

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION
DIVISION OF HIGHWAYS
PROPOSED
HIGHWAY PLANS

FAP ROUTE 870 (IL 53/BRYANT AVE)
SECTION 534X-B
PROJECT : ACNHPP-0870(015)
BOX CULVERT REPLACEMENT
DUPAGE COUNTY

C-91-536-12

INDEX OF SHEETS

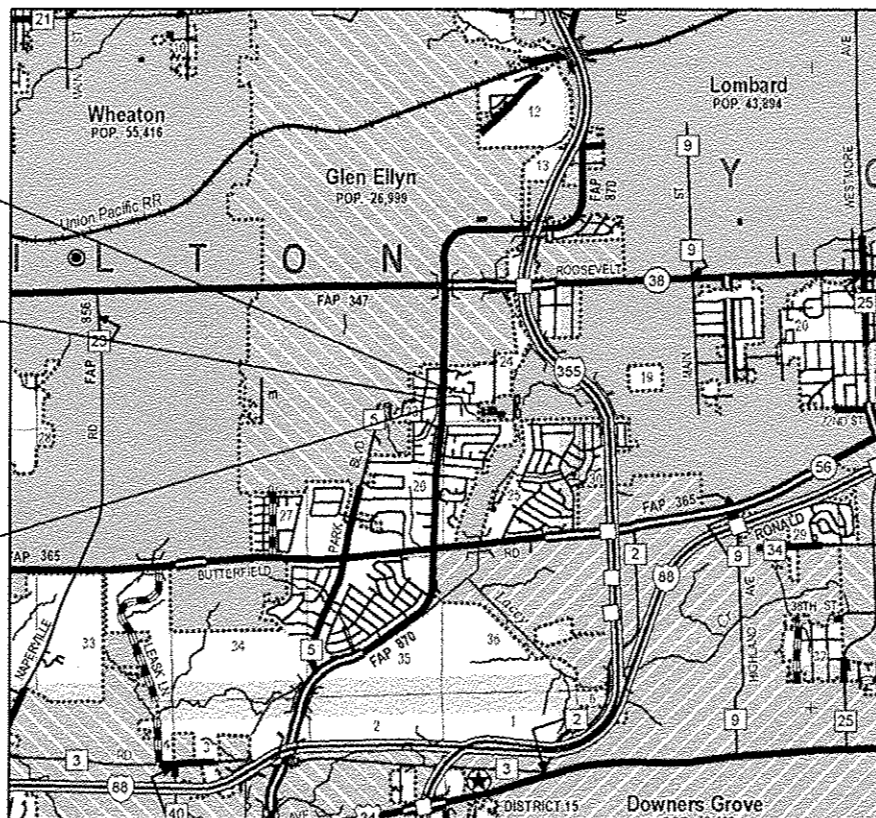
- 1 COVER SHEET
- 2 LIST OF IDOT HIGHWAY STANDARDS, GENERAL NOTES AND COMMITMENTS
- 3-11 SUMMARY OF QUANTITIES
- 12-15 TYPICAL SECTIONS
- 16-21 SCHEDULE OF QUANTITIES
- 22 ALIGNMENT, TIES AND BENCHMARKS
- 23 PLAN & PROFILE
- 24-30 CONSTRUCTION STAGING AND MAINTENANCE OF TRAFFIC
- 31 EROSION CONTROL PLAN
- 32-34 DRAINAGE PLAN & PROFILES
- 35 PAVEMENT MARKING
- 36 REMOVAL PLAN
- 37-46 STRUCTURE PLANS
- 47 OUTFALL STABILIZATION SHEET
- 48 DRIVEWAY DETAILS- DISTANCE BETWEEN R.O.W. AND FACE OF CURB & EDGE OF SHOULDER GREATER THAN OR EQUAL TO 15'(4.5M) (BD-01)
- 49 PAVEMENT PATCHING FOR HMA SURFACED PAVEMENT (BD-22)
- 50 BUTT JOINTS AND HMA TAPER DETAILS (BD-32)
- 51 DETAILS FOR DEPRESSED CURB & GUTTER AND SHOULDER TREATMENT AT TBT TY 1 SPL (BD-34)
- 52 MANHOLE TYPE A 7 FOOT DIAMETER (BD-37)
- 53 BENCHING DETAIL FOR EMBANKMENT WIDENING (BD-51)
- 54 TRAFFIC CONTROL AND PROTECTION FOR SIDE ROADS, INTERSECTIONS AND DRIVEWAYS (TC-10)
- 55 DISTRICT ONE TYPICAL PAVEMENT MARKINGS (TC-13)
- 56 ARTERIAL ROAD INFORMATION SIGN (TC-22)
- 57-66 CROSS SECTIONS

PROJECT IS LOCATED IN
MILTON TOWNSHIP IN
UNINCORPORATED DUPAGE COUNTY

END IMPROVEMENT
STA 829 + 32

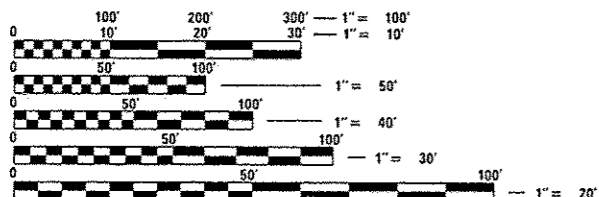
CULVERT REPLACEMENT
STA 824 + 43.29
EXIST SN 022-2007
PROP SN 022-0542

BEGIN IMPROVEMENT
STA 818 + 98



N

LOCATION MAP
NOT TO SCALE



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

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

PROJECT ENGINEER: ROBERT T. BORO, P.E. (847) 705-4237
PROJECT MANAGER: ISSAM Y. RAYYAN, P.E. (847) 705-4178

CONTRACT NO. 60V29

GROSS LENGTH = 1034.00 FT. = 0.196 MILE
 NET LENGTH = 1034.00 FT. = 0.196 MILE



SIGNATURE: *Shelley L. Dintelman*
 DATE SIGNED: 8/6/15
 LICENSE EXPIRES: 11/30/2015

THE SEAL SHOWN ABOVE IS VALID FOR THE FOLLOWING SHEETS ON THESE PLANS WHICH WERE PREPARED UNDER MY DIRECTION SHEETS 1-36, 47, 57-66

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
870	534X-B	DUPAGE	66	1
ILLINOIS			CONTRACT NO. 60V29	

P-91-095-10
D-91-536-12



FUNCTIONAL CLASSIFICATION-PRINCIPAL ARTERIAL
POSTED & DESIGN SPEED = 40 MPH
 2009 ADT = 15,700
 2035 ADT = 16,000
 TRUCK % = 4%

STATE OF ILLINOIS
 DEPARTMENT OF TRANSPORTATION
 DIVISION OF HIGHWAYS

SUBMITTED: August 20 15
John D. Baranzelli
 DEPUTY DIRECTOR OF HIGHWAYS, REGION ENGINEER

Oct 6 20 15
John D. Baranzelli, P.E.
 ENGINEER OF DESIGN AND ENVIRONMENT

Oct 9 20 15
Onor Osman, P.E.
 DIRECTOR OF HIGHWAYS, CHIEF ENGINEER

PRINTED BY THE AUTHORITY
OF THE STATE OF ILLINOIS

GENERAL NOTES

LIST OF ILLINOIS DOT HIGHWAY STANDARDS

000001-06	STANDARD SYMBOLS, ABBREVIATIONS AND PATTERNS
001001-02	AREAS OF REINFORCEMENT BARS
001006	DECIMAL OF AN INCH AND OF A FOOT
280001-07	TEMPORARY EROSION CONTROL SYSTEMS
424006-02	DIAGONAL CURB RAMPS FOR SIDEWALKS
482001-02	HMA SHOULDER ADJACENT TO FLEXIBLE PAVEMENT
542301-03	PRECAST REINFORCED CONCRETE FLARED END SECTION
542306-02	PRECAST REINFORCED CONCRETE ELLIPTICAL FLARED END SECTION
542401-01	METAL END SECTION FOR PIPE CULVERTS
601001-04	SUB-SURFACE DRAINS
602301-04	INLET, TYPE A
602306-03	INLET, TYPE B
602401-03	MANHOLE, TYPE A
602411-04	MANHOLE, TYPE A, 7' (2.1 m) DIAMETER
602601-03	PRECAST REINFORCED CONCRETE FLAT SLAB TOP
602701-02	MANHOLE STEPS
604001-04	FRAME AND LIDS, TYPE 1
604011-05	FRAME AND GRATE, TYPE 3V
604036-03	GRATE, TYPE B
604056-04	FRAME AND GRATE, TYPE 11V
604061-03	FRAME AND GRATE, TYPE 12
604091-03	FRAME AND GATES, TYPE 24
606001-06	CONCRETE CURB TYPE B AND COMBINATION CONCRETE CURB AND GUTTER
630001-10	STEEL PLATE BEAM GUARDRAIL
630106-01	LONG-SPAN GUARDRAIL OVER CULVERT
630301-06	SHOULDER WIDENING FOR TYPE I (SPECIAL) GUARDRAIL TERMINALS
635006-03	REFLECTOR AND TERMINAL MARKER PLACEMENT
635011-02	REFLECTOR MARKER AND MOUNTING DETAILS
643001-02	SAND MODULE IMPACT ATTENUATORS
701001-02	OFF-ROAD OPERATIONS, 2L, 2W, MORE THAN 15' (4.5 m) AWAY
701006-05	OFF-ROAD OPERATIONS, 2L, 2W, 15' (4.5 m) TO 24' (600 mm) FROM PAVEMENT EDGE
701011-04	OFF-ROAD MOVING OPERATIONS, 2L, 2W DAY ONLY
701301-04	LANE CLOSURE, 2L, 2W, SHORT TIME OPERATIONS
701311-03	LANE CLOSURE, 2L, 2W, MOVING OPERATIONS - DAY ONLY
701901-04	TRAFFIC CONTROL DEVICES
704001-07	TEMPORARY CONCRETE BARRIER
780001-05	TYPICAL PAVEMENT MARKINGS
781001-03	TYPICAL APPLICATIONS RAISED REFLECTIVE PAVEMENT MARKERS

- BEFORE STARTING ANY EXCAVATION, THE CONTRACTOR SHALL CALL "J.U.L.I.E." AT 800-892-0123 FOR FIELD LOCATIONS OF BURIED ELECTRIC, TELEPHONE, AND GAS FACILITIES. 48 HOUR NOTIFICATION IS REQUIRED.
- THE CONTRACTOR SHALL COORDINATE CONSTRUCTION ACTIVITIES WITH THE UTILITY COMPANIES AND THE VILLAGE OF GLEN ELLYN.
- THE CONTRACTOR WILL NOT BE ALLOWED TO SET UP A YARD OR FIELD OFFICE ON STATE PROPERTY WITHOUT WRITTEN PERMISSION FROM THE DEPARTMENT.
- ANY PAVEMENT MARKINGS AND RAISED REFLECTIVE PAVEMENT MARKERS OBLITERATED BY MILLING AND RESURFACING OPERATIONS SHALL BE REPLACED AND PAID FOR IN KIND.
- ALL DAMAGE TO EXISTING PAVEMENT MARKING OR RAISED REFLECTIVE PAVEMENT MARKERS OUTSIDE THE REMOVAL LINE SHOWN ON THE PLANS SHALL BE REPLACED AT THE CONTRACTOR'S EXPENSE. NO ADDITIONAL COST TO THE DEPARTMENT.
- BEFORE BEGINNING ANY WORK, THE CONTRACTOR SHALL RETAIN AND RECORD FOR FUTURE REFERENCES, 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 STRIPING SHALL BE AS DIRECTED BY THE ENGINEER.
- THE CONTRACTOR SHALL BE RESPONSIBLE FOR VERIFYING ALL DIMENSIONS AND CONDITIONS EXISTING IN THE FIELD PRIOR TO CONSTRUCTION AND ORDERING MATERIALS.
- THE CONTRACTOR SHALL CONTACT THE DISTRICT ONE TRAFFIC CONTROL SUPERVISOR AT (847) 705-4470 A MINIMUM OF 72 HOURS IN ADVANCE OF BEGINNING WORK.
- THE ENGINEER SHALL CONTACT DON CHIARUCI, THE TRAFFIC FIELD TECHNICIAN AT (847) 741-9857 A MINIMUM OF TWO (2) WEEKS PRIOR TO THE PLACEMENT OF PERMANENT PAVEMENT MARKINGS.
- THE CONTRACTOR SHALL BE REQUIRED TO PROVIDE ACCESS TO ABUTTING PROPERTY AT ALL TIMES DURING THE CONSTRUCTION OF THIS PROJECT.
- DO NOT SCALE PLANS FOR CONSTRUCTION DIMENSIONS.
- WHEN MILLED PAVEMENT IS OPEN TO TRAFFIC THE MAXIMUM GRADE DIFFERENTIAL BETWEEN PASSES OF THE MILLING MACHINE SHALL NOT EXCEED 1 1/2 INCHES WHERE THE SPEED LIMIT IS 45 MPH OR LESS AND 1 INCH WHERE THE SPEED LIMIT IS GREATER THAN 45 MPH. WITH WRITTEN APPROVAL FROM THE ENGINEER, A MAXIMUM GRADE DIFFERENTIAL OF 3 INCHES MAY BE ALLOWED IF THE EDGE OF THE MILLING IS SLOPED A MINIMUM 1:3 (V:H).
- BUTT JOINTS WILL BE INSTALLED AT THE ENDS OF ALL RESURFACING (WHERE RESURFACING MEETS EXISTING PAVEMENT), IN ACCORDANCE WITH THE "BUTT JOINT AND HOT-MIX ASPHALT TAPER DETAILS" SHEET INCLUDED IN THE PLANS UNLESS OTHERWISE SPECIFIED.
- PAVEMENT MARKING TAPE, TYPE III SHALL BE USED FOR SHORT TERM PAVEMENT MARKINGS ON ALL FINAL SURFACES. THE COST OF THE PAVEMENT MARKING TAPE, TYPE III AND ITS REMOVAL SHALL BE INCLUDED IN THE COST OF SHORT TERM PAVEMENT MARKING.
- THE CONTRACTOR SHALL PLACE PROPOSED PAVEMENT MARKINGS IN ACCORDANCE WITH DISTRICT 1 TYPICAL PAVEMENT MARKINGS DETAIL (TC-13).
- THE CONTRACTOR SHALL REMOVE AND DISPOSE OF ALL LOGS, SHRUBS, BUSHES, SAPLINGS, UNDERBRUSH OR DEBRIS ACCORDING TO SECTION 201 OF THE STANDARD SPECIFICATIONS. THIS WORK WILL NOT BE PAID FOR SEPARATELY, BUT THE COST SHALL BE CONSIDERED AS INCLUDED IN THE CONTRACT AND NO ADDITIONAL COMPENSATION WILL BE ALLOWED.
- ANY ABANDONED UTILITY OR SEWER ENCOUNTERED DURING CONSTRUCTION SHALL BE PLUGGED AS DIRECTED BY THE ENGINEER AND ABANDONED IN PLACE. THIS WORK SHALL BE INCIDENTAL TO THE COST OF THE CONTRACT.
- DURING CONSTRUCTION OPERATIONS, IF ANY LOOSE MATERIAL IS DEPOSITED IN THE FLOW LINE OF DRAINAGE STRUCTURES SUCH THAT THE NATURAL FLOW OF WATER IS OBSTRUCTED, THE MATERIAL SHALL BE REMOVED AT THE CLOSE OF EACH WORKING DAY. AT THE CONCLUSION OF CONSTRUCTION OPERATIONS, ALL UTILITY STRUCTURES SHALL BE FREE OF DUST AND DEBRIS. THE WORK SPECIFIED ABOVE WILL NOT BE PAID FOR SEPARATELY BUT SHALL BE INCIDENTAL IN THE COST OF THE CONTRACT.
- IF CONFLICTS OCCUR AND RELOCATION OF THE NEW FACILITIES IS NOT FEASIBLE, THE CONTRACTOR SHALL WORK WITH THE ENGINEER TO MAKE ARRANGEMENTS WITH THE UTILITY COMPANIES TO HAVE THE AFFECTED UTILITIES PROTECTED OR RELOCATED. NO ADDITIONAL COMPENSATION WILL BE ALLOWED AS A RESULT OF ANY ADDITIONAL COSTS.
- SIDEWALK RAMPS MODIFICATIONS WITHIN THE LIMITS OF THE PROJECT SHALL CONFORM TO THE APPLICABLE HIGHWAY STANDARDS INCLUDED IN THE PLANS.

- THE CONTRACTOR SHOULD BE ADVISED THAT THERE ARE LOCATIONS WHERE PROPOSED DRAINAGE STRUCTURES WILL NEED TO BE CONSTRUCTED ADJACENT TO EXISTING PAVEMENT. THE CONTRACTOR SHALL SAWCUT, REMOVE, OR PATCH ANY EXISTING PAVEMENT AS NECESSARY TO CONSTRUCT THE PROPOSED DRAINAGE STRUCTURES ACCORDING TO PLAN. ALL COSTS TO PROPERLY CONSTRUCT THE PROPOSED DRAINAGE STRUCTURES AT THESE LOCATIONS SHALL BE INCLUDED IN THE COST OF THE APPROPRIATE DRAINAGE STRUCTURE PAY ITEM; NO ADDITIONAL PAYMENT WILL BE PROVIDED. ANY PAVEMENT PATCHING OR REPLACEMENT SHALL BE CONDUCTED IN ACCORDANCE WITH SECTION 603 OF THE STANDARD SPECIFICATIONS.
- THE CONTRACTOR SHOULD BE ADVISED THAT THERE ARE LOCATIONS WHERE PROPOSED CURB AND CUTTER WILL NEED TO BE CONSTRUCTED ADJACENT TO EXISTING PAVEMENT. THE CONTRACTOR SHALL SAWCUT, REMOVE, OR PATCH ANY EXISTING PAVEMENT AS NECESSARY TO CONSTRUCT THE PROPOSED CURB AND CUTTER ACCORDING TO THE APPROPRIATE IDOT HIGHWAY STANDARD. ALL COSTS TO PROPERLY CONSTRUCT THE PROPOSED CURB AND CUTTER AT THESE LOCATIONS SHALL BE INCLUDED IN THE COST OF THE APPROPRIATE CURB AND CUTTER PAY ITEM; NO ADDITIONAL PAYMENT WILL BE PROVIDED. ANY PAVEMENT PATCHING OR REPLACEMENT SHALL BE CONDUCTED IN ACCORDANCE WITH SECTION 603 OF THE STANDARD SPECIFICATIONS.

23. PLEASE NOTE THAT CURB AND GUTTER TRANSITIONS WILL NEED TO BE MADE AT THE FOLLOWING LOCATIONS ALONG THE PROJECT. TRANSITIONS SHALL BE INCLUDED IN THE CURB AND GUTTER PAY ITEM LISTED BELOW AND NO ADDITIONAL PAYMENT WILL BE PROVIDED:

- LEFT SIDE:
- STA. 823+79.13 TO STA. 823+84.13 LT.
CURB TOP ONLY
(5' TRANSITION TO BE INCLUDED IN PAY ITEM NO. 60608562)
 - STA. 828+26.70 LT.
CURB TOP ONLY
(5' TRANSITION TO BE INCLUDED IN PAY ITEM NO. 60608562)
- RIGHT SIDE:
- STA. 822+28.10 RT.
PROP. B6.24 C&G TO DRIVEWAY EDGE
(5' TRANSITION TO BE INCLUDED IN PAY ITEM NO. 60605000)
 - STA. 823+14.19 TO STA. 823+19.19 RT.
PROP. B6.24 C&G TO PROP. M6.24 C&G
(5' TRANSITION TO BE INCLUDED IN PAY ITEM NO. 60610400)
 - STA. 826+87.92 TO STA. 826+92.92 RT.
PROP. M6.24 C&G TO PROP. B6.24 C&G
(5' TRANSITION TO BE INCLUDED IN PAY ITEM NO. 60610400)
 - STA. 828+38.13 RT.
PROP. B6.24 C&G/SIDEWALK CURB RAMP TO EXISTING C&G
(TRANSITION TO BE INCLUDED IN PAY ITEM NO. 60605000)
 - STA. 828+71.50 RT.
PROP. B6.12 C&G TO EXISTING C&G
(5' TRANSITION TO BE INCLUDED IN PAY ITEM NO. 60603800)
 - STA. 829+27 TO STA. 829+32 RT.
PROP. B6.12 C&G TO EXISTING C&G
(5' TRANSITION TO BE INCLUDED IN PAY ITEM NO. 60603800)

- THIS PROJECT REQUIRES A US ARMY CORPS OF ENGINEERS (USACE) 404 PERMIT THAT WILL BE SECURED BY THE DEPARTMENT. AS A CONDITION OF THIS PERMIT, THE CONTRACTOR WILL NEED TO SUBMIT AN IN-STREAM WORK PLAN TO THE DEPARTMENT FOR APPROVAL. GUIDELINES ON ACCEPTABLE IN-STREAM WORK TECHNIQUES CAN BE FOUND ON THE USACE WEBSITE. THE USACE DEFINES AND DETERMINES IN-STREAM WORK. THE COST OF ALL MATERIALS AND LABOR NECESSARY TO COMPLY WITH THE ABOVE PROVISIONS TO PREPARE AND IMPLEMENT AN IN-STREAM WORK PLAN WILL NOT BE PAID FOR SEPARATELY, BUT SHALL BE CONSIDERED AS INCLUDED IN THE UNIT BID PRICES OF THE CONTRACT AND NO ADDITIONAL COMPENSATION WILL BE ALLOWED.
- THE DEPARTMENT HAS NOT OBTAINED ANY PERMITS FOR OFFSITE BORROW, WASTE, USE (BWU) AREAS. PRIOR TO WORKING IN BWU AREAS, IF THE CONTRACTOR CHOOSES TO USE ACTIVITIES REQUIRING PERMITS IT IS THE CONTRACTOR'S RESPONSIBILITY TO SECURE THE PROPER PERMITS. IN ADDITION TO THE BORROW REVIEW (BDE 2289) AND USE/WASTE REVIEW (BDE 2290) SUBMITTALS, THE CONTRACTOR SHALL SUBMIT AN EROSION AND SEDIMENT CONTROL (E&SC) PLAN FOR EVERY BWU SITE TO THE DEPARTMENT FOR ACCEPTANCE. GUIDELINES FOR ACCEPTABLE BWU PRACTICES CAN BE FOUND IN SECTION II.G.1 AND 2 OF THE SWPPP. THE COST OF ALL MATERIALS AND LABOR NECESSARY TO COMPLY WITH THE ABOVE PROVISIONS TO PREPARE AND IMPLEMENT E&SC PLANS WILL NOT BE PAID FOR SEPARATELY, BUT SHALL BE CONSIDERED AS INCLUDED IN THE UNIT BID PRICES OF THE CONTRACT AND NO ADDITIONAL COMPENSATION WILL BE ALLOWED.

COMMITMENTS

NO COMMITMENTS FOR THIS PROJECT

EFK Moen, LLC
Civil Engineering Design

FILE NAME :	USER NAME :	DESIGNED :	REVISIONS :	STATE OF ILLINOIS DEPARTMENT OF TRANSPORTATION	HIGHWAY STANDARDS, GENERAL NOTES AND COMMITMENTS			F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
Y:\13015 MO 1 Glen Crest Creek\DOT\Design\Prin\Plots\plots\0160V29-002-gennotes.dgn	JJD	DRAWN :	REVISIONS :					070	534X-B	DUPAGE	66	2
MODEL NUMBER :	PLOT SCALE :	CHECKED :	REVISIONS :		SCALE:	SHEET	OF	SHEETS	CONTRACT NO.	60V29		
	PLOT DATE :	DATE :	REVISIONS :						ILLINOIS FED. AID PROJECT			

CODE NO.	ITEM	UNIT	TOTAL QUANTITY	CONSTRUCTION CODE		
				80% FED.	100% GLEN ELLYN	80% FED.
				20% STATE	GLEN ELLYN	20% STATE
				ROADWAY	BRIDGE	
				0004	0020	0040
				URBAN	URBAN	URBAN
20100500	TREE REMOVAL, ACRES	ACRE	0.7	0.7		
20101400	NITROGEN FERTILIZER NUTRIENT	POUND	68	68		
20101500	PHOSPHORUS FERTILIZER NUTRIENT	POUND	68	68		
20101600	POTASSIUM FERTILIZER NUTRIENT	POUND	68	68		
20200100	EARTH EXCAVATION	CU YD	2140	2140		
20300100	CHANNEL EXCAVATION	CU YD	364	364		
20700220	POROUS GRANULAR EMBANKMENT	CU YD	654	431		223
20800150	TRENCH BACKFILL	CU YD	473	473		
21101615	TOPSOIL FURNISH AND PLACE, 4"	SQ YD	3930	3930		
25000110	SEEDING, CLASS 1A	ACRE	0.75	0.75		
25000310	SEEDING, CLASS 4	ACRE	0.5	0.5		
25100115	MULCH, METHOD 2	ACRE	0.75	0.75		
25100635	HEAVY DUTY EROSION CONTROL BLANKET	SO YD	4137	4137		
28000250	TEMPORARY EROSION CONTROL SEEDING	POUND	250	250		

IV *SPECIALTY ITEM

Rev.

EFK Moen, LLC
Civil Engineering Design

FILE NAME *	USER NAME * 2	DESIGNED - BJC	REVISED -	STATE OF ILLINOIS DEPARTMENT OF TRANSPORTATION	SUMMARY OF QUANTITIES			F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
Y:\12015 MD 1 Glen Crest Creek\ODM\Design\Prin\Plotsheets\0160V29-003-011-500.dgn	PLLOT SCALE * 100.0000 ' / in.	DRAWN - BJC	REVISED -					870	534X-B	DUPAGE	66	3
#MODELNAME*	PLLOT DATE * 8/6/2015	CHECKED - SLD	REVISED -		SCALE: N/A	SHEET 1	OF 9 SHEETS	CONTRACT NO. 60V29				
		DATE - 8/6/2015	REVISED -		ILLINOIS FED. AID PROJECT							

CODE NO.	ITEM	UNIT	TOTAL QUANTITY	CONSTRUCTION CODE		
				86% FED. 20% STATE	100% GLEN ELLYN	86% FED. 20% STATE
				ROADWAY	GLEN ELLYN	BRIDGE
				0004 URBAN	0028 URBAN	0040 URBAN
28000305	TEMPORARY DITCH CHECKS	FOOT	375	375		
28000400	PERIMETER EROSION BARRIER	FOOT	604	604		
28000500	INLET AND PIPE PROTECTION	EACH	14	14		
28100107	STONE RIPRAP, CLASS A4	SQ YD	156	156		
28100109	STONE RIPRAP, CLASS A5	SQ YD	188	188		
28200200	FILTER FABRIC	SQ YD	391	391		
28400100	GABIONS	CU YD	26	26		
30300112	AGGREGATE SUBGRADE IMPROVEMENT, 12"	SQ YD	187	187		
31101200	SUBBASE GRANULAR MATERIAL, TYPE B 4"	SQ YD	3352	3352		
31101400	SUBBASE GRANULAR MATERIAL, TYPE B 6"	SQ YD	187	187		
35501308	HOT-MIX ASPHALT BASE COURSE, 6"	SQ YD	84	84		
35501314	HOT-MIX ASPHALT BASE COURSE, 7 1/2"	SQ YD	187	187		
35501317	HOT-MIX ASPHALT BASE COURSE, 8 1/4"	SQ YD	271	271		
35501347	HOT-MIX ASPHALT BASE COURSE, 16"	SQ YD	187	187		
40600275	BITUMINOUS MATERIALS (PRIME COAT)	POUND	4077	4077		
40600635	LEVELING BINDER (MACHINE METHOD), N70	TON	109	109		

* SPECIALTY ITEM

FILE NAME :	USER NAME :	DESIGNED -	REVISED -
Y:\13015 WD 1 Glen Creek Creek\DDM\Design\Drawings\Place\15015-003-011-000.dgn	JJ	BJC	-
		DRAWN -	REVISED -
		BJC	-
		CHECKED -	REVISED -
		SLD	-
		DATE -	REVISED -
		8/6/2015	-

**STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION**

SUMMARY OF QUANTITIES	
SCALE: N/A	SHEET 2 OF 9 SHEETS

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
870	534X-B		66	4
CONTRACT NO. 60V29			ILLINOIS FED. AID PROJECT	

Rev. **EFK Moen, LLC**
Civil Engineering Design

CODE NO.	ITEM	UNIT	TOTAL QUANTITY	CONSTRUCTION CODE		
				86% FED. 20% STATE	100% GLEN ELLYN	80% FED. 20% STATE
				ROADWAY	GLEN ELLYN	BRIDGE
				0004 URBAN	0028 URBAN	0040 URBAN
40600982	HOT-MIX ASPHALT SURFACE REMOVAL - BUTT JOINT	SQ YD	103	103		
40603085	HOT-MIX ASPHALT BINDER COURSE, IL-19.0, N70	TON	235	235		
40603335	HOT-MIX ASPHALT SURFACE COURSE, MIX "D", N50	TON	9	9		
40603565	POLYMERIZED HOT-MIX ASPHALT SURFACE COURSE, MIX "E", N70	TON	434	434		
42400200	PORTLAND CEMENT CONCRETE SIDEWALK 5 INCH	SQ FT	3416		3416	
44000100	PAVEMENT REMOVAL	SQ YD	1552	1552		
44000156	HOT-MIX ASPHALT SURFACE REMOVAL, 1 3/4"	SQ YD	719	719		
44000159	HOT-MIX ASPHALT SURFACE REMOVAL, 2 1/2"	SQ YD	2532	2532		
44000200	DRIVEWAY PAVEMENT REMOVAL	SQ YD	33	33		
44000500	COMBINATION CURB AND GUTTER REMOVAL	FOOT	427	427		
44000600	SIDEWALK REMOVAL	SQ FT	490	490		
44004250	PAVED SHOULDER REMOVAL	SQ YD	436	436		
44201771	CLASS D PATCHES, TYPE IV, 10 INCH	SQ YD	62	62		
44300200	STRIP REFLECTIVE CRACK CONTROL TREATMENT	FOOT	65	65		
48101620	AGGREGATE SHOULDERS, TYPE B 10"	SQ YD	304	304		

14 * SPECIALTY ITEM

FILE NAME :	USER NAME :	DESIGNED -	REVISED -
\\13015 WD 1 Glen Crest Crank\DDN\Design\Pre\In\Plotsheets\0160V29-003-011-500.dgn	jd	BJG	-
		DRAWN -	REVISED -
		BJG	-
		CHECKED -	REVISED -
		SLO	-
		DATE -	REVISED -
		8/6/2015	-

**STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION**

SUMMARY OF QUANTITIES	
SCALE: N/A	SHEET 3 OF 9 SHEETS

Rev.

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
870	534X-B		66	5
			DUPAGE	CONTRACT NO. 60V29
ILLINOIS FED. AID PROJECT				

EFK Moen, LLC
Civil Engineering Design

CODE NO.	ITEM	UNIT	TOTAL QUANTITY	CONSTRUCTION CODE		
				80% FED.	100%	80% FED.
				26% STATE	GLEN ELLYN	20% STATE
				ROADWAY	GLEN ELLYN	BRIDGE
				0004	0028	0040
				URBAN	URBAN	URBAN
48203030	HOT-MIX ASPHALT SHOULDERS, 8 1/4"	SQ YD	1412	1412		
50100100	REMOVAL OF EXISTING STRUCTURES	EACH	1			1
50105220	PIPE CULVERT REMOVAL	FOOT	121	121		
50200100	STRUCTURE EXCAVATION	CU YD	614			614
50800105	REINFORCEMENT BARS	POUND	32,690			32,690
50800205	REINFORCEMENT BARS, EPOXY COATED	POUND	3270			3270
50800515	BAR SPLICERS	EACH	87			87
54003000	CONCRETE BOX CULVERTS	CU YD	185.7			185.7
54213450	END SECTIONS 15"	EACH	2	2		
54213669	PRECAST REINFORCED CONCRETE FLARED END SECTIONS 24"	EACH	1	1		
54214533	PRECAST REINFORCED CONCRETE FLARED END SECTIONS, EQUIVALENT ROUND-SIZE 48"	EACH	1	1		
542D0220	PIPE CULVERTS, CLASS D, TYPE 1 15"	FOOT	27	27		
550A0120	STORM SEWERS, CLASS A, TYPE 1 24"	FOOT	158	158		
550A0410	STORM SEWERS, CLASS A, TYPE 2 24"	FOOT	124	124		
550A4710	STORM SEWERS, CLASS A, TYPE 1 EQUIVALENT ROUND-SIZE 48"	FOOT	9	9		

14
* SPECIALTY ITEM

FILE NAME :	USER NAME :	DESIGNED :	REVISOR :	STATE OF ILLINOIS DEPARTMENT OF TRANSPORTATION	SUMMARY OF QUANTITIES	F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
Y:\13015 WD 1 Glen Creek Creek\DDH\Design\Drawings\Plot\shasta\0168V29-003-011-500.dgn	JD	BJG	BJG			870	534X-B	DUPAGE	66	6
PLOT SCALE : 100.0000 1" = 100'	CHECKED :	SLD	REVISOR :			CONTRACT NO. 60V29				
PLOT DATE : 8/6/2015	DATE :	8/6/2015	REVISOR :			ILLINOIS FED. AID PROJECT				
				SCALE: N/A	SHEET 4 OF 9 SHEETS					

Rev.
EFK Moen, LLC
Civil Engineering Design

CODE NO.	ITEM	UNIT	TOTAL QUANTITY	CONSTRUCTION CODE		
				80% FED. 20% STATE	100% GLEN ELLYN	80% FED. 20% STATE
				ROADWAY	GLEN ELLYN	BRIDGE
				0004 URBAN	0028 URBAN	0040 URBAN
55100700	STORM SEWER REMOVAL 15"	FOOT	516	516		
55100900	STORM SEWER REMOVAL 18"	FOOT	120	120		
55201100	STORM SEWERS JACKED IN PLACE, 30"	FOOT	39	39		
60107600	PIPE UNDERDRAINS 4"	FOOT	154	154		
60108100	PIPE UNDERDRAINS 4" (SPECIAL)	FOOT	14	14		
60218400	MANHOLES, TYPE A, 4' -DIAMETER, TYPE 1 FRAME, CLOSED LID	EACH	1	1		
60219000	MANHOLES, TYPE A, 4' -DIAMETER, TYPE 8 GRATE	EACH	1	1		
60219400	MANHOLES, TYPE A, 4' -DIAMETER, TYPE 12 FRAME AND GRATE	EACH	1	1		
60219540	MANHOLES, TYPE A, 4' -DIAMETER, TYPE 24 FRAME AND GRATE	EACH	2	2		
60219570	MANHOLES, TYPE A, 4' -DIAMETER, TYPE 3V FRAME AND GRATE	EACH	1	1		
60221700	MANHOLES, TYPE A, 5' -DIAMETER, TYPE 8 GRATE	EACH	1	1		
60222270	MANHOLES, TYPE A, 5' -DIAMETER, TYPE 3V FRAME AND GRATE	EACH	1	1		
60224129	MANHOLES, TYPE A, 7' -DIAMETER, TYPE 3V FRAME AND GRATE	EACH	1	1		
60224442	MANHOLES, TYPE A, 7' -DIAMETER, TYPE 12 FRAME AND GRATE	EACH	1	1		

14
*SPECIALTY ITEM

EFK Moen, LLC
Civil Engineering Design

FILE NAME	USER NAME	DESIGNED -	REVISED -	STATE OF ILLINOIS DEPARTMENT OF TRANSPORTATION	SUMMARY OF QUANTITIES				F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
Y:\12015 MD 1 Glen Crest Creek\DDM\Design\Drawings\Plots\state\0160V29-003-011-500.dgn	JR	DRAWN -	REVISED -		SCALE: N/A	SHEET 5	OF 9	SHEETS	870	534X-8	DUPAGE	66	7
#MODELNAME	PLOT SCALE - 100.0000' / 1" =	CHECKED -	REVISED -						CONTRACT NO. 60V29				
	PLOT DATE - 8/6/2015	DATE -	REVISED -						ILLINOIS FED. AID PROJECT				

CODE NO.	ITEM	UNIT	TOTAL QUANTITY	CONSTRUCTION CODE		
				80% FED. 20% STATE	100% GLEN ELLYN	80% FED. 20% STATE
				ROADWAY	GLEN ELLYN	BRIDGE
				0004	0020	0040
				URBAN	URBAN	URBAN
60236200	INLETS, TYPE A, TYPE 8 GRATE	EACH	1	1		
60240312	INLETS, TYPE B, TYPE 11V FRAME AND GRATE	EACH	2	2		
60603800	COMBINATION CONCRETE CURB AND GUTTER, TYPE B-6.12	FOOT	75	75		
60605000	COMBINATION CONCRETE CURB AND GUTTER, TYPE B-6.24	FOOT	246	246		
60608562	COMBINATION CONCRETE CURB AND GUTTER, TYPE M-4.12	FOOT	460	460		
60610400	COMBINATION CONCRETE CURB AND GUTTER, TYPE M-6.24	FOOT	379	379		
* 63000001	STEEL PLATE BEAM GUARDRAIL, TYPE A, 6 FOOT POSTS	FOOT	362.5	362.5		
* 63000360	LONG-SPAN GUARDRAIL OVER CULVERT, 18 FT 9 IN SPAN	FOOT	337.5	337.5		
* 63100167	TRAFFIC BARRIER TERMINAL, TYPE 1 (SPECIAL) TANGENT	EACH	3	3		
* 63100169	TRAFFIC BARRIER TERMINAL, TYPE 1 (SPECIAL) FLARED	EACH	1	1		
63200310	GUARDRAIL REMOVAL	FOOT	280	280		
* 66900200	NON-SPECIAL WASTE DISPOSAL	CU YD	964	964		
* 66900450	SPECIAL WASTE PLANS AND REPORTS	L SUM	1	1		
* 66900530	SOIL DISPOSAL ANALYSIS	EACH	1	1		

14
* SPECIALTY ITEM

EFK Moen, LLC
Civil Engineering Design

FILE NAME = Y:\13015 WD 1 Glen Crest Creek\DDM\Design	USER NAME = jd	DESIGNED - BJC	REVISED -
\\pralin\plotsheets\0160V29-003-011-500.dgn		DRAWN - BJC	REVISED -
PLOT SCALE = 100.0000' / 1"		CHECKED - SLO	REVISED -
PLOT DATE = 8/6/2015		DATE - 8/6/2015	REVISED -

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

SUMMARY OF QUANTITIES

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
870	534X-B	DUPAGE	66	8
			CONTRACT NO. 60V29	
ILLINOIS FED. AID PROJECT				

SCALE: N/A SHEET 6 OF 9 SHEETS

CODE NO.	ITEM	UNIT	TOTAL QUANTITY	CONSTRUCTION CODE		
				80% FED.	100% GLEN ELLYN	80% FED.
				20% STATE	GLEN ELLYN	20% STATE
				ROADWAY	BRIDGE	BRIDGE
				0004	0026	0040
				URBAN	URBAN	URBAN
* 78100100	RAISED REFLECTIVE PAVEMENT MARKER	EACH	32	32		
78100200	TEMPORARY RAISED REFLECTIVE PAVEMENT MARKER	EACH	44	44		
78100300	REPLACEMENT REFLECTOR	EACH	12	12		
78200100	MONODIRECTIONAL PRISMATIC BARRIER REFLECTOR	EACH	32	32		
* 78200410	GUARDRAIL MARKERS, TYPE A	EACH	11	11		
* 78201000	TERMINAL MARKER - DIRECT APPLIED	EACH	4	4		
78300100	PAVEMENT MARKING REMOVAL	SQ FT	1096	1096		
X0326694	PLUG EXISTING STORM SEWERS	CU YD	2	2		
X4401198	HOT MIX ASPHALT SURFACE REMOVAL, VARIABLE DEPTH	SQ YD	1023	1023		
X6022050	MANHOLES, TYPE A, 5'-DIAMETER, TYPE 11V FRAME AND GRATE	EACH	1	1		
X6640530	CHAIN LINK FENCE, 5' ATTACHED TO STRUCTURE	FOOT	89			89
X7010216	TRAFFIC CONTROL AND PROTECTION, (SPECIAL)	L SUM	1	1		
X7040125	PINNING TEMPORARY CONCRETE BARRIER	EACH	402	402		
X7830050	RAISED REFLECTIVE PAVEMENT MARKER, REFLECTOR REMOVAL	EACH	12	12		

* SPECIALTY ITEM

FILE NAME :	USER NAME : jd	DESIGNED - BJC	REVISED -
Y:\13015 MO 1 Glen Crest Creek\00N\Design\Prin\Platsheta\0160V29-003-011-500.dgn	DRAWN - BJC	REVISIONS -	
	CHECKED - SLD	REVISIONS -	
MODEL NAME :	DATE - 8/6/2015	REVISIONS -	

**STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION**

SUMMARY OF QUANTITIES			
SCALE: N/A	SHEET 8	OF 9	SHEETS

Rev.

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
870	534X-B	DUPAGE	66	10
ILLINOIS FED. AID PROJECT			CONTRACT NO. 60V29	

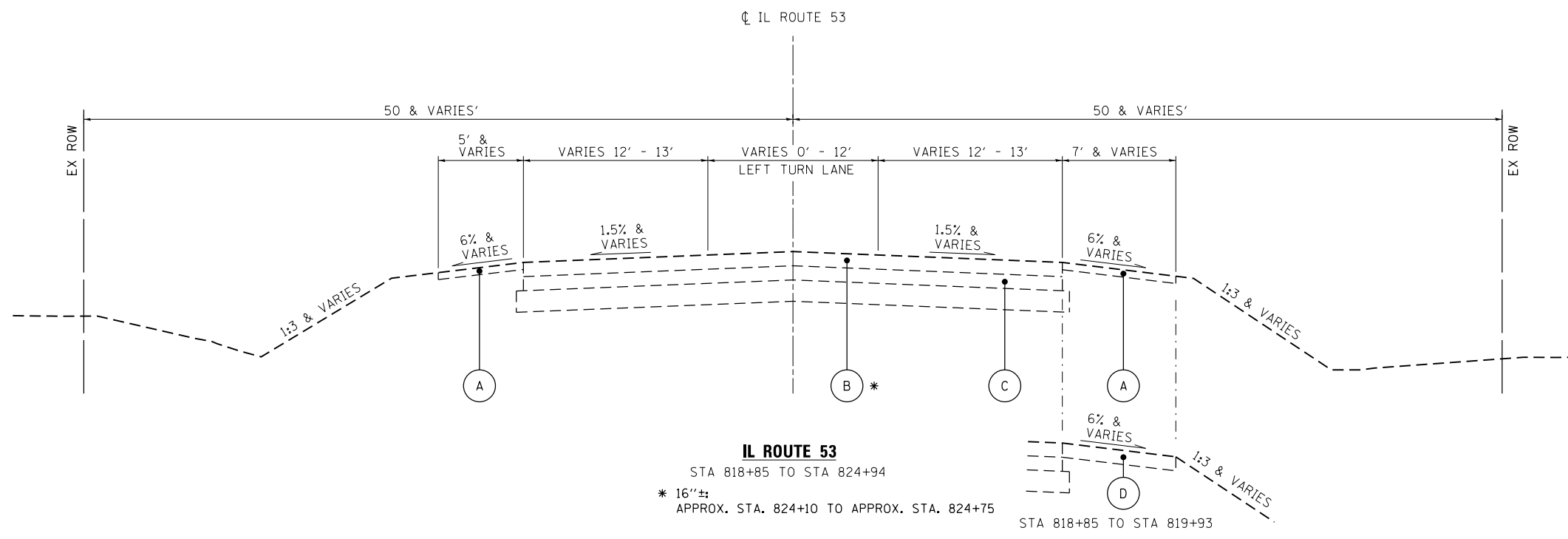
EFK Moen, LLC
Civil Engineering Design

CODE NO.	ITEM	UNIT	TOTAL QUANTITY	CONSTRUCTION CODE		
				80% FED. ROADWAY	100% GLEN ELLYN	80% FED. BRIDGE
				20% STATE	0028	0040
				URBAN	URBAN	URBAN
Z0013798	CONSTRUCTION LAYOUT	L SUM	1	1		
Z0018700	DRAINAGE STRUCTURE TO BE REMOVED	EACH	4	4		
Z0026407	TEMPORARY SHEET PILING	50 FT	4654	3491		1163
Z0056608	STORM SEWER (WATER MAIN REQUIREMENTS) 12 INCH	FOOT	81	81		
Z0056612	STORM SEWER (WATER MAIN REQUIREMENTS) 18 INCH	FOOT	104	104		
Z0056616	STORM SEWER (WATER MAIN REQUIREMENTS) 24 INCH	FOOT	205	205		
Z0056622	STORM SEWER (WATER MAIN REQUIREMENTS) 36 INCH	FOOT	167	167		
Z0062456	TEMPORARY PAVEMENT	50 YD	1084	1084		
Z0073400	TEMPORARY SUPPORT SYSTEM	EACH	1			1
Z0076600	TRAINEES	HOUR	500	500		
Z0076604	TRAINEES TRAINING PROGRAM GRADUATE	HOUR	500	500		

* SPECIALTY ITEM
0 0042

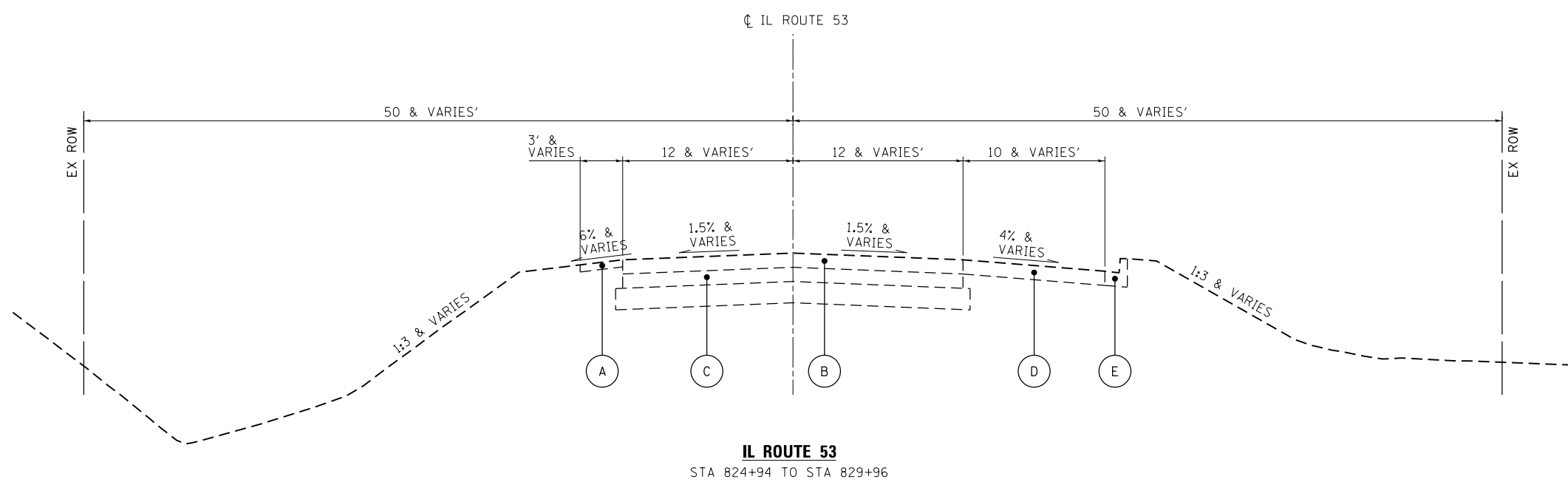
EFK Moen, LLC
Civil Engineering Design

FILE NAME : I:\13015 MO 1 Glen Creek Creek\DDH\Design\Drawings\13015 MO 1 Glen Creek Creek\0160V29-003-011-500.dgn	USER NAME : jd	DESIGNED - BJG	REVISIONS - -	STATE OF ILLINOIS DEPARTMENT OF TRANSPORTATION	SUMMARY OF QUANTITIES			F.A.P. RATE: 870	SECTION: 534X-B	COUNTY: DUPAGE	TOTAL SHEETS: 66	SHEET NO.: 11
PLOT SCALE : 100.0000 / 1" = 100'	CHECKED - SLD	REVISIONS - -	SCALE: N/A					SHEET 9	OF 9	SHEETS	CONTRACT NO. 60V29	
#MODELNAME:	PLOT DATE : 8/6/2015	DATE : 8/6/2015	REVISIONS - -		[ILLINOIS] FED. AID PROJECT							



LEGEND
EXISTING

- (A) AGGREGATE SHOULDER
- (B) HOT-MIX ASPHALT CONCRETE SURFACE, 8" ±
- (C) PCC PAVEMENT, 8" ±
- (D) HOT-MIX ASPHALT SHOULDER
- (E) COMBINATION CONCRETE CURB AND GUTTER, TYPE B-6.12



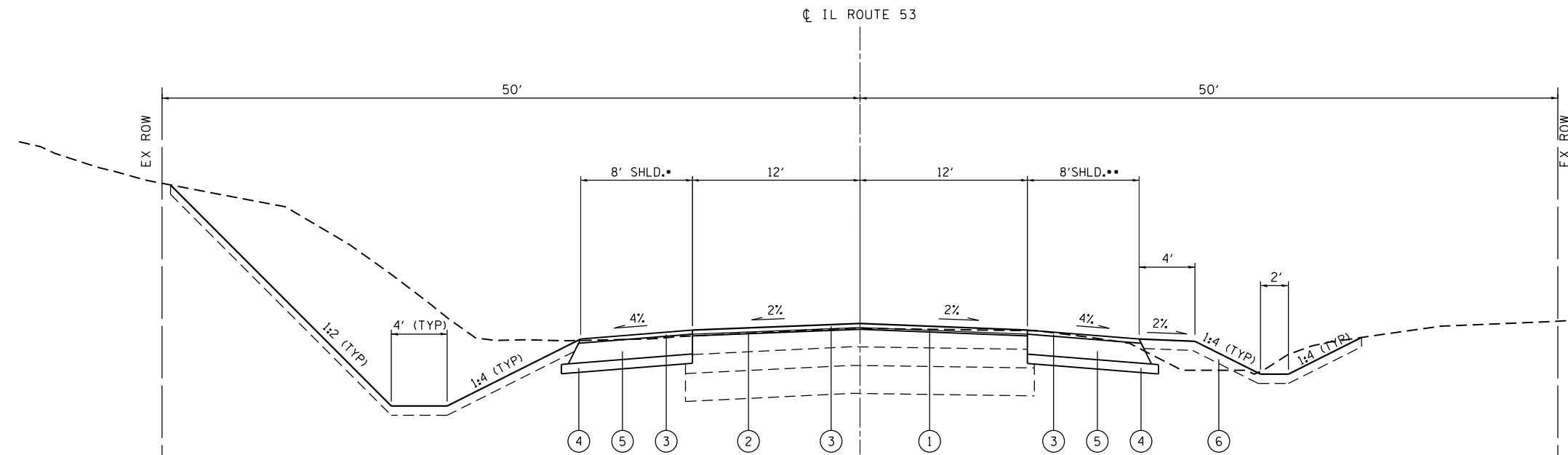
NOTES:
EXISTING TYPICALS BASED ON CONTRACT 60N43

EFK Moen, LLC
Civil Engineering Design

FILE NAME =	USER NAME = jd	DESIGNED - T.H.G.	REVISED -	STATE OF ILLINOIS DEPARTMENT OF TRANSPORTATION	IL ROUTE 53 OVER GLEN CREST CREEK EXISTING TYPICALS	F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.	
Y:\13015 WO 1 Glen Crest Creek\Design\Pre\m\Plot\015-typicals.dgn	Y:\13015 WO 1 Glen Crest Creek\Design\Pre\m\Plot\015-typicals.dgn	DRAWN - E.D.	REVISED -			870	534X-B	DUPAGE	66	12	
MODELNAME	PLOT SCALE = 10.0000' / in.	CHECKED - P.S.	REVISED -			CONTRACT NO. 60V29					
	PLOT DATE = 8/6/2015	DATE - 8/6/2015	REVISED -			SCALE: N.T.S.	SHEET 1	OF 4 SHEETS	STA.	TO STA.	ILLINOIS FED. AID PROJECT

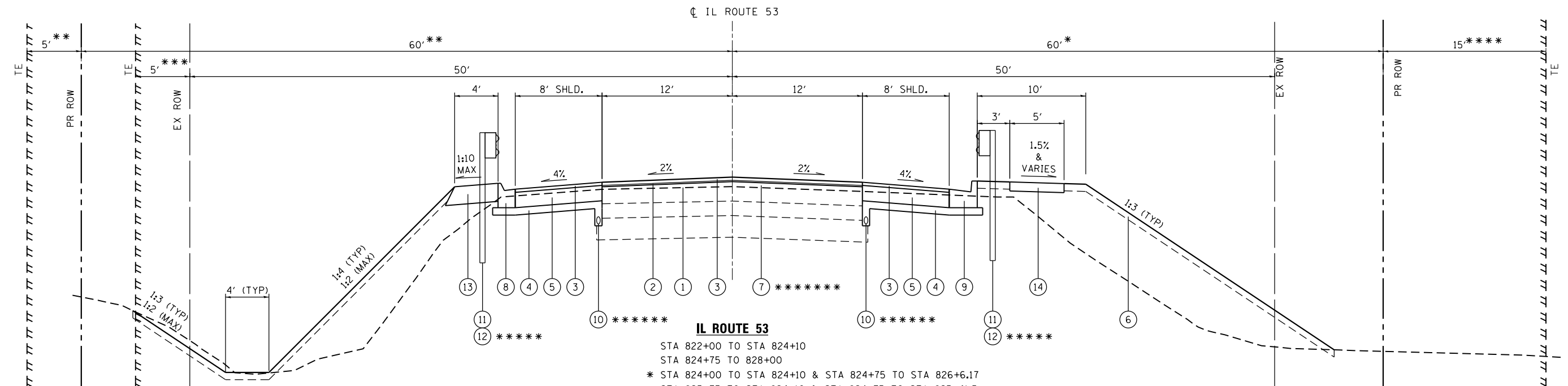
PROPOSED

- ① HOT-MIX ASPHALT SURFACE REMOVAL, 2 1/2"
- ② LEVELING BINDER (MACHINE METHOD), N70 (3/4")
- ③ POLYMERIZED HOT-MIX ASPHALT SURFACE COURSE, MIX "E", N70 (1 3/4")
- ④ SUBBASE GRANULAR MATERIAL, TYPE B 4" (6" BEYOND OUTER SHOULDER EDGE OR BACK-OF-CURB)
- ⑤ HOT-MIX ASPHALT SHOULDERS, 8 1/4"
- ⑥ TOPSOIL FURNISH AND PLACE, 4"
- ⑦ HOT-MIX ASPHALT BINDER COURSE, IL-19.0, N70 VARIABLE
- ⑧ COMBINATION CONCRETE CURB AND GUTTER, TYPE M-4.12
- ⑨ COMBINATION CONCRETE CURB AND GUTTER, TYPE B-6.24 OR TYPE M-6.24
- ⑩ PIPE UNDERDRAINS 4"
- ⑪ STEEL PLATE BEAM GUARDRAIL, TYPE A, 6 FOOT POSTS
- ⑫ LONG-SPAN GUARDRAIL OVER CULVERT, 18 FT 9 IN SPAN *****
- ⑬ AGGREGATE SHOULDERS, TYPE B 10"
- ⑭ PORTLAND CEMENT CONCRETE SIDEWALK 5"
- ⑮ STRIP REFLECTIVE CRACK CONTROL TREATMENT (TO ACCOMMODATE STAGE CONSTRUCTION LINE)
- ⑯ HOT-MIX ASPHALT BASE COURSE, 7 1/2"
- ⑰ AGGREGATE SUBGRADE IMPROVEMENT, 12"
- ⑱ COMBINATION CONCRETE CURB AND GUTTER, TYPE B-6.12



IL ROUTE 53

STA 818+98 TO STA 822+00
 * SHOULDER ONLY STA 818+98 - STA 821+00 (LT)
 ** SHOULDER ONLY STA 819+48 - STA 821+00 (RT)



IL ROUTE 53

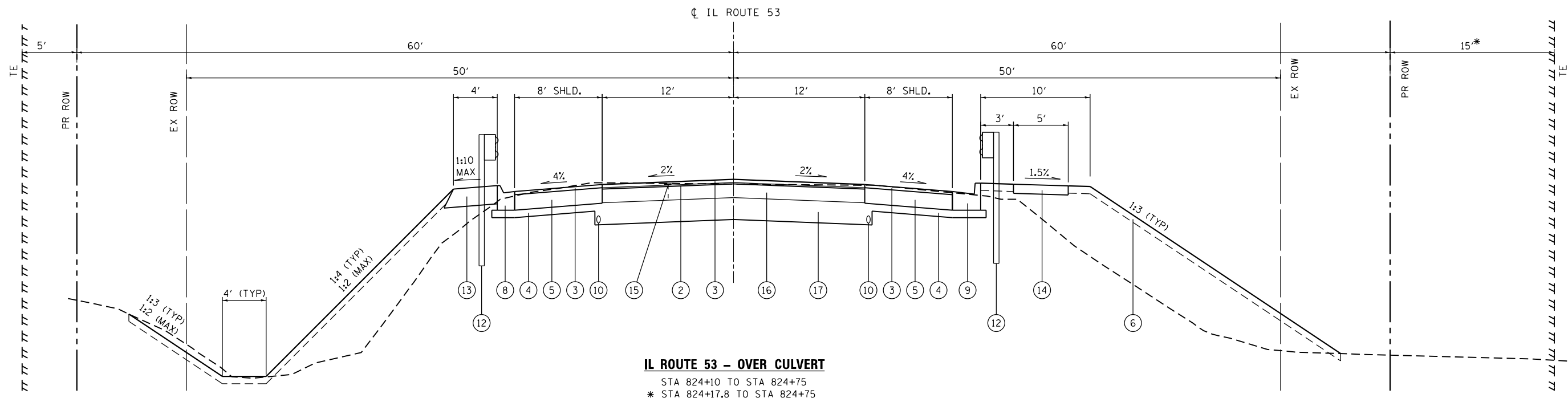
STA 822+00 TO STA 824+10
 STA 824+75 TO 828+00
 * STA 824+00 TO STA 824+10 & STA 824+75 TO STA 826+6.17
 ** STA 823+73 TO STA 824+10 & STA 824+75 TO STA 825+41.5
 *** STA 825+41.5 TO STA 827+09.5
 **** STA 824+75 TO STA 824+87.2
 ***** LONG SPAN GUARDRAIL OVER CULVERT, 18FT 9IN SPAN:
 LT- STA 823+48.90 TO 825+17.65
 RT- STA 823+69.18 TO 825+37.93
 ***** PIPE UNDERDRAINS 4":
 LT- STA 823+88.88 TO 824+75.00
 RT- STA 824+08.88 TO 824+75.00
 ***** STA 823+18 TO 824+10 & 824+75 TO STA 827+42

NOTES:

- 1. SEE PLAN & PROFILE SHEET FOR LIMITS OF GUARDRAIL AND COMBINATION CURB & GUTTER.

