

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

F. A. U. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
3754	01-00098-00-RS	COOK	108	1
STA. TO STA.		ILLINOIS FED. AID PROJECT		

CONTRACT #61A03

INDEX OF SHEETS
SEE SHEET NO. 2

HIGHWAY STANDARDS
SEE SHEET NO. 2

PLANS FOR PROPOSED FEDERAL AID HIGHWAY

FAU ROUTE 3754 (191ST STREET)
IL ROUTE 43 (HARLEM AVENUE) TO OAK PARK AVENUE
INTERSECTION IMPROVEMENTS AND CHANNELIZATION

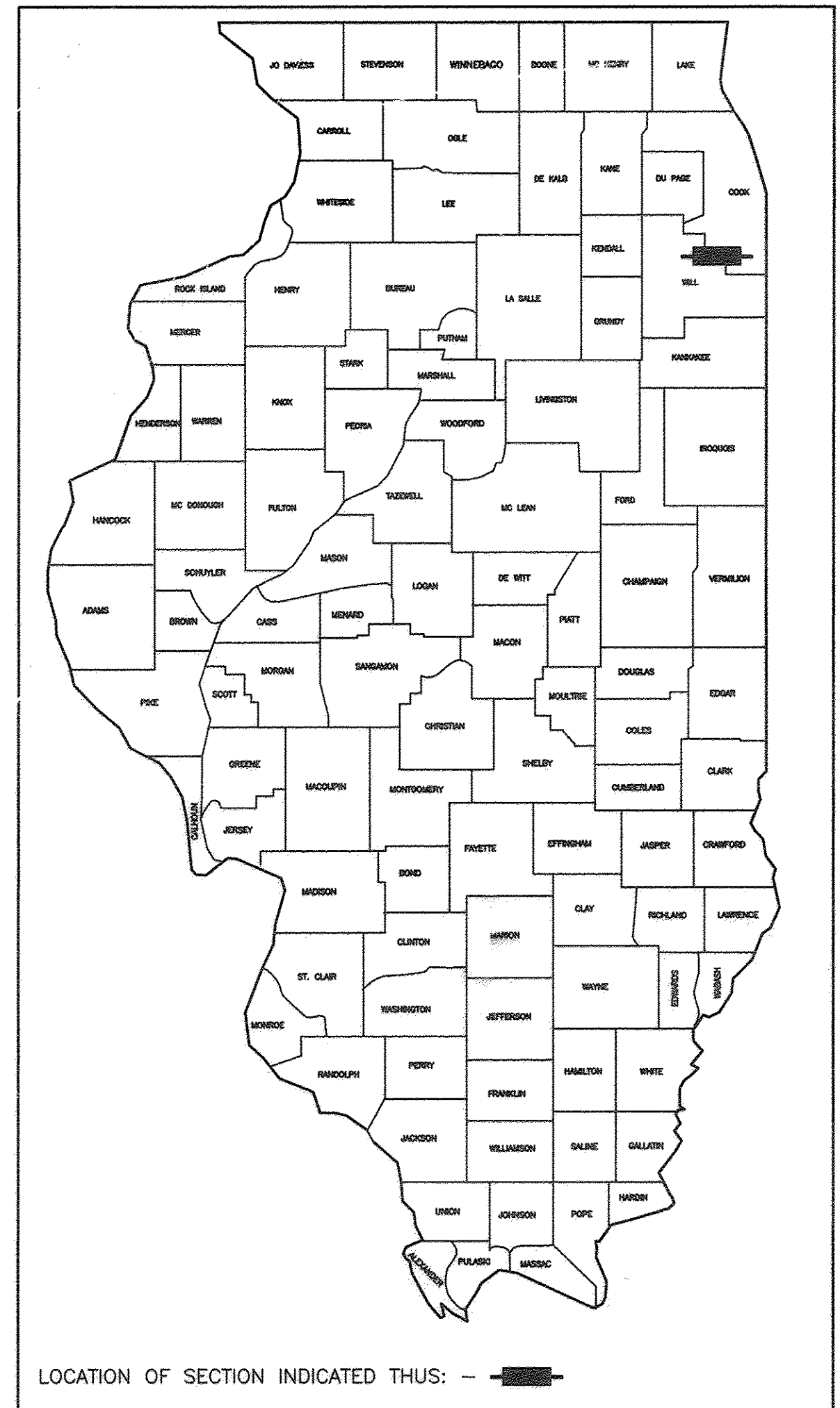
SECTION NO.: 01-00098-00-RS

PROJECT: M-8003(408)

VILLAGE OF TINLEY PARK

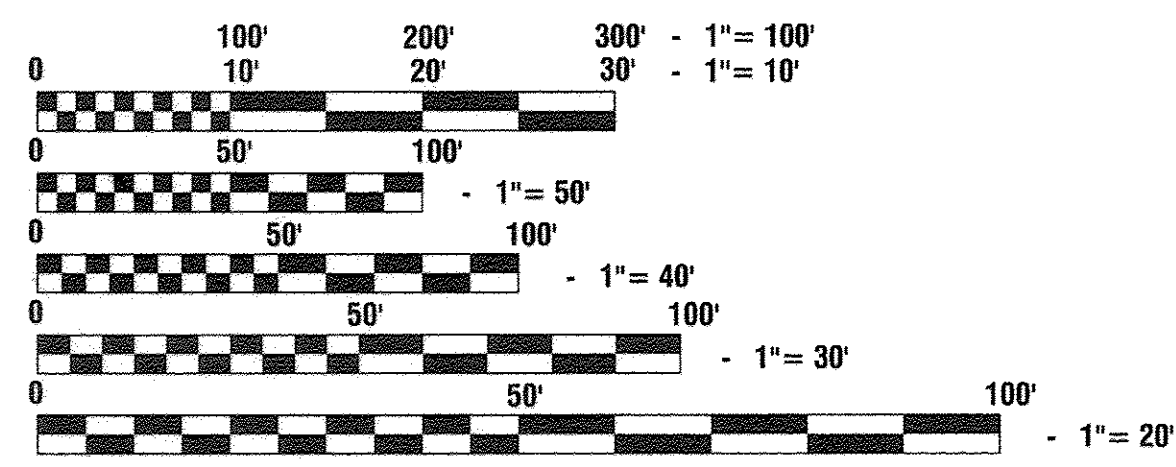
COOK COUNTY

JOB NO.: C-91-124-17



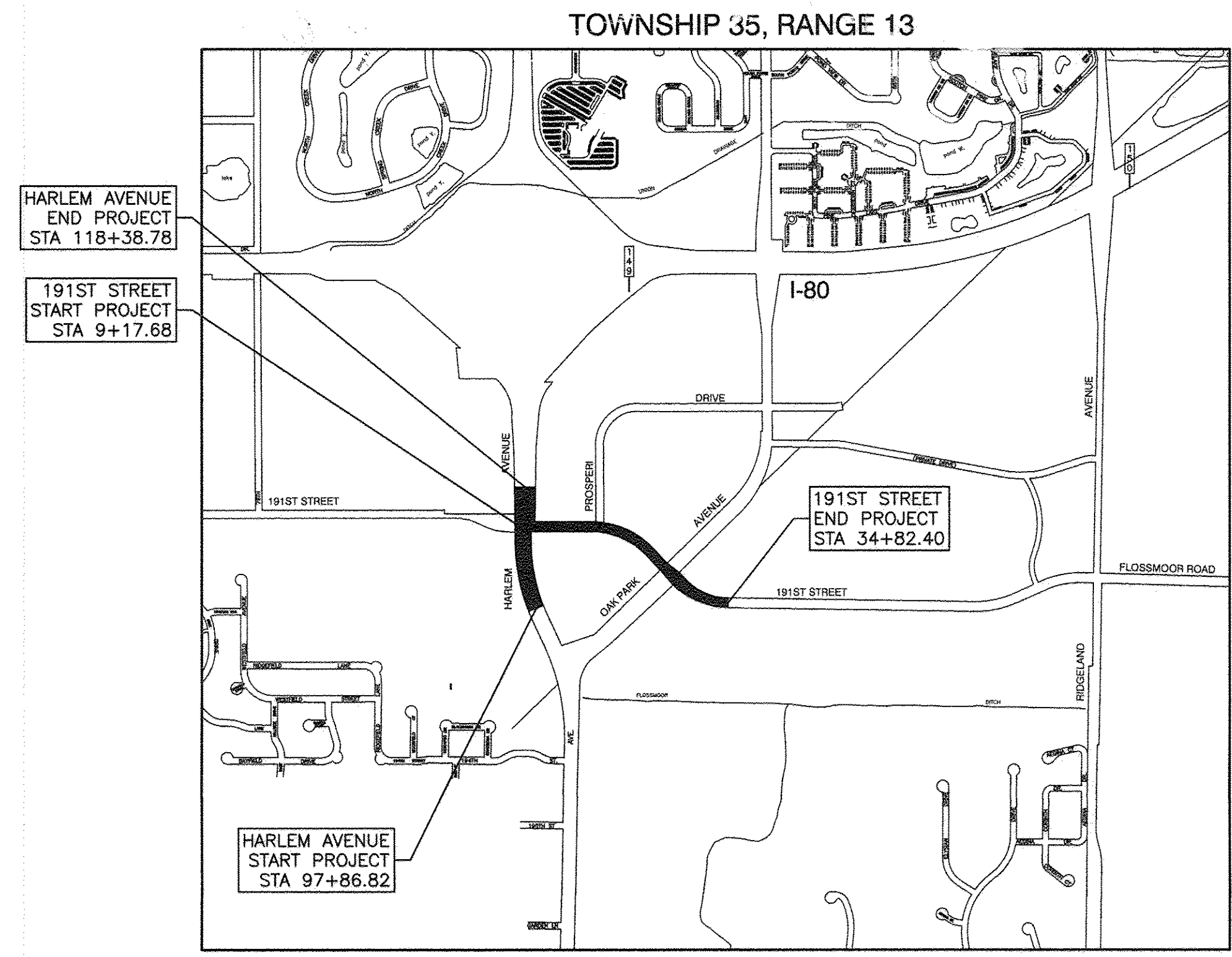
DESIGN DESIGNATION - 191st STREET ADT = 21,000 (2040) - COLLECTOR - 1.23 PV = 20160 SU = 630 MU = 210 % DESIGN TRAFFIC IN DESIGN LANE P = 96% S = 3% M = 1% SSS = FAIR		
	<u>191st STREET</u>	<u>HARLEM AVENUE</u>
2009 ADT -	8,650	22,400
2040 ADT -	21,000	29,000
POSTED SPEED LIMIT -	35 MPH	45 MPH
DESIGN PERIOD -	20 YEARS	20 YEARS
DESIGN SPEED LIMIT -	40 MPH	40/45 MPH
STREET CLASSIFICATION	CLASS I	CLASS I

SCALES
 PLAN - 1"=50'
 PROFILE HORIZ. - 1"=50'
 PROFILE VERT. - 1"=5'
 CROSS SECTIONS - 1"=10'



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

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



LOCATION MAP

— INDICATES PROPOSED IMPROVEMENT
 GROSS LENGTH= 4,616.68 FEET = 0.87 MILES
 NET LENGTH= 4,549.87 FEET = 0.86 MILES

STATE OF ILLINOIS DEPARTMENT OF TRANSPORTATION

Approved: [Signature] 12-2-16
Public Works Director, Village of Tinley Park

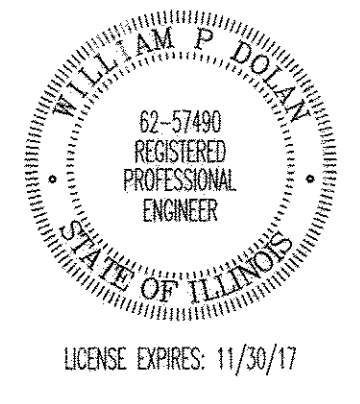
Passed: DECEMBER 19, 2016
[Signature]
District 1 Engineer of Local Roads & Streets

Released for Bid Based on Limited Review: December 19, 2016
[Signature]
Regional Engineer

PRINTED BY THE AUTHORITY OF
THE STATE OF ILLINOIS

PREPARED BY OR UNDER THE
DIRECT SUPERVISION OF:

[Signature]
12-5-16



PROGRAM AND OFFICE ENGINEER: CHARLES F. RIDDLE, PE (847) 705-4406 SCHAUMBURG, IL
 CONSULTANTS: ROBINSON ENGINEERING, LTD. 708-331-6700
 CONTACT ENGINEER: WILLIAM DOLAN

CONTRACT NO. 61A03

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280001-07	TEMPORARY EROSION CONTROL SYSTEMS
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482001-02	HMA SHOULDER, ADJACENT TO FLEXIBLE PAVEMENT
482006-03	HMA SHOULDER, ADJACENT TO RIGID PAVEMENT
542001-06	CONCRETE END SECTIONS FOR PIPE CULVERTS 15"(375mm) THRU 84" (2100mm) DIA.
542301-03	PRECAST REINFORCED CONCRETE FLARED END SECTION
542311-06	TRAVERSABLE PIPE GRATE
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602011-02	CATCH BASIN, TYPE C
602301-04	INLET, TYPE A
602401-03	MANHOLE, TYPE A
602601-04	PRECAST REINFORCED CONCRETE FLAT SLAB TOP
602701-02	MANHOLE STEPS
604001-04	FRAME AND LIDS TYPE 1
604036-03	GRATE TYPE 8
604091-03	FRAME AND GRATE TYPE 24
606001-06	CONCRETE CURB TYPE B AND COMBINATION CONCRETE CURB AND GUTTER
606006-03	OUTLETS FOR CONCRETE CURB AND GUTTER TYPE B-6.24 (B-15.60)
606301-04	PC CONCRETE ISLANDS AND MEDIANS
630001-11	STEEL PLATE BEAM GUARDRAIL
630201-07	PCC/HMA STABILIZATION AT STEEL PLATE BEAM GUARDRAIL
630301-07	SHOULDER WIDENING FOR TYPE 1 (SPECIAL) GUARDRAIL TERMINALS
631011-10	TRAFFIC BARRIER TERMINAL, TYPE 2
664001-02	CHAIN LINK FENCE
701101-05	OFF-RD OPERATIONS, MULTILANE, 4.5m (15') TO 600mm (24") FROM PAVEMENT EDGE
701422-09	LANE CLOSURE, MULTILANE, FOR SPEEDS ≥ 45 MPH TO 55 MPH
701426-09	LANE CLOSURE, MULTILANE, INTERMITTENT OR MOVING OPER., FOR SPEEDS ≥ 45 MPH
701427-05	LANE CLOSURE, MULTILANE, INTERMITTENT OR MOVING OPER., FOR SPEEDS ≤ 40 MPH
701601-09	URBAN LANE CLOSURE 1W OR 2W WITH NON-TRAVERSABLE MEDIAN
701602-08	URBAN LANE CLOSURE, MULTILANE, 2W WITH BIDIRECTIONAL LEFT TURN LANE
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878001-10	CONCRETE FOUNDATION DETAILS
880006-01	TRAFFIC SIGNAL MOUNTING DETAILS
886001-01	DETECTOR LOOP INSTALLATIONS

FILE NAME = 04252-INDX-01 - IDOT P01

USER NAME =	DESIGNED -- WPD	REVISED --
	CHECKED -- WPD	REVISED --
PLOT SCALE =	DRAWN -- ACAD	REVISED --
PLOT DATE = 12-05-16	CHECKED -- ACAD	REVISED --

**STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION**

191ST STREET IMPROVEMENTS INDEX OF SHEETS AND STATE STANDARDS			
SCALE:	SHEET NO. 2	OF 108 SHEETS	STA. TO STA.

F.A.U. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
3754	01-00098-00-RS	COOK	108	2
FED. ROAD DIST. NO. 1 ILLINOIS FED. AID PROJECT			CONTRACT NO. 61A03	

SUMMARY OF QUANTITIES				STU FUNDS								
S.I.	CODE NO.	ITEM	UNIT	TOTAL QUANTITY	0004	0021	IL RTE 43 (HARLEM AVE) @ 191ST STREET	OAK PARK AVE @ 191ST STREET	INTERCONNECT	STREET LIGHTING	0042	
	20100110	TREE REMOVAL (6 TO 15 UNITS DIAMETER)	UNIT	30	30							
	20200100	EARTH EXCAVATION	CU YD	7511	7511							
	20201200	REMOVAL AND DISPOSAL OF UNSUITABLE MATERIAL	CU YD	856	856							
	20800150	TRENCH BACKFILL	CU YD	278	278							
	21101505	TOPSOIL EXCAVATION AND PLACEMENT	CU YD	1647	1647							
	21101625	TOPSOIL FURNISH AND PLACE, 6"	SQ YD	6728	6728							
	21301060	EXPLORATION TRENCH 60" DEPTH	FOOT	75	75							
	25000210	SEEDING, CLASS 2A	ACRE	3	3							
	25000310	SEEDING, CLASS 4	ACRE	1	1							
	25000400	NITROGEN FERTILIZER NUTRIENT	POUND	260	260							
	25000600	POTASSIUM FERTILIZER NUTRIENT	POUND	260	260							
	25100630	EROSION CONTROL BLANKET	SQ YD	18282	18282							
	28000305	TEMPORARY DITCH CHECKS	FOOT	200	200							
	28000400	PERIMETER EROSION BARRIER	FOOT	6125	6125							
	28000500	INLET AND PIPE PROTECTION	EACH	11	11							
	28000510	INLET FILTERS	EACH	41	41							
	28100101	STONE RIPRAP, CLASS A1	SQ YD	22	22							
	28100107	STONE RIPRAP, CLASS A4	SQ YD	22	22							
	28200200	FILTER FABRIC	SQ YD	22	22							
	* 30300001	AGGREGATE SUBGRADE IMPROVEMENT	CU YD	856	856							
	* 30300112	AGGREGATE SUBGRADE IMPROVEMENT 12"	SQ YD	20006	20006							
	35501316	HOT-MIX ASPHALT BASE COURSE, 8"	SQ YD	14158	14158							
	35501320	HOT-MIX ASPHALT BASE COURSE, 9"	SQ YD	3164	3164							
	35600708	HOT-MIX ASPHALT BASE COURSE WIDENING, 8"	SQ YD	92	92							
	35600712	HOT-MIX ASPHALT BASE COURSE WIDENING, 9"	SQ YD	271	271							
	40600290	BITUMINOUS MATERIALS (TACK COAT)	POUND	17600	17600							

SUMMARY OF QUANTITIES				STU FUNDS								
S.I.	CODE NO.	ITEM	UNIT	TOTAL QUANTITY	0004	0021	IL RTE 43 (HARLEM AVE) @ 191ST STREET	OAK PARK AVE @ 191ST STREET	INTERCONNECT	STREET LIGHTING	0042	
	40600635	LEVELING BINDER (MACHINE METHOD), N70	TON	405	405							
	40600982	HOT-MIX ASPHALT SURFACE REMOVAL - BUTT JOINT	SQ YD	67	67							
	40603335	HOT-MIX ASPHALT SURFACE COURSE, MIX "D", N50	TON	5	5							
	40603340	HOT-MIX ASPHALT SURFACE COURSE, MIX "D", N70	TON	2129	2129							
	40603565	POLYMERIZED HOT-MIX ASPHALT SURFACE COURSE, MIX "E", N70	TON	457	457							
	44000100	PAVEMENT REMOVAL	SQ YD	7433	7433							
	44000157	HOT-MIX ASPHALT SURFACE REMOVAL, 2"	SQ YD	515	515							
	44000159	HOT-MIX ASPHALT SURFACE REMOVAL, 2 1/2"	SQ YD	1644	1644							
	44000160	HOT-MIX ASPHALT SURFACE REMOVAL, 2 3/4"	SQ YD	4980	4980							
	44000200	DRIVEWAY PAVEMENT REMOVAL	SQ YD	110	110							
	44000500	COMBINATION CURB AND GUTTER REMOVAL	FOOT	2560	2560							
	44003100	MEDIAN REMOVAL	SQ FT	3701	3701							
	44200970	CLASS B PATCHES, TYPE II, 10 INCH	SQ YD	25	25							
	44200974	CLASS B PATCHES, TYPE III, 10 INCH	SQ YD	25	25							
	44200976	CLASS B PATCHES, TYPE IV, 10 INCH	SQ YD	30	30							
	48203021	HOT-MIX ASPHALT SHOULDERS, 6"	SQ YD	1561	1561							
	50104400	CONCRETE HEADWALL REMOVAL	EACH	1	1							
	54213657	PRECAST REINFORCED CONCRETE FLARED END SECTIONS 12"	EACH	8	8							
	* 54260311	TRAVERSABLE PIPE GRATE	FOOT	12	12							
	* 54261324	CONCRETE END SECTION, STANDARD 542001, 24", 1:3	EACH	2	2							
	* 54261336	CONCRETE END SECTION, STANDARD 542001, 36", 1:3	EACH	1	1							
	550A0040	STORM SEWERS, CLASS A, TYPE 1 10"	FOOT	17	17							
	550A0340	STORM SEWERS, CLASS A, TYPE 2 12"	FOOT	976	976							
	550A0360	STORM SEWERS, CLASS A, TYPE 2 15"	FOOT	154	154							
	550A0380	STORM SEWERS, CLASS A, TYPE 2 18"	FOOT	248	248							
	550A0410	STORM SEWERS, CLASS A, TYPE 2 24"	FOOT	247	247							

* - SPECIAL PROVISION
 Δ - SPECIALTY ITEMS

SUMMARY OF QUANTITIES					STU FUNDS						
S.I.	CODE NO.	ITEM	UNIT	TOTAL QUANTITY	0004	0021	IL RTE 43 (HARLEM AVE) @ 191ST STREET	OAK PARK AVE @ 191ST STREET	INTERCONNECT	STREET LIGHTING	0042
	550A0450	STORM SEWERS, CLASS A, TYPE 2 36"	FOOT	93	93						
	55100400	STORM SEWER REMOVAL 10"	FOOT	9	9						
	55100500	STORM SEWER REMOVAL 12"	FOOT	17	17						
	55100700	STORM SEWER REMOVAL 15"	FOOT	5	5						
	55100900	STORM SEWER REMOVAL 18"	FOOT	5	5						
	55101200	STORM SEWER REMOVAL 24"	FOOT	37	37						
	55101600	STORM SEWER REMOVAL 36"	FOOT	101	101						
Δ *	56106700	ADJUSTING WATER MAIN 18"	FOOT	100	100						
Δ *	56400100	FIRE HYDRANTS TO BE MOVED	EACH	3	3						
Δ *	58400600	FIRE HYDRANTS	EACH	1	1						
	60200105	CATCH BASINS, TYPE A, 4'-DIAMETER, TYPE 1 FRAME, OPEN LID	EACH	1	1						
	60200805	CATCH BASINS, TYPE A, 4'-DIAMETER, TYPE 8 GRATE	EACH	1	1						
	60201340	CATCH BASINS, TYPE A, 4'-DIAMETER, TYPE 24 FRAME AND GRATE	EACH	15	15						
	60205040	CATCH BASINS, TYPE A, 5'-DIAMETER, TYPE 24 FRAME AND GRATE	EACH	3	3						
	60206905	CATCH BASINS, TYPE C, TYPE 1 FRAME, OPEN LID	EACH	1	1						
	60207805	CATCH BASINS, TYPE C, TYPE 8 GRATE	EACH	2	2						
	60208240	CATCH BASINS, TYPE C, TYPE 24 FRAME AND GRATE	EACH	7	7						
	60218400	MANHOLES, TYPE A, 4'-DIAMETER, TYPE 1 FRAME, CLOSED LID	EACH	3	3						
	60221100	MANHOLES, TYPE A, 5'-DIAMETER, TYPE 1 FRAME, CLOSED LID	EACH	4	4						
	60234200	INLETS, TYPE A, TYPE 1 FRAME, OPEN LID	EACH	1	1						
	60237470	INLETS, TYPE A, TYPE 24 FRAME AND GRATE	EACH	12	12						
	60250200	CATCH BASINS TO BE ADJUSTED	EACH	1	1						
	60250500	CATCH BASINS TO BE ADJUSTED WITH NEW TYPE 1 FRAME, CLOSED LID	EACH	5	5						
	60255500	MANHOLES TO BE ADJUSTED	EACH	10	10						
	60260100	INLETS TO BE ADJUSTED	EACH	3	3						
	60265700	VALVE VAULTS TO BE ADJUSTED	EACH	4	4						

SUMMARY OF QUANTITIES					STU FUNDS						
S.I.	CODE NO.	ITEM	UNIT	TOTAL QUANTITY	0004	0021	IL RTE 43 (HARLEM AVE) @ 191ST STREET	OAK PARK AVE @ 191ST STREET	INTERCONNECT	STREET LIGHTING	0042
*	60266600	VALVE BOXES TO BE ADJUSTED	EACH	1	1						
	60500050	REMOVING CATCH BASINS	EACH	6	6						
	60500060	REMOVING INLETS	EACH	1	1						
	60600095	CLASS SI CONCRETE (OUTLET)	CU YD	8	8						
	60605000	COMBINATION CONCRETE CURB AND GUTTER, TYPE B-6.24	FOOT	5065	5065						
Δ	63000001	STEEL PLATE BEAM GUARDRAIL, TYPE A, 6 FOOT POSTS	FOOT	1438		1438					
Δ	63100045	TRAFFIC BARRIER TERMINAL, TYPE 2	EACH	2		2					
Δ	63100167	TRAFFIC BARRIER TERMINAL, TYPE 1 (SPECIAL) TANGENT	EACH	1		1					
Δ	63200310	GUARDRAIL REMOVAL	FOOT	1300		1300					
Δ	66400205	CHAIN LINK FENCE, 5'	FOOT	206		206					
Δ	66900200	NON-SPECIAL WASTE DISPOSAL	CU YD	3000		3000					
Δ	66900450	SPECIAL WASTE PLANS AND REPORTS	L SUM	1		1					
Δ	66900530	SOIL DISPOSAL ANALYSIS	EACH	8		8					
	67000400	ENGINEER'S FIELD OFFICE, TYPE A	CAL MO	9		9					
	67100100	MOBILIZATION	L SUM	1		1					
	70103815	TRAFFIC CONTROL SURVEILLANCE	CAL DA	196		196					
	70300100	SHORT TERM PAVEMENT MARKING	FOOT	1864		1864					
	70300210	TEMPORARY PAVEMENT MARKING LETTERS AND SYMBOLS	SQ FT	873		873					
	70300220	TEMPORARY PAVEMENT MARKING - LINE 4"	FOOT	12101		12101					
	70300240	TEMPORARY PAVEMENT MARKING - LINE 6"	FOOT	3583		3583					
	70300260	TEMPORARY PAVEMENT MARKING - LINE 12"	FOOT	578		578					
	70300280	TEMPORARY PAVEMENT MARKING - LINE 24"	FOOT	298		298					
	70400100	TEMPORARY CONCRETE BARRIER	FOOT	1678		1678					
	70600260	IMPACT ATTENUATORS, TEMPORARY (FULLY REDIRECTIVE, NARROW), TEST LEVEL 3	EACH	6		6					
	72000100	SIGN PANEL - TYPE 1	SQ FT	187		110	66		11		
	72000200	SIGN PANEL - TYPE 2	SQ FT	56		8	28		20		

* - SPECIAL PROVISION

Δ - SPECIALTY ITEMS

FILE NAME = 04252-QUAN-01 - P02

USER NAME =	DESIGNED -- WPD	REVISED --
CHECKED -- WPD	REVISED --	
PLOT SCALE =	DRAWN -- ACAD	REVISED --
PLOT DATE = 12-05-16	CHECKED -- ACAD	REVISED --

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

191ST STREET IMPROVEMENTS
SUMMARY OF QUANTITIES

SCALE: SHEET NO. 5 OF 108 SHEETS STA. TO STA.

F.A.U. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
3754	01-00098-00-RS	COOK	108	5
CONTRACT NO. 61A03				
FED. ROAD DIST. NO. 1 ILLINOIS FED. AID PROJECT				

SUMMARY OF QUANTITIES					STU FUNDS						
S.I.	CODE NO.	ITEM	UNIT	TOTAL QUANTITY	0004	0021	IL RTE 43 (HARLEM AVE) @ 191ST STREET	OAK PARK AVE @ 191ST STREET	INTERCONNECT	STREET LIGHTING	0042
	72400100	REMOVE SIGN PANEL ASSEMBLY - TYPE A	EACH	7		7					
	72400500	RELOCATE SIGN PANEL ASSEMBLY - TYPE A	EACH	7		7					
	72400600	RELOCATE SIGN PANEL ASSEMBLY - TYPE B	EACH	1		1					
Δ	72501000	TERMINAL MARKER - DIRECT APPLIED	EACH	1		1					
	72800100	TELESCOPING STEEL SIGN SUPPORT	FOOT	15		15					
	72900100	METAL POST - TYPE A	FOOT	141		141					
	72900200	METAL POST - TYPE B	FOOT	162		162					
	73100100	BASE FOR TELESCOPING STEEL SIGN SUPPORT	EACH	1		1					
Δ	78000100	THERMOPLASTIC PAVEMENT MARKING - LETTERS AND SYMBOLS	SQ FT	1165		1165					
Δ	78000200	THERMOPLASTIC PAVEMENT MARKING - LINE 4"	FOOT	18074		18074					
Δ	78000400	THERMOPLASTIC PAVEMENT MARKING - LINE 6"	FOOT	4741		4741					
Δ	78000500	THERMOPLASTIC PAVEMENT MARKING - LINE 8"	FOOT	209		209					
Δ	78000600	THERMOPLASTIC PAVEMENT MARKING - LINE 12"	FOOT	618		618					
Δ	78000650	THERMOPLASTIC PAVEMENT MARKING - LINE 24"	FOOT	398		398					
Δ	78100100	RAISED REFLECTIVE PAVEMENT MARKER	EACH	250		250					
Δ	78300200	RAISED REFLECTIVE PAVEMENT MARKER REMOVAL	EACH	200		200					
Δ	80400100	ELECTRIC SERVICE INSTALLATION	EACH	1						1	
Δ	80400200	ELECTRIC UTILITY SERVICE CONNECTION	L SUM	1							1
Δ	81028200	UNDERGROUND CONDUIT, GALVANIZED STEEL, 2" DIA.	FOOT	3643			733	1263	1847		
Δ	81028210	UNDERGROUND CONDUIT, GALVANIZED STEEL, 2 1/2" DIA.	FOOT	300						300	
Δ	81028220	UNDERGROUND CONDUIT, GALVANIZED STEEL, 3" DIA.	FOOT	327			216	111			
Δ	81028240	UNDERGROUND CONDUIT, GALVANIZED STEEL, 4" DIA.	FOOT	853			518	335			
Δ	81400100	HANDHOLE	EACH	12			7	5			
Δ	81400200	HEAVY-DUTY HANDHOLE	EACH	10			4	6			
Δ	81400300	DOUBLE HANDHOLE	EACH	3			2	1			
Δ	81702460	ELECTRIC CABLE IN CONDUIT, 600V (XLP-TYPE USE) 3-1/C NO. 3/0	FOOT	70						70	

SUMMARY OF QUANTITIES					STU FUNDS						
S.I.	CODE NO.	ITEM	UNIT	TOTAL QUANTITY	0004	0021	IL RTE 43 (HARLEM AVE) @ 191ST STREET	OAK PARK AVE @ 191ST STREET	INTERCONNECT	STREET LIGHTING	0042
Δ	82102250	LUMINAIRE, SODIUM VAPOR, HORIZONTAL MOUNT, 250 WATT	EACH	27							27
Δ	82102400	LUMINAIRE, SODIUM VAPOR, HORIZONTAL MOUNT, 400 WATT	EACH	2							2
Δ	82500380	LIGHTING CONTROLLER, BASE MOUNTED, 480VOLT, 200AMP	EACH	1							1
Δ	83008400	LIGHT POLE, ALUMINUM, 40 FT. M.H., 10 FT. MAST ARM	EACH	27							27
Δ	83050800	LIGHT POLE, ALUMINUM, 47.5 FT. M.H., 12 FT. MAST ARM	EACH	2							2
Δ	83600200	LIGHT POLE FOUNDATION, 24" DIAMETER	FOOT	266							266
Δ	83800205	BREAKAWAY DEVICE, TRANSFORMER BASE, 15 INCH BOLT CIRCLE	EACH	29							29
Δ	84200500	REMOVAL OF LIGHTING UNIT, SALVAGE	EACH	3							3
Δ	84200804	REMOVAL OF POLE FOUNDATION	EACH	15							15
Δ	84400105	RELOCATE EXISTING LIGHTING UNIT	EACH	12							12
Δ	85000200	MAINTENANCE OF EXISTING TRAFFIC SIGNAL INSTALLATION	EACH	1				1			
Δ	86400100	TRANSCEIVER - FIBER OPTIC	EACH	2						2	
Δ	87300825	ELECTRIC CABLE IN CONDUIT, TRACER, NO. 14 1C	FOOT	3857						3857	
Δ	87301225	ELECTRIC CABLE IN CONDUIT, SIGNAL NO. 14 3C	FOOT	1660				1100	560		
Δ	87301245	ELECTRIC CABLE IN CONDUIT, SIGNAL NO. 14 5C	FOOT	4900				3520	1380		
Δ	87301255	ELECTRIC CABLE IN CONDUIT, SIGNAL NO. 14 7C	FOOT	3790				1630	2160		
Δ	87301305	ELECTRIC CABLE IN CONDUIT, LEAD-IN, NO. 14 1 PAIR	FOOT	8810				5740	3070		
Δ	87301805	ELECTRIC CABLE IN CONDUIT, SERVICE, NO. 6 2 C	FOOT	90				50	40		
Δ	87301900	ELECTRIC CABLE IN CONDUIT, EQUIPMENT GROUNDING CONDUCTOR, NO. 6 1C	FOOT	1290				780	510		
Δ	87502500	TRAFFIC SIGNAL POST, GALVANIZED STEEL 16 FT.	EACH	4					4		
Δ	87700160	STEEL MAST ARM ASSEMBLY AND POLE, 24 FT.	EACH	1				1			
Δ	87700170	STEEL MAST ARM ASSEMBLY AND POLE, 28 FT.	EACH	1				1			
Δ	87700190	STEEL MAST ARM ASSEMBLY AND POLE, 30 FT.	EACH	1				1			
Δ	87700250	STEEL MAST ARM ASSEMBLY AND POLE, 42 FT.	EACH	3					3		
Δ	87700270	STEEL MAST ARM ASSEMBLY AND POLE, 46 FT.	EACH	4				4			
Δ	87700280	STEEL MAST ARM ASSEMBLY AND POLE, 48 FT.	EACH	1					1		

* - SPECIAL PROVISION
Δ - SPECIALTY ITEMS

FILE NAME = 04252-QUAN-01 - P03

USER NAME =
DESIGNED -- WPD
CHECKED -- WPD
PLOT SCALE =
DRAWN -- ACAD
PLOT DATE = 12-05-16
CHECKED -- ACAD

REVISED --
REVISED --
REVISED --
REVISED --

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

191ST STREET IMPROVEMENTS
SUMMARY OF QUANTITIES

SCALE: SHEET NO. 6 OF 108 SHEETS STA. TO STA.

F.A.U. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
3754	01-00098-00-RS	COOK	108	6
CONTRACT NO. 61A03				
FED. ROAD DIST. NO. 1 ILLINOIS FED. AID PROJECT				

SUMMARY OF QUANTITIES					STU FUNDS						
S.I.	CODE NO.	ITEM	UNIT	TOTAL QUANTITY	0004	0021	IL RTE 43 (HARLEM AVE) @ 191ST STREET	OAK PARK AVE @ 191ST STREET	INTERCONNECT	STREET LIGHTING	0042
Δ	87800100	CONCRETE FOUNDATION, TYPE A	FOOT	20			4	16			
Δ	87800150	CONCRETE FOUNDATION, TYPE C	FOOT	8			4	4			
Δ	87800400	CONCRETE FOUNDATION, TYPE E 30-INCH DIAMETER	FOOT	34			34				
Δ	87800415	CONCRETE FOUNDATION, TYPE E 36-INCH DIAMETER	FOOT	104			52	52			
Δ	87900200	DRILL EXISTING HANDHOLE	EACH	2			1		1		
Δ	88030020	SIGNAL HEAD, LED, 1-FACE, 3-SECTION, MAST-ARM MOUNTED	EACH	18			12	6			
Δ	88030050	SIGNAL HEAD, LED, 1-FACE, 3-SECTION, BRACKET MOUNTED	EACH	2			2				
Δ	88030100	SIGNAL HEAD, LED, 1-FACE, 5-SECTION, BRACKET MOUNTED	EACH	6				6			
Δ	88030110	SIGNAL HEAD, LED, 1-FACE, 5-SECTION, MAST-ARM MOUNTED	EACH	12			6	6			
Δ	88200410	TRAFFIC SIGNAL BACKPLATE, LOUVERED, FORMED PLASTIC	EACH	30			18	12			
Δ	88500100	INDUCTIVE LOOP DETECTOR	EACH	24			14	10			
Δ	88600100	DETECTOR LOOP, TYPE I	FOOT	1635			920	715			
Δ	88700200	LIGHT DETECTOR	EACH	6			4	2			
Δ	88700300	LIGHT DETECTOR AMPLIFIER	EACH	2			1	1			
Δ	89000100	TEMPORARY TRAFFIC SIGNAL INSTALLATION	EACH	1			1				
Δ	89502300	REMOVE ELECTRIC CABLE FROM CONDUIT	FOOT	691					691		
Δ	89502375	REMOVE EXISTING TRAFFIC SIGNAL EQUIPMENT	EACH	1			1				
Δ	89502380	REMOVE EXISTING HANDHOLE	EACH	7			7				
Δ	89502382	REMOVE EXISTING DOUBLE HANDHOLE	EACH	1			1				
Δ	89502385	REMOVE EXISTING CONCRETE FOUNDATION	EACH	8			8				
*	Z0004538	HOT-MIX ASPHALT DRIVEWAY PAVEMENT, 10'	SQ YD	70	70						
*	Z0022800	FENCE REMOVAL	FOOT	230	230						
*	Z0030850	TEMPORARY INFORMATION SIGNING	SQ FT	52		52					
Δ	Z0033028	MAINTENANCE OF LIGHTING SYSTEM	CAL MO	10							10
Δ	Z0033046	RE-OPTIMIZE TRAFFIC SIGNAL SYSTEM LEVEL 2	EACH	2					2		
Δ	Z0073510	TEMPORARY TRAFFIC SIGNAL TIMING	EACH	1			1				

* - SPECIAL PROVISION
Δ - SPECIALTY ITEMS

SUMMARY OF QUANTITIES					STU FUNDS						
S.I.	CODE NO.	ITEM	UNIT	TOTAL QUANTITY	0004	0021	IL RTE 43 (HARLEM AVE) @ 191ST STREET	OAK PARK AVE @ 191ST STREET	INTERCONNECT	STREET LIGHTING	0042
*	Z0076600	TRAINEES	HOUR	1000							1000
*	Z0076604	TRAINEES TRAINING PROGRAM GRADUATE	HOUR	1000							1000
*	X0301797	GATE REMOVAL	EACH	2	2						
*	X0322936	REMOVE EXISTING FLARED END SECTION	EACH	1	1						
Δ	X0324085	EMERGENCY VEHICLE PRIORITY SYSTEM LINE SENSOR CABLE, NO. 20 3/C	FOOT	1680			1100	580			
*	X0326657	RELOCATE SIGN, SPECIAL	EACH	1		1					
*	X0327979	PAVEMENT MARKING REMOVAL - GRINDING	SQ FT	5288		5288					
Δ	X1400150	SERVICE INSTALLATION, GROUND MOUNTED, METERED	EACH	2			1	1			
*	X2130010	EXPLORATION TRENCH, SPECIAL	FOOT	100	100						
*	X2800510	INLET FILTER CLEANING	EACH	80	80						
*	X6026050	SANITARY MANHOLES TO BE ADJUSTED	EACH	2	2						
*	X6060060	COMBINATION CONCRETE CURB AND GUTTER, TYPE B-9.06 (SPECIAL)	FOOT	941	941						
*	X6060700	CONCRETE MEDIAN, TYPE SB-9.06 (SPECIAL)	SQ FT	4632	4632						
*	X7010216	TRAFFIC CONTROL AND PROTECTION, (SPECIAL)	L SUM	1		1					
*	X7030005	TEMPORARY PAVEMENT MARKING REMOVAL	SQ FT	4850	4850						
Δ	X8163090	UNIT DUCT, 600V, 3-1C NO.4, 1/C NO.6 GROUND, (XLP-TYPE USE), 1 1/2" DIA. POLYETHYLENE	FOOT	8400							8400
Δ	X8360215	LIGHT POLE FOUNDATION, 24" DIAMETER, OFFSET	FOOT	14							14
Δ	X8570226	FULL-ACTUATED CONTROLLER AND TYPE IV CABINET, SPECIAL	EACH	2			1	1			
Δ	X8620200	UNINTERRUPTABLE POWER SUPPLY, SPECIAL	EACH	2			1	1			
Δ	X8710024	FIBER OPTIC CABLE IN CONDUIT, NO. 62.5/125, MM12F SM24F	FOOT	3857					3857		

FILE NAME = 04252-QUAN-01 - P04

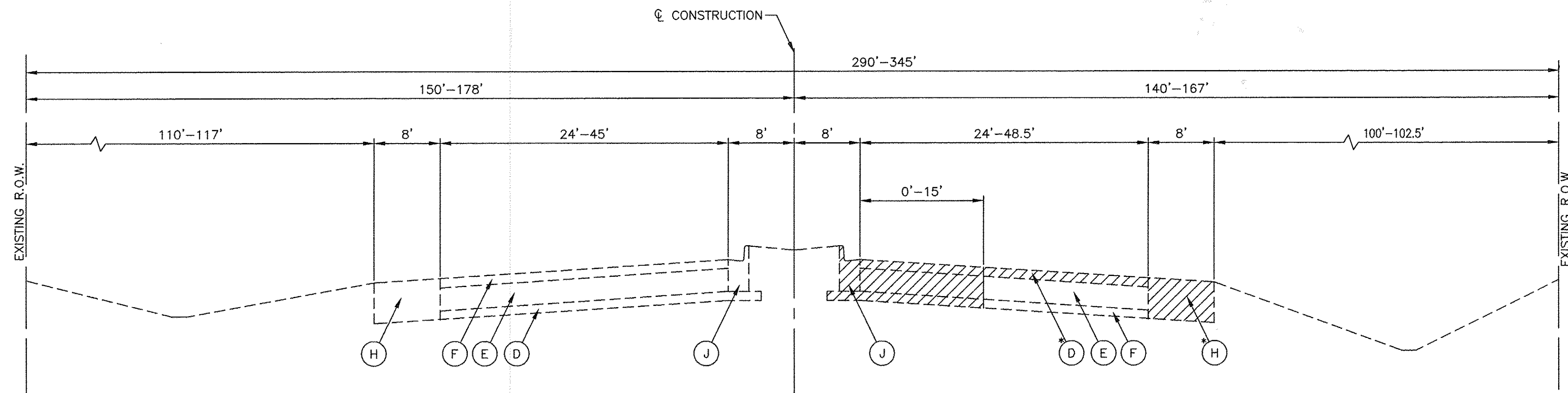
USER NAME =	DESIGNED -- WPD	REVISOR --
CHECKED -- WPD	REVISION --	
PLOT SCALE =	DRAWN -- ACAD	REVISION --
PLOT DATE = 12-05-16	CHECKED -- ACAD	REVISION --

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

191ST STREET IMPROVEMENTS
SUMMARY OF QUANTITIES

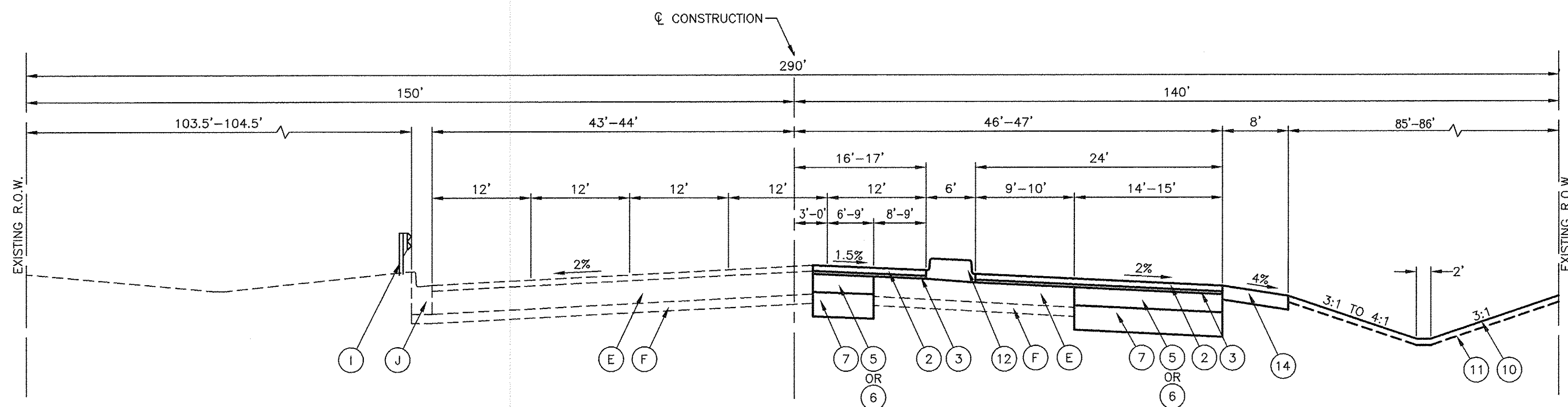
SCALE: SHEET NO. 7 OF 108 SHEETS STA. TO STA.

F.A.U. RTE. 3754	SECTION 01-00098-00-RS	COUNTY COOK	TOTAL SHEETS 108	SHEET NO. 7
FED. ROAD DIST. NO. 1		ILLINOIS		FED. AID PROJECT
CONTRACT NO. 61A03				

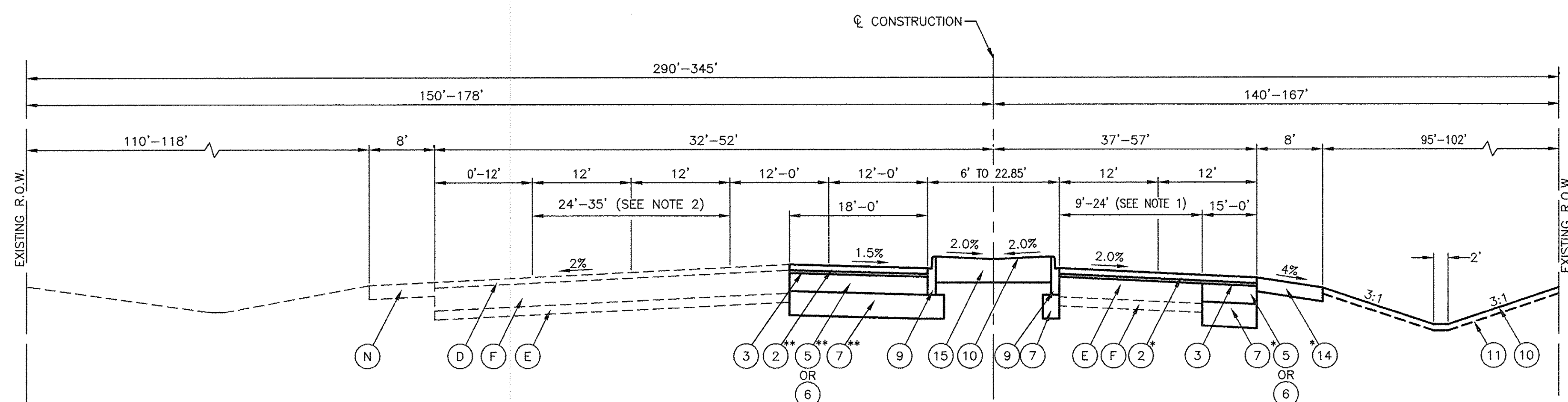


EXISTING TYPICAL CROSS SECTION
 IL 43 (HARLEM AVENUE)
 STA 112+00 TO STA 118+38.78

*REMOVAL FROM STA 112+00 TO STA 115+95.07



PROPOSED TYPICAL CROSS SECTION
 IL 43 (HARLEM AVENUE)
 STA 110+24 TO STA 111+99



PROPOSED TYPICAL CROSS SECTION
 IL 43 (HARLEM AVENUE)
 STA 111+99 TO STA 118+38.78

*STA 111+99 TO 115+95
 **STA 111+99 TO 114+99

- NOTE:**
- EXISTING PAVEMENT WIDENS TO 48.5' FOR ON-RAMP OF EAST BOUND I-80
 - EXISTING PAVEMENT WIDENS TO 35' FOR OFF-RAMP OF EAST BOUND I-80

LEGEND

- (A) HMA PAVEMENT, 6" & VARIES
 - (B) CRUSHED STONE BASE COURSE, 8" & VARIES
 - (C) CRUSHED STONE AGGREGATE SHOULDER, 9.5" & VARIES
 - (D) HMA SURFACE COURSE, 2 1/2"
 - (E) PCC PAVEMENT, 10"
 - (F) STABILIZED SUBBASE, 4"
 - (G) PCC MEDIAN
 - (H) HMA SHOULDER, 14"
 - (I) STEEL PLATE BEAM GUARDRAIL
 - (J) COMBINATION CONCRETE CURB & GUTTER
 - (K) HMA PAVEMENT & VARIES, 12"
 - (L) AGGREGATE BASE, 6"
 - (M) HMA SURFACE COURSE, 2"
 - (N) HMA SHOULDER, 8"
- ITEMS TO BE REMOVED
- (1) HMA SURFACE COURSE, MIX "D", N70 - 2"
 - (2) POLYMERIZED HMA SURFACE COURSE, MIX "E", N70 - 1 3/4"
 - (3) LEVELING BINDER (MACHINE METHOD), N70 - 3/4"
 - (4) HMA BASE COURSE, IL 19 mm, N70, 8"
 - (5) HMA BASE COURSE, IL 19 mm, N90, 9"
 - (6) HMA BASE COURSE WIDENING, IL 19 mm, N90, 9"
 - (7) AGGREGATE SUBGRADE IMPROVEMENT, 12"
 - (8) TYPE B-6.24 COMBINATION CONCRETE CURB & GUTTER
 - (9) TYPE B-9.06 COMBINATION CONCRETE CURB & GUTTER
 - (10) SEEDING, CLASS 2A OR 4
 - (11) TOPSOIL FURNISH AND PLACE, 6"
 - (12) CONCRETE MEDIAN TYPE SB 9.06 (SPECIAL)
 - (13) STEEL PLATE BEAM GUARDRAIL, TYPE A
 - (14) HMA SHOULDERS, 6"

FILE NAME = 04252-TYPX-01

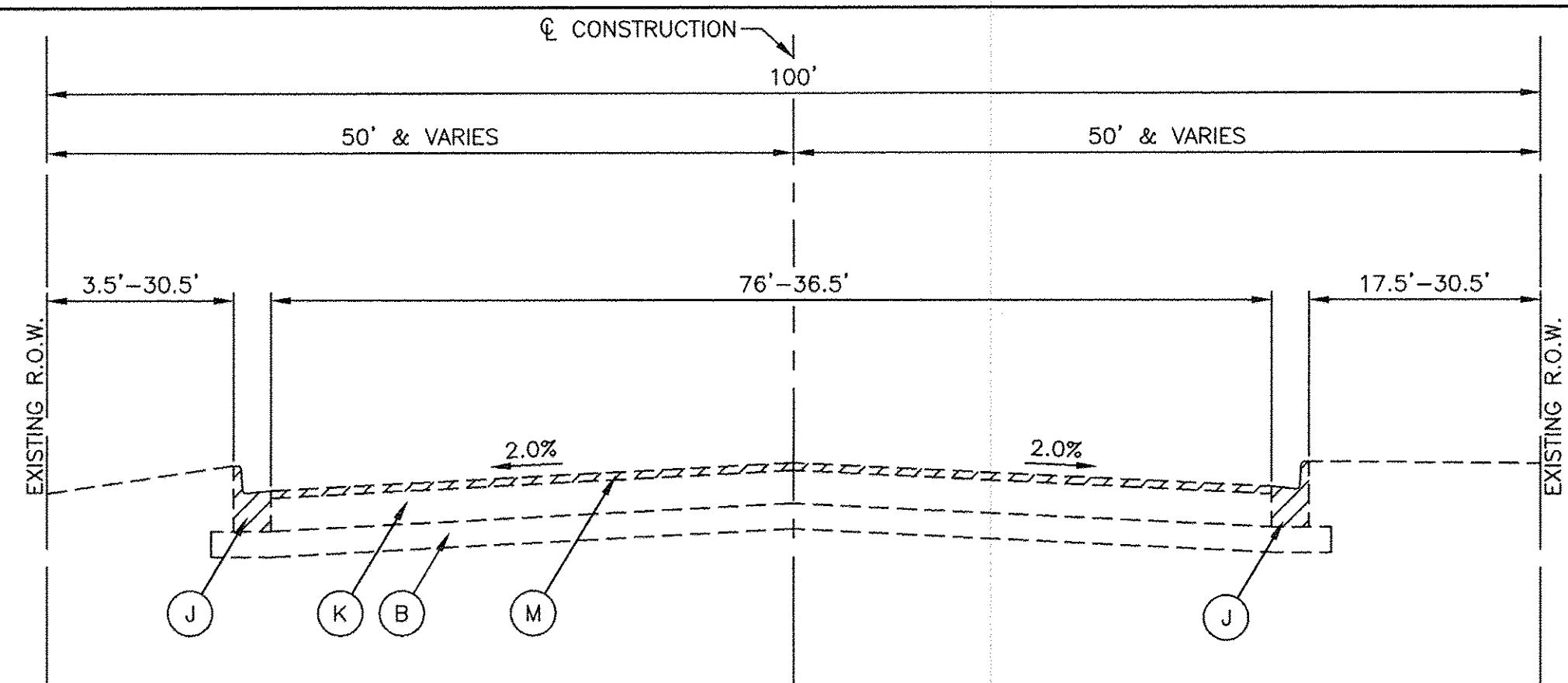
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CHECKED -- WPD	REVISIONS --	
PLOT SCALE =	DRAWN -- AG	REVISED --
PLOT DATE = 12-05-16	CHECKED -- ACAD	REVISED --

**STATE OF ILLINOIS
 DEPARTMENT OF TRANSPORTATION**

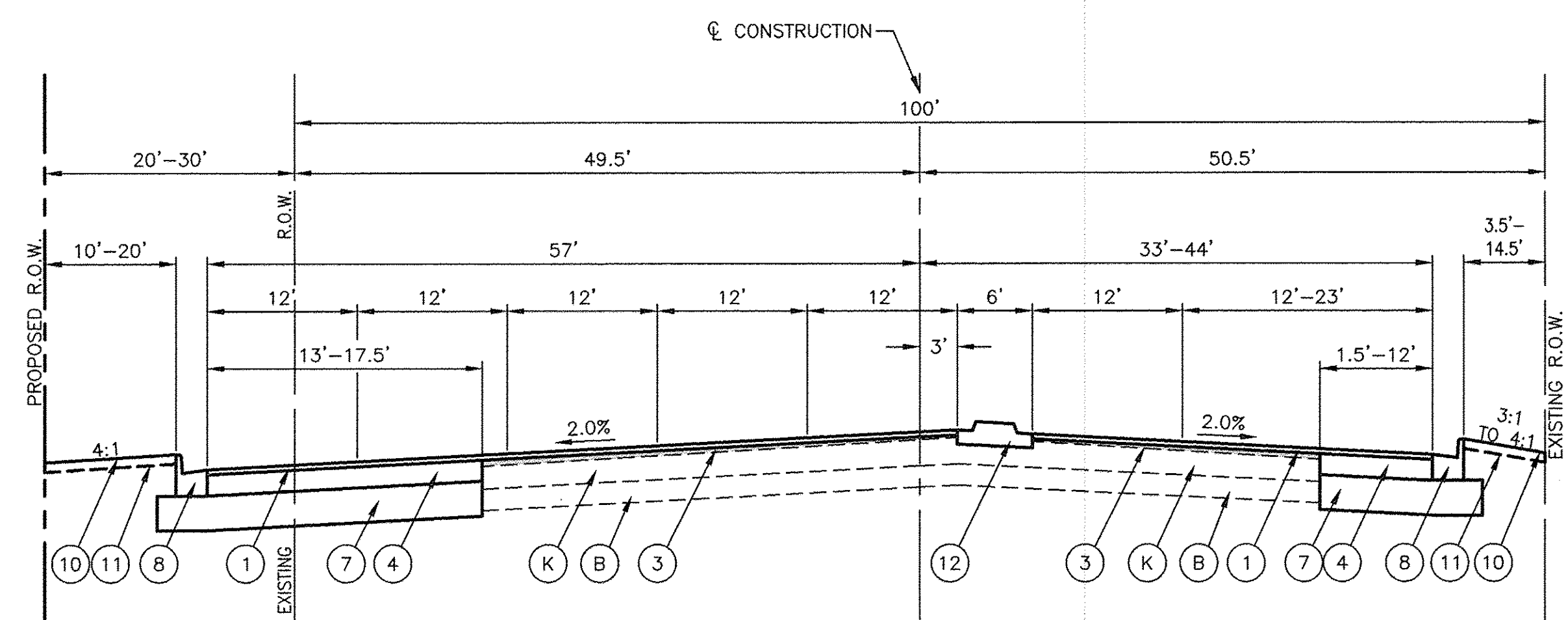
**191ST STREET IMPROVEMENTS
 IL 43 (HARLEM AVENUE)
 TYPICAL CROSS SECTION**

SCALE: NA SHEET NO. 9 OF 108 SHEETS STA. TO STA.

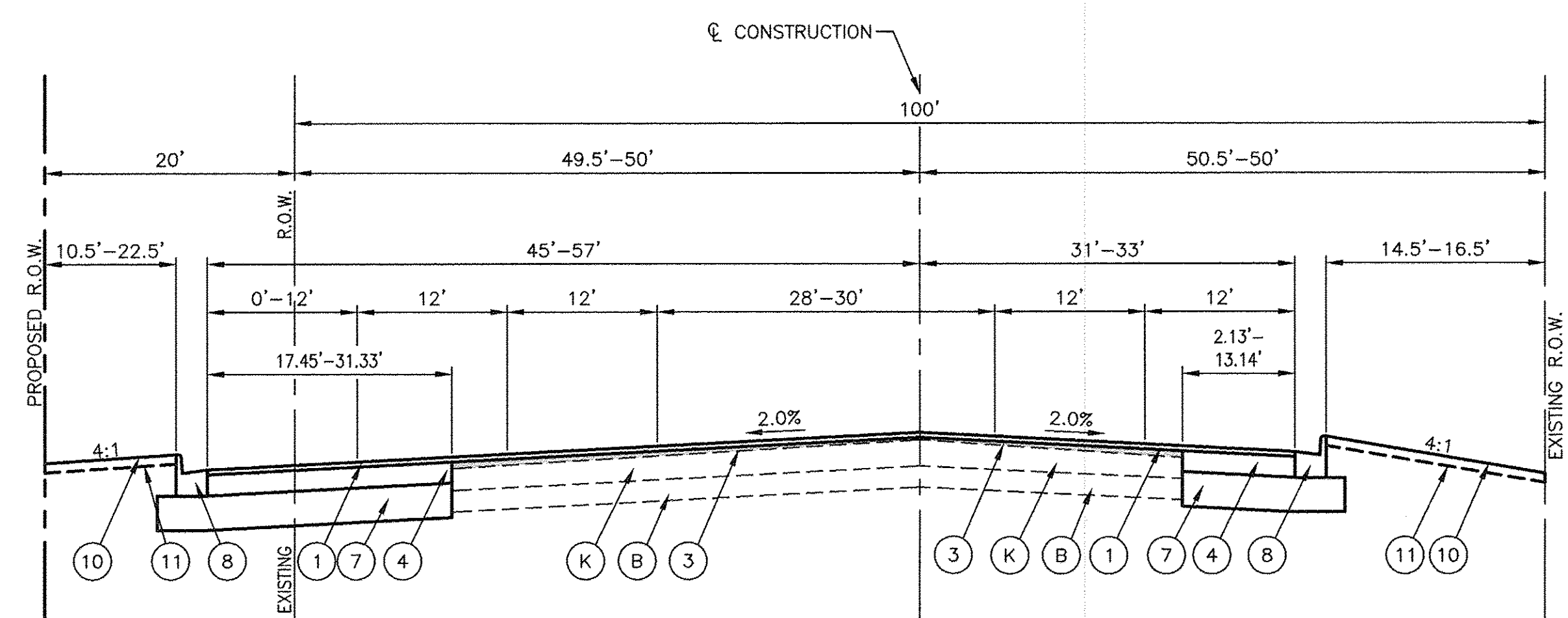
F.A.U. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
3754	01-00098-00-RS	COOK	108	9
CONTRACT NO. 61A03				
FED. ROAD DIST. NO. 1 ILLINOIS FED. AID PROJECT				



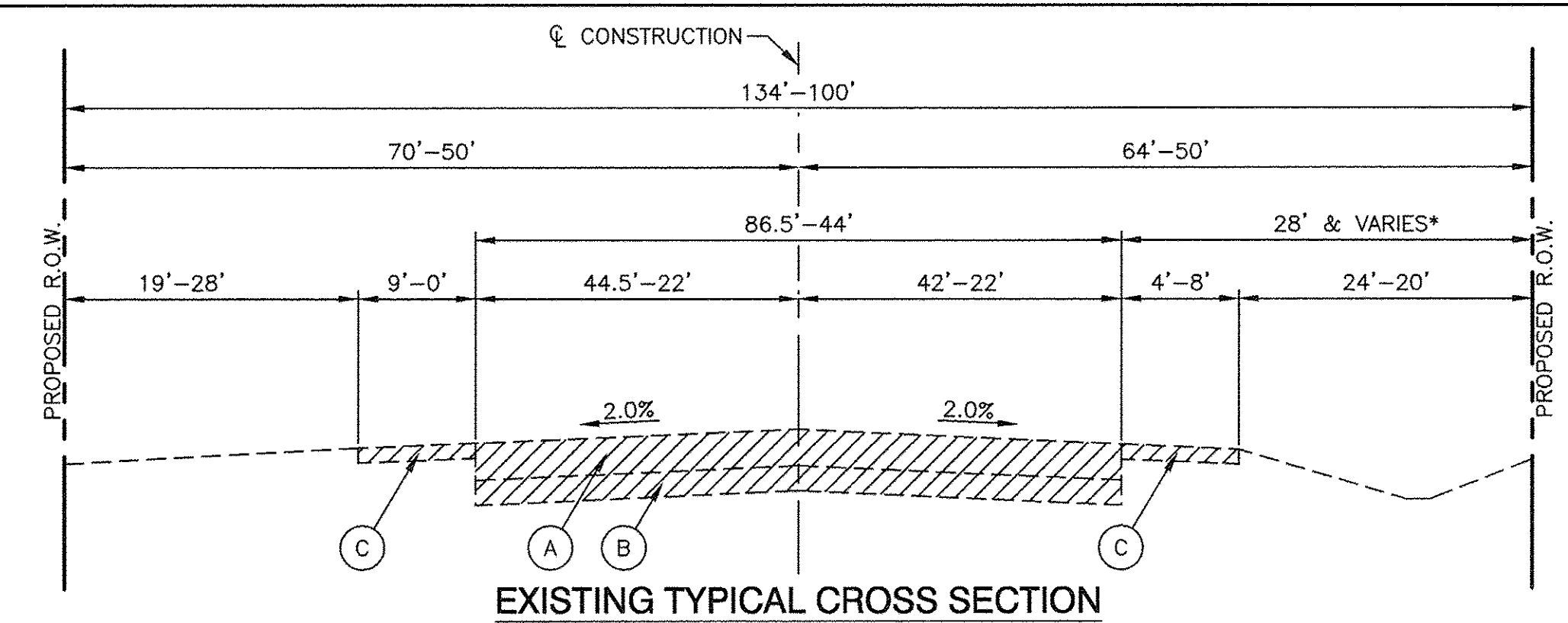
EXISTING TYPICAL CROSS SECTION
191ST STREET
STA 10+50 TO STA 18+52



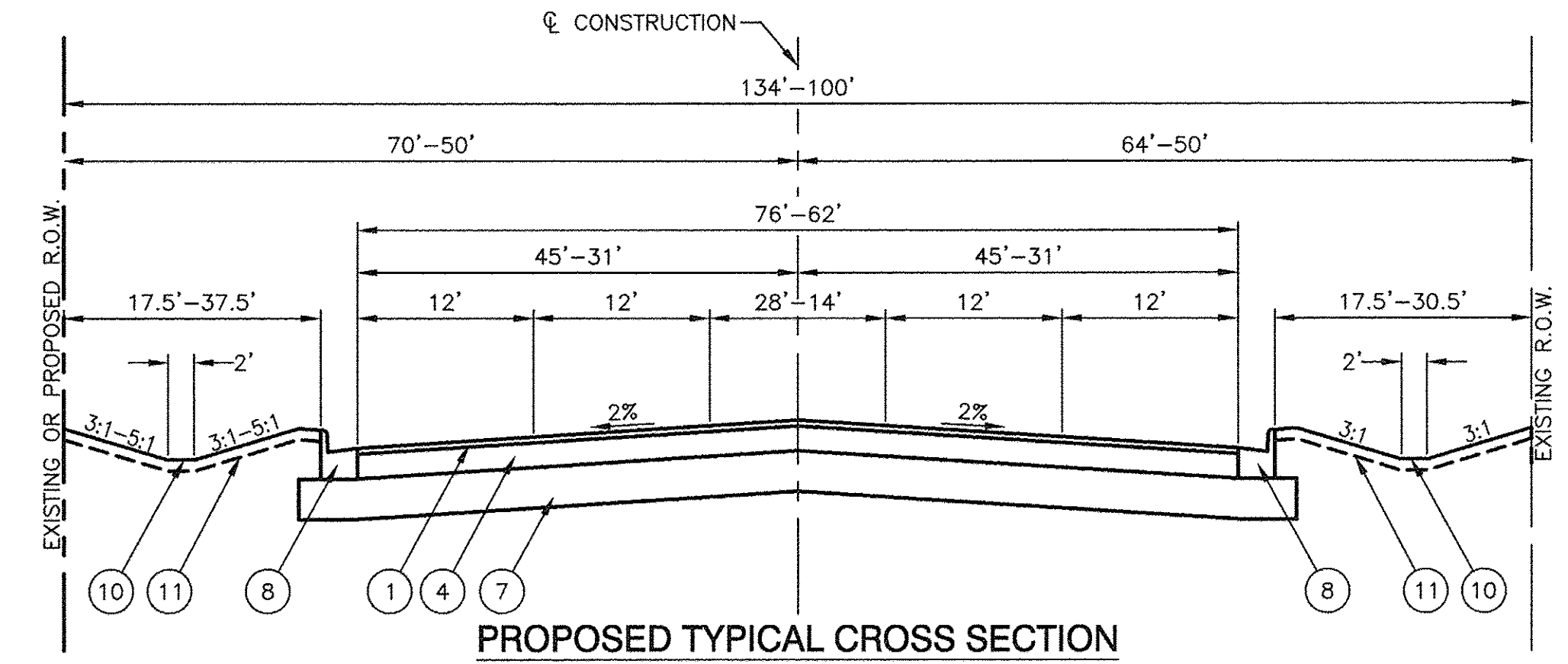
PROPOSED TYPICAL CROSS SECTION
191ST STREET
STA 11+25.91 TO STA 13+06.21



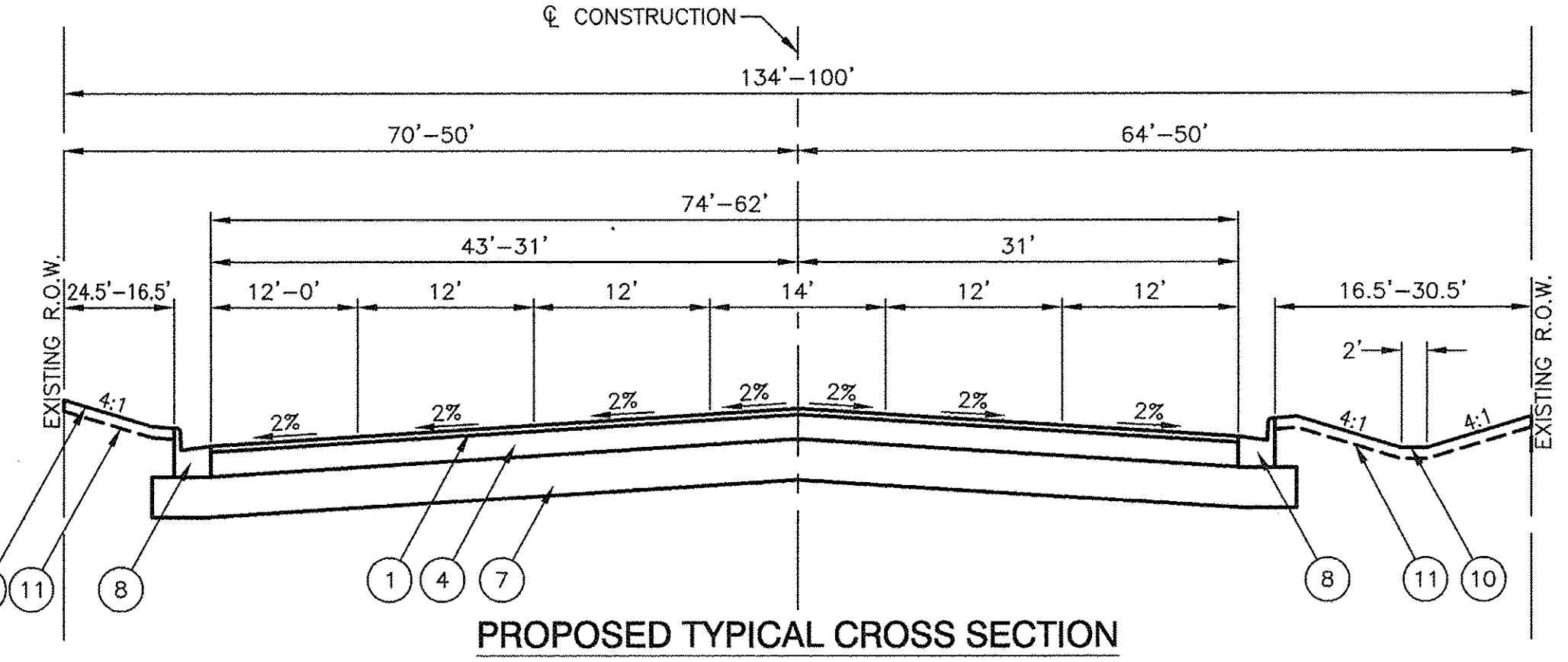
PROPOSED TYPICAL CROSS SECTION
191ST STREET
STA 13+06.21 TO STA 18+52



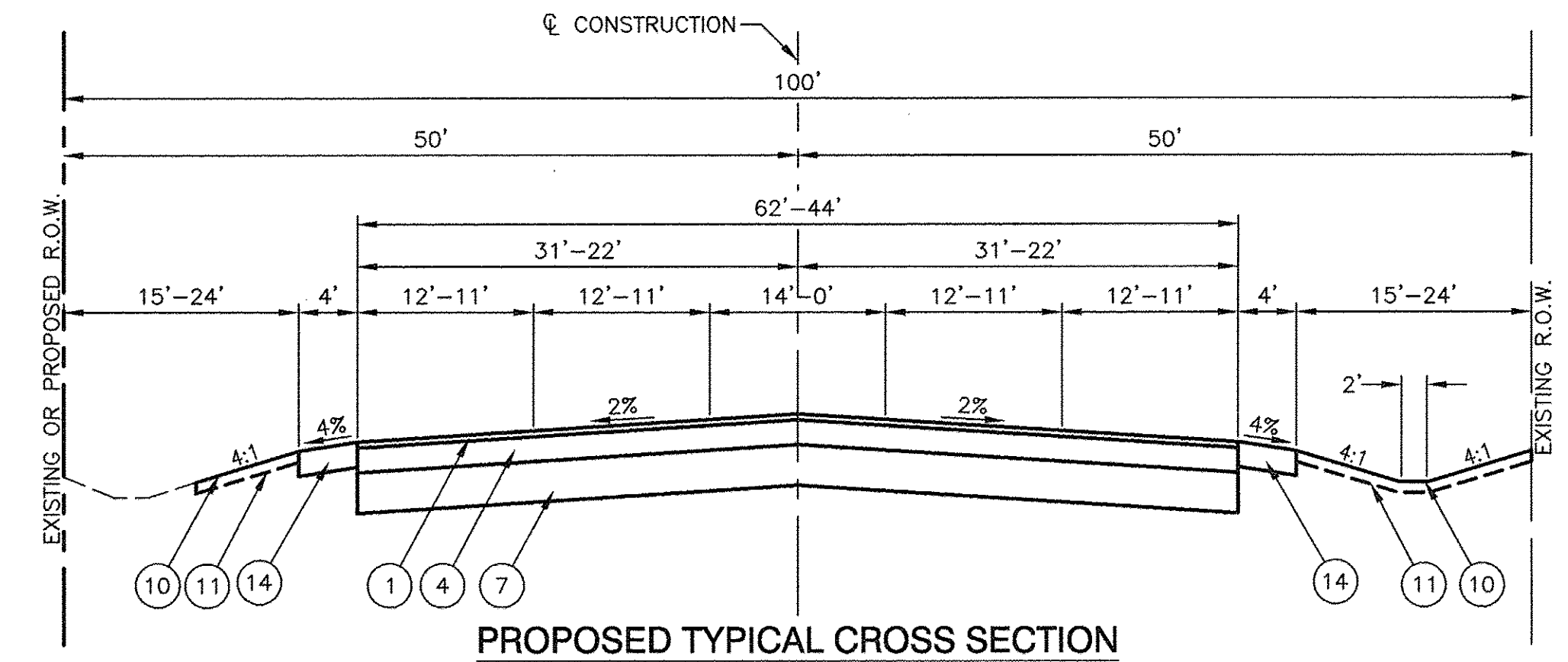
EXISTING TYPICAL CROSS SECTION
191ST STREET
STA 27+03.73 TO STA 34+82.40



PROPOSED TYPICAL CROSS SECTION
191ST STREET
STA 18+52 TO STA 26+66.92



PROPOSED TYPICAL CROSS SECTION
191ST STREET
STA 26+66.92 TO STA 30+97.40



PROPOSED TYPICAL CROSS SECTION
191ST STREET
STA 30+97.40 TO STA 34+82.40

LEGEND

- (A) HMA PAVEMENT, 6" & VARIES
- (B) CRUSHED STONE BASE COURSE, 8" & VARIES
- (C) CRUSHED STONE AGGREGATE SHOULDER, 9.5" & VARIES
- (D) HMA SURFACE COURSE, 2 1/2"
- (E) PCC PAVEMENT, 10"
- (F) STABILIZED SUBBASE, 4"
- (G) PCC MEDIAN
- (H) HMA SHOULDER, 14"
- (I) STEEL PLATE BEAM GUARDRAIL
- (J) COMBINATION CONCRETE CURB & GUTTER
- (K) HMA PAVEMENT & VARIES, 12"
- (L) AGGREGATE BASE, 6"
- (M) HMA SURFACE COURSE, 2"
- (N) HMA SHOULDER, 8"
- (Hatched Box) ITEMS TO BE REMOVED
- (1) HMA SURFACE COURSE, MIX "D", N70 - 2"
- (2) POLYMERIZED HMA SURFACE COURSE, MIX "E", N70 - 1 3/4"
- (3) LEVELING BINDER (MACHINE METHOD), N70 - 3/4"
- (4) HMA BASE COURSE, IL 19 mm, N70, 8"
- (5) HMA BASE COURSE, IL 19 mm, N90, 9"
- (6) HMA BASE COURSE WIDENING, IL 19 mm, N90, 9"
- (7) AGGREGATE SUBGRADE IMPROVEMENT, 12"
- (8) TYPE B-6.24 COMBINATION CONCRETE CURB & GUTTER
- (9) TYPE B-9.06 COMBINATION CONCRETE CURB & GUTTER
- (10) SEEDING, CLASS 2A OR 4
- (11) TOPSOIL FURNISH AND PLACE, 6"
- (12) CONCRETE MEDIAN TYPE SB 9.06 (SPECIAL)
- (13) STEEL PLATE BEAM GUARDRAIL, TYPE A
- (14) HMA SHOULDERS, 6"

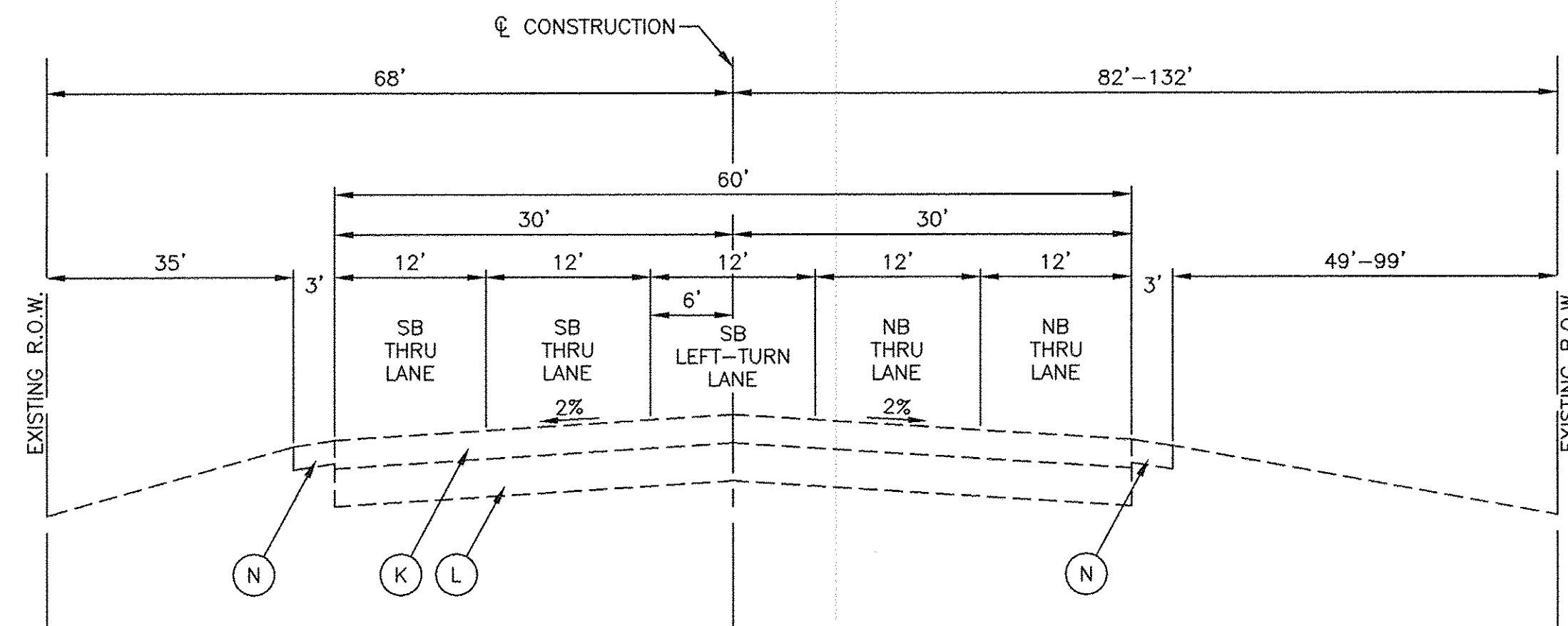
FILE NAME = 04252-TYPX-01

USER NAME =	DESIGNED -- WPD	REVISED --
	CHECKED -- WPD	REVISED --
PLOT SCALE =	DRAWN -- AG	REVISED --
PLOT DATE = 12-05-16	CHECKED -- ACAD	REVISED --

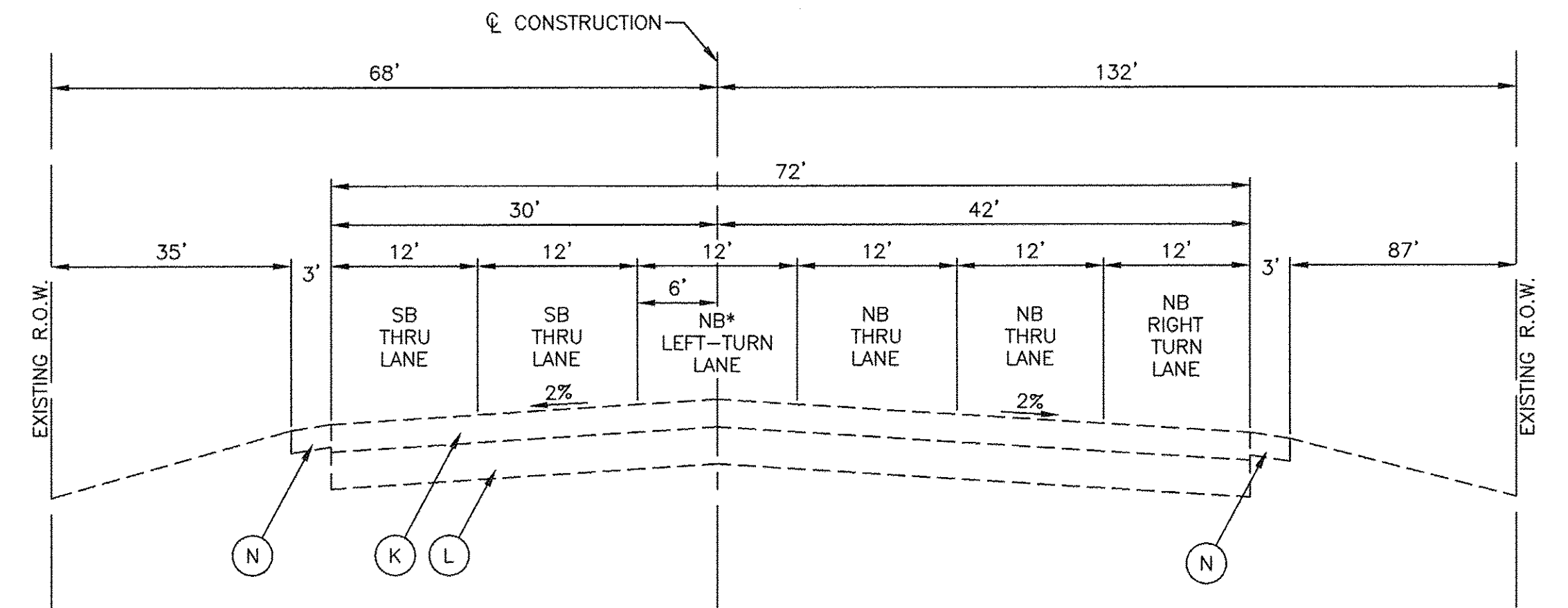
STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

191ST STREET IMPROVEMENT		
191ST STREET		
TYPICAL CROSS SECTION		
SCALE: NA	SHEET NO. 10 OF 108 SHEETS	STA. TO STA.

F.A.U. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
3754	01-0098-00-RS	COOK	108	10
CONTRACT NO. 61A03				
FED. ROAD DIST. NO. 1 ILLINOIS FED. AID PROJECT				



EXISTING AND PROPOSED TYPICAL SECTION
OAK PARK AVENUE
STA 206+12.97 TO STA 212+03.03



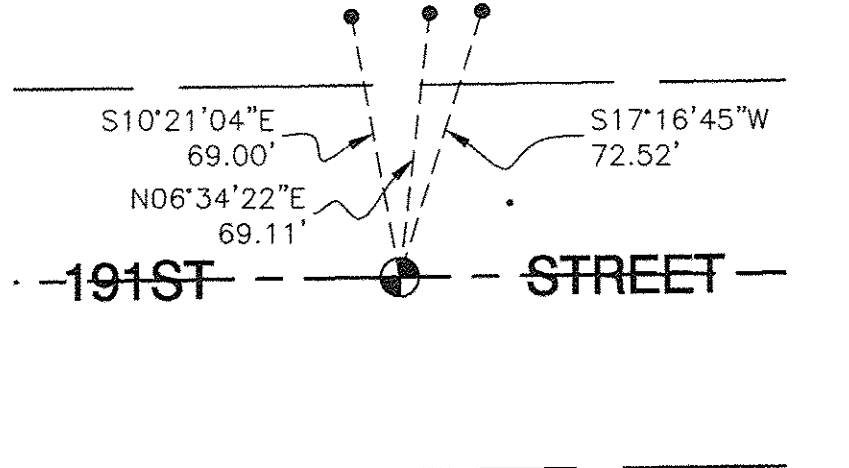
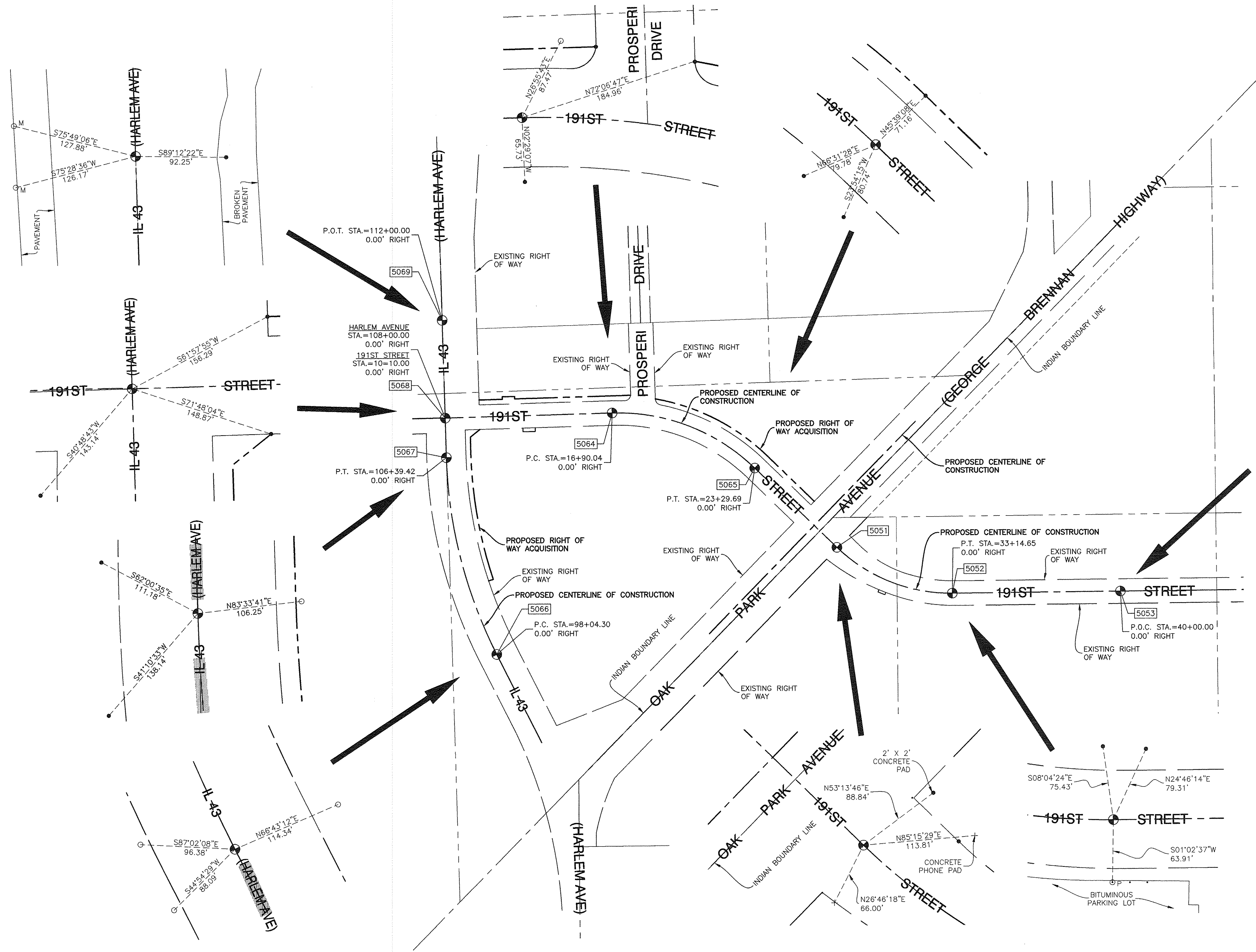
EXISTING AND PROPOSED TYPICAL SECTION
OAK PARK AVENUE
STA 201+13 TO STA 206+12.97

*PAINTED MEDIAN FOR EXISTING CONDITION.

LEGEND

- (A) HMA PAVEMENT, 6" & VARIES
- (B) CRUSHED STONE BASE COURSE, 8" & VARIES
- (C) CRUSHED STONE AGGREGATE SHOULDER, 9.5" & VARIES
- (D) HMA SURFACE COURSE, 2 1/2"
- (E) PCC PAVEMENT, 10"
- (F) STABILIZED SUBBASE, 4"
- (G) PCC MEDIAN
- (H) HMA SHOULDER, 14"
- (I) STEEL PLATE BEAM GUARDRAIL
- (J) COMBINATION CONCRETE CURB & GUTTER
- (K) HMA PAVEMENT & VARIES, 12"
- (L) AGGREGATE BASE, 6"
- (M) HMA SURFACE COURSE, 2"
- (N) HMA SHOULDER, 8"
- [Hatched Box] ITEMS TO BE REMOVED

FILE NAME = 04252-TYPX-01	USER NAME =	DESIGNED — WPD	REVISED —	STATE OF ILLINOIS DEPARTMENT OF TRANSPORTATION	191ST STREET IMPROVEMENT 191ST STREET TYPICAL CROSS SECTION			F.A.U. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
	PLOT SCALE =	CHECKED — WPD	REVISED —		3754	01-00098-00-RS	COOK	108	11			
PLOT DATE = 12-05-16	DRAWN — AG	REVISED —	SCALE: NA		SHEET NO. 11 OF 108 SHEETS	STA. TO STA.	CONTRACT NO. 61A03					
	CHECKED — ACAD	REVISED —				FED. ROAD DIST. NO. 1	ILLINOIS	FED. AID PROJECT				



FILE NAME = 04-252 TIE_SHEET - IDOT P01

USER NAME =	DESIGNED -- WPD	REVISED --
	CHECKED -- WPD	REVISED --
PLOT SCALE =	DRAWN -- ACAD	REVISED --
PLOT DATE = 12-05-16	CHECKED -- ACAD	REVISED --

**STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION**

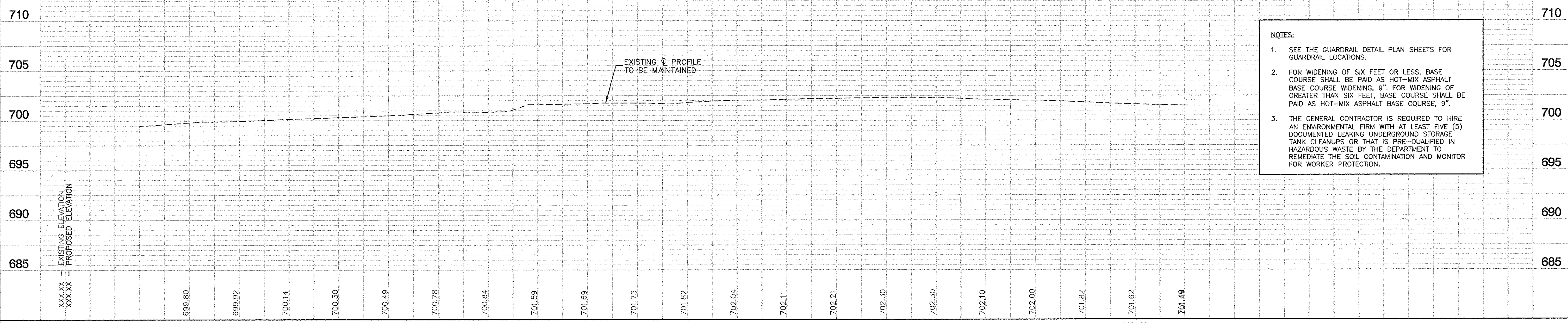
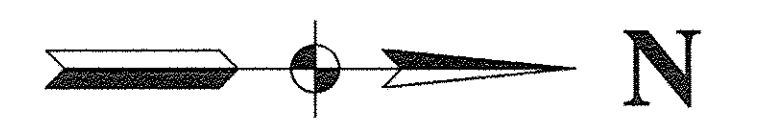
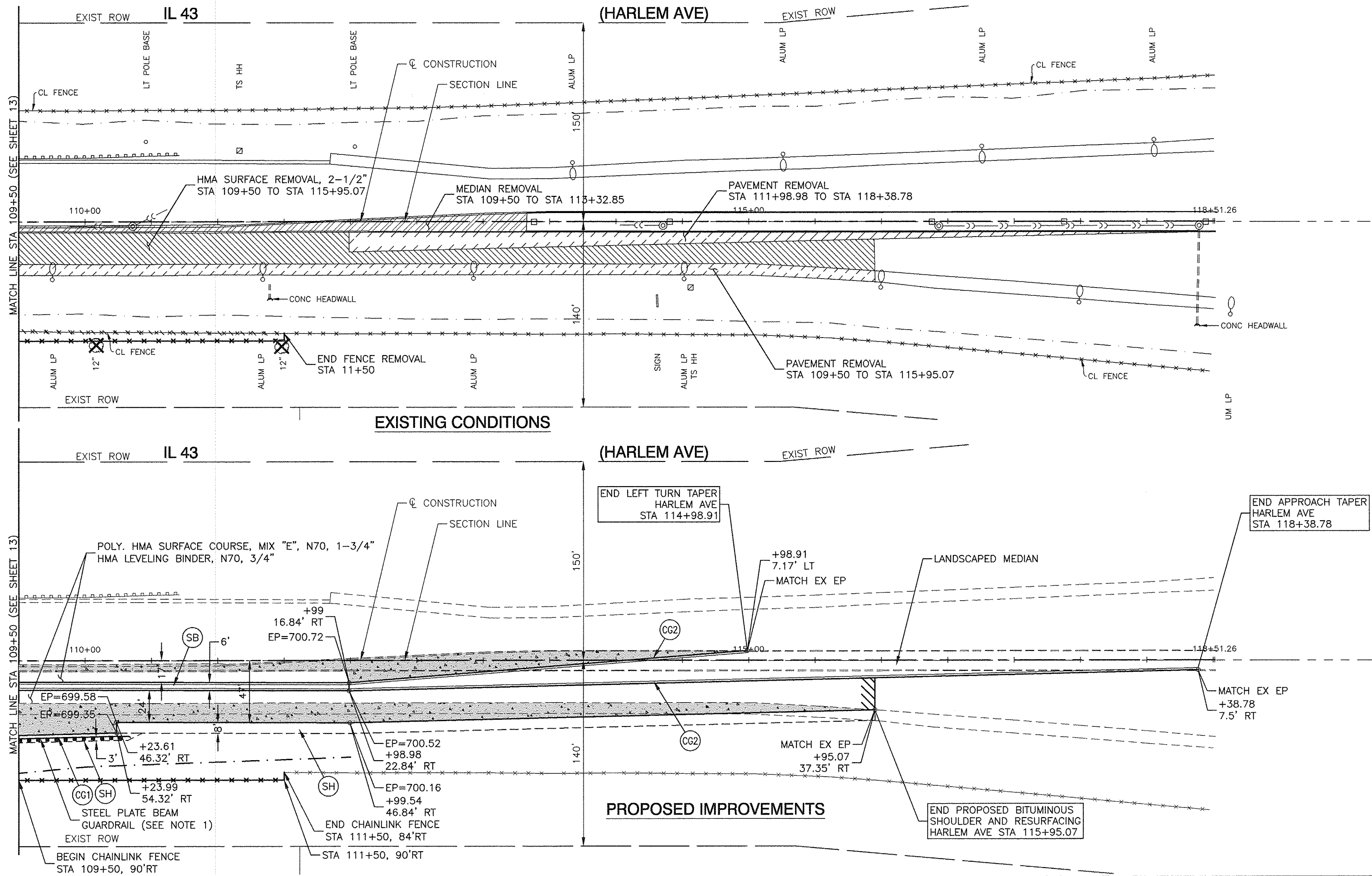
**191ST STREET IMPROVEMENTS
ALIGNMENT & TIES**

SCALE: SHEET NO. 12 OF 108 SHEETS STA. TO STA.

F.A.U. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
3754	01-00098-00-RS	COOK	108	12
CONTRACT NO. 61A03				
FED. ROAD DIST. NO. 1	ILLINOIS	FED. AID PROJECT		

PLAN	SURVEYED	DATE
	PLOTTED	
	CHECKED	
	BY	
	NO.	
	FILE NAME	

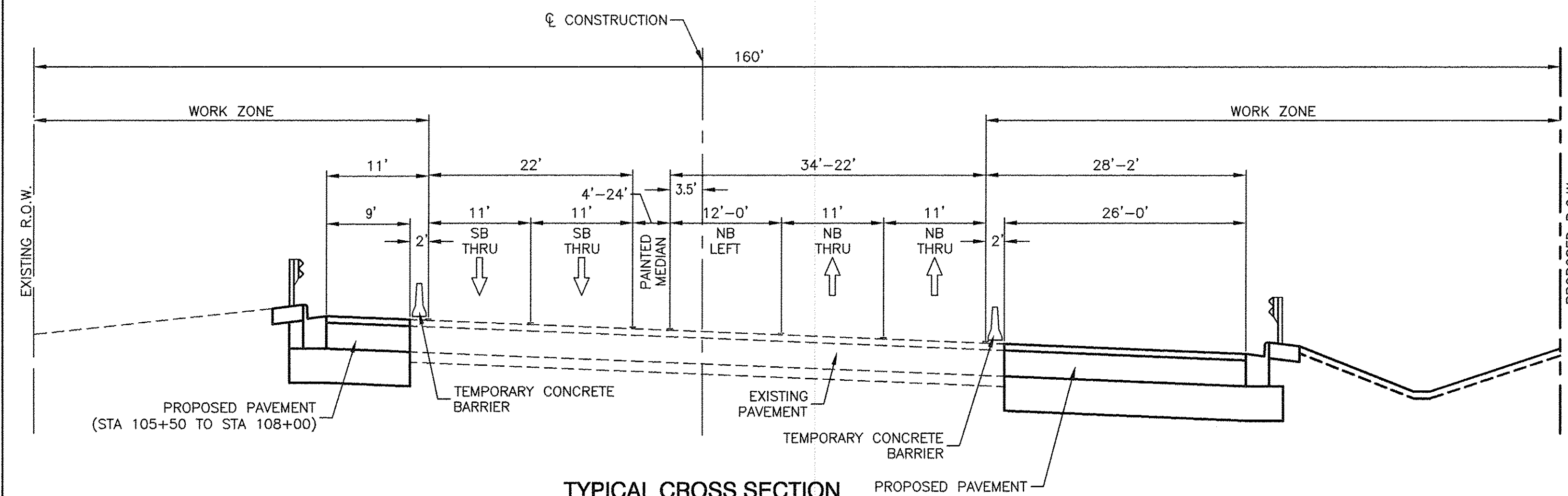
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	PLOTTED	
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	BY	
	NO.	
	FILE NAME	



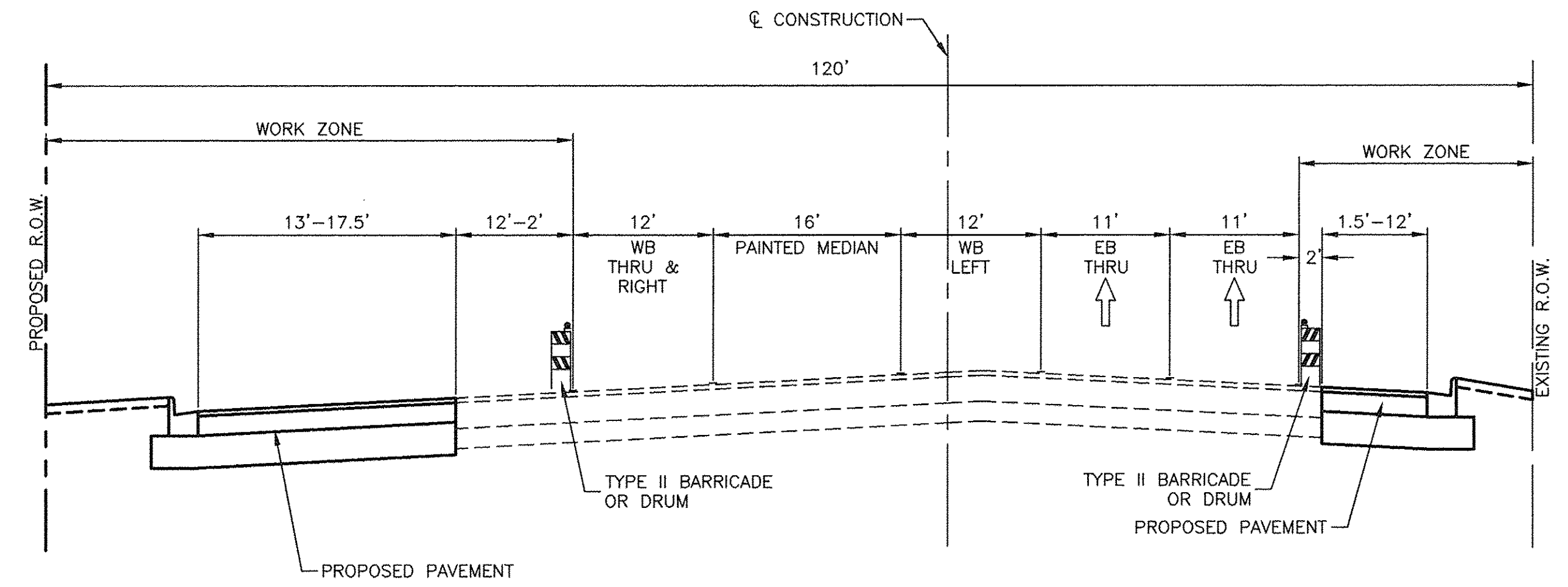
NOTES:

- SEE THE GUARDRAIL DETAIL PLAN SHEETS FOR GUARDRAIL LOCATIONS.
- FOR WIDENING OF SIX FEET OR LESS, BASE COURSE SHALL BE PAID AS HOT-MIX ASPHALT BASE COURSE WIDENING, 9". FOR WIDENING OF GREATER THAN SIX FEET, BASE COURSE SHALL BE PAID AS HOT-MIX ASPHALT BASE COURSE, 9".
- THE GENERAL CONTRACTOR IS REQUIRED TO HIRE AN ENVIRONMENTAL FIRM WITH AT LEAST FIVE (5) DOCUMENTED LEAKING UNDERGROUND STORAGE TANK CLEANUPS OR THAT IS PRE-QUALIFIED IN HAZARDOUS WASTE BY THE DEPARTMENT TO REMEDIATE THE SOIL CONTAMINATION AND MONITOR FOR WORKER PROTECTION.

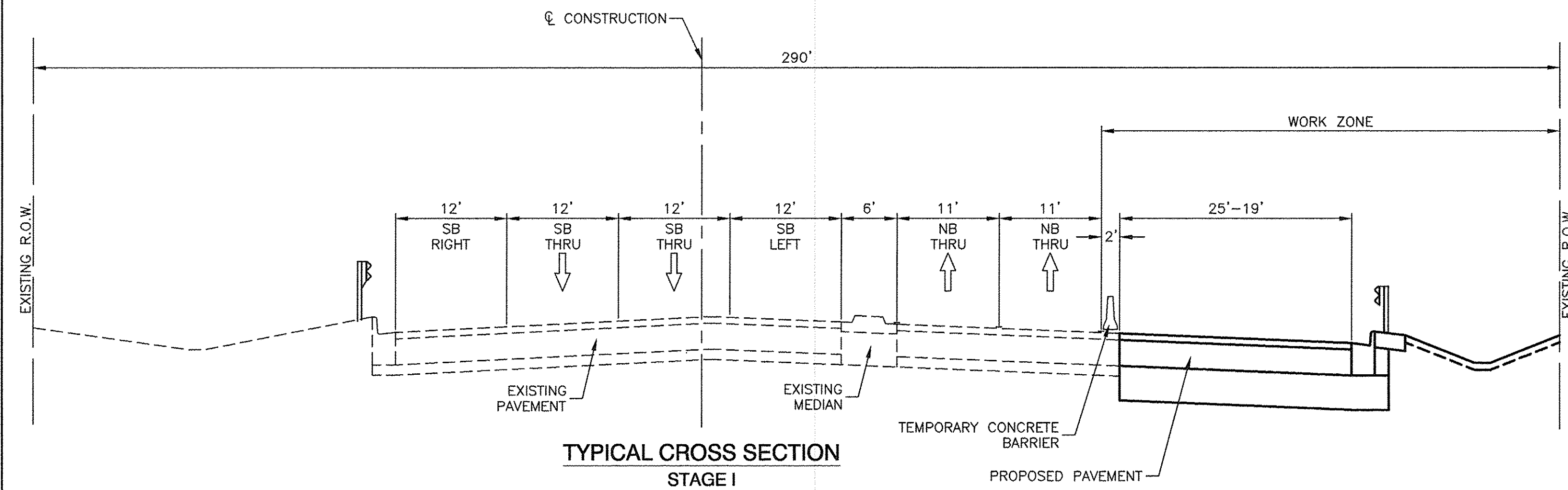
FILE NAME = 04252-PLPR-01	USER NAME =	DESIGNED - WPD	REVISED -	STATE OF ILLINOIS DEPARTMENT OF TRANSPORTATION	191ST STREET IMPROVEMENTS PLAN AND PROFILE IL 43 (HARLEM AVENUE) - STA 109+50 TO END IMPROVEMENTS		F.A.U. RTE. 3754	SECTION 01-00098-00-RS	COUNTY COOK	TOTAL SHEETS 108	SHEET NO. 17
	PLOT SCALE = 1"=50'	CHECKED - WPD	REVISED -		SCALE: H 1"=50, V 1"=5'	SHEET NO. 17	OF 108 SHEETS	STA. TO STA.	FED. ROAD DIST. NO. 1	ILLINOIS	FED. AID PROJECT
	PLOT DATE = 12-05-16	DRAWN - ACAD	REVISED -								
		CHECKED - ACAD	REVISED -								



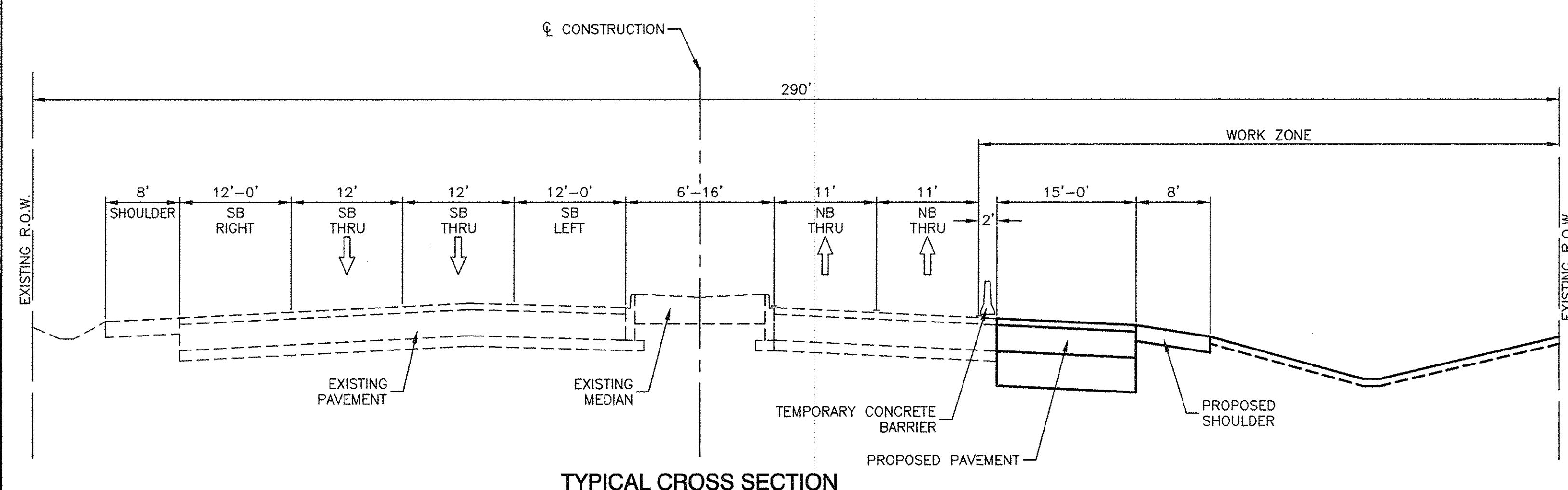
TYPICAL CROSS SECTION
 STAGE I
 IL 43 (HARLEM AVENUE)
 STA 97+86.82 TO STA 108+00



TYPICAL CROSS SECTION
 STAGE I
 191ST STREET
 STA 10+50 TO STA 18+52



TYPICAL CROSS SECTION
 STAGE I
 IL 43 (HARLEM AVENUE)
 STA 108+00 TO STA 110+24



TYPICAL CROSS SECTION
 STAGE I
 IL 43 (HARLEM AVENUE)
 STA 110+24 TO STA 115+95

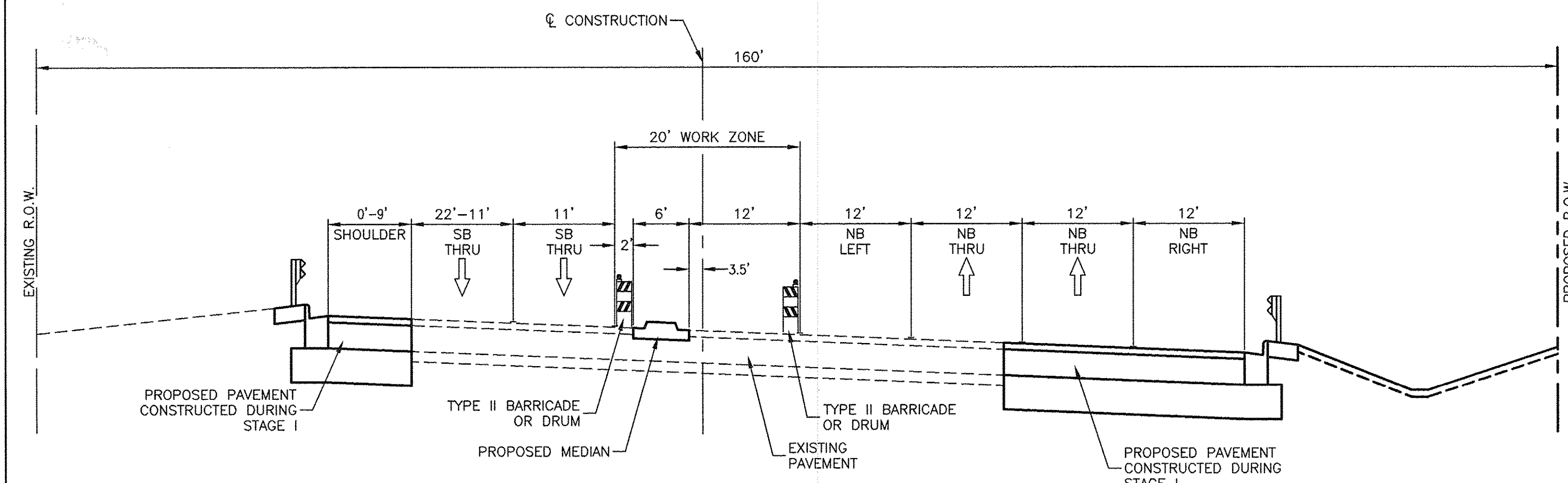
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PLOT DATE = 12-05-16	CHECKED -- ACAD	REVISED --

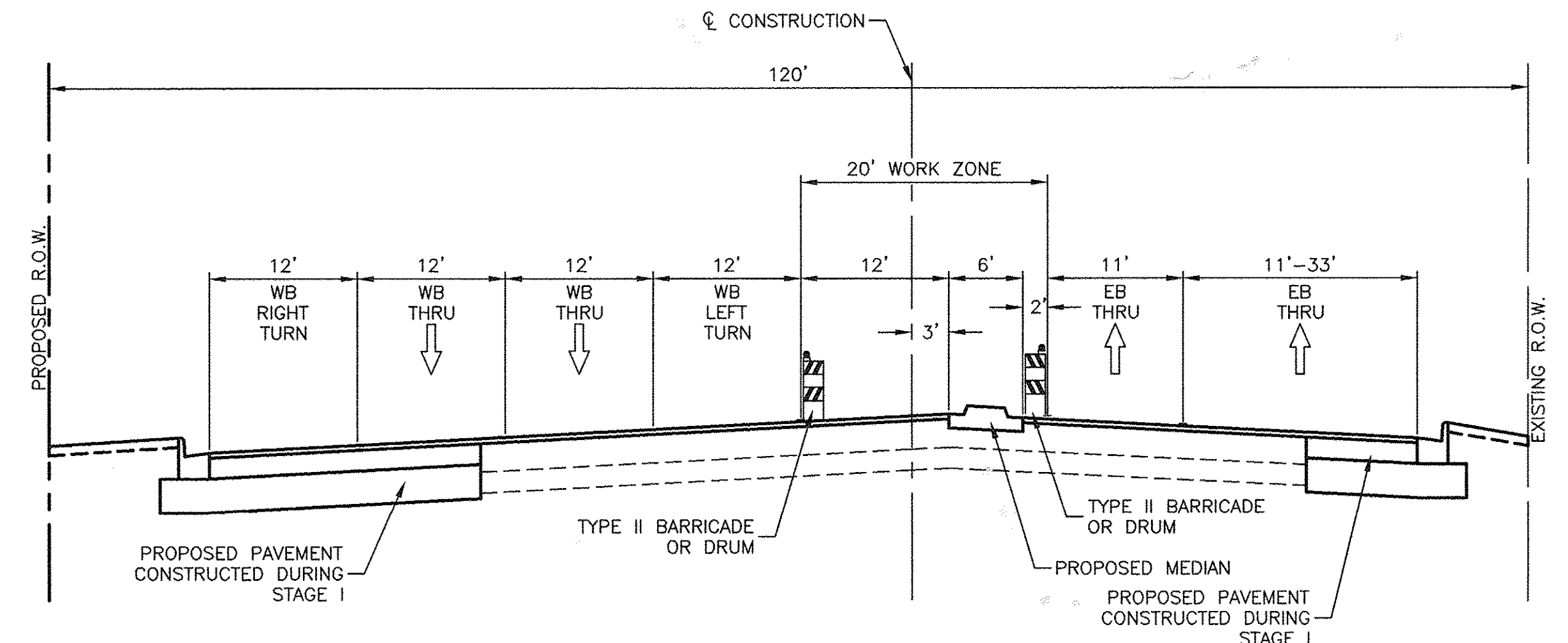
STATE OF ILLINOIS
 DEPARTMENT OF TRANSPORTATION

191ST STREET IMPROVEMENTS SUGGESTED CONSTRUCTION STAGING TYPICAL CROSS SECTIONS - STAGE I		
SCALE: NA	SHEET NO. 18 OF 108 SHEETS	STA. TO STA.

