

F.A.U. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
160	14-00030-00-RS	LAKE	213	1
		ILLINOIS	CONTRACT NO. 61C68	

STATE OF ILLINOIS  
DEPARTMENT OF TRANSPORTATION

DIVISION OF HIGHWAYS  
**PLANS FOR PROPOSED  
FEDERAL AID HIGHWAY**

FAU ROUTE 160 (BECK ROAD)  
FROM GRASS LAKE ROAD TO SAND LAKE ROAD  
RESURFACING AND ROAD RECONSTRUCTION  
SECTION 14-00030-00-RS  
PROJECT M-4003(646)  
VILLAGE OF LINDENHURST  
LAKE COUNTY

FOR INDEX OF SHEETS AND LIST OF  
HIGHWAY STANDARDS, SEE SHEET NO. 2



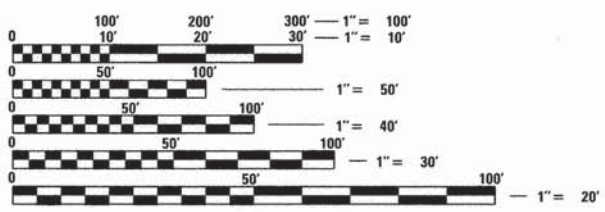
END IMPROVEMENT  
STA 101+50.40



BEGIN IMPROVEMENT  
STA 5+68.03

LOCATION MAP  
GROSS LENGTH = 9,715 FT. = 1.84 MILE  
NET LENGTH = 9,582 FT. = 1.81 MILE

**TRAFFIC DATA:**  
BECK ROAD = MAJOR COLLECTOR  
2014 ADT = 4975  
SPEED LIMIT = 25 MPH



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

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

CONTRACT NO. 61C68

STATE OF ILLINOIS  
DEPARTMENT OF TRANSPORTATION  
DIVISION OF HIGHWAYS

APPROVED January 19 2016  
*Michael Burn*  
VILLAGE OF LINDENHURST

PASSED January 28 2016  
*Christopher Holt*  
CHRISTOPHER HOLT  
DISTRICT ONE ENGINEER OF LOCAL ROADS AND STREETS

RELEASING FOR BID  
BASED ON LIMITED  
REVIEW January 29 2016  
*Kevin L. Belgrave*  
DEPUTY DIRECTOR OF HIGHWAYS, REGION ONE ENGINEER

SIGNED: Kevin L. Belgrave  
KEVIN L. BELGRAVE, EXP. 11/30/2017

DATE: JANUARY 25, 2016

PRINTED BY THE AUTHORITY  
OF THE STATE OF ILLINOIS

FEDERAL AID PROGRAM ENGINEER: FAWAD AQUEEL, PE, PTOE, (847) 705-4021 SCHAUMBURG, IL

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## HIGHWAY STANDARDS

000001-06	STANDARD SYMBOLS, ABBREVIATIONS AND PATTERNS
001006	DECIMAL OF AN INCH AND OF A FOOT
280001-07	TEMPORARY EROSION CONTROL SYSTEMS
424001-08	PERPENDICULAR CURB RAMPS FOR SIDEWALKS
424016-02	MID-BLOCK CURB RAMPS FOR SIDEWALKS
424026-01	ENTRANCE / ALLEY PEDESTRIAN CROSSINGS
442201-03	CLASS C AND D PATCHES
601001-05	PIPE UNDERDRAINS
602001-02	CATCH BASIN TYPE A
602301-04	INLET - TYPE A
602401-03	MANHOLE TYPE A
602406-07	MANHOLE TYPE A 6' (1.8 m) DIAMETER
602601-04	PRECAST REINFORCED CONCRETE FLAT SLAB TOP
602701-02	MANHOLE STEPS
604001-04	FRAME AND LIDS TYPE 1
604051-04	FRAME AND GRATE TYPE 11
606001-06	CONCRETE CURB TYPE B AND COMBINATION CONCRETE CURB AND GUTTER
701001-02	OFF-RD OPERATIONS, 2L, 2W, MORE THAN 15' (4.5m) AWAY
701006-05	OFF-RD OPERATIONS, 2L, 2W, 15' (4.5m) TO 24" (600mm) FROM PAVEMENT EDGE
701301-04	LANE CLOSURE, 2L, 2W, SHORT TIME OPERATIONS
701311-03	LANE CLOSURE 2L, 2W MOVING OPERATIONS - DAY ONLY
701501-06	URBAN LANE CLOSURE, 2L, 2W, UNDIVIDED
701801-06	SIDEWALK, CORNER OR CROSWALK CLOSURE
701901-05	TRAFFIC CONTROL DEVICES
720001-01	SIGN PANEL MOUNTING DETAILS
720006-04	SIGN PANEL ERECTION DETAILS
728001-01	TELESCOPING STEEL SIGN SUPPORT
731001-01	BASE FOR TELESCOPING STEEL SIGN SUPPORT
780001-05	TYPICAL PAVEMENT MARKINGS

## DISTRICT 1 STANDARDS

BD0156-07 (BD-01)	DRIVEWAY DETAILS - DISTANCE BETWEEN R.O.W. AND FACE OF CURB & EDGE OF SHOULDER > = 15' (4.5m)
BD400-02 (BD-02)	DRIVEWAY DETAILS - DISTANCE BETWEEN R.O.W. AND FACE OF CURB < 15' (4.5m)
BD400-05 BD32	BUTT JOINT AND HMA TAPER DETAILS
TC-10	TRAFFIC CONTROL AND PROTECTION FOR SIDE ROADS, INTERSECTIONS, AND DRIVEWAYS
TC-13	DISTRICT ONE TYPICAL PAVEMENT MARKINGS
TC-16	PAVEMENT MARKING LETTERS AND SYMBOLS FOR TRAFFIC STAGING
TC-21	DETOUR SIGNING FOR CLOSING STATE HIGHWAYS
TC-22	ARTERIAL ROAD INFORMATION SIGN

## GENERAL NOTES

1. ALL CONSTRUCTION SHALL BE DONE ACCORDING TO THE ILLINOIS DEPARTMENT OF TRANSPORTATION "STANDARD SPECIFICATIONS FOR ROAD AND BRIDGE CONSTRUCTION" LATEST EDITION, THE "SUPPLEMENTAL SPECIFICATIONS AND RECURRING SPECIAL PROVISIONS" LATEST EDITION, THE "STANDARD SPECIFICATIONS FOR WATER AND SEWER MAIN CONSTRUCTION IN ILLINOIS" LATEST EDITION, THE DETAILS IN THESE PLANS, THE CONTRACT DOCUMENTS, ALL APPLICABLE REQUIREMENTS OF THE ILLINOIS DEPARTMENT OF TRANSPORTATION, THE IEPA AND ORDINANCES OF AUTHORITIES HAVING JURISDICTION AND ALL ADDENDA THERETO.
2. EASEMENTS FOR THE EXISTING UTILITIES, BOTH PUBLIC AND PRIVATE AND UTILITIES WITHIN PUBLIC RIGHTS-OF-WAY ARE SHOWN ON THE PLANS ACCORDING TO AVAILABLE RECORDS. THE CONTRACTOR SHALL BE RESPONSIBLE FOR DETERMINING THE EXACT LOCATION IN THE FIELD OF THESE UTILITY LINES AND THEIR PROTECTION FROM DAMAGE DUE TO CONSTRUCTION OPERATIONS. IF EXISTING UTILITY LINES OF ANY NATURE ARE ENCOUNTERED WHICH CONFLICT WITH NEW CONSTRUCTION, THE CONTRACTOR SHALL NOTIFY THE ENGINEER SO THAT THE CONFLICT MAY BE RESOLVED.
3. THE CONTRACTOR SHALL VERIFY ALL DIMENSIONS AND EXISTING CONDITIONS AFFECTING THEIR WORK WITH THE ACTUAL CONDITIONS AT THE JOB SITE PRIOR TO ORDERING MATERIALS. IN ADDITION, THE CONTRACTOR MUST VERIFY THE LINE AND GRADES. IF THERE ARE ANY DISCREPANCIES FROM WHAT IS SHOWN ON THE CONSTRUCTION PLANS, STANDARD SPECIFICATIONS AND/OR SPECIAL DETAILS, THE CONTRACTOR SHALL SECURE WRITTEN INSTRUCTION FROM THE ENGINEER PRIOR TO PROCEEDING WITH ANY PART OF THE WORK AFFECTED BY OMISSION OR DISCREPANCIES. FAILING TO SECURE SUCH INSTRUCTION, THE CONTRACTOR WILL BE CONSIDERED TO HAVE PROCEEDED AT HIS/HER OWN RISK AND EXPENSE AND NO ADDITIONAL COMPENSATION WILL BE PROVIDED FOR ANY COSTS INCURRED.
4. ALL PAVEMENT DIMENSIONS ARE SHOWN TO EDGE OF PAVEMENT UNLESS OTHERWISE NOTED.
5. THE CONTRACTOR SHALL NOTIFY THE ENGINEER AT LEAST 72 HOURS PRIOR TO BEGINNING WORK.
6. IF DURING CONSTRUCTION THE CONTRACTOR ENCOUNTERS OR OTHERWISE BECOMES AWARE OF ANY SEWERS OR UNDERDRAINS OTHER THAN THOSE SHOWN ON THE PLANS, HE/SHE SHALL INFORM THE ENGINEER, WHO SHALL DIRECT THE WORK NECESSARY TO MAINTAIN OR REPLACE THE FACILITIES IN SERVICE AND TO PROTECT THEM FROM DAMAGE DURING CONSTRUCTION IF MAINTAINED. EXISTING FACILITIES TO BE MAINTAINED THAT ARE DAMAGED BECAUSE OF NON-COMPLIANCE WITH THIS PROVISION SHALL BE REPLACED AT THE CONTRACTOR'S OWN EXPENSE.

### UTILITY NOTES

1. UNDERGROUND WORK SHALL INCLUDE TRENCHING, DEWATERING, INSTALLATION OF PIPE, CASTINGS, STRUCTURES, BACKFILLING OF TRENCHES AND COMPACTION, AND TESTING AS SHOWN ON THE CONSTRUCTION PLANS. FITTINGS AND ACCESSORIES NECESSARY TO COMPLETE THE WORK MAY NOT BE SPECIFIED BUT SHALL BE CONSIDERED AS INCLUDED IN THE COST OF THE ITEM OF WORK. ALL SEWER SHALL BE INSTALLED USING A LASER AND BEGIN AT THE DOWNSTREAM END.
2. MACHINE CORE ALL CONNECTIONS TO EXISTING STRUCTURES USING A CORE DRILL. HAMMERING OR SAWING OF STRUCTURES WILL NOT BE ALLOWED.
3. ALL CONNECTIONS TO EXISTING OR DISSIMILAR STORM/SANITARY LINES SHALL BE DONE WITH STAINLESS STEEL NON-SHEAR COUPLINGS.
4. STONE BEDDING AND BACKFILL SHALL BE OMITTED FOR A DISTANCE OF 15 FEET UP AND DOWNSTREAM OF SEWERS DRAINING TO OR FROM PONDS OR STREAMS. THE REPLACED BEDDING SHALL BE SILTY CLAY SOIL MECHANICALLY COMPACTED TO 90% MODIFIED PROCTOR DENSITY. THE USE OF PERMEABLE SOILS WILL NOT BE PERMITTED.
5. ALL BYPASS CHANNELS, MUST BE CONSTRUCTED SO THAT CHANNEL FLOWS WILL NOT CAUSE EROSION OF EXCAVATED MATERIAL. IN EACH CASE A SEDIMENTATION BASIN MUST BE CONSTRUCTED SO AS TO ALLOW THE SEDIMENT TO SETTLE PRIOR TO THE DOWNSTREAM OUTLET OF THE PROJECT AREA.
6. PUMPS MAY BE USED AS BYPASS DEVICES, BUT IN NO CASE WILL THE WATER BE DIVERTED OUTSIDE THE PROJECT LIMIT. ALL PUMPED WATER SHALL BE FREE OF SILT. PUMPING MAY REQUIRE THE USE OF A SEDIMENT CONTAINMENT FILTER BAG AND OTHER SUPPLEMENTAL SEDIMENT CONTROL MEASURES.
7. CONCRETE WASHOUT FACILITIES SHALL BE MADE AVAILABLE IF NEEDED, AND PROPERLY MAINTAINED THROUGHOUT THE PROJECT.
8. PROPERLY MANAGE ALL MATERIAL STORAGE AREAS, PORTABLE TOILETS, AND EQUIPMENT FUELING, CLEANING, AND MAINTENANCE AREAS TO ENSURE THESE AREAS ARE FREE OF SPILLS, LEAKS, OR OTHER POTENTIAL POLLUTANTS.
9. WASTE, CONSTRUCTION DEBRIS, AND BUILDING MATERIALS SHALL BE COLLECTED AND PLACED IN APPROVED RECEPTACLES.

### PROJECT SPECIFIC NOTES

1. THE CONTRACTOR SHALL PROVIDE AS-BUILT DRAWINGS THAT INCLUDE; CRITICAL SPOT GRADES SUCH AS OVERFLOW ELEVATIONS, SPOT ELEVATIONS NEAR ENTRANCES, SPOT ELEVATIONS ALONG THE DESIGNATED ADA ROUTE, SUFFICIENT INFORMATION SUCH THAT THE ENGINEER MAY VERIFY DETENTION VOLUMES, RIM AND INVERT ELEVATIONS OF ALL SEWERS, RIM AND TOP OF PIPE ELEVATIONS OF ALL WATER MAIN, LOCATIONS OF ALL INSTALLED UNDERGROUND UTILITIES, LOCATIONS OF ALL BURIED BENDS AND FITTINGS AND ALL FIELD CHANGES FROM THE APPROVED DRAWINGS.
2. THE SEWER CONTRACTOR SHALL BE REQUIRED TO BE LICENSED AND BONDED WITH THE VILLAGE OF LINDENHURST BEFORE WORK IS STARTED.
3. CONTRACTOR SHALL NOTIFY THE VILLAGE OF LINDENHURST (847-356-8252) AND THE PROJECT ENGINEER (847-478-9700) AT LEAST 3 WORKING DAYS PRIOR TO BEGINNING ANY WORK ON THIS PROJECT.
4. ALL ELEVATIONS ARE ON NGVD 29/NAVD 88 VERTICAL DATUM.
5. THE CONTRACTOR SHALL BE RESPONSIBLE FOR THE INSTALLATION AND MAINTENANCE OF ALL TRAFFIC CONTROL TO ADEQUATELY INFORM AND PROTECT THE PUBLIC OF ALL CONSTRUCTION OPERATIONS
6. THE CONTRACTOR IS RESPONSIBLE FOR PROPER INSTALLATION AND MAINTENANCE OF ALL EROSION CONTROL DEVICES AND SHALL PROVIDE QUALIFIED PERSONNEL TO INSPECT DISTURBED AREAS OF THE CONSTRUCTION SITE THAT HAVE NOT BEEN FINALLY STABILIZED, STRUCTURAL CONTROL MEASURES, AND LOCATIONS WHERE VEHICLES ENTER OR EXIT THE SITE AT LEAST ONCE EVERY 7 CALENDAR DAYS AND WITHIN 24 HOURS OF A STORM THAT IS OF 0.5 INCHES OR GREATER OR EQUIVALENT SNOW FALL.
7. STOCKPILING MATERIAL WITHIN THE 100 YEAR FLOOD PLAIN AND OR THE FLOODWAY IS STRICTLY PROHIBITED
8. PRIOR TO PLACEMENT OF FABRIC AND STONE, THE SUBGRADE SHALL BE PROOF-ROLLED IN THE PRESENCE OF THE ENGINEER. PROOF-ROLLING SHALL BE DONE USING A THREE AXLE DUMP TRUCK TOGETHER WITH LOAD WEIGHING AT LEAST TWENTY-FIVE (25) TONS. THE LOAD SHALL BE UNIFORMLY PLACED IN THE DUMP BODY. ALL DEFICIENCIES SHALL BE REPAIRED AND RE-PROOF-ROLLED UNTIL FOUND ACCEPTABLE TO THE ENGINEER.
9. CRUSHED CONCRETE IS NOT PERMITTED FOR USE ON THE PROJECT UNLESS PRIOR WRITTEN NOTICE IS GIVEN BY THE ENGINEER.
10. ALL STONE USED ON THE PROJECT SHALL BE CRUSHED UNLESS SPECIFICALLY NOTED OTHERWISE.
11. ALL CONNECTIONS TO EXISTING STORM MANHOLES SHALL BE INSTALLED WITH A NEOPRENE BOOT SECURED WITH DOUBLE STAINLESS STEEL STRAPS MEETING THE REQUIREMENTS OF ASTM C-923.
12. ALL CONCRETE SHALL HAVE A LIGHT BROOM FINISH APPLIED WITHIN 1 HOUR OF FINAL STRIKING.
13. ALL CONCRETE SHALL HAVE A WHITE, IDOT TYPE 3 CURING COMPOUND APPLIED TO THE SURFACE WITHIN 1 HOUR OF FINAL STRIKING AT THE MANUFACTURER RECOMMENDED APPLICATION RATE.
14. 1/2" THICK PRE-MOLDED FIBER EXPANSION JOINTS WITH 2 , 3/4" x 16" PLAIN ROUND, STEEL DOWEL BARS SHALL BE INSTALLED IN ALL CURBS AT (45') FIFTY FOOT INTERVALS AND AT ALL P.C.'S, P.T.'S AND CURB RETURNS. ALTERNATE ENDS OF THE DOWEL BARS SHALL BE GREASED AND FITTED WITH METAL EXPANSION TUBES. ALL EXPANSION JOINTS MUST BE FREE OF CONCRETE FOR FULL DEPTH. CONTRACTION JOINTS SHALL BE TOOLED AT 15' INTERVALS.
15. UNLESS OTHERWISE NOTED ON THE PLANS WHENEVER NEW CONCRETE ABUTS EXISTING/ OR NEW CONCRETE SET A 1/2" THICK PRE-MOLDED FIBER EXPANSION JOINT AND DOWEL WITH SMOOTH 12" #4 BARS @ 24" O.C. THIS INCLUDES CONCRETE POURED ADJACENT TO EXISTING SIDEWALKS, CURBS AND BUILDING. THE DOWEL BARS SHOULD BE 4" INTO EXISTING CONCRETE WITH 8" EXTENDING INTO NEW CONCRETE.
16. ALL DOWEL BARS AND TIE BARS SHALL BE EPOXY COATED UNLESS NOTED OTHERWISE.
17. SPREAD PULVERIZED TOPSOIL ON ALL DISTURBED AREAS AND PROPOSED GREEN AREAS. TOPSOIL SHALL COMPLY WITH REQUIREMENTS OF ARTICLE 1081.05.

FILE NAME = 4477-GENNOTE.dgn	USER NAME = mcolemo	DESIGNED -	REVISED -	<b>STATE OF ILLINOIS DEPARTMENT OF TRANSPORTATION</b>	<b>GENERAL NOTES</b>				F.A.U. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.		
GHA* 4477.025	PLOT SCALE = 1:1	DRAWN -	REVISED -		SCALE:	SHEET	OF	SHEETS	STA.	TO STA.	160	14-00030-00-RS	LAKE	213	2
Default	PLOT DATE = 2/8/2016	CHECKED -	REVISED -						CONTRACT NO. 61C68						
		DATE -	REVISED -						ILLINOIS FED. AID PROJECT						

CODE NO.	ITEM	UNIT	TOTAL QUANTITY	CONSTRUCTION CODE				
				80% FEDERAL 20% LOCAL	80% FEDERAL 20% LOCAL	80% FEDERAL 20% LOCAL	80% FEDERAL 20% LOCAL	80% FEDERAL 20% LOCAL
				ROADWAY RECONSTRUCTION 0004 URBAN	EROSION CONTROL 0020 URBAN	SAFETY 0021 URBAN	LANDSCAPING 0031 URBAN	DRAINAGE IMPROVEMENTS 0044 URBAN
20100110	TREE REMOVAL ( 6 TO 15 UNITS DIAMETER)	UNIT	497				497	
20100210	TREE REMOVAL ( OVER 15 UNITS DIAMETER)	UNIT	315				315	
20200100	EARTH EXCAVATION	CU YD	2,050	2,050				
20201200	REMOVAL AND DISPOSAL OF UNSUITABLE MATERIAL	CU YD	1,130	1,130				
20400800	FURNISHED EXCAVATION	CU YD	520	520				
20800150	TRENCH BACKFILL	CU YD	1,191					1,191
21001000	GEOTECHNICAL FABRIC FOR GROUND STABILIZATION	SQ YD	19,686	19,686				
21101505	TOPSOIL EXCAVATION AND PLACEMENT	CU YD	2,390	2,390				
25000400	NITROGEN FERTILIZER NUTRIENT	POUND	200				200	
25000600	POTASSIUM FERTILIZER NUTRIENT	POUND	200				200	
25200100	SODDING	SQ YD	15,402				15,402	
25200200	SUPPLEMENTAL WATERING	UNIT	231				231	
28000400	PERIMETER EROSION BARRIER	FOOT	11,974		11,974			

• SPECIALTY ITEM

GHA GEWALT HAMILTON ASSOCIATES, INC.

FILE NAME = 4477-500.dgn GHA* 4477.025 S00 1	USER NAME = mcoleman DRAWN - ZCW CHECKED - KLB DATE -	DESIGNED - MAC REVISED - REVISED - REVISED -	STATE OF ILLINOIS DEPARTMENT OF TRANSPORTATION	SUMMARY OF QUANTITIES SCALE: N/A SHEET 1 OF 7 SHEETS STA. TO STA.	F.A.U. RTE. 160 SECTION 14-00030-00-RS COUNTY LAKE TOTAL SHEETS 213 SHEET NO. 3 CONTRACT NO. 61C68 ILLINOIS FED. AID PROJECT
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CODE NO.	ITEM	UNIT	TOTAL QUANTITY	CONSTRUCTION CODE				
				80% FEDERAL 20% LOCAL	80% FEDERAL 20% LOCAL	80% FEDERAL 20% LOCAL	80% FEDERAL 20% LOCAL	80% FEDERAL 20% LOCAL
				ROADWAY RECONSTRUCTION 0004 URBAN	EROSION CONTROL 0020 URBAN	SAFETY 0021 URBAN	LANDSCAPING 0031 URBAN	DRAINAGE IMPROVEMENTS 0044 URBAN
28000510	INLET FILTERS	EACH	152		152			
30300001	AGGREGATE SUBGRADE IMPROVEMENT	CU YD	895	895				
30300112	AGGREGATE SUBGRADE IMPROVEMENT 12"	SO YD	19,686	19,686				
35101600	AGGREGATE BASE COURSE, TYPE B 4"	SO YD	9,122	9,122				
35800100	PREPARATION OF BASE	SO YD	30,207.0	30,207				
40600290	BITUMINOUS MATERIALS (TACK COAT)	POUND	1,691	1,691				
40600400	MIXTURE FOR CRACKS, JOINTS, AND FLANGEWAYS	TON	15.0	15				
40600982	HOT-MIX ASPHALT SURFACE REMOVAL - BUTT JOINT	SO YD	61.0	61				
40603080	HOT-MIX ASPHALT BINDER COURSE, IL-19.0, N50	TON	5,059	5,059				
40603335	HOT-MIX ASPHALT SURFACE COURSE, MIX "D", N50	TON	3,373	3,373				
40700100	BITUMINOUS MATERIAL (TACK COAT)	POUND	6,775	6,775				
42001300	PROTECTIVE COAT	SO YD	7,751			7,751		
42300300	PORTLAND CEMENT CONCRETE DRIVEWAY PAVEMENT, 7 INCH	SO YD	1,427	1,427				
42400200	PORTLAND CEMENT CONCRETE SIDEWALK 5 INCH	SO FT	48,905			48,905		

• SPECIALTY ITEM



FILE NAME = 4477-S00.dgn  
 GHA\* 4477.025  
 S00 2

USER NAME = mooleman  
 PLOT SCALE = 1:20  
 PLOT DATE = 1/26/2016

DESIGNED - MAC  
 DRAWN - ZCW  
 CHECKED - KLB  
 DATE -

REVISED -  
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 REVISED -

STATE OF ILLINOIS  
 DEPARTMENT OF TRANSPORTATION

SUMMARY OF QUANTITIES

SCALE: N/A SHEET 2 OF 7 SHEETS STA. TO STA.

F.A.U. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
160	14-00030-00-RS	LAKE	213	4
CONTRACT NO. 61C68			ILLINOIS FED. AID PROJECT	

CODE NO.	ITEM	UNIT	TOTAL QUANTITY	CONSTRUCTION CODE				
				80% FEDERAL 20% LOCAL	80% FEDERAL 20% LOCAL	80% FEDERAL 20% LOCAL	80% FEDERAL 20% LOCAL	80% FEDERAL 20% LOCAL
				ROADWAY RECONSTRUCTION 0004 URBAN	EROSION CONTROL 0020 URBAN	SAFETY 0021 URBAN	LANDSCAPING 0031 URBAN	DRAINAGE IMPROVEMENTS 0044 URBAN
42400400	PORTLAND CEMENT CONCRETE SIDEWALK 7 INCH	SQ FT	8,012			8,012		
42400800	DETECTABLE WARNINGS	SQ FT	466			466		
44000100	PAVEMENT REMOVAL	SQ YD	26,782	26,782				
44000169	HOT-MIX ASPHALT SURFACE REMOVAL, 5"	SQ YD	3,757	3,757				
44000200	DRIVEWAY PAVEMENT REMOVAL	SQ YD	3,636	3,636				
44000500	COMBINATION CURB AND GUTTER REMOVAL	FOOT	12,871	12,871				
44000600	SIDEWALK REMOVAL	SQ FT	9,800			9,800		
44201721	CLASS D PATCHES, TYPE III, 6 INCH	SQ YD	21					21
550A0050	STORM SEWERS, CLASS A, TYPE 1 12"	FOOT	863					863
550A0070	STORM SEWERS, CLASS A, TYPE 1 15"	FOOT	244					244
550A0340	STORM SEWERS, CLASS A, TYPE 2 12"	FOOT	970					970
550A0360	STORM SEWERS, CLASS A, TYPE 2 15"	FOOT	868					868
550A0380	STORM SEWERS, CLASS A, TYPE 2 18"	FOOT	241					241
550A0410	STORM SEWERS, CLASS A, TYPE 2 24"	FOOT	279					279

FILE NAME = 4477-S00.dgn  
 GHA\* 4477.025  
 S00 3

USER NAME = moolaman  
 PLOT SCALE = 1/28  
 PLOT DATE = 1/25/2016

DESIGNED - MAC  
 DRAWN - ZCW  
 CHECKED - KLB  
 DATE -

REVISED -  
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**STATE OF ILLINOIS  
 DEPARTMENT OF TRANSPORTATION**

**SUMMARY OF QUANTITIES**

SCALE: N/A SHEET 3 OF 7 SHEETS STA. TO STA.

F.A.U. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
160	14-00030-00-RS	LAKE	213	5
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				80% FEDERAL 20% LOCAL	80% FEDERAL 20% LOCAL	80% FEDERAL 20% LOCAL	80% FEDERAL 20% LOCAL	80% FEDERAL 20% LOCAL
				ROADWAY RECONSTRUCTION 0004 URBAN	EROSION CONTROL 0020 URBAN	SAFETY 0021 URBAN	LANDSCAPING 0031 URBAN	DRAINAGE IMPROVEMENTS 0044 URBAN
55100400	STORM SEWER REMOVAL 10"	FOOT	161					161
55100500	STORM SEWER REMOVAL 12"	FOOT	751					751
55100700	STORM SEWER REMOVAL 15"	FOOT	316					316
55100900	STORM SEWER REMOVAL 18"	FOOT	288					288
55101200	STORM SEWER REMOVAL 24"	FOOT	214					214
60107600	PIPE UNDERDRAINS 4"	FOOT	11,283	11,283				
60108204	PIPE UNDERDRAINS, TYPE 2, 4"	FOOT	465	465				
60201105	CATCH BASINS, TYPE A, 4' -DIAMETER, TYPE 11 FRAME AND GRATE	EACH	27					27
60205605	CATCH BASINS, TYPE A, 5' -DIAMETER	EACH	1					1
60218400	MANHOLES, TYPE A, 4' -DIAMETER, TYPE 1 FRAME, CLOSED LID	EACH	6					6
60219300	MANHOLES, TYPE A, 4' -DIAMETER, TYPE 11 FRAME AND GRATE	EACH	4					4
60221100	MANHOLES, TYPE A, 5' -DIAMETER, TYPE 1 FRAME, CLOSED LID	EACH	2					2
60222000	MANHOLES, TYPE A, 5' -DIAMETER, TYPE 11 FRAME AND GRATE	EACH	3					3
60224020	MANHOLES, TYPE A, 6' -DIAMETER, TYPE 11 FRAME AND GRATE	EACH	1					1

FILE NAME = 4477-S00.dgn  
GHA\* 4477.025  
S00 4

USER NAME = mooleman  
PLOT SCALE = 1:20  
PLOT DATE = 1/25/2016

DESIGNED - MAC  
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DATE -

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**STATE OF ILLINOIS  
DEPARTMENT OF TRANSPORTATION**

**SUMMARY OF QUANTITIES**

SCALE: N/A SHEET 4 OF 7 SHEETS STA. TO STA.

F.A.U. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
160	14-00030-00-RS	LAKE	213	6
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				ROADWAY RECONSTRUCTION 0004 URBAN	EROSION CONTROL 0020 URBAN	SAFETY 0021 URBAN	LANDSCAPING 0031 URBAN	DRAINAGE IMPROVEMENTS 0044 URBAN
60236800	INLETS, TYPE A, TYPE 11 FRAME AND GRATE	EACH	30					30
60300105	FRAMES AND GRATES TO BE ADJUSTED	EACH	30					30
60300305	FRAMES AND LIDS TO BE ADJUSTED	EACH	5.0	5				
60500040	REMOVING MANHOLES	EACH	8					8
60500050	REMOVING CATCH BASINS	EACH	17.0					17
60500060	REMOVING INLETS	EACH	11					11
60603800	COMBINATION CONCRETE CURB AND GUTTER, TYPE B-6.12	FOOT	11.560	11.560				
60605000	COMBINATION CONCRETE CURB AND GUTTER, TYPE B-6.24	FOOT	1,507	1,507				
60608562	COMBINATION CONCRETE CURB AND GUTTER, TYPE M-4.12	FOOT	93.0	93				
67100100	MOBILIZATION	L SUM	1	1				
72000100	SIGN PANEL - TYPE 1	SQ FT	125			125		
72400500	RELOCATE SIGN PANEL ASSEMBLY - TYPE A	EACH	5.0			5		
72400600	RELOCATE SIGN PANEL ASSEMBLY - TYPE B	EACH	3			3		
72400710	RELOCATE SIGN PANEL - TYPE 1	SQ FT	153			153		
72900200	METAL POST - TYPE B	FOOT	350			350		

• SPECIALTY ITEM

GHA GEWALT HAMILTON ASSOCIATES, INC.

FILE NAME = 4477-S00.dgn GHA* 4477.025 S00 5	USER NAME = mcolemar	DESIGNED - MAC	REVISED -	<b>STATE OF ILLINOIS DEPARTMENT OF TRANSPORTATION</b>	<b>SUMMARY OF QUANTITIES</b>			F.A.U. RTE. 160	SECTION 14-00030-00-RS	COUNTY LAKE	TOTAL SHEETS 213	SHEET NO. 7
	PLOT SCALE = 1:20	DRAWN - ZCW	REVISED -		SCALE: N/A	SHEET 5 OF 7 SHEETS	STA. TO STA.	CONTRACT NO. 61C68		ILLINOIS FED. AID PROJECT		
	PLOT DATE = 1/25/2016	CHECKED - KLB	REVISED -									
		DATE -	REVISED -									

CODE NO.	ITEM	UNIT	TOTAL QUANTITY	CONSTRUCTION CODE				
				80% FEDERAL 20% LOCAL	80% FEDERAL 20% LOCAL	80% FEDERAL 20% LOCAL	80% FEDERAL 20% LOCAL	80% FEDERAL 20% LOCAL
				ROADWAY RECONSTRUCTION 0004 URBAN	EROSION CONTROL 0020 URBAN	SAFETY 0021 URBAN	LANDSCAPING 0031 URBAN	DRAINAGE IMPROVEMENTS 0044 URBAN
• 78000100	THERMOPLASTIC PAVEMENT MARKING - LETTERS AND SYMBOLS	SO FT	42			42		
• 78000200	THERMOPLASTIC PAVEMENT MARKING - LINE 4"	FOOT	17,829			17,829		
• 78000400	THERMOPLASTIC PAVEMENT MARKING - LINE 6"	FOOT	1,932			1,932		
• 78000600	THERMOPLASTIC PAVEMENT MARKING - LINE 12"	FOOT	94			94		
• 78000650	THERMOPLASTIC PAVEMENT MARKING - LINE 24"	FOOT	434			434		
• 78001100	PAINT PAVEMENT MARKING - LETTERS AND SYMBOLS	SO FT	10.0			10		
• 78001110	PAINT PAVEMENT MARKING - LINE 4"	FOOT	280			280		
78300100	PAVEMENT MARKING REMOVAL	SO FT	65			65		
X0322463	CONNECTION TO EXISTING SEWER	EACH	1					1
X0327301	RELOCATE EXISTING MAILBOX	EACH	122	122				
X4021000	TEMPORARY ACCESS (PRIVATE ENTRANCE)	EACH	132	132				

• SPECIALTY ITEM



FILE NAME = 4477-S00.dgn  
GHA\* 4477.025  
S00 6

USER NAME = mooleman  
DESIGNED - MAC  
DRAWN - ZCW  
CHECKED - KLB  
DATE -  
PLOT SCALE = 1:20  
PLOT DATE = 1/25/2016

DESIGNED - MAC  
DRAWN - ZCW  
CHECKED - KLB  
DATE -

REVISED -  
REVISED -  
REVISED -  
REVISED -

STATE OF ILLINOIS  
DEPARTMENT OF TRANSPORTATION

SUMMARY OF QUANTITIES

SCALE: N/A SHEET 6 OF 7 SHEETS STA. TO STA.

F.A.U. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
160	14-00030-00-RS	LAKE	213	8
CONTRACT NO. 61C68				
ILLINOIS FED. AID PROJECT				



CODE NO.	ITEM	UNIT	TOTAL QUANTITY	CONSTRUCTION CODE				
				80% FEDERAL 20% LOCAL	80% FEDERAL 20% LOCAL	80% FEDERAL 20% LOCAL	80% FEDERAL 20% LOCAL	80% FEDERAL 20% LOCAL
				ROADWAY RECONSTRUCTION 0004 URBAN	EROSION CONTROL 0020 URBAN	SAFETY 0021 URBAN	LANDSCAPING 0031 URBAN	DRAINAGE IMPROVEMENTS 0044 URBAN
X4022000	TEMPORARY ACCESS (COMMERCIAL ENTRANCE)	EACH	3	3				
X4023000	TEMPORARY ACCESS (ROAD)	EACH	20	20				
X7010216	TRAFFIC CONTROL AND PROTECTION, (SPECIAL)	L SUM	1	1				
XX000406	BRICK PAVER REMOVAL AND REPLACEMENT	SO. FT.	234	234				
XX001877	SUMP PUMP LINE CONNECTION	EACH	50					50
XX003338	TEST HOLE	EACH	20	20				
Z0004522	HOT-MIX ASPHALT DRIVEWAY PAVEMENT, 6"	SO YD	1,040	1,040				
Z0004530	HOT-MIX ASPHALT DRIVEWAY PAVEMENT, 8"	SO YD	331				331	
52200800	SEGMENTAL CONCRETE BLOCK WALL	SO FT	240				240	
Z0030850	TEMPORARY INFORMATION SIGNING	SO FT	51.4	51.4				
Z0076600	TRAINEES	HOUR	500					
Z0076604	TRAINEES TRAINING PROGRAM GRADUATE	HOUR	500					

• SPECIALTY ITEM    △ CONSTRUCTION CODE 0042

**GHA** GEWALT HAMILTON  
 ASSOCIATES, INC.

FILE NAME = 4477-800.dgn  
 GHA# 4477.025  
 800 7

USER NAME = mcoleman  
 PLOT SCALE = 1:20  
 PLOT DATE = 2/8/2016

DESIGNED - MAC  
 DRAWN - ZCW  
 CHECKED - KLB  
 DATE -

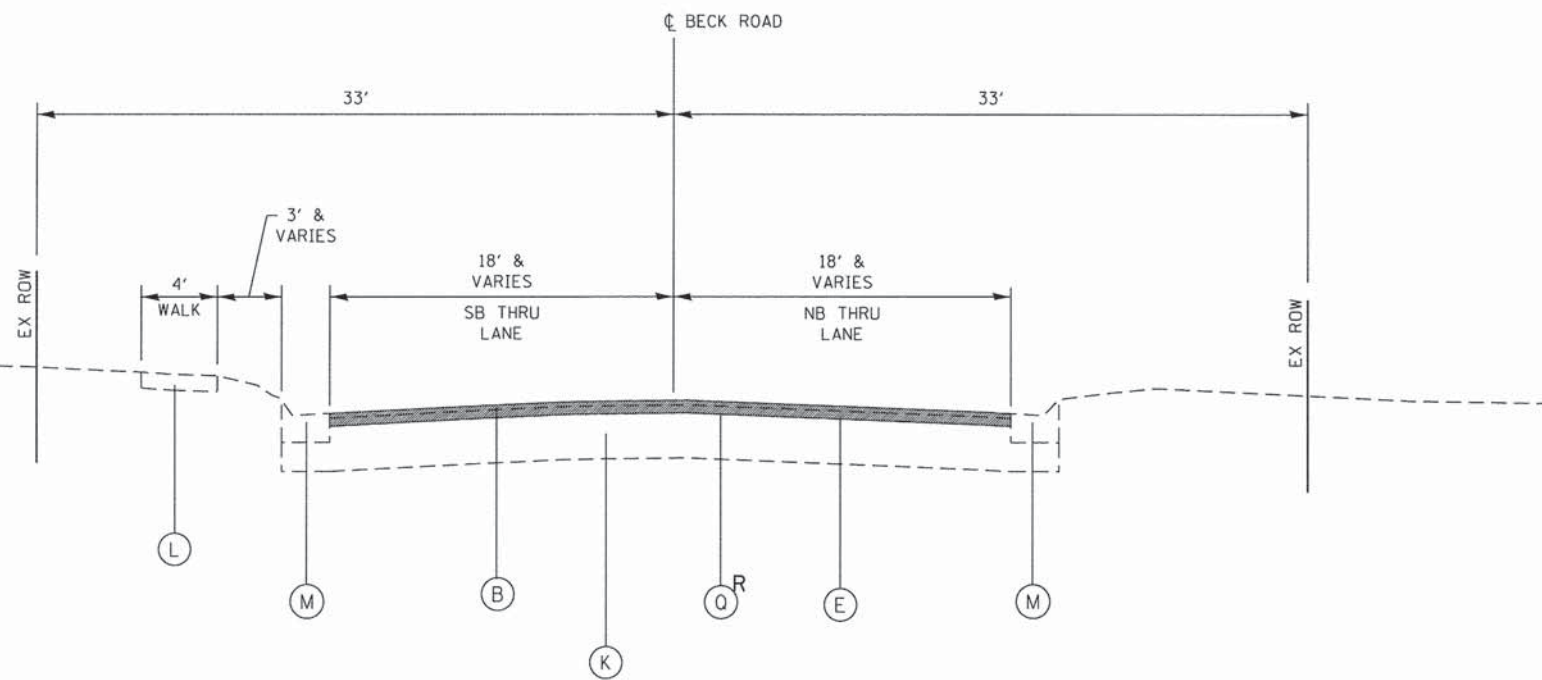
REVISED -  
 REVISED -  
 REVISED -  
 REVISED -

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

**SUMMARY OF QUANTITIES**

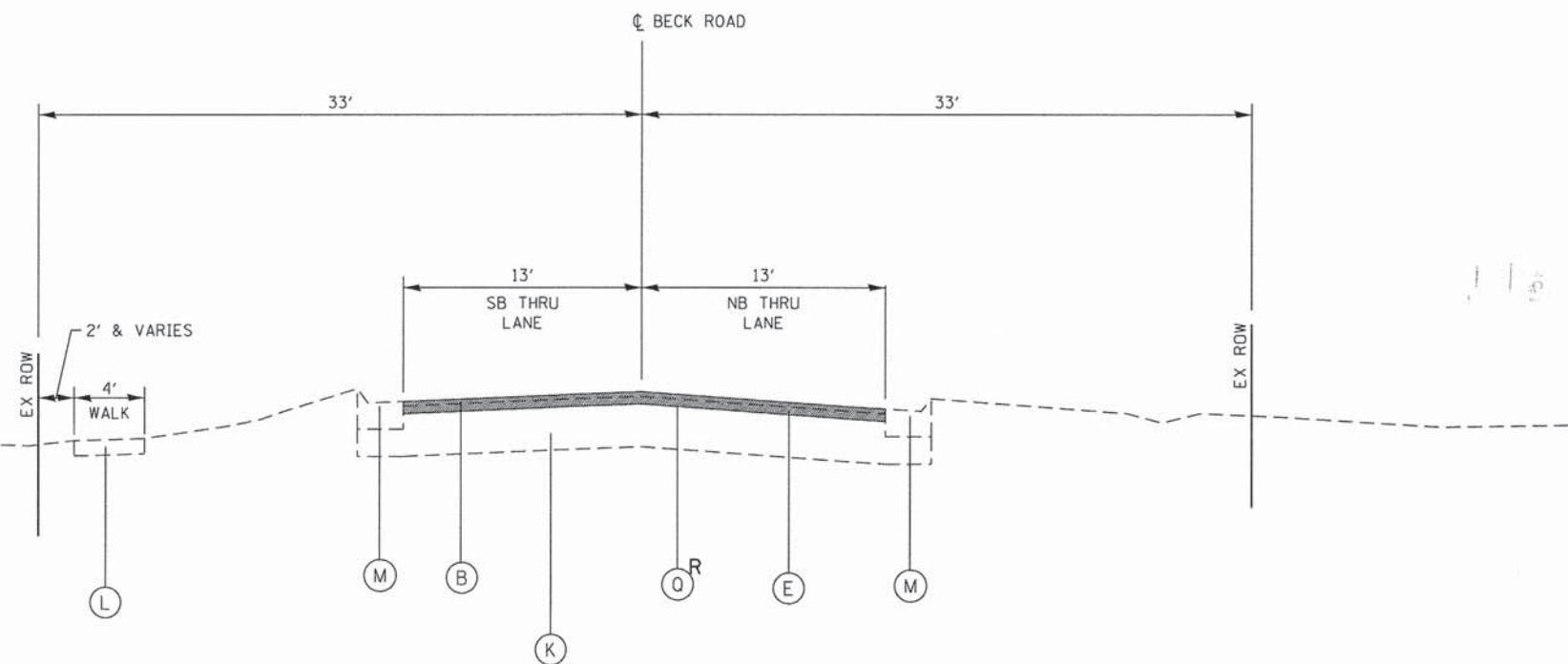
SCALE: N/A    SHEET 7 OF 7 SHEETS    STA.    TO STA.

F.A.U. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
160	14-00030-00-RS	LAKE	213	9
CONTRACT NO. 61C68				
ILLINOIS FED. AID PROJECT				

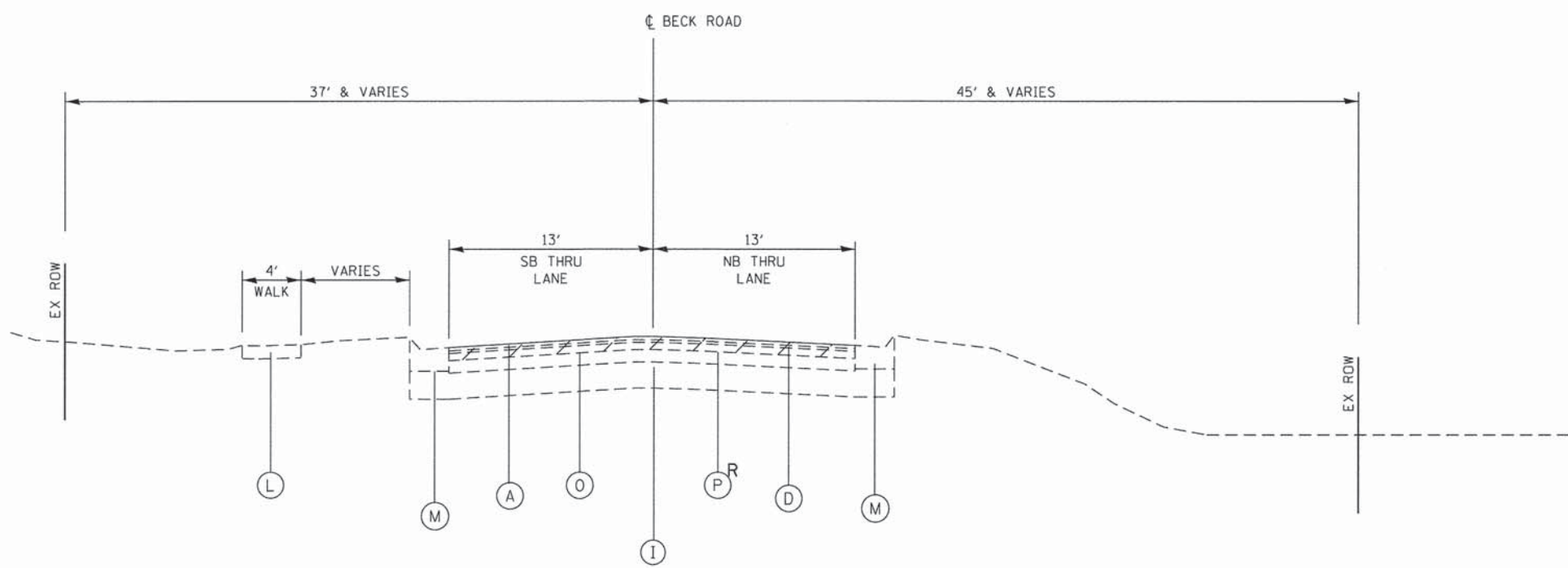


**EXISTING TYPICAL SECTION A**  
B.O.P TO STA. 9+10.00

- LEGEND**
- Ⓐ EXISTING HMA SURFACE, 1/4"
  - Ⓑ EXISTING HMA SURFACE, 1/2"
  - Ⓒ EXISTING HMA SURFACE, 2"
  - Ⓓ EXISTING BINDER, 1"
  - Ⓔ EXISTING BINDER, 2 1/2"
  - Ⓕ EXISTING BINDER, 3"
  - Ⓖ EXISTING BINDER, 4"
  - Ⓗ EXISTING AGGREGATE BASE, 8"
  - Ⓘ EXISTING AGGREGATE BASE, 10"
  - Ⓝ EXISTING AGGREGATE BASE, 12"
  - Ⓚ EXISTING AGGREGATE BASE, 14"
  - Ⓛ EXISTING SIDEWALK
  - Ⓜ EXISTING CONCRETE CURB & GUTTER, B6.24
  - Ⓝ EXISTING CONCRETE CURB & GUTTER, B6.12
  - Ⓞ EXISTING HMA, 7 1/2"
  - Ⓟ HOT-MIX ASPHALT SURFACE REMOVAL, 5"
  - Ⓠ PAVEMENT REMOVAL AND REPLACEMENT
  - Ⓡ DENOTES REMOVAL ITEM

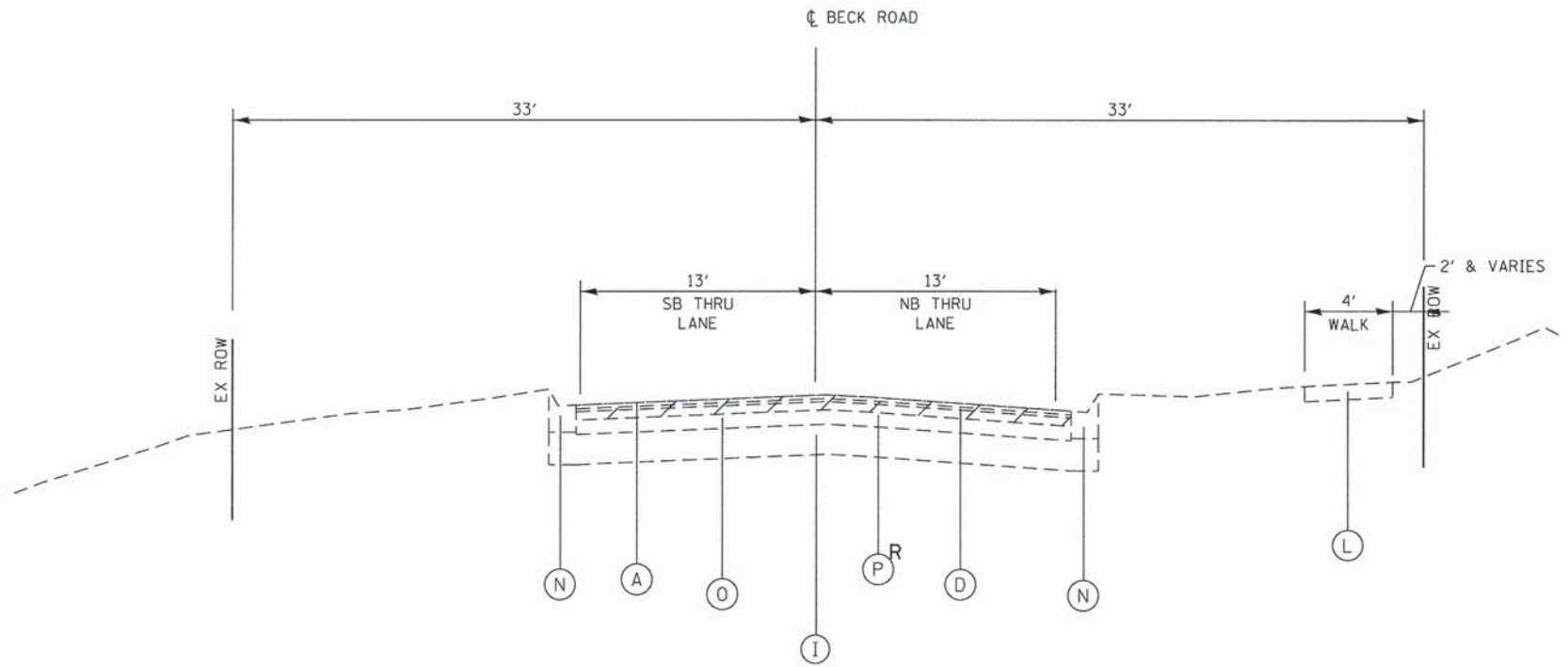


**EXISTING TYPICAL SECTION B**  
STA. 9+10.00 TO STA. 34+96.50



**EXISTING TYPICAL SECTION C**  
 STA. 34+96.50 TO STA. 35+50.00

- LEGEND**
- (A) EXISTING HMA SURFACE, 1/4"
  - (B) EXISTING HMA SURFACE, 1/2"
  - (C) EXISTING HMA SURFACE, 2"
  - (D) EXISTING BINDER, 1"
  - (E) EXISTING BINDER, 2 1/2"
  - (F) EXISTING BINDER, 3"
  - (G) EXISTING BINDER, 4"
  - (H) EXISTING AGGREGATE BASE, 8"
  - (I) EXISTING AGGREGATE BASE, 10"
  - (J) EXISTING AGGREGATE BASE, 12"
  - (K) EXISTING AGGREGATE BASE, 14"
  - (L) EXISTING SIDEWALK
  - (M) EXISTING CONCRETE CURB & GUTTER, B6.24
  - (N) EXISTING CONCRETE CURB & GUTTER, B6.12
  - (O) EXISTING HMA, 7 1/2"
  - (P) HOT-MIX ASPHALT SURFACE REMOVAL, 5"
  - (Q) PAVEMENT REMOVAL AND REPLACEMENT
  - (R) DENOTES REMOVAL ITEM



**EXISTING TYPICAL SECTION D**  
 STA. 35+50.00 TO STA. 46+50.00

**CH2M HILL**  
 GEWALT HAMILTON  
 ASSOCIATES, INC.

FILE NAME = D:\12345-TYPICAL.sheets.dgn	USER NAME = mcolemn	DESIGNED - MAC	REVISED -
DHA* 4477.025	PLOT SCALE = 1/8"	DRAWN - ZCW	REVISED -
Typicals Sheet 2	PLOT DATE = 2/8/2016	CHECKED - KLB	REVISED -
		DATE -	REVISED -

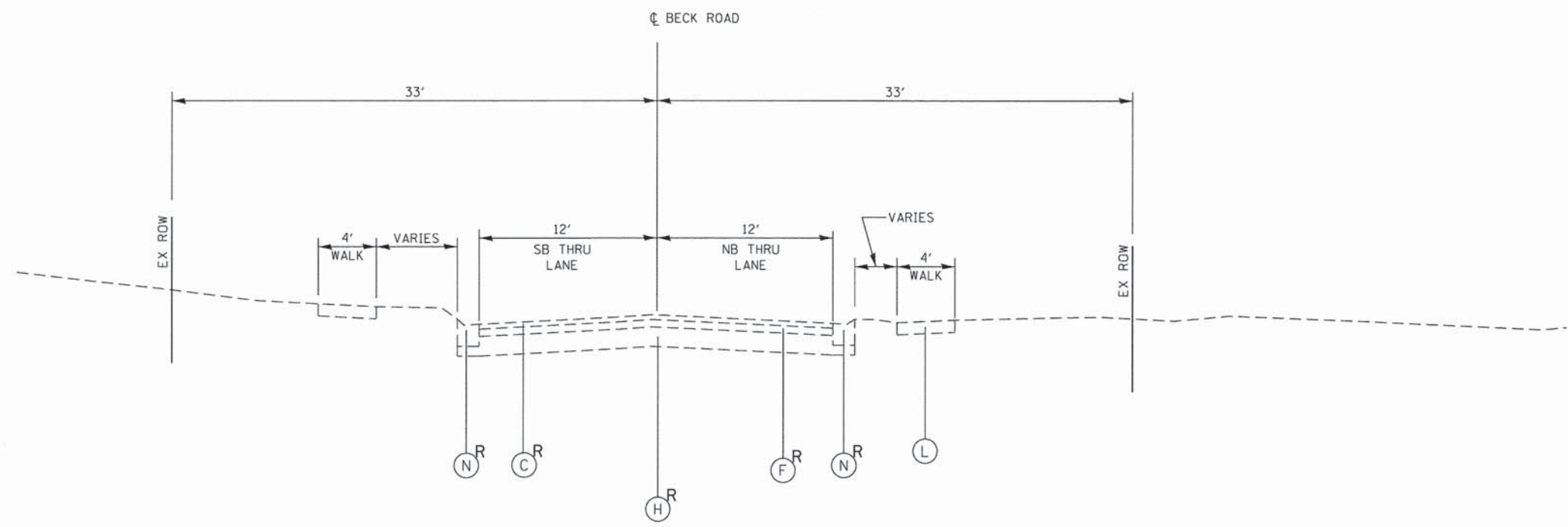
**STATE OF ILLINOIS**  
**DEPARTMENT OF TRANSPORTATION**

<b>EXISTING TYPICAL SECTIONS</b>	
<b>BECK ROAD</b>	
SCALE: N/A	SHEET 2 OF 11 SHEETS
STA. _____	TO STA. _____

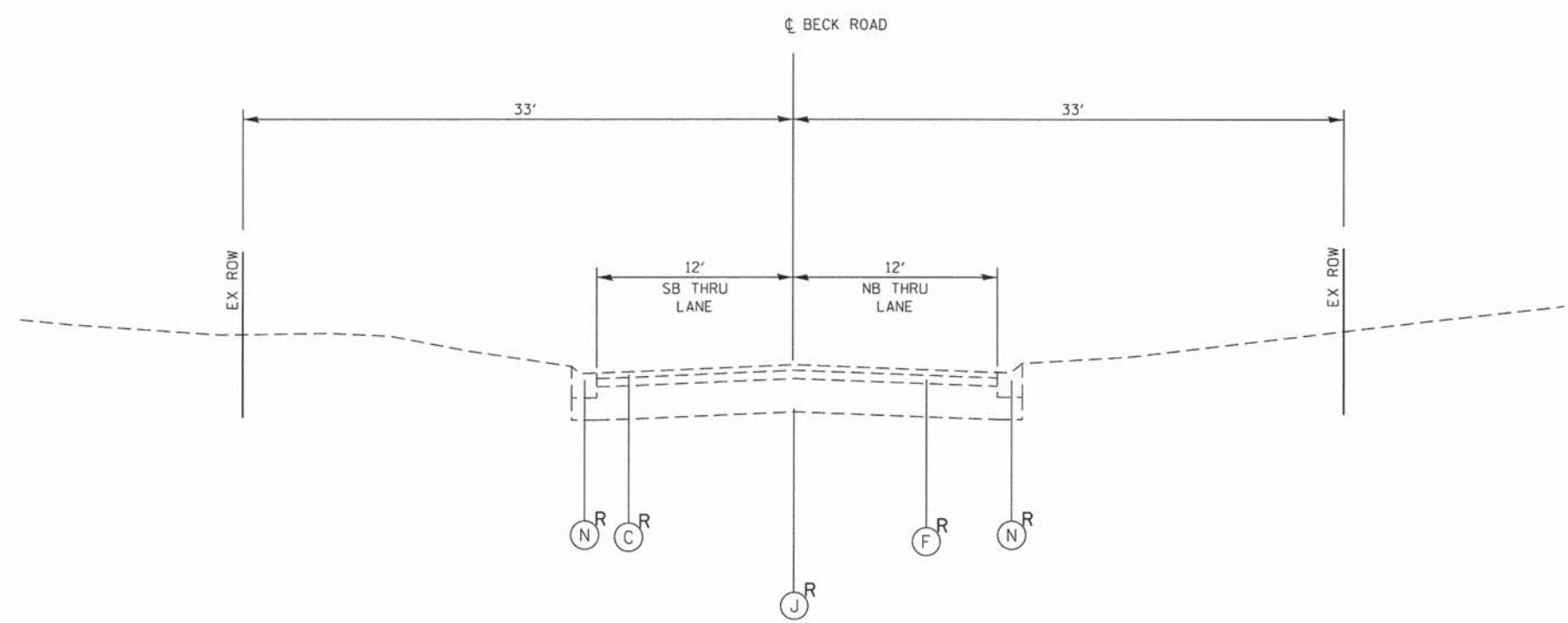
F.A.U. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
160	14-00030-00-RS	LAKE	213	11
CONTRACT NO. 61C68				
ILLINOIS FED. AID PROJECT				