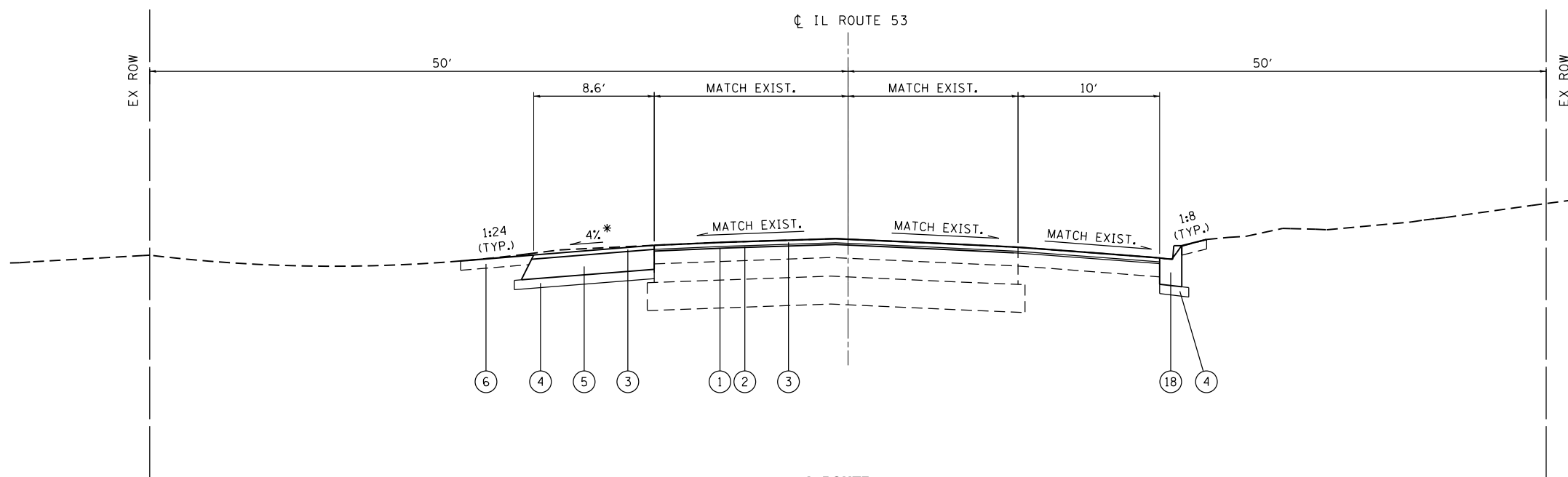
EFK Moen, LLC
 Civil Engineering Design

FILE NAME = Y:\13015 WO 1 Glen Crest Creek\Design\Final\Plotsheets\160V29-012-015-typicals.dgn	USER NAME = sf	DESIGNED - JRD	REVISED -	STATE OF ILLINOIS DEPARTMENT OF TRANSPORTATION	PROPOSED TYPICALS			F.A.P. RTE. = 870	SECTION = 534X-B	COUNTY = DUPAGE	TOTAL SHEETS = 66	SHEET NO. = 13
MODELNAME	PLOT SCALE = 10.0000 ' / in.	CHECKED - SLD	REVISED -		SCALE: N.T.S.	SHEET 2	OF 4 SHEETS	CONTRACT NO. 60V29				
	PLOT DATE = 9/21/2015	DATE = 8/6/2015	REVISED -		ILLINOIS FED. AID PROJECT							



IL ROUTE 53 - OVER CULVERT

STA 824+10 TO STA 824+75
 * STA 824+17.8 TO STA 824+75



IL ROUTE 53

STA 828+00 TO STA 829+32
 * MATCH EXIST. @ STA. 829+32

PROPOSED

- ① HOT-MIX ASPHALT SURFACE REMOVAL, 2 1/2"
- ② LEVELING BINDER (MACHINE METHOD), N70 (3/4")
- ③ POLYMERIZED HOT-MIX ASPHALT SURFACE COURSE, MIX "E", N70 (1 3/4")
- ④ SUBBASE GRANULAR MATERIAL, TYPE B 4" (6" BEYOND OUTER SHOULDER EDGE OR BACK-OF-CURB)
- ⑤ HOT-MIX ASPHALT SHOULDERS, 8 1/4"
- ⑥ TOPSOIL FURNISH AND PLACE, 4"
- ⑦ HOT-MIX ASPHALT BINDER COURSE, IL-19.0, N70 VARIABLE
- ⑧ COMBINATION CONCRETE CURB AND GUTTER, TYPE M-4.12
- ⑨ COMBINATION CONCRETE CURB AND GUTTER, TYPE B-6.24 OR TYPE M-6.24
- ⑩ PIPE UNDERDRAINS 4"
- ⑪ STEEL PLATE BEAM GUARDRAIL, TYPE A, 6 FOOT POSTS
- ⑫ LONG-SPAN GUARDRAIL OVER CULVERT, 18 FT 9 IN SPAN *****
- ⑬ AGGREGATE SHOULDERS, TYPE B 10"
- ⑭ PORTLAND CEMENT CONCRETE SIDEWALK 5"
- ⑮ STRIP REFLECTIVE CRACK CONTROL TREATMENT (TO ACCOMMODATE STAGE CONSTRUCTION LINE)
- ⑯ HOT-MIX ASPHALT BASE COURSE, 7 1/2"
- ⑰ AGGREGATE SUBGRADE IMPROVEMENT, 12"
- ⑱ COMBINATION CONCRETE CURB AND GUTTER, TYPE B-6.12

NOTES:

- 1. SEE PLAN & PROFILE SHEET FOR LIMITS OF GUARDRAIL AND COMBINATION CURB & GUTTER.

FILE NAME =	USER NAME = sf	DESIGNED - JRD	REVISED -
Y:\13015 WO 1 Glen Crest Creek\Design\Final\Plotsheets\0160\29-012-015-typicals.dgn		DRAWN - DWB	REVISED -
	PLOT SCALE = 10.0000' / in.	CHECKED - SLD	REVISED -
MODELNAME	PLOT DATE = 9/21/2015	DATE - 8/6/2015	REVISED -

**STATE OF ILLINOIS
 DEPARTMENT OF TRANSPORTATION**

PROPOSED TYPICALS

SCALE: N.T.S. SHEET 3 OF 4 SHEETS

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
870	534X-B	DUPAGE	66	14
CONTRACT NO. 60V29				
ILLINOIS FED. AID PROJECT				

EFK Moen, LLC
 Civil Engineering Design

HOT-MIX ASPHALT MIXTURE REQUIREMENTS		QUALITY MANAGEMENT PROGRAM (QMP)
MIXTURE TYPE	AIR VOIDS @ Ndes	
PAVEMENT RESURFACING		
POLYMERIZED HOT-MIX ASPHALT SURFACE COURSE, MIX "E", N70 (IL 9.5 mm)	4% @ 70 GYR	QC/OA
LEVELING BINDER (MACHINE METHOD), N70 (IL 9.5mm)	4% @ 70 GYR	QC/OA
HOT-MIX ASPHALT BINDER COURSE, IL-19.0, N70; 2-1/4" Min.	4% @ 70 GYR	QC/OA
PAVEMENT RECONSTRUCTION		
POLYMERIZED HOT-MIX ASPHALT SURFACE COURSE, MIX "E", N70 (IL 9.5 mm), 1-3/4"	4% @ 70 GYR	QC/OA
LEVELING BINDER (MACHINE METHOD), N70 (IL 9.5mm); 3/4"	4% @ 70 GYR	QC/OA
HOT-MIX ASPHALT BINDER COURSE, IL-19.0, N70; 7-1/2"	4% @ 70 GYR	QC/OA
SHOULDER RECONSTRUCTION		
POLYMERIZED HOT-MIX ASPHALT SURFACE COURSE, MIX "E", N70 (IL 9.5 mm), 1-3/4"	4% @ 70 GYR	QC/OA
HOT-MIX ASPHALT SHOULDER (HOT-MIX ASPHALT BINDER IL-19 mm); 8-1/4", 2-1/4" Min.	4% @ 70 GYR	QC/OA
PAVEMENT PATCHING		
CLASS D PATCH (HMA BINDER IL-19 mm), 10" (3 LIFTS)	4% @ 70 GYR	QC/OA
SIDE ROAD RECONSTRUCTION		
POLYMERIZED HOT-MIX ASPHALT SURFACE COURSE, MIX "E", N70 (IL 9.5 mm), 1-3/4"	4% @ 70 GYR	QC/OA
HOT-MIX ASPHALT BASE COURSE (HOT-MIX ASPHALT BINDER IL-19 mm), 8-1/4", 2-1/4" Min.	4% @ 70 GYR	QC/OA
DRIVEWAY RECONSTRUCTION		
HOT-MIX ASPHALT SURFACE COURSE, MIX "D", N50 (IL 9.5 mm), 2"	4% @ 50 GYR	QC/OA
HOT-MIX ASPHALT BASE COURSE (HOT-MIX ASPHALT BINDER IL-19 mm), 6", 2-1/4" Min.	4% @ 50 GYR	QC/OA
TEMPORARY PAVEMENT		
HOT-MIX ASPHALT SURFACE COURSE, MIX "D", N50 (IL 9.5 mm), 2"	4% @ 50 GYR	QC/OA
TEMP PAVEMENT (HOT-MIX ASPHALT BINDER IL-19 mm), 10", 2-1/4" Min.	4% @ 50 GYR	QC/OA
QMP DESIGNATION: QUALITY CONTROL/QUALITY ASSURANCE (QC/OA)		

- MIXTURE NOTES:
1. THE UNIT WEIGHT USED TO CALCULATE ALL HMA SURFACE COURSE AND BINDER COURSE MIXTURE QUANTITIES IS 112 LBS/SQ YD/IN.
 2. THE "AC TYPE" FOR POLYMERIZED HMA MIXES SHALL BE "SBS/SBR PG 76-22" AND FOR NON-POLYMERIZED HMA THE "AC TYPE" SHALL BE "PG 64-22" UNLESS MODIFIED BY DISTRICT ONE SPECIAL PROVISIONS FOR USE OF RECYCLED MATERIALS, SEE SPECIAL PROVISIONS.
 3. QUALITY MANAGEMENT PROGRAM (QMP) IDENTIFIES THE PARTICULAR QUALITY CONTROL SPECIFICATION THAT APPLIES TO THE HMA MIXTURE.
 4. PCC TEMPORARY PAVEMENT SHALL CONSIST OF CLASS PV CONCRETE MEETING THE CURRENT REQUIREMENTS OF ART. 1020 OF THE STANDARD SPECIFICATIONS; 10" THICK.
 5. REFER TO DRAINAGE PLAN FOR THE LOCATION OF PAVEMENT PATCHES TO BE CONSTRUCTED UNDER THIS CONTRACT.
 6. CLASS D PATCHES SHALL BE DONE PRIOR TO MILLING & OVERLAY OPERATIONS.

EFK•Moen, LLC
Civil Engineering Design

FILE NAME =	USER NAME = sf	DESIGNED - JRD	REVISED -	STATE OF ILLINOIS DEPARTMENT OF TRANSPORTATION	PROPOSED TYPICALS	F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.	
Y:\13015 WO 1 Glen Crest Creek\Design\Final\Plotsheets\160V29-012-015-typicals.dgn	DRAWN - DWB	REVISED -	870			534X-B	DUPAGE	66	15		
MODELNAME	PLOT SCALE = 10.0000 ' / in.	CHECKED - SLD	REVISED -			CONTRACT NO. 60V29					
	PLOT DATE = 9/21/2015	DATE - 8/6/2015	REVISED -			SCALE: N.T.S.	SHEET 4	OF 4	SHEETS	ILLINOIS FED. AID PROJECT	

SEEDING SCHEDULE									
LOCATION		SEEDING CL 1A (ACRE)	SEEDING CL 4 (ACRE)	NITROGEN FERTILIZER NUTRIENT (POUND)	PHOSPHORUS FERTILIZER NUTRIENT (POUND)	POTASSIUM FERTILIZER NUTRIENT (POUND)	MULCH METHOD 2 (ACRE)	TEMPORARY SEEDING (POUND)	TOPSOIL FURNISH & PLACE-4" (SQ YD)
RT	818+98.00 TO 823+50.00	0.2		18	18	18	0.2		
LT	818+98.00 TO 822+00.00	0.2		18	18	18	0.2		
RT	823+50.00 TO 825+50.00		0.25						
LT	822+00.00 TO 825+50.00		0.25						
RT	825+50.00 TO 830+10.50	0.17		15.5	15.5	15.5	0.17		
LT	825+50.00 TO 829+32.00	0.18		16.5	16.5	16.5	0.18		
LT/RT	818+98.00 TO 830+10.50							250	
RT	818+98.00 TO 830+10.50								1,828
LT	818+98.00 TO 829+32.00								2,102
TOTAL		0.75	0.5	68	68	68	0.75	250	3,930

EARTHWORK SCHEDULE						
LOCATION (STATION TO STATION)	EARTH EXCAVATION (CU YD)	FOR INFORMATION ONLY			CHANNEL EXCAVATION (CU YD)	NON-SPECIAL WASTE DISPOSAL (CU YD)
		EARTH EXCAVATION ADJUSTED FOR 15% SHRINKAGE (CU YD)	EMBANKMENT (CU YD)	EARTHWORK BALANCE WASTE (+) SHORTAGE (-) (CU YD)		
818+85 TO 829+32	2,140	1,820	1,785	35		35
GABION INSTALLATION					54	54
RIPRAP A4 INSTALLATION					141	141
RIPRAP A5 INSTALLATION					169	169
STORM SEWER INSTALLATION						565
TOTAL	2,140				364	964

DRAINAGE REMOVAL SCHEDULE							
LOCATION		PIPE CULVERT REMOVAL (FOOT)	DRAINAGE STRUCTURE REMOVAL (EACH)	STORM SEWER REMOVAL 18" (FOOT)	STORM SEWER REMOVAL 15" (FOOT)	PLUG EXISTING STORM SEWER (CU YD)	TRENCH BACKFILL (SS REM) (CU YD)
RT	820+11.62(05-26.64') TO 820+31.90(05-26.82)	21					
RT	821+78.59(05-26.72') TO 822+51.23(05-25.27')	73					
RT	822+30.79(05-68.80') TO 822+31.88(05-42.51')	27					
RT	826+98.76 (OFFSET 39.44')		1				
RT	826+98.89 (OFFSET 23.55')		1				
LT	828+61.03 (OFFSET 25.21')		1				
RT	828+77.80 (OFFSET 30.53')		1				
LT	827+52.10(05-23.16') TO 828+61.03(05-25.21')			109			
LT	828+61.03(05-25.21') TO 828+70.28(05-25.52')			11			
RT	824+70.15(05-40.62') TO 826+98.76(05-39.44')				229		
RT	826+98.76(05-39.44') TO 826+98.89(05-23.55')				16		
RT	826+98.76(05-39.44') TO 828+37.77(05-32.51')				140		
RT	828+77.76(05-30.51') TO 830+07.07(05-29.34')				131		
RT	828+37.77(05-32.51) TO 828+77.76(05-30.51)					2	
RT	** 821+84.30 TO 822+52.01						4.4
TOTAL		121	4	120	516	2	4.4

**NOTE: INDICATED QUANTITY REPRESENTS ADDITIONAL TRENCH BACKFILL NEEDED BEYOND CALCULATED TRENCH BACKFILL FOR PROPOSED PIPES 1 TO 3 & 2 TO 3 (REFER TO STORM SEWER SCHEDULE).

SHEET PILING SCHEDULE		
LOCATION (STA. TO STA.)		TEMPORARY SHEET PILING (SQ FT)
818+85	829+10	3,491
BRIDGE		1,163
TOTAL		4,654

TREE REMOVAL SCHEDULE		
LOCATION		TREE REMOVAL (ACRE)
LT	819+54.95 TO 824+17.62	0.2
LT	824+13.87 TO 828+13.70	0.3
RT	822+63.33 TO 824+29.46	0.1
RT	826+23.55 TO 827+21.91	0.1
TOTAL		0.7

GUARDRAIL SCHEDULE									
LOCATION (STATION TO STATION)			GUARDRAIL REMOVAL (FOOT)	TRAFFIC BARRIER TERMINAL TYPE 1 (SPECIAL) TANGENT (EACH)	TRAFFIC BARRIER TERMINAL TYPE 1 (SPECIAL) FLARED (EACH)	STEEL PLATE BEAM GUARDRAIL TYPE A, 6' POSTS (FOOT)	LONG-SP GUARDRAIL OVER CULVERT 18 FT 9 IN (FOOT)	TERMINAL MARKER DIRECT APPLIED (EACH)	GUARDRAIL MARKER TYPE A (EACH)
823+47.80	824+88.09	RT	141						
823+92.54	825+31.24	LT	139						
822+86.41	823+36.40	LT		1					
823+19.19	823+69.18	RT		1					
826+37.93	826+87.92	RT		1					
827+67.65	828+17.27	LT			1				
823+36.40	823+48.90	LT				12.5			
825+17.65	827+67.65	LT				250			
825+37.93	826+37.93	RT				100			
823+48.90	825+17.65	LT					168.75		
823+69.18	825+37.93	RT					168.75		
822+86.41		LT						1	
828+17.48		LT						1	
823+19.19		RT						1	
826+87.92		RT						1	
822+86.41	828+17.48	LT							6
823+19.19	826+87.92	RT							5
TOTAL			280	3	1	362.5	337.5	4	11

(FOR GUARDRAIL MARKERS - NOTE: EVERY 80' FOR THE FIRST 400', THEN EVERY 400' PER HWY. STD. 635001)

EFK Moen, LLC
Civil Engineering Design

FILE NAME =	USER NAME = jd	DESIGNED - BJB	REVISED -	STATE OF ILLINOIS DEPARTMENT OF TRANSPORTATION	SCHEDULE OF QUANTITIES			F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
Y:\13015 WO 1 Glen Crest Creek\Design\Prelim\Plotsheets\160V29-016-021-schedule.dwg	DRAWN - BJB	REVISED -	870					534X-B	DUPAGE	66	16	
#MODELNAME#	PLOT SCALE = 100.0000' / 1" =	CHECKED - SLD	REVISED -					CONTRACT NO. 60V29				
	PLOT DATE = 8/6/2015	DATE - 8/6/2015	REVISED -					ILLINOIS	FED. AID PROJECT			
				SCALE: N/A	SHEET 1	OF 6	SHEETS					

EROSION CONTROL SCHEDULE

LOCATION	PERIMETER EROSION BARRIER (FOOT)	TEMPORARY DITCH CHECKS (FOOT)	HEAVY DUTY EROSION CONTROL BLANKET (SQ YD)	GABIONS (CU YD)	FILTER FABRIC (SQ YD)	STONE RIPRAP CLASS A4 (SQ YD)	STONE RIPRAP CLASS A5 (SQ YD)	INLET AND PIPE PROTECTION (EACH)
RT 818+85.00 TO 830+10.50			1,889					
LT 818+85.00 TO 829+32.00			2,248					
LT 823+00.00 TO 824+20.90	127							
LT 823+94.53 TO 824+33.56	51							
RT 823+89.11 TO 824+58.44	110							
RT 824+71.62 TO 827+75.00	316							
LT 818+90		10						
LT 819+00		11.6						
LT 819+45		10.6						
LT 819+90		10.4						
LT 820+20		10.4						
LT 820+50		10.4						
LT 820+80		10.4						
LT 821+10		10.4						
LT 821+80		10.4						
LT 822+35		10.4						
LT 822+90		12.8						
LT 824+75		9.8						
LT 825+00		9.4						
LT 825+30		10.6						
LT 825+60		11						
LT 825+90		10.1						
LT 826+20		10.7						
LT 826+50		11.9						
LT 826+80		10.4						
LT 827+00		9.4						
LT 827+10		9.8						
LT 827+20		10.2						
LT 827+30		10.5						
LT 827+40		10.9						
LT 827+50		11.2						
LT 827+60		11.1						
LT 827+70		10.9						
LT 827+80		10.7						
LT 827+90		10.5						
LT 828+00		10.3						
RT 819+68		10						
RT 820+00		12						
RT 820+50		12						
RT 821+00		12						
RT 824+35		12						
LT 824+24.74 TO 824+63.29					47			
LT 824+24.74 TO 824+63.29				26				
RT 824+18.75 (OFFSET- 49.38')					37			
LT 823+88.88 (OFFSET-31.92')					18			
LT 826+92.77 (OFFSET-29.32')					101			
RT 824+18.75 (OFFSET- 49.38')						37		
LT 823+88.88 (OFFSET-31.92')						18		
LT 826+92.77 (OFFSET-29.32')						101		
LT 824+05.20 TO 824+18.67					14			
LT 824+13.08 TO 824+72.49					76			
RT 824+39.24 TO 824+65.42					42			
RT 824+70.58 TO 825+00.00					56			
LT 824+05.20 TO 824+18.67							14	
LT 824+13.08 TO 824+72.49							76	
RT 824+39.24 TO 824+65.42							42	
RT 824+70.58 TO 825+00.00							56	
LT 823+88.88								1
LT 827+00.00								1
LT 828+70.28								1
RT 821+50.00								1
RT 822+30.63								1
RT 822+54.97								1
RT 823+88.88								1
RT 824+08.88								1
RT 827+00.00								1
RT 828+26.88								1
RT 828+71.93								1
RT 828+73.75								1
RT 828+91.34								1
RT 83007.07								1
TOTAL	604	375	4,137	26	391	156	188	14

SIDEWALK SCHEDULE				
LOCATION (STATION TO STATION)			SIDEWALK REMOVAL (SQ FT)	PORTLAND CEMENT CONCRETE SIDEWALK -5" (SQ FT)
RT 828+10.74	828+31.84		318	
RT 828+84.51	828+95.81		172	
RT 822+35.50	828+38.42			3,268
RT 828+77.93	828+90.07			148
TOTAL			490	3,416

FILE NAME =	USER NAME = j_d	DESIGNED - BJB	REVISED -
Y:\13015 WO 1 Glen Crest Creek\Design\Pre\1m\Plotsheets\DI60V29-016-021-schedule.dwg		DRAWN - BJB	REVISED -
#MODELNAME#	PLOT SCALE = 100.0000' / 1in.	CHECKED - SLD	REVISED -
	PLOT DATE = 8/6/2015	DATE - 8/6/2015	REVISED -

**STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION**

SCHEDULE OF QUANTITIES	
SCALE: N/A	SHEET 2 OF 6 SHEETS

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
870	534X-B		66	17
			CONTRACT NO. 60V29	
ILLINOIS FED. AID PROJECT				

EFK Moen, LLC
Civil Engineering Design

COMBINATION CURB AND GUTTER SCHEDULE

LOCATION	TYPE B 6.12 (FOOT)	TYPE B 6.24 (FOOT)	TYPE M 4.12 (FOOT)	TYPE M 6.24 (FOOT)	COMBINATION CURB & GUTTER REMOVAL (FOOT)
RT 828+71.50 TO 829+32.00	75				
RT 822+28.10 TO 823+14.19		96			
RT 826+92.92 TO 828+38.43		150			
RT 823+14.19 TO 826+92.92				379	
LT 823+79.13 TO 828+26.70			460		
RT 822+30.63 (OFFSET 72.67')					
RT 828+73.75 (OFFSET 38.02)					
RT 828+71.73 (OFFSET 44.3')					
RT 824+91.45 TO 828+38.35					351
RT 828+71.50 TO 829+32.00					76
TOTAL	75	246	460	379	427

END SECTION SCHEDULE

DRAINAGE PLAN STRUCTURE NUMBER	LOCATION		END SECTION INVERT ELEVATION (@ PIPE CONNECTION)	PRC FLAR END SEC 24 (EACH)	PRC FL END S EO RS 48 (EACH)	END SEC 15 (EACH)
	STATION	OFFSET				
8	STA. 823+88.88	31.92' LT.	708.80	1		
17	STA. 826+92.77	29.32' LT.	712.00		1	
19	STA. 820+11.23	33.43' RT.	717.39			1
20	STA. 820+37.67	33.37' RT.	716.23			1
TOTAL				1	1	2

DRAINAGE STRUCTURE SCHEDULE

DRAINAGE PLAN STRUCTURE NUMBER	LOCATION		STRUCTURE CASTING TOP ELEVATION (FEET)	STRUCTURE CASTING FLOWLINE ELEVATION (FEET)	LOWEST PIPE INVERT ELEVATION (FEET)	INLETS TA T8G (EACH)	INLETS TB T11V F&G (EACH)	MAN TA 4 DIA T1F CL (EACH)	MAN TA 4 DIA T3V F&G (EACH)	MAN TA 4 DIA T8G (EACH)	MAN TA 4 DIA T12F&G (EACH)	MAN TA 4 DIA T24F&G (EACH)	MAN TA 5 DIA T3V F&G (EACH)	MAN TA 5 DIA T8G (EACH)	MAN TA 5 DIA T11V F&G (EACH)	MAN TA 7 DIA T3V F&G (EACH)	MAN TA 7 DIA T12F&G (EACH)	FLAT SLAB TOP REQ'D	
	STATION	OFFSET																	
2	STA. 822+30.63	72.67' RT.	-	715.85	712.81	1													-
3	STA. 822+54.97	21.02' RT.	-	714.84	709.96												1		YES
4	STA. 823+88.88	20.35' RT.	-	714.04	708.97							1							YES
5	STA. 824+08.88	20.35' RT.	-	714.06	708.31							1							YES
7	STA. 823+88.88	20.79' LT.	-	714.06	709.15						1								YES
9	STA. 830+07.07	29.34' RT.	-	726.60	718.60					1									-
10	STA. 828+91.34	23.84' RT.	-	723.31	715.11										1				-
11	STA. 828+91.34	31.84' RT.	723.77	-	716.07			1											-
12	STA. 828+73.75	38.02' RT.	-	722.17	716.22		1												-
13	STA. 828+71.73	44.30' RT.	-	722.38	716.31		1												-
14	STA. 828+26.88	24.27' RT.	-	721.72	714.26				1										-
15	STA. 827+00.00	21.56' RT.	-	718.52	712.61								1						YES
16	STA. 827+00.00	20.79' LT.	-	718.60	712.06													1	YES
18	STA. 828+70.28	25.52' LT.	-	721.00	714.16									1				1	YES
TOTAL						1	2	1	1	1	1	2	1	1	1	1	1		

PIPE CULVERT SCHEDULE

PLAN PIPE I.D. (DS to DS)	UPSTREAM INVERT (@ INSIDE FACE OF D.S. OR PIPE END / F.E.S.)	DOWNSTREAM INVERT (@ INSIDE FACE OF D.S. OR PIPE END / F.E.S.)	APPROX. SLOPE	P CUL CL D 1 15 (FOOT)
19 to 20	717.39	716.23	4.38%	27
TOTAL				27

STORM SEWER SCHEDULE

PLAN PIPE I.D. (DS to DS)	UPSTREAM INVERT (@ INSIDE FACE OF D.S. OR PIPE END / F.E.S.)	DOWNSTREAM INVERT (@ INSIDE FACE OF D.S. OR PIPE END / F.E.S.)	APPROX. SLOPE	PIPE LENGTH INSIDE UPSTREAM D.S. • (FOOT)	PIPE LENGTH INSIDE DOWNSTREAM D.S. • (FOOT)	STORM SEW CL A 1 24 (FOOT)	STORM SEWERS JKD 30 (FOOT)	SS CL A 1 EORS 48 (FOOT)	STORM SEW CL A 2 24 (FOOT)	STORM SEW WM REQ 12 (FOOT)	STORM SEW WM REQ 18 (FOOT)	STORM SEW WM REQ 24 (FOOT)	STORM SEW WM REQ 36 (FOOT)	TRENCH BACKFILL (CU YD)	NOTES
1 to 3	714.80	710.59	4.11%	-	1.50									17.1	
2 to 3	712.81	711.08	3.30%	0.50	1.50					55				2.9	
3 to 4	709.96	709.03	0.72%	1.50	0.50	131								40.7	
4 to 5	708.97	708.88	0.53%	0.50	0.50	17								5.1	
5 to 6	708.31	708.00	1.10%	0.50	-							30		6.3	
7 to 8	709.15	708.80	3.84%	0.50	-	10								1.4	
9 to 10	718.60	715.21	3.05%	0.50	1.00							113		66.3	
13 to 12	716.31	716.29	1.19%	0.50	0.50				4					0.7	
12 to 11	716.22	716.13	0.56%	0.50	0.50				17					11.8	
11 to 10	716.07	716.04	0.80%	0.50	1.00				5					-	
10 to 14	715.11	714.34	1.29%	1.00	0.50							62		61.9	
14 to 15	714.26	712.69	1.28%	0.50	1.00				124					99.8	
15 to 16	712.61	712.15	1.26%	1.00	1.50		39							3.2	CLASS A, TYPE 1
16 to 17	712.06	712.00	0.74%	1.25	-			9						6.2	
18 to 16	714.16	712.15	1.22%	1.00	1.50							167		145.1	
TOTAL						158	39	9	124	81	104	205	167	468.5	

* NOTE: MINIMUM LENGTH REQUIRED (ALONG C.L. OF PIPE) TO PROVIDE MAXIMUM CONCRETE FILL SLOPE ACROSS NON-DROP INLETS/MANHOLES
- REFER TO APPROPRIATE IDOT HIGHWAY STANDARD.

EFK Moen, LLC
Civil Engineering Design

FILE NAME =	USER NAME = j_d	DESIGNED - BJB	REVISED -	STATE OF ILLINOIS DEPARTMENT OF TRANSPORTATION	SCHEDULE OF QUANTITIES	F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
Y:\13015 WO 1 Glen Crest Creek\Design\Pre\13015\13015-016-021-schedule.dwg	DRAWN - BJB	REVISED -	870			534X-B	ILLINOIS	66	18	
PLOT SCALE = 100.0000' / 1" =	CHECKED - SLD	REVISED -	CONTRACT NO. 60V29							
PLOT DATE = 8/6/2015	DATE - 8/6/2015	REVISED -	ILLINOIS FED. AID PROJECT							
				SCALE: N/A	SHEET 3 OF 6 SHEETS					

AGGREGATE, TEMPORARY PAVEMENT, & PAVEMENT REMOVAL SCHEDULE

LOCATION	TEMPORARY PAVEMENT (SQ YD)	AGGREGATE				REMOVALS				
		AGGREGATE SUBGRADE IMPROVEMENT 12"	SUBBASE GRANULAR MAT TYPE B 4"	AGGREGATE SHOULDERS TYPE B 10"	POROUS GRANULAR EMBANKMENT	PAVED SHOULDER REMOVAL	PAVEMENT REMOVAL	HMA SURFACE REMOVAL BUTT JOINT	HMA SURFACE REMOVAL 2 1/2"	DRIVEWAY PAVEMENT REMOVAL
		(SQ YD)	(SQ YD)	(SQ YD)	(CU YD)	(SQ YD)	(SQ YD)	(SQ YD)	(SQ YD)	(SQ YD)
RT 822+40.04 TO 826+48.75 (STAGE 1)	513		559							
LT 821+08.95 TO 827+95.00 (STAGE 2)	571		648							
822+40.04 TO 826+48.75 (STAGE 3)						513				
821+08.95 TO 827+95.00 (STAGE 4)						572				
824+10.00 TO 824+75.00		187			431					
LT 818+98.00 TO 828+27.69			839							
LT 828+61.45 TO 829+20.00			61							
RT + (BEMIS RD) 819+48.00 TO 828+35.71			1,227							
RT 828+70.50 TO 829+32.00			18							
818+98.00 TO 829+32.00										
LT 822+46.90 TO 828+23.71				304						
RT 819+48.00 TO 819+82.68					10					
LT 818+98.00 TO 819+38.71					27					
RT 824+84.67 TO 828+39.86					399					
LT/RT 824+10.00 TO 824+75.00						188				
RT ON BEMIS ROAD						279				
BOTH ENDS OF PROJECT BEMIS RD							43			
							19			
BOTH ENDS OF MARSTON AVE							41			
821+00.00 TO 824+10.00								882		
824+75.00 TO 829+32.00								1650		
RT 822+22.61 TO 822+44.01										33
TOTAL	1,084	187	3352	304	431	436	1552	103	2532	33

HOT-MIX ASPHALT SCHEDULE

LOCATION	BITUMINOUS MATERIALS (PRIME COAT) (POUND)	STRIP REFLECTIVE CRACK CONTROL TREATMENT (FOOT)	HMA BASE COURSE 6" (SQ YD)	HMA BASE COURSE 7 1/2" (SQ YD)	HMA BASE COURSE 8 1/4" (SQ YD)	HMA SHOULDERS 8 1/4" (SQ YD)	LEVELING BINDER MACHINE METHOD N70 (TON)	HMA BINDER COURSE IL-19.0, N70 (TON)	HMA SURFACE COURSE MIX "D", N50 (TON)	POLY HMA SURFACE COURSE MIX "E", N70 (TON)
818+98.00 TO 829+32.00	4,077									
824+10.00 TO 824+75.00		65								
RT 820+08.75 TO 820+34.71			39							
BEMIS RD 822+22.60 TO 822+43.95			45							
RT 821+50.38 TO 822+72.12					271					
LT/RT 824+10.00 TO 824+75.00				187						
RT 819+48.00 TO 821+77.29						180				
RT 822+45.14 TO 828+35.88						508				
LT 818+98.00 TO 828+18.19						662				
LT 828+61.64 TO 829+32.00						62				
821+00.00 TO 828+32.00							109			
823+51.00 TO 824+10.00								41		
824+75.00 TO 827+42.00								194		
RT 820+08.75 TO 820+34.71									4.3	
BEMIS RD 822+22.60 TO 822+43.95									5	
818+98.00 TO 829+32.00										434*
TOTAL	4,077	65	84	187	271	1,412	109	235	9	434

* VALUE INCLUDES 27 TONS ON BEMIS ROAD AND 77 TONS TOTAL AT IL-53/MARSTON AVENUE INTERSECTION.

HMA PATCH SCHEDULE

LOCATION	CLASS D PATCHES TYPE-IV, 10" (SQ YD)
LT 828+18.50 TO 828+62.73	
LT 828+19.03 TO 828+62.20	28
RT 828+30.89 TO 828+91.15	34
LT 828+16.07 TO 828+62.73	
TOTAL	62

PIPE UNDERDRAIN SCHEDULE

LOCATION	PIPE UNDERDRAINS 4" (FOOT)	PIPE UNDERDRAINS 4" (SPECIAL) (FOOT)
LT 824+75.00 TO 823+88.88 (OS - 12.33')	87	
RT 824+75.00 TO 824+08.88 (OS - 12.33')	67	
LT 823+88.88 (OS - 12.33' TO OS - 19.29')		7
RT 824+08.88 (OS - 12.33' TO OS - 18.85')		7
TOTAL	154	14

EFK Moen, LLC
Civil Engineering Design

FILE NAME =	USER NAME = sf	DESIGNED - BJB	REVISED -
Y:\13015 WO 1 Glen Crest Creek\Design\Final\Plotsheets\160\29-016-021-schedule.dgn		DRAWN - BJB	REVISED -
#MODELNAME#	PLOT SCALE = 100.0000' / 1"	CHECKED - SLD	REVISED -
	PLOT DATE = 9/21/2015	DATE - 8/6/2015	REVISED -

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

SCHEDULE OF QUANTITIES

SCALE: N/A SHEET 4 OF 6 SHEETS

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
870	534X-B	DUPAGE	66	19
			CONTRACT NO. 60V29	
ILLINOIS FED. AID PROJECT				

PAVEMENT MARKING SCHEDULE									
LOCATION			THERMOPLASTIC PAV MARKING LINE 4"	THERMOPLASTIC PAV MARKING LINE 24"	REPLACEMENT REFLECTORS	RAISED REFLECTIVE PAV MARKERS	RAISED REFLECTIVE PAV MARKERS, REFL. REMOVAL	PAVEMENT MARKING REMOVAL	REMARKS
			(FOOT)	(FOOT)	(EACH)	(EACH)	(EACH)	(SQ FT)	
CL	818+88.00	819+22.60	70					24	MEDIAN STRIPING
CL	818+88.00	819+22.60	70					24	MEDIAN STRIPING
CL	819+22.60	821+50.38	456					152	DOUBLE YELLOW CENTER LINE
CL	BEMIS RD		74						"
CL	822+72.12	828+05.01	533					178	SOLID YELLOW CENTER LINE
CL	828+69.96	829+69.61	100					34	"
CL	822+72.12	828+05.01	133					45	10' DASH, 30' SKIP - YELLOW CENTERLINE LEFT
CL	828+69.96	829+69.61	25					9	"
LT	818+88.00	827+97.79	910					304	SOLID WHITE EDGE LINE - LEFT
LT	828+69.96	829+50.78	81					27	"
RT	818+88.00	821+50.38	263					88	SOLID WHITE EDGE LINE - RIGHT
RT	822+72.12	828+05.01	533					178	
RT	828+91.96	829+89.20	98					33	"
RT	822+11.51	822+29.42		18					BEMIS RD
RT	828+57.11	828+70.95		13					MARSTON AVE
LT	828+25.29	828+39.50		14					MARSTON AVE
CL	818+88.00	821+00.00			12		12		2 @ 40 FOOT SPACING
CL	821+00.00	821+50.38				2			"
CL	822+72.12	828+05.01				26			"
CL	828+69.96	829+32.00				4			"
TOTAL			3,346	45	12	32	12	1,096	

TEMPORARY BARRIER & IMPACT ATTENUATOR SCHEDULE									
LOCATION		TEMPORARY CONCRETE BARRIER	RELOCATE TEMP CONC. BARRIER	PINNING TEMP CONC. BARRIER	IMPACT ATTENUATOR TEMPORARY (N. R. D.) TL3	IMPACT ATTENUATOR TEMPORARY (N. R. N.) TL3	IMPACT ATTENUATOR RELOCATE (N. R. D.) TL3	IMPACT ATTENUATOR RELOCATE (N. R. N.) TL3	M-DIRECTIONAL PRISMATIC BARRIER REFLECTOR
		(FOOT)	(FOOT)	(EACH)	(EACH)	(EACH)	(EACH)	(EACH)	(EACH)
RT	823+08 TO 827+45 STAGE-1	437.5							18
LT	822+74 TO 826+10 STAGE-2	162.5							7
LT	823+22 TO 827+59 STAGE-3	162.5							7
RT	823+86 TO 826+48 STAGE-2		262.5						
LT	822+74 TO 826+10 STAGE-2		175						
RT	822+85 TO 826+09 STAGE-3		325						
LT	823+22 TO 827+59 STAGE-3		275						
RT	827+45 STAGE-1				1				
LT	822+74 STAGE-2				1				
RT	823+08 STAGE-1					1			
RT	826+48 STAGE-2					1			
LT	826+10 STAGE-2						1		
RT	822+85 STAGE-3						1		
RT	826+09 STAGE-3						1		
RT	823+86 STAGE-2							1	
LT	823+22 STAGE-3							1	
LT	827+59 STAGE-3							1	
LT & RT	STAGE-1			99					
LT & RT	STAGE-2			132					
LT & RT	STAGE-3			171					
TOTAL		762.5	1,037.5	402	2	2	3	3	32

TRAFFIC CONTROL SCHEDULE			
LOCATION	TRAFFIC CONTROL SURVEILLANCE	TRAFFIC CONTROL & PROTECTION (SPECIAL)	ENGINEER'S FIELD OFFICE, TYPE A
	(CAL DA)	(L SUM)	(CAL MO)
	818+98 TO 829+32	240	
	818+98 TO 829+32		1
	818+98 TO 829+32		8
TOTAL		240	1

TEMPORARY PAVEMENT MARKING SCHEDULE

LOCATION		SHORT TERM PMK (FOOT)	TEMPORARY PMK LINE 4" (FOOT)	WORK ZONE PAV MARKING REMOVAL (SQ FT)	TEMP RAISED REFLECTIVE PAV MARKER (EACH)	REMARKS	
LT	818+88.00	827+97.79	36	12		4" STRIPE- EDGE LINE	
LT	828+69.96	829+50.78	4	1			
CL	818+88.00	819+22.60	4	1		4" STRIPE- Center line	
CL	818+88.00	819+22.60	4	1		"	
CL	819+22.60	821+50.38	24	8			
CL	822+72.12	828+05.01	52	17			
CL	828+69.96	829+69.61	8	3			
RT	BEMIS	RD	8	3		"	
RT	818+88.00	821+50.38	12	4		4" STRIPE- EDGE LINE	
RT	822+72.12	828+05.01	20	7		"	
RT	828+91.96	829+89.20	4	1		"	
RT	BEMIS	RD	18	18		12" STRIPE- STOP BARS	
RT	MARSTON	AVE	13	13		"	
CL	818+88.00	821+50.38			14	2 @ 40 FOOT SPACING	
CL	822+72.12	828+05.01			26	"	
CL	828+69.96	829+69.61			4	"	
STAGE 1	818+98	827+75	878	293		CENTER LINE	
	818+98	828+07	910	304		EDGE LINES (RT)	
STAGE 2	819+58	829+32	975	325		EDGE LINES (LT)	
	819+58	829+02	945	315		CENTER LINE	
	819+58	828+89	933	311		EDGE LINES (RT)	
STAGE 3	818+88	829+51	1,063	355		EDGE LINES (LT)	
	818+88	829+70	1,082	361		CENTER LINE	
	818+88	829+89	1,102	368		EDGE LINES (RT)	
STAGE 4	818+88.00	827+97.79	910	304		EDGE LINES (LT)	
	828+69.96	829+50.78	81	27		"	
	818+88.00	819+22.60	70	24		MEDIAN	
	818+88.00	819+22.60	70	24		"	
	819+22.60	821+50.38	456	152		CENTER LINE - DOUBLE YELLOW	
	BEMIS	RD	74	25		"	
	822+72.12	828+05.01	533	178		CENTER LINE - SINGLE YELLOW	
	828+69.96	829+69.61	100	34		"	
	822+72.12	828+05.01	130	44		CENTER LINE - SKIP-DASH	
	828+69.96	829+69.61	30	10		"	
	818+88.00	821+50.38	263	88		EDGE LINES (RT)	
	822+72.12	828+05.01	533	178		"	
	828+91.96	829+89.20	98	33		"	
TOTAL			207	11,236	3,842	44	

EFK·Moen, LLC
Civil Engineering Design

FILE NAME =	USER NAME = jd	DESIGNED - BJC	REVISED -
Y:\13015 WO 1 Glen Crest Creek\Design\Pre1m\Plotsheets\DI60V29-016-021-schedule.dwg		DRAWN - BJC	REVISED -
	PLOT SCALE = 100.0000' / 1in.	CHECKED - SLD	REVISED -
MODELNAME	PLOT DATE = 8/6/2015	DATE - 8/6/2015	REVISED -

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

SCHEDULE OF QUANTITIES

SCALE: N/A SHEET 6 OF 6 SHEETS

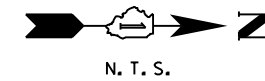
F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
870	534X-B		66	21
			CONTRACT NO. 60V29	
ILLINOIS FED. AID PROJECT				

ALIGNMENT COORDINATES - IL. ROUTE 53			
IL 53	STATION	NORTHING	EASTING
PC	803+13.83	1885438.7499	1060537.0574
PT	822+32.39	1886852.8362	1060641.3390
POT	846+88.53	1889308.3830	1060695.2390
PC	851+28.49	1889748.2412	1060704.8942
PT	852+53.17	1889872.9152	1060705.2061
PC	853+41.22	1889960.9476	1060703.7143
PT	857+67.72	1890387.4317	1060701.5322

PROP. CURVE EX53-1
 PI STA. = 815+23.74
 $\Delta = 5^\circ 55' 13''$ (LT)
 $D = 0^\circ 25' 02''$
 $R = 13,728.46'$
 $T = 709.91'$
 $L = 1,418.56'$
 $E = 18.34'$
 P.C. STA. = 808+13.83
 P.T. STA. = 822+32.39

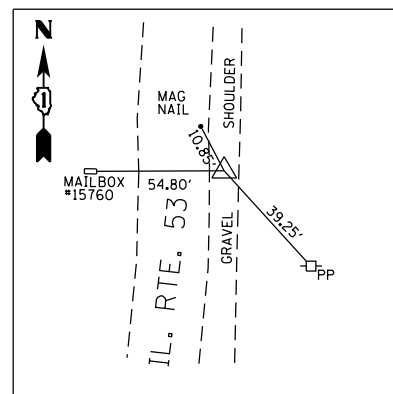
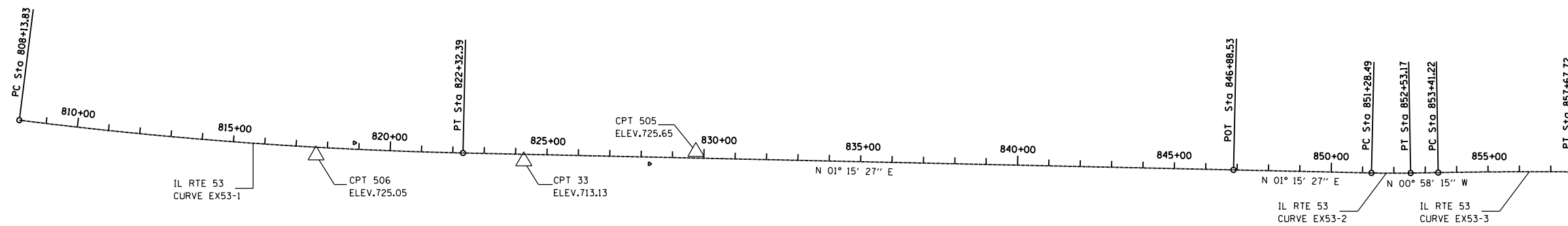
PROP. CURVE EX53-2
 PI STA. = 851+90.84
 $\Delta = 2^\circ 13' 42''$ (LT)
 $D = 1^\circ 47' 14''$
 $R = 3,205.96'$
 $T = 62.35'$
 $L = 124.68'$
 $E = 0.61'$
 P.C. STA. = 851+28.49
 P.T. STA. = 852+53.17

PROP. CURVE EX53-3
 PI STA. = 855+54.48
 $\Delta = 1^\circ 21' 19''$ (RT)
 $D = 0^\circ 19' 04''$
 $R = 18,030.52'$
 $T = 213.26'$
 $L = 426.50'$
 $E = 1.26'$
 P.C. STA. = 853+41.22
 P.T. STA. = 857+67.72



BENCHMARK:

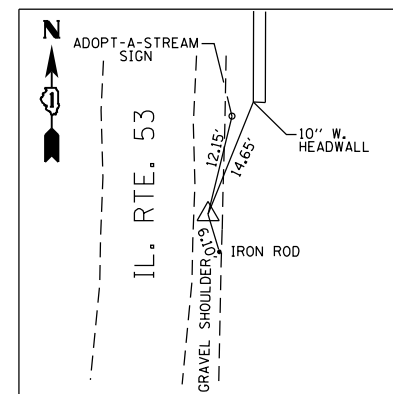
CP 21 (BAIRD)
 REBAR ON THE CORNER OF BUTTERFIELD ROAD
 AND IL 53 IN FRONT OF MOBILE GAS STATION
 ELEVATION = 689.28



CONTROL POINT #506

SET 1/2" IRON ROD WITH CAP

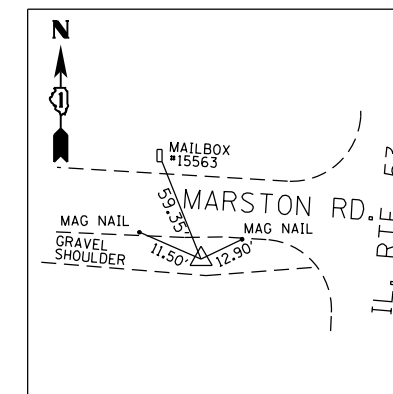
STA. 817+65.22, 25.24' RT.
 N 1886384.6350
 E 1060648.3400
 ELEV. 725.21



CONTROL POINT #33

1/2" IRON ROD WITH CAP
 SET BY OTHERS

STA. 824+26.73, 21.88' RT.
 N 1887046.6520
 E 1060667.4750
 ELEV. 713.13



CONTROL POINT #505

SET 1/2" IRON ROD WITH CAP

STA. 829+74.54, 20.16' RT.
 N=1887595.2530
 E=1060637.4700
 ELEV. 725.65

EFK Moen, LLC
 Civil Engineering Design

FILE NAME =	USER NAME = jd	DESIGNED -	REVISED -
Y:\13015 WO 1 Glen Crest Creek\Design\Pre\m\Plot\0160V29-022-ATB.dgn		DRAWN - AB/DB	REVISED -
	PLOT SCALE = 400.0000' / in.	CHECKED - SLD	REVISED -
MODELNAME	PLOT DATE = 8/6/2015	DATE - 8/6/2015	REVISED -

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

ALIGNMENT, TIES AND BENCHMARKS

SCALE: N.T.S. SHEET 1 OF 1 SHEETS

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
870	534X-B	DUPAGE	66	22
CONTRACT NO. 60V29				
ILLINOIS FED. AID PROJECT				

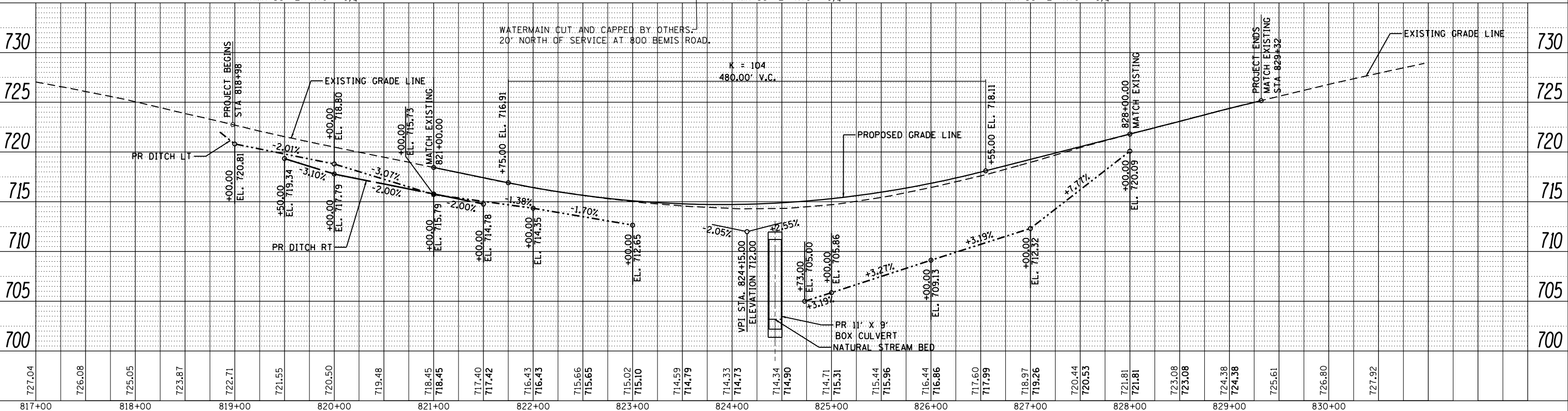
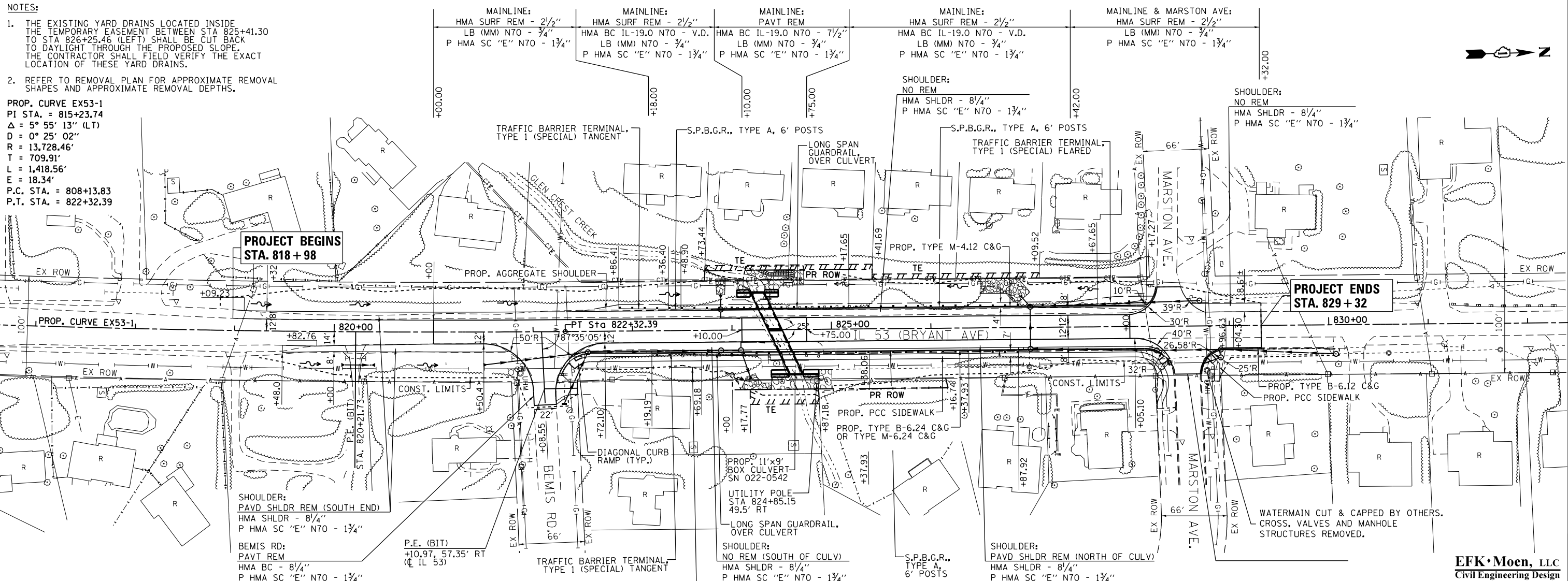
NOTES:

1. THE EXISTING YARD DRAINS LOCATED INSIDE THE TEMPORARY EASEMENT BETWEEN STA 825+41.30 TO STA 826+25.46 (LEFT) SHALL BE CUT BACK TO DAYLIGHT THROUGH THE PROPOSED SLOPE. THE CONTRACTOR SHALL FIELD VERIFY THE EXACT LOCATION OF THESE YARD DRAINS.
2. REFER TO REMOVAL PLAN FOR APPROXIMATE REMOVAL SHAPES AND APPROXIMATE REMOVAL DEPTHS.

PROP. CURVE EX53-1
 PI STA. = 815+23.74
 $\Delta = 5^\circ 55' 13''$ (LT)
 $D = 0^\circ 25' 02''$
 $R = 13,728.46'$
 $T = 709.91'$
 $L = 1,418.56'$
 $E = 18.34'$
 P.C. STA. = 808+13.83
 P.T. STA. = 822+32.39

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

PROFILE	SURVEYED	DATE
	PLOTTED	BY
	GRADES CHECKED	
	STRUCTURE NOTATIONS CHECKED	
	NOTE BOOK NO.	
	FILE NAME	



FILE NAME =	USER NAME = sf	DESIGNED -	JRD	REVISED -	
Y:\13015 WD 1 Glen Crest Creek\DN\Design\Final\Plotsheets\0160V29-023-plnprof.dgn		DRAWN -	MSK	REVISED -	
#MODELNAME#		CHECKED -	SLD	REVISED -	
		DATE -	8/6/2015	REVISED -	

**STATE OF ILLINOIS
 DEPARTMENT OF TRANSPORTATION**

PLAN & PROFILE

SCALE: 1"=50' SHEET 1 OF 1 SHEETS STA. 817+00 TO STA. 832+00

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
870	534X-B	DUPAGE	66	23
CONTRACT NO. 60V29				
ILLINOIS FED. AID PROJECT				

EFK Moen, LLC
 Civil Engineering Design

SUGGESTED STAGES OF CONSTRUCTION AND TRAFFIC CONTROL

GENERAL NOTES:

1. THE SUGGESTED STAGES OF CONSTRUCTION AND TRAFFIC CONTROL PLANS SHALL SERVE AS A GUIDE FOR SAFE DIVERSION OF TRAFFIC DURING EXECUTION OF THIS CONTRACT. HOWEVER, THE CONTRACTOR MAY IMPROVE OR MODIFY THE TRAFFIC CONTROL PLANS TO MEET CONSTRUCTION NEEDS BUT NOT AT THE EXPENSE OF PUBLIC SAFETY OR CONVENIENCE. ANY CHANGES TO THE TRAFFIC CONTROL PLAN SHALL BE SUBMITTED TO THE ENGINEER FOR APPROVAL.
2. THE CONTRACTOR SHALL BE REQUIRED TO MAINTAIN TRAFFIC IN ACCORDANCE WITH THE TRAFFIC CONTROL PLANS, SPECIAL PROVISIONS, APPLICABLE STATE STANDARDS, AND AS DIRECTED BY THE ENGINEER.
3. CONTRACTOR SHALL MAINTAIN A MINIMUM OF ONE THROUGH LANE IN EACH DIRECTION THROUGH OUT THE PROJECT AREA AT ALL TIMES.
4. THE CONTRACTOR SHALL BE REQUIRED TO MAINTAIN ACCESS TO ALL ENTRANCES AND SIDEROADS AS DIRECTED BY THE ENGINEER. NO ADDITIONAL COST TO THE DEPARTMENT.
5. THE CONTRACTOR SHALL PROVIDE ADEQUATE TEMPORARY DRAINAGE AND EROSION & SEDIMENT CONTROL PLAN PROTECTION DURING ALL PHASES OF CONSTRUCTION. NO ADDITIONAL COST TO THE DEPARTMENT.
6. ALL EXISTING SIGNS THAT CONFLICT WITH THE TRAFFIC CONTROL PLAN SHALL BE COVERED OR REMOVED IN ACCORDANCE WITH ARTICLE 107.25 OF THE STANDARD SPECIFICATIONS.
7. THE CONTRACTOR SHALL PROVIDE, INSTALL, MAINTAIN AND REMOVE ALL SIGNS AND SIGN SUPPORTS REQUIRED FOR TRAFFIC CONTROL AND PROTECTION.
8. ADVANCED SIGNING SHOWN ON THE STAGING PLANS IS INCLUSIVE OF ALL STAGES OF CONSTRUCTION. THE CONTRACTOR SHALL COVER SIGNS NOT APPLICABLE AT NO ADDITIONAL COST TO THE DEPARTMENT. SIGN PLACEMENT SHALL BE ACCORDING TO ADVANCED SIGN SEQUENCE SHOWN ON THE STAGING PLANS OR AS DIRECTED BY THE ENGINEER.
9. THE SIGN SPACING FOR THE "ROAD CONSTRUCTION AHEAD" SIGNS ON ALL SIDEROADS WITHIN THE PROJECT LIMITS IS 200'. PLACEMENT MAY BE BEYOND THE FIRST BLOCK OF THE SIDEROAD. THE CONTRACTOR SHALL PLACE ADVANCED SIGNING ALONG ALL ROADS CONNECTING TO THE SIDEROADS THAT EXIST INSIDE OF THE 200' SPACING AS DIRECTED BY THE ENGINEER. PAYMENT SHALL BE INCIDENTAL TO THE COST OF SPECIFIED TRAFFIC CONTROL STANDARDS OR ITEMS.
10. ALL TEMPORARY INFORMATION SIGNS SHALL NOT BE PAID FOR SEPARATELY BUT SHALL BE INCLUDED IN THE CONTRACT UNIT PRICE PER LUMP SUM FOR "TRAFFIC CONTROL AND PROTECTION (SPECIAL)".
11. FLAGGERS SHALL BE USED TO CONSTRUCT THE STORM SEWER PIPES UNDER BEMIS RD. AND MARSTON AVE. TO INSURE ACCESS TO THESE SIDEROADS.
12. SEE STRUCTURE PLANS FOR BOX CULVERT CONSTRUCTION DETAILS.
13. SEE STRUCTURE PLANS FOR TEMPORARY SUPPORT SYSTEM DETAILS.
14. EARTHWORK AREAS SHOWN ON THE CROSS SECTIONS REPRESENT THE FINAL ROADWAY TEMPLATE. ADDITIONAL EARTHWORK MAY BE REQUIRED TO ACCOMMODATE STAGING TRAFFIC AND SHALL BE CONSIDERED INCIDENTAL.
15. NO ADDITIONAL PAYMENT WILL BE MADE FOR THE 24" TEMPORARY PIPE.

HIGHWAY STANDARDS

- 701001
- 701006
- 701011
- 701301
- 701306
- 701311
- 701901

DISTRICT STANDARDS

- TC-10
- TC-13
- TC-22

STAGE 1:

1. SHIFT TRAFFIC WEST 2' AND REDUCE THE LANE WIDTHS TO 11' AS SHOWN ON THE STAGING TYPICAL SECTION FOR STAGE 1 CONSTRUCTION.
2. INSTALL TEMPORARY CONCRETE BARRIER AND ATTENUATORS ADJACENT TO THE EAST EDGE OF PAVEMENT AS SHOWN ON THE STAGE 1 PLAN AND STAGING TYPICAL SECTION FOR STAGE 1 CONSTRUCTION.
3. INSTALL THE TEMPORARY SUPPORT SYSTEM, TEMPORARY SHORING, A PORTION OF THE STORM SYSTEM FROM STRUCTURES 3 TO 1 AND STRUCTURE 3 TO 2 AND 24" TEMPORARY PIPE FROM STRUCTURE 3 TO GLEN CREST CREEK TO INSURE PROPER DRAINAGE. STRUCTURE 3 SHALL BE COVERED WITH A PLATE TO ALLOW FOR TRAFFIC DURING STAGE 2.
4. CONSTRUCT FULL DEPTH SHOULDER ALONG THE EAST SIDE OF IL-53 FROM STA. 819+48 TO BEMIS RD., CONSTRUCT BEMIS RD. AND ENTRANCES.
5. REMOVE A PORTION OF THE EXISTING CURB AND INSTALL TEMPORARY PAVEMENT FROM BEMIS RD. TO STA. 826+48.

STAGE 2:

1. RELOCATE AND ANCHOR THE TEMPORARY CONCRETE BARRIER TO THE OUTSIDE OF THE TEMPORARY PAVEMENT AS SHOWN ON THE STAGE 2 PLAN AND STAGING TYPICAL SECTION FOR STAGE 2 CONSTRUCTION. SHIFT TRAFFIC; LANE WIDTHS ARE 11' WIDE.
2. INSTALL TEMPORARY CONCRETE BARRIER AND ATTENUATORS AS SHOWN ON THE STAGE 2 PLAN AND STAGING TYPICAL SECTION FOR STAGE 2 CONSTRUCTION.
3. INSTALL TEMPORARY SHORING AND CONSTRUCT THE WEST SIDE OF THE BOX CULVERT AS SHOWN IN THE STRUCTURE PLANS. INSTALL GABIONS AND CREEK REVETMENT.
4. CONSTRUCT A PORTION OF THE STORM SYSTEM FROM STRUCTURES 17 TO 18 AND JACK THE 24" PIPE FROM STRUCTURE 16 UNDER IL-53 TO INSURE 2 LANES OF TRAFFIC IS MAINTAINED. STRUCTURE 16 SHALL BE COVERED WITH A PLATE TO ALLOW CONSTRUCTION OF THE TEMPORARY PAVEMENT FOR STAGE 3 TRAFFIC.
5. CONSTRUCT HALF OF THE SOUTHBOUND TRAFFIC LANE OVER THE BOX CULVERT FROM STA. 824+10 TO STA. 824+75 AND THE FULL DEPTH SHOULDER ALONG THE WEST SIDE OF IL-53.
6. INSTALL TEMPORARY SHORING ADJACENT TO THE WEST SIDE OF IL-53 AND CONSTRUCT TEMPORARY PAVEMENT FROM STA. 821+09 TO STA. 827+95 FOR STAGE 3 TRAFFIC AS SHOWN ON THE STAGE 3 PLAN AND STAGING TYPICAL SECTION FOR STAGE 3 CONSTRUCTION.

STAGE 3:

1. RELOCATE AND ANCHOR THE TEMPORARY CONCRETE BARRIER TO THE OUTSIDE OF THE TEMPORARY PAVEMENT AS SHOWN ON THE STAGE 3 PLAN AND STAGING TYPICAL SECTION FOR STAGE 3 CONSTRUCTION. SHIFT TRAFFIC; LANE WIDTHS ARE 11' WIDE.
2. INSTALL TEMPORARY CONCRETE BARRIER AND ATTENUATORS AS SHOWN ON THE STAGE 3 PLAN AND STAGING TYPICAL SECTION FOR STAGE 3 CONSTRUCTION.
3. INSTALL TEMPORARY SHORING AND CONSTRUCT THE EAST SIDE OF THE BOX CULVERT AS SHOWN IN THE STRUCTURE PLANS. INSTALL CREEK REVETMENT.
4. CONSTRUCT A REMAINING PORTION OF THE STORM SYSTEM FROM STRUCTURES 3 TO 6, STRUCTURES 15 TO 9 AND STRUCTURES 10 TO 13.
5. CONSTRUCT THE REMAINING HALF OF THE SOUTHBOUND TRAFFIC LANE AND THE NORTHBOUND LANE OVER THE BOX CULVERT FROM STA. 824+10 TO STA. 824+75 AND THE REMAINING FULL DEPTH SHOULDER, CURB AND GUTTER, SIDEWALK AND GUARDRAIL ALONG THE EAST SIDE OF IL-53.

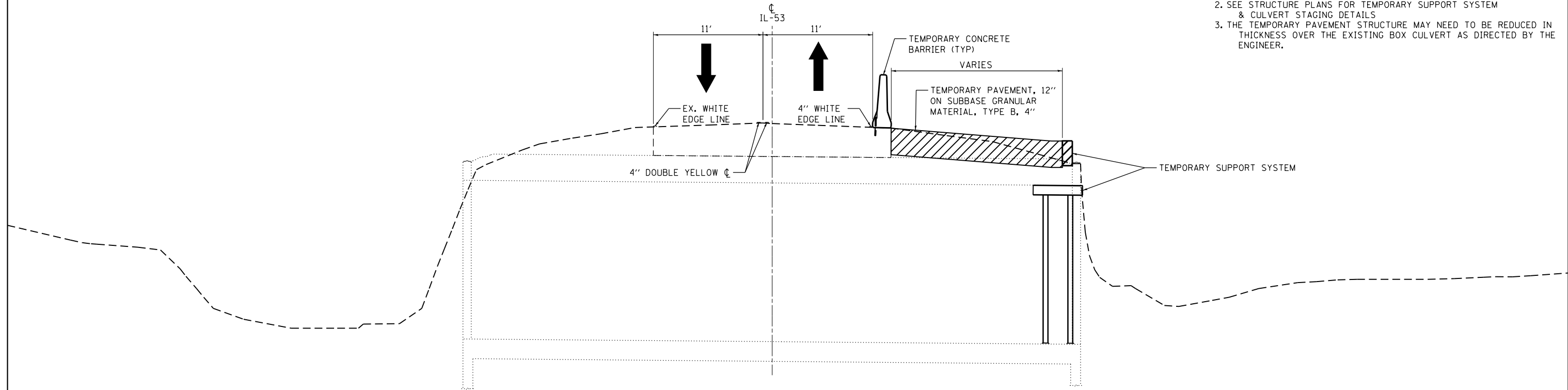
STAGE 4:

1. SHIFT TRAFFIC TO THE ACTUAL DRIVING LANES.
2. CONSTRUCT THE STORM SYSTEM FROM STRUCTURES 7 TO 8.
3. CONSTRUCT THE CURB AND GUTTER ALONG THE WEST SIDE OF IL-53, GUARDRAIL AND AGGREGATE SHOULDER.
4. 1 3/4" MILLING, FINAL OVERLAY PAVEMENT, AND FINAL STRIPE.

EFK Moen, LLC
Civil Engineering Design

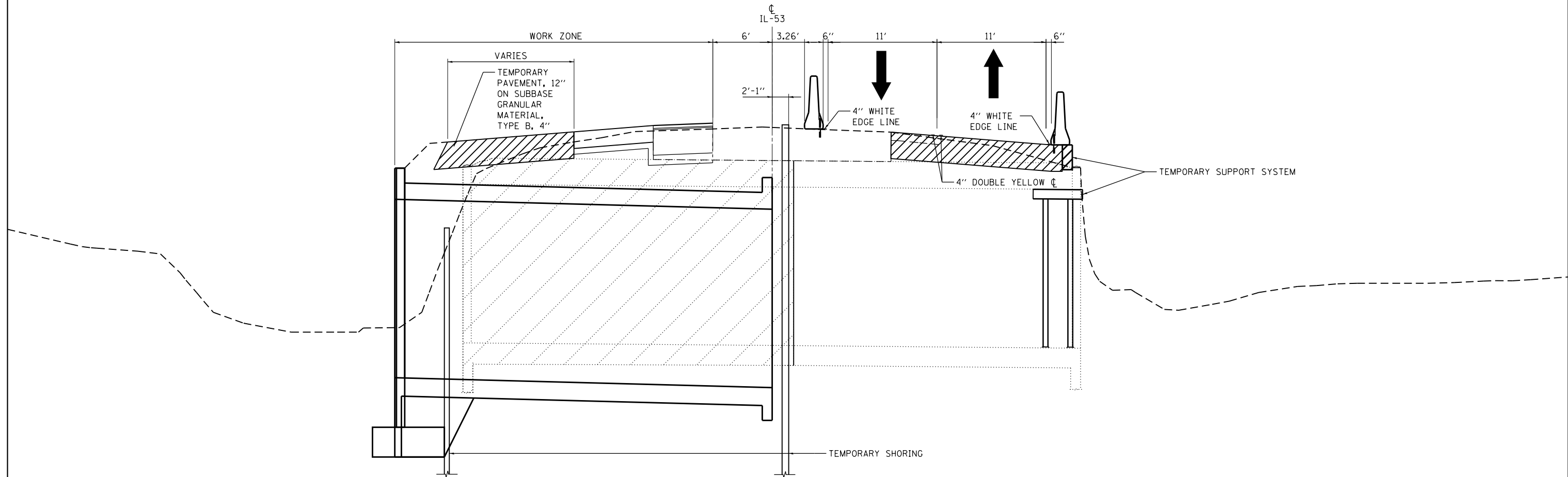
FILE NAME =	USER NAME = jrd	DESIGNED - JRD	REVISED -	STATE OF ILLINOIS DEPARTMENT OF TRANSPORTATION	MAINTENANCE OF TRAFFIC - SUGGESTED STAGES OF CONSTRUCTION AND TRAFFIC CONTROL	F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
Y:\13015 WO 1 Glen Crest Creek\Design\Pre1m\Plotsheets\DI60V29-024-stagenote.dgn	Y:\13015 WO 1 Glen Crest Creek\Design\Pre1m\Plotsheets\DI60V29-024-stagenote.dgn	DRAWN - JRD	REVISED -			870	534X-B	DUPAGE	66	24
MODELNAME	PLOT DATE = 8/6/2015	CHECKED - SLD	REVISED -			CONTRACT NO. 60V29		ILLINOIS FED. AID PROJECT		
				SCALE: N/A		SHEET 1 OF 7 SHEETS		STA. TO STA.		

STAGE 1: IL-53



- NOTES:
1. TEMPORARY CONCRETE BARRIER SHALL BE SECURED TO THE PAVEMENT
 2. SEE STRUCTURE PLANS FOR TEMPORARY SUPPORT SYSTEM & CULVERT STAGING DETAILS
 3. THE TEMPORARY PAVEMENT STRUCTURE MAY NEED TO BE REDUCED IN THICKNESS OVER THE EXISTING BOX CULVERT AS DIRECTED BY THE ENGINEER.

STAGE 2: IL-53



EFK Moen, LLC
Civil Engineering Design

FILE NAME =	USER NAME = jd	DESIGNED - CTW/JRD	REVISED -
Y:\13015 WO 1 Glen Crest Creek\Design\PreIm\PlotSheets\0160V29-025-026-stage1	DRAWN - JRD	CHECKED - SLD	REVISED -
	PLOT SCALE = 10.0000' / 1"	DATE - 8/6/2015	REVISED -
#MODELNAME#	PLOT DATE = 8/6/2015		

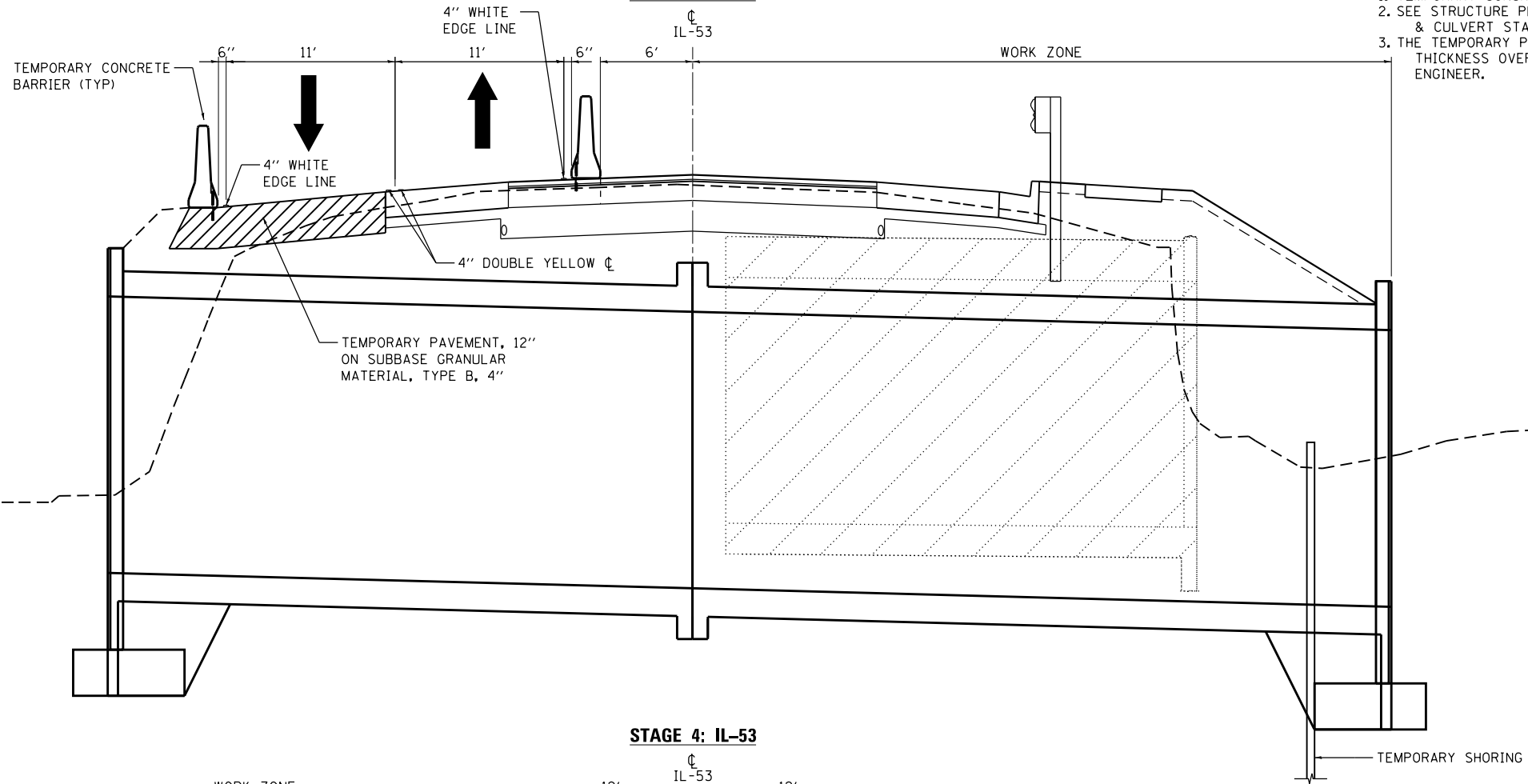
STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

MAINTENANCE OF TRAFFIC - TYPICAL SECTIONS

SCALE: N.T.S. SHEET 2 OF 7 SHEETS

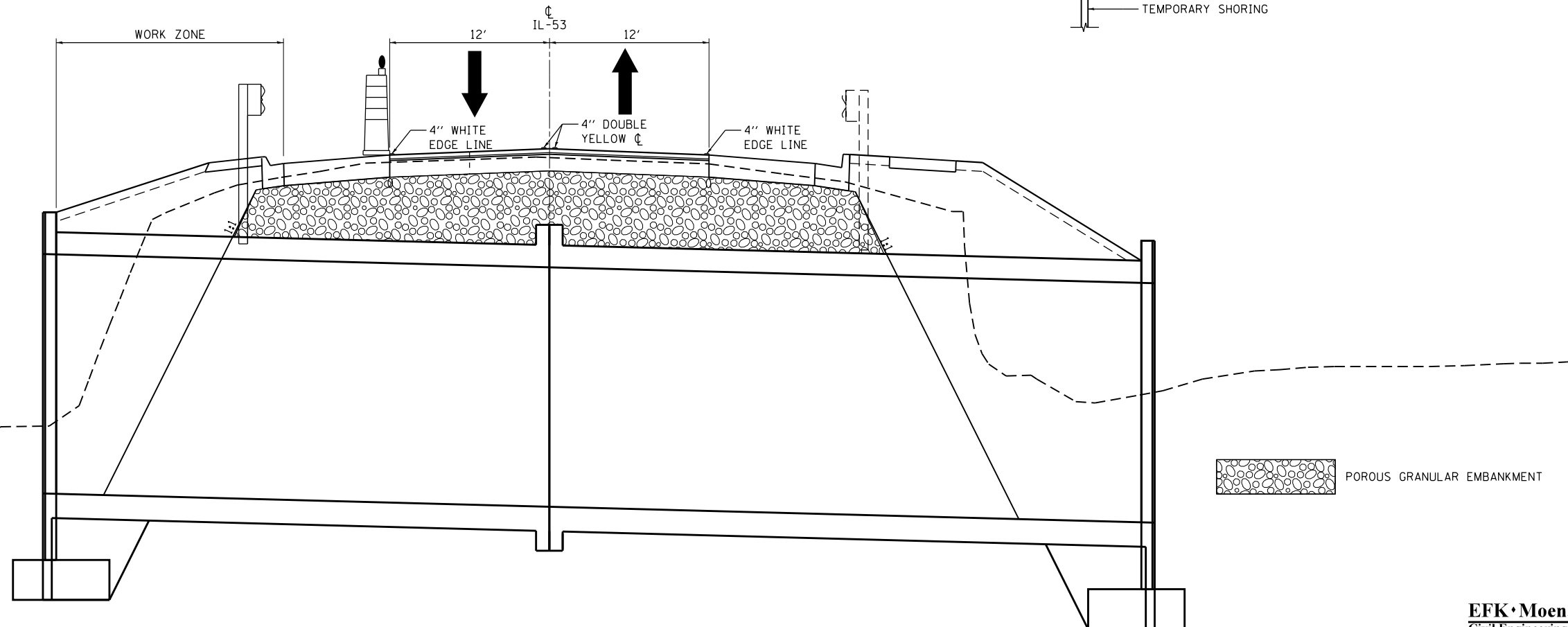
F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
870	534X-B	DUPAGE	66	25
CONTRACT NO. 60V29				
ILLINOIS FED. AID PROJECT				

STAGE 3: IL-53



- NOTES:
1. TEMPORARY CONCRETE BARRIER SHALL BE SECURED TO THE PAVEMENT
 2. SEE STRUCTURE PLANS FOR TEMPORARY SUPPORT SYSTEM & CULVERT STAGING DETAILS
 3. THE TEMPORARY PAVEMENT STRUCTURE MAY NEED TO BE REDUCED IN THICKNESS OVER THE EXISTING BOX CULVERT AS DIRECTED BY THE ENGINEER.

STAGE 4: IL-53



EFK Moen, LLC
Civil Engineering Design

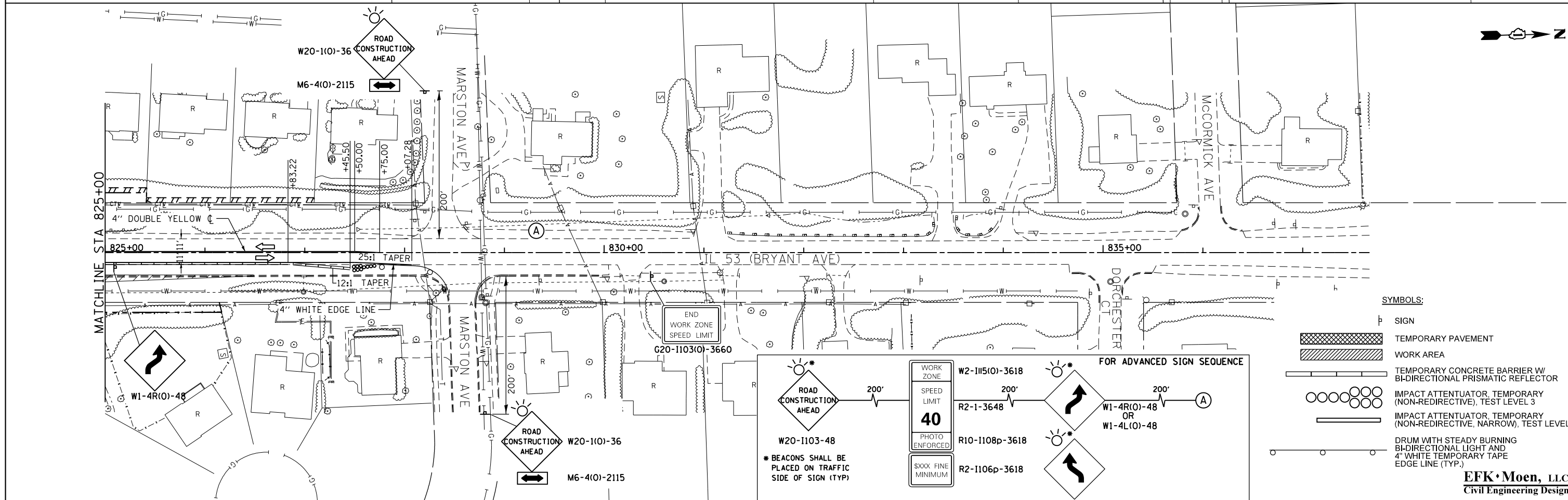
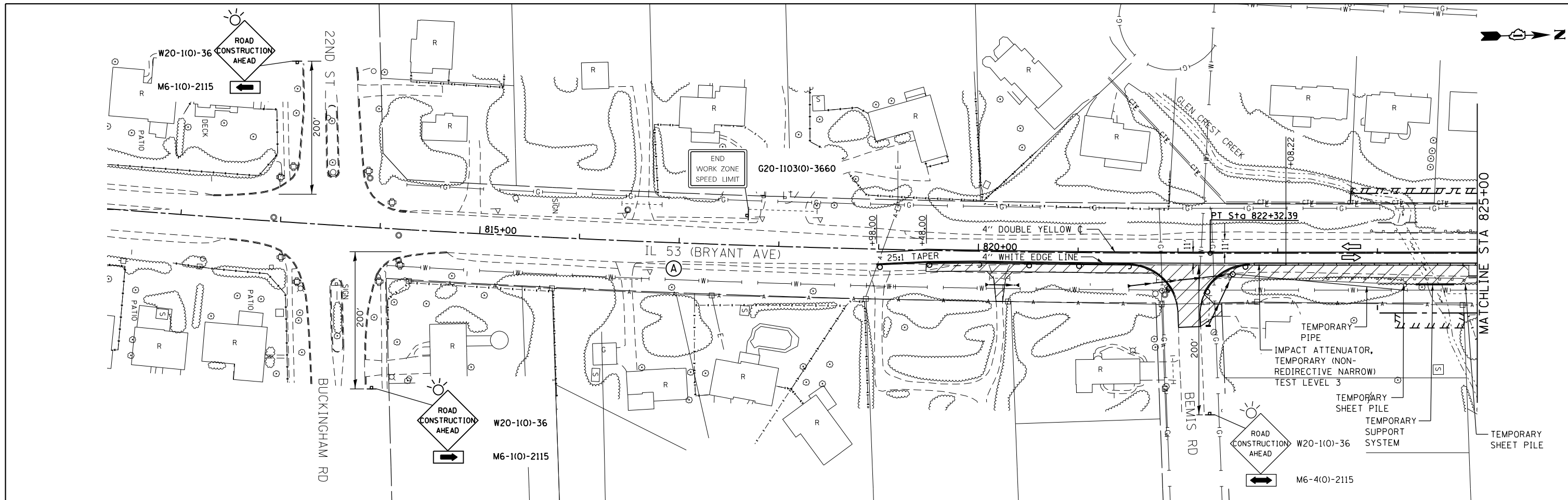
FILE NAME =	USER NAME = sf	DESIGNED - CTW/JRD	REVISED -
Y:\13015 WO 1 Glen Crest Creek\Design\Final\Plotsheets\160\29-025-026-stage3typical.dwg	DRAWN - JRD	CHECKED - SLD	DATE - 8/6/2015
MODELNAME	PLOT SCALE = 10.0000' / in.	DATE - 8/6/2015	REVISED -

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

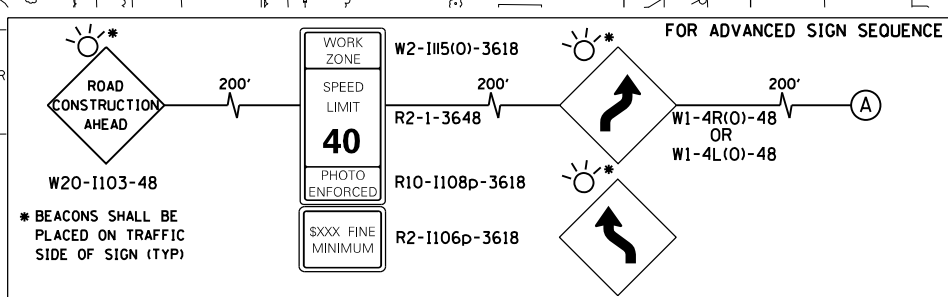
MAINTENANCE OF TRAFFIC - TYPICAL SECTIONS

SCALE: N.T.S. SHEET 3 OF 7 SHEETS

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
870	534X-B	DUPAGE	66	26
CONTRACT NO. 60V29				
ILLINOIS FED. AID PROJECT				



- SYMBOLS:**
- SIGN
 - TEMPORARY PAVEMENT
 - WORK AREA
 - TEMPORARY CONCRETE BARRIER W/ BI-DIRECTIONAL PRISMATIC REFLECTOR
 - IMPACT ATTENUATOR, TEMPORARY (NON-REDIRECTIVE), TEST LEVEL 3
 - IMPACT ATTENUATOR, TEMPORARY (NON-REDIRECTIVE, NARROW), TEST LEVEL 3
 - DRUM WITH STEADY BURNING BI-DIRECTIONAL LIGHT AND 4" WHITE TEMPORARY TAPE EDGE LINE (TYP.)



FILE NAME =	USER NAME = jd	DESIGNED - JRD	REVISED -
Y:\13815 WO 1 Glen Crest Creek\DCN\Design\Prelim\Plotsheets\160V29-027-staging-1.dgn		DRAWN - JRD	REVISED -
	PLOT SCALE = 100.0000' / 1in.	CHECKED - SLD	REVISED -
#MODELNAME#	PLOT DATE = 8/17/2015	DATE - 8/17/2015	REVISED -

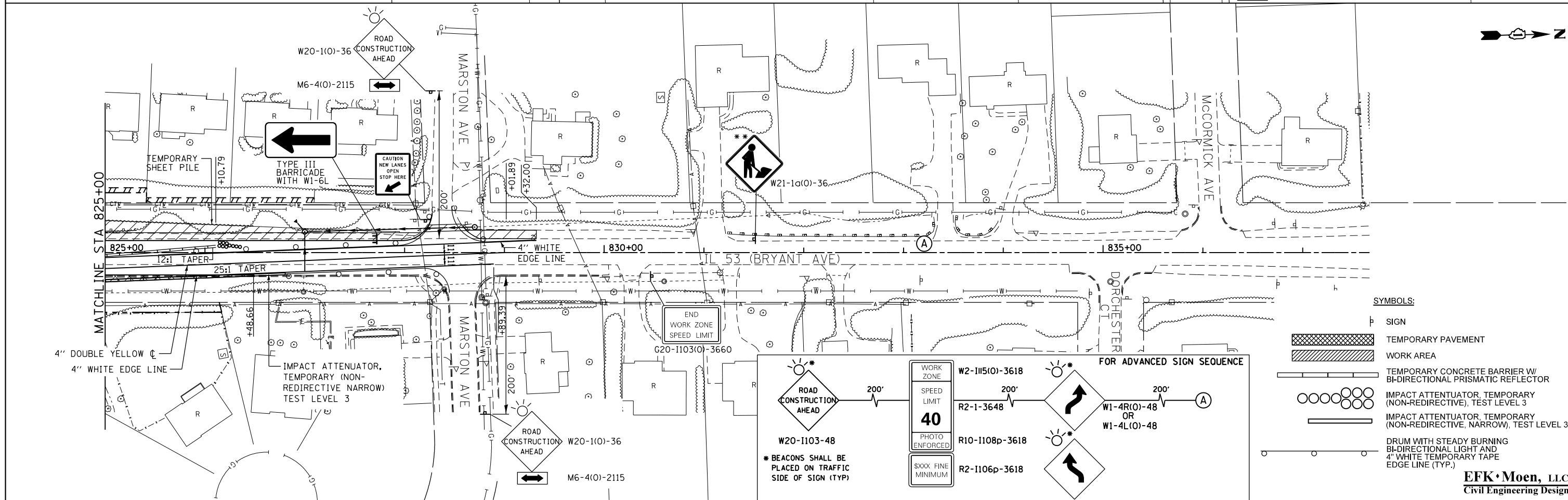
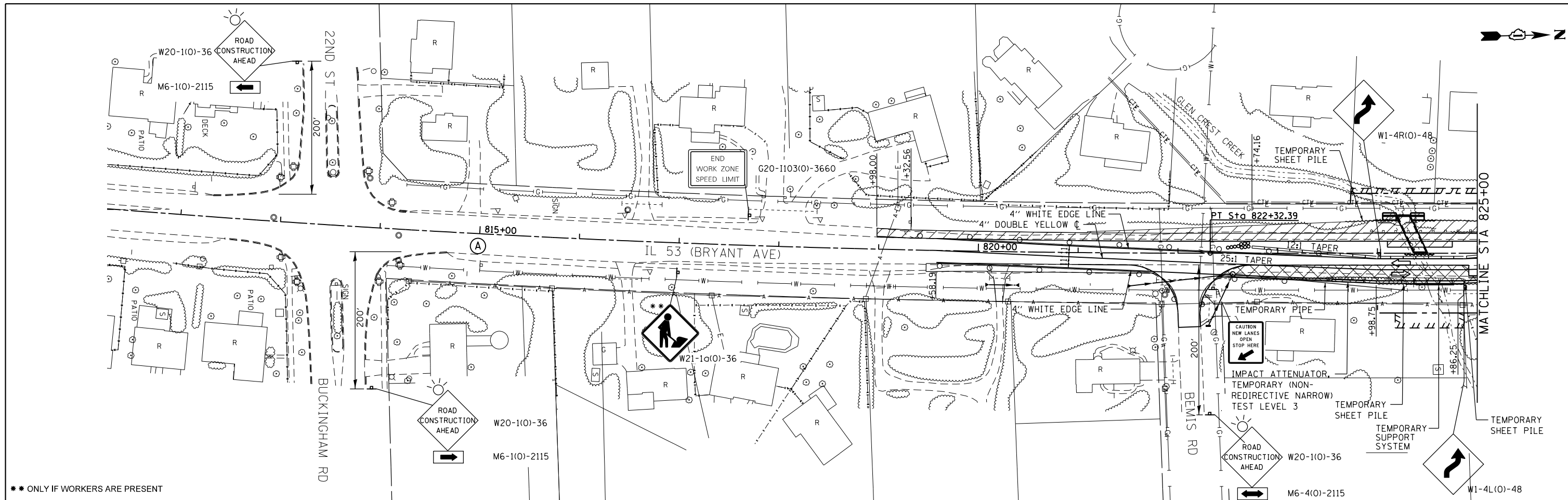
**STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION**

MAINTENANCE OF TRAFFIC - STAGE 1 PLAN

SCALE: 1"=50' SHEET 4 OF 7 SHEETS STA. 811+00 TO STA. 838+00

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
870	534X-B	DUPAGE	66	27
CONTRACT NO. 60V29				
ILLINOIS FED. AID PROJECT				

EFK Moen, LLC
Civil Engineering Design



- SYMBOLS:**
- SIGN
 - TEMPORARY PAVEMENT
 - WORK AREA
 - TEMPORARY CONCRETE BARRIER W/ BI-DIRECTIONAL PRISMATIC REFLECTOR
 - IMPACT ATTENUATOR, TEMPORARY (NON-REDIRECTIVE), TEST LEVEL 3
 - IMPACT ATTENUATOR, TEMPORARY (NON-REDIRECTIVE, NARROW), TEST LEVEL 3
 - DRUM WITH STEADY BURNING BI-DIRECTIONAL LIGHT AND 4" WHITE TEMPORARY TAPE EDGE LINE (TYP.)

FILE NAME =	USER NAME = jd	DESIGNED - JRD	REVISED -
Y:\13015 WO 1 Glen Crest Creek\Design\Pre\1m\PlotSheets\0160V29-028-staging-2.dwg		DRAWN - JRD	REVISED -
	PLOT SCALE = 100.0000' / 1" =	CHECKED - SLD	REVISED -
#MODELNAME#	PLOT DATE = 8/17/2015	DATE - 8/17/2015	REVISED -

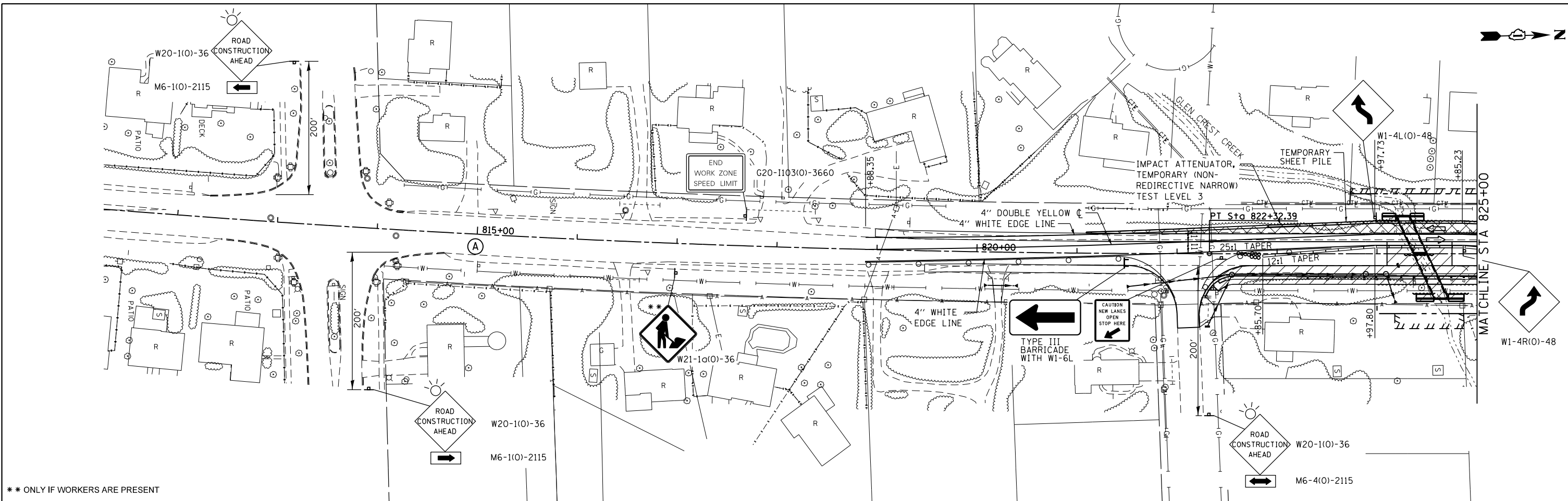
**STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION**

MAINTENANCE OF TRAFFIC - STAGE 2 PLAN

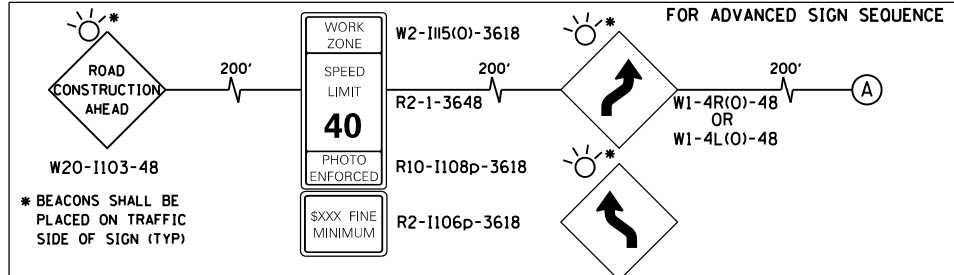
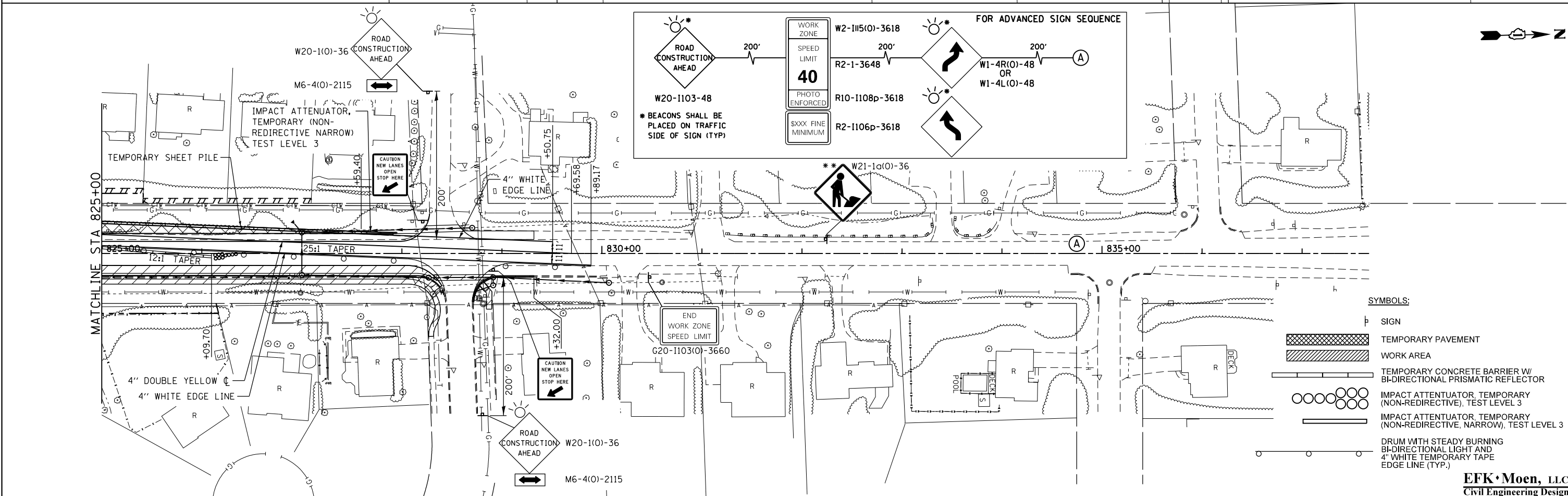
SCALE: 1"=50' SHEET 5 OF 7 SHEETS STA. 811+00 TO STA. 838+00

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
870	534X-B	DUPAGE	66	28
CONTRACT NO. 60V29				
ILLINOIS FED. AID PROJECT				

EFK Moen, LLC
Civil Engineering Design



** ONLY IF WORKERS ARE PRESENT



** BEACONS SHALL BE PLACED ON TRAFFIC SIDE OF SIGN (TYP)

- SYMBOLS:**
- SIGN
 - TEMPORARY PAVEMENT
 - WORK AREA
 - TEMPORARY CONCRETE BARRIER W/ BI-DIRECTIONAL PRISMATIC REFLECTOR
 - IMPACT ATTENUATOR, TEMPORARY (NON-REDIRECTIVE), TEST LEVEL 3
 - IMPACT ATTENUATOR, TEMPORARY (NON-REDIRECTIVE, NARROW), TEST LEVEL 3
 - DRUM WITH STEADY BURNING BI-DIRECTIONAL LIGHT AND 4" WHITE TEMPORARY TAPE EDGE LINE (TYP.)

