

03-09-12 LETTING ITEM 012

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

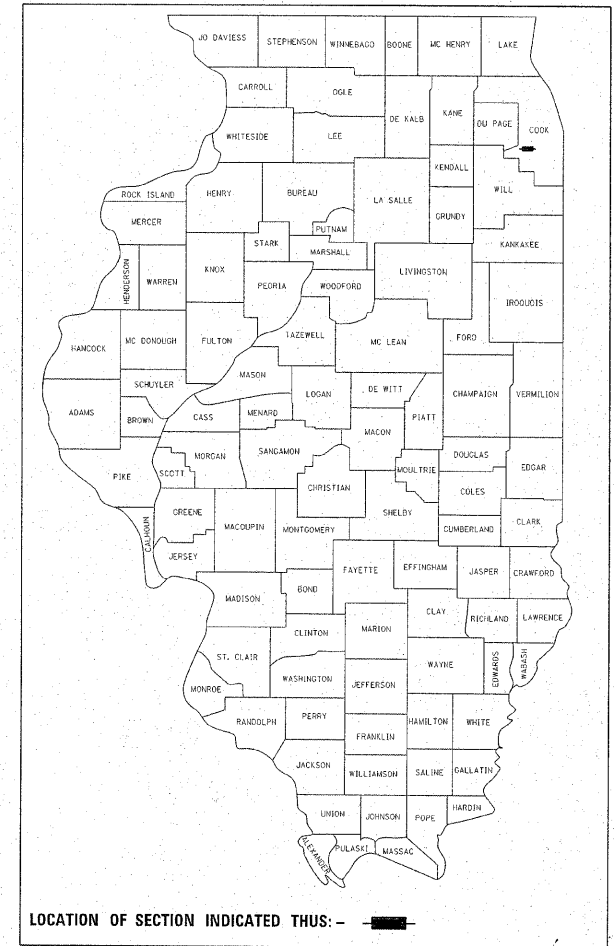
DIVISION OF HIGHWAYS

**PROPOSED
HIGHWAY PLANS**

F.A.U. 1566 (95th ST.)
AT 104th AVE./FLAVIN RD.
INTERSECTION RECONSTRUCTION AND
TRAFFIC SIGNAL INSTALLATION
SECTION: 29 R-N-1
PROJECT: CMM-1566(004)
COOK COUNTY
C-91-026-02

F.A.U. RTE. 1566	SECTION 29 R-N-1	COUNTY COOK	TOTAL SHEETS 120	SHEET NO. 1
		ILLINOIS	CONTRACT NO. 62377	

D-91-026-02



LOCATION OF SECTION INDICATED THIS: - [Symbol] -

FOR INDEX OF SHEETS, SEE SHEET NO. 2

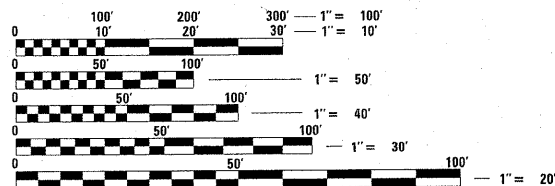
**PROJECT LOCATED IN
PALOS TOWNSHIP**

TRAFFIC DATA:

95th St.
SPEED LIMIT - 40 MPH
2000 ADT - 11000
2020 ADT - 14000

104th AVE.
SPEED LIMIT - 40 MPH
2000 ADT - 8500
2020 ADT - 11000

FLAVIN RD.
SPEED LIMIT - 50 MPH
2000 ADT - 8500
2020 ADT - 11000

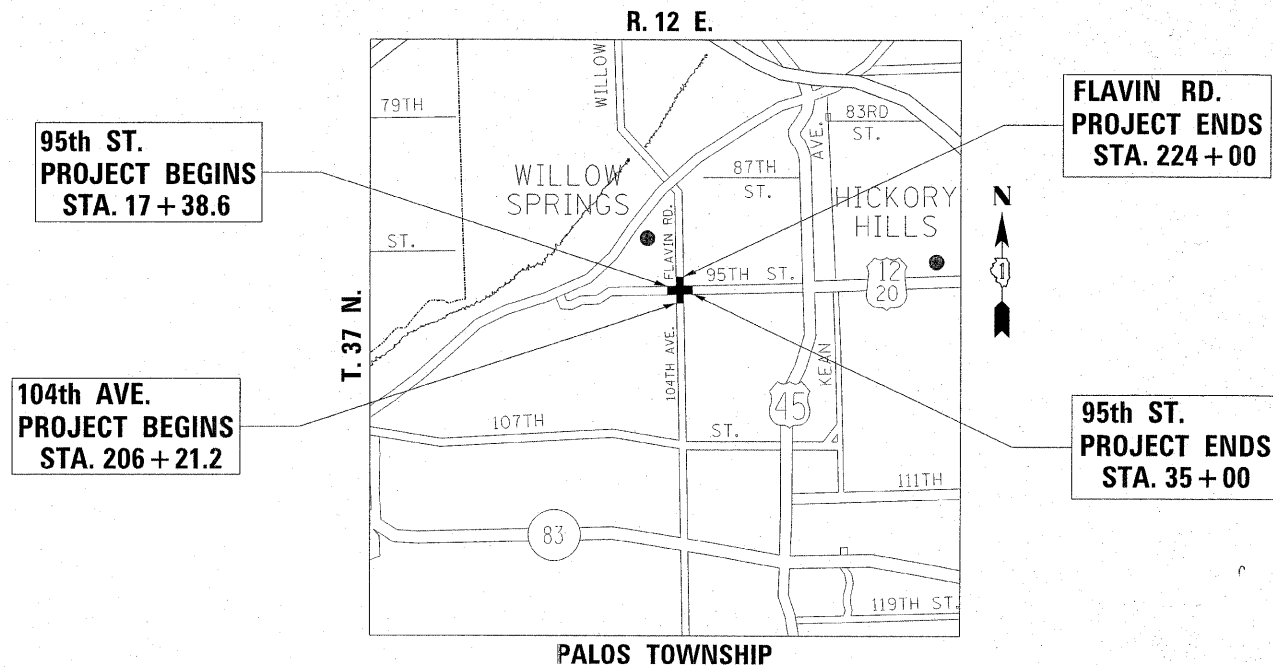


FULL SIZE PLANS HAVE BEEN PREPARED USING STANDARD ENGINEERING SCALES. REDUCED SIZED PLANS WILL NOT CONFORM TO STANDARD SCALES. IN MAKING MEASUREMENTS ON REDUCED PLANS, THE ABOVE SCALES MAY BE USED.

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

PROJECT ENGINEER: JENPAI CHANG (847) 705-4432
PROJECT MANAGER: KEN ENG (847) 705-4247

CONTRACT NO. 62377



95th ST.: GROSS AND NET LENGTH OF PROJECT - 1762 LIN FT - .33 MI
104th AVE./FLAVIN RD.: GROSS AND NET LENGTH OF PROJECT - 1779 LIN FT - .34 MI

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION
DIVISION OF HIGHWAYS

SUBMITTED August 25, 2011
Diane M. O'Keefe
DEPUTY DIRECTOR OF HIGHWAYS, REGION ENGINEER

February 3, 2012
John D. Baranelli, P.E.
ENGINEER OF DESIGN AND ENVIRONMENT

February 3, 2012
William R. Frey
DIRECTOR OF HIGHWAYS, CHIEF ENGINEER

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

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701011-02	OFF-ROAD MOVING OPERATIONS 2L, 2W, DAY ONLY
701301-04	LANE CLOSURE, 2L, 2W, SHORT TIME OPERATIONS
701306-03	LANE CLOSURE, 2L, 2W SLOW MOVING OPERATIONS - DAY ONLY FOR SPEEDS > 45 MPH
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COMMITMENTS

1. A TEMPORARY RETAINING WALL SHALL BE BUILT THREE FEET INSIDE THE RIGHT-OF-WAY LINE TO MINIMIZE WETLAND IMPACTS.
2. A FINAL RETAINING WALL SHALL BE BUILT SIX FEET TOWARD THE ROADWAY, IN FROM THE RIGHT-OF-WAY LINE.
3. BUCKTHORN REMOVAL SHALL OCCUR DURING CONSTRUCTION
4. A LANDSCAPING PLAN INCORPORATING PLANT SPECIES AMENABLE TO THE LITTLE RED SCHOOL HOUSE NATURAL AREAS INVENTORY SITE SHALL BE IMPLEMENTED.
5. ALL WETLANDS AND THE LITTLE RED SCHOOL HOUSE NATURAL AREAS INVENTORY SITE SHALL BE IDENTIFIED AS "NO-INTRUSION ZONES" IN ORDER TO PREVENT UNINTENDED IMPACTS DURING CONSTRUCTION. THESE SITES CANNOT BE USED FOR ANY REASON, WITH THE EXCEPTION OF THE KNOWN .056 ACRES OF IMPACT TO WETLAND SITE 1.

FILE NAME =	USER NAME = steedpo	DESIGNED -	REVISED -	STATE OF ILLINOIS DEPARTMENT OF TRANSPORTATION	INDEX OF SHEETS, STATE STANDARDS, AND GENERAL NOTES				F.A.U. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
01\pw_work\pwidot\stedpo\00159915\PI44499-Design.dgn	DRAWN -	REVISED -	REVISED -		95th STREET @ 104th AVENUE/ FLAVIN ROAD				1566	29 R-N-1	COOK	120	2
	PLOT SCALE = 50.7684 ' / IN.	CHECKED -	REVISED -		SCALE:	SHEET NO.	OF	SHEETS	STA.	TO	STA.	CONTRACT NO. 62377	
	PLOT DATE = 2/9/2011	DATE -	REVISED -		ILLINOIS FED. AID PROJECT								

GENERAL NOTES

BEFORE STARTING ANY EXCAVATION THE CONTRACTOR SHALL CALL "JULIE" AT 800-892-0123 OR "CUAN" (CHICAGO UTILITY ALERT NETWORK) AT 312-744-7000 FOR FIELD LOCATIONS OF BURIED ELECTRIC, TELEPHONE AND GAS FACILITIES, (48 HOURS NOTIFICATION IS REQUIRED).

10 FEET (3 METERS) TRANSITIONS SHALL BE USED TO MATCH PROPOSED CURB AND GUTTER AND MEDIAN ITEMS OF WORK TO EXISTING CURBS AND GUTTERS AND MEDIANS IN THE FIELD, UNLESS OTHERWISE SHOWN. THE TRANSITION SHALL BE PAID FOR AT THE CONTRACT UNIT PRICE FOR THE PROPOSED ITEMS OF WORK SPECIFIED.

THE CONTRACTOR SHALL COORDINATE CONSTRUCTION ACTIVITIES WITH THE UTILITY COMPANIES AND THE VILLAGE OF WILLOW SPRINGS.

THE CONTRACTOR WILL NOT BE ALLOWED TO SET UP A YARD OR FIELD OFFICE ON STATE PROPERTY WITHOUT WRITTEN PERMISSION FROM THE DEPARTMENT.

THE REMOVAL OF GUARDRAIL TERMINAL SECTIONS SHALL BE INCLUDED IN THE UNIT PRICE PER LINEAL FOOT FOR "STEEL PLATE BEAM GUARDRAIL REMOVAL."

DRAINAGE ADJUSTMENT OR RECONSTRUCTION LOCATIONS WILL BE DETERMINED BY THE ENGINEER.

THE CONTRACTOR SHALL CONTACT THE DISTRICT ONE TRAFFIC CONTROL CENTER AT (847) 705-4470 A MINIMUM OF 72 HOURS PRIOR TO START OF WORK.

PERMANENT PAVEMENT MARKINGS SHALL BE THERMOPLASTIC (OF THE EXTRUDED TYPE) AND SHOULD BE PLACED IN ACCORDANCE TO THE "DISTRICT ONE TYPICAL PAVEMENT MARKINGS".

RAISED REFLECTIVE PAVEMENT MARKERS SHALL BE IN ACCORDANCE WITH THE DISTRICT ONE "TYPICAL APPLICATION RAISED REFLECTIVE PAVEMENT MARKERS" DETAIL.

THE RESIDENT ENGINEER SHOULD CONTACT MS. PATRICE HARRIS, AREA TRAFFIC ENGINEER, AT (708) 597-9800 PRIOR TO PLACING ANY PAVEMENT MARKINGS.

PAVEMENT MARKING TAPE, TYPE III SHALL BE USED FOR SHORT TERM PAVEMENT MARKINGS ON ALL FINAL SURFACES. THE COST OF THE PAVEMENT MARKING TAPE, AND ITS REMOVAL SHALL BE INCLUDED IN THE COST OF SHORT TERM PAVEMENT MARKING.

THE CONTRACTOR WILL BE REQUIRED TO KEEP A RECORD OF THE LOCATIONS OF THE BURIED STRUCTRES ACCORDING TO THE STATION AND DISTANCE LEFT OR RIGHT OF THE CENTERLINE OF PAVEMENT. UPON COMPLETION OF THE WORK, THE CONTRACTOR WILL DELIVER THE RECORD TO THE ENGINEER.

ABANDONED SEWERS SHALL BE PLUGGED WITH SI MORTAR, OR BRICK AND SUITABLE MATERIAL TO THE SATISFACTION OF THE ENGINEER AS SPECIFIED IN ARTICLE 550.05 OF THE STANDARD SPECIFICATION FOR ROAD AND BRIDGE CONSTRUCTION AND SHALL NOT BE PAID FOR SEPARATELY, BUT WILL BE CONSIDERED AS INCLUDED IN THE UNIT PRICE PER LINEAR FEET OF THE STORM SEWER REMOVAL WITH THE SIZE SPECIFIED.

BEFORE BEGINNING ANY WORK, THE CONTRACTOR SHALL RETAIN AND RECORD FOR FUTURE REFERENCE, ALL EXISTING PAVEMENT MARKING LINES (AND RAISED REFLECTIVE MARKINGS) IN ORDER THAT THESE LOCATIONS CAN BE RE-ESTABLISHED FOR STRIPING. EXACT LOCATIONS OF ALL PAVEMENT MARKINGS SHALL BE AS DIRECTED BY THE ENGINEER.

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

FILE NAME =	USER NAME = steedpa	DESIGNED -	REVISED -	STATE OF ILLINOIS DEPARTMENT OF TRANSPORTATION	INDEX OF SHEETS, STATE STANDARDS, AND GENERAL NOTES 95th STREET @ 104th AVENUE/ FLAVIN ROAD	F.A.U. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
of\pwork\pwork\stedpa\d0159915\PI44499-Design.dgn	DRAWN -	REVISED -	1566			29 R-N-1	COOK	120	3	
PLOT SCALE = 50.0000' / in.	CHECKED -	REVISED -	CONTRACT NO. 62377							
PLOT DATE = 10/13/2011	DATE -	REVISED -	SCALE:			SHEET NO.	OF	SHEETS	STA.	TO STA.

SUMMARY OF QUANTITIES			CONSTRUCTION TYPE CODE					SUMMARY OF QUANTITIES			CONSTRUCTION TYPE CODE						
CODE NO	ITEM	UNIT	URBAN TOTAL QUANTITIES	TRAFFIC SIGNALS					CODE NO	ITEM	UNIT	URBAN TOTAL QUANTITIES	TRAFFIC SIGNALS				
				ROADWAY RE-CONSTRUCTION	RETAINING WALLS	LANDSCAPING ITEMS	95TH ST. @ 104TH AVE./ FLAVIN RD.	100% COST TO NORTH PALOS FIRE PROTECTION DISTRICT					ROADWAY RE-CONSTRUCTION	RETAINING WALLS	LANDSCAPING ITEMS	95TH ST. @ 104TH AVE./ FLAVIN RD.	100% COST TO NORTH PALOS FIRE PROTECTION DISTRICT
				0004	0040	0004	0021	0021				0004	0040	0004	0021	0021	
*20100110	TREE REMOVAL (6 TO 15 UNITS DIAMETER)	UNIT	63			63			54214527	PRECAST REINFORCED CONCRETE FLARED END SECTIONS, EQUIVALENT ROUND-SIZE 42"	EACH	1	1				
*20101000	TEMPORARY FENCE	FOOT	1531			1531			54247130	GRATING FOR CONCRETE FLARED END SECTIONS, 24"	EACH	2	2				
*20101100	TREE TRUNK PROTECTION	EACH	7			7			54248170	GRATING FOR CONCRETE FLARED END SECTION EQUIVALENT ROUND-SIZE 42"	EACH	1	1				
*20101300	TREE PRUNING (1 TO 10 INCH DIAMETER)	EACH	5			5			542A1069	PIPE CULVERTS, CLASS A, TYPE 2 24"	FOOT	120	120				
*20101350	TREE PRUNING (OVER 10 INCH DIAMETER)	EACH	5			5			542A5497	PIPE CULVERTS, CLASS A, TYPE 1 EQUIVALENT ROUND-SIZE 42"	FOOT	165	165				
20200100	EARTH EXCAVATION	CU YD	10644	10644					55101200	STORM SEWER REMOVAL 24"	FOOT	244	244				
20201200	REMOVAL AND DISPOSAL OF UNSUITABLE MATERIAL	CU YD	501	501					59300100	CONTROLLED LOW-STRENGTH MATERIAL	CU YD	53	53				
20700220	POROUS GRANULAR EMBANKMENT	CU YD	61	61					60100060	CONCRETE HEADWALLS FOR PIPE DRAINS	EACH	10	10				
*20800150	TRENCH BACKFILL	CU YD	259	259					60100080	FRENCH DRAINS	CU YD	6	6				
21001000	GEOTECHNICAL FABRIC FOR GROUND STABILIZATION	SO YD	161	161					60107600	PIPE UNDERDRAINS 4"	FOOT	678	678				
*21101615	TOPSOIL FURNISH AND PLACE, 4"	SO YD	6912			6912			*63000001	STEEL PLATE BEAM GUARDRAIL, TYPE A, 6 FOOT POSTS	FOOT	1182	1182				
*21101815	COMPOST FURNISH AND PLACE, 4"	SO YD	7069			7069			*63100167	TRAFFIC BARRIER TERMINAL, TYPE 1 (SPECIAL) TANGENT	EACH	3	3				
21400100	GRADING AND SHAPING DITCHES	FOOT	2600	2600					63200310	GUARDRAIL REMOVAL	FOOT	255	255				
*25000210	SEEDING, CLASS 2A	ACRE	2			2			*66900200	NON-SPECIAL WASTE DISPOSAL	CU YD	188	188				
*25000310	SEEDING, CLASS 4	ACRE	1			1			*66900450	SPECIAL WASTE PLANS AND REPORTS	L SUM	1	1				
*25000400	NITROGEN FERTILIZER NUTRIENT	POUND	180	180					*66900530	SOIL DISPOSAL ANALYSIS	EACH	1	1				
*25000500	PHOSPHORUS FERTILIZER NUTRIENT	POUND	180	180					67000400	ENGINEER'S FIELD OFFICE, TYPE A	CAL MO	6	6				
*25000600	POTASSIUM FERTILIZER NUTRIENT	POUND	180	180					67100100	MOBILIZATION	L SUM	1	1				
25100630	EROSION CONTROL BLANKET	SO YD	12985	12985					70106800	CHANGEABLE MESSAGE SIGN	CAL MO	4	4				
28000305	TEMPORARY DITCH CHECKS	FOOT	243	243					70300220	TEMPORARY PAVEMENT MARKING - LINE 4"	FOOT	17,652	17,652				
28000400	PERIMETER EROSION BARRIER	FOOT	4944	4944					70300280	TEMPORARY PAVEMENT MARKING - LINE 24"	FOOT	100	100				
28000500	INLET AND PIPE PROTECTION	EACH	6	6					70301000	WORK ZONE PAVEMENT MARKING REMOVAL	SO FT	6,084	6,084				
35501316	HOT-MIX ASPHALT BASE COURSE, 8"	SO YD	360	360					70400100	TEMPORARY CONCRETE BARRIER	FOOT	1679	1679				
40603335	HOT-MIX ASPHALT SURFACE COURSE, MIX "D", N50	TON	41	41					70400200	RELOCATE TEMPORARY CONCRETE BARRIER	FOOT	1700	1700				
40701866	HOT-MIX ASPHALT PAVEMENT (FULL-DEPTH), 9 1/4"	SO YD	14000	14000					*72000100	SIGN PANEL - TYPE 1	SO FT	39			39		
44000100	PAVEMENT REMOVAL	SO YD	27,629	27,629					*72000200	SIGN PANEL - TYPE 2	SO FT	27.5			27.5		
44000200	DRIVEWAY PAVEMENT REMOVAL	SO YD	427	427					*78000100	THERMOPLASTIC PAVEMENT MARKING - LETTERS AND SYMBOLS	SO FT	365	365				
48101200	AGGREGATE SHOULDERS, TYPE B	TON	246	246					*78000200	THERMOPLASTIC PAVEMENT MARKING - LINE 4"	FOOT	12806	12806				
48203034	HOT-MIX ASPHALT SHOULDERS, 9 1/4"	SO YD	3941	3941					*78000400	THERMOPLASTIC PAVEMENT MARKING - LINE 6"	FOOT	1094	1094				
50300225	CONCRETE STRUCTURES	CU YD	68.7	27.9	40.8				*78000600	THERMOPLASTIC PAVEMENT MARKING - LINE 12"	FOOT	831	831				
50500505	STUD SHEAR CONNECTORS	EACH	118		118												
50800105	REINFORCEMENT BARS	POUND	2810	2810													
50800205	REINFORCEMENT BARS, EPOXY COATED	POUND	3900	300	3600												
54213669	PRECAST REINFORCED CONCRETE FLARED END SECTIONS, 24"	EACH	2	2													

* SPECIALTY ITEMS
 NON-PARTICIPATING ITEMS

FILE NAME =	USER NAME =	DESIGNED -	REVISED -	STATE OF ILLINOIS DEPARTMENT OF TRANSPORTATION				SUMMARY OF QUANTITIES 95th STREET @ 104th AVENUE/ FLAVIN ROAD				F.A.U. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
C:\paw\work\paw\104th\steepp\01059935\PI444499-Dist\grd\g		DRAWN -	REVISED -									1566	29R-N-1	COOK	120	4
PLOT SCALE = 50,0000' / 1"		CHECKED -	REVISED -									CONTRACT NO. 62377				
PLOT DATE = 12/15/2011		DATE -	REVISED -									SCALE:	SHEET NO. OF SHEETS	STA. TO STA.	FED. ROAD DIST. NO. 1 ILLINOIS FED. AID PROJECT	

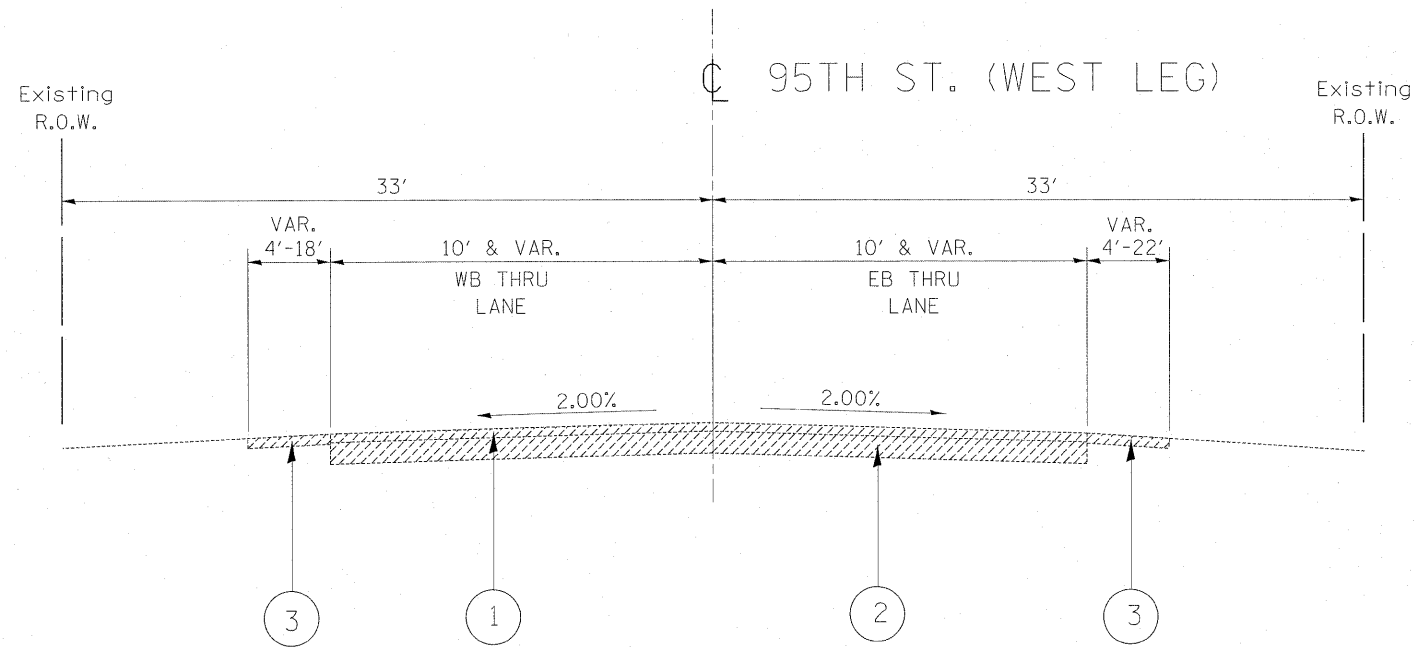
SUMMARY OF QUANTITIES				CONSTRUCTION TYPE CODE					SUMMARY OF QUANTITIES				CONSTRUCTION TYPE CODE				
CODE NO	ITEM	UNIT	TOTAL QUANTITIES	ROADWAY RE-CONSTRUCTION	RETAINING WALLS	LANDSCAPING ITEMS	TRAFFIC SIGNALS		CODE NO	ITEM	UNIT	TOTAL QUANTITIES	ROADWAY RE-CONSTRUCTION	RETAINING WALLS	LANDSCAPING ITEMS	TRAFFIC SIGNALS	
				0004	0040	0004 0031	95TH ST. & 104TH AVE./FLAVIN RD. 0021	100% COST TO NORTH PALOS FIRE PROTECTION DISTRICT 0021					0004	0040	0004 0031	95TH ST. & 104TH AVE./FLAVIN RD. 0021	100% COST TO NORTH PALOS FIRE PROTECTION DISTRICT 0021
*78000650	THERMOPLASTIC PAVEMENT MARKING - LINE 24"	FOOT	149	149					*87800415	CONCRETE FOUNDATION, TYPE E 36-INCH DIAMETER	FOOT	56					56
*78100100	RAISED REFLECTIVE PAVEMENT MARKER	EACH	198	198					*88030020	SIGNAL HEAD, LED, 1-FACE, 3-SECTION, MAST-ARM MOUNTED	EACH	3					3
*78200410	GUARDRAIL MARKERS, TYPE A	EACH	15	15					*88030100	SIGNAL HEAD, LED, 1-FACE, 5-SECTION, BRACKET MOUNTED	EACH	3					3
*78201000	TERMINAL MARKER - DIRECT APPLIED	EACH	3	3					*88030110	SIGNAL HEAD, LED, 1-FACE, 5-SECTION, MAST-ARM MOUNTED	EACH	5					5
78300100	PAVEMENT MARKING REMOVAL	SO FT	3143	3143					*88200210	TRAFFIC SIGNAL BACKPLATE, LOUVERED, ALUMINUM	EACH	8					8
*80500010	SERVICE INSTALLATION - GROUND MOUNTED	EACH	1				1		*88500100	INDUCTIVE LOOP DETECTOR	EACH	8					8
*81018500	CONDUIT PUSHED, 2" DIA., GALVANIZED STEEL	FOOT	52				52		*88600100	DETECTOR LOOP, TYPE I	FOOT	1083					1083
*81018900	CONDUIT PUSHED, 4" DIA., GALVANIZED STEEL	FOOT	317				317		*88700200	LIGHT DETECTOR	EACH	2					2
*81028200	UNDERGROUND CONDUIT, GALVANIZED STEEL, 2" DIA.	FOOT	815				815		*88700300	LIGHT DETECTOR AMPLIFIER	EACH	1					1
*81028210	UNDERGROUND CONDUIT, GALVANIZED STEEL, 2 1/2" DIA.	FOOT	40				40		*A2006716	TREE, QUERCUS MACROCARPA (BUR OAK), 2" CALIPER, BALLED AND BURLAPPED	EACH	4			4		
*81028240	UNDERGROUND CONDUIT, GALVANIZED STEEL, 4" DIA.	FOOT	363				363		*C2C01120	SHRUB, CEPHALANTHUS OCCIDENTALIS (BUTTON BUSH), 2' HEIGHT, CONTAINER	EACH	160			160		
*81400100	HANDHOLE	EACH	2				2		*K0013030	PERENNIAL PLANTS, WETLAND TYPE, 2" DIAMETER BY 4" DEEP PLUG	UNIT	6.08			6.08		
*81400200	HEAVY-DUTY HANDHOLE	EACH	7				7		*K0026850	PERENNIAL PLANT CARE	SO YD	264			264		
*81400300	DOUBLE HANDHOLE	EACH	1				1		*K0029626	WEED CONTROL, TEASEL	POUND	0.25			0.25		
*81900200	TRENCH AND BACKFILL FOR ELECTRICAL WORK	FOOT	590				590		*K0029634	WEED CONTROL, PRE-EMERGENT GRANULAR HERBICIDE	POUND	400			400		
*85700200	FULL-ACTUATED CONTROLLER AND TYPE IV CABINET	EACH	1				1	340	K1005418	TEMPORARY SEEDING	ACRE	3			3		
*87301225	ELECTRIC CABLE IN CONDUIT, SIGNAL NO. 14 3C	FOOT	340						*KK029632	WEED CONTROL, NON-SELECTIVE AND NON-RESIDUAL (WETLAND)	GALLON	4			4		
*87301245	ELECTRIC CABLE IN CONDUIT, SIGNAL NO. 14 5C	FOOT	668				668		XX008455	INLET BOX, SPECIAL	EACH	1	1				
*87301255	ELECTRIC CABLE IN CONDUIT, SIGNAL NO. 14 7C	FOOT	1913				1913		XX006746	RUSTIFICATION FINISH, TYPE 1	SO FT	7140		7140			
*87301305	ELECTRIC CABLE IN CONDUIT, LEAD-IN, NO. 14 1 PAIR	FOOT	1707				1707		X0322992	COARSE SAND PLACEMENT, 4"	SO YD	70			70		
*87301805	ELECTRIC CABLE IN CONDUIT, SERVICE, NO. 6 2 C	FOOT	54				54		X2020110	GRADING AND SHAPING SHOULDERS	UNIT	62	62				
*87301900	ELECTRICAL CABLE IN CONDUIT, EQUIPMENT GROUNDING CONDUCTOR, NO. 6 1C	FOOT	722				722		*X2501800	SEEDING, CLASS 4 (MODIFIED)	ACRE	0.3			0.3		
*87700250	STEEL MAST ARM ASSEMBLY AND POLE, 42 FT.	EACH	1				1		*X2502024	SEEDING, CLASS 4B (MODIFIED)	ACRE	0.4			0.4		
*87700280	STEEL MAST ARM ASSEMBLY AND POLE, 48 FT.	EACH	1				1		X4022000	TEMPORARY ACCESS (COMMERCIAL ENTRANCE)	EACH	2	2				
*87700300	STEEL MAST ARM ASSEMBLY AND POLE, 52 FT.	EACH	1				1		X4400110	TEMPORARY PAVEMENT REMOVAL	SO YD	17625	17625				
*87700310	STEEL MAST ARM ASSEMBLY AND POLE, 54 FT.	EACH	1				1		X4810200	AGGREGATE SHOULDER REMOVAL	CU YD	1901	1901				
*87800100	CONCRETE FOUNDATION, TYPE A	FOOT	12				12		X5121800	PERMANENT STEEL SHEET PILING	SO FT	7460		7460			
*87800200	CONCRETE FOUNDATION, TYPE B	FOOT	4				4		X6310176	TRAFFIC BARRIER TERMINAL, TYPE 2 (SPECIAL)	EACH	3	3				
									X6640300	CHAIN LINK FENCE REMOVAL	FOOT	535	535				
									X6640560	CHAIN LINK FENCE, 6' (SPECIAL)	FOOT	535	535				

* SPECIALTY ITEMS
 NON-PARTICIPATING ITEMS

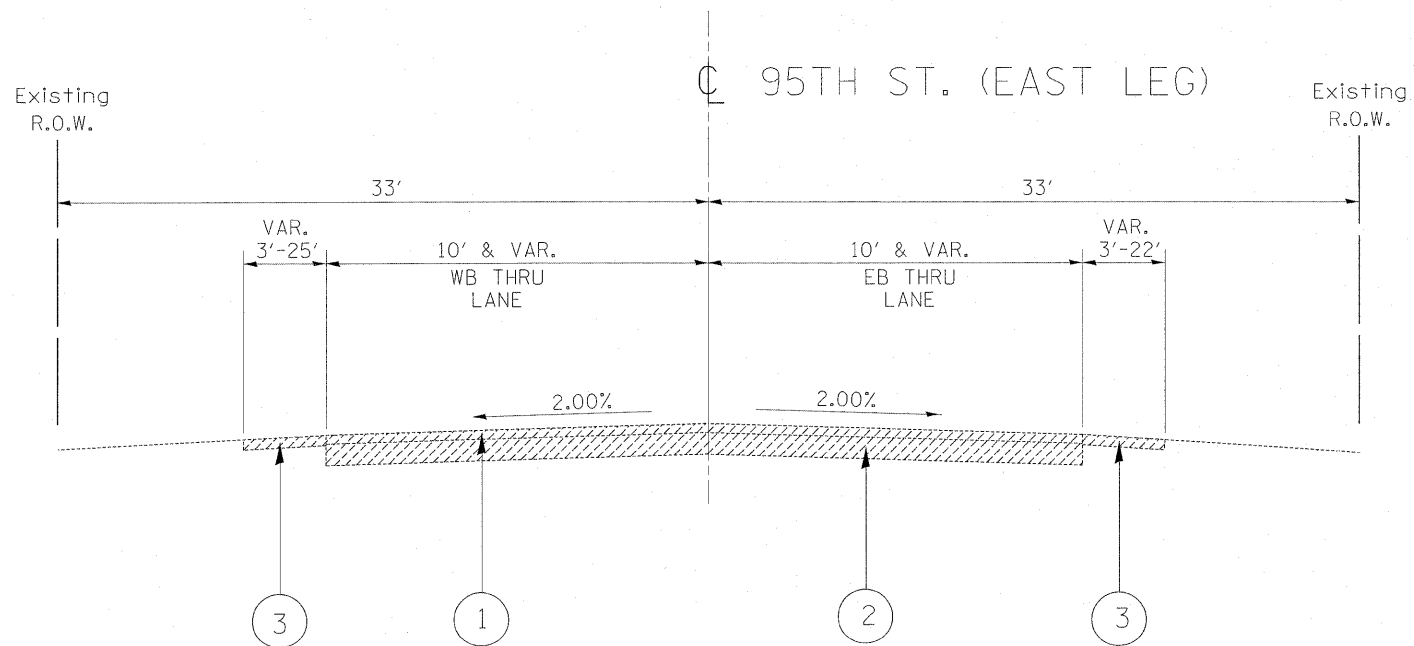
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cdw_work\p\tdof\stee\pa\0159915\144499-Design.dwg	DRAWN -	REVISED -	REVISED -		95th STREET @ 104th AVENUE/ FLAVIN ROAD				1566	29R-N-1	COOK	120	5
	PLOT SCALE = 50.0000' / 1"	CHECKED -	REVISED -		SCALE:	SHEET NO.	OF	SHEETS	STA.	TO STA.	FED. ROAD DIST. NO. 1	ILLINOIS	FED. AID PROJECT
	PLOT DATE = 12/15/2011	DATE -	REVISED -						CONTRACT NO. 62377				

SUMMARY OF QUANTITIES			TOTAL QUANTITIES	CONSTRUCTION TYPE CODE					SUMMARY OF QUANTITIES			TOTAL QUANTITIES	CONSTRUCTION TYPE CODE				
CODE NO	ITEM	UNIT		ROADWAY RE-CONSTRUCTION	RETAINING WALLS	LANDSCAPING ITEMS	TRAFFIC SIGNALS		CODE NO	ITEM	UNIT		95TH ST. @ 104TH AVE./ FLAVIN RD.	100% COST TO NORTH PALOS FIRE PROTECTION DISTRICT			
			0004	0040	0004	0021	0021										
X7010216	TRAFFIC CONTROL AND PROTECTION, (SPECIAL)	L SUM	1	1													
*X8620200	UNINTERRUPTIBLE POWER SUPPLY, SPECIAL	EACH	1			1											
*X8730250	ELECTRIC CABLE IN CONDUIT NO. 20 3/C, TWISTED, SHIELDED	FOOT	340				340										
Z0001050	AGGREGATE SUBGRADE 12"	SQ YD	17937	17937													
Z0013798	CONSTRUCTION LAYOUT	L SUM	1	1													
Z0029604	HEADWALL REMOVAL	EACH	4	4													
Z0030240	IMPACT ATTENUATORS, TEMPORARY (NON-REDIRECTIVE), TEST LEVEL 2	EACH	6	6													
Z0030340	IMPACT ATTENUATORS, RELOCATE (NON-REDIRECTIVE), TEST LEVEL 2	EACH	6	6													
Z0030850	TEMPORARY INFORMATION SIGNING	SQ FT	102.8	102.8													
Z0042002	POROUS GRANULAR EMBANKMENT, SUBGRADE	CU YD	781	781													
Z0062456	TEMPORARY PAVEMENT	SQ YD	17625	17625													
*Z0064800	SELECTIVE CLEARING	UNIT	14		14												
* 8102B220	UNDERGROUND CONDUIT, GALVANIZED STEEL, 3" DIA.	FOOT	106			106											
* 87502500	TRAFFIC SIGNAL POST, GALVANIZED STEEL, 16 FT.	EACH	3			3											
* 87700240	STEEL MAST ARM ASSEMBLY AND POLE, 40 FT.	EACH	2			2											
* 87700290	STEEL MAST ARM ASSEMBLY AND POLE, 50 FT.	EACH	1			1											
* 87800150	CONCRETE FOUNDATION, TYPE C	FOOT	4			4											
* 88030220	SIGNAL HEAD, LED, 2-FACE, 5-SECTION BRACKET MOUNTED	EACH	1			1											
50100100	REMOVAL OF EXISTING STRUCTURES	EACH	2	2													
50104400	CONCRETE HEADWALL REMOVAL	EACH	4	4													
50300285	FORM LINER TEXTURED SURFACE	SQ FT	735		735												

* SPECIALTY ITEMS
 NON-PARTICIPATING ITEMS



EXISTING TYPICAL SECTION
STA. 17+39 TO 25+22



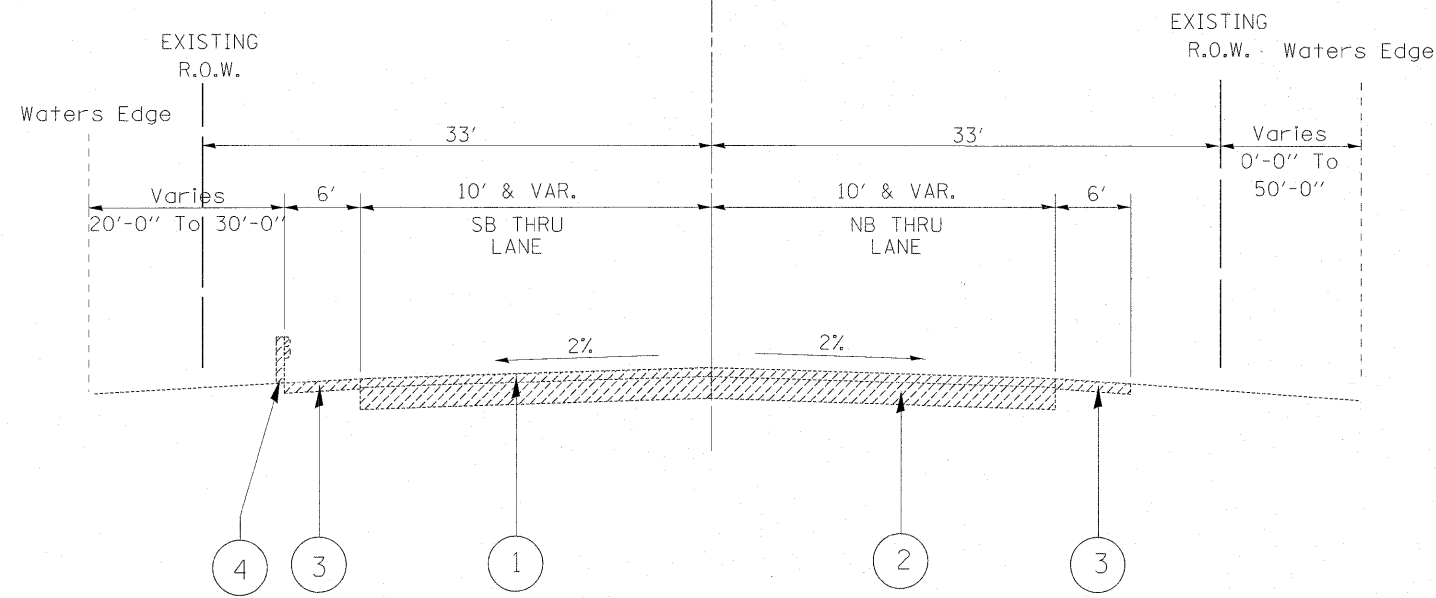
EXISTING TYPICAL SECTION
STA. 25+22 TO 35+00

LEGEND:

- ① EXIST. BITUMINOUS SURFACE, ±7"
 - ② EXIST. P.C.C. PAVEMENT BASE, ±8"
 - ③ EXIST. AGGREGATE SHOULDER
 - ④ EXIST. GUARDRAIL
 - ⑤ PROP. AGGREGATE SUBGRADE, 12"
 - ⑥ PROP. HOT-MIX ASPHALT PAVEMENT (FULL DEPTH), 9 1/4"
 - ⑦ PROP. HOT-MIX ASPHALT SHOULDER, 9 1/4"
 - ⑧ PROP. STEEL PLATE BEAM GUARDRAIL
 - ⑨ PROP. RETAINING WALL
 - ⑩ PROP. GRADING AND SHAPING DITCHES
 - ⑪ PROP. GRADING AND SHAPING SHOULDERS
 - ⑫ PROP. AGGREGATE SHOULDERS, TYPE B
- ▨ DENOTES ITEMS TO BE REMOVED

FILE NAME =	USER NAME = steepps	DESIGNED -	REVISED -	STATE OF ILLINOIS DEPARTMENT OF TRANSPORTATION	EXISTING AND PROPOSED TYPICAL SECTIONS 95th STREET @ 104th AVENUE/ FLAVIN ROAD			F.A.U. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
ct:\pwork\pwork\steepps\159915\144499-Design.dgn	PLOT SCALE = 50.1351' / 1in.	DRAWN -	REVISED -					1566	29 R-N-1	COOK	120	7
PLOT DATE = 1/19/2012	DATE -	CHECKED -	REVISED -		SCALE: SHEET NO. OF SHEETS STA. TO STA.			CONTRACT NO. 62377				
								ILLINOIS FED. AID PROJECT				

104TH AVE. (SOUTH LEG)



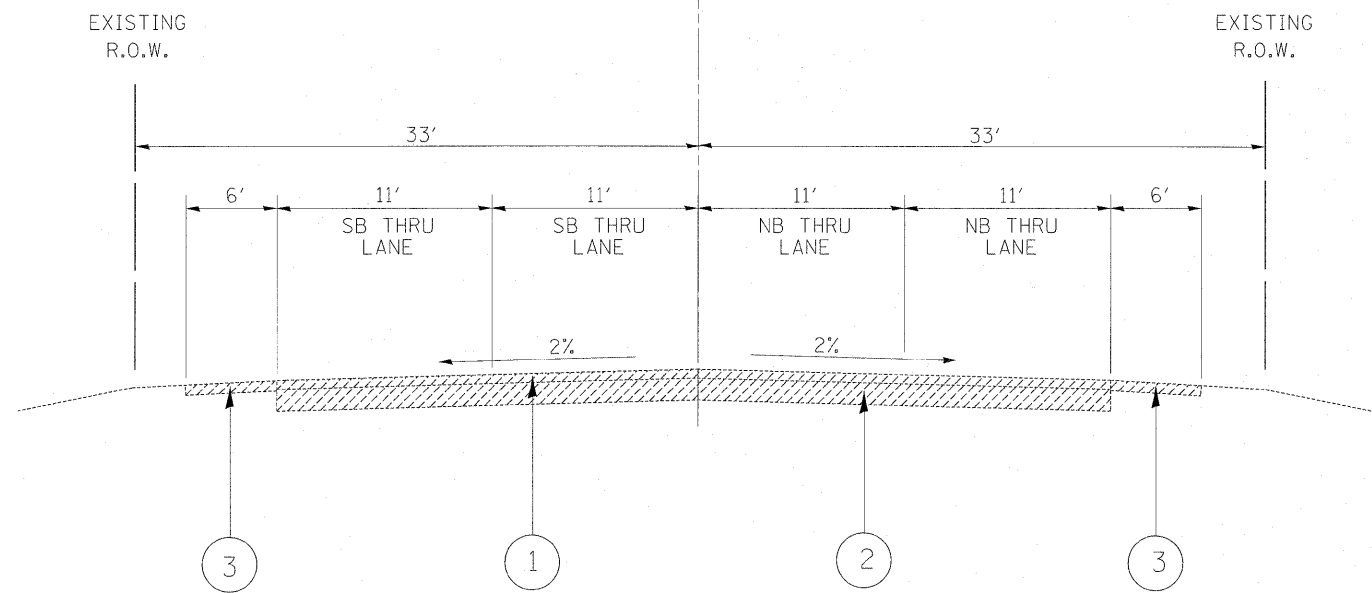
EXISTING TYPICAL SECTION
STA. 206+21 TO 215+64

LEGEND:

- ① EXIST. BITUMINOUS SURFACE, ±7"
- ② EXIST. P.C.C. PAVEMENT BASE, ±8"
- ③ EXIST. AGGREGATE SHOULDER
- ④ EXIST. GUARDRAIL
- ⑤ PROP. AGGREGATE SUBGRADE, 12"
- ⑥ PROP. HOT-MIX ASPHALT PAVEMENT (FULL DEPTH), 9 1/4"
- ⑦ PROP. HOT-MIX ASPHALT SHOULDER, 9 1/4"
- ⑧ PROP. STEEL PLATE BEAM GUARDRAIL
- ⑨ PROP. RETAINING WALL
- ⑩ PROP. GRADING AND SHAPING DITCHES
- ⑪ PROP. GRADING AND SHAPING SHOULDERS
- ⑫ PROP. AGGREGATE SHOULDERS, TYPE B

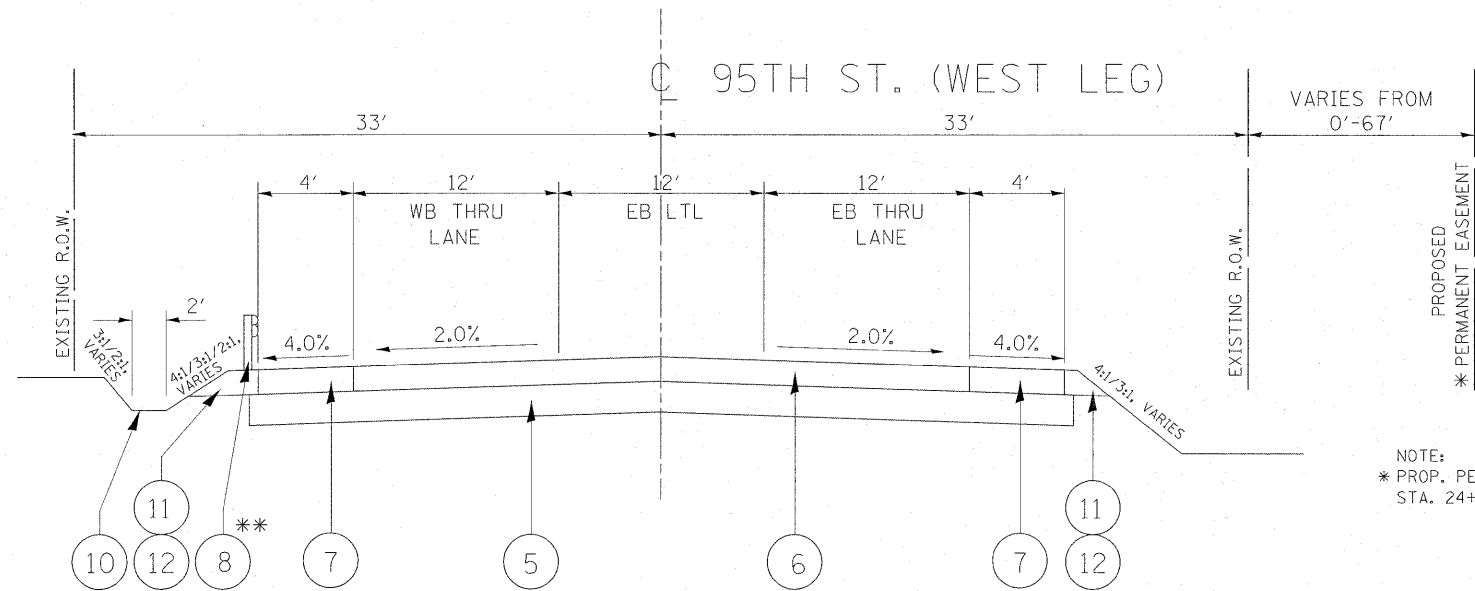
▨ DENOTES ITEMS TO BE REMOVED

FLAVIN RD. (NORTH LEG)



EXISTING TYPICAL SECTION
STA. 215+64 TO 224+00

FILE NAME =	USER NAME = steedpa	DESIGNED -	REVISED -	STATE OF ILLINOIS DEPARTMENT OF TRANSPORTATION	EXISTING AND PROPOSED TYPICAL SECTIONS 95th STREET @ 104th AVENUE/ FLAVIN ROAD				F.A.J. RTE. 1566	SECTION 29 R-N-1	COUNTY COOK	TOTAL SHEETS 120	SHEET NO. 8
g:\pwork\pwork\stedpa\d0159915\144499-Design\dgn	PLOT SCALE = 50,0239' / 1"	DRAWN -	REVISED -						SCALE: SHEET NO. OF SHEETS STA. TO STA.				CONTRACT NO. 62377
	PLOT DATE = 1/19/2012	CHECKED -	REVISED -						ILLINOIS FED. AID PROJECT				
		DATE -	REVISED -										



NOTE:
 ** PROP. STEEL PLATE BEAM GUARDRAIL
 STA. 19+00 TO 22+20

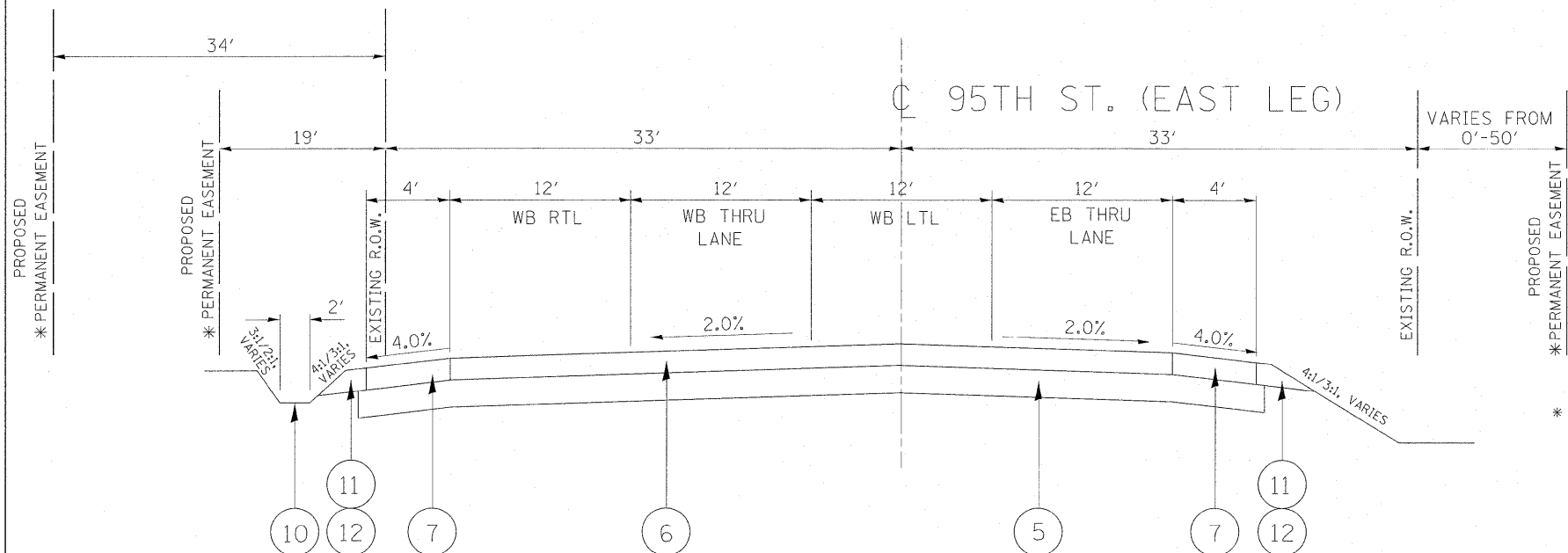
PROPOSED TYPICAL SECTION
 STA. 17+39 TO 25+22

NOTE:
 * PROP. PERMANENT EASEMENT
 STA. 24+38 TO 24+88

LEGEND:

- ① EXIST. BITUMINOUS SURFACE, ±7"
- ② EXIST. P.C.C. PAVEMENT BASE, ±8"
- ③ EXIST. AGGREGATE SHOULDER
- ④ EXIST. GUARDRAIL
- ⑤ PROP. AGGREGATE SUBGRADE, 12"
- ⑥ PROP. HOT-MIX ASPHALT PAVEMENT (FULL DEPTH), 9 1/4"
- ⑦ PROP. HOT-MIX ASPHALT SHOULDER, 9 1/4"
- ⑧ PROP. STEEL PLATE BEAM GUARDRAIL
- ⑨ PROP. RETAINING WALL
- ⑩ PROP. GRADING AND SHAPING DITCHES
- ⑪ PROP. GRADING AND SHAPING SHOULDERS
- ⑫ PROP. AGGREGATE SHOULDERS, TYPE B

▨ DENOTES ITEMS TO BE REMOVED



NOTE:
 * PROP. PERMANENT EASEMENT
 (34' FROM EXIST. R.O.W.)
 STA. 26+11 TO 28+00

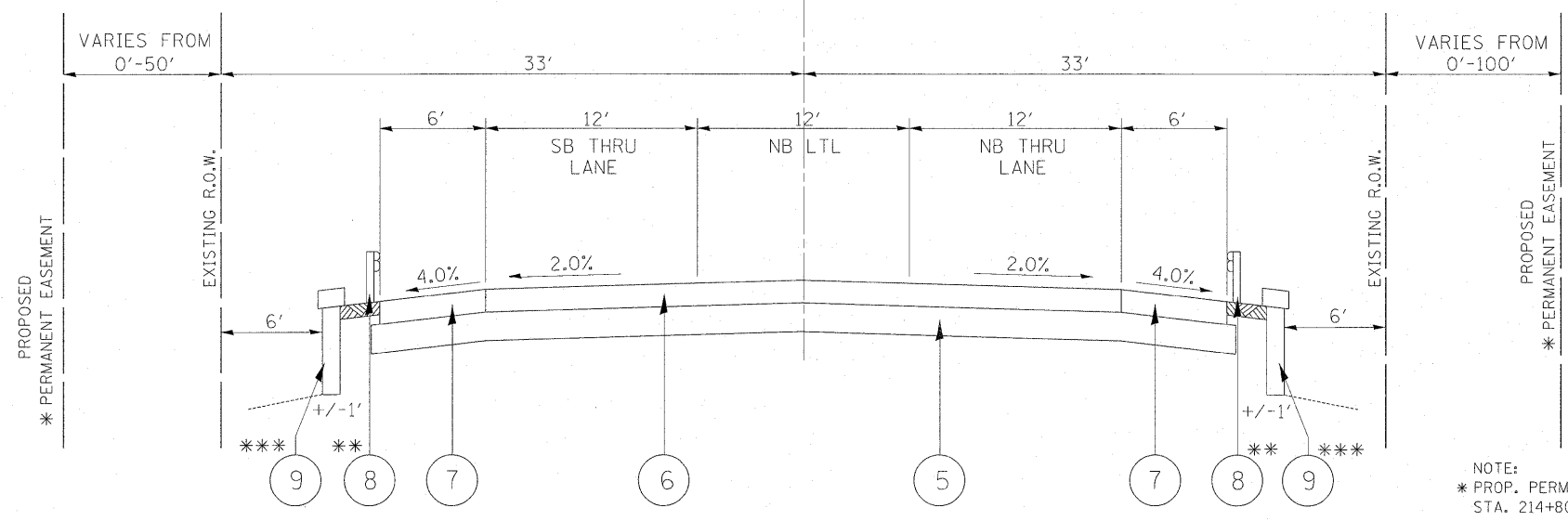
PROP. PERMANENT EASEMENT
 (19' FROM EXIST. R.O.W.)
 STA. 28+00 TO 32+00

NOTE:
 * PROP. PERMANENT EASEMENT
 STA. 25+54 TO 26+58

PROPOSED TYPICAL SECTION
 STA. 25+22 TO 35+00

FILE NAME =	USER NAME = steedpa	DESIGNED -	REVISED -	STATE OF ILLINOIS DEPARTMENT OF TRANSPORTATION	EXISTING AND PROPOSED TYPICAL SECTIONS				F.A.U. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
c:\pwork\pwork\stedpa\d0159915\p144	99-Design.dgn	DRAWN -	REVISED -		95th STREET @ 104th AVENUE/ FLAVIN ROAD				1566	29 R-N-1	COOK	120	9
	PLOT SCALE = 50.0239' / in.	CHECKED -	REVISED -		SCALE: SHEET NO. OF SHEETS STA. TO STA.				CONTRACT NO. 62377				
	PLOT DATE = 1/19/2012	DATE -	REVISED -		ILLINOIS FED. AID PROJECT								

C 104TH AVE. (SOUTH LEG)



NOTE:
* PROP. PERMANENT EASEMENT
STA. 214+80 TO 215+32

NOTE:
* PROP. PERMANENT EASEMENT
STA. 214+63 TO 215+30
** PROP. STEEL PLATE BEAM GUARDRAIL
STA. 211+00 TO 215+30
*** PROP. RETAINING WALL
STA. 212+00 TO 214+10

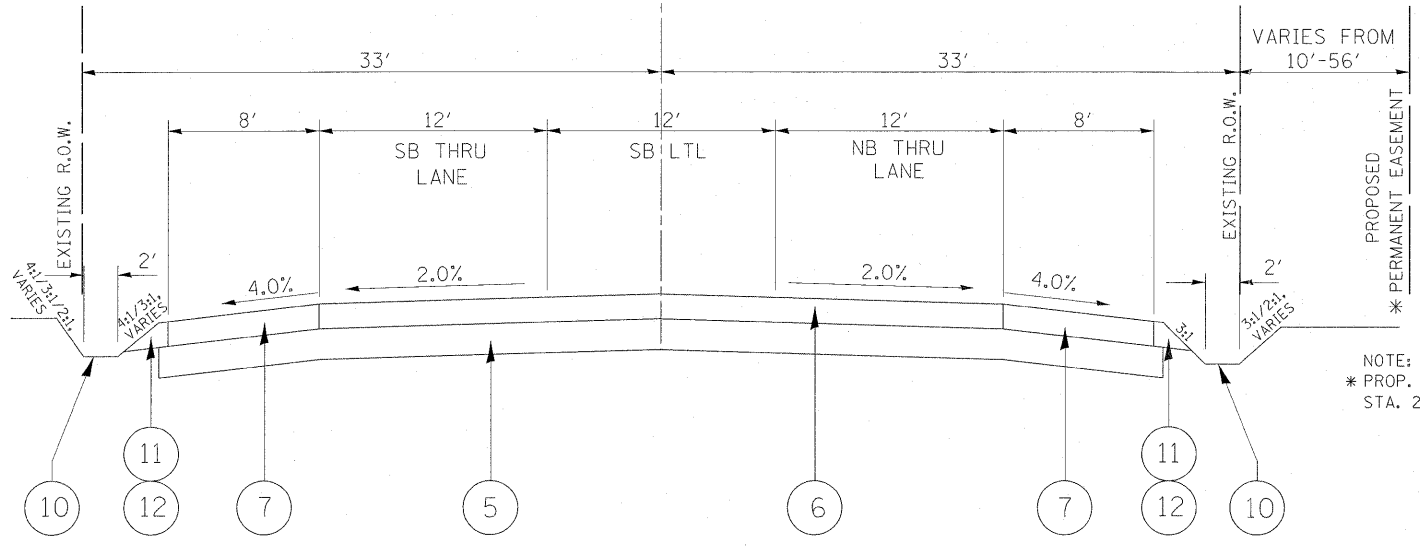
PROPOSED TYPICAL SECTION
STA. 206+21 TO 215+64

LEGEND:

- ① EXIST. BITUMINOUS SURFACE, ±7"
- ② EXIST. P.C.C. PAVEMENT BASE, ±8"
- ③ EXIST. AGGREGATE SHOULDER
- ④ EXIST. GUARDRAIL
- ⑤ PROP. AGGREGATE SUBGRADE, 12"
- ⑥ PROP. HOT-MIX ASPHALT PAVEMENT (FULL DEPTH), 9 1/4"
- ⑦ PROP. HOT-MIX ASPHALT SHOULDER, 9 1/4"
- ⑧ PROP. STEEL PLATE BEAM GUARDRAIL
- ⑨ PROP. RETAINING WALL
- ⑩ PROP. GRADING AND SHAPING DITCHES
- ⑪ PROP. GRADING AND SHAPING SHOULDERS
- ⑫ PROP. AGGREGATE SHOULDERS, TYPE B

▨ DENOTES ITEMS TO BE REMOVED

C FLAVIN RD. (NORTH LEG)



NOTE:
* PROP. PERMANENT EASEMENT
STA. 216+26 TO 224+00

PROPOSED TYPICAL SECTION
STA. 215+64 TO 224+00

FILE NAME =	USER NAME = steedpa	DESIGNED -	REVISED -	STATE OF ILLINOIS DEPARTMENT OF TRANSPORTATION	EXISTING AND PROPOSED TYPICAL SECTIONS 95th STREET @ 104th AVENUE/ FLAVIN ROAD	F.A.U. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.	
o:\pwork\p\dot\stedpa\2159915\144499-Design.dgn	PLOT SCALE = 50.0712' / in.	DRAWN -	REVISED -			1566	29 R-N-1	COOK	120	10	
	PLOT DATE = 1/19/2012	CHECKED -	REVISED -			CONTRACT NO. 62377					
		DATE -	REVISED -			ILLINOIS FED. AID PROJECT					
					SCALE:	SHEET NO.	OF	SHEETS	STA.	TO STA.	

EARTHWORK SCHEDULE FOR 95TH ST.

LOCATION	EARTH EXCAVATION	EARTH EXCAVATION ADJUSTED FOR SHRINKAGE (SHRINKAGE FACTOR) 15%	EMBANKMENT	EMBANKMENT BALANCE WASTE (+) OR SHORTAGE (-)
	CUBIC YARDS	CUBIC YARDS	CUBIC YARDS	CUBIC YARDS
STA. 18+00 TO 19+00	127.52	108.39	6.74	+101.65
STA. 19+00 TO 19+50	71.69	60.94	14.52	+46.42
STA. 19+50 TO 19+66	99.27	84.38	10.26	+74.12
STA. 19+66 TO 20+00	217.86	185.18	6.56	+178.62
STA. 20+00 TO 21+00	189.56	161.13	13.89	+147.24
STA. 21+00 TO 22+00	181.63	154.39	5.81	+148.58
STA. 22+00 TO 23+00	148.52	126.24	1.96	+124.28
STA. 23+00 TO 24+00	124.15	105.53	0.48	+105.05
STA. 24+00 TO 25+00	551.81	469.04	0.15	+468.89
STA. 25+00 TO 26+00	782.63	665.24	0.19	+665.05
STA. 26+00 TO 27+00	478.26	406.52	0.19	+406.33
STA. 27+00 TO 28+00	329.59	280.15	0.07	+280.08
STA. 28+00 TO 29+00	236.96	201.42	4.48	+196.94
STA. 29+00 TO 29+83	547.69	465.54	22.54	+443.00
STA. 29+83 TO 30+00	103.00	87.55	10.55	+77.00
STA. 30+00 TO 31+00	56.11	47.69	60.74	-13.05
STA. 31+00 TO 32+00	36.26	30.82	64.41	-33.59
STA. 32+00 TO 33+00	30.30	25.75	53.22	-27.47
STA. 33+00 TO 34+00	95.33	81.03	10.89	+70.14
STA. 34+00 TO 35+00	156.48	133.01	3.63	+129.38
TOTAL	4564.62	3879.94	291.28	+3588.66

HOT-MIX ASPHALT MIXTURE REQUIREMENTS

MIXTURE USE	DESIGN AIR VOIDS
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ROADWAY RECONSTRUCTION

HOT-MIX ASPHALT BINDER COURSE, IL-19, N90, 5/4"	4% @ 90
POLYMERIZED HOT-MIX ASPHALT BINDER COURSE, STONE MATRIX ASPHALT, N80, 2"	3.5% @ 80
POLYMERIZED HOT-MIX ASPHALT SURFACE COURSE, STONE MATRIX ASPHALT, N80, 2"	3.5% @ 80

SHOULDER RECONSTRUCTION

HOT-MIX ASPHALT SHOULDER, 9/4" (HMA BINDER IL-19MM)	2% @ 30
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DRIVEWAYS (COMMERCIAL ENTRANCE)

HOT-MIX ASPHALT BASE COURSE, 8" (HMA BINDER IL-19MM)	4% @ 50
HOT-MIX ASPHALT SURFACE COURSE, MIX "D", N50, 2" (IL-9.5MM)	4% @ 50

TEMPORARY PAVEMENT

TEMPORARY PAVEMENT, 2/4" (HMA BINDER IL-19MM)	4% @ 50
HOT-MIX ASPHALT SURFACE COURSE, MIX "D", N50, 1/2" (IL-9.5MM)	4% @ 50

NOTE:

THE UNIT WEIGHT USED TO CALCULATE ALL HOT-MIX ASPHALT QUANTITIES IS 112 LBS./SQ. YD./ IN.

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

FOR "PERCENT OF RAP" SEE DISTRICT ONE SPECIAL PROVISIONS.

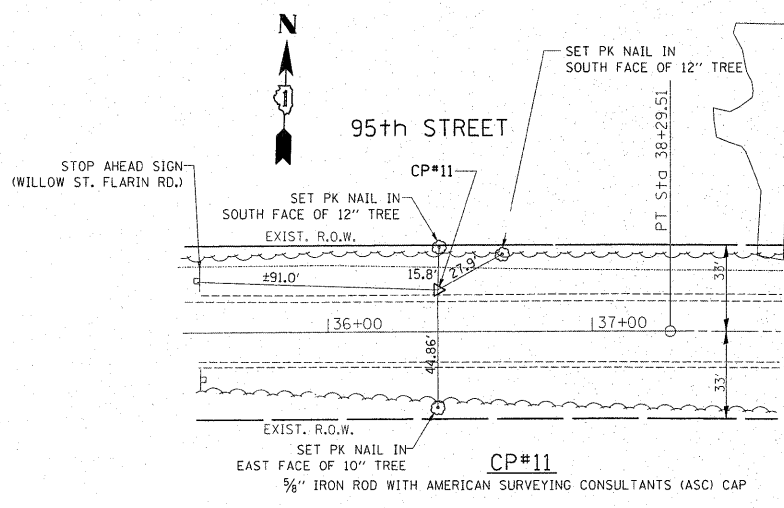
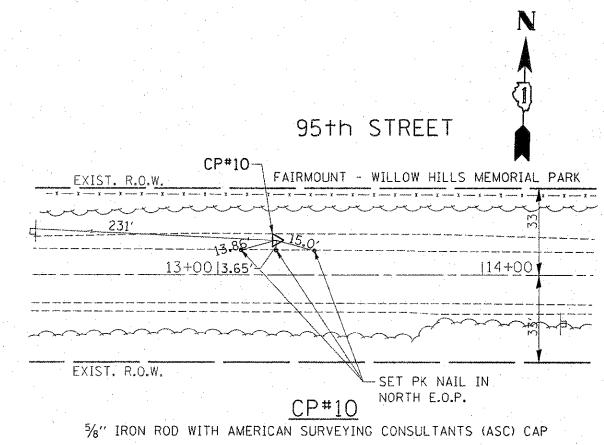
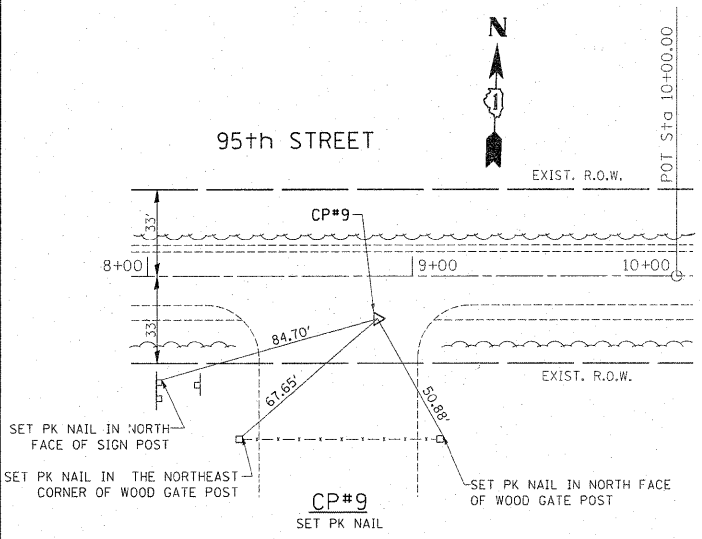
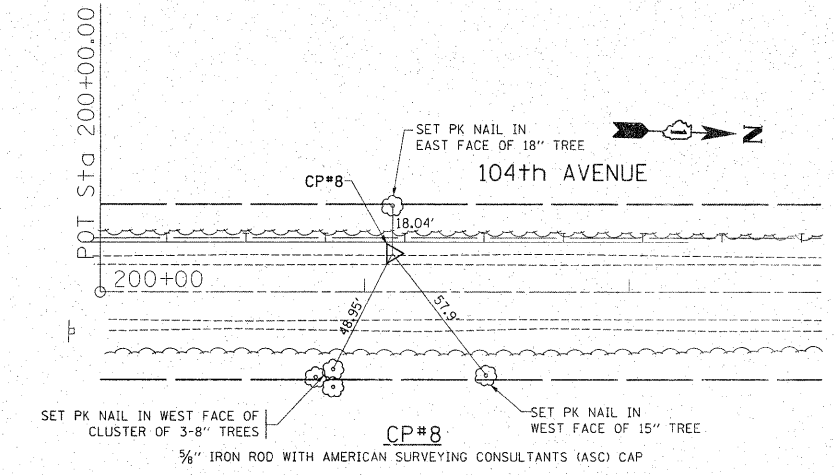
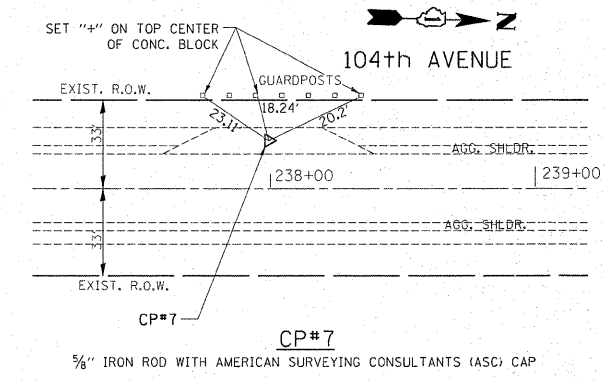
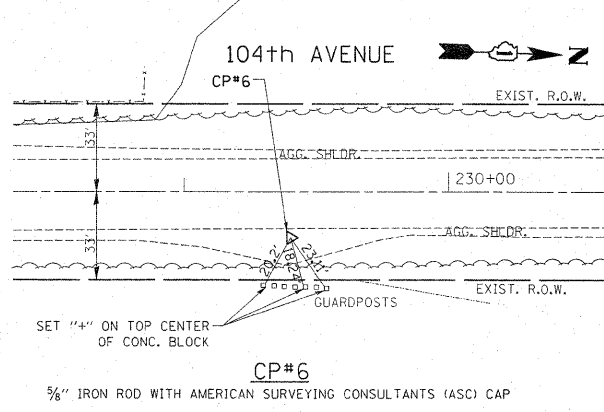
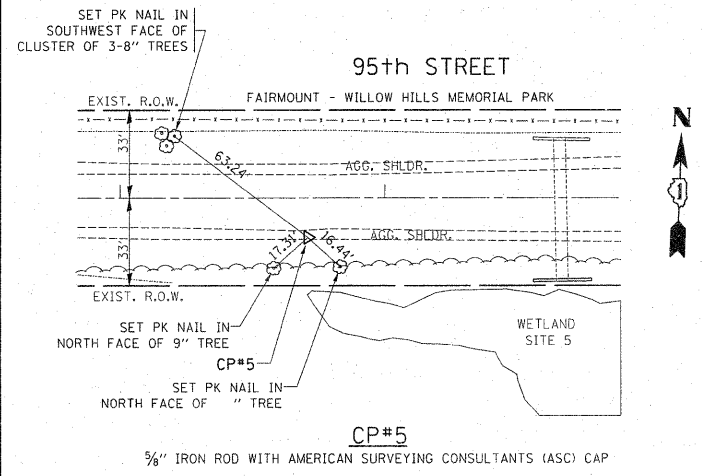
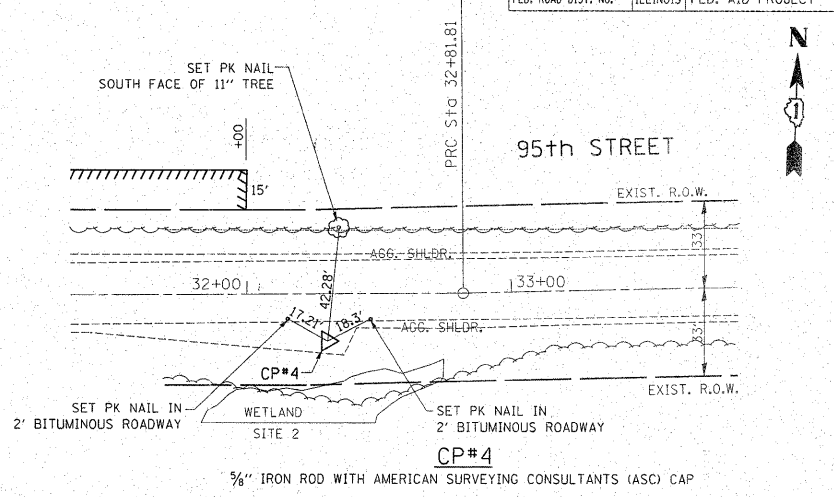
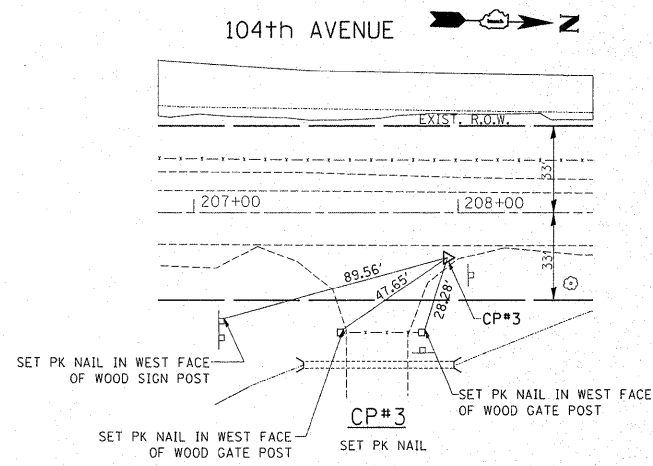
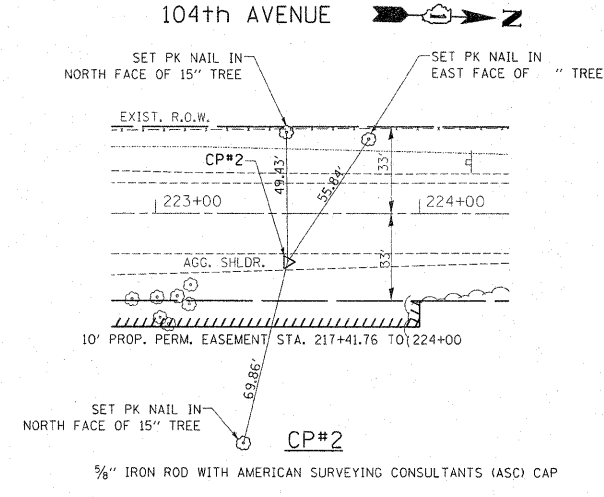
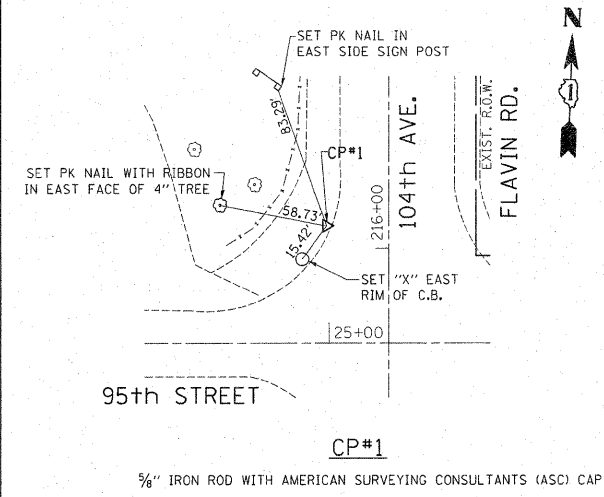
HOT-MIX ASPHALT BINDER COURSE, IL-19, N90, 5/4", POLYMERIZED HOT-MIX ASPHALT BINDER COURSE, STONE MATRIX ASPHALT, N80, 2" AND POLYMERIZED HOT-MIX ASPHALT SURFACE COURSE, STONE MATRIX ASPHALT, N80, 2" ARE COMPONENTS OF HOT-MIX ASPHALT PAVEMENT (FULL DEPTH), 9/4"

THE 5/4" HOT-MIX ASPHALT BINDER COURSE, IL-19, N90 LAYER SHOULD BE PLACED IN 2 LIFTS.

EARTHWORK SCHEDULE FOR 104TH AVE./ FLAVIN RD.

LOCATION	EARTH EXCAVATION	EARTH EXCAVATION ADJUSTED FOR SHRINKAGE (SHRINKAGE FACTOR) 15%	EMBANKMENT	EMBANKMENT BALANCE WASTE (+) OR SHORTAGE (-)
	CUBIC YARDS	CUBIC YARDS	CUBIC YARDS	CUBIC YARDS
STA. 207+00 TO 208+00	221.59	188.35	0.56	+187.79
STA. 208+00 TO 209+00	265.81	225.94	9.30	+216.64
STA. 209+00 TO 210+00	355.85	302.47	12.15	+290.32
STA. 210+00 TO 211+00	465.15	395.38	5.56	+389.82
STA. 211+00 TO 212+00	406.00	345.10	7.44	+337.66
STA. 212+00 TO 212+25	82.42	69.79	2.96	+66.83
STA. 212+25 TO 212+50	78.91	67.07	3.60	+63.47
STA. 212+50 TO 212+75	77.08	65.52	4.18	+61.34
STA. 212+75 TO 213+00	75.70	64.34	4.66	+59.68
STA. 213+00 TO 213+25	76.81	65.29	4.79	+60.50
STA. 213+25 TO 213+50	79.81	67.84	4.69	+63.15
STA. 213+50 TO 213+75	83.41	70.90	4.36	+66.54
STA. 213+75 TO 214+00	88.89	75.56	3.57	+71.99
STA. 214+00 TO 214+04	15.81	13.44	0.52	+12.92
STA. 214+04 TO 214+10	21.39	18.18	0.71	+17.47
STA. 214+10 TO 215+00	334.97	284.72	9.10	+275.62
STA. 215+00 TO 216+00	548.63	466.34	3.78	+462.56
STA. 216+00 TO 217+00	417.19	354.61	0.19	+354.42
STA. 217+00 TO 218+00	236.33	200.88	1.93	+198.95
STA. 218+00 TO 219+00	312.04	265.23	1.81	+263.42
STA. 219+00 TO 220+00	367.85	312.67	0.07	+312.60
STA. 220+00 TO 221+00	363.30	308.80	0	+308.80
STA. 221+00 TO 222+00	377.78	321.11	0.04	+321.07
STA. 222+00 TO 223+00	401.44	341.22	0.04	+341.18
STA. 223+00 TO 224+00	324.74	276.03	2.07	+273.96
TOTAL	6078.90	5166.78	88.08	+5078.70

FILE NAME =	USER NAME = steedpa	DESIGNED -	REVISED -	STATE OF ILLINOIS DEPARTMENT OF TRANSPORTATION	MIXTURE REQUIREMENT TABLE AND QUANTITY SCHEDULES 95th STREET @ 104th AVENUE/ FLAVIN ROAD	F.A.U. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.	
01\pwork\pwork\stedpa\d815915\p144499-Design.dgn		DRAWN -	REVISED -			1566	29 R-N-1	COOK	120	11	
PLOT SCALE = 50.0609' / 1" =		CHECKED -	REVISED -			CONTRACT NO. 62377					
PLOT DATE = 1/19/2012		DATE -	REVISED -			ILLINOIS FED. AID PROJECT					
						SCALE:	SHEET NO.	OF	SHEETS	STA.	TO STA.



REVISIONS	
NAME	DATE

ILLINOIS DEPARTMENT OF TRANSPORTATION
 ALIGNMENT AND TIES
 95TH ST. AT 104TH AVE.
 (FLAVIN RD.)

SCALE: VERT. NONE
 HORIZ. DATE 2/3/2011

DRAWN BY
 CHECKED BY

PLOT DATE = 2/3/2011
 FILE NAME = c:\pva\work\pva\temp\48159837\144499-plt-ATB.dgn
 PLOT SCALE = 53.4648 / IN.
 USER NAME = stereopa

BM 200, ELEV 706.23
 PLUG (POSSIBLE COUNTY MANAGEMENT) @ NW CORNER OF 95TH STREET AND 104TH AVENUE
 PLUS OR MINUS 50' N. OF LINE OF 95TH STREET AND PLUS OR MINUS 50' W. OF LINE
 OF 104TH AVENUE/ FLAVIN ROAD

BM 202, ELEV 707.25
 N.E. CORNER OF INVERTED R.R. RAIL AND THE N.E. CORNER OF FAIRMOUNT WILLOW
 HILLS MEMORIAL PARK.

BM 204, ELEV 700.59
 SET "□" ON THE TOP CENTER OF A 6' CONCRETE HEAD WALL FOR A 10" RCP @ THE
 S.E. CORNER OF THE CRAWDAD SLOUGH F.P. ENTRANCE AND 104TH AVENUE/ FLAVIN RD.

BM 206, ELEV 704.54
 SET "□" ON THE W. END OF THE 18" CONCRETE HEAD WALL ON THE S. SIDE
 OF 95TH STREET, PLUS OR MINUS 630' W. OF 104TH AVENUE/ FLAVIN ROAD.

BM 208, ELEV 711.27
 SET "□" ON THE E. SIDE OF EAST CONCRETE FENCE POST TO MAPLE LAKE EAST FOREST
 PRESERVES

BM 210, ELEV 724.42
 SET 60D NAIL IN THE TREE ON THE S. SIDE OF 95TH STREET AND OPPOSITE "STOP AHEAD"
 SIGN ON THE S. SIDE OF THE STREET

BM 201, ELEV 723.94
 SET 60D NAIL IN A 16 INCH TREE, PLUS OR MINUS 15' E. OF WOOD PICNIC TABLE,
 PLUS OR MINUS 750' N. OF 95TH STREET ON THE E. SIDE OF 104TH AVENUE/ FLAVIN RD.

BM 203, ELEV 663.23
 SET "□" ON S.E. CORNER OF 96" X 78" BOX CULVERT HEAD WALL, PLUS OR MINUS
 2200' N. OF 95TH STREET.

BM 205, ELEV 709.30
 SET 60D NAIL IN THE W. FACE OF A 16" TREE ON THE E. SIDE OF 104TH AVENUE/
 FLAVIN ROAD, PLUS OR MINUS 33' N. OF THE FIRST SPEED LIMIT SIGN (50 MPH SIGN),
 S. OF CRAWDAD SLOUGH, FOREST PRESERVE ENTRANCE.

