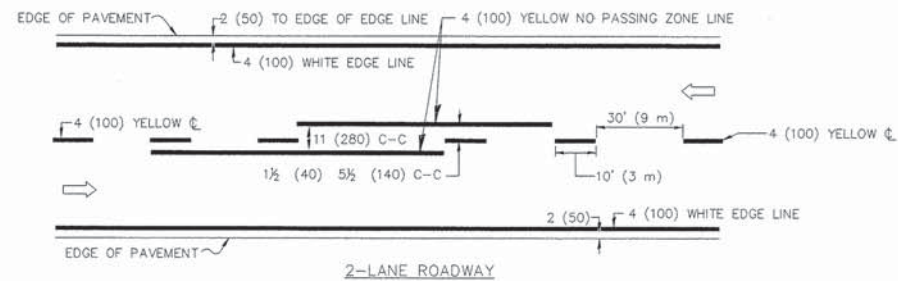
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DRAWN -	DNF/DS	REVISED -	
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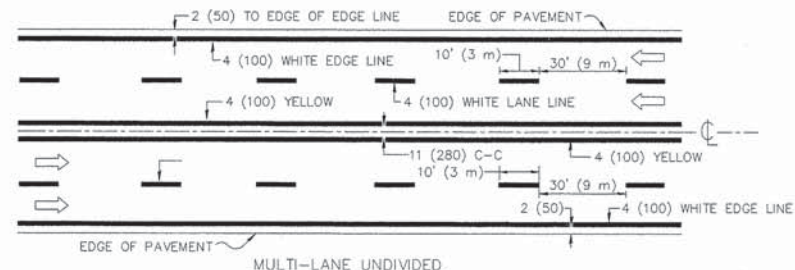
PLANTING NOTES

SCALE: _____ SHEET NO. 56 OF 61 SHEETS STA. _____ TO STA. _____

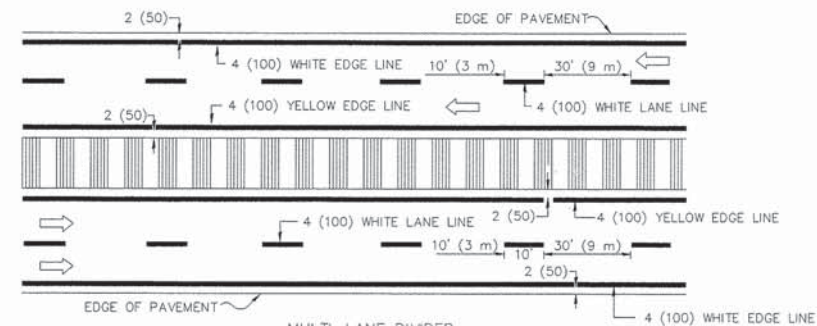
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567	12-00079-00-SW	COOK	61	56
FIELD BOOK NO. : X		CONTRACT NO. 63768		
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2-LANE ROADWAY



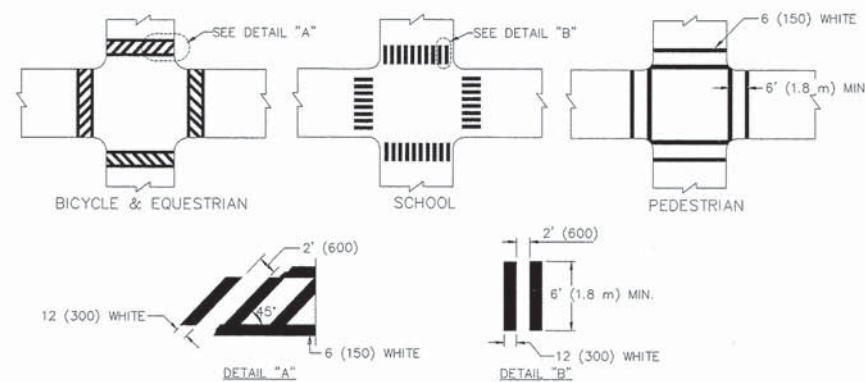
MULTI-LANE UNDIVIDED



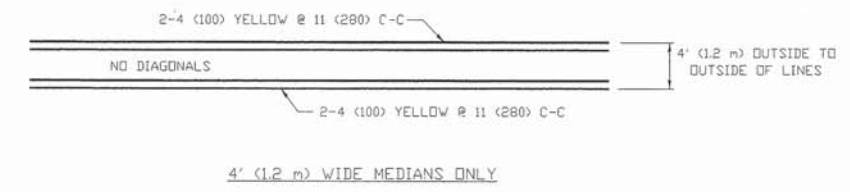
MULTI-LANE DIVIDED WITH MOUNTABLE MEDIAN