**LEGEND**

- Ⓐ EXISTING HMA SURFACE, 1 1/4"
- Ⓑ EXISTING HMA SURFACE, 1 1/2"
- Ⓒ EXISTING HMA SURFACE, 2"
- Ⓓ EXISTING BINDER, 1"
- Ⓔ EXISTING BINDER, 2 1/2"
- Ⓕ EXISTING BINDER, 3"
- Ⓖ EXISTING BINDER, 4"
- Ⓗ EXISTING AGGREGATE BASE, 8"
- Ⓘ EXISTING AGGREGATE BASE, 10"
- Ⓝ EXISTING AGGREGATE BASE, 12"
- Ⓚ EXISTING AGGREGATE BASE, 14"
- Ⓛ EXISTING SIDEWALK
- Ⓜ EXISTING CONCRETE CURB & GUTTER, B6.24
- Ⓝ EXISTING CONCRETE CURB & GUTTER, B6.12
- Ⓞ EXISTING HMA, 7 1/2"
- Ⓟ HOT-MIX ASPHALT SURFACE REMOVAL, 5"
- Ⓠ PAVEMENT REMOVAL AND REPLACEMENT
- Ⓡ DENOTES REMOVAL ITEM



**EXISTING TYPICAL SECTION E**  
 STA. 46+50.00 TO STA. 68+00.00



**EXISTING TYPICAL SECTION F**  
 STA. 68+00.00 TO STA. 84+00.00

**GEHA** GEWALT HAMILTON ASSOCIATES, INC.

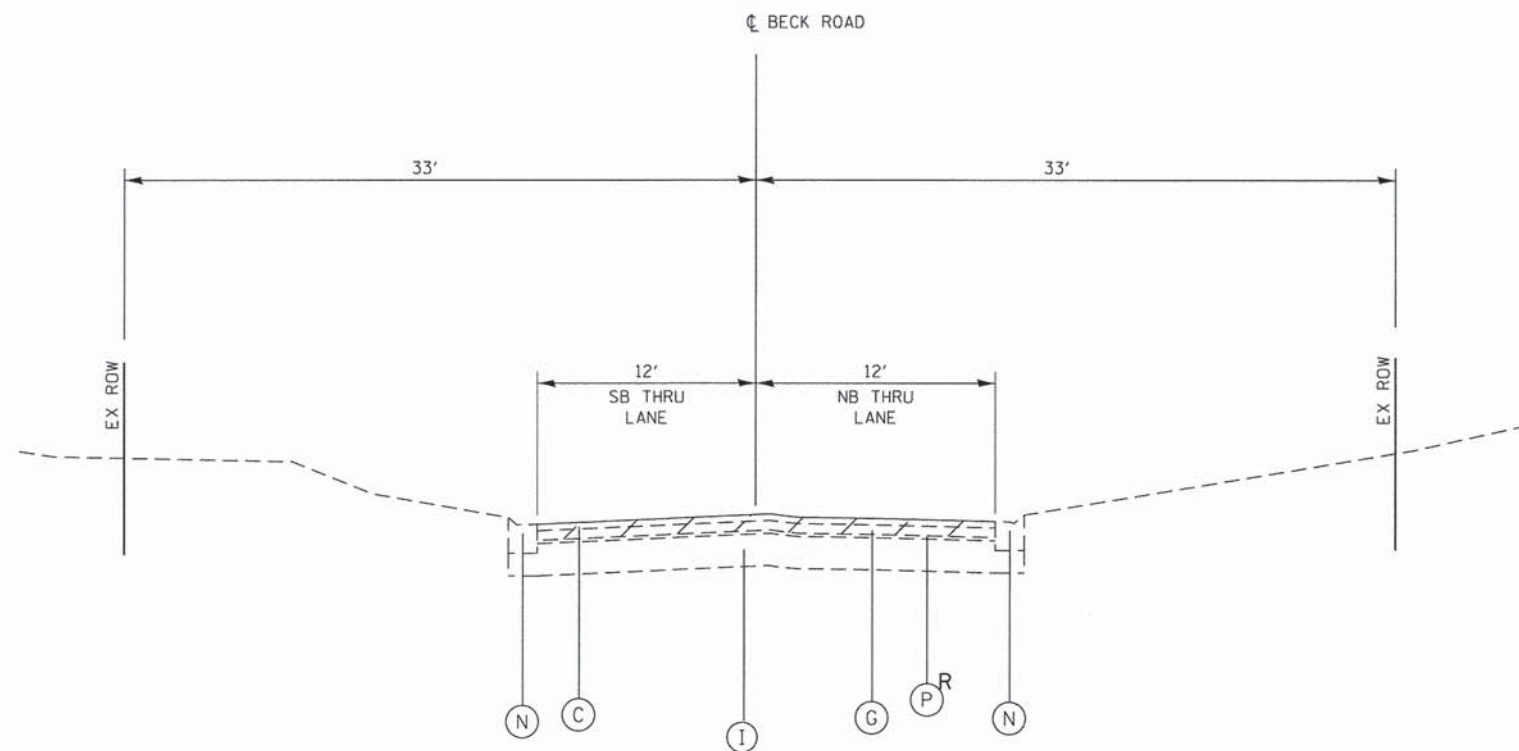
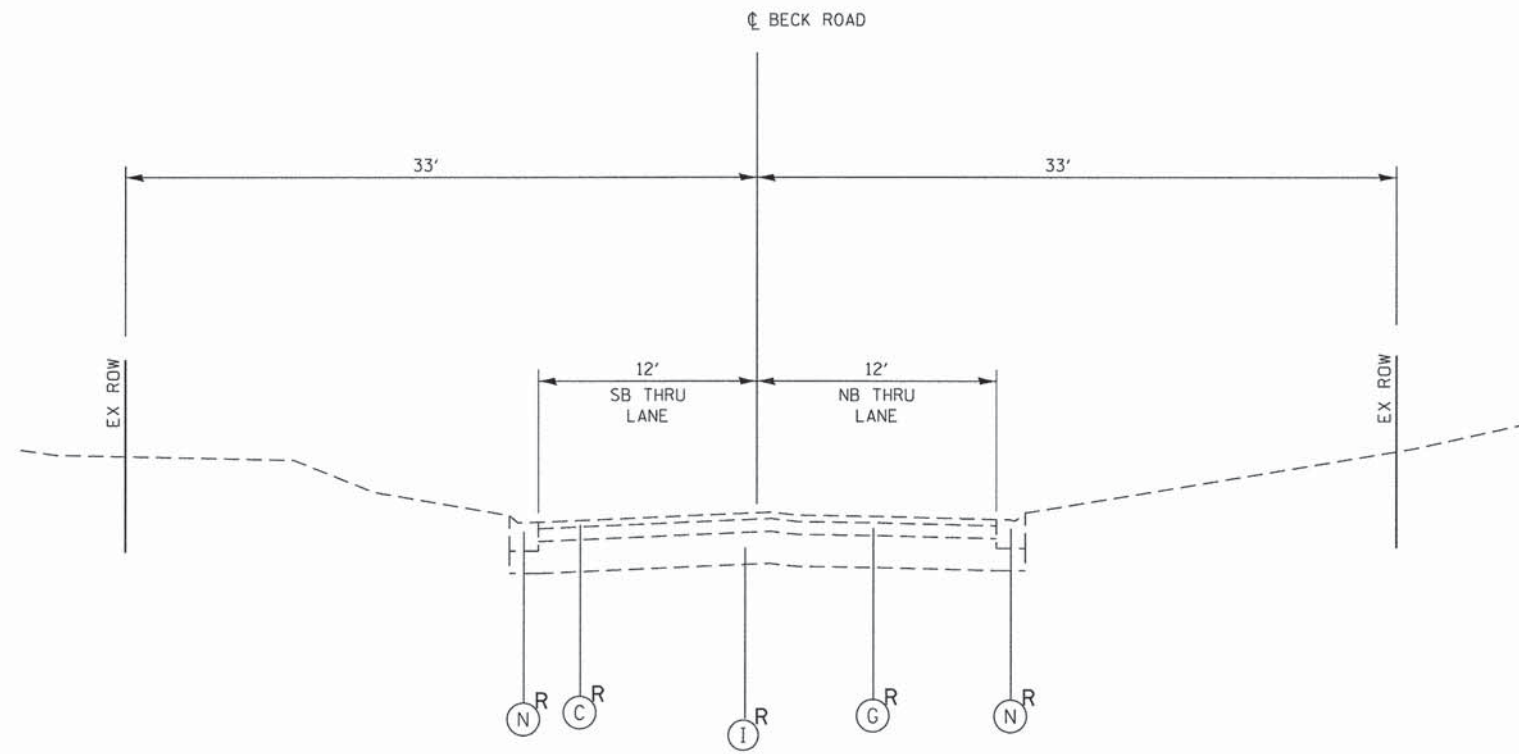
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 GHA\* 4477.025  
 Typical Sheet 3

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PLOT SCALE = 1/8"	DRAWN - ZCW	REVISED -
PLOT DATE = 2/8/2016	CHECKED - KLB	REVISED -
	DATE -	REVISED -

**STATE OF ILLINOIS  
 DEPARTMENT OF TRANSPORTATION**

<b>EXISTING TYPICAL SECTIONS      BECK ROAD</b>			
SCALE: N/A	SHEET 3 OF 11 SHEETS	STA. TO STA.	

F.A.U. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
160	14-00030-00-RS	LAKE	213	12
CONTRACT NO. 61C68				
ILLINOIS FED. AID PROJECT				



- LEGEND**
- (A) EXISTING HMA SURFACE, 1 1/4"
  - (B) EXISTING HMA SURFACE, 1 1/2"
  - (C) EXISTING HMA SURFACE, 2"
  - (D) EXISTING BINDER, 1"
  - (E) EXISTING BINDER, 2 1/2"
  - (F) EXISTING BINDER, 3"
  - (G) EXISTING BINDER, 4"
  - (H) EXISTING AGGREGATE BASE, 8"
  - (I) EXISTING AGGREGATE BASE, 10"
  - (J) EXISTING AGGREGATE BASE, 12"
  - (K) EXISTING AGGREGATE BASE, 14"
  - (L) EXISTING SIDEWALK
  - (M) EXISTING CONCRETE CURB & GUTTER, B6.24
  - (N) EXISTING CONCRETE CURB & GUTTER, B6.12
  - (O) EXISTING HMA, 7 1/2"
  - (P) HOT-MIX ASPHALT SURFACE REMOVAL, 5"
  - (Q) PAVEMENT REMOVAL AND REPLACEMENT
  - (R) DENOTES REMOVAL ITEM

**CHA** GEVAULT HAMILTON  
 ASSOCIATES, INC.

FILE NAME = D812345-TYPICAL\_sheets.dgn  
 GHA\* 4477.025  
 Typical Sheet 4

USER NAME = mcoleman  
 PLOT SCALE = 1/8"  
 PLOT DATE = 2/8/2016

DESIGNED - MAC  
 DRAWN - ZCW  
 CHECKED - KLB  
 DATE -

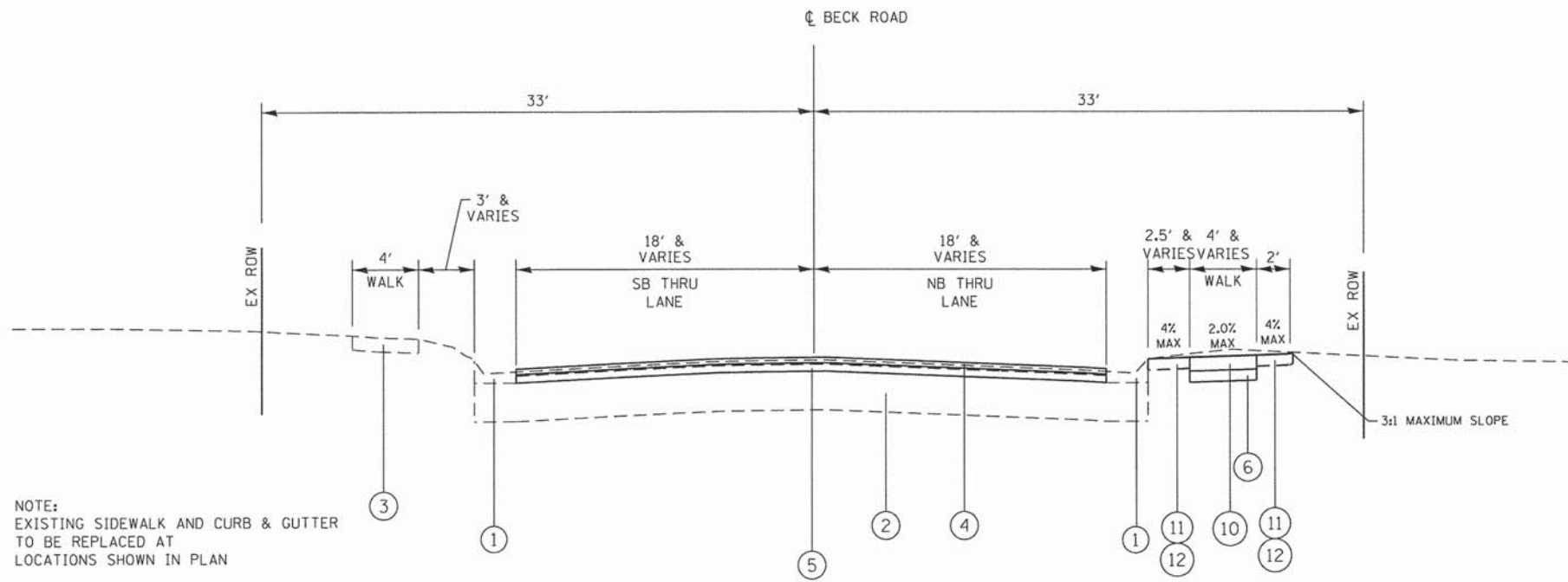
REVISED -  
 REVISED -  
 REVISED -  
 REVISED -

STATE OF ILLINOIS  
 DEPARTMENT OF TRANSPORTATION

EXISTING TYPICAL SECTIONS  
 BECK ROAD

SCALE: N/A SHEET 4 OF 11 SHEETS STA. TO STA.

F.A.U. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
160	14-00030-00-RS	LAKE	213	13
CONTRACT NO. 61C68				
ILLINOIS FED. AID PROJECT				



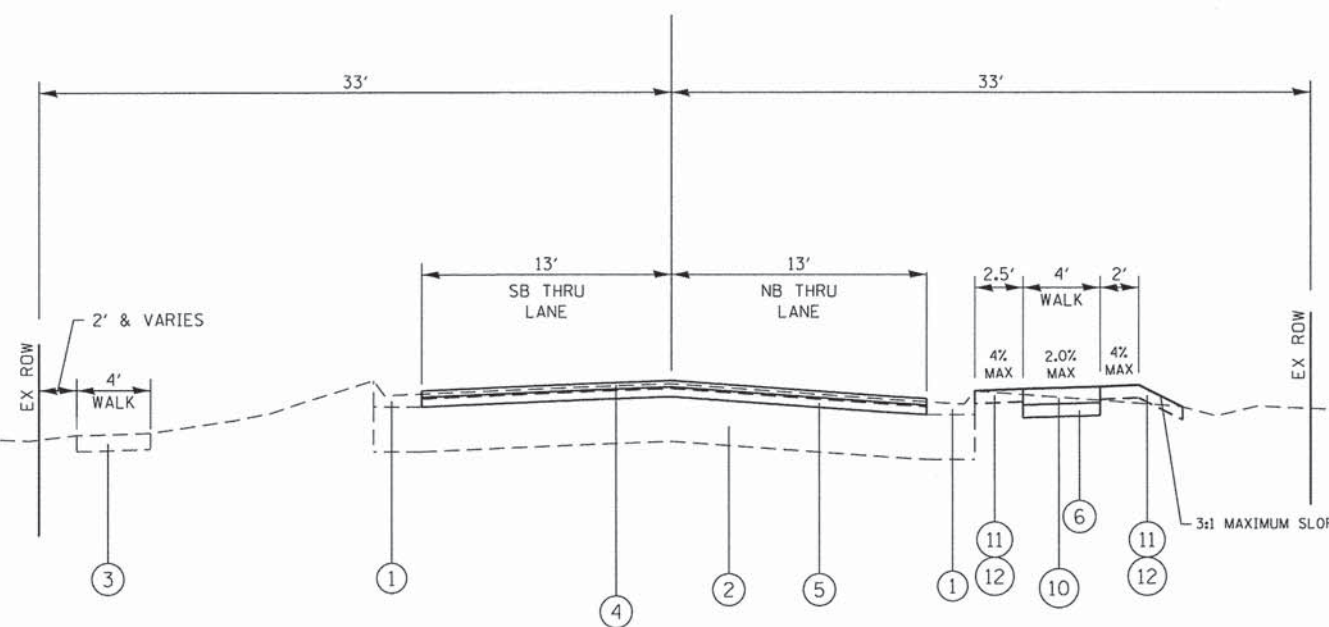
NOTE:  
EXISTING SIDEWALK AND CURB & GUTTER  
TO BE REPLACED AT  
LOCATIONS SHOWN IN PLAN

**LEGEND**

- ① EX CURB & GUTTER
- ② EX AGGREGATE BASE COURSE
- ③ EX SIDEWALK
- ④ HOT-MIX ASPHALT SURFACE COURSE, MIX "D", N50, 2"
- ⑤ HOT-MIX ASPHALT BINDER COURSE, IL-19.0, N50, 3"
- ⑥ AGGREGATE BASE COURSE, TYPE B, 4"
- ⑦ AGGREGATE SUBGRADE IMPROVEMENT, 12"
- ⑧ AGGREGATE SUBGRADE IMPROVEMENT
- ⑨ COMBINATION CONCRETE CURB & GUTTER, TYPE B6.12
- ⑩ PORTLAND CEMENT CONCRETE SIDEWALK, 5"
- ⑪ TOPSOIL FURNISH AND PLACE, 6"
- ⑫ SODDING
- ⑬ HOT-MIX ASPHALT DRIVEWAY PAVEMENT, 6"
- ⑭ HOT-MIX ASPHALT DRIVEWAY PAVEMENT, 8"
- ⑮ PORTLAND CEMENT CONCRETE DRIVEWAY PAVEMENT, 7"
- ⑯ GEOTECHNICAL FABRIC FOR GROUND STABILIZATION
- ⑰ PIPE UNDERDRAINS, 4"
- ⑱ PORTLAND CEMENT CONCRETE SIDEWALK, 7"

**PROPOSED TYPICAL SECTION ①**

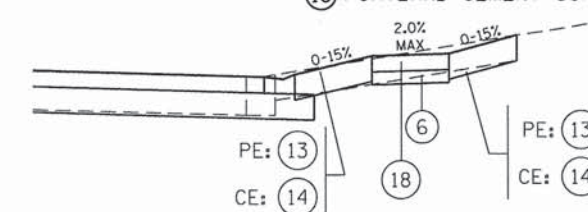
B.O.P TO STA. 9+10.00  
STA. 100+06.87 TO E.O.P.



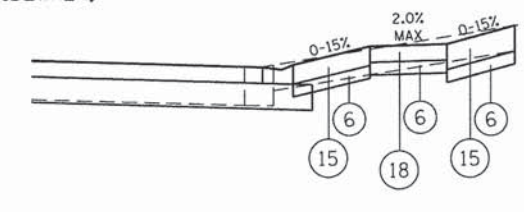
NOTE:  
EXISTING SIDEWALK AND CURB & GUTTER  
TO BE REPLACED AT  
LOCATIONS SHOWN IN PLAN

**PROPOSED TYPICAL SECTION ②**

STA. 9+10.00 TO STA. 34+96.50



**HMA DRIVEWAY DETAIL**



**P.C.C. DRIVEWAY DETAIL**

**HOT-MIX ASPHALT MIXTURE TABLE**

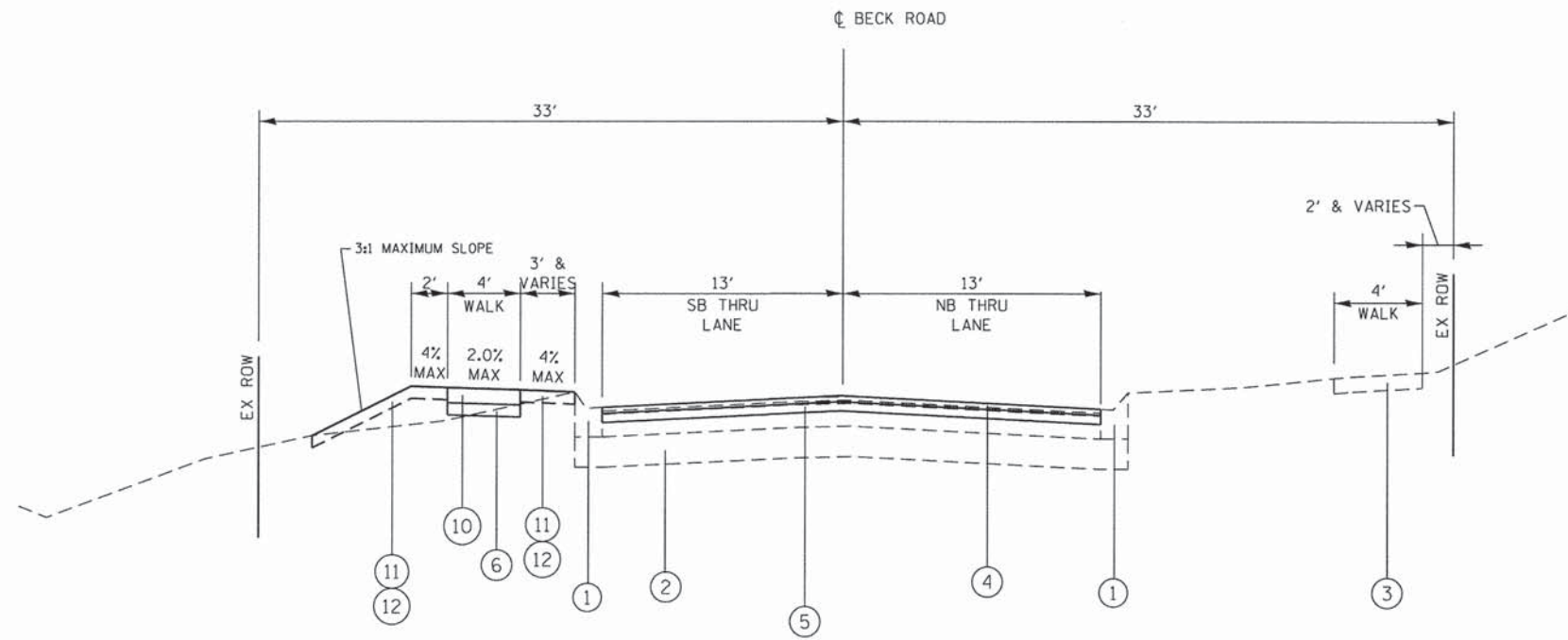
	MIX TYPE	PERCENT AIR Voids @ Ndes
<b>PAVEMENT RECONSTRUCTION</b>		
HOT-MIX ASPHALT SURFACE COURSE, MIX "D", N50, 2"	IL 9.5mm 4% @ 50 Gyr	
HOT-MIX ASPHALT BINDER COURSE, IL-19.0, N50, 3"		4% @ 50 Gyr
<b>PAVEMENT RESURFACING</b>		
HOT-MIX ASPHALT SURFACE COURSE, MIX "D", N50, 2"	IL 9.5mm 4% @ 50 Gyr	
HOT-MIX ASPHALT BINDER COURSE, IL-19.0, N50, 3"		4% @ 50 Gyr
<b>PRIVATE/COMMERCIAL ENTRANCES</b>		
HOT-MIX ASPHALT SURFACE COURSE, MIX "D", N50, 2"	IL 9.5mm 4% @ 50 Gyr	
HOT-MIX ASPHALT BINDER COURSE IL-19.0, N50, 6" (8" COMMERCIAL)		4% @ 50 Gyr
CLASS "D" PATCHES, HOT MIX ASPHALT, IL-19.0, N50, 6"		4% @ 50 Gyr

THE UNIT WEIGHT USED TO CALCULATE ALL HOT-MIX ASPHALT SURFACE MIXTURES IS 112 Lbs/SqYd/in

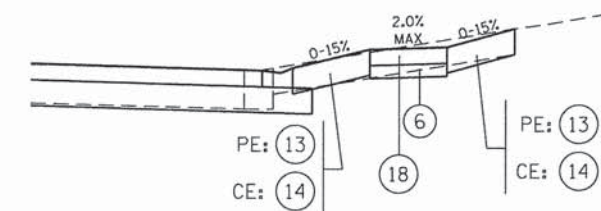
THE "AC TYPE" SHALL BE "PG 64-22" UNLESS MODIFIED BY DISTRICT ONE SPECIAL PROVISIONS. FOR USE OF RECYCLED MATERIALS SEE SPECIAL PROVISIONS.

**LEGEND**

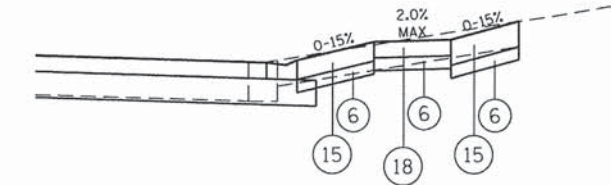
- ① EX CURB & GUTTER
- ② EX AGGREGATE BASE COURSE
- ③ EX SIDEWALK
- ④ HOT-MIX ASPHALT SURFACE COURSE, MIX "D", N50, 2"
- ⑤ HOT-MIX ASPHALT BINDER COURSE, IL-19.0, N50, 3"
- ⑥ AGGREGATE BASE COURSE, TYPE B, 4"
- ⑦ AGGREGATE SUBGRADE IMPROVEMENT, 12"
- ⑧ AGGREGATE SUBGRADE IMPROVEMENT
- ⑨ COMBINATION CONCRETE CURB & GUTTER, TYPE B6.12
- ⑩ PORTLAND CEMENT CONCRETE SIDEWALK, 5"
- ⑪ TOPSOIL FURNISH AND PLACE, 6"
- ⑫ SODDING
- ⑬ HOT-MIX ASPHALT DRIVEWAY PAVEMENT, 6"
- ⑭ HOT-MIX ASPHALT DRIVEWAY PAVEMENT, 8"
- ⑮ PORTLAND CEMENT CONCRETE DRIVEWAY PAVEMENT, 7"
- ⑯ GEOTECHNICAL FABRIC FOR GROUND STABILIZATION
- ⑰ PIPE UNDERDRAINS, 4"
- ⑱ PORTLAND CEMENT CONCRETE SIDEWALK, 7"



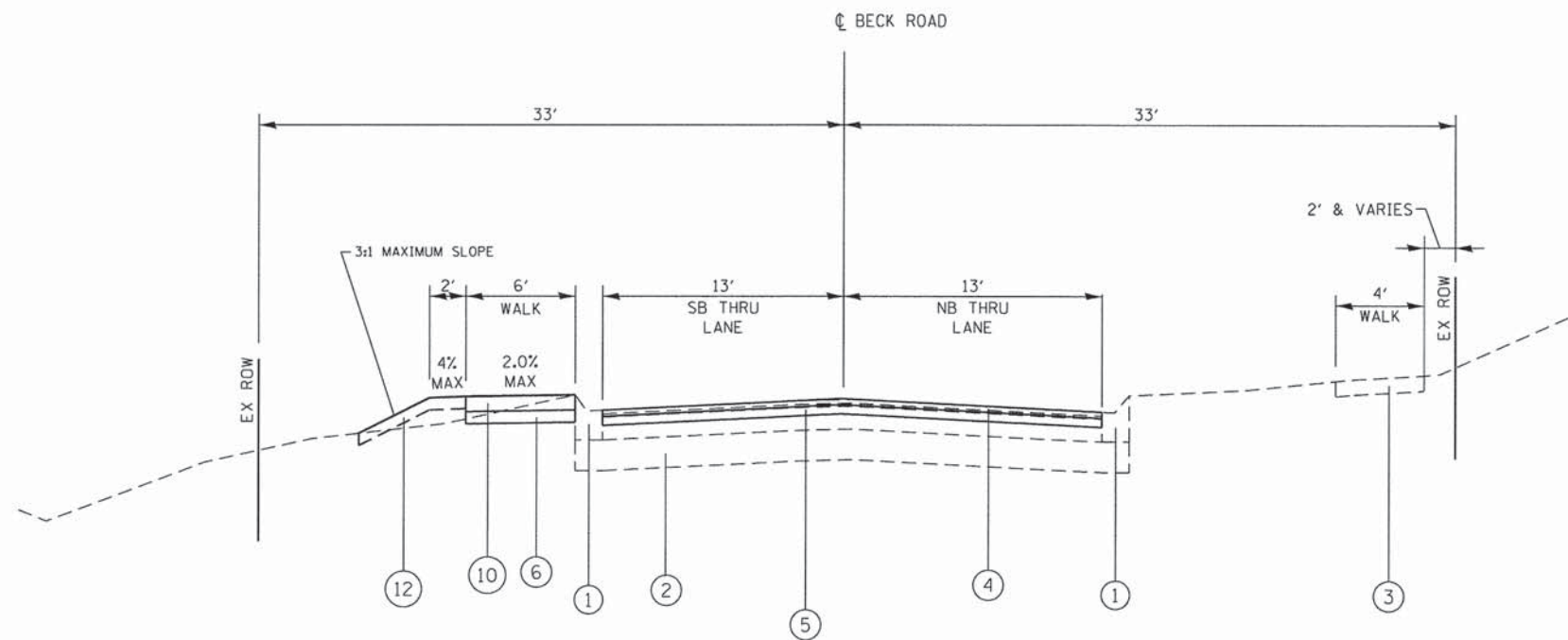
**PROPOSED TYPICAL SECTION ③**  
 STA. 34+96.50 TO STA. 37+30.00  
 STA. 37+95.00 TO STA. 45+50.00



**HMA DRIVEWAY DETAIL**



**P.C.C. DRIVEWAY DETAIL**



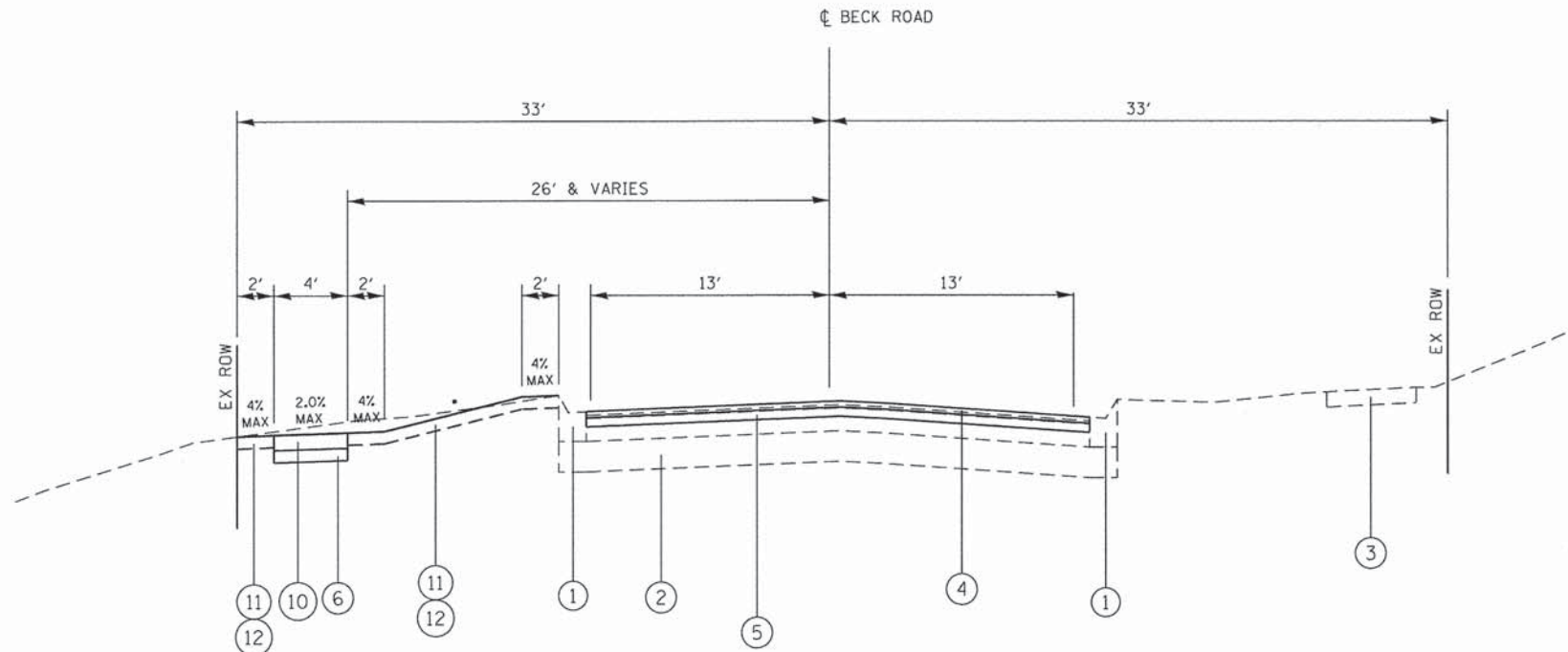
**PROPOSED TYPICAL SECTION ④**  
 STA. 37+30.00 TO STA. 37+95.00

**HOT-MIX ASPHALT MIXTURE TABLE**

	MIX TYPE	PERCENT AIR VOIDS @Ndes
<b>PAVEMENT RECONSTRUCTION</b>		
HOT-MIX ASPHALT SURFACE COURSE, MIX "D", N50, 2"	IL 9.5mm	4% @ 50 Gyr
HOT-MIX ASPHALT BINDER COURSE, IL-19.0, N50, 3"		4% @ 50 Gyr
<b>PAVEMENT RESURFACING</b>		
HOT-MIX ASPHALT SURFACE COURSE, MIX "D", N50, 2"	IL 9.5mm	4% @ 50 Gyr
HOT-MIX ASPHALT BINDER COURSE, IL-19.0, N50, 3"		4% @ 50 Gyr
<b>PRIVATE/COMMERCIAL ENTRANCES</b>		
HOT-MIX ASPHALT SURFACE COURSE, MIX "D", N50, 2"	IL 9.5mm	4% @ 50 Gyr
HOT-MIX ASPHALT BINDER COURSE IL-19.0, N50, 6" (8" COMMERCIAL)		4% @ 50 Gyr
CLASS "D" PATCHES, HOT MIX ASPHALT, IL-19.0, N50, 6"		4% @ 50 Gyr

THE UNIT WEIGHT USED TO CALCULATE ALL HOT-MIX ASPHALT SURFACE MIXTURES IS 112 Lbs/SqYd/in

THE "AC TYPE" SHALL BE "PG 64-22" UNLESS MODIFIED BY DISTRICT ONE SPECIAL PROVISIONS. FOR USE OF RECYCLED MATERIALS SEE SPECIAL PROVISIONS.



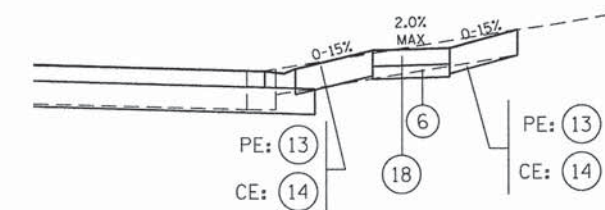
NOTE:  
EXISTING SIDEWALK AND CURB & GUTTER  
TO BE REPLACED AT  
LOCATIONS SHOWN IN PLAN

**PROPOSED TYPICAL SECTION 5**  
STA. 45+50.00 TO STA. 46+50.00

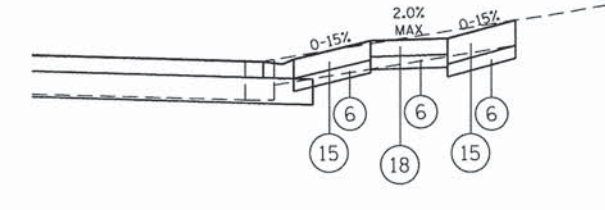
• 3:1 MAXIMUM SLOPE

**LEGEND**

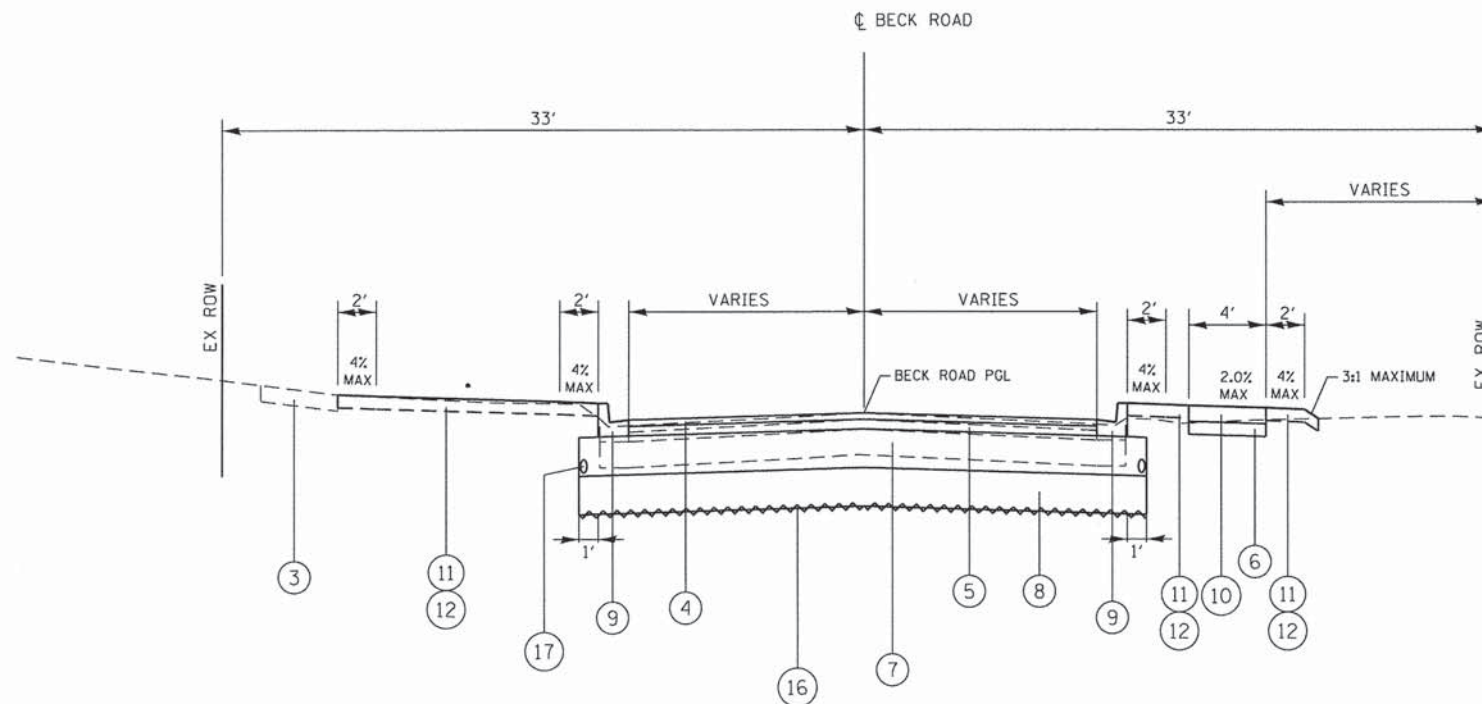
- ① EX CURB & GUTTER
- ② EX AGGREGATE BASE COURSE
- ③ EX SIDEWALK
- ④ HOT-MIX ASPHALT SURFACE COURSE, MIX "D", N50, 2"
- ⑤ HOT-MIX ASPHALT BINDER COURSE, IL-19.0, N50, 3"
- ⑥ AGGREGATE BASE COURSE, TYPE B, 4"
- ⑦ AGGREGATE SUBGRADE IMPROVEMENT, 12"
- ⑧ AGGREGATE SUBGRADE IMPROVEMENT
- ⑨ COMBINATION CONCRETE CURB & GUTTER, TYPE B6.12
- ⑩ PORTLAND CEMENT CONCRETE SIDEWALK, 5"
- ⑪ TOPSOIL FURNISH AND PLACE, 6"
- ⑫ SODDING
- ⑬ HOT-MIX ASPHALT DRIVEWAY PAVEMENT, 6"
- ⑭ HOT-MIX ASPHALT DRIVEWAY PAVEMENT, 8"
- ⑮ PORTLAND CEMENT CONCRETE DRIVEWAY PAVEMENT, 7"
- ⑯ GEOTECHNICAL FABRIC FOR GROUND STABILIZATION
- ⑰ PIPE UNDERDRAINS, 4"
- ⑱ PORTLAND CEMENT CONCRETE SIDEWALK, 7"



**HMA DRIVEWAY DETAIL**



**P.C.C. DRIVEWAY DETAIL**



NOTE:  
EXISTING SIDEWALK  
TO BE REPLACED AT  
LOCATIONS SHOWN IN PLAN

**PROPOSED TYPICAL SECTION 6**  
STA. 46+50.00 TO STA. 47+25.00

• 3:1 MAXIMUM SLOPE

**HOT-MIX ASPHALT MIXTURE TABLE**

	MIX TYPE	PERCENT AIR VOIDS @Ndes
<b>PAVEMENT RECONSTRUCTION</b>		
HOT-MIX ASPHALT SURFACE COURSE, MIX "D", N50, 2"	IL 9.5mm	4% @ 50 Gyr
HOT-MIX ASPHALT BINDER COURSE, IL-19.0, N50, 3"		4% @ 50 Gyr
<b>PAVEMENT RESURFACING</b>		
HOT-MIX ASPHALT SURFACE COURSE, MIX "D", N50, 2"	IL 9.5mm	4% @ 50 Gyr
HOT-MIX ASPHALT BINDER COURSE, IL-19.0, N50, 3"		4% @ 50 Gyr
<b>PRIVATE/COMMERCIAL ENTRANCES</b>		
HOT-MIX ASPHALT SURFACE COURSE, MIX "D", N50, 2"	IL 9.5mm	4% @ 50 Gyr
HOT-MIX ASPHALT BINDER COURSE IL-19.0, N50, 6" (8" COMMERCIAL)		4% @ 50 Gyr
CLASS "D" PATCHES, HOT MIX ASPHALT, IL-19.0, N50, 6"		4% @ 50 Gyr

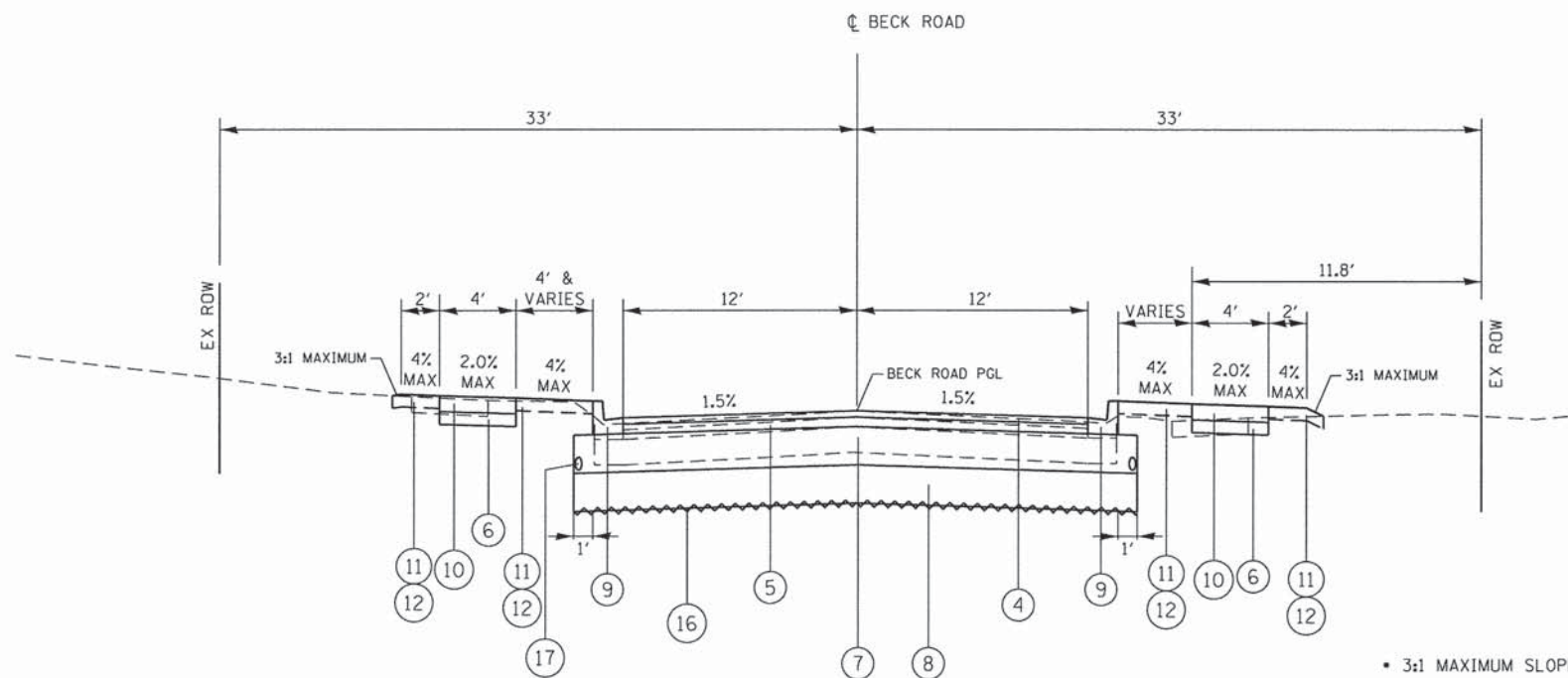
THE UNIT WEIGHT USED TO CALCULATE ALL HOT-MIX ASPHALT SURFACE MIXTURES IS 112 Lbs/SqYd/in

THE "AC TYPE" SHALL BE "PG 64-22" UNLESS MODIFIED BY DISTRICT ONE SPECIAL PROVISIONS. FOR USE OF RECYCLED MATERIALS SEE SPECIAL PROVISIONS.

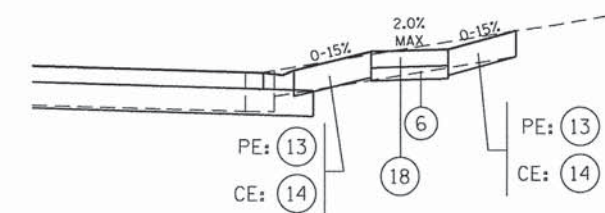


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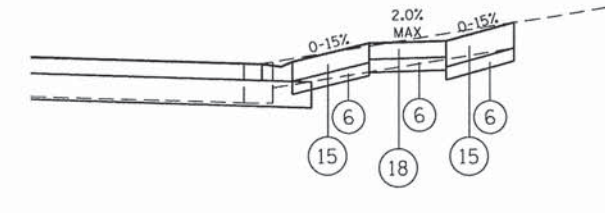
- ① EX CURB & GUTTER
- ② EX AGGREGATE BASE COURSE
- ③ EX SIDEWALK
- ④ HOT-MIX ASPHALT SURFACE COURSE, MIX "D", N50, 2"
- ⑤ HOT-MIX ASPHALT BINDER COURSE, IL-19.0, N50, 3"
- ⑥ AGGREGATE BASE COURSE, TYPE B, 4"
- ⑦ AGGREGATE SUBGRADE IMPROVEMENT, 12"
- ⑧ AGGREGATE SUBGRADE IMPROVEMENT
- ⑨ COMBINATION CONCRETE CURB & GUTTER, TYPE B6.12
- ⑩ PORTLAND CEMENT CONCRETE SIDEWALK, 5"
- ⑪ TOPSOIL FURNISH AND PLACE, 6"
- ⑫ SODDING
- ⑬ HOT-MIX ASPHALT DRIVEWAY PAVEMENT, 6"
- ⑭ HOT-MIX ASPHALT DRIVEWAY PAVEMENT, 8"
- ⑮ PORTLAND CEMENT CONCRETE DRIVEWAY PAVEMENT, 7"
- ⑯ GEOTECHNICAL FABRIC FOR GROUND STABILIZATION
- ⑰ PIPE UNDERDRAINS, 4"
- ⑱ PORTLAND CEMENT CONCRETE SIDEWALK, 7"



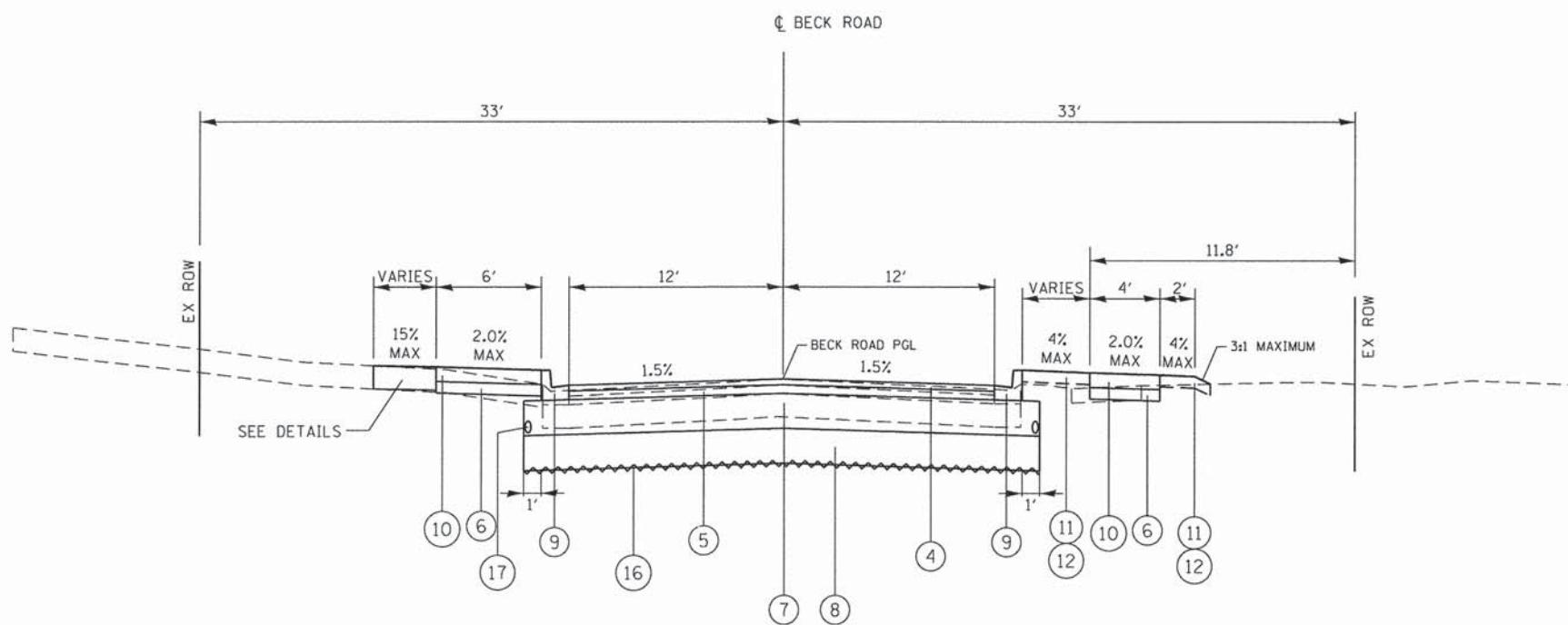
**PROPOSED TYPICAL SECTION 7**  
 STA. 47+25.00 TO STA. 48+25.00  
 STA. 48+50.00 TO STA. 49+00.00



**HMA DRIVEWAY DETAIL**



**P.C.C. DRIVEWAY DETAIL**



**PROPOSED TYPICAL SECTION 8**  
 STA. 48+25.00 TO STA. 48+50.00

**HOT-MIX ASPHALT MIXTURE TABLE**

	MIX TYPE	PERCENT AIR VOIDS @Ndes
PAVEMENT RECONSTRUCTION		
HOT-MIX ASPHALT SURFACE COURSE, MIX "D", N50, 2"	IL 9.5mm	4% @ 50 Gyr
HOT-MIX ASPHALT BINDER COURSE, IL-19.0, N50, 3"		4% @ 50 Gyr
PAVEMENT RESURFACING		
HOT-MIX ASPHALT SURFACE COURSE, MIX "D", N50, 2"	IL 9.5mm	4% @ 50 Gyr
HOT-MIX ASPHALT BINDER COURSE, IL-19.0, N50, 3"		4% @ 50 Gyr
PRIVATE/COMMERCIAL ENTRANCES		
HOT-MIX ASPHALT SURFACE COURSE, MIX "D", N50, 2"	IL 9.5mm	4% @ 50 Gyr
HOT-MIX ASPHALT BINDER COURSE IL-19.0, N50, 6" (8" COMMERCIAL)		4% @ 50 Gyr
CLASS "D" PATCHES, HOT MIX ASPHALT, IL-19.0, N50, 6"		4% @ 50 Gyr

THE UNIT WEIGHT USED TO CALCULATE ALL HOT-MIX ASPHALT SURFACE MIXTURES IS 112 Lbs/SqYd/in

THE "AC TYPE" SHALL BE "PG 64-22" UNLESS MODIFIED BY DISTRICT ONE SPECIAL PROVISIONS. FOR USE OF RECYCLED MATERIALS SEE SPECIAL PROVISIONS.