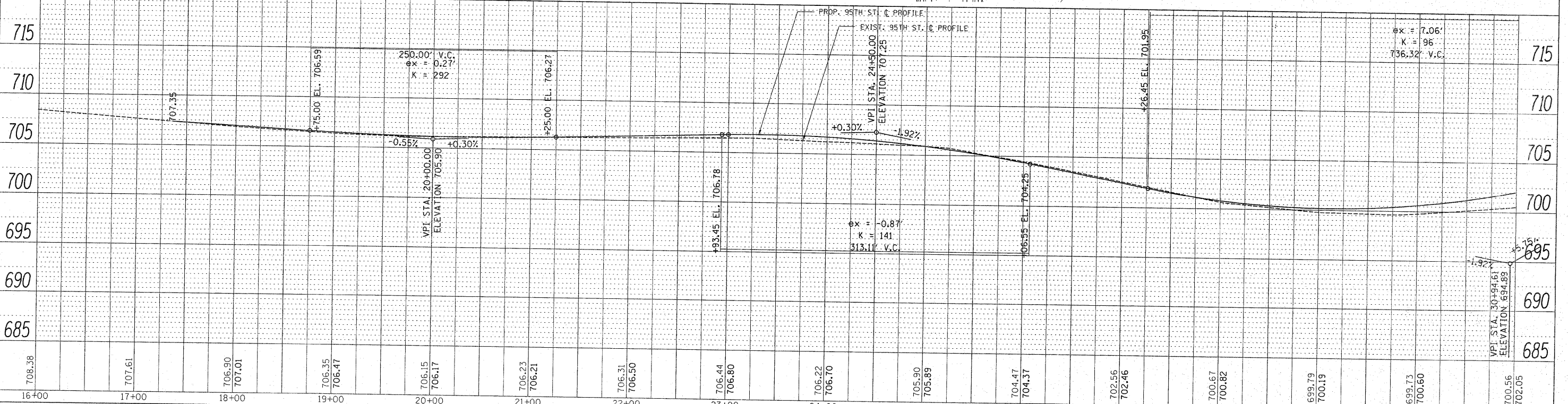
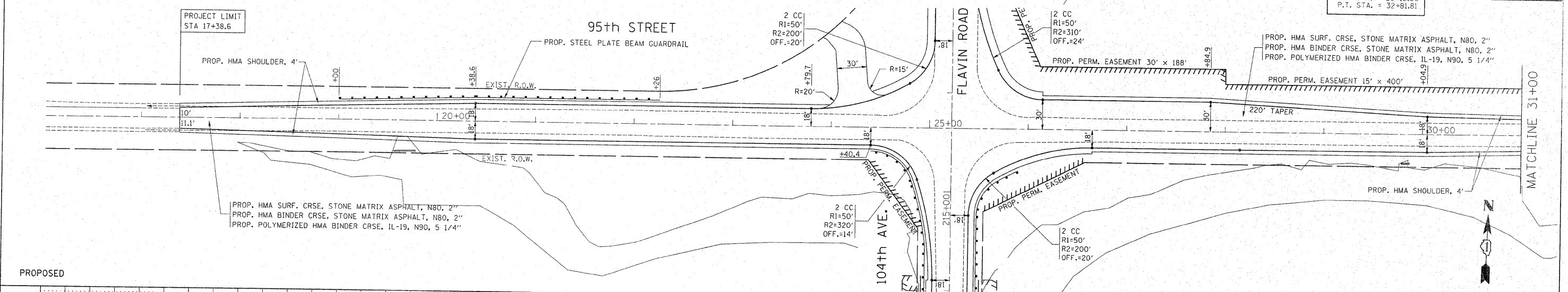
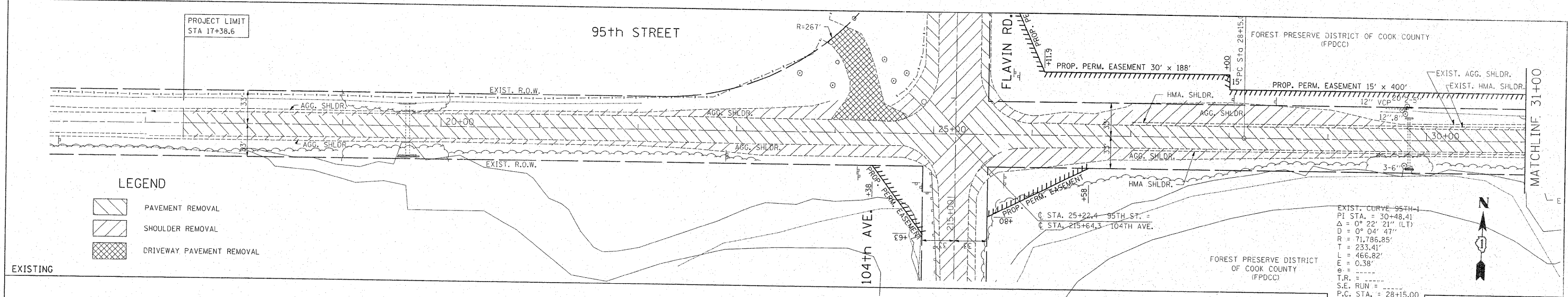
BM 207, ELEV 709.14
 SET 60D NAIL IN THE N. FACE OF THE 4" X 6" WOOD PANEL SIGN SAYING "STOP
 AHEAD (104TH AVENUE/ FLAVIN ROAD)

BM 209, ELEV 699.13
 SET "□" IN THE TOP CENTER OF N. HEADWALL ON 95TH STREET, PLUS OR MINUS 500' E.
 OF 104TH AVENUE/ FLAVIN ROAD

FILE NAME =	USER NAME = steedpa	DESIGNED -	REVISED -	STATE OF ILLINOIS DEPARTMENT OF TRANSPORTATION	BENCHMARK INFORMATION				F.A.U. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
c:\pwork\pwork\stedpa\d0159915\p144499-Design.dgn		DRAWN -	REVISED -		95th STREET @ 104th AVENUE/ FLAVIN ROAD	1566	29 R-N-1	COOK	120	13			
PLOT SCALE = 50.7684' / IN.		CHECKED -	REVISED -		SCALE:	SHEET NO.	OF SHEETS	STA.	TO STA.	CONTRACT NO. 62377			
PLOT DATE = 2/3/2011		DATE -	REVISED -		ILLINOIS FED. AID PROJECT								

DATE: _____ BY: _____
 SURVEYED _____
 PLOTTED _____
 NOTE BOOK _____
 NO. _____
 STRUCTURE NOTATION CHKD _____
 NO. _____

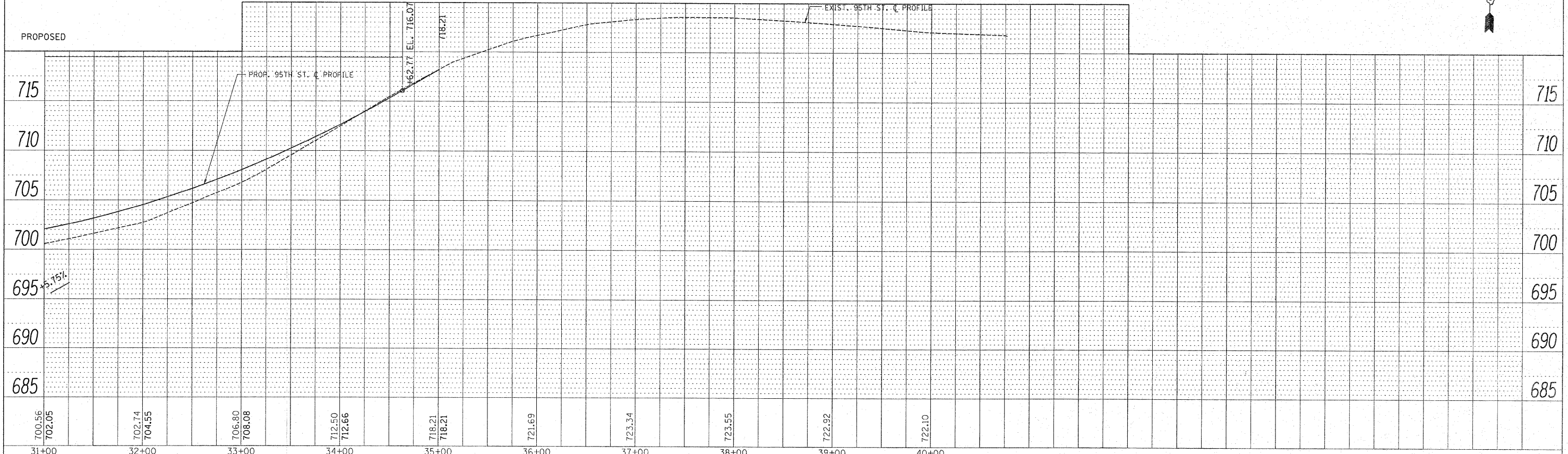
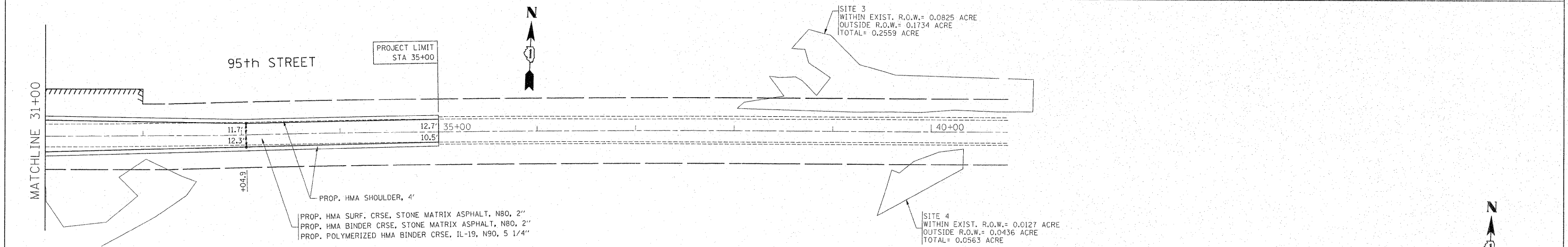
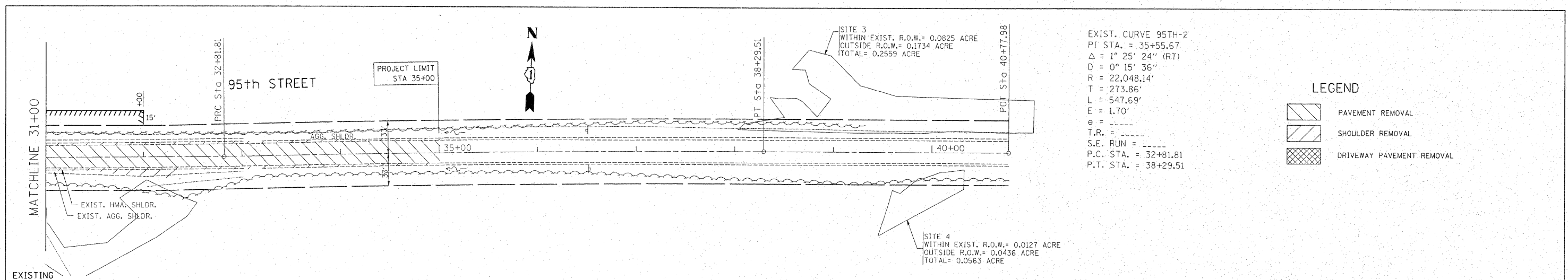
DATE: _____ BY: _____
 SURVEYED _____
 PLOTTED _____
 NOTE BOOK _____
 NO. _____
 STRUCTURE NOTATION CHKD _____
 NO. _____



FILE NAME =	USER NAME = steedpa	DESIGNED -	REVISED -	STATE OF ILLINOIS DEPARTMENT OF TRANSPORTATION		95th STREET @ 104th AVE. / FLAVIN ROAD EXIST. & PROP. ROADWAY PLAN		F.A.U. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
ct:\pw\work\pwsdot\steedpa\08159937\PI14449	-sht-plnprf.dgn	DRAWN -	REVISED -					1566	29R-N-1	COOK	120	14
	PLOT SCALE = 50.768' / IN.	CHECKED -	REVISED -								CONTRACT NO. 62377	
	PLOT DATE = 2/3/2011	DATE -	REVISED -								ILLINOIS FED. AID PROJECT	

PLAN
 SURVEYED BY: _____ DATE: _____
 CHECKED BY: _____
 NOTE BOOK NO. _____
 PLOT FILE NAME: _____

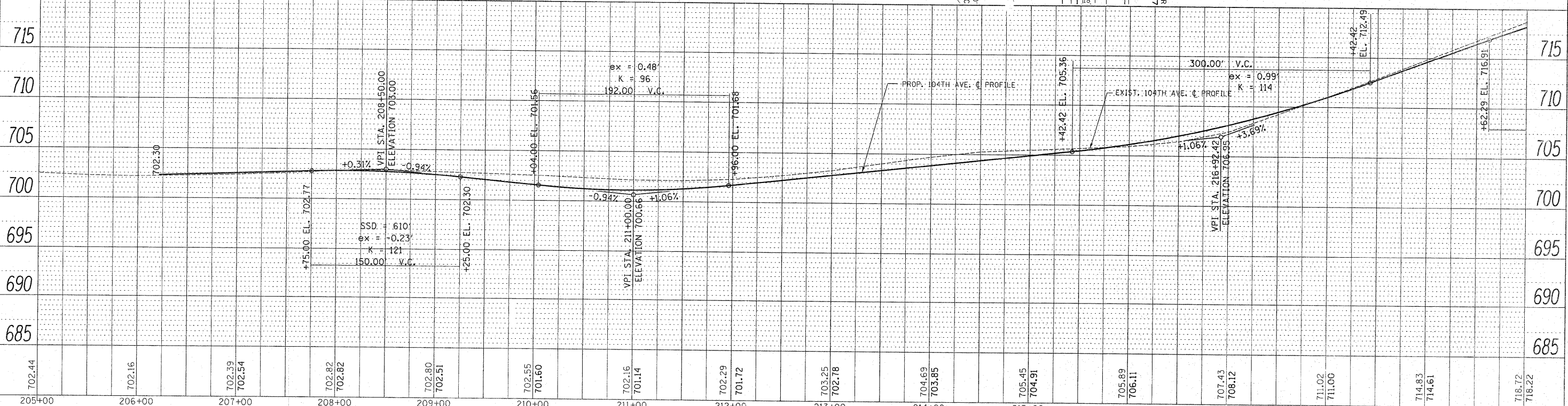
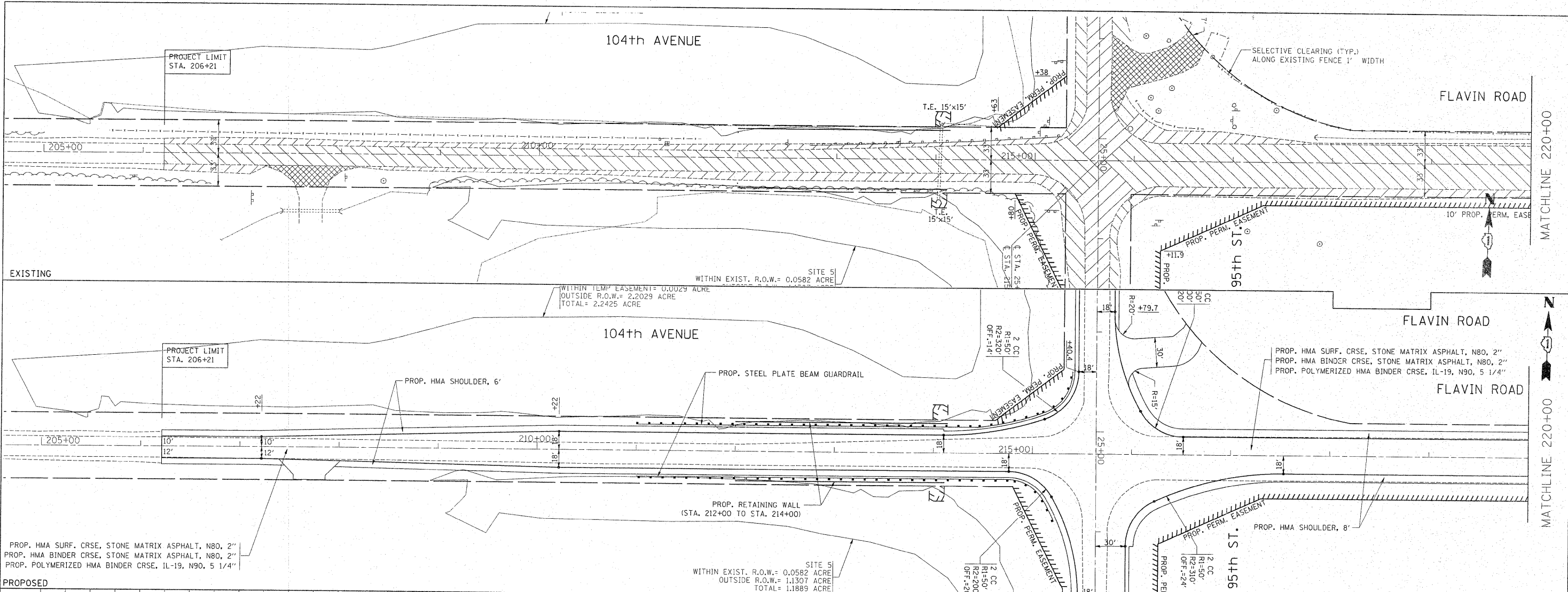
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 SURVEYED BY: _____ DATE: _____
 CHECKED BY: _____
 NOTE BOOK NO. _____
 PLOT FILE NAME: _____



FILE NAME = c:\pwork\pwork\dot\steedpa\d0159937\p14449	USER NAME = steedpa	DESIGNED -	REVISED -	STATE OF ILLINOIS DEPARTMENT OF TRANSPORTATION	95th STREET @ 104th AVE. / FLAVIN ROAD EXIST. & PROP. ROADWAY PLAN		F.A.U. RTE. 1566	SECTION 29R-N-1	COUNTY COOK	TOTAL SHEETS 120	SHEET NO. 15
	PLOT SCALE = 50.768' / IN.	CHECKED -	REVISED -		SCALE:	SHEET NO. OF SHEETS	STA. TO STA.	CONTRACT NO. 62377		ILLINOIS FED. AID PROJECT	
	PLOT DATE = 2/3/2011	DATE -	REVISED -								

PLAN	NO.	DATE
REVISIONS	BY	DATE
DESIGNED		
DRAWN		
CHECKED		
DATE		

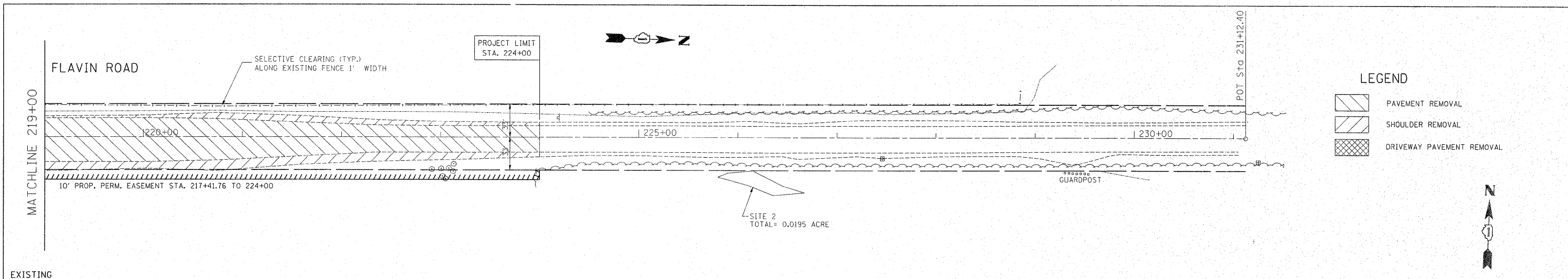
PROFILE	NO.	DATE
DESIGNED		
DRAWN		
CHECKED		
DATE		



FILE NAME =	USER NAME = steedpa	DESIGNED -	REVISED -	STATE OF ILLINOIS DEPARTMENT OF TRANSPORTATION				104th AVE. / FLAVIN ROAD @ 95th STREET EXIST. & PROP. ROADWAY PLAN				F.A.J. R.T.E.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.											
205+00	206+00	207+00	208+00	209+00	210+00	211+00	212+00	213+00	214+00	215+00	216+00	217+00	218+00	219+00	220+00	1566	29R-N-1	COOK	120	16							
SCALE:																	SHEET NO.		OF SHEETS		STA.		TO STA.		CONTRACT NO. 62377		
																									[ILLINOIS] FED. AID PROJECT		

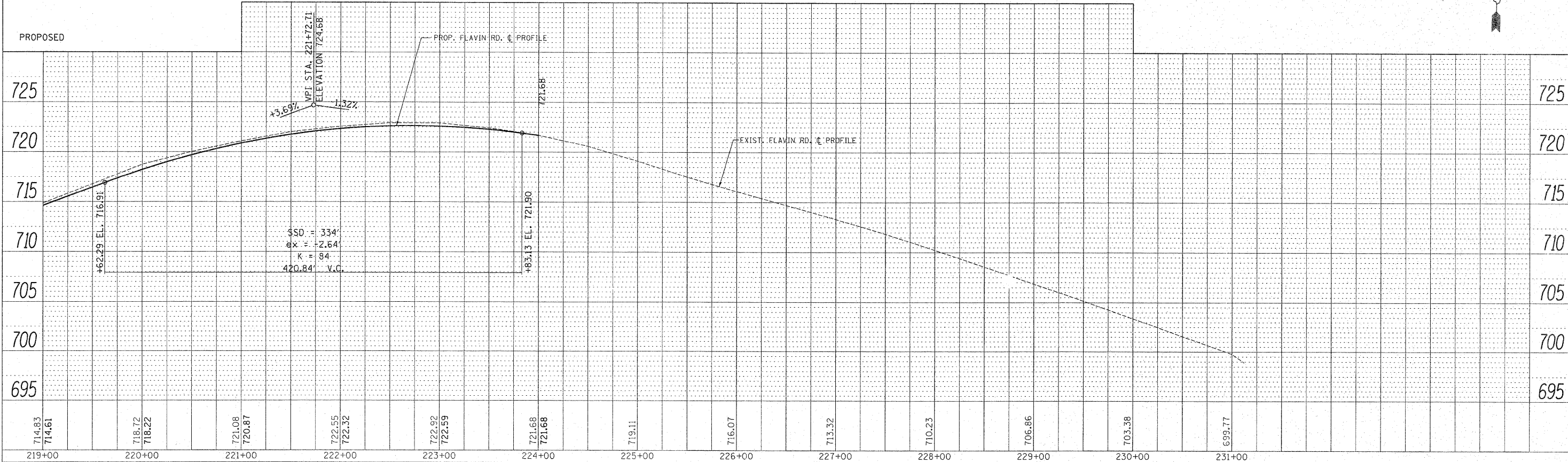
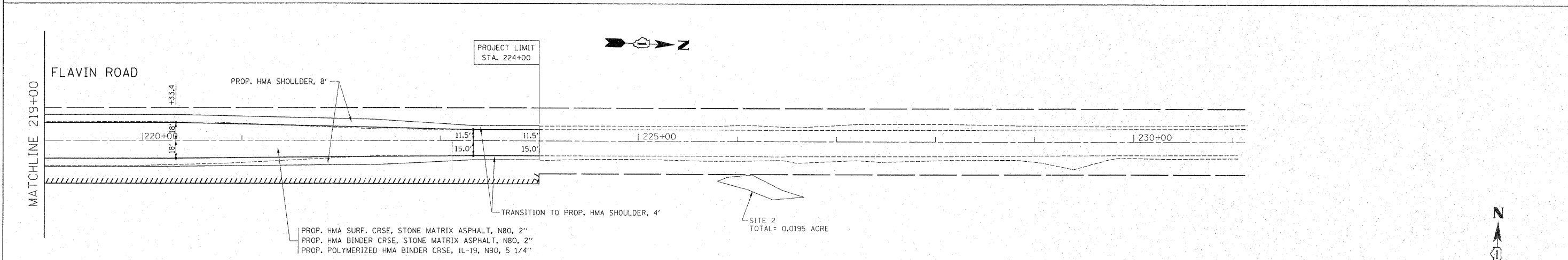
DATE	
BY	
PLAN	
SURVEYED	
NOTED	
GRADES CHECKED	
ALIGNED	
RT. OF WAY CHECKED	
PROP. FILE NAME	

DATE	
BY	
PROFILE	
SURVEYED	
NOTED	
GRADES CHECKED	
ALIGNED	
RT. OF WAY CHECKED	
PROP. FILE NAME	






LEGEND

	PAVEMENT REMOVAL
	SHOULDER REMOVAL
	DRIVEWAY PAVEMENT REMOVAL



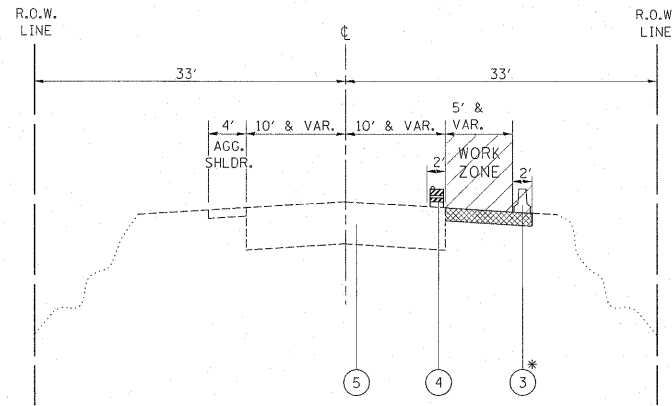
FILE NAME =	USER NAME = steedpa	DESIGNED -	REVISED -	STATE OF ILLINOIS DEPARTMENT OF TRANSPORTATION	104th AVE. / FLAVIN ROAD @ 95th STREET EXIST. & PROP. ROADWAY PLAN		F.A.U. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
c:\pwwork\pwwork\stedpa\d0159937\P14449	=sht-plnprf.dgn	DRAWN -	REVISED -				1566	29R-N-1	COOK	120	17
PLOT SCALE = 50.768' / IN.	CHECKED -	REVISED -	REVISED -		CONTRACT NO. 62377						
PLOT DATE = 2/3/2011	DATE -	REVISED -	REVISED -		ILLINOIS FED. AID PROJECT						
SCALE:		SHEET NO. OF SHEETS		STA. TO STA.							

LEGEND

-  PAVEMENT REMOVAL
-  TEMPORARY PAVEMENT
-  TRAFFIC LANE

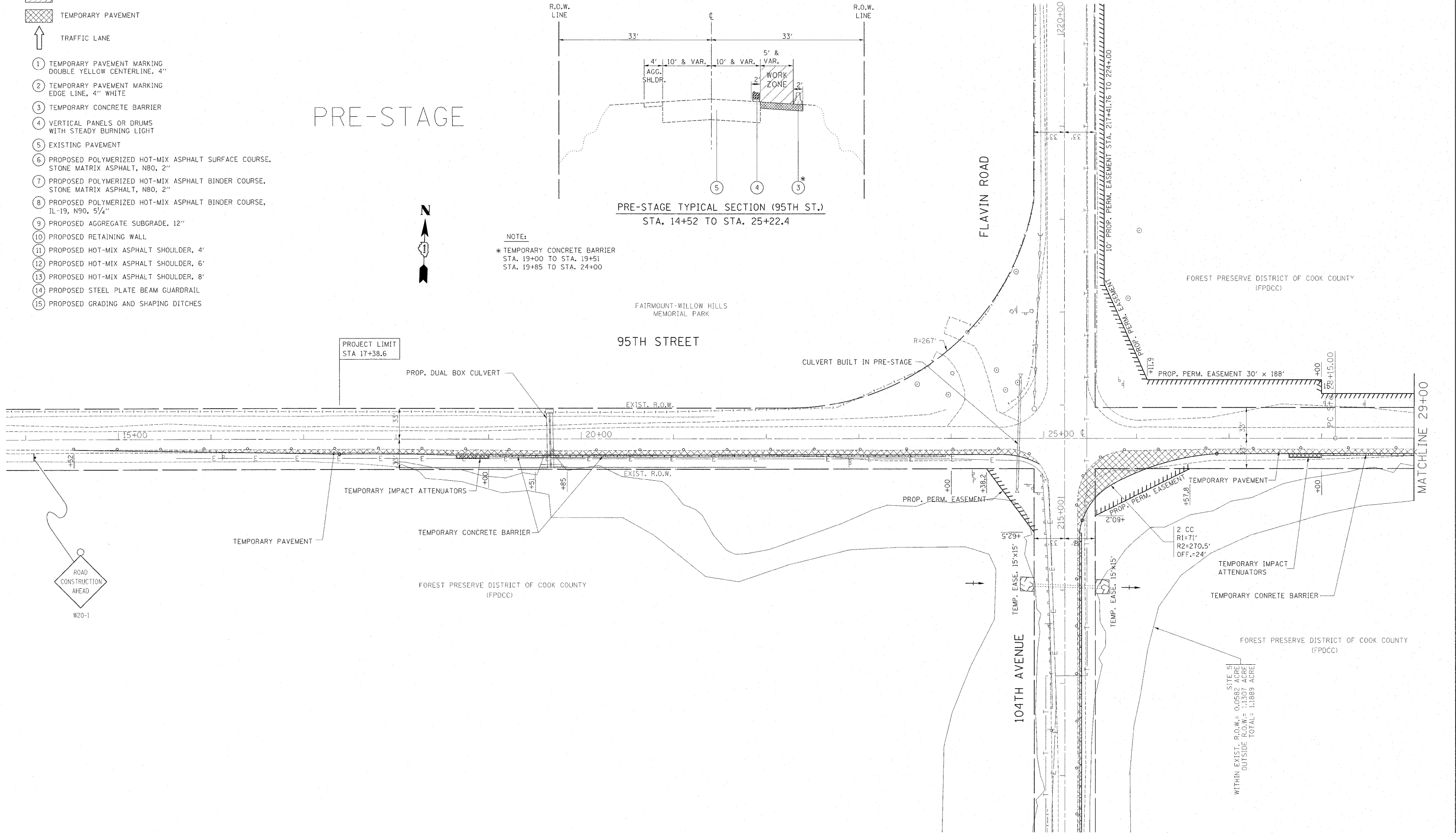
- ① TEMPORARY PAVEMENT MARKING DOUBLE YELLOW CENTERLINE, 4"
- ② TEMPORARY PAVEMENT MARKING EDGE LINE, 4" WHITE
- ③ TEMPORARY CONCRETE BARRIER
- ④ VERTICAL PANELS OR DRUMS WITH STEADY BURNING LIGHT
- ⑤ EXISTING PAVEMENT
- ⑥ PROPOSED POLYMERIZED HOT-MIX ASPHALT SURFACE COURSE, STONE MATRIX ASPHALT, N80, 2"
- ⑦ PROPOSED POLYMERIZED HOT-MIX ASPHALT BINDER COURSE, STONE MATRIX ASPHALT, N80, 2"
- ⑧ PROPOSED POLYMERIZED HOT-MIX ASPHALT BINDER COURSE, IL-19, N90, 5/4"
- ⑨ PROPOSED AGGREGATE SUBGRADE, 12"
- ⑩ PROPOSED RETAINING WALL
- ⑪ PROPOSED HOT-MIX ASPHALT SHOULDER, 4'
- ⑫ PROPOSED HOT-MIX ASPHALT SHOULDER, 6'
- ⑬ PROPOSED HOT-MIX ASPHALT SHOULDER, 8'
- ⑭ PROPOSED STEEL PLATE BEAM GUARDRAIL
- ⑮ PROPOSED GRADING AND SHAPING DITCHES

PRE-STAGE



PRE-STAGE TYPICAL SECTION (95TH ST.)
STA. 14+52 TO STA. 25+22.4

NOTE:
* TEMPORARY CONCRETE BARRIER
STA. 19+00 TO STA. 19+51
STA. 19+85 TO STA. 24+00



STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

SUGGESTED STAGING AND TRAFFIC CONTROL PLAN - PRE-STAGE
95th STREET @ 104th AVENUE / FLAVIN ROAD




FILE NAME =	USER NAME = steedpa	DESIGNED -	REVISED -
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	PLOT DATE = 12/6/2011	DATE -	REVISED -

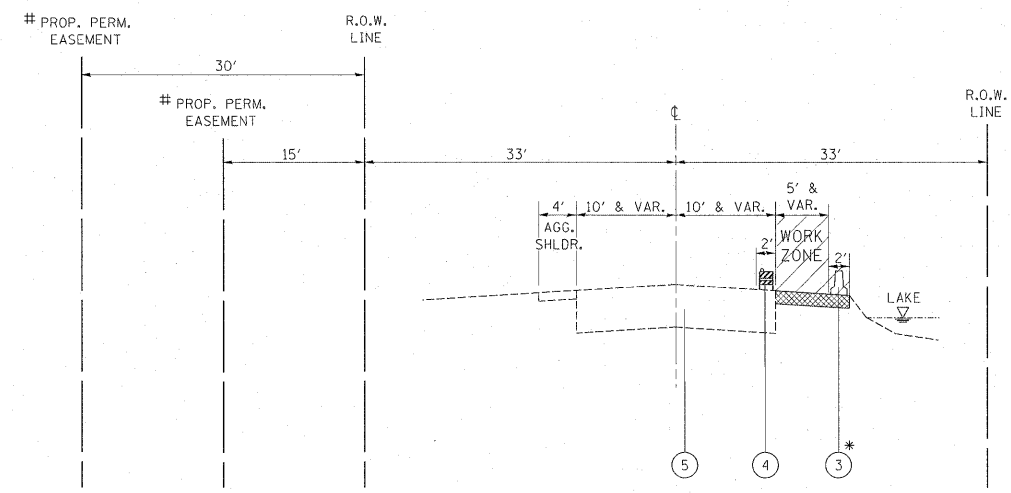
SCALE: SHEET NO. OF SHEETS STA. TO STA.

F.A.U. RTE. 1566	SECTION 29 R-N-1	COUNTY COOK	TOTAL SHEETS 120	SHEET NO. 18
CONTRACT NO. 62377				
ILLINOIS FED. AID PROJECT				

SITE 51
WITHIN EXIST. R.O.W. = 0.0582 ACRE
OUTSIDE R.O.W. = 1.1307 ACRE
TOTAL = 1.1889 ACRE

LEGEND

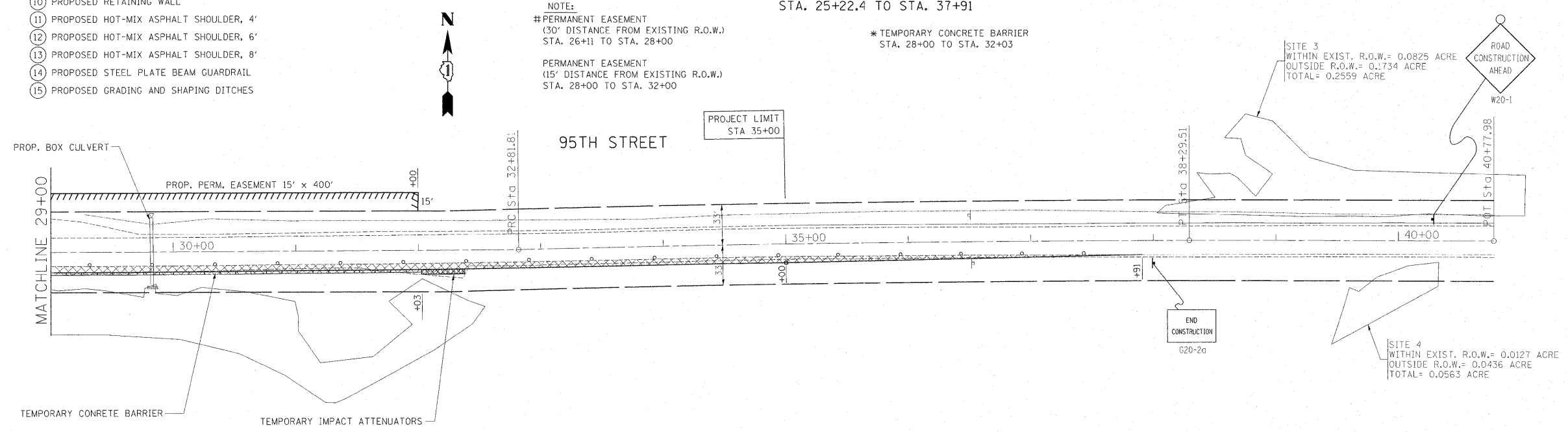
-  PAVEMENT REMOVAL
-  TEMPORARY PAVEMENT
-  TRAFFIC LANE
- ① TEMPORARY PAVEMENT MARKING
DOUBLE YELLOW CENTERLINE, 4"
- ② TEMPORARY PAVEMENT MARKING
EDGE LINE, 4" WHITE
- ③ TEMPORARY CONCRETE BARRIER
- ④ VERTICAL PANELS OR DRUMS
WITH STEADY BURNING LIGHT
- ⑤ EXISTING PAVEMENT
- ⑥ PROPOSED POLYMERIZED HOT-MIX ASPHALT SURFACE COURSE,
STONE MATRIX ASPHALT, N80, 2"
- ⑦ PROPOSED POLYMERIZED HOT-MIX ASPHALT BINDER COURSE,
STONE MATRIX ASPHALT, N80, 2"
- ⑧ PROPOSED POLYMERIZED HOT-MIX ASPHALT BINDER COURSE,
1L-19, N90, 5/4"
- ⑨ PROPOSED AGGREGATE SUBGRADE, 12"
- ⑩ PROPOSED RETAINING WALL
- ⑪ PROPOSED HOT-MIX ASPHALT SHOULDER, 4'
- ⑫ PROPOSED HOT-MIX ASPHALT SHOULDER, 6'
- ⑬ PROPOSED HOT-MIX ASPHALT SHOULDER, 8'
- ⑭ PROPOSED STEEL PLATE BEAM GUARDRAIL
- ⑮ PROPOSED GRADING AND SHAPING DITCHES



**PRE-STAGE TYPICAL SECTION (95TH ST.)
STA. 25+22.4 TO STA. 37+91**

NOTE:
 # PERMANENT EASEMENT
 (30' DISTANCE FROM EXISTING R.O.W.)
 STA. 26+11 TO STA. 28+00
 * TEMPORARY CONCRETE BARRIER
 STA. 28+00 TO STA. 32+03
 PERMANENT EASEMENT
 (15' DISTANCE FROM EXISTING R.O.W.)
 STA. 28+00 TO STA. 32+00

PRE-STAGE






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PLOT SCALE = 50.0000' / in.		CHECKED -	REVISED -
PLOT DATE = 12/6/2011		DATE -	REVISED -

**STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION**

**SUGGESTED STAGING AND TRAFFIC CONTROL PLAN - PRE-STAGE
95th STREET @ 104th AVENUE / FLAVIN ROAD**

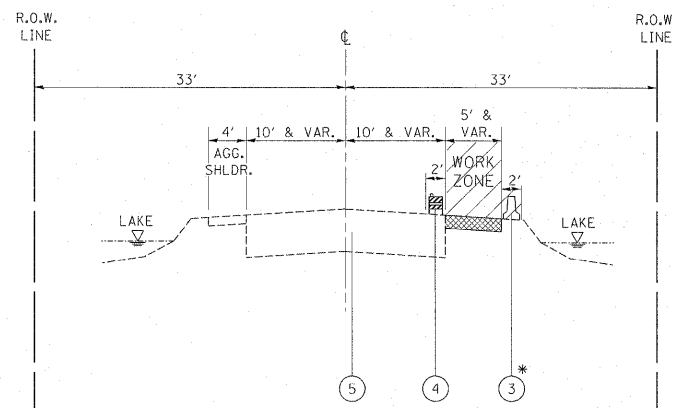
F.A.U. RTE. 1566	SECTION 29 R-N-1	COUNTY COOK	TOTAL SHEETS 120	SHEET NO. 19
CONTRACT NO. 62377				
ILLINOIS FED. AID PROJECT				

LEGEND

-  PAVEMENT REMOVAL
-  TEMPORARY PAVEMENT
-  TRAFFIC LANE

- 1 TEMPORARY PAVEMENT MARKING DOUBLE YELLOW CENTERLINE, 4"
- 2 TEMPORARY PAVEMENT MARKING EDGE LINE, 4" WHITE
- 3 TEMPORARY CONCRETE BARRIER
- 4 VERTICAL PANELS OR DRUMS WITH STEADY BURNING LIGHT
- 5 EXISTING PAVEMENT
- 6 PROPOSED POLYMERIZED HOT-MIX ASPHALT SURFACE COURSE, STONE MATRIX ASPHALT, N80, 2"
- 7 PROPOSED POLYMERIZED HOT-MIX ASPHALT BINDER COURSE, STONE MATRIX ASPHALT, N80, 2"
- 8 PROPOSED POLYMERIZED HOT-MIX ASPHALT BINDER COURSE, IL-19, N90, 5/4"
- 9 PROPOSED AGGREGATE SUBGRADE, 12"
- 10 PROPOSED RETAINING WALL
- 11 PROPOSED HOT-MIX ASPHALT SHOULDER, 4'
- 12 PROPOSED HOT-MIX ASPHALT SHOULDER, 6'
- 13 PROPOSED HOT-MIX ASPHALT SHOULDER, 8'
- 14 PROPOSED STEEL PLATE BEAM GUARDRAIL
- 15 PROPOSED GRADING AND SHAPING DITCHES

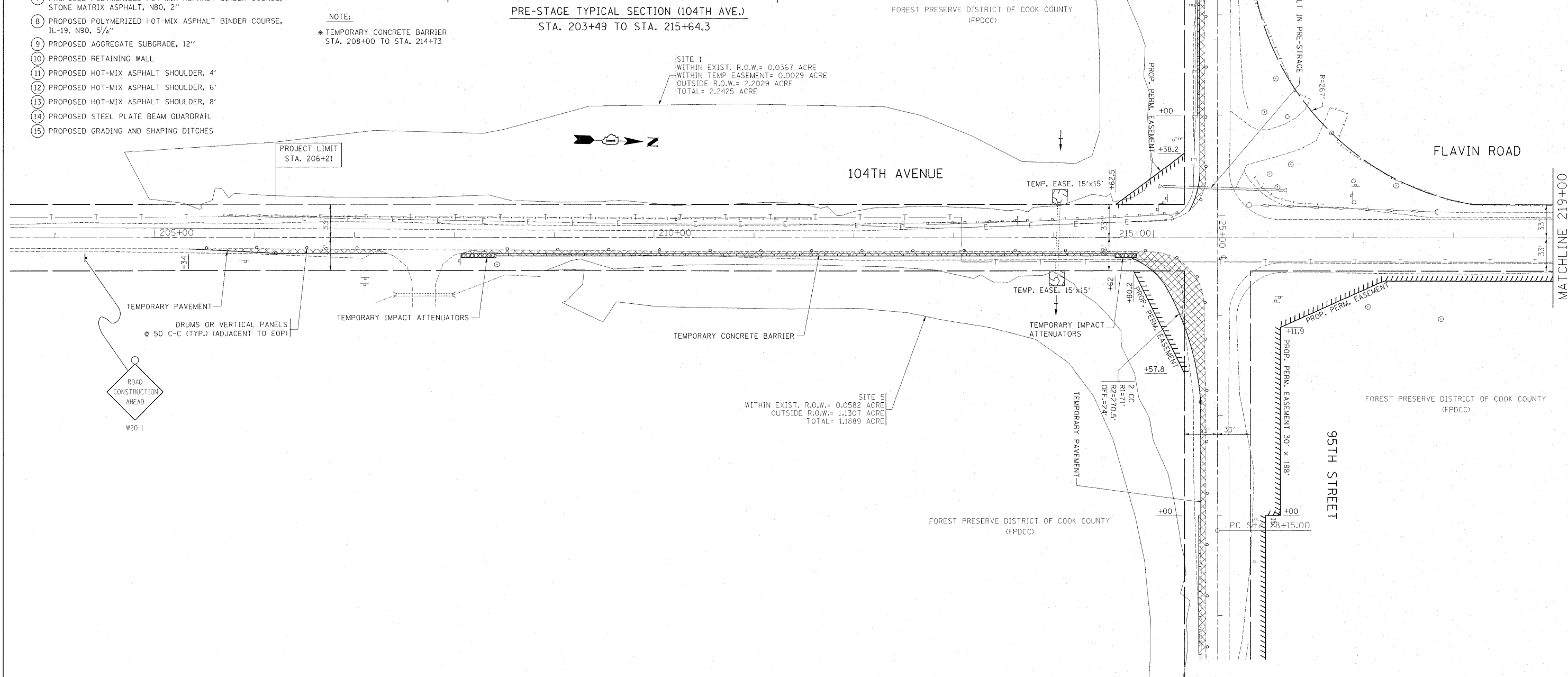
PRE-STAGE



NOTE:
* TEMPORARY CONCRETE BARRIER STA. 208+00 TO STA. 214+73

**PRE-STAGE TYPICAL SECTION (104TH AVE.)
STA. 203+49 TO STA. 215+64.3**

SITE 1
WITHIN EXIST. R.O.W.= 0.0367 ACRE
WITHIN TEMP EASEMENT= 0.0029 ACRE
OUTSIDE R.O.W.= 2.2029 ACRE
TOTAL= 2.2425 ACRE



SITE 51
WITHIN EXIST. R.O.W.= 0.0582 ACRE
OUTSIDE R.O.W.= 1.1307 ACRE
TOTAL= 1.1889 ACRE

FILE NAME =	USER NAME = steedpa	DESIGNED -	REVISED -
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PLOT DATE = 12/6/2011		DATE -	REVISED -




**STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION**

**SUGGESTED STAGING AND TRAFFIC CONTROL PLAN - PRE-STAGE
95th STREET @ 104th AVENUE / FLAVIN ROAD**

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

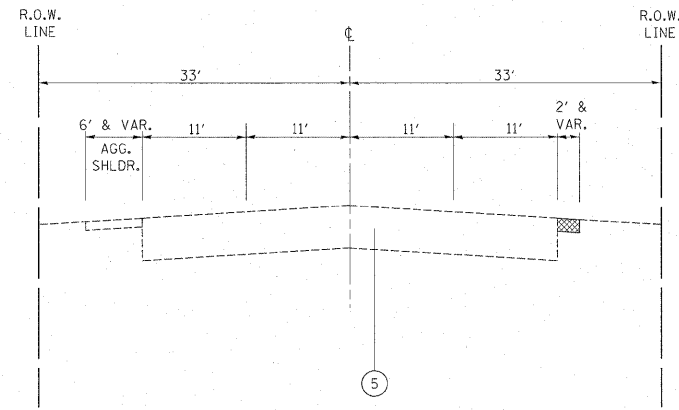
F.A.U. RTE. 1566	SECTION 29 R-N-1	COUNTY COOK	TOTAL SHEETS 120	SHEET NO. 20
CONTRACT NO. 62377				
ILLINOIS FED. AID PROJECT				

LEGEND

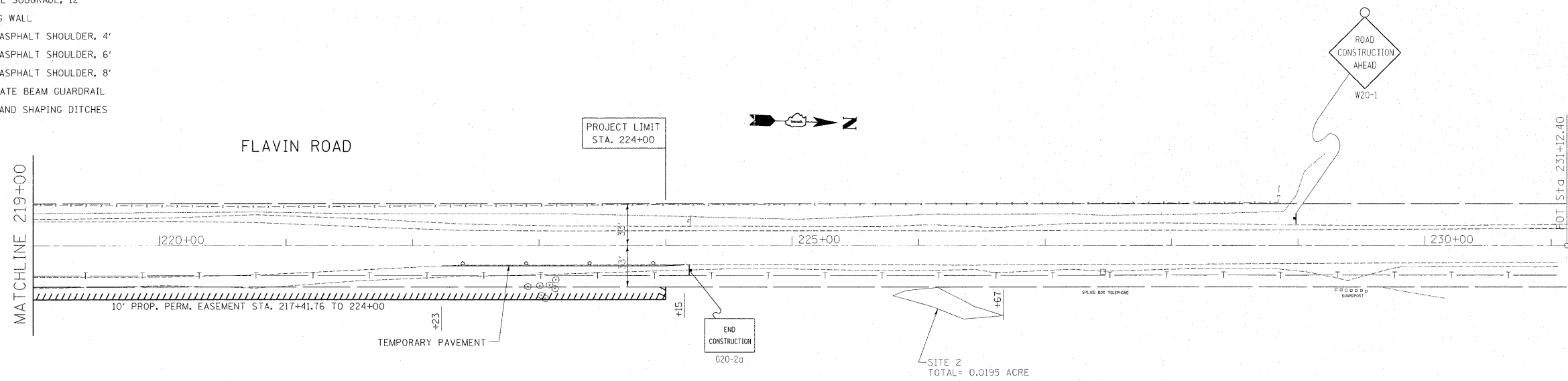
-  PAVEMENT REMOVAL
-  TEMPORARY PAVEMENT
-  TRAFFIC LANE

- ① TEMPORARY PAVEMENT MARKING
DOUBLE YELLOW CENTERLINE, 4"
- ② TEMPORARY PAVEMENT MARKING
EDGE LINE, 4" WHITE
- ③ TEMPORARY CONCRETE BARRIER
- ④ VERTICAL PANELS OR DRUMS
WITH STEADY BURNING LIGHT
- ⑤ EXISTING PAVEMENT
- ⑥ PROPOSED POLYMERIZED HOT-MIX ASPHALT SURFACE COURSE,
STONE MATRIX ASPHALT, N80, 2"
- ⑦ PROPOSED POLYMERIZED HOT-MIX ASPHALT BINDER COURSE,
STONE MATRIX ASPHALT, N80, 2"
- ⑧ PROPOSED POLYMERIZED HOT-MIX ASPHALT BINDER COURSE,
IL-19, N90, 5/4"
- ⑨ PROPOSED AGGREGATE SUBGRADE, 12"
- ⑩ PROPOSED RETAINING WALL
- ⑪ PROPOSED HOT-MIX ASPHALT SHOULDER, 4'
- ⑫ PROPOSED HOT-MIX ASPHALT SHOULDER, 6'
- ⑬ PROPOSED HOT-MIX ASPHALT SHOULDER, 8'
- ⑭ PROPOSED STEEL PLATE BEAM GUARDRAIL
- ⑮ PROPOSED GRADING AND SHAPING DITCHES

PRE-STAGE



PRE-STAGE TYPICAL SECTION (FLAVIN RD.)
STA. 215+64.3 TO STA. 226+67



FILE NAME =	USER NAME = steedpa	DESIGNED -	REVISED -
ct:\pw\work\pwwid\stedpa\d0159915\p14499-Design.dgn		DRAWN -	REVISED -
PLOT SCALE = 50.0000' / in.		CHECKED -	REVISED -
PLOT DATE = 12/6/2011		DATE -	REVISED -




**STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION**

SUGGESTED STAGING AND TRAFFIC CONTROL PLAN - PRE-STAGE
95th STREET @ 104th AVENUE / FLAVIN ROAD

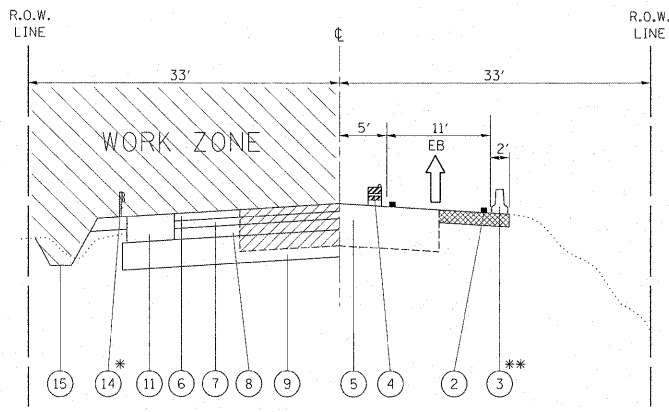
SCALE: SHEET NO. OF SHEETS STA. TO STA.

F.A.U. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
1566	29 R-N-1	COOK	120	21
CONTRACT NO. 62377				
ILLINOIS FED. AID PROJECT				

LEGEND

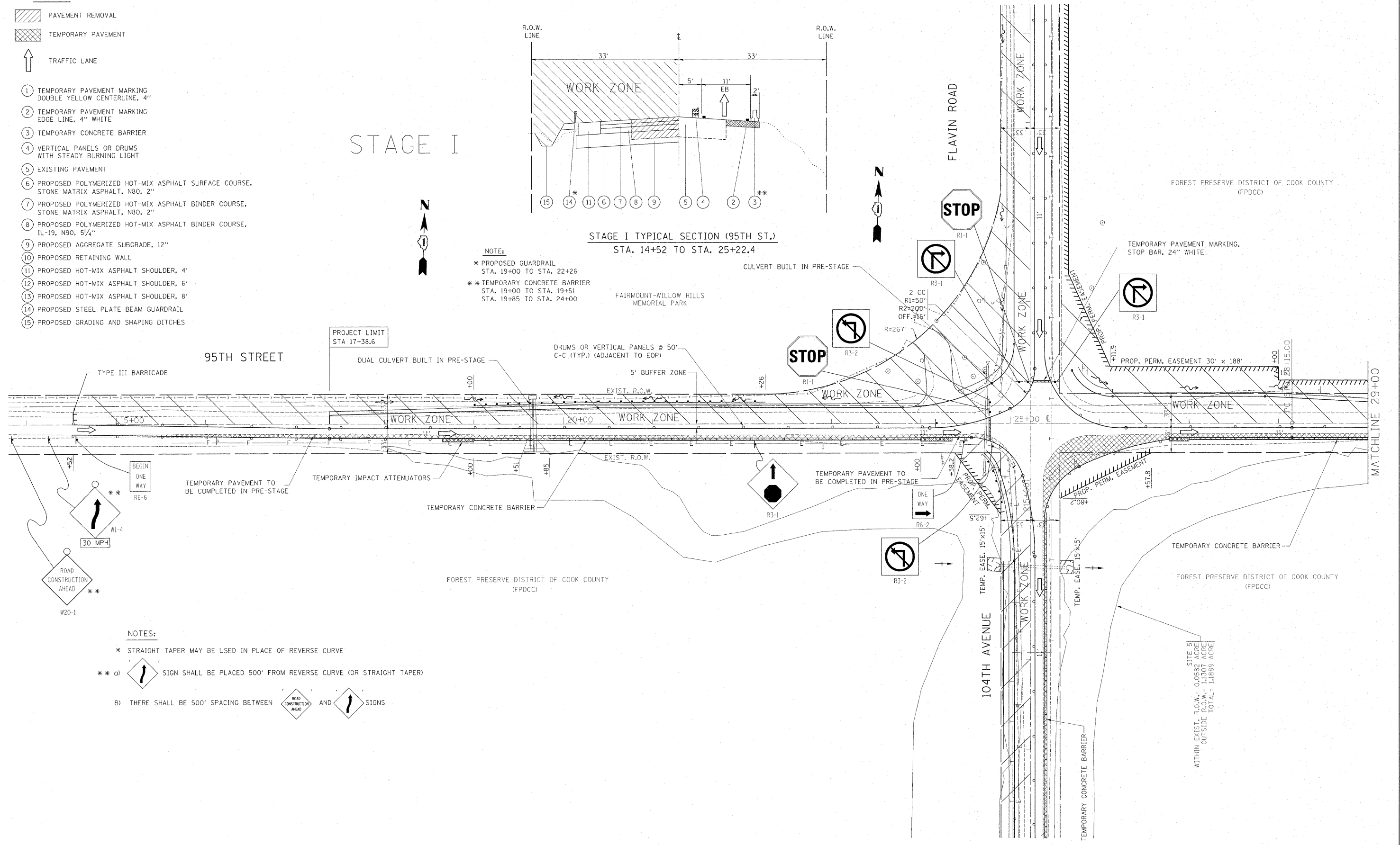
-  PAVEMENT REMOVAL
-  TEMPORARY PAVEMENT
-  TRAFFIC LANE
- ① TEMPORARY PAVEMENT MARKING
DOUBLE YELLOW CENTERLINE, 4"
- ② TEMPORARY PAVEMENT MARKING
EDGE LINE, 4" WHITE
- ③ TEMPORARY CONCRETE BARRIER
- ④ VERTICAL PANELS OR DRUMS
WITH STEADY BURNING LIGHT
- ⑤ EXISTING PAVEMENT
- ⑥ PROPOSED POLYMERIZED HOT-MIX ASPHALT SURFACE COURSE,
STONE MATRIX ASPHALT, N80, 2"
- ⑦ PROPOSED POLYMERIZED HOT-MIX ASPHALT BINDER COURSE,
STONE MATRIX ASPHALT, N80, 2"
- ⑧ PROPOSED POLYMERIZED HOT-MIX ASPHALT BINDER COURSE,
IL-19, N90, 5/4"
- ⑨ PROPOSED AGGREGATE SUBGRADE, 12"
- ⑩ PROPOSED RETAINING WALL
- ⑪ PROPOSED HOT-MIX ASPHALT SHOULDER, 4'
- ⑫ PROPOSED HOT-MIX ASPHALT SHOULDER, 6'
- ⑬ PROPOSED HOT-MIX ASPHALT SHOULDER, 8'
- ⑭ PROPOSED STEEL PLATE BEAM GUARDRAIL
- ⑮ PROPOSED GRADING AND SHAPING DITCHES




STAGE I



**STAGE I TYPICAL SECTION (95TH ST.)
STA. 14+52 TO STA. 25+22.4**

- NOTE:**
- * PROPOSED GUARDRAIL
STA. 19+00 TO STA. 22+26
 - ** TEMPORARY CONCRETE BARRIER
STA. 19+00 TO STA. 19+51
STA. 19+85 TO STA. 24+00



- NOTES:**
- * STRAIGHT TAPER MAY BE USED IN PLACE OF REVERSE CURVE
 - ** a)  SIGN SHALL BE PLACED 500' FROM REVERSE CURVE (OR STRAIGHT TAPER)
 - b) THERE SHALL BE 500' SPACING BETWEEN  AND  SIGNS

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PLOT DATE = 12/6/2011		DATE -	REVISED -

**STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION**




SUGGESTED STAGING AND TRAFFIC CONTROL PLAN - STAGE I
95th STREET @ 104th AVENUE / FLAVIN ROAD

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

F.A.U. RTE. 1566	SECTION 29 R-N-1	COUNTY COOK	TOTAL SHEETS 120	SHEET NO. 22
			CONTRACT NO. 62377	
ILLINOIS FED. AID PROJECT				

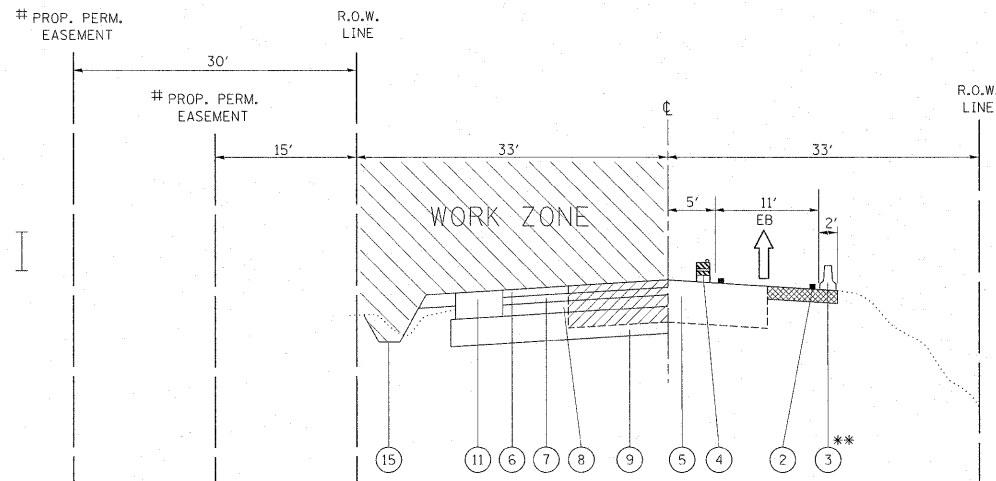
SITE 5
WITHIN EXIST. R.O.W. = 0.0582 ACRE
OUTSIDE R.O.W. = 1.1307 ACRE
TOTAL = 1.1889 ACRE

LEGEND

-  PAVEMENT REMOVAL
-  TEMPORARY PAVEMENT
-  TRAFFIC LANE

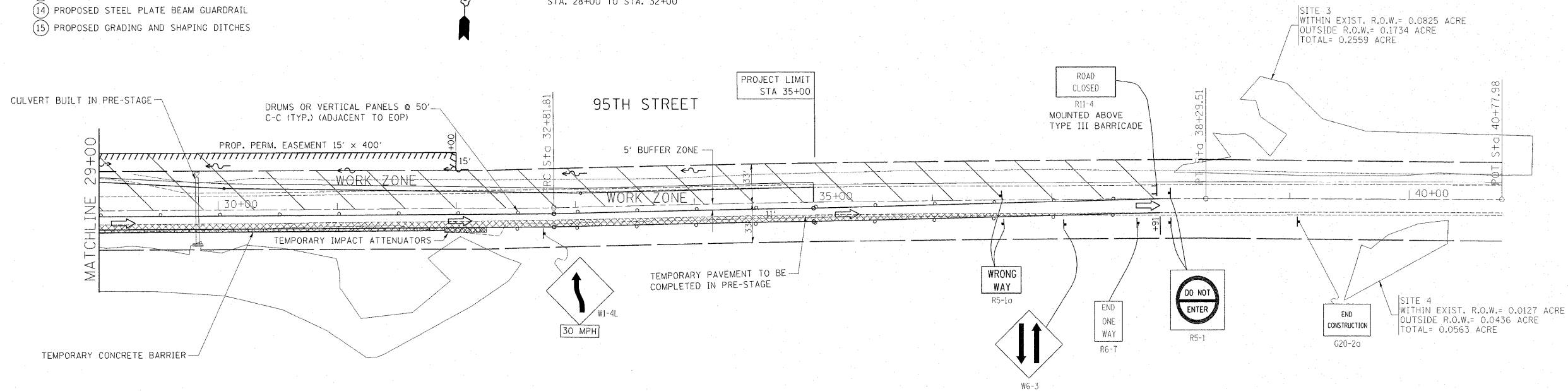
- 1 TEMPORARY PAVEMENT MARKING DOUBLE YELLOW CENTERLINE, 4"
- 2 TEMPORARY PAVEMENT MARKING EDGE LINE, 4" WHITE
- 3 TEMPORARY CONCRETE BARRIER
- 4 VERTICAL PANELS OR DRUMS WITH STEADY BURNING LIGHT
- 5 EXISTING PAVEMENT
- 6 PROPOSED POLYMERIZED HOT-MIX ASPHALT SURFACE COURSE, STONE MATRIX ASPHALT, N80, 2"
- 7 PROPOSED POLYMERIZED HOT-MIX ASPHALT BINDER COURSE, STONE MATRIX ASPHALT, N80, 2"
- 8 PROPOSED POLYMERIZED HOT-MIX ASPHALT BINDER COURSE, IL-19, N90, 5/4"
- 9 PROPOSED AGGREGATE SUBGRADE, 12"
- 10 PROPOSED RETAINING WALL
- 11 PROPOSED HOT-MIX ASPHALT SHOULDER, 4'
- 12 PROPOSED HOT-MIX ASPHALT SHOULDER, 6'
- 13 PROPOSED HOT-MIX ASPHALT SHOULDER, 8'
- 14 PROPOSED STEEL PLATE BEAM GUARDRAIL
- 15 PROPOSED GRADING AND SHAPING DITCHES

STAGE I



STAGE I TYPICAL SECTION (95TH ST.)
STA. 25+22.4 TO STA. 37+91

NOTE:
PERMANENT EASEMENT (30' DISTANCE FROM EXISTING R.O.W.) STA. 26+11 TO STA. 28+00
PERMANENT EASEMENT (15' DISTANCE FROM EXISTING R.O.W.) STA. 28+00 TO STA. 32+00
** TEMPORARY CONCRETE BARRIER STA. 27+00 TO STA. 32+00



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


STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

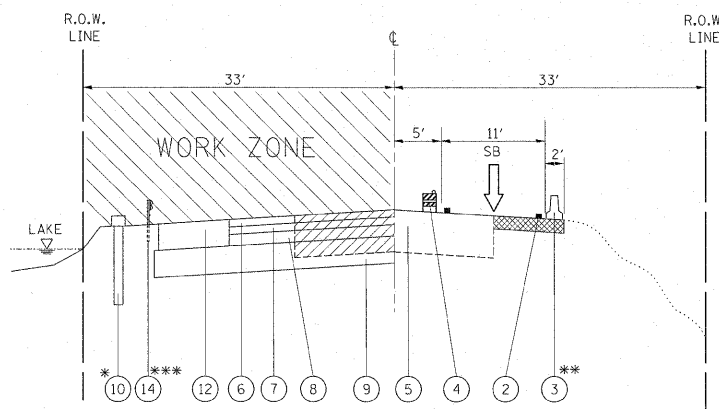
SUGGESTED STAGING AND TRAFFIC CONTROL PLAN - STAGE I
95th STREET @ 104th AVENUE / FLAVIN ROAD

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

F.A.U. RTE. 1566	SECTION 29 R-N-1	COUNTY COOK	TOTAL SHEETS 120	SHEET NO. 23
CONTRACT NO. 62377				
ILLINOIS FED. AID PROJECT				

LEGEND

-  PAVEMENT REMOVAL
-  TEMPORARY PAVEMENT
-  TRAFFIC LANE
- ① TEMPORARY PAVEMENT MARKING
DOUBLE YELLOW CENTERLINE, 4"
- ② TEMPORARY PAVEMENT MARKING
EDGE LINE, 4" WHITE
- ③ TEMPORARY CONCRETE BARRIER
- ④ VERTICAL PANELS OR DRUMS
WITH STEADY BURNING LIGHT
- ⑤ EXISTING PAVEMENT
- ⑥ PROPOSED POLYMERIZED HOT-MIX ASPHALT SURFACE COURSE,
STONE MATRIX ASPHALT, N80, 2"
- ⑦ PROPOSED POLYMERIZED HOT-MIX ASPHALT BINDER COURSE,
STONE MATRIX ASPHALT, N80, 2"
- ⑧ PROPOSED POLYMERIZED HOT-MIX ASPHALT BINDER COURSE,
1L-19, N90, 5/4"
- ⑨ PROPOSED AGGREGATE SUBGRADE, 12"
- ⑩ PROPOSED RETAINING WALL
- ⑪ PROPOSED HOT-MIX ASPHALT SHOULDER, 4'
- ⑫ PROPOSED HOT-MIX ASPHALT SHOULDER, 6'
- ⑬ PROPOSED HOT-MIX ASPHALT SHOULDER, 8'
- ⑭ PROPOSED STEEL PLATE BEAM GUARDRAIL
- ⑮ PROPOSED GRADING AND SHAPING DITCHES



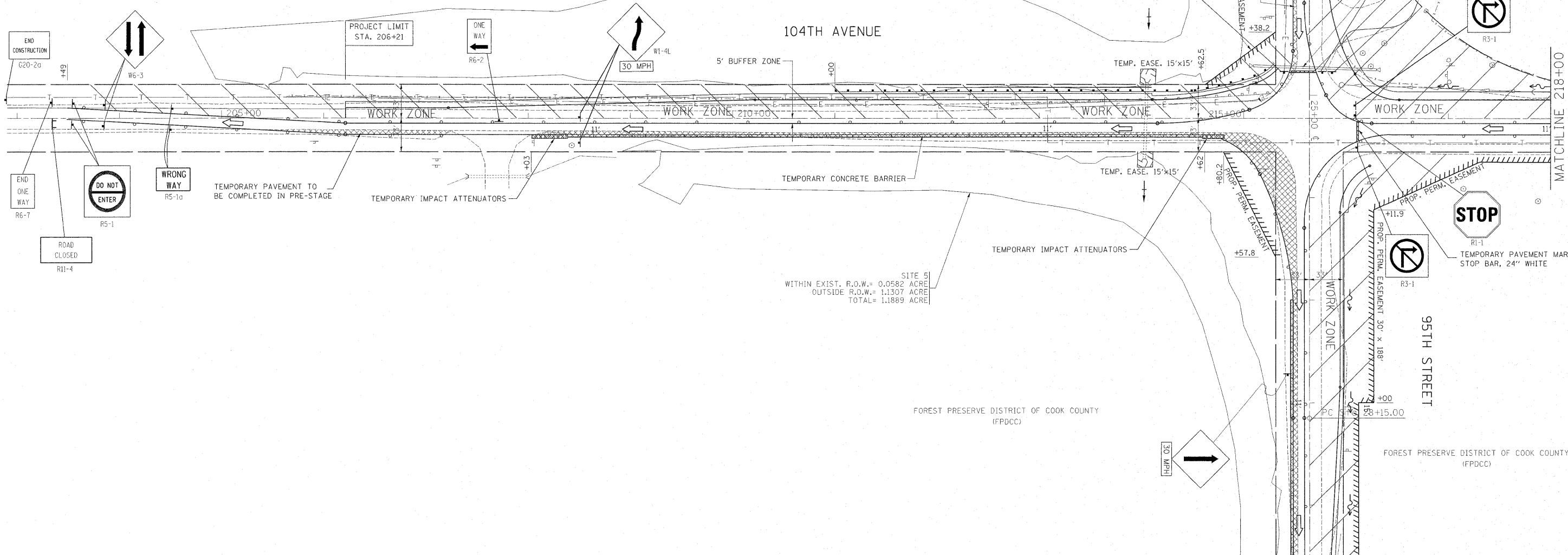
STAGE I

NOTE:
 * PROPOSED PERMANENT RETAINING WALL
 STA. 212+00 TO STA. 214+00
 (WILL BE BUILT 3' FROM THE EXISTING R.O.W.)
 ** TEMPORARY CONCRETE BARRIER
 STA. 208+03 TO STA. 214+62
 *** PROPOSED STEEL PLATE BEAM GUARDRAIL
 STA. 211+00 TO STA. 215+30

**STAGE I TYPICAL SECTION (104TH AVE.)
 STA. 203+49 TO STA. 215+64.3**

SITE 1
 WITHIN EXIST. R.O.W. = 0.0367 ACRE
 WITHIN TEMP. EASEMENT = 0.0029 ACRE
 OUTSIDE R.O.W. = 2.2029 ACRE
 TOTAL = 2.2425 ACRE

SITE 5
 WITHIN EXIST. R.O.W. = 0.0582 ACRE
 OUTSIDE R.O.W. = 1.1307 ACRE
 TOTAL = 1.1889 ACRE



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


**STATE OF ILLINOIS
 DEPARTMENT OF TRANSPORTATION**

**SUGGESTED STAGING AND TRAFFIC CONTROL PLAN - STAGE I
 95th STREET @ 104th AVENUE / FLAVIN ROAD**

SCALE:	SHEET NO.	OF	SHEETS	STA.	TO	STA.
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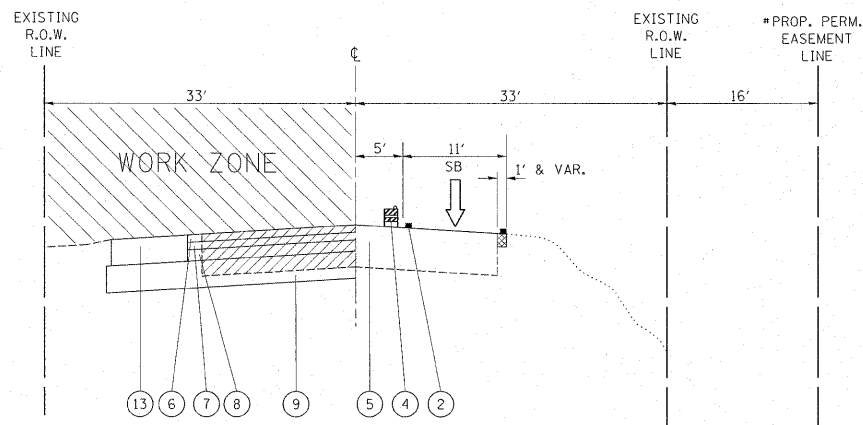
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1566	29 R-N-1	COOK	120	24
CONTRACT NO. 62377				
ILLINOIS FED. AID PROJECT				

LEGEND

-  PAVEMENT REMOVAL
-  TEMPORARY PAVEMENT*
-  TRAFFIC LANE

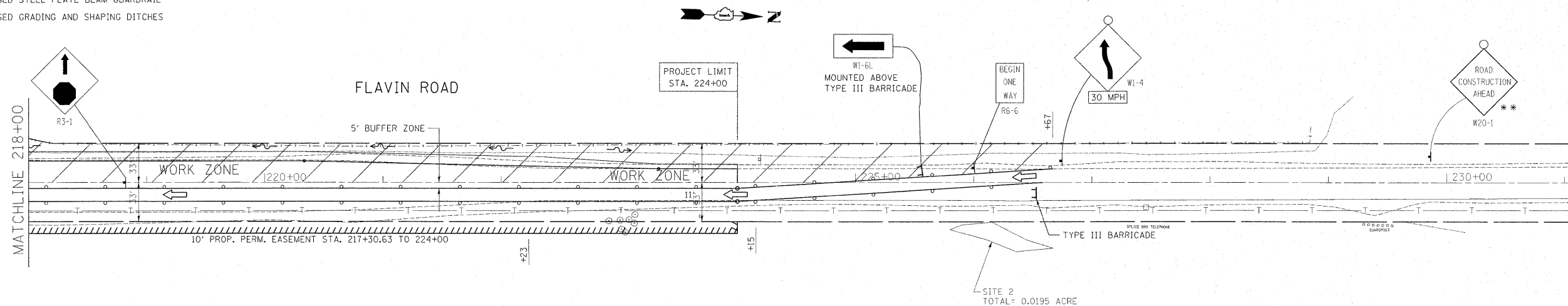
- ① TEMPORARY PAVEMENT MARKING DOUBLE YELLOW CENTERLINE, 4"
- ② TEMPORARY PAVEMENT MARKING EDGE LINE, 4" WHITE
- ③ TEMPORARY CONCRETE BARRIER
- ④ VERTICAL PANELS OR DRUMS WITH STEADY BURNING LIGHT
- ⑤ EXISTING PAVEMENT
- ⑥ PROPOSED POLYMERIZED HOT-MIX ASPHALT SURFACE COURSE, STONE MATRIX ASPHALT, N80, 2"
- ⑦ PROPOSED POLYMERIZED HOT-MIX ASPHALT BINDER COURSE, STONE MATRIX ASPHALT, N80, 2"
- ⑧ PROPOSED POLYMERIZED HOT-MIX ASPHALT BINDER COURSE, IL-19, N90, 5/4"
- ⑨ PROPOSED AGGREGATE SUBGRADE, 12"
- ⑩ PROPOSED RETAINING WALL
- ⑪ PROPOSED HOT-MIX ASPHALT SHOULDER, 4'
- ⑫ PROPOSED HOT-MIX ASPHALT SHOULDER, 6'
- ⑬ PROPOSED HOT-MIX ASPHALT SHOULDER, 8'
- ⑭ PROPOSED STEEL PLATE BEAM GUARDRAIL
- ⑮ PROPOSED GRADING AND SHAPING DITCHES

STAGE I






STAGE I TYPICAL SECTION (FLAVIN RD.)
STA. 215+64.3 TO STA. 226+67

NOTE:
PERMANENT EASEMENT STA. 217+31 TO STA. 224+00
* TEMPORARY PAVEMENT STA. 222+23 TO STA. 224+15



NOTES:

- * STRAIGHT TAPER MAY BE USED IN PLACE OF REVERSE CURVE
- ** a)  SIGN SHALL BE PLACED 500' FROM REVERSE CURVE (OR STRAIGHT TAPER)
- b) THERE SHALL BE 500' SPACING BETWEEN  AND  SIGNS

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PLOT DATE = 12/6/2011		DATE -	REVISED -




STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

SUGGESTED STAGING AND TRAFFIC CONTROL PLAN - STAGE I
95th STREET @ 104th AVENUE / FLAVIN ROAD

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

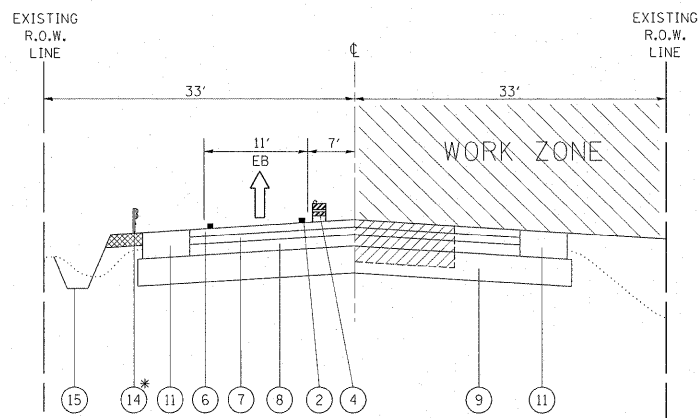
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CONTRACT NO. 62377				
ILLINOIS FED. AID PROJECT				

LEGEND

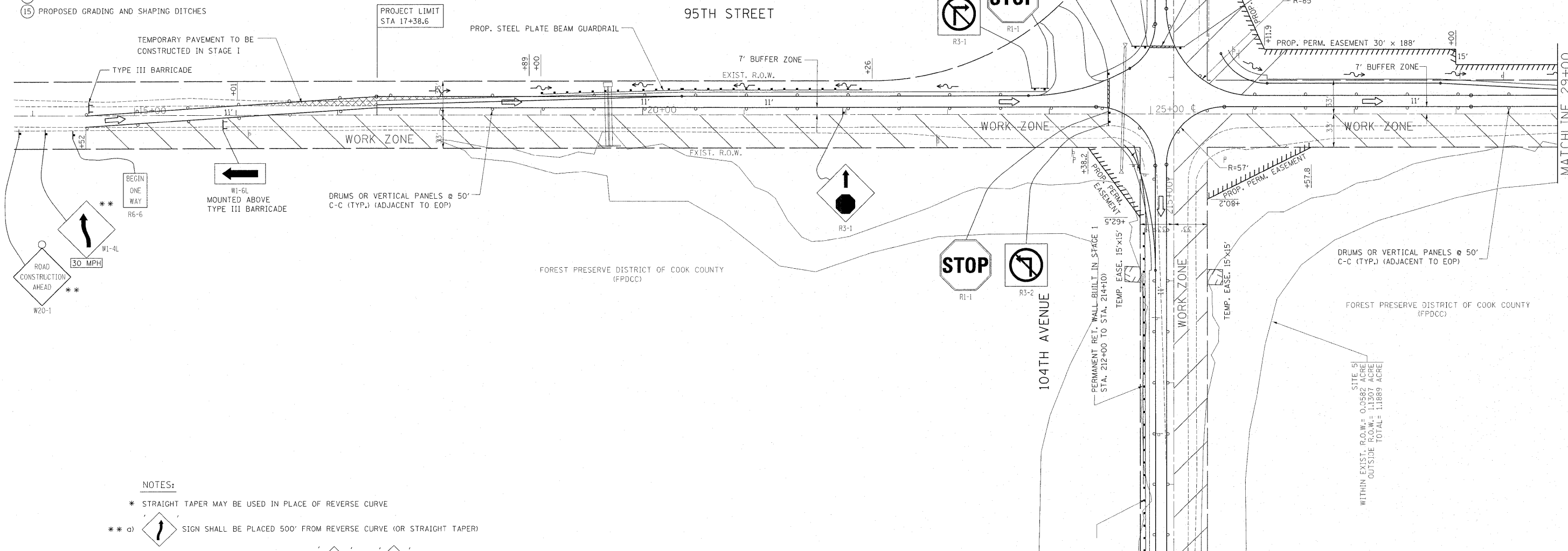
-  PAVEMENT REMOVAL
-  TEMPORARY PAVEMENT **
-  TRAFFIC LANE
- ① TEMPORARY PAVEMENT MARKING
DOUBLE YELLOW CENTERLINE, 4"
- ② TEMPORARY PAVEMENT MARKING
EDGE LINE, 4" WHITE
- ③ TEMPORARY CONCRETE BARRIER
- ④ VERTICAL PANELS OR DRUMS
WITH STEADY BURNING LIGHT
- ⑤ EXISTING PAVEMENT
- ⑥ PROPOSED POLYMERIZED HOT-MIX ASPHALT SURFACE COURSE,
STONE MATRIX ASPHALT, N80, 2"
- ⑦ PROPOSED POLYMERIZED HOT-MIX ASPHALT BINDER COURSE,
STONE MATRIX ASPHALT, N80, 2"
- ⑧ PROPOSED POLYMERIZED HOT-MIX ASPHALT BINDER COURSE,
IL-19, N90, 5/4"
- ⑨ PROPOSED AGGREGATE SUBGRADE, 12"
- ⑩ PROPOSED RETAINING WALL
- ⑪ PROPOSED HOT-MIX ASPHALT SHOULDER, 4'
- ⑫ PROPOSED HOT-MIX ASPHALT SHOULDER, 6'
- ⑬ PROPOSED HOT-MIX ASPHALT SHOULDER, 8'
- ⑭ PROPOSED STEEL PLATE BEAM GUARDRAIL
- ⑮ PROPOSED GRADING AND SHAPING DITCHES

STAGE II




NOTE:
 * PROPOSED STEEL PLATE BEAM GUARDRAIL
 STA. 19+00 TO STA. 22+26
 ** TEMPORARY PAVEMENT
 STA. 16+01 TO STA. 18+89



**STAGE II TYPICAL SECTION (95TH ST.)
 STA. 14+52 TO STA. 25+22.4**



NOTES:

- * STRAIGHT TAPER MAY BE USED IN PLACE OF REVERSE CURVE
- ** a)  SIGN SHALL BE PLACED 500' FROM REVERSE CURVE (OR STRAIGHT TAPER)
- b) THERE SHALL BE 500' SPACING BETWEEN  AND  SIGNS

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


**STATE OF ILLINOIS
 DEPARTMENT OF TRANSPORTATION**

**SUGGESTED STAGING AND TRAFFIC CONTROL PLAN - STAGE II
 95th STREET @ 104th AVENUE / FLAVIN ROAD**

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

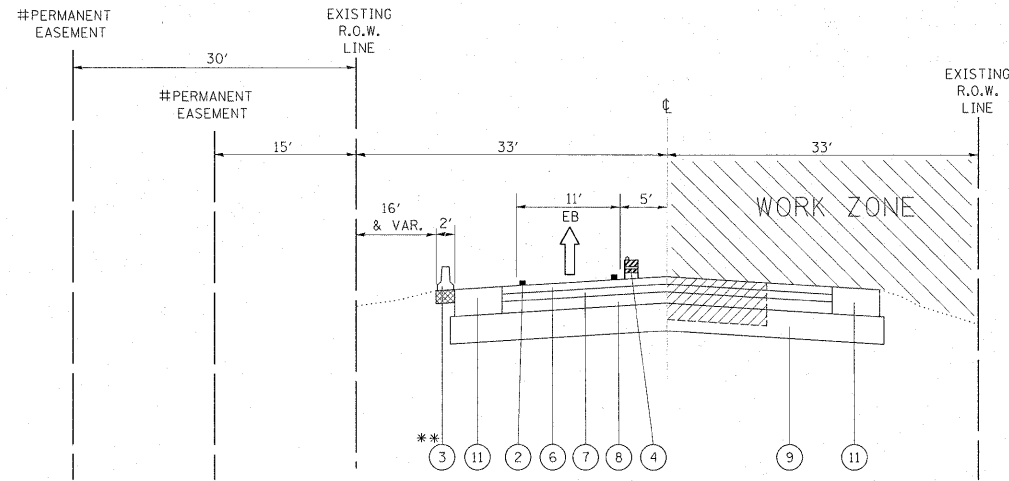
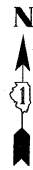
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CONTRACT NO. 62377				
ILLINOIS FED. AID PROJECT				

LEGEND

-  PAVEMENT REMOVAL
-  TEMPORARY PAVEMENT*
-  TRAFFIC LANE

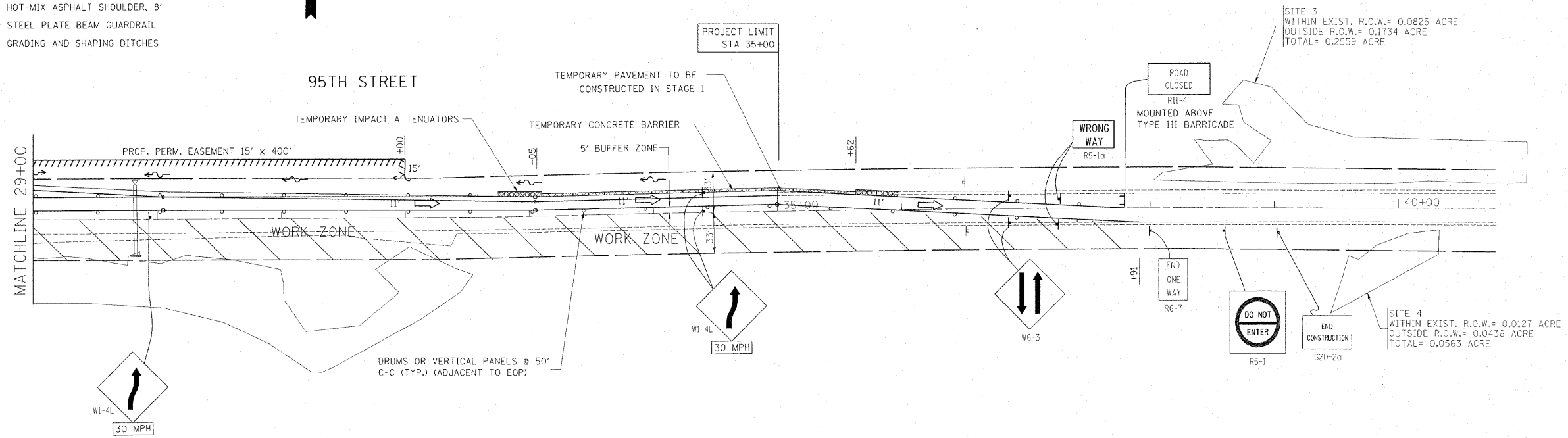
- ① TEMPORARY PAVEMENT MARKING DOUBLE YELLOW CENTERLINE, 4"
- ② TEMPORARY PAVEMENT MARKING EDGE LINE, 4" WHITE
- ③ TEMPORARY CONCRETE BARRIER
- ④ VERTICAL PANELS OR DRUMS WITH STEADY BURNING LIGHT
- ⑤ EXISTING PAVEMENT
- ⑥ PROPOSED POLYMERIZED HOT-MIX ASPHALT SURFACE COURSE, STONE MATRIX ASPHALT, N80, 2"
- ⑦ PROPOSED POLYMERIZED HOT-MIX ASPHALT BINDER COURSE, STONE MATRIX ASPHALT, N80, 2"
- ⑧ PROPOSED POLYMERIZED HOT-MIX ASPHALT BINDER COURSE, IL-19, N90, 5/4"
- ⑨ PROPOSED AGGREGATE SUBGRADE, 12"
- ⑩ PROPOSED RETAINING WALL
- ⑪ PROPOSED HOT-MIX ASPHALT SHOULDER, 4'
- ⑫ PROPOSED HOT-MIX ASPHALT SHOULDER, 6'
- ⑬ PROPOSED HOT-MIX ASPHALT SHOULDER, 8'
- ⑭ PROPOSED STEEL PLATE BEAM GUARDRAIL
- ⑮ PROPOSED GRADING AND SHAPING DITCHES

STAGE II



STAGE II TYPICAL SECTION (95TH ST.)
STA. 25+22.4 TO STA. 37+91

- NOTE:**
- * TEMPORARY PAVEMENT STA. 33+05 TO STA. 35+62
 - ** TEMPORARY CONCRETE BARRIER STA. 33+10 TO STA. 35+62
 - # PERMANENT EASEMENT (30' DISTANCE FROM R.O.W.) STA. 26+11 TO STA. 28+00
 - # PERMANENT EASEMENT (15' DISTANCE FROM R.O.W.) STA. 28+00 TO STA. 32+00



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

















**STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION**

SUGGESTED STAGING AND TRAFFIC CONTROL PLAN - STAGE II
95th STREET @ 104th AVENUE / FLAVIN ROAD

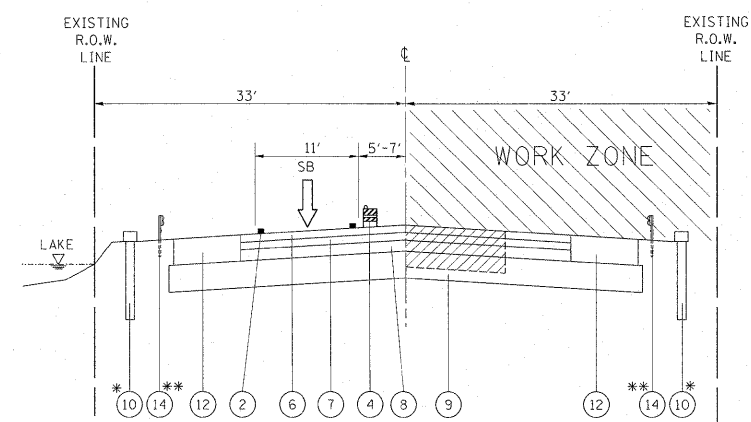
SCALE: SHEET NO. OF SHEETS STA. TO STA.

F.A.U. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
1566	29 R-N-1	COOK	120	27
CONTRACT NO. 62377				
ILLINOIS FED. AID PROJECT				

LEGEND

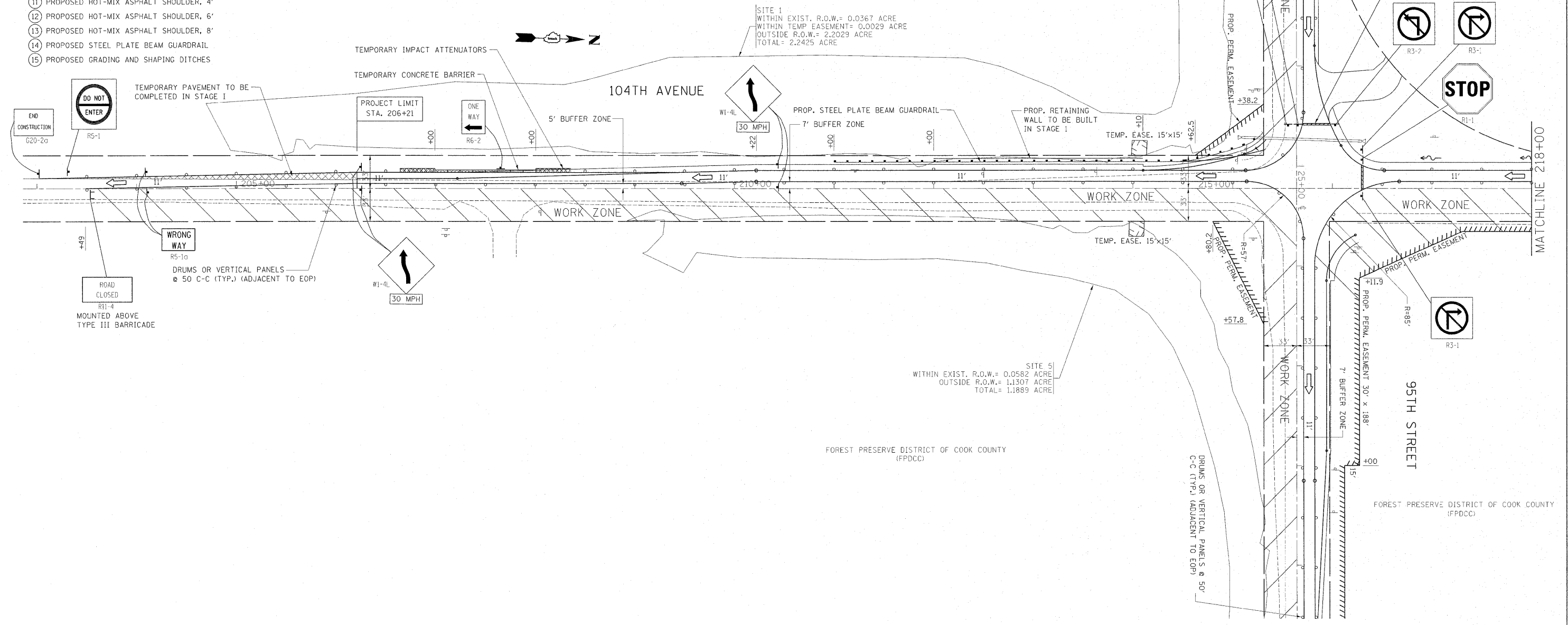
-  PAVEMENT REMOVAL
-  TEMPORARY PAVEMENT
-  TRAFFIC LANE
-  1 TEMPORARY PAVEMENT MARKING DOUBLE YELLOW CENTERLINE, 4"
-  2 TEMPORARY PAVEMENT MARKING EDGE LINE, 4" WHITE
-  3 TEMPORARY CONCRETE BARRIER
-  4 VERTICAL PANELS OR DRUMS WITH STEADY BURNING LIGHT
-  5 EXISTING PAVEMENT
-  6 PROPOSED POLYMERIZED HOT-MIX ASPHALT SURFACE COURSE, STONE MATRIX ASPHALT, N80, 2"
-  7 PROPOSED POLYMERIZED HOT-MIX ASPHALT BINDER COURSE, STONE MATRIX ASPHALT, N80, 2"
-  8 PROPOSED POLYMERIZED HOT-MIX ASPHALT BINDER COURSE, IL-19, N90, 5/4"
-  9 PROPOSED AGGREGATE SUBGRADE, 12"
-  10 PROPOSED RETAINING WALL
-  11 PROPOSED HOT-MIX ASPHALT SHOULDER, 4'
-  12 PROPOSED HOT-MIX ASPHALT SHOULDER, 6'
-  13 PROPOSED HOT-MIX ASPHALT SHOULDER, 8'
-  14 PROPOSED STEEL PLATE BEAM GUARDRAIL
-  15 PROPOSED GRADING AND SHAPING DITCHES

STAGE II



**STAGE II TYPICAL SECTION (104TH AVE.)
STA. 203+49 TO STA. 215+64.3**

NOTE:
 * PROPOSED PERMANENT RETAINING WALL STA. 212+00 TO STA. 214+10 (WILL BE 7' FROM EXISTING R.O.W.)
 TEMPORARY CONCRETE BARRIER STA. 207+00 TO STA. 208+00
 ** PROPOSED STEEL PLATE BEAM GUARDRAIL STA. 211+00 TO STA. 215+30






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PLOT DATE = 12/6/2011		DATE -	REVISED -

**STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION**

**SUGGESTED STAGING AND TRAFFIC CONTROL PLAN - STAGE II
95th STREET @ 104th AVENUE / FLAVIN ROAD**

F.A.U. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
1566	29 R-N-1	COOK	120	28
CONTRACT NO. 62377				
ILLINOIS FED. AID PROJECT				

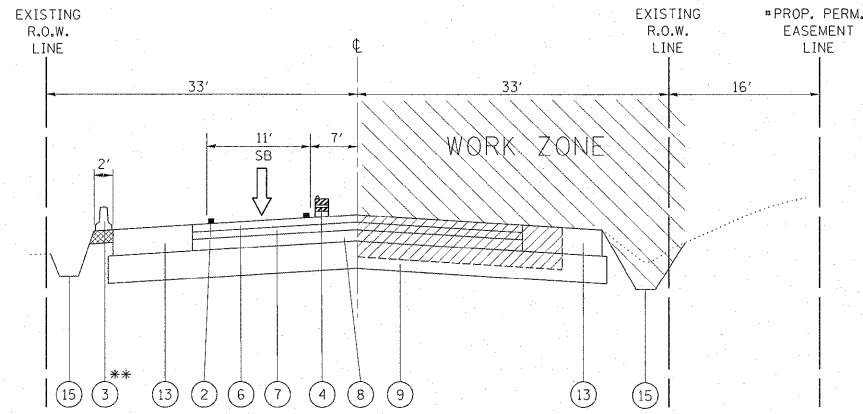
LEGEND

-  PAVEMENT REMOVAL
-  TEMPORARY PAVEMENT *
-  TRAFFIC LANE

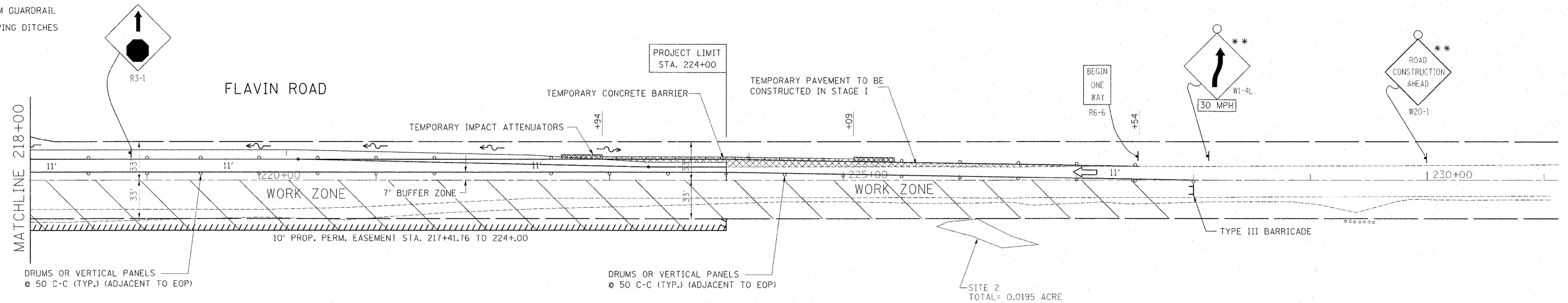
- ① TEMPORARY PAVEMENT MARKING DOUBLE YELLOW CENTERLINE, 4"
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- ③ TEMPORARY CONCRETE BARRIER
- ④ VERTICAL PANELS OR DRUMS WITH STEADY BURNING LIGHT
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- ⑥ PROPOSED POLYMERIZED HOT-MIX ASPHALT SURFACE COURSE, STONE MATRIX ASPHALT, N80, 2"
- ⑦ PROPOSED POLYMERIZED HOT-MIX ASPHALT BINDER COURSE, STONE MATRIX ASPHALT, N80, 2"
- ⑧ PROPOSED POLYMERIZED HOT-MIX ASPHALT BINDER COURSE, IL-19, N90, 5 1/4"
- ⑨ PROPOSED AGGREGATE SUBGRADE, 12"
- ⑩ PROPOSED RETAINING WALL
- ⑪ PROPOSED HOT-MIX ASPHALT SHOULDER, 4'
- ⑫ PROPOSED HOT-MIX ASPHALT SHOULDER, 6'
- ⑬ PROPOSED HOT-MIX ASPHALT SHOULDER, 8'
- ⑭ PROPOSED STEEL PLATE BEAM GUARDRAIL
- ⑮ PROPOSED GRADING AND SHAPING DITCHES

STAGE II




- NOTE:**
- * TEMPORARY PAVEMENT STA. 222+94 TO STA. 227+54
 - ** TEMPORARY CONCRETE BARRIER STA. 222+94 TO STA. 225+09
 - # PROP. PERMANENT EASEMENT STA. 217+31 TO 224+00



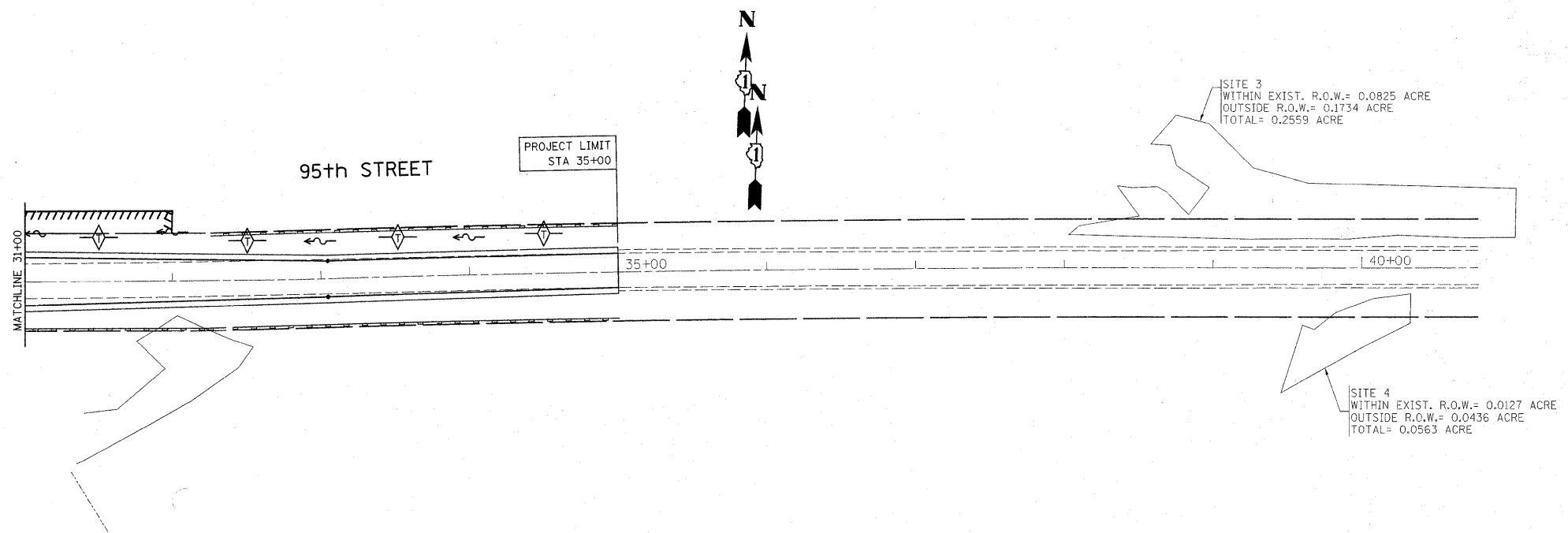
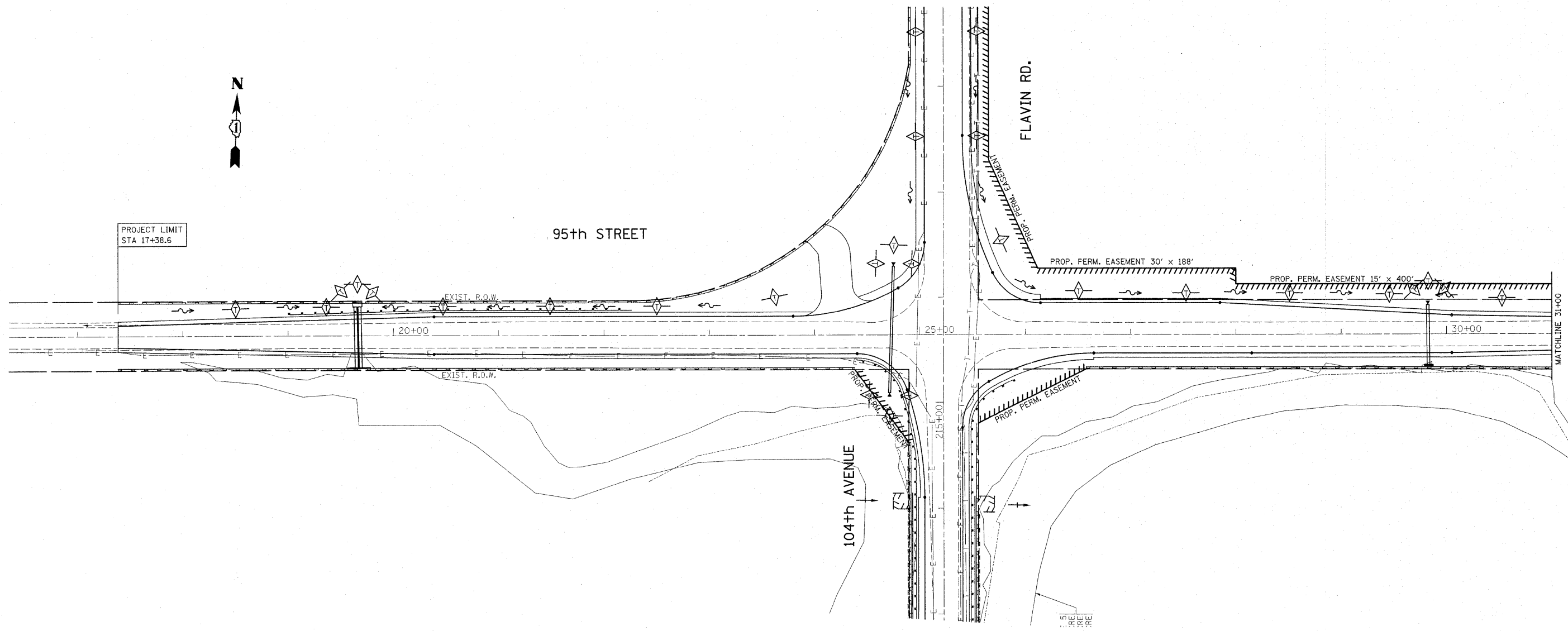
STAGE II TYPICAL SECTION (FLAVIN RD.)
STA. 215+64.3 TO STA. 227+54



NOTES:

- * STRAIGHT TAPER MAY BE USED IN PLACE OF REVERSE CURVE
- ** a)  SIGN SHALL BE PLACED 500' FROM REVERSE CURVE (OR STRAIGHT TAPER)
- b) THERE SHALL BE 500' SPACING BETWEEN  AND  SIGNS

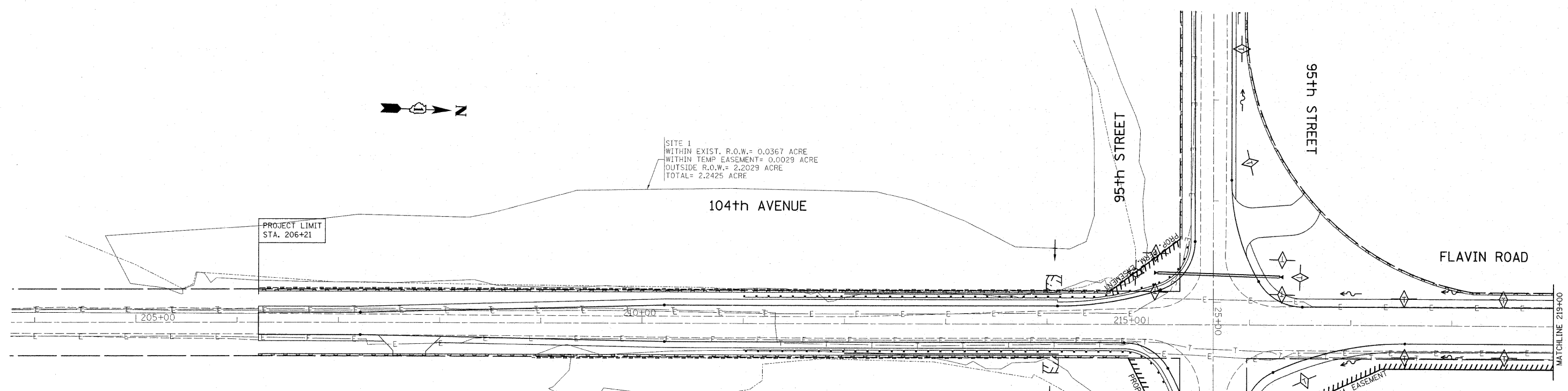
FILE NAME = c:\pw_work\pwidot\steadpa\0159915\p14499-Design.dgn	USER NAME = steadpa	DESIGNED -	REVISED -	STATE OF ILLINOIS DEPARTMENT OF TRANSPORTATION	SUGGESTED STAGING AND TRAFFIC CONTROL PLAN - STAGE II 95th STREET @ 104th AVENUE / FLAVIN ROAD		F.A.U. RTE. 1566	SECTION 29 R-N-1	COUNTY COOK	TOTAL SHEETS 120	SHEET NO. 29	
PLOT SCALE = 50.0000' / in.	CHECKED -	REVISIED -	REVISIED -		SCALE:	SHEET NO. OF SHEETS	STA. TO STA.	CONTRACT NO. 62377				
PLOT DATE = 12/6/2011	DATE -	REVISIED -	REVISIED -		ILLINOIS FED. AID PROJECT							



EROSION CONTROL GENERAL NOTES:

1. TEMPORARY EROSION CONTROL SEEDING IS TO BE PROVIDED AT ALL ERODIBLE BARE EARTH AREAS.
2. THE CONTRACTOR SHALL PROVIDE AND MAINTAIN INLET AND OR PIPE PROTECTION AT ALL DRAINAGE STRUCTURES AND AT OTHER LOCATIONS AS DIRECTED BY THE ENGINEER. INLET PROTECTION SHALL BE PLACED IMMEDIATELY AFTER THE INVOLVED AREA HAS BEEN DISTURBED.
3. ALL EROSION CONTROL MEASURES SHALL BE IN ACCORDANCE WITH THE REQUIREMENTS OF THE STANDARD SPECIFICATIONS AND OF THE APPLICABLE STATE STANDARD FOR THE ENTIRE DURATION OF THE CONTRACT, OR UNTIL SUCH A TIME AS DIRECTED BY THE ENGINEER.
4. PERIMETER EROSION CONTROL BARRIER SHALL BE PLACED 12 INCHES FROM THE RIGHT-OF-WAY OR EASEMENT LINE AS DIRECTED BY THE ENGINEER.
5. AT ANY AREA WHERE THERE IS NO PROPOSED GRADING, THE EXISTING GROUND COVER SHALL REMAIN.
6. DURING CONSTRUCTION AND WHEN ERODABLE SOILS ARE EXPOSED, ALL DRAINAGE STRUCTURES NOT PROTECTED WITH INLET AND OR PIPE PROTECTION SHALL BE KEPT SEALED TO PREVENT ACCESS FROM EROSION. THIS WORK SHALL BE CONSIDERED AS PART OF THE COST OF THE VARIOUS DRAINAGE STRUCTURES.

