

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

**PROPOSED**  
**HIGHWAY PLANS**

**FAP ROUTE 330: US 45 (LAGRANGE ROAD)**  
**SECTION: 2010-135-1**  
**PROJECT: NHF-0330(065)**  
**RAILROAD TRACK REALIGNMENT**  
**COOK COUNTY**  
**C-91-227-11**

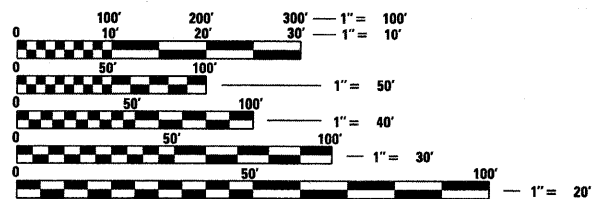
FOR INDEX OF SHEETS, SEE SHEET NO. 2

**DESIGN DESIGNATION:**

US 45 (LAGRANGE ROAD): 3800 (20) OTHER PRINCIPAL ARTERIAL AND STRATEGIC REGIONAL ARTERIAL (SRA) - CLASS II TRUCK ROUTE 11.55 (JPCP-20)

**DESIGN SPEED:**

US 45 (LAGRANGE ROAD) = 45 MPH



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.

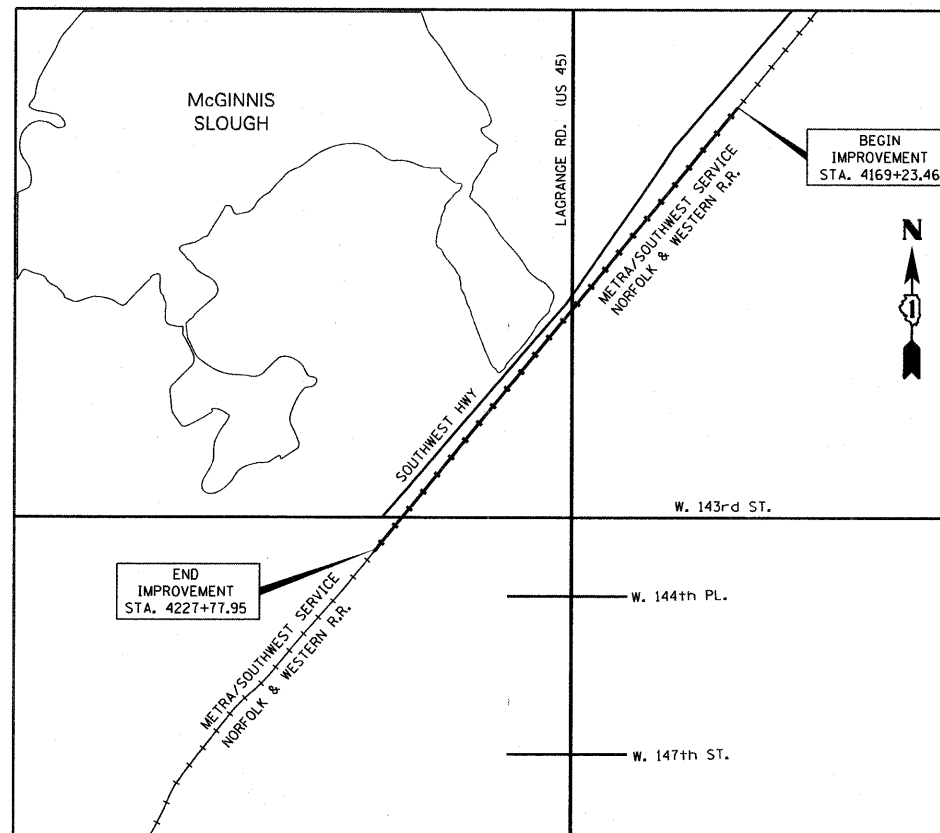
J.U.L.I.E.  
 JOINT UTILITY LOCATION INFORMATION FOR EXCAVATION  
 1-800-892-0123  
 OR 811



*Richard J. Young*  
 NAME: RICHARD J. YOUNG  
 EXP. 11/30/2011  
 DATE:  
 SHT NO.

**PROJECT ENGINEER: MICHELLE AQUINO**  
**PROJECT MANAGER: RAJENDRA SHAH**

**CONTRACT NO. 60N09**



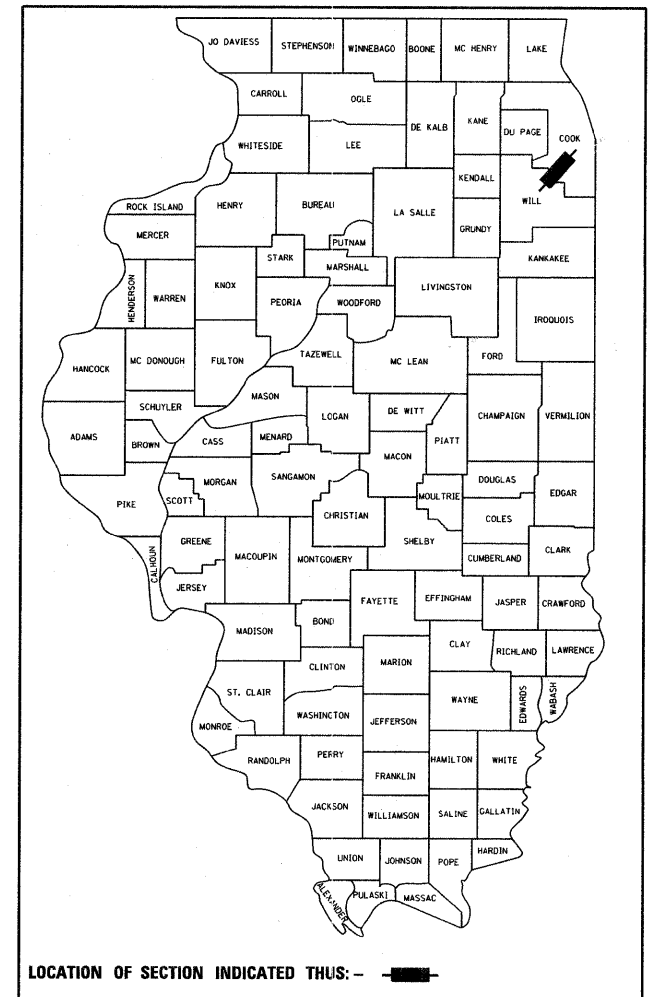
GROSS LENGTH = 5,854.49 FT. = 1.109 MILE  
 NET LENGTH = 5,854.49 FT. = 1.109 MILE



*Jeffery R. Spiekermann*  
 NAME: JEFFERY R. SPIEKERMANN  
 EXP. 11/30/2011  
 DATE: 12-20-10  
 SHT NO.

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
330	2010-135-1	COOK	101	1
		ILLINOIS	CONTRACT NO. 60N09	

D-91-569-08



LOCATION OF SECTION INDICATED THIS: - [shaded area]

STATE OF ILLINOIS  
 DEPARTMENT OF TRANSPORTATION  
 DIVISION OF HIGHWAYS

SUBMITTED DECEMBER 27, 2010

*Diana M. O'Keefe*  
 DEPUTY DIRECTOR OF HIGHWAYS, REGION ENGINEER

February 4 2011

*Scott E. Stitt P.E.*  
 ENGINEER OF DESIGN AND ENVIRONMENT

February 4 2011

*Christine M. Reed*  
 DIRECTOR OF HIGHWAYS, CHIEF ENGINEER

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**OF THE STATE OF ILLINOIS**

## INDEX OF SHEETS

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## HIGHWAY STANDARDS

STANDARD NO.	TITLE
000001-06	STANDARD SYMBOLS, ABBREVIATIONS, AND PATTERNS
001001-02	AREAS OF REINFORCEMENT BARS
202001-01	EARTH MEDIAN DITCH CHECK
280001-05	TEMPORARY EROSION CONTROL SYSTEMS
353001-04	PCC BASE COURSE WITH HMA BINDER AND SURFACE COURSES
420001-07	PAVEMENT JOINTS
420501-04	PCC PAVEMENT AND PCC BASE COURSE ADJACENT TO RAILROAD GRADE CROSSING
602001-02	CATCH BASIN, TYPE A
602301-03	INLET, TYPE A
602401-03	MANHOLE, TYPE A
602701-02	MANHOLE STEPS
604001-03	FRAME AND LIDS, TYPE 1
604036-02	GRATE, TYPE 8
604086-02	FRAME AND GRATE, TYPE 23
604091-02	FRAME AND GRATE, TYPE 24
602601-02	PRECAST REINFORCED CONCRETE FLAT SLAB TOP
606001-04	CONCRETE CURB TYPE B AND COMBINATION CONCRETE CURB AND GUTTER
606301-04	PC CONCRETE ISLANDS AND MEDIANS
664001-02	CHAIN LINK FENCE
701901-01	TRAFFIC CONTROL DEVICES
780001-02	TYPICAL PAVEMENT MARKINGS
781001-03	TYPICAL APPLICATIONS RAISED REFLECTIVE PAVEMENT MARKERS

FILE NAME = D160N09-SHT-INDEX01.dgn	USER NAME = TK1uegl	DESIGNED - BA	REVISED -	<b>STATE OF ILLINOIS DEPARTMENT OF TRANSPORTATION</b>	<b>INDEX OF SHEETS AND HIGHWAY STANDARDS</b>	F.A.P. RTE. 330	SECTION 2010-135-I	COUNTY COOK	TOTAL SHEETS 101	SHEET NO. 2
PLOT SCALE = 1:1	PLOT DATE = 12/29/2010	CHECKED - MJT	REVISED -	SCALE: N.T.S. SHEET NO. 1 OF 1 SHEETS STA. TO STA.		<b>IS-01</b>		CONTRACT NO. 60N09		
ILLINOIS FED. AID PROJECT										

**GENERAL NOTES:**

1. THE THICKNESS OF HMA SHOWN ON THE PLANS IS THE NOMINAL THICKNESS. DEVIATIONS FROM THE NOMINAL THICKNESS WILL BE PERMITTED WHEN SUCH DEVIATIONS OCCUR DUE TO IRREGULARITIES IN THE EXISTING SURFACE OR BASE ON WHICH THE HMA IS PLACED.
2. TEN (10) FOOT TRANSITIONS SHALL BE USED TO MATCH PROPOSED CURB AND GUTTER AND MEDIAN ITEMS OF WORK TO EXISTING CURBS AND GUTTER AND MEDIANS IN THE FIELD, UNLESS OTHERWISE SHOWN. THE TRANSITIONS SHALL BE PAID FOR AT THE CONTRACT UNIT PRICE FOR THE PROPOSED ITEMS OF WORK SPECIFIED.
3. BEFORE BEGINNING ANY WORK, THE CONTRACTOR SHALL RETAIN AND RECORD FOR FUTURE REFERENCE, ALL EXISTING PAVEMENT MARKING LINES (AND RAISED REFLECTIVE PAVEMENT MARKERS) IN ORDER THAT THESE LOCATIONS CAN BE RE-ESTABLISHED FOR STRIPING. EXACT LOCATIONS OF ALL PAVEMENT MARKINGS SHALL BE AS DIRECTED BY THE ENGINEER.
4. EXCEPT AS NOTED ON THE PLANS, PAVEMENT GRADES SHOWN ARE AT THE TOP OF PAVEMENT SURFACES.
5. THE CONTRACTOR WILL NOT BE ALLOWED TO SET UP A YARD OR FIELD OFFICE ON STATE PROPERTY WITHOUT WRITTEN PERMISSION FROM THE DEPARTMENT.
6. THE ENGINEER WILL BE THE SOLE JUDGE CONCERNING CURING TIME FOR THE VARIOUS HMA LIFTS.
7. SEEDING SHALL NOT BE PERMITTED AT ANY TIME WHEN THE GROUND IS FROZEN, WET, OR IN AN UNTILLABLE CONDITION. LOCATIONS TO BE SEEDED WILL BE DETERMINED BY THE ENGINEER.
8. ONLY THOSE TREES DESIGNATED BY THE ENGINEER, LISTED IN THE TREE REMOVAL SCHEDULE, OR SHOWN IN THE PLANS SHALL BE REMOVED. THE CONTRACTOR SHALL PROTECT ALL REMAINING TREES FROM DAMAGE DUE TO HIS OPERATIONS.
9. THE LOCATION OF EXISTING DRAINAGE STRUCTURES, STORM SEWERS, WATER MAINS, SANITARY SEWERS, AND ANY OTHER PUBLIC OR PRIVATE UTILITIES AS SHOWN ON THE PLANS IS APPROXIMATE, AND THEIR EXACT LOCATION IS TO BE DETERMINED IN THE FIELD BY THE CONTRACTOR. THIS WORK SHALL BE PAID FOR PER ART. 105.07 OF THE STANDARD SPECIFICATIONS. LOCATING UTILITIES SHALL BE PAID PER ART. 109.04.
10. WHEN ARTIFICIAL LIGHTING IS UTILIZED IN NIGHT OPERATIONS, THE CONTRACTOR SHALL EXERCISE THE UTMOST PRECAUTIONS IN PREVENTING ADVERSE VISIBILITY TO THE MOTORING PUBLIC AND ADJOINING RESIDENTIAL AREAS.
11. THE WORK REQUIRED TO CONNECT ANY SEWER TO AN EXISTING DRAINAGE STRUCTURE OR PIPE WILL NOT BE PAID FOR SEPARATELY, BUT SHALL BE CONSIDERED AS INCLUDED IN THE CONTRACT UNIT PRICE BID FOR THE SEWER ITEMS.
12. IT SHALL BE THE CONTRACTOR'S RESPONSIBILITY TO VERIFY ALL DIMENSIONS AND CONDITIONS EXISTING IN THE FIELD PRIOR TO CONSTRUCTION AND ORDERING OF MATERIALS.
13. THE CONTRACTOR SHALL PROTECT AND CAREFULLY PRESERVE ALL SECTION OR SUBSECTION MONUMENTS, PROPERTY CORNERS, AND REFERENCE MARKERS UNTIL THE OWNER, HIS AGENT, OR ANY AUTHORIZED SURVEYOR HAS WITNESSED OR OTHERWISE REFERENCED THEIR LOCATIONS.
14. ABANDONED UNDERGROUND UTILITIES THAT CONFLICT WITH CONSTRUCTION SHALL BE DISPOSED OF OUTSIDE THE LIMITS OF THE RIGHT OF WAY ACCORDING TO ARTICLE 202.03 OF THE STANDARD SPECIFICATIONS AND AS DIRECTED BY THE ENGINEER. THIS WORK WILL NOT BE PAID FOR SEPARATELY, BUT SHALL BE INCLUDED IN THE COST OF EARTH EXCAVATION.
15. USE #8 EPOXY-COATED TIE BARS, CONFORMING TO ART. 1006.10 OF THE STANDARD SPECIFICATIONS, FOR ALL TIE BARS. USE THE LONGITUDINAL CONSTRUCTION JOINT (TIE BAR GROUTED IN PLACE) DETAIL SHOWN ON HIGHWAY STANDARD 420001 FOR ALL LONGITUDINAL JOINTS AND FOR TYING PCC PAVEMENT WIDENING TO EXISTING CONCRETE PAVEMENT AS SHOWN ON THE PLANS.
16. THE CONTRACTOR SHALL CONTACT THE DISTRICT ONE TRAFFIC CONTROL SUPERVISOR AT (847)705-4470 A MINIMUM OF 72 HOURS IN ADVANCE OF BEGINNING WORK.
17. DO NOT SCALE PLANS FOR CONSTRUCTION DIMENSIONS.
18. ANY REFERENCE TO A STANDARD IN THESE PLANS SHALL BE INTERPRETED TO MEAN THE EDITION AS INDICATED BY THE SUBNUMBER SHOWN IN THE LIST OF STANDARDS OR THE COPY INCLUDED IN THESE PLANS.
19. THE FOLLOWING RATES OF APPLICATION HAVE BEEN USED IN CALCULATING PLAN QUANTITIES:
 

GRANULAR MATERIALS	2.05	TONS/CU YD
BITUMINOUS MAT PRIME COAT	0.05	GAL/SQ YD - BETWEEN LIFTS
	0.5	GAL/SQ YD - AGGREGATE
	0.1	GAL/SQ YD - ABOVE PCC BASE
AGGREGATE (PRIME COAT)	0.002	TONS/SQ YD
HMA RESURFACING	112	LBS/SQ YD/IN
LEVEL BINDER (HAND METHOD)	112	LBS/SQ YD/IN
SUPPLEMENTAL WATERING	3	GAL/SQ YD/APPLICATION
20. ALL DAMAGE TO DEPARTMENT OWNED UNDERGROUND FACILITIES, CAUSED BY THE CONTRACTOR SHALL BE REPAIRED TO THE SATISFACTION OF THE DEPARTMENT AT THE CONTRACTOR'S EXPENSE. THIS SHALL INCLUDE ALL TEMPORARY REPAIRS REQUIRED TO KEEP THE FACILITY OPERATIONAL WHILE MATERIAL IS BEING OBTAINED TO MAKE PERMANENT REPAIRS. SPLICING OF ELECTRIC CABLE SHALL NOT BE ALLOWED. ELECTRIC CABLE SHALL BE REPLACED FROM POLE TO POLE OR CONTROLLER.
21. THE CONTRACTOR SHALL CONTACT JULIE AT LEAST 48 HOURS PRIOR TO EXCAVATION TO DETERMINE WHICH UTILITIES ARE IN THE AREA.
22. THE CONTRACTOR SHALL MAINTAIN EXISTING STREET ACCESS, EXISTING DRIVEWAY ACCESS, AND PEDESTRIAN ACCESS TO ABUTTING PROPERTY AT ALL TIMES DURING CONSTRUCTION OF THE PROJECT, UNLESS OTHERWISE NOTED IN THE PLANS OR DIRECTED BY THE ENGINEER.
23. SAWING OF REMOVAL ITEMS AS NOTED ON THE PLANS, SPECIFIED IN THE STANDARD SPECIFICATIONS, OR AS REQUIRED BY THE ENGINEER SHALL BE INCLUDED IN THE COST OF THE ITEM BEING REMOVED
24. IT IS THE CONTRACTOR'S RESPONSIBILITY TO ASCERTAIN EXISTING FIELD CONDITIONS BEFORE BIDDING ON THIS CONTRACT
25. DOUBLE LANE MARKERS ARE TO BE USED AS SHOWN ON THE DISTRICT ONE DETAIL 1/32 TYPICAL APPLICATIONS 1/32 RAISED REFLECTIVE PAVEMENT MARKERS (SNOW-PLOW RESISTANT) 1/32 SHOWN IN THE PLANS.
26. FURNISH AND DELIVER TO METRA THE TRACK MATERIALS AS SPECIFIED IN THE SPECIAL PROVISION "CONSTRUCTION OF TRACK."
27. UNDERBRUSH OR DEBRIS AT PLANTING LOCATIONS SHALL BE REMOVED AND DISPOSED OF ACCORDING TO SECTION 201 OF THE STANDARD SPECIFICATIONS. THIS WORK WILL NOT BE PAID FOR SEPARATELY, BUT THE COSTS SHALL BE CONSIDERED AS INCLUDED IN THE CONTRACT UNIT PRICES FOR THE CONSTRUCTION ITEMS INVOLVED, AND NO ADDITIONAL COMPENSATION WILL BE ALLOWED.
28. THE CONTRACTOR SHALL TAKE ALL NECESSARY PRECAUTIONS FOR THE PROTECTION OF EXISTING PLANT MATERIAL FOR WHICH THE CONTRACT DOES NOT PROVIDE REMOVAL. THE PROTECTION OF EXISTING PLANT MATERIAL AND THE REPAIR OR REPLACEMENT OF EXISTING PLANT MATERIAL DAMAGED BY THE CONTRACTOR SHALL BE DONE IN ACCORDANCE WITH THE REQUIREMENTS OF SECTION 201 OF THE STANDARD SPECIFICATIONS.

FILE NAME = D:\60N09-SHT-GENNOTE.dgn	USER NAME = TK\luegl	DESIGNED - BA	REVISED -	<b>STATE OF ILLINOIS DEPARTMENT OF TRANSPORTATION</b>	<b>GENERAL NOTES</b>	F.A.P RTE. 330	SECTION 2010-135-I	COUNTY COOK	TOTAL SHEETS 101	SHEET NO. 3
	PLOT SCALE = 1:10	CHECKED - MJT	REVISED -			<b>GN-01</b>		CONTRACT NO. 60N09		
	PLOT DATE = 12/29/2010	DATE - 12/17/10	REVISED -		SCALE:	SHEET NO. 1 OF 1 SHEETS		STA. TO STA.		
ILLINOIS FED. AID PROJECT										

CODE NO.	ITEM	UNIT	TOTAL QUANTITY	CONSTRUCTION CODE						
				ROADWAY US 45/143RD 80% FED 20% STATE 0003	TRACK RELOCATION 80% FED 20% STATE 0021	LANDSCAPING 80% FED 20% STATE 0003		PLATFORM 80% FED 20% STATE 0003	VILLAGE OF ORLAND PARK 100% VOP 0043	
20100210	TREE REMOVAL (OVER 15 UNITS DIAMETER)	UNIT	62	62						
20100500	TREE REMOVAL, ACRES	ACRE	0.9	0.9						
20200100	EARTH EXCAVATION	CU YD	12,491		12,491					
20201200	REMOVAL AND DISPOSAL OF UNSUITABLE MATERIAL	CU YD	3,527		3,527					
20400800	FURNISHED EXCAVATION	CU YD	10,938		10,938					
20800150	TRENCH BACKFILL	CU YD	173					151		22
21001000	GEOTECHNICAL FABRIC FOR GROUND STABILIZATION	SO YD	12,990	12,840						150
21101615	TOPSOIL FURNISH AND PLACE, 4"	SO YD	14,970			14,970				
25000210	SEEDING, CLASS 2A	ACRE	0.2			0.2				
25000312	SEEDING, CLASS 4A	ACRE	1.9			1.9				
25000400	NITROGEN FERTILIZER NUTRIENT	POUND	80			80				
25000500	PHOSPHORUS FERTILIZER NUTRIENT	POUND	80			80				
25000600	POTASSIUM FERTILIZER NUTRIENT	POUND	80			80				
25100115	MULCH, METHOD 2	ACRE	3.0			3.0				
25100630	EROSION CONTROL BLANKET	SO YD	6,910	6,910						
25200110	SODDING, SALT TOLERANT	SO YD	5,290	5,290						
25200200	SUPPLEMENTAL WATERING	UNIT	224	224						
28000250	TEMPORARY EROSION CONTROL SEEDING	POUND	235	235						
28000305	TEMPORARY DITCH CHECKS	FOOT	1,170	1,170						
28000400	PERIMETER EROSION BARRIER	FOOT	4,215	4,215						
28000500	INLET AND PIPE PROTECTION	EACH	7	3						4
28000510	INLET FILTERS	EACH	16	16						
35101800	AGGREGATE BASE COURSE, TYPE B 6"	SO YD	190	190						
35102100	AGGREGATE BASE COURSE, TYPE B 9"	SO YD	150							150
35301200	HIGH-EARLY-STRENGTH PORTLAND CEMENT CONCRETE BASE COURSE 9"	SO YD	635	635						
40600100	BITUMINOUS MATERIALS (PRIME COAT)	GALLON	79	64						15
40600300	AGGREGATE (PRIME COAT)	TON	1.4	0.4						1
40603080	HOT-MIX ASPHALT BINDER COURSE, IL-19.0, N50	TON	187.1	80.1				88		19
40603335	HOT-MIX ASPHALT SURFACE COURSE, MIX "D", N50	TON	175.7	74.7				88		13
42001300	PROTECTIVE COAT	SO YD	355	355						
42400200	PORTLAND CEMENT CONCRETE SIDEWALK 5 INCH	SO FT	8,143	721				3,917		3,505
44000100	PAVEMENT REMOVAL	SO YD	1,442	1,185				257		

• DENOTES SPECIALTY ITEM  
 VOP = VILLAGE OF ORLAND PARK

FILE NAME = D:\60N09-SHT-S0001.dgn	USER NAME = TKluegel	DESIGNED - MJT	REVISED -	<b>STATE OF ILLINOIS DEPARTMENT OF TRANSPORTATION</b>	<b>SUMMARY OF QUANTITIES</b>	F.A.P. RTE. 330	SECTION 2010-135-I	COUNTY COOK	TOTAL SHEETS 101	SHEET NO. 4	
PLOT SCALE = 1:50	CHECKED - TRK	REVISED -	SCALE: N.T.S.			SHEET NO. 1 OF 5 SHEETS	STA. TO STA.	<b>S0-01</b>		CONTRACT NO. 60N09	
PLOT DATE = 1/7/2011	DATE - 12/17/10	REVISED -	ILLINOIS FED. AID PROJECT								

CODE NO.	ITEM	UNIT	TOTAL QUANTITY	CONSTRUCTION CODE						
				ROADWAY US 45/143RD	TRACK RELOCATION	LANDSCAPING		PLATFORM	VILLAGE OF ORLAND PARK	
				80% FED 20% STATE 0003	80% FED 20% STATE 0021	80% FED 20% STATE 0003		80% FED 20% STATE 0003	100% VOP 0043	
44000300	CURB REMOVAL	FOOT	180							180
44000500	COMBINATION CURB AND GUTTER REMOVAL	FOOT	153	153						
44000600	SIDEWALK REMOVAL	SO FT	9,457	104				8,893		460
44003100	MEDIAN REMOVAL	SO FT	1,215	1,215						
44201741	CLASS D PATCHES, TYPE II, 8 INCH	SO YD	49							49
50101500	REMOVAL OF EXISTING SUPERSTRUCTURES	EACH	1	1						
50102400	CONCRETE REMOVAL	CU YD	274	274						
50157300	PROTECTIVE SHIELD	SO YD	387.0	387.0						
50900805	PEDESTRIAN RAILING	FOOT	180					180		
54213657	PRECAST REINFORCED CONCRETE FLARED END SECTIONS 12"	EACH	2	1				1		
54213675	PRECAST REINFORCED CONCRETE FLARED END SECTIONS 30"	EACH	1					1		
54247150	GRATING FOR CONCRETE FLARED END SECTION 30"	EACH	1					1		
550A0340	STORM SEWERS, CLASS A, TYPE 2 12"	FOOT	637.3	544.3				65.0		28
550A0380	STORM SEWERS, CLASS A, TYPE 2 18"	FOOT	25.7	25.7						
550A0430	STORM SEWERS, CLASS A, TYPE 2 30"	EACH	667					667		
550A0450	STORM SEWERS, CLASS A, TYPE 2 36"	FOOT	61.7	61.7						
55100500	STORM SEWER REMOVAL 12"	FOOT	24							24
55100700	STORM SEWER REMOVAL 15"	FOOT	52.1	40.1				12.0		
55100900	STORM SEWER REMOVAL 18"	FOOT	6.0	6.0						
55101400	STORM SEWER REMOVAL 30"	FOOT	954.2	476.2				478.0		
55101600	STORM SEWER REMOVAL 36"	FOOT	26.0	26.0						
56103300	DUCTILE IRON WATER MAIN 12"	FOOT	223							223
56400820	FIRE HYDRANT WITH AUXILIARY VALVE AND VALVE BOX	EACH	1							1
60200805	CATCH BASINS, TYPE A, 4'-DIAMETER, TYPE 8 GRATE	EACH	2	2						
60201330	CATCH BASINS, TYPE A, 4'-DIAMETER, TYPE 23 FRAME AND GRATE	EACH	1	1						
60201340	CATCH BASINS, TYPE A, 4'-DIAMETER, TYPE 24 FRAME AND GRATE	EACH	1	1						
60203805	CATCH BASINS, TYPE A, 5'-DIAMETER, TYPE 1 FRAME, OPEN LID	EACH	1					1		
60206905	CATCH BASINS, TYPE C, TYPE 1 FRAME, OPEN LID	EACH	2							2
60218400	MANHOLES, TYPE A, 4'-DIAMETER, TYPE 1 FRAME, CLOSED LID	EACH	4	4						
60221100	MANHOLES, TYPE A, 5'-DIAMETER, TYPE 1 FRAME, CLOSED LID	EACH	2					2		
60221700	MANHOLES, TYPE A, 5'-DIAMETER, TYPE 8 GRATE	EACH	2	2						
60236200	INLETS, TYPE A, TYPE 8 GRATE	EACH	2	2						

• DENOTES SPECIALTY ITEM  
VOP = VILLAGE OF ORLAND PARK

FILE NAME =  
D:\60N09-SHT-50002.dgn

USER NAME = TKIuegl	DESIGNED - MJT	REVISED -
PLOT SCALE = 1:50	DRAWN - MJT	REVISED -
PLOT DATE = 1/7/2011	CHECKED - TRK	REVISED -
	DATE - 12/17/10	REVISED -

STATE OF ILLINOIS  
DEPARTMENT OF TRANSPORTATION

SUMMARY OF QUANTITIES

SCALE: N.T.S. SHEET NO. 2 OF 5 SHEETS STA. TO STA.

F.A.P. RTE. 330	SECTION 2010-135-1	COUNTY COOK	TOTAL SHEETS 101	SHEET NO. 5
S0-02			CONTRACT NO. 60N09	
ILLINOIS FED. AID PROJECT				

CODE NO.	ITEM	UNIT	TOTAL QUANTITY	CONSTRUCTION CODE						
				ROADWAY US 45/143RD	TRACK RELOCATION	LANDSCAPING		PLATFORM	VILLAGE OF ORLAND PARK	
				80% FED 20% STATE 0003	80% FED 20% STATE 0021	80% FED 20% STATE 0003		80% FED 20% STATE 0003	100% VOP 0043	
60237460	INLETS, TYPE A, TYPE 23 FRAME AND GRATE	EACH	1	1						
60250200	CATCH BASINS TO BE ADJUSTED	EACH	1						1	
60255500	MANHOLES TO BE ADJUSTED	EACH	2	1					1	
60500040	REMOVING MANHOLES	EACH	1	1						
60500050	REMOVING CATCH BASINS	EACH	7	2					2	3
60500060	REMOVING INLETS	EACH	1	1						
60600605	CONCRETE CURB, TYPE B	FOOT	226							226
60603800	COMBINATION CONCRETE CURB AND GUTTER, TYPE B-6.12	FOOT	124	124						
60605000	COMBINATION CONCRETE CURB AND GUTTER, TYPE B-6.24	FOOT	125	125						
60618300	CONCRETE MEDIAN SURFACE, 4 INCH	SO FT	1,150	1,150						
66400105	CHAIN LINK FENCE, 4'	FOOT	305							305
• 66900200	NON-SPECIAL WASTE DISPOSAL	CU YD	5,561	5,561						
• 66900450	SPECIAL WASTE PLANS AND REPORTS	L SUM	1	1						
• 66900530	SOIL DISPOSAL ANALYSIS	EACH	3	3						
X6700410	ENGINEER'S FIELD OFFICE, TYPE A (SPECIAL)	CAL MO	12	12						
67100100	MOBILIZATION	L SUM	1	1						
70106800	CHANGEABLE MESSAGE SIGN	CAL MO	7	7						
73700100	REMOVE GROUND MOUNTED SIGN SUPPORT	EACH	1						1	
• 78000200	THERMOPLASTIC PAVEMENT MARKING - LINE 4"	FOOT	300	300						
• 78000400	THERMOPLASTIC PAVEMENT MARKING - LINE 6"	FOOT	575	575						
• 78000500	THERMOPLASTIC PAVEMENT MARKING - LINE 8"	FOOT	115	115						
• 78000600	THERMOPLASTIC PAVEMENT MARKING - LINE 12"	FOOT	99	99						
• 78000650	THERMOPLASTIC PAVEMENT MARKING - LINE 24"	FOOT	69	69						
* 78001110	PAINT PAVEMENT MARKING - LINE 4"	FOOT	325							325
* 81017515	CONDUIT IN TRENCH, 1 1/4" DIA., COILABLE NONMETALLIC CONDUIT	FOOT	157						157	
* 81702130	ELECTRIC CABLE IN CONDUIT, 600V (XLP-TYPE USE) 1/C NO. 6	FOOT	885						885	
* 81900200	TRENCH AND BACKFILL FOR ELECTRICAL WORK	FOOT	157						157	
* 83600300	LIGHT POLE FOUNDATION, 30" DIAMETER	FOOT	11						11	
* 84100110	REMOVAL OF TEMPORARY LIGHTING UNIT	EACH	3						3	
* 84200500	REMOVAL OF LIGHTING UNIT, SALVAGE	EACH	13						13	
* 84400105	RELOCATE EXISTING LIGHTING UNIT	EACH	1						1	
• 88600100	DETECTOR LOOP, TYPE I	FOOT	67	67						

• DENOTES SPECIALTY ITEM  
 VOP = VILLAGE OF ORLAND PARK

FILE NAME = D:\160N09-SHT-50003.dgn	USER NAME = TKIuegl	DESIGNED - MJT	REVISED -	<b>STATE OF ILLINOIS DEPARTMENT OF TRANSPORTATION</b>	<b>SUMMARY OF QUANTITIES</b>	F.A.P. RTE. 330	SECTION 2010-135-1	COUNTY COOK	TOTAL SHEETS 101	SHEET NO. 6
PLOT SCALE = 1:50	CHECKED - TRK	REVISED -	<b>SQ-03</b>			CONTRACT NO. 60N09				
PLOT DATE = 1/7/2011	DATE - 12/17/10	REVISED -	SCALE: N.T.S.			SHEET NO. 3 OF 5 SHEETS STA. TO STA.				
ILLINOIS FED. AID PROJECT										

CODE NO.	ITEM	UNIT	TOTAL QUANTITY	CONSTRUCTION CODE					
				ROADWAY US 45/143RD	TRACK RELOCATION	LANDSCAPING		PLATFORM	VILLAGE OF ORLAND PARK
				80% FED 20% STATE 0003	80% FED 20% STATE 0021	80% FED 20% STATE 0003		80% FED 20% STATE 0003	100% VOP 0043
89502380	REMOVE EXISTING HANDHOLE	EACH	8	2				6	
XX001249	ORNAMENTAL FENCE	FOOT	671						671
X0324534	REMOVE AND REINSTALL LIGHT POLES	L SUM	1	1					
X2500920	SEEDING, CLASS 1A (SPECIAL)	ACRE	0.1						0.1
X6063401	COMBINATION CONCRETE CURB AND GUTTER, TYPE M-4.12	FOOT	165	165					
X6063600	COMBINATION CONCRETE CURB AND GUTTER, TYPE M-4.24	FOOT	150	150					
X6640300	CHAIN LINK FENCE REMOVAL	FOOT	305						305
X7010216	TRAFFIC CONTROL AND PROTECTION, (SPECIAL)	L SUM	1	1					
X8140115	HANDHOLE TO BE ADJUSTED	EACH	1					1	
XX008438	TRAFFIC CONTROL AND PROTECTION FOR TEMPORARY DETOUR	EACH	2	2					
Z0001050	AGGREGATE SUBGRADE 12"	SO YD	848	698					150
Z0012455	CONCRETE STEP REMOVAL	EACH	10					4	6
Z0013798	CONSTRUCTION LAYOUT	L SUM	1	1					
△ Z0018500	DRAINAGE STRUCTURES TO BE CLEANED	EACH	3	3					
Z0030850	TEMPORARY INFORMATION SIGNING	SO FT	70.0	70.0					
Z0048665	RAILROAD PROTECTIVE LIABILITY INSURANCE	L SUM	1	1					
Z0050600	REMOVE AND RESET ORNAMENTAL FENCE	FOOT	475	475					
Z0050900	REMOVE CONCRETE FOUNDATION	EACH	15					15	
Z0064560	SEGMENTAL BLOCK RETAINING WALL	SO FT	950					950	
Z0067900	STEEL CASINGS 24"	FOOT	143						143
Z0069800	SUB-BALLAST	TON	7,997		7,997				
Z0075496	CONCRETE RETAINING WALL REMOVAL	FOOT	102	102					
<del>Z0076600</del>	<del>TRAINEES</del>	<del>HOUR</del>							
X0327146	RELOCATE BIKE RACK	EACH	1					1	
X0327147	REMOVE RAILROAD PLATFORM	SO FT	9,235					9,235	
Z0007126	HANDRAIL REMOVAL	FOOT	221					221	
X0327148	REMOVE INTERTRACK WIRE FENCE	FOOT	486					486	
Z0068400	STEEL CASINGS 42"	FOOT	65					65	
X0327149	RELOCATE BENCH	EACH	5					5	
X0327150	CONCRETE FOUNDATION (FURNISH ONLY)	FOOT	11					11	
X0327151	CONDUIT, 3/4" DIA., GALVANIZED STEEL (FURNISH ONLY) <i>IN TRENCH</i>	FOOT	1,400					1,400	
X0327152	CONDUIT, 1" DIA., GALVANIZED STEEL (FURNISH ONLY) <i>IN TRENCH</i>	FOOT	375					375	

△ = Non-participating  
• DENOTES SPECIALTY ITEM  
VOP = VILLAGE OF ORLAND PARK

FILE NAME = D1620N09-SHT-50004.dgn	USER NAME = TKJuegel	DESIGNED - MJT	REVISED -	<b>STATE OF ILLINOIS DEPARTMENT OF TRANSPORTATION</b>	<b>SUMMARY OF QUANTITIES</b>			F.A.P. RTE. 330	SECTION 2010-135-1	COUNTY COOK	TOTAL SHEETS 101	SHEET NO. 7			
PLOT SCALE = 1/8"=1'	CHECKED - TRK	REVISED -	SCALE: N.T.S.					SHEET NO. 4 OF 5 SHEETS	STA.	TO STA.	<b>SQ-04</b>		CONTRACT NO. 60N09		
PLOT DATE = 1/7/2011	DATE - 12/17/10	REVISED -	ILLINOIS FED. AID PROJECT												

CODE NO.	ITEM	UNIT	TOTAL QUANTITY	CONSTRUCTION CODE						
				ROADWAY US 45/143RD 80% FED 20% STATE 0003	TRACK RELOCATION 80% FED 20% STATE 0021	LANDSCAPING 80% FED 20% STATE 0003		PLATFORM 80% FED 20% STATE 0003	VILLAGE OF ORLAND PARK 100% VOP 0043	
X0327153	CONDUIT <sup>IN TRENCH</sup> 1 1/2" DIA., GALVANIZED STEEL (FURNISH ONLY)	FOOT	1,350						1,350	
X0327154	HANDHOLE, PORTLAND CEMENT CONCRETE (FURNISH ONLY)	EACH	2						2	
X0327155	ELECTRIC CABLE IN CONDUIT, 600V (XLP-TYPE USE) 1/C NO. 10 (FURNISH ONLY)	FOOT	1,700						1,700	
X0327156	ELECTRIC CABLE IN CONDUIT, 600V (XLP-TYPE USE) 1/C NO. 8 (FURNISH ONLY)	FOOT	5,100						5,100	
X0327157	AERIAL CABLE, 3-1/C NO. 8 WITH MESSENGER WIRE (FURNISH ONLY)	FOOT	325						325	
X0327158	TRENCH AND BACKFILL FOR ELECTRICAL WORK (FURNISH ONLY)	FOOT	1,750						1,750	
X0327159	LIGHT POLE, WOOD, 20 FOOT, CLASS 5 (FURNISH ONLY)	EACH	1						1	
X0327160	LIGHT POLE, WOOD, 40 FOOT, CLASS 3 (FURNISH ONLY)	EACH	2						2	
X0327161	LIGHT POLE FOUNDATION, 30" DIAMETER (FURNISH ONLY)	FOOT	143						143	
X0327162	LIGHT POLE, SPECIAL (DECORATIVE ORNAMENTAL) (FURNISH ONLY)	EACH	12						12	
X0327163	LUMINAIRE (FURNISH ONLY)	EACH	12						12	
X0327164	HOT-MIX ASPHALT RAILROAD STATION PLATFORM (FURNISH ONLY)	SQ FT	12,845						12,845	
X0327165	CONCRETE RAILROAD STATION PLATFORM (FURNISH ONLY)	SQ FT	4,218						4,218	
X0327166	INTERTRACK WIRE FENCE (FURNISH ONLY)	FOOT	1,178						1,178	
X0327167	PEDESTRIAN CROSSWALK (FURNISH ONLY)	SQ FT	300						300	
X0327168	TEMPORARY PEDESTRIAN CROSSWALK (FURNISH ONLY)	SQ FT	300						300	
X0327169	TEMPORARY ISLAND BOARDING PLATFORM (FURNISH ONLY)	SQ FT	1,440						1,440	
XX003668	PRECONSTRUCTION VIDEOTAPING	L SUM	1							1

\* DENOTES SPECIALTY ITEM  
VOP = VILLAGE OF ORLAND PARK

FILE NAME D:\62909-SHT-50005.dgn	USER NAME = TKluegel
PLOT SCALE = 1:50	PLOT DATE = 1/7/2011

DESIGNED - MJT	REVISED -
DRAWN - MJT	REVISED -
CHECKED - TRK	REVISED -
DATE - 12/17/10	REVISED -

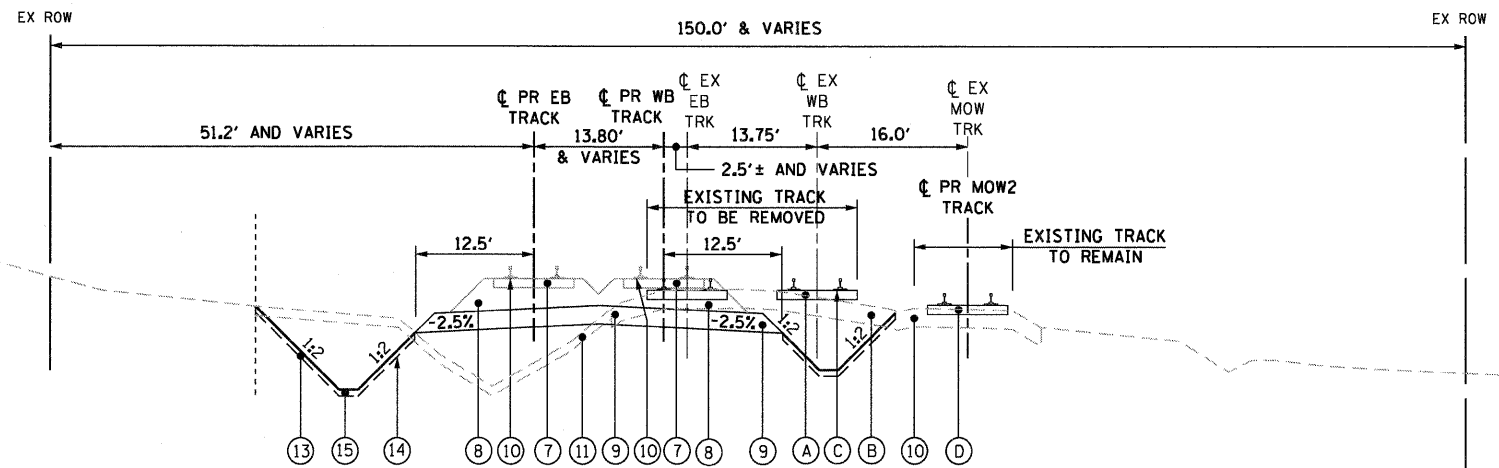
STATE OF ILLINOIS  
DEPARTMENT OF TRANSPORTATION

SUMMARY OF QUANTITIES

SCALE: N.T.S. SHEET NO. 5 OF 5 SHEETS STA. TO STA.

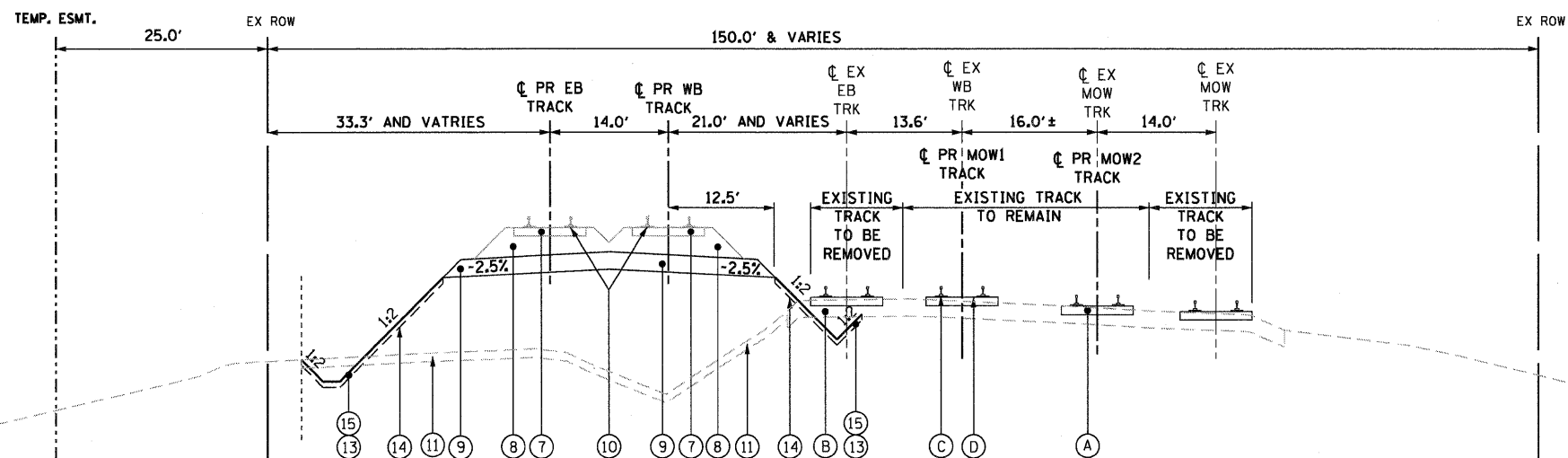
F.A.P. RTE. 330	SECTION 2010-135-I	COUNTY COOK	TOTAL SHEETS 101	SHEET NO. 8
SQ-05			CONTRACT NO. 60N09	
ILLINOIS FED. AID PROJECT				





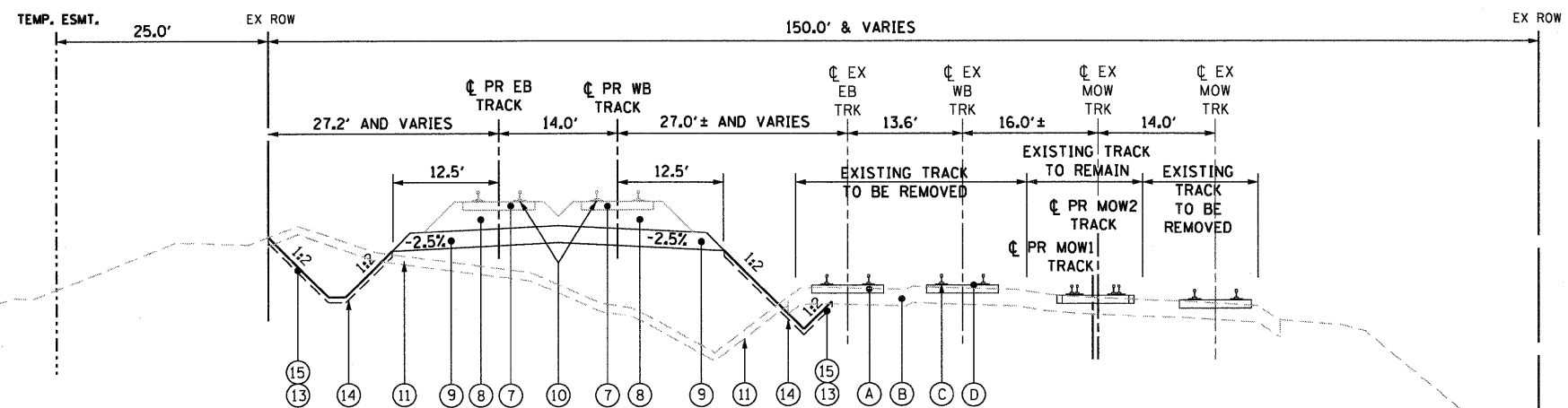
**TYPICAL SECTION**

BEGIN PROJECT  
STA. 4170+58.10 TO STA. 4177+80.00



**TYPICAL SECTION**

STA. 4177+00 TO STA. 4187+56.60



**TYPICAL SECTION**

STA. 4187+56.60 TO STA. 4191+83±

**EXISTING LEGEND**

- (A) 12" BALLAST
- (B) 12" SUB-BALLAST
- (C) RAILS
- (D) TIMBER CROSS TIE
- (E) SIDEWALK
- (F) PLATFORM

**PROPOSED LEGEND**

- (1) HOT-MIX ASPHALT SURFACE COURSE, MIX "D", N50 1 1/2"
- (2) BITUMINOUS MATERIALS (PRIME COAT)
- (3) HOT-MIX ASPHALT BINDER COURSE, IL-19.0 N50 2 1/4"
- (4) PORTLAND CEMENT CONCRETE BASE COURSE 9"
- (5) AGGREGATE SUBGRADE 12"
- (6) CONCRETE MEDIAN
- (7) CROSS TIES
- (8) 12" BALLAST
- (9) 12" SUB-BALLAST
- (10) RAILS
- (11) TOPSOIL STRIPPING, 4" (NOTE 5)
- (12) TIERED SEGMENTAL BLOCK WALL
- (13) TOPSOIL FURNISH AND PLACE, 4"
- (14) GEOTECHNICAL FABRIC FOR GROUND STABILIZATION (NOTE 4)
- (15) SODDING, SALT TOLERANT
- (16) EMBANKMENT
- (17) HOT-MIX ASPHALT SURFACE COURSE, MIX "D", N50 (2")
- (18) AGGREGATE (PRIME COAT)
- (19) AGGREGATE BASE COURSE, TYPE B 6"
- (20) CONCRETE GUTTER, TYPE B

**NOTES:**

1. ALL BALLAST, TIES, RAILS AND APPURTENANCES SHALL BE SUPPLIED AND INSTALLED BY METRA.
2. STATIONS REFER TO WB C & B PROPOSED TRACK.
3. CROWN IN SUB-BALLAST SHALL BE CENTERED BETWEEN EB C PROPOSED TRACK AND WB C PROPOSED TRACK AT AN ELEVATION OF 2.06' BELOW PROPOSED TOP OF RAIL. HOWEVER, THIS ELEVATION DOES NOT APPLY WHEN THERE IS NO CROWN IN THE BALLAST.
4. GEOTECHNICAL FABRIC SHALL BE PLACED AT ALL LOCATIONS WHERE TOPSOIL OR SOD WILL BE UNDERLAIN BY EXISTING SUB-BALLAST.
5. PAID FOR AS "REMOVAL AND DISPOSAL OF UNSUITABLE MATERIAL."

FILE NAME =	USER NAME = TKluogel
D162029-SHT-TYPICAL01.dgn	
PLOT SCALE = 1/10	
PLOT DATE = 12/29/2010	

DESIGNED - BA	REVISED -
DRAWN - BA	REVISED -
CHECKED - MJT	REVISED -
DATE - 12/17/10	REVISED -

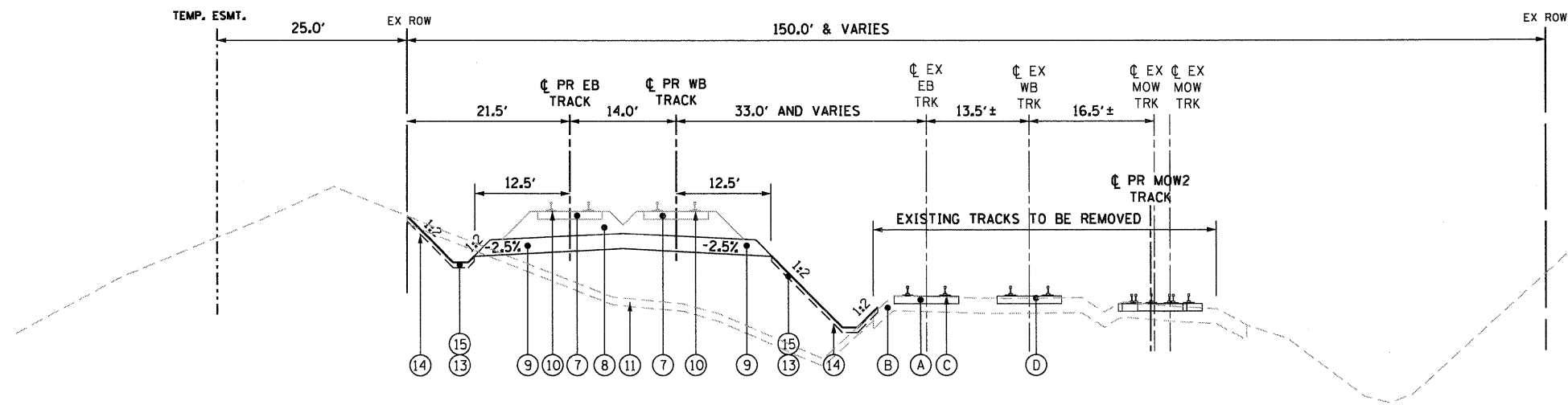
DESIGNED - BA	REVISED -
DRAWN - BA	REVISED -
CHECKED - MJT	REVISED -
DATE - 12/17/10	REVISED -

**STATE OF ILLINOIS  
DEPARTMENT OF TRANSPORTATION**

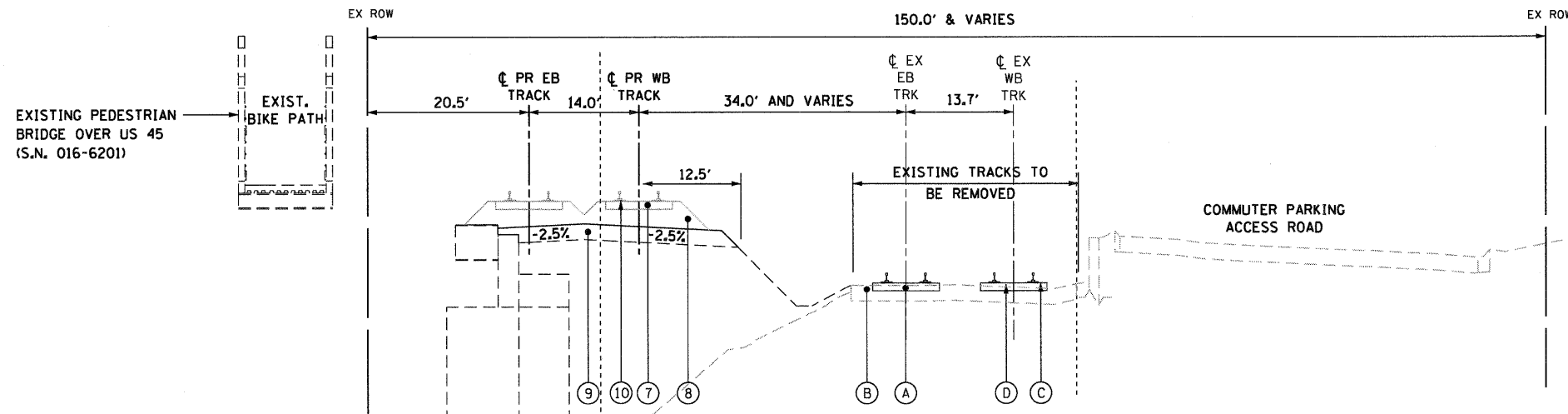
**TYPICAL SECTIONS**

SCALE: N.T.S. SHEET NO. 1 OF 4 SHEETS STA. TO STA.

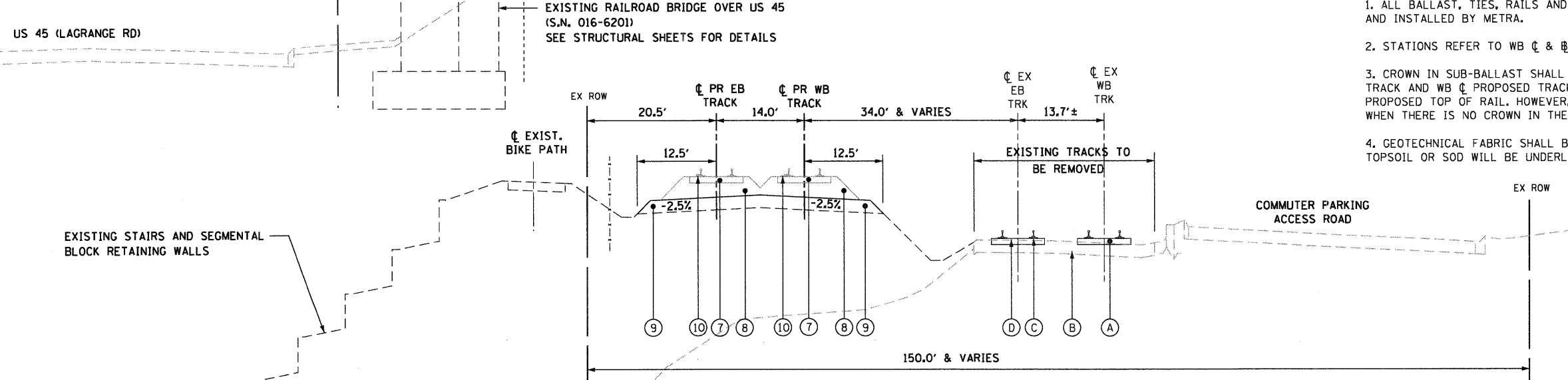
F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
330	2010-135-1	COOK	101	9
<b>TS-01</b>			<b>CONTRACT NO. 60N09</b>	
ILLINOIS FED. AID PROJECT				



**TYPICAL SECTION**  
STA. 4191+83 TO STA. 4195+00



**TYPICAL SECTION @ RAILROAD BRIDGE**  
STA. 4195+00 TO STA. 4197+50



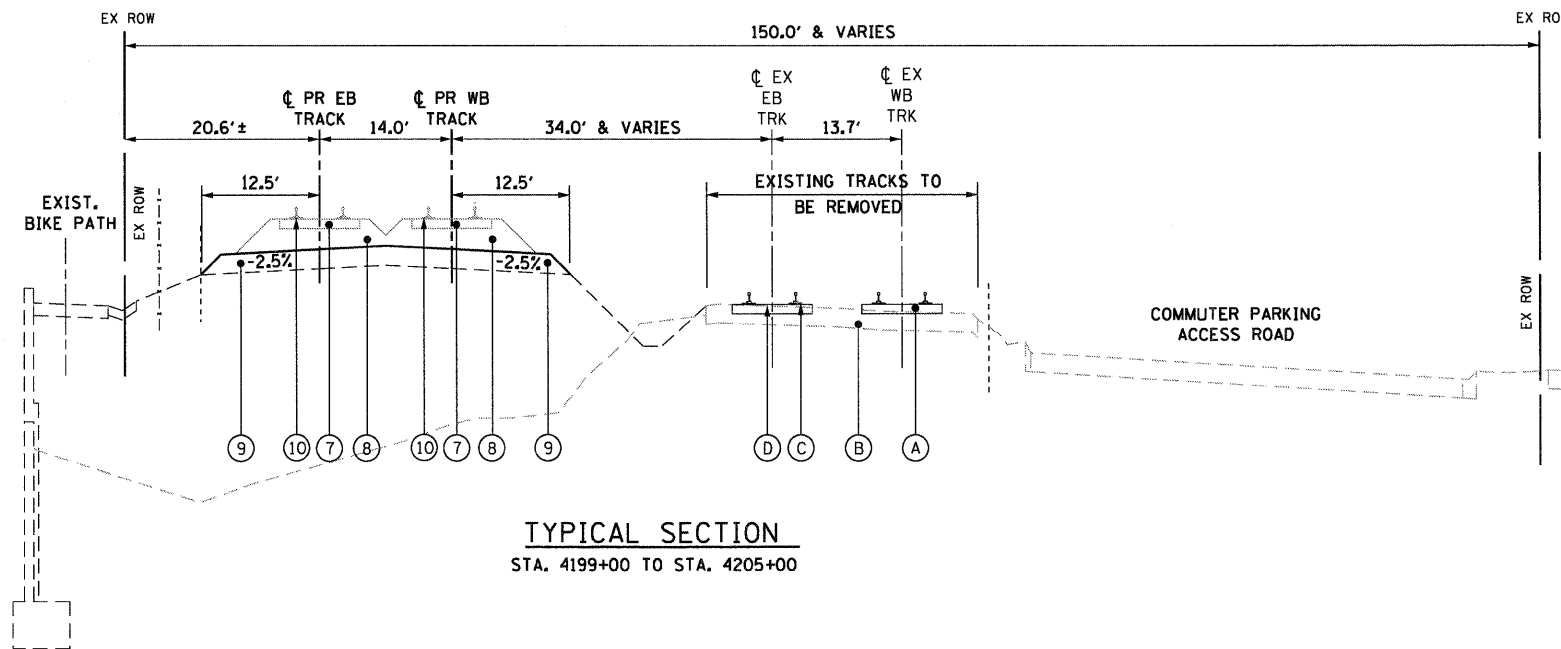
**TYPICAL SECTION ADJACENT TO BIKE PATH**  
STA. 4197+50 TO STA. 4199+00

- EXISTING LEGEND**
- (A) 12" BALLAST
  - (B) 12" SUB-BALLAST
  - (C) RAILS
  - (D) TIMBER CROSS TIE
  - (E) SIDEWALK
  - (F) PLATFORM
- PROPOSED LEGEND**
- (1) HOT-MIX ASPHALT SURFACE COURSE, MIX "D", N50 1 1/2"
  - (2) BITUMINOUS MATERIALS (PRIME COAT)
  - (3) HOT-MIX ASPHALT BINDER COURSE, IL-19.0 N50 2 1/4"
  - (4) PORTLAND CEMENT CONCRETE BASE COURSE 9"
  - (5) AGGREGATE SUBGRADE 12"
  - (6) CONCRETE MEDIAN
  - (7) CROSS TIES
  - (8) 12" BALLAST
  - (9) 12" SUB-BALLAST
  - (10) RAILS
  - (11) TOPSOIL STRIPPING, 4" (NOTE 5)
  - (12) TIERED SEGMENTAL BLOCK WALL
  - (13) TOPSOIL FURNISH AND PLACE, 4"
  - (14) GEOTECHNICAL FABRIC FOR GROUND STABILIZATION (NOTE 4)
  - (15) SODDING, SALT TOLERANT
  - (16) EMBANKMENT
  - (17) HOT-MIX ASPHALT SURFACE COURSE, MIX "D", N50 (2")
  - (18) AGGREGATE (PRIME COAT)
  - (19) AGGREGATE BASE COURSE, TYPE B 6"
  - (20) CONCRETE GUTTER, TYPE B

- NOTES:**
1. ALL BALLAST, TIES, RAILS AND APPURTENANCES SHALL BE SUPPLIED AND INSTALLED BY METRA.
  2. STATIONS REFER TO WB  $\text{C}$  &  $\text{E}$  PROPOSED TRACK.
  3. CROWN IN SUB-BALLAST SHALL BE CENTERED BETWEEN EB  $\text{C}$  PROPOSED TRACK AND WB  $\text{C}$  PROPOSED TRACK AT AN ELEVATION OF 2.06' BELOW PROPOSED TOP OF RAIL. HOWEVER, THIS ELEVATION DOES NOT APPLY WHEN THERE IS NO CROWN IN THE BALLAST.
  4. GEOTECHNICAL FABRIC SHALL BE PLACED AT ALL LOCATIONS WHERE TOPSOIL OR SOD WILL BE UNDERLAIN BY EXISTING SUB-BALLAST.

McDonough Associates Inc.  
 Engineers / Architects  
 130 East Randolph Street, Chicago, Illinois 60601

FILE NAME = D162ND9-SHT-TYPICAL02.dgn	USER NAME = TKluegel	DESIGNED - BA	REVISED -	<b>STATE OF ILLINOIS DEPARTMENT OF TRANSPORTATION</b>	<b>TYPICAL SECTIONS</b>			F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.	
PLOT SCALE = 1:10	CHECKED - MJT	REVISIED -	REVISIED -		SCALE: N.T.S.	SHEET NO. 2 OF 4 SHEETS	STA.	TO STA.	330	2010-135-1	COOK	101	10
PLOT DATE = 12/29/2010	DATE - 12/17/10	REVISIED -	REVISIED -					<b>TS-02</b>		CONTRACT NO. 60N09			
								ILLINOIS FED. AID PROJECT					



**TYPICAL SECTION**  
STA. 4199+00 TO STA. 4205+00

**EXISTING LEGEND**

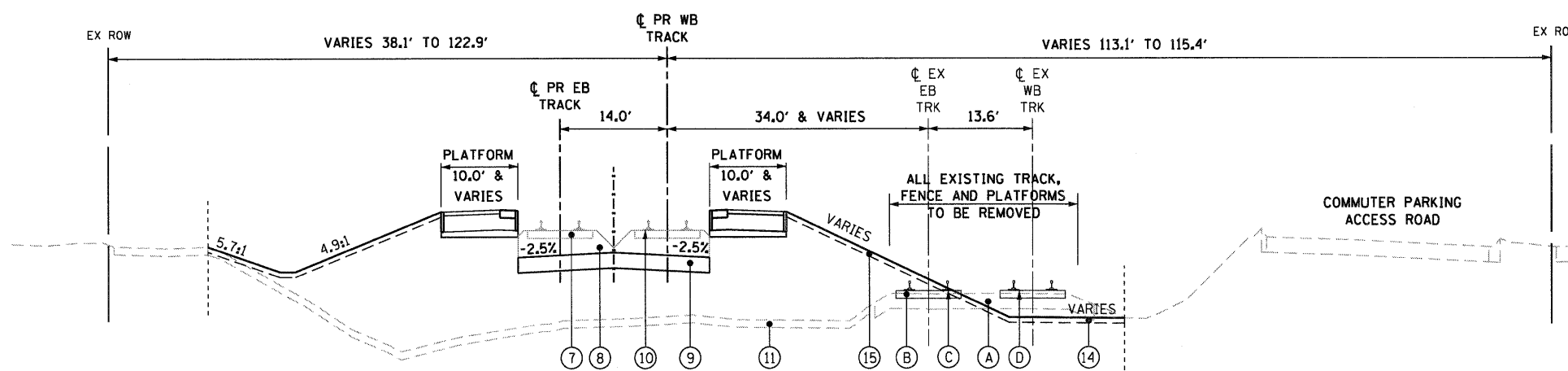
- (A) 12" BALLAST
- (B) 12" SUB-BALLAST
- (C) RAILS
- (D) TIMBER CROSS TIE
- (E) SIDEWALK
- (F) PLATFORM

**PROPOSED LEGEND**

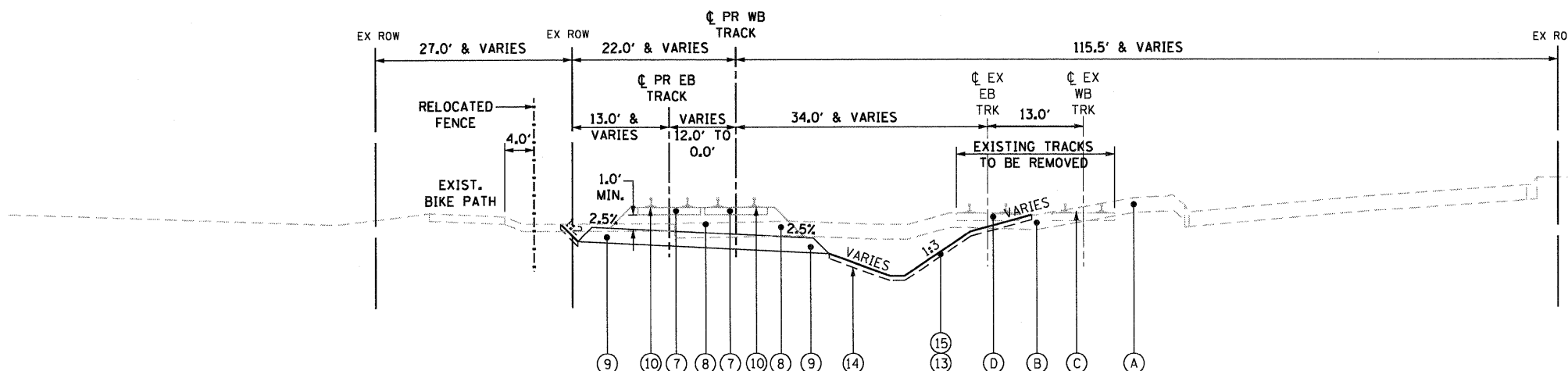
- (1) HOT-MIX ASPHALT SURFACE COURSE, MIX "D", N50 1 1/2"
- (2) BITUMINOUS MATERIALS (PRIME COAT)
- (3) HOT-MIX ASPHALT BINDER COURSE, IL-19.0 N50 2 1/4"
- (4) PORTLAND CEMENT CONCRETE BASE COURSE 9"
- (5) AGGREGATE SUBGRADE 12"
- (6) CONCRETE MEDIAN
- (7) CROSS TIES
- (8) 12" BALLAST
- (9) 12" SUB-BALLAST
- (10) RAILS
- (11) TOPSOIL STRIPPING, 4" (NOTE 5)
- (12) TIERED SEGMENTAL BLOCK WALL
- (13) TOPSOIL FURNISH AND PLACE, 4"
- (14) GEOTECHNICAL FABRIC FOR GROUND STABILIZATION (NOTE 4)
- (15) SODDING, SALT TOLERANT
- (16) EMBANKMENT
- (17) HOT-MIX ASPHALT SURFACE COURSE, MIX "D", N50 (2")
- (18) AGGREGATE (PRIME COAT)
- (19) AGGREGATE BASE COURSE, TYPE B 6"
- (20) CONCRETE GUTTER, TYPE B

**NOTES:**

1. ALL BALLAST, TIES, RAILS AND APPURTENANCES SHALL BE SUPPLIED AND INSTALLED BY METRA.
2. STATIONS REFER TO WB C & B PROPOSED TRACK.
3. CROWN IN SUB-BALLAST SHALL BE CENTERED BETWEEN EB C PROPOSED TRACK AND WB C PROPOSED TRACK AT AN ELEVATION OF 2.06' BELOW PROPOSED TOP OF RAIL. HOWEVER, THIS ELEVATION DOES NOT APPLY WHEN THERE IS NO CROWN IN THE BALLAST.
4. GEOTECHNICAL FABRIC SHALL BE PLACED AT ALL LOCATIONS WHERE TOPSOIL OR SOD WILL BE UNDERLAIN BY EXISTING SUB-BALLAST.
5. PAID FOR AS "REMOVAL AND DISPOSAL OF UNSUITABLE MATERIAL."