**CH2M HILL**  
GEWALT HAMILTON ASSOCIATES, INC.

FILE NAME = D812345-TYPICAL\_sheets.dgn  
 GHA# 4477.025  
 Typical Sheet 8

USER NAME = mcolemm  
 DESIGNED - MAC  
 DRAWN - ZCW  
 CHECKED - KLB  
 PLOT SCALE = 1/5  
 PLOT DATE = 2/8/2016

REVISD -  
 REVISD -  
 REVISD -  
 REVISD -

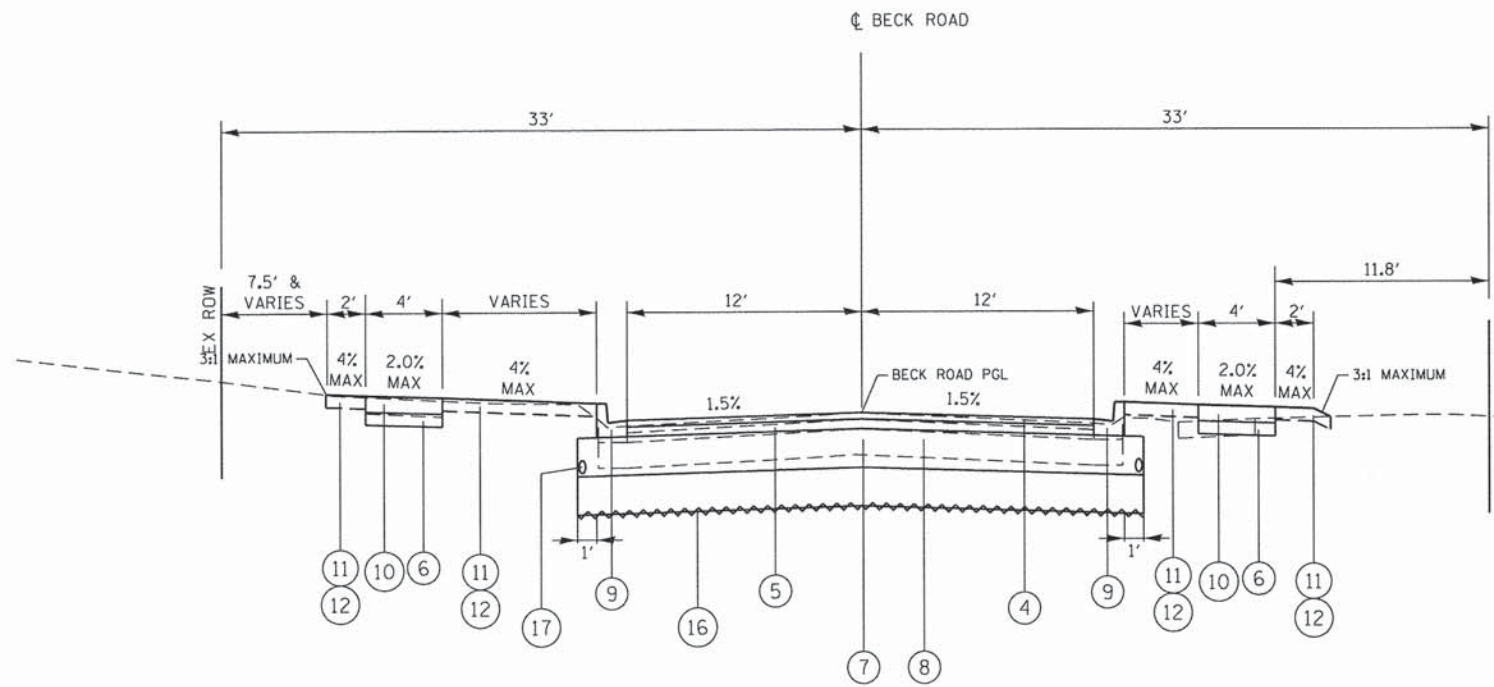
**STATE OF ILLINOIS  
 DEPARTMENT OF TRANSPORTATION**

**PROPOSED TYPICAL SECTIONS  
 BECK ROAD**  
 SCALE: N/A SHEET 8 OF 11 SHEETS STA. TO STA.

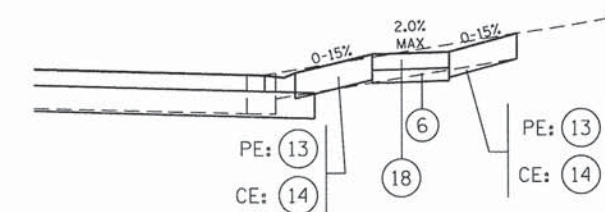
F.A.U. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
160	14-00030-00-RS	LAKE	213	17
CONTRACT NO. 61C68				
ILLINOIS FED. AID PROJECT				

**LEGEND**

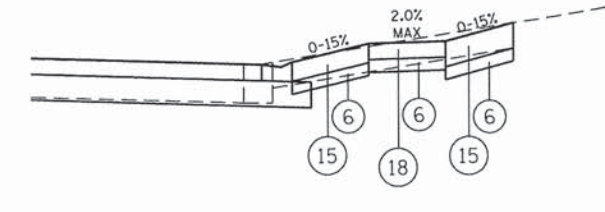
- ① EX CURB & GUTTER
- ② EX AGGREGATE BASE COURSE
- ③ EX SIDEWALK
- ④ HOT-MIX ASPHALT SURFACE COURSE, MIX "D", N50, 2"
- ⑤ HOT-MIX ASPHALT BINDER COURSE, IL-19.0, N50, 3"
- ⑥ AGGREGATE BASE COURSE, TYPE B, 4"
- ⑦ AGGREGATE SUBGRADE IMPROVEMENT, 12"
- ⑧ AGGREGATE SUBGRADE IMPROVEMENT
- ⑨ COMBINATION CONCRETE CURB & GUTTER, TYPE B6.12
- ⑩ PORTLAND CEMENT CONCRETE SIDEWALK, 5"
- ⑪ TOPSOIL FURNISH AND PLACE, 6"
- ⑫ SODDING
- ⑬ HOT-MIX ASPHALT DRIVEWAY PAVEMENT, 6"
- ⑭ HOT-MIX ASPHALT DRIVEWAY PAVEMENT, 8"
- ⑮ PORTLAND CEMENT CONCRETE DRIVEWAY PAVEMENT, 7"
- ⑯ GEOTECHNICAL FABRIC FOR GROUND STABILIZATION
- ⑰ PIPE UNDERDRAINS, 4"
- ⑱ PORTLAND CEMENT CONCRETE SIDEWALK, 7"



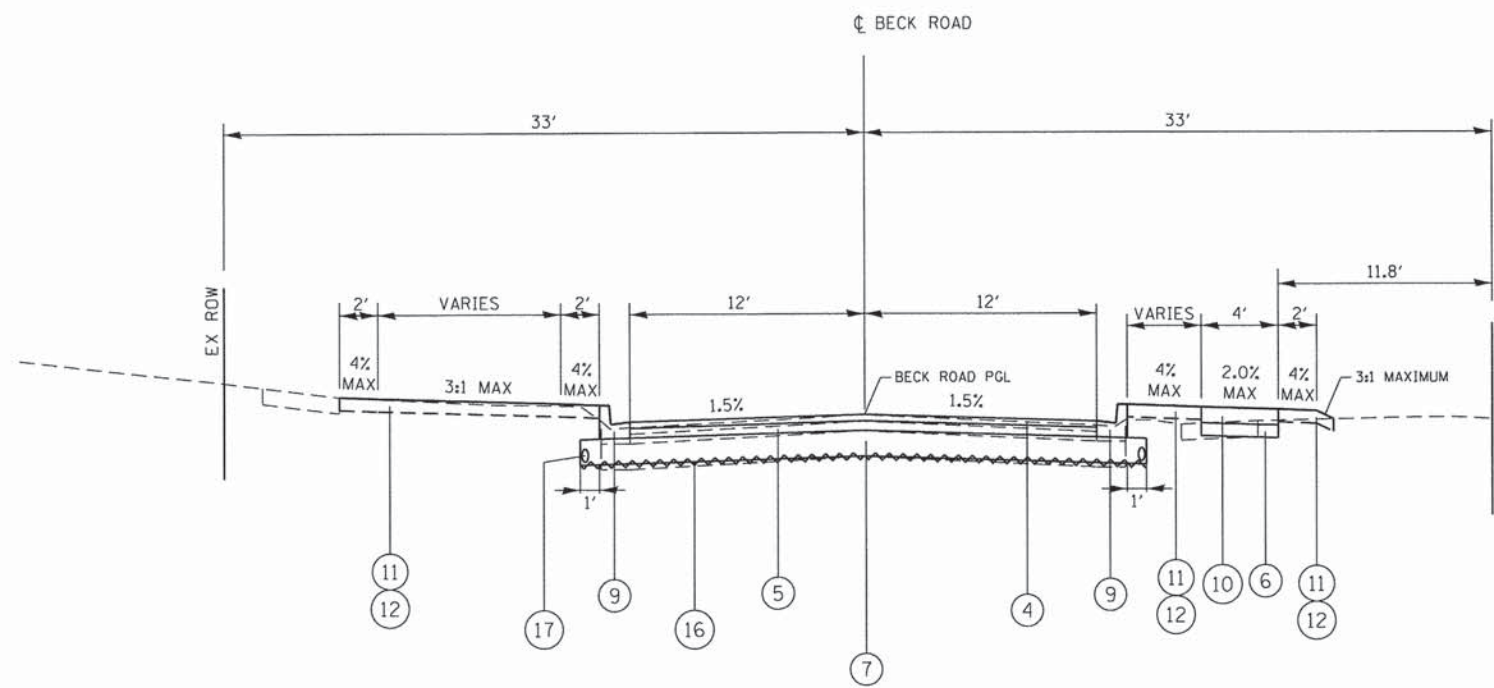
**PROPOSED TYPICAL SECTION 9**  
STA. 49+00.00 TO STA. 50+00.00



**HMA DRIVEWAY DETAIL**



**P.C.C. DRIVEWAY DETAIL**



**PROPOSED TYPICAL SECTION 10**  
STA. 50+00.00 TO STA. 53+00.00

**HOT-MIX ASPHALT MIXTURE TABLE**

	MIX TYPE	PERCENT AIR Voids @Ndes
<b>PAVEMENT RECONSTRUCTION</b>		
HOT-MIX ASPHALT SURFACE COURSE, MIX "D", N50, 2"	IL 9.5mm	4% @ 50 Gyr
HOT-MIX ASPHALT BINDER COURSE, IL-19.0, N50, 3"		4% @ 50 Gyr
<b>PAVEMENT RESURFACING</b>		
HOT-MIX ASPHALT SURFACE COURSE, MIX "D", N50, 2"	IL 9.5mm	4% @ 50 Gyr
HOT-MIX ASPHALT BINDER COURSE, IL-19.0, N50, 3"		4% @ 50 Gyr
<b>PRIVATE/COMMERCIAL ENTRANCES</b>		
HOT-MIX ASPHALT SURFACE COURSE, MIX "D", N50, 2"	IL 9.5mm	4% @ 50 Gyr
HOT-MIX ASPHALT BINDER COURSE IL-19.0, N50, 6" (8" COMMERCIAL)		4% @ 50 Gyr
CLASS "D" PATCHES, HOT MIX ASPHALT, IL-19.0, N50, 6"		4% @ 50 Gyr

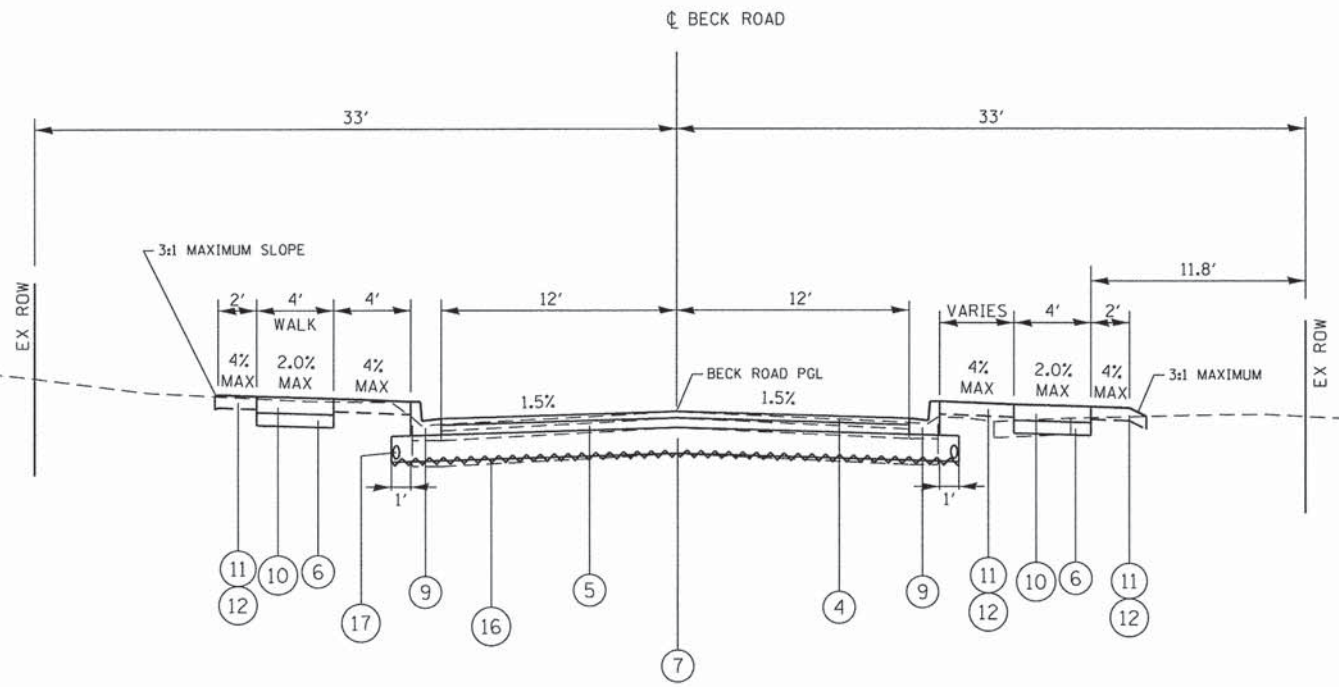
THE UNIT WEIGHT USED TO CALCULATE ALL HOT-MIX ASPHALT SURFACE MIXTURES IS 112 Lbs/SqYd/in

THE "AC TYPE" SHALL BE "PG 64-22" UNLESS MODIFIED BY DISTRICT ONE SPECIAL PROVISIONS. FOR USE OF RECYCLED MATERIALS SEE SPECIAL PROVISIONS.

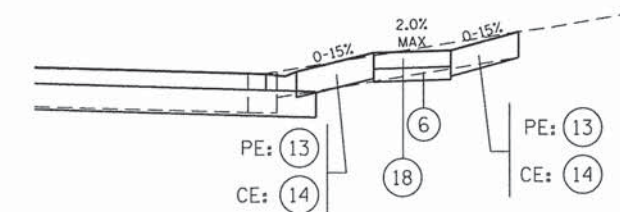
**GHA GEWALT HAMILTON ASSOCIATES, INC.**

**LEGEND**

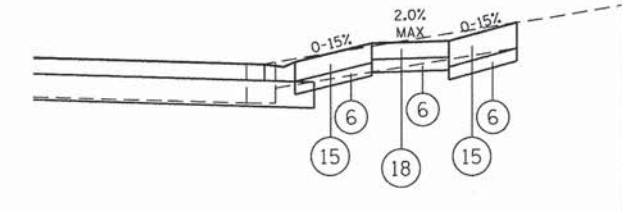
- ① EX CURB & GUTTER
- ② EX AGGREGATE BASE COURSE
- ③ EX SIDEWALK
- ④ HOT-MIX ASPHALT SURFACE COURSE, MIX "D", N50, 2"
- ⑤ HOT-MIX ASPHALT BINDER COURSE, IL-19.0, N50, 3"
- ⑥ AGGREGATE BASE COURSE, TYPE B, 4"
- ⑦ AGGREGATE SUBGRADE IMPROVEMENT, 12"
- ⑧ AGGREGATE SUBGRADE IMPROVEMENT
- ⑨ COMBINATION CONCRETE CURB & GUTTER, TYPE B6.12
- ⑩ PORTLAND CEMENT CONCRETE SIDEWALK, 5"
- ⑪ TOPSOIL FURNISH AND PLACE, 6"
- ⑫ SODDING
- ⑬ HOT-MIX ASPHALT DRIVEWAY PAVEMENT, 6"
- ⑭ HOT-MIX ASPHALT DRIVEWAY PAVEMENT, 8"
- ⑮ PORTLAND CEMENT CONCRETE DRIVEWAY PAVEMENT, 7"
- ⑯ GEOTECHNICAL FABRIC FOR GROUND STABILIZATION
- ⑰ PIPE UNDERDRAINS, 4"
- ⑱ PORTLAND CEMENT CONCRETE SIDEWALK, 7"



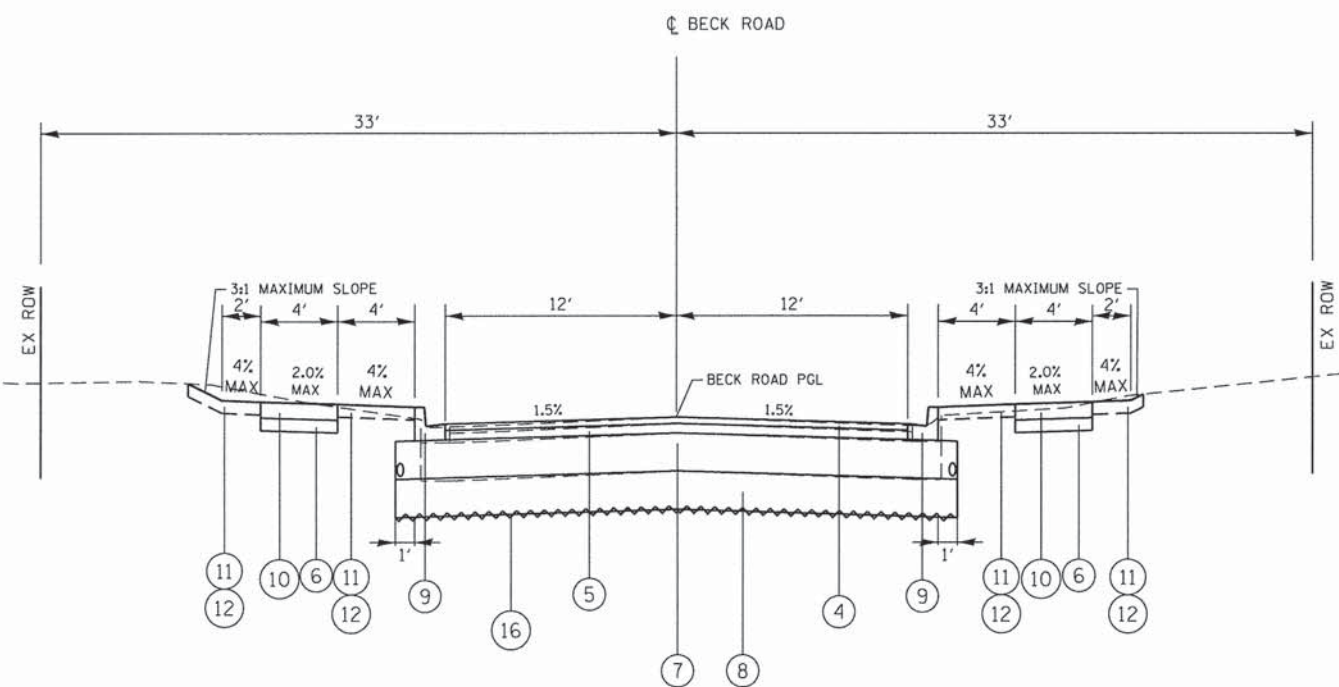
**PROPOSED TYPICAL SECTION 11**  
STA. 50+00.00 TO STA. 59+00.00



**HMA DRIVEWAY DETAIL**



**P.C.C. DRIVEWAY DETAIL**



**PROPOSED TYPICAL SECTION 12**  
STA. 59+50.00 TO STA. 76+00.00  
STA. 76+50.00 TO STA. 90+00.00  
STA. 91+00.00 TO STA. 100+06.87

**HOT-MIX ASPHALT MIXTURE TABLE**

	MIX TYPE	PERCENT AIR VOIDS @Ndes
<b>PAVEMENT RECONSTRUCTION</b>		
HOT-MIX ASPHALT SURFACE COURSE, MIX "D", N50, 2"	IL 9.5mm	4% @ 50 Gyr
HOT-MIX ASPHALT BINDER COURSE, IL-19.0, N50, 3"		4% @ 50 Gyr
<b>PAVEMENT RESURFACING</b>		
HOT-MIX ASPHALT SURFACE COURSE, MIX "D", N50, 2"	IL 9.5mm	4% @ 50 Gyr
HOT-MIX ASPHALT BINDER COURSE, IL-19.0, N50, 3"		4% @ 50 Gyr
<b>PRIVATE/COMMERCIAL ENTRANCES</b>		
HOT-MIX ASPHALT SURFACE COURSE, MIX "D", N50, 2"	IL 9.5mm	4% @ 50 Gyr
HOT-MIX ASPHALT BINDER COURSE IL-19.0, N50, 6" (8" COMMERCIAL)		4% @ 50 Gyr
CLASS "D" PATCHES, HOT MIX ASPHALT, IL-19.0, N50, 6"		4% @ 50 Gyr

THE UNIT WEIGHT USED TO CALCULATE ALL HOT-MIX ASPHALT SURFACE MIXTURES IS 112 Lbs/SqYd/in

THE "AC TYPE" SHALL BE "PG 64-22" UNLESS MODIFIED BY DISTRICT ONE SPECIAL PROVISIONS. FOR USE OF RECYCLED MATERIALS SEE SPECIAL PROVISIONS.

**CHA GEWALT HAMILTON ASSOCIATES, INC.**

FILE NAME = D:\2345-TYPICAL_sheets.dgn	USER NAME = mcoleman	DESIGNED - MAC	REVISED -
GHA* 4477.025	PLOT SCALE = 1/8"	DRAWN - ZCW	REVISED -
Typicals Sheet 10	PLOT DATE = 2/8/2016	CHECKED - KLB	REVISED -
		DATE -	REVISED -

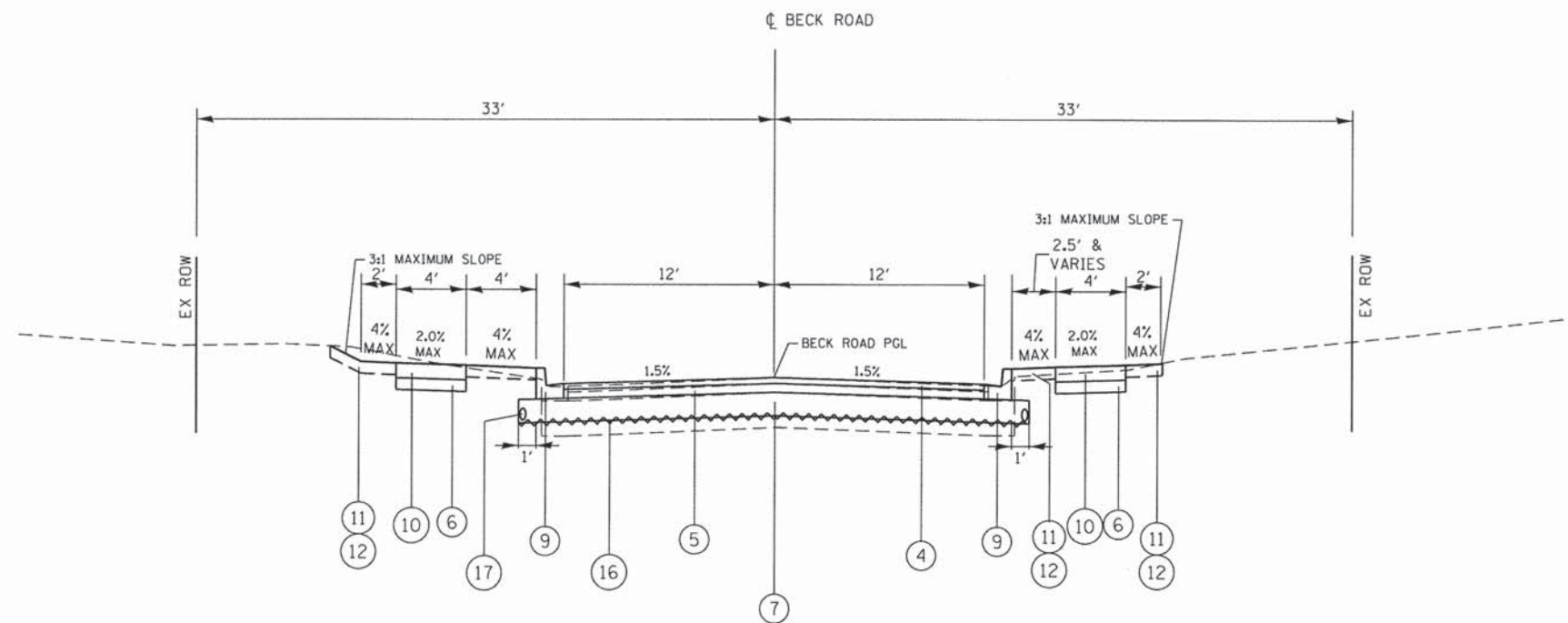
**STATE OF ILLINOIS DEPARTMENT OF TRANSPORTATION**

<b>PROPOSED TYPICAL SECTIONS</b>	
<b>BECK ROAD</b>	
SCALE: N/A	SHEET 10 OF 11 SHEETS
STA. TO STA.	

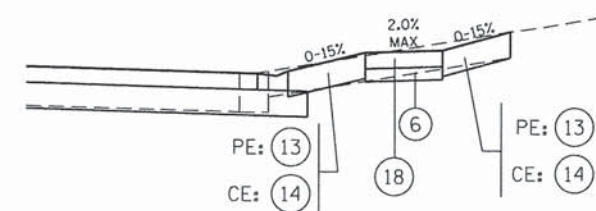
F.A.U. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
160	14-00030-00-RS	LAKE	213	19
CONTRACT NO. 61C68				
ILLINOIS FED. AID PROJECT				

**LEGEND**

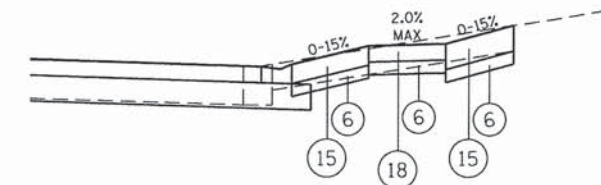
- ① EX CURB & GUTTER
- ② EX AGGREGATE BASE COURSE
- ③ EX SIDEWALK
- ④ HOT-MIX ASPHALT SURFACE COURSE, MIX "D", N50, 2"
- ⑤ HOT-MIX ASPHALT BINDER COURSE, IL-19.0, N50, 3"
- ⑥ AGGREGATE BASE COURSE, TYPE B, 4"
- ⑦ AGGREGATE SUBGRADE IMPROVEMENT, 12"
- ⑧ AGGREGATE SUBGRADE IMPROVEMENT
- ⑨ COMBINATION CONCRETE CURB & GUTTER, TYPE B6.12
- ⑩ PORTLAND CEMENT CONCRETE SIDEWALK, 5"
- ⑪ TOPSOIL FURNISH AND PLACE, 6"
- ⑫ SODDING
- ⑬ HOT-MIX ASPHALT DRIVEWAY PAVEMENT, 6"
- ⑭ HOT-MIX ASPHALT DRIVEWAY PAVEMENT, 8"
- ⑮ PORTLAND CEMENT CONCRETE DRIVEWAY PAVEMENT, 7"
- ⑯ GEOTECHNICAL FABRIC FOR GROUND STABILIZATION
- ⑰ PIPE UNDERDRAINS, 4"
- ⑱ PORTLAND CEMENT CONCRETE SIDEWALK, 7"



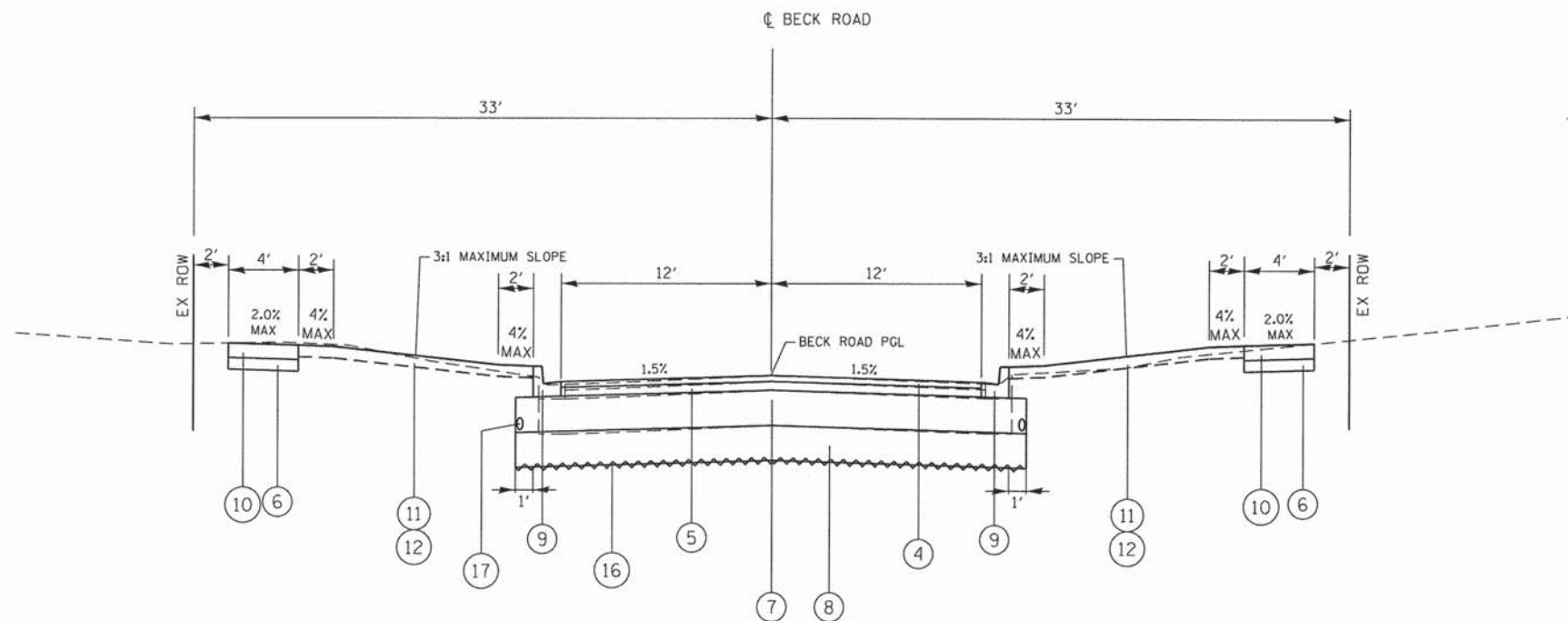
**PROPOSED TYPICAL SECTION 13**  
STA. 76+00.00 TO STA. 76+50.00



**HMA DRIVEWAY DETAIL**



**P.C.C. DRIVEWAY DETAIL**



**PROPOSED TYPICAL SECTION 14**  
STA. 90+00.00 TO STA. 91+00.00

**HOT-MIX ASPHALT MIXTURE TABLE**

	MIX TYPE	PERCENT AIR Voids @Ndes
<b>PAVEMENT RECONSTRUCTION</b>		
HOT-MIX ASPHALT SURFACE COURSE, MIX "D", N50, 2"	IL 9.5mm	4% @ 50 Gyr
HOT-MIX ASPHALT BINDER COURSE, IL-19.0, N50, 3"		4% @ 50 Gyr
<b>PAVEMENT RESURFACING</b>		
HOT-MIX ASPHALT SURFACE COURSE, MIX "D", N50, 2"	IL 9.5mm	4% @ 50 Gyr
HOT-MIX ASPHALT BINDER COURSE, IL-19.0, N50, 3"		4% @ 50 Gyr
<b>PRIVATE/COMMERCIAL ENTRANCES</b>		
HOT-MIX ASPHALT SURFACE COURSE, MIX "D", N50, 2"	IL 9.5mm	4% @ 50 Gyr
HOT-MIX ASPHALT BINDER COURSE IL-19.0, N50, 6" (8" COMMERCIAL)		4% @ 50 Gyr
CLASS "D" PATCHES, HOT MIX ASPHALT, IL-19.0, N50, 6"		4% @ 50 Gyr

THE UNIT WEIGHT USED TO CALCULATE ALL HOT-MIX ASPHALT SURFACE MIXTURES IS 112 Lbs/SqYd/in

THE "AC TYPE" SHALL BE "PG 64-22" UNLESS MODIFIED BY DISTRICT ONE SPECIAL PROVISIONS. FOR USE OF RECYCLED MATERIALS SEE SPECIAL PROVISIONS.

FILE NAME = D:\12345-TYPICAL_sheets.dgn	USER NAME = mcoleman	DESIGNED - MAC	REVISED -
DHA# 4477.025	PLOT SCALE = 1/8"	DRAWN - ZCW	REVISED -
Typicals Sheet 11	PLOT DATE = 2/9/2016	CHECKED - KLB	REVISED -
		DATE -	REVISED -

STATION	DISTANCE	EARTH EXCAVATION END AREAS (SQ FT)		TOPSOIL PLACEMENT (SQ FT)		UNSUITABLE EXCAVATION (SQ FT)	EARTH EXCAVATION AVERAGE END AREA (SQ FT)		TOPSOIL PLACEMENT AVERAGE END AREA (SQ FT)		UNSUITABLE EXCAVATION AVG END AREA (SQ FT)	EARTH EXCAVATION SECTION VOLUMES (CU YD)		TOPSOIL PLACEMENT SECTION VOLUMES (CU YD)		UNSUITABLE EXCAVATION CUMULATIVE VOLUMES (CU YD)	EARTH EXCAVATION CUMULATIVE VOLUMES (CU YD)		TOPSOIL PLACEMENT CUMULATIVE VOLUMES (CU YD)		CUMULATIVE EARTHWORK BALANCE WASTE (+) OR SHORTAGE (-)	
		CUT	FILL	CUT	FILL		CUT	FILL	CUT	FILL		CUT	FILL	CUT	FILL		CUT	FILL	CUT	FILL		CUT
5+50.00		9.74	0.18	7.99	5.67	0.00																
6+00.00	50.00	6.15	0.20	4.27	1.72	0.00	7.95	0.19	6.13	3.70	0.00	14.71	0.35	11.35	6.84	0.00	14.71	0.35	11.35	6.84	14.36	
6+50.00	50.00	0.77	0.00	1.69	1.65	0.00	3.46	0.10	2.98	1.69	0.00	6.41	0.19	5.52	3.12	0.00	21.12	0.54	16.87	9.96	20.58	
6+79.76	29.76	0.64	3.73	0.00	0.00	0.00	0.71	1.87	0.85	0.83	0.00	0.78	2.06	0.93	0.91	0.00	21.90	2.59	17.80	10.87	19.30	
7+00.00	20.24	0.89	0.11	4.25	2.20	0.00	0.77	1.92	2.13	1.10	0.00	0.57	1.44	1.59	0.82	0.00	22.47	4.03	19.39	11.70	18.44	
7+50.00	50.00	0.62	0.18	4.39	2.34	0.00	0.76	0.15	4.32	2.27	0.00	1.40	0.27	8.00	4.20	0.00	23.87	4.30	27.39	15.90	19.57	
8+00.00	50.00	0.00	1.03	4.68	2.63	0.00	0.31	0.61	4.54	2.49	0.00	0.57	1.12	8.40	4.60	0.00	24.44	5.42	35.79	20.50	19.02	
8+50.00	50.00	0.90	0.14	2.06	1.01	0.00	0.45	0.59	3.37	1.82	0.00	0.83	1.08	6.24	3.37	0.00	25.28	6.50	42.03	23.87	18.77	
8+67.56	17.56	0.07	1.26	0.00	0.00	0.00	0.49	0.70	1.03	0.51	0.00	0.32	0.46	0.67	0.33	0.00	25.59	6.96	42.70	24.20	18.63	
9+00.00	32.44	0.03	3.50	7.85	5.79	0.00	0.05	2.38	3.93	2.90	0.00	0.06	2.86	4.72	3.48	0.00	25.65	9.82	47.42	27.68	15.83	
9+16.77	16.77	0.01	1.10	0.00	0.00	0.00	0.02	2.30	3.93	2.90	0.00	0.01	1.43	2.44	1.80	0.00	25.66	11.25	49.86	29.48	14.42	
9+50.00	33.23	0.01	2.53	5.14	3.09	0.00	0.01	1.82	2.57	1.55	0.00	0.01	2.23	3.16	1.90	0.00	25.68	13.48	53.02	31.38	12.20	
10+00.00	50.00	0.87	1.21	8.51	0.00	0.00	0.44	1.87	6.83	1.55	0.00	0.81	3.46	12.64	2.86	0.00	26.49	16.94	65.66	34.24	9.55	
10+50.00	50.00	0.00	6.98	7.02	4.97	0.00	0.44	4.10	7.77	2.49	0.00	0.81	7.58	14.38	4.60	0.00	27.30	24.53	80.04	38.84	2.77	
11+00.00	50.00	0.00	7.81	7.26	5.21	0.00	0.00	7.40	7.14	5.09	0.00	0.00	13.69	13.22	9.43	0.00	27.30	38.22	93.26	48.27	-10.93	
11+50.00	50.00	0.63	0.92	8.20	6.15	0.00	0.32	4.37	7.73	5.68	0.00	0.58	8.08	14.31	10.52	0.00	27.88	46.31	107.58	58.79	-18.43	
12+00.00	50.00	0.00	0.00	0.00	0.00	0.00	0.32	0.46	4.10	3.08	0.00	0.58	0.85	7.59	5.69	0.00	28.46	47.16	115.17	64.48	-18.69	
12+50.00	50.00	0.38	0.38	4.74	2.68	0.00	0.19	0.19	2.37	1.34	0.00	0.35	0.35	4.39	2.48	0.00	28.82	47.51	119.56	66.96	-18.69	
13+00.00	50.00	0.04	0.43	4.31	2.26	0.00	0.21	0.41	4.53	2.47	0.00	0.39	0.75	8.38	4.57	0.00	29.20	48.26	127.94	71.54	-19.05	
13+50.00	50.00	0.00	2.45	5.01	2.96	0.00	0.02	1.44	4.66	2.61	0.00	0.04	2.67	8.63	4.83	0.00	29.24	50.93	136.57	76.37	-21.68	
14+00.00	50.00	0.00	4.73	5.81	3.76	0.00	0.00	3.59	5.41	3.36	0.00	0.00	6.65	10.02	6.22	0.00	29.24	57.57	146.58	82.59	-28.33	
14+50.00	50.00	0.00	4.07	5.59	3.54	0.00	0.00	4.40	5.70	3.65	0.00	0.00	8.15	10.56	6.76	0.00	29.24	65.72	157.14	89.35	-36.48	
15+00.00	50.00	0.00	10.59	8.71	6.65	0.00	0.00	7.33	7.15	5.10	0.00	0.00	13.57	13.24	9.44	0.00	29.24	79.30	170.38	98.79	-50.05	
15+50.00	50.00	0.00	0.00	0.00	0.00	0.00	0.00	5.30	4.36	3.33	0.00	0.00	9.81	8.06	6.16	0.00	29.24	89.10	178.45	104.94	-59.86	
16+00.00	50.00	0.00	13.02	7.39	5.34	0.00	0.00	6.51	3.70	2.67	0.00	0.00	12.06	6.84	4.94	0.00	29.24	101.16	185.29	109.89	-71.92	
16+50.00	50.00	0.00	4.21	5.60	3.55	0.00	0.00	8.62	6.50	4.45	0.00	0.00	15.95	12.03	8.23	0.00	29.24	117.11	197.32	118.12	-87.87	
17+00.00	50.00	0.00	0.50	3.31	1.25	0.00	0.00	2.36	4.46	2.40	0.00	0.00	4.36	8.25	4.44	0.00	29.24	121.47	205.57	122.56	-92.23	
17+39.90	39.90	0.39	0.84	0.00	0.00	0.00	0.20	0.67	1.66	0.63	0.00	0.29	0.99	2.45	0.92	0.00	29.53	122.46	208.01	123.49	-92.93	
17+50.00	10.10	0.42	0.63	4.63	2.02	0.00	0.41	0.74	2.32	1.01	0.00	0.15	0.27	0.87	0.38	0.00	29.68	122.74	208.88	123.87	-93.06	
18+00.00	50.00	0.12	2.33	5.11	5.03	0.00	0.27	1.48	4.87	3.53	0.00	0.50	2.74	9.02	6.53	0.00	30.18	125.48	217.90	130.39	-95.30	
18+50.00	50.00	11.31	0.05	8.40	6.31	0.00	5.72	1.19	6.76	5.67	0.00	10.58	2.20	12.51	10.50	0.00	40.76	127.68	230.41	140.89	-86.92	
19+00.00	50.00	0.50	0.35	2.65	2.45	0.00	5.91	0.20	5.53	4.38	0.00	10.94	0.37	10.23	8.11	0.00	51.70	128.05	240.64	149.00	-76.35	
19+50.00	50.00	0.00	0.00	0.00	0.00	0.00	0.25	0.18	1.33	1.23	0.00	0.46	0.32	2.45	2.27	0.00	52.16	128.38	243.09	151.27	-76.21	
20+00.00	50.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	52.16	128.38	243.09	151.27	-76.21	
20+50.00	50.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	52.16	128.38	243.09	151.27	-76.21	
21+00.00	50.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	52.16	128.38	243.09	151.27	-76.21	
21+50.00	50.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	52.16	128.38	243.09	151.27	-76.21	
22+00.00	50.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	52.16	128.38	243.09	151.27	-76.21	
22+50.00	50.00	0.61	8.24	13.76	11.71	0.00	0.31	4.12	6.88	5.86	0.00	0.56	7.63	12.74	10.84	0.00	52.73	136.01	255.83	162.12	-83.28	
23+00.00	50.00	0.00	3.02	5.38	3.33	0.00	0.31	5.63	9.57	7.52	0.00	0.56	10.43	17.72	13.93	0.00	53.29	146.43	273.55	176.04	-93.14	
23+50.00	50.00	0.10	0.41	4.41	2.35	0.00	0.05	1.72	4.90	2.84	0.00	0.09	3.18	9.06	5.26	0.00	53.38	149.61	282.62	181.30	-96.22	
24+00.00	50.00	0.00	3.90	4.98	2.94	0.00	0.05	2.16	4.70	2.65	0.00	0.09	3.99	8.69	4.90	0.00	53.48	153.60	291.31	186.20	-100.12	
24+35.09	35.09	0.26	0.95	0.00	0.00	0.00	0.13	2.43	2.49	1.47	0.00	0.17	3.15	3.24	1.91	0.00	53.65	156.75	294.55	188.11	-103.10	
24+50.00	14.91	2.00	2.18	0.00	3.19	0.00	1.13	1.57	0.00	1.60	0.00	0.62	0.86	0.00	0.88	0.00	54.27	157.61	294.55	188.99	-103.34	
25+00.00	50.00	0.00	1.26	0.00	0.00	0.00	1.00	1.72	0.00	1.60	0.00	1.85	3.19	0.00	2.95	0.00	56.12	160.80	294.55	191.94	-104.68	
25+08.75	8.75	0.00	1.09	0.00	0.00	0.00	0.00	1.18	0.00	0.00	0.00	0.00	0.38	0.00	0.00	0.00	56.12	161.18	294.55	191.94	-105.06	
25+50.00	41.25	0.00	15.49	7.18	5.13	0.00	0.00	8.29	3.59	2.57	0.00	0.00	12.67	5.48	3.92	0.00	56.12	173.85	300.03	195.86	-117.72	
26+00.00	50.00	0.00	11.71	7.25	5.20	0.00	0.00	13.60	7.22	5.17	0.00	0.00	25.19	13.36	9.56	0.00	56.12	199.03	313.40	205.43	-142.91	
26+50.00	50.00	0.34	0.60	0.00	0.00	0.00	0.17	6.16	3.63	2.60	0.00	0.31	11.40	6.71	4.81	0.00	56.44	210.43	320.11	210.24	-153.99	
27+00.00	50.00	0.02	3.46	5.99	3.95	0.00	0.18	2.03	3.00	1.98	0.00	0.33	3.76	5.55	3.66	0.00	56.77	214.19	325.65	213.90	-157.42	
27+17.17	17.17	0.00	2.34	0.00	0.00	0.00	0.01	2.90	3.00	1.98	0.00	0.01	1.84	1.90	1.26	0.00	56.78	216.03	327.56	215.16	-159.26	
27+50.00	32.83	0.01	9.43	6.75	4.70	0.00	0.01	5.89	3.38	2.35	0.00	0.01	7.16	4.10	2.86	0.00	56.78	223.19	331.66	218.01	-166.40	
27+83.97	33.97	0.13	1.04	0.00	0.00	0.00	0.07	5.24	3.38	2.35	0.00	0.09	6.59	4.25	2.96	0.00	56.87	229.77	335.91	220.97	-172.90	
28+00.00	16.03	0.03	1.14	5.80	3.75	0.00	0.08	1.09	2.90	1.88	0.00	0.05	0.65	1.72	1.11	0.00	56.92	230.42	337.63	222.08	-173.50	
28+50.00	50.00	0.07	1.03	0.00	0.00	0.00	0.05	1.09	2.90	1.88	0.00	0.09	2.01	5.37	3.47	0.00	57.01	232.43	343.00	225.56	-175.42	
28+83.36	33.36	0.00	1.48	0.00	0.00	0.00	0.04	1.26	0.00	0.00	0.00	0.04	1.55	0.00	0							

STATION	DISTANCE	EARTH EXCAVATION END AREAS (SQ FT)		TOPSOIL PLACEMENT (SQ FT)		UNSUITABLE EXCAVATION (SQ FT)	EARTH EXCAVATION AVERAGE END AREA (SQ FT)		TOPSOIL PLACEMENT AVERAGE END AREA (SQ FT)		UNSUITABLE EXCAVATION AVG END AREA (SQ FT)	EARTH EXCAVATION SECTION VOLUMES (CU YD)		TOPSOIL PLACEMENT SECTION VOLUMES (CU YD)		UNSUITABLE EXCAVATION CUMULATIVE VOLUMES (CU YD)	EARTH EXCAVATION CUMULATIVE VOLUMES (CU YD)		TOPSOIL PLACEMENT CUMULATIVE VOLUMES (CU YD)		CUMULATIVE EARTHWORK BALANCE WASTE (+) OR SHORTAGE (-)
		CUT	FILL	CUT	FILL		CUT	FILL	CUT	FILL		CUT	FILL	CUT	FILL		CUT	FILL	CUT	FILL	
34+50.00	50.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	59.43	336.00	449.04	301.97	-276.57
35+00.00	50.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	59.43	336.00	449.04	301.97	-276.57
35+50.00	50.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	59.43	336.00	449.04	301.97	-276.57
36+00.00	50.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	59.43	336.00	449.04	301.97	-276.57
36+50.00	50.00	0.07	2.13	5.98	3.94	0.00	0.04	1.07	2.99	1.97	0.00	0.06	1.97	5.54	3.65	0.00	59.50	337.98	454.58	305.62	-278.48
37+00.00	50.00	0.00	2.10	6.46	4.36	0.00	0.04	2.12	6.22	4.15	0.00	0.06	3.92	11.52	7.69	0.00	59.56	341.89	466.10	313.31	-282.33
37+50.00	50.00	0.00	8.83	7.30	4.27	0.00	0.00	5.47	6.88	4.32	0.00	0.00	10.12	12.74	7.99	0.00	59.56	352.01	478.84	321.30	-292.45
38+00.00	50.00	0.00	2.13	5.02	2.78	0.00	0.00	5.48	6.16	3.53	0.00	0.00	10.15	11.41	6.53	0.00	59.56	362.16	490.24	327.83	-302.60
38+50.00	50.00	0.00	2.02	5.22	3.16	0.00	0.00	2.08	5.12	2.97	0.00	0.00	3.84	9.48	5.50	0.00	59.56	366.00	499.72	333.33	-306.44
39+00.00	50.00	0.08	0.25	4.82	2.77	0.00	0.04	1.14	5.02	2.97	0.00	0.07	2.10	9.30	5.49	0.00	59.64	368.11	509.02	338.82	-308.47
39+50.00	50.00	0.00	1.81	5.24	3.19	0.00	0.04	1.03	5.03	2.98	0.00	0.07	1.91	9.31	5.52	0.00	59.71	370.01	518.34	344.34	-310.30
40+00.00	50.00	0.00	2.93	5.52	3.47	0.00	0.00	2.37	5.38	3.33	0.00	0.00	4.39	9.96	6.17	0.00	59.71	374.40	528.30	350.50	-314.69
40+50.00	50.00	0.00	3.98	6.02	3.97	0.00	0.00	3.46	5.77	3.72	0.00	0.00	6.40	10.69	6.89	0.00	59.71	380.80	538.98	357.39	-321.09
41+00.00	50.00	0.08	4.82	6.91	4.87	0.00	0.04	4.40	6.47	4.42	0.00	0.07	8.15	11.97	8.19	0.00	59.79	388.95	550.96	365.58	-329.16
41+50.00	50.00	0.00	7.86	7.83	5.78	0.00	0.04	6.34	7.37	5.33	0.00	0.07	11.74	13.65	9.86	0.00	59.86	400.69	564.60	375.44	-340.83
42+00.00	50.00	0.00	8.36	7.26	5.21	0.00	0.00	8.11	7.55	5.50	0.00	0.00	15.02	13.97	10.18	0.00	59.86	415.71	578.58	385.61	-355.85
42+50.00	50.00	0.00	5.52	6.47	4.42	0.00	0.00	6.94	6.87	4.82	0.00	0.00	12.85	12.71	8.92	0.00	59.86	428.56	591.29	394.53	-368.70
43+00.00	50.00	0.00	7.16	7.59	5.54	0.00	0.00	6.34	7.03	4.98	0.00	0.00	11.74	13.02	9.22	0.00	59.86	440.30	604.31	403.75	-380.44
43+50.00	50.00	0.00	7.05	7.38	5.32	0.00	0.00	7.11	7.49	5.43	0.00	0.00	13.16	13.86	10.06	0.00	59.86	453.46	618.17	413.81	-393.60
44+00.00	50.00	0.00	6.10	6.63	4.58	0.00	0.00	6.58	7.01	4.95	0.00	0.00	12.18	12.97	9.17	0.00	59.86	465.63	631.14	422.97	-405.77
44+50.00	50.00	0.00	5.17	7.45	5.41	0.00	0.00	5.64	7.04	5.00	0.00	0.00	10.44	13.04	9.25	0.00	59.86	476.07	644.18	432.22	-416.21
45+00.00	50.00	0.00	7.05	8.68	6.63	0.00	0.00	6.11	8.07	6.02	0.00	0.00	11.31	14.94	11.15	0.00	59.86	487.38	659.11	443.37	-427.52
45+50.00	50.00	3.23	0.22	6.46	4.41	0.00	1.62	3.64	7.57	5.52	0.00	2.99	6.73	14.02	10.22	0.00	62.85	494.12	673.13	453.59	-431.26
46+00.00	50.00	0.00	0.00	0.00	0.00	0.00	1.62	0.11	3.23	2.21	0.00	2.99	0.20	5.98	4.08	0.00	65.84	494.32	679.11	457.68	-428.48
46+50.00	50.00	3.91	31.37	13.54	11.92	30.13	1.96	15.69	6.77	5.96	15.07	3.62	29.05	12.54	11.04	27.90	69.46	523.37	691.65	468.72	-453.90
47+00.00	50.00	4.98	18.96	10.43	9.47	29.44	4.45	25.17	11.99	10.70	29.79	8.23	46.60	22.19	19.81	55.16	77.69	569.97	713.85	488.52	-492.27
47+50.00	50.00	4.98	20.78	10.39	9.31	28.03	4.98	19.87	10.41	9.39	28.74	9.22	36.80	19.28	17.39	53.21	86.92	606.76	733.12	505.91	-519.85
48+00.00	50.00	14.54	22.52	15.22	13.87	27.65	9.76	21.65	12.81	11.59	27.84	18.07	40.09	23.71	21.46	51.56	104.99	646.86	756.84	527.37	-541.87
48+50.00	50.00	15.03	22.58	8.58	6.85	27.60	14.79	22.55	11.90	10.36	27.63	17.38	41.76	22.04	19.19	51.16	132.37	688.62	778.87	546.56	-556.25
49+00.00	50.00	17.32	49.15	8.84	7.05	56.22	16.18	35.87	8.71	6.95	41.91	29.95	66.42	16.13	12.87	77.61	162.32	755.03	795.00	559.43	-592.71
49+50.00	50.00	20.49	26.87	14.48	12.46	27.17	18.91	38.01	11.66	9.76	41.70	35.01	70.39	21.59	18.06	77.21	197.33	825.42	816.60	577.49	-628.09
50+00.00	50.00	17.05	32.26	8.66	6.83	27.37	18.77	29.57	11.57	9.65	27.27	34.76	54.75	21.43	17.86	50.50	232.09	880.17	838.02	595.35	-648.08
50+06.83	6.83	16.81	7.07	8.69	6.85	0.00	16.93	19.67	8.68	6.84	13.69	4.28	4.97	2.19	1.73	3.46	236.37	885.15	840.22	597.08	-648.77
50+50.00	43.17	16.89	2.24	8.27	6.36	0.00	16.85	4.66	8.48	6.61	0.00	26.94	7.44	13.56	10.56	0.00	263.32	892.59	853.77	607.65	-629.27
51+00.00	50.00	14.54	2.19	11.61	9.68	0.00	15.72	2.22	9.94	8.02	0.00	29.10	4.10	18.41	14.85	0.00	292.42	896.69	872.18	622.50	-604.27
51+50.00	50.00	12.76	6.20	13.30	11.53	0.00	13.65	4.20	12.46	10.61	0.00	25.28	7.77	23.06	19.64	0.00	317.70	904.46	895.25	642.14	-586.76
52+00.00	50.00	8.33	12.21	14.87	13.15	0.00	10.55	9.21	14.09	12.34	0.00	19.53	17.05	26.08	22.85	0.00	337.22	921.50	921.33	664.99	-584.28
52+50.00	50.00	0.80	24.03	14.52	12.81	0.00	4.57	18.12	14.70	12.98	0.00	8.45	33.56	27.21	24.04	0.00	345.68	955.06	948.54	689.02	-609.38
53+00.00	50.00	5.12	12.00	11.70	11.36	0.00	2.96	18.02	13.11	12.09	0.00	5.48	33.36	24.28	22.38	0.00	351.16	988.42	972.82	711.40	-637.26
53+50.00	50.00	13.63	5.19	2.02	1.95	0.00	9.38	8.60	6.86	6.66	0.00	17.36	15.92	12.70	12.32	0.00	368.52	1004.34	985.52	723.73	-635.82
54+00.00	50.00	24.13	0.56	2.03	1.94	0.00	18.88	2.88	2.03	1.95	0.00	34.96	5.32	3.75	3.60	0.00	403.48	1009.66	989.27	727.33	-606.18
54+50.00	50.00	31.94	0.91	6.74	3.43	0.00	28.04	0.74	4.39	2.69	0.00	51.92	1.36	8.12	4.97	0.00	455.40	1011.02	997.39	732.30	-555.62
55+00.00	50.00	11.28	5.15	5.81	9.28	0.00	21.61	3.03	6.28	6.36	0.00	40.02	5.61	11.62	11.77	0.00	495.42	1016.63	1009.01	744.07	-521.22
55+50.00	50.00	5.48	14.81	14.39	12.16	0.00	8.38	9.98	10.10	10.72	0.00	15.52	18.48	18.70	19.85	0.00	510.94	1035.12	1027.72	763.92	-524.18
56+00.00	50.00	7.26	5.39	8.37	5.44	0.00	6.37	10.10	11.38	8.80	0.00	11.80	18.70	21.07	16.30	0.00	522.73	1053.82	1048.79	780.22	-531.09
56+50.00	50.00	5.49	5.54	6.71	4.52	0.00	6.38	5.47	7.54	4.98	0.00	11.81	10.12	13.96	9.22	0.00	534.54	1063.94	1062.76	789.44	-529.40
57+00.00	50.00	10.35	6.03	9.03	7.05	0.00	7.92	5.79	7.87	5.79	0.00	14.67	10.71	14.57	10.71	0.00	549.21	1074.65	1077.33	800.15	-525.45
57+50.00	50.00	14.88	2.48	9.36	7.28	0.00	12.62	4.26	9.20	7.17	0.00	23.36	7.88	17.03	13.27	0.00	572.57	1082.53	1094.36	813.42	-509.97
57+64.86	14.86	16.99	0.00	0.00	0.40	0.00	15.94	1.24	4.68	3.84	0.00	8.77	0.68	2.58	2.11	0.00	581.34	1083.21	1096.93	815.54	-501.88
58+00.00	35.14	31.86	0.81	5.90	4.12	0.00	24.43	0.41	2.95	2.26	0.00	31.79	0.53	3.84	2.94	0.00	613.12	1083.74	1100.77	818.48	-470.62
58+50.00	50.00	14.59	4.68	7.60	4.74	0.00	23.23	2.75	6.75	4.43	0.00	43.01	5.08	12.50	8.20	0.00	656.13	1088.83	1113.27	826.68	-432.69
59+00.00	50.00	16.11	4.82	9.67	7.42	0.00	15.35	4.75	8.64	6.08	0.00	28.43	8.80	15.99	11.26	0.00	684.56	1097.62	1129.26	837.94	-413.06
59+50.00	50.00	0.00	0.00	0.00	0.00	0.00	8.06	2.41	4.84	3.71	0.00	14.92	4.46	8.95	6.87	0.00	699.48	1102.08	1138.22	844.81	-402.61
60+00.00	50.00	17.45	2.99	6.76	4.78	0.00	8.73	1.50	3.38	2.39	0.00	16.16	2.77	6.26	4.43	0.00	715.63	1104.85	1144.48	849.24	-389.22