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

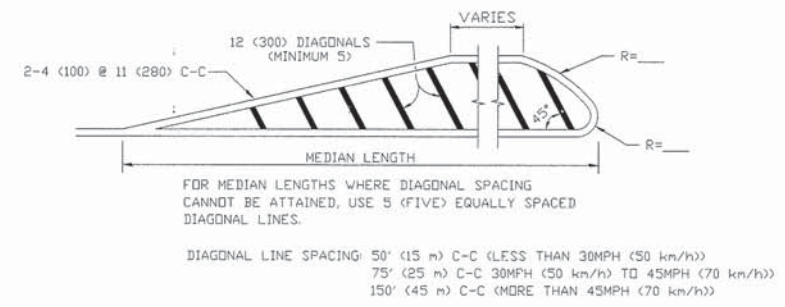
TYPICAL LANE AND EDGE LINE MARKING



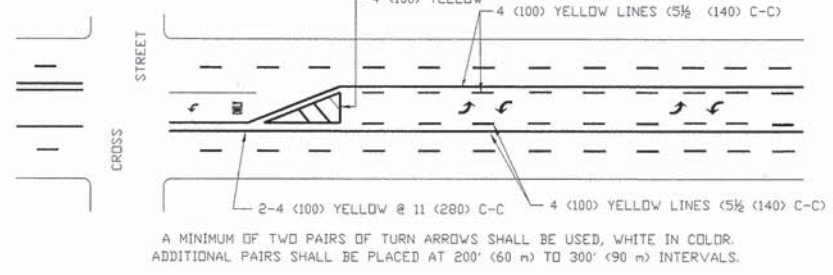
TYPICAL CROSSWALK MARKING



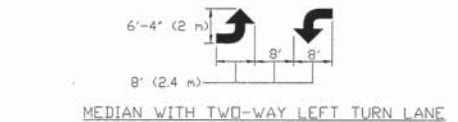
4' (1.2 m) WIDE MEDIANS ONLY



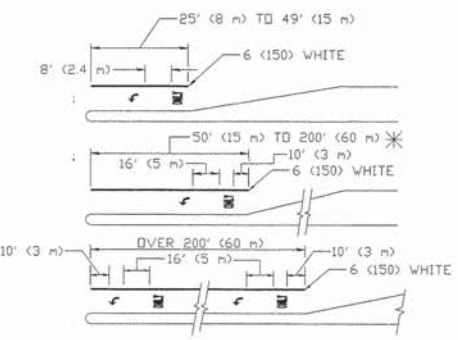
MEDIANS OVER 4' (1.2 m) WIDE



TYPICAL PAINTED MEDIAN MARKING

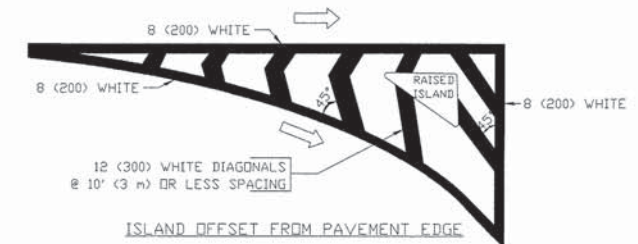


MEDIAN WITH TWO-WAY LEFT TURN LANE

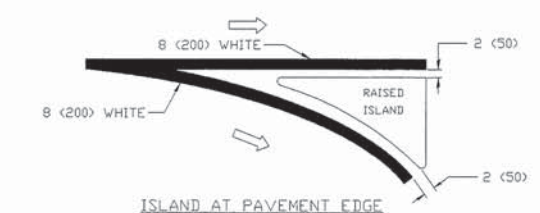


TYPICAL LEFT (OR RIGHT) TURN LANE

TYPICAL TURN LANE MARKING



ISLAND OFFSET FROM PAVEMENT EDGE



ISLAND AT PAVEMENT EDGE

TYPICAL ISLAND MARKING

TYPE OF MARKING	WIDTH OF LINE	PATTERN	COLOR	SPACING / REMARKS
CENTERLINE ON 2 LANE PAVEMENT	4 (100)	SKIP-DASH	YELLOW	10' (3 m) LINE WITH 30' (9 m) SPACE
CENTERLINE ON MULTI-LANE UNDIVIDED PAVEMENT	2 @ 4 (100)	SOLID	YELLOW	11 (280) C-C
NO PASSING ZONE LINES FOR ONE DIRECTION FOR BOTH DIRECTIONS	4 (100) 2 @ 4 (100)	SOLID SOLID	YELLOW YELLOW	5 1/2 (140) C-C FROM SKIP-DASH CENTERLINE 11 (280) C-C OMIT SKIP-DASH CENTERLINE BETWEEN
LANE LINES	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' (2.4 m))	SOLID	WHITE	SEE TYPICAL TURN LANE MARKING DETAIL
TWO WAY LEFT TURN MARKING	2 @ 4 (100) EACH DIRECTION 8' (2.4 m) LEFT ARROW	SKIP-DASH AND SOLID IN PAIRS	YELLOW WHITE	10' (3 m) LINE WITH 30' (9 m) SPACE FOR SKIP-DASH; 5 1/2 (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.
GORE MARKING AND CHANNELIZING LINES	8 (200) WITH 12 (300) DIAGONALS @ 45°	SOLID	WHITE	DIAGONALS: 15' (4.5 m) C-C (LESS THAN 30MPH (50 km/h)) 20' (6 m) C-C (30MPH (50 km/h) TO 45MPH (70 km/h)) 30' (9 m) C-C (OVER 45MPH (70 km/h))
RAILROAD CROSSING	24 (600) TRANSVERSE LINES; "RR" IS 6' (1.8 m) LETTERS; 16 (400) LINE FOR "X"	SOLID	WHITE	SEE STATE STANDARD 780001 AREA OF: "R"=3.6 SQ. FT. (0.33 m²) EACH "X"=54.0 SQ. FT. (5.0 m²)
SHOULDER DIAGONALS	12 (300) @ 45°	SOLID	WHITE - RIGHT YELLOW - LEFT	50' (15 m) C-C (LESS THAN 30MPH (50 km/h)) 75' (25 m) C-C (30 MPH (50 km/h) TO 45MPH (70 km/h)) 150' (45 m) C-C (OVER 45MPH (70 km/h))