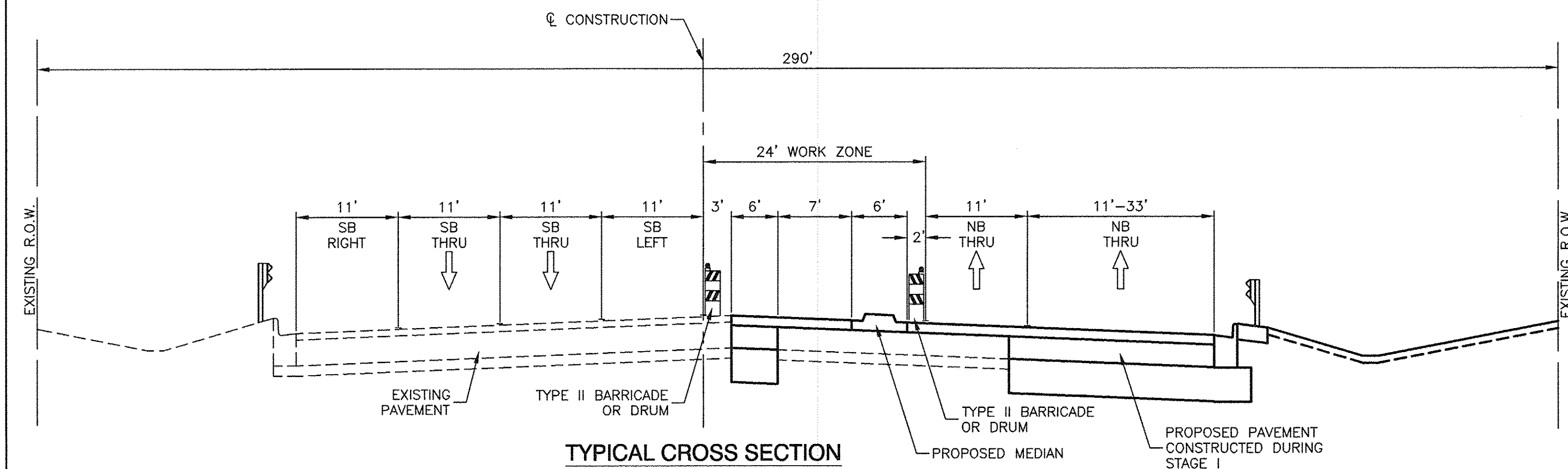
F.A.U. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
3754	01-00098-00-RS	COOK	108	18
CONTRACT NO. 61A03				
FED. ROAD DIST. NO. 1 ILLINOIS FED. AID PROJECT				



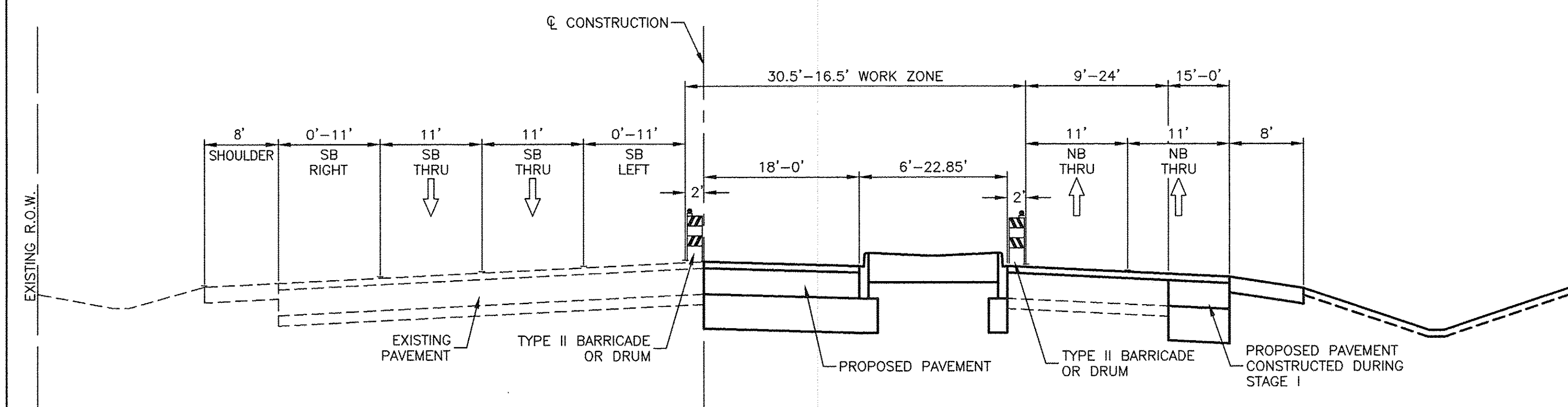
TYPICAL CROSS SECTION
STAGE II
IL 43 (HARLEM AVENUE)
STA 104+45 TO STA 107+20



TYPICAL CROSS SECTION
STAGE II
191ST STREET
STA 11+00 TO STA 13+10



TYPICAL CROSS SECTION
STAGE II
IL 43 (HARLEM AVENUE)
STA 108+65 TO STA 111+99



TYPICAL CROSS SECTION
STAGE II
IL 43 (HARLEM AVENUE)
STA 111+99 TO STA 118+38.78

FILE NAME = 04252-TYPX-02

USER NAME =	DESIGNED -- WPD	REVISED --
	CHECKED -- WPD	REVISED --
PLOT SCALE =	DRAWN -- AG	REVISED --
PLOT DATE = 12-05-16	CHECKED -- ACAD	REVISED --

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

191ST STREET IMPROVEMENTS			
SUGGESTED CONSTRUCTION STAGING			
TYPICAL CROSS SECTION - STAGE II			
SCALE: NA	SHEET NO. 19 OF 108 SHEETS	STA. TO STA.	

F.A.U. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
3754	01-00098-00-RS	COOK	108	19
CONTRACT NO. 61A03				
FED. ROAD DIST. NO. 1	ILLINOIS	FED. AID PROJECT		

SUGGESTED STAGING NOTES

Pre-Stage Construction

- Install temporary signals at 191st Street and Harlem Avenue.

Pre-Stage Traffic Control

- The work to be performed in the Pre-Stage will be completed using Highway Standards 701101 and 701701.
- 191st Street will be closed during construction from Prosperi Drive to Ridgeland Avenue. All properties have access from Ridgeland Avenue or Oak Park Avenue. No detour route is required since this section of 191st Street is currently private, not a through street and only provides access to the amphitheater.
- Full closure of 191st Street east of Oak Park Avenue shall be no longer than one (1) month to minimize traffic disruption during events at the amphitheater.

Stage 1 Construction

- Construct pavement widening from Station 97+86 to Station 115+95 along the east side of Harlem Avenue.
- Construct pavement widening from Station 105+50 to Station 106+90 along the west side of Harlem Avenue.
- Construct pavement widening from Harlem Avenue to Prosperi Drive along both the north and south sides of 191st Street.

Stage 1 Traffic Control

- Install temporary concrete barrier along IL Route 43 (Harlem Avenue).
- North leg of Harlem Avenue - Maintain 2- 11' northbound lanes; southbound lanes to follow existing patterns.
- South leg of Harlem Avenue - Maintain 2-11' northbound and southbound lanes and 1-12' left turn lane.
- East leg of 191st Street at Harlem Avenue - Maintain 2- 11' eastbound through lanes, close the north westbound through/right lane; maintain existing westbound left turn and change the remaining through lane to a through/right lane.
- West leg of 191st Street at Harlem Avenue - Maintain existing westbound patterns; maintain existing eastbound dual lefts; maintain 2- 11' eastbound through lanes.

Stage 2 Construction

- Remove existing pavement and median necessary to construct the proposed dual left turn lanes and medians for northbound and southbound Harlem Avenue.
- Construct the proposed median for the east leg of 191st Street at Harlem Avenue.

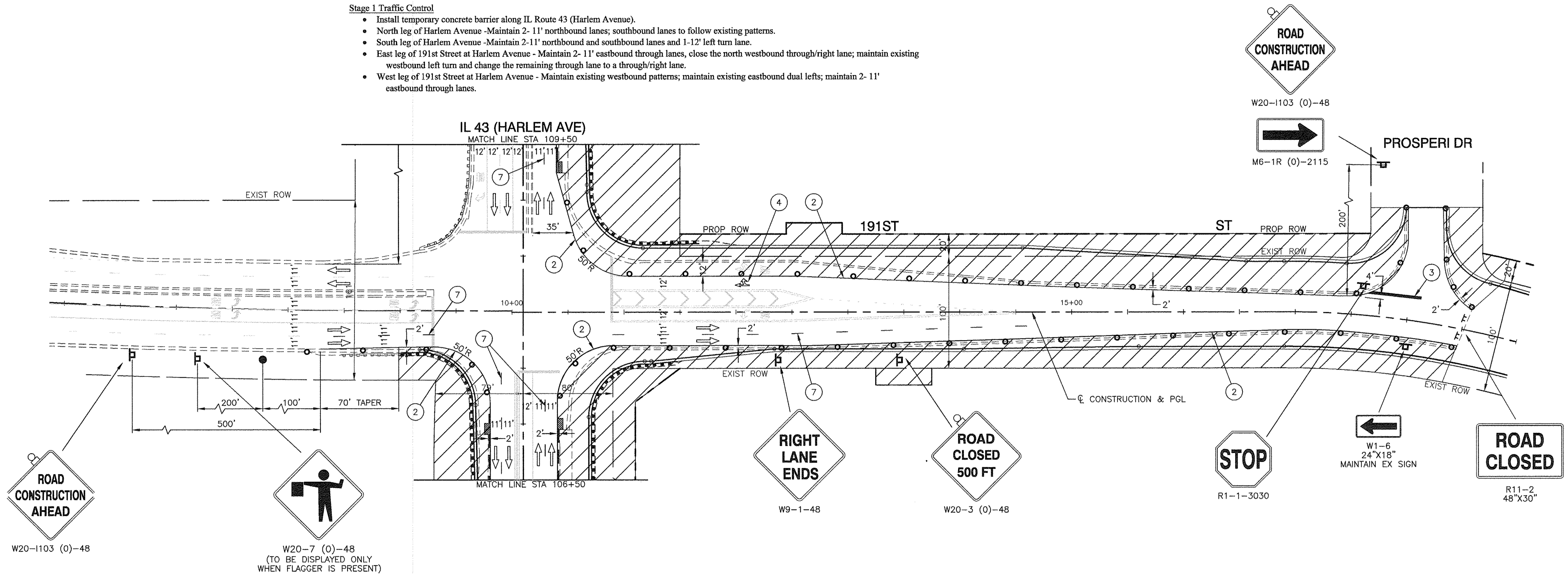
Stage 2 Traffic Control

- Remove temporary concrete barrier along IL Route 43 (Harlem Avenue).
- North leg of Harlem Avenue - Shift northbound traffic onto newly constructed pavement. Maintain 2- 11' northbound and southbound lanes; maintain 1-11' southbound exclusive right turn lane and 1-11' southbound left turn lane.
- South leg of Harlem Avenue - Shift northbound traffic onto newly constructed pavement. Maintain 2-11' southbound lanes maintain 2-12' northbound lanes, 1- 12' left turn lane, and 1- 12' exclusive right turn lane.
- East leg of 191st Street at Harlem Avenue - Maintain 2- 12' westbound through lanes, 1-12' left turn lane and 1-12' exclusive right turn lane; maintain 2- 11' eastbound through lanes.
- West leg of 191st Street at Harlem Avenue - Maintain existing traffic patterns.



DATE	
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PLAN	
NOTE BOOK	
NO.	
SURVEYED	
ALIGNED	
CHECKED	
RT. OF WAY	
CHECKED	
DATE	
FILE NAME	

DATE	
BY	
PROFILE	
NOTE BOOK	
NO.	
SURVEYED	
GRADES	
CHECKED	
E.M. NOTED	



LEGEND

- | | |
|--|--|
| <ul style="list-style-type: none"> ① 4" YELLOW EDGE LINE - TEMPORARY PAVEMENT MARKINGS ② 4" WHITE EDGE LINE - TEMPORARY PAVEMENT MARKINGS ③ 24" WHITE STOP BAR - TEMPORARY PAVEMENT MARKINGS ④ LETTERS & SYMBOLS - TEMPORARY PAVEMENT MARKINGS ⑤ 6" WHITE LANE LINE - TEMPORARY PAVEMENT MARKINGS ⑥ 12" WHITE DIAGONAL (75' C/C) - TEMPORARY PAVEMENT MARKINGS ⑦ 4" WHITE SKIP DASH (10' LINE-30' SPACE) - TEMPORARY PAVEMENT MARKINGS ⑧ 4" DOUBLE YELLOW MEDIAN OUTLINE - TEMPORARY PAVEMENT MARKINGS ⑨ 12" YELLOW DIAGONAL - TEMPORARY PAVEMENT MARKINGS ⑩ 4" WHITE SKIP DASH (2' LINE-6' SPACE) - TEMPORARY PAVEMENT MARKINGS | <ul style="list-style-type: none"> ○ TYPE II BARRICADES OR DRUM WITH BI-DIRECTIONAL STEADY BURNING LIGHT ON TLTW SECTIONS AND MONO-DIRECTIONAL STEADY BURN LIGHT ON ONE WAY OR MULTI LANE SECTIONS PLACED AT 50' CENTERS IN TANGENTS AND 20' CENTERS IN TAPERS AND CURVES ⊥ TYPE III BARRICADE WITH STEADY BURNING LIGHT ⊞ SIGN ● FLAGGER WITH TRAFFIC CONTROL SIGN, SEE NOTE 1 ▨ WORK AREA - - - TEMPORARY CONCRETE BARRIER (F SHAPE DESIGN) ■ IMPACT ATTENUATORS, TEMPORARY (FULLY REDIRECTIVE, NARROW), TEST LEVEL 3 |
|--|--|

NOTE:

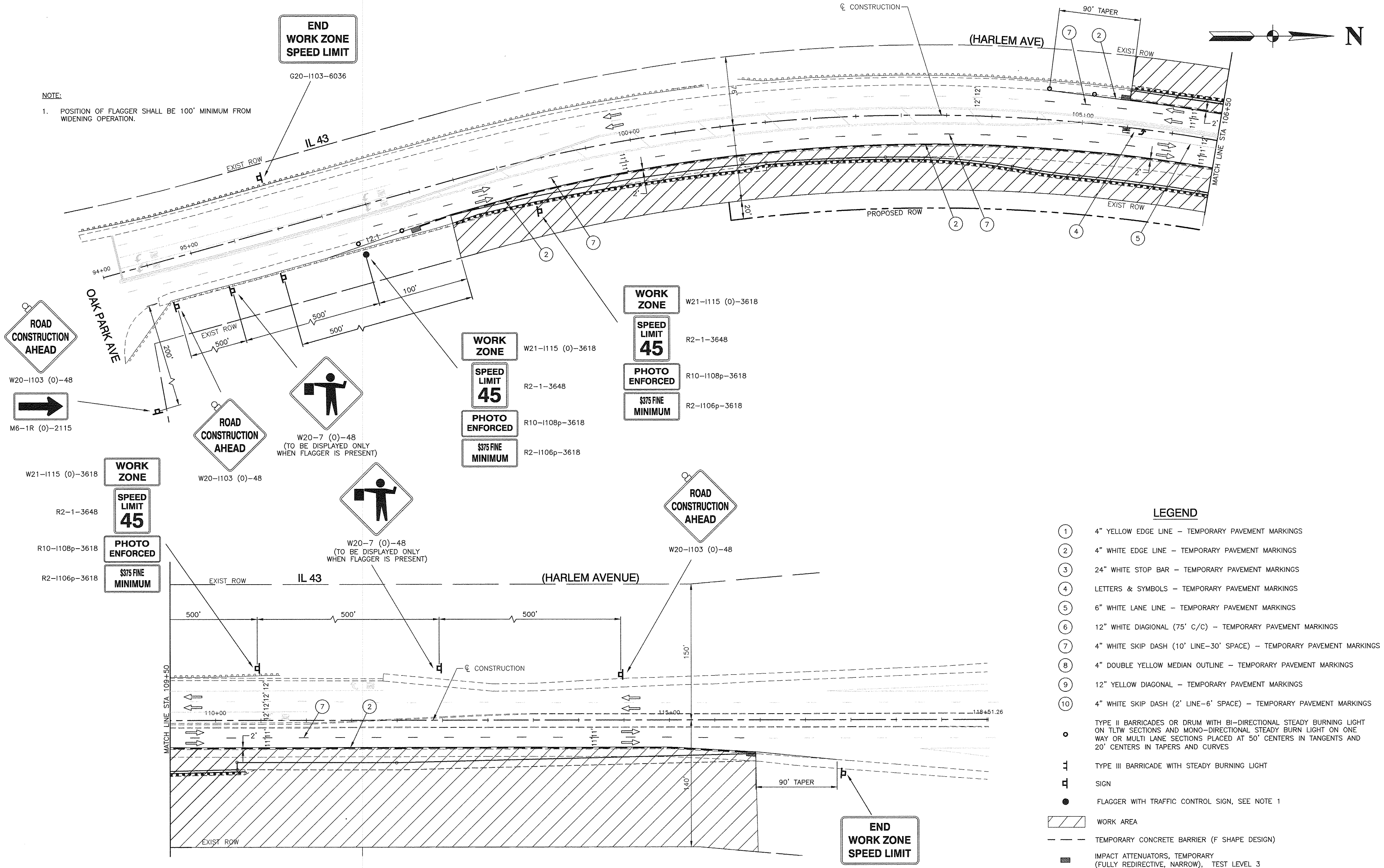
1. POSITION OF FLAGGER SHALL BE 100' MINIMUM FROM WIDENING OPERATION.

FILE NAME = 04252-TCON-01	USER NAME =	DESIGNED - WPD	REVISED -	STATE OF ILLINOIS DEPARTMENT OF TRANSPORTATION	191ST STREET IMPROVEMENTS SUGGESTED CONSTRUCTION STAGING 191ST STREET - STAGE 1	F.A.U. RTE. 3754	SECTION 01-00098-00-RS	COUNTY COOK	TOTAL SHEETS 108	SHEET NO. 20
	PLOT SCALE = 1"=50'	DRAWN - ACAD	REVISED -			CONTRACT NO. 61A03				
	PLOT DATE = 12-05-16	CHECKED - ACAD	REVISED -		SCALE: 1"=50	SHEET NO. 20	OF 108 SHEETS	STA.	TO STA.	FED. ROAD DIST. NO. 1 ILLINOIS FED. AID PROJECT

DATE	
BY	
SURVEYED	
PLANNED	
NOTED	
NO.	
FILE NAME	

DATE	
BY	
SURVEYED	
PLANNED	
NOTED	
NO.	
FILE NAME	

NOTE:
1. POSITION OF FLAGGER SHALL BE 100' MINIMUM FROM WIDENING OPERATION.



- LEGEND**
- ① 4" YELLOW EDGE LINE - TEMPORARY PAVEMENT MARKINGS
 - ② 4" WHITE EDGE LINE - TEMPORARY PAVEMENT MARKINGS
 - ③ 24" WHITE STOP BAR - TEMPORARY PAVEMENT MARKINGS
 - ④ LETTERS & SYMBOLS - TEMPORARY PAVEMENT MARKINGS
 - ⑤ 6" WHITE LANE LINE - TEMPORARY PAVEMENT MARKINGS
 - ⑥ 12" WHITE DIAGONAL (75° C/C) - TEMPORARY PAVEMENT MARKINGS
 - ⑦ 4" WHITE SKIP DASH (10' LINE-30' SPACE) - TEMPORARY PAVEMENT MARKINGS
 - ⑧ 4" DOUBLE YELLOW MEDIAN OUTLINE - TEMPORARY PAVEMENT MARKINGS
 - ⑨ 12" YELLOW DIAGONAL - TEMPORARY PAVEMENT MARKINGS
 - ⑩ 4" WHITE SKIP DASH (2' LINE-6' SPACE) - TEMPORARY PAVEMENT MARKINGS
- TYPE II BARRICADES OR DRUM WITH BI-DIRECTIONAL STEADY BURNING LIGHT ON TLW SECTIONS AND MONO-DIRECTIONAL STEADY BURN LIGHT ON ONE WAY OR MULTI LANE SECTIONS PLACED AT 50' CENTERS IN TANGENTS AND 20' CENTERS IN TAPERS AND CURVES
 - ⊥ TYPE III BARRICADE WITH STEADY BURNING LIGHT
 - SIGN
 - FLAGGER WITH TRAFFIC CONTROL SIGN, SEE NOTE 1
 - ▨ WORK AREA
 - - - TEMPORARY CONCRETE BARRIER (F SHAPE DESIGN)
 - IMPACT ATTENUATORS, TEMPORARY (FULLY REDIRECTIVE, NARROW), TEST LEVEL 3

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USER NAME =	
PLOT SCALE =	1"=50'
PLOT DATE =	12-05-16

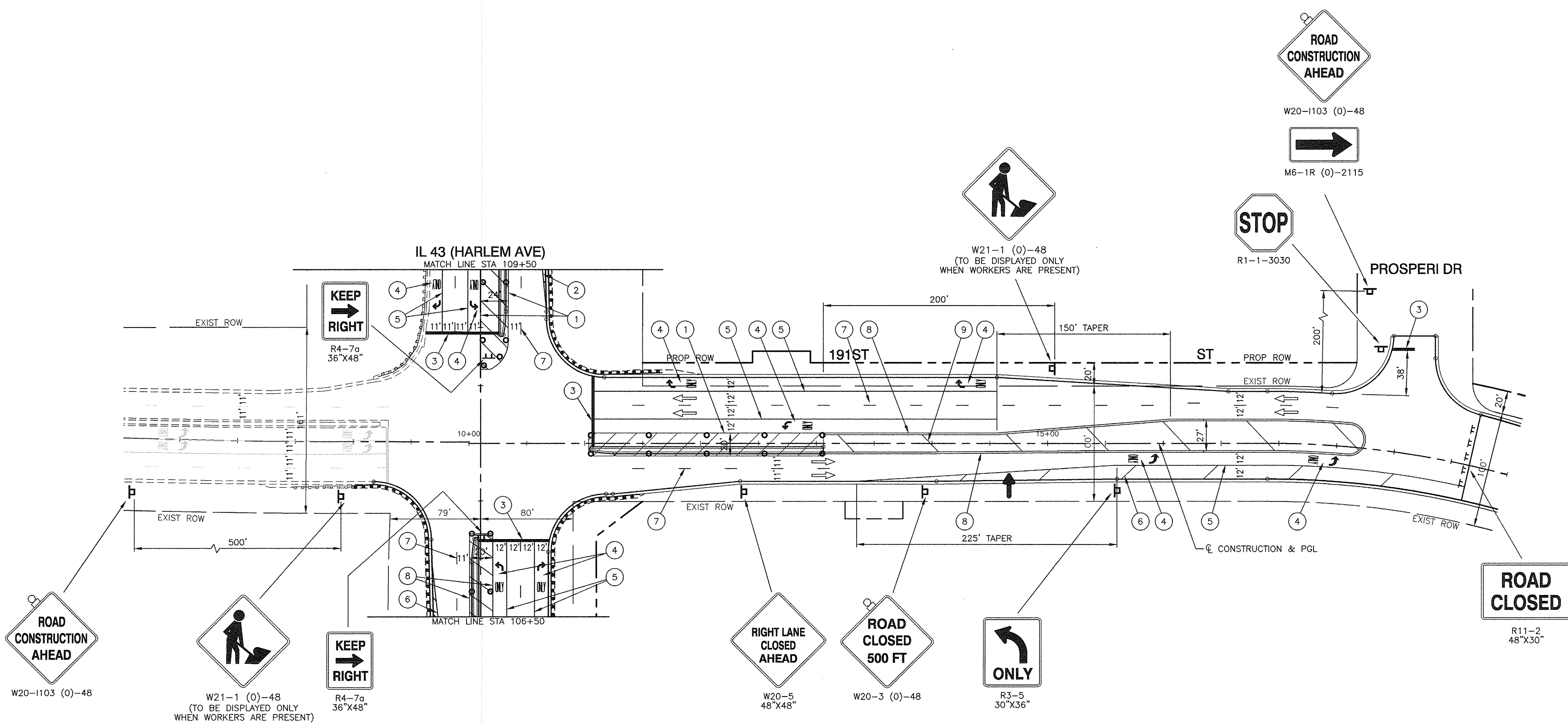
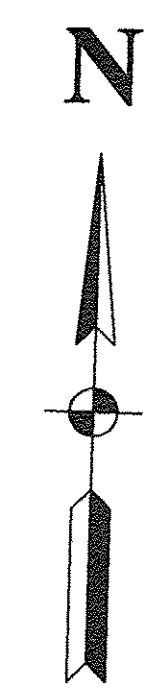
DESIGNED -	WPD	REVISED -	
CHECKED -	WPD	REVISED -	
DRAWN -	ACAD	REVISED -	
CHECKED -	ACAD	REVISED -	

**STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION**

**191ST STREET IMPROVEMENTS
SUGGESTED CONSTRUCTION STAGING
IL 43 (HARLEM AVENUE) - STAGE 1**

F.A.U. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
3754	01-00098-00-RS	COOK	108	21
CONTRACT NO. 61A03				
FED. ROAD DIST. NO.	ILLINOIS	FED. AID PROJECT		
1				

SCALE: 1"=50' SHEET NO. 21 OF 108 SHEETS STA. TO STA.



LEGEND

- ① 4" YELLOW EDGE LINE - TEMPORARY PAVEMENT MARKINGS
 - ② 4" WHITE EDGE LINE - TEMPORARY PAVEMENT MARKINGS
 - ③ 24" WHITE STOP BAR - TEMPORARY PAVEMENT MARKINGS
 - ④ LETTERS & SYMBOLS - TEMPORARY PAVEMENT MARKINGS
 - ⑤ 6" WHITE LANE LINE - TEMPORARY PAVEMENT MARKINGS
 - ⑥ 12" WHITE DIAGONAL (75' C/C) - TEMPORARY PAVEMENT MARKINGS
 - ⑦ 4" WHITE SKIP DASH (10' LINE-30' SPACE) - TEMPORARY PAVEMENT MARKINGS
 - ⑧ 4" DOUBLE YELLOW MEDIAN OUTLINE - TEMPORARY PAVEMENT MARKINGS
 - ⑨ 12" YELLOW DIAGONAL - TEMPORARY PAVEMENT MARKINGS
 - ⑩ 4" WHITE SKIP DASH (2' LINE-6' SPACE) - TEMPORARY PAVEMENT MARKINGS
- TYPE II BARRICADES OR DRUM WITH BI-DIRECTIONAL STEADY BURNING LIGHT ON TLW SECTIONS AND MONO-DIRECTIONAL STEADY BURN LIGHT ON ONE WAY OR MULTI LANE SECTIONS PLACED AT 50' CENTERS IN TANGENTS AND 20' CENTERS IN TAPERS AND CURVES
 - ⊥ TYPE III BARRICADE WITH STEADY BURNING LIGHT
 - SIGN
 - FLAGGER WITH TRAFFIC CONTROL SIGN, SEE NOTE 1
 - ▨ WORK AREA
 - ➔ ARROW BOARD

NOTE:
1. POSITION OF FLAGGER SHALL BE 100' MINIMUM FROM WIDENING OPERATION.

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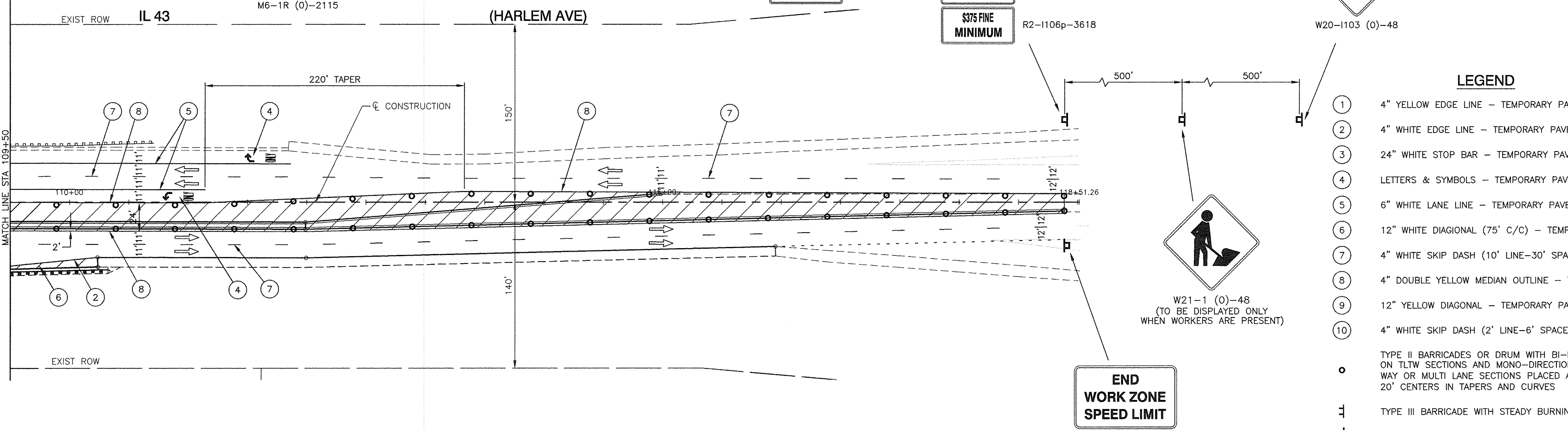
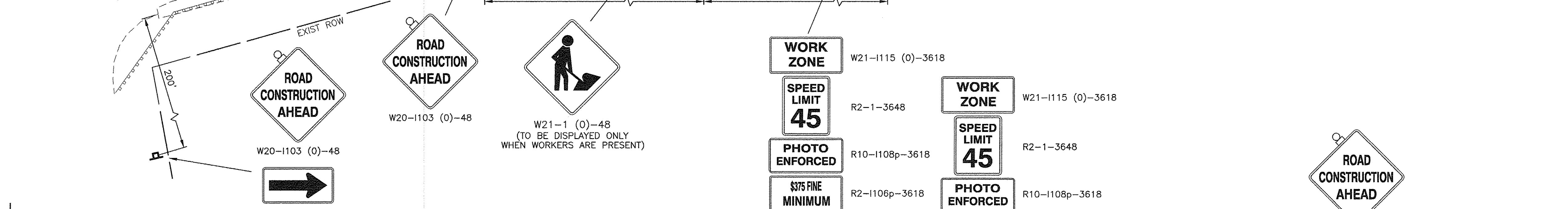
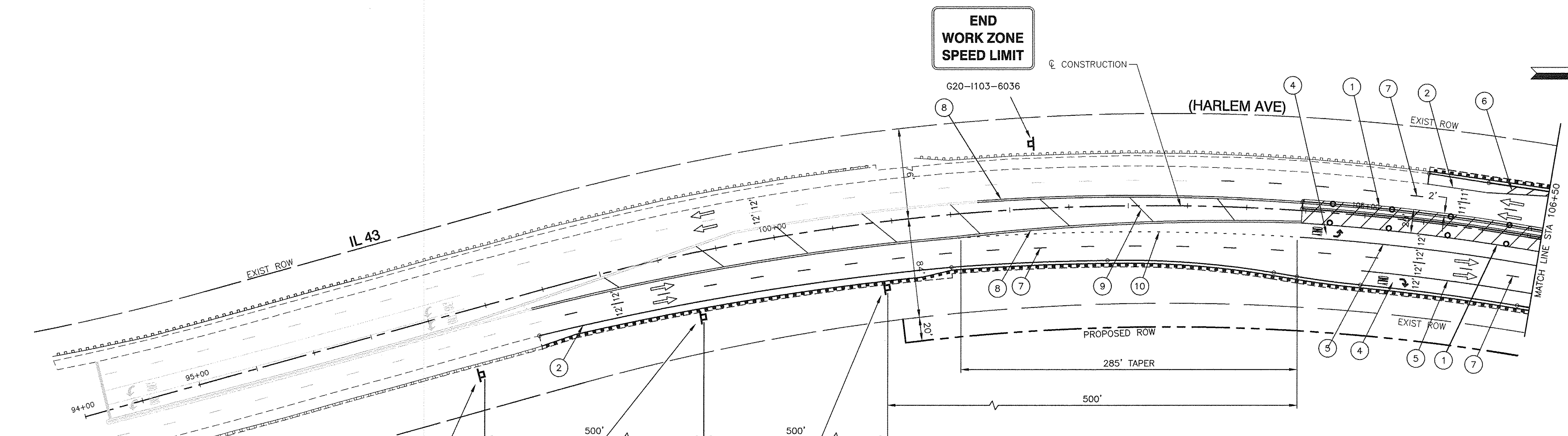
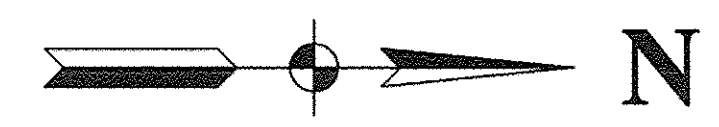
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PLOT SCALE = 1"=50'	DRAWN - ACAD	REVISED -
PLOT DATE = 12-05-16	CHECKED - ACAD	REVISED -

**STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION**

**191ST STREET IMPROVEMENTS
SUGGESTED CONSTRUCTION STAGING
191ST STREET - STAGE 2**

SCALE: 1"=50' SHEET NO. 22 OF 108 SHEETS STA. TO STA.

F.A.U. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
3754	01-00098-00-RS	COOK	108	22
CONTRACT NO. 61A03				
FED. ROAD DIST. NO. 1 ILLINOIS FED. AID PROJECT				



- LEGEND**
- ① 4" YELLOW EDGE LINE - TEMPORARY PAVEMENT MARKINGS
 - ② 4" WHITE EDGE LINE - TEMPORARY PAVEMENT MARKINGS
 - ③ 24" WHITE STOP BAR - TEMPORARY PAVEMENT MARKINGS
 - ④ LETTERS & SYMBOLS - TEMPORARY PAVEMENT MARKINGS
 - ⑤ 6" WHITE LANE LINE - TEMPORARY PAVEMENT MARKINGS
 - ⑥ 12" WHITE DIAGONAL (75' C/C) - TEMPORARY PAVEMENT MARKINGS
 - ⑦ 4" WHITE SKIP DASH (10' LINE-30' SPACE) - TEMPORARY PAVEMENT MARKINGS
 - ⑧ 4" DOUBLE YELLOW MEDIAN OUTLINE - TEMPORARY PAVEMENT MARKINGS
 - ⑨ 12" YELLOW DIAGONAL - TEMPORARY PAVEMENT MARKINGS
 - ⑩ 4" WHITE SKIP DASH (2' LINE-6' SPACE) - TEMPORARY PAVEMENT MARKINGS
 - TYPE II BARRICADES OR DRUM WITH BI-DIRECTIONAL STEADY BURNING LIGHT ON TLTW SECTIONS AND MONO-DIRECTIONAL STEADY BURN LIGHT ON ONE WAY OR MULTI LANE SECTIONS PLACED AT 50' CENTERS IN TANGENTS AND 20' CENTERS IN TAPERS AND CURVES
 - ⊥ TYPE III BARRICADE WITH STEADY BURNING LIGHT
 - ⊞ SIGN
 - FLAGGER WITH TRAFFIC CONTROL SIGN, SEE NOTE 1
 - ▨ WORK AREA
 - ➔ ARROW BOARD

NOTE:
 1. POSITION OF FLAGGER SHALL BE 100' MINIMUM FROM WIDENING OPERATION.

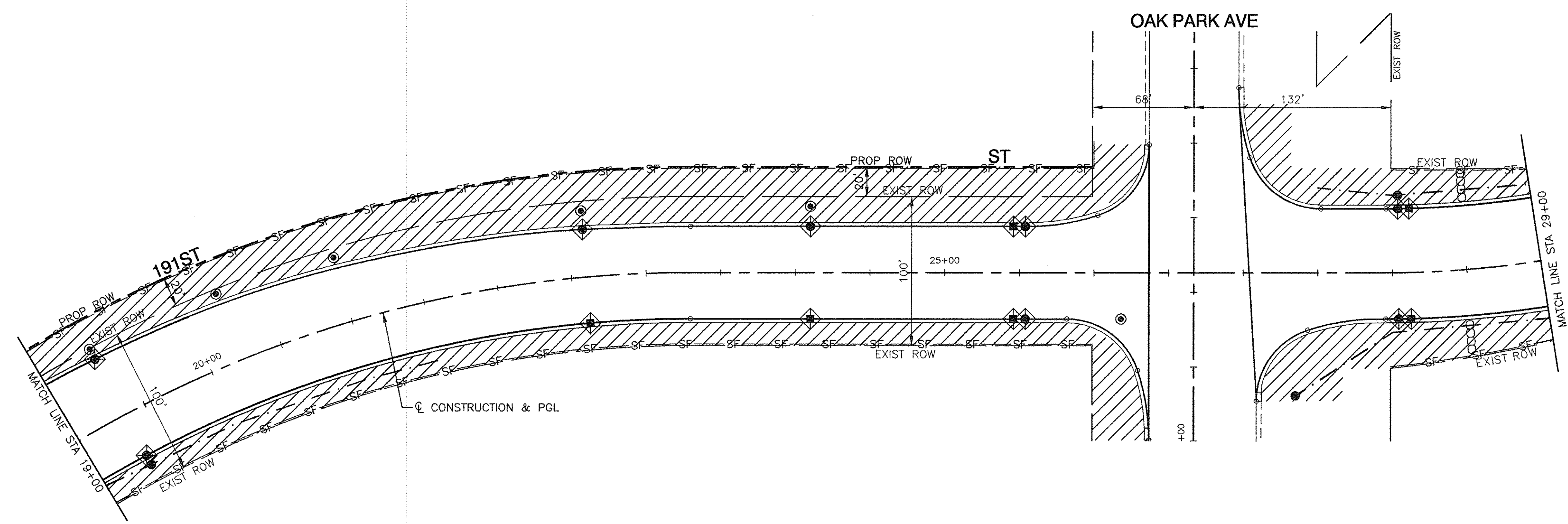
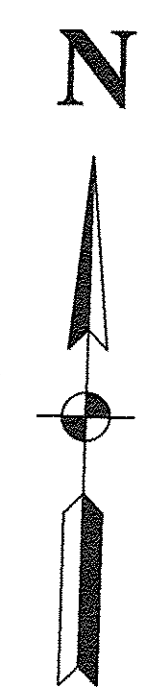
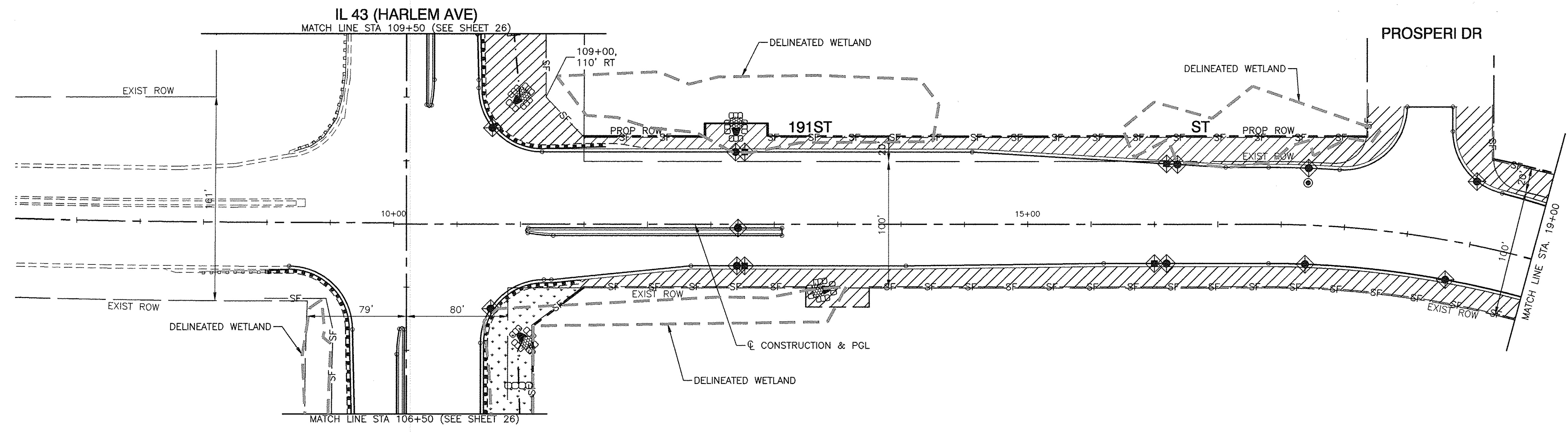
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 PLOT DATE = 12-05-16

DESIGNED -- WPD	REVISED --
CHECKED -- WPD	REVISED --
DRAWN -- ACAD	REVISED --
CHECKED -- ACAD	REVISED --

STATE OF ILLINOIS
 DEPARTMENT OF TRANSPORTATION

191ST STREET IMPROVEMENTS
 SUGGESTED CONSTRUCTION STAGING
 IL 43 (HARLEM AVENUE) - STAGE 2
 SCALE: 1"=50' SHEET NO. 23 OF 108 SHEETS STA. TO STA.

F.A.U. RTE. 3754	SECTION 01-00098-00-RS	COUNTY COOK	TOTAL SHEETS 108	SHEET NO. 23
FED. ROAD DIST. NO. 1 ILLINOIS			CONTRACT NO. 61A03	
FED. AID PROJECT				



KEY	ITEM NAME
— SF —	PERIMETER EROSION BARRIER TO BE PLACED 1' FROM R.O.W. (UNLESS OTHERWISE SHOWN)
◆	INLET FILTER
□	INLET AND PIPE PROTECTION
////	SEEDING CLASS 2A WITH EXCELSIOR BLANKET
.....	SEEDING CLASS 4 WITH EXCELSIOR BLANKET
○○○○	TEMPORARY DITCH CHECKS
⊗	RIP RAP STONE RIP RAP CL. A, GRADATION RR4 STONE RIP RAP CL. A, GRADATION RR1 FILTER FABRIC

PLAN	REVISIONS	DATE
NO.	BY	
	CHECKED	
	DATE	

PROFILE	REVISIONS	DATE
NO.	BY	
	CHECKED	
	DATE	

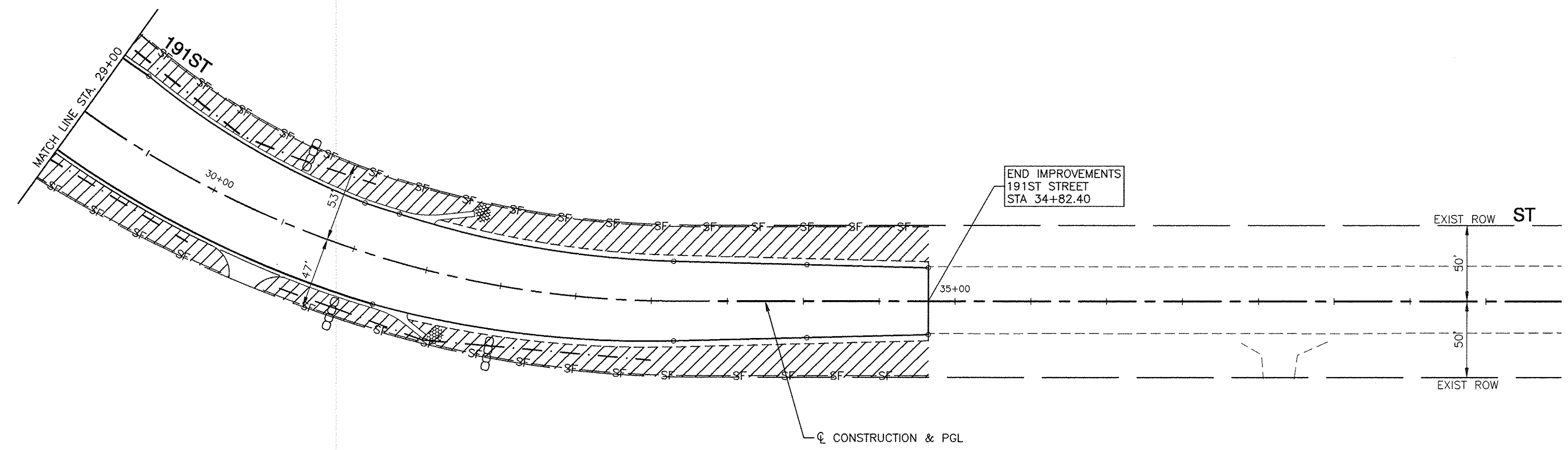
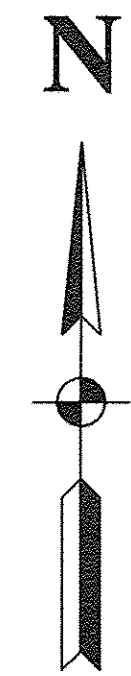
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 PLOT DATE = 12-05-16

DESIGNED — WPD	REVISOR —
CHECKED — WPD	REVISION —
DRAWN — ACAD	REVISION —
CHECKED — ACAD	REVISION —

STATE OF ILLINOIS
 DEPARTMENT OF TRANSPORTATION

191ST STREET IMPROVEMENTS
 EROSION CONTROL PLANS
 191ST STREET - BEGIN IMPROVEMENTS TO STA 29+00
 SCALE: 1"=50' SHEET NO. 24 OF 108 SHEETS STA. TO STA.

F.A.U. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
3754	01-00098-00-RS	COOK	108	24
CONTRACT NO. 61A03				
FED. ROAD DIST. NO. 1 ILLINOIS FED. AID PROJECT				



PLAN	REVISED	DATE
NO.	BY	
NOTE BOOK	ALIGNED	CHECKED
	PLANNED	CHECKED
	FILED	CHECKED
	JOB FILE NAME	

PROFILE	REVISED	DATE
NO.	BY	
NOTE BOOK	GRADES CHECKED	
	E.M. NOTED	

KEY	ITEM NAME
— SF —	PERIMETER EROSION BARRIER TO BE PLACED 1' FROM R.O.W. (UNLESS OTHERWISE SHOWN)
	INLET FILTER
	INLET AND PIPE PROTECTION
	SEEDING CLASS 2A WITH EXCELSIOR BLANKET
	SEEDING CLASS 4 WITH EXCELSIOR BLANKET
	TEMPORARY DITCH CHECKS
	RIP RAP STONE RIP RAP CL. A, GRADATION RR4 STONE RIP RAP CL. A, GRADATION RR1 FILTER FABRIC

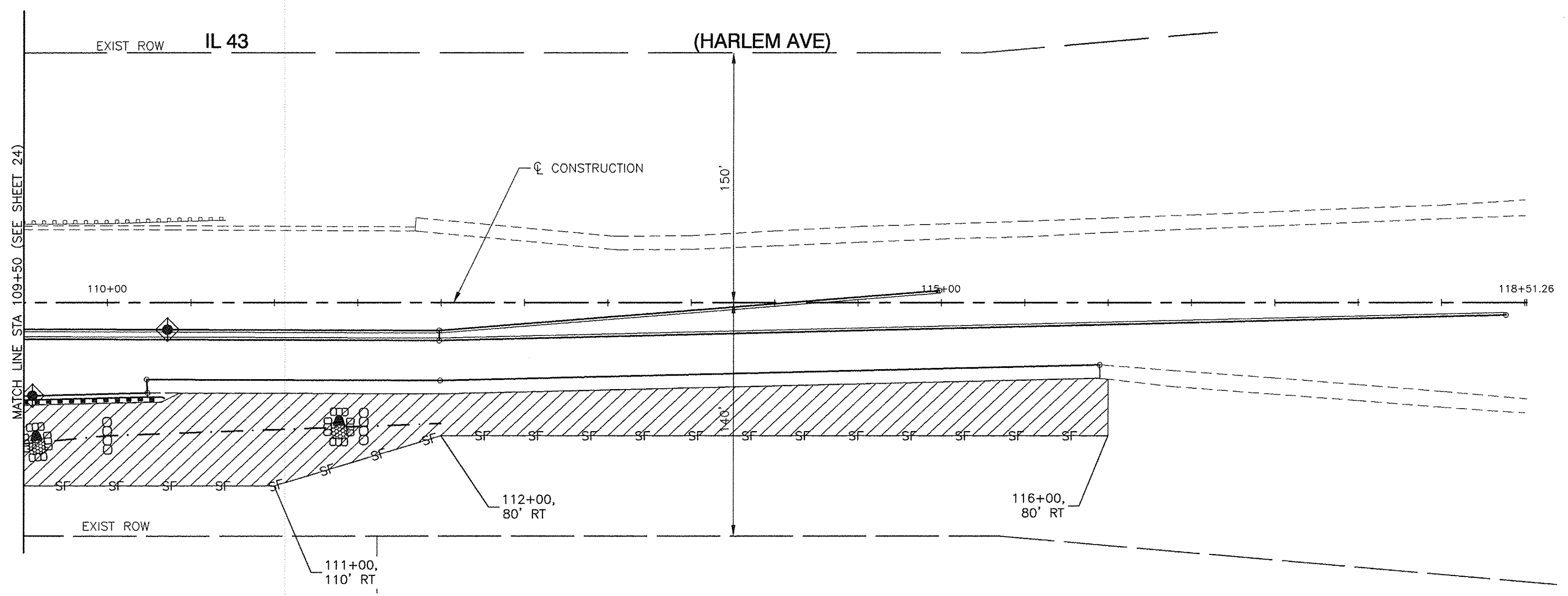
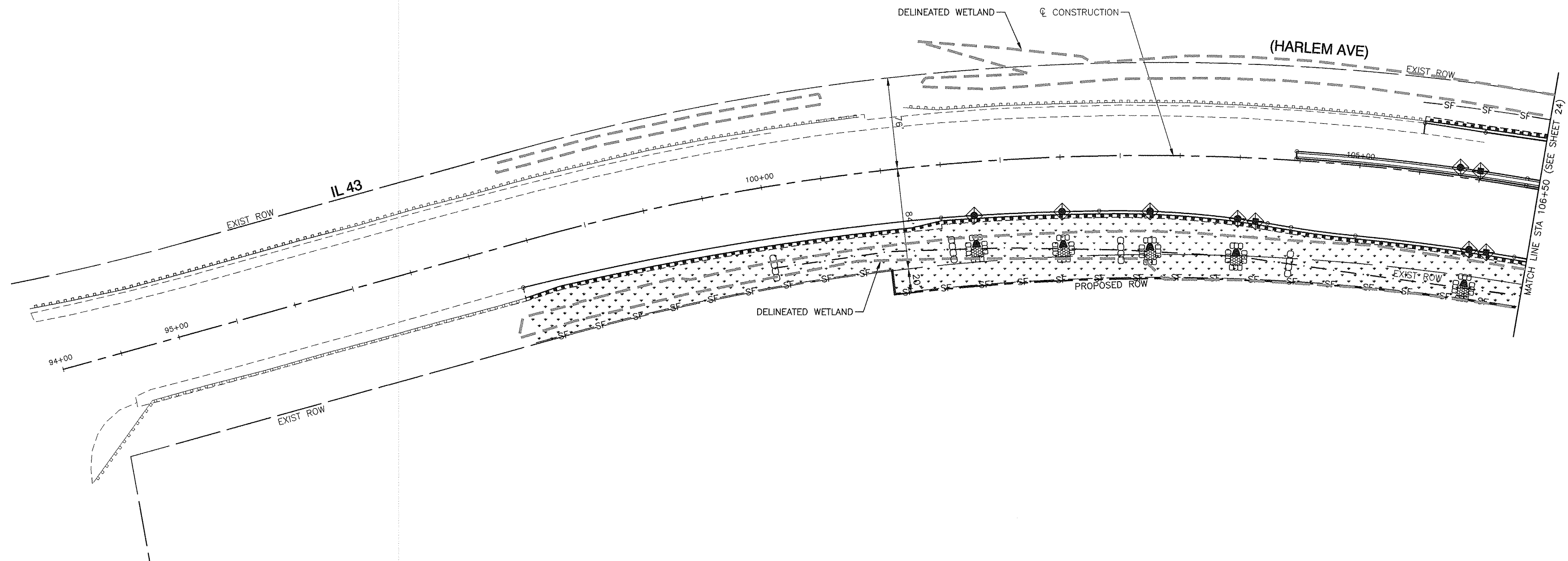
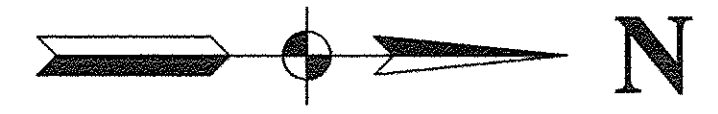
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		CHECKED — WPD	REVISED —
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	PLOT DATE = 12-05-16	CHECKED — ACAD	REVISED —

**STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION**

**191ST STREET IMPROVEMENTS
EROSION CONTROL PLANS
191ST STREET - STA 29+00 TO STA 34+82.40**

SCALE: 1"=50' SHEET NO. 25 OF 108 SHEETS STA. TO STA.

F.A.U. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
3754	01-00098-00-RS	COOK	108	25
CONTRACT NO. 61A03				
FED. ROAD DIST. NO. 1 ILLINOIS FED. AID PROJECT				



KEY	ITEM NAME
— SF —	PERIMETER EROSION BARRIER TO BE PLACED 1' FROM R.O.W. (UNLESS OTHERWISE SHOWN)
◆	INLET FILTER
⊠	INLET AND PIPE PROTECTION
▨	SEEDING CLASS 2A WITH EXCELSIOR BLANKET
⋯	SEEDING CLASS 4 WITH EXCELSIOR BLANKET
○○○	TEMPORARY DITCH CHECKS
⊗	RIP RAP STONE RIP RAP CL. A, GRADATION RR4 STONE RIP RAP CL. A, GRADATION RR1 FILTER FABRIC

PLAN	SURVEYED	DATE
	ALIGNED	
	CHECKED	
	RT. OF WAY	
	CHECKED	
	NO. _____	
	FILE NAME	

PROFILE	SURVEYED	DATE
	GRADES	
	CHECKED	
	B.M. NOTED	
	NO. _____	

FILE NAME = 04252-LNSC-01

USER NAME =	DESIGNED — WPD	REVISED —
	CHECKED — WPD	REVISED —
PLOT SCALE = 1"=50'	DRAWN — ACAD	REVISED —
PLOT DATE = 12-05-16	CHECKED — ACAD	REVISED —

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

191ST STREET IMPROVEMENTS
EROSION CONTROL PLANS
IL 43 (HARLEM AVENUE)

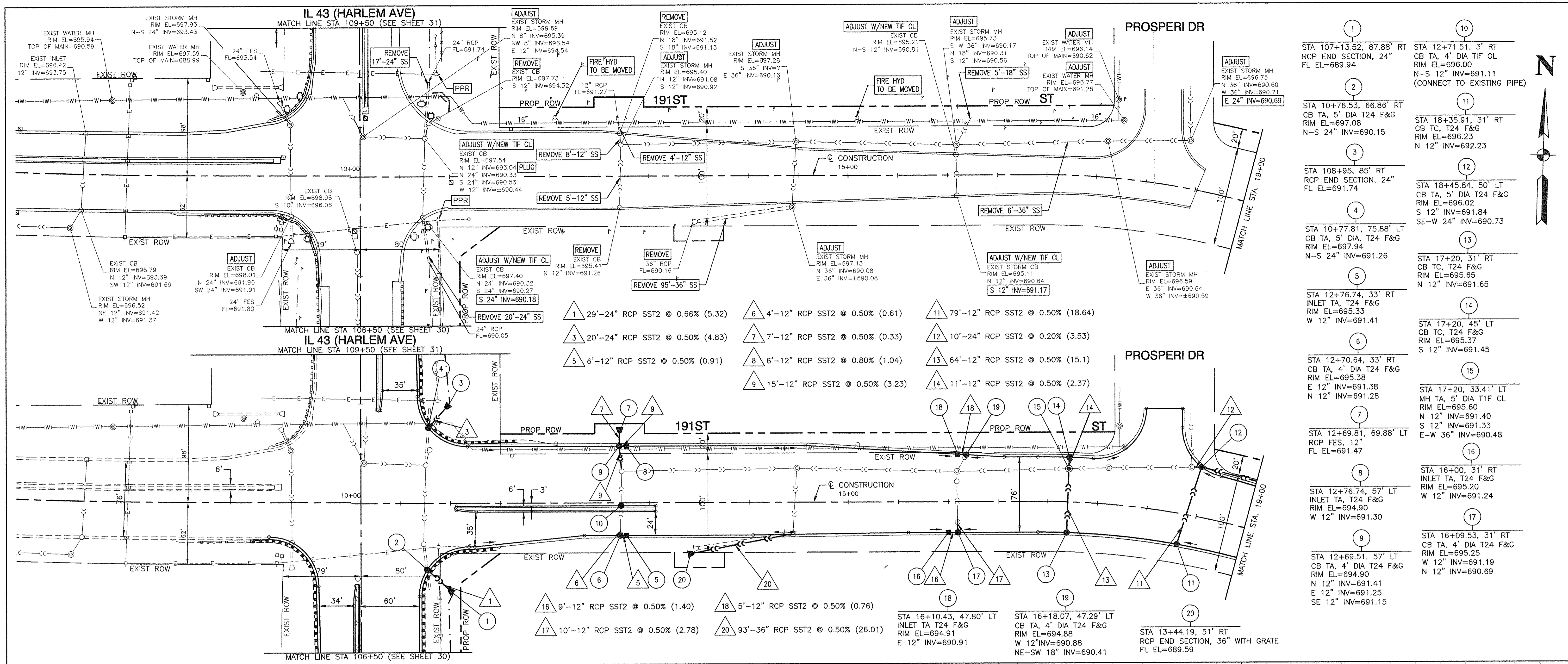
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F.A.U. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
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CONTRACT NO. 61A03				
FED. ROAD DIST. NO. 1 ILLINOIS FED. AID PROJECT				

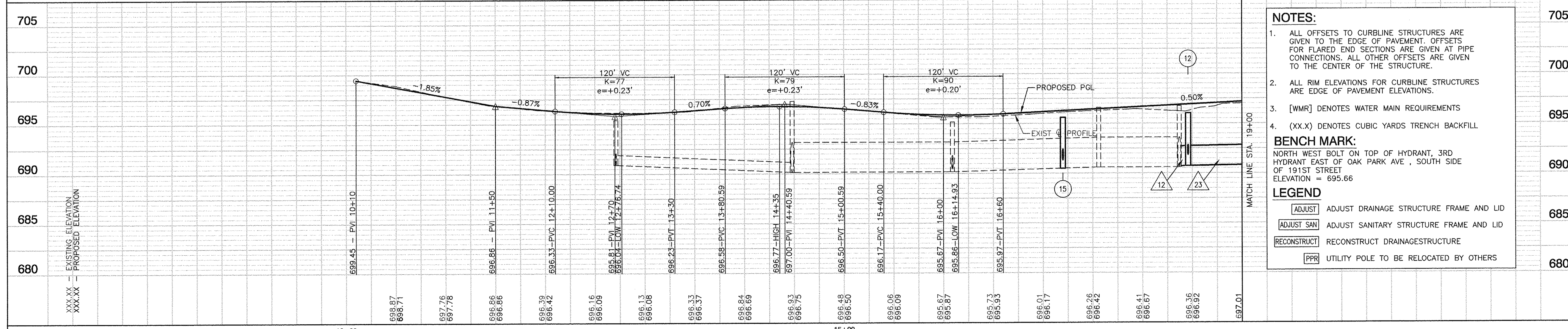
DATE	BY

DATE	BY

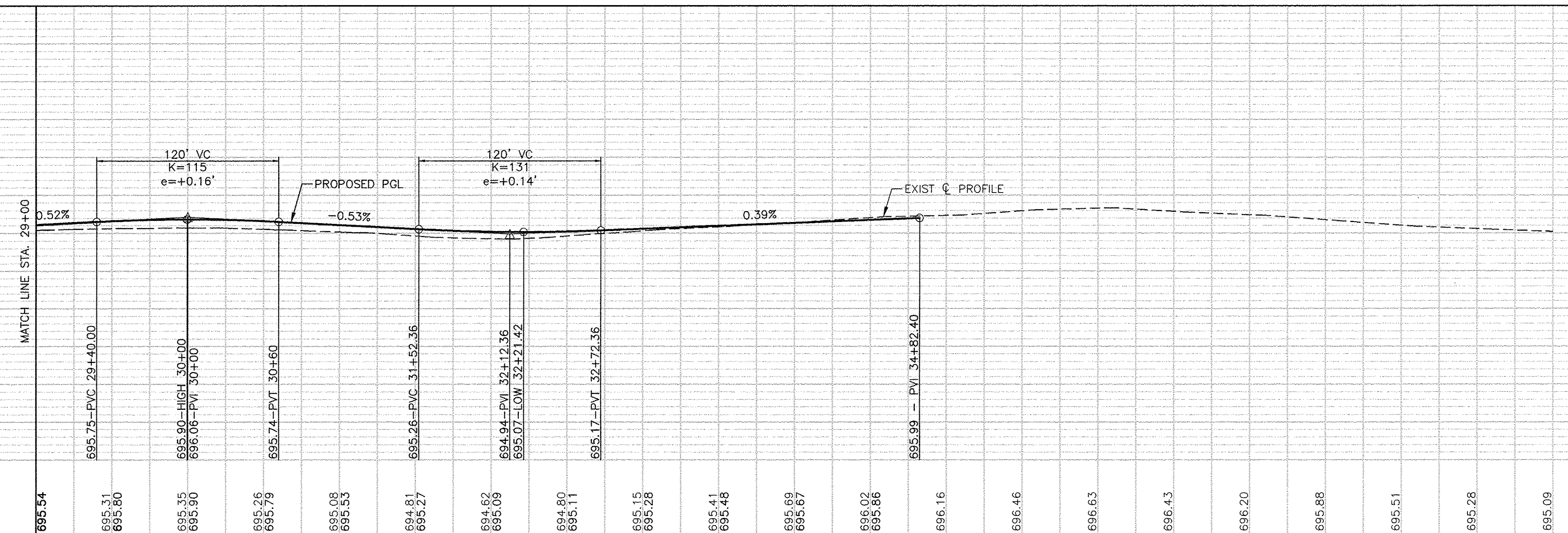
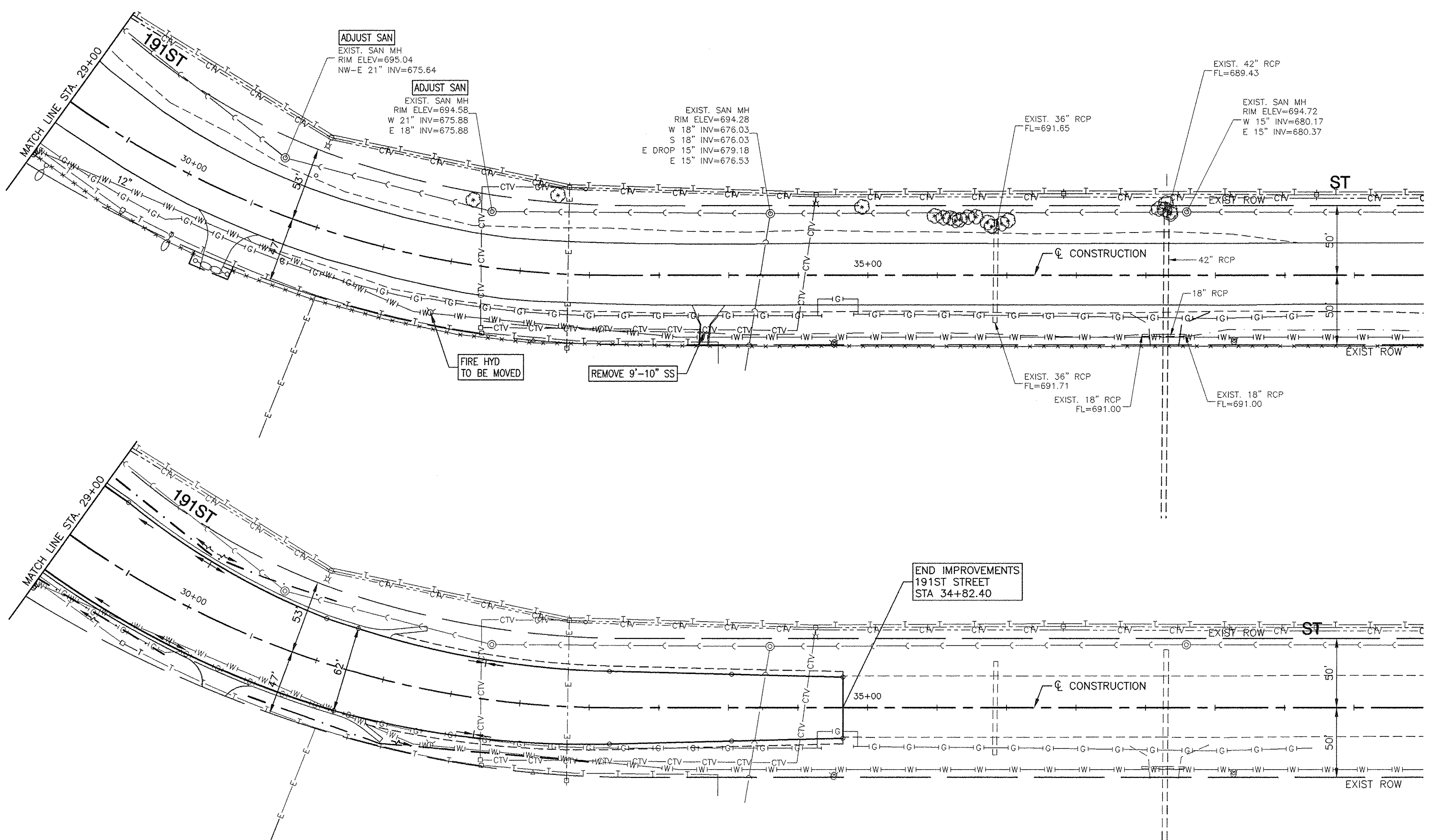
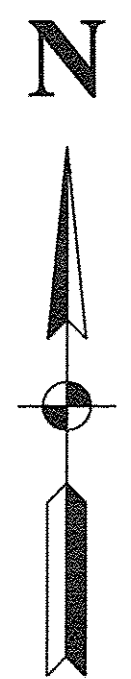
DATE	BY



1	STA 107+13.52, 87.88' RT RCP END SECTION, 24\"/>
2	STA 10+76.53, 66.86' RT CB TA, 5' DIA T24 F&G RIM EL=697.08 N-S 24\"/>
3	STA 108+95, 85' RT RCP END SECTION, 24\"/>
4	STA 10+77.81, 75.88' LT CB TA, 5' DIA, T24 F&G RIM EL=697.94 N-S 24\"/>
5	STA 12+76.74, 33' RT INLET TA, T24 F&G RIM EL=695.33 W 12\"/>
6	STA 12+70.64, 33' RT CB TA, 4' DIA T24 F&G RIM EL=695.38 E 12\"/>
7	STA 12+69.81, 69.88' LT RCP FES, 12\"/>
8	STA 12+76.74, 57' LT INLET TA, T24 F&G RIM EL=694.90 W 12\"/>
9	STA 12+69.51, 57' LT CB TA, 4' DIA T24 F&G RIM EL=694.90 N 12\"/>
10	STA 12+71.51, 3' RT CB TA, 4' DIA TIF OL RIM EL=696.00 N-S 12\"/>
11	STA 18+35.91, 31' RT CB TC, T24 F&G RIM EL=696.23 N 12\"/>
12	STA 18+45.84, 50' LT CB TA, 5' DIA T24 F&G RIM EL=696.02 S 12\"/>
13	STA 17+20, 31' RT CB TC, T24 F&G RIM EL=695.65 N 12\"/>
14	STA 17+20, 45' LT CB TC, T24 F&G RIM EL=695.37 S 12\"/>
15	STA 17+20, 33.41' LT MH TA, 5' DIA T1F CL RIM EL=695.60 N 12\"/>
16	STA 16+00, 31' RT INLET TA, T24 F&G RIM EL=695.20 W 12\"/>
17	STA 16+09.53, 31' RT CB TA, 4' DIA T24 F&G RIM EL=695.25 W 12\"/>
18	STA 16+10.43, 47.80' LT INLET TA T24 F&G RIM EL=694.91 E 12\"/>
19	STA 16+18.07, 47.29' LT CB TA, 4' DIA T24 F&G RIM EL=694.88 W 12\"/>
20	STA 13+44.19, 51' RT RCP END SECTION, 36\"/>



- NOTES:**
- ALL OFFSETS TO CURBLINE STRUCTURES ARE GIVEN TO THE EDGE OF PAVEMENT. OFFSETS FOR FLARED END SECTIONS ARE GIVEN AT PIPE CONNECTIONS. ALL OTHER OFFSETS ARE GIVEN TO THE CENTER OF THE STRUCTURE.
 - ALL RIM ELEVATIONS FOR CURBLINE STRUCTURES ARE EDGE OF PAVEMENT ELEVATIONS.
 - [WMR] DENOTES WATER MAIN REQUIREMENTS
 - (XX.X) DENOTES CUBIC YARDS TRENCH BACKFILL
- BENCH MARK:**
NORTH WEST BOLT ON TOP OF HYDRANT, 3RD HYDRANT EAST OF OAK PARK AVE, SOUTH SIDE OF 191ST STREET
ELEVATION = 695.66
- LEGEND**
- ADJUST ADJUST DRAINAGE STRUCTURE FRAME AND LID
 - ADJUST SAN ADJUST SANITARY STRUCTURE FRAME AND LID
 - RECONSTRUCT RECONSTRUCT DRAINAGE STRUCTURE
 - PPR UTILITY POLE TO BE RELOCATED BY OTHERS



NOTES:

- ALL OFFSETS TO CURBLINE STRUCTURES ARE GIVEN TO THE EDGE OF PAVEMENT. OFFSETS FOR FLARED END SECTIONS ARE GIVEN AT PIPE CONNECTIONS. ALL OTHER OFFSETS ARE GIVEN TO THE CENTER OF THE STRUCTURE.
- ALL RIM ELEVATIONS FOR CURBLINE STRUCTURES ARE EDGE OF PAVEMENT ELEVATIONS.
- [W.M.R.] DENOTES WATER MAIN REQUIREMENTS
- (XX.X) DENOTES CUBIC YARDS TRENCH BACKFILL

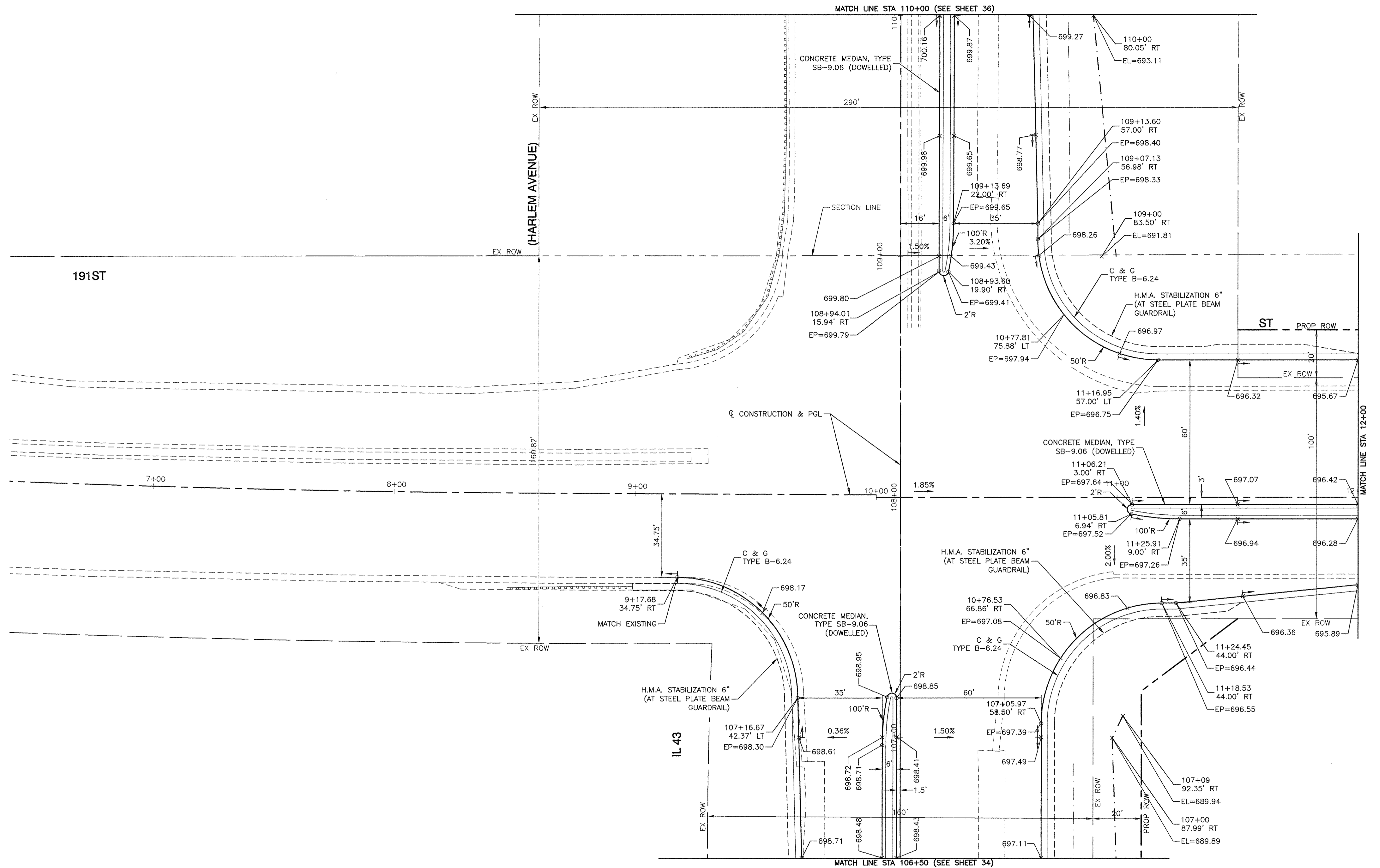
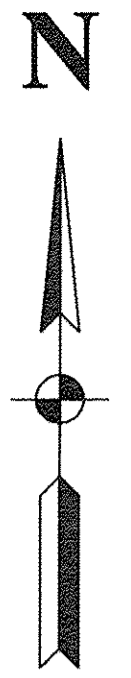
BENCH MARK:
 NORTH WEST BOLT ON TOP OF HYDRANT, 3RD HYDRANT EAST OF OAK PARK AVE, SOUTH SIDE OF 191ST STREET
 ELEVATION = 695.66

LEGEND

	ADJUST DRAINAGE STRUCTURE FRAME AND LID
	ADJUST SANITARY STRUCTURE FRAME AND LID
	RECONSTRUCT DRAINAGE STRUCTURE
	UTILITY POLE TO BE RELOCATED BY OTHERS

DATE	BY
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DATE	BY
DATE	BY



FILE NAME = 04252-PLAN-01 - P01
 USER NAME =
 PLOT SCALE =
 PLOT DATE = 12-05-16

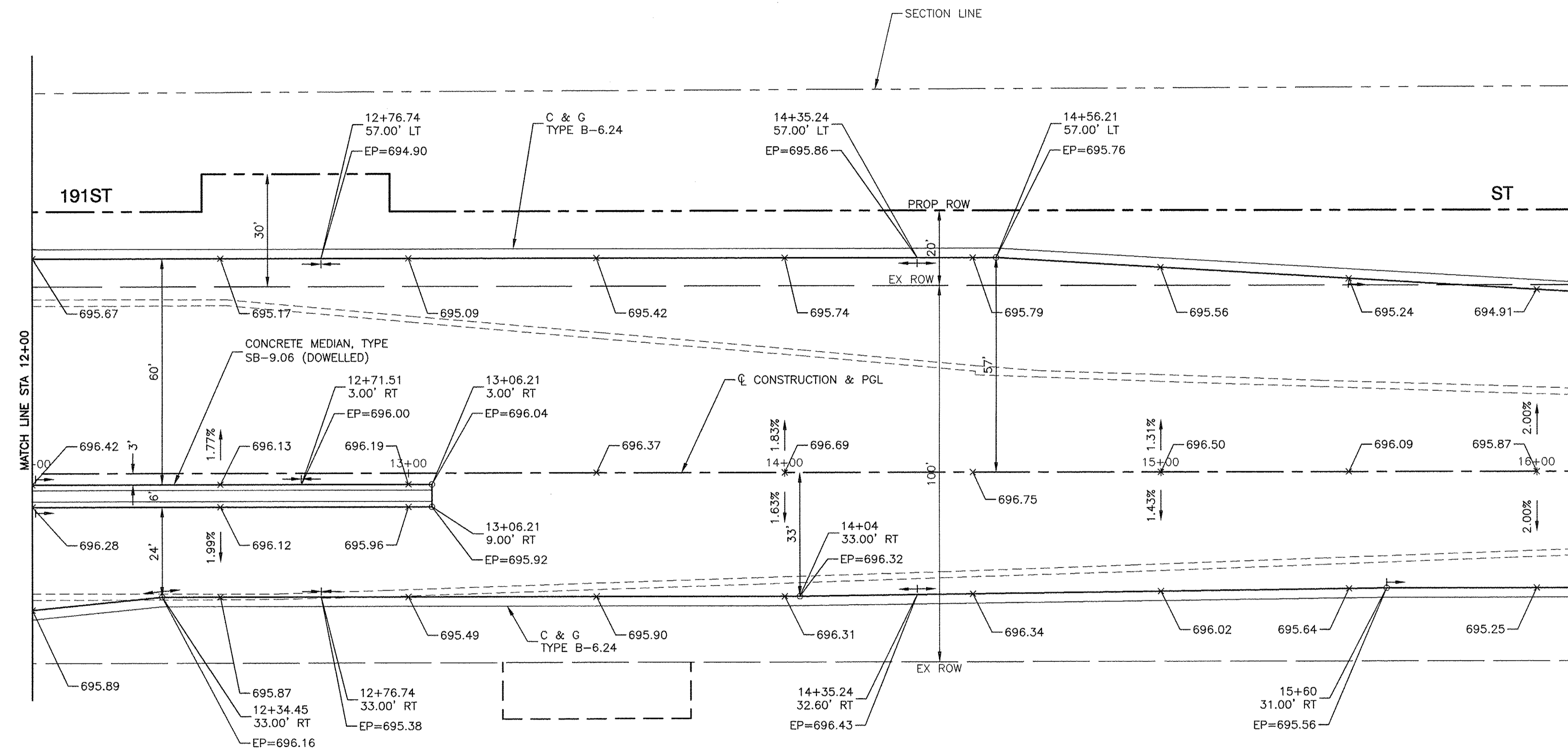
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CHECKED — WPD	REVISED —
DRAWN — AG MD	REVISED —
CHECKED — ACAD	REVISED —

STATE OF ILLINOIS
 DEPARTMENT OF TRANSPORTATION

191ST STREET IMPROVEMENTS
 INTERSECTION DETAILS
 IL 43 (HARLEM AVENUE) AND 191ST STREET
 SCALE: 1"=20'
 SHEET NO. 32 OF 108 SHEETS
 STA. TO STA.

F.A.U. RTE. 3754	SECTION 01-00098-00-RS	COUNTY COOK	TOTAL SHEETS 108	SHEET NO. 32
FED. ROAD DIST. NO. 1		ILLINOIS	FED. AID PROJECT	

CONTRACT NO. 61A03



FILE NAME = 04252-PLAN-01 - P02
 USER NAME =
 PLOT SCALE =
 PLOT DATE = 12-05-16

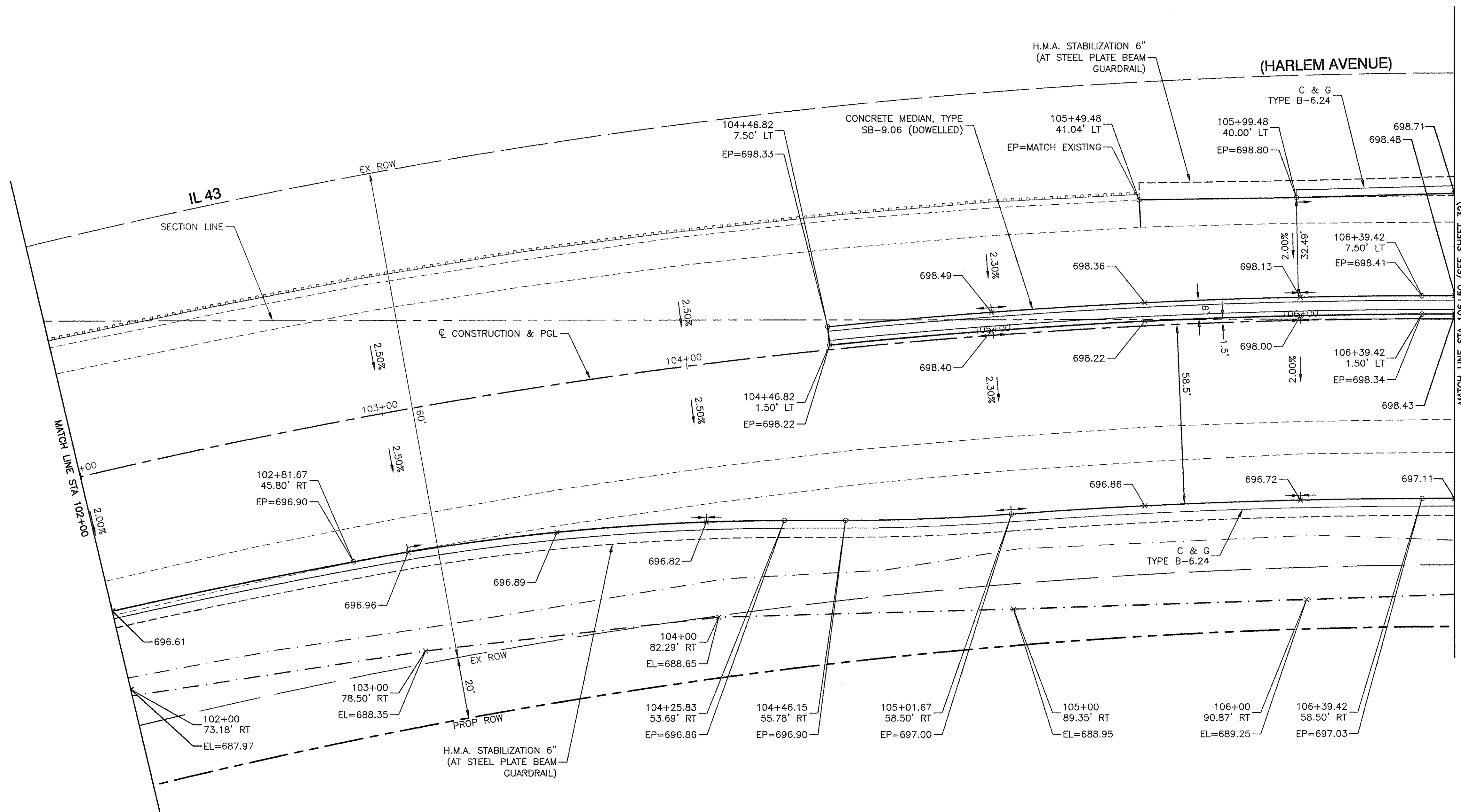
DESIGNED — WPD	REVISD —
CHECKED — WPD	REVISD —
DRAWN — ACAD	REVISD —
CHECKED — ACAD	REVISD —

STATE OF ILLINOIS
 DEPARTMENT OF TRANSPORTATION

191ST STREET IMPROVEMENTS
 INTERSECTION DETAILS
 IL 43 (HARLEM AVENUE) AND 191ST STREET
 SCALE: SHEET NO. 33 OF 108 SHEETS STA. TO STA.

F.A.U. RTE. 3754	SECTION 01-00098-00-RS	COUNTY COOK	TOTAL SHEETS 108	SHEET NO. 33
FED. ROAD DIST. NO. 1 ILLINOIS			FED. AID PROJECT	

CONTRACT NO. 61A03



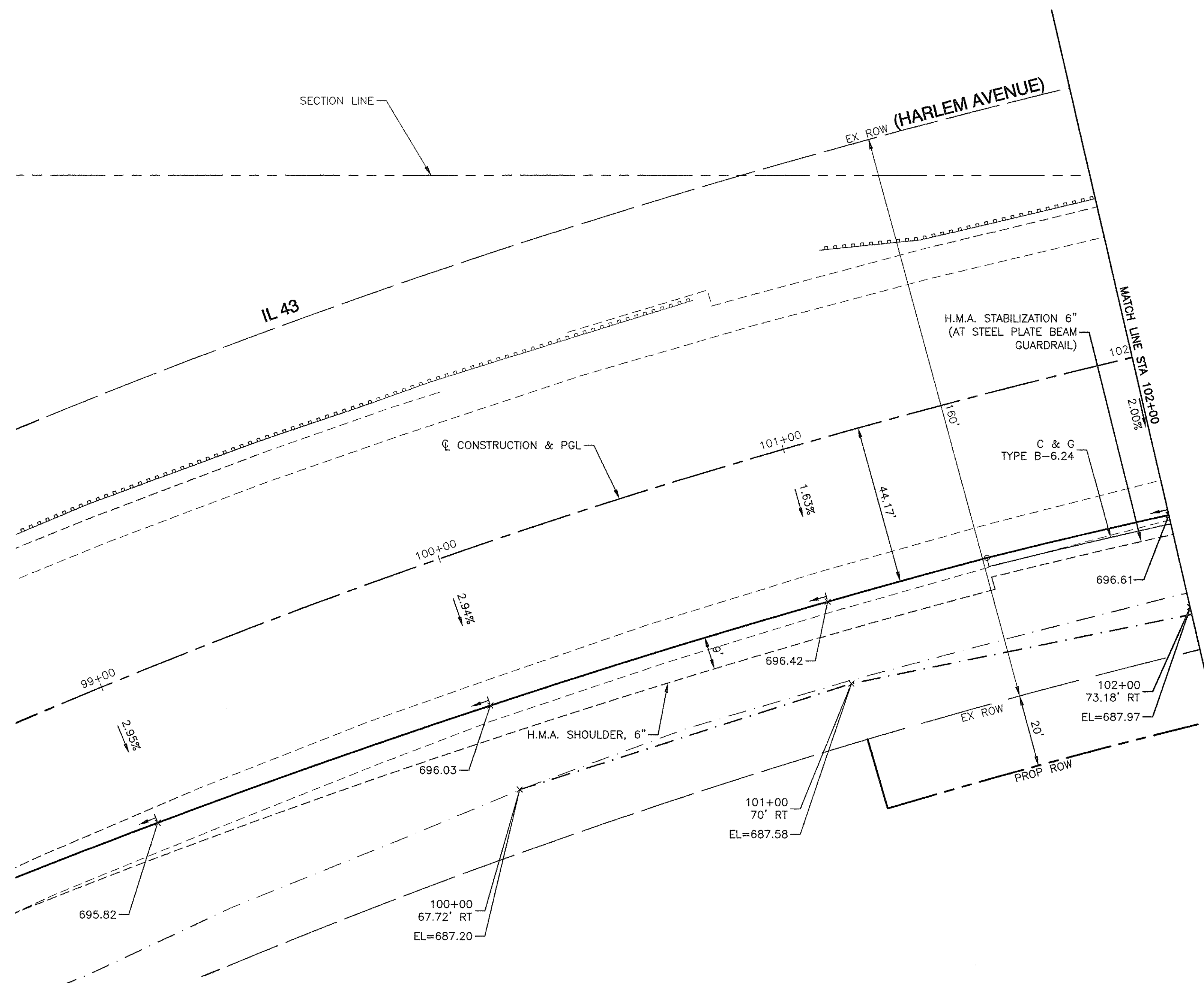
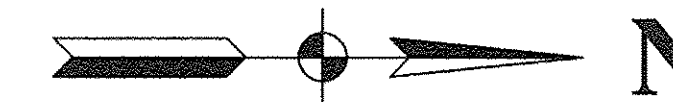
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USER NAME =	DESIGNED -- WPD	REVISD --
	CHECKED -- WPD	REVISD --
PLOT SCALE =	DRAWN -- ACAD	REVISD --
PLOT DATE = 12-05-16	CHECKED -- ACAD	REVISD --

**STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION**

191ST STREET IMPROVEMENTS INTERSECTION DETAILS IL 43 (HARLEM AVENUE) AND 191ST STREET		
SCALE:	SHEET NO. 34 OF 108 SHEETS	STA. TO STA.

F.A.U. RTE. 3754	SECTION 01-00098-00-RS	COUNTY COOK	TOTAL SHEETS 108	SHEET NO. 34
FED. ROAD DIST. NO. 1		ILLINOIS		FED. AID PROJECT
CONTRACT NO. 61A03				



FILE NAME = 04292-PLAN-01 - P04
 USER NAME =
 PLOT SCALE =
 PLOT DATE = 12-05-16

DESIGNED — WPD	REVISD —
CHECKED — WPD	REVISD —
DRAWN — ACAD	REVISD —
CHECKED — ACAD	REVISD —

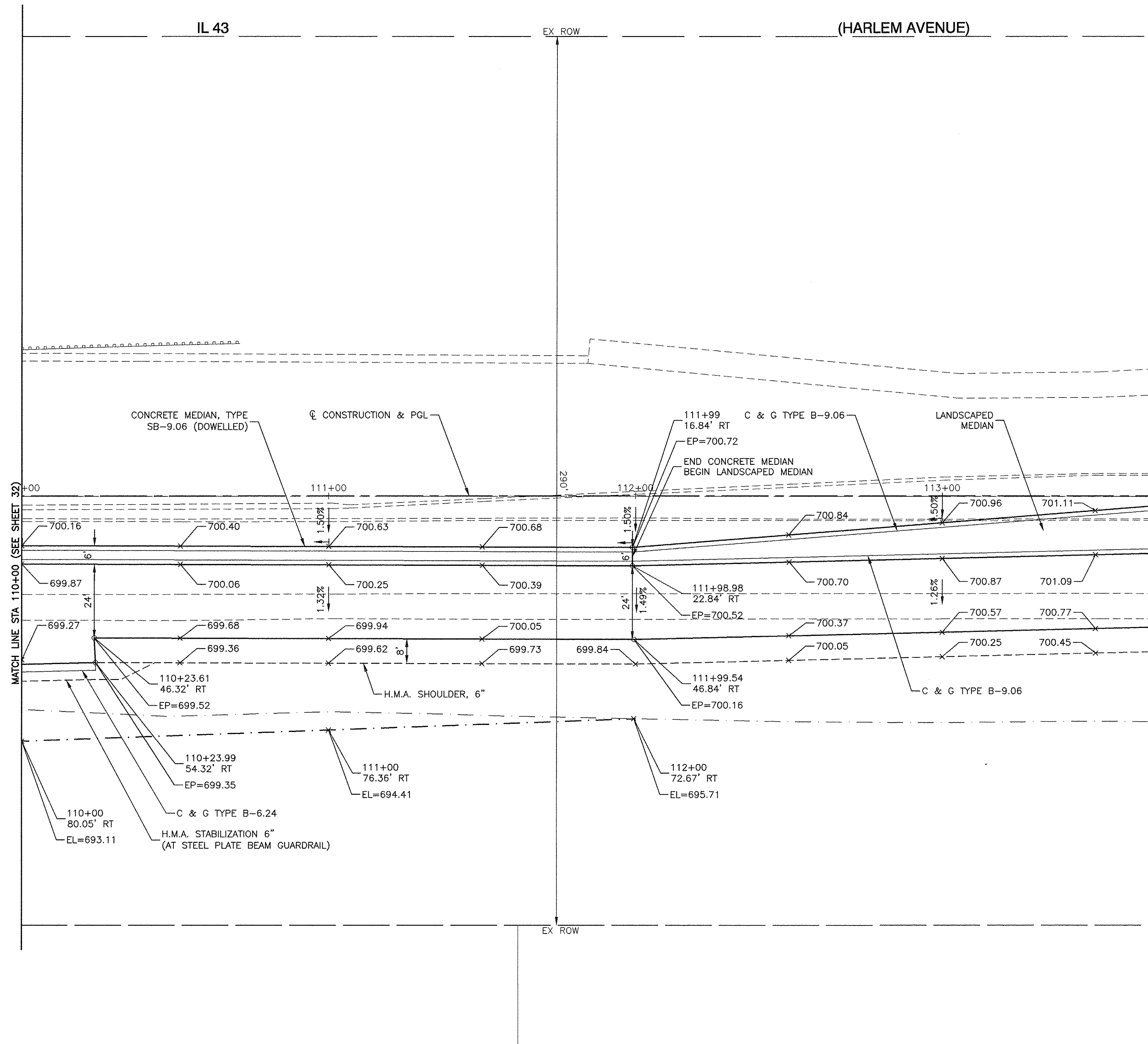
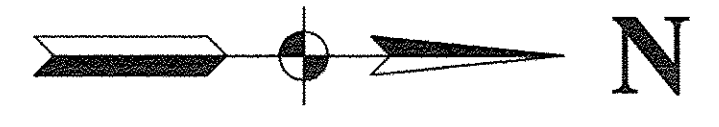
**STATE OF ILLINOIS
 DEPARTMENT OF TRANSPORTATION**

**191ST STREET IMPROVEMENTS
 INTERSECTION DETAILS
 IL 43 (HARLEM AVENUE) AND 191ST STREET**

SCALE: SHEET NO. 35 OF 108 SHEETS STA. TO STA.

F.A.U. RTE. 3754	SECTION 01-00098-00-RS	COUNTY COOK	TOTAL SHEETS 108	SHEET NO. 35
FED. ROAD DIST. NO. 1 ILLINOIS			FED. AID PROJECT	

CONTRACT NO. 61A03



FILE NAME = 04252-PLAN-01 - P05

USER NAME =	DESIGNED -- WPD	REVISED --
	CHECKED -- WPD	REVISED --
PLOT SCALE =	DRAWN -- ACAD	REVISED --
PLOT DATE = 12-05-16	CHECKED -- ACAD	REVISED --

**STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION**

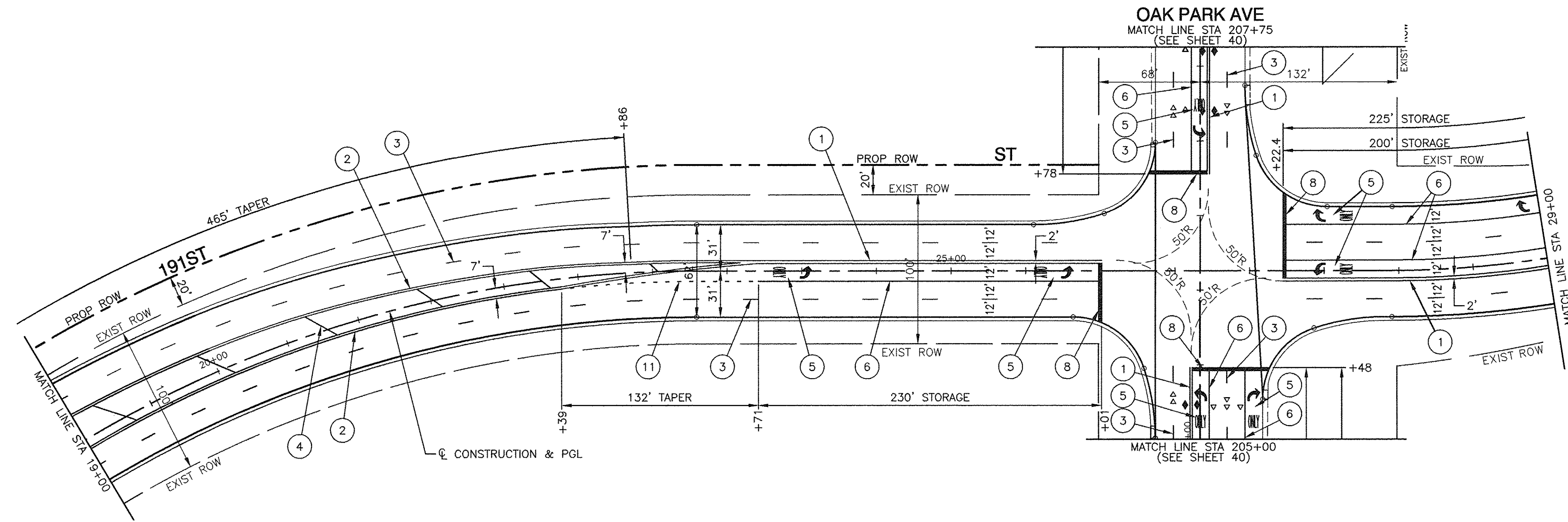
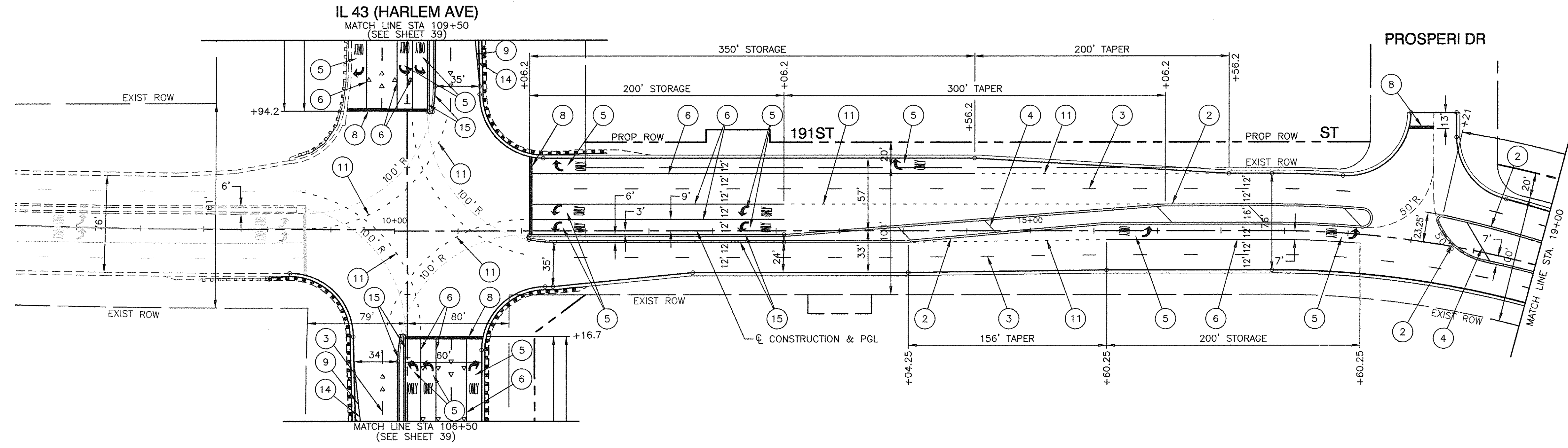
**191ST STREET IMPROVEMENTS
INTERSECTION DETAILS
IL 43 (HARLEM AVENUE) AND 191ST STREET**

SCALE: SHEET NO. 36 OF 108 SHEETS STA. TO STA.

F.A.U. RTE. 3754	SECTION 01-00098-00-RS	COUNTY COOK	TOTAL SHEETS 108	SHEET NO. 36
FED. ROAD DIST. NO. 1 ILLINOIS			CONTRACT NO. 61A03	
FED. AID PROJECT				

PLAN	DATE
BY	
DATE	
SURVEYED	
PLOTTED	
CHECKED	
BY	
DATE	
NOTE BOOK NO.	
FILE NAME	

PROFILE	DATE
BY	
DATE	
SURVEYED	
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BY	
DATE	
NOTE BOOK NO.	
FILE NAME	



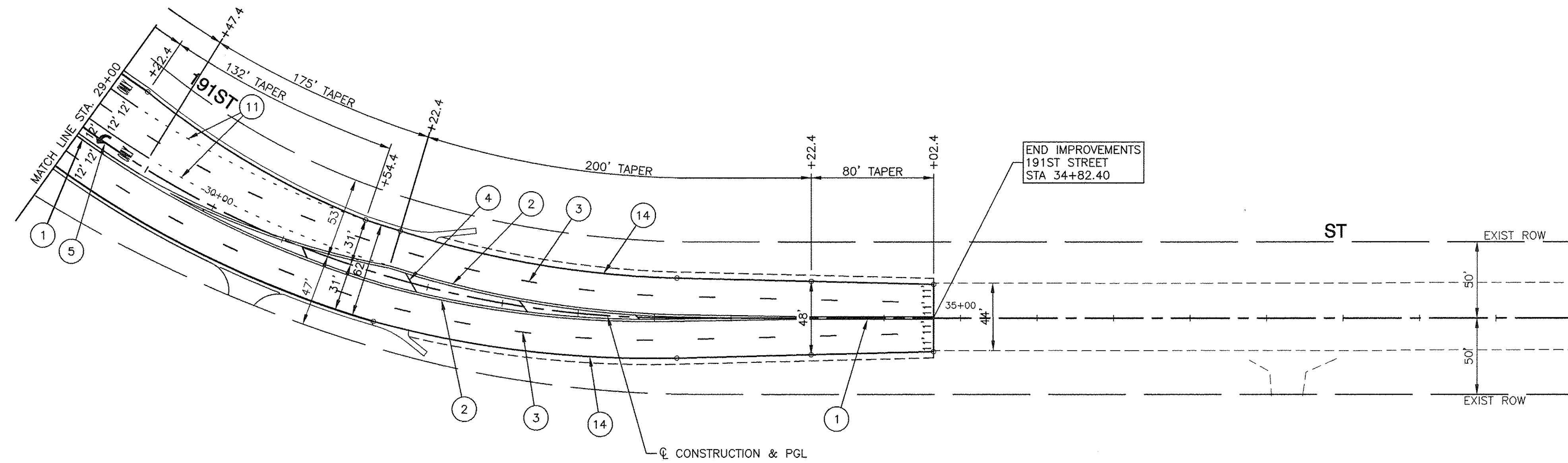
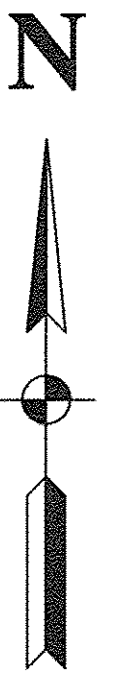
NOTES:

1. ALL PAVEMENT MARKINGS SHALL BE THERMOPLASTIC.

LEGEND

- ① 4" DOUBLE YELLOW CENTERLINE (11" C/C)
 - ② 4" DOUBLE YELLOW MEDIAN OUTLINE (11" C/C)
 - ③ 4" WHITE SKIP DASH (10' LINE, 30' SPACE)
 - ④ 12" YELLOW DIAGONAL (75' C/C - 5 MINIMUM)
 - ⑤ WHITE LETTERS & SYMBOLS - LARGE
 - ⑥ 6" WHITE LANE LINE
 - ⑦ 4" YELLOW LINES 5-1/2" C-C WITH SKIP DASH LINE (10' LINE, 30' SPACING)
 - ⑧ 24" WHITE STOP BAR
 - ⑨ 12" WHITE DIAGONAL (20' C/C)
 - ⑩ 8" WHITE EDGE LINE
 - ⑪ 6" WHITE SKIP DASH (2' LINE, 6' SPACE)
 - ⑫ 12" YELLOW DIAGONAL (20' C/C)
 - ⑬ 12" YELLOW LINE
 - ⑭ 4" WHITE EDGE LINE
 - ⑮ 4" YELLOW MEDIAN OUTLINE
- ◀ ONE-WAY CRYSTAL MARKER
40' C/C UNLESS OTHERWISE NOTED.
 - ◀ ONE-WAY AMBER MARKERS
40' C/C UNLESS OTHERWISE NOTED.
 - ◀ TWO-WAY AMBER MARKERS
40' C/C UNLESS OTHERWISE NOTED.

FILE NAME = 04252-PMKG-01	USER NAME =	DESIGNED - WPD	REVISOR -	STATE OF ILLINOIS DEPARTMENT OF TRANSPORTATION	191ST STREET IMPROVEMENTS PAVEMENT MARKING PLAN			F.A.U. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.	
	PLOT SCALE = 1"=50'	CHECKED - WPD	REVISOR -		191ST STREET - BEGIN IMPROVEMENTS TO STA 29+00			3754	01-00098-00-RS	COOK	108	37	
	PLOT DATE = 12-05-16	DRAWN - ACAD	REVISOR -		SCALE: 1"=50			SHEET NO. 37 OF 108 SHEETS		STA. TO STA.		CONTRACT NO. 61A03	
		CHECKED - ACAD	REVISOR -		FED. ROAD DIST. NO. 1			ILLINOIS		FED. AID PROJECT			



NOTES:
 1. ALL PAVEMENT MARKINGS SHALL BE THERMOPLASTIC.

LEGEND

- ① 4" DOUBLE YELLOW CENTERLINE (11" C/C)
 - ② 4" DOUBLE YELLOW MEDIAN OUTLINE (11" C/C)
 - ③ 4" WHITE SKIP DASH (10' LINE, 30' SPACE)
 - ④ 12" YELLOW DIAGONAL (75' C/C - 5 MINIMUM)
 - ⑤ WHITE LETTERS & SYMBOLS - LARGE
 - ⑥ 6" WHITE LANE LINE
 - ⑦ 4" YELLOW LINES 5-1/2" C-C WITH SKIP DASH LINE(10' LINE, 30' SPACING)
 - ⑧ 24" WHITE STOP BAR
 - ⑨ 12" WHITE DIAGONAL (20' C/C)
 - ⑩ 8" WHITE EDGE LINE
 - ⑪ 6" WHITE SKIP DASH (2' LINE, 6' SPACE)
 - ⑫ 12" YELLOW DIAGONAL (20' C/C)
 - ⑬ 12" YELLOW LINE
 - ⑭ 4" WHITE EDGE LINE
- ◀ ONE-WAY CRYSTAL MARKER
 40' C/C UNLESS OTHERWISE NOTED.
- ◀ ONE-WAY AMBER MARKERS
 40' C/C UNLESS OTHERWISE NOTED.
- ◆ TWO-WAY AMBER MARKERS
 40' C/C UNLESS OTHERWISE NOTED.