STATION	DISTANCE	EARTH EXCAVATION END AREAS (SQ FT)		TOPSOIL PLACEMENT (SQ FT)		UNSUITABLE EXCAVATION (SQ FT)	EARTH EXCAVATION AVERAGE END AREA (SQ FT)		TOPSOIL PLACEMENT AVERAGE END AREA (SQ FT)		UNSUITABLE EXCAVATION AVG END AREA (SQ FT)	EARTH EXCAVATION SECTION VOLUMES (CU YD)		TOPSOIL PLACEMENT SECTION VOLUMES (CU YD)		UNSUITABLE EXCAVATION CUMULATIVE VOLUMES (CU YD)	EARTH EXCAVATION CUMULATIVE VOLUMES (CU YD)		TOPSOIL PLACEMENT CUMULATIVE VOLUMES (CU YD)		CUMULATIVE EARTHWORK BALANCE WASTE (+) OR SHORTAGE (-)
		CUT	FILL	CUT	FILL		CUT	FILL	CUT	FILL		CUT	FILL	CUT	FILL		CUT	FILL	CUT	FILL	
64+00.00	21.73	11.62	7.32	12.88	8.88	0.00	9.47	5.70	10.20	7.21	0.00	7.62	4.59	8.21	5.80	0.00	889.76	1167.73	1266.77	937.99	-277.97
64+14.08	14.08	5.77	4.21	5.60	3.52	0.00	8.70	5.77	9.24	6.20	0.00	4.53	3.01	4.82	3.23	0.00	894.30	1170.73	1271.59	941.22	-276.44
64+25.45	11.37	6.71	6.24	5.65	3.68	0.00	6.24	5.23	5.63	3.60	0.00	2.63	2.20	2.37	1.52	0.00	896.92	1172.93	1273.96	942.73	-276.01
64+50.00	24.55	9.45	6.68	12.60	8.58	0.00	8.08	6.46	9.13	6.13	0.00	7.35	5.87	8.30	5.57	0.00	904.27	1178.81	1282.25	948.31	-274.54
64+94.64	44.64	4.48	7.04	6.99	5.04	0.00	6.97	6.86	9.80	6.81	0.00	11.52	11.34	16.19	11.26	0.00	915.79	1190.15	1298.45	959.57	-274.36
65+00.00	5.36	8.24	5.83	6.51	4.59	0.00	6.36	6.44	6.75	4.82	0.00	1.26	1.28	1.34	0.96	0.00	917.05	1191.43	1299.79	960.52	-274.38
65+25.86	25.86	12.21	0.65	6.51	4.28	0.00	10.23	3.24	6.51	4.44	0.00	9.79	3.10	6.24	4.25	0.00	926.84	1194.53	1306.02	964.77	-267.69
65+35.07	9.21	14.25	0.24	4.38	0.00	0.00	13.23	0.45	5.45	2.14	0.00	4.51	0.15	1.86	0.73	0.00	931.35	1194.68	1307.88	965.50	-263.33
65+50.00	14.93	13.95	2.09	13.79	9.71	0.00	14.10	1.17	9.09	4.86	0.00	7.80	0.64	5.02	2.68	0.00	939.15	1195.33	1312.90	968.19	-256.18
65+92.89	42.89	2.81	23.94	8.19	6.11	0.00	8.38	13.02	10.99	7.91	0.00	13.31	20.67	17.46	12.57	0.00	952.46	1216.00	1330.36	980.75	-263.54
66+00.00	7.11	3.01	9.48	0.00	0.00	0.00	2.91	16.71	4.10	3.06	0.00	0.77	4.40	1.08	0.80	0.00	953.23	1220.40	1331.44	981.56	-267.17
66+03.32	3.32	5.79	10.06	7.94	5.80	0.00	4.40	9.77	3.97	2.90	0.00	0.54	1.20	0.49	0.36	0.00	953.77	1221.60	1331.93	981.91	-267.83
66+45.75	42.43	17.64	1.26	5.56	3.51	0.00	11.72	5.66	6.75	4.66	0.00	18.41	8.89	10.61	7.32	0.00	972.18	1230.50	1342.54	989.23	-258.32
66+50.00	4.25	12.44	5.28	6.30	4.24	0.00	15.04	3.27	5.93	3.88	0.00	2.37	0.51	0.93	0.61	0.00	974.55	1231.01	1343.47	989.84	-256.46
66+98.80	48.80	4.45	7.63	9.58	7.71	0.00	8.45	6.46	7.94	5.98	0.00	15.26	11.67	14.35	10.80	0.00	989.81	1242.68	1357.82	1000.64	-252.87
67+00.00	1.20	6.14	9.11	8.00	5.99	0.00	5.30	8.37	8.79	6.85	0.00	0.24	0.37	0.39	0.30	0.00	990.05	1243.05	1358.21	1000.94	-253.00
67+45.09	45.09	1.78	10.38	9.71	7.70	0.00	3.96	9.75	8.86	6.85	0.00	6.61	16.27	14.79	11.43	0.00	996.66	1259.33	1373.00	1012.37	-262.67
67+50.00	4.91	2.97	9.21	11.43	7.71	0.00	2.38	9.80	10.57	7.71	0.00	0.43	1.78	1.92	1.40	0.00	997.09	1261.11	1374.92	1013.77	-264.01
68+00.00	50.00	5.23	1.56	12.19	9.95	0.00	4.10	5.39	11.81	8.83	0.00	7.59	9.97	21.87	16.35	0.00	1004.68	1271.08	1396.79	1030.12	-266.39
68+50.00	50.00	26.38	2.32	7.63	5.79	0.00	15.81	1.94	9.91	7.87	0.00	29.27	3.59	18.35	14.57	0.00	1033.95	1274.67	1415.14	1044.70	-240.72
69+00.00	50.00	20.41	2.96	7.52	5.69	0.00	23.40	2.64	7.58	5.74	0.00	43.32	4.89	14.03	10.63	0.00	1077.28	1279.56	1429.17	1055.33	-202.28
69+01.53	1.53	7.41	5.84	12.10	8.25	0.00	13.91	4.40	9.81	6.97	0.00	0.79	0.25	0.56	0.39	0.00	1078.07	1279.81	1429.73	1055.72	-201.74
69+50.00	48.47	18.64	5.11	5.63	3.58	0.00	13.03	5.48	8.87	5.92	0.00	23.38	9.83	15.91	10.62	0.00	1101.45	1289.64	1445.64	1066.34	-188.19
69+67.94	17.94	5.38	2.85	0.00	0.00	0.00	12.01	3.98	2.82	1.79	0.00	7.98	2.64	1.87	1.19	0.00	1109.43	1292.28	1447.51	1067.53	-182.86
69+94.70	26.76	4.09	1.79	0.00	0.00	0.00	4.74	2.32	0.00	0.00	0.00	4.69	2.30	0.00	0.00	0.00	1114.12	1294.58	1447.51	1067.53	-180.46
70+00.00	5.30	16.07	3.40	0.00	0.00	0.00	10.08	2.60	0.00	0.00	0.00	1.98	0.51	0.00	0.00	0.00	1116.10	1295.09	1447.51	1067.53	-178.99
70+04.15	4.15	5.49	1.74	10.69	6.93	0.00	10.78	2.57	5.35	3.47	0.00	1.66	0.40	0.82	0.53	0.00	1117.76	1295.49	1448.33	1068.06	-177.73
70+50.00	45.85	13.57	0.92	7.90	5.67	0.00	9.53	1.33	9.30	6.30	0.00	16.18	2.26	15.78	10.70	0.00	1133.94	1297.75	1464.12	1078.76	-163.81
70+87.01	37.01	8.83	1.91	12.50	8.47	0.00	11.20	1.42	10.20	7.07	0.00	15.35	1.94	13.98	9.69	0.00	1149.29	1299.68	1478.10	1088.45	-150.39
71+00.00	12.99	19.13	1.66	4.27	2.28	0.00	13.98	1.79	8.39	5.38	0.00	6.73	0.86	4.03	2.59	0.00	1156.02	1300.54	1482.13	1091.04	-144.53
71+22.31	22.31	6.54	1.43	9.89	5.95	0.00	12.84	1.55	7.08	4.12	0.00	10.61	1.28	5.85	3.40	0.00	1166.62	1301.82	1487.98	1094.44	-135.20
71+50.00	27.69	15.86	0.54	8.63	6.68	0.00	11.20	0.99	9.26	6.32	0.00	11.49	1.01	9.50	6.48	0.00	1178.11	1302.83	1497.48	1100.92	-124.72
71+89.91	39.91	13.67	1.26	11.77	7.68	0.00	14.77	0.90	10.20	7.18	0.00	21.82	1.33	15.08	10.61	0.00	1199.93	1304.16	1512.56	1111.53	-104.23
72+00.00	10.09	23.02	4.49	5.30	3.15	0.00	18.35	2.88	8.54	5.42	0.00	6.86	1.07	3.19	2.02	0.00	1206.79	1305.24	1515.75	1113.55	-98.45
72+18.40	18.40	4.40	1.42	7.26	5.53	0.00	13.71	2.96	6.28	4.34	0.00	9.34	2.01	4.28	2.96	0.00	1216.13	1307.25	1520.03	1116.51	-91.12
72+46.36	27.96	6.40	0.84	7.23	5.62	0.00	5.40	1.13	7.25	5.58	0.00	5.59	1.17	7.50	5.77	0.00	1221.72	1308.42	1527.53	1122.28	-86.69
72+50.00	3.64	21.25	2.53	4.62	3.04	0.00	13.83	1.69	5.93	4.33	0.00	1.86	0.23	0.80	0.58	0.00	1223.59	1308.65	1528.33	1122.87	-85.06
73+00.00	50.00	17.51	2.84	0.00	0.00	0.00	19.38	2.69	2.31	1.52	0.00	35.89	4.97	4.28	2.81	0.00	1259.48	1313.62	1532.60	1125.68	-54.14
73+08.90	8.90	4.39	2.94	10.28	6.48	0.00	10.95	2.89	5.14	3.24	0.00	3.61	0.95	1.69	1.07	0.00	1263.09	1314.57	1534.30	1126.75	-51.48
73+50.00	41.10	16.54	2.50	6.01	3.60	0.00	10.47	2.72	8.15	5.04	0.00	15.93	4.14	12.40	7.67	0.00	1279.02	1318.71	1546.70	1134.42	-39.69
73+70.98	20.98	8.87	5.20	11.42	7.70	0.00	12.71	3.85	8.72	5.65	0.00	9.87	2.99	6.77	4.39	0.00	1288.89	1321.70	1553.47	1138.81	-32.81
74+00.00	29.02	20.39	4.78	5.82	3.61	0.00	14.63	4.99	8.62	5.66	0.00	15.72	5.36	9.26	6.08	0.00	1304.61	1327.07	1562.73	1144.89	-22.45
74+26.69	26.69	7.82	5.45	11.16	7.03	0.00	14.11	5.12	8.49	5.32	0.00	13.94	5.06	8.39	5.26	0.00	1318.56	1332.12	1571.13	1150.15	-13.57
74+50.00	23.31	14.05	4.55	5.71	3.72	0.00	10.94	5.00	8.44	5.38	0.00	9.44	4.32	7.28	4.64	0.00	1328.00	1336.44	1578.41	1154.79	-8.44
74+60.68	10.68	2.54	12.15	6.55	4.22	0.00	8.30	8.35	6.13	3.97	0.00	3.28	3.30	2.42	1.57	0.00	1331.28	1339.74	1580.83	1156.36	-8.46
74+98.13	37.45	2.75	8.79	6.34	4.30	0.00	2.65	10.47	6.45	4.26	0.00	3.67	14.52	8.94	5.91	0.00	1334.95	1354.26	1589.77	1162.27	-19.32
75+00.00	1.87	10.47	3.66	12.11	8.05	0.00	6.61	6.23	9.23	6.18	0.00	0.46	0.43	0.64	0.43	0.00	1335.41	1354.70	1590.41	1162.70	-19.29
75+50.00	50.00	13.22	3.68	8.46	5.54	0.00	11.85	3.67	10.29	6.80	0.00	21.94	6.80	19.05	12.58	0.00	1357.34	1361.49	1609.46	1175.28	-4.15
75+74.72	24.72	8.59	3.24	5.44	4.27	0.00	10.91	3.46	6.95	4.91	0.00	9.98	3.17	6.36	4.49	0.00	1367.32	1364.66	1615.82	1179.77	2.66
75+88.86	14.14	7.19	2.08	11.99	7.88	0.00	7.89	2.66	8.72	6.08	0.00	4.13	1.39	4.56	3.18	0.00	1371.46	1366.05	1620.39	1182.95	5.40
76+00.00	11.14	15.70	3.45	9.18	6.14	0.00	11.45	2.77	10.59	7.01	0.00	4.72	1.14	4.37	2.89	0.00	1376.18	1367.19	1624.75	1185.84	8.98
76+19.97	19.97	11.69	2.17	12.83	8.75	0.00	13.70	2.81	11.01	7.45	0.00	10.13	2.08	8.14	5.51	0.00	1386.31	1369.27	1632.89	1191.35	17.04
76+50.00	30.03	18.81	2.47	0.00	0.00	0.00	15.25	2.32	6.42	4.38	0.00	16.96	2.58	7.14	4.87	0.00	1403.27	1371.85	1640.03	1196.22	31.42
76+86.16	36.16	4.28	3.07	5.37	3.76	0.00															

STATION	DISTANCE	EARTH EXCAVATION END AREAS (SQ FT)		TOPSOIL PLACEMENT (SQ FT)		UNSUITABLE EXCAVATION (SQ FT)	EARTH EXCAVATION AVERAGE END AREA (SQ FT)		TOPSOIL PLACEMENT AVERAGE END AREA (SQ FT)		UNSUITABLE EXCAVATION AVG END AREA (SQ FT)	EARTH EXCAVATION SECTION VOLUMES (CU YD)		TOPSOIL PLACEMENT SECTION VOLUMES (CU YD)		UNSUITABLE EXCAVATION CUMULATIVE VOLUMES (CU YD)	EARTH EXCAVATION CUMULATIVE VOLUMES (CU YD)		TOPSOIL PLACEMENT CUMULATIVE VOLUMES (CU YD)		CUMULATIVE EARTHWORK BALANCE WASTE (+) OR SHORTAGE (-)
		CUT	FILL	CUT	FILL		CUT	FILL	CUT	FILL		CUT	FILL	CUT	FILL		CUT	FILL	CUT	FILL	
81+50.00	50.00	10.08	6.52	7.17	7.14	0.00	10.34	6.95	6.30	5.22	0.00	19.15	12.86	11.67	9.66	0.00	1597.42	1477.58	1760.63	1293.85	119.83
81+55.23	5.23	3.22	10.22	7.27	7.16	0.00	6.65	8.37	7.22	7.15	0.00	1.29	1.62	1.40	1.38	0.00	1598.70	1479.21	1762.03	1295.24	119.50
82+00.00	44.77	12.67	4.69	6.58	4.51	0.00	7.95	7.46	6.93	5.84	0.00	13.17	12.36	11.48	9.68	0.00	1611.88	1491.57	1773.52	1304.92	120.31
82+02.86	2.86	3.15	5.25	5.43	3.42	0.00	7.91	4.97	6.01	3.97	0.00	0.84	0.53	0.64	0.42	0.00	1612.72	1492.09	1774.15	1305.34	120.62
82+26.36	23.50	3.89	4.64	6.94	6.92	0.00	3.52	4.95	6.19	5.17	0.00	3.06	4.30	5.38	4.50	0.00	1615.78	1496.40	1779.53	1309.83	119.38
82+50.00	23.64	13.48	9.36	16.02	13.91	0.00	8.69	7.00	11.48	10.42	0.00	7.60	6.13	10.05	9.12	0.00	1623.38	1502.53	1789.59	1318.95	120.86
82+78.04	28.04	4.57	3.27	5.71	3.65	0.00	9.03	6.32	10.87	8.78	0.00	9.37	6.56	11.28	9.12	0.00	1632.76	1509.08	1800.87	1328.07	123.67
82+98.12	20.08	3.35	4.05	7.21	7.12	0.00	3.96	3.66	6.46	5.39	0.00	2.95	2.72	4.80	4.00	0.00	1635.70	1511.81	1805.67	1332.08	123.90
83+00.00	1.88	2.47	21.17	7.21	7.14	27.42	2.91	12.61	7.21	7.13	13.71	0.20	0.88	0.50	0.50	0.95	1635.90	1512.68	1806.18	1332.57	123.22
83+50.00	50.00	1.86	22.04	11.46	9.21	27.38	2.17	21.61	9.34	8.18	27.40	4.01	40.01	17.29	15.14	50.74	1639.91	1552.69	1823.46	1347.71	87.22
83+73.24	23.24	6.14	2.87	7.33	7.15	2.18	4.00	12.46	9.40	8.18	14.78	3.44	10.72	8.09	7.04	12.72	1643.36	1563.41	1831.55	1354.75	79.94
83+86.96	13.72	5.61	2.40	6.82	4.75	27.22	5.88	2.64	7.08	5.95	14.70	2.99	1.34	3.60	3.02	7.47	1646.34	1564.75	1835.15	1357.78	81.59
84+00.00	13.04	1.87	24.66	17.40	15.24	27.32	3.74	13.53	12.11	10.00	27.27	1.81	6.53	5.85	4.83	13.17	1648.15	1571.29	1840.99	1362.60	76.86
84+33.96	33.96	5.02	2.24	7.13	7.09	4.55	3.45	13.45	12.27	11.17	15.94	4.33	16.92	15.43	14.04	20.04	1652.48	1588.20	1856.42	1376.65	64.28
84+50.00	16.04	2.07	17.49	12.43	10.22	27.35	3.55	9.87	9.78	8.66	15.95	2.11	5.86	5.81	5.14	9.48	1654.59	1594.07	1862.23	1381.79	60.52
84+73.44	23.44	4.14	2.38	4.24	2.00	4.56	3.11	9.94	8.34	6.11	15.96	2.70	8.63	7.24	5.30	13.85	1657.28	1602.69	1869.47	1387.09	54.59
85+00.00	26.56	2.58	15.63	13.07	10.87	27.34	3.36	9.01	8.66	6.44	15.95	3.31	8.86	8.51	6.33	15.69	1660.59	1611.55	1877.98	1393.42	49.04
85+11.77	11.77	6.16	1.25	0.00	0.00	4.56	4.37	8.44	6.54	5.44	15.95	1.90	3.68	2.85	2.37	6.95	1662.49	1615.23	1880.83	1395.79	47.27
85+50.00	38.23	2.08	17.89	13.01	10.78	27.32	4.12	9.57	6.51	5.39	15.94	5.83	13.55	9.21	7.63	22.57	1668.33	1628.78	1890.04	1403.42	39.55
85+99.28	49.28	4.99	2.75	6.11	7.04	4.54	3.54	10.32	9.56	8.91	15.93	6.45	18.84	17.45	16.26	29.08	1674.78	1647.61	1907.49	1419.69	27.16
86+00.00	0.72	3.11	13.98	5.35	7.07	27.23	4.05	8.37	5.73	7.06	15.89	0.11	0.22	0.15	0.19	0.42	1674.89	1647.84	1907.64	1419.87	27.05
86+09.51	9.51	7.41	1.38	4.07	2.00	4.54	5.26	7.68	4.71	4.54	15.89	1.85	2.71	1.66	1.60	5.60	1676.74	1650.54	1909.30	1421.47	26.20
86+50.00	40.49	4.23	15.37	4.08	2.08	27.21	5.82	8.38	4.08	2.04	15.88	8.73	12.56	6.11	3.06	23.81	1685.47	1663.10	1915.41	1424.53	22.37
86+58.44	8.44	7.02	1.70	4.00	1.99	4.54	5.63	8.54	4.04	2.04	15.88	1.76	2.67	1.26	0.64	4.96	1687.23	1665.77	1916.67	1425.17	21.46
86+72.75	14.31	4.50	2.61	7.13	7.00	4.53	5.76	2.16	5.57	4.50	4.54	3.05	1.14	2.95	2.38	2.40	1690.28	1666.91	1919.62	1427.55	23.37
87+00.00	27.25	2.66	15.74	12.13	9.86	27.08	3.58	9.18	9.63	8.43	15.81	3.61	9.26	9.72	8.51	15.95	1693.89	1676.17	1929.34	1436.06	17.72
87+34.57	34.57	6.75	1.23	5.66	3.52	4.50	4.71	8.49	8.90	6.69	15.79	6.02	10.86	11.39	8.57	20.22	1699.92	1687.04	1940.73	1444.62	12.88
87+47.53	12.96	6.81	2.83	7.05	7.00	4.49	6.78	2.03	6.36	5.26	4.50	3.25	0.97	3.05	2.52	2.16	1703.17	1688.01	1943.78	1447.15	15.16
87+50.00	2.47	4.93	16.44	7.03	7.05	26.94	5.87	9.64	7.04	7.03	15.72	0.54	0.88	0.64	0.64	1.44	1703.71	1688.89	1944.43	1447.79	14.82
88+00.00	50.00	2.24	19.07	10.89	8.79	27.20	3.59	17.76	8.96	7.92	27.07	6.64	32.88	16.59	14.67	50.13	1710.35	1721.77	1961.02	1462.46	-11.43
88+18.82	18.82	4.16	6.62	6.90	6.52	4.45	3.20	12.85	8.90	7.66	15.83	2.23	8.95	6.20	5.34	11.03	1712.58	1730.72	1967.22	1467.79	-18.15
88+50.00	31.18	2.03	22.03	11.83	9.71	27.20	3.10	14.33	9.37	8.12	15.83	3.57	16.54	10.81	9.37	18.27	1716.15	1747.27	1978.03	1477.16	-31.12
88+97.51	47.51	3.36	4.99	6.70	6.48	4.50	2.70	13.51	9.27	8.10	15.85	4.74	23.77	16.30	14.24	27.89	1720.89	1771.04	1994.34	1491.41	-50.15
89+00.00	2.49	3.41	17.96	6.75	6.53	26.76	3.39	11.48	6.73	6.51	15.63	0.31	1.06	0.62	0.60	1.44	1721.21	1772.10	1994.96	1492.01	-50.89
89+50.00	50.00	2.75	22.02	18.88	16.56	26.70	3.08	19.99	12.82	11.55	26.73	5.70	37.02	23.73	21.38	49.50	1726.91	1809.12	2018.69	1513.39	-82.21
90+00.00	50.00	0.00	33.54	0.00	0.00	78.41	1.38	27.78	9.44	8.28	52.56	2.55	51.44	17.48	15.33	97.32	1729.46	1860.56	2036.17	1528.72	-131.11
90+45.59	45.59	6.44	6.53	8.78	6.59	4.45	3.22	20.04	4.39	3.30	41.43	5.44	33.83	7.41	5.56	69.96	1734.89	1894.39	2043.58	1534.29	-159.50
90+50.00	4.41	3.87	15.03	8.80	6.48	26.59	5.16	10.78	8.79	6.54	15.52	0.84	1.76	1.44	1.07	2.53	1735.73	1896.15	2045.02	1535.35	-160.42
91+00.00	50.00	8.17	17.20	13.71	9.55	26.84	6.02	16.12	11.26	8.02	26.72	11.15	29.84	20.84	14.84	49.47	1746.88	1925.99	2065.86	1550.20	-179.11
91+50.00	50.00	16.53	1.61	6.77	4.85	0.00	12.35	9.41	10.24	7.20	13.42	22.87	17.42	18.96	13.33	24.85	1769.75	1943.41	2084.82	1563.53	-173.66
91+55.67	5.67	6.71	4.87	7.11	5.15	0.00	11.62	3.24	6.94	5.00	0.00	2.44	0.68	1.46	1.05	0.00	1772.19	1944.09	2086.28	1564.58	-171.90
92+00.00	44.33	7.39	4.99	10.66	6.62	0.00	7.05	4.93	8.89	5.89	0.00	11.58	8.09	14.59	9.66	0.00	1783.77	1952.19	2100.87	1574.24	-168.42
92+49.34	49.34	3.29	6.64	4.96	3.11	0.00	5.34	5.82	7.81	4.87	0.00	9.76	10.63	14.27	8.89	0.00	1793.53	1962.81	2115.14	1583.13	-169.29
92+50.00	0.66	9.20	3.42	4.95	3.14	0.00	6.25	5.03	4.96	3.13	0.00	0.15	0.12	0.12	0.08	0.00	1793.68	1962.93	2115.26	1583.21	-169.26
93+00.00	50.00	9.09	4.11	12.07	7.87	0.00	9.15	3.77	8.51	5.51	0.00	16.94	6.97	15.76	10.19	0.00	1810.61	1969.91	2131.02	1593.40	-159.29
93+17.00	17.00	4.80	6.55	6.84	4.51	0.00	6.95	5.33	9.46	6.19	0.00	4.37	3.36	5.95	3.90	0.00	1814.99	1973.26	2136.97	1597.30	-158.28
93+41.95	24.95	1.77	7.27	4.92	3.11	0.00	3.29	6.91	5.88	3.81	0.00	3.04	6.39	5.43	3.52	0.00	1818.02	1979.65	2142.41	1600.82	-161.63
93+50.00	8.05	8.72	4.62	5.39	3.60	0.00	5.25	5.95	5.16	3.36	0.00	1.56	1.77	1.54	1.00	0.00	1819.59	1981.42	2143.94	1601.82	-161.83
94+00.00	50.00	3.32	7.71	12.34	8.15	0.00	6.02	6.17	8.87	5.88	0.00	11.15	11.42	16.42	10.88	0.00	1830.73	1992.84	2160.36	1612.70	-162.10
94+26.04	26.04	1.46	19.78	5.73	3.61	0.00	2.39	13.75	9.04	5.88	0.00	2.31	13.26	8.71	5.67	0.00	1833.04	2006.09	2169.08	1618.37	-173.05
94+36.88	10.84	1.01	16.22	0.00	0.00	0.00	1.24	18.00	2.87	1.81	0.00	0.50	7.23	1.15	0.72	0.00	1833.54	2013.32	2170.23	1619.10	-179.79
94+50.00	13.12	1.90	10.43	10.76	6.60	0.00	1.46	13.33	5.38	3.30	0.00	0.71	6.47	2.61	1.60	0.00	1834.24	2019.80	2172.84	1620.70	-185.55
95+00.00	50.00	2.39	9.46	7.66	5.71	0.00	2.15	9.95	9.21	6.16	0.00	3.97	18.42	17.06	11.40	0.00	1838.21	2038.21	2189		



STATION	DISTANCE	EARTH EXCAVATION END AREAS (SQ FT)		TOPSOIL PLACEMENT (SQ FT)		UNSUITABLE EXCAVATION (SQ FT)	EARTH EXCAVATION AVERAGE END AREA (SQ FT)		TOPSOIL PLACEMENT AVERAGE END AREA (SQ FT)		UNSUITABLE EXCAVATION AVG END AREA (SQ FT)	EARTH EXCAVATION SECTION VOLUMES (CU YD)		TOPSOIL PLACEMENT SECTION VOLUMES (CU YD)		UNSUITABLE EXCAVATION CUMULATIVE VOLUMES (CU YD)	EARTH EXCAVATION CUMULATIVE VOLUMES (CU YD)		TOPSOIL PLACEMENT CUMULATIVE VOLUMES (CU YD)		CUMULATIVE EARTHWORK BALANCE WASTE (+) OR SHORTAGE (-)
		CUT	FILL	CUT	FILL		CUT	FILL	CUT	FILL		CUT	FILL	CUT	FILL		CUT	FILL	CUT	FILL	
98+50.00	50.00	12.23	3.95	16.27	12.14	0.00	10.52	3.74	11.01	7.72	0.00	19.48	6.92	20.39	14.29	0.00	1911.68	2127.18	2306.68	1715.47	-215.50
98+70.23	20.23	4.01	4.13	6.25	3.80	0.00	8.12	4.04	11.26	7.97	0.00	6.08	3.03	8.44	5.97	0.00	1917.77	2130.21	2315.11	1721.44	-212.44
99+00.00	29.77	6.33	8.24	16.97	12.66	0.00	5.17	6.19	11.61	8.23	0.00	5.70	6.82	12.80	9.07	0.00	1923.47	2137.03	2327.91	1730.51	-213.56
99+50.00	50.00	44.50	0.00	3.80	1.31	0.00	25.42	4.12	10.39	6.99	0.00	47.06	7.63	19.23	12.94	0.00	1970.53	2144.66	2347.14	1743.45	-174.13
100+00.00	50.00	11.93	6.39	10.43	9.21	0.00	28.22	3.20	7.12	5.26	0.00	52.25	5.92	13.18	9.74	0.00	2022.78	2150.57	2360.32	1753.19	-127.79
100+50.00	50.00	4.86	0.62	6.39	3.39	0.00	8.40	3.51	8.41	6.30	0.00	15.55	6.49	15.57	11.67	0.00	2038.33	2157.06	2375.89	1764.86	-118.74
101+00.00	50.00	4.02	0.00	5.95	3.95	0.00	4.44	0.31	6.17	3.67	0.00	8.22	0.57	11.43	6.80	0.00	2046.55	2157.64	2387.32	1771.65	-111.09



FILE NAME = 4477-EW\_SCHEDULE.dgn  
 GHA\* 4477.025  
 EW SCH 5

USER NAME = mcolemn  
 PLOT SCALE = 1/20  
 PLOT DATE = 1/25/2016

DESIGNED - MAC  
 DRAWN - ZCW  
 CHECKED - KLB  
 DATE -

REVISED -  
 REVISED -  
 REVISED -  
 REVISED -

STATE OF ILLINOIS  
 DEPARTMENT OF TRANSPORTATION

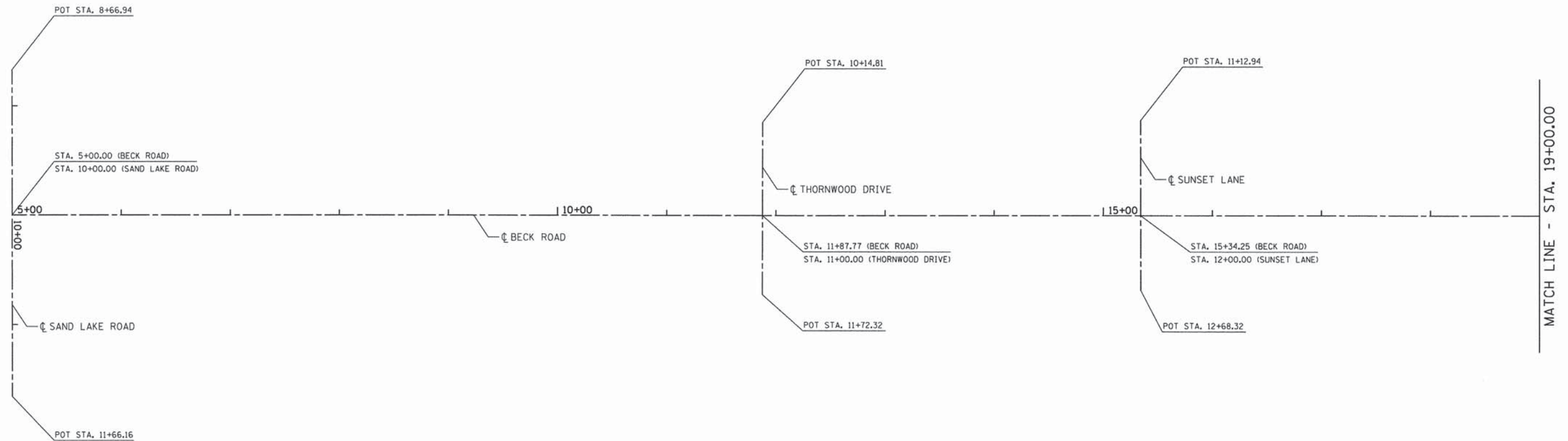
EARTHWORK SCHEDULE  
 BECK ROAD

SCALE: N/A SHEET 5 OF 5 SHEETS STA. TO STA.

F.A.U. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
160	14-00030-00-RS	LAKE	213	25
CONTRACT NO. 61C68				
ILLINOIS FED. AID PROJECT				



ALIGNMENT COORDINATES - BECK ROAD			
BECK RD	STATION	N	E
POB	5+00.00	2,091,378.268	1,067,889.379



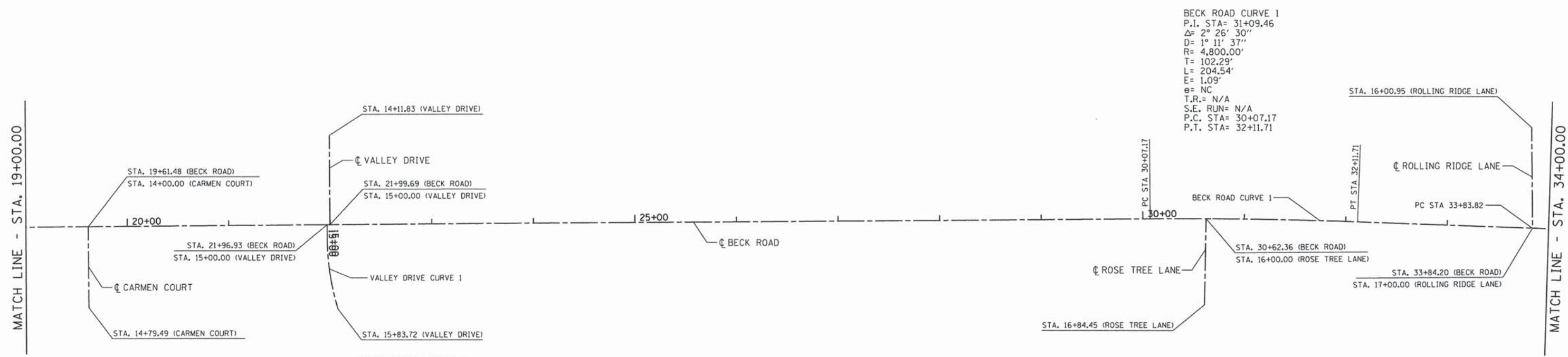
ALIGNMENT COORDINATES - SAND LAKE ROAD			
SAND LAKE ROAD	STATION	N	E
POB	8+66.94	2,091,378.658	1,067,756.314
POT	11+66.16	2,091,377.781	1,068,055.536

ALIGNMENT COORDINATES - THORNWOOD DRIVE			
THORNWOOD DRIVE	STATION	N	E
POB	10+14.81	2,092,066.539	1,067,807.985
POT	11+72.32	2,092,065.592	1,067,965.493

ALIGNMENT COORDINATES - SUNSET LANE			
SUNSET LANE	STATION	N	E
POB	11+12.94	2,092,412.830	1,067,808.025
POT	12+68.32	2,092,412.253	1,067,963.408

**GH** GEWALT HAMILTON  
 ASSOCIATES, INC.

FILE NAME = 4477-ATB01.dgn	USER NAME = mcoleman	DESIGNED - MAC	REVISED -	<b>STATE OF ILLINOIS          DEPARTMENT OF TRANSPORTATION</b>	<b>ALIGNMENT, TIES, &amp; BENCHMARKS          BECK ROAD</b>			F.A.U. RTE. 160	SECTION 14-00030-00-RS	COUNTY LAKE	TOTAL SHEETS 213	SHEET NO. 26
DRAWN - ZCW	CHECKED - KLB	DATE -	REVISED -		SCALE: 1"=50'	SHEET 1 OF 7 SHEETS	STA. B.O.P.	TO STA. 19+00.00	CONTRACT NO. 61C68			
PLOT SCALE = 1:50	DATE -	REVISED -	REVISED -		ILLINOIS FED. AID PROJECT							
PLOT DATE = 1/25/2016	DATE -	REVISED -	REVISED -									



BECK ROAD CURVE 1  
 P.I. STA= 31+09.46  
 Δ= 2° 26' 30"  
 D= 1° 11' 37"  
 R= 4,800.00'  
 T= 102.29'  
 L= 204.54'  
 E= 1.09'  
 e= NC  
 T.R.= N/A  
 S.E. RUN= N/A  
 P.C. STA= 30+07.17  
 P.T. STA= 32+11.71

ALIGNMENT COORDINATES - CARMEN COURT			
CARMEN COURT	STATION	N	E
POB	14+00.00	2,092,839.728	1,067,897.445
POT	14+79.49	2,092,839.569	1,067,976.936

ALIGNMENT COORDINATES - BECK ROAD			
BECK RD	STATION	N	E
PC	30+07.17	2,093,885.401	1,067,903.217
PI	31+09.46	2,093,987.686	1,067,903.782
PT	32+11.71	2,094,089.854	1,067,908.703
PC	33+83.82	2,094,261.765	1,067,916.984

ALIGNMENT COORDINATES - ROSE TREE LANE			
ROSE TREE LANE	STATION	N	E
POB	16+00.00	2,093,940.586	1,067,903.839
POT	16+84.45	2,093,837.837	1,067,988.249

ALIGNMENT COORDINATES - VALLEY DRIVE			
VALLEY DRIVE	STATION	N	E
POB	14+11.83	2,093,078.337	1,067,810.587
PI	15+00.00	2,093,077.936	1,067,898.760
PI	15+00.00	2,093,075.172	1,067,898.745
POT	15+83.72	2,093,084.858	1,067,981.543

**GEWALT HAMILTON ASSOCIATES, INC.**

FILE NAME = 4477-ATB02.dgn  
 GHA\* 4477.025  
 4477-Align15

USER NAME = mcoleman  
 PLOT SCALE = 1:50  
 PLOT DATE = 1/25/2016

DESIGNED - MAC  
 DRAWN - ZCW  
 CHECKED - KLB  
 DATE -

REVISED -  
 REVISED -  
 REVISED -  
 REVISED -

**STATE OF ILLINOIS  
 DEPARTMENT OF TRANSPORTATION**

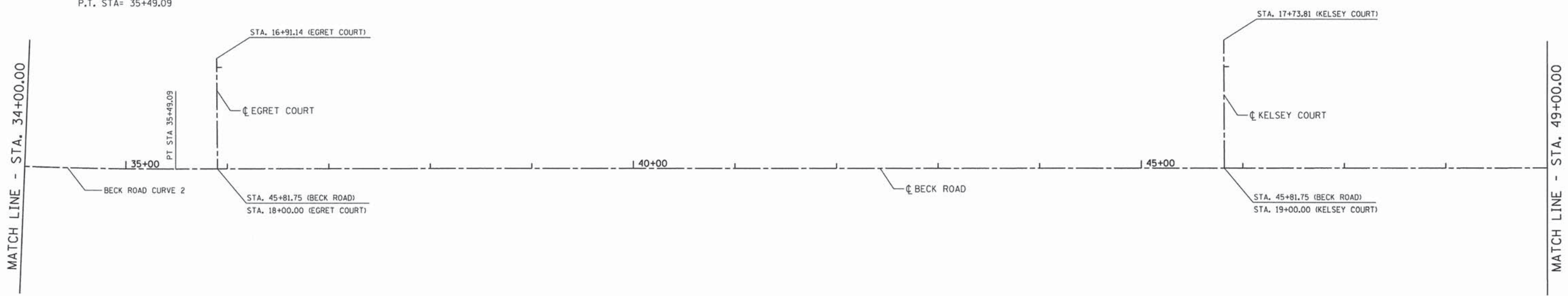
**ALIGNMENT, TIES, & BENCHMARKS  
 BECK ROAD**

SCALE: 1"=50'    SHEET 2 OF 7 SHEETS    STA. 19+00.00 TO STA. 34+00.00

F.A.U. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
160	14-00030-00-RS	LAKE	213	27
CONTRACT NO. 61C68				
ILLINOIS FED. AID PROJECT				



BECK ROAD CURVE 2  
 P.I. STA= 34+66.47  
 $\Delta = 2^{\circ} 29' 31''$   
 $D = 1^{\circ} 30' 28''$   
 $R = 3,800.00'$   
 $T = 82.65'$   
 $L = 165.25'$   
 $E = 0.90'$   
 $e = NC$   
 $T.R. = N/A$   
 $S.E. RUN = N/A$   
 $P.C. STA = 33+83.82$   
 $P.T. STA = 35+49.09$



ALIGNMENT COORDINATES - BECK ROAD			
BECK RD	STATION	N	E
PI	34+66.47	2,094,344.316	1,067,920.961
PT	35+49.09	2,094,426.962	1,067,921.344

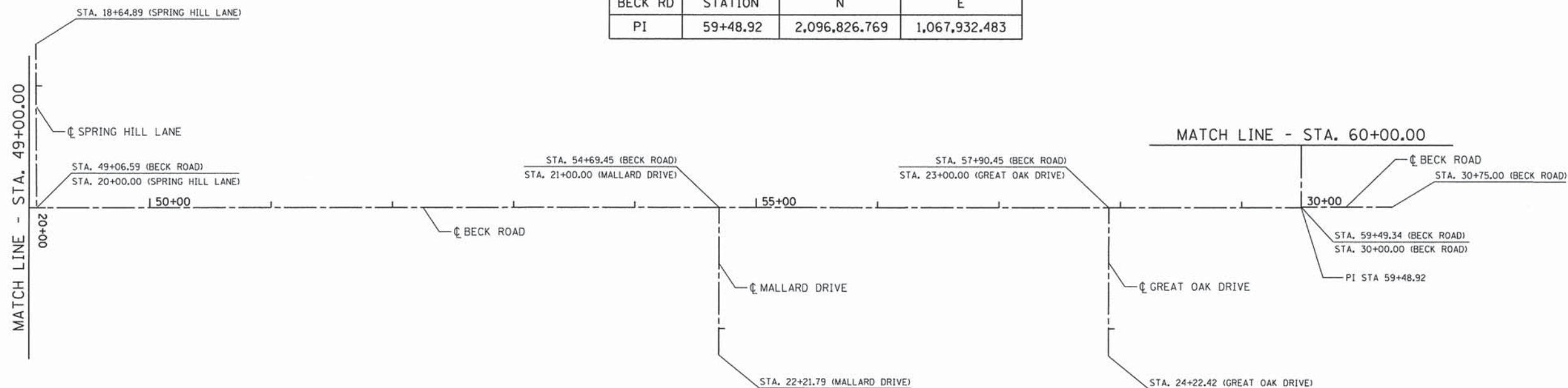
ALIGNMENT COORDINATES - EGRET COURT			
EGRET COURT	STATION	N	E
POB	16+91.14	2,094,467.790	1,067,812.673
POT	18+00.00	2,094,468.167	1,067,921.536

ALIGNMENT COORDINATES - KELSEY COURT			
KELSEY COURT	STATION	N	E
POB	17+73.81	2,095,459.580	1,067,799.946
POT	19+00.00	2,095,459.610	1,067,926.137

**CHA** GEWALT HAMILTON  
 ASSOCIATES, INC.



ALIGNMENT COORDINATES - BECK ROAD			
BECK RD	STATION	N	E
PI	59+48.92	2,096,826.769	1,067,932.483



ALIGNMENT COORDINATES - BECK ROAD			
BECK ROAD	STATION	N	E
POB	30+00.00	2,096,826.771	1,067,932.062
POT	30+75.00	2,096,901.770	1,067,932.409

ALIGNMENT COORDINATES - GREAT OAK DRIVE			
GREAT OAK DRIVE	STATION	N	E
POB	23+00.00	2,096,668.301	1,067,931.747
POT	24+22.42	2,096,667.491	1,068,054.169

ALIGNMENT COORDINATES - SPRING HILL LANE			
SPRING HILL LANE	STATION	N	E
POB	18+64.89	2,095,785.076	1,067,792.534
POT	20+00.00	2,095,784.450	1,067,927.645

ALIGNMENT COORDINATES - MALLARD DRIVE			
MALLARD DRIVE	STATION	N	E
POB	21+00.00	2,096,347.304	1,067,930.257
POT	22+21.79	2,096,346.498	1,068,052.044

**CH2M HILL**  
 GEWALT HAMILTON  
 ASSOCIATES, INC.



ALIGNMENT COORDINATES - LAKESHORE DRIVE			
LAKESHORE DR	STATION	N	E
POB	31+00.00	2,096,793.680	1,067,052.601
POT	31+78.29	2,096,871.146	1,067,063.902

BECK ROAD CURVE 3  
 P.I. STA= 65+52.76  
 $\Delta$ = 8° 33' 28"  
 D= 2° 54' 57"  
 R= 1,965.00'  
 T= 147.02'  
 L= 293.50'  
 E= 5.49'  
 e= NC  
 T.R.= N/A  
 S.E. RUN= N/A  
 P.C. STA= 65+05.74  
 P.T. STA= 66+99.23

BECK ROAD CURVE 4  
 P.I. STA= 69+91.79  
 $\Delta$ = 39° 30' 56"  
 D= 20° 06' 14"  
 R= 285.00'  
 T= 102.37'  
 L= 196.56'  
 E= 17.83'  
 e= NC  
 T.R.= N/A  
 S.E. RUN= N/A  
 P.C. STA= 68+89.42  
 P.T. STA= 70+85.98

BECK ROAD CURVE 5  
 P.I. STA= 73+52.58  
 $\Delta$ = 35° 03' 06"  
 D= 15° 14' 18"  
 R= 376.00'  
 T= 118.74'  
 L= 230.02'  
 E= 18.30'  
 e= NC  
 T.R.= N/A  
 S.E. RUN= N/A  
 P.C. STA= 72+33.85  
 P.T. STA= 74+63.87

BECK ROAD CURVE 6  
 P.I. STA= 75+94.33  
 $\Delta$ = 26° 02' 52"  
 D= 10° 09' 32"  
 R= 564.00'  
 T= 130.46'  
 L= 256.41'  
 E= 14.89'  
 e= NC  
 T.R.= N/A  
 S.E. RUN= N/A  
 P.C. STA= 74+63.87  
 P.T. STA= 77+20.28

ALIGNMENT COORDINATES - BECK ROAD			
BECK RD	STATION	N	E
PC	64+05.74	2,096,829.137	1,067,475.677
PI	65+52.76	2,096,829.900	1,067,328.658
PT	66+99.23	2,096,852.531	1,067,485.866
PI	68+20.16	2,096,871.146	1,067,063.902
PC	68+89.42	2,096,939.933	1,067,072.000
PI	69+91.79	2,097,041.601	1,067,083.968
PT	70+85.98	2,097,127.647	1,067,028.511
PC	72+33.85	2,097,251.937	1,066,948.407
PI	73+52.58	2,097,351.743	1,066,884.083
PCC	74+63.87	2,097,251.937	1,066,948.407
PI	75+94.33	2,097,445.685	1,066,653.272

MATCH LINE - STA. 60+00.00

MATCH LINE - STA. 77+00.00



FILE NAME = 4477-ATB05.dgn  
 GHA\* 4477.025  
 4477-Align18

USER NAME = mcolemo  
 PLOT SCALE = 1:50  
 PLOT DATE = 1/25/2016

DESIGNED - MAC  
 DRAWN - ZCW  
 CHECKED - KLB  
 DATE -

REVISED -  
 REVISED -  
 REVISED -  
 REVISED -

**STATE OF ILLINOIS  
 DEPARTMENT OF TRANSPORTATION**

**ALIGNMENT, TIES, & BENCHMARKS  
 BECK ROAD**

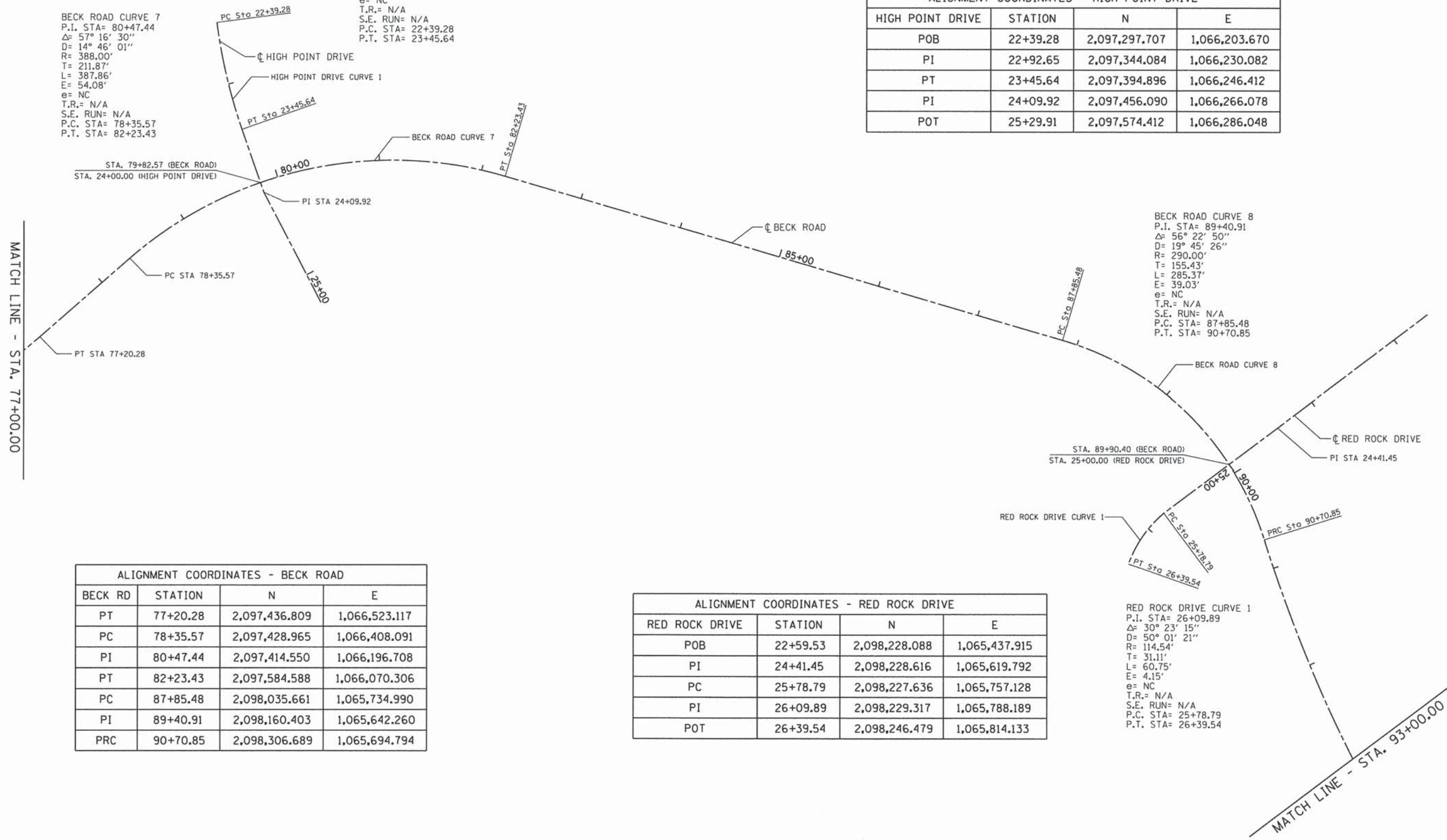
SCALE: 1"=50' SHEET 5 OF 7 SHEETS STA. 60+00.00 TO STA. 77+00.00

F.A.U. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
160	14-00030-00-RS	LAKE	213	30
CONTRACT NO. 61C68				
[ILLINOIS] FED. AID PROJECT				



BECK ROAD CURVE 7  
 P.I. STA= 80+47.44  
 $\Delta = 57^\circ 16' 30''$   
 $D = 14^\circ 46' 01''$   
 $R = 388.00'$   
 $T = 211.87'$   
 $L = 387.86'$   
 $E = 54.08'$   
 $e = NC$   
 $T.R. = N/A$   
 $S.E. RUN = N/A$   
 $P.C. STA = 78+35.57$   
 $P.T. STA = 82+23.43$

HIGH POINT DRIVE CURVE 1  
 P.I. STA= 22+92.65  
 $\Delta = 11^\circ 50' 44''$   
 $D = 11^\circ 08' 13''$   
 $R = 514.46'$   
 $T = 53.37'$   
 $L = 106.36'$   
 $E = 2.76'$   
 $e = NC$   
 $T.R. = N/A$   
 $S.E. RUN = N/A$   
 $P.C. STA = 22+39.28$   
 $P.T. STA = 23+45.64$



ALIGNMENT COORDINATES - HIGH POINT DRIVE			
HIGH POINT DRIVE	STATION	N	E
POB	22+39.28	2,097,297.707	1,066,203.670
PI	22+92.65	2,097,344.084	1,066,230.082
PT	23+45.64	2,097,394.896	1,066,246.412
PI	24+09.92	2,097,456.090	1,066,266.078
POT	25+29.91	2,097,574.412	1,066,286.048

ALIGNMENT COORDINATES - BECK ROAD			
BECK RD	STATION	N	E
PT	77+20.28	2,097,436.809	1,066,523.117
PC	78+35.57	2,097,428.965	1,066,408.091
PI	80+47.44	2,097,414.550	1,066,196.708
PT	82+23.43	2,097,584.588	1,066,070.306
PC	87+85.48	2,098,035.661	1,065,734.990
PI	89+40.91	2,098,160.403	1,065,642.260
PRC	90+70.85	2,098,306.689	1,065,694.794

ALIGNMENT COORDINATES - RED ROCK DRIVE			
RED ROCK DRIVE	STATION	N	E
POB	22+59.53	2,098,228.088	1,065,437.915
PI	24+41.45	2,098,228.616	1,065,619.792
PC	25+78.79	2,098,227.636	1,065,757.128
PI	26+09.89	2,098,229.317	1,065,788.189
POT	26+39.54	2,098,246.479	1,065,814.133

BECK ROAD CURVE 8  
 P.I. STA= 89+40.91  
 $\Delta = 56^\circ 22' 50''$   
 $D = 19^\circ 45' 26''$   
 $R = 290.00'$   
 $T = 155.43'$   
 $L = 285.37'$   
 $E = 39.03'$   
 $e = NC$   
 $T.R. = N/A$   
 $S.E. RUN = N/A$   
 $P.C. STA = 87+85.48$   
 $P.T. STA = 90+70.85$

RED ROCK DRIVE CURVE 1  
 P.I. STA= 26+09.89  
 $\Delta = 30^\circ 23' 15''$   
 $D = 50^\circ 01' 21''$   
 $R = 114.54'$   
 $T = 31.11'$   
 $L = 60.75'$   
 $E = 4.15'$   
 $e = NC$   
 $T.R. = N/A$   
 $S.E. RUN = N/A$   
 $P.C. STA = 25+78.79$   
 $P.T. STA = 26+39.54$