**TYPICAL SECTION**  
STA. 4205+00 TO STA. 4212+00



**TYPICAL SECTION**  
STA. 4212+00 TO STA. 4227+65.92

FILE NAME =	USER NAME = TK\uegal
D162ND9-SHT-TYPICAL03.dgn	
PLOT SCALE = 1/8" = 1'-0"	
PLOT DATE = 12/29/2010	

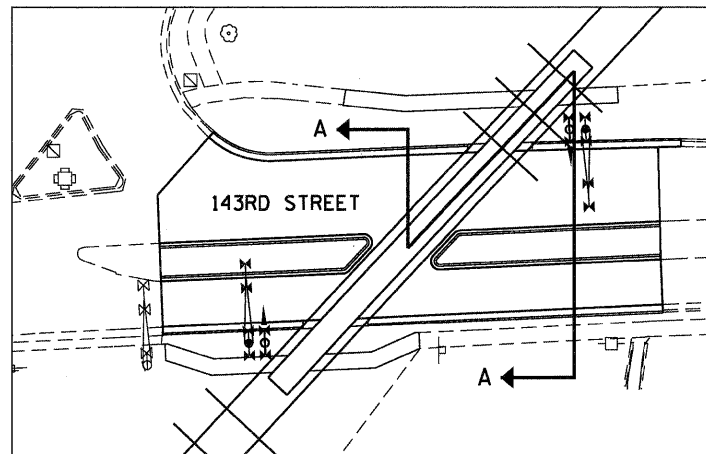
DESIGNED - BA	REVISED -
DRAWN - BA	REVISED -
CHECKED - MJT	REVISED -
DATE - 12/17/10	REVISED -

STATE OF ILLINOIS	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
DEPARTMENT OF TRANSPORTATION	2010-135-1	COOK	101	11
	<b>TS-03</b>			<b>CONTRACT NO. 60N09</b>

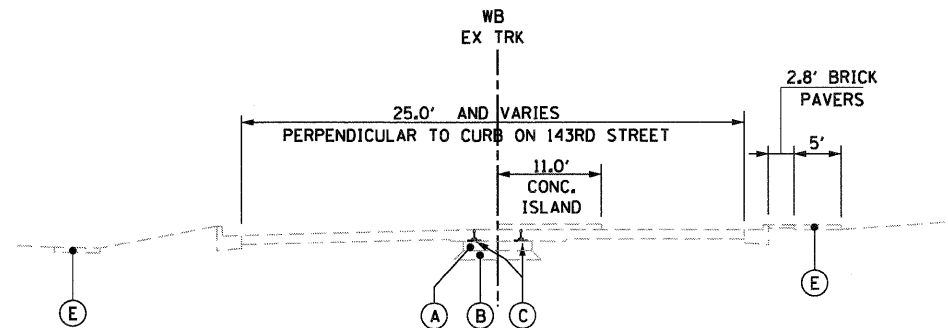
SCALE: N.T.S.	SHEET NO. 3 OF 4 SHEETS	STA. TO STA.
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<b>TYPICAL SECTIONS</b>				
SCALE: N.T.S.	SHEET NO. 3 OF 4 SHEETS	STA. TO STA.		

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
330	2010-135-1	COOK	101	11
<b>TS-03</b>				<b>CONTRACT NO. 60N09</b>
ILLINOIS FED. AID PROJECT				



LOCATION MAP



SECTION ACROSS 143RD STREET  
AT METRA TRACKS (EXISTING)

(GRADE CROSSING)

EXISTING LEGEND

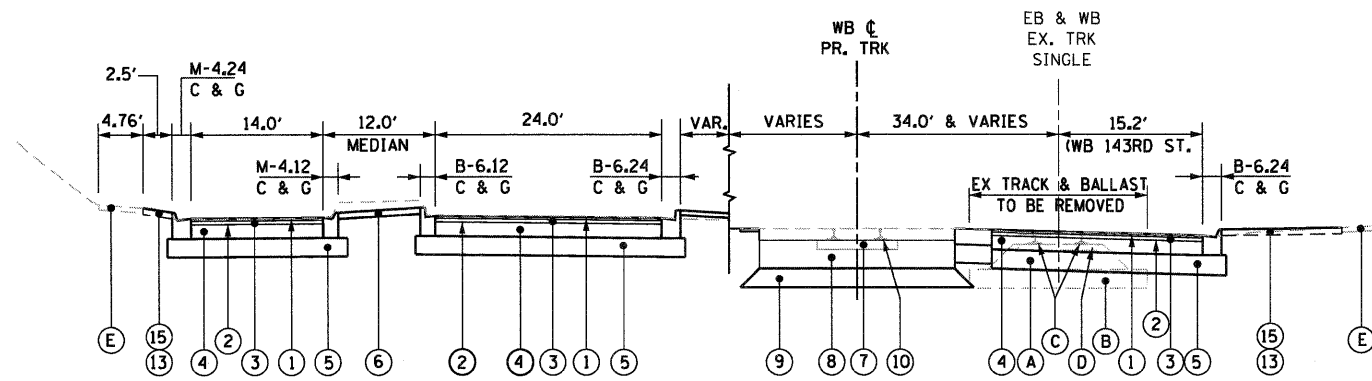
- (A) 12" BALLAST
- (B) 12" SUB-BALLAST
- (C) RAILS
- (D) TIMBER CROSS TIE
- (E) SIDEWALK
- (F) PLATFORM

PROPOSED LEGEND

- (1) HOT-MIX ASPHALT SURFACE COURSE, MIX "D", N50 1 1/2"
- (2) BITUMINOUS MATERIALS (PRIME COAT)
- (3) HOT-MIX ASPHALT BINDER COURSE, IL-19.0 N50 2 1/4"
- (4) PORTLAND CEMENT CONCRETE BASE COURSE 9"
- (5) AGGREGATE SUBGRADE 12"
- (6) CONCRETE MEDIAN
- (7) CROSS TIES
- (8) 12" BALLAST
- (9) 12" SUB-BALLAST
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- (11) TOPSOIL STRIPPING, 4" (NOTE 5)
- (12) TIERED SEGMENTAL BLOCK WALL
- (13) TOPSOIL FURNISH AND PLACE, 4"
- (14) GEOTECHNICAL FABRIC FOR GROUND STABILIZATION (NOTE 4)
- (15) SODDING, SALT TOLERANT
- (16) EMBANKMENT
- (17) HOT-MIX ASPHALT SURFACE COURSE, MIX "D", N50 (2")
- (18) AGGREGATE (PRIME COAT)
- (19) AGGREGATE BASE COURSE, TYPE B 6"
- (20) CONCRETE GUTTER, TYPE B

NOTES:

1. ALL BALLAST, TIES, RAILS AND APPURTENANCES SHALL BE SUPPLIED AND INSTALLED BY METRA.
2. STATIONS REFER TO WB  $\text{C}$  &  $\text{B}$  PROPOSED TRACK.
3. CROWN IN SUB-BALLAST SHALL BE CENTERED BETWEEN EB  $\text{C}$  PROPOSED TRACK AND WB  $\text{C}$  PROPOSED TRACK AT AN ELEVATION OF 2.06' BELOW PROPOSED TOP OF RAIL. HOWEVER, THIS ELEVATION DOES NOT APPLY WHEN THERE IS NO CROWN IN THE BALLAST.
4. GEOTECHNICAL FABRIC SHALL BE PLACED AT ALL LOCATIONS WHERE TOPSOIL OR SOD WILL BE UNDERLAIN BY EXISTING SUB-BALLAST.
5. PAID FOR AS "REMOVAL AND DISPOSAL OF UNSUITABLE MATERIAL."



SECTION A-A  
ACROSS 143RD STREET AT METRA TRACKS

(SEE LOCATION MAP)

HOT-MIX ASPHALT MIXTURE REQUIREMENTS	
MIXTURE TYPE	AIR VOIDS
<b>COMPOSITE PAVEMENT</b>	
HOT-MIX ASPHALT SURFACE COURSE, MIX "D", N50, 1 1/2"	4% @ 50 Gyr.
HOT-MIX ASPHALT BINDER COURSE, IL-19.0, N50, 2 1/4"	4% @ 50 Gyr.
<b>BIKE PATH</b>	
HOT-MIX ASPHALT SURFACE COURSE, MIX "D", N50, 2"	4% @ 50 Gyr.

NOTE 1: THE UNIT WEIGHT USED TO CALCULATE ALL HMA SURFACE MIXTURE QUANTITIES IS 112 LBS/SQ YD/IN.  
NOTE 2: FOR "AC TYPE" AND "PERCENT RAP" SEE DISTRICT ONE SPECIAL PROVISIONS.

FILE NAME =	USER NAME = TKluagl	DESIGNED - BA	REVISED -
DIG0N09-SHT-TYPICAL04.dgn		DRAWN - BA	REVISED -
	PLOT SCALE = 1:10	CHECKED - MJT	REVISED -
	PLOT DATE = 12/29/2010	DATE - 12/17/10	REVISED -

SCALE: N.T.S.	SHEET NO. 4 OF 4 SHEETS	STA. TO STA.	F.A.P. RTE. 330	SECTION 2010-135-1	COUNTY COOK	TOTAL SHEETS 101	SHEET NO. 12
			TS-04		CONTRACT NO. 60N09		
ILLINOIS FED. AID PROJECT							

EARTHWORK SCHEDULE WESTBOUND TRACK

BEGIN STATION	END STATION	EARTH EXCAVATION	REMOVAL AND DISPOSAL OF UNSUITABLE MATERIAL	EXCAVATION TO BE USED IN EMBANKMENT ADJUSTED FOR SHRINKAGE*	EMBANKMENT	EARTHWORK BALANCE WASTE (+) OR SHORTAGE (-)	SUB-BALLAST
		CU. YD.	CU. YD.	CU. YD.	CU. YD.	CU. YD.	CU. YD.
4169+00.00	4175+00.00	496	201	422	85	337	241
4175+00.00	4180+00.00	1,676	410	1,425	771	654	364
4180+00.00	4185+00.00	51	547	43	5,714	-5,671	647
4185+00.00	4190+00.00	348	546	296	4,817	-4,521	705
4190+00.00	4195+00.00	434	552	369	2,981	-2,612	705
4195+00.00	4200+00.00	3,960	52	3,366	354	3,012	387
4200+00.00	4205+00.00	30	0	26	120	-94	705
4205+00.00	4210+00.00	169	627	144	5,209	-5,065	489
4210+00.00	4215+00.00	951	434	808	1,365	-557	537
4215+00.00	4220+00.00	1,276	142	1,085	67	1,018	560
4220+00.00	4225+00.00	2,027	16	1,723	74	1,649	475
4225+00.00	4227+00.00	1,073	0	912	0	912	336
<b>SUB TOTAL</b>		<b>12,491</b>	<b>3,527</b>	<b>10,619</b>	<b>21,557</b>	<b>-10,938</b>	<b>6,151</b>

EARTHWORK SUMMARY

DESCRIPTION	QUANTITY	UNIT
EARTH EXCAVATION	12,491	CU YD
FURNISHED EXCAVATION	10,938	CU YD
REMOVAL AND DISPOSAL OF UNSUITABLE MATERIAL	3,527	CU YD
SUB-BALLAST	6,151	CU YD

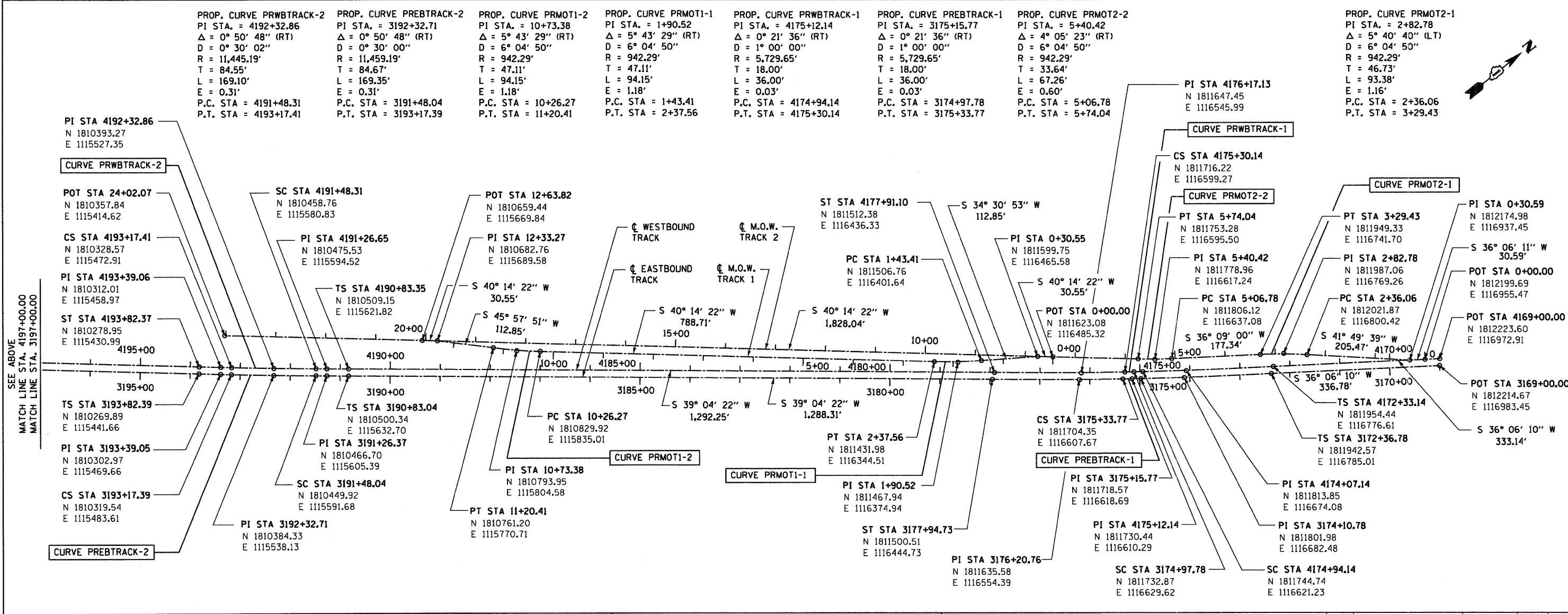
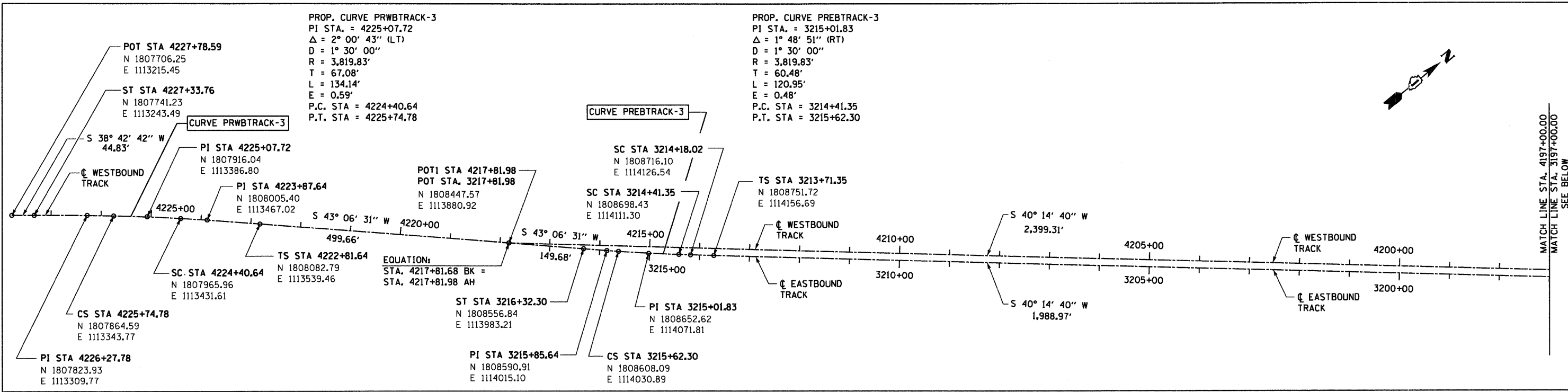
NOTE: SUB-BALLAST CALCULATED AT 1.3 TONS PER CUBIC YARD

EROSION CONTROL SCHEDULE

	28000250	28000305	28000400	28000500	28000510	Z0023202	Z0023206	X0324045	Z0013796	X0324775
	TEMPORARY EROSION CONTROL SEEDING	TEMPORARY DITCH CHECKS	PERIMETER EROSION BARRIER	INLET AND PIPE PROTECTION	INLET FILTERS	SEDIMENT CONTROL, DRAINAGE STRUCTURE	SEDIMENT CONTROL, SILT FENCE	SEDIMENT CONTROL, STABILIZED CONSTRUCTION	SEDIMENT CONTROL, STABILIZED CONSTRUCTION	SEDIMENT CONTROL, STABILIZED CONSTRUCTION
	POUND	FOOT	FOOT	EACH	EACH	INLET FILTER CLEANING EACH	MAINTENANCE FOOT	ENTRANCE REMOVAL EACH	ENTRANCE SQ YD	ENTRANCE MAINTENANCE SQ YD
SHEET										
EC-01 (Top)	28	180	415	-	6	30	125	-	-	-
EC-01 (Bottom)	99	200	385	1	6	30	116	-	-	-
EC-02 (Top)	37	440	2,310	1	-	-	693	1	269	539
EC-02 (Bottom)	43	240	720	-	2	10	216	-	-	-
SUB-TOTAL	210	1,060	3,830	2	14	70	1,150	1	270	540
AT THE ENGINEER'S DISCRETION	25	106	385	1	2	7	115	1	30	55
GRAND TOTAL	235	1,170	4,215	3	16	77	1,265	2	300	595

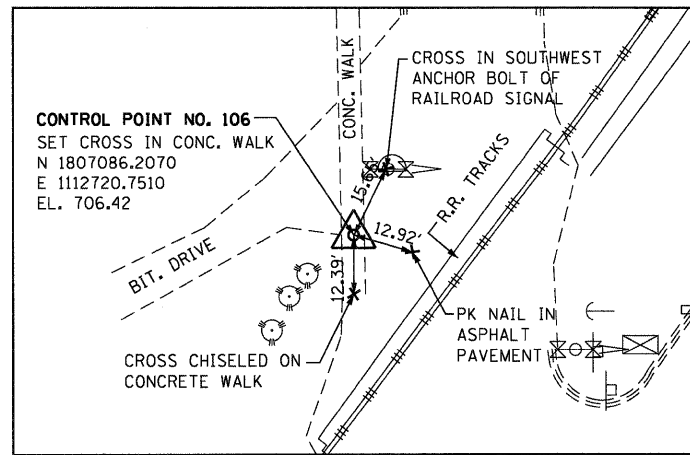
\* ASSUME 15% FOR SHRINKAGE

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PLOT SCALE = 1:50	CHECKED -	REVISOR -	REVISED -		SCALE:	SHEET NO. • OF • SHEETS	STA. TO STA.	<b>SC-01</b>		CONTRACT NO. 60N09		
PLOT DATE = 12/29/2010	DATE - 12/17/10	REVISOR -	REVISED -		ILLINOIS FED. AID PROJECT							



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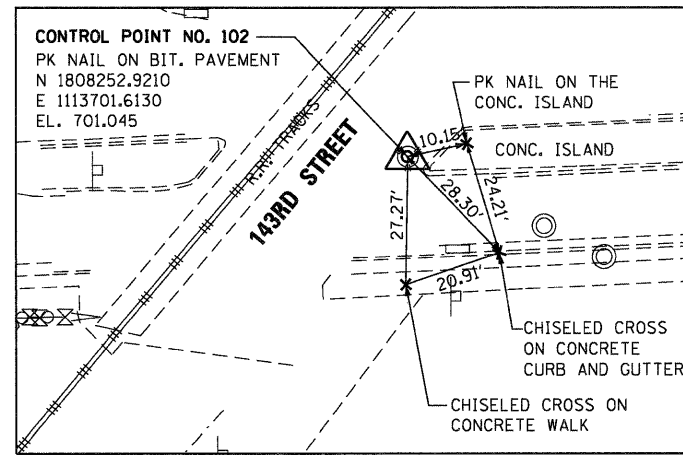
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PLOT SCALE = 1:1100	CHECKED - MJT	DATE - 12/17/10	REVISED -									SCALE: 1"=100'	SHEET NO. 1 OF 2 SHEETS	STA.	TO STA.	AT-01 CONTRACT NO. 60N09



CONTROL POINT NO. 106  
 SET CROSS IN CONC. WALK  
 N 1807086.2070  
 E 1112720.7510  
 EL. 706.42

**CONTROL POINT NO. 106**

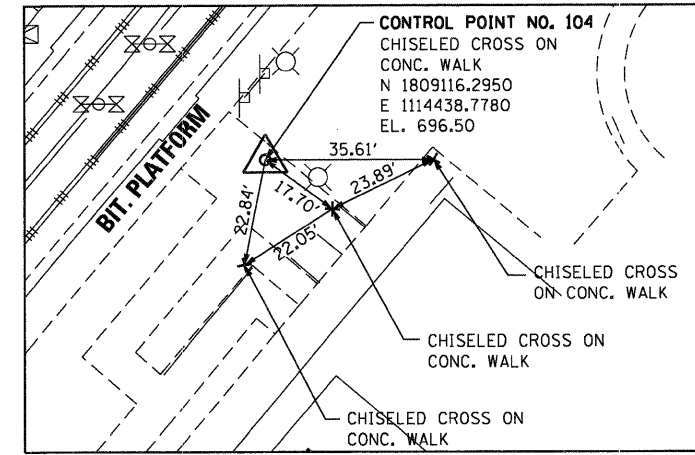
SCALE: 1" = 20'



CONTROL POINT NO. 102  
 PK NAIL ON BIT. PAVEMENT  
 N 1808252.9210  
 E 1113701.6130  
 EL. 701.045

**CONTROL POINT NO. 102**

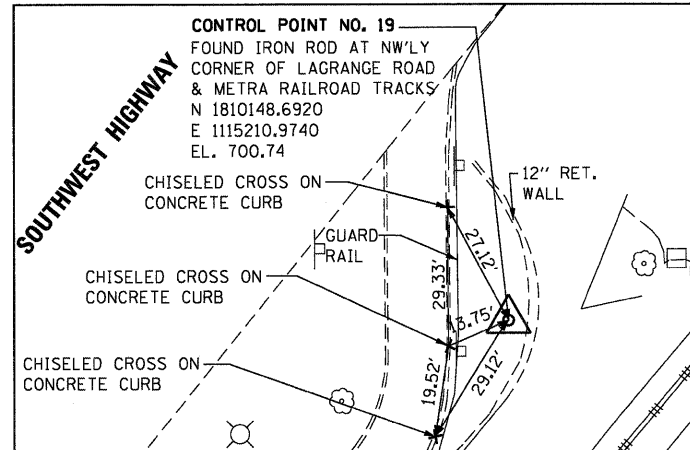
SCALE: 1" = 20'



CONTROL POINT NO. 104  
 CHISELED CROSS ON CONC. WALK  
 N 1809116.2950  
 E 1114438.7780  
 EL. 696.50

**CONTROL POINT NO. 104**

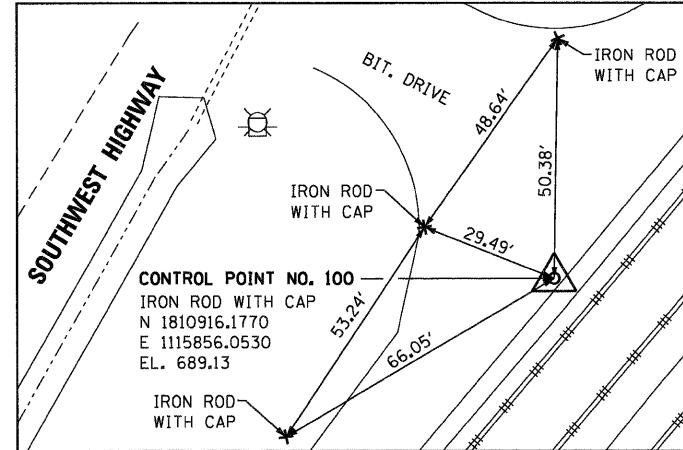
SCALE: 1" = 20'



CONTROL POINT NO. 19  
 FOUND IRON ROD AT NW'LY CORNER OF LAGRANGE ROAD & METRA RAILROAD TRACKS  
 N 1810148.6920  
 E 1115210.9740  
 EL. 700.74

**CONTROL POINT NO. 19**

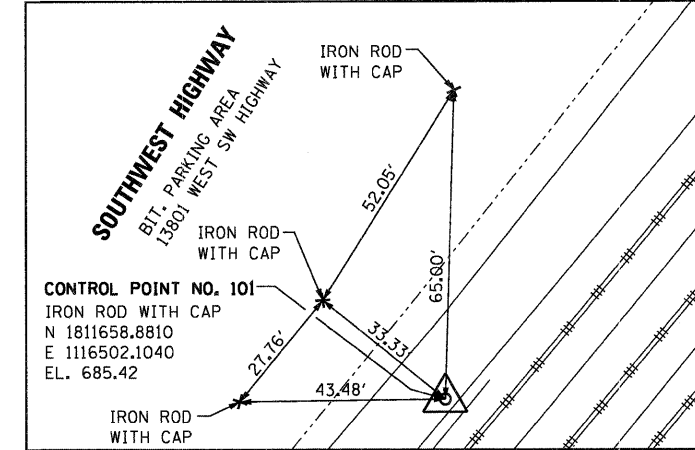
SCALE: 1" = 20'



CONTROL POINT NO. 100  
 IRON ROD WITH CAP  
 N 1810916.1770  
 E 1115856.0530  
 EL. 689.13

**CONTROL POINT NO. 100**

SCALE: 1" = 20'



CONTROL POINT NO. 101  
 IRON ROD WITH CAP  
 N 1811658.8810  
 E 1116502.1040  
 EL. 685.42

**CONTROL POINT NO. 101**

SCALE: 1" = 20'

**TEMPORARY BENCHMARK "E"**

CHISELED CROSS ON THE SW'LY ANCHOR BOLT OF THE SE'LY CANTILEVER RAILROAD CROSSING SIGNAL AT 143RD STREET.  
 N 1808297.2710  
 E 1113732.9280  
 EL. 702.165

CHISELED CROSS ON THE NE'LY ANCHOR BOLT OF THE ELECTRIC BILLBOARD SIGN, ±50' NW'LY OF SW'LY PLATFORM OF METRA STATION.  
 N 1808925.7770  
 E 1114323.0220  
 EL. 699.845

**TEMPORARY BENCHMARK "Z"**

CHISELED CROSS ON THE NE'LY BOLT OF W'LY LIGHT POLE ±60 FT. NORTH OF N'LY EDGE OF SOUTHWEST HIGHWAY BRIDGE.  
 N 1810394.3530  
 E 1115239.3170  
 EL. 678.745

**TEMPORARY BENCHMARK "F"**

SET RR SPIKE ON NE SIDE OF POWER POLE LOCATED WEST OF BITUMINOUS/GRAVEL DRIVEWAY, ±900 FT. E. OF LAGRANGE ROAD ±45 FT. SOUTH OF SOUTHWEST HIGHWAY.  
 N 1810949.7535  
 E 1115793.8830  
 EL. 682.63

**TEMPORARY BENCHMARK "G"**

SQUARE CUT ON SW CORNER OF CONCRETE PAD IN FRONT OF DOOR LOCATED ON THE SW'LY SIDE OF BUILDING ±25' FT. NW'LY OF MOST S'LY CORNER OF BUILDING AT 13801 SOUTHWEST HIGHWAY.  
 N 1811719.7226  
 E 1116435.5171  
 EL. 681.07

FILE NAME =	USER NAME = TKLuegel	DESIGNED -	BA	REVISED -	
D:\6009-SHT-AT02.dgn		DRAWN -	BA	REVISED -	
		CHECKED -	MJT	REVISED -	
		DATE -	12/17/10	REVISED -	

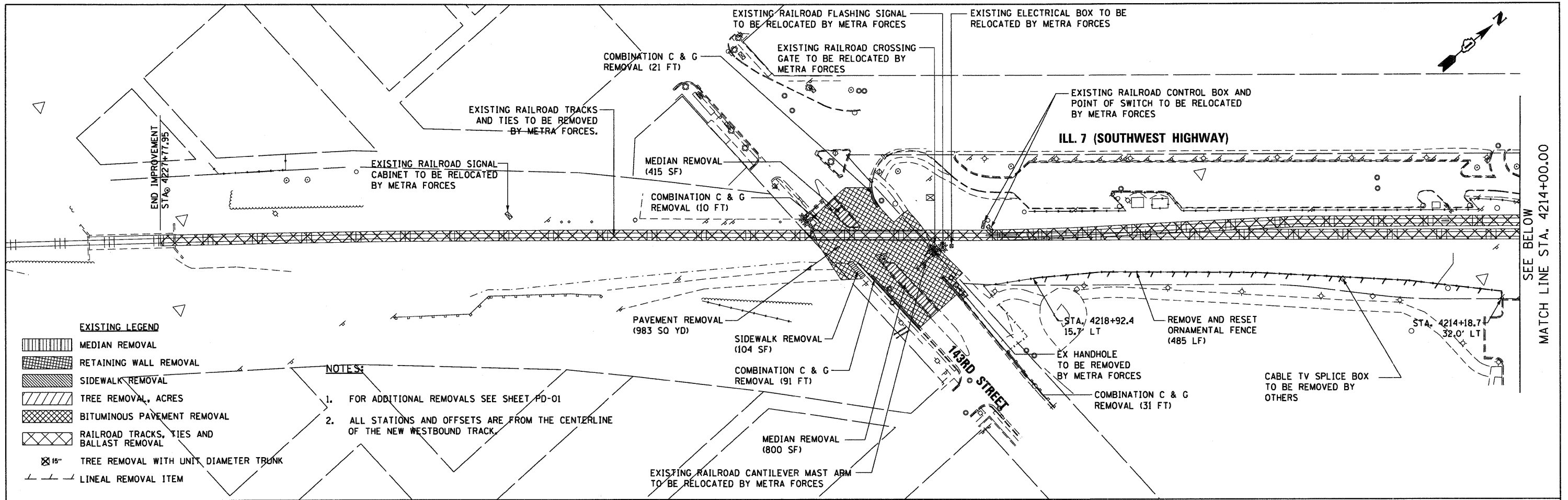
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PLOT DATE =	12/29/2010

STATE OF ILLINOIS	DEPARTMENT OF TRANSPORTATION
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<b>ALIGNMENT TIES AND BENCHMARKS</b>	
SCALE: 1"=100'	SHEET NO. 2 OF 2 SHEETS
STA.	TO STA.

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
330	2010-135-1	COOK	101	15
<b>AT-02</b>		<b>CONTRACT NO. 60N09</b>		
ILLINOIS FED. AID PROJECT				

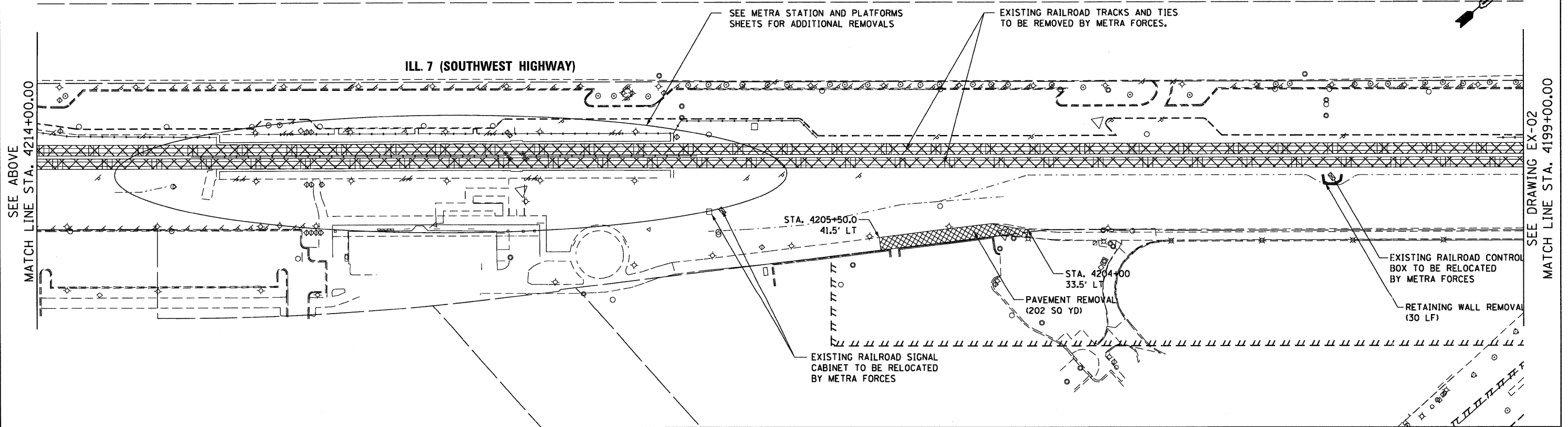
F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
330	2010-135-1	COOK	101	15
<b>AT-02</b>		<b>CONTRACT NO. 60N09</b>		
ILLINOIS FED. AID PROJECT				



**EXISTING LEGEND**

[Hatched Box]	MEDIAN REMOVAL
[Cross-hatched Box]	RETAINING WALL REMOVAL
[Diagonal Lines]	SIDEWALK REMOVAL
[Dotted Box]	TREE REMOVAL, ACRES
[Cross-hatched Box]	BITUMINOUS PAVEMENT REMOVAL
[X-hatched Box]	RAILROAD TRACKS, TIES AND BALLAST REMOVAL
[Circle with X]	TREE REMOVAL WITH UNIT DIAMETER TRUNK
[Dashed Line]	LINEAL REMOVAL ITEM

- NOTES**
1. FOR ADDITIONAL REMOVALS SEE SHEET PD-01
  2. ALL STATIONS AND OFFSETS ARE FROM THE CENTERLINE OF THE NEW WESTBOUND TRACK



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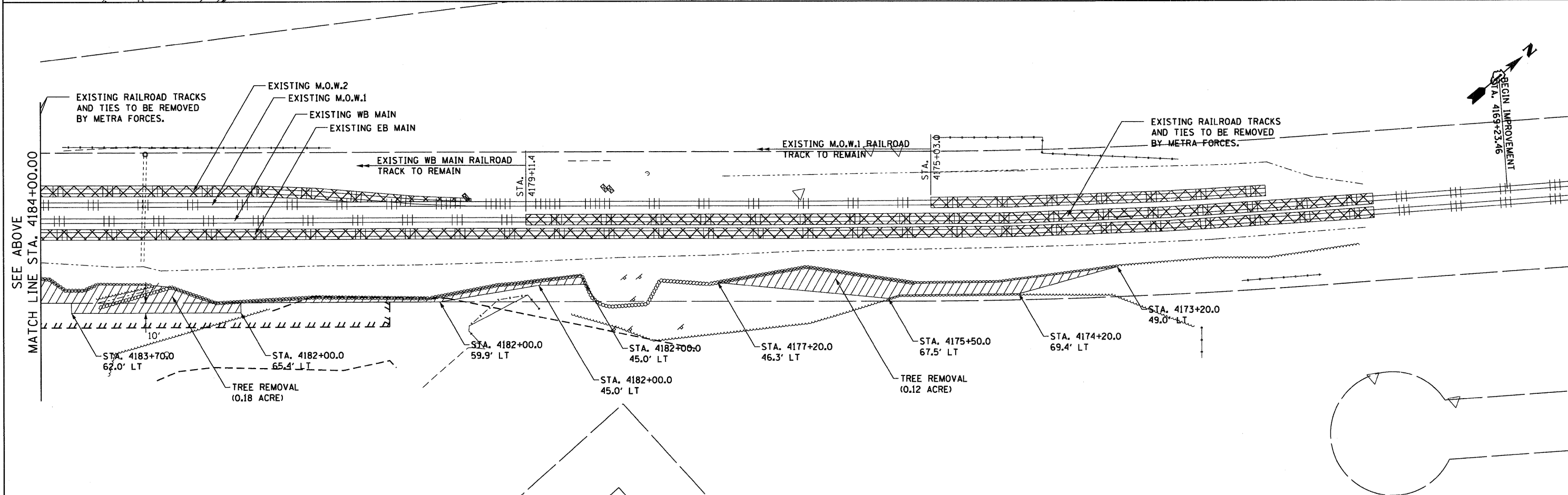
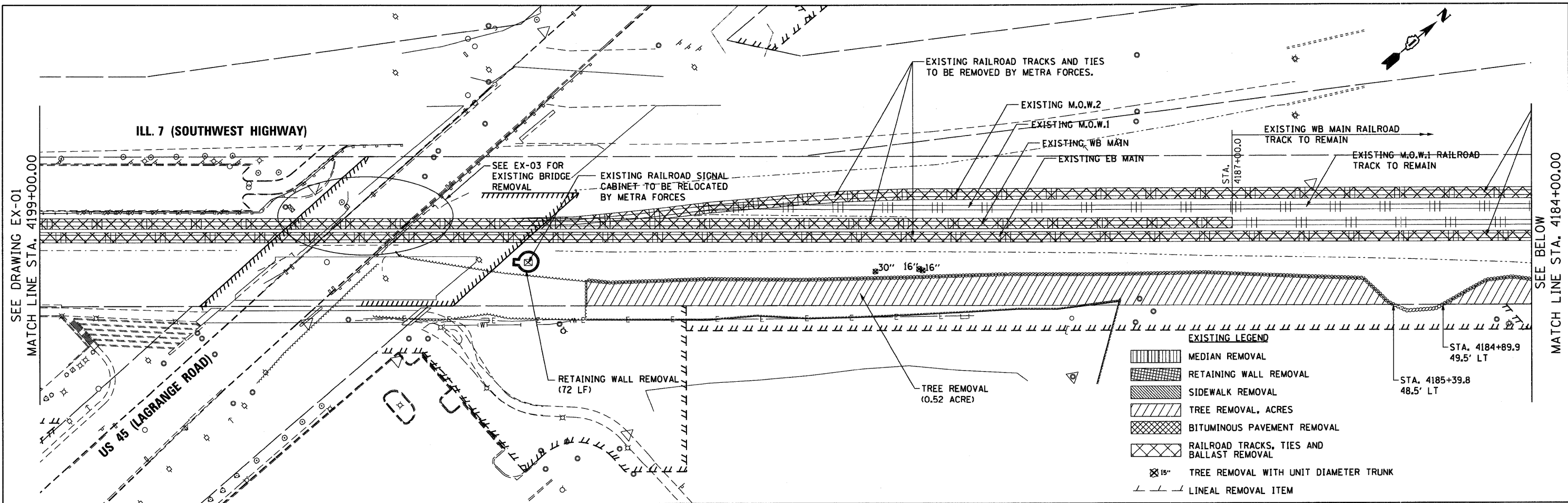
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PLOT DATE = 12/29/2010	DATE - 12/17/10	REVISIONS	REVISIONS

**STATE OF ILLINOIS**  
**DEPARTMENT OF TRANSPORTATION**

**EXISTING PLAN AND REMOVALS**  
 SCALE: 1"=50' SHEET NO. 1 OF 3 SHEETS STA. TO STA.

F.A.P. RTE. 330	SECTION 2010-135-1	COUNTY COOK	TOTAL SHEETS 101	SHEET NO. 16
<b>EX-01</b>			CONTRACT NO. 60N09	
ILLINOIS FED. AID PROJECT				



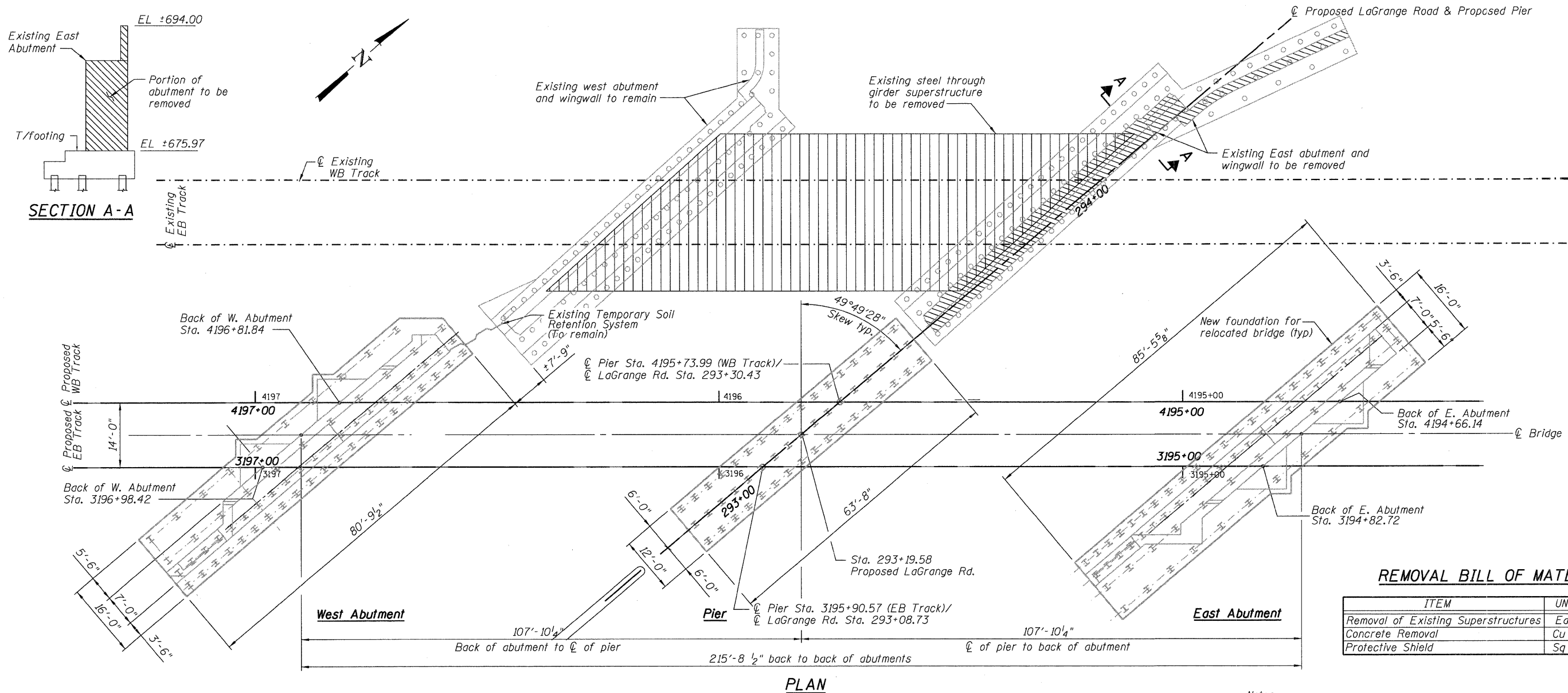


**EXISTING LEGEND**

	MEDIAN REMOVAL
	RETAINING WALL REMOVAL
	SIDEWALK REMOVAL
	TREE REMOVAL, ACRES
	BITUMINOUS PAVEMENT REMOVAL
	RAILROAD TRACKS, TIES AND BALLAST REMOVAL
	15" TREE REMOVAL WITH UNIT DIAMETER TRUNK
	LINEAL REMOVAL ITEM

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 130 East Randolph Street, Chicago, Illinois 60601

FILE NAME = D16209-SHT-REM02.dgn	USER NAME = TKIuegl	DESIGNED - BA	REVISED -	<b>STATE OF ILLINOIS DEPARTMENT OF TRANSPORTATION</b>	<b>EXISTING PLAN AND REMOVALS</b>		F.A.P. RTE. 330	SECTION 2010-135-1	COUNTY COOK	TOTAL SHEETS 101	SHEET NO. 17
PLOT SCALE = 1/50	CHECKED -	DRAWN - BA	REVISED -		SCALE: 1"=50'	SHEET NO. 2 OF 3 SHEETS	STA.	TO STA.	<b>EX-02</b>		CONTRACT NO. 60N09
PLOT DATE = 12/29/2010	DATE - 12/17/10	REVISOR -	REVISOR -		ILLINOIS FED. AID PROJECT						
		REVISOR -	REVISOR -								



**REMOVAL BILL OF MATERIAL**

ITEM	UNIT	TOTAL
Removal of Existing Superstructures	Each	1
Concrete Removal	Cu Yd	274
Protective Shield	Sq Yd	387

**Notes:**  
 Plan dimensions and details relative to existing structure have been taken from existing plans and are subject to nominal construction variations. It shall be the Contractor's responsibility to verify such dimensions and details in the field 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 the scope of work, however, the contractor will be paid for the quantity actually furnished or removed at the unit price.

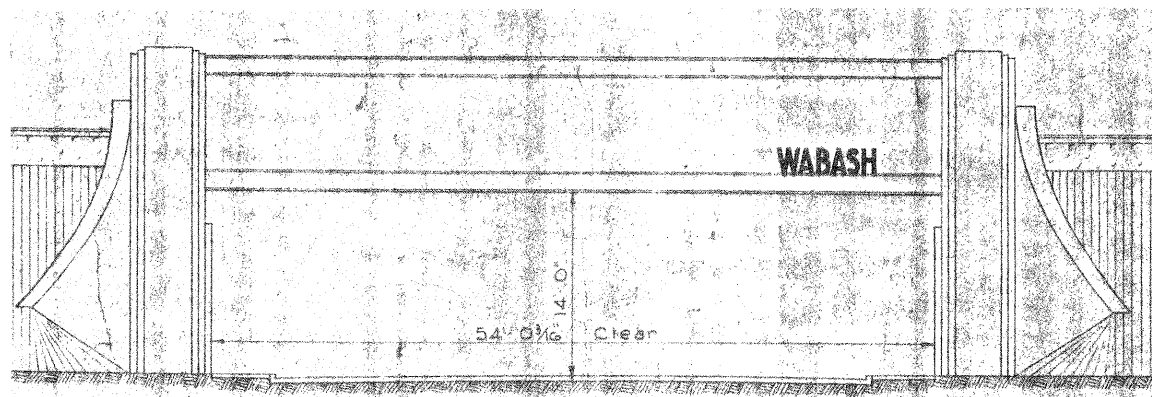
Upon completion of track removal, Contractor shall remove the existing superstructure and east abutment down to top of the footing. The west abutment is to remain in place.

The estimated total weight of structural steel removal is 502,848 pounds. This value is taken from existing plans and may not reflect actual conditions. This value should be only be used in aiding the contractor in bidding purposes.

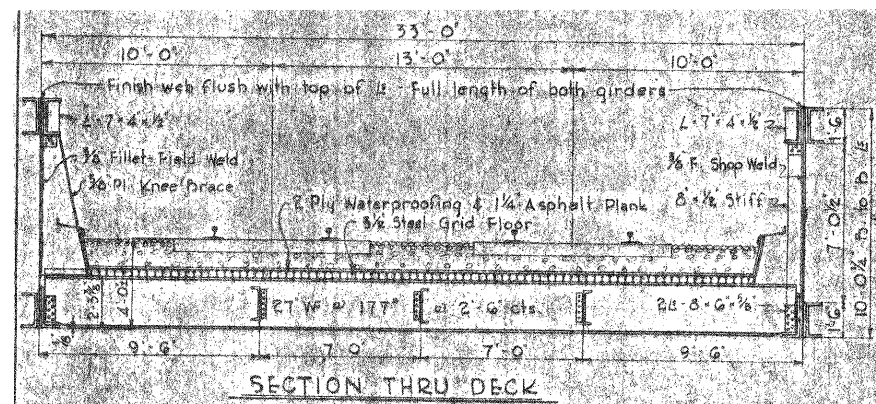
The Protective Shield should extend a minimum of 3 feet outside of the through girders.

Track and ties to be removed by Railroad forces. The Contractor is responsible for the removal of the remainder of the items on the superstructure and will not be paid for separately but included in the cost of Removal of Existing Superstructures.

The full set of existing bridge plans are available by contacting Metra and will be made available to the Contractor upon written request.



**EXISTING ELEVATION**



**EXISTING CROSS SECTION**

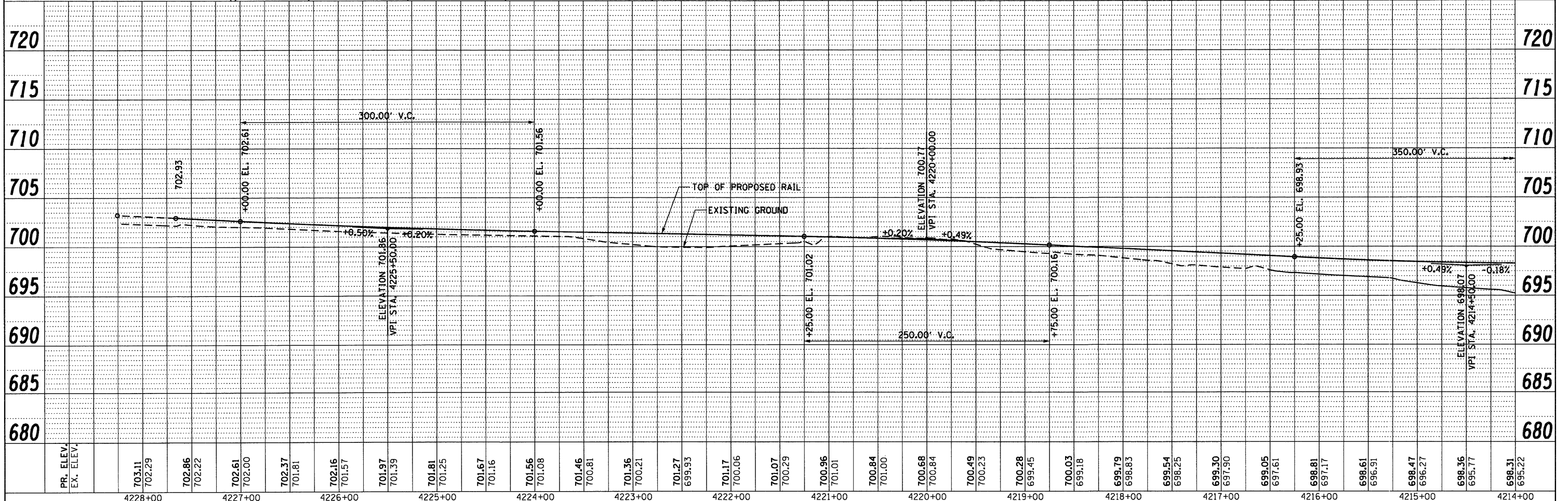
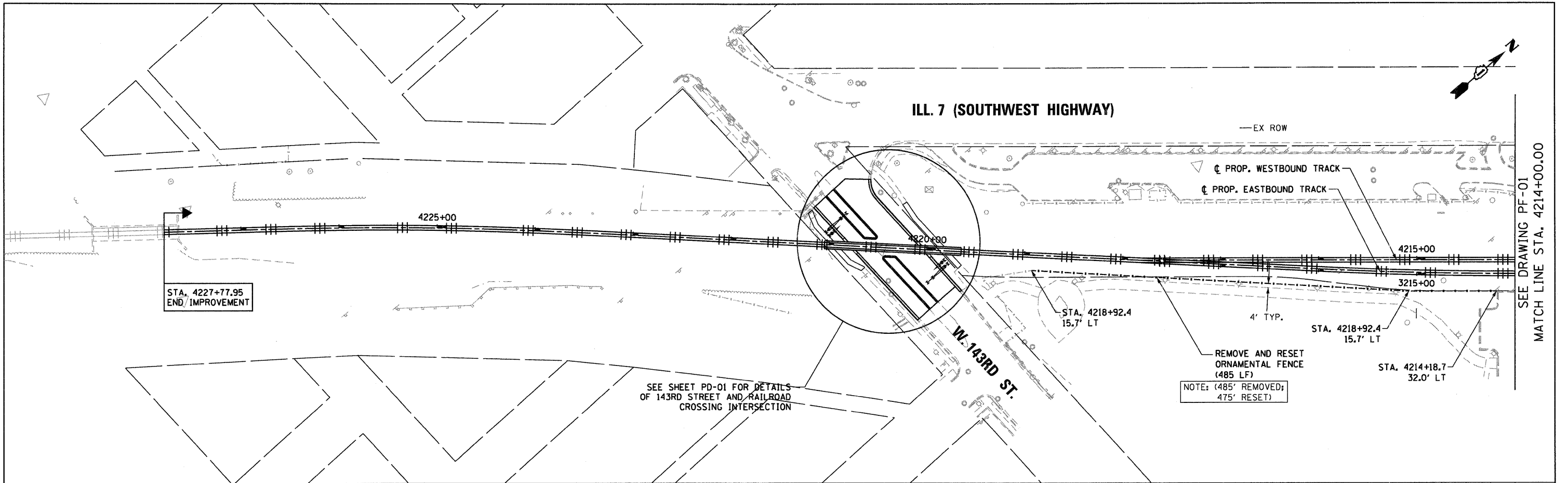
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PLOT DATE = 12/29/2010	DATE - 12/17/10		REVISED -

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
330	2010-135-1	COOK	101	18
EX-03			CONTRACT NO. 60N09	
ILLINOIS FED. AID PROJECT				

PLAN	SURVEYED	BY	DATE
	PLOTTED		
	ALIGNED		
	CHECKED		
	FILE NAME		
	NO.		

PROFILE	SURVEYED	BY	DATE
	PLOTTED		
	GRADES		
	CHECKED		
	STRUCTURE		
	NOTATIONS		
	CRD		
	NO.		

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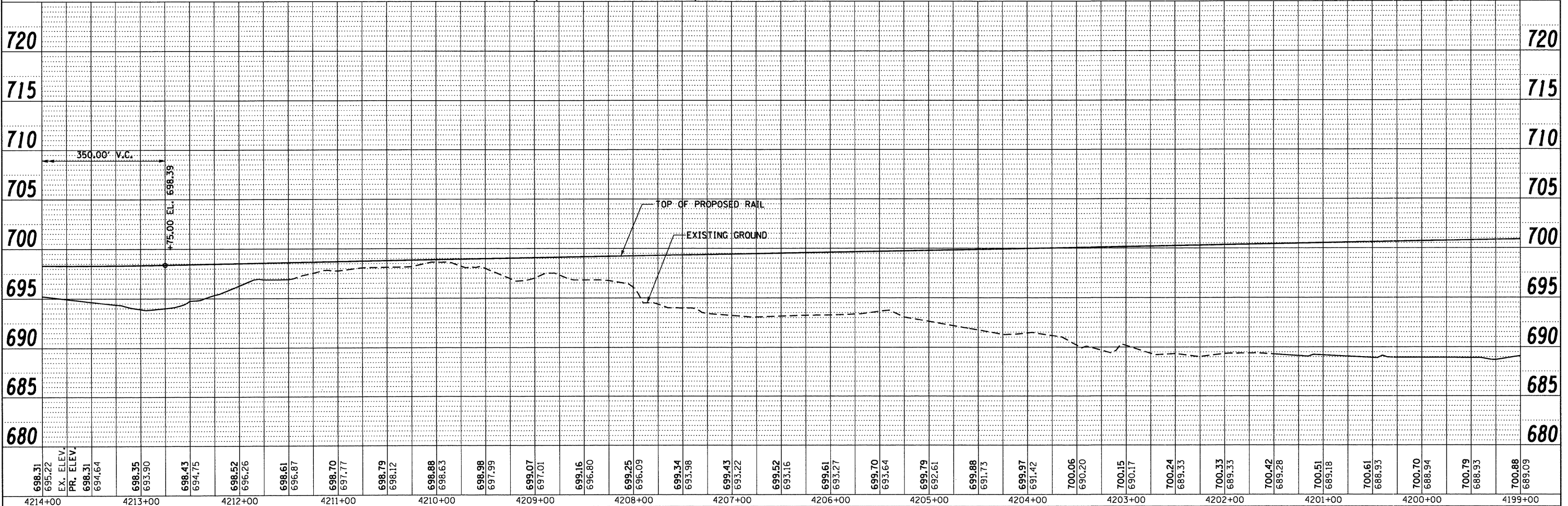
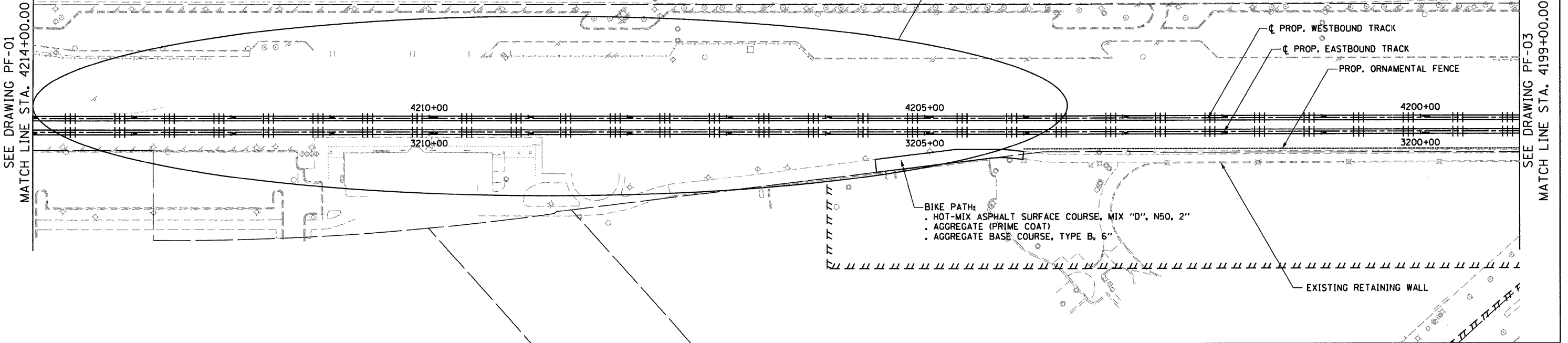


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PLOT SCALE = 1/8"=1'	CHECKED - MJT	REVISED -	SCALE 1"=50'H 1"=5' V			SHEET NO. 1 OF 4 SHEETS	STA. TO STA.	<b>PF-01</b>		CONTRACT NO. 60N09	(ILLINOIS) FED. AID PROJECT
PLOT DATE = 12/29/2010	DATE - 12/17/10	REVISED -									

SEE DRAWING PF-01  
MATCH LINE STA. 4214+00.00

**ILL. 7 (SOUTHWEST HIGHWAY)**

SEE METRA STATION AND PLATFORM SHEETS (MS-01 THRU MS-17 AND MSE-01 THRU MSE-09) FOR DETAILS



PLAN	REVISIONS	DATE
NO.	NO.	
NO.	NO.	
NO.	NO.	
NO.	NO.	
NO.	NO.	
NO.	NO.	
NO.	NO.	
NO.	NO.	
NO.	NO.	

PROFILE	REVISIONS	DATE
NO.	NO.	
NO.	NO.	
NO.	NO.	
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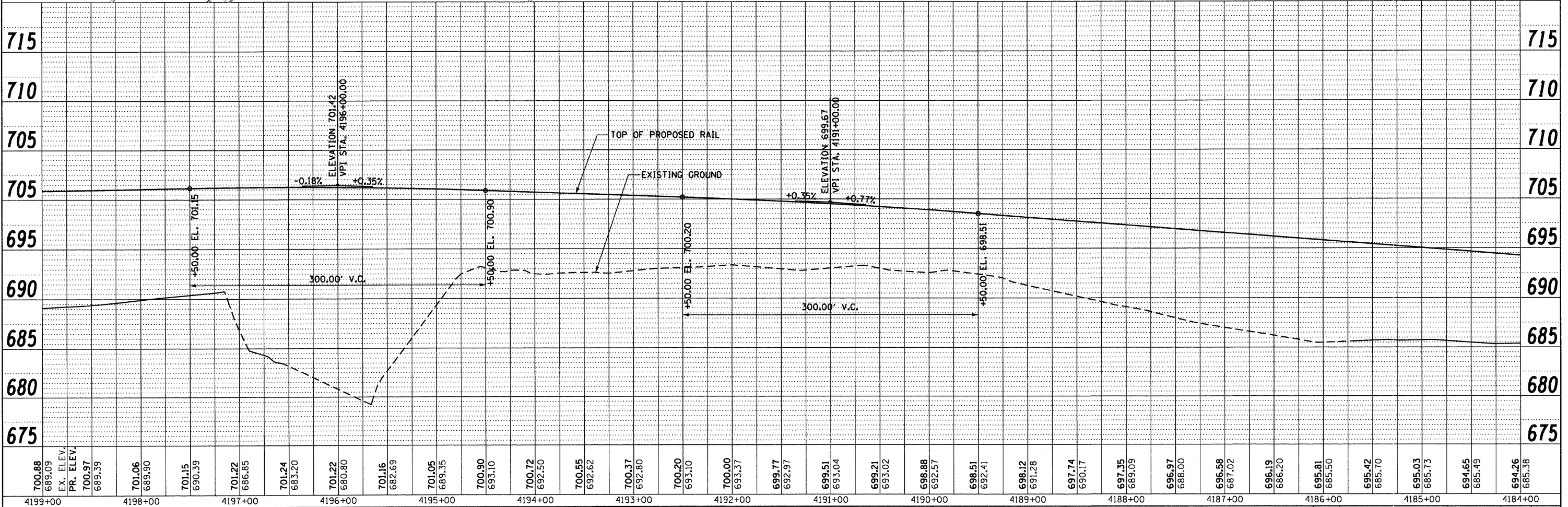
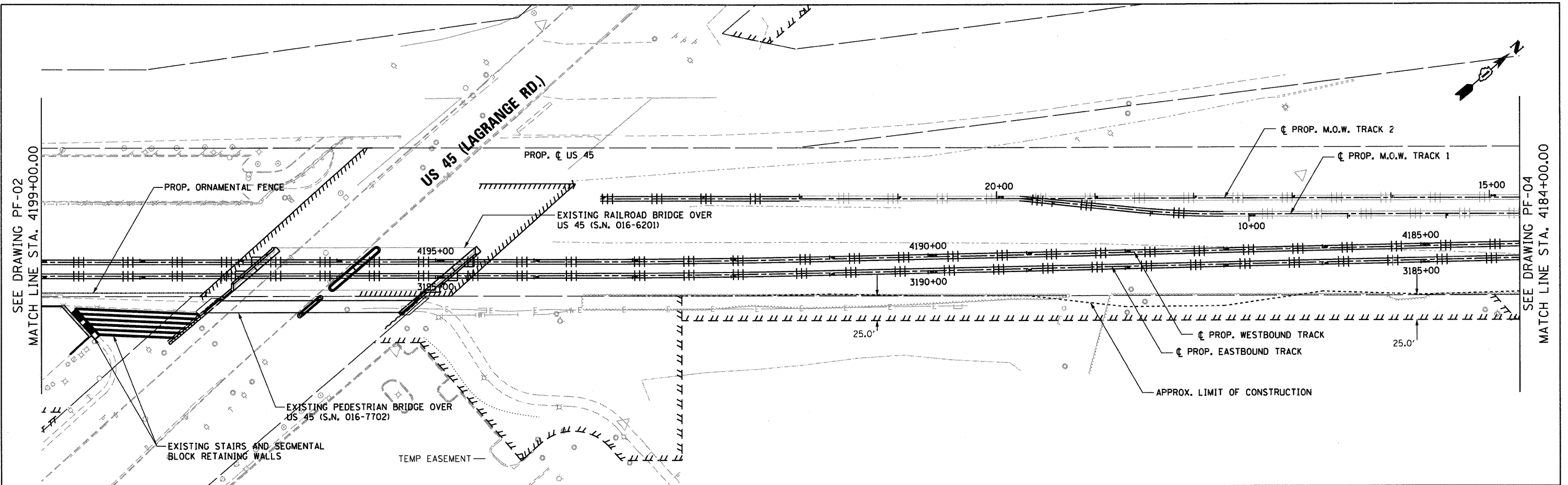
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PLOT SCALE = 1:50	CHECKED - MJT	REVISED -	CONTRACT NO. 60N09										
PLOT DATE = 12/29/2010	DATE - 12/17/10	REVISED -	ILLINOIS FED. AID PROJECT										

PLAN	REVISIONS	DATE
NO.	NO.	
BY	DATE	
REVIEWED	DATE	
DESIGNED	DATE	
DRAWN	DATE	
CHECKED	DATE	
APPROVED	DATE	

PROFILE	REVISIONS	DATE
NO.	NO.	
BY	DATE	
REVIEWED	DATE	
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CHECKED	DATE	
APPROVED	DATE	

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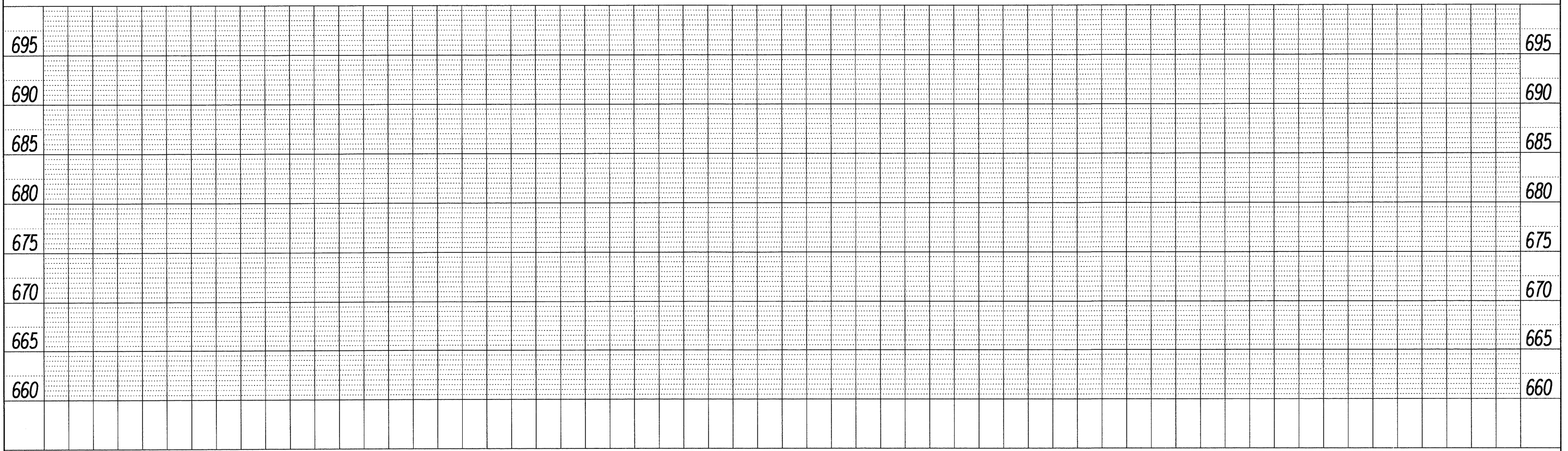
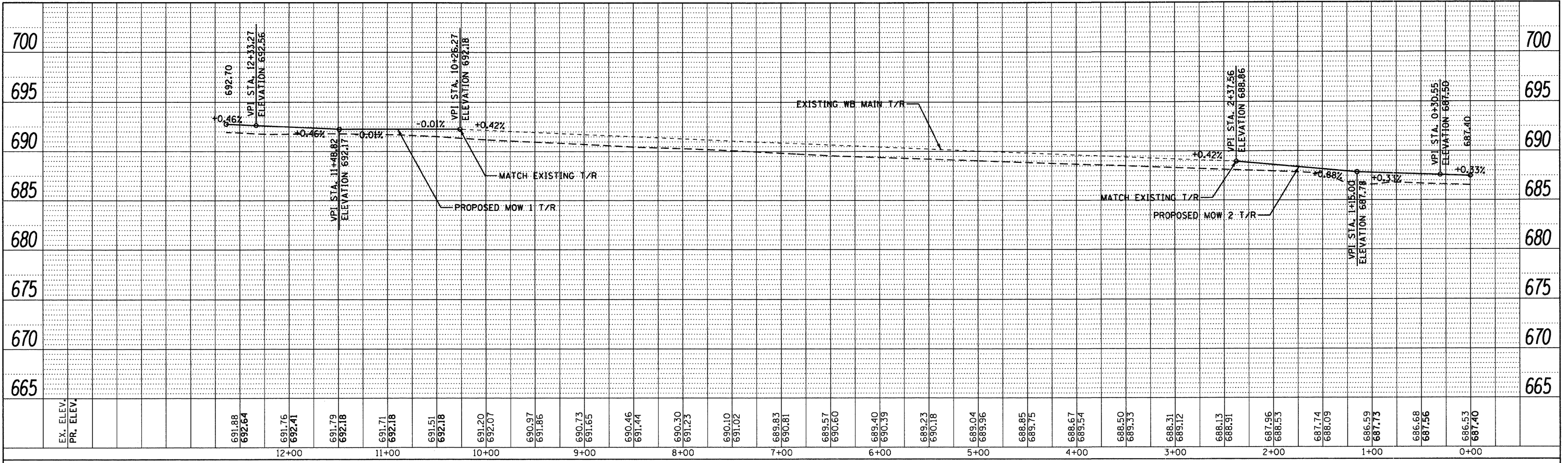


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PLOT DATE = 12/29/2010	DATE - 12/17/10	REVISED -				ILLINOIS FED. AID PROJECT					



PLAN	REVISIONS	DATE
NOTE BOOK	NO.	
CHECKED		
PLotted		
FILE NAME		

PROFILE	REVISIONS	DATE
NOTE BOOK	NO.	
CHECKED		
PLotted		
FILE NAME		



FILE NAME = D:\6209-SHT-PROF\PROF01.dgn

USER NAME = TKI\uegl  
 DESIGNED - TRK  
 DRAWN - TRK  
 CHECKED - MJT  
 DATE - 12/17/10

REVISED -  
 REVISED -  
 REVISED -  
 REVISED -

**STATE OF ILLINOIS  
 DEPARTMENT OF TRANSPORTATION**

**MAINTENANCE OF WAY TRACK PROFILE**

SCALE: H"=50' V"=5'    SHEET NO. 1 OF 2 SHEETS    STA.    TO STA.