FILE NAME =	USER NAME = jd	DESIGNED - JRD	REVISED -
Y:\13015 WO 1 Glen Crest Creek\DCN\Design\Prelim\PlotSheets\160V29-029-staging-3.dwg		DRAWN - JRD	REVISED -
		CHECKED - SLD	REVISED -
#MODELNAME#	PLOT DATE = 8/17/2015	DATE - 8/17/2015	REVISED -

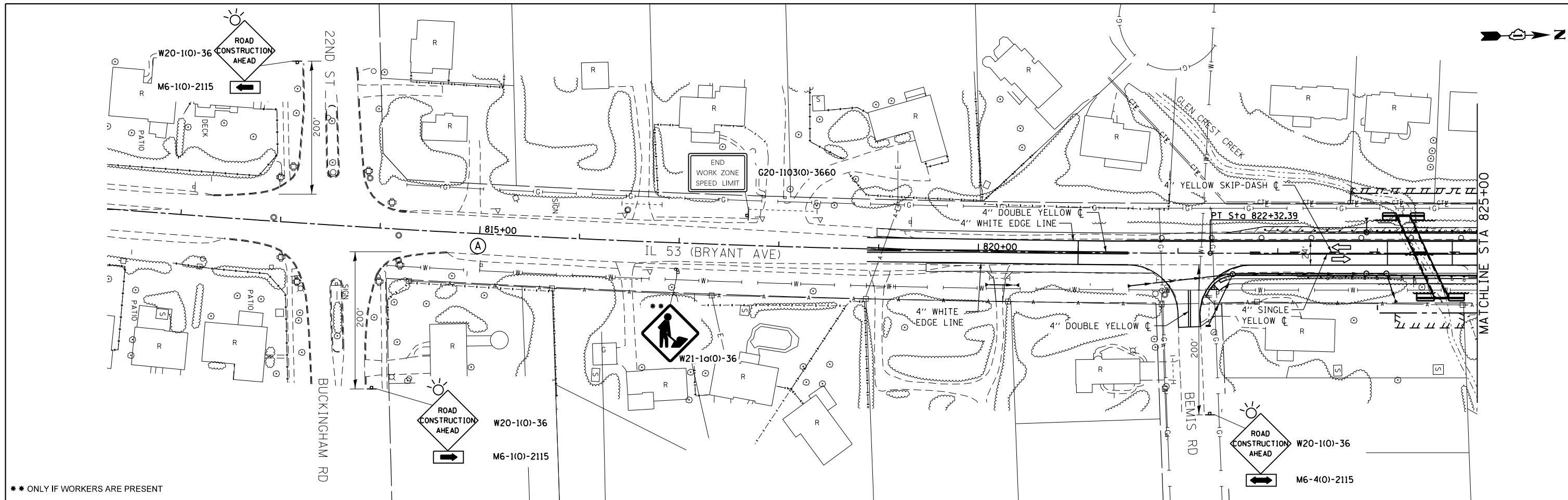
**STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION**

MAINTENANCE OF TRAFFIC - STAGE 3 PLAN

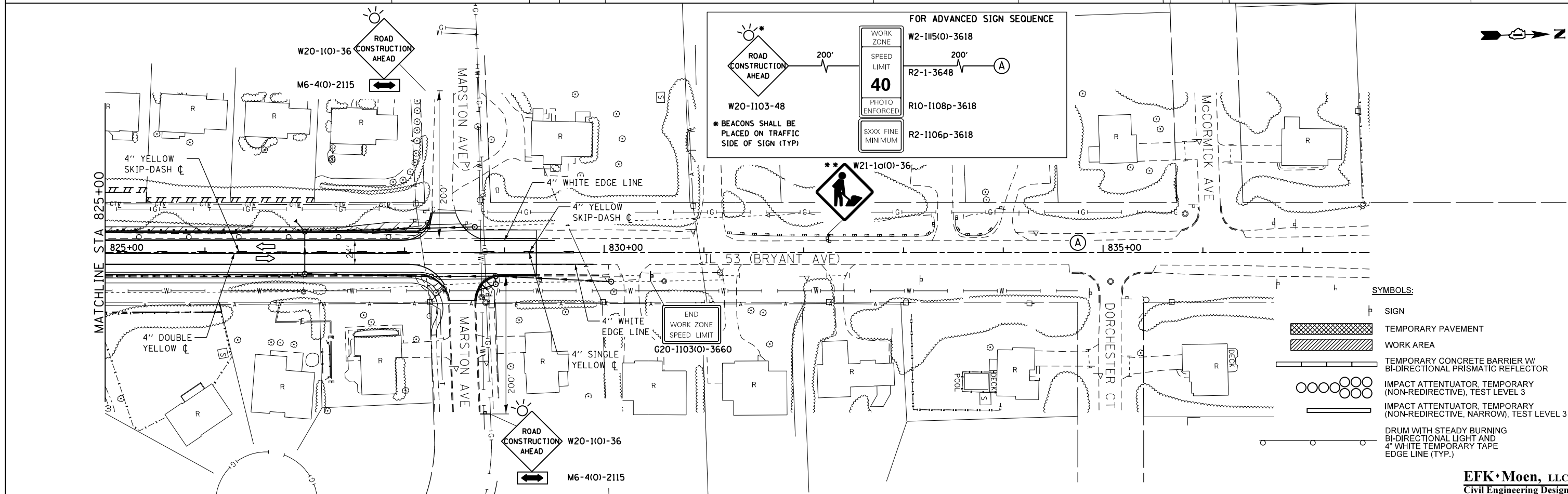
SCALE: 1"=50' SHEET 6 OF 7 SHEETS STA. 811+00 TO STA. 838+00

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
870	534X-B	DUPAGE	66	29
CONTRACT NO. 60V29			ILLINOIS FED. AID PROJECT	

EFK Moen, LLC
Civil Engineering Design



** ONLY IF WORKERS ARE PRESENT



- SYMBOLS:**
- SIGN
 - TEMPORARY PAVEMENT
 - WORK AREA
 - TEMPORARY CONCRETE BARRIER W/ BI-DIRECTIONAL PRISMATIC REFLECTOR
 - IMPACT ATTENUATOR, TEMPORARY (NON-REDIRECTIVE), TEST LEVEL 3
 - IMPACT ATTENUATOR, TEMPORARY (NON-REDIRECTIVE, NARROW), TEST LEVEL 3
 - DRUM WITH STEADY BURNING BI-DIRECTIONAL LIGHT AND 4" WHITE TEMPORARY TAPE EDGE LINE (TYP.)

FILE NAME =	USER NAME = jd	DESIGNED - JRD	REVISED -
Y:\13815 WO 1 Glen Crest Creek\Design\Pre\1m\PlotSheets\160V29-030-staging-4.dgn		DRAWN - JRD	REVISED -
		CHECKED - SLD	REVISED -
#MODELNAME#	PLOT DATE = 8/17/2015	DATE - 8/17/2015	REVISED -

**STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION**

MAINTENANCE OF TRAFFIC - STAGE 4 PLAN

SCALE: 1"=50' SHEET 7 OF 7 SHEETS STA. 811+00 TO STA. 838+00

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
870	534X-B	DUPAGE	66	30
CONTRACT NO. 60V29				
ILLINOIS FED. AID PROJECT				

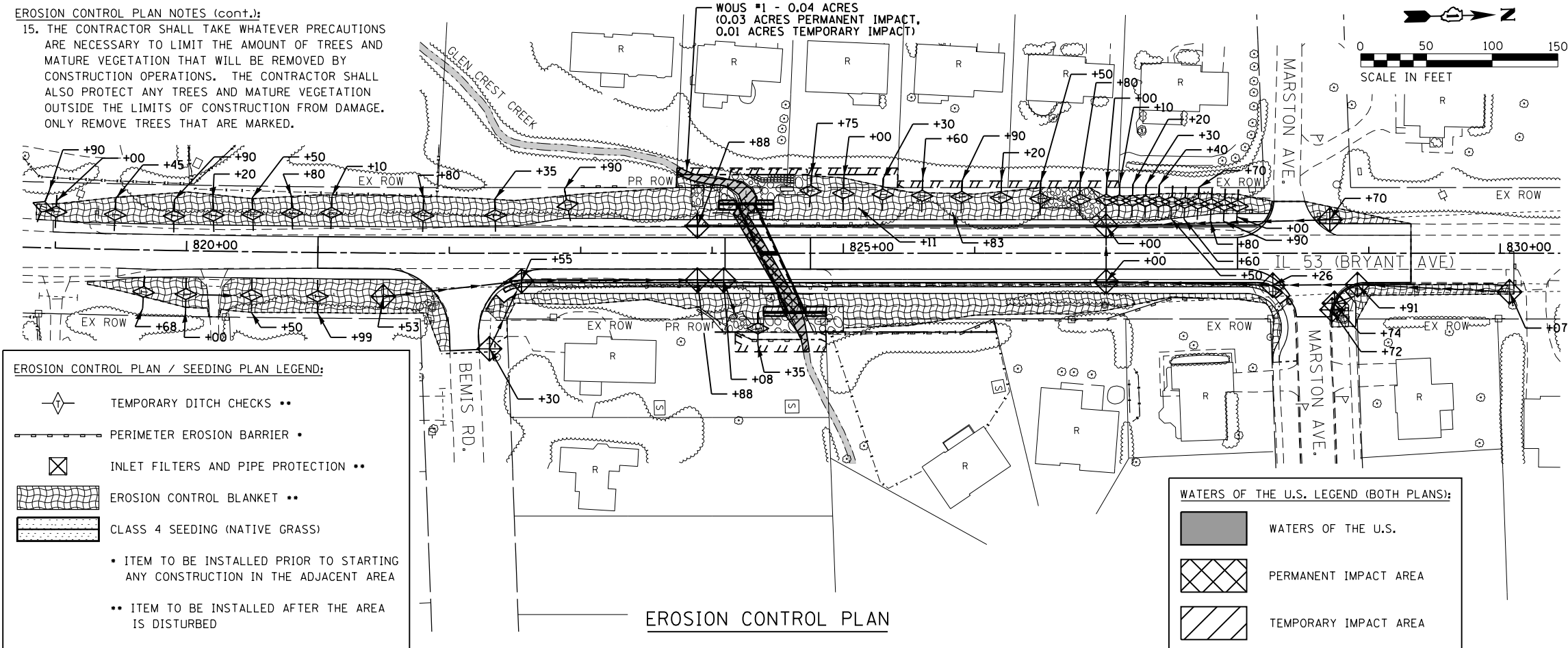
EFK Moen, LLC
Civil Engineering Design

EROSION CONTROL PLAN NOTES:

1. THE CONTRACTOR SHALL PROVIDE AND MAINTAIN INLET FILTERS AT ALL PROPOSED DRAINAGE STRUCTURES AND AT OTHER LOCATIONS DIRECTED BY THE ENGINEER AND/OR SHOWN ON PLANS.
2. EROSION CONTROL MEASURES SHALL BE IN ACCORDANCE WITH THE REQUIREMENTS OF THE STANDARD SPECIFICATIONS AND THE APPLICABLE STATE STANDARDS FOR THE DURATION OF THE PROJECT, OR UNTIL SUCH TIME AS DIRECTED BY THE ENGINEER.
3. AT ANY AREA WHERE THERE IS NO PROPOSED EARTH GRADING, THE EXISTING GROUND COVER SHALL REMAIN.
4. THE CONTRACTOR SHALL PROVIDE A PLAN TO AVOID EROSION/ SEDIMENT DURING STORM SEWER INSTALLATION.
5. ALL E&S MEASURES WILL BE MAINTAINED IN ACCORDANCE WITH THE IDOT EROSION AND SEDIMENT CONTROL FIELD GUIDE FOR CONSTRUCTION INSPECTION AND IDOT'S BEST MANAGEMENT PRACTICES - MAINTENANCE GUIDE (<http://www.idot.illinois.gov/transportation-system/environment/erosion-and-sediment-control/>).
6. THE CONTRACTOR WILL ASSUME RESPONSIBILITY FOR MAINTENANCE OF ALL SOIL EROSION CONTROL DURING CONSTRUCTION.
7. THE CONTRACTOR SHALL CHECK ALL E&S MEASURES WEEKLY AND AFTER EACH RAINFALL, 0.5 INCHES OR GREATER IN A 24 HOUR PERIOD, OR EQUIVALENT SNOWFALL. ADDITIONALLY DURING WINTER MONTHS, ALL MEASURES SHOULD BE CHECKED BY THE CONTRACTOR AFTER EACH SIGNIFICANT SNOWMELT.
8. THE CONTRACTOR SHOULD PROVIDE TO THE RESIDENT ENGINEER A PLAN TO ENSURE THAT A STABILIZED FLOW LINE WILL BE PROVIDED DURING STORM SEWER CONSTRUCTION. THE USE OF A STABILIZED FLOW LINE BETWEEN INSTALLED STORM SEWER AND OPEN DISTURBANCE WILL REDUCE THE POTENTIAL FOR THE OFFSITE DISCHARGE OF SEDIMENT- BEARING WATERS, ESPECIALLY WHEN RAIN IS FORECASTED, SO THAT FLOW WILL NOT ERODE. LACK OF APPROVED PLAN OR FAILURE TO COMPLY WILL RESULT IN AN E&S DEFICIENCY DEDUCTION.
9. ANY LOOSE MATERIAL DEPOSITED IN THE FLOW LINE OF DRAINAGE STRUCTURES, WHICH OBSTRUCTS THE NATURAL FLOW OF WATER, SHALL BE REMOVED AT THE CLOSE OF EACH WORKING DAY. PRIOR TO ACCEPTANCE OF THE IMPROVEMENT, ALL DRAINAGE STRUCTURES SHALL BE FREE OF DIRT AND DEBRIS. THIS WORK WILL NOT BE PAID FOR SEPARATELY BUT SHALL BE CONSIDERED AS INCIDENTAL.
10. TEMPORARY OR PERMANENT STABILIZATION SHALL BE INITIATED IMMEDIATELY UPON COMPLETION OF DISTURBANCE OR IF THE WORK AREA IS TO BE LEFT UNDISTURBED FOR 14 DAYS OR MORE.
11. UNDER NO CIRCUMSTANCES SHALL THE CONTRACTOR PROLONG FINAL GRADING AND SHAPING SO THAT THE ENTIRE PROJECT CAN BE PERMANENTLY SEEDED AT ONE TIME.
12. EROSION CONTROL ITEMS ARE CONSIDERED TO BE A HIGH PRIORITY ON THIS CONTRACT. THE CONTRACTOR IS RESPONSIBLE FOR INSTALLATION OF ANY ADDITIONAL EROSION CONTROL MEASURES NECESSARY TO PREVENT EROSION AND SEDIMENTATION AS DETERMINED BY THE RESIDENT ENGINEER.
13. THIS PROJECT REQUIRES A U.S. ARMY CORPS OF ENGINEERS (USACE) 404 PERMIT THAT WILL BE SECURED BY THE DEPARTMENT. AS A CONDITION OF THIS PERMIT, THE CONTRACTOR WILL NEED TO SUBMIT AN IN-STREAM WORK PLAN (INCLUDING WORK IN WETLANDS) TO THE DEPARTMENT FOR APPROVAL. GUIDELINES ON ACCEPTABLE IN-STREAM WORK TECHNIQUES (INCLUDING WORK IN WETLANDS) CAN BE FOUND ON THE USACE WEBSITE. THE USACE DEFINES AND DETERMINES IN-STREAM WORK (WHICH INCLUDES WORK WITHIN WETLANDS). THE COST OF ALL MATERIALS AND LABOR NECESSARY TO COMPLY WITH THE ABOVE PROVISIONS TO PREPARE AND IMPLEMENT AN IN-STREAM WORK PLAN (INCLUDING WORK WITHIN WETLANDS) WILL NOT BE PAID FOR SEPARATELY, BUT SHALL BE CONSIDERED AS INCLUDED IN THE UNIT BID PRICES OF THE CONTRACT AND NO ADDITIONAL COMPENSATION WILL BE ALLOWED.
14. "WETLANDS NO INTRUSION" SIGNAGE SHOULD ALSO BE PROVIDED AT THE BOUNDARY OF ALL UN-IMPACTED WETLANDS AND/OR WATERS OF THE U.S. (WOUS). THE CONTRACTOR CAN BORROW THE SIGNS FROM THE BUREAU OF MAINTENANCE. INCLUDE TEMPORARY FENCING AND WETLAND SIGNAGE WITHIN THE EROSION AND SEDIMENT CONTROL STRATEGY.

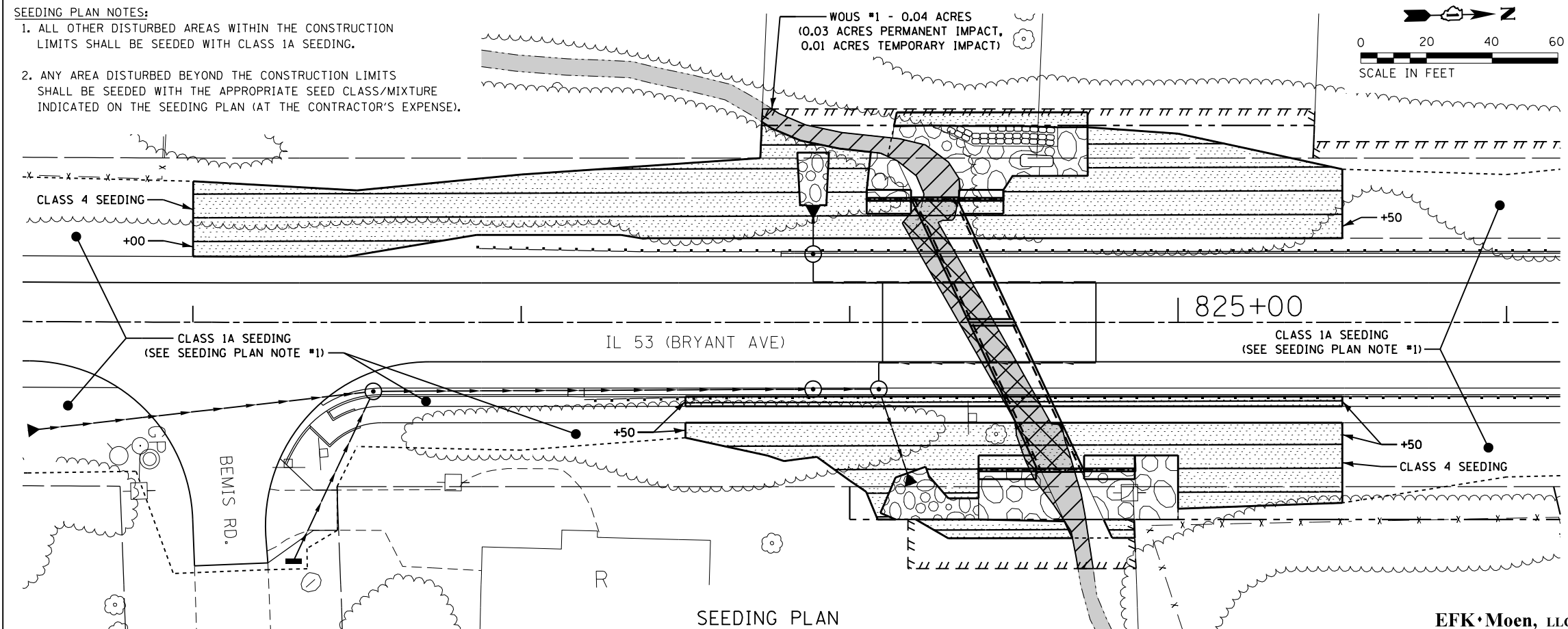
EROSION CONTROL PLAN NOTES (cont.):

15. THE CONTRACTOR SHALL TAKE WHATEVER PRECAUTIONS ARE NECESSARY TO LIMIT THE AMOUNT OF TREES AND MATURE VEGETATION THAT WILL BE REMOVED BY CONSTRUCTION OPERATIONS. THE CONTRACTOR SHALL ALSO PROTECT ANY TREES AND MATURE VEGETATION OUTSIDE THE LIMITS OF CONSTRUCTION FROM DAMAGE. ONLY REMOVE TREES THAT ARE MARKED.



SEEDING PLAN NOTES:

1. ALL OTHER DISTURBED AREAS WITHIN THE CONSTRUCTION LIMITS SHALL BE SEEDED WITH CLASS 1A SEEDING.
2. ANY AREA DISTURBED BEYOND THE CONSTRUCTION LIMITS SHALL BE SEEDED WITH THE APPROPRIATE SEED CLASS/MIXTURE INDICATED ON THE SEEDING PLAN (AT THE CONTRACTOR'S EXPENSE).



FILE NAME =	USER NAME = jrd	DESIGNED - JRD	REVISED -
Y:\13015 W0 1 Glen Crest Creek\Design\Prelim\Plotsheets\0160V29-031-eros.dgn		DRAWN - JRD/BJG	REVISED -
		CHECKED - SLD	REVISED -
MODELNAME#	PLOT DATE = 8/6/2015	DATE - 8/6/2015	REVISED -

**STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION**

EROSION CONTROL & SEEDING PLAN

SCALE: VARIES SHEET 1 OF 1 SHEETS STA. 817+00 TO STA. 833+00

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
870	534X-B	DUPAGE	66	31
CONTRACT NO. 60V29				
ILLINOIS FED. AID PROJECT				

EFK·Moen, LLC
Civil Engineering Design

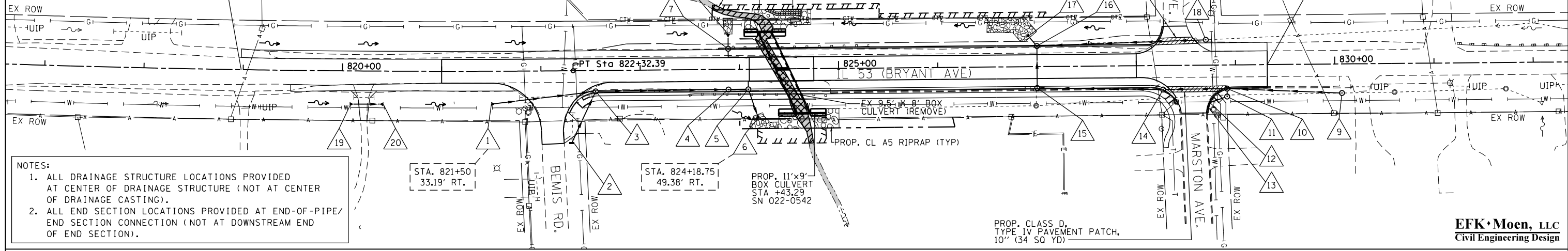
PROP. CURVE EX53-1
 PI STA. = 815+23.74
 Δ = 5° 55' 13" (LT)
 D = 0° 25' 02"
 R = 13,728.46'
 T = 709.91'
 L = 1,418.56'
 E = 18.34'
 P.C. STA. = 808+13.83
 P.T. STA. = 822+32.39

**PROJECT BEGINS
 STA. 818 + 98**

**PROJECT ENDS
 STA. 829 + 32**

WATERS OF THE U.S. LEGEND:

WATERS OF THE U.S.
 PERMANENT IMPACT AREA
 TEMPORARY IMPACT AREA



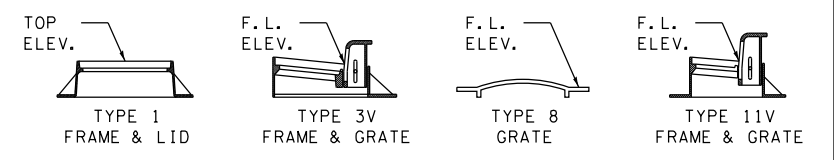
NOTES:

- ALL DRAINAGE STRUCTURE LOCATIONS PROVIDED AT CENTER OF DRAINAGE STRUCTURE (NOT AT CENTER OF DRAINAGE CASTING).
- ALL END SECTION LOCATIONS PROVIDED AT END-OF-PIPE/ END SECTION CONNECTION (NOT AT DOWNSTREAM END OF END SECTION).

EFK Moen, LLC
 Civil Engineering Design

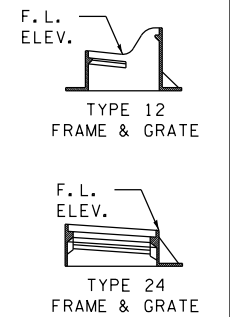
DRAINAGE STRUCTURE SCHEDULE

DRAINAGE PLAN STRUCTURE NUMBER	LOCATION		STRUCTURE CASTING TOP ELEVATION (FEET)	STRUCTURE CASTING FLOWLINE ELEVATION (FEET)	LOWEST PIPE INVERT ELEVATION (FEET)	INLETS TA T8G (EACH)	INLETS TB T11V F&G (EACH)	MAN TA 4 DIA T1F CL (EACH)	MAN TA 4 DIA T3V F&G (EACH)	MAN TA 4 DIA T8G (EACH)	MAN TA 4 DIA T12F&G (EACH)	MAN TA 4 DIA T24F&G (EACH)	MAN TA 5 DIA T3V F&G (EACH)	MAN TA 5 DIA T8G (EACH)	MAN TA 5 DIA T11V F&G (EACH)	MAN TA 5 DIA T3V F&G (EACH)	MAN TA 7 DIA T12F&G (EACH)	MAN TA 7 DIA T12F&G (EACH)	FLAT SLAB TOP REQ'D	
	STATION	OFFSET																		
2	STA. 822+30.63	72.67' RT.	-	715.85	712.81	1													-	
3	STA. 822+54.97	21.02' RT.	-	714.84	709.96												1		YES	
4	STA. 823+88.88	20.35' RT.	-	714.04	708.97														YES	
5	STA. 824+08.88	20.35' RT.	-	714.06	708.31														YES	
7	STA. 823+88.88	20.79' LT.	-	714.06	709.15														YES	
9	STA. 830+07.07	29.34' RT.	-	726.60	718.60					1									-	
10	STA. 828+91.34	23.84' RT.	-	723.31	715.11											1			-	
11	STA. 828+91.34	31.84' RT.	723.77	-	716.07			1											-	
12	STA. 828+73.75	38.02' RT.	-	722.17	716.22		1												-	
13	STA. 828+71.73	44.30' RT.	-	722.38	716.31		1												-	
14	STA. 828+26.88	24.27' RT.	-	721.72	714.26				1										-	
15	STA. 827+00.00	21.56' RT.	-	718.52	712.61											1			YES	
16	STA. 827+00.00	20.79' LT.	-	718.60	712.06												1		YES	
18	STA. 828+70.28	25.52' LT.	-	721.00	714.16														YES	
TOTALS						1	2	1	1	1	1	1	2	1	1	1	1	1	1	



STORM SEWER RIPRAP SCHEDULE

DRAINAGE PLAN STRUCTURE NUMBER	LOCATION		STONE RIPRAP CL A4 (SQ YD)	FILTER FABRIC (SQ YD)
	STATION	OFFSET		
6	STA. 824+18.75	49.38' RT.	37	37
8	STA. 823+88.88	31.92' LT.	18	18
17	STA. 826+92.77	29.32' LT.	101	101
TOTALS			156	156



PIPE CULVERT SCHEDULE

PLAN PIPE I.D. (DS to DS)	UPSTREAM INVERT (@ INSIDE FACE OF D.S. OR PIPE END / F.E.S.)	DOWNSTREAM INVERT (@ INSIDE FACE OF D.S. OR PIPE END / F.E.S.)	APPROX. SLOPE	P CUL CL D 1 15 (FOOT)
19 to 20	717.39	716.23	4.38%	27
TOTALS				27

STORM SEWER SCHEDULE

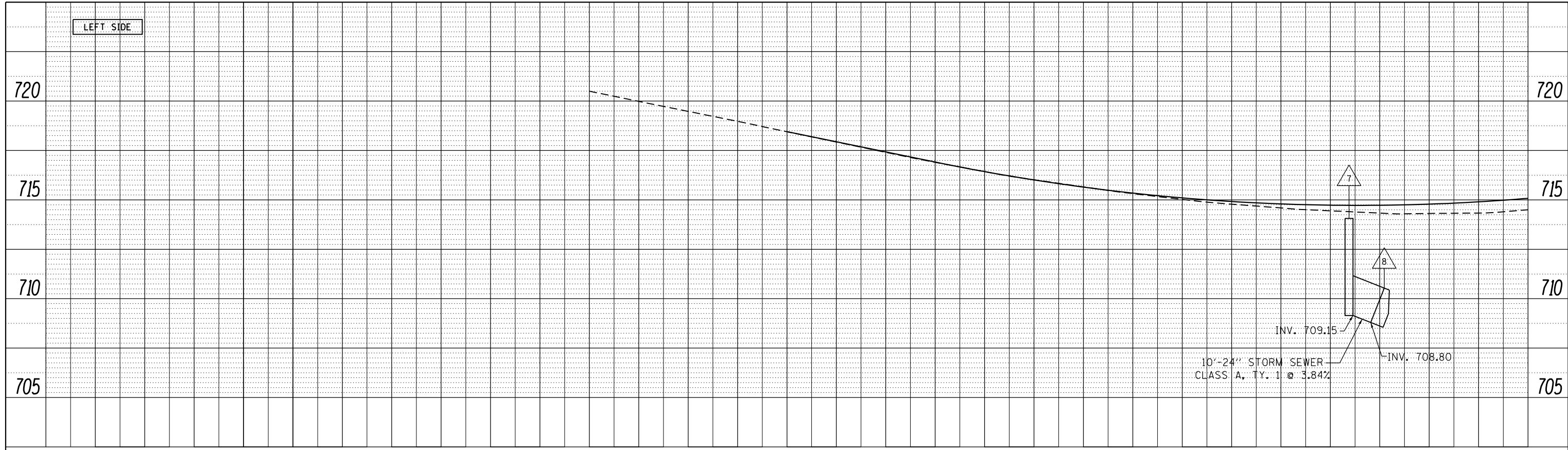
PLAN PIPE I.D. (DS to DS)	UPSTREAM INVERT (@ INSIDE FACE OF D.S. OR PIPE END / F.E.S.)	DOWNSTREAM INVERT (@ INSIDE FACE OF D.S. OR PIPE END / F.E.S.)	APPROX. SLOPE	PIPE LENGTH INSIDE UPSTREAM D.S. (FOOT)	PIPE LENGTH INSIDE DOWNSTREAM D.S. (FOOT)	STORM SEW CL A 1 24 (FOOT)	STORM SEWERS JKD 30 (FOOT)	SS CL A 1 EQRS 48 (FOOT)	STORM SEW CL A 2 24 (FOOT)	STORM SEW WM REQ 12 (FOOT)	STORM SEW WM REQ 18 (FOOT)	STORM SEW WM REQ 24 (FOOT)	STORM SEW WM REQ 36 (FOOT)	TRENCH BACKFILL (CU YD)	NOTES
1 to 3	714.80	710.59	4.11%	-	1.50									17.1	
2 to 3	712.81	711.08	3.30%	0.50	1.50					55				2.9	
3 to 4	709.96	709.03	0.72%	1.50	0.50	131								40.7	
4 to 5	708.97	708.88	0.53%	0.50	0.50	17								5.1	
5 to 6	708.31	708.00	1.10%	0.50	-							30		6.3	
7 to 8	709.15	708.80	3.84%	0.50	-	10								1.4	
9 to 10	718.60	715.21	3.05%	0.50	1.00								113	66.3	
13 to 12	716.31	716.29	1.19%	0.50	0.50					4				0.7	
12 to 11	716.22	716.13	0.56%	0.50	0.50					17				11.8	
11 to 10	716.07	716.04	0.80%	0.50	1.00					5				-	
10 to 14	715.11	714.34	1.29%	1.00	0.50								62	61.9	
14 to 15	714.26	712.69	1.28%	0.50	1.00								124	99.8	
15 to 16	712.61	712.15	1.26%	1.00	1.50		39							3.2	CLASS A, TYPE 1
16 to 17	712.06	712.00	0.74%	1.25	-									6.2	
18 to 16	714.16	712.15	1.22%	1.00	1.50				9					145.1	
TOTALS						158	39	9	124	81	104	205	167	468.5	

* NOTE: MINIMUM LENGTH REQUIRED (ALONG C.L. OF PIPE) TO PROVIDE MAXIMUM CONCRETE FILL SLOPE ACROSS NON-DROP INLETS/MANHOLES - REFER TO APPROPRIATE IDOT HIGHWAY STANDARD.

END SECTION SCHEDULE

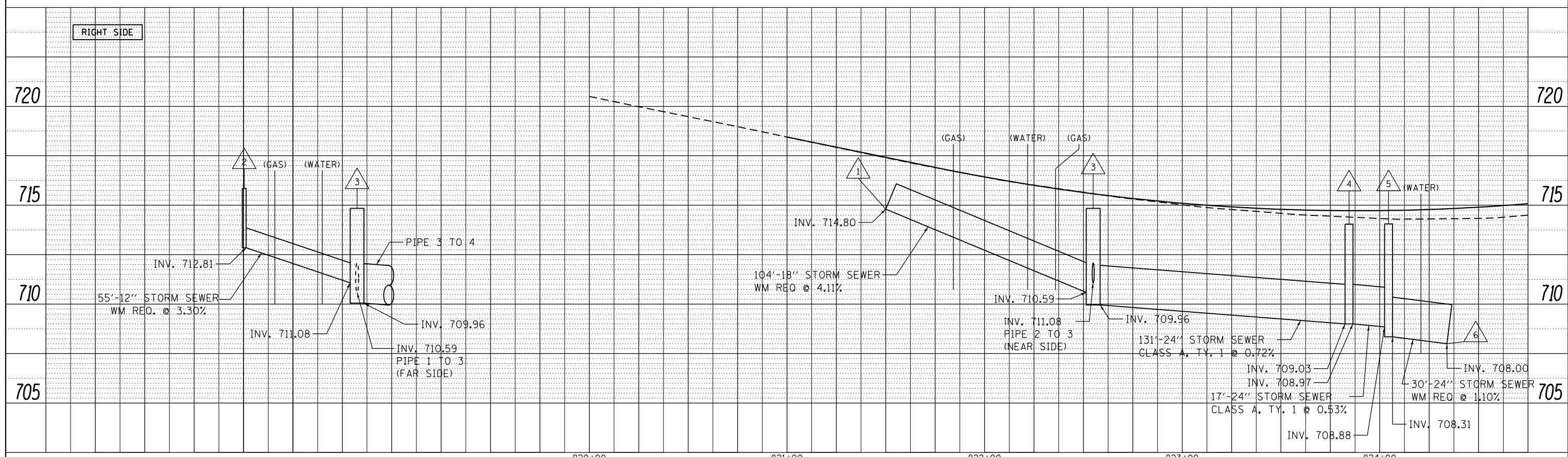
DRAINAGE PLAN STRUCTURE NUMBER	LOCATION		END SECTION INVERT ELEVATION (@ PIPE CONNECTION) (EACH)	PRC FLAR END SEC 24 (EACH)	PRC FL END S EQ RS 48 (EACH)	END SEC 15 (EACH)
	STATION	OFFSET				
8	STA. 823+88.88	31.92' LT.	708.80	1		
17	STA. 826+92.77	29.32' LT.	712.00		1	
19	STA. 820+11.23	33.43' RT.	717.39			1
20	STA. 820+37.67	33.37' RT.	716.23			1
TOTALS			1	1	2	

PLAN	SURVEYED	DATE
	PLOTTED	
	NOTED	
	CHECKED	
	FILE NAME	
	NO.	



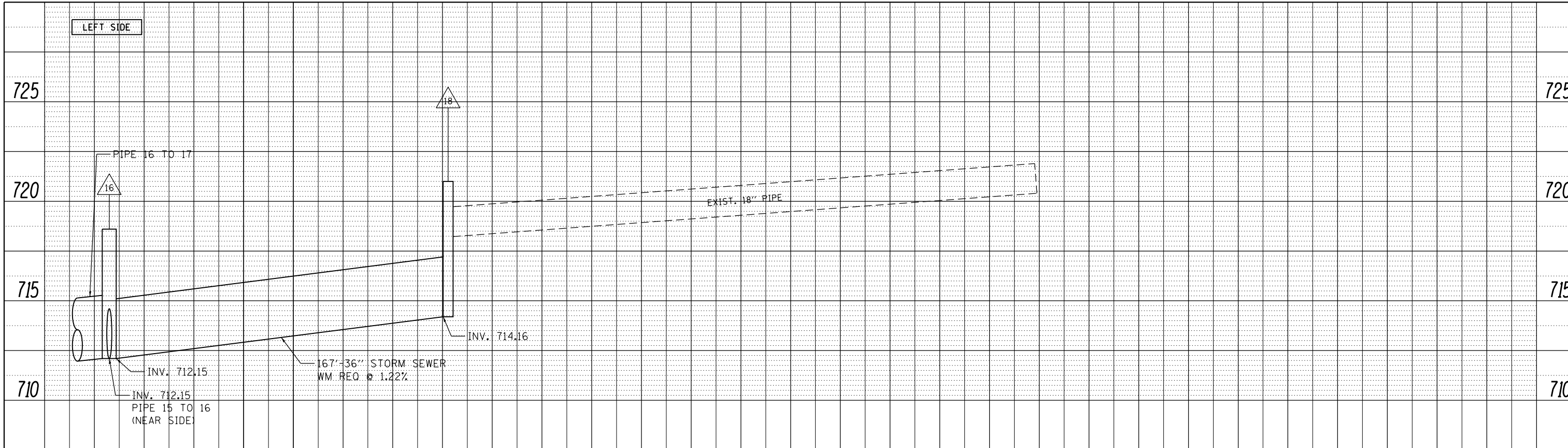
EFK Moen, LLC
Civil Engineering Design

PROFILE	SURVEYED	DATE
	PLOTTED	
	GRADES CHECKED	
	STRUCTURE NOTATIONS CHECKED	
	NO.	



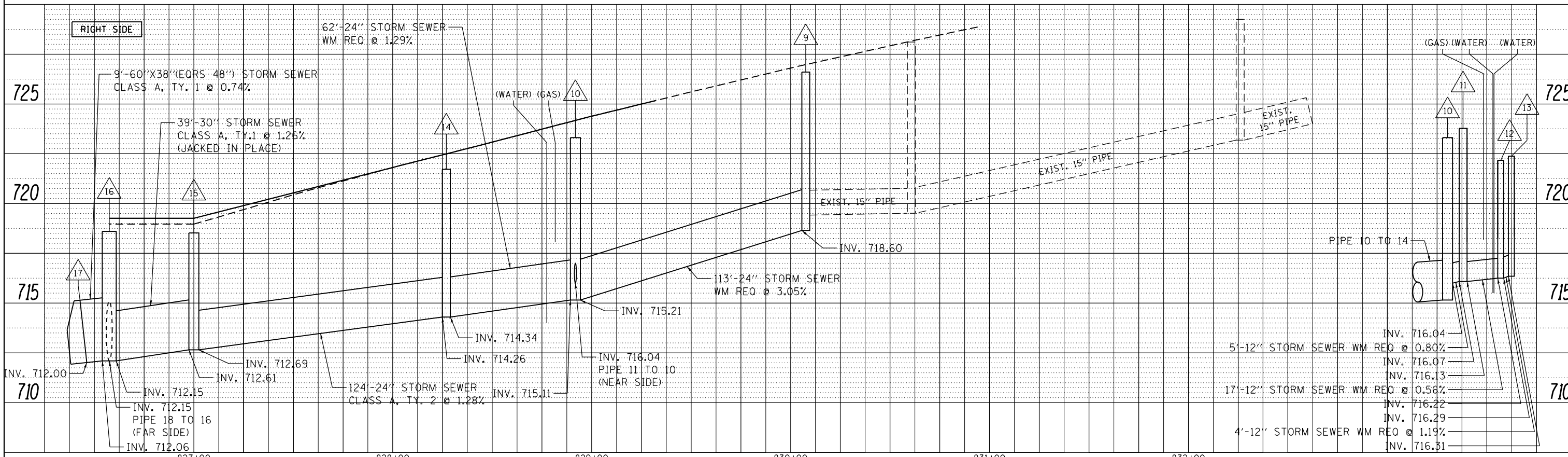
FILE NAME = Y:\13015 WD 1 Glen Crest Creek\DN\Design\	USER NAME = jd	DESIGNED - BJB	REVISED -	STATE OF ILLINOIS DEPARTMENT OF TRANSPORTATION	PROPOSED DRAINAGE PROFILES			F.A.P. RT. = 870	SECTION = 534X-B	COUNTY = DUPAGE	TOTAL SHEETS = 66	SHEET NO. = 33
MODELNAME	PLOT SCALE = 100.0000' / 1"	DRAWN - BJB	REVISED -		SCALE: 25'H=2.5'V	SHEET 2	OF 3 SHEETS	STA. 821+25	TO STA. 824+25	CONTRACT NO. 60V29		
	PLOT DATE = 8/6/2015	CHECKED - SLD	REVISED -							ILLINOIS FED. AID PROJECT		
		DATE - 8/6/2015	REVISED -									

PLAN	SURVEYED	DATE
	PLOTTED	
	GRADES CHECKED	
	ALIGNMENT CHECKED	
	STRUCTURE NOTATIONS CHECKED	
	NOTE BOOK NO.	
	CARD FILE NAME	



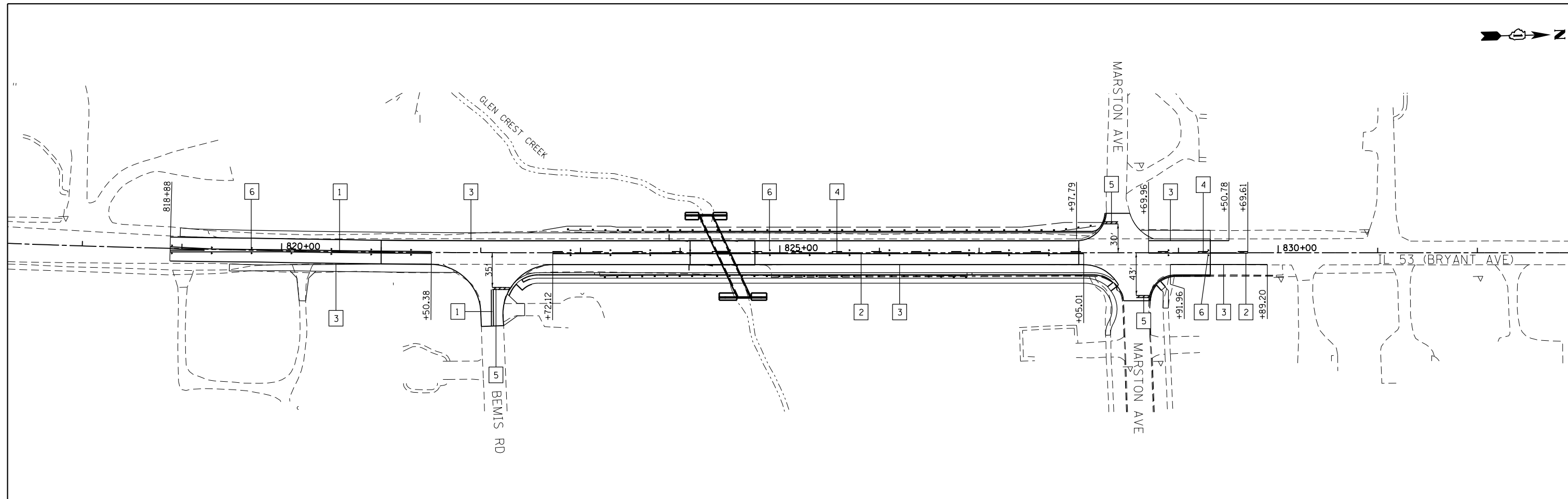
EFK Moen, LLC
Civil Engineering Design

PROFILE	SURVEYED	DATE
	PLOTTED	
	GRADES CHECKED	
	ALIGNMENT CHECKED	
	STRUCTURE NOTATIONS CHECKED	
	NOTE BOOK NO.	
	CARD FILE NAME	



FILE NAME =	USER NAME = jd	DESIGNED - BJK	REVISED -	STATE OF ILLINOIS DEPARTMENT OF TRANSPORTATION	PROPOSED DRAINAGE PROFILES	F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
Y:\13015 WD 1 Glen Crest Creek\DN\Design\Prelim\Plotsheets\0160V29-032-034-drain.dgn	DRAWN - BJK	REVISED -	870			534X-B	DUPAGE	66	34	
PLOT SCALE = 100.0000' / in.	CHECKED - SLD	REVISED -	CONTRACT NO. 60V29							
MODELNAME	DATE - 8/6/2015	REVISED -	ILLINOIS FED. AID PROJECT							

SCALE: 25'H:2.5'V SHEET 3 OF 3 SHEETS STA. 826+75 TO STA. 830+25



LEGEND

- 1 LINE 4" (DOUBLE YELLOW SOLID LINES)
- 2 LINE 4" (YELLOW SOLID LINE)
- 3 LINE 4" (WHITE SOLID LINE)
- 4 LINE 4" (YELLOW - 10' DASH, 30' SKIP)
- 5 LINE 24" (WHITE SOLID LINE)
- 6 RAISED REFLECTIVE PAVEMENT MARKERS/
RAISED PAVEMENT MARKER REFLECTOR REPLACEMENT

FILE NAME =	USER NAME = jd	DESIGNED - JRD	REVISED -
Y:\13015 WO 1 Glen Crest Creek\Design\Pre1m\PlotSheets\0160V29-035-pmk.dgn		DRAWN - JRD	REVISED -
	PLOT SCALE = 100.0000' / 1in.	CHECKED - SLD	REVISED -
#MODELNAME#	PLOT DATE = 8/6/2015	DATE - 8/6/2015	REVISED -

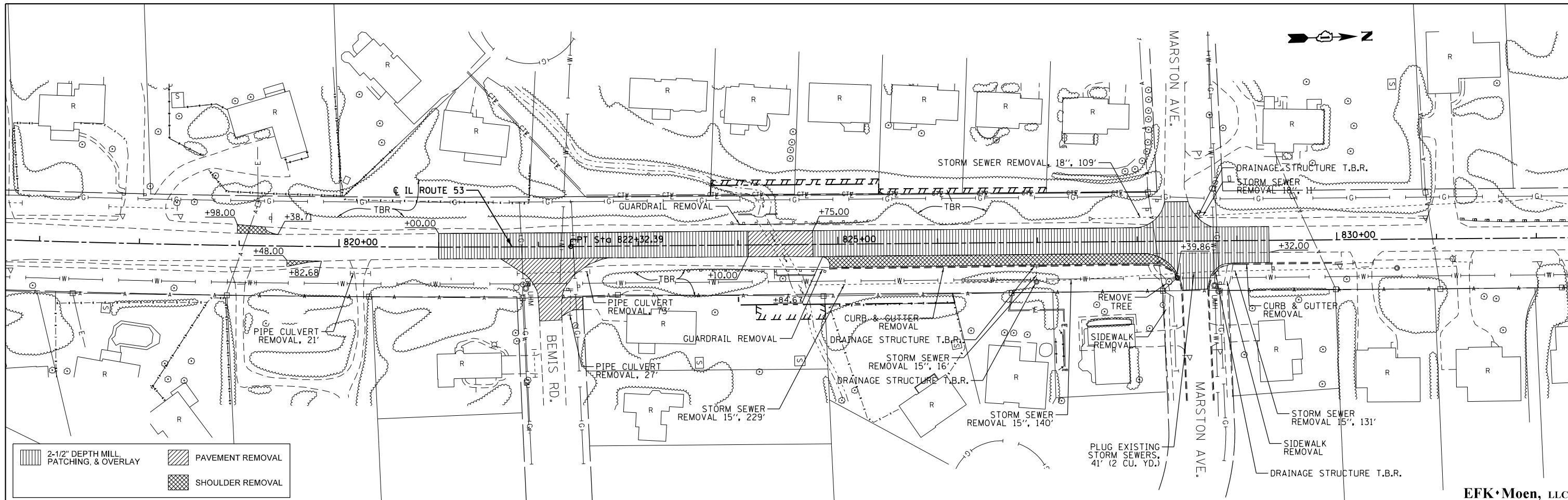
**STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION**

PAVEMENT MARKING PLAN

SCALE: 1"=50' SHEET 1 OF 1 SHEETS STA. 817+00 TO STA. 833+00

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
870	534X-B		66	35
CONTRACT NO. 60V29			ILLINOIS FED. AID PROJECT	

EFK·Moen, LLC
Civil Engineering Design



EFK Moen, LLC
Civil Engineering Design

HMA SURFACE REMOVAL APPROX. ZERO DEPTH MILLING LOCATION SUMMARY		
@ L-EOP	@ C.L.	@ R-EOP
823+81.26	823+52.13	823+62.89
826+63.21	827+20.51	827+14.44

HMA SURFACE REMOVAL & HMA BINDER COURSE DEPTH SUMMARY	
STATION	APPROX. BINDER COURSE DEPTH (ITEM #7 ON PROP. TYP. SECTIONS)
823+18	1.5
824+10	4.5
824+75	6.9
827+42	1.5

FILE NAME =	USER NAME = sf	DESIGNED - JRD	REVISED -
Y:\13015 WO 1 Glen Crest Creek\Design\Final\Plotsheets\160\29-036-removal.dgn		DRAWN - LES	REVISED -
	PLOT SCALE = 100.0000' / 1".	CHECKED - SLD	REVISED -
#MODELNAME#	PLOT DATE = 9/21/2015	DATE - 8/6/2015	REVISED -

**STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION**

REMOVAL PLAN

SCALE: 1"=50' SHEET 1 OF 1 SHEETS STA. 817+00 TO STA. 832+00

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
870	534X-B	DUPAGE	66	36
CONTRACT NO. 60V29				
ILLINOIS FED. AID PROJECT				

Bench Mark: CP 21 (BAIRD)
 Rebar on the Corner of Butterfield Road and IL 53 in Front of Mobile Gas Station
 Elevation = 689.28

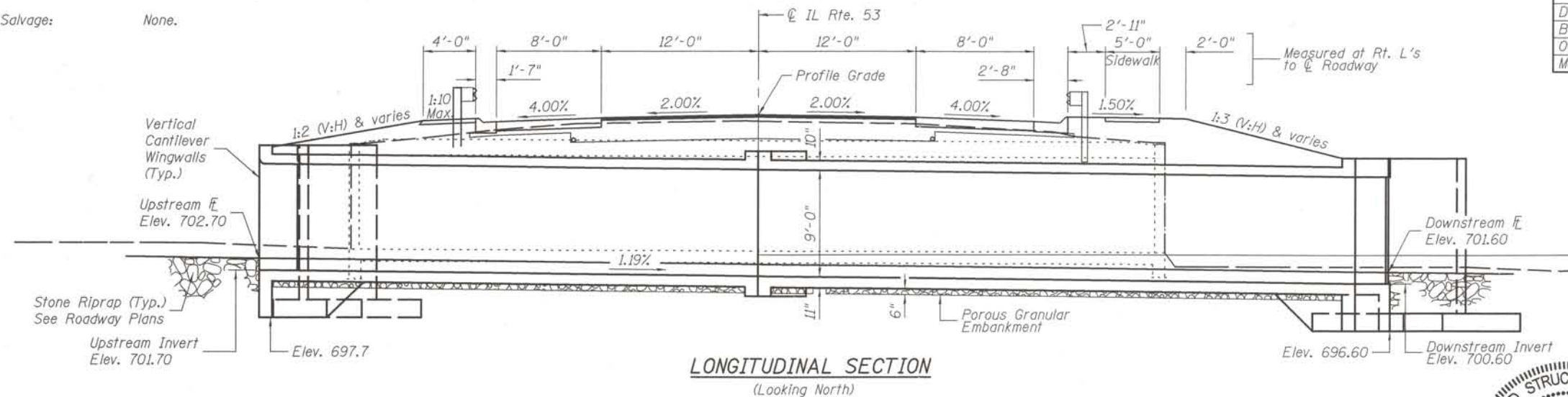
Existing Structure: S.N. 022-2007 is a $\approx 71'-6"$ long, $9'-6" \times 8'-0"$ concrete box culvert built (estimated) prior to 1930 with top slabs rehabilitated at an unknown date. Culvert is skewed $27^\circ 40'$ RA conveying the creek formerly known as the East Branch of DuPage River Tributary #4. Existing structure to be removed and replaced using stage construction.