**GEWALT HAMILTON ASSOCIATES, INC.**

FILE NAME = 4477-ATB86.dgn  
 USER NAME = mcolem  
 PLOT SCALE = 1:50  
 PLOT DATE = 1/25/2016

DESIGNED - MAC  
 DRAWN - ZCW  
 CHECKED - KLB  
 DATE -

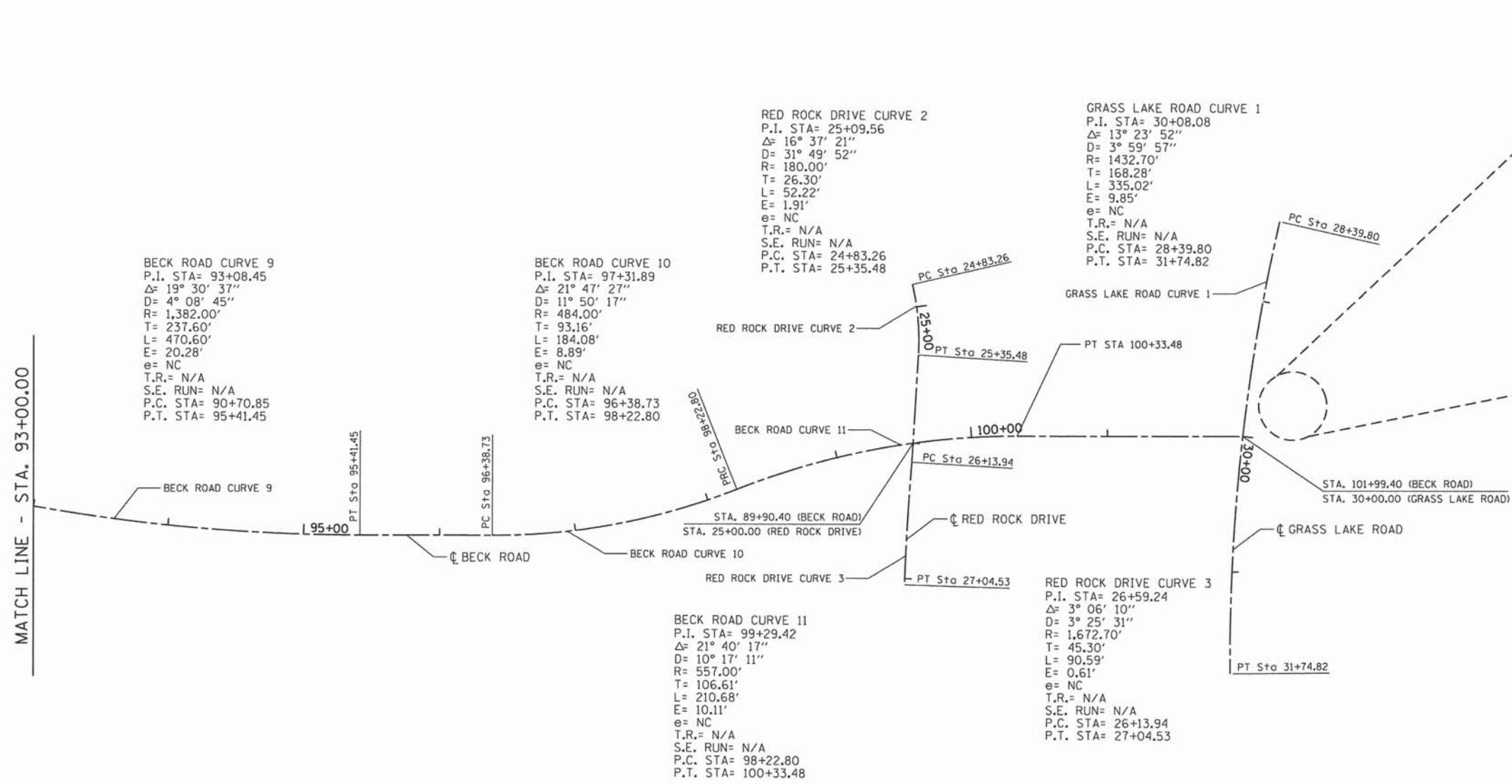
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 REVISED -

STATE OF ILLINOIS  
 DEPARTMENT OF TRANSPORTATION

ALIGNMENT, TIES, & BENCHMARKS  
 BECK ROAD

SCALE: 1"=50' SHEET 6 OF 7 SHEETS STA. 77+00.00 TO STA. 93+00.00

F.A.U. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
160	14-00030-00-RS	LAKE	213	31
CONTRACT NO. 61C68				
ILLINOIS FED. AID PROJECT				



BENCHMARK 1-15AR DESCRIPTION	
LOCATION	FROM THE INTERSECTION OF HIGHWAY 45 AND GRASS LAKE RD. IN MILLBURN GO WESTERLY 1.2 MILES TO MARK.
TYPE OF MARKER	CUT SQUARE ON SE COR. OF HANDHOLE @ NWCOR
N LATITUDE	42.43003
W LONGITUDE	-88.0317
NGVD29 ELEVATION	772.82

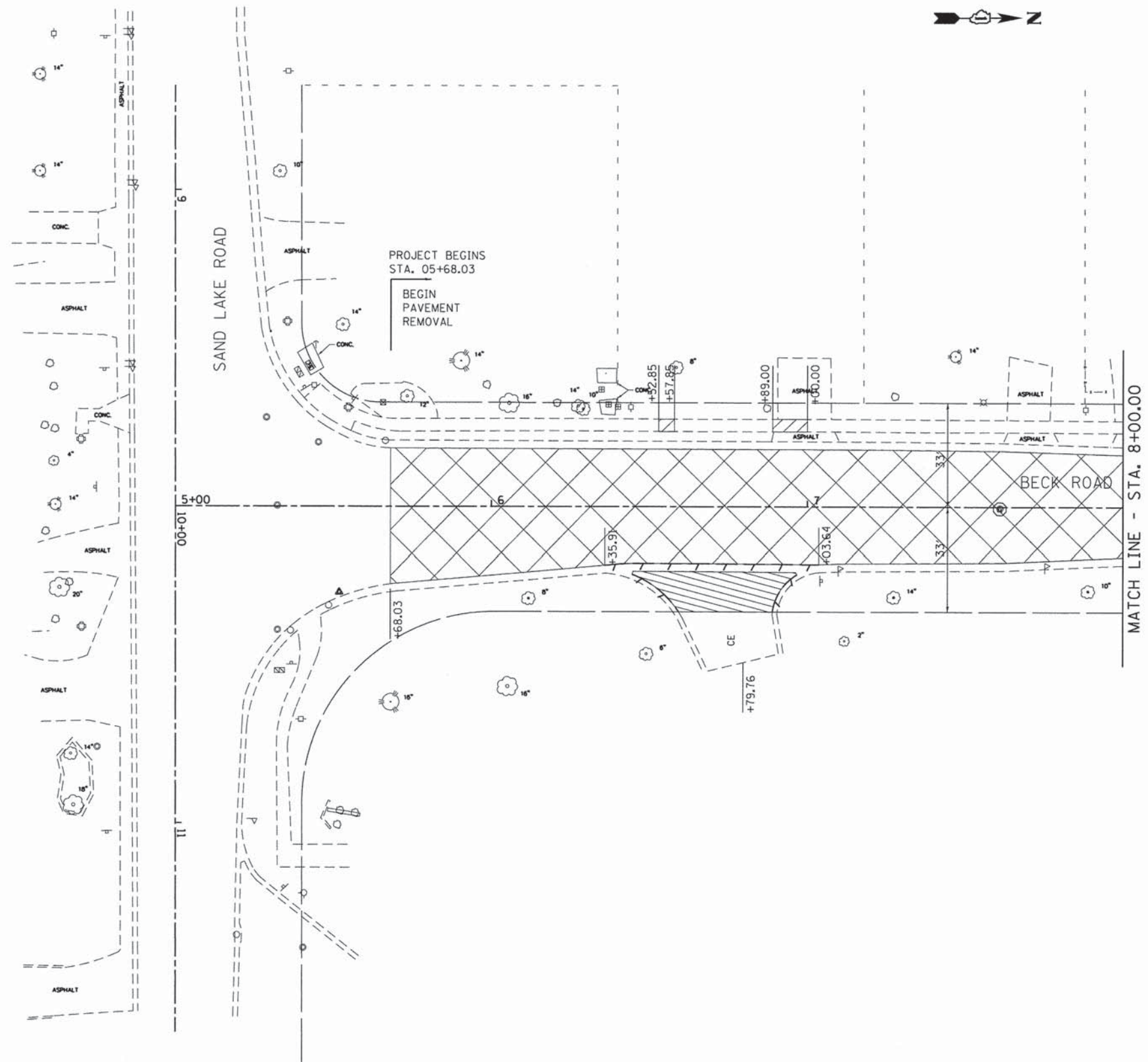
ALIGNMENT COORDINATES - BECK ROAD			
BECK RD	STATION	N	E
PI	93+08.45	2,098,530.306	1,065,775.099
PT	95+41.45	2,098,767.903	1,065,776.111
PC	96+38.73	2,098,865.185	1,065,776.525
PI	97+31.89	2,098,958.348	1,065,776.922
PRC	98+22.80	2,099,045.001	1,065,742.706
PI	99+29.42	2,099,144.163	1,065,703.552
PT	100+33.48	2,099,250.775	1,065,703.783
POT	101+99.40	2,099,416.696	1,065,704.143

ALIGNMENT COORDINATES - RED ROCK DRIVE			
RED ROCK DRIVE	STATION	N	E
POB	24+83.26	2,099,174.110	1,065,592.613
PI	25+09.56	2,099,180.063	1,065,618.225
PT	25+35.48	2,099,178.441	1,065,644.471
PC	26+13.94	2,099,173.599	1,065,722.778
PI	26+59.24	2,099,169.654	1,065,767.910
POT	27+04.53	2,099,168.157	1,065,813.190

ALIGNMENT COORDINATES - GRASS LAKE ROAD			
GRASS LAKE ROAD	STATION	N	E
POB	28+39.80	2,099,443.918	1,065,546.357
PI	30+08.08	2,099,406.088	1,065,710.325
POT	31+74.82	2,099,407.280	1,065,878.596

**CH2M HILL**  
 GEWALT HAMILTON  
 ASSOCIATES, INC.





**LEGEND**

- HOT-MIX ASPHALT SURFACE REMOVAL, 5"
- DRIVEWAY PAVEMENT REMOVAL
- SIDEWALK REMOVAL
- PAVEMENT REMOVAL
- COMBINATION CURB AND GUTTER REMOVAL
- TREE REMOVAL
- ADJUST FRAME AND GRATE
- ADJUST FRAME LID

**GHA** GEWALT HAMILTON ASSOCIATES, INC.

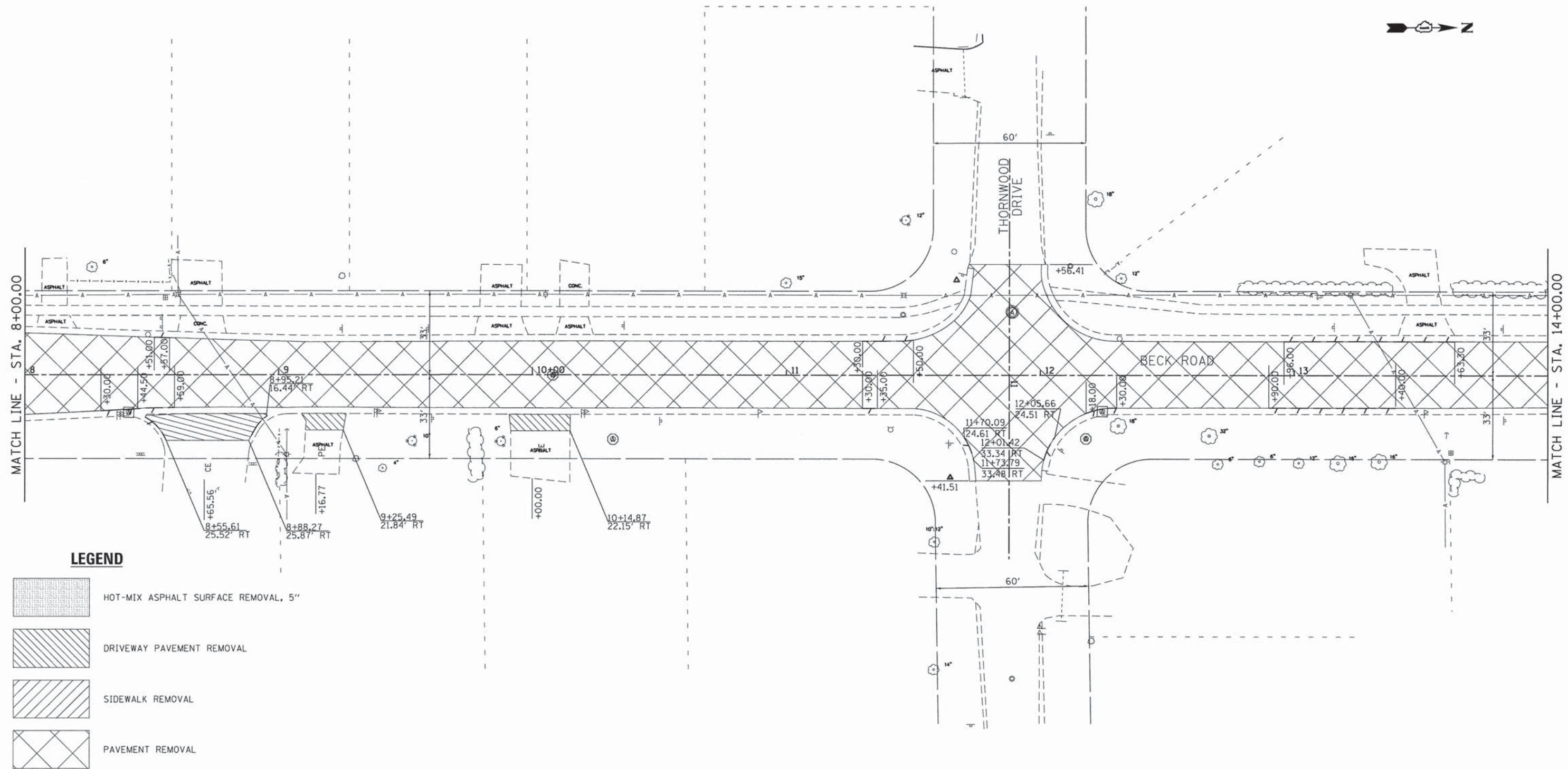
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GHAN 4477.025		DRAWN - ZCW	REVISED -
4477-Rem20		CHECKED - KLB	REVISED -
		DATE -	REVISED -

**STATE OF ILLINOIS  
DEPARTMENT OF TRANSPORTATION**

**REMOVAL PLAN  
BECK ROAD**

SCALE: 1"=20'    SHEET 1 OF 18 SHEETS    STA. B.O.P. TO STA. 8+00.00

F.A.U. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
160	14-00030-00-RS	LAKE	213	33
CONTRACT NO. 61C68				
ILLINOIS FED. AID PROJECT				



**LEGEND**

- HOT-MIX ASPHALT SURFACE REMOVAL, 5"
- DRIVEWAY PAVEMENT REMOVAL
- SIDEWALK REMOVAL
- PAVEMENT REMOVAL
- COMBINATION CURB AND GUTTER REMOVAL
- TREE REMOVAL
- ADJUST FRAME AND GRATE
- ADJUST FRAME LID

**GEWALT HAMILTON ASSOCIATES, INC.**

FILE NAME = 4477-Rem2.dgn  
GHA\* 4477.025  
4477-Rem21

USER NAME = mcolemn  
PLOT SCALE = 1:20  
PLOT DATE = 1/25/2016

DESIGNED - MAC  
DRAWN - ZCW  
CHECKED - KLB  
DATE -

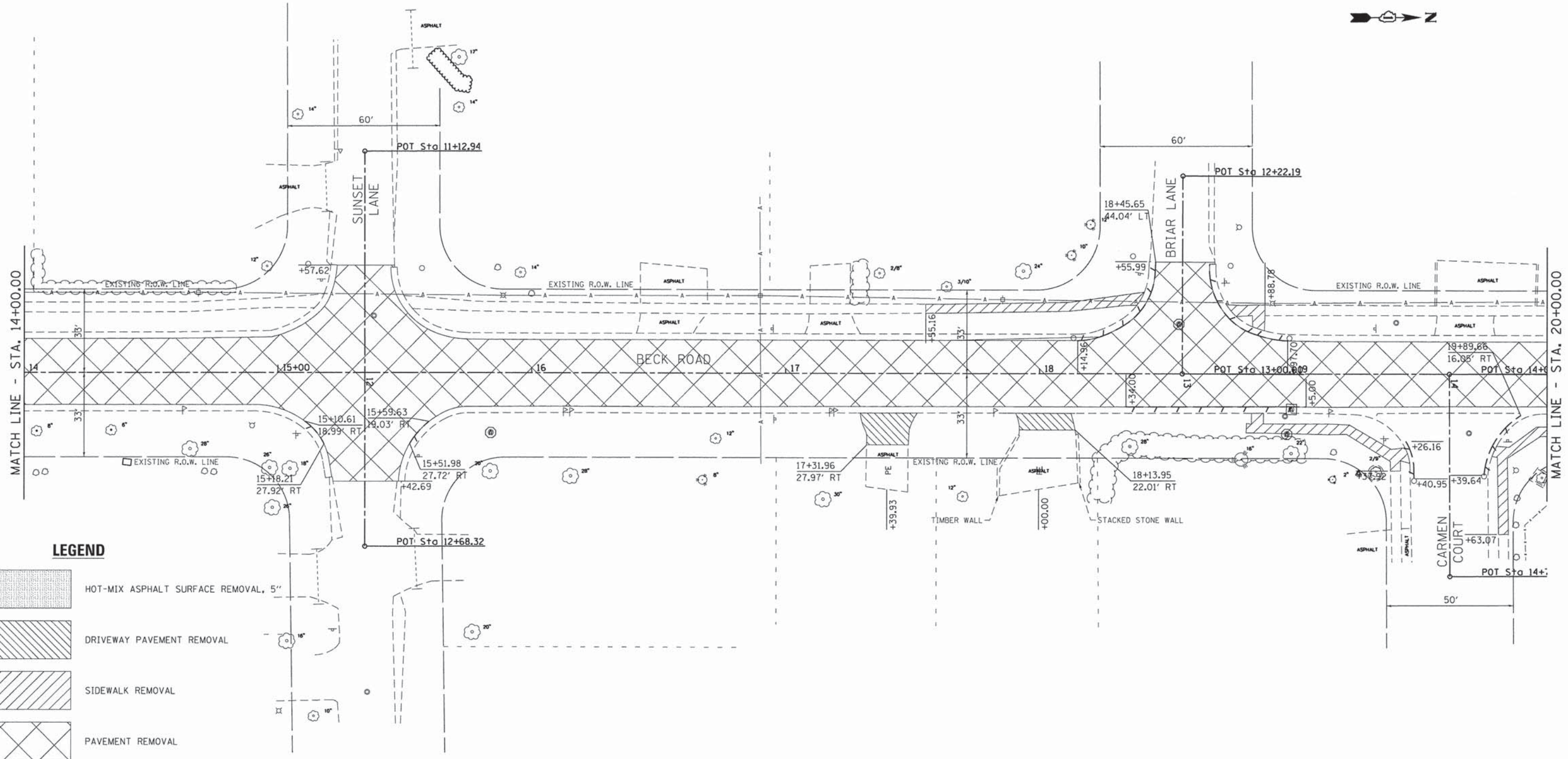
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REVISED -  
REVISED -  
REVISED -

**STATE OF ILLINOIS  
DEPARTMENT OF TRANSPORTATION**









**REMOVAL PLAN  
BECK ROAD**

SCALE: 1"=20'    SHEET 2 OF 18 SHEETS    STA. 8+00.00 TO STA. 14+00.00

F.A.U. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
160	14-00030-00-RS	LAKE	213	34
<b>CONTRACT NO. 61C68</b>				
ILLINOIS FED. AID PROJECT				



**LEGEND**

-  HOT-MIX ASPHALT SURFACE REMOVAL, 5"
-  DRIVEWAY PAVEMENT REMOVAL
-  SIDEWALK REMOVAL
-  PAVEMENT REMOVAL
-  COMBINATION CURB AND GUTTER REMOVAL
-  TREE REMOVAL
-  ADJUST FRAME AND GRATE
-  ADJUST FRAME LID

**CH2M HILL**  
GEWALT HAMILTON  
ASSOCIATES, INC.

FILE NAME = 4477-Rem03.dgn  
GHA# 4477.025  
4477-Rem22

USER NAME = mcolemar  
DESIGNED - MAC  
DRAWN - ZCW  
CHECKED - KLB  
DATE -  
PLOT SCALE = 1/2"=20'  
PLOT DATE = 1/25/2016

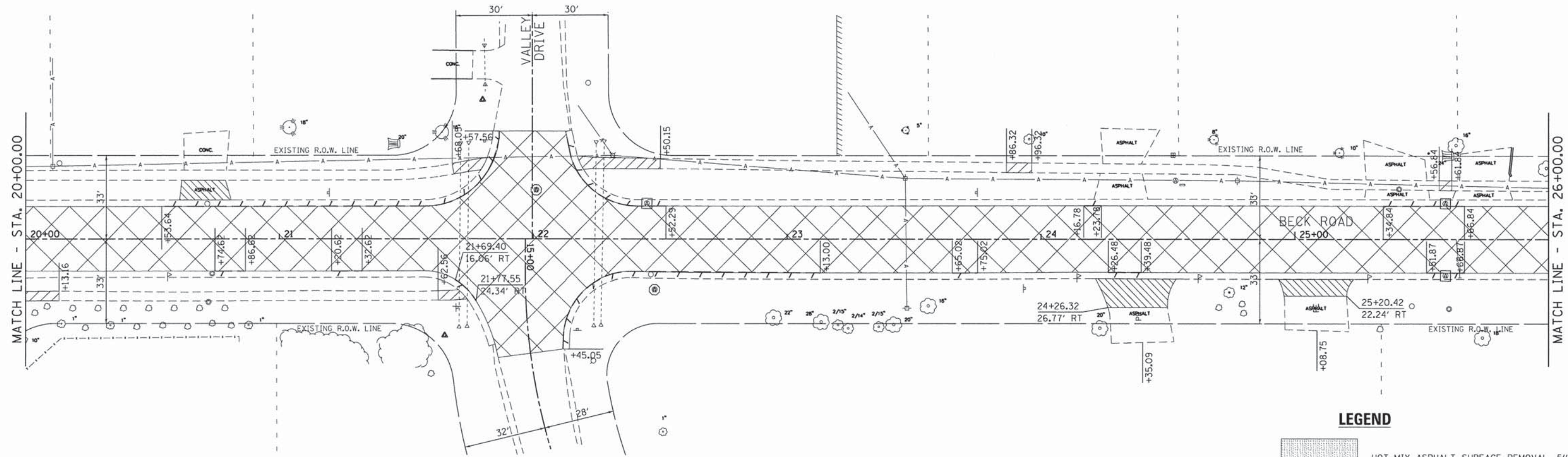
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REVISED -  
REVISED -  
REVISED -

**STATE OF ILLINOIS  
DEPARTMENT OF TRANSPORTATION**









**REMOVAL PLAN  
BECK ROAD**

SCALE: 1"=20'    SHEET 3 OF 18 SHEETS    STA. 14+00.00 TO STA. 20+00.00

F.A.U. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
160	14-00030-00-RS	LAKE	213	35
CONTRACT NO. 61C68				
ILLINOIS FED. AID PROJECT				



**LEGEND**

-  HOT-MIX ASPHALT SURFACE REMOVAL, 5"
-  DRIVEWAY PAVEMENT REMOVAL
-  SIDEWALK REMOVAL
-  PAVEMENT REMOVAL
-  COMBINATION CURB AND GUTTER REMOVAL
-  TREE REMOVAL
-  ADJUST FRAME AND GRATE
-  ADJUST FRAME LID

**GHA** GEWALT HAMILTON ASSOCIATES, INC.

FILE NAME = 4477-Rem04.dgn  
GHA# 4477.025  
4477-Rem23

USER NAME = mcolemen  
PLOT SCALE = 1:20  
PLOT DATE = 1/25/2016

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DRAWN - ZCW  
CHECKED - KLB  
DATE -

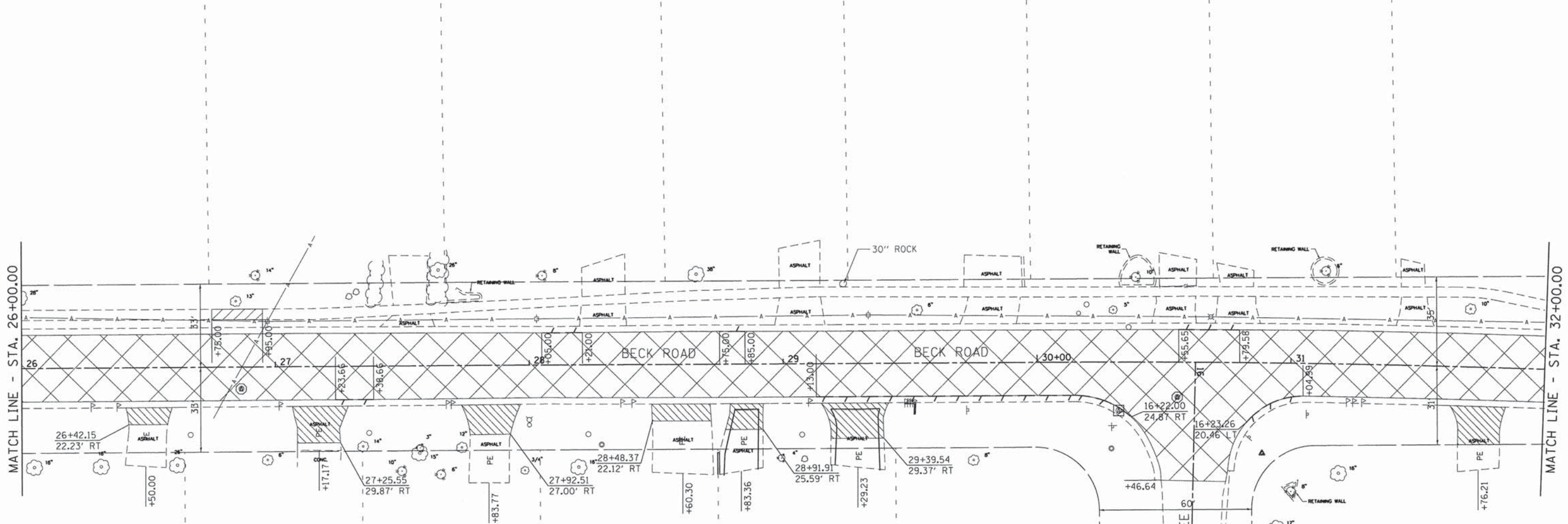
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REVISED -  
REVISED -

**STATE OF ILLINOIS  
DEPARTMENT OF TRANSPORTATION**

**REMOVAL PLAN  
BECK ROAD**

SCALE: 1"=20' SHEET 4 OF 18 SHEETS STA. 20+00.00 TO STA. 26+00.00

F.A.U. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
160	14-00030-00-RS	LAKE	213	36
				CONTRACT NO. 61C68
ILLINOIS FED. AID PROJECT				



**LEGEND**

- HOT-MIX ASPHALT SURFACE REMOVAL, 5"
- DRIVEWAY PAVEMENT REMOVAL
- SIDEWALK REMOVAL
- PAVEMENT REMOVAL
- COMBINATION CURB AND GUTTER REMOVAL
- TREE REMOVAL
- ADJUST FRAME AND GRATE
- ADJUST FRAME LID

**GHA** GEWALT HAMILTON ASSOCIATES, INC.

FILE NAME = 4477-Rem05.dgn  
GHA# 4477.025  
4477-Rem24

USER NAME = mcoleman  
PLOT SCALE = 1:20  
PLOT DATE = 1/25/2016

DESIGNED - MAC  
DRAWN - ZCW  
CHECKED - KLB  
DATE -

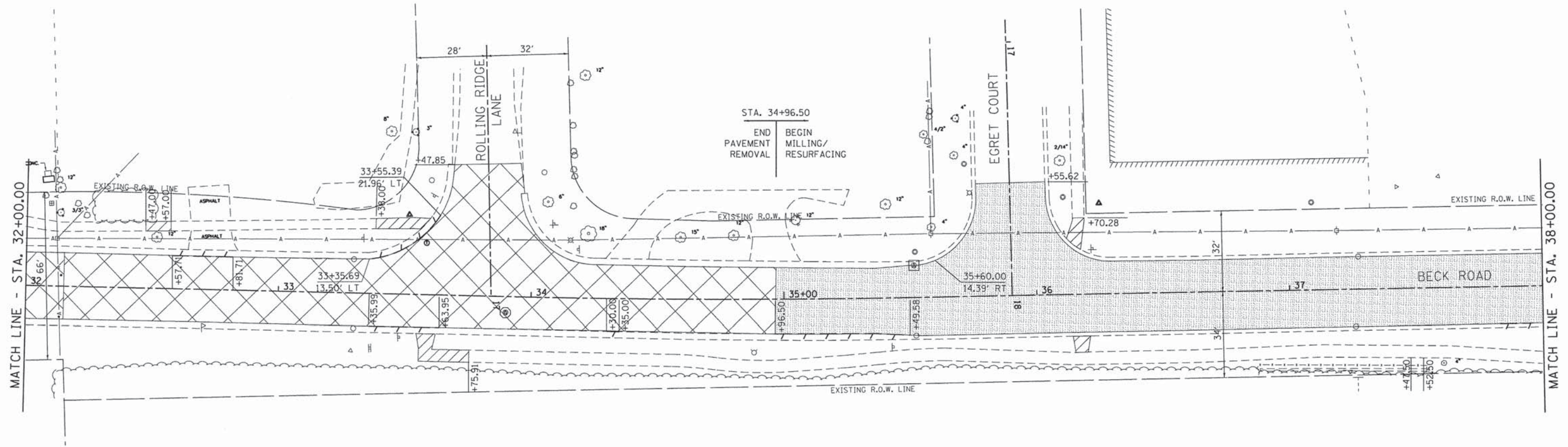
REVISED -  
REVISED -  
REVISED -  
REVISED -

**STATE OF ILLINOIS  
DEPARTMENT OF TRANSPORTATION**

**REMOVAL PLAN  
BECK ROAD**

SCALE: 1"=20'    SHEET 5 OF 18 SHEETS    STA. 26+00.00 TO STA. 32+00.00

F.A.U. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
160	14-00030-00-RS	LAKE	213	37
CONTRACT NO. 61C68				
ILLINOIS FED. AID PROJECT				



**LEGEND**

- HOT-MIX ASPHALT SURFACE REMOVAL, 5"
- DRIVEWAY PAVEMENT REMOVAL
- SIDEWALK REMOVAL
- PAVEMENT REMOVAL
- COMBINATION CURB AND GUTTER REMOVAL
- TREE REMOVAL
- ADJUST FRAME AND GRATE
- ADJUST FRAME LID

**GHA** GEWALT HAMILTON ASSOCIATES, INC.

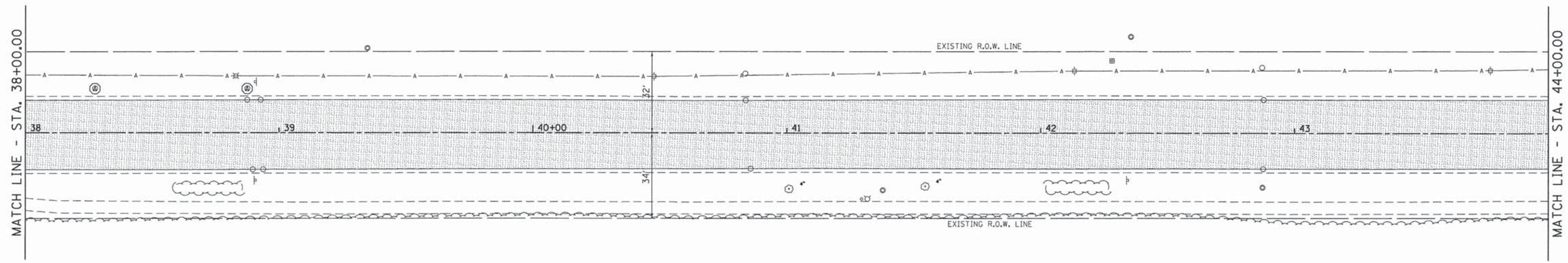
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**STATE OF ILLINOIS  
DEPARTMENT OF TRANSPORTATION**









**REMOVAL PLAN  
BECK ROAD**

SCALE: 1"=20'    SHEET 6 OF 18 SHEETS    STA. 32+00.00 TO STA. 38+00.00

F.A.U. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
160	14-00030-00-RS	LAKE	213	38
CONTRACT NO. 61C68				
[ILLINOIS] FED. AID PROJECT				



**LEGEND**

-  HOT-MIX ASPHALT SURFACE REMOVAL, 5"
-  DRIVEWAY PAVEMENT REMOVAL
-  SIDEWALK REMOVAL
-  PAVEMENT REMOVAL
-  COMBINATION CURB AND GUTTER REMOVAL
-  TREE REMOVAL
-  ADJUST FRAME AND GRATE
-  ADJUST FRAME LID

**GHA** GEWALT HAMILTON ASSOCIATES, INC.

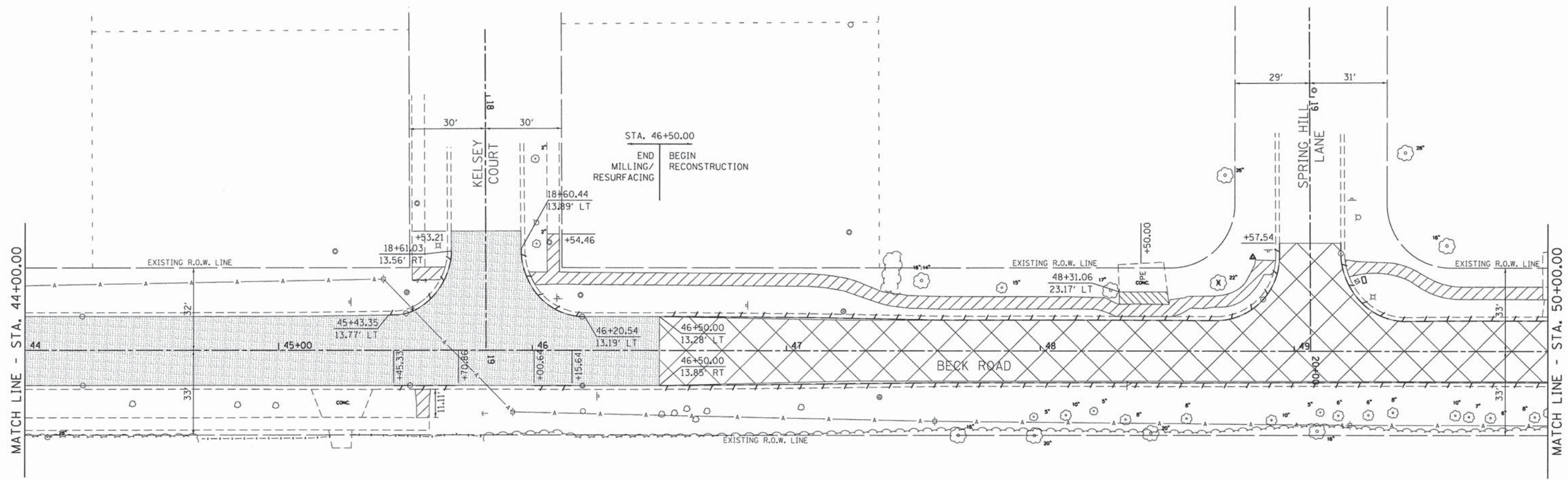
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4477-Rem26	PLOT DATE = 1/25/2016	CHECKED - KLB	REVISED -
		DATE -	REVISED -

**STATE OF ILLINOIS  
DEPARTMENT OF TRANSPORTATION**

**REMOVAL PLAN  
BECK ROAD**

SCALE: 1"=20'    SHEET 7 OF 18 SHEETS    STA. 38+00.00 TO STA. 44+00.00

F.A.U. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
160	14-00030-00-RS	LAKE	213	39
CONTRACT NO. 61C68				
ILLINOIS FED. AID PROJECT				



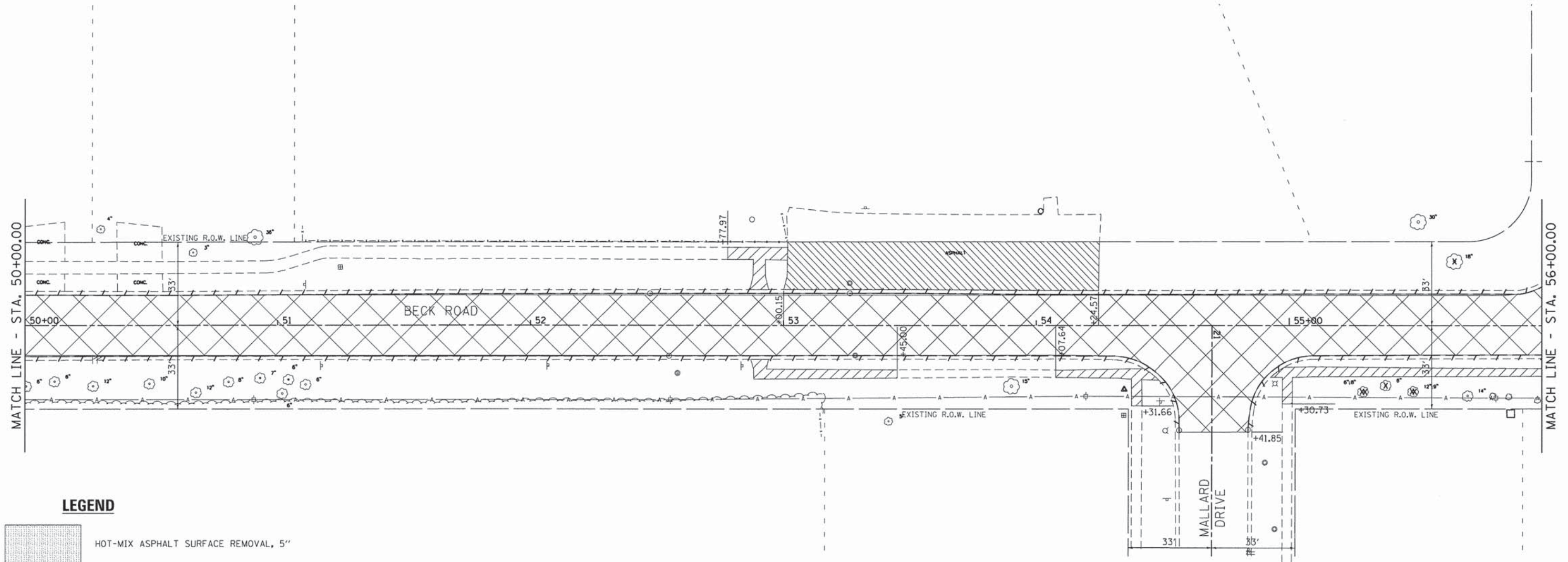
**LEGEND**

- HOT-MIX ASPHALT SURFACE REMOVAL, 5"
- DRIVEWAY PAVEMENT REMOVAL
- SIDEWALK REMOVAL
- PAVEMENT REMOVAL
- COMBINATION CURB AND GUTTER REMOVAL
- TREE REMOVAL
- ADJUST FRAME AND GRATE
- ADJUST FRAME LID





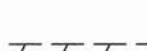



**GHA GEWALT HAMILTON ASSOCIATES, INC.**

FILE NAME = 4477-Rem98.dgn	USER NAME = mcoleman	DESIGNED - MAC	REVISED -	<b>STATE OF ILLINOIS DEPARTMENT OF TRANSPORTATION</b>	<b>REMOVAL PLAN BECK ROAD</b>	F.A.U. RTE. 160	SECTION 14-00030-00-RS	COUNTY LAKE	TOTAL SHEETS 213	SHEET NO. 40	
GHAN 4477.025	PLOT SCALE = 1s20	DRAWN - ZCW	REVISED -			SCALE: 1"=20' SHEET 8 OF 18 SHEETS STA. 44+00.00 TO STA. 50+00.00					
4477-Rem27	PLOT DATE = 1/25/2016	CHECKED - KLB	REVISED -			CONTRACT NO. 61C68					
		DATE -	REVISED -			ILLINOIS FED. AID PROJECT					





**LEGEND**

-  HOT-MIX ASPHALT SURFACE REMOVAL, 5"
-  DRIVEWAY PAVEMENT REMOVAL
-  SIDEWALK REMOVAL
-  PAVEMENT REMOVAL
-  COMBINATION CURB AND GUTTER REMOVAL
-  TREE REMOVAL
-  ADJUST FRAME AND GRATE
-  ADJUST FRAME LID

**GHA** GEWALT HAMILTON ASSOCIATES, INC.

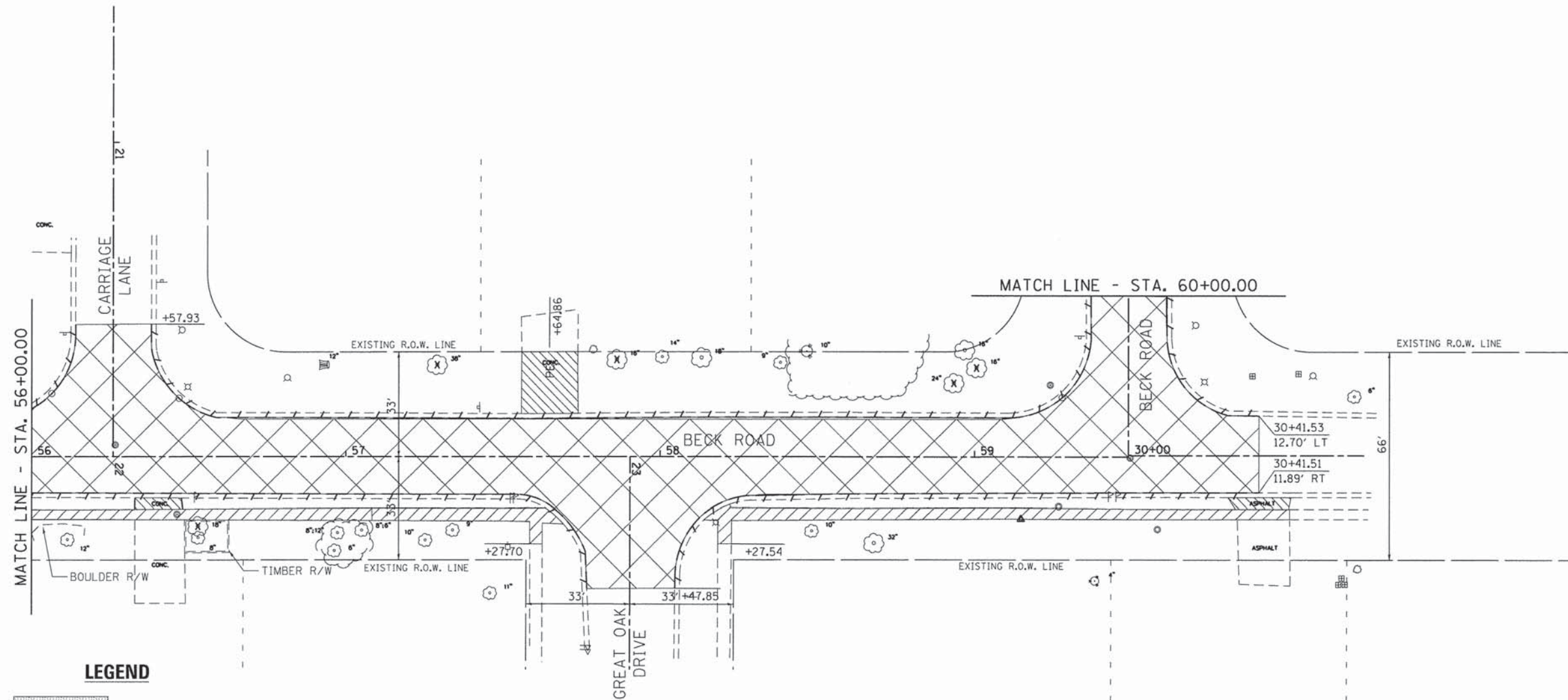
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4477-Rem28	PLOT DATE = 1/25/2016	CHECKED - KLB	REVISED -
		DATE -	REVISED -

**STATE OF ILLINOIS  
DEPARTMENT OF TRANSPORTATION**

**REMOVAL PLAN  
BECK ROAD**

SCALE: 1"=20' SHEET 9 OF 18 SHEETS STA. 50+00.00 TO STA. 56+00.00

F.A.U. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
160	14-00030-00-RS	LAKE	213	41
CONTRACT NO. 61C68				
ILLINOIS FED. AID PROJECT				



**LEGEND**

- HOT-MIX ASPHALT SURFACE REMOVAL, 5"
- DRIVEWAY PAVEMENT REMOVAL
- SIDEWALK REMOVAL
- PAVEMENT REMOVAL
- COMBINATION CURB AND GUTTER REMOVAL
- TREE REMOVAL
- ADJUST FRAME AND GRATE
- ADJUST FRAME LID

**GHA** GEWALT HAMILTON ASSOCIATES, INC.

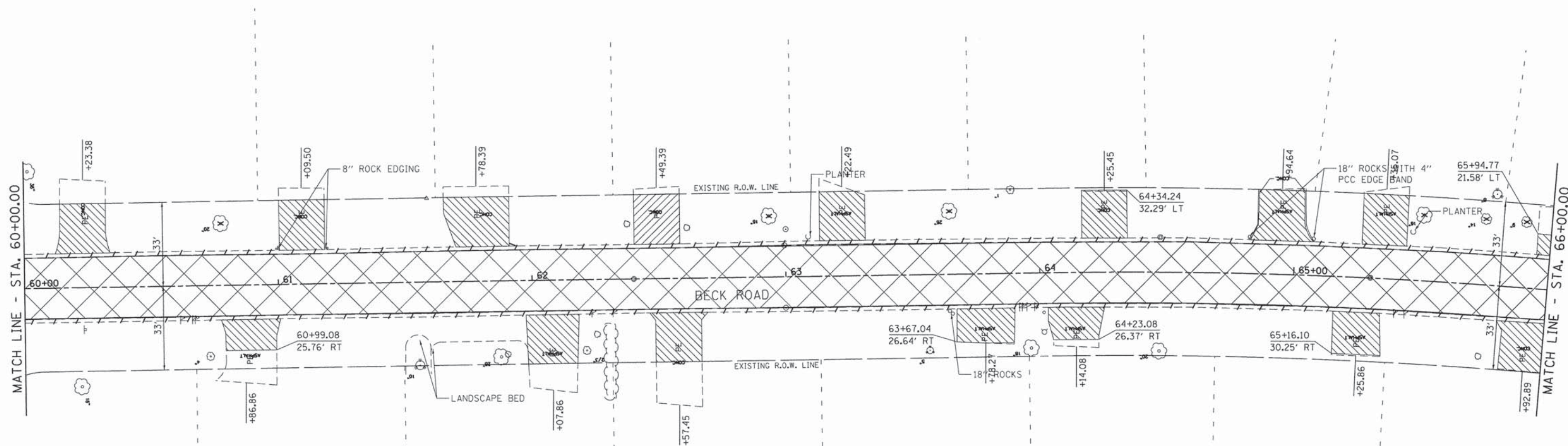
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4477-Rem29	PLOT DATE = 1/25/2016	CHECKED - KLB	REVISED -
		DATE -	REVISED -

**STATE OF ILLINOIS  
DEPARTMENT OF TRANSPORTATION**

**REMOVAL PLAN  
BECK ROAD**

SCALE: 1"=20'    SHEET 10 OF 18 SHEETS    STA. 56+00.00 TO STA. 60+00.00

F.A.U. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
160	14-00030-00-RS	LAKE	213	42
CONTRACT NO. 61C68				
ILLINOIS FED. AID PROJECT				



**LEGEND**

- HOT-MIX ASPHALT SURFACE REMOVAL, 5"
- DRIVEWAY PAVEMENT REMOVAL
- SIDEWALK REMOVAL
- PAVEMENT REMOVAL
- COMBINATION CURB AND GUTTER REMOVAL
- TREE REMOVAL
- ADJUST FRAME AND GRATE
- ADJUST FRAME LID

**CHA** GEWALT HAMILTON ASSOCIATES, INC.

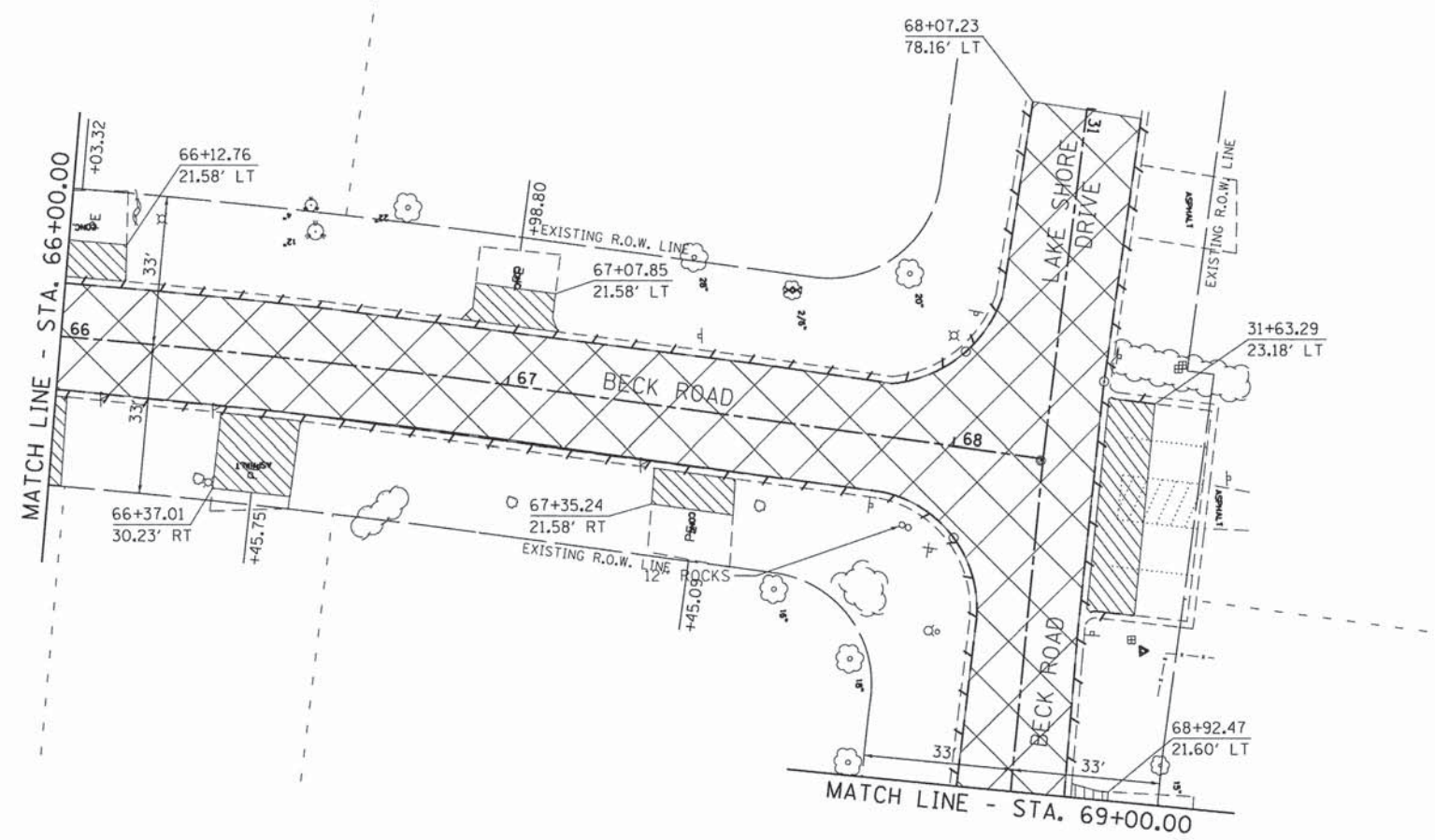
FILE NAME = 4477-Rem11.dgn	USER NAME = mcolem	DESIGNED - MAC	REVISED -
GH# 4477.025	PLOT SCALE = 1/2"=8'	DRAWN - ZCW	REVISED -
4477-Rem30	PLOT DATE = 1/25/2016	CHECKED - KLB	REVISED -
		DATE -	REVISED -

**STATE OF ILLINOIS  
DEPARTMENT OF TRANSPORTATION**


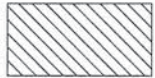


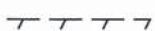



**REMOVAL PLAN  
BECK ROAD**

SCALE: 1"=20'    SHEET 11 OF 18 SHEETS    STA. 60+00.00 TO STA. 66+00.00

F.A.U. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
160	14-00030-00-RS	LAKE	213	43
CONTRACT NO. 61C68				
ILLINOIS FED. AID PROJECT				



**LEGEND**

-  HOT-MIX ASPHALT SURFACE REMOVAL, 5"
-  DRIVEWAY PAVEMENT REMOVAL
-  SIDEWALK REMOVAL
-  PAVEMENT REMOVAL
-  COMBINATION CURB AND GUTTER REMOVAL
-  TREE REMOVAL
-  ADJUST FRAME AND GRATE
-  ADJUST FRAME LID

**GEWALT HAMILTON ASSOCIATES, INC.**

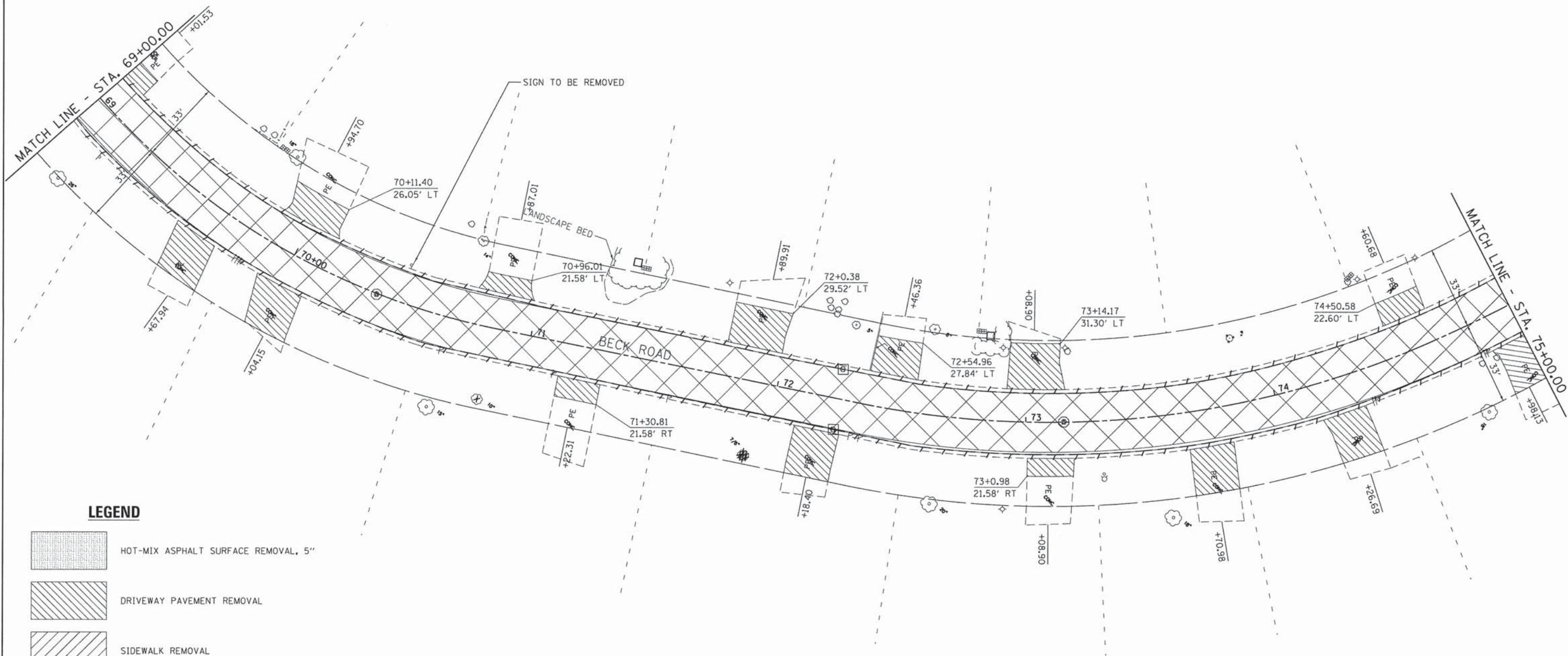
FILE NAME = 4477-Rem12.dgn	USER NAME = mcoleman	DESIGNED - MAC	REVISED -
GHA* 4477.025		DRAWN - ZCW	REVISED -
4477-Rem31	PLOT SCALE = 1:20	CHECKED - KLB	REVISED -
	PLOT DATE = 1/25/2016	DATE -	REVISED -