PLAN	DESIGNED	DATE
NOTE BOOK NO.	BY	
	ALIGNED	
	CHECKED	
	CAD FILE NAME	

PROFILE	DESIGNED	DATE
NOTE BOOK NO.	BY	
	GRADES	
	CHECKED	
	B.M. NOTED	

FILE NAME = 04252-PMKG-01
USER NAME =
PLOT SCALE = 1"=50'
PLOT DATE = 12-05-16

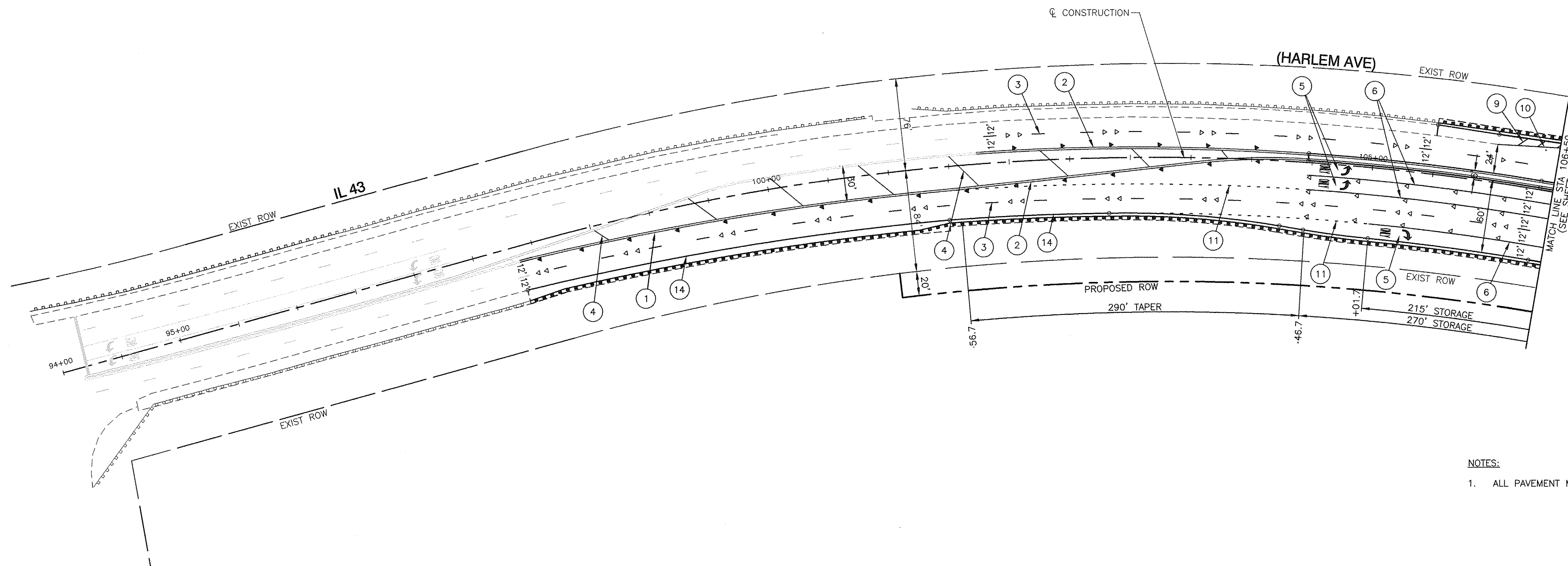
DESIGNED -- WPD	REVISD --
CHECKED -- WPD	REVISD --
DRAWN -- ACAD	REVISD --
CHECKED -- ACAD	REVISD --

**STATE OF ILLINOIS
 DEPARTMENT OF TRANSPORTATION**

**191ST STREET IMPROVEMENTS
 PAVEMENT MARKING PLAN
 191ST STREET - STA 29+00 TO STA 34+82.40**

SCALE: 1"=50' SHEET NO. 38 OF 108 SHEETS STA. TO STA.

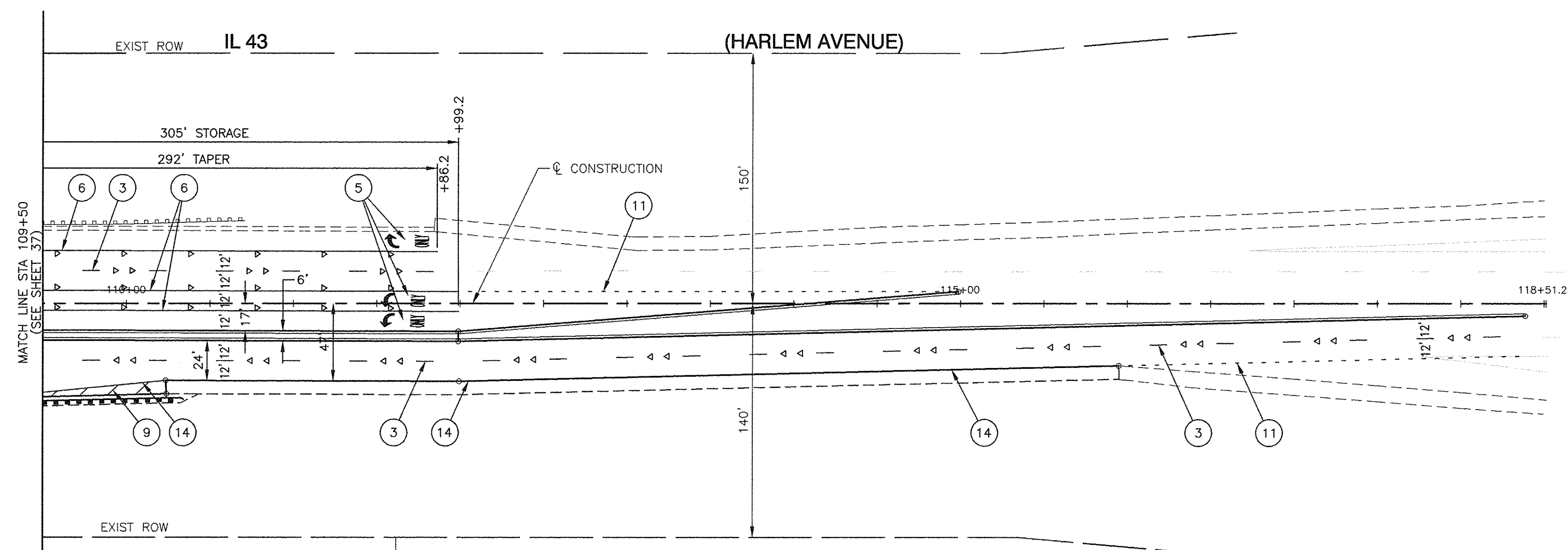
F.A.U. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
3754	01-00098-00-RS	COOK	108	38
CONTRACT NO. 61A03				
FED. ROAD DIST. NO. 1 ILLINOIS FED. AID PROJECT				



NOTES:
 1. ALL PAVEMENT MARKINGS SHALL BE THERMOPLASTIC.

LEGEND

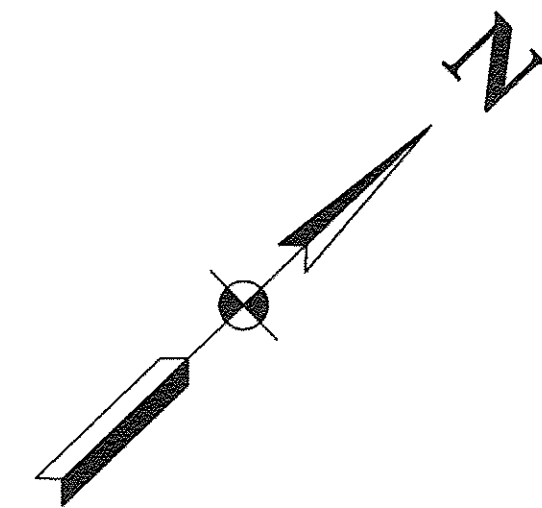
- ① 4" DOUBLE YELLOW CENTERLINE (11" C/C)
 - ② 4" DOUBLE YELLOW MEDIAN OUTLINE (11" C/C)
 - ③ 4" WHITE SKIP DASH (10' LINE, 30' SPACE)
 - ④ 12" YELLOW DIAGONAL (75' C/C - 5 MINIMUM)
 - ⑤ WHITE LETTERS & SYMBOLS - LARGE
 - ⑥ 6" WHITE LANE LINE
 - ⑦ 4" YELLOW LINES 5-1/2" C-C WITH SKIP DASH LINE(10' LINE, 30' SPACING)
 - ⑧ 24" WHITE STOP BAR
 - ⑨ 12" WHITE DIAGONAL (20' C/C)
 - ⑩ 8" WHITE EDGE LINE
 - ⑪ 6" WHITE SKIP DASH (2' LINE, 6' SPACE)
 - ⑫ 12" YELLOW DIAGONAL (20' C/C)
 - ⑬ 12" YELLOW LINE
 - ⑭ 4" WHITE EDGE LINE
- ◁ ONE-WAY CRYSTAL MARKER
40' C/C UNLESS OTHERWISE NOTED.
 - ◄ ONE-WAY AMBER MARKERS
40' C/C UNLESS OTHERWISE NOTED.
 - ◆ TWO-WAY AMBER MARKERS
40' C/C UNLESS OTHERWISE NOTED.



PLAN	SURVEYED	DATE
NOTE BOOK	PLOTTED	BY
NO.	CHECKED	
	ALIGNMENT	
	ACAD FILE NAME	

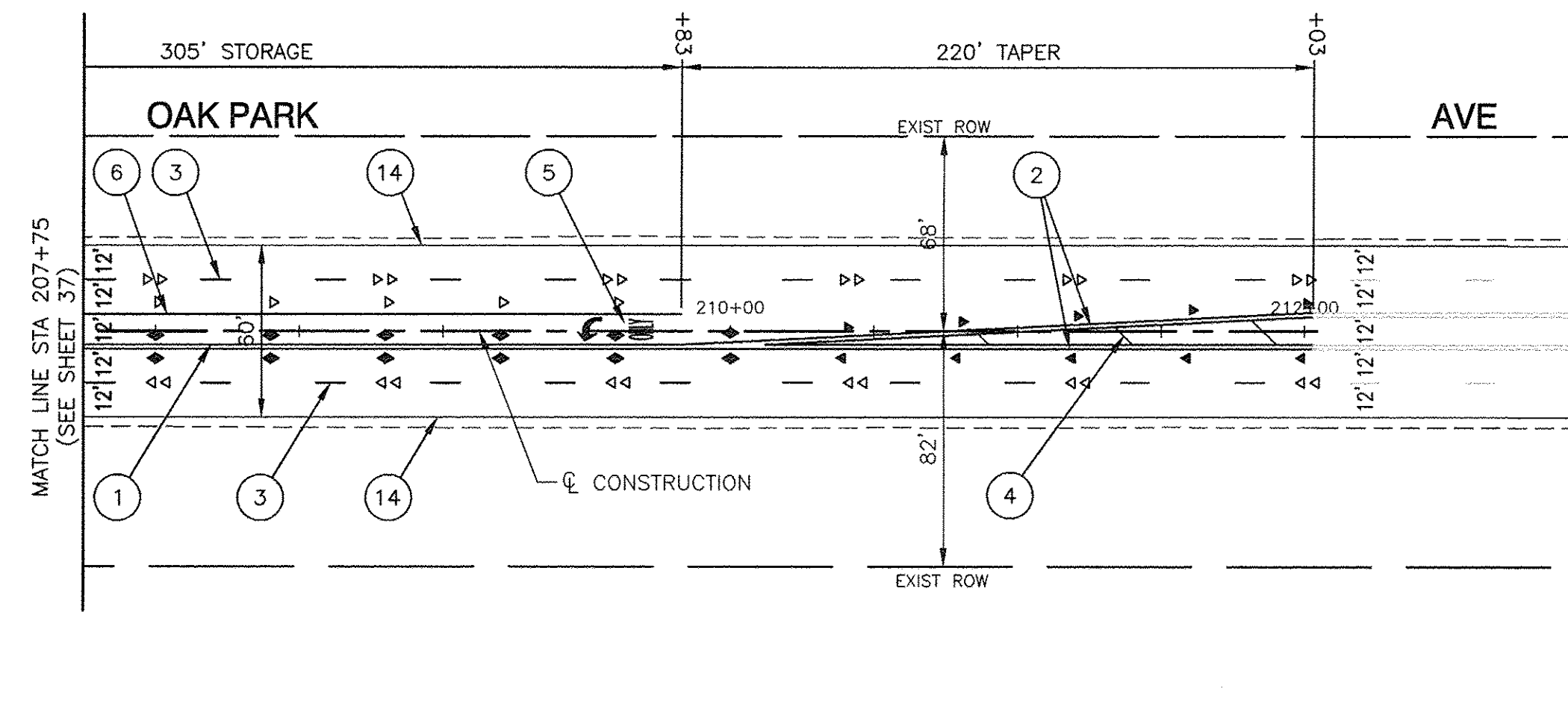
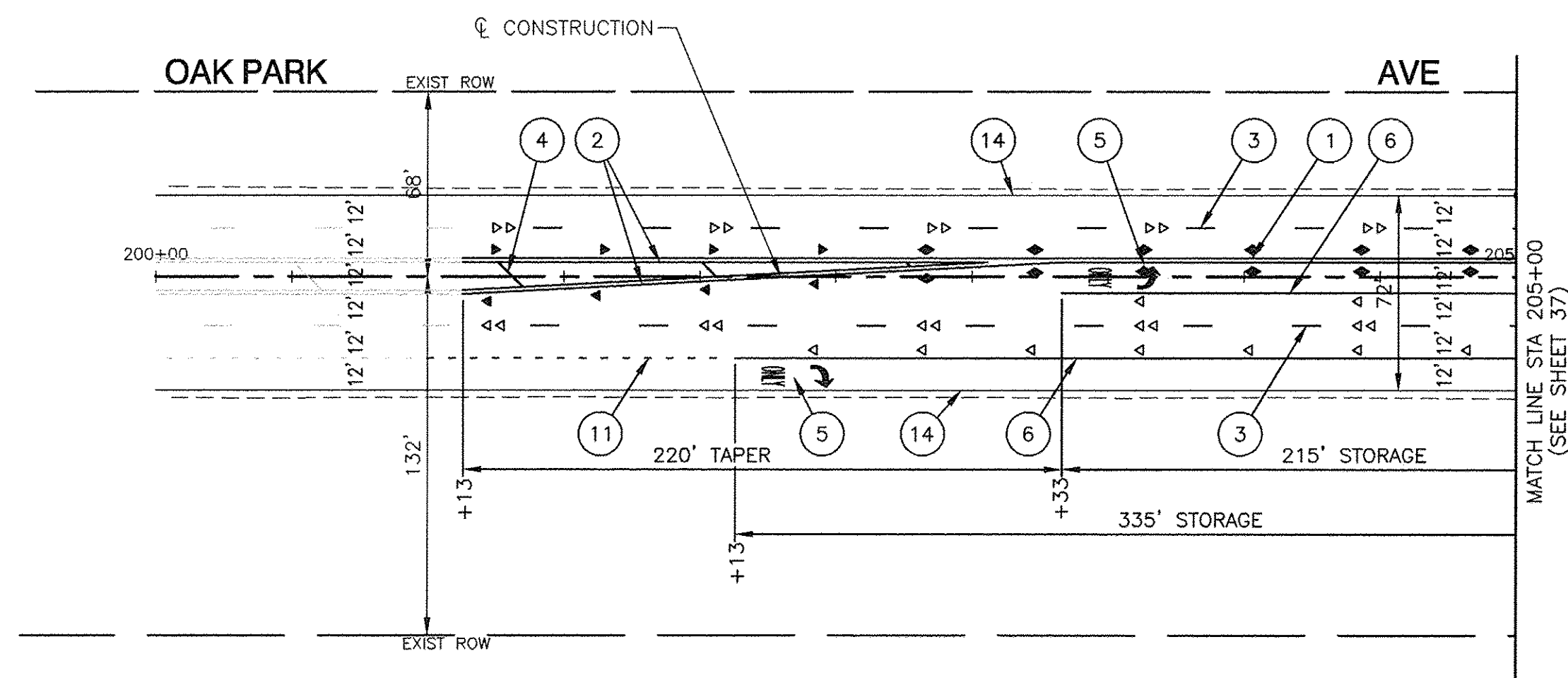
PROFILE	SURVEYED	DATE
NOTE BOOK	PLOTTED	BY
	CHECKED	
	GRADES	
	NOTED	

FILE NAME = 04252-PMKG-01	USER NAME =	DESIGNED -- WPD	REVISED --	STATE OF ILLINOIS DEPARTMENT OF TRANSPORTATION	191ST STREET IMPROVEMENTS PAVEMENT MARKING PLAN IL 43 (HARLEM AVENUE)			F.A.U. RTE. 3754	SECTION 01-00098-00-RS	COUNTY COOK	TOTAL SHEETS 108	SHEET NO. 39
	PLOT SCALE = 1"=50'	CHECKED -- WPD	REVISED --		SCALE: 1"=50	SHEET NO. 39	OF 108 SHEETS	STA.	TO STA.	FED. ROAD DIST. NO. 1	ILLINOIS	FED. AID PROJECT
	PLOT DATE = 12-05-16	DRAWN -- ACAD	REVISED --									
		CHECKED -- ACAD	REVISED --									



PLAN	SURVEYED	DATE
	PLOTTED	
	CHECKED	
	BY	
	NO.	

PROFILE	SURVEYED	DATE
	PLOTTED	
	CHECKED	
	BY	
	NO.	



NOTES:

1. ALL PAVEMENT MARKINGS SHALL BE THERMOPLASTIC.

LEGEND

- | | |
|--|---|
| ① 4" DOUBLE YELLOW CENTERLINE (11" C/C) | ◀ ONE-WAY CRYSTAL MARKER
40' C/C UNLESS OTHERWISE NOTED. |
| ② 4" DOUBLE YELLOW MEDIAN OUTLINE (11" C/C) | ◀ ONE-WAY AMBER MARKERS
40' C/C UNLESS OTHERWISE NOTED. |
| ③ 4" WHITE SKIP DASH (10' LINE, 30' SPACE) | ◀ TWO-WAY AMBER MARKERS
40' C/C UNLESS OTHERWISE NOTED. |
| ④ 12" YELLOW DIAGONAL (75' C/C - 5 MINIMUM) | |
| ⑤ WHITE LETTERS & SYMBOLS - LARGE | |
| ⑥ 6" WHITE LANE LINE | |
| ⑦ 4" YELLOW LINES 5-1/2" C-C WITH
SKIP DASH LINE(10' LINE, 30' SPACING) | |
| ⑧ 24" WHITE STOP BAR | |
| ⑨ 12" WHITE DIAGONAL (20' C/C) | |
| ⑩ 8" WHITE EDGE LINE | |
| ⑪ 6" WHITE SKIP DASH (2' LINE, 6' SPACE) | |
| ⑫ 12" YELLOW DIAGONAL (20' C/C) | |
| ⑬ 12" YELLOW LINE | |
| ⑭ 4" WHITE EDGE LINE | |

FILE NAME = 04252-PMKG-01

USER NAME =	DESIGNED - WPD	REVISED -
	CHECKED - WPD	REVISED -
PLOT SCALE =	DRAWN - ACAD	REVISED -
PLOT DATE = 12-05-16	CHECKED - ACAD	REVISED -

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

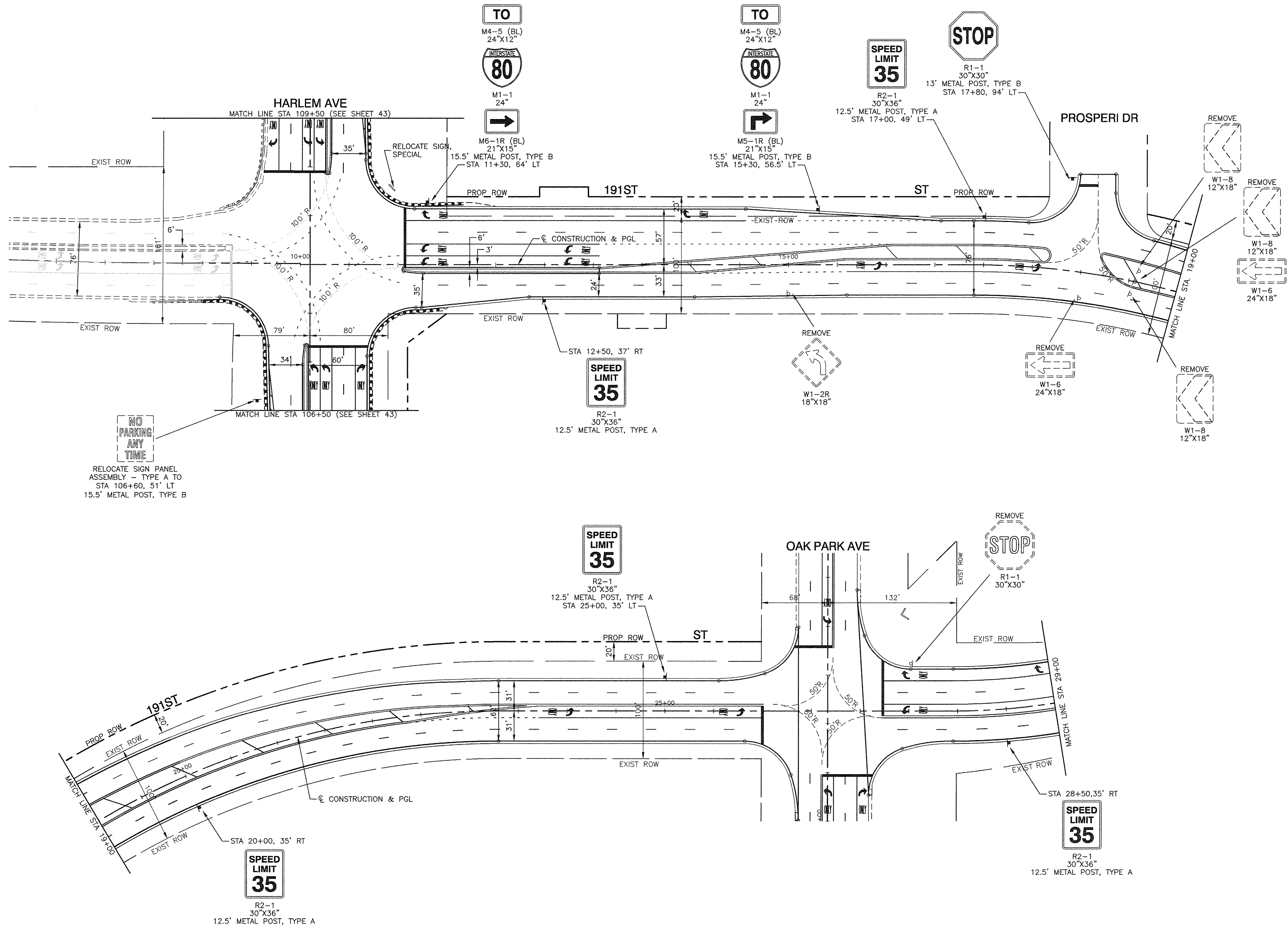
191ST STREET IMPROVEMENTS
PAVEMENT MARKING PLAN
OAK PARK AVENUE

SCALE: SHEET NO. 40 OF 108 SHEETS STA. TO STA.

F.A.U. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
3754	01-00098-00-RS	COOK	108	40
CONTRACT NO. 61A03				
FED. ROAD DIST. NO. 1 ILLINOIS FED. AID PROJECT				

DATE	
BY	
DESIGNED	
CHECKED	
PLANNING	
ENGINEER	
IN CHARGE	

DATE	
BY	
DESIGNED	
CHECKED	
PLANNING	
ENGINEER	
IN CHARGE	



RELOCATE SIGN PANEL
ASSEMBLY - TYPE A TO
STA 106+60, 51' LT
15.5' METAL POST, TYPE B

LEGEND

	EXISTING SIGN
	PROPOSED SIGN

FILE NAME = 04252-SIGN-01

USER NAME =	DESIGNED - WPD	REVISED -
	CHECKED - WPD	REVISED -
PLOT SCALE = 1"=50'	DRAWN - ACAD	REVISED -
PLOT DATE = 12-05-16	CHECKED - ACAD	REVISED -

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

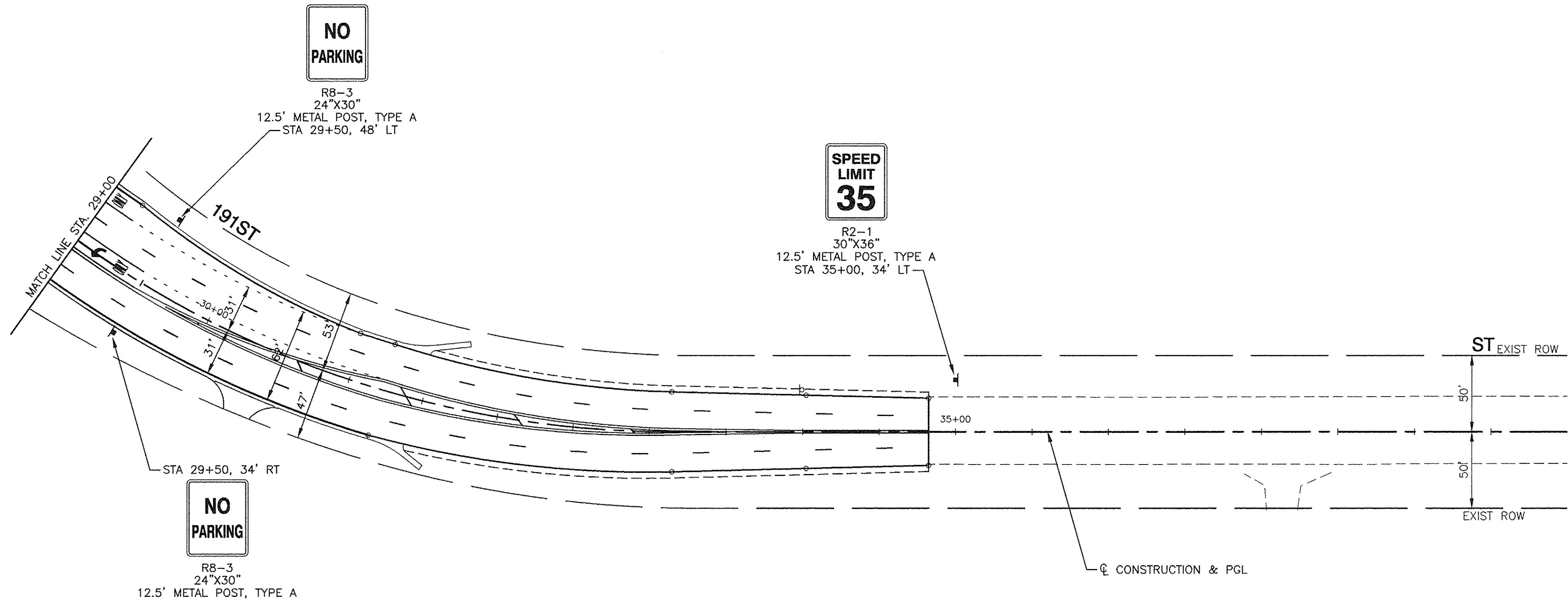
191ST STREET IMPROVEMENTS SIGNING PLAN	
191ST STREET - BEGIN IMPROVEMENTS TO STA 29+00	
SCALE: 1"=50'	SHEET NO. 41 OF 108 SHEETS
STA.	TO STA.

F.A.U. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
3754	01-00098-00-RS	COOK	108	41
CONTRACT NO. 61A03				
FED. ROAD DIST. NO. 1	ILLINOIS	FED. AID PROJECT		



PLAN	SURVEYED	DATE
	PLOTTED	
	CHECKED	
	RT. OF WAY CHECKED	
	CADD FILE NAME	
NOTE BOOK NO.		

PROFILE	SURVEYED	DATE
	PLOTTED	
	CHECKED	
	B.M. NOTED	
NOTE BOOK NO.		

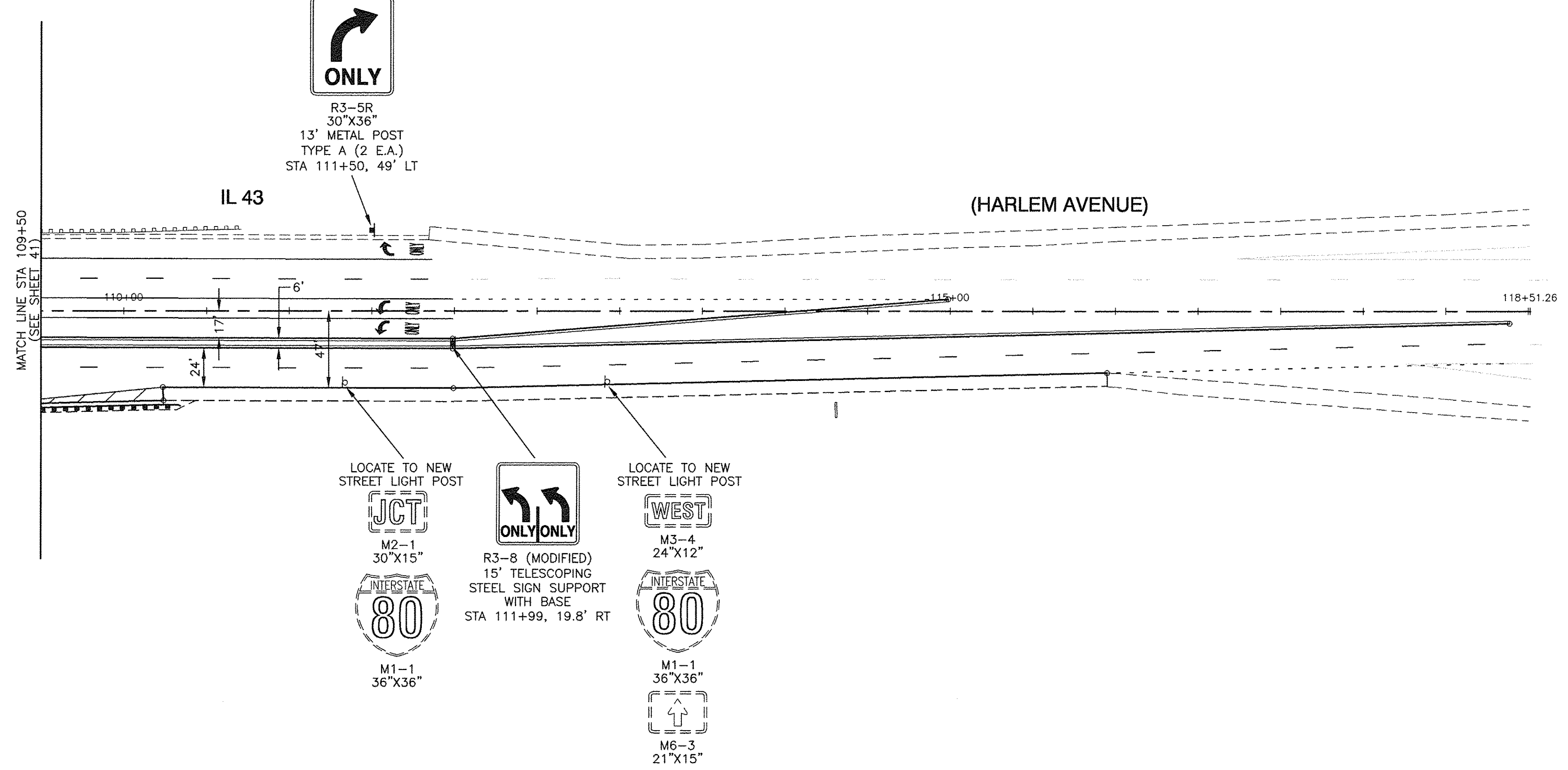
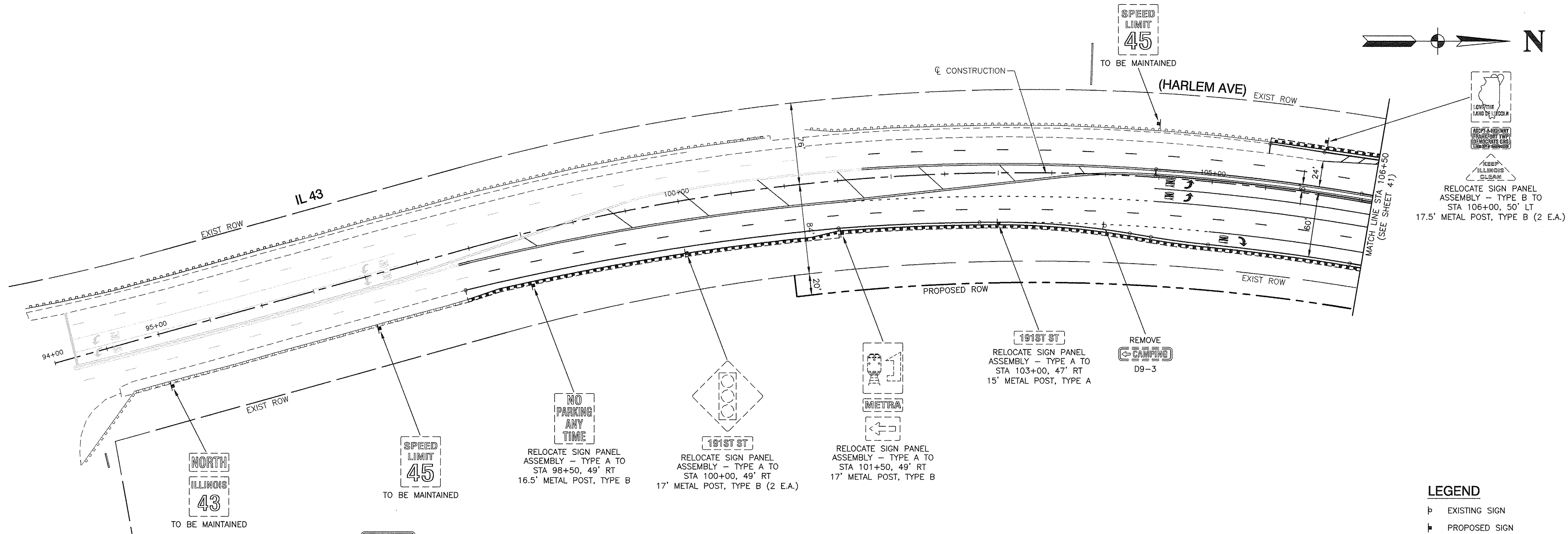


LEGEND
 P EXISTING SIGN
 ▬ PROPOSED SIGN

FILE NAME = 04252-SIGN-01	USER NAME =	DESIGNED -- WPD	REVISED --	STATE OF ILLINOIS DEPARTMENT OF TRANSPORTATION	191ST STREET IMPROVEMENTS SIGNING PLAN		F.A.U. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.	
	PLOT SCALE = 1"=50'	CHECKED -- WPD	REVISED --		191ST STREET - STA 29+00 TO STA END IMPROVEMENTS		3754	01-00098-00-RS	COOK	108	42	
PLOT DATE = 12-05-16	DRAWN -- ACAD	REVISED --			SCALE: 1"=50	SHEET NO. 42 OF 108 SHEETS	STA.	TO STA.	CONTRACT NO. 61A03			
	CHECKED -- ACAD	REVISED --			FED. ROAD DIST. NO. 1 ILLINOIS FED. AID PROJECT							

PLAN	SURVEYED	DATE
	PLOTTED	BY
	REVISED	
	CHECKED	
	NO. _____	
	FILE NAME	

PROFILE	SURVEYED	DATE
	PLOTTED	BY
	REVISED	
	CHECKED	
	NO. _____	
	FILE NAME	



FILE NAME = 04282-SIGN-01	USER NAME =	DESIGNED - WPD	REVISOR -	STATE OF ILLINOIS DEPARTMENT OF TRANSPORTATION	191ST STREET IMPROVEMENTS SIGNING PLAN IL 43 (HARLEM AVE)		F.A.U. RTE. 3754	SECTION 01-00098-00-RS	COUNTY COOK	TOTAL SHEETS 108	SHEET NO. 43
	PLOT SCALE = 1"=50'	CHECKED - WPD	REVISOR -		SCALE: 1"=50	SHEET NO. 43 OF 108 SHEETS	STA. TO STA.	FED. ROAD DIST. NO. 1	ILLINOIS	FED. AID PROJECT	CONTRACT NO. 61A03
	PLOT DATE = 12-05-16	DRAWN - ACAD	REVISOR -								
		CHECKED - ACAD	REVISOR -								

TRAFFIC SIGNAL LEGEND

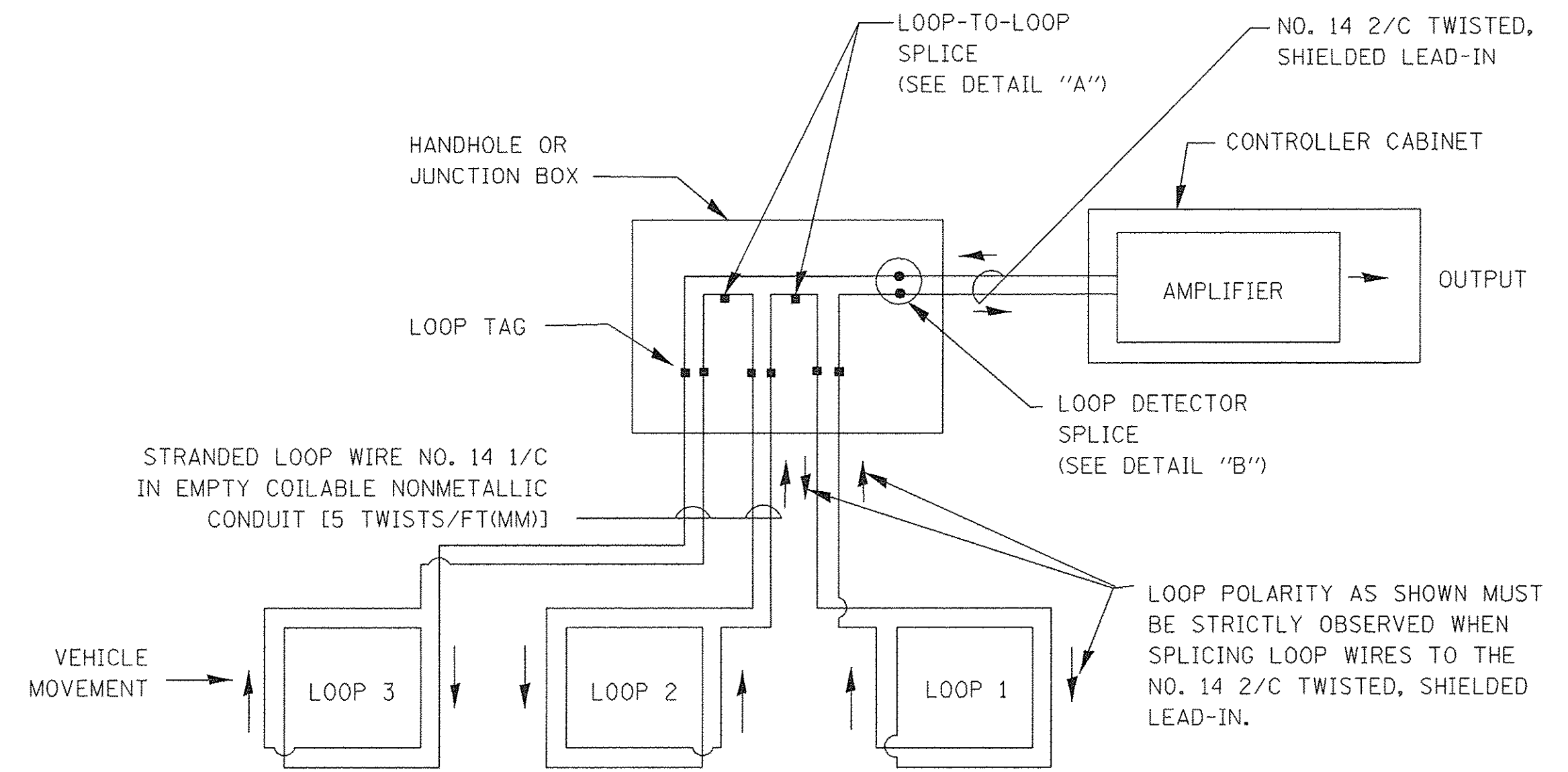
(NOT TO SCALE)

ITEM	EXISTING	PROPOSED	ITEM	EXISTING	PROPOSED	ITEM	EXISTING	PROPOSED
CONTROLLER CABINET			HANDHOLE -SQUARE -ROUND	 	 	SIGNAL HEAD -(P) PROGRAMMABLE SIGNAL HEAD		
COMMUNICATION CABINET			HEAVY DUTY HANDHOLE -SQUARE -ROUND	 	 	SIGNAL HEAD WITH BACKPLATE -(P) PROGRAMMABLE SIGNAL HEAD -(RB) RETROREFLECTIVE BACKPLATE		
MASTER CONTROLLER			DOUBLE HANDHOLE			PEDESTRIAN SIGNAL HEAD AT RAILROAD INTERSECTIONS		
MASTER MASTER CONTROLLER			JUNCTION BOX			PEDESTRIAN SIGNAL HEAD WITH COUNTDOWN TIMER		
UNINTERRUPTIBLE POWER SUPPLY			RAILROAD CANTILEVER MAST ARM			ILLUMINATED SIGN "NO LEFT TURN"/"NO RIGHT TURN"		
SERVICE INSTALLATION -(P) POLE MOUNTED			RAILROAD FLASHING SIGNAL			NUMBER OF CONDUCTORS, ELECTRIC CABLE NO. 14, UNLESS NOTED OTHERWISE. ALL DETECTOR LOOP CABLE TO BE SHIELDED		
SERVICE INSTALLATION -(G) GROUND MOUNTED -(GM) GROUND MOUNTED METERED	 	 	RAILROAD CROSSING GATE			GROUND CABLE IN CONDUIT, NO. 6 SOLID COPPER (GREEN)		
TELEPHONE CONNECTION			RAILROAD CROSSBUCK			ELECTRIC CABLE IN CONDUIT, TRACER NO. 14 1/C		
STEEL MAST ARM ASSEMBLY AND POLE			RAILROAD CONTROLLER CABINET			COAXIAL CABLE		
ALUMINUM MAST ARM ASSEMBLY AND POLE			UNDERGROUND CONDUIT (UC), GALVANIZED STEEL			VENDOR CABLE		
STEEL COMBINATION MAST ARM ASSEMBLY AND POLE WITH LUMINAIRE			TEMPORARY SPAN WIRE, TETHER WIRE, AND CABLE			COPPER INTERCONNECT CABLE, NO. 18, 3 PAIR TWISTED, SHIELDED		
SIGNAL POST -(BM) BARREL MOUNTED - TEMPORARY		 	SYSTEM ITEM			FIBER OPTIC CABLE -NO. 62.5/125, MM12F -NO. 62.5/125, MM12F SM12F -NO. 62.5/125, MM12F SM24F		
WOOD POLE			INTERSECTION ITEM			GROUND ROD -(C) CONTROLLER -(M) MAST ARM -(P) POST -(S) SERVICE		
GUY WIRE			REMOVE ITEM					
SIGNAL HEAD			RELOCATE ITEM					
SIGNAL HEAD WITH BACKPLATE			ABANDON ITEM					
SIGNAL HEAD OPTICALLY PROGRAMMED			CONTROLLER CABINET AND FOUNDATION TO BE REMOVED					
FLASHER INSTALLATION -(FS) SOLAR POWERED	 	 	MAST ARM POLE AND FOUNDATION TO BE REMOVED					
PEDESTRIAN SIGNAL HEAD			SIGNAL POST AND FOUNDATION TO BE REMOVED					
PEDESTRIAN PUSH BUTTON -(APS) ACCESSIBLE PEDESTRIAN PUSH BUTTON	 	 	DETECTOR LOOP, TYPE I	 	 			
RADAR DETECTION SENSOR			PREFORMED DETECTOR LOOP	 	 			
VIDEO DETECTION CAMERA			SAMPLING (SYSTEM) DETECTOR	 	 			
RADAR/VIDEO DETECTION ZONE			INTERSECTION AND SAMPLING (SYSTEM) DETECTOR	 	 			
PAN, TILT, ZOOM (PTZ) CAMERA			QUEUE AND SAMPLING (SYSTEM) DETECTOR	 	 			
EMERGENCY VEHICLE LIGHT DETECTOR			WIRELESS DETECTOR SENSOR					
CONFIRMATION BEACON			WIRELESS ACCESS POINT					
WIRELESS INTERCONNECT								
WIRELESS INTERCONNECT RADIO REPEATER								

TS SHT NO. 1

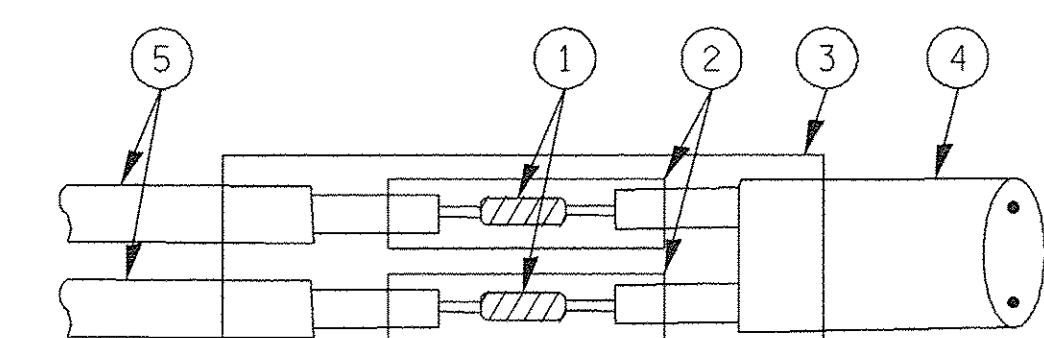
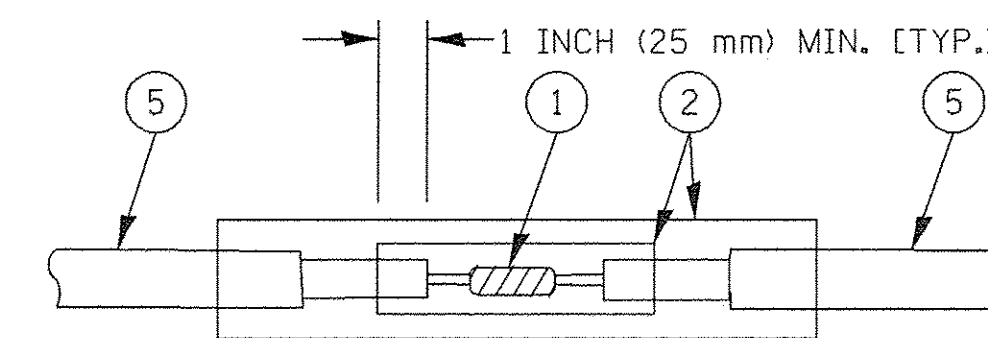
LOOP DETECTOR NOTES

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 DIVEHOLES 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.

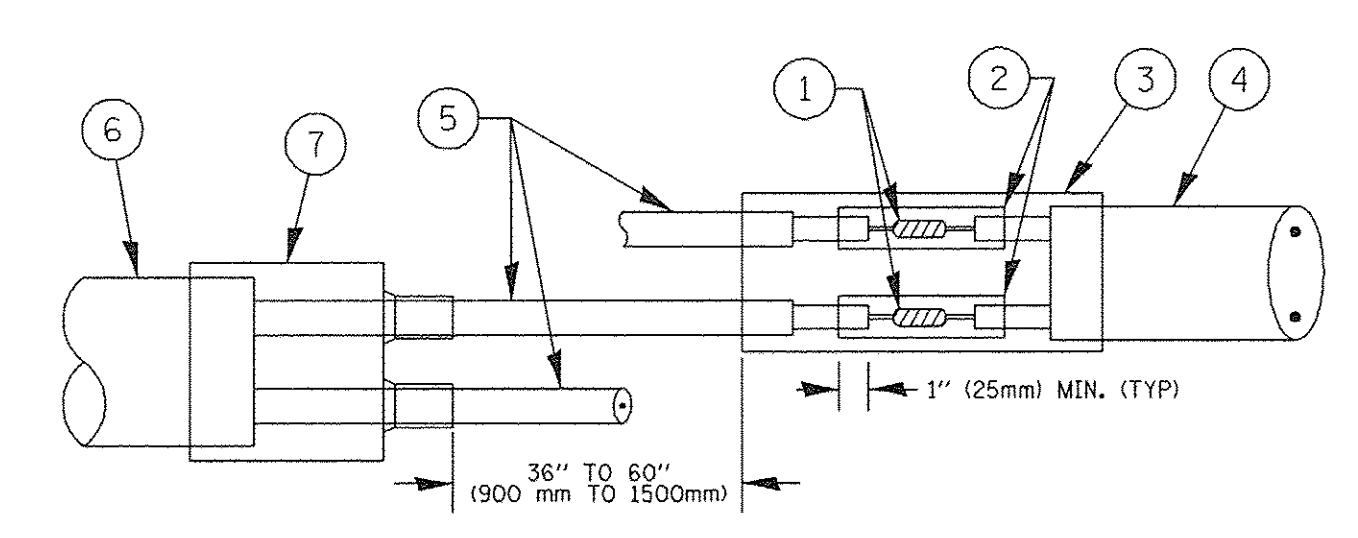
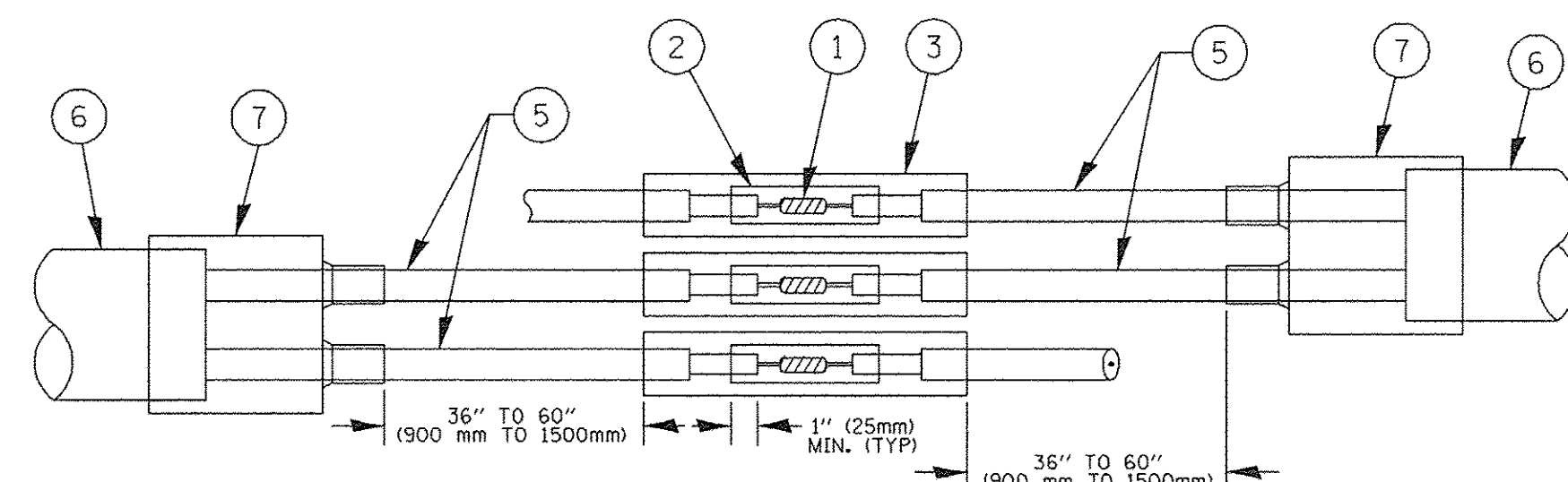


DETECTOR LOOP WIRING SCHEMATIC

- 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.



TYPE I LOOP

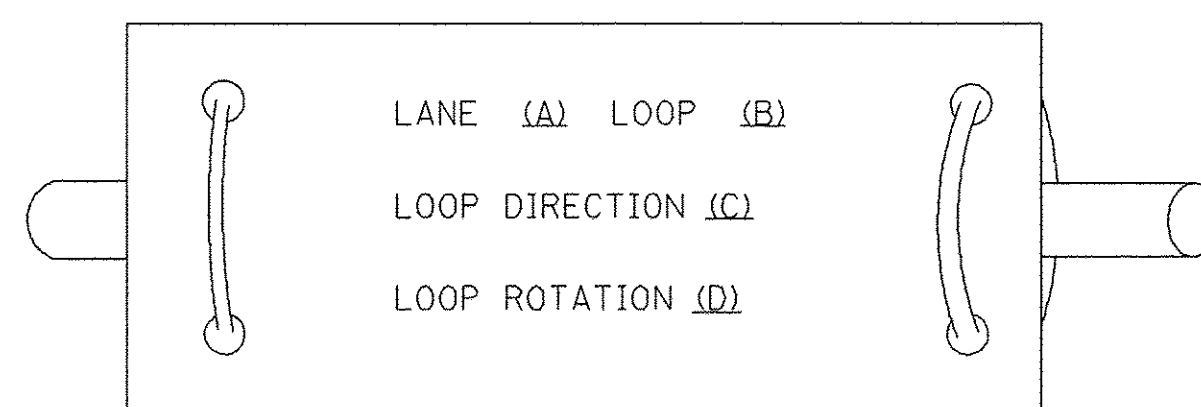


PRE-FORMED LOOP

LOOP DETECTOR SPLICE

- ① WESTERN UNION SPLICE SOLDERED WITH ROSIN CORE FLUX. ALL EXPOSED SURFACES OF THE SOLDER SHALL BE SMOOTH. THE WESTERN UNION SPLICES SHALL BE STAGGERED.
- 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

LOOP LEAD-IN CABLE TAG

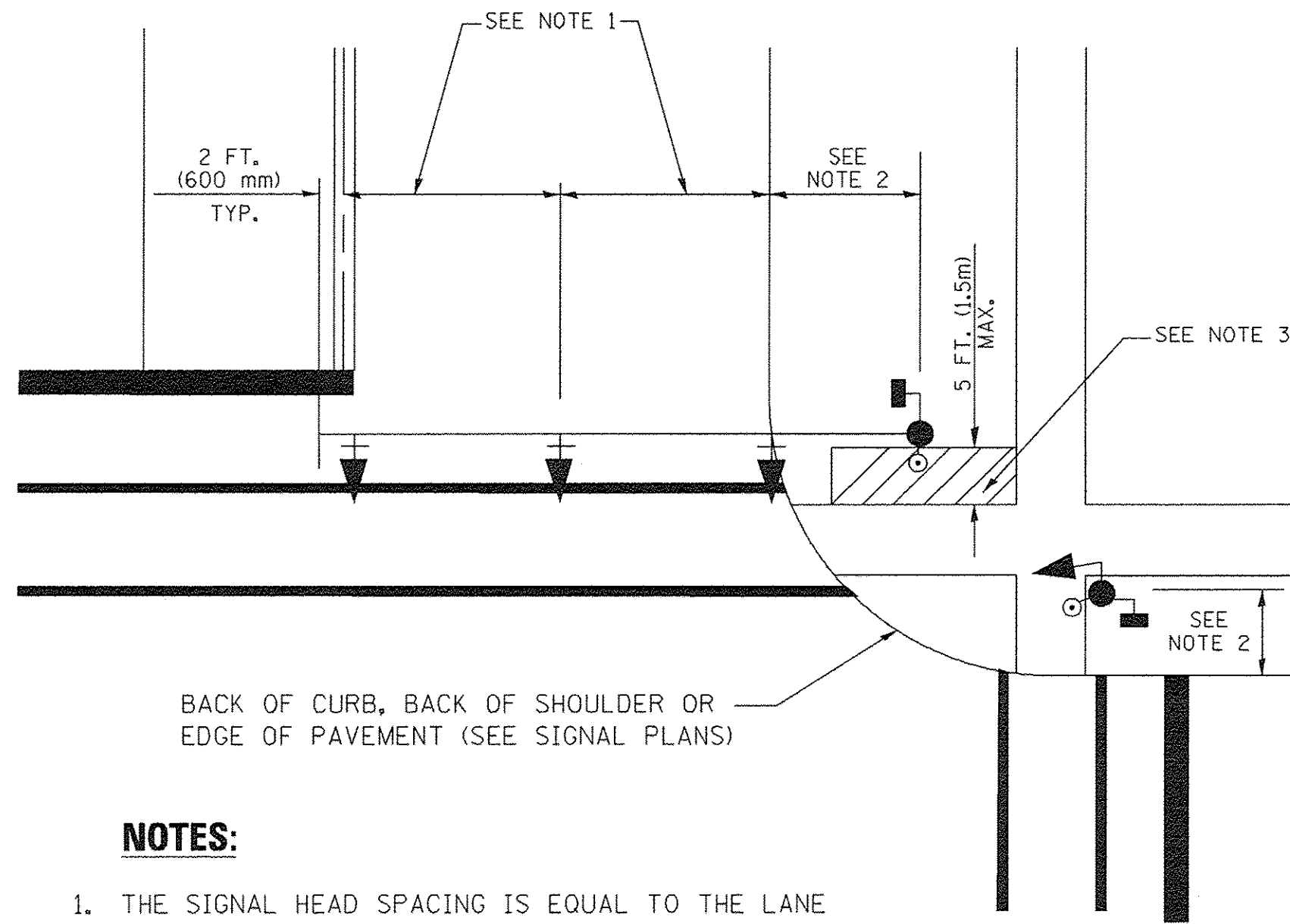


- A. LANE 1 IS THE LANE CLOSEST TO THE CENTERLINE OF THE ROADWAY
- B. LOOP #1 IS THE LOOP IN THE LANE CLOSEST TO THE INTERSECTION.
- C. LABEL LOOP CABLE "IN" OR LOOP CABLE "OUT".
- D. LABEL LOOP CABLE CLOCKWISE OR LOOP CABLE COUNTERCLOCKWISE.

TS SHT NO. 2

FILE NAME = 04292-DTLS-TS05 - P02	USER NAME = pascencia	DESIGNED --	REVISED --	STATE OF ILLINOIS DEPARTMENT OF TRANSPORTATION	DISTRICT ONE STANDARD TRAFFIC SIGNAL DESIGN DETAILS			F.A.U. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
	PLOT SCALE = 100.0000' / 1"	CHECKED --	REVISED --					3754	01-00098-00-RS	COOK	108	45
	PLOT DATE = 5/17/2016	DRAWN --	REVISED --					TS-05		CONTRACT NO. 61A03		
		CHECKED --	REVISED --					FED. ROAD DIST. NO. 1	ILLINOIS	FED. AID PROJECT		

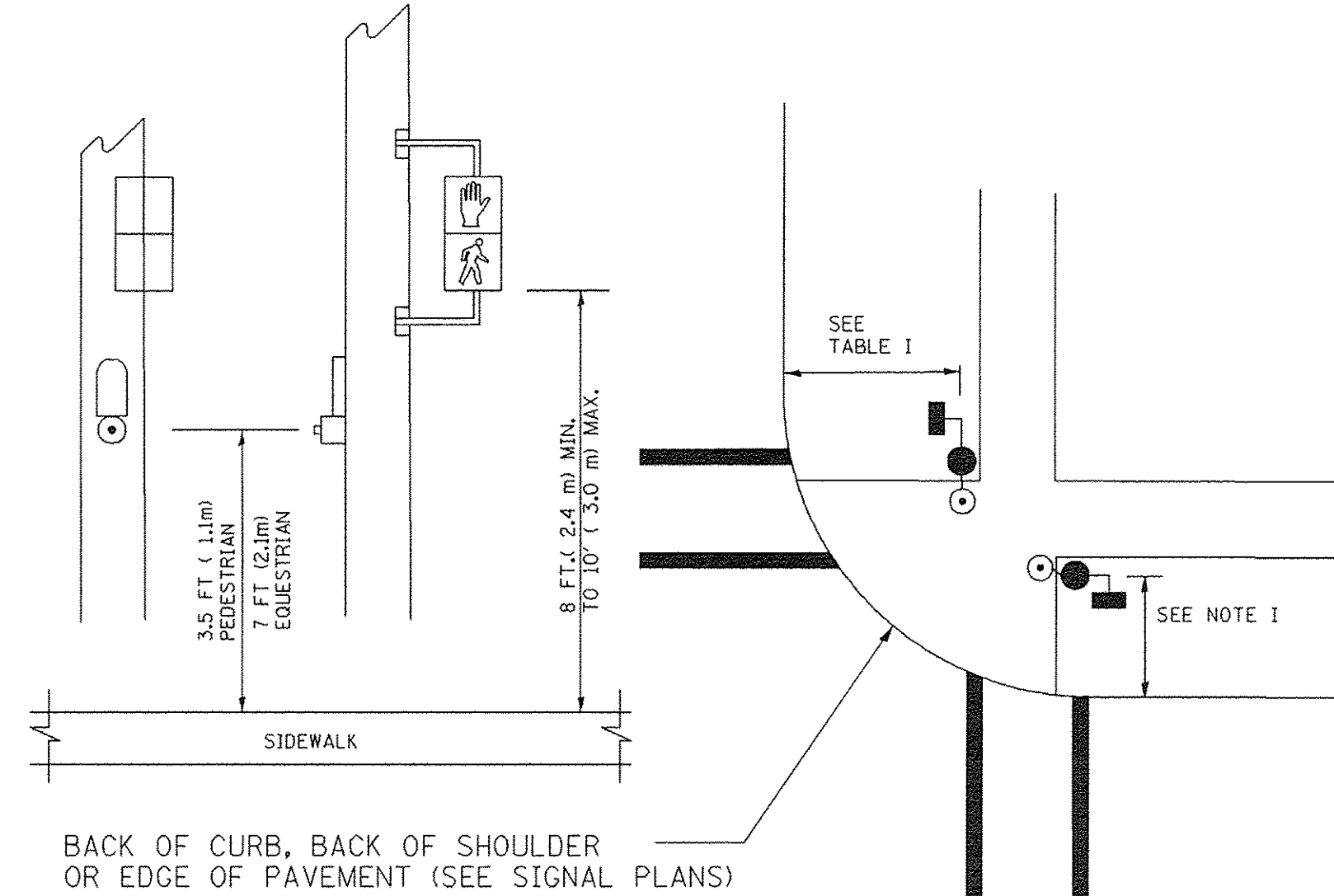
**TRAFFIC SIGNAL MAST ARM AND SIGNAL POST
MAST ARM MOUNTED SIGNALS IN EXISTING, PROPOSED OR
FUTURE SIDEWALK/BICYCLE PATH AREA. INTERSECTION SHOWN
WITH PEDESTRIAN SIGNALS AND PEDESTRIAN PUSHBUTTON DETECTORS.**



NOTES:

1. THE SIGNAL HEAD SPACING IS EQUAL TO THE LANE WIDTH OR AS SHOWN ON THE TRAFFIC SIGNAL PLAN.
2. REFER TO THE TRAFFIC SIGNAL EQUIPMENT OFFSET TABLE.
3. PROVIDE A LEVEL ALL-WEATHER SURFACE (CONCRETE SIDEWALK, ASPHALT BICYCLE PATH SURFACE OR MATCHING MATERIAL TO THE ADJACENT SURFACE) UP TO THE MAST ARM SHAFT OR THE SIGNAL POST.
4. THE FACE OF THE PEDESTRIAN PUSHBUTTON SHALL BE PARALLEL TO THE CROSSWALK TO BE USED.
5. THE LOCATIONS AND INSTALLATION OF PEDESTRIAN SIGNAL HEADS AND PEDESTRIAN PUSHBUTTONS SHALL MEET THE REQUIREMENTS OF THE MUTCD AND INFORMATION FOUND IN THE "AMERICANS WITH DISABILITIES ACT ACCESSIBILITY GUIDELINES FOR BUILDINGS AND FACILITIES."

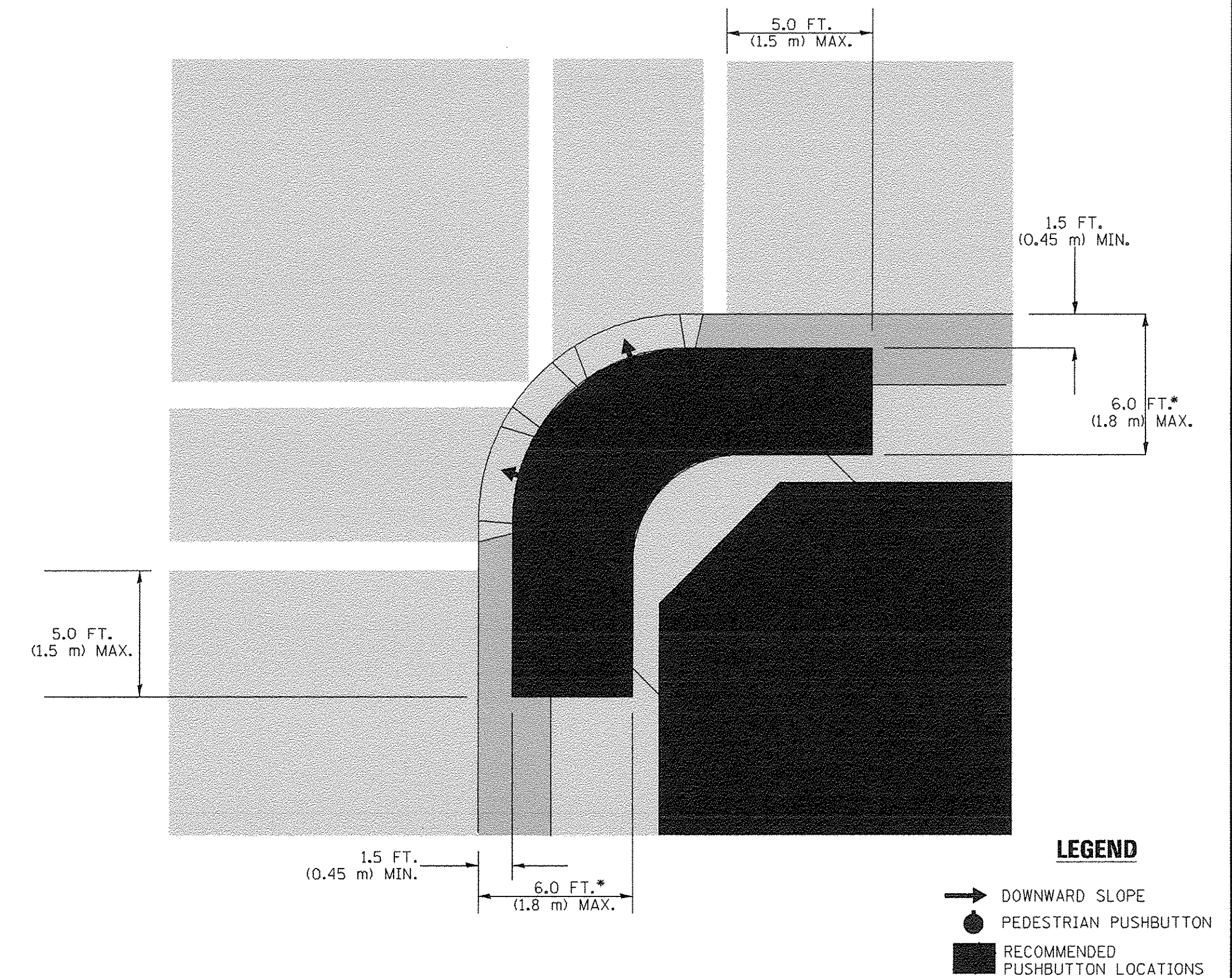
**PEDESTRIAN SIGNAL POST
AND
PEDESTRIAN PUSH BUTTON POST**



NOTES:

1. REFER TO THE TRAFFIC SIGNAL EQUIPMENT OFFSET TABLE.
2. PROVIDE A LEVEL ALL-WEATHER SURFACE (CONCRETE SIDEWALK, ASPHALT BICYCLE PATH SURFACE OR MATCHING MATERIAL TO THE ADJACENT SURFACE) UP TO THE PEDESTRIAN SIGNAL POST OR THE PEDESTRIAN PUSH BUTTON POST.
3. THE FACE OF THE PEDESTRIAN PUSHBUTTON SHALL BE PARALLEL TO THE CROSSWALK TO BE USED.
4. THE LOCATIONS AND INSTALLATION OF PEDESTRIAN SIGNAL HEADS AND PEDESTRIAN PUSHBUTTONS SHALL MEET THE REQUIREMENTS OF THE MUTCD AND INFORMATION FOUND IN THE "AMERICANS WITH DISABILITIES ACT ACCESSIBILITY GUIDELINES FOR BUILDINGS AND FACILITIES."

RECOMMENDED PUSHBUTTON LOCATIONS



LEGEND

- DOWNWARD SLOPE
- PEDESTRIAN PUSHBUTTON
- RECOMMENDED PUSHBUTTON LOCATIONS

- * WHERE THERE ARE CONSTRAINTS THAT MAKE IT IMPRACTICAL TO PLACE THE PEDESTRIAN PUSHBUTTON BETWEEN 1.5 FT (0.45 m) AND 6 FT (1.8 m) FROM THE EDGE OF THE CURB, SHOULDER, OR PAVEMENT, IT SHOULD NOT BE FURTHER THAN 10 FT (3 m) FROM THE EDGE OF CURB, SHOULDER, OR PAVEMENT.
- ** WHERE THERE ARE CONSTRAINTS ON A PARTICULAR CORNER THAT MAKE IT IMPRACTICAL TO PROVIDE THE 10 FT (3 m) SEPERATION BETWEEN THE TWO PEDESTRIAN PUSHBUTTONS, THE PUSHBUTTONS MAY BE PLACED CLOSER TOGETHER OR ON THE SAME POLE.

NOTES:

1. PEDESTRIAN SIGNAL HEADS SHALL BE MOUNTED WITH THE BOTTOM OF THE SIGNAL HOUSING INCLUDING BRACKETS NOT LESS THAN 8 FT (2.4 m) OR MORE THAN 10 FT (3 m) ABOVE SIDEWALK LEVEL, AND SHALL BE POSITIONED AND ADJUSTED TO PROVIDE MAXIMUM VISIBILITY AT THE BEGINNING OF THE CONTROLLED CROSSWALK.
2. THE BOTTOM OF THE SIGNAL HOUSING (INCLUDING BRACKETS) OF A VEHICULAR SIGNAL FACE THAT IS NOT LOCATED OVER A HIGHWAY SHALL BE AT LEAST 8 FT (2.4 m) BUT NOT MORE THAN 19 FT (5.8 m) ABOVE THE SIDEWALK OR, IF THERE IS NO SIDEWALK, ABOVE THE PAVEMENT GRADE AT THE CENTER OF THE ROADWAY.
3. THE BOTTOM OF THE SIGNAL HOUSING AND ANY RELATED ATTACHMENTS TO A SIGNAL FACE LOCATED OVER ANY PORTION OF A HIGHWAY SHALL BE ACCORDING TO CURRENT STATE STANDARDS 877001, 877002, 877006, 877011 AND 877012 WITH A MINIMUM OF 16 FT (5.0 m) AND A MAXIMUM OF 18 FT. (5.5 m) FROM THE HIGHEST POINT OF PAVEMENT.
4. THE BOTTOM OF THE TEMPORARY SPAN WIRE MOUNTED SIGNAL HOUSING AND ANY RELATED ATTACHMENTS TO A SIGNAL FACE LOCATED OVER ANY PORTION OF A HIGHWAY SHALL BE ACCORDING TO CURRENT STATE STANDARD 880001 WITH A MINIMUM OF 17 FT (5.18 m) FROM THE HIGHEST POINT OF PAVEMENT.
5. THE TOP OF THE SIGNAL HOUSING OF A SIGNAL FACE LOCATED OVER ANY PORTION OF A HIGHWAY SHALL NOT BE MORE THAN 25.6 FT (7.8 m) ABOVE THE PAVEMENT.

TRAFFIC SIGNAL EQUIPMENT OFFSET

TRAFFIC SIGNAL EQUIPMENT	COMBINATION CONCRETE CURB AND GUTTER (MINIMUM DISTANCE FROM BACK OF CURB TO CENTERLINE OF FOUNDATION)	SHOULDER/NON-CURBED AREA (MINIMUM DISTANCE FROM EDGE OF PAVEMENT TO CENTERLINE OF FOUNDATION)
TRAFFIC SIGNAL MAST ARM POLE	6 FT (1.8m)	SHOULDER WIDTH + 2 FT (0.6m), MINIMUM 10 FT (3.0m)
TRAFFIC SIGNAL POST	4 FT (1.2m)	SHOULDER WIDTH + 2 FT (0.6m), MINIMUM 10 FT (3.0m)
PEDESTRIAN SIGNAL POST	4 FT (1.2m)	SHOULDER WIDTH + 2 FT (0.6m), MINIMUM 10 FT (3.0m)
PEDESTRIAN PUSHBUTTON POST	4 FT (1.2m)	SHOULDER WIDTH + 2 FT (0.6m), MINIMUM 10 FT (3.0m)
TEMPORARY WOOD POLE	6 FT (1.8m)	SHOULDER WIDTH + 2 FT (0.6m), MINIMUM 10 FT (3.0m)
CONTROLLER CABINET	6 FT (1.8m) MINIMUM DISTANCE SEE NOTE 2	SHOULDER WIDTH + 6 FT (1.8m), MINIMUM 16 FT (4.9m) SEE NOTE 3.
SERVICE INSTALLATION, GROUND MOUNT	6 FT (1.8m) MINIMUM DISTANCE SEE NOTE 2	SHOULDER WIDTH + 6 FT (1.8m), MINIMUM 16 FT (4.9m) SEE NOTE 3.

NOTES:

1. CONTACT THE "AREA TRAFFIC SIGNAL MAINTENANCE AND OPERATIONS ENGINEER" FOR ASSISTANCE IN LOCATING THE TRAFFIC SIGNAL EQUIPMENT WHEN THERE ARE CONFLICTS WITH DITCHES OR THE MINIMUM OFFSET DISTANCES CANNOT BE MET.
2. MINIMUM DISTANCE FROM THE BACK OF CURB TO THE ROADWAY SIDE OF THE FOUNDATION.
3. MINIMUM DISTANCE FROM THE EDGE OF PAVEMENT TO THE ROADWAY SIDE OF THE FOUNDATION.
4. ANY CHANGES TO THE OFFSETS OF THE FOUNDATIONS, FROM THE MINIMUM DISTANCES LISTED IN THE "TRAFFIC SIGNAL EQUIPMENT OFFSET" CHART AND THE TRAFFIC SIGNAL INSTALLATION PLAN, COULD AFFECT THE PLACEMENT OF THE SIGNAL HEADS, PEDESTRIAN SIGNAL HEADS AND THE PEDESTRIAN PUSHBUTTONS. THE SIGNAL HEAD PLACEMENT ON THE MAST ARMS SHALL REMAIN AS PER THE TRAFFIC SIGNAL INSTALLATION PLAN AND THE "TRAFFIC SIGNAL MAST ARM AND SIGNAL POST" DETAIL ABOVE. THE PROPOSED MAST ARM LENGTHS MAY NEED TO BE REVISED TO MEET THE ABOVE REQUIREMENTS. THE PEDESTRIAN SIGNAL HEADS AND PEDESTRIAN PUSHBUTTONS MUST MEET THE REQUIREMENTS UNDER THE DETAILS ON THIS SHEET.

TS SHT NO. 3

FILE NAME = 04252-DTLS-TS05 - P03

USER NAME = pascencia

DESIGNED --

REVISED --

CHECKED --

DRAWN --

REVISED --

PLOT SCALE = 100.0000 / 1"

CHECKED --

REVISED --

PLOT DATE = 5/17/2016

REVISED --

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

DISTRICT ONE
STANDARD TRAFFIC SIGNAL DESIGN DETAILS

SCALE: NONE SHEET NO. 46 OF 108 SHEETS STA. TO STA.

F.A.U. RTE.

3754

SECTION

01-00098-00-RS

COUNTY

COOK

T5-05

CONTRACT NO. 61A03

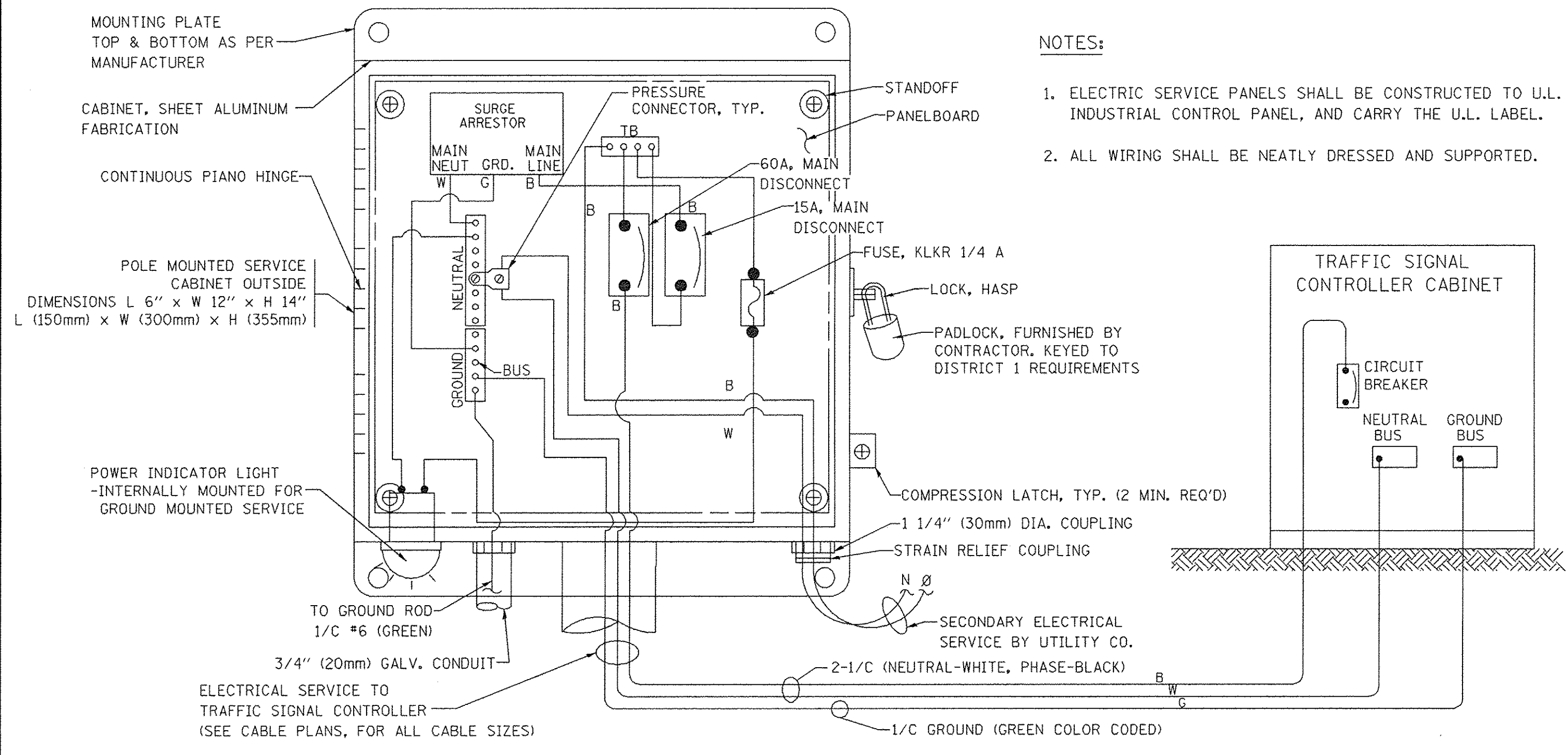
TOTAL SHEETS

108

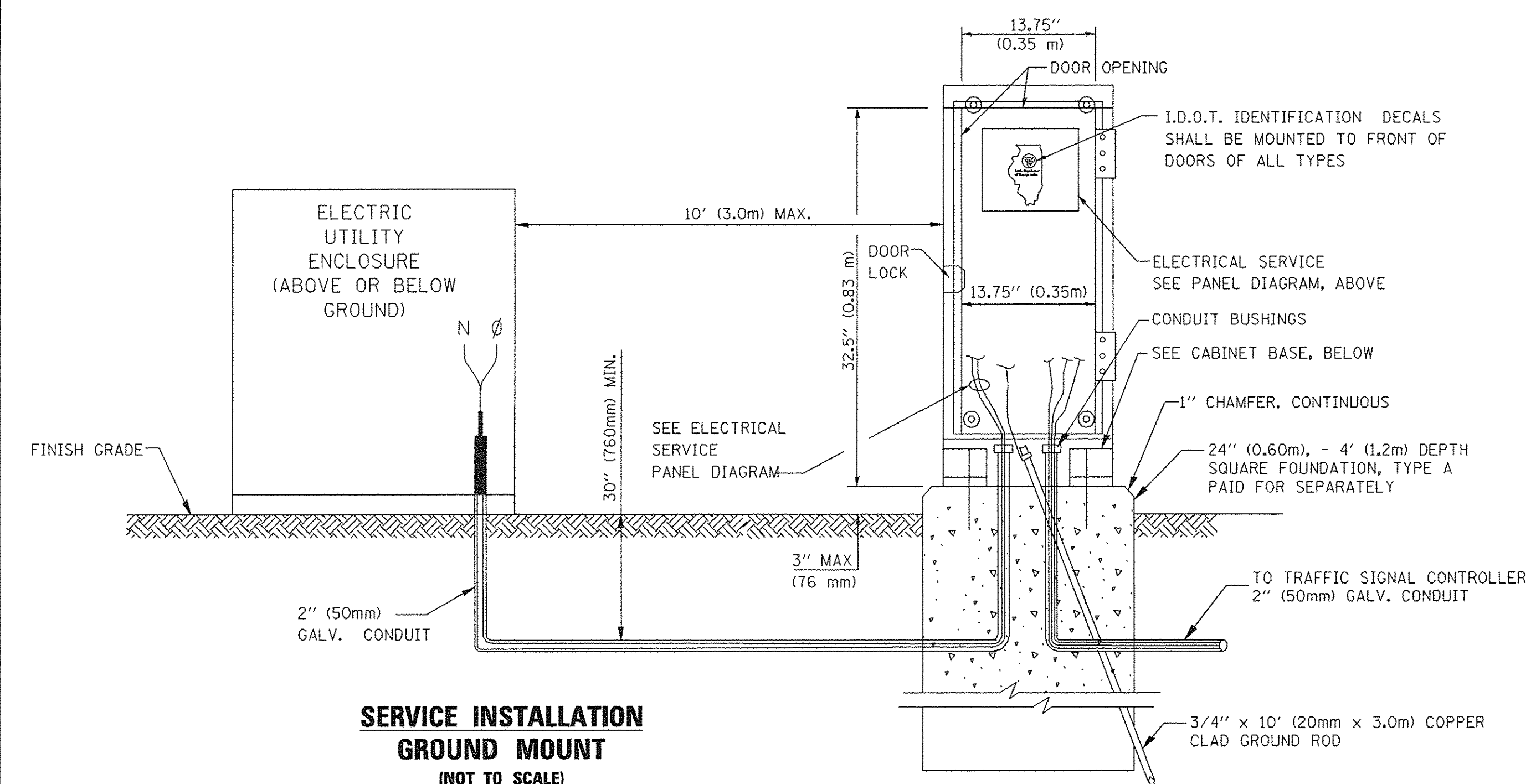
SHEET NO.

46

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

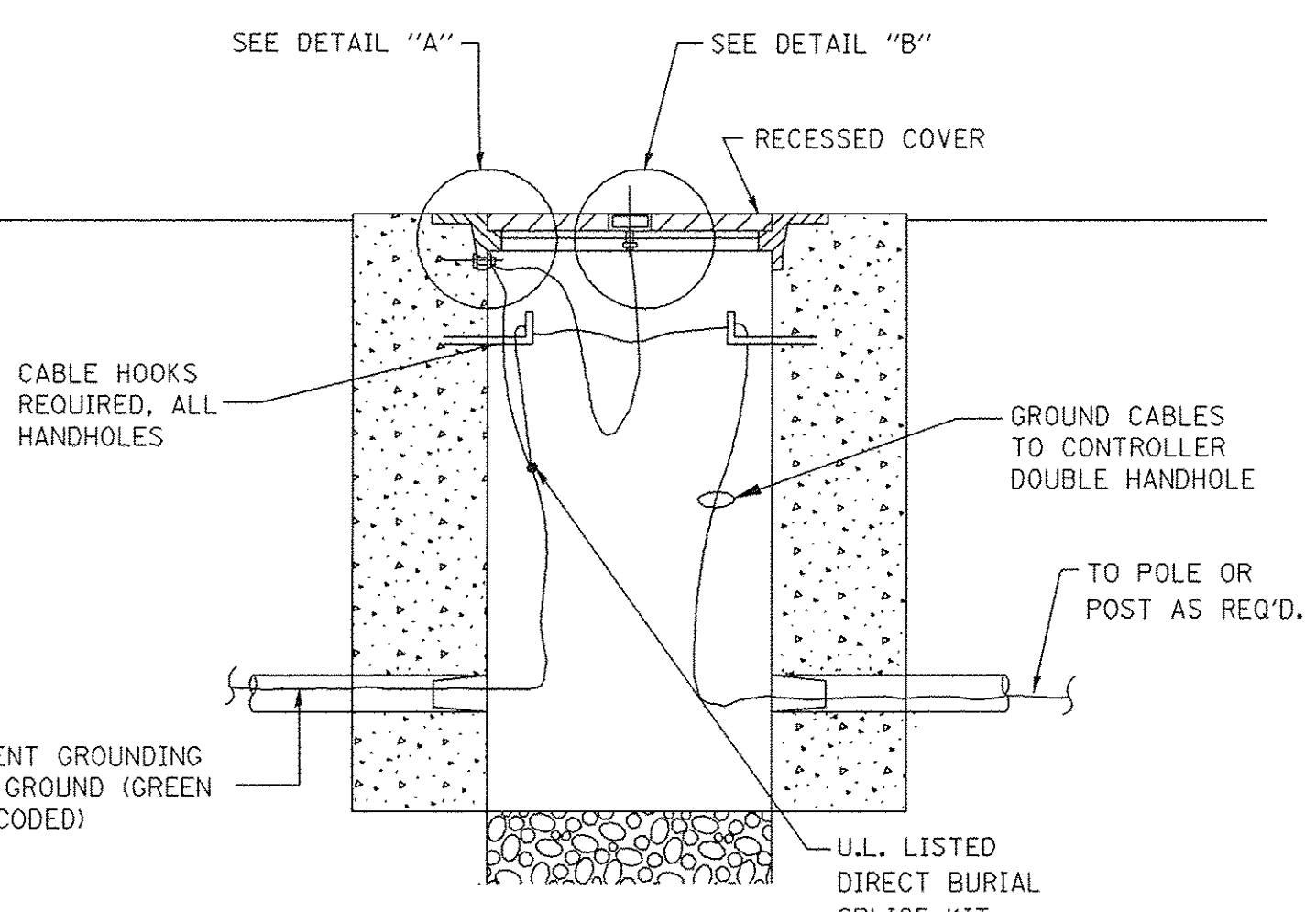
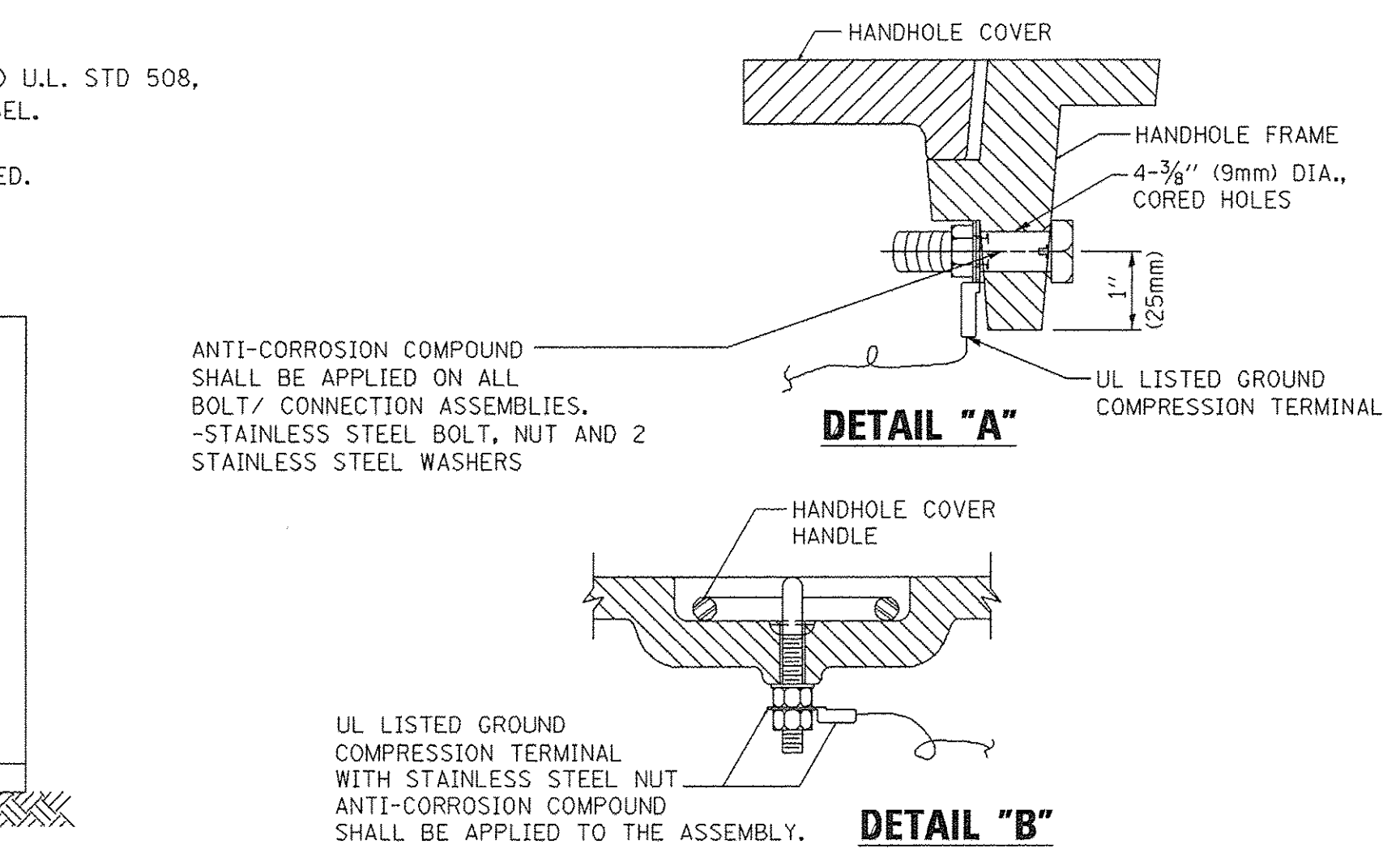
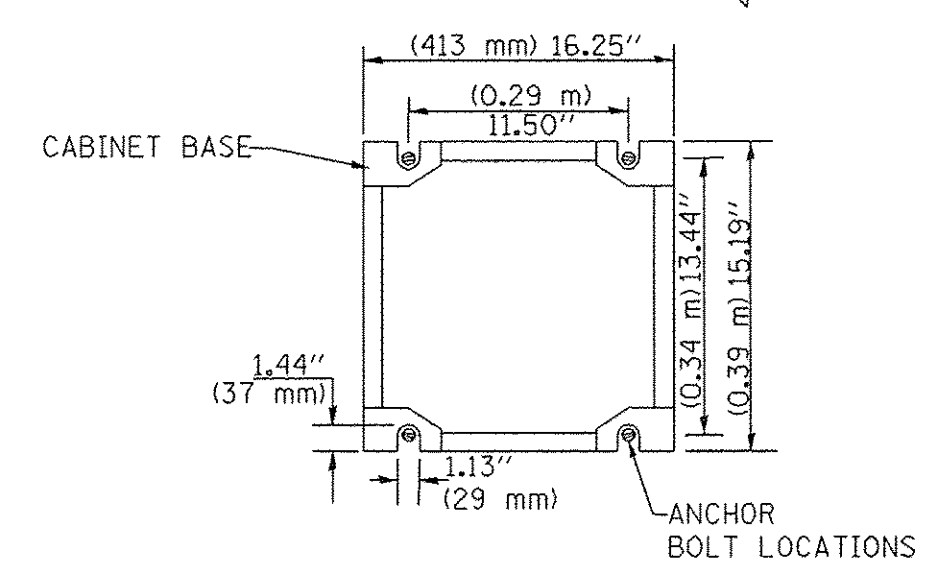


**ELECTRICAL SERVICE – PANEL DIAGRAM (TYPICAL FOR POLE AND GROUND MOUNTED SERVICE)
SERVICE INSTALLATION POLE MOUNT (SHOWN)
(NOT TO SCALE)**

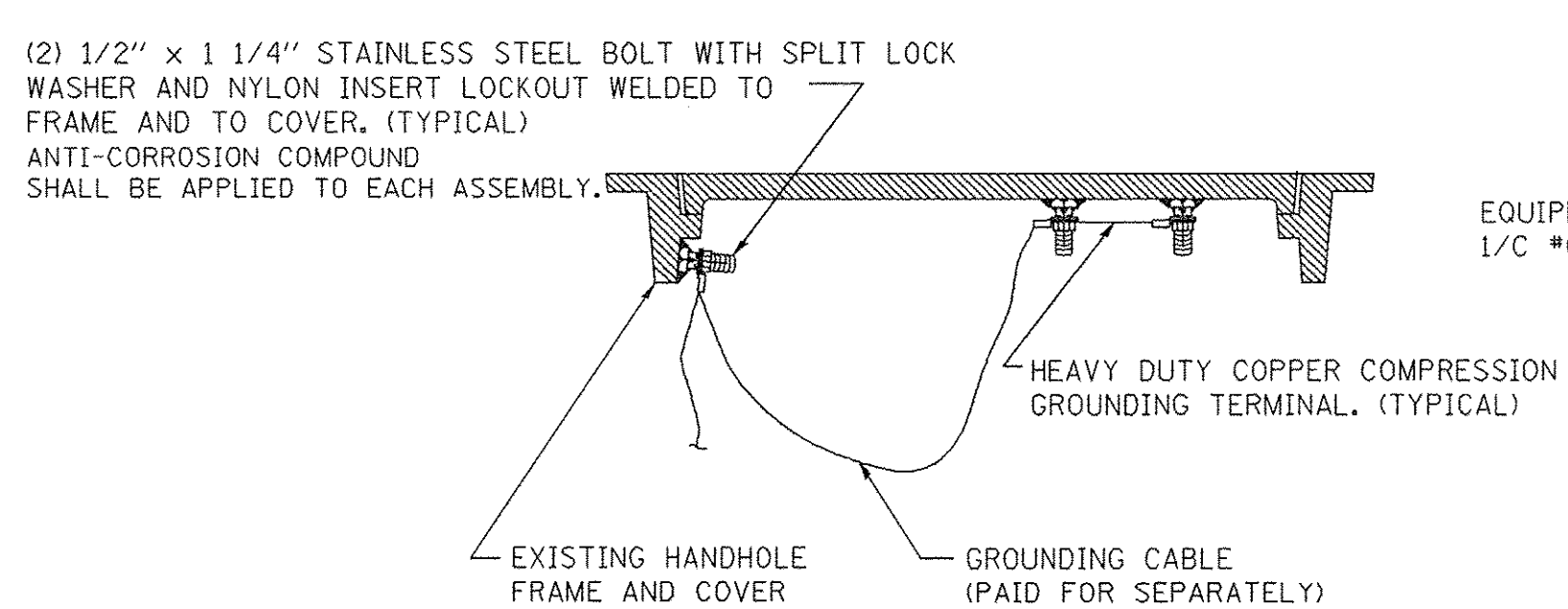


SERVICE INSTALLATION GROUND MOUNT (NOT TO SCALE)

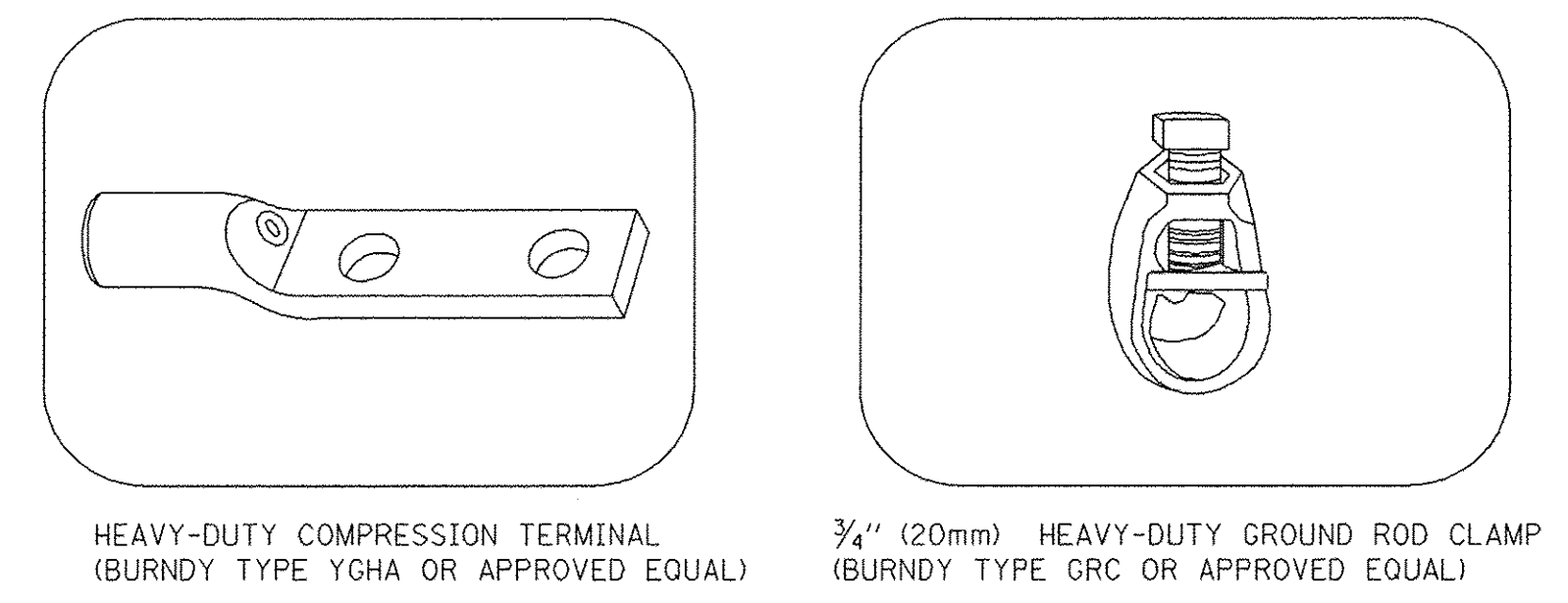
CABINET – BASE BOLT PATTERN (NOT TO SCALE)



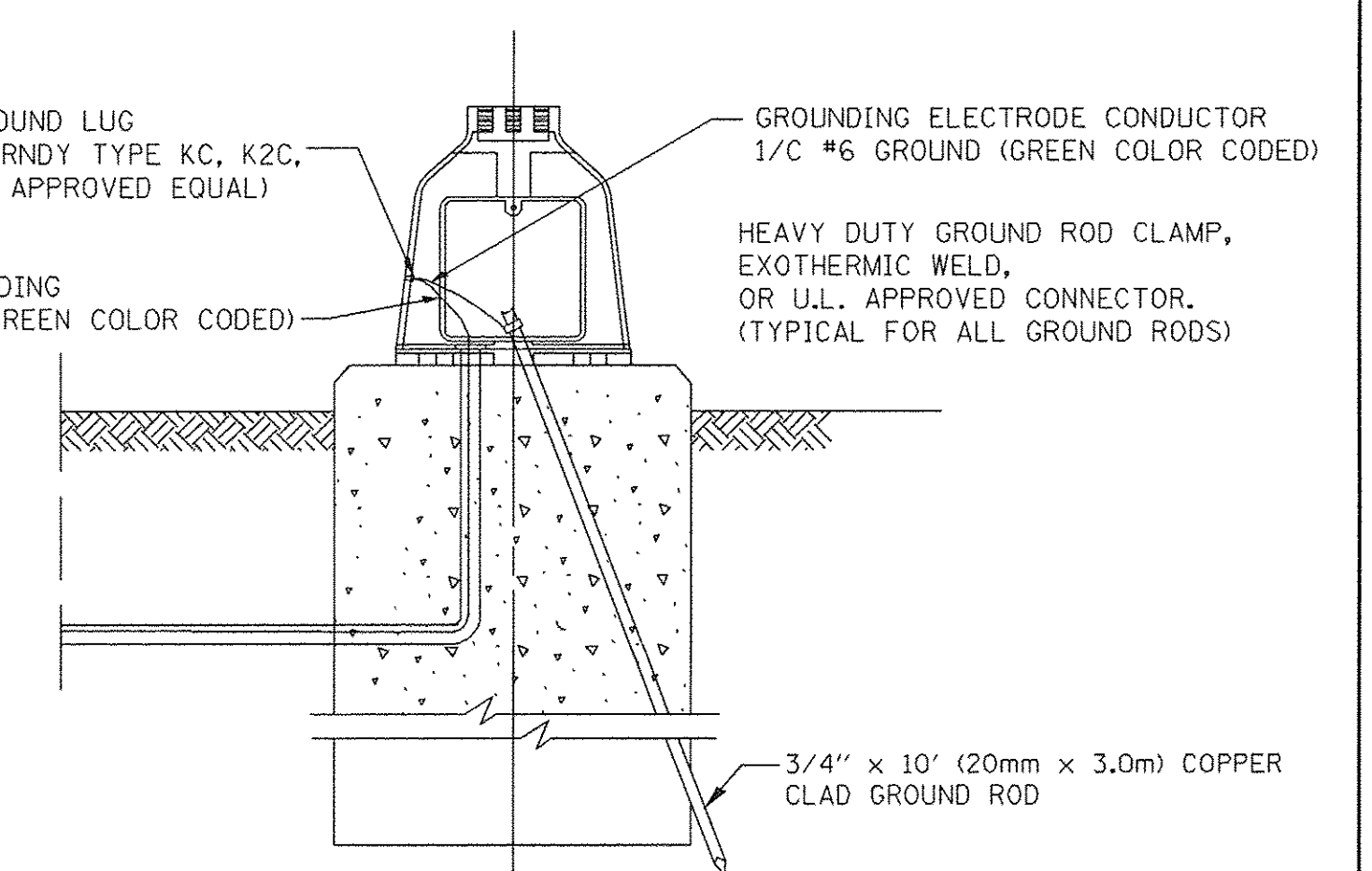
HANDHOLE COVER & FRAME – GROUNDING DETAIL (NOT TO SCALE)



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



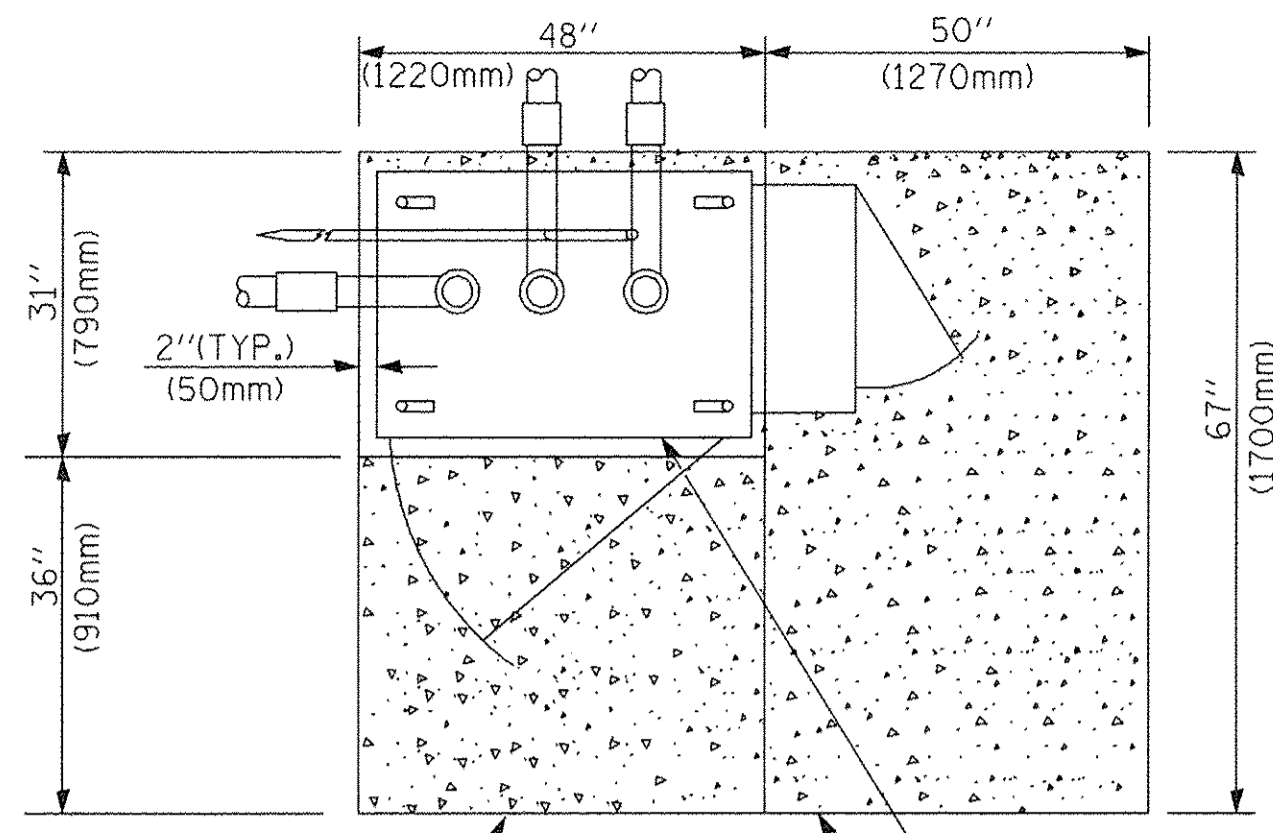
- NOTES:**
- ALL CLAMPS SHALL BE BRONZE OR COPPER, UL APPROVED.
 - GROUND CABLE SHALL BE LOOPED OVER HOOKS IN THE HANDHOLES
 - 6.5' (2.0m) SLACK SHALL BE PROVIDED IN SINGLE HANDHOLES
 - 13' (4.0m) OF SLACK SHALL BE PROVIDED IN DOUBLE HANDHOLES.
 - 5' (1.4m) OF SLACK SHALL BE PROVIDED BETWEEN FRAME AND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



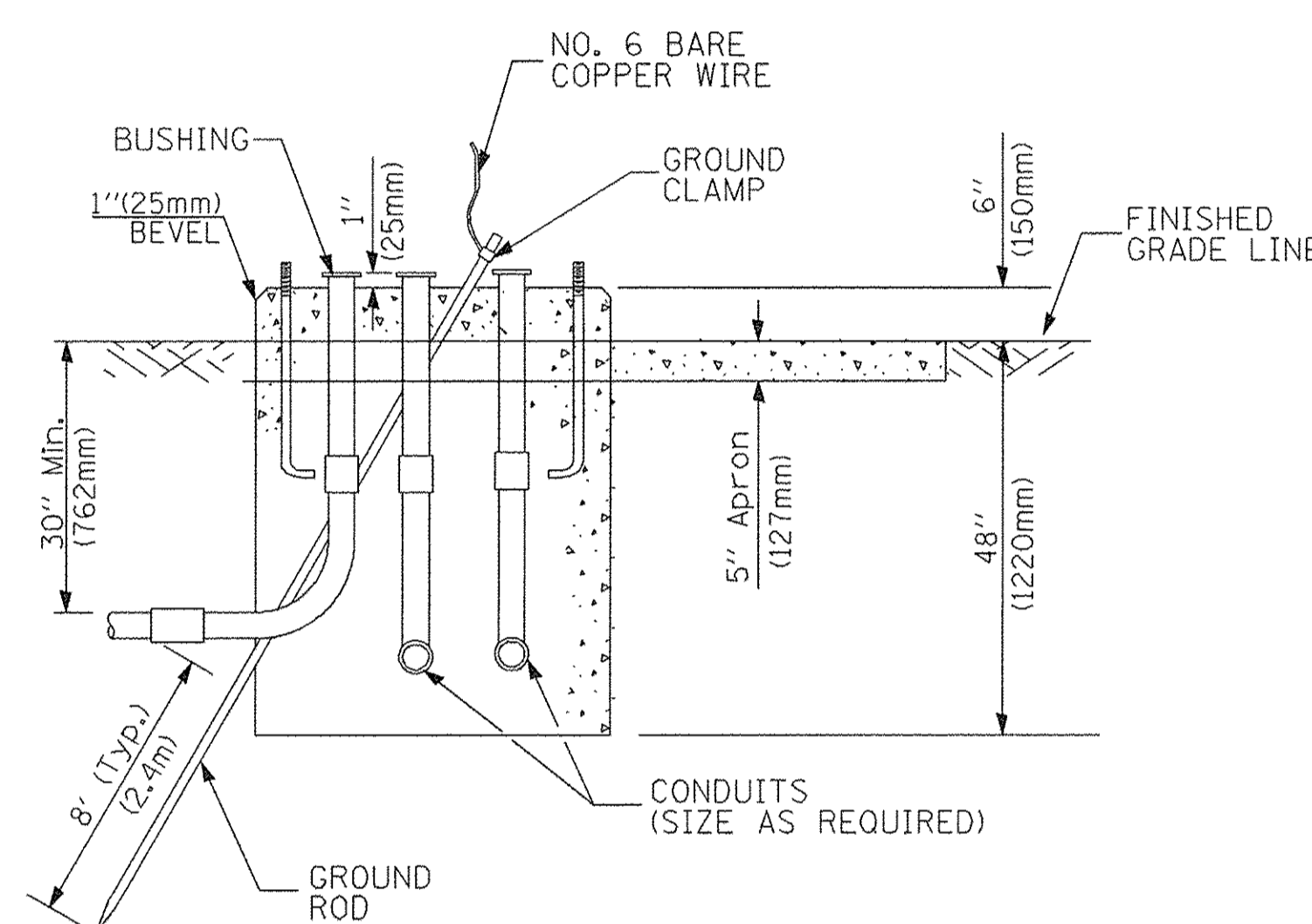
MAST ARM POLE / POST-GROUNDING DETAIL (NOT TO SCALE)