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
330	2010-135-1	COOK	101	23
<b>RF-01</b>		CONTRACT NO. 60N09		
ILLINOIS FED. AID PROJECT				







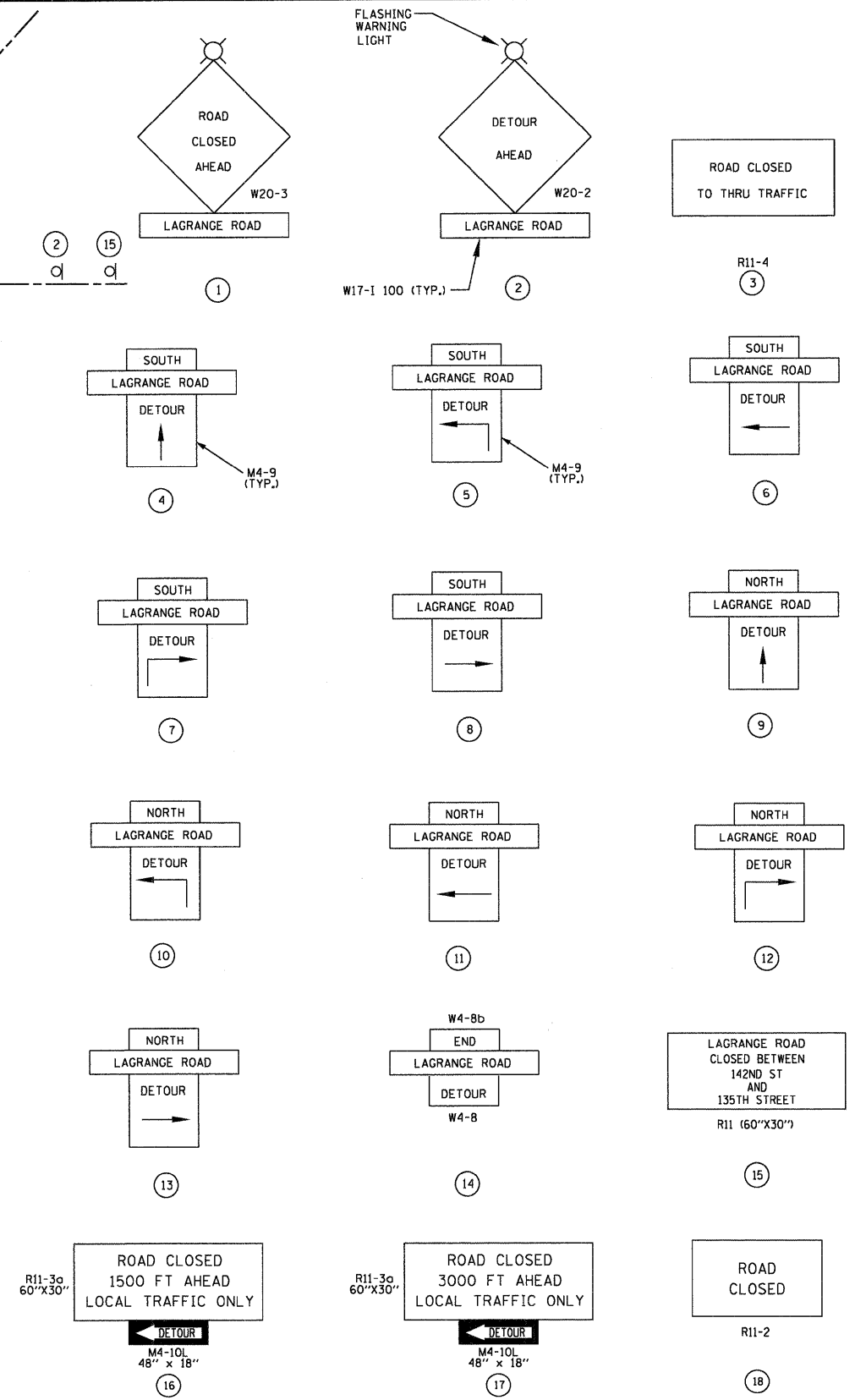
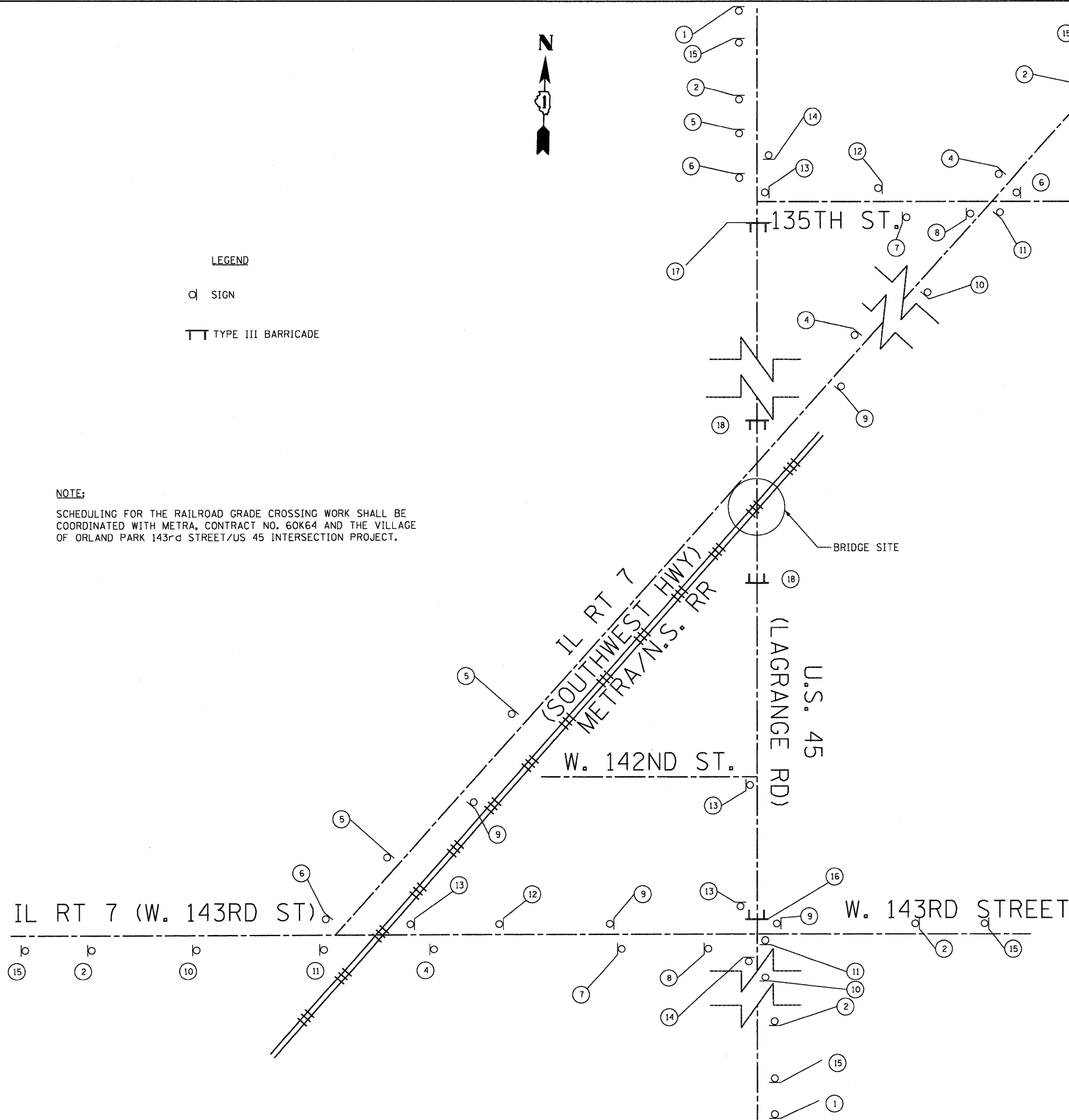
**LEGEND**

⊘ SIGN

TT TYPE III BARRICADE

**NOTE:**

SCHEDULING FOR THE RAILROAD GRADE CROSSING WORK SHALL BE COORDINATED WITH METRA, CONTRACT NO. 60K64 AND THE VILLAGE OF ORLAND PARK 143RD STREET/US 45 INTERSECTION PROJECT.



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 Engineers / Architects  
 130 East Randolph Street Chicago, Illinois 60601

FILE NAME = D160N09-SHT-STAGING01.dgn	USER NAME = TKI\jgsl	DESIGNED - TRK	REVISED -	<b>STATE OF ILLINOIS DEPARTMENT OF TRANSPORTATION</b>	<b>MAINTENANCE OF TRAFFIC TEMPORARY DETOUR PLAN FOR REMOVING GIRDERS</b>		F.A.P. RTE. 330	SECTION 2010-135-1	COUNTY COOK	TOTAL SHEETS 101	SHEET NO. 25
PLOT SCALE = 1:10	CHECKED - MJT	DRAWN - TRK	REVISED -		SCALE: N.T.S.	SHEET NO. 1 OF 2 SHEETS	STA.	TO STA.	<b>MN-01</b>		CONTRACT NO. 60N09
PLOT DATE = 12/29/2010	DATE - 12/17/10	CHECKED - MJT	REVISED -						ILLINOIS FED. AID PROJECT		
		DATE - 12/17/10	REVISED -								

LEGEND

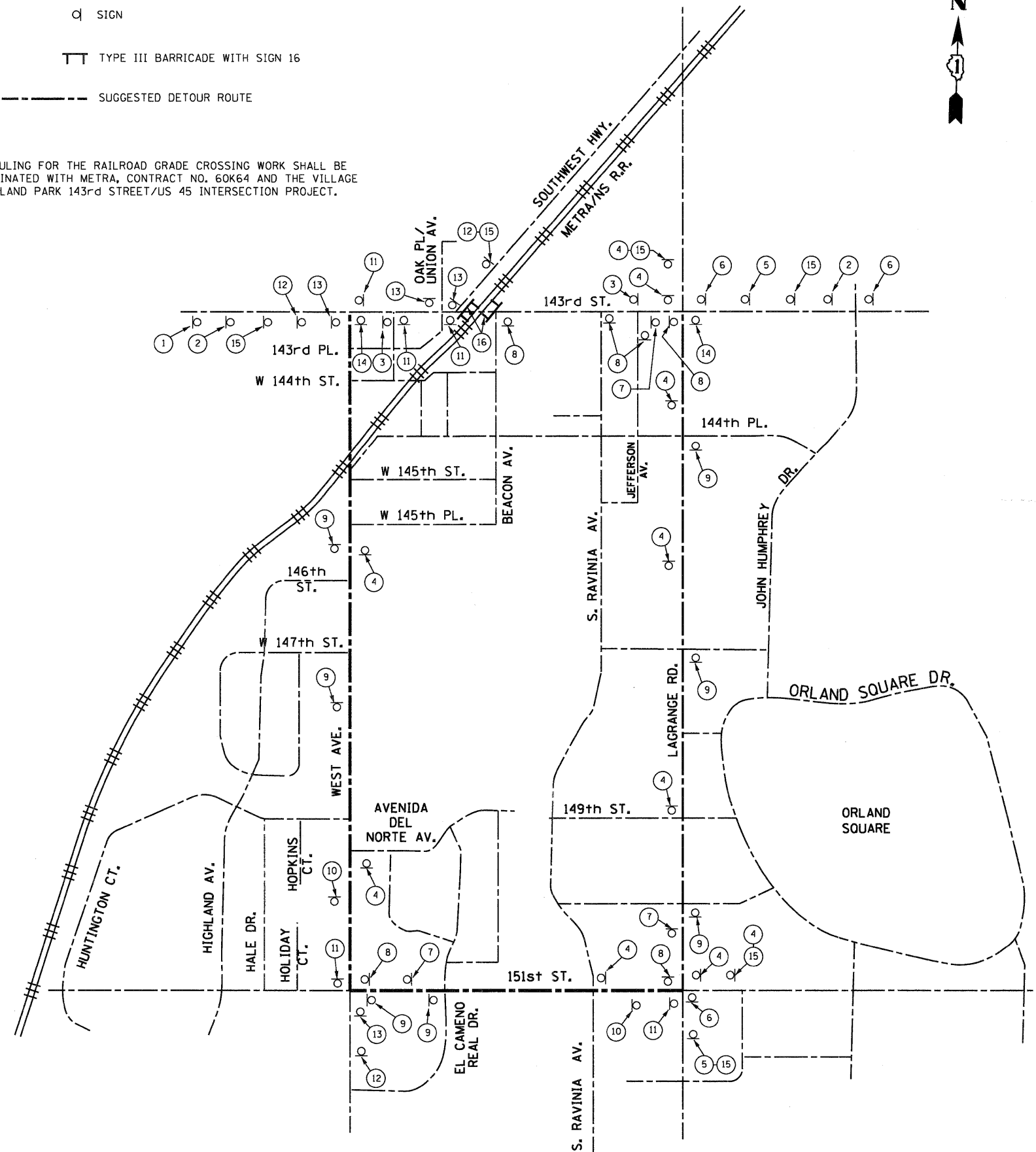
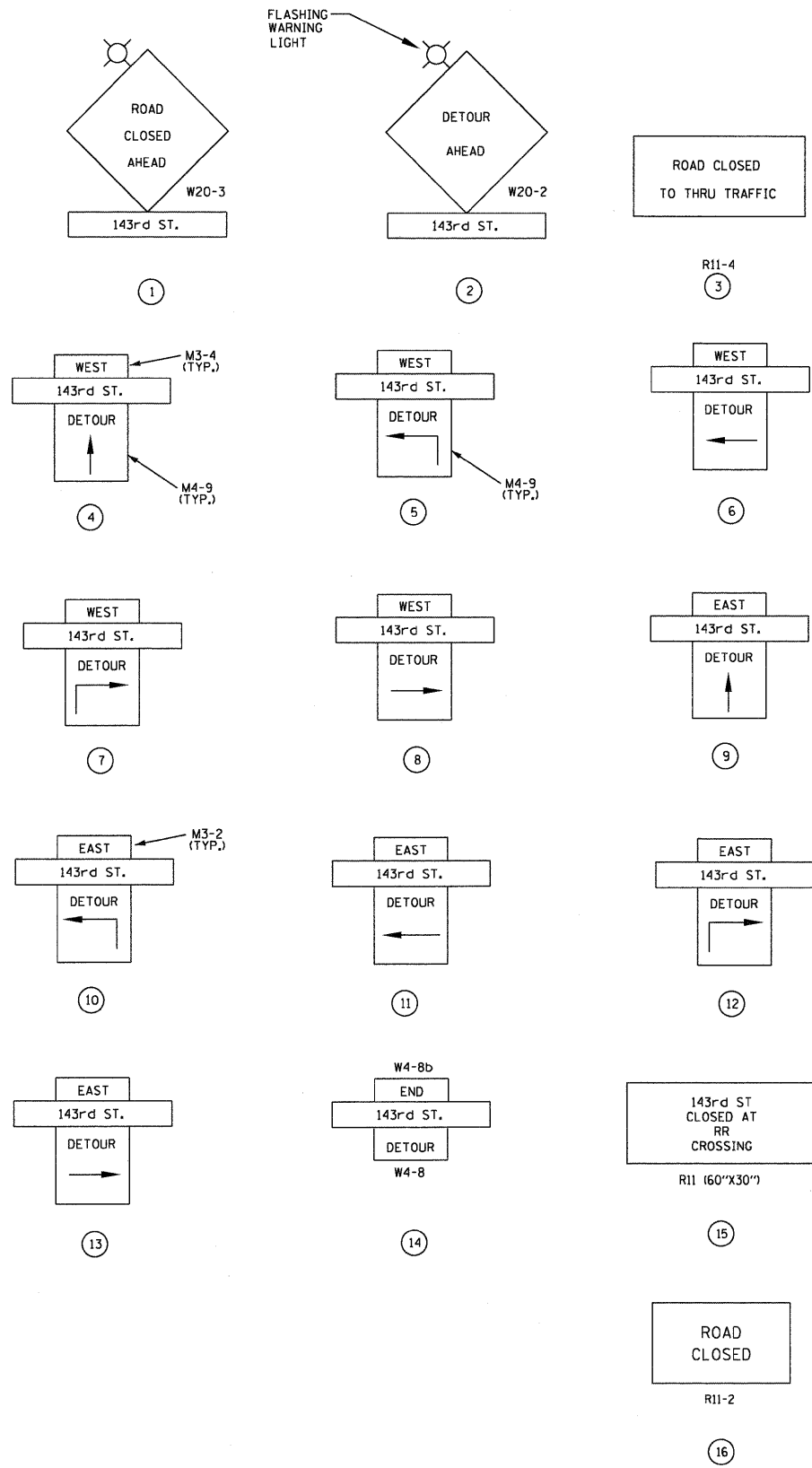
□ SIGN

TT TYPE III BARRICADE WITH SIGN 16

--- SUGGESTED DETOUR ROUTE

NOTE:

SCHEDULING FOR THE RAILROAD GRADE CROSSING WORK SHALL BE COORDINATED WITH METRA, CONTRACT NO. 60K64 AND THE VILLAGE OF ORLAND PARK 143rd STREET/US 45 INTERSECTION PROJECT.



FILE NAME = D160N09-SHT-STAGING02.dgn	USER NAME = TKluogel	DESIGNED - JPW	REVISED -
		DRAWN - JPW	REVISED -
		CHECKED - MJT	REVISED -
		DATE - 12/17/10	REVISED -

STATE OF ILLINOIS  
 DEPARTMENT OF TRANSPORTATION

MAINTENANCE OF TRAFFIC TEMPORARY DETOUR PLAN  
 FOR 143rd STREET RR CROSSING

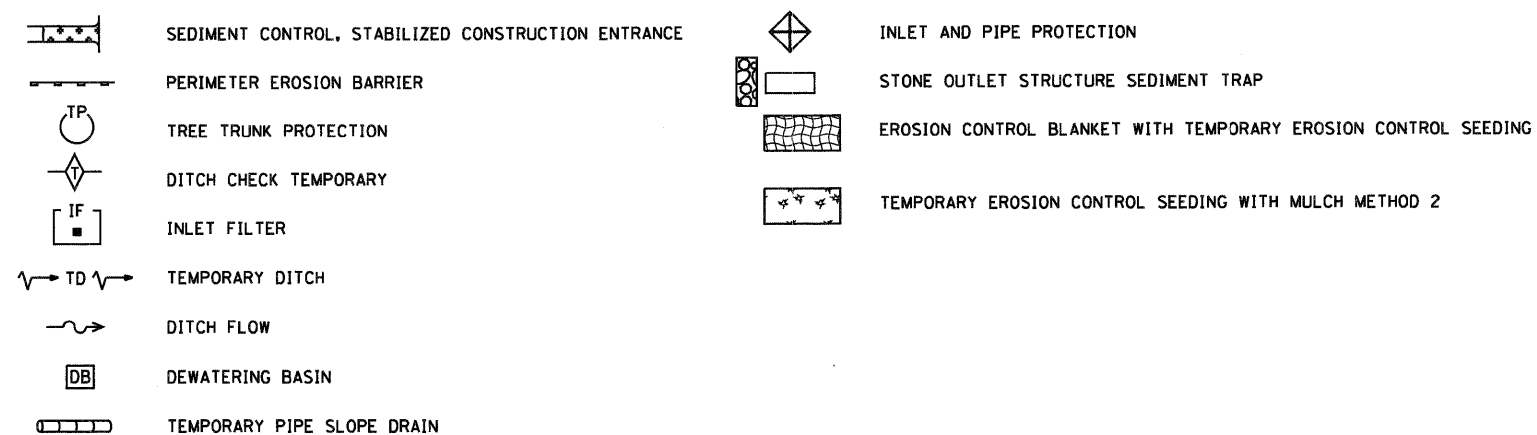
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F.A.P. RTE. 330	SECTION 2010-135-1	COUNTY COOK	TOTAL SHEETS 101	SHEET NO. 26
<b>MN-02</b>		CONTRACT NO. 60N09		
ILLINOIS FED. AID PROJECT				

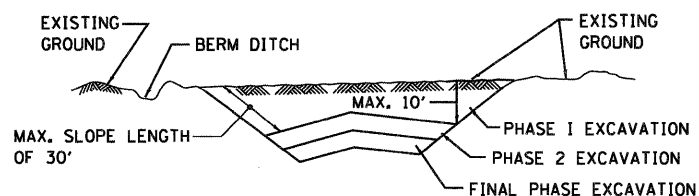
**EROSION AND SEDIMENT CONTROL  
GENERAL NOTES**

- THE WORK DESCRIBED ON THESE DRAWINGS IS AN INTEGRAL PART OF THE STORM WATER POLLUTION PREVENTION PLAN USED TO OBTAIN A NPDES PERMIT FROM IEPA FOR THE CONSTRUCTION OF THIS PROJECT.
- THE PURPOSE OF THE EROSION AND SEDIMENT CONTROL MEASURES INCLUDED FOR THIS PROJECT IS TO LIMIT THE SEDIMENT POLLUTION IMPACT OF ANY STORM WATER DISCHARGES THAT ORIGINATE ON THIS SITE OR OFF-SITE FLOWS THAT FLOW OVER THE DISTURBED AREAS ON DOWNSTREAM AREAS.
- IT IS THE RESPONSIBILITY OF THE CONTRACTOR TO ENSURE THAT SEDIMENT TRANSPORT OFF THE SITE IS REDUCED BY A COMBINATION OF MINIMIZATION OF EROSION AT THE SOURCE AND INSTALLATION OF SPECIFIC MEASURES TO CONTROL OR REDUCE THE TRANSPORT OF SEDIMENT. A COPY OF THE EROSION AND SEDIMENT CONTROL SCHEDULE BEING IMPLEMENTED BY THE CONTRACTOR WILL BE ON THE CONSTRUCTION SITE AT ALL TIMES.
- TO THE MAXIMUM EXTENT POSSIBLE, ALL FLOWS ORIGINATING OFF THE CONSTRUCTION SITE WILL BE DIVERTED AROUND DISTURBED AREAS OR WILL BE CONVEYED THROUGH THE SITE IN A MANNER THAT UNTREATED ON-SITE RUNOFF DOES NOT MIX WITH THE OFF-SITE RUNOFF.
- ALL RUNOFF ORIGINATING ON DISTURBED AREAS ASSOCIATED WITH THIS PROJECT WILL PASS THROUGH ONE OR MORE MEASURES THAT WILL MINIMIZE THE OFF-SITE SEDIMENT IMPACTS OF THE CONSTRUCTION ACTIVITY.
- ALL PERMANENT SEDIMENT BASINS, PERMANENT STORM WATER CONTROL MEASURES, AND RUNOFF CONTROL MEASURES REQUIRED TO KEEP OFF-SITE RUNOFF FROM FLOWING OVER THE CONSTRUCTION AREA WILL BE INSTALLED BEFORE CLEARING AND STRIPPING OF THE SITE PROCEEDS. PRIOR TO PROCEEDING WITH GENERAL EARTHWORK ON A PROJECT THE CONTRACTOR WILL OBTAIN APPROVAL OF HIS PROPOSED EARTHWORK AND STABILIZATION SCHEDULE.
  - WHEN BALANCING EARTHWORK (BORROW FROM A CUT USED AS FILL AT A LOCATION DISTANT FROM THE CUT) THE ENGINEER WILL CONSIDER ALLOWING MORE THAN 10 ACRES OF GRADING AT A TIME. THE 10 ACRE LIMITATION DOES NOT INCLUDE HAUL ROADS, BRIDGE CONSTRUCTION WORK AREAS AND STORAGE AREAS.
  - VARIATIONS TO THE ABOVE MAY BE CONSIDERED BY THE ENGINEER UNDER ALL THE FOLLOWING CONDITIONS:
    - IF THE CONTRACTOR FALLS BEHIND SCHEDULE THROUGH NO FAULT OF HIS OWN.
    - THE CONTRACTOR MUST PRESENT A SCHEDULE DEMONSTRATING THE NEED FOR SUCH VARIATION IN ORDER TO COMPLETE THE WORK ON TIME.
    - THE CONTRACTOR MUST COMPLY WITH ALL OTHER CONTRACT REQUIREMENTS.
- DISTURBED AREAS ARE TO BE PROTECTED FROM EROSION IN A TIMELY MANNER. UPON COMPLETION OF GRADING OR CONSTRUCTION, THE AREA WILL BE STABILIZED (USING PERMANENT MEASURES WHEN POSSIBLE) WITHIN 7 CALENDAR DAYS. TEMPORARY STABILIZATION THROUGH USE OF GROUND COVER, MULCHING, OR OTHER APPROVED MEASURES WILL BE INSTALLED WHENEVER SITE DEVELOPMENT WORK, GRADING OR OTHER EARTH DISTURBING ACTIVITIES CEASE TO BE CONTINUOUS FOR A PERIOD EXCEEDING 14 CALENDAR DAYS. THE 7/14 DAY REQUIREMENT IS TAKEN TO MEAN THAT THE STABILIZATION OPERATION IS COMPLETE OR NEARING COMPLETION IN THE DEFINED TIME.
- STABILIZATION OF CUT OR FILL SLOPES WITH TEMPORARY OR PERMANENT EROSION CONTROL MEASURES IS REQUIRED WHENEVER THE CUT OR FILL ACTIVITY REACHES 10 FEET VERTICALLY OR THE FINISHED SLOPE EQUALS 30 FEET, WHICHEVER IS MORE RESTRICTIVE. ONCE THE STABILIZATION MEASURES ARE INSTALLED, THE PLACEMENT OF FILL EXCAVATION ACTIVITIES ARE ALLOWED TO PROCEED.
- THE CONTRACTOR SHALL DESIGNATE ONE OF HIS EMPLOYEES AS RESPONSIBLE FOR IMPLEMENTATION OF THE EROSION AND SEDIMENT CONTROL PLAN ON ALL DISTURBED AREAS. THIS PERSON IS TO BE KNOWLEDGEABLE ABOUT INSTALLATION AND MAINTENANCE OF THE REQUIRED MEASURES AND IS TO HAVE TAKEN AN APPROVED EROSION AND SEDIMENT CONTROL COURSE. THIS EMPLOYEE IS TO HAVE THE AUTHORITY TO CARRY OUT THE IMPLEMENTATION OF ANY INSTRUCTIONS CONCERNING THE EROSION AND SEDIMENT CONTROL PLAN GIVEN BY THE ENGINEER. ALL MEASURES WILL BE INSPECTED BY THIS INDIVIDUAL AND THE ENGINEER ON A REGULAR BASIS (AT LEAST ONCE EVERY 7 DAYS) AND AFTER RAINFALL EVENTS GREATER THAN 0.5 INCH.

**EROSION AND SEDIMENT CONTROL LEGEND**



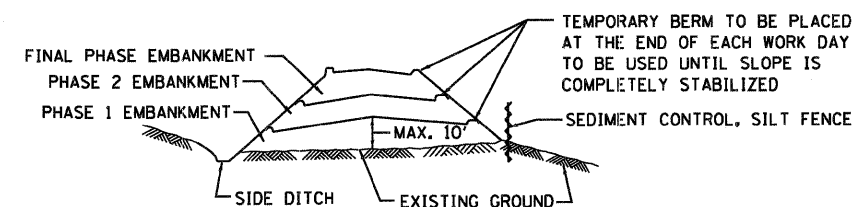
**EXCAVATION PHASING PLAN-CUT SECTION**



**NOTES:**

- ALL CUT SLOPES SHALL BE EXCAVATED AND STABILIZED (PLACE TOPSOIL, PREPARE SEEDBED, APPLY SEED, PROTECT SLOPE WITH MULCH OR EROSION BLANKET) AS THE WORK PROGRESSES.
- CONSTRUCTION SEQUENCE FOR EXCAVATION:
  - EXCAVATE AND STABILIZE BERM, SIDE AND OUTLET DITCHES, PROVIDE SEDIMENT TRAPS FOR DITCHES.
  - PERFORM PHASE 1 EXCAVATION AND STABILIZE SLOPES WITH PERMANENT SEEDING.
  - PERFORM PHASE 2 EXCAVATION AND STABILIZE SLOPES WITH PERMANENT SEEDING. OVERSEED PHASE 1 SLOPES, IF REQUIRED.
  - PERFORM FINAL PHASE EXCAVATION, AND STABILIZE WITH PERMANENT VEGETATIVE PLAN ON THE ENTIRE SLOPE. STABILIZE SURFACE DRAIN DITCHES. OVERSEED PHASE 1 & 2 SLOPES, IF REQUIRED, AS DETERMINED BY THE ENGINEER.
- IF PERMANENT SEEDING CANNOT BE PLACED DUE TO CONTRACT REQUIREMENTS REGARDING PLANTING SEASONS, THE CUT SLOPE IS TO HAVE TOPSOIL PLACED AND SEEDBED PREPARED PRIOR TO USING TEMPORARY STABILIZATION WITH STRAW MULCH OR TEMPORARY SEEDING WITH EROSION BLANKET.
- THE CONTRACTOR HAS THE OPTION OF DELAYING TOPSOIL AND/OR SEEDING BEYOND THE 10 FOOT VERTICAL LIMITATION. (SEE GENERAL NOTE 9) IF SO THE CUT SLOPE MUST BE TEMPORARILY STABILIZED AT NO COST TO THE DEPARTMENT.
- ONCE THE EXCAVATION WITHIN A SPECIFIC AREA HAS BEGUN, THE OPERATION SHALL BE CONTINUOUS FROM STRIPPING THROUGH THE COMPLETION OF THE GRADING AND PLACEMENT OF SLOPE STABILIZATION MEASURES. ANY INTERRUPTIONS IN THE OPERATION 14 DAYS OR MORE MUST BE APPROVED BY THE ENGINEER. ANY VIOLATIONS OF THIS REQUIREMENT WILL RESULT IN THE CONTRACTOR ASSUMING THE RESPONSIBILITY OF PLACING TEMPORARY STABILIZATION AT HIS OWN COST AND EXPENSE AS DIRECTED BY THE ENGINEER.

**EMBANKMENT PHASING PLAN-FILL SECTION**



**NOTES:**

- THE EMBANKMENT WILL BE MADE IN STAGES NOT TO EXCEED 10'. THE EMBANKMENT SLOPES WILL BE STABILIZED USING TEMPORARY MEASURES BEFORE BEGINNING NEXT STAGE.
- AT THE END OF EACH WORK DAY TEMPORARY BERMS (EARTH) AND TEMPORARY PIPE SLOPE DRAINS WILL BE CONSTRUCTED ALONG THE TOP EDGE(S) OF THE EMBANKMENT TO INTERCEPT SURFACE RUNOFF.
- CONSTRUCTION SEQUENCE FOR EMBANKMENT
  - EXCAVATE AND STABILIZE SIDE DITCH AND/OR INSTALL PROPOSED PERIMETER CONTROLS AT THE TOE OF SLOPE.
  - PLACE PHASE 1 EMBANKMENT AND STABILIZE WITH TEMPORARY SEEDING AND MULCH.
  - PLACE PHASE 2 EMBANKMENT AND STABILIZE WITH TEMPORARY SEEDING AND MULCH.
  - PLACE FINAL PHASE EMBANKMENT AND STABILIZE WITH PERMANENT VEGETATIVE PLAN ON THE ENTIRE SLOPE.
- ONCE THE PLACEMENT OF FILL WITHIN A SPECIFIC AREA HAS BEGUN, THE OPERATION SHALL BE CONTINUOUS FROM STRIPPING THROUGH THE COMPLETION OF THE GRADING AND PLACEMENT OF PERMANENT VEGETATIVE PLAN. ANY INTERRUPTIONS IN THE OPERATION OF 14 DAYS OR MORE MUST BE APPROVED BY THE ENGINEER. ANY VIOLATION OF THIS REQUIREMENT WILL RESULT IN THE CONTRACTOR ASSUMING THE RESPONSIBILITY OF PLACING TEMPORARY STABILIZATION AT HIS OWN COST AND EXPENSE AS DIRECTED BY THE ENGINEER.

SEE NEXT SHEET FOR CONTINUATION

FILE NAME = D162009-SHT-EROS01.dgn	USER NAME = TKLuegel	DESIGNED - JCL	REVISED -	<b>STATE OF ILLINOIS DEPARTMENT OF TRANSPORTATION</b>	<b>EROSION AND SEDIMENT CONTROL GENERAL NOTES AND LEGEND</b>			F.A.P. RTE. 330	SECTION 2010-135-1	COUNTY COOK	TOTAL SHEETS 101	SHEET NO. 27
PLOT SCALE = 1:50	CHECKED - MJT	REVISED -	<b>EN-01</b>									
PLOT DATE = 12/29/2010	DATE - 12/17/10	REVISED -	CONTRACT NO. 60N09									
			ILLINOIS FED. AID PROJECT									
					SCALE: N.T.S.	SHEET NO. 1 OF 2 SHEETS	STA. TO STA.					

**EROSION AND SEDIMENT CONTROLS  
GENERAL NOTES (CONTD.)**

11. SEDIMENT TRAPS, SEDIMENT BASINS, DITCHES, SEDIMENT CONTROL, SILT FENCE, STONE OUTLET STRUCTURES, EARTH BERMS, ETC. SHALL BE MAINTAINED DURING THE CONSTRUCTION SEASON AS WELL AS THE WINTER MONTHS AND OTHER TIMES WHEN THE PROJECT IS CLOSED DOWN. TRAPS WILL BE CLEANED WHEN THEY ARE 50% FILLED, SILT FENCE & STONE OUTLET STRUCTURES SHALL HAVE SEDIMENT REMOVED WHEN IT REACHES 50% THE HEIGHT OF THE CONTROL DEVICE. THESE SPOILS WILL BE REMOVED TO AN APPROVED SITE.
12. SALVAGED TOPSOIL SHALL BE PLACED ON WELL DRAINED LAND AWAY FROM INTERMITTENT AND LIVE STREAMS OR WETLANDS WITH THE APPROPRIATE RUNOFF CONTROL AND SEDIMENT CONTROL MEASURES INSTALLED AROUND THE STORAGE SITE, AND STABILIZED IMMEDIATELY AFTER FINAL SHAPING OF THE PILE IN ACCORDANCE WITH MULCH, METHOD 2. THE CONTRACTOR WILL PROVIDE AN ADEQUATE QUANTITY OF SILT FENCE TO CONTROL THE PERIMETER OF THE STOCKPILE.
13. MATERIALS EXCAVATED FOR THE CONSTRUCTION OR CLEANOUT OF SEDIMENT TRAPS OR SEDIMENT BASINS SHALL NOT BE STOCKPILED IN THE VICINITY OF THE TRAP OR BASIN. IT WILL EITHER BE PLACED IN AN EMBANKMENT OR WASTED AS DIRECTED BY THE ENGINEER.
14. EXCAVATION TO BE USED FOR EMBANKMENTS SHALL NOT BE STOCKPILED UNLESS PERIMETER CONTROLS ARE UTILIZED. WHEN THIS MATERIAL IS STOCKPILED FOR THE CONVENIENCE OF THE CONTRACTOR THE COST OF THE CONTROLS ARE BORNE BY THE CONTRACTOR. IF THE MATERIAL IS STOCKPILED AT THE DIRECTION OF THE ENGINEER THE DEPARTMENT WILL ASSUME THE COSTS OF THE CONTROLS.
15. SEDIMENT LADEN DEWATERING DISCHARGE MUST BE DIRECTED TO AN APPROVED SEDIMENT TRAPPING MEASURE PRIOR TO RELEASE FROM THE SITE.
16. WHEN THE CONTRACTOR REQUESTS A CHANGE TO POSTPONE COMPLETION OF THE EXCAVATION OF A SPECIFIC AREA AS A CONTINUOUS OPERATION AND PLACING THE TOPSOIL AS DEFINED IN THE STANDARD SPECIFICATIONS, THE ENGINEER MAY ALLOW THE CONTRACTOR TO STABILIZE THE AREA USING TEMPORARY STABILIZATION WITH STRAW MULCH PROVIDING THE FOLLOWING CONDITIONS ARE MET:
  - (A) ALL AREAS BEING STABILIZED ARE 3:1 SLOPES OR FLATTER.
  - (B) THE CONTRACTOR BEARS THE COST OF PREPARING THE SEED BED AND STABILIZING THE AREA WITH TEMPORARY STABILIZATION WITH STRAW MULCH.
  - (C) ALL REQUIRED SEDIMENT CONTROL MEASURES FOR THE SECTION OF ROAD IN QUESTION HAVE BEEN INSTALLED AND ARE BEING MAINTAINED.
17. SEEDING USAGE
 

CLASS 2A SALT TOLERANT ROADSIDE MIX USED FOR NEW CONSTRUCTION OF LIMITED ACCESS ROUTES INTENDED TO BE MOWED BY IDOT.

CLASS 4A LOW PROFILE NATIVE GRASS USED IN THE INACCESSIBLE AREAS AT NORTH AND SOUTH ENDS OF PROJECT.

TEMPORARY EROSION CONTROL SEEDING : USED IN AREAS REQUIRING SHORT TERM TEMPORARY SEEDING DURING CONSTRUCTION.
18. TOP SOIL PLACEMENT:
 

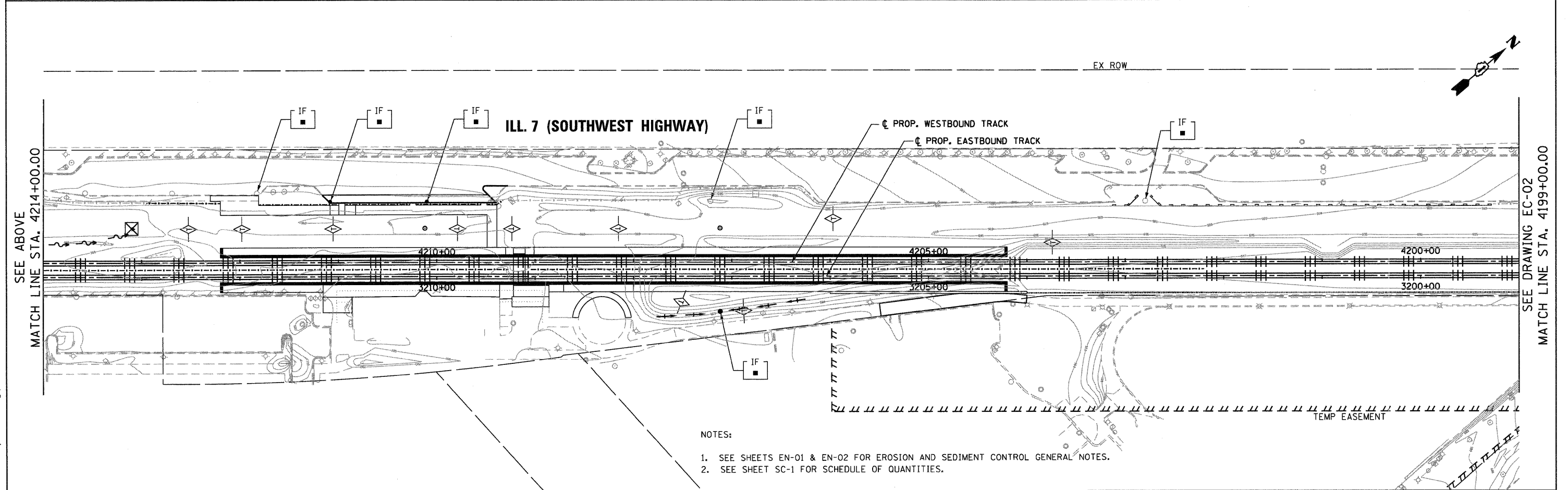
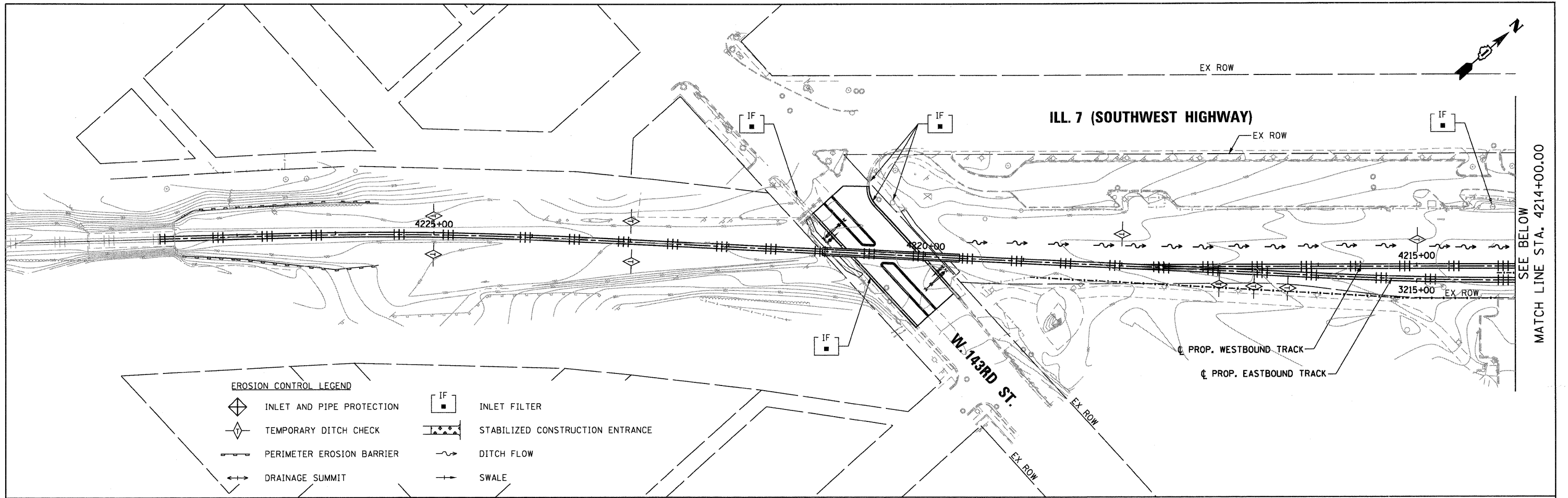
TOPSOIL WILL BE PLACED ON FINAL SLOPES WHICH WILL NOT BE DISTURBED BY FUTURE CONSTRUCTION. TOPSOIL WILL NOT BE PLACED ON SURFACES WHICH WILL BE PAVED IN THE FUTURE NOR ON TEMPORARILY STEEP SLOPES.
19. IN AREAS WHERE A PERMANENT VEGETATIVE COVER IS PRACTICABLE AND INCLUDED IN THE CONTRACT DOCUMENTS, A SPECIAL EFFORT SHOULD BE MADE TO ESTABLISH A COVER AS SOON AS A DISTURBED AREA IS BROUGHT TO FINAL GRADE.
20. EXISTING TRACK DITCHES SHALL BE MAINTAINED AT ALL TIMES THROUGHOUT THE CONSTRUCTION PERIOD. AFTER THE CONSTRUCTION HAS BEEN COMPLETED, ALL EROSION CONTROL DEVICES MUST BE REMOVED, ALL DEPOSITS OF SILT REMOVED, AND THE DITCHES MUST BE RESTORED.

**EROSION AND SEDIMENT CONTROL (ESC) STRATEGY**

DISTURBED AREA: 15 ACRES  
RECEIVING WATERS: McGinnis Slough

- . ERECT PERIMETER EROSION BARRIER AS SHOWN ON THE PLANS, ESTABLISH STABILIZED CONSTRUCTION ENTRANCES, CLEAR AND GRUB, REMOVE EXISTING TREES AS NECESSARY.
- . INSTALL INLET FILTERS AT EXISTING CATCH BASINS AND OPEN LID MANHOLES. INSTALL INLET & PIPE PROTECTION UPSTREAM OF ALL CULVERTS.
- . EXCAVATE AND CONSTRUCT EMBANKMENT FOR PROPOSED TRACKS. ESTABLISH PROPOSED DITCHES, STABILIZE WITH EROSION CONTROL BLANKET AND SEEDING. INSTALL TEMPORARY DITCH CHECKS AT 18" VERTICAL INTERVALS.
- . INSTALL INLET FILTERS AT 143RD STREET STRUCTURES AND AT STRUCTURES ON LAGRANGE ROAD UNDER THE EXISTING AND PROPOSED STRUCTURES.
- . ESTABLISH PERIMETER EROSION BARRIER ADJACENT TO THE EXISTING TRACKS AND PLACE INLET FILTERS AT CATCH BASINS AND OPEN LID MANHOLES NORTH AND WEST OF THE EXISTING TRACKS PRIOR TO DEMO OF EXISTING TRACKS AND BRIDGE. LINE ADJACENT DITCHES WITH TEMPORARY DITCH CHECKS.
- . INSPECT AND MAINTAIN ALL EROSION AND SEDIMENT CONTROL MEASURES FOR THE DURATION OF CONSTRUCTION.
- . WHEN FINAL STABILIZATION IS ESTABLISHED, REMOVE ALL TEMPORARY MEASURES.

FILE NAME = D162N09-SHT-EROS02.dgn	USER NAME = TKluegel	DESIGNED - JCL	REVISED -	<b>STATE OF ILLINOIS DEPARTMENT OF TRANSPORTATION</b>	<b>EROSION AND SEDIMENT CONTROL GENERAL NOTES AND STRATEGY</b>			F.A.P. RTE. 330	SECTION 2010-135-1	COUNTY COOK	TOTAL SHEETS 101	SHEET NO. 28
	PLOT SCALE = 1:50	DRAWN - JCL	REVISED -		SCALE: NONE SHEET NO. 2 OF 2 SHEETS STA. TO STA.			<b>EN-02</b>		CONTRACT NO. 60N09		
	PLOT DATE = 12/29/2010	CHECKED - MJT	REVISED -		ILLINOIS FED. AID PROJECT							
		DATE - 12/17/10	REVISED -									



FILE NAME = D162029-SHT-EROS03.dgn
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PLOT SCALE = 1:50
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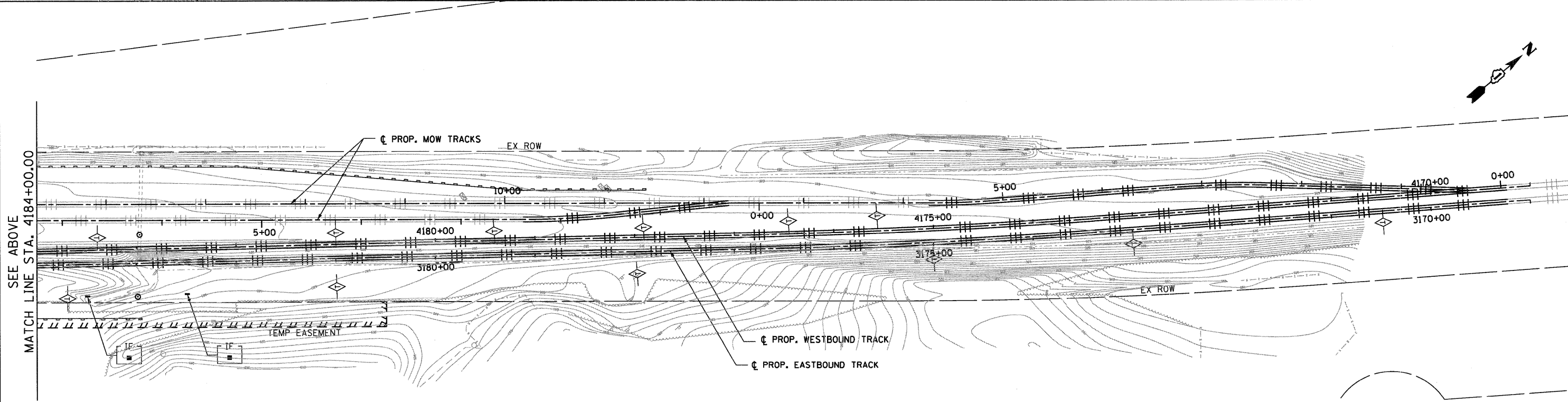
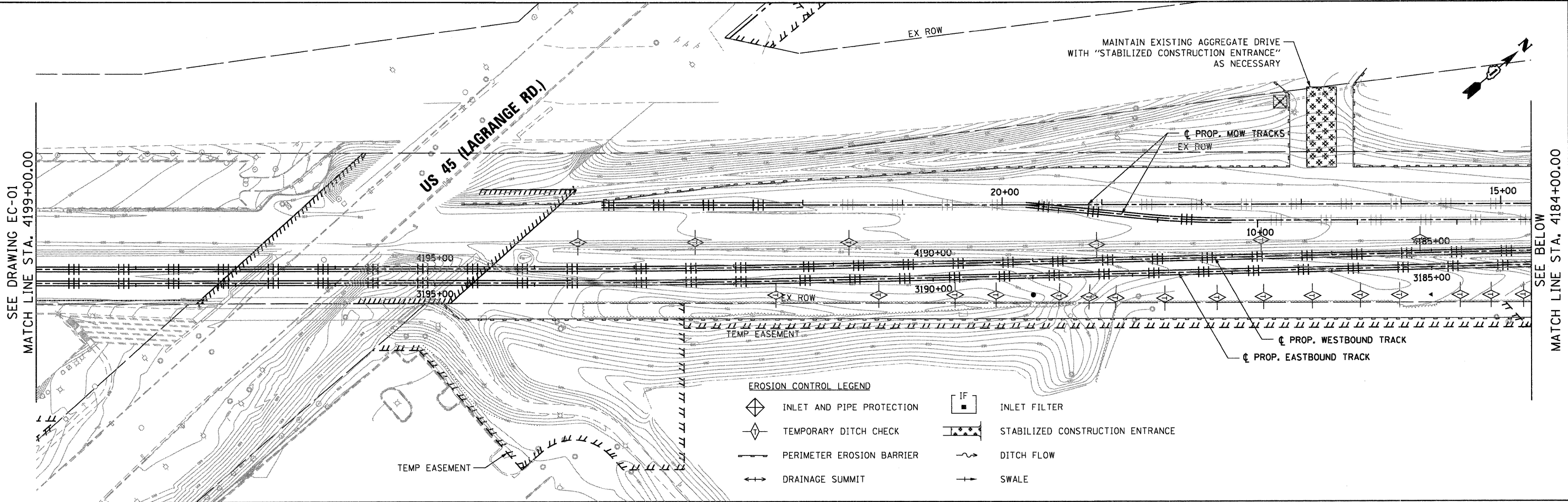
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DATE - 12/17/10	REVISD -

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**STATE OF ILLINOIS  
 DEPARTMENT OF TRANSPORTATION**

<b>EROSION AND SEDIMENT CONTROL PLAN</b>	
SCALE: 1"=50'	SHEET NO. 1 OF 2 SHEETS STA. TO STA.

F.A.P. RTE. 330	SECTION 2010-135-1	COUNTY COOK	TOTAL SHEETS 101	SHEET NO. 29
<b>EC-01</b>			CONTRACT NO. 60N09	
ILLINOIS FED. AID PROJECT				



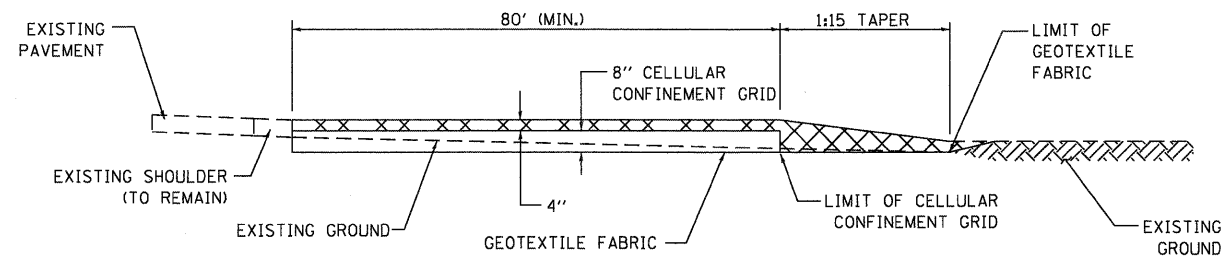
- NOTES:
- SEE SHEETS EN-01 & EN-02 FOR EROSION AND SEDIMENT CONTROL GENERAL NOTES.
  - SEE SHEET SC-1 FOR SCHEDULE OF QUANTITIES.

FILE NAME = D160809-SHT-EROS04.dgn	USER NAME = TKIuegl	DESIGNED - JCL	REVISED -
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		CHECKED - MJT	REVISED -
		DATE - 12/17/10	REVISED -

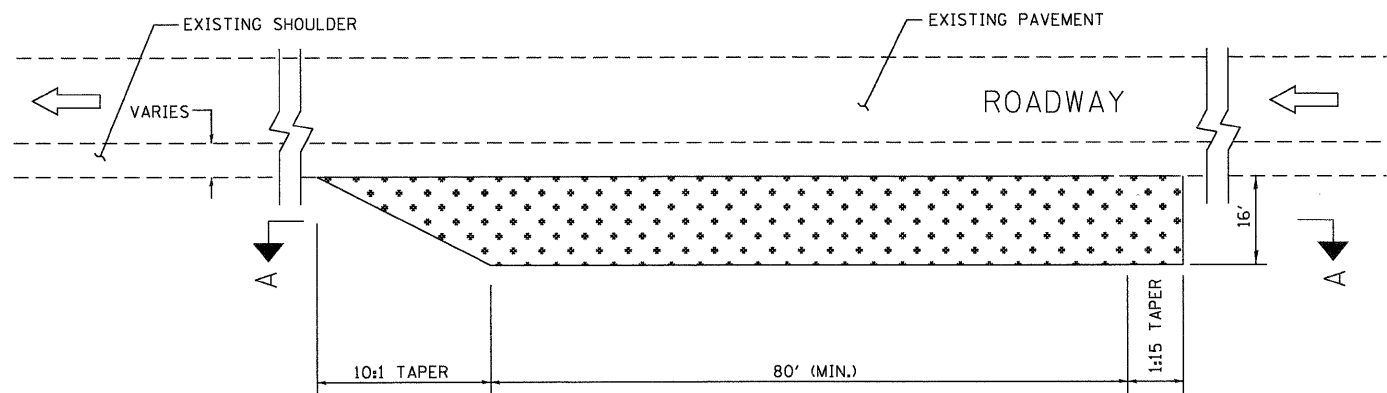
<b>STATE OF ILLINOIS</b>	
<b>DEPARTMENT OF TRANSPORTATION</b>	

<b>EROSION AND SEDIMENT CONTROL PLAN</b>		
SCALE: 1"=50'	SHEET NO. 2 OF 2 SHEETS	STA. TO STA.

F.A.P. RTE. 330	SECTION 2010-135-1	COUNTY COOK	TOTAL SHEETS 101	SHEET NO. 30
<b>EC-02</b>		CONTRACT NO. 60N09		
ILLINOIS FED. AID PROJECT				



SECTION A-A  
N.T.S.



PLAN  
N.T.S.

LEGEND



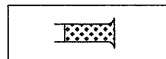
STABILIZED AGGREGATE DRIVEWAY

CONSTRUCTION SPECIFICATIONS AND NOTES

1. STABILIZED CONSTRUCTION ENTRANCE
  - A. LENGTH - AS REQUIRED, BUT NOT LESS THAN 80 FEET.
  - B. THICKNESS - NOT LESS THAN 4", ABOVE TOP OF CELLULAR CONFINEMENT GRID.
2. EXISTING DITCH DRAINAGE TO BE MAINTAINED.
3. GRADE FILL TO 1:10 ON APPROACH SIDE OF ENTRANCE

STABILIZED CONSTRUCTION ENTRANCE

STANDARD SYMBOL



FILE NAME =	USER NAME = TKI\egol
D160N09-SHT-EROS05.dgn	
PLOT SCALE = 1:50	
PLOT DATE = 12/29/2010	

DESIGNED - JCL	REVISED -
DRAWN - JCL	REVISED -
CHECKED - MJT	REVISED -
DATE - 12/17/10	REVISED -

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

EROSION AND SEDIMENT CONTROL DETAILS	
SCALE: NONE	SHEET NO. 1 OF 1 SHEETS
STA.	TO STA.

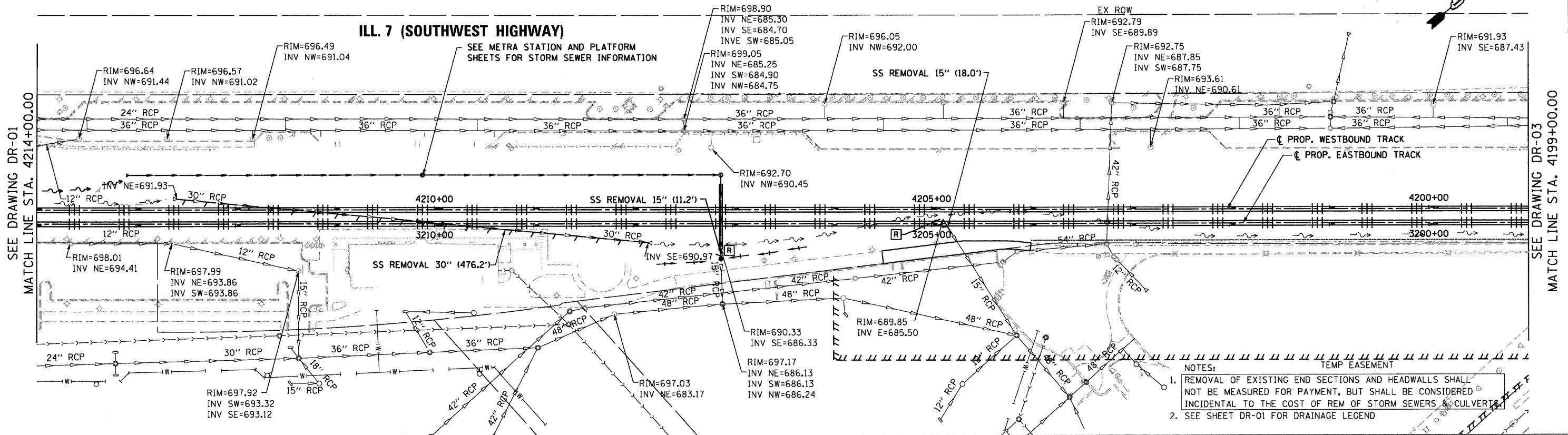
F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
330	2010-135-1	COOK	101	31
ED-01		CONTRACT NO. 60N09		
ILLINOIS FED. AID PROJECT				

ILLINOIS FED. AID PROJECT				
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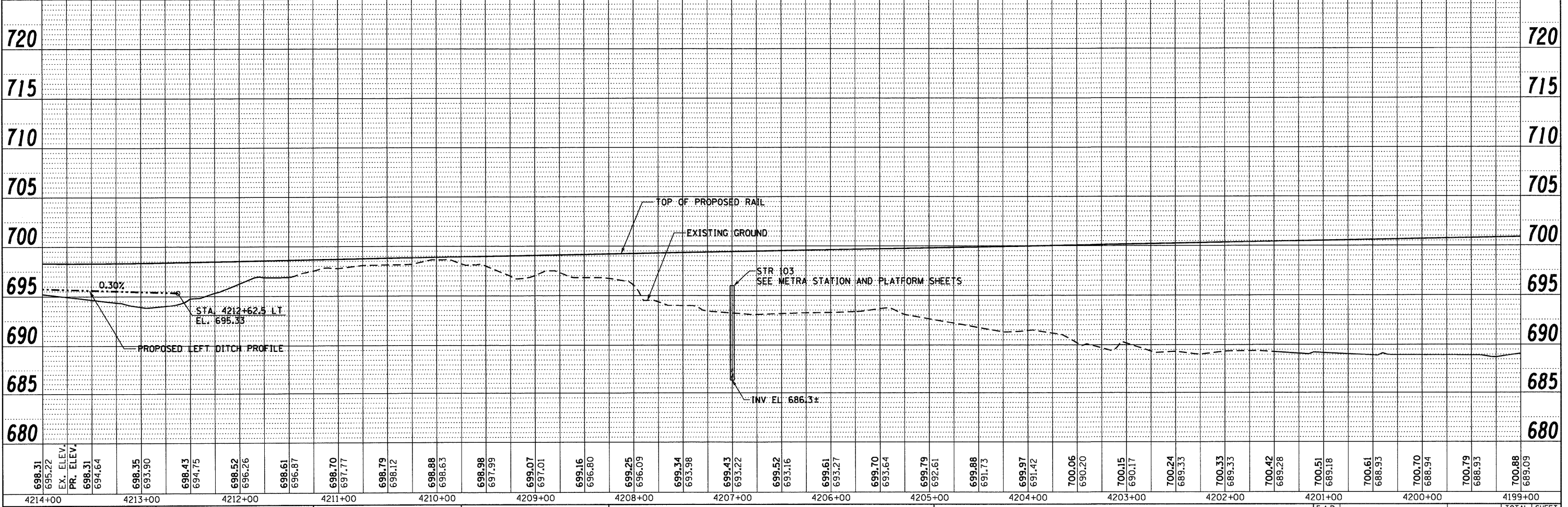




**ILL. 7 (SOUTHWEST HIGHWAY)**



- NOTES:
- REMOVAL OF EXISTING END SECTIONS AND HEADWALLS SHALL NOT BE MEASURED FOR PAYMENT, BUT SHALL BE CONSIDERED INCIDENTAL TO THE COST OF REM OF STORM SEWERS & CULVERTS.
  - SEE SHEET DR-01 FOR DRAINAGE LEGEND



DATE	
BY	
ENGINEER	
PLANNED	
NOTED	
NO.	

DATE	
BY	
ENGINEER	
PLANNED	
NOTED	
NO.	

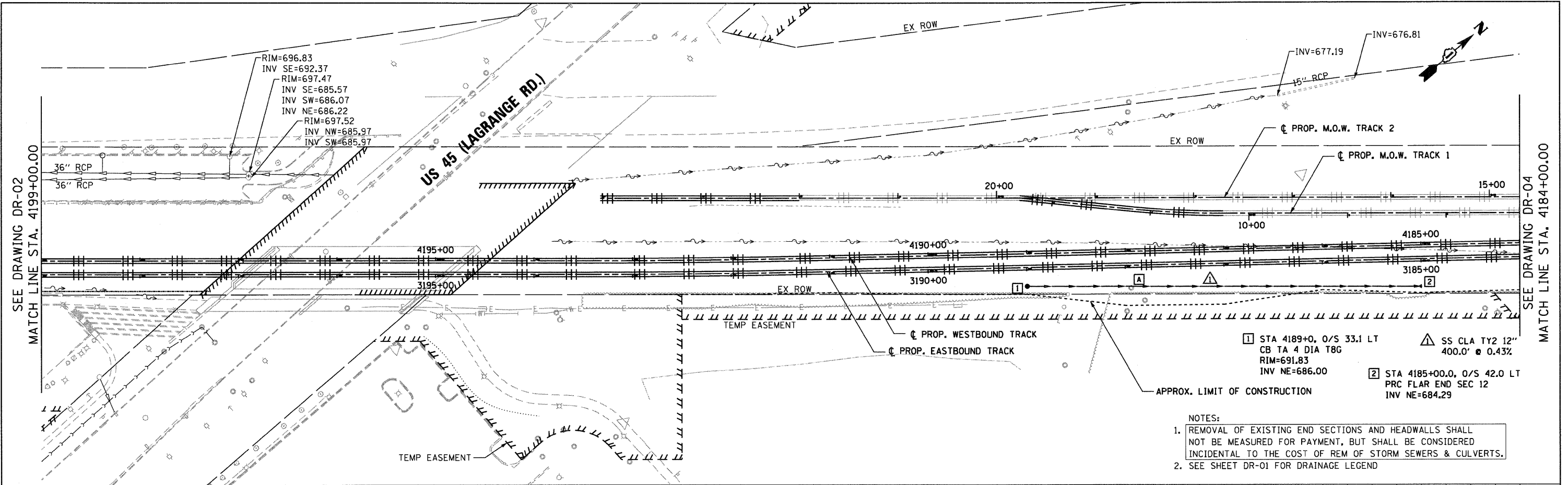
McDonough Associates Inc.  
Engineers/Architects  
130 East Randolph Street, Chicago, Illinois 60601

FILE NAME = D:\6089-SHT-DRAIN02.dgn	USER NAME = TKluegel	DESIGNED - MJT	REVISED -	<b>STATE OF ILLINOIS DEPARTMENT OF TRANSPORTATION</b>	<b>DRAINAGE AND UTILITIES PLAN AND PROFILE</b>	F.A.P. RTE. 330	SECTION 2010-135-I	COUNTY COOK	TOTAL SHEETS 101	SHEET NO. 33	
PLOT SCALE = 1:50	CHECKED - JWM	REVISED -	REVISED -			<b>DR-02</b>		CONTRACT NO. 60N09		ILLINOIS FED. AID PROJECT	
PLOT DATE = 12/29/2010	DATE - 12/17/10	REVISED -	REVISED -			SCALE: 1"=50'H=1"=5'V SHEET NO. 2 OF 4 SHEETS		STA. TO STA.			