**STATE OF ILLINOIS  
DEPARTMENT OF TRANSPORTATION**









**REMOVAL PLAN  
BECK ROAD**

SCALE: 1"=20'    SHEET 12 OF 18 SHEETS    STA. 66+00.00 TO STA. 69+00.00

F.A.U. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
160	14-00030-00-RS	LAKE	213	44
CONTRACT NO. 61C68				
ILLINOIS FED. AID PROJECT				

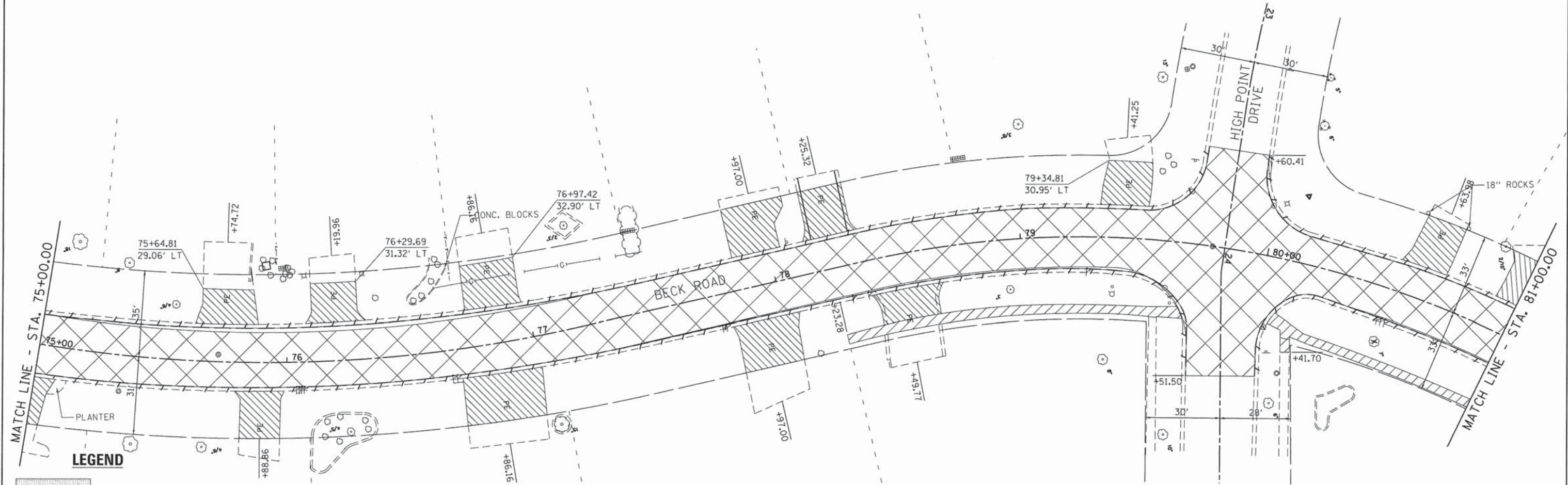


**LEGEND**





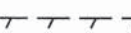



-  HOT-MIX ASPHALT SURFACE REMOVAL, 5"
-  DRIVEWAY PAVEMENT REMOVAL
-  SIDEWALK REMOVAL
-  PAVEMENT REMOVAL
-  COMBINATION CURB AND GUTTER REMOVAL
-  TREE REMOVAL
-  ADJUST FRAME AND GRATE
-  ADJUST FRAME LID

**GHA** GEWALT HAMILTON ASSOCIATES, INC.

FILE NAME = 4477-Rem13.dgn	USER NAME = mcoleman	DESIGNED - MAC	REVISED -	<b>STATE OF ILLINOIS DEPARTMENT OF TRANSPORTATION</b>	<b>REMOVAL PLAN BECK ROAD</b>	F.A.U. RTE. 160	SECTION 14-00030-00-RS	COUNTY LAKE	TOTAL SHEETS 213	SHEET NO. 45	
GH# 4477.025	PLOT SCALE = 1/2"=20'	CHECKED - KLB	REVISED -			SCALE: 1"=20'    SHEET 13 OF 18 SHEETS    STA. 69+00.00 TO STA. 75+00.00					
4477-Rem32	PLOT DATE = 1/25/2016	DATE -	REVISED -			CONTRACT NO. 61C68					
						ILLINOIS FED. AID PROJECT					



**LEGEND**

-  HOT-MIX ASPHALT SURFACE REMOVAL, 5"
-  DRIVEWAY PAVEMENT REMOVAL
-  SIDEWALK REMOVAL
-  PAVEMENT REMOVAL
-  COMBINATION CURB AND GUTTER REMOVAL
-  TREE REMOVAL
-  ADJUST FRAME AND GRATE
-  ADJUST FRAME LID

**GEWALT HAMILTON ASSOCIATES, INC.**

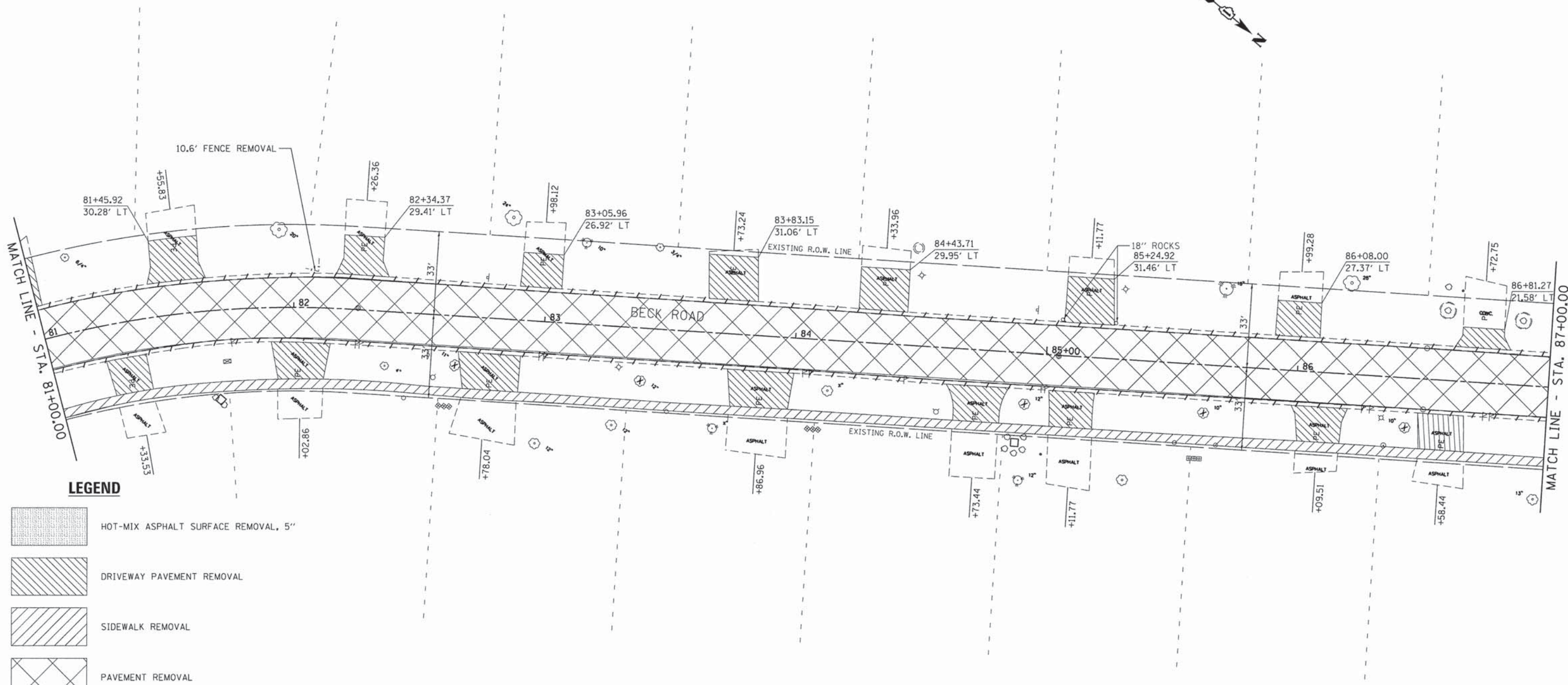
FILE NAME = 4477-Rem14.dgn	USER NAME = mcolemen	DESIGNED - MAC	REVISED -
DHA* 4477.025	PLOT SCALE = 1:20	DRAWN - ZCW	REVISED -
4477-Rem33	PLOT DATE = 1/25/2016	CHECKED - KLB	REVISED -
		DATE -	REVISED -

**STATE OF ILLINOIS  
DEPARTMENT OF TRANSPORTATION**









**REMOVAL PLAN  
BECK ROAD**

SCALE: 1"=20'    SHEET 14 OF 18 SHEETS    STA. 75+00.00 TO STA. 81+00.00

F.A.U. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
160	14-00030-00-R5	LAKE	213	46
CONTRACT NO. 61C68				
ILLINOIS FED. AID PROJECT				



**LEGEND**

-  HOT-MIX ASPHALT SURFACE REMOVAL, 5"
-  DRIVEWAY PAVEMENT REMOVAL
-  SIDEWALK REMOVAL
-  PAVEMENT REMOVAL
-  COMBINATION CURB AND GUTTER REMOVAL
-  TREE REMOVAL
-  ADJUST FRAME AND GRATE
-  ADJUST FRAME LID

**CHA** GEWALT HAMILTON ASSOCIATES, INC.

FILE NAME = 4477-Rem15.dgn  
GHA# 4477.025  
4477-Rem34

USER NAME = mcoleman  
DESIGNED - MAC  
DRAWN - ZCW  
CHECKED - KLB  
DATE -

DESIGNED - MAC  
DRAWN - ZCW  
CHECKED - KLB  
DATE -

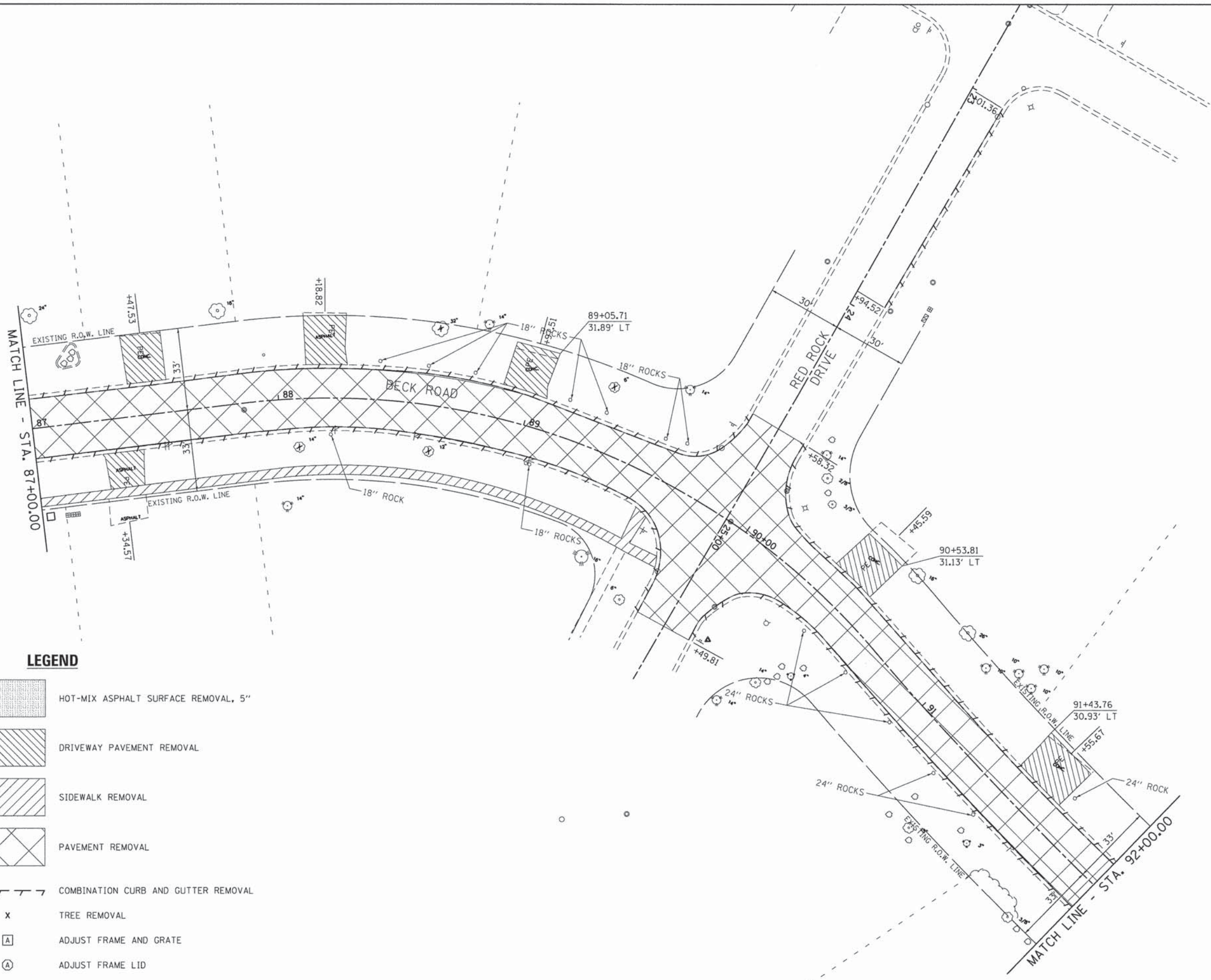
REVISED -  
REVISED -  
REVISED -  
REVISED -

**STATE OF ILLINOIS  
DEPARTMENT OF TRANSPORTATION**





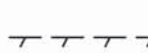



**REMOVAL PLAN  
BECK ROAD**

SCALE: 1"=20'    SHEET 15 OF 18 SHEETS    STA. 81+00.00 TO STA. 87+00.00

F.A.U. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
160	14-00030-00-RS	LAKE	213	47
CONTRACT NO. 61C68				
ILLINOIS FED. AID PROJECT				



**LEGEND**

-  HOT-MIX ASPHALT SURFACE REMOVAL, 5"
-  DRIVEWAY PAVEMENT REMOVAL
-  SIDEWALK REMOVAL
-  PAVEMENT REMOVAL
-  COMBINATION CURB AND GUTTER REMOVAL
-  TREE REMOVAL
-  ADJUST FRAME AND GRATE
-  ADJUST FRAME LID

**GEWALT HAMILTON ASSOCIATES, INC.**

FILE NAME = 4477-Rem16.dgn  
 GHA\* 4477.025  
 4477-Rem35

USER NAME = mcoleman  
 PLOT SCALE = 1:20  
 PLOT DATE = 1/25/2016

DESIGNED - MAC  
 DRAWN - ZCW  
 CHECKED - KLB  
 DATE -

REVISED -  
 REVISED -  
 REVISED -  
 REVISED -

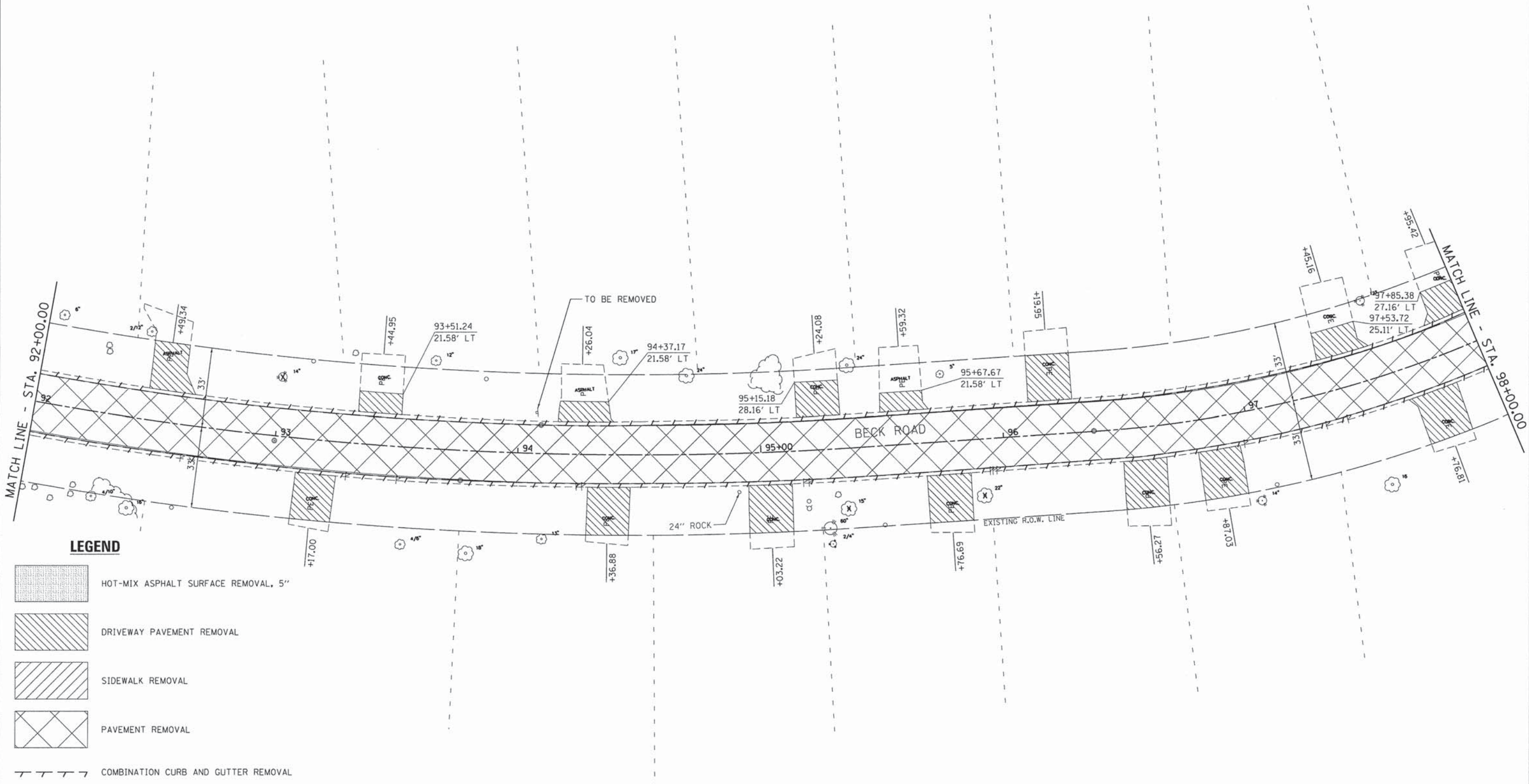
**STATE OF ILLINOIS  
 DEPARTMENT OF TRANSPORTATION**

SCALE: 1"=20'  
 SHEET 16 OF 18 SHEETS  
 STA. 87+00.00 TO STA. 92+00.00









**REMOVAL PLAN  
 BECK ROAD**

F.A.U. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
160	14-00030-00-RS	LAKE	213	48
CONTRACT NO. 61C68				
ILLINOIS FED. AID PROJECT				





**LEGEND**

-  HOT-MIX ASPHALT SURFACE REMOVAL, 5"
-  DRIVEWAY PAVEMENT REMOVAL
-  SIDEWALK REMOVAL
-  PAVEMENT REMOVAL
-  COMBINATION CURB AND GUTTER REMOVAL
-  TREE REMOVAL
-  ADJUST FRAME AND GRATE
-  ADJUST FRAME LID

**GHA** GEWALT HAMILTON ASSOCIATES, INC.

FILE NAME = 4477-Rem17.dgn  
GHA# 4477.025  
4477-Rem36

USER NAME = mcoleman  
PLOT SCALE = 1:20  
PLOT DATE = 1/25/2016

DESIGNED - MAC  
DRAWN - ZCW  
CHECKED - KLB  
DATE -

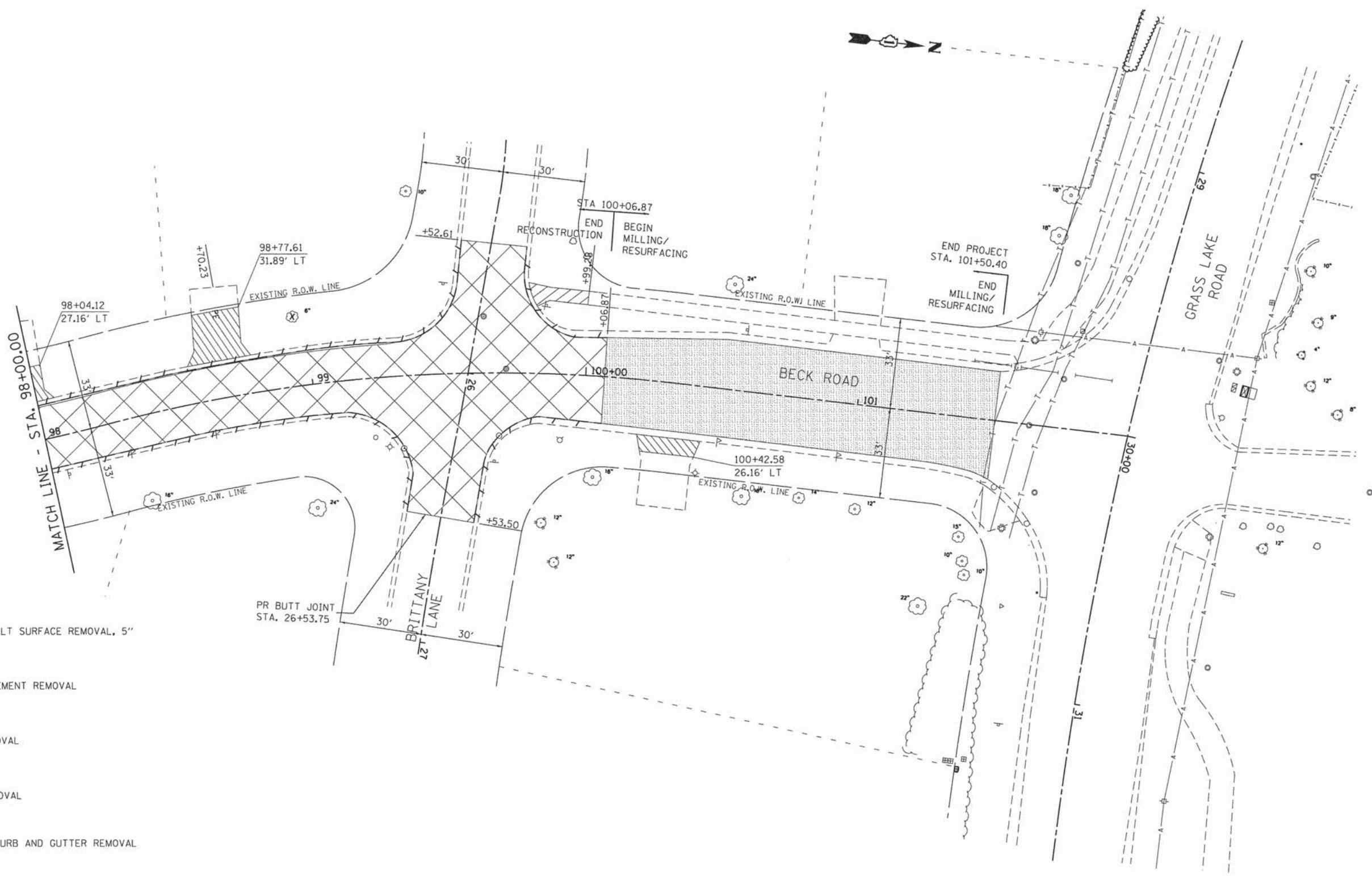
REVISED -  
REVISED -  
REVISED -  
REVISED -

**STATE OF ILLINOIS  
DEPARTMENT OF TRANSPORTATION**





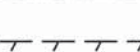



**REMOVAL PLAN  
BECK ROAD**

SCALE: 1"=20'    SHEET 17 OF 18 SHEETS    STA. 92+00.00 TO STA. 98+00.00

F.A.U. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
160	14-00030-00-RS	LAKE	213	49
CONTRACT NO. 61C68				
ILLINOIS FED. AID PROJECT				



**LEGEND**

-  HOT-MIX ASPHALT SURFACE REMOVAL, 5"
-  DRIVEWAY PAVEMENT REMOVAL
-  SIDEWALK REMOVAL
-  PAVEMENT REMOVAL
-  COMBINATION CURB AND GUTTER REMOVAL
-  TREE REMOVAL
-  ADJUST FRAME AND GRATE
-  ADJUST FRAME LID

**GHA GEVART HAMILTON ASSOCIATES, INC.**

FILE NAME = 4477-Rem18.dgn	USER NAME = mcolemar	DESIGNED - MAC	REVISED -
GHA* 4477.025	PLOT SCALE = 1:20	DRAWN - ZCW	REVISED -
4477-Rem37	PLOT DATE = 2/8/2016	CHECKED - KLB	REVISED -
		DATE -	REVISED -

**STATE OF ILLINOIS  
DEPARTMENT OF TRANSPORTATION**

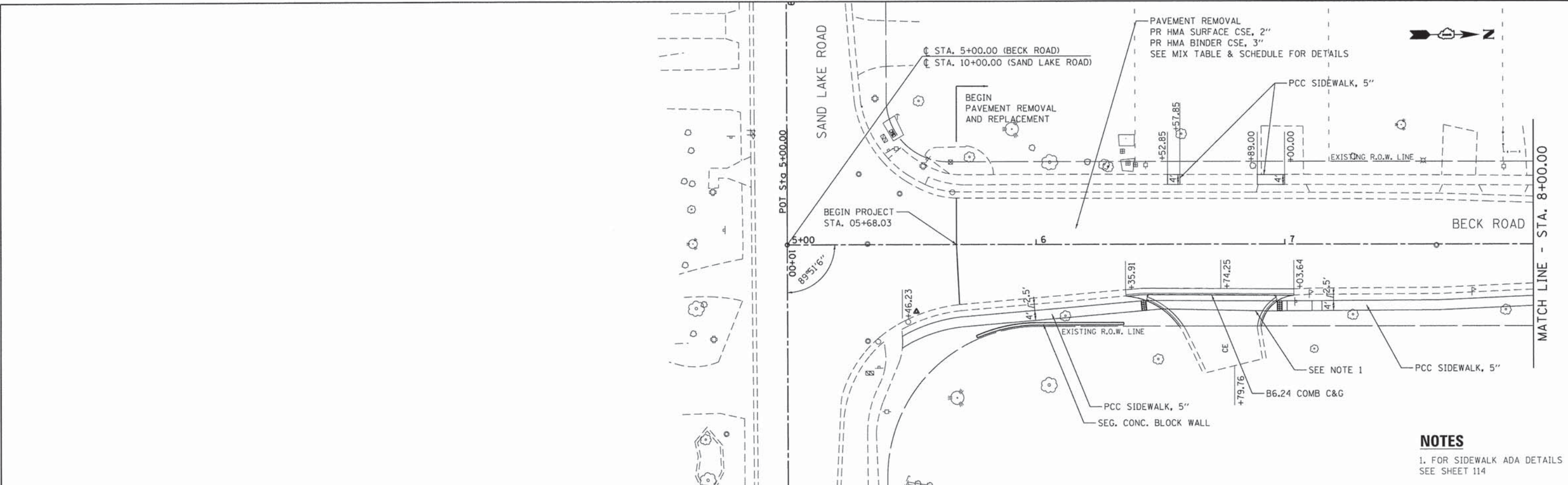
**REMOVAL PLAN  
BECK ROAD**

SCALE: 1"=20'    SHEET 18 OF 18 SHEETS    STA. 98+00.00 TO STA. E.O.P

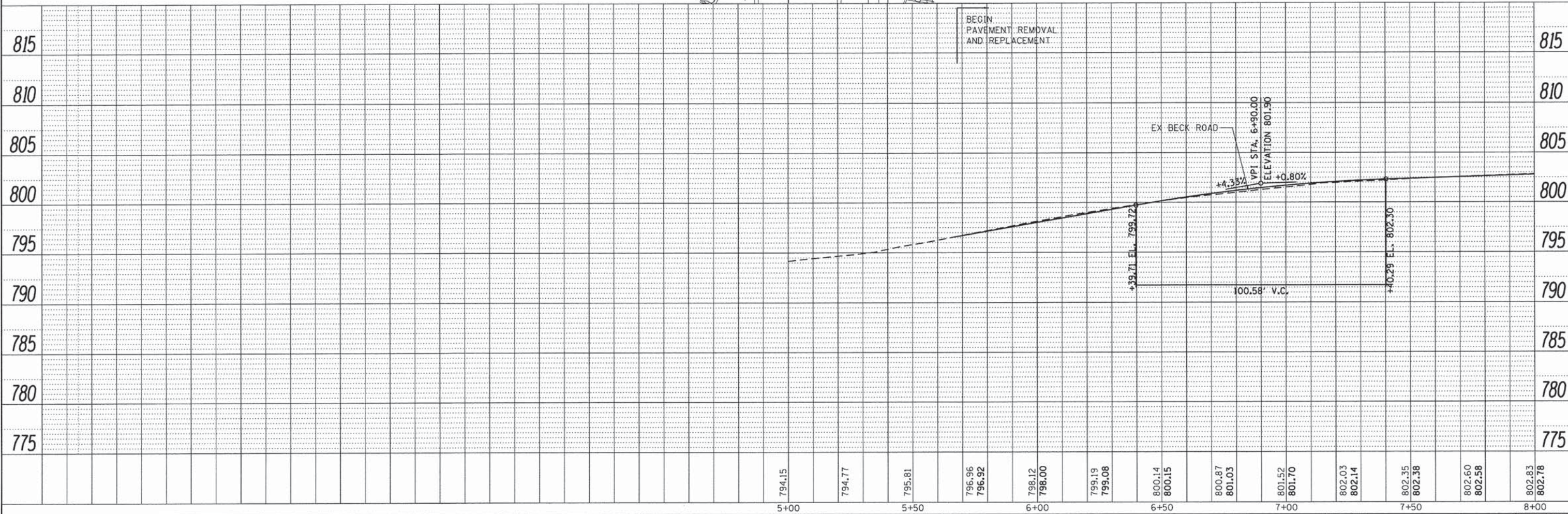
F.A.U. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
160	14-00030-00-RS	LAKE	213	50
<b>CONTRACT NO. 61C68</b>				
ILLINOIS FED. AID PROJECT				

PLAN	SURVEYED	DATE	BY
	PLOTTED	2/20/14	GHA
	REVISIONS CHECKED	7/25/2016	mclemson
	NOTE BOOK	5/27/14	KLB
	NO.	5/27/14	GHA
		4477-PLNPRF01.dgn	

PROFILE	SURVEYED	DATE	BY
	PLOTTED	2/20/14	GHA
	REVISIONS CHECKED	7/25/2016	mclemson
	NOTE BOOK	5/27/14	KLB
	NO.	5/27/14	GHA
		4477-PLNPRF01.dgn	



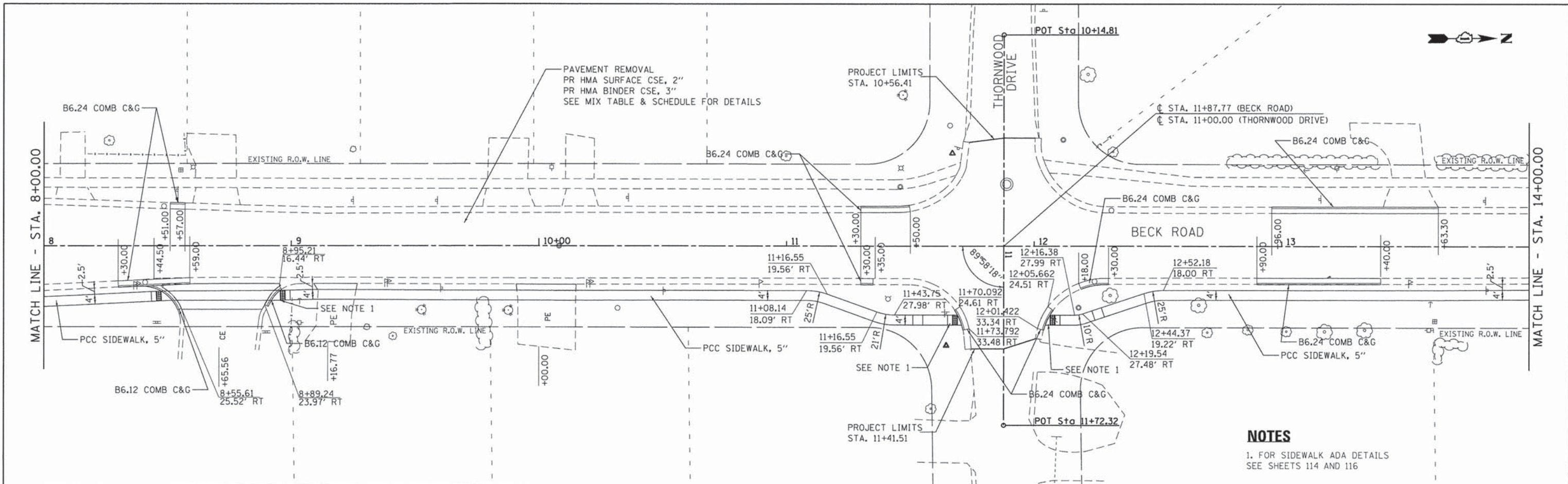
**NOTES**  
1. FOR SIDEWALK ADA DETAILS SEE SHEET 114



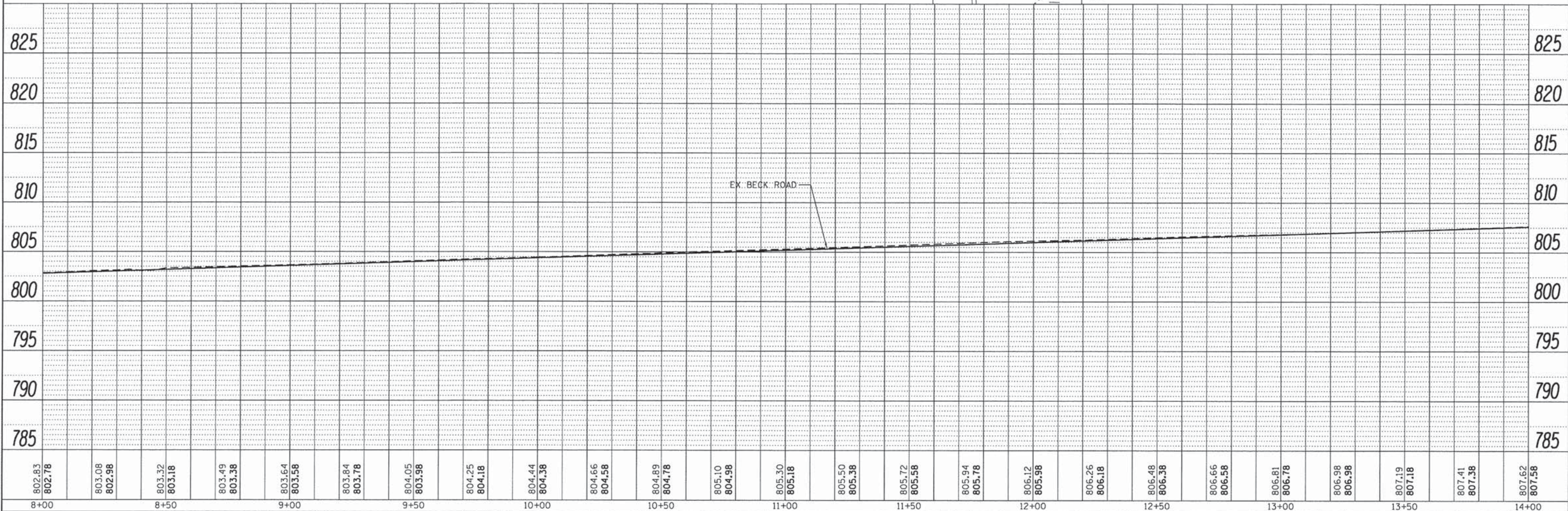
FILE NAME = 4477-PLNPRF01.dgn	USER NAME = mclemson	DESIGNED - MAC	REVISED -	<b>STATE OF ILLINOIS DEPARTMENT OF TRANSPORTATION</b>	<b>PLAN AND PROFILE BECK ROAD</b>	F.A.U. RTE. 160	SECTION 14-00030-00-RS	COUNTY LAKE	TOTAL SHEETS 213	SHEET NO. 51	
PLOT SCALE = 1:20	CHECKED - KLB	REVISED -	REVISED -			SCALE: 1"=20'	SHEET 1 OF 19 SHEETS	STA. B.O.P. TO STA. 8+00.00	CONTRACT NO. 61C68		(ILLINOIS) FED. AID PROJECT
PLOT DATE = 1/25/2016	DATE -	REVISED -	REVISED -								

PLAN	SURVEYED	DATE	2/10/14
	PLOTTED	BY	GH
	NOTE BOOK	CHECKED	GH
	NO.	BY	GH
		DATE	2/25/2016
		PROJECT	4477-PLNPRF02.dgn
		FILE NAME	4477-PLNPRF02.dgn

PROFILE	SURVEYED	DATE	2/10/14
	PLOTTED	BY	GH
	NOTE BOOK	CHECKED	GH
	NO.	BY	GH
		DATE	2/25/2016
		PROJECT	4477-PLNPRF02.dgn
		FILE NAME	4477-PLNPRF02.dgn



**NOTES**  
 1. FOR SIDEWALK ADA DETAILS  
 SEE SHEETS 114 AND 116

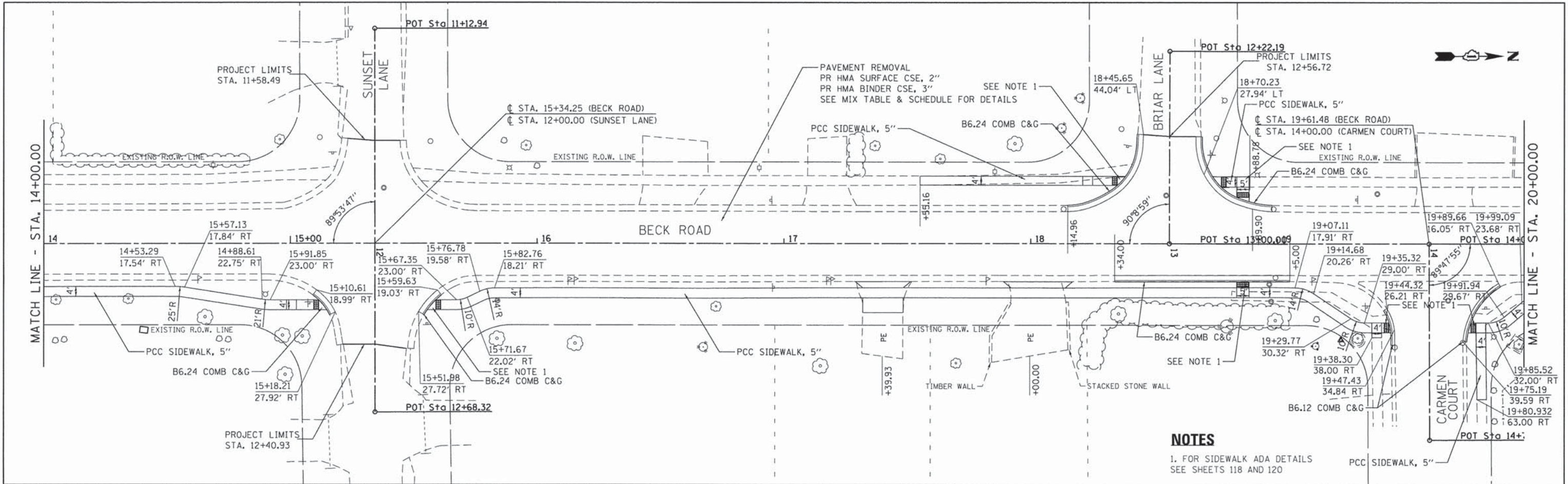


**GHA** GEWALT HAMILTON ASSOCIATES, INC.

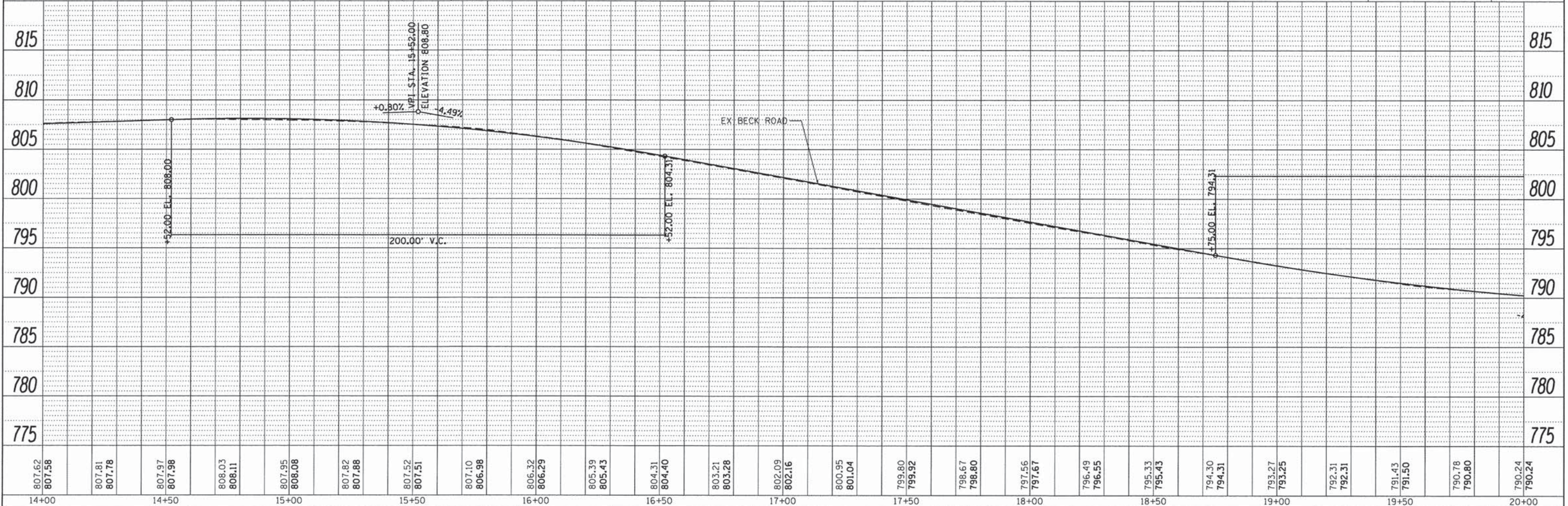
FILE NAME = 4477-PLNPRF02.dgn	USER NAME = mcoleman	DESIGNED - MAC	REVISED -	<b>STATE OF ILLINOIS DEPARTMENT OF TRANSPORTATION</b>	<b>PLAN AND PROFILE BECK ROAD</b>	F.A.U. RTE. 160	SECTION 14-00030-00-RS	COUNTY LAKE	TOTAL SHEETS 213	SHEET NO. 52	
PLOT SCALE = 1:20	CHECKED - KLB	DATE -	REVISED -			SCALE: 1"=20'	SHEET 2 OF 19 SHEETS	STA. 8+00.00 TO STA. 14+00.00	CONTRACT NO. 61C68		ILLINOIS FED. AID PROJECT
PLOT DATE = 1/25/2016	DATE -	REVISED -	REVISED -								
Default											

PLAN	SURVEYED	DATE	2/10/14
	PLOTTED	BY	incolumbon
	NOTED	CHECKED	5/7/14
	NO.	FILE NAME	4477-PLNPRF03.dgn

PROFILE	SURVEYED	DATE	2/10/14
	PLOTTED	BY	incolumbon
	NOTED	CHECKED	5/7/14
	NO.	FILE NAME	4477-PLNPRF03.dgn



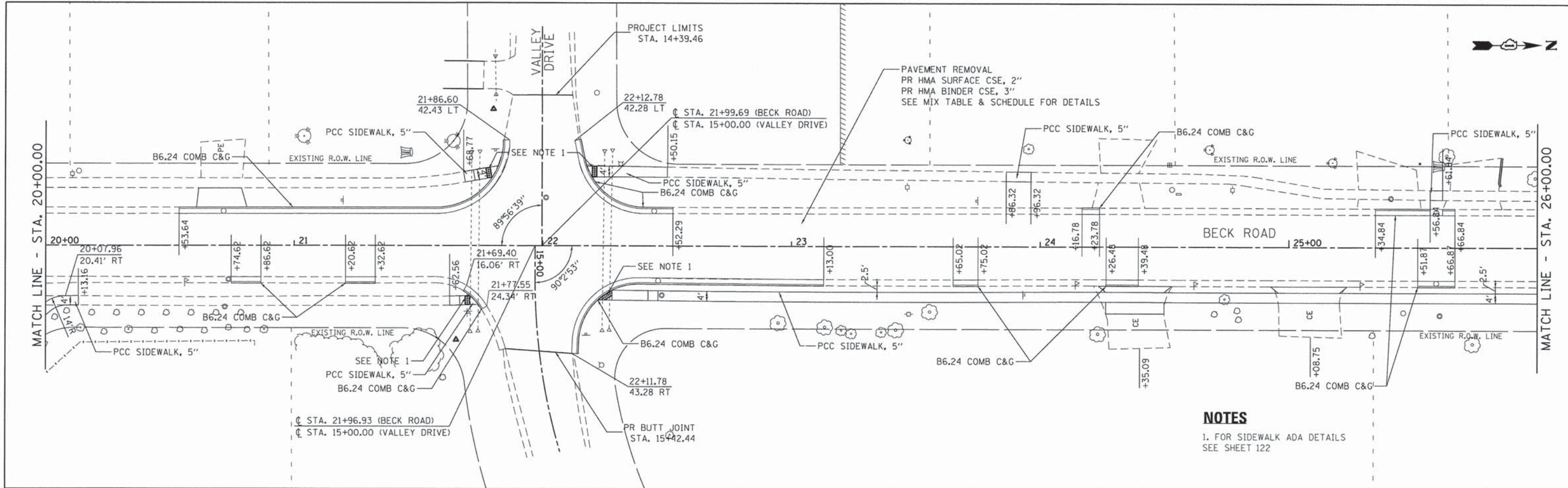
**NOTES**  
 1. FOR SIDEWALK ADA DETAILS SEE SHEETS 118 AND 120



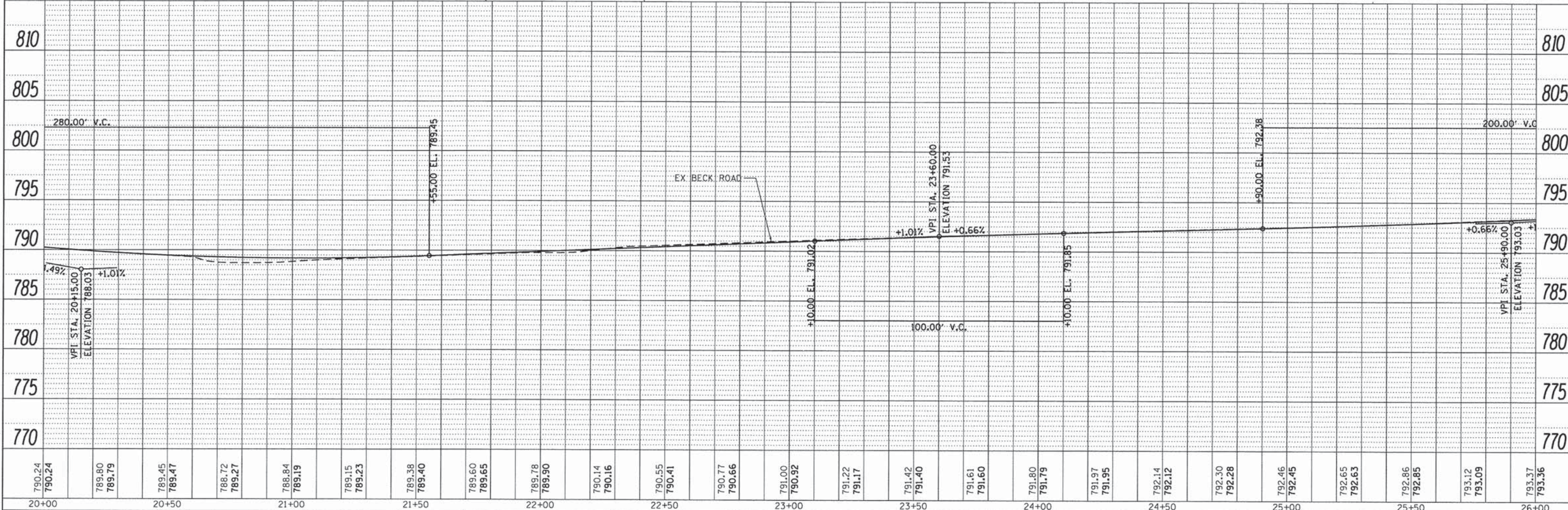
FILE NAME = 4477-PLNPRF03.dgn	USER NAME = mcoleman	DESIGNED - MAC	REVISED -	<b>STATE OF ILLINOIS</b> <b>DEPARTMENT OF TRANSPORTATION</b>	<b>PLAN AND PROFILE</b> <b>BECK ROAD</b>	F.A.U. RTE. 160	SECTION 14-00030-00-RS	COUNTY LAKE	TOTAL SHEETS 213	SHEET NO. 53		
PLOT SCALE = 1/2"=20'	CHECKED - KLB	REVISED -	SCALE: 1"=20'			SHEET 3 OF 19 SHEETS	STA. 14+00.00 TO STA. 20+00.00	CONTRACT NO. 61C68		ILLINOIS FED. AID PROJECT		
PLOT DATE = 1/25/2016	DATE -	REVISED -										

PLAN	SURVEYED	DATE	BY
NO.	PLOTTED	2/20/14	GHA
NO.	NOTED	2/25/2014	KLB
NO.	RT. OF WAY CHECKED	5/7/14	GHA
NO.	CAAD FILE NAME	4477-PLN-PRF-04.dgn	

PROFILE	SURVEYED	DATE	BY
NO.	PLOTTED	2/20/14	GHA
NO.	NOTED	2/25/2014	KLB
NO.	STRUCTURE NOTATION CHKD	5/7/14	GHA



**NOTES**  
 1. FOR SIDEWALK ADA DETAILS SEE SHEET 122



FILE NAME = 4477-PLN-PRF-04.dgn  
 USER NAME = mcoleman  
 PLOT SCALE = 1:20  
 PLOT DATE = 1/25/2016

DESIGNED - MAC  
 DRAWN - ZCW  
 CHECKED - KLB  
 DATE -

REVISED -  
 REVISED -  
 REVISED -  
 REVISED -

STATE OF ILLINOIS  
 DEPARTMENT OF TRANSPORTATION

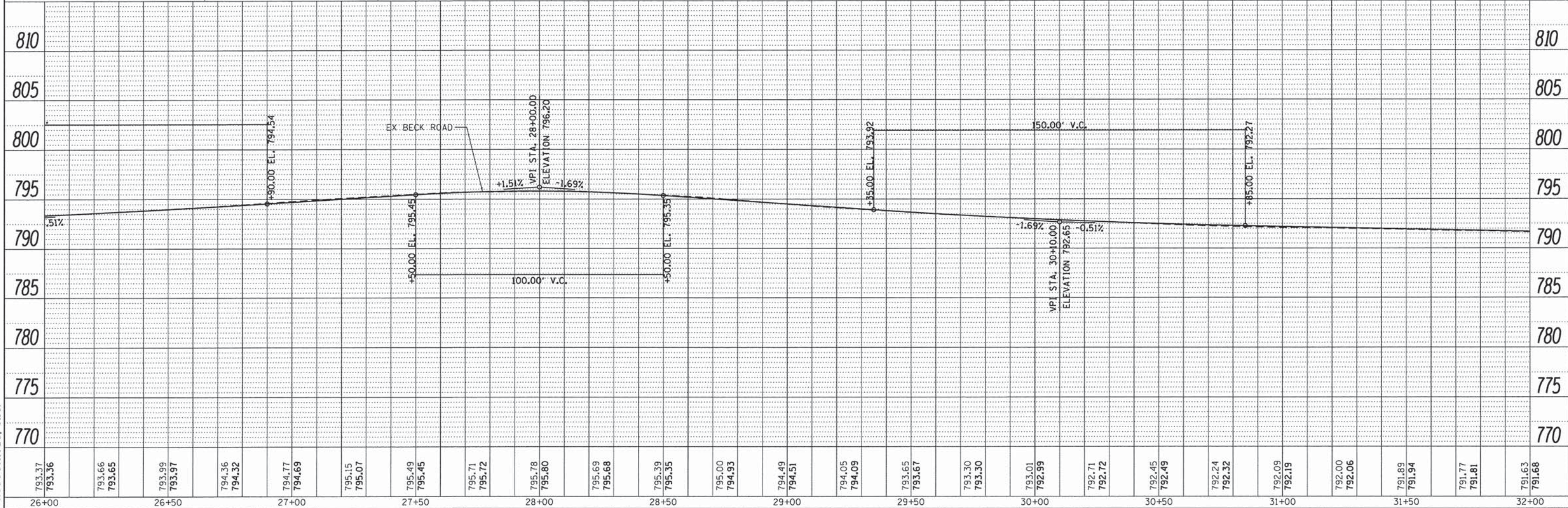
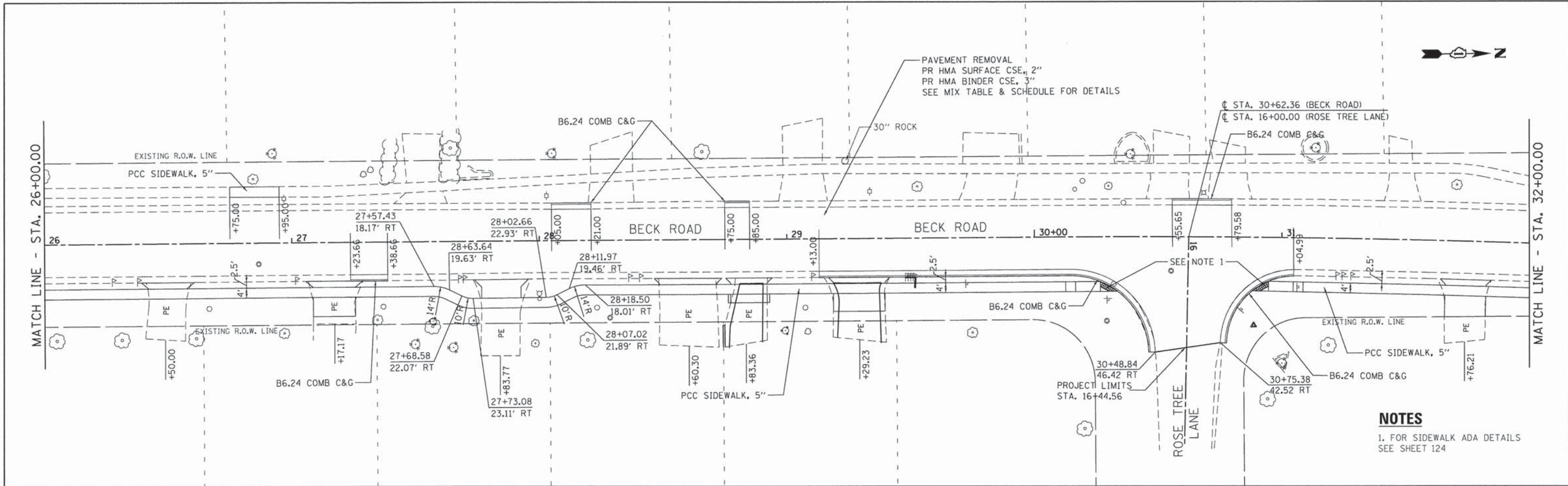
PLAN AND PROFILE  
 BECK ROAD  
 SCALE: 1"=20'  
 SHEET 4 OF 19 SHEETS  
 STA. 20+00.00 TO STA. 26+00.00