TS SHT NO. 4

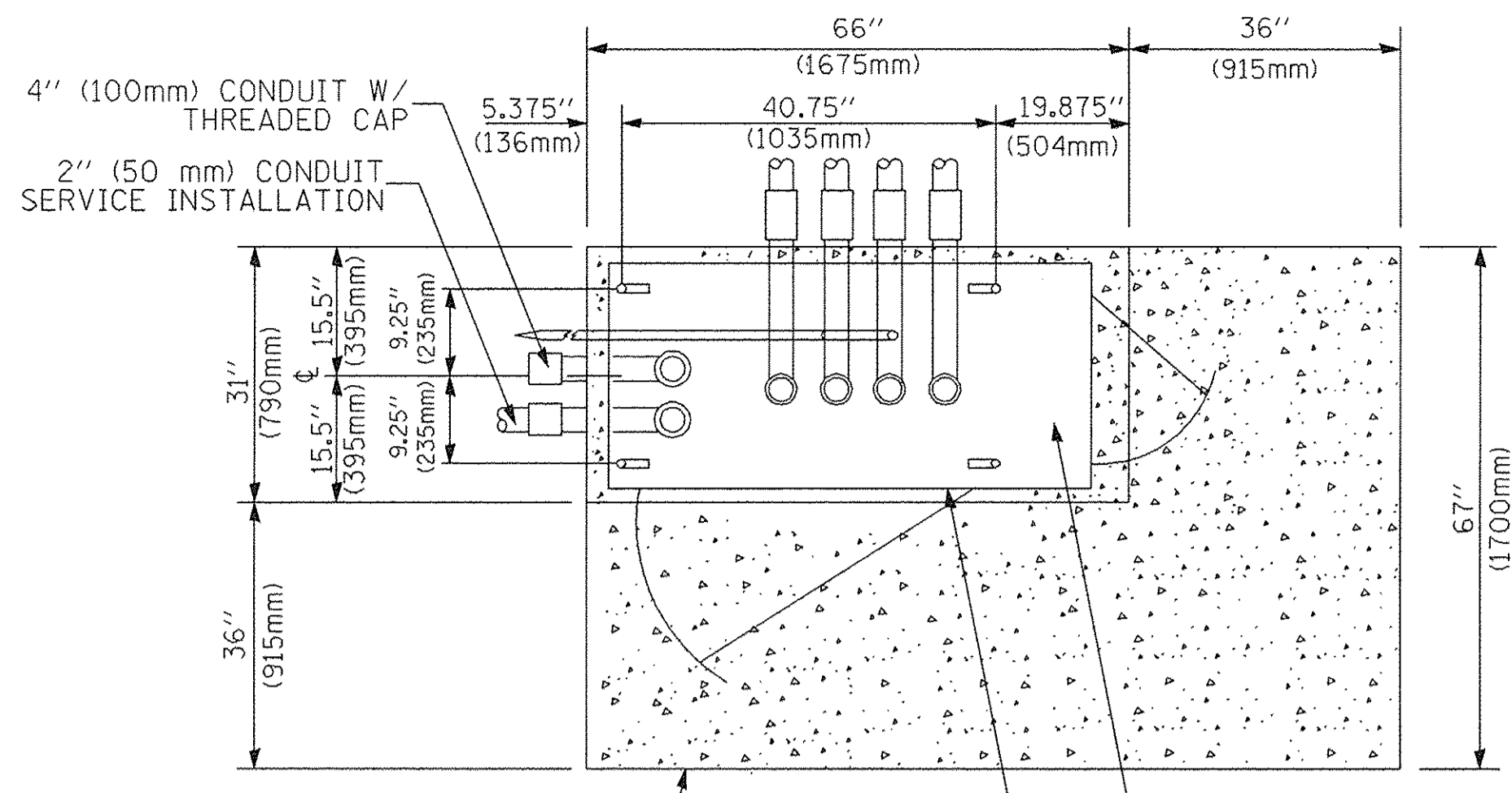
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	PLOT SCALE = 100.0000' / 1"	CHECKED =	REVISED =			3754	01-00098-00-RS	COOK	108	47	
	PLOT DATE = 5/17/2016	DRAWN =	REVISED =			TS-05		CONTRACT NO. 61A03			
		CHECKED =	REVISED =			SCALE: NONE	SHEET NO. 47 OF 108 SHEETS	STA. TO STA.	FED. ROAD DIST. NO. 1	ILLINOIS	FED. AID PROJECT



TOP VIEW

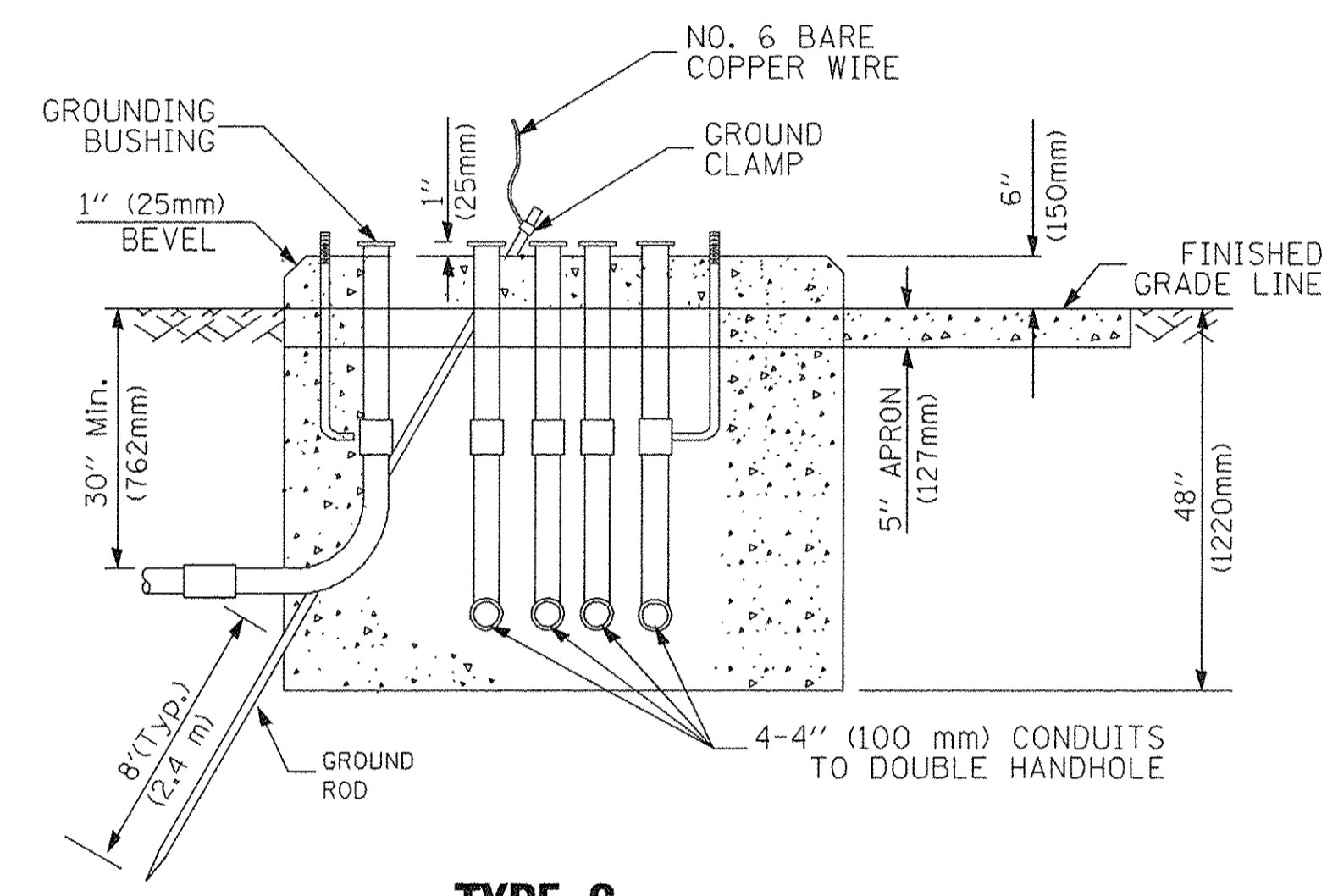


**TYPE D
FOR GROUND MOUNTED
CONTROLLER CABINET
AND UPS BATTERY CABINET**

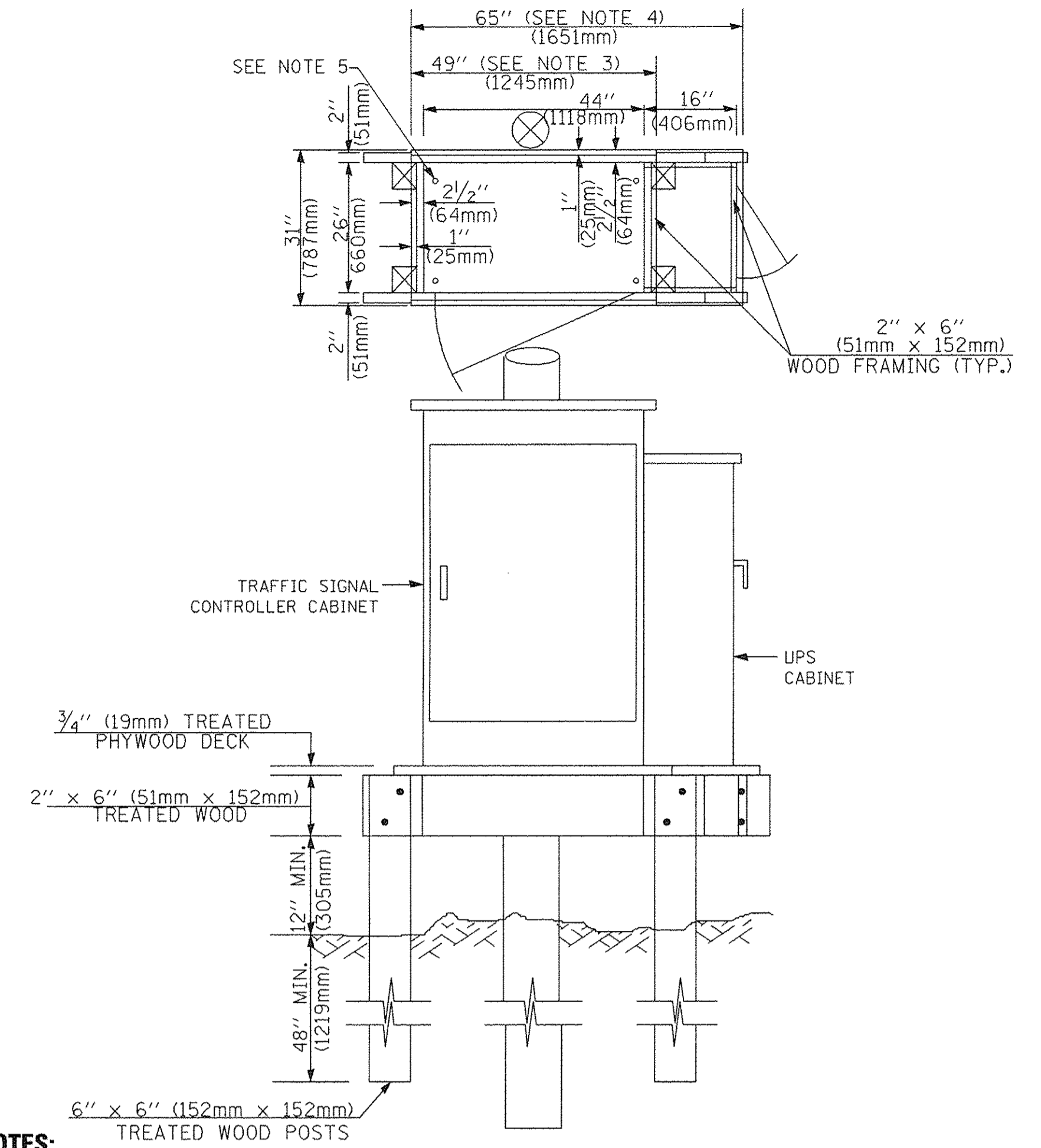


TOP VIEW

NOTE:
TOP OF FOUNDATION SHALL BE HIGHER THAN TOP OF DOUBLE HANDHOLE



**TYPE C
FOR GROUND MOUNTED
SUPER P (TYPE IV) AND SUPER R (TYPE V)
CONTROLLER CABINETS**



NOTES:

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

**TEMPORARY SIGNAL CONTROLLER
WOOD SUPPORT PLATFORM**

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

CABLE SLACK

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

VERTICAL CABLE LENGTH

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

DEPTH OF FOUNDATION

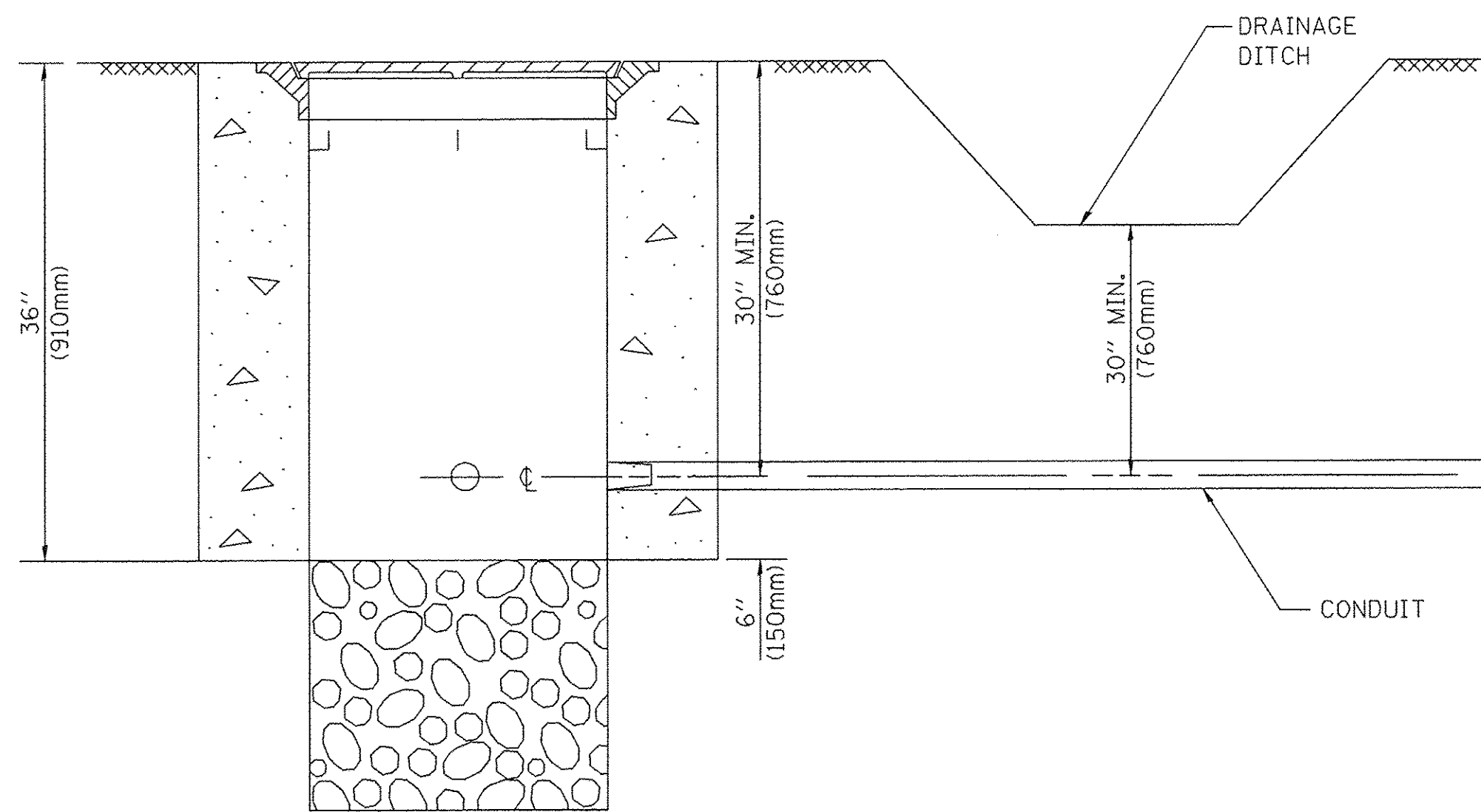
Mast Arm Length	① Foundation Depth	Foundation Diameter	Spiral Diameter	Quantity of Rebars	Size of Rebars
Less than 30' (9.1 m)	10'-0" (3.0 m)	30" (750mm)	24" (600mm)	8	6(19)
Greater than or equal to 30' (9.1 m) and less than 40' (12.2 m)	13'-6" (4.1 m)	30" (750mm)	24" (600mm)	8	6(19)
Greater than or equal to 40' (12.2 m) and less than 50' (15.2 m)	11'-0" (3.4 m)	36" (900mm)	30" (750mm)	12	7(22)
Greater than or equal to 50' (15.2 m) and up to 55' (16.8 m)	13'-0" (4.0 m)	36" (900mm)	30" (750mm)	12	7(22)
Greater than or equal to 56' (16.8 m) and less than 65' (19.8 m)	15'-0" (4.6 m)	36" (900mm)	30" (750mm)	12	7(22)
Greater than or equal to 65' (19.8 m) and up to 75' (22.9 m)	21'-0" (6.4 m)	42" (1060mm)	36" (900mm)	16	8(25)
Greater than or equal to 75' (22.9 m)	25'-0" (7.6 m)	42" (1060mm)	36" (900mm)	16	8(25)

NOTES:

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

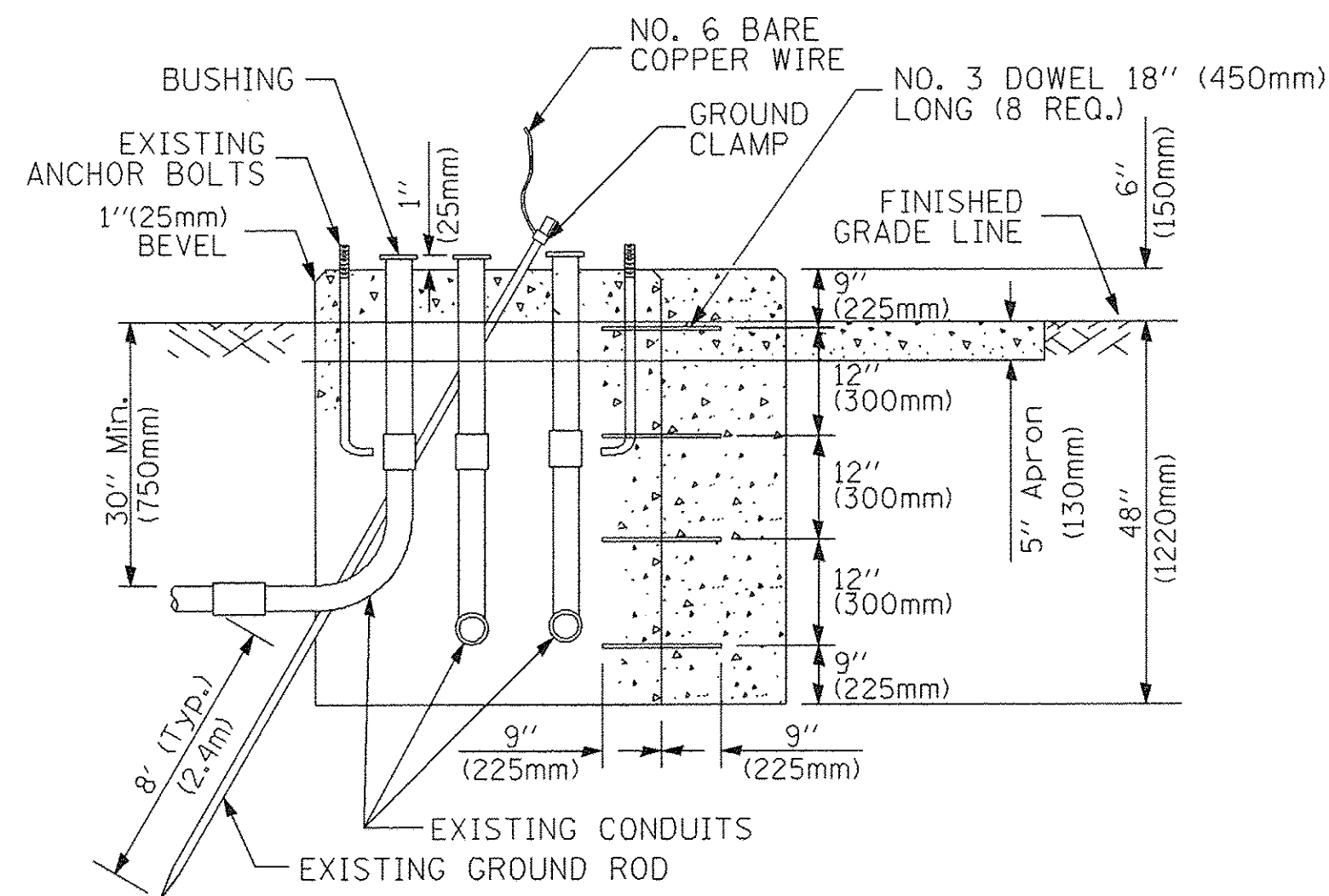
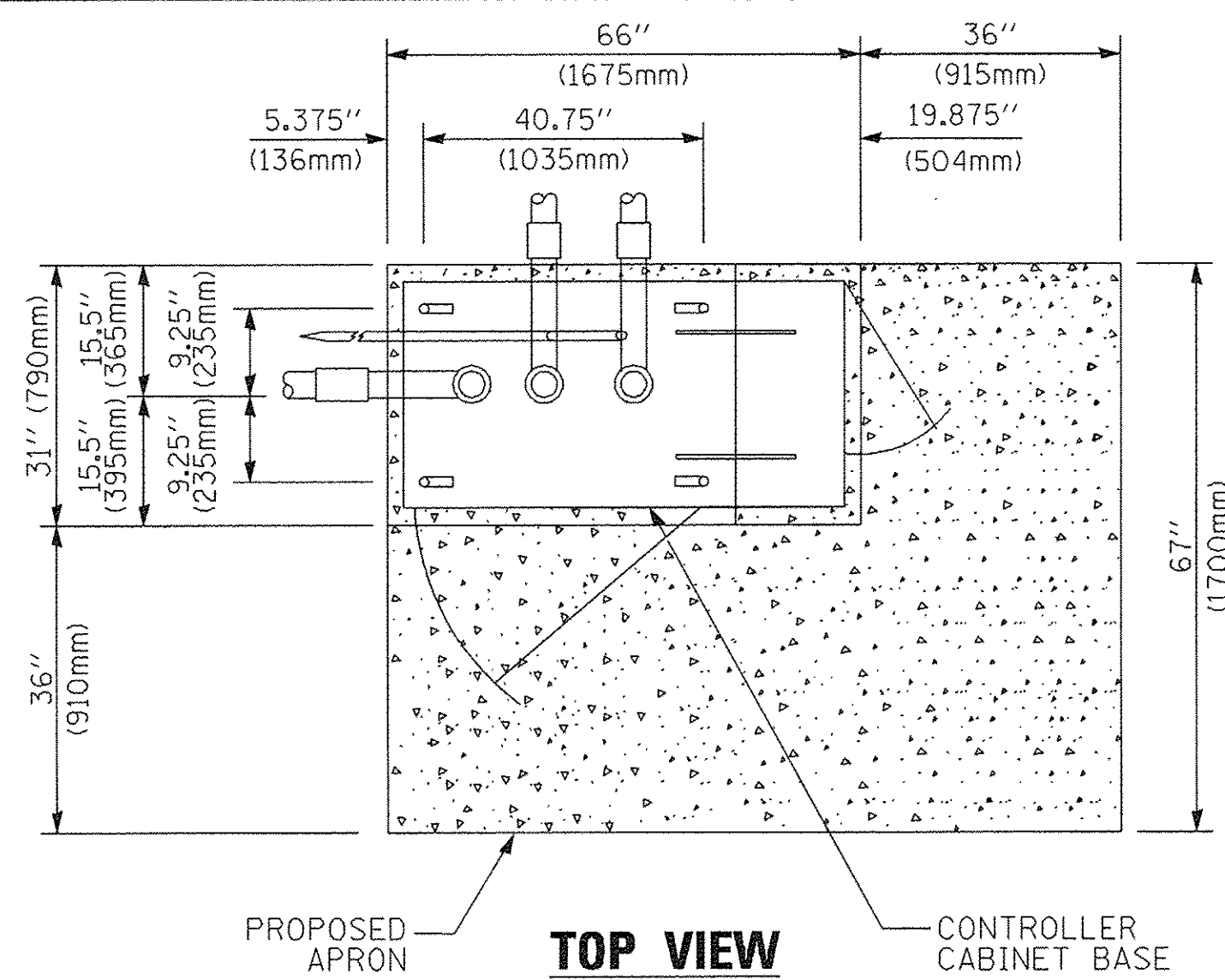
DEPTH OF MAST ARM FOUNDATIONS, TYPE E

TS SHT NO. 5



- NOTES:**
- CONDUIT DEPTH SHALL BE A MINIMUM OF 30" (760mm) BELOW THE BOTTOM OF THE DRAINAGE DITCH OR ANY SLOPING GROUND
 - THE MINIMUM CONDUIT DEPTH APPLIES TO ALL CONDUIT PLACED UNDER ROADWAY PAVEMENT, MULTI-USE PATHS, SIDEWALKS AND SOIL SURFACES.
 - THE MINIMUM CONDUIT DEPTH APPLIES TO ALL HANDHOLES, HEAVY DUTY HANDHOLES AND DOUBLE HANDHOLES.

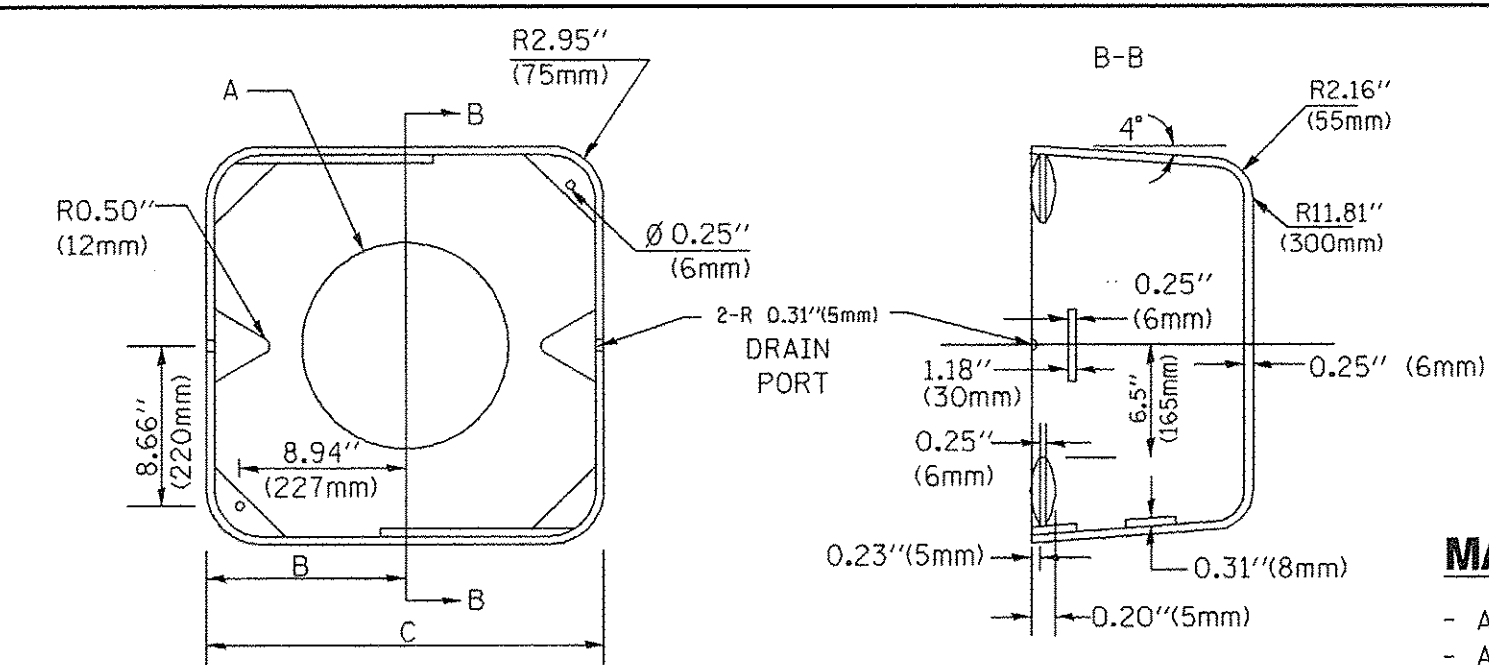
HANDHOLE WITH MINIMUM CONDUIT DEPTH
(NOT TO SCALE)



MODIFY EXISTING TYPE "D" FOUNDATION TO TYPE "C" FOUNDATION
(NOT TO SCALE)

ITEM NO.	IDENTIFICATION
1	OUTLET BOX- GALV. 21 CU.IN. (0.000344 CU-M)
2	LAMP HOLDER AND COVER
3	OUTLET BOX COVER
4	RUBBER COVER GASKET
5	REDUCING BUSHING
6	3/4" (19 mm) CLOSE NIPPLE
7	3/4" (19 mm) LOCKNUT
8	3/4" (19 mm) HOLE PLUG
9	SADDLE BRACKET - GALV.
10	6 WATT PAR 38 LED FLOOD LAMP
11	DETECTOR UNIT
12	POST CAP [18 FT. (5.4 m) POST MIN.]

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



MATERIAL:
- ASTM A36 STEEL
- ASTM A-123 HOT DIPPED GALVANIZED

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

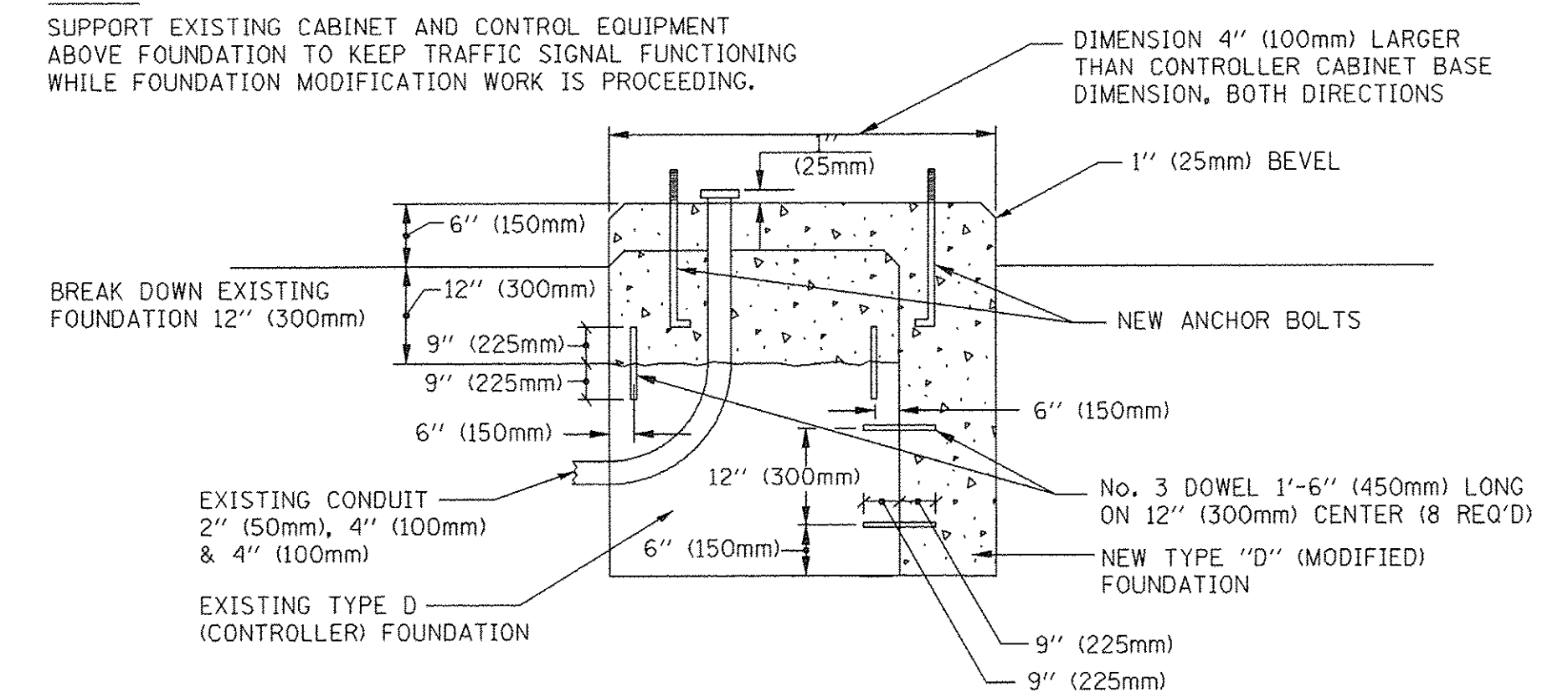
SHROUD

NOTES:

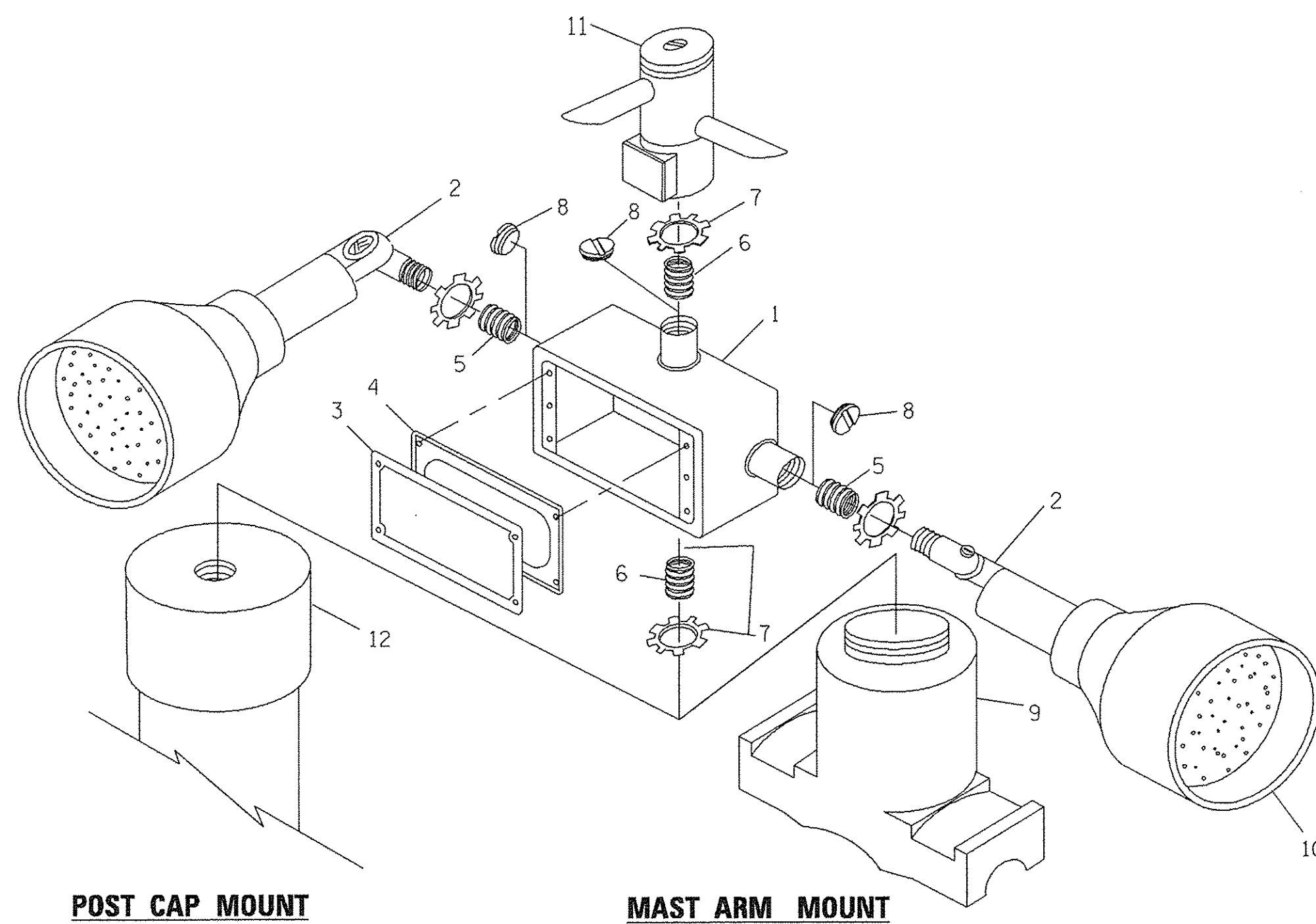
- DIMENSION "A" IS EQUAL TO THE DIAMETER OF THE MAST ARM POLE AT THE TOP OF THE SHROUD. THE SHROUD SHALL BE TIGHT TO THE MAST ARM POLE.
- THE SUPPLIER SHALL VERIFIED THE ABOVE DIMENSIONS BASED ON MAST ARM REQUIREMENTS.
- THE HEIGHT OF THE SHROUD SHALL COVER THE ANCHOR BOLTS, NUTS AND MAST ARM POLE BASE.

NOTE:

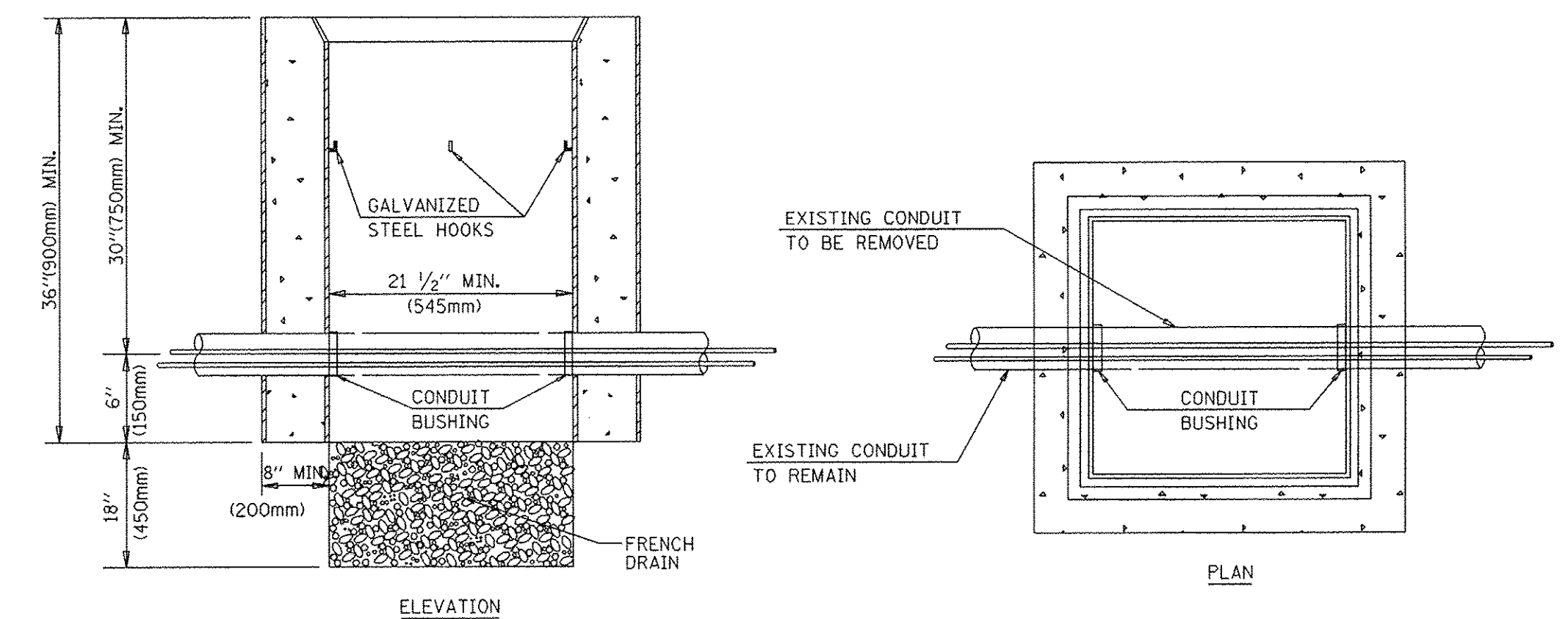
SUPPORT EXISTING CABINET AND CONTROL EQUIPMENT ABOVE FOUNDATION TO KEEP TRAFFIC SIGNAL FUNCTIONING WHILE FOUNDATION MODIFICATION WORK IS PROCEEDING.



MODIFY EXISTING TYPE "D" FOUNDATION



EMERGENCY VEHICLE DETECTOR WITH CONFIRMATION BEACON MOUNTING DETAIL



NOTES:

- HANDHOLE CONSTRUCTED PER STATE STANDARD 814001.
- REMOVAL OF THE EXISTING CONDUIT FROM THE HANDHOLE AND THE INSTALLATION OF THE CONDUIT BUSHINGS SHALL BE INCLUDED WITH THE COST OF THE HANDHOLE.

HANDHOLE TO INTERCEPT EXISTING CONDUIT

TS SHT NO. 6

FILE NAME = 04252-DTLS-TS05 - P06

USER NAME = plascencia	DESIGNED --	REVISED --
PLOT SCALE = 100.0000' / 1in.	CHECKED --	REVISED --
PLOT DATE = 5/17/2016	DRAWN --	REVISED --
	CHECKED --	REVISED --

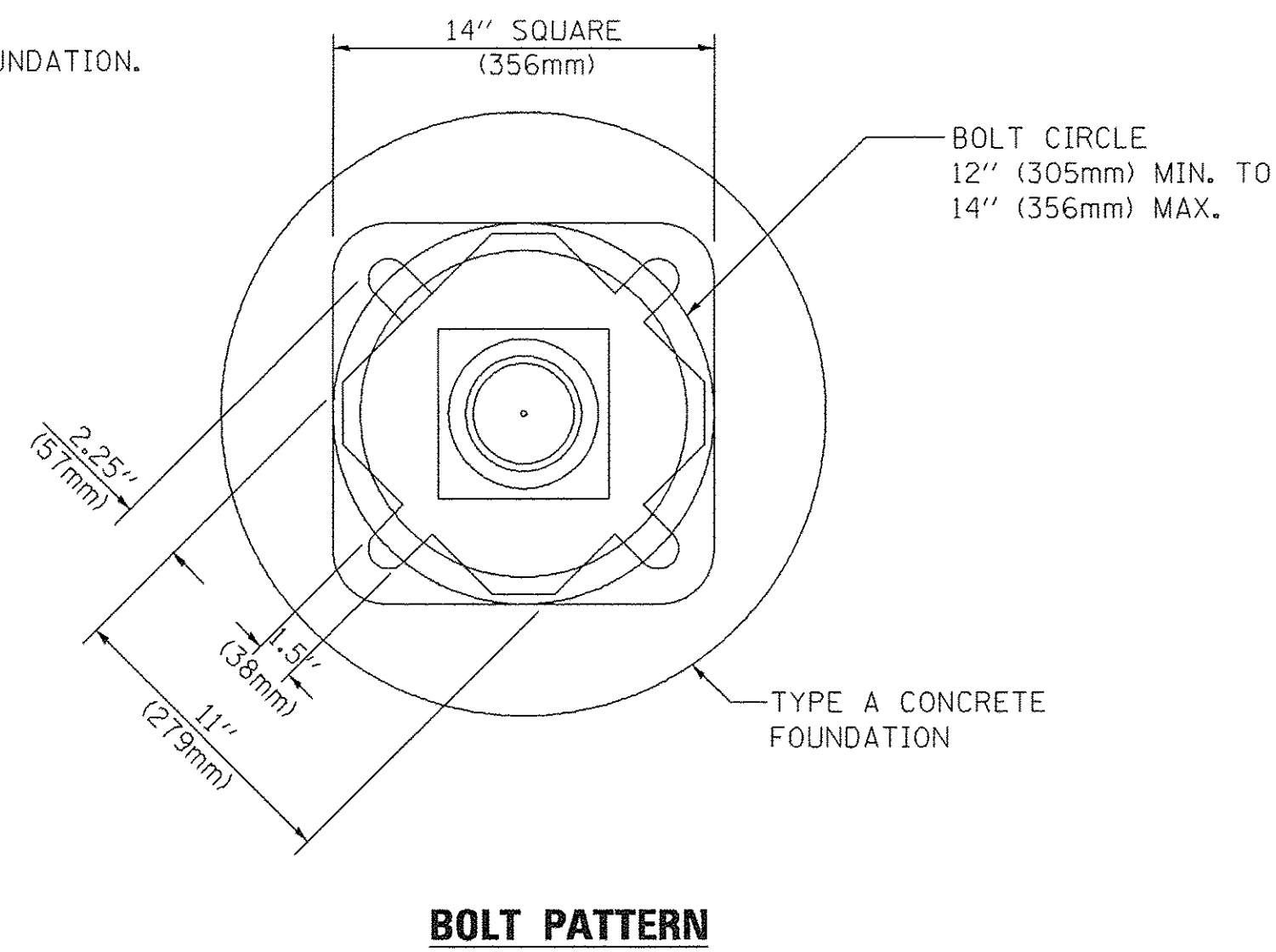
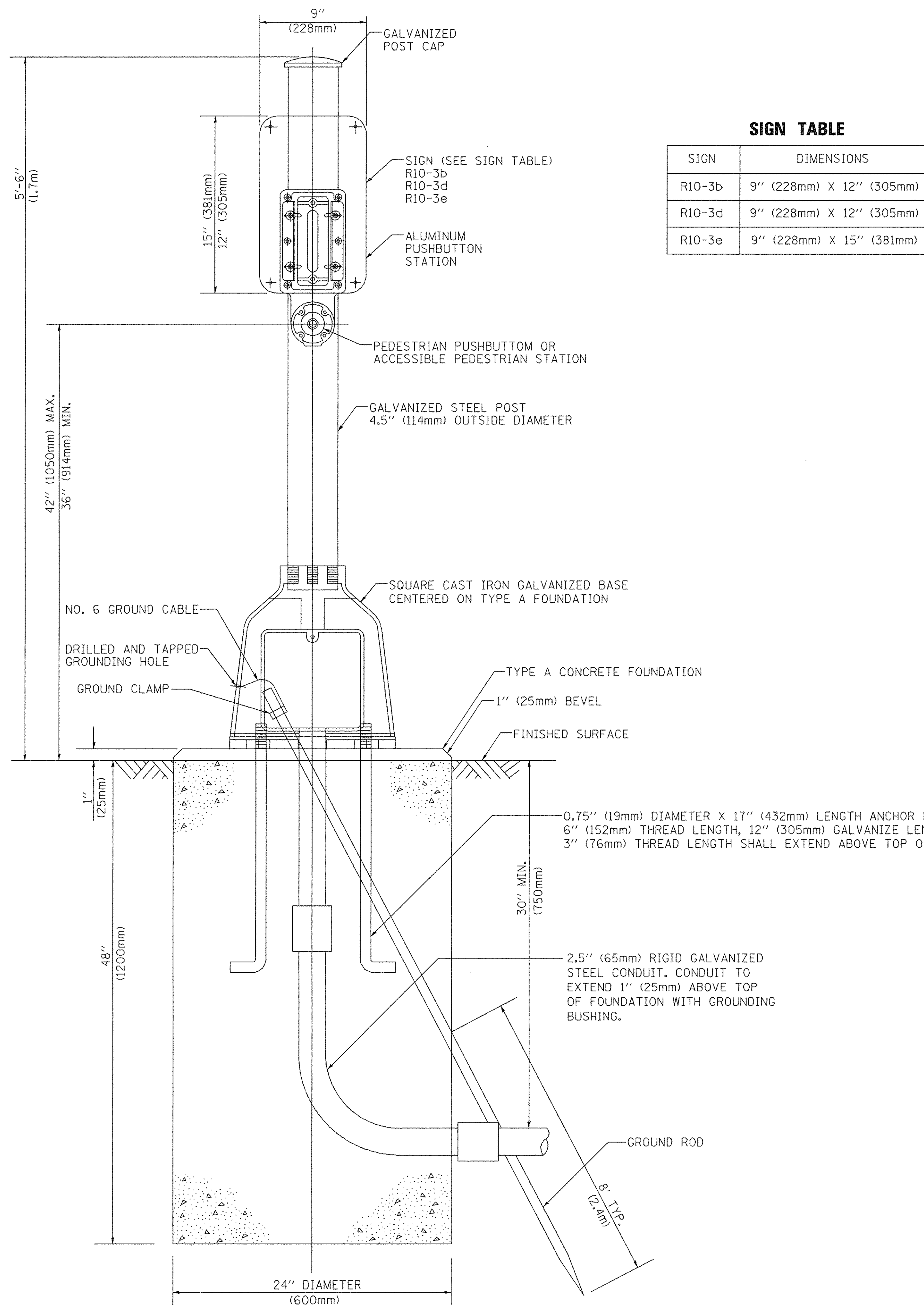
STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

DISTRICT ONE
STANDARD TRAFFIC SIGNAL DESIGN DETAILS

SCALE: NONE SHEET NO. 49 OF 108 SHEETS STA. TO STA.

F.A.U. RTE. 3754	SECTION 01-00098-00-RS	COUNTY COOK	TOTAL SHEETS 108	SHEET NO. 49
TS-05		CONTRACT NO. 61A03		
FED. ROAD DIST. NO. 1 ILLINOIS FED. AID PROJECT				

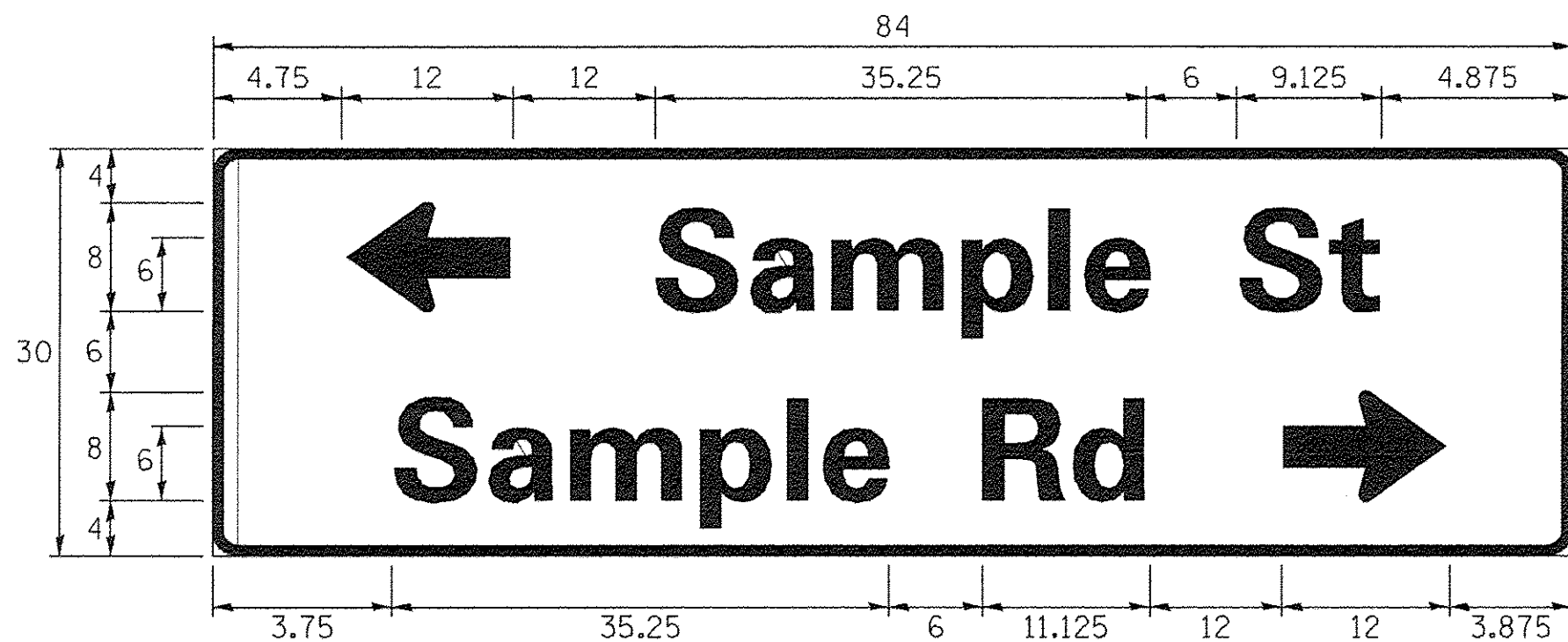
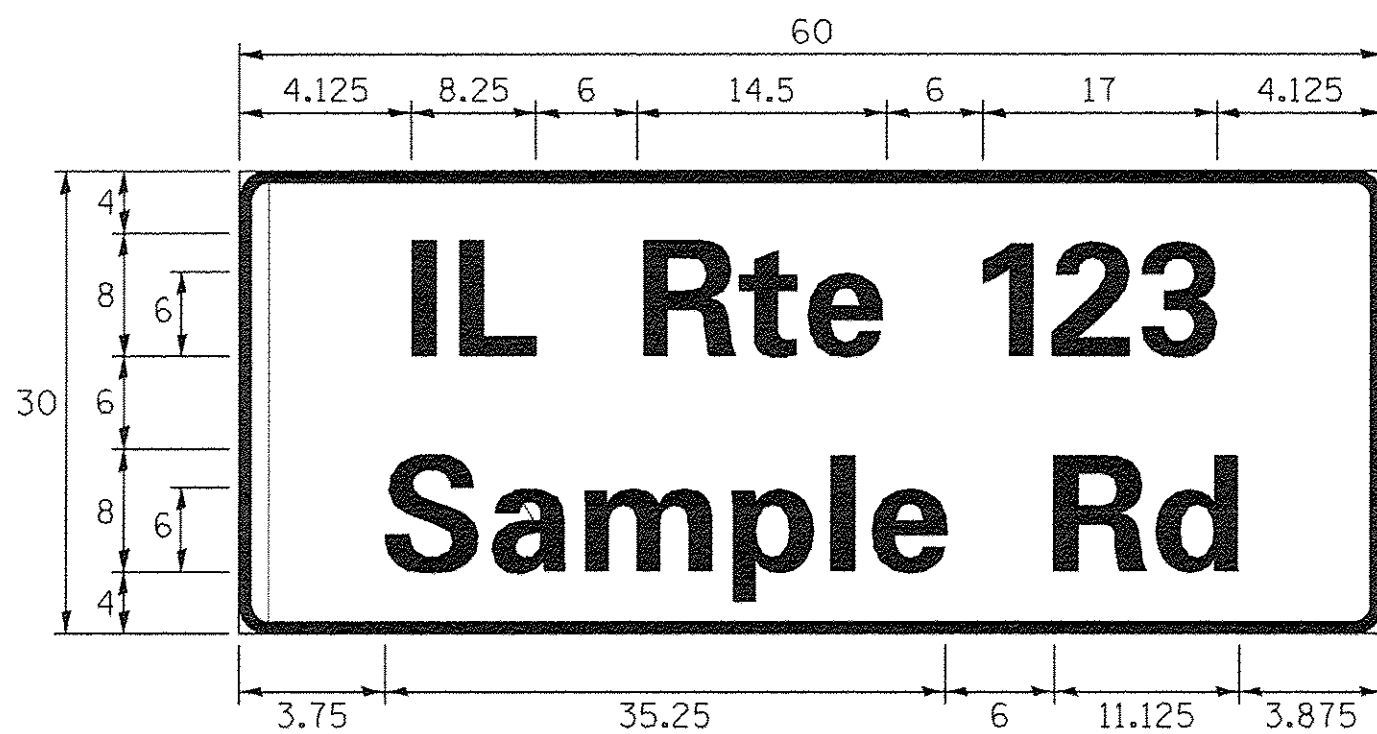
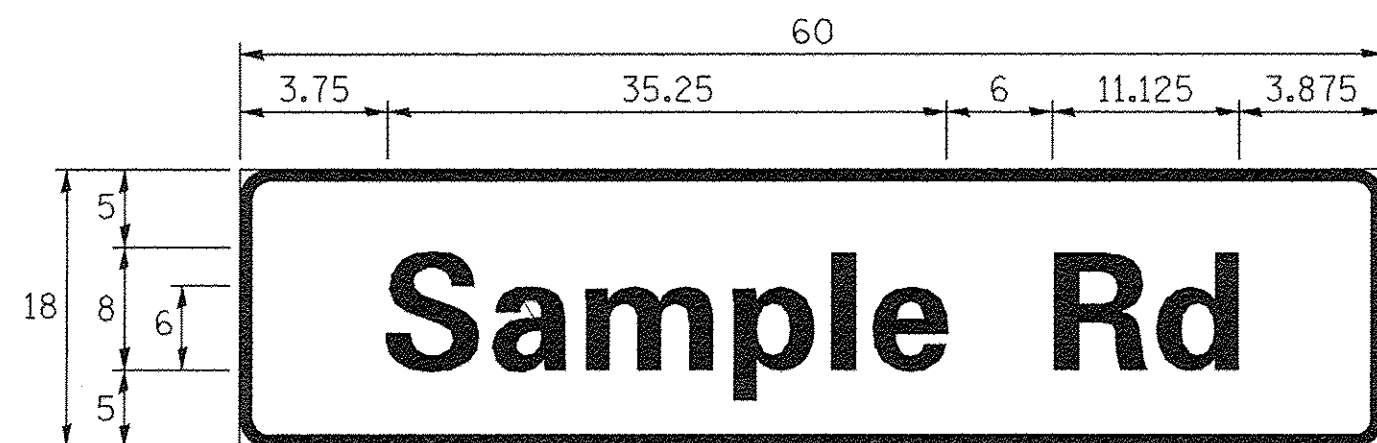
TS SHT NO. 7



BOLT PATTERN
PEDESTRIAN PUSH BUTTON POST, TYPE A

FILE NAME = 04252-DTLS-TS05 - P07	USER NAME = plascencia	DESIGNED —	REVISED —	STATE OF ILLINOIS DEPARTMENT OF TRANSPORTATION	DISTRICT ONE STANDARD TRAFFIC SIGNAL DESIGN DETAILS	F.A.U. RTE	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
	PLOT SCALE = 100.0000' / 1"	CHECKED —	REVISED —			3754	01-00098-00-RS	COOK	108	50
	PLOT DATE = 5/17/2016	DRAWN —	REVISED —			TS-05		CONTRACT NO. 61A03		
		CHECKED —	REVISED —			FED. ROAD DIST. NO. 1	ILLINOIS	FED. AID PROJECT		
SCALE: NONE						SHEET NO. 50 OF 108 SHEETS		STA. TO STA.		

SIGN PANEL – TYPE 1 OR TYPE 2



DESIGN SERIES	AREA (SQ FT)	SIGN PANEL TYPE	SHEETING TYPE	QTY. REQUIRED
D OR C	-	1 OR 2	ZZ	-

ALL DIMENSIONS ARE IN INCHES EXCEPT NOTED OTHERWISE

COMMON STREET NAME ABBREVIATIONS AND WIDTHS

NAME	ABBREVIATION	WIDTH (INCH)	
		SERIES "C"	SERIES "D"
AVENUE	Ave	15.000	18.250
BOULEVARD	Blvd	17.125	20.000
CIRCLE	Cir	11.125	13.000
COURT	Ct	8.250	9.625
DRIVE	Dr	8.625	10.125
HIGHWAY	Hwy	18.375	22.000
ILLINOIS	IL	7.000	8.250
LANE	Ln	9.125	10.750
PARKWAY	Pkwy	23.375	27.375
PLACE	Pl	7.125	7.750
ROAD	Rd	9.625	11.125
ROUTE	Rte	12.625	14.500
STREET	St	8.000	9.125
TERRACE	Ter	12.625	14.625
TRAIL	Tr	7.750	9.125
UNITED STATES	US	10.375	12.250

GENERAL NOTES

- WHERE MAST ARM MOUNTED STREET NAME SIGNS ARE SPECIFIED, THE MAST ARM ASSEMBLY AND POLES SHALL BE DESIGNED TO SUPPORT THE LOADINGS CALLED FOR ON STANDARDS 877001, 877002, 877006, 877011 AND 877012, AS APPLICABLE, PLUS TWO (2) SIGN PANELS 2'-6" X 8'-0" MOUNTED AS SHOWN. THE DESIGN SHALL BE IN ACCORDANCE WITH THE REQUIREMENTS OF THE CURRENT "STANDARD SPECIFICATIONS FOR STRUCTURAL SUPPORTS FOR HIGHWAY SIGNS, LUMINAIRES, AND TRAFFIC SIGNALS" AS PUBLISHED BY THE AMERICAN ASSOCIATION OF STATE HIGHWAY AND TRANSPORTATION OFFICIALS FOR 80 M.P.H. WIND VELOCITY.
- ALL SIGNS SHALL CONSIST OF A WHITE LEGEND AND BORDER (TYPE ZZ SHEETING) ON A GREEN BACKGROUND (TYPE ZZ SHEETING)
- THE SIGN LENGTH SHALL BE IN 6-INCH INCREMENTS, BUT THE OVERALL LENGTH SHALL NOT EXCEED 8'-0". ALL BORDERS SHALL BE 3/4" WIDE. CORNER RADIUS SHALL BE 1-7/8". THE SPACING BETWEEN THE WORDS SHOULD BE 6", IF POSSIBLE, BUT MAY BE REDUCED TO 5" WHEN SPACING IS CRITICAL. A MINIMUM OF 2-1/2" SHALL BE INCLUDED BETWEEN THE WORD AND THE RIGHT AND LEFT EDGES OF THE SIGN.
- A PREFERRED METHOD FOR THE SIGN DESIGN IS TO USE SERIES "D" LETTER ON A ONE-LINE SIGN 18" IN HEIGHT AND A MAXIMUM OF 8'-0" IN WIDTH. IF SERIES "D" DOES NOT FIT ON A 8'-0" SIGN, THEN SERIES "C" SHOULD BE TRIED. IF SERIES "C" DOES NOT FIT ON A 8'-0" SIGN, A 30" HIGH TWO-LINE SIGN CAN BE USED. THE CROSSROAD DESIGNATION AS TO STREET, AVENUE, ETC. SHOULD BE SPELLED OUT ON THE SECOND LINE, IF THE ABBREVIATION CANNOT FIT ON THE FIRST LINE.
- LED ILLUMINATED STREET NAME SIGNS CAN BE USED IN PLACE OF REGULAR SIGN PANELS BUT ANY SPECIAL WORDING AND SYMBOLOGY MUST BE APPROVED BY THE DEPARTMENT. GENERAL DESIGN REQUIREMENT AS LISTED ABOVE (COLOR, FONT, SIZE, ETC.) MUST BE FOLLOWED.
- SIGNFIX ALUMINUM CHANNEL FRAMING SYSTEM SHALL BE USED FOR ALL SIGNS ATTACHED TO SIGNAL POLES AND POSTS.

LOCAL SUPPLIERS:

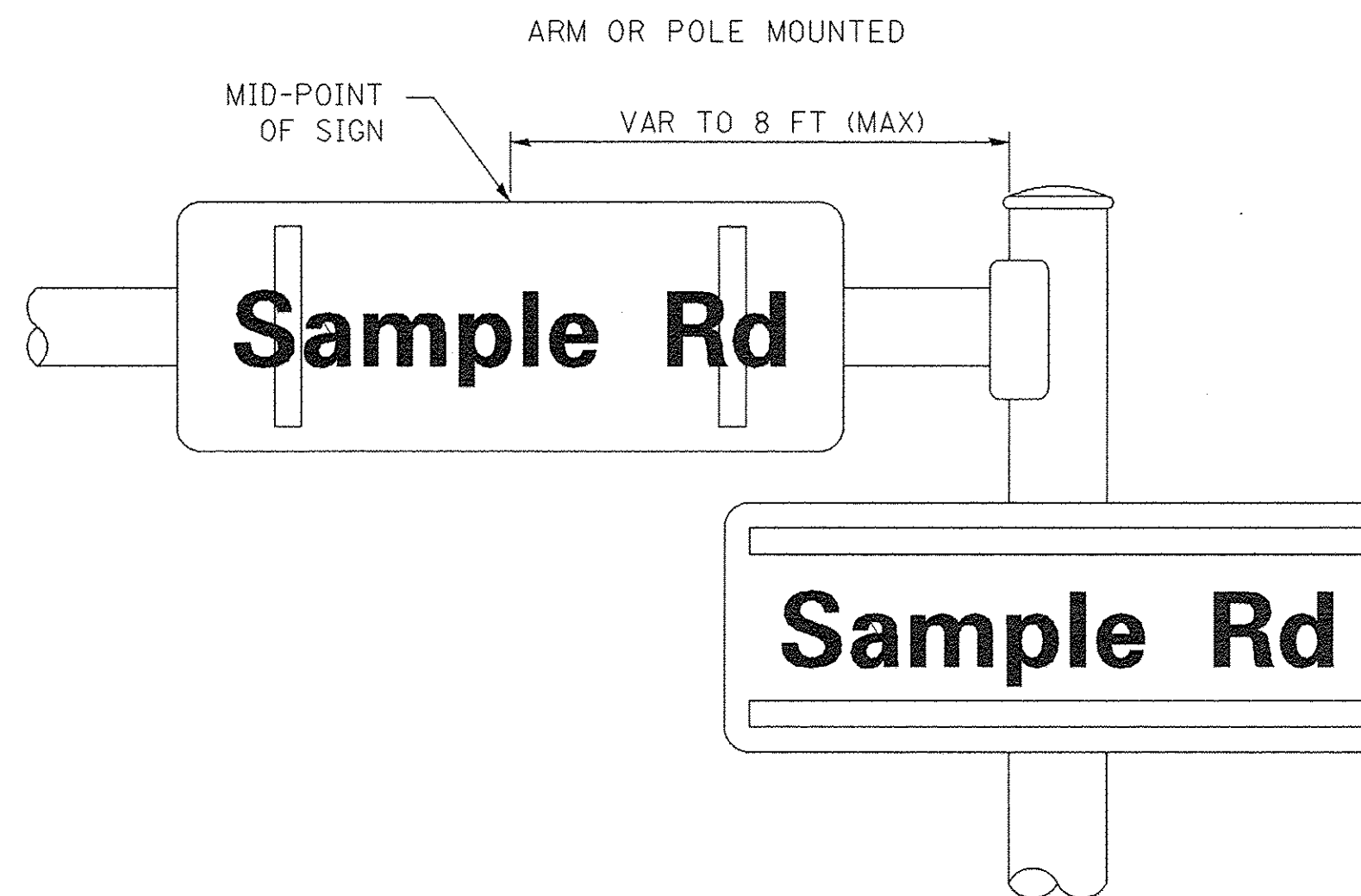
- J.O. HERBERT COMPANY, INC
MIDLOTHIAN, VA
- WESTERN REMAC, INC.
WOODRIDGE, IL

PARTS LISTING:

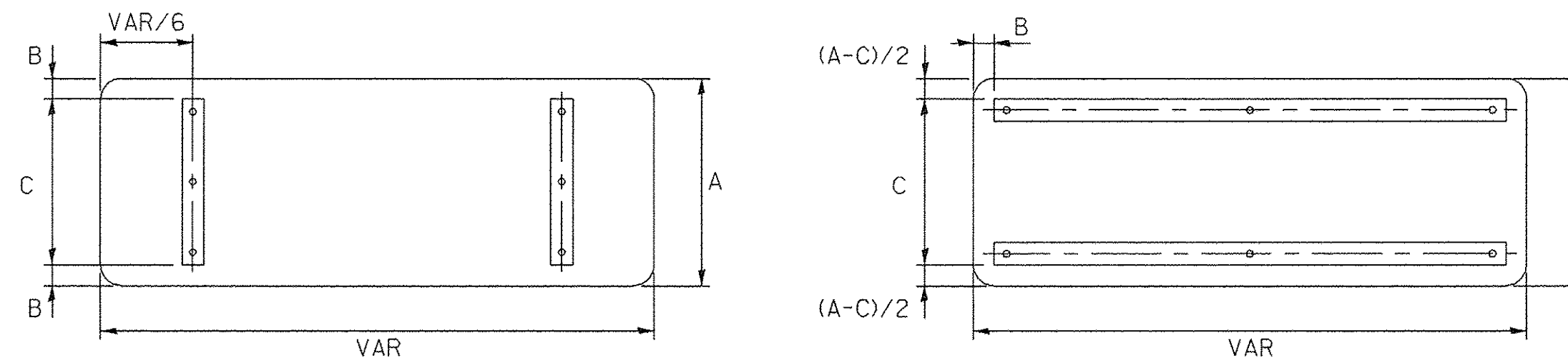
- SIGN CHANNEL PART #HPN053 (MED. CHANNEL)
- SIGN SCREWS 1/4" x 14 x 1" H.W.H. #3
- BRACKETS PART #HPN034 (UNIVERSAL)
- CHANNEL CLAMPS WITH STAINLESS STEEL STRAPPING

OTHER BRANDS OF MOUNTING HARDWARE ARE ACCEPTABLE, BASED UPON THE DEPARTMENT'S APPROVAL AND COMPATIBILITY WITH THE CHANNEL/BACKET OF THE ABOVE PRODUCT.

MOUNTING LOCATION



SUPPORTING CHANNELS



A	B	C
18"	2"	14"
30"	2"	24"

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

STANDARD ALPHABETS SPACING CHART

(8") UPPER CASE AND (6") LOWER CASE

FHWA SERIES "C"				FHWA SERIES "D"			
CHARACTER	LEFT SPACING (INCH)	WIDTH (INCH)	RIGHT SPACING (INCH)	CHARACTER	LEFT SPACING (INCH)	WIDTH (INCH)	RIGHT SPACING (INCH)
A	0.240	5.122	0.240	A	0.240	6.804	0.240
B	0.880	4.482	0.480	B	0.960	5.446	0.400
C	0.720	4.482	0.720	C	0.800	5.446	0.800
D	0.880	4.482	0.720	D	0.960	5.446	0.800
E	0.880	4.082	0.480	E	0.960	4.962	0.400
F	0.880	4.082	0.240	F	0.960	4.962	0.240
G	0.720	4.482	0.720	G	0.800	5.446	0.800
H	0.880	4.482	0.880	H	0.960	5.446	0.960
I	0.880	1.120	0.880	I	0.960	1.280	0.960
J	0.240	4.082	0.880	J	0.240	5.122	0.960
K	0.880	4.482	0.480	K	0.960	5.604	0.400
L	0.880	4.082	0.240	L	0.960	4.962	0.240
M	0.880	5.284	0.880	M	0.960	6.244	0.960
N	0.880	4.482	0.880	N	0.960	5.446	0.960
O	0.720	4.722	0.720	O	0.800	5.684	0.800
P	0.880	4.482	0.720	P	0.960	5.446	0.240
Q	0.720	4.722	0.720	Q	0.800	5.684	0.800
R	0.880	4.482	0.480	R	0.960	5.446	0.400
S	0.480	4.482	0.480	S	0.400	5.446	0.400
T	0.240	4.082	0.240	T	0.240	4.962	0.240
U	0.880	4.482	0.880	U	0.960	5.446	0.960
V	0.240	4.962	0.240	V	0.240	6.084	0.240
W	0.240	6.084	0.240	W	0.240	7.124	0.240
X	0.240	4.722	0.240	X	0.400	5.446	0.400
Y	0.240	5.122	0.240	Y	0.240	6.884	0.240
Z	0.480	4.482	0.480	Z	0.400	5.446	0.400
a	0.320	3.842	0.640	a	0.400	4.562	0.720
b	0.720	4.082	0.480	b	0.800	4.802	0.480
c	0.480	4.002	0.240	c	0.480	4.722	0.240
d	0.480	4.082	0.720	d	0.480	4.802	0.800
e	0.480	4.082	0.320	e	0.480	4.722	0.320
f	0.320	2.480	0.160	f	0.320	2.882	0.160
g	0.480	4.082	0.720	g	0.480	4.802	0.800
h	0.720	4.082	0.640	h	0.800	4.722	0.720
i	0.720	1.120	0.720	i	0.800	1.280	0.800
j	0.000	2.320	0.720	j	0.000	2.642	0.800
k	0.720	4.322	0.160	k	0.800	5.122	0.160
l	0.720	1.120	0.720	l	0.800	1.280	0.800
m	0.720	6.724	0.640	m	0.800	7.926	0.720
n	0.720	4.082	0.640	n	0.800	4.722	0.720
o	0.480	4.082	0.480	o	0.480	4.882	0.480
p	0.720	4.082	0.480	p	0.800	4.802	0.480
q	0.480	4.082	0.720	q	0.480	4.802	0.800
r	0.720	2.642	0.160	r	0.800	3.042	0.160
s	0.320	3.362	0.240	s	0.320	3.762	0.240
t	0.080	2.882	0.080	t	0.080	3.202	0.080
u	0.640	4.082	0.720	u	0.720	4.722	0.800
v	0.160	4.722	0.160	v	0.160	5.684	0.160
w	0.160	7.524	0.160	w	0.160	9.046	0.160
x	0.000	5.202	0.000	x	0.000	6.244	0.000
y	0.160	4.962	0.160	y	0.160	6.004	0.160
z	0.240	3.362	0.240	z	0.240	4.002	0.240
1	0.720	1.680	0.880	1	0.800	2.000	0.960
2	0.480	4.482	0.480	2	0.800	5.446	0.800
3	0.480	4.482	0.480	3	1.440	5.446	0.800
4	0.240	4.962	0.720	4	0.160	6.004	0.960
5	0.480	4.482	0.480	5	0.800	5.446	0.800
6	0.720	4.482	0.720	6	0.800	5.446	0.800
7	0.240	4.482	0.720	7	0.560	5.446	0.560
8	0.480	4.482	0.480	8	0.800	5.446	0.800
9	0.480	4.482	0.480	9	0.800	5.446	0.800
0	0.720	4.722	0.720	0	0.800	5.684	0.800
-	0.240	2.802	0.240	-	0.240	2.802	0.240

TS SHT NO. 8

SEE TS SHT NO. 10
MATCH LINE STA 110+00

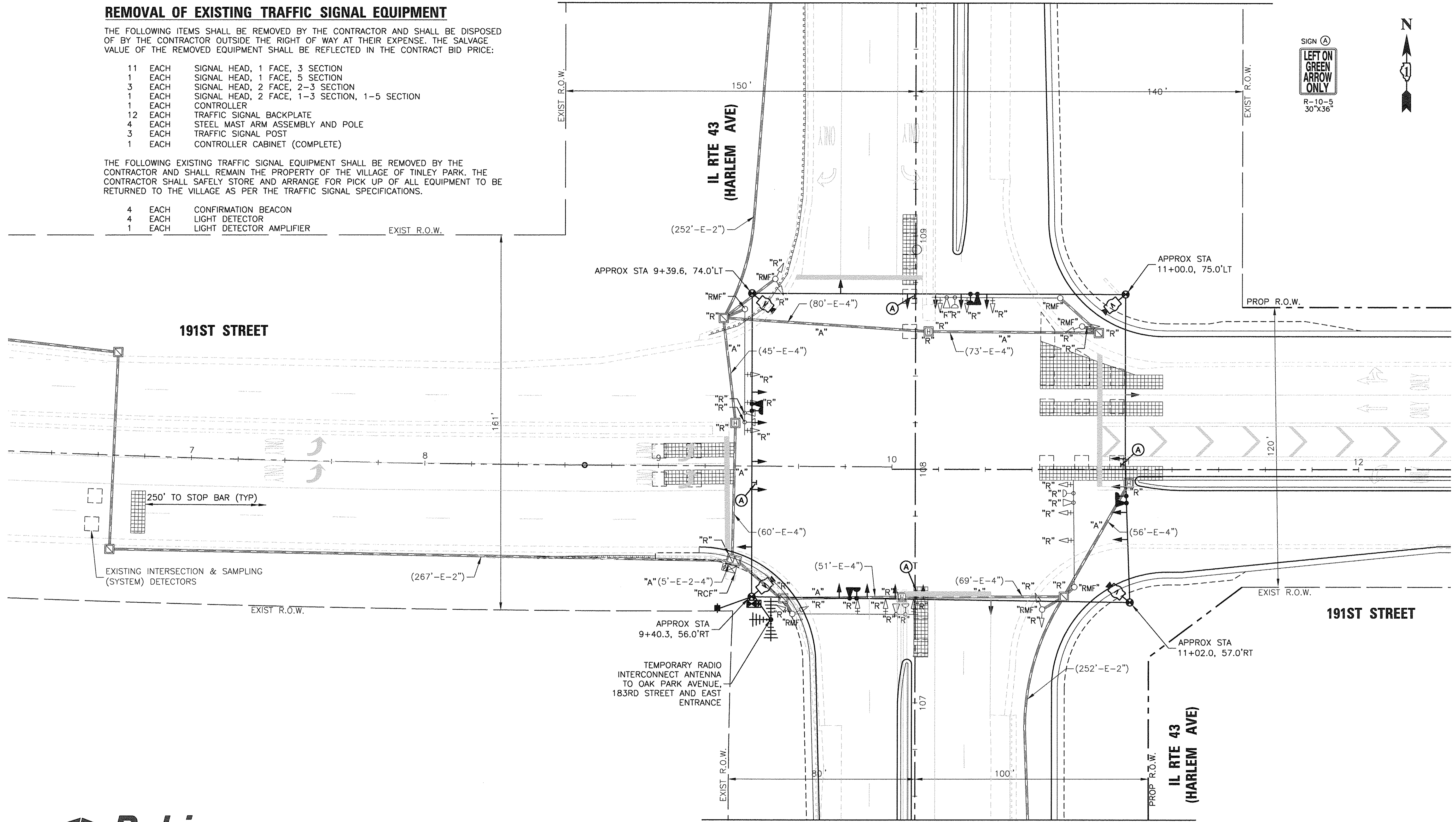
REMOVAL OF EXISTING TRAFFIC SIGNAL EQUIPMENT

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

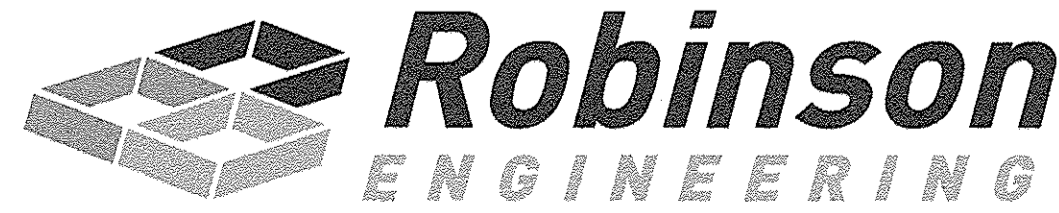
- 11 EACH SIGNAL HEAD, 1 FACE, 3 SECTION
- 1 EACH SIGNAL HEAD, 1 FACE, 5 SECTION
- 3 EACH SIGNAL HEAD, 2 FACE, 2-3 SECTION
- 1 EACH SIGNAL HEAD, 2 FACE, 1-3 SECTION, 1-5 SECTION
- 1 EACH CONTROLLER
- 12 EACH TRAFFIC SIGNAL BACKPLATE
- 4 EACH STEEL MAST ARM ASSEMBLY AND POLE
- 3 EACH TRAFFIC SIGNAL POST
- 1 EACH CONTROLLER CABINET (COMPLETE)

THE FOLLOWING EXISTING TRAFFIC SIGNAL EQUIPMENT SHALL BE REMOVED BY THE CONTRACTOR AND SHALL REMAIN THE PROPERTY OF THE VILLAGE OF TINLEY PARK. THE CONTRACTOR SHALL SAFELY STORE AND ARRANGE FOR PICK UP OF ALL EQUIPMENT TO BE RETURNED TO THE VILLAGE AS PER THE TRAFFIC SIGNAL SPECIFICATIONS.

- 4 EACH CONFIRMATION BEACON
- 4 EACH LIGHT DETECTOR
- 1 EACH LIGHT DETECTOR AMPLIFIER



TS SHT NO. 9



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STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

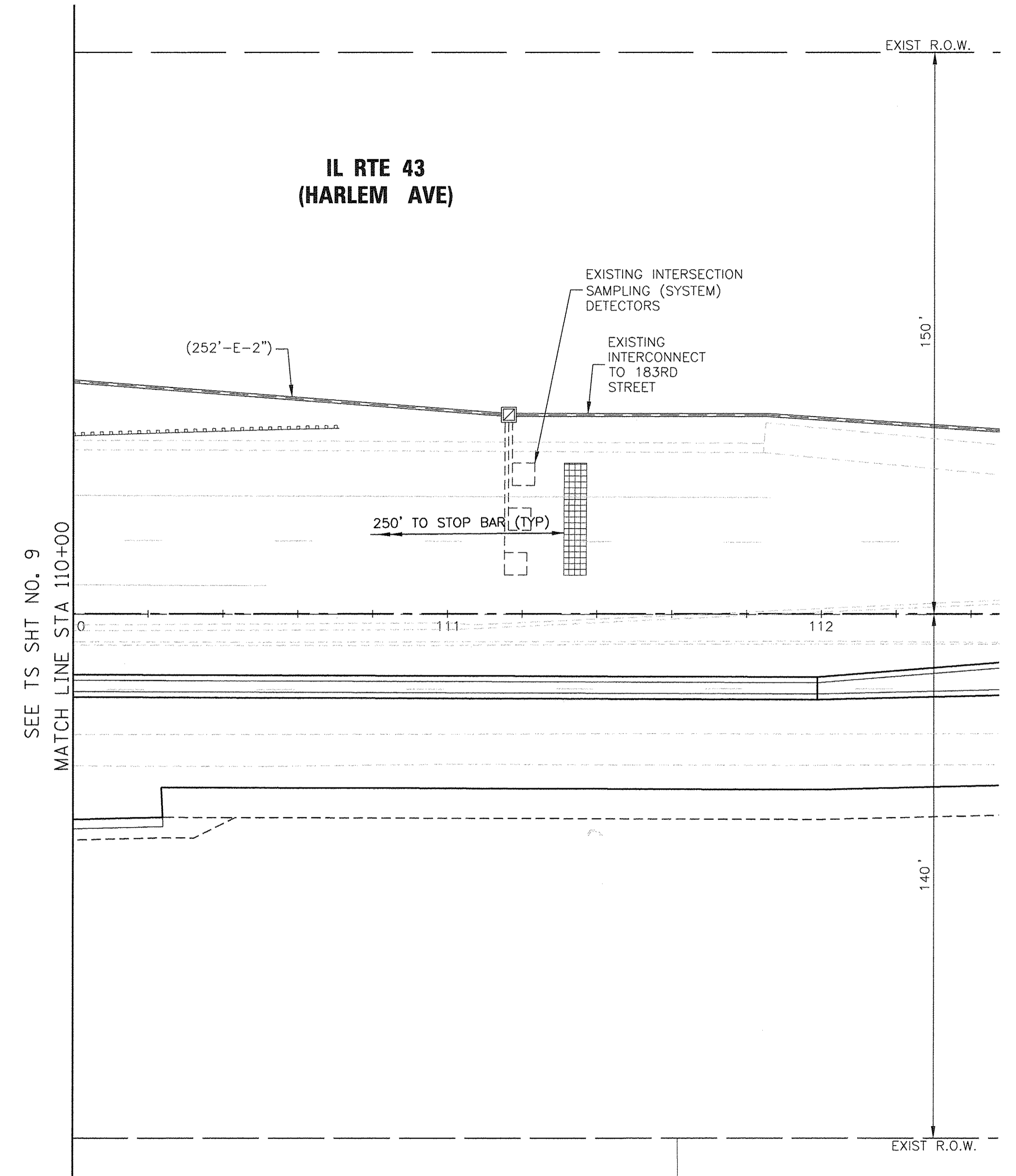
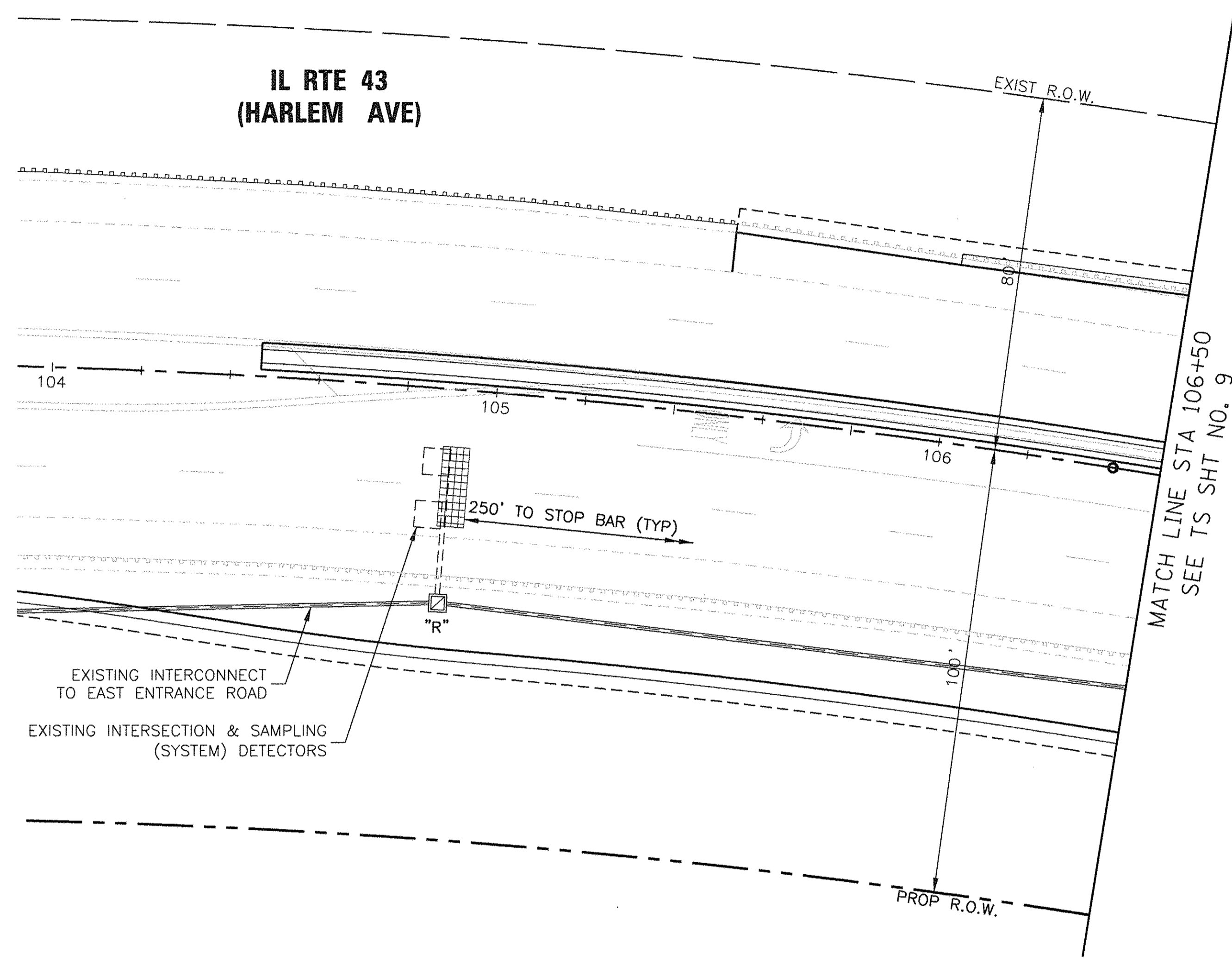
TEMPORARY TRAFFIC SIGNAL INSTALLATION REMOVAL STAGE
IL ROUTE 43 (HARLEM AVENUE) AT 191ST STREET

F.A.U. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
3754	01-00098-00-R5	COOK	108	52
FED. ROAD DIST. NO. 1 ILLINOIS FED. AID PROJECT			CONTRACT NO. 61A03	

TS 22263
ECON 171

FILE NAME =	USER NAME =	DESIGNED - WPD	REVISED -
\$FILEL\$		DRAWN - PS	REVISED -
Default		CHECKED - WPD	REVISED -
	PLOT SCALE = 1"=20'	DATE - 12-05-16	REVISED -
	PLOT DATE = 2-23-17		

SCALE: 1"=20' SHEET 52 OF 108 SHEETS STA. TO STA.



TS SHT NO. 10



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**TS 22263
ECON 171**

FILE NAME =	USER NAME =	DESIGNED - WPD	REVISED -
\$FILEL\$		DRAWN - PS	REVISED -
Default	PLOT SCALE = 1"=20'	CHECKED - WPD	REVISED -
	PLOT DATE = 2-23-17	DATE - 12-05-16	REVISED -

**STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION**

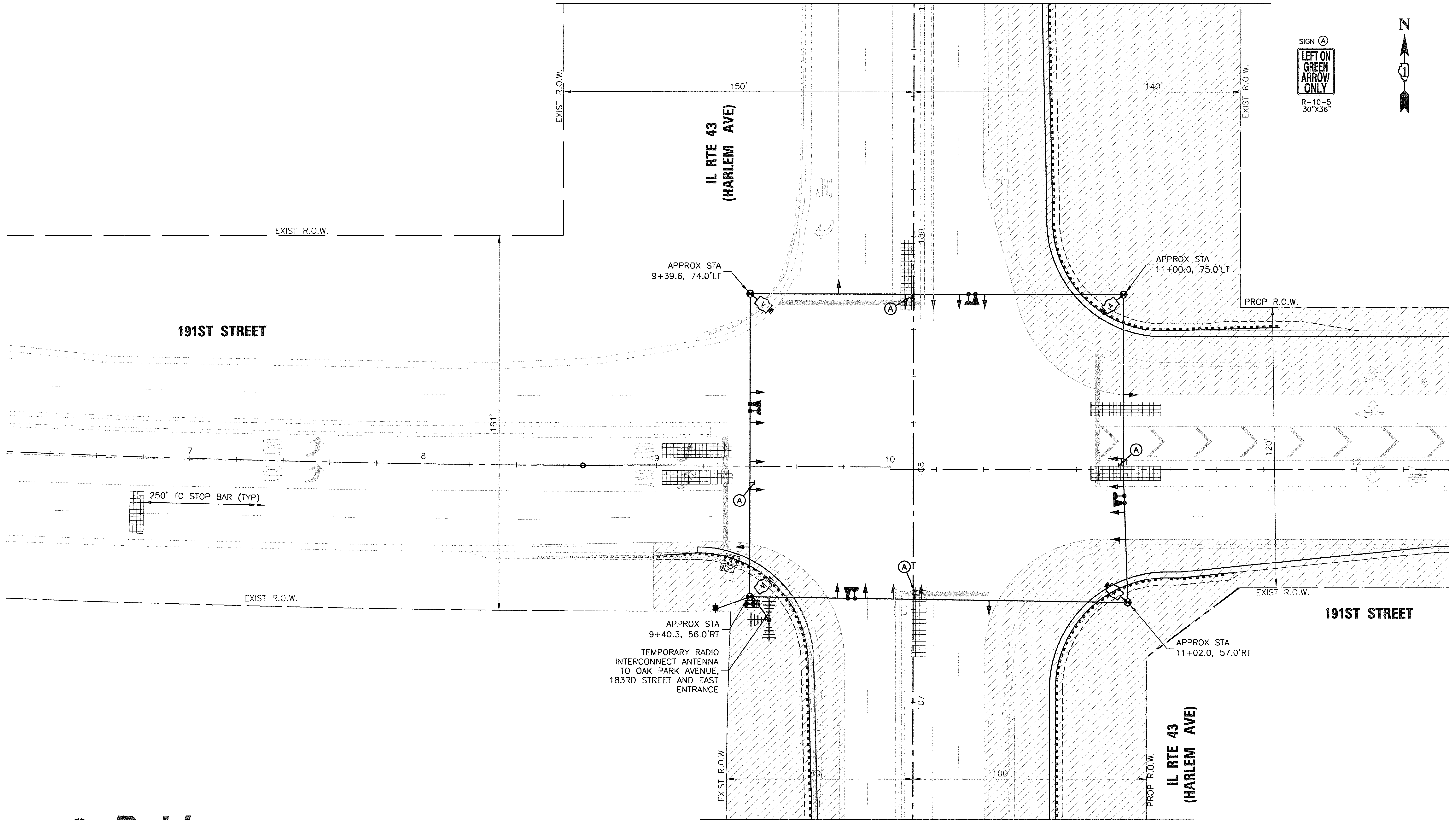
**TEMPORARY TRAFFIC SIGNAL INSTALLATION REMOVAL STAGE
IL ROUTE 43 (HARLEM AVENUE) AT 191ST STREET**

SCALE: 1"=20' SHEET 53 OF 108 SHEETS STA. TO STA.

F.A.U. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
3754	01-00098-00-RS	COOK	108	53
FED. ROAD DIST. NO. 1 ILLINOIS FED. AID PROJECT			CONTRACT NO. 61A03	

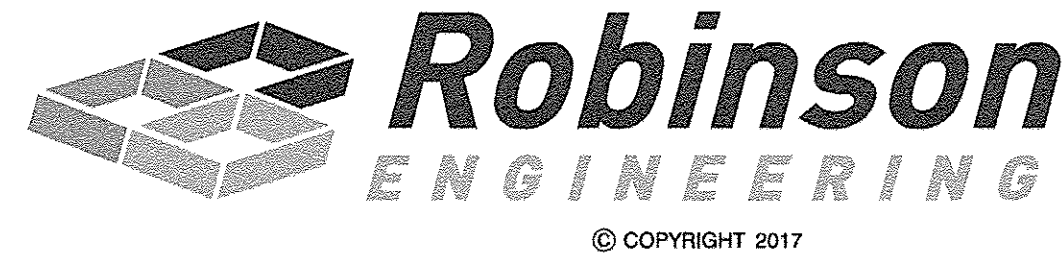
SEE TS SHT NO. 12
MATCH LINE STA 110+00

SIGN (A)
**LEFT ON GREEN
ARROW ONLY**
R-10-5
30"X36"



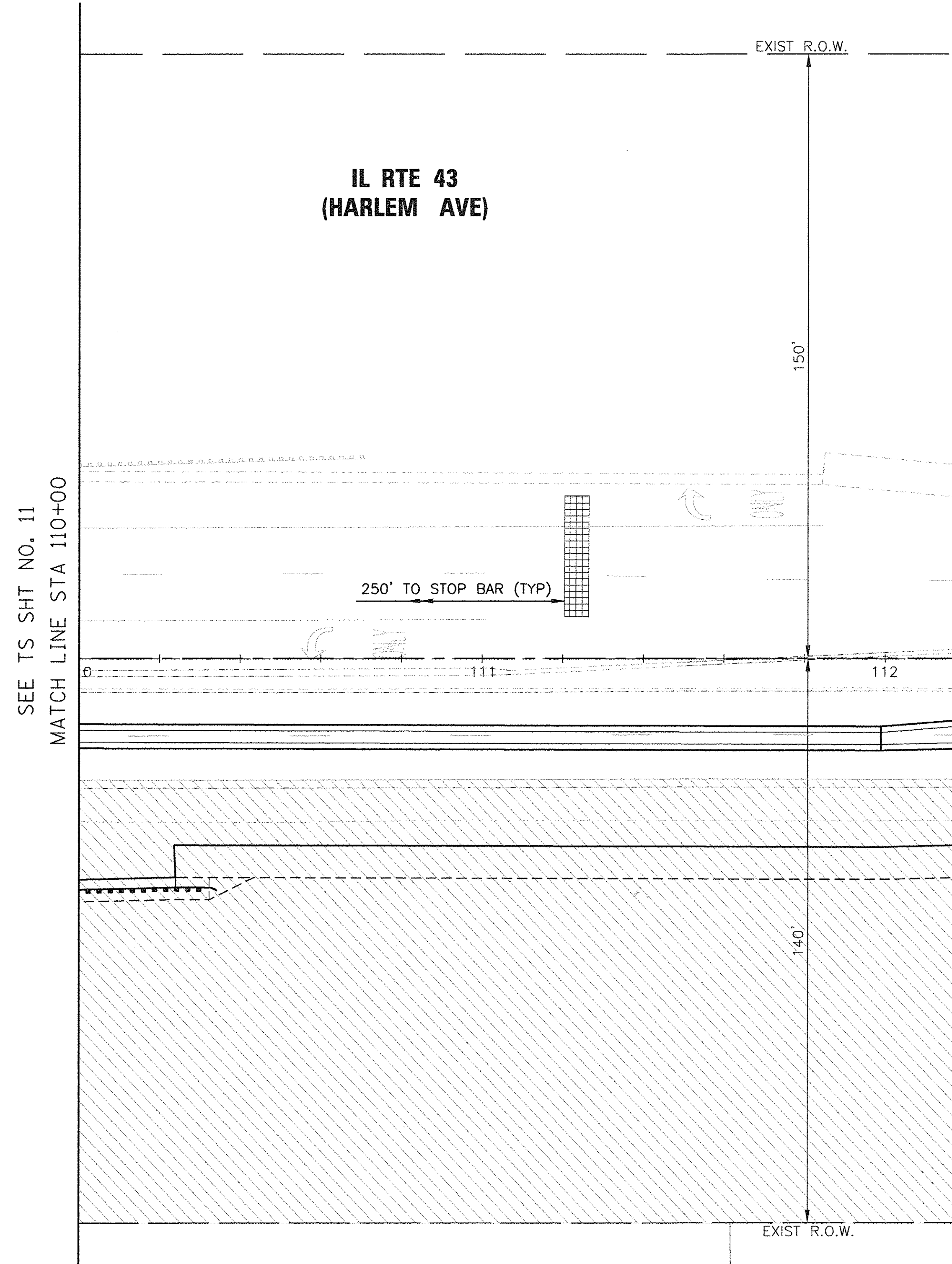
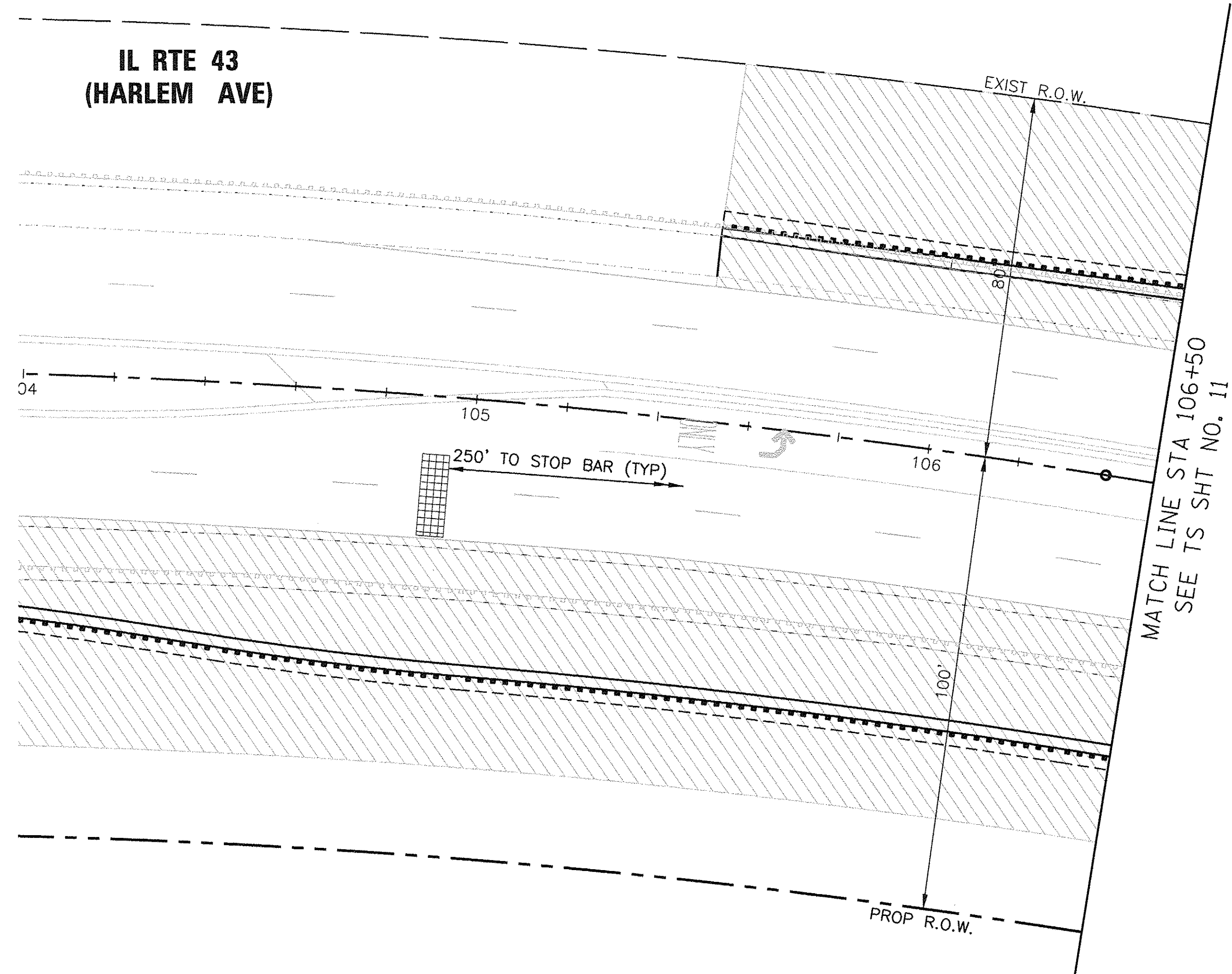
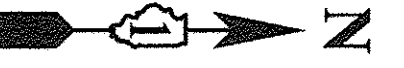
MATCH LINE STA 106+50
SEE TS SHT NO. 12

TS SHT NO. 11

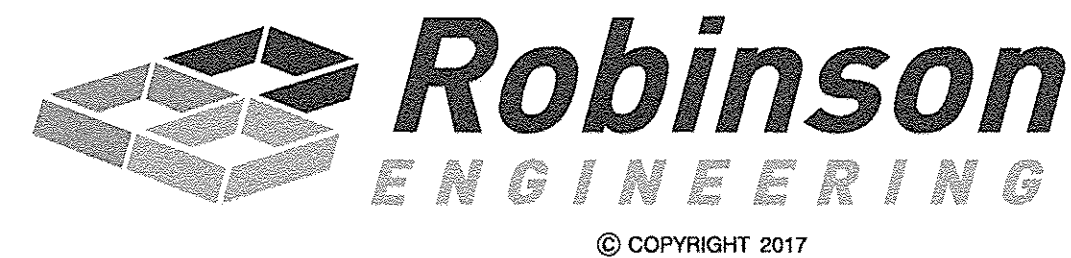


TS 22263
ECON 171

FILE NAME =	USER NAME =	DESIGNED - WPD	REVISED -	STATE OF ILLINOIS DEPARTMENT OF TRANSPORTATION	TEMPORARY TRAFFIC SIGNAL INSTALLATION - STAGE I IL ROUTE 43 (HARLEM AVENUE) AT 191ST STREET	F.A.U. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.	
\$FILEL\$		DRAWN - PS	REVISED -			3754	01-00098-00-RS	COOK	108	54	
	PLOT SCALE = 1"=20'	CHECKED - WPD	REVISED -			CONTRACT NO. 61A03					
Default	PLOT DATE = 2-23-17	DATE - 12-05-16	REVISED -			FED. ROAD DIST. NO. 1 ILLINOIS FED. AID PROJECT					



TS SHT NO. 12



TS 22263
ECON 171

FILE NAME =	USER NAME =	DESIGNED - WPD	REVISED -
%FILE%		DRAWN - PS	REVISED -
Default	PLOT SCALE = 1"=20'	CHECKED - WPD	REVISED -
	PLOT DATE = 2-23-17	DATE - 12-05-16	REVISED -

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

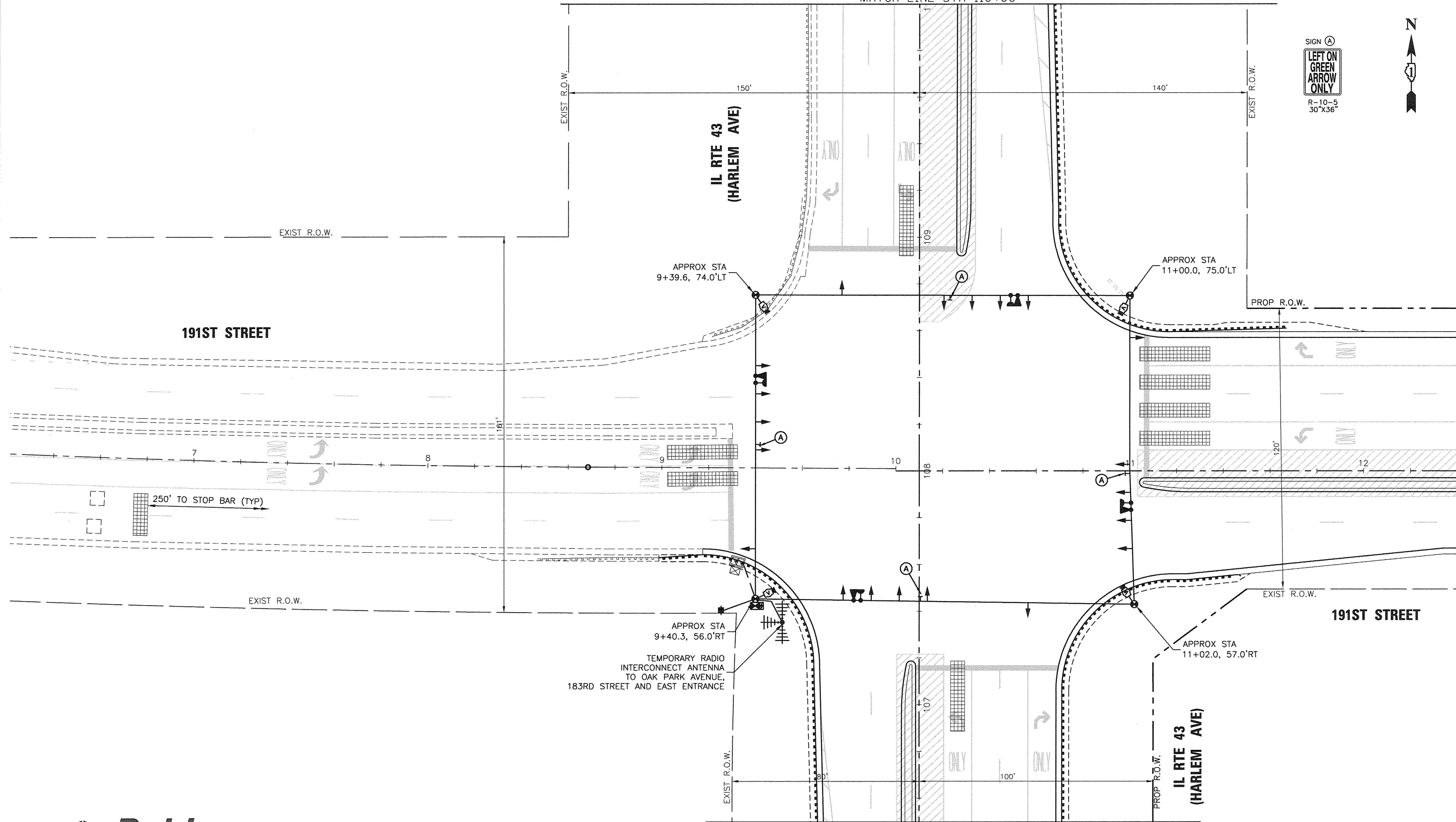
TEMPORARY TRAFFIC SIGNAL INSTALLATION - STAGE I
IL ROUTE 43 (HARLEM AVENUE) AT 191ST STREET

SCALE: 1"=20' SHEET 55 OF 108 SHEETS STA. TO STA.