Salvage: None.

WATERWAY INFORMATION

Drainage Area = 2.72 sq. mi.		Exist. Low Grade Elev. 714.18 @ Sta. 824+05		Prop. Low Grade Elev. 714.19 @ Sta. 823+89			
Flood	Freq. Yr.	Q C.F.S.	Opening Sq. Ft. Exist.	Nat. H.W.E. Prop.	Head - Ft. Exist.	Headwater El. Exist.	Prop.
Design	10	330	35	51	707.3	1.5	708.8
Base	50	435	40	56	707.8	2.2	709.9
Overtopping	100	490	42	58	708.0	2.5	710.5
Max. Calc.	500	670	47	64	708.6	3.6	712.2

2 Yr. Peak Flow = 172 cfs
 2 Yr. Peak Elevation = 705.8
 2 Yr. Bypass Opening = 32 sq. ft.



TOTAL BILL OF MATERIAL

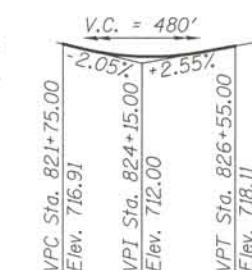
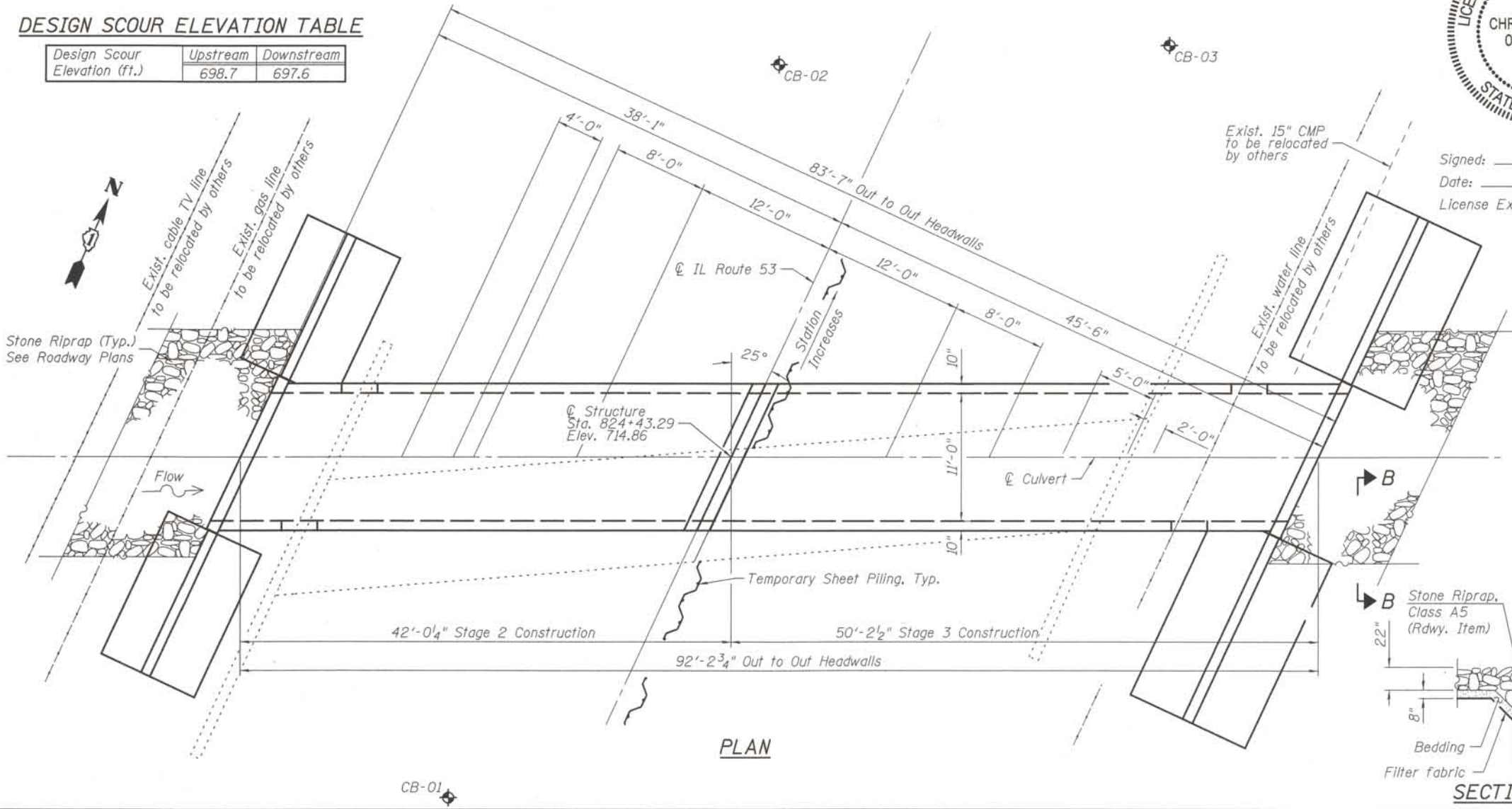
ITEM	UNIT	TOTAL
Porous Granular Embankment	Cu. Yd.	223
Removal of Existing Structures	Each	1
Structure Excavation	Cu. Yd.	614
Reinforcement Bars	Pound	35,340
Bar Splicers	Each	87
Concrete Box Culverts	Cu. Yd.	185.7
Chain Link Fence, 5 Ft. Attached to Structure	Foot	89
Temporary Sheet Piling	Sq. Ft.	1163
Temporary Support System	Each	1



Signed: [Signature]
 Date: 8/5/2015
 License Expires: 11/30/2016

DESIGN SCOUR ELEVATION TABLE

Design Scour Elevation (ft.)	Upstream	Downstream
	698.7	697.6



DESIGN SPECIFICATIONS

2012 AASHTO LRFD Bridge Design Specifications, 6th Edition

DESIGN STRESSES

FIELD UNITS

$f'_c = 3,500$ psi
 $f_y = 60,000$ psi (Reinforcement)

Max. Soil Pressure under footings = 2,500 psf

LOADING HL-93

Allow 50#/sq. ft. for future wearing surface.

INDEX OF SHEETS

1. General Plan and Elevation
2. Stage Construction
3. Cast in Place Culvert Details
4. Wingwall Details
5. Wingwall Details
6. Chain Link Fence Details
7. Temporary Support Details
8. Bar Splicer Assembly Details
9. Boring Logs
10. Boring Logs



GENERAL PLAN & ELEVATION
IL 53 OVER GLEN CREST CREEK
F.A.P. RTE 0870 - SEC. 534X-B
DUPAGE COUNTY
STATION 824+43.29
STRUCTURE NO. 022-0542

EFK Moen, LLC
 Civil Engineering Design
 303 Fountains Parkway, Suite 240
 Fairview Heights, IL 62208
 Phone 618-206-4250

USER NAME = ead	DESIGNED - CTW	REVISOR -
PLLOT SCALE = 1/2" = 1'-0"	CHECKED - CDL	REVISOR -
PLLOT DATE = 8/5/2015	DRAWN - JA	REVISOR -
	DATE - 8/5/2015	REVISOR -

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

GENERAL PLAN AND ELEVATION
S.N. 022-0542 (11'x9' BOX CULVERT) - STA 824+43.29

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
870	534X-B	DUPAGE	66	37

CONTRACT NO. 60V29
 ILLINOIS FED. AID PROJECT

PRINT DATE: 8/5/2015 8:46:49 AM Y:\1\2015\W01\Glen Crest Creek\Drawings\Bridge\Find\Plotsheets\0220542-D160V29-001-GPE.dgn

GENERAL NOTES

Precast alternate is not allowed.

Plan dimensions and details relative to existing plans are subject to nominal construction variations. The Contractor shall field verify existing dimensions and details affecting new construction and make necessary approved adjustments prior to construction or ordering of materials. Such variations shall not be cause for additional compensation for a change in scope of the work, however, the Contractor will be paid for the quantity actually furnished at the unit price bid for the work.

All exposed concrete edges shall have a 3/4" x 45° chamfer, except where shown otherwise.

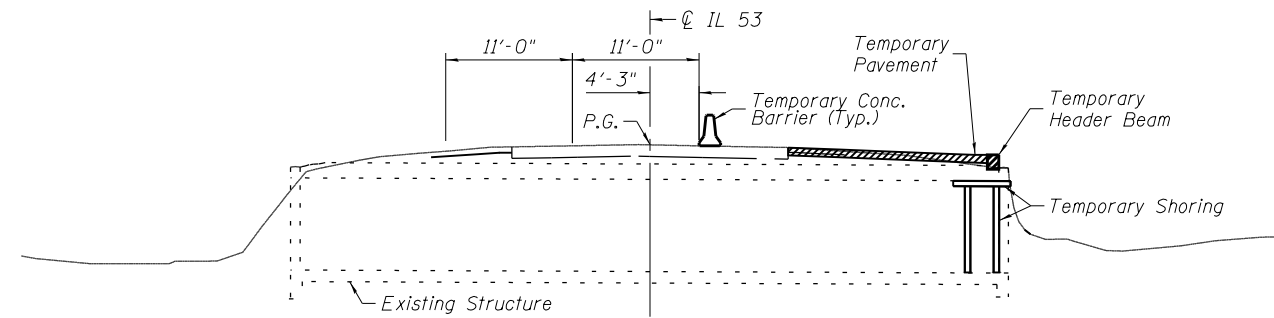
Bars noted thus, 3 x 2- #5 indicates 3 lines of bars with 2 lengths of bars per line.

For "Stone Riprap, Class A5" and "Filter Fabric for use with Riprap" Bill of Material, see Roadway plans.

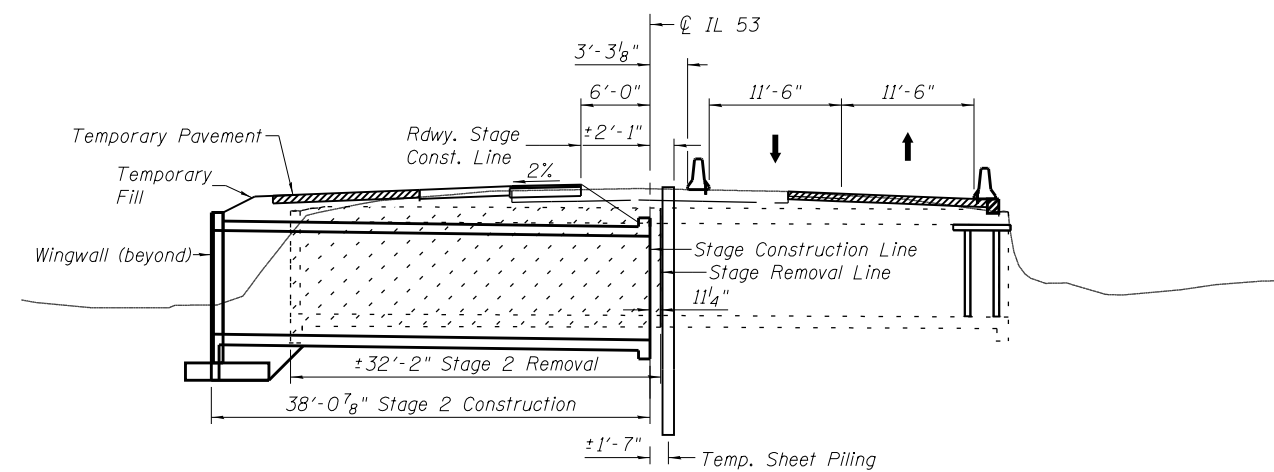
Layout of slope protection system may be varied in the field to suit ground conditions as directed by the Engineer.

It shall be the responsibility of the contractor to divert the stream flow during construction in order to keep the construction area free of water. The method of the water diversion shall be subjected to the approval of the Engineer and the cost shall be included with the cost of the Concrete Box Culverts.

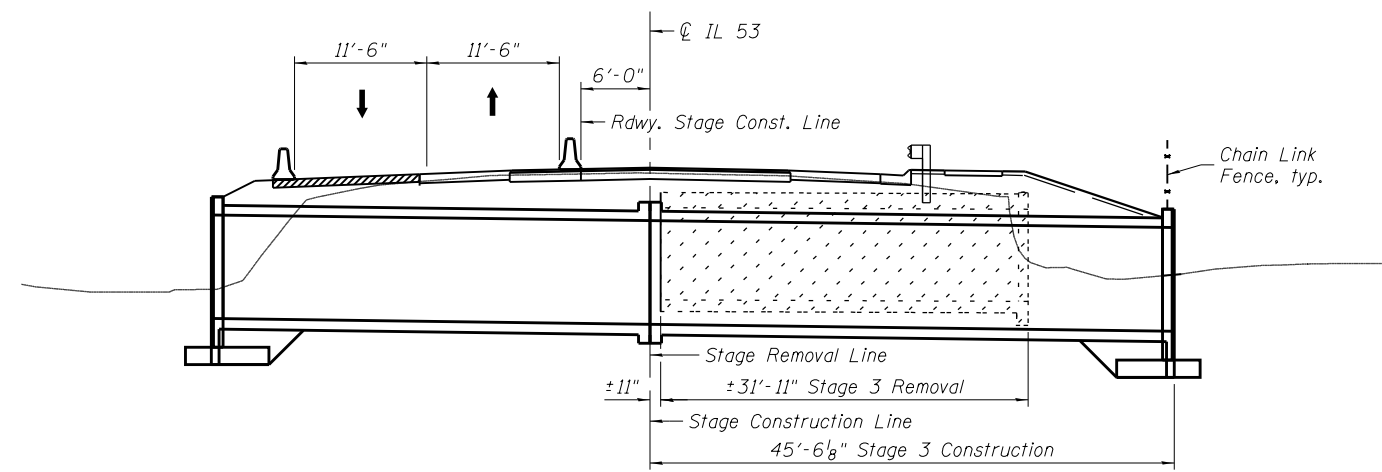
The limit of the porous granular embankment shall include a layer of at least 6 in. in thickness, below the elevation of the bottom of the box for the plan area of the box. The porous granular embankment shall extend at least 2 ft beyond each side of the box and extend up to the top surface of the box. See Roadway plans for additional Porous Granular Embankment limit (Roadway Item).



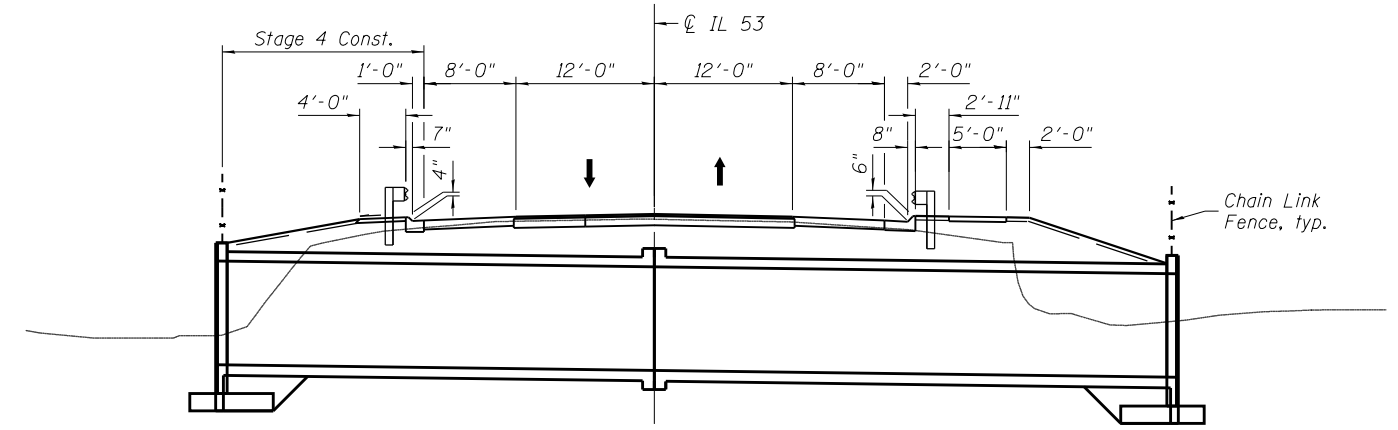
STAGE 1 CONSTRUCTION



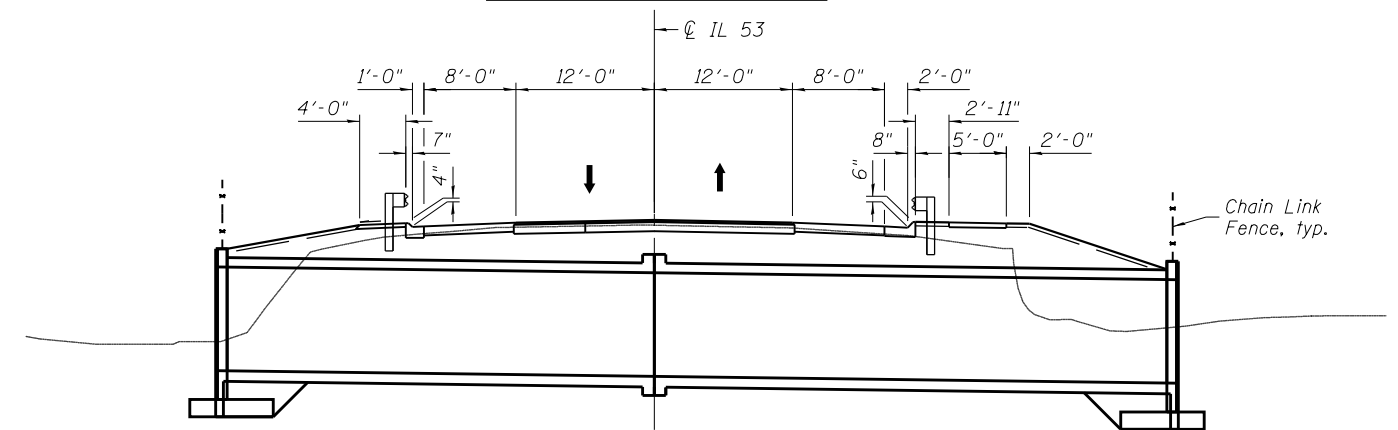
STAGE 2 CONSTRUCTION



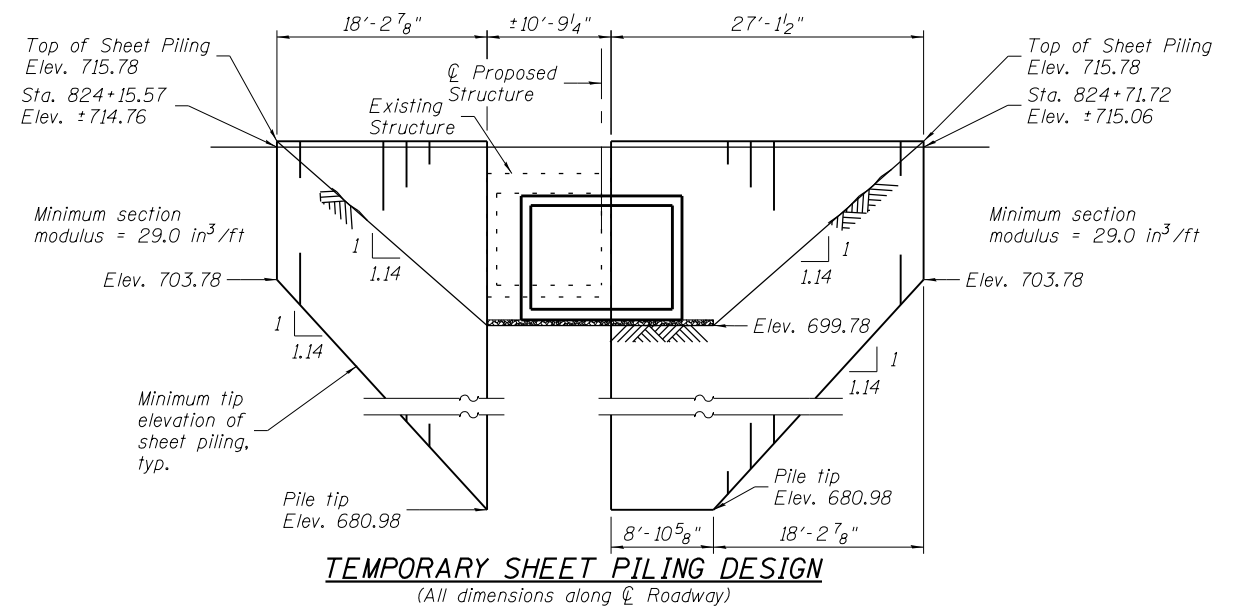
STAGE 3 CONSTRUCTION



STAGE 4 CONSTRUCTION



FINAL CONSTRUCTION



TEMPORARY SHEET PILING DESIGN
(All dimensions along \varnothing Roadway)

NOTES:

Sections shown are at Rt. L's to \varnothing IL 53.

PRINT DATE: 9/8/2015 11:52:18 AM Y:\13015_WO\Gen Crest Creek\DCN\Bridg\Final\Plot\sheet1\0220542-D160V29-002-Stage.dgn

EFK•Moen, LLC
Civil Engineering Design
303 Fountains Parkway, Suite 240
Fairview Heights, IL 62208
Phone 618-206-4250

USER NAME = ja	DESIGNED - CTW	REVISED -
PLOT SCALE = 1/2" = 1'	CHECKED - CDL	REVISED -
PLOT DATE = 9/8/2015	DRAWN - JA	REVISED -
	DATE - 9/8/2015	REVISED -

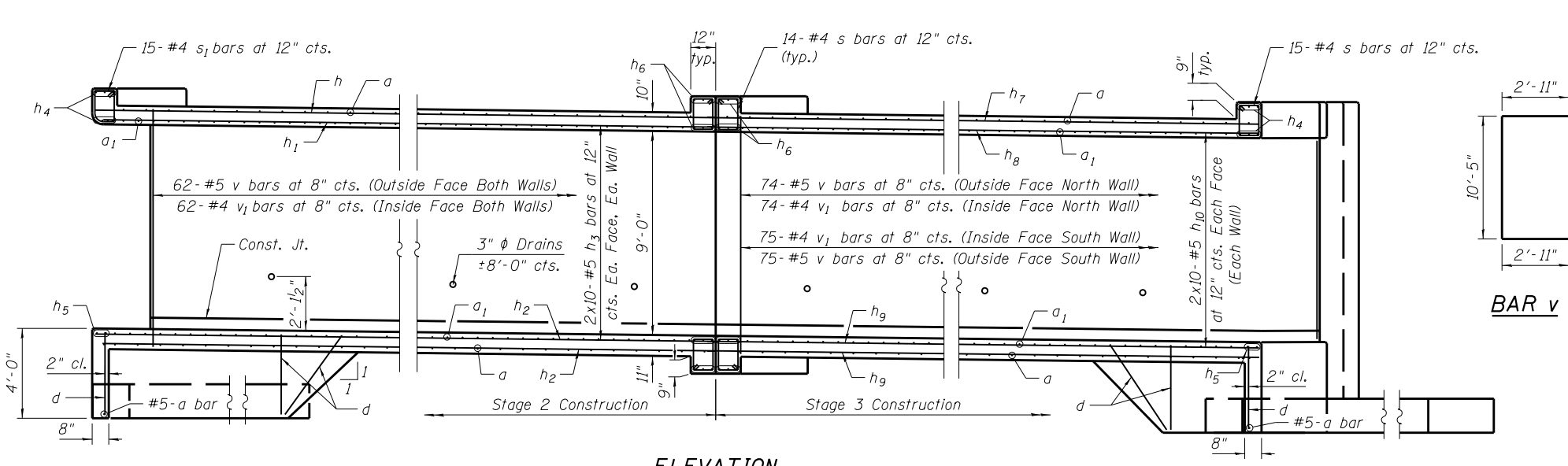
STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

STAGE CONSTRUCTION
S.N. 022-0542 (11'x9' BOX CULVERT) - STA 824 + 43.29

SHEET NO. 2 OF 10 SHEETS

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
870	534X-B	DUPAGE	66	38
CONTRACT NO. 60V29				
ILLINOIS FED. AID PROJECT				

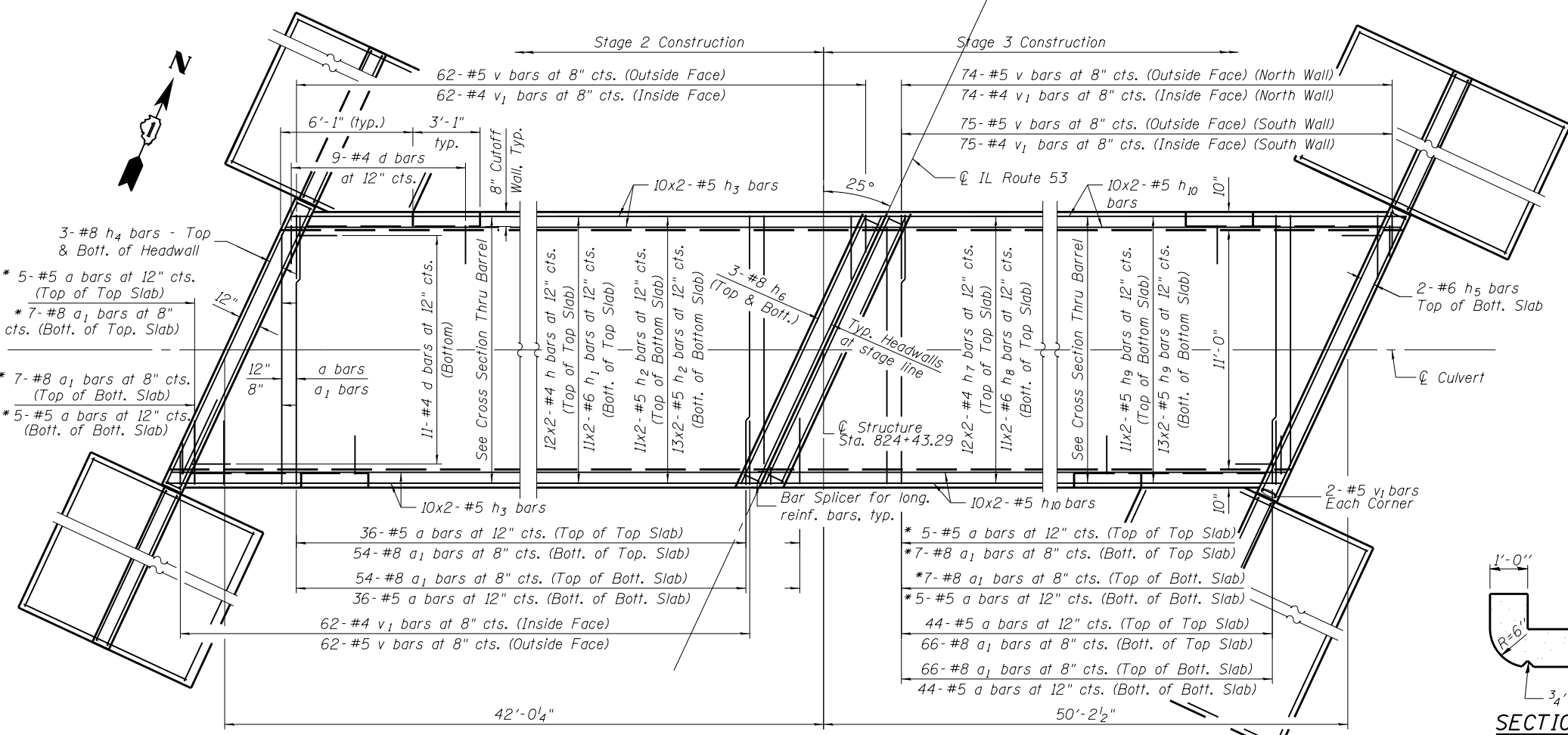
PRINT DATE: 8/5/2015 9:54:19 AM Y:\3015.W0\Ilien Crest Creek\Bridg\Final\Plotsheets\0220542-D160V29-003-Details.dgn



ELEVATION
(Looking North)
(Dimensions shown are at right angle to \perp Roadway unless noted)

MINIMUM BAR LAP

#4	= 1'-9"
#5	= 2'-2"
#5 (Top)	= 3'-0"
#6	= 2'-7"

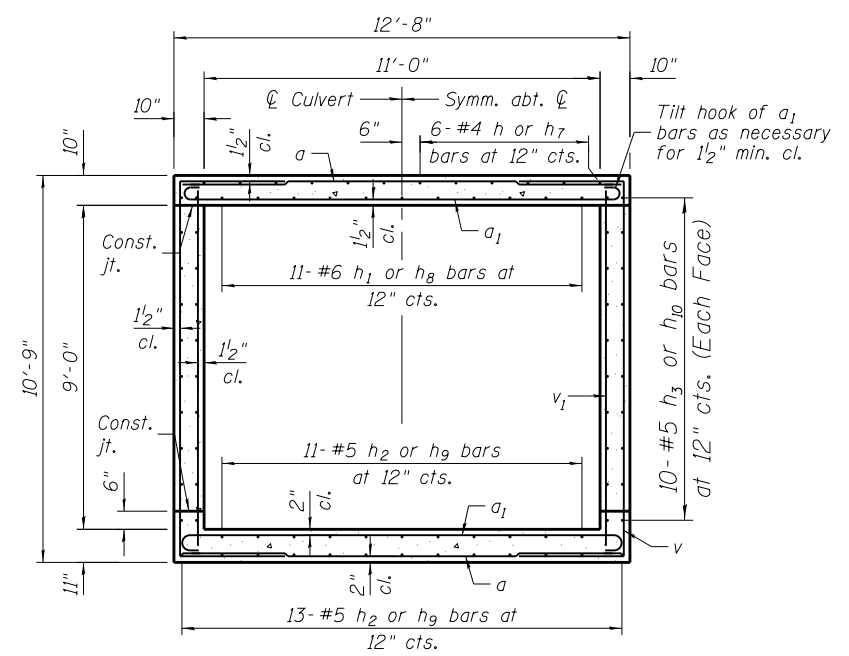


PLAN

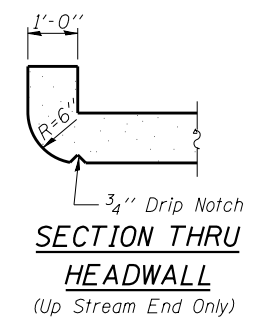
* a and a₁ bars in skew portion of slab shall be ordered full length & cut to fit. Balance of bar to be used in opposite end of culvert. (Each Stage)

BILL OF MATERIAL

Bar	No.	Size	Length	Shape
a	182	#5	12'-5"	—
a ₁	268	#8	14'-3"	⊂
d	58	#4	5'-6"	└
h	24	#4	21'-10"	—
h ₁	22	#6	22'-3"	—
h ₂	48	#5	22'-0"	—
h ₃	80	#5	22'-5"	—
h ₄	12	#8	14'-2"	—
h ₅	4	#6	14'-2"	—
h ₆	24	#8	13'-7"	—
h ₇	24	#4	25'-11"	—
h ₈	22	#6	26'-4"	—
h ₉	48	#5	26'-2"	—
h ₁₀	80	#5	26'-7"	—
v	273	#5	16'-3"	—
v ₁	281	#4	10'-5"	—
s	71	#4	4'-11"	⊂
s ₁	15	#4	4'-9"	⊂
Reinforcement Bars				Pound 29,910
Bar Splicers				Each 87
Concrete Box Culverts				Cu. Yd. 129.0



SECTION THRU BARREL

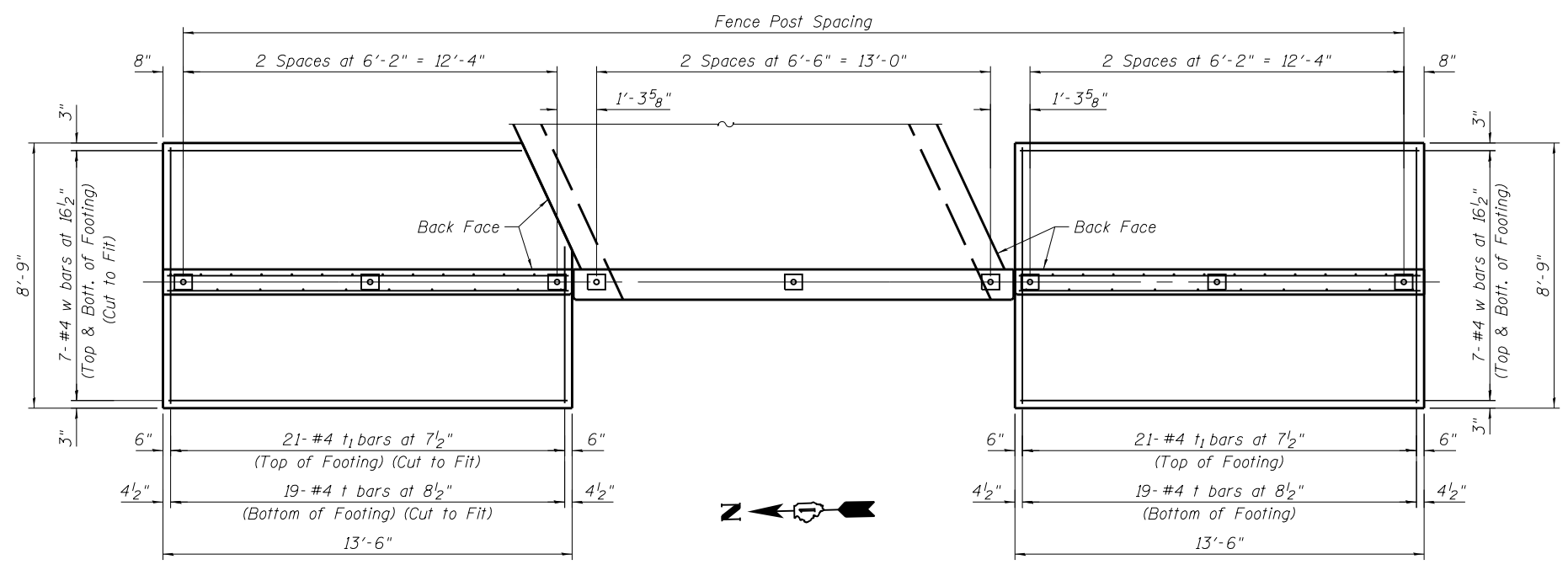


SECTION THRU HEADWALL
(Up Stream End Only)

NOTES

Backfill shall be placed in equal layers behind each sidewall. At no time shall the fill behind one sidewall be more than 2 feet higher than the opposite wall. See Sheets 4 and 5 of 10 for dimensions, details and reinforcing of wingwalls. See Sheet 8 of 10 for Bar Splicer details.

PRINT DATE: 8/5/2015 9:54:20 AM Y:\13015_W01Glen Crest Creek\DCN\Brdge\Final\Plotsheets\0220542-D160V29-004-inlet Walls.dgn

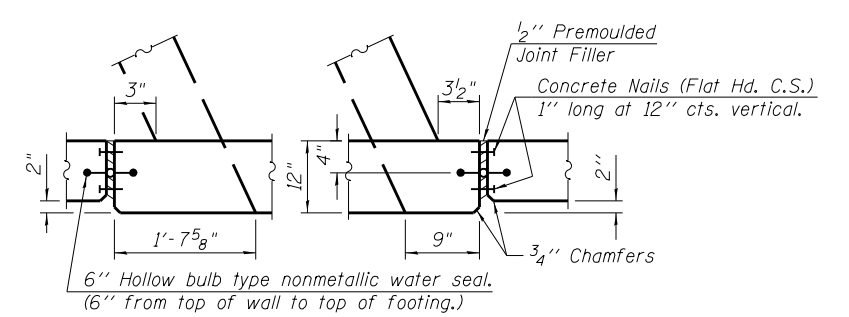


PLAN NW WINGWALL

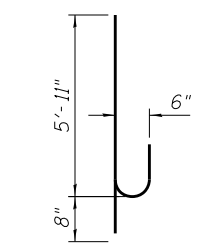
PLAN SW WINGWALL

MINIMUM BAR LAP

#4 = 1'-9"



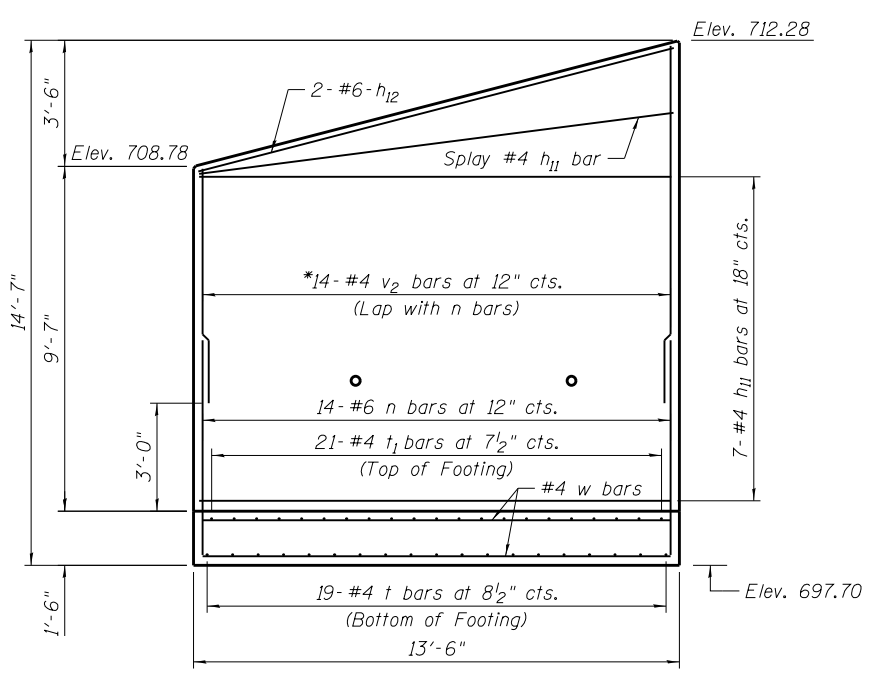
CORNER DETAIL



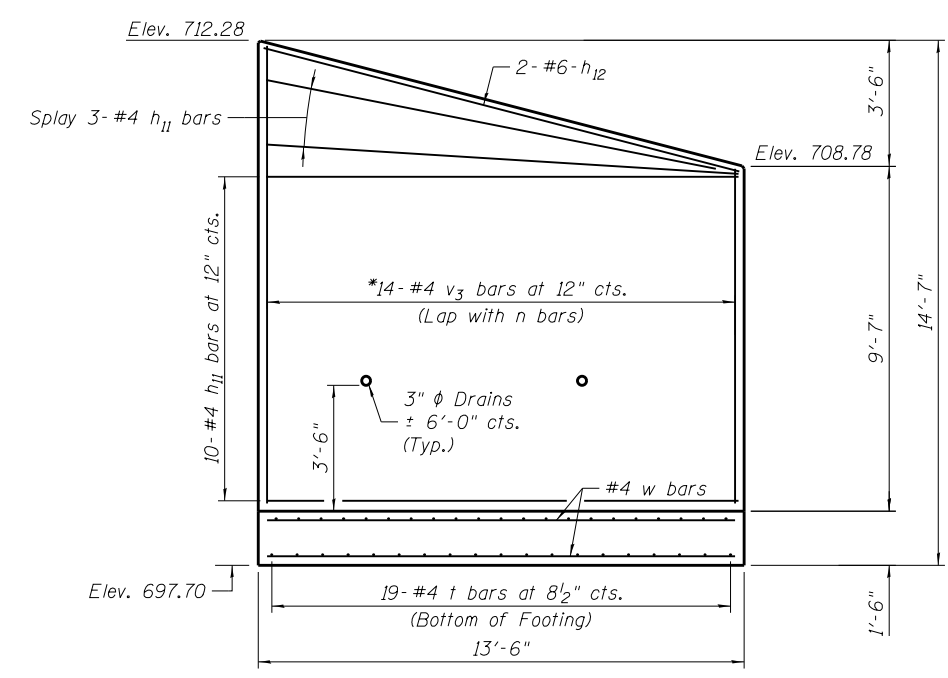
BAR n

BILL OF MATERIAL

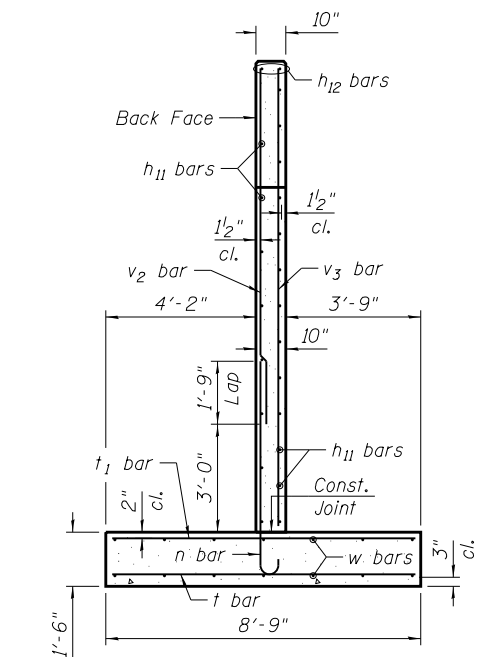
Bar	No.	Size	Length	Shape	
h ₁₁	42	#4	13'-2"	—	
h ₁₂	4	#6	13'-7"	—	
n	28	#6	6'-7"	—	
t	38	#4	8'-3"	—	
t ₁	42	#4	8'-3"	—	
v ₂	14	#4	16'-5"	—	
v ₃	10	#4	22'-0"	—	
w	28	#4	13'-0"	—	
Concrete Box Culverts				Cu. Yd.	22.4
Reinforcement Bars				Pound	1,710



ELEVATION NW WINGWALL
(Showing Typ. Back Face Reinforcement)



ELEVATION SW WINGWALL
(Showing Typ. Front Face Reinforcement)



SECTION

NOTES

See Sheet 6 of 10 for Chain Link Fence details.

EFK•Moen, LLC
Civil Engineering Design
303 Fountains Parkway, Suite 240
Fairview Heights, IL 62208
Phone 618-206-4250

USER NAME = ja	DESIGNED - CTW	REVISED -
PLLOT SCALE = 0.2" = 1' / in.	CHECKED - CDL	REVISED -
PLLOT DATE = 8/5/2015	DRAWN - JA	REVISED -
	DATE - 8/5/2015	REVISED -

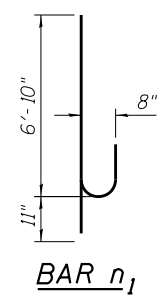
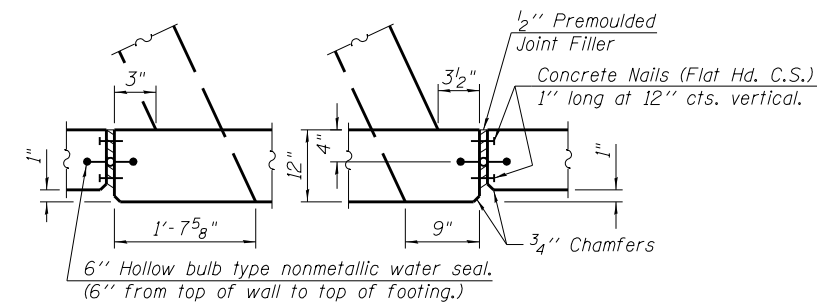
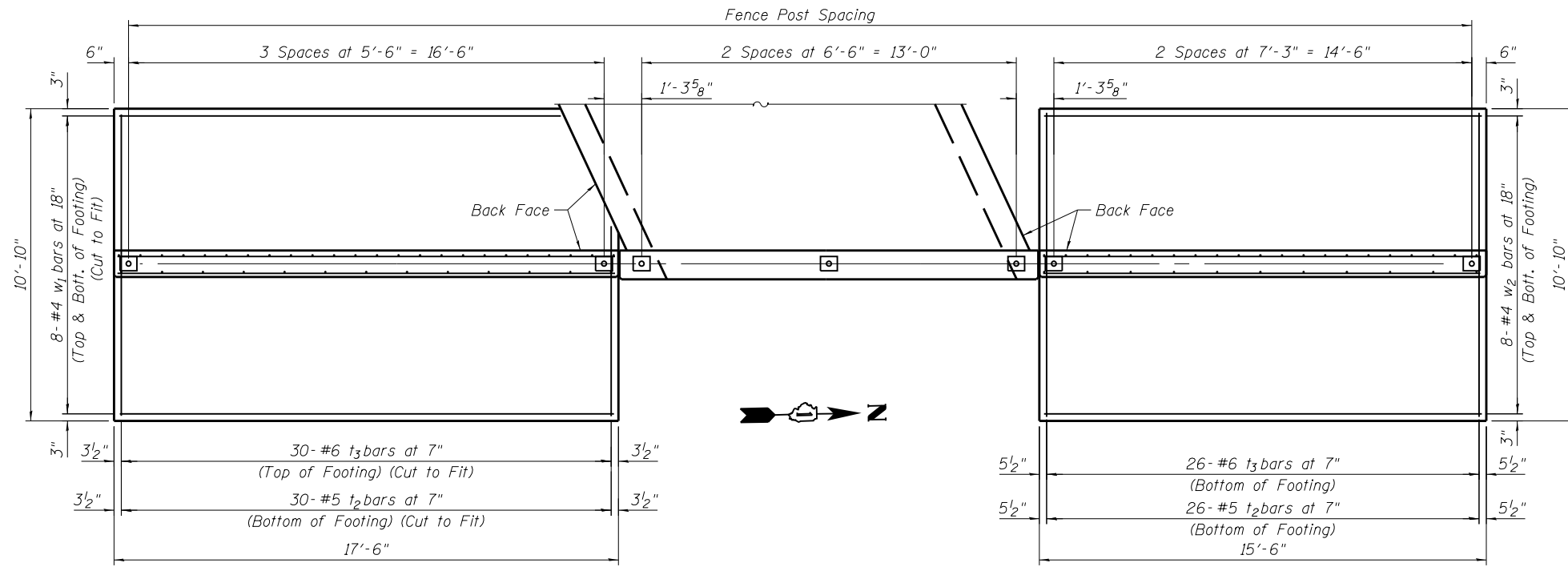
STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

WINGWALL DETAILS
S.N. 022-0542 (11'x9' BOX CULVERT) - STA 824+43.29

SHEET NO. 4 OF 10 SHEETS

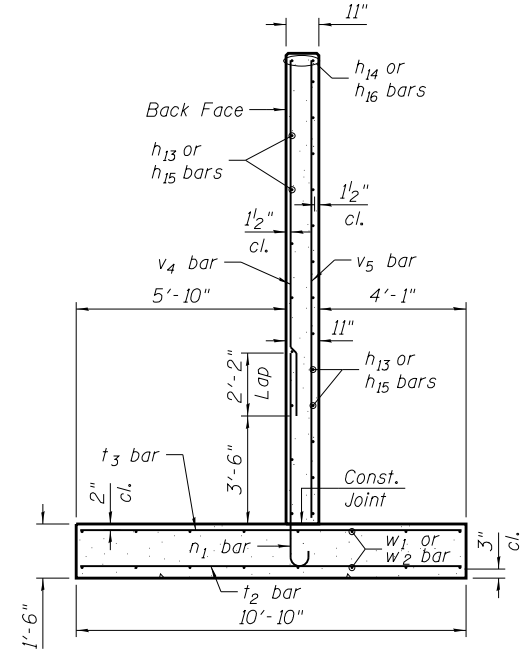
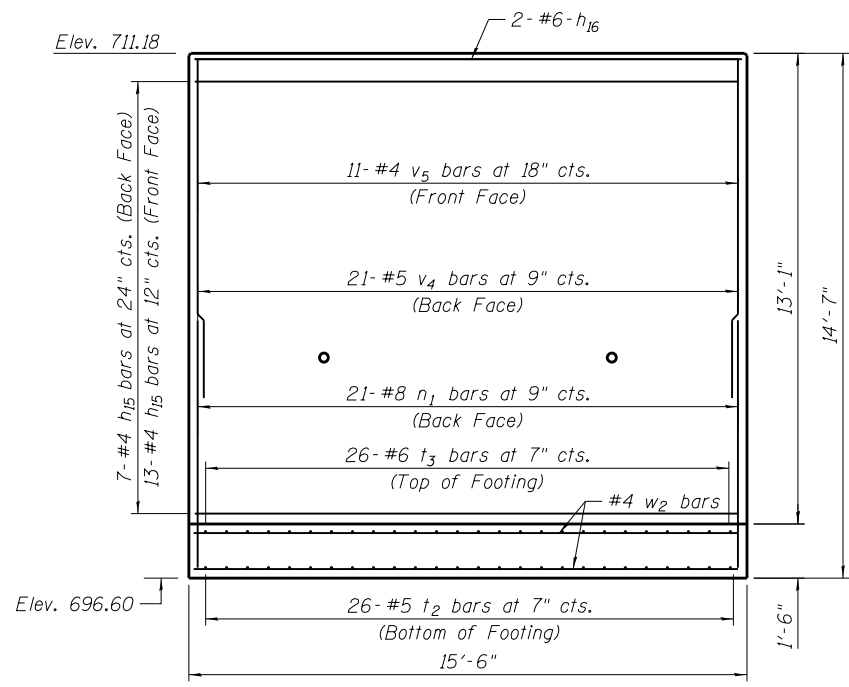
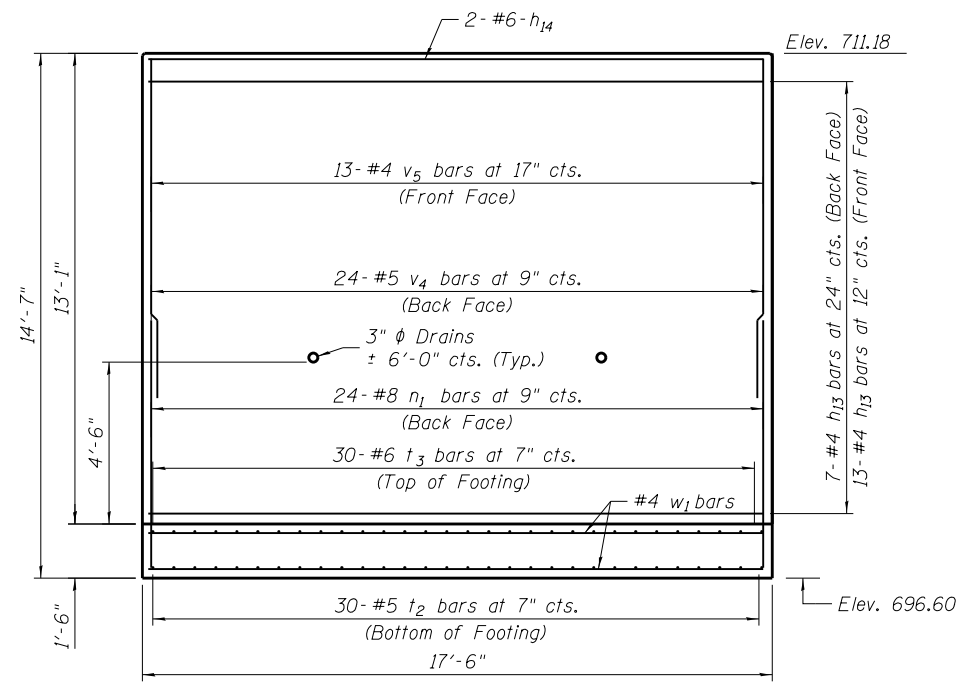
F.A.P. R.E.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
870	534X-B	DUPAGE	66	40
CONTRACT NO. 60V29				
ILLINOIS FED. AID PROJECT				

PRINT DATE: 8/5/2015 9:54:21AM Y:\3015_WO\Gen Crest Creek\DN\Bldge\Final\Plotsheets\0220542-D160V29-005-Outlet Walls.dgn



BILL OF MATERIAL

Bar	No.	Size	Length	Shape	
h ₁₃	20	#4	17'-2"	—	
h ₁₄	2	#6	17'-2"	—	
h ₁₅	20	#4	15'-2"	—	
h ₁₆	2	#6	15'-2"	—	
n ₁	45	#8	7'-9"	—	
t ₂	56	#5	10'-6"	—	
t ₃	56	#6	10'-6"	—	
v ₄	45	#5	9'-5"	—	
v ₅	24	#4	12'-9"	—	
w ₁	16	#4	17'-0"	—	
w ₂	16	#4	15'-0"	—	
Concrete Box Culverts				Cu. Yd.	34.3
Reinforcement Bars				Pound	3,720



NOTES
See Sheet 6 of 10 for Chain Link Fence details.