F.A.U. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
160	14-00030-00-RS	LAKE	213	54

CONTRACT NO. 61C68  
 ILLINOIS FED. AID PROJECT

PLAN	SURVEYED	GHA	DATE	2/10/14
	PLOTTED	INFORMATION		7/27/2016
	NOTE BOOK	CHECKED		5/7/14
		NO. 4477-PLNPRF05.dgn		

PROFILE	SURVEYED	GHA	DATE	2/10/14
	PLOTTED	INFORMATION		7/27/2016
	NOTE BOOK	CHECKED		5/7/14
		NO. 4477-PLNPRF05.dgn		



FILE NAME = 4477-PLNPRF05.dgn  
GHA\* 4477.025  
Default

USER NAME = mcoleman  
DESIGNED - MAC  
DRAWN - ZCW  
CHECKED - KLB  
DATE -

REVISED -  
REVISED -  
REVISED -  
REVISED -

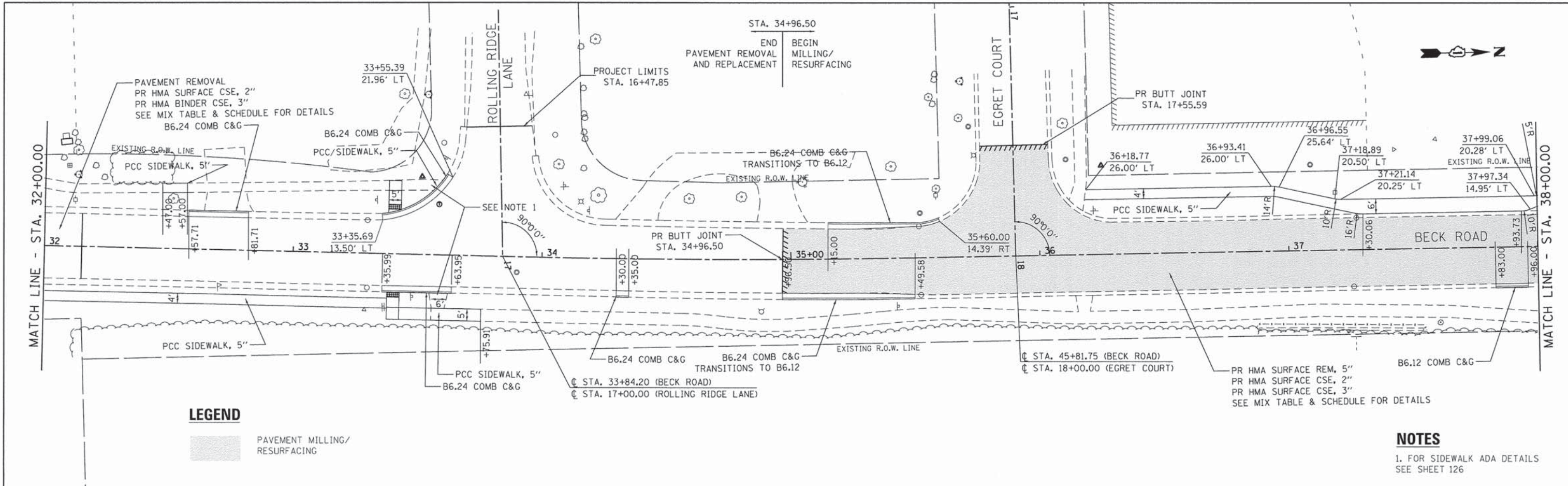
STATE OF ILLINOIS  
DEPARTMENT OF TRANSPORTATION

PLAN AND PROFILE  
BECK ROAD  
SCALE: 1"=20'  
SHEET 5 OF 19 SHEETS  
STA. 26+00.00 TO STA. 32+00.00

F.A.U. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
160	14-00030-00-RS	LAKE	213	55
CONTRACT NO. 61C68			[ILLINOIS] FED. AID PROJECT	

DATE	2/10/14
BY	CHA
PROJECT	4477-PLNPRF06.dgn
NO.	57/74
DATE	2/10/14
BY	CHA
PROJECT	4477-PLNPRF06.dgn
NO.	57/74
DATE	2/10/14
BY	CHA
PROJECT	4477-PLNPRF06.dgn
NO.	57/74

DATE	2/10/14
BY	CHA
PROJECT	4477-PLNPRF06.dgn
NO.	57/74
DATE	2/10/14
BY	CHA
PROJECT	4477-PLNPRF06.dgn
NO.	57/74
DATE	2/10/14
BY	CHA
PROJECT	4477-PLNPRF06.dgn
NO.	57/74

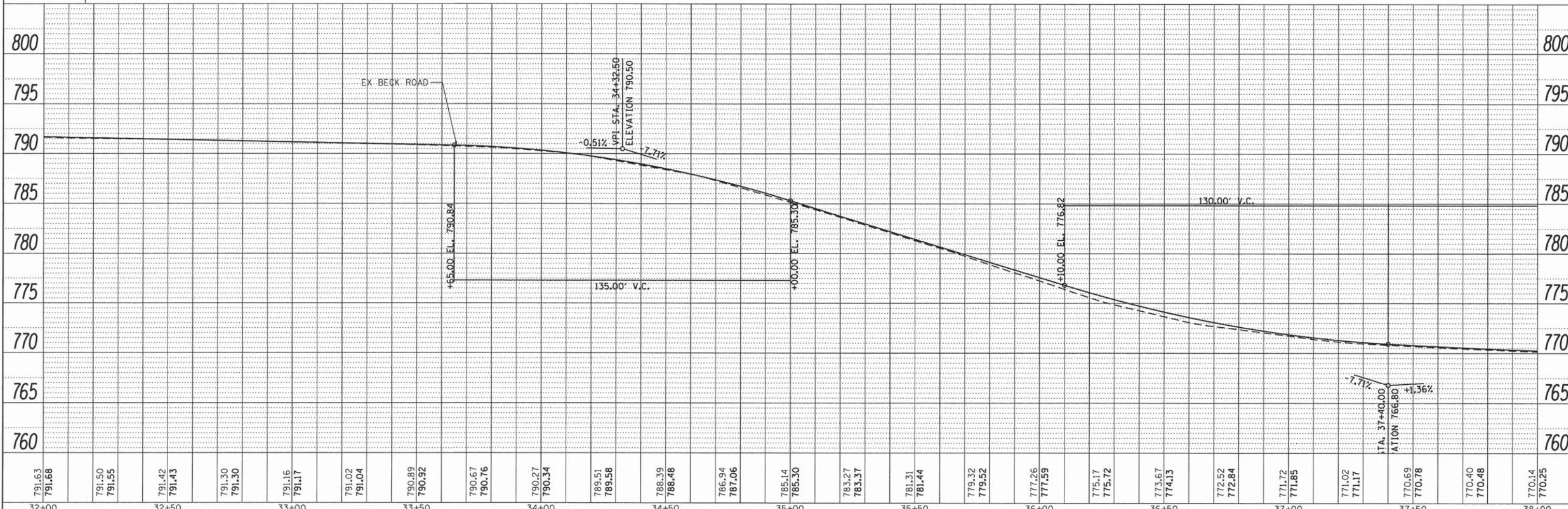


**LEGEND**

PAVEMENT MILLING/  
RESURFACING

**NOTES**

1. FOR SIDEWALK ADA DETAILS  
SEE SHEET 126

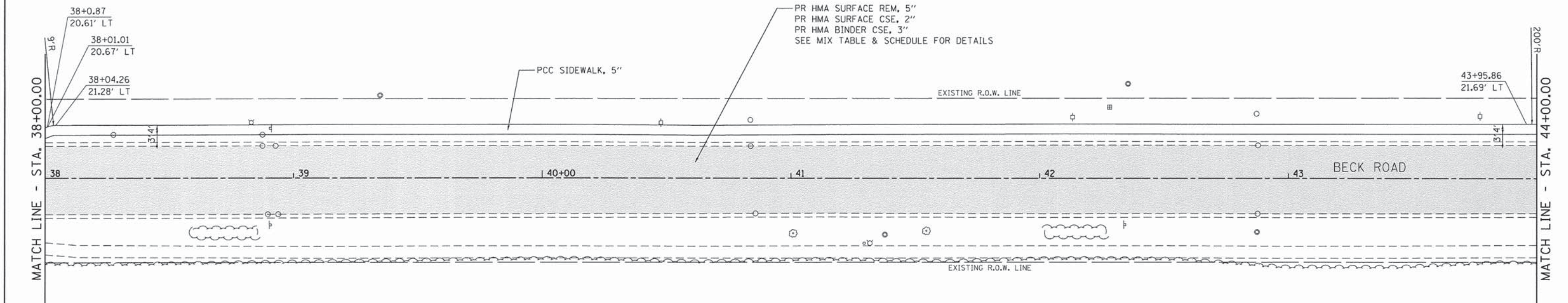


FILE NAME = 4477-PLNPRF06.dgn	USER NAME = mcoleman	DESIGNED - MAC	REVISED -	<b>STATE OF ILLINOIS DEPARTMENT OF TRANSPORTATION</b>	<b>PLAN AND PROFILE BECK ROAD</b>	F.A.U. RTE. 160	SECTION 14-00030-00-RS	COUNTY LAKE	TOTAL SHEETS 213	SHEET NO. 56	
PLOT SCALE = 1:20	CHECKED - KLB	REVISOR -	SCALE: 1"=20'			SHEET 6 OF 19 SHEETS	STA. 32+00.00 TO STA. 38+00.00	CONTRACT NO. 61C68		ILLINOIS FED. AID PROJECT	
PLOT DATE = 1/25/2016	DATE -	REVISOR -									



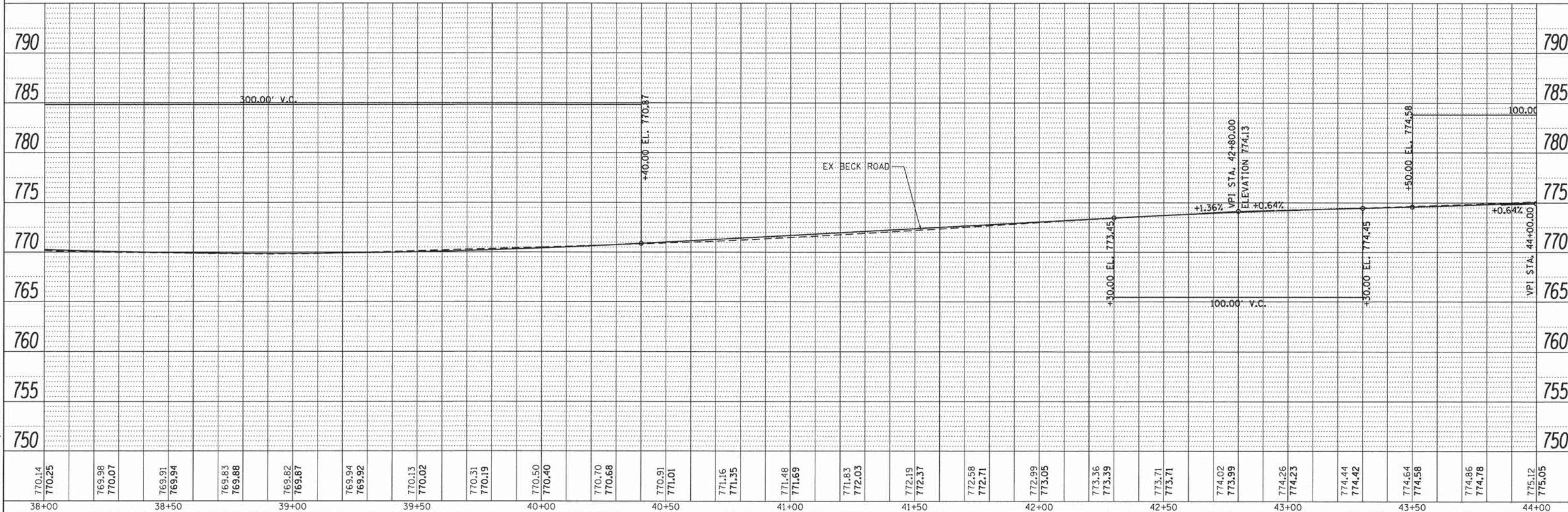
PLAN	SURVEYED	DATE	2/10/14
	PLOTTED	BY	CH
	NOTED	BY	CH
	CHKD	BY	CH
	APP'D	BY	CH
	NO.	PROJECT	4477-PLNPRF87.dgn

PROFILE	SURVEYED	DATE	2/10/14
	PLOTTED	BY	CH
	NOTED	BY	CH
	CHKD	BY	CH
	APP'D	BY	CH
	NO.	PROJECT	4477-PLNPRF87.dgn



**LEGEND**

PAVEMENT MILLING/  
RESURFACING



FILE NAME = 4477-PLNPRF87.dgn	USER NAME = mcoleman	DESIGNED - MAC	REVISED -	<b>STATE OF ILLINOIS</b> <b>DEPARTMENT OF TRANSPORTATION</b>	<b>PLAN AND PROFILE</b> <b>BECK ROAD</b>	F.A.U. RTE. 160	SECTION 14-00030-00-RS	COUNTY LAKE	TOTAL SHEETS 213	SHEET NO. 57
PLOT SCALE = 1:20	CHECKED - KLB	REVISED -	REVISED -			CONTRACT NO. 61C68				
PLOT DATE = 1/25/2016	DATE -	REVISED -	REVISED -			ILLINOIS FED. AID PROJECT				
SCALE: 1"=20'	SHEET 7 OF 19 SHEETS	STA. 38+00.00 TO STA. 44+00.00								



DATE	2/20/14
BY	ZAVITZ
CHG	incorrection
PLANNING	5/27/13
DESIGN	5/7/13
CONSTRUCTION	5/7/13
NO. OF WAY CHECKED	
NO. OF ROADWAY CHECKED	
CADD FILE NAME	4477-PLNPRF09.dwg

DATE	2/20/14
BY	ZAVITZ
CHG	incorrection
PLANNING	5/27/13
DESIGN	5/7/13
CONSTRUCTION	5/7/13
NO. OF WAY CHECKED	
NO. OF ROADWAY CHECKED	
CADD FILE NAME	4477-PLNPRF09.dwg



FILE NAME = 4477-PLNPRF09.dwg  
 USER NAME = mcoleman  
 DESIGNED - MAC  
 DRAWN - ZCW  
 CHECKED - KLB  
 DATE -

DESIGNED - MAC  
 DRAWN - ZCW  
 CHECKED - KLB  
 DATE -

REVISED -  
 REVISED -  
 REVISED -  
 REVISED -

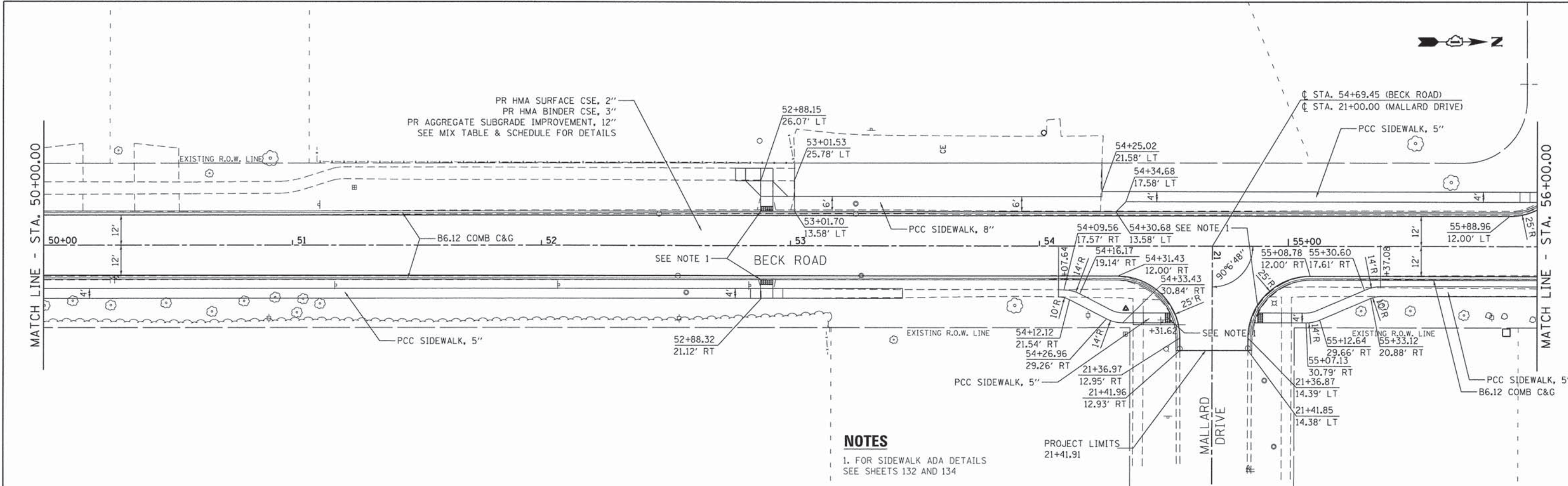
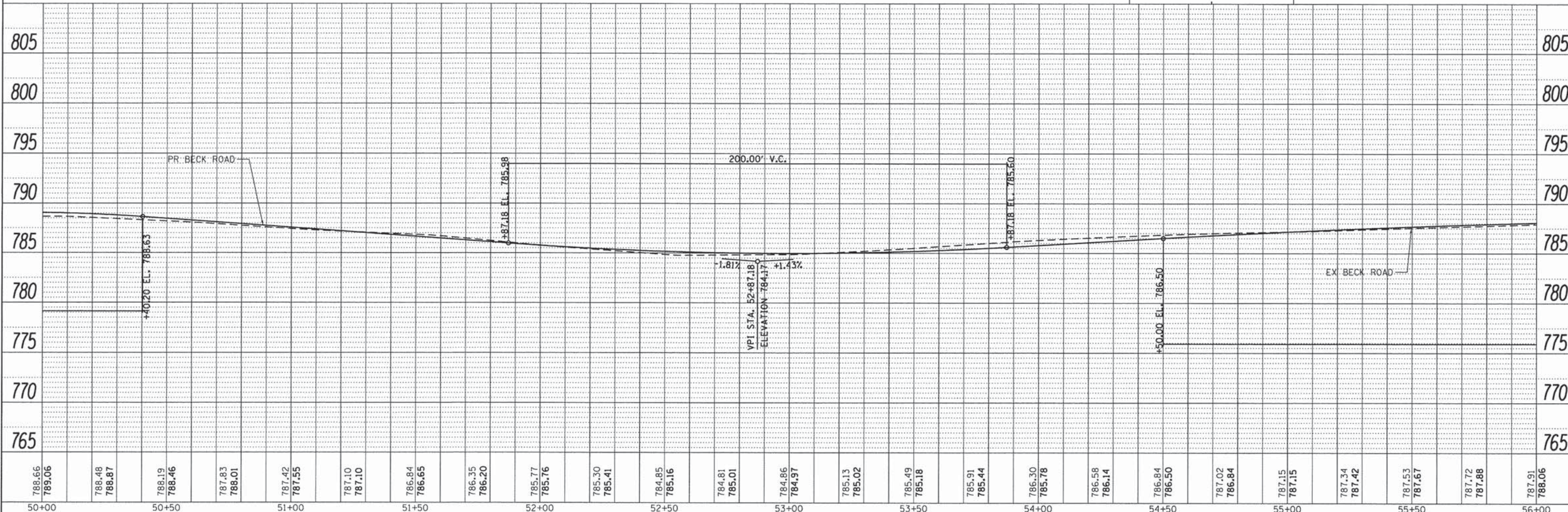
STATE OF ILLINOIS  
 DEPARTMENT OF TRANSPORTATION

PLAN AND PROFILE  
 BECK ROAD

F.A.U. R.T.E. 160  
 SECTION 14-00030-00-RS  
 COUNTY LAKE  
 TOTAL SHEETS 213  
 SHEET NO. 59  
 CONTRACT NO. 61C68  
 ILLINOIS FED. AID PROJECT

SCALE: 1"=20'  
 SHEET 9 OF 19 SHEETS  
 STA. 50+00.00 TO STA. 56+00.00

50+00 50+50 51+00 51+50 52+00 52+50 53+00 53+50 54+00 54+50 55+00 55+50 56+00



**NOTES**  
 1. FOR SIDEWALK ADA DETAILS SEE SHEETS 132 AND 134

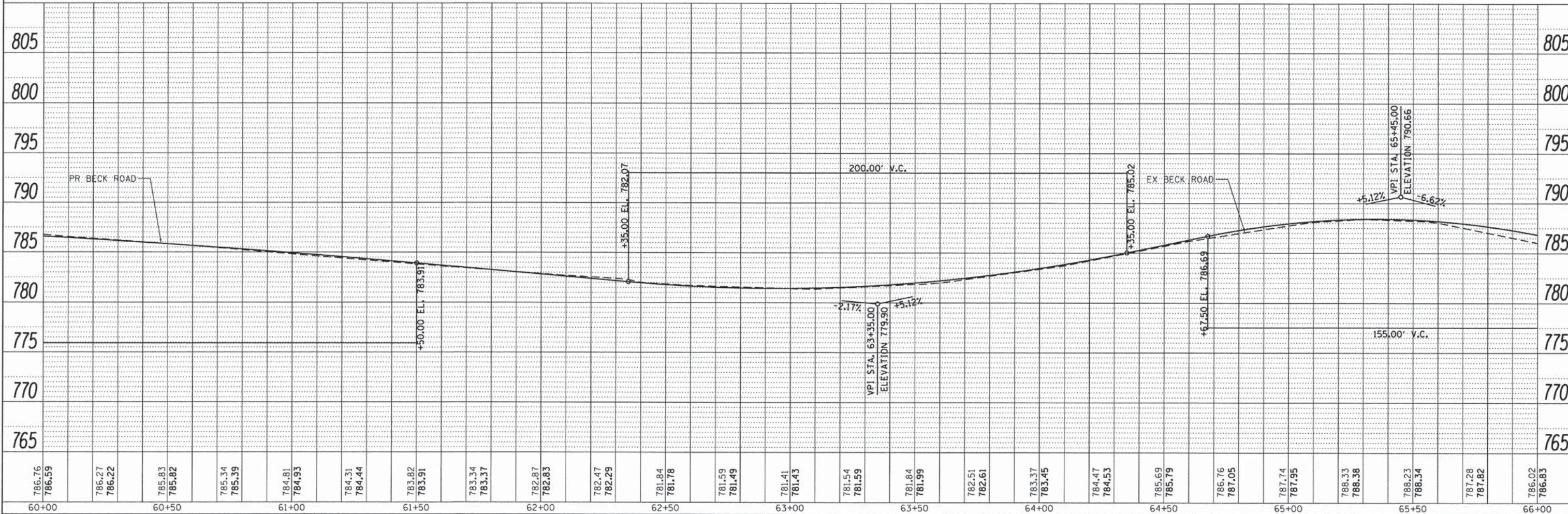
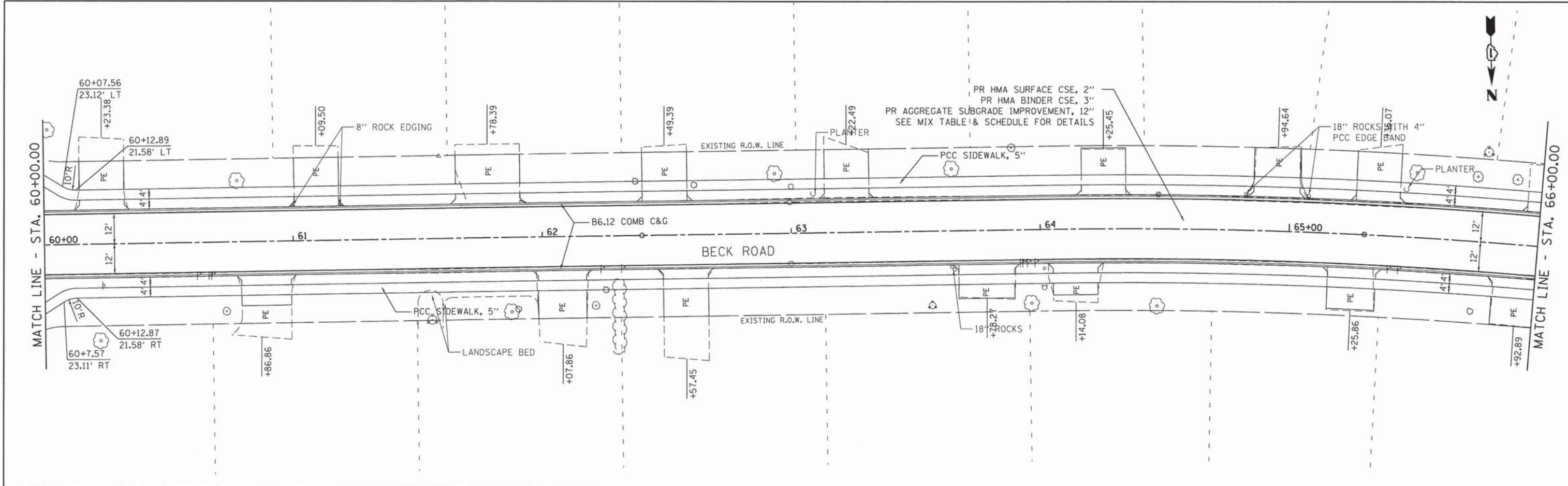
PROJECT LIMITS  
 21+41.91





PLAN	SURVEYED	DATE	2/10/14
	PLOTTED	BY	2/10/14
	NOTED	BY	2/10/14
	CHECKED	BY	2/10/14
	REVISION	BY	2/10/14
	NO.	DATE	2/10/14
	FILE NAME	4477-PLNPRF11.DWG	

PROFILE	SURVEYED	DATE	2/10/14
	PLOTTED	BY	2/10/14
	NOTED	BY	2/10/14
	CHECKED	BY	2/10/14
	REVISION	BY	2/10/14
	NO.	DATE	2/10/14
	FILE NAME	4477-PLNPRF11.DWG	

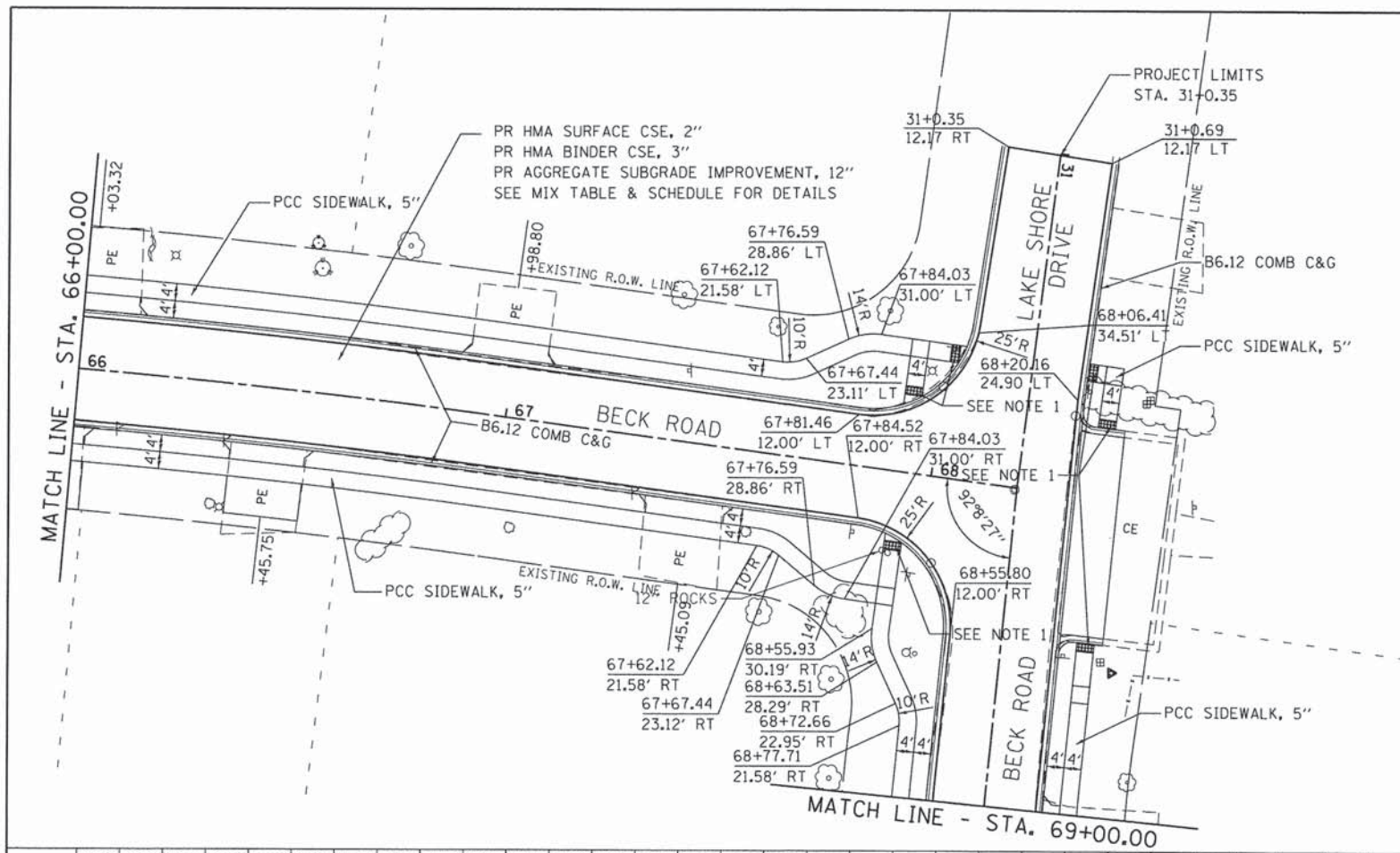


FILE NAME = 4477-PLNPRF11.dgn	USER NAME = moolaman	DESIGNED - MAC	REVISED -	STATE OF ILLINOIS DEPARTMENT OF TRANSPORTATION	PLAN AND PROFILE BECK ROAD	SCALE: 1"=20'	SHEET 11 OF 19 SHEETS	STA. 60+00.00 TO STA. 66+00.00	F.A.U. RTE. 160	SECTION 14-00030-00-RS	COUNTY LAKE	TOTAL SHEETS 213	SHEET NO. 61
PLOT SCALE = 1:20	CHECKED - KLB	REVISOR -	CONTRACT NO. 61C68										
PLOT DATE = 1/25/2016	DATE -	REVISOR -	ILLINOIS FED. AID PROJECT										

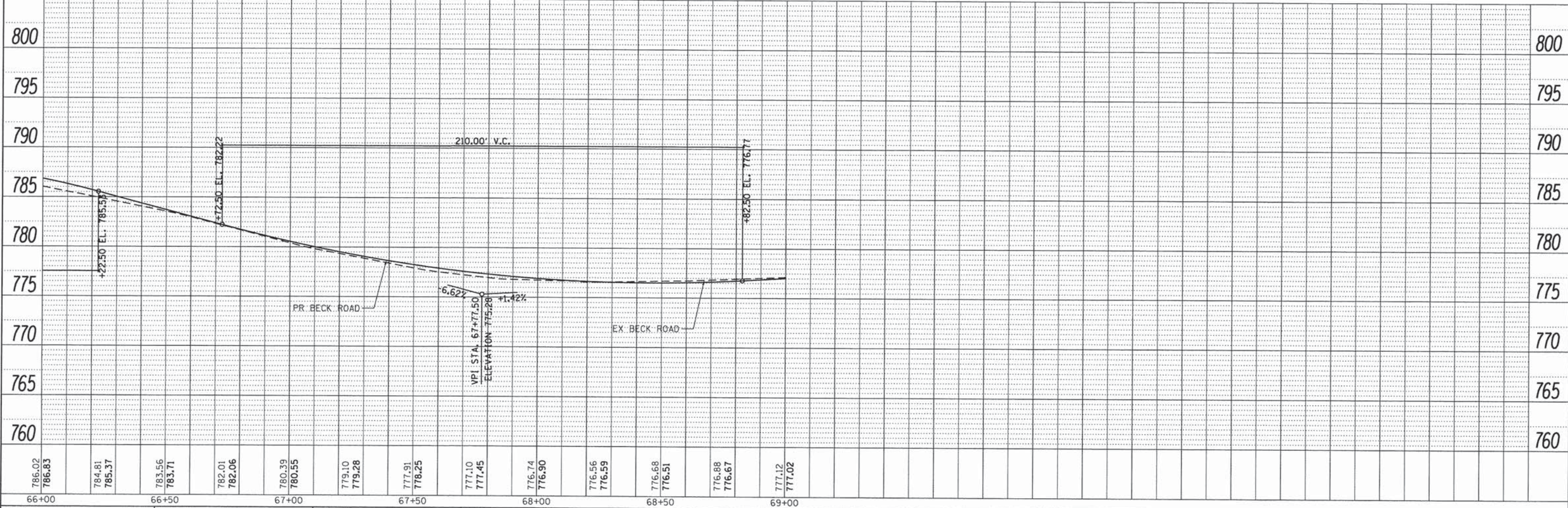
PLAN	SURVEYED	DATE	2/10/14
	PLOTTED	DATE	7/27/16
	NOTE BOOK	NO.	4477-025
	NO. OF WAY CHECKED	DATE	5/7/14
	CADD FILE NAME		4477-PLN-PRF12.dgn

PROFILE	SURVEYED	DATE	2/10/14
	GRADES CHECKED	DATE	7/27/16
	NOTE BOOK	NO.	4477-025
	STRUCTURE NOTATIONS CHKD	DATE	5/7/14

**GHA GEWALT HAMILTON ASSOCIATES, INC.**



**NOTES**  
1. FOR SIDEWALK ADA DETAILS SEE SHEET 138



FILE NAME = 4477-PLN-PRF12.dgn  
GHA\* 4477-025  
Default

USER NAME = mcoleman  
PLOT SCALE = 1:20  
PLOT DATE = 1/25/2016

DESIGNED - MAC  
DRAWN - ZCW  
CHECKED - KLB  
DATE -

REVISED -  
REVISED -  
REVISED -  
REVISED -

**STATE OF ILLINOIS  
DEPARTMENT OF TRANSPORTATION**

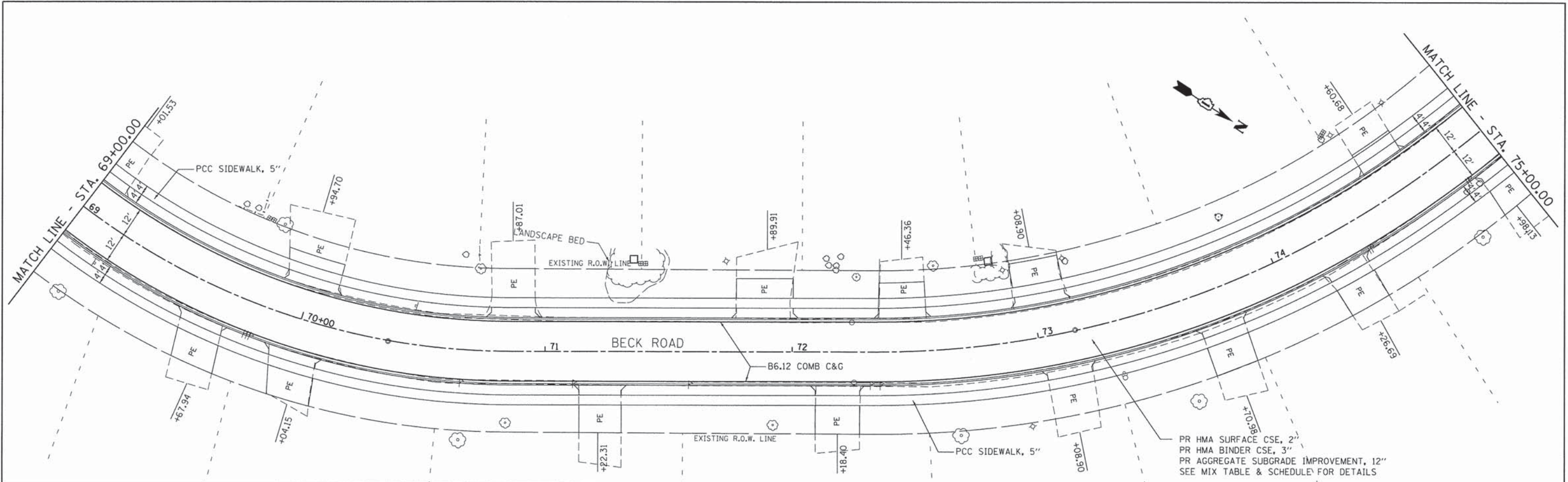
**PLAN AND PROFILE  
BECK ROAD**

SCALE: 1"=20' SHEET 12 OF 19 SHEETS STA. 66+00.00 TO STA. 69+00.00

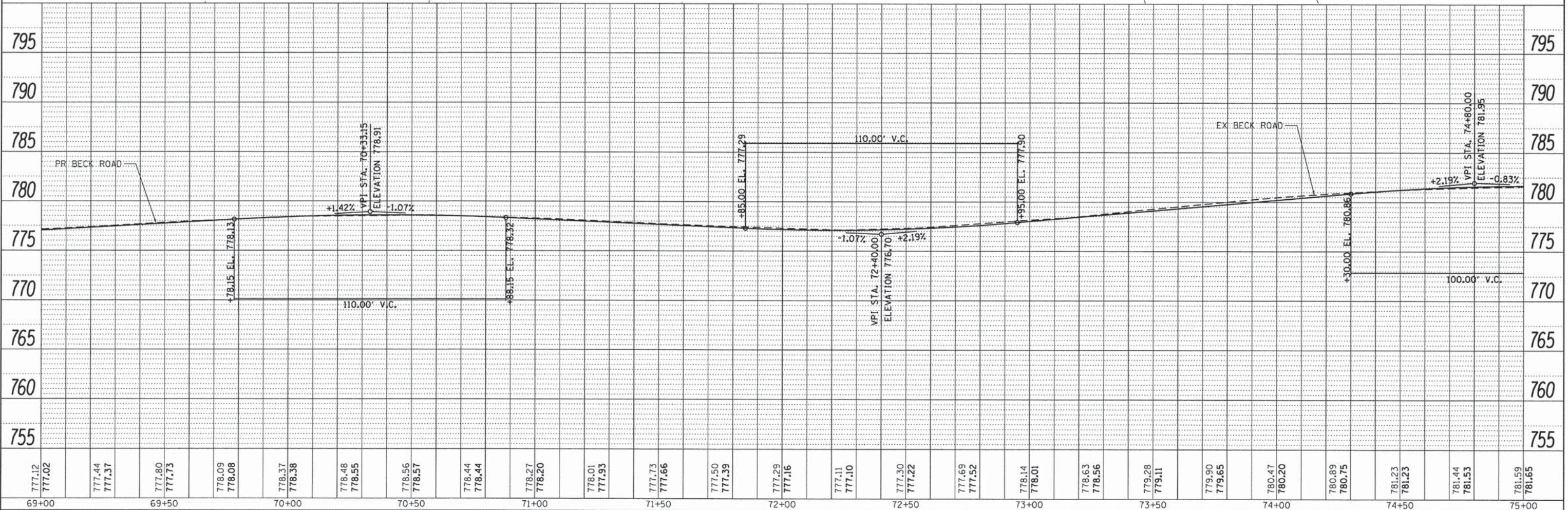
F.A.U. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
160	14-00030-00-RS	LAKE	213	62
				CONTRACT NO. 61C68
ILLINOIS FED. AID PROJECT				

PLAN	SURVEYED	DATE	2/10/14
	PLOTTED	BY	MAC
	RT. OF WAY CHECKED	REVISION	2/27/14
	NO. _____	DATE	5/7/14
	NO. _____	DATE	5/7/14
	NO. _____	DATE	5/7/14
	NO. _____	DATE	5/7/14
	NO. _____	DATE	5/7/14

PROFILE	SURVEYED	DATE	2/10/14
	PLOTTED	BY	MAC
	RT. OF WAY CHECKED	REVISION	2/27/14
	NO. _____	DATE	5/7/14
	NO. _____	DATE	5/7/14
	NO. _____	DATE	5/7/14
	NO. _____	DATE	5/7/14
	NO. _____	DATE	5/7/14



PR HMA SURFACE CSE, 2"  
 PR HMA BINDER CSE, 3"  
 PR AGGREGATE SUBGRADE IMPROVEMENT, 12"  
 SEE MIX TABLE & SCHEDULE FOR DETAILS



**GHA GEWALT HAMILTON ASSOCIATES, INC.**

FILE NAME =	4477-PLNPRF13.dgn
GHA#	4477.025
Default	

USER NAME =	mcolaman
PLDT SCALE =	1:20
PLDT DATE =	1/25/2016

DESIGNED -	MAC
DRAWN -	ZCW
CHECKED -	KLB
DATE -	

REVISED -	
REVISED -	
REVISED -	
REVISED -	

STATE OF ILLINOIS  
 DEPARTMENT OF TRANSPORTATION

PLAN AND PROFILE  
 BECK ROAD  
 SCALE: 1"=20' SHEET 13 OF 19 SHEETS STA. 69+00.00 TO STA. 75+00.00

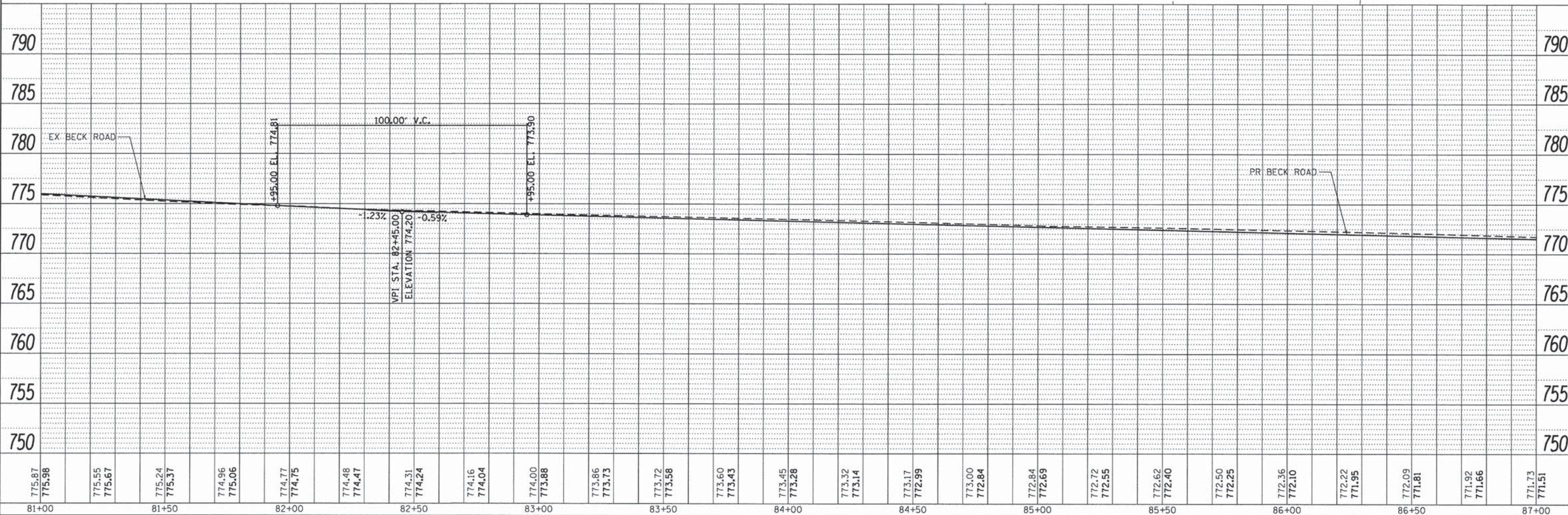
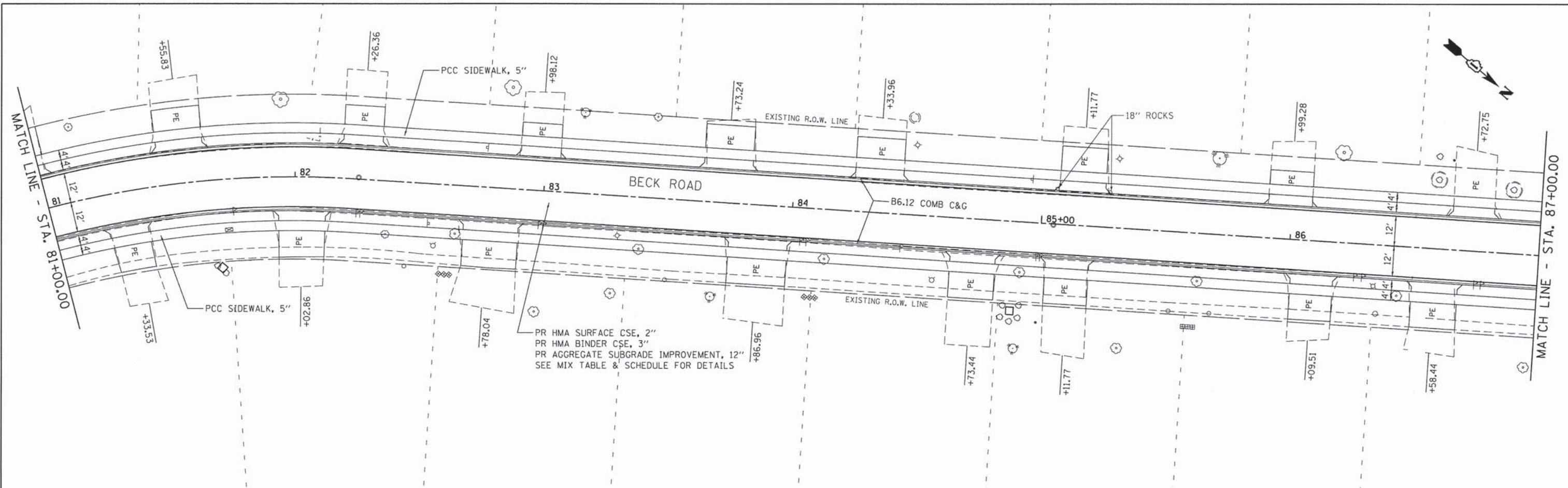
F.A.U. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
160	14-00030-00-RS	LAKE	213	63
CONTRACT NO. 61C68			ILLINOIS FED. AID PROJECT	





PLAN	DATE	BY
SURVEYED	2/10/14	
PLOTTED	2/25/2016	
NOTE BOOK	NO. 4477-PLNPRF15.DGN	
NO.		

PROFILE	DATE	BY
SURVEYED	2/10/14	
PLOTTED	2/25/2016	
NOTE BOOK	NO. 4477-PLNPRF15.DGN	
NO.		



775.87 775.98	775.55 775.67	775.24 775.37	774.96 775.06	774.77 774.75	774.48 774.47	774.31 774.24	774.16 774.04	774.00 773.88	773.86 773.73	773.72 773.58	773.60 773.43	773.45 773.28	773.32 773.14	773.17 772.99	773.00 772.84	772.84 772.69	772.72 772.55	772.62 772.40	772.50 772.25	772.36 772.10	772.22 771.95	772.09 771.81	771.92 771.66	771.73 771.51
81+00	81+50	82+00	82+50	83+00	83+50	84+00	84+50	85+00	85+50	86+00	86+50	87+00												

**GEWALT HAMILTON ASSOCIATES, INC.**

FILE NAME = 4477-PLNPRF15.dgn  
GHA# 4477.025  
Default

USER NAME = mcoleman  
PLOT SCALE = 1:20  
PLOT DATE = 1/25/2016

DESIGNED - MAC  
DRAWN - ZCW  
CHECKED - KLB  
DATE -

REVISED -  
REVISED -  
REVISED -  
REVISED -

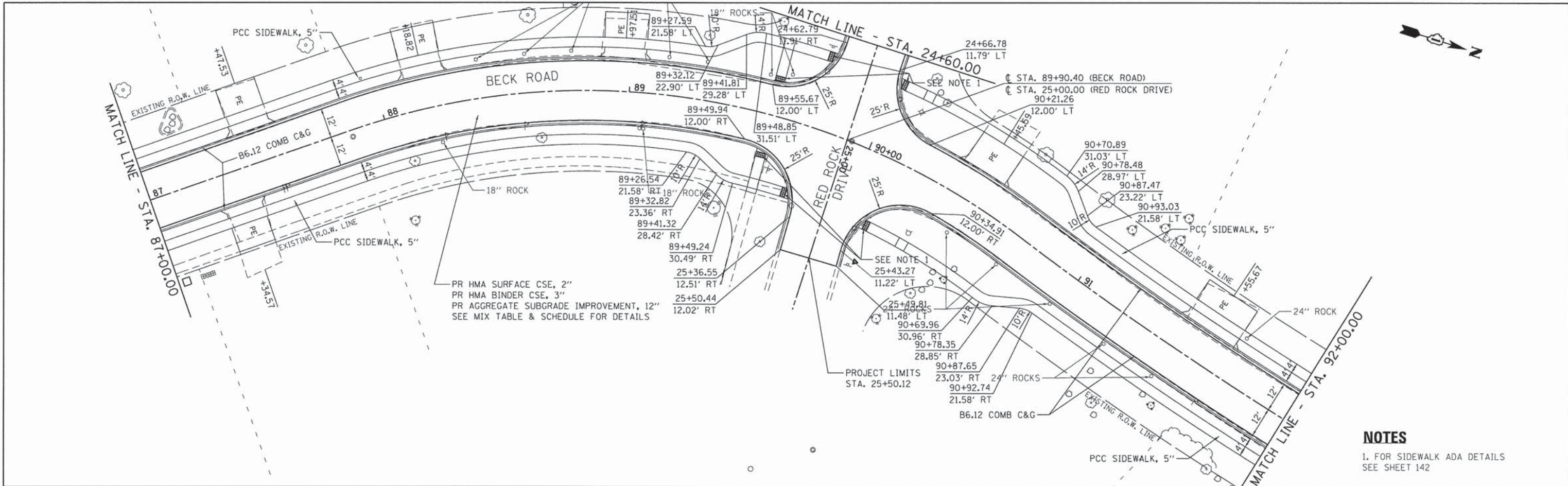
**STATE OF ILLINOIS DEPARTMENT OF TRANSPORTATION**

**PLAN AND PROFILE BECK ROAD**  
SCALE: 1"=20' SHEET 15 OF 19 SHEETS STA. 81+00.00 TO STA. 87+00.00

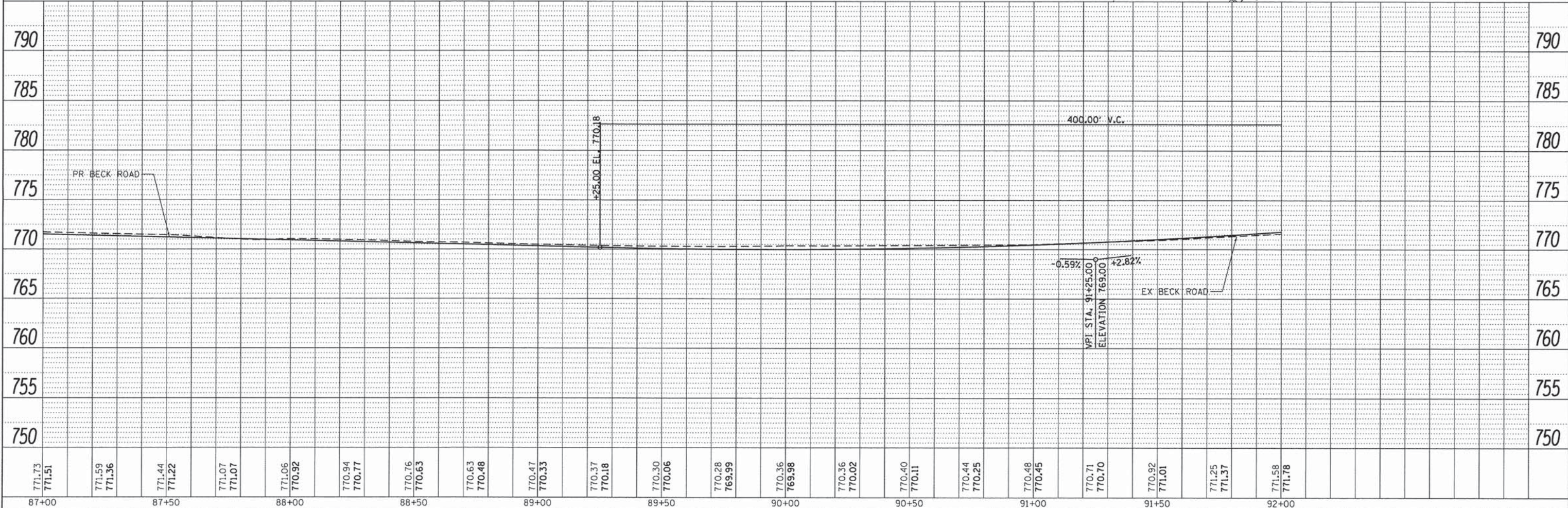
F.A.U. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
160	14-00030-00-RS	LAKE	213	65
CONTRACT NO. 61C68				
ILLINOIS FED. AID PROJECT				

PLAN	DATE	BY
SURVEYED	2/10/16	GHA
PLOTTED	2/25/2016	Information
NOTE BOOK	CHECKED	5/7/16
NO.	PL. OF WAY CHECKED	5/7/16
	CADD FILE NAME	4477.PLAN.PRF16.DGN

PROFILE	DATE	BY
SURVEYED	2/10/16	GHA
PLOTTED	2/25/2016	Information
NOTE BOOK	CHECKED	5/7/16
NO.	STRUCTURE NOTATIONS CHFD	5/7/16