FILE NAME =	USER NAME = ulr1chkd	DESIGNED -	REVISED -	STATE OF ILLINOIS DEPARTMENT OF TRANSPORTATION	95TH STREET @ 104TH AVE. / FLAVIN RD. EROSION CONTROL PLAN	F.A.U. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.	
ct:\pw_work\p\sdot\ulr1chkd\02159937\P144	99-sht-eros.dgn	DRAWN -	REVISED -			1566	29 R-N-1	COOK	120	30	
	PLOT SCALE = 50.000 ' / IN.	CHECKED -	REVISED -			CONTRACT NO. 62377					
	PLOT DATE = 3/23/2011	DATE -	REVISED -			ILLINOIS FED. AID PROJECT					



SITE 1
 WITHIN EXIST. R.O.W.= 0.0367 ACRE
 WITHIN TEMP EASEMENT= 0.0029 ACRE
 OUTSIDE R.O.W.= 2.2029 ACRE
 TOTAL= 2.2425 ACRE

PROJECT LIMIT
 STA. 206+21

104th AVENUE

95th STREET

95th STREET

FLAVIN ROAD

EROSION CONTROL GENERAL NOTES:

1. TEMPORARY EROSION CONTROL SEEDING IS TO BE PROVIDED AT ALL ERODIBLE BARE EARTH AREAS.
2. THE CONTRACTOR SHALL PROVIDE AND MAINTAIN INLET AND OR PIPE PROTECTION AT ALL DRAINAGE STRUCTURES AND AT OTHER LOCATIONS AS DIRECTED BY THE ENGINEER. INLET PROTECTION SHALL BE PLACED IMMEDIATELY AFTER THE INVOLVED AREA HAS BEEN DISTURBED.
3. ALL EROSION CONTROL MEASURES SHALL BE IN ACCORDANCE WITH THE REQUIREMENTS OF THE STANDARD SPECIFICATIONS AND OF THE APPLICABLE STATE STANDARD FOR THE ENTIRE DURATION OF THE CONTRACT, OR UNTIL SUCH A TIME AS DIRECTED BY THE ENGINEER.
4. PERIMETER EROSION CONTROL BARRIER SHALL BE PLACED 12 INCHES FROM THE RIGHT-OF-WAY OR EASEMENT LINE AS DIRECTED BY THE ENGINEER.
5. AT ANY AREA WHERE THERE IS NO PROPOSED GRADING, THE EXISTING GROUND COVER SHALL REMAIN.
6. DURING CONSTRUCTION AND WHEN ERODABLE SOILS ARE EXPOSED, ALL DRAINAGE STRUCTURES NOT PROTECTED WITH INLET AND OR PIPE PROTECTION SHALL BE KEPT SEALED TO PREVENT ACCESS FROM EROSION. THIS WORK SHALL BE CONSIDERED AS PART OF THE COST OF THE VARIOUS DRAINAGE STRUCTURES.

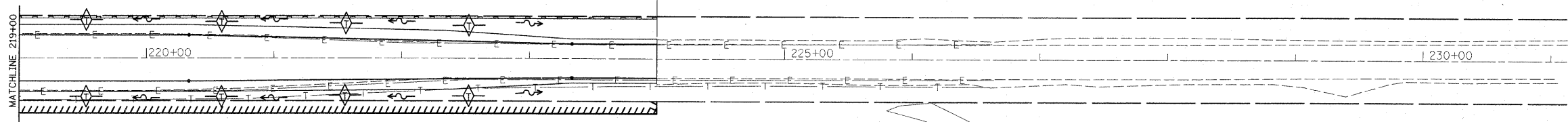
LEGEND

SYMBOL	DESCRIPTION
	TEMPORARY DITCH CHECK
	PERIMETER EROSION BARRIER
	INLET OR PIPE PROTECTION
	ROADWAY DITCH FLOW
	SWALE

SITE 5
 WITHIN EXIST. R.O.W.= 0.0582 ACRE
 OUTSIDE R.O.W.= 1.1307 ACRE
 TOTAL= 1.1889 ACRE

FLAVIN ROAD

PROJECT LIMIT
 STA. 224+00

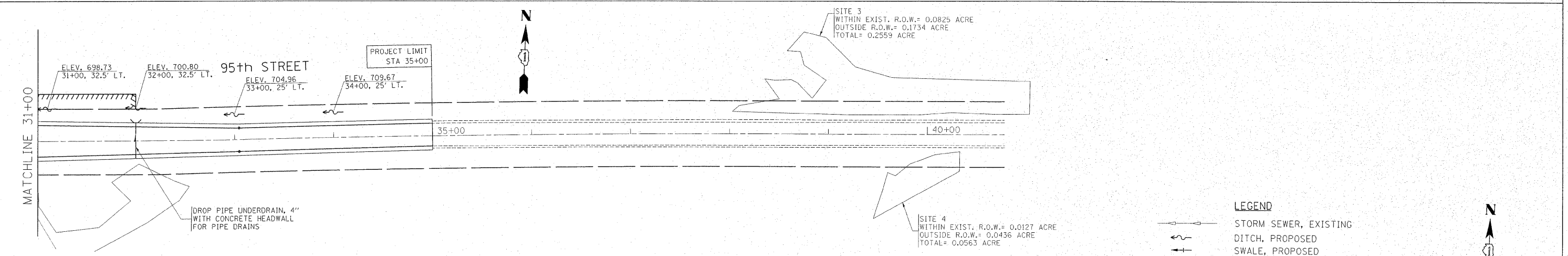
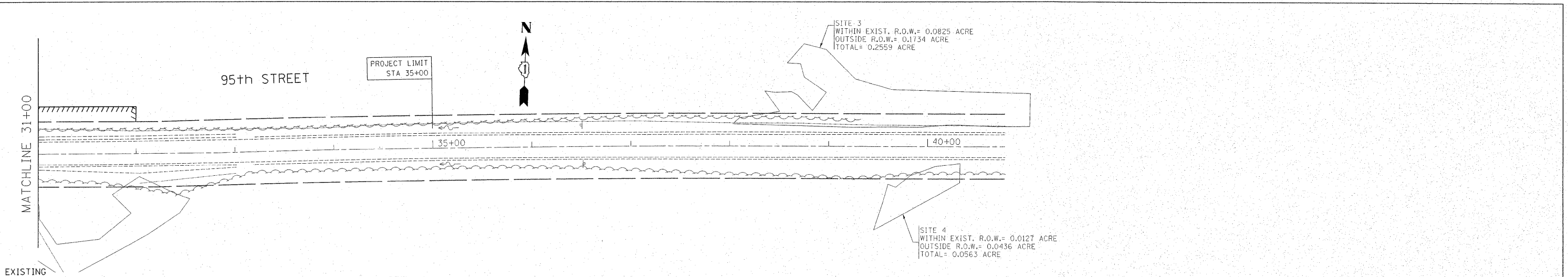


SITE 2
 TOTAL= 0.0195 ACRE

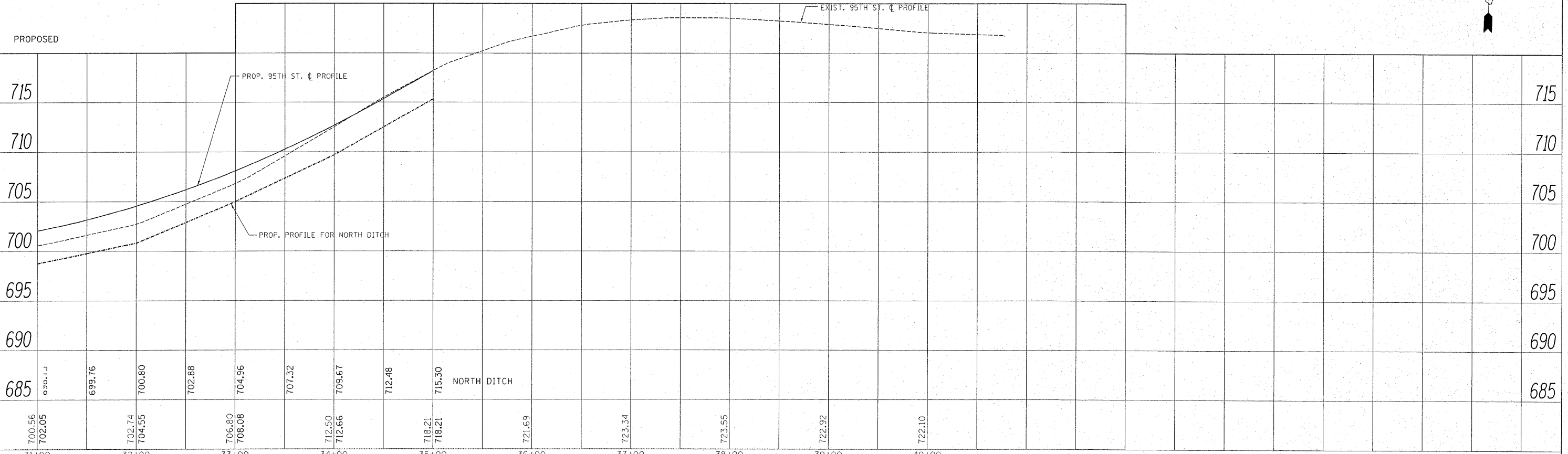
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os\pwork\pwork\ulrichkd\d0159937\PI44	99-sht-eros.dgn	DRAWN -	REVISED -					SCALE: SHEET NO. OF SHEETS STA. TO STA.			CONTRACT NO. 62377				
		CHECKED -	REVISED -					ILLINOIS FED. AID PROJECT							
		DATE -	REVISED -												

PLAN	SURVEYED	DATE
	PLOTTED	
	CHECKED	
	BY	
	NO. OF WAY CHECKED	
	FILE NAME	
	NO.	

PROFILE	SURVEYED	DATE
	PLOTTED	
	CHECKED	
	BY	
	NO. OF WAY CHECKED	
	FILE NAME	
	NO.	



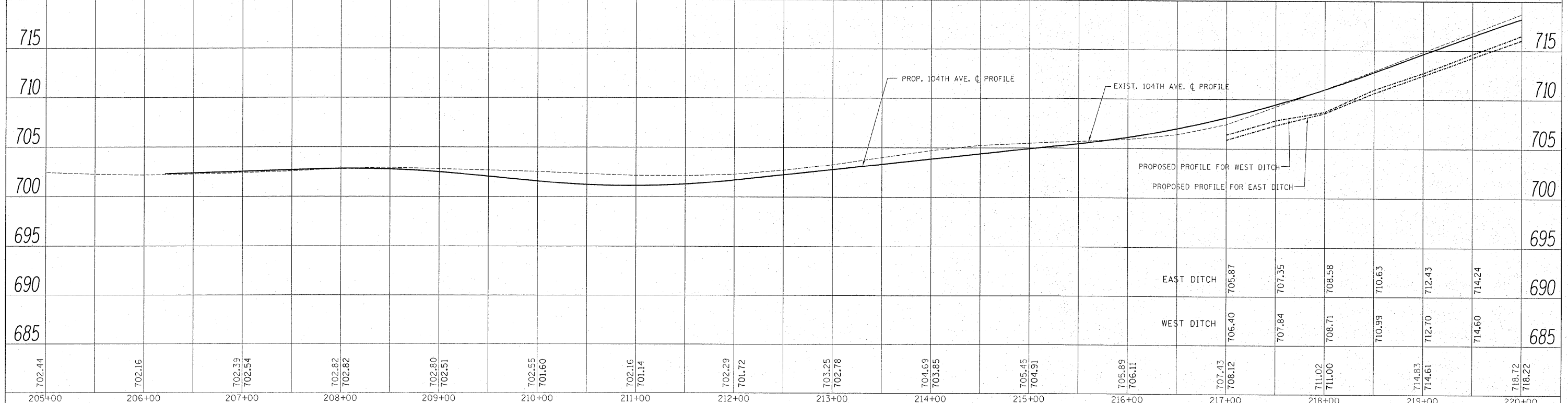
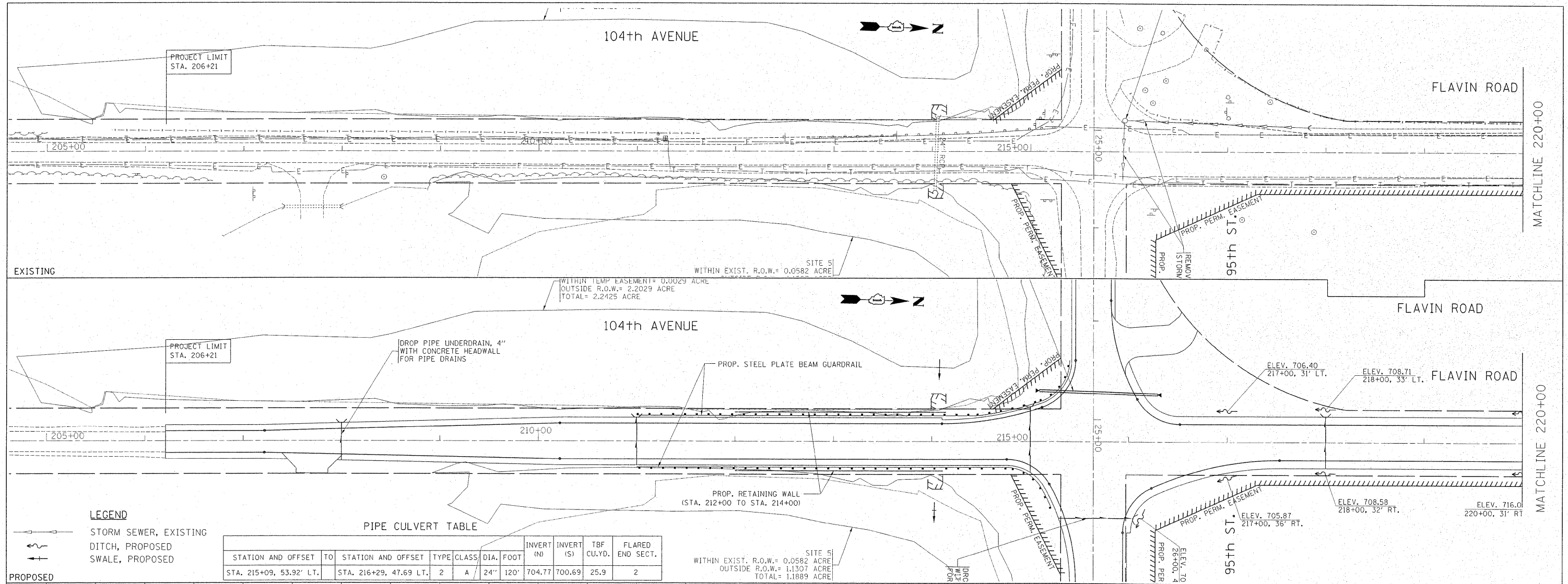
- LEGEND**
- STORM SEWER, EXISTING
 - DITCH, PROPOSED
 - SWALE, PROPOSED



FILE NAME =	USER NAME = steepe	DESIGNED -	REVISED -	STATE OF ILLINOIS DEPARTMENT OF TRANSPORTATION	95th STREET @ 104th AVE. / FLAVIN ROAD EXIST. & PROP. DRAINAGE PLAN	F.A.U. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
ci:\pw\work\pwidot\steepe\0159937\p14449	st-drain.dgn	DRAWN -	REVISED -			1566	29R-N-1	COOK	120	33
	PLOT SCALE = 50.000' / in.	CHECKED -	REVISED -			CONTRACT NO. 62377				
	PLOT DATE = 12/22/2011	DATE -	REVISED -			ILLINOIS FED. AID PROJECT				

PLAN	SURVEYED	DATE
	PLOTTED	
	CHECKED	
	BY	
	NO. OF RAY CHECKED	
	CADD FILE NAME	
	NO.	

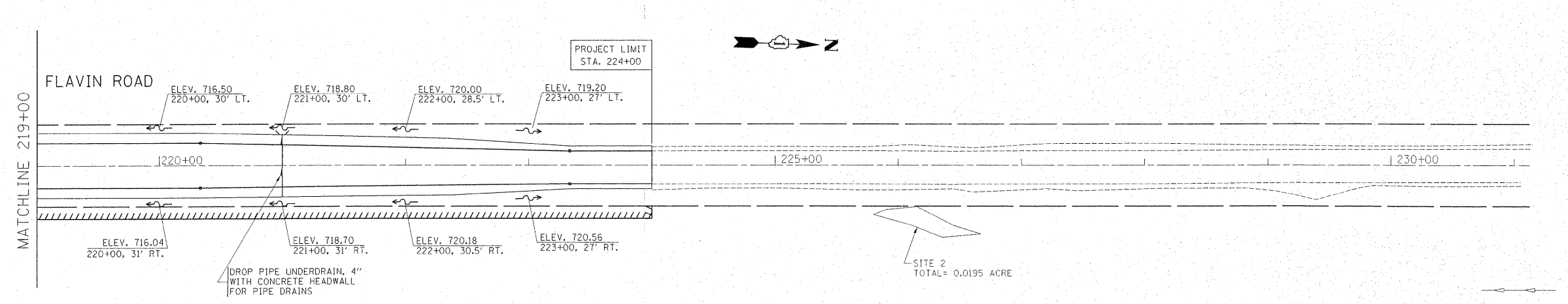
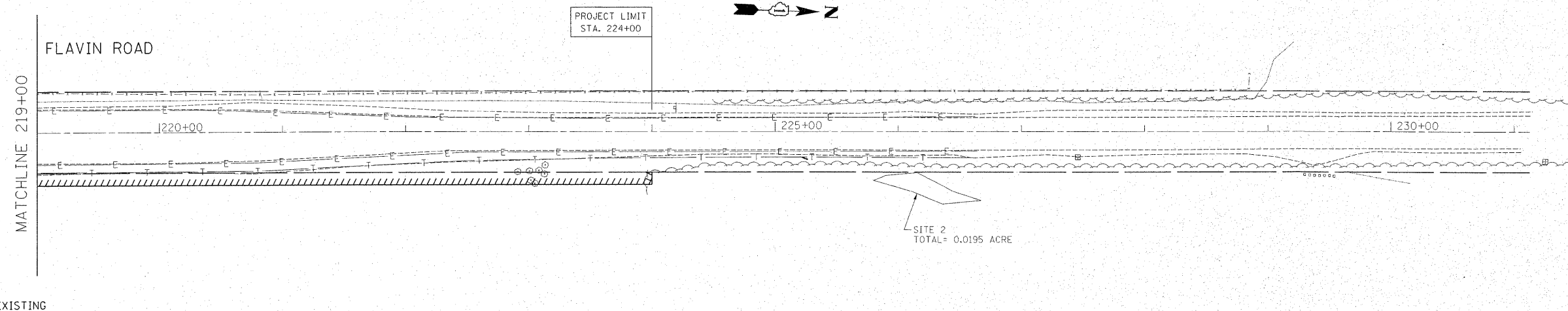
PROFILE	SURVEYED	DATE
	PLOTTED	
	CHECKED	
	BY	
	NO. OF RAY CHECKED	
	STRUCTURE NOTATIONS CHK'D	
	NO.	



FILE NAME =	USER NAME = steedpa	DESIGNED -	REVISED -	STATE OF ILLINOIS DEPARTMENT OF TRANSPORTATION	104th AVE. / FLAVIN ROAD @ 95th STREET EXIST. & PROP. DRAINAGE PLAN	FLAU RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
or:\pv_work\psidot\stedpa\0159937\PI4449\shd-drain.dgn	DRAWN -	REVISED -	1566			29R-N-1	COOK	120	34	
PLOT SCALE = 50.000' / in.	CHECKED -	REVISED -	CONTRACT NO. 62377							
PLOT DATE = 12/22/2011	DATE -	REVISED -	ILLINOIS FED. AID PROJECT							

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

PROFILE	SURVEYED	BY	DATE
	PLOTTED		
	CHECKED		
	NO. _____		
	STRUCTURE		
	NOVATINS		
	CHKD		

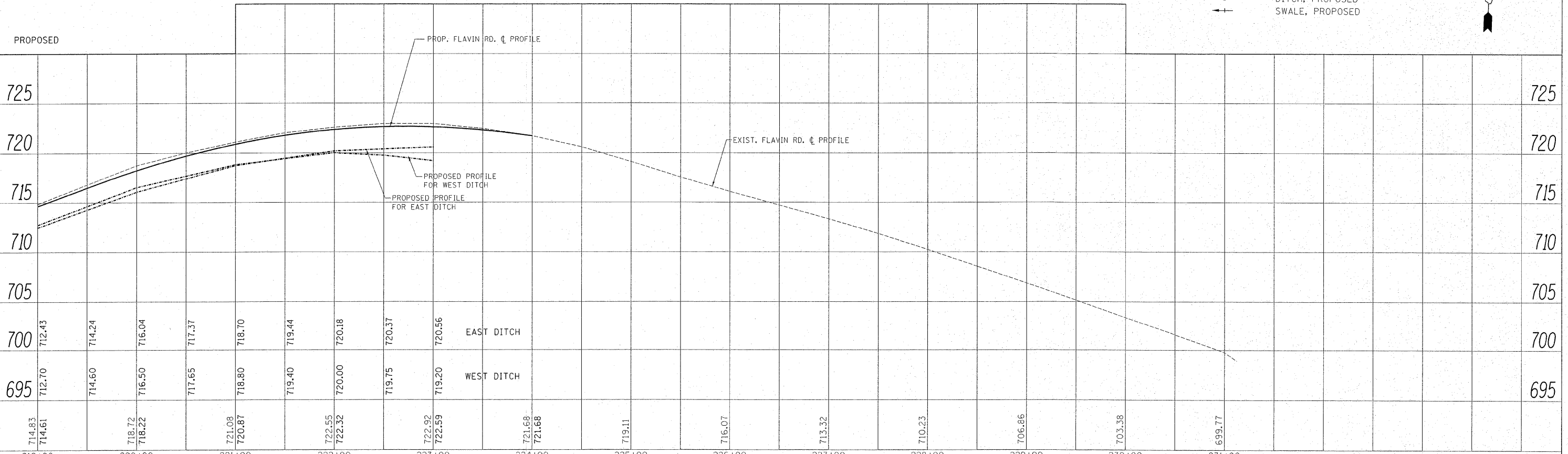


LEGEND

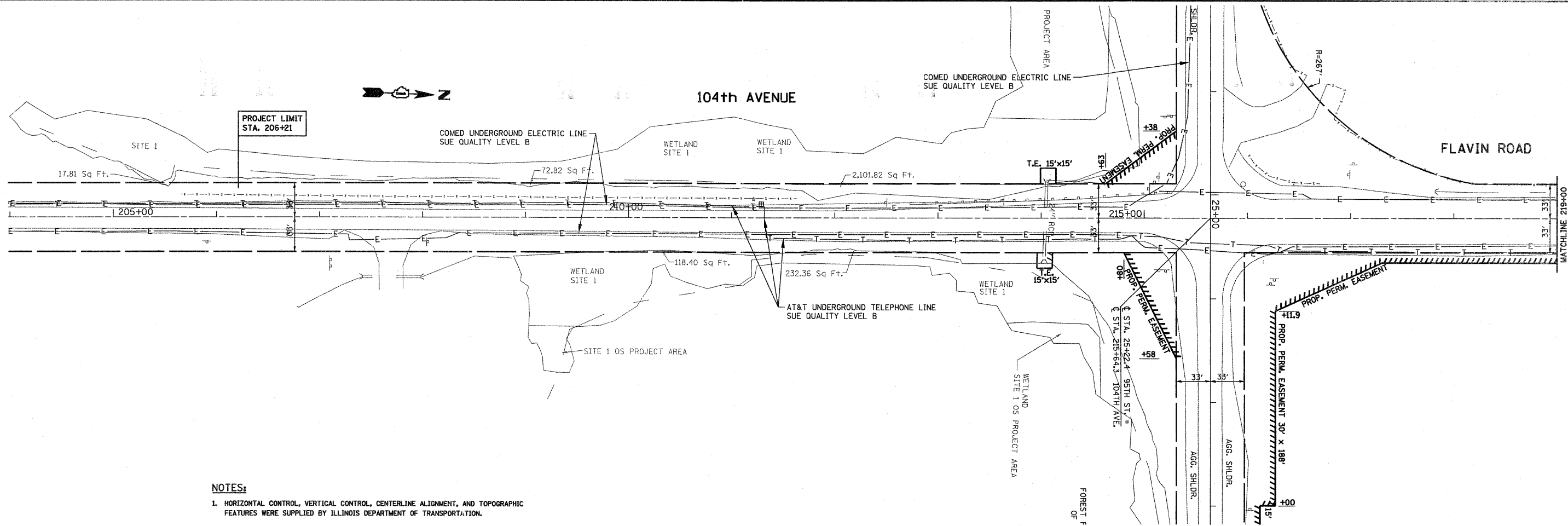
—○— STORM SEWER, EXISTING

—○— DITCH, PROPOSED

—+— SWALE, PROPOSED



FILE NAME =	USER NAME = steepp	DESIGNED -	REVISED -	STATE OF ILLINOIS DEPARTMENT OF TRANSPORTATION	104th AVE. / FLAVIN ROAD @ 95th STREET EXIST. & PROP. DRAINAGE PLAN	F.A.U. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.	
ct:\pw_work\p\widot\steepp\d0159937\p14449	sh-t-drain.dgn	DRAWN -	REVISED -			1566	29R-N-1	COOK	120	35	
		CHECKED -	REVISED -			CONTRACT NO. 62377					
		DATE -	REVISED -			ILLINOIS FED. AID PROJECT					



NOTES:
 1. HORIZONTAL CONTROL, VERTICAL CONTROL, CENTERLINE ALIGNMENT, AND TOPOGRAPHIC FEATURES WERE SUPPLIED BY ILLINOIS DEPARTMENT OF TRANSPORTATION.

LEGEND

- T — EXISTING UNDERGROUND TELEPHONE
- W — EXISTING UNDERGROUND WATER
- E — EXISTING UNDERGROUND ELECTRIC
- G — EXISTING UNDERGROUND GAS
- CTV — EXISTING UNDERGROUND CABLE TV

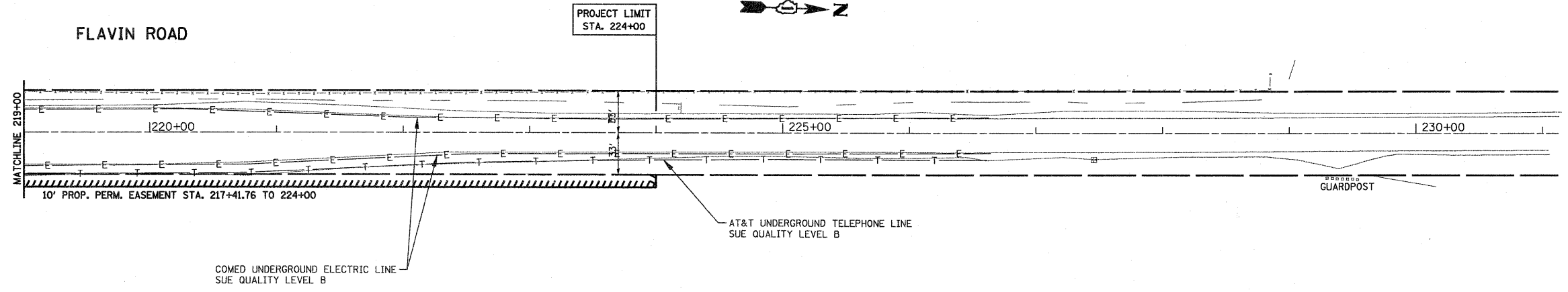
STATE OF ILLINOIS }
 COUNTY OF COOK } S.S.

UTILITY(IES) SHOWN HEREON HAVE BEEN INVESTIGATED BY ASE IN ACCORDANCE WITH SUE INDUSTRY STANDARDS QUALITY B (QLB). ALL OTHER INFORMATION SHOWN HAS BEEN PROVIDED BY OTHERS.

FIELD WORK WAS PERFORMED BETWEEN THE 16TH OF APRIL AND 22ND DAY OF APRIL, A.D., 2010.

IN WITNESS WHEREOF, I HAVE HEREUNTO SET MY HAND AND SEAL THIS 23RD DAY OF APRIL, A.D., 2010. CHICAGO, IL.

Steven M. Rienks
 STEVEN M. RIENKS - ILLINOIS PROFESSIONAL ENGINEER NUMBER 62-044619
 MY LICENSE EXPIRES 11/30/2011



AMERICAN
 SURVEYING & ENGINEERING, P.C.
 SURVEYORS - ENGINEERS
 GEODESISTS - MAPPING SCIENTISTS
 Chicago 312-277-2000 / Fax 312-277-2002
 Dixon 815-288-6231 / Fax 815-288-6277
 Aurora 630-897-4105 / Fax 630-897-4121
 Illinois Professional Design Firm No. 184-003192

FILE NAME = P144499-aht-dra.mxd

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PLOT SCALE = 500.000' / IN.	DRAWN -	REVISED -
PLOT DATE = 4/23/2010	CHECKED -	REVISED -
	DATE -	REVISED -

STATE OF ILLINOIS
 DEPARTMENT OF TRANSPORTATION

95th STREET @ 104th AVENUE / FLAVIN ROAD SUE STUDY PLAN	F.A.U. RTE. 1566	SECTION 29 R-N-1	COUNTY COOK	TOTAL SHEETS 120	SHEET NO. 37
SCALE: 1"=50'	SHEET NO. OF SHEETS STA. 204+00 TO STA. 231+00		ILLINOIS FED. AID PROJECT		

F.A.U. RTE. 1566	SECTION 29 R-N-1	COUNTY COOK	TOTAL SHEETS 120	SHEET NO. 37
CONTRACT NO. 62377				

PART OF THE SW 1/4 OF SECTION 4, PART OF THE NE 1/4 OF SECTION 8 AND PART OF THE NW 1/4 OF SECTION 9, ALL IN T37N, R12 EAST OF THE 3rd PM, COOK COUNTY, ILLINOIS.

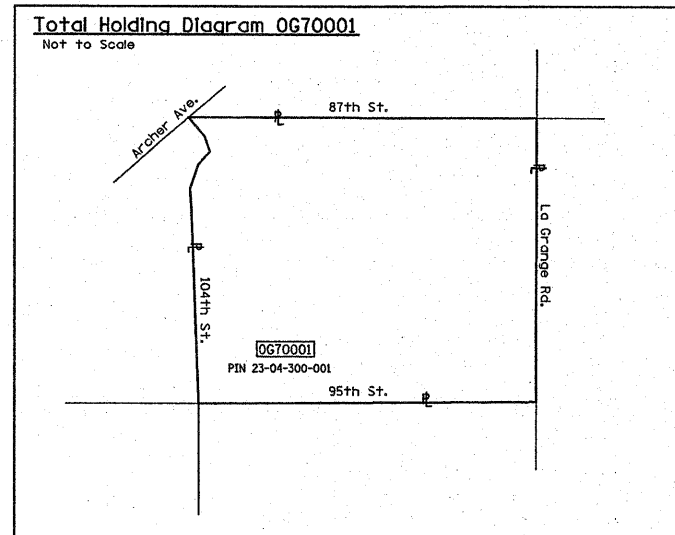
F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
95th ST.		COOK	120	38
STATION 25+00.00 TO STATION 35+00.00				
FED. ROAD DIST. NO. 1 ILLINOIS FED. AID PROJECT				

BASIS OF BEARINGS IS THE ILLINOIS STATE PLANE COORDINATE SYSTEM, EAST ZONE, NAD 83.



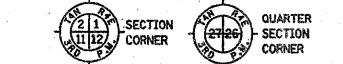
PARCEL NO.	OWNER	TOTAL HOLDING ACRES	R.O.W. REQUIRED ACRES	PREVIOUSLY DEDICATED ACRES	REMAINDER ACRES	EASEMENTS TEMP ACRES	PERM ACRES	EASEMENT PURPOSE	PERMANENT TAX NUMBER	PROPERTY ACQUIRED BY
0670001	FOREST PRESERVE DISTRICT OF COOK COUNTY	**809.7±	N/A	N/A	**809.7±	N/A	0.596	N/A	23-04-300-001	

** AREAS OF CONTIGUOUS PROPERTY CALCULATED USING EXISTING PLATS AND RECORDS.



LEGEND

- EXISTING CENTERLINE
- - - PROPOSED CENTERLINE
- EXISTING RIGHT OF WAY LINE
- - - PROPOSED RIGHT OF WAY LINE
- - - PROPOSED EASEMENT LINE
- - - SECTION LINE
- - - QUARTER SECTION LINE
- - - QUARTER QUARTER SECTION LINE
- - - PROPERTY IDEED LINE
- APL APPARENT PROPERTY LINE
- 121.45 MEASURED DIMENSION
- 123.45 (COMP) COMPUTED DIMENSION
- (23.45) RECORDED DIMENSION
- FOUND IRON PIPE OR IRON ROD
- SET 5/8 INCH IRON ROD
- PERMANENT SURVEY MONUMENT
- I.D.O.T. STD. 2135 (TO BE SET BY OTHERS)
- ⊕ CUT CROSS FOUND OR SET
- SAME OWNERSHIP
- TEL EXISTING TELEPHONE SPLICE BOX
- LG7 EXISTING STREET LIGHT
- MAIL EXISTING MAIL BOX
- WELL EXISTING WELL HEAD
- STAKING OF PROPOSED RIGHT OF WAY. SET 5/8 INCH METAL ROD WITH DIVISION OF HIGHWAY SURVEY MARKER TO MONUMENT THE POSITION SHOWN IDENTIFIED BY INSCRIPTION DATA AND SURVEYORS REGISTRATION NUMBER.
- M STAKING OF PROPOSED RIGHT OF WAY IN CULTIVATED AREAS. SET 5/8 INCH METAL ROD WITH DIVISION OF HIGHWAY SURVEY MARKER 20 INCHES BELOW GROUND SURFACE TO MONUMENT THE POSITION SHOWN IDENTIFIED BY INSCRIPTION DATA AND SURVEYORS REGISTRATION NUMBER.



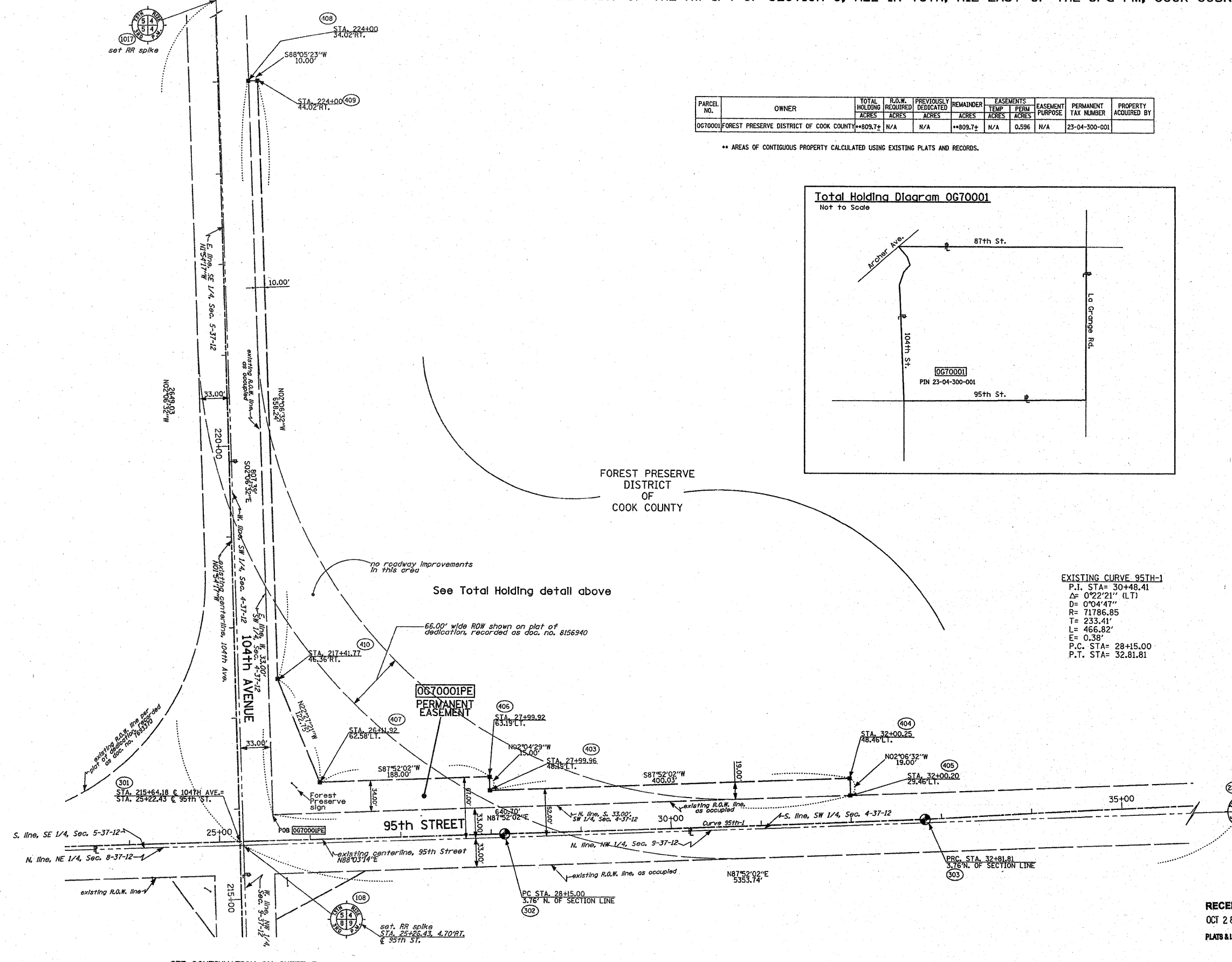
STATE OF ILLINOIS)
) SS
 COUNTY OF WILL)

THIS IS TO CERTIFY THAT RUETTIGER, TONELLI & ASSOCIATES, INC., AN ILLINOIS DESIGN FIRM, HAS SURVEYED THE PLAT OF HIGHWAYS SHOWN HEREON IN SECTIONS 4, 8 AND 9, TOWNSHIP 37 NORTH, RANGE 12 EAST OF THE THIRD PRINCIPAL MERIDIAN, COOK COUNTY, THAT THE SURVEY IS TRUE AND COMPLETE AS SHOWN TO THE BEST OF MY KNOWLEDGE AND BELIEF, THAT THE PLAT CORRECTLY REPRESENTS SAID SURVEY, THAT ALL MONUMENTS FOUND AND ESTABLISHED ARE OF PERMANENT QUALITY AND OCCUPY THE POSITIONS SHOWN THEREON AND THAT THE MONUMENTS ARE SUFFICIENT TO ENABLE THE SURVEY TO BE RETRACED, MADE FOR THE DEPARTMENT OF TRANSPORTATION, STATE OF ILLINOIS.

DATED AT JOLIET, ILLINOIS THIS _____ DAY OF _____ A.D.

RONALD F. HODGEN P.L.S. NO. 2630
 MY LICENSE EXPIRES 11-30-2010

EXISTING CURVE 95TH-1
 P.I. STA= 30+48.41
 Δ= 0°22'21" (LT)
 D= 0°04'47"
 R= 71786.85
 T= 233.41'
 L= 466.82'
 E= 0.38'
 P.C. STA= 28+15.00
 P.T. STA= 32.81.81



RUETTIGER, TONELLI & ASSOCIATES, INC.
 Lead Surveyors/Engineers/Planners/Designers/Architects/L.S. Consultants
 214 ONEDA STREET
 JOLIET, ILLINOIS 60438
 PH. (815) 744-6600 FAX (815) 744-0001

ILLINOIS DEPARTMENT OF TRANSPORTATION
 PLAT OF HIGHWAYS
 95th STREET at 104th AVENUE
 COOK COUNTY
 JOB NO. R90-040-01
 STATION 25+00 TO STATION 32+00

RECEIVED
 OCT 28 2009
 PLATS & LEGALS

SCALE: 1" = 50'
 SHEET 2 OF 3
 ILLINOIS DEPARTMENT OF TRANSPORTATION
 DIVISION OF HIGHWAYS/DISTRICT 2
 201 W. CENTER STREET
 SCHAMBERG, ILLINOIS 60096-1036
 SHEET 1 OF -- IS A COVER SHEET AND IS NOT RECORDED
 RT&A 20060650 (95TH STREET)

SEE CONTINUATION ON SHEET 3

REVISED: 9-28-09/ UPDATED SHEETS TO CURRENT LINETYPES & ADDED TH DIAGRAM

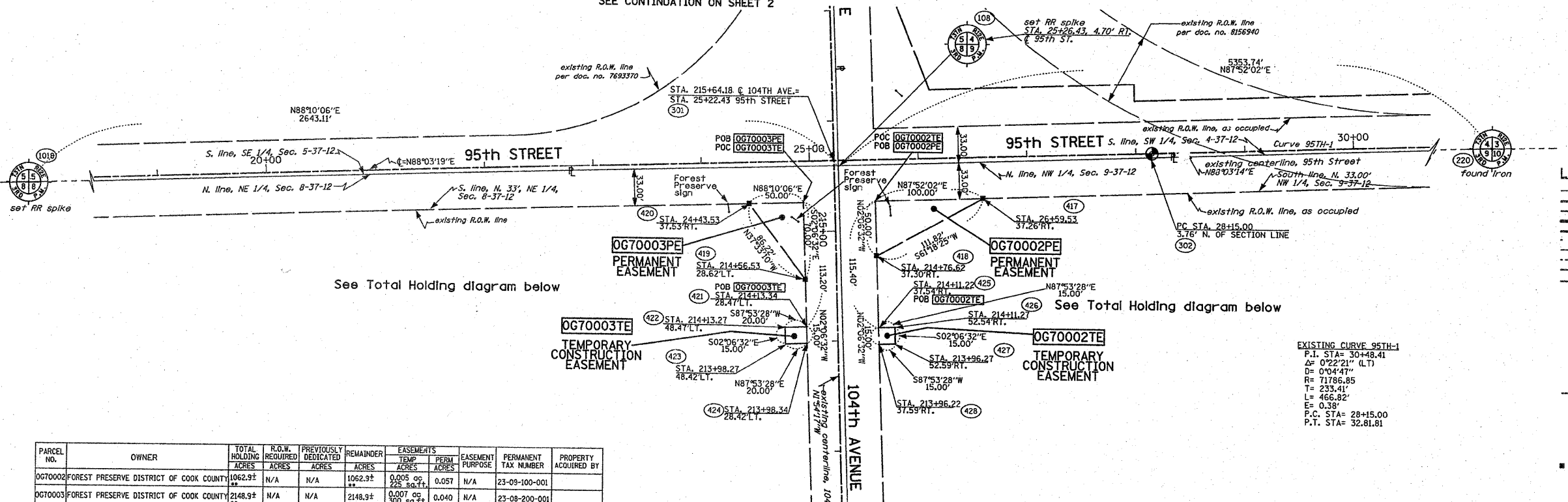
PART OF THE SW 1/4 OF SECTION 4, PART OF THE NE 1/4 OF SECTION 8 AND PART OF THE NW 1/4 OF SECTION 9, ALL IN T37N, R12 EAST OF THE 3rd PM, COOK COUNTY, ILLINOIS.

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
95th ST.		COOK	120	39
STATION 20+00.00		TO STATION 30+00.00		
FED. ROAD DIST. NO. ILLINOIS		FED. AID PROJECT		

BASIS OF BEARINGS IS THE ILLINOIS STATE PLANE COORDINATE SYSTEM, EAST ZONE, NAD 83.



- LEGEND**
- EXISTING CENTERLINE
 - PROPOSED CENTERLINE
 - EXISTING RIGHT OF WAY LINE
 - PROPOSED RIGHT OF WAY LINE
 - PROPOSED EASEMENT LINE
 - SECTION LINE
 - QUARTER SECTION LINE
 - QUARTER QUARTER SECTION LINE
 - PROPERTY (DEED) LINE
 - APL
 - APPARENT PROPERTY LINE
 - 121.45 MEASURED DIMENSION
 - 123.45 (COMP) COMPUTED DIMENSION
 - (123.45) RECORDED DIMENSION
 - FOUND IRON PIPE OR IRON ROD
 - SET 1/2 INCH IRON ROD PERMANENT SURVEY MONUMENT.
 - I.O.T. STD. 215 (TO BE SET BY OTHERS)
 - + CUT CROSS FOUND OR SET
 - SAME OWNERSHIP
 - TEL EXISTING TELEPHONE SPlice BOX
 - LGT EXISTING STREET LIGHT
 - MAIL BOX EXISTING MAIL BOX
 - WELL EXISTING WELL HEAD
 - STAKING OF PROPOSED RIGHT OF WAY. SET 1/2 INCH METAL ROD WITH DIVISION OF HIGHWAY SURVEY MARKER TO MONUMENT THE POSITION SHOWN, IDENTIFIED BY INSCRIPTION DATA AND SURVEYORS REGISTRATION NUMBER.
 - STAKING OF PROPOSED RIGHT OF WAY IN CULTIVATED AREAS. SET 1/2 INCH METAL ROD WITH DIVISION OF HIGHWAY SURVEY MARKER 20 INCHES BELOW GROUND SURFACE TO MONUMENT THE POSITION SHOWN, IDENTIFIED BY INSCRIPTION DATA AND SURVEYORS REGISTRATION NUMBER.

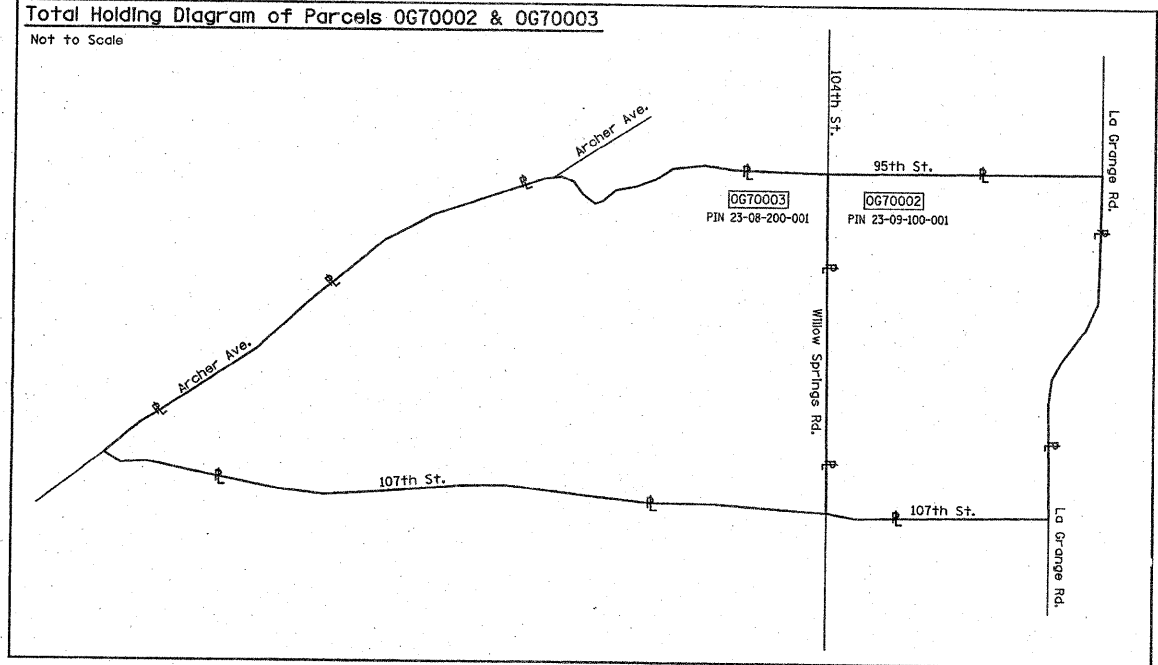


See Total Holding diagram below

See Total Holding diagram below

PARCEL NO.	OWNER	TOTAL HOLDING ACRES	R.O.W. DEDICATED ACRES	PREVIOUSLY DEDICATED ACRES	REMAINDER ACRES	EASEMENTS		EASEMENT PURPOSE	PERMANENT TAX NUMBER	PROPERTY ACQUIRED BY
						TEMP ACRES	PERM ACRES			
OG70002	FOREST PRESERVE DISTRICT OF COOK COUNTY	1062.9±	N/A	N/A	1062.9±	0.005	0.057	N/A	23-09-100-001	
OG70003	FOREST PRESERVE DISTRICT OF COOK COUNTY	2148.9±	N/A	N/A	2148.9±	0.007	0.040	N/A	23-08-200-001	

** AREAS OF CONTIGUOUS PROPERTY CALCULATED USING EXISTING PLATS AND RECORDS.



STATE OF ILLINOIS)
 COUNTY OF WILL)

THIS IS TO CERTIFY THAT RUETTIGER, TONELLI & ASSOCIATES, INC., AN ILLINOIS DESIGN FIRM, HAS SURVEYED THE PLAT OF HIGHWAYS SHOWN HEREON IN SECTIONS 4, 8 AND 9, TOWNSHIP 37 NORTH, RANGE 12 EAST OF THE THIRD PRINCIPAL MERIDIAN, COOK COUNTY. THAT THE SURVEY IS TRUE AND COMPLETE AS SHOWN TO THE BEST OF MY KNOWLEDGE AND BELIEF, THAT THE PLAT CORRECTLY REPRESENTS SAID SURVEY, THAT ALL MONUMENTS FOUND AND ESTABLISHED ARE OF PERMANENT QUALITY AND OCCUPY THE POSITIONS SHOWN THEREON AND THAT THE MONUMENTS ARE SUFFICIENT TO ENABLE THE SURVEY TO BE RETRACED, MADE FOR THE DEPARTMENT OF TRANSPORTATION, STATE OF ILLINOIS.

DATED AT JOLIET, ILLINOIS THIS _____ DAY OF _____ A.D.

RONALD F. HODGEN P.L.S. NO. 2630
 MY LICENSE EXPIRES 11-30-2010

RUETTIGER, TONELLI & ASSOCIATES, INC.
 Land Surveyors/Engineers/Planners/Landscape Architects/G.E.S. Consultants
 2114 QUEDA STREET
 JOLIET, ILLINOIS 60431
 PH (815) 744-5600 FAX (815) 744-0111

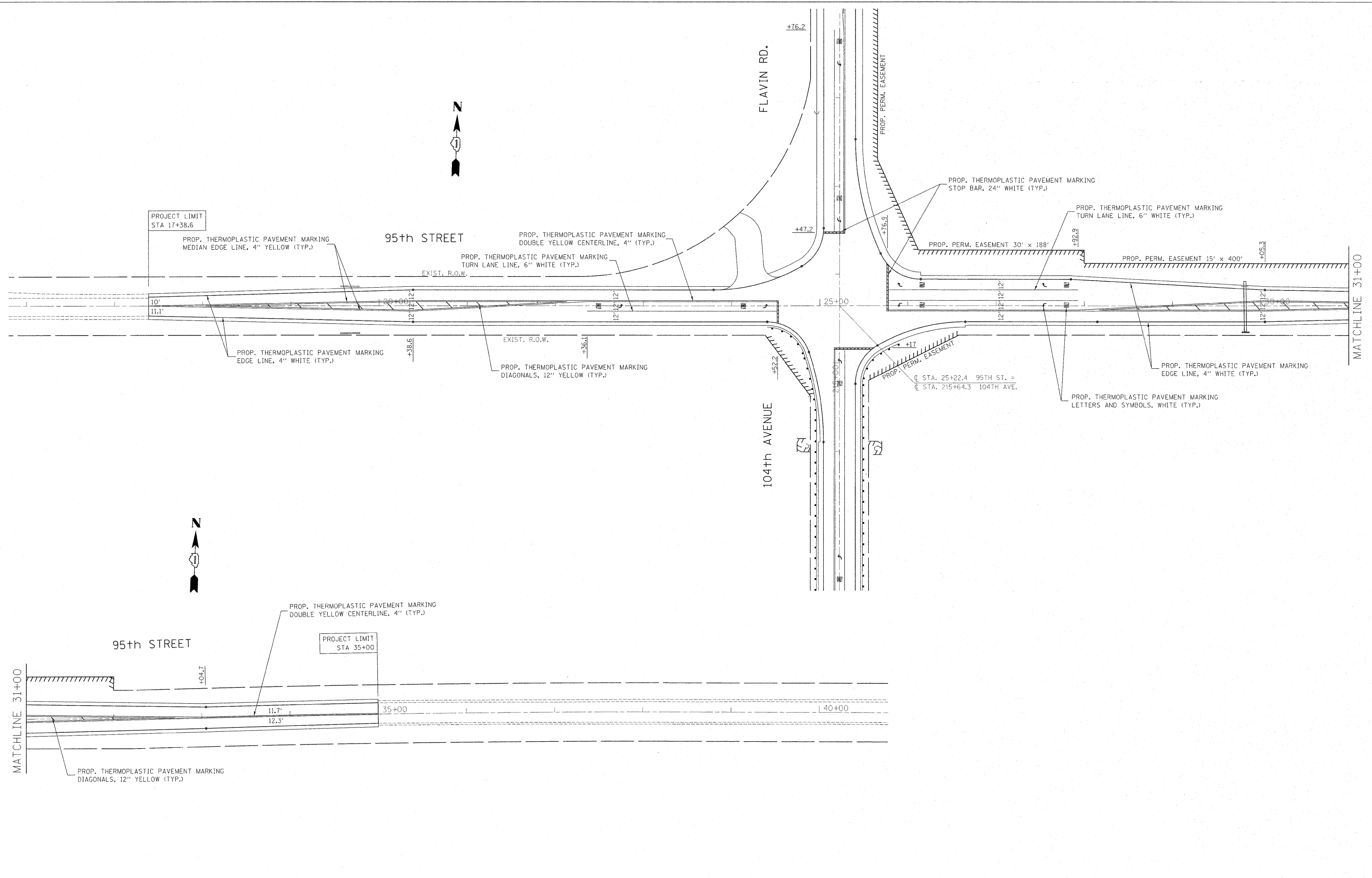
ILLINOIS DEPARTMENT OF TRANSPORTATION
PLAT OF HIGHWAYS
 95th STREET at 104th AVENUE
 COOK COUNTY
 JOB NO. R90-040-01
 STATION 100+00 TO STATION 119+08.13

RECEIVED
 OCT 28 2009
 PLATS & LEGALS

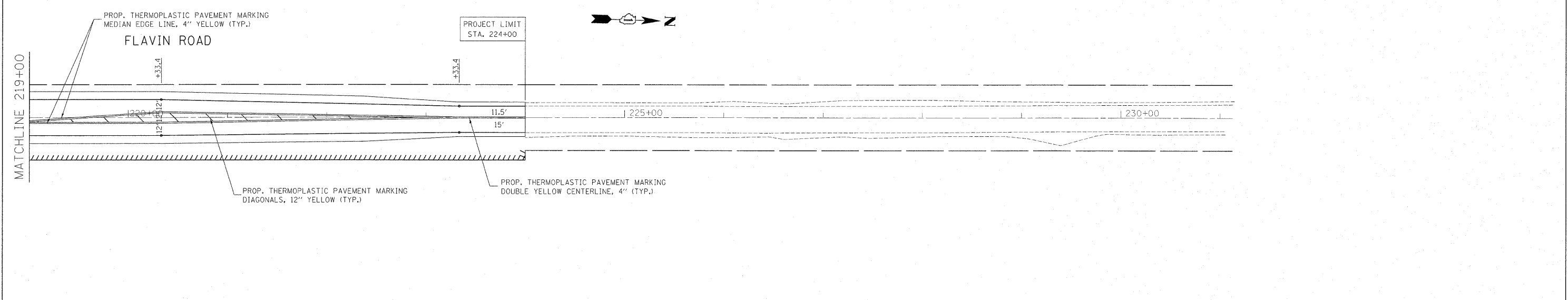
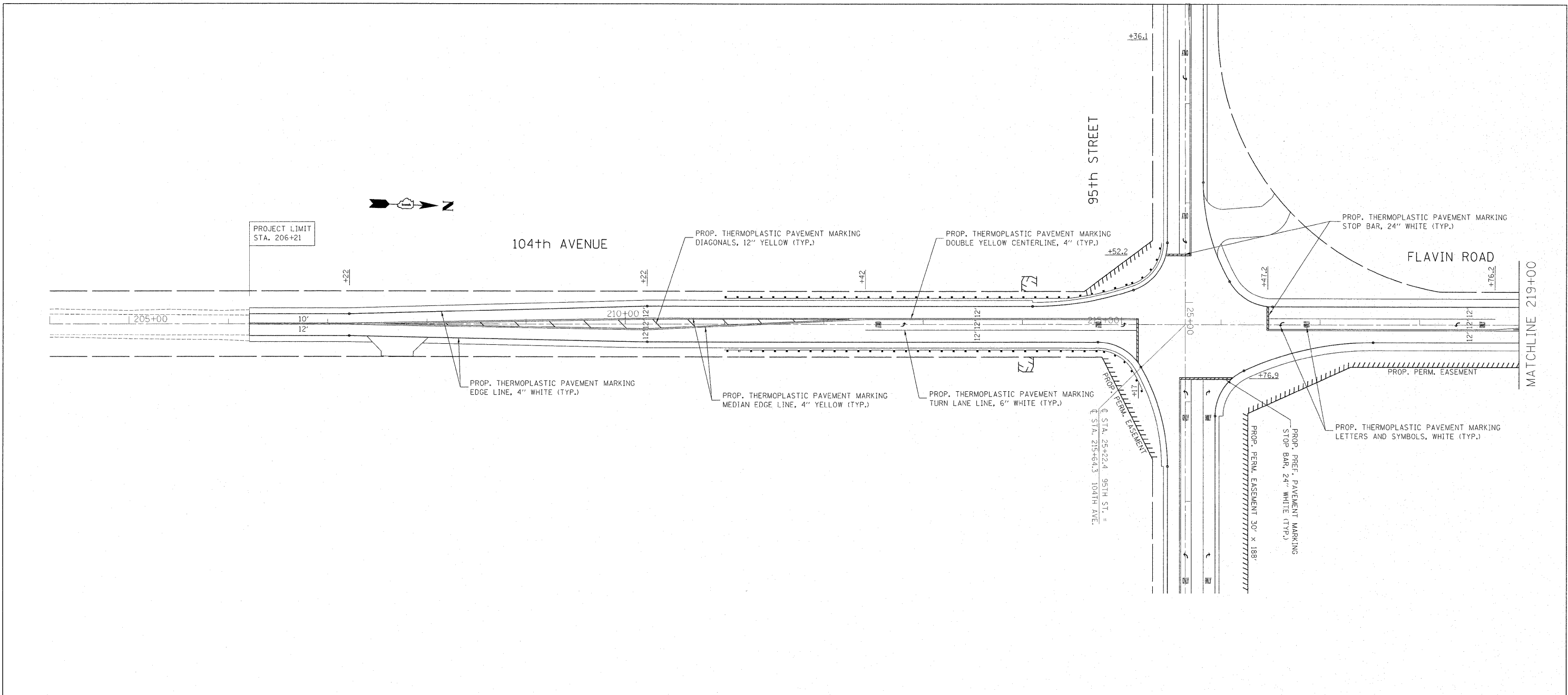
SCALE: 1" = 50' SHEET 3 OF 3

ILLINOIS DEPARTMENT OF TRANSPORTATION
 DIVISION OF HIGHWAYS/DISTRICT 1
 201 W. CENTER COURT
 SCHMIDGALL, ILLINOIS 60081-1096

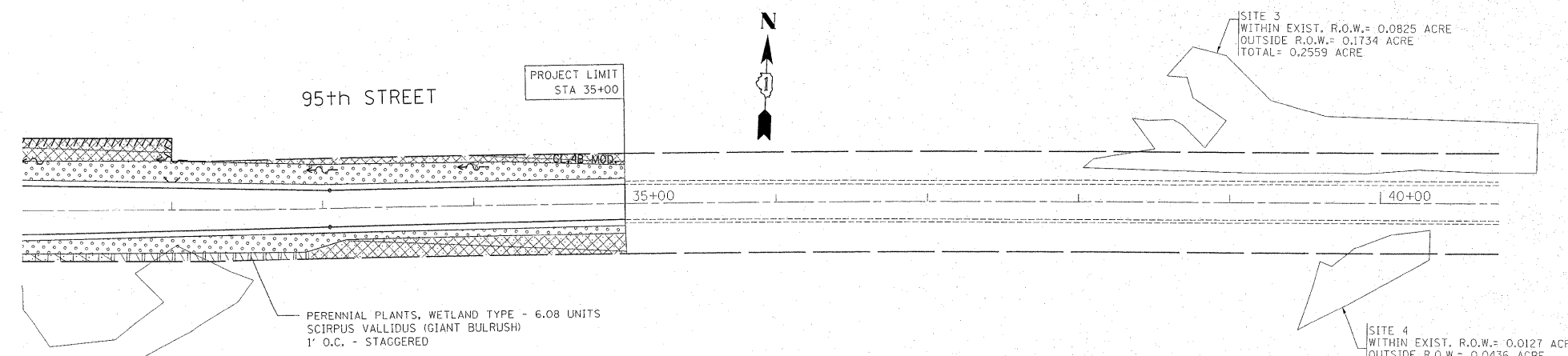
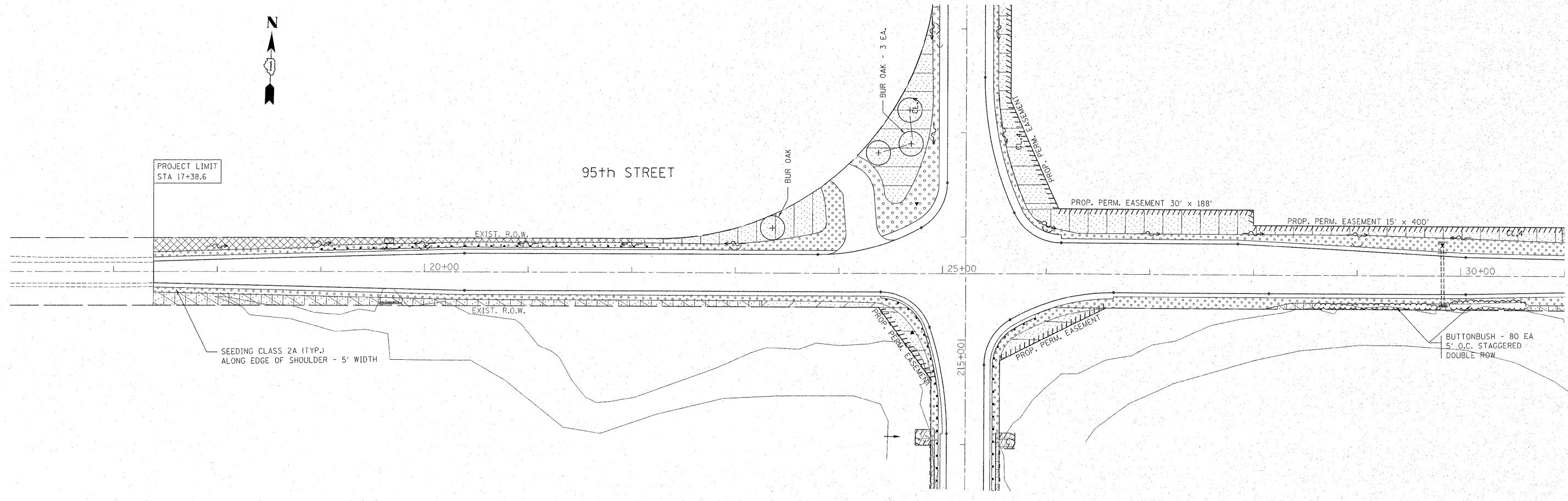
REVISED: 9-28-09/ UPDATED TO CURRENT LINETYPES & ADDED TH DIAGRAM



FILE NAME = c:\pwork\pwork\stedpe\d0159915\p144499-Design.dgn	USER NAME = stedpe	DESIGNED -	REVISED -	STATE OF ILLINOIS DEPARTMENT OF TRANSPORTATION	95TH STREET 104TH AVE./FLAVIN ROAD PAVEMENT MARKING PLAN		F.A.U. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
	PLOT SCALE = 50,1338' / in.	CHECKED -	REVISED -				1566	29 R-N-1	COOK	120	40
PLOT DATE = 1/19/2012	DATE -	REVISED -	REVISED -	SCALE: SHEET NO. OF SHEETS STA. TO STA.		CONTRACT NO. 62377		ILLINOIS FED. AID PROJECT			

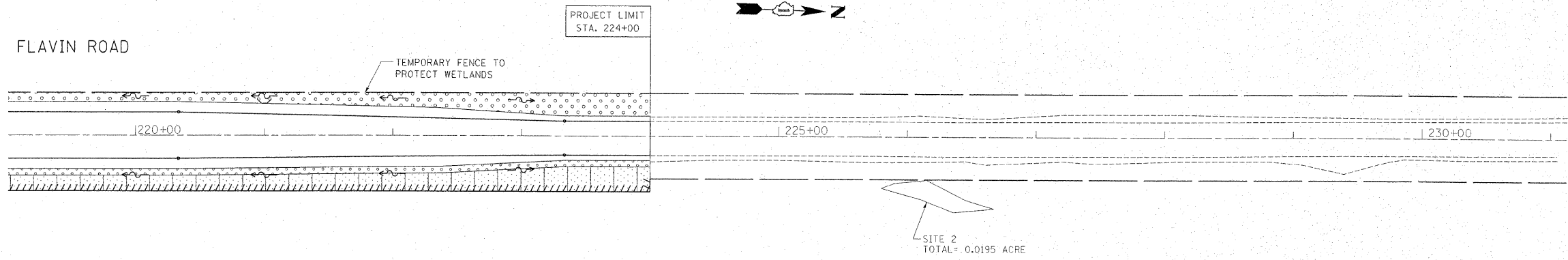
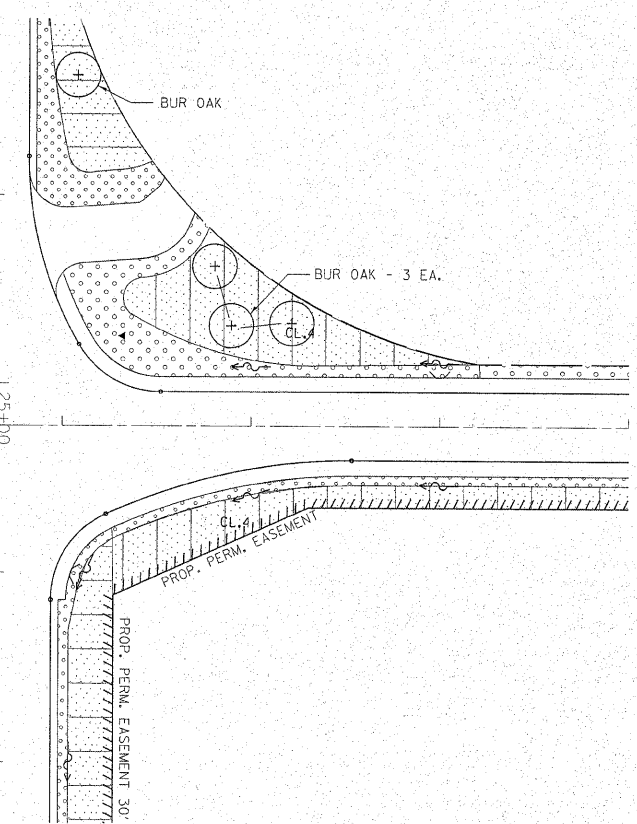
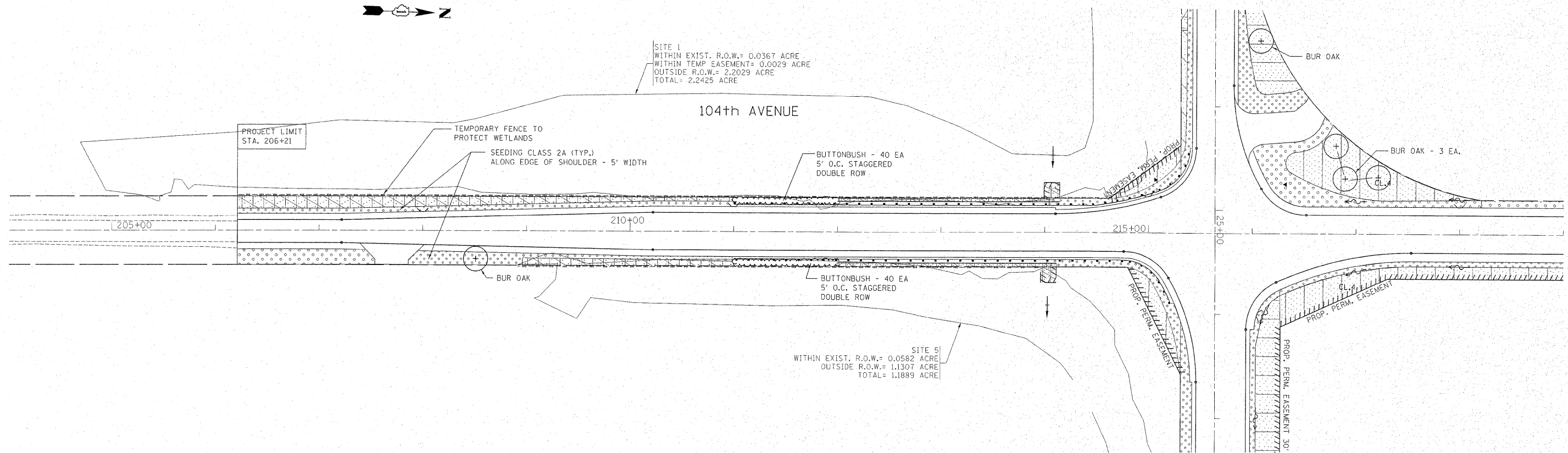


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PLOT DATE = 1/19/2012	DATE -	REVISED -	SCALE:		SHEET NO.	OF	SHEETS	STA.	TO	STA.	CONTRACT NO. 62377	
										ILLINOIS FED. AID PROJECT		



- LEGEND**
- TEMPORARY FENCE TO PROTECT WETLANDS
 - SHRUBS
 - PR SHADE TREE
 - UNDERSTORY, INTERMEDIATE TREE
 - SEEDING CLASS 2A FERTILIZER NUTRIENTS TOPSOIL FURNISH & PLACE, 4"
 - SEEDING CLASS 4 COMPOST FURNISH & PLACE, 4"
 - SEEDING CLASS 4 (MODIFIED) COMPOST FURNISH & PLACE, 4"
 - SEEDING CLASS 4B MODIFIED COMPOST FURNISH & PLACE, 4"
 - PERENNIAL PLANTS
- ALL SEDIMENT AREAS SHALL BE COVERED WITH EROSION CONTROL BLANKET

FILE NAME =	USER NAME = steedpo	DESIGNED -	REVISED - 10/27/10 S. LIPKIE	STATE OF ILLINOIS DEPARTMENT OF TRANSPORTATION	95TH ST. 104TH AVE./FLAVIN RD. PROPOSED LANDSCAPING PLAN	F.A.J. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.	
c:\pw\work\pwwork\stedpo\d0159937\PI144	99-shr-landsc.dgn	DRAWN -	REVISED -			1566	29-R-N-1	COOK	120	42	
	PLOT SCALE = 50,000 ' / in.	CHECKED -	REVISED -			CONTRACT NO. 62377					
	PLOT DATE = 12/20/2011	DATE -	REVISED -			ILLINOIS FED. AID PROJECT					



- LEGEND**
- TEMPORARY FENCE TO PROTECT WETLANDS
 - SHRUBS
 - PR SHADE TREE
 - UNDERSTORY, INTERMEDIATE TREE
 - SEEDING CLASS 2A FERTILIZER NUTRIENTS TOPSOIL FURNISH & PLACE, 4"
 - SEEDING CLASS 4 COMPOST FURNISH & PLACE, 4"
 - SEEDING CLASS 4 (MODIFIED) COMPOST FURNISH & PLACE, 4"
 - SEEDING CLASS 4B MODIFIED COMPOST FURNISH & PLACE, 4"
 - PERENNIAL PLANTS
- ALL SEDIMENT AREAS SHALL BE COVERED WITH EROSION CONTROL BLANKET

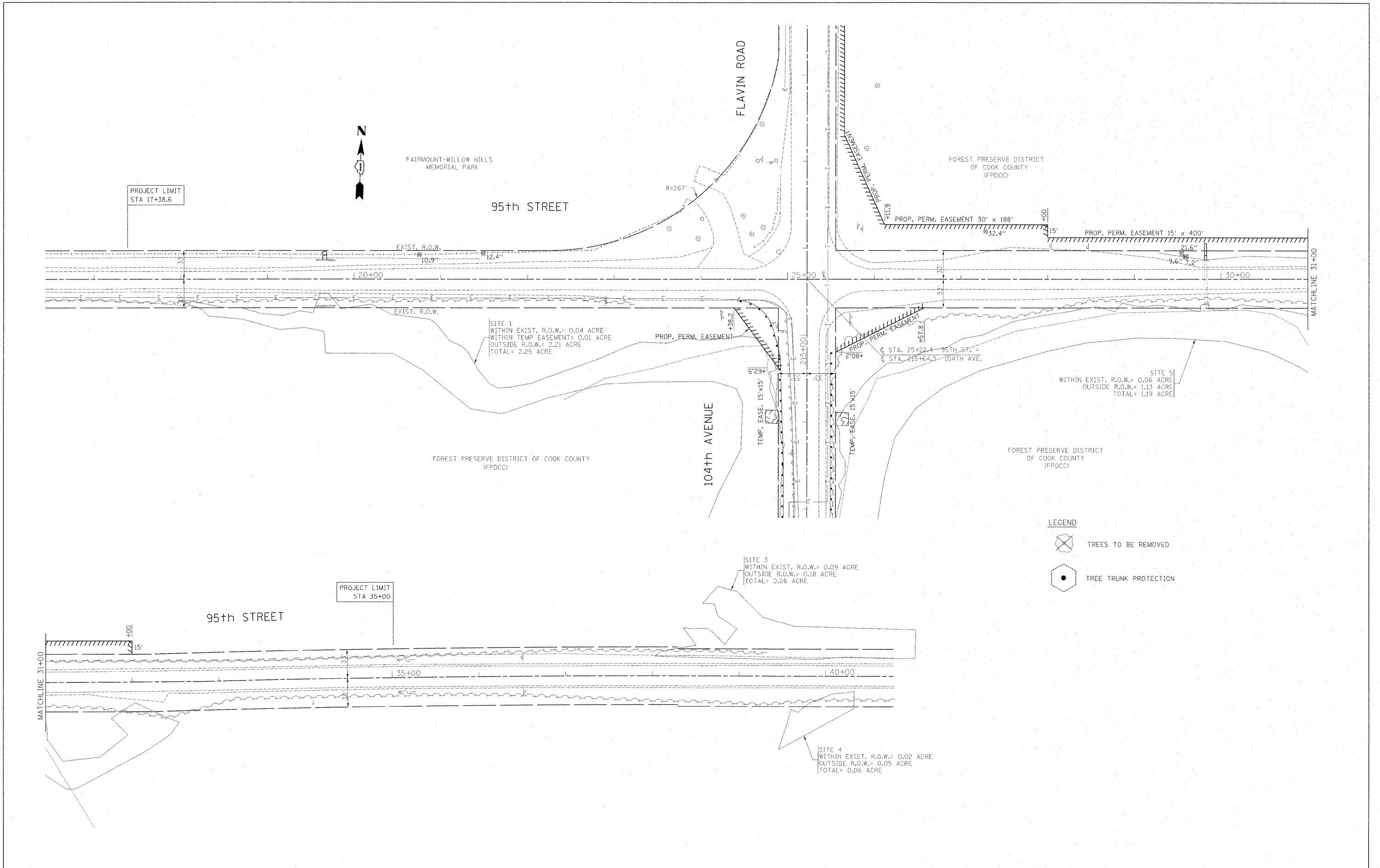
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	PLOT DATE = 12/20/2011	DATE -	REVISED -

**STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION**

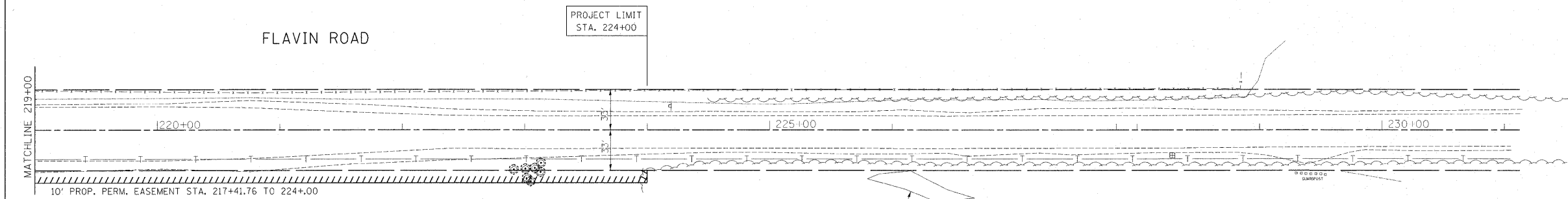
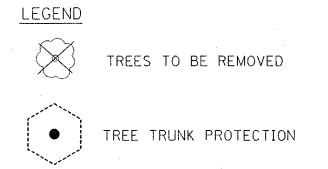
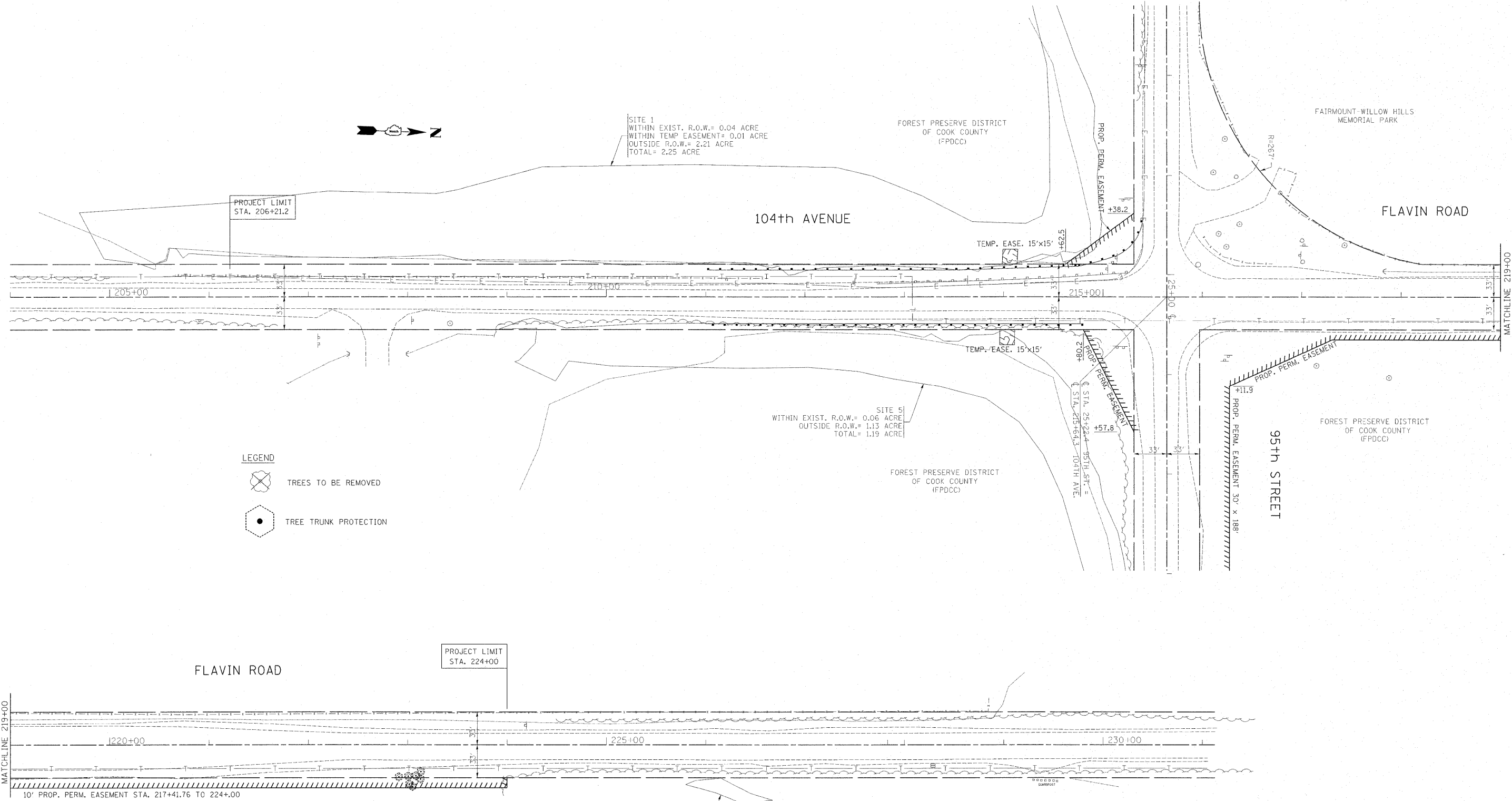
**95TH ST. 104TH AVE./FLAVIN RD.
PROPOSED LANDSCAPING PLAN**

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

F.A.U. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
1566	29-R-N-1	COOK	120	43
CONTRACT NO. 62377			ILLINOIS FED. AID PROJECT	



FILE NAME =	USER NAME = steedpe	DESIGNED -	REVISED -	STATE OF ILLINOIS DEPARTMENT OF TRANSPORTATION	TREE REMOVAL PLAN 95th STREET @ 104th AVENUE/ FLAVIN ROAD			F.A.U. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.			
c:\px\work\p\dot\stedpe\d\159915\PI4499-Design.dgn	DRAWN -	REVISED -	REVISED -		SCALE:	SHEET NO.	OF	SHEETS	STA.	TO STA.	1566	29 R-N-1	COOK	120	44
PLOT SCALE = 50.0000' / in.	CHECKED -	REVISED -	REVISED -		CONTRACT NO. 62377										
PLOT DATE = 2/3/2012	DATE -	REVISED -	REVISED -		ILLINOIS FED. AID PROJECT										

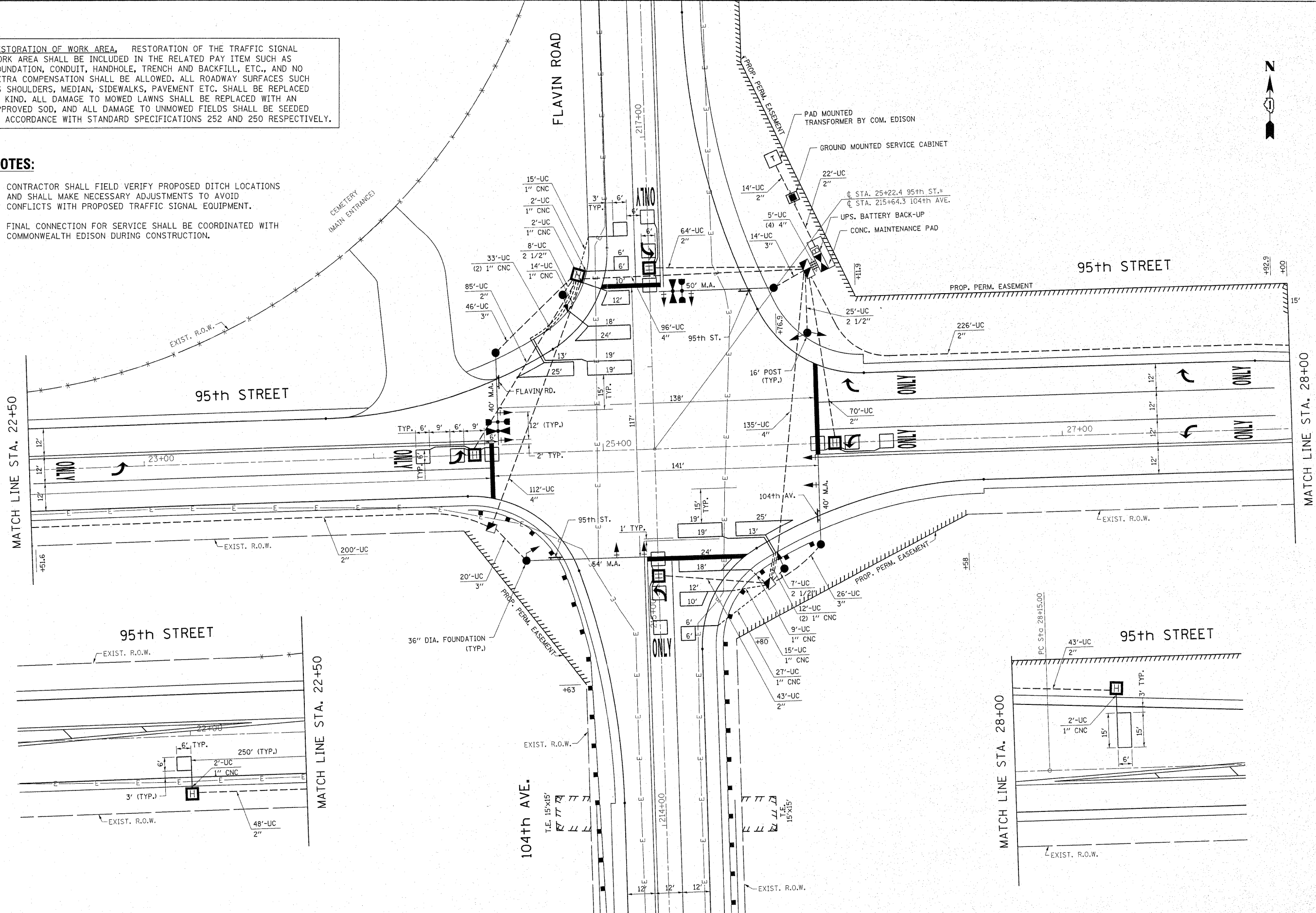


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ca\pw\work\pwwdot\steedpa\08159915\F14409-Design.dgn		DRAWN -	REVISED -		SCALE:	SHEET NO.	OF	SHEETS	STA.	TO STA.	1566	29 R-N-1	COOK	120	45
		CHECKED -	REVISED -												
		DATE -	REVISED -												
													CONTRACT NO. 62377		
													ILLINOIS FED. AID PROJECT		

RESTORATION OF WORK AREA, RESTORATION OF THE TRAFFIC SIGNAL WORK AREA SHALL BE INCLUDED IN THE RELATED PAY ITEM SUCH AS FOUNDATION, CONDUIT, HANDHOLE, TRENCH AND BACKFILL, ETC., AND NO EXTRA COMPENSATION SHALL BE ALLOWED. ALL ROADWAY SURFACES SUCH AS SHOULDERS, MEDIAN, SIDEWALKS, PAVEMENT ETC. SHALL BE REPLACED IN KIND. ALL DAMAGE TO MOWED LAWNS SHALL BE REPLACED WITH AN APPROVED SOD, AND ALL DAMAGE TO UNMOWED FIELDS SHALL BE SEEDED IN ACCORDANCE WITH STANDARD SPECIFICATIONS 252 AND 250 RESPECTIVELY.

NOTES:

- CONTRACTOR SHALL FIELD VERIFY PROPOSED DITCH LOCATIONS AND SHALL MAKE NECESSARY ADJUSTMENTS TO AVOID CONFLICTS WITH PROPOSED TRAFFIC SIGNAL EQUIPMENT.
- FINAL CONNECTION FOR SERVICE SHALL BE COORDINATED WITH COMMONWEALTH EDISON DURING CONSTRUCTION.



FILE NAME =	USER NAME = pocteehal	DESIGNED -	REVISED - BCK 4/5/10
c:\pwwork\pwwork\pocteehal\d0113528\95	0104.th.dgn	DRAWN -	REVISED - LP 1/12/12
	PLOT SCALE = 20.000' / 1"	CHECKED -	REVISED - LP 1/20/12
	PLOT DATE = 1/20/2012	DATE -	REVISED -

**STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION**

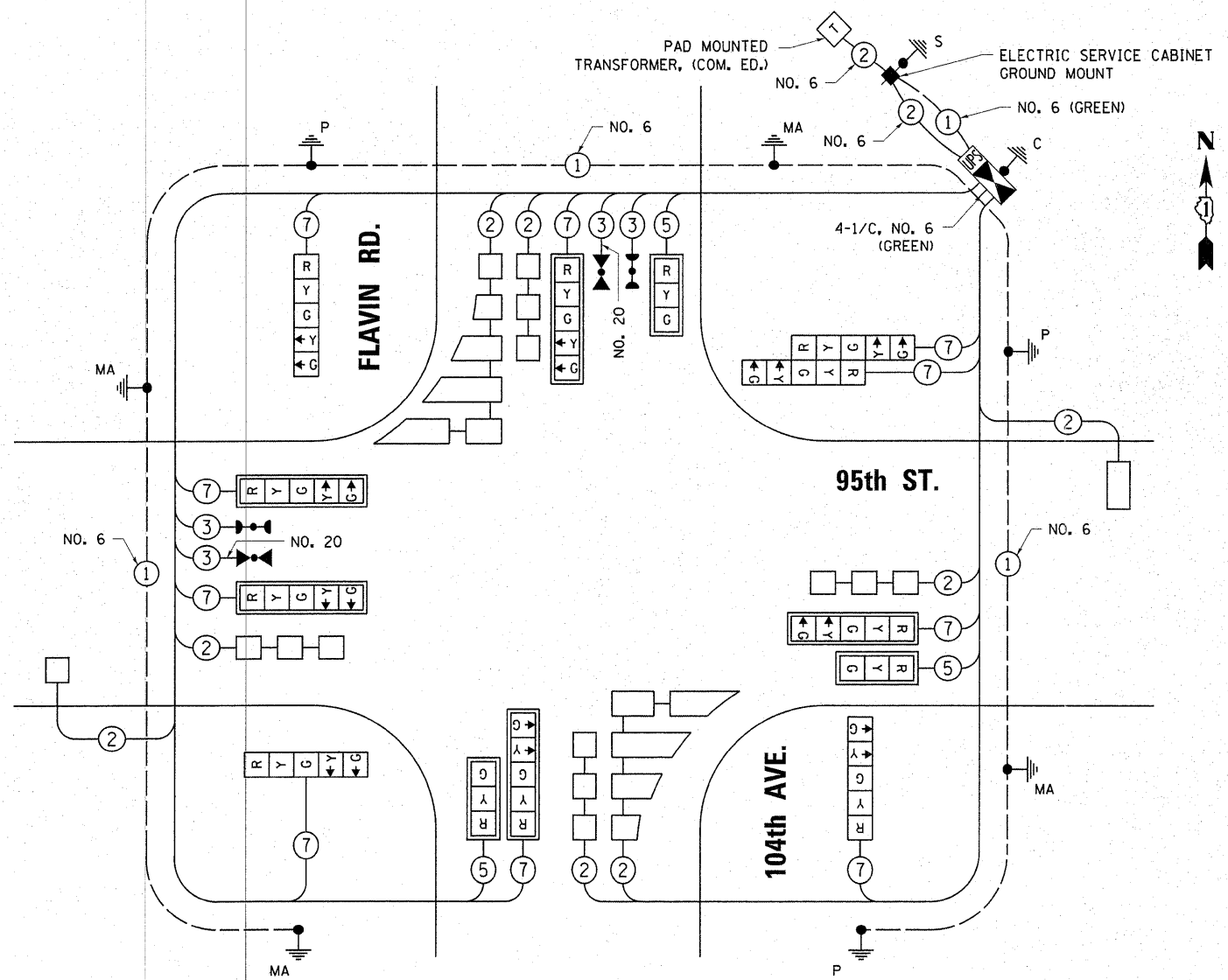
TRAFFIC SIGNAL INSTALLATION PLAN			
95th STREET AT 104th AVENUE / FLAVIN ROAD			
SCALE: 1"=20'	SHEET NO. OF SHEETS	STA. TO STA.	

F.A.U. RTE. 1566	SECTION 29R-N-1	COUNTY COOK	TOTAL SHEETS 120	SHEET NO. 46
ILLINOIS FED. AID PROJECT				CONTRACT NO. 62377

SCHEDULE OF QUANTITIES

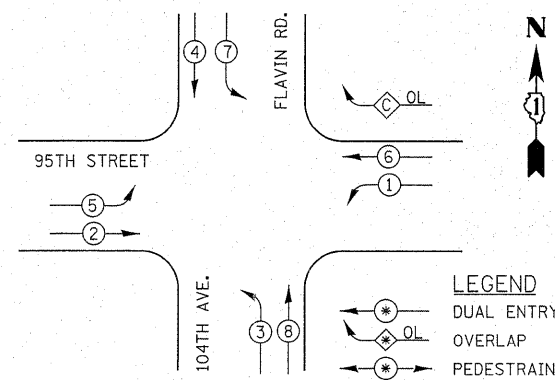
ITEM	UNIT	TOTAL QTY.
SIGN PANEL - TYPE 1	SQ FT	39
SERVICE INSTALLATION - GROUND MOUNTED	EACH	1
UNDERGROUND CONDUIT, GALVANIZED STEEL, 2" DIA.	FOOT	815
UNDERGROUND CONDUIT, GALVANIZED STEEL, 2 1/2" DIA.	FOOT	40
UNDERGROUND CONDUIT, GALVANIZED STEEL, 3" DIA.	FOOT	106
UNDERGROUND CONDUIT, GALVANIZED STEEL, 4" DIA.	FOOT	363
HANDHOLE	EACH	2
HEAVY-DUTY HANDHOLE	EACH	7
DOUBLE HANDHOLE	EACH	1
FULL-ACTUATED CONTROLLER AND TYPE IV CABINET	EACH	1
* ELECTRIC CABLE IN CONDUIT, SIGNAL NO. 14 3C	FOOT	340
ELECTRIC CABLE IN CONDUIT, SIGNAL NO. 14 5C	FOOT	668
ELECTRIC CABLE IN CONDUIT, SIGNAL NO. 14 7C	FOOT	1,913
ELECTRIC CABLE IN CONDUIT, LEAD-IN, NO. 14 1 PAIR	FOOT	1,707
ELECTRIC CABLE IN CONDUIT, SERVICE, NO. 6 2 C	FOOT	54
ELECTRIC CABLE IN CONDUIT, EQUIPMENT GROUNDING CONDUCTOR, NO. 6 1C	FOOT	722
TRAFFIC SIGNAL POST, GALVANIZED STEEL 16 FT.	EACH	3
STEEL MAST ARM ASSEMBLY AND POLE, 40 FT.	EACH	2
STEEL MAST ARM ASSEMBLY AND POLE, 50 FT.	EACH	1
STEEL MAST ARM ASSEMBLY AND POLE, 54 FT.	EACH	1
CONCRETE FOUNDATION, TYPE A	FOOT	12
CONCRETE FOUNDATION, TYPE C	FOOT	4
CONCRETE FOUNDATION, TYPE E 36-INCH DIAMETER	FOOT	56
SIGNAL HEAD, LED, 1-FACE, 3-SECTION, MAST-ARM MOUNTED	EACH	3
SIGNAL HEAD, LED, 1-FACE, 5-SECTION, BRACKET MOUNTED	EACH	3
SIGNAL HEAD, LED, 1-FACE, 5-SECTION, MAST-ARM MOUNTED	EACH	5
SIGNAL HEAD, LED, 2-FACE, 5-SECTION, BRACKET MOUNTED	EACH	1
TRAFFIC SIGNAL BACKPLATE, LOUVERED, ALUMINUM	EACH	8
INDUCTIVE LOOP DETECTOR	EACH	8
DETECTOR LOOP, TYPE I	FOOT	1,083
* LIGHT DETECTOR	EACH	2
* LIGHT DETECTOR AMPLIFIER	EACH	1
* UNINTERRUPTABLE POWER SUPPLY, SPECIAL	EACH	1
* ELECTRIC CABLE IN CONDUIT NO. 20 3/C, TWISTED, SHIELDED	FOOT	340

* 100% COST TO NORTH PALOS FIRE PROTECTION DISTRICT

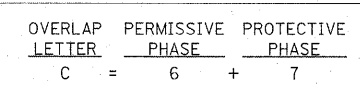


CABLE PLAN

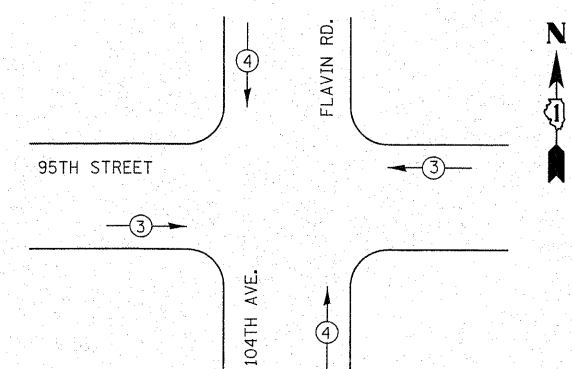
CONTROLLER SEQUENCE



PHASE DESIGNATION DIAGRAM



EMERGENCY VEHICLE PREEMPTION SEQUENCE



PROPOSED EMERGENCY VEHICLE PREEMPTORS			
EMERGENCY VEHICLE PREEMPTOR	3	4	
MOVEMENT	← →	↑ ↓	

I.D.O.T. TRAFFIC SIGNAL INSTALLATION ELECTRICAL SERVICE REQUIREMENTS					TOTAL WATTAGE
TYPE	NO. OF LAMPS	WATTAGE X INCAND.	LED	% OPERATION	
SIGNAL (RED)	13		17	0.50	110.5
(YELLOW)	13		25	0.25	81.25
(GREEN)	13		15	0.25	48.75
ARROW	20		12	0.10	24
PED. SIGNAL	-		25	1.00	-
CONTROLLER	1		100	1.00	100
ILLUM. SIGN	-		25	0.05	-
VIDEO SYSTEM	-		150	1.00	-
FLASHER				0.50	
ENERGY COSTS TO:					TOTAL = 364.5

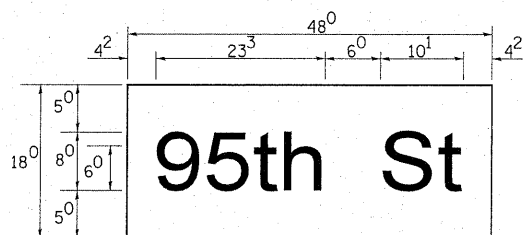
ILLINOIS DEPARTMENT OF TRANSPORTATION
 DIVISION OF HIGHWAY/DISTRICT 1
 201 WEST CENTER COURT/SCHAUMBURG, ILLINOIS 60196-1096
 ENERGY SUPPLY: CONTACT: ILYAS MOHIUDDIN
 PHONE: (708) 235-2692
 COMPANY: COMED

FILE NAME =	USER NAME = poocahal	DESIGNED -	REVISED - BCK 4/5/10
ca:\pw\work\pwt\dot\poocahal\d0113528\95\104\th.dgn		DRAWN -	REVISED - LP 1/12/12
PLOT SCALE = 20:000 // in.		CHECKED -	REVISED -
PLOT DATE = 1/17/2012		DATE -	REVISED -

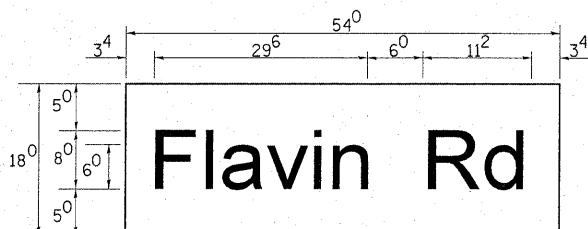
**STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION**

CABLE PLAN, PHASE DESIGNATION DIAGRAM, SCHEDULE OF QUANTITIES			
95th STREET AT 104th AVENUE / FLAVIN ROAD			
SCALE: NONE	SHEET NO.	OF SHEETS	STA. TO STA.