F.A.U. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
3754	01-00098-00-RS	COOK	108	55
FED. ROAD DIST. NO. 1 ILLINOIS FED. AID PROJECT			CONTRACT NO. 61A03	

SEE TS SHT NO. 14
MATCH LINE STA 110+00

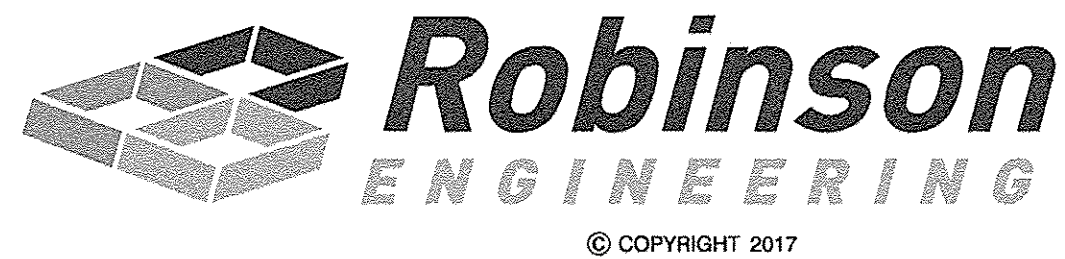
SIGN (A)
**LEFT ON GREEN
ARROW ONLY**
R-10-5
30"X36"



APPROX STA
9+40.3, 56.0'RT
TEMPORARY RADIO
INTERCONNECT ANTENNA
TO OAK PARK AVENUE,
183RD STREET AND EAST ENTRANCE

MATCH LINE STA 106+50
SEE TS SHT NO. 14

TS SHT NO. 13



TS 22263
ECON 171

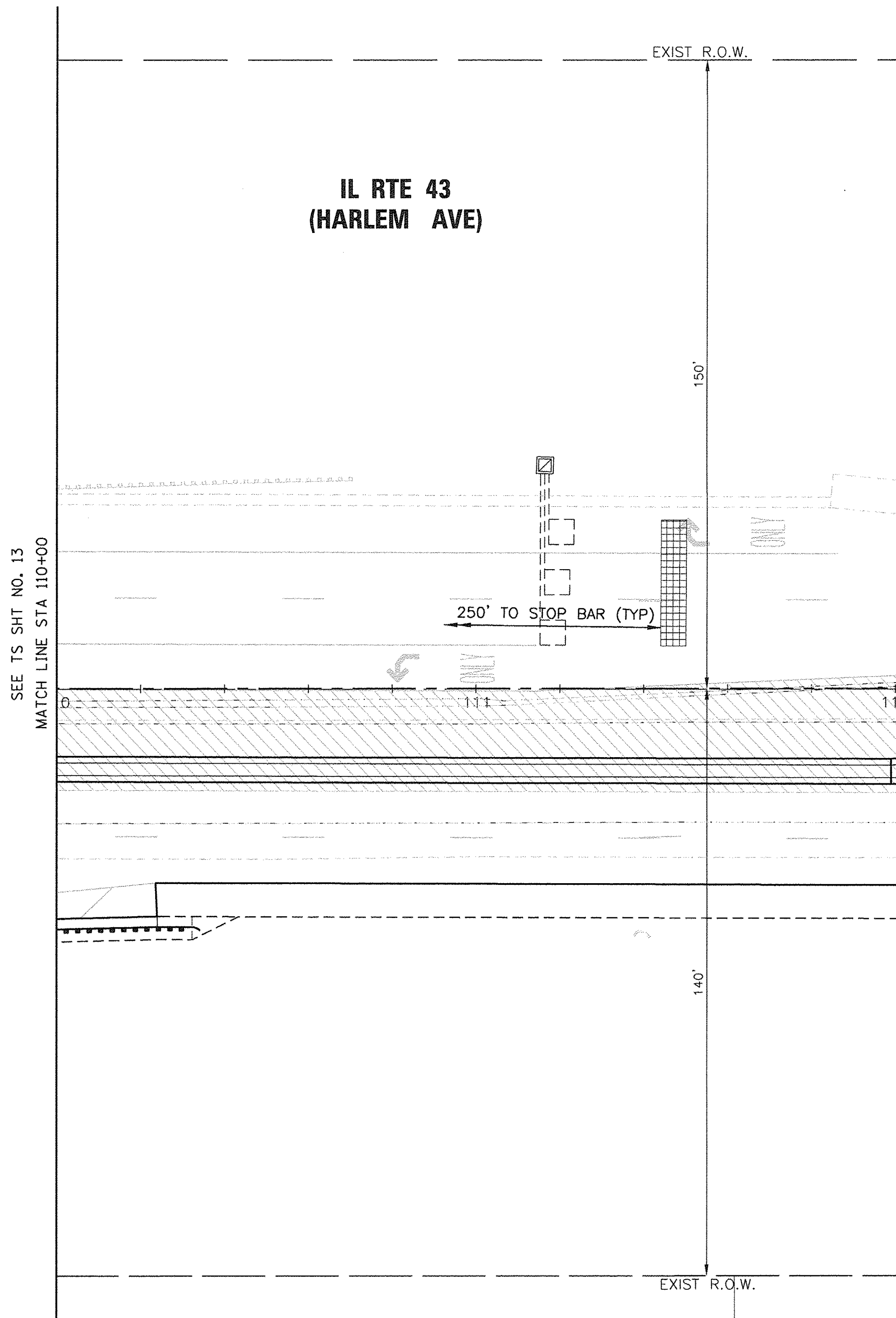
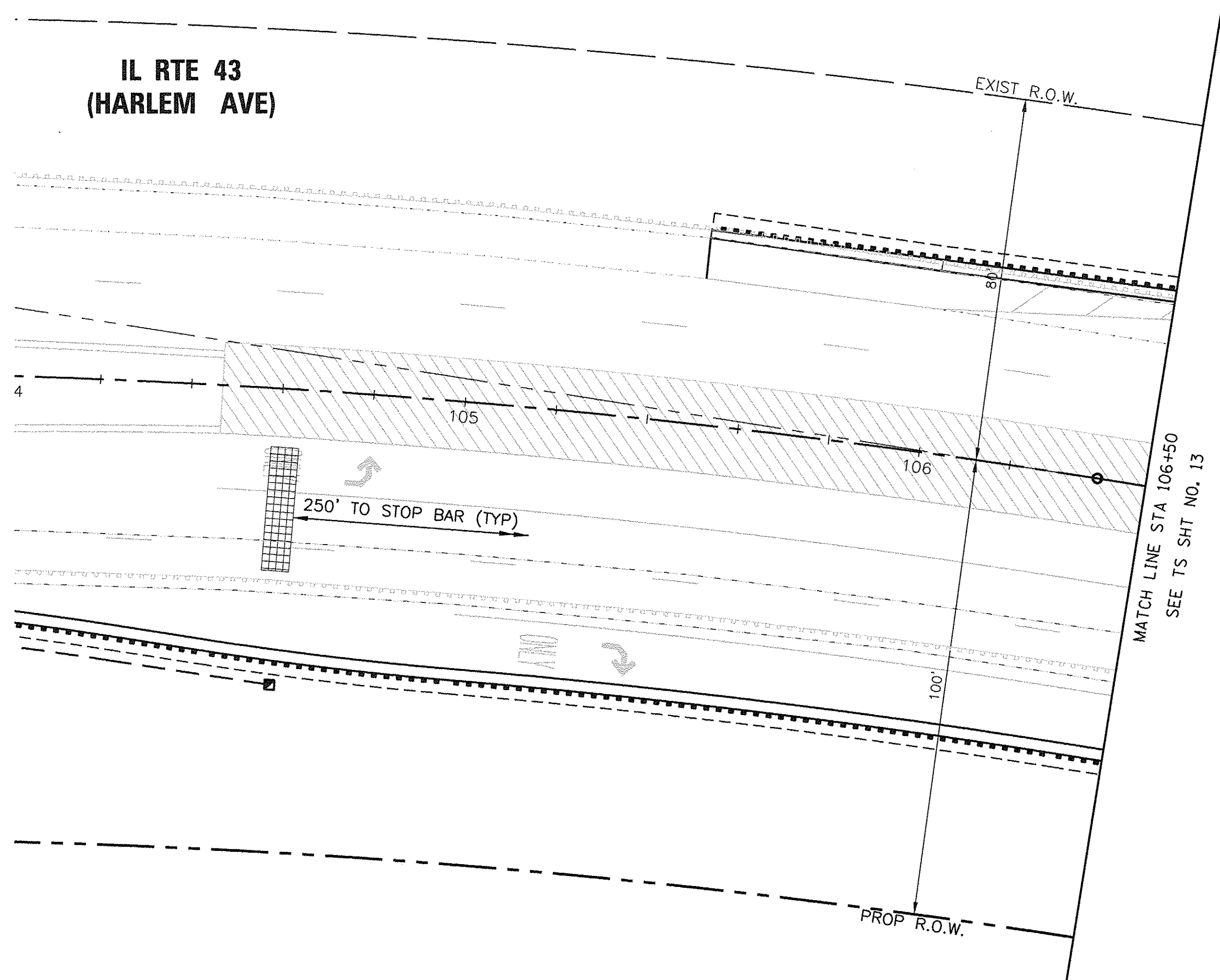
FILE NAME =	USER NAME =	DESIGNED - WPD	REVISED -
\$FILEL\$		DRAWN - PS	REVISED -
Default		CHECKED - WPD	REVISED -
	PLOT SCALE = 1"=20'	DATE - 12-05-16	REVISED -
	PLOT DATE = 2-23-17		

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

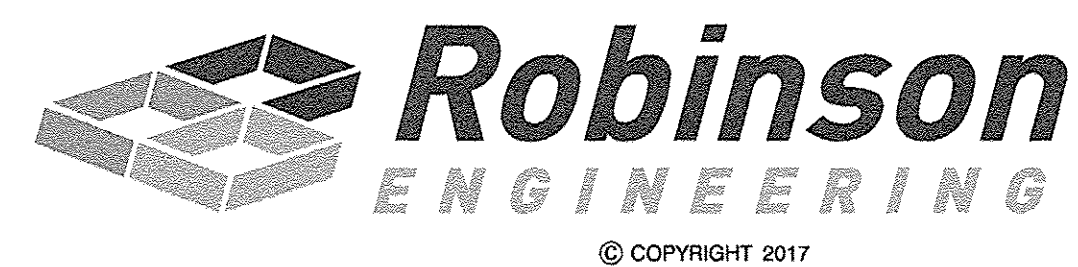
TEMPORARY TRAFFIC SIGNAL INSTALLATION - STAGE II
IL ROUTE 43 (HARLEM AVENUE) AT 191ST STREET

SCALE: 1"=20' SHEET 56 OF 108 SHEETS STA. TO STA.

F.A.U. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
3754	01-00098-00-RS	COOK	108	56
FED. ROAD DIST. NO. 1 ILLINOIS FED. AID PROJECT			CONTRACT NO. 61A03	



TS SHT NO. 14



**TS 22263
ECON 171**

FILE NAME =	USER NAME =	DESIGNED - WPD	REVISED -
\$FILEL\$		DRAWN - PS	REVISED -
Default	PLOT SCALE = 1"=20'	CHECKED - WPD	REVISED -
	PLOT DATE = 2-23-17	DATE - 12-05-16	REVISED -

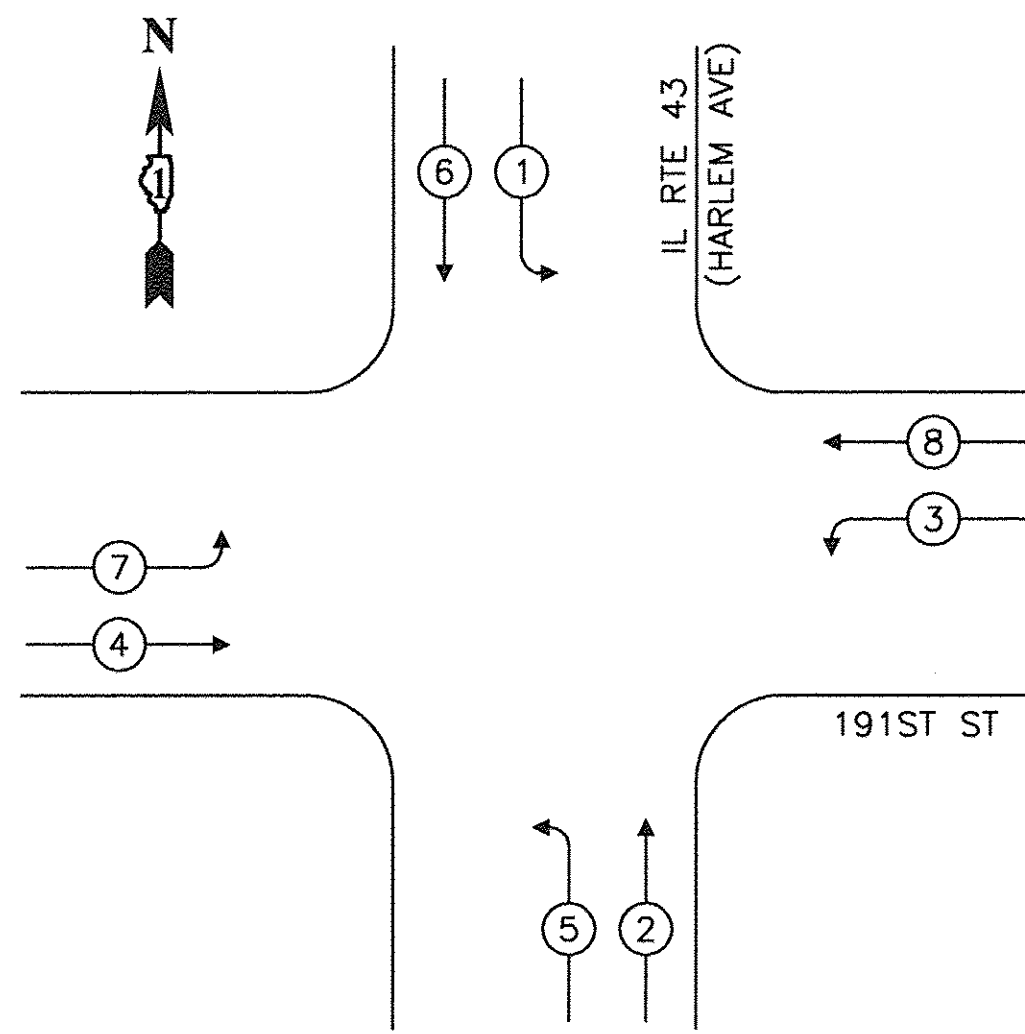
**STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION**

**TEMPORARY TRAFFIC SIGNAL INSTALLATION - STAGE II
IL ROUTE 43 (HARLEM AVENUE) AT 191ST STREET**

SCALE: 1"=20' SHEET 57 OF 108 SHEETS STA. TO STA.

F.A.U. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
3754	01-00098-00-RS	COOK	108	57
FED. ROAD DIST. NO. 1 ILLINOIS FED. AID PROJECT			CONTRACT NO. 61A03	

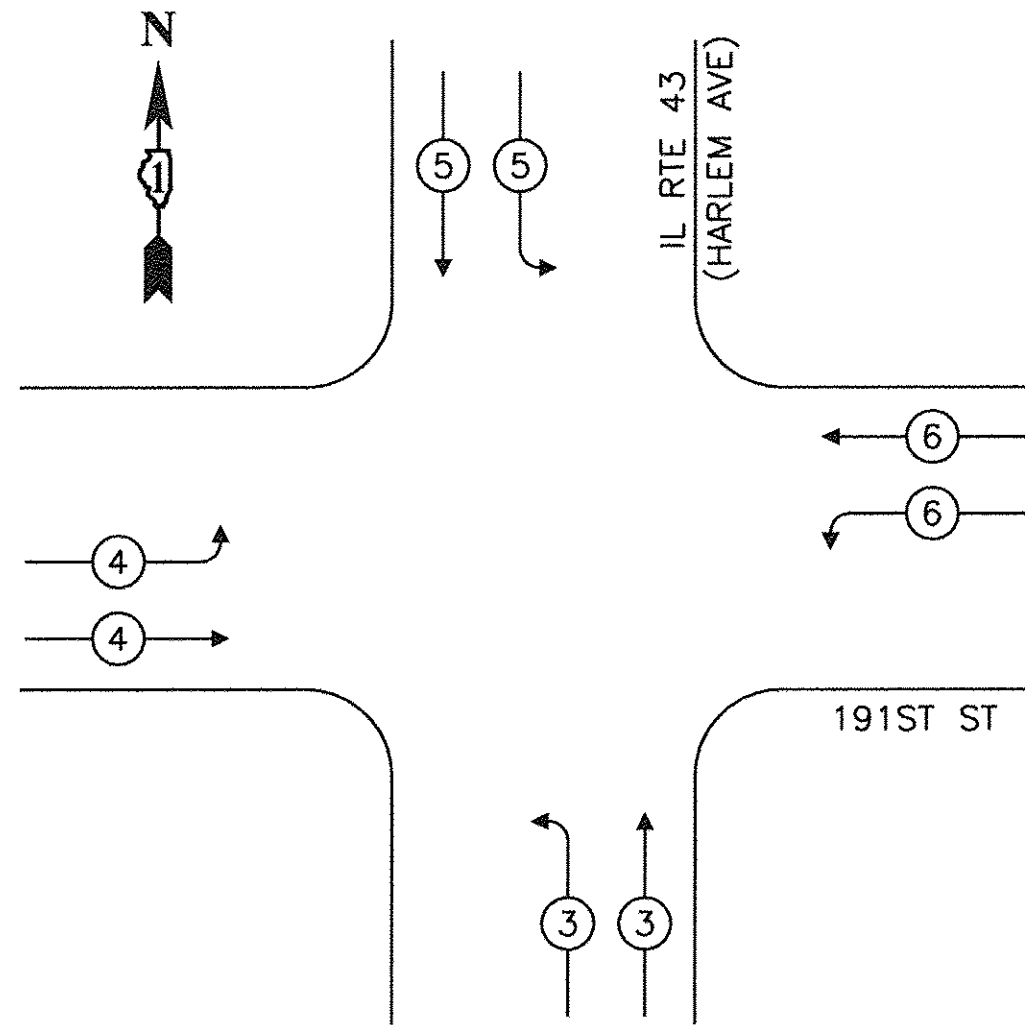
TEMPORARY CONTROLLER SEQUENCE



LEGEND

- ← (●) → PROTECTED PHASE
- ← (●) - - - PROTECTED/PERMITTED PHASE
- ← (●) → PEDESTRIAN PHASE
- ◊ OL OVERLAP

TEMPORARY EMERGENCY VEHICLE PREEMPTION SEQUENCE



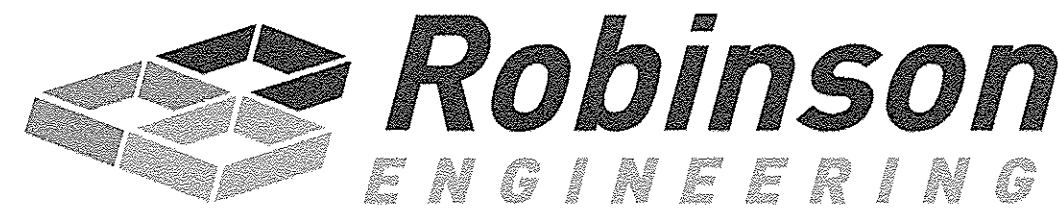
TRAFFIC SIGNAL ELECTRICAL SERVICE REQUIREMENTS

TYPE	NO. OF LAMPS	LED WATTAGE	% OPERATION	TOTAL WATTAGE
SIGNAL (RED)	20	17	0.50	170
(YELLOW)	20	25	0.25	125
(GREEN)	20	15	0.25	75
PERMISSIVE ARROW	-	12	0.10	-
PED. SIGNAL	-	25	1.00	-
CONTROLLER	1	100	1.00	100
UPS	1	25	1.00	25
VIDEO SYSTEM	1	150	1.00	150
BLANK-OUT SIGN	-	-	-	-
FLASHER	-	-	-	-
STREET NAME SIGN	-	-	-	-
LUMINAIRE	-	-	-	-
TOTAL =				645

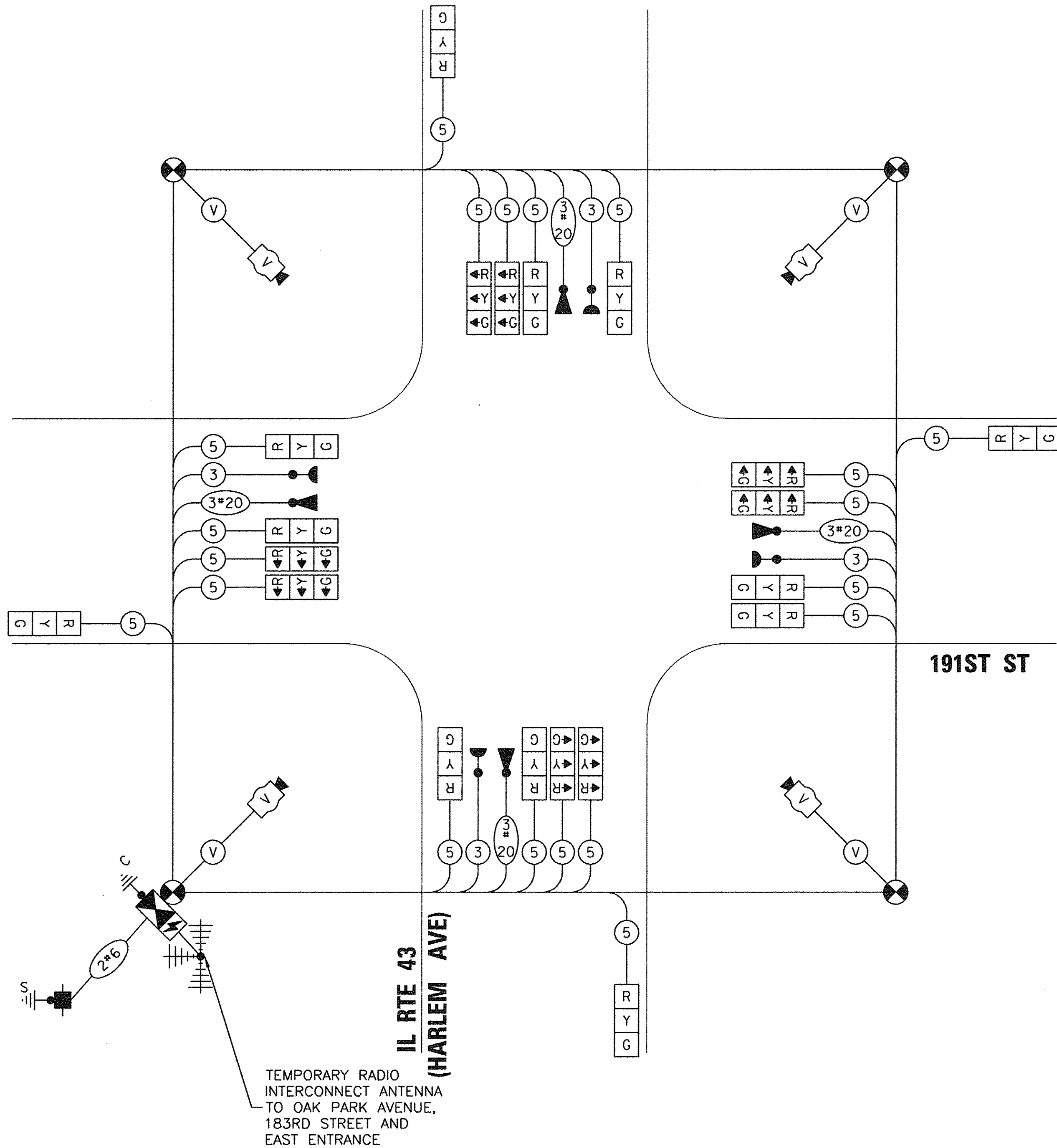
ENERGY COSTS TO:

VILLAGE OF TINLEY PARK
16250 S. OAK PARK AVENUE
TINLEY PARK, IL 60477

ENERGY SUPPLY: CONTACT: KATHRYN SUGRUE
PHONE: (708) 235-2337
COMPANY: COMED
ACCOUNT NUMBER 01320-11057



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TEMPORARY CABLE PLAN

(NOT TO SCALE)

TS SHT NO. 15

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

TEMPORARY CABLE PLAN, CONTROLLER SEQUENCE
AND EMERGENCY VEHICLE PREEMPTION SEQUENCE - STAGE 1 & II
IL ROUTE 43 (HARLEM AVENUE) AT 191ST STREET

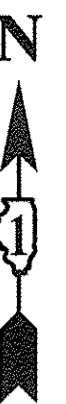
F.A.U. RTE. 3754	SECTION 01-00098-00-RS	COUNTY COOK	TOTAL SHEETS 108	SHEET NO. 58
FED. ROAD DIST. NO. 1 ILLINOIS			CONTRACT NO. 61A03	
FED. AID PROJECT				

FILE NAME =	USER NAME =	DESIGNED - WPD	REVISED -
#FILEL#		DRAWN - PS	REVISED -
Default	PLOT SCALE = NONE	CHECKED - WPD	REVISED -
	PLOT DATE = 2-23-17	DATE - 12-05-16	REVISED -

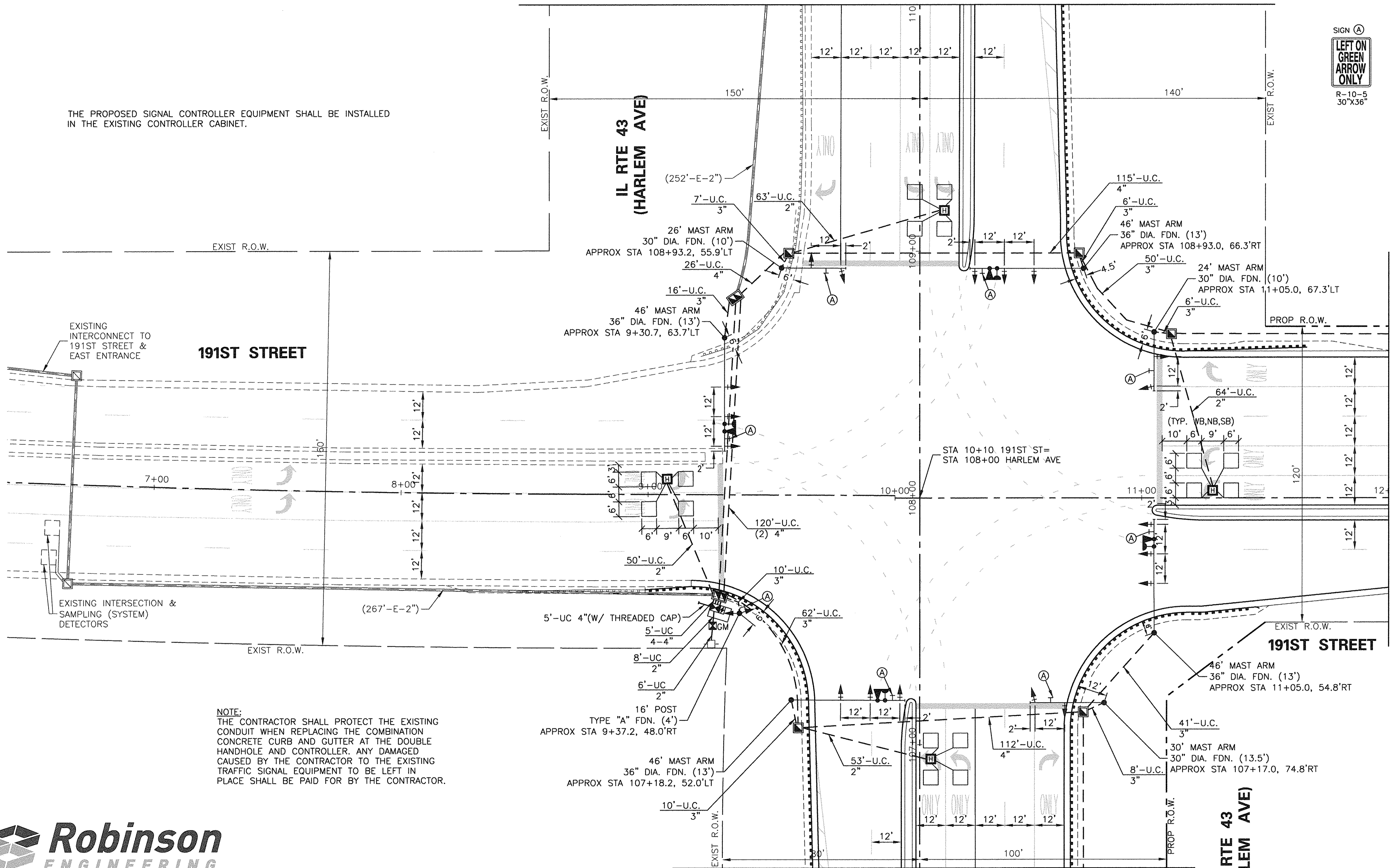
TS 22263
ECON 171

SCALE: NONE SHEET 58 OF 108 SHEETS STA. TO STA.

SEE TS SHT NO. 18
MATCH LINE STA 110+00



THE PROPOSED SIGNAL CONTROLLER EQUIPMENT SHALL BE INSTALLED IN THE EXISTING CONTROLLER CABINET.



191ST STREET

**IL RTE 43
(HARLEM AVE)**

191ST STREET

**IL RTE 43
(HARLEM AVE)**

NOTE:
THE CONTRACTOR SHALL PROTECT THE EXISTING CONDUIT WHEN REPLACING THE COMBINATION CONCRETE CURB AND GUTTER AT THE DOUBLE HANDHOLE AND CONTROLLER. ANY DAMAGED CAUSED BY THE CONTRACTOR TO THE EXISTING TRAFFIC SIGNAL EQUIPMENT TO BE LEFT IN PLACE SHALL BE PAID FOR BY THE CONTRACTOR.

MATCH LINE STA 106+50
SEE TS SHT NO. 18

MATCH LINE STA 12+00
SEE TS SHT NO. 17



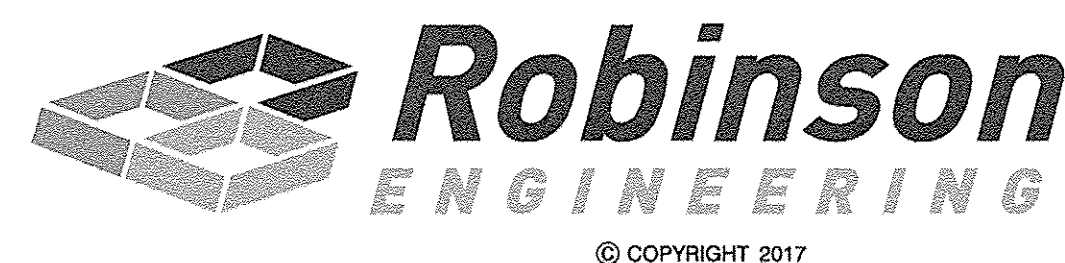
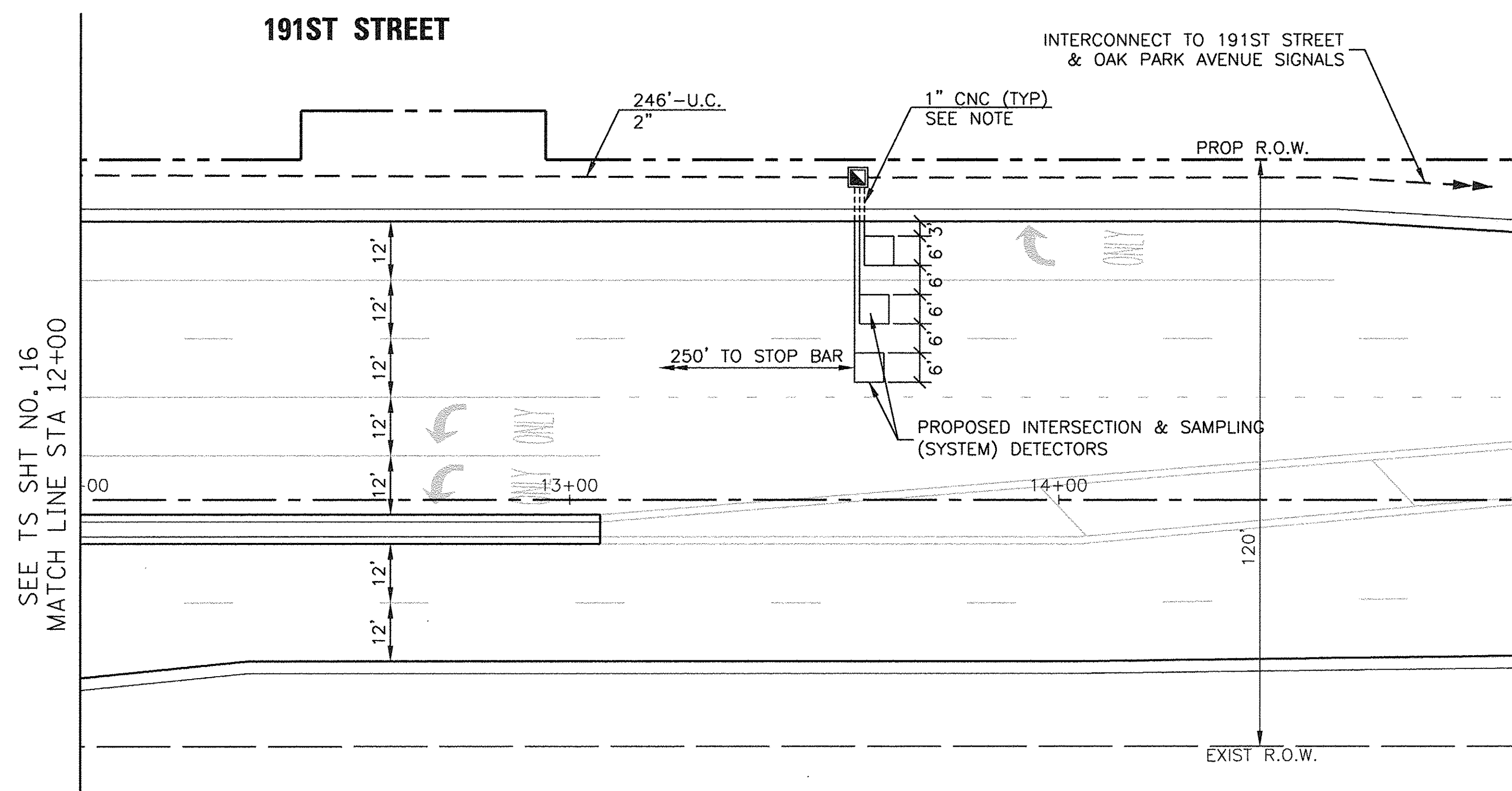
TS SHT NO. 16

**STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION**

**PROPOSED TRAFFIC SIGNAL INSTALLATION PLAN (SHEET 1 OF 3)
IL ROUTE 43 (HARLEM AVENUE) AT 191ST STREET**

**TS 22263
ECON 171**

FILE NAME =	USER NAME =	DESIGNED - WPD	REVISED -	<p>SCALE: 1"=20'</p> <p>SHEET 59 OF 108 SHEETS</p> <p>STA. TO STA.</p>	F.A.U. RTE. 3754	SECTION 01-00098-00-RS	COUNTY COOK	TOTAL SHEETS 108	SHEET NO. 59	
\$FILEL#	PLOT SCALE = 1"=20'	DRAWN - WPD	REVISED -		FED. ROAD DIST. NO. 1	ILLINOIS	FED. AID PROJECT	CONTRACT NO. 61A03		
Default	PLOT DATE = 2-23-17	CHECKED - WPD	REVISED -							
		DATE - 12-05-16	REVISED -							



NOTE:
EACH DETECTOR LOOP SHALL HAVE ITS OWN 1" COILABLE NON-METALLIC CONDUIT BETWEEN THE EDGE OF PAVEMENT AND THE ADJACENT HANDHOLE AS SHOWN ON THE PLANS AND AS STATED IN THE STANDARDS SPECIFICATIONS.

TS SHT NO. 17

TS 22263
ECON 171

FILE NAME =	USER NAME =	DESIGNED - WPD	REVISED -
\$FILEL#		DRAWN - PS	REVISED -
Default		CHECKED - WPD	REVISED -
	PLOT DATE = 2-23-17	DATE - 12-05-16	REVISED -

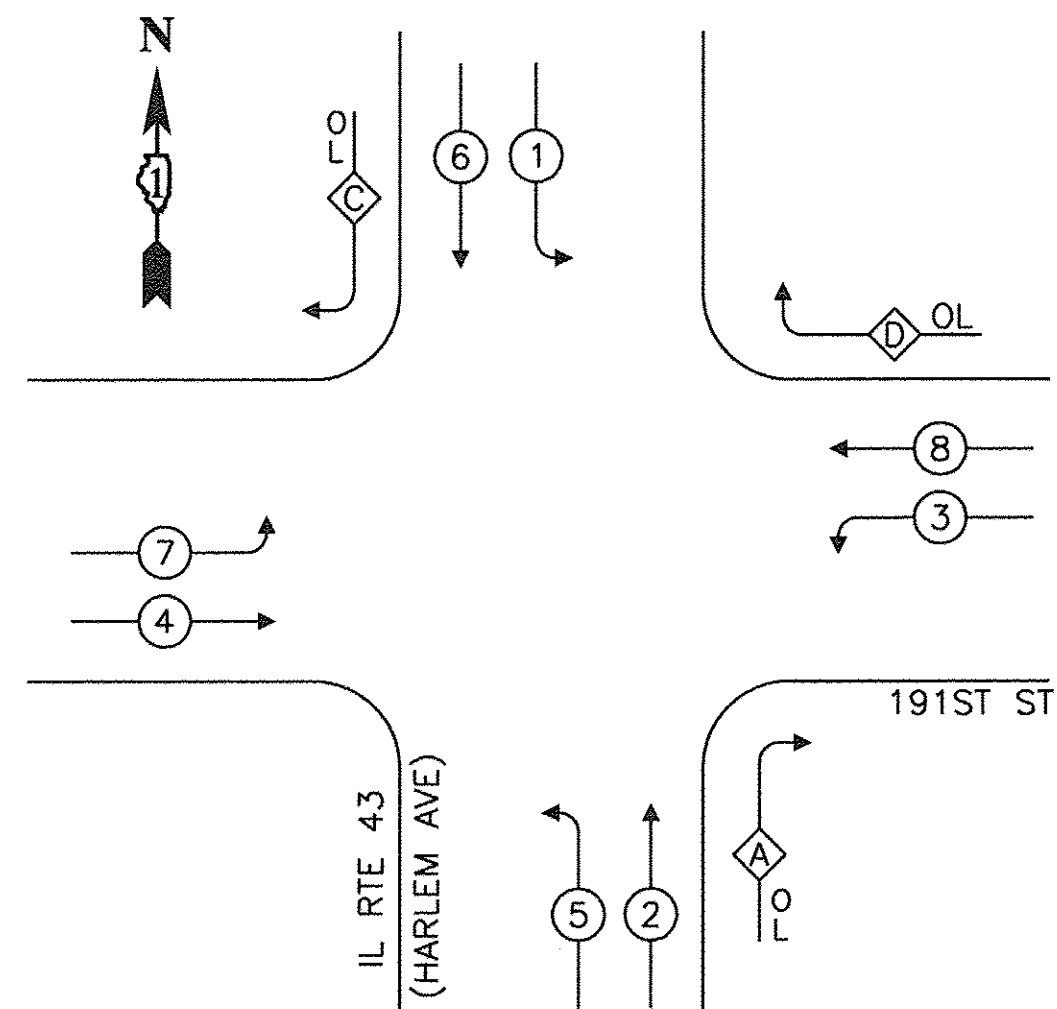
STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

PROPOSED TRAFFIC SIGNAL INSTALLATION PLAN (SHEET 2 OF 3)
IL ROUTE 43 (HARLEM AVENUE) AT 191ST STREET

SCALE: 1"=20' SHEET 60 OF 108 SHEETS STA. TO STA.

F.A.U. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
3754	01-00098-00-RS	COOK	108	60
FED. ROAD DIST. NO. 1 ILLINOIS FED. AID PROJECT			CONTRACT NO. 61A03	

PROPOSED CONTROLLER SEQUENCE



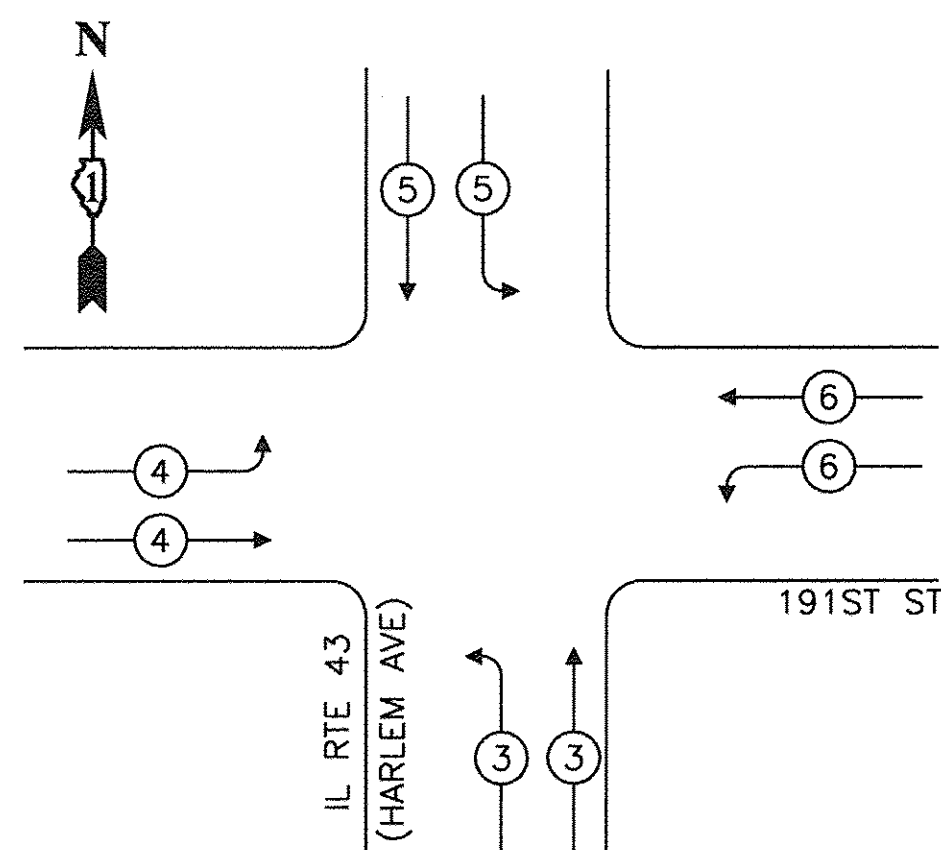
LEGEND

- ← (circle with dot) → PROTECTED PHASE
- ← (circle with dot and dashed line) → PROTECTED/PERMITTED PHASE
- ← (circle with dot and arrow) → PEDESTRIAN PHASE
- ← (circle with dot and OL) → OVERLAP

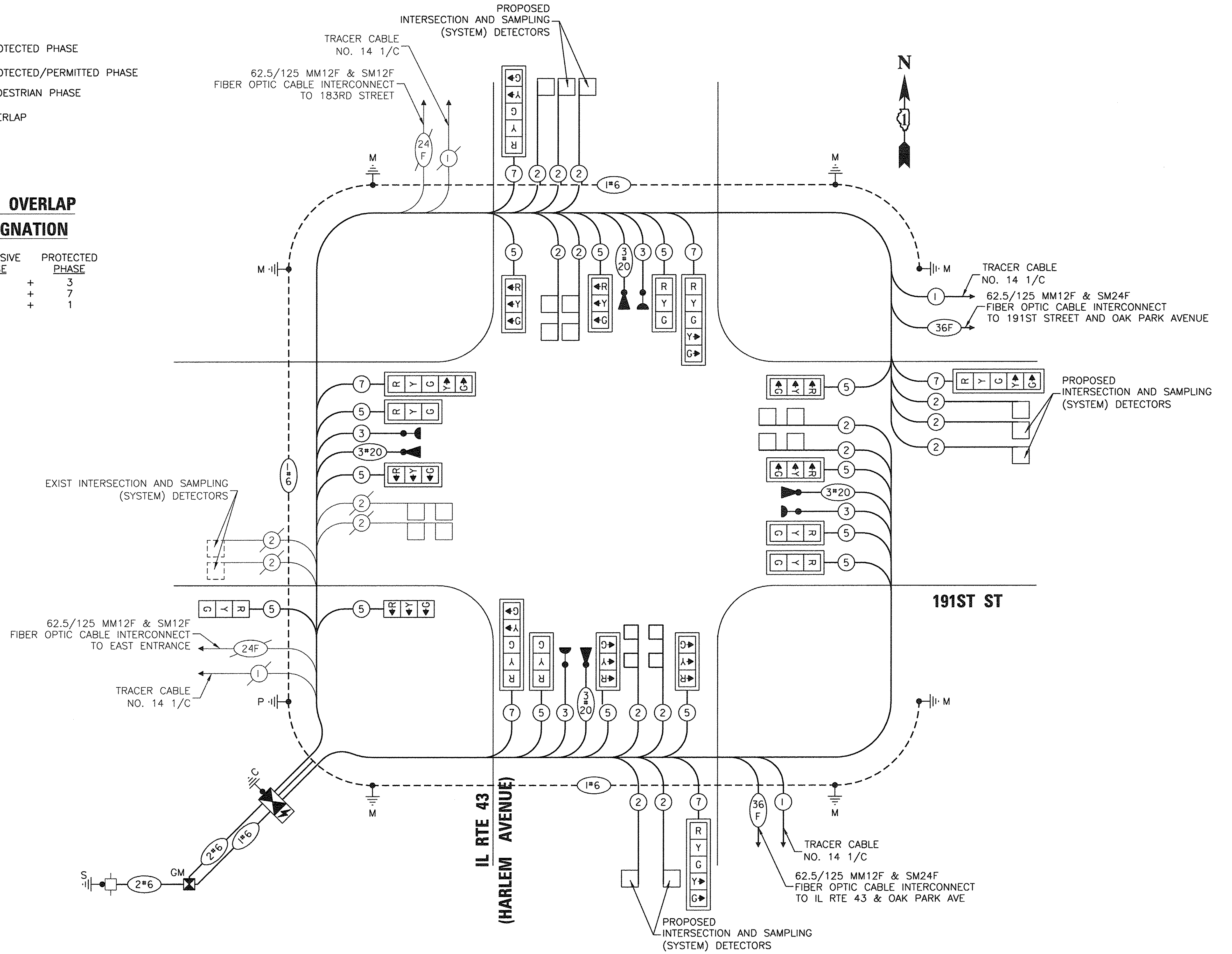
RIGHT TURN OVERLAP PHASE DESIGNATION

OVERLAP LETTER	PERMISSIVE PHASE	PROTECTED PHASE
A	= 2	+ 3
C	= 6	+ 7
D	= 8	+ 1

PROPOSED EMERGENCY VEHICLE PREEMPTION SEQUENCE



PROPOSED CABLE PLAN



TRAFFIC SIGNAL ELECTRICAL SERVICE REQUIREMENTS

TYPE	NO. OF LAMPS	LED WATTAGE	% OPERATION	TOTAL WATTAGE
SIGNAL (RED)	20	17	0.50	170
(YELLOW)	20	25	0.25	125
(GREEN)	20	15	0.25	75
PERMISSIVE ARROW	12	12	0.10	14.4
PED. SIGNAL	-	25	1.00	-
CONTROLLER	1	100	1.00	100
UPS	1	25	1.00	25
VIDEO SYSTEM	-	-	-	-
BLANK-OUT SIGN	-	-	-	-
FLASHER	-	-	-	-
STREET NAME SIGN	-	-	-	-
LUMINAIRE	-	-	-	-
TOTAL =				509.4

ENERGY COSTS TO:

VILLAGE OF TINLEY PARK
16250 S. OAK PARK AVENUE
TINLEY PARK, IL 60477

ENERGY SUPPLY: CONTACT: KATHRYN SUGRUE
PHONE: (708) 235-2337
COMPANY: COMED
ACCOUNT NUMBER 26070-93052

TS SHT NO. 19

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

PROPOSED CABLE PLAN, CONTROLLER SEQUENCE
AND EMERGENCY VEHICLE PREEMPTION SEQUENCE
IL ROUTE 43 (HARLEM AVENUE) AT 191ST STREET

F.A.U. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
3754	01-00098-00-RS	COOK	108	62
CONTRACT NO. 61A03				

TS 22263
ECON 171

FILE NAME =	USER NAME =	DESIGNED - WPD	REVISED -
\$FILEL\$		DRAWN - PS	REVISED -
Default	PLOT SCALE = NONE	CHECKED - WPD	REVISED -
	PLOT DATE = 2-23-17	DATE - 12-05-16	REVISED -

SCALE: NONE SHEET 62 OF 108 SHEETS STA. TO STA.

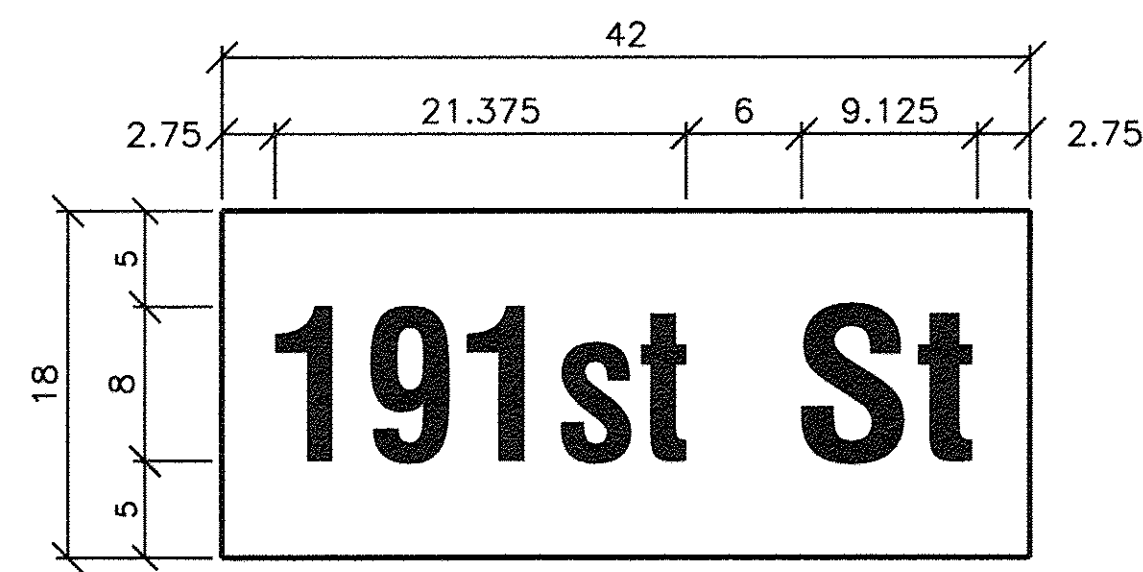
FED. ROAD DIST. NO. 1 ILLINOIS FED. AID PROJECT

SIGN PANEL – TYPE 2

ALL DIMENSIONS ARE IN INCHES UNLESS NOTED OTHERWISE



DESIGN SERIES	AREA (SQ FT)	SIGN PANEL TYPE	SHEETING TYPE	QTY. REQUIRED
D	13.75	2	ZZ	2

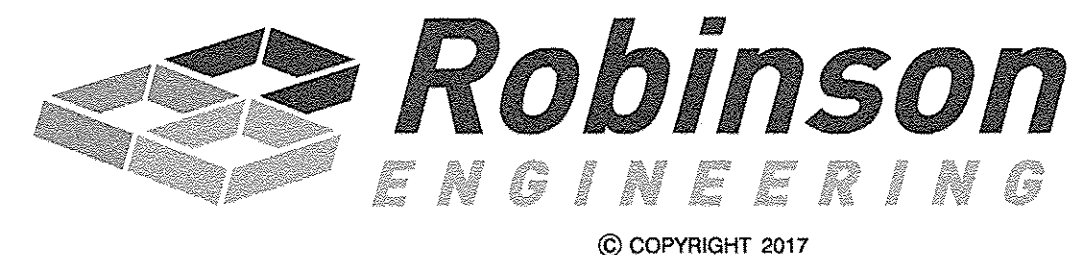


DESIGN SERIES	AREA (SQ FT)	SIGN PANEL TYPE	SHEETING TYPE	QTY. REQUIRED
D	5.25	1	ZZ	2

NOTE:
FOR ADDITIONAL DESIGN AND INSTALLATION INFORMATION
SEE DISTRICT 1 MAST ARM MOUNTED STREET NAME
SIGNS DETAIL,
AND ILLUMINATED STREET NAME SIGN MOUNTING DETAIL.

SCHEDULE OF QUANTITIES

ITEM DESCRIPTION	UNITS	TOTAL QTY
SIGN PANEL – TYPE 1	SQ FT	71
SIGN PANEL – TYPE 2	SQ FT	28
UNDERGROUND CONDUIT, GALVANIZED STEEL, 2" DIA.	FOOT	733
UNDERGROUND CONDUIT, GALVANIZED STEEL, 3" DIA.	FOOT	216
UNDERGROUND CONDUIT, GALVANIZED STEEL, 4" DIA.	FOOT	518
HANDHOLE	EACH	7
HEAVY-DUTY HANDHOLE	EACH	4
DOUBLE HANDHOLE	EACH	2
MAINTENANCE OF EXISTING TRAFFIC SIGNAL INSTALLATION	EACH	1
ELECTRIC CABLE IN CONDUIT, SIGNAL NO. 14 3C	FOOT	1,100
ELECTRIC CABLE IN CONDUIT, SIGNAL NO. 14 5C	FOOT	3,520
ELECTRIC CABLE IN CONDUIT, SIGNAL NO. 14 7C	FOOT	1,630
ELECTRIC CABLE IN CONDUIT, LEAD-IN, NO. 14 1 PAIR	FOOT	5,740
ELECTRIC CABLE IN CONDUIT, SERVICE NO. 6 2C	FOOT	50
ELECTRIC CABLE IN CONDUIT, EQUIPMENT GROUNDING CONDUCTOR, NO. 6 1C	FOOT	780
TRAFFIC SIGNAL POST, GALVANIZED STEEL 16 FT.	EACH	1
STEEL MAST ARM ASSEMBLY AND POLE, 24 FT.	EACH	1
STEEL MAST ARM ASSEMBLY AND POLE, 26 FT.	EACH	1
STEEL MAST ARM ASSEMBLY AND POLE, 30 FT.	EACH	1
STEEL MAST ARM ASSEMBLY AND POLE, 46 FT.	EACH	4
CONCRETE FOUNDATION, TYPE A	FOOT	4
CONCRETE FOUNDATION, TYPE E 30-INCH DIAMETER	FOOT	34
CONCRETE FOUNDATION, TYPE E 36-INCH DIAMETER	FOOT	52
DRILL EXISTING HANDHOLE	EACH	1
SIGNAL HEAD, LED, 1-FACE, 3-SECTION, MAST-ARM MOUNTED	EACH	12
SIGNAL HEAD, LED, 1-FACE, 5-SECTION, MAST-ARM MOUNTED	EACH	6
SIGNAL HEAD, LED, 1-FACE, 3-SECTION, BRACKET MOUNTED	EACH	2
TRAFFIC SIGNAL BACKPLATE, LOUVERED, FORMED PLASTIC	EACH	18
DETECTOR LOOP, TYPE I	FOOT	920
LIGHT DETECTOR	EACH	4
LIGHT DETECTOR AMPLIFIER	EACH	1
TEMPORARY TRAFFIC SIGNAL INSTALLATION	EACH	1
REMOVE EXISTING TRAFFIC SIGNAL EQUIPMENT	EACH	1
REMOVE EXISTING HANDHOLE	EACH	7
REMOVE EXISTING DOUBLE HANDHOLE	EACH	1
REMOVE EXISTING CONCRETE FOUNDATION	EACH	8
TEMPORARY TRAFFIC SIGNAL TIMING	EACH	1
EMERGENCY VEHICLE PRIORITY SYSTEM LINE SENSOR CABLE, NO. 20 3/C	FOOT	1,100
FULL-ACTUATED CONTROLLER AND TYPE SUPER P CABINET (SPECIAL)	EACH	1
SERVICE INSTALLATION, GROUND MOUNTED, METERED	EACH	1
UNINTERRUPTABLE POWER SUPPLY, SPECIAL	EACH	1

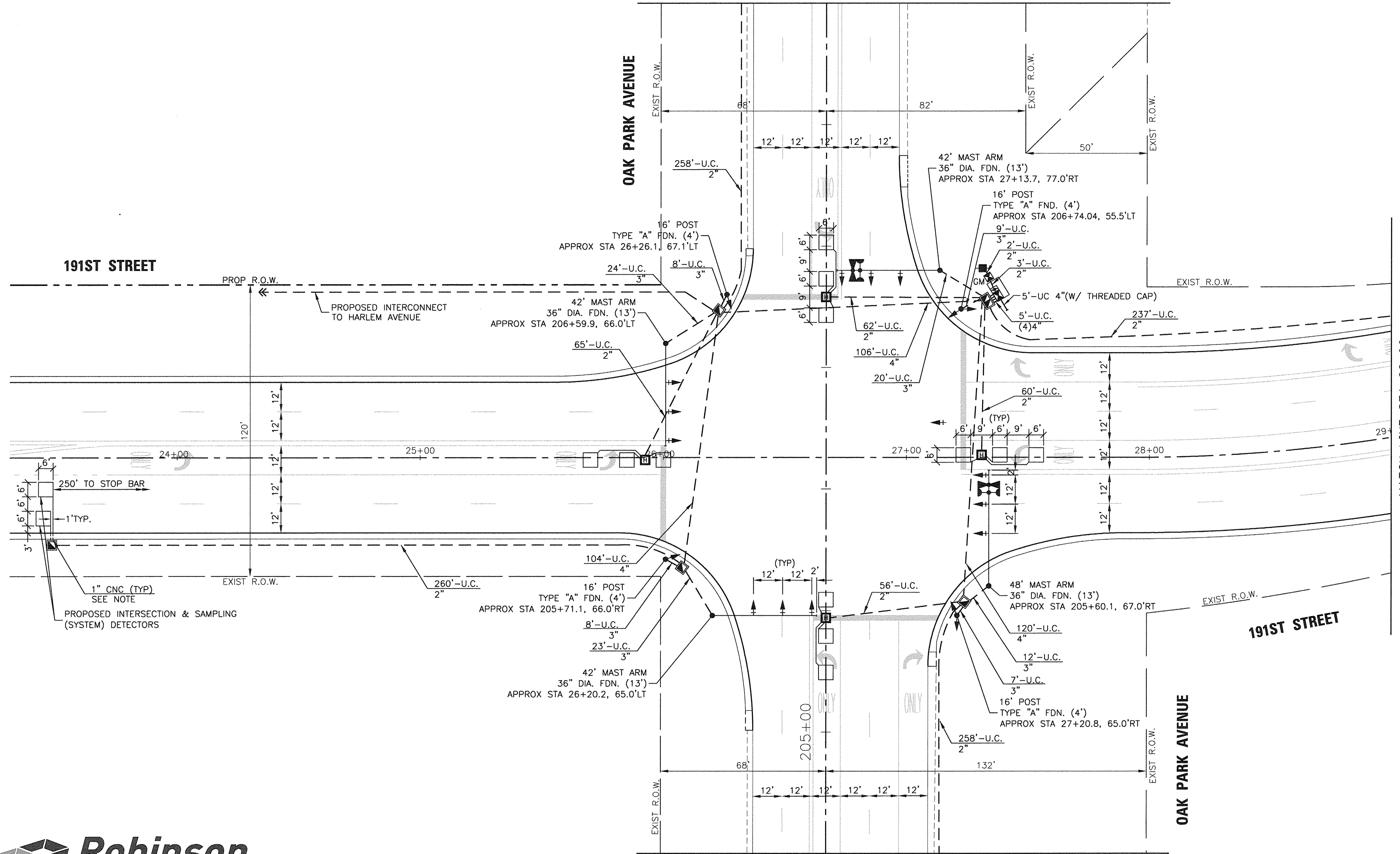
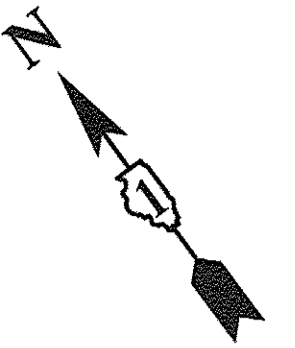


TS SHT NO. 20

**TS 22263
ECON 171**

FILE NAME =	USER NAME =	DESIGNED - WPD	REVISED -	STATE OF ILLINOIS DEPARTMENT OF TRANSPORTATION	MAST ARM MOUNTED STREET NAME SIGNS AND SCHEDULE OF QUANTITIES IL ROUTE 43 (HARLEM AVENUE) AT 191ST STREET	F.A.U. RTE. 3754	SECTION 01-00098-00-RS	COUNTY COOK	TOTAL SHEETS 108	SHEET NO. 63	
*FILEL#	PLOT SCALE = NONE	DRAWN - PS	REVISED -			SCALE: NONE	SHEET 63 OF 108 SHEETS	STA. TO STA.	FED. ROAD DIST. NO. 1	ILLINOIS	FED. AID PROJECT
Default	PLOT DATE = 2-23-17	CHECKED - WPD	REVISED -								
		DATE - 12-05-16	REVISED -								

SEE TS SHT NO. 22
MATCH LINE STA 208+00



MATCH LINE STA 204+50
SEE TS SHT NO. 22

MATCH LINE STA 29+00
SEE TS SHT NO. 23



TS SHT NO. 21

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

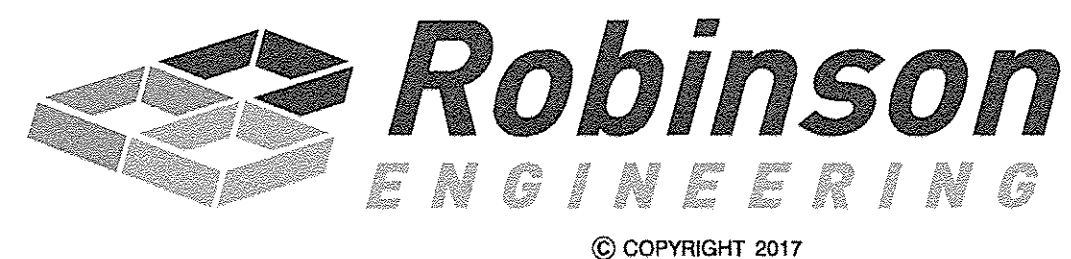
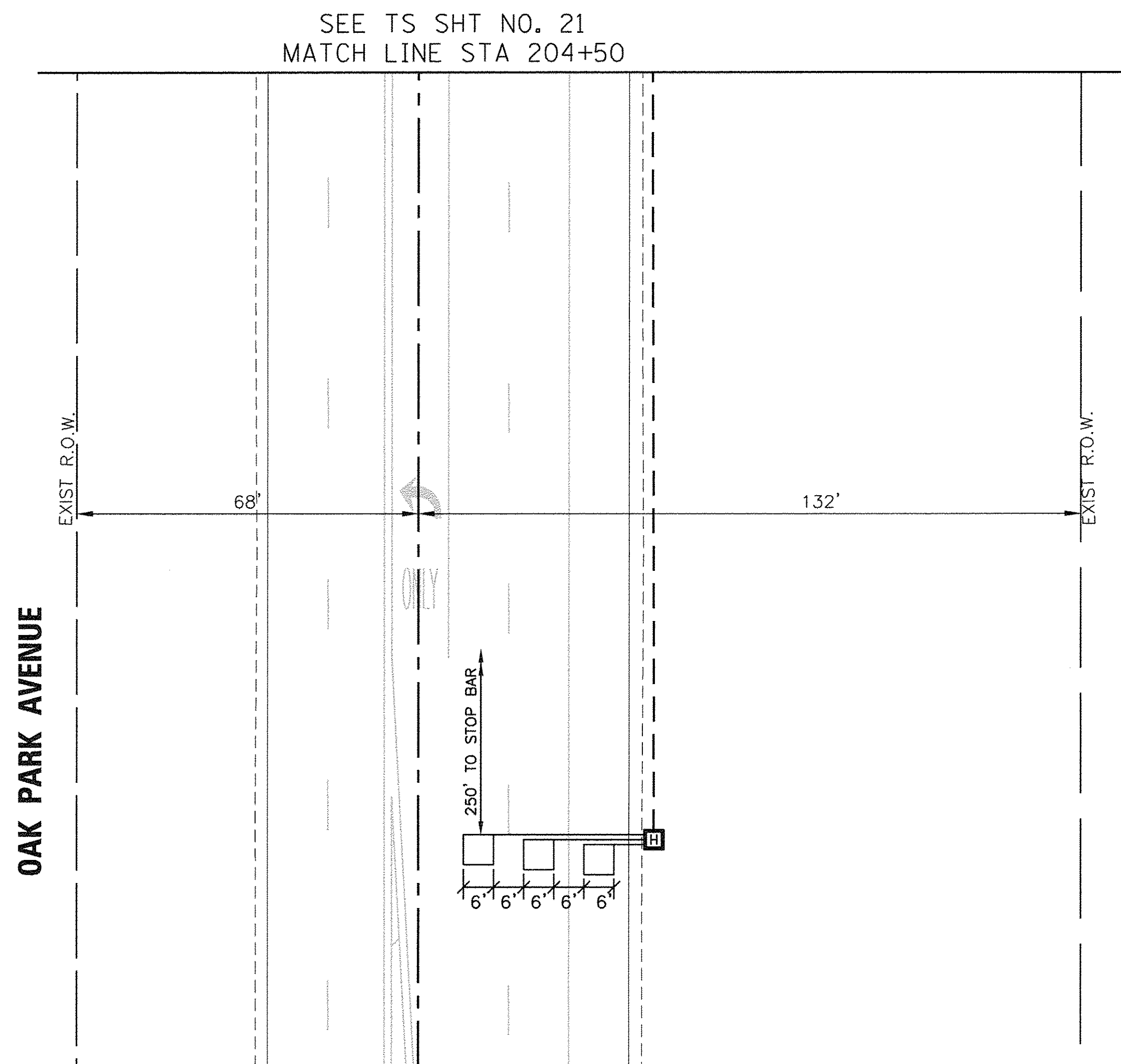
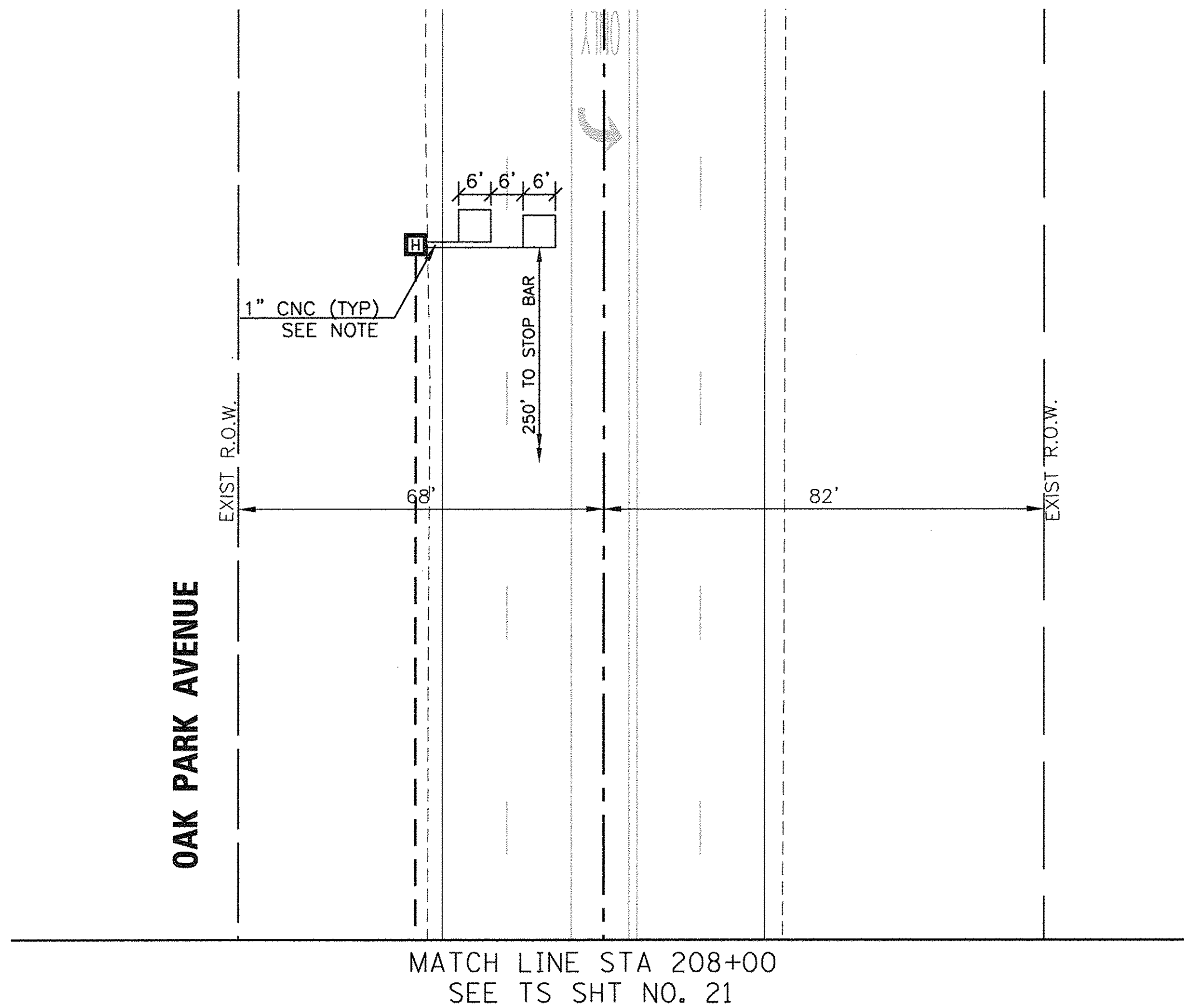
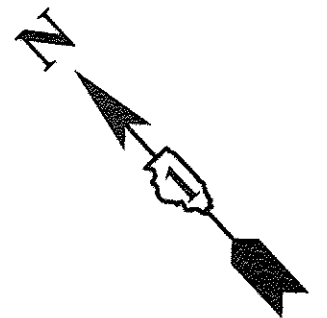
PROPOSED TRAFFIC SIGNAL INSTALLATION PLAN (SHEET 1 OF 3)
IL ROUTE 43 (HARLEM AVENUE) AT 191ST STREET

SCALE: 1"=20' SHEET 64 OF 108 SHEETS STA. TO STA.

F.A.U. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
3754	01-00098-00-RS	COOK	108	64
FED. ROAD DIST. NO. 1 ILLINOIS FED. AID PROJECT			CONTRACT NO. 61A03	

TS
ECON 171

FILE NAME =	USER NAME =	DESIGNED -	REVISED -
\$FILEL\$		WPD	-
Default		PS	-
	PLOT SCALE = 1"=20'	WPD	-
	PLOT DATE = 2-23-17	DATE = 12-05-16	REVISED -



TS SHT NO. 22

TS
ECON 171

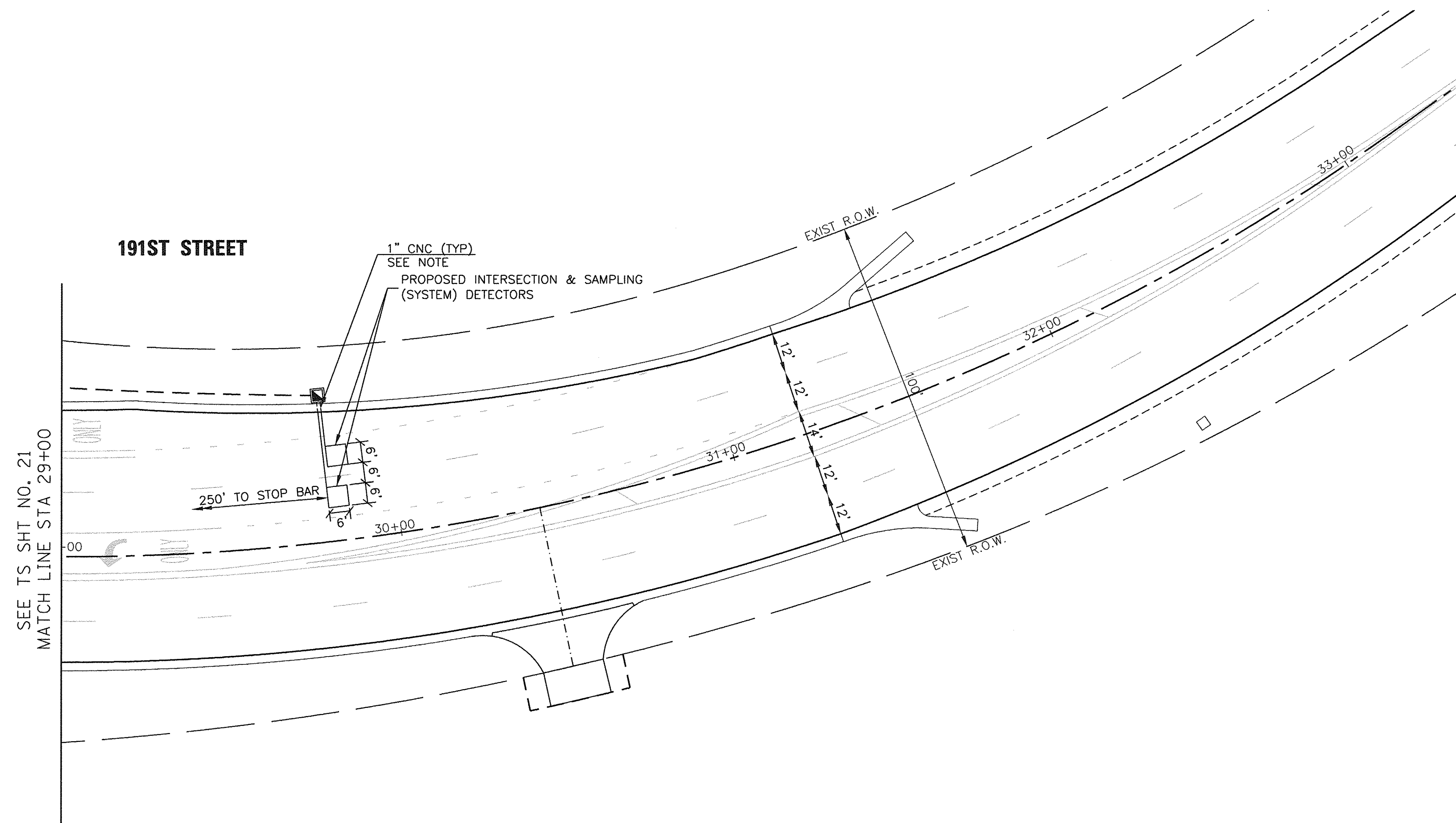
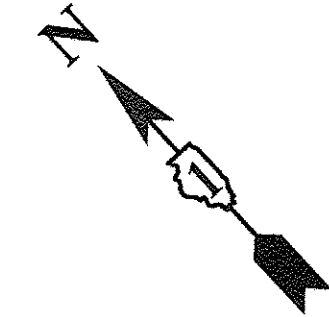
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	PLOT SCALE = 1"=20'	DATE - 12-05-16	REVISED -
	PLOT DATE = 2-23-17		

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

PROPOSED TRAFFIC SIGNAL INSTALLATION PLAN (SHEET 2 OF 3)
IL ROUTE 43 (HARLEM AVENUE) AT 191ST STREET

SCALE: 1"=20' SHEET 65 OF 108 SHEETS STA. TO STA.

F.A.U. R/F	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
3754	01-00098-00-RS	COOK	108	65
FED. ROAD DIST. NO. 1 ILLINOIS FED. AID PROJECT			CONTRACT NO. 61A03	



TS SHT NO. 23

TS
ECON 171

FILE NAME =	USER NAME =	DESIGNED - WPD	REVISED -
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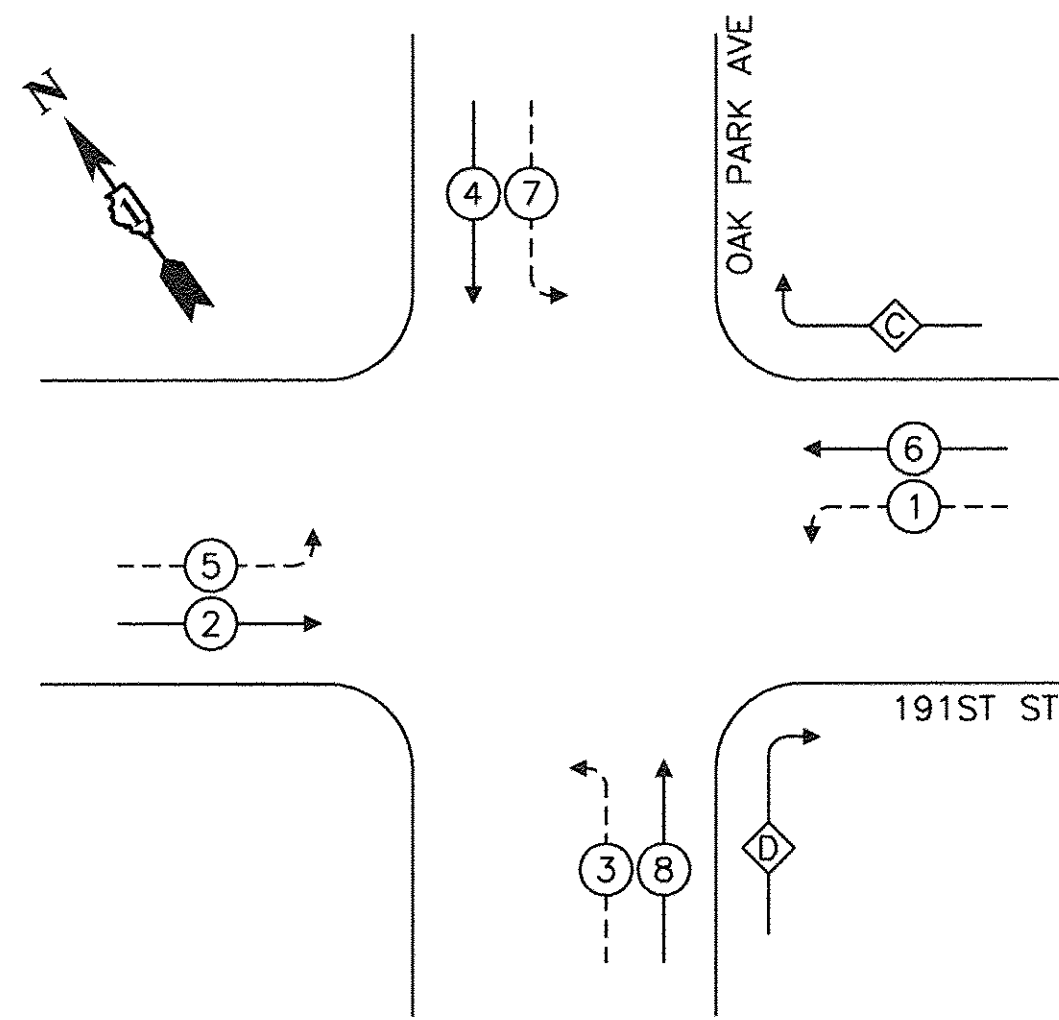
STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

PROPOSED TRAFFIC SIGNAL INSTALLATION PLAN (SHEET 3 OF 3)
IL ROUTE 43 (HARLEM AVENUE) AT 191ST STREET

SCALE: 1"=20' SHEET 66 OF 108 SHEETS STA. TO STA.

F.A.U. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
3754	01-00098-00-RS	COOK	108	66
FED. ROAD DIST. NO. 1 ILLINOIS FED. AID PROJECT			CONTRACT NO. 61A03	

PROPOSED CONTROLLER SEQUENCE



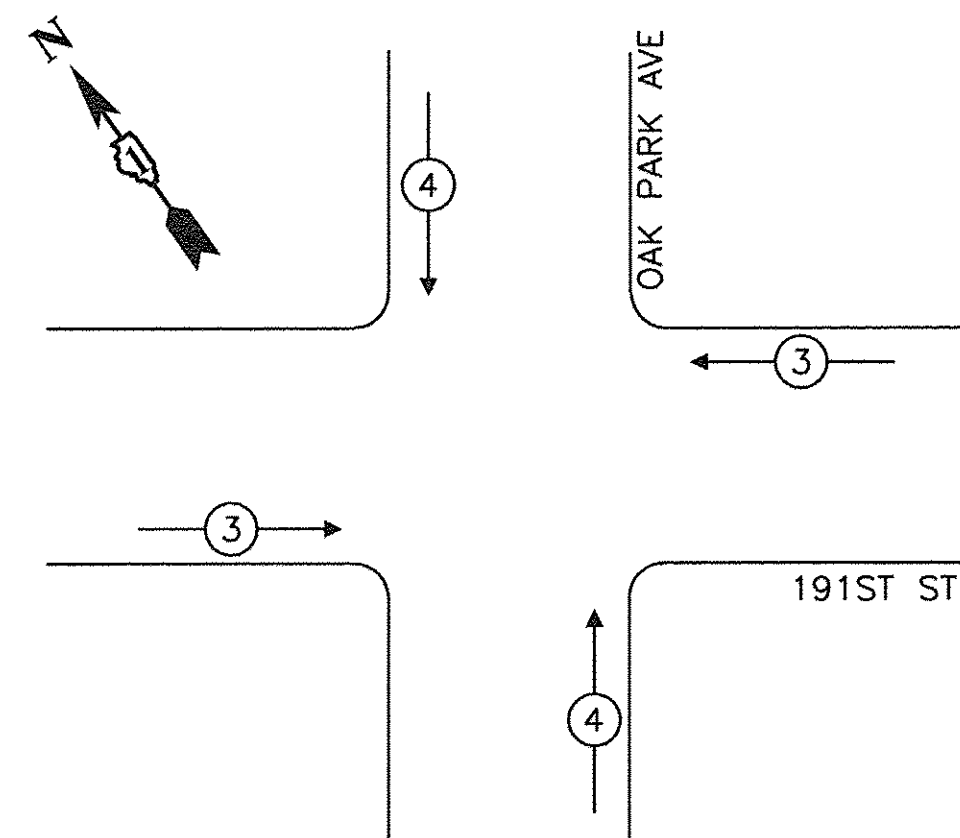
LEGEND

- ← (●) — PROTECTED PHASE
- ← (●) - - PROTECTED/PERMITTED PHASE
- ← (●) - - - PEDESTRIAN PHASE
- ◊ OL — OVERLAP

RIGHT TURN OVERLAP PHASE DESIGNATION

OVERLAP LETTER	PERMISSIVE PHASE	PROTECTED PHASE
C	= 6	+ 7
D	= 8	+ 1

PROPOSED EMERGENCY VEHICLE PREEMPTION SEQUENCE

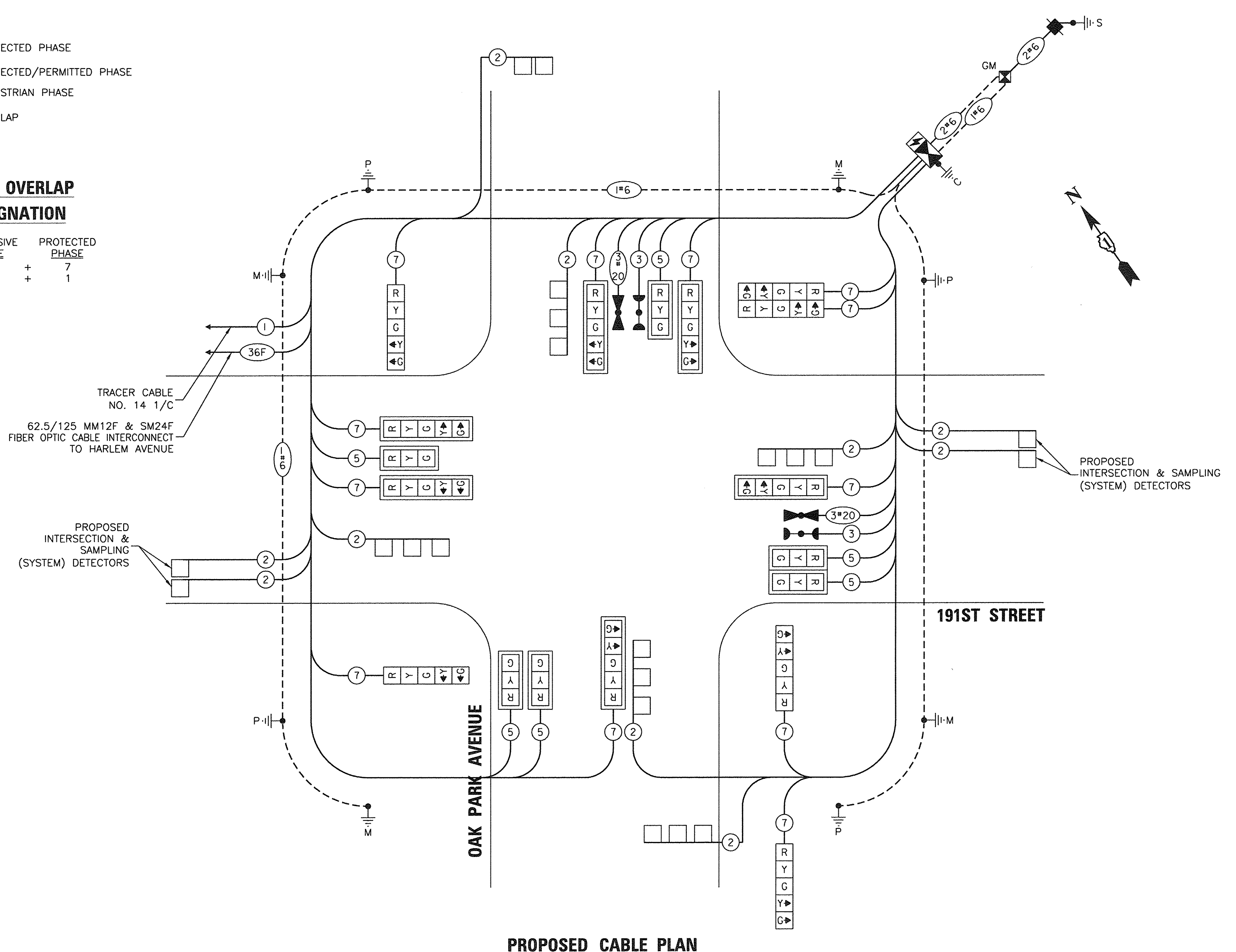


TRAFFIC SIGNAL ELECTRICAL SERVICE REQUIREMENTS

TYPE	NO. OF LAMPS	LED WATTAGE	% OPERATION	TOTAL WATTAGE
SIGNAL (RED)	18	17	0.50	153
(YELLOW)	18	25	0.25	112.5
(GREEN)	18	15	0.25	67.5
PERMISSIVE ARROW	24	12	0.10	28.8
PED. SIGNAL	-	25	1.00	-
CONTROLLER	1	100	1.00	100
UPS	1	25	1.00	25
VIDEO SYSTEM	-	-	-	-
BLANK-OUT SIGN	-	-	-	-
FLASHER	-	-	-	-
STREET NAME SIGN	-	-	-	-
LUMINAIRE	-	-	-	-
TOTAL =				486.8

ENERGY COSTS TO:
 VILLAGE OF TINLEY PARK
 16250 S. OAK PARK AVENUE
 TINLEY PARK, IL 60477

ENERGY SUPPLY: CONTACT: KATHRYN SUGRUE
 PHONE: (708) 235-2337
 COMPANY: COMED
 ACCOUNT NUMBER: 01320-11057



PROPOSED CABLE PLAN

TS SHT NO. 24

FILE NAME =	USER NAME =	DESIGNED - WPD	REVISED -
\$FILEL\$		DRAWN - PS	REVISED -
Default	PLOT SCALE = NONE	CHECKED - WPD	REVISED -
	PLOT DATE = 2-23-17	DATE - 12-05-16	REVISED -

**STATE OF ILLINOIS
 DEPARTMENT OF TRANSPORTATION**

**PROPOSED CABLE PLAN, CONTROLLER SEQUENCE
 AND EMERGENCY VEHICLE PREEMPTION SEQUENCE
 IL ROUTE 43 (HARLEM AVENUE) AT 191ST STREET**

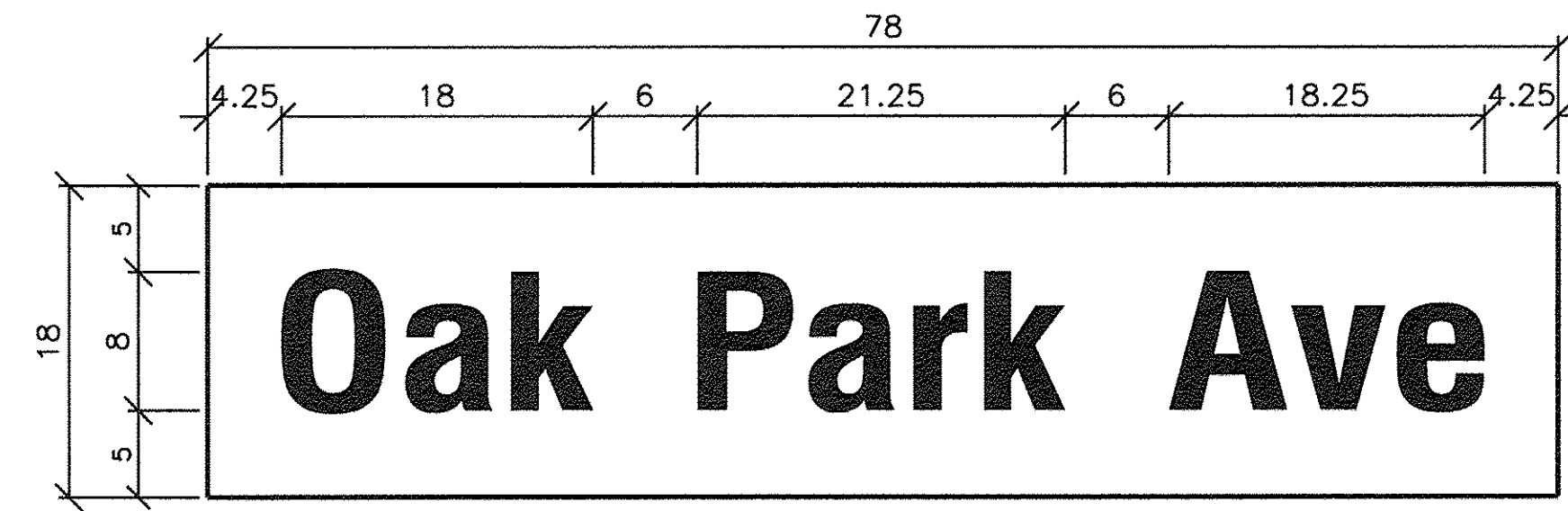
SCALE: NONE SHEET 67 OF 108 SHEETS STA. TO STA.

F.A.U. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
3754	01-00098-00-RS	COOK	108	67
				CONTRACT NO. 61A03
FED. ROAD DIST. NO. 1 ILLINOIS FED. AID PROJECT				

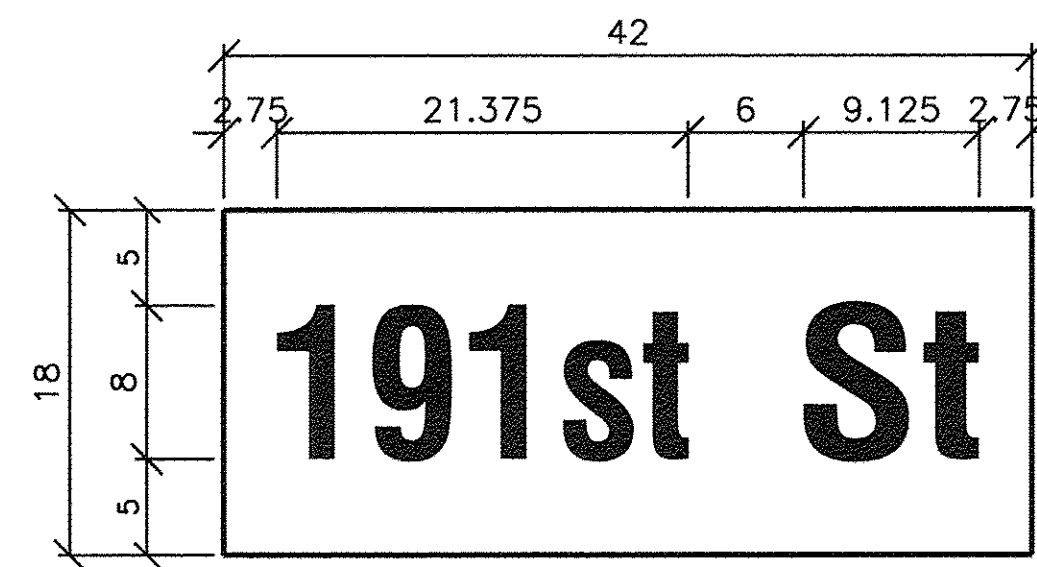
**TS
 ECON 171**

SIGN PANEL – TYPE 2

ALL DIMENSIONS ARE IN INCHES UNLESS NOTED OTHERWISE



DESIGN SERIES	AREA (SQ FT)	SIGN PANEL TYPE	SHEETING TYPE	QTY. REQUIRED
D	9.75	2	ZZ	2



DESIGN SERIES	AREA (SQ FT)	SIGN PANEL TYPE	SHEETING TYPE	QTY. REQUIRED
D	5.25	1	ZZ	2

NOTE:
FOR ADDITIONAL DESIGN AND INSTALLATION INFORMATION SEE DISTRICT 1 MAST ARM MOUNTED STREET NAME SIGNS DETAIL, AND ILLUMINATED STREET NAME SIGN MOUNTING DETAIL.

SCHEDULE OF QUANTITIES

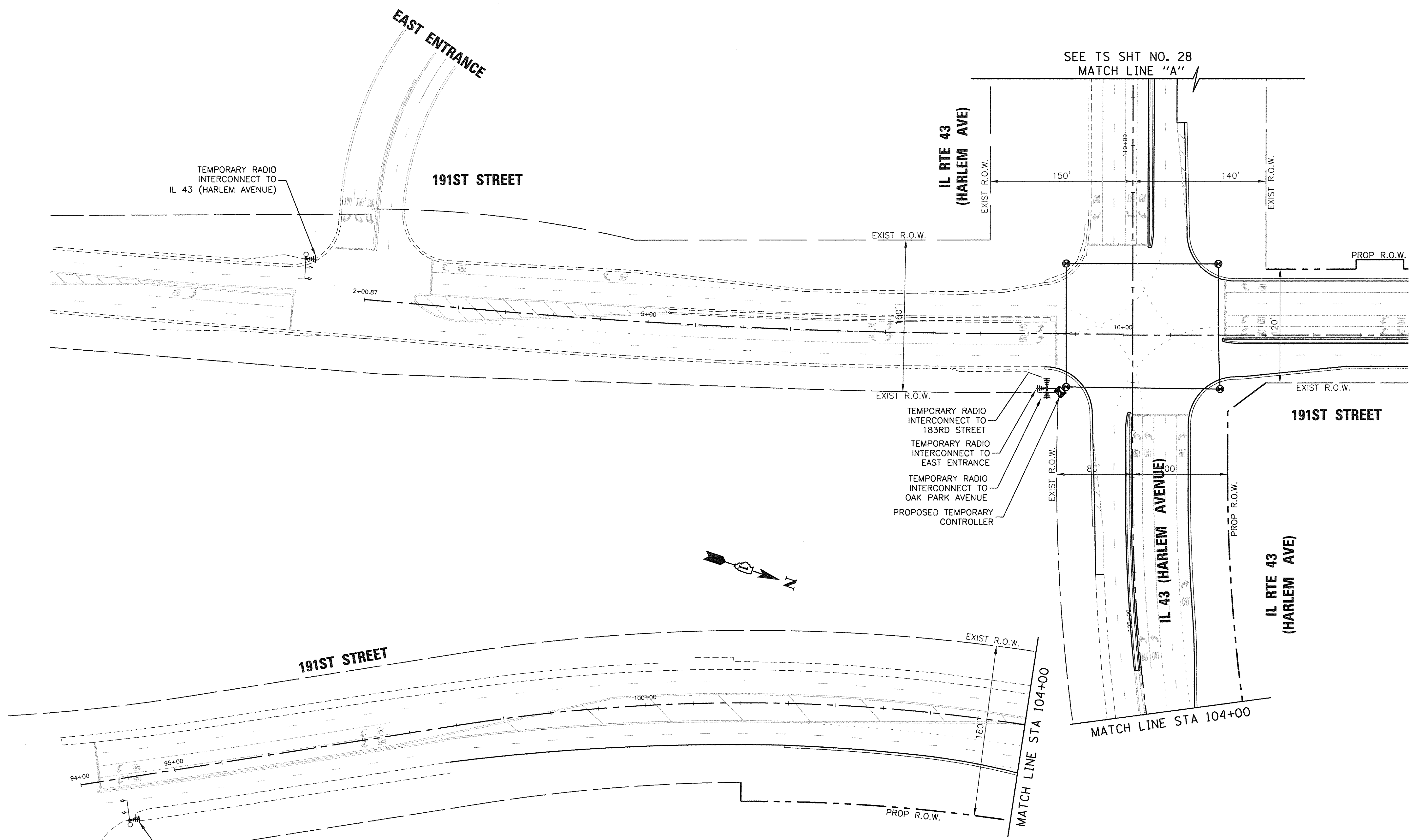
ITEM DESCRIPTION	UNITS	TOTAL QTY
SIGN PANEL – TYPE 1	SQ FT	11
SIGN PANEL – TYPE 2	SQ FT	20
UNDERGROUND CONDUIT, GALVANIZED STEEL, 2" DIA.	FOOT	1,261
UNDERGROUND CONDUIT, GALVANIZED STEEL, 3" DIA.	FOOT	111
UNDERGROUND CONDUIT, GALVANIZED STEEL, 4" DIA.	FOOT	355
HANDHOLE	EACH	5
HEAVY-DUTY HANDHOLE	EACH	6
DOUBLE HANDHOLE	EACH	1
ELECTRIC CABLE IN CONDUIT, SIGNAL NO. 14 3C	FOOT	560
ELECTRIC CABLE IN CONDUIT, SIGNAL NO. 14 5C	FOOT	1,380
ELECTRIC CABLE IN CONDUIT, SIGNAL NO. 14 7C	FOOT	2,160
ELECTRIC CABLE IN CONDUIT, LEAD-IN, NO. 14 1 PAIR	FOOT	3,070
ELECTRIC CABLE IN CONDUIT, SERVICE, NO. 6 2C	FOOT	40
ELECTRIC CABLE IN CONDUIT, EQUIPMENT GROUNDING CONDUCTOR, NO. 6 1C	FOOT	510
TRAFFIC SIGNAL POST, GALVANIZED STEEL 16 FT.	EACH	4
STEEL MAST ARM ASSEMBLY AND POLE, 42 FT.	EACH	3
STEEL MAST ARM ASSEMBLY AND POLE, 48 FT.	EACH	1
CONCRETE FOUNDATION, TYPE A	FOOT	16
CONCRETE FOUNDATION, TYPE C	FOOT	4
CONCRETE FOUNDATION, TYPE E 36-INCH DIAMETER	FOOT	52
SIGNAL HEAD, LED, 1-FACE, 3-SECTION, MAST-ARM MOUNTED	EACH	6
SIGNAL HEAD, LED, 1-FACE, 5-SECTION, BRACKET MOUNTED	EACH	6
SIGNAL HEAD, LED, 1-FACE, 5-SECTION, MAST-ARM MOUNTED	EACH	6
TRAFFIC SIGNAL BACKPLATE, LOUVERED, FORMED PLASTIC	EACH	12
DETECTOR LOOP, TYPE I	FOOT	715
LIGHT DETECTOR	EACH	2
LIGHT DETECTOR AMPLIFIER	EACH	1
EMERGENCY VEHICLE PRIORITY SYSTEM LINE SENSOR CABLE, NO. 20 3/C	FOOT	560
FULL-ACTUATED CONTROLLER AND TYPE SUPER P CABINET (SPECIAL)	EACH	1
SERVICE INSTALLATION, GROUND MOUNTED, METERED	EACH	1
UNINTERRUPTABLE POWER SUPPLY, SPECIAL	EACH	1



TS SHT NO. 25

**TS
ECON 171**

FILE NAME = \$FILEL\$	USER NAME =	DESIGNED - WPD	REVISED -	STATE OF ILLINOIS DEPARTMENT OF TRANSPORTATION	MAST ARM MOUNTED STREET NAME SIGNS AND SCHEDULE OF QUANTITIES IL ROUTE 43 (HARLEM AVENUE) AT 191ST STREET	F.A.U. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
	PLOT SCALE = NONE	CHECKED - WPD	REVISED -			3754	01-00098-00-RS	COOK	108	68
Default	PLOT DATE = 2-23-17	DATE - 12-05-16	REVISED -	SCALE: NONE	SHEET 68 OF 108 SHEETS	STA. TO STA.	FED. ROAD DIST. NO. 1	ILLINOIS	FED. AID PROJECT	CONTRACT NO. 61A03



TEMPORARY RADIO INTERCONNECT TO IL 43 (HARLEM AVENUE)

IL RTE 43 (HARLEM AVE)
EXIST R.O.W.

SEE TS SHT NO. 28
MATCH LINE "A"

PROP R.O.W.

TEMPORARY RADIO INTERCONNECT TO 183RD STREET
TEMPORARY RADIO INTERCONNECT TO EAST ENTRANCE
TEMPORARY RADIO INTERCONNECT TO OAK PARK AVENUE
PROPOSED TEMPORARY CONTROLLER

191ST STREET

IL RTE 43 (HARLEM AVE)
PROP R.O.W.

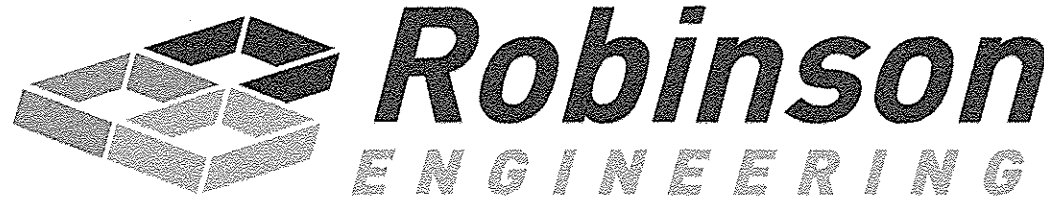
191ST STREET

MATCH LINE STA 104+00

MATCH LINE STA 104+00

TEMPORARY RADIO INTERCONNECT TO 191ST STREET

OAK PARK AVENUE

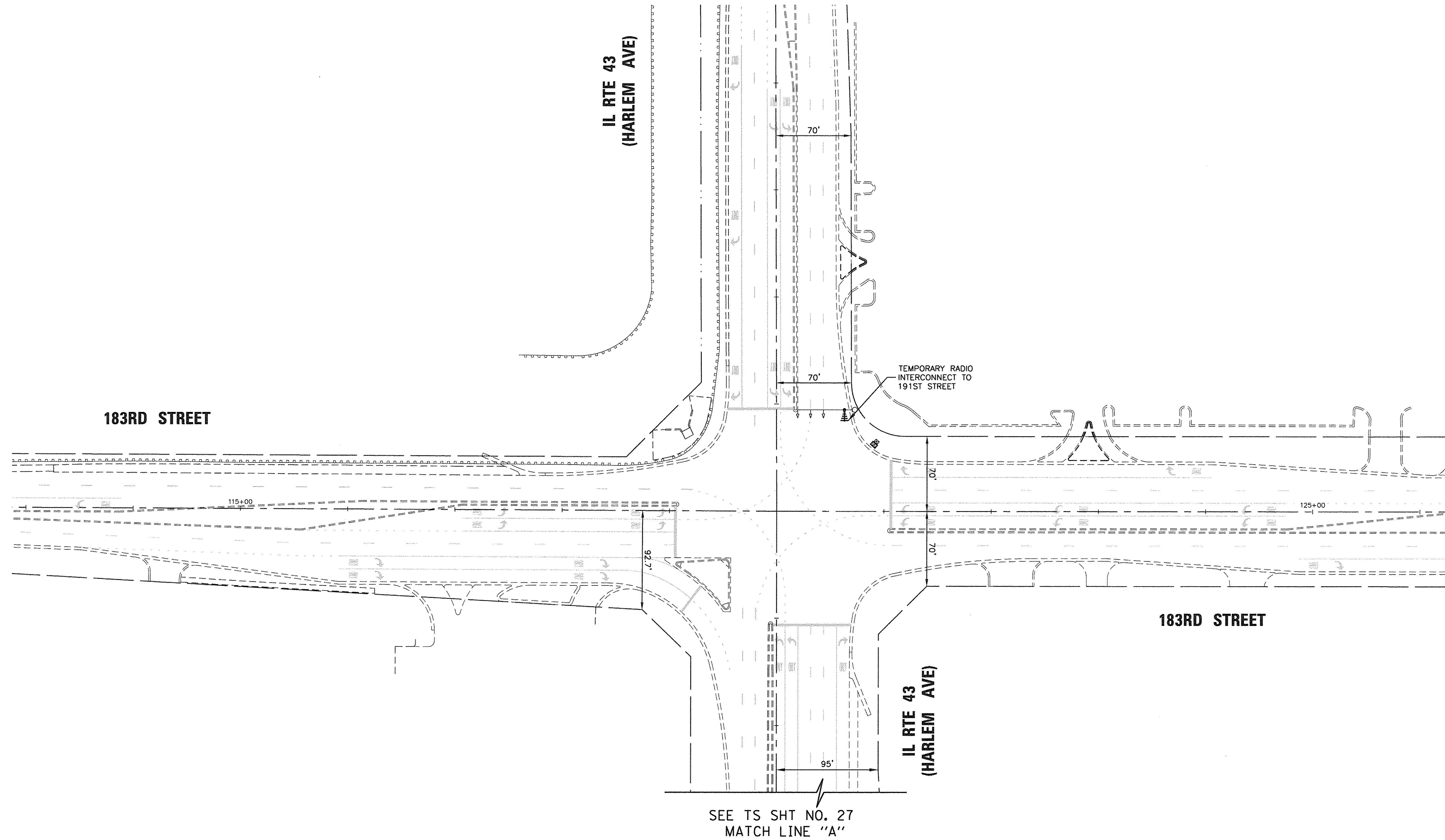


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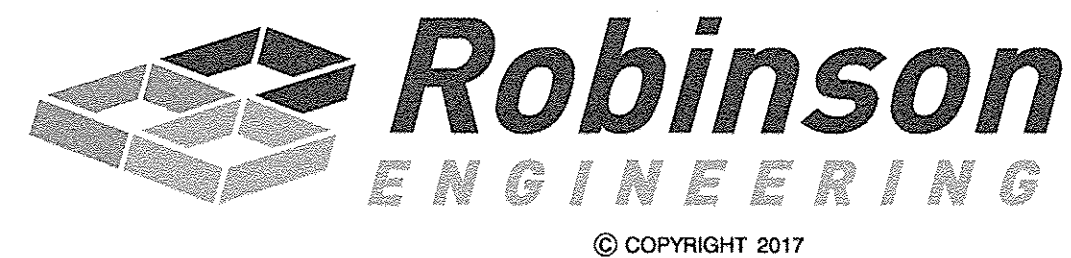
TS SHT NO. 26

ECON 171

FILE NAME =	USER NAME =	DESIGNED - WPD	REVISED -	STATE OF ILLINOIS DEPARTMENT OF TRANSPORTATION	TEMPORARY RADIO INTERCONNECT PLAN (SHEET 1 OF 2) IL ROUTE 43 (HARLEM AVENUE) AT 191ST STREET	F.A.U. RTE. 3754	SECTION 01-00098-00-RS	COUNTY COOK	TOTAL SHEETS 108	SHEET NO. 69		
\$FILEL\$	DRAWN - PS	REVISOR -	REVISIONS -			SCALE: 1"=50'	SHEET 69 OF 108 SHEETS	STA. TO STA.	FED. ROAD DIST. NO. 1 ILLINOIS FED. AID PROJECT			
Default	PLOT SCALE = 1"=50'	CHECKED - WPD	REVISIONS -									
	PLOT DATE = 2-23-17	DATE - 12-05-16	REVISIONS -									



SEE TS SHT NO. 27
MATCH LINE "A"



TS SHT NO. 27

ECON 171

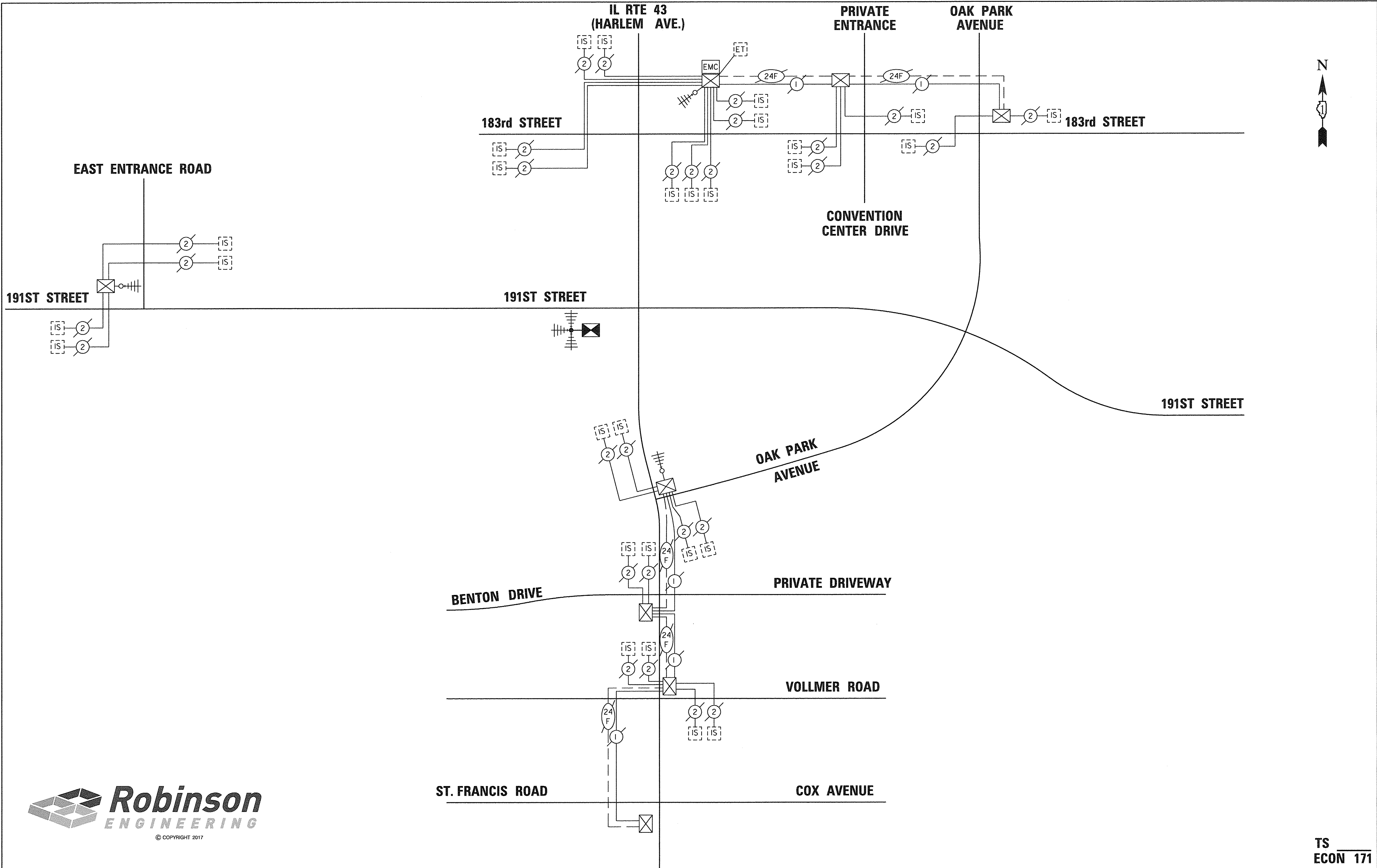
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Default	PLOT DATE = 2-23-17	DATE - 12-05-16	REVISED -

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

TEMPORARY RADIO INTERCONNECT PLAN (SHEET 2 OF 2)
IL ROUTE 43 (HARLEM AVENUE) AT 191ST STREET

SCALE: 1"=50' SHEET 70 OF 108 SHEETS STA. TO STA.