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

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

Drawing file: W:\Projects\2010016 - Roosevelt Road Streetscape\Rosewell Rd\Std_Standards.dwg Dec 16, 2013 - 11:13am

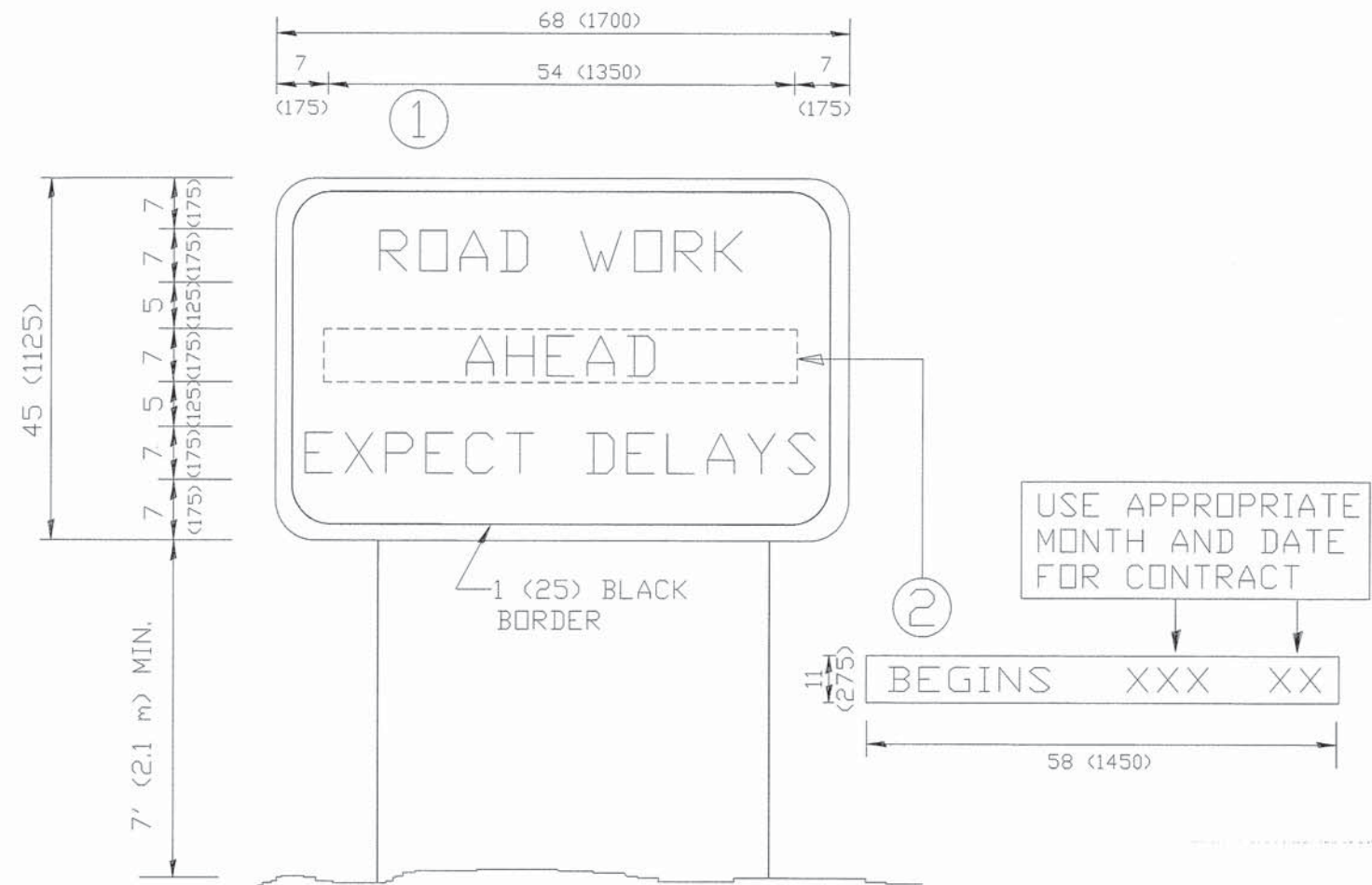
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PLOT SCALE =	DRAWN -	REVISED - C. JUCIUS 09-09-09
PLOT DATE =	CHECKED -	REVISED -
	DATE - 03-19-90	REVISED -

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

DISTRICT ONE
TYPICAL PAVEMENT MARKINGS

SCALE: NONE	SHEET NO. 1 OF 1 SHEETS	STA. TO STA.
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F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
567	12-00079-00-SW	COOK	61	57
TC-13			CONTRACT NO. 63768	
FED. ROAD DIST. NO. 1 ILLINOIS FED. AID PROJECT				



NOTES:

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

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

USER NAME =	DESIGNED -	REVISED - R. MIRS 09-15-97
PLOT SCALE =	DRAWN -	REVISED - R. MIRS 12-11-97
PLOT DATE =	CHECKED -	REVISED - T. RAMMACHER 02-02-99
	DATE -	REVISED - C. JUCIUS 01-31-07

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

ARTERIAL ROAD
INFORMATION SIGN

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

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
567	12-00079-00-SW	COOK	61	58
TC-22		CONTRACT NO. 63768		
FED. ROAD DIST. NO. 1 ILLINOIS FED. AID PROJECT				



3.0" RADIUS, 0.5" BORDER, WHITE ON GREEN; REFLECTORIZED
 "DRIVEWAY" D; "ENTRANCE" D; STANDARD ARROW CUSTOM 12.0" x 5.0"

NOTES:

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

Drawing file: W:\Projects\12010016 - Roosevelt Road Streetscape\Roadscape\Roadscape.dwg Dec 16, 2013 - 11:13am

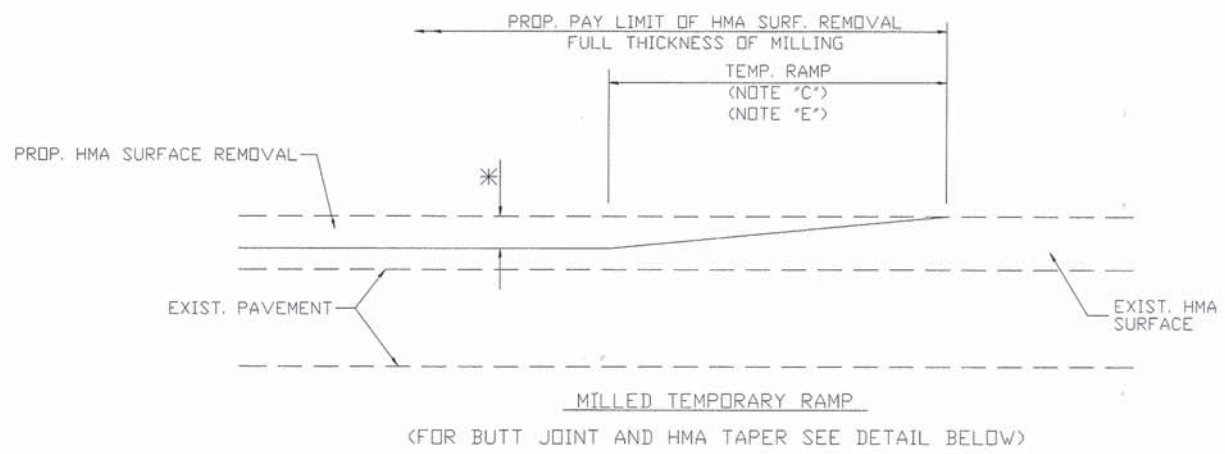
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PLOT DATE =	CHECKED -	REVISED -
	DATE -	REVISED -

**STATE OF ILLINOIS
 DEPARTMENT OF TRANSPORTATION**

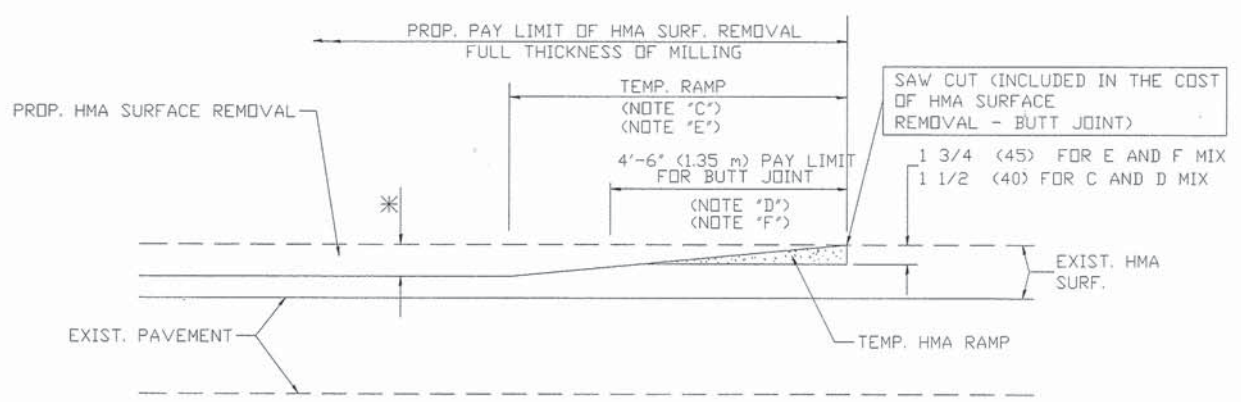
DRIVEWAY ENTRANCE SIGNING

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

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
567	12-00079-00-SW	COOK	61	59
TC-26			CONTRACT NO. 63768	
FED. ROAD DIST. NO. 1 ILLINOIS FED. AID PROJECT				