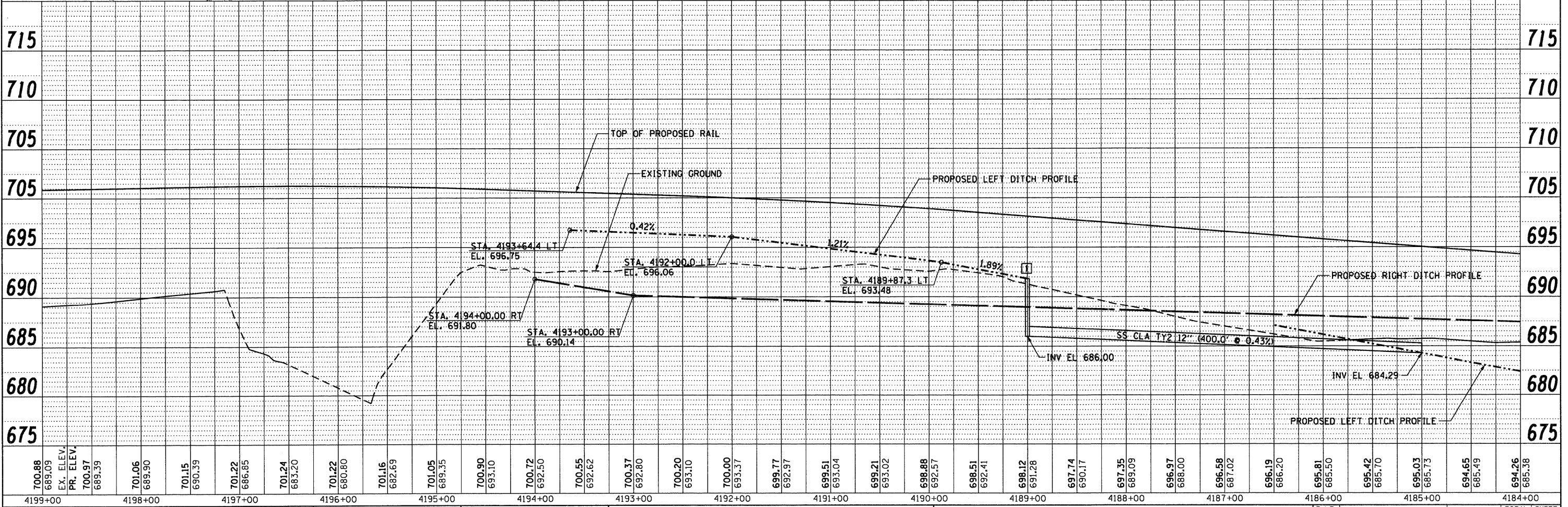
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**McDonough Associates Inc.**  
 Engineers / Architects  
 130 East Randolph Street, Chicago, Illinois 60601



- NOTES:**
- REMOVAL OF EXISTING END SECTIONS AND HEADWALLS SHALL NOT BE MEASURED FOR PAYMENT, BUT SHALL BE CONSIDERED INCIDENTAL TO THE COST OF REM OF STORM SEWERS & CULVERTS.
  - SEE SHEET DR-01 FOR DRAINAGE LEGEND

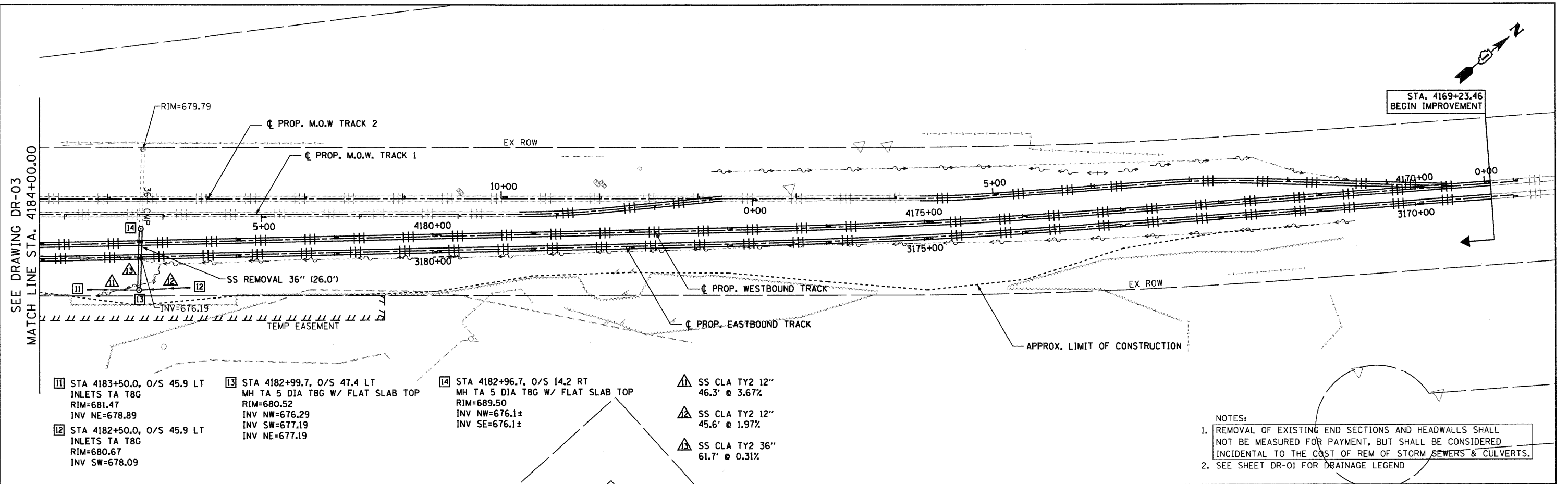


FILE NAME =	USER NAME = tklu@el	DESIGNED - MJT	REVISED -	<b>STATE OF ILLINOIS</b> <b>DEPARTMENT OF TRANSPORTATION</b>	<b>DRAINAGE AND UTILITIES PLAN AND PROFILE</b>	F.A.P. RTE. 330 SECTION 2010-135-I <b>DR-03</b> COUNTY COOK TOTAL SHEETS 101 SHEET NO. 34 CONTRACT NO. 60N09 [ILLINOIS] FED. AID PROJECT
D162N09-SHT-DRAIN03.dgn	PLOT SCALE = 1:150	DRAWN - MJT	REVISED -			
PLOT DATE = 12/29/2010	DATE = 12/17/10	CHECKED - JWM	REVISED -			
		DATE = 12/17/10	REVISED -			

DATE	
BY	
REVISIONS	
PLAN	ENGINEER
	NOTED
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	FILE NAME

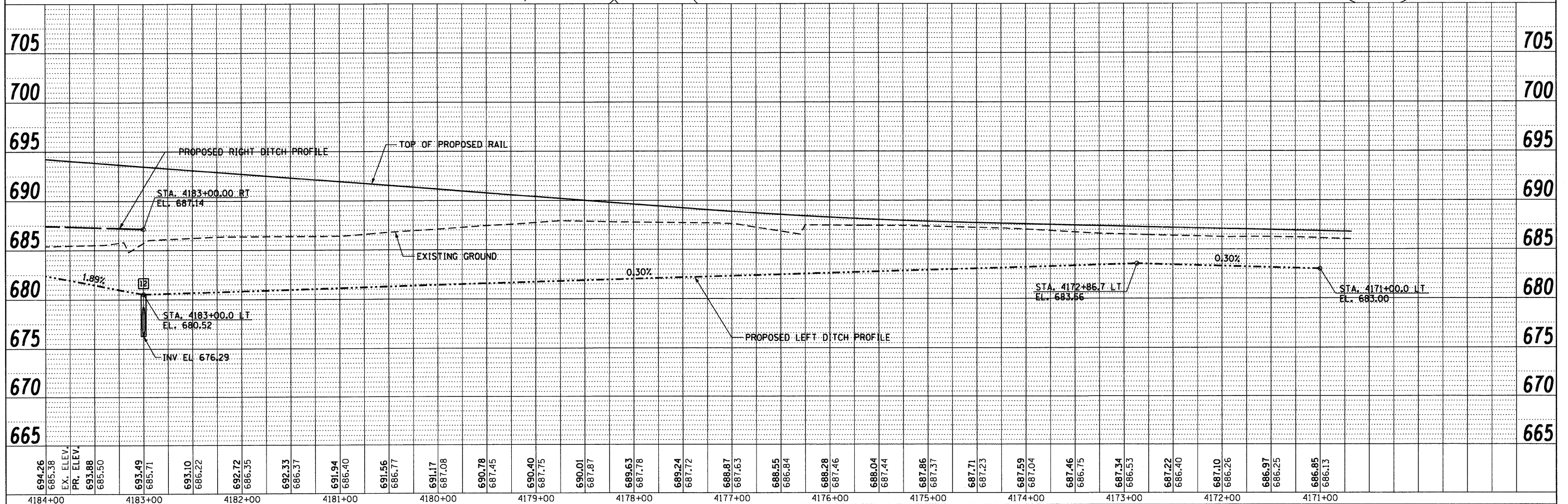
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PROFILE	ENGINEER
	NOTED
	GRADES
	CHECKED
	FILE NAME

**McDonough Associates Inc.**  
 Engineers/Architects  
 130 East Randolph Street, Chicago, Illinois 60601



- 11 STA 4183+50.0, O/S 45.9 LT  
INLETS TA T8G  
RIM=681.47  
INV NE=678.89
- 12 STA 4182+50.0, O/S 45.9 LT  
INLETS TA T8G  
RIM=680.67  
INV SW=678.09
- 13 STA 4182+99.7, O/S 47.4 LT  
MH TA 5 DIA T8G W/ FLAT SLAB TOP  
RIM=680.52  
INV NW=676.29  
INV SW=677.19  
INV NE=677.19
- 14 STA 4182+96.7, O/S 14.2 RT  
MH TA 5 DIA T8G W/ FLAT SLAB TOP  
RIM=689.50  
INV NW=676.1±  
INV SE=676.1±
- SS CLA TY2 12"  
46.3' @ 3.67%
- SS CLA TY2 12"  
45.6' @ 1.97%
- SS CLA TY2 36"  
61.7' @ 0.31%

- NOTES:
- REMOVAL OF EXISTING END SECTIONS AND HEADWALLS SHALL NOT BE MEASURED FOR PAYMENT, BUT SHALL BE CONSIDERED INCIDENTAL TO THE COST OF REM OF STORM SEWERS & CULVERTS.
  - SEE SHEET DR-01 FOR DRAINAGE LEGEND

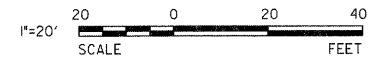


FILE NAME = D:\0209-SHT-DRAIN\04.dgn	USER NAME = TKluigel	DESIGNED - MJT	REVISED -	<b>STATE OF ILLINOIS DEPARTMENT OF TRANSPORTATION</b>	<b>DRAINAGE AND UTILITIES PLAN AND PROFILE</b>	F.A.P. RTE. 330	SECTION 2010-135-I	COUNTY COOK	TOTAL SHEETS 101	SHEET NO. 35		
PLOT SCALE = 1/8"=1'	PLOT DATE = 12/29/2018	DRAWN - MJT	REVISED -			SCALE: 1"=50'H/1"=5'V	SHEET NO. 4 OF 4 SHEETS	STA.	TO STA.	CONTRACT NO. 60N09		
CHECKED - JWM	DATE - 12/17/10	REVISOR -	REVISOR -			ILLINOIS FED. AID PROJECT						

**NOTES**

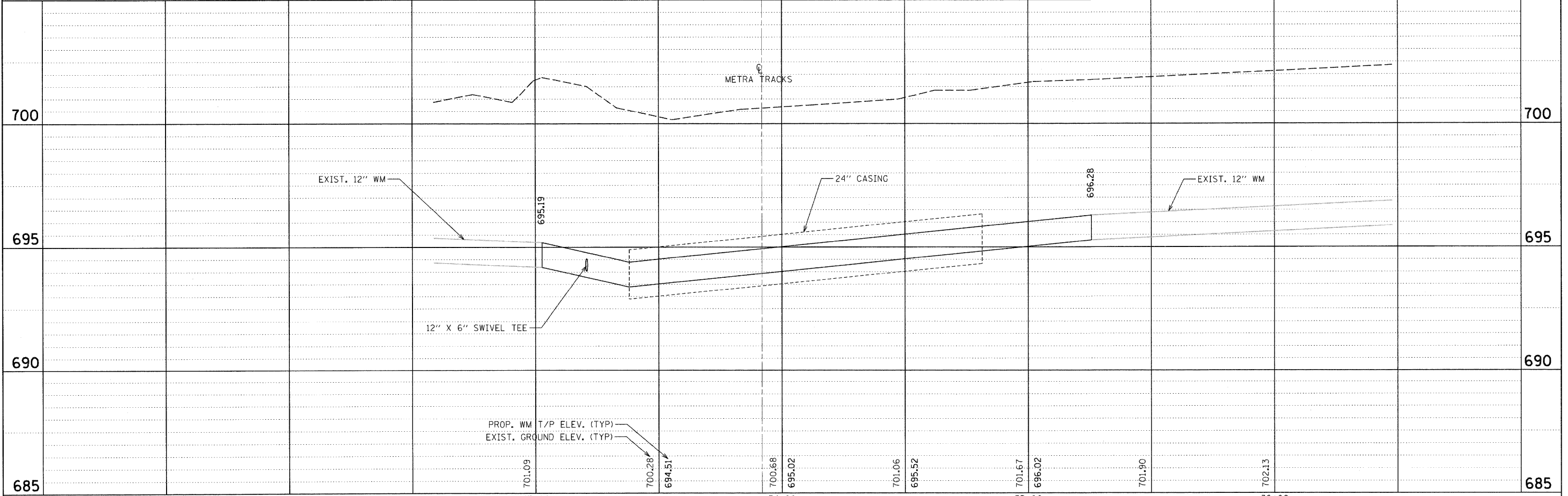
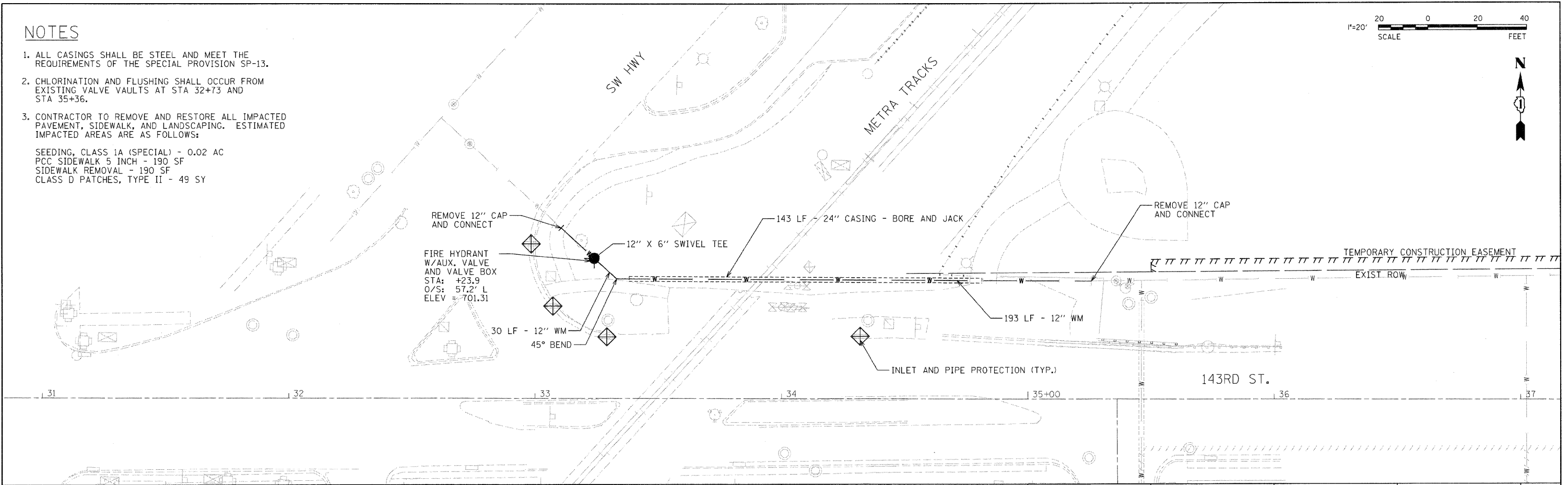
1. ALL CASINGS SHALL BE STEEL AND MEET THE REQUIREMENTS OF THE SPECIAL PROVISION SP-13.
2. CHLORINATION AND FLUSHING SHALL OCCUR FROM EXISTING VALVE VAULTS AT STA 32+73 AND STA 35+36.
3. CONTRACTOR TO REMOVE AND RESTORE ALL IMPACTED PAVEMENT, SIDEWALK, AND LANDSCAPING. ESTIMATED IMPACTED AREAS ARE AS FOLLOWS:

SEEDING, CLASS 1A (SPECIAL) - 0.02 AC  
 PCC SIDEWALK 5 INCH - 190 SF  
 SIDEWALK REMOVAL - 190 SF  
 CLASS D PATCHES, TYPE II - 49 SY

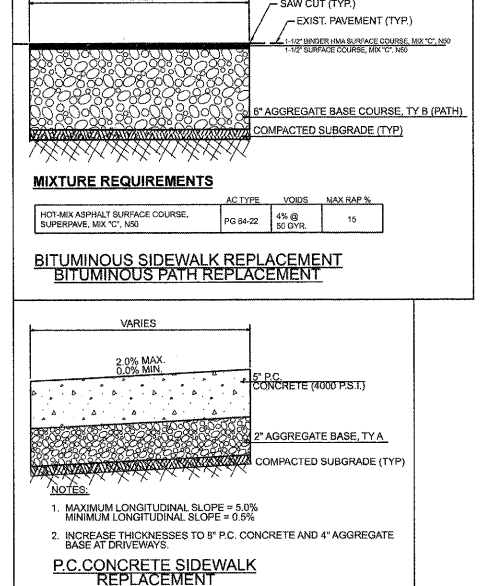
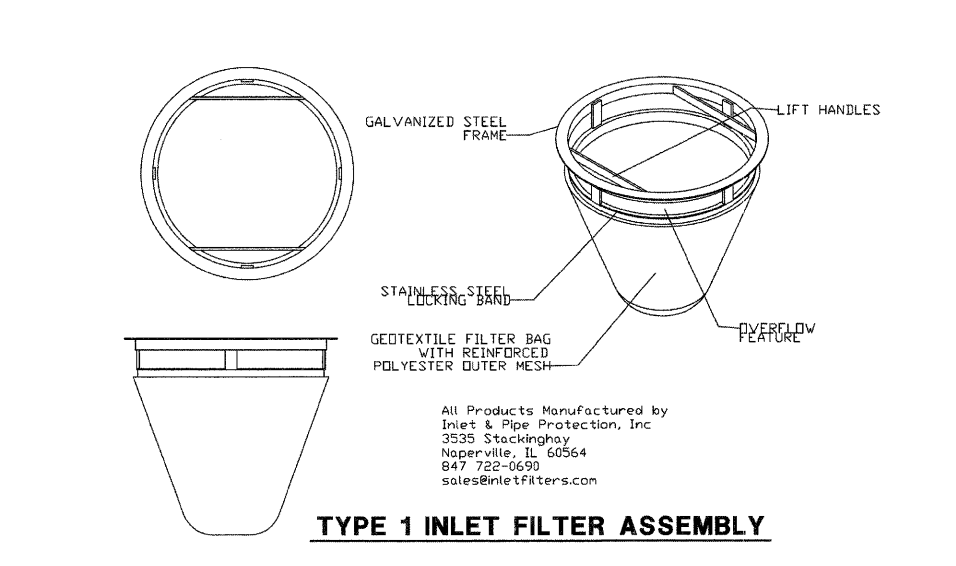
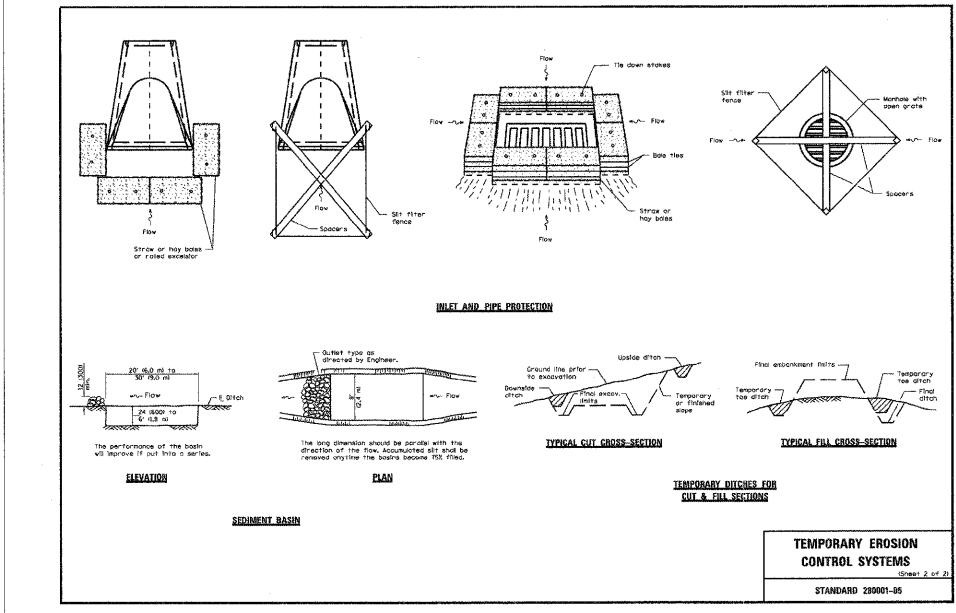
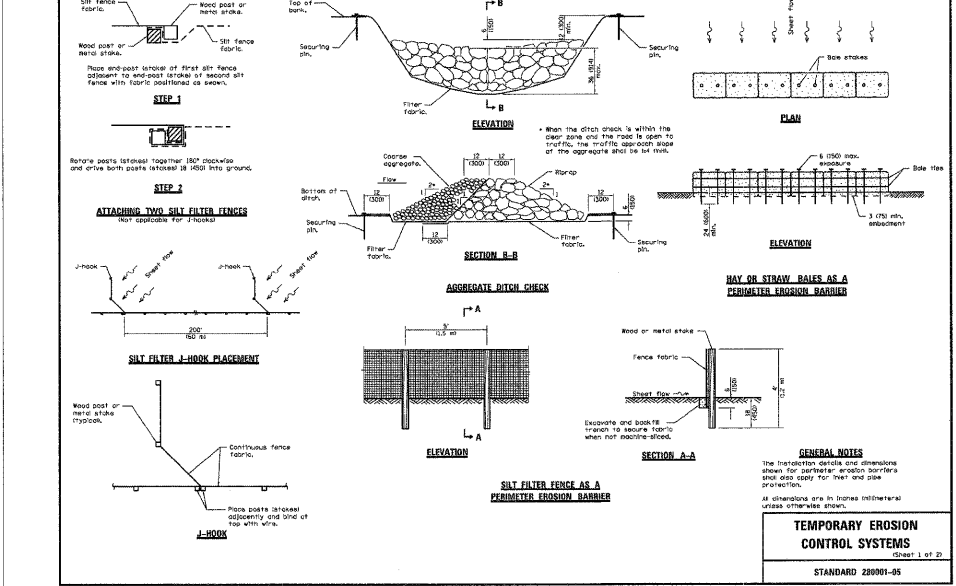
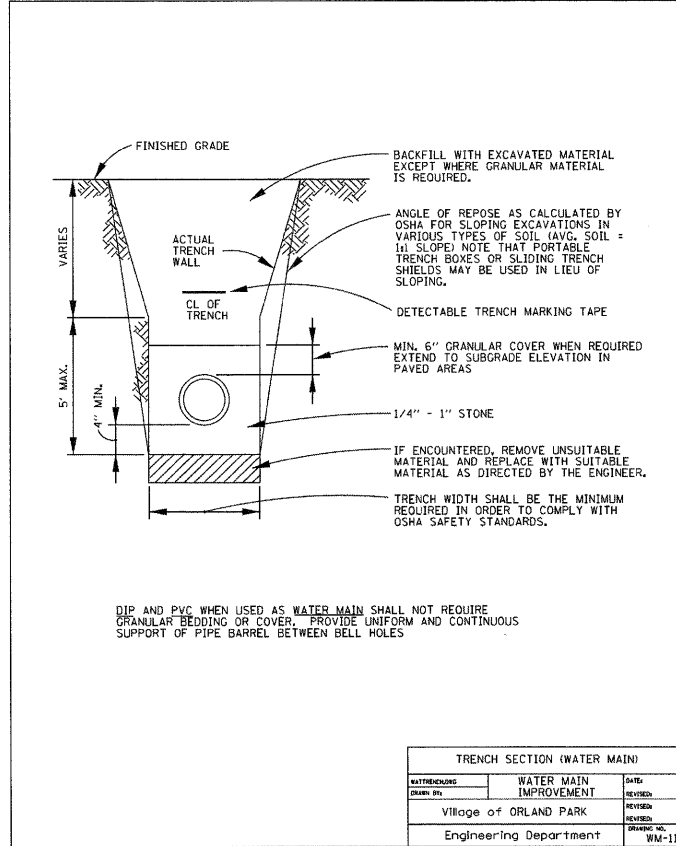
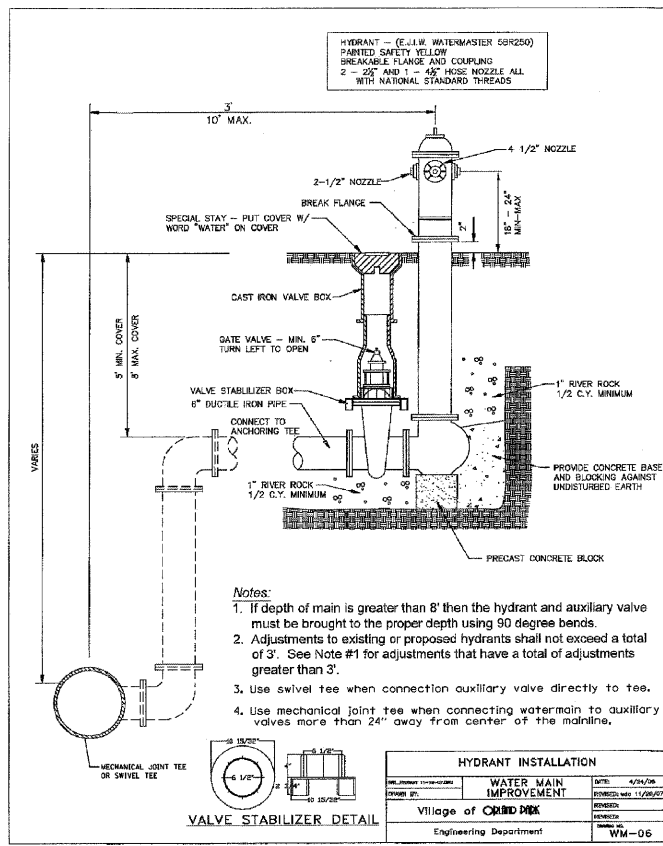
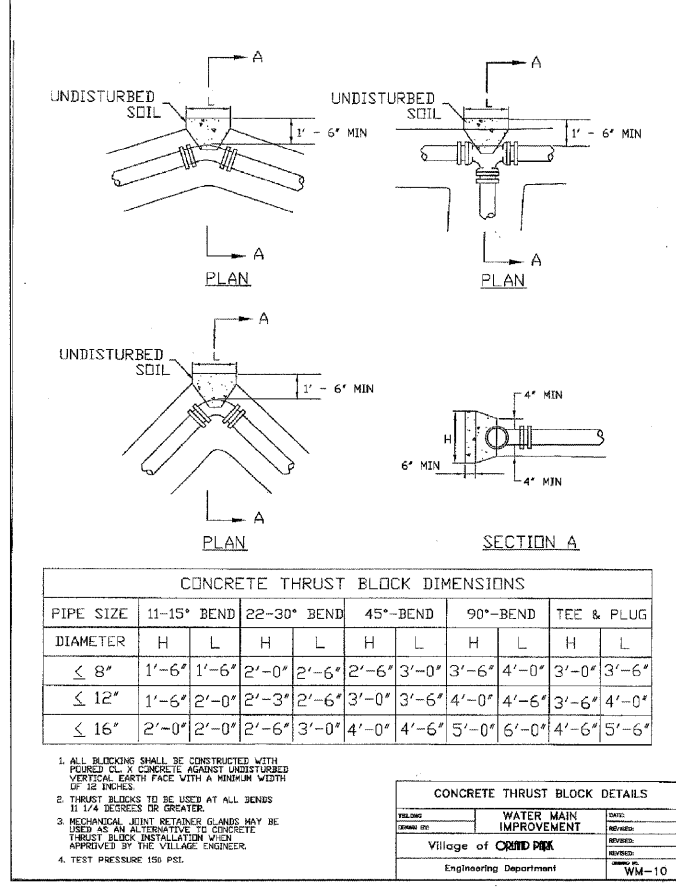
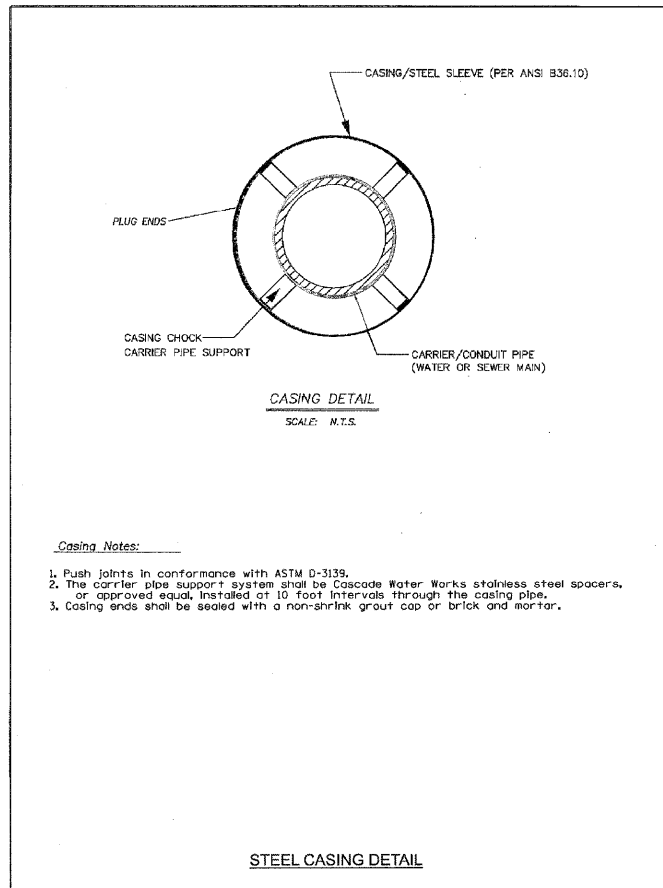


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ALIGNED	
CHECKED	
DATE	
FILE NAME	
NO.	

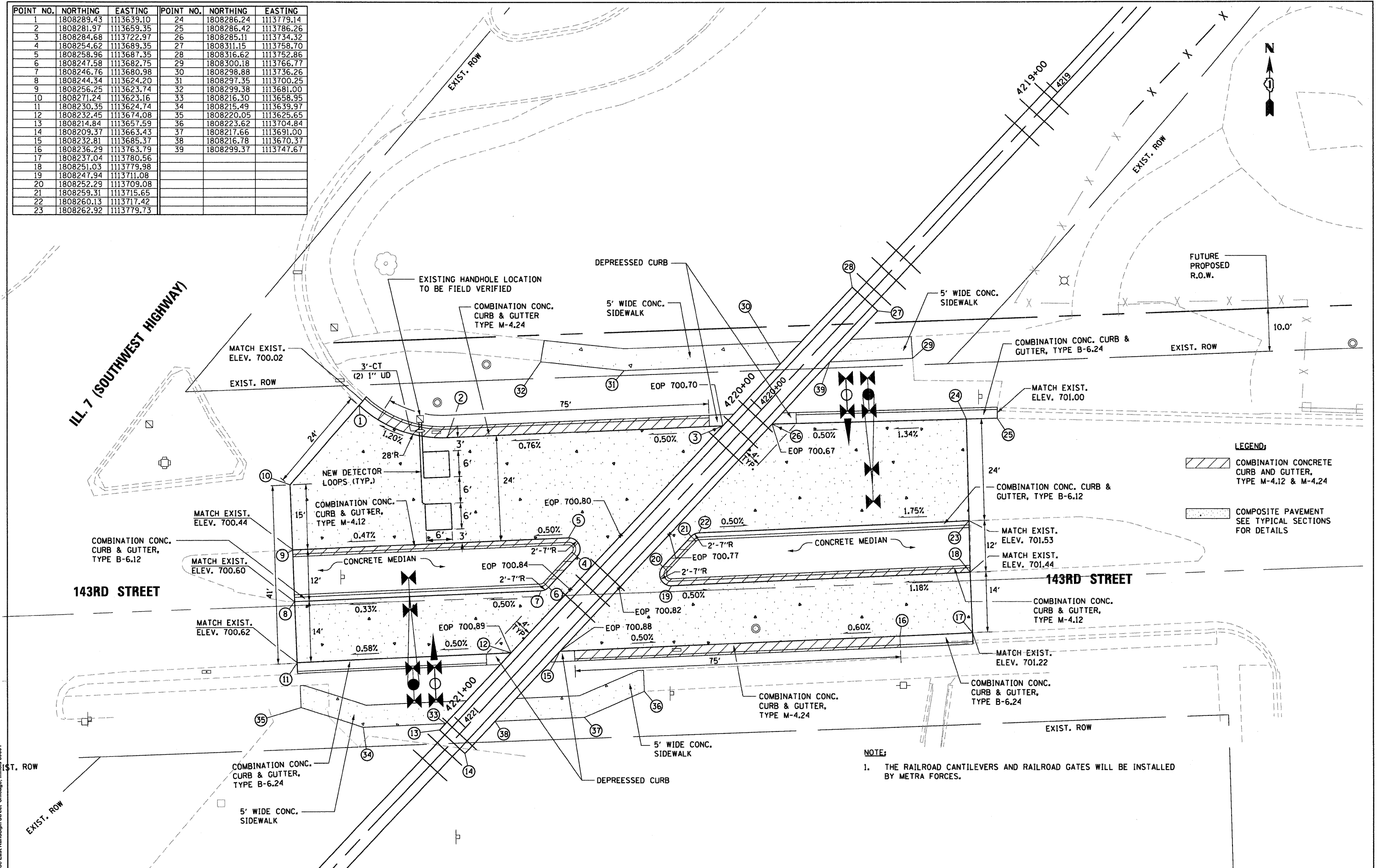
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REVISIONS	
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DATE	
FILE NAME	
NO.	



FILE NAME =	USER NAME = #USER#	DESIGNED -	REVISED -	<b>STATE OF ILLINOIS DEPARTMENT OF TRANSPORTATION</b>	<b>143RD ST AND SW HWY WATERMAIN CONNECTION PLAN AND PROFILE</b>	F.A.P. RTE. 330	SECTION 2010-135-I	COUNTY COOK	TOTAL SHEETS 101	SHEET NO. 36	
#FILE#		DRAWN -	REVISED -			CONTRACT NO. 60N09		ILLINOIS FED. AID PROJECT			
PLOT SCALE = #SCALE#		CHECKED -	REVISED -			SCALE: SHEET NO. OF SHEETS STA. TO STA.					
PLOT DATE = 12/13/2010		DATE -	REVISED -								



POINT NO.	NORTHING	EASTING	POINT NO.	NORTHING	EASTING
1	1808289.43	1113639.10	24	1808286.24	1113779.14
2	1808281.97	1113659.35	25	1808286.42	1113786.26
3	1808284.68	1113722.97	26	1808285.11	1113734.32
4	1808254.62	1113689.35	27	1808311.15	1113758.70
5	1808258.96	1113687.35	28	1808316.62	1113752.86
6	1808247.58	1113682.75	29	1808300.18	1113766.77
7	1808246.76	1113680.98	30	1808298.88	1113736.26
8	1808244.34	1113624.20	31	1808297.35	1113700.25
9	1808256.25	1113623.74	32	1808299.38	1113681.00
10	1808271.24	1113623.16	33	1808216.30	1113658.95
11	1808230.35	1113624.74	34	1808215.49	1113639.97
12	1808232.45	1113674.08	35	1808220.05	1113625.65
13	1808214.84	1113657.59	36	1808223.62	1113704.84
14	1808209.37	1113663.43	37	1808217.66	1113691.00
15	1808232.81	1113685.37	38	1808216.78	1113670.37
16	1808236.29	1113763.79	39	1808299.37	1113747.67
17	1808237.04	1113780.56			
18	1808251.03	1113779.98			
19	1808247.94	1113711.08			
20	1808252.29	1113709.08			
21	1808259.31	1113715.65			
22	1808260.13	1113717.42			
23	1808262.92	1113779.73			



**LEGEND:**

COMBINATION CONCRETE CURB AND GUTTER, TYPE M-4.12 & M-4.24

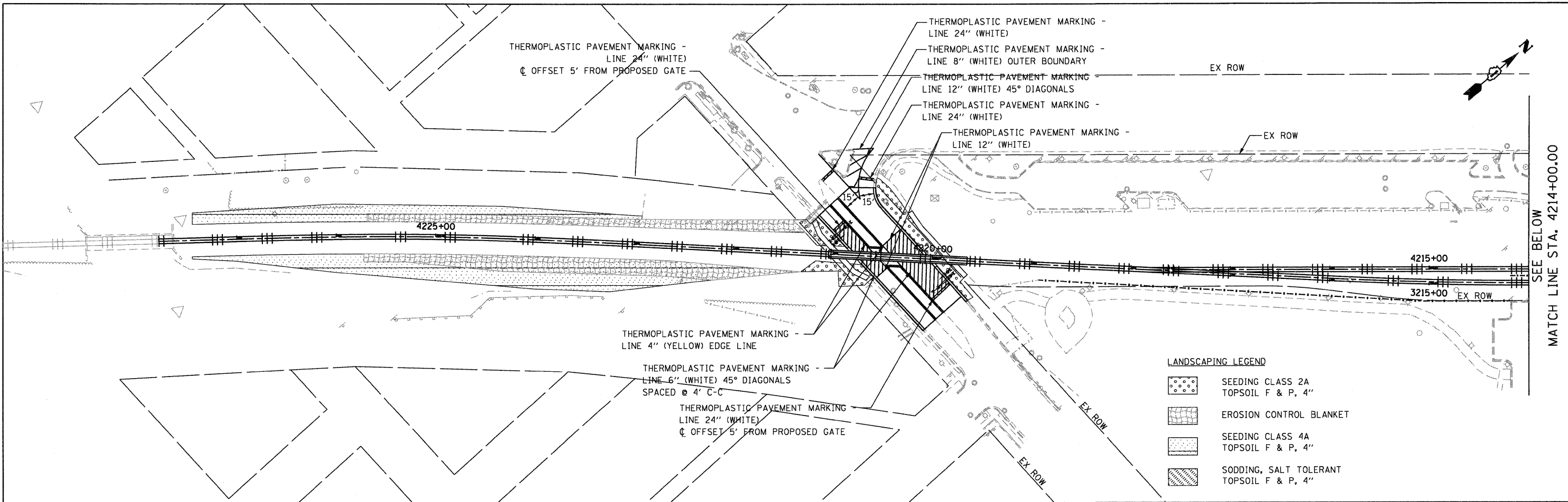
COMPOSITE PAVEMENT SEE TYPICAL SECTIONS FOR DETAILS

**NOTE:**

1. THE RAILROAD CANTILEVERS AND RAILROAD GATES WILL BE INSTALLED BY METRA FORCES.

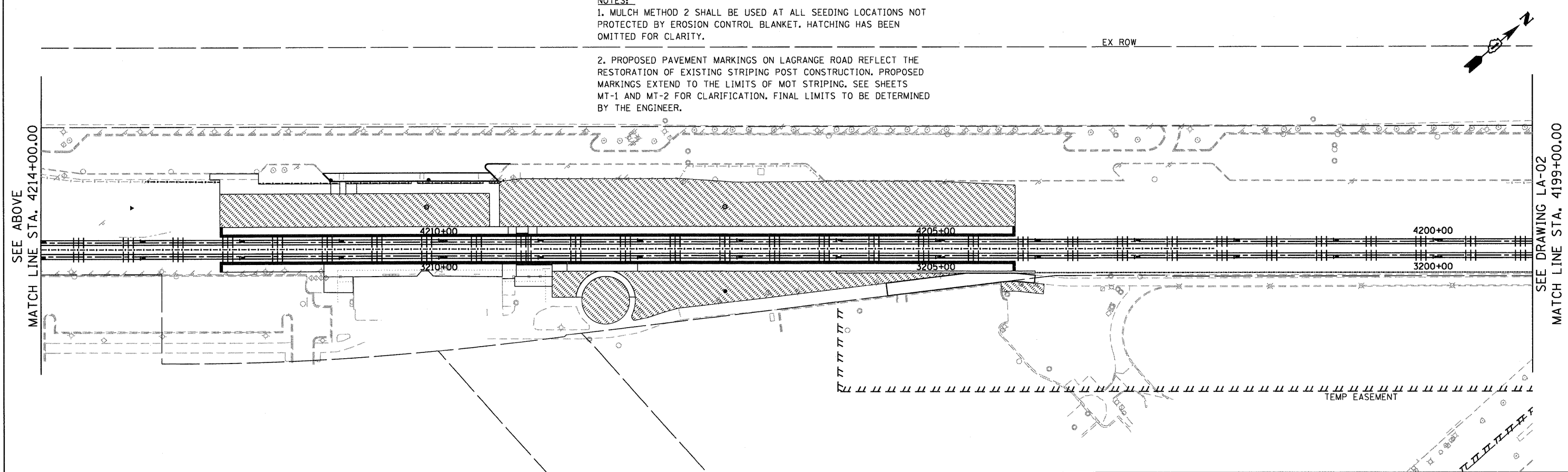
McDonough Associates Inc.  
 Engineers / Architects  
 130 East Randolph Street, Chicago, Illinois 60601

FILE NAME = D:\160809-SHT-PD01.dgn	USER NAME = TKI\uegl	DESIGNED - BA	REVISED -	<b>STATE OF ILLINOIS DEPARTMENT OF TRANSPORTATION</b>	<b>PAVEMENT ELEVATION AND DETAILS</b>			F.A.P. RTE. 330	SECTION 2010-135-1	COUNTY COOK	TOTAL SHEETS 101	SHEET NO. 38
PLOT SCALE = 1"=10'	PLOT DATE = 12/29/2010	DRAWN - BA	REVISED -		SCALE: 1"=10'	SHEET NO. 1 OF 1 SHEETS	STA. TO STA.	CONTRACT NO. 60N09				
CHECKED - MJT	DATE - 12/17/10	REVISOR -	REVISOR -		ILLINOIS FED. AID PROJECT							



SEE BELOW  
MATCH LINE STA. 4214+00.00

**NOTES:**  
 1. MULCH METHOD 2 SHALL BE USED AT ALL SEEDING LOCATIONS NOT PROTECTED BY EROSION CONTROL BLANKET. HATCHING HAS BEEN OMITTED FOR CLARITY.  
 2. PROPOSED PAVEMENT MARKINGS ON LAGRANGE ROAD REFLECT THE RESTORATION OF EXISTING STRIPING POST CONSTRUCTION. PROPOSED MARKINGS EXTEND TO THE LIMITS OF MOT STRIPING. SEE SHEETS MT-1 AND MT-2 FOR CLARIFICATION. FINAL LIMITS TO BE DETERMINED BY THE ENGINEER.

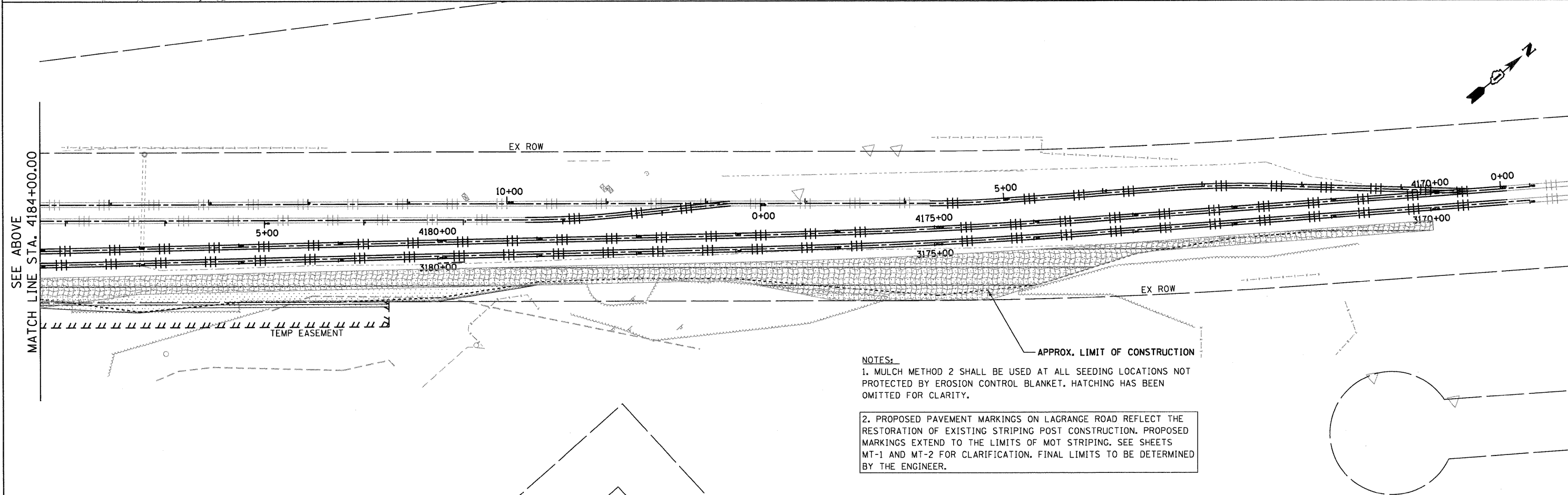
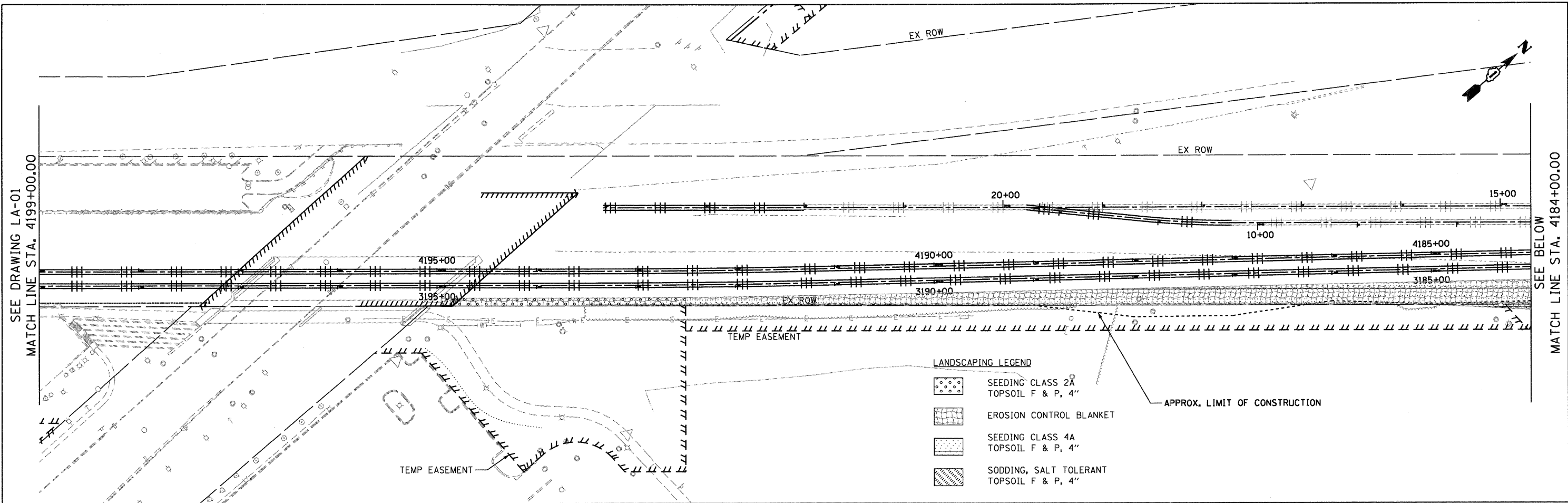


SEE ABOVE  
MATCH LINE STA. 4214+00.00

SEE DRAWING LA-02  
MATCH LINE STA. 4199+00.00

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 Engineers / Architects  
 130 East Randolph Street, Chicago, Illinois 60601

FILE NAME = DIS0289-SHT-LNDCSP01.dgn	USER NAME = TKLuegl	DESIGNED - JCL	REVISED -	<b>STATE OF ILLINOIS DEPARTMENT OF TRANSPORTATION</b>	<b>LANDSCAPE, PAVEMENT MARKING AND SIGNING PLAN</b>	F.A.P. RTE. 330	SECTION 2010-135-1	COUNTY COOK	TOTAL SHEETS 101	SHEET NO. 39	
PLOT SCALE = 1:50	CHECKED - MJT	REVISED -	SCALE: 1"=50'			SHEET NO. 1 OF 2 SHEETS	STA. TO STA.	<b>LA-01</b>		CONTRACT NO. 60N09	
PLOT DATE = 12/29/2010	DATE - 12/17/10	REVISED -	ILLINOIS FED. AID PROJECT								



**NOTES:**  
 1. MULCH METHOD 2 SHALL BE USED AT ALL SEEDING LOCATIONS NOT PROTECTED BY EROSION CONTROL BLANKET. HATCHING HAS BEEN OMITTED FOR CLARITY.  
 2. PROPOSED PAVEMENT MARKINGS ON LAGRANGE ROAD REFLECT THE RESTORATION OF EXISTING STRIPING POST CONSTRUCTION. PROPOSED MARKINGS EXTEND TO THE LIMITS OF MOT STRIPING. SEE SHEETS MT-1 AND MT-2 FOR CLARIFICATION. FINAL LIMITS TO BE DETERMINED BY THE ENGINEER.

FILE NAME = D160809-SHT-LNDSCP02.dgn	USER NAME = TK1uegl	DESIGNED - JCL	REVISED -	<b>STATE OF ILLINOIS DEPARTMENT OF TRANSPORTATION</b>	<b>LANDSCAPE, PAVEMENT MARKING AND SIGNING PLAN</b>	F.A.P. RTE. 330	SECTION 2010-135-1	COUNTY COOK	TOTAL SHEETS 101	SHEET NO. 40	
PLOT SCALE = 1:50	DRAWN - JCL	CHECKED - MJT	REVISED -			<b>LA-02</b>		CONTRACT NO. 60N09			
PLOT DATE = 12/29/2010	DATE - 12/17/10	REVISED -	REVISED -			ILLINOIS FED. AID PROJECT					
		SCALE: 1"=50'	SHEET NO. 2 OF 2 SHEETS			STA.	TO STA.				



**NOTES**

1. THROUGHOUT THE CONSTRUCTION PROCESS, THE CONTRACTOR SHALL STAGE DEMOLITION AND CONSTRUCTION IN ORDER TO MAINTAIN STATION OPERATION.
2. THE CONTRACTOR SHALL VISIT THE SITE AND BE KNOWLEDGEABLE OF CONDITIONS THEREOF. HE SHALL INVESTIGATE, VERIFY AND BE RESPONSIBLE FOR ALL CONDITIONS OF THE PROJECT AND SHALL NOTIFY IDOT OF ANY CONDITIONS REQUIRING MODIFICATION BEFORE PROCEEDING WITH THE WORK.
3. DURING THE INITIAL SITE VISIT AND THROUGHOUT THE PROJECT, THE CONTRACTOR SHALL NOTIFY IDOT OF DISCREPANCIES IN THE CONTRACT DOCUMENTS OR UPON THE DISCOVERY OF ANY CONDITIONS, APPARENT OR HIDDEN, THAT COULD AFFECT THE CURRENT SCOPE OF THE PROJECT AND THE CONTRACTOR'S WORK.
4. THE CONTRACTOR SHALL BE RESPONSIBLE FOR COORDINATION OF ALL WORK OF THE SUBCONTRACTORS, INCLUDING BUT NOT LIMITED TO ALL CIVIL, ARCHITECTURAL, STRUCTURAL, AND ELECTRICAL TRADES.
5. THE CONTRACTOR SHALL ENSURE EACH SUBCONTRACTOR IS FAMILIAR WITH THE CONDITIONS OF THE PROJECT, HAS A FULL UNDERSTANDING OF THEIR WORK AND ALL OTHER WORK RELATED TO THEIR WORK.
6. CONTRACT DOCUMENTS ARE TO BE ISSUED TO THE SUBCONTRACTORS BY THE CONTRACTOR IN COMPLETE SETS SO THAT THE EXTENT AND COORDINATION OF WORK IS MADE POSSIBLE.
7. THE CONTRACTOR SHALL PERFORM ALL WORK IN ACCORDANCE WITH THE CURRENT LOCALLY ADOPTED BUILDING CODES AND ALL APPLICABLE COUNTY, STATE AND FEDERAL LAWS INCLUDING THE OCCUPATIONAL SAFETY AND HEALTH ACT (OSHA) AND REGULATIONS ADOPTED PURSUANT THERETO.
8. THE CONTRACT DOCUMENTS DO NOT INCLUDE STANDARDS OR GUIDELINES FOR CONSTRUCTION SAFETY. THE CONTRACTOR SHALL BE RESPONSIBLE FOR THE ADEQUACY AND SAFETY OF ALL CONSTRUCTION METHODS AND THE SAFE PROSECUTION OF THE WORK, INCLUDING BUT NOT LIMITED TO FORMS, FALSE WORK, SCAFFOLDING, PROTECTIVE BARRICADES, PROTECTIVE RAILS AND WARNING LIGHTS. IT IS EXPRESSLY STIPULATED THAT ANY EXAMINATION AND/OR APPROVAL BY THE ENGINEER OF THE CONTRACTOR'S DRAWINGS FOR SUCH ITEMS AS WELL AS FOR ANY OTHER ITEMS NEEDED FOR THE PROSECUTION OF THE WORK WILL COVER ONLY GENERAL CONFORMANCE WITH THE DESIGN CONCEPT OF THE PROJECT AND GENERAL COMPLIANCE WITH THE INFORMATION GIVEN IN THE CONTRACT DOCUMENTS. THE CONTRACTOR SHALL ASSUME FULL AND COMPLETE RESPONSIBILITY FOR SAFE PROSECUTION OF WORK AT ALL TIMES AND FOR OBTAINING SATISFACTORY RESULTS.
9. PROTECTION OF PROPERTY, SITE, WORKERS AND THE PUBLIC IS THE SOLE RESPONSIBILITY OF THE CONTRACTOR. ALL WORK SHALL CONFORM WITH APPLICABLE LOCAL, STATE AND FEDERAL CODES AND REGULATIONS. THE USE OF CANOPIES, BARRICADES, SIGNS, ETC. IS THE SOLE RESPONSIBILITY OF THE CONTRACTOR.
10. THE CONTRACTOR SHALL PROTECT ALL EXISTING SITE ELEMENTS TO REMAIN FROM DAMAGE DUE TO ALTERATION AND CONSTRUCTION OPERATIONS, AND REPAIR OR REPLACE ELEMENTS DAMAGED DURING THIS PROJECT.
11. ANY UTILITY SHUT-OFF AS REQUIRED BY THE SUBCONTRACTORS FOR COMPLETION OF THEIR WORK, SUCH AS ELECTRICAL, GAS, WATER, SEWER, ETC. MUST BE SCHEDULED WITH THE BNSF, METRA AND THE APPROPRIATE UTILITY COMPANIES PRIOR TO COMMENCEMENT.
12. THE INDICATIONS OF EXISTING CONDITIONS IN THE CONTRACT DOCUMENTS ARE DIAGRAMMATIC. EXACT LOCATIONS, SIZES, EXTENT AND CONDITIONS OF EXISTING CONSTRUCTION TO BE REMOVED, RELOCATED OR TO REMAIN SHALL BE VERIFIED AT THE SITE BY THE CONTRACTOR.

13. ALL DIMENSIONS SHALL BE VERIFIED IN THE FIELD BEFORE PROCEEDING WITH THE WORK. THROUGHOUT THE PROGRESS OF THE PROJECT, EACH SUBCONTRACTOR SHALL FIELD VERIFY CONDITIONS AND DIMENSIONS OF THE SITE AND OF INSTALLED WORK WHICH INTERFACES WITH AND/OR IMPACTS THEIR PORTION OF THE WORK. THE CONTRACTOR SHALL BE RESPONSIBLE FOR ENSURING FIELD VERIFICATION BY THE SUBCONTRACTORS, AND SHALL COORDINATE THE RESOLUTION OF DIMENSION CONFLICTS. THE CONTRACTOR SHALL NOTIFY IDOT BEFORE PROCEEDING WITH THE WORK WHEN A RESOLUTION CANNOT BE DETERMINED OR THE RESOLUTION WOULD CAUSE DESIGN INTENT TO BE ALTERED.
14. WHERE SPECIFIC DIMENSIONS, DETAILS AND DESIGN INTENT CANNOT BE DETERMINED, NOTIFY IDOT BEFORE PROCEEDING WITH ANY WORK IN QUESTION.
15. DETAILS SHOWN IN THE CONTRACT DOCUMENTS ARE INTENDED TO BE INDICATIVE OF THE PROFILES AND TYPE OF DETAILING REQUIRED FOR THE WORK. ASSUME DETAILS NOT SHOWN ARE SIMILAR IN CONSTRUCTION TO THOSE DETAILED WITH RESPECT TO RELATED ASSEMBLIES. WHERE DESIGN INTENT CANNOT BE DETERMINED, THE CONTRACTOR SHALL CONSULT IDOT BEFORE PROCEEDING WITH THE WORK.
16. DIMENSIONS SHALL GOVERN. DO NOT SCALE DRAWINGS. THE CONTRACTOR SHALL NOTIFY IDOT IN WRITING OF ANY DISCREPANCIES, OMISSIONS AND/OR CONFLICTS BEFORE PROCEEDING WITH THE WORK.
17. MATERIAL SYMBOLS ARE FOR GENERAL REFERENCE PURPOSES ONLY. REFER TO SPECIFICATIONS FOR ACTUAL MATERIAL DESIGNATIONS.
18. THE CONTRACTOR SHALL NOTIFY ALL AGENCIES AND UTILITIES AT LEAST 10 DAYS PRIOR TO ANY CONSTRUCTION IN THE AREA AND SHALL COMPLY WITH ALL RESTRICTIONS FOR EQUIPMENT MOVEMENT AND CLEARANCES WITH REGARD TO THEIR FACILITIES. BEFORE STARTING ANY EXCAVATION, THE CONTRACTOR SHALL CALL "JULIE" AT 800-892-0123 FOR FIELD LOCATIONS OF BURIED UTILITIES; A 48 HOUR NOTIFICATION IS REQUIRED. CONTRACTOR SHALL ALSO CONTACT BNSF RAILROAD AND UP RAILROAD TO LOCATE RAILROAD UTILITIES NOT COVERED BY "JULIE".

WORK BY METRA FORCES

NOTE: ALL MATERIAL FOR WORK BY METRA FORCES SHALL BE FURNISHED BY THE CONTRACTOR.

PLATFORM CONSTRUCTION:  
ALL PLATFORM CONSTRUCTION, INCLUDING THE INSTALLATION OF THE DETECTABLE WARNING TILES, SHALL BE DONE BY METRA FORCES WITH MATERIALS FURNISHED BY THE CONTRACTOR EXCEPT THE INSTALLATION OF THE PLATFORM SURFACE AND BINDER WHICH SHALL BE INSTALLED BY THE CONTRACTOR.

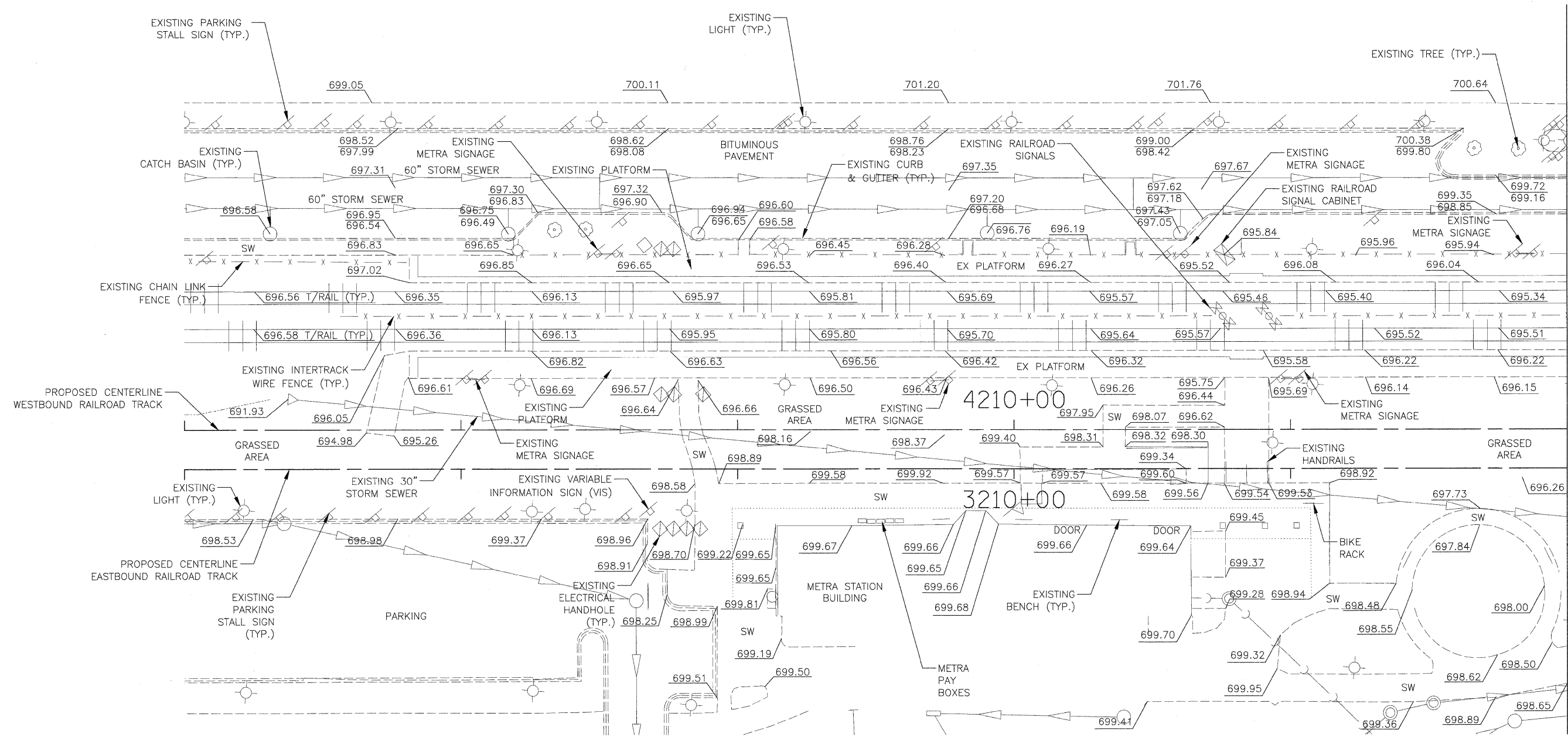
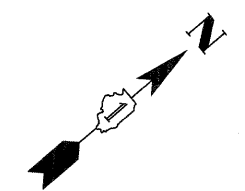
INTERTRACK WORK:  
THE INSTALLATION OF TIMBER CROSSWALKS AND INTERTRACK FENCING SHALL BE INSTALLED BY METRA FORCES WITH MATERIALS FURNISHED BY THE CONTRACTOR.

PLATFORM LIGHTING:  
THE INSTALLATION OF PLATFORM LIGHTING, INCLUDING THE CONCRETE FOUNDATIONS (SONO-TUBES, FORMS, STEEL REINFORCEMENT AND ANCHOR BOLTS), LIGHT POLES, FIXTURES, CABLE AND CONDUIT SHALL BE DONE BY METRA FORCES WITH MATERIALS FURNISHED BY THE CONTRACTOR.

**STRUCTURAL GENERAL NOTES**

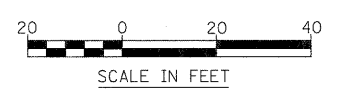
1. COMPRESSIVE STRENGTH FOR ALL CONCRETE SHALL BE 3500 PSI.
2. MINIMUM CONCRETE COVER OVER REINFORCING STEEL SHALL BE 3" FOR CONCRETE CAST AGAINST EARTH AND 2" FOR ALL OTHER SURFACES UNLESS NOTED OTHERWISE.
3. ALL EXPOSED CONCRETE EDGES SHALL HAVE A 3/4" CHAMFER. CHAMFER ON VERTICAL EDGES SHALL CONTINUE A MINIMUM OF ONE FOOT BELOW FINISHED GROUND LEVEL.
4. ALL REINFORCING BARS SHALL BE EPOXY COATED.
5. EPOXY COATED REINFORCING STEEL SHALL COMPLY WITH ASTM A775.
6. ALL DEFORMED REINFORCING STEEL SHALL COMPLY WITH ASTM A615, GRADE 60.
7. CONCRETE SEALANT SHALL BE APPLIED TO ALL EXPOSED CONCRETE SURFACES.

FILE NAME =	USER NAME = JSpiekermann	DESIGNED MGS	REVISED -	<b>STATE OF ILLINOIS DEPARTMENT OF TRANSPORTATION</b>	<b>METRA STATION AND PLATFORMS GENERAL NOTES</b>			F.A. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
		DRAWN MGS	REVISED -					330	2010-135-I	COOK	101	41
	PLOT SCALE = NONE	CHECKED JRS	REVISED -					<b>MS-1</b>		CONTRACT NO. 60N09		
	PLOT DATE = 08/13/10	DATE 12/27/10	REVISED -					SCALE: NONE	SHEET NO. 1 OF 1 SHEETS	STA. TO STA.	ILLINOIS FED. AID PROJECT	

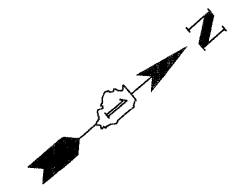


MATCH LINE STA. 3208+00/4208+00

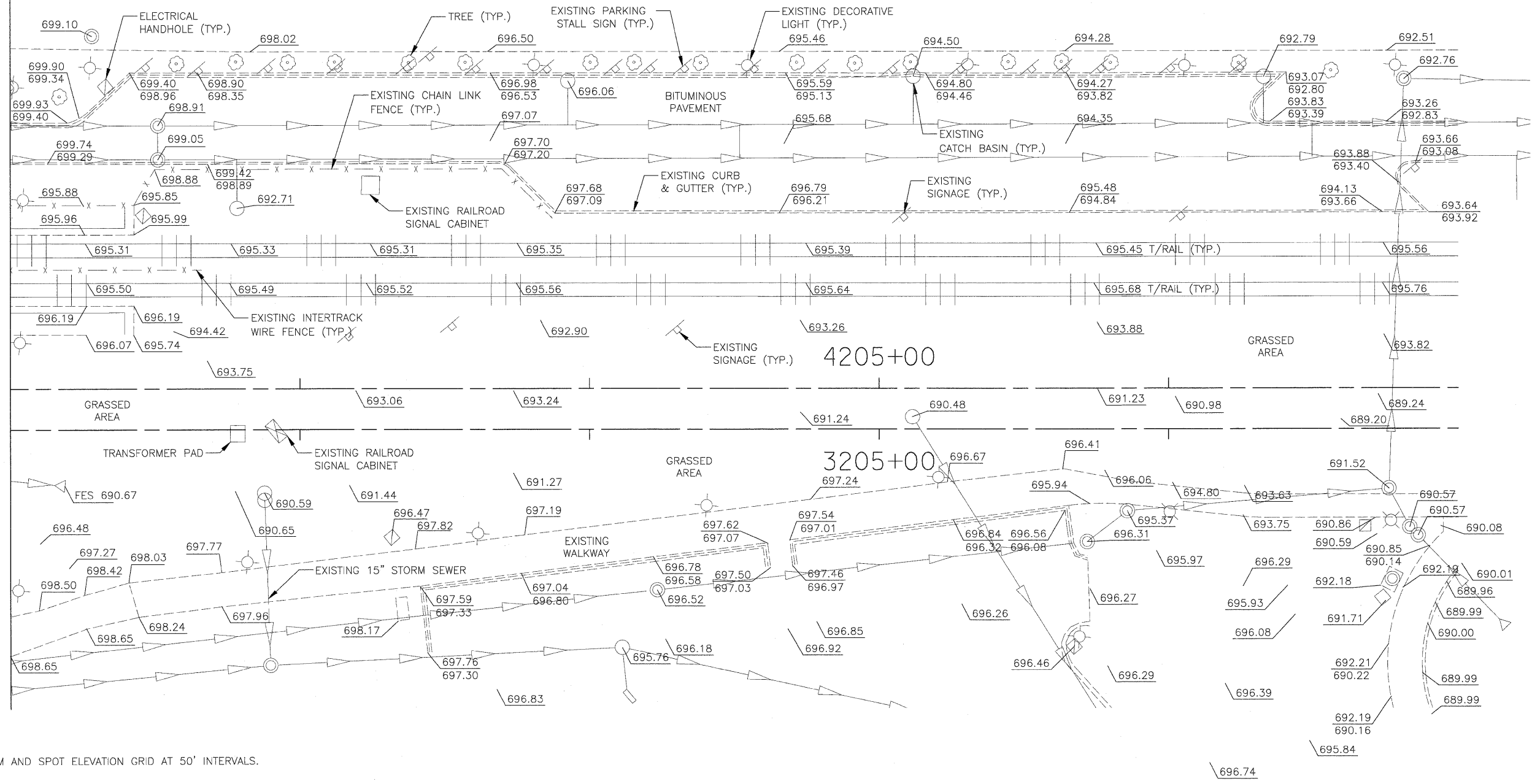
NOTE:  
PLATFORM AND SPOT ELEVATION GRID AT 50' INTERVALS.



FILE NAME =	USER NAME = JSpiekermann	DESIGNED MGS	REVISED -	<b>STATE OF ILLINOIS DEPARTMENT OF TRANSPORTATION</b>	<b>METRA STATION AND PLATFORMS EXISTING CONDITIONS PLAN</b>			F.A. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.		
	PLOT SCALE = 1" = 20'	CHECKED JRS	REVISED -					330	2010-135-I	COOK	101	42		
	PLOT DATE = 08/13/10	DATE 12/27/10	REVISED -					SCALE: 1"=20'		SHEET NO. 1 OF 2 SHEETS	STA.	TO STA.	CONTRACT NO. 60N09	
									MS-2		ILLINOIS FED. AID PROJECT			



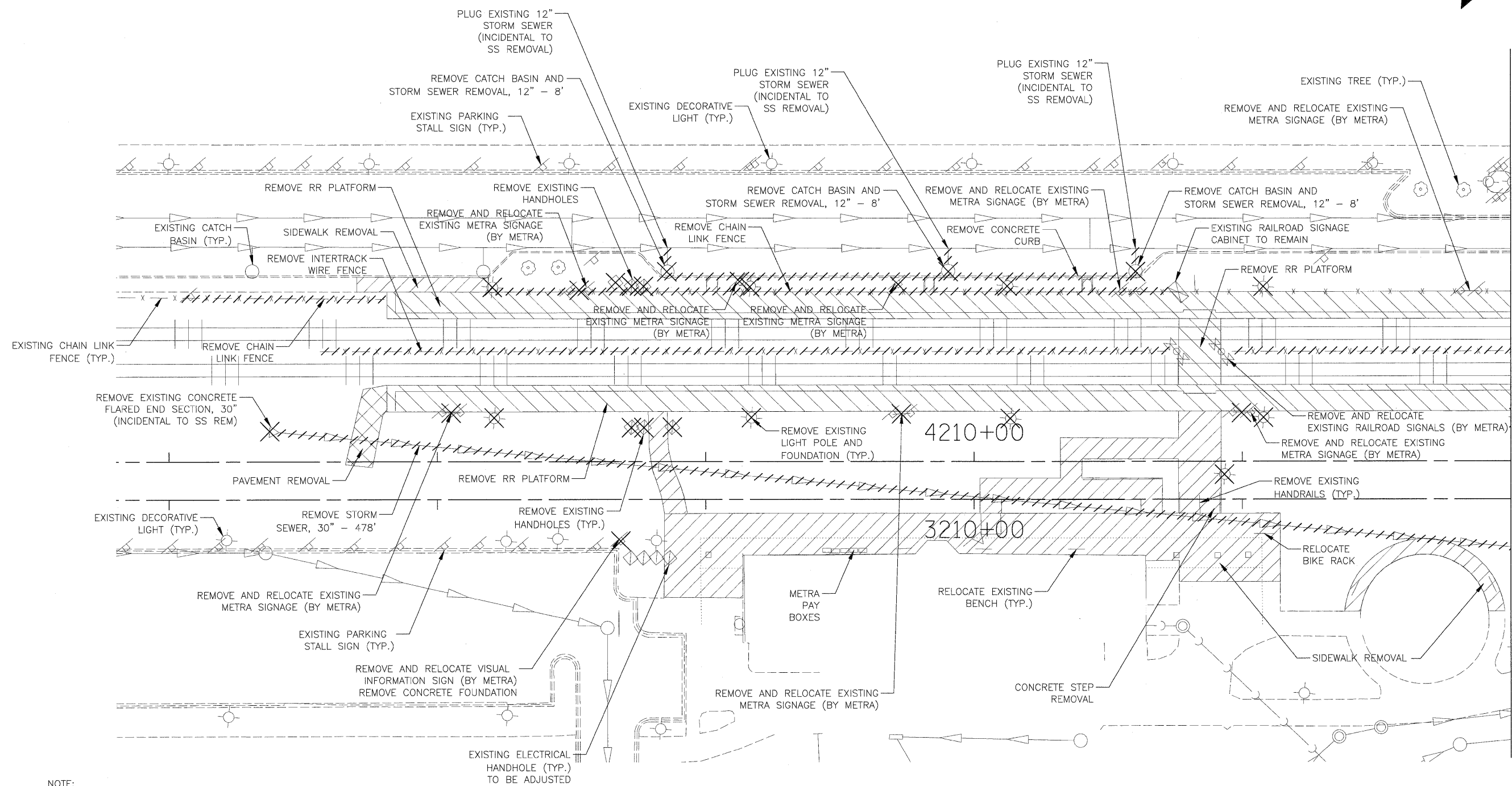
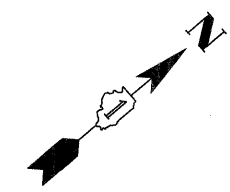
MATCH LINE STA. 3208+00/4208+00



NOTE:  
PLATFORM AND SPOT ELEVATION GRID AT 50' INTERVALS.



FILE NAME =	USER NAME = JSpliekermann	DESIGNED MGS	REVISED -	<b>STATE OF ILLINOIS DEPARTMENT OF TRANSPORTATION</b>	<b>METRA STATION AND PLATFORMS EXISTING CONDITIONS PLAN</b>		F.A. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
	DRAWN MGS	REVISED -	330				2010-135-1	COOK	101	43	
	PLOT SCALE = 1" = 20'	CHECKED JRS	REVISED -				<b>MS-3</b>		CONTRACT NO. 60N09		
	PLOT DATE = 08/13/10	DATE 12/27/10	REVISED -				SCALE: 1"=20'		SHEET NO. 2 OF 2 SHEETS	STA. TO STA.	ILLINOIS FED. AID PROJECT



MATCH LINE STA. 3208+00/4208+00

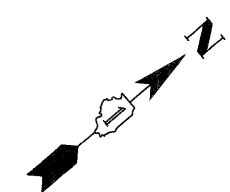
**NOTE:**

1. ALL CONCRETE FOUNDATIONS FOR HANDRAILS, FENCE POSTS, SIGNS, AND OTHER FEATURES TO BE REMOVED ARE TO BE INCLUDED IN THE CONTRACT UNIT PRICE FOR ITEM/FEATURE TO BE REMOVED.
2. ALL TEMPORARY AND PERMANENT ALTERATIONS OR RELOCATIONS OF COMMUNICATIONS AND SIGNAL WIRE LINES, SIGNALS AND RAILROAD APPURTENANCES WITHIN METRA ROW WILL BE COMPLETED BY METRA FORCES.