F.A.U. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
3754	01-00098-00-RS	COOK	108	70
FED. ROAD DIST. NO. 1 ILLINOIS FED. AID PROJECT			CONTRACT NO. 61A03	



TS SHT NO. 28

TS
ECON 171

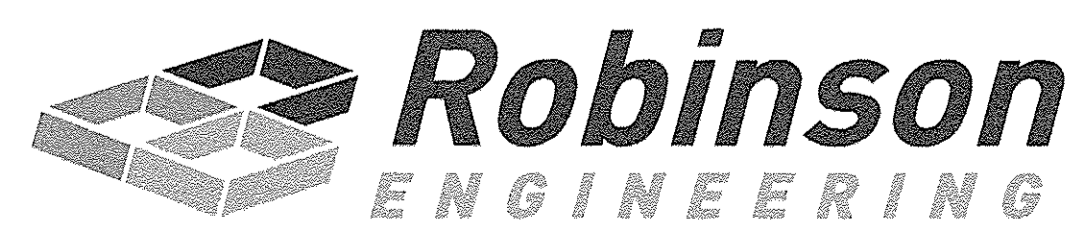
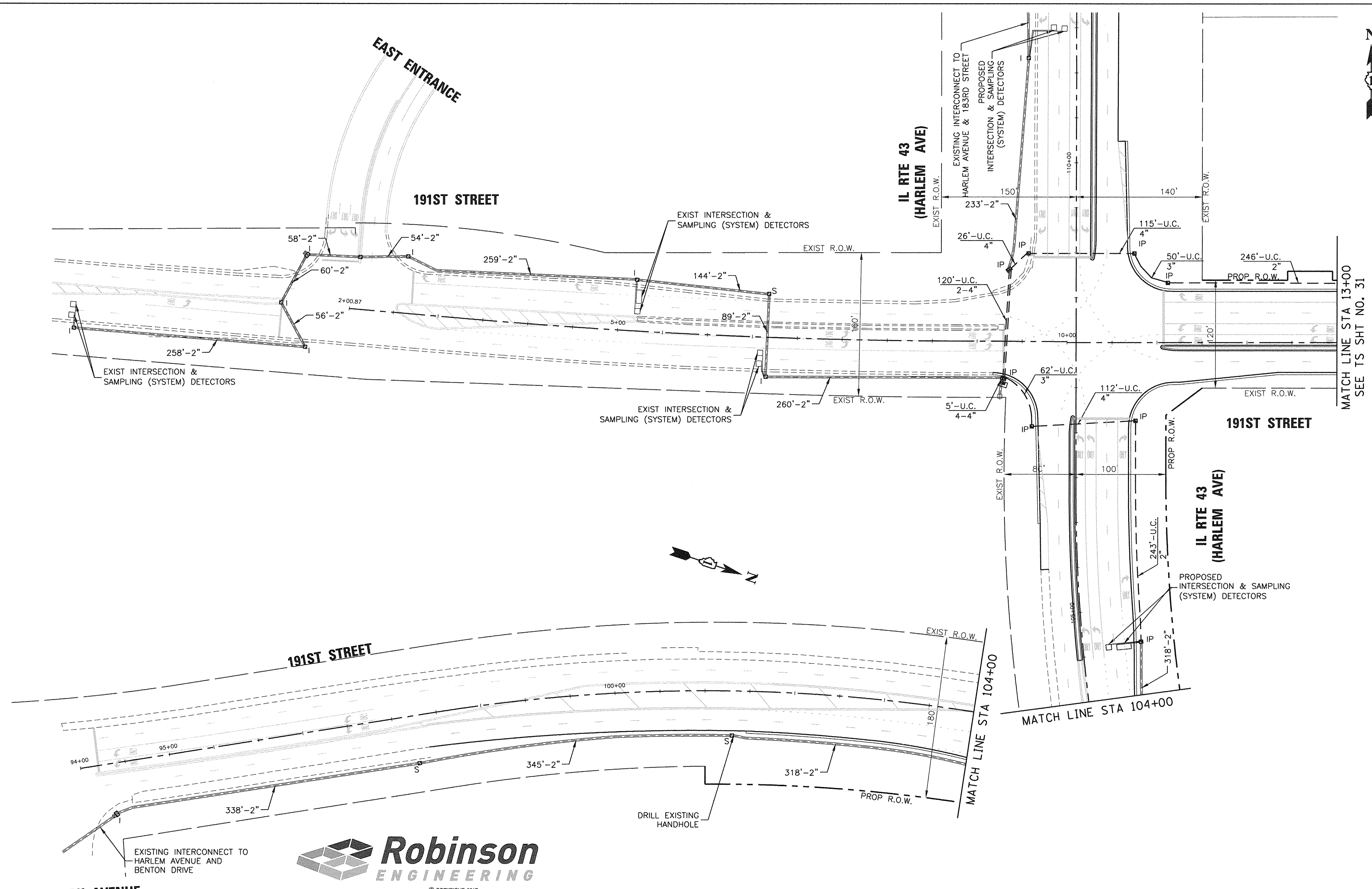
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STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

TEMPORARY RADIO INTERCONNECT SCHEMATIC
IL ROUTE 43 (HARLEM AVENUE) AT 191ST STREET

SCALE: NONE SHEET 71 OF 108 SHEETS STA. TO STA.

F.A.U. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
3754	01-00098-00-RS	COOK	108	71
FED. ROAD DIST. NO. 1 ILLINOIS FED. AID PROJECT			CONTRACT NO. 61A03	



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TS SHT NO. 29

OAK PARK AVENUE

FILE NAME =
\$FILEL\$
Default

USER NAME =
PLOT SCALE = 1"=50'
PLOT DATE = 2-23-17

DESIGNED - WPD
DRAWN - PS
CHECKED - WPD
DATE - 12-05-16

REVISED -
REVISED -
REVISED -
REVISED -

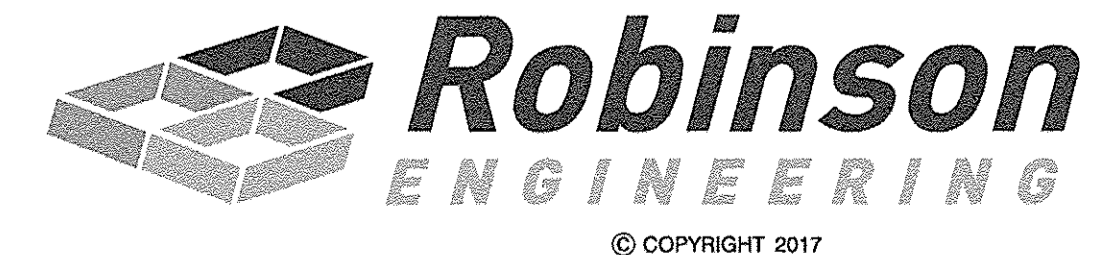
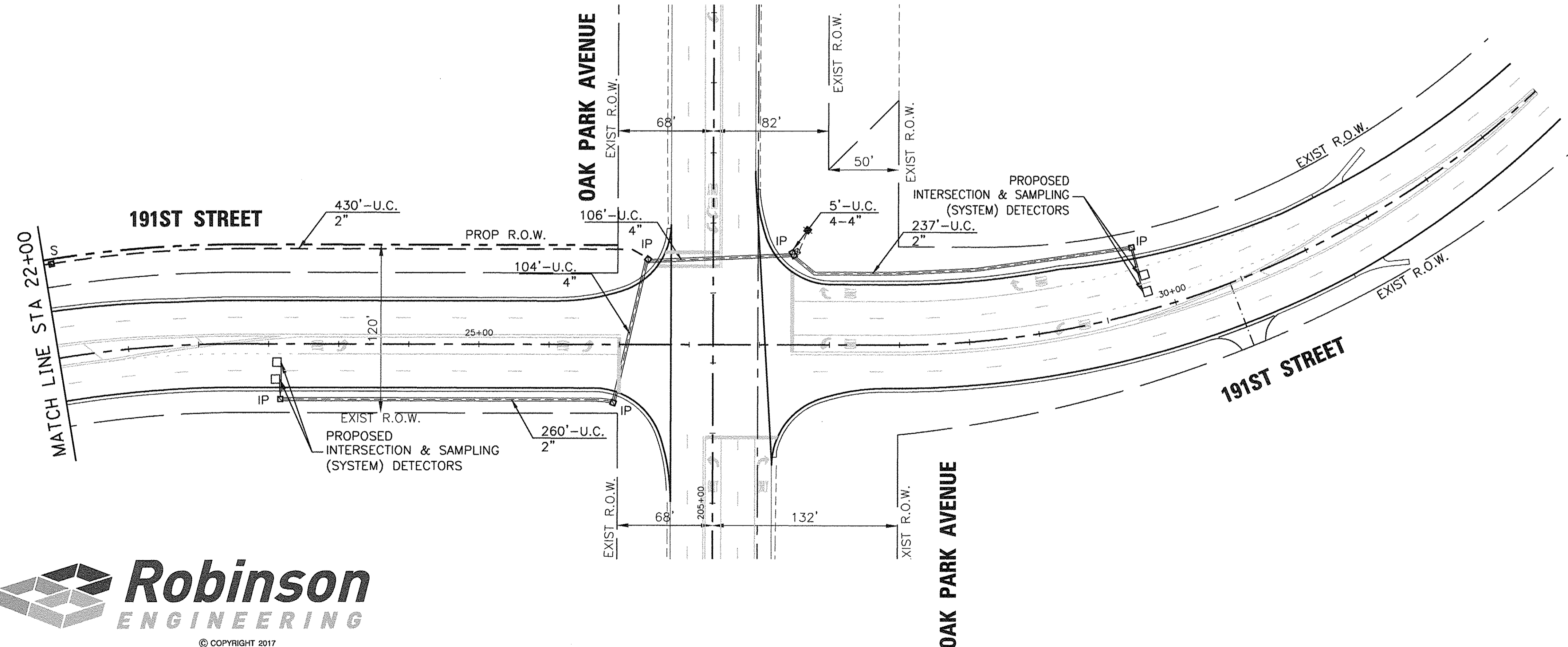
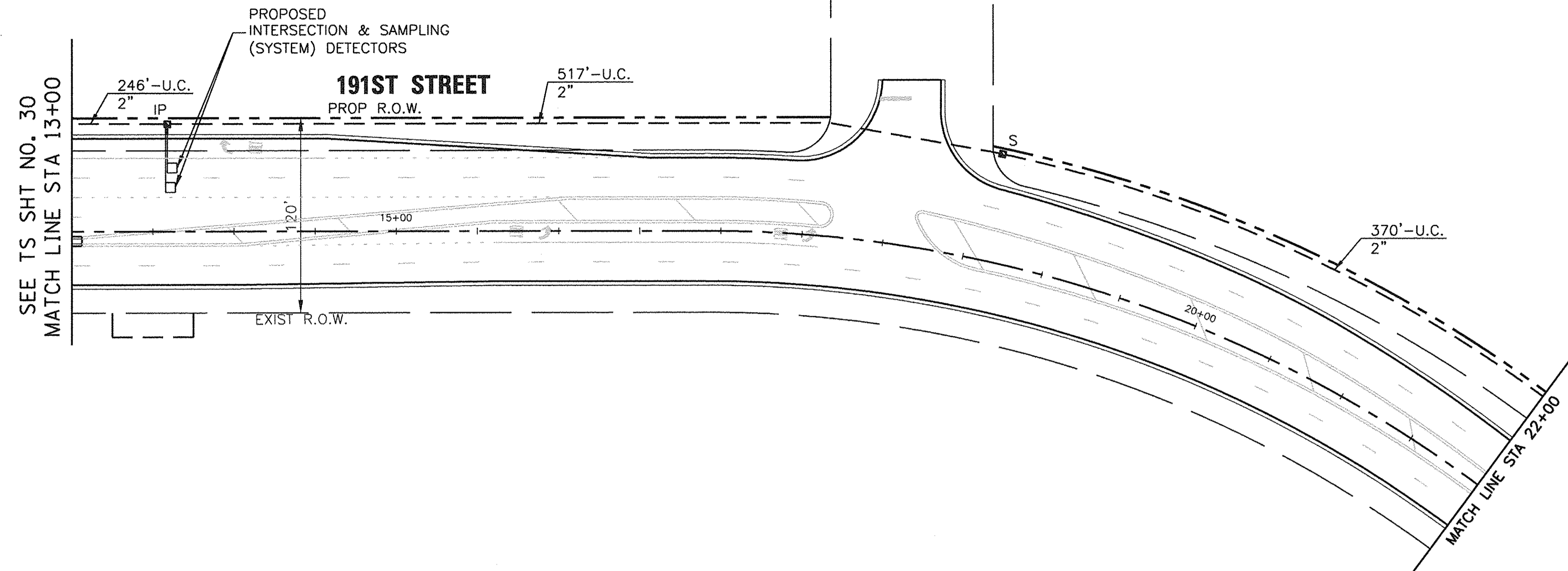
STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

PROPOSED TRAFFIC SIGNAL INTERCONNECT PLAN (SHEET 1 OF 2)
IL ROUTE 43 (HARLEM AVENUE) AT 191ST STREET

SCALE: 1"=50' SHEET 72 OF 108 SHEETS STA. TO STA.

F.A.U. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
3754	01-00098-00-RS	COOK	108	72
FED. ROAD DIST. NO. 1 ILLINOIS FED. AID PROJECT			CONTRACT NO. 61A03	

ECON 171



TS SHT NO. 30

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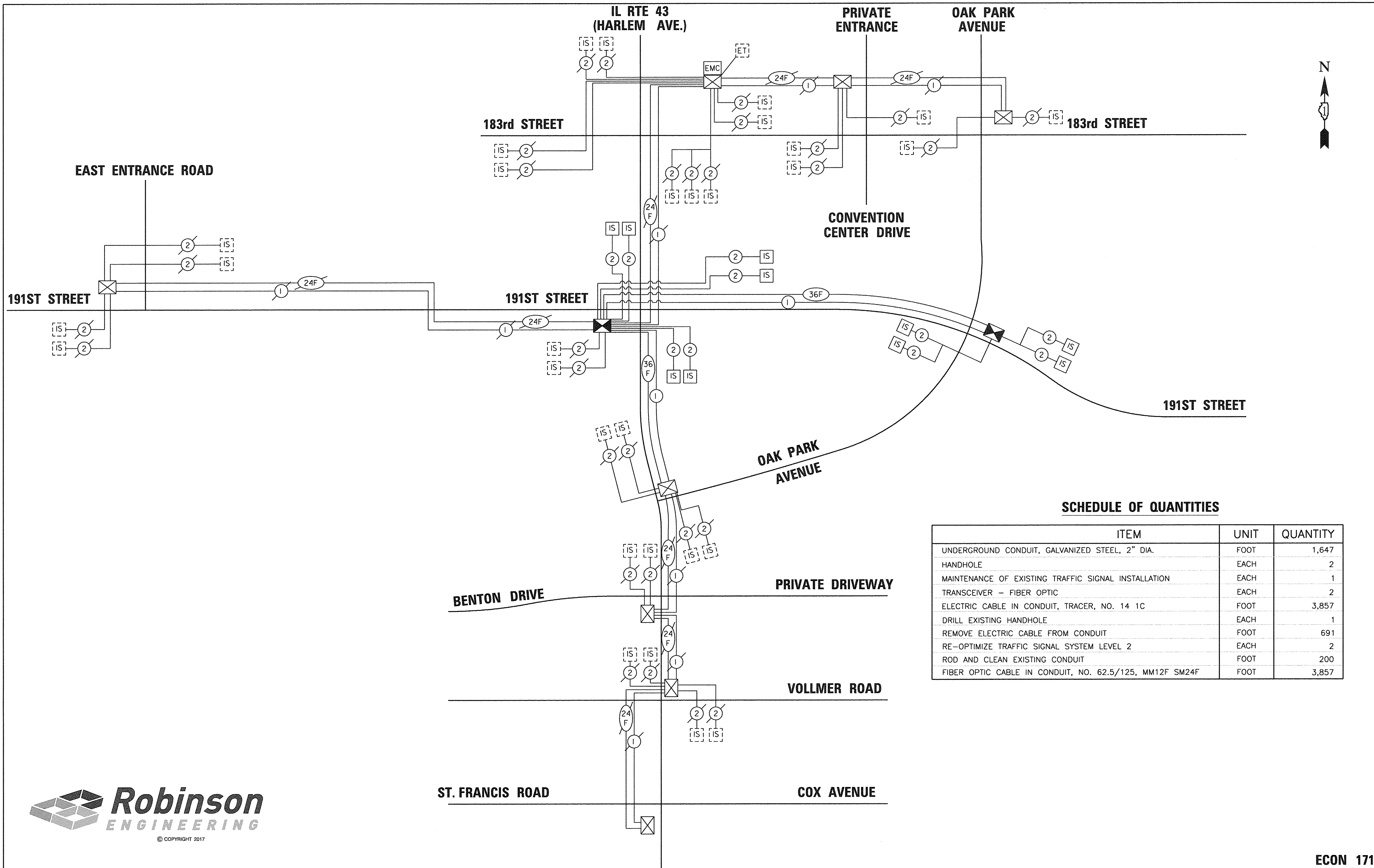
STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

PROPOSED TRAFFIC SIGNAL INTERCONNECT PLAN (SHEET 2 OF 2)
IL ROUTE 43 (HARLEM AVENUE) AT 191ST STREET

SCALE: 1"=50' SHEET 73 OF 108 SHEETS STA. TO STA.

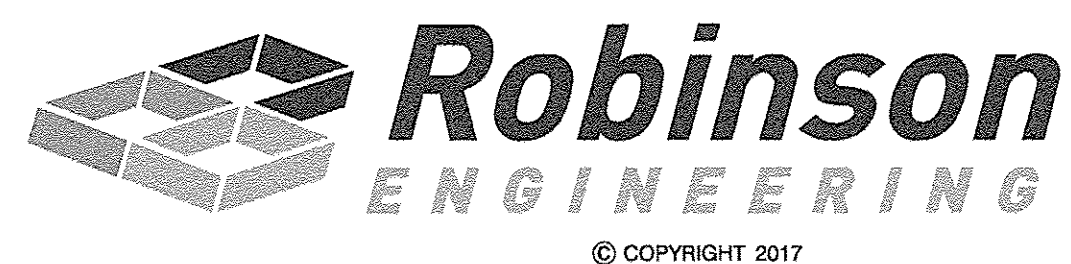
F.A.U. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
3754	01-00098-00-R5	COOK	108	73
FED. ROAD DIST. NO. 1 ILLINOIS FED. AID PROJECT			CONTRACT NO. 61A03	

ECON 171



SCHEDULE OF QUANTITIES

ITEM	UNIT	QUANTITY
UNDERGROUND CONDUIT, GALVANIZED STEEL, 2" DIA.	FOOT	1,647
HANDHOLE	EACH	2
MAINTENANCE OF EXISTING TRAFFIC SIGNAL INSTALLATION	EACH	1
TRANSCEIVER - FIBER OPTIC	EACH	2
ELECTRIC CABLE IN CONDUIT, TRACER, NO. 14 1C	FOOT	3,857
DRILL EXISTING HANDHOLE	EACH	1
REMOVE ELECTRIC CABLE FROM CONDUIT	FOOT	691
RE-OPTIMIZE TRAFFIC SIGNAL SYSTEM LEVEL 2	EACH	2
ROD AND CLEAN EXISTING CONDUIT	FOOT	200
FIBER OPTIC CABLE IN CONDUIT, NO. 62.5/125, MM12F SM24F	FOOT	3,857



TS SHT NO. 29

FILE NAME =	USER NAME =	DESIGNED - WPD	REVISED -
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Default		CHECKED - WPD	REVISED -
	PLOT DATE = 2-23-17	DATE - 12-05-16	REVISED -

**STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION**

**PROPOSED INTERCONNECT SCHEMATIC
IL ROUTE 43 (HARLEM AVENUE) AT 191ST STREET**

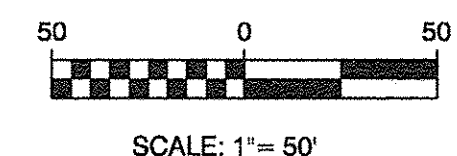
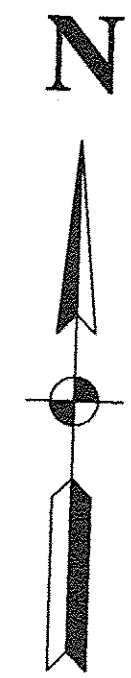
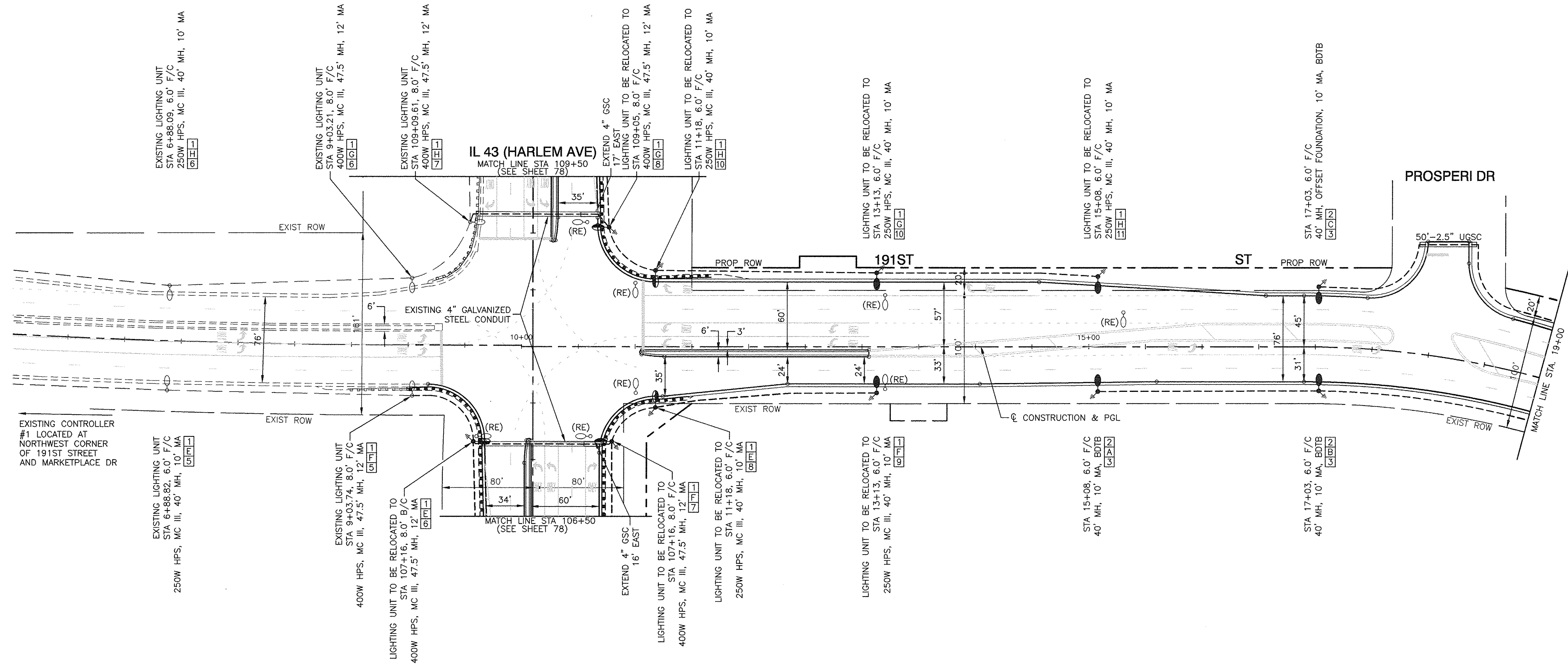
SCALE: NONE | SHEET 74 OF 108 SHEETS | STA. TO STA.

F.A.U. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
3754	01-00098-00-RS	COOK	108	74
FED. ROAD DIST. NO. 1 ILLINOIS FED. AID PROJECT			CONTRACT NO. 61A03	

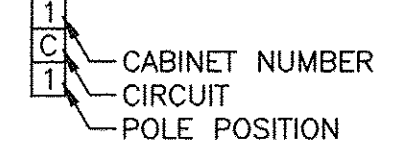
ECON 171

PLAN	SURVEYED	DATE
NO.	BY	
	PLOTTED	
	BY	
	DATE	
	NOTED	
	BY	
	DATE	

PROFILE	SURVEYED	DATE
NO.	BY	
	PLOTTED	
	BY	
	DATE	
	NOTED	
	BY	
	DATE	



POLE IDENTIFICATION



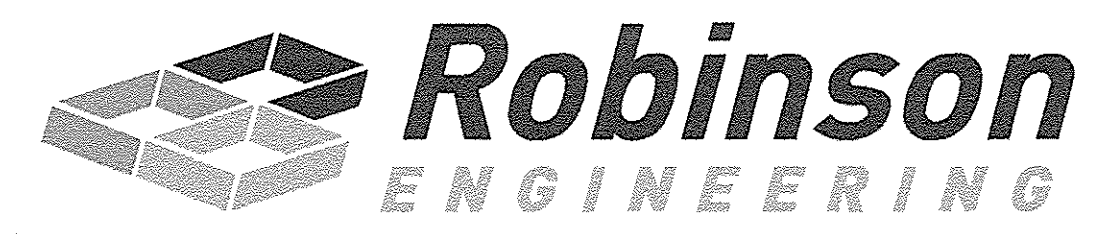
- ○ EXISTING STREET LIGHT
- ○ PROPOSED OR RELOCATED STREET LIGHT, 400W HPS
- ○ PROPOSED OR RELOCATED STREET LIGHT, 250W HPS
- ⊠ EXISTING CONTROLLER
- ⊠ PROPOSED CONTROLLER, CONSOLE TYPE
- ⊠ COMED POWER POLE FOR SERVICE CONNECTION
- — UNDERGROUND CONDUIT, GALVANIZED STEEL
- - - UNIT DUCT, W/ 3-1/C, NO.4 AWG AND 1/C NO.6 GROUND, 600V (XLP TYPE USE) IN 1-1/2" DIAMETER POLYETHYLENE
- — SERVICE WIRE, IN CONDUIT, 2.5" (SEE LIGHTING CONTROLLER PLAN FOR WIRE SIZE)

LEGEND:

- ⊠ GR GROUND ROD, 5/8" DIA. x 10'
- (R) REMOVAL OF EXISTING STREET LIGHT (IDOT SALVAGE)
- (RE) RELOCATE EXISTING LIGHTING UNIT
- (RO) REMOVAL OF EXISTING STREET LIGHT (BY OTHERS)
- LT LEFT
- RT RIGHT
- MH MOUNTING HEIGHT
- MA MAST ARM
- F/C FACE OF CURB TO CENTER OF POLE
- B/EP BEHIND EDGE OF PAVEMENT TO CENTER OF POLE
- BDTB BREAKAWAY DEVICE, TRANSFORMER BASE, 15" BOLT CIRCLE
- UGSC UNDERGROUND GALVANIZED STEEL CONDUIT

LIGHTING PLANS AND DETAILS
PREPARED BY:

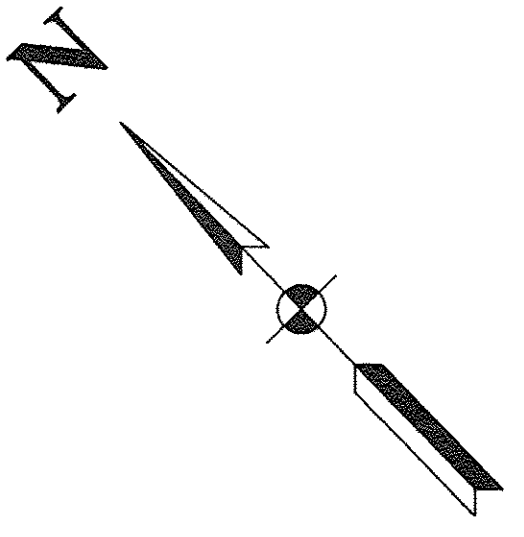
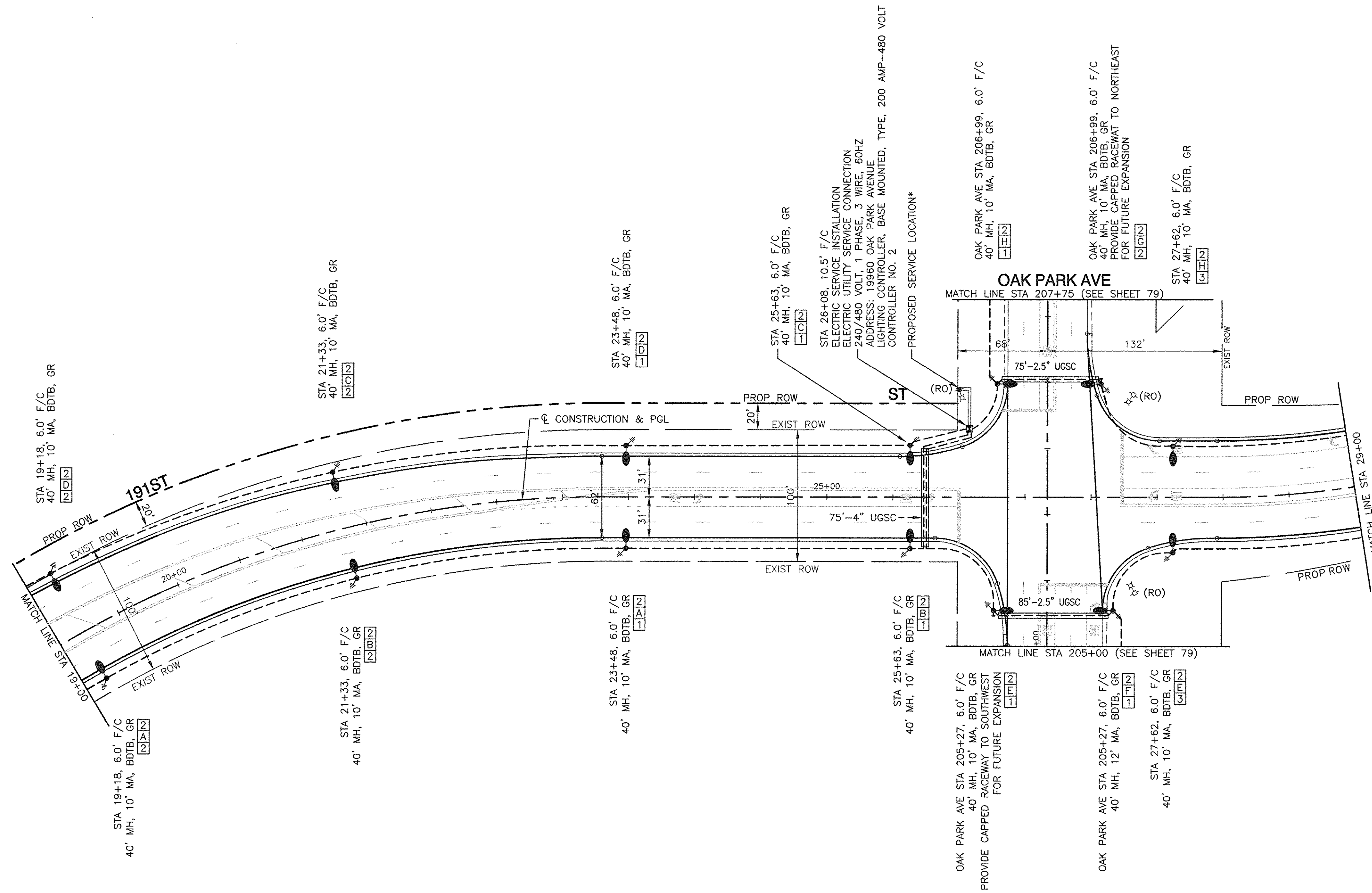
David W. Skillin
12/01/2016



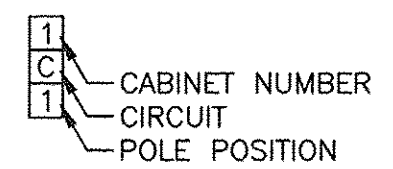
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	PLOT SCALE = 1"=50'	CHECKED = WPD	REVISD =		SCALE: 1"=50'	SHEET NO. 75 OF 108 SHEETS	STA.	TO STA.	FED. ROAD DIST. NO. 1	ILLINOIS	FED. AID PROJECT	CONTRACT NO. 61A03
	PLOT DATE = 12-05-16	DRAWN = ACAD	REVISD =									
		CHECKED = ACAD	REVISD =									

PLAN	SURVEYED	BY	DATE
NOTE BOOK NO.	PLOTTED		
	CHECKED		
	BY		
	DATE		

PROFILE	SURVEYED	BY	DATE
NOTE BOOK NO.	PLOTTED		
	CHECKED		
	BY		
	DATE		



POLE IDENTIFICATION

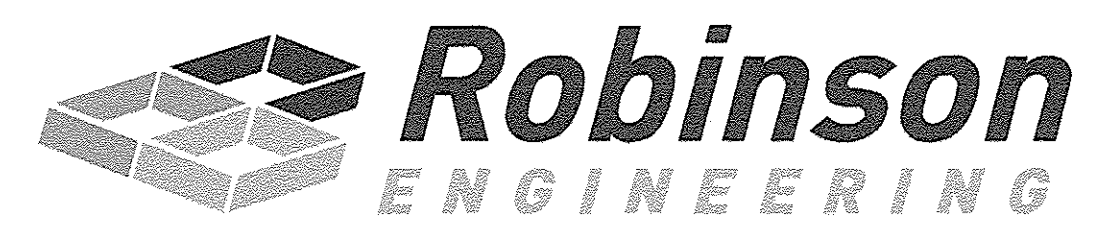
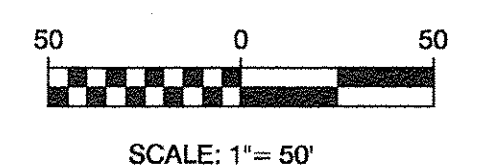


- EXISTING STREET LIGHT
- PROPOSED OR RELOCATED STREET LIGHT, 400W HPS
- PROPOSED OR RELOCATED STREET LIGHT, 250W HPS
- ⊠ EXISTING CONTROLLER
- ⊠ PROPOSED CONTROLLER, CONSOLE TYPE
- ⊠ COMED POWER POLE FOR SERVICE CONNECTION
- UNDERGROUND CONDUIT, GALVANIZED STEEL
- - - UNIT DUCT, W/ 3-1/C, NO.4 AWG AND 1/C NO.6 GROUND, 600V (XLP TYPE USE) IN 1-1/2" DIAMETER POLYETHYLENE
- SERVICE WIRE, IN CONDUIT, 2.5" (SEE LIGHTING CONTROLLER PLAN FOR WIRE SIZE)

LEGEND:

- GR GROUND ROD, 5/8" DIA. x 10'
- (R) REMOVAL OF EXISTING STREET LIGHT (IDOT SALVAGE)
- (RE) RELOCATE EXISTING LIGHTING UNIT
- (RO) REMOVAL OF EXISTING STREET LIGHT (BY OTHERS)
- LT LEFT
- RT RIGHT
- MH MOUNTING HEIGHT
- MA MAST ARM
- F/C FACE OF CURB TO CENTER OF POLE
- B/EP BEHIND EDGE OF PAVEMENT TO CENTER OF POLE
- BDTB BREAKAWAY DEVICE, TRANSFORMER BASE, 15" BOLT CIRCLE
- UGSC UNDERGROUND GALVANIZED STEEL CONDUIT

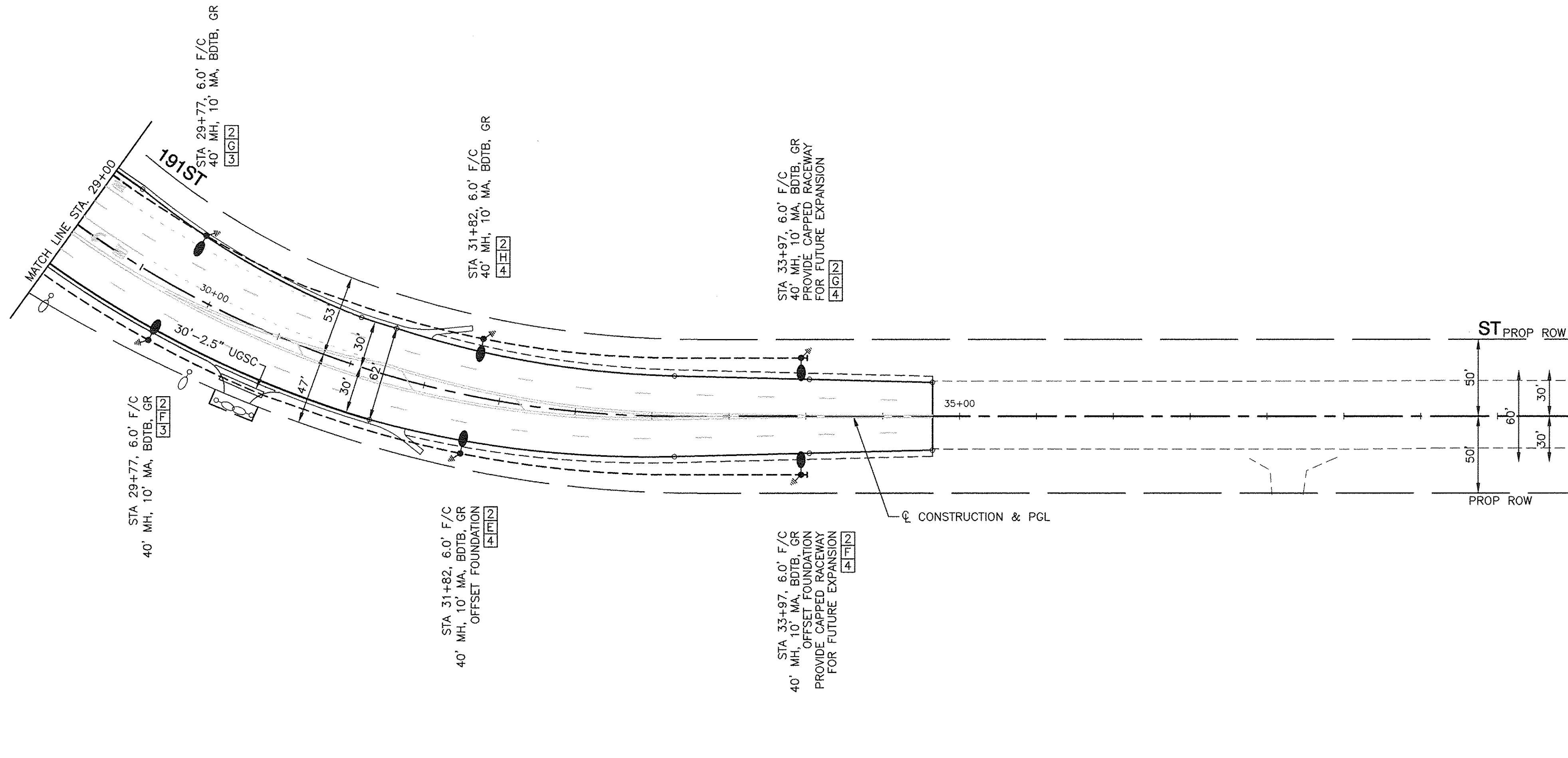
***NOTE:**
THE COMED CONTACT FOR THE PROPOSED ELECTRICAL SERVICE IS CATHERINE SUGRUE AT (708) 235-2337.



FILE NAME = 04252-LGHT-01	USER NAME =	DESIGNED — WPD	REVISED —	STATE OF ILLINOIS DEPARTMENT OF TRANSPORTATION	191ST STREET IMPROVEMENTS STREET LIGHTING PLANS 191ST STREET - STA 19+00 TO STA 29+00			FA.U. RTE. 3754	SECTION 01-00098-00-RS	COUNTY COOK	TOTAL SHEETS 108	SHEET NO. 76
	PLOT SCALE = 1"=50'	CHECKED — WPD	REVISED —		SCALE: 1"=50	SHEET NO. 76	OF 108 SHEETS	STA. TO STA.	CONTRACT NO. 61A03			
	PLOT DATE = 12-05-16	DRAWN — ACAD	REVISED —		FED. ROAD DIST. NO. 1 ILLINOIS FED. AID PROJECT							
		CHECKED — ACAD	REVISED —									

PLAN	SURVEYED	BY	DATE
	ALIGNED	CHECKED	
	NOTE BOOK NO.	CADD FILE NAME	

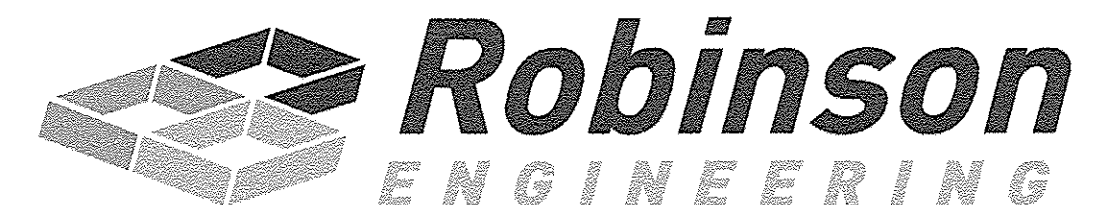
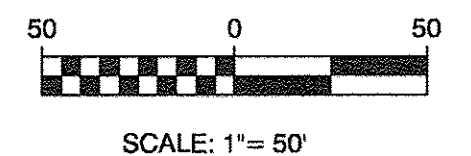
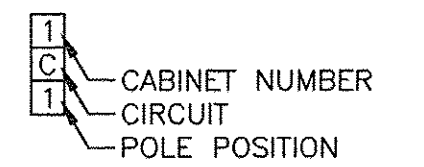
PROFILE	SURVEYED	BY	DATE
	GRADES	CHECKED	
	NOTE BOOK NO.	B.M. NOTED	



LEGEND:

- EXISTING STREET LIGHT
- PROPOSED OR RELOCATED STREET LIGHT, 400W HPS
- PROPOSED OR RELOCATED STREET LIGHT, 250W HPS
- ⊠ EXISTING CONTROLLER
- ⊠ PROPOSED CONTROLLER, CONSOLE TYPE
- ⊠ COMED POWER POLE FOR SERVICE CONNECTION
- UNDERGROUND CONDUIT, GALVANIZED STEEL
- UNIT DUCT, W/ 3-1/C, NO.4 AWG AND 1/C NO.6 GROUND, 600V (XLP TYPE USE) IN 1-1/2" DIAMETER POLYETHYLENE
- SERVICE WIRE, IN CONDUIT, 2.5" (SEE LIGHTING CONTROLLER PLAN FOR WIRE SIZE)
- ⊠ GR GROUND ROD, 5/8" DIA. x 10'
- (R) REMOVAL OF EXISTING STREET LIGHT (IDOT SALVAGE)
- (RE) RELOCATE EXISTING LIGHTING UNIT
- (RO) REMOVAL OF EXISTING STREET LIGHT (BY OTHERS)
- LT LEFT
- RT RIGHT
- MH MOUNTING HEIGHT
- MA MAST ARM
- F/C FACE OF CURB TO CENTER OF POLE
- B/EP BEHIND EDGE OF PAVEMENT TO CENTER OF POLE
- BDTB BREAKAWAY DEVICE, TRANSFORMER BASE, 15" BOLT CIRCLE
- UGSC UNDERGROUND GALVANIZED STEEL CONDUIT

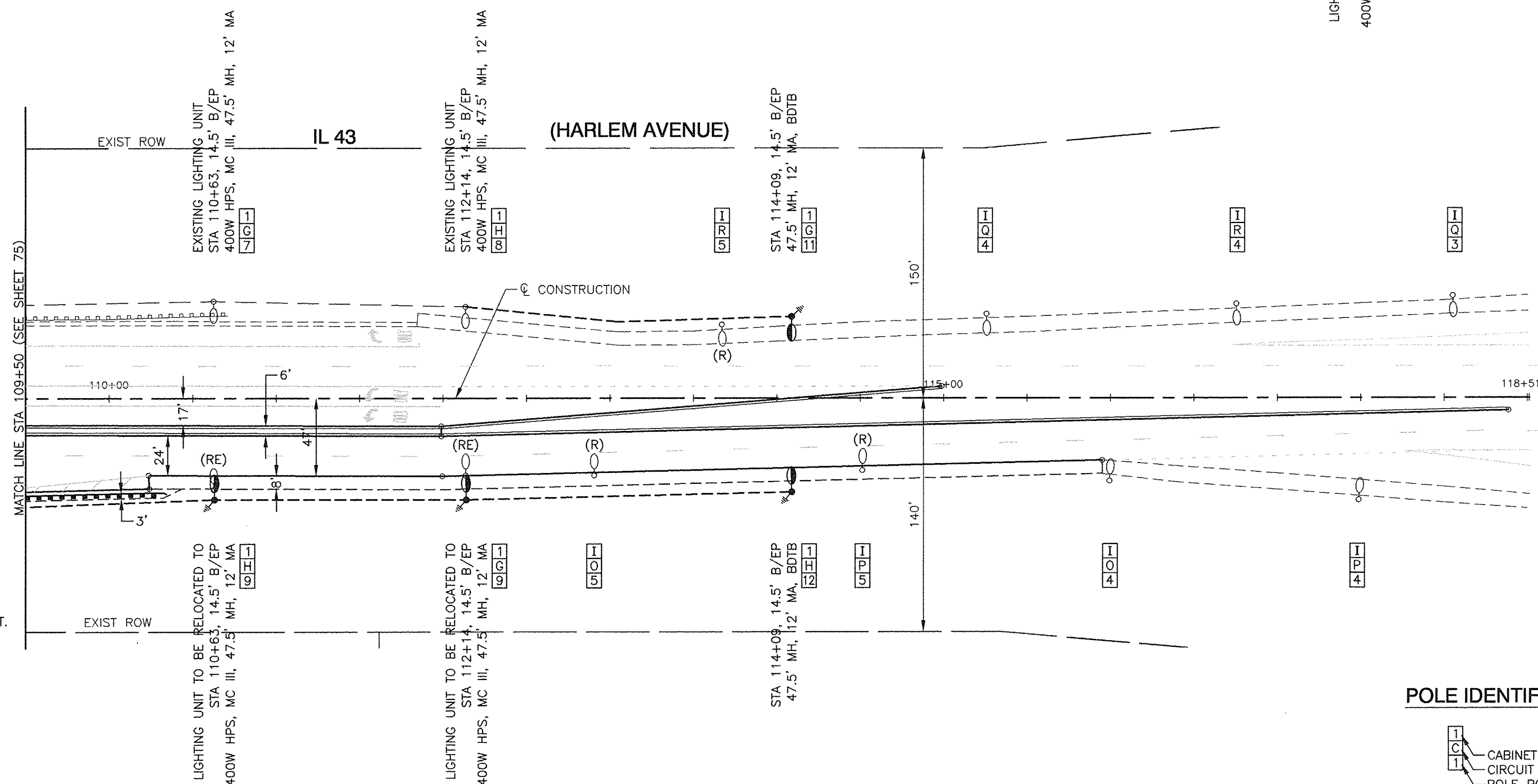
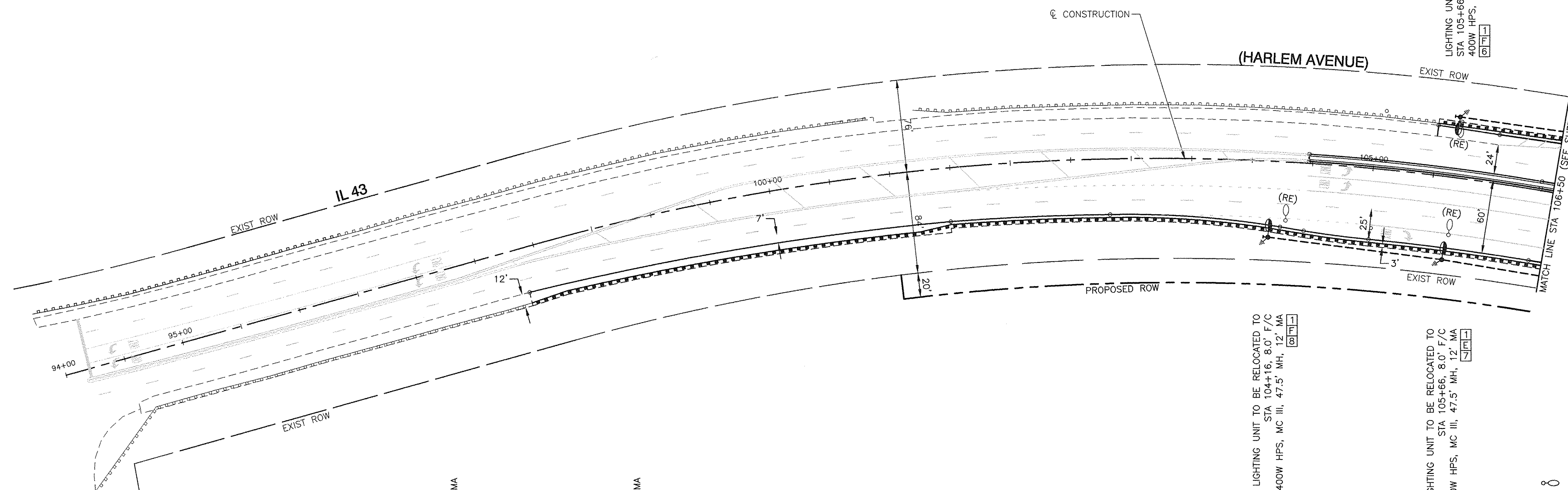
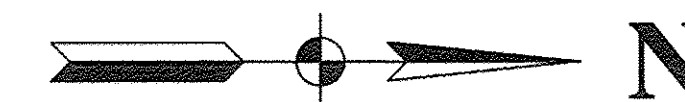
POLE IDENTIFICATION



FILE NAME = 04252-LGHT-01	USER NAME =	DESIGNED — WPD	REVISED —	STATE OF ILLINOIS DEPARTMENT OF TRANSPORTATION	191ST STREET IMPROVEMENTS STREET LIGHTING PLANS 191ST STREET - STA 29+00 TO END IMPROVEMENTS			F.A.U. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
	PLOT SCALE = 1"=50'	CHECKED — WPD	REVISED —		3754	01-00098-00-RS	COOK	108	77			
	PLOT DATE = 12-05-16	DRAWN — ACAD	REVISED —		CONTRACT NO. 61A03							
		CHECKED — ACAD	REVISED —		SCALE: 1"=50'	SHEET NO. 77 OF 108 SHEETS	STA. TO STA.	FED. ROAD DIST. NO. 1	ILLINOIS	FED. AID PROJECT		

PLAN	SURVEYED	BY	DATE
	PLOTTED		
	CHECKED		
	NOTED		
NOTE BOOK NO.	FILE NAME		

PROFILE	SURVEYED	BY	DATE
	PLOTTED		
	CHECKED		
	NOTED		
NOTE BOOK NO.	FILE NAME		



- NOTE:**
EXISTING LIGHTING UNITS THAT ARE CONNECTED TO CABINET "1" ARE OWNED BY IDOT. THE FOLLOWING SHALL APPLY TO ALL IDOT OWNED LIGHTING UNITS:
1. THE CONTRACTOR SHALL COORDINATE WITH THE IDOT ELECTRICAL MAINTENANCE DEPARTMENT BEFORE AND DURING CONSTRUCTION AT (708) 524-2145.
 2. AT ALL TIMES, EQUIPMENT GROUND SHALL BE CONTINUOUS FROM THE CONTROLLER TO THE LAST POLE OF EACH CIRCUIT. RESISTANCE SHALL CONFORM TO IDOT SPECIFICATIONS.
 3. REMOVAL OF UNIT DUCT AND CONDUCTORS TO THE NEXT REMAINING POLE IN LINE SHALL BE INCLUDED IN THE REMOVAL OF LIGHTING UNITS.
 4. REMOVED LIGHTING UNITS SHALL BE DELIVERED TO THE LOCAL IDOT MAINTENANCE YARD.
 5. IDOT IS NOT PART OF JULIE. THE CONTRACTOR SHALL CALL IDOT ELECTRICAL MAINTENANCE DEPARTMENT AT (708) 524-2145 PRIOR TO BEGINNING ANY UNDERGROUND WORK ON THE IDOT LIGHTING SYSTEM.

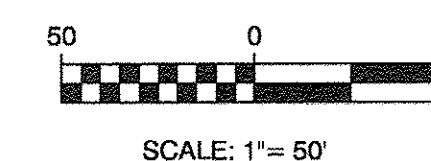
LIGHTING UNIT TO BE RELOCATED TO
STA 104+16, 8.0' F/C
400W HPS, MC III, 47.5' MH, 12' MA

LIGHTING UNIT TO BE RELOCATED TO
STA 105+66, 8.0' F/C
400W HPS, MC III, 47.5' MH, 12' MA

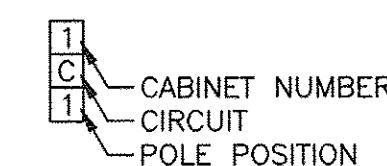
LIGHTING UNIT TO BE RELOCATED TO
STA 105+66, 8.0' F/C
400W HPS, MC III, 47.5' MH, 12' MA

LEGEND:

- EXISTING STREET LIGHT
- PROPOSED OR RELOCATED STREET LIGHT, 400W HPS
- PROPOSED OR RELOCATED STREET LIGHT, 250W HPS
- EXISTING CONTROLLER
- PROPOSED CONTROLLER, CONSOLE TYPE
- COMED POWER POLE FOR SERVICE CONNECTION
- UNDERGROUND CONDUIT, GALVANIZED STEEL
- UNIT DUCT, W/ 3-1/C, NO.4 AWG AND 1/C NO.6 GROUND, 600V (XLP TYPE USE) IN 1-1/2" DIAMETER POLYETHYLENE
- SERVICE WIRE, IN CONDUIT, 2.5" (SEE LIGHTING CONTROLLER PLAN FOR WIRE SIZE)
- GR GROUND ROD, 5/8" DIA. x 10'
- (R) REMOVAL OF EXISTING STREET LIGHT (IDOT SALVAGE)
- (RE) RELOCATE EXISTING LIGHTING UNIT
- (RO) REMOVAL OF EXISTING STREET LIGHT (BY OTHERS)
- LT LEFT
- RT RIGHT
- MH MOUNTING HEIGHT
- MA MAST ARM
- F/C FACE OF CURB TO CENTER OF POLE
- B/EP BEHIND EDGE OF PAVEMENT CENTER OF POLE
- BDTB BREAKAWAY DEVICE, TRANSFORMER BASE, 15" BOLT CIRCLE
- UGSC UNDERGROUND GALVANIZED STEEL CONDUIT



POLE IDENTIFICATION



FILE NAME = 04252-LGHT-01

USER NAME =	DESIGNED — WPD	REVISIONS
	CHECKED — WPD	REVISIONS
PLOT SCALE = 1"=50'	DRAWN — ACAD	REVISIONS
PLOT DATE = 12-05-16	CHECKED — ACAD	REVISIONS

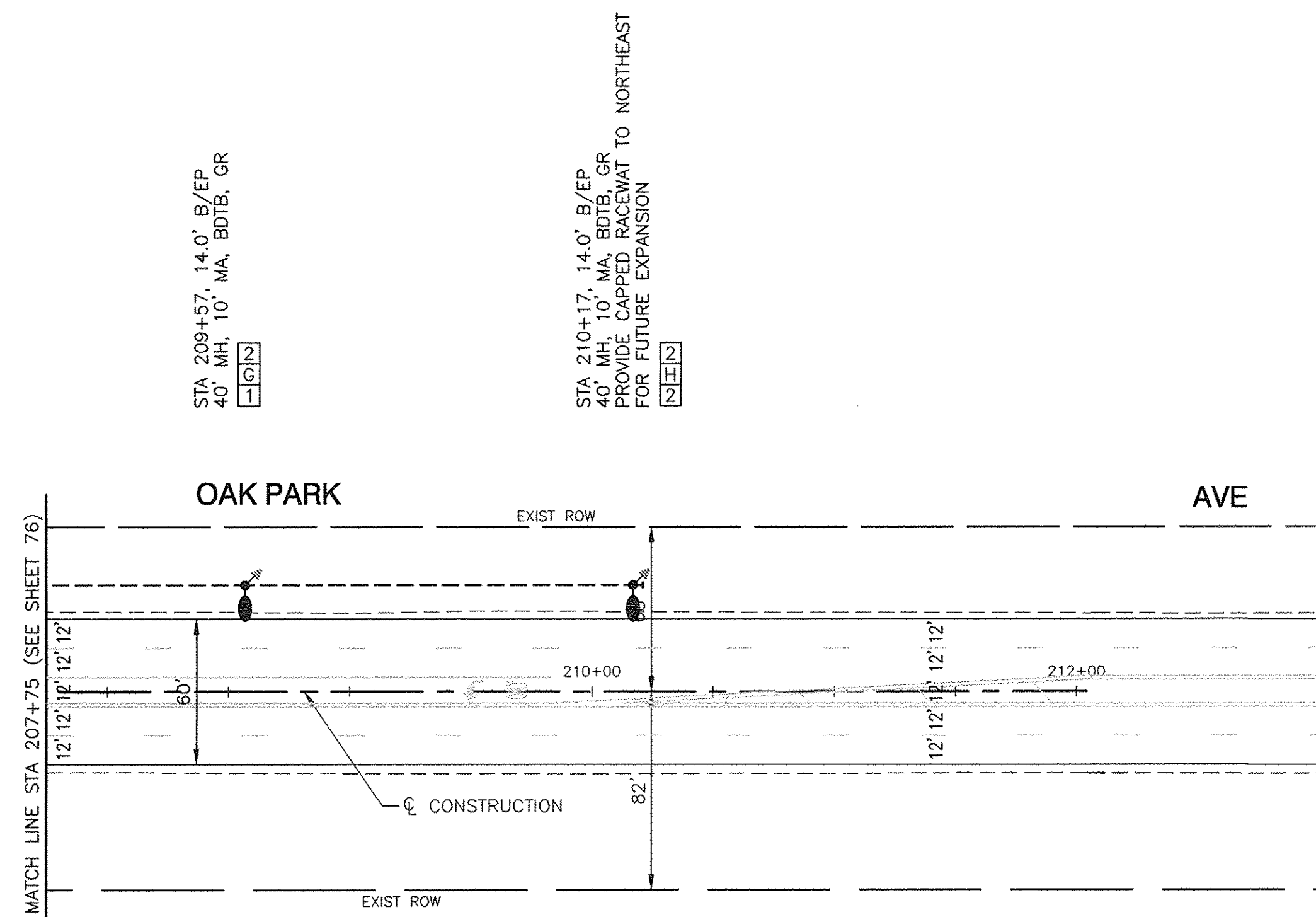
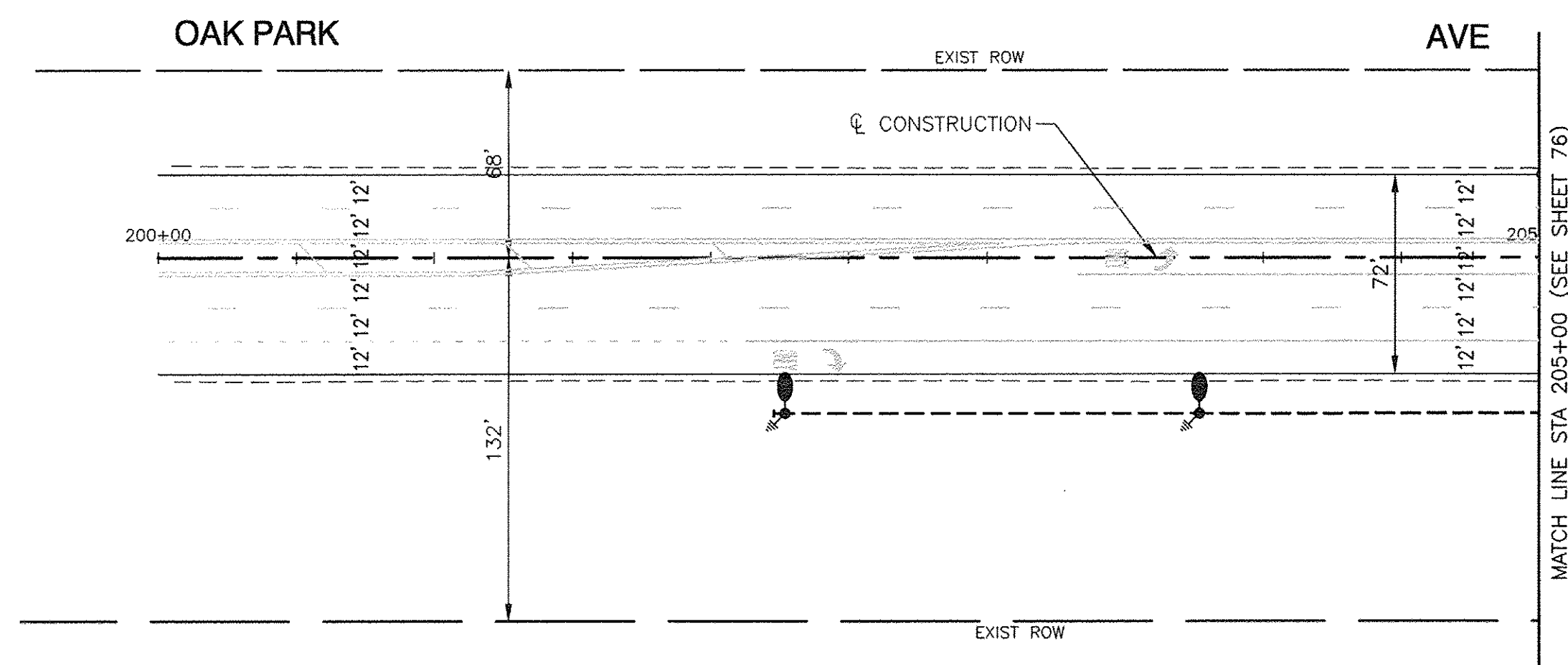
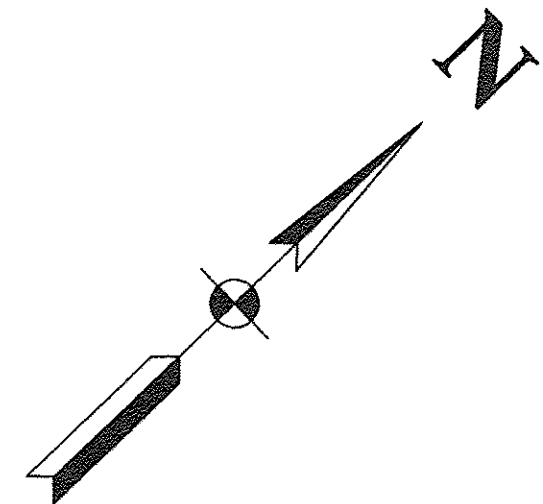
STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

191ST STREET IMPROVEMENTS
STREET LIGHTING PLANS
IL 43 (HARLEM AVENUE)

SCALE: 1"=50' SHEET NO. 78 OF 108 SHEETS STA. TO STA.

F.A.U. RITE	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
3754	01-00098-00-RS	COOK	108	78
CONTRACT NO. 61A03				
FED. ROAD DIST. NO. 1	ILLINOIS	FED. AID PROJECT		





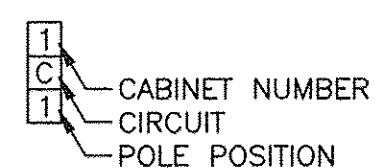
STA 202+27, 14.0' B/EP
40' MH, 10' MA, BDTB, GR
PROVIDE CAPPED RACEWAY TO SOUTHWEST
FOR FUTURE EXPANSION

203+77, 14.0' B/EP
40' MH, 12' MA, BDTB, GR

STA 209+57, 14.0' B/EP
40' MH, 10' MA, BDTB, GR

STA 210+17, 14.0' B/EP
40' MH, 10' MA, BDTB, GR
PROVIDE CAPPED RACEWAY TO NORTHEAST
FOR FUTURE EXPANSION

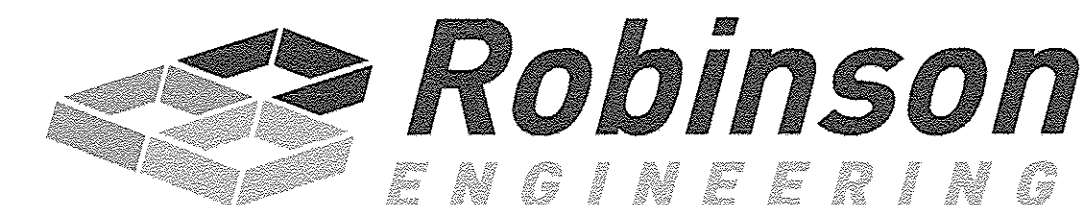
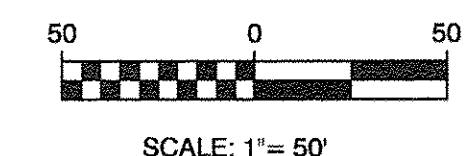
POLE IDENTIFICATION



- ○ EXISTING STREET LIGHT
- ○ PROPOSED OR RELOCATED STREET LIGHT, 400W HPS
- ○ PROPOSED OR RELOCATED STREET LIGHT, 250W HPS
- ⊠ EXISTING CONTROLLER
- ⊠ PROPOSED CONTROLLER, CONSOLE TYPE
- ⊠ COMED POWER POLE FOR SERVICE CONNECTION
- — UNDERGROUND CONDUIT, GALVANIZED STEEL
- — UNIT DUCT, W/ 3-1/C, NO.4 AWG AND 1/C NO.6 GROUND, 600V (XLP TYPE USE) IN 1-1/2" DIAMETER POLYETHYLENE
- — SERVICE WIRE, IN CONDUIT, 2.5" (SEE LIGHTING CONTROLLER PLAN FOR WIRE SIZE)

LEGEND:

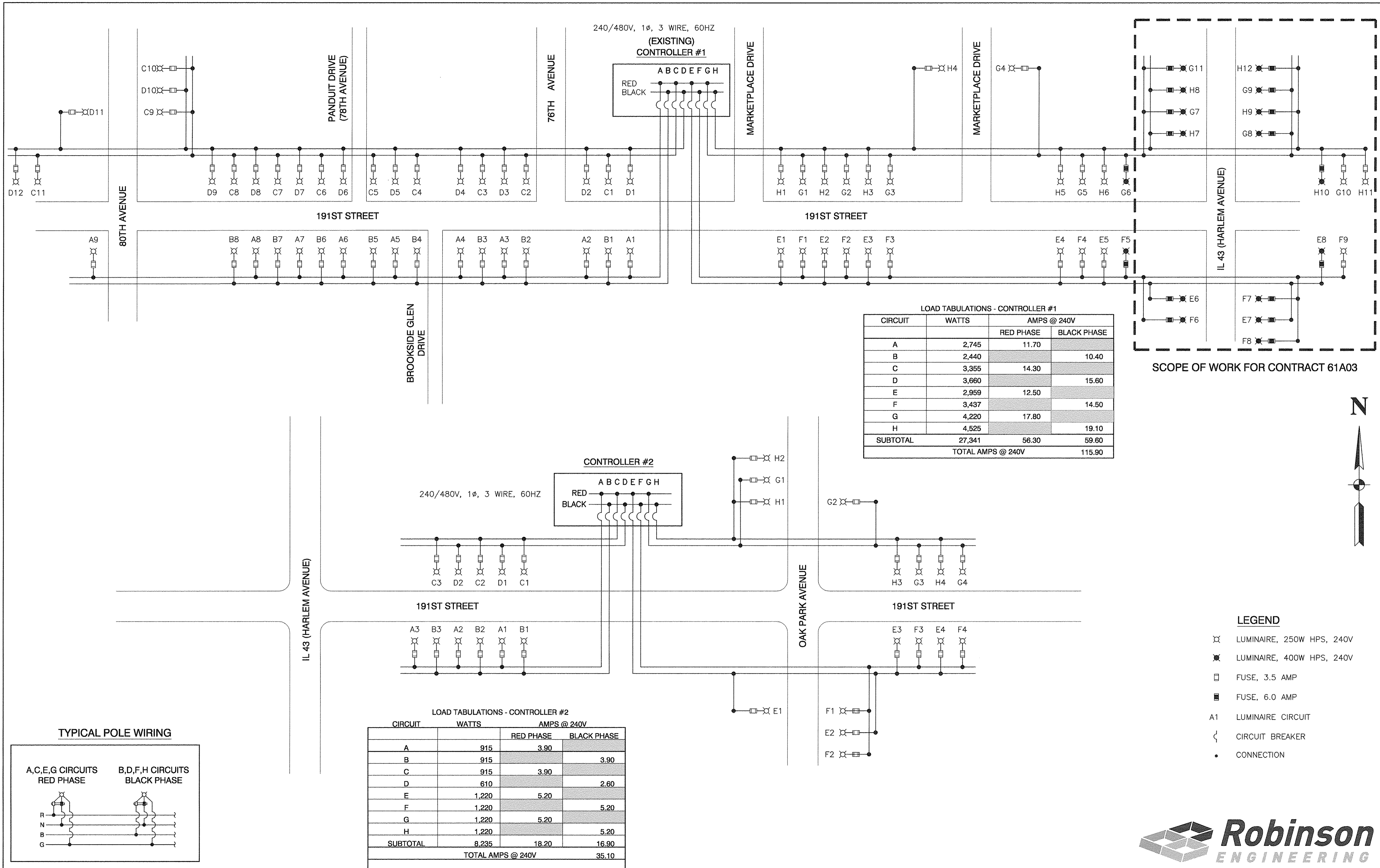
- ⊠ GR GROUND ROD, 5/8" DIA. x 10'
- (R) REMOVAL OF EXISTING STREET LIGHT (IDOT SALVAGE)
- (RE) RELOCATE EXISTING LIGHTING UNIT
- (RO) REMOVAL OF EXISTING STREET LIGHT (BY OTHERS)
- LT LEFT
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- MH MOUNTING HEIGHT
- MA MAST ARM
- F/C FACE OF CURB TO CENTER OF POLE
- B/EP BEHIND EDGE OF PAVEMENT TO CENTER OF POLE
- BDTB BREAKAWAY DEVICE, TRANSFORMER BASE, 15" BOLT CIRCLE
- UGSC UNDERGROUND GALVANIZED STEEL CONDUIT



PLAN	REVISIONS	DATE
	BY	
NOTE BOOK NO.	SUBMITTED	
	ALIGNMENT CHECKED	
	BY	
	DATE	

PROFILE	REVISIONS	DATE
	BY	
NOTE BOOK	SUBMITTED	
	GRADES CHECKED	
	BY	
	DATE	

FILE NAME = 04252-LGHT-01	USER NAME =	DESIGNED — WPD	REVISED —	STATE OF ILLINOIS DEPARTMENT OF TRANSPORTATION	191ST STREET IMPROVEMENTS STREET LIGHTING PLANS OAK PARK AVENUE			F.A.U. RTE. 3754	SECTION 01-00098-00-RS	COUNTY COOK	TOTAL SHEETS 108	SHEET NO. 79
	PLOT SCALE =	CHECKED — WPD	REVISED —		SCALE:	SHEET NO. 79 OF 108 SHEETS	STA. TO STA.	CONTRACT NO. 61A03		FED. ROAD DIST. NO. 1	ILLINOIS	FED. AID PROJECT
	PLOT DATE = 12-05-16	DRAWN — ACAD	REVISED —									
		CHECKED — ACAD	REVISED —									

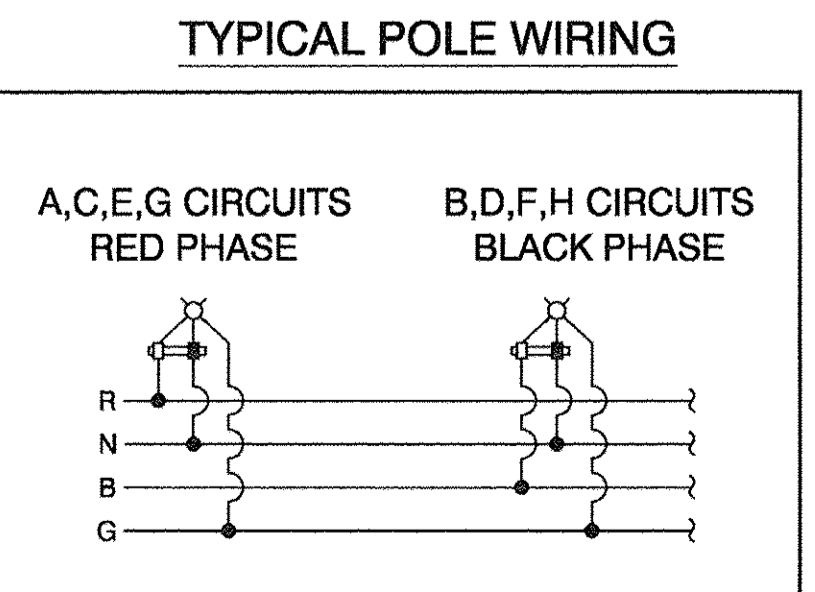


LOAD TABULATIONS - CONTROLLER #1

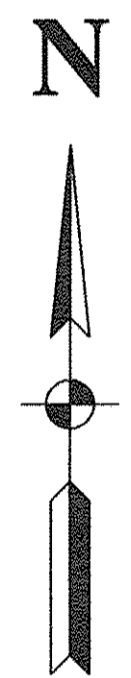
CIRCUIT	WATTS	AMPS @ 240V	
		RED PHASE	BLACK PHASE
A	2,745	11.70	
B	2,440		10.40
C	3,355	14.30	
D	3,660		15.60
E	2,959	12.50	
F	3,437		14.50
G	4,220	17.80	
H	4,525		19.10
SUBTOTAL	27,341	56.30	59.60
		TOTAL AMPS @ 240V	115.90

LOAD TABULATIONS - CONTROLLER #2

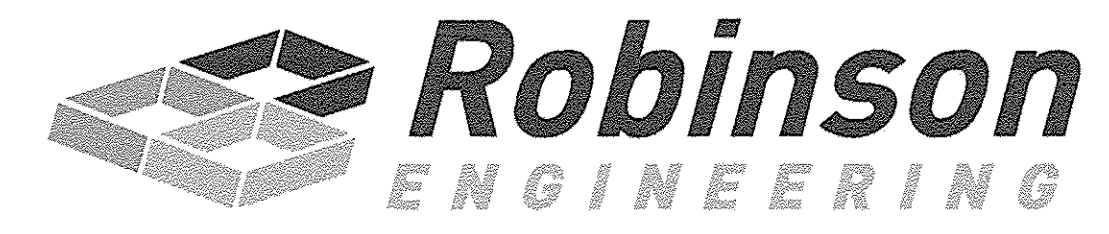
CIRCUIT	WATTS	AMPS @ 240V	
		RED PHASE	BLACK PHASE
A	915	3.90	
B	915		3.90
C	915	3.90	
D	610		2.60
E	1,220	5.20	
F	1,220		5.20
G	1,220	5.20	
H	1,220		5.20
SUBTOTAL	8,235	18.20	16.90
		TOTAL AMPS @ 240V	35.10



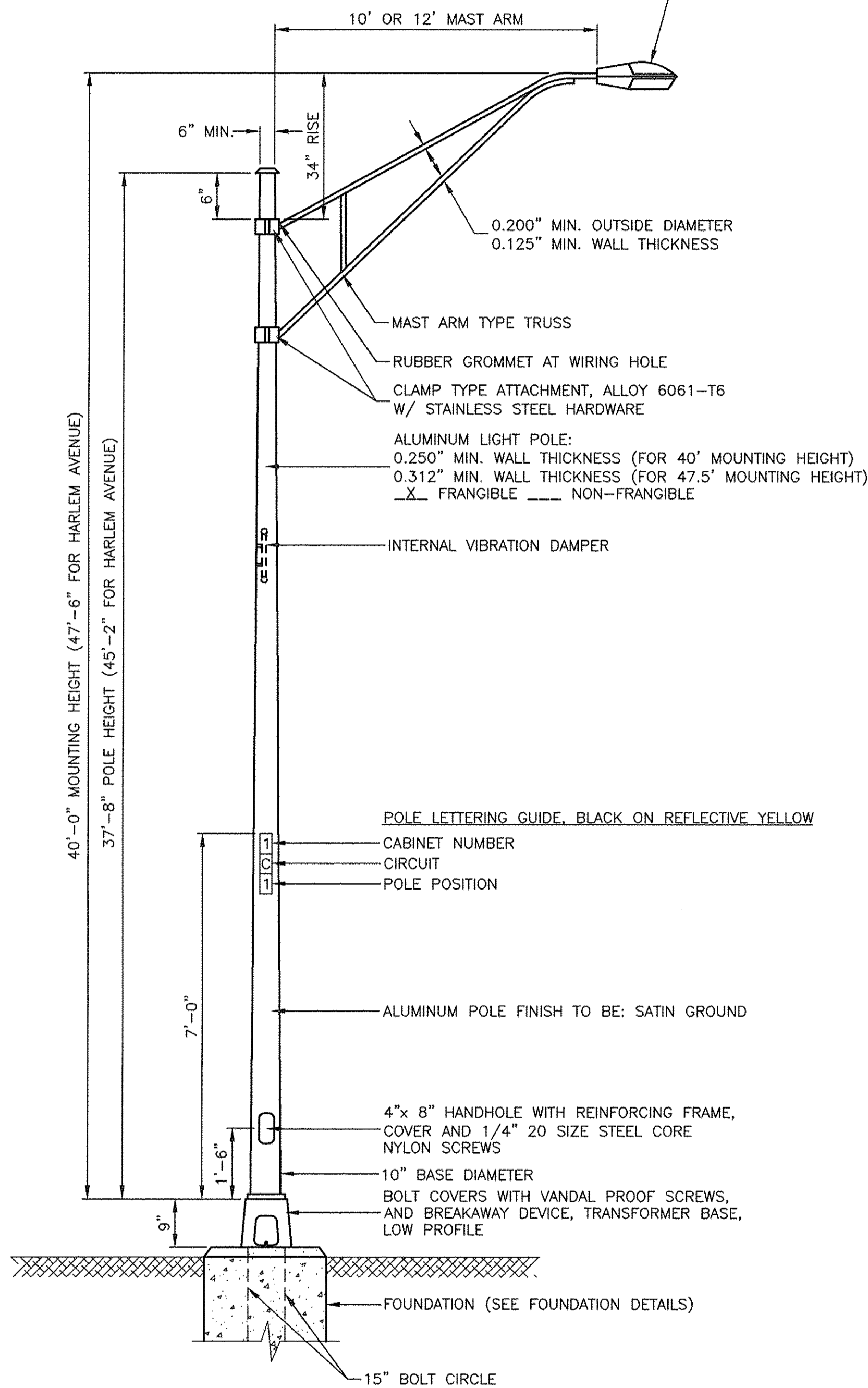
SCOPE OF WORK FOR CONTRACT 61A03



- LEGEND
- ⊗ LUMINAIRE, 250W HPS, 240V
 - ⊗ LUMINAIRE, 400W HPS, 240V
 - FUSE, 3.5 AMP
 - FUSE, 6.0 AMP
 - A1 LUMINAIRE CIRCUIT
 - ⎓ CIRCUIT BREAKER
 - CONNECTION

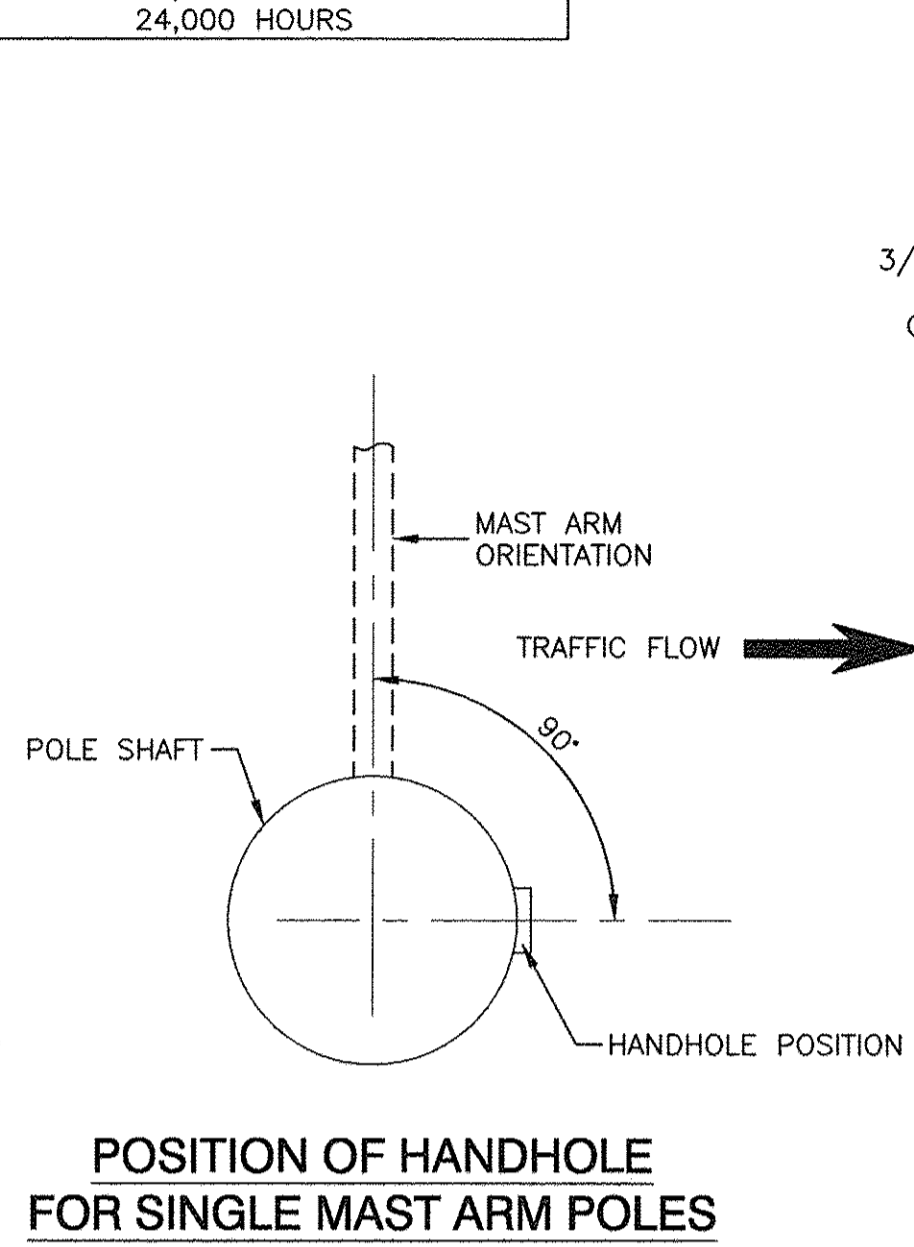


LUMINAIRE:		LUMINAIRE:	
250 WATT HIGH PRESSURE SODIUM LAMP		400 WATT HIGH PRESSURE SODIUM LAMP	
240 VOLT BALLAST		240 VOLT BALLAST	
I.E.S. TYPE:	MC III LIGHT DISTRIBUTION, FULL CUTOFF	I.E.S. TYPE:	MC III LIGHT DISTRIBUTION, FULL CUTOFF
LENS TYPE:	FLAT	LENS TYPE:	FLAT
INITIAL LAMP LUMENS:	28,000	INITIAL LAMP LUMENS:	50,000
LAMP LIFE:	24,000 HOURS	LAMP LIFE:	24,000 HOURS

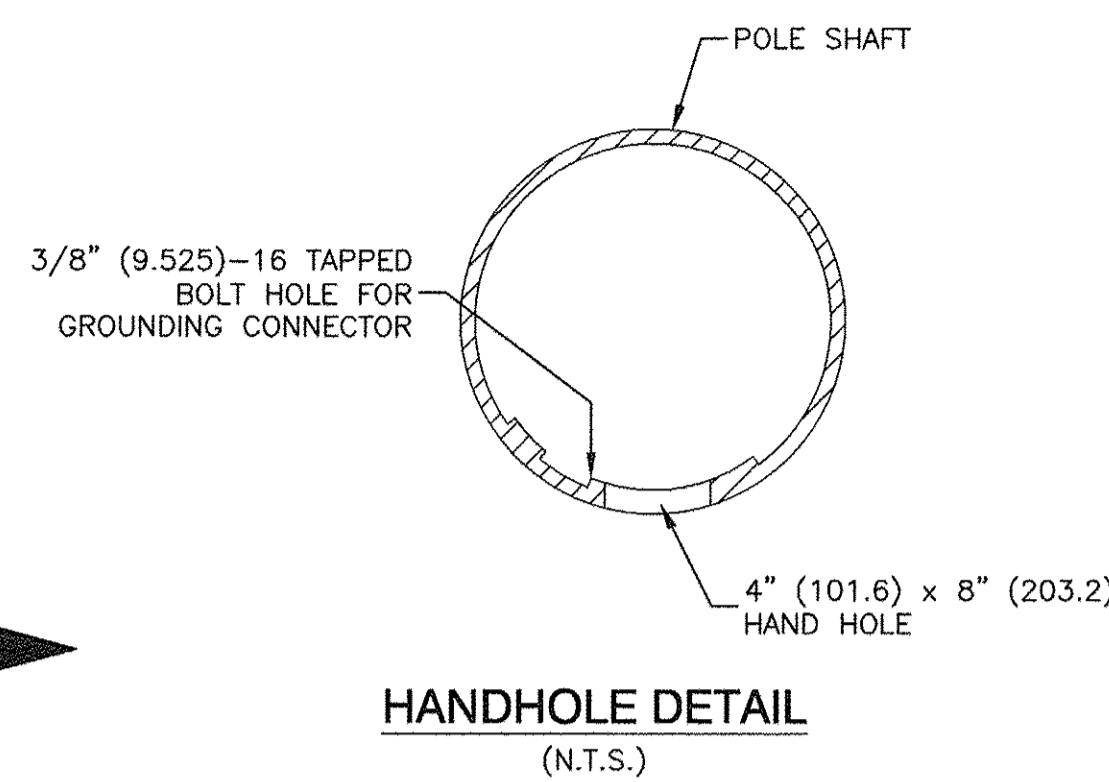


- NOTES:**
1. THE LIGHTING UNITS SHALL MEET AASHTO DESIGN CRITERIA. DESIGN FOR 90 M.P.H. WIND WITH 30% GUST AND 75 POUND LUMINAIRE HAVING AN E.P.A. OF 1.6 SQ. FT. AND PROPER ICE LOADING.
 2. ALUMINUM ALLOY 6063-T6 SHALL BE USED.
 3. LIGHT POLE AND ASSOCIATED EQUIPMENT TO BE U.L. LISTED, ETL, OR OSHA EQUIVALENT TESTING LABORATORY LISTED.

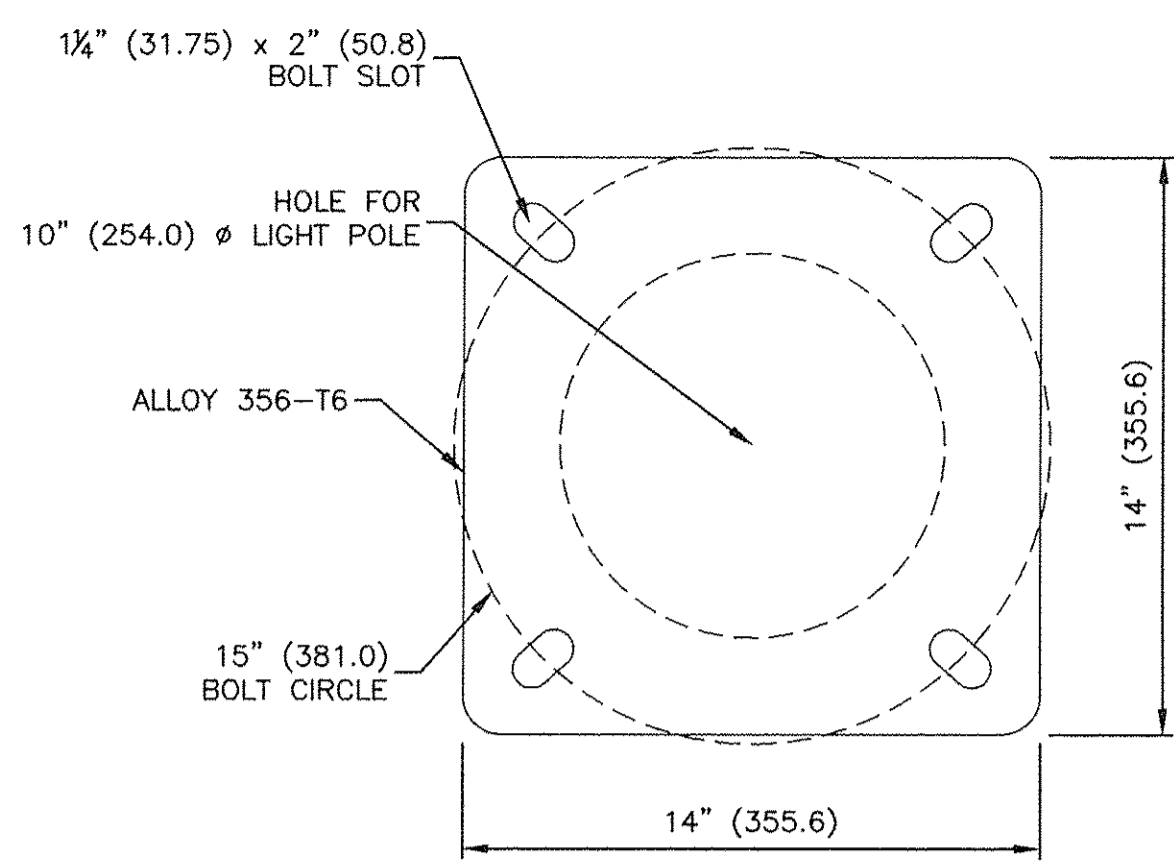
TYPICAL POLE INSTALLATION



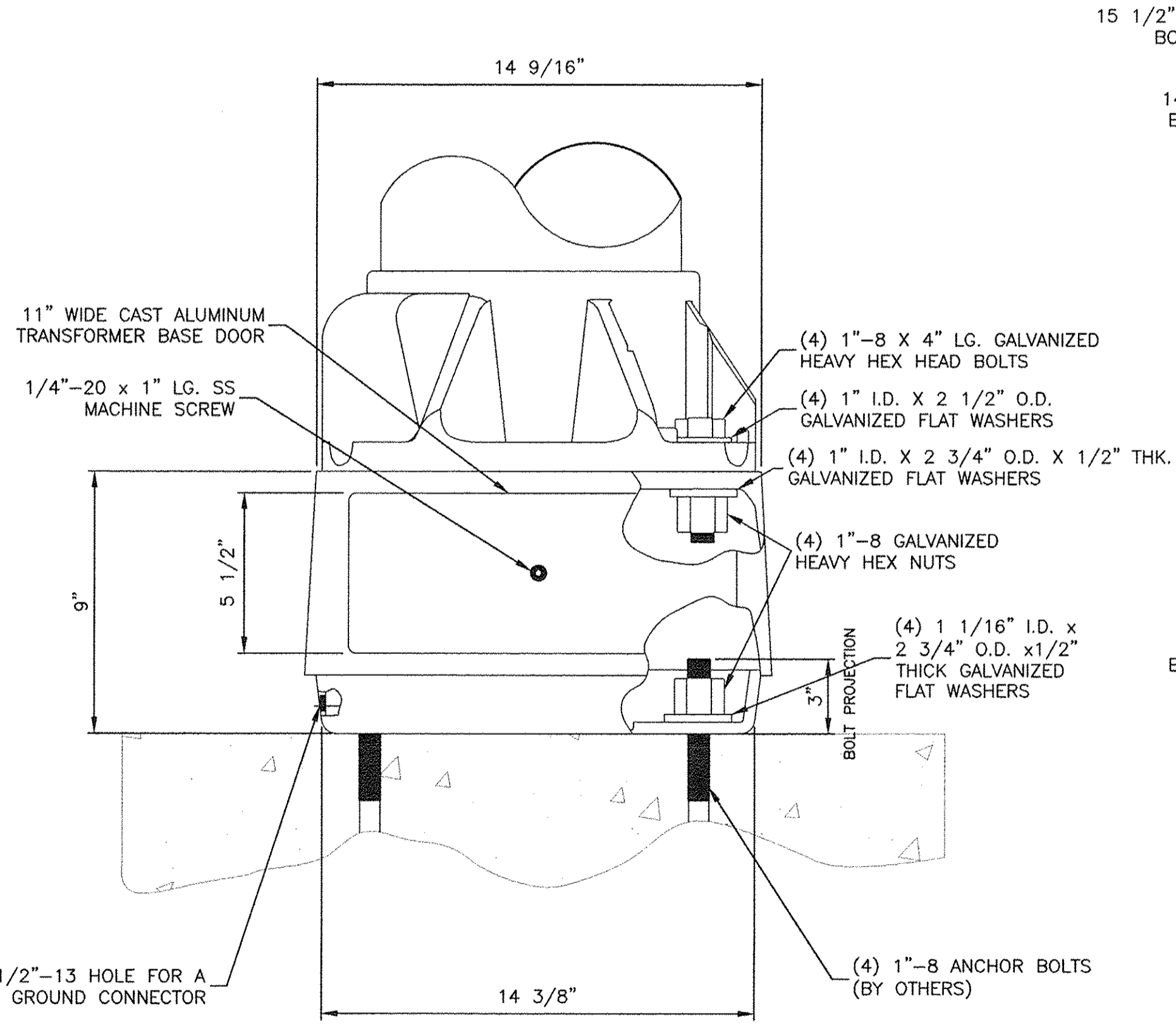
POSITION OF HANDHOLE FOR SINGLE MAST ARM POLES



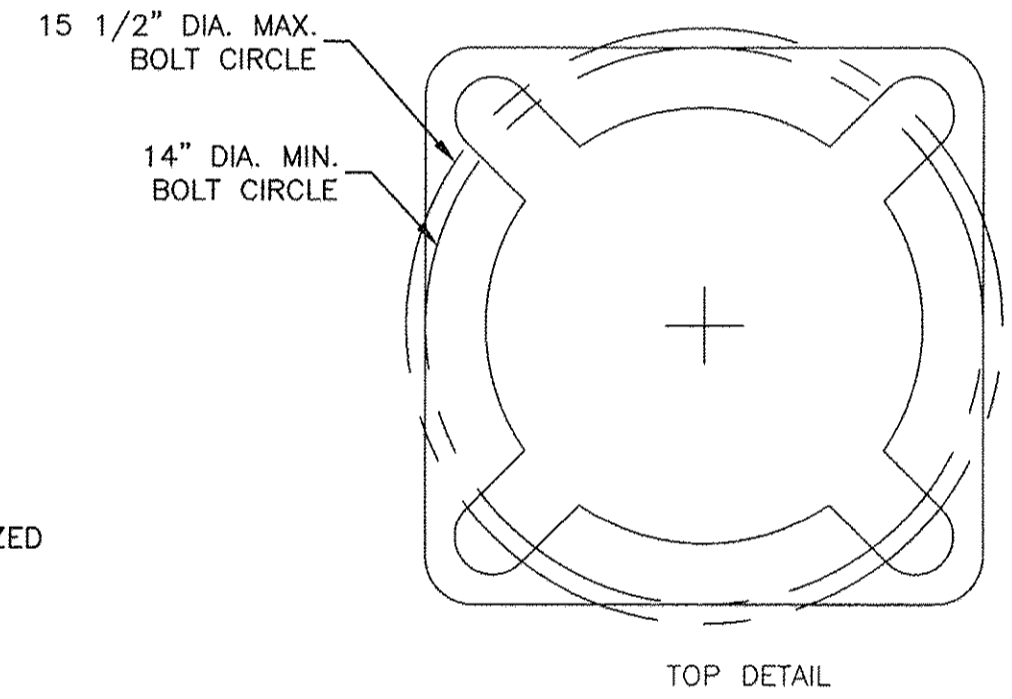
HANDHOLE DETAIL (N.T.S.)



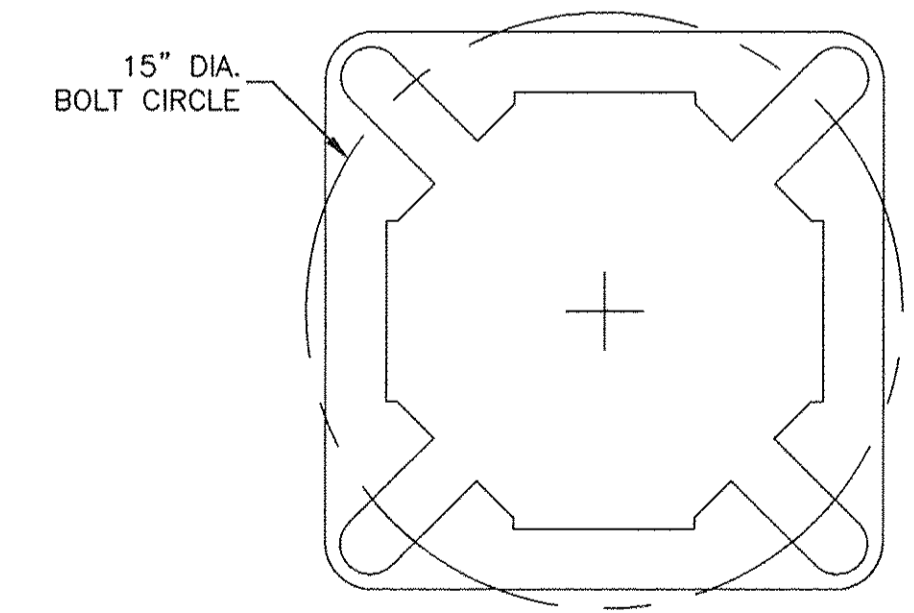
LIGHT POLE BASE PLATE DETAIL



TRANSFORMER BASE DETAIL, 15" BOLT CIRCLE

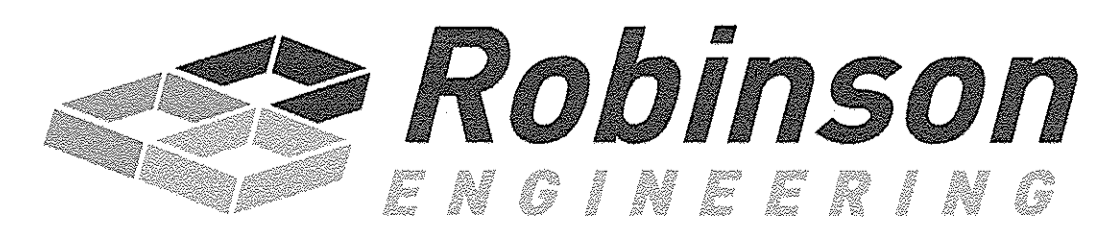


TOP DETAIL

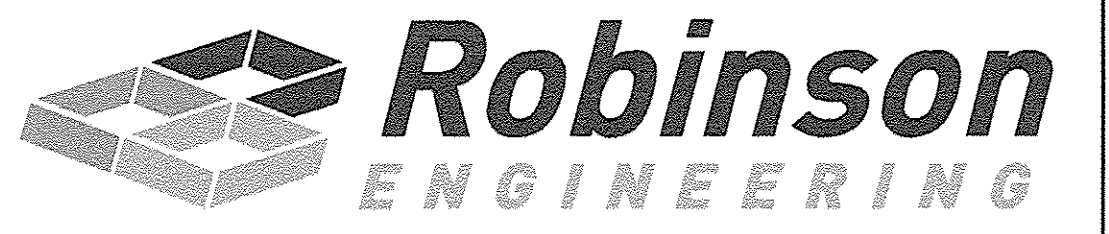
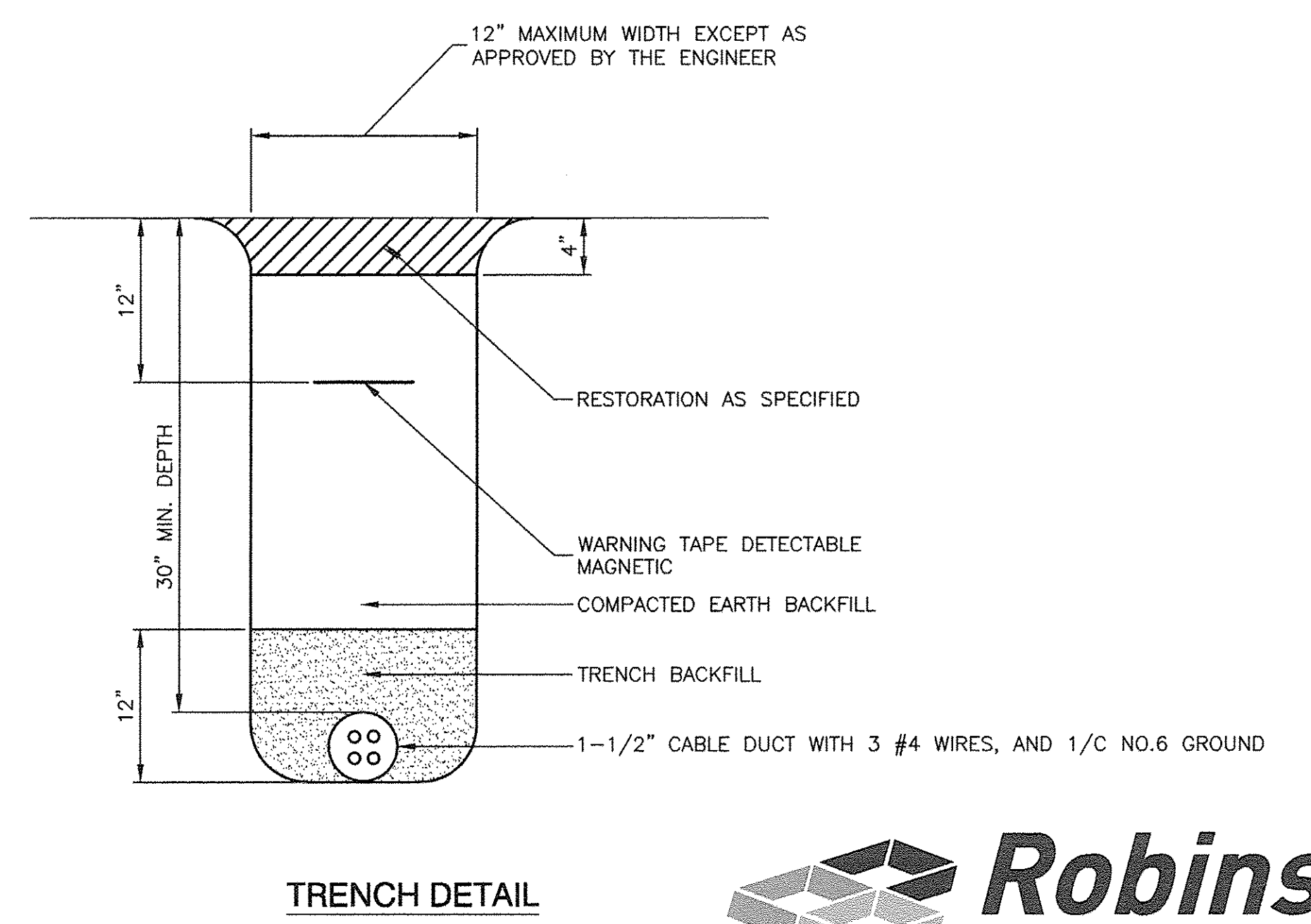
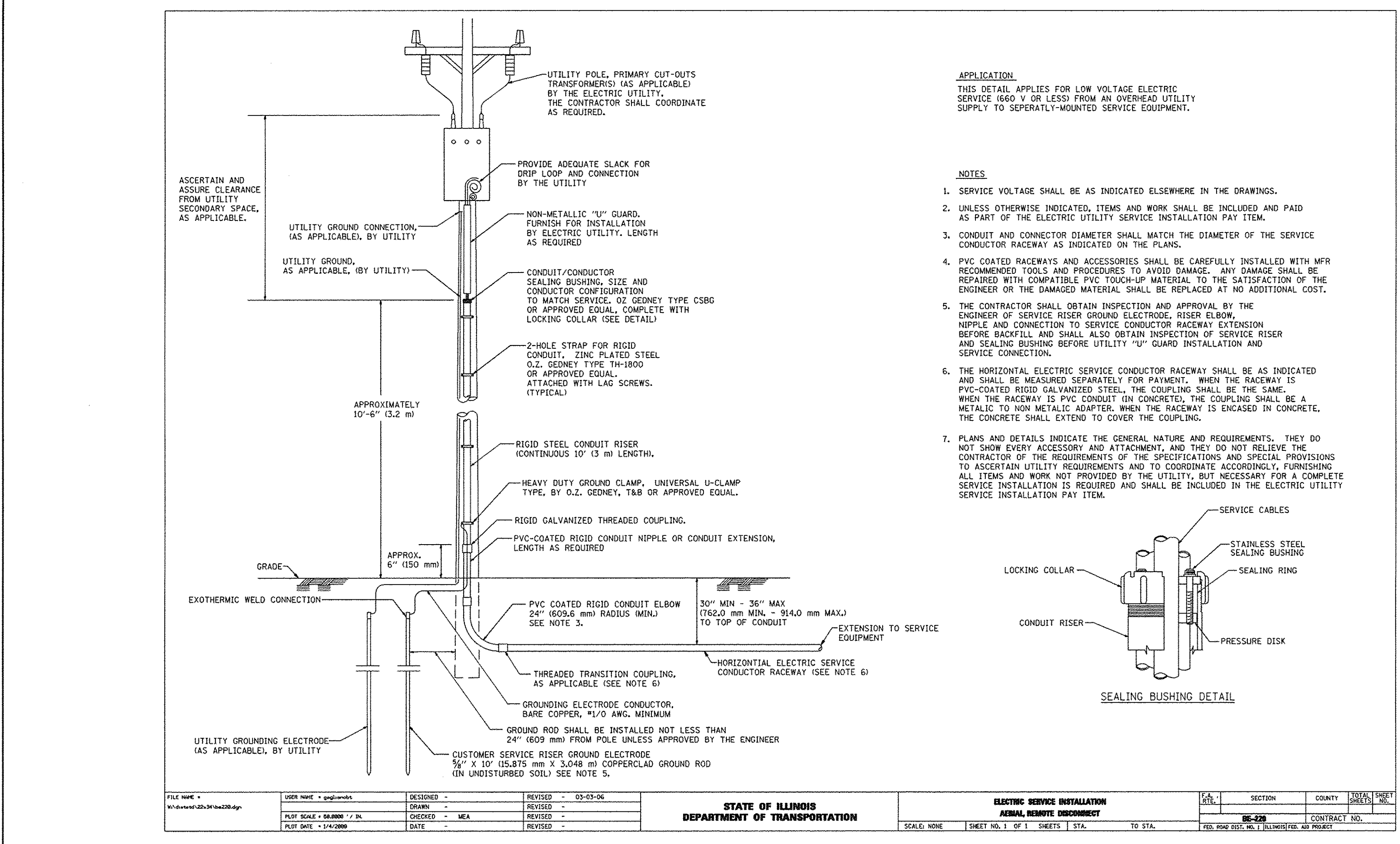
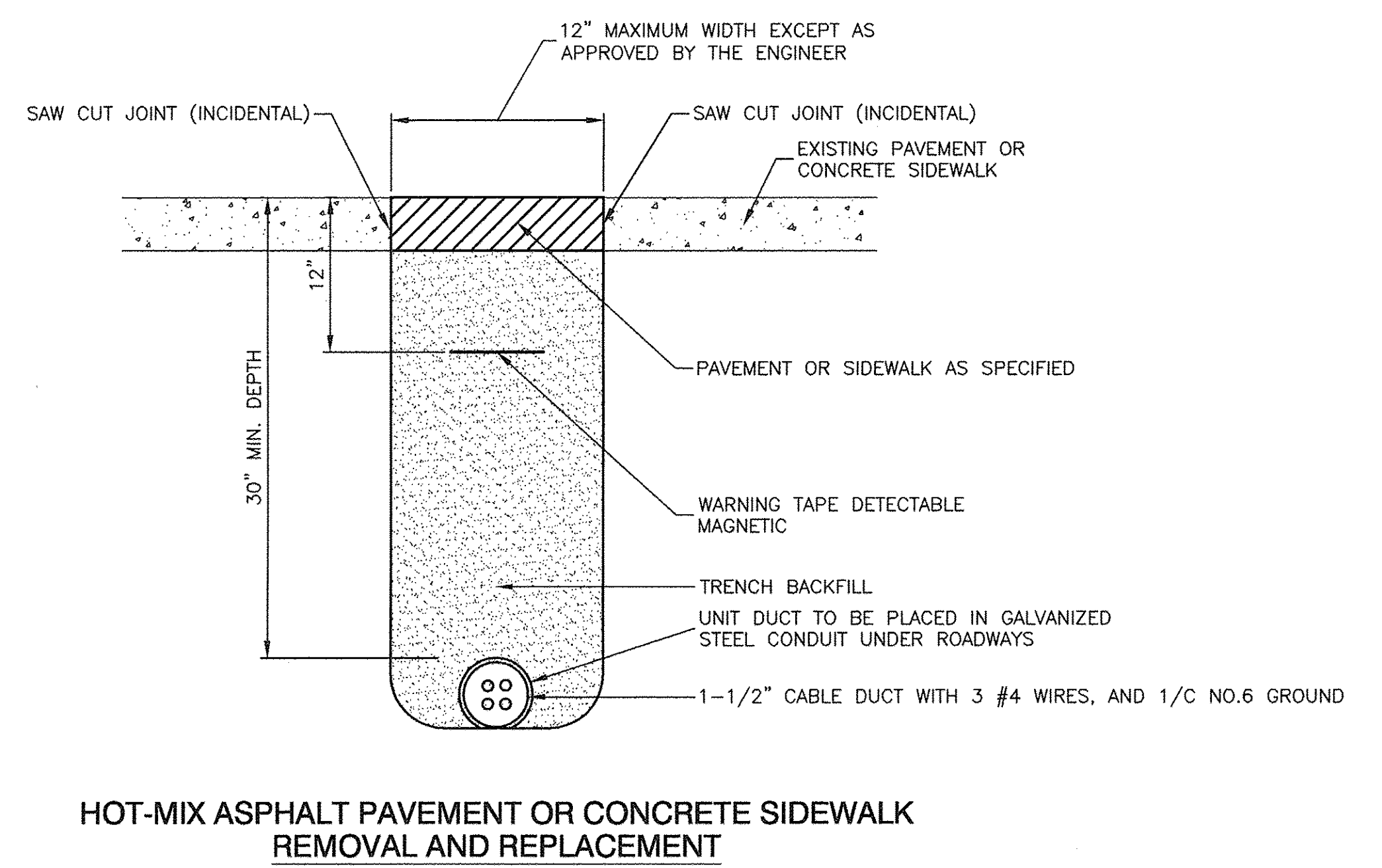
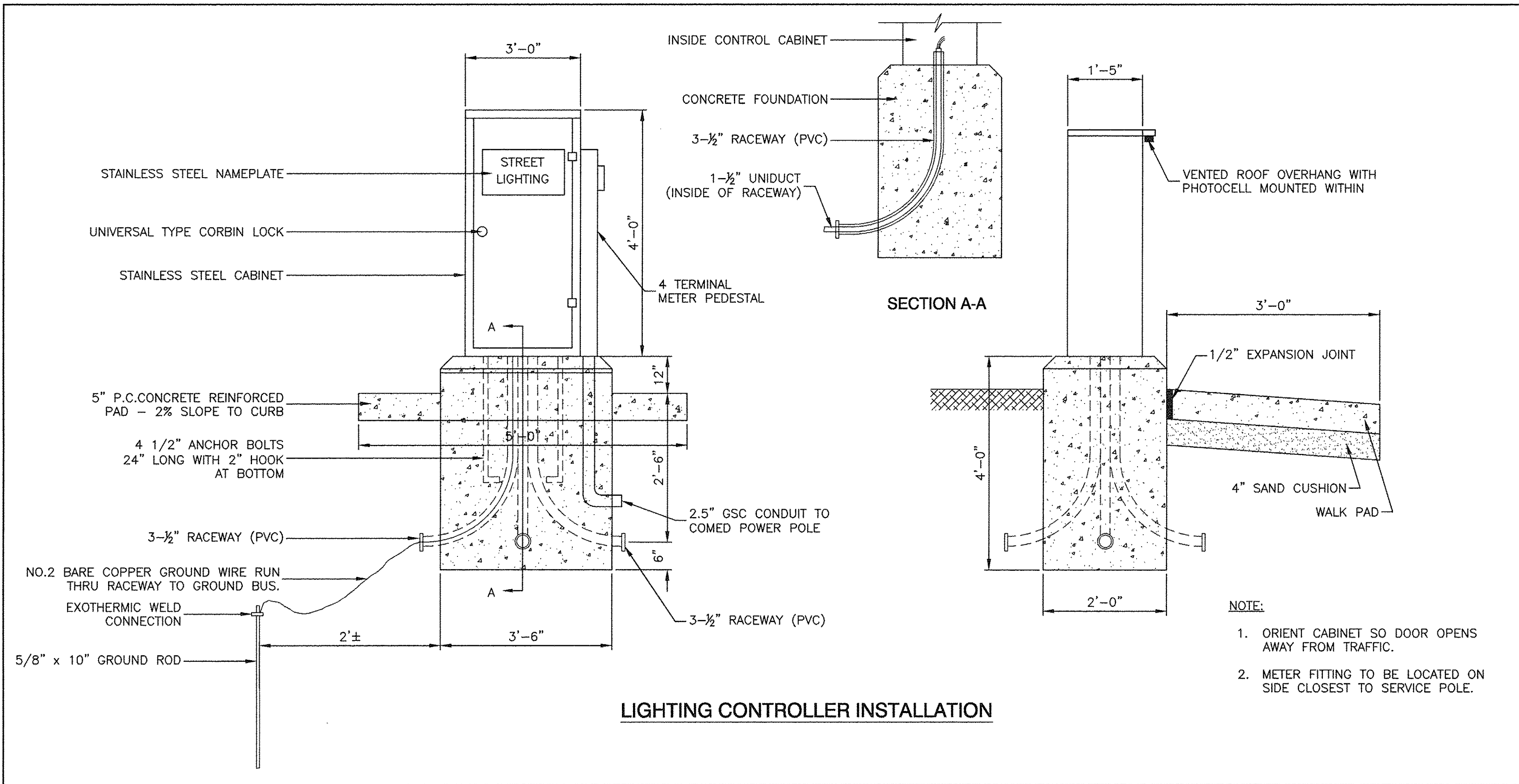


BOTTOM DETAIL

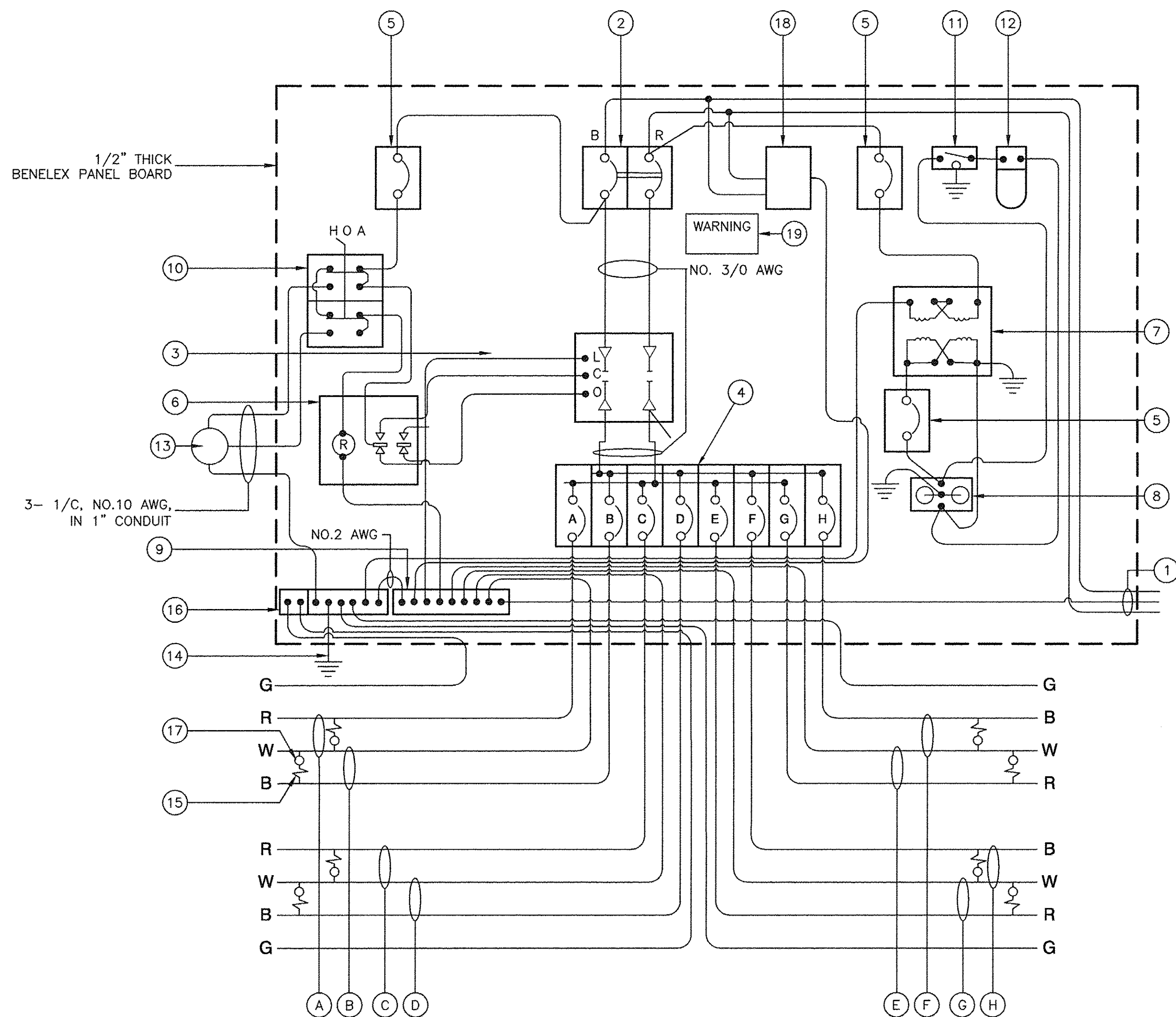
- NOTES:**
1. BREAKAWAY DEVICE TO BE AASHTO APPROVED.
 2. BREAKAWAY DEVICE AND POLE SHALL BE LEVELED AS ONE UNIT USING LEVELING NUTS IF REQUIRED.