OPTION 1

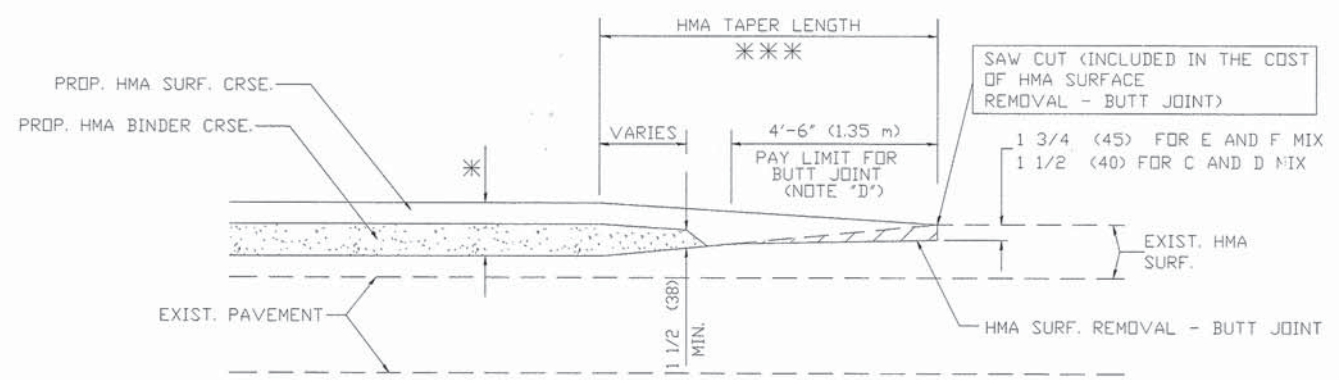


HMA CONSTRUCTED TEMPORARY RAMP

(FOR BUTT JOINT AND HMA TAPER SEE DETAIL BELOW)

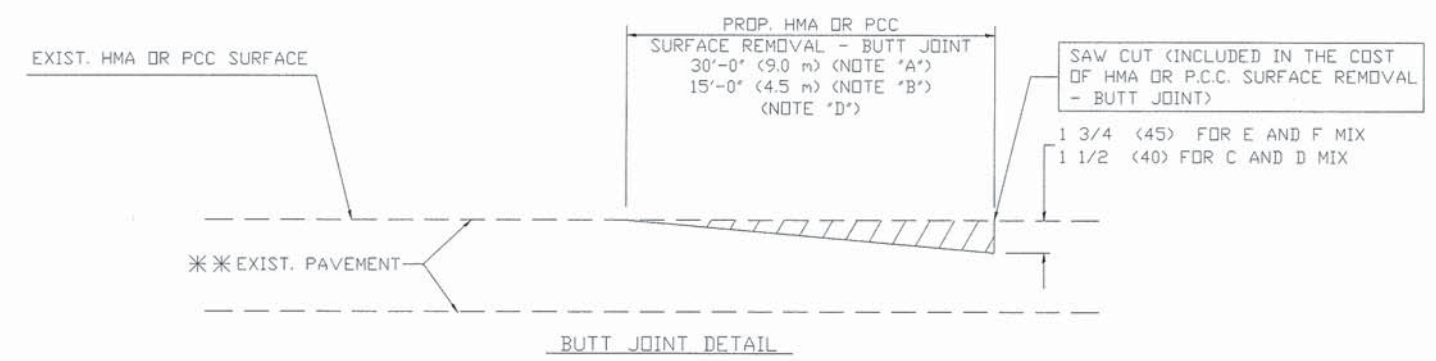
OPTION 2

TYPICAL TEMPORARY RAMP

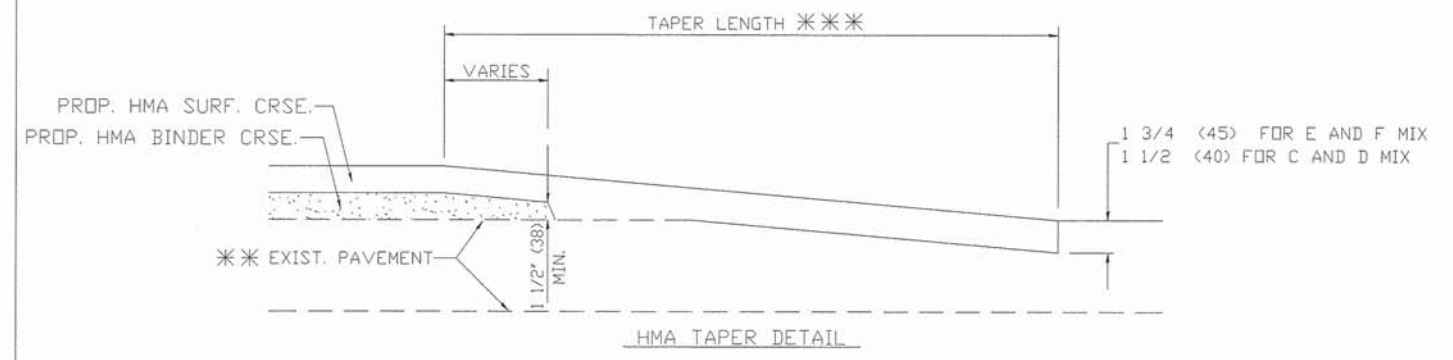


BUTT JOINT AND HMA TAPER

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

Drawing file: W:\Projects\12010016 - Roosevelt Road Streetscape\Rosewell_Rd\Job_Standards.dwg Dec 16, 2013 - 11:13am