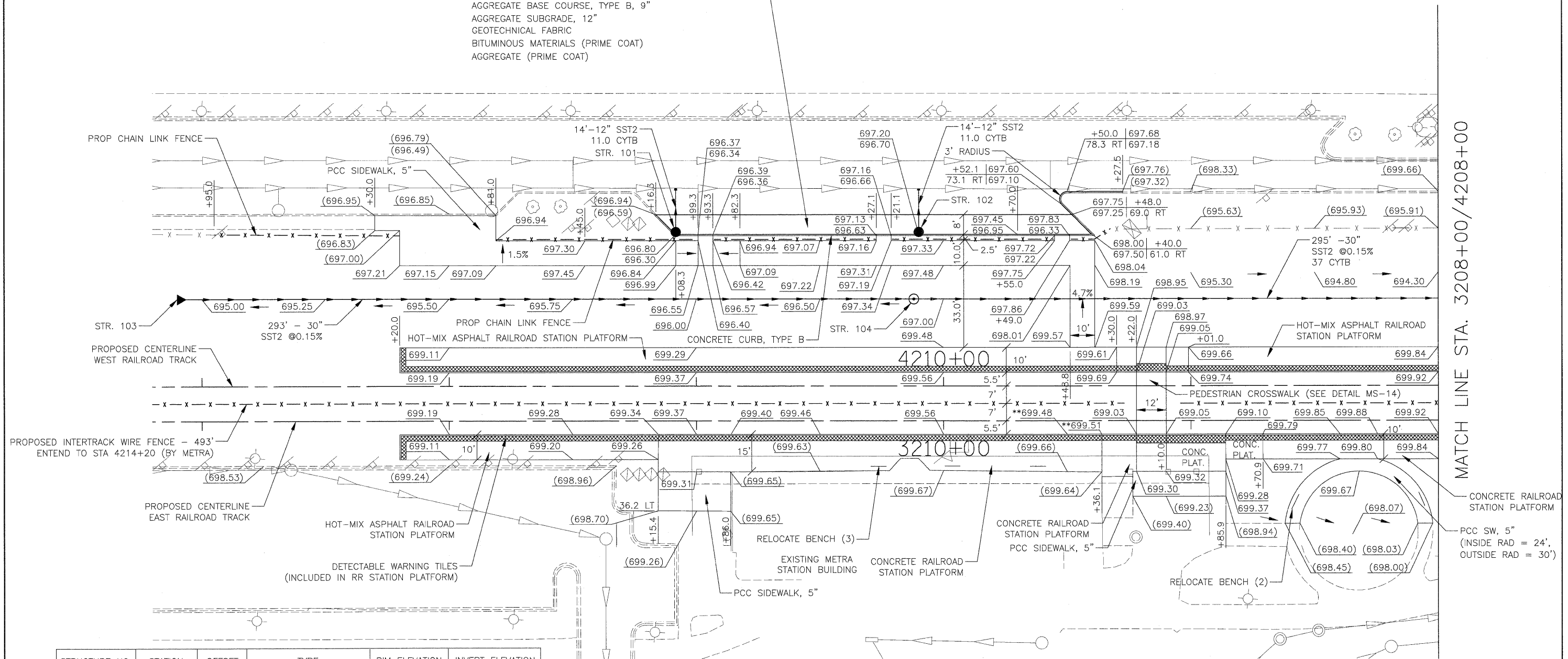


FILE NAME =	USER NAME = JSpieckermann	DESIGNED MGS	REVISED -	<b>STATE OF ILLINOIS DEPARTMENT OF TRANSPORTATION</b>	<b>METRA STATION AND PLATFORMS DEMOLITION PLAN</b>	F.A. RTE. 330	SECTION 2010-135-I	COUNTY COOK	TOTAL SHEETS 101	SHEET NO. 44		
	PLOT SCALE = 1" = 20'	CHECKED JRS	REVISED -			SCALE: 1"=20'	SHEET NO. 1 OF 2 SHEETS	STA.	TO STA.	CONTRACT NO. 60N09		
	PLOT DATE = 08/13/10	DATE 12/27/10	REVISED -			ILLINOIS FED. AID PROJECT						
MS-4												





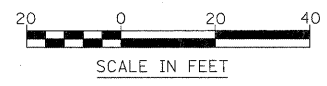
HOT-MIX ASPHALT SURFACE COURSE, MIX "D", N50, 1-1/2"  
 HOT-MIX ASPHALT BINDER COURSE, IL-19.0, N50, 2-1/4"  
 AGGREGATE BASE COURSE, TYPE B, 9"  
 AGGREGATE SUBGRADE, 12"  
 GEOTECHNICAL FABRIC  
 BITUMINOUS MATERIALS (PRIME COAT)  
 AGGREGATE (PRIME COAT)

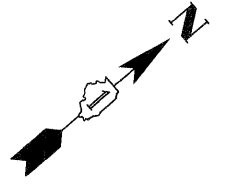


MATCH LINE STA. 3208+00/4208+00

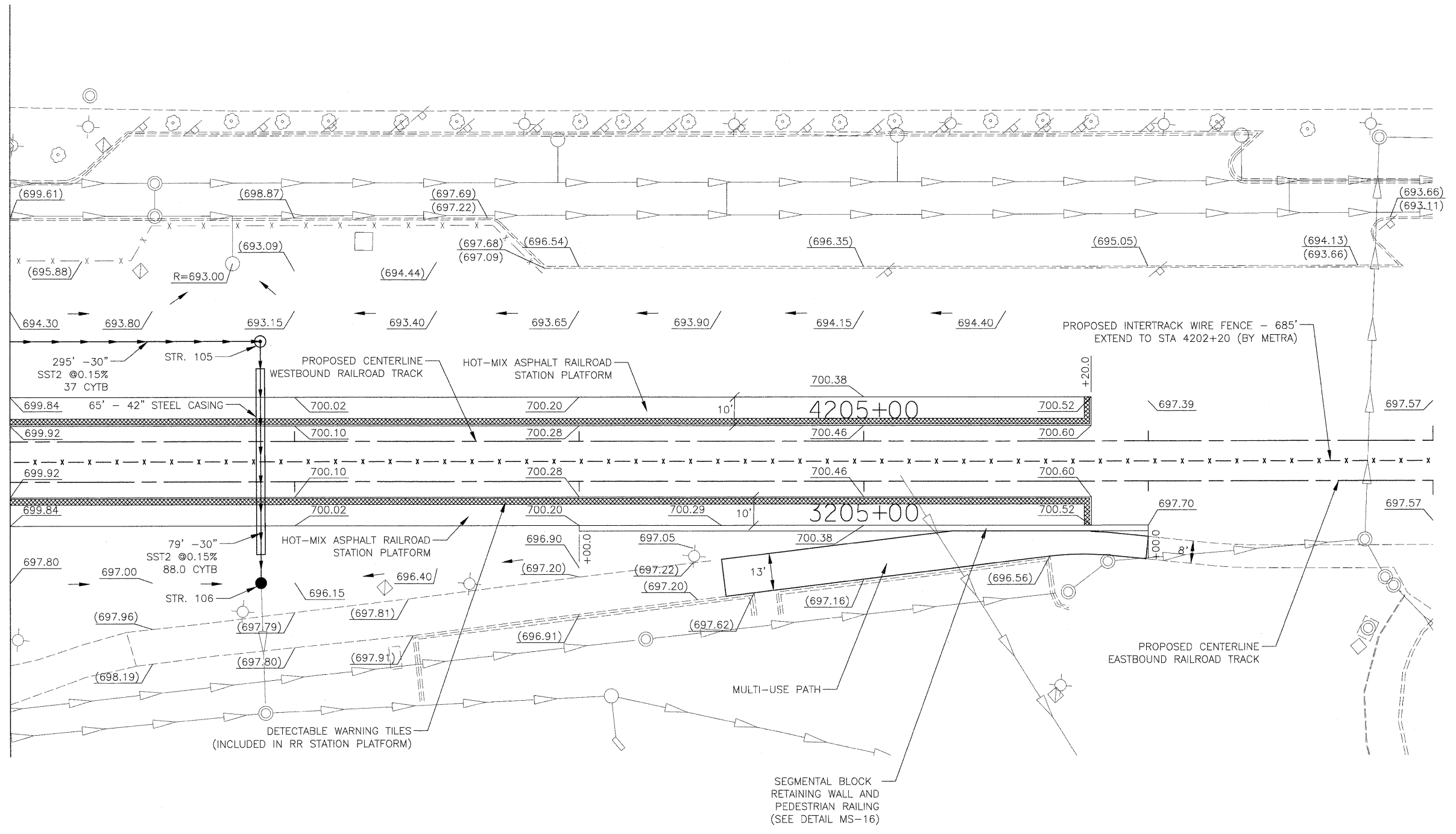
STRUCTURE NO.	STATION	OFFSET	TYPE	RIM ELEVATION	INVERT ELEVATION
101	4211+08.3	62.0' RT	CB TYPE C 2' DIA TYPE 1 F&G OPEN LID	696.30	692.00
102	4210+10.0	62.0' RT	CB TYPE C 2' DIA TYPE 1 F&G OPEN LID	696.70	692.00
103	4213+10.0	35.0' RT	FES, 30" WITH GRATING	N/A	687.70
104	4210+12.0	35.0' RT	MH TYPE A 5' DIA TYPE 1 CLOSED LID	696.90	687.16 NE 687.26 SW

NOTES:  
 1. \*\* ELEVATION SHALL BE +0.50 ABOVE TOP OF RAIL ELEVATION AT LOCATION

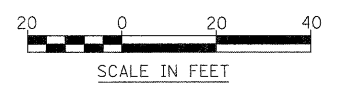




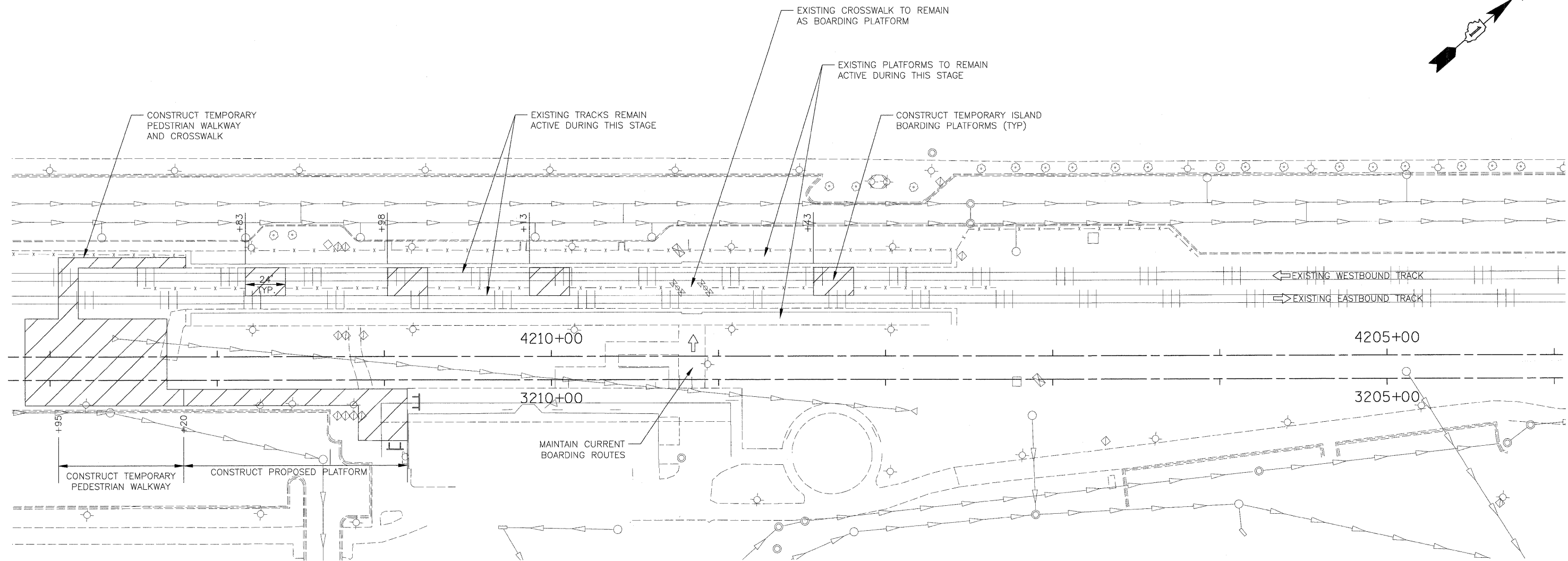
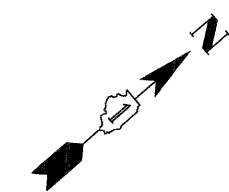
MATCH LINE STA. 3208+00/4208+00



STRUCTURE NO.	STATION	OFFSET	TYPE	RIM ELEVATION	INVERT ELEVATION
105	4207+12.0	35.0' RT	MH TYPE A 5' DIA TYPE 1 F&G CLOSED LID	695.50	686.62 SE 686.72 SW
106	4207+11.8	49.5' LT	CB TYPE A 5' DIA TYPE 1 F&G OPEN LID	696.00	(686.31) SE 686.50 NW



FILE NAME =	USER NAME = JSpiekermann	DESIGNED MGS	REVISED -	<b>STATE OF ILLINOIS DEPARTMENT OF TRANSPORTATION</b>	<b>METRA STATION AND PLATFORMS PROPOSED PLAN</b>	F.A. RTE. 330	SECTION 2010-135-I	COUNTY COOK	TOTAL SHEETS 101	SHEET NO. 47		
	PLOT SCALE = 1" = 20'	CHECKED JRS	REVISED -			SCALE: 1"=20'	SHEET NO. 2 OF 2 SHEETS	STA.	TO STA.	CONTRACT NO. 60N09		
	PLOT DATE = 08/13/10	DATE 12/27/10	REVISED -			ILLINOIS FED. AID PROJECT						



**GENERAL CONSTRUCTION STAGING NOTES**

**PRE-STAGE**

CONSTRUCT 24' WIDE TEMPORARY ISLAND BOARDING PLATFORMS AT 85' INTERVALS ALONG THE EXISTING TRACKS.

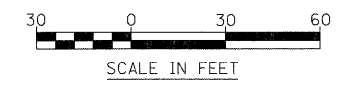
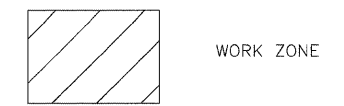
INSTALL TEMPORARY FES AND STORM SEWER AT STATION 4213+05 TO PROVIDE ROOM FOR TEMPORARY PEDESTRIAN WALKWAY.

CONSTRUCT PROPOSED EASTBOUND PLATFORM FROM STATION 4212+20 TO THE WEST END OF THE EXISTING STATION SIDEWALK.

CONSTRUCT ADA ACCESSIBLE TEMPORARY PEDESTRIAN WALKWAY AND CROSSWALK FROM EXISTING WESTBOUND PLATFORM TO NEWLY CONSTRUCTED PROPOSED EASTBOUND PLATFORM.

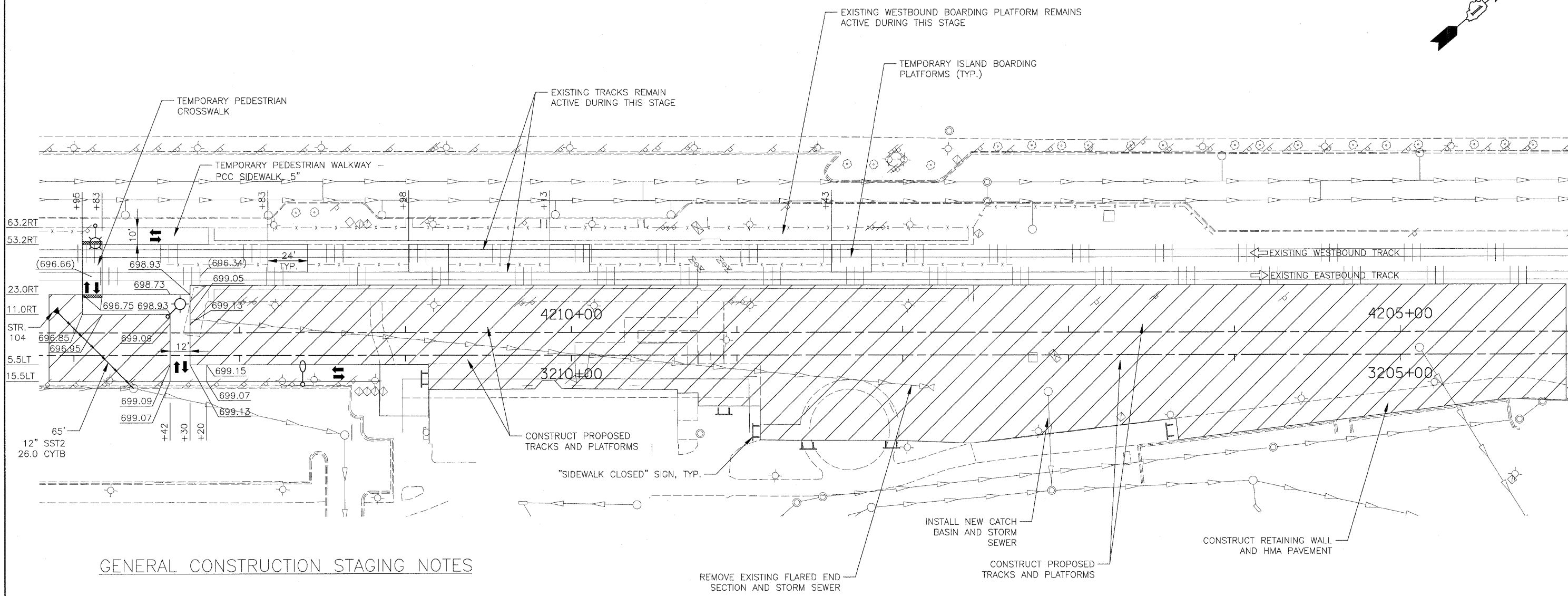
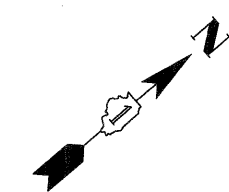
THE EXISTING BOARDING PLATFORMS WILL REMAIN ACTIVE FOR BOARDING THROUGHOUT THIS STAGE.

INSTALL ONE PROPOSED PLATFORM LIGHT, TWO TEMPORARY PEDESTRIAN WALKWAY LIGHTS ON WOOD POLES, ONE WOOD LIGHT POLE AND AERIAL CABLE AS SHOWN ON THE TEMPORARY ELECTRICAL PLAN.



FILE NAME =	USER NAME = JSpiekermann	DESIGNED MGS	REVISED -	<b>STATE OF ILLINOIS DEPARTMENT OF TRANSPORTATION</b>	<b>METRA STATION AND PLATFORMS PRE-STAGE</b>	F.A. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.	
	PLOT SCALE = 1" = 30'	DRAWN MGS	REVISED -			330	2010-135-I	COOK	101	48	
	PLOT DATE = 08/13/10	CHECKED JRS	REVISED -			<b>MS-8</b>		CONTRACT NO. 60N09		ILLINOIS FED. AID PROJECT	
		DATE 12/27/10	REVISED -			SCALE: 1"=30'	SHEET NO. 1 OF 4 SHEETS	STA. TO STA.			





**GENERAL CONSTRUCTION STAGING NOTES**

**STAGE 1**

INSTALL NEW HANDHOLES AND COMPLETE TEMPORARY ELECTRICAL WORK AS SHOWN ON THE TEMPORARY ELECTRICAL PLAN.

CLOSE EXISTING EASTBOUND PLATFORM TO PEDESTRIAN TRAFFIC AND INITIATE USE OF EXISTING WESTBOUND PLATFORM AND TEMPORARY ISLAND BOARDING PLATFORMS FOR ALL COMMUTER TRAFFIC.

REMOVE EXISTING EASTBOUND PLATFORM AND WALKWAYS AS SHOWN.

CONSTRUCT PROPOSED TRACK, PLATFORMS, RETAINING WALL AND LIGHTING FROM STATION 4204+20 TO 4212+20.

THE EXISTING WESTBOUND PLATFORM, THE TEMPORARY ISLAND BOARDING PLATFORMS, AND THE TEMPORARY PEDESTRIAN CROSSWALK CONSTRUCTED DURING THE PRE-STAGE WILL BE USED FOR ALL PEDESTRIAN TRAFFIC.

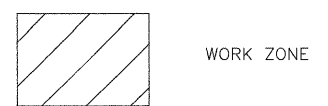
CONSTRUCTION DEBRIS AND/OR EQUIPMENT SHALL NOT BE PRESENT WITHIN THE ACTIVE PLATFORM AREAS DURING THIS STAGE.

REMOVE EXISTING FLARED END SECTION AND STORM SEWER

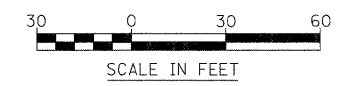
INSTALL NEW CATCH BASIN AND STORM SEWER

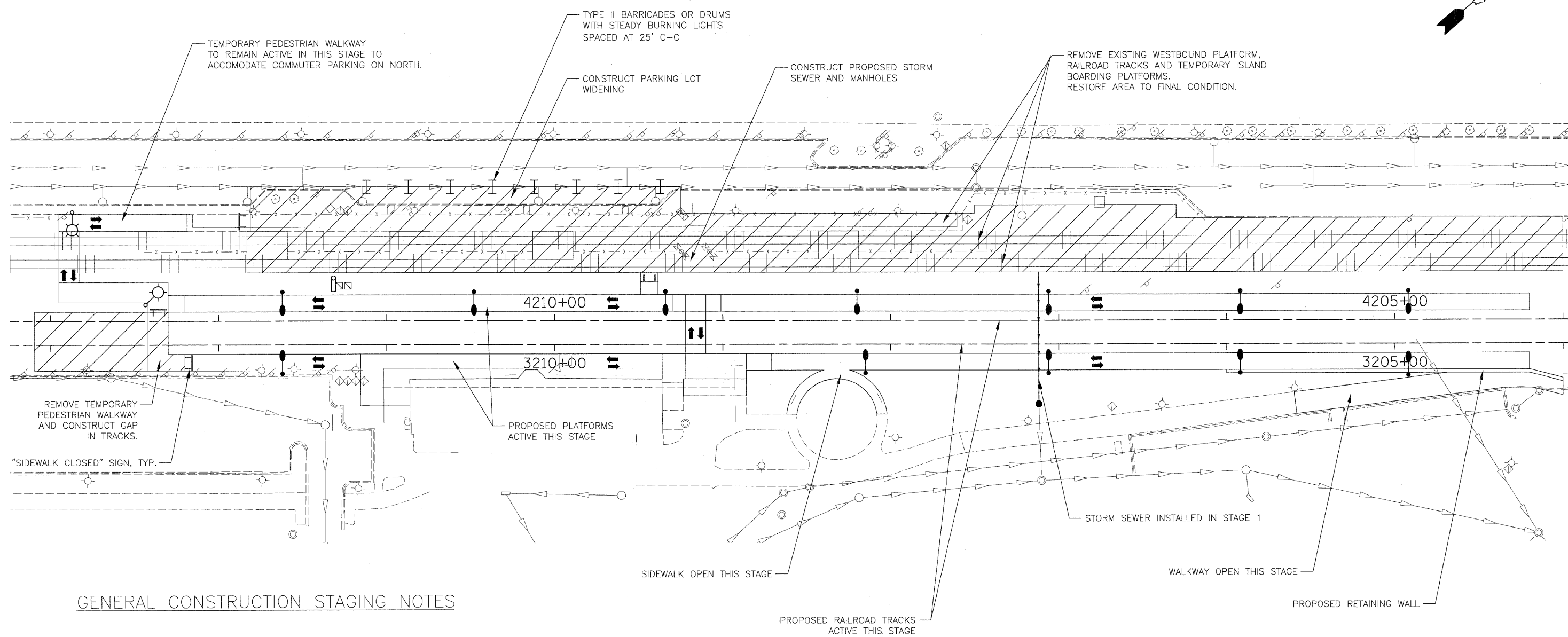
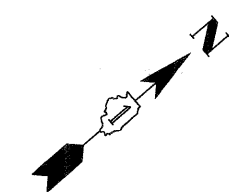
CONSTRUCT PROPOSED TRACKS AND PLATFORMS

CONSTRUCT RETAINING WALL AND HMA PAVEMENT



STRUCTURE NO.	STATION	OFFSET	TYPE	RIM ELEVATION	INVERT ELEVATION
104	4213+08.7	11.1' RT	FES, 12"	N/A	694.0





**GENERAL CONSTRUCTION STAGING NOTES**

**STAGE 2**

JUST PRIOR TO STAGE 2, REMOVE TEMPORARY PEDESTRIAN WALKWAY AS SHOWN AND CONSTRUCT GAP IN PROPOSED TRACK.

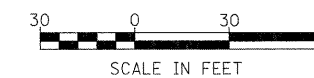
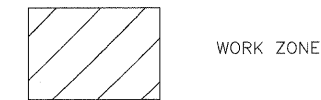
ACTIVATE PROPOSED TRACKS AND PLATFORMS TO TRAFFIC. THE TEMPORARY PEDESTRIAN WALKWAY WILL REMAIN ACTIVE DURING THIS STAGE.

INSTALL PROPOSED STORM SEWER, MANHOLES AND FLARED END SECTION.

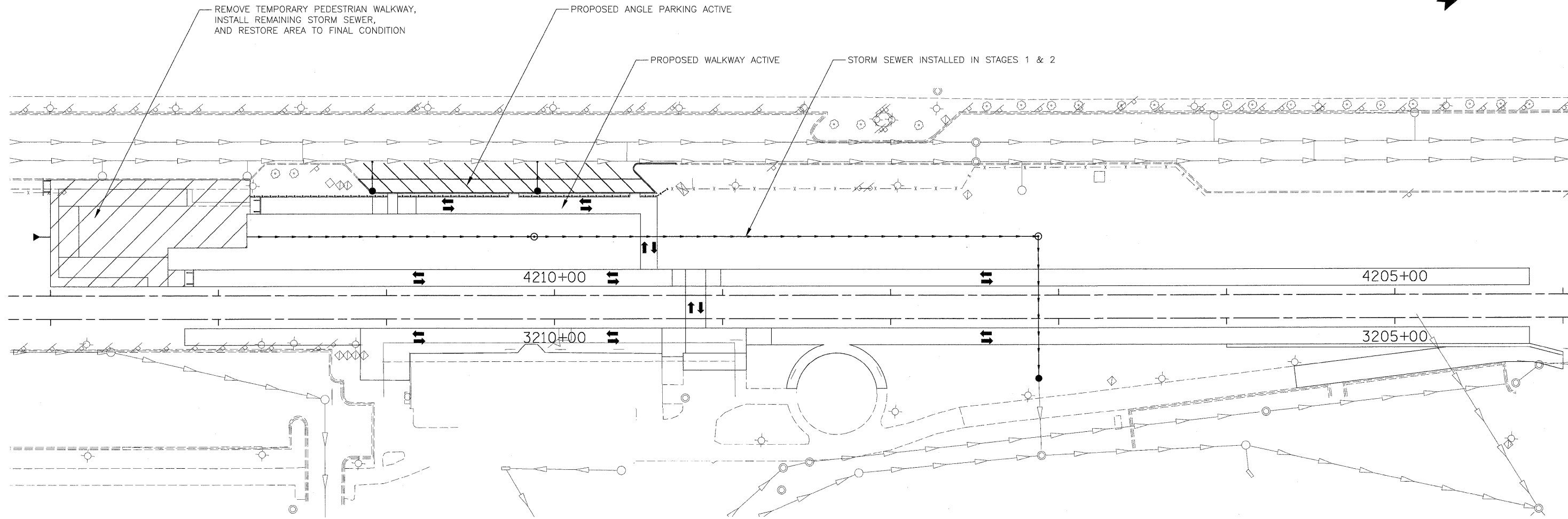
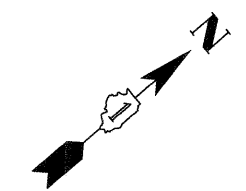
REMOVE EXISTING WESTBOUND PLATFORM, EXISTING TRACKS, AND TEMPORARY ISLAND BOARDING PLATFORMS.

CONSTRUCT PARKING LOT WIDENING, PROPOSED WALKWAYS AND SITE RESTORATION.

CONSTRUCTION DEBRIS AND/OR EQUIPMENT SHALL NOT BE PRESENT WITHIN THE ACTIVE PLATFORM AREAS DURING THIS STAGE.



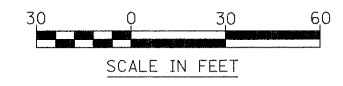
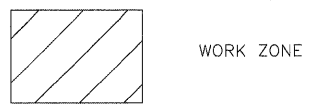
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	PLOT SCALE = 1" = 30'	CHECKED JRS	REVISED -		SCALE: 1"=30'	SHEET NO. 3 OF 4 SHEETS	STA. TO STA.	<b>MS-10</b>		CONTRACT NO. 60N09			
	PLOT DATE = 08/13/10	DATE 12/27/10	REVISED -		ILLINOIS FED. AID PROJECT								



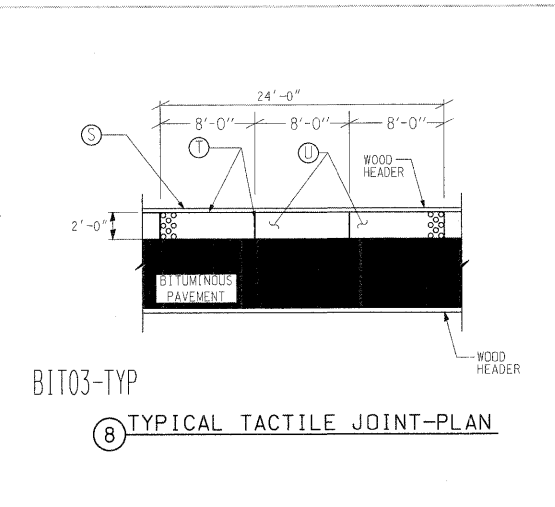
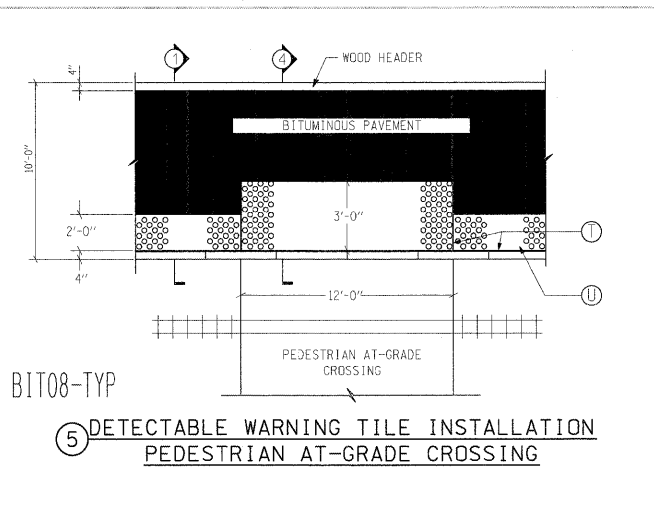
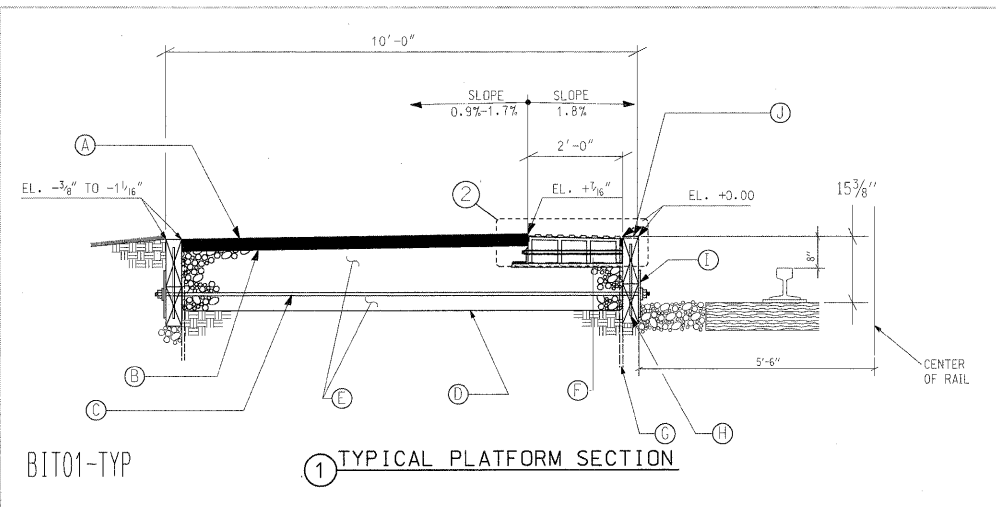
GENERAL CONSTRUCTION STAGING NOTES

STAGE 3

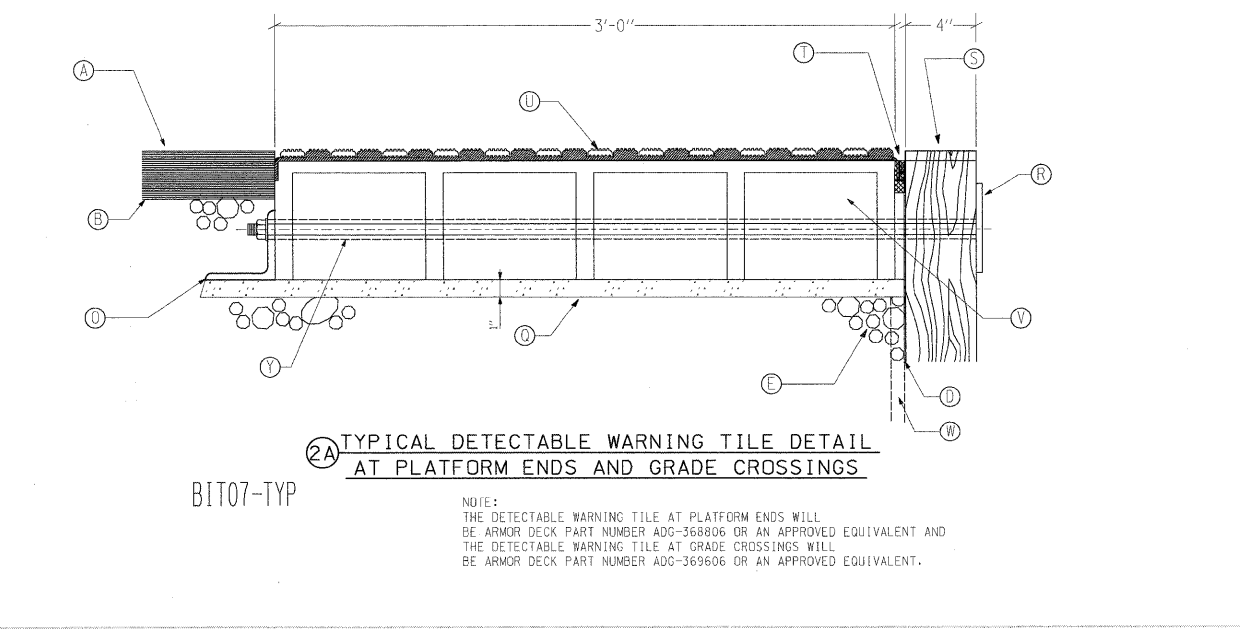
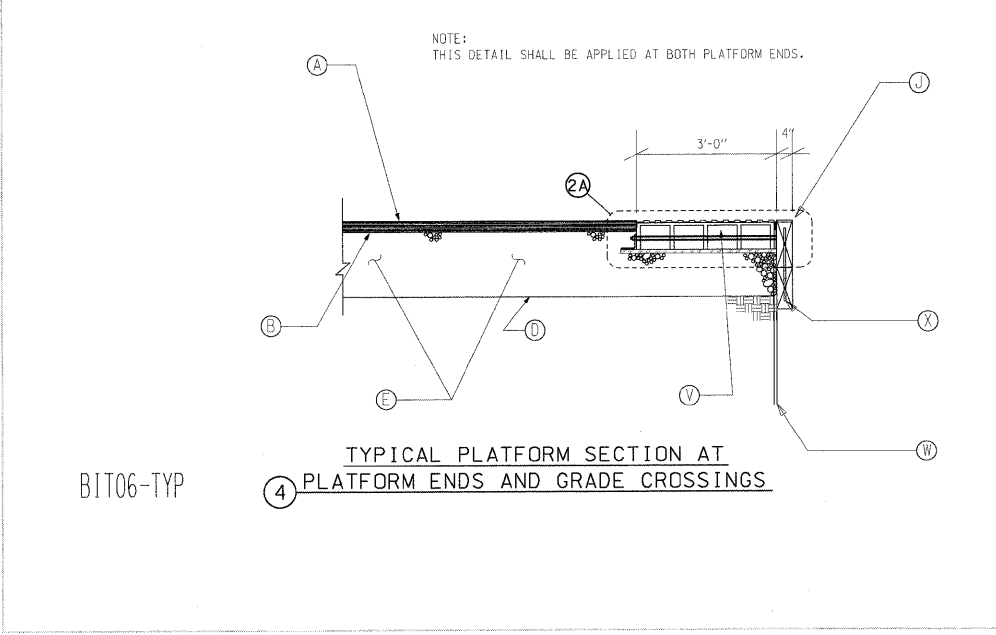
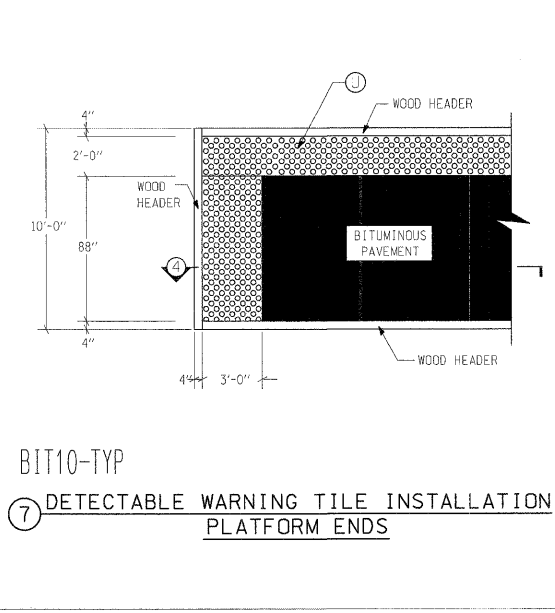
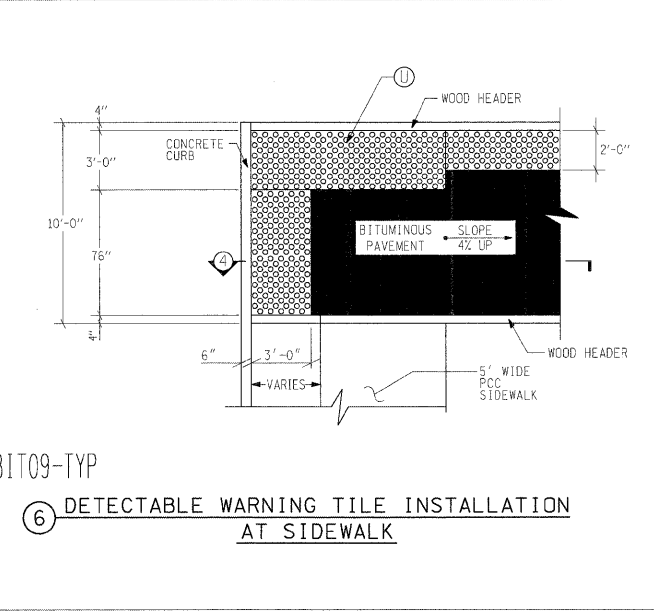
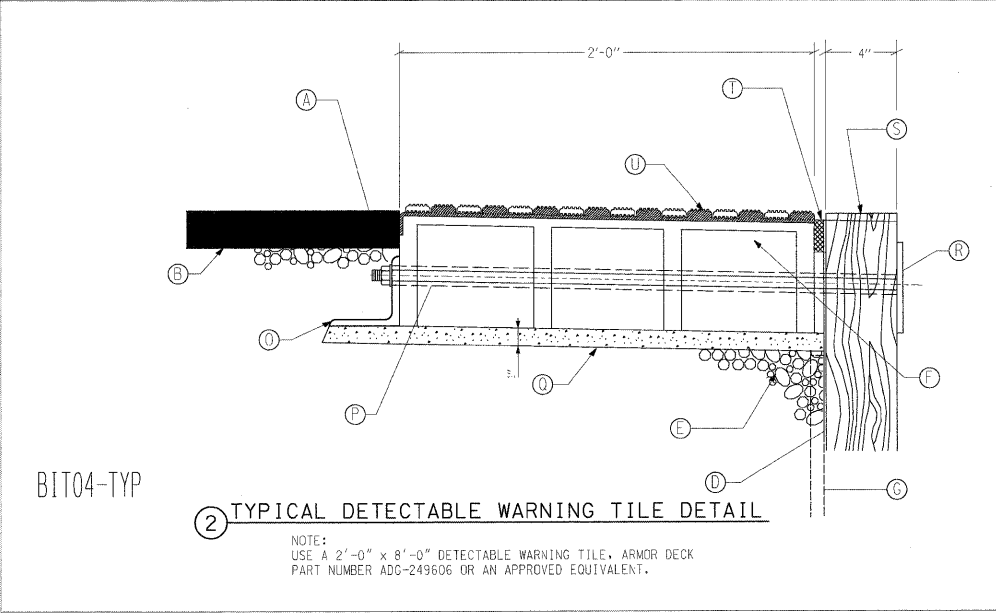
REMOVE TEMPORARY PEDESTRIAN WALKWAY AND RESTORE THIS AREA TO THE FINAL CONDITION.  
 CONSTRUCTION DEBRIS AND/OR EQUIPMENT SHALL NOT BE PRESENT WITHIN THE ACTIVE PLATFORM AREAS DURING THIS STAGE.



FILE NAME =	USER NAME = JSpiekermann	DESIGNED MGS	REVISED -	<b>STATE OF ILLINOIS DEPARTMENT OF TRANSPORTATION</b>	<b>METRA STATION AND PLATFORMS STAGE 3</b>		F.A. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
	PLOT SCALE = 1" = 30'	DRAWN MGS	REVISED -		330	2010-135-1	COOK	101	51		
	PLOT DATE = 08/13/10	CHECKED JRS	REVISED -		SCALE: 1"=30' SHEET NO. 4 OF 4 SHEETS STA. TO STA.		<b>MS-11</b>		CONTRACT NO. 60N09		
		DATE 12/27/10	REVISED -		ILLINOIS FED. AID PROJECT						



- LEGEND:
- (A) 3" BITUMINOUS PAVEMENT 2 COURSE CONSTRUCTION (1/2" SURFACE COURSE AND 1/2" BINDER COURSE)
  - (B) BITUMINOUS PRIME COAT OVER GRANULAR BASE PER IDOT SPECS
  - (C) 3/4" x 10'-6" GALVANIZED TIE ROD WITH 12" OF THREAD AT EACH END @ 4'-0" C-C
  - (D) GEOTECHNICAL FILTER FABRIC 115 MILS WRAPPED TO TOP OF TIMBERS
  - (E) GRANULAR BASE, TYPE B, GRADATION CA 6 COMPACTED IN 6" LIFTS TO 95% PROCTOR DENSITY. USE 12 1/2" DEPTH FOR ALL PLATFORMS.
  - (F) 2' W x 8' L x 6" D STRUCTURAL REINFORCED POLYMER COMPOSITE DECK PANEL WITH INTEGRAL DETECTABLE WARNING TILE.
  - (G) 3/4" x 4'-0" STEEL FORM STAKES @ 4'-0" C-C
  - (H) 1/2" x 16" GALVANIZED STEEL DOWEL @ 4'-0" C-C
  - (I) 6" x 12" x 1/2" STEEL WASHER PLATE WITH 7/8" HOLE AND 2 NAIL HOLES IN OPPOSITE CORNERS. GALVANIZE NUT, WASHER AND PLATE TO PREVENT RUSTING.
  - (J) DOUGLAS FIR WOOD HEADERS, CREOSOTE TREATED PER IDOT STANDARD SPECIFICATIONS, ART. 1007.12. 4" x 12" x 16'-0" - TOP. 4" x 10" x 16'-0" - BOTTOM
  - (K) 6" x 6" x 1/2" STEEL WASHER PLATE WITH 7/8" HOLE. GALVANIZE NUT, WASHER AND PLATE TO PREVENT RUSTING.
  - (L) 4" x 12" x 4'-0" CREOSOTE TREATED DEADMAN TIMBER TO BE DRIVEN DIRECTLY INTO THE SOIL @ 4'-0" C-C. TOP OF DEADMAN TIMBER SHOULD BE AT LEAST 8" BELOW THE FINISHED PLATFORM SURFACE. DEADMAN TIMBER CONSTRUCTION AS SHOWN SHALL BE USED ALONG ENTIRE LENGTH OF BUILDING OR STRUCTURE.
  - (M) 3/4" x 7'-0" GALVANIZED TIE RODS WITH 12" OF THREAD AT EACH END PLACED @ 4'-0" C-C, SAME AS STANDARD INSTALLATION.
  - (N) PLACE TIE ROD 6" MINIMUM FROM END OF TIMBER.
  - (O) 5" x 5" x 3/8" GALVANIZED STL. ANGLE, 6" LONG
  - (P) 5/8" x 30 5/8" NICKEL PLATED CONNECTING ROD WELDED TO 4" x 3" x 3/8" GALVANIZED PLATE. TREAD INSIDE END 6".
  - (Q) FA 2 CRUSHED LIMESTONE SCREENING
  - (R) 4" x 3" x 3/8" GALVANIZED PLATE
  - (S) CREOSOTE TREATED WOOD HEADER. NOTCH CURB EVERY 48" TO A DEPTH EQUAL TO THE BOTTOM OF THE TRUNCATED DOMES FOR DRAINAGE (FRONT HEADER ONLY).
  - (T) 1/4" x 1 1/2" EMSEAL EXPANDABLE AST HI ACRYLIC SEALANT
  - (U) DETECTABLE WARNING TILE
  - (V) 3' W x 6" D STRUCTURAL REINFORCED POLYMER COMPOSITE DECK PANELS WITH INTEGRAL DETECTABLE WARNING TILE, 8' L AT GRADE CROSSING AND 88" L AT PLATFORM ENDS.
  - (W) 3/4" x 4'-0" GALVANIZED STAKES PLACED AT 12" FROM ENDS AND AT CENTER OF ASSEMBLY
  - (X) 1/2" x 16" GALVANIZED STEEL DOWELS PLACED AT 12" FROM ENDS AND AT CENTER OF ASSEMBLY
  - (Y) 5/8" x 42 5/8" NICKEL PLATED CONNECTING ROD WELDED TO 4" x 3" x 3/8" GALVANIZED PLATE. TREAD INSIDE END 6".



ALL DRAWINGS NOT TO SCALE

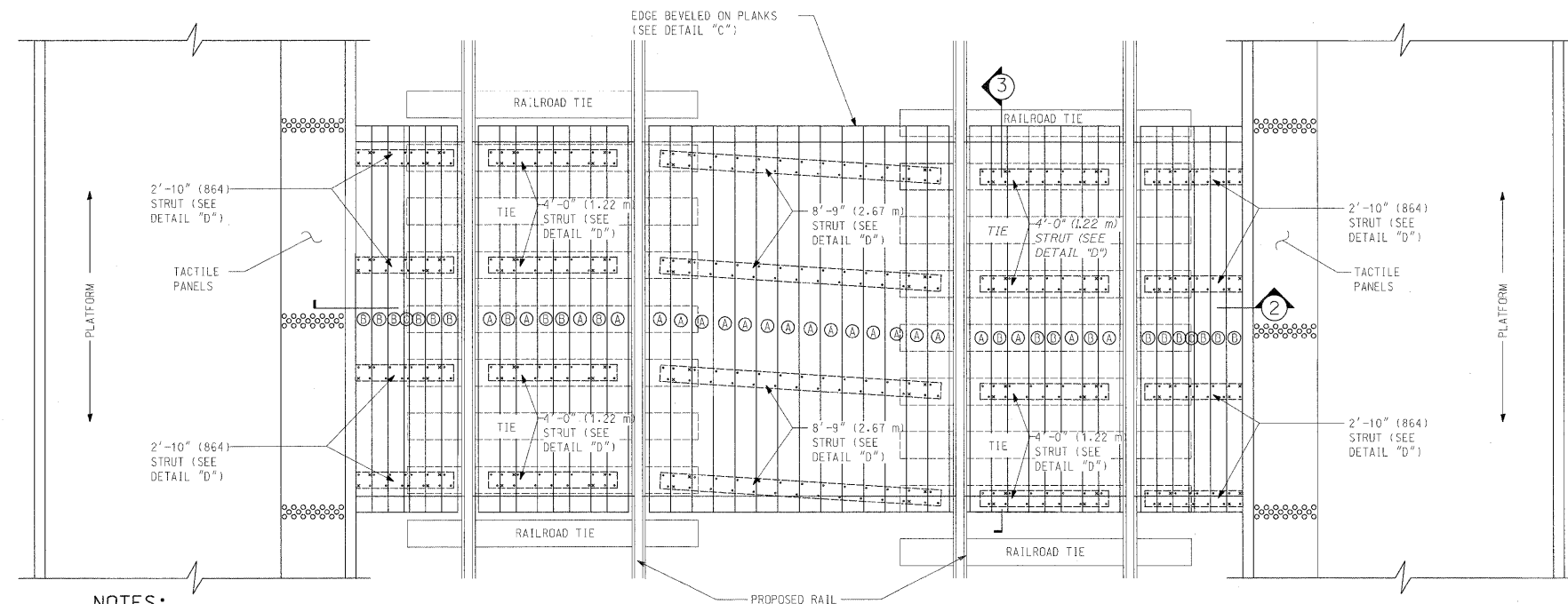
FILE NAME =	USER NAME = JSpiekermann	DESIGNED MGS	REVISED -	<b>STATE OF ILLINOIS DEPARTMENT OF TRANSPORTATION</b>	<b>METRA STATION AND PLATFORMS DETAILS</b>			F.A. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.	
	PLOT SCALE = NONE	DRAWN MGS	REVISED -		SCALE: NONE	SHEET NO. 1 OF 5 SHEETS	STA.	TO STA.	330	2010-135-I	COOK	101	52
	PLOT DATE = 08/13/10	CHECKED JRS	REVISED -						<b>MS-12</b>		CONTRACT NO. 60N09		
		DATE 12/27/10	REVISED -						ILLINOIS FED. AID PROJECT				



PLANK ① DIMENSIONS (NOMINALLY 3" (75) x 8" (200)):  
2 1/2" x 7 1/2" x 12'-0"  
(63 x 190 x 3.66 m)

PLANK ② DIMENSIONS (NOMINALLY 3" (75) x 6" (150)):  
2 1/2" x 5 1/2" x 12'-0"  
(63 x 140 x 3.66 m)

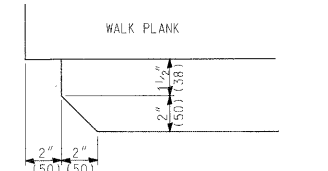
PLANK ③ DIMENSIONS (NOMINALLY 3" (75) x 2" (50)):  
2 1/2" x 1 1/2" x 12'-0"  
(63 x 38 x 3.66 m)



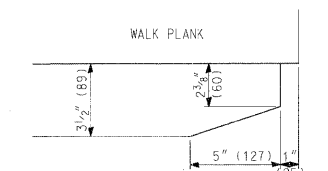
**NOTES:**

1. 'x' DENOTES 5/8" x 8" (16 x 200) BOAT SPIKE (CONNECTS STRUTS TO TIES).
2. '•' DENOTES 60D NAIL (CONNECTS PLANKS TO STRUTS).
3. PLANKS AND STRUTS BETWEEN TRACKS BASED ON 14'-0" (4.27 m) TRACK CENTERS.

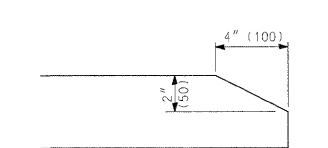
① TYPICAL PEDESTRIAN CROSSWALK - 2 TRACK INSTALLATION  
SCALE: 1/2" = 1'-0" (1:24)  
(CELL-2XW01)



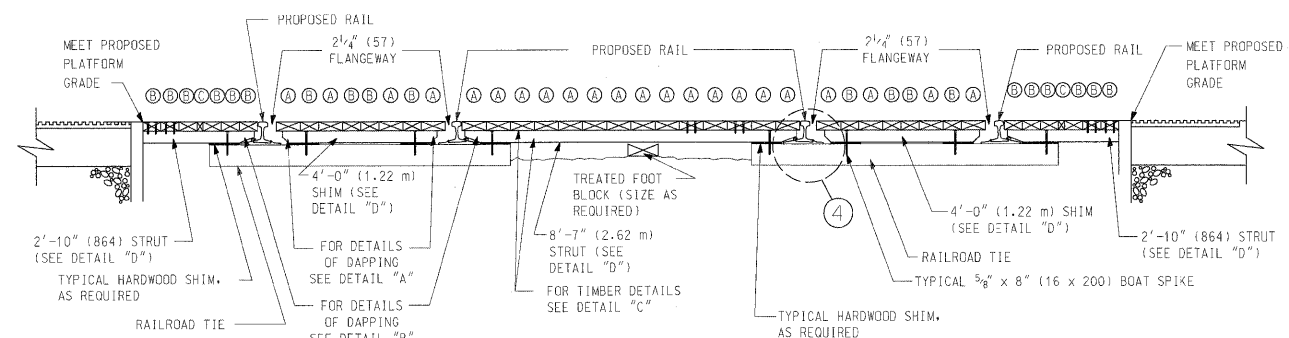
① STRUT DAPPING DETAIL  
FOR USE ON GAGE SIDE OF RAIL  
N.T.S.



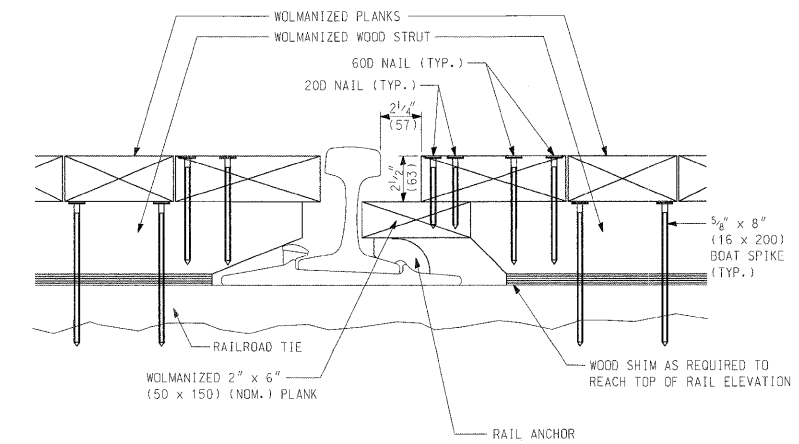
② TYPICAL STRUT DAPPING DETAIL (132 RE)  
FOR USE ON FIELD SIDE OF RAIL  
N.T.S.



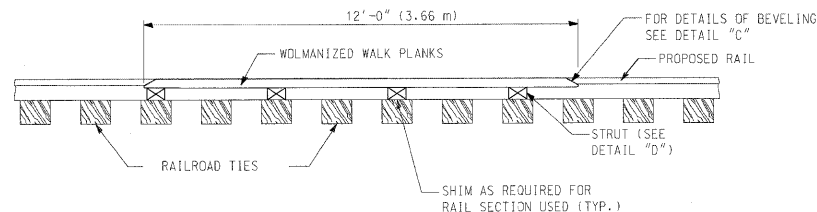
③ WALK PLANK BEVELING DETAIL  
N.T.S.  
(CELL-2XW05)



② CROSSWALK SECTION  
SCALE: 1/2" = 1'-0" (1:24)  
(CELL-2XW02)



④ CROSSWALK/RAIL INTERFACE SECTION  
SCALE: 3/8" = 1'-0" (1:5)  
(CELL-2XW06)

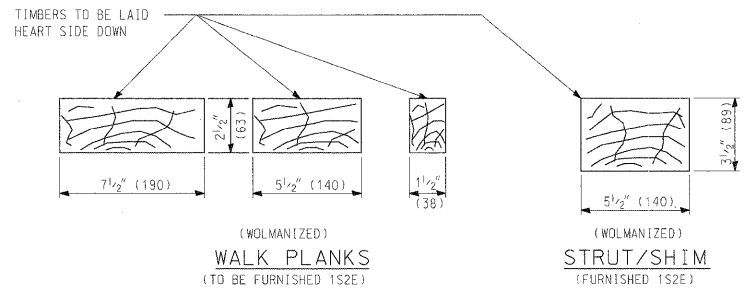


③ CROSSWALK SECTION  
SCALE: 1/2" = 1'-0" (1:24)  
(CELL-2XW03)

**NOTES:**

1. ALL WALK PLANKS, STRUTS, AND SHIM BLOCKS SHALL BE WOLMANIZED DOUGLAS FIR 1S2E.
2. HARDWOOD SHIMS OF APPROPRIATE THICKNESS TO BE USED TO ADJUST FOR HEIGHT OF RAIL SECTION USED.
3. ENTIRE WALKING SURFACE OF CROSSWALK IS TO BE TREATED WITH A NON-SKID SURFACE MATERIAL SUCH AS SIKADUR-LOWDE, OR APPROVED EQUAL. OVERLAIN WITH ALUMINUM OXIDE (NON-SKID AGGREGATE) GRIPTEX, OR APPROVED EQUAL.
4. ALL DIMENSIONS ARE IN INCHES (MILLIMETERS) UNLESS OTHERWISE SHOWN.

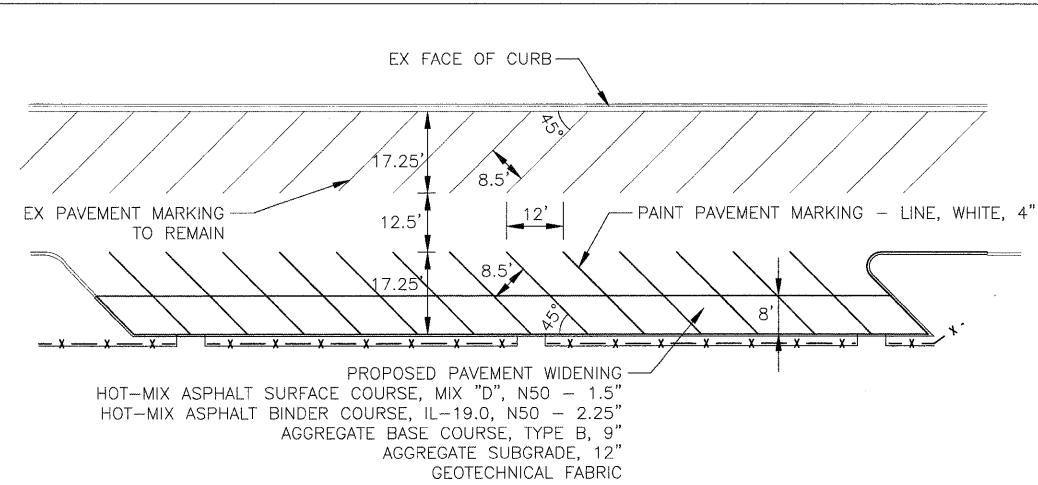
(CELL-2XW04)



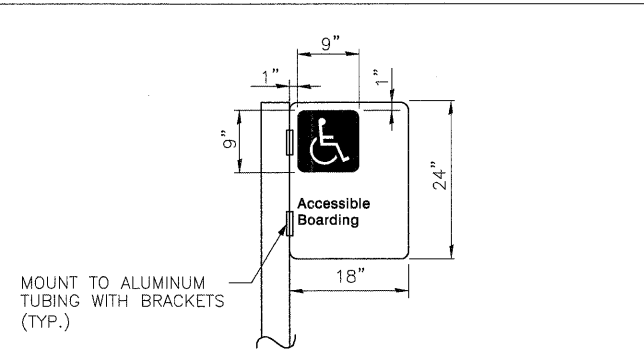
④ CROSSWALK TIMBER DETAIL  
N.T.S.  
(CELL-2XW07)

**CROSS WALK DETAILS - 02** DECEMBER 2003

FILE NAME =	USER NAME = JSpiekermann	DESIGNED MGS	REVISED -	<b>STATE OF ILLINOIS DEPARTMENT OF TRANSPORTATION</b>	<b>METRA STATION AND PLATFORMS DETAILS</b>		F.A. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.	
	PLOT SCALE = NONE	CHECKED JRS	REVISED -				330	2010-135-I	COOK	101	54	
	PLOT DATE = 08/13/10	DATE 12/27/10	REVISED -				SCALE: NONE SHEET NO. 3 OF 5 SHEETS STA. TO STA.		MS-14		CONTRACT NO. 60N09	
							ILLINOIS FED. AID PROJECT					



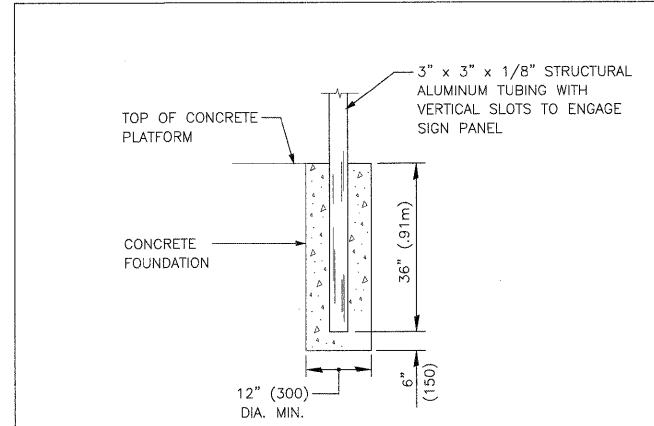
PROPOSED PAVEMENT MARKING  
(STA 4211+16 TO STA 4209+48)  
14 STALLS @ 12' EACH = 168'



TYPICAL ACCESSIBLE BOARDING SIGN  
N.T.S.

NOTE:

INSTALL ABOVE SIGN PANEL AT THE FOLLOWING LOCATIONS:  
STA. 4206+20 AT EAST PLATFORM AND STA. 4210+20 AT WEST PLATFORM - MOUNTED TO NEW ALUMINUM TUBING  
MOUNTING HEIGHT SHALL BE 8'-0" FROM TOP OF PLATFORM TO BOTTOM OF SIGN PANEL.



SIGN POST FOUNDATION  
N.T.S.



PROPOSED METRA SIGN  
WEST PLATFORM  
N.T.S.

NOTE:

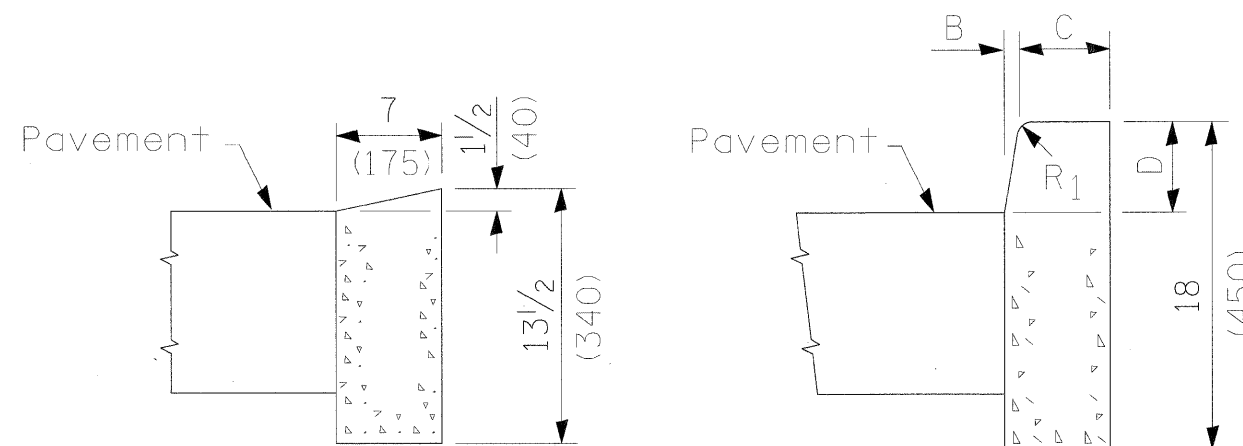
INSTALL ABOVE SIGN PANEL IN ACCORDANCE WITH FOUNDATION DETAIL AT THE FOLLOWING LOCATIONS SHOWN ON THE PROPOSED PLAN; STA. 4212+25, STA. 4210+75, STA. 4209+25, STA 4207+75, STA. 4206+25, STA. AND 4204+75. MOUNTING HEIGHT SHALL BE 6'-0" FROM TOP OF PLATFORM TO TOP OF SIGN PANEL.



PROPOSED METRA SIGN  
EAST PLATFORM  
N.T.S.

NOTE:

INSTALL ABOVE SIGN PANEL IN ACCORDANCE WITH FOUNDATION DETAIL AT THE FOLLOWING LOCATIONS SHOWN ON THE PROPOSED PLAN; STA. 4212+25, STA. 4210+75, STA. 4209+25, STA 4207+75, STA. 4206+25, STA. AND 4204+75. MOUNTING HEIGHT SHALL BE 6'-0" FROM TOP OF PLATFORM TO TOP OF SIGN PANEL.