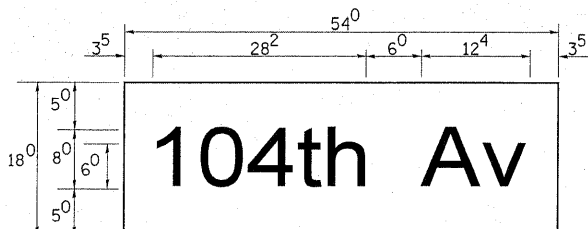
F.A.U. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
1566	29R-N-1	COOK	120	47
CONTRACT NO. 62377				
ILLINOIS FED. AID PROJECT				



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



____ Sq. M. each
6.75 Sq. Ft. each
2 Required
 Design Series D



____ Sq. M. each
6.75 Sq. Ft. each
2 Required
 Design Series D

NOTE: SIGN DIMENSIONS ARE IN ENGLISH UNITS

GENERAL NOTES

1. 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.
2. ALL SIGNS SHALL HAVE A WHITE REFLECTORIZED LEGEND AND BORDER ON A GREEN REFLECTORIZED BACKGROUND, TYPE A SHEETING.
3. THE SIGN LENGTH SHOULD BE INCREASED IN 6-INCH INCREMENTS, BUT THE OVERALL LENGTH SHOULD NOT EXCEED 8'-0".
4. ALL BORDERS SHALL BE 3/4" WIDE AND CORNER RADIUS SHALL BE 2-1/4" .
5. SIGNFIX ALUMINUM CHANNEL FRAMING SYSTEM SHALL BE USED FOR ALL SIGNS ATTACHED TO SIGNAL POLES AND POSTS. LOCAL SUPPLIERS OF THE SIGNFIX ALUMINUM CHANNEL FRAMING SYSTEM ARE:

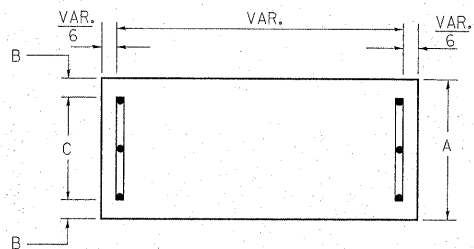
* J.O. HERBERT CO.
 MIDLOTHIAN, VA.

* WESTERN REMAC INC.
 WOODRIDGE, IL.

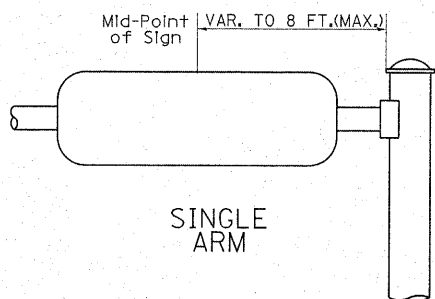
PARTS LISTING:

SIGN CHANNEL PART #HPN053 (MED. CHANNEL)
 SIGN SCREWS 1/4" x 14 x 1" H.W.H. #3
 SELF TAPPING WITH NEOPRENE WASHER
 BRACKETS PART #HPN034 (UNIVERSAL)
 CHANNEL CLAMPS WITH STAINLESS STEEL STRAPPING
 OTHER BRANDS OF MOUNTING HARDWARE ARE ACCEPTABLE, BASED UPON THE DEPARTMENT'S APPROVAL AND COMPATIBILITY WITH THE CHANNEL/BRACKET OF THE ABOVE PRODUCT.

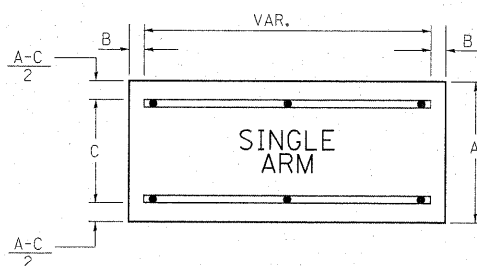
SUPPORTING CHANNELS



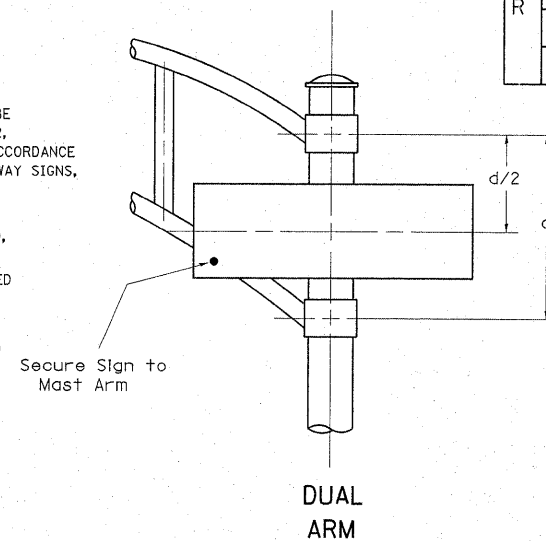
A	B	C
18"	2"	14"



SUPPORTING CHANNELS



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



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

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

SERIES	SECOND LETTER															
	acde	goq	bhikl	mnpru	f w	j	s t	v y	x	z						
A W X	1 ²	1 ⁴	1 ⁴	1 ⁵	1 ²	1 ⁴	0 ⁶	1 ⁰	1 ¹	1 ⁴	0 ⁶	1 ⁰	1 ¹	1 ²	1 ²	1 ⁴
B	1 ⁴	1 ⁵	2 ⁰	2 ¹	1 ⁴	1 ⁵	1 ¹	1 ²	1 ⁴	1 ⁵	1 ²	1 ⁴	1 ²	1 ⁴	1 ⁶	1 ⁷
C E G	1 ⁴	1 ⁵	2 ⁰	2 ¹	1 ²	1 ⁴	0 ⁶	1 ⁰	1 ²	1 ⁴	1 ²	1 ⁴	1 ⁴	1 ⁵	1 ⁴	1 ⁵
D O Q R	1 ⁴	1 ⁵	2 ⁰	2 ¹	1 ⁴	1 ⁵	0 ⁶	1 ⁰	1 ²	1 ⁴	1 ²	1 ⁴	1 ⁴	1 ⁵	1 ⁴	1 ⁵
F	0 ⁵	0 ⁶	1 ⁴	1 ⁵	0 ⁶	1 ⁰	0 ⁵	0 ⁶	0 ⁶	1 ⁰	0 ⁶	1 ⁰	0 ⁶	1 ⁰	1 ¹	1 ²
H I M N	2 ⁰	2 ¹	2 ²	2 ⁴	2 ⁰	2 ¹	1 ⁴	1 ⁵	1 ⁶	1 ⁷	1 ⁶	1 ⁷	2 ⁰	2 ¹	2 ⁰	2 ¹
J U	2 ⁰	2 ¹	2 ⁰	2 ¹	1 ⁶	1 ⁷	1 ⁴	1 ⁵	1 ⁶	1 ⁷	1 ⁶	1 ⁷	1 ⁶	1 ⁷	2 ⁰	2 ¹
K L	1 ¹	1 ²	1 ⁶	1 ⁷	1 ¹	1 ²	0 ⁵	0 ⁶	1 ¹	1 ²	1 ¹	1 ²	1 ¹	1 ²	1 ²	1 ⁴
P	1 ²	1 ⁴	1 ⁴	1 ⁵	1 ²	1 ⁴	0 ⁵	0 ⁶	1 ¹	1 ²	1 ¹	1 ²	1 ²	1 ⁴	1 ²	1 ⁴
S	1 ²	1 ⁴	1 ⁶	1 ⁷	1 ²	1 ⁴	0 ⁶	1 ⁰	1 ²	1 ⁴	1 ²	1 ⁴	1 ²	1 ⁴	1 ²	1 ⁴
T	1 ¹	1 ²	1 ⁶	1 ⁷	0 ⁶	1 ⁰	0 ⁶	1 ⁰	1 ¹	1 ²	1 ¹	1 ²	1 ¹	1 ²	1 ²	1 ⁴
V	0 ⁶	1 ⁰	1 ⁴	1 ⁵	1 ¹	1 ²	0 ⁶	1 ⁰	1 ²	1 ⁴	1 ²	1 ⁴	1 ²	1 ⁴	1 ²	1 ⁴
Y	0 ⁵	0 ⁶	1 ⁴	1 ⁵	0 ⁶	1 ⁰	0 ⁵	0 ⁶	0 ⁵	0 ⁷	0 ⁵	0 ⁶	0 ⁶	1 ⁰	1 ¹	1 ²
Z	1 ⁶	1 ⁷	2 ²	2 ⁴	1 ⁶	1 ⁷	1 ²	1 ⁴	1 ⁶	1 ⁷	1 ⁶	1 ⁷	1 ⁶	1 ⁷	2 ⁰	2 ¹

EXAMPLE, 2 ³/₈ DENOTES 3"
 8

UPPER AND LOWER CASE
 LETTER WIDTHS

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

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

SERIES	SECOND LETTER															
	acde	goq	bhikl	mnpru	f w	j	s t	v y	x	z						
adhgij	1 ⁶	1 ⁷	2 ²	2 ⁴	1 ⁶	1 ⁷	1 ²	1 ⁴	1 ⁴	1 ⁵	1 ⁴	1 ⁵	1 ⁶	1 ⁷	1 ⁶	1 ⁷
lmnqu																
bfkops	1 ²	1 ⁴	1 ⁶	1 ⁷	1 ¹	1 ²	0 ⁵	0 ⁶	1 ¹	1 ²	1 ¹	1 ²	1 ²	1 ⁴	1 ²	1 ⁴
c e	1 ²	1 ⁴	1 ⁶	1 ⁷	1 ²	1 ⁴	0 ⁶	1 ⁰	1 ²	1 ⁴	1 ²	1 ⁴	1 ²	1 ⁴	1 ²	1 ⁴
r	0 ⁶	1 ⁰	1 ²	1 ⁴	0 ⁶	1 ⁰	0 ³	0 ³	0 ⁵	0 ⁶	0 ⁵	0 ⁶	0 ⁶	1 ⁰	0 ⁶	1 ⁰
t z	1 ²	1 ⁴	1 ⁶	1 ⁷	1 ²	1 ⁴	0 ⁶	1 ⁰	1 ¹	1 ²	1 ¹	1 ²	1 ²	1 ⁴	1 ²	1 ⁴
v y	1 ¹	1 ²	1 ⁴	1 ⁵	1 ¹	1 ²	0 ⁵	0 ⁶	0 ⁶	1 ⁰	0 ⁶	1 ⁰	1 ¹	1 ²	1 ¹	1 ²
w	1 ¹	1 ²	1 ⁴	1 ⁵	1 ¹	1 ²	0 ⁵	0 ⁶	1 ¹	1 ²	1 ¹	1 ²	1 ¹	1 ²	1 ²	1 ⁴
x	1 ²	1 ⁴	1 ⁶	1 ⁷	1 ¹	1 ²	0 ⁵	0 ⁶	1 ¹	1 ²	1 ¹	1 ²	1 ¹	1 ²	1 ²	1 ⁴

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

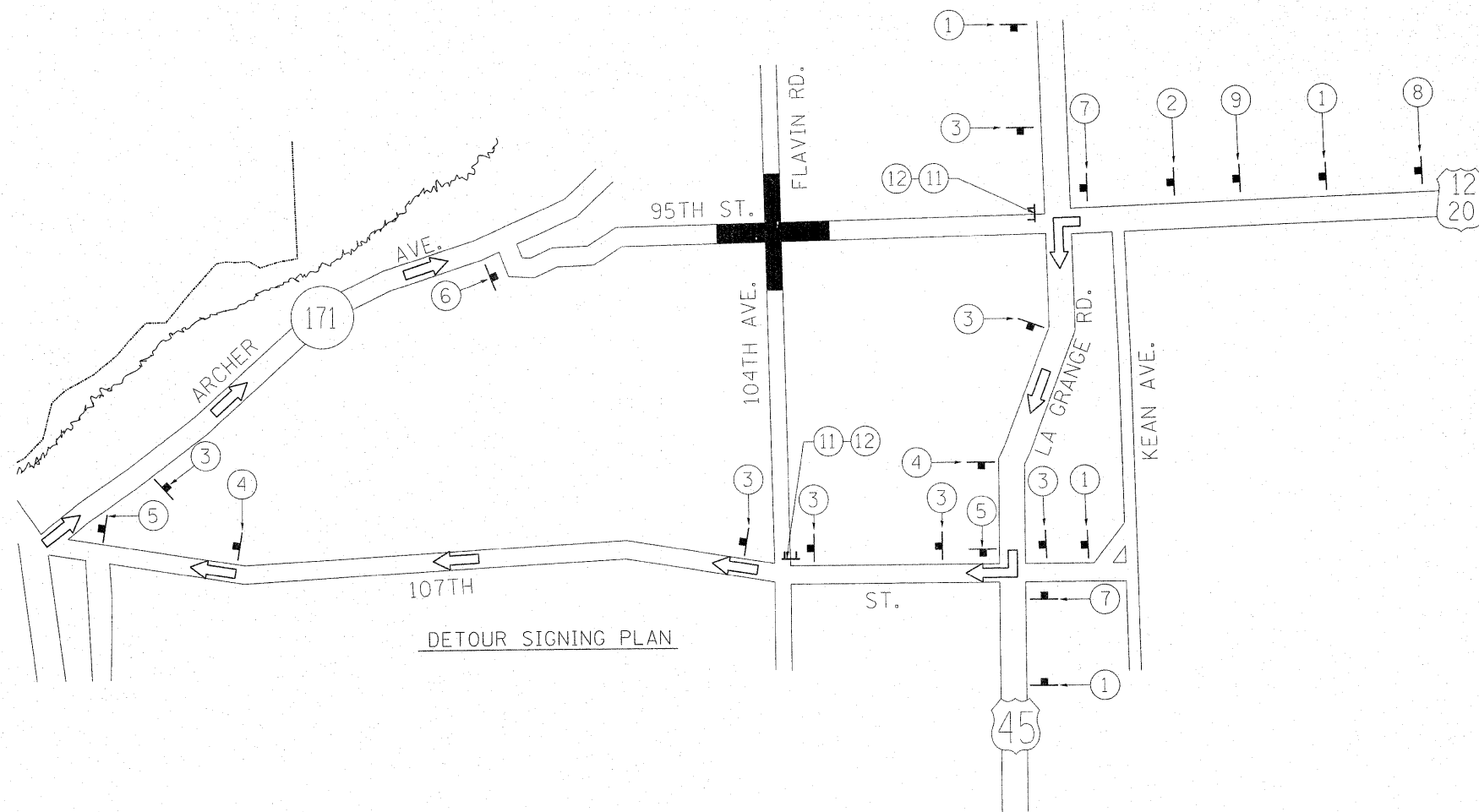
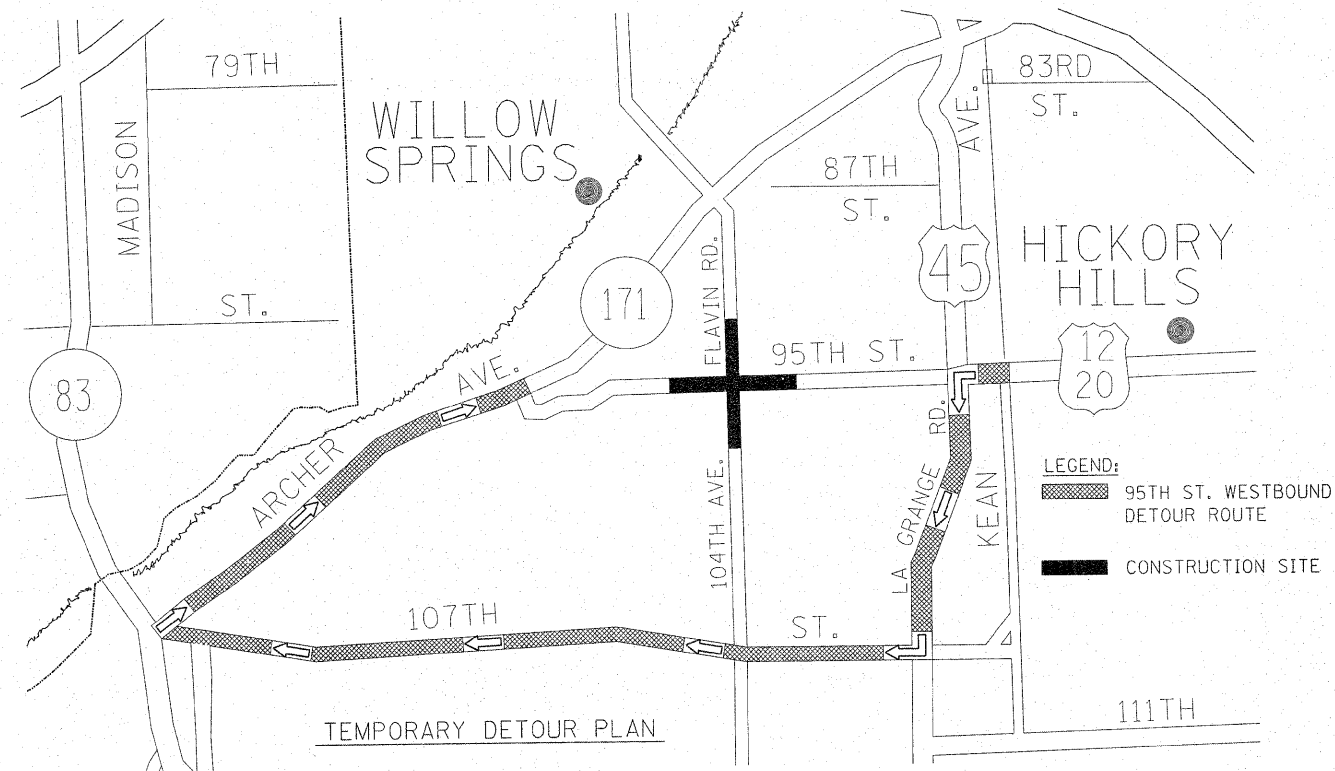
SERIES	SECOND NUMBER																			
	0	1	2	3	4	5	6	7	8	9										
0 9	1 ⁶	1 ⁷	1 ⁶	1 ⁷	1 ⁴	1 ⁵	1 ²	1 ⁴	1 ⁴	1 ⁵	1 ⁴	1 ⁵	1 ⁶	1 ⁷	1 ²	1 ⁴	1 ⁶	1 ⁷	1 ⁶	1 ⁷
1	2 ⁰	2 ¹	2 ⁰	2 ¹	2 ⁰	2 ¹	1 ⁶	1 ⁷	1 ⁴	1 ⁵	2 ⁰	2 ¹	2 ⁰	2 ¹	1 ⁴	1 ⁵	2 ⁰	2 ¹	2 ⁰	2 ¹
2 3 4	1 ⁴	1 ⁵	1 ⁴	1 ⁵	1 ⁴	1 ⁵	1 ²	1 ⁴	1 ²	1 ⁴	1 ⁴	1 ⁵	1 ⁴	1 ⁵	1 ¹	1 ²	1 ⁶	1 ⁷	1 ⁴	1 ⁵
5	1 ⁴	1 ⁵	1 ⁴	1 ⁵	1 ⁴	1 ⁵	1 ¹	1 ²	1 ¹	1 ²	1 ⁴	1 ⁵	1 ⁴	1 ⁵	1 ¹	1 ²	1 ⁴	1 ⁵	1 ⁴	1 ⁵
6	1 ⁶	1 ⁷	1 ⁴	1 ⁵	1 ⁴	1 ⁵	1 ²	1 ⁵	1 ²	1 ⁴	1 ⁴	1 ⁵	1 ⁴	1 ⁵	1 ¹	1 ²	1 ⁴	1 ⁵	1 ⁴	1 ⁵
7	1 ²	1 ⁴	1 ²	1 ⁴	1 ⁴	1 ⁵	1 ²	1 ⁵	0 ⁵	0 ⁶	1 ²	1 ⁴	1 ⁴	1 ⁵	1 ¹	1 ²	1 ⁴	1 ⁵	1 ²	1 ⁴
8	1 ⁶	1 ⁷	1 ⁶	1 ⁷	1 ⁴	1 ⁵	1 ²	1 ⁵	1 ²	1 ⁴	1 ⁴	1 ⁵	1 ⁶	1 ⁷	1 ²	1 ⁴	1 ⁶	1 ⁷	1 ⁴	1 ⁵

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

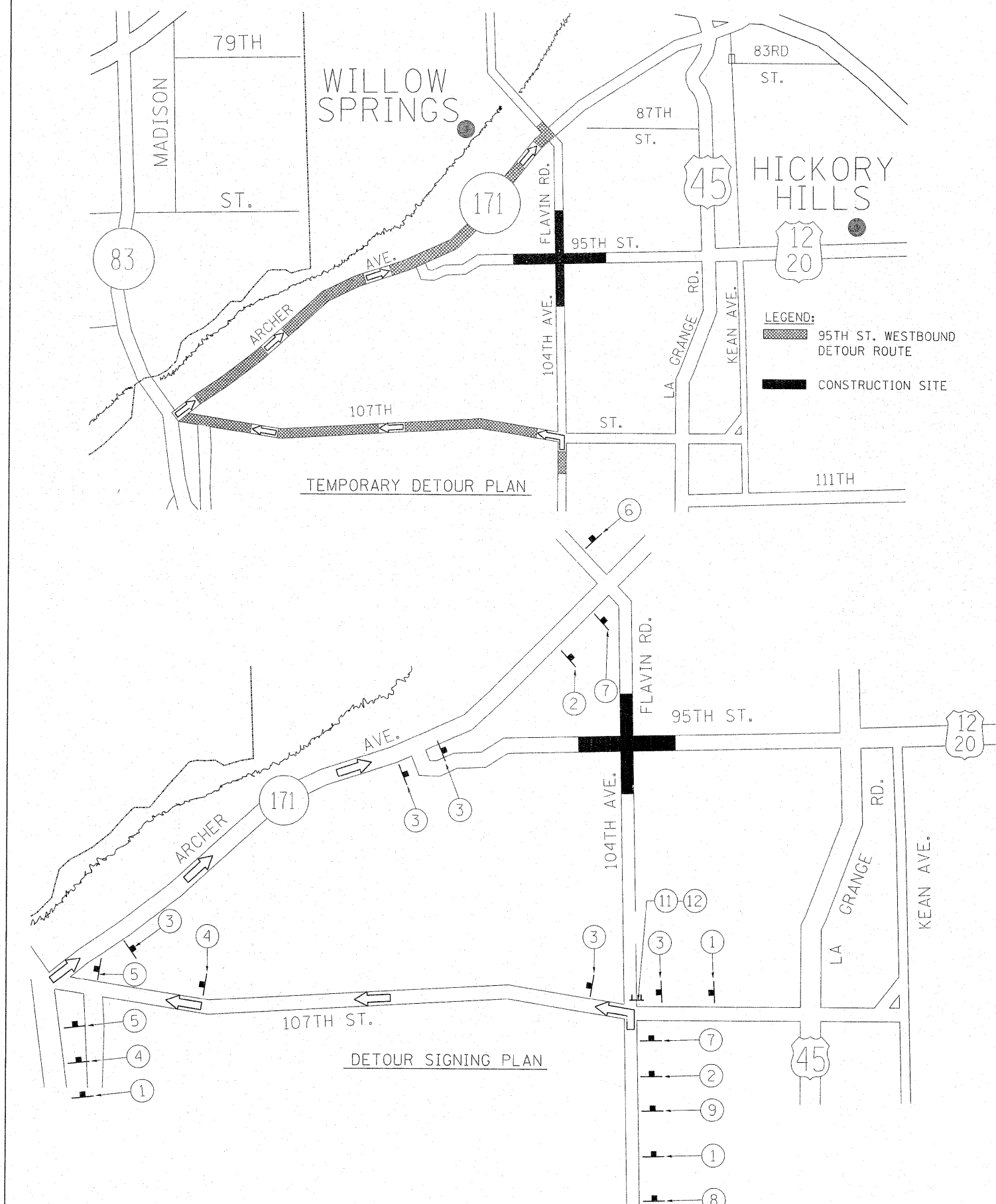
WESTBOUND 95TH STREET DETOUR

SIGN LEGEND

①		W20 - 3 (0) 48X48	②		M4 - 8 (0) 24X12	③		M4 - 8 (0) 24X12
		M3 - 4 (0) 24X12			M3 - 4 (0) 24X12			M3 - 4 (0) 24X12
		W17-1100 (0) VAR. X 12"			W17-1100 (0) VAR. X 12"			W17-1100 (0) VAR. X 12"
		M5 - 1R (0) 21X15			M5 - 1L (0) 21X15			M6 - 3 21X15
④		M4 - 8 (0) 24X12	⑤		M4 - 8 (0) 24X12	⑥		M4 - 8g 24X18
		M3 - 4 (0) 24X12			M3 - 4 (0) 24X12			
		W17-1100 (0) VAR. X 12"			W17-1100 (0) VAR. X 12"			
		M5 - 1R (0) 21X15			M6 - 1R (0) 21X15			
⑦		M4 - 8 (0) 24X12	⑧		M3 - 4 (0) 24X12	⑨		W20 - 3 (0) 48X48
		W17-1100 (0) VAR. X 12"			W17-1100 (0) VAR. X 12"			
		M6 - 1L (0) 21X15			M6 - 1R (0) 21X15			
⑪		R11-4 MOUNTED ABOVE A TYPE III BARRICADE	⑫		R11-2 MOUNTED ABOVE A TYPE III BARRICADE			



NORTHBOUND 104TH AVE./ FLAVIN RD. DETOUR SIGN LEGEND



<p>① W20 - 3 (0) 48X48</p> <p> M3 - 1 (0) 24X12</p> <p> W17-1100 (0) VAR. X 12"</p>	<p>② M4 - 8 (0) 24X12</p> <p> W17-1100 (0) VAR. X 12"</p> <p> M5 - 1L (0) 21X15</p>	<p>③ M4 - 8 (0) 24X12</p> <p> W17-1100 (0) VAR. X 12"</p> <p> M6 - 3 21X15</p>
<p>④ M4 - 8 (0) 24X12</p> <p> M3 - 1 (0) 24X12</p> <p> W17-1100 (0) VAR. X 12"</p> <p> M5 - 1R (0) 21X15</p>	<p>⑤ M4 - 8 (0) 24X12</p> <p> M3 - 1 (0) 24X12</p> <p> W17-1100 (0) VAR. X 12"</p> <p> M6 - 1R (0) 21X15</p>	<p>⑥ M4 - 8a 24X18</p>
<p>⑦ M4 - 8 (0) 24X12</p> <p> M3 - 1 (0) 24X12</p> <p> W17-1100 (0) VAR. X 12"</p> <p> M6 - 1L (0) 21X15</p>	<p>⑧ W20 - 3 (0) 48X48</p> <p>⑩ R11-2 MOUNTED ABOVE A TYPE III BARRICADE</p>	<p>⑨ W20 - 3 (0) 48X48</p> <p>⑫ M4-10L MOUNTED ABOVE A TYPE III BARRICADE</p>
<p>⑪ R11-4 MOUNTED ABOVE A TYPE III BARRICADE</p>		

F.A.U. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
1566	29 R-N-1	COOK	120	51
STA.	TO STA.			
FED. ROAD DIST. NO.	ILLINOIS	FED. AID PROJECT		
D-91-026-02	CONTRACT NO. 62377			

SHEET 51 OF 56

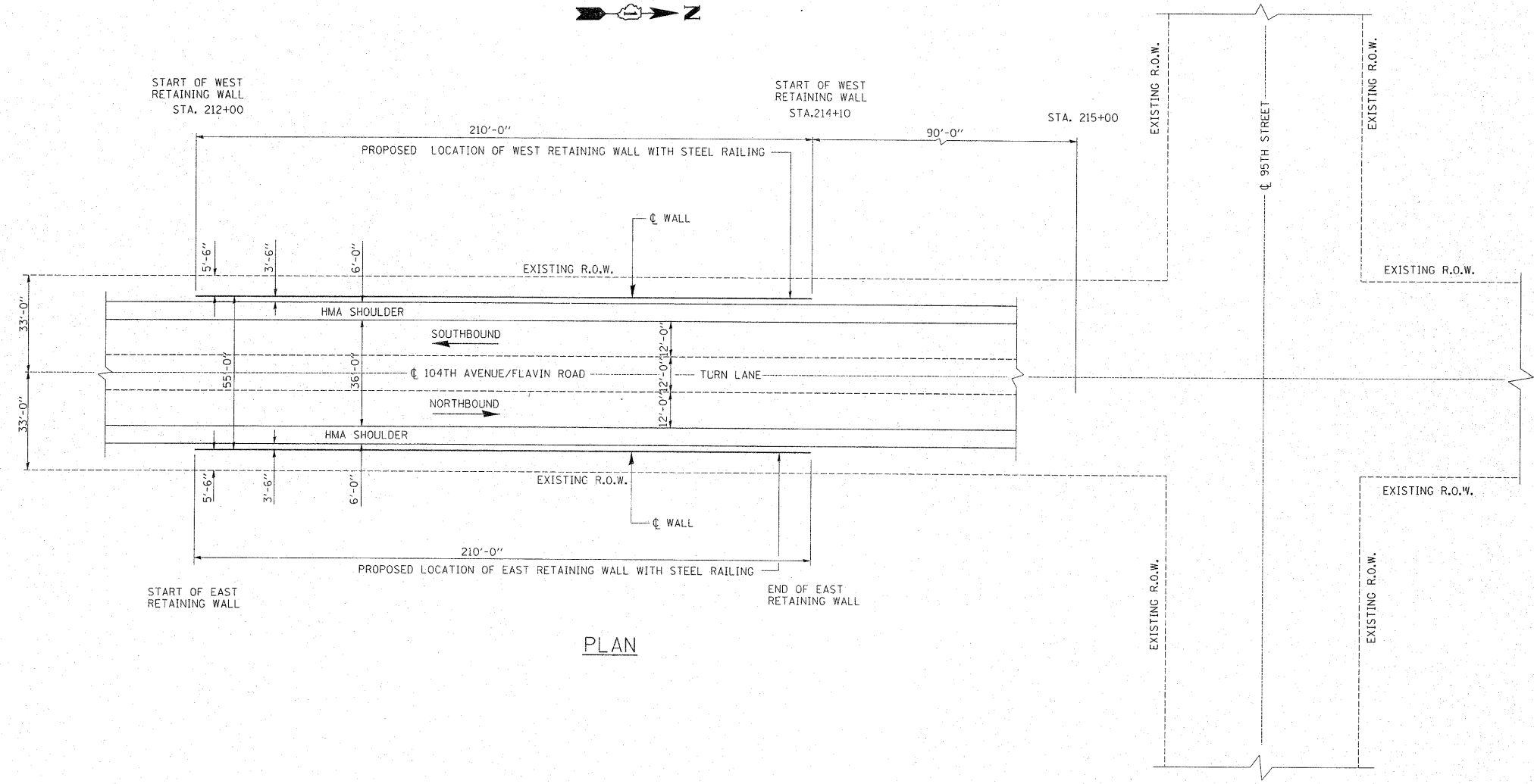
SCOPE OF WORK:
 PERMANENT STEEL SHEET PILING RETAINING WALL
 INSTALL GUARDRAIL

DESIGN SPECIFICATIONS:
 2002 AASHTO

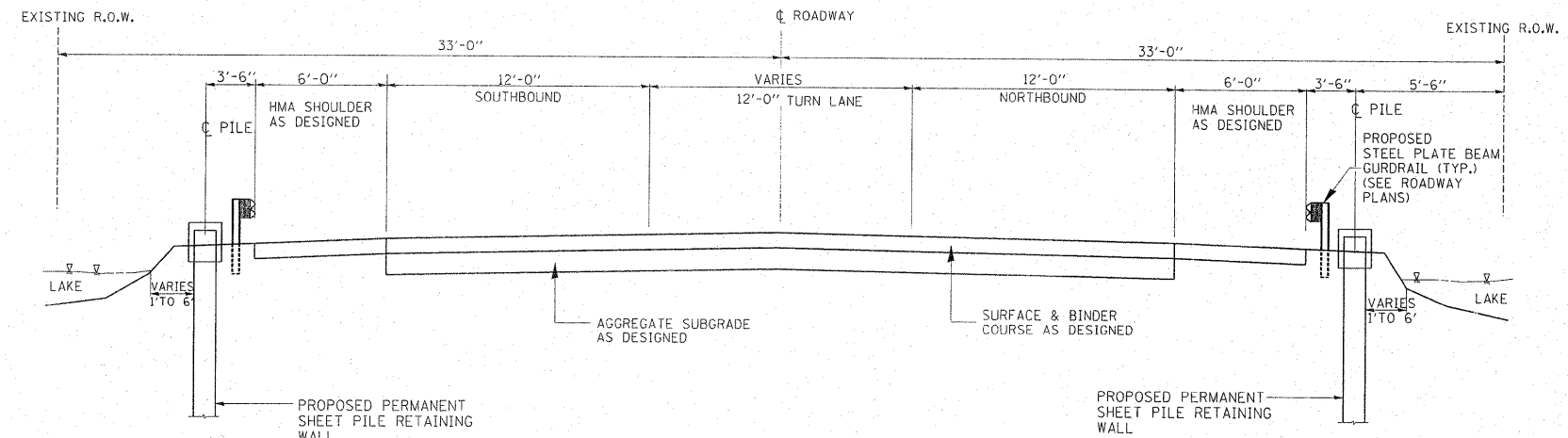
LOADING:
 EQUIVALENT FLUID LATERAL SOIL PRESSURE = 85 lbs/ft²

DESIGN STRESSES:
 f'c = 3500 psi
 fy = 60,000 psi

GENERAL NOTES:
 PLAN DIMENSIONS AND DETAILS RELATIVE TO EXISTING PLANS ARE SUBJECT TO NOMINAL CONSTRUCTION VARIATIONS. THE CONTRACTOR SHALL FIELD VERIFY EXISTING DIMENSIONS AND DETAILS AFFECTIVE NEW CONSTRUCTION AND MAKE NECESSARY APPROVED ADJUSTMENTS PRIOR TO CONSTRUCTION OR ORDERING OF MATERIALS. SUCH VARIATIONS SHALL NOT BE CAUSE FOR ADDITIONAL COMPENSATION FOR A CHANGE IN SCOPE OF THE WORK, HOWEVER, THE CONTRACTOR WILL BE PAID FOR THE QUANTITY ACTUALLY FURNISHED BASED AT THE UNIT PRICE BID FOR THE WORK.
 ELEVATIONS ARE IN FEET.
 EXPOSED CONCRETE EDGES SHALL BE CHAMFERED 3/4" EXCEPT AS NOTED.
 REINFORCEMENT BARS SHALL CONFORM TO THE REQUIREMENTS OF ASTM A 706 Gr 60 SEE SPECIAL PROVISIONS.
 EFFECTIVE SECTION MODULUS - 22 in³/Ft. min.



PLAN



TYPICAL SECTION
 (LOOKING NORTH)

TOTAL BILL OF MATERIALS

ITEM	UNIT	QUANTITY
REINFORCEMENT BARS, (EPOXY COATED)	POUND	3600
CONCRETE STRUCTURES	CU. YDS	40.8
PERMANENT STEEL SHEET PILING	SQ. FT.	7460
STUD SHEAR CONNECTORS	EACH	118

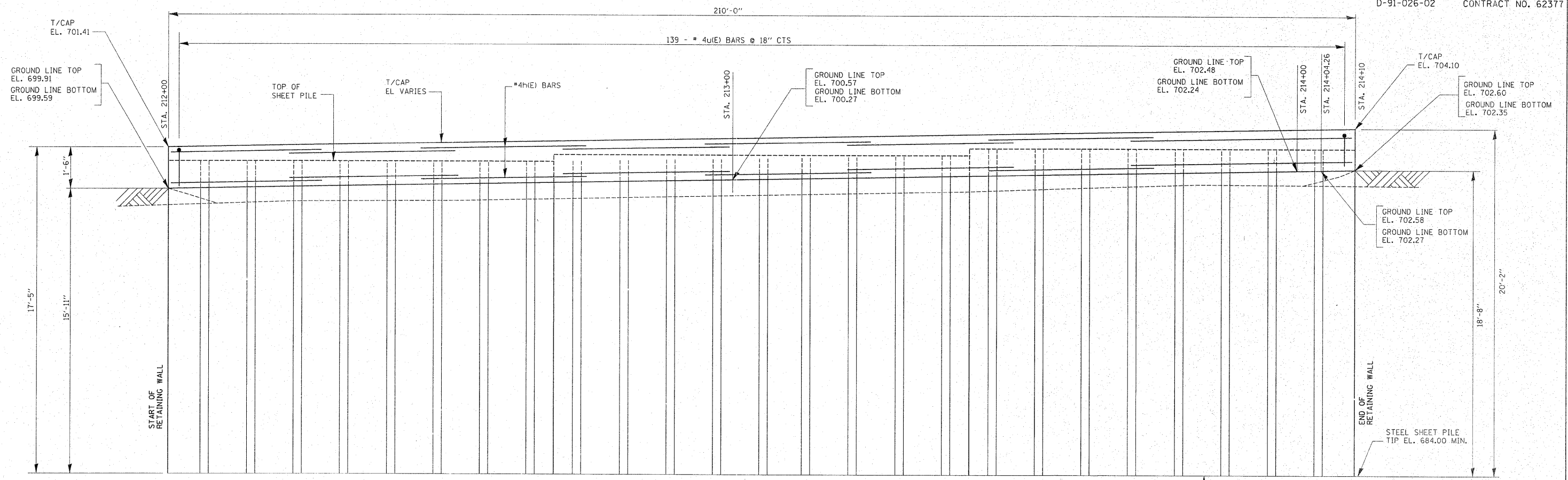
REVISIONS		ILLINOIS DEPARTMENT OF TRANSPORTATION 95TH STREET AT 104TH AVENUE/FLAVIN ROAD WEST AND EAST PROPOSED RETAINING WALLS
NAME	DATE	

SCALE: VERT. DRAWN BY: MVT
 HORIZ. CHECKED BY: RTB

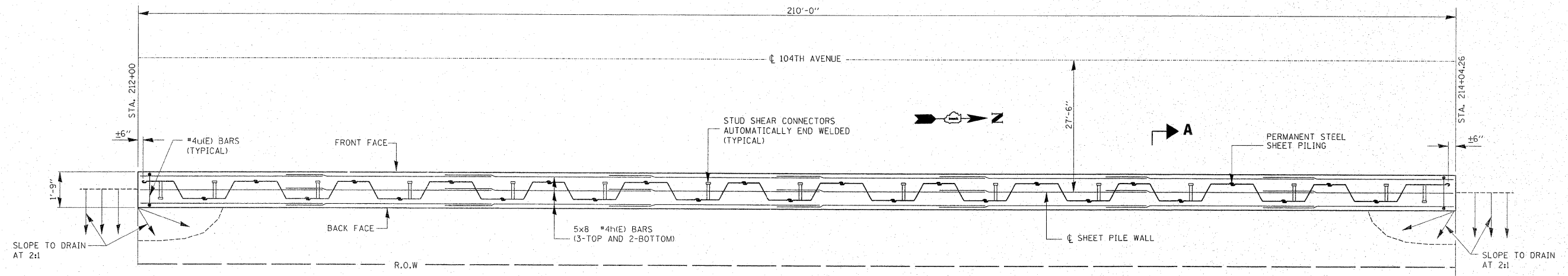
2/15/2011
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F.A.U. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
1566	29 R-N-1	COOK	120	52
STA.		TO STA.		
FED. ROAD DIST. NO. 1		ILLINOIS FED. AID PROJECT		
D-91-026-02		CONTRACT NO. 62377		

SHEET S2 OF S6



**ELEVATION - EAST RETAINING WALL
(LOOKING WEST)**



PLAN - EAST RETAINING WALL

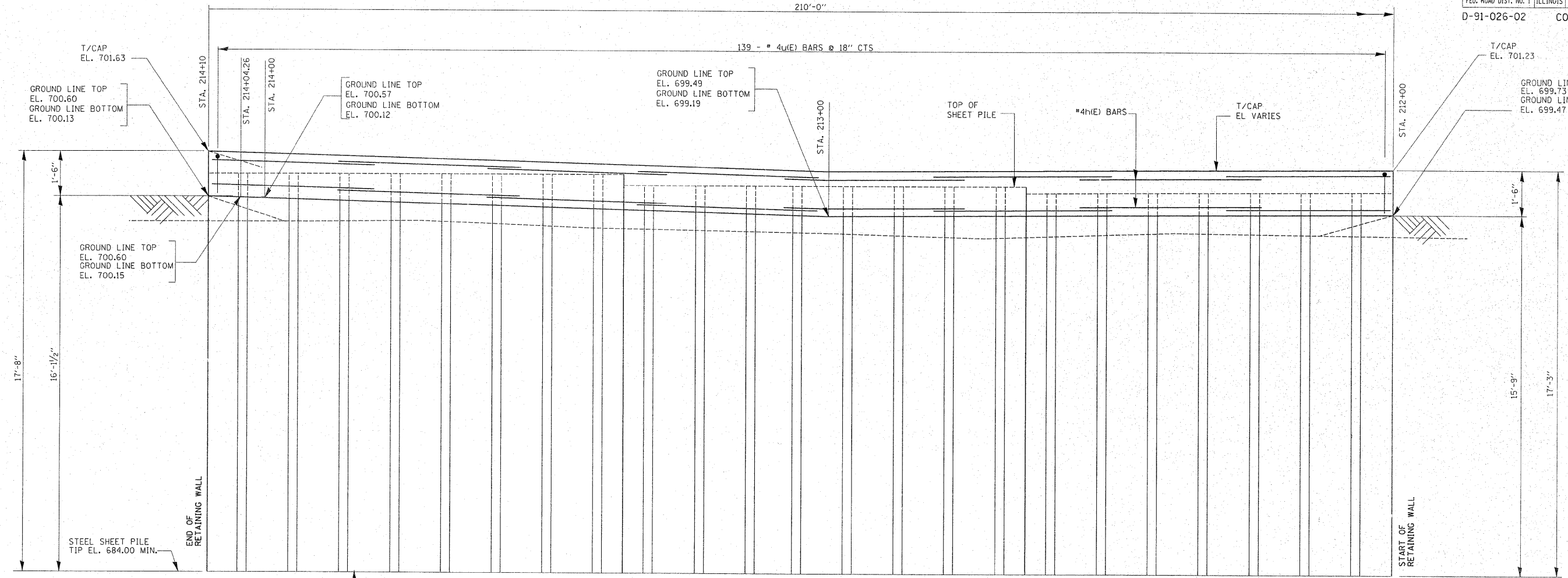
REVISIONS	
NAME	DATE

ILLINOIS DEPARTMENT OF TRANSPORTATION
 95TH STREET
 AT 104TH AVENUE/FLAVIN ROAD
 EAST RETAINING WALL
 GENERAL PLAN AND ELEVATION
 SCALE: NONE
 DRAWN BY: MVT
 CHECKED BY: RTB

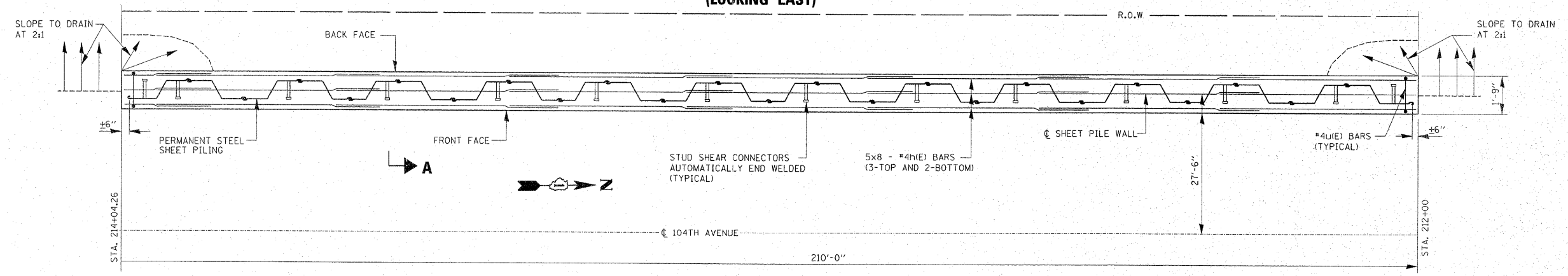
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F.A.U. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
1566	29 R-N-1	COOK	120	53
FED. ROAD DIST. NO. 1 ILLINOIS		FED. AID PROJECT		
D-91-026-02		CONTRACT NO. 62377		

SHEET S3 OF S6



**ELEVATION - WEST RETAINING WALL
(LOOKING EAST)**



PLAN - WEST RETAINING WALL

NOTE:
FOR SECTION A-A SEE SHEET S-4
ALL EDGES SHALL HAVE 3/4" CHAMFER

REVISIONS	
NAME	DATE

ILLINOIS DEPARTMENT OF TRANSPORTATION
**95TH STREET
AT 104TH AVENUE/FLAVIN ROAD
WEST RETAINING WALL
GENERAL PLAN AND ELEVATION**
SCALE: NONE
DATE: MARCH, 2006
DRAWN BY: MVT
CHECKED BY: RTB

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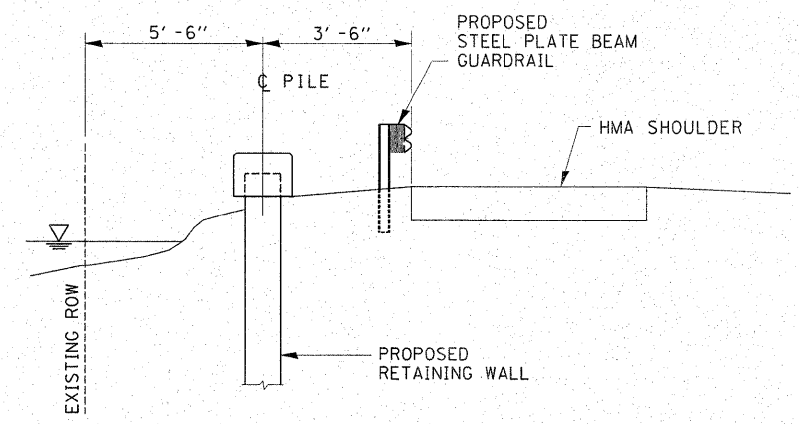
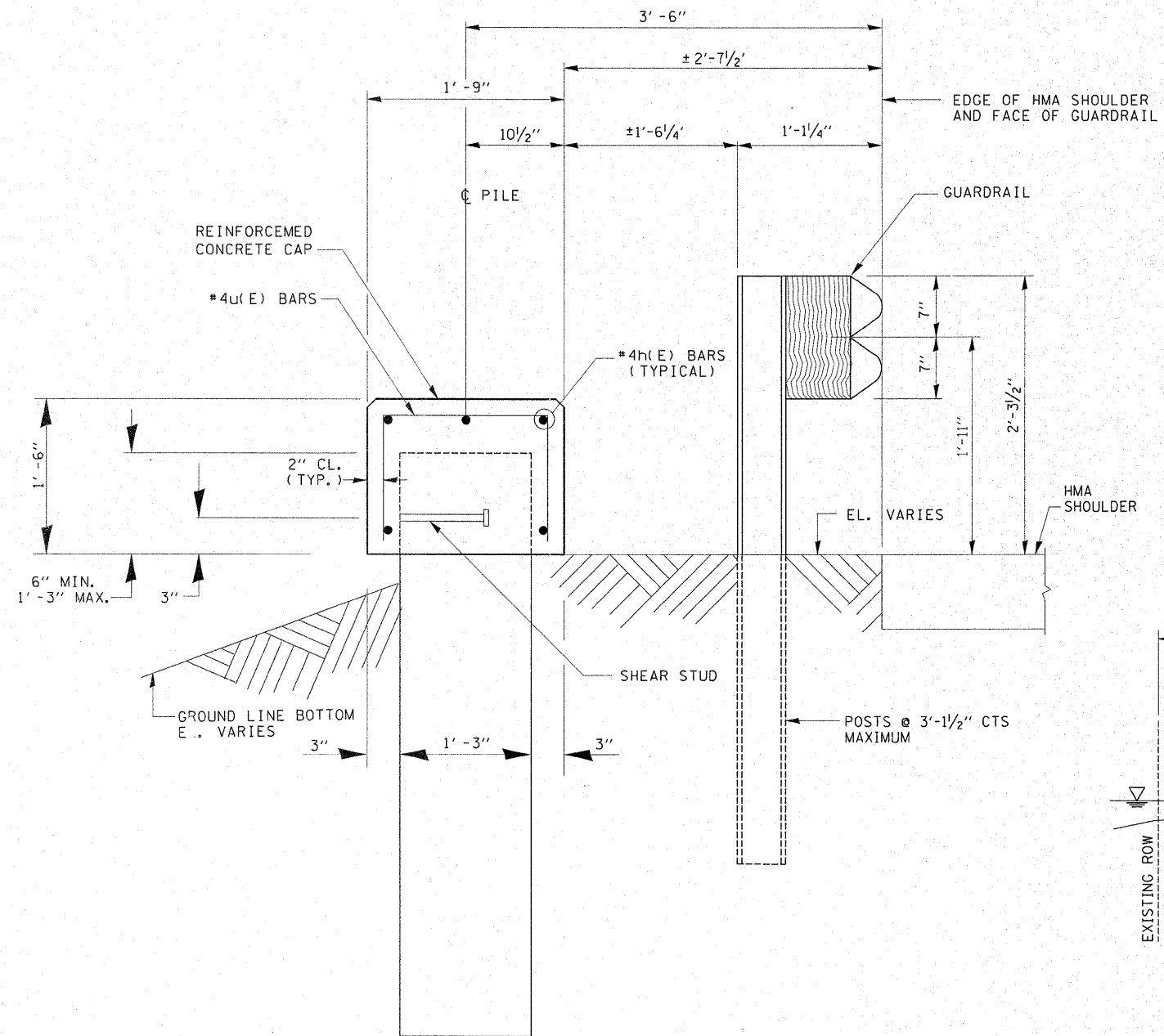
**BILL OF MATERIALS
EAST RETAINING WALL**

BAR	NO.	SIZE	LENGTH	SHAPE
h(E)	40	#4	27'-9"	—
u(E)	422	#4	3'-9"	└┘
REINFORCEMENT BARS, EPOXY COATED			POUND	1800
CONCRETE STRUCTURES			CU. YDS	20.4
PERMANENT STEEL SHEET PILING			SO. FT.	3900
STUD SHEAR CONNECTORS			EACH	59

**BILL OF MATERIALS
WEST RETAINING WALL**

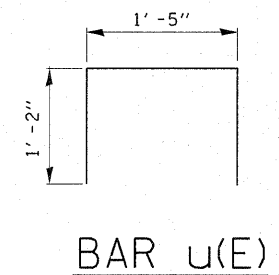
BAR	NO.	SIZE	LENGTH	SHAPE
h(E)	40	#4	27'-9"	—
u(E)	422	#4	3'-9"	└┘
REINFORCEMENT BARS, EPOXY COATED			POUND	1800
CONCRETE STRUCTURES			CU. YDS	20.4
PERMANENT STEEL SHEET PILING			SO. FT.	3560
STUD SHEAR CONNECTORS			EACH	57

REINFORCEMENT BARS DESIGNATED (E) SHALL BE EPOXY COATED.
BARS INDICATED 2x8-#4h(E) BARS INDICATES 2 LINES OF BARS WITH 8 LENGTHS PER LINE.



STEEL SHEET PILE SECTION A-A

**TYPICAL DETAIL
PROPOSED RETAINING WALL**



BAR u(E)

BAR LAP TABLE	
SIZE	LENGTH
#4	1' - 8"

REVISIONS	
NAME	DATE

ILLINOIS DEPARTMENT OF TRANSPORTATION
95TH STREET
AT 104TH AVENUE/FLAVIN ROAD
NORTHBOUND AND SOUTHBOUND
RETAINING WALLS
SECTIONS AND DETAILS
SCALE: VERT. _____
 HORIZ. _____
DRAWN BY: MVT
CHECKED BY: RTB

ILLINOIS DEPARTMENT OF TRANSPORTATION STRUCTURE BORING LOG. Page 1 of 2. Date 6/14/06. ROUTE FAU 1566 (95th Street) SECTION 29R-N-1 DRILLED BY KJ&ES. COUNTY Cook. LOCATION 104th Avenue/Flavin Road and 95th Street (Job # D-91-026-02). Boring No. NB-1 Station 212+00 Offset 12.5' R. Surface El. +701.97' M.S.L. Includes tables for blow counts (D, E, L, P, T, H) and soil descriptions (CLAY LOAM, ORGANIC CLAY, CLAY, etc.).

ILLINOIS DEPARTMENT OF TRANSPORTATION STRUCTURE BORING LOG. Page 2 of 2. Date 6/13/06. ROUTE FAU 1566 (95th Street) SECTION 29R-N-1 DRILLED BY KJ&ES. COUNTY Cook. LOCATION 104th Avenue/Flavin Road and 95th Street (Job # D-91-026-02). Boring No. NB-1 Station 212+00 Offset 12.5' R. Surface El. +701.97' M.S.L. Includes tables for blow counts and soil descriptions (CLAY LOAM, ORGANIC CLAY, CLAY, etc.).

ILLINOIS DEPARTMENT OF TRANSPORTATION STRUCTURE BORING LOG. Page 1 of 2. Date 6/20/06. ROUTE FAU 1566 (95th Street) SECTION 29R-N-1 DRILLED BY PD&JT. COUNTY Cook. LOCATION 104th Avenue/Flavin Road and 95th Street (Job # D-91-026-02). Boring No. NB-3 Station 213+65 Offset 12.5' R. Surface El. +703.71' M.S.L. Includes tables for blow counts and soil descriptions (CRUSHED STONE, CLAY, ORGANIC CLAY, etc.).

ILLINOIS DEPARTMENT OF TRANSPORTATION STRUCTURE BORING LOG. Page 1 of 2. Date 6/14/06. ROUTE FAU 1566 (95th Street) SECTION 29R-N-1 DRILLED BY KJ&ES. COUNTY Cook. LOCATION 104th Avenue/Flavin Road and 95th Street (Job # D-91-026-02). Boring No. NB-2 Station 212+85 Offset 12.5' R. Surface El. +702.56' M.S.L. Includes tables for blow counts and soil descriptions (CRUSHED STONE, CLAY LOAM, CLAY, etc.).

ILLINOIS DEPARTMENT OF TRANSPORTATION STRUCTURE BORING LOG. Page 2 of 2. Date 6/14/06. ROUTE FAU 1566 (95th Street) SECTION 29R-N-1 DRILLED BY KJ&ES. COUNTY Cook. LOCATION 104th Avenue/Flavin Road and 95th Street (Job # D-91-026-02). Boring No. NB-2 Station 212+85 Offset 12.5' R. Surface El. +702.56' M.S.L. Includes tables for blow counts and soil descriptions (CLAY LOAM, CLAY, ORGANIC CLAY, etc.).

ILLINOIS DEPARTMENT OF TRANSPORTATION STRUCTURE BORING LOG. Page 2 of 2. Date 6/20/06. ROUTE FAU 1566 (95th Street) SECTION 29R-N-1 DRILLED BY PD&JT. COUNTY Cook. LOCATION 104th Avenue/Flavin Road and 95th Street (Job # D-91-026-02). Boring No. NB-3 Station 213+65 Offset 12.5' R. Surface El. +703.71' M.S.L. Includes tables for blow counts and soil descriptions (CLAY, ORGANIC CLAY, CLAY LOAM, etc.).

ILLINOIS DEPARTMENT OF TRANSPORTATION STRUCTURE BORING LOG. Page 3 of 1. Date 6/14/06. ROUTE FAU 1566 (95th Street) SECTION 29R-N-1 DRILLED BY KJ&ES. COUNTY Cook. LOCATION 104th Avenue/Flavin Road and 95th Street (Job # D-91-026-02). Boring No. NB-4 Station 214+45 Offset 17.5' R. Surface El. +704.94' M.S.L. Includes tables for blow counts and soil descriptions (CRUSHED STONE, CLAY, CLAY LOAM, etc.).

REVISIONS TABLE: NAME, DATE. ILLINOIS DEPARTMENT OF TRANSPORTATION AT 104TH AVENUE/FLAVIN ROAD NORTHBOUND AND SOUTHBOUND RETAINING WALLS SOIL BORINGS. SCALE: VERT. HORIZ. DRAWN BY: MVT CHECKED BY:

F.A.I. RTE. SECTION 1566 STA. 29 R-N-1 COUNTY COOK TOTAL SHEETS 120 SHEET NO. 55 TO STA. ILLINOIS FED. AID PROJECT CONTRACT NO. 62377

SHEET 56 OF 57

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SEECO Job No. 7891G-5

SEECO Job No. 7891G-5

SEECO Job No. 7891G-5

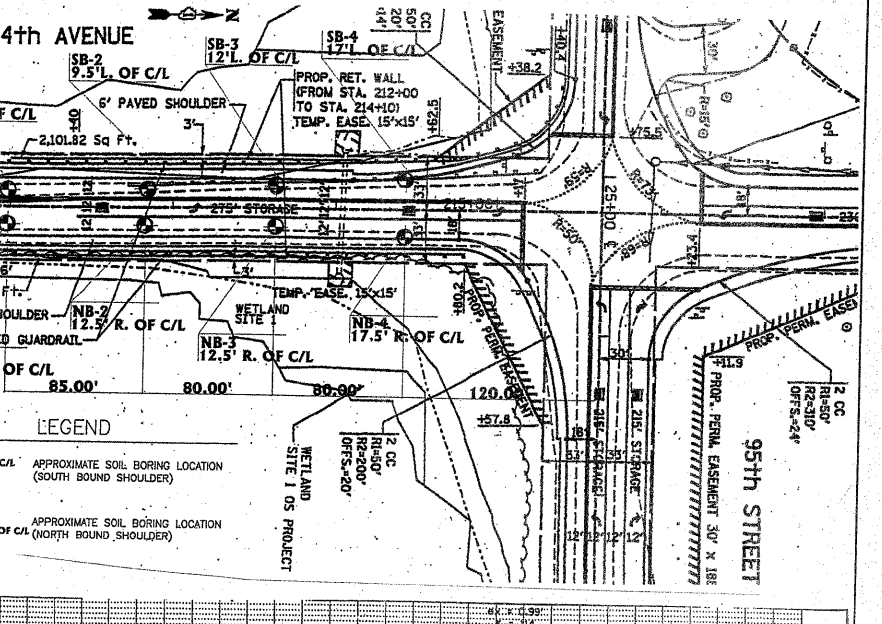
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ILLINOIS DEPARTMENT OF TRANSPORTATION STRUCTURE BORING LOG							
Proposed Improvements (Contract No. 62377)							
Page 1 of 2							
ROUTE FAU 1566 (95th Street)		SECTION 29R-N-1		DRILLED BY KL&ES		DATE 6/12/06	
COUNTY Cook LOCATION 104th Avenue/Flavin Road and 95th Street (Job # D-91-026-02)							
Boring No.	Station	Offset	Surface El.	Surf. Wat. El.		Groundwater Elev.	
SB-1	212+00	8' L	702.03+ M.S.L.	D E P	B L O	QU	W %
				When Drilling		At Completion	
				Dry		Dry	
				H W S		T S F %	
1" BITUMINOUS CONCRETE PAVEMENT							
1.0				2		24.7	
2.0				3		2.10 B/S	
3.0							
4.0				6		2.80 B/S	
5.0				5		1.50 P	
6.0				2		25.6	
7.0				5		3.00 P	
8.0				3		23.8	
9.0				4		1.50 P	
10.0				4		3.00 P	
11.0				3		19.1	
12.0				3		1.50 P	
13.0				3		23.8	
14.0				4		1.50 P	
15.0				4		3.00 P	
16.0				3		17.8	
17.0				4		1.75 P	
18.0				4		3.00 P	
19.0				4		18.6	
20.0				3		2.50 P	
21.0				3		18.9	
22.0				3		12.0 S	
23.0				4		2.00 P	
24.0				4		2.30 B/S	
25.0				4		1.20 S	
26.0				4		2.10 S	
27.0				3		19.0	
28.0				4		1.70 B/S	
29.0				4		17.1	
30.0				2		1.40 B/S	
31.0				2		19.3	
32.0				2		12.6	

ILLINOIS DEPARTMENT OF TRANSPORTATION STRUCTURE BORING LOG							
Proposed Improvements (Contract No. 62377)							
Page 2 of 2							
ROUTE FAU 1566 (95th Street)		SECTION 29R-N-1		DRILLED BY KL&ES		DATE 6/12/06	
COUNTY Cook LOCATION 104th Avenue/Flavin Road and 95th Street (Job # D-91-026-02)							
Boring No.	Station	Offset	Surface El.	Surf. Wat. El.		Groundwater Elev.	
SB-1	212+00	8' L	702.03+ M.S.L.	D E P	B L O	QU	W %
				When Drilling		At Completion	
				Dry		Dry	
				H W S		T S F %	
3" ORGANIC CLAY, Black, Medium, Wet (A-7-5)							
1.0				1		3.80	
2.0				5		17.1	
3.0				8		1.60 B/S	
4.0				2		0.50 B	
5.0				2		52.3	
6.0				2		51.4	
7.0				4		48.4	
8.0				3		0.43 B	
9.0				3		4.00 B	
10.0				3		14.3	
11.0				6		4.00 B	
12.0				11		14.3	
13.0				6		4.00 B	
14.0				6		14.3	
15.0				9		3.90 B/S	
16.0				12		14.9	
17.0				7		2.60 B/S	
18.0				7		14.2	
19.0				9		2.10 S	
20.0				9		13.5	
21.0				7		1.50 B	
22.0				4		18.6	
23.0				4		1.50 B	
24.0				7		2.30 B/S	
25.0				7		15.2	
26.0				12		3.80 B/S	
27.0				13		15.2	
28.0				7		3.80 B/S	
29.0				9		4.50 B/S	
30.0				12		16.1	
31.0				7		3.50 B/S	
32.0				10		15.5	
33.0				7		15.5	
34.0				10		15.5	
35.0				10		15.5	
36.0				10		15.5	
37.0				10		15.5	
38.0				10		15.5	
39.0				10		15.5	
40.0				10		15.5	
41.0				10		15.5	
42.0				10		15.5	

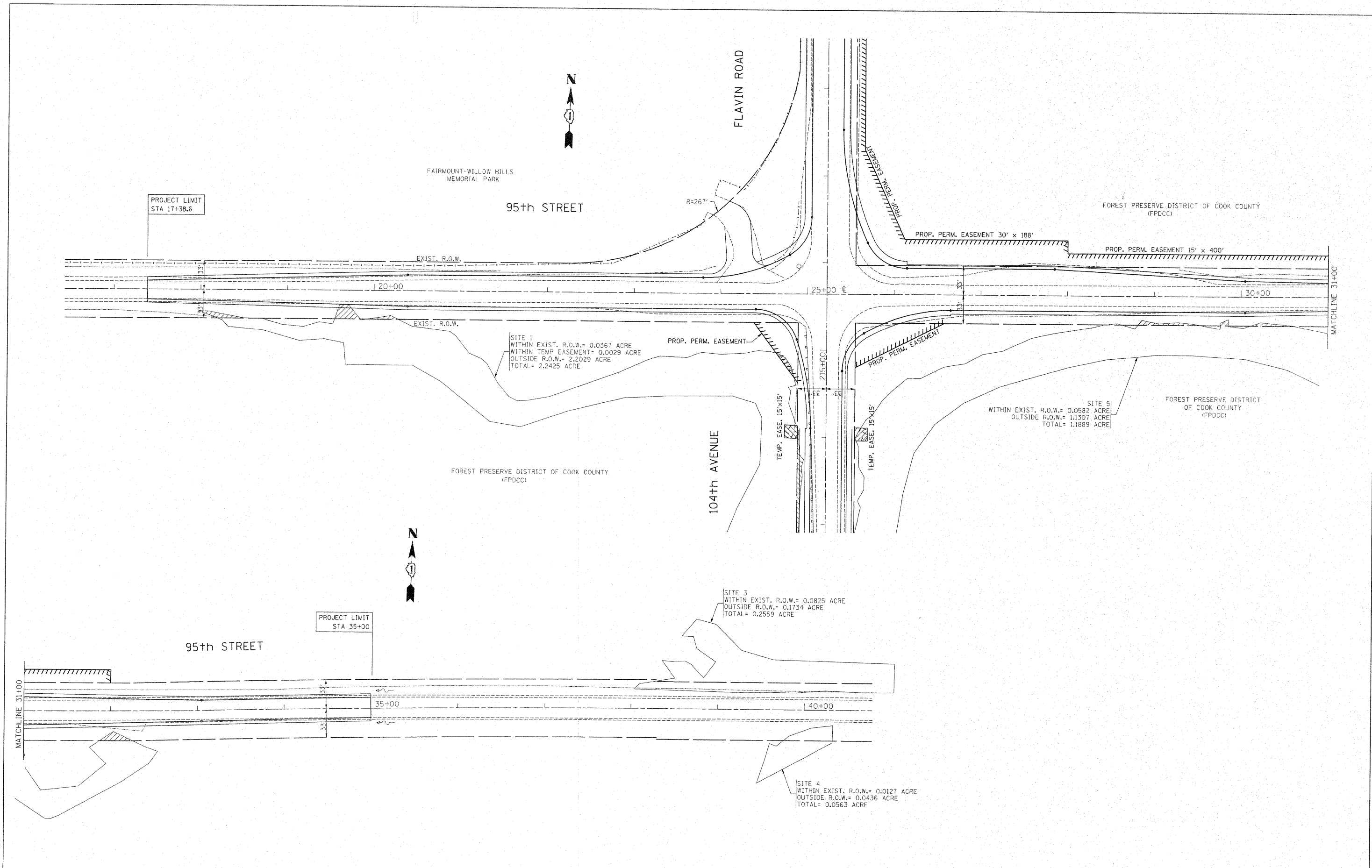
ILLINOIS DEPARTMENT OF TRANSPORTATION STRUCTURE BORING LOG							
Proposed Improvements (Contract No. 62377)							
Page 1 of 1							
ROUTE FAU 1566 (95th Street)		SECTION 29R-N-1		DRILLED BY KL&ES		DATE 6/12/06	
COUNTY Cook LOCATION 104th Avenue/Flavin Road and 95th Street (Job # D-91-026-02)							
Boring No.	Station	Offset	Surface El.	Surf. Wat. El.		Groundwater Elev.	
SB-3	213+65	12' L	703.75+ M.S.L.	D E P	B L O	QU	W %
				When Drilling		At Completion	
				Dry		Dry	
				H W S		T S F %	
2" BITUMINOUS CONCRETE PAVEMENT							
1.0				2		784.3	
2.0				2		1.30 S	
3.0				2		23.0	
4.0				4		3.90 S	
5.0				7		18.1	
6.0				3		2.75 P	
7.0				2		0.25 P	
8.0				3		5.40 S	
9.0				2		2.50 B/S	
10.0				3		22.3	
11.0				1		0.60 B/S	
12.0				2		25.4	
13.0				1		0.60 B/S	
14.0				2		0.43 B/S	
15.0				3		22.5	
16.0				4		0.43 B/S	
17.0				8		0.43 B/S	
18.0				7		24.1	
19.0				2		0.50 B/S	
20.0				1		0.50 B/S	
21.0				1		23.5	



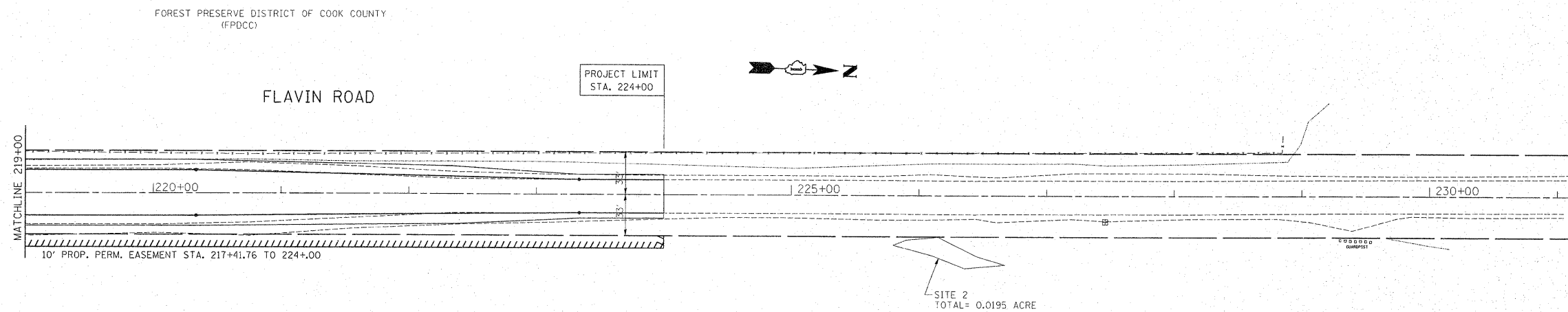
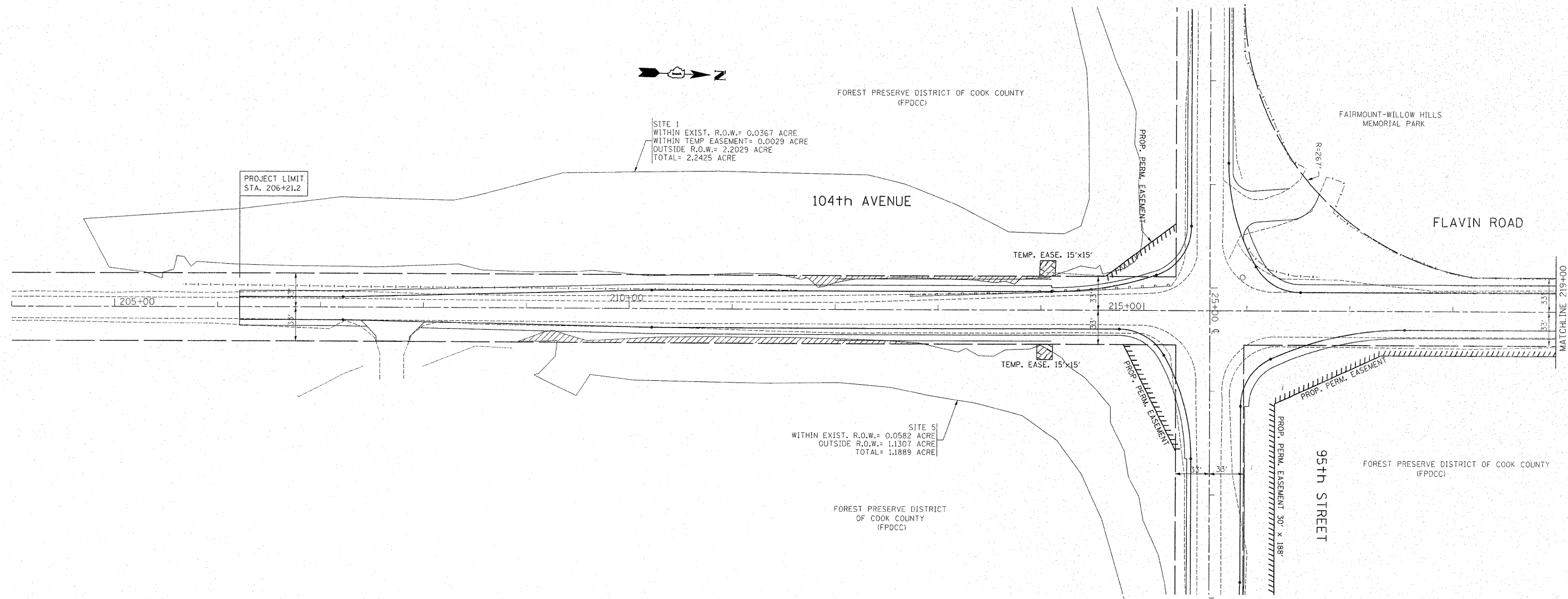
ILLINOIS DEPARTMENT OF TRANSPORTATION STRUCTURE BORING LOG							
Proposed Improvements (Contract No. 62377)							
Page 1 of 2							
ROUTE FAU 1566 (95th Street)		SECTION 29R-N-1		DRILLED BY KL&ES		DATE 6/12/06	
COUNTY Cook LOCATION 104th Avenue/Flavin Road and 95th Street (Job # D-91-026-02)							
Boring No.	Station	Offset	Surface El.	Surf. Wat. El.		Groundwater Elev.	
SB-2	212+85	9.5' L	702.77+ M.S.L.	D E P	B L O	QU	W %
				When Drilling		At Completion	
				Dry		Dry	
				H W S		T S F %	
1" BITUMINOUS CONCRETE PAVEMENT							
1.0				3		23.1	
2.0				2		1.90 B/S	
3.0				3		19.8	
4.0				2		2.70 B/S	
5.0				3		20.1	
6.0				4		5.00 B/S	
7.0				3		16.7	
8.0				6		22.4	
9.0				2		1.50 P	
10.0				2		0.50 P	
11.0				6		45.3	
12.0				2		2.00 P	
13.0				3		1.10 B/S	
14.0				3		19.5	
15.0				2		0.90 B/S	
16.0				2		20.8	
17.0				2		2.00 P	
18.0				4		4.00 P	
19.0				2		2.00 P	
20.0				3		1.50 S	
21.0				5		18.1	
22.0				3		12.6	
23.0				3		1.50 P	
24.0				3		20.2	
25.0				4		1.25 P	
26.0				4		21.9	
27.0				4		1.25 P	
28.0				4		21.9	
29.0				4		20.2	
30.0				5		1.50 B/S	
31.0				3		2.10 B/S	
32.0				5		2.70 S	
33.0				6		19.9	
34.0				3		3.00 B/S	
35.0				7		2.80 B/S	
36.0				7		16.5	
37.0				6		2.40 B/S	
38.0				8		18.0	
39.0				3		3.00 B/S	
40.0				4		14.2	
41.0				4		0.30 B	
42.0				6		44.2	
43.0				6		0.30 B	
44.0				2		0.52 P	
45.0				3		21.9	

ILLINOIS DEPARTMENT OF TRANSPORTATION STRUCTURE BORING LOG							
Proposed Improvements (Contract No. 62377)							
Page 2 of 2							
ROUTE FAU 1566 (95th Street)		SECTION 29R-N-1		DRILLED BY KL&ES		DATE 6/12/06	
COUNTY Cook LOCATION 104th Avenue/Flavin Road and 95th Street (Job # D-91-026-02)							
Boring No.	Station	Offset	Surface El.	Surf. Wat. El.		Groundwater Elev.	
SB-2	212+85	9.5' L	702.77+ M.S.L.	D E P	B L O	QU	W %
				When Drilling		At Completion	
				Dry		Dry	
				H W S		T S F %	
SANDY CLAY, Gray, Medium, Moist (A-6)							
1.0				4		8	
2.0				3		1.90 B/S	
3.0				3		18.7	
4.0				4		0.62 B/S	
5.0				4		18.7	
6.0				4		2.30 B/S	
7.0				7		14.9	
8.0				4		2.30 B/S	
9.0				6		15.9	
10.0				10		5.20 B/S	
11.0				12		15.9	
12.0				6		5.20 B/S	
13.0				10		15.9	
14.0				6		2.10 B/S	
15.0				3		20.2	
16.0				3		2.10 B/S	
17.0				4		21.9	
18.0				4		1.25 P	
19.0				4		21.9	
20.0				4		20.2	
21.0				5		1.50 B/S	
22.0				5		20.2	
23.0				3		2.10 B/S	
24.0				3		20.2	
25.0				3		2.10 B/S	
26.0				3		20.2	
27.0				3		2.10 B/S	
28.0				3		20.2	
29.0				3		2.10 B/S	
30.0				3		20.2	
31.0				3		2.10 B/S	
32.0				3		20.2	
33.0				3		2.10 B/S	
34.0				3		20.2	
35.0				3		2.10 B/S	
36.0				3		20.2	
37.0				3		2.10 B/S	
38.0				3		20.2	
39.0				3		2.10 B/S	
40.0				3		20.2	
41.0				3		2.10 B/S	
42.0				3		20.2	
43.0				3		2.10 B/S	
44.0				3		20.2	
45.0				3		2.10 B/S	

ILLINOIS DEPARTMENT OF TRANSPORTATION STRUCTURE BORING LOG							
Proposed Improvements (Contract No. 62377)							
Page 1 of 1							
ROUTE FAU 1566 (95th Street)		SECTION 29R-N-1		DRILLED BY KL&ES		DATE 6/12/06	
COUNTY Cook LOCATION 104th Avenue/Flavin Road and 95th Street (Job # D-91-026-02)							
Boring No.	Station	Offset	Surface El.	Surf. Wat. El.		Groundwater Elev.	
SB-4	214+45	17' L	704.82+ M.S.L.	D E P	B L O	QU	W %
				When Drilling		At Completion	
				Dry		Dry	
				H W S		T S F %	
1" BITUMINOUS CONCRETE PAVEMENT							
1.0				5		3.90 B/S	
2.0				4		3.50 B/S	
3.0				5		13.6	
4.0				2		2.25 P	
5.0				2		1.50 P	
6.0				2		1.90 S	
7.0				4		19.3	
8.0				2		1.50 B/S	
9.0				2		2.50 B/S	
10.0				3		0.60 B/S	
11.0				6		26.7	
12.0				3		3.60 B/S	
13.0				7		20.1	
14.0				3		3.60 B/S	
15.0				5		14.8	
16.0				9		4.00 B/S	
17.0				12		14.8	
18.0				5		4.30 B	
19.0							



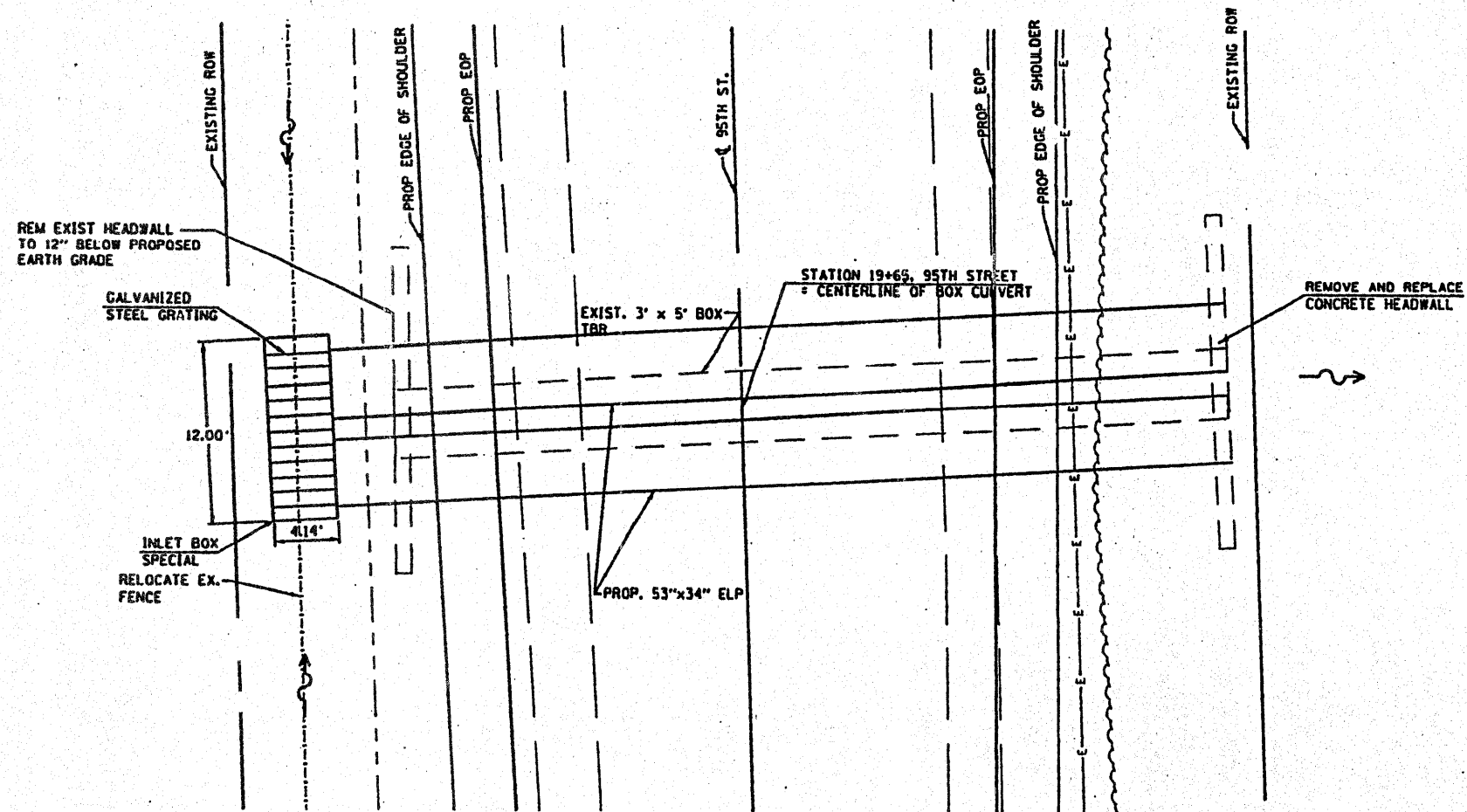
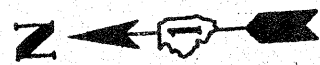
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	PLOT DATE = 2/3/2011	DATE -	REVISED -		SCALE:	SHEET NO.	OF	SHEETS	STA.	TO STA.			



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PLOT DATE = 2/3/2011	DATE -	REVISED -	REVISED -		SCALE:	SHEET NO.	OF SHEETS	STA.	TO STA.	CONTRACT NO. 62377		
ILLINOIS FED. AID PROJECT												

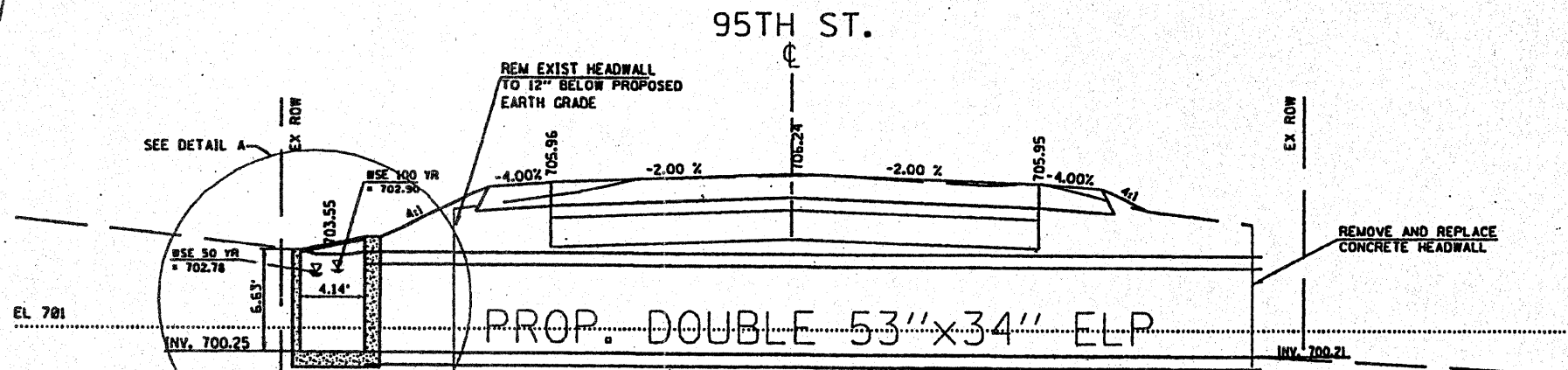
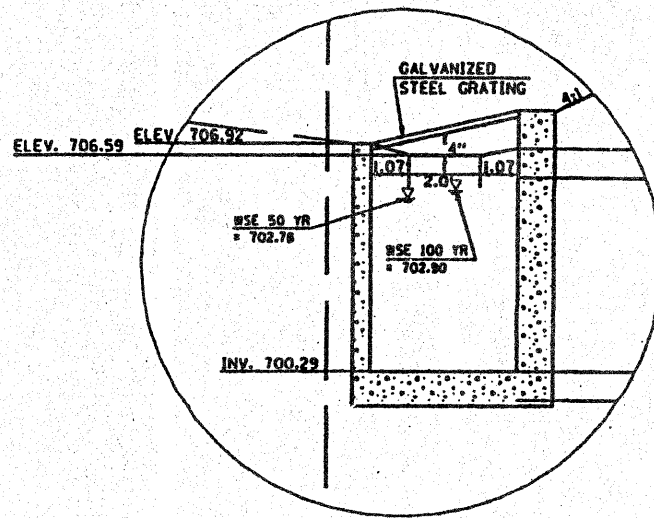
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1566	29 R-N-1	COOK	120	59
STA.	TO STA.			
FED. ROAD DIST. NO. ILLINOIS FED. AID PROJECT				

CONTRACT NO.: 62377



PLAN VIEW

DETAIL A



ELEVATION VIEW
LOOKING EAST

EXHIBIT 2-00B

REVISIONS	
NAME	DATE

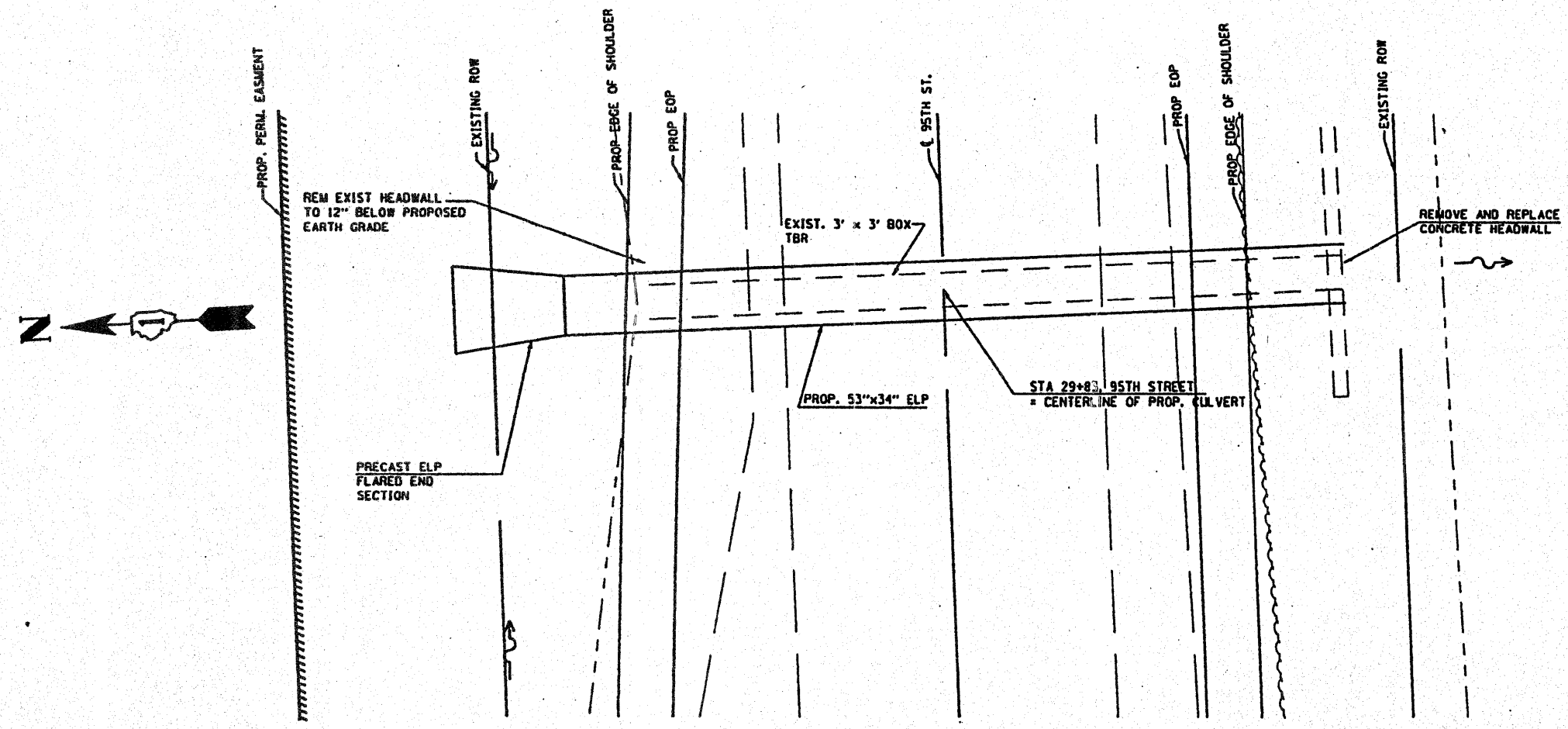
ILLINOIS DEPARTMENT OF TRANSPORTATION
 MAJOR CULVERT CROSSING
 STATION 19+65
 PROP. DOUBLE 53"x34"
 CONC. ELLIPTICAL PIPE
 EXHIBIT 2-00B

SCALE: VERT. 1"=10'
 HORIZ. 1"=40'
 DATE 11/19/2003

DRAWN BY R/LN
 CHECKED BY MED

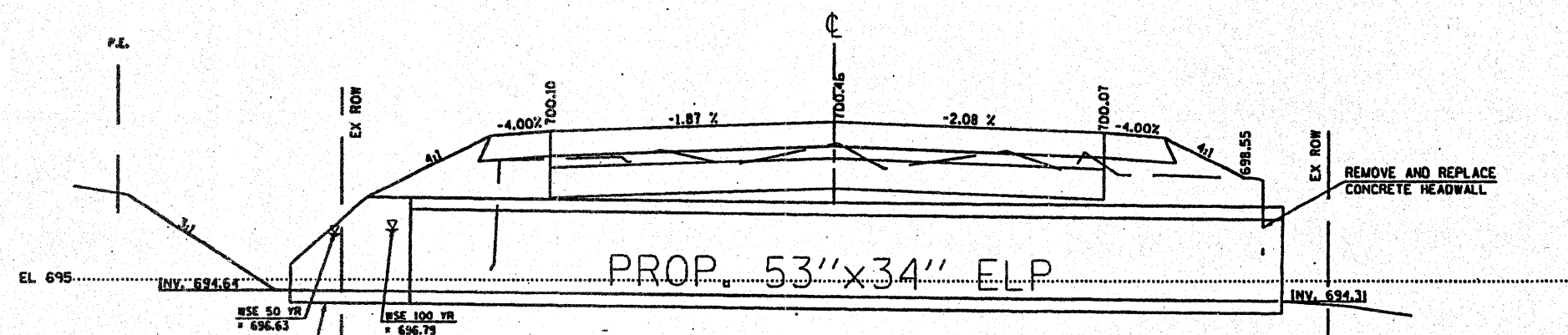
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1566	29 R-N-1	COOK	120	60
STA.		TO STA.		
FED. ROAD DIST. NO.		ILLINOIS FED. AID PROJECT		

CONTRACT NO.: 62377



PLAN VIEW

95TH ST.