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PLOT SCALE =	DRAWN -	REVISED - A. ABBAS 03-21-97
PLOT DATE =	CHECKED -	REVISED - M. GOMEZ 04-06-01
	DATE - 06-13-90	REVISED - R. BORO 01-01-07

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

BUTT JOINT AND
HMA TAPER DETAILS

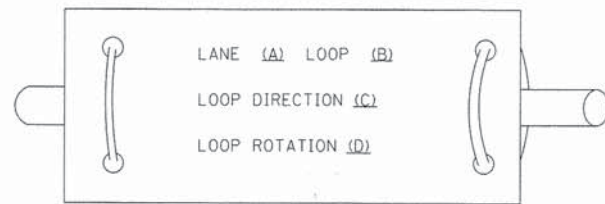
SCALE: NONE SHEET NO. 1 OF 1 SHEETS STA. TO STA.

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
567	12-00079-00-SW	COOK	61	60
BD400-05 (BD-32)			CONTRACT NO. 63768	
FED. ROAD DIST. NO. 1 ILLINOIS FED. AID PROJECT				

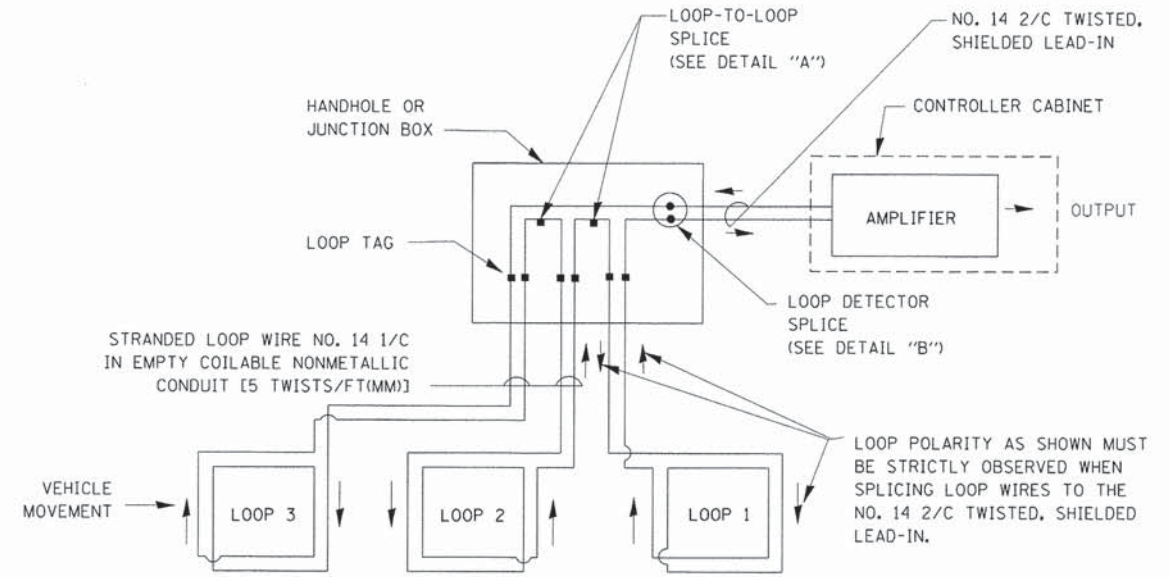
LOOP DETECTOR NOTES

1. EACH PAIR OF LOOP WIRES SHALL BE PLACED IN A SEPARATE EMPTY COILABLE NONMETALLIC CONDUIT FROM THE EDGE OF PAVEMENT TO THE HANDHOLE. SPACING BETWEEN THE HOLES DRILLED IN THE PAVEMENT SHALL NOT BE LESS THAN 6" (150 mm). EMPTY COILABLE NONMETALLIC CONDUIT SHALL BE INCLUDED IN THE COST OF THE LOOP WIRE.
2. 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.
3. EACH LOOP LEAD-IN SHALL BE IDENTIFIED AND PERMANENTLY TAGGED IN THE HANDHOLE. EACH LEAD-IN CABLE TAG SHALL INDICATE THE LOCATION OF THE LOOP, LOOP ROTATION (CLOCKWISE/COUNTERCLOCKWISE), LOOP LEAD-IN DIRECTION (IN OR OUT), LOOP CABLE NUMBER AND LOCATION IN CABINET, AND NUMBER OF TURNS IN THE DETECTOR LOOPS IN WATER PROOF INK AS INDICATED ON THE DISTRICT 1 STANDARD TRAFFIC SIGNAL DESIGN DETAIL. THE CONTRACTOR SHALL MARK LOOP LOCATIONS ON RECORD DRAWINGS AND PRESENT TO THE ENGINEER AFTER FINAL INSPECTION. LOOPS SHALL BE MARKED BY LANE AND LOOP NUMBER. SEE DETAIL BELOW.
4. ALL LOOP CABLE SHALL BE FASTENED WITH PLASTIC TIE WRAP TO THE HANDHOLE HOOKS.
5. 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.
6. 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.
7. PREFORMED DETECTOR LOOPS SHALL BE USED, AS SHOWN ON THE PLANS, WHERE NEW CONCRETE PAVEMENT IS PROPOSED. THE INSTALLATION OF PREFORMED LOOPS SHALL BE IN ACCORDANCE WITH THE DISTRICT 1 SPECIFICATIONS OR AS DIRECTED BY THE ENGINEER.