EFK•Moen, LLC
Civil Engineering Design
303 Fountains Parkway, Suite 240
Fairview Heights, IL 62208
Phone 618-206-4250

USER NAME = ja	DESIGNED - CTW	REVISED -
PLLOT SCALE = 0.2" = 1' - 0"	CHECKED - CDL	REVISED -
PLLOT DATE = 8/5/2015	DRAWN - JA	REVISED -
	DATE - 8/5/2015	REVISED -

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

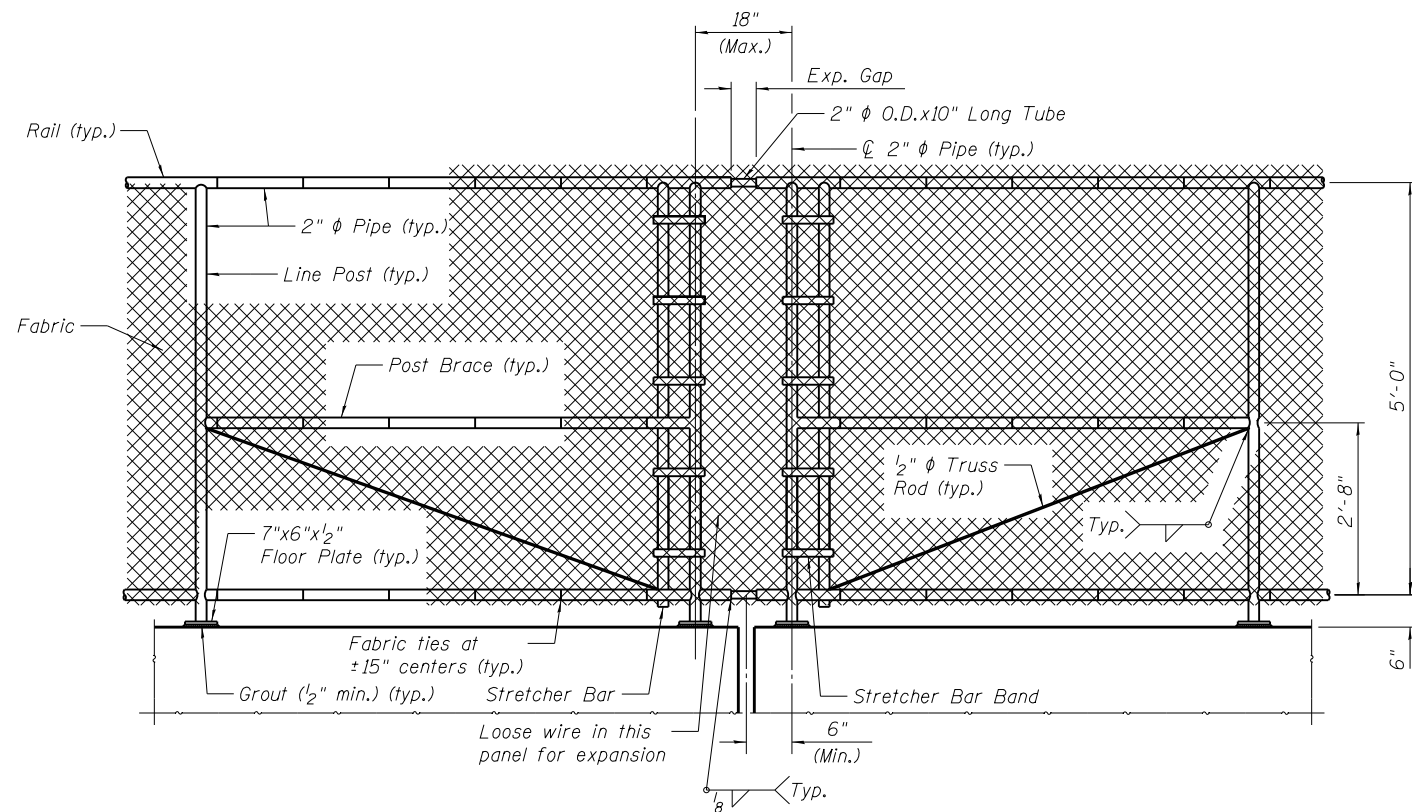
WINGWALL DETAILS
S.N. 022-0542 (11'x9' BOX CULVERT) - STA 824+43.29

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
870	534X-B	DUPAGE	66	41
CONTRACT NO. 60V29				

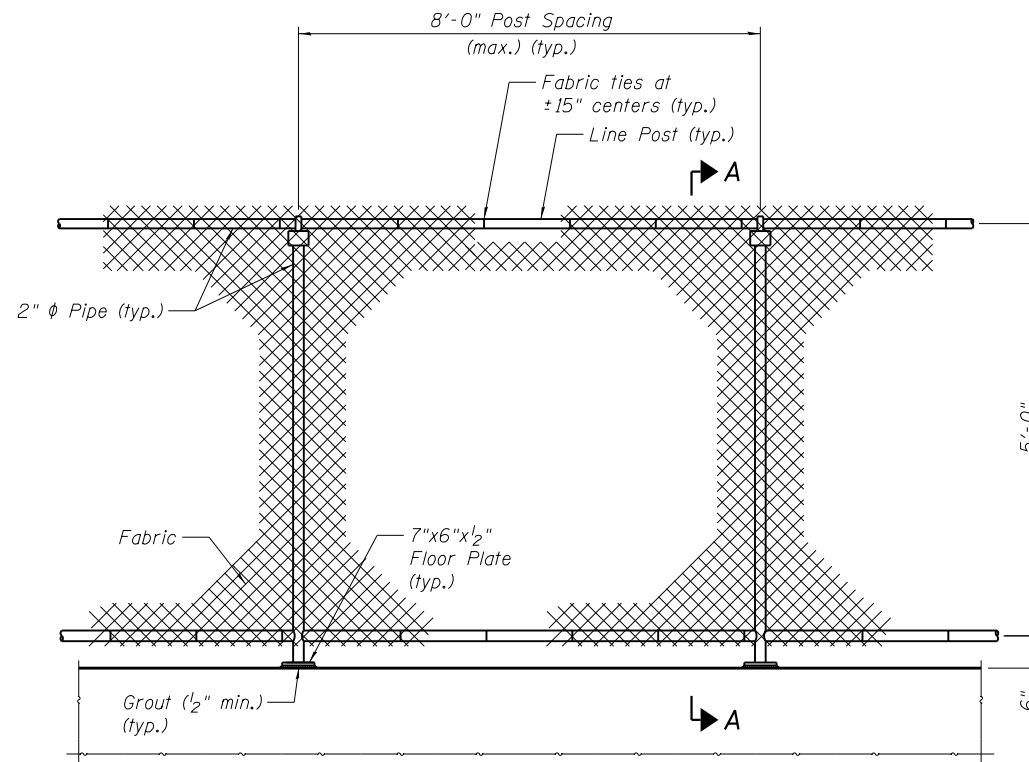
SHEET NO. 5 OF 10 SHEETS

ILLINOIS FED. AID PROJECT

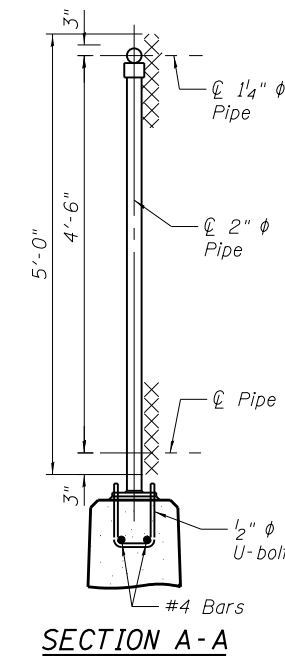
PRINT DATE: 8/5/2015 9:54:22 AM Y:\13015_W01\Gen Crest Creek\DCN\Bridg\Final\Plotsheets\0220542-D160V29-006-Fence.dgn



**DETAIL OF PEDESTRIAN FENCE
SHOWING EXPANSION DEVICE GAP**



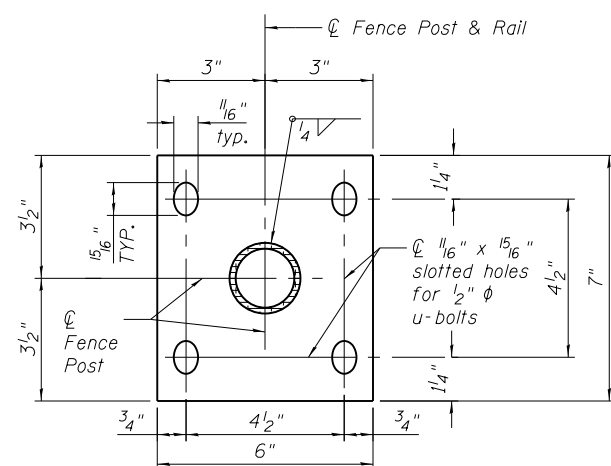
**TYPICAL SECTION
PEDESTRIAN CHAIN LINK FENCE**



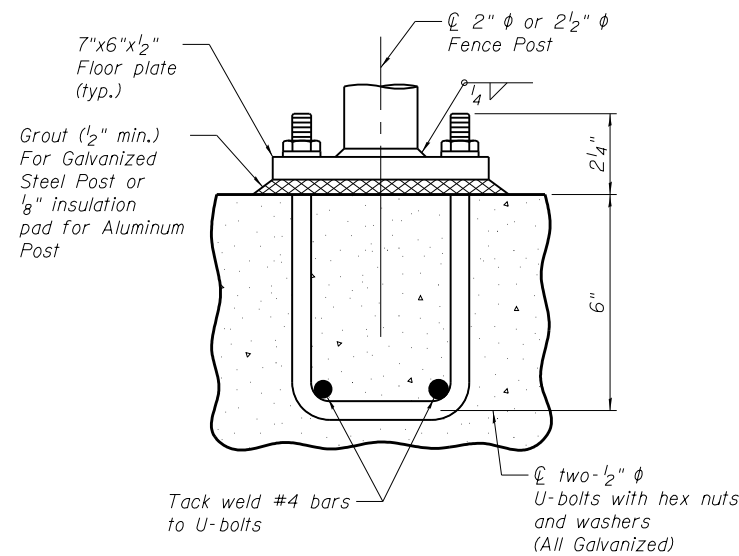
SECTION A-A

BILL OF MATERIAL

ITEM	UNIT	TOTAL
Chain Link Fence, 5 Ft. Attached to Structure	Foot	89



PLAN OF FLOOR PLATE



TYPICAL FENCE POST CONNECTION

NOTES

- See Sheets 4 and 5 of 10 for fence post locations.
- Chain Link Fence, 5 Ft. Attached to Structure shall be in accordance with Article 664 except all fabric shall have the top and bottom edges knuckled.
- All posts shall be vertical, Grout of 1/2" minimum thickness shall be placed under floor plates to provide for vertical alignment of posts.
- Payment for furnishing, galvanizing and erecting the fence and frame complete with U-bolts with nuts, washers and #4 bars will be considered completely covered by the contract unit price for Chain Link Fence, 5 Ft. Attached to Structure.
- Dimensions of Chain Link Fence, 5 Ft. Attached to Structure are measured horizontally.
- The maximum spacing allowed between pull posts and end posts is 100 ft. Post brace and 1/2" truss rod are required for panels adjacent to pull posts and end posts only.
- Connect the lower end of the 1/2" truss rod to the bottom of the pull posts and end posts to with the stretcher bar is attached.
- Chain Link Fence, 5 Ft. Attached to Structure will be measured to the nearest linear foot for each structure measured along the centerline of wingwall from end of wall to end of wall.
- Core wire size for wire fabric shall be 6 gage minimum.

EFK•Moen, LLC
Civil Engineering Design
303 Fountains Parkway, Suite 240
Fairview Heights, IL 62208
Phone 618-206-4250

USER NAME = ja	DESIGNED - CTW	REVISD -
PLOT SCALE = 1/8" = 1'-0"	CHECKED - CDL	REVISD -
PLOT DATE = 8/5/2015	DRAWN - JA	REVISD -
	DATE - 8/5/2015	REVISD -

**STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION**

**CHAIN LINK FENCE DETAILS
S.N. 022-0542 (11'x9' BOX CULVERT) - STA 824+43.29**

SHEET NO. 6 OF 10 SHEETS

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
870	534X-B	DUPAGE	66	42
			CONTRACT NO. 60V29	
ILLINOIS FED. AID PROJECT				

SHORING NOTES

This work shall consist of furnishing, installing and subsequent removal of the temporary shoring and temporary header beam according to the dimensions and details shown on the plans and according to the applicable portions of Section 512 of the Standard Specifications.

This work shall include furnishing, installing and subsequent removal of all miscellaneous steel shapes, plates and connecting hardware when required to attach the shoring to the existing structure. This work shall also include furnishing, installing and subsequent removal of all formwork, concrete, reinforcing steel and anchorage hardware required for the temporary header beam.

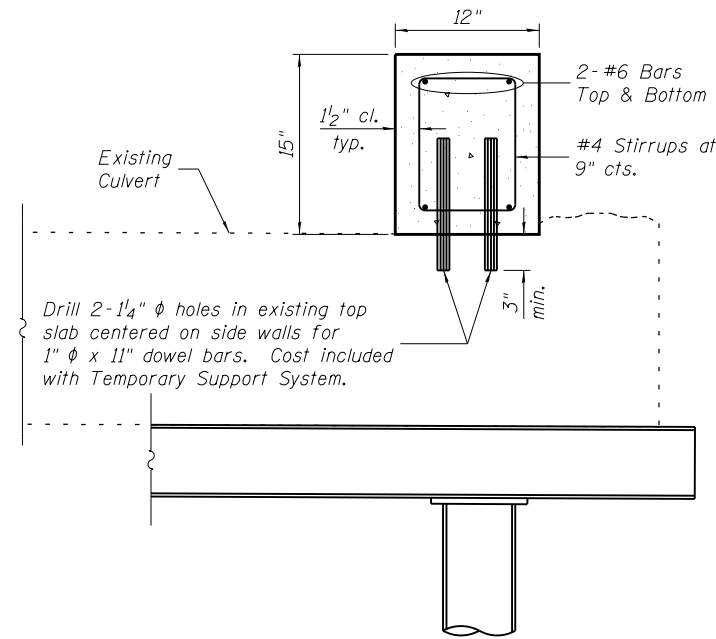
Temporary shoring minimum limits are shown in the plans. The contractor shall submit plans and details to the engineer for approval. The methods shown on the plans are for information only. The contractor may propose other means of supporting the construction/traffic staging provided they are done so at no extra cost to the department. The calculations shall be prepared and sealed by an Illinois Licensed Structural Engineer. This approval will not relieve the contractor of responsibility for the safety of the shoring.

Any disturbance or damage to existing structures, utilities or other property, caused by the contractors operation, shall be repaired by the contractor in a manner satisfactory to the Engineer at no additional cost to the Department. The contractor shall be responsible for determining the appropriate equipment necessary to install the contractors approved design. The shoring shall remain in place until removal of the existing structure.

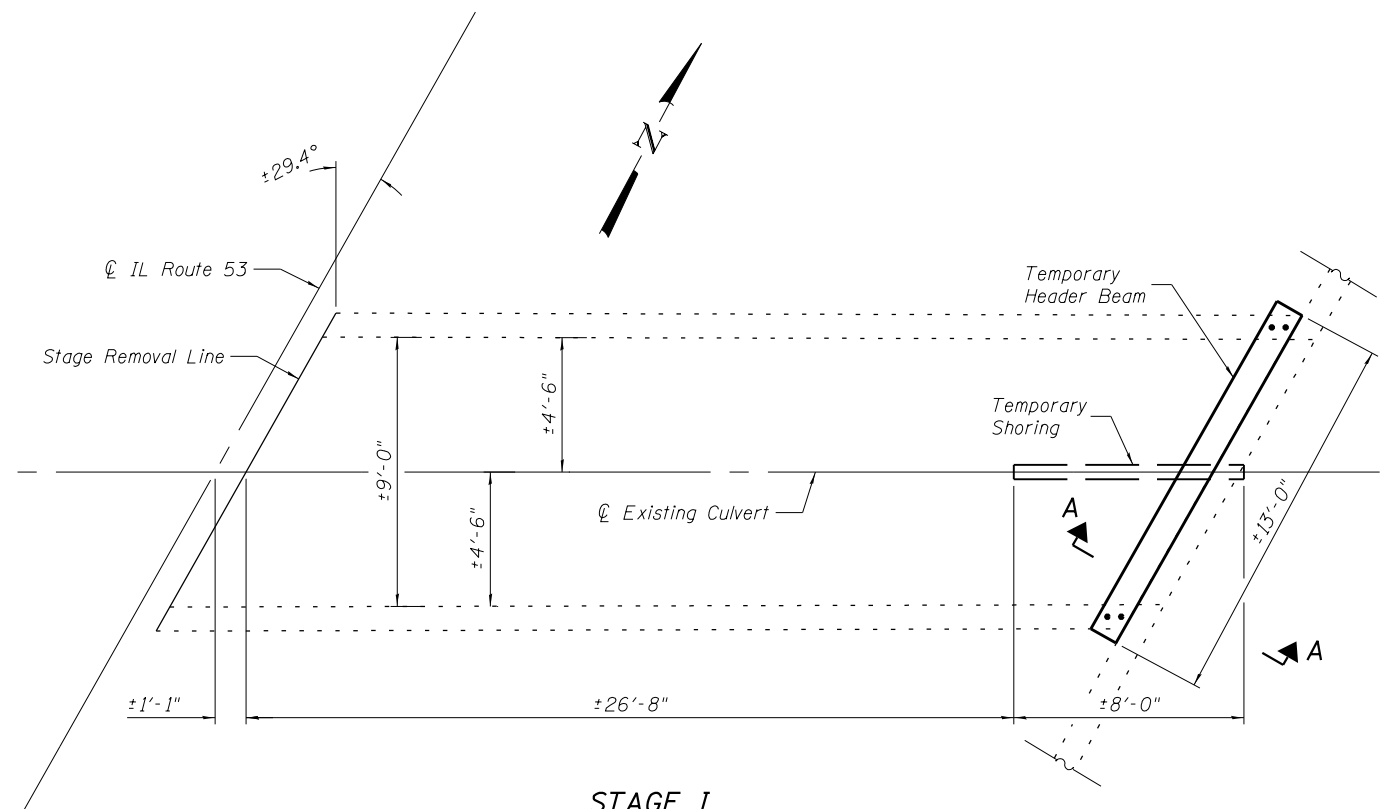
Cost of anchorage of Temporary Header Beam is included with Temporary Support System.

This work shall be paid for at the contract unit price per Each for Temporary Support System.

Cost of field drilling of existing culvert for new dowel bars installation is considered to be completely included with Temporary Support System.



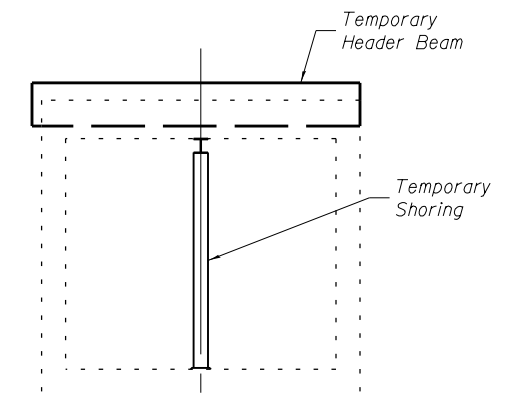
SECTION A-A



**STAGE I
SHORING LOCATION PLAN**

BILL OF MATERIAL

ITEM	UNIT	QUANTITY
Temporary Support System	Each	1



**SECTION THRU
EXISTING SECTION**

PRINT DATE: 8/5/2015 9:54:22 AM Y:\13015_W01Glen Crest Creek\DCN\Bridg\Final\Plotsheets\0220542-D160V29-007-Temp_Shore.dgn

EFK•Moen, LLC
Civil Engineering Design
303 Fountains Parkway, Suite 240
Fairview Heights, IL 62208
Phone 618-206-4250

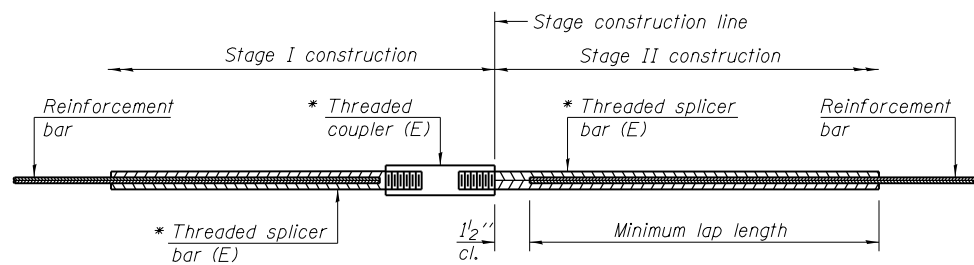
USER NAME = ja	DESIGNED - CTW	REVISED -
PLOT SCALE = 0.2' = 1"	CHECKED - CDL	REVISED -
PLOT DATE = 8/5/2015	DRAWN - JA	REVISED -
	DATE - 8/5/2015	REVISED -

**STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION**

**TEMPORARY SUPPORT DETAILS
S.N. 022-0542 (11'x9' BOX CULVERT) - STA 824+43.29**

SHEET NO. 7 OF 10 SHEETS

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
870	534X-B	DUPAGE	66	43
CONTRACT NO. 60V29				
ILLINOIS FED. AID PROJECT				



STANDARD BAR SPLICER ASSEMBLY

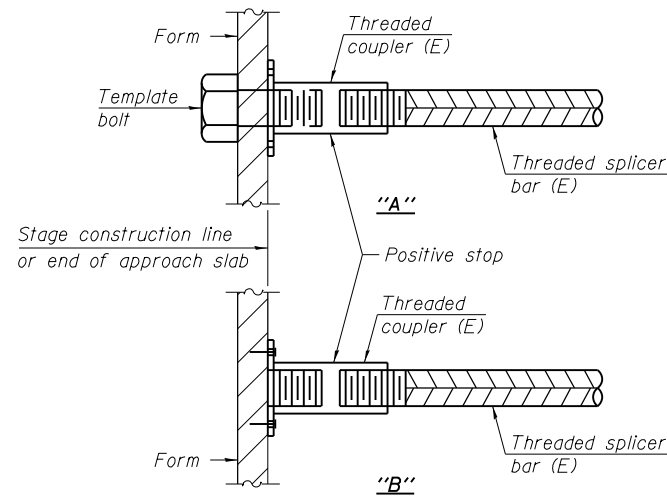
Minimum Lap Lengths						
Bar size to be spliced	Table 1	Table 2	Table 3	Table 4	Table 5	Table 6
3, 4	1'-5"	1'-11"	2'-1"	2'-4"	2'-7"	2'-11"
5	1'-9"	2'-5"	2'-7"	2'-11"	3'-3"	3'-8"
6	2'-1"	2'-11"	3'-1"	3'-6"	3'-10"	4'-5"
7	2'-9"	3'-10"	4'-2"	4'-8"	5'-2"	5'-10"
8	3'-8"	5'-1"	5'-5"	6'-2"	6'-9"	7'-8"
9	4'-7"	6'-5"	6'-10"	7'-9"	8'-7"	9'-8"

- Table 1: Black bar, 0.8 Class C
- Table 2: Black bar, Top bar lap, 0.8 Class C
- Table 3: Epoxy bar, 0.8 Class C
- Table 4: Epoxy bar, Top bar lap, 0.8 Class C
- Table 5: Epoxy bar, Class C
- Table 6: Epoxy bar, Top bar top, Class C

Threaded splicer bar length = min. lap length + 1 1/2" + thread length

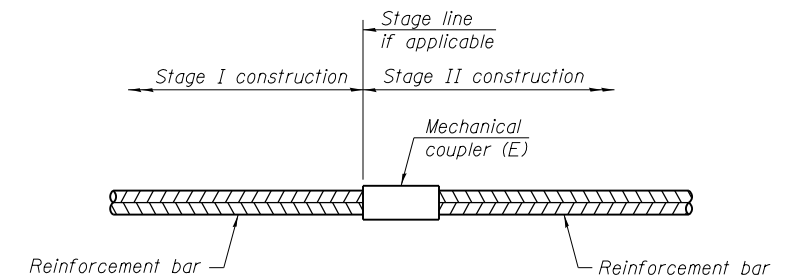
* Epoxy not required on Bar Splicer Assembly components used in conjunction with black bars.

Location	Bar size	No. assemblies required	Table for minimum lap length
Top of Top Slab	#4	12	
Bottom of Top Slab	#6	11	
Top of Bottom Slab	#5	11	
Bottom of Bottom Slab	#5	13	
North Wall	#5	20	
South Wall	#5	20	



INSTALLATION AND SETTING METHODS

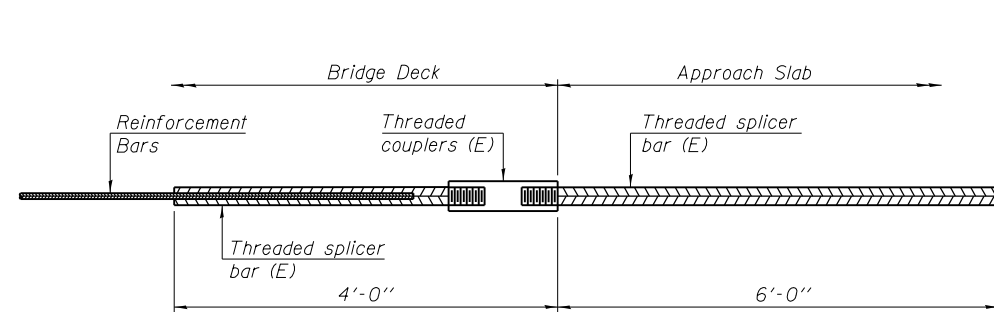
"A" : Set bar splicer assembly by means of a template bolt.
 "B" : Set bar splicer assembly by nailing to wood forms or cementing to steel forms.
 (E) : Indicates epoxy coating.



STANDARD MECHANICAL SPLICER

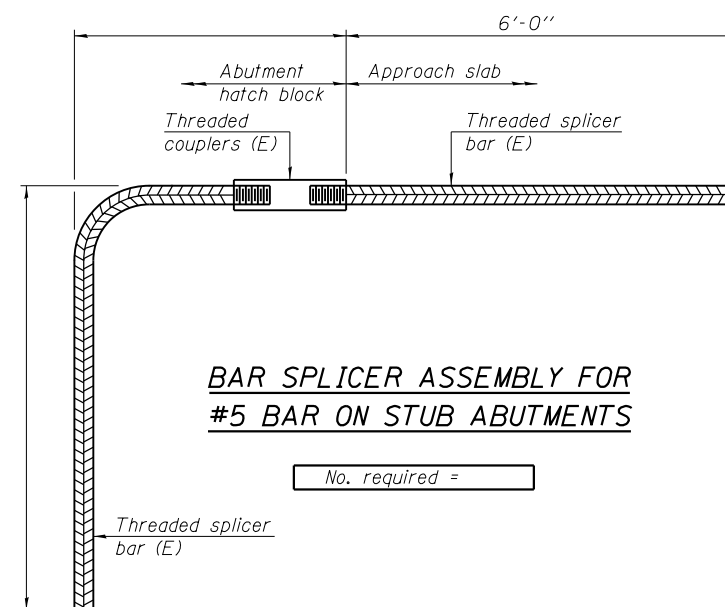
Location	Bar size	No. assemblies required

PRINT DATE: 8/5/2015 9:54:23 AM Y:\3015_W01Gien Crest Creek\DCN\Bridg\Final\Plotsheets\0220542-D160V29-008-Splacers.dgn



BAR SPLICER ASSEMBLY FOR #5 BAR ON INTEGRAL OR SEMI-INTEGRAL ABUTMENTS

No. required =



BAR SPLICER ASSEMBLY FOR #5 BAR ON STUB ABUTMENTS

No. required =

BILL OF MATERIAL

ITEM	UNIT	TOTAL
Bar Splicers	Each	87

NOTES

Splicer bars shall be deformed with threaded ends and have a minimum 60 ksi yield strength.
 All reinforcement shall be lapped and tied to the splicer bars.
 Bar splicer assemblies shall be epoxy coated according to the requirements for reinforcement bars. See Section 508 of the Standard Specifications.
 See approved list of bar splicer assemblies and mechanical splicers for alternatives.

BSD-1

1-27-12

EFK Moen, LLC
 Civil Engineering Design
 303 Fountains Parkway, Suite 240
 Fairview Heights, IL 62208
 Phone 618-206-4250

USER NAME = ja	DESIGNED - CTW	REVISED -
PLOT SCALE = 0.2" = 1' / in.	CHECKED - CDL	REVISED -
PLOT DATE = 8/5/2015	DRAWN - JA	REVISED -
	DATE - 8/5/2015	REVISED -

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

BAR SPLICER ASSEMBLY AND MECHANICAL SPLICER DETAILS
S.N. 022-0542 (11'x9' BOX CULVERT) - STA 824+43.29

SHEET NO. 8 OF 10 SHEETS

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
870	534X-B	DUPAGE	66	44
CONTRACT NO. 60V29				
ILLINOIS FED. AID PROJECT				

PRINT DATE: 8/5/2015 9:54:24 AM Y:\3015_W0 1Gen Crest Creek\DCN\Bridg\Final\Plotsheets\0220542-D160V29-009-Boring_Log.dgn

Geo Services, Inc.
Geotechnical, Environmental & Civil Engineering
805 Amherst Court, Suite 204
Naperville, Illinois 60565
(630) 355-2838

Various Phase II Projects,
Various Routes, Region I
District I

SOIL BORING LOG

GSI Job No. 12072

Page 1 of 2

Date 7/1/13

ROUTE _____ DESCRIPTION _____ LOGGED BY KD

SECTION D-91-278-12 LOCATION _____ SEC. _____ TWP. _____ RNG. _____

COUNTY Cook, Dupage DRILLING METHOD Hollow Stem Auger HAMMER TYPE CME Automatic

STRUCT. NO. 022-0542
Station _____

BORING NO. CB-01
Station 824+06.53
Offset 9.56ft Left
Ground Surface Elev. 714.23 ft

D E P T H S H 1 2 3	B L O W S S S B B P P	U C S Qu	M O I S T T
4			
4	2.4	18	
4	B		
2			
2	1.8	18	
-5	2	P	
1			
2	1.0	21	
3	B		
2			
2	0.5	37	
-10	2	B	
2			
3	1.0	31	
3	P		
6			
8	1.0	20	
-15	10	P	
3			
4	1.0	20	
6	P		
4			
6		8	
-20	4		

Surface Water Elev. n/a ft

Stream Bed Elev. n/a ft

Groundwater Elev.:
First Encounter 705.2 ft ▾
Upon Completion n/a ft ▾
After _____ Hrs. _____ ft ▾

DESCRIPTION	DEPTH (ft)	BLOW VALUE (/6")	UCS (tsf)	MOISTURE (%)
18.0" ASPHALT, 6.0" CONCRETE	0 - 18.0			
CLAY LOAM-gray-medium stiff to very stiff	18.0 - 712.23			
CLAY LOAM-brown & gray-stiff to very stiff (Fill)	712.23 - 704.73	3, 4, 4	2.4, B	18
ORGANIC SILTY CLAY-dark brown, gray & black-medium stiff	704.73 - 703.23	2, 2	0.5, B	37
SILTY CLAY-brown-stiff	703.23 - 701.23	2, 3, 3	1.0, P	31
SILTY CLAY LOAM-brown-stiff	701.23 - 698.73	6, 8, 10	1.0, P	20
CLAY LOAM-brown-stiff	698.73 - 696.23	3, 4, 6	1.0, P	20
CLAYEY SAND & GRAVEL-brown-medium dense	696.23 - 683.23	4, 6, 4		8

The Unconfined Compressive Strength (UCS) Failure Mode is indicated by (B-Bulge, S-Shear, P-Penetrometer)
The SPT (N value) is the sum of the last two blow values in each sampling zone (AASHTO T206)

BBS, form 137 (Rev. 8-99)

Geo Services, Inc.
Geotechnical, Environmental & Civil Engineering
805 Amherst Court, Suite 204
Naperville, Illinois 60565
(630) 355-2838

Various Phase II Projects,
Various Routes, Region I
District I

SOIL BORING LOG

GSI Job No. 12072

Page 2 of 2

Date 7/1/13

ROUTE _____ DESCRIPTION _____ LOGGED BY KD

SECTION D-91-278-12 LOCATION _____ SEC. _____ TWP. _____ RNG. _____

COUNTY Cook, Dupage DRILLING METHOD Hollow Stem Auger HAMMER TYPE CME Automatic

STRUCT. NO. 022-0542
Station _____

BORING NO. CB-01
Station 824+06.53
Offset 9.56ft Left
Ground Surface Elev. 714.23 ft

D E P T H S H 1 2 3	B L O W S S S B B P P	U C S Qu	M O I S T T
5			
6	0.8	14	
6	B		
7			
14	1.0	26	
-45	25	P	
9			
10		22	
17			
4			
4	1.3	16	
6	P		
4			
4			
4	0.9	15	
4	B		
4			
8	0.6	16	
-35	4	B	
3			
4	0.6	14	
6	B		
4			
6	0.9	14	
6	B		
-60	6		

Surface Water Elev. n/a ft

Stream Bed Elev. n/a ft

Groundwater Elev.:
First Encounter 705.2 ft ▾
Upon Completion n/a ft ▾
After _____ Hrs. _____ ft ▾

DESCRIPTION	DEPTH (ft)	BLOW VALUE (/6")	UCS (tsf)	MOISTURE (%)
CLAY LOAM-gray-medium stiff to very stiff (continued)	704.73 - 668.73	5, 6, 6	0.8, B	14
SILTY LOAM-gray-medium dense	668.73 - 666.23	9, 10, 17		22
SILTY CLAY-gray-stiff	666.23 - 664.23	4		
End Of Boring @ -50.0'. Boring backfilled with cuttings.	664.23 - 60	4, 6	1.3, P	16

The Unconfined Compressive Strength (UCS) Failure Mode is indicated by (B-Bulge, S-Shear, P-Penetrometer)
The SPT (N value) is the sum of the last two blow values in each sampling zone (AASHTO T206)

BBS, form 137 (Rev. 8-99)

EFK•Moen, LLC
Civil Engineering Design
303 Fountains Parkway, Suite 240
Fairview Heights, IL 62208
Phone 618-206-4250

USER NAME = ja	DESIGNED - CTW	REVISED -
CHECKED - CDL	REVISED -	
PLOT SCALE = 0.2" = 1' / in.	DRAWN - JA	REVISED -
PLOT DATE = 8/5/2015	DATE - 8/5/2015	REVISED -

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

BORING LOGS
S.N. 022-0542 (11'x9' BOX CULVERT) - STA 824+43.29

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
870	534X-B	DUPAGE	66	45
CONTRACT NO. 60V29				
ILLINOIS FED. AID PROJECT				

Geo Services, Inc.
 Geotechnical, Environmental & Civil Engineering
 805 Amherst Court, Suite 204
 Naperville, Illinois 60565
 (630) 355-2838

GSI Job No. 12072
 Page 1 of 1

SOIL BORING LOG

Various Phase II Projects, Various Routes, Region I District I
 ROUTE _____ DESCRIPTION _____ I District I LOGGED BY KD
 Date 7/1/13

SECTION D-91-278-12 LOCATION , SEC. , TWP. , RNG.

COUNTY Cook, Dupage DRILLING METHOD Hollow Stem Auger HAMMER TYPE CME Automatic

STRUCT. NO.	D E P T H S	B L O W S	U C S Qu	M O I S T %	Surface Water Elev.	D E P T H S	B L O W S	U C S Qu	M O I S T %
022-0542	(ft)	(/6")	(tsf)	(%)	n/a ft	(ft)	(/6")	(tsf)	(%)
Station					Stream Bed Elev. n/a ft				
BORING NO. CB-02					Groundwater Elev.:				
Station 824+75.54					First Encounter 704.4 ft				
Offset 10.56ft Left					Upon Completion n/a ft				
Ground Surface Elev. 714.37 ft					After Hrs. _____ ft				
9.5" ASPHALT, 10.0" CONCRETE					CLAY LOAM-brown & gray-stiff to very stiff (continued)				
							6		
CLAY LOAM-brown & gray-stiff to hard (Fill)	712.75	3	4.1	16		10	1.0	20	
		5	B			13	P		
		7							
		3				3			
		4	3.3	18		6	1.0	25	
		-5	B			-25	8	B	
		1				4			
		2	1.2	28		6	1.0	16	
		3	B			9	B		
		2				6			
		2	1.3	28		8	1.2	17	
SILTY CLAY-brown & gray-medium stiff to stiff	704.87	2	P			-30	10	B	
		2							
		1				4			
		1	0.5	28		6	1.5	14	
		2	B			8	P		
CLAY LOAM-brown & gray-stiff to very stiff	701.37	3				6			
		4	2.0	14		8	1.8	22	
		-15	B			-35	10	B	
becoming gray @ -15.5'		5				4			
		8	1.8	17		6	1.0	14	
		5	B			7	P		
		2				5			
		6	1.8	15	End Of Boring @ -40.0'. Boring backfilled with cuttings.	7	1.0	15	
		-20	B			-40	7	P	

The Unconfined Compressive Strength (UCS) Failure Mode is indicated by (B-Bulge, S-Shear, P-Penetrometer)
 The SPT (N value) is the sum of the last two blow values in each sampling zone (AASHTO T206)

BBS, form 137 (Rev. 8-99)

Geo Services, Inc.
 Geotechnical, Environmental & Civil Engineering
 805 Amherst Court, Suite 204
 Naperville, Illinois 60565
 (630) 355-2838

GSI Job No. 12072
 Page 1 of 1

SOIL BORING LOG

Various Phase II Projects, Various Routes, Region I District I
 ROUTE _____ DESCRIPTION _____ I District I LOGGED BY KD
 Date 7/2/13

SECTION D-91-278-12 LOCATION , SEC. , TWP. , RNG.

COUNTY Cook, Dupage DRILLING METHOD Hollow Stem Auger HAMMER TYPE CME Automatic

STRUCT. NO.	D E P T H S	B L O W S	U C S Qu	M O I S T %	Surface Water Elev.	D E P T H S	B L O W S	U C S Qu	M O I S T %
022-0542	(ft)	(/6")	(tsf)	(%)	n/a ft	(ft)	(/6")	(tsf)	(%)
Station					Stream Bed Elev. n/a ft				
BORING NO. CB-03					Groundwater Elev.:				
Station 824+98.15					First Encounter 704.3 ft				
Offset 18.98ft Right					Upon Completion n/a ft				
Ground Surface Elev. 714.31 ft					After Hrs. _____ ft				
14.0" ASPHALT					SILTY LOAM-gray-medium dense (continued)				
					CLAY LOAM-gray-stiff to very stiff				
							6		
CLAY LOAM-dark brown & gray-stiff to very stiff (Fill)	713.15	3	3.2	20		8	2.0	16	
		3	B			9	B		
		4							
		2				5			
		2	1.8	21		6	1.0	16	
		-5	B			-25	8	B	
		3				4			
		4	1.7	19		10	1.6	15	
		6	B			8	B		
		3				4			
		4	1.0	33		7	2.7	14	
TOPSOIL-black	705.81	3	P			4			
		4				7	2.7	14	
		6	1.0	33		10	B		
		4				9			
		5	1.4	19		9	1.6	15	
		7	B			11	B		
		4				3			
		5				8	1.1	14	
		-15	B			-35	9	B	
		6				6			
		9	2.9	17		8	2.9	17	
		14	B			10	B		
		4				4			
		6	1.5	15	End Of Boring @ -40.0'. Boring backfilled with cuttings.	6	1.5	15	
		-20	P			-40	7	P	

The Unconfined Compressive Strength (UCS) Failure Mode is indicated by (B-Bulge, S-Shear, P-Penetrometer)
 The SPT (N value) is the sum of the last two blow values in each sampling zone (AASHTO T206)

BBS, form 137 (Rev. 8-99)

PRINT DATE: 8/5/2015 9:54:24 AM Y:\3015_WO 1Gen Crest Creek\DCN\Bridg\Final\Plotsheets\0220542-D160V29-010-Boring Log 2.dgn

EFK Moen, LLC
 Civil Engineering Design
 303 Fountains Parkway, Suite 240
 Fairview Heights, IL 62208
 Phone 618-206-4250

USER NAME = ja	DESIGNED - CTW	REVISED -
	CHECKED - CDL	REVISED -
PLOT SCALE = 0:2' = 1"	DRAWN - JA	REVISED -
PLOT DATE = 8/5/2015	DATE - 8/5/2015	REVISED -

STATE OF ILLINOIS
 DEPARTMENT OF TRANSPORTATION

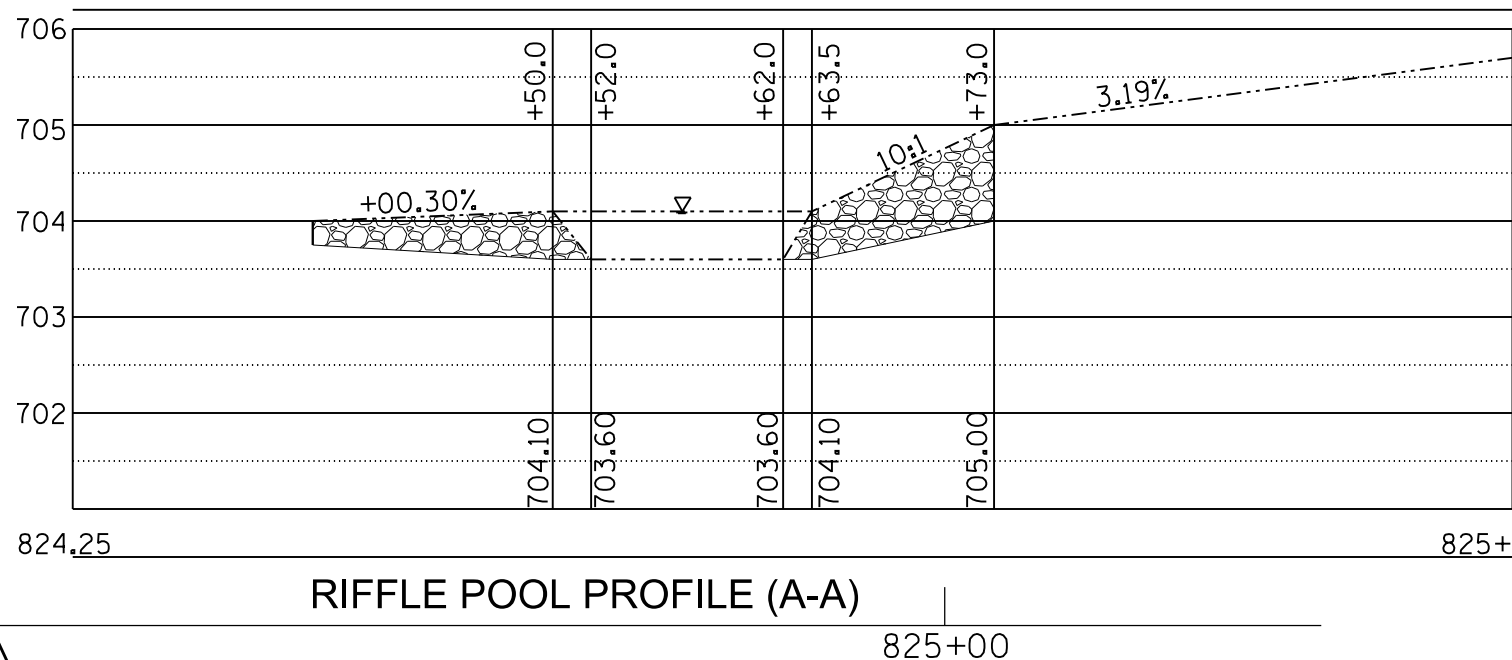
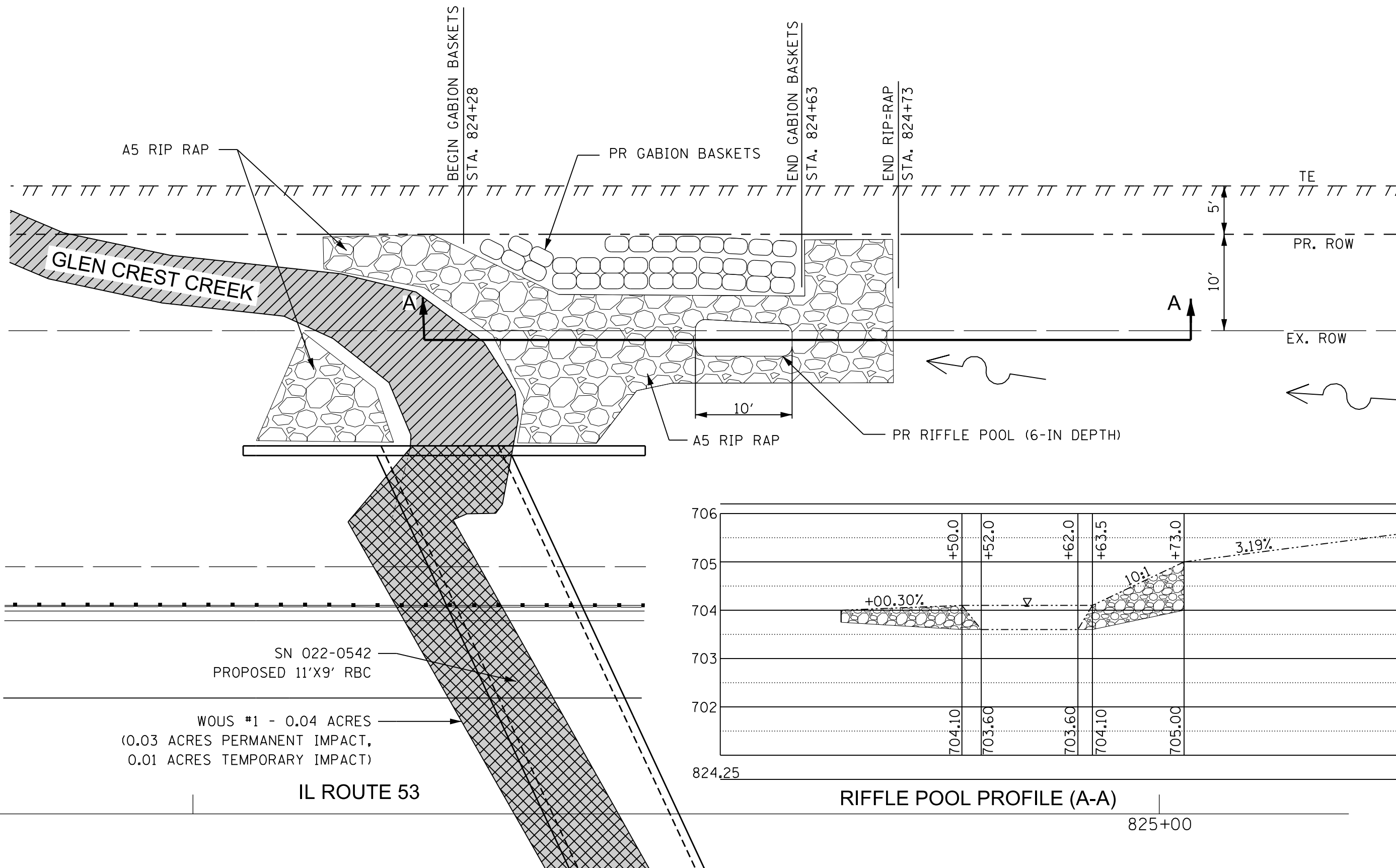
BORING LOGS
 S.N. 022-0542 (11'x9' BOX CULVERT) - STA 824 + 43.29

SHEET NO. 10 OF 10 SHEETS

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
870	534X-B	DUPAGE	66	46
CONTRACT NO. 60V29				
ILLINOIS FED. AID PROJECT				

WATERS OF THE U.S. LEGEND:

WATERS OF THE U.S.
 PERMANENT IMPACT AREA
 TEMPORARY IMPACT AREA



SN 022-0542
 PROPOSED 11'X9' RBC

 WOUS #1 - 0.04 ACRES
 (0.03 ACRES PERMANENT IMPACT,
 0.01 ACRES TEMPORARY IMPACT)

IL ROUTE 53

RIFFLE POOL PROFILE (A-A)

EFK•Moen, LLC
Civil Engineering Design

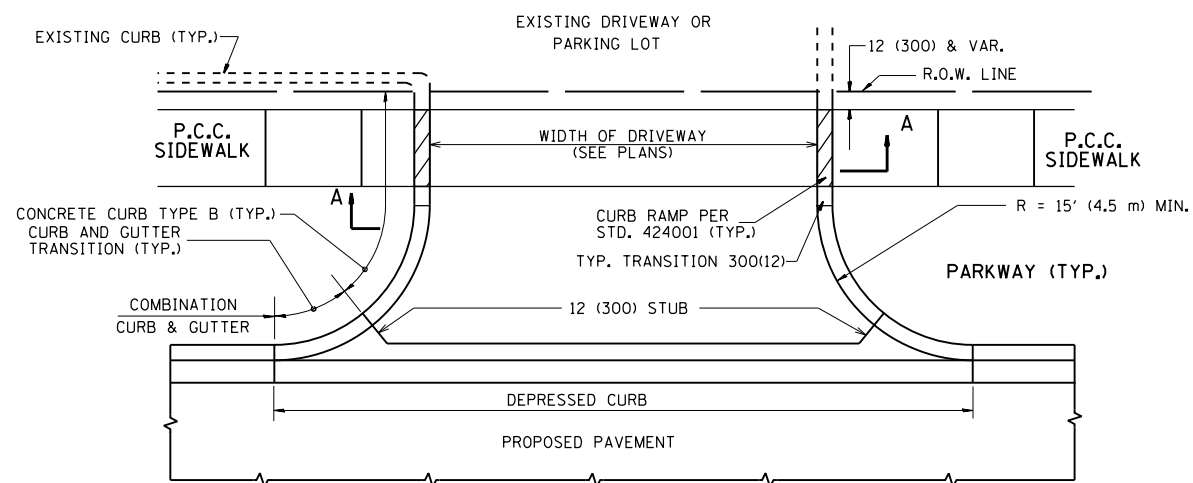
FILE NAME =	USER NAME = jd	DESIGNED -	REVISED -
Y:\13015 WO 1 Glen Crest Creek\Design\PreIm\PlotSheets\160V29-047-outfall-stabilization\detail.dgn	DB	DRAWN -	REVISED -
PLOT SCALE = 10.0000' / in.	CHECKED - SLD	REVISED -	REVISED -
PLOT DATE = 8/6/2015	DATE - 8/6/2015	REVISED -	REVISED -

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

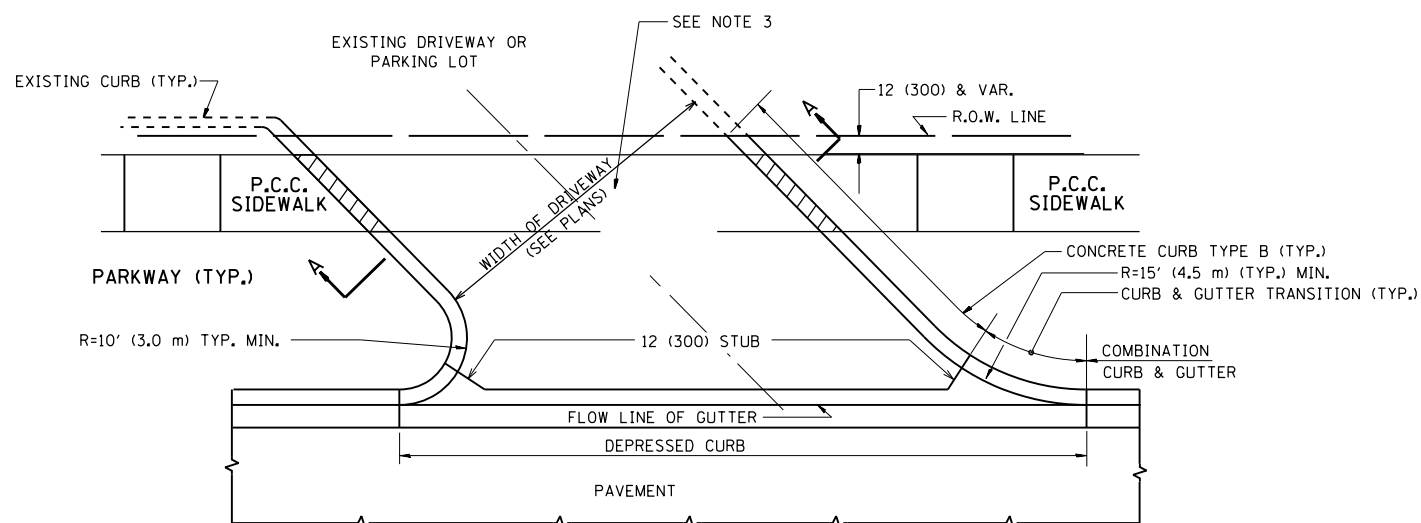
OUTFALL STABILIZATION SHEET

SCALE: N.T.S. SHEET 1 OF 1 SHEETS STA. TO STA.