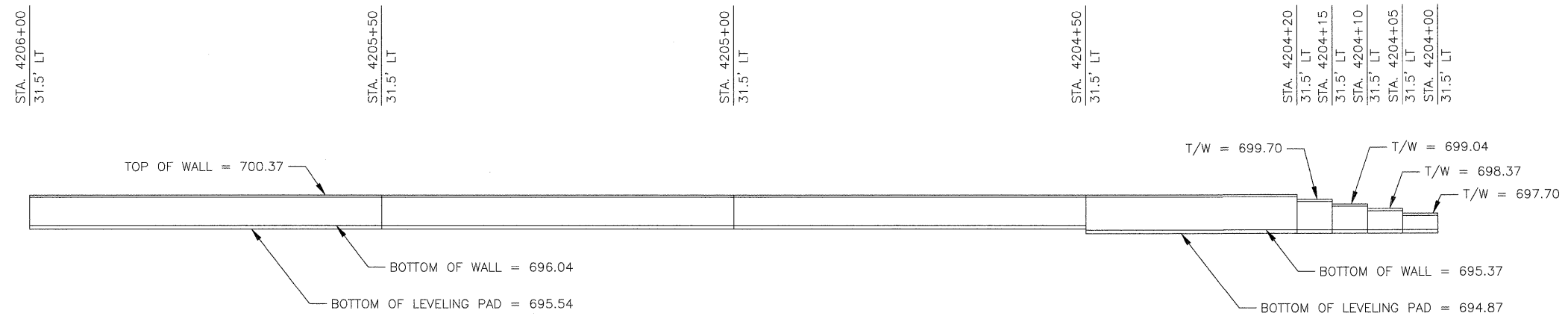
DEPRESSED CURB

BARRIER CURB

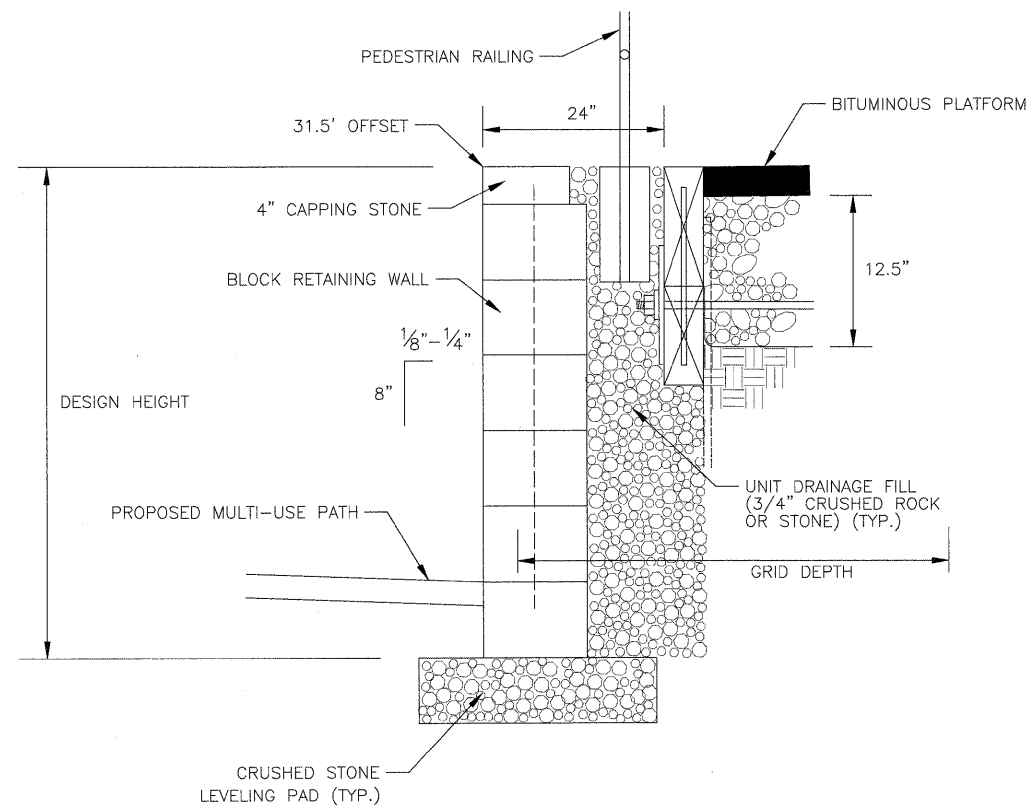
ADJACENT TO FLEXIBLE PAVEMENT

FILE NAME =	USER NAME = JSplekermann	DESIGNED MGS	REVISED -	STATE OF ILLINOIS DEPARTMENT OF TRANSPORTATION	METRA STATION AND PLATFORMS DETAILS			F.A. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.	
		DRAWN MGS	REVISED -		SCALE: NONE	SHEET NO. 4 OF 5 SHEETS	STA.	TO STA.	330	2010-135-I	COOK	101	55
		CHECKED JRS	REVISED -						MS-15 CONTRACT NO. 60N09				
		DATE 12/27/10	REVISED -						ILLINOIS FED. AID PROJECT				

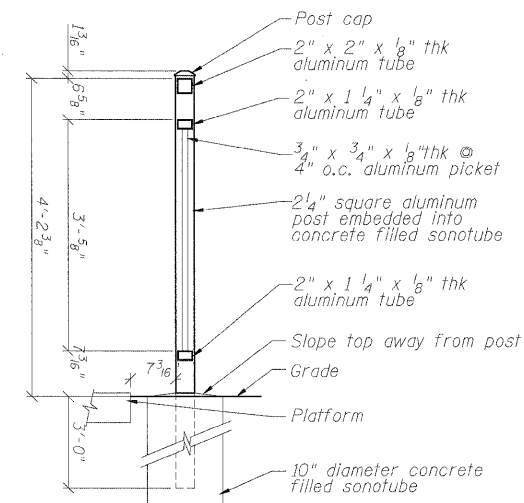
# PLATFORM – SEGMENTAL BLOCK WALL



PLATFORM SEGMENTAL BLOCK WALL – ELEVATION



PLATFORM SEGMENTAL BLOCK WALL – TYPICAL SECTION








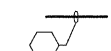

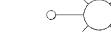
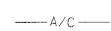



TYPICAL PEDESTRIAN RAILING DETAIL NEXT TO PLATFORM

FILE NAME =	USER NAME = JSpiekermann	DESIGNED MGS	REVISED -	<b>STATE OF ILLINOIS DEPARTMENT OF TRANSPORTATION</b>	<b>METRA STATION AND PLATFORMS DETAILS</b>		F.A. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
	PLOT SCALE = NONE	DRAWN MGS	REVISED -				330	2010-135-1	COOK	101	56
	PLOT DATE = 08/13/10	CHECKED JRS	REVISED -		SCALE: NONE		SHEET NO. 5 OF 5 SHEETS	STA.	TO STA.	CONTRACT NO. 60N09	
		DATE 12/27/10	REVISED -		ILLINOIS FED. AID PROJECT						



**LEGEND**

-  EXISTING LIGHTING UNIT TO REMAIN
-  EXISTING LIGHTING UNIT AND CONCRETE FOUNDATION TO BE REMOVED
-  PROPOSED 400-WATT METAL HALIDE LUMINAIRE, TYPE 3 DISTRIBUTION, 30' M.H. ON DECORATIVE LIGHT POLE.
-  PROPOSED ELECTRICAL HANDHOLE
-  EXISTING ELECTRICAL HANDHOLE TO REMAIN
-  EXISTING ELECTRICAL HANDHOLE TO BE REMOVED
-  EXISTING ELECTRICAL HANDHOLE TO BE ADJUSTED
-  PROPOSED CONDUIT/WIRING, SIZES AND NUMBERS AS NOTED.
-  VIS SIGN
-  LIGHT POLE, WOOD, 40 FOOT, CLASS 3 WITH RELOCATED 400W M.H. LUMINAIRE AND 2 FOOT ARM
-  AERIAL CABLE, 3-1/C NO.8 WITH MESSENGER WIRE
-  LIGHT POLE, WOOD, 20 FOOT, CLASS 5

**ABBREVIATIONS**

- A AMPERES
- AWG AMERICAN WIRE GAUGE
- BLDG BUILDING
- C CONDUIT
- CKT CIRCUIT
- DIA DIAMETER
- DISC DISCONNECT
- FDN FOUNDATION
- FT, (') FEET
- GND, GRD GROUND
- JB JUNCTION BOX
- KVA KILOVOLT AMPERE
- METRA METROPOLITAN RAIL
- MIN MINIMUM
- MH METAL HALIDE
- NTS NOT TO SCALE
- NO., # NUMBER
- O.C. ON CENTER
- P POLE
- PH PHASE
- PVC POLYVINYL CHLORIDE
- RGS RIGID GALVANIZED STEEL
- RR RAIL ROAD
- SQ SQUARE
- STA. STATION
- THK THICK
- TYP TYPICAL
- UNO UNLESS NOTED OTHERWISE
- V VOLT
- VIS VISUAL INFORMATION SYSTEM
- W WATT
- XFMR TRANSFORMER

**ELECTRICAL GENERAL NOTES**

1. ALL PROPOSED DUCT BANK, CONDUIT, JUNCTION BOXES AND APPURTENANCES ARE ILLUSTRATED DIAGRAMMATICALLY. THE ACTUAL LOCATIONS IN THE FIELD MUST BE APPROVED BY THE ENGINEER.
2. THE CONTRACTOR MUST COORDINATE ALL WORK AND MATERIALS WITH SPECIAL ATTENTION PAID TO ALL OTHER CONSTRUCTION CONTRACTS. THIS WORK SHALL BE INCLUDED IN THE COST OF THIS CONTRACT. SEPARATE PAYMENT WILL NOT BE MADE.
3. THE ELECTRIC CABLE PHASE AND NEUTRAL CONDUCTORS MUST BE RUN CONTINUOUS WITHOUT ANY UNDERGROUND SPLICES UNLESS NOTED OTHERWISE ON THE DRAWINGS. SPLICING OF ELECTRIC CABLE PHASE AND NEUTRAL CONDUCTORS WILL BE PERMITTED ONLY IN THE BASE OF THE PROPOSED LIGHT POLES AND HANDHOLES WHERE SHOWN, UNLESS NOTED OTHERWISE. THIS WORK SHALL BE INCLUDED IN THE ELECTRIC CABLE PAY ITEM. SEPARATE PAYMENT WILL NOT BE MADE.
4. CONTRACTOR SHALL CONTACT ALL UTILITY COMPANIES FOR LOCATION OF THEIR UNDERGROUND EQUIPMENT BEFORE STARTING DIGGING OPERATIONS.
5. THE CONTRACTOR MUST IDENTIFY AND TAG EACH ELECTRIC CABLE ASSEMBLY IN ALL HANDHOLES, MANHOLES, CONTROLLER CABINETS AND LIGHT POLE BASES.
6. ALL ELECTRICAL WORK SHALL BE IN ACCORDANCE WITH THE NATIONAL ELECTRICAL CODE (NEC 2009) AND ALL LOCAL CODES AND AMENDMENTS.
7. THE CONTRACTOR SHALL REFER TO THE CIVIL DRAWINGS FOR LOCATIONS OF EXISTING EQUIPMENT AND UTILITIES AND FOR LOCATIONS OF PROPOSED OR RELOCATED EQUIPMENT FOUNDATIONS.

**CONDUIT & WIRE SCHEDULE**

TAG	CONDUIT SIZE	WIRE QUANTITY AND SIZE	REMARKS
①	1 1/2 "	5*8 & 1*10 GRD	NOTE 2
②	1 1/2 "	3*8 & 1*10 GRD	NOTE 2
③	1"	2*8 & 1*10 GRD	NOTE 2
④	1 1/2 "	8*8 & 1*10 GRD	NOTE 2
⑤	3/4 "	NOTE 1	NOTE 2
⑥	1"	NOTE 1	NOTE 2
⑦	1 1/2 "	NOTE 1	NOTE 2
⑧	1 1/4"	4*6 & 1*6 GRD	NOTE 2

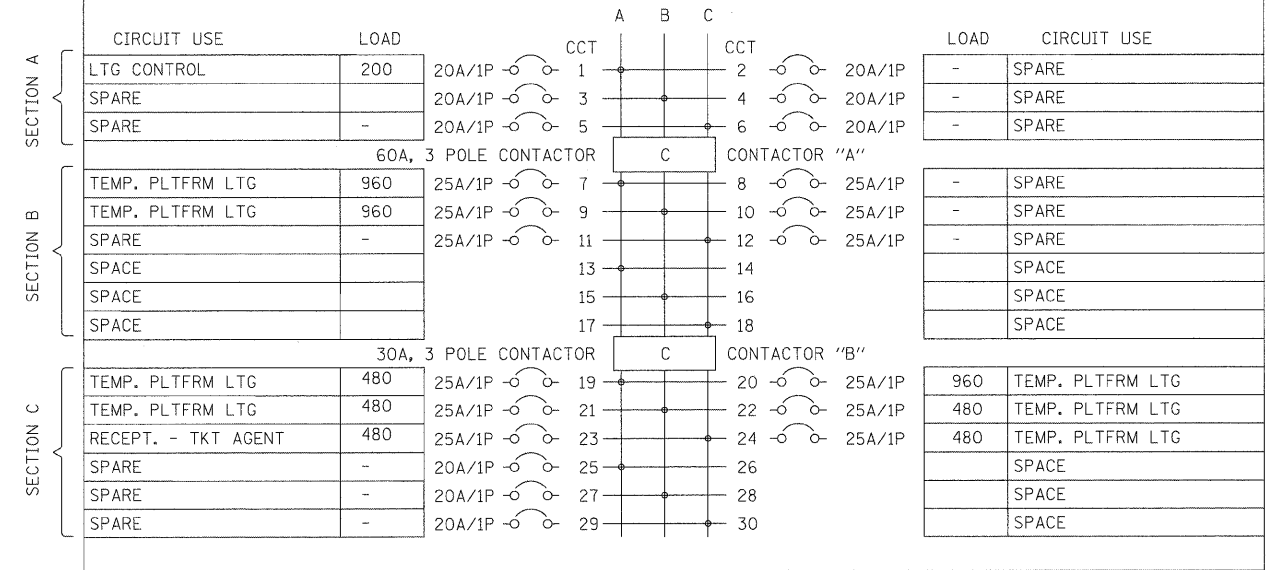
**NOTES:**

1. PULL STRING IN CONDUIT FOR FUTURE WIRE.
2. REFER TO ELECTRICAL PLANS MSE-5, MSE-6 AND MSE-7 FOR CONDUIT ROUTING.

FILE NAME =	USER NAME = JSpiskermann	DESIGNED MB	REVISED -	<b>STATE OF ILLINOIS DEPARTMENT OF TRANSPORTATION</b>	<b>METRA STATION AND PLATFORMS ELECTRICAL LEGEND, ABBREVIATIONS AND GENERAL NOTES</b>			F.A. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.	
		DRAWN MB	REVISED -		SCALE: NONE	SHEET NO. 1 OF 1 SHEETS	STA.	TO STA.	330	2010-135-I	COOK	101	57
	PLOT SCALE = NONE	CHECKED MCP	REVISED -					<b>MSE-1</b>		CONTRACT NO. 60N09			
	PLOT DATE = 08/13/10	DATE 12/27/10	REVISED -		ILLINOIS FED. AID PROJECT								

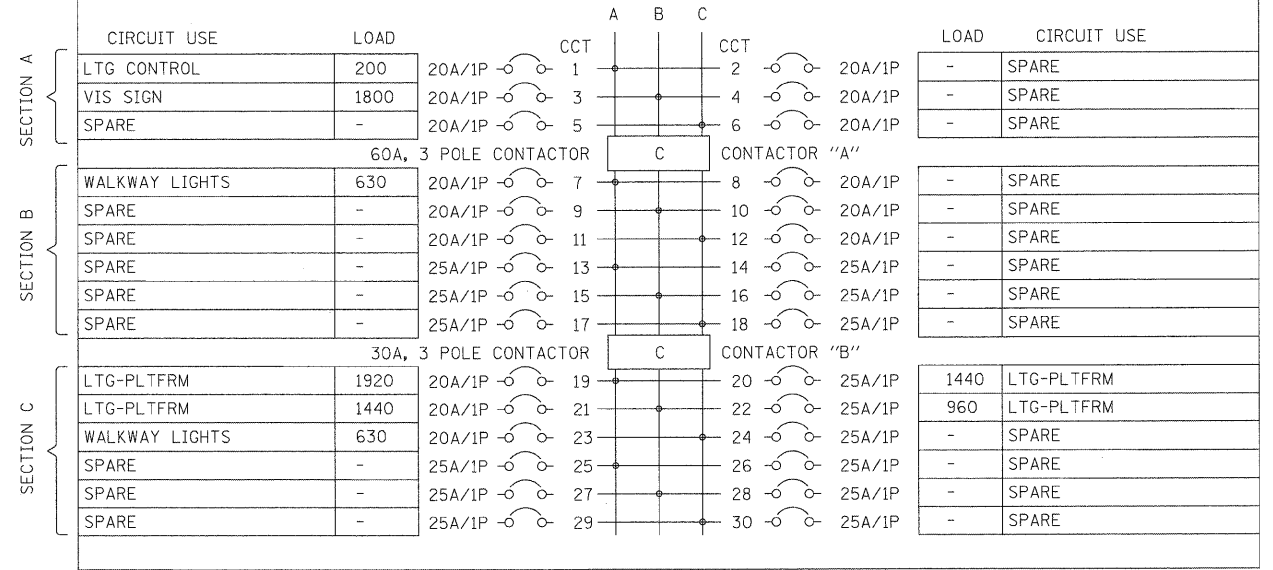
EXISTING PANELBOARD TPL

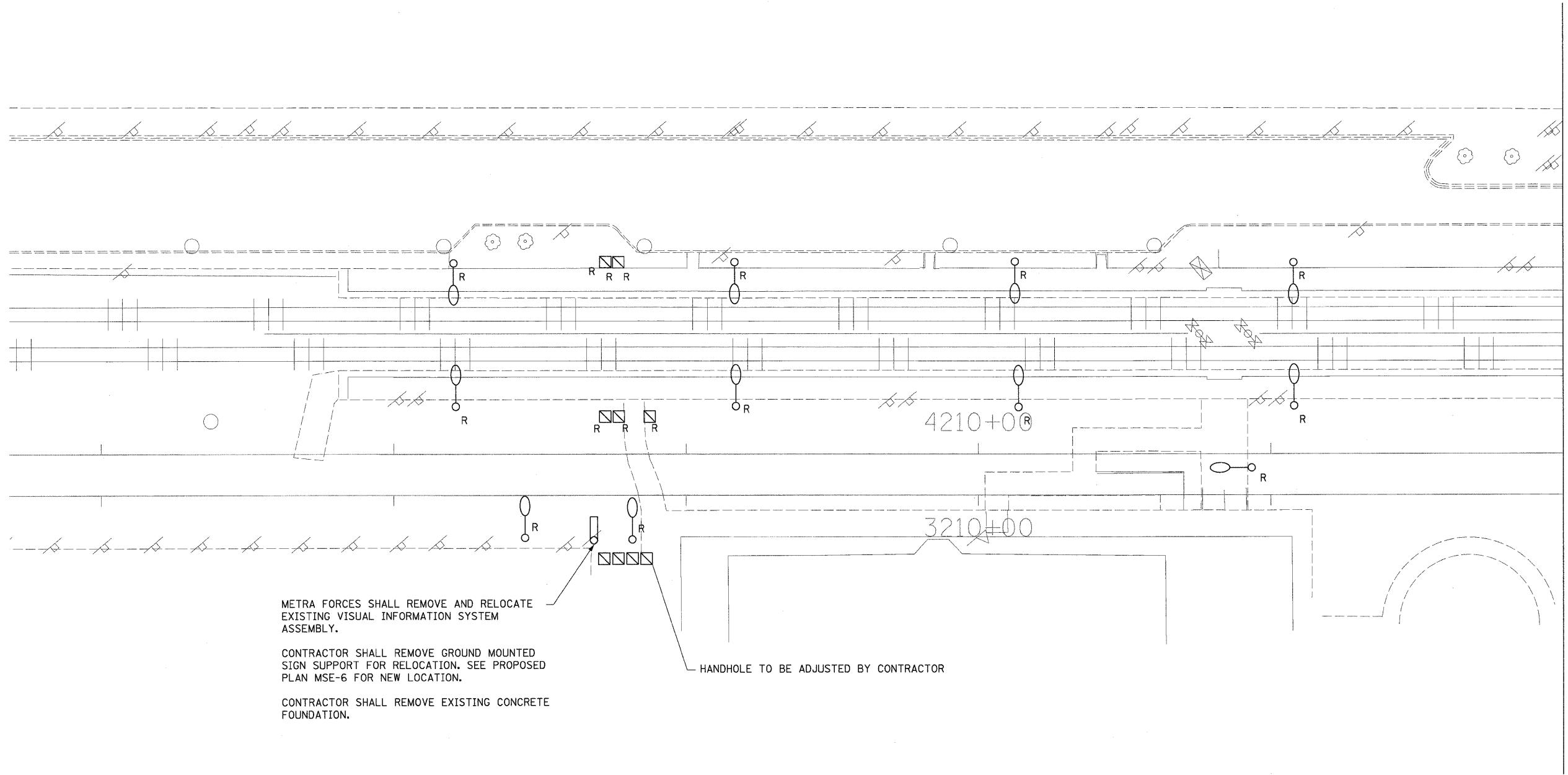
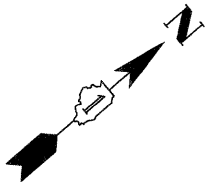
VOLTAGE: 120 / 208 V WIRE: 4 TOTAL CONNECTED WATTS - 5480  
 MAIN: 100A MOUNTING: SURFACE PHASE A - 2600 PHASE B - 1920 PHASE C - 960



EXISTING PANELBOARD PPL

VOLTAGE: 120 / 208 V WIRE: 4 TOTAL CONNECTED WATTS - 9020  
 MAIN: 100A MOUNTING: SURFACE PHASE A - 4190 PHASE B - 4200 PHASE C - 630





METRA FORCES SHALL REMOVE AND RELOCATE EXISTING VISUAL INFORMATION SYSTEM ASSEMBLY.

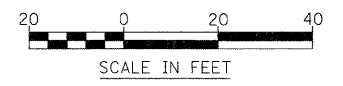
CONTRACTOR SHALL REMOVE GROUND MOUNTED SIGN SUPPORT FOR RELOCATION. SEE PROPOSED PLAN MSE-6 FOR NEW LOCATION.

CONTRACTOR SHALL REMOVE EXISTING CONCRETE FOUNDATION.

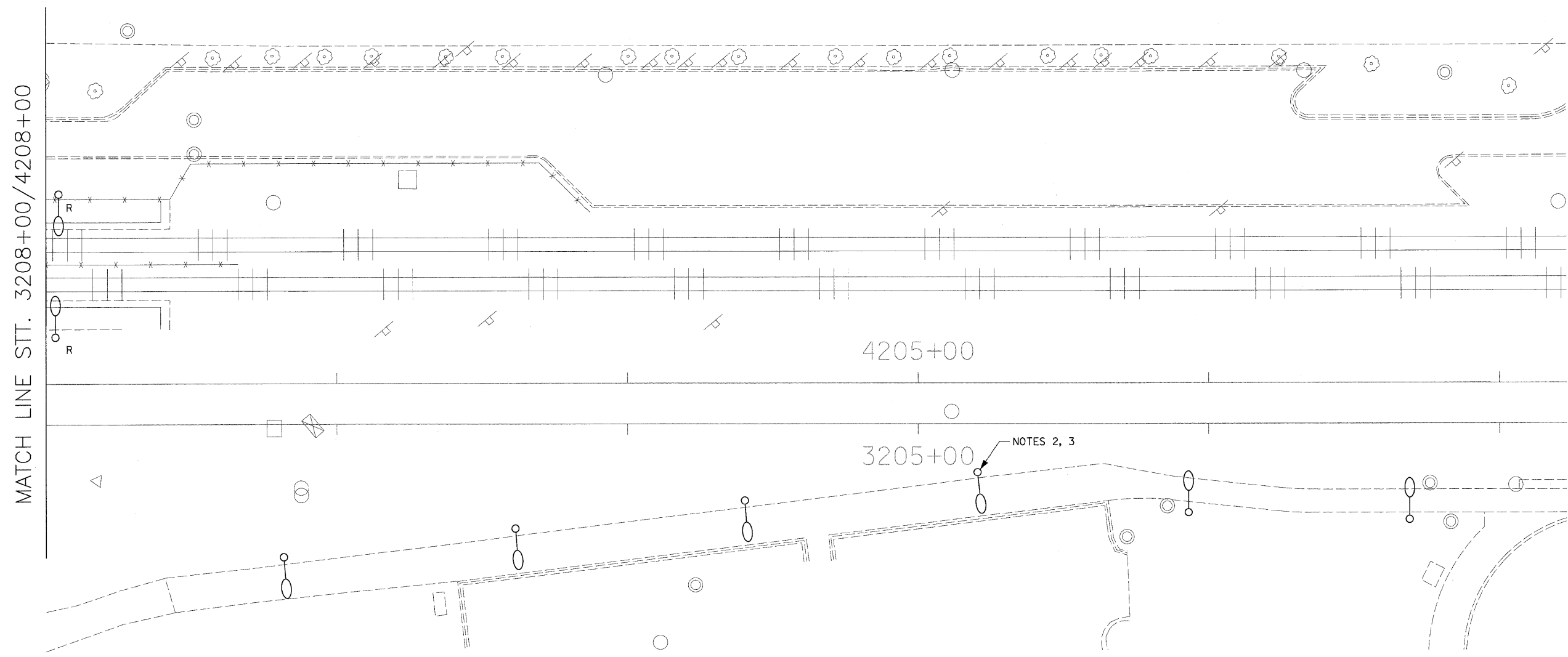
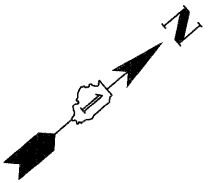
HANDHOLE TO BE ADJUSTED BY CONTRACTOR

**NOTE:**  
EXISTING PLATFORM LIGHTING SHALL BE MAINTAINED UNTIL TEMPORARY LIGHTING IS OPERATIONAL AND/OR TRAFFIC WILL BE SWITCHED TO THE NEW TRACKS/PLATFORMS. SEE SHEET MSE-5 FOR TEMPORARY LIGHTING.

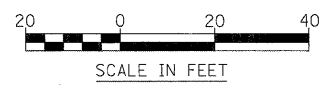
CONTRACTOR SHALL REMOVE ALL PLATFORM LIGHTING.



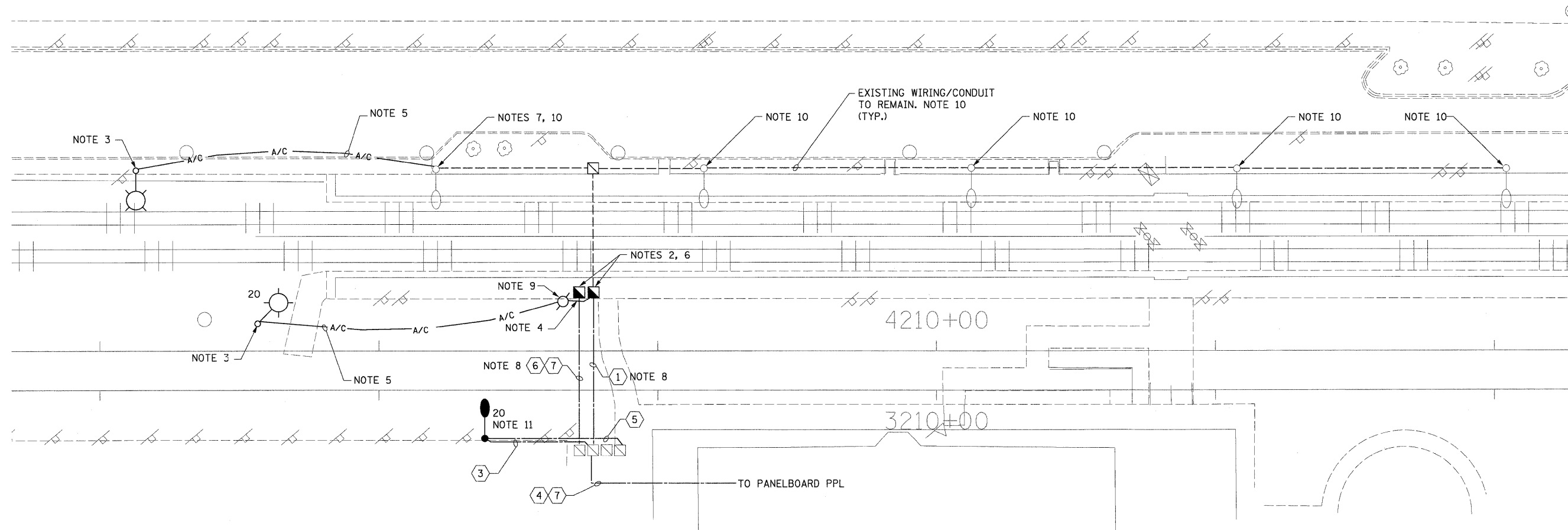
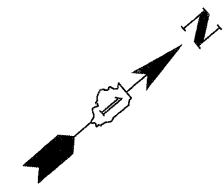
FILE NAME =	USER NAME = JSpiekermann	DESIGNED MB	REVISED -	<b>STATE OF ILLINOIS DEPARTMENT OF TRANSPORTATION</b>	<b>METRA STATION AND PLATFORMS ELECTRICAL EXISTING AND DEMOLITION PLAN</b>		F.A. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
	DRAWN MB	REVISED -	330				2010-135-I	COOK	101	59	
	PLOT SCALE = 1" = 20'	CHECKED MCP	REVISED -				<b>MSE-3</b>		CONTRACT NO. 60N09		
	PLOT DATE = 08/13/10	DATE 12/27/10	REVISED -				SCALE: 1"=20'		SHEET NO. 1 OF 2 SHEETS	STA. TO STA.	ILLINOIS FED. AID PROJECT



- NOTES:**
1. EXISTING PLATFORM LIGHTING SHALL BE MAINTAINED UNTIL TEMPORARY LIGHTING IS OPERATIONAL AND/OR TRAFFIC WILL BE SWITCHED TO THE NEW TRACKS/PLATFORMS. SEE SHEET MSE-5 FOR TEMPORARY LIGHTING.
  2. REMOVE AND RELOCATE EXISTING LIGHTING UNIT ON NEW LIGHT POLE FOUNDATION. ABANDON THE EXISTING WIRING. SEE PROPOSED PLAN MSE-7 FOR NEW LOCATION.
  3. REMOVE CONCRETE FOUNDATION.



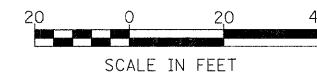
FILE NAME =	USER NAME = JSpiekermann	DESIGNED MB	REVISD -	<b>STATE OF ILLINOIS DEPARTMENT OF TRANSPORTATION</b>	<b>METRA STATION AND PLATFORMS ELECTRICAL EXISTING AND DEMOLITION PLAN</b>	F.A. RTE. 330	SECTION 2010-135-1	COUNTY COOK	TOTAL SHEETS 101	SHEET NO. 60		
	PLOT SCALE = 1" = 20'	CHECKED MCP	REVISD -			SCALE: 1"=20'	SHEET NO. 2 OF 2 SHEETS	STA.	TO STA.	<b>MSE-4</b> CONTRACT NO. 60N09		
	PLOT DATE = 08/13/10	DATE 12/27/10	REVISD -			ILLINOIS FED. AID PROJECT						



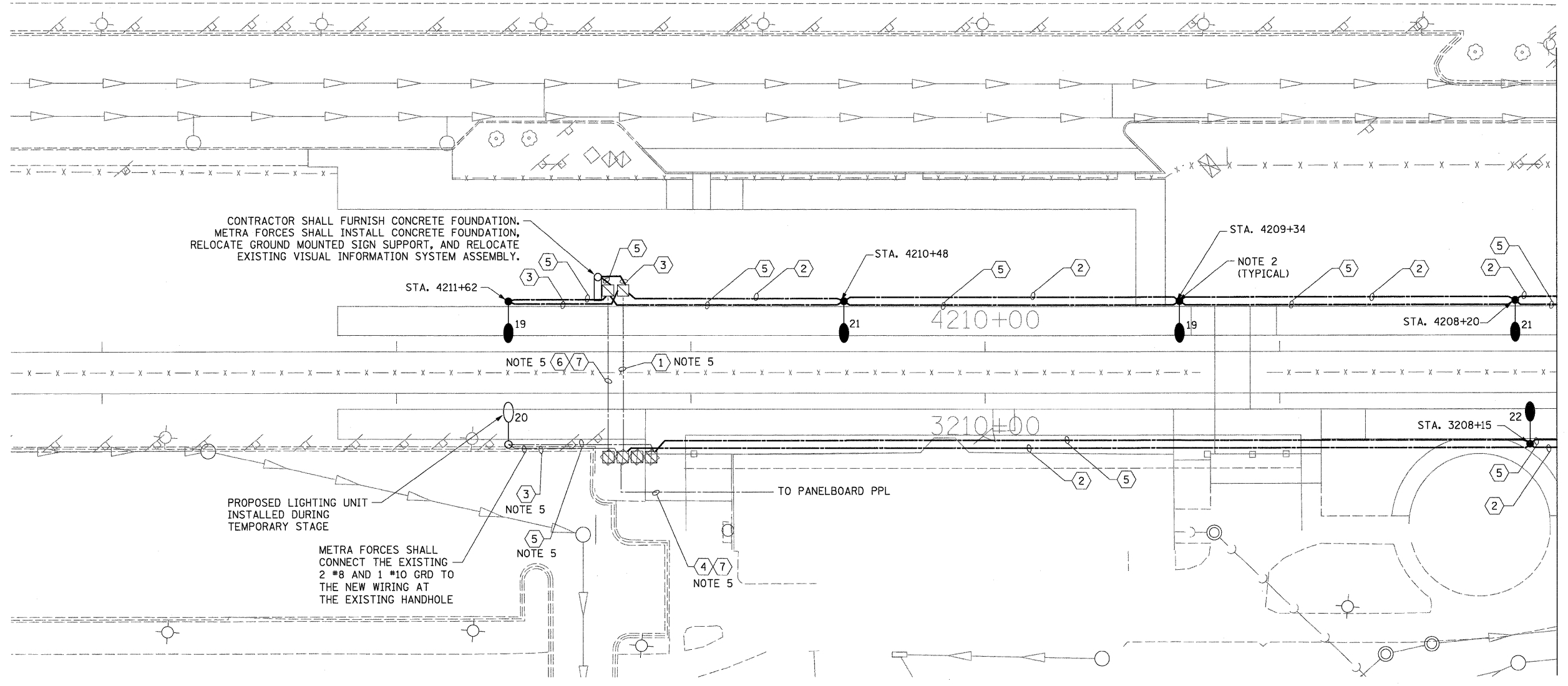
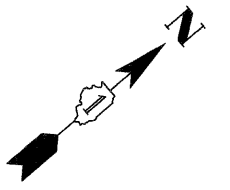
**NOTES:**

1. CONTRACTOR SHALL FURNISH ALL MATERIALS AND RELATED COMPONENTS FOR TEMPORARY LIGHTING AS SHOWN. METRA FORCES SHALL INSTALL AND WIRE ALL WORK AS SHOWN.
2. CONTRACTOR SHALL FURNISH NEW HANDHOLE, PORTLAND CEMENT CONCRETE FOR INSTALLATION BY METRA.
3. CONTRACTOR SHALL FURNISH LIGHT POLE, WOOD, 40 FOOT, CLASS 3 FOR INSTALLATION BY METRA FORCES. METRA FORCES SHALL REMOVE FIXTURE AND ARM FROM EXISTING PLATFORM LIGHTING POLES AND INSTALL THEM ON THE WOOD POLE USING PROPER HARDWARE. THE LUMINAIRE SHALL HAVE A 30 FT. MOUNTING HEIGHT FROM THE TEMPORARY SIDEWALK.
4. CONTRACTOR SHALL FURNISH 1 1/2" CONDUIT FOR INSTALLATION BY METRA FORCES BETWEEN NEW HANDHOLE AND TEMPORARY 20 FOOT WOOD POLE. METRA FORCES SHALL EXTEND THE CONDUITS 10' UP THE WOOD POLE. METRA FORCES SHALL RUN AERIAL CABLE FROM LIGHTING HANDHOLE TO THE TOP OF THE WOOD POLE.
5. CONTRACTOR SHALL FURNISH AERIAL CABLE, 3 1/C NO. 8 WITH MESSENGER WIRE FOR INSTALLATION BY METRA FORCES.
6. METRA FORCES SHALL INTERCEPT EXISTING WIRING AT THE NEW HANDHOLE LOCATION AND CONNECT IT TO THE PROPER CIRCUITS COMING FROM THE EXISTING HANDHOLES ON NORTH-EAST SIDE.

7. METRA FORCES SHALL CONNECT AERIAL CABLE AT THE LIGHT CIRCUIT IN THE POLE'S HANDHOLE AND RUN IT TO THE TOP OF THE POLE AND TO THE LIGHT POLE, WOOD.
8. METRA FORCES SHALL COORDINATE THE INSTALLATION DEPTH OF THE CONDUIT(S) WITH OTHER TRADES.
9. CONTRACTOR SHALL FURNISH LIGHT POLE, WOOD, 20 FOOT, CLASS 5 FOR INSTALLATION BY METRA FORCES. INSTALL THE POLE TANGENT TO EXISTING PLATFORM.
10. EXISTING AND/OR TEMPORARY PLATFORM LIGHTING SHALL BE MAINTAINED UNTIL TRAFFIC WILL BE SWITCHED TO THE NEW TRACKS/PLATFORMS.
11. CONTRACTOR SHALL FURNISH NEW LIGHT POLE, LUMINAIRE AND RELATED COMPONENTS AS SHOWN. FOR DETAILS, SEE SHEET MSE-8. METRA FORCES SHALL INSTALL AND WIRE ALL WORK AS SHOWN.

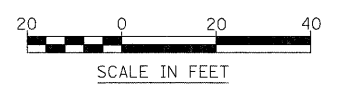


FILE NAME =	USER NAME = JSprekermann	DESIGNED MB	REVISED -	<b>STATE OF ILLINOIS DEPARTMENT OF TRANSPORTATION</b>	<b>METRA STATION AND PLATFORMS ELECTRICAL TEMPORARY PLAN</b>			F.A. RTE. 330	SECTION 2010-135-1	COUNTY COOK	TOTAL SHEETS 101	SHEET NO. 61
	PLOT SCALE = 1" = 20'	CHECKED MCP	REVISED -					<b>MSE-5</b>				CONTRACT NO. 60N09
PLOT DATE = 08/13/10	DATE 12/27/10	REVISED -	SCALE: 1"=20'		SHEET NO. 1 OF 1 SHEETS	STA. TO STA.	ILLINOIS FED. AID PROJECT					

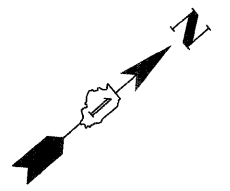


MATCH LINE STT. 3208+00/4208+00

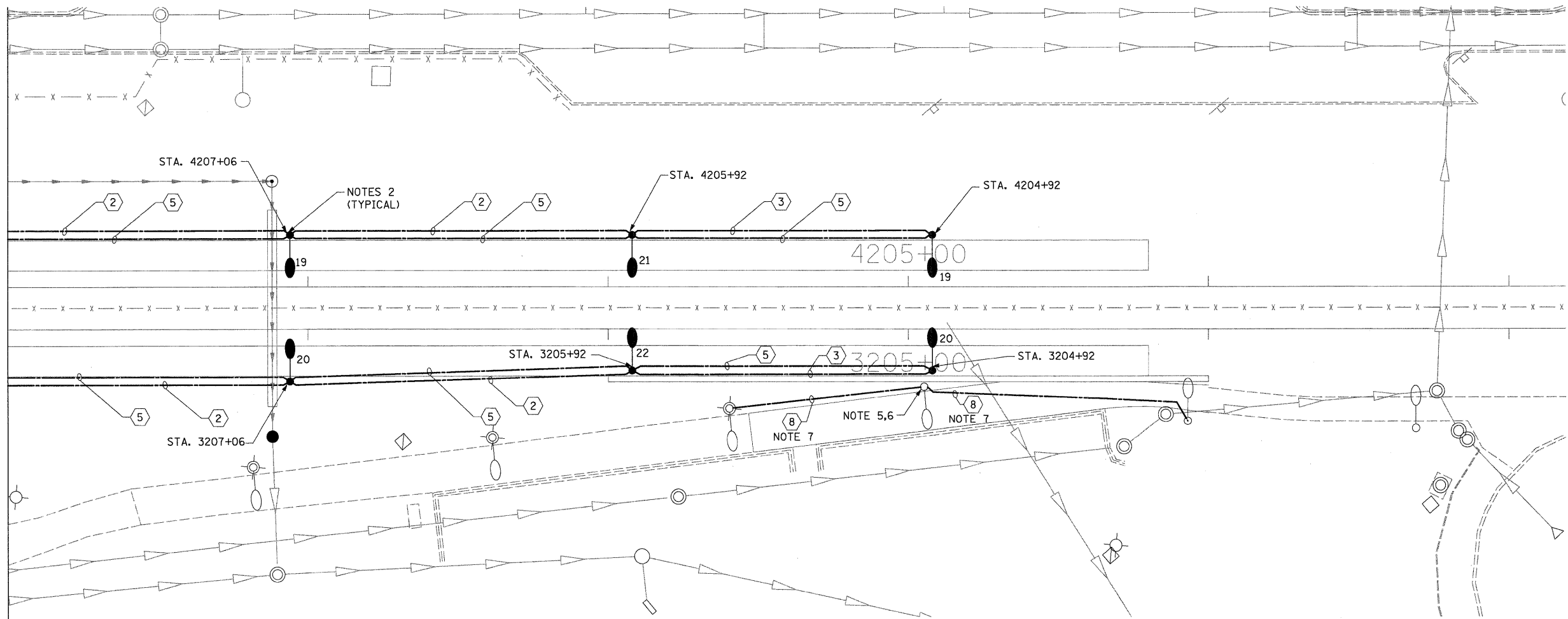
- NOTES:**
1. REFER TO SHEET MSE-1 FOR SYMBOLS, ABBREVIATIONS AND GENERAL NOTES.
  2. CONTRACTOR SHALL FURNISH NEW LIGHT POLE FOUNDATION, CONDUITS, WIRING, LIGHT POLES, LUMINAIRES AND RELATED COMPONENTS AS SHOWN. FOR DETAILS, SEE SHEET MSE-8. METRA FORCES SHALL INSTALL AND WIRE ALL WORK AS SHOWN.
  3. FOR PANEL SCHEDULE, SEE SHEET MSE-2.
  4. FOR CONDUIT AND WIRING SCHEDULE, SEE SHEET MSE-1.
  5. CONDUITS AND WIRES INSTALLED DURING TEMPORARY STAGE. SEE SHEET MSE-5.



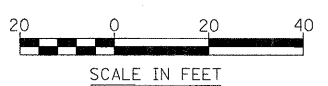
FILE NAME =	USER NAME = JSpsokermann	DESIGNED MB	REVISED -	<b>STATE OF ILLINOIS DEPARTMENT OF TRANSPORTATION</b>	<b>METRA STATION AND PLATFORMS PROPOSED ELECTRICAL PLAN</b>	F.A. RTE. 330	SECTION 2010-135-1	COUNTY COOK	TOTAL SHEETS 101	SHEET NO. 62		
	PLOT SCALE = 1" = 20'	DRAWN MB	REVISED -			SCALE: 1"=20'	SHEET NO. 1 OF 2 SHEETS	STA.	TO STA.	CONTRACT NO. 60N09		
	PLOT DATE = 08/13/10	CHECKED MCP	REVISED -			ILLINOIS FED. AID PROJECT						
		DATE 12/27/10	REVISED -									



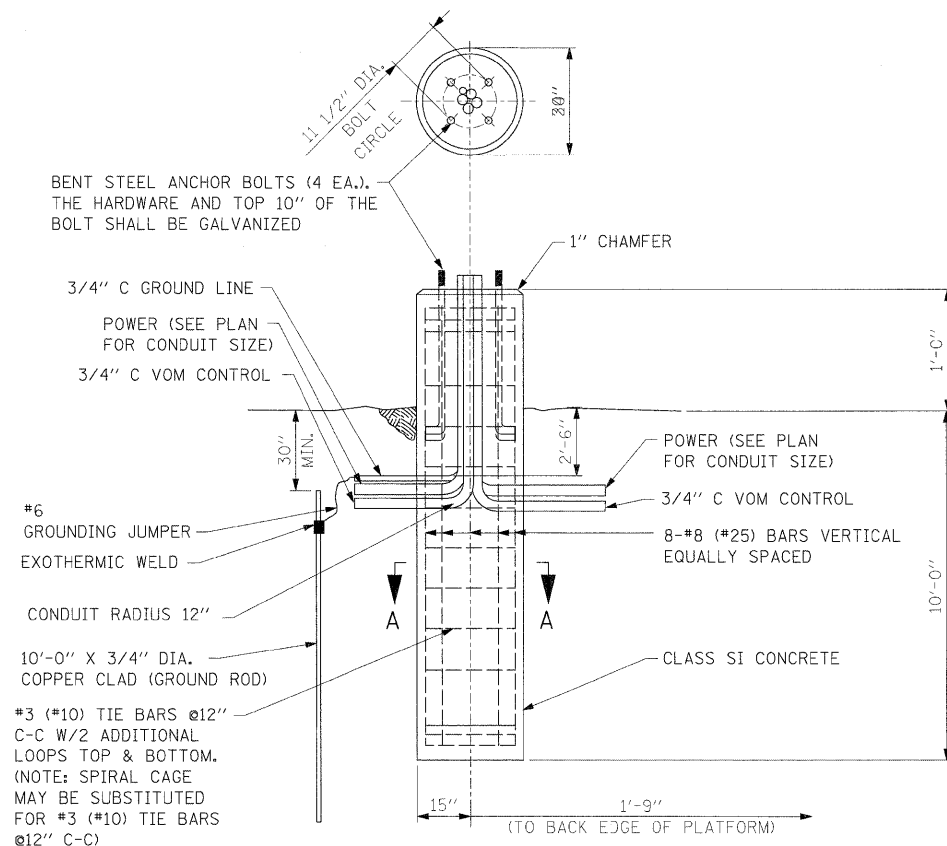
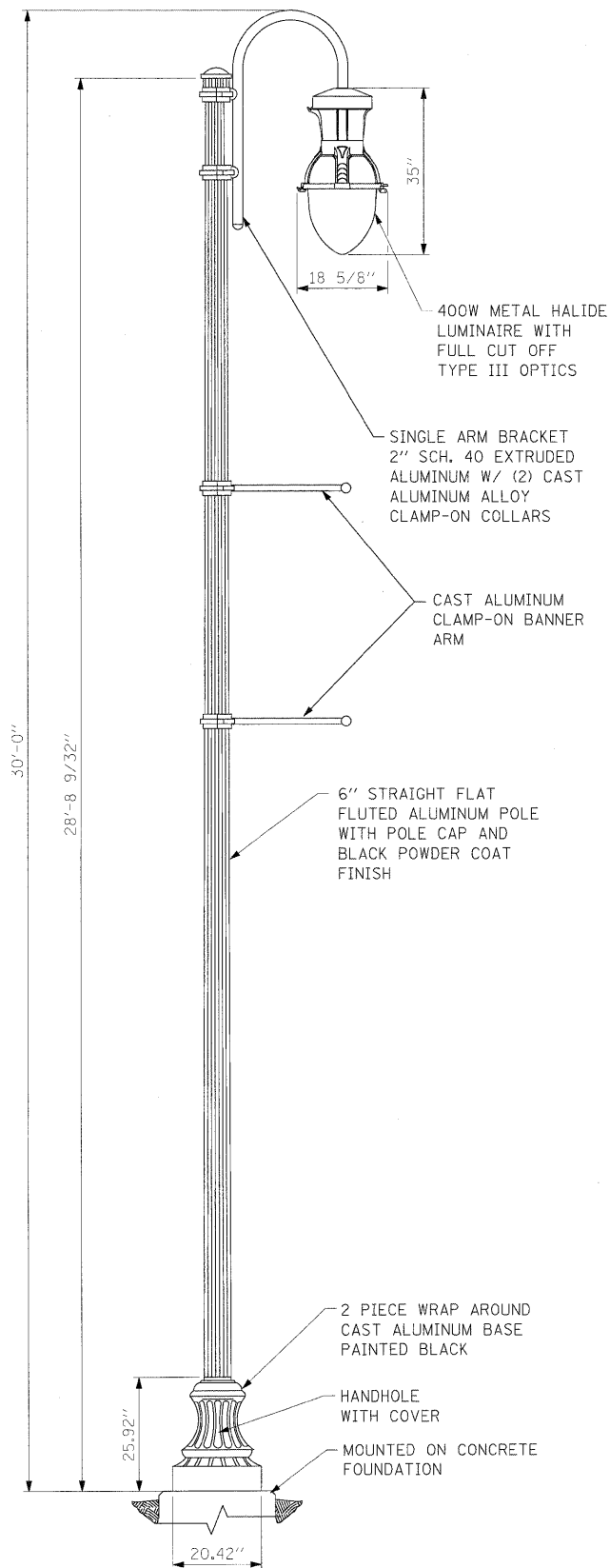
MATCH LINE STT. 3208+00/4208+00



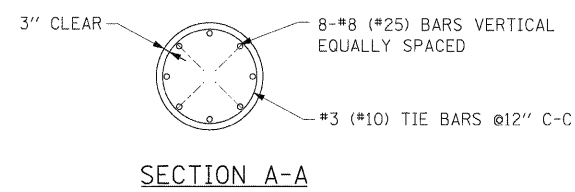
- NOTES:**
1. REFER TO SHEET MSE-1 FOR SYMBOLS, ABBREVIATIONS AND GENERAL NOTES.
  2. CONTRACTOR SHALL FURNISH NEW LIGHT POLE FOUNDATION, CONDUITS, WIRING, LIGHT POLES, LUMINAIRES AND RELATED COMPONENTS AS SHOWN. FOR DETAILS, SEE SHEET MSE-8. METRA FORCES SHALL INSTALL AND WIRE ALL WORK AS SHOWN.
  3. FOR PANEL SCHEDULE, SEE SHEET MSE-2.
  4. FOR CONDUIT AND WIRING SCHEDULE, SEE SHEET MSE-1.
  5. CONTRACTOR SHALL INSTALL LIGHT POLE FOUNDATION TANGENT TO RETAINING WALL, BETWEEN WALL AND PROPOSED PATH.
  6. CONTRACTOR SHALL RELOCATE EXISTING LIGHTING UNIT ON NEW FOUNDATION.
  7. CONTRACTOR SHALL INSTALL NEW CONDUIT AND WIRING FROM RELOCATED POLE TO EXISTING POLES. SPLICE TO EXISTING CIRCUIT IN EXISTING LIGHT POLE HANDHOLE. CHANGE OVER SHALL BE DONE DURING DAYLIGHT HOURS AFTER ALL OTHER WORK IS DONE. MAINTAIN EXISTING LIGHTING DURING HOURS OF DARKNESS. ALL MATERIAL AND LABOR FOR CONNECTING NEW WIRING TO EXISTING LIGHT POLE SHALL BE INCLUDED IN THE "CONDUIT IN TRENCH, 1/4" DIA. COILABLE NONMETALLIC CONDUIT" PAY ITEM. SEPARATE PAYMENT WILL NOT BE MADE.



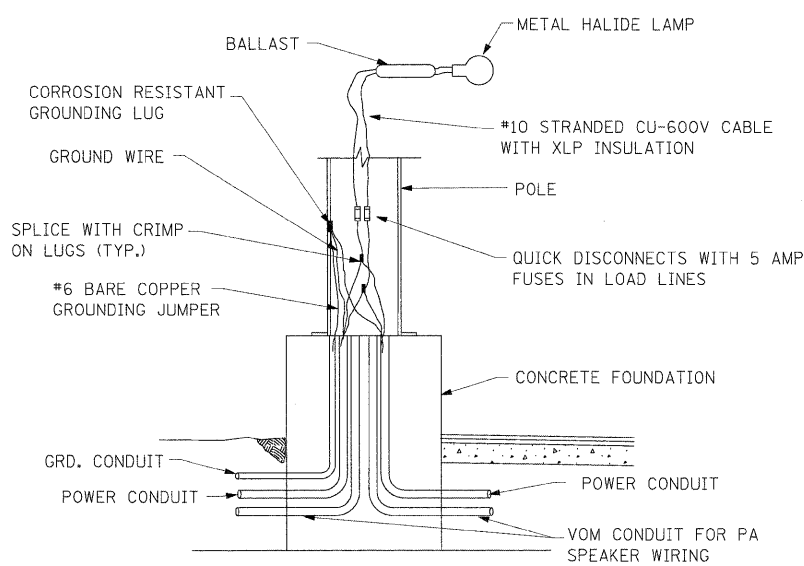
FILE NAME =	USER NAME = JSpeckermann	DESIGNED MB	REVISED -	<b>STATE OF ILLINOIS DEPARTMENT OF TRANSPORTATION</b>	<b>METRA STATION AND PLATFORMS PROPOSED ELECTRICAL PLAN</b>	F.A. RTE. 330	SECTION 2010-135-I	COUNTY COOK	TOTAL SHEETS 101	SHEET NO. 63		
	PLOT SCALE = 1" = 20'	DRAWN MB	REVISED -			SCALE: 1"=20'	SHEET NO. 2 OF 2 SHEETS	STA.	TO STA.	<b>MSE-7</b>		
	PLOT DATE = 08/13/10	CHECKED MCP	REVISED -			CONTRACT NO. 60N09						
		DATE 12/27/10	REVISED -			ILLINOIS FED. AID PROJECT						



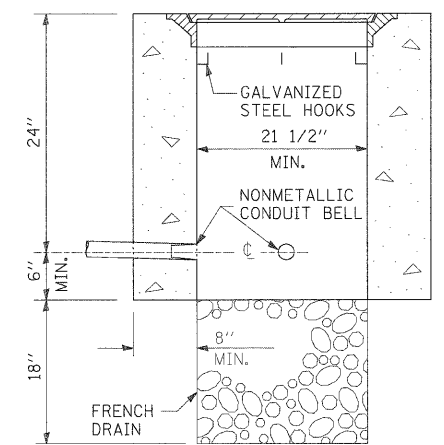
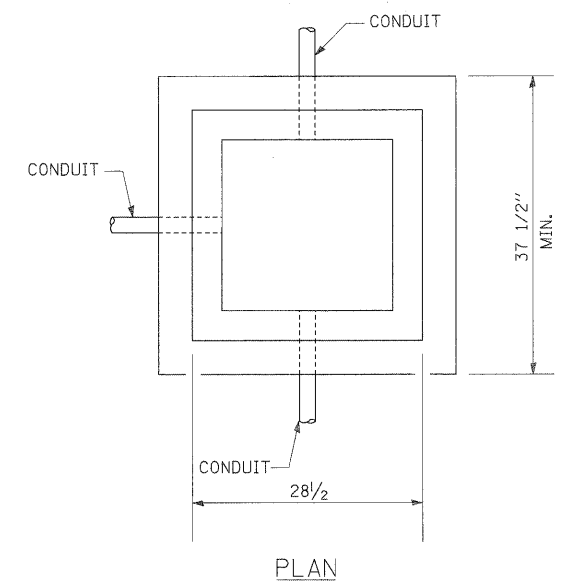
LIGHT POLE FOUNDATION DETAIL  
SCALE: NONE



SECTION A-A



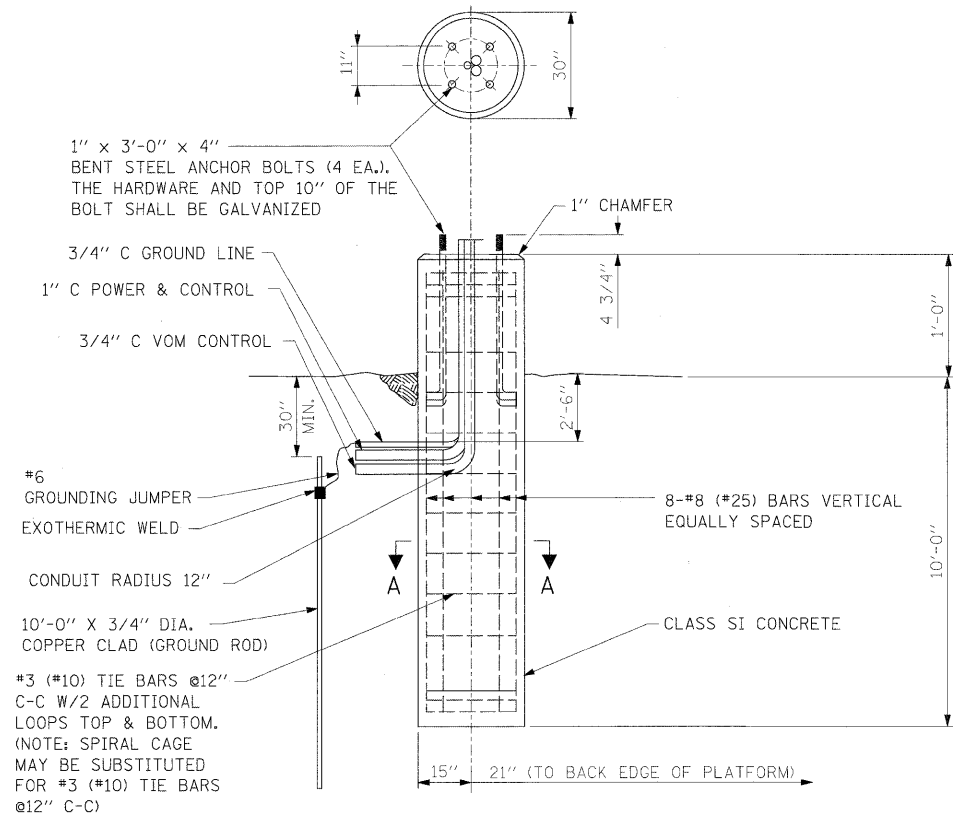
TYPICAL POLE WIRING DIAGRAM  
SCALE: NONE



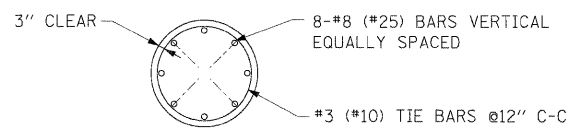
PORTLAND CEMENT CONCRETE HANDHOLE

FILE NAME =	USER NAME = JSpiekermann	DESIGNED MB	REVISED -	<b>STATE OF ILLINOIS DEPARTMENT OF TRANSPORTATION</b>	<b>METRA STATION AND PLATFORMS ELECTRICAL DETAILS</b>			F.A. RTE. 330	SECTION 2010-135-1	COUNTY COOK	TOTAL SHEETS 101	SHEET NO. 64
PLDT SCALE = NONE	CHECKED MCP	REVISIONS	REVISED -		SCALE: NONE SHEET NO. 1 OF 2 SHEETS STA. TO STA.			<b>MSE-8</b> CONTRACT NO. 60N09				
PLDT DATE = 08/13/10	DATE 12/27/10	REVISIONS	REVISED -		ILLINOIS FED. AID PROJECT							





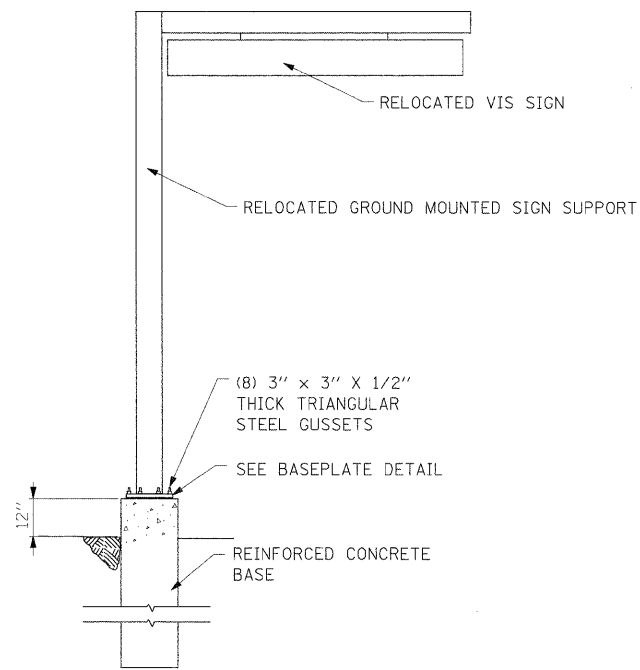
#6 GROUNDING JUMPER EXOTHERMIC WELD  
CONDUIT RADIUS 12"  
10'-0" X 3/4" DIA. COPPER CLAD (GROUND ROD)  
#3 (#10) TIE BARS @12" C-C W/2 ADDITIONAL LOOPS TOP & BOTTOM. (NOTE: SPIRAL CAGE MAY BE SUBSTITUTED FOR #3 (#10) TIE BARS @12" C-C)



SECTION A-A

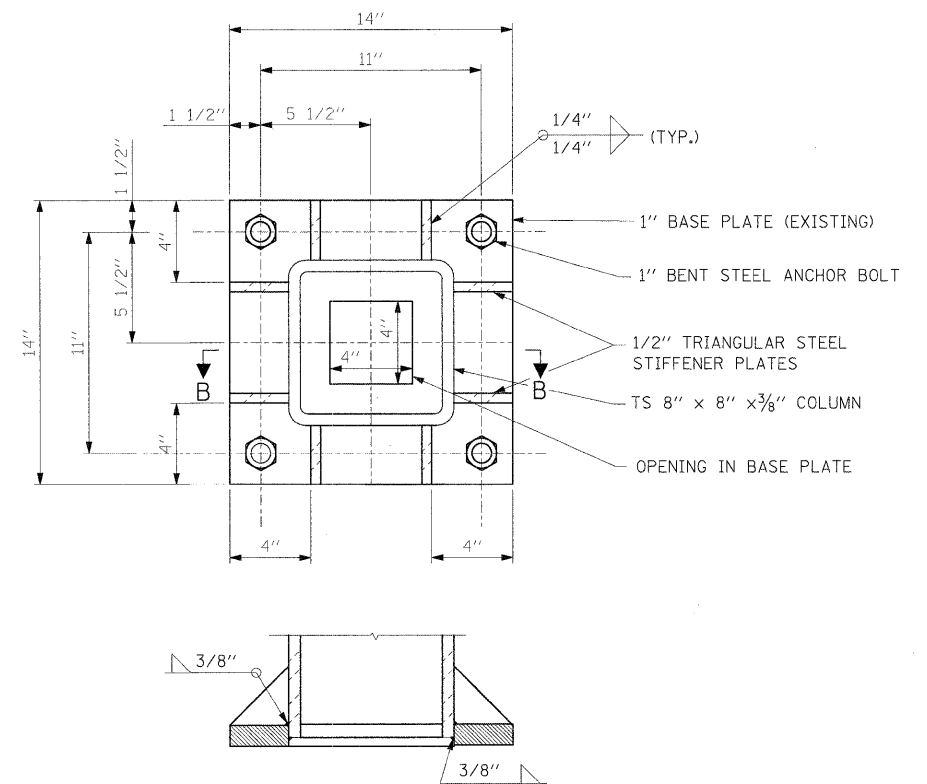
**NEW VIS POLE FOUNDATION DETAIL**

SCALE: NONE



**VIS POLE DETAIL**

SCALE: NONE

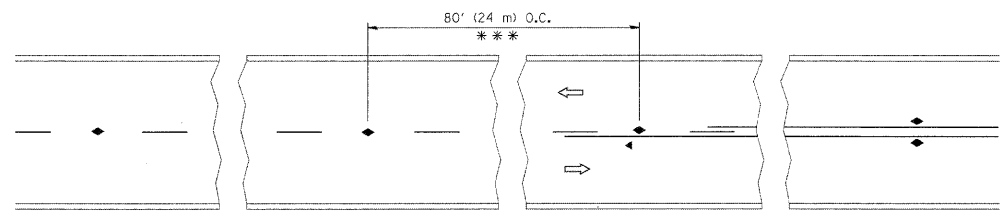


SECTION B-B

**RELOCATED BASE PLATE DETAIL**

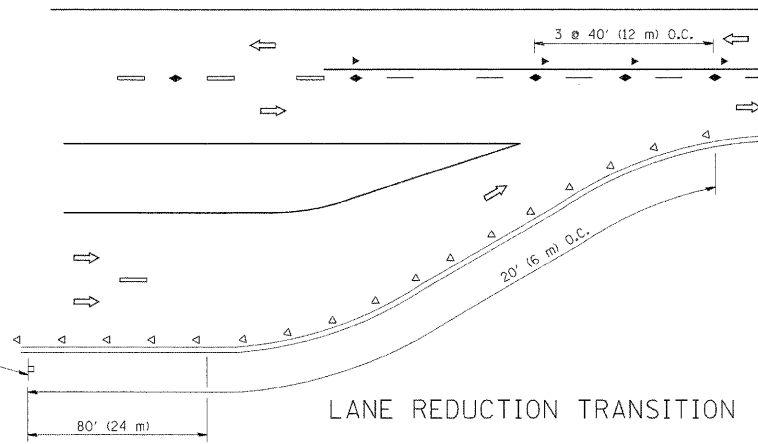
SCALE: NONE

FILE NAME #	USER NAME = JSpsiekermann	DESIGNED MB	REVISED -	<b>STATE OF ILLINOIS DEPARTMENT OF TRANSPORTATION</b>	<b>METRA STATION AND PLATFORMS ELECTRICAL DETAILS</b>			F.A. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.	
		DRAWN MB	REVISED -					330	2010-135-I	COOK	101	65	
	PLOT SCALE = NONE	CHECKED MCP	REVISED -					<b>MSE-9</b>				CONTRACT NO. 60N09	
	PLOT DATE = 08/13/10	DATE 12/27/10	REVISED -					ILLINOIS FED. AID PROJECT					
				SCALE: NONE		SHEET NO. 2 OF 2 SHEETS		STA. TO STA.					

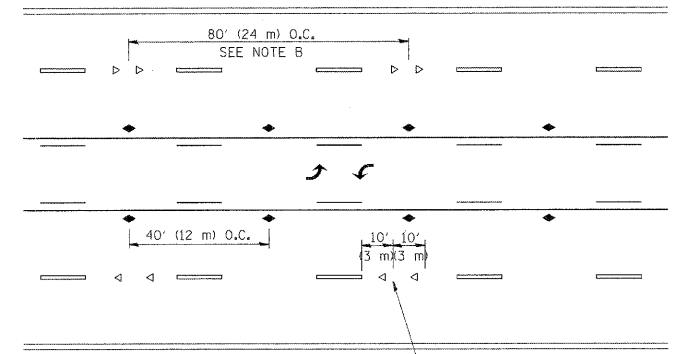


\*\*\* REDUCE TO 40' (12 m) O.C. ON CURVES WITH POSTED OR ADVISORY SPEED 45 M.P.H. (70 km/h) OR LESS.

TWO-LANE/TWO-WAY

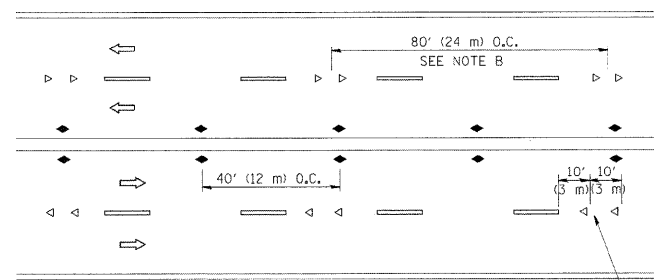


LANE REDUCTION TRANSITION



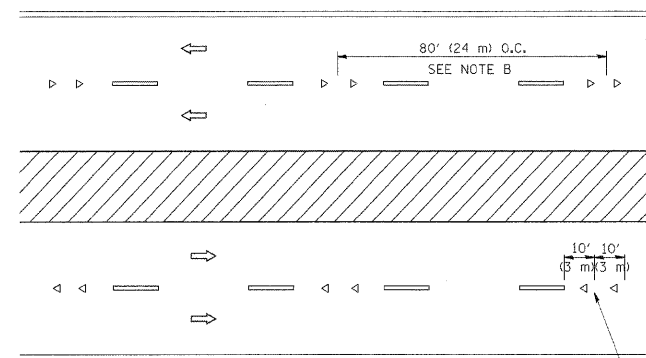
SEE NOTE A

TWO-WAY LEFT TURN



SEE NOTE A

MULTI-LANE/UNDIVIDED



SEE NOTE A

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.

LANE MARKER NOTES

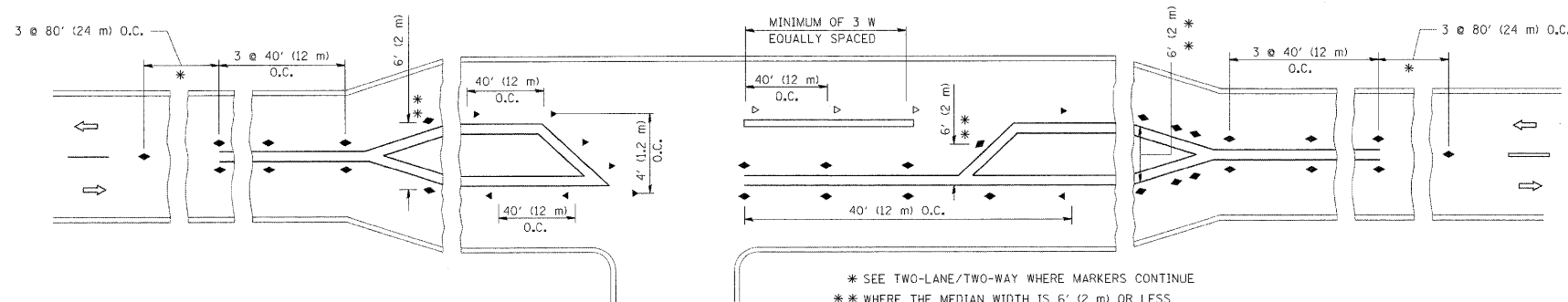
- A. USE DOUBLE LANE LINE MARKERS SPACED AS SHOWN.
- B. REDUCE TO 40' (12 m) O.C. ON CURVES WHERE ADVISORY SPEEDS ARE 10 M.P.H (20 km/h) LOWER THAN POSTED SPEEDS.

SYMBOLS

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

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.

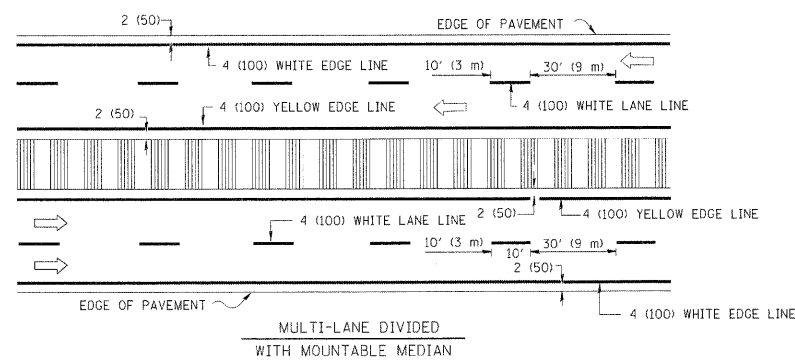
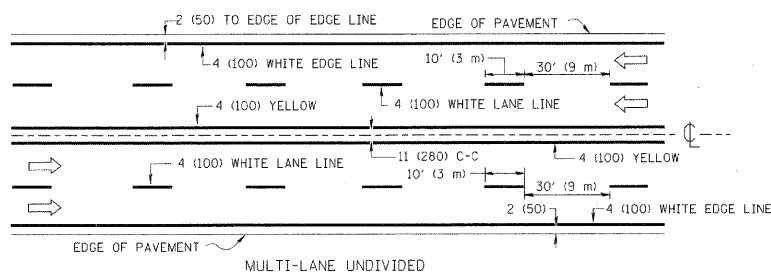
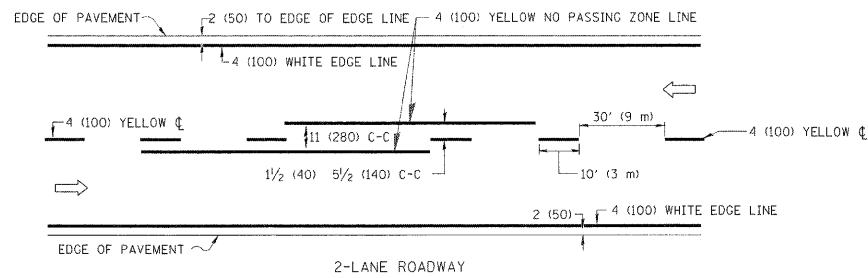


\* SEE TWO-LANE/TWO-WAY WHERE MARKERS CONTINUE  
\*\* WHERE THE MEDIAN WIDTH IS 6' (2 m) OR LESS USE TWO-WAY MARKERS.

LEFT TURN

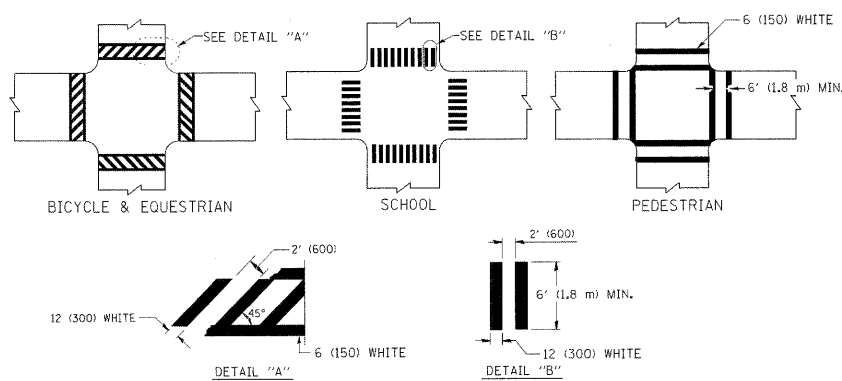
All dimensions are in inches (millimeters) unless otherwise shown.