LOOP LEAD-IN CABLE TAG

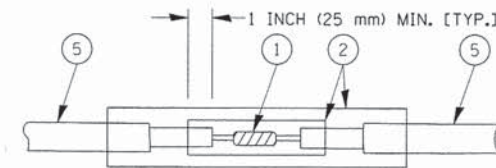


- A. LANE 1 IS THE LANE CLOSEST TO THE CENTERLINE OF THE ROADWAY
- B. LOOP #1 IS THE LOOP IN THE LANE CLOSEST TO THE INTERSECTION.
- C. LABEL LOOP CABLE "IN" OR LOOP CABLE "OUT".
- D. LABEL LOOP CABLE CLOCKWISE OR LOOP CABLE COUNTERCLOCKWISE.

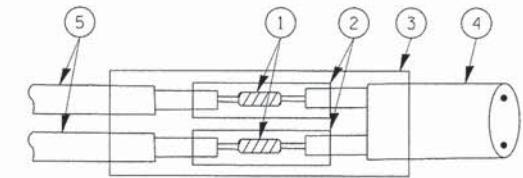


DETECTOR LOOP WIRING SCHEMATIC

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

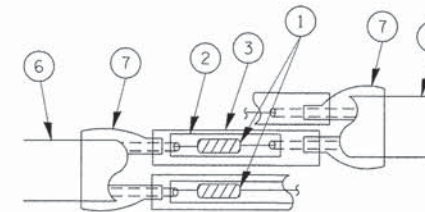


DETAIL "A" LOOP-TO-LOOP SPLICE

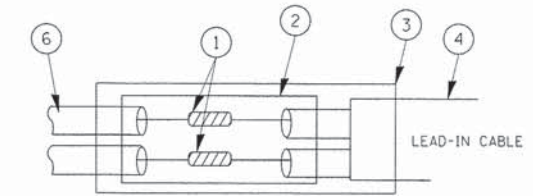


DETAIL "B" LOOP-TO-CONTROLLER SPLICE

TYPE I LOOP



DETAIL "A" LOOP-TO-LOOP SPLICE



DETAIL "B" LOOP-TO-CONTROLLER SPLICE

LOOP DETECTOR SPLICE

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

Drawing file: W:\Projects\12010016 - Roosevelt Road Streetscape\Roosevelt Rd\Std_Standards.dwg Dec 20, 2013 - 9:39am

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PLOT SCALE = 50.0000 ' / IN.		CHECKED - DAD	REVISED -
PLOT DATE = 11/4/2009		DATE - 10-28-09	REVISED -

**STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION**

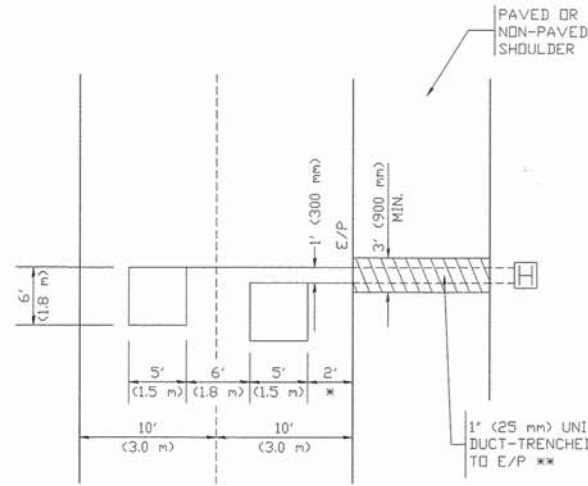
**DISTRICT ONE
STANDARD TRAFFIC SIGNAL DESIGN DETAILS**

SCALE: NONE SHEET NO. 1 OF 6 SHEETS STA. TO STA.

F.A. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
567	12-00079-00-SW	COOK	61	60a
TS-05		CONTRACT NO. 63768		
FED. ROAD DIST. NO. 1 ILLINOIS FED. AID PROJECT				

LOOPS NEXT TO SHOULDERS

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



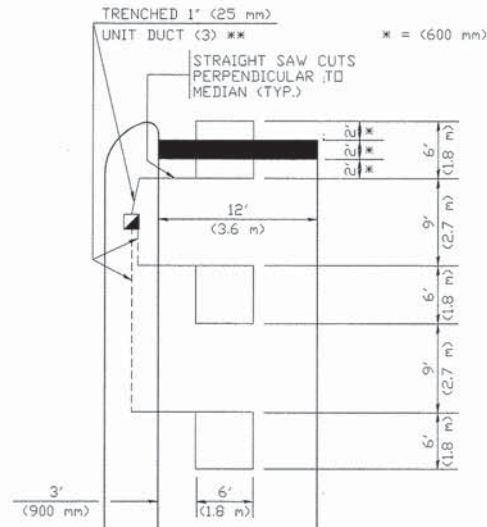
* = (600 mm)