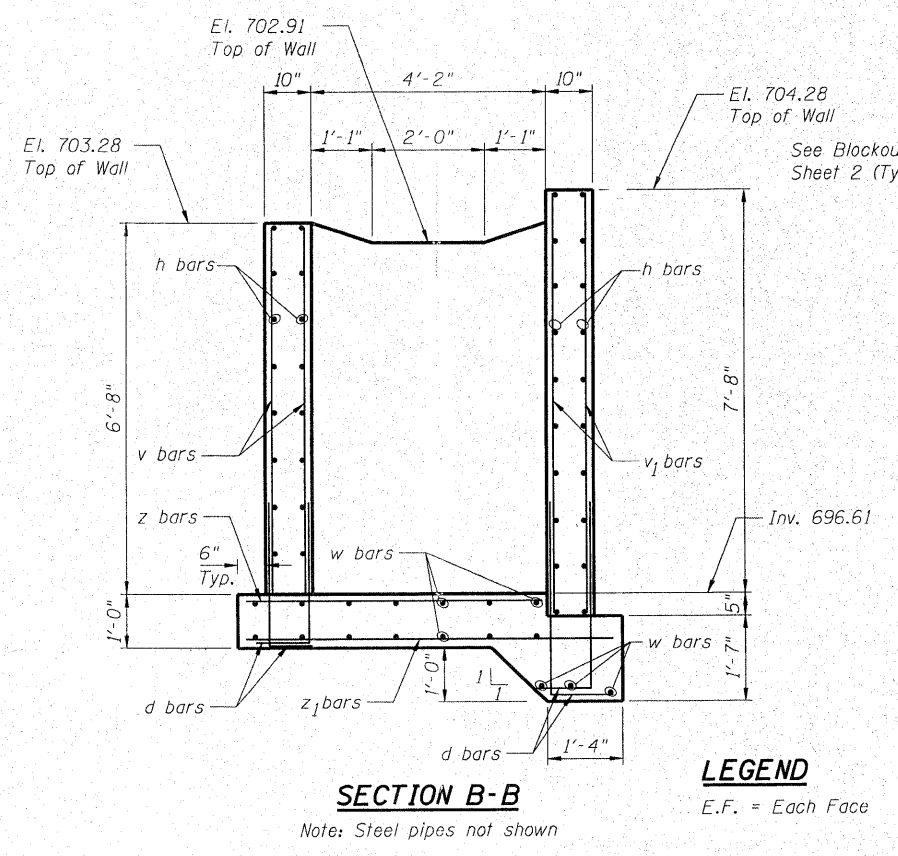
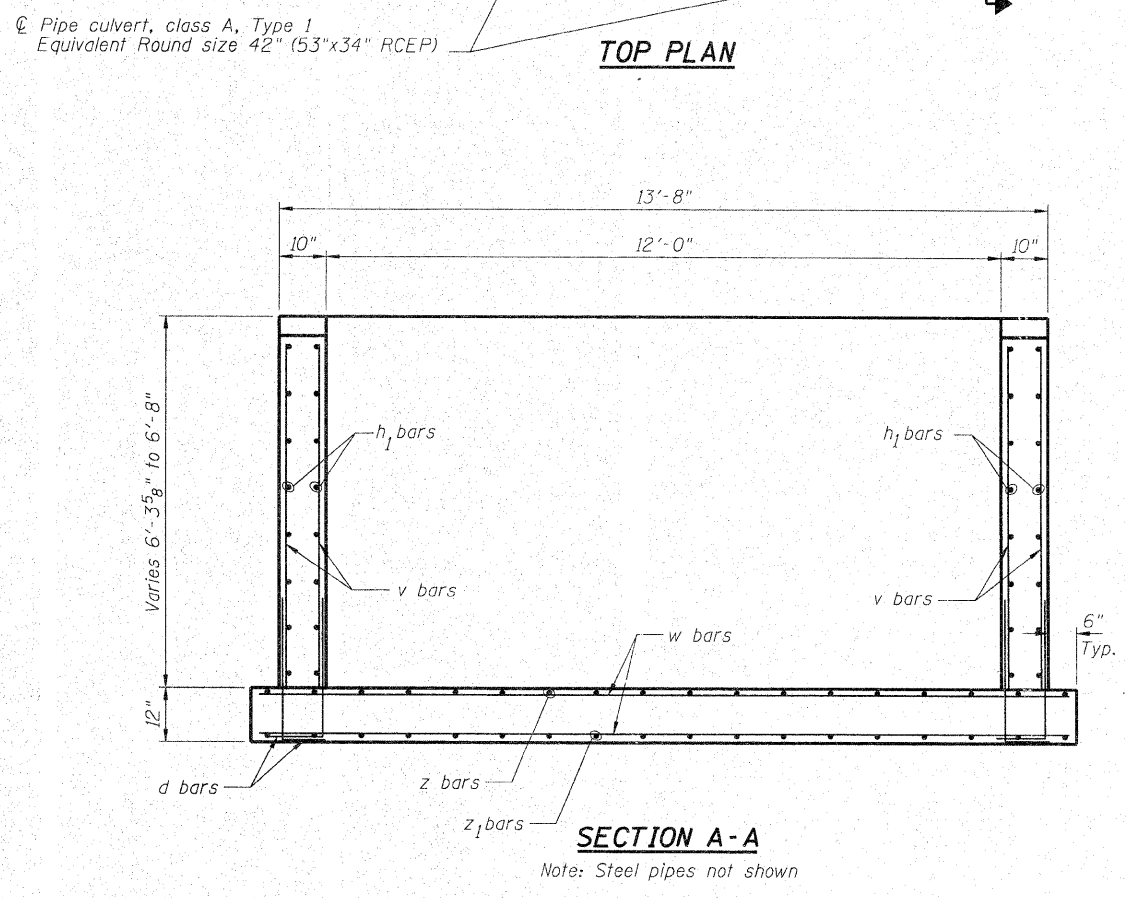
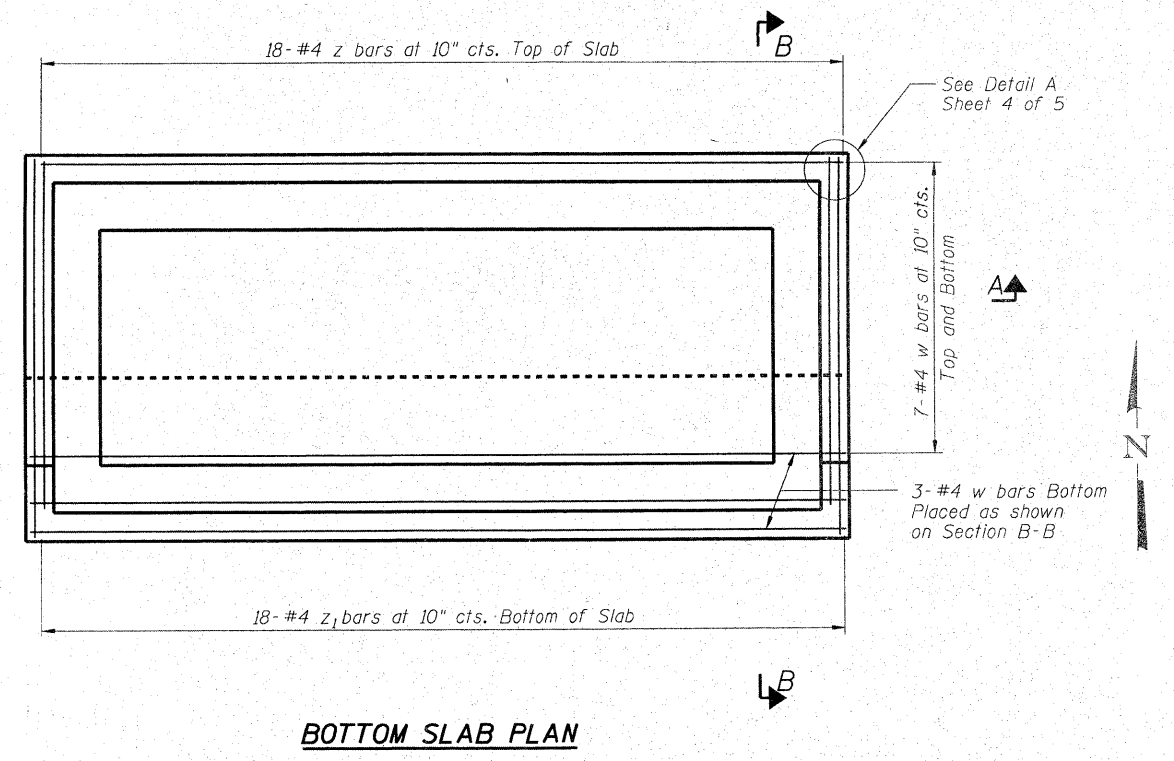
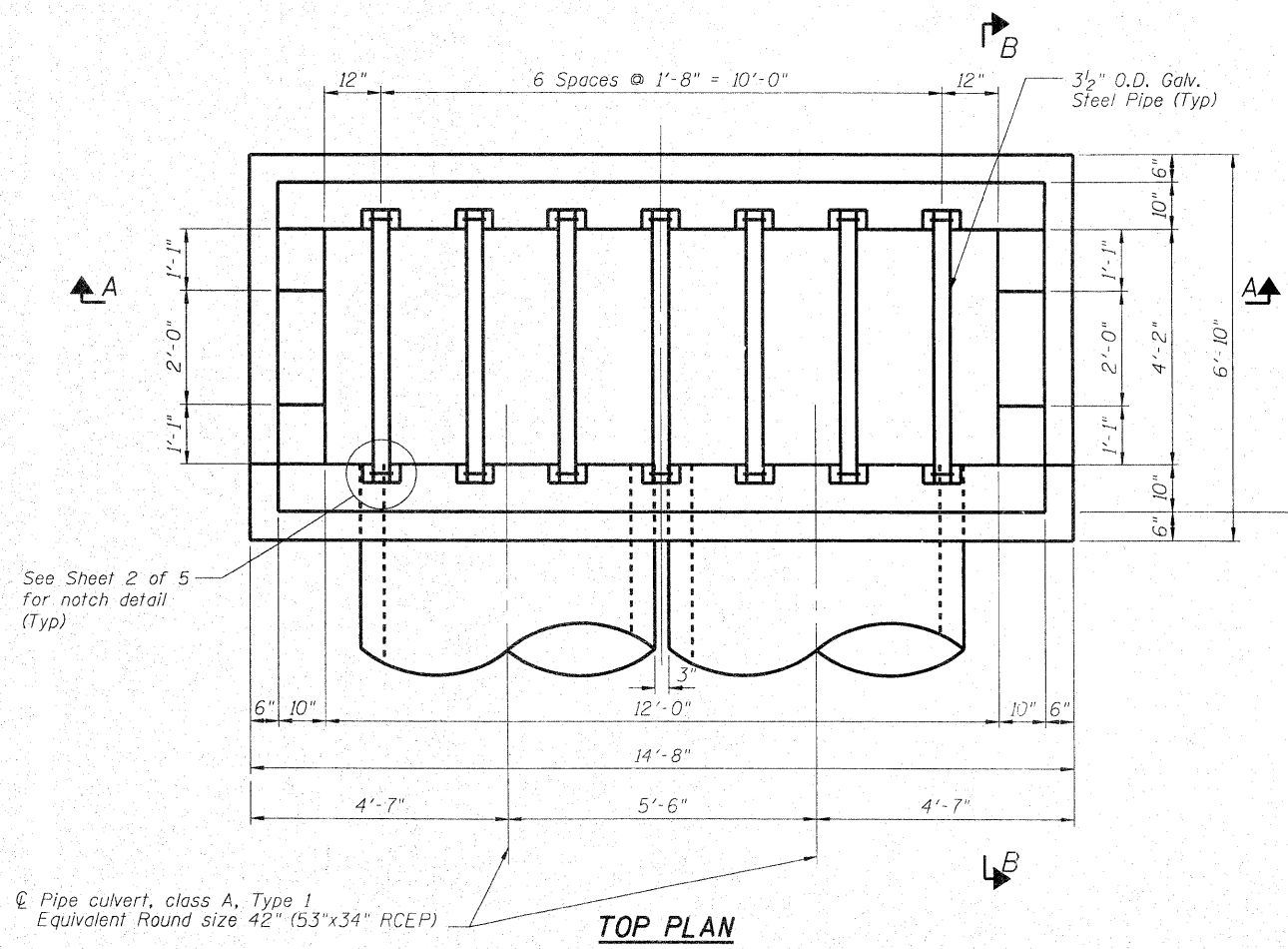
ELEVATION VIEW
LOOKING EAST

EXHIBIT 2-00C

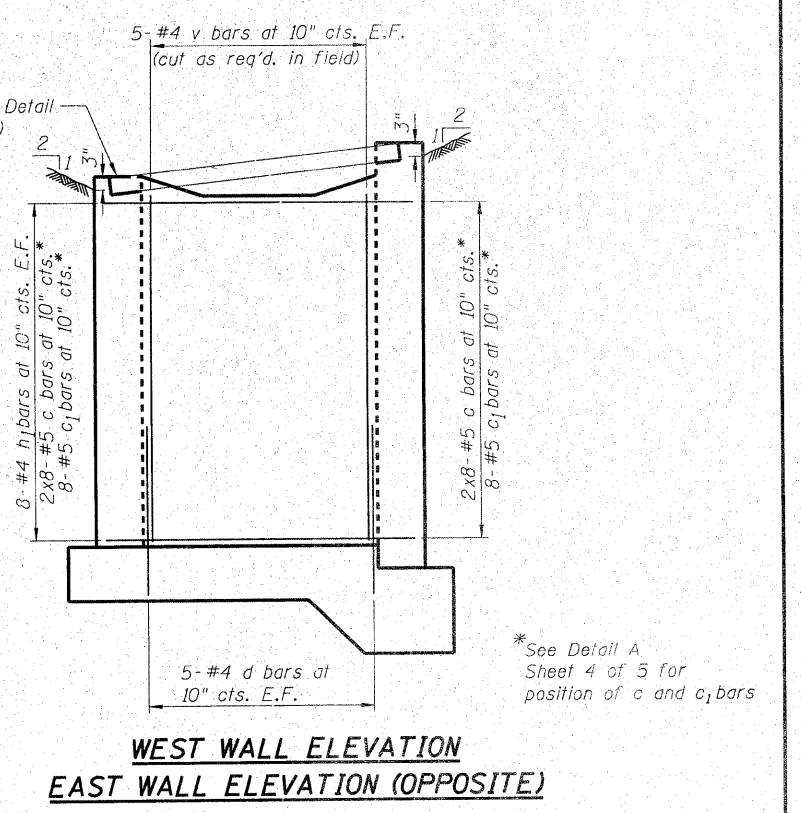
REVISIONS	
NAME	DATE

ILLINOIS DEPARTMENT OF TRANSPORTATION
 MAJOR CULVERT CROSSING
 STATION 29+83
 PROP. 53" x 34" ELLIPTICAL
 CONC. PIPE
 EXHIBIT 2-00c

SCALE: VERT. DRAWN BY: RLH
 HORIZ. CHECKED BY: MED
 DATE: 11/19/2003



LEGEND
E.F. = Each Face



SHEET 1 OF 5



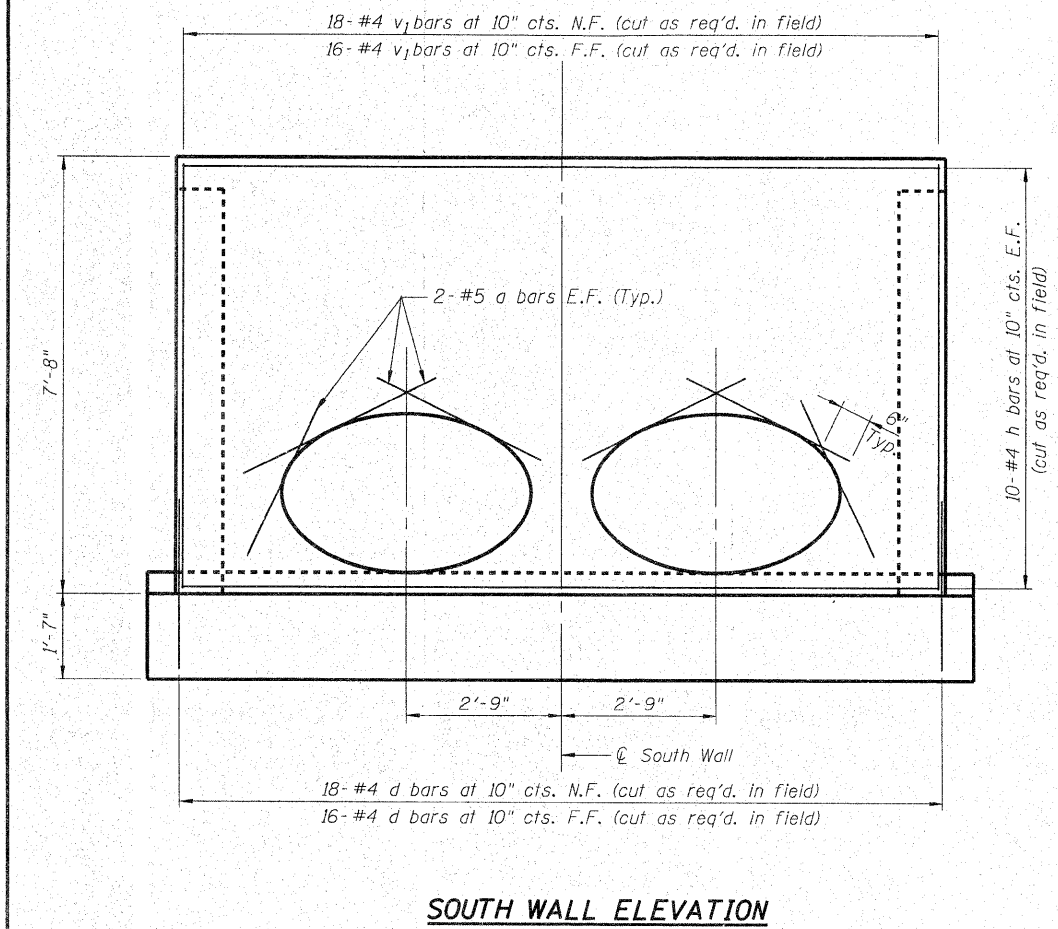
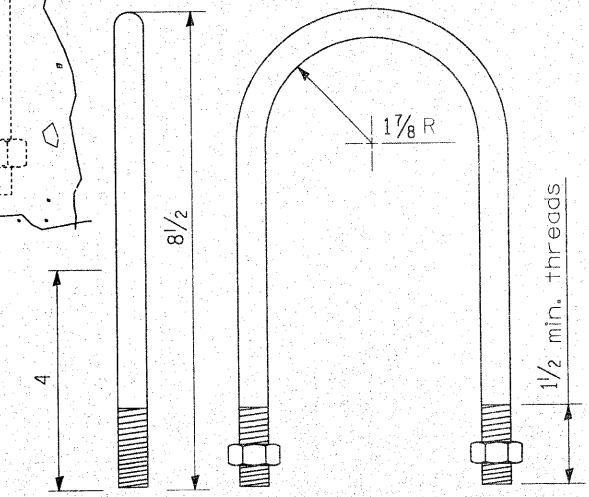
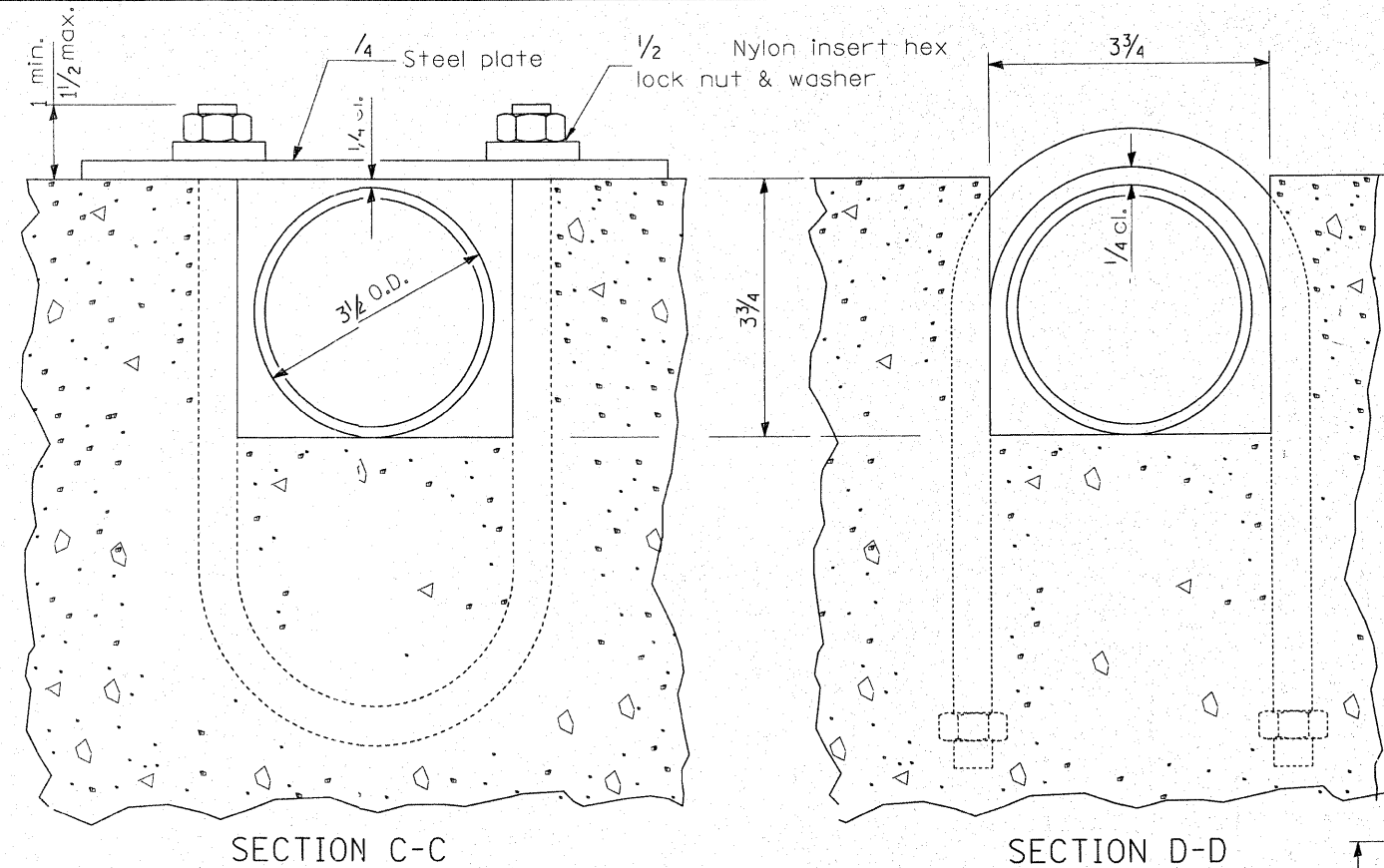
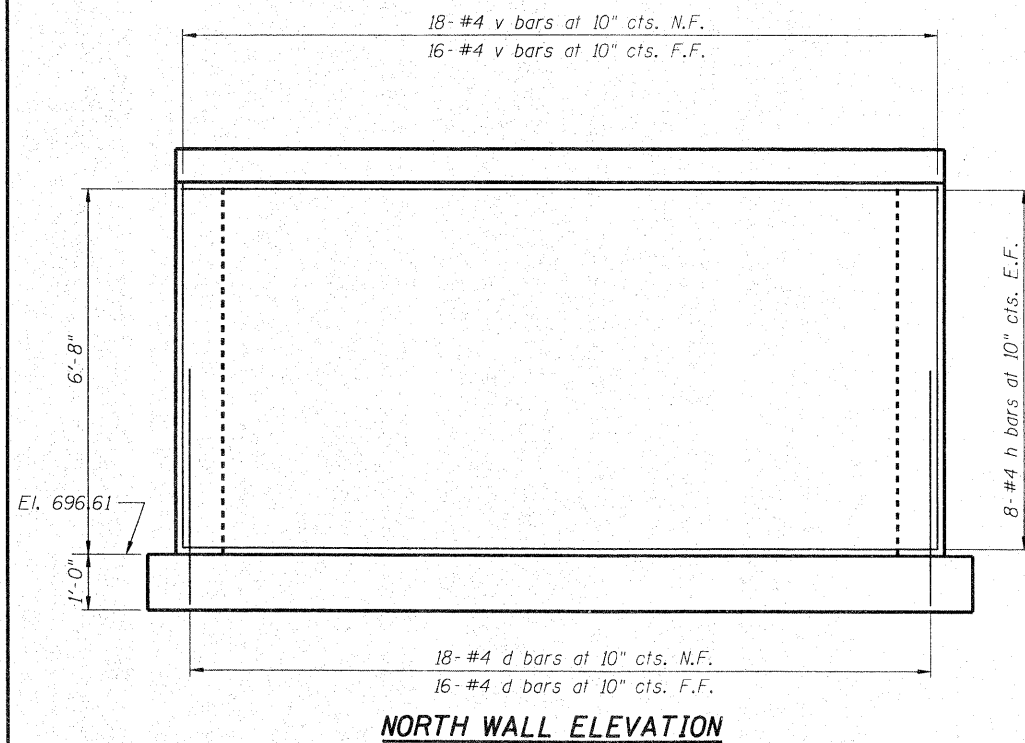
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PLOT SCALE =	CHECKED - BLB	REVISIONS -
PLOT DATE =	DRAWN - BCD	REVISIONS -
	CHECKED - BLB	REVISIONS -

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

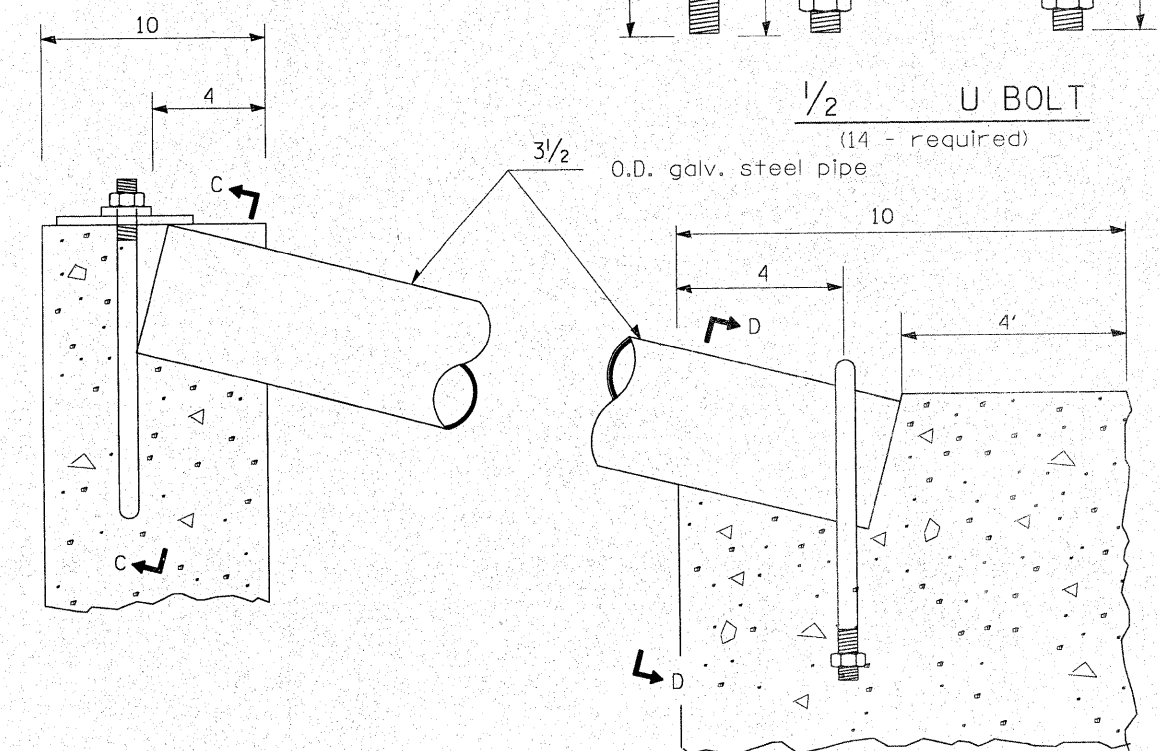
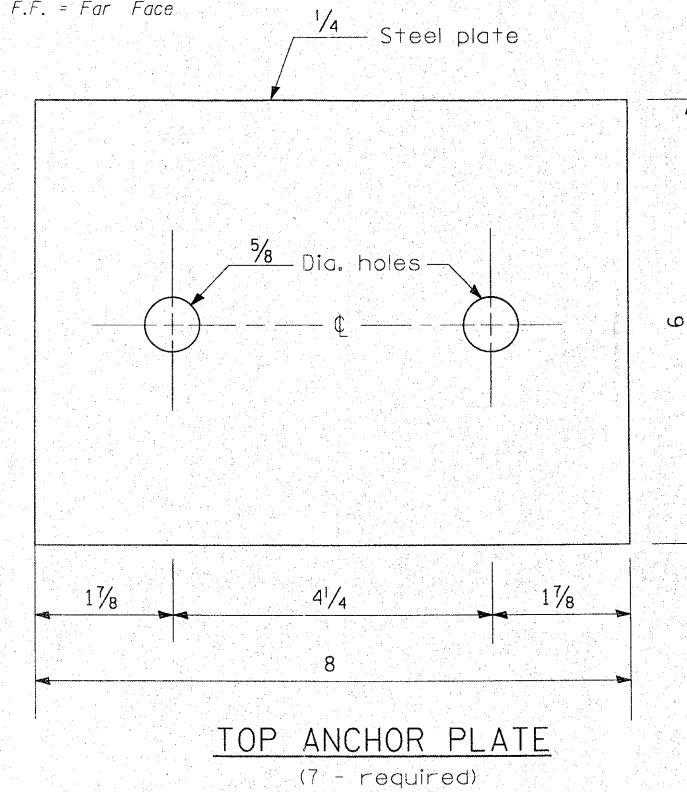
CONCRETE DROP BOX AT STATION 19+65

SHEET NO. OF SHEETS

F.A. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
1566	29 R-N-1	COOK	120	61
CONTRACT NO. 62377			ILLINOIS FED. AID PROJECT	

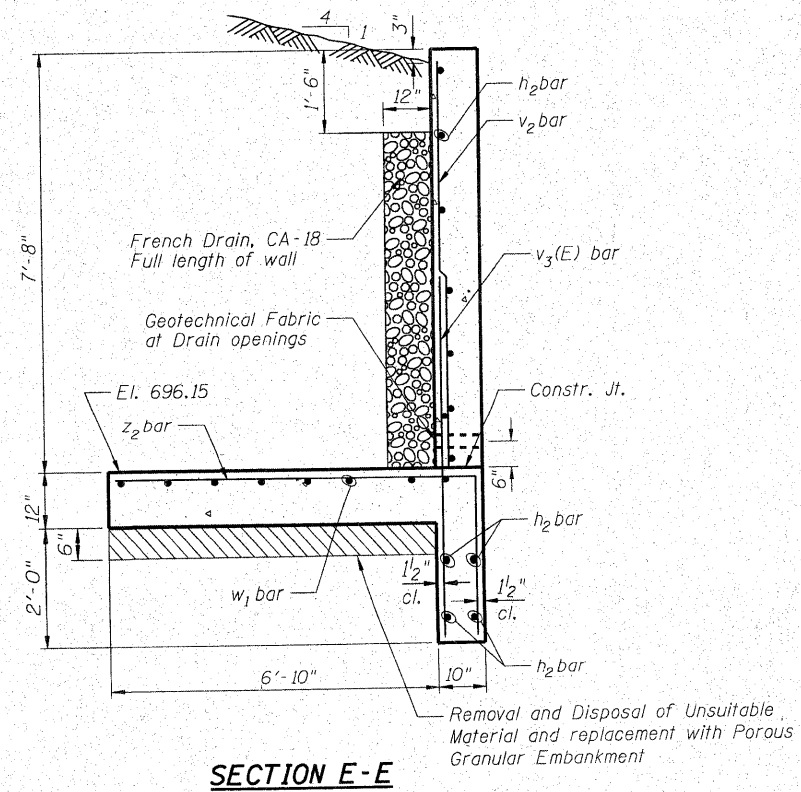
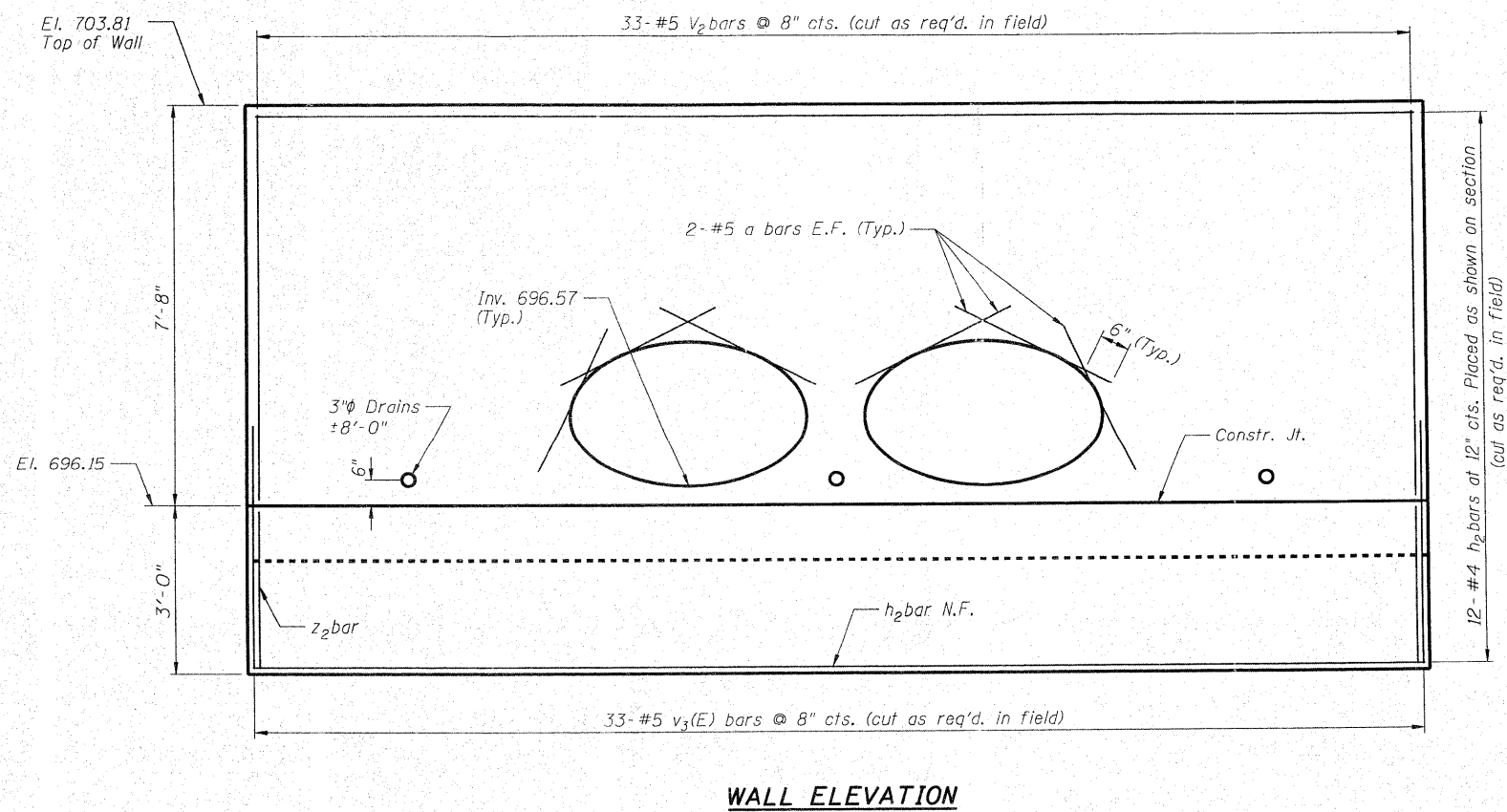
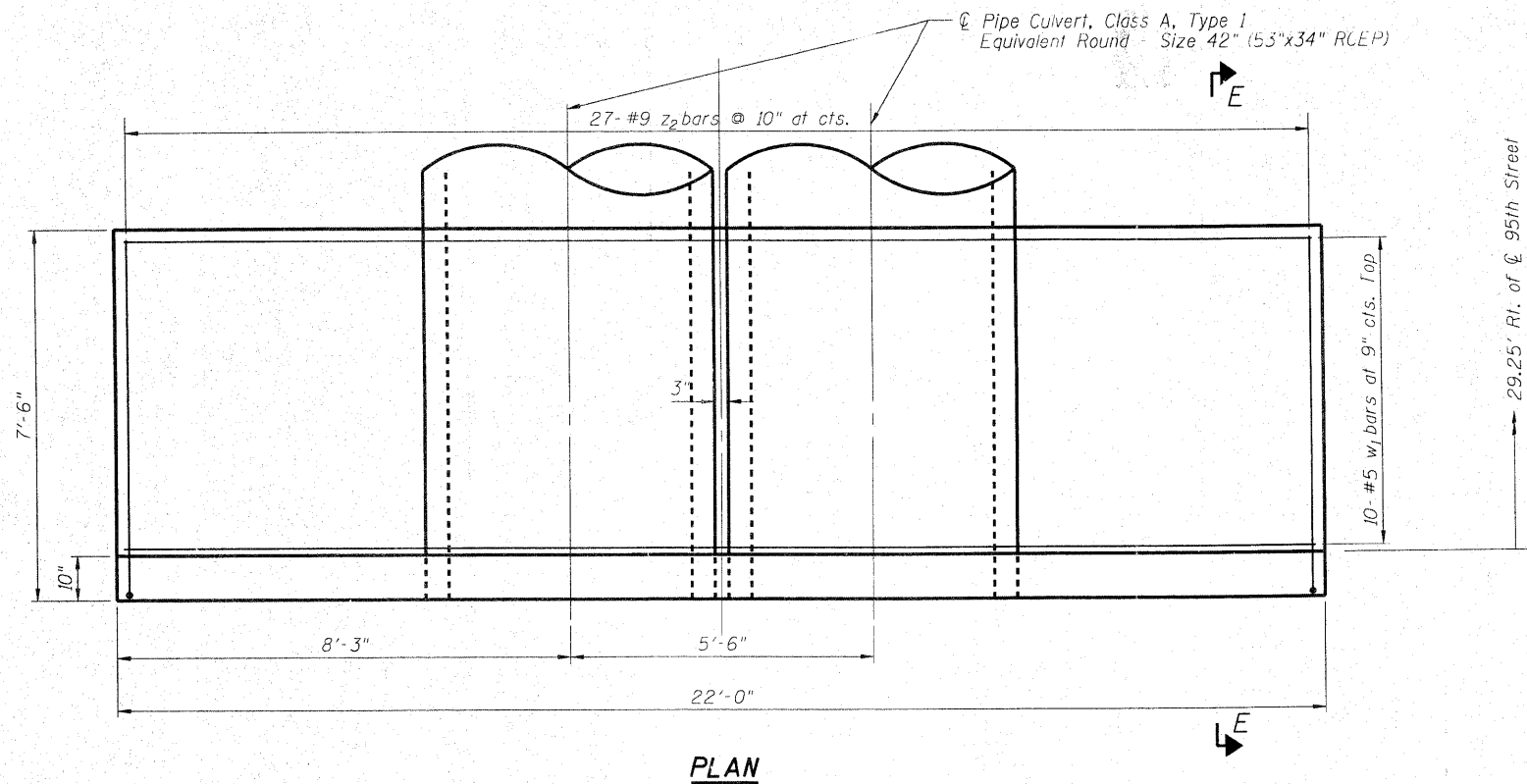


LEGEND
E.F. = Each Face
N.F. = Near Face
F.F. = Far Face



DETAIL AT BLOCKOUTS SHEET 2 OF 5

	USER NAME =	DESIGNED - BAB	REVISED -	STATE OF ILLINOIS DEPARTMENT OF TRANSPORTATION	CONCRETE DROP BOX AT STATION 19+65	F.A. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
	PLOT SCALE =	CHECKED - BLB	REVISED -			1566	29 R-N-1	COOK	120	62
PLOT DATE =	DRAWN - BCD	REVISED -	CONTRACT NO. 62377							
	CHECKED - BLB	REVISED -	ILLINOIS FED. AID PROJECT							
			SHEET NO. OF SHEETS							



SHEET 3 OF 5



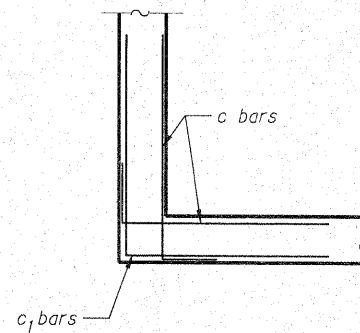
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	CHECKED - BLB	REVISED -

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

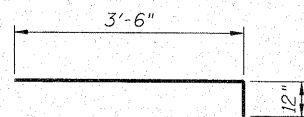
HEADWALL AT STATION 19+65

SHEET NO. OF SHEETS

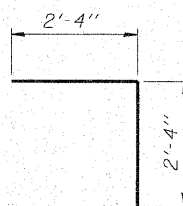
F.A. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
1566	29 R-N-1	COOK	120	63
CONTRACT NO. 62377				
ILLINOIS FED. AID PROJECT				



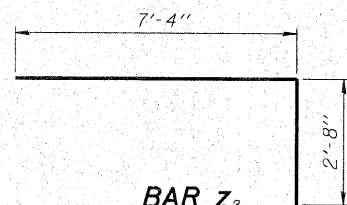
DETAIL A



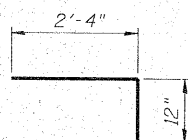
BAR d



BAR c1



BAR z2



BAR c

DESIGN SPECIFICATIONS

2002 AASHTO Standard Specification for Highway Bridges, 17th edition.

DESIGN STRESSES

$f_y = 60,000 \text{ psi}$
 $f'_c = 3,500 \text{ psi}$
 Allowable Net Soil Bearing Pressure = 2,400 psf Minimum

GENERAL NOTES

Reinforcement bars shall conform to requirements of ASTM A706, Gr 60. See Special Provisions.

Place reinforcing bars to provide 2 inches clear concrete cover except where shown on drawings.

Reinforcement bars designated (E) shall be epoxy coated.

All construction joints shall be bonded.

Provide 1" chamfer on all exposed edges, except where shown on drawings.

Place geotechnical fabric where shown (to be included in the work for FRENCH DRAIN, CA-18).

Additional undercutting beyond that shown on drawings is not anticipated, but if required to achieve the minimum allowable net soil bearing pressure, it will be paid for as REMOVAL AND DISPOSAL OF UNSUITABLE MATERIAL. Replacement material shall be paid for as POROUS GRANULAR EMBANKMENT.

Grating shall include pipes, plates, expansion bolts, and all other hardware as shown and shall be included with the contract unit price per Cu. Yd. for CONCRETE STRUCTURES.

Bolts, Nuts, and Washers shall be in accordance with Article 1006.08 of the Standard Specifications and shall be galvanized.

Steel Plates shall conform to AASHTO M-183 and shall be galvanized conforming to AASHTO M-111.

Steel Pipes shall conform to A.S.T.M. A-53 (Type E or S) Grade B, Schedule 40, and shall be galvanized conforming to A.S.T.M. A-120. Contractor shall verify pipe length.

Design scour elevation at downstream end is 693.15'.

BILL OF MATERIAL

Bar	No.	Size	Length	Shape	
a	24	#5	5'-4"	—	
c	64	#5	3'-4"	└	
c1	32	#5	4'-8"	└	
d	88	#4	4'-6"	└	
h	36	#4	14'-4"	—	
h1	32	#4	5'-6"	—	
h2	12	#4	21'-8"	—	
v	54	#4	6'-6"	—	
v1	34	#4	7'-6"	—	
v2	33	#5	7'-6"	—	
v3 (E)	33	#5	5'-8"	—	
w	17	#4	14'-4"	—	
w1	10	#5	21'-8"	—	
z	18	#4	5'-2"	—	
z1	18	#4	6'-6"	—	
z2	27	#5	10'-0"	└	
Removal and Disposal of Unsuitable Material				Cu Yd.	3
Porous Granular Embankment				Cu Yd.	3
Concrete Structures				Cu Yd.	24.4
Reinforcement Bars				Pound	2520
Reinforcement Bars, Epoxy Coated				Pound	200
French Drain, CA-18				Cu Yd.	5.0



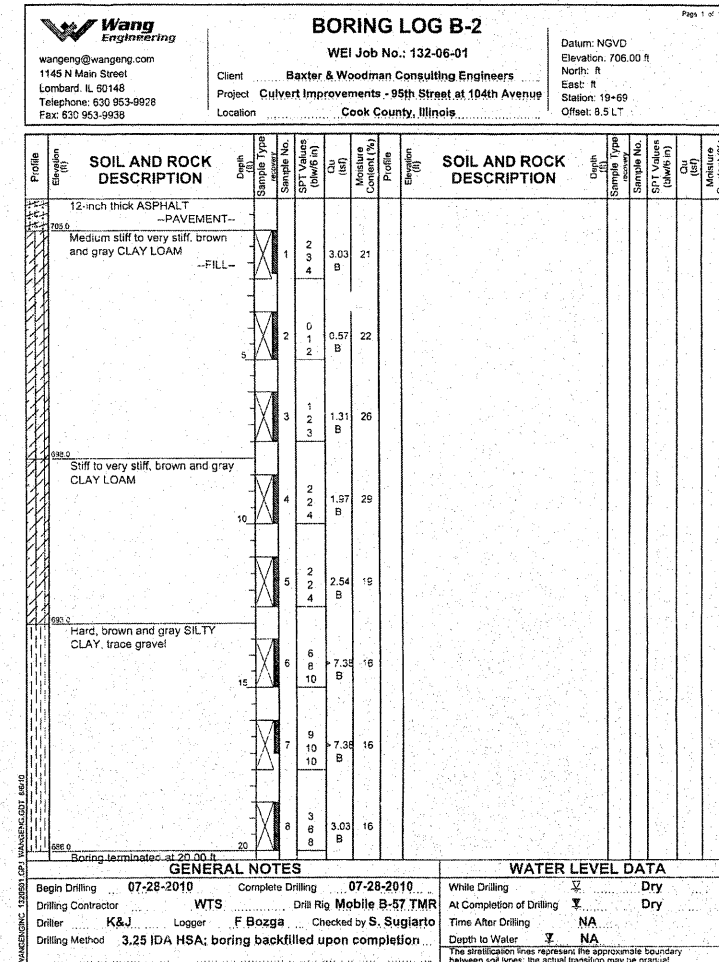
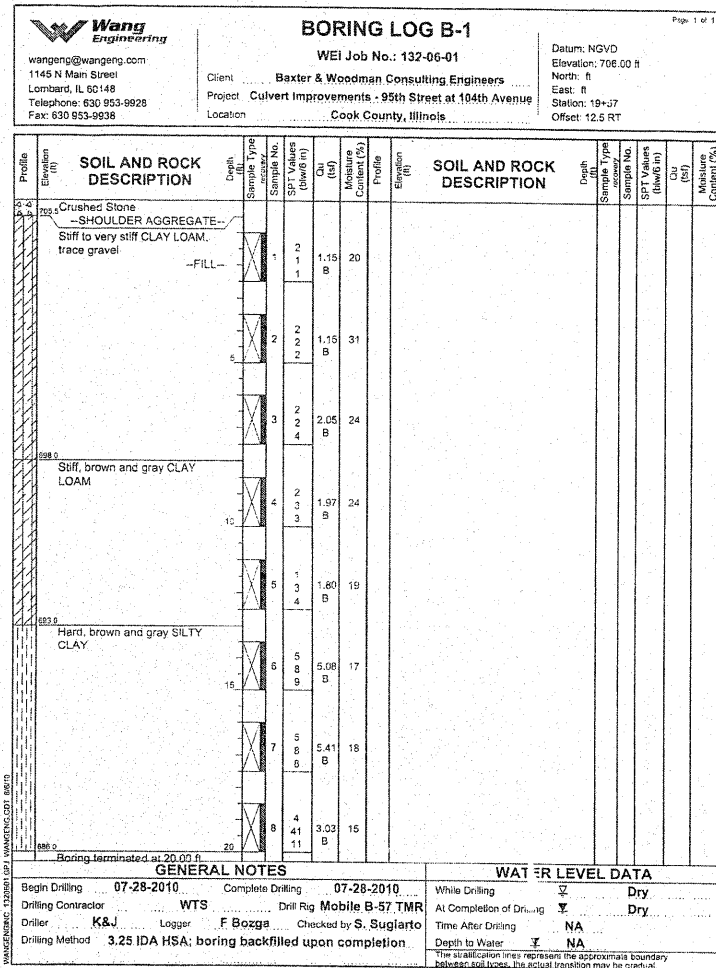
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PLOT DATE =	CHECKED - BLB	REVISED -

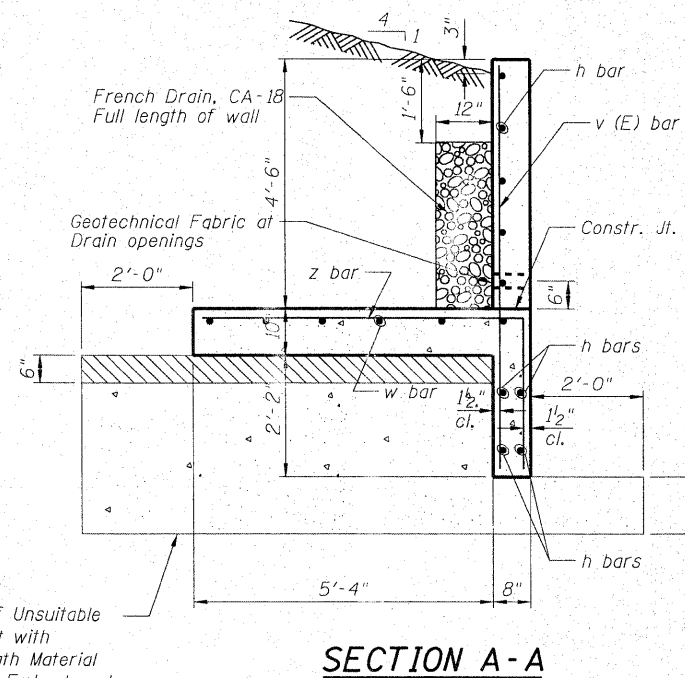
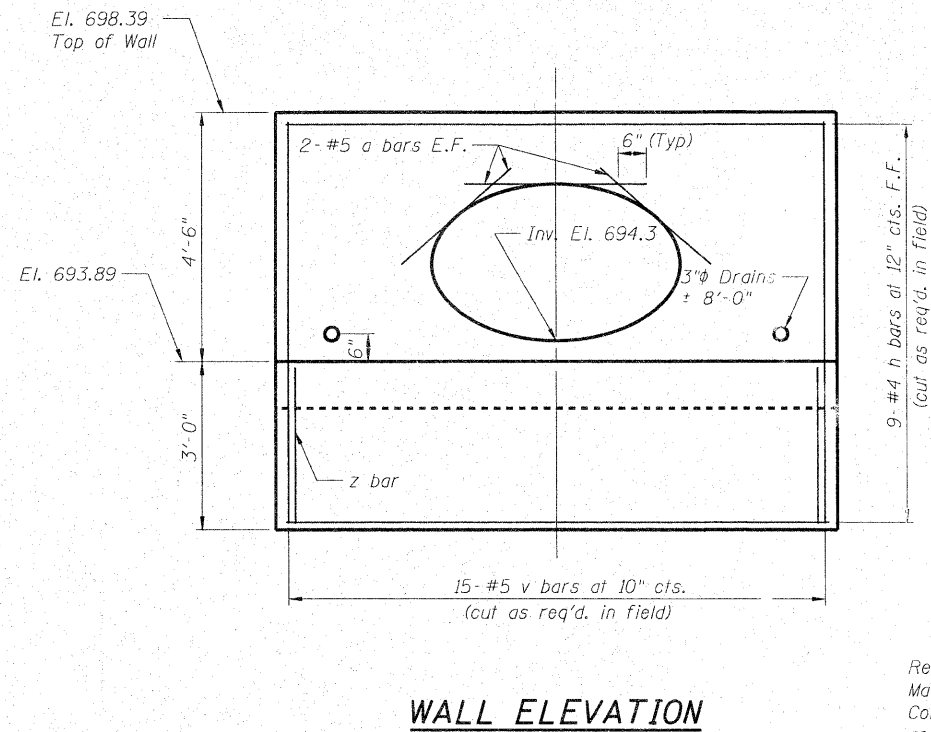
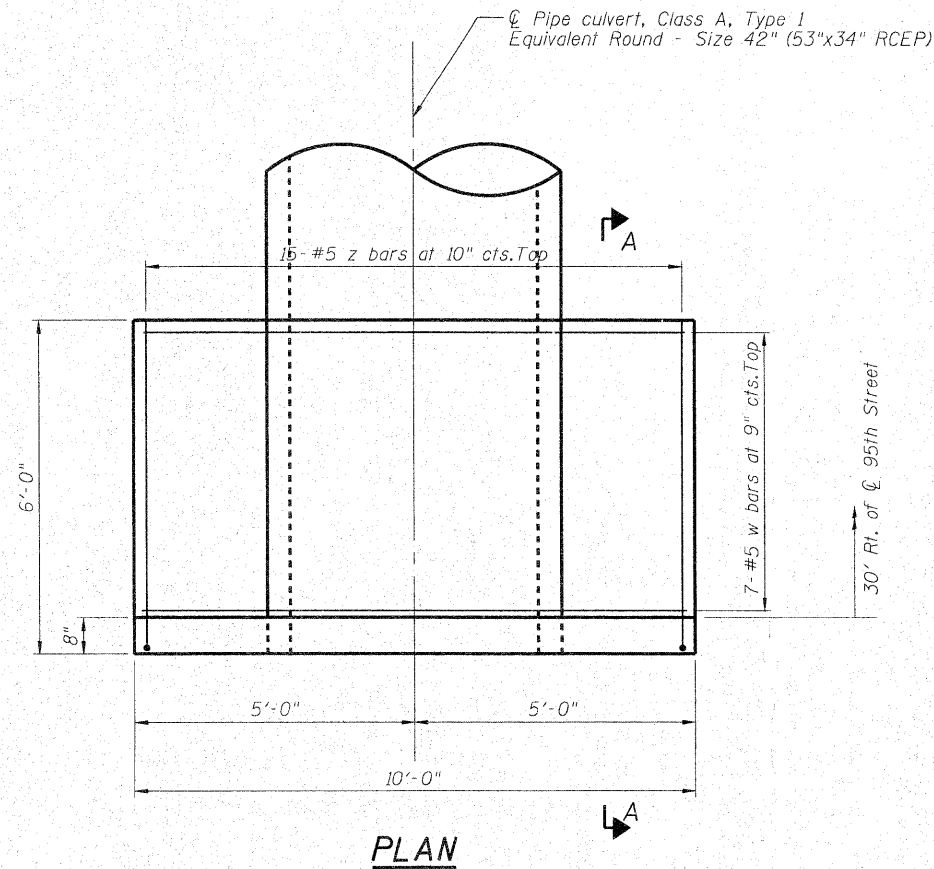
STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

GENERAL NOTES & BILL OF MATERIALS

SHEET NO. OF SHEETS

F.A. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
1566	29 R-N-1	COOK	120	64
CONTRACT NO. 62377			ILLINOIS FED. AID PROJECT	





DESIGN SPECIFICATIONS

2002 AASHTO Standard Specification for Highway Bridges, 17th edition.

DESIGN STRESSES

$f_y = 60,000 \text{ psi}$
 $f'_c = 3,500 \text{ psi}$
Allowable Net Soil Bearing Pressure = 1,500 psf Minimum

GENERAL NOTES

Reinforcement bars shall conform to requirements of ASTM A706, Gr 60. See Special Provisions.

Place reinforcing bars to provide 2 inches clear concrete cover except where shown on drawings.

Reinforcement bars designated (E) shall be epoxy coated.

All construction joints shall be bonded.

Provide 1" chamfer on all exposed edges, except where shown on drawings.

Place geotechnical fabric where shown (to be included in the work for FRENCH DRAIN, CA-18).

The limits and quantities of removal and replacement shown are based on the boring data and may be modified by the District Geotechnical and Field Engineers for variable subsurface conditions encountered in the field.

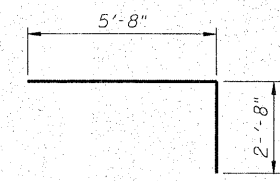
Additional undercutting beyond that shown on drawings is not anticipated, but if required to achieve the minimum allowable net soil bearing pressure, it will be paid for as REMOVAL AND DISPOSAL OF UNSUITABLE MATERIAL. Replacement material shall be paid for as CONTROLLED LOW STRENGTH MATERIAL (CLSM).

Mix design for CLSM shall be in accordance with Section 1019.05, "MIX 3".

Design scour elevation at downstream end is 690.89'.

BILL OF MATERIAL

Bar	No.	Size	Length	Shape
a	6	#5	5'-4"	—
h	9	#4	9'-8"	—
v(E)	12	#5	7'-2"	—
w	8	#5	9'-8"	—
z	10	#5	8'-4"	└
Removal and Disposal of Unsuitable Material			Cu. Yds.	5
Porous Granular Embankment			Cu. Yds.	1
Removal of Existing Structure			Eq.	1
Concrete Structures			Cu. Yds.	3.5
Reinforcement Bars			Pound	290
Reinforcement Bars, Epoxy Coated			Pound	100
Controlled Low Strength Material			Cu. Yds.	2.0
French Drain, CA-18			Cu. Yds.	1.0

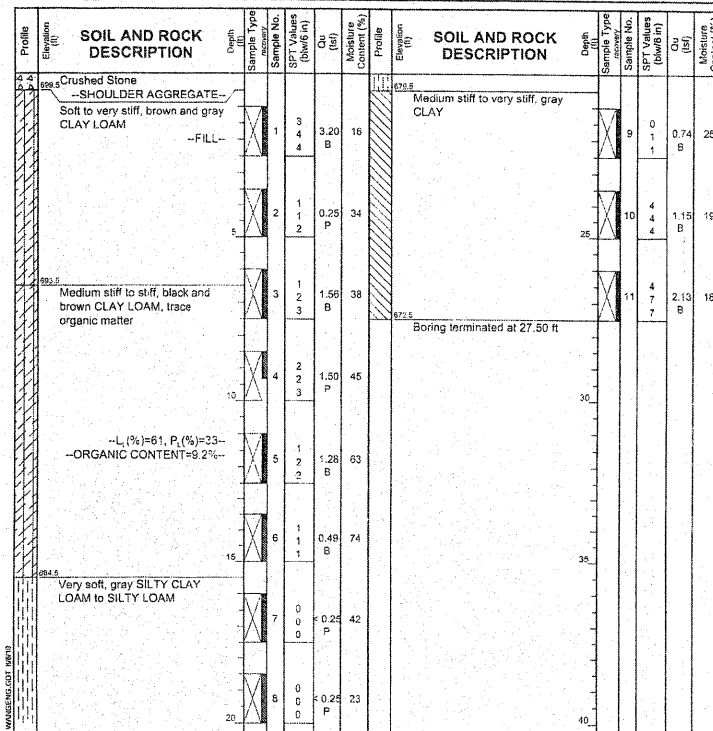


SHEET 1 OF 2

Wang Engineering
 wangeng@wangeng.com
 1145 N Main Street
 Lombard, IL 60148
 Telephone: 630 953-9928
 Fax: 630 953-9938

BORING LOG B-3
 WEI Job No.: 132-06-01
 Client: **Baxter & Woodman Consulting Engineers**
 Project: **Culvert Improvements - 95th Street at 104th Avenue**
 Location: **Cook County, Illinois**

Datum: NGVD
 Elevation: 700.00 ft
 North: ft
 East: ft
 Station: 29+78
 Offset: 17.0 RT

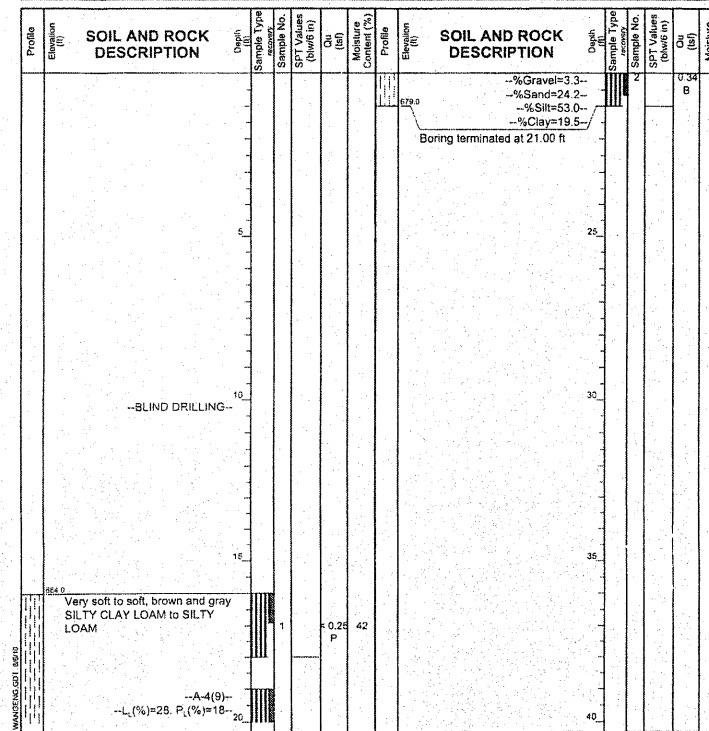


GENERAL NOTES	WATER LEVEL DATA
Begin Drilling: 07-28-2010 Complete Drilling: 07-28-2010 Drilling Contractor: WTS Drill Rig: Mobile B-57 TMR Driller: K&J Logger: F Bozga Checked by: S. Sugiarto Drilling Method: 3.25 IDA HSA; boring backfilled upon completion	While Drilling: <input checked="" type="checkbox"/> Dry At Completion of Drilling: <input checked="" type="checkbox"/> Dry Time After Drilling: NA Depth to Water: <input checked="" type="checkbox"/> NA

Wang Engineering
 wangeng@wangeng.com
 1145 N Main Street
 Lombard, IL 60148
 Telephone: 630 953-9928
 Fax: 630 953-9938

BORING LOG B-3B
 WEI Job No.: 132-06-01
 Client: **Baxter & Woodman Consulting Engineers**
 Project: **Culvert Improvements - 95th Street at 104th Avenue**
 Location: **Cook County, Illinois**

Datum: NGVD
 Elevation: 700.00 ft
 North: ft
 East: ft
 Station: 29+78
 Offset: 17 RT

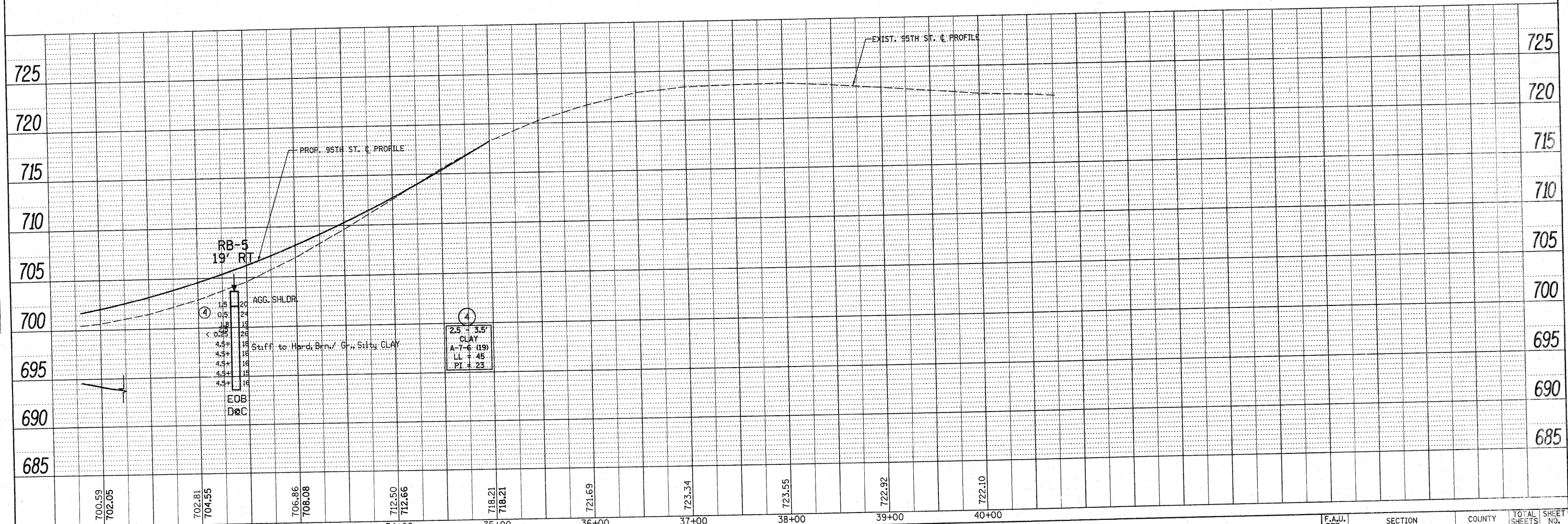
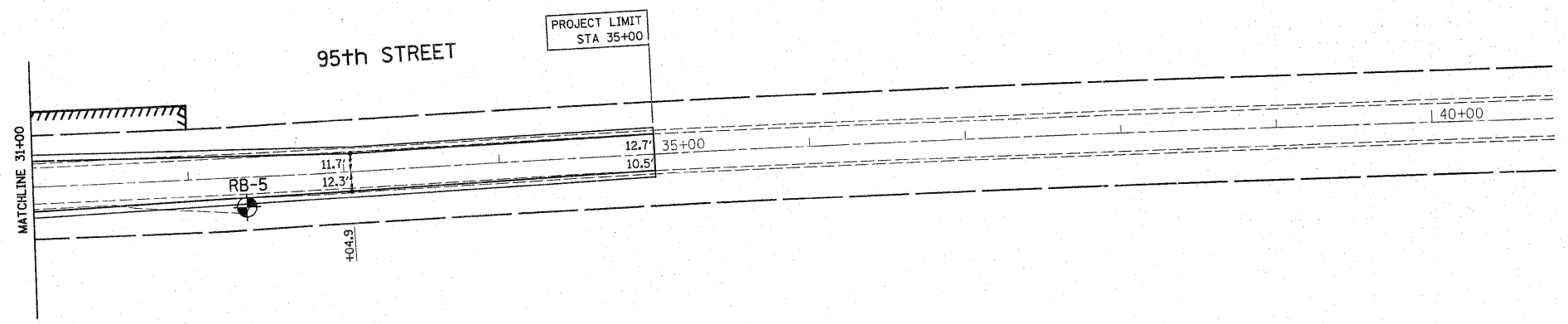


GENERAL NOTES	WATER LEVEL DATA
Begin Drilling: 07-28-2010 Complete Drilling: 07-28-2010 Drilling Contractor: WTS Drill Rig: Mobile B-57 TMR Driller: K&J Logger: F Bozga Checked by: S. Sugiarto Drilling Method: 3.25 IDA HSA; boring backfilled upon completion	While Drilling: <input checked="" type="checkbox"/> Dry At Completion of Drilling: <input checked="" type="checkbox"/> Dry Time After Drilling: NA Depth to Water: <input checked="" type="checkbox"/> NA

SHEET 2 OF 2

DATE	
BY	
SUPPERS	
NOTED	
ALIGNED	
CHECKED	
BY	
FILE NAME	
NO.	

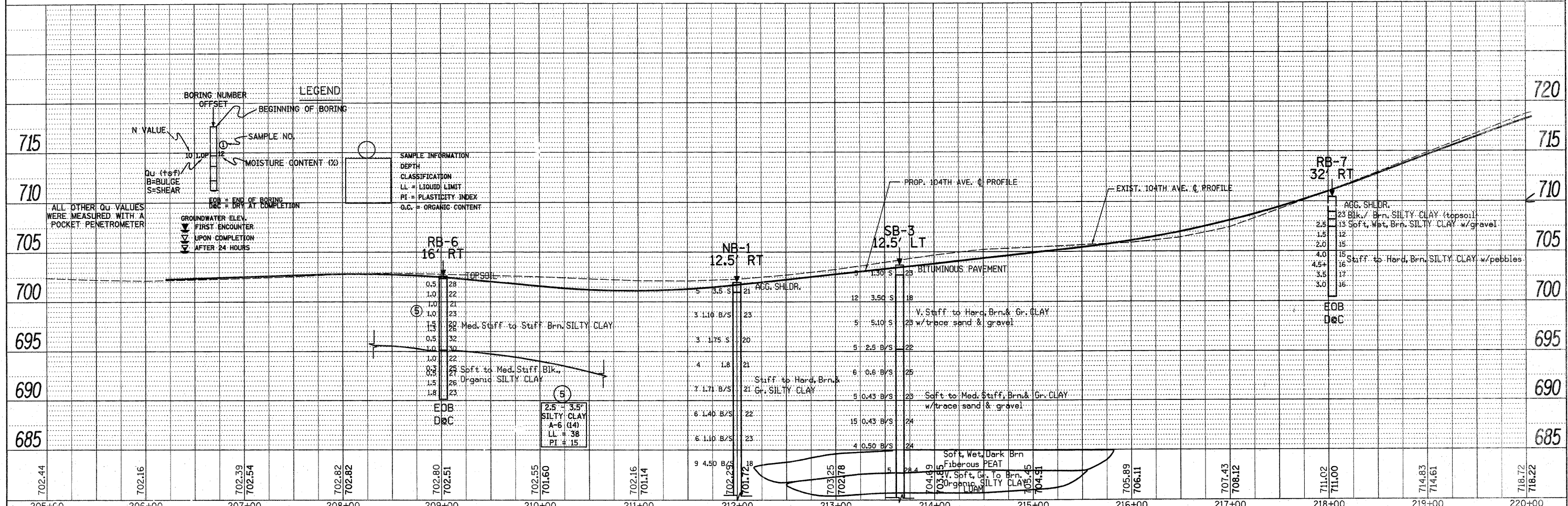
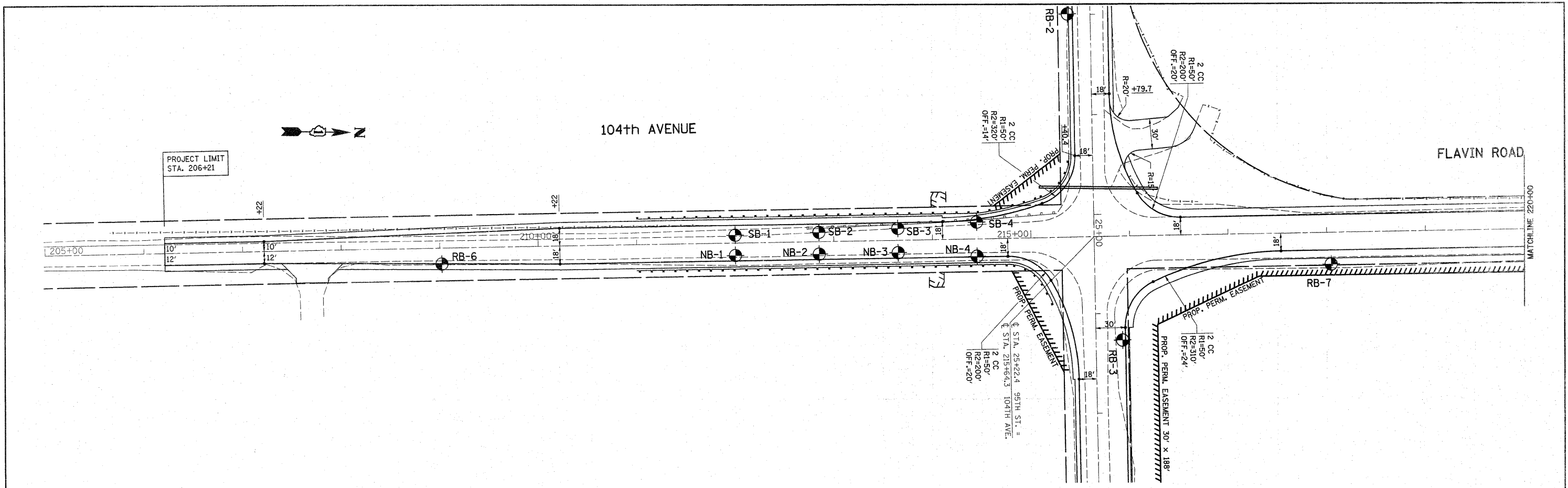
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REVIEWED	
NOTED	
GRADES CHECKED	
BY	
FILE NAME	
NO.	



FILE NAME =	USER NAME = lszekrf	DESIGNED -	REVISED -	STATE OF ILLINOIS DEPARTMENT OF TRANSPORTATION	95th STREET @ 104th AVENUE / FLAVIN ROAD SOIL PLAN AND PROFILE	F.A.U. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.	
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PLOT DATE = 6/7/2010		CHECKED -	REVISED -			CONTRACT NO. 62377					
		DATE -	REVISED -			ILLINOIS FED. AID PROJECT					

DATE	
BY	
REVIEWED	
PLANNED	
NOTED	
NO.	

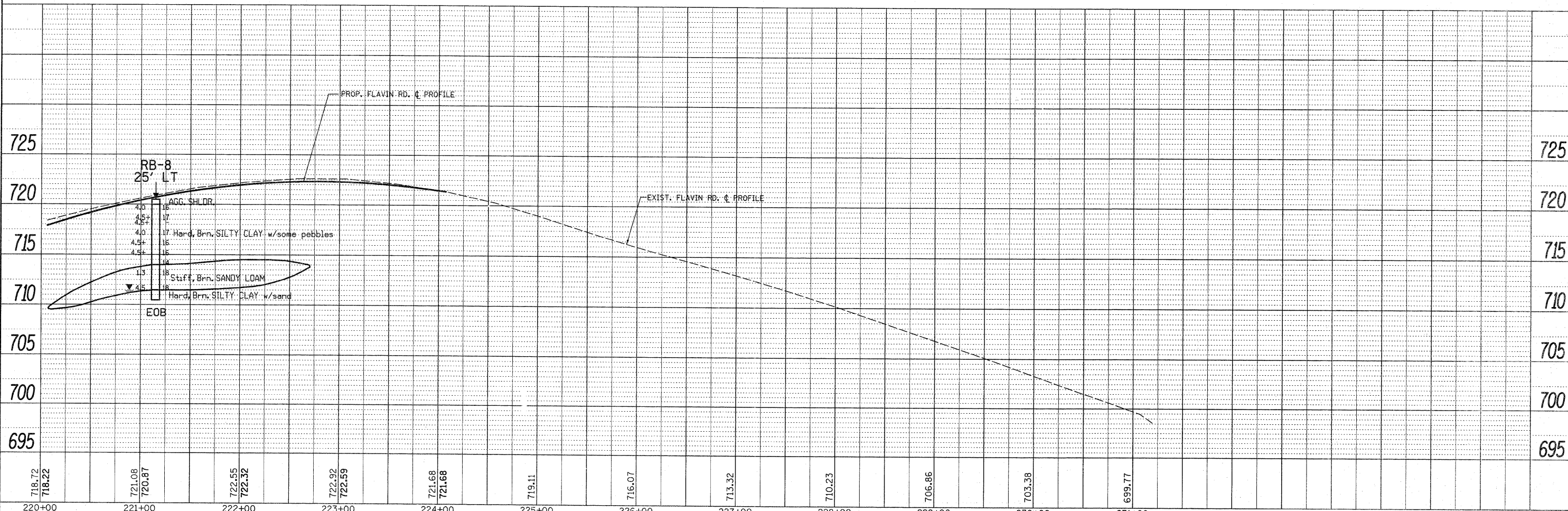
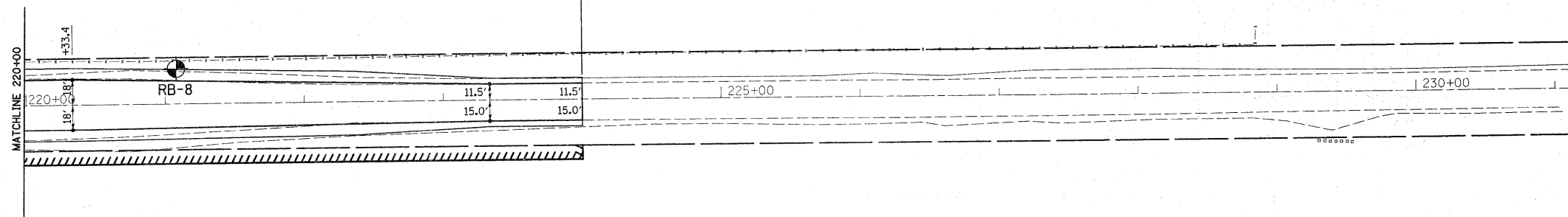
DATE	
BY	
REVIEWED	
PLANNED	
NOTED	
NO.	



FILE NAME =	USER NAME = lszekrf	DESIGNED -	REVISED -	STATE OF ILLINOIS DEPARTMENT OF TRANSPORTATION	104th AVENUE / FLAVIN ROAD @ 95th STREET SOIL PLAN AND PROFILE			F.A.U. RTE. 1566	SECTION 29R-N-1	COUNTY COOK	TOTAL SHEETS 120	SHEET NO. 70
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	PLOT DATE = 6/8/2010	CHECKED -	REVISED -							ILLINOIS FED. AID PROJECT		
		DATE -	REVISED -									

FLAVIN ROAD

PROJECT LIMIT
STA. 224+00



DATE	
BY	
SURVEYED	
ALIGNMENT CHECKED	
NOTE BOOK	
NO. _____	
DRAWN	
DATE	
BY	
CHECKED	
DATE	
BY	
NO. _____	

DATE	
BY	
SURVEYED	
GRADES CHECKED	
NOTE BOOK	
NO. _____	
DRAWN	
DATE	
BY	
CHECKED	
DATE	
BY	
NO. _____	

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

104th AVENUE / FLAVIN ROAD
@ 95th STREET
SOIL PLAN AND PROFILE

F.A.U. RTE. 1566	SECTION 29R-N-1	COUNTY COOK	TOTAL SHEETS 120	SHEET NO. 71
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	PLOT SCALE = 50.000' / IN.	CHECKED -	REVISED -		
	PLOT DATE = 6/7/2010	DATE -	REVISED -		

ILLINOIS DEPARTMENT OF TRANSPORTATION
STRUCTURE BORING LOG
Page 1 of 2
Date: 6/11/05

ROUTE FAU 1566 (95th Street) PROPOSED IMPROVEMENTS (CONTRACT NO. 62377)
SECTION 29R-N-1 STRUCTURE NO. DRILLED BY KL&ES
COUNTY Cook LOCATION 104th Avenue/Flavin Road and 95th Street (Job # D-91-026-02)

Boring No. NB-1
Station 212+00
Offset 12.5' R
Surface El. +701.97'- M.S.L.

DEPTH (ft)	D E P T H	B L O W S	L O W S	Q U T S F	W %	Surf. Wet. El. Groundwater Elev. When Drilling at Completion After			
						D P T H	B L O W S	Q U T S F	W %
1.0									
2.0	1	2	3	3.50	20.9				
3.0									
4.0	2	1	1	1.10	22.8				
5.0	2								
6.0	2	1	1	1.75	20.1				
7.0	2								
8.0	2	1	1	1.75	20.6				
9.0	2	2	2	1.75	20.6				
10.0	2	3							
11.0	2	2	2	1.71	20.8				
12.0	2	5							
13.0	2								
14.0	2	4	4	1.40	22.4				
15.0	4								
16.0	2	2	2	1.10	23.0				
17.0	2	4							
18.0	2	3	3	4.50	18.0				
19.0	3								
20.0	5								
21.0									
22.0	3	4	4	1.10	20.1				
23.0									
24.0	3	6	3	1.30	20.7				
25.0									
26.0	4	4	4	1.20	20.7				
27.0	5	3	6	1.80	13.8				
28.0									
29.0	2	5	2	3.40	17.4				
30.0	8								
31.0	5	7	9	3.00	18.8				
32.0	7								
33.0									
34.0	3	4	4	1.30	22.7				
35.0	6								
36.0									
37.0	4	7	7	1.60	23.0				
38.0									
39.0	4	6	6	1.10	19.7				
40.0	8								
41.0	5								
42.0	5								
43.0	5								

Standard Penetration Test-Blows per foot to drive 2" O.D. Split Spoon Sampler 12" with 140lb hammer falling 30"
(QUB)=Bulge S=Shear P=Penetration Test Stations, Depths, Offsets, and Elevations are in Feet
Offset is from Centerline of Existing Road
SEECO Job No. 7891G-5

ILLINOIS DEPARTMENT OF TRANSPORTATION
STRUCTURE BORING LOG
Page 2 of 2
Date: 6/11/05

ROUTE FAU 1566 (95th Street) PROPOSED IMPROVEMENTS (CONTRACT NO. 62377)
SECTION 29R-N-1 STRUCTURE NO. DRILLED BY KL&ES
COUNTY Cook LOCATION 104th Avenue/Flavin Road and 95th Street (Job # D-91-026-02)

Boring No. NB-1
Station 212+00
Offset 12.5' R
Surface El. +701.97'- M.S.L.

DEPTH (ft)	D E P T H	B L O W S	L O W S	Q U T S F	W %	Surf. Wet. El. Groundwater Elev. When Drilling at Completion After			
						D P T H	B L O W S	Q U T S F	W %
43.0	8	3	3	2.30	17.6				
44.0	2	1	1	1.10	19.7				
45.0	2	2	2	0.60	62.3				
46.0	4	4	4	1.20	19.1				
47.0	7	7	7	1.60	13.8				
48.0	4	4	4	1.20	17.5				
49.0	4	4	4	1.10	17.5				
50.0	6	6	6	1.40	17.8				
51.0	6	6	6	2.20	17.6				
52.0	7	9	9	2.60	17.6				
53.0									
54.0	8	10	10	5.80	16.6				
55.0	13								
56.0	6	6	6	3.50	19.3				
57.0	8	8	8	4.70	19.3				
58.0	9	9	9	2.50	17.7				
59.0	9	9	9	3.20	17.7				
60.0	14	14	14	3.20	10.4				
61.0	12								
62.0	16	16	16	3.20	10.4				
63.0	24								

Standard Penetration Test-Blows per foot to drive 2" O.D. Split Spoon Sampler 12" with 140lb hammer falling 30"
(QUB)=Bulge S=Shear P=Penetration Test Stations, Depths, Offsets, and Elevations are in Feet
Offset is from Centerline of Existing Road
SEECO Job No. 7891G-5

ILLINOIS DEPARTMENT OF TRANSPORTATION
STRUCTURE BORING LOG
Page 1 of 2
Date: 6/11/05

ROUTE FAU 1566 (95th Street) PROPOSED IMPROVEMENTS (CONTRACT NO. 62377)
SECTION 29R-N-1 STRUCTURE NO. DRILLED BY KL&ES
COUNTY Cook LOCATION 104th Avenue/Flavin Road and 95th Street (Job # D-91-026-02)

Boring No. NB-2
Station 212+85
Offset 12.5' R
Surface El. +702.56'- M.S.L.

DEPTH (ft)	D E P T H	B L O W S	L O W S	Q U T S F	W %	Surf. Wet. El. Groundwater Elev. When Drilling at Completion After			
						D P T H	B L O W S	Q U T S F	W %
1.0									
2.0	3	3	3	3.35	18.0				
3.0									
4.0	3	2	2	2.71	21.6				
5.0	2								
6.0	2	3	3	3.40	17.9				
7.0	3								
8.0	3	3	3	1.10	18.7				
9.0	3	4	4	1.10	18.7				
10.0	4	4	4	1.10	18.7				
11.0	2	2	2	3.20	21.3				
12.0	2	2	2	3.20	21.3				
13.0	2	2	2	3.20	21.3				
14.0	2	2	2	1.10	18.7				
15.0	4								
16.0	2	2	2	1.10	18.7				
17.0	2	2	2	1.60	18.9				
18.0	3	3	3	1.60	18.9				
19.0	4	4	4	3.50	16.6				
20.0	6	6	6	3.50	16.6				
21.0									
22.0	2	2	2	0.30	55.3				
23.0	2	2	2	0.70	18.1				
24.0	3	3	3	0.70	18.1				
25.0	4	4	4	1.60	19.9				
26.0	1	1	1	0.40	62.3				
27.0	1	1	1	0.40	62.3				
28.0	3	3	3	1.60	19.9				
29.0	3	3	3	1.00	19.9				
30.0	5	5	5	1.00	19.9				
31.0	3	3	3	0.70	18.1				
32.0	3	3	3	0.70	18.1				
33.0	4	4	4	1.60	20.6				
34.0	4	4	4	1.60	20.6				
35.0	7	7	7	1.60	20.6				
36.0	1	1	1	1.00	19.9				
37.0	1	1	1	0.40	62.3				
38.0	1	1	1	0.40	62.3				
39.0	3	3	3	1.60	19.9				
40.0	1	1	1	0.25	53.2				
41.0	1	1	1	0.25	53.2				
42.0	2	2	2	0.30	55.3				
43.0	2	2	2	0.70	18.1				

Standard Penetration Test-Blows per foot to drive 2" O.D. Split Spoon Sampler 12" with 140lb hammer falling 30"
(QUB)=Bulge S=Shear P=Penetration Test Stations, Depths, Offsets, and Elevations are in Feet
Offset is from Centerline of Existing Road
SEECO Job No. 7891G-5

ILLINOIS DEPARTMENT OF TRANSPORTATION
STRUCTURE BORING LOG
Page 2 of 2
Date: 6/11/05

ROUTE FAU 1566 (95th Street) PROPOSED IMPROVEMENTS (CONTRACT NO. 62377)
SECTION 29R-N-1 STRUCTURE NO. DRILLED BY KL&ES
COUNTY Cook LOCATION 104th Avenue/Flavin Road and 95th Street (Job # D-91-026-02)

Boring No. NB-2
Station 212+85
Offset 12.5' R
Surface El. +702.56'- M.S.L.

DEPTH (ft)	D E P T H	B L O W S	L O W S	Q U T S F	W %	Surf. Wet. El. Groundwater Elev. When Drilling at Completion After			
						D P T H	B L O W S	Q U T S F	W %
43.0	6	6	6	1.20	21.9				
44.0	2	2	2	0.75	23.3				
45.0	4	4	4	1.00	20.7				
46.0	4	4	4	1.00	20.7				
47.0	4	4	4	1.60	17.4				
48.0	7	7	7	2.90	16.9				
49.0	7	7	7	2.90	16.9				
50.0	8	8	8	3.20	16.9				
51.0	6	6	6	3.10	17.4				
52.0	7	7	7	3.10	17.4				
53.0	9	9	9	3.10	17.4				
54.0	7	7	7	3.70	11.3				
55.0	10	10	10	3.70	11.3				
56.0	7	7	7	3.20	13.8				
57.0	9	9	9	3.20	13.8				
58.0	11	11	11	3.20	13.8				
59.0	6	6	6	3.20	14.3				
60.0	7	7	7	3.20	14.3				
61.0	11	11	11	5.00	18.3				
62.0	7	7	7	3.25	14.6				
63.0	15	15	15	3.25	14.6				
64.0	24	24	24	3.25	14.6				

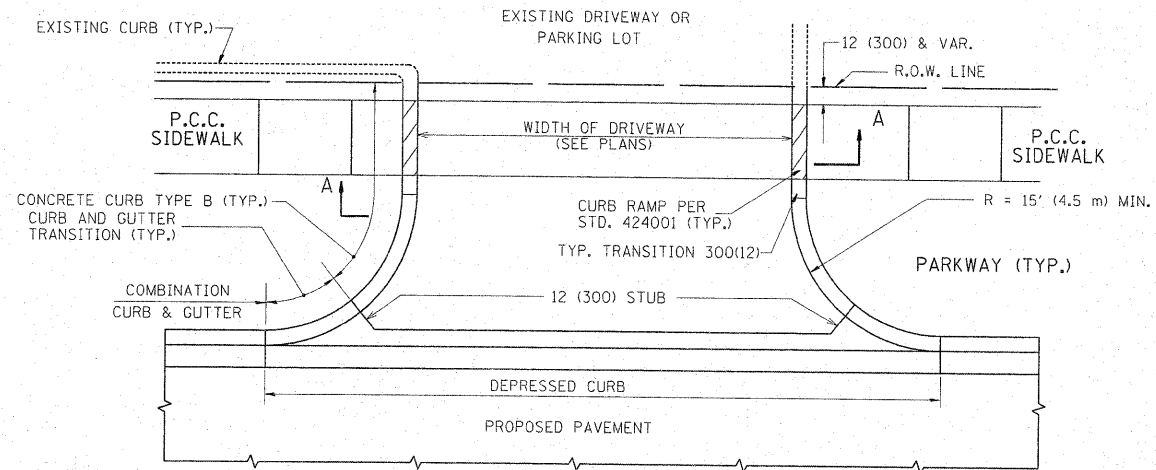
Standard Penetration Test-Blows per foot to drive 2" O.D. Split Spoon Sampler 12" with 140lb hammer falling 30"
(QUB)=Bulge S=Shear P=Penetration Test Stations, Depths, Offsets, and Elevations are in Feet
Offset is from Centerline of Existing Road
SEECO Job No. 7891G-5

ILLINOIS DEPARTMENT OF TRANSPORTATION
STRUCTURE BORING LOG
Page 1 of 2
Date: 6/20/05

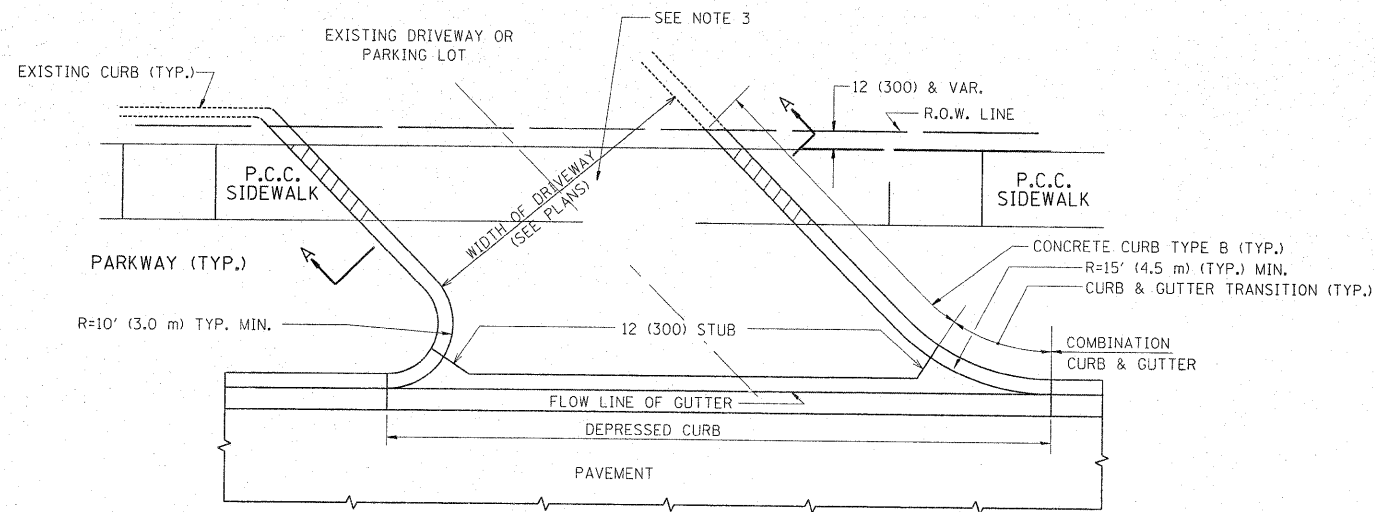
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SECTION 29R-N-1 STRUCTURE NO. DRILLED BY PD&T
COUNTY Cook LOCATION 104th Avenue/Flavin Road and 95th Street (Job # D-91-026-02)

Boring No. NB-3
Station 213+65
Offset 12.5' R
Surface El. +703.71'- M.S.L.

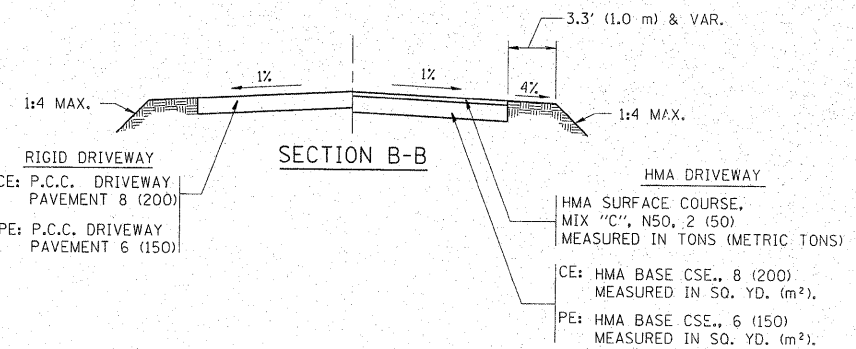
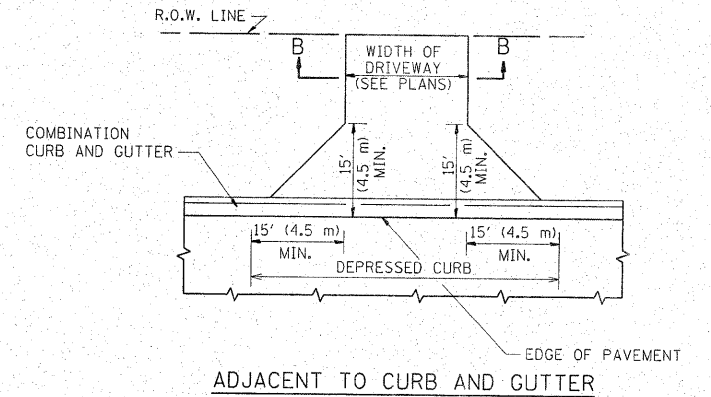
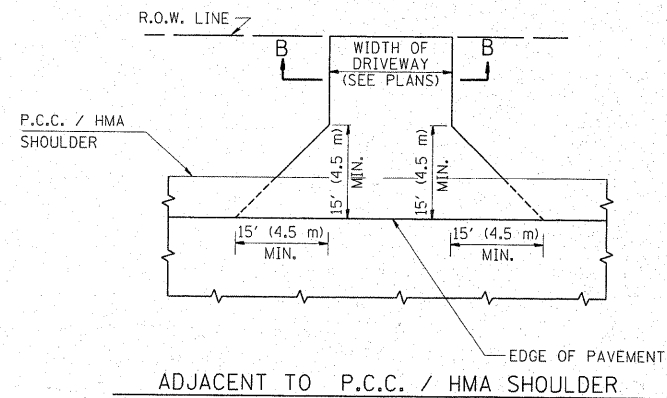
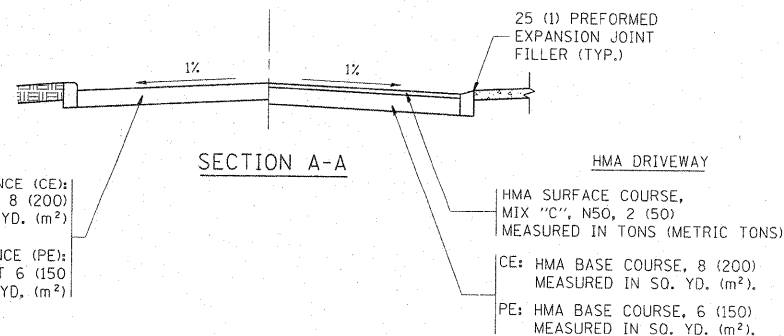
DEPTH (ft)	D E P T H	B L O W S	L O W S	Q U T S F	W %	Surf. Wet. El. Groundwater Elev. When Drilling at Completion After			
						D P T H	B L O W S	Q U T S F	W %
1.0									
2.0	4	4	4	3.70	21.6				
3.0	5	5	5	3.70	21.6				
4.0	3	3	3	1.30	16.8				
5.0	7	7	7	1.30	16.8				
6.0	3	3	3	1.90	21.4				
7.0	4	4	4	1.90	21.4				
8.0	5	5	5	3.30	22.2				
9.0	1	1	1	3.30	22.2				
10.0	3	3	3	5.50	20.4				
11.0	2	2	2	5.50	20.4				
12.0	3	3	3	5.50	20.4				
13.0	4	4	4	5.50	20.4				
14.0	3	3	3	0.70	21.7				
15.0	4	4	4	1.30	27.9				
16.0	2	2	2	0.70	21.7				
17.0	3	3	3	0.70	21.7				
18.0	4	4	4	0.70	21.7				
19.0	2	2	2	0.40	22.4				
20.0	3	3	3	0.40	22.4				
21.0									
22.0	1	1	1	0.23	20.7				
23.0	2	2	2	0.25	20.7				
24.0	1	1	1	0.25	20.7				
25.0	2	2	2	0.25	20.7				
26.0	1	1	1	0.25	20.7				
27.0	3	3	3	0.30	30.6				



WITH CONCRETE CURB, TYPE B



WITH CONCRETE CURB, TYPE B



RURAL FIELD ENTRANCE (FE)
HMA SURFACE COURSE,
MIX "C", N50, 2 (50)
MEASURED IN TONS (METRIC TONS)
AGGREGATE BASE CSE., TYPE B, 8 (200)
MEASURED IN SQ. YD. (m²).

GENERAL NOTES:

DRIVEWAY SLOPES, LOCATIONS, & GEOMETRIC LAYOUT SHALL BE IN ACCORDANCE WITH THE LATEST EDITION OF THE "HANDBOOK FOR POLICY ON PERMITS FOR ACCESS DRIVEWAYS TO STATE HIGHWAYS". FOR FURTHER LAYOUT REQUIREMENTS, REFER TO ILLUSTRATIONS IN THE PERMIT HANDBOOK. DRIVEWAYS SHALL BE REPLACED IN KIND, UNLESS OTHERWISE NOTED ON THE PLANS.

COMMERCIAL DRIVEWAYS SHALL BE CONSTRUCTED WITH CONCRETE CURB, TYPE B RETURNS EXCEPT WHEN THE SIDEWALK EDGE IS 4 FEET (1.2 METERS) OR LESS FROM THE BACK OF CURB, CONSTRUCT A FLARE DRIVEWAY WITHOUT CURB.

THE RESIDENT ENGINEER SHALL CONTACT THE TRAFFIC PERMIT OFFICE AT 847/ 705-4131 FOR ANY QUESTIONS ON DRIVEWAYS SHOWN IN THE PLANS; SPECIFICALLY IN REFERENCE TO ADDITIONAL AND/OR RELOCATION/REMOVAL OF A DRIVEWAY.

COMBINATION CONCRETE CURB & GUTTER SHALL BE MEASURED STRAIGHT ACROSS THE DRIVEWAY. NO ADDITIONAL COMPENSATION WILL BE ALLOWED FOR THE CURB & GUTTER TRANSITION.

1 (25) PREFORMED EXPANSION JOINT FILLER WILL NOT BE PAID SEPARATELY, BUT SHALL BE CONSIDERED INCLUDED IN THE COST OF THE P.C.C. DRIVEWAY PAVEMENT OR P.C.C. SIDEWALK.