FILE NAME =	USER NAME = drivakosgn	DESIGNED -	REVISED - T. RAMMACHER 09-19-94	<b>STATE OF ILLINOIS DEPARTMENT OF TRANSPORTATION</b>	<b>TYPICAL APPLICATIONS</b>			F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
c:\pw\work\pwidot\drivakosgn\d018315\to	ldgn	DRAWN -	REVISED - T. RAMMACHER 03-12-99		<b>RAISED REFLECTIVE PAVEMENT MARKERS (SNOW-PLOW RESISTANT)</b>			330	2010-135-1	COOK	101	66
		PLOT SCALE = 50,000' / IN.	REVISOR - T. RAMMACHER 01-06-00		SCALE: NONE			SHEET NO. 1 OF 1 SHEETS			CONTRACT NO. 60N09	
		PLOT DATE = 9/9/2009	REVISOR - C. JUCIUS 09-09-09		STA. TO STA.			FED. ROAD DIST. NO. 1   ILLINOIS   FED. AID PROJECT				

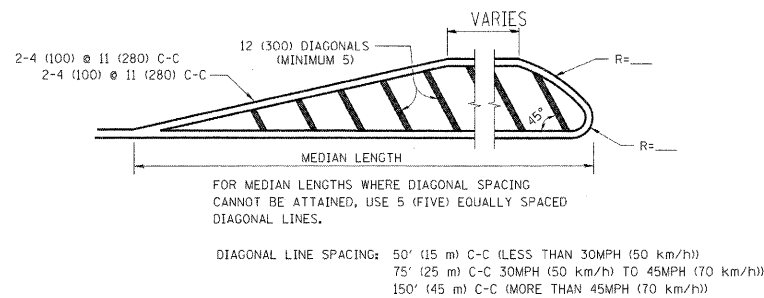
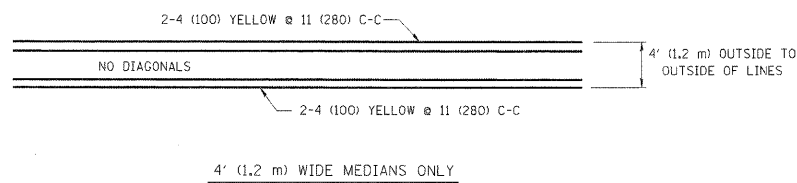


NOTE: MEDIANS WITH BARRIER CURB DO NOT REQUIRE AN EDGE LINE

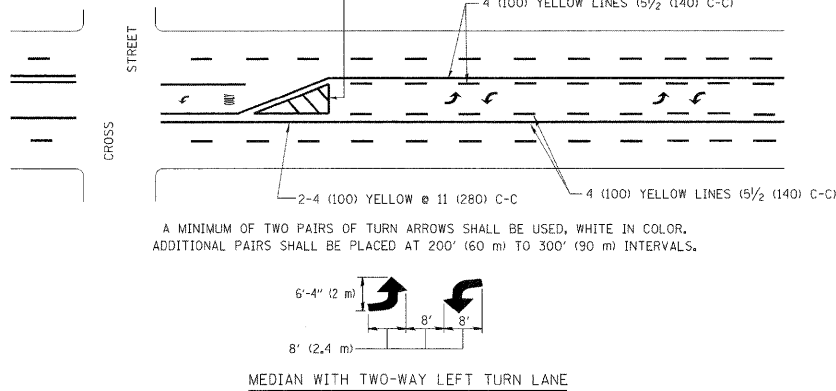
TYPICAL LANE AND EDGE LINE MARKING



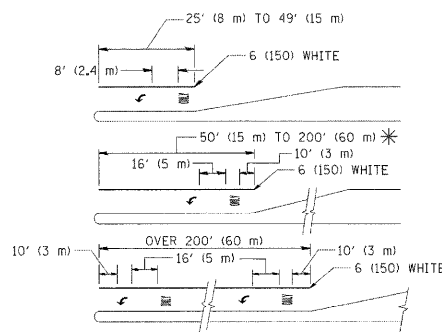
TYPICAL CROSSWALK MARKING



MEDIANS OVER 4' (1.2 m) WIDE



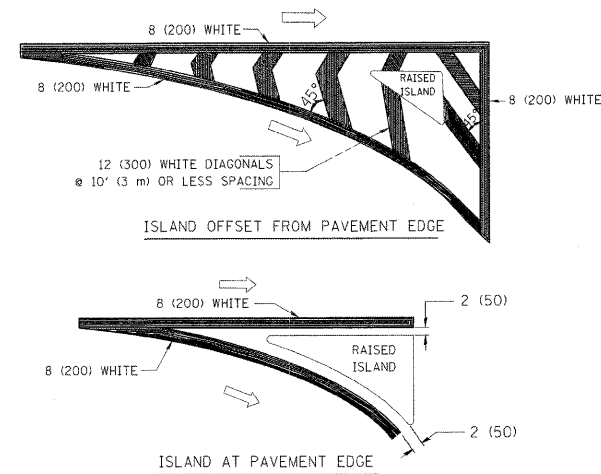
TYPICAL PAINTED MEDIAN MARKING



FULL SIZE LETTERS 8' (2.4 m) AND ARROWS SHALL BE USED.  
 \* 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

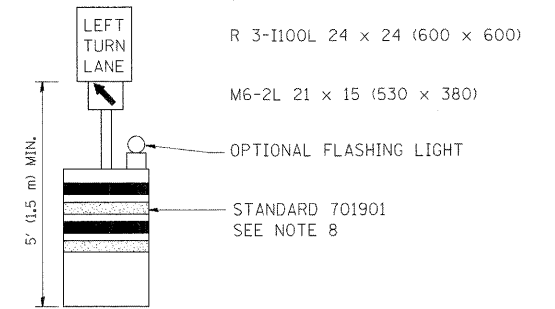
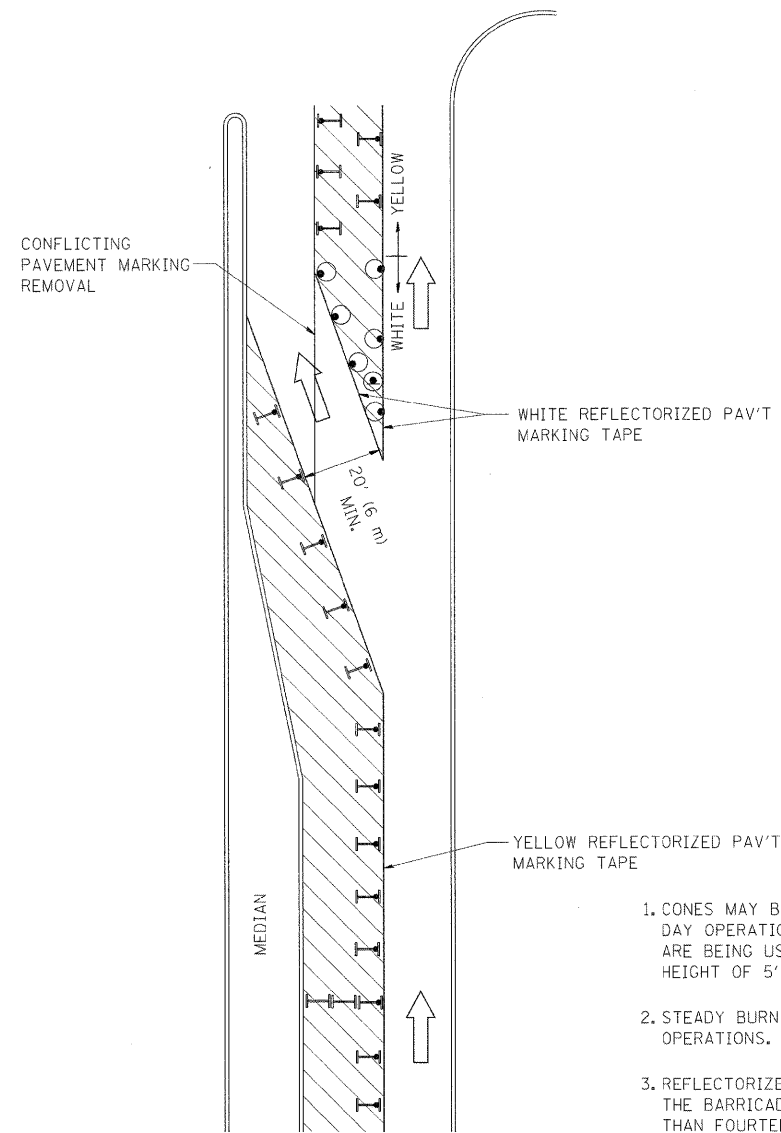


TYPICAL ISLAND MARKING

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 1/2 (140) C-C FROM SKIP-DASH CENTERLINE 11 (280) C-C OMIT SKIP-DASH CENTERLINE BETWEEN
LANE LINES	4 (100) 5 (125) ON FREEWAYS	SKIP-DASH SKIP-DASH	WHITE WHITE	10' (3 m) LINE WITH 30' (9 m) SPACE
DOTTED LINES (EXTENSIONS OF CENTER, LANE OR TURN LANE MARKINGS)	SAME AS LINE BEING EXTENDED	SKIP-DASH	SAME AS LINE BEING EXTENDED	2' (600) LINE WITH 6' (1.8 m) SPACE
EDGE LINES	4 (100)	SOLID	YELLOW-LEFT WHITE-RIGHT	OUTLINE 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	SKIP-DASH AND SOLID	YELLOW	10' (3 m) LINE WITH 30' (9 m) SPACE FOR SKIP-DASH; 5 1/2 (140) C-C BETWEEN SOLID LINE AND SKIP-DASH LINE
	8' (2.4m) LEFT ARROW	IN PAIRS	WHITE	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: "RR"=3.6 SQ. FT. (0.33 m <sup>2</sup> ) EACH "X"=54.0 SQ. FT. (5.0 m <sup>2</sup> )
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.



**GENERAL NOTES**

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

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

**LEGEND**

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

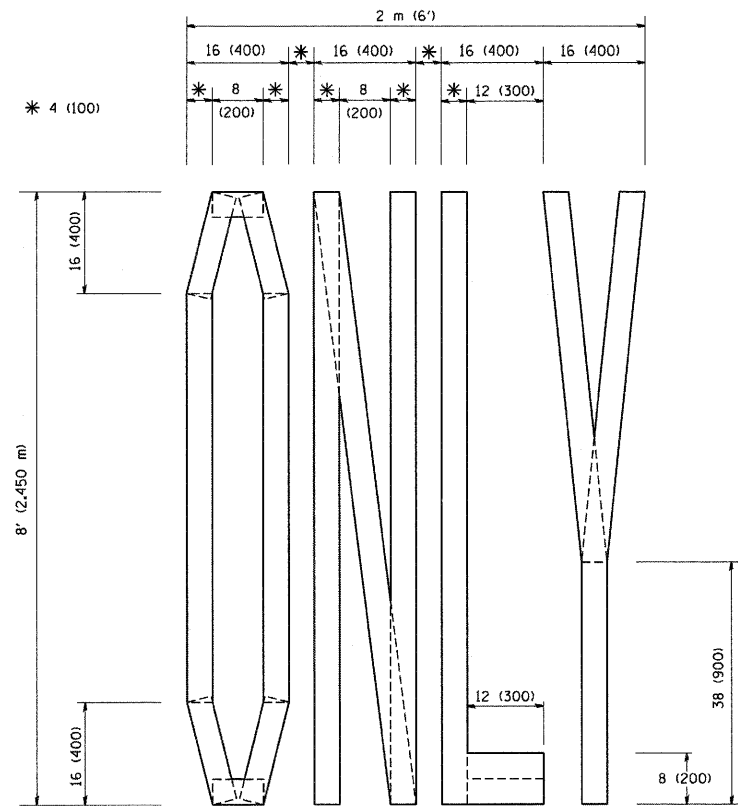
FILE NAME =	USER NAME = drivakosgn	REVISED -T. RAMMACHER 09-08-94	REVISED - R. BORO 09-14-09
c:\pwork\PWID01\DRIVAKOSGN\H0100315\14.dgn		REVISED - A. HOUSEH 11-07-95	REVISED -
	PLOT SCALE = 49.9999 // IN.	REVISED - A. HOUSEH 10-12-96	REVISED -
	PLOT DATE = 9/14/2009	REVISED -T. RAMMACHER 01-06-00	REVISED -

**STATE OF ILLINOIS  
DEPARTMENT OF TRANSPORTATION**

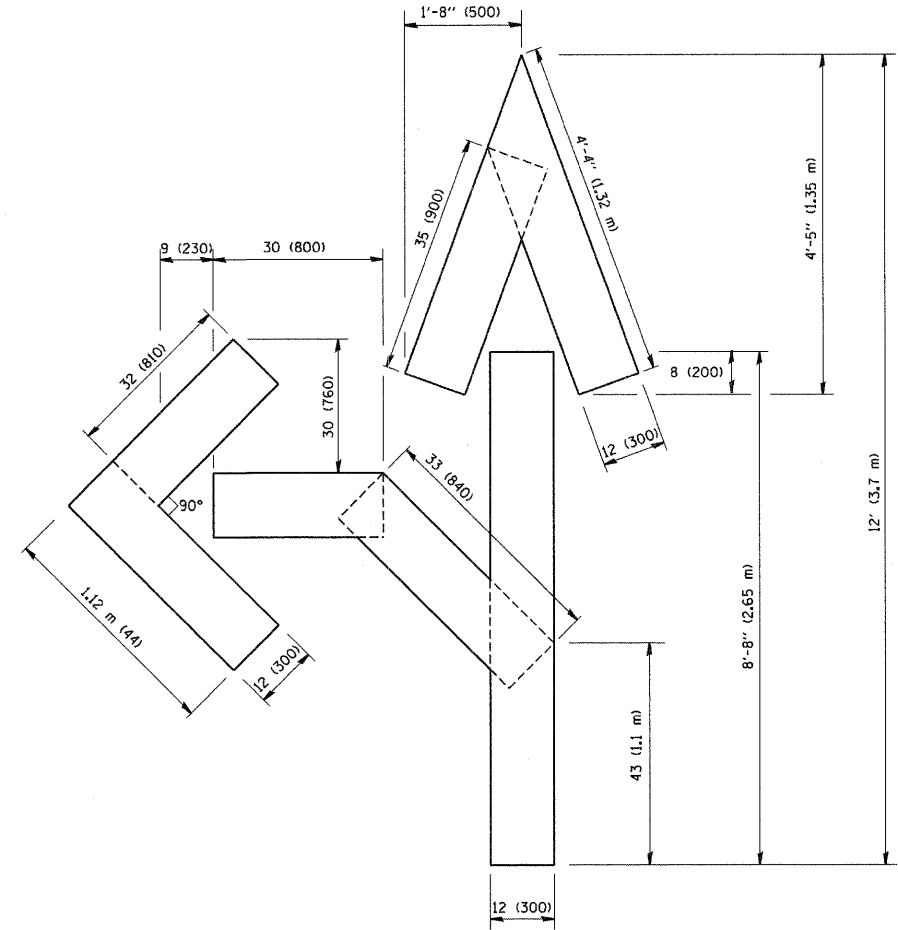
**TRAFFIC CONTROL AND PROTECTION AT TURN BAYS  
(TO REMAIN OPEN TO TRAFFIC)**

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

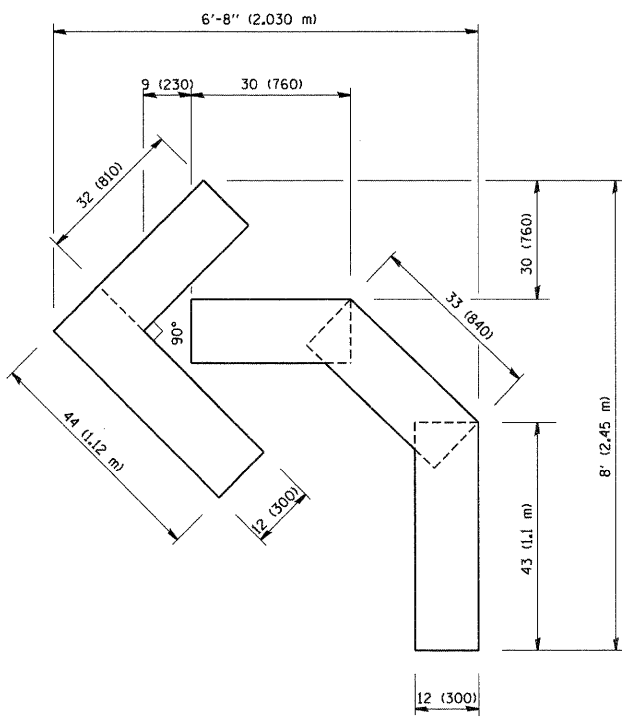
F.A.P. RTE. 330	SECTION 2010-135-1	COUNTY COOK	TOTAL SHEETS 101	SHEET NO. 68
TC-14			CONTRACT NO. 60N09	
FED. ROAD DIST. NO. 1 ILLINOIS FED. AID PROJECT				



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.

FILE NAME = W:\diststd\22x34\tcl6.dgn	USER NAME = geglienobt	DESIGNED -	REVISED - T. RAMMACHER 06-05-96	<b>STATE OF ILLINOIS DEPARTMENT OF TRANSPORTATION</b>	<b>PAVEMENT MARKING LETTERS AND SYMBOLS FOR TRAFFIC STAGING</b>			F.A.P. RTE. 330	SECTION 2010-135-I	COUNTY COOK	TOTAL SHEETS 101	SHEET NO. 69
	PLOT SCALE = 50,0000 "/ IN.	CHECKED -	REVISED - T. RAMMACHER 11-04-97					<b>TC-16</b>			<b>CONTRACT NO. 60N09</b>	
PLOT DATE = 1/4/2008	DATE - 09-18-94	REVISED - E. GOMEZ 08-28-00		SCALE: NONE	SHEET NO. 1	OF 1 SHEETS	STA.	TO STA.	FED. ROAD DIST. NO. 1 ILLINOIS FED. AID PROJECT			






**ROUTE MARKERS**

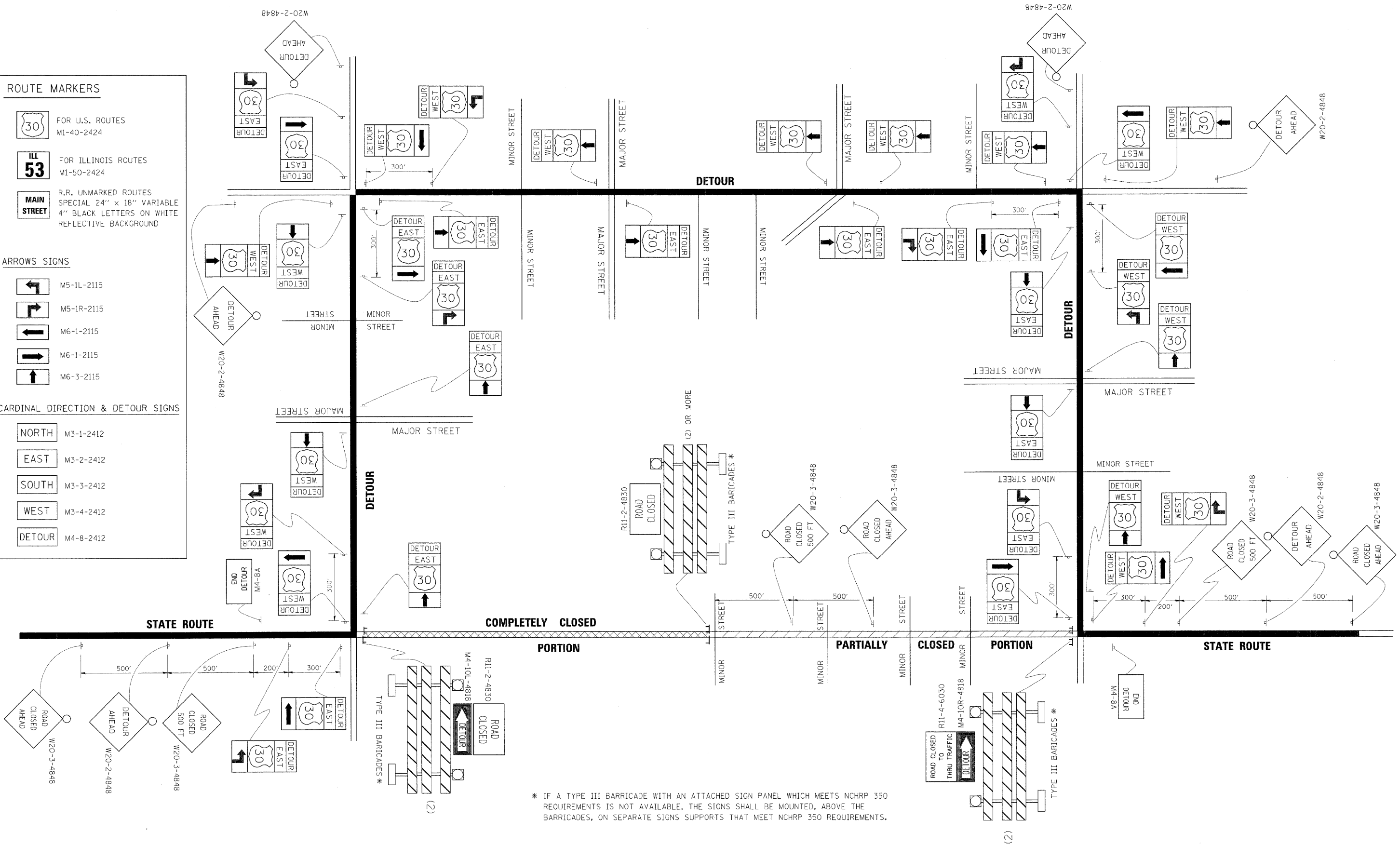
-  FOR U.S. ROUTES  
MI-40-2424
-  FOR ILLINOIS ROUTES  
MI-50-2424
-  R.R. UNMARKED ROUTES  
SPECIAL 24" x 18" VARIABLE  
4" BLACK LETTERS ON WHITE  
REFLECTIVE BACKGROUND

**ARROWS SIGNS**

-  M5-1L-2115
-  M5-1R-2115
-  M6-1-2115
-  M6-1-2115
-  M6-3-2115

**CARDINAL DIRECTION & DETOUR SIGNS**

-  NORTH M3-1-2412
-  EAST M3-2-2412
-  SOUTH M3-3-2412
-  WEST M3-4-2412
-  DETOUR M4-8-2412

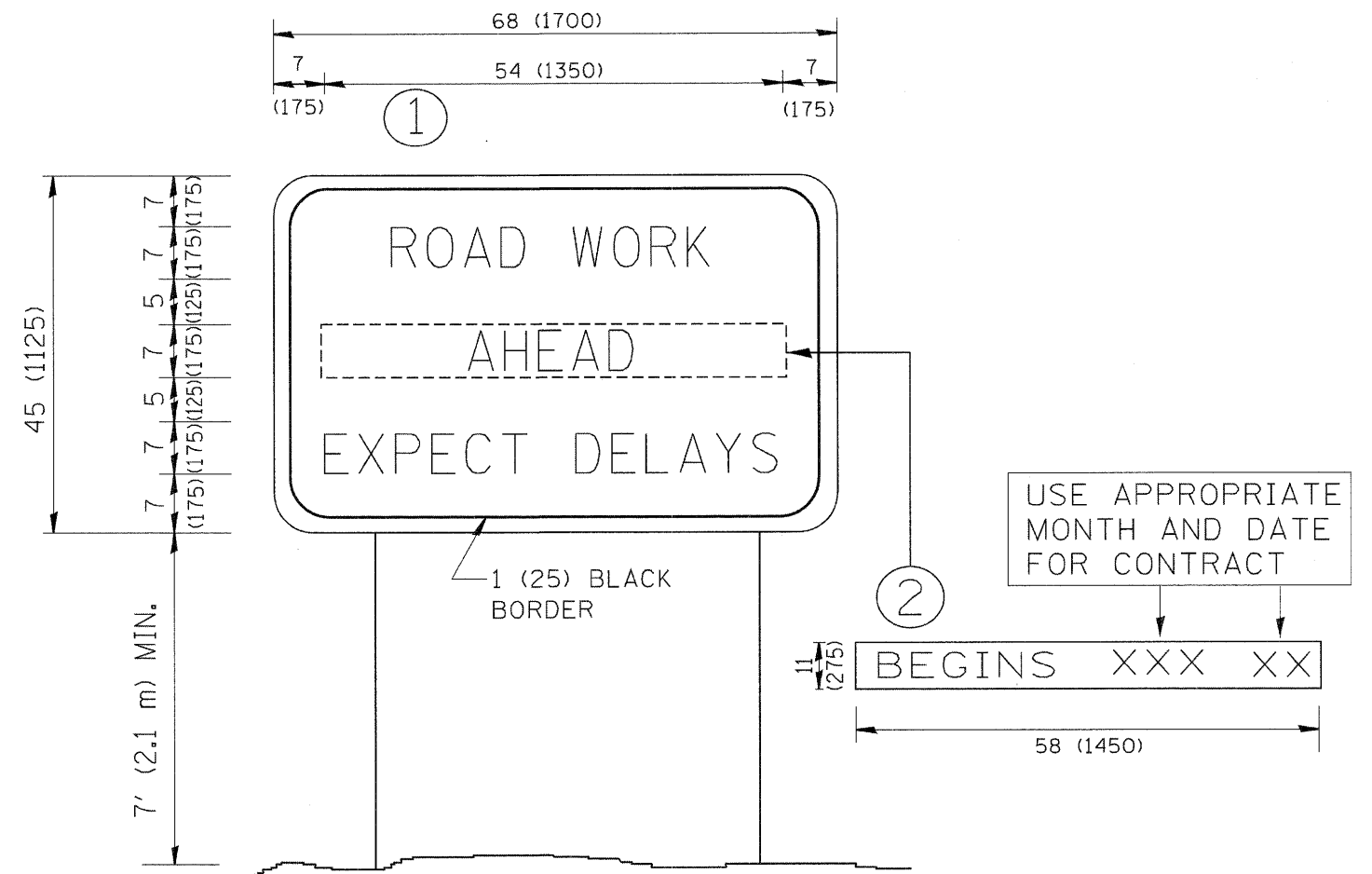


\* IF A TYPE III BARRICADE WITH AN ATTACHED SIGN PANEL WHICH MEETS NCHRP 350 REQUIREMENTS IS NOT AVAILABLE, THE SIGNS SHALL BE MOUNTED, ABOVE THE BARRICADES, ON SEPARATE SIGNS SUPPORTS THAT MEET NCHRP 350 REQUIREMENTS.

FILE NAME =	USER NAME = drivakosgn	DESIGNED -	REVISED - 10-18-02
c:\p\work\p\WIDOT\DRIVAKOSGN\NAN\20101018\3151221.dgn		DRAWN -	REVISED - R. BORO 09-14-09
	PLOT SCALE = 49.9999 / IN.	CHECKED -	REVISED -
	PLOT DATE = 9/14/2009	DATE -	REVISED -

**STATE OF ILLINOIS  
DEPARTMENT OF TRANSPORTATION**

<b>DETOUR SIGNING FOR CLOSING STATE HIGHWAYS</b>		F.A.P. RTE. 330	SECTION 2010-135-1	COUNTY COOK	TOTAL SHEETS 101	SHEET NO. 70
SCALE: NONE	SHEET NO. 1 OF 1 SHEETS	STA.	TO STA.	CONTRACT NO. 60N09		
FED. ROAD DIST. NO. 1 [ILLINOIS] FED. AID PROJECT						



**NOTES:**

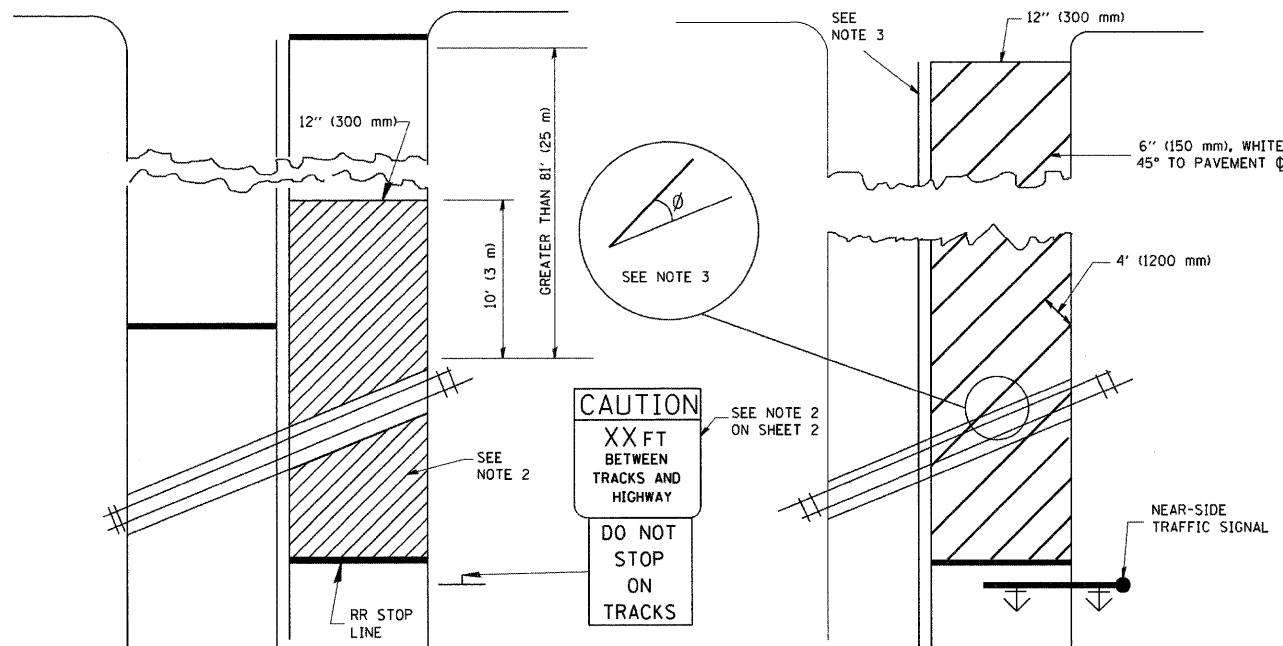
1. USE BLACK LETTERING ON ORANGE BACKGROUND.
2. ERECT SIGNS IN ADVANCE OF THE LOCATION FOR THE "ROAD CONSTRUCTION AHEAD" SIGN AT LOCATIONS AS DIRECTED BY THE ENGINEER.
3. ERECT SIGN ① WITH INSTALLED PANEL ② ONE WEEK PRIOR TO THE START OF CONSTRUCTION.
4. REMOVE PANEL ② SOON AFTER THE START OF CONSTRUCTION.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

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

FILE NAME = W:\distatd\22x34\tc22.dgn	USER NAME = gaglienobt	DESIGNED -	REVISED - R. MIRS 09-15-97	<b>STATE OF ILLINOIS DEPARTMENT OF TRANSPORTATION</b>	<b>ARTERIAL ROAD INFORMATION SIGN</b>			F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
		DRAWN -	REVISED - R. MIRS 12-11-97		330	2010-135-1	COOK	101	71			
		PLOT SCALE = 50.000' / IN.	REVISED - T. RAMMACHER 02-02-99		SCALE: NONE SHEET NO. 1 OF 1 SHEETS STA. TO STA.			TC-22		CONTRACT NO. 60N09		
		PLOT DATE = 1/4/2008	REVISED - C. JUICIUS 01-31-07		FED. ROAD DIST. NO. 1 ILLINOIS FED. AID PROJECT							

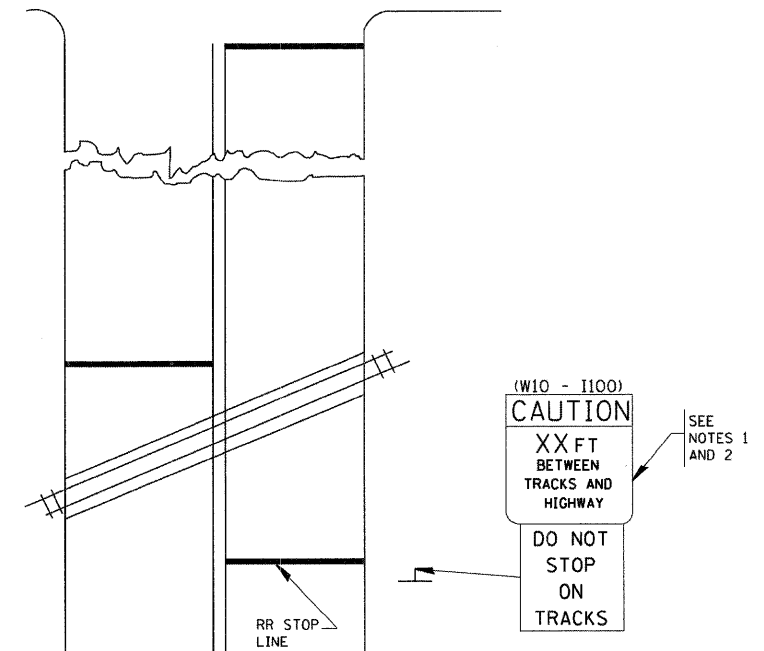
WITH INTERSECTION TRAFFIC SIGNALS

WITH NEAR-SIDE TRAFFIC SIGNALS



WITH NONSIGNALIZED INTERSECTION

81' (25 m) OR LESS TO CLOSEST RAIL



- NOTES:
- PAVEMENT MARKINGS TO BE INSTALLED ONLY ON APPROACHES TO INTERSECTIONS CONTROLLED BY TRAFFIC SIGNALS WHICH ARE INTERCONNECTED WITH THE RAILROAD WARNING SIGNALS.
  - WHERE NEAR-SIDE TRAFFIC SIGNALS ARE USED, THE PAVEMENT MARKINGS EXTENDS TO THE INTERSECTION.
  - WHERE THE ANGLE BETWEEN THE DIAGONAL STRIPES AND THE TRACK ( $\phi$ ) WOULD BE LESS THAN APPROXIMATELY 20°, THE STRIPES SHOULD BE SLOPED IN THE OPPOSITE DIRECTION FROM THAT SHOWN.

- NOTE 1:
- DISTANCE TO BE SHOWN ON SIGN MEASURED FROM A POINT 6 FEET (1.8 m) FROM THE RAIL CLOSEST TO THE INTERSECTION TO THE STOP LINE OR CROSSWALK, WHICHEVER IS CLOSEST, ROUNDED DOWN TO THE NEAREST 5 FEET (1.5 m). WHERE THERE IS NO STOP LINE, MEASURE TO POINT WHERE THE DRIVER HAS A VIEW OF APPROACHING TRAFFIC.
  - THE CLEARANCE SIGN IS ALSO TO BE USED AS AN INTERIM MEASURE AT LOCATIONS WITH INTERCONNECTED INTERSECTION TRAFFIC SIGNALS WHERE IT IS PLANNED TO CHANGE THEM TO NEAR-SIDE SIGNALS AT A FUTURE TIME. IN THIS CASE, THE DISTANCE TO BE SHOWN ON THE SIGN IS MEASURED FROM THE EDGE OF THE STRIPED-OUT AREA INSTEAD OF 6-FEET FROM THE RAIL. THE SIGN IS TO BE REMOVED WHEN THE NEAR-SIDE SIGNALS ARE INSTALLED AND THE PAVEMENT MARKINGS EXTEND TO THE INTERSECTION.

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

FILE NAME = W:\diststd\22x34\tc23.dgn	USER NAME = gaglianobt	DESIGNED -	REVISED - 01-01-07
		DRAWN -	REVISED -
	PLOT SCALE = 50,000 / IN.	CHECKED -	REVISED -
	PLOT DATE = 1/4/2008	DATE -	REVISED -

STATE OF ILLINOIS  
DEPARTMENT OF TRANSPORTATION

TYPICAL SUPPLEMENTAL SIGNING AND PAVEMENT MARKING  
TREATMENT FOR RAILROAD CROSSINGS

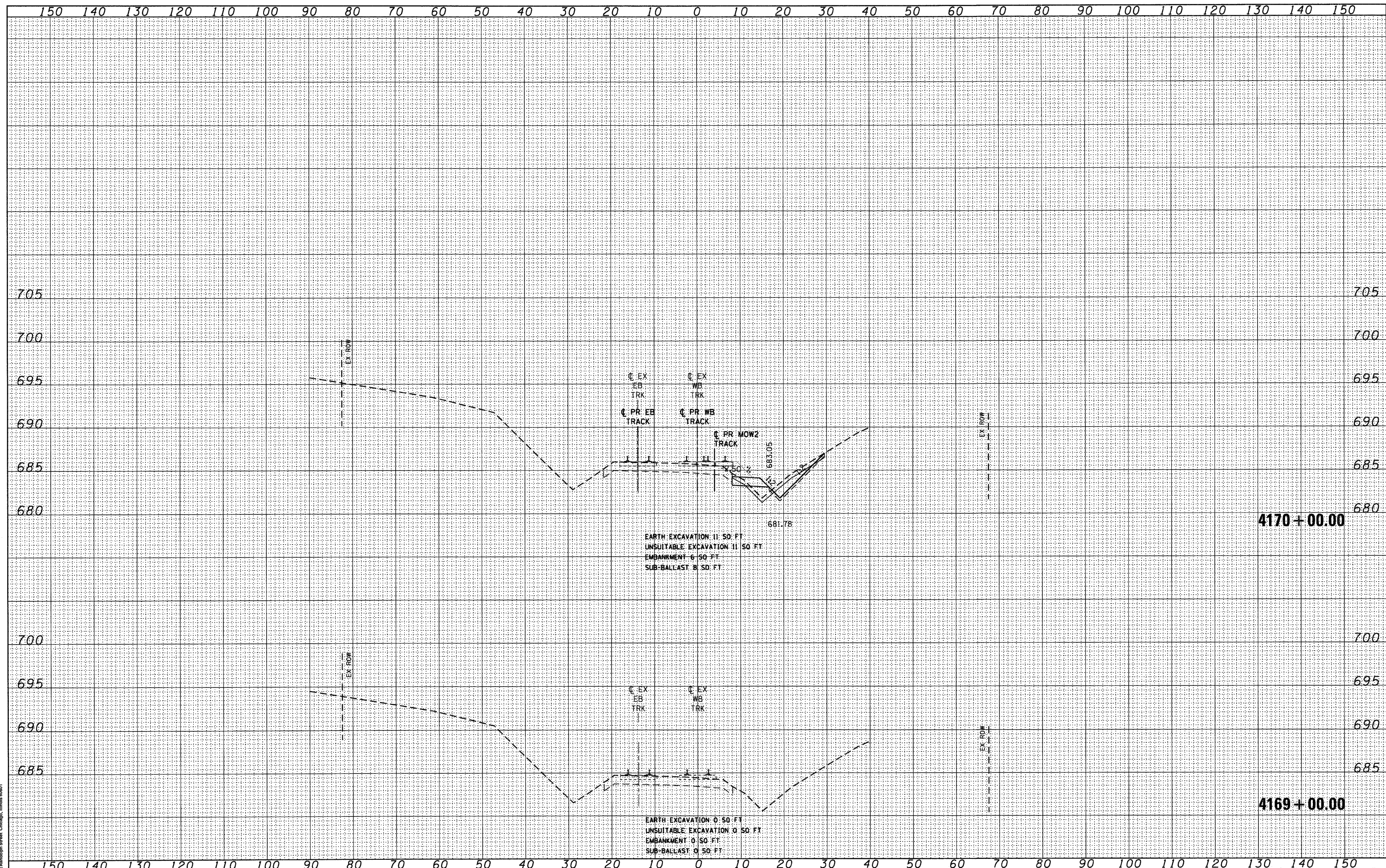
SCALE: NONE SHEET NO. 1 OF 1 SHEETS STA. TO STA.

F.A.P. RTE. 330	SECTION 2010-135-1	COUNTY COOK	TOTAL SHEETS 101	SHEET NO. 72
TC-23			CONTRACT NO. 60N09	
FED. ROAD DIST. NO. 1 ILLINOIS FED. AID PROJECT				



DATE	
BY	
FINAL SURVEY	
EXCISED	
PLOTTED	
TEMPLATE	
NOTE BOOK	
AREAS	
CHECKED	

DATE	
BY	
ORIGINAL SURVEY	
EXCISED	
PLOTTED	
TEMPLATE	
NOTE BOOK	
AREAS	
CHECKED	



McDonough Associates Inc.  
100 East Randolph Street, Chicago, Illinois 60601

FILE NAME =  
D:\G089-SHT-XSHT01.dgn

USER NAME = TKluogel  
 DESIGNED - BFH  
 DRAWN - BFH  
 CHECKED - MJT  
 DATE - 12/17/10

REVISED -  
 REVISED -  
 REVISED -  
 REVISED -

STATE OF ILLINOIS  
DEPARTMENT OF TRANSPORTATION

METRA RAILROAD CROSS SECTIONS

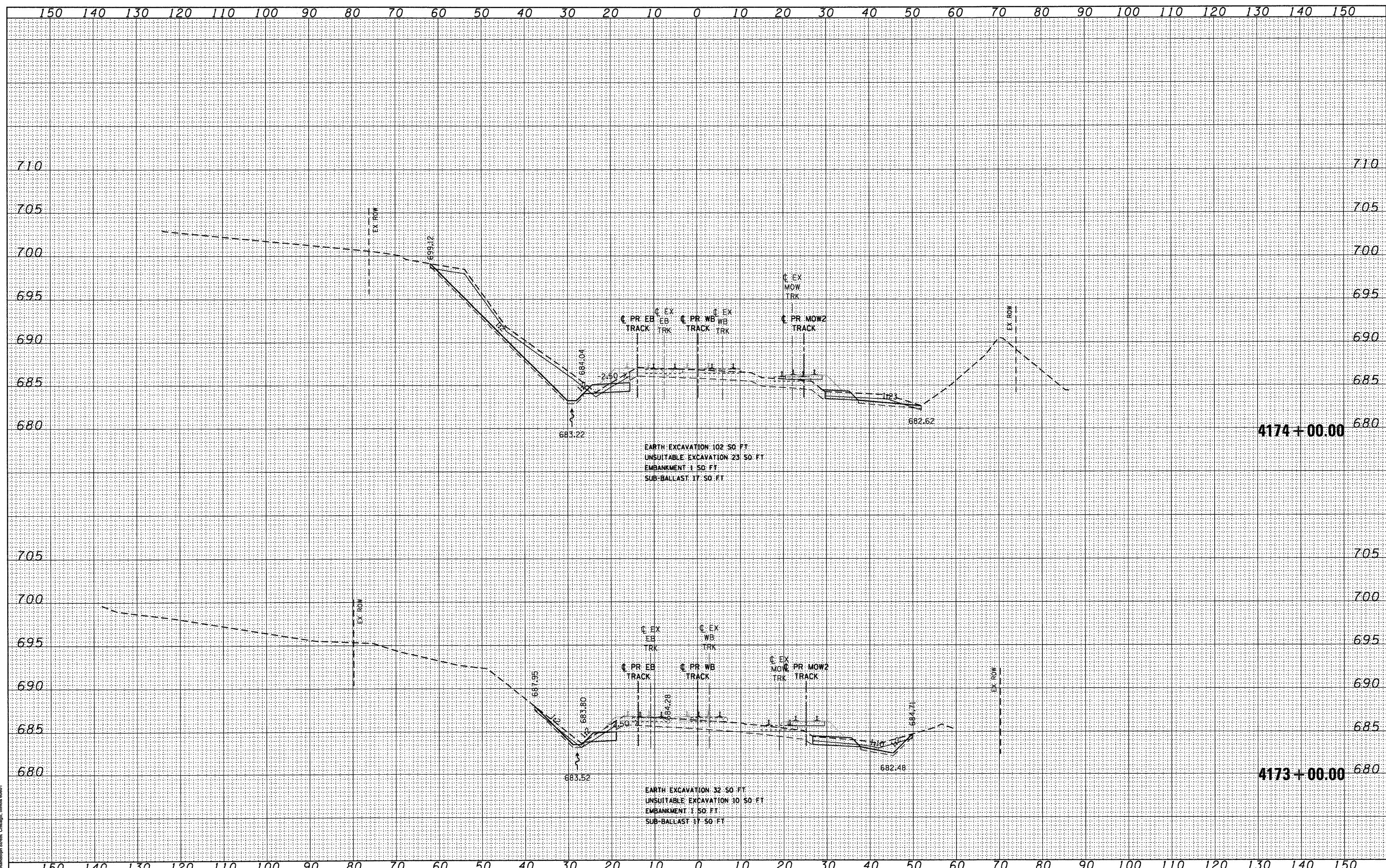
SCALE: 1"=10'H/1"=5'V SHEET NO. 1 OF 29 SHEETS STA. 4169+00.00 TO STA. 4170+00.00

F.A.P. RTE. 330	SECTION 2010-135-1	COUNTY COOK	TOTAL SHEETS 101	SHEET NO. 73
<b>XS-R01</b>		CONTRACT NO. 60N09		
ILLINOIS FED. AID PROJECT				



DATE	
BY	
SUBMITTED	
PLOTTED	
TEMPLATE	
AREAS	
CHECKED	
NO.	

DATE	
BY	
SUBMITTED	
PLOTTED	
TEMPLATE	
AREAS	
CHECKED	
NO.	



McDonough Associates Inc.  
100 East Randolph Street, Chicago, Illinois 60601

FILE NAME =	D:\16209-SHT-XSSH1.dgn
USER NAME =	TK\uegal
DESIGNED -	BFH
DRAWN -	BFH
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DATE -	12/17/10
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REVISED -	
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DESIGNED -	BFH	REVISED -	
DRAWN -	BFH	REVISED -	
CHECKED -	MJT	REVISED -	
DATE -	12/17/10	REVISED -	

**STATE OF ILLINOIS  
DEPARTMENT OF TRANSPORTATION**

**METRA RAILROAD CROSS SECTIONS**

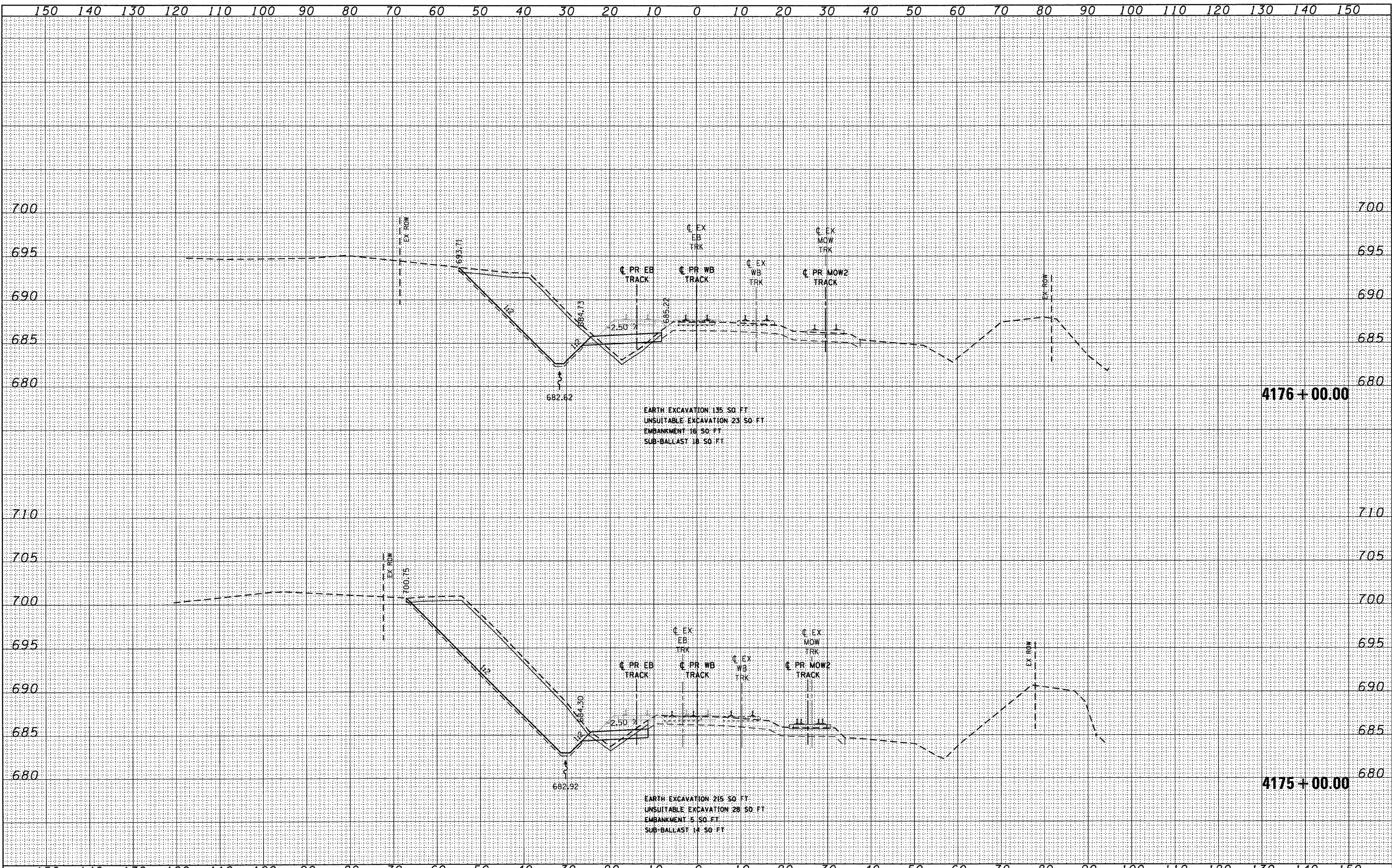
SCALE: 1"=10'H 1/4"=5' V SHEET NO. 3 OF 29 SHEETS STA. 4173+00.00 TO STA. 4174+00.00

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
330	2010-135-1	COOK	101	75
<b>XS-R03</b>			CONTRACT NO. 60N09	
ILLINOIS FED. AID PROJECT				

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

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

**McDonough Associates Inc.**  
Engineers / Architects  
130 East Randolph Street, Chicago, Illinois 60601



FILE NAME =	USER NAME = TK\uegl	DESIGNED - BFH	REVISED -
D160N09-SHT-XSHT01.dgn		DRAWN - BFH	REVISED -
		CHECKED - MJT	REVISED -
		DATE - 12/17/10	REVISED -

PLOT SCALE = 1:10
PLOT DATE = 12/29/2010

DESIGNED - BFH	REVISED -
DRAWN - BFH	REVISED -
CHECKED - MJT	REVISED -
DATE - 12/17/10	REVISED -

**STATE OF ILLINOIS  
DEPARTMENT OF TRANSPORTATION**

**METRA RAILROAD CROSS SECTIONS**

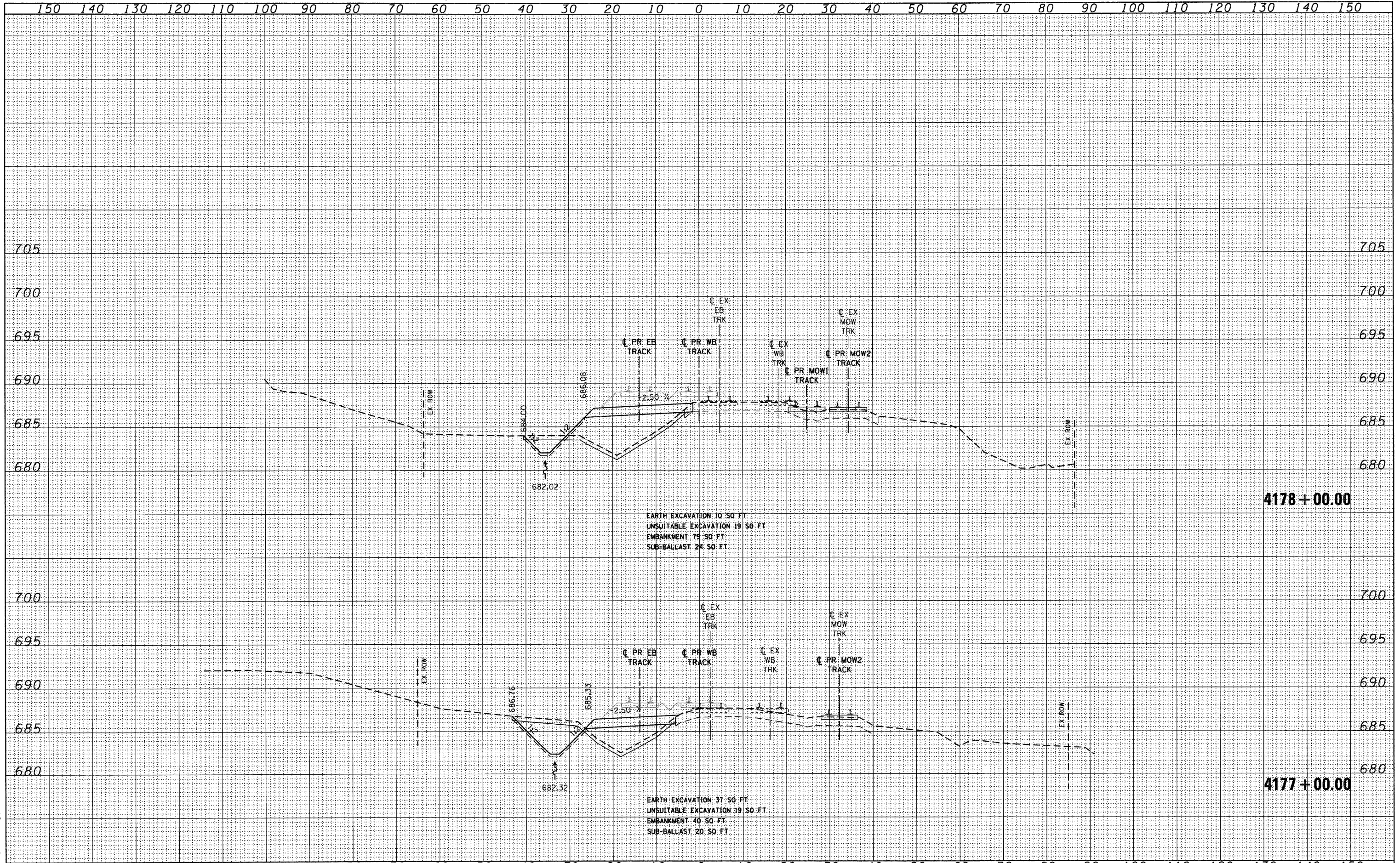
SCALE: 1"=10'H 1"=5'V SHEET NO. 4 OF 29 SHEETS STA. 4175+00.00 TO STA. 4176+00.00

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
330	2010-135-1	COOK	101	76
<b>XS-R04</b>		CONTRACT NO. 60N09	ILLINOIS FED. AID PROJECT	

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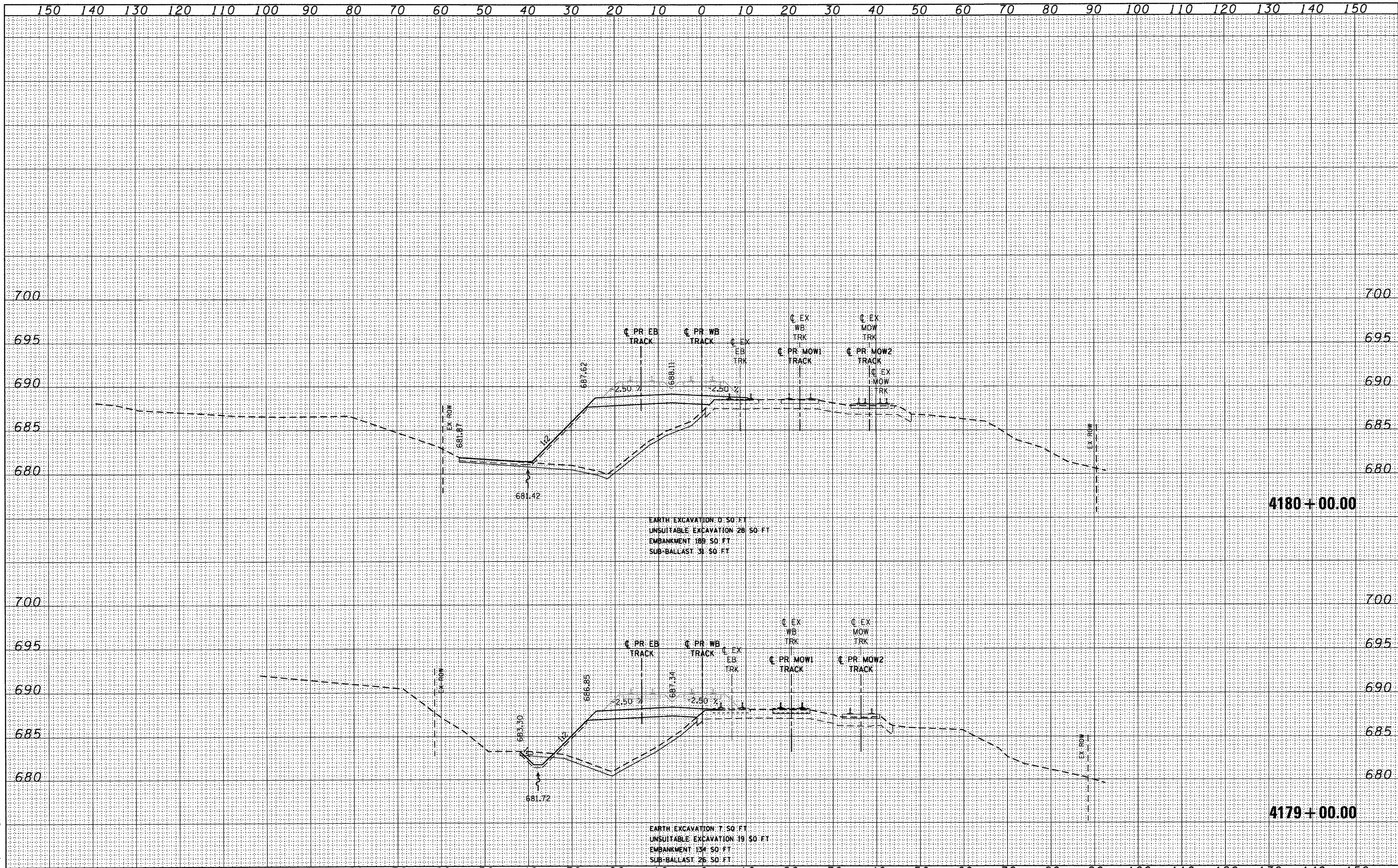
DATE	
BY	
SURVEYED	
PLOTTED	
TEMPLATE	
AREAS	
CHECKED	
ORIGINAL SURVEY	
NOTE BOOK	
NO.	

McDonough Associates Inc.  
501 East Randolph Street Chicago, Illinois 60601



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

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



EARTH EXCAVATION 0 SQ FT  
 UNSUITABLE EXCAVATION 28 SQ FT  
 EMBANKMENT 189 SQ FT  
 SUB-BALLAST 31 SQ FT

EARTH EXCAVATION 7 SQ FT  
 UNSUITABLE EXCAVATION 19 SQ FT  
 EMBANKMENT 134 SQ FT  
 SUB-BALLAST 26 SQ FT

McDonough Associates Inc.  
 150 East Randolph Street, Chicago, Illinois 60601

FILE NAME = D:\62089-SHT-XSSH101.dgn  
 USER NAME = TK\uegal

DESIGNED - BFH  
 DRAWN - BFH  
 CHECKED - MJT  
 DATE - 12/17/10

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STATE OF ILLINOIS  
 DEPARTMENT OF TRANSPORTATION

METRA RAILROAD CROSS SECTIONS

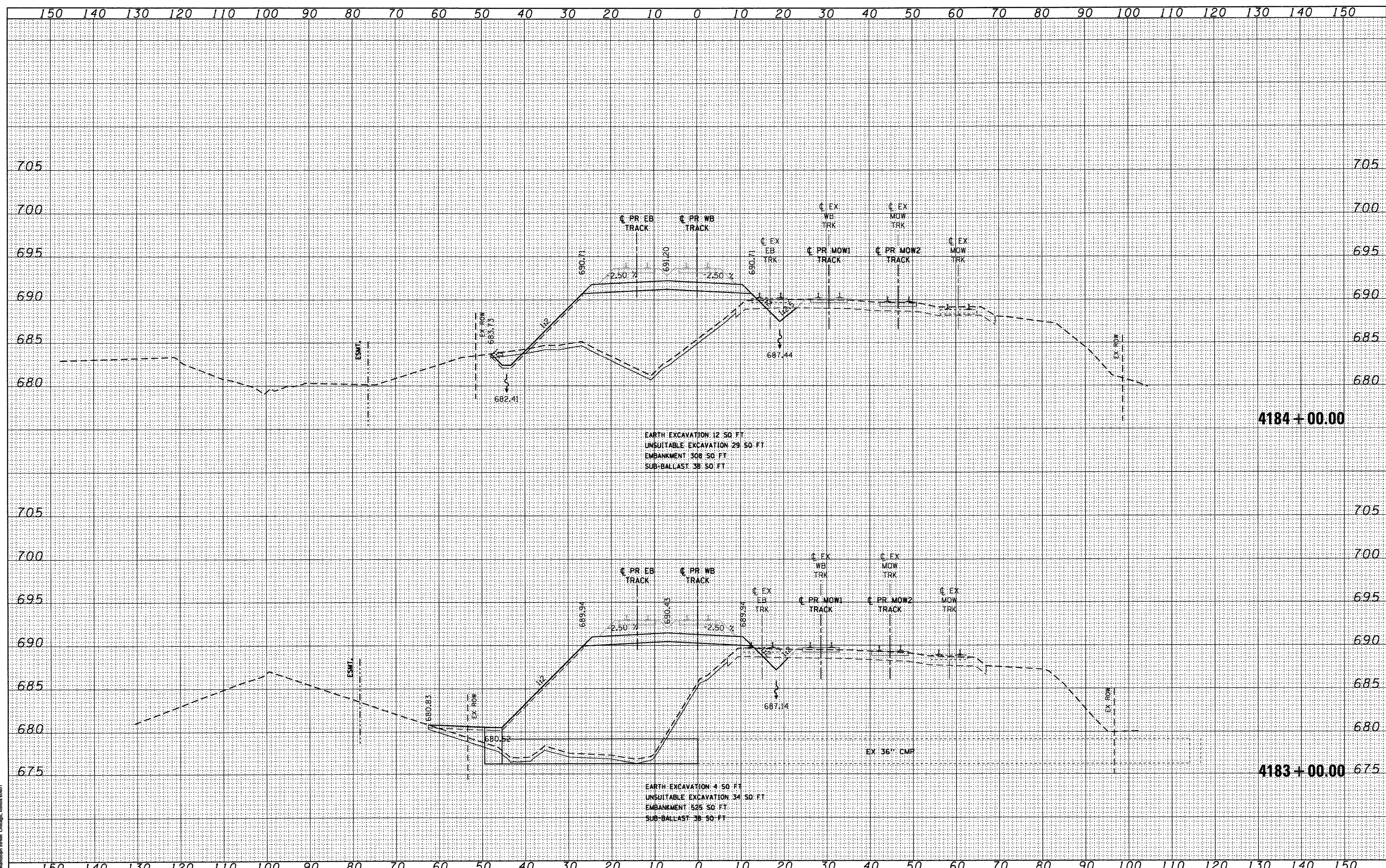
SCALE: 1"=10'H/1"=5' V SHEET NO. 6 OF 29 SHEETS STA. 4179+00.00 TO STA. 4180+00.00

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
330	2010-135-1	COOK	101	78
XS-R06			CONTRACT NO. 60N09	
ILLINOIS FED. AID PROJECT				



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



EARTH EXCAVATION 12 SQ FT  
 UNSUITABLE EXCAVATION 29 SQ FT  
 EMBANKMENT 308 SQ FT  
 SUB-BALLAST 38 SQ FT

EARTH EXCAVATION 4 SQ FT  
 UNSUITABLE EXCAVATION 34 SQ FT  
 EMBANKMENT 525 SQ FT  
 SUB-BALLAST 38 SQ FT

McDonough Associates Inc.  
 100 East Randolph Street Chicago, Illinois 60601

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DRAWN -	BFH
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PLOT SCALE =	1"=10'
PLOT DATE =	12/29/2010

DESIGNED -	BFH	REVISED -	
DRAWN -	BFH	REVISED -	
CHECKED -	MJT	REVISED -	
DATE -	12/17/10	REVISED -	

STATE OF ILLINOIS  
 DEPARTMENT OF TRANSPORTATION

METRA RAILROAD CROSS SECTIONS

SCALE: 1"=10'H/1"=5'V SHEET NO. 8 OF 29 SHEETS STA. 4183+00.00 TO STA. 4184+00.00

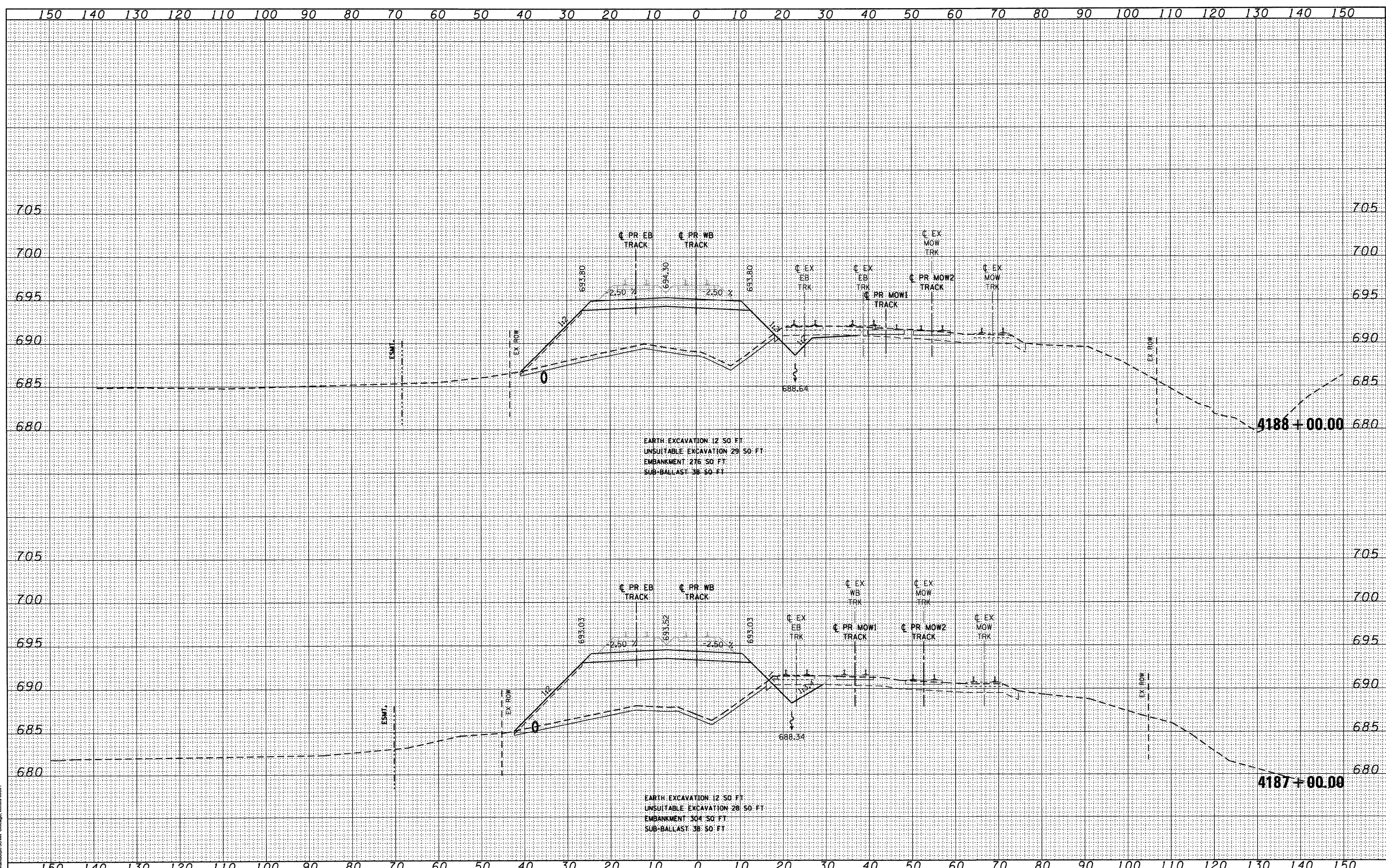
F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
330	2010-135-1	COOK	101	80
<b>XS-R08</b>		CONTRACT NO.	60N09	
ILLINOIS FED. AID PROJECT				





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



EARTH EXCAVATION 12 SO FT  
 UNSUITABLE EXCAVATION 29 SO FT  
 EMBANKMENT 276 SO FT  
 SUB-BALLAST 38 SO FT

EARTH EXCAVATION 12 SO FT  
 UNSUITABLE EXCAVATION 28 SO FT  
 EMBANKMENT 304 SO FT  
 SUB-BALLAST 38 SO FT

McDonough Associates Inc.  
 130 East Randolph Street, Chicago, Illinois 60601

FILE NAME =	D:\16\N09-SHT-XSSHT01.dgn
USER NAME =	TKIuegel
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DRAWN -	BFH
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REVISIONS	
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DESIGNED -	BFH	REVISED -	
DRAWN -	BFH	REVISED -	
CHECKED -	MJT	REVISED -	
DATE -	12/17/10	REVISED -	

STATE OF ILLINOIS  
 DEPARTMENT OF TRANSPORTATION

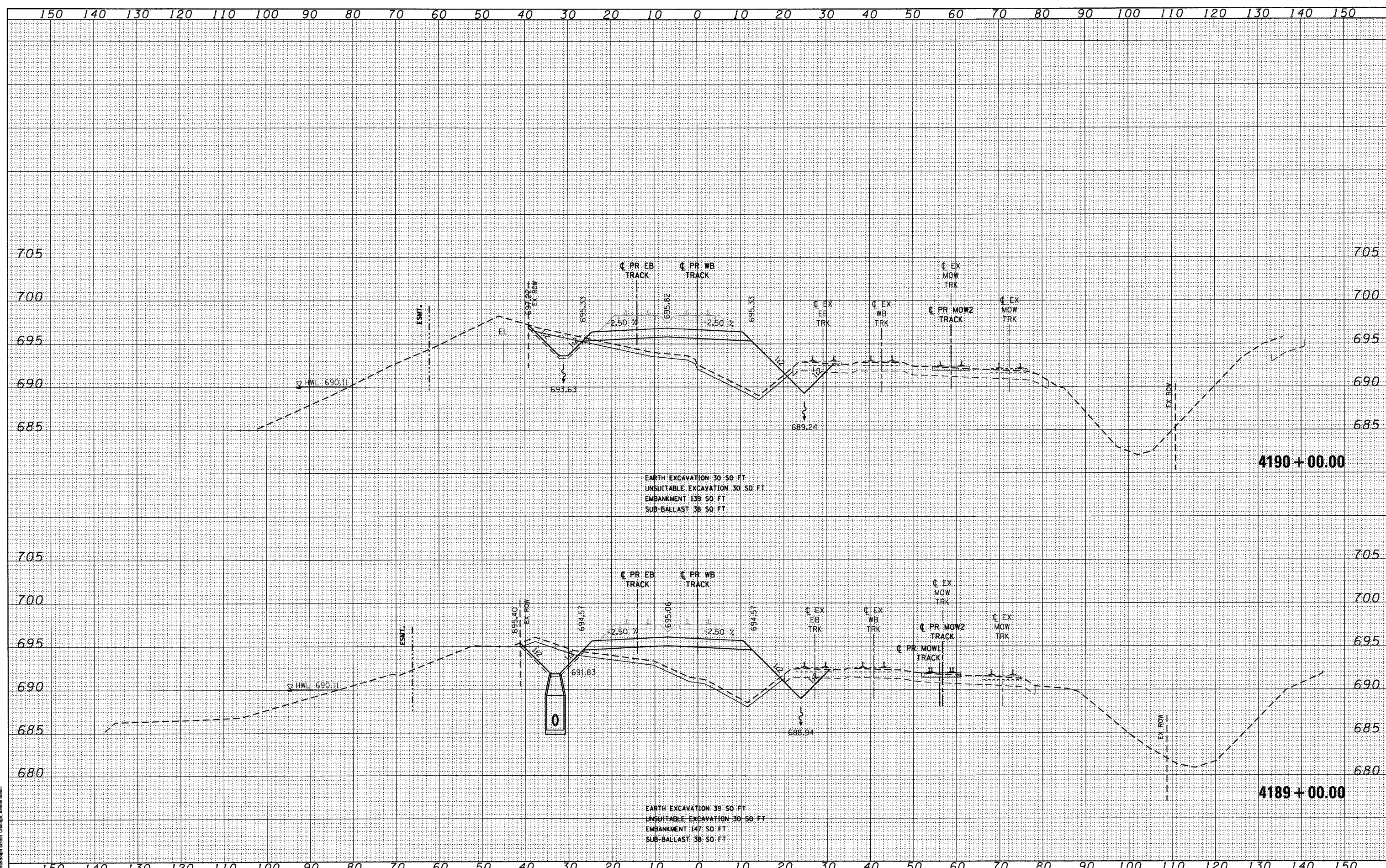
METRA RAILROAD CROSS SECTIONS

SCALE: 1"=10'H 1"=5' V SHEET NO. 10 OF 29 SHEETS STA. 4187+00.00 TO STA. 4188+00.00

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
330	2010-135-I	COOK	101	82
XS-R10			CONTRACT NO. 60N09	
ILLINOIS FED. AID PROJECT				

DATE	
BY	
SURVEYED	
PLOTTED	
TEMPLATE	
NOTE BOOK	
AREAS CHECKED	
NO.	