** 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 814001 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

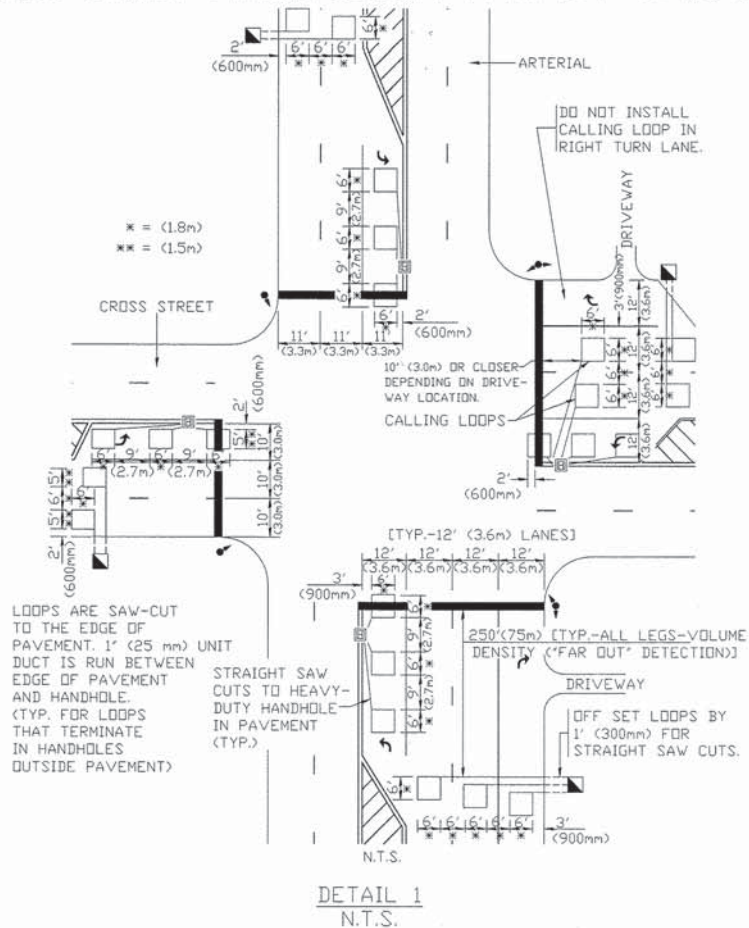
**LEFT TURN LANES WITHOUT MEDIANS
VOLUME DENSITY ("FAR OUT" DETECTION)
ON SAME APPROACH**

(PROTECTED / PERMITTED LEFT TURN PHASING)



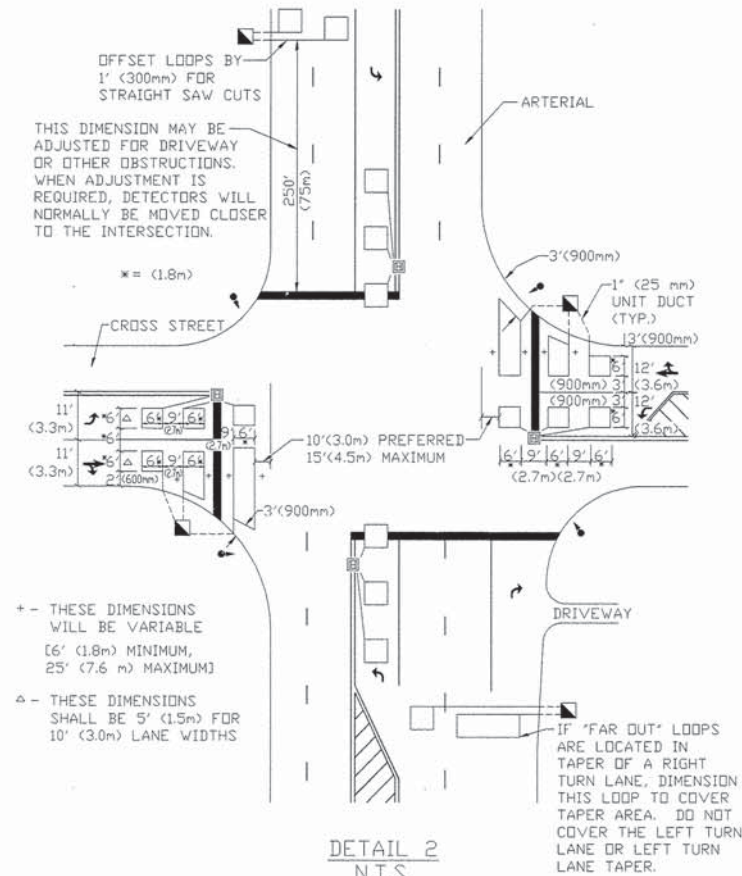
NOTE: DUAL LEFT TURNS NOT SHOWN REFER TO PLAN SHEET FOR DETECTOR LOOP REPLACEMENT

**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 DEMENSIONS 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.

USER NAME =	DESIGNED -	REVISED -
PLOT SCALE =	DRAWN -	REVISED -
PLOT DATE =	CHECKED - R.K.F.	REVISED -
	DATE -	REVISED -

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

DISTRICT 1 - DETECTOR LOOP INSTALLATION
DETAILS FOR ROADWAY RESURFACING

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

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
567	12-00079-00-SW	COOK	61	61
TS-07			CONTRACT NO. 63768	
FED. ROAD DIST. NO. 1 ILLINOIS FED. AID PROJECT				