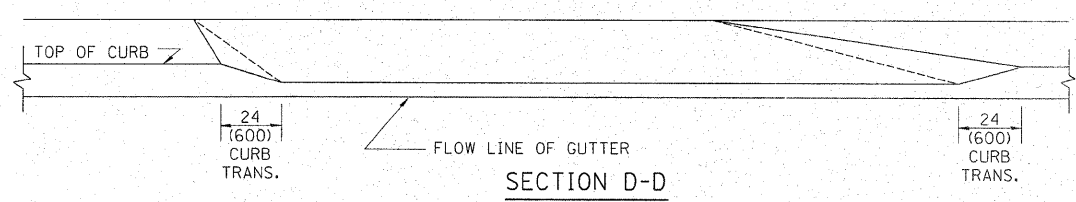
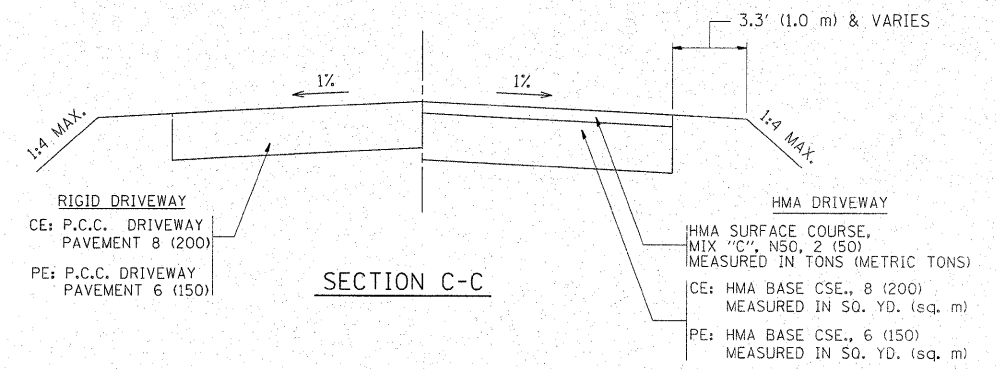
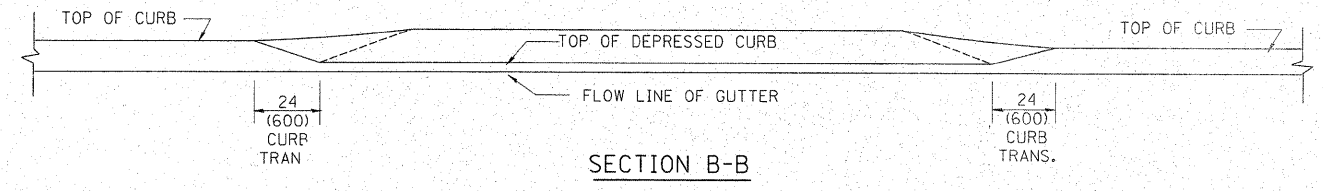
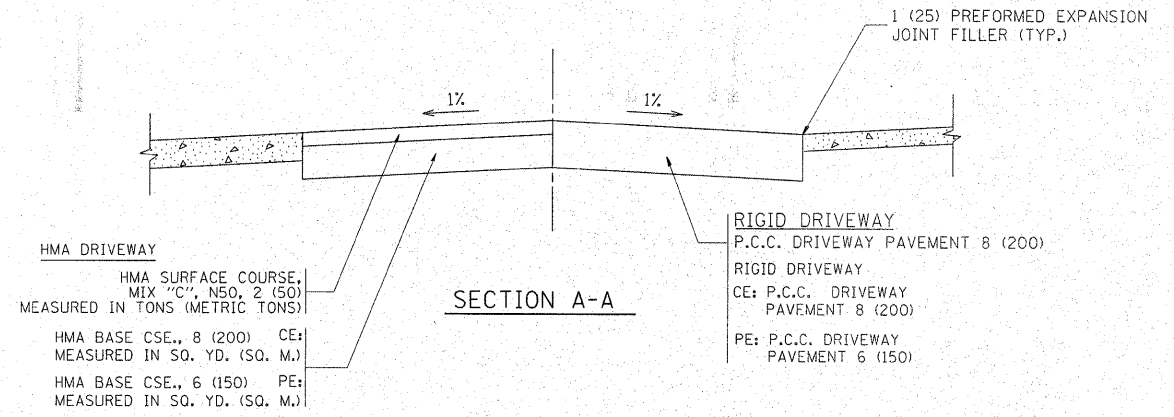
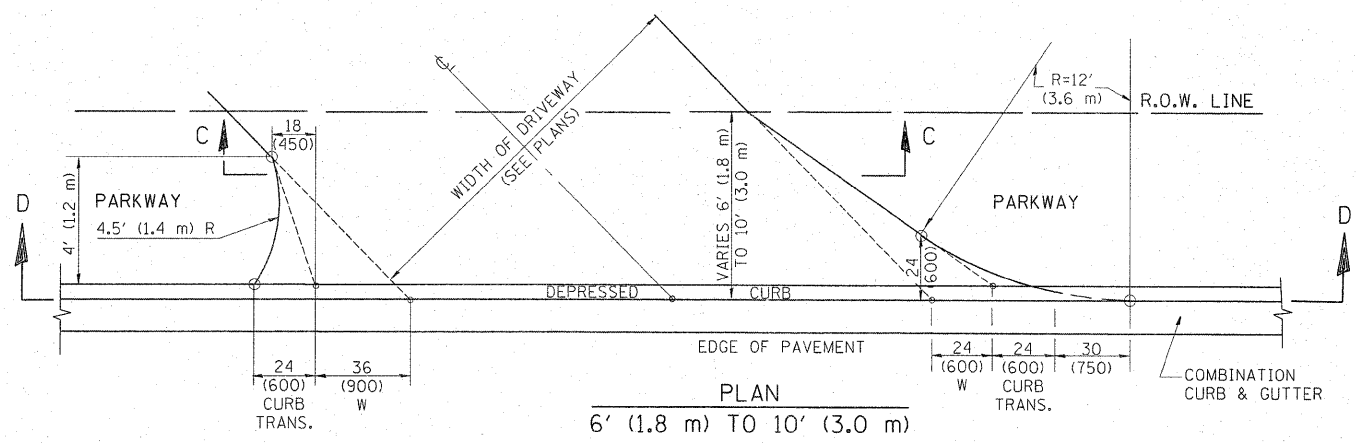
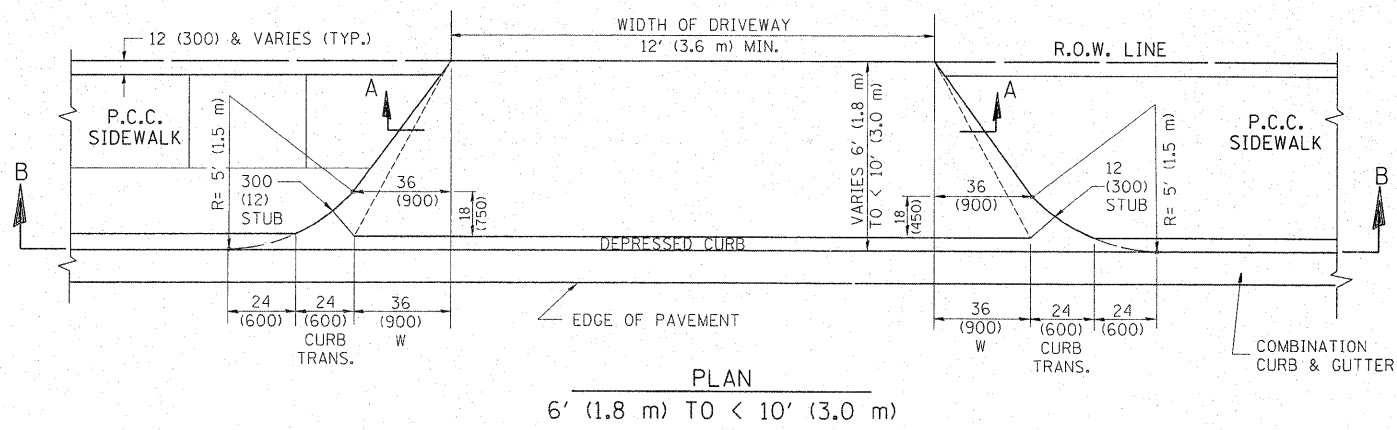
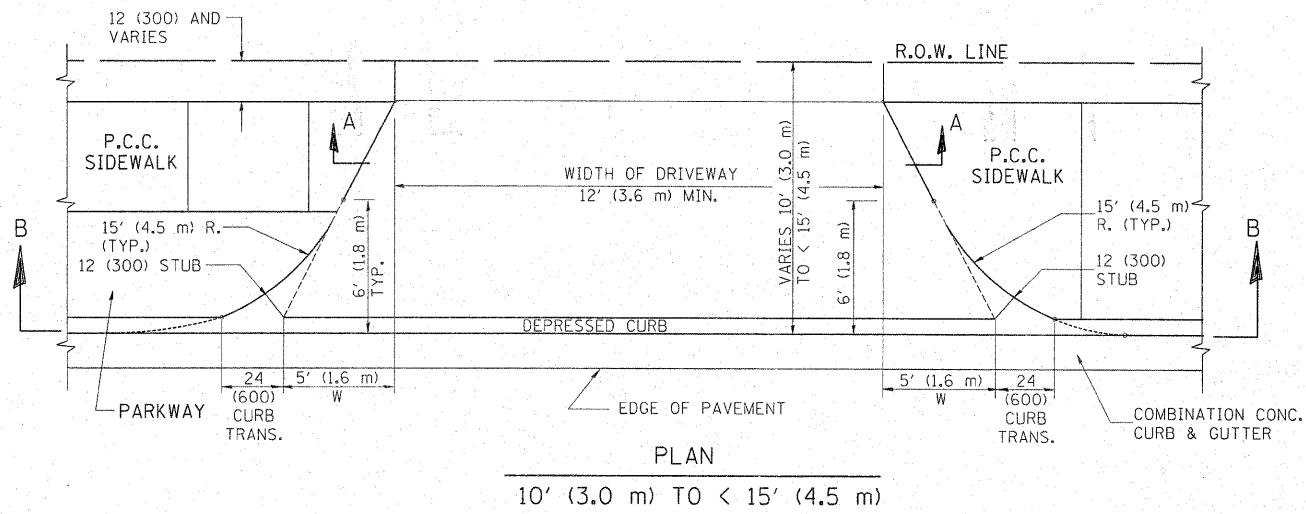
WHEN THE P.C.C. SIDEWALK EXTENDS THROUGH THE DRIVEWAY, THE THICKNESS OF THE SIDEWALK IN THE DRIVEWAY AREA SHALL BE THE SAME AS THE DRIVEWAY THICKNESS. SIDEWALK WILL BE PAID FOR AS P.C.C. SIDEWALK OF THE THICKNESS SPECIFIED. SIDEWALK CROSS SLOPE THRU DRIVEWAY AREA TO BE A MAXIMUM OF 1:50.

FILE NAME =	USER NAME = steedpa	DESIGNED - R. SHAH	REVISED - M. GOMEZ 04-06-01
c:\pwork\pwork\stedpa\d0159915\01st5	drawn	DRAWN -	REVISED - P. LGFLUER 04-15-03
PLOT SCALE = 5/8, 7/8 1/4 IN.	CHECKED -	CHECKED -	REVISED - R. BORO 01-01-07
PLOT DATE = 2/3/2011	DATE - 11-04-95	DATE -	REVISED - R. BORO 06-11-08

**STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION**

DRIVEWAY DETAILS - DISTANCE BETWEEN R.O.W. AND FACE OF CURB & EDGE OF SHOULDER >= 15' (4.5 m)			
SCALE: NONE	SHEET NO. 1 OF 1 SHEETS	STA.	TO STA.

F.A.U. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
1566	29 R-N-1	COOK	120	74
BD0156-07 (BD-01)			CONTRACT NO. 62377	
FED. ROAD DIST. NO. 1 ILLINOIS FED. AID PROJECT				



GENERAL NOTES

DRIVEWAY SLOPES, LOCATIONS, & GEOMETRIC LAYOUT SHALL BE IN ACCORDANCE WITH THE LATEST EDITION OF THE "HANDBOOK FOR POLICY ON PERMITS FOR ACCESS DRIVEWAYS TO STATE HIGHWAYS". FOR FURTHER LAYOUT REQUIREMENTS, REFER TO ILLUSTRATION 10 IN THE PERMIT HANDBOOK. WHERE SIDEWALKS EXIST, DRIVEWAYS SHALL BE REPLACED WITH RIGID PAVEMENT. WHERE NO SIDEWALKS EXIST, DRIVEWAYS SHALL BE REPLACED IN KIND. SIDEWALK CROSS SLOPE THRU DRIVEWAY AREA TO BE A MAXIMUM OF 1:50.

WHEN THE DISTANCE BETWEEN R.O.W. AND THE BACK OF CURB IS EQUAL TO OR LESS THAN 8' (2.4 m), THE P.C.C. SIDEWALK SHALL EXTEND TO THE BACK OF CURB.

THE RESIDENT ENGINEER SHALL CONTACT THE TRAFFIC PERMIT OFFICE AT 847/ 705-4131 FOR ANY QUESTIONS ON DRIVEWAYS SHOWN IN THE PLANS; SPECIFICALLY IN REFERENCE TO ADDITIONAL AND/OR RELOCATION/REMOVAL OF A DRIVEWAY.

COMBINATION CONCRETE CURB & GUTTER SHALL BE MEASURED STRAIGHT ACROSS THE DRIVEWAY. NO ADDITIONAL COMPENSATION WILL BE ALLOWED FOR THE CURB & GUTTER TRANSITION.

THE 1 (25) PREFORMED EXPANSION JOINT FILLER WILL NOT BE PAID SEPARATELY, BUT SHALL BE CONSIDERED INCLUDED IN THE COST OF THE P.C.C. DRIVEWAY PAVEMENT OR P.C.C. SIDEWALK.

"W" VARIES FROM 36 (900) TO 5' (1.5 m) PROPORTIONAL TO THE LENGTH (L), FROM 6' (1.8 m) TO 10' (3 m).

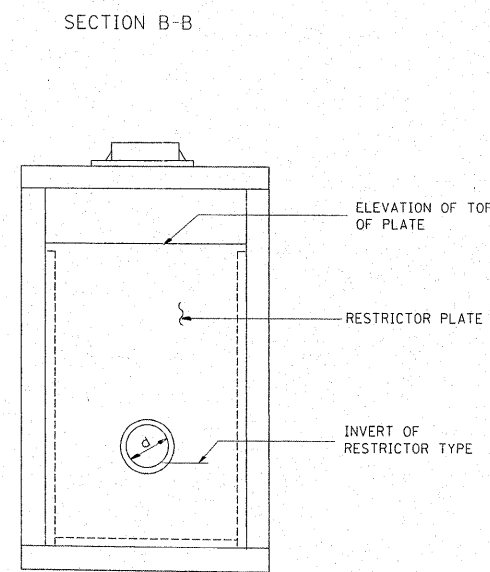
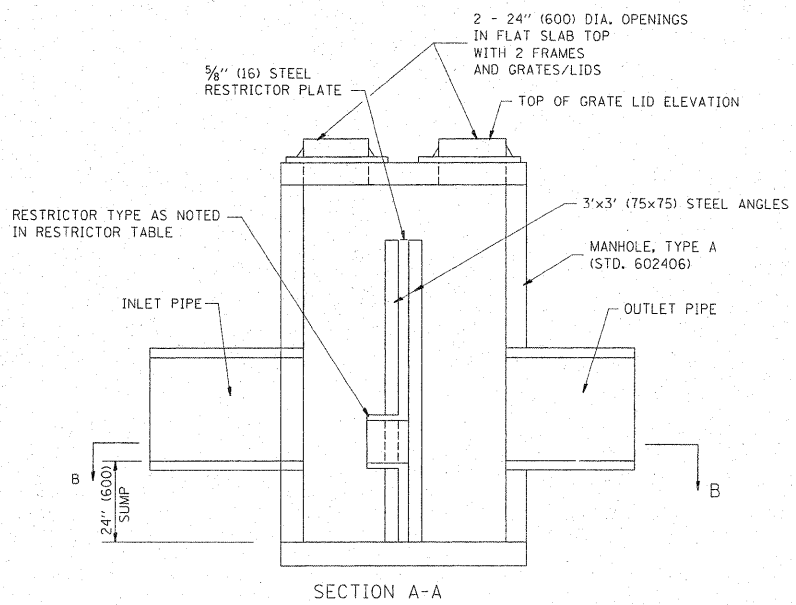
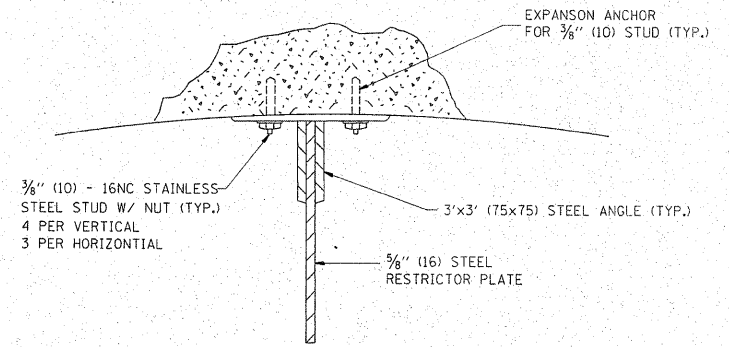
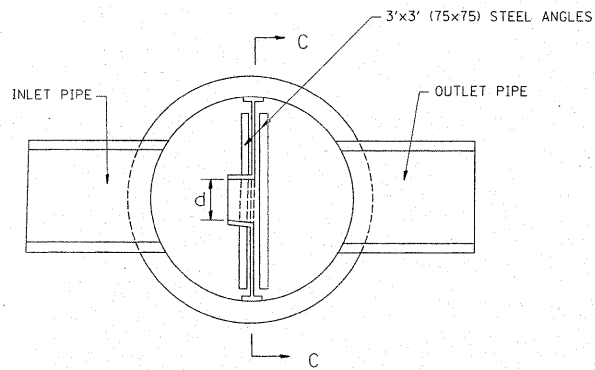
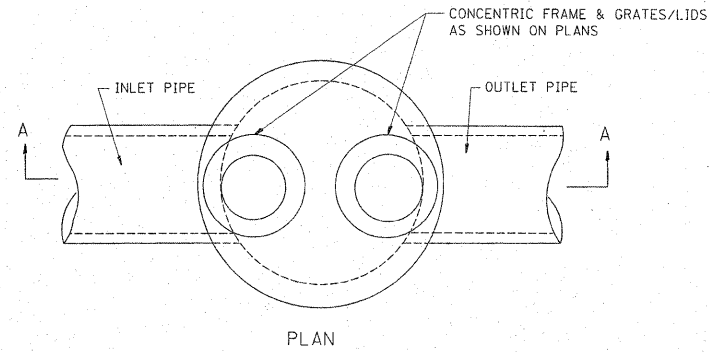
ALL DIMENSIONS ARE IN INCHES (MILLIMETERS) UNLESS OTHERWISE NOTED.

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	PLOT DATE = 2/3/2011	DATE - 11-06-95	REVISED - R. BORO 01-01-07

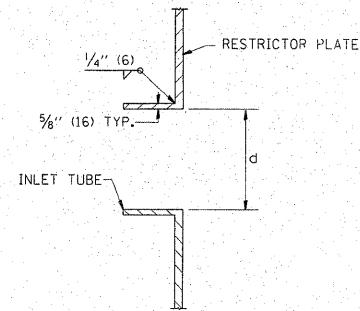
**STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION**

DRIVEWAY DETAILS	
DISTANCE BETWEEN ROW AND FACE OF CURB < 15' (4.5 m)	
SCALE: NONE	SHEET NO. 1 OF 1 SHEETS STA. TO STA.

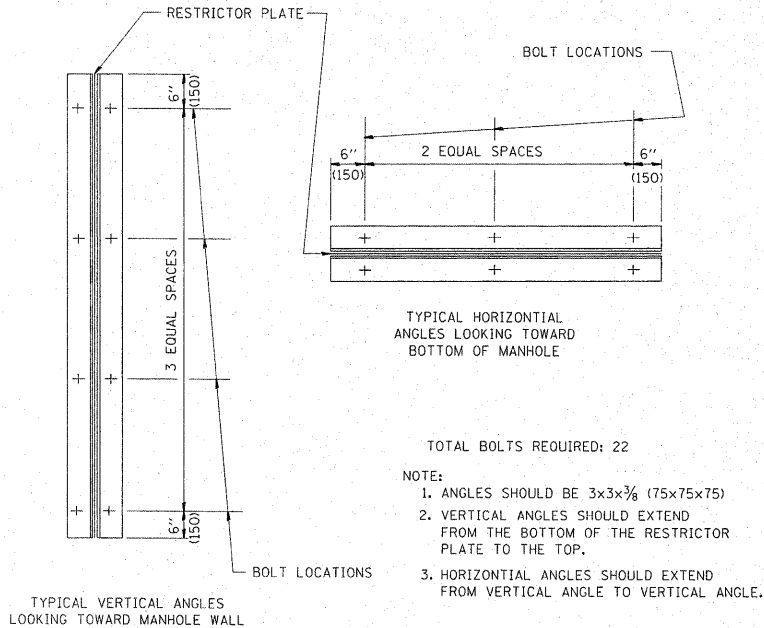
F.A.U. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
1566	29 R-N-1	COOK	120	75
BD400-02 (BD-02)			CONTRACT NO. 62377	
FED. ROAD DIST. NO. 1 ILLINOIS FED. AID PROJECT				



- NOTES:
1. ALL STEEL ANGLES AND PLATES TO BE GALVANIZED AFTER FABRICATION.
 2. ALL RESTRICTOR PLATES, ANGLES AND HARDWARE TO BE INCLUDED IN THE COST OF THE MANHOLE.
 3. BASIS OF PAYMENT: "MANHOLES, TYPE A, 6 FT. (1.8 m)-DIAMETER, TYPE 1 FRAME, CLOSED LID, RESTRICTOR PLATE" EACH



STATION	MANHOLE DIAMETER	FRAME AND GRATE	RESTRICTOR TYPE	INSIDE RESTRICTOR TYPE DIAMETER In. (mm) (d)	INVERT OF RESTRICTOR TYPE	ELEVATION OF TOP OF PLATE OVERFLOW

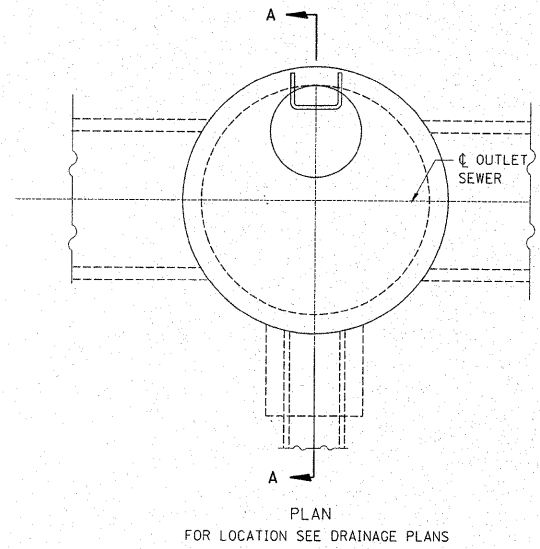


RESTRICTOR TYPE					
1	2	3	4	5	6
RE-ENFRANT TUBE	SHARP EDGED	SQUARE EDGED	RE-ENFRANT TUBE	SQUARE EDGED	ROUNDED
LENGTH: 1/2 TO 1 DIA.		STREAM CLEARS SIDES	LENGTH: 2-1/2 DIA.	LENGTH: 2-1/2 DIA.	
C=.52	C=.61	C=.61	C=.73	C=.82	C=.98

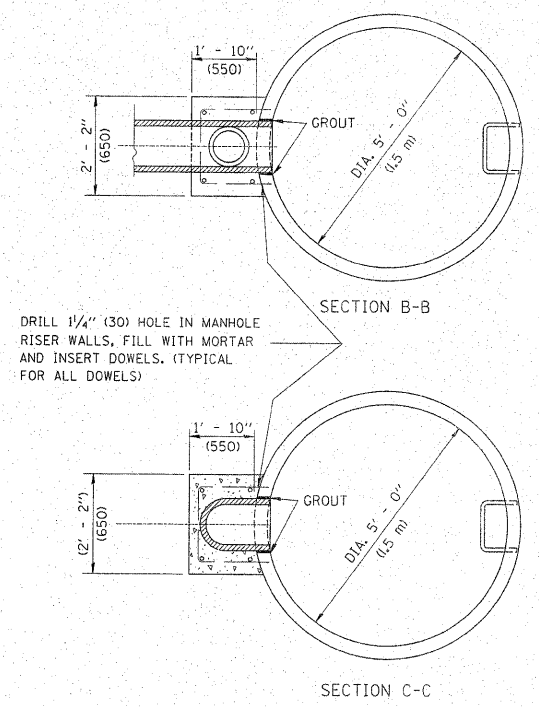
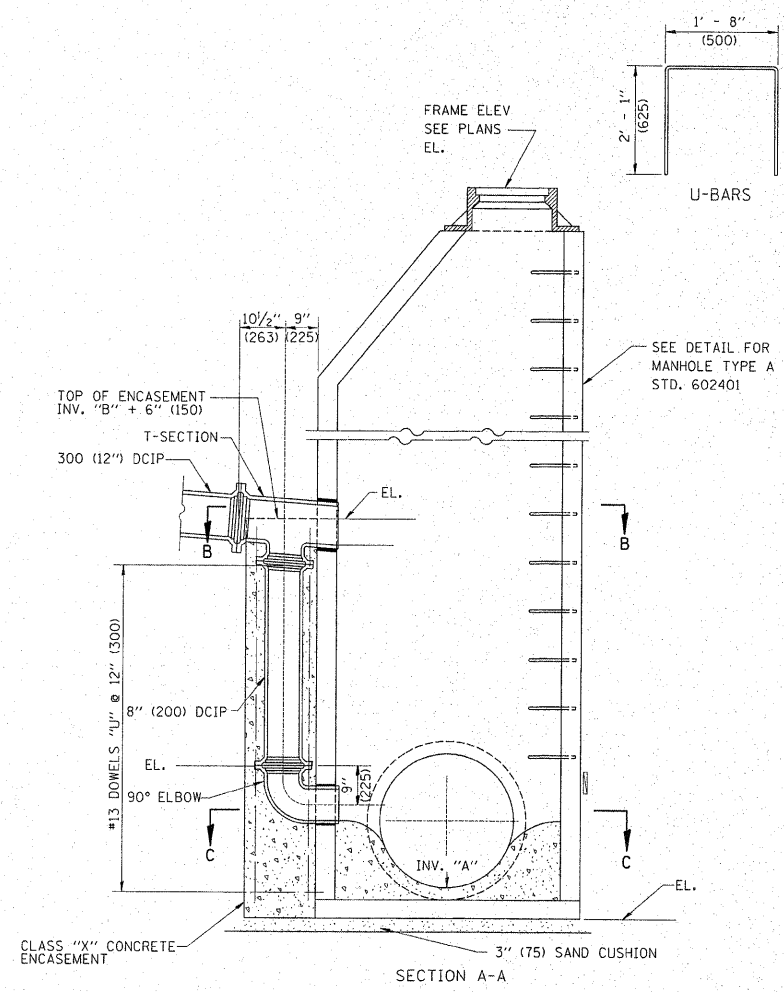
VALUES OF "C" FOR CIRCULAR AND SQUARE ORIFICES

- TOTAL BOLTS REQUIRED: 22
- NOTE:
1. ANGLES SHOULD BE 3x3x3/8 (75x75x75)
 2. VERTICAL ANGLES SHOULD EXTEND FROM THE BOTTOM OF THE RESTRICTOR PLATE TO THE TOP.
 3. HORIZONTAL ANGLES SHOULD EXTEND FROM VERTICAL ANGLE TO VERTICAL ANGLE.

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



ENCASEMENT DETAILS	
DROP M.H. LOCATION STA., OFFSET	
INV. "A"	
INLET PIPE	
INV. "B"	
INV. "C"	
A	
B	
"V" BAR LENGTH	
NO. OF "U" BARS	
REINF. BARS	
CLASS "SI" CONC. CUBIC YARD (CU. YD.)	



- TYPE A1-1 MANHOLE WITH 1 DROP AND DEPTH UP TO 10' (3 m)
 TYPE A1-2 " " " 1 " " " FROM 10' TO 15' (3 m TO 1.5 m)
 TYPE A1-3 " " " 1 " " " FROM 15' TO 20' (1.5 m TO 6 m)
 TYPE A1-4 " " " 1 " " " OVER 20' (6 m)
- TYPE A2-1 MANHOLE WITH 2 DROPS AND DEPTH UP TO 10' (3 m)
 TYPE A2-2 " " " 2 " " " FROM 10' TO 15' (3 m TO 1.5 m)
 TYPE A2-3 " " " 2 " " " FROM 15' TO 20' (1.5 m TO 6 m)
 TYPE A2-4 " " " 2 " " " OVER 20' (6 m)

ALL DIMENSIONS ARE IN INCHES (MILLIMETERS) UNLESS OTHERWISE SHOWN

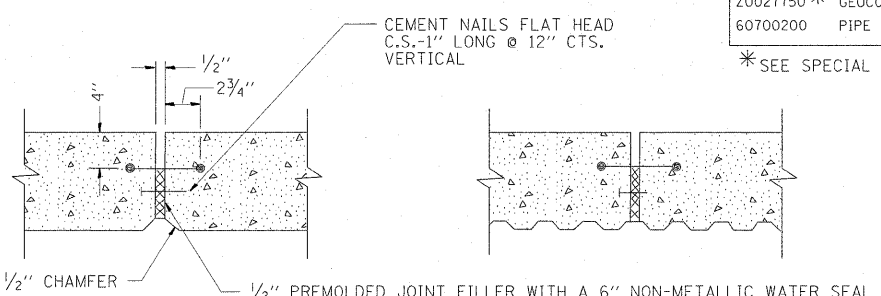
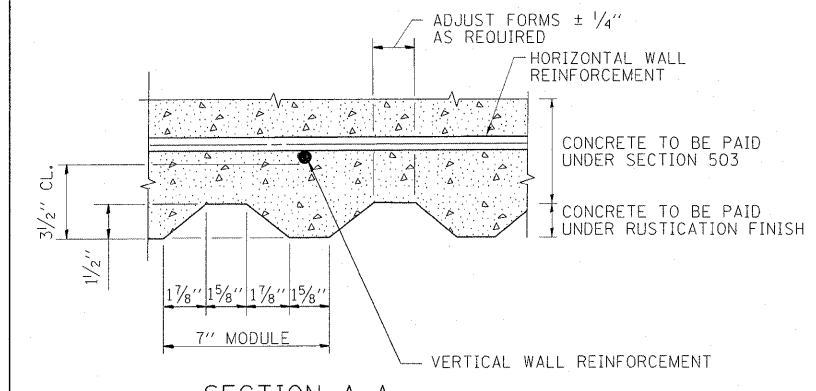
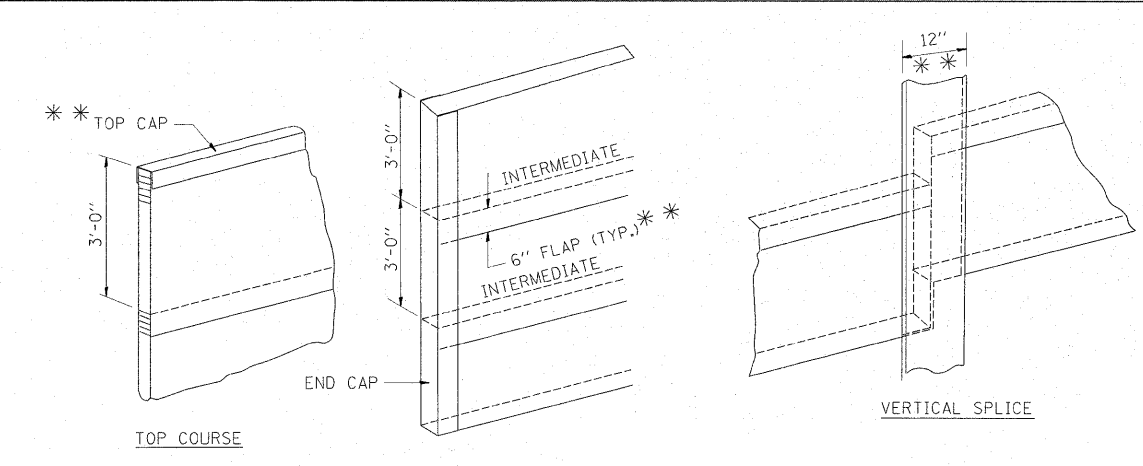
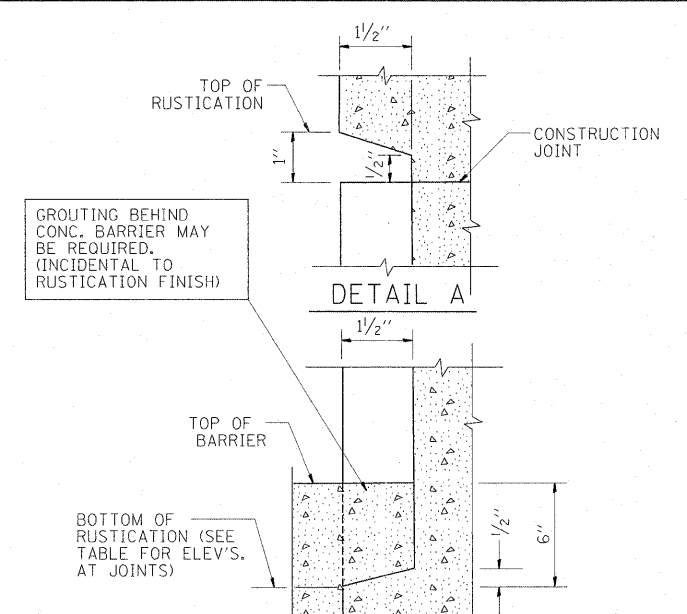
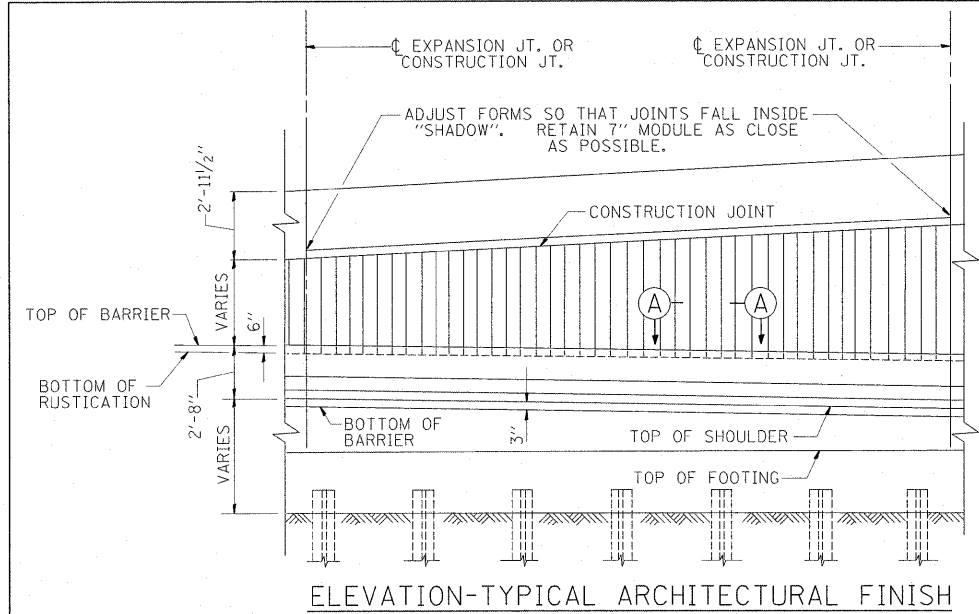
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	PLOT DATE = 2/3/2011	DATE - 10-18-02	REVISED -

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

DROP MANHOLE DETAILS

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

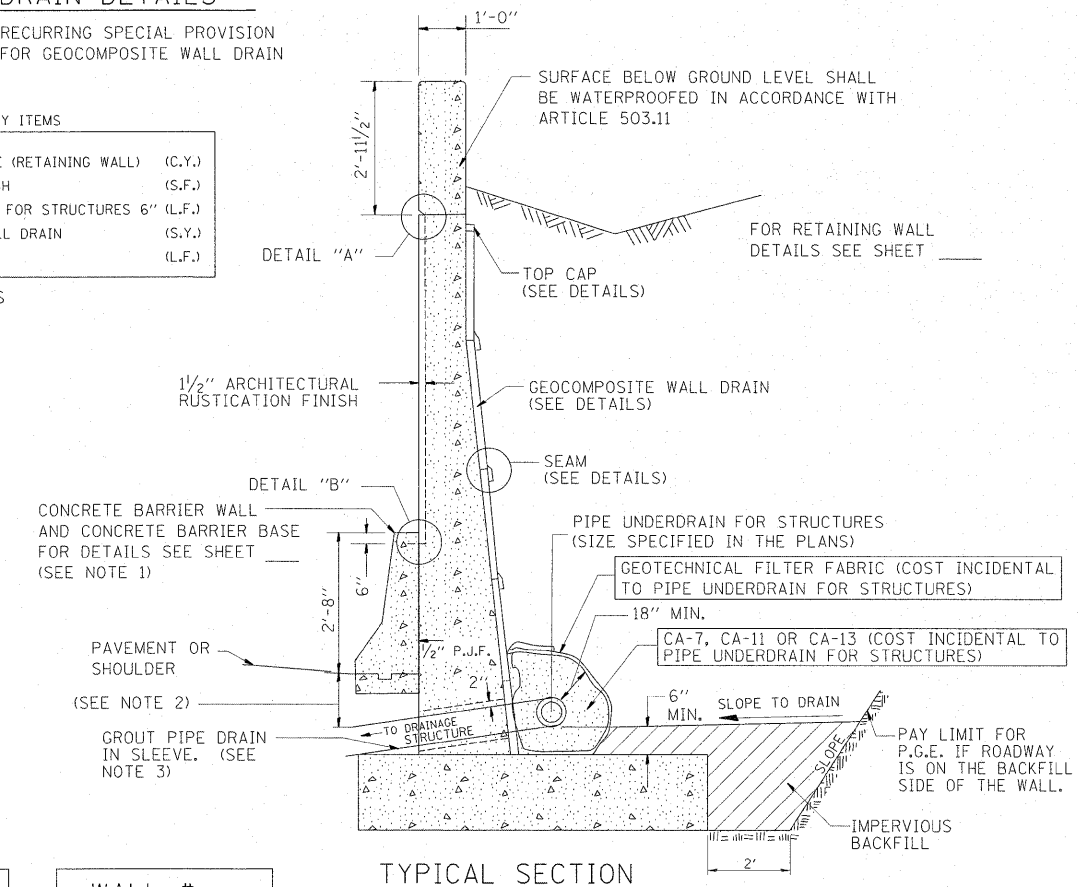
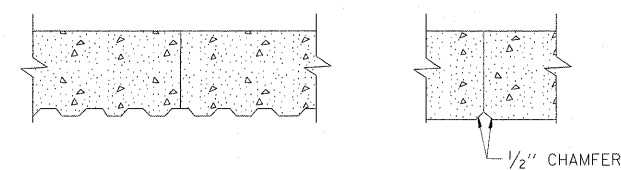
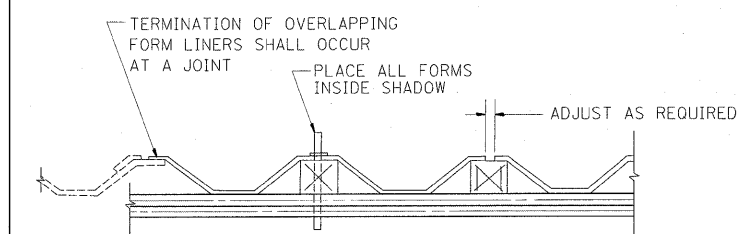
F.A.U. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
1566	29 R-N-1	COOK	120	77
BD600-05 (BD-16)		CONTRACT NO. 62377		
FED. ROAD DIST. NO. 1 ILLINOIS FED. AID PROJECT				



PREFERRED PAY ITEMS

50400850	* CLASS X CONCRETE (RETAINING WALL)	(C.Y.)
50400510	* RUSTICATION FINISH	(S.F.)
60709582	* PIPE UNDERDRAINS FOR STRUCTURES 6"	(L.F.)
Z0027750	* GEOCOMPOSITE WALL DRAIN	(S.Y.)
60700200	* PIPE DRAINS 6"	(L.F.)

* SEE SPECIAL PROVISIONS

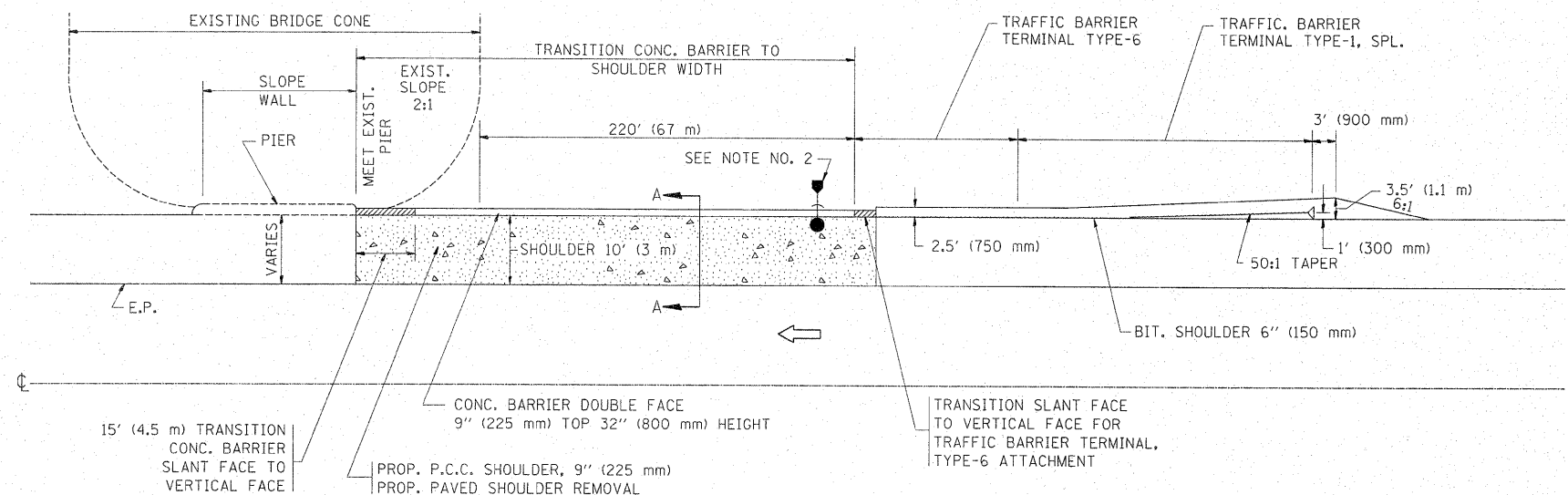


WALL #		WALL #		WALL #		WALL #		WALL #		WALL #		WALL #	
STATION	ELEVATION	STATION	ELEVATION	STATION	ELEVATION	STATION	ELEVATION	STATION	ELEVATION	STATION	ELEVATION	STATION	ELEVATION

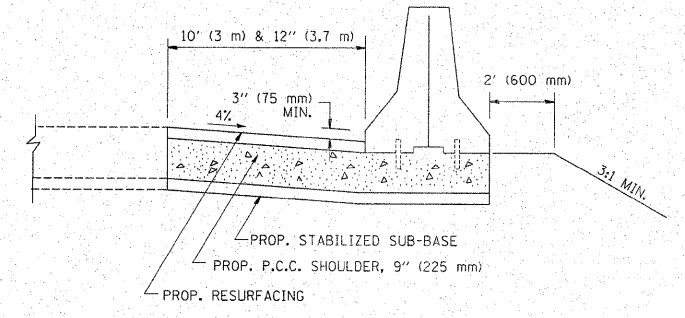
NOTE 1. CONCRETE BARRIER CONSTRUCTION: WHEN THE CONCRETE BARRIER WALL IS TO BE CONSTRUCTED MONOLITHIC WITH THE RETAINING WALL THE DETAILS SHOWN IN THE RETAINING WALL SECTION SHALL GOVERN.

NOTE 2. PIPE DRAIN SLOPE: PRIOR TO THE PLACEMENT OF THE PIPE UNDERDRAIN SLEEVE THE ENGINEER SHALL DETERMINE THE SLOPE REQUIRED FOR THE PIPE UNDERDRAIN TO ENTER BELOW THE DRAINAGE STRUCTURE LID AT OR BELOW THE MINIMUM DISTANCE SHOWN ON THE DETAILS FOR THE STRUCTURE.

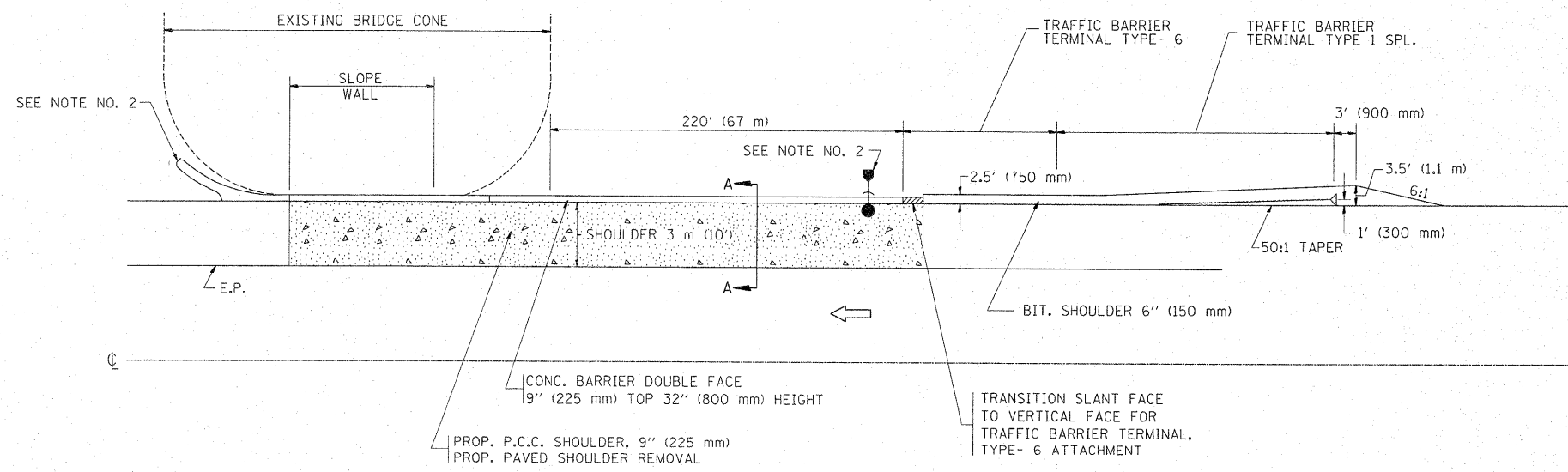
NOTE 3. PIPE DRAIN: THE PIPE DRAIN SHALL TERMINATE AT A DRAINAGE STRUCTURE. THE COST OF THE SLEEVE AND GROUT SHALL BE INCIDENTAL TO PIPE DRAINS.



CONC. BARRIER ADJACENT TO SLOPE WALL WITH PIER (DITCH SECTION)



SECTION A-A



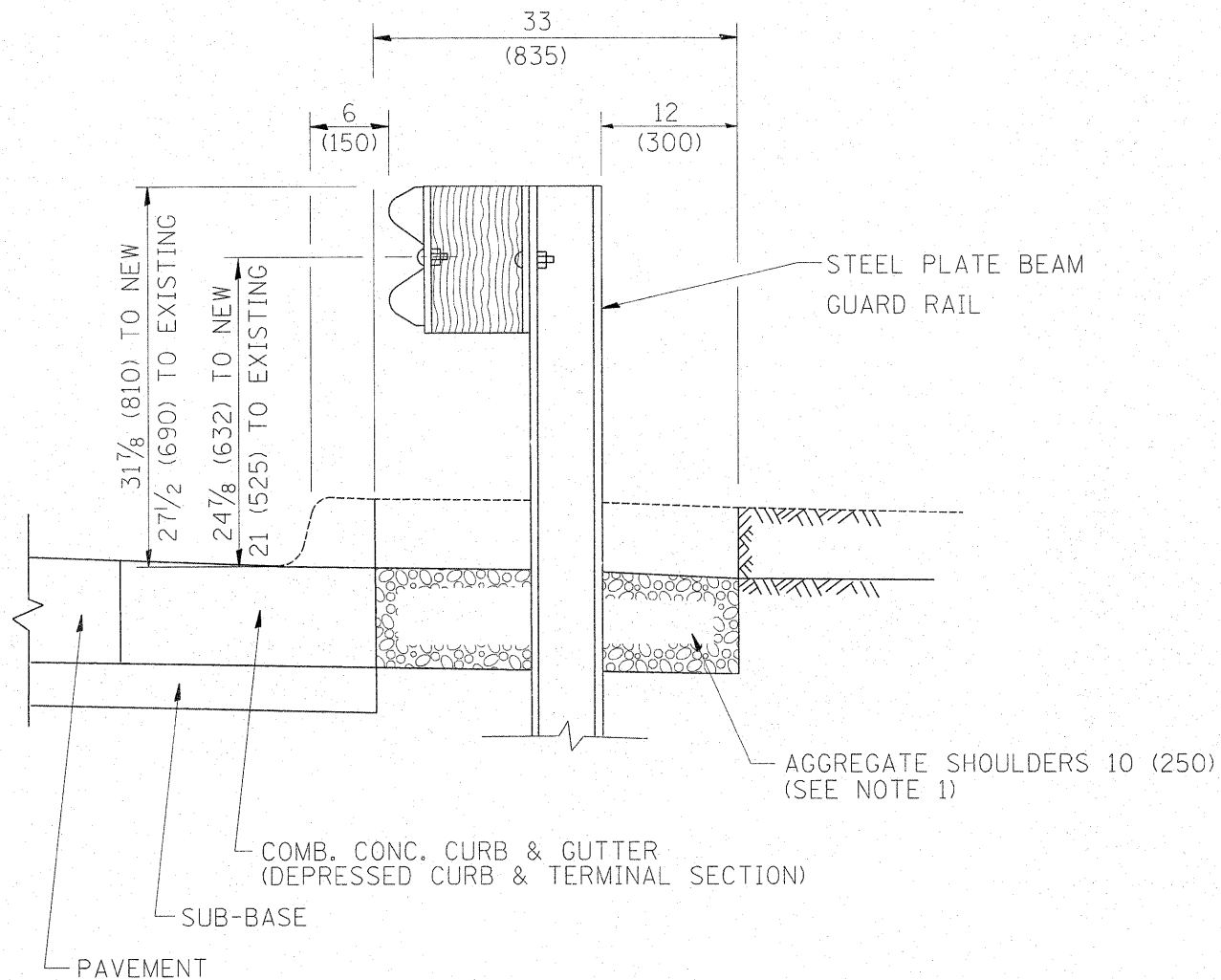
CONC. BARRIER ADJACENT TO SLOPE WALL WITHOUT PIER (DITCH SECTION)

NOTE:

1. SEE STATE STANDARD 630201 FOR STABILIZATION FOR GUARDRAIL.
- *2. THE GUTTER OUTLET AND CATCH BASIN LOCATION IS DEPENDENT ON DIRECTION OF FLOW.
3. USE CONC. BARRIER SINGLE FACE IF CLEARANCE BETWEEN PIER AND SHOULDER IS LESS THAN 27\" (685 mm).
4. SEE STATE STANDARD 637001 FOR CONCRETE BARRIER.

- * CATCH BASIN TYPE C, TYPE 24 FRAME AND GRATE
- * STORM SEWERS, 12\" (300 mm)
- END SECTIONS, 12\" (300 mm)

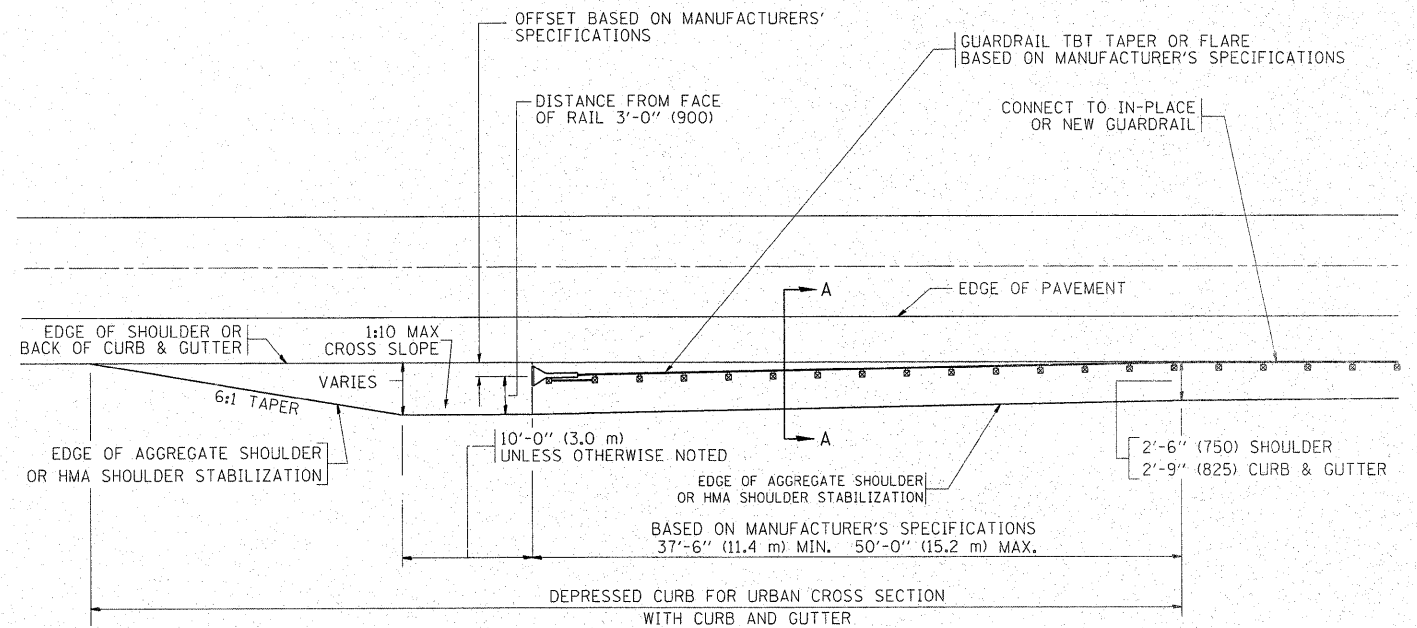
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PLOT SCALE = 50.7684' / IN.	CHECKED -	DATE - 10-18-02	REVISED -		SCALE: NONE	SHEET NO. 1 OF 1 SHEETS	STA. TO STA.	BD600-08 (BD29)		CONTRACT NO. 62377		
PLOT DATE = 2/3/2011	DATE -	REVISED -					FED. ROAD DIST. NO. 1 ILLINOIS		FED. AID PROJECT			



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.

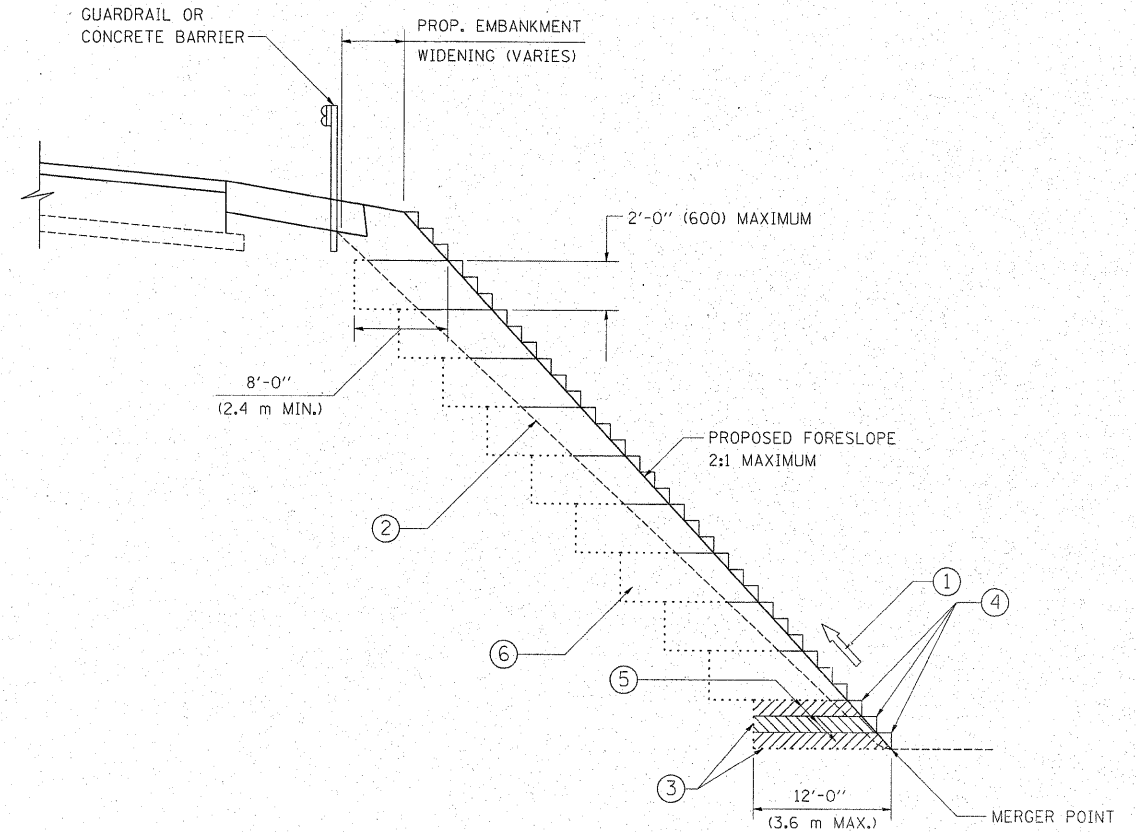
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	PLOT DATE = 2/3/2011	DATE - 09-22-90	REVISED - R. BORO 09-14-2009

**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.I. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
1566	29 R-N-1	COOK	120	80
BD600-10 (BD 34)		CONTRACT NO. 62377		
FED. ROAD DIST. NO. 1 ILLINOIS FED. AID PROJECT				



TYPICAL BENCHING DETAIL
FOR EMBANKMENT

NOTES:

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

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

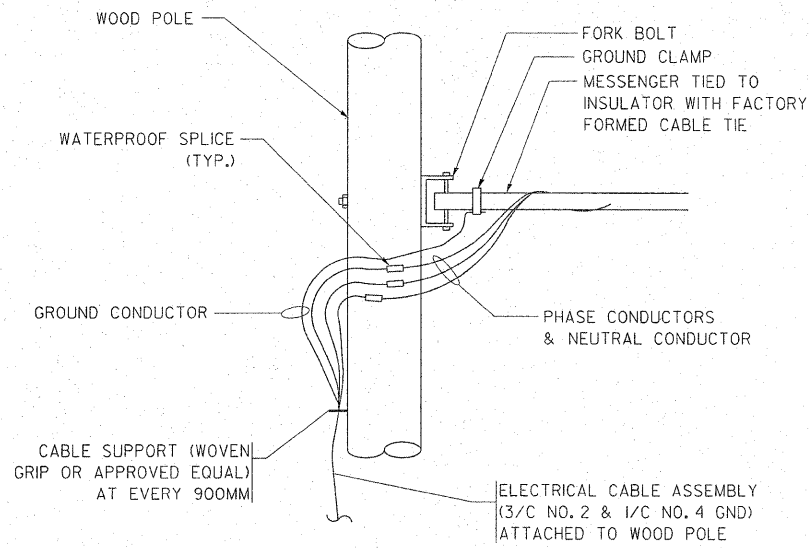
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	PLOT DATE = 2/3/2011	DATE - 06-16-04	REVISED -

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

BENCHING DETAIL
FOR EMBANKMENT WIDENING

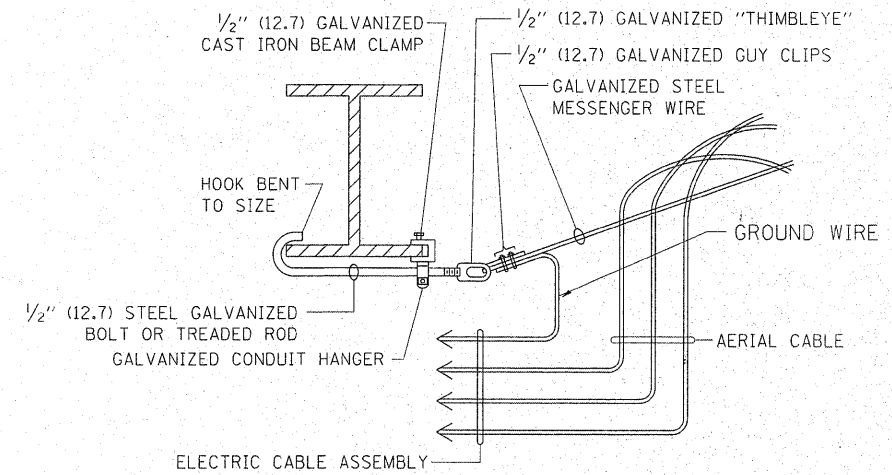
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F.A.U. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
1566	29 R-N-1	COOK	120	81
BD-51			CONTRACT NO. 62377	
FED. ROAD DIST. NO. 1 ILLINOIS FED. AID PROJECT				



AERIAL CABLE CONNECTION DETAIL

N.T.S.

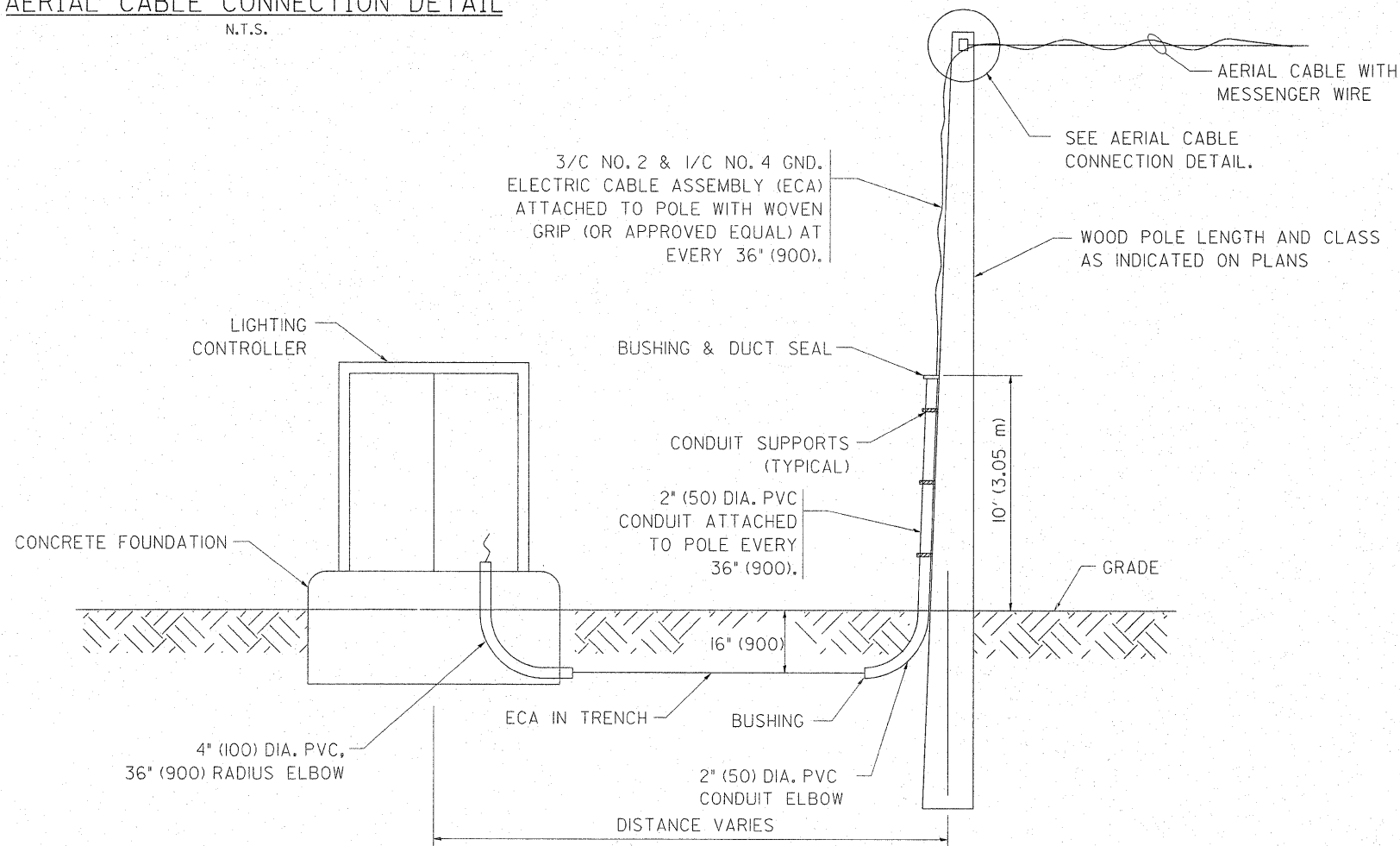


**AERIAL CABLE
ATTACHED TO STRUCTURE**

NOT TO SCALE

NOTES:

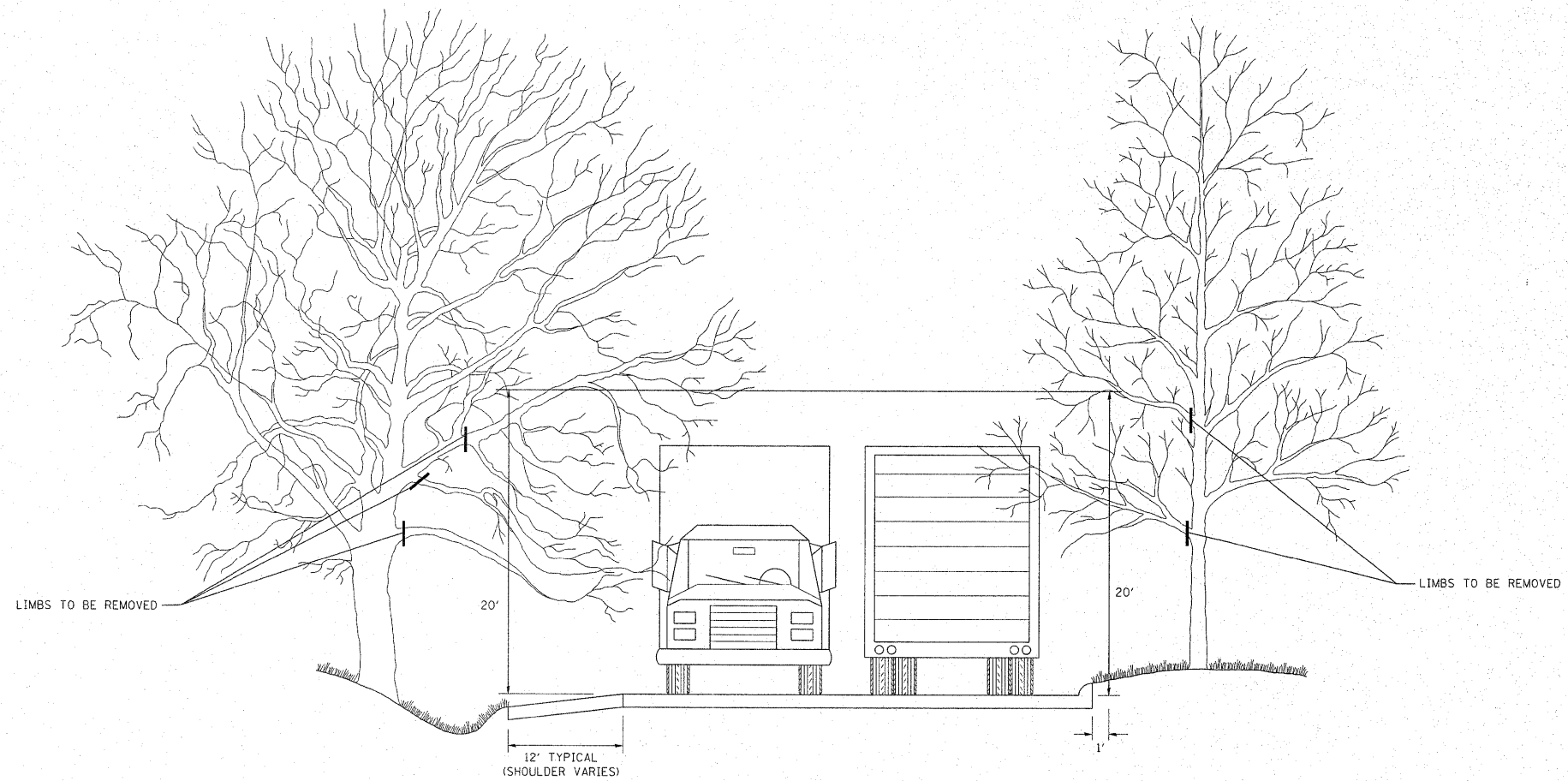
1. ALL DIMENSIONS IN INCHES (MILLIMETERS) UNLESS OTHERWISE INDICATED.
2. SEE PROPOSED LIGHTING PLAN FOR CONDUIT, CABLE AND ROUTING.
3. THE CONTRACTOR SHALL PROVIDE INTERMEDIATE SUPPORTS TO MAINTAIN MINIMUM CLEARANCES. REFER TO AERIAL AERIAL CABLE ATTACHED TO STRUCTURE DETAIL.
4. COST OF SPLICES AND MOUNTING HARDWARE SHALL BE INCLUDED IN THE UNIT PRICE FOR AERIAL CABLE.



**WOOD POLE TO LIGHTING CONTROLLER
WIRING CONNECTION DETAIL**

N.T.S.

FILE NAME =	USER NAME = steepp	DESIGNED -	REVISED - 08-08-03	STATE OF ILLINOIS DEPARTMENT OF TRANSPORTATION	TEMPORARY AERIAL CABLE INSTALLATION			F.A.U. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.	
c:\pw\work\p\dot\steepp\0159915\Dist5	ed.dgn	DRAWN -	REVISED -		SCALE: NONE	SHEET NO. 1 OF 1 SHEETS	STA.	TO STA.	1566	29 R-N-1	COOK	120	82
	PLOT SCALE = 50.7684' / IN.	CHECKED -	REVISED -					BE-801		CONTRACT NO. 62377			
	PLOT DATE = 2/3/2011	DATE -	REVISED -					FED. ROAD DIST. NO. 1 ILLINOIS FED. AID PROJECT					



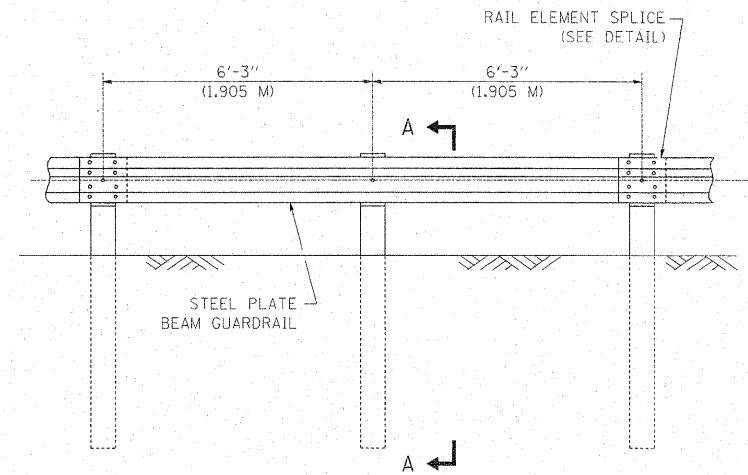
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		DRAWN -	REVISED -
	PLOT SCALE = 50.7684' / IN.	CHECKED -	REVISED -
	PLOT DATE = 2/3/2011	DATE -	REVISED -

**STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION**

**PRUNING FOR SAFETY AND
EQUIPMENT CLEARANCE**

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

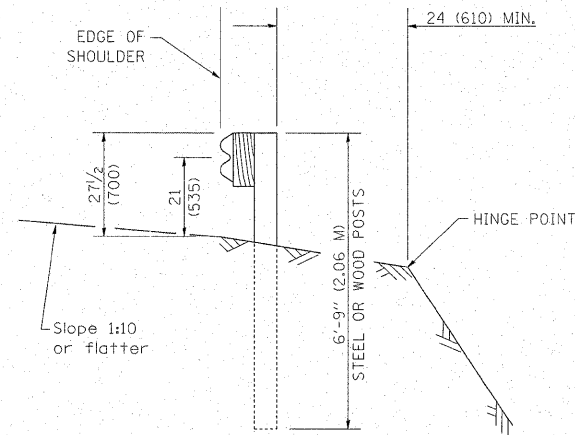
F.A.U. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
1566	29 R-N-1	COOK	120	83
BM-20			CONTRACT NO. 62377	
FED. ROAD DIST. NO. 1 ILLINOIS FED. AID PROJECT				



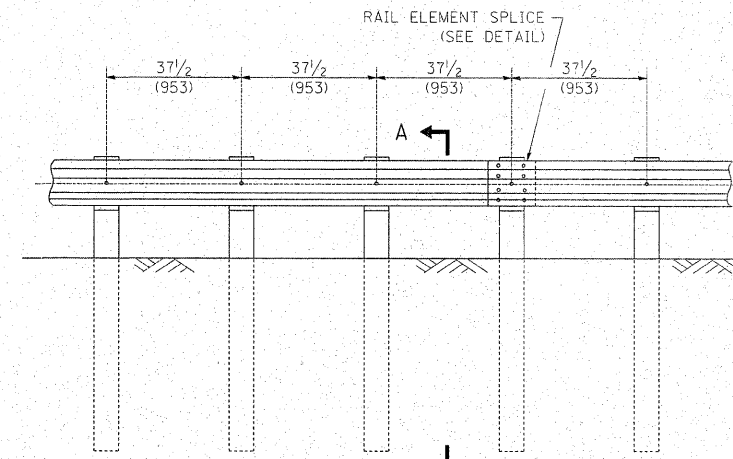
ELEVATION

TYPE A

6'-3" (1.905 M) TYPICAL POST SPACING



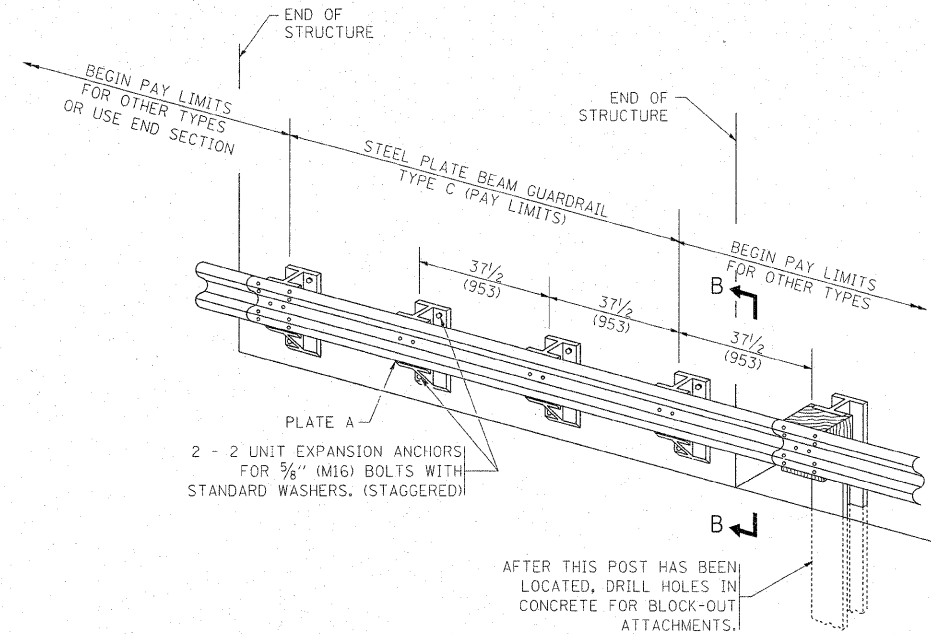
SECTION A-A



ELEVATION

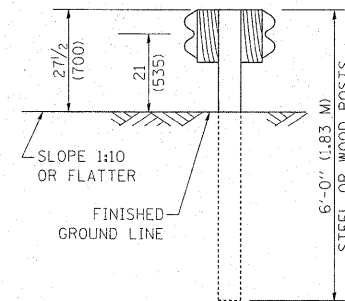
TYPE A

37 1/2 (953) CLOSED POST SPACING

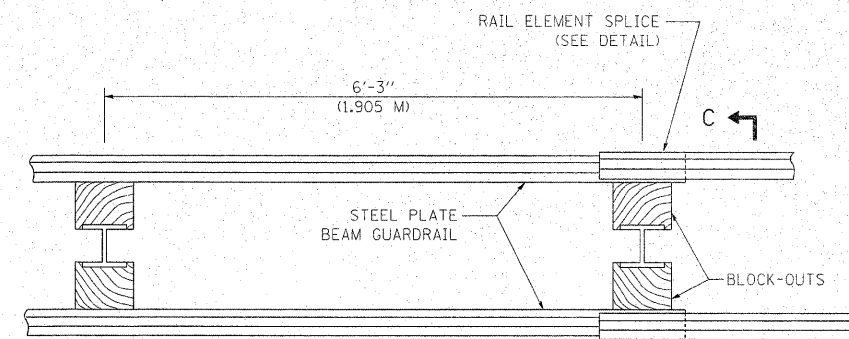


TYPE C

37 1/2 (953) BLOCK-OUT SPACING



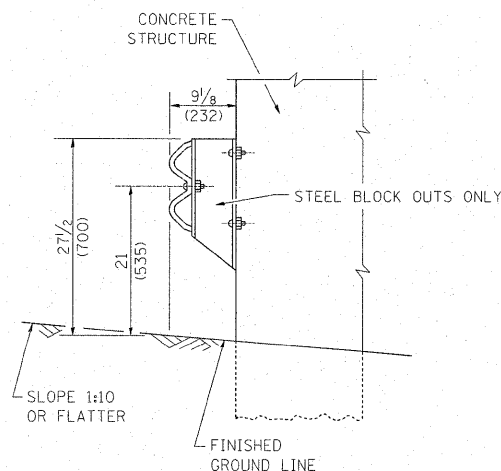
SECTION C-C



PLAN

TYPE D

DOUBLE STEEL PLATE BEAM GUARDRAIL
6'-3" (1.905 M) TYPICAL POST SPACING



SECTION B-B

GENERAL NOTES

ALL SLOPE RATIOS ARE EXPRESSED AS UNITS OF VERTICAL DISPLACEMENT TO UNITS OF HORIZONTAL DISPLACEMENT (V:H).

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

THE EXISTING STEEL POSTS MAY BE DRILLED TO MATCH THE BOLT PATTERN SHOWN HEREIN FOR THE WOOD BLOCK-OUT, OR A NEW STEEL POST SHALL BE PROVIDED.

THIS DETAIL IS APPLICABLE TO THE GUARDRAIL SYSTEM USED PRIOR TO JANUARY 1, 2007. FOR DETAILS ON THE MIDWEST GUARDRAIL SYSTEM, SEE STANDARD 630001.

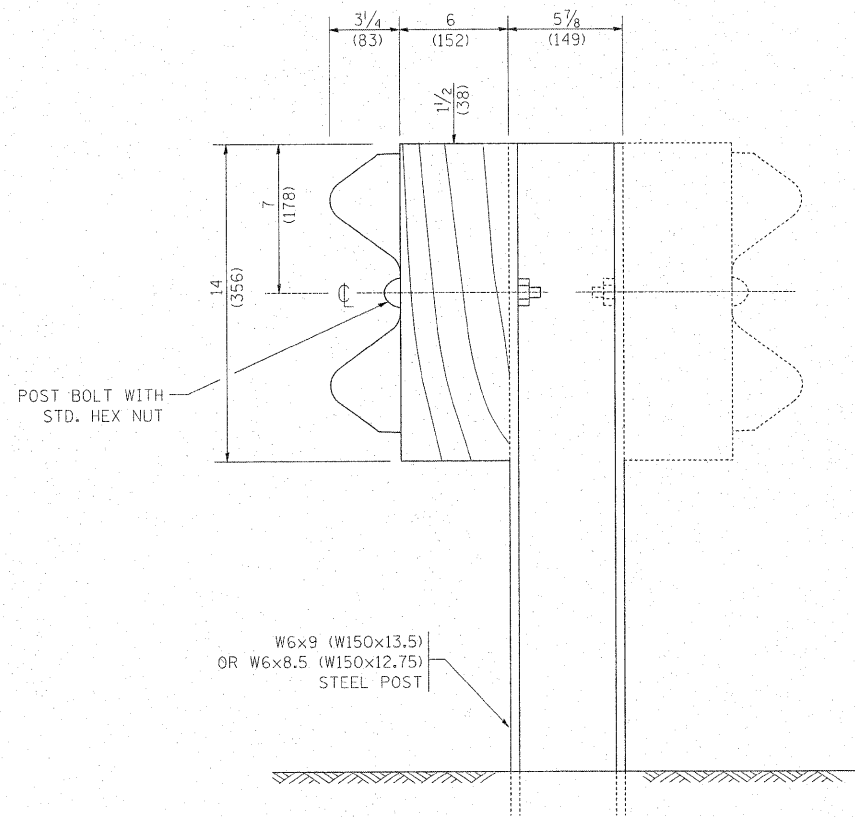
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	PLOT SCALE = 50.7684 "/ IN.	CHECKED -	REVISED -
	PLOT DATE = 2/3/2011	DATE -	REVISED -

**STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION**

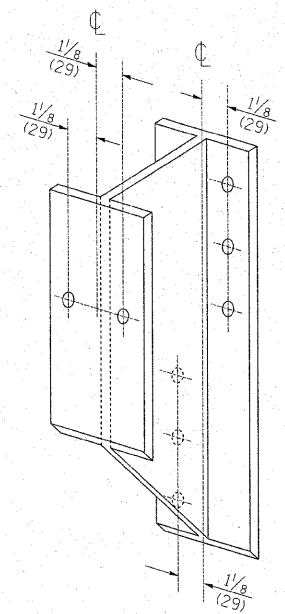
**REMOVE AND REERECT
STEEL PLATE BEAM GUARDRAIL**

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

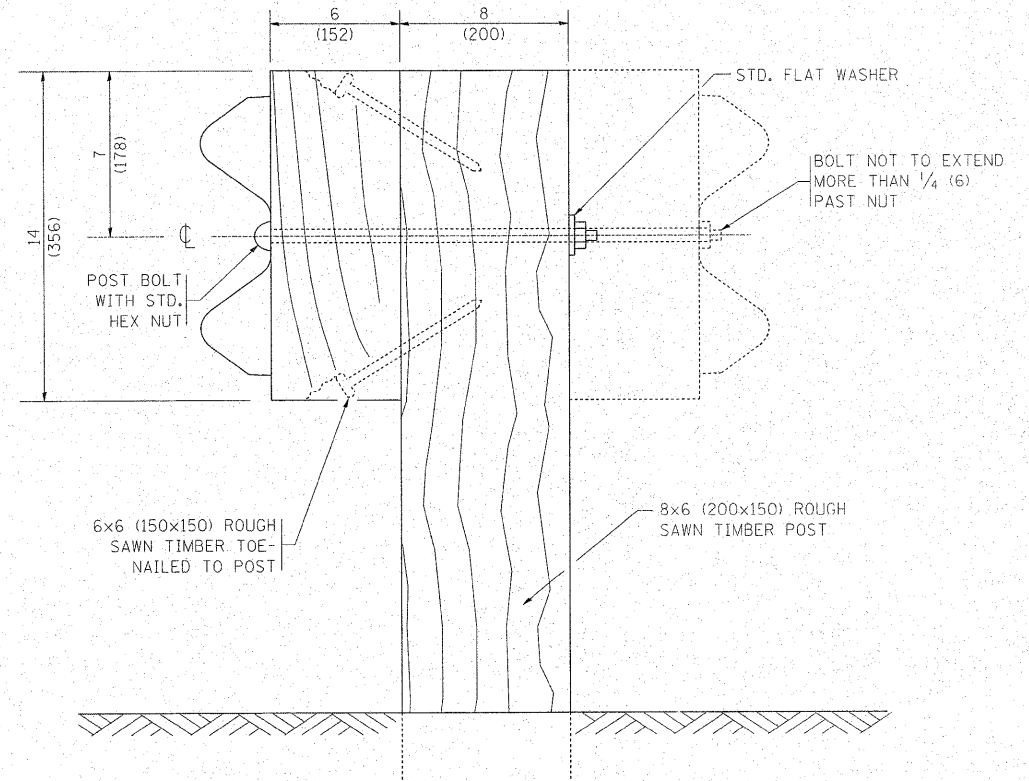
F.A.U. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
1566	29 R-N-1	COOK	120	84
BM-21			CONTRACT NO. 62377	
FED. ROAD DIST. NO. 1 ILLINOIS FED. AID PROJECT				



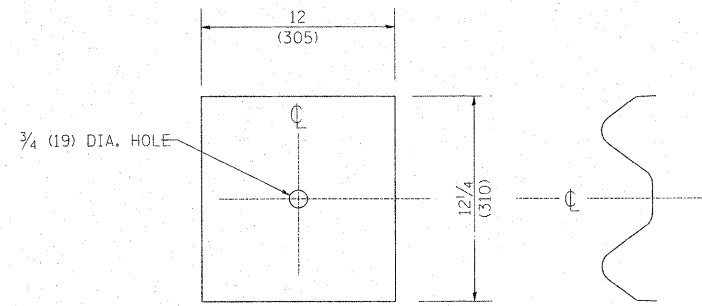
STEEL POST CONSTRUCTION



STEEL BLOCK-OUT DETAIL

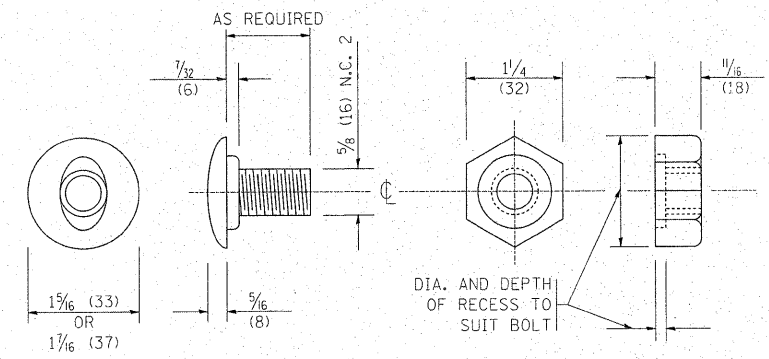


WOOD POST CONSTRUCTION



NOTE:
 PLATE A SHALL BE PLACED BETWEEN RAIL ELEMENT AND BLOCK-OUT AT NON-SPLICE MOUNTING POINTS ONLY WHEN STEEL BLOCK-OUTS ARE USED.

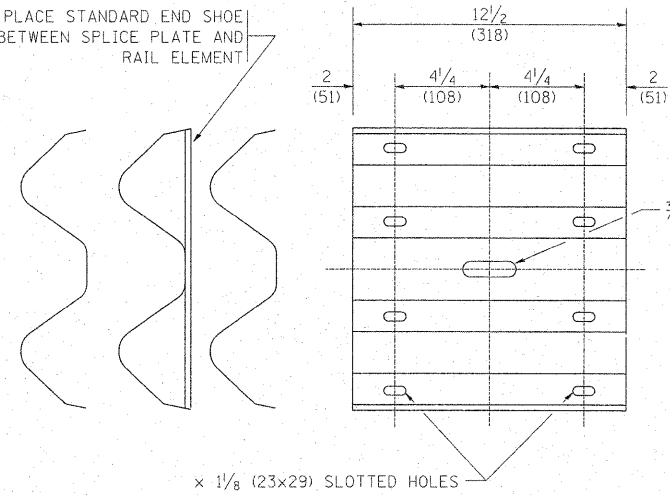
PLATE A



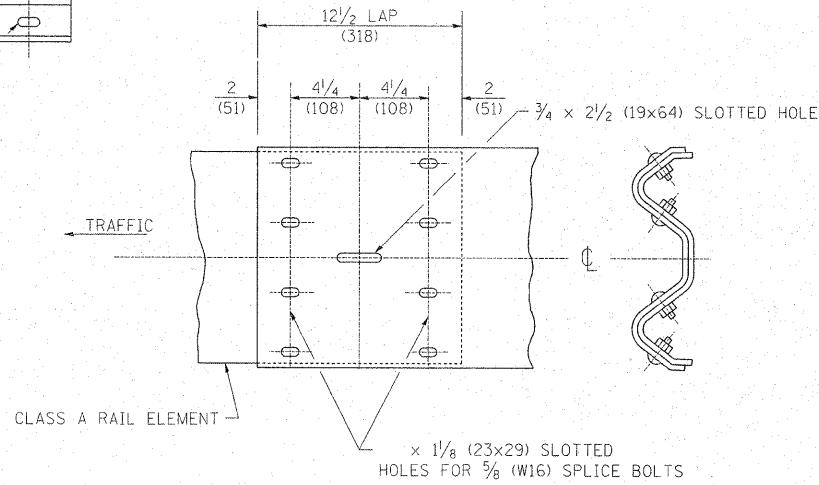
POST OR SPLICE BOLT & NUT

FILE NAME =	USER NAME = steedpa	DESIGNED -	REVISED - 10-31-06	STATE OF ILLINOIS DEPARTMENT OF TRANSPORTATION	REMOVE AND REERECT STEEL PLATE BEAM GUARDRAIL			F.A.U. RTE. 1566	SECTION 29 R-N-1	COUNTY COOK	TOTAL SHEETS 120	SHEET NO. 85
PLDT SCALE = 50.7684' / IN.	CHECKED -	REVISED -	REVISED -		SCALE: NONE	SHEET NO. 2 OF 4 SHEETS	STA. TO STA.	FED. ROAD DIST. NO. 1 ILLINOIS FED. AID PROJECT				
PLDT DATE = 2/3/2011	DATE -	REVISED -	REVISED -		BM-21 CONTRACT NO. 62377							

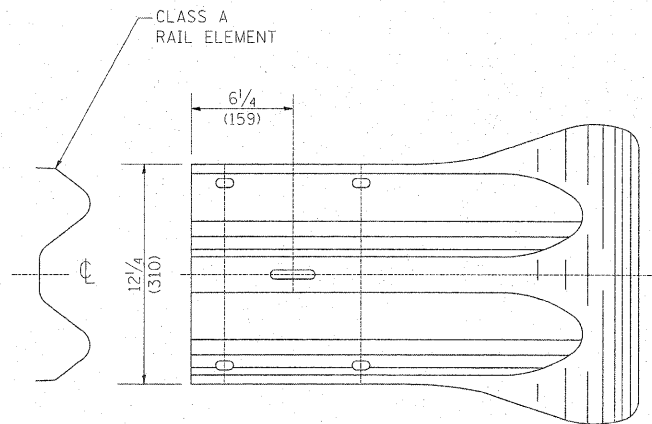
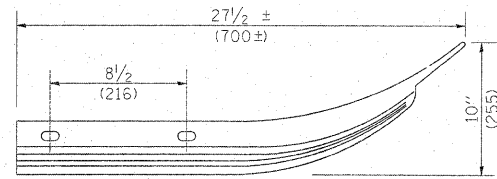
PLACE STANDARD END SHOE BETWEEN SPLICE PLATE AND RAIL ELEMENT



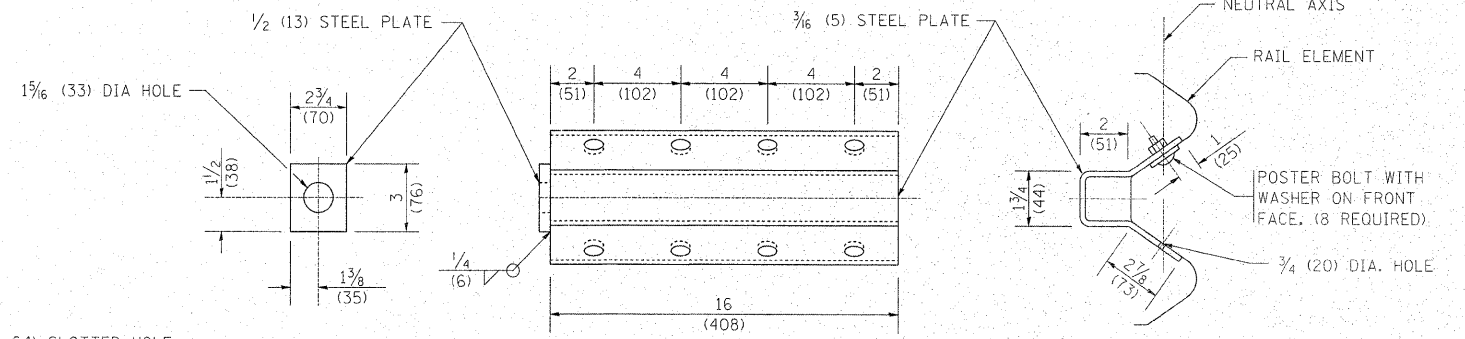
SPLICE PLATE



RAIL ELEMENT SPLICE



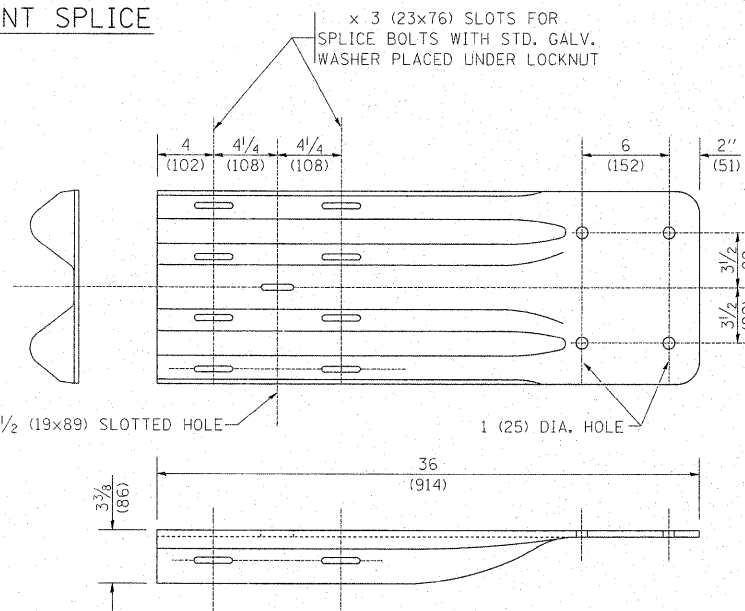
END SECTION



NOTE:

ANCHOR PLATE T SHALL BE USED TO ATTACH CABLE ASSEMBLY TO GUARDRAIL WHEN REQUIRED ON TRAFFIC BARRIER TERMINALS.

ANCHORE PLATE T DETAILS



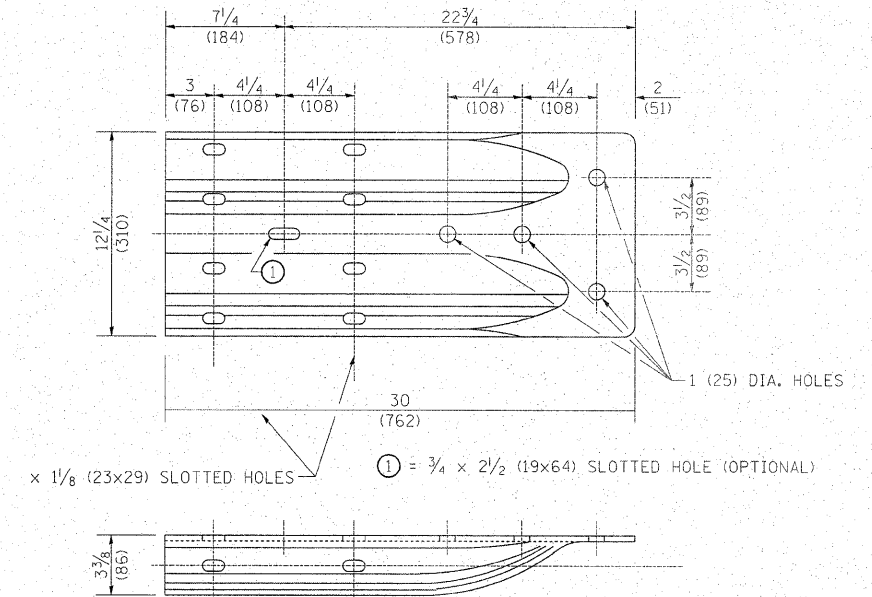
END SHOE

NOTE:

WHEN END SHOE IS ATTACHED TO A BRIDGE PARAPET WHICH HAS AN EXPANSION JOINT, THE BOLTS SHALL BE PROVIDED WITH A LOCKNUT OR DOUBLE NUT AND SHALL BE TIGHTENED ONLY TO A POINT THAT WILL ALLOW GUARDRAIL MOVEMENT.

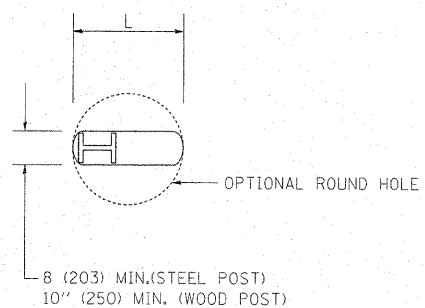
THE STANDARD END SHOE SHALL BE ATTACHED TO THE CONCRETE WITH PRE-DRILLED OR SELF-DRILLING ANCHOR BOLTS. THE ANCHOR CONE SHALL BE SET FLUSH WITH THE SURFACE OF THE CONCRETE.

EXTERNALLY THREADED STUDS PROTRUDING FROM THE SURFACE OF THE CONCRETE WILL NOT BE PERMITTED.

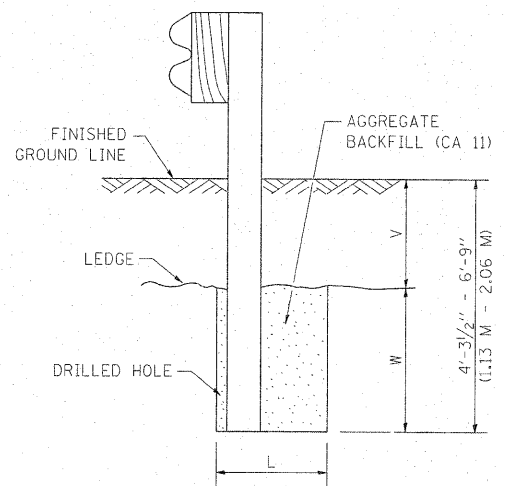


ALTERNATE END SHOE

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PLOT SCALE = 50.7684' / IN.	CHECKED -	REVISOR -	REVISOR -		SCALE: NONE	SHEET NO. 3 OF 4 SHEETS	STA. TO STA.	BM-21		CONTRACT NO. 62377	
PLOT DATE = 2/3/2011	DATE -	REVISOR -	REVISOR -		FED. ROAD DIST. NO. 1 ILLINOIS FED. AID PROJECT						



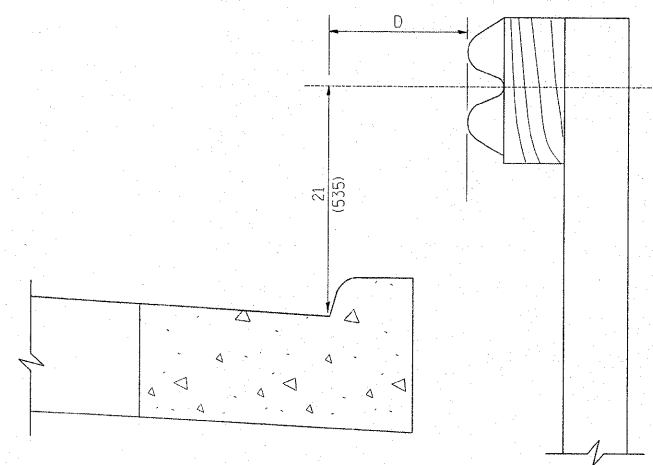
PLAN



NOTE:
LEDGE LINE IS TOP OF ROCK LEDGE OR HARD SLAG FILL.