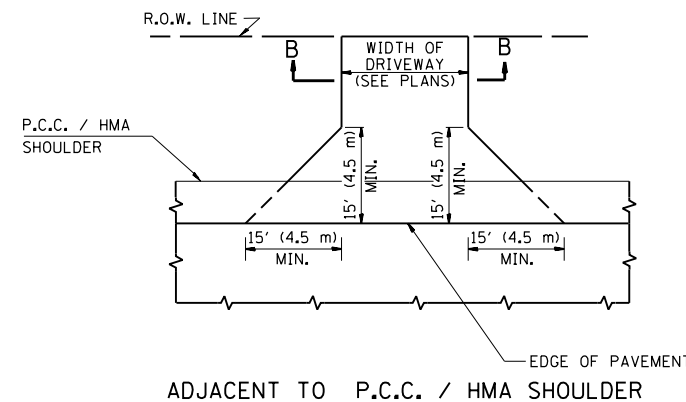
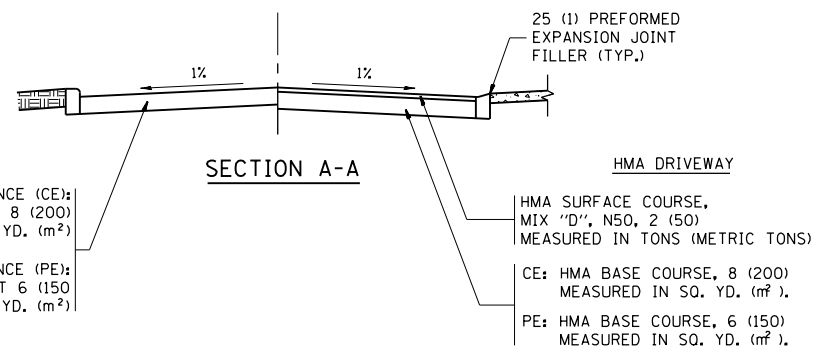
F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
870	534X-B	DUPAGE	66	47
CONTRACT NO. 60V29			ILLINOIS FED. AID PROJECT	



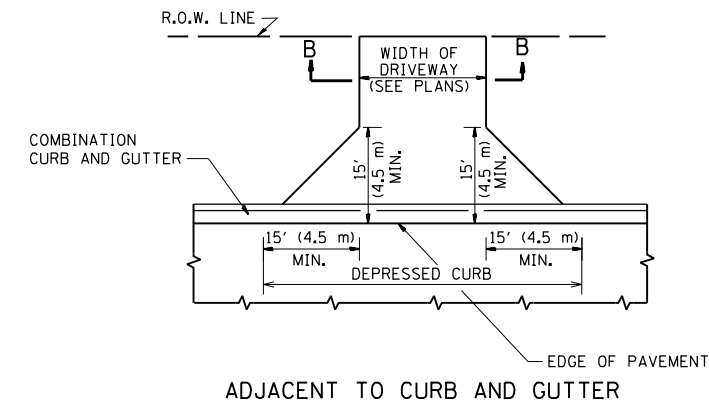
WITH CONCRETE CURB, TYPE B



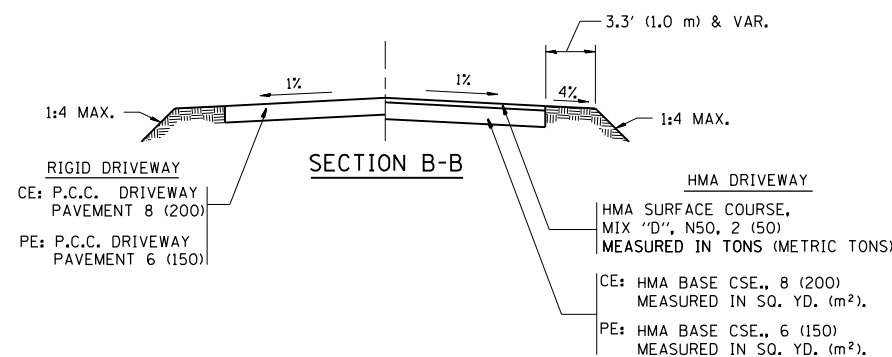
WITH CONCRETE CURB, TYPE B



ADJACENT TO P.C.C. / HMA SHOULDER



ADJACENT TO CURB AND GUTTER



RURAL FIELD ENTRANCE (FE)

HMA SURFACE COURSE, MIX "D", N50, 2 (50) MEASURED IN TONS (METRIC TONS)

AGGREGATE BASE CSE., TYPE B, 8 (200) MEASURED IN SQ. YD. (m²).

GENERAL NOTES:

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

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

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

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

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

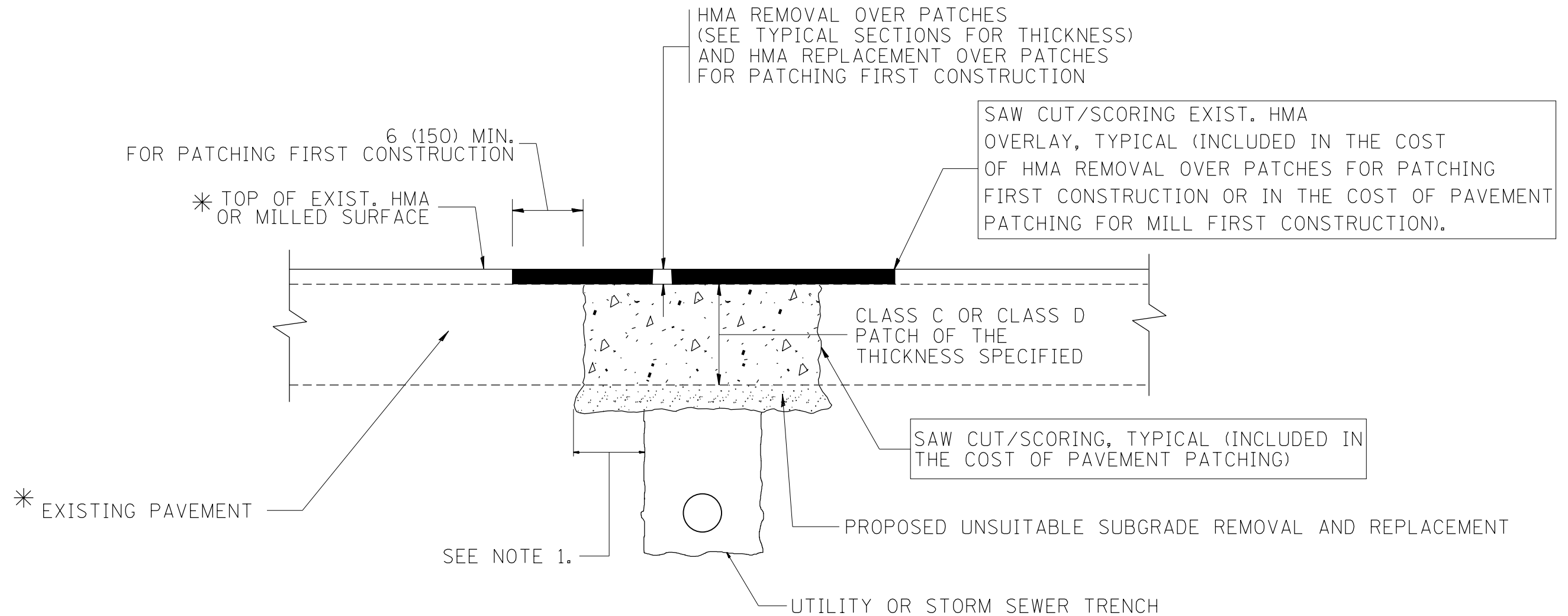
WHEN THE P.C.C. SIDEWALK EXTENDS THROUGH THE DRIVEWAY, THE THICKNESS OF THE SIDEWALK IN THE DRIVEWAY AREA SHALL BE THE SAME AS THE DRIVEWAY THICKNESS. SIDEWALK WILL BE PAID FOR AS P.C.C. SIDEWALK OF THE THICKNESS SPECIFIED. SIDEWALK CROSS SLOPE THRU DRIVEWAY AREA TO BE A MAXIMUM OF 1:50.

FILE NAME =	USER NAME = jd	DESIGNED - R. SHAH	REVISED - P. LaFLUER 04-15-03
Y:\13015 WO 1 Glen Crest Creek\Design\PreIm\PlotSheets\0160V29-048-bd01.dgn		DRAWN -	REVISED - R. BORO 01-01-07
		CHECKED -	REVISED - R. BORO 06-11-08
		DATE - 11-04-95	REVISED - R. BORO 09-06-11

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

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

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
870	534X-B	DUPAGE	66	48
BD0156-07 (BD-01)			CONTRACT NO. 60V29	
FED. ROAD DIST. NO. 1 ILLINOIS FED. AID PROJECT				



* SEE TYPICAL SECTIONS FOR THICKNESS AND MATERIALS

NOTES:

1. THE WIDTH OF THE FULL DEPTH PATCH OVER A TRENCH SHALL BE 12 (300) WIDER ON EACH SIDE OF THE TRENCH.
2. FOR METHOD OF MEASUREMENT AND BASIS OF PAYMENT, SEE RECURRING SPECIAL PROVISION "PATCHING WITH HOT-MIX ASPHALT OVERLAY REMOVAL".

SEQUENCE OF CONSTRUCTION (PATCHING FIRST)

1. REMOVE THE EXISTING HMA MATERIAL OVER THE AREA TO BE PATCHED.
2. REMOVE AND REPLACE WITH CLASS C OR D PATCH.
3. REPLACE HMA MATERIAL OVER THE AREA TO BE PATCHED.

SEQUENCE OF CONSTRUCTION (MILLING FIRST)

1. MILL HMA FIRST IF THERE IS AT LEAST 4 1/2 INCHES OR MORE OF HMA MATERIAL ON TOP OF THE EXISTING PAVEMENT OR IF THE PAVEMENT IS FULL DEPTH HMA. A MINIMUM OF 2 INCHES OF HMA MATERIAL SHALL BE IN PLACE AFTER MILLING.
2. REMOVE AND REPLACE WITH FULL DEPTH CLASS D PATCHES TO TOP OF MILLED SURFACE.

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

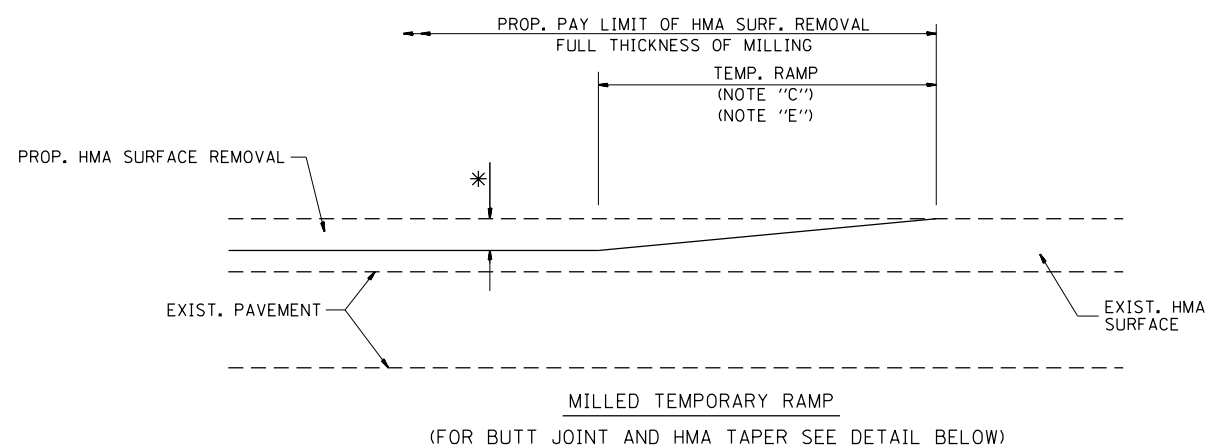
FILE NAME =	USER NAME = jd	DESIGNED - R. SHAH	REVISED - A. ABBAS 04-27-98
Y:\13015 WO 1 Glen Crest Creek\Design\PreIm\PlotSheets\DI60V29-049-bd22.dgn		DRAWN -	REVISED - R. BORO 01-01-07
	PLOT SCALE = 100.000' / in.	CHECKED -	REVISED - R. BORO 09-04-07
	PLOT DATE = 8/6/2015	DATE - 10-25-94	REVISED - K. ENG 10-27-08

**STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION**

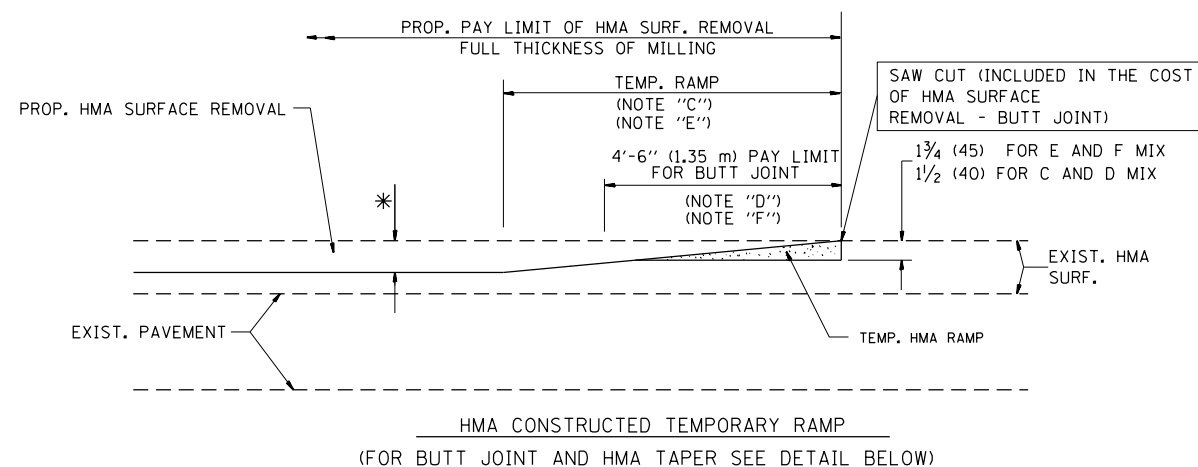
**PAVEMENT PATCHING FOR
HMA SURFACED PAVEMENT**

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

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
870	534X-B	DUPAGE	66	49
BD400-04 (BD-22)			CONTRACT NO. 60V29	
FED. ROAD DIST. NO. 1 ILLINOIS FED. AID PROJECT				

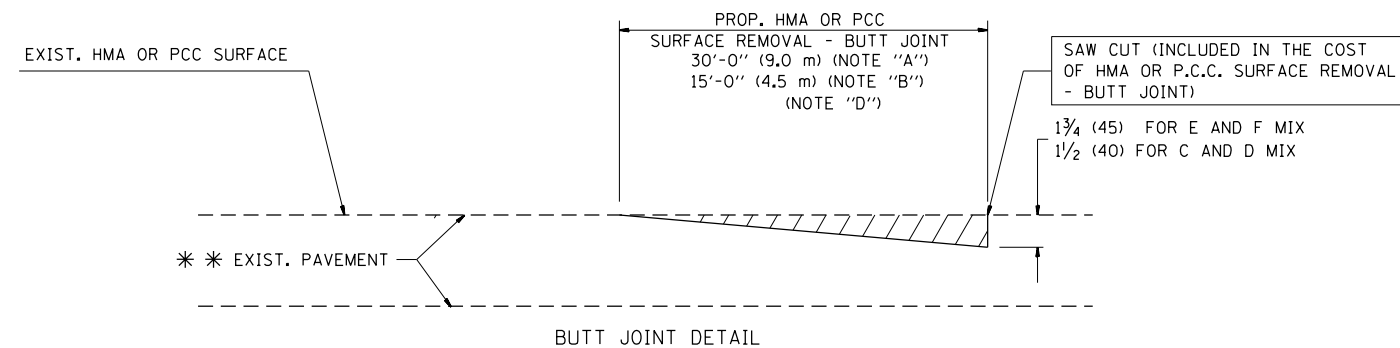


OPTION 1

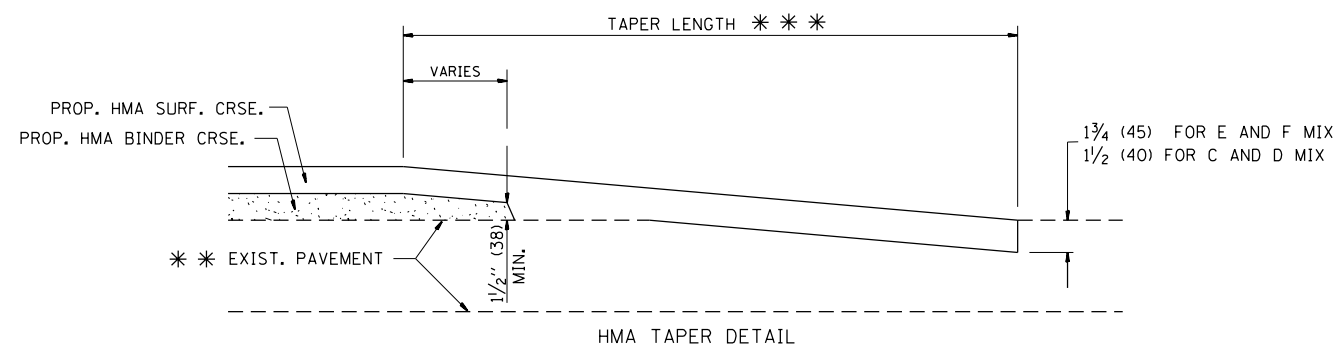


OPTION 2

TYPICAL TEMPORARY RAMP



BUTT JOINT DETAIL



HMA TAPER DETAIL

TYPICAL BUTT JOINT AND HMA TAPER FOR RESURFACING ONLY

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

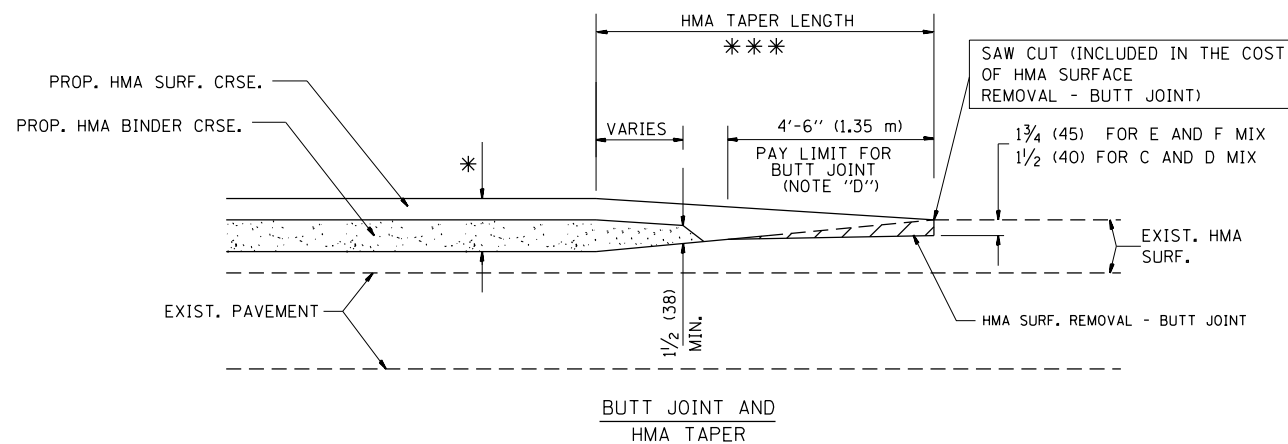
NOTES

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

BASIS OF PAYMENT:

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

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



TYPICAL BUTT JOINT AND HMA TAPER FOR MILLING AND RESURFACING

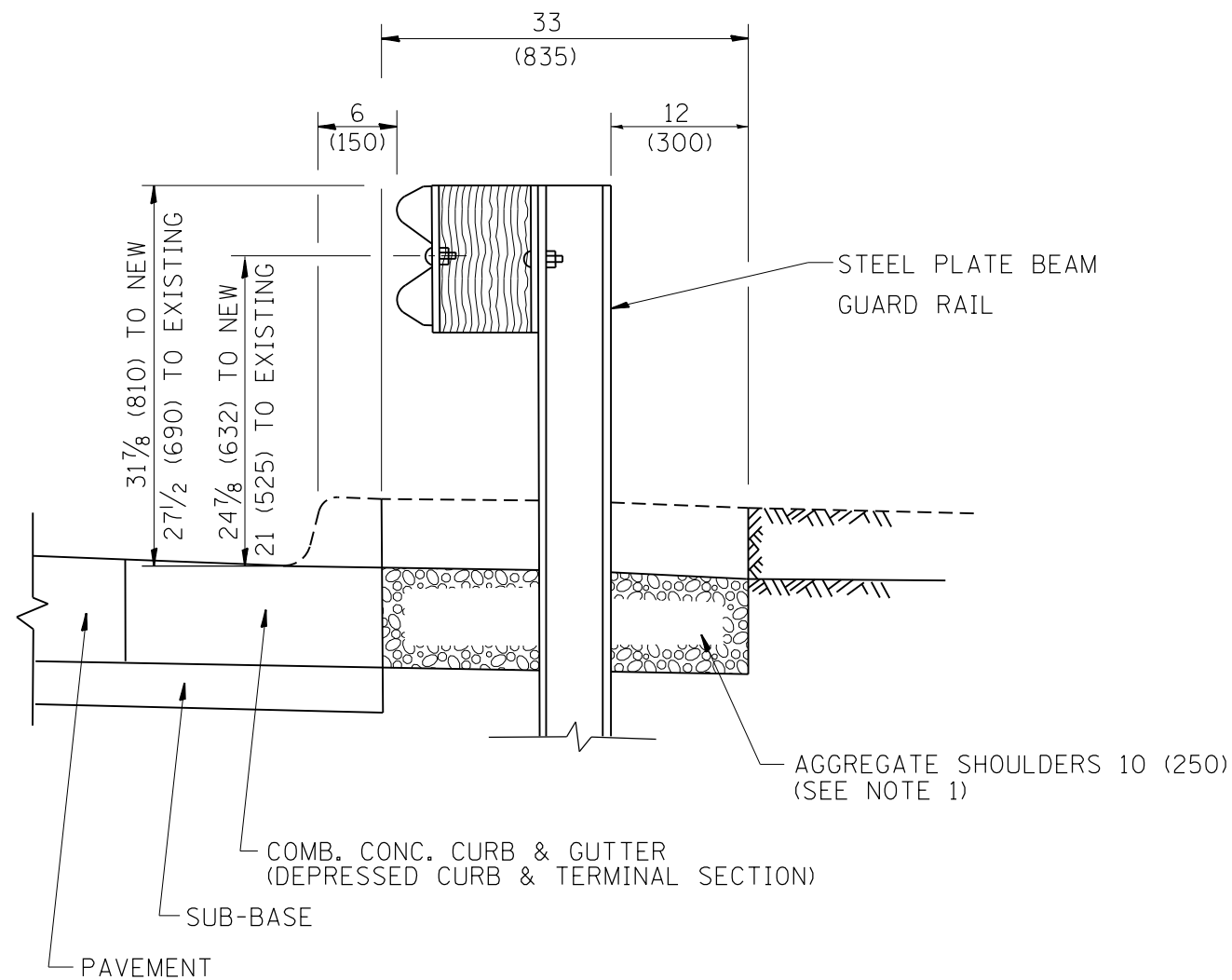
FILE NAME =	USER NAME = jd	DESIGNED - M. DE YONG	REVISED - R. SHAH 10-25-94
Y:\13015 WO 1 Glen Crest Creek\Design\PreIm\PlotSheets\0160V29-050-bd32.dgn		DRAWN -	REVISED - A. ABBAS 03-21-97
	PLOT SCALE = 99.9998 ' / in.	CHECKED -	REVISED - M. GOMEZ 04-06-01
	PLOT DATE = 8/6/2015	DATE - 06-13-90	REVISED - R. BORO 01-01-07

**STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION**

**BUTT JOINT AND
HMA TAPER DETAILS**

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

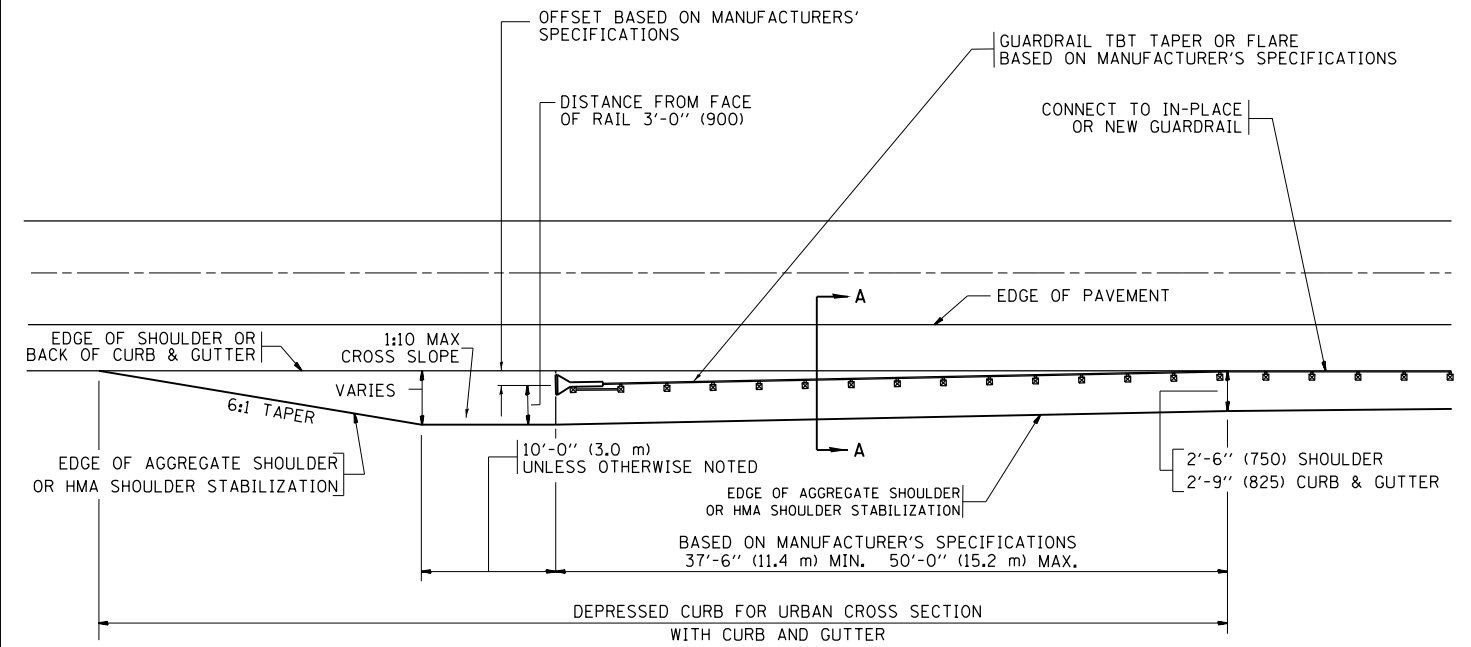
F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
870	534X-B	DUPAGE	66	50
BD400-05 BD32		CONTRACT NO. 60V29		
FED. ROAD DIST. NO. 1 ILLINOIS FED. AID PROJECT				



SECTION A-A

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

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



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

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

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

TBT = TRAFFIC BARRIER TERMINAL
ALL DIMENSIONS ARE IN INCHES (MILLIMETERS) UNLESS OTHERWISE SHOWN.

FILE NAME =	USER NAME = jd	DESIGNED - M. DE YONG	REVISED - E. GOMEZ 08-28-00
Y:\13015 WO 1 Glen Crest Creek\Design\PreIm\PlotSheets\0160V29-051-bd34.dgn		DRAWN -	REVISED - R. BORO 01-01-07
	PLOT SCALE = 99.9998' / in.	CHECKED -	REVISED - R. BORO 12-08-2008
	PLOT DATE = 8/6/2015	DATE - 09-22-90	REVISED - R. BORO 09-14-2009

**STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION**

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

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

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
870	534X-B	DUPAGE	66	51
BD600-10 (BD 34)			CONTRACT NO. 60V29	
FED. ROAD DIST. NO. 1 ILLINOIS FED. AID PROJECT				

GENERAL NOTES

ALTERNATE MATERIAL FOR THE WALLS MAY BE CONCRETE MASONRY UNITS, PRECAST REINFORCED CONCRETE SECTIONS OR CAST-IN-PLACE CONCRETE. THE CAST IRON STEPS AS DETAILED HEREON ARE TYPICAL. STEPS OF OTHER DESIGN AND MATERIAL THAT CONFORM TO THE MINIMUM REQUIREMENTS OF THE STEPS SHOWN MAY BE USED WHEN APPROVED BY THE ENGINEER.

CAST IRON STEPS SHALL BE GRAY IRON CONFORMING TO THE REQUIREMENTS OF ARTICLE 1006.14 OF THE STANDARD SPECIFICATIONS.

STEPS SHALL BE EMBEDDED INTO THE WALL A MINIMUM OF THREE (3) INCHES. STEPS SHALL NOT BE EXTENDED ON THE OUTSIDE.

STEPS SHALL BE OMITTED FOR WORK IN COOK COUNTY WHEN THE DEPTH OF THE MANHOLE IS TEN (10') OR LESS.

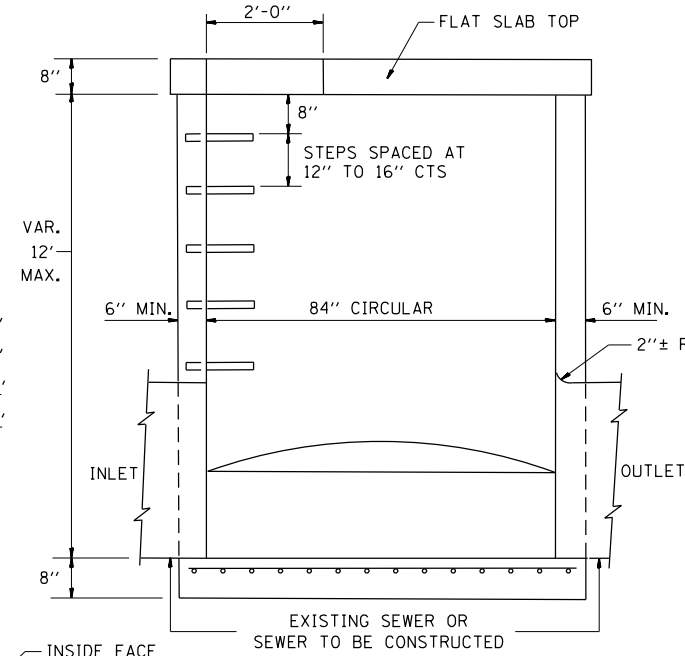
IN ADDITION TO THE REQUIREMENTS OF ARTICLE 612.13 OF THE STANDARD SPECIFICATIONS, THE CONTRACT UNIT PRICE FOR MANHOLES, TYPE A, 7'-DIAMETER SHALL INCLUDE THE SAND CUSHION WHEN REQUIRED, FURNISHING AND INSTALLING STEPS WHEN REQUIRED, FURNISHING AND COMPACTING THE SPECIFIED BACKFILL MATERIAL, AND FURNISHING AND INSTALLING FLAT SLAB TOP.

PRECAST FLAT SLAB TOP SHALL CONFORM TO ARTICLES 505.01 THRU 505.05 OF THE STANDARD SPECIFICATIONS EXCEPT THAT THE CONCRETE STRENGTH SHALL BE 4,000 PSI AFTER 28 DAYS. REINFORCEMENT BARS AND WELDED WIRE FABRIC SHALL CONFORM TO THE REQUIREMENTS OF ARTICLE 1006.10. ONLY GRADE 60 REINFORCEMENT BARS WILL BE PERMITTED.

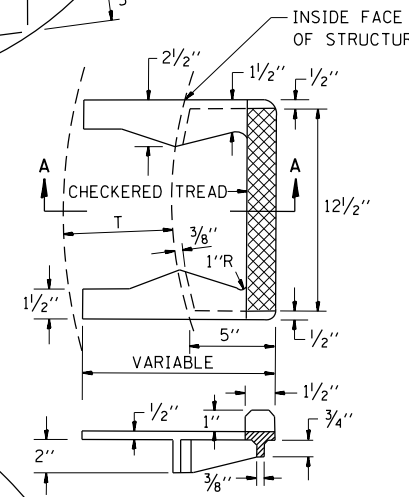
BOTTOM SLAB SHALL BE REINFORCED BY EITHER REINFORCEMENT BARS OR WELDED WIRE FABRIC. THE MINIMUM REINFORCEMENT SHALL BE 0.46 SQUARE INCH PER LINEAR FOOT IN BOTH DIRECTIONS.

JOINT CONFIGURATION AND DIMENSIONS OF FLAT SLAB TOP SHALL MATCH AND FIT THE RISER JOINT DETAIL.

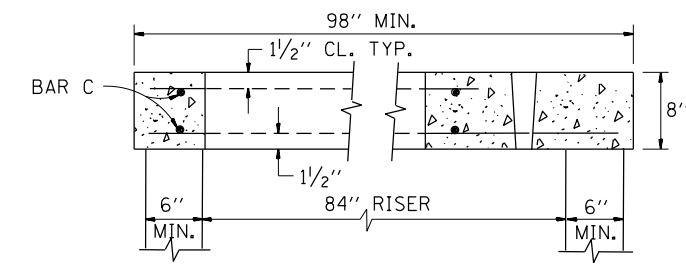
LIFTING DEVICES SHALL BE APPROVED BY THE ENGINEER.



ELEVATION

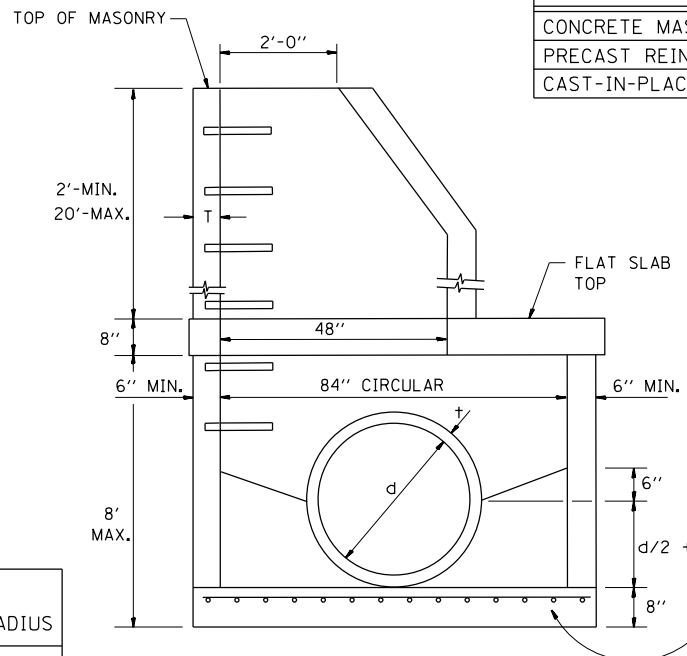


**SEC. A-A
CAST IRON STEPS**

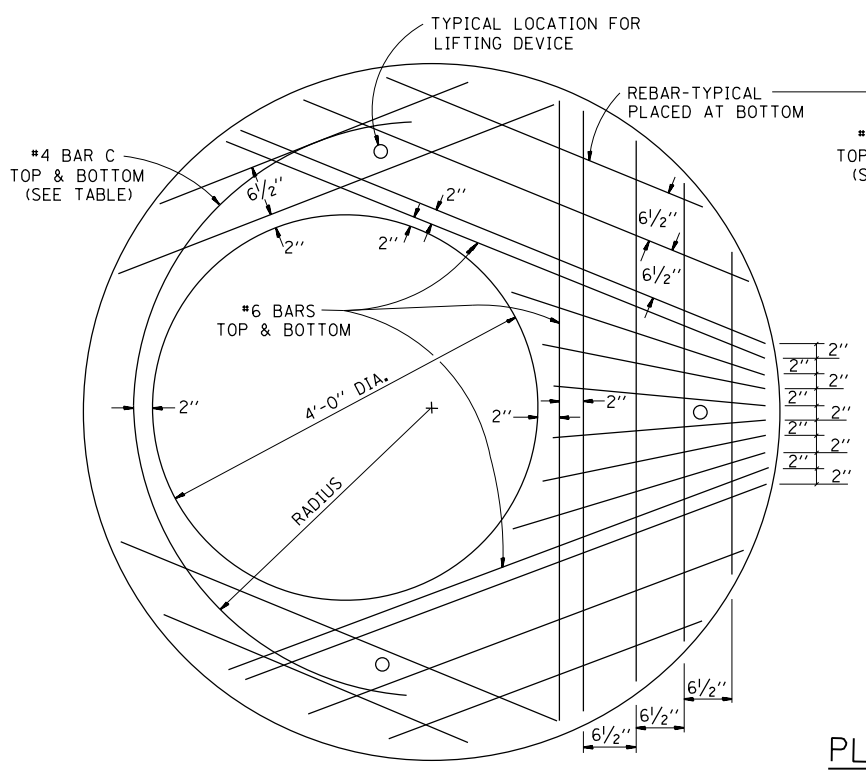
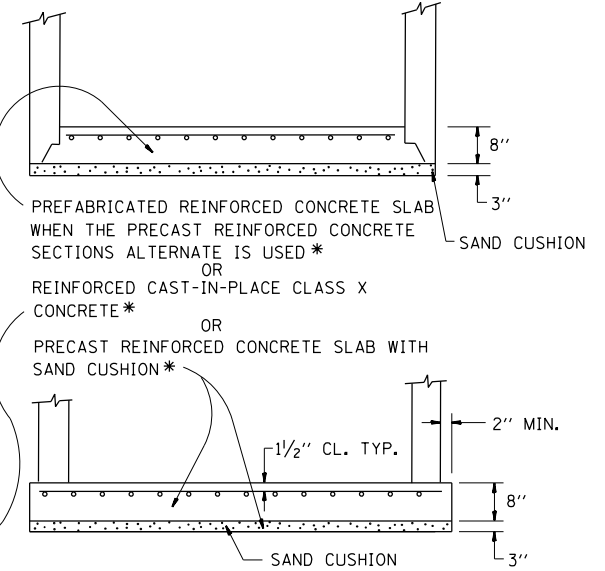


SECTION B-B

ALTERNATE MATERIALS FOR RISERS	T (MIN.)
CONCRETE MASONRY UNITS	5"
PRECAST REINFORCED CONCRETE SECTIONS	4"
CAST-IN-PLACE CONCRETE	6"

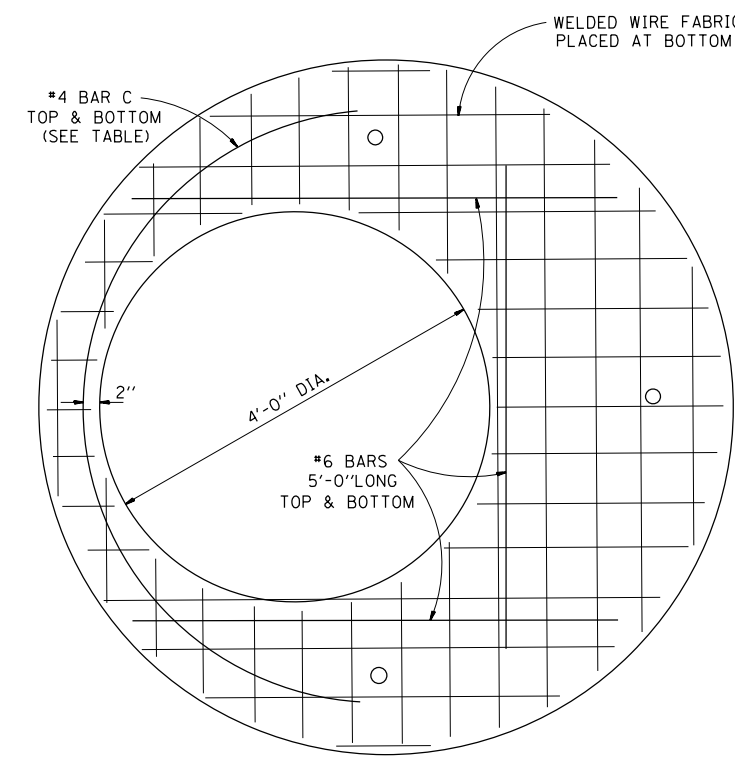
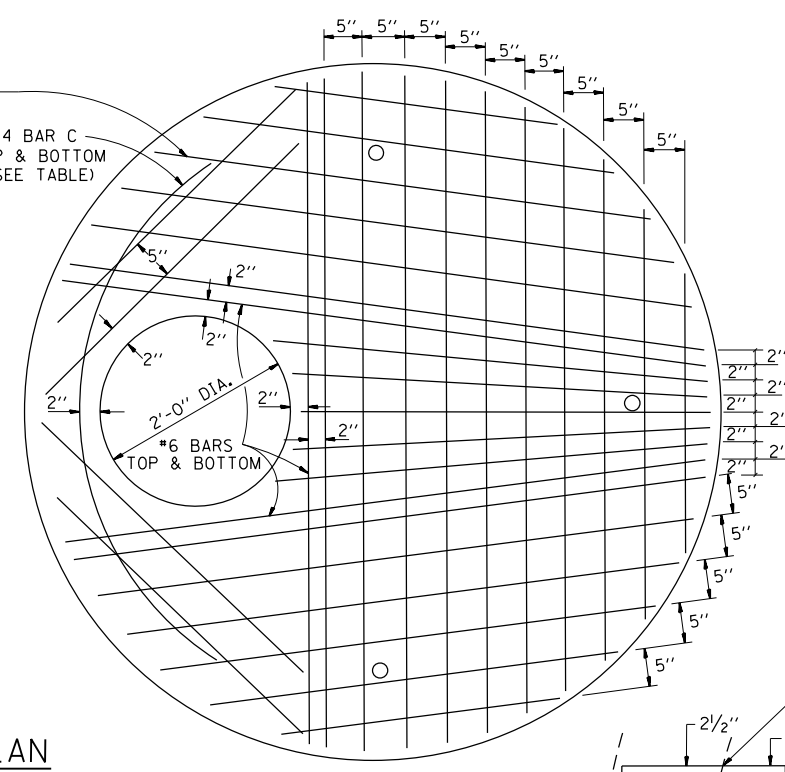


ELEVATION



PLAN

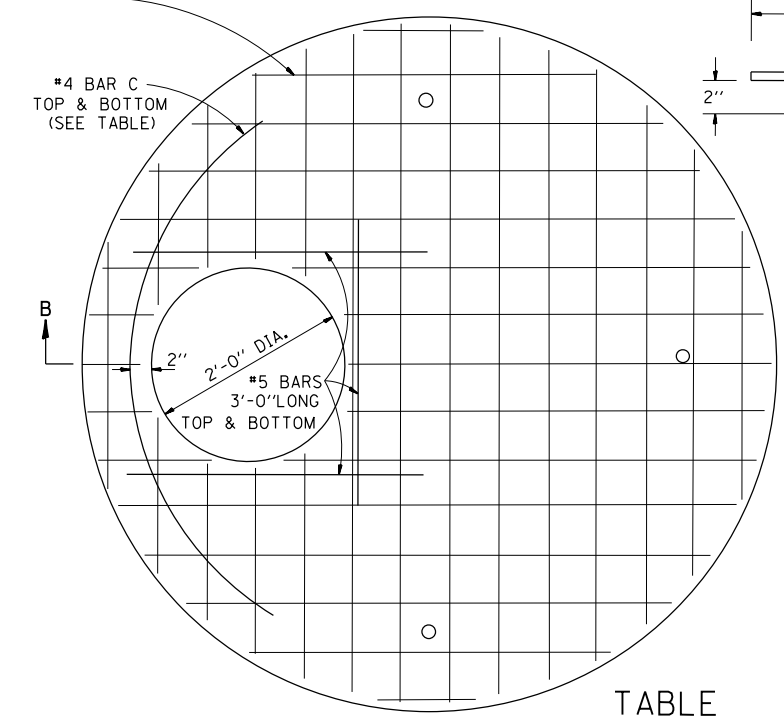
SHOWING REBAR REINFORCEMENT



PLAN

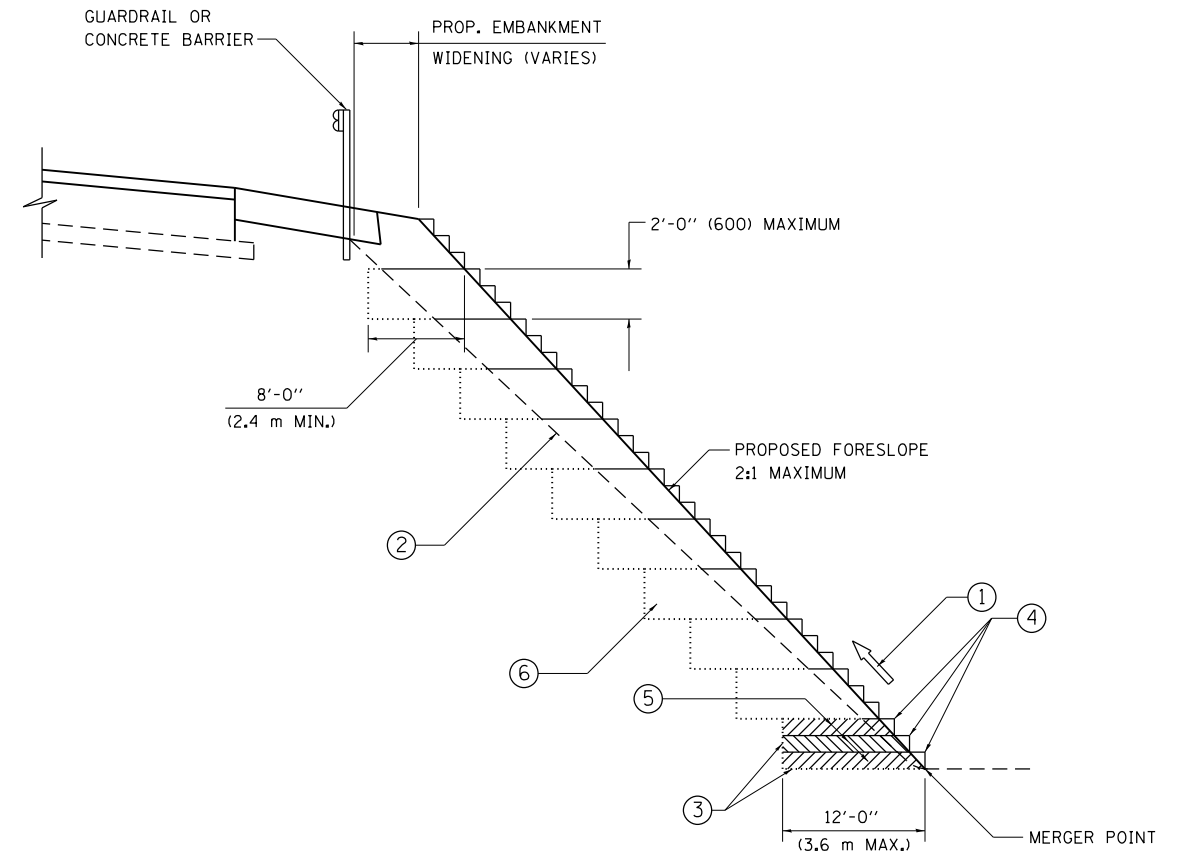
SHOWING WELDED WIRE FABRIC REINFORCEMENT

NOTE: THIS STRUCTURE SHOULD BE USED WITH PIPES SIZE 54" DIA. OR SMALLER.



TABLE

DIAMETER OF OPENING	REINFORCEMENT "A _c " WWF OR EACH DIRECTION	BAR SIZE	BAR C		
			SIZE	LENGTH	RADIUS
2'-0"	1.06 SQ.IN./LIN.FT.	#6	#4	6'-0"	38"
4'-0"	0.82 SQ.IN./LIN.FT.	#6	#4	9'-0"	38"



**TYPICAL BENCHING DETAIL
FOR EMBANKMENT**

NOTES:

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

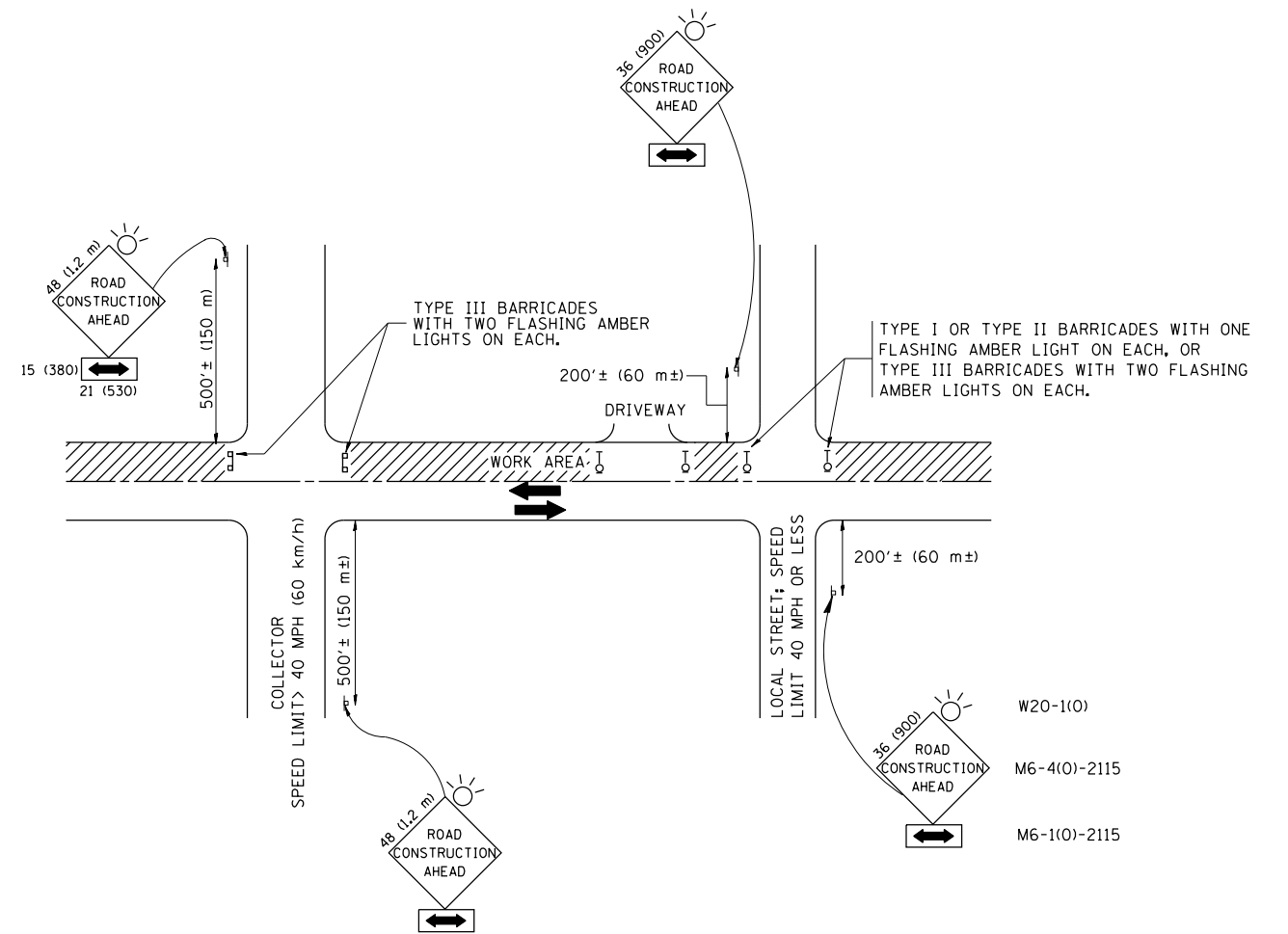
ALL DIMENSIONS ARE IN INCHES (MILLIMETERS)
UNLESS OTHERWISE SHOWN.