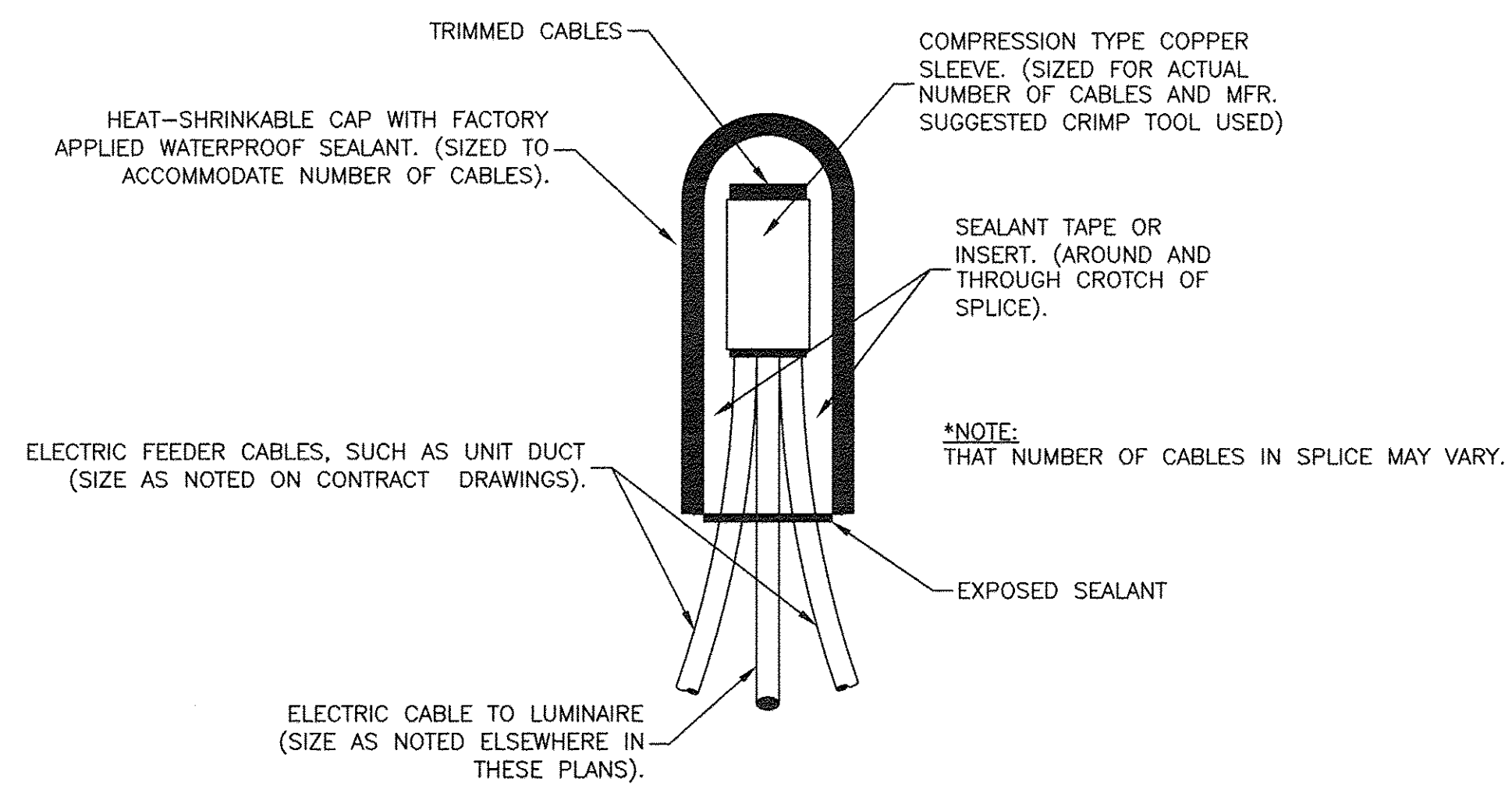
FILE NAME = 04252-LGHT-02	USER NAME =	DESIGNED -- WPD	REVISD --	STATE OF ILLINOIS DEPARTMENT OF TRANSPORTATION	191ST STREET IMPROVEMENTS STREET LIGHTING DETAILS			F.A.U. RTE. 3754	SECTION 01-00098-00-RS	COUNTY COOK	TOTAL SHEETS 108	SHEET NO. 81
	PLOT SCALE =	CHECKED -- WPD	REVISD --					SCALE:			FED. ROAD DIST. NO. 1 ILLINOIS FED. AID PROJECT	
	PLOT DATE = 12-05-16	DRAWN -- ACAD	REVISD --		SHEET NO. 81 OF 108 SHEETS			CONTRACT NO. 61A03				
		CHECKED -- ACAD	REVISD --		STA. TO STA.							



FILE NAME = 04252-LGHT-02	USER NAME =	DESIGNED = WPD	REVISED =	STATE OF ILLINOIS DEPARTMENT OF TRANSPORTATION	ELECTRIC SERVICE INSTALLATION AERIAL REMOTE DISCONNECT	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.	
	PLOT SCALE =	CHECKED = WPD	REVISED =			3754	01-00998-00-RS	COOK	108	82
	PLOT DATE = 12-05-16	DRAWN = ACAD	REVISED =			CONTRACT NO. 61A03				
		CHECKED = ACAD	REVISED =			FED. ROAD DIST. NO. 1 ILLINOIS FED. AID PROJECT				
191ST STREET IMPROVEMENTS STREET LIGHTING DETAILS					SCALE: SHEET NO. 82 OF 108 SHEETS STA. TO STA.					



**CONTROLLER WIRING DIAGRAM
CONTROLLER NO. 1 AND 2**



**SPLICING ELECTRIC CABLES
BASIC MATERIALS AND METHODS**

CONTROLLER WIRING DIAGRAM LEGEND

- ① 3-1/C. (NO. 3/0) 600V SERVICE WIRE IN 2.5" DIA GALVANIZED STEEL CONDUIT FOR 240/480 VOLT, 1ø, 3 WIRE, 60HZ. SERVICE.
- ② (1) (200 AMP) MAIN CIRCUIT BREAKER, 2 POLE, 600 VOLT, 250 AMP FRAME, NON-INTERCHANGEABLE TRIP INTERRUPTING RATING NEMA - 22 KA AT 480 V.
- ③ (1) (200 AMP) REMOTE CONTROL CONTACTOR SWITCH, ELECTRICALLY OPERATED, MECHANICALLY HELD, 2 POLE, 600 VOLT, 240 V COIL
- ④ (8) 30 AMP CIRCUIT BREAKER, 1 POLE, 240 VOLT, 100 AMP FRAME, NON-INTERCHANGEABLE TRIP RATING NEMA - 22 KA AT 240 VOLTS.
- ⑤ (3) 20 AMP CONTROL CIRCUIT-CIRCUIT BREAKER, 1 POLE, 240 VOLT, 100 AMP FRAME, NON-INTERCHANGEABLE TRIP INTERRUPTING RATING NEMA 22 KA AT 240 V.
- ⑥ (1) 25 AMP, 1 POLE DOUBLE THROW, 240 VOLT RELAY
- ⑦ (1) 1.5 KVA, SINGLE PHASE, ENCAPSULATED TRANSFORMER 240 X 480/120 X 240 VOLT, 60HZ.
- ⑧ (1) 20 AMP, 120 VOLT DUPLEX GFCI RECEPTACLE, MOUNTED IN BOX.
- ⑨ NEUTRAL BUS BAR, 1/4"x1"x12" MINIMUM LENGTH MOUNTED ON PANEL WITH LUGS.
- ⑩ 3 POSITION SELECTOR SWITCH, 240 V, 30 AMP
- ⑪ SWITCH FOR LIGHTING FIXTURE MOUNTED IN BOX, 20 AMP, SPST
- ⑫ WEATHER-PROOF LIGHTING FIXTURE WITH 1600 LUMEN, 120 V LED LAMP.
- ⑬ PHOTOCCELL MOUNTED TO CABINET, 240 V, 1000 VA BALLAST RATING, 1-4 FC ON, 3-12 FC OFF, 30 SECOND MINIMUM DELAY.
- ⑭ NO.2 AWG INSULATED GROUND WIRE TO GROUND ROD
- ⑮ IN-LINE FUSEHOLDER WITH FUSE AS NOTED IN FUSE TABLE
- ⑯ GROUND BUS BAR 1/4"x1"x12" MINIMUM LENGTH MOUNTED ON PANEL WITH LUGS.
- ⑰ LUMINAIRE
- ⑱ SURGE ARRESTER, 3,405 JOULES @ 240 V, NEC 280 COMPLIANT, 3 WIRE, 60HZ.
- Ⓐ CIRCUIT (RED) Ⓔ CIRCUIT (RED)
- Ⓑ CIRCUIT (BLACK) Ⓕ CIRCUIT (BLACK)
- Ⓒ CIRCUIT (RED) Ⓖ CIRCUIT (RED)
- Ⓓ CIRCUIT (BLACK) Ⓗ CIRCUIT (BLACK)

NOMINAL WATTAGE	FUSE SIZE
250	3.5 AMP
400	6.0 AMP

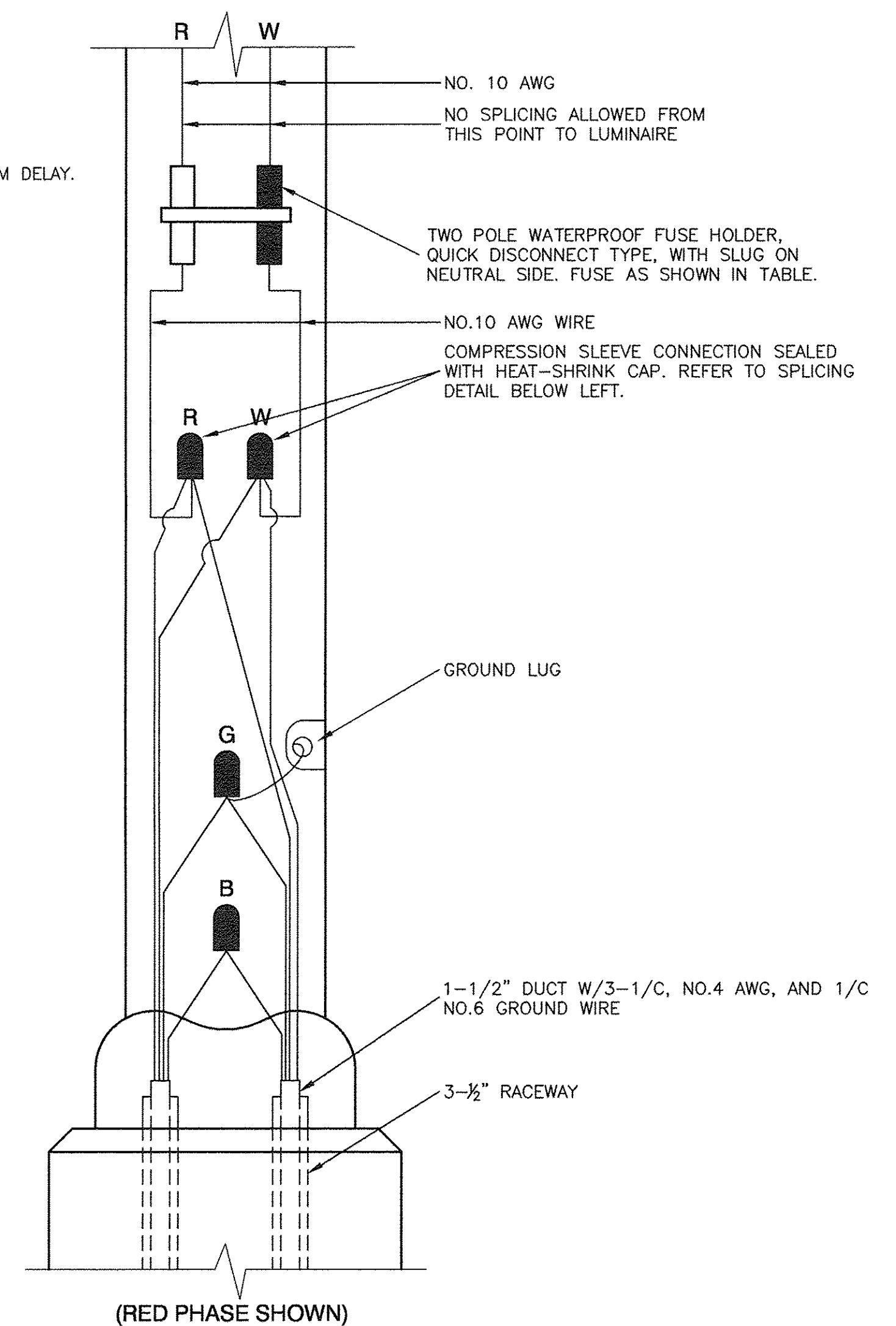
LUMINAIRE FUSE SIZE TABLE

GENERAL NOTES FOR CONTROL CABINET

- ENTIRE CONTROL CABINET SHALL BE GROUNDED.
- ALL WIRING SHALL BE TAGGED WITH SELF-STICKING WIRE MARKERS.
- GROUND BUS TO BE COLOR CODED GREEN, NEUTRAL BUS WHITE, AND BONDED TO CABINET ENCLOSURE, BY LISTED PRESSURE CONNECTORS OR LISTED CLAMPS.
- ALL INTERNAL CONTROLLER WIRING TO BE NO.12 AWG UNLESS OTHERWISE SPECIFIED.
- CABINET WIRING INSULATION TO BE TYPE XHHW OR APPROVED EQUAL.
- THE CONTROLLER SHALL BE NEMA 3R, BE SUITABLE FOR USE AS SERVICE ENTRANCE RATED, AND CONSTRUCTED IN ACCORDANCE WITH UL STD. 508. UL LABEL TO BE VISIBLE FROM OUTSIDE CONTROL CABINET.

LIGHTING GENERAL NOTES

- ALL WORK TO CONFORM TO THE MOST RECENT NATIONAL ELECTRICAL CODE AND ANY APPLICABLE LOCAL CODES.
- CONTRACTOR TO VERIFY LOCATION OF ALL UNDERGROUND UTILITIES BEFORE TRENCHING OR AUGERING.
- BEFORE INSTALLING STANDARDS NEAR OVERHEAD FACILITIES CALL ComEd FOR APPROVAL OF LOCATION.
- FOR LOCATION OF EXISTING UNDERGROUND ELECTRICAL CABLE CALL ComEd.
- CARE IS TO BE TAKEN AS NOT TO DAMAGE ANY OF THE EXISTING TRAFFIC SIGNAL CONDUIT, MAGNETIC DETECTORS AND EQUIPMENT. IF ANY OF THE TRAFFIC SIGNAL CONDUIT AND/OR EQUIPMENT IS DAMAGED, THE CONTRACTOR SHALL REPAIR AND/OR REPLACE THE CONDUIT AND/OR EQUIPMENT AT NO COST TO THE CITY OR STATE.
- THE CONTRACTOR SHALL MAKE SPECIAL NOTE OF THE REQUIREMENT FOR BURIED WARNING TAPE. THE INSTALLATION OF THE TAPE SHALL BE INSPECTED AND APPROVED BY THE RESIDENT ENGINEER PRIOR TO BACKFILLING OR DURING PLOWING OPERATIONS, AS APPLICABLE.
- THE CONTRACTOR WILL BE RESPONSIBLE FOR THE ESTABLISHMENT OF FINISHED GRADE. THE RESIDENT ENGINEER MAY ASSIST THE CONTRACTOR, AS APPLICABLE, BUT THE RESPONSIBILITY FOR COORDINATING THE FINISHED GRADE ELEVATION WITH THE TOP OF THE FOUNDATION HEIGHTS AND THE LIGHT SHALL REMAIN WITH THE CONTRACTOR.
- NO POLES SHALL BE ERECTED UNTIL THE RESPECTIVE FOUNDATIONS HAVE CURED, AS APPROVED BY THE ENGINEER.
- THE CONTRACTOR SHALL MAKE SPECIAL NOTE OF THE REQUIREMENTS FOR WIRE MARKERS AND SHALL TAG ALL WIRE ACCORDINGLY.
- EQUIPMENT GROUND CONDUCTORS SHALL BE SPLICED AND BONDED AT EACH LIGHT POLE OR OTHER PIECE OF EQUIPMENT.
- UNDERGROUND SPLICES OF LIGHTING CONDUCTORS WILL NOT BE ALLOWED EXCEPT AT LIGHT POLE BASE.
- CONDUITS AND UNIT DUCTS MUST BE POSITIONED IN THE FIELD TO AVOID CONFLICT WITH TREE, BUSHES, DRAINS AND OTHER UTILITIES.



**POLE HANDHOLE WIRING DIAGRAM
(TYPICAL FOR SINGLE LUMINAIRE INSTALLATION)**

NOTE:
ALLOW 36" LOOP OF CABLES TO INSURE SUFFICIENT SLACK FOR WITHDRAWAL OF THE CONNECTORS OUTSIDE OF THE POLE HANDHOLE.



STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

191ST STREET IMPROVEMENTS
STREET LIGHTING DETAILS

SCALE: SHEET NO. 83 OF 108 SHEETS STA. TO STA.

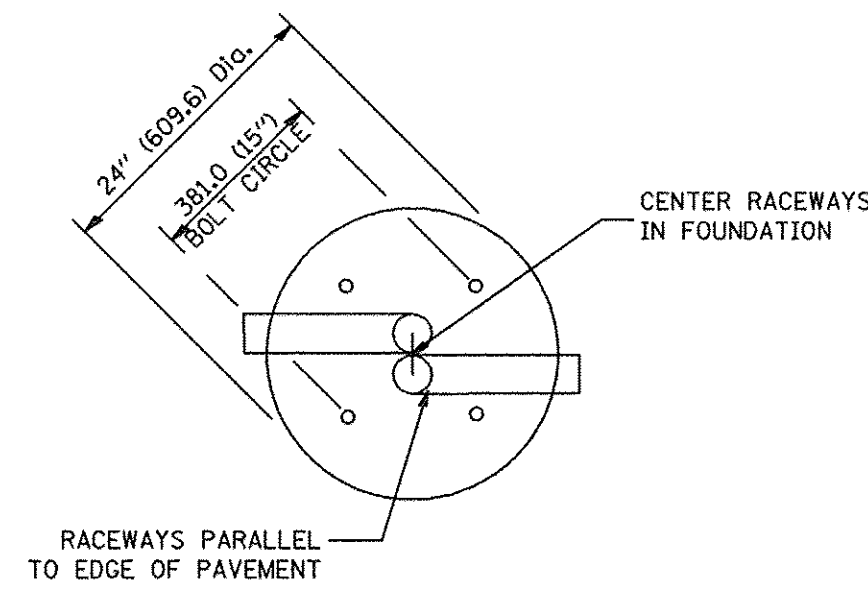
F.A.U. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
3754	01-00098-00-RS	COOK	108	83

CONTRACT NO. 61A03
FED. ROAD DIST. NO. 1 ILLINOIS FED. AID PROJECT

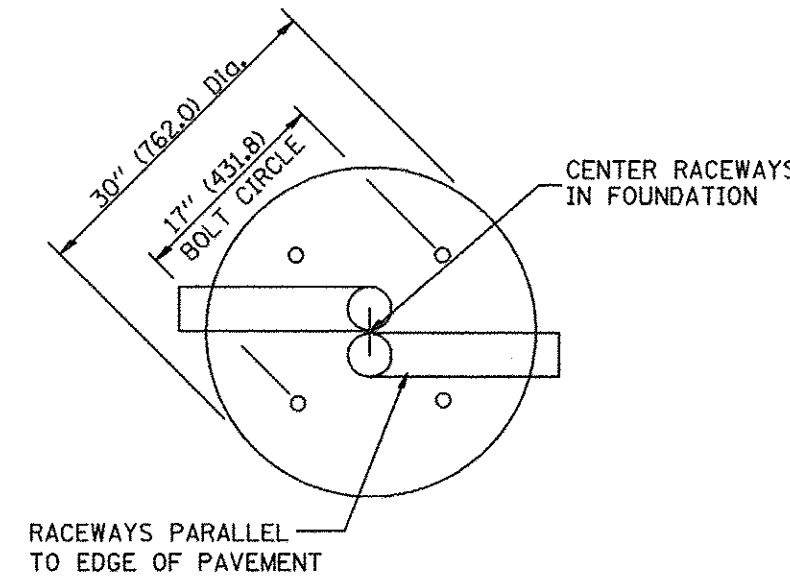
FILE NAME =	USER NAME =	DESIGNED --	REVISIONS
04252-LGHT-02		WPD	
		WPD	
		ACAD	
		ACAD	

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

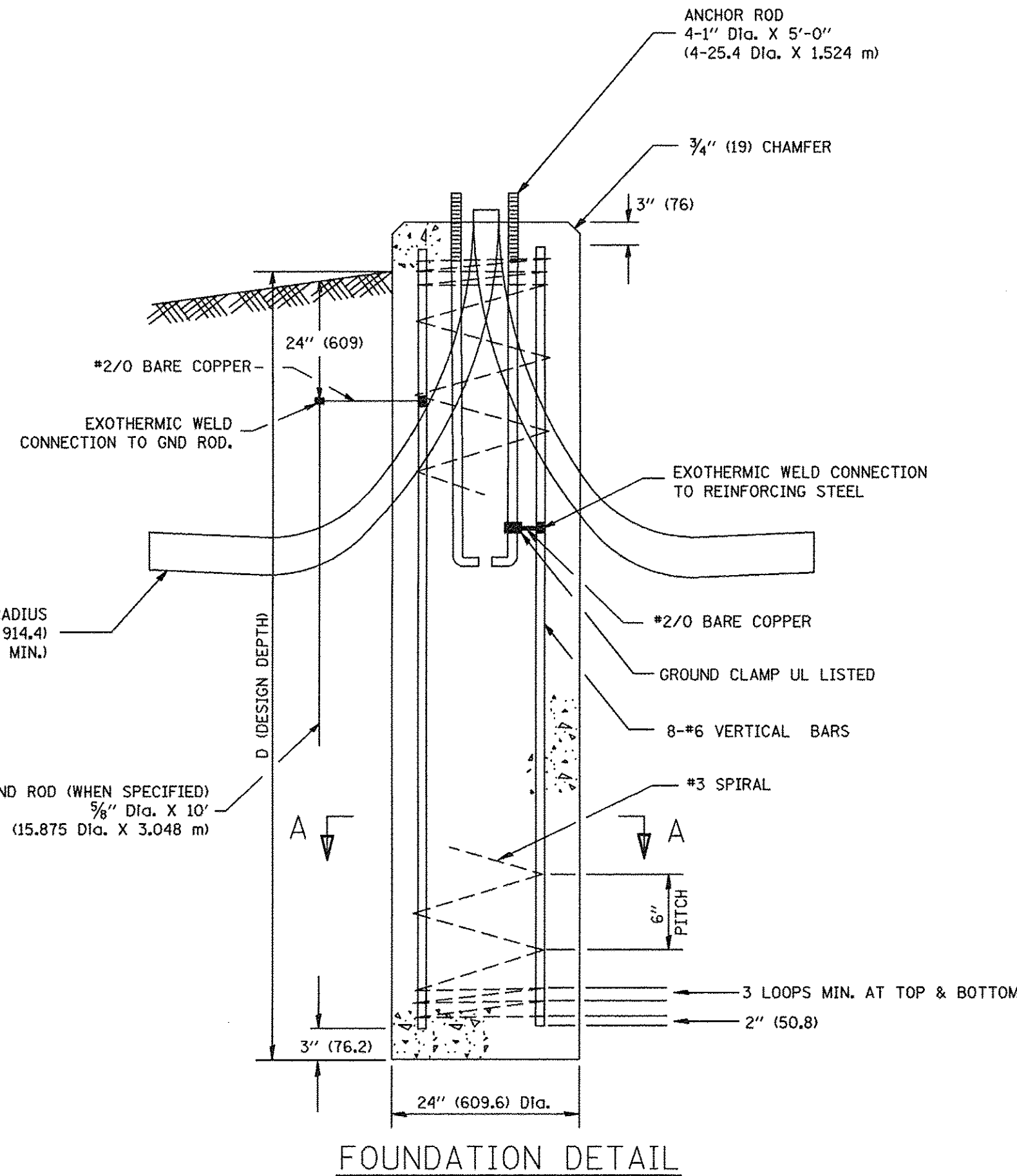
SOIL CONDITIONS	DESIGN DEPTH "D" OF FOUNDATION	
	SINGLE ARM POLE	TWIN ARM POLE
SOFT CLAY Qu = 0.375 TON/SQ. FT.	13'-0" (3.96 m)	15'-0" (4.57 m)
MEDIUM CLAY Qu = 0.75 TON/SQ. FT.	9'-6" (2.93 m)	10'-9" (3.23 m)
STIFF CLAY Qu = 1.50 TON/SQ. FT.	7'-0" (2.13 m)	8'-0" (2.44 m)
LOOSE SAND φ = 34°	9'-0" (2.74 m)	10'-0" (3.05 m)
MEDIUM SAND φ = 37.5°	8'-3" (2.52 m)	9'-0" (2.74 m)
DENSE SAND φ = 40°	7'-9" (2.36 m)	9'-0" (2.74 m)



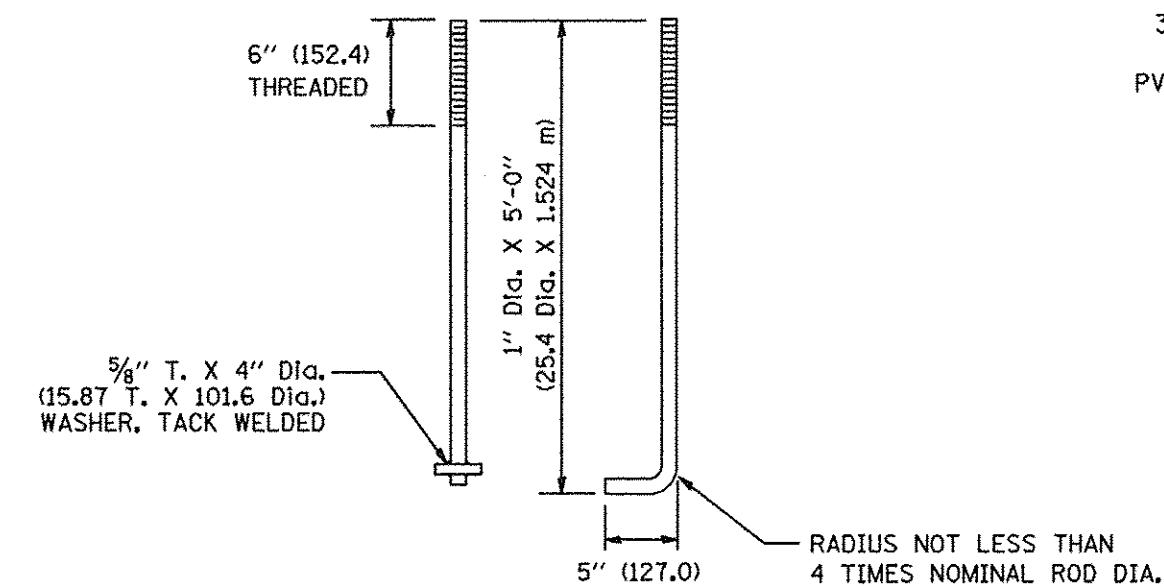
TOP VIEW



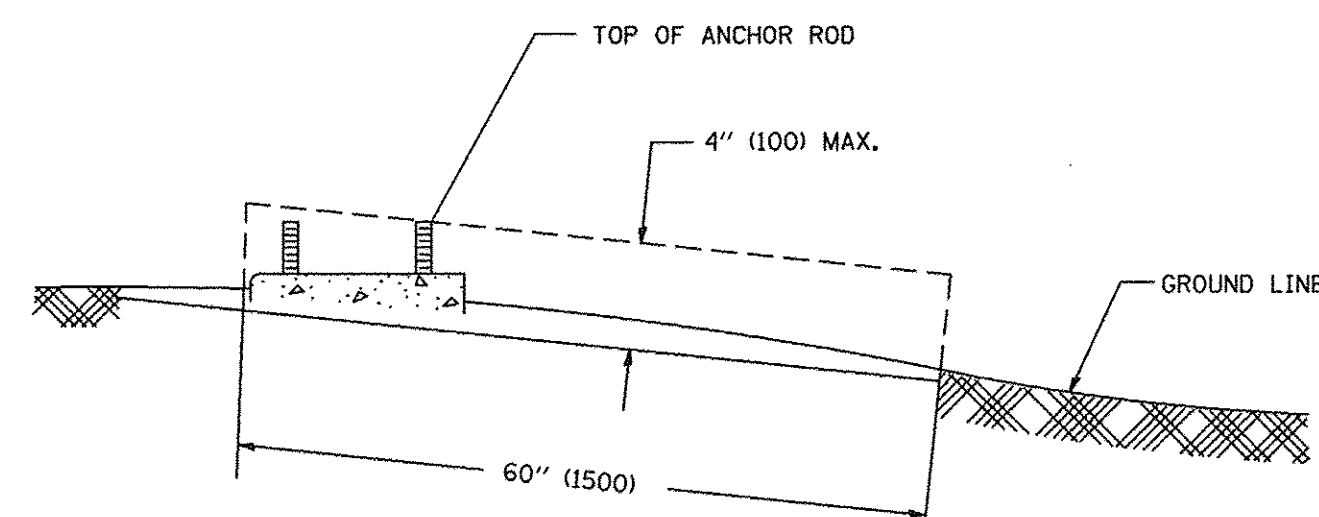
TOP VIEW



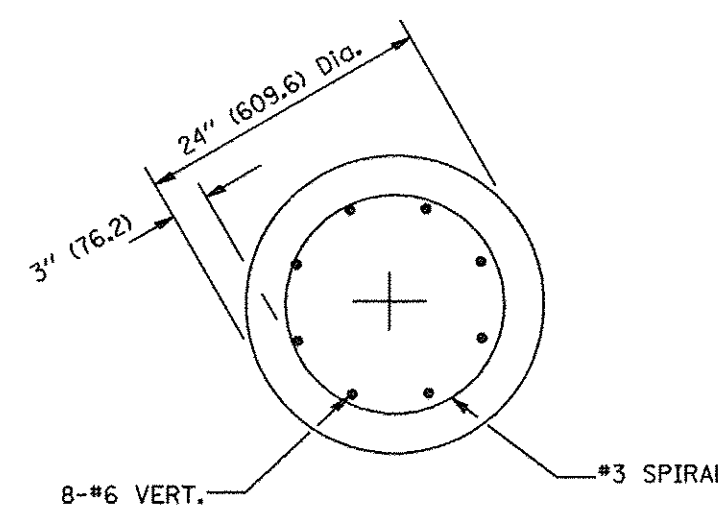
FOUNDATION DETAIL



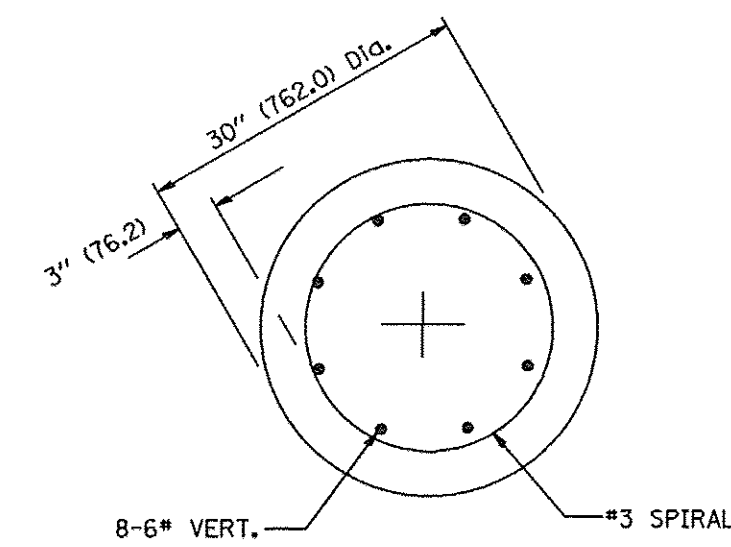
ANCHOR ROD DETAIL



FOUNDATION EXTENSION DETAIL



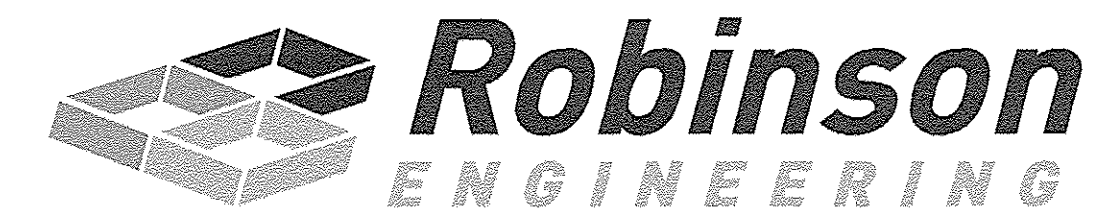
SECTION A-A



SECTION A-A

NOTES

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

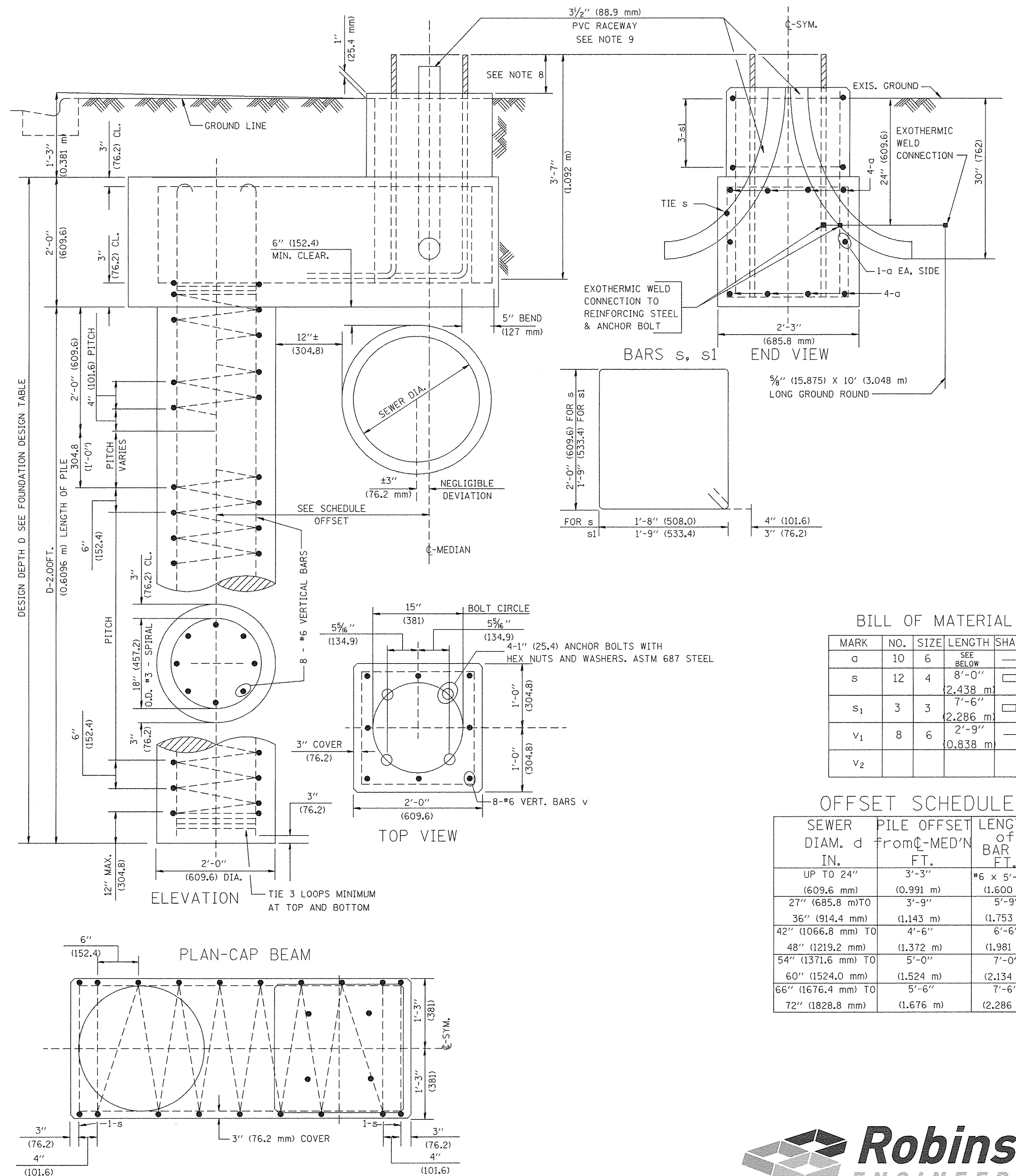


FOUNDATION DESIGN TABLE

TYPE OF SOIL	DESIGN DEPTH OF FOUNDATION		REINFORCEMENT IN FOUNDATION			
	SINGLE ARM D	TWIN ARM D	SINGLE ARM		TWIN ARM	
			VERT BARS	SPIRAL	VERT BARS	SPIRAL
SOFT CLAY	13'-0" (3.962 m)	15'-0" (4.572 m)	8-#6X12'-6" (3.810 m)	#3X122' (37.186 m)	8-#6X14'-3" (4.343 m)	#3X141' (42.977 m)
MEDIUM CLAY	9'-6" (2.896 m)	10'-9" (3.277 m)	8-#6X9'-0" (2.743 m)	#3X90' (27.432 m)	8-#6X10'-0" (3.048 m)	#3X100' (30.480 m)
STIFF CLAY	7'-0" (2.134 m)	8'-0" (2.438 m)	8-#6X6'-6" (1.981 m)	#3X66' (20.112 m)	8-#6X7'-6" (2.286 m)	#3X76' (23.165 m)
LOOSE SAND	9'-0" (2.743 m)	10'-0" (3.048 m)	8-#6X8'-6" (2.591 m)	#3X85' (25.908 m)	8-#6X9'-6" (2.896 m)	#3X94' (28.651 m)
MEDIUM SAND	8'-3" (2.515 m)	9'-0" (2.743 m)	8-#6X8'-0" (2.438 m)	#3X78' (23.774 m)	8-#6X8'-6" (2.591 m)	#3X85' (25.908 m)
DENSE SAND	7'-9" (2.362 m)	9'-0" (2.743 m)	8-#6X7'-6" (2.286 m)	#3X73' (22.250 m)	8-#6X8'-6" (2.591 m)	#3X85' (25.908 m)
ROCK OR SOLIDIFIED SLAG	5'-0" (1.524 m)	5'-0" (1.524 m)	NONE	NONE	NONE	NONE

NOTES

- ALL DIMENSIONS ARE IN INCHES (MILLIMETERS) UNLESS OTHERWISE SHOWN.
- THE ENGINEER SHALL DETERMINE THE CLASS OF SOIL DURING EXCAVATION AND SELECT THE DESIGN DEPTH OF FOUNDATION FROM THE DESIGN TABLE.
- EXCAVATION OF THE POLE FOUNDATION SHALL BE MADE WITH AN AUGER, 24" (609.6 mm) OR 30" (762.0 mm) IN DIAMETER.
- THE ANCHOR ROD SHALL BE A HOOK ROD TYPE. COLD BENDING OF THE ANCHOR ROD WILL NOT BE ALLOWED. THE RADIUS OF THE HOOK BEND SHALL NOT BE LESS THAN 4 TIMES THE NOMINAL DIAMETER OF THE ANCHOR ROD. A TACK WELDED ANCHOR ROD MAY BE SUBSTITUTED WITH THE APPROVAL OF THE ENGINEER.
- THE ANCHOR BOLTS AND RACEWAYS SHALL BE PROPERLY SECURED IN PLACE BEFORE THE CONCRETE IS PLACED IN THE FORM.
- THE ANCHOR RODS SHALL BE ACCORDING TO ASTM F1554 GRADE 725 (GRADE 105). NUTS SHALL BE HEXAGON NUTS ACCORDING TO ASTM A 194 2H OR ASTM A 563 DH, AND WASHERS SHALL BE ACCORDING TO ASTM F 436.
- THE CONTRACTOR SHALL COORDINATE EXTENSION OF ANCHOR BOLTS ABOVE TOP OF FOUNDATION WITH THE BREAKAWAY DEVICE MANUFACTURER'S REQUIREMENTS. IF LIGHT POLE IS MOUNTED WITHOUT BREAKAWAY DEVICE, ANCHOR BOLTS SHALL PROJECT 2 3/4" (69.9 mm) ABOVE TOP OF THE FOUNDATION. THE CONTRACTOR SHALL CONFIRM ANCHOR BOLT EXTENTION WITH ENGINEER.
- RACEWAYS SHALL PROJECT 1" (25.4 mm) ABOVE THE TOP OF THE FOUNDATION.
- THE CABLE TRENCH SHALL BE BACKFILLED AND FIRMLY COMPACTED BEFORE THE LIGHT IS ERECTED.



BILL OF MATERIAL

MARK	NO.	SIZE	LENGTH	SHAPE
a	10	6	SEE BELOW	—
s	12	4	8'-0" (2.438 m)	□
s1	3	3	7'-6" (2.286 m)	□
v1	8	6	0.838 m	—
v2				

OFFSET SCHEDULE

SEWER DIAM. d IN.	PILE OFFSET from C-MED'N FT.	LENGTH of BAR a FT.
UP TO 24" (609.6 mm)	3'-3" (0.991 m)	#6 x 5'-3" (1.600 m)
27" (685.8 mm) TO	3'-9" (1.143 m)	5'-9" (1.753 m)
36" (914.4 mm)	(1.143 m)	(1.753 m)
42" (1066.8 mm) TO	4'-6" (1.372 m)	6'-6" (1.981 m)
48" (1219.2 mm)	(1.372 m)	(1.981 m)
54" (1371.6 mm) TO	5'-0" (1.524 m)	7'-0" (2.134 m)
60" (1524.0 mm)	(1.524 m)	(2.134 m)
66" (1676.4 mm) TO	5'-6" (1.676 m)	7'-6" (2.286 m)
72" (1828.8 mm)	(1.676 m)	(2.286 m)



STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

191ST STREET IMPROVEMENTS
STREET LIGHTING DETAILS

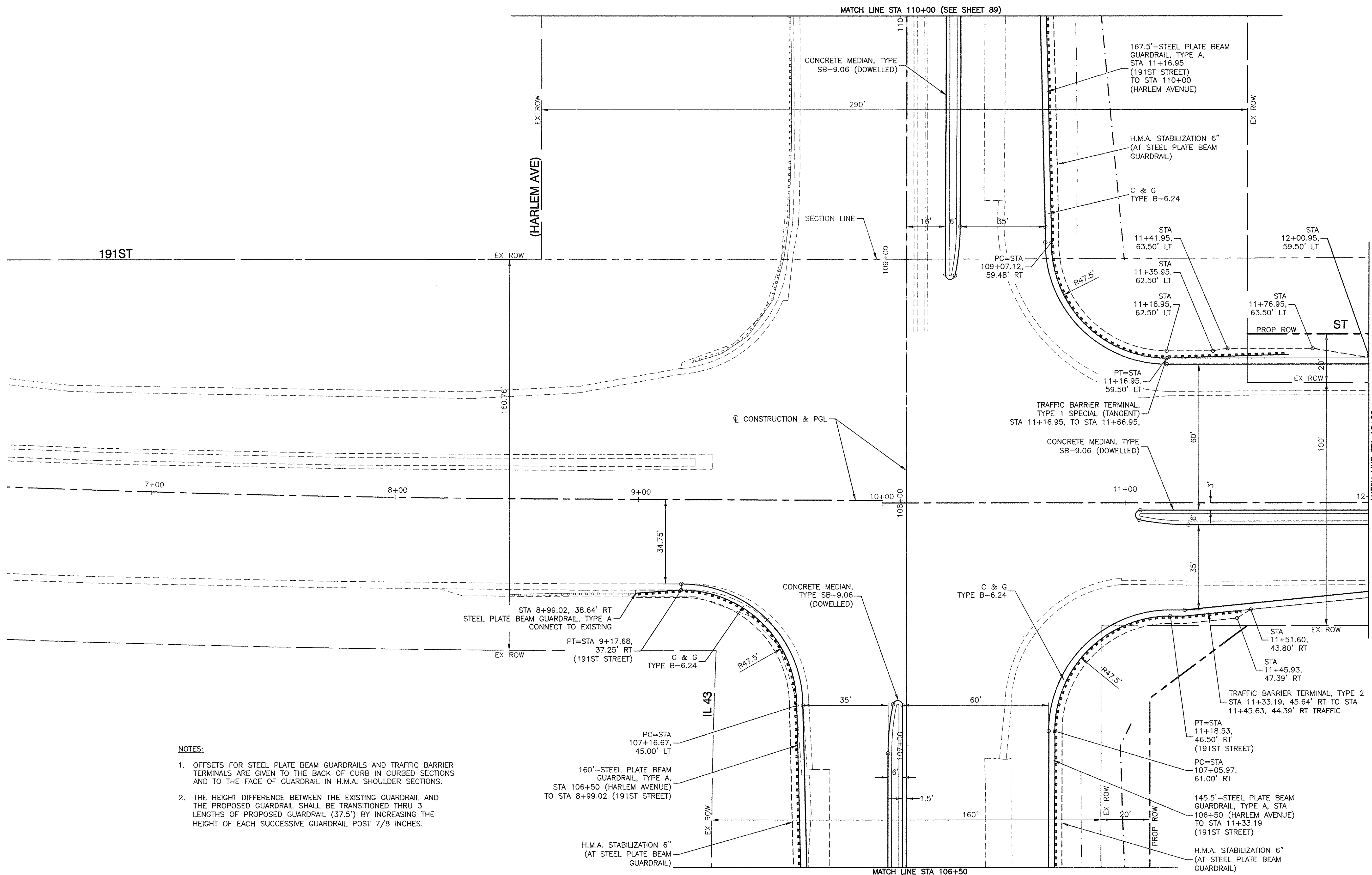
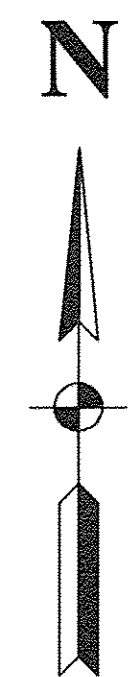
F.A.U. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
3754	01-00098-00-RS	COOK	108	85

CONTRACT NO. 61A03

FILE NAME	USER NAME	DESIGNED	REVISIONS
04252-LGHT-02		WPD	
		WPD	
		ACAD	
		ACAD	

SCALE: SHEET NO. 85 OF 108 SHEETS STA. TO STA.

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



- NOTES:**
1. OFFSETS FOR STEEL PLATE BEAM GUARDRAILS AND TRAFFIC BARRIER TERMINALS ARE GIVEN TO THE BACK OF CURB IN CURBED SECTIONS AND TO THE FACE OF GUARDRAIL IN H.M.A. SHOULDER SECTIONS.
 2. THE HEIGHT DIFFERENCE BETWEEN THE EXISTING GUARDRAIL AND THE PROPOSED GUARDRAIL SHALL BE TRANSITIONED THRU 3 LENGTHS OF PROPOSED GUARDRAIL (37.5') BY INCREASING THE HEIGHT OF EACH SUCCESSIVE GUARDRAIL POST 7/8 INCHES.

**STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION**

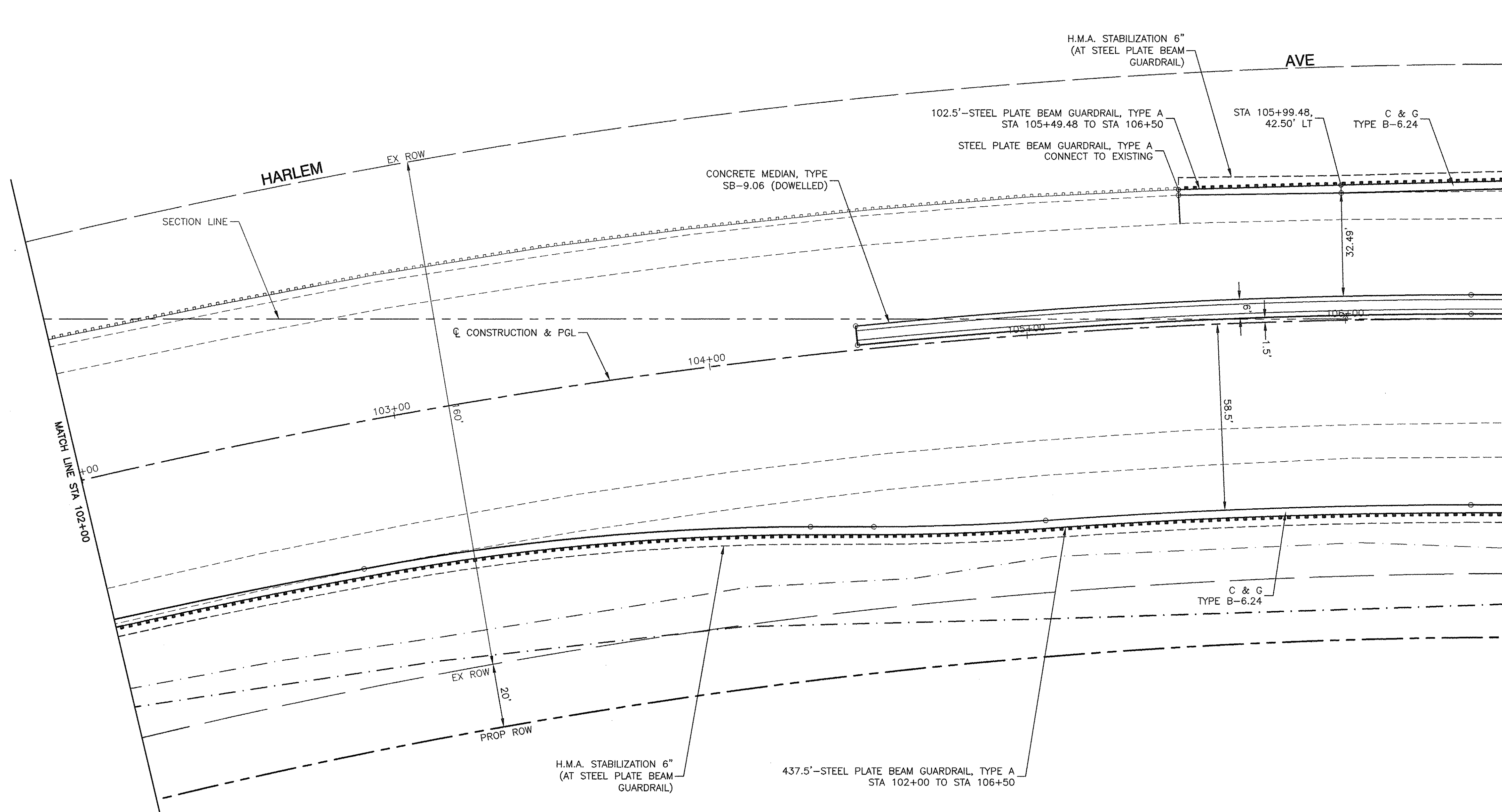
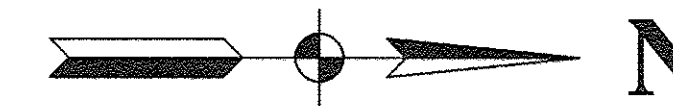
**191ST STREET IMPROVEMENT
191ST ST AND IL 43 (HARLEM AVENUE)
GUARDRAIL DETAIL PLANS**

FILE NAME = 04252GDRL-01 - P01

USER NAME =	DESIGNED -- WPD	REVISED --
	CHECKED -- WPD	REVISED --
PLOT SCALE =	DRAWN -- MD	REVISED --
PLOT DATE = 12-05-16	CHECKED -- ACAD	REVISED --

F.A.U. RTE. 3754	SECTION 01-00098-00-RS	COUNTY COOK	TOTAL SHEETS 108	SHEET NO. 86
CONTRACT NO. 61A03				
FED. ROAD DIST. NO. 1 ILLINOIS FED. AID PROJECT				

SCALE: 1"=20' SHEET NO. 86 OF 108 SHEETS STA. TO STA.



NOTES:

1. OFFSETS FOR STEEL PLATE BEAM GUARDRAILS AND TRAFFIC BARRIER TERMINALS ARE GIVEN TO THE BACK OF CURB IN CURBED SECTIONS AND TO THE FACE OF GUARDRAIL IN H.M.A. SHOULDER SECTIONS.
2. THE HEIGHT DIFFERENCE BETWEEN THE EXISTING GUARDRAIL AND THE PROPOSED GUARDRAIL SHALL BE TRANSITIONED THRU 3 LENGTHS OF PROPOSED GUARDRAIL (37.5') BY INCREASING THE HEIGHT OF EACH SUCCESSIVE GUARDRAIL POST 7/8 INCHES.

FILE NAME = 04252-GDRL-01 - P02

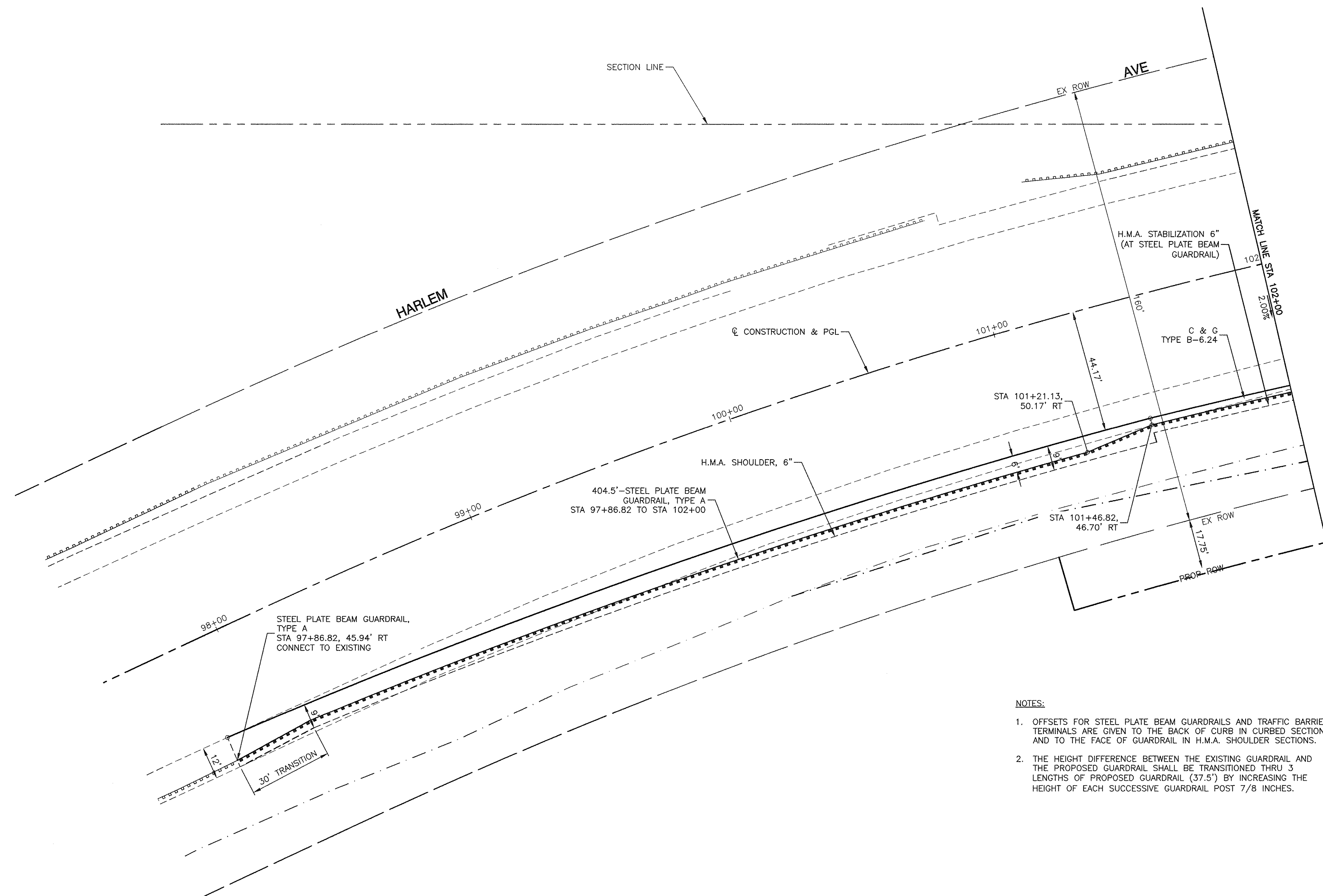
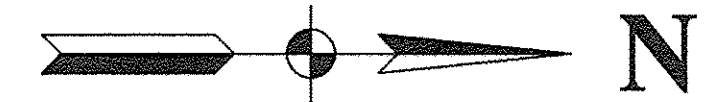
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PLOT SCALE =	DRAWN -- MD	REVISD --
PLOT DATE = 12-05-16	CHECKED -- ACAD	REVISD --

**STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION**

191ST STREET IMPROVEMENT 191ST ST AND IL 43 (HARLEM AVENUE) GUARDRAIL DETAIL PLANS		
SCALE: 1"=20'	SHEET NO. 87 OF 108 SHEETS	STA. TO STA.

F.A.U. RTE. 3754	SECTION 01-00098-00-RS	COUNTY COOK	TOTAL SHEETS 108	SHEET NO. 87
FED. ROAD DIST. NO. 1		ILLINOIS	FED. AID PROJECT	

CONTRACT NO. 61A03



NOTES:

1. OFFSETS FOR STEEL PLATE BEAM GUARDRAILS AND TRAFFIC BARRIER TERMINALS ARE GIVEN TO THE BACK OF CURB IN CURBED SECTIONS AND TO THE FACE OF GUARDRAIL IN H.M.A. SHOULDER SECTIONS.
2. THE HEIGHT DIFFERENCE BETWEEN THE EXISTING GUARDRAIL AND THE PROPOSED GUARDRAIL SHALL BE TRANSITIONED THRU 3 LENGTHS OF PROPOSED GUARDRAIL (37.5') BY INCREASING THE HEIGHT OF EACH SUCCESSIVE GUARDRAIL POST 7/8 INCHES.

FILE NAME = 04252-GDRL-01 - P03

USER NAME =	DESIGNED — WPD	REVISED —
	CHECKED — WPD	REVISED —
PLOT SCALE =	DRAWN — MD	REVISED —
PLOT DATE = 12-05-16	CHECKED — ACAD	REVISED —

**STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION**

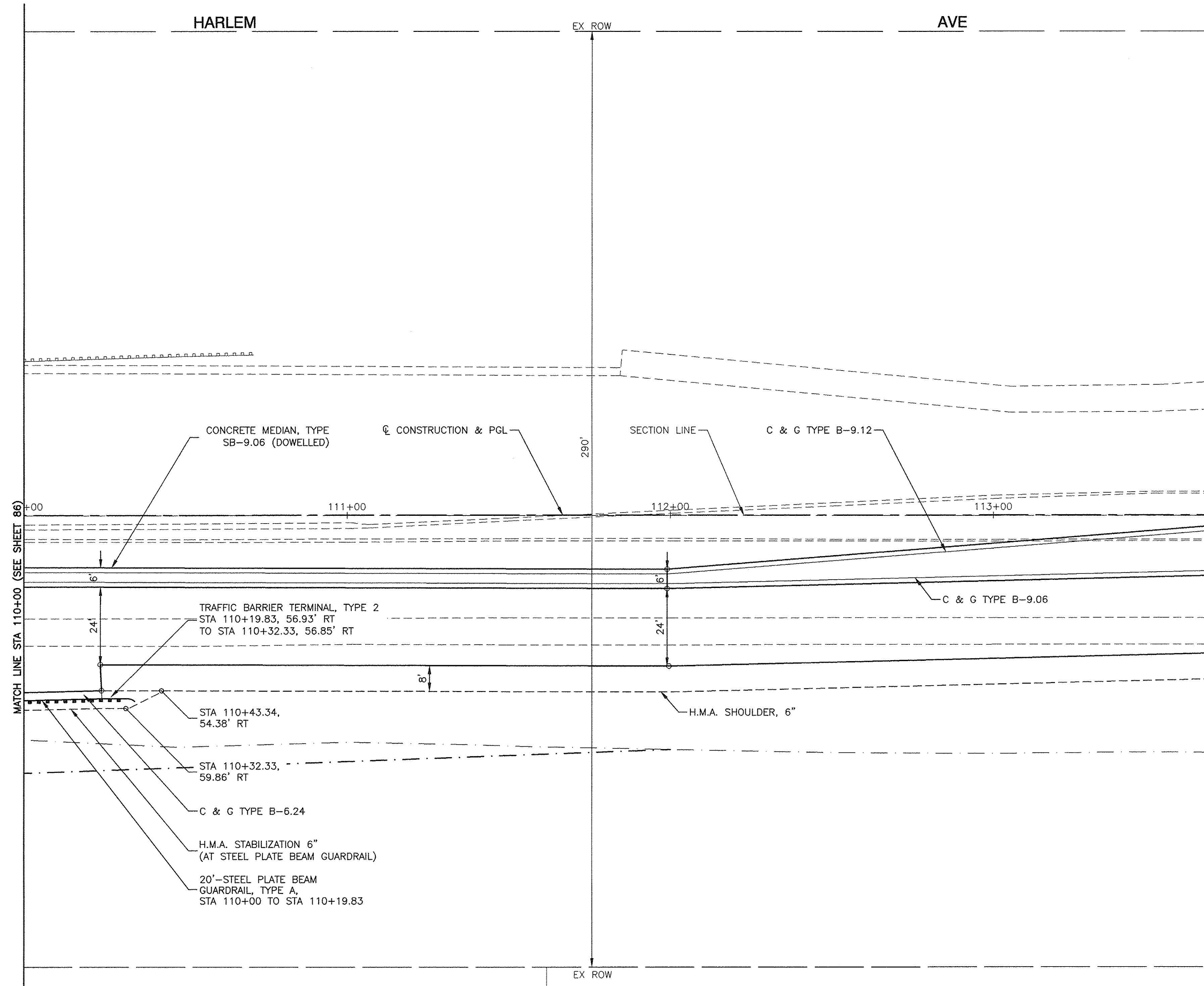
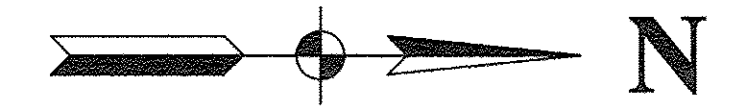
**191ST STREET IMPROVEMENT
191ST ST AND IL 43 (HARLEM AVENUE)
GUARDRAIL DETAIL PLANS**

SCALE: 1"=20'

SHEET NO. 88 OF 108 SHEETS

STA. TO STA.

F.A.U. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
3754	01-00098-00-RS	COOK	108	88
FED. ROAD DIST. NO. 1 ILLINOIS FED. AID PROJECT			CONTRACT NO. 61A03	



NOTES:

1. OFFSETS FOR STEEL PLATE BEAM GUARDRAILS AND TRAFFIC BARRIER TERMINALS ARE GIVEN TO THE BACK OF CURB IN CURBED SECTIONS AND TO THE FACE OF GUARDRAIL IN H.M.A. SHOULDER SECTIONS.
2. THE HEIGHT DIFFERENCE BETWEEN THE EXISTING GUARDRAIL AND THE PROPOSED GUARDRAIL SHALL BE TRANSITIONED THRU 3 LENGTHS OF PROPOSED GUARDRAIL (37.5') BY INCREASING THE HEIGHT OF EACH SUCCESSIVE GUARDRAIL POST 7/8 INCHES.

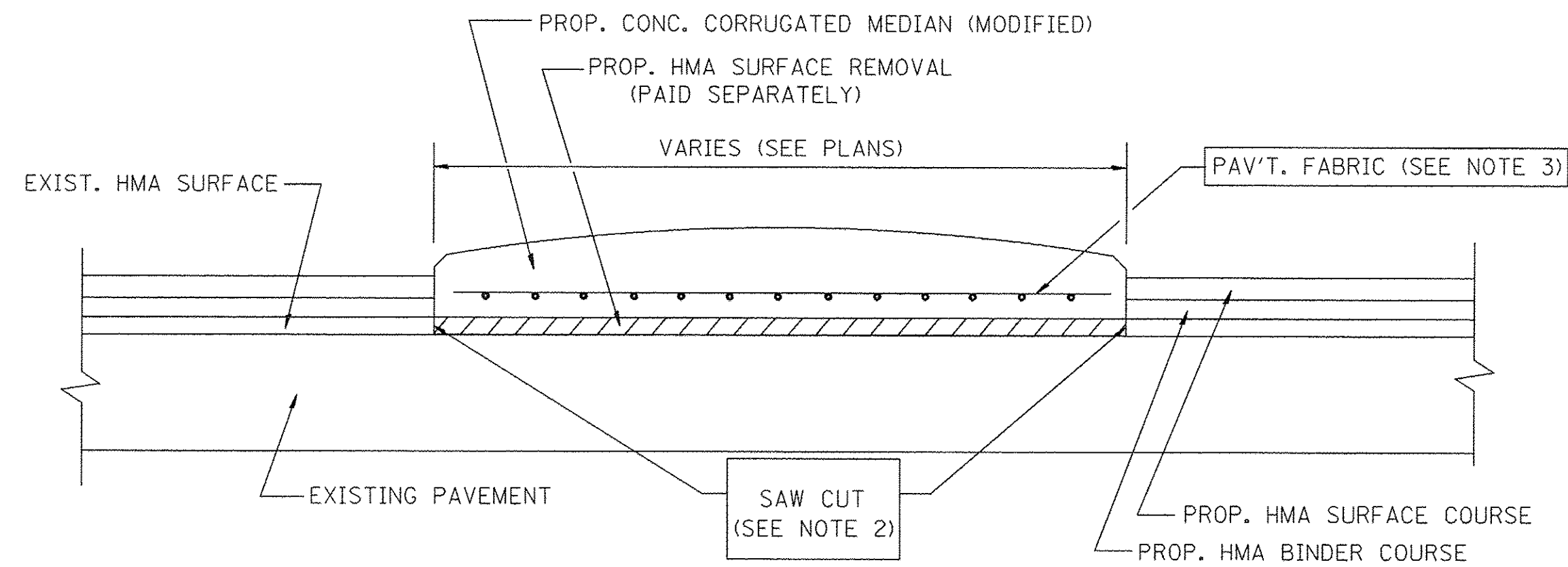
FILE NAME = 04262-GDRL-01 - P04

USER NAME =	DESIGNED -- WPD	REVISED --
	CHECKED -- WPD	REVISED --
PLOT SCALE =	DRAWN -- MD	REVISED --
PLOT DATE = 12-05-16	CHECKED -- ACAD	REVISED --

**STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION**

191ST STREET IMPROVEMENT 191ST ST AND IL 43 (HARLEM AVENUE) GUARDRAIL DETAIL PLANS		
SCALE: 1"=20'	SHEET NO. 89 OF 108 SHEETS	STA. TO STA.

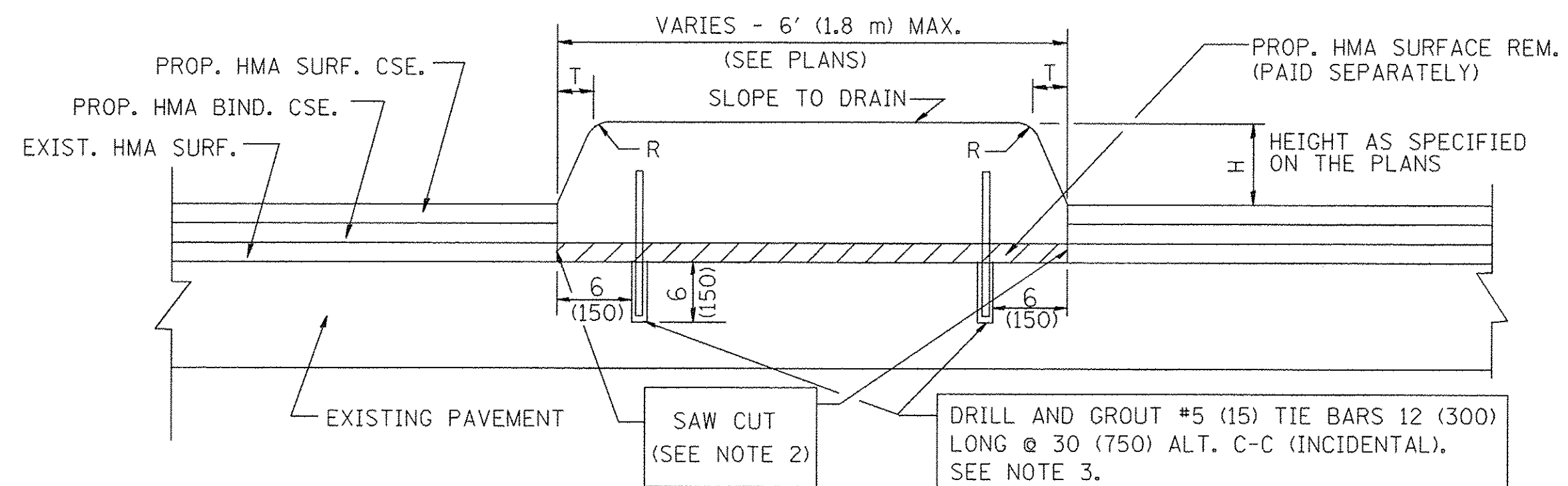
F.A.U. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
3754	01-00098-00-RS	COOK	108	89
FED. ROAD DIST. NO. 1 ILLINOIS FED. AID PROJECT			CONTRACT NO. 61A03	



- NOTES:
1. CORRUGATED MEDIAN (MODIFIED) SHALL BE CONSTRUCTED IN ACCORDANCE WITH SECTION 606 OF THE STANDARD SPECIFICATIONS AND THE APPLICABLE PORTIONS OF STATE STANDARD 606306.
 2. WITH THE APPROVAL OF THE ENGINEER, THE CONTRACTOR MAY DELETE THE SAW CUT IF A NEAT JOINT CAN BE OBTAINED BY MILLING THE HMA SURFACE TO BE REMOVED. SAW CUT WILL BE INCLUDED IN THE COST OF CORRUGATED MEDIAN (MODIFIED)
 3. PAVEMENT FABRIC WILL BE INCLUDED IN THE COST OF CORRUGATED MEDIAN (MODIFIED)

DETAILS FOR CORRUGATED MEDIAN (MODIFIED)

THIS WORK WILL BE PAID FOR AT THE CONTRACT UNIT PRICE PER SQUARE FOOT (SQUARE METER) FOR "CORRUGATED MEDIAN (MODIFIED)"



- NOTES:
1. CONCRETE MEDIAN TYPE SB (DOWELLED) SHALL BE CONSTRUCTED IN ACCORDANCE WITH THE APPLICABLE PORTIONS OF STATE STANDARD 606301 AND SECTION 606 OF THE STANDARD SPECIFICATIONS.
 2. WITH THE APPROVAL OF THE ENGINEER, THE CONTRACTOR MAY DELETE THE SAW CUT IF A NEAT JOINT CAN BE OBTAINED BY MILLING THE HMA SURFACE TO BE REMOVED. SAW CUT WILL BE INCLUDED IN THE COST OF "CONCRETE MEDIAN TYPE SB (DOWELLED)"
 3. FOR MEDIAN WIDTH LESS THAN 4' (1.2 m) USE ONE ROW OF #5 (15) BARS @ 30 (750) C-C ALONG THE MEDIAN CENTERLINE. TIE BARS WILL BE INCLUDED IN THE COST OF "CONCRETE MEDIAN TYPE SB (DOWELLED)"

H	R	T
6(150)	1(25)	1(25)
9(225)	1(25)	2(50)

DETAILS FOR CONCRETE MEDIAN

TYPE SB (DOWELLED)

THIS WORK WILL BE PAID FOR AT THE CONTRACT UNIT PRICE PER SQUARE FOOT (SQUARE METER) FOR "CONCRETE MEDIAN TYPE SB 9.06 (SPECIAL)"

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

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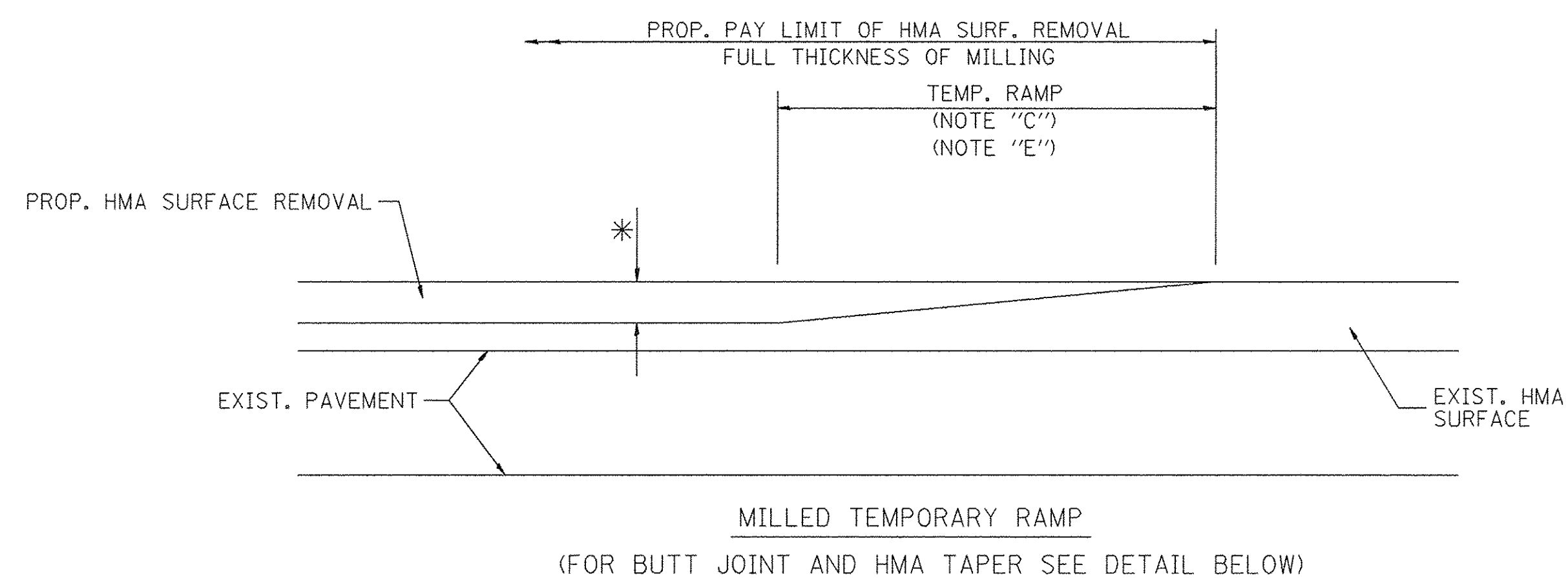
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 DRAWN -
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REVISED - R. SHAH 09-09-94
 REVISED - R. SHAH 10-25-94
 REVISED - E. GOMEZ 08-28-00
 REVISED - R. BORO 01-01-07

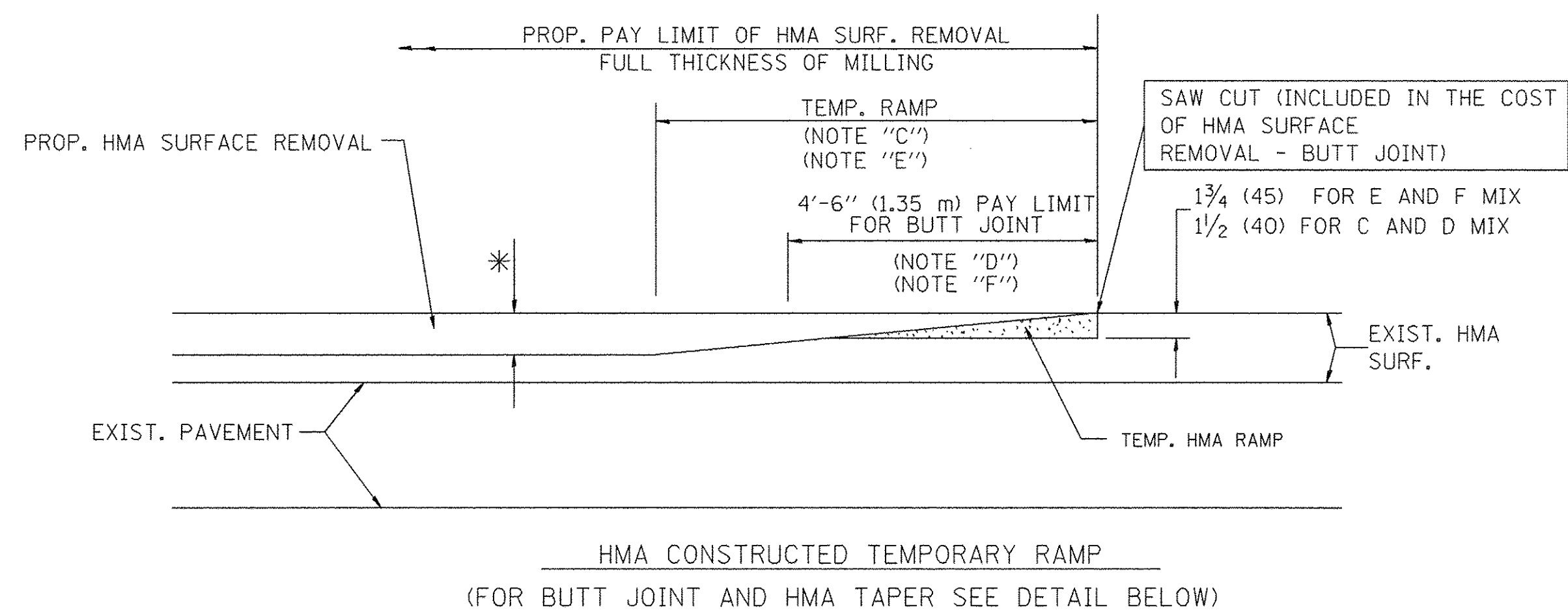
**STATE OF ILLINOIS
 DEPARTMENT OF TRANSPORTATION**

**DETAILS FOR CONCRETE MEDIAN TYPE SB (DOWELLED)
 CORRUGATED MEDIAN (MODIFIED)**
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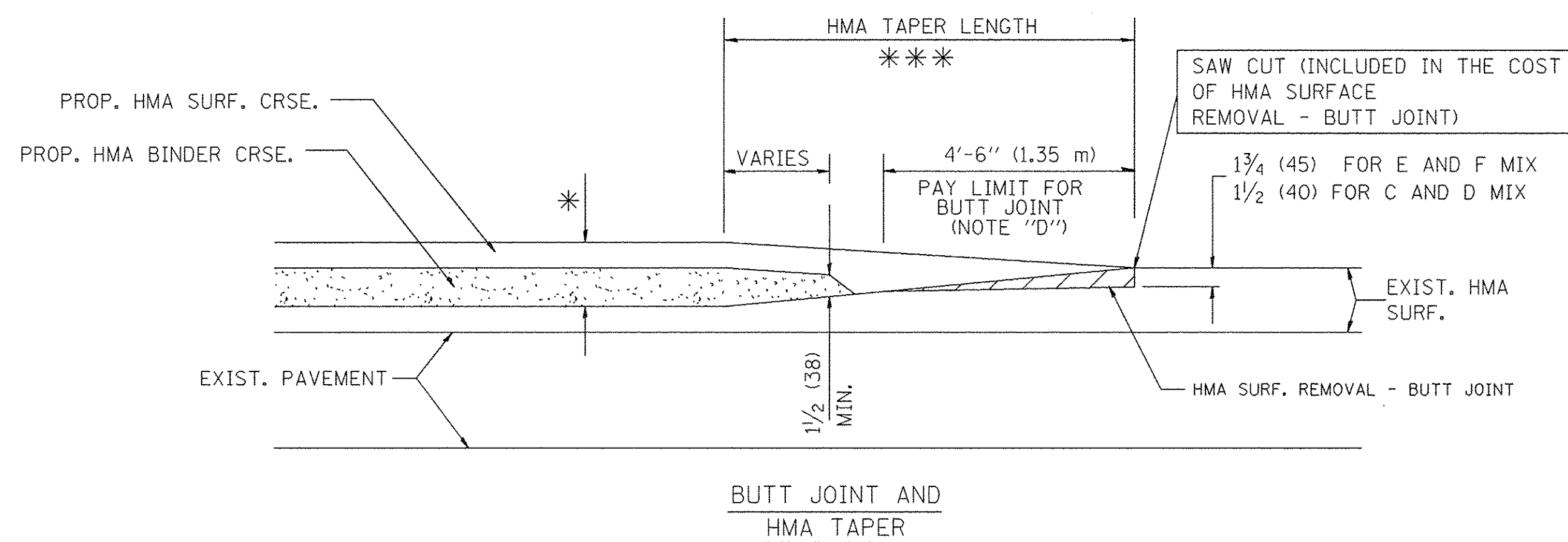
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BD600-02	(BD-5)		108	90
FED. ROAD DIST. NO. 1 ILLINOIS FED. AID PROJECT			CONTRACT NO. 61A03	



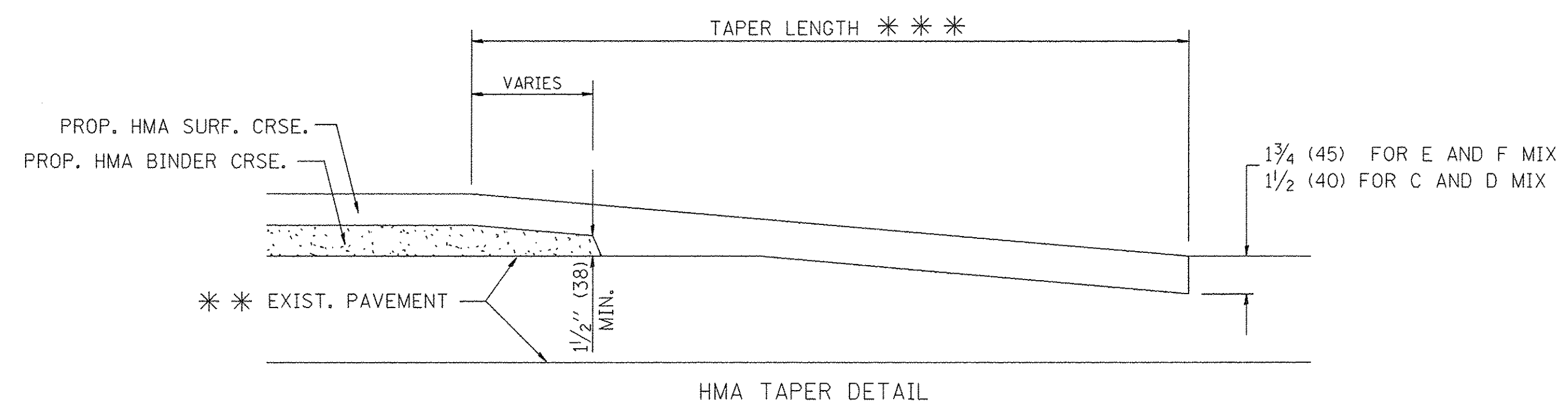
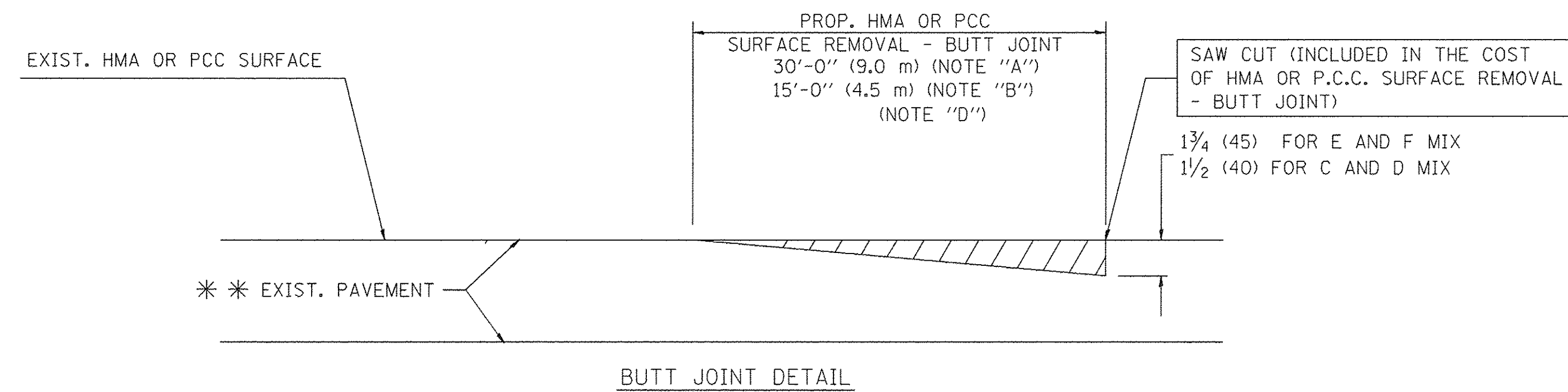
OPTION 1



OPTION 2
TYPICAL TEMPORARY RAMP



TYPICAL BUTT JOINT AND HMA TAPER
FOR MILLING AND RESURFACING



TYPICAL BUTT JOINT AND HMA TAPER
FOR RESURFACING ONLY

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

NOTES

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

BASIS OF PAYMENT:

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

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

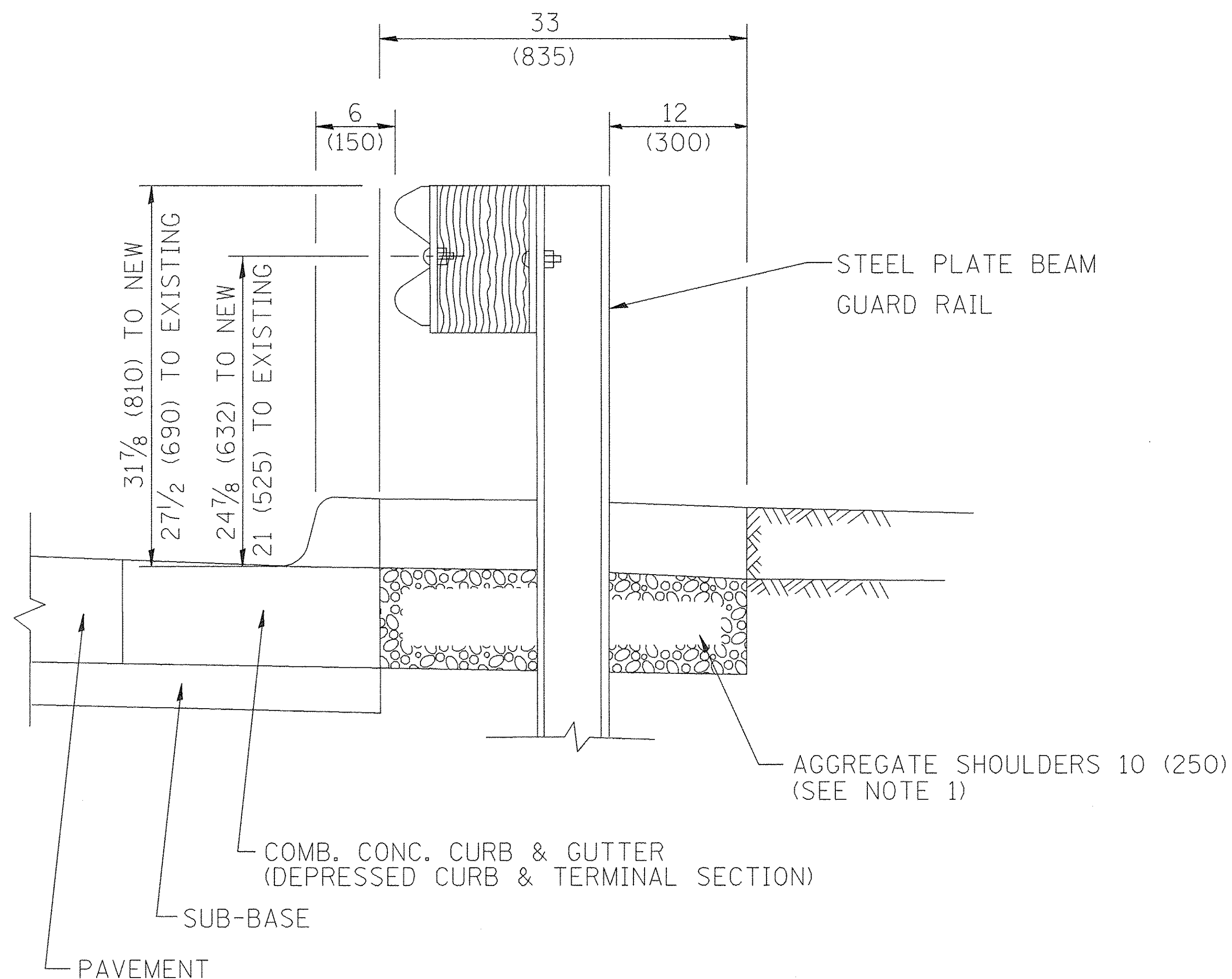
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	PLOT SCALE = 50,0000 "/ IN.	CHECKED -	REVISED - M. GOMEZ 04-06-01
	PLOT DATE = 1/4/2008	DATE - 06-13-90	REVISED - R. BORO 01-01-07

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

BUTT JOINT AND
HMA TAPER DETAILS

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

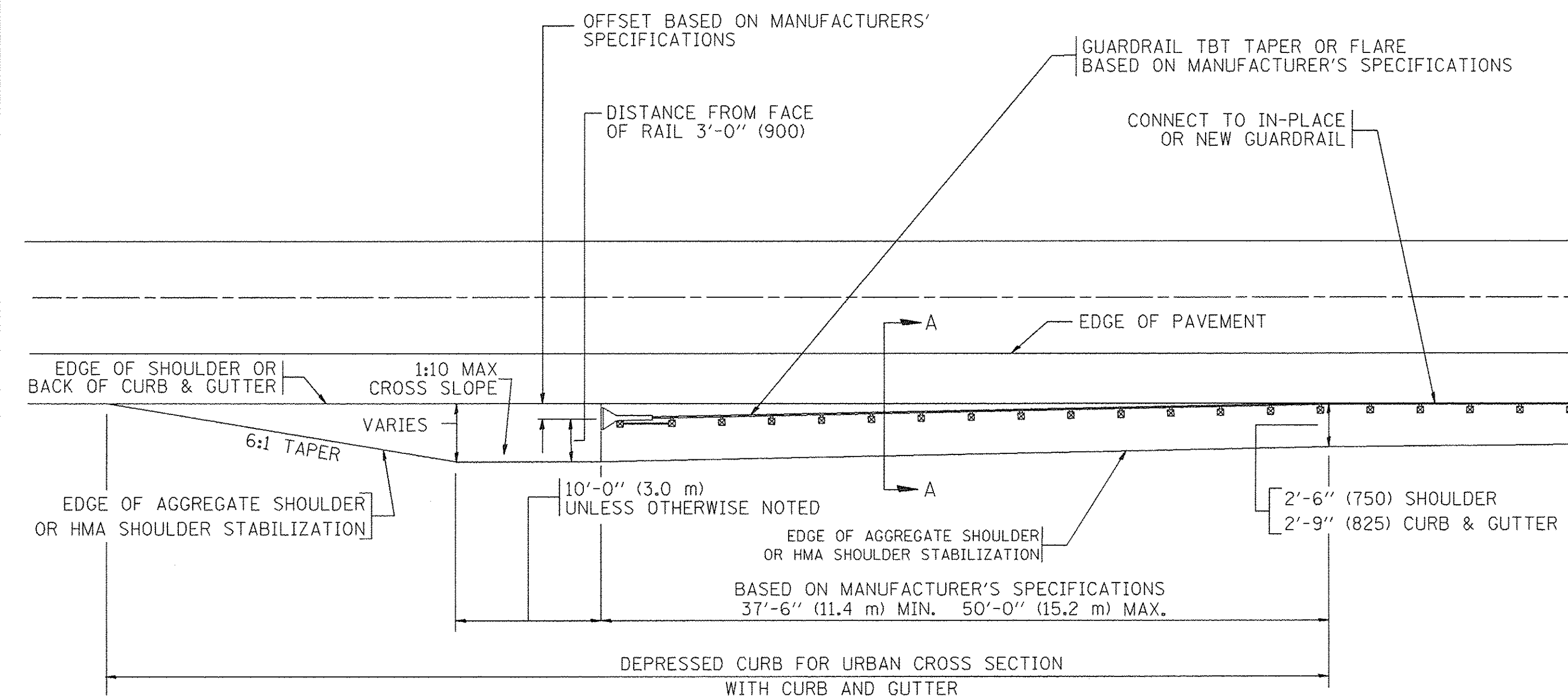
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			108	91
BD400-05 BD32			CONTRACT NO. 61A03	
FED. ROAD DIST. NO. 1 ILLINOIS FED. AID PROJECT				



SECTION A-A

- NOTES:
1. THE AGGREGATE SHOULDER, 10" OR HMA SHOULDER, 6" (IF REQUIRED) SHALL EXTEND UNDER THE TRAFFIC BARRIER TERMINAL.
 2. "EXISTING" GUARDRAIL REFERS TO CONNECTING TERMINAL SECTION TO GUARD RAILING PRIOR TO THE MIDWEST GUARDRAIL SYSTEM.
 3. THE CONTRACTOR SHALL VERIFY THE TYPE/HEIGHT OF GUARDRAIL IN-PLACE BEFORE ORDERING THE NEW TERMINAL SECTION. COST INCLUDED WITH THE COST OF THE TERMINAL. THE TERMINAL SECTION HEIGHT TO BE PLACED MUST MATCH THE HEIGHT OF THE IN-PLACE GUARDRAIL.

DETAILS FOR STEEL PLATE BEAM
GUARD RAIL ADJACENT TO CURB AND GUTTER
[FOR ROADWAY SPEED 35 MPH (60 kmh) TO 45 MPH (70 kmh)]



DEPRESSED CURB AND GUTTER AND
SHOULDER TREATMENT AT TBT TY. 1 SPL.

BASIS OF PAYMENT: HMA SHOULDERS 6 (150) (IF REQUIRED) WILL BE PAID FOR AT THE CONTRACT UNIT PRICE PER SQUARE YARD (SQUARE METER) FOR "HOT-MIX ASPHALT SHOULDERS 6" (150 mm)".

STEEL PLATE BEAM GUARD RAIL AND TRAFFIC BARRIER TERMINAL, OF THE TYPE SPECIFIED WILL BE PAID FOR SEPARATELY.

TBT = TRAFFIC BARRIER TERMINAL

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

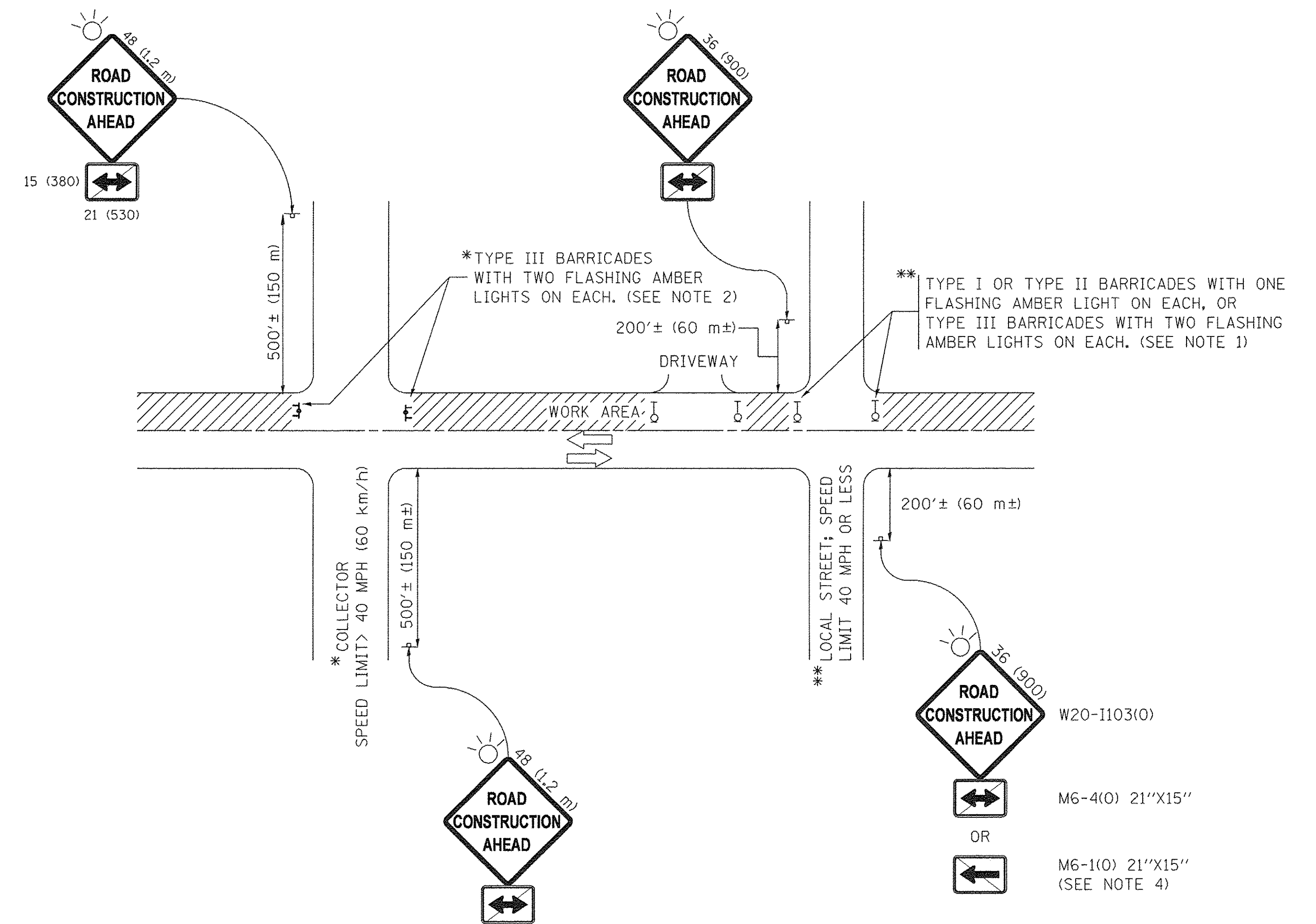
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	PLOT DATE = 9/21/2009	DATE - 09-22-90	REVISED - R. BORO 09-14-2009

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

DETAILS FOR DEPRESSED CURB & GUTTER AND
SHOULDER TREATMENT AT TBT TY 1 SPL.

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

F.A. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
			108	92
BD600-10 (BD 34)			CONTRACT NO. 61A03	
FED. ROAD DIST. NO. 1 ILLINOIS FED. AID PROJECT				



NOTES:

1. SIDE ROAD WITH A SPEED LIMIT OF 40 MPH (60 km/h) OR LESS AS SHOWN ON THE DRAWING AND AS DIRECTED BY THE ENGINEER:
 - a) ONE "ROAD CONSTRUCTION AHEAD" SIGN 36 x 36 (900x900) WITH A FLASHER MOUNTED ON IT APPROXIMATELY 200' (60 m) IN ADVANCE OF THE MAIN ROUTE.
 - b) THE CLOSED PORTION OF THE MAIN ROUTE SHALL BE PROTECTED BY BLOCKING WITH TYPE I, TYPE II OR TYPE III BARRICADES, 1/3 OF THE CROSS SECTION OF THE CLOSED PORTION.
2. SIDE ROAD WITH A SPEED LIMIT GREATER THAN 40 MPH (60 km/h) AS SHOWN ON THE DRAWING AND AS DIRECTED BY THE ENGINEER:
 - a) ONE "ROAD CONSTRUCTION AHEAD" SIGN 48 x 48 (1.2 m x 1.2 m) WITH A FLASHER MOUNTED ON IT APPROXIMATELY 500' (150 m) IN ADVANCE OF THE MAIN ROUTE.
 - b) THE CLOSED PORTION OF THE MAIN ROUTE SHALL BE PROTECTED BY BLOCKING WITH TYPE III BARRICADES, 1/2 OF THE CROSS SECTION OF THE CLOSED PORTION.
3. CONES MAY BE SUBSTITUTED FOR BARRICADES OR DRUMS AT HALF THE SPACING DURING DAY OPERATIONS. CONES SHALL BE A MINIMUM OF 28 (710) IN HEIGHT.
4. WHEN THE SIDE ROAD LIES BETWEEN THE BEGINNING OF THE MAINLINE SIGNING AND THE WORK ZONE, A SINGLE HEADED ARROW (M6-1) SHALL BE USED IN LIEU OF THE DOUBLE HEADED ARROW (M6-4).
5. WHEN WORK IS BEING PERFORMED ON A SIDE ROAD OR DRIVEWAY, FOLLOW THE APPLICABLE STANDARD(S). THE DIRECTIONAL ARROW (M6-1 OR M6-4) SHALL BE COVERED OR REMOVED WHEN NO LONGER CONSISTENT WITH THE TRAFFIC CONTROL SET-UP.
6. ADVANCE WARNING SIGNS ARE TO BE OMITTED ON DRIVEWAYS UNLESS OTHERWISE SPECIFIED IN THE PLANS OR BY THE ENGINEER.
7. THE TRAFFIC CONTROL AND PROTECTION FOR SIDE ROADS, INTERSECTIONS, AND DRIVEWAYS SHALL BE INCLUDED IN THE COST OF SPECIFIED TRAFFIC CONTROL STANDARDS OR ITEMS.