ELEVATION

FOOTING FOR POST WHEN IMPERVIOUS MATERIAL IS ENCOUNTERED



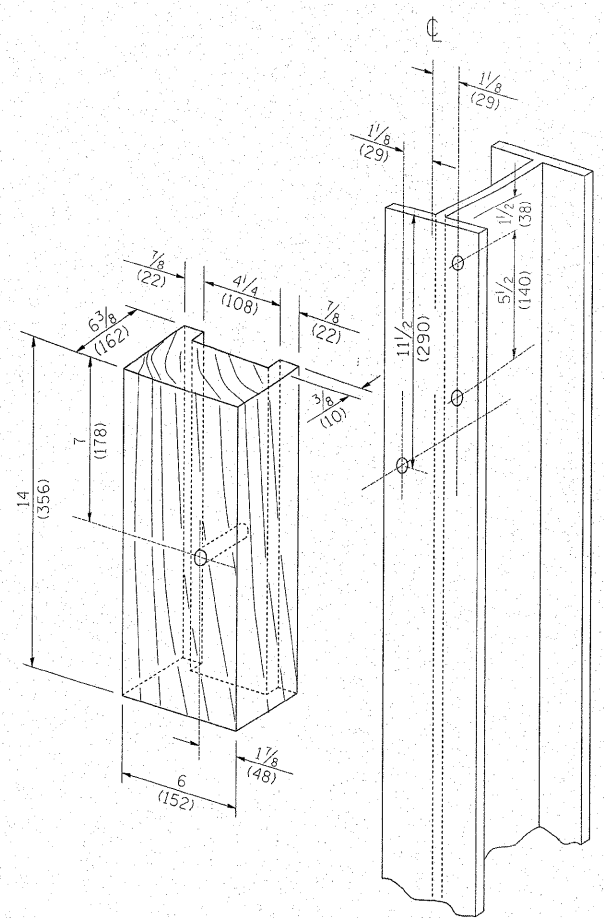
NOTE:

IF IT IS NECESSARY FOR D TO BE MORE THAN 12 (300) AND LESS THAN 10'-0" (3.0 M) TYPE M-2 (M-5) CURB AND GUTTER (STD. E06001) SHALL BE USED IN FRONT OF AND IN ADVANCE OF THE GUARDRAIL.

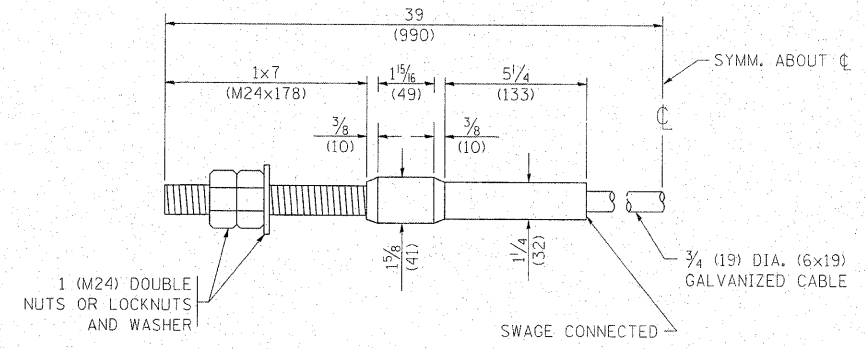
GUARDRAIL PLACED BEHIND CURB

(D = 0 DESIRABLE TO 12 (300) MAXIMUM)

V	W	L	
		STEEL POST	WOOD POST
0 - 18 (0 - 460)	24 (610)	21 (530)	23 (580)
>18 - 41.5 (> 460 - 825)	12 (305)	8 (203)	10 (250)
>41.5 - 53.5 (> 825 - 1.13 M)	12 - 0 (350 - 0)	8 (203)	10 (250)

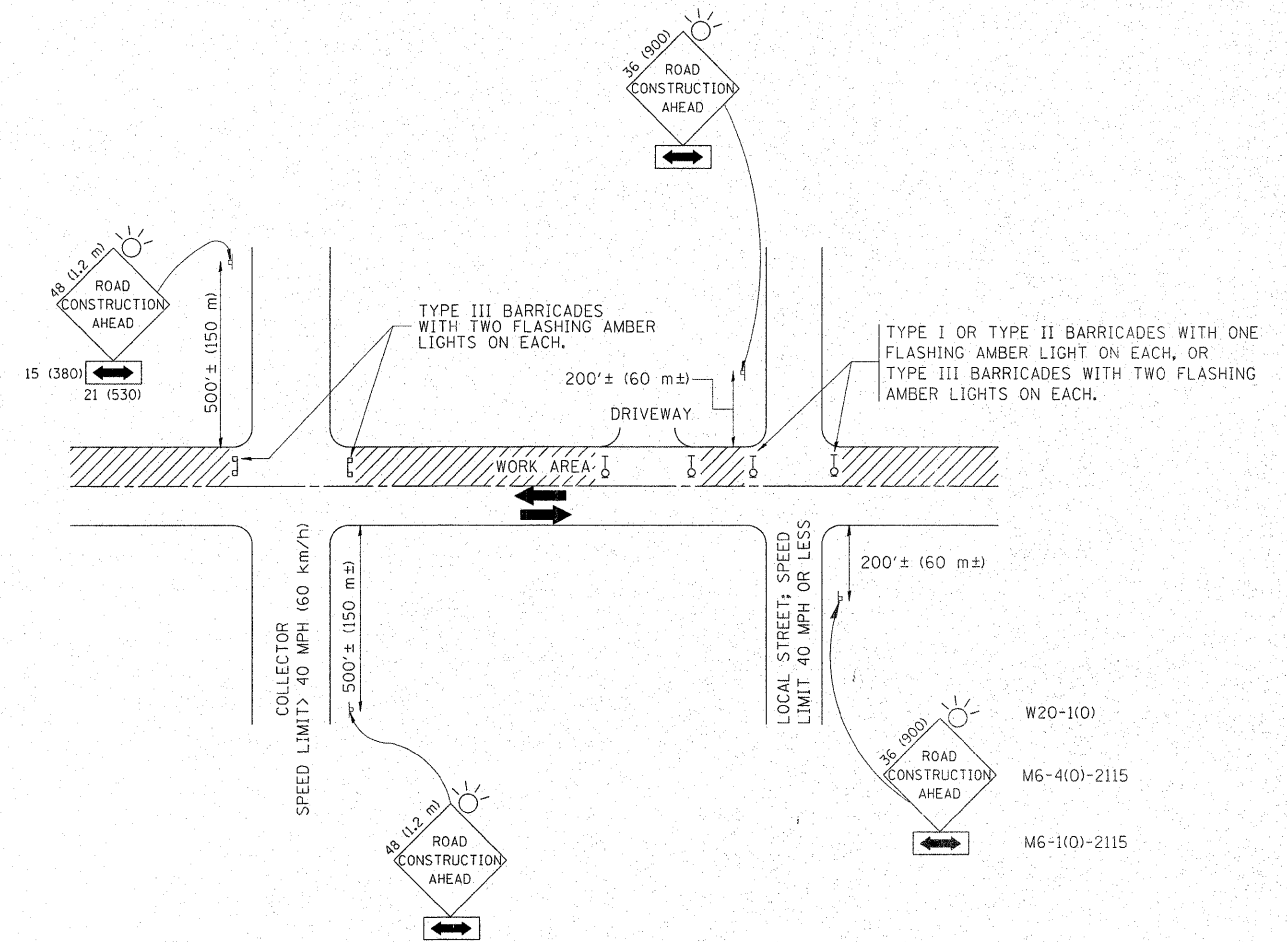


WOOD BLOCK-OUT AND STEEL POST DETAILS



CABLE ASSEMBLY

(40,000 LBS (18,100 KG) MIN. BREAKING STRENGTH)
TIGHTEN TO TAUT TENSION



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

NOTES:

- A. FOR NO LANE RESTRICTION ON THE SIDE ROAD OR DRIVEWAYS
- 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:
 - ONE **ROAD CONSTRUCTION AHEAD** SIGN 36 x 36 (900x900) WITH A FLASHER AND FLAG MOUNTED ON IT APPROXIMATELY 200' (60 m) IN ADVANCE OF THE MAIN ROUTE.
 - 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.
 - SIDE ROAD WITH A SPEED LIMIT GREATER THAN 40 MPH (60 km/h) AS SHOWN ON THE DRAWING AND AS DIRECTED BY THE ENGINEER:
 - 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.
 - 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.
 - WHEN THE SIDE ROAD LIES BETWEEN THE BEGINNING OF THE MAINLINE SIGNING AND THE WORK ZONE, A SINGLE HEADED ARROW (M6-1) SHALL BE USED IN LIEU OF THE DOUBLE HEADED ARROW (M6-4).
- B. FOR A LANE CLOSURE ON A SIDE ROAD OR DRIVEWAY:
- USE APPLICABLE PORTIONS OF THE TYPICAL APPLICATION OF TRAFFIC CONTROL DEVICES (STD. 701501, STD. 701606 OR THE APPROPRIATE STANDARD). THE SPACING OF SIGNS AND BARRICADES SHALL BE ADJUSTED FOR FIELD CONDITIONS AS DIRECTED BY THE ENGINEER. THE DIRECTIONAL ARROW SHALL BE COVERED OR REMOVED WHEN NO LONGER CONSISTENT WITH THE SIDE ROAD LANE CLOSURE.
- C. ADVANCE WARNING SIGNS ARE TO BE OMITTED ON DRIVEWAY UNLESS OTHERWISE NOTED.
- D. THE TRAFFIC CONTROL AND PROTECTION FOR SIDE ROADS, INTERSECTIONS, AND DRIVEWAYS SHALL BE INCIDENTAL TO THE COST OF SPECIFIED TRAFFIC CONTROL STANDARDS OR ITEMS.

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

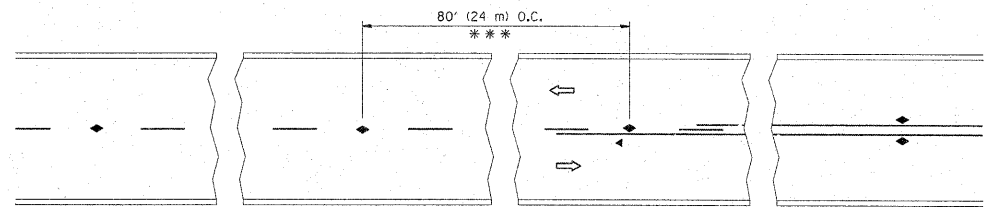
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ci\pwwork\pwwork\stedpa\08159915\Dist5	ed.dgn	DRAWN -	REVISED - A. HOUSEH 03-06-96
	PLOT SCALE = 50.7684 / IN.	CHECKED -	REVISED - A. HOUSEH 10-15-96
	PLOT DATE = 2/3/2011	DATE - 06-89	REVISED - T. RAMMACHER 01-06-00

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

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

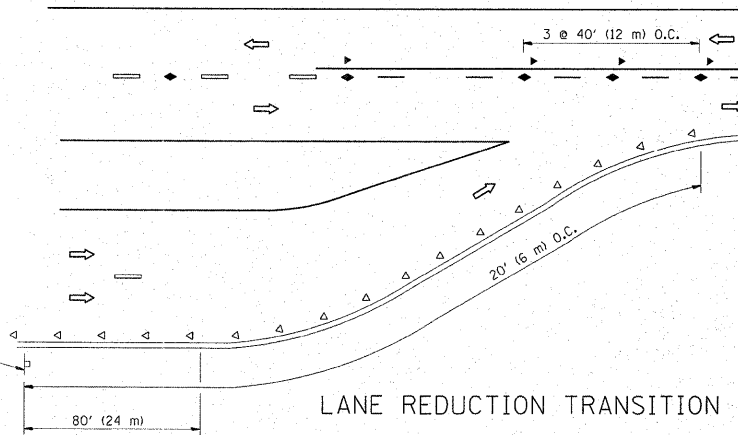
SCALE: NONE SHEET NO. 1 OF 1 SHEETS STA. TO STA.

F.A.U. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
1566	29 R-N-1	COOK	120	88
TC-10			CONTRACT NO. 62377	
FED. ROAD DIST. NO. 1 ILLINOIS FED. AID PROJECT				

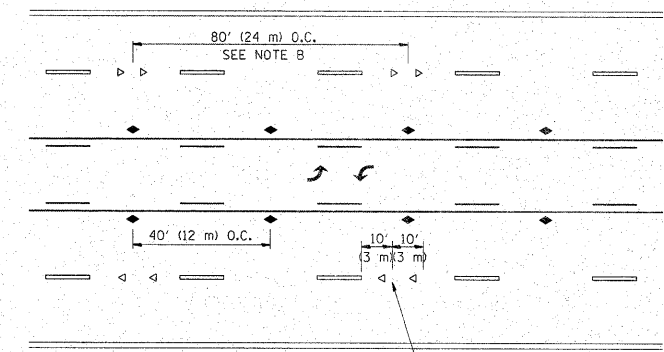


*** REDUCE TO 40' (12 m) O.C. ON CURVES WITH POSTED OR ADVISORY SPEED 45 M.P.H. (70 km/h) OR LESS.

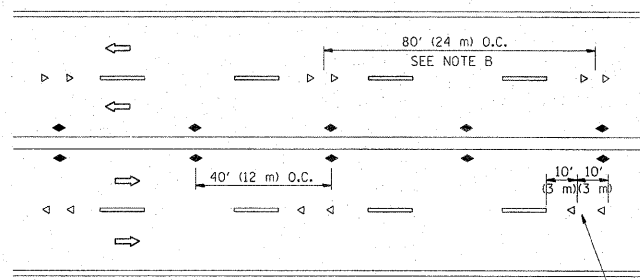
TWO-LANE/TWO-WAY



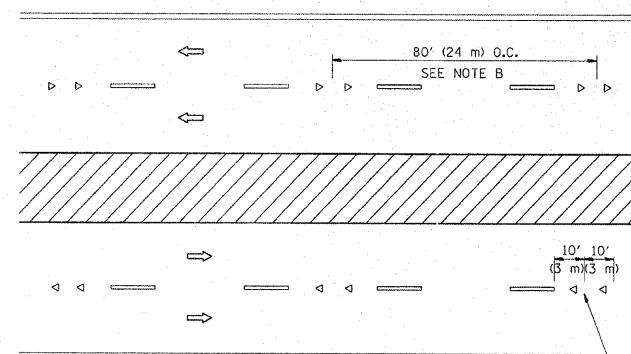
LANE REDUCTION TRANSITION



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

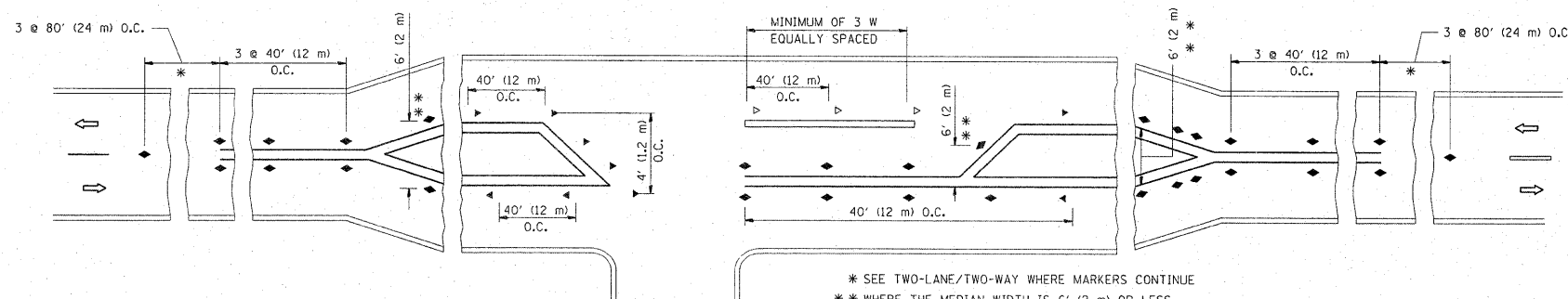
- YELLOW STRIPE
- WHITE STRIPE
- ◀ ONE-WAY AMBER MARKER
- ◁ ONE-WAY CRYSTAL MARKER (W/O)
- ◆ TWO-WAY AMBER MARKER

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 SHOULD BE INCLUDED IN THE PLANS.
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

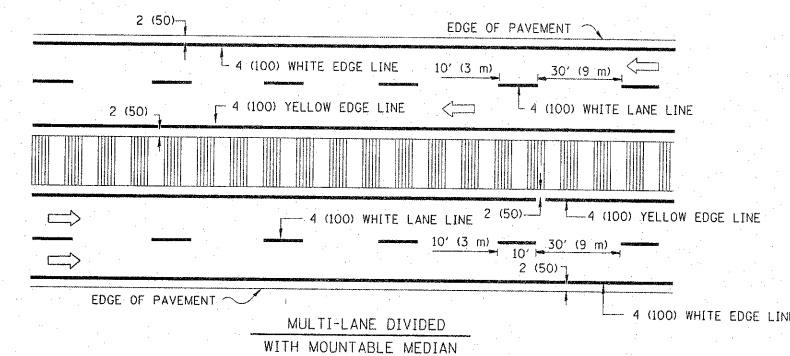
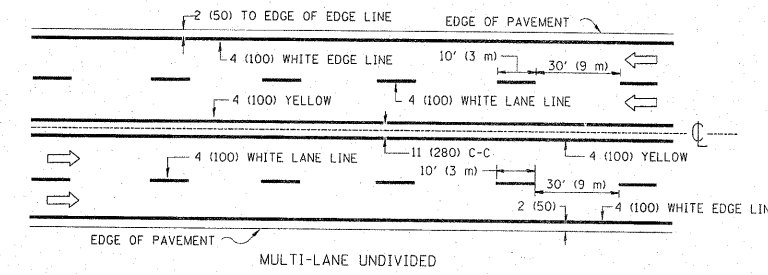
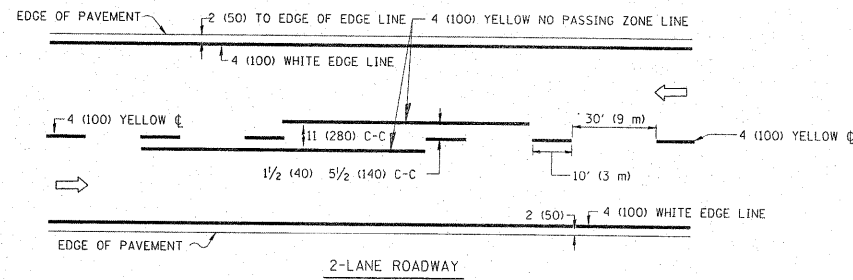
* SEE TWO-LANE/TWO-WAY WHERE MARKERS CONTINUE
 ** WHERE THE MEDIAN WIDTH IS 6' (2 m) OR LESS USE TWO-WAY MARKERS.

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

FILE NAME =	USER NAME = steedpa	DESIGNED -	REVISED - T. RAMMACHER 09-19-94
ct:\pw-work\pwidot\steedpa\0159915\01st5.dgn		DRAWN -	REVISED - T. RAMMACHER 03-12-99
	PLOT SCALE = 50.7684' / IN.	CHECKED -	REVISED - T. RAMMACHER 01-06-00
	PLOT DATE = 2/3/2011	DATE -	REVISED - C. JUCIUS 09-09-09

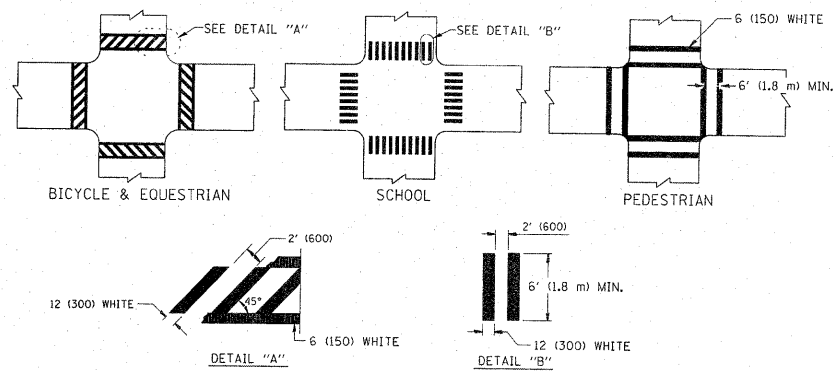
STATE OF ILLINOIS
 DEPARTMENT OF TRANSPORTATION

TYPICAL APPLICATIONS		F.A.U. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
RAISED REFLECTIVE PAVEMENT MARKERS (SNOW-PLOW RESISTANT)		1566	29 R-N-1	COOK	120	89
SCALE: NONE		SHEET NO. 1 OF 1 SHEETS		CONTRACT NO. 62377		
STA. TO STA.		FED. ROAD DIST. NO. 1 ILLINOIS FED. AID PROJECT				

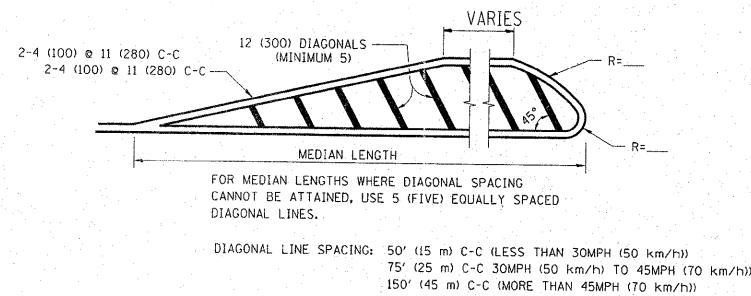
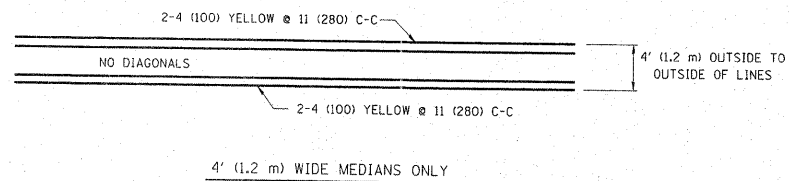


NOTE: MEDIANS WITH BARRIER CURB DO NOT REQUIRE AN EDGE LINE

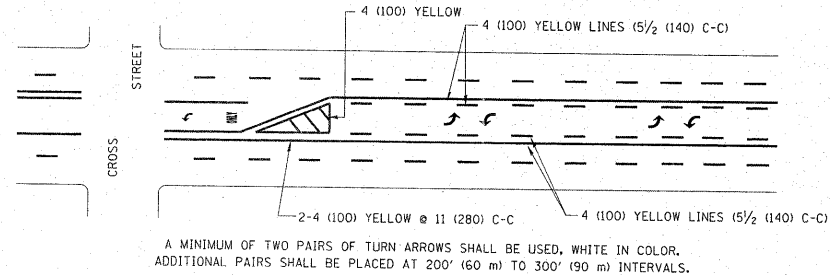
TYPICAL LANE AND EDGE LINE MARKING



TYPICAL CROSSWALK MARKING

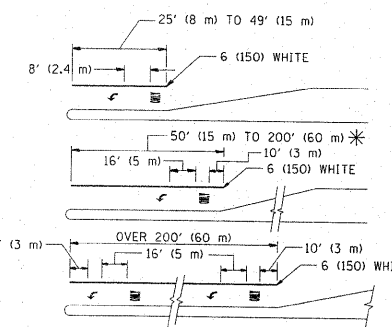
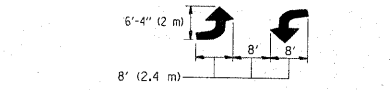


MEDIANS OVER 4' (1.2 m) WIDE



TYPICAL PAINTED MEDIAN MARKING

MEDIAN WITH TWO-WAY LEFT TURN LANE

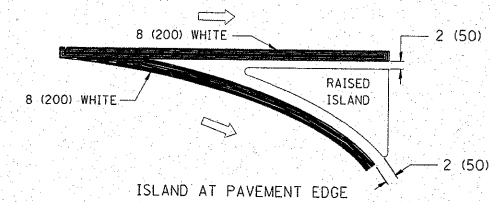
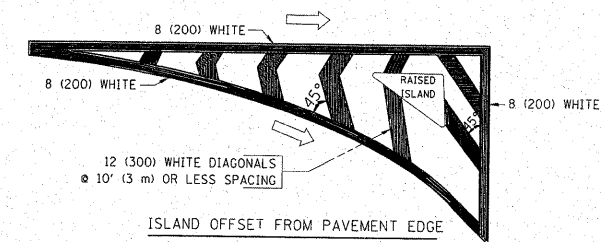


FULL SIZE LETTERS 8' (2.4 m) AND ARROWS SHALL BE USED.
* AREA = 15.6 SQ. FT. (1.5 m²) ; ONLY AREA = 20.8 SQ. FT. (1.9 m²)

* 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



TYPICAL ISLAND MARKING

TYPE OF MARKING	WIDTH OF LINE	PATTERN	COLOR	SPACING / REMARKS
CENTERLINE ON 2 LANE PAVEMENT	4 (100)	SKIP-DASH	YELLOW	10' (3 m) LINE WITH 30' (9 m) SPACE
CENTERLINE ON MULTI-LANE UNDIVIDED PAVEMENT	2 @ 4 (100)	SOLID	YELLOW	11 (280) C-C
NO PASSING ZONE LINES: FOR ONE DIRECTION FOR BOTH DIRECTIONS	4 (100) 2 @ 4 (100)	SOLID SOLID	YELLOW YELLOW	5/2 (140) C-C FROM SKIP-DASH CENTERLINE 11 (280) C-C OMIT SKIP-DASH CENTERLINE BETWEEN
LANE LINES	4 (100) 5 (125) ON FREEWAYS	SKIP-DASH SKIP-DASH	WHITE WHITE	10' (3 m) LINE WITH 30' (9 m) SPACE
DOTTED LINES (EXTENSIONS OF CENTER, LANE OR TURN LANE MARKINGS)	SAME AS LINE BEING EXTENDED	SKIP-DASH	SAME AS LINE BEING EXTENDED	2' (600) LINE WITH 6' (1.8 m) SPACE
EDGE LINES	4 (100)	SOLID	YELLOW-LEFT WHITE-RIGHT	OUTLINE MOUNTABLE MEDIANS IN YELLOW; EDGE LINES ARE NOT USED NEXT TO BARRIER CURB
TURN LANE MARKINGS	6 (150) LINE; FULL SIZE LETTERS & SYMBOLS (8' (2.4m))	SOLID	WHITE	SEE TYPICAL TURN LANE MARKING DETAIL
TWO WAY LEFT TURN MARKING	2 @ 4 (100) EACH DIRECTION 8' (2.4m) LEFT ARROW	SKIP-DASH AND SOLID IN PAIRS	YELLOW WHITE	10' (3 m) LINE WITH 30' (9 m) SPACE FOR SKIP-DASH; 5/2 (140) C-C BETWEEN SOLID LINE AND SKIP-DASH LINE SEE TYPICAL TWO-WAY LEFT TURN MARKING DETAIL
CROSSWALK LINES (PEDESTRIAN) A. DIAGONALS (BIKE & EQUESTRIAN) B. LONGITUDINAL BARS (SCHOOL)	2 @ 6 (150) 12 (300) @ 45° 12 (300) @ 90°	SOLID SOLID SOLID	WHITE WHITE WHITE	NOT LESS THAN 6' (1.8 m) APART 2' (600) APART 2' (600) APART SEE TYPICAL CROSSWALK MARKING DETAILS.
STOP LINES	24 (600)	SOLID	WHITE	PLACE 4' (1.2 m) IN ADVANCE OF AND PARALLEL TO CROSSWALK, IF PRESENT, OTHERWISE, PLACE AT DESIRED STOPPING POINT, PARALLEL TO CROSSROAD CENTERLINE, WHERE POSSIBLE
PAINTED MEDIANS	2 @ 4 (100) WITH 12 (300) DIAGONALS @ 45° NO DIAGONALS USED FOR 4' (1.2 m) WIDE MEDIANS	SOLID	YELLOW; TWO WAY TRAFFIC WHITE; ONE WAY TRAFFIC	11 (280) C-C FOR THE DOUBLE LINE SEE TYPICAL PAINTED MEDIAN MARKING.
GORE MARKING AND CHANNELIZING LINES	8 (200) WITH 12 (300) DIAGONALS @ 45°	SOLID	WHITE	DIAGONALS: 15' (4.5 m) C-C (LESS THAN 30MPH (50 km/h)) 20' (6 m) C-C 30MPH (50 km/h) TO 45MPH (70 km/h) 30' (9 m) C-C (OVER 45MPH (70 km/h))
RAILROAD CROSSING	24 (600) TRANSVERSE LINES; "RR" IS 6' (1.8 m) LETTERS; 16 (400) LINE FOR "X"	SOLID	WHITE	SEE STATE STANDARD 780001 AREA OF: "R"=3.6 SQ. FT. (0.33 m ²) EACH "X"=54.0 SQ. FT. (5.0 m ²)
SHOULDER DIAGONALS	12 (300) @ 45°	SOLID	WHITE - RIGHT YELLOW - LEFT	50' (15 m) C-C (LESS THAN 30MPH (50 km/h)) 75' (25 m) C-C 30 MPH (50 km/h) TO 45MPH (70 km/h) 150' (45 m) C-C (OVER 45MPH (70 km/h))

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

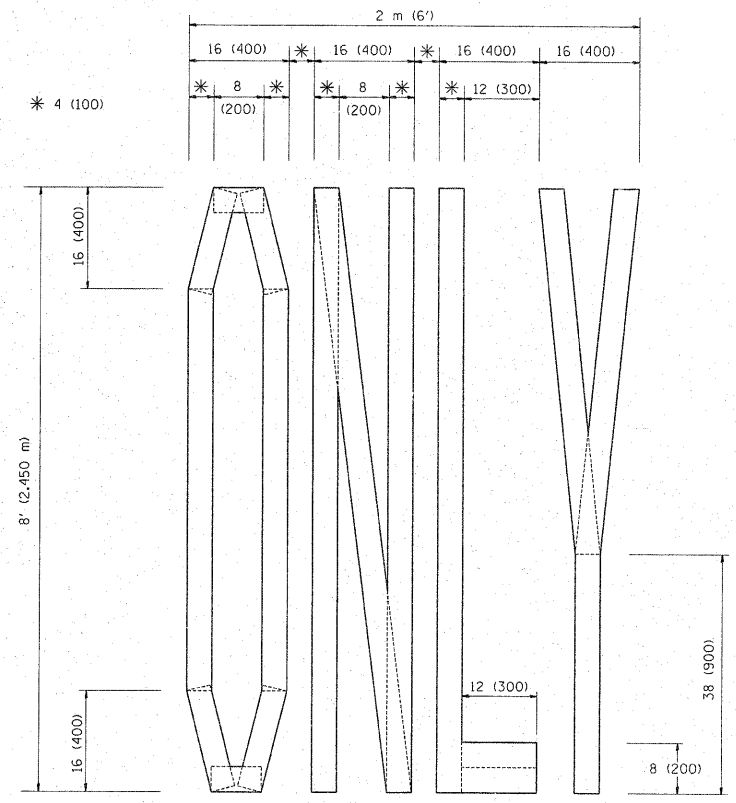
All dimensions are in inches (millimeters) unless otherwise shown.

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	PLOT DATE = 2/3/2011	DATE - 03-19-90	REVISED -

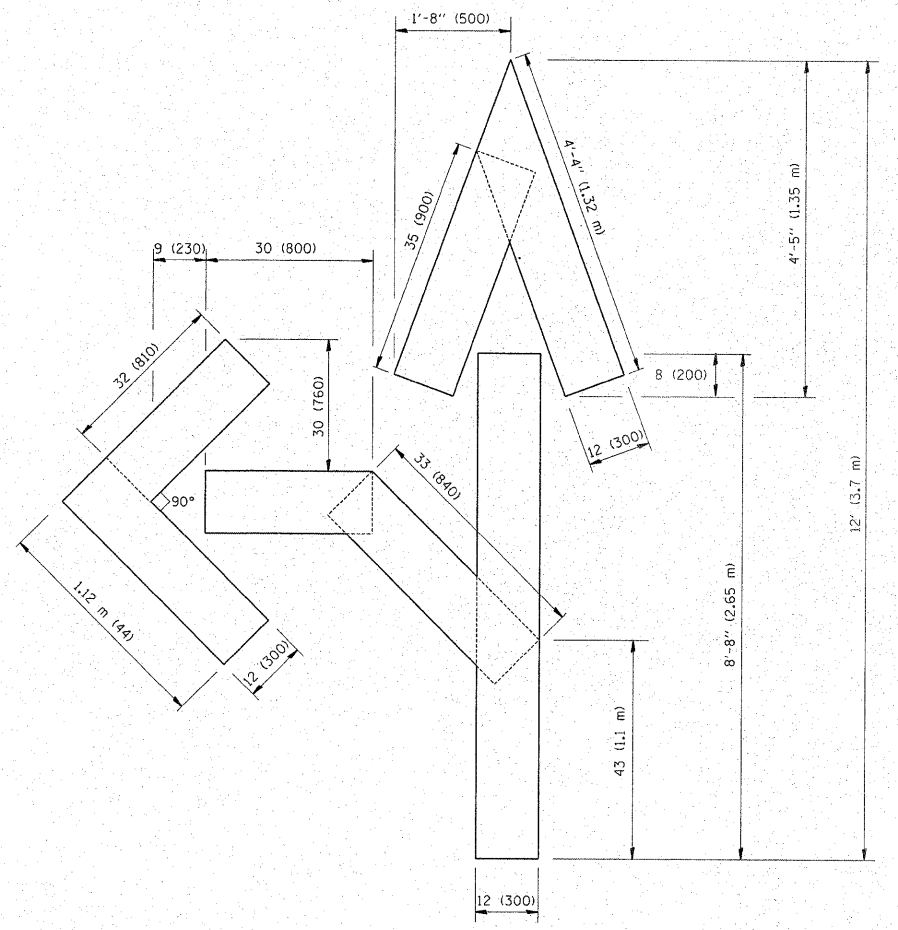
STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

DISTRICT ONE			
TYPICAL PAVEMENT MARKINGS			
SCALE: NONE	SHEET NO. 1 OF 1 SHEETS	STA.	TO STA.

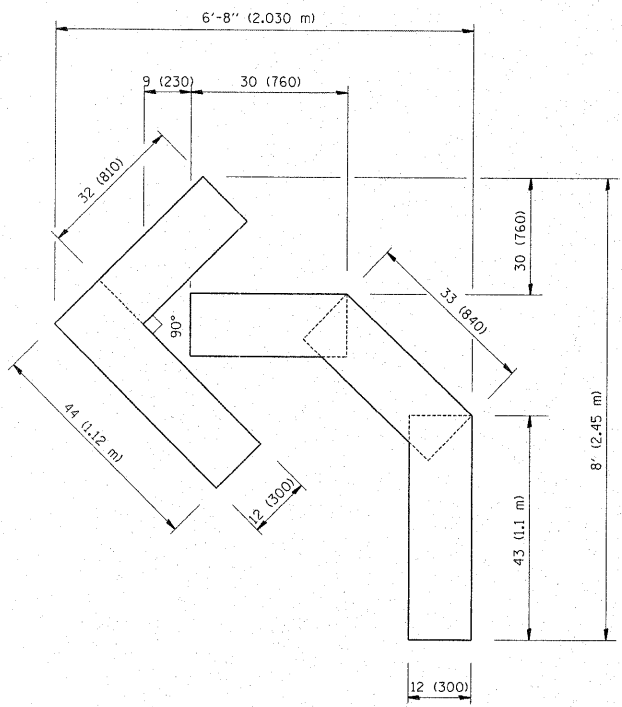
F.A.U. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
1566	29 R-N-1	COOK	120	90
TC-13			CONTRACT NO. 62377	
FED. ROAD DIST. NO. 1 (ILLINOIS) FED. AID PROJECT				



QUANTITY
 4 (100) LINE = 64.1 ft. (19.7 m)
 21.1 sq. ft. (1.97 sq. m)



QUANTITY
 4 (100) LINE = 82.5 ft. (25.3 m)
 27.5 sq. ft. (2.53 sq. m)



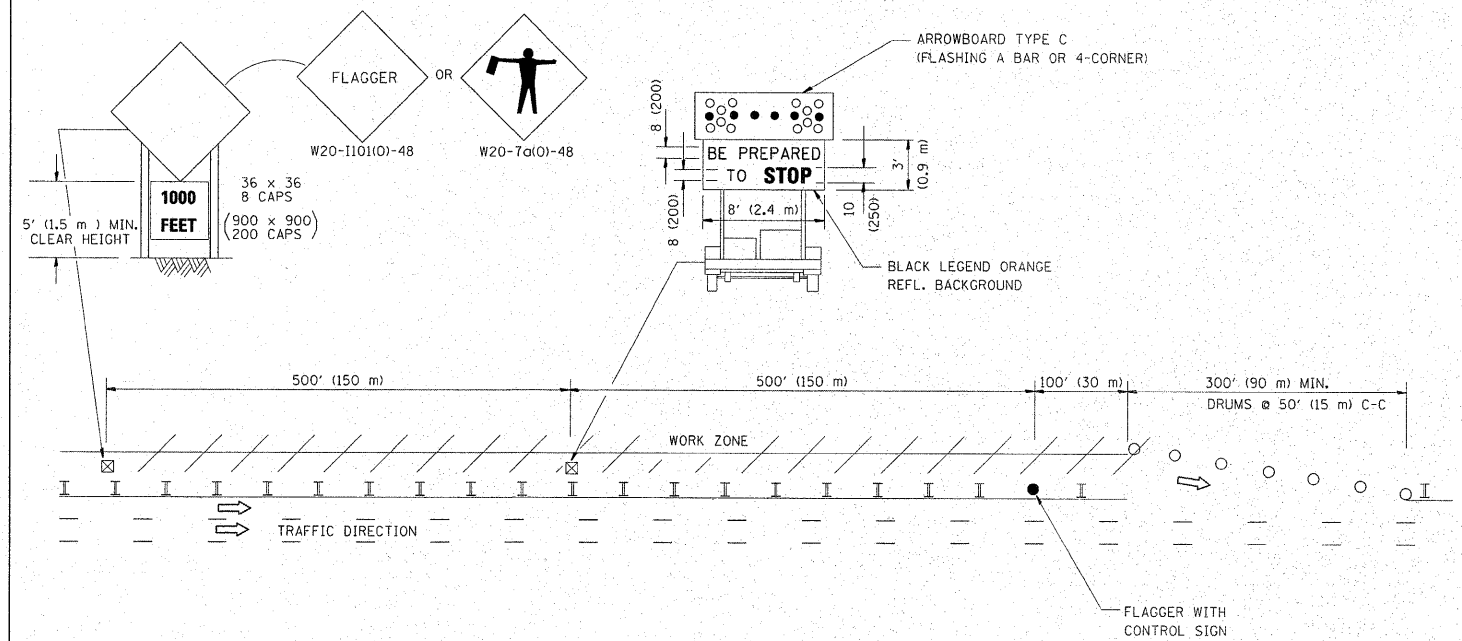
QUANTITY
 4 (100) LINE = 45.5 ft. (13.9 m)
 15.2 sq. ft. (1.39 sq. m)

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

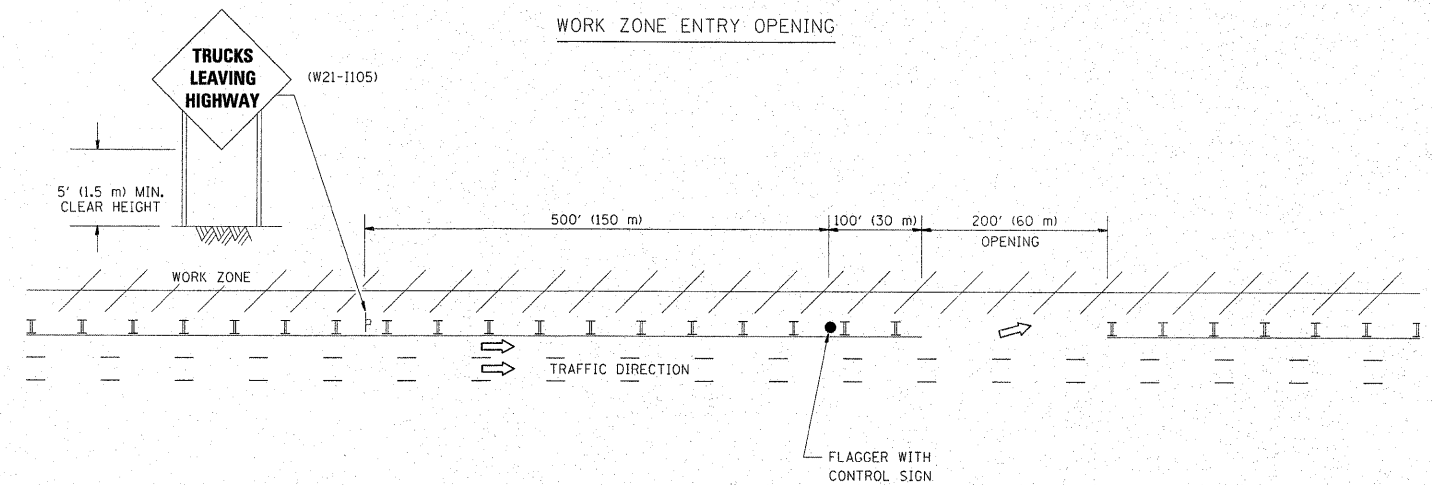
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cr:\pw\work\p\dot\steedpa\08159915\01st5	d.dgn	DRAWN -	REVISED - T. RAMMACHER 11-04-97					1566	29 R-N-1	COOK	120	91
PLOT SCALE = 50.7684 / / IN.	CHECKED -	REVISED - T. RAMMACHER 03-02-98	REVISED - E. GOMEZ 08-28-00		TC-16			CONTRACT NO. 62377				
PLOT DATE = 2/9/2011	DATE = 09-18-94				SCALE: NONE	SHEET NO. 1 OF 1 SHEETS	STA.	TO STA.	FED. ROAD DIST. NO. 1 ILLINOIS FED. AID PROJECT			

SIGNING FOR FLAGGING OPERATIONS AT WORK ZONE OPENINGS

WORK ZONE EXIT OPENING



WORK ZONE ENTRY OPENING



NOTES:

1. THE ARROWBOARD, THE FLAGGER AHEAD SIGN AND THE TRUCKS LEAVING HIGHWAY SIGN SHALL BE REMOVED OR TURNED AWAY FROM TRAFFIC AND THE EXIT AND ENTRY OPENINGS SHALL BE CLOSED WHEN THE FLAGGING OPERATION CEASES. NON OPERATING EQUIPMENT SHALL COMPLY WITH ARTICLE 701.11
2. WORK ZONE EXIT OPENINGS SHOULD BE A MINIMUM OF ONE HALF MILE APART.
3. EXITING THE WORK ZONE AT ANY PLACE OTHER THAN AT A WORK ZONE EXIT OPENING WILL BE PROHIBITED.
4. ALL VEHICLES SHALL ENTER THE WORK ZONE AT ENTRY OPENINGS, USING THEIR TURN SIGNALS TO WARN MOTORISTS

ALL DIMENSIONS ARE IN INCHES (MILLIMETERS) UNLESS OTHERWISE SHOWN

FILE NAME =	USER NAME = steedpa	DESIGNED -	REVISED - J.A.F. 04-03
c:\pwork\pwork\stedpa\d0159915\Dist5.dgn		DRAWN -	REVISED - J.A.F. 02-06
	PLOT SCALE = 50.7684' / IN.	CHECKED -	REVISED - S.P.B. 01-07
	PLOT DATE = 2/9/2011	DATE -	REVISED - S.P.B. 12-09

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

SIGNING FOR FLAGGING OPERATIONS
AT WORK ZONE OPENINGS

F.A.U. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
1566	29 R-N-1	COOK	120	92
TC-18			CONTRACT NO. 62377	
FED. ROAD DIST. NO. 1 ILLINOIS FED. AID PROJECT				

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

ROUTE MARKERS

FOR U.S. ROUTES
MI-40-2424

FOR ILLINOIS ROUTES
MI-50-2424

R.R. UNMARKED ROUTES
SPECIAL 24" x 18" VARIABLE
4" BLACK LETTERS ON WHITE
REFLECTIVE BACKGROUND

ARROWS SIGNS

M5-1L-2115

M5-1R-2115

M6-1-2115

M6-1-2115

M6-3-2115

M6-3-2115

CARDINAL DIRECTION & DETOUR SIGNS

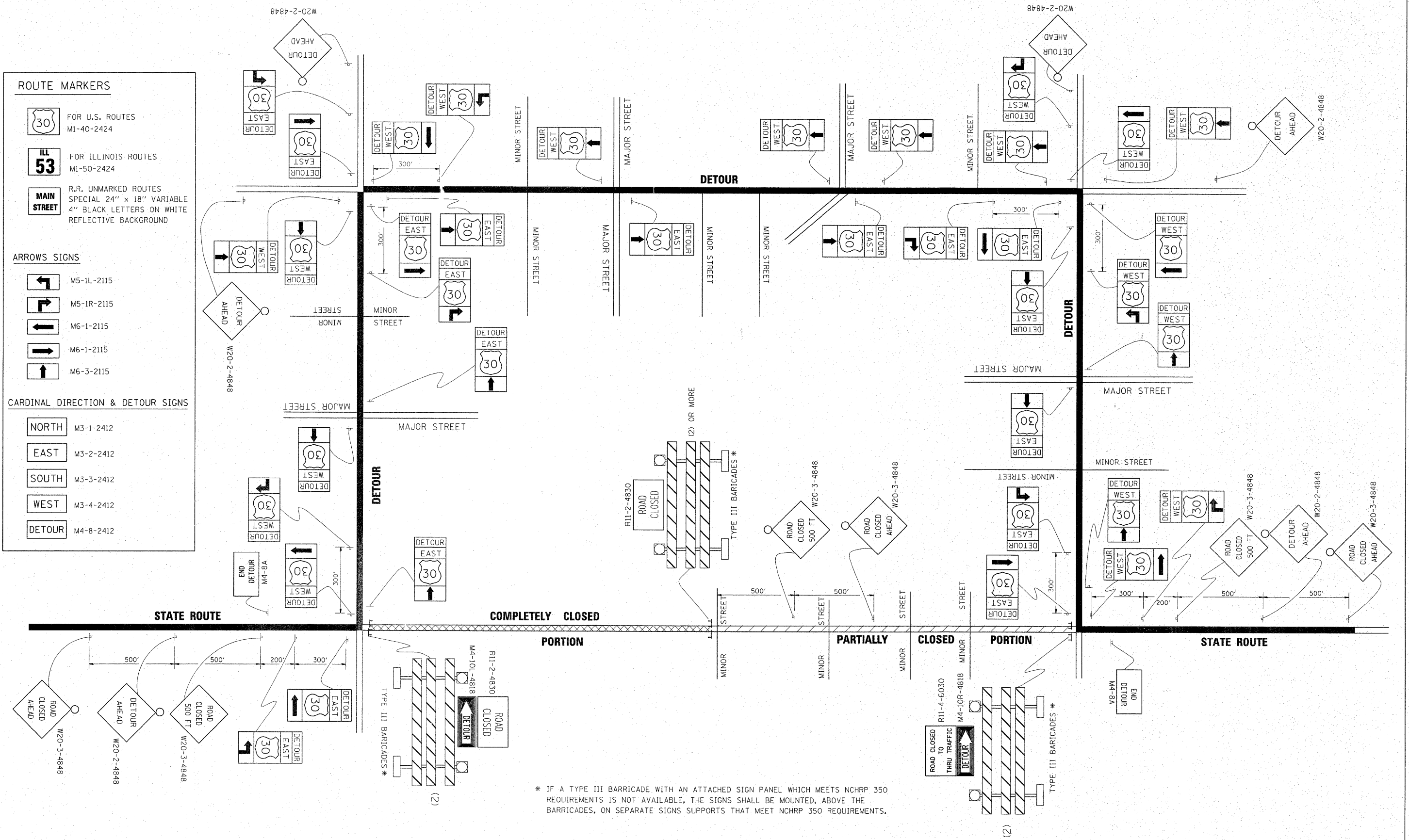
NORTH M3-1-2412

EAST M3-2-2412

SOUTH M3-3-2412

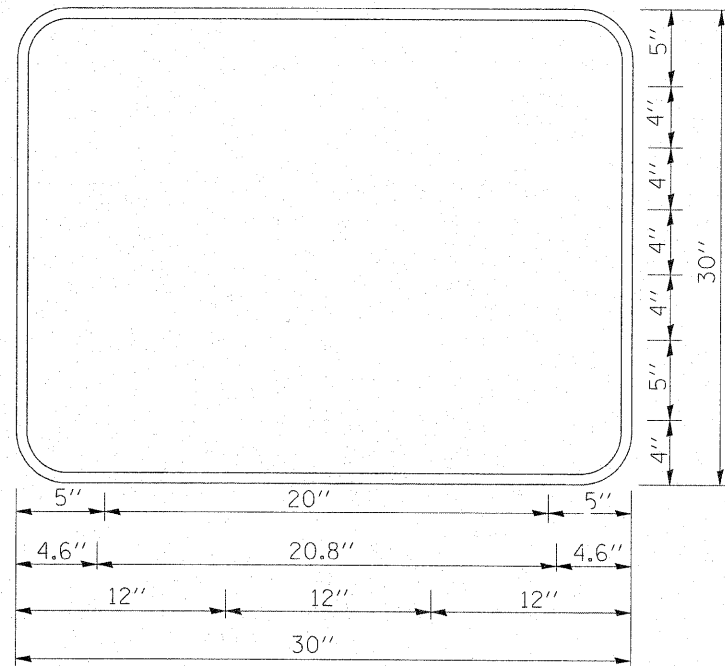
WEST M3-4-2412

DETOUR M4-8-2412



* IF A TYPE III BARRICADE WITH AN ATTACHED SIGN PANEL WHICH MEETS NCHRP 350 REQUIREMENTS IS NOT AVAILABLE, THE SIGNS SHALL BE MOUNTED, ABOVE THE BARRICADES, ON SEPARATE SIGNS SUPPORTS THAT MEET NCHRP 350 REQUIREMENTS.

FILE NAME =	USER NAME = steedpa	DESIGNED -	REVISED - 10-18-02	STATE OF ILLINOIS DEPARTMENT OF TRANSPORTATION	DETOUR SIGNING FOR CLOSING STATE HIGHWAYS	F.A.U. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.	
c:\pwwork\pwwork\stedpa\d0159915\01st5.dgn		DRAWN -	REVISED - R. BORO 09-14-09			1566	29 R-N-1	COOK	120	93	
PLOT SCALE = 50.7684' / IN.		CHECKED -	REVISED -			TC-21					
PLOT DATE = 2/9/2011		DATE -	REVISED -			CONTRACT NO. 62377					
						FED. ROAD DIST. NO. 1 ILLINOIS FED. AID PROJECT					



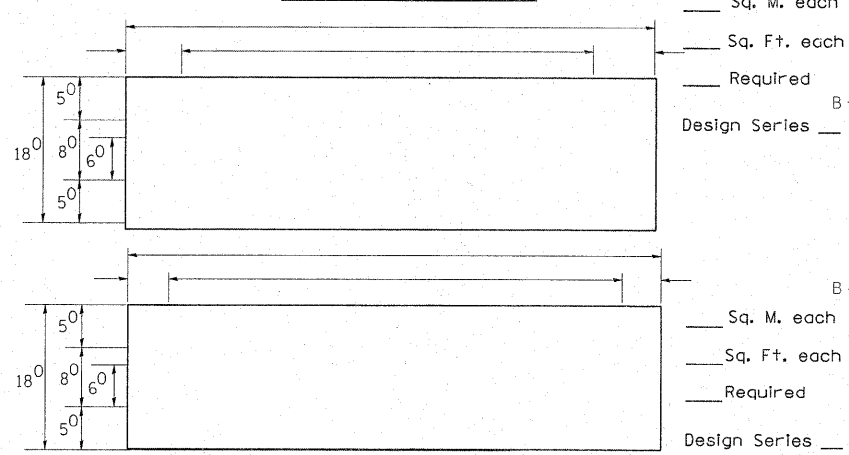
3.0" RADIUS, 0.5" BORDER, WHITE ON GREEN; REFLECTORIZED
 "DRIVEWAY" D; "ENTRANCE" D; STANDARD ARROW CUSTOM 12.0" x 5.0"

NOTES:

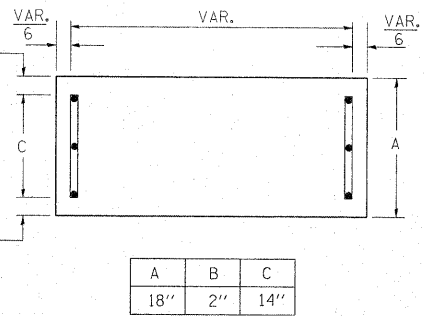
1. HALF OF THE SIGNS WILL REQUIRE A LEFT HAND FACING ARROW.
2. TWO SIGNS SHALL BE USED AT EACH COMMERCIAL ENTRANCE PLACED BACK-TO-BACK; ONE WITH A RIGHT HAND ARROW (SHOWN) SHALL BE PLACED ON THE NEAR RIGHT SIDE THE DRIVEWAY AND ONE WITH A LEFT HAND ARROW SHALL BE PLACED ON THE FAR LEFT SIDE OF THE DRIVEWAY.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

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

PANEL SIGN DESIGN TYPE 1



SUPPORTING CHANNELS



A	B	C
18"	2"	14"

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

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

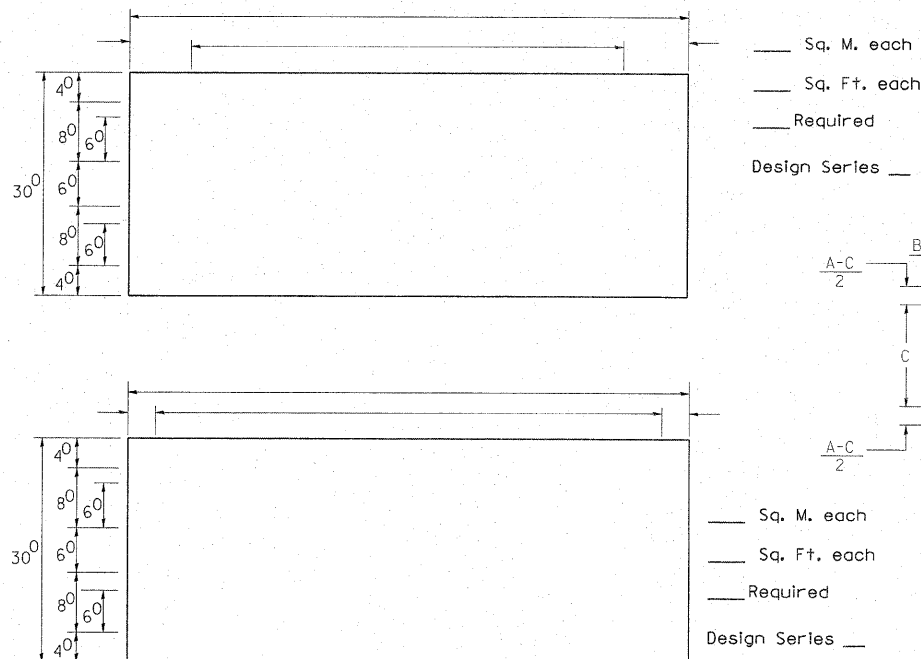
EXAMPLE, 2³ DENOTES 3/8"

UPPER AND LOWER CASE
LETTER WIDTHS

LETTERS	6 INCH UPPER CASE LETTERS		8 INCH UPPER CASE LETTERS		LETTERS	6 INCH LOWER CASE LETTERS	
	SERIES		SERIES			SERIES	
	C	D	C	D		C	D
A	36	50	50	65	a	35	42
B	32	40	43	53	b	35	42
C	32	40	43	53	c	35	41
D	32	40	43	53	d	35	42
E	30	35	40	47	e	35	42
F	30	35	40	47	f	23	26
G	32	40	43	53	g	35	42
H	32	40	43	53	h	35	42
I	07	07	11	12	i	11	11
J	30	36	40	50	j	20	22
K	32	41	43	54	k	35	42
L	30	35	40	47	l	11	11
M	37	45	51	61	m	60	70
N	32	40	43	53	n	35	42
O	34	42	45	55	o	36	43
P	32	40	43	53	p	35	42
Q	34	42	45	55	q	35	42
R	32	40	43	53	r	26	32
S	32	40	43	53	s	36	42
T	30	35	40	47	t	27	32
U	32	40	43	53	u	35	42
V	35	44	47	60	v	42	47
W	44	52	60	70	w	55	64
X	34	40	45	53	x	44	51
Y	36	50	50	66	y	46	53
Z	32	40	43	53	z	36	43

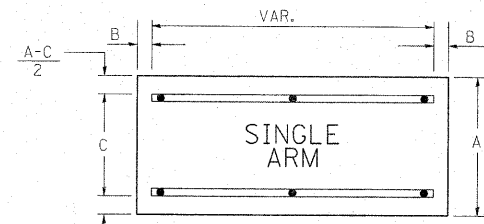
NOTE: SIGN DIMENSIONS ARE IN ENGLISH UNITS

PANEL SIGN DESIGN TYPE 2



SINGLE ARM

SUPPORTING CHANNELS



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

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

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

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

FIRST NUMBER	SECOND NUMBER																			
	0		1		2		3		4		5		6		7		8		9	
	C	D	C	D	C	D	C	D	C	D	C	D	C	D	C	D	C	D	C	D
0 9	16	17	16	17	14	15	12	14	14	15	14	15	16	17	12	14	16	17	16	17
1	20	21	20	21	20	21	16	17	14	15	20	21	20	21	14	15	20	21	20	21
2 3 4	14	15	14	15	14	15	12	14	12	14	14	15	14	15	11	12	16	17	14	15
5	14	15	14	15	14	15	11	12	11	12	14	15	14	15	11	12	14	15	14	15
6	16	17	14	15	14	15	12	14	14	15	14	15	11	12	14	15	14	15	14	15
7	12	14	12	14	14	15	12	15	05	06	12	14	14	15	11	12	14	15	12	14
8	16	17	16	17	14	15	12	15	12	14	14	15	16	17	12	14	16	17	14	15

NUMBER	6 INCH SERIES		8 INCH SERIES	
	C	D	C	D
1	12	14	15	20
2	32	40	43	53
3	32	40	43	53
4	35	43	47	57
5	32	40	43	53
6	32	40	43	53
7	32	40	43	53
8	32	40	43	53
9	32	40	43	53
0	34	42	45	55

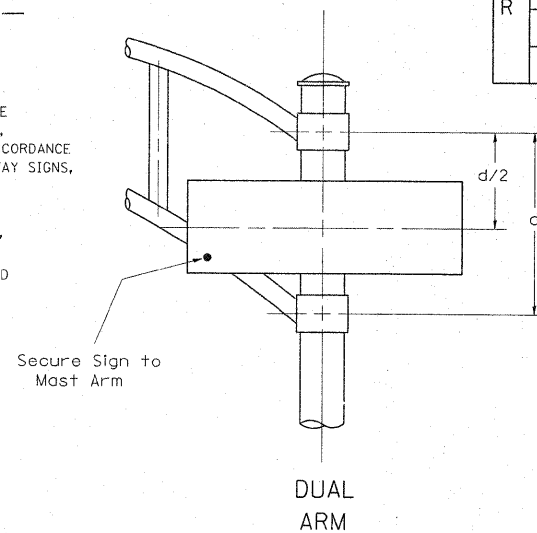
GENERAL NOTES

- 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 HAVE A WHITE REFLECTORIZED LEGEND AND BORDER ON A GREEN REFLECTORIZED BACKGROUND, TYPE A SHEETING.
- THE SIGN LENGTH SHOULD BE INCREASED IN 6-INCH INCREMENTS, BUT THE OVERALL LENGTH SHOULD NOT EXCEED 8'-0".
- ALL BORDERS SHALL BE 3/4" WIDE AND CORNER RADIUS SHALL BE 2-1/4".
- SIGNFIX ALUMINUM CHANNEL FRAMING SYSTEM SHALL BE USED FOR ALL SIGNS ATTACHED TO SIGNAL POLES AND POSTS. LOCAL SUPPLIERS OF THE SIGNFIX ALUMINUM CHANNEL FRAMING SYSTEM ARE:

* J.O. HERBERT CO. 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.



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

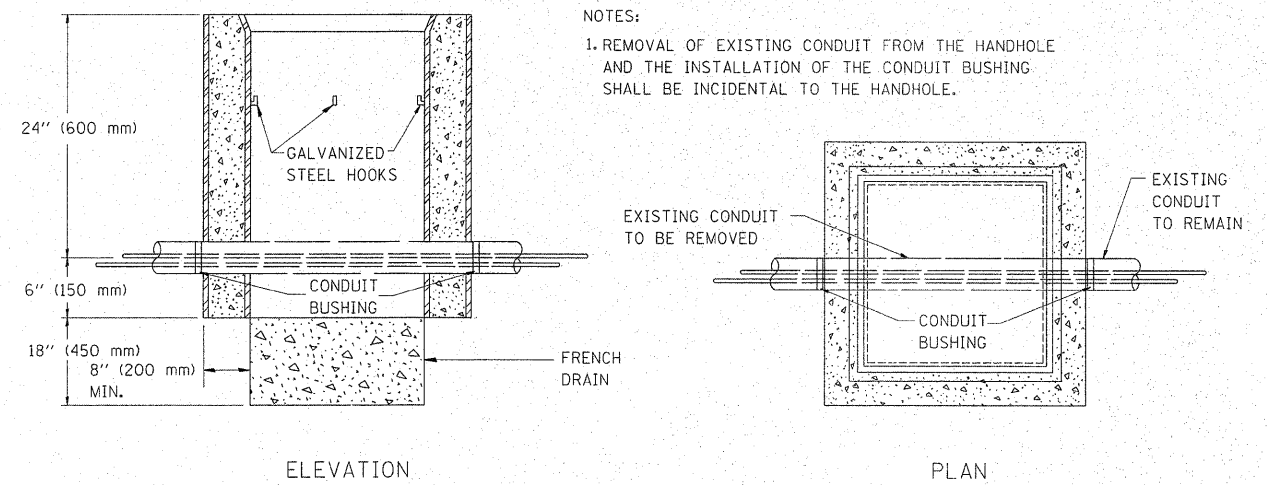
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		CHECKED - DAG/DAD	REVISED -
		DATE - 03-15-09	REVISED -

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

DISTRICT ONE
MAST ARM MOUNTED STREET NAME SIGNS

F.A.U. RTE. 1566	SECTION 29 R-N-1	COUNTY COOK	TOTAL SHEETS 120	SHEET NO. 95
TS-02		CONTRACT NO. 62377		
FED. ROAD DIST. NO. 1 ILLINOIS FED. AID PROJECT				

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



DETAIL
HANDHOLE TO INTERCEPT EXISTING CONDUIT

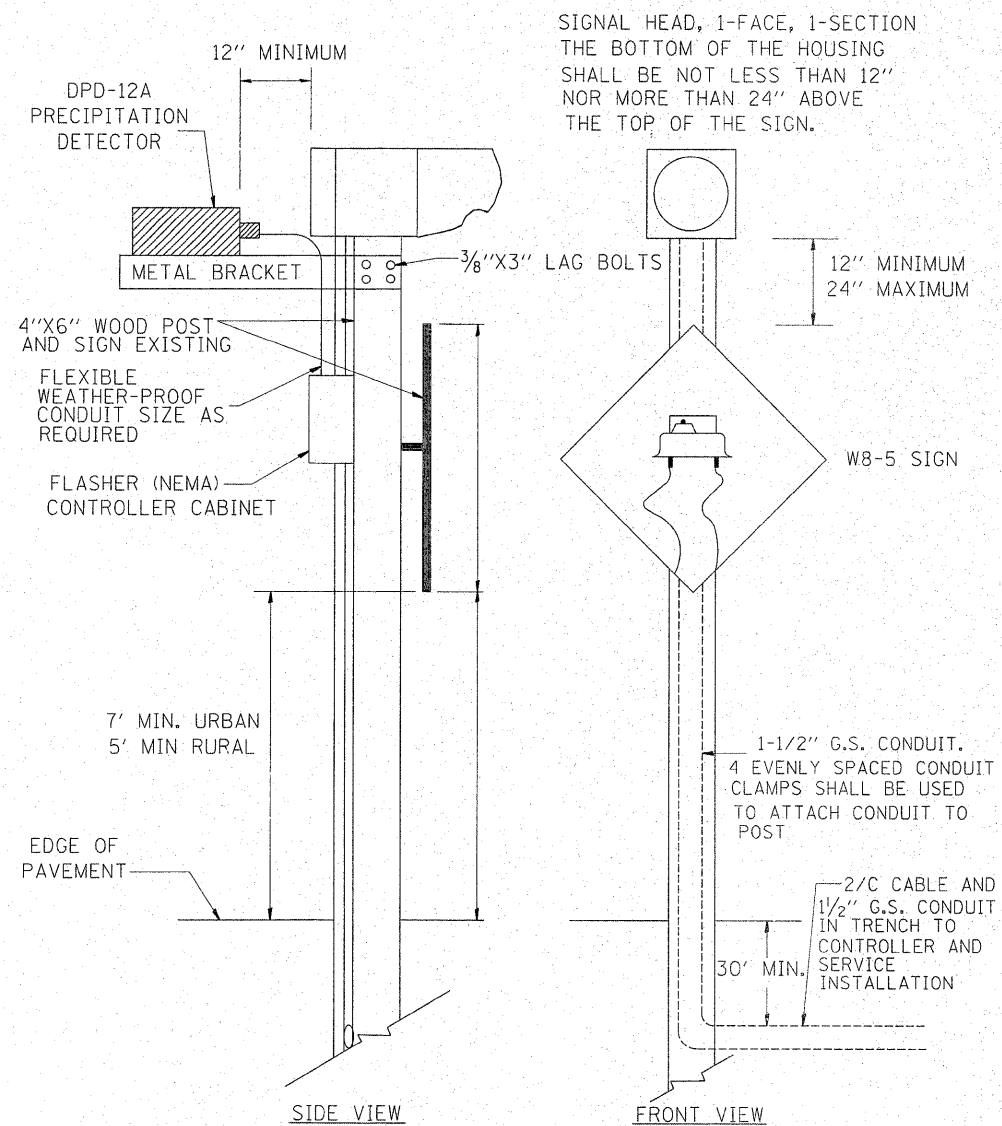
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	PLOT DATE = 2/3/2011	DATE -	REVISED -

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

HANDHOLE TO INTERCEPT EXISTING CONDUIT

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

F.A.U. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
1566	29 R-N-1	COOK	120	96
TS-03		CONTRACT NO. 62377		
FED. ROAD DIST. NO. 1 ILLINOIS FED. AID PROJECT				



POST MOUNTED FLASHING BEACON
WITH PRECIPITATION DETECTOR

(NOT TO SCALE)

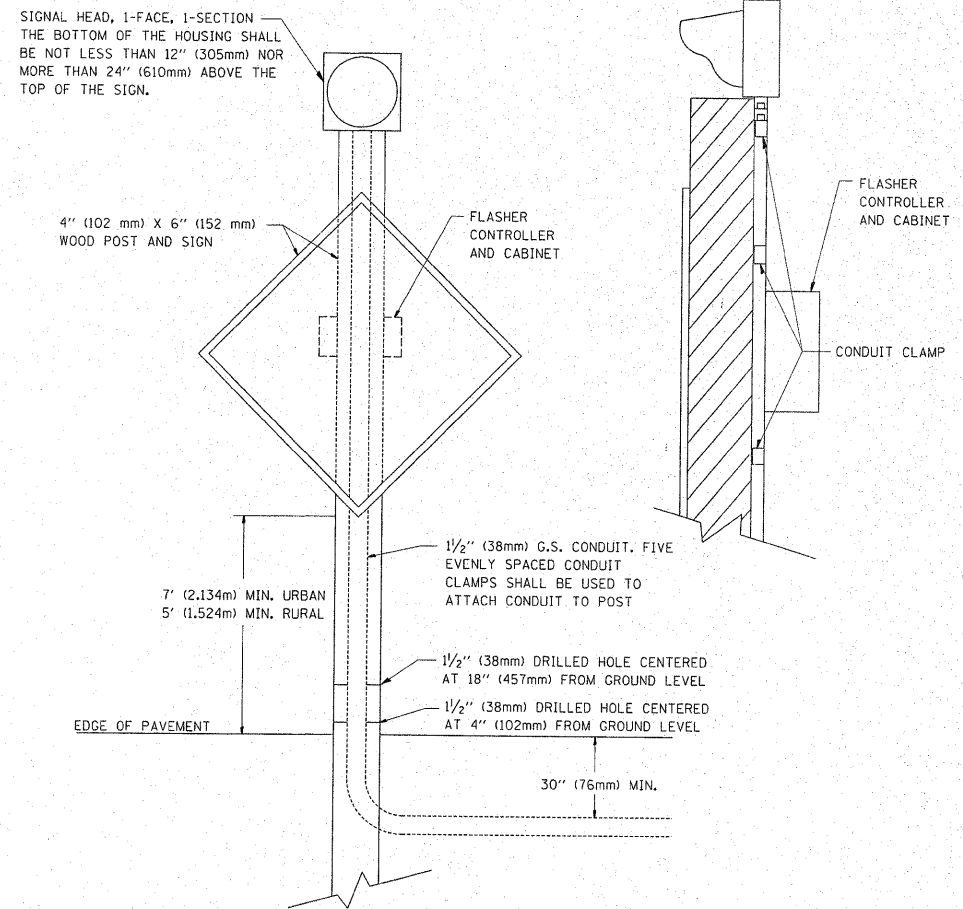
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	PLOT DATE = 2/3/2011	DATE -	REVISED -

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

POST MOUNTED FLASHING BEACON
WITH PRECIPITATION DETECTOR

F.A.U. RTE. 1566	SECTION 29 R-N-1	COUNTY COOK	TOTAL SHEETS 120	SHEET NO. 97
TS-04			CONTRACT NO. 62377	
FED. ROAD DIST. NO. 1 ILLINOIS FED. AID PROJECT				

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



POST MOUNTED FLASHING BEACON
WITH CONTROLLER AND CABINET

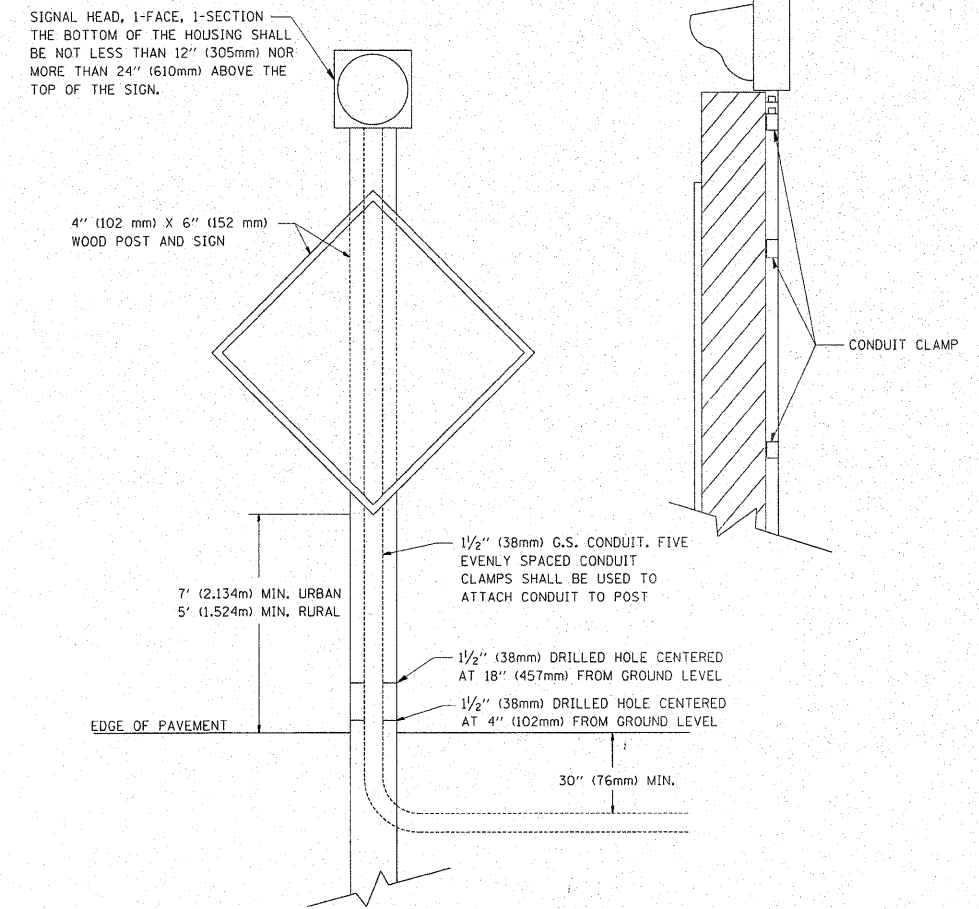
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	PLOT DATE = 2/3/2011	DATE -	REVISED -

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

POST MOUNTED FLASHING BEACON
WITH CONTROLLER AND CABINET

SCALE: NONE SHEET NO. 2 OF 3 SHEETS STA. TO STA.

F.A.U. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
1566	29 R-N-1	COOK	120	98
TS-04			CONTRACT NO. 62377	
FED. ROAD DIST. NO. 1 ILLINOIS FED. AID PROJECT				



POST MOUNTED FLASHING BEACON

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	PLOT SCALE = 50.7684 1 / IN.	CHECKED -	REVISED -
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**STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION**

POST MOUNTED FLASHING BEACON

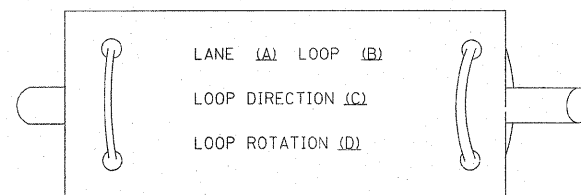
SCALE: NONE SHEET NO. 3 OF 3 SHEETS STA. TO STA.

F.A.U. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
1566	29 R-N-1	COOK	120	99
TS-04		CONTRACT NO. 62377		
FED. ROAD DIST. NO. 1 ILLINOIS FED. AID PROJECT				

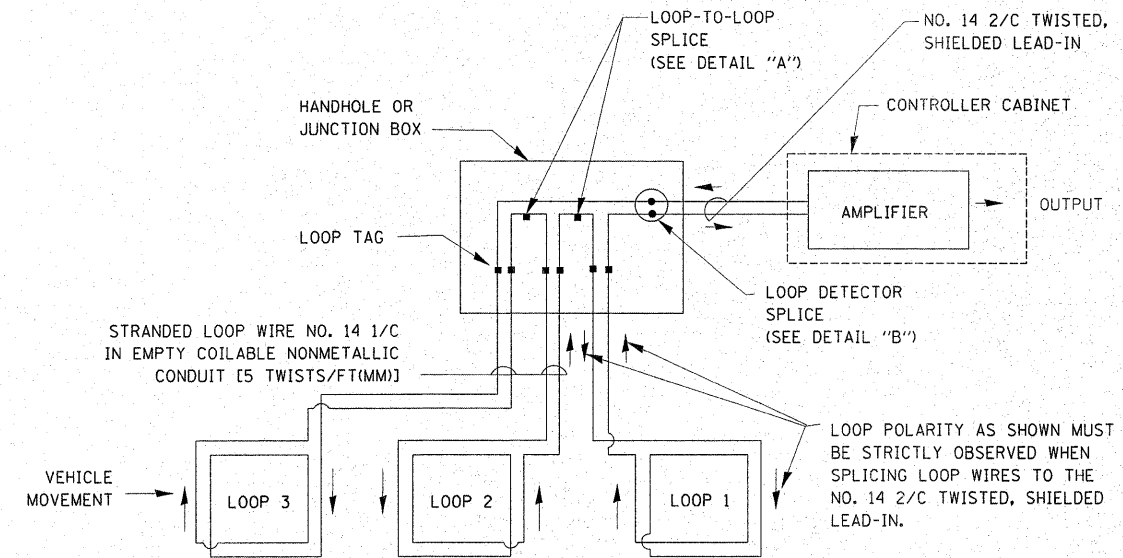
LOOP DETECTOR NOTES

1. EACH PAIR OF LOOP WIRES SHALL BE PLACED IN A SEPARATE EMPTY COILABLE NONMETALLIC CONDUIT FROM THE EDGE OF PAVEMENT TO THE HANDHOLE. SPACING BETWEEN THE HOLES DRILLED IN THE PAVEMENT SHALL NOT BE LESS THAN 6" (150 mm). EMPTY COILABLE NONMETALLIC CONDUIT SHALL BE INCLUDED IN THE COST OF THE LOOP WIRE.
2. THE NUMBER OF LOOP TURNS SHALL BE AS RECOMMENDED BY THE AMPLIFIER MANUFACTURER. ALL ADJACENT SIDES OF THE LOOPS SHALL BE INSTALLED IN SUCH A WAY THAT THE CURRENT FLOW IS IN THE SAME DIRECTION TO REINFORCE ITS MAGNETIC FIELDS FOR SMALL VEHICLE DETECTION.
3. EACH LOOP LEAD-IN SHALL BE IDENTIFIED AND PERMANENTLY TAGGED IN THE HANDHOLE. EACH LEAD-IN CABLE TAG SHALL INDICATE THE LOCATION OF THE LOOP, LOOP ROTATION (CLOCKWISE/COUNTERCLOCKWISE), LOOP LEAD-IN DIRECTION (IN OR OUT), LOOP CABLE NUMBER AND LOCATION IN CABINET, AND NUMBER OF TURNS IN THE DETECTOR LOOPS IN WATER PROOF INK AS INDICATED ON THE DISTRICT 1 STANDARD TRAFFIC SIGNAL DESIGN DETAIL. THE CONTRACTOR SHALL MARK LOOP LOCATIONS ON RECORD DRAWINGS AND PRESENT TO THE ENGINEER AFTER FINAL INSPECTION. LOOPS SHALL BE MARKED BY LANE AND LOOP NUMBER. SEE DETAIL BELOW.
4. ALL LOOP CABLE SHALL BE FASTENED WITH PLASTIC TIE WRAP TO THE HANDHOLE HOOKS.
5. IN ASPHALT PAVEMENT, LOOPS SHOULD BE PLACED IN THE BINDER AND 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.

LOOP LEAD-IN CABLE TAG

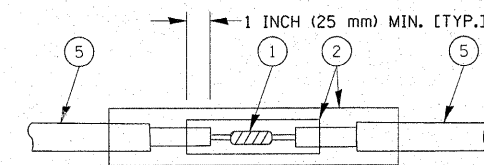


- A. LANE 1 IS THE LANE CLOSEST TO THE CENTERLINE OF THE ROADWAY
- B. LOOP #1 IS THE LOOP IN THE LANE CLOSEST TO THE INTERSECTION.
- C. LABEL LOOP CABLE "IN" OR LOOP CABLE "OUT".
- D. LABEL LOOP CABLE CLOCKWISE OR LOOP CABLE COUNTERCLOCKWISE.

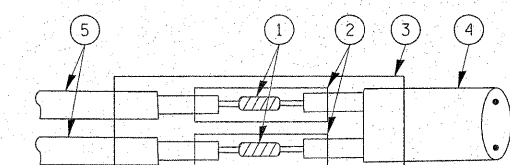


DETECTOR LOOP WIRING SCHEMATIC

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

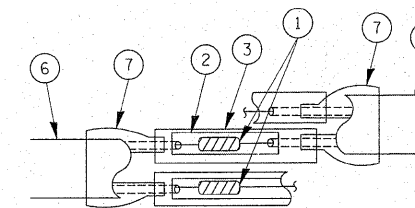


DETAIL "A"
LOOP-TO-LOOP SPLICE

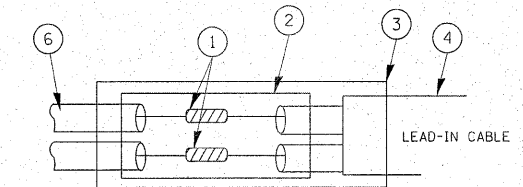


DETAIL "B"
LOOP-TO-CONTROLLER SPLICE

TYPE I LOOP



DETAIL "A"
LOOP-TO-LOOP SPLICE



DETAIL "B"
LOOP-TO-CONTROLLER SPLICE

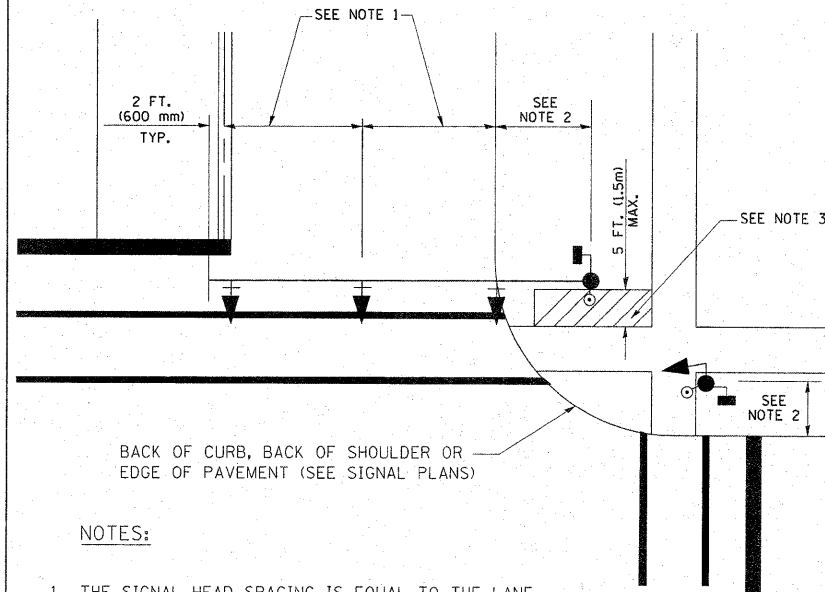
LOOP DETECTOR SPLICE

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

FILE NAME =	USER NAME = steedpa	DESIGNED - DAD	REVISED -	STATE OF ILLINOIS DEPARTMENT OF TRANSPORTATION	DISTRICT ONE STANDARD TRAFFIC SIGNAL DESIGN DETAILS	F.A.U. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
ci:\pw_work\p1dot\stedpa\0159915\Dist1	DRAWN - BCK	CHECKED - DAD	REVISED -			1566	29 R-N-1	COOK	120	100
PLOT SCALE = 50.7684 ' / IN.	DATE - 10-28-09	REVISED -	REVISED -			TS-05		CONTRACT NO. 62377		
PLOT DATE = 2/3/2011	REVISED -	REVISED -	REVISED -			FED. ROAD DIST. NO. 1 ILLINOIS FED. AID PROJECT				
				SCALE: NONE	SHEET NO. 1 OF 6 SHEETS	STA.	TO STA.			

TRAFFIC SIGNAL MAST ARM AND SIGNAL POST

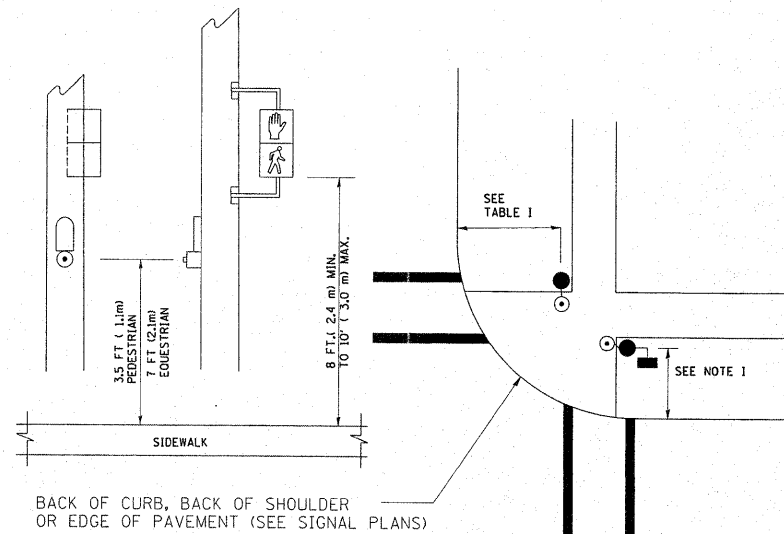
MAST ARM MOUNTED SIGNALS IN EXISTING, PROPOSED OR FUTURE SIDEWALK/BICYCLE PATH AREA. INTERSECTION SHOWN WITH PEDESTRIAN SIGNALS AND PEDESTRIAN PUSHBUTTON DETECTORS.



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."

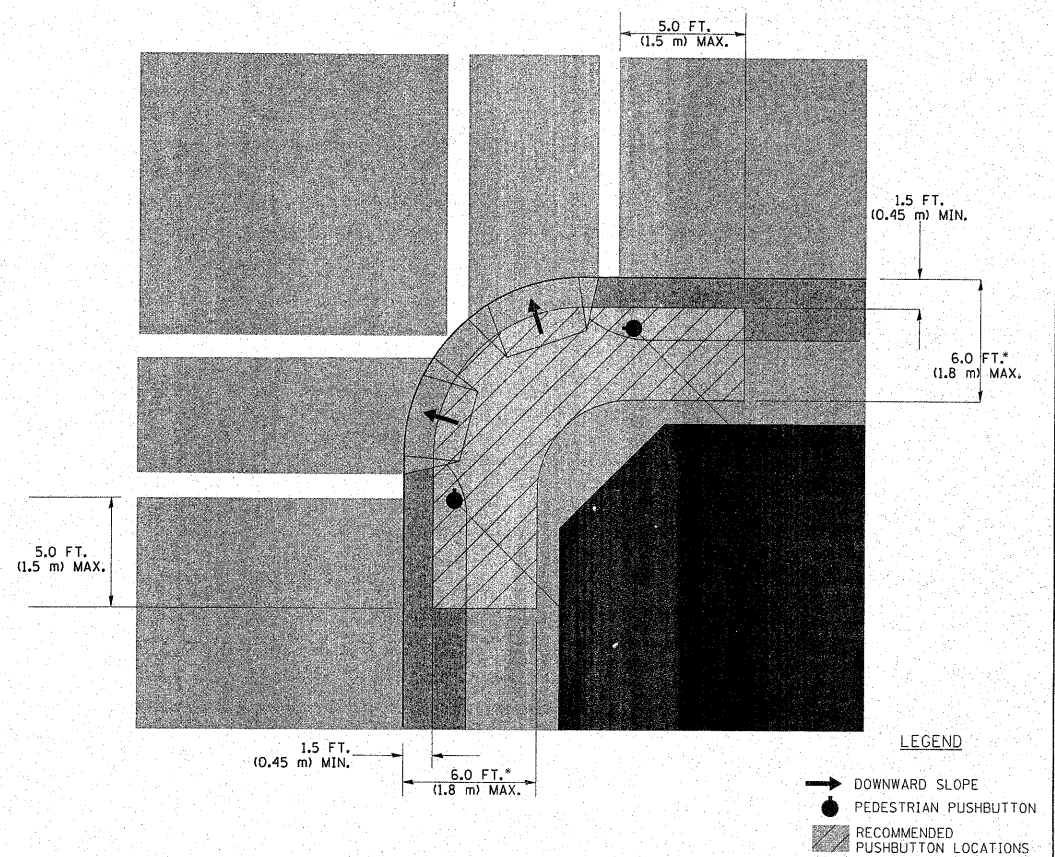
PEDESTRIAN SIGNAL POST AND PEDESTRIAN PUSH BUTTON POST



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



- 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:

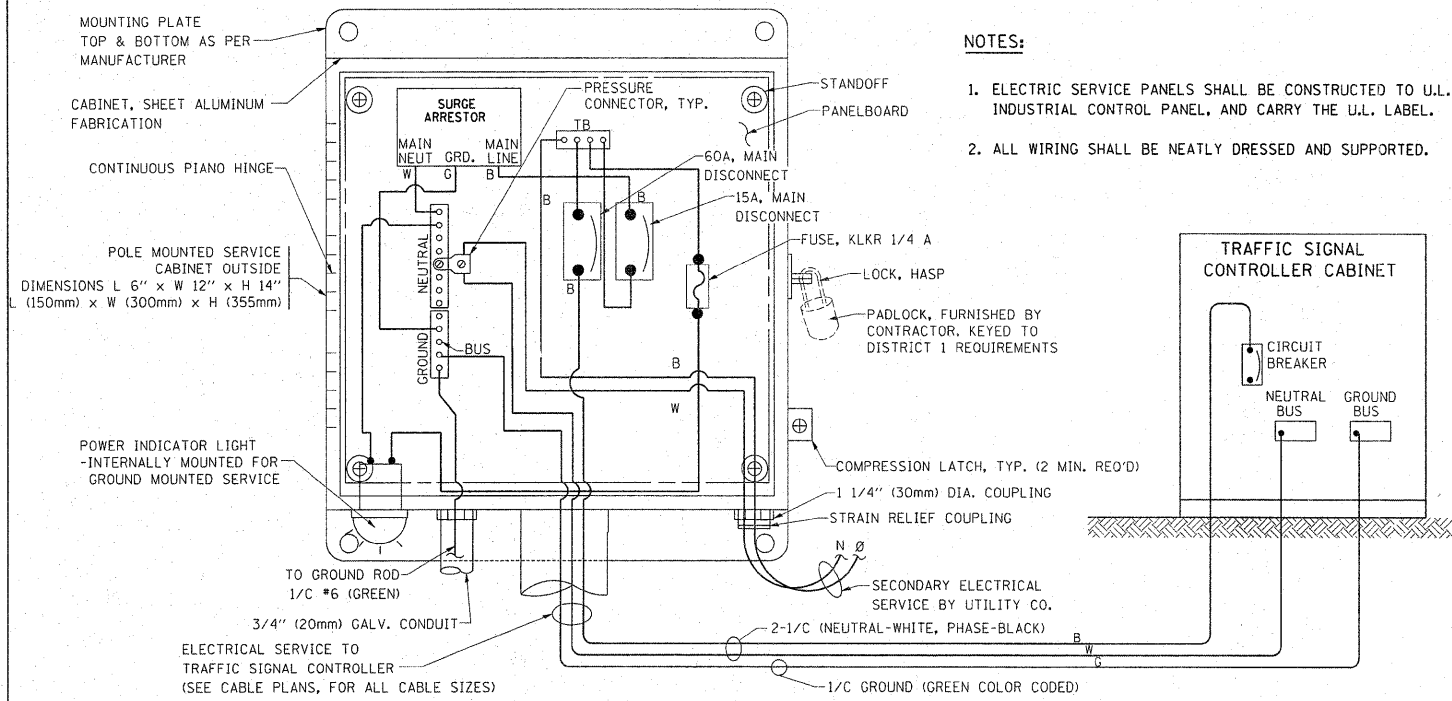
1. PEDESTRIAN SIGNAL HEADS SHALL BE MOUNTED WITH THE BOTTOM OF THE SIGNAL HOUSING INCLUDING BRACKETS NOT LESS THAN 8 FT (2.4 m) OR MORE THAN 10 FT (3 m) ABOVE SIDEWALK LEVEL, AND SHALL BE POSITIONED AND ADJUSTED TO PROVIDE MAXIMUM VISIBILITY AT THE BEGINNING OF THE CONTROLLED CROSSWALK.
2. THE BOTTOM 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

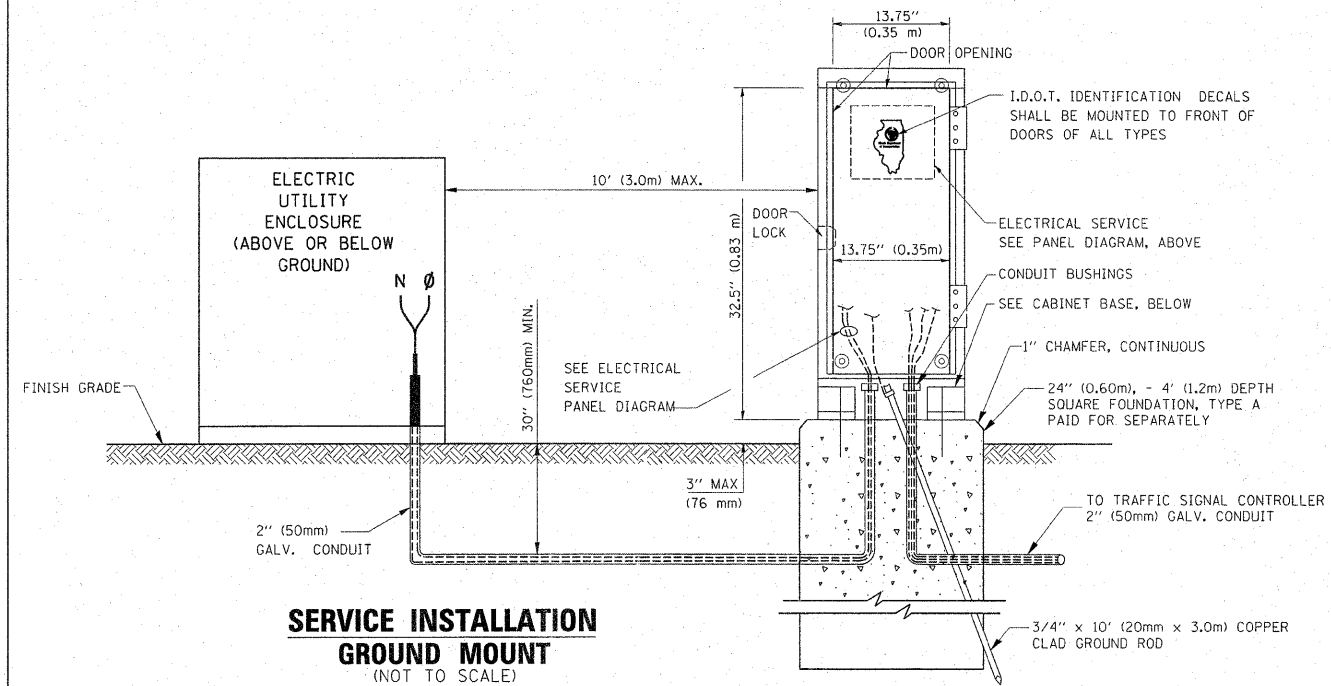
TRAFFIC SIGNAL EQUIPMENT	COMBINATION CONCRETE CURB AND GUTTER (MINIMUM DISTANCE FROM BACK OF CURB TO CENTERLINE OF FOUNDATION)	SHOULDER/NON-CURBED AREA (MINIMUM DISTANCE FROM EDGE OF PAVEMENT TO CENTERLINE OF FOUNDATION)
TRAFFIC SIGNAL MAST ARM POLE	6 FT (1.8m)	SHOULDER WIDTH + 2 FT (0.6m), MINIMUM 10 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:

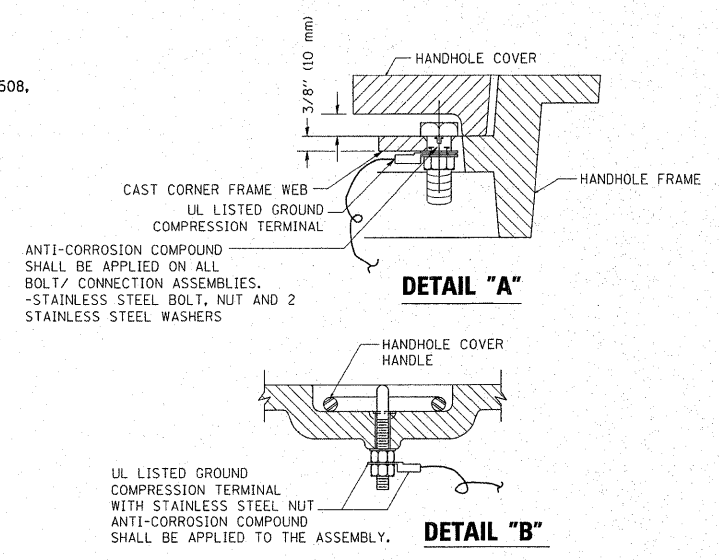
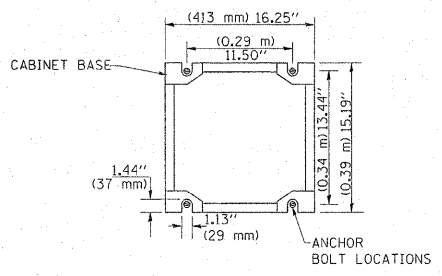
1. CONTACT THE "AREA TRAFFIC SIGNAL MAINTENANCE AND OPERATIONS ENGINEER" FOR ASSISTANCE IN LOCATING THE TRAFFIC SIGNAL EQUIPMENT WHEN THERE ARE CONFLICTS WITH DITCHES OR THE MINIMUM OFFSET DISTANCES CANNOT BE MET.
2. MINIMUM DISTANCE FROM THE BACK OF CURB TO THE ROADWAY SIDE OF THE FOUNDATION.
3. MINIMUM 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 EFFECT 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.