FILE NAME =	USER NAME = jd	DESIGNED -	REVISED -
Y:\13015 WO 1 Glen Crest Creek\Design\PreIm\PlotSheets\0160V29-053-bd51.dgn		DRAWN - CADD	REVISED -
	PLOT SCALE = 99.9998' / in.	CHECKED - S.E.B.	REVISED -
	PLOT DATE = 8/6/2015	DATE - 06-16-04	REVISED -

**STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION**

BENCHING DETAIL FOR EMBANKMENT WIDENING			
SCALE: NONE	SHEET NO. 1 OF 1 SHEETS	STA.	TO STA.

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
870	534X-B		66	53
BD-51			CONTRACT NO. 60V29	
FED. ROAD DIST. NO. 1 ILLINOIS FED. AID PROJECT				



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

NOTES:

A. FOR NO LANE RESTRICTION ON THE SIDE ROAD OR DRIVEWAYS

1. SIDE ROAD WITH A SPEED LIMIT OF 40 MPH (60 km/h) OR LESS AS SHOWN ON THE DRAWING AND AS DIRECTED BY THE ENGINEER:

a) ONE ROAD CONSTRUCTION AHEAD SIGN 36 x 36 (900x900) WITH A FLASHER AND FLAG MOUNTED ON IT APPROXIMATELY 200' (60 m) IN ADVANCE OF THE MAIN ROUTE.

b) THE CLOSED PORTION OF THE MAIN ROUTE SHALL BE PROTECTED BY BLOCKING WITH TYPE I, TYPE II OR TYPE III BARRICADES, 1/3 OF THE CROSS SECTION OF THE CLOSED PORTION.

2. SIDE ROAD WITH A SPEED LIMIT GREATER THAN 40 MPH (60 km/h) AS SHOWN ON THE DRAWING AND AS DIRECTED BY THE ENGINEER:

a) ONE ROAD CONSTRUCTION AHEAD SIGN 48 x 48 (1.2 m x 1.2 m) WITH A FLASHER MOUNTED ON IT APPROXIMATELY 500' (150 m) IN ADVANCE OF THE MAIN ROUTE.

b) THE CLOSED PORTION OF THE MAIN ROUTE SHALL BE PROTECTED BY BLOCKING WITH TYPE III BARRICADES, 1/2 OF THE CROSS SECTION OF THE CLOSED PORTION.

3. WHEN THE SIDE ROAD LIES BETWEEN THE BEGINNING OF THE MAINLINE SIGNING AND THE WORK ZONE, A SINGLE HEADED ARROW (M6-1) SHALL BE USED IN LIEU OF THE DOUBLE HEADED ARROW (M6-4).

B. FOR A LANE CLOSURE ON A SIDE ROAD OR DRIVEWAY:

USE APPLICABLE PORTIONS OF THE TYPICAL APPLICATION OF TRAFFIC CONTROL DEVICES (STD. 701501, STD. 701606 OR THE APPROPRIATE STANDARD). THE SPACING OF SIGNS AND BARRICADES SHALL BE ADJUSTED FOR FIELD CONDITIONS AS DIRECTED BY THE ENGINEER. THE DIRECTIONAL ARROW SHALL BE COVERED OR REMOVED WHEN NO LONGER CONSISTENT WITH THE SIDE ROAD LANE CLOSURE.

C. ADVANCE WARNING SIGNS ARE TO BE OMITTED ON DRIVEWAY UNLESS OTHERWISE NOTED.

D. THE TRAFFIC CONTROL AND PROTECTION FOR SIDE ROADS, INTERSECTIONS, AND DRIVEWAYS SHALL BE INCIDENTAL TO THE COST OF SPECIFIED TRAFFIC CONTROL STANDARDS OR ITEMS.

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

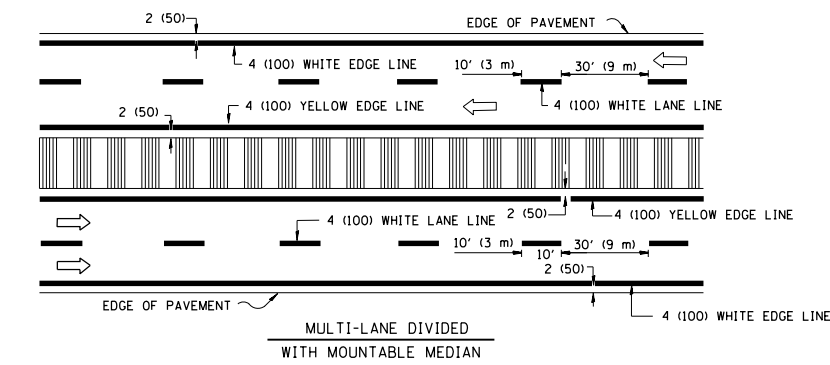
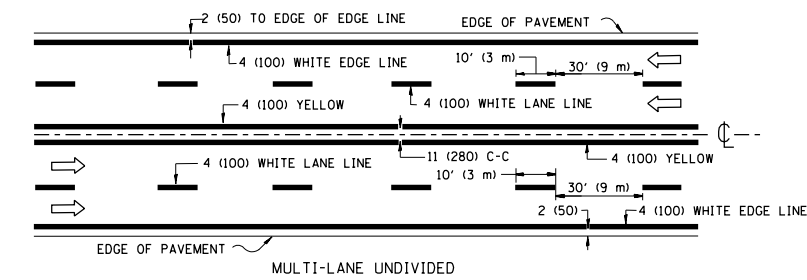
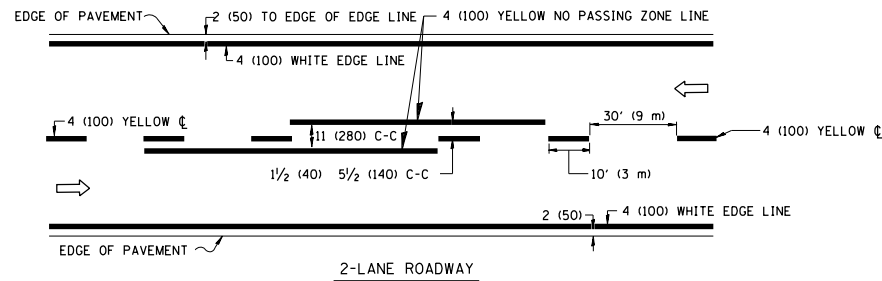
FILE NAME =	USER NAME = jd	DESIGNED - LHA	REVISED - J. OBERLE 10-18-95
Y:\13015 WO 1 Glen Crest Creek\Design\PreIm\PlotSheets\DI60V29-054-td10.dgn		DRAWN -	REVISED - A. HOUSEH 03-06-96
	PLOT SCALE = 100.000' / in.	CHECKED -	REVISED - A. HOUSEH 10-15-96
	PLOT DATE = 8/6/2015	DATE - 06-89	REVISED - T. RAMMACHER 01-06-00

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

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

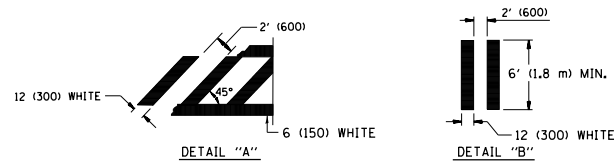
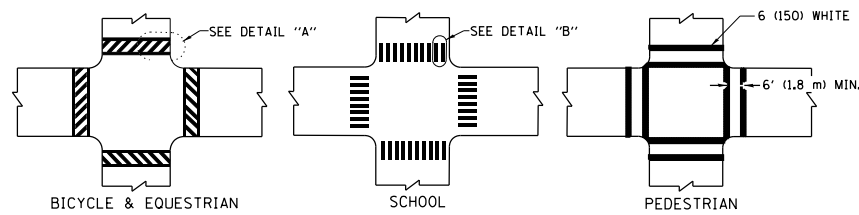
SCALE: NONE SHEET NO. 1 OF 1 SHEETS STA. TO STA.

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
870	534X-B	DUPAGE	66	54
TC-10			CONTRACT NO. 60V29	
FED. ROAD DIST. NO. 1 ILLINOIS FED. AID PROJECT				

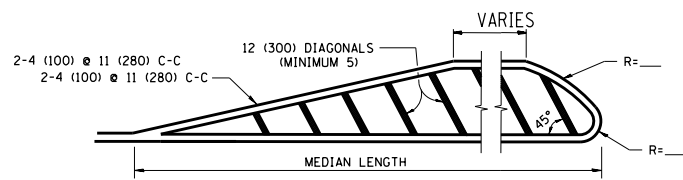
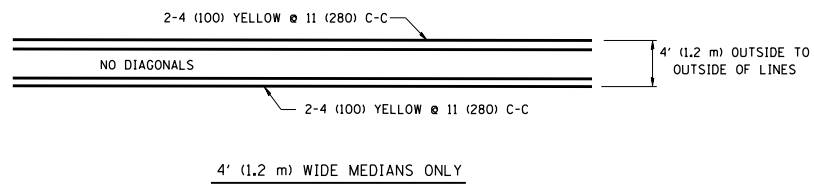


NOTE: MEDIANS WITH BARRIER CURB DO NOT REQUIRE AN EDGE LINE

TYPICAL LANE AND EDGE LINE MARKING

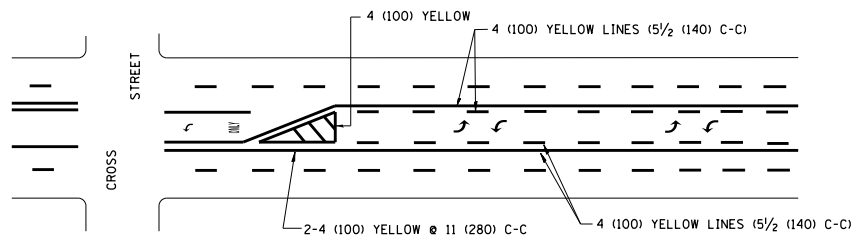


TYPICAL CROSSWALK MARKING

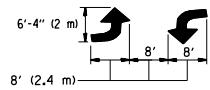


DIAGONAL LINE SPACING: 50' (15 m) C-C (LESS THAN 30MPH (50 km/h))
75' (25 m) C-C 30MPH (50 km/h) TO 45MPH (70 km/h)
150' (45 m) C-C (MORE THAN 45MPH (70 km/h))

TYPICAL PAINTED MEDIAN MARKING

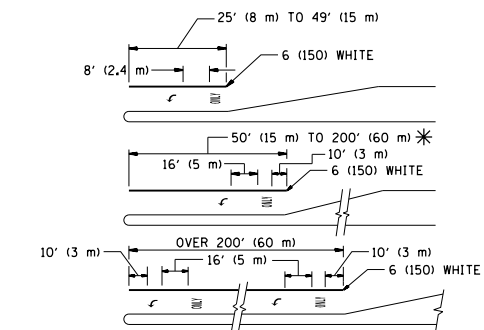


A MINIMUM OF TWO PAIRS OF TURN ARROWS SHALL BE USED, WHITE IN COLOR. ADDITIONAL PAIRS SHALL BE PLACED AT 200' (60 m) TO 300' (90 m) INTERVALS.



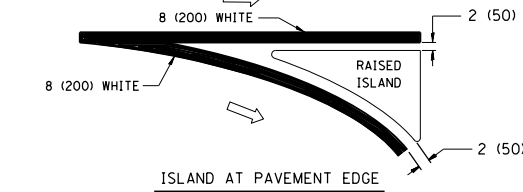
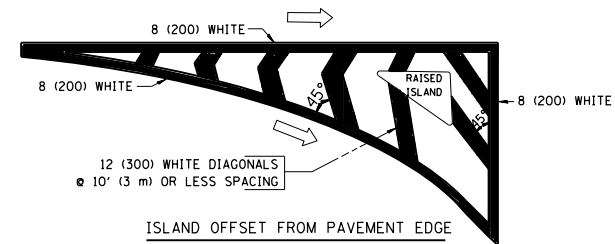
TYPICAL LEFT (OR RIGHT) TURN LANE

TYPICAL TURN LANE MARKING



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

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



TYPICAL 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	4 (100)	SOLID	YELLOW	5 1/2 (140) C-C FROM SKIP-DASH CENTERLINE
NO PASSING ZONE LINES FOR BOTH DIRECTIONS	2 @ 4 (100)	SOLID	YELLOW	11 (280) C-C OMIT SKIP-DASH CENTERLINE BETWEEN
LANE LINES	4 (100) 5 (125) ON FREEWAYS	SKIP-DASH SKIP-DASH	WHITE WHITE	10' (3 m) LINE WITH 30' (9 m) SPACE
DOTTED LINES (EXTENSIONS OF CENTER, LANE OR TURN LANE MARKINGS)	SAME AS LINE BEING EXTENDED	SKIP-DASH	SAME AS LINE BEING EXTENDED	2' (600) LINE WITH 6' (1.8 m) SPACE
EDGE LINES	4 (100)	SOLID	YELLOW-LEFT WHITE-RIGHT	OUTLINE MOUNTABLE MEDIANS IN YELLOW; EDGE LINES ARE NOT USED NEXT TO BARRIER CURB
TURN LANE MARKINGS	6 (150) LINE; FULL SIZE LETTERS & SYMBOLS (8' (2.4m))	SOLID	WHITE	SEE TYPICAL TURN LANE MARKING DETAIL
TWO WAY LEFT TURN MARKING	2 @ 4 (100) EACH DIRECTION 8' (2.4m) LEFT ARROW	SKIP-DASH AND SOLID IN PAIRS	YELLOW WHITE	10' (3 m) LINE WITH 30' (9 m) SPACE FOR SKIP-DASH; 5 1/2 (140) C-C BETWEEN SOLID LINE AND SKIP-DASH LINE. SEE TYPICAL TWO-WAY LEFT TURN MARKING DETAIL
CROSSWALK LINES (PEDESTRIAN) A. DIAGONALS (BIKE & EQUESTRIAN) B. LONGITUDINAL BARS (SCHOOL)	2 @ 6 (150) 12 (300) @ 45° 12 (300) @ 90°	SOLID SOLID SOLID	WHITE WHITE WHITE	NOT LESS THAN 6' (1.8 m) APART 2' (600) APART 2' (600) APART SEE TYPICAL CROSSWALK MARKING DETAILS.
STOP LINES	24 (600)	SOLID	WHITE	PLACE 4' (1.2 m) IN ADVANCE OF AND PARALLEL TO CROSSWALK, IF PRESENT. OTHERWISE, PLACE AT DESIRED STOPPING POINT, PARALLEL TO CROSSROAD CENTERLINE, WHERE POSSIBLE
PAINTED MEDIANS	2 @ 4 (100) WITH 12 (300) DIAGONALS @ 45° NO DIAGONALS USED FOR 4' (1.2 m) WIDE MEDIANS	SOLID	YELLOW; TWO WAY TRAFFIC WHITE; ONE WAY TRAFFIC	11 (280) C-C FOR THE DOUBLE LINE. SEE TYPICAL PAINTED MEDIAN MARKING.
GORE MARKING AND CHANNELIZING LINES	8 (200) WITH 12 (300) DIAGONALS @ 45°	SOLID	WHITE	DIAGONALS: 15' (4.5 m) C-C (LESS THAN 30MPH (50 km/h)) 20' (6 m) C-C 30MPH (50 km/h) TO 45MPH (70 km/h) 30' (9 m) C-C (OVER 45MPH (70 km/h))
RAILROAD CROSSING	24 (600) TRANSVERSE LINES; "RR" 15 6' (1.8 m) LETTERS; 16 (400) LINE FOR "X"	SOLID	WHITE	SEE STATE STANDARD 780001 AREA OF: "R"=3.6 SQ. FT. (0.33 m ²) EACH "X"=54.0 SQ. FT. (5.0 m ²) EACH
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.

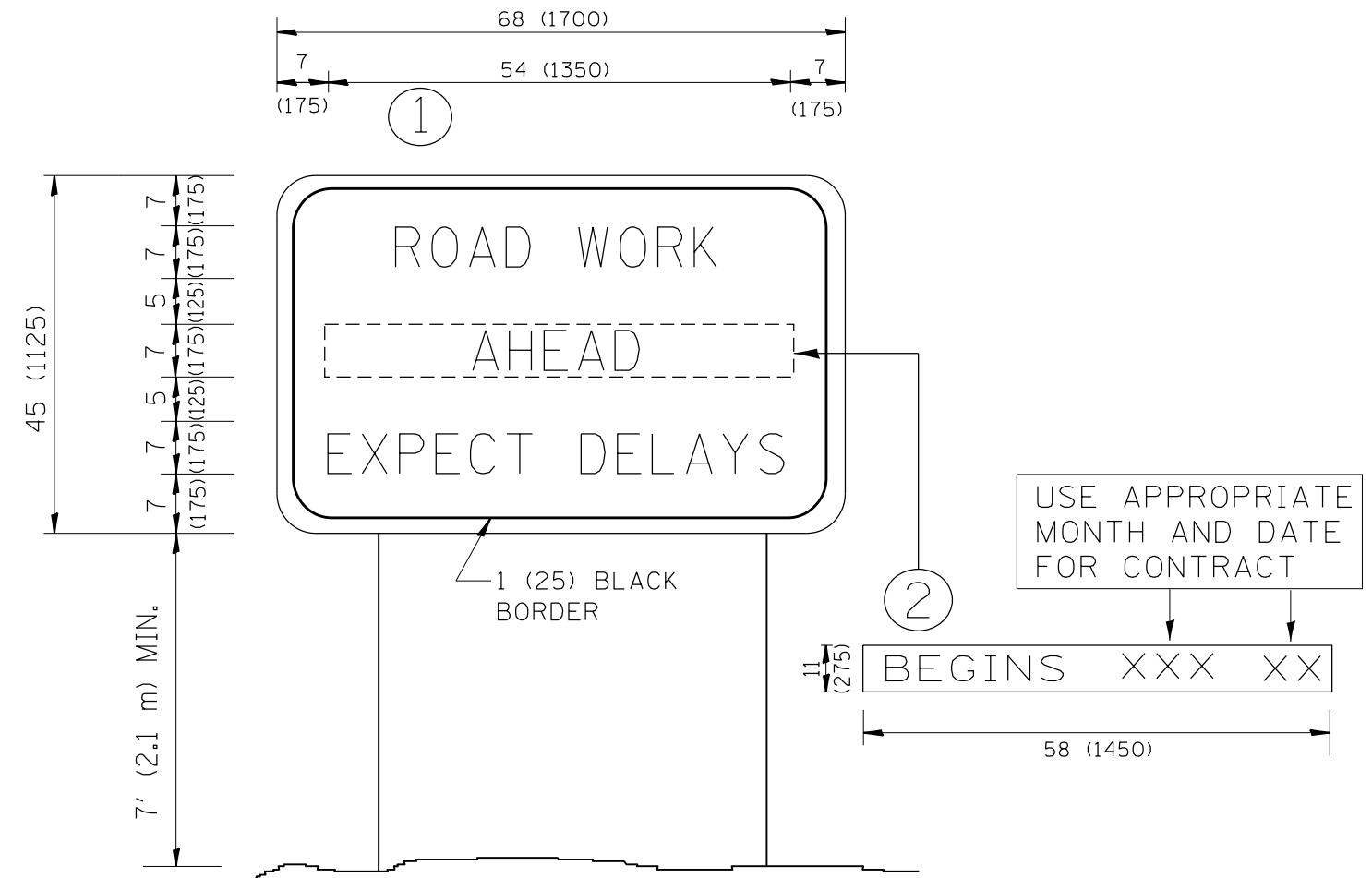
All dimensions are in inches (millimeters) unless otherwise shown.

FILE NAME = Y:\13015 WO 1 Glen Crest Creek\Design\Pre\1m\Plot\13015-055-tel3.dgn	USER NAME = jd	DESIGNED - EVERS	REVISED - T. RAMMACHER 10-27-94
PLOT SCALE = 100.000 / in.	CHECKED -	REVISOR - C. JUCIUS 09-09-09	REVISED -
PLOT DATE = 8/6/2015	DATE - 03-19-90	REVISED -	REVISED -

STATE OF ILLINOIS DEPARTMENT OF TRANSPORTATION

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

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
870	534X-B	DUPAGE	66	55
TC-13		CONTRACT NO. 60V29		
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 =	USER NAME = jd	DESIGNED -	REVISED - R. MIRS 09-15-97
Y:\13015 WO 1 Glen Crest Creek\Design\PreIm\PlotSheets\DI60V29-056-tc22.dgn		DRAWN -	REVISED - R. MIRS 12-11-97
		CHECKED -	REVISED - T. RAMMACHER 02-02-99
		DATE - 10/10/14	REVISED - C. JUCIUS 01-31-07

**STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION**

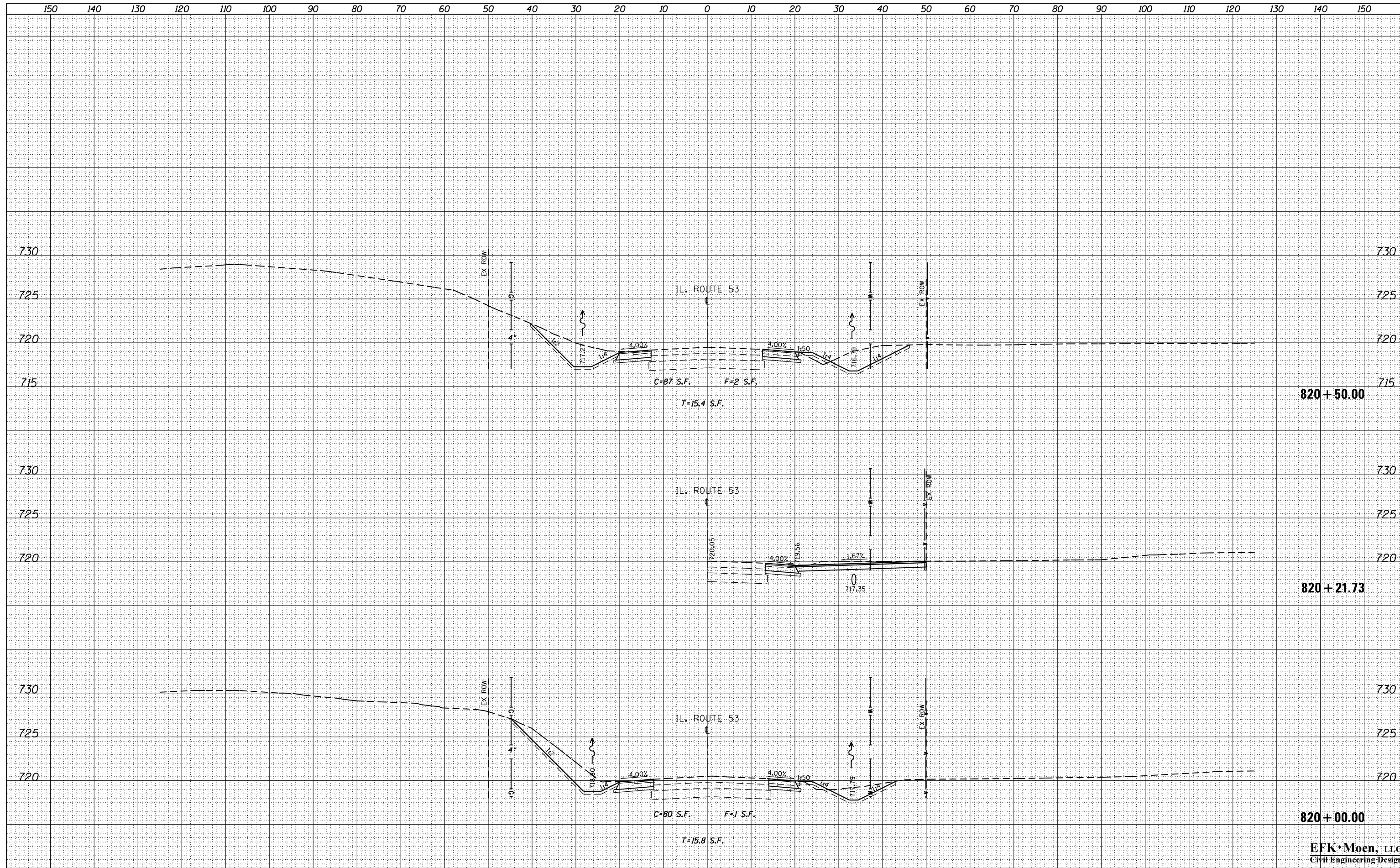
**ARTERIAL ROAD
INFORMATION SIGN**

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

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
870	534X-B	DUPAGE	66	56
TC-22			CONTRACT NO. 60V29	
FED. ROAD DIST. NO. 1 ILLINOIS FED. AID PROJECT				

BY	DATE
SURVEYED	
PLOTTED	
TEMPLATE	
AREAS	
CHECKED	
NO.	

BY	DATE
SURVEYED	
PLOTTED	
TEMPLATE	
AREAS	
CHECKED	
NO.	



FILE NAME = Y:\13015 WD 1 Glen Crest Creek\DCN\Design\Final\Plotsheets\0160\29-057-066-xssht-IL53.dgn
 PLOT SCALE = 20.0000' / in.
 PLOT DATE = 9/21/2015

USER NAME = sf
 DESIGNED - JRD
 DRAWN - DWB
 CHECKED - SLD
 DATE - 8/6/2015

REVISED -
 REVISED -
 REVISED -
 REVISED -

STATE OF ILLINOIS
 DEPARTMENT OF TRANSPORTATION

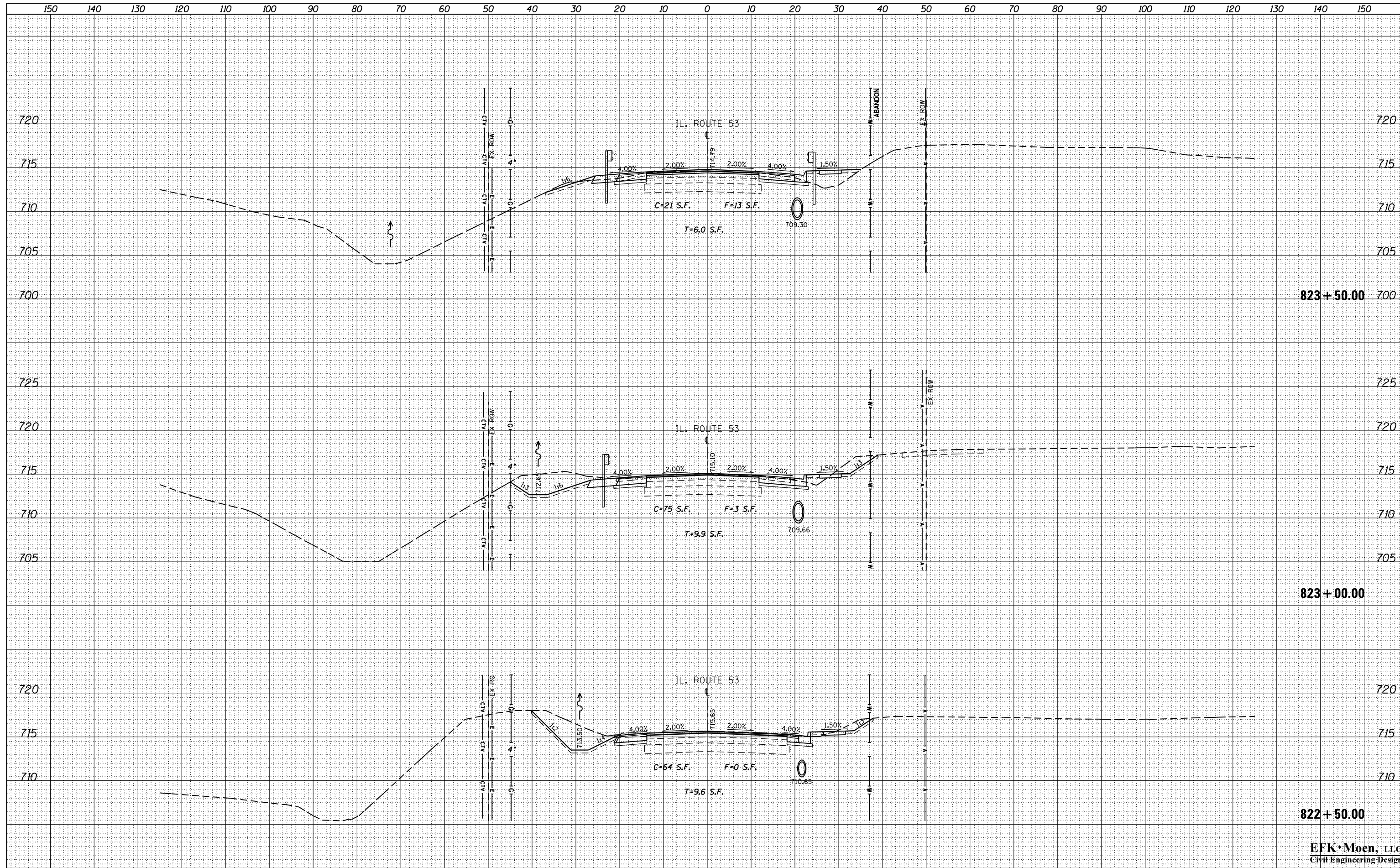
CROSS SECTIONS
 SCALE: 10'H:5'V SHEET 2 OF 10 SHEETS STA. 820+00.00 TO STA. 820+50.00

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
870	534X-B	DUPAGE	66	58
			CONTRACT NO. 60V29	
ILLINOIS FED. AID PROJECT				

EFK Moen, LLC
 Civil Engineering Design

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

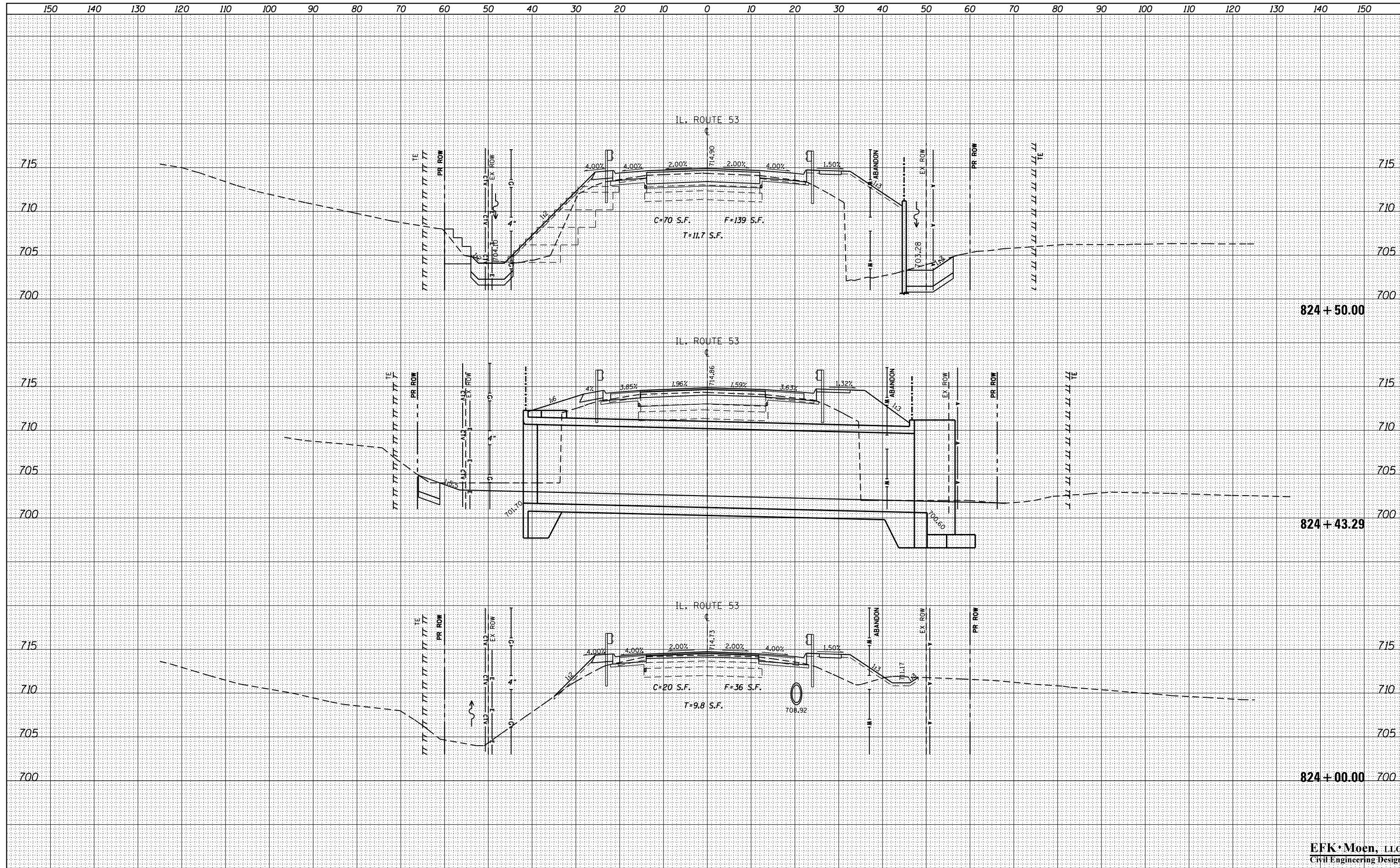
DATE	
BY	
ORIGINAL SURVEY	SURVEYED
NOTE BOOK	PLOTTED
NO.	TEMPLATE
	AREAS
	CHECKED



EFK Moen, LLC
Civil Engineering Design

DATE	
BY	
SURVEYED	
PLOTTED	
TEMPLATE	
NOTE BOOK	
AREAS CHECKED	
NO.	

DATE	
BY	
SURVEYED	
PLOTTED	
TEMPLATE	
NOTE BOOK	
AREAS CHECKED	
NO.	



FILE NAME = Y:\13015 WD 1 Glen Crest Creek\Design\Final\Plotsheets\0160V29-057-066-xssht-IL53.dgn
 MODELNAME

USER NAME = sf
 DESIGNED - JRD
 DRAWN - DWB
 CHECKED - SLD
 DATE - 8/6/2015

REVISED -
 REVISED -
 REVISED -
 REVISED -

**STATE OF ILLINOIS
 DEPARTMENT OF TRANSPORTATION**

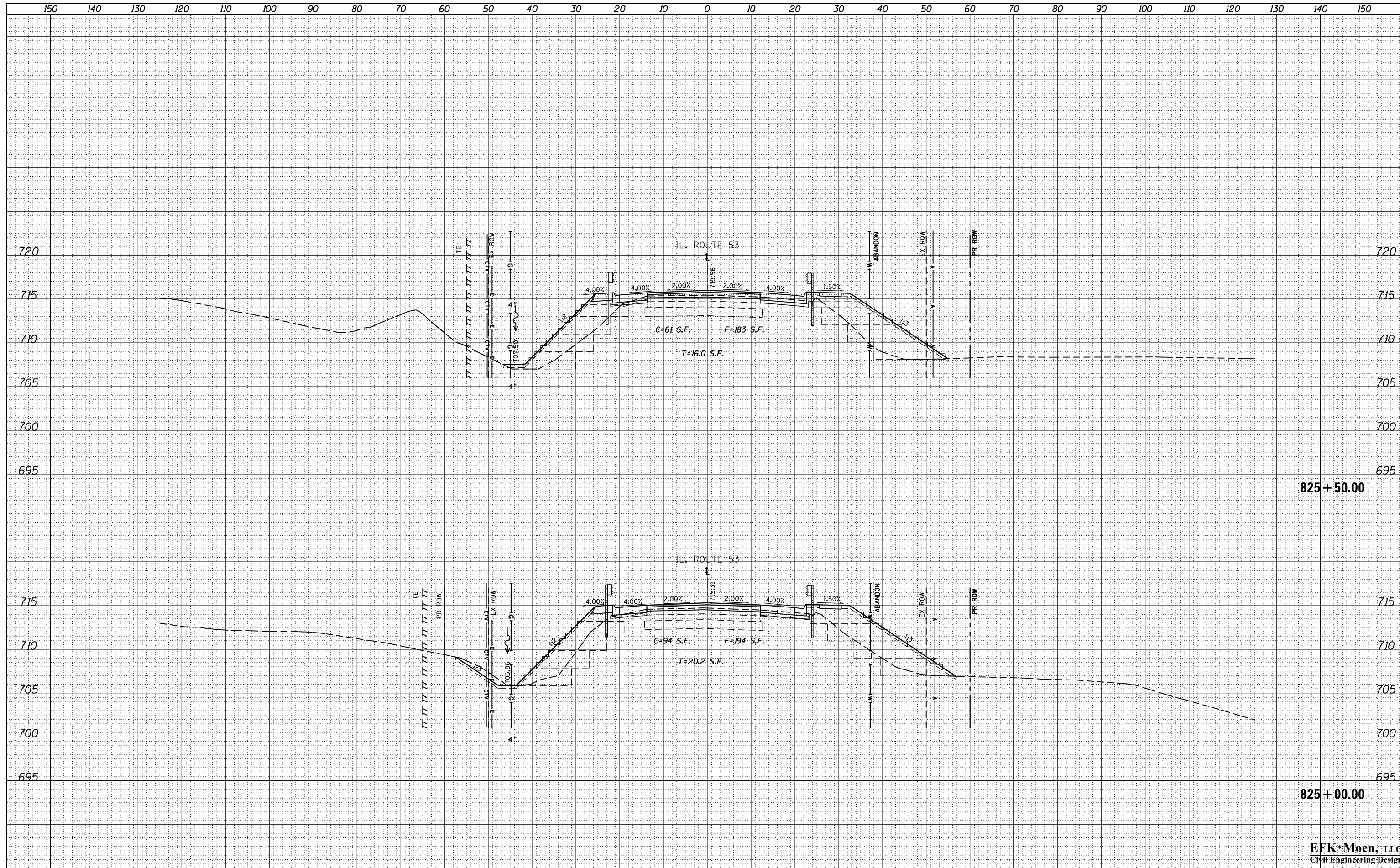
CROSS SECTIONS
 SCALE: 10'H=5'V SHEET 6 OF 10 SHEETS STA. 824+00.00 TO STA. 824+50.00

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
870	534X-B	DUPAGE	66	62
CONTRACT NO. 60V29			ILLINOIS FED. AID PROJECT	

EFK Moen, LLC
 Civil Engineering Design

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

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



FILE NAME = Y:\13015 WD 1 Glen Crest Creek\Design\Final\Plotsheets\0160V29-057-066-xssht-IL53.dgn

USER NAME = sf
 DESIGNED - JRD
 DRAWN - DWB
 CHECKED - SLD
 DATE - 8/6/2015

REVISED -
 REVISED -
 REVISED -
 REVISED -

STATE OF ILLINOIS
 DEPARTMENT OF TRANSPORTATION

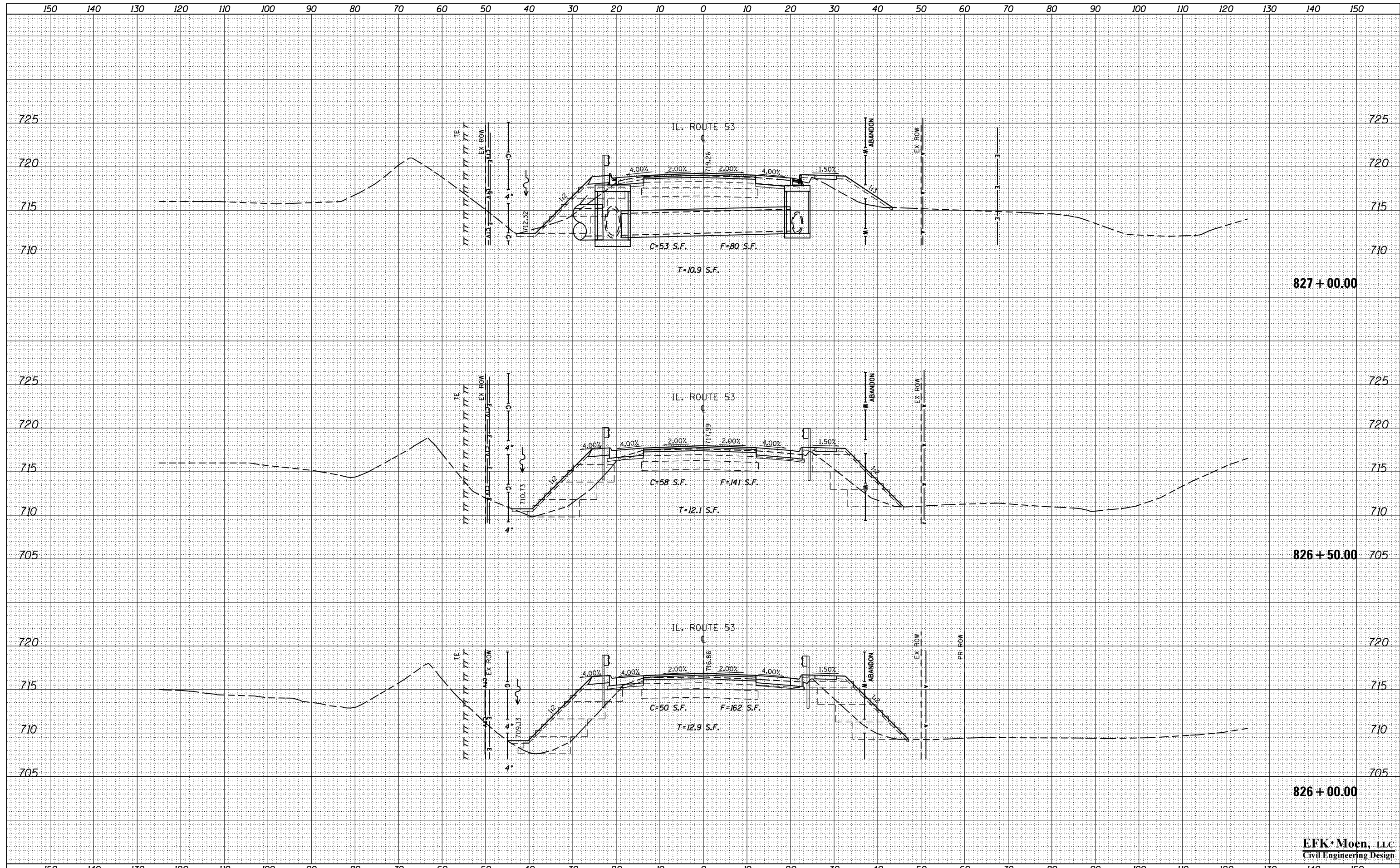
CROSS SECTIONS
 SCALE: 10'H:5'V
 SHEET 7 OF 10 SHEETS
 STA. 825+00.00 TO STA. 825+50.00

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
870	534X-B	DUPAGE	66	63
			CONTRACT NO. 60V29	
ILLINOIS FED. AID PROJECT				

EFK Moen, LLC
 Civil Engineering Design

DATE	
BY	
SURVEYED	
PLOTTED	
TEMPLATE	
NOTE BOOK	
AREAS CHECKED	
NO.	

DATE	
BY	
SURVEYED	
PLOTTED	
TEMPLATE	
NOTE BOOK	
AREAS CHECKED	
NO.	



FILE NAME = Y:\13015 WD 1 Glen Crest Creek\Design\Final

USER NAME = sf

DESIGNED - JRD

DRAWN - DWB

CHECKED - SLD

DATE - 8/6/2015

REVISED -

REVISED -

REVISED -

REVISED -

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

CROSS SECTIONS

SCALE: 10'H:5'V SHEET 8 OF 10 SHEETS STA. 826+00.00 TO STA. 827+00.00

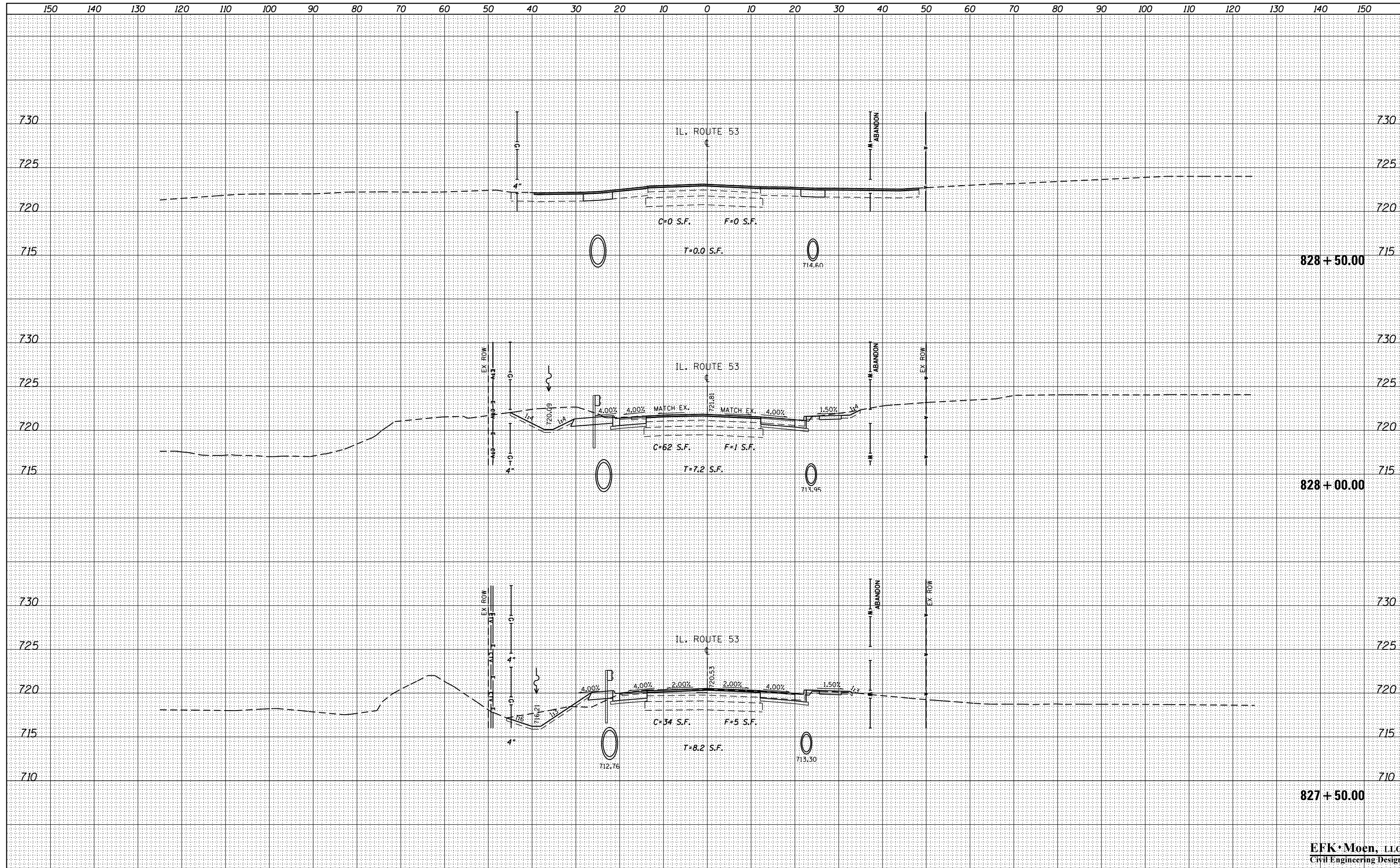
F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
870	534X-B	DUPAGE	66	64
			CONTRACT NO. 60V29	

EFK Moen, LLC
Civil Engineering Design

ILLINOIS FED. AID PROJECT

DATE	
BY	
FINISHED SURVEY	
PLOTTED	
TEMPLATE	
NOTE BOOK	
AREAS CHECKED	
NO.	

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



FILE NAME = Y:\13015 WD 1 Glen Crest Creek\DCN\Design\Final\Plotsheets\0160V29-057-066-ssht-IL53.dgn
 PLOT SCALE = 20.0000' / in.
 PLOT DATE = 9/21/2015

USER NAME = sf
 DESIGNED - JRD
 DRAWN - DWB
 CHECKED - SLD
 DATE - 8/6/2015

REVISED -
 REVISED -
 REVISED -
 REVISED -

**STATE OF ILLINOIS
 DEPARTMENT OF TRANSPORTATION**

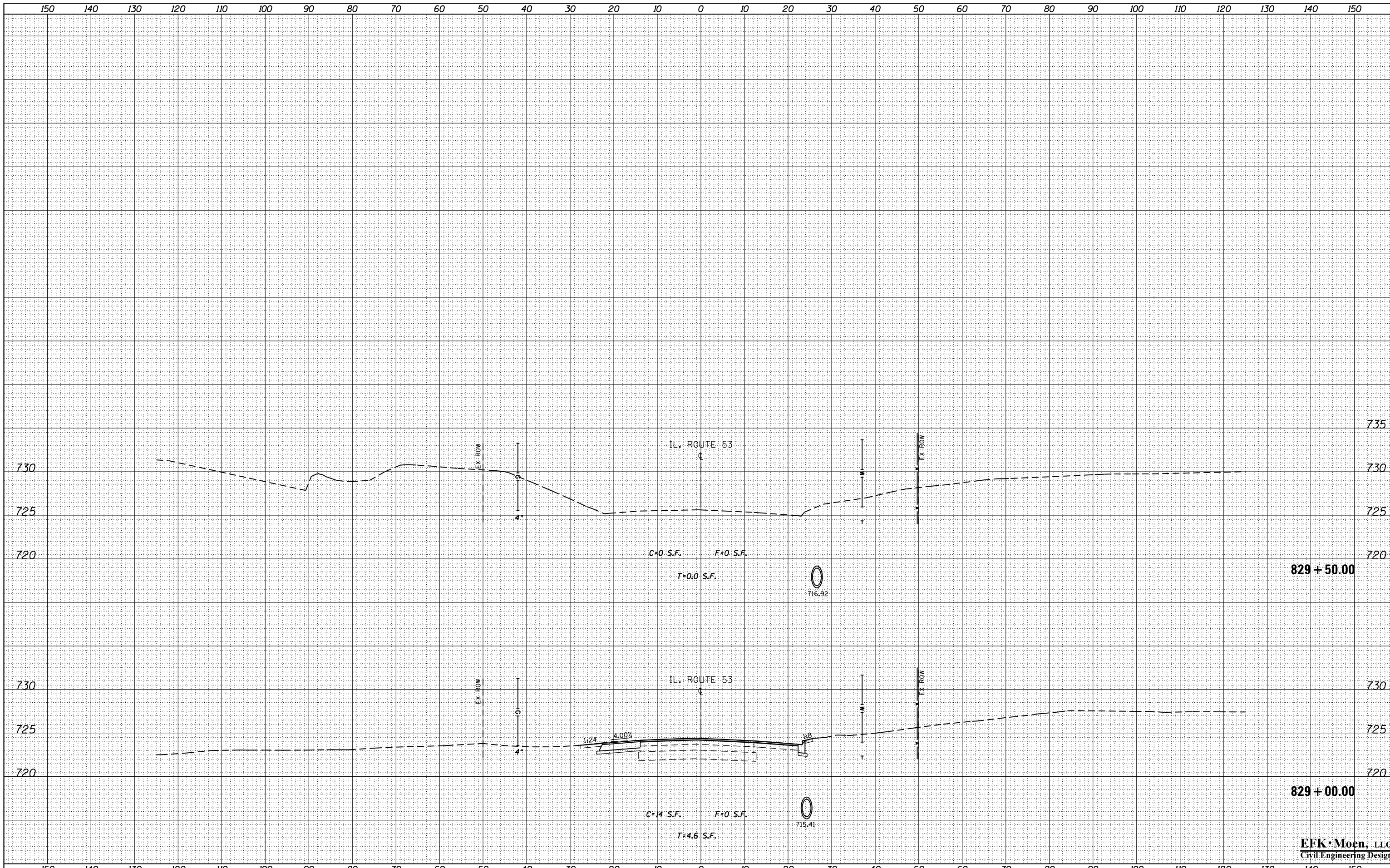
CROSS SECTIONS
 SCALE: 10'H:5'V SHEET 9 OF 10 SHEETS STA. 827+50.00 TO STA. 828+50.00

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
870	534X-B	DUPAGE	66	65
			CONTRACT NO. 60V29	

EFK Moen, LLC
 Civil Engineering Design

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

ORIGINAL SURVEY NO.	SURVEYED	DATE
	PLOTTED	
	TEMPLATE	
	AREAS CHECKED	



FILE NAME = Y:\13015 WD 1 Glen Crest Creek\DCN\Design\Final Plotsheets\0160V29-057-066-xssht-IL53.dgn
 MODELNAME

USER NAME = sf	DESIGNED - JRD	REVISIED -
PLTSCALE = 20.0000' / in.	DRAWN - DWB	REVISIED -
DATE = 9/21/2015	CHECKED - SLD	REVISIED -
	DATE - 8/6/2015	REVISIED -

**STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION**

CROSS SECTIONS	
SCALE: 10'H:5'V	SHEET 10 OF 10 SHEETS
STA. 827+50.00 TO STA. 828+50.00	

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
870	534X-B	DUPAGE	66	66
CONTRACT NO. 60V29			ILLINOIS FED. AID PROJECT	

EFK Moen, LLC
Civil Engineering Design