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

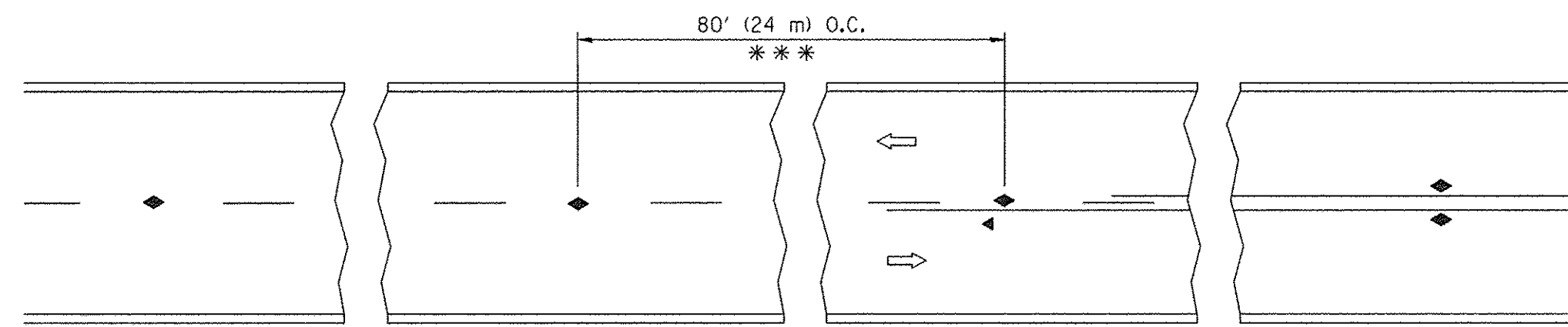
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	PLOT SCALE = 50.0000' / 1in.	CHECKED -	REVISED - A. SCHUETZE 07-01-13
Default	PLOT DATE = 9/15/2016	DATE - 06-89	REVISED - A. SCHUETZE 09-15-16

**STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION**

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

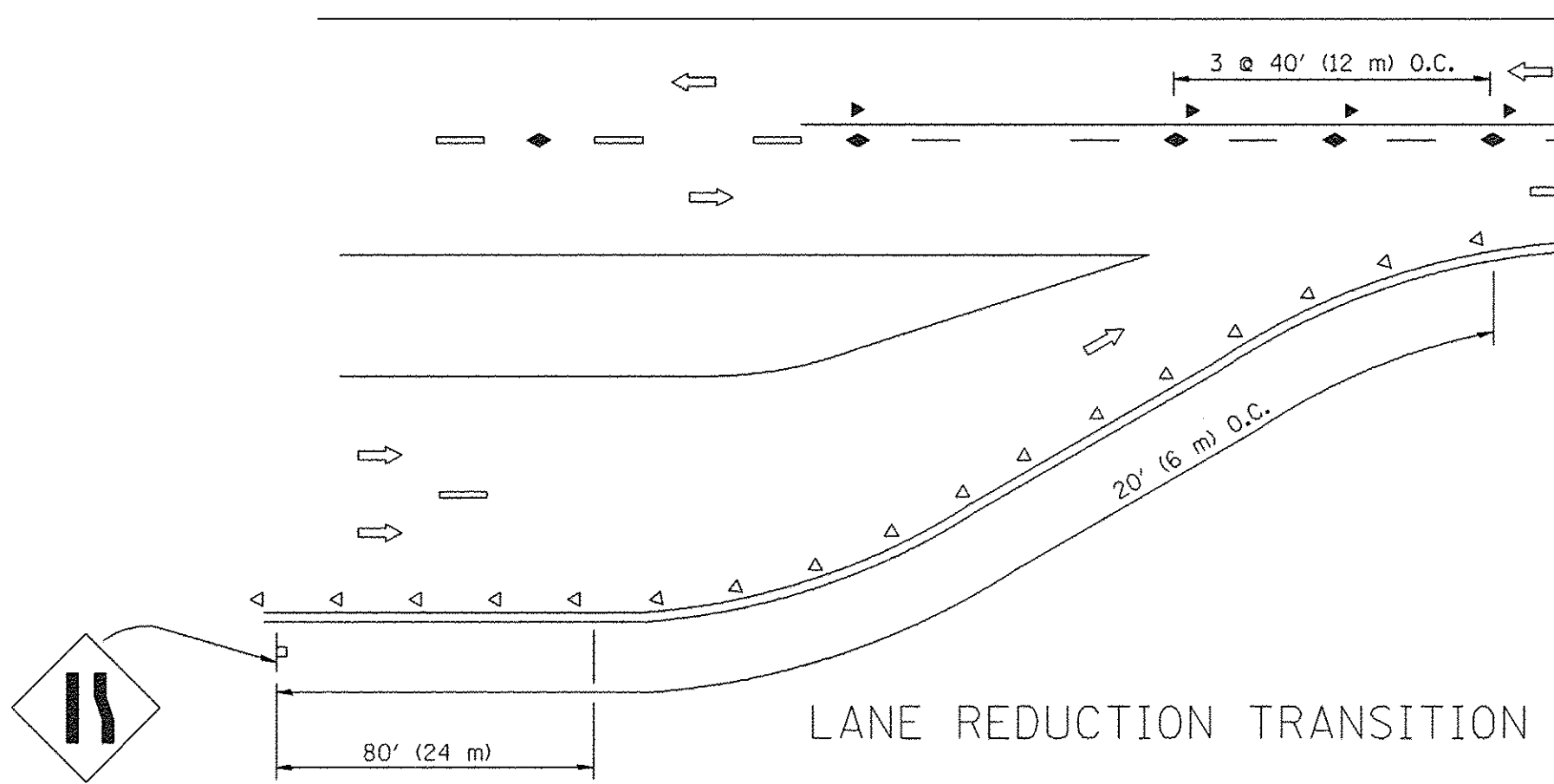
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F.A. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
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TC-10		CONTRACT NO. 61A03		
ILLINOIS FED. AID PROJECT				

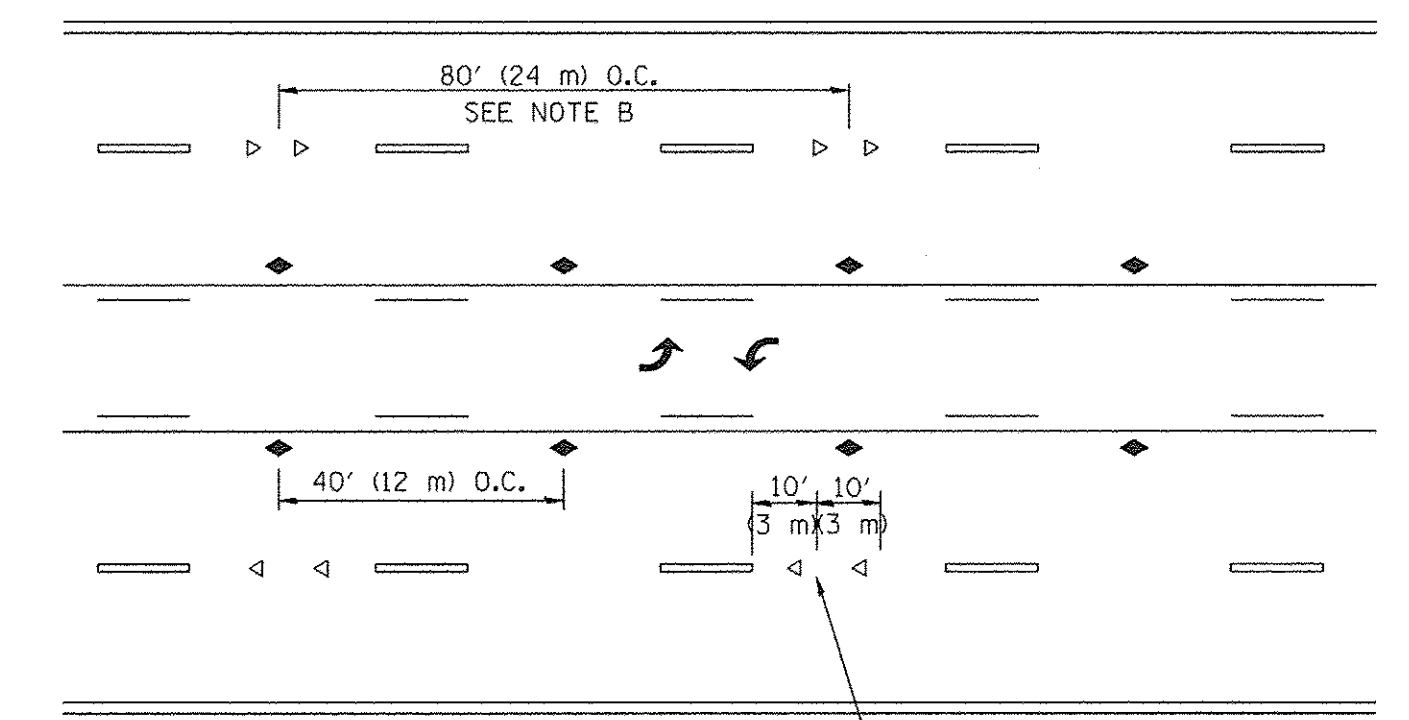


*** REDUCE TO 40' (12 m) O.C. ON CURVES WITH POSTED OR ADVISORY SPEED 45 M.P.H. (70 km/h) OR LESS.

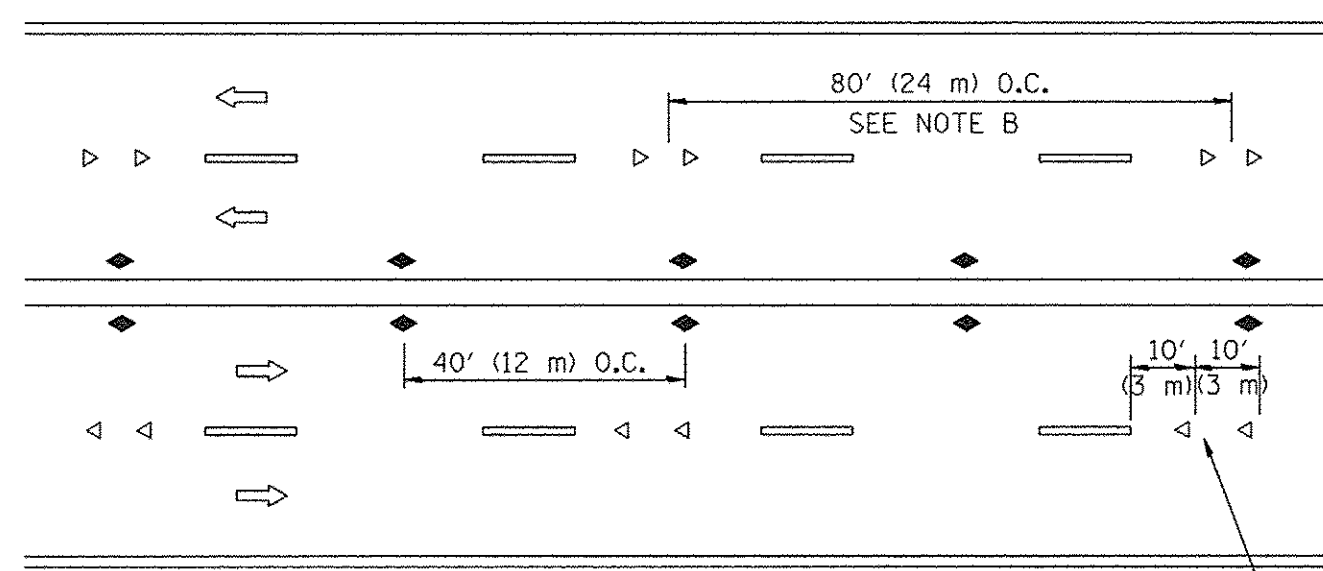
TWO-LANE/TWO-WAY



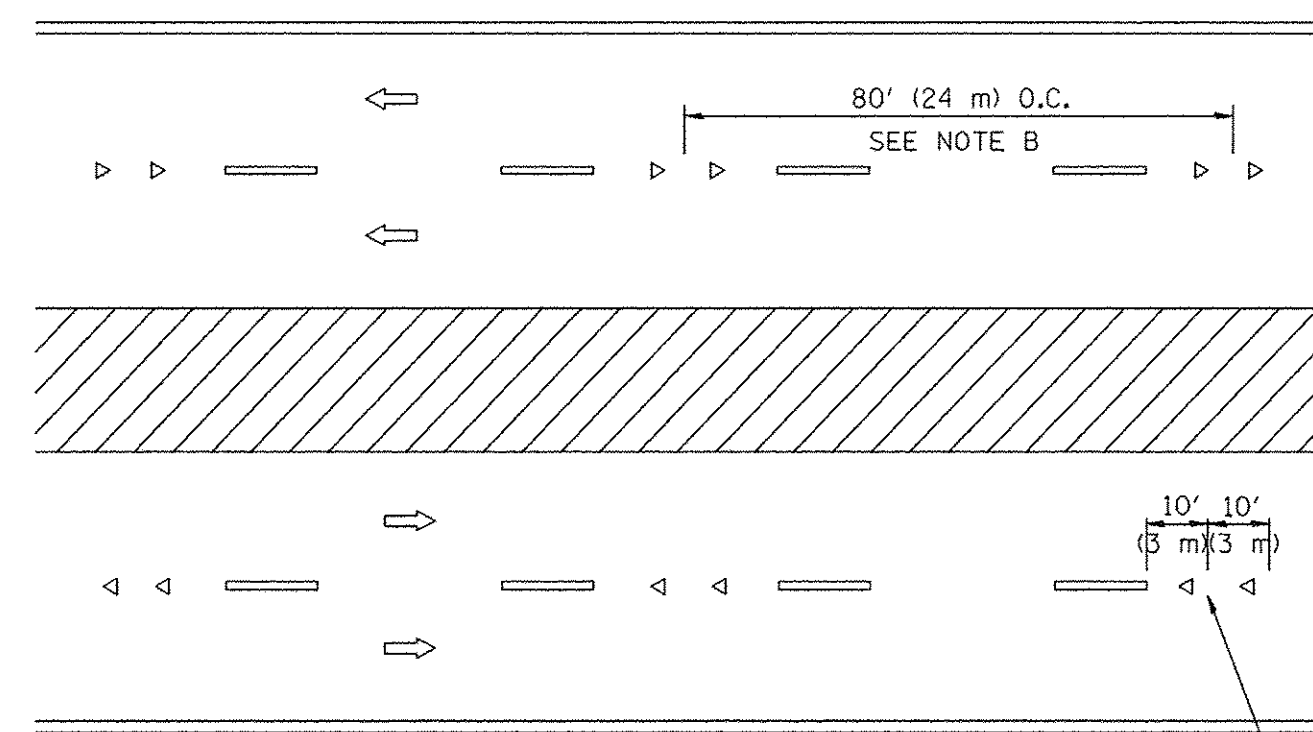
LANE REDUCTION TRANSITION



TWO-WAY LEFT TURN



MULTI-LANE/UNDIVIDED



MULTI-LANE/DIVIDED

GENERAL NOTES

1. MARKERS USED WITH DASHED LINES SHALL BE CENTERED IN THE GAP BETWEEN SEGMENTS.
2. MARKERS USED ADJACENT TO SOLID LINES SHALL BE OFFSET 2 TO 3 (50 TO 75) TOWARD TRAFFIC AS SHOWN.
3. MARKERS THROUGH TANGENTS LESS THAN 500' (150 m) IN LENGTH BETWEEN CURVES SHALL BE INSTALLED AT THE LESSER OF THE TWO CURVE SPACINGS.

SYMBOLS

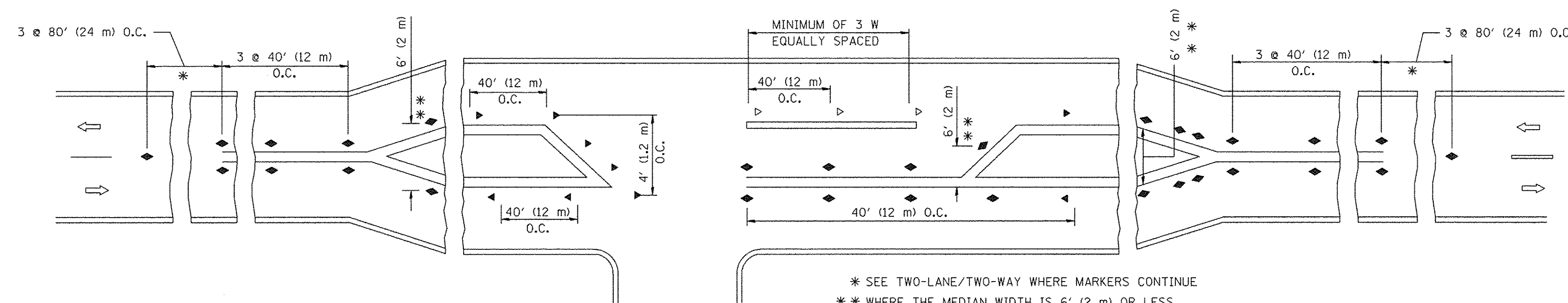
- YELLOW STRIPE
- WHITE STRIPE
- ◀ ONE-WAY AMBER MARKER
- ◁ ONE-WAY CRYSTAL MARKER (W/O)
- ◆ TWO-WAY AMBER MARKER

LANE MARKER NOTES

- A. USE DOUBLE LANE LINE MARKERS SPACED AS SHOWN.
 B. REDUCE TO 40' (12 m) O.C. ON CURVES WHERE ADVISORY SPEEDS ARE 10 M.P.H (20 km/h) LOWER THAN POSTED SPEEDS.

DESIGN NOTES

1. DOUBLE LANE LINE MARKERS SHALL BE USED UNLESS SPECIFIED OTHERWISE.
2. EXCEPT AS SHOWN ON THE LANE REDUCTION TRANSITION AND FREEWAY EXIT RAMP DETAIL, MARKERS ARE NOT TO BE SPECIFIED ON RIGHT EDGE LINES.
3. THE EXACT MARKER LIMITS, SPACING, AND COLOR SHALL BE INCLUDED IN THE PLANS WHEN STANDARD SPECIFICATIONS ARE NOT BEING USED.
4. MARKERS SHOULD NOT BE USED ALONGSIDE CURBS EXCEPT FOR EXTREMELY SHORT SECTIONS OF CURBS WHERE NOT MORE THAN TWO MARKERS WOULD BE INVOLVED.

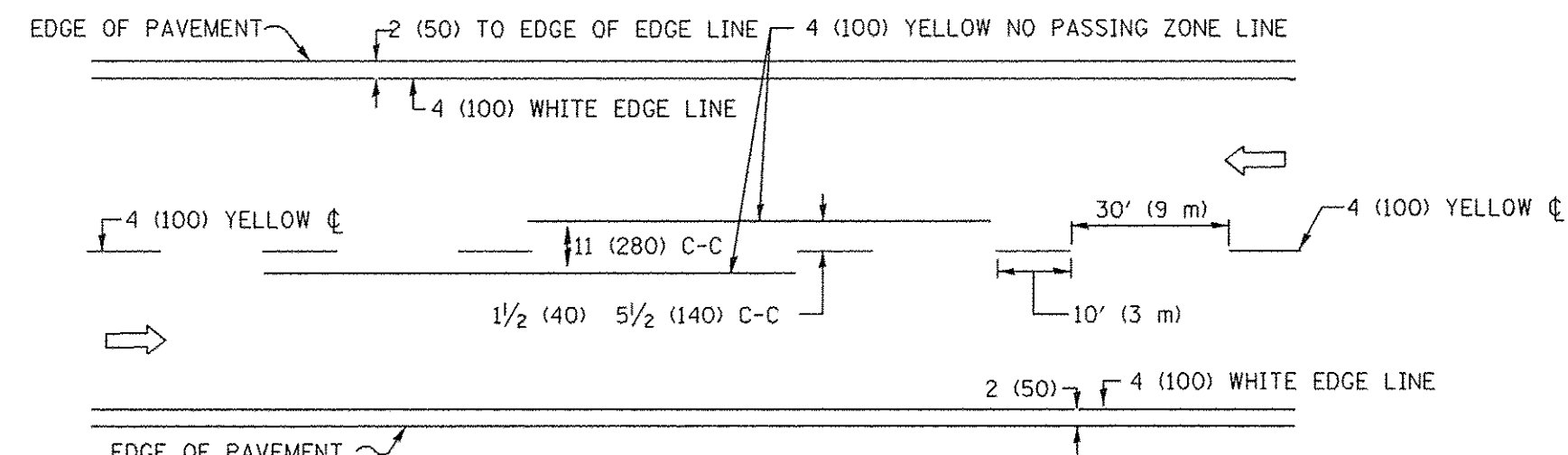


LEFT TURN

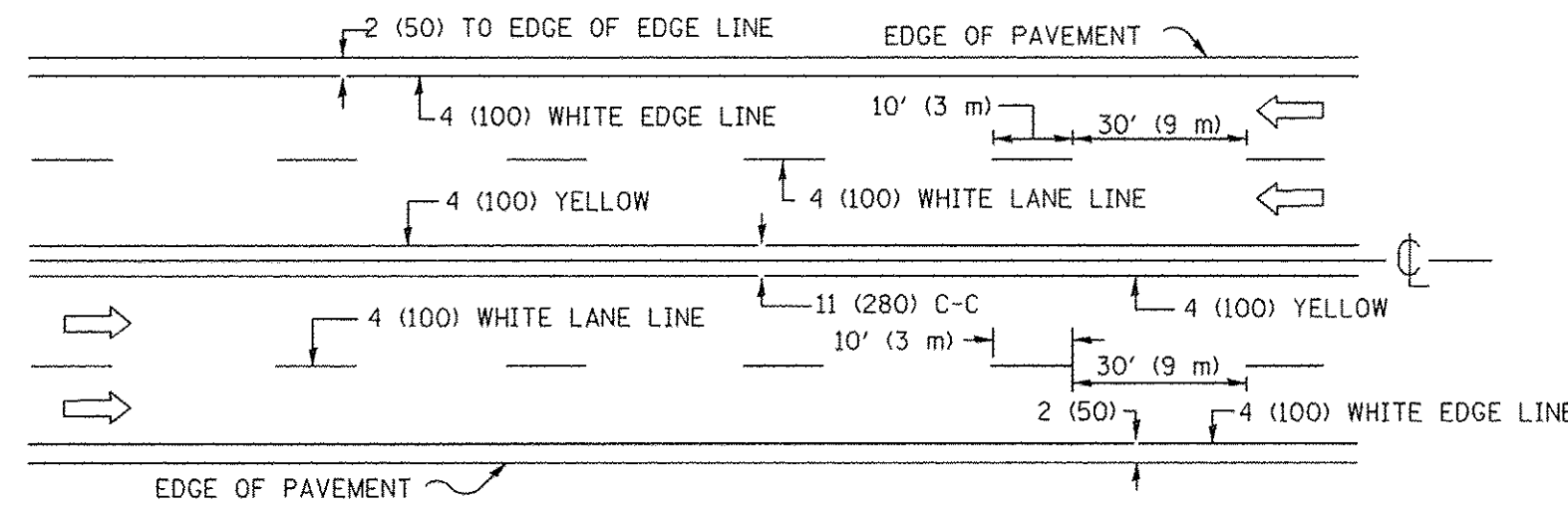
* SEE TWO-LANE/TWO-WAY WHERE MARKERS CONTINUE
 ** WHERE THE MEDIAN WIDTH IS 6' (2 m) OR LESS USE TWO-WAY MARKERS.

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

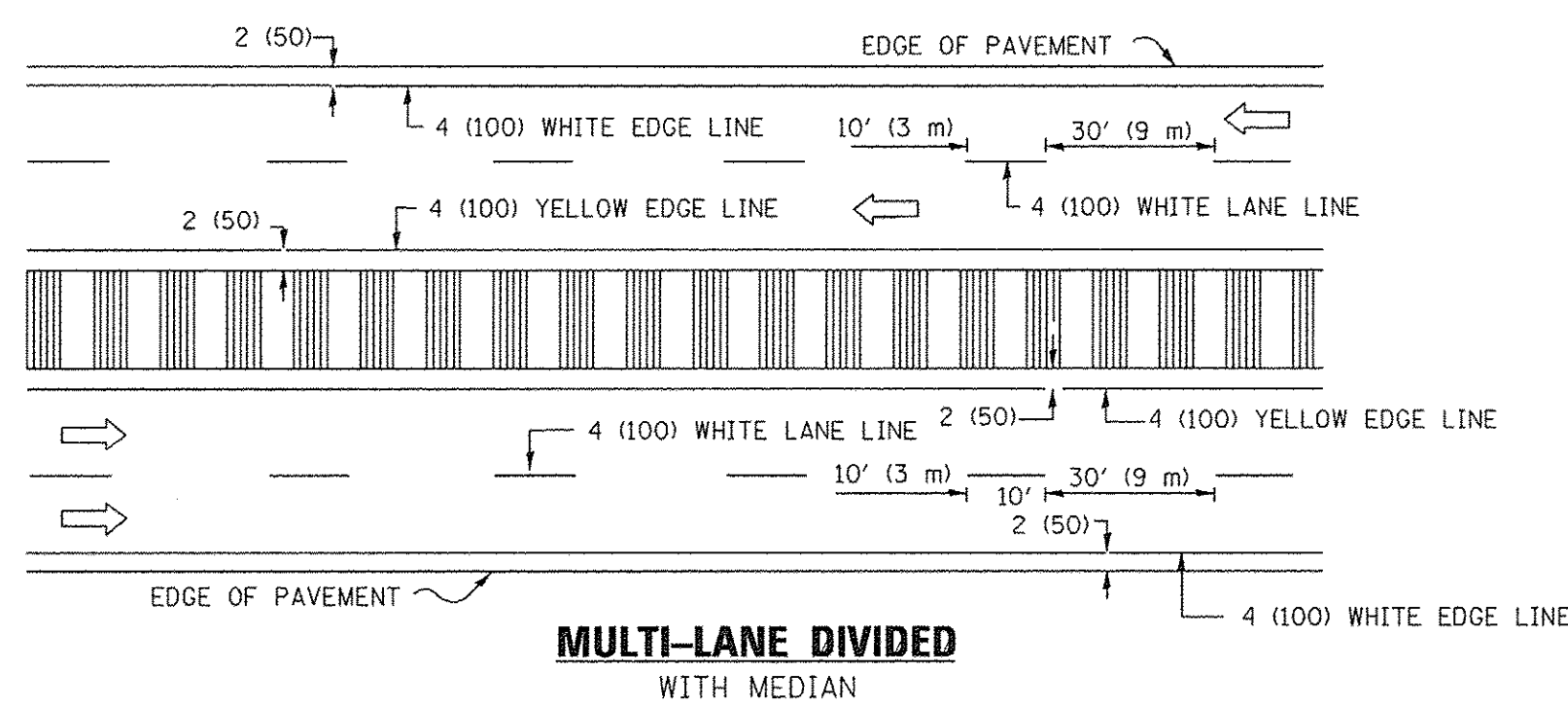
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PLOT DATE = 3/2/2011	DATE -	REVISED - C. JUCIUS 09-09-09	FED. ROAD DIST. NO. 1 ILLINOIS FED. AID PROJECT									



2-LANE ROADWAY

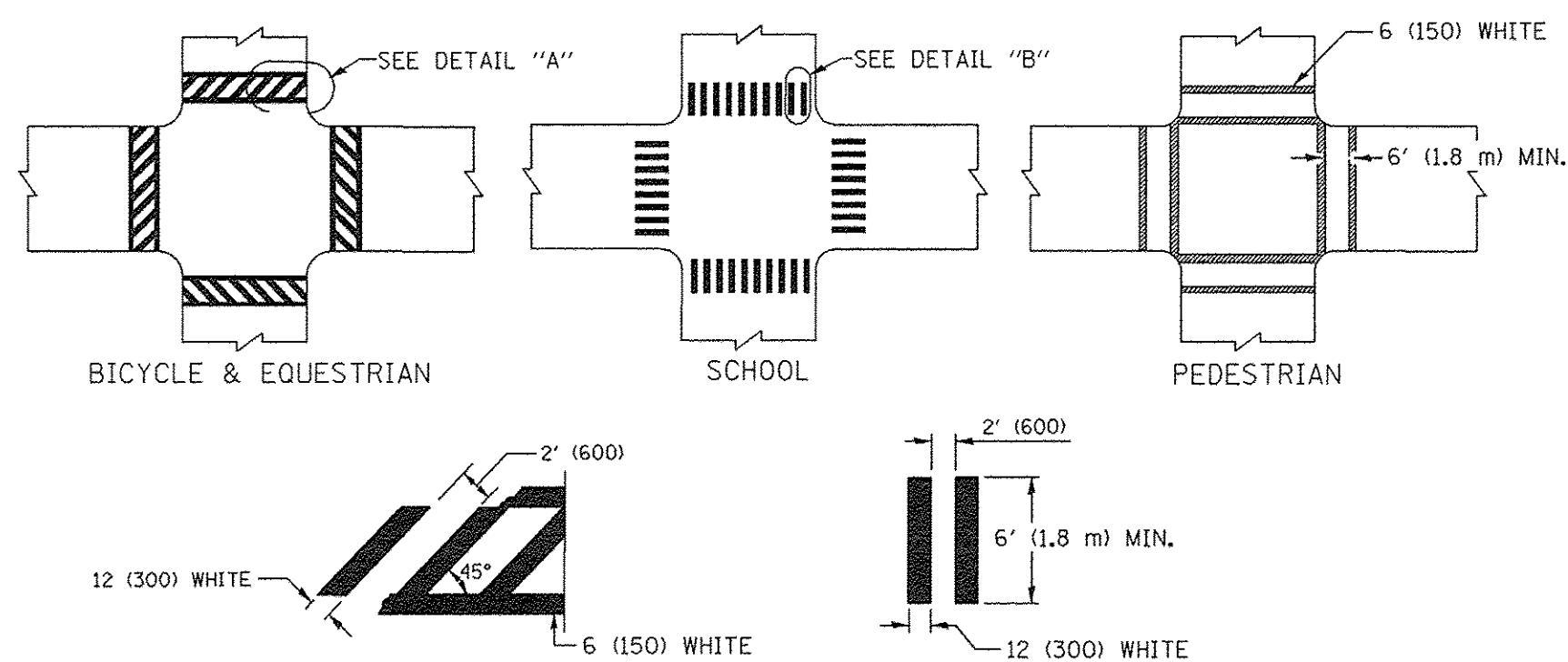


MULTI-LANE UNDIVIDED



MULTI-LANE DIVIDED WITH MEDIAN

TYPICAL LANE AND EDGE LINE MARKING

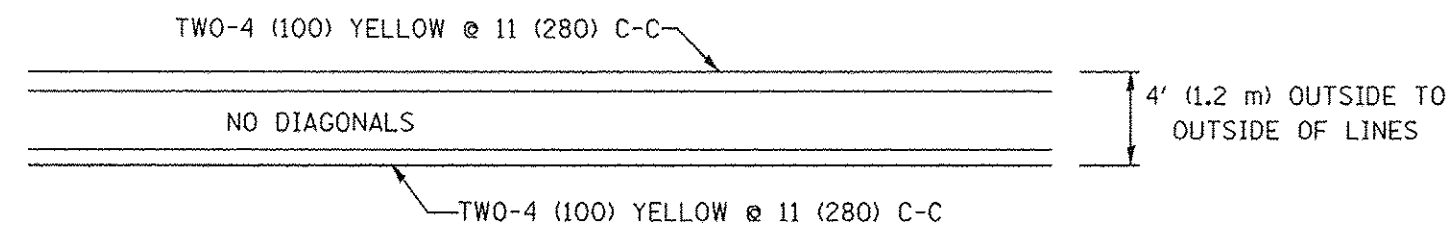


DETAIL "A"

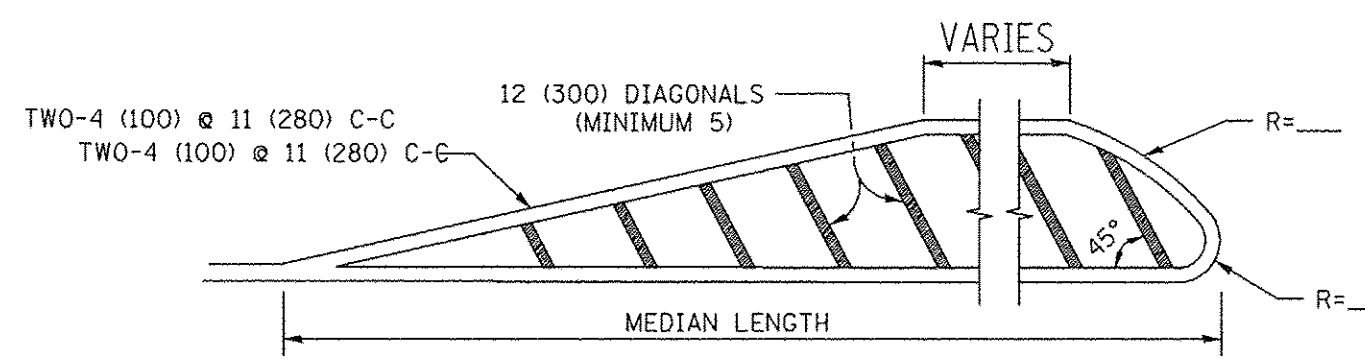
DETAIL "B"

TYPICAL CROSSWALK MARKING

* MARKINGS SHALL BE INSTALLED PARALLEL TO THE CENTERLINE OF THE ROAD WHICH IT CROSSES

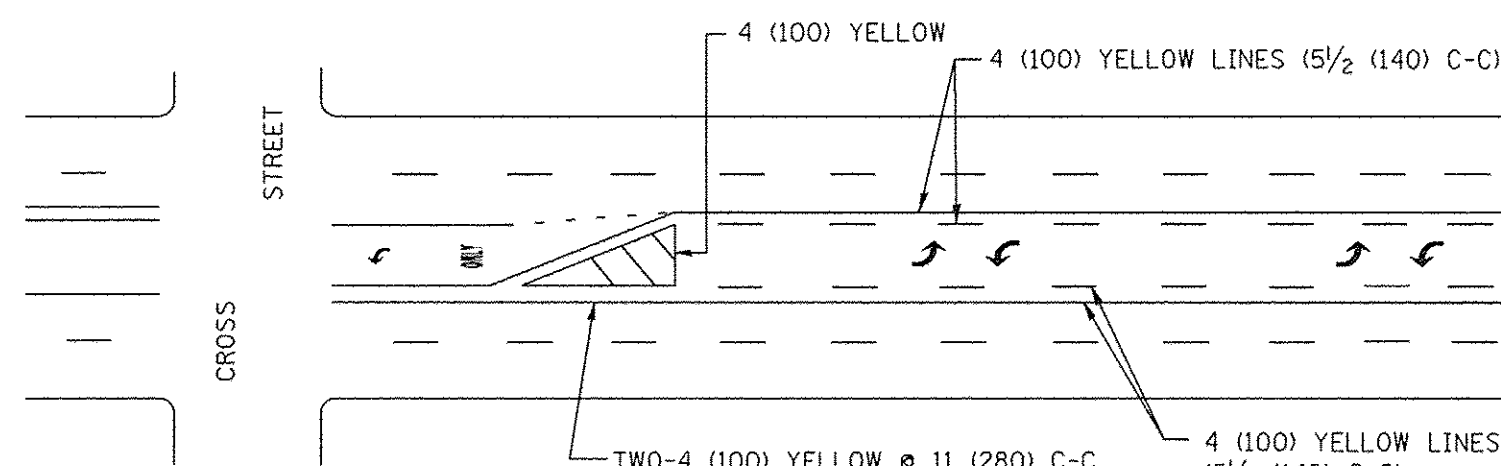


4' (1.2 m) WIDE MEDIANS ONLY



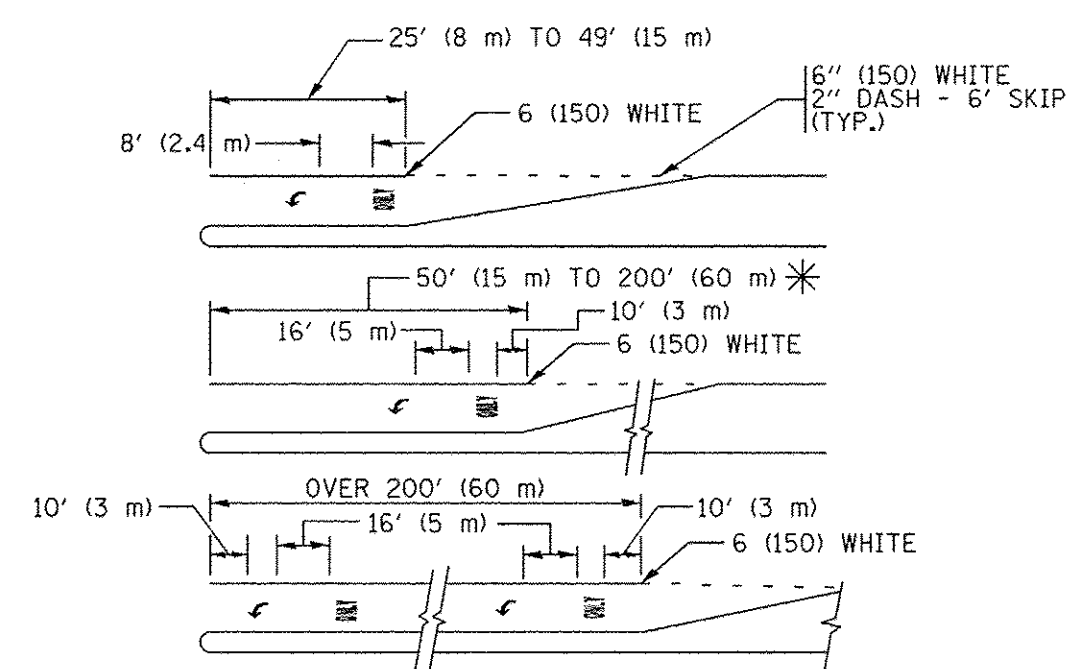
DIAGONAL LINE SPACING: 50' (15 m) C-C (LESS THAN 30MPH (50 km/h))
75' (25 m) C-C 30MPH (50 km/h) TO 45MPH (70 km/h)
150' (45 m) C-C (MORE THAN 45MPH (70 km/h))

MEDIANS OVER 4' (1.2 m) WIDE



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

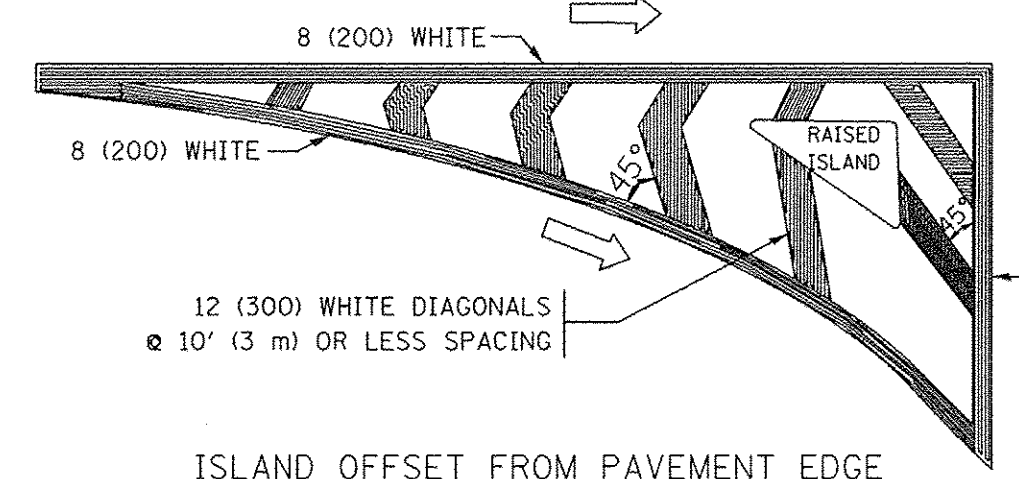
**MEDIAN WITH TWO-WAY LEFT TURN LANE
TYPICAL PAINTED MEDIAN MARKING**



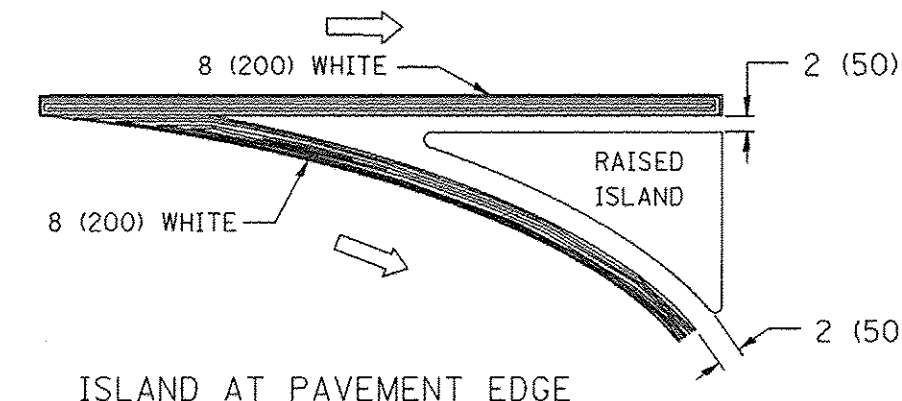
FULL SIZE LETTERS 8' (2.4 m) AND ARROWS SHALL BE USED.
AREA = 15.6 SQ. FT. (1.5 m²) ONLY AREA = 20.8 SQ. FT. (1.9 m²)
* TURN LANES IN EXCESS OF 400' (120 m) IN LENGTH MAY HAVE AN ADDITIONAL SET OF ARROW - "ONLY" INSTALLED MIDWAY BETWEEN THE OTHER TWO SETS OF ARROW - "ONLY".

TYPICAL LEFT (OR RIGHT) TURN LANE

TYPICAL TURN LANE MARKING

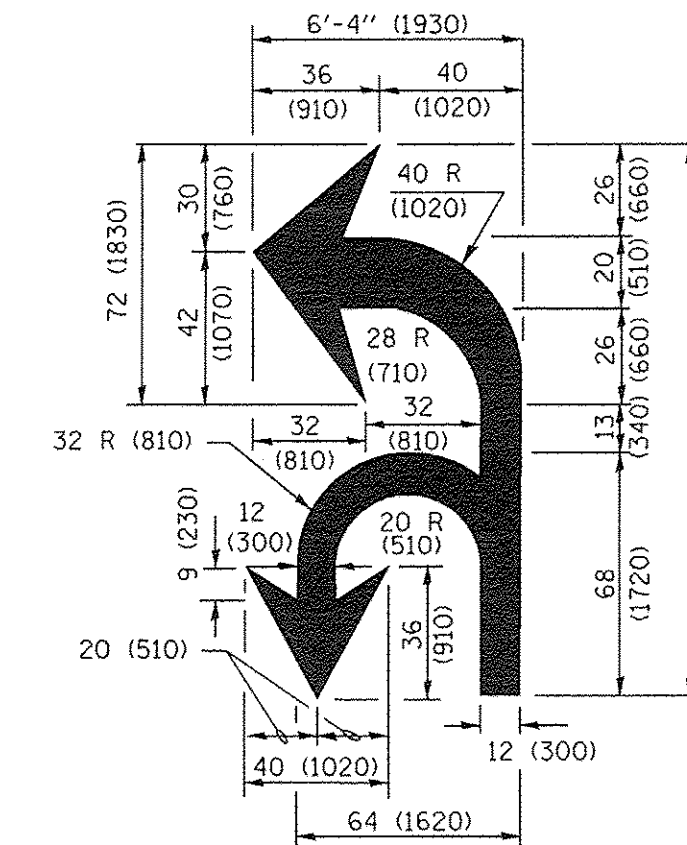


ISLAND OFFSET FROM PAVEMENT EDGE

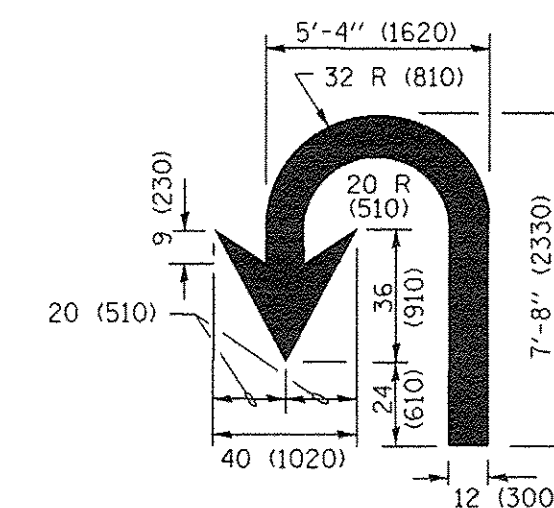


ISLAND AT PAVEMENT EDGE

TYPICAL ISLAND MARKING



COMBINATION LEFT AND U-TURN



U-TURN

LANE REDUCTION TRANSITION

* LANE REDUCTION ARROWS REQUIRED AT SPEEDS OF 45 MPH OR GREATER OR WHEN SPECIFIED IN PLANS.

D(FT)	SPEED LIMIT
345	30
425	35
500	40
580	45
665	50
750	55

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	4 (100) 5 (125) ON FREEWAYS	SKIP-DASH SKIP-DASH	WHITE WHITE	10' (3 m) LINE WITH 30' (9 m) SPACE
DOTTED LINES (EXTENSIONS OF CENTER, LANE OR TURN LANE MARKINGS)	SAME AS LINE BEING EXTENDED	SKIP-DASH	SAME AS LINE BEING EXTENDED	2' (600) LINE WITH 6' (1.8 m) SPACE
EDGE LINES	4 (100)	SOLID	YELLOW-LEFT WHITE-RIGHT	OUTLINE MEDIANS IN YELLOW
TURN LANE MARKINGS	6 (150) LINE; FULL SIZE LETTERS & SYMBOLS (8' (2.4m))	SOLID	WHITE	SEE TYPICAL TURN LANE MARKING DETAIL
TWO WAY LEFT TURN MARKING	2 @ 4 (100) EACH DIRECTION 8' (2.4m) LEFT ARROW	SKIP-DASH AND SOLID IN PAIRS	YELLOW WHITE	10' (3 m) LINE WITH 30' (9 m) SPACE FOR SKIP-DASH; 5 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 (30 MPH (50 km/h) TO 45MPH (70 km/h)) 30' (9 m) C-C (OVER 45MPH (70 km/h))
RAILROAD CROSSING	24 (600) TRANSVERSE LINES; "RR" 15 6' (1.8 m) LETTERS; 16 (400) LINE FOR "X"	SOLID	WHITE	SEE STATE STANDARD 780001 AREA OF: "R"=3.6 SQ. FT. (0.33 m ²) EACH "X"=54.0 SQ. FT. (5.0 m ²)
SHOULDER DIAGONALS (REQUIRED FOR SHOULDERS ≥ 8')	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))
U TURN ARROW	SEE DETAIL	SOLID	WHITE	16.3 SF
2 ARROW COMBINATION LEFT AND U TURN	SEE DETAIL	SOLID	WHITE	30.4 SF

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

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

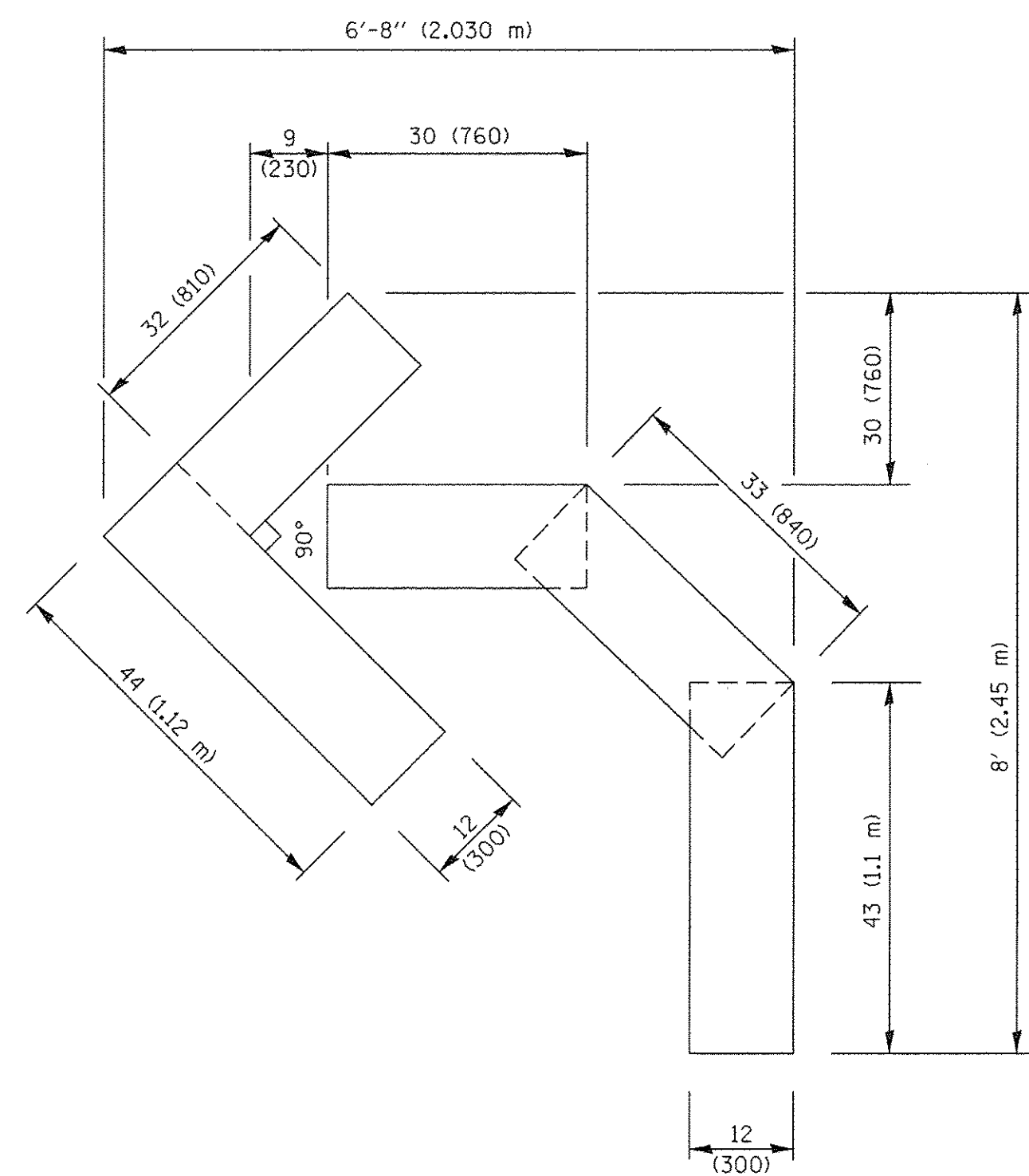
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	PLOT DATE = 4/13/2016	DATE - 03-19-90	REVISED - C. JUCIUS 04-12-16

**STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION**

**DISTRICT ONE
TYPICAL PAVEMENT MARKINGS**

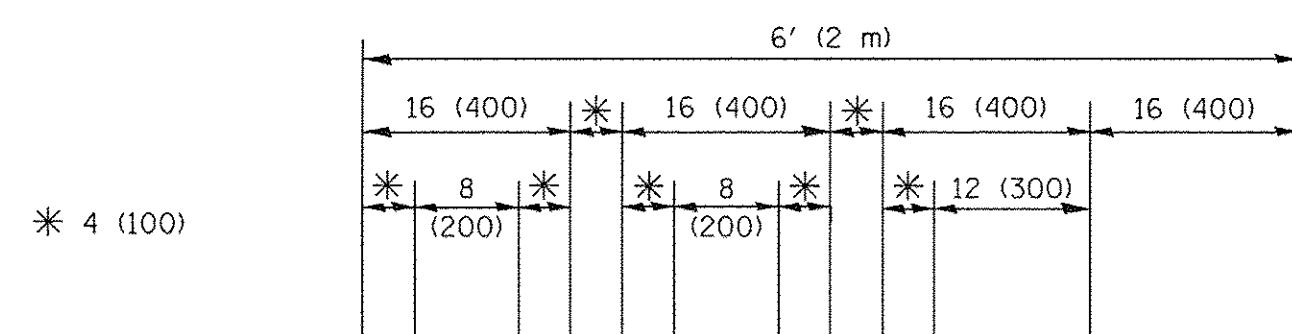
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F.A. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
	TC-13		108	95
ILLINOIS FED. AID PROJECT			CONTRACT NO. 61A03	



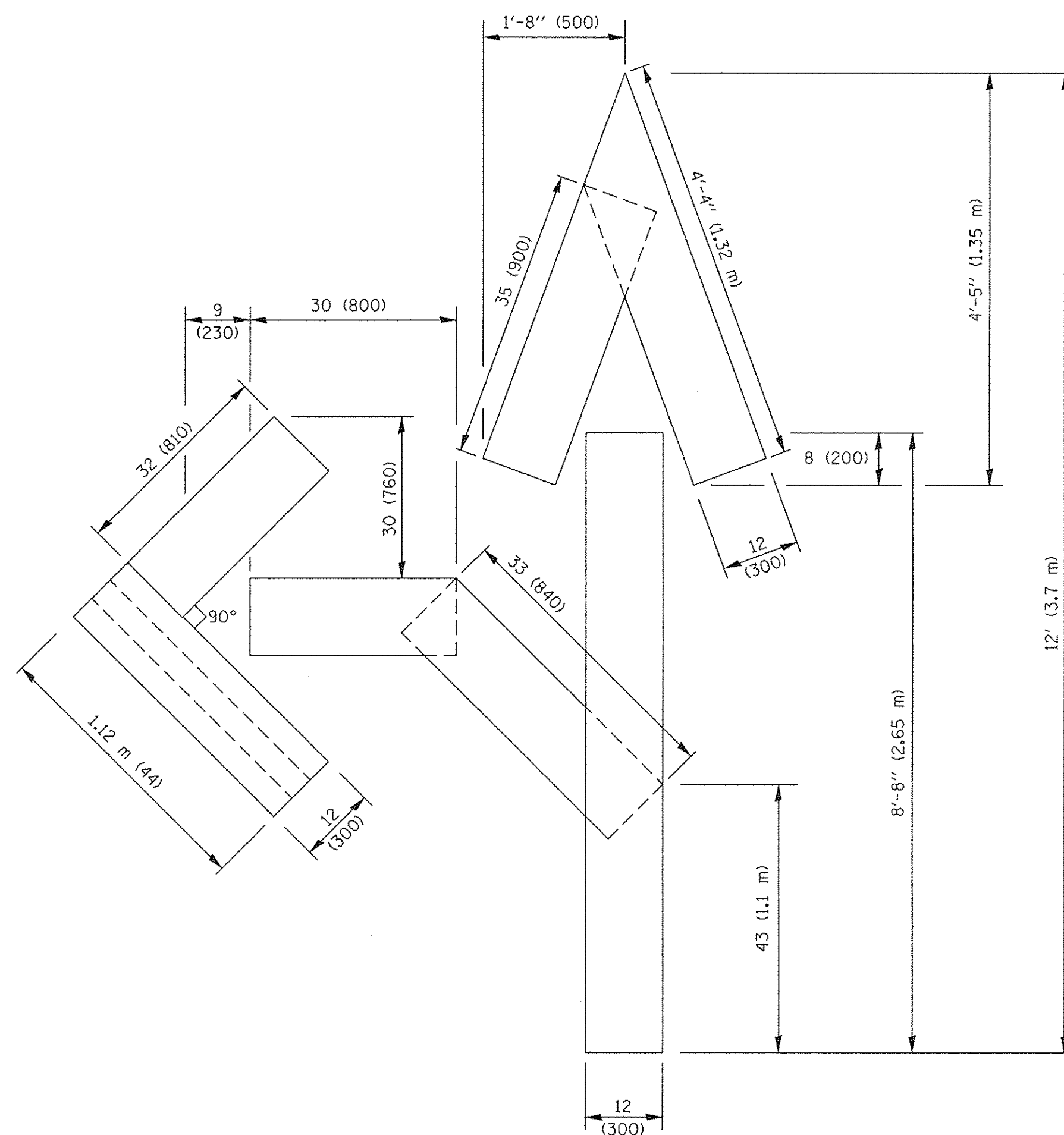
QUANTITY

4 (100) LINE = 45.5 ft. (13.9 m)
15.2 sq. ft. (1.41 sq. m)



QUANTITY

4 (100) LINE = 64.1 ft. (19.5 m)
21.4 sq. ft. (1.99 sq. m)

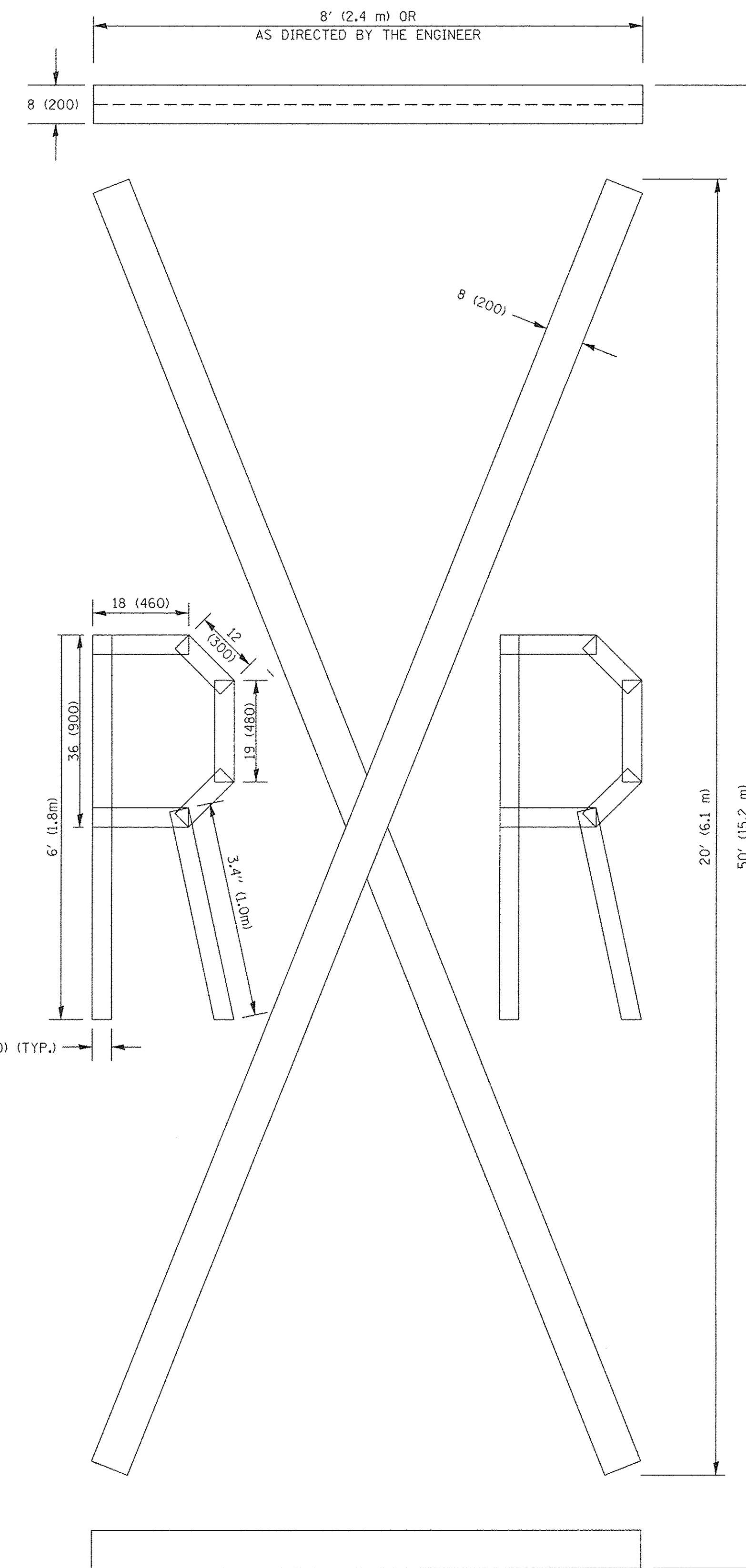


QUANTITY

4 (100) LINE = 82.5 ft. (25.1 m)
27.5 sq. ft. (2.53 sq. m)

NOTE:

ALL QUANTITIES OF PLACEMENT ARE REPRESENTED IN LINEAR FEET OF 4" LINES TO MATCH THE 4" TEMPORARY TAPE PAY ITEM AND REPRESENTS THE TOTAL QUANTITY OF 4" TAPE REQUIRED.



QUANTITY

4 (100) LINE = 225.9 ft. (68.9 m)
75.3 sq. ft. (6.99 sq. m)

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

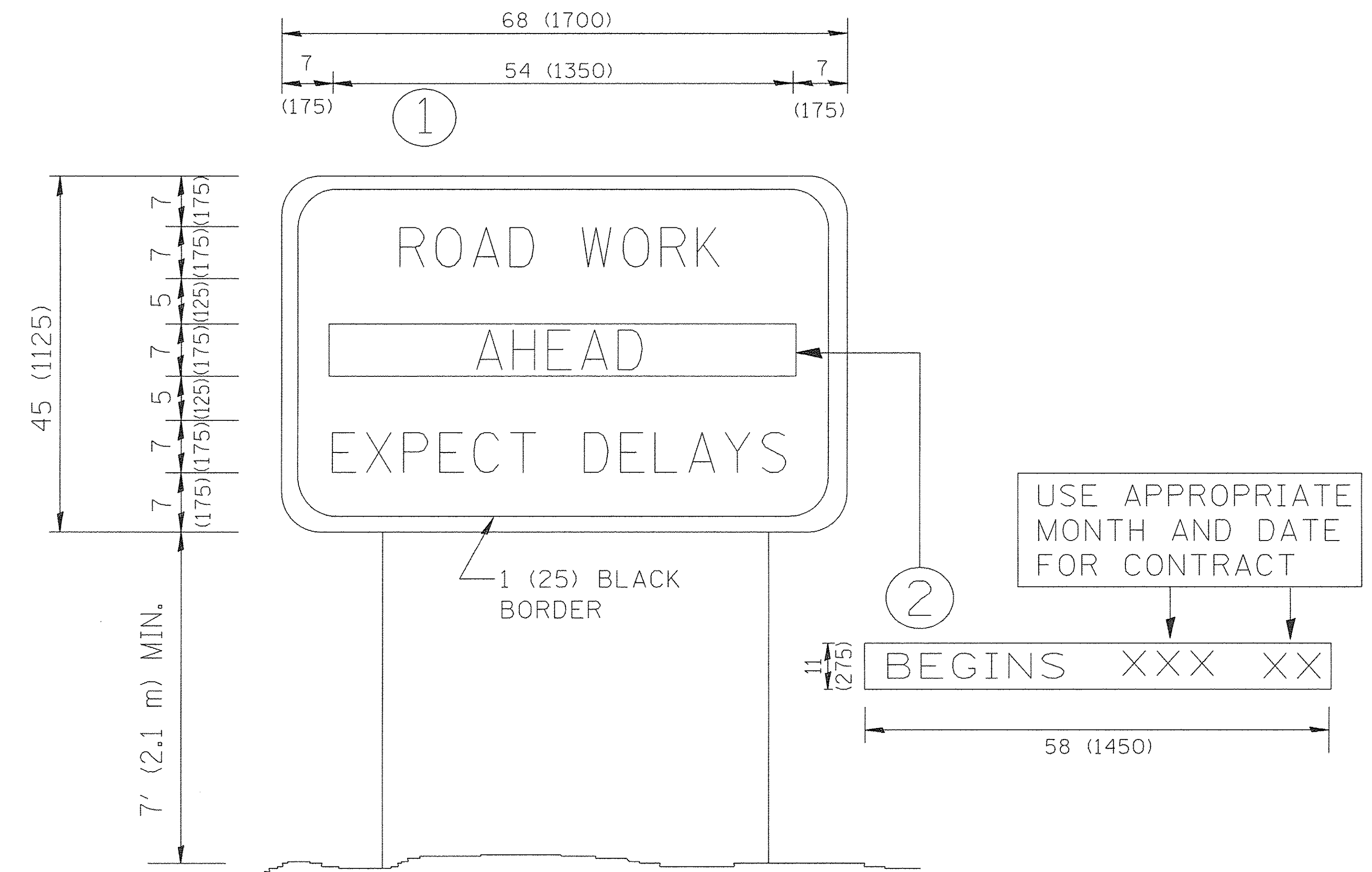
FILE NAME =	USER NAME = footemj	DESIGNED -	REVISED - T. RAMMACHER 03-02-98
		DRAWN -	REVISED - E. GOMEZ 08-28-00
	PLOT SCALE = 50.0000' / 1"	CHECKED -	REVISED - E. GOMEZ 08-28-00
	PLOT DATE = 9/15/2016	DATE - 09-18-94	REVISED - A. SCHUETZE 09-15-16

**STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION**

SHORT TERM PAVEMENT MARKING LETTERS AND SYMBOLS

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

F.A. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
			108	96
TC-16		CONTRACT NO. 61A03		
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.

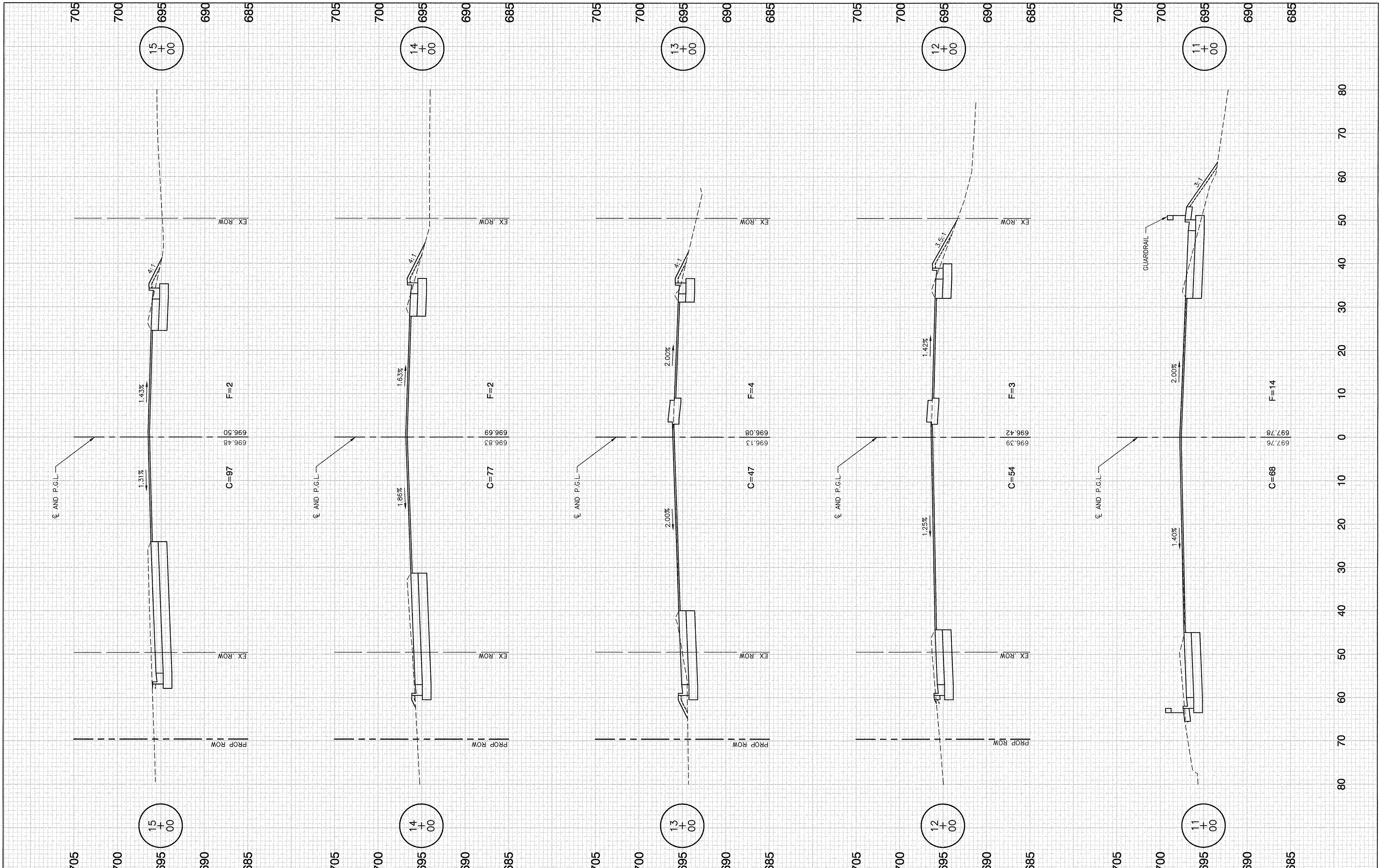
FILE NAME = W:\diststd\22x34\tc22.dgn	USER NAME = gegl:anobt	DESIGNED -	REVISED - R. MIRS 09-15-97
		DRAWN -	REVISED - R. MIRS 12-11-97
		CHECKED -	REVISED - T. RAMMACHER 02-02-99
		DATE -	REVISED - C. JUICIUS 01-31-07

**STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION**

**ARTERIAL ROAD
INFORMATION SIGN**

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

F.A. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
			108	97
TC-22			CONTRACT NO. 61A03	
FED. ROAD DIST. NO. 1 ILLINOIS FED. AID PROJECT				



FILE NAME = 04252-XSEC-01 - X01

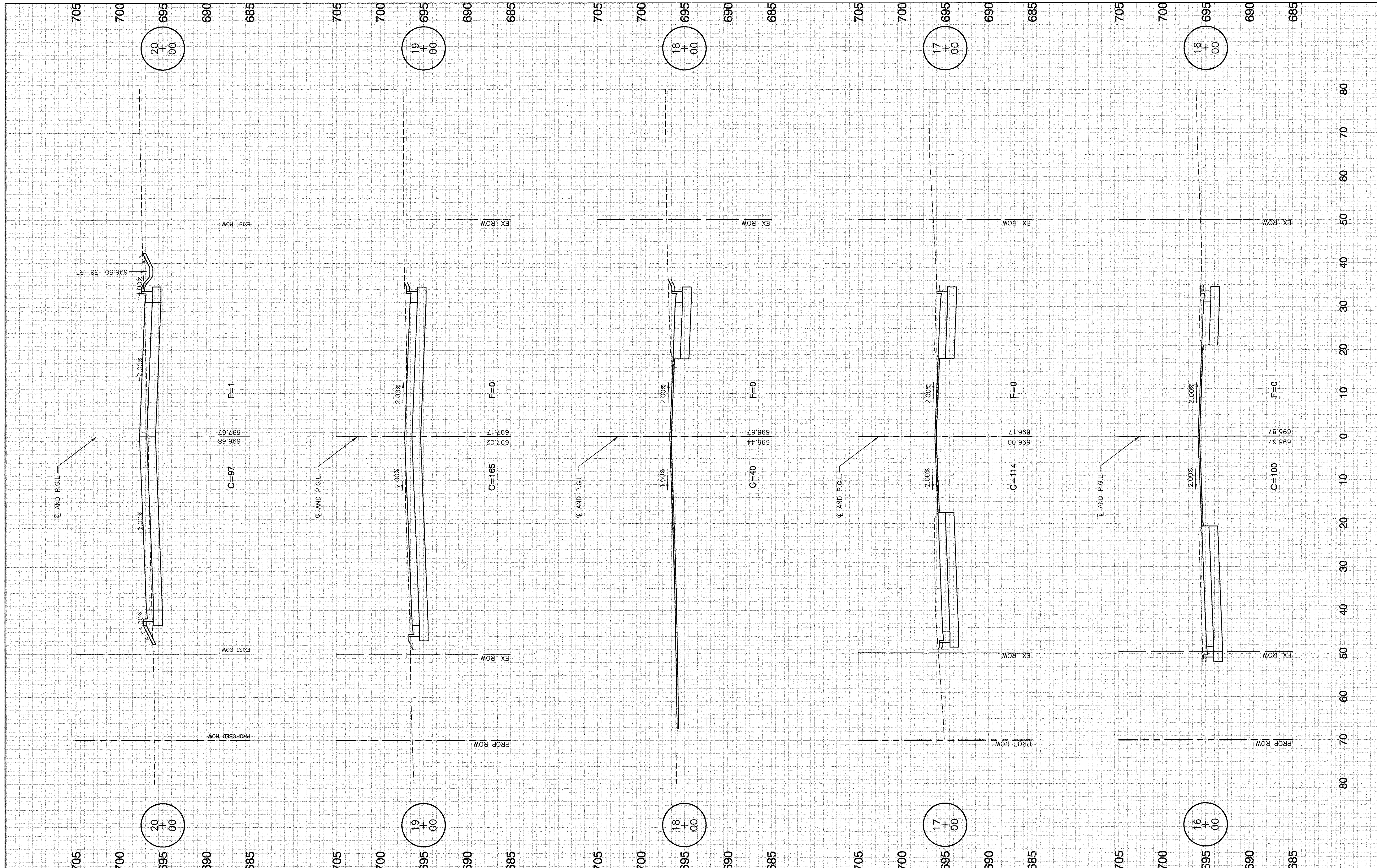
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PLOT SCALE = H: 1"=10' V: 1"=5'	CHECKED -- WPD	REVISED --
PLOT DATE = 12-05-16	DRAWN -- MD	REVISED --
	CHECKED -- ACAD	REVISED --

**STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION**

**191ST STREET IMPROVEMENTS
CROSS SECTIONS
191ST STREET**

SCALE: H 1"=10' V 1"=5' SHEET NO. 98 OF 108 SHEETS STA. 11+00 TO STA. 15+00

F.A.U. RTE. 3754	SECTION 01-00098-00-RS	COUNTY COOK	TOTAL SHEETS 108	SHEET NO. 98
FED. ROAD DIST. NO. 1		ILLINOIS		FED. AID PROJECT
CONTRACT NO. 61A03				



FILE NAME = 04282-XSEC-01 - X02

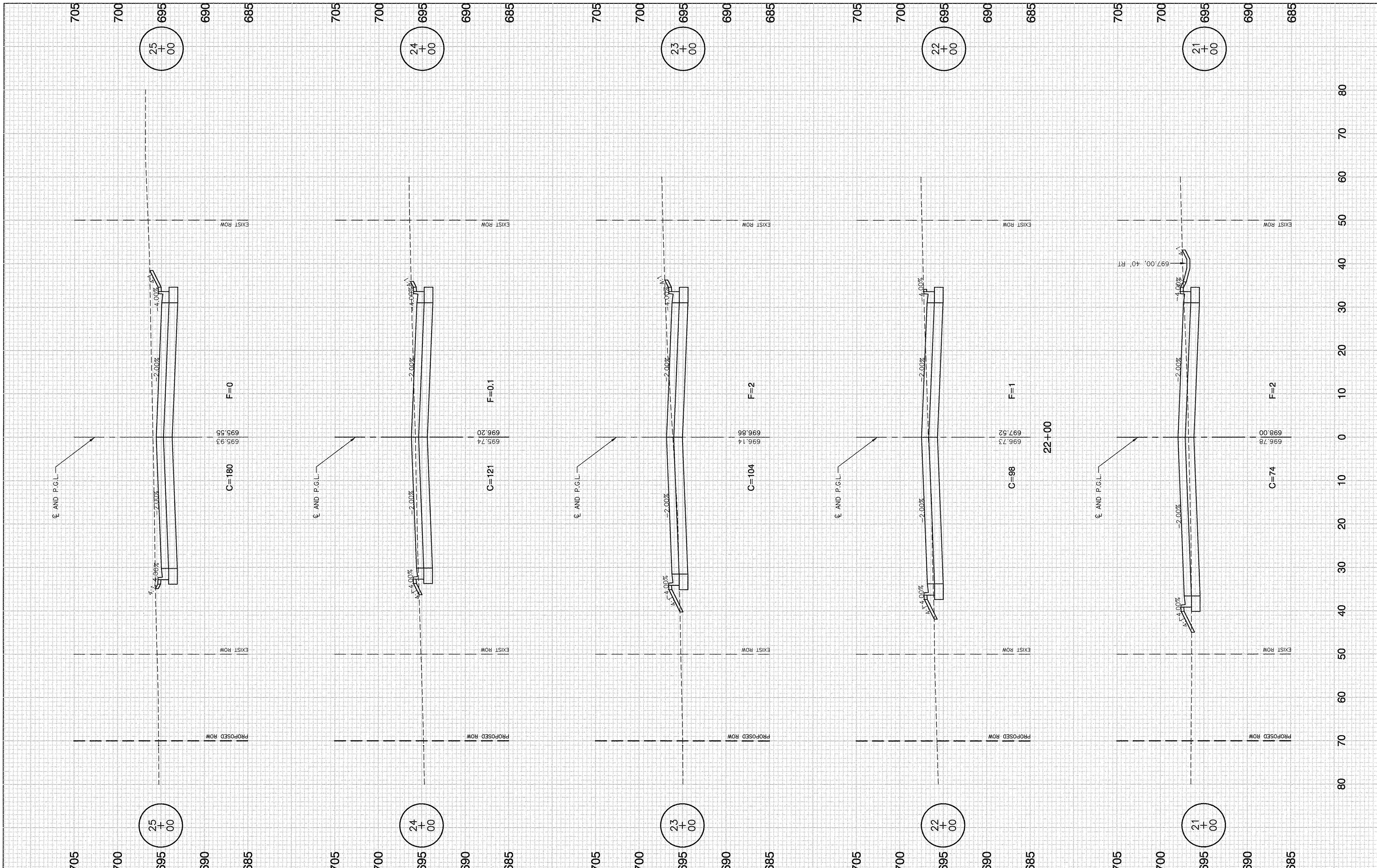
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	CHECKED -- WPD	REVISED --
PLOT SCALE = H: 1"=10' V: 1"=5'	DRAWN -- MD	REVISED --
PLOT DATE = 12-05-16	CHECKED -- ACAD	REVISED --

**STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION**

**191ST STREET IMPROVEMENTS
CROSS SECTIONS
191ST STREET**

SCALE: H 1"=10' V 1"=5' SHEET NO. 99 OF 108 SHEETS STA. 16+00 TO STA. 20+00

F.A.U. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
3754	01-00098-00-RS	COOK	108	99
CONTRACT NO. 61A03				
FED. ROAD DIST. NO. 1	ILLINOIS	FED. AID PROJECT		



FILE NAME = 04252-XSEC-01 - X03
 USER NAME =
 PLOT SCALE = H: 1"=10' V: 1"=5'
 PLOT DATE = 12-05-16

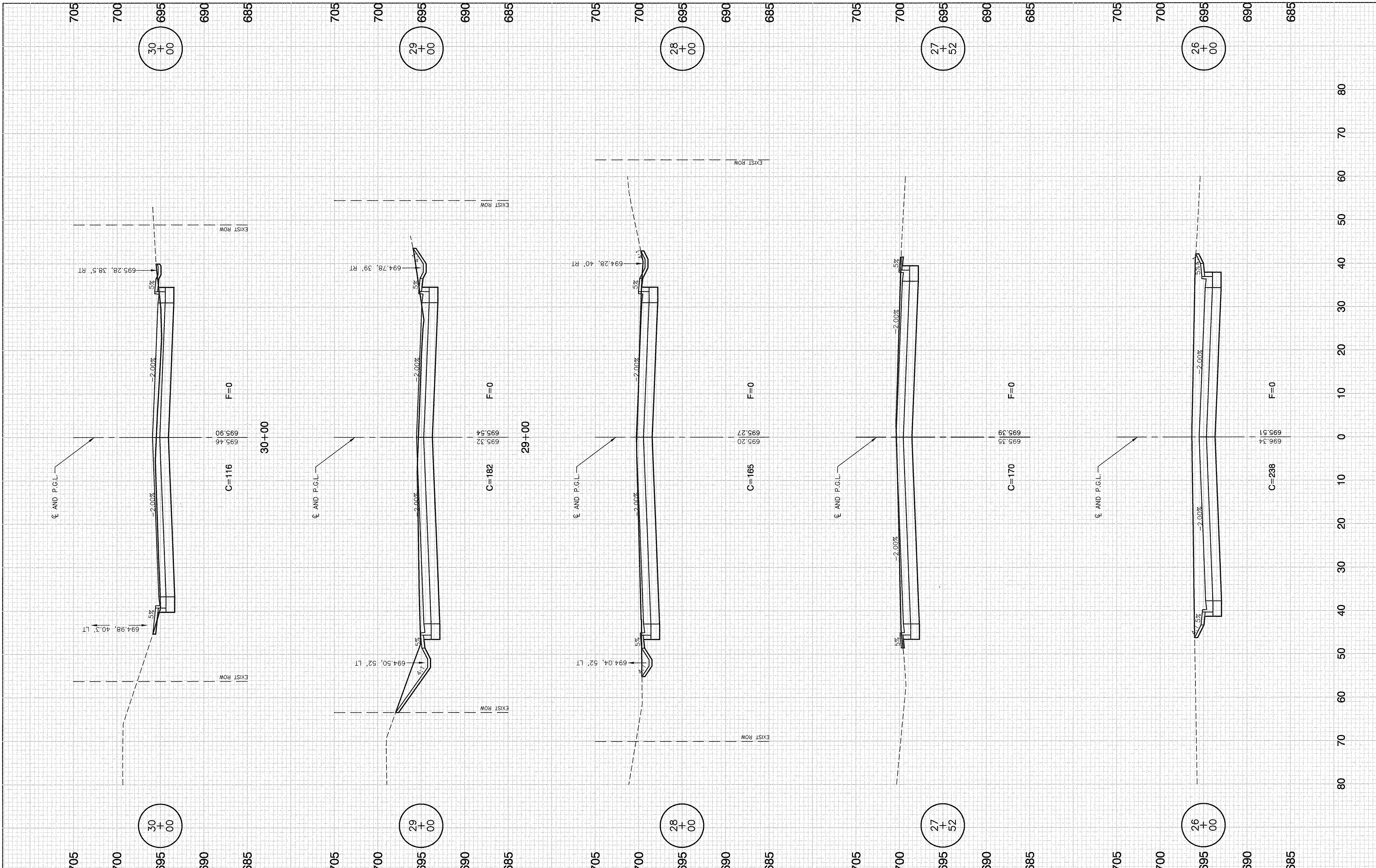
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CHECKED - WPD	REVISED -
DRAWN - MD	REVISED -
CHECKED - ACAD	REVISED -

**STATE OF ILLINOIS
 DEPARTMENT OF TRANSPORTATION**

**191ST STREET IMPROVEMENTS
 CROSS SECTIONS
 191ST STREET**

SCALE: H 1"=10' V 1"=5' SHEET NO. 100 OF 108 SHEETS STA. 21+00 TO STA. 25+00

F.A.U. RTE. 3754	SECTION 01-00098-00-RS	COUNTY COOK	TOTAL SHEETS 108	SHEET NO. 100
FED. ROAD DIST. NO. 1 ILLINOIS			FED. AID PROJECT	



FILE NAME = 04252-XSEC-01 - X04

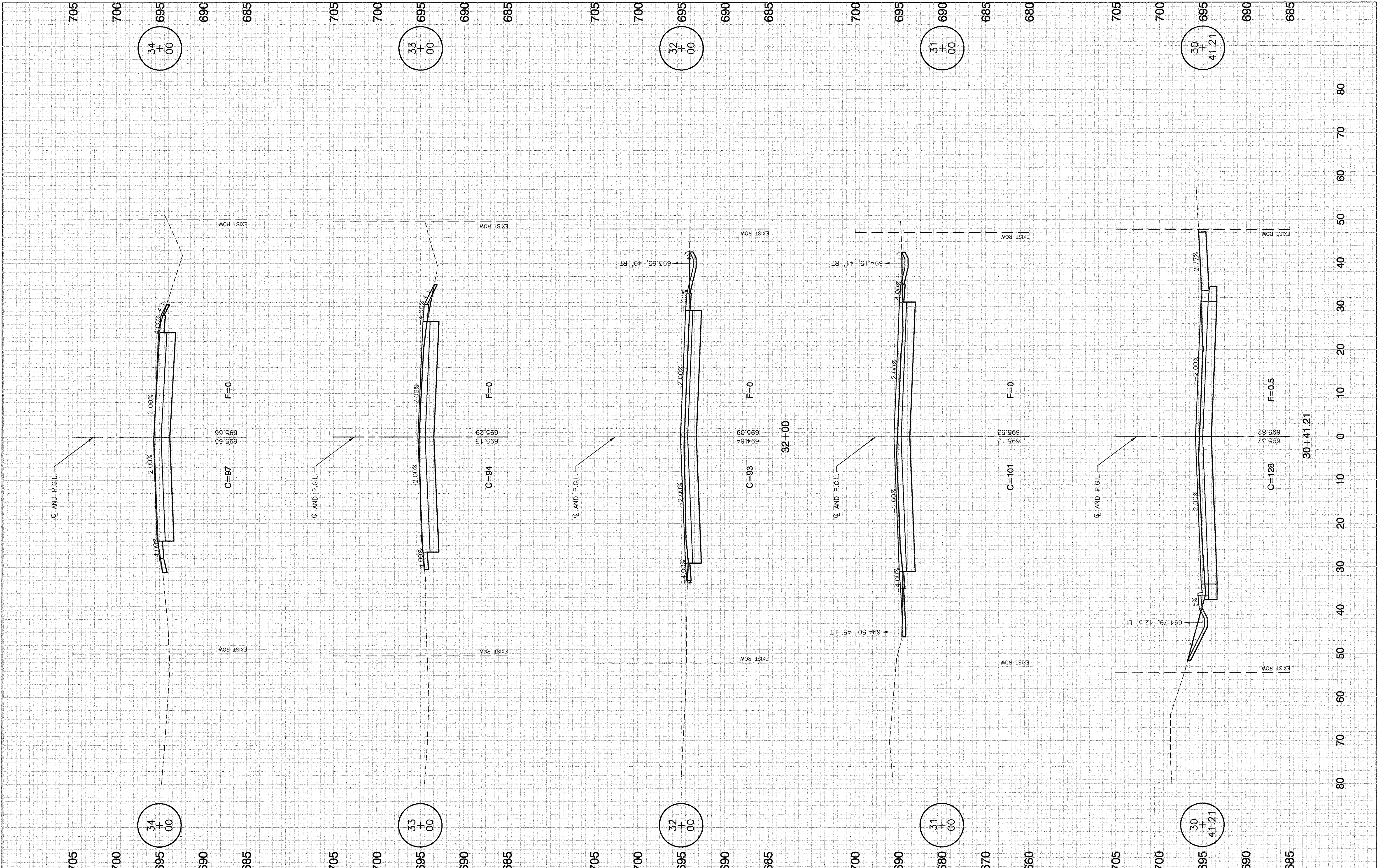
USER NAME =	DESIGNED - WPD	REVISED -
PLOT SCALE = H: 1"=10' V: 1"=5'	CHECKED - WPD	REVISED -
PLOT DATE = 12-05-16	DRAWN - MD	REVISED -
	CHECKED - ACAD	REVISED -

**STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION**

**191ST STREET IMPROVEMENTS
CROSS SECTIONS
191ST STREET**

SCALE: H 1"=10' V 1"=5' SHEET NO. 101 OF 108 SHEETS STA. 26+00 TO STA. 30+00

F.A.U. RTE. 3754	SECTION 01-00098-00-RS	COUNTY COOK	TOTAL SHEETS 108	SHEET NO. 101
FED. ROAD DIST. NO. 1		ILLINOIS		FED. AID PROJECT



FILE NAME = 04252-XSEC-01 - X05

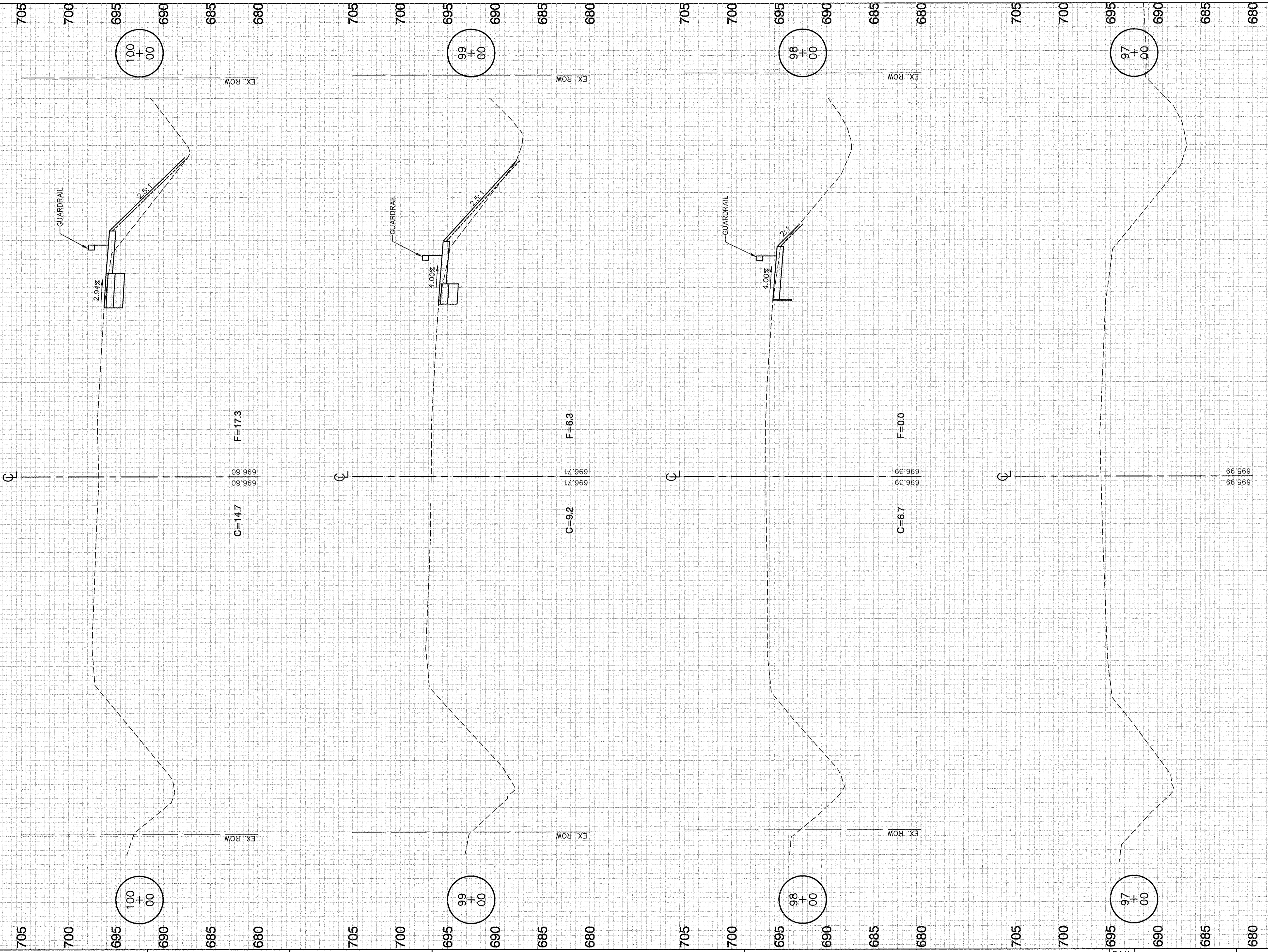
USER NAME =	DESIGNED -- WPD	REVISED --
CHECKED -- WPD	REVISOR --	
PLOT SCALE = H: 1"=10' V: 1"=5'	DRAWN -- MD	REVISED --
PLOT DATE = 12-05-16	CHECKED -- ACAD	REVISED --

**STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION**

**191ST STREET IMPROVEMENTS
CROSS SECTIONS
191ST STREET**

F.A.U. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
3754	01-00098-00-RS	COOK	108	102
CONTRACT NO. 61A03				
FED. ROAD DIST. NO. 1	ILLINOIS	FED. AID PROJECT		

SCALE: H 1"=10' V 1"=5' SHEET NO. 102 OF 108 SHEETS STA. 30+41.21 TO STA. 34+00



FILE NAME = 04252-XSEC-01 - X15A

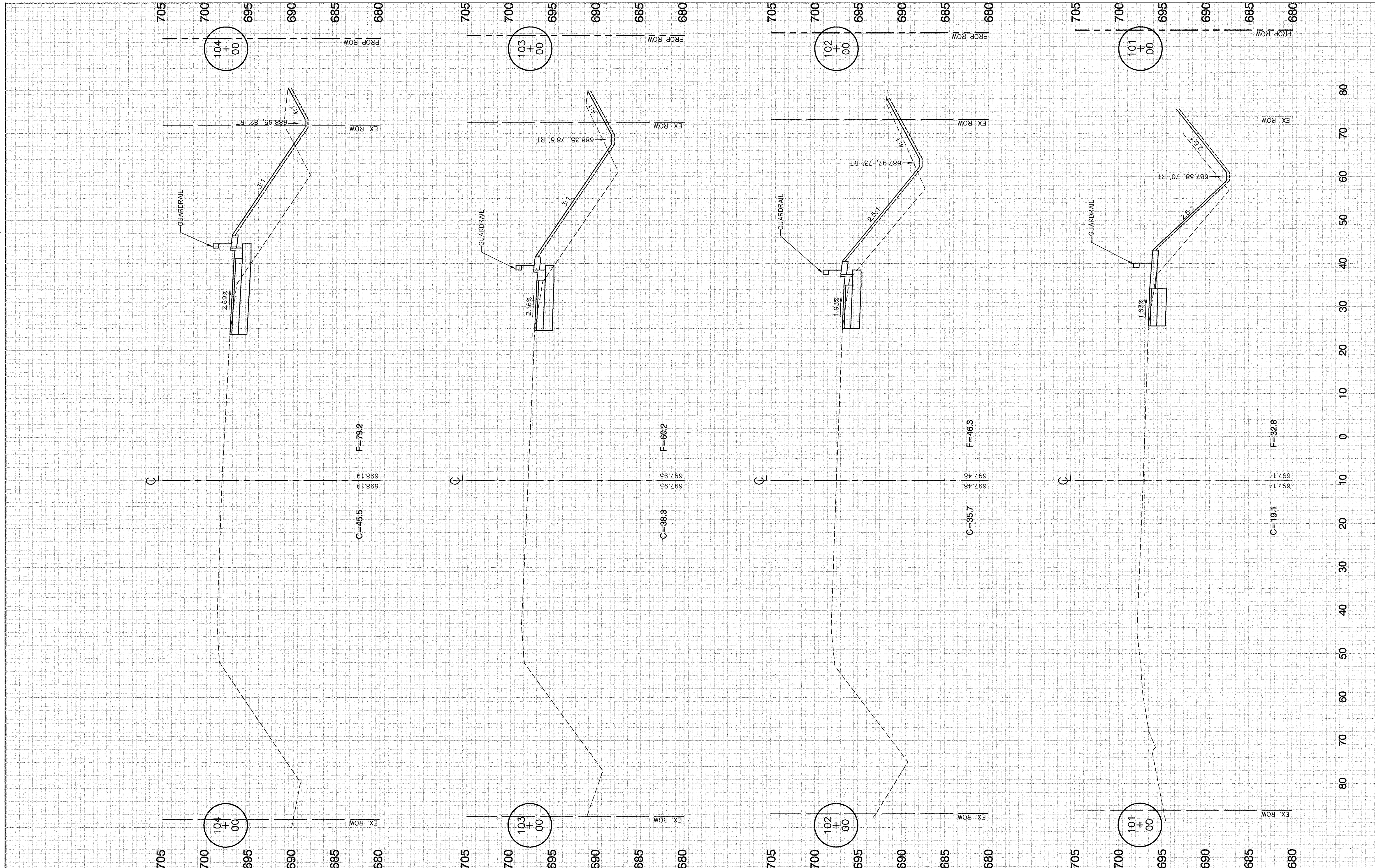
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	CHECKED -- WPD	REVISED --
PLOT SCALE = H: 1"=10 V: 1"=5'	DRAWN -- MD	REVISED --
PLOT DATE = 12-05-16	CHECKED -- ACAD	REVISED --

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

191ST STREET IMPROVEMENTS
CROSS SECTIONS
HARLEM AVENUE

F.A.U. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
3754	01-00098-00-RS	COOK	108	103
CONTRACT NO. 61A03				
FED. ROAD DIST. NO. 1 ILLINOIS FED. AID PROJECT				

SCALE: H 1"=10' V 1"=5' SHEET NO. 103 OF 108 SHEETS STA. 101+00 TO STA. 104+00



FILE NAME = 04252-XSEC-01 - X15
 USER NAME =
 PLOT SCALE = H: 1"=10' V: 1"=5'
 PLOT DATE = 12-05-16

DESIGNED	WPD	REVISED	--
CHECKED	WPD	REVISED	--
DRAWN	MD	REVISED	--
CHECKED	ACAD	REVISED	--

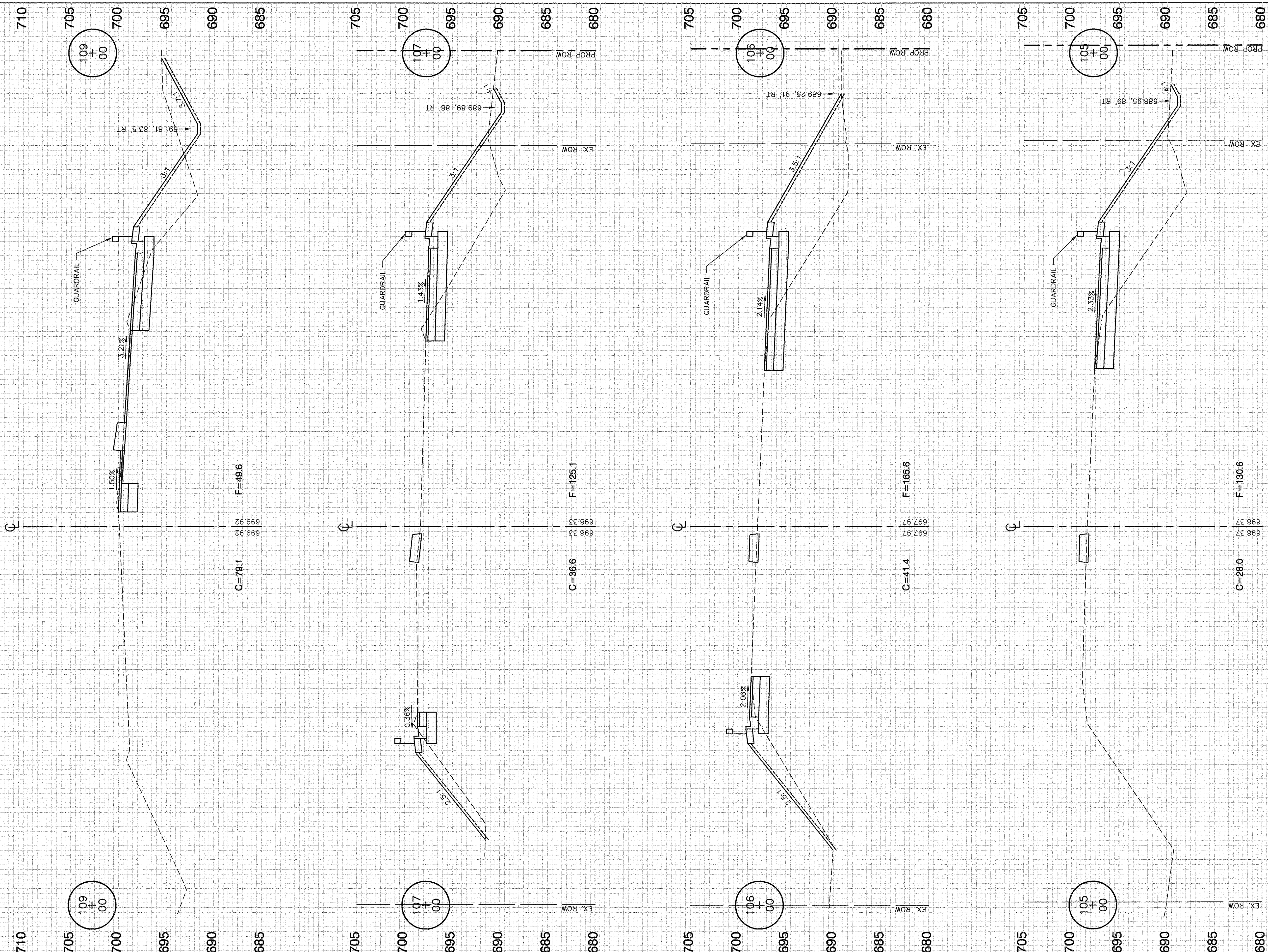
**STATE OF ILLINOIS
 DEPARTMENT OF TRANSPORTATION**

**191ST STREET IMPROVEMENTS
 CROSS SECTIONS
 HARLEM AVENUE**

SCALE: H 1"=10' V 1"=5' SHEET NO. 104 OF 108 SHEETS STA. 101+00 TO STA. 104+00

F.A.U. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
3754	01-00098-00-RS	COOK	108	104
FED. ROAD DIST. NO. 1 ILLINOIS FED. AID PROJECT			CONTRACT NO. 61A03	

NOTE:
EXISTING ROW IS 190' OR WIDER
FROM STATION 109+00 TO
STATION 118+58.78



80
70
60
50
40
30
20
10
0
10
20
30
40
50
60
70
80

FILE NAME = 04252-XSEC-01 -X16

USER NAME =	DESIGNED -- WPD	REVISED --
CHECKED -- WPD	REVISIONS	
PLOT SCALE = H: 1"=10' V: 1"=5'	DRAWN -- MD	REVISED --
PLOT DATE = 12-05-16	CHECKED -- ACAD	REVISED --

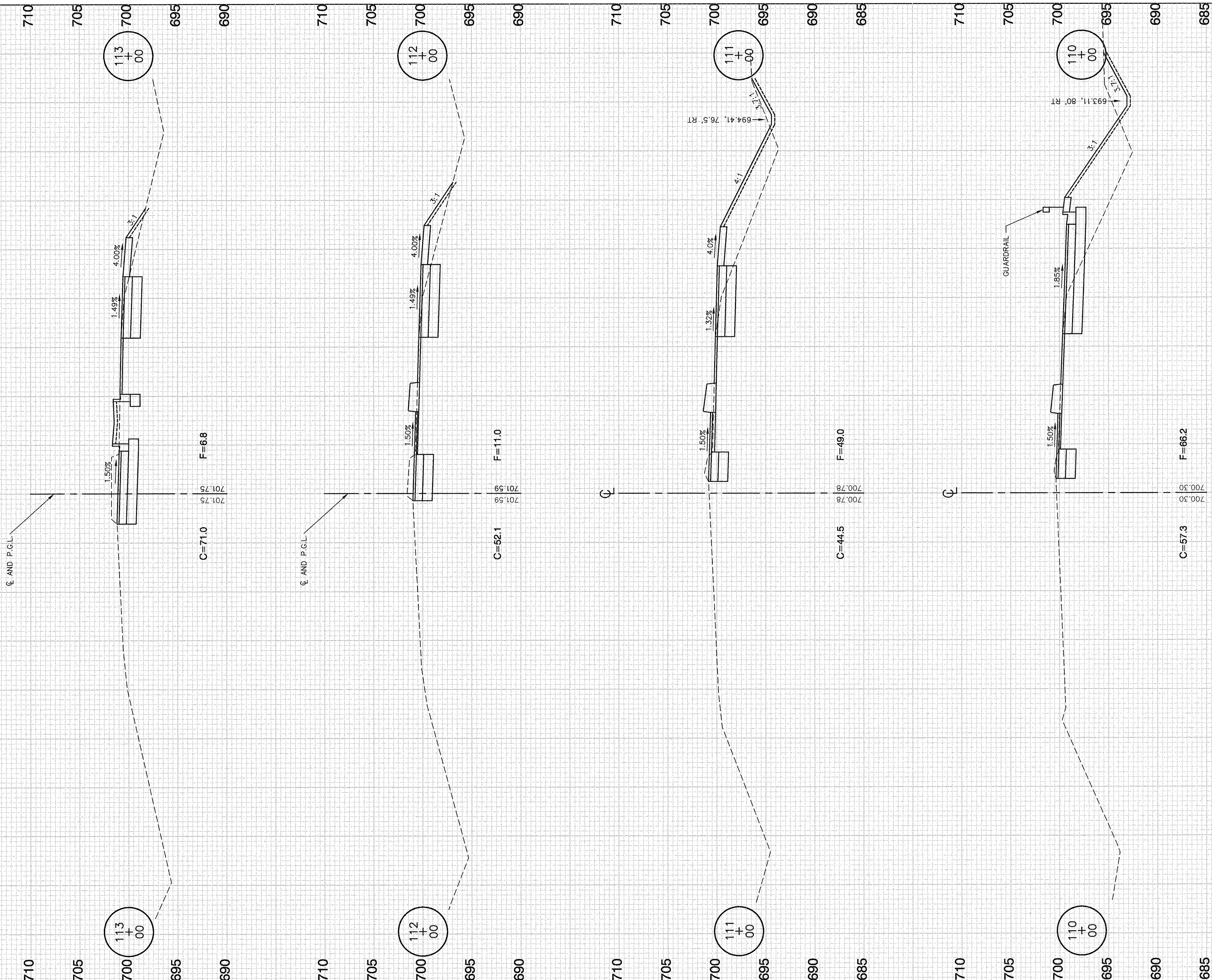
STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

191ST STREET IMPROVEMENTS
CROSS SECTIONS
HARLEM AVENUE

SCALE: H 1"=10' V 1"=5' SHEET NO. 105 OF 108 SHEETS STA. 105+00 TO STA. 109+00

F.A.U. RTE	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
3754	01-00098-00-RS	COOK	108	105
FED. ROAD DIST. NO. 1 ILLINOIS			CONTRACT NO. 61A03	
FED. AID PROJECT				

NOTE:
EXISTING ROW IS 190' OR WIDER
FROM STATION 109+00 TO
STATION 118+38.78.



FILE NAME = 04252-XSEC-01 -X17

USER NAME =
PLOT SCALE = H: 1"=10' V: 1"=5'
PLOT DATE = 12-05-16

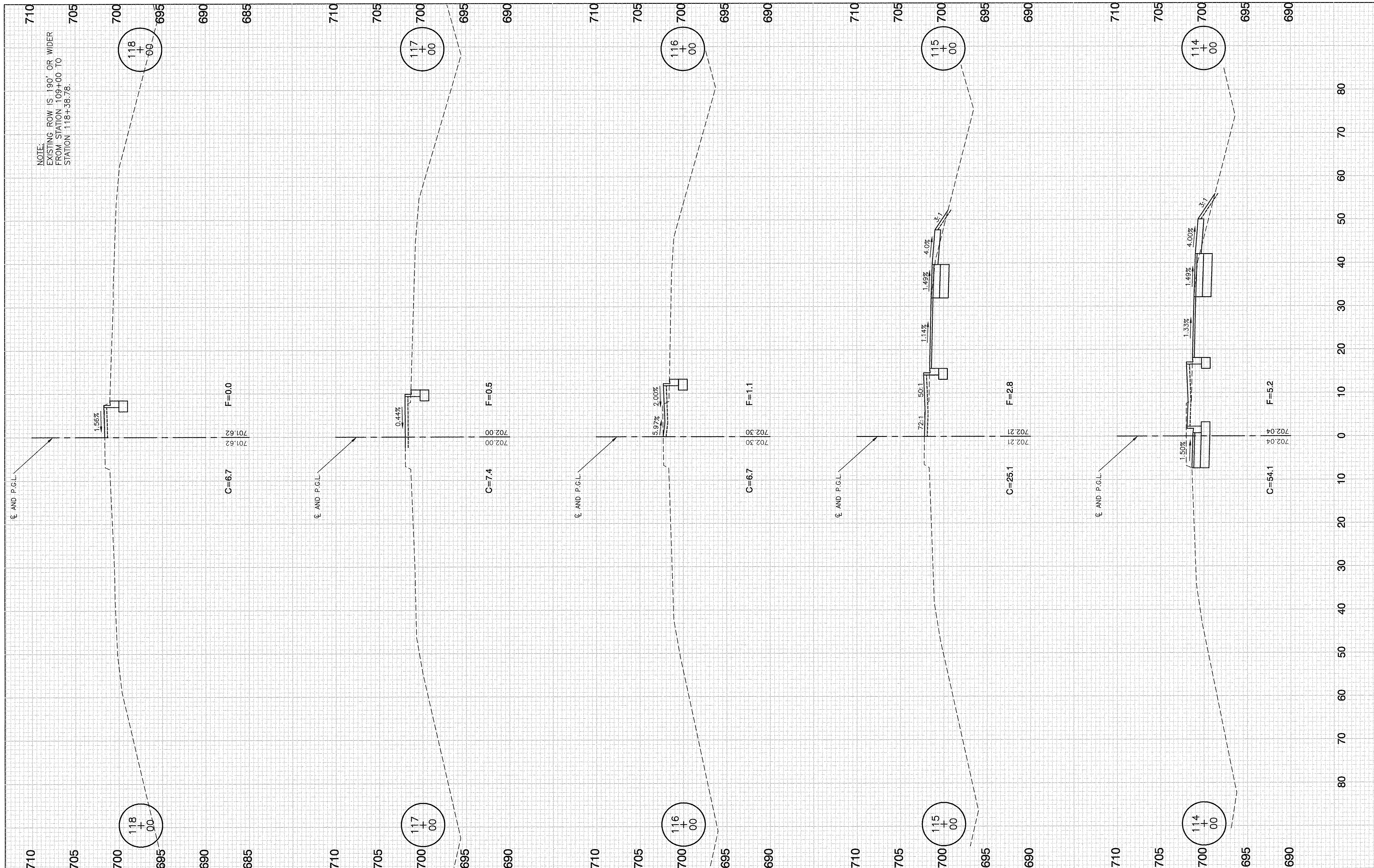
DESIGNED -- WPD
CHECKED -- WPD
DRAWN -- MD
CHECKED -- ACAD

REVISED --
REVISED --
REVISED --
REVISED --

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

191ST STREET IMPROVEMENTS
CROSS SECTIONS
HARLEM AVENUE
SCALE: H 1"=10' V 1"=5' SHEET NO. 106 OF 108 SHEETS STA. 110+00 TO STA. 113+00

F.A.U. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
3754	01-00098-00-RS	COOK	108	106
CONTRACT NO. 61A03				
FED. ROAD DIST. NO. 1 ILLINOIS FED. AID PROJECT				



NOTE:
EXISTING ROW IS 190' OR WIDER
FROM STATION 109+00 TO
STATION 118+38.78.

FILE NAME = 04252-XSEC-01 - X18

USER NAME =	DESIGNED - WPD	REVISED -
	CHECKED - WPD	REVISED -
PLOT SCALE = H: 1"=10' V: 1"=5'	DRAWN - MD	REVISED -
PLOT DATE = 12-05-16	CHECKED - ACAD	REVISED -

**STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION**

**191ST STREET IMPROVEMENTS
CROSS SECTIONS
HARLEM AVENUE**

F.A.U. RTE. 3754	SECTION 01-00098-00-RS	COUNTY COOK	TOTAL SHEETS 108	SHEET NO. 107
FED. ROAD DIST. NO. 1		ILLINOIS		FED. AID PROJECT

SCALE: H 1"=10' V 1"=5' SHEET NO. 107 OF 108 SHEETS STA. 114+00 TO STA. 118+00

CONTRACT NO. 61A03

NOTE:
EXISTING ROW IS 190' OR WIDER
FROM STATION 109+00 TO
STATION 118+38.78.

118
38.78

118
38.78

9

701.49

701.49

FILE NAME = 04252-XSEC-01 - X19

USER NAME =

DESIGNED -- WPD

REVISED --

PLOT SCALE = H: 1"=10' V: 1"=5'

DRAWN -- MD

REVISED --

PLOT DATE = 12-05-16

CHECKED -- ACAD

REVISED --

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

191ST STREET IMPROVEMENTS
CROSS SECTIONS
HARLEM AVENUE

SCALE: H 1"=10' V 1"=5' | SHEET NO. 108 OF 108 SHEETS | STA. 118+51.26 TO STA. 118+51.26

F.A.U.
RTE.
3754

SECTION
01-00098-00-RS

COUNTY
COOK

TOTAL SHEETS
108

SHEET NO.
108

CONTRACT NO. 61A03

FED. ROAD DIST. NO. 1 | ILLINOIS | FED. AID PROJECT

710

705

700

695

690

80
70
60
50
40
30
20
10
0
10
20
30
40
50
60
70
80