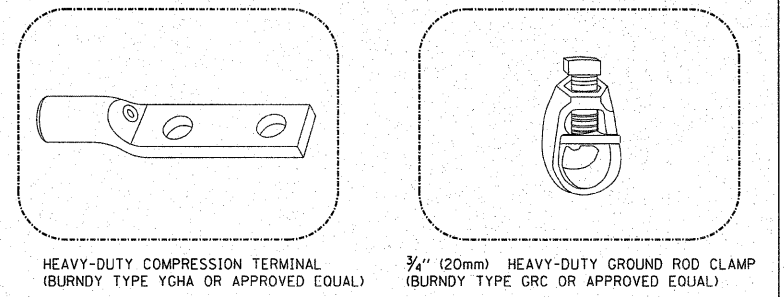
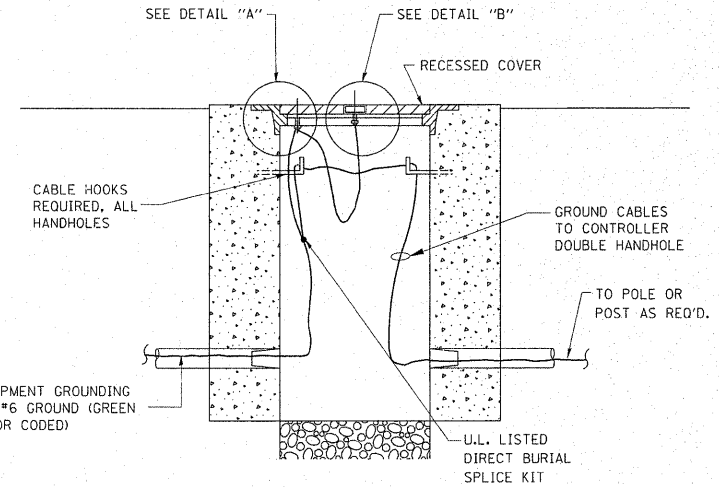
ELECTRICAL SERVICE - PANEL DIAGRAM (TYPICAL FOR POLE AND GROUND MOUNTED SERVICE)
SERVICE INSTALLATION POLE MOUNT (SHOWN)
 (NOT TO SCALE)



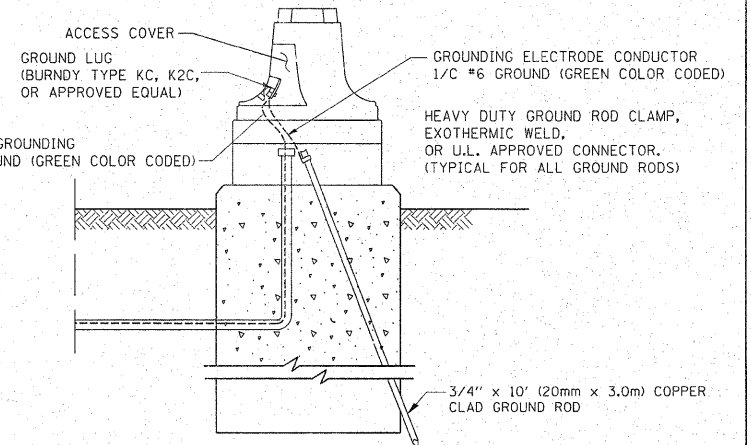
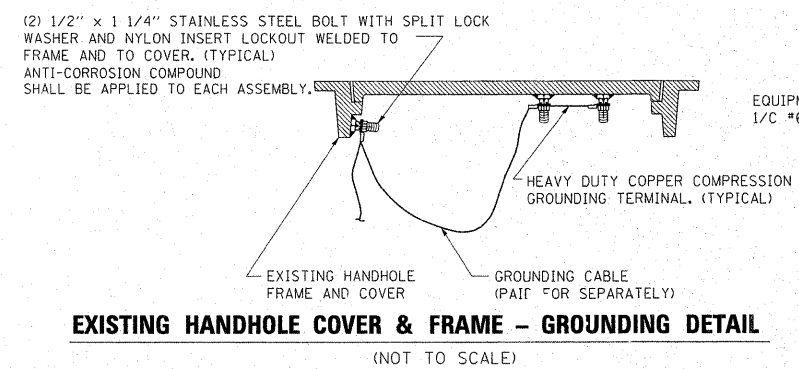
CABINET - BASE BOLT PATTERN
 (NOT TO SCALE)

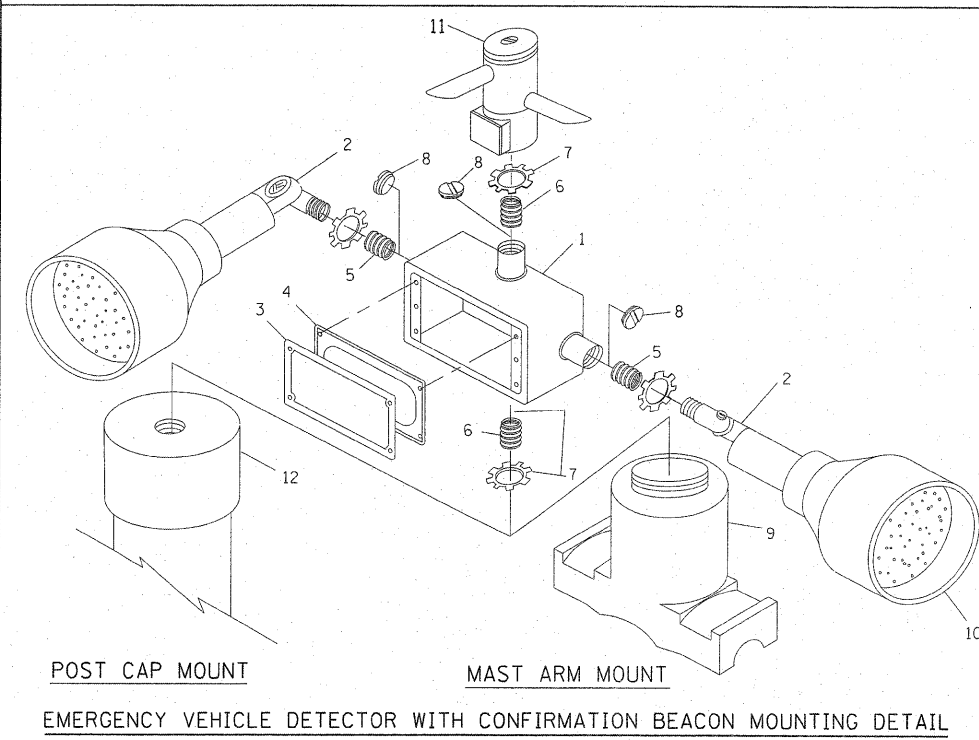
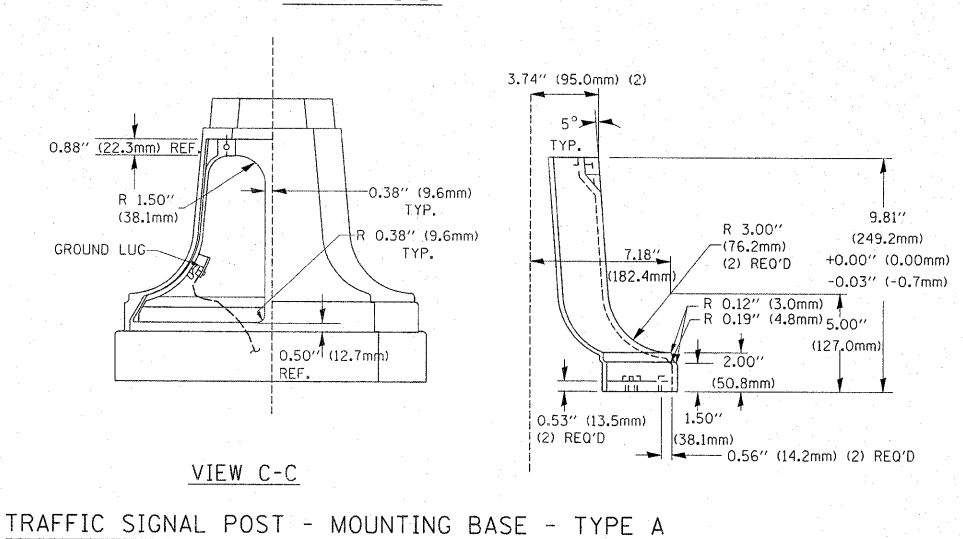
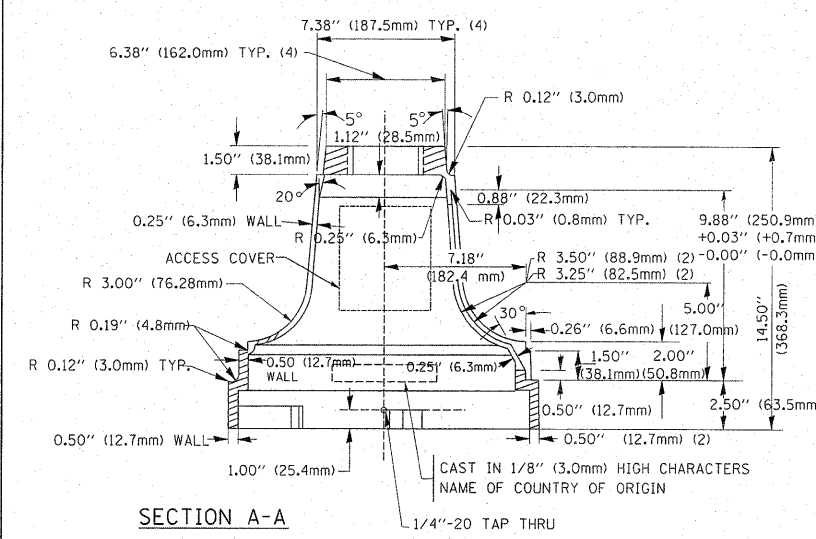
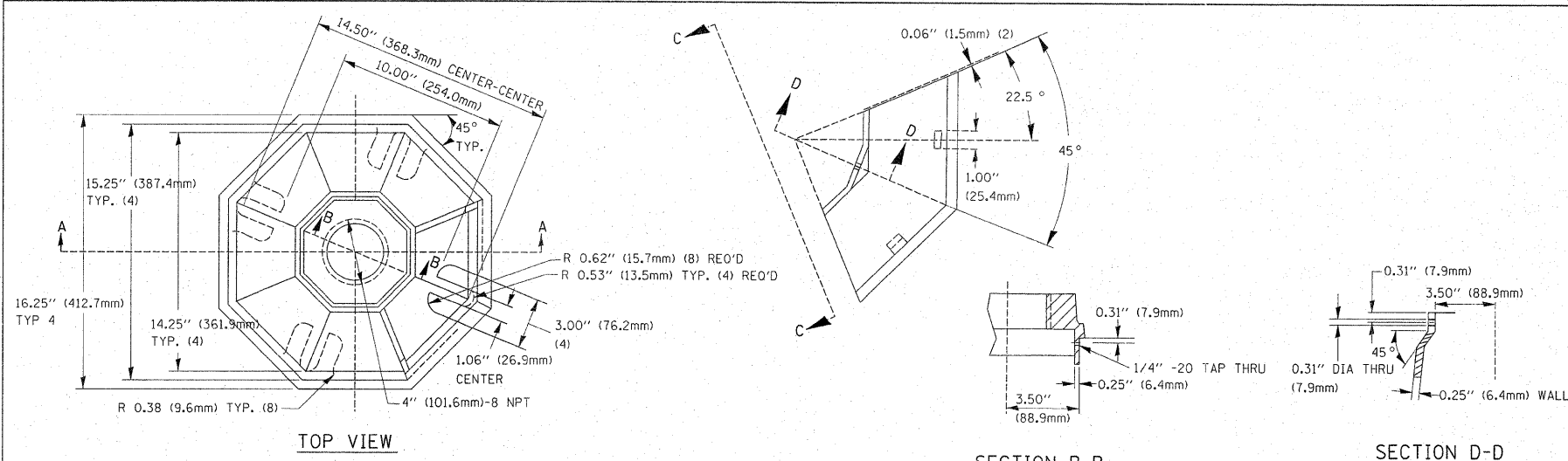


- NOTES:**
- GROUNDING SYSTEM**
- THE GROUNDING SYSTEM SHALL CONSIST OF AN INSULATED CONDUCTOR TYPE XLP, NO. 6 A.W.G., STRANDED COPPER TO BE INSTALLED IN RACEWAYS. THE GROUNDING CABLE SHALL BE INSTALLED IN A CONTINUOUS MANNER AS SHOWN ON THE CABLE PLAN PROVIDED. ALL GROUNDING CONDUCTORS SHALL BE BONDED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



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



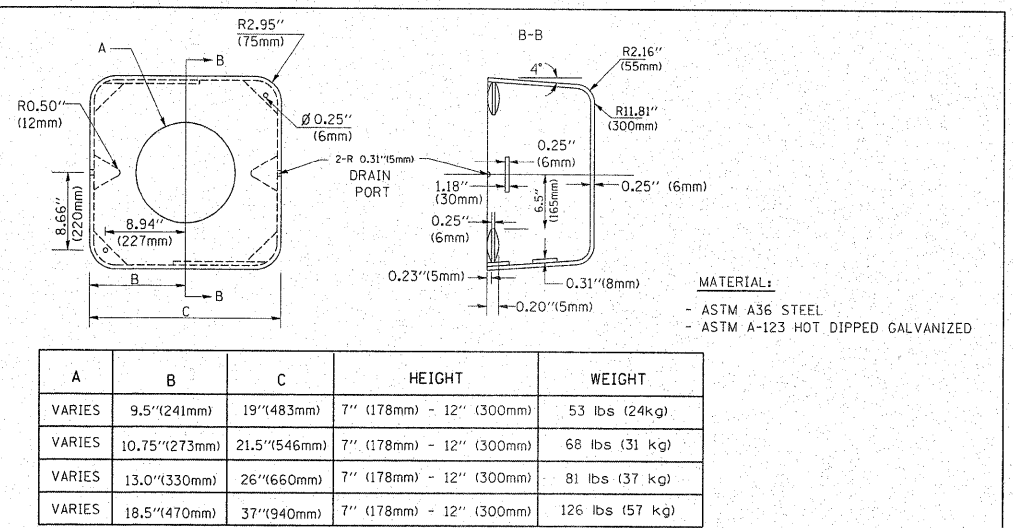


ITEM NO.	IDENTIFICATION
1	OUTLET BOX- GALV, 21 CU.IN. (0.000344 CU-M)
2	LAMP HOLDER AND COVER
3	OUTLET BOX COVER
4	RUBBER COVER GASKET
5	REDUCING BUSHING
6	3/4\" (19 mm) CLOSE NIPPLE
7	3/4\" (19 mm) LOCKNUT
8	3/4\" (19 mm) HOLE PLUG
9	SADDLE BRACKET - GALV.
10	6 WATT PAR 38 LED FLOOD LAMP
11	DETECTOR 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.

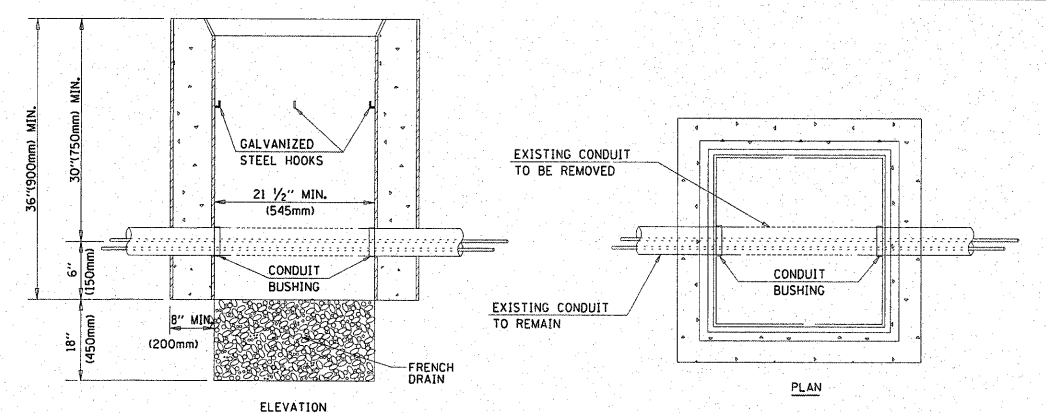
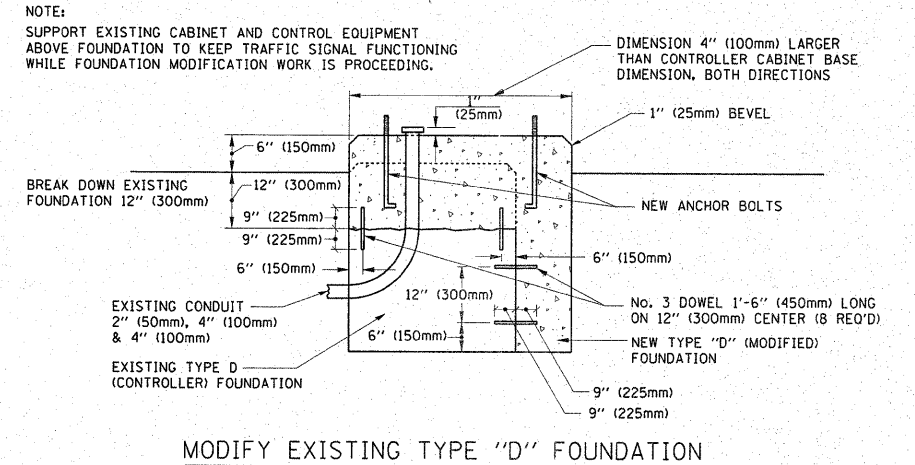
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PLOT SCALE = 58.7684 ' / IN.	CHECKED - DAD	REVISED -	REVISED -
PLOT DATE = 2/3/2011	DATE - 10-28-09	REVISED -	REVISED -

**STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION**



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)

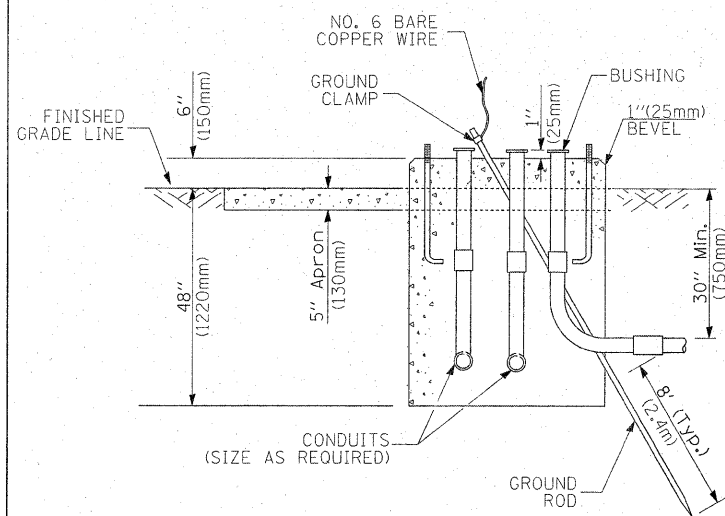
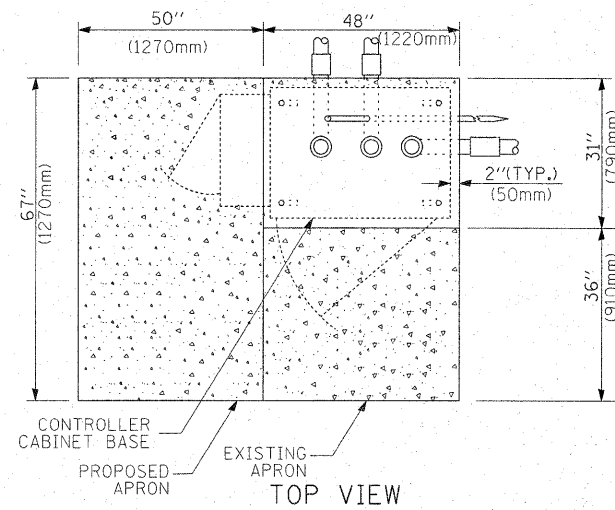
- NOTES:**
- DIMENSION "A" IS EQUAL TO THE DIAMETER OF THE MAST ARM POLE AT THE TOP OF THE SHROUD. THE SHROUD SHALL BE TIGHT TO THE MAST ARM POLE.
 - THE SUPPLIER SHALL VERIFY THE ABOVE DIMENSIONS BASED ON MAST ARM REQUIREMENTS.
 - THE HEIGHT OF THE SHROUD SHALL COVER THE ANCHOR BOLTS, NUTS AND MAST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



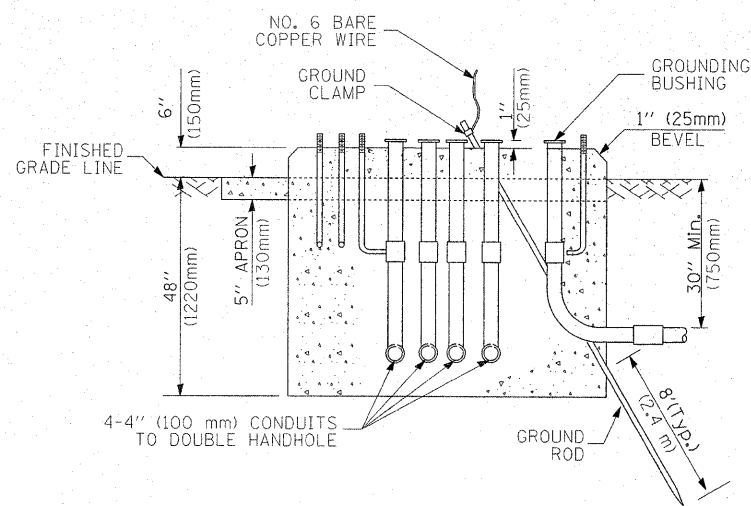
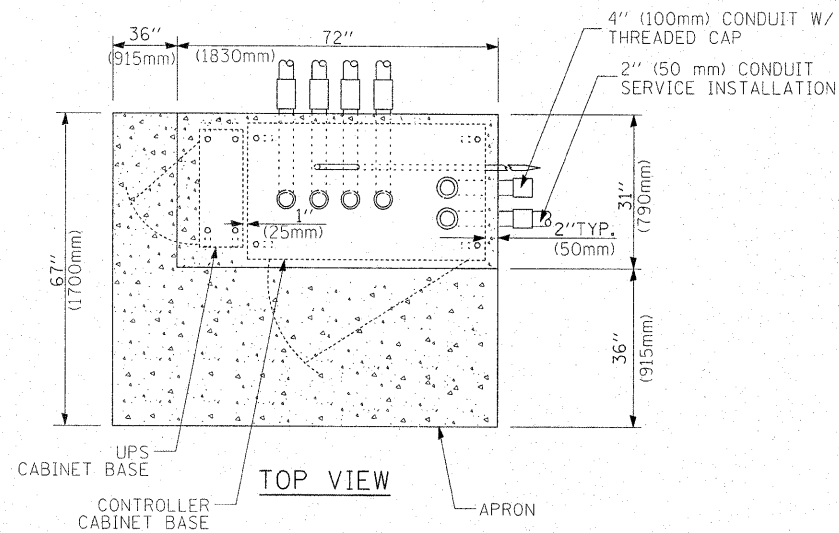
- NOTES:**
- HANDHOLE CONSTRUCTED PER STATE STANDARD 814001.
 - REMOVAL OF THE EXISTING CONDUIT FROM THE HANDHOLE AND THE INSTALLATION OF THE CONDUIT BUSHINGS SHALL BE INCIDENTAL TO THE HANDHOLE.

DISTRICT ONE		F.A.U. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
STANDARD TRAFFIC SIGNAL DESIGN DETAILS		1566	29 R-N-1	COOK	120	103
SCALE: NONE		SHEET NO. 4 OF 6 SHEETS		STA.	TO STA.	
		FED. ROAD DIST. NO. 1		ILLINOIS FED. AID PROJECT		

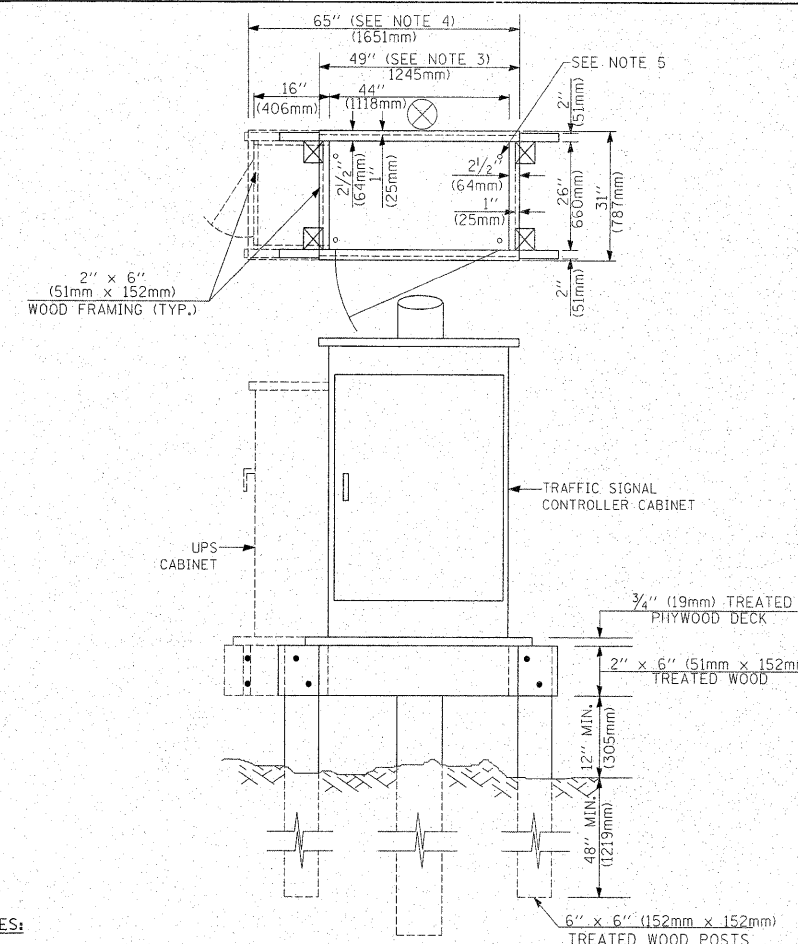
HANDHOLE TO INTERCEPT EXISTING CONDUIT



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



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



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	FOUNDATION DEPTH	FOUNDATION DIAMETER	SPIRAL DIAMETER	QUANTITY OF REBARS	SIZE OF REBARS
Less than 30' (9.1 m)	10'-0" (3.0 m)	30" (750mm)	24" (600mm)	8	6(19)
Greater than or equal to 30' (9.1 m) and less than 40' (12.2 m)	13'-6" (4.1 m)	30" (750mm)	24" (600mm)	8	6(19)
Greater than or equal to 40' (12.2 m) and less than 50' (15.2 m)	11'-0" (3.4 m)	36" (900mm)	30" (750mm)	12	7(22)
Greater than or equal to 50' (15.2 m) and up to 55' (16.8 m)	13'-0" (4.0 m)	36" (900mm)	30" (750mm)	12	7(22)
Greater than or equal to 55' (16.8 m) and up to 56' (16.8 m)	15'-0" (4.6 m)	36" (900mm)	30" (750mm)	12	7(22)
Greater than or equal to 56' (16.8 m) and less than 65' (19.8 m)	21'-0" (6.4 m)	42" (1060mm)	36" (900mm)	16	8(25)
Greater than or equal to 65' (19.8 m) and up 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 (OU) > 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

TRAFFIC SIGNAL LEGEND

ITEM	REMOVAL	EXISTING	PROPOSED	ITEM	REMOVAL	EXISTING	PROPOSED	ITEM	REMOVAL	EXISTING	PROPOSED																		
CONTROLLER CABINET				EMERGENCY VEHICLE LIGHT DETECTOR				ELECTRIC CABLE IN CONDUIT, TRACER, NO. 14 1/C, UNLESS NOTED OTHERWISE																					
RAILROAD CONTROL CABINET				CONFIRMATION BEACON				COAXIAL CABLE																					
COMMUNICATIONS CABINET				HANDHOLE				VENDOR CABLE FOR CAMERA																					
MASTER CONTROLLER				HEAVY DUTY HANDHOLE				COPPER INTERCONNECT CABLE, NO. 18 3 PAIR TWISTED, SHIELDED																					
MASTER MASTER CONTROLLER				DOUBLE HANDHOLE				FIBER OPTIC CABLE NO. 62.5/125, MM12F																					
UNINTERRUPTIBLE POWER SUPPLY				JUNCTION BOX				FIBER OPTIC CABLE NO. 62.5/125, MM12F SM12F																					
SERVICE INSTALLATION, (P) POLE OR (G) GROUND MOUNT				GALVANIZED STEEL CONDUIT IN TRENCH (T) OR PUSHED (P)				FIBER OPTIC CABLE NO. 62.5/125, MM12F (NUMBER OF FIBERS & TYPE TO BE NOTED ON PLANS)																					
TELEPHONE CONNECTION (P) POLE OR (G) GROUND MOUNT				TEMPORARY SPAN WIRE, TETHER WIRE, AND CABLE				GROUND ROD AT (C) CONTROLLER, (H) HANDHOLE, (P) POST, (M) MAST ARM, OR (S) SERVICE																					
STEEL MAST ARM ASSEMBLY AND POLE				COMMON TRENCH				CONTROLLER CABINET AND FOUNDATION TO BE REMOVED																					
ALUMINUM MAST ARM ASSEMBLY AND POLE				COILABLE NONMETALLIC CONDUIT (EMPTY)				STEEL MAST ARM POLE AND FOUNDATION TO BE REMOVED																					
STEEL COMBINATION MAST ARM ASSEMBLY AND POLE WITH LUMINAIRE				SYSTEM ITEM				ALUMINUM MAST ARM POLE AND FOUNDATION TO BE REMOVED																					
STEEL COMBINATION MAST ARM ASSEMBLY AND POLE WITH PTZ CAMERA				INTERSECTION ITEM				STEEL COMBINATION MAST ARM ASSEMBLY AND POLE WITH LUMINAIRE AND FOUNDATION TO BE REMOVED																					
SIGNAL POST				REMOVE ITEM				SIGNAL POST AND FOUNDATION TO BE REMOVED																					
TEMPORARY WOOD POLE (CLASS 5 OR BETTER) 45 FOOT (13.7m) MINIMUM				RELOCATE ITEM				INTERSECTION & SAMPLING (SYSTEM) DETECTOR																					
GUY WIRE				ABANDON ITEM				SAMPLING (SYSTEM) DETECTOR																					
SIGNAL HEAD				12" (300mm) TRAFFIC SIGNAL SECTION				EXISTING INTERSECTION LOOP DETECTOR																					
SIGNAL HEAD CONSTRUCTION STAGES (NUMBERS INDICATE THE CONSTRUCTION STAGE)				12" (300mm) RED WITH 8" (200mm) YELLOW AND GREEN TRAFFIC SIGNAL FACE				PROPOSED INTERSECTION AND SAMPLING (SYSTEM) DETECTOR																					
SIGNAL HEAD WITH BACKPLATE				SIGNAL FACE				EXISTING PREFORMED INTERSECTION LOOP DETECTOR																					
SIGNAL HEAD OPTICALLY PROGRAMMED				SIGNAL FACE WITH BACKPLATE, "P" INDICATES PROGRAMMED HEAD				PROPOSED INTERSECTION AND SAMPLING (SYSTEM) DETECTOR																					
FLASHER INSTALLATION (S DENOTES SOLAR POWER)				12" (300mm) PEDESTRIAN SIGNAL HEAD WALK/DON'T WALK SYMBOL				PREFORMED INTERSECTION AND SAMPLING (SYSTEM) DETECTOR																					
PEDESTRIAN SIGNAL HEAD				12" (300mm) PEDESTRIAN SIGNAL HEAD INTERNATIONAL SYMBOL, OUTLINED				PREFORMED SAMPLING (SYSTEM) DETECTOR																					
PEDESTRIAN PUSHBUTTON DETECTOR				12" (300mm) PEDESTRIAN SIGNAL HEAD INTERNATIONAL SYMBOL, SOLID				<h2 style="margin: 0;">RAILROAD SYMBOLS</h2> <table style="width: 100%; border: none;"> <thead> <tr> <th style="width: 50%;"></th> <th style="width: 25%;">EXISTING</th> <th style="width: 25%;">PROPOSED</th> </tr> </thead> <tbody> <tr> <td>RAILROAD CONTROL CABINET</td> <td></td> <td></td> </tr> <tr> <td>RAILROAD CANTILEVER MAST ARM</td> <td></td> <td></td> </tr> <tr> <td>FLASHING SIGNAL</td> <td></td> <td></td> </tr> <tr> <td>CROSSING GATE</td> <td></td> <td></td> </tr> <tr> <td>CROSSBUCK</td> <td></td> <td></td> </tr> </tbody> </table>					EXISTING	PROPOSED	RAILROAD CONTROL CABINET			RAILROAD CANTILEVER MAST ARM			FLASHING SIGNAL			CROSSING GATE			CROSSBUCK		
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RAILROAD CONTROL CABINET																													
RAILROAD CANTILEVER MAST ARM																													
FLASHING SIGNAL																													
CROSSING GATE																													
CROSSBUCK																													
ACCESSIBLE PEDESTRIAN PUSHBUTTON DETECTOR				PEDESTRIAN SIGNAL HEAD, INTERNATIONAL SYMBOL, WITH COUNTDOWN TIMER																									
ILLUMINATED SIGN "NO LEFT TURN"				RADIO INTERCONNECT																									
ILLUMINATED SIGN "NO RIGHT TURN"				RADIO REPEATER																									
DETECTOR LOOP, TYPE I				DENOTES NUMBER OF CONDUCTORS, ELECTRIC CABLE NO. 14, UNLESS NOTED OTHERWISE, ALL DETECTOR LOOP CABLE TO BE SHIELDED																									
PREFORMED DETECTOR LOOP				GROUND CABLE IN CONDUIT NO. 6 SOLID COPPER (GREEN)																									
MICROWAVE VEHICLE SENSOR																													
VIDEO DETECTION CAMERA																													
VIDEO DETECTION ZONE																													
PAN, TILT, ZOOM CAMERA																													
WIRELESS DETECTOR SENSOR																													
WIRELESS ACCESS POINT																													

EMERGENCY VEHICLE PREEMPTION SEQUENCE OF OPERATION

CHANGE FROM NORMAL SEQUENCE OF OPERATION INTERVAL NUMBER																											PREEMPTOR NUMBER 3	PREEMPTOR NUMBER 4	CLEAR TO NORMAL SEQUENCE							
	1	5			8			8			11			11			14			18			18			22				22			26			26
EMERGENCY VEHICLE PREEMPTION SEQUENCE OF OPERATION INTERVAL NUMBER	1A	1B	1C	1D	1E	1F	1G	1H	1J	1K	1L	1M	1N	1P	1Q	1R	1S	1T	1U	1V	1W	1X	1Y	1Z	1AA	1BB	1CC	1DD	1EE	1FF						
CHANGE TO EMERGENCY VEHICLE PREEMPTION SEQUENCE OF OPERATION INTERVAL NUMBER	2 OR 3	1C	2	1E	1F	3	1H	2	1K	1L	3	2	1P	1Q	3	2 OR 3	1T	1U	2	1W	3	1Y	1Z	2	1BB	3	1DD	1EE	2	3						
MAIN STREET END MAST ARM AND FAR LEFT SIGNALS E/B	R	R	R	R	R	R	G	G	G	Y	R	G	G	Y	R	R	R	R	R	R	R	R	R	R	R	R	R	R	R	R	R	G	R			
MAIN STREET FAR RIGHT SIGNAL E/B	R	R	R	R	R	R	G	G	G	Y	R	G	G	Y	R	R	R	R	R	R	R	R	R	R	R	R	R	R	R	R	R	G	R			
MAIN STREET END MAST ARM AND FAR LEFT SIGNALS W/B	R	G	G	G	Y	R	R	R	R	R	R	G	G	Y	R	R	R	R	R	R	R	R	R	R	R	R	R	R	R	R	R	R	G	R		
MAIN STREET FAR RIGHT SIGNAL W/B	R	G	G	G	Y	R	R	R	R	R	R	G	G	Y	R	R	R	R	R	R	R	R	R	R	R	R	R	R	R	R	R	R	G	R		
CROSS STREET END MAST ARM AND FAR LEFT SIGNALS S/B	R	R	R	R	R	R	R	R	R	R	R	R	R	R	R	R	R	R	R	R	R	R	R	R	R	R	R	R	R	R	R	R	R	G	R	
CROSS STREET FAR RIGHT SIGNAL S/B	R	R	R	R	R	R	R	R	R	R	R	R	R	R	R	R	R	R	R	R	R	R	R	R	R	R	R	R	R	R	R	R	R	G	R	
CROSS STREET END MAST ARM AND FAR LEFT SIGNALS N/B	R	R	R	R	R	R	R	R	R	R	R	R	R	R	R	R	R	R	R	R	R	R	R	R	R	R	R	R	R	R	R	R	R	R	G	R
CROSS STREET FAR RIGHT SIGNAL N/B	R	R	R	R	R	R	R	R	R	R	R	R	R	R	R	R	R	R	R	R	R	R	R	R	R	R	R	R	R	R	R	R	R	R	G	R
PEDESTRIAN SIGNALS CROSSING CROSS STREET ON NORTHSIDE OF MAIN STREET	H	FH	H	FH	H	H	H	H	H	H	H	FH	FH	H	H	H	H	H	H	H	H	H	H	H	H	H	H	H	H	H	H	H	H	H	H	
PEDESTRIAN SIGNALS CROSSING CROSS STREET ON SOUTHSIDE OF MAIN STREET	H	H	H	H	H	H	FH	H	FH	H	H	FH	FH	H	H	H	H	H	H	H	H	H	H	H	H	H	H	H	H	H	H	H	H	H	H	
PEDESTRIAN SIGNALS CROSSING MAIN STREET ON EASTSIDE OF CROSS STREET	H	H	H	H	H	H	H	H	H	H	H	H	H	H	H	H	FH	H	H	FH	H	H	H	H	H	H	H	FH	H	H	FH	H	H	H	H	
PEDESTRIAN SIGNALS CROSSING MAIN STREET ON WESTSIDE OF CROSS STREET	H	H	H	H	H	H	H	H	H	H	H	H	H	H	H	H	H	H	H	H	H	FH	H	H	FH	H	FH	H	H	FH	H	H	H	H	H	

◇ EMERGENCY VEHICLE SEQUENCE SHALL PROVIDE THE PROPER CLEARANCE INTERVAL TO RESUME THE NORMAL SEQUENCE OF OPERATION OR PROPER CLEARANCE INTERVAL TO DISPLAY A DIFFERENT EMERGENCY INTERVAL AFTER EMERGENCY VEHICLE 2 OR 3 IS TERMINATED.

PROPOSED SEQUENCE OF OPERATION

MOVEMENT	1 + 5				1 + 6			2 + 5			2 + 6			3 + 7			3 + 8			4 + 7			4 + 8			F L A S H							
PHASE	1	2	3	4	5	6	7	8	9	10	11	12	13A	13B	14	15	16	17	18	19	20A	20B	21	22	23		24A	24B	25	26	27	28A	28B
CHANGE TO		1+6	2+5	2+6	ϕ	ϕ	2+6	ϕ	ϕ	2+6					3+7 3+8 4+7 4+8	1+5 1+6 2+5 2+6 4+8	3+8	4+7	ϕ	ϕ	1+5 1+6 2+5 2+6	4+8	ϕ	ϕ	1+5 1+6 2+5 2+6	4+8				1+5 1+6 2+5 2+6			
MAIN STREET END MAST ARM AND FAR LEFT SIGNALS E/B	←G	R	←G	←Y	R	R	R	←G	←G	←Y	G	G	Y	R	R	R	R	R	R	R	R	R	R	R	R	R	R	R	R	R	R	R	R
MAIN STREET FAR RIGHT SIGNAL E/B	R	R	R	R	R	R	R	G	G	G	G	G	Y	R	R	R	R	R	R	R	R	R	R	R	R	R	R	R	R	R	R	R	R
MAIN STREET END MAST ARM AND FAR LEFT SIGNALS W/B	←G	←G	←Y	←Y	←G	←G	←Y	R	R	R	G	G	Y	R	R	R	R	R	R	R	R	R	R	R	R	R	R	R	R	R	R	R	R
MAIN STREET FAR RIGHT SIGNAL W/B	R	R	R	R	G	G	G	R	R	R	G	G	Y	R	R	R	R	R	R	R	R	R	R	R	R	R	R	R	R	R	R	R	R
CROSS STREET END MAST ARM AND FAR LEFT SIGNALS S/B	R	R	R	R	R	R	R	R	R	R	R	R	R	R	R	R	R	R	R	R	R	R	R	R	R	R	R	R	R	R	R	R	R
CROSS STREET FAR RIGHT SIGNAL S/B	R	R	R	R	R	R	R	R	R	R	R	R	R	R	R	R	R	R	R	R	R	R	R	R	R	R	R	R	R	R	R	R	R
CROSS STREET END MAST ARM AND FAR LEFT SIGNALS N/B	R	R	R	R	R	R	R	R	R	R	R	R	R	R	R	R	R	R	R	R	R	R	R	R	R	R	R	R	R	R	R	R	R
CROSS STREET FAR RIGHT SIGNAL N/B	R	R	R	R	R	R	R	R	R	R	R	R	R	R	R	R	R	R	R	R	R	R	R	R	R	R	R	R	R	R	R	R	R
PEDESTRIAN SIGNALS CROSSING CROSS STREET ON NORTHSIDE OF MAIN STREET	H	H	H	H	*P	**FH	H	H	H	H	*P	**FH	H	H	H	H	H	H	H	H	H	H	H	H	H	H	H	H	H	H	H	H	H
PEDESTRIAN SIGNALS CROSSING CROSS STREET ON SOUTHSIDE OF MAIN STREET	H	H	H	H	H	H	H	*P	**FH	H	*P	**FH	H	H	H	H	H	H	H	H	H	H	H	H	H	H	H	H	H	H	H	H	H
PEDESTRIAN SIGNALS CROSSING MAIN STREET ON EASTSIDE OF CROSS STREET	H	H	H	H	H	H	H	H	H	H	H	H	H	H	H	H	H	H	H	H	H	H	H	H	H	H	H	H	H	*P	**FH	H	H
PEDESTRIAN SIGNALS CROSSING MAIN STREET ON WESTSIDE OF CROSS STREET	H	H	H	H	H	H	H	H	H	H	H	H	H	H	H	H	H	H	H	H	H	H	H	H	H	H	H	H	H	*P	**FH	H	H

- TO APPEAR ONLY UPON PUSHBUTTON ACTIVATION
- ** FLASHING "FH" IS TO TERMINATE AT THE COMPLETION OF THE PEDESTRIAN INTERVAL CLEARANCE.
- ⊕ THIS "FH" OR FLASHING "FH" INTERVAL MAY FINISH TIMING IN THE BIDIRECTIONAL STRAIGHT THROUGH MOVEMENT IF THE LEFT ARROW TIME IS NOT SUFFICIENT TO COMPLETE "FH" OR FLASHING "FH" INTERVALS. "FH" AND FLASHING "FH" TIMINGS TO BE SET ONLY ON PHASES WHERE "FH" AND FLASHING "FH" ARE INDICATED IN THE SEQUENCE OF OPERATION.

P = ILLUMINATED PERSON = WALK
 FH = ILLUMINATED FLASHING HAND = FLASHING DON'T WALK
 H = ILLUMINATED SOLID HAND = DON'T WALK

PHASE 2+6 SHALL BE PLACED ON RECALL.

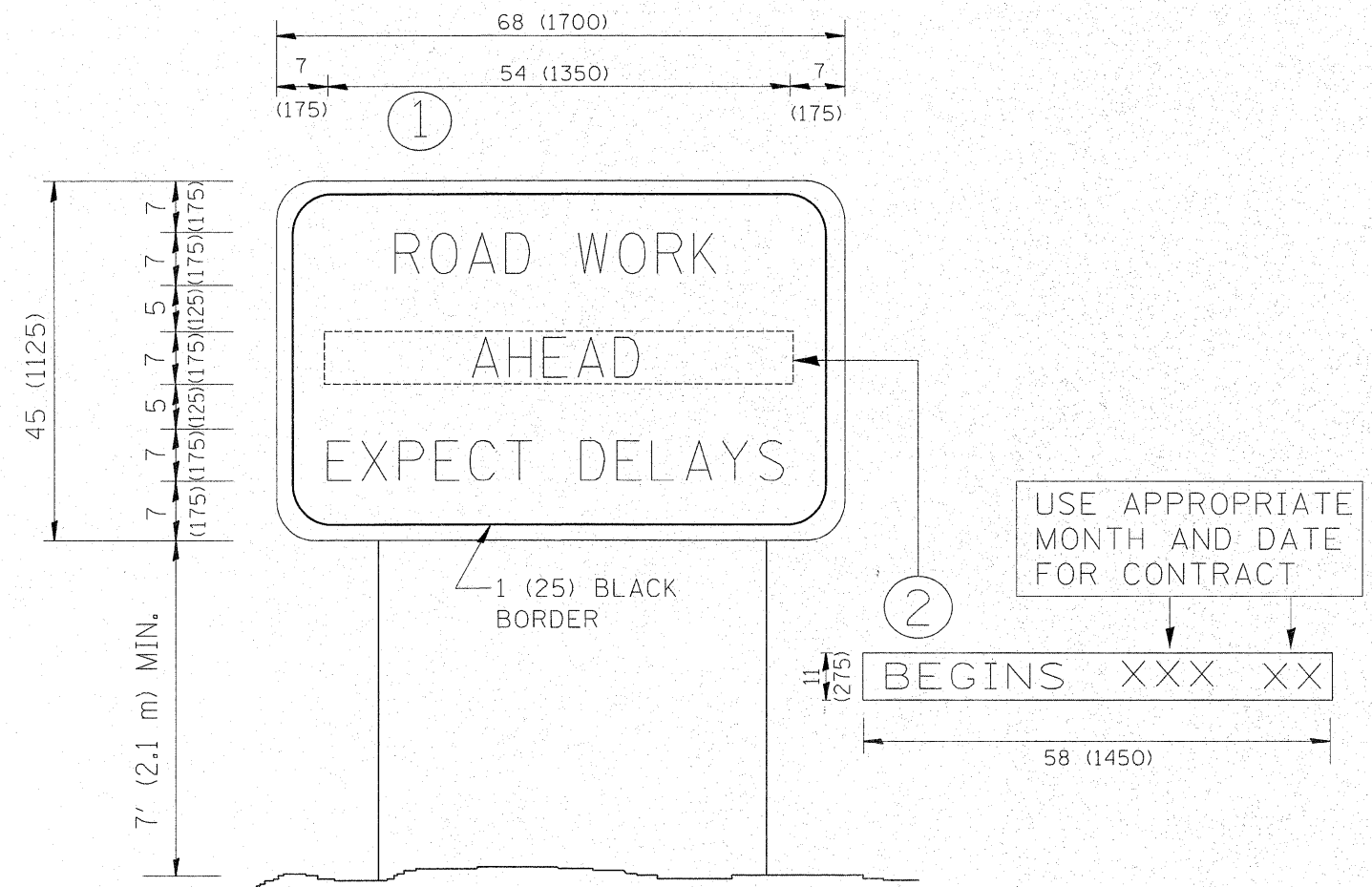
NLT = "NO LEFT TURN" OR

NRT = "NO RIGHT TURN" OR

PROPOSED RAILROAD PREEMPTION SEQUENCE OF OPERATION

	1	5	8	11	14	18	22	26	PREEMPTOR NUMBER 3	PREEMPTOR NUMBER 4	PREEMPTOR NUMBER 2												
CHANGE FROM NORMAL SEQUENCE OF OPERATION INTERVAL NUMBER	1	5	8	11	14	18	22	26															
CHANGE FROM EMERGENCY VEHICLE PREEMPTION SEQUENCE OF OPERATION INTERVAL NUMBER									2	3													
RAILROAD PREEMPTION SEQUENCE OF OPERATION INTERVAL NUMBER	1A	1B	1C	1D	1E	1F	1G	1H	1J	1K	1L	1M	1N	1P	1Q	1R	1S	2	3	4	5	CLEAR TO NORMAL SEQUENCE	
CHANGE TO RAILROAD PREEMPTION SEQUENCE OF OPERATION INTERVAL NUMBER	2	1C	2	1E	2	1G	2	2	1K	2	2	1N	2	1Q	2	1S	2	3	4	5			
MAIN STREET END MAST ARM AND FAR LEFT SIGNALS E/B	←Y	Y	R	R	R	Y	R	R	R	R	R	R	R	R	Y	R	R	R	R	R	R	△	
MAIN STREET FAR RIGHT SIGNAL E/B	R	Y	R	R	R	Y	R	R	R	R	R	R	R	R	Y	R	R	R	R	R	R	△	
MAIN STREET END MAST ARM AND FAR LEFT SIGNALS W/B	←Y	R	R	Y	R	Y	R	R	R	R	R	R	R	R	Y	R	R	R	R	R	R	△	
MAIN STREET FAR RIGHT SIGNAL W/B	R	R	R	Y	R	Y	R	R	R	R	R	R	R	R	Y	R	R	R	R	R	R	△	
CROSS STREET END MAST ARM AND FAR LEFT SIGNALS S/B	R	R	R	R	R	R	R	R	←G	R	R	←G	G	G	R	R	G	G	←G	Y	R	R	△
CROSS STREET FAR RIGHT SIGNAL S/B	R	R	R	R	R	R	R	R	R	R	R	G	G	G	R	R	G	G	G	Y	R	R	△
CROSS STREET END MAST ARM AND FAR LEFT SIGNALS N/B	R	R	R	R	R	R	R	R	←Y	Y	R	R	Y	R	R	R	Y	R	R	R	R	△	
CROSS STREET FAR RIGHT SIGNAL N/B	R	R	R	R	R	R	R	R	Y	R	R	Y	R	R	R	R	Y	R	R	R	R	△	
PEDESTRIAN SIGNALS CROSSING CROSS STREET ON NORTHSIDE OF MAIN STREET	H	FH	H	H	H	FH	H	H	H	H	H	H	H	H	H	H	H	H	H	H	H	△	
PEDESTRIAN SIGNALS CROSSING CROSS STREET ON SOUTHSIDE OF MAIN STREET	H	H	H	FH	H	FH	H	H	H	H	H	H	H	H	H	H	H	H	H	H	H	△	
PEDESTRIAN SIGNALS CROSSING MAIN STREET ON EASTSIDE OF CROSS STREET	H	H	H	H	H	H	H	H	FH	H	H	FH	H	H	H	H	H	H	H	H	H	△	
PEDESTRIAN SIGNALS CROSSING MAIN STREET ON WESTSIDE OF CROSS STREET	H	H	H	H	H	H	H	H	H	FH	FH	H	H	H	H	H	H	H	H	H	H	△	
INTERNALLY ILLUMINATED NRT SIGNS	NRT	NRT	NRT	NRT	NRT	NRT	NRT	NRT	NRT	NRT	NRT	NRT	NRT	NRT	NRT	NRT	NRT	NRT	NRT	NRT	NRT	△	
INTERNALLY ILLUMINATED NLT SIGNS	NLT	NLT	NLT	NLT	NLT	NLT	NLT	NLT	NLT	NLT	NLT	NLT	NLT	NLT	NLT	NLT	NLT	NLT	NLT	NLT	NLT	△	

△ RAILROAD PREEMPTION SEQUENCE SHALL PROVIDE THE PROPER CLEARANCE INTERVAL TO RESUME THE NORMAL SEQUENCE OF OPERATION OR PROPER CLEARANCE INTERVAL TO DISPLAY AN EMERGENCY VEHICLE INTERVAL (IF APPLICABLE) AFTER RAILROAD PREEMPTION INTERVAL 5 IS TERMINATED.



NOTES:

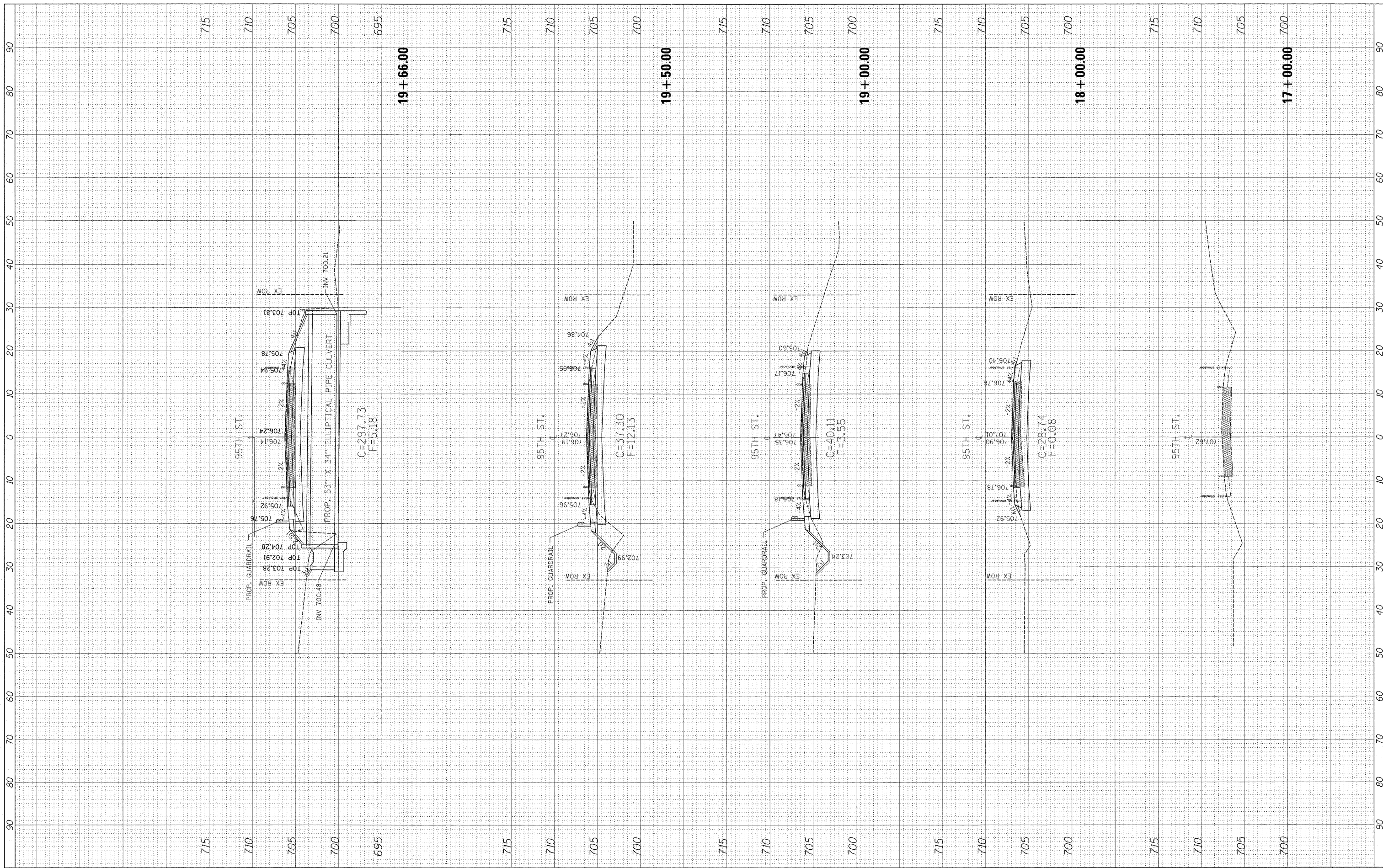
1. USE BLACK LETTERING ON ORANGE BACKGROUND.
2. ERECT SIGNS IN ADVANCE OF THE LOCATION FOR THE "ROAD CONSTRUCTION AHEAD" SIGN AT LOCATIONS AS DIRECTED BY THE ENGINEER.
3. ERECT SIGN ① WITH INSTALLED PANEL ② ONE WEEK PRIOR TO THE START OF CONSTRUCTION.
4. REMOVE PANEL ② SOON AFTER THE START OF CONSTRUCTION.
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 = c:\pw\work\p\dot\steedpa\d0159915\01st	USER NAME = steedpa	DESIGNED -	REVISED - R. MIRS 09-15-97	STATE OF ILLINOIS DEPARTMENT OF TRANSPORTATION	ARTERIAL ROAD INFORMATION SIGN		F.A.U. RTE. 1566	SECTION 29 R-N-1	COUNTY COOK	TOTAL SHEETS 120	SHEET NO. 108	
		DRAWN -	REVISED - R. MIRS 12-11-97		SCALE: NONE	SHEET NO. 1 OF 1 SHEETS	STA.	TO STA.	TC-22		CONTRACT NO. 62377	
		PLOT SCALE = 50.7684' / IN.	REVISED - T. RAMMACHER 02-02-99		FED. ROAD DIST. NO. 1 ILLINOIS FED. AID PROJECT							
		PLOT DATE = 2/3/2011	REVISED - C. JUCIUS 01-31-07									

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

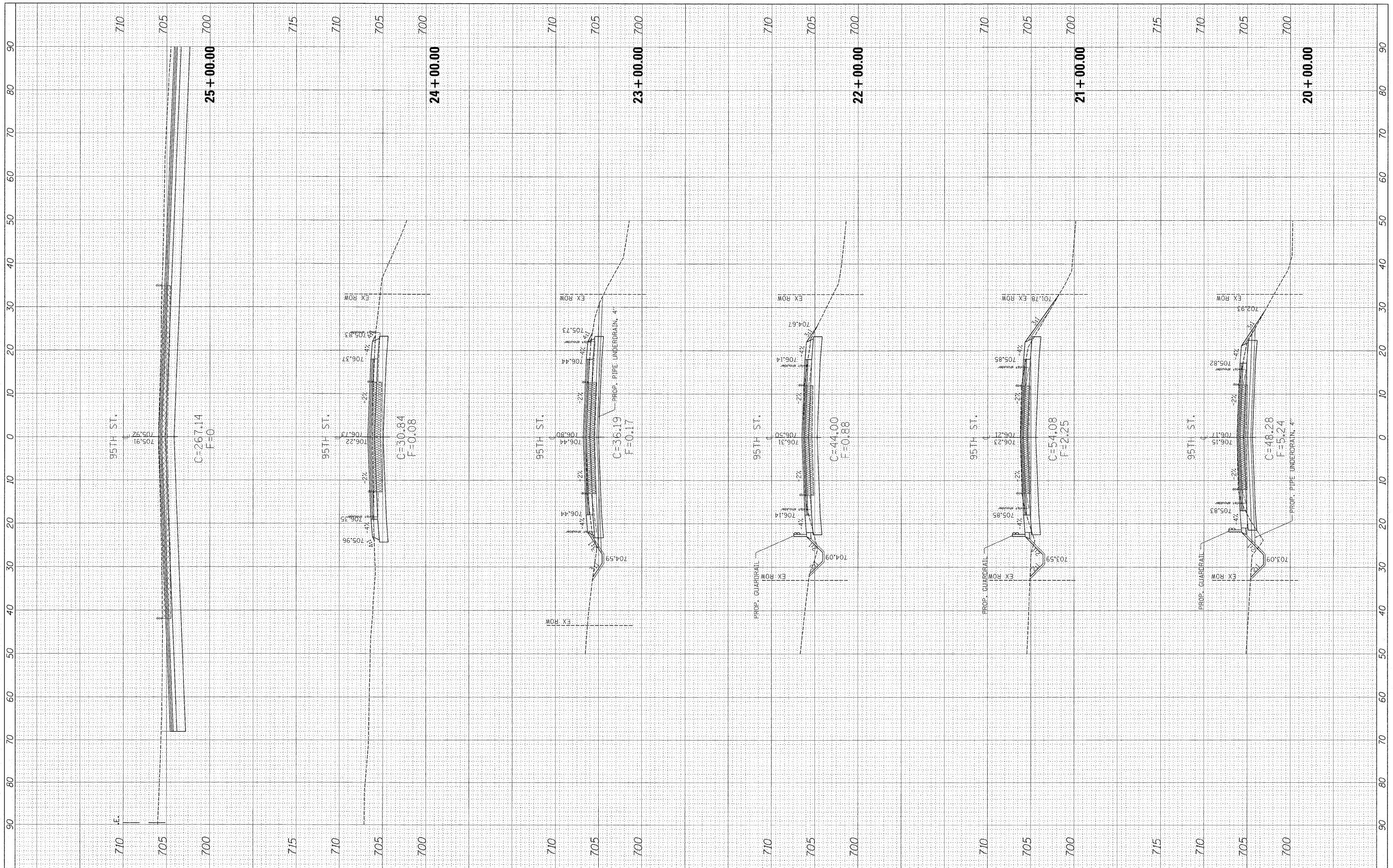
ORIGINAL SURVEY	BY	DATE
SURVEYED		
NOTE BOOK		
TEMPLATE		
AREAS CHECKED		
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FILE NAME =	USER NAME = steedpa	DESIGNED -	REVISED -	STATE OF ILLINOIS DEPARTMENT OF TRANSPORTATION	CROSS SECTIONS 95TH STREET @ 104TH AVENUE/ FLAVIN ROAD		F.A.U. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.	
ci:\pw_work\pwsdot\steedpa\d0159915\p144499-sh\ssht-95th.dgn	PL. OT. SCAI F = 10.0000 1/ in.	DRAWN -	REVISED -		SCALE:	SHEET NO. OF SHEETS	STA. 17+00.00 TO STA. 19+66.00	1566	29 R-N-1	COOK	120	109
PLOT DATE = 12/7/2011	DATE -	CHECKED -	REVISED -					CONTRACT NO. 62377				
		DATE -	REVISED -					ILLINOIS FED. AID PROJECT				

FINAL SURVEY	BY	DATE
SURVEYED		
TEMPLATE		
NOTE BOOK		
AREAS CHECKED		
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ORIGINAL SURVEY	BY	DATE
SURVEYED		
TEMPLATE		
NOTE BOOK		
AREAS CHECKED		
NO.		



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 DESIGNED -
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REVISIONS
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**STATE OF ILLINOIS
 DEPARTMENT OF TRANSPORTATION**

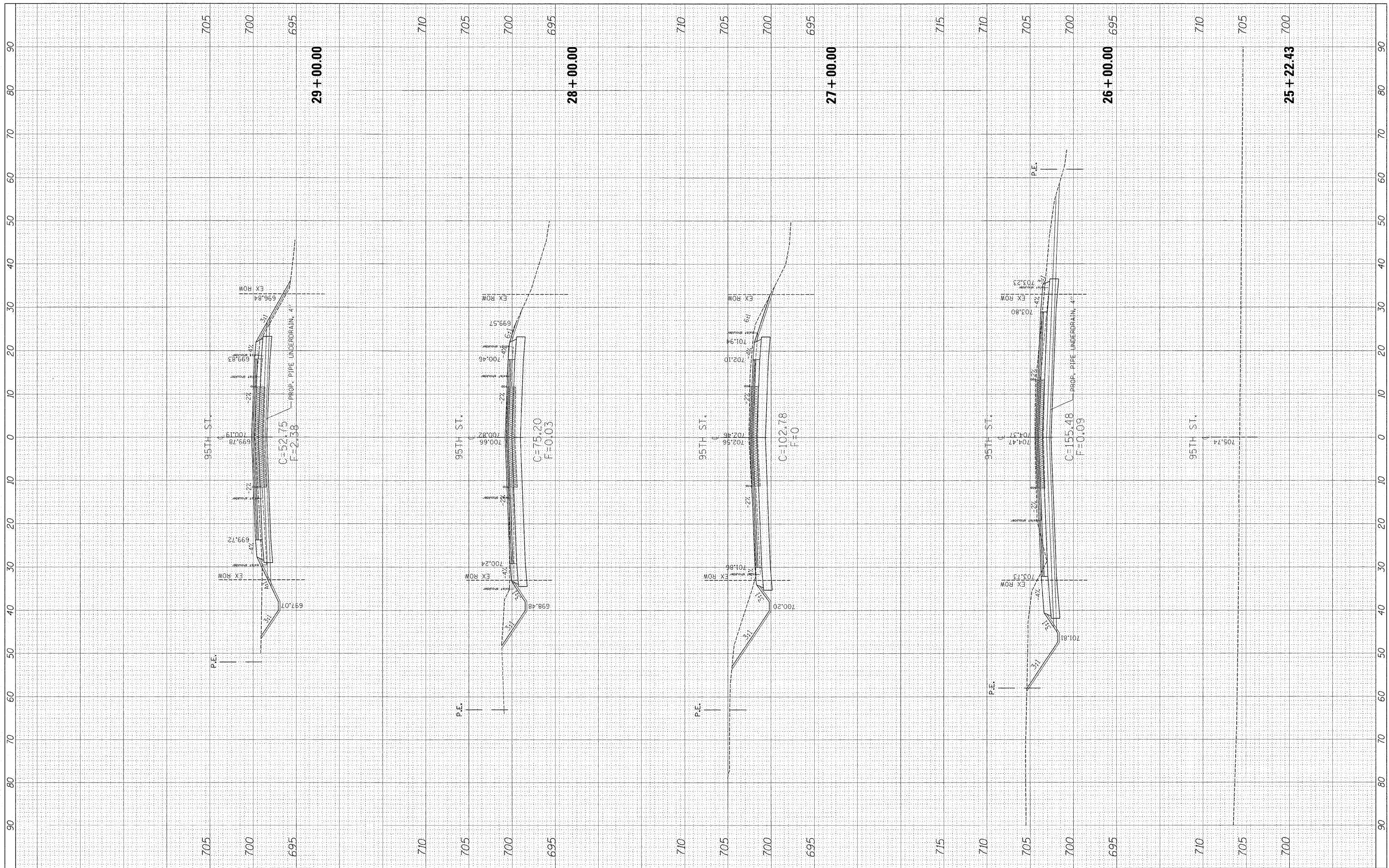
**CROSS SECTIONS
 95TH STREET @ 104TH AVENUE/ FLAVIN ROAD**

SCALE: SHEET NO. OF SHEETS STA. 20+00.00 TO STA. 25+00.00

F.A.U. RTE. 1566	SECTION 29 R-N-1	COUNTY COOK	TOTAL SHEETS 120	SHEET NO. 110
CONTRACT NO. 62377				
ILLINOIS FED. AID PROJECT				

FINAL SURVEY	BY	DATE
NOTE BOOK		
AREAS CHECKED		
NO.		

ORIGINAL SURVEY	BY	DATE
NOTE BOOK		
AREAS CHECKED		
NO.		



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DESIGNED -	REVISED -
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DATE -	REVISED -

**STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION**

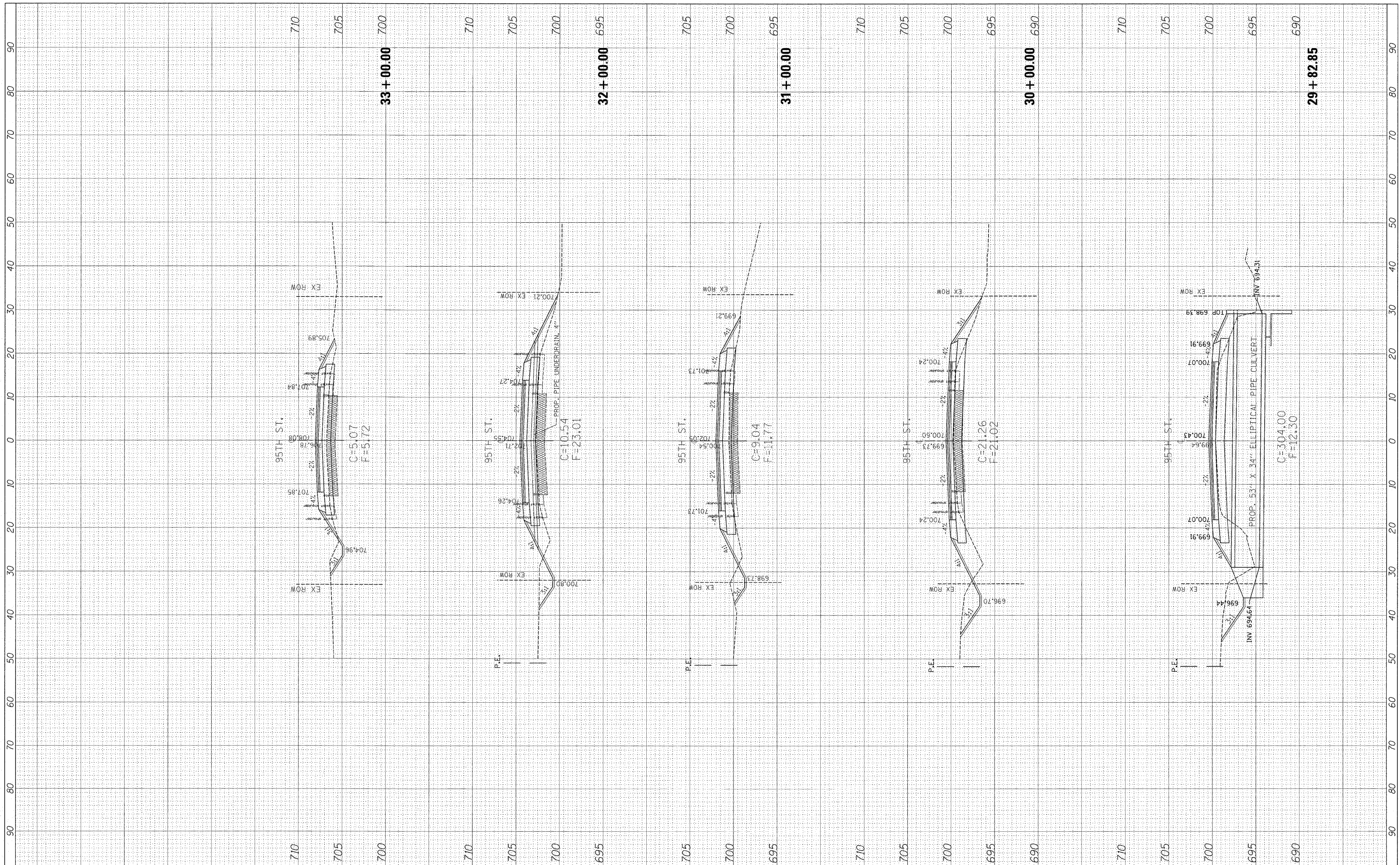
**CROSS SECTIONS
95TH STREET @ 104TH AVENUE/ FLAVIN ROAD**

SCALE: SHEET NO. OF SHEETS STA. 25+22.43 TO STA. 29+00.00

F.A.U. RTE. 1566	SECTION 29 R-N-1	COUNTY COOK	TOTAL SHEETS 120	SHEET NO. 111
CONTRACT NO. 62377				
ILLINOIS FED. AID PROJECT				

FINAL SURVEY	BY	DATE
NO. _____		
AREAS CHECKED		
AREAS CHECKED		

ORIGINAL SURVEY	BY	DATE
NO. _____		
AREAS CHECKED		
AREAS CHECKED		



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 PLOT DATE = 12/7/2011

DESIGNED -
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**STATE OF ILLINOIS
 DEPARTMENT OF TRANSPORTATION**

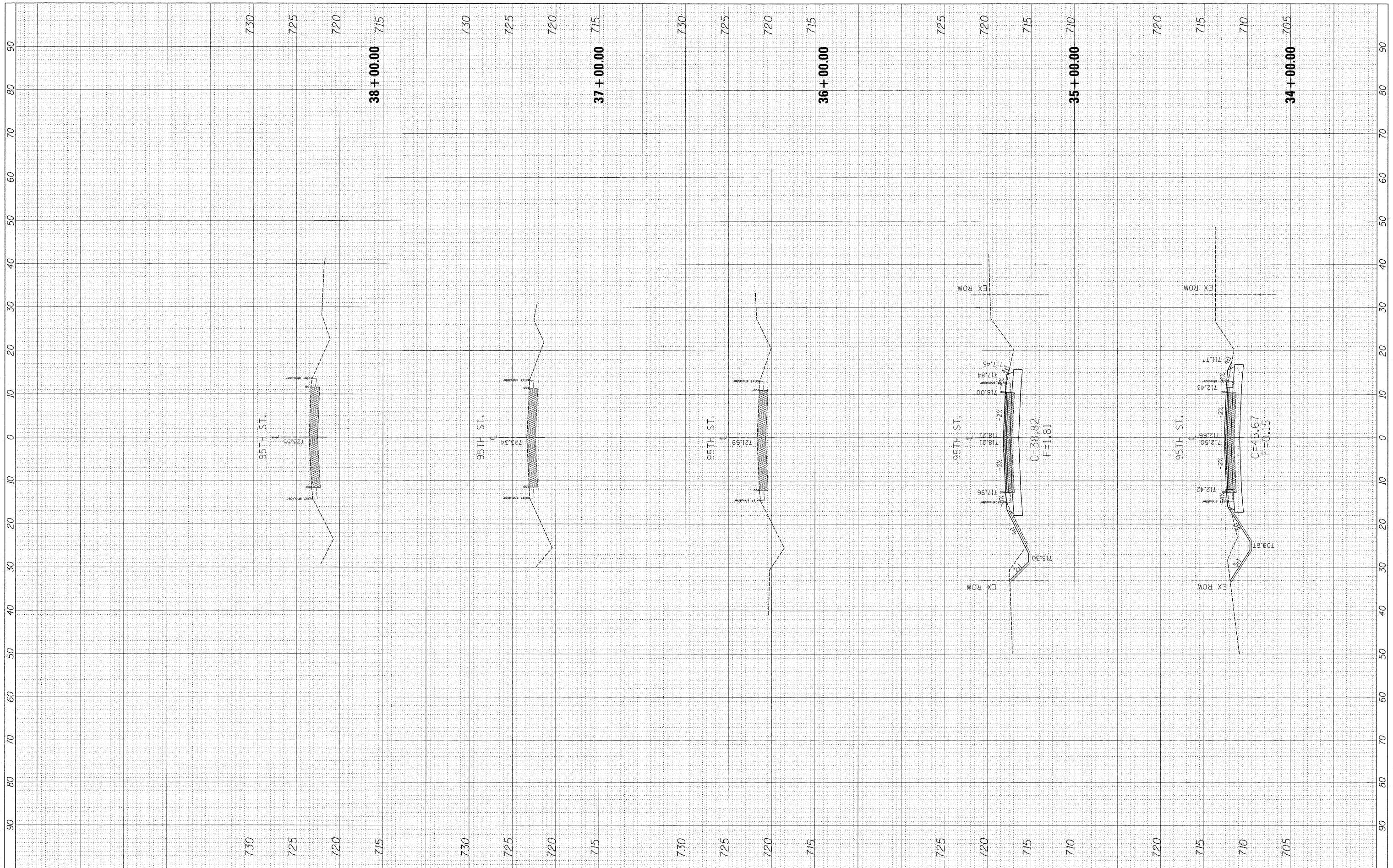
**CROSS SECTIONS
 95TH STREET @ 104TH AVENUE/ FLAVIN ROAD**

SCALE: SHEET NO. OF SHEETS STA. 29+82.85 TO STA. 33+00.00

F.A.U. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
1566	29 R-N-1	COOK	120	112
CONTRACT NO. 62377				
ILLINOIS FED. AID PROJECT				

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

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



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 PLOT DATE = 12/7/2011

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

**STATE OF ILLINOIS
 DEPARTMENT OF TRANSPORTATION**

CROSS SECTIONS
 95TH STREET @ 104TH AVENUE/ FLAVIN ROAD
 SCALE: SHEET NO. OF SHEETS STA. 34+00.00 TO STA. 38+00.00

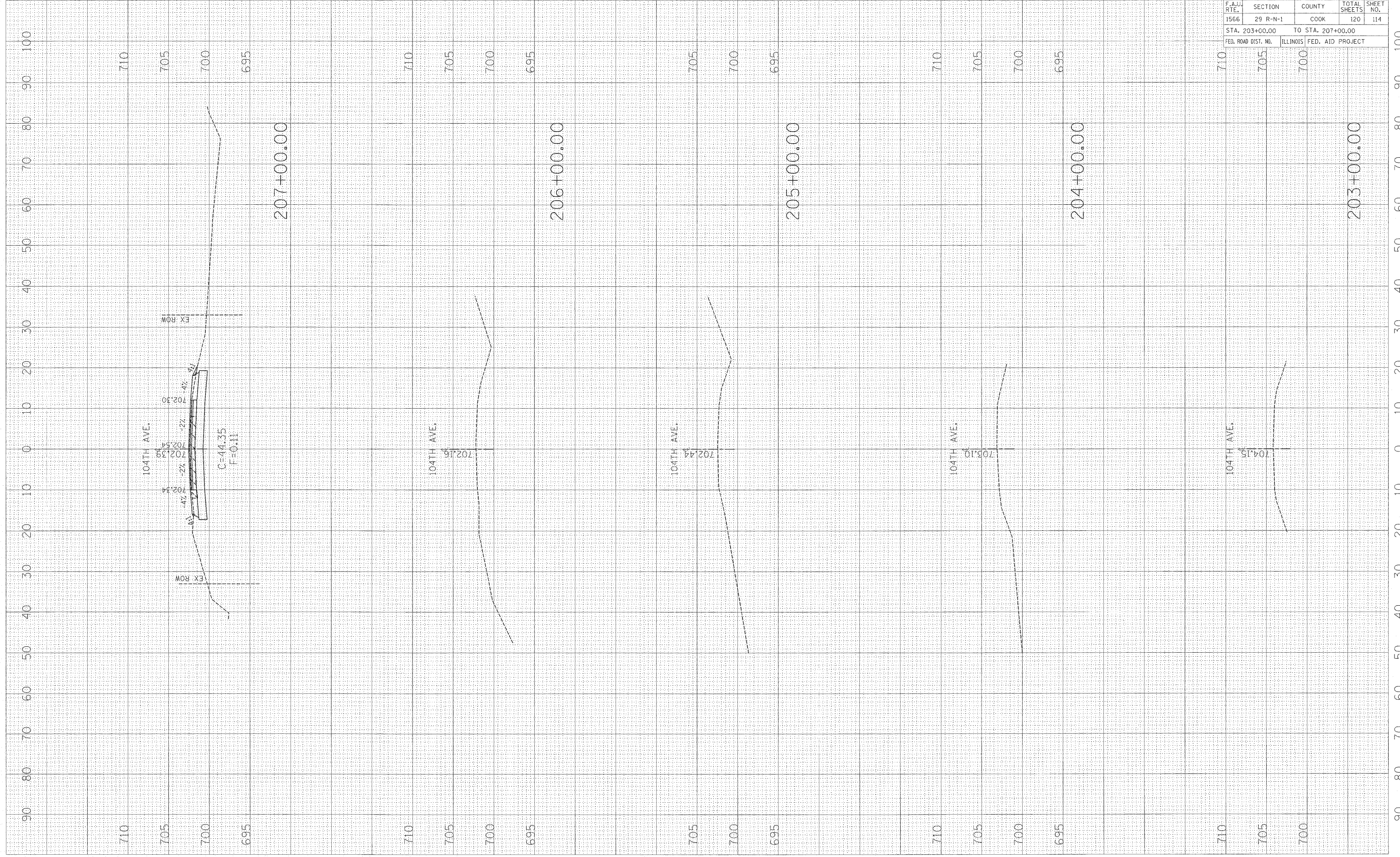
F.A.U. RTE. 1566	SECTION 29 R-N-1	COUNTY COOK	TOTAL SHEETS 120	SHEET NO. 113
CONTRACT NO. 62377				
ILLINOIS FED. AID PROJECT				

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ORIGINAL SURVEY
 REVISIONS
 PLOTTED
 AREAS
 AREAS CHECKED

FINAL SURVEY
 REVISIONS
 PLOTTED
 NOTE BOOK
 AREAS CHECKED

BY: _____ DATE: _____
 NO. _____



CONTRACT NO. 62377				
F.A.U. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
1566	29 R-N-1	COOK	120	114
STA. 203+00.00		TO STA. 207+00.00		
FED. ROAD DIST. NO.	ILLINOIS	FED. AID PROJECT		

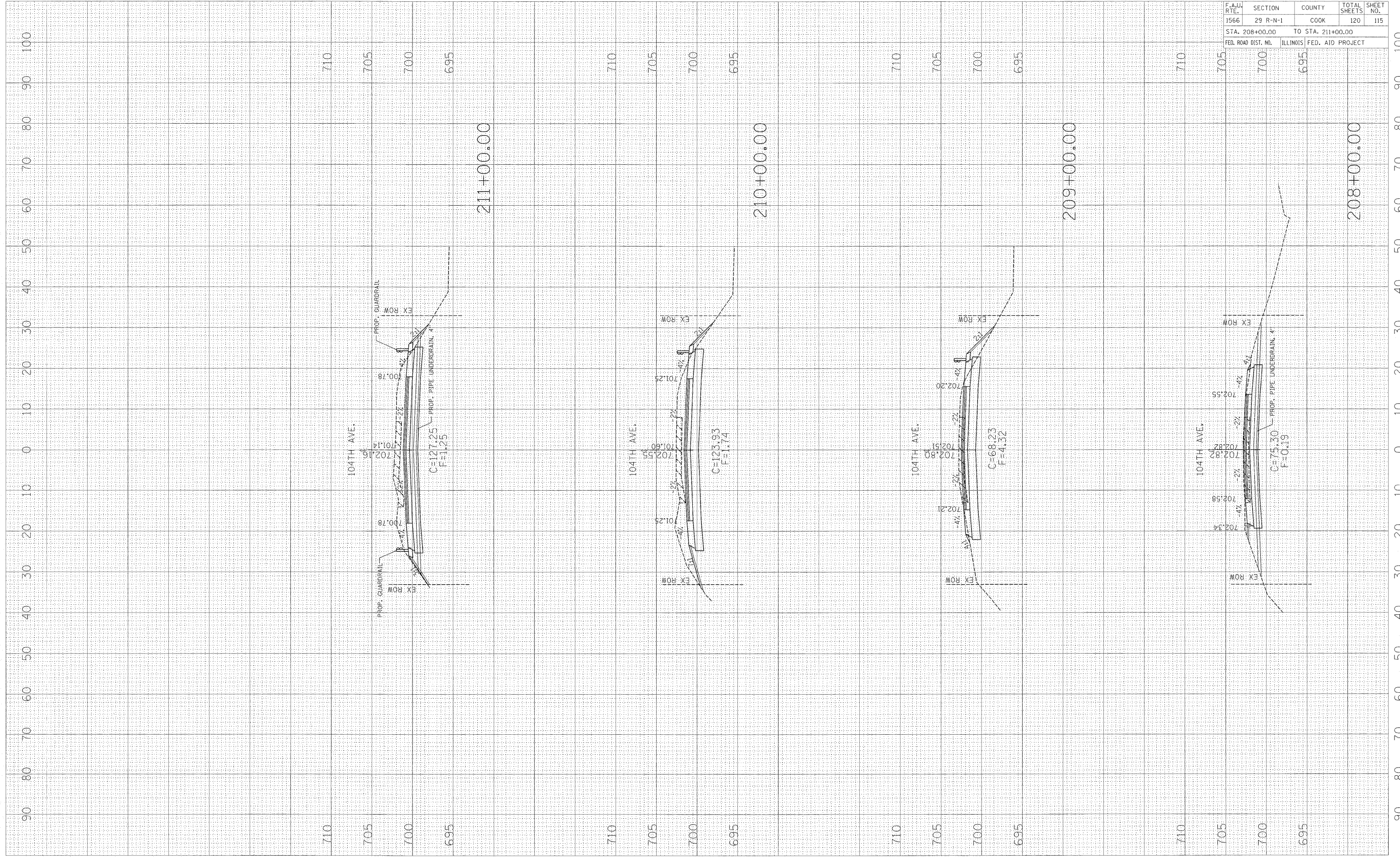
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ORIGINAL
 SUPPLY
 DESIGNED
 PLOTTED
 AREAS
 CHECKED

BY
 DATE

FINAL
 SUPPLY
 DESIGNED
 PLOTTED
 AREAS
 CHECKED

BY
 DATE



CONTRACT NO. 62377				
F.A.U. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
1566	29 R-N-1	COOK	120	115
STA. 208+00.00		TO STA. 211+00.00		
FED. ROAD DIST. NO.	ILLINOIS FED. AID PROJECT			

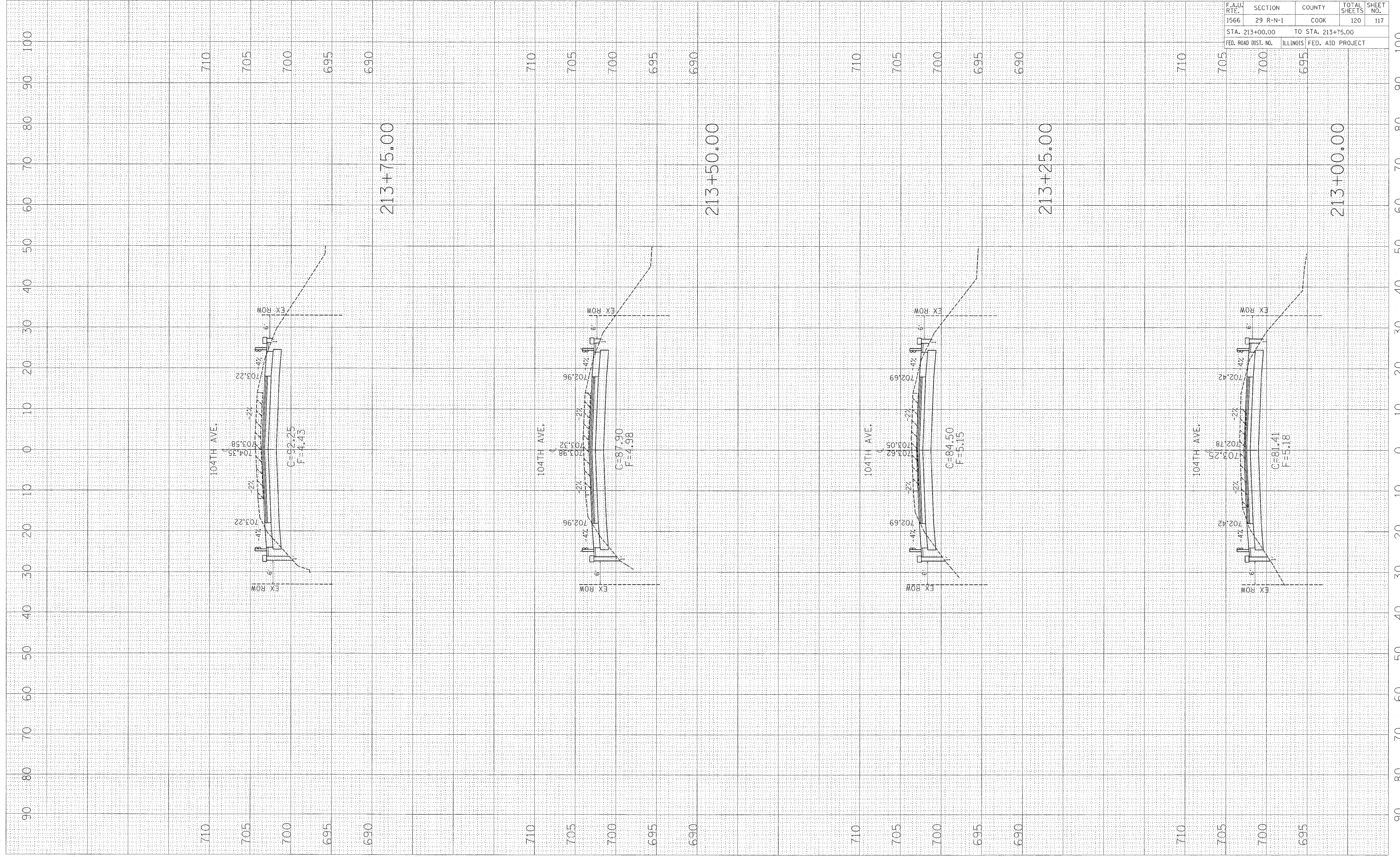
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ORIGINAL SURVEY PLOTTED
 NO. AREAS CHECKED

FINAL SURVEY PLOTTED
 NO. AREAS CHECKED

BY

DATE

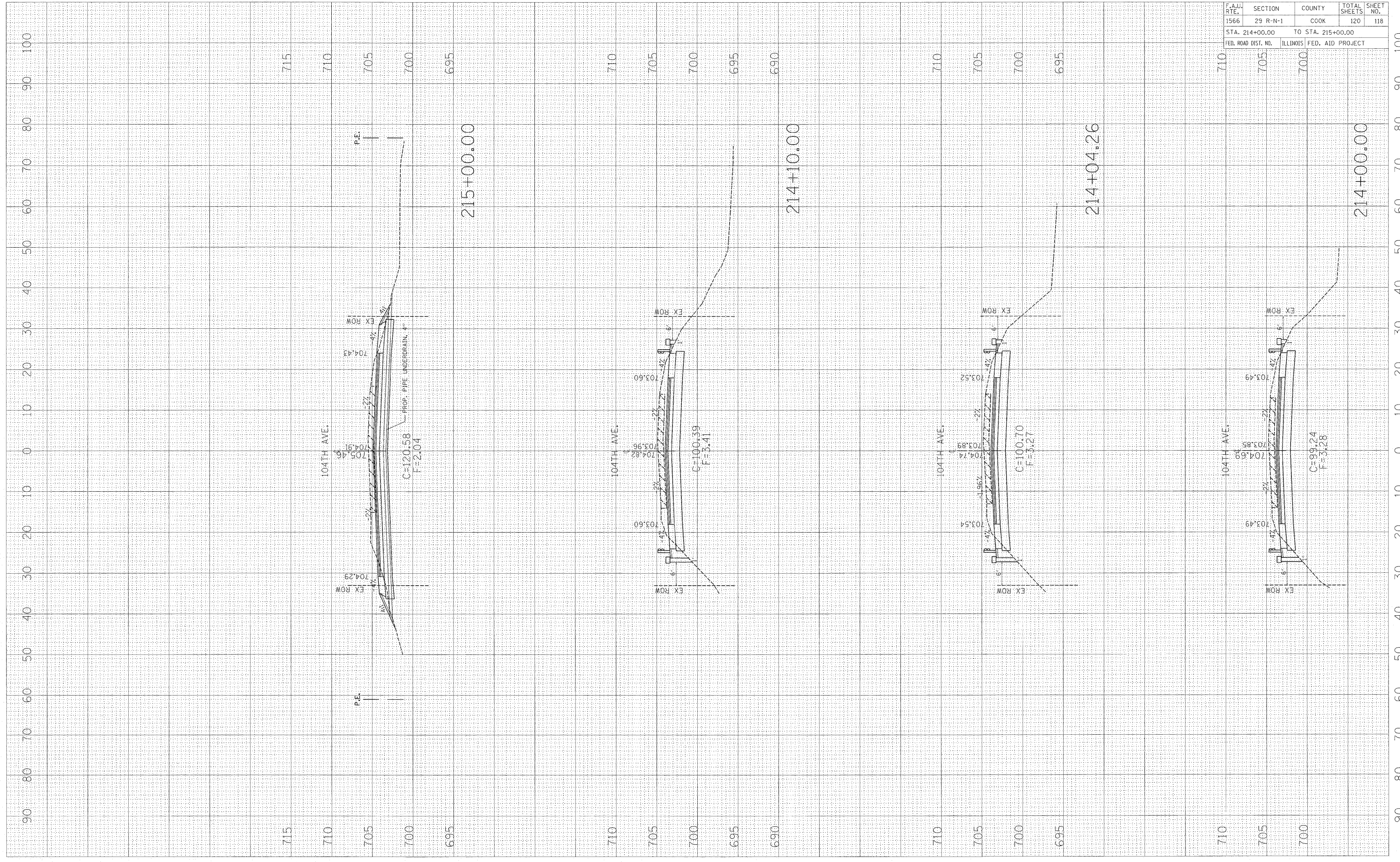


CONTRACT NO. 62377				
F.A.U. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
1566	29 R-N-1	COOK	120	117
STA. 213+00.00		TO STA. 213+75.00		
FED. ROAD DIST. NO.		ILLINOIS FED. AID PROJECT		

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 USER NAME = steedba

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 AREAS CHECKED: [blank]

FINAL SURVEY
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 SURVEY NO.: [blank]
 AREAS CHECKED: [blank]



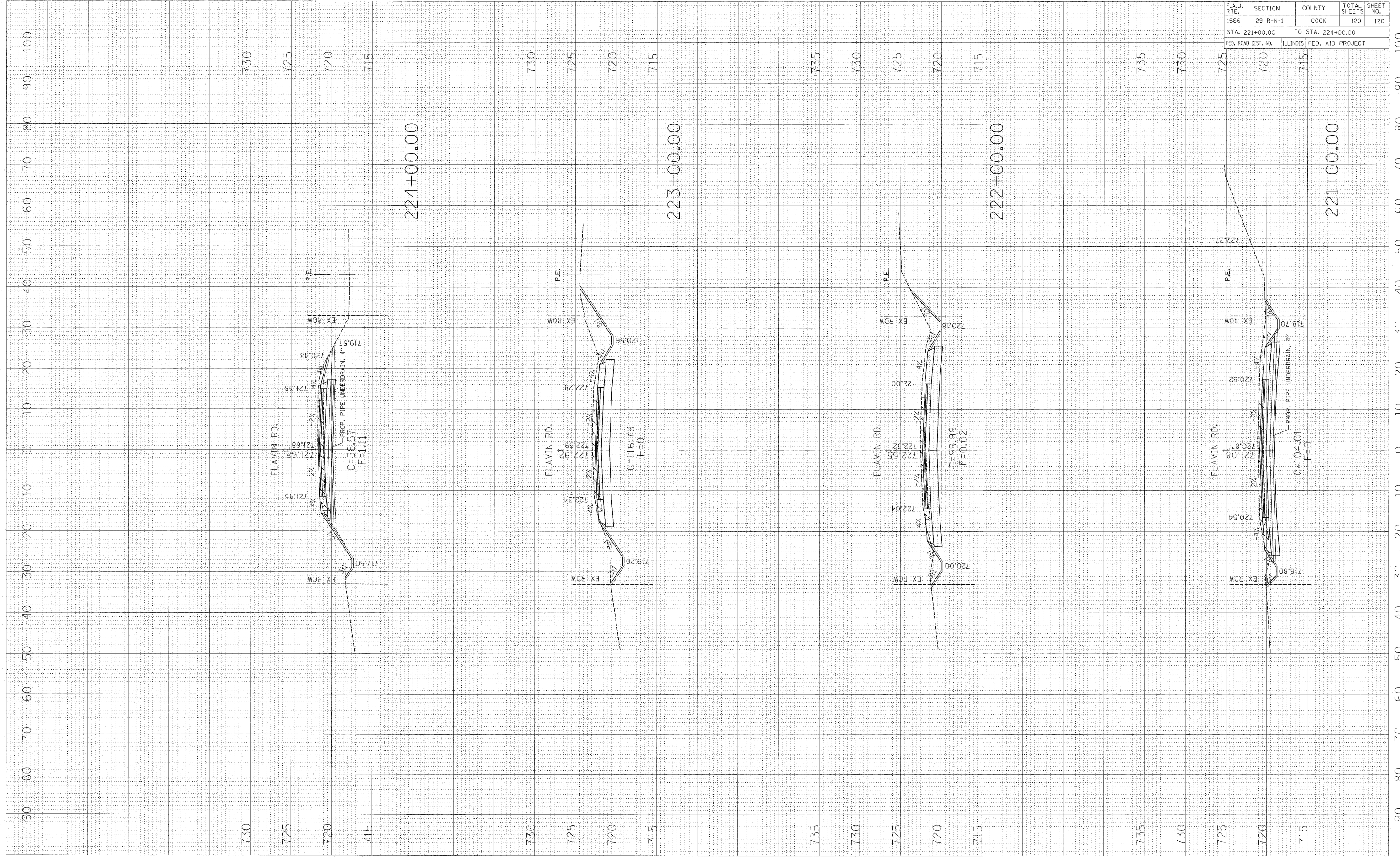
F.A.U. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
1566	29 R-N-1	COOK	120	118
STA. 214+00.00		TO STA. 215+00.00		
FED. ROAD DIST. NO.		ILLINOIS FED. AID PROJECT		

CONTRACT NO. 62377

PLOT DATE = 12/7/2011
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ORIGINAL SURVEY PLOTTED
 USER NAME = s\staeopa
 AREAS CHECKED

FINAL SURVEY SURVEYED
 NOTE BOOK NO.
 BY
 DATE



F.A.U. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
1566	29 R-N-1	COOK	120	120

CONTRACT NO. 62377

STA.	TO STA.
221+00.00	224+00.00

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