DATE	
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SURVEYED	
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TEMPLATE	
NOTE BOOK	
AREAS CHECKED	
NO.	



McDonough Associates Inc.  
500 East Randolph Street, Chicago, Illinois 60601

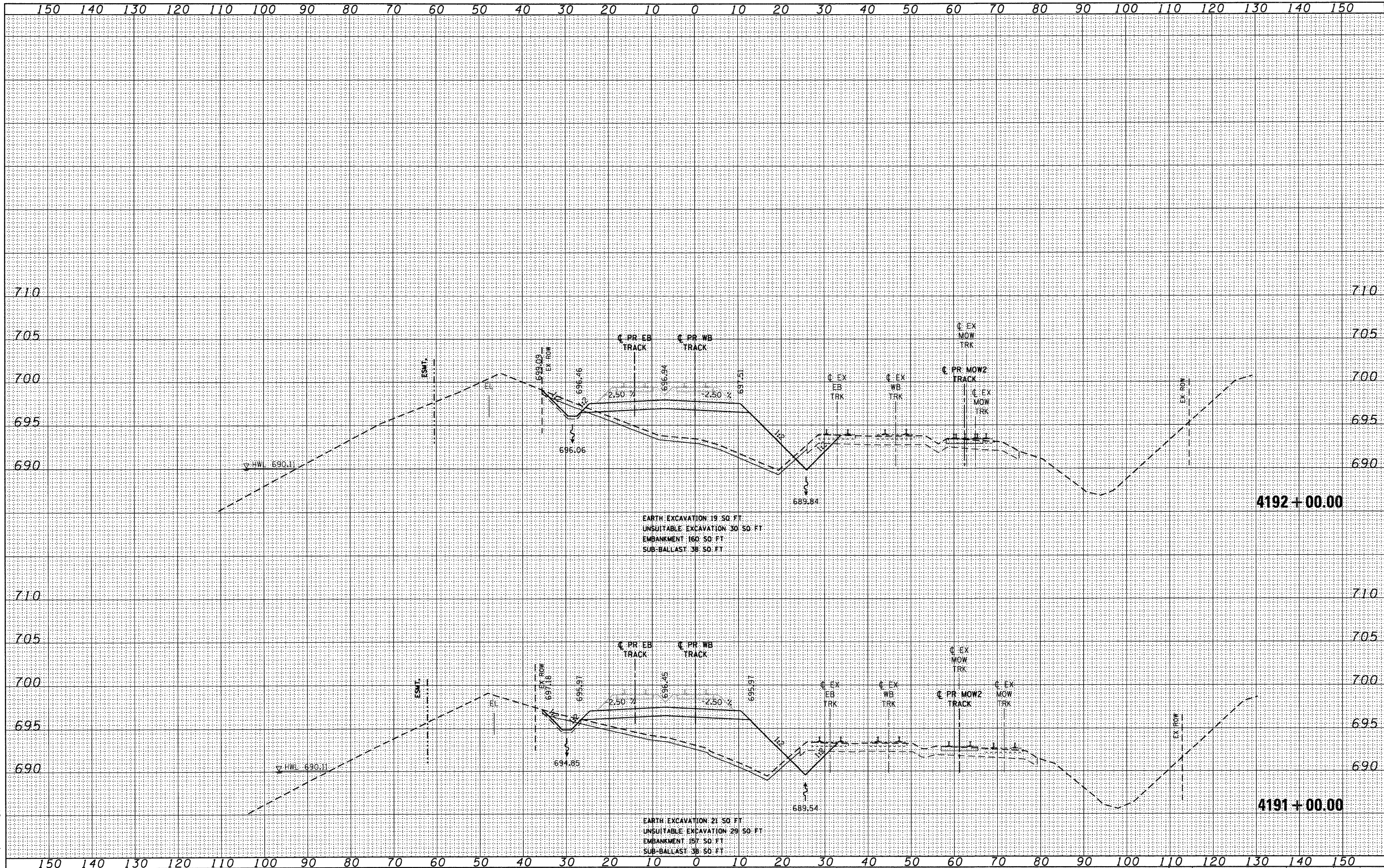
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PLOT SCALE = 1:10	CHECKED - MJT	REVISIED -	SCALE: 1"=10'H 1"=5' V			SHEET NO. 11 OF 29 SHEETS	STA. 4189+00.00 TO STA. 4190+00.00	<b>XS-R11</b>		CONTRACT NO. 60N09
PLOT DATE = 12/29/2010	DATE - 12/17/10	REVISIED -	ILLINOIS FED. AID PROJECT							

DATE	
BY	
SURVEYED	
PROFITED	
NOTE BOOK	
AREAS CHECKED	

DATE	
BY	
SURVEYED	
PROFITED	
NOTE BOOK	
AREAS CHECKED	



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 DESIGNED - BFH  
 DRAWN - BFH  
 CHECKED - MJT  
 PLOT SCALE = 1:10  
 PLOT DATE = 12/29/2010  
 REVISIONS:  
 REVISION NO. DATE BY  
 1 12/17/10 BFH



STATE OF ILLINOIS  
 DEPARTMENT OF TRANSPORTATION

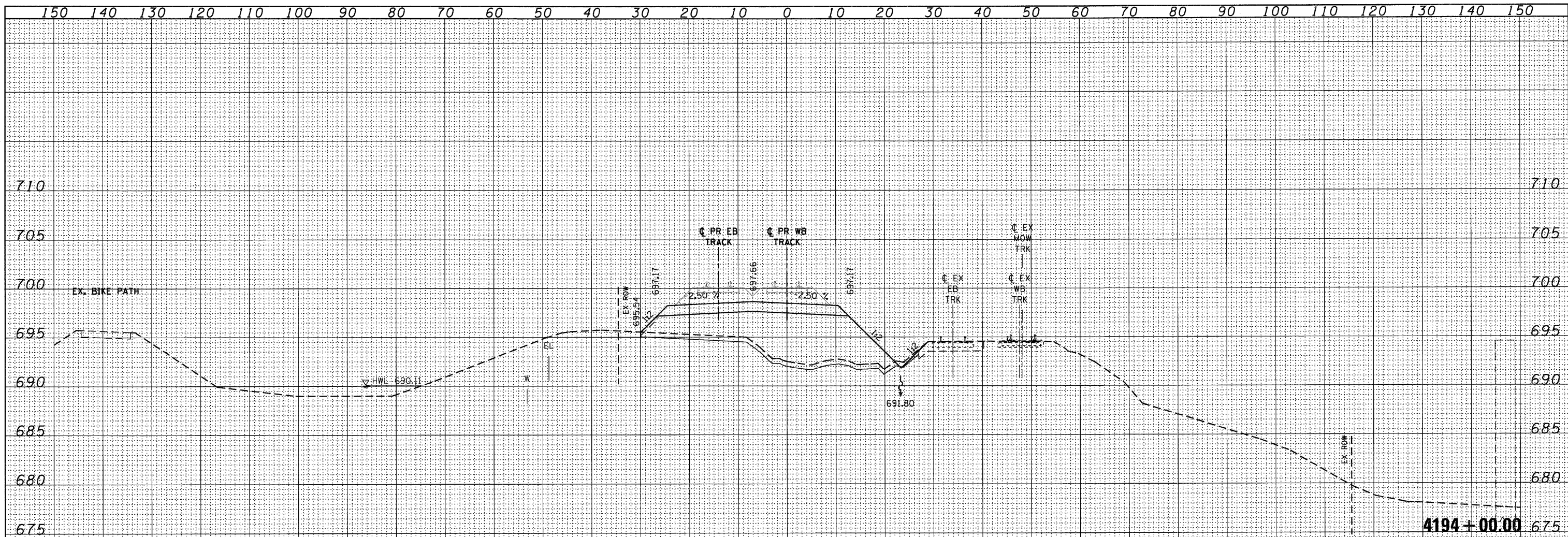
METRA RAILROAD CROSS SECTIONS

SCALE: 1"=10'H V=5' H SHEET NO. 12 OF 29 SHEETS STA. 4191+00.00 TO STA. 4192+00.00

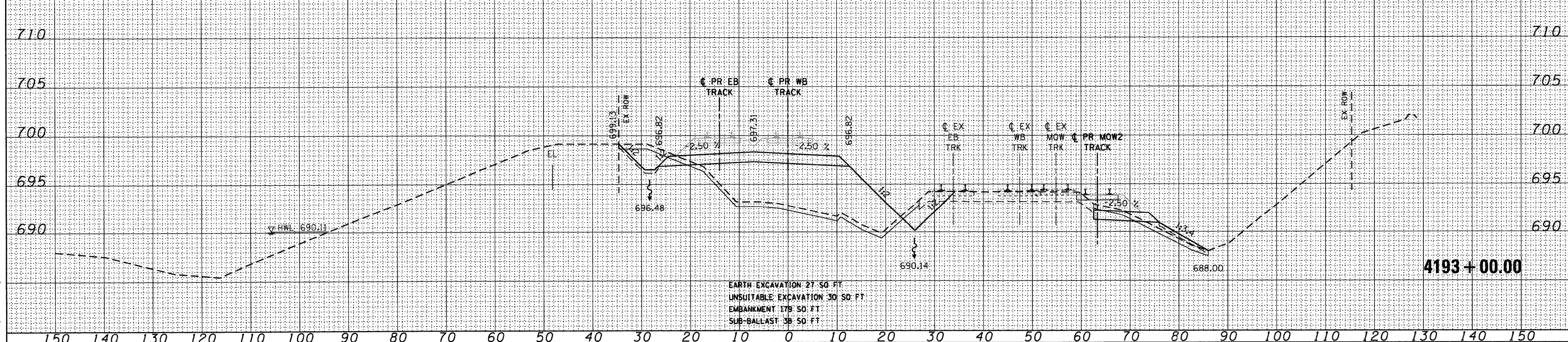
F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
330	2010-135-1	COOK	101	84
XS-R12		CONTRACT NO. 60N09		
ILLINOIS FED. AID PROJECT				

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

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



EARTH EXCAVATION 0 SO. FT.  
 UNSUITABLE EXCAVATION 28 SO. FT.  
 EMBANKMENT 191 SO. FT.  
 SUB-BALLAST 38 SO. FT.



EARTH EXCAVATION 27 SO. FT.  
 UNSUITABLE EXCAVATION 30 SO. FT.  
 EMBANKMENT 178 SO. FT.  
 SUB-BALLAST 38 SO. FT.

McDonough Associates Inc.  
 180 East Randolph Street, Chicago, Illinois 60601

FILE NAME =	D:\160809-SHT-XSSHT01.dgn
USER NAME =	TKLuegal
DESIGNED -	BFH
DRAWN -	BFH
CHECKED -	MJT
DATE -	12/29/2010

DESIGNED -	BFH
DRAWN -	BFH
CHECKED -	MJT
DATE -	12/17/10

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REVISED -	
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STATE OF ILLINOIS  
 DEPARTMENT OF TRANSPORTATION

METRA RAILROAD CROSS SECTIONS

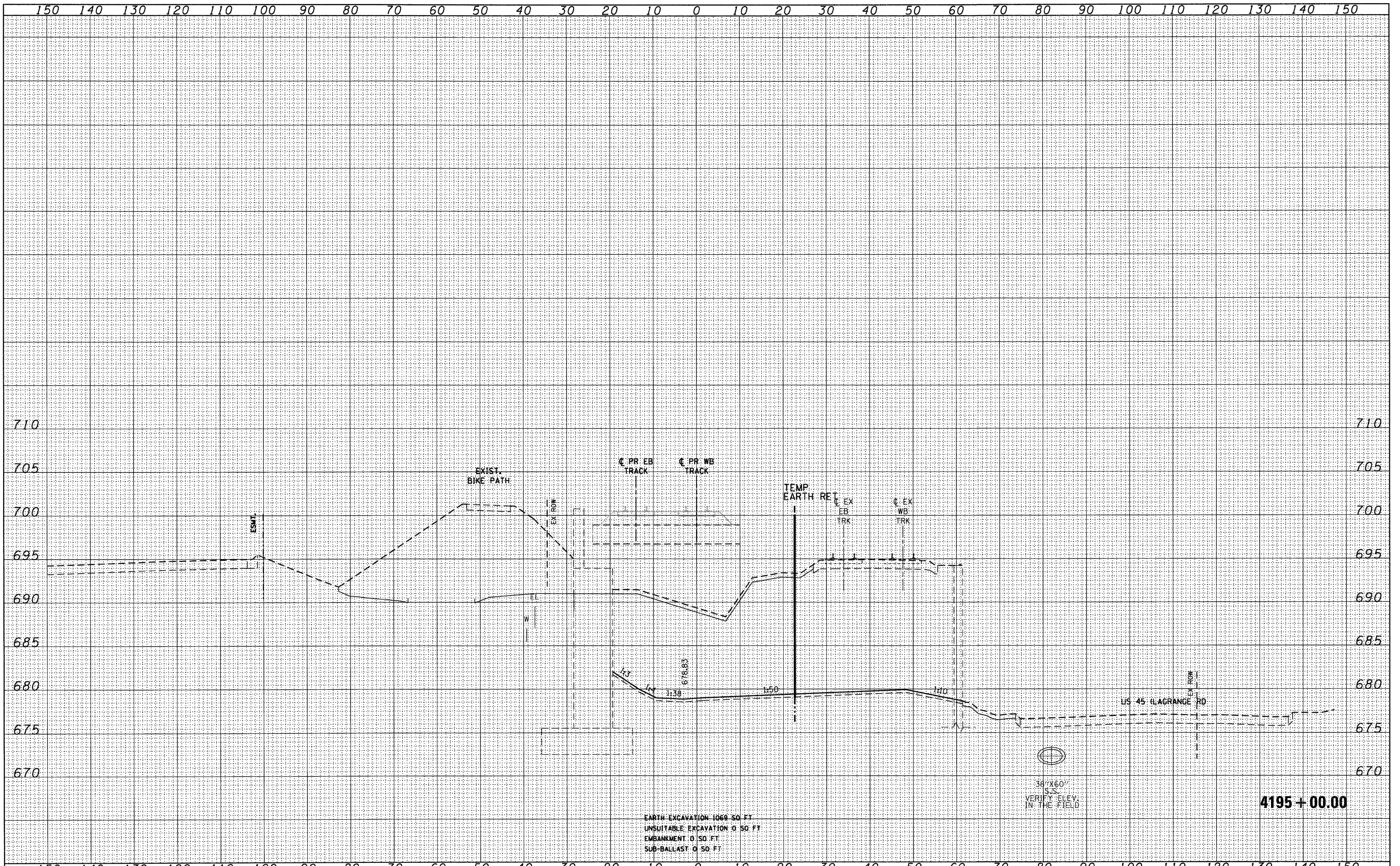
SCALE: 1"=10' HORIZ. 1"=5' VERT. SHEET NO. 13 OF 29 SHEETS STA. 4193+00.00 TO STA. 4194+00.00

F.A.P. R.T.E.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
330	2010-135-1	COOK	101	85
XS-R13		CONTRACT NO. 60N09		
ILLINOIS FED. AID PROJECT				

DATE	
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CHECKED	
PLOTTED	
TEMPLATE	
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AREAS CHECKED	
FINAL SURVEY	
NOTE BOOK	
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DATE	
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DESIGNED	
DRAWN	
CHECKED	
PLOTTED	
TEMPLATE	
AREAS	
AREAS CHECKED	
ORIGINAL SURVEY	
NOTE BOOK	
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McDonough Associates Inc.  
138 East Randolph Street, Chicago, Illinois 60601



FILE NAME	D:\0809-SHT-XSSHT01.dgn
USER NAME	TKIuegel
DESIGNED	BFH
DRAWN	BFH
CHECKED	MJT
DATE	12/17/10
PLLOT SCALE	1:10
PLLOT DATE	12/29/2010

DESIGNED	BFH	REVISED	-
DRAWN	BFH	REVISED	-
CHECKED	MJT	REVISED	-
DATE	12/17/10	REVISED	-

**STATE OF ILLINOIS**  
**DEPARTMENT OF TRANSPORTATION**

**METRA RAILROAD CROSS SECTIONS**

SCALE: 1"=10'H/1"=5'V SHEET NO. 14 OF 29 SHEETS STA. 4195+00.00 TO STA. 4195+00.00

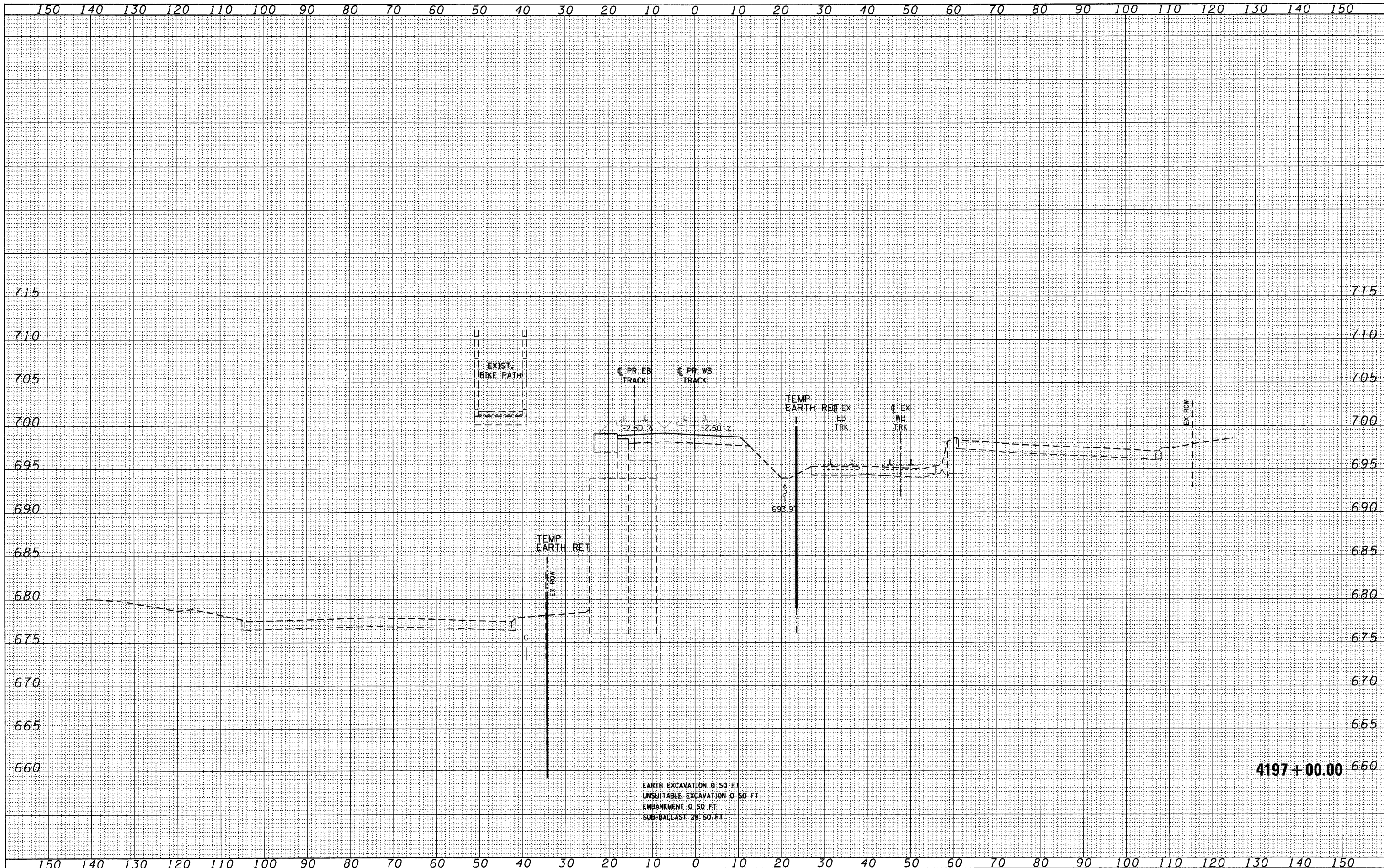
F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
330	2010-135-I	COOK	101	86
<b>XS-R14</b>		CONTRACT NO. 60N09		
ILLINOIS FED. AID PROJECT				

**4195 + 00.00**



DATE	
BY	
SURVEYED	
PLOTTED	
TEMPLATE	
AREAS	
CHECKED	
NO.	

DATE	
BY	
SURVEYED	
PLOTTED	
TEMPLATE	
AREAS	
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McDonough Associates Inc.  
190 East Randolph Street, Chicago, Illinois 60601

FILE NAME =	D:\62089-SHT-KSSH\T01.dgn
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USER NAME =	Tkluegel
DESIGNED -	BFH
DRAWN -	BFH
CHECKED -	MJT
DATE -	12/17/10

REVISED -	
REVISED -	
REVISED -	
REVISED -	

STATE OF ILLINOIS  
DEPARTMENT OF TRANSPORTATION

SCALE: 1"=10' H<sub>1</sub>"=5' V  
SHEET NO. 16 OF 29 SHEETS  
STA. 4197+00.00 TO STA. 4197+00.00

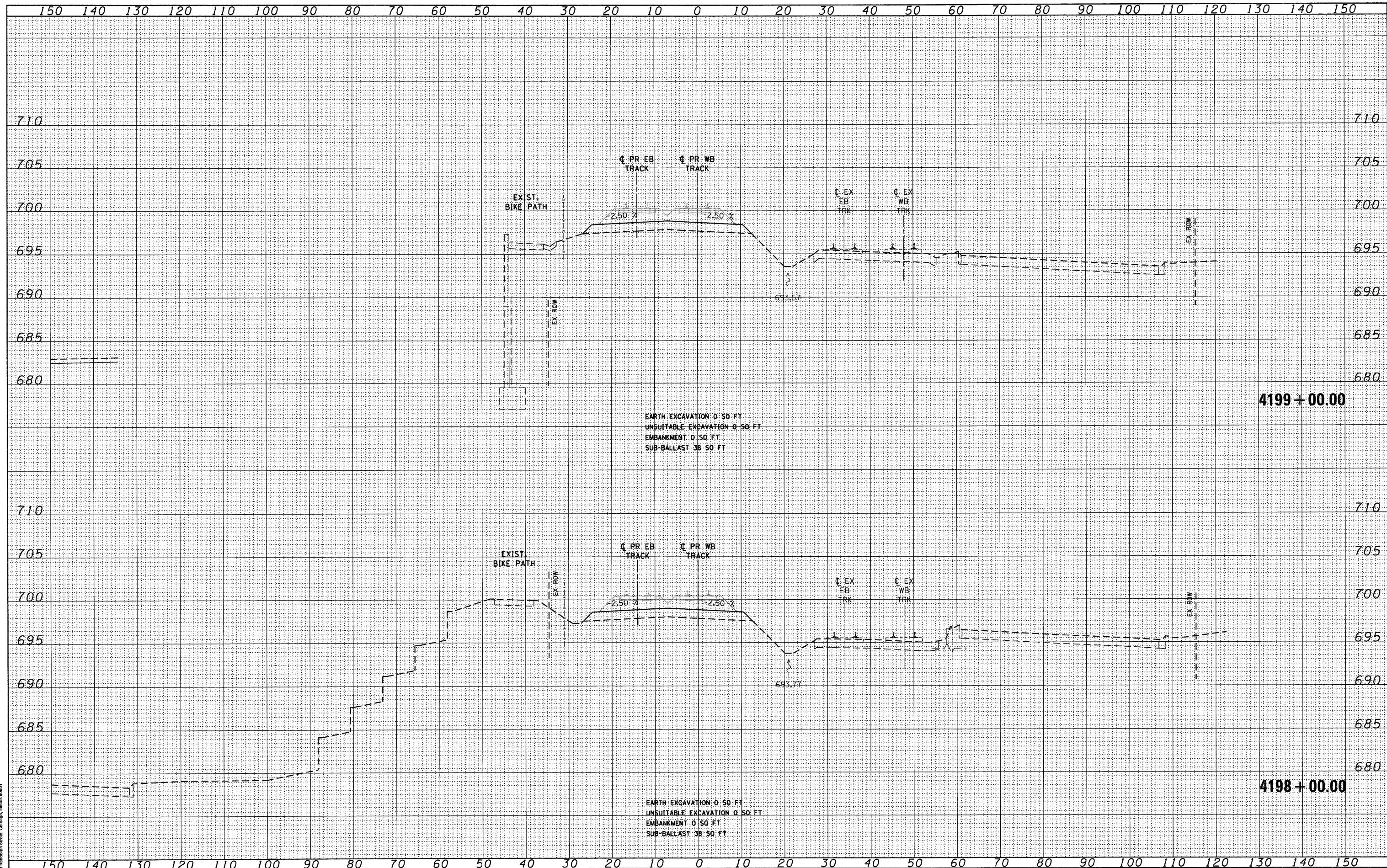
METRA RAILROAD CROSS SECTIONS

F.A.P. R.T.E.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
330	2010-135-1	COOK	101	88
XS-R16		CONTRACT NO. 60N09		
ILLINOIS FED. AID PROJECT				



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



McDonough Associates Inc.  
199 East Randolph Street, Chicago, Illinois 60601

FILE NAME =	D:\60809-SHT-XSSHT01.dgn
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DRAWN -	BFH
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DESIGNED -	BFH
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**STATE OF ILLINOIS  
DEPARTMENT OF TRANSPORTATION**

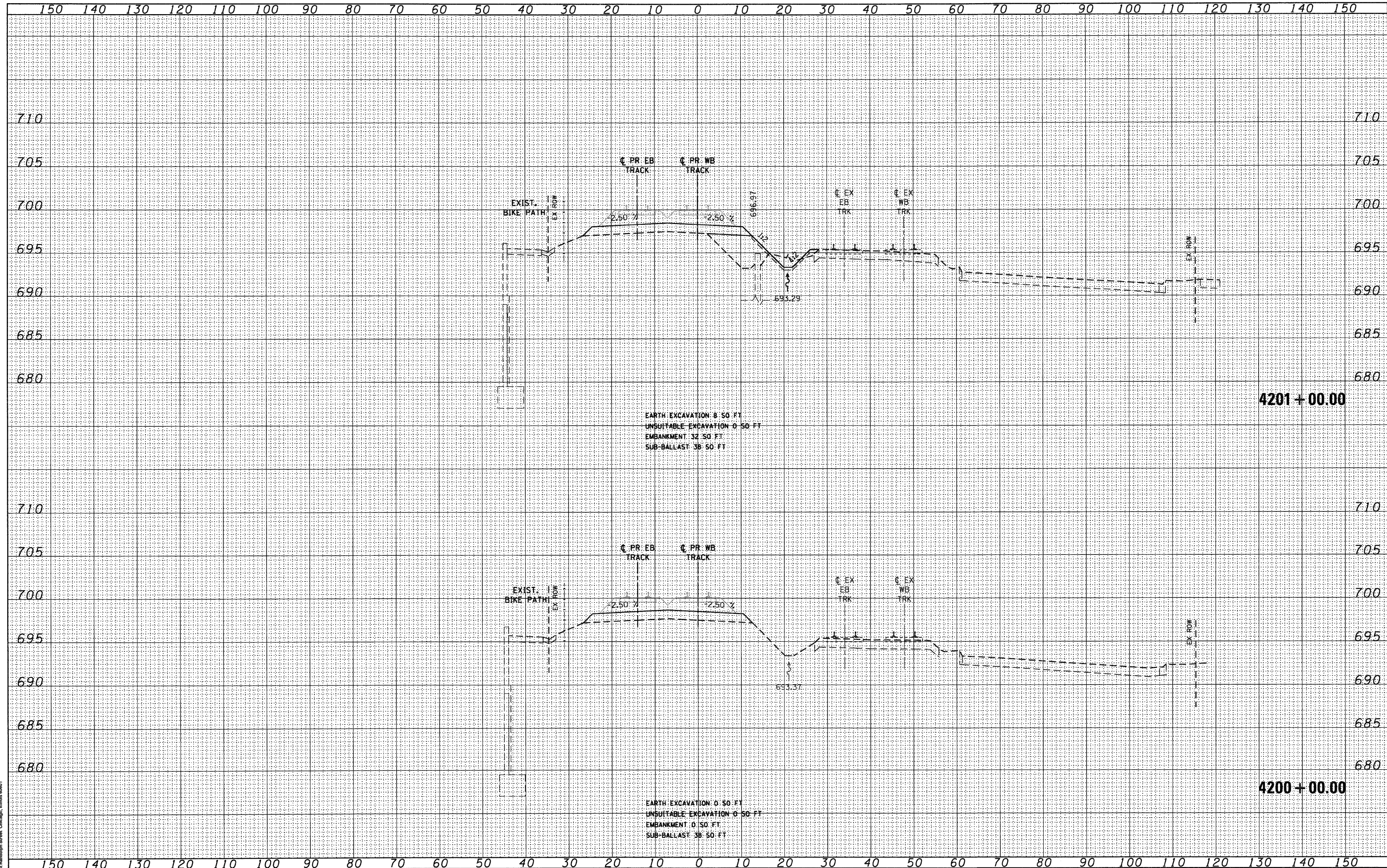
**METRA RAILROAD CROSS SECTIONS**

SCALE: 1"=10'H V, 1"=5' H SHEET NO. 17 OF 29 SHEETS STA. 4198+00.00 TO STA. 4199+00.00

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
330	2010-135-1	COOK	101	89
<b>XS-R17</b>		CONTRACT NO. 60N09		
ILLINOIS FED. AID PROJECT				

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

DATE	
BY	
SUPERVISOR	
PLOTTED	
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EARTH EXCAVATION: 8.50 FT  
 UNSUITABLE EXCAVATION: 0.50 FT  
 EMBANKMENT: 32.50 FT  
 SUB-BALLAST: 38.50 FT

EARTH EXCAVATION: 0.50 FT  
 UNSUITABLE EXCAVATION: 0.50 FT  
 EMBANKMENT: 0.50 FT  
 SUB-BALLAST: 38.50 FT

McDonough Associates Inc.  
 150 East Randolph Street, Chicago, Illinois 60601

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DATE -	12/17/10

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STATE OF ILLINOIS  
 DEPARTMENT OF TRANSPORTATION

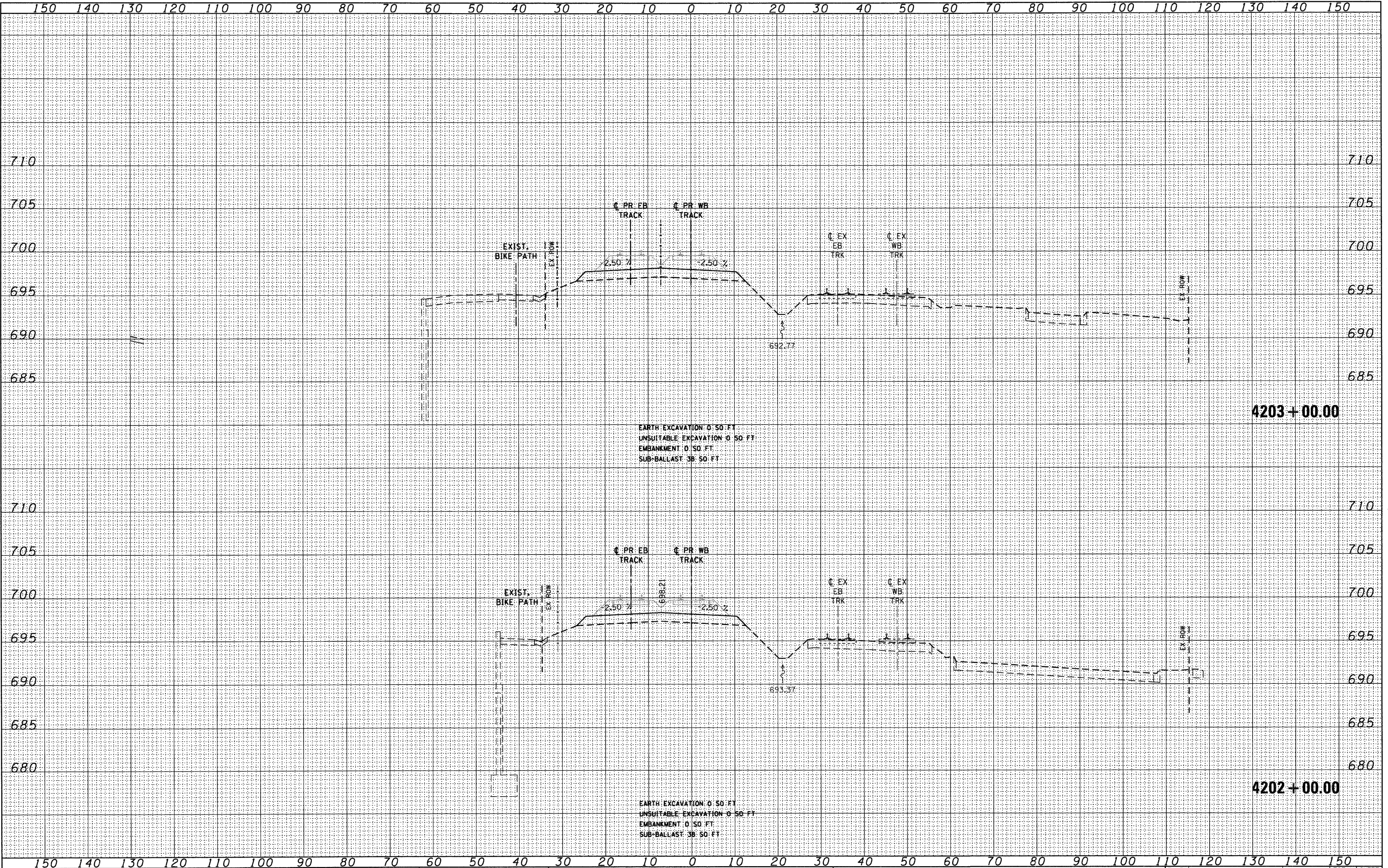
METRA RAILROAD CROSS SECTIONS

SCALE: 1"=10' HORIZ. 5"=1' VERT. SHEET NO. 18 OF 29 SHEETS STA. 4200+00.00 TO STA. 4201+00.00

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
330	2010-135-1	COOK	101	90
XS-R18		CONTRACT NO. 60N09		
ILLINOIS FED. AID PROJECT				

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100 East Randolph Street, Chicago, Illinois 60601

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STATE OF ILLINOIS  
DEPARTMENT OF TRANSPORTATION

METRA RAILROAD CROSS SECTIONS

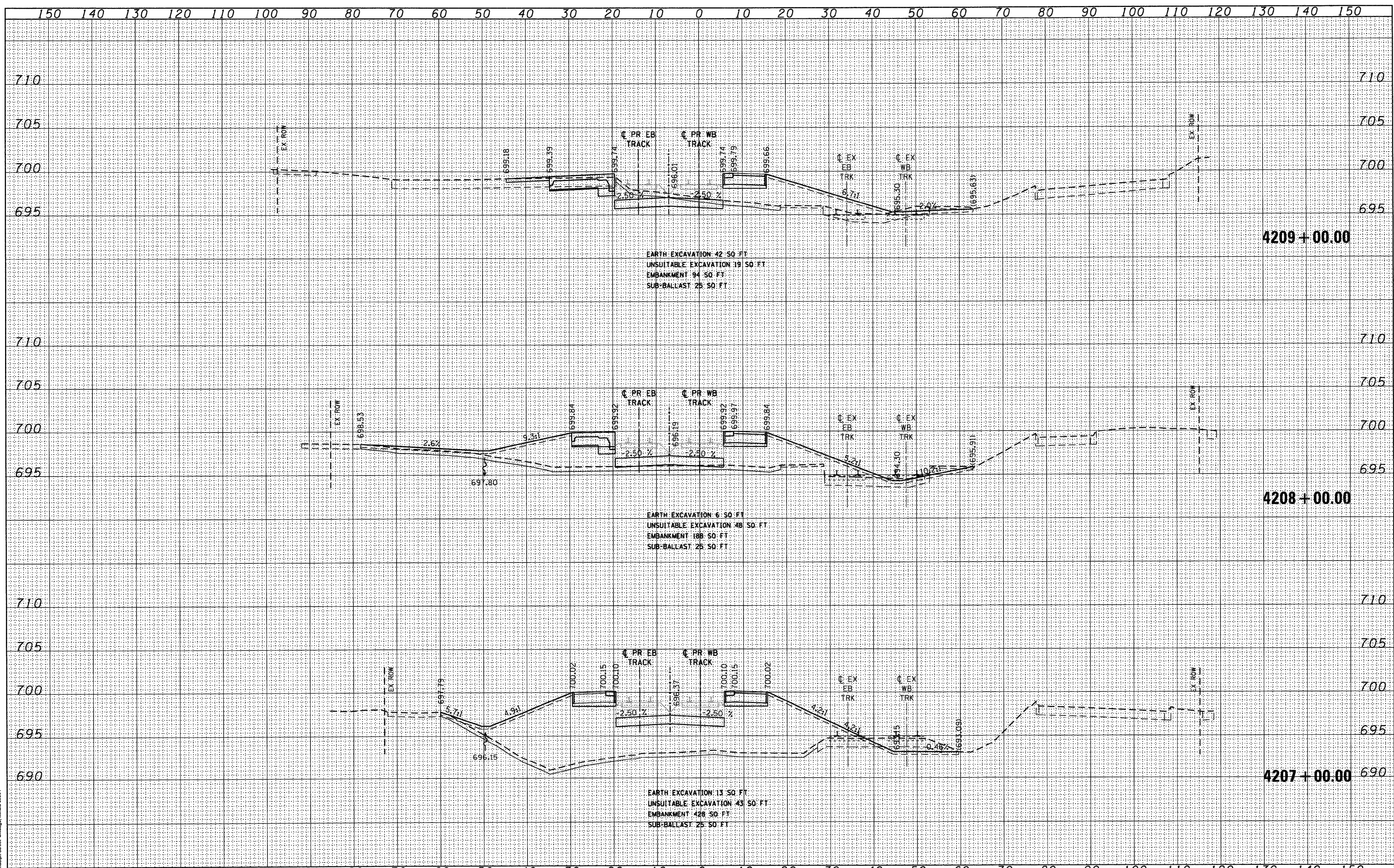
SCALE: 1"=10'H 1/4"=5' V SHEET NO. 19 OF 29 SHEETS STA. 4202+00.00 TO STA. 4203+00.00

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
330	2010-135-1	COOK	101	91
XS-R19		CONTRACT NO. 60N09		
ILLINOIS FED. AID PROJECT				



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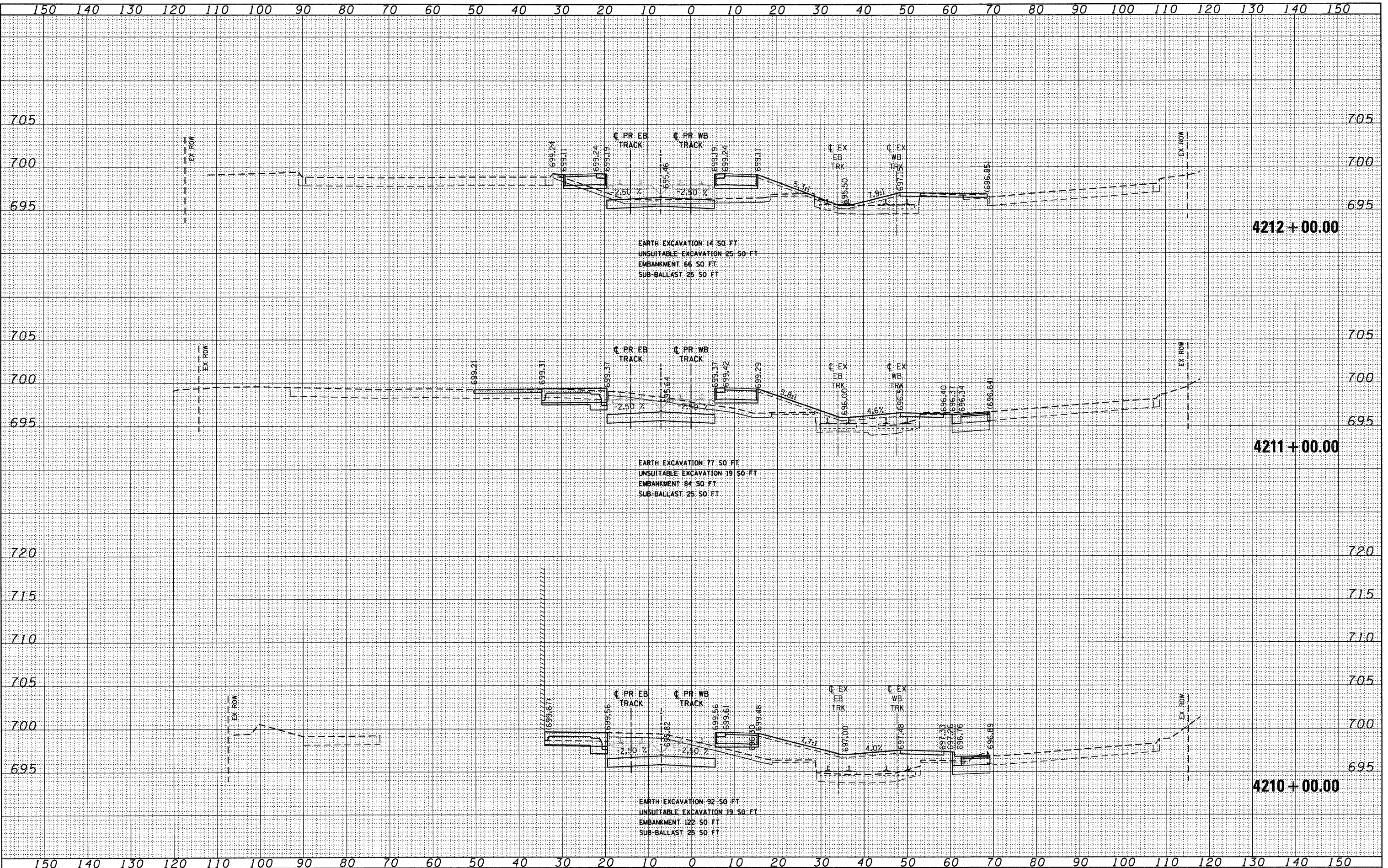
McDonough Associates Inc.  
 130 East Randolph Street Chicago, Illinois 60601

FILE NAME = D:\62089-SHT-XSSHT01.dgn	USER NAME = TKluegel	DESIGNED - BFH	REVISED -	<b>STATE OF ILLINOIS DEPARTMENT OF TRANSPORTATION</b>	<b>METRA RAILROAD CROSS SECTIONS</b>	F.A.P. RTE. 330	SECTION 2010-135-1	COUNTY COOK	TOTAL SHEETS 101	SHEET NO. 93
PLOT SCALE = 1:10	CHECKED - MJT	REVISED -	SCALE: 1"=10'-H1"=5'			SHEET NO. 21 OF 29 SHEETS	STA. 4207+00.00 TO STA. 4209+00.00	<b>XS-R21</b>		CONTRACT NO. 60N09
PLOT DATE = 12/29/2010	DATE - 12/17/10	REVISED -				ILLINOIS FED. AID PROJECT				

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STATE OF ILLINOIS  
DEPARTMENT OF TRANSPORTATION

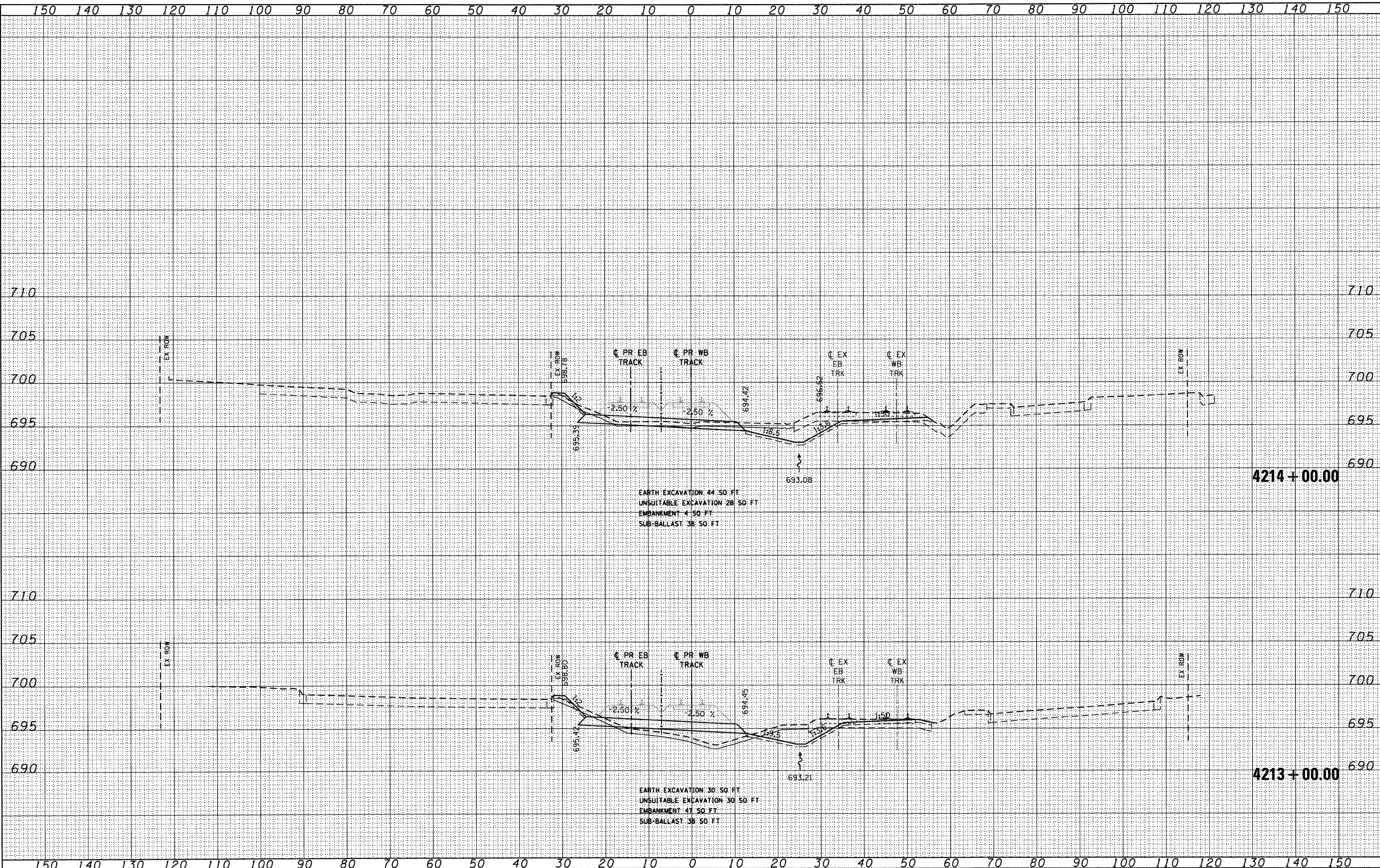
METRA RAILROAD CROSS SECTIONS

SCALE: 1"=10' H1"=5' SHEET NO. 22 OF 29 SHEETS STA. 4210+00.00 TO STA. 4212+00.00

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
330	2010-135-1	COOK	101	94
<b>XS-R22</b>		CONTRACT NO. 60N09		
ILLINOIS FED. AID PROJECT				

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 PLOT DATE = 12/29/2010

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**STATE OF ILLINOIS  
DEPARTMENT OF TRANSPORTATION**

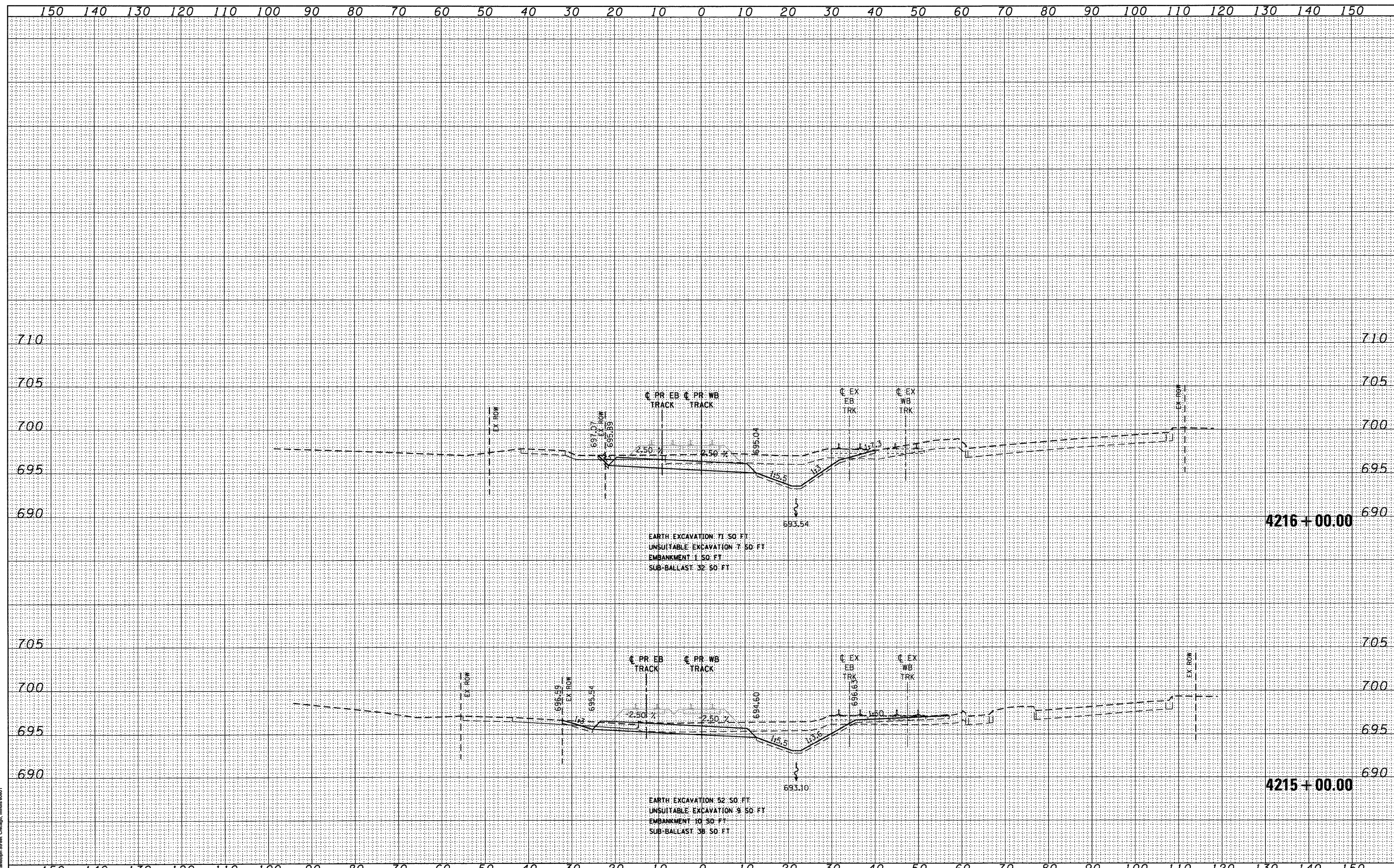
**METRA RAILROAD CROSS SECTIONS**

SCALE: 1"=10' HORIZ, 1"=5' VERT SHEET NO. 23 OF 29 SHEETS STA. 4213+00.00 TO STA. 4214+00.00

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
330	2010-135-1	COOK	101	95
<b>XS-R23</b>			CONTRACT NO. 60N09	
ILLINOIS FED. AID PROJECT				

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STATE OF ILLINOIS  
DEPARTMENT OF TRANSPORTATION

METRA RAILROAD CROSS SECTIONS

SCALE: 1"=10'H 1"=5' V SHEET NO. 24 OF 29 SHEETS STA. 4215+00.00 TO STA. 4216+00.00

F.A.P. RTE. 330	SECTION 2010-135-1	COUNTY COOK	TOTAL SHEETS 101	SHEET NO. 96
<b>XS-R24</b>		CONTRACT NO. 60N09		
ILLINOIS FED. AID PROJECT				

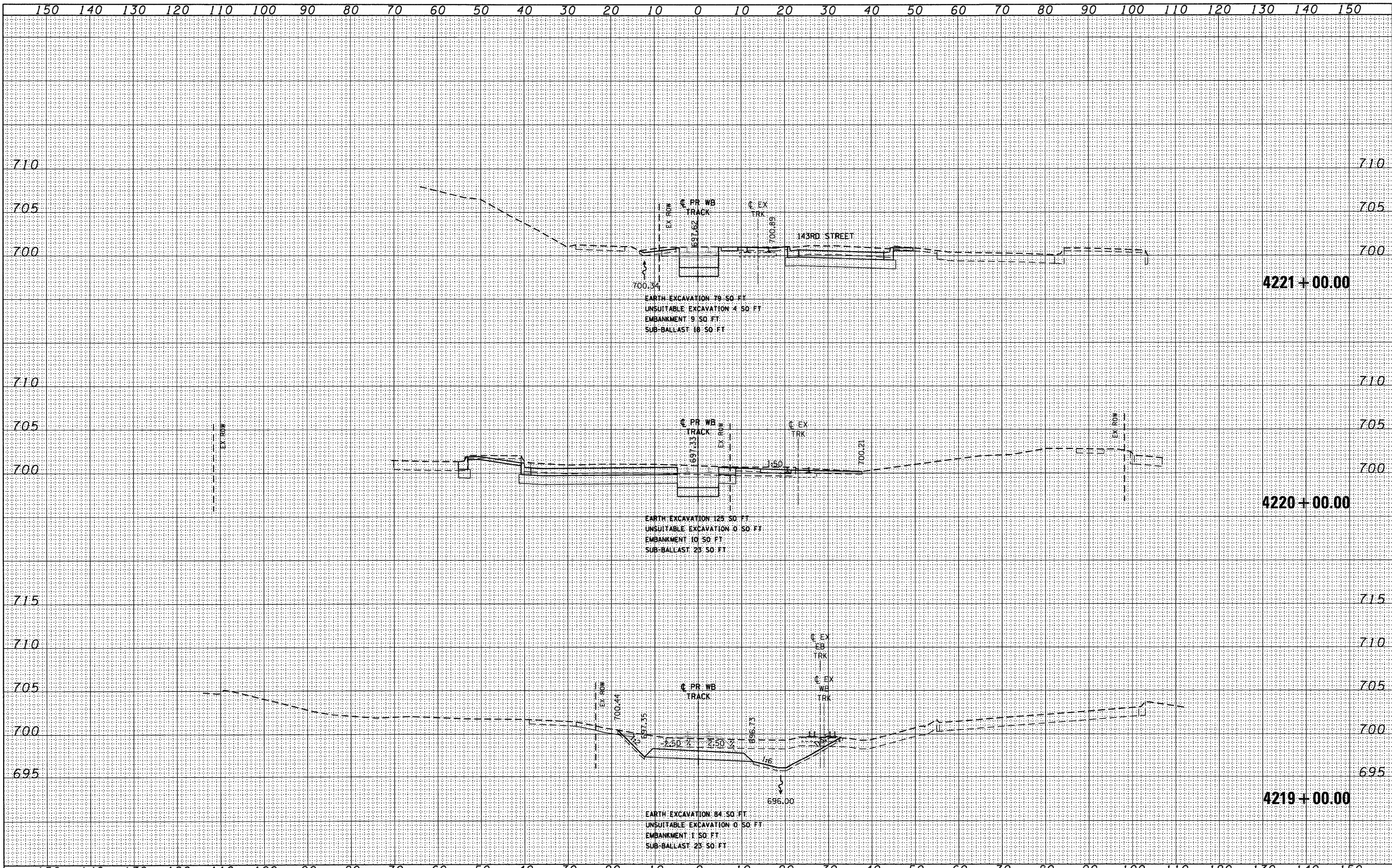




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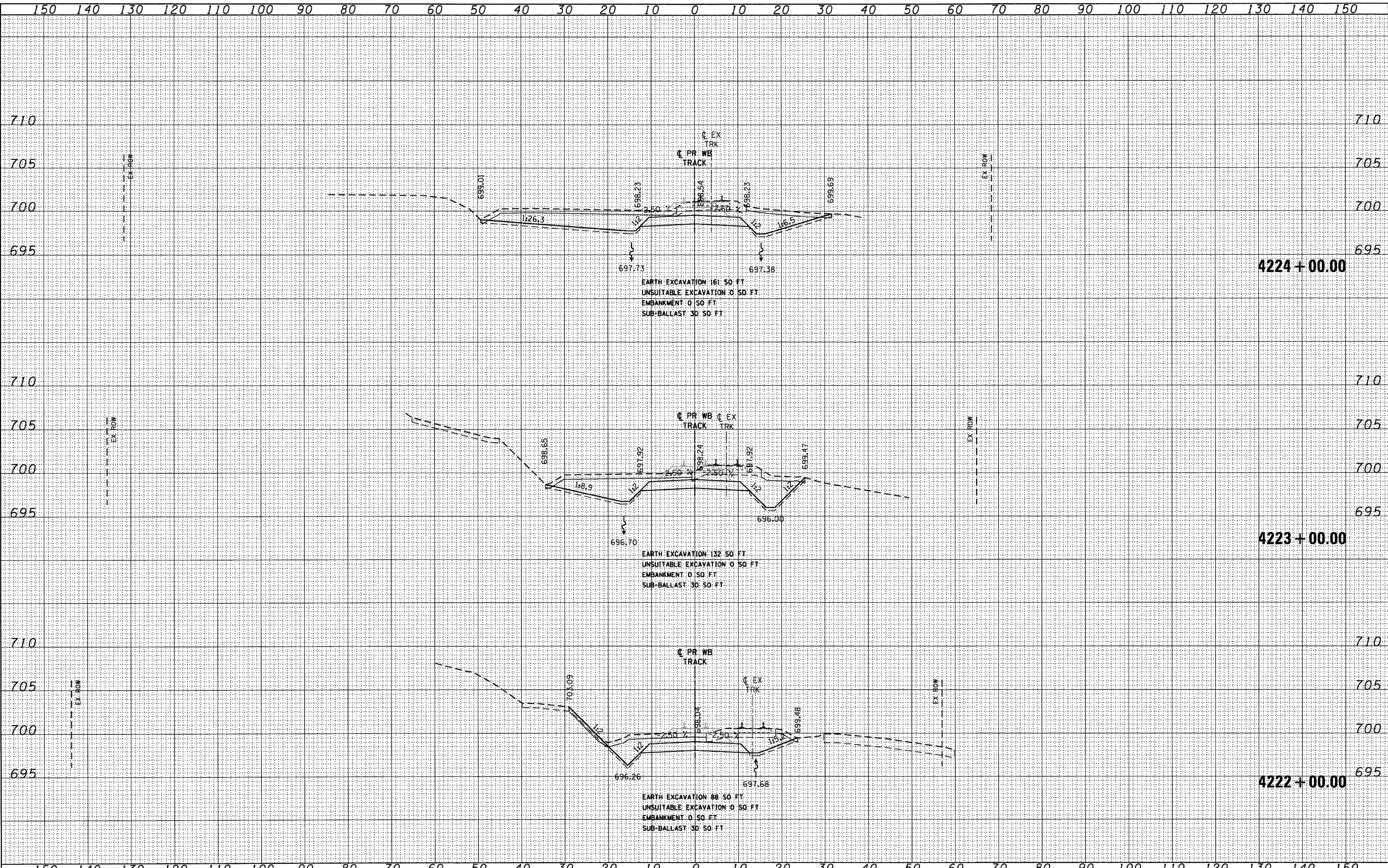
METRA RAILROAD CROSS SECTIONS  
 SCALE: 1"=10'H 1/4"=5' V SHEET NO. 26 OF 29 SHEETS STA. 4219+00.00 TO STA. 4221+00.00

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
330	2010-135-1	COOK	101	98
XS-R26		CONTRACT NO. 60N09		
ILLINOIS FED. AID PROJECT				

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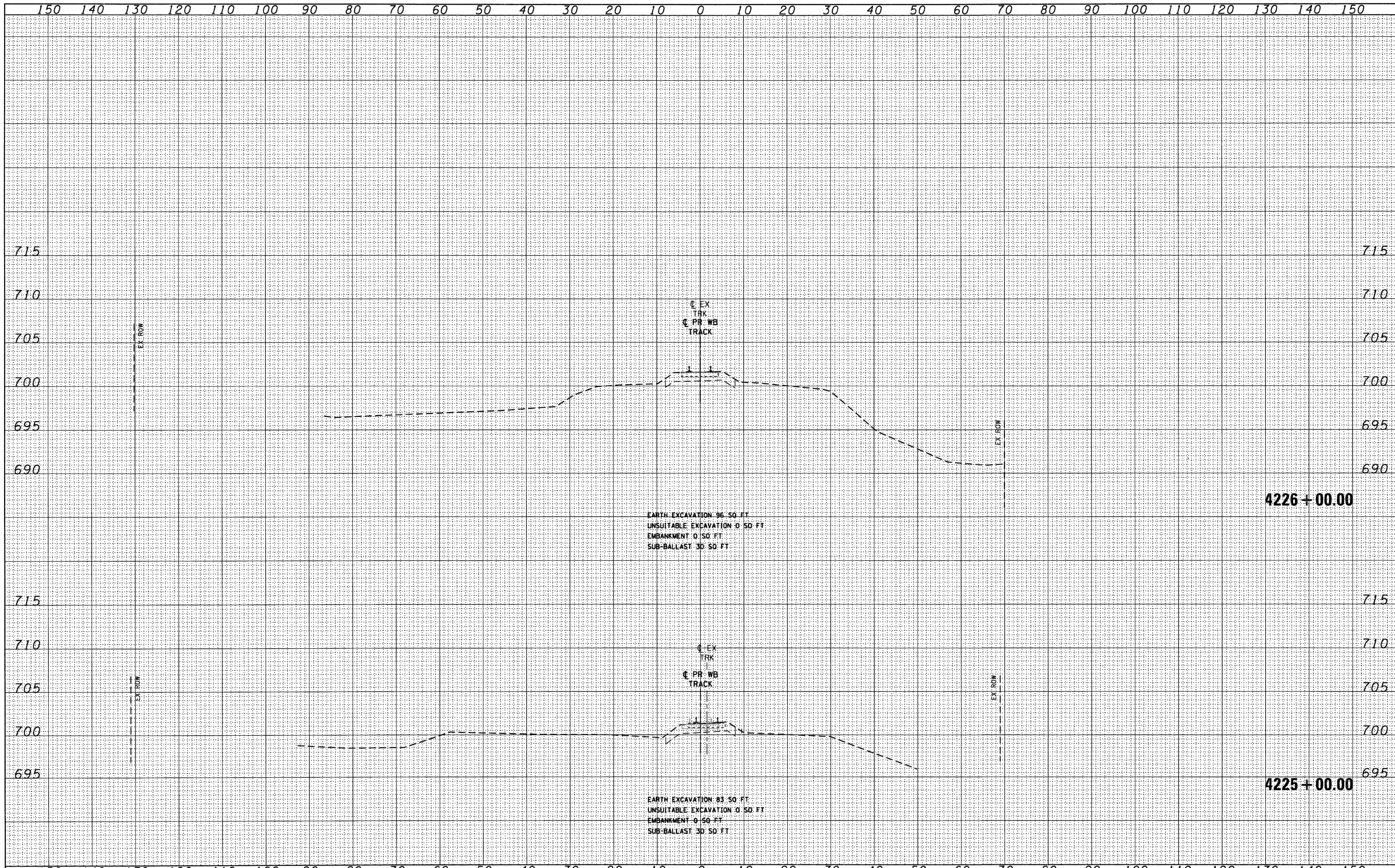
McDonough Associates Inc.  
138 East Randolph Street, Chicago, Illinois 60601



FILE NAME = D160N89-SHT-XSSH101.dgn	USER NAME = TKLuogel	DESIGNED - BFH	REVISED -	<b>STATE OF ILLINOIS</b> <b>DEPARTMENT OF TRANSPORTATION</b>	<b>METRA RAILROAD CROSS SECTIONS</b>	F.A.P. RTE. 330	SECTION 2010-135-1	COUNTY COOK	TOTAL SHEETS 101	SHEET NO. 99	
PLOT SCALE = 1:10	CHECKED - MJT	REVISED -	SCALE: 1"=10'H=1"=5'V			SHEET NO. 27 OF 29 SHEETS	STA. 4222+00.00 TO STA. 4224+00.00	<b>XS-R27</b>		CONTRACT NO. 60N09	(ILLINOIS) FED. AID PROJECT
PLOT DATE = 12/29/2010	DATE - 12/17/10	REVISED -									

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	PLOT SCALE = 1:100	DRAWN - BFH	REVISED -			<b>XS-R28</b> CONTRACT NO. 60N09	ILLINOIS FED. AID PROJECT				
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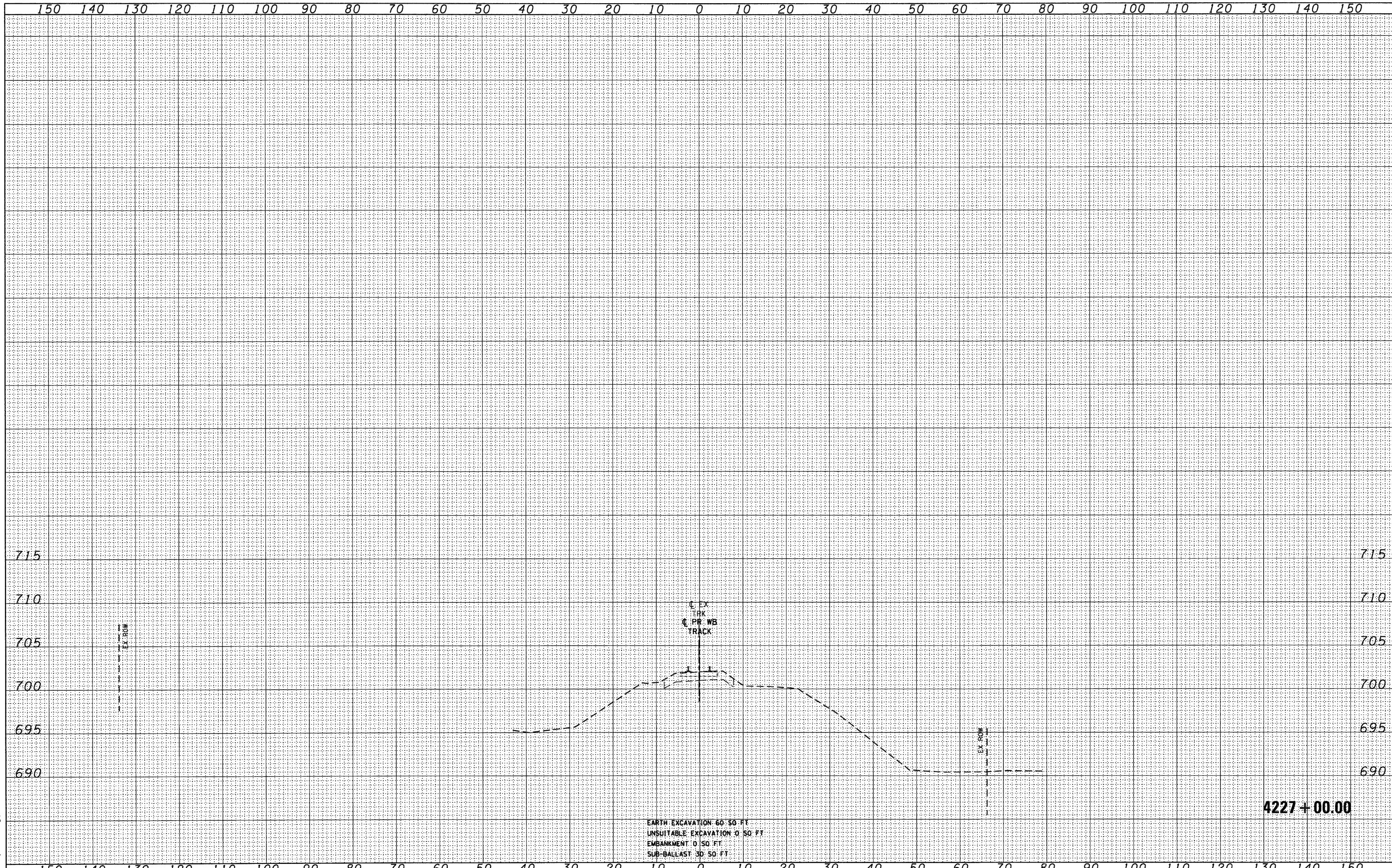


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 130 East Randolph Street, Chicago, Illinois 60601

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130 East Randolph Street, Chicago, Illinois 60601



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PLOT SCALE = 1:10
PLOT DATE = 12/29/2010

**STATE OF ILLINOIS**  
**DEPARTMENT OF TRANSPORTATION**

**METRA RAILROAD CROSS SECTIONS**

SCALE: 1"=10'H; 1"=5'V SHEET NO. 29 OF 29 SHEETS STA. 4227+00.00 TO STA. 4227+00.00

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
330	2010-135-1	COOK	101	101
<b>XS-R29</b>		CONTRACT NO. 60N09		
ILLINOIS FED. AID PROJECT				