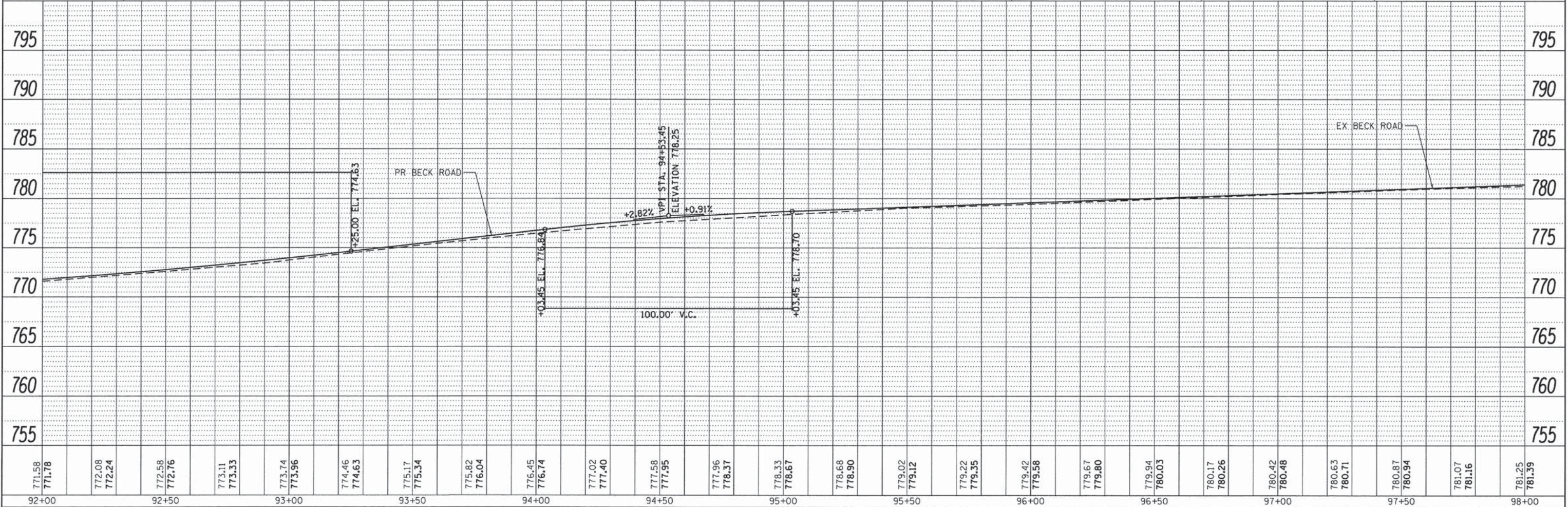
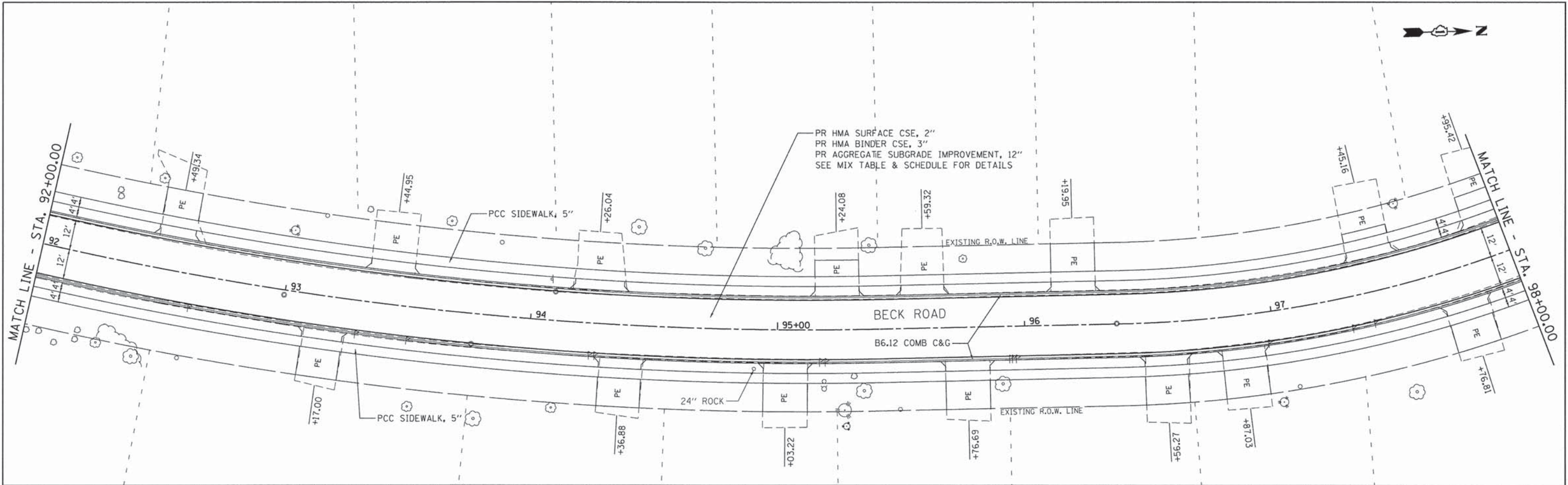
**NOTES**  
 1. FOR SIDEWALK ADA DETAILS SEE SHEET 142



FILE NAME = 4477-PLNPRF16.dgn	USER NAME = mcoleman	DESIGNED - MAC	REVISED -	<b>STATE OF ILLINOIS</b> <b>DEPARTMENT OF TRANSPORTATION</b>	<b>PLAN AND PROFILE</b> <b>BECK ROAD</b>	F.A.U. RTE. 160	SECTION 14-00030-00-RS	COUNTY LAKE	TOTAL SHEETS 213	SHEET NO. 66	
PLOT SCALE = 1:20	CHECKED - KLB	REVISOR -	SCALE: 1"=20'			SHEET 16 OF 19 SHEETS	STA. 87+00.00 TO STA. 92+00.00	CONTRACT NO. 61C68		ILLINOIS FED. AID PROJECT	
PLOT DATE = 1/25/2016	DATE -	REVISOR -									

PLAN	SURVEYED	DATE	2/10/14
	PLOTTED	DATE	2/10/14
	ALIGNED	DATE	2/10/14
	CHECKED	DATE	2/10/14
	NO.:	CADD FILE NAME	4477-PLNPRF17.dgn

PROF FILE	SURVEYED	DATE	2/10/14
	PLOTTED	DATE	2/10/14
	ALIGNED	DATE	2/10/14
	CHECKED	DATE	2/10/14
	NO.:	STRUCTURE NOTATION CHD	

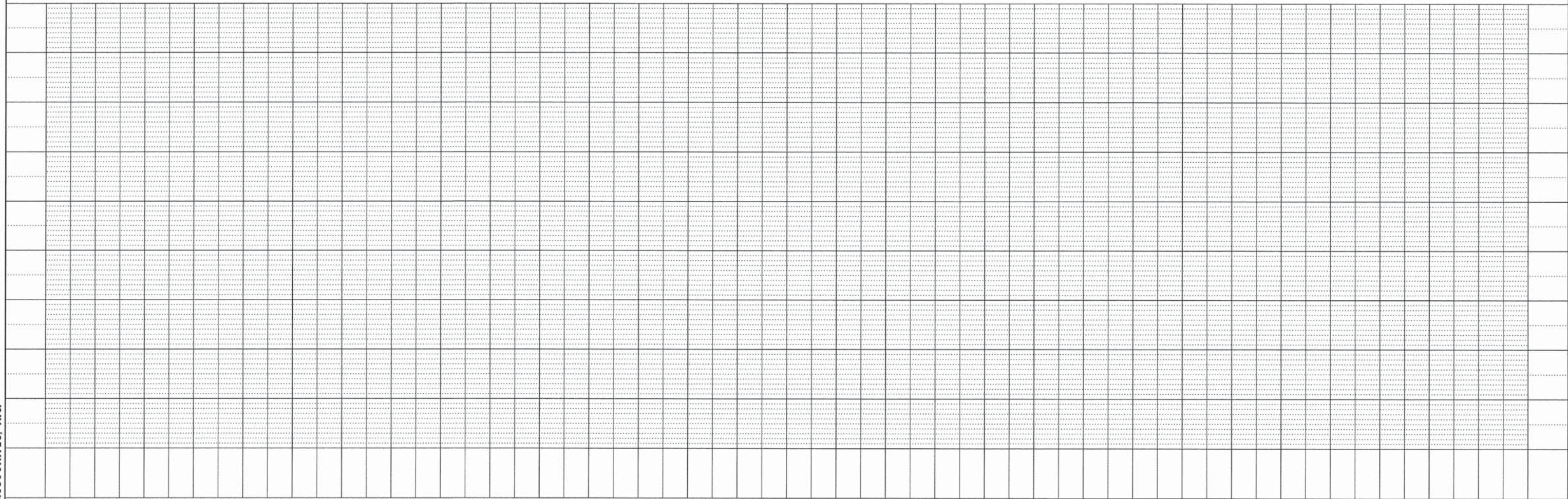
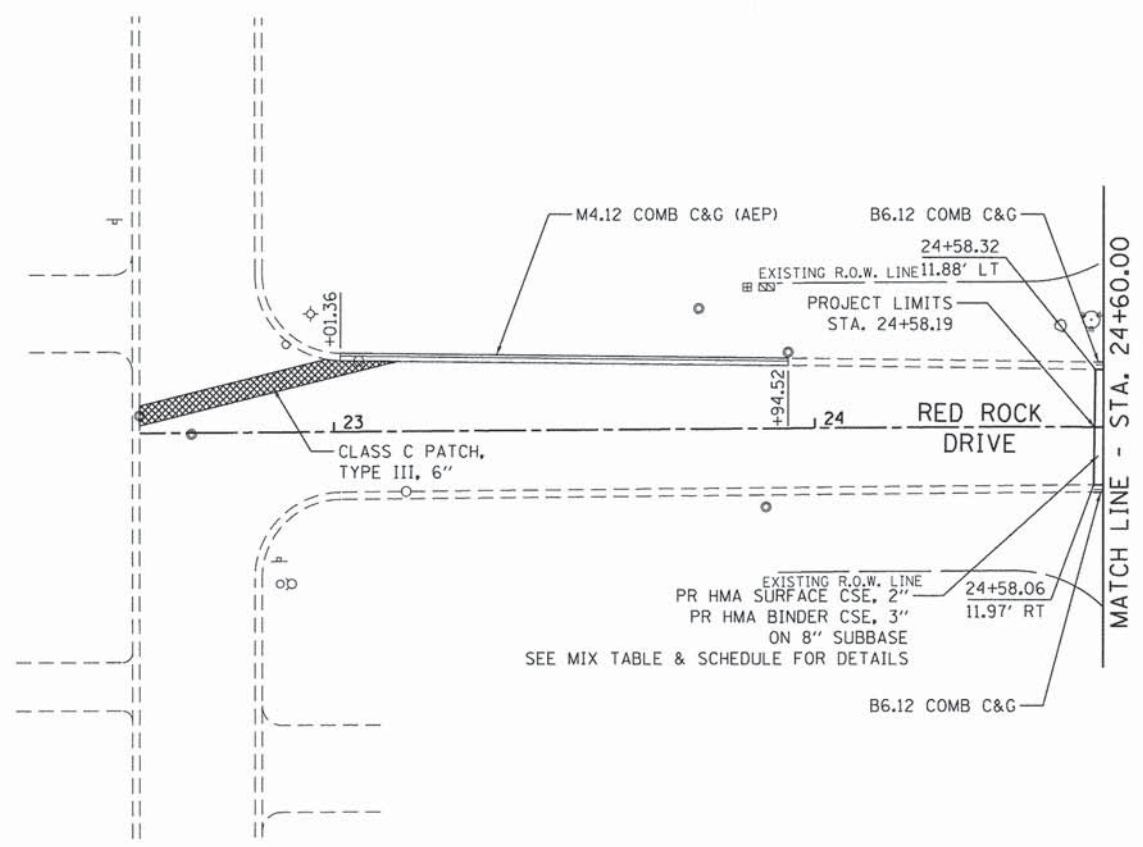


FILE NAME = 4477-PLNPRF17.dgn	USER NAME = mooleman	DESIGNED - MAC	REVISED -	<b>STATE OF ILLINOIS</b> <b>DEPARTMENT OF TRANSPORTATION</b>	<b>PLAN AND PROFILE</b> <b>BECK ROAD</b>	F.A.U. RTE. 160	SECTION 14-00030-00-RS	COUNTY LAKE	TOTAL SHEETS 213	SHEET NO. 67	
GHA* 4477.025	PLOT SCALE = 1:20	DRAWN - ZCW	REVISED -			SCALE: 1"=20'	SHEET 17 OF 19 SHEETS	STA. 92+00.00 TO STA. 98+00.00		CONTRACT NO. 61C68	
Default	PLOT DATE = 1/25/2016	CHECKED - KLB	REVISED -			[ILLINOIS] FED. AID PROJECT					
		DATE -	REVISED -								



PLAN	DATE	BY
SURVEYED	2/10/14	
PLOTTED	2/27/16	
NOTE BOOK	NO. OF WAY CHECKED	NO. OF WAY CHECKED
NO.	4477-PLNPRF20.dgn	4477-PLNPRF20.dgn

PROFILE	DATE	BY
SURVEYED	2/10/14	
PLOTTED	2/27/16	
NOTE BOOK	NO. OF WAY CHECKED	NO. OF WAY CHECKED
NO.	4477-PLNPRF20.dgn	4477-PLNPRF20.dgn



FILE NAME = 4477-PLNPRF20.dgn  
 GHA\* 4477.025  
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 PLOT SCALE = 1:20  
 PLOT DATE = 1/25/2016

DESIGNED - MAC  
 DRAWN - ZCW  
 CHECKED - KLB  
 DATE -

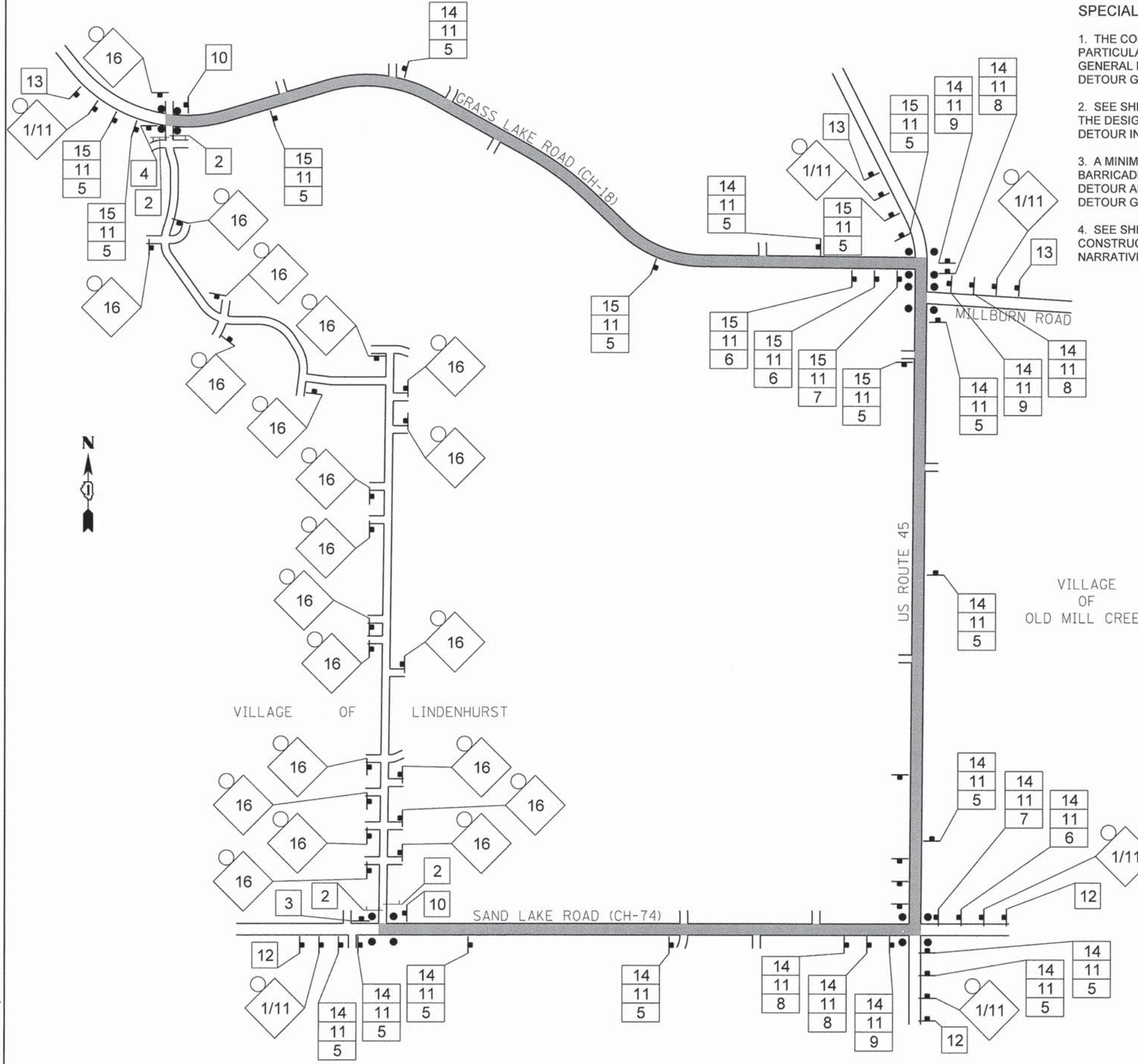
REVISED -  
 REVISED -  
 REVISED -  
 REVISED -

STATE OF ILLINOIS  
 DEPARTMENT OF TRANSPORTATION

PLAN AND PROFILE  
 RED ROCK DRIVE

SCALE: 1"=20'      SHEET 19 OF 19 SHEETS      STA. 22+59.53 TO STA. 24+60.00

F.A.U. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
160	14-00030-00-RS	LAKE	213	69
CONTRACT NO. 61C68			ILLINOIS FED. AID PROJECT	



- SPECIAL DETOUR NOTES:**
1. THE CONTRACTOR SHALL PAY PARTICULAR ATTENTION TO THE DETOUR GENERAL NOTES. SEE SHEET 72 FOR THE DETOUR GENERAL NOTES.
  2. SEE SHEET 71 FOR INFORMATION ON THE DESIGN AND LOCATION OF THE DETOUR INFORMATION SIGNS.
  3. A MINIMUM OF SEVEN (7) TYPE III BARRICADES WILL BE NEEDED FOR THIS DETOUR AND ROAD CLOSURE. SEE DETOUR GENERAL NOTE 10.
  4. SEE SHEET 75 FOR THE SUGGESTED CONSTRUCTION PROCEDURES NARRATIVE.

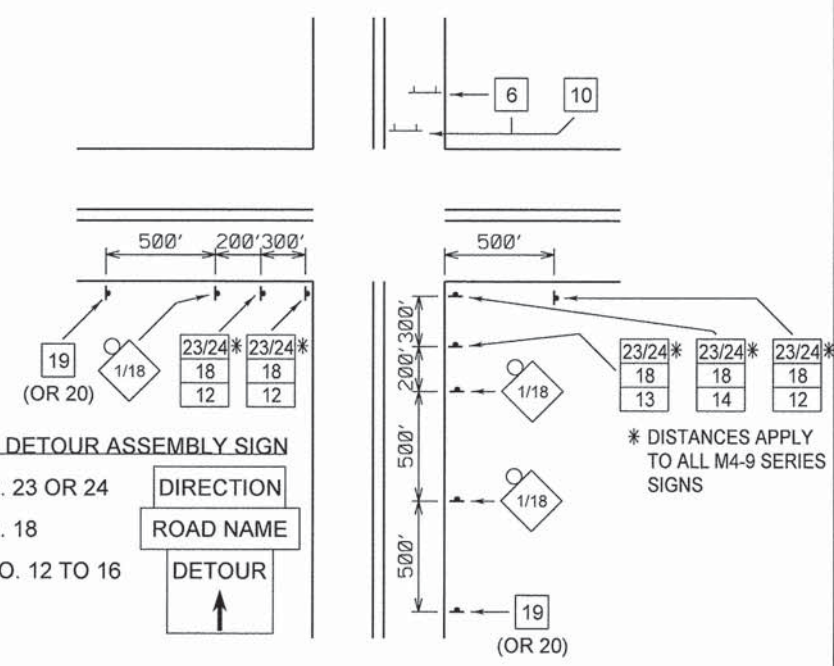
### LEGEND

- SIGNALIZED INTERSECTION
- 48"X48" CONSTRUCTION WARNING SIGN, WITH AMBER FLASHING LIGHT NUMBER DENOTES TYPE
- M4-9 SERIES DETOUR SIGN WITH ROAD NAME AND DIRECTION PLATES, NUMBER DENOTES TYPE
- OTHER DETOUR SIGNS, NUMBER DENOTES TYPE
- TYPE III BARRICADE WITH AMBER FLASHING LIGHTS
- DETOUR ROUTE

THE DURATION OF THE DETOUR SHALL NOT EXCEED 110 WORKING DAYS.

THE PENALTY FOR EXCEEDING THE DURATION SHALL BE \$2,000 PER WORKING DAY

#### TYPICAL INTERSECTION AT POINT OF DETOUR



**GHA** GEWALT HAMILTON ASSOCIATES, INC.

FILE NAME = 4477-SIGN.dgn	USER NAME = mcolem	DESIGNED - JRD	REVISED -
GHA* 4477.025	PLOT SCALE = 1:20	DRAWN - ZCW	REVISED -
4477-Detour1of4	PLOT DATE = 1/25/2016	CHECKED - KLB	REVISED -
		DATE -	REVISED -

**STATE OF ILLINOIS  
DEPARTMENT OF TRANSPORTATION**

**DETOUR PLAN  
BECK ROAD**

SCALE: N/A    SHEET 1 OF 3 SHEETS    STA. TO STA.

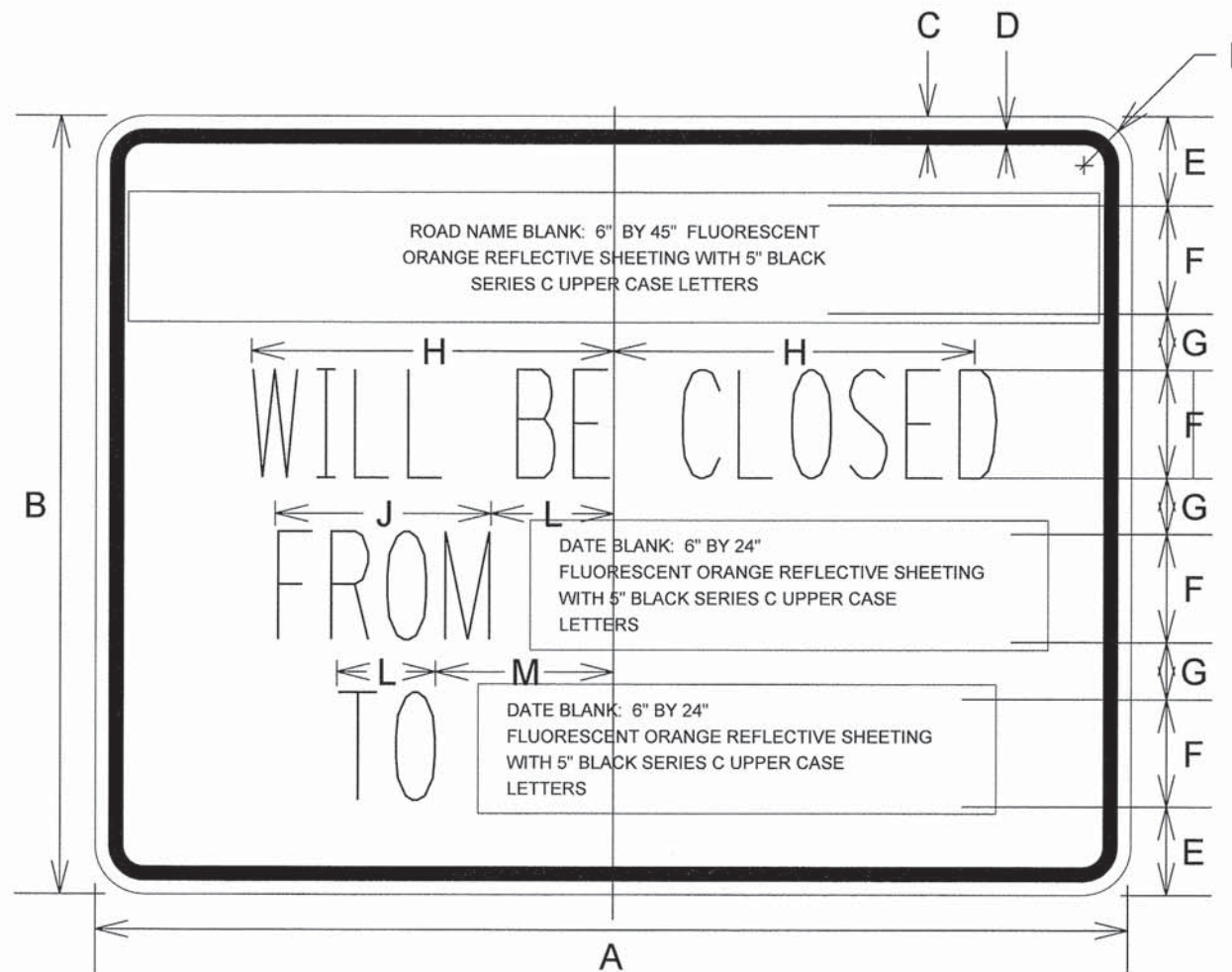
F.A.U. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
160	14-00030-00-RS	LAKE	213	70
CONTRACT NO. 61C68				
ILLINOIS FED. AID PROJECT				

NUMBER OF SIGNS   6  



DATES SHOWN ARE FOR EXAMPLE ONLY

NUMBER OF SIGNS       



**DIMENSIONS (ENGLISH)**

A	48"
B	36"
C	5/8"
D	7/8"
E	4 1/8"
F	5"
G	2 5/8"
H	9 3/4"
J	12"
K	5 1/2"
L	5 1/2"
M	8 1/2"
N	2 1/4"

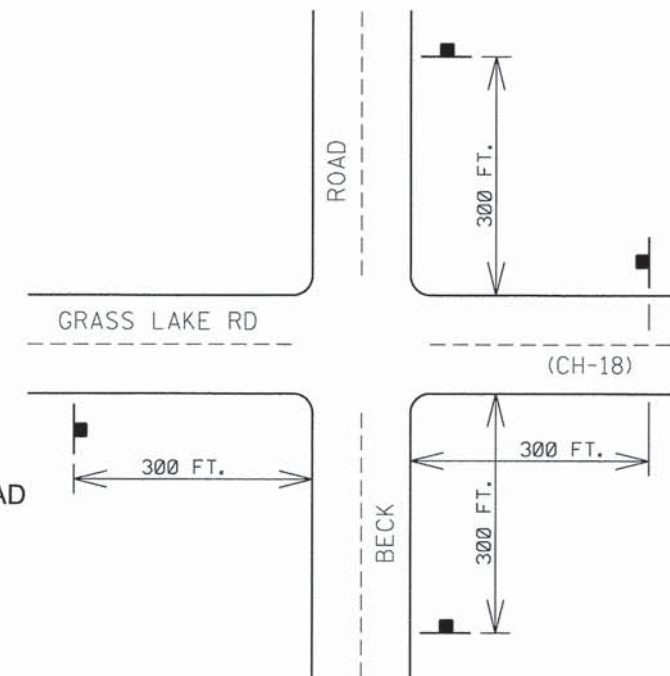
NOTE: SIGN SHEETING SHALL BE FLUORESCENT ORANGE WITH 5 INCH (125 mm) BLACK SERIES C LETTERS

**LOCATIONS OF PRE-DETOUR INFORMATION SIGNS BY INTERSECTION**

- E.B. GRASS LAKE ROAD APPROACHING BECK ROAD
- W.B. GRASS LAKE ROAD APPROACHING BECK ROAD
- E.B. SAND LAKE ROAD APPROACHING BECK ROAD
- W.B. SAND LAKE ROAD APPROACHING BECK ROAD
- N.B. BECK ROAD NORTH OF SAND LAKE ROAD
- S.B. BECK ROAD SOUTH OF GRASS LAKE ROAD

NOTE:  
THESE SIGNS SHALL BE INSTALLED 7-10 CALENDAR DAYS PRIOR TO THE DETOUR AND ROAD CLOSURE. THE SIGNS SHALL BE REMOVED THE DAY THE DETOUR BEGINS.

SIGN LAYOUT FOR PRE-DETOUR INFORMATION SIGNS AT THE INTERSECTION OF GRASS LAKE ROAD AND BECK ROAD.  
SIGNS AT GRASS LAKE ROAD AND BECK ROAD WILL BE INSTALLED IN A SIMILAR FASHION



# SCHEDULE OF QUANTITIES

SIGN NO.	SIGN	SIGN TYPE	QUANTITY
①		W20-2 (O) 48	6
②		R11-2 4830	4
③		M4-10R (O) 4818	1
④		M4-10L (O) 4818	1
⑤		M4-9 (O) 3021	17
⑥		M4-9R (O) 3021	3
⑦		M4-9R (O) 3021	2
⑧		M4-9L (O) 3021	4
⑨		M4-9L (O) 3021	3
⑩		M4-8a (O) 2418	2
⑪		SPECIAL (O) 9 VARIABLE	35
⑫		SPECIAL (O) 6030	3
⑬		SPECIAL (O) 6030	3
⑭		M3-1 (O) 2412	20
⑮		M3-3 (O) 2412	9
⑯		W20-1103 (O) 48	21

## DETOUR GENERAL NOTES:

- ALL SIGNING SHALL BE IN ACCORDANCE WITH THE APPLICABLE PROVISIONS OF THE STATE OF ILLINOIS "STANDARD SPECIFICATIONS FOR ROAD AND BRIDGE CONSTRUCTION ADOPTED APRIL, 1, 2016", "THE QUALITY STANDARD FOR WORK ZONE TRAFFIC CONTROL DEVICES ADOPTED 2010, "THE DETAILS IN THESE PLANS, THE LATEST EDITION OF THE STATE OF ILLINOIS "MANUAL OF UNIFORM TRAFFIC CONTROL DEVICES", THE SPECIAL PROVISIONS FOR TRAFFIC CONTROL AND PROTECTION (LC-T-SECTION 700) AND THE L.C.D.O.T. DETOUR PROCEDURES AND GUIDELINES.
- THE ENGINEER SHALL BE NOTIFIED IN WRITING AT LEAST THREE WEEKS PRIOR TO THE DAY THE DETOUR IS TO BE IN EFFECT. THE ENGINEER SHALL DETERMINE THE HOUR OF CLOSURE. THE ENGINEER WILL CONTACT THE APPROPRIATE LOCAL AGENCIES AND INTERESTED PARTIES.
- IF DEEMED NECESSARY BY THE ENGINEER A PRE-CONSTRUCTION MEETING WITH THE CONTRACTOR SHALL BE HELD AT LEAST TWO WEEKS PRIOR TO THE DAY THE DETOUR IS TO BE IN EFFECT.
- THE CONTRACTOR SHALL SUPPLY TO THE ENGINEER THE NAMES AND TELEPHONE NUMBERS OF HIS REPRESENTATIVES ON THE CONSTRUCTION SITE AND HIS REPRESENTATIVE RESPONSIBLE FOR THE DETOUR SIGNING PRIOR TO THE START OF THE WORK. THE LAKE COUNTY DIVISION OF TRANSPORTATION REPRESENTATIVE FOR THIS DETOUR IS:  
JOHN P. SAUTER  
LAKE COUNTY DIVISION OF TRANSPORTATION  
TRAFFIC MANAGEMENT CENTER/TRAFFIC ENGINEERING  
600 W. WINCHESTER ROAD  
LIBERTYVILLE, ILLINOIS 60048  
(847) 377-7000
- IF REQUESTED BY THE CONTRACTOR IN WRITING AT LEAST THREE WEEKS PRIOR TO THE DAY THE DETOUR IS TO BE IN EFFECT THE ENGINEER WILL FIELD LOCATE THE POSITIONS OF ANY SIGNS.
- LONGITUDINAL DIMENSIONS SHOWN ON THESE PLANS MAY BE ADJUSTED TO FIT FIELD CONDITIONS, WITH THE APPROVAL OF THE ENGINEER.
- THE ROAD SHALL NOT BE CLOSED UNTIL ALL SIGNING IS ERECTED IN ACCORDANCE WITH THE DETOUR PLAN AND INSPECTED AND APPROVED BY THE ENGINEER.
- THE CONTRACTOR SHALL BE RESPONSIBLE FOR ENSURING THAT ALL BARRICADES, SIGNS, LIGHTS, AND OTHER DEVICES INSTALLED BY HIM ARE IN PLACE AND OPERATING 24 HOURS EACH DAY INCLUDING SUNDAYS AND HOLIDAYS DURING THE TIME THE DETOUR IS IN EFFECT.
- THE TRAFFIC CONTROL SHOWN ON THE DETOUR PLAN IS THE MINIMUM NECESSARY TO ENSURE THIS ROAD CLOSURE. THE CONTRACTOR SHALL MAKE ALL CHANGES IN TRAFFIC CONTROL THAT IS DEEMED NECESSARY BY THE ENGINEER. ADDITIONS AND DELETIONS OF TRAFFIC CONTROL FOR THIS DETOUR SHALL BE CONSIDERED INCLUDED IN THE COST OF THE PAY ITEM "TRAFFIC CONTROL AND PROTECTION".
- ALL EXISTING SIGNING THAT IS NOT APPLICABLE WHILE THE DETOUR IS IN EFFECT SHALL BE COMPLETELY COVERED BY THE CONTRACTOR, IN A MANNER APPROVED BY THE ENGINEER.
- ALL DETOUR SIGNING SHALL BE POST MOUNTED IF THE ROAD CLOSURE IS TO EXCEED FOUR (4) CALENDAR DAYS.
- ALL DETOUR SIGNING EXCEPT REGULATORY SIGNS SHALL HAVE BLACK LEGENDS ON FLUORESCENT ORANGE SHEETING AND STANDARD BLACK BORDERS. THE FLUORESCENT ORANGE REFLECTIVE SHEETING SHALL MEET THE REQUIREMENTS OF SECTION 1091 OF THE STANDARD SPECIFICATIONS. ALL DETOUR SIGNING SHALL BE NEW OR LIKE NEW CONDITION. THE ENGINEER SHALL BE THE SOLE JUDGE OF THE CONDITION OF THE SIGNS.
- THE SIZES OF ALL SIGNS NOT SPECIFIED IN THESE PLANS SHALL BE AS REQUIRED BY THE ILLINOIS MANUAL ON UNIFORM TRAFFIC CONTROL DEVICES.
- AS A MINIMUM, ALL AMBER FLASHING LIGHTS THAT ARE REQUIRED FOR THIS DETOUR SHALL MEET THE REQUIREMENTS FOR TYPE A-LOW INTENSITY FLASHING LIGHTS IN ARTICLE 1106.02 OF THE STANDARD SPECIFICATIONS. ALL LIGHTS SHALL OPERATE DURING THE HOURS OF DARKNESS. ONLY LIGHTS THAT HAVE BEEN APPROVED BY THE ILLINOIS DEPARTMENT OF TRANSPORTATION SHALL BE USED.
- WHEN REQUIRED THE MINIMUM DIMENSIONS OF THE ORANGE WARNING FLAGS SHOWN IN THESE PLANS ARE 18"X 18".
- ALL BARRICADES SHALL HAVE REFLECTORIZED STRIPING ON BOTH SIDES OF THE BARRICADES. THE TYPE III BARRICADES USED AT THE POINT OF CLOSURE TO THRU TRAFFIC SHALL NOT EXCEED 8 FEET IN WIDTH EACH, FOR A SINGLE APPROACH LANE.
- THE "ROAD CLOSED" (R11-2), THE "ROAD CLOSED XX MILES AHEAD LOCAL TRAFFIC ONLY" (R11-3) AND THE "ROAD CLOSED TO THRU TRAFFIC" (R11-4) SIGNS SHALL BE MOUNTED ABOVE THE TOP OF THE BARRICADE. ALL TYPE III BARRICADES SHALL HAVE TWO (2) AMBER TYPE A-LOW INTENSITY FLASHING LIGHTS SPACED NEAR THE CENTERLINE OF THE SUPPORTS.
- THE ROAD NAME SIGN SHALL HAVE A BLACK LEGEND ON THE FLUORESCENT ORANGE REFLECTIVE SHEETING. THE SIGN BLANK SHALL BE A 9" X VARIABLE OR A 12" X VARIABLE WITH DESIGN SERIES C LETTERS. THE CAPITAL LETTERS SHALL BE 6" WITH 4.5" LOWER CASE.
- DURING NON-WORKING HOURS AT THE POINT OF ROAD CLOSURE TO ALL TRAFFIC THE CONTRACTOR SHALL PROVIDE A MEANS TO RESTRAIN THE BARRICADES FROM EASY MOVEMENT BY VANDALS. THE CHOSEN METHOD SHALL BE APPROVED BY THE ENGINEER.
- CONSTRUCTION EQUIPMENT SHALL NOT BE PARKED IMMEDIATELY BEHIND THE TYPE III BARRICADES DURING NON-WORKING HOURS. IN ANY EVENT ARTICLE 701.04 OF THE STANDARD SPECIFICATIONS SHALL APPLY.
- THE CONTRACTOR SHALL BE RESPONSIBLE FOR MAINTAINING THE VISIBILITY OF ALL DETOUR AND CONSTRUCTION SIGNING, INCLUDING BRUSHING BACK VEGETATION IF DEEMED NECESSARY BY THE ENGINEER.
- THE FOLLOWING ILLINOIS DEPARTMENT OF TRANSPORTATION STANDARD IS APPLICABLE FOR THIS WORK:  
STANDARD 701901
- THE ENGINEER SHALL BE NOTIFIED AT LEAST TWO (2) HOURS BEFORE THE ROAD IS TO BE OPENED TO TRAFFIC. THE ENGINEER WILL CONTACT THE APPROPRIATE LOCAL AGENCIES AND INTERESTED PARTIES.



SUGGESTED CONSTRUCTION PROCEDURES NARRATIVE

Pre-Stage

1. Erect all detour informational signs a minimum of 10 days prior to the implementation of the detour and road closure. The signs shall be removed the day the detour begins.
2. Erect and implement all detour signage with access available to local traffic only. All conflicting and non-essential signs shall be removed or bagged the day the detour begins.
3. Install all erosion and sediment controls.
4. Sawcut and remove existing pavement and/or curb and gutter to install all storm sewer manholes, catch basins and inlets, provide temporary access with temporary aggregate as required.

Stage 1 (Daytime Detour Only)

1. Erect portable detour signage on Beck Road, Rolling Ridge Lane, Brook Lane, Sprucewood Lane, Springhill Lane and Lakeshore Drive, as well as all side street Type III barricades as required.
2. Remove remaining existing curb and gutter, driveway aprons and sidewalks, provide temporary access as required.
3. Install combination concrete curb and gutter and pipe drains. (One side of roadway only to allow on-street parking)
4. Install concrete sidewalks. (One side of roadway only to allow on-street parking).
5. Install all driveway pavement.
6. Remove remaining existing pavement with aggregate base.
7. Proof roll the existing sub-grade and complete aggregate subgrade improvements as directed by the engineer.
8. Install geotechnical fabric and aggregate base course.
9. Install asphalt binder course.

Stage 2 (Daytime Detour Only)

1. Erect portable detour signage on Lakeshore Drive, Carriage Lane, Beck Road, High Point Drive, as well as all side street Type III barricades as required.
2. Remove remaining existing curb and gutter, driveway aprons and sidewalks, provide temporary access as required.
3. Install combination concrete curb and gutter and pipe drains. (One side of roadway only to allow on-street parking).
4. Install concrete sidewalks. (One side of roadway only to allow on-street parking)
5. Install all driveway pavement.
6. Remove remaining existing pavement with aggregate base.
7. Proof roll the existing sub-grade and complete aggregate subgrade improvements as directed by the engineer.
8. Install geotechnical fabric and aggregate base course.
9. Install asphalt binder course.

Stage 3 (Daytime Detour Only)

1. Erect portable detour signage on Beck Road, High Point Drive, Survey Lane, Northgate Road, Red Rock Drive, as well as all side street Type III barricades as required.
2. Remove remaining existing curb and gutter, driveway aprons and sidewalks, provide temporary access as required.
3. Install combination concrete curb and gutter and pipe drains. (One side of roadway only to allow on-street parking).
4. Install concrete sidewalks. (One side of roadway only to allow on-street parking).
5. Install all driveway pavement.
6. Remove remaining existing pavement with aggregate base.
7. Proof roll the existing sub-grade and complete aggregate subgrade improvements as directed by the engineer.
8. Install geotechnical fabric and aggregate base course.
9. Install asphalt binder course.

Stage 4 (Daytime Detour Only)

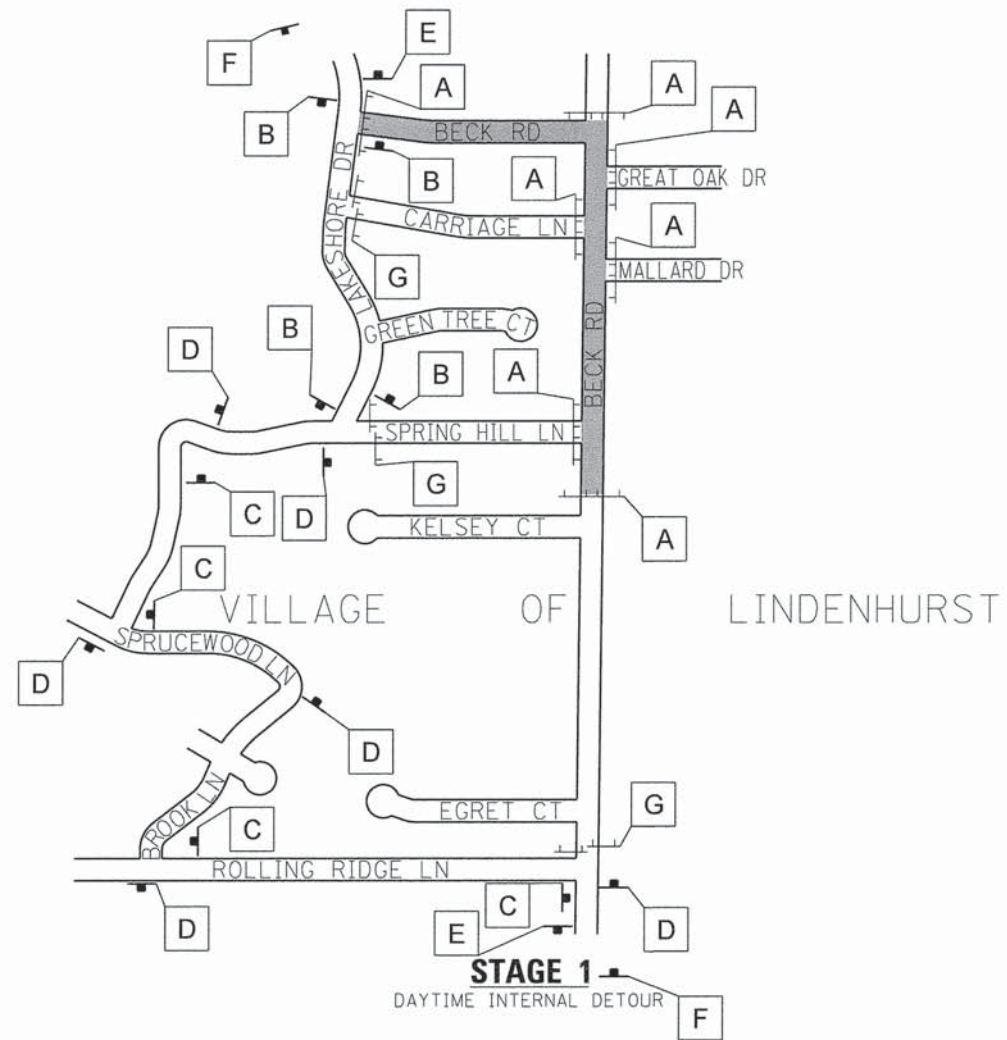
1. Erect portable detour signage on Beck Road, Red Rock Drive, Northgate Road, as well as all side street Type III barricades as required.
2. Remove remaining existing curb and gutter, driveway aprons and sidewalks, provide temporary access as required.
3. Install combination concrete curb and gutter and pipe drains. (One side of roadway only to allow on-street parking).
4. Install concrete sidewalks. (One side of roadway only to allow on-street parking).
5. Install all driveway pavement.
6. Remove remaining existing pavement with aggregate base.
7. Proof roll the existing sub-grade and complete aggregate subgrade improvements as directed by the engineer.
8. Install geotechnical fabric and aggregate base course.
9. Install asphalt binder course.

Stage 5

1. Mill existing pavement from Kelsey Court to Sand Lake Road.
2. Remove all perimeter erosion barrier.
3. Topsoil and sod all parkways and disturbed areas.
4. Install asphalt surface course.
5. Install all pavement markings and signage.
6. Remove all detour and traffic control signing.

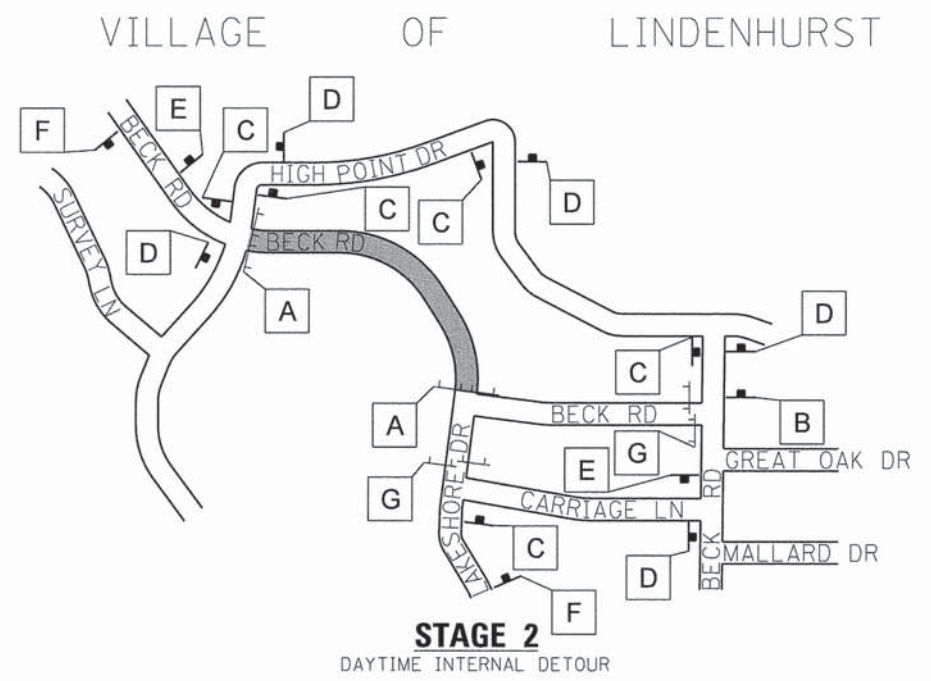


FILE NAME = 4477-SIGN.dgn GHA* 4477.025 4477-Detour4of4	USER NAME = mcolemn	DESIGNED - JRD	REVISED -	<b>STATE OF ILLINOIS DEPARTMENT OF TRANSPORTATION</b>	<b>SUGGESTED CONSTRUCTION PROCEDURES NARRATIVE BECK ROAD</b>		F.A.U. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
	PLOT SCALE = 1:20	DRAWN - ZCW	REVISED -		160	14-00030-00-RS	LAKE	213	73		
	PLOT DATE = 1/25/2016	CHECKED - KLB	REVISED -		SCALE: N/A    SHEET 1 OF 3 SHEETS    STA.    TO STA.		CONTRACT NO. 61C68		ILLINOIS FED. AID PROJECT		
		DATE -	REVISED -								



### LEGEND

- OTHER DETOUR SIGNS, NUMBER DENOTES TYPE
- TYPE III BARRICADE WITH AMBER FLASHING LIGHTS
- STAGED CONSTRUCTION AREAS



### STAGE 1 SCHEDULE OF QUANTITIES




SIGN NO.	SIGN	SIGN TYPE	QUANTITY	SIGN NO.	SIGN	SIGN TYPE	QUANTITY
(A)		R11-2 4830	7	(F)		W20-3 (O) 36	3
(B)		M4-9 (O) 3021	4	(G)		R11-4 6030	2
(C)		M4-9R (O) 3021	4				
(D)		M4-9L (O) 3021	5				
(E)		M4-8a (O) 2418	2				

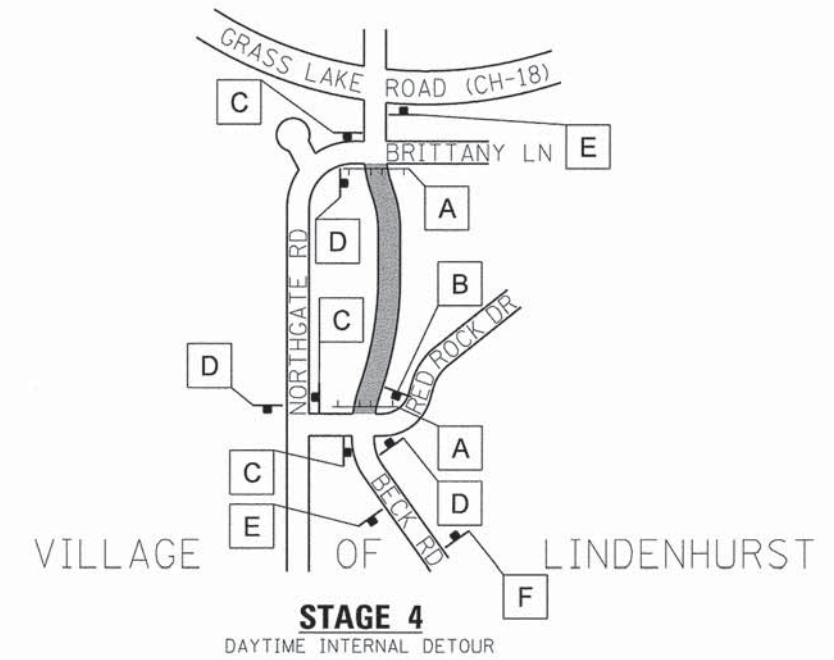
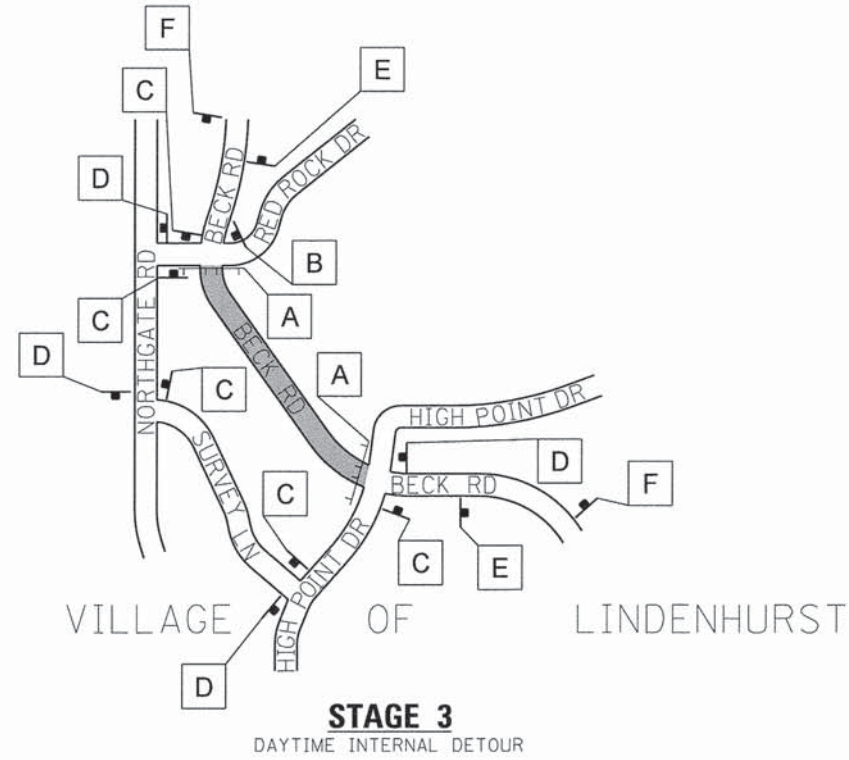
### STAGE 2 SCHEDULE OF QUANTITIES

SIGN NO.	SIGN	SIGN TYPE	QUANTITY	SIGN NO.	SIGN	SIGN TYPE	QUANTITY
(A)		R11-2 4830	2	(F)		W20-3 (O) 36	2
(B)		M4-9 (O) 3021	1	(G)		R11-4 6030	2
(C)		M4-9R (O) 3021	5				
(D)		M4-9L (O) 3021	5				
(E)		M4-8a (O) 2418	2				

GHA GEVAULT HAMILTON ASSOCIATES, INC.

### LEGEND

-  OTHER DETOUR SIGNS, NUMBER DENOTES TYPE
-  TYPE III BARRICADE WITH AMBER FLASHING LIGHTS
-  STAGED CONSTRUCTION AREAS

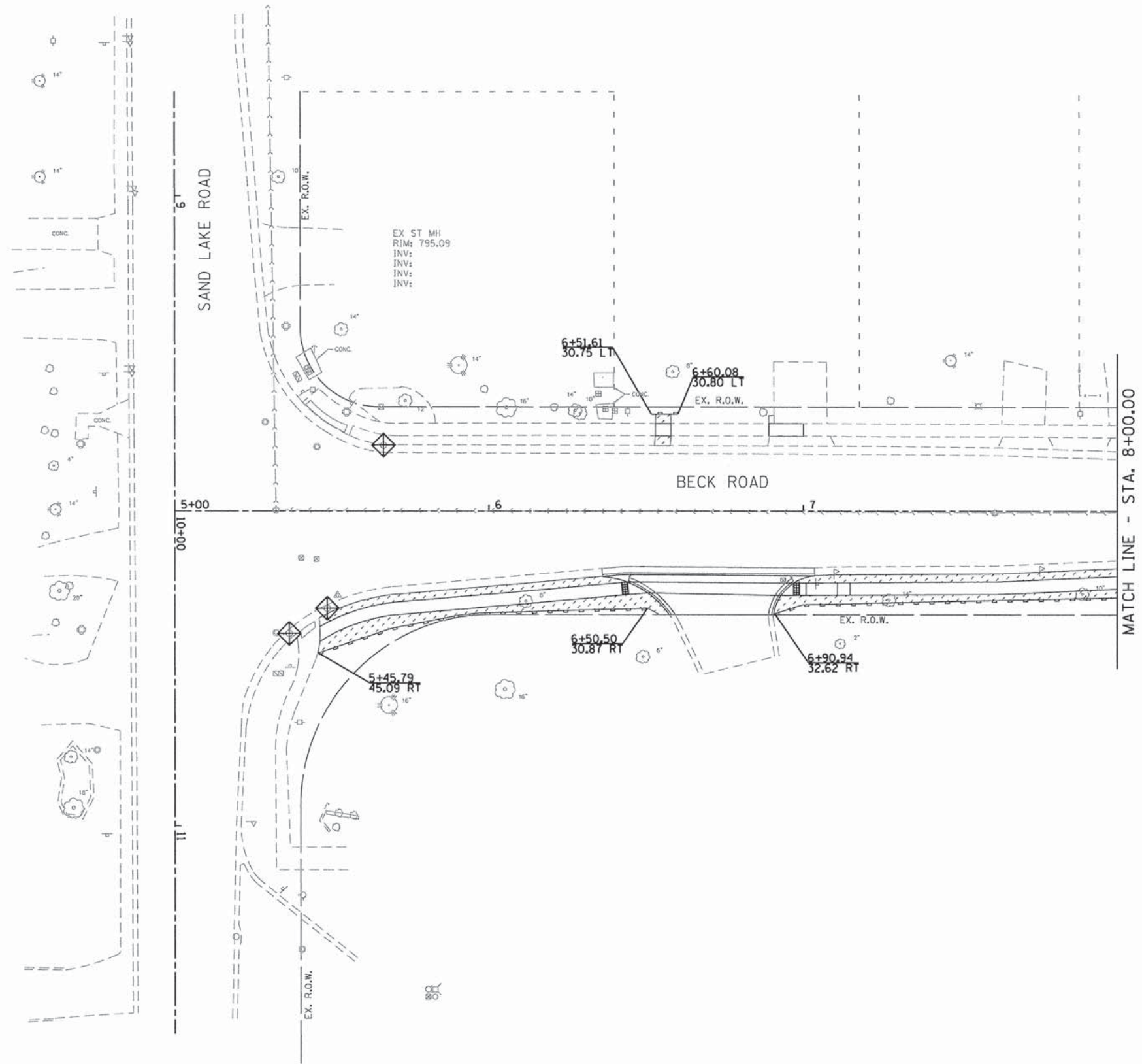


### STAGE 3 SCHEDULE OF QUANTITIES




SIGN NO.	SIGN	SIGN TYPE	QUANTITY	SIGN NO.	SIGN	SIGN TYPE	QUANTITY
(A)		R11-2 4830	2	(F)		W20-3 (O) 36	-
(B)		M4-9 (O) 3021	1	(G)		R11-4 6030	2
(C)		M4-9R (O) 3021	5				
(D)		M4-9L (O) 3021	4				
(E)		M4-8a (O) 2418	2				

### STAGE 4 SCHEDULE OF QUANTITIES

SIGN NO.	SIGN	SIGN TYPE	QUANTITY	SIGN NO.	SIGN	SIGN TYPE	QUANTITY
(A)		R11-2 4830	2	(F)		W20-3 (O) 36	-
(B)		M4-9 (O) 3021	1	(G)		R11-4 6030	1
(C)		M4-9R (O) 3021	3				
(D)		M4-9L (O) 3021	3				
(E)		M4-8a (O) 2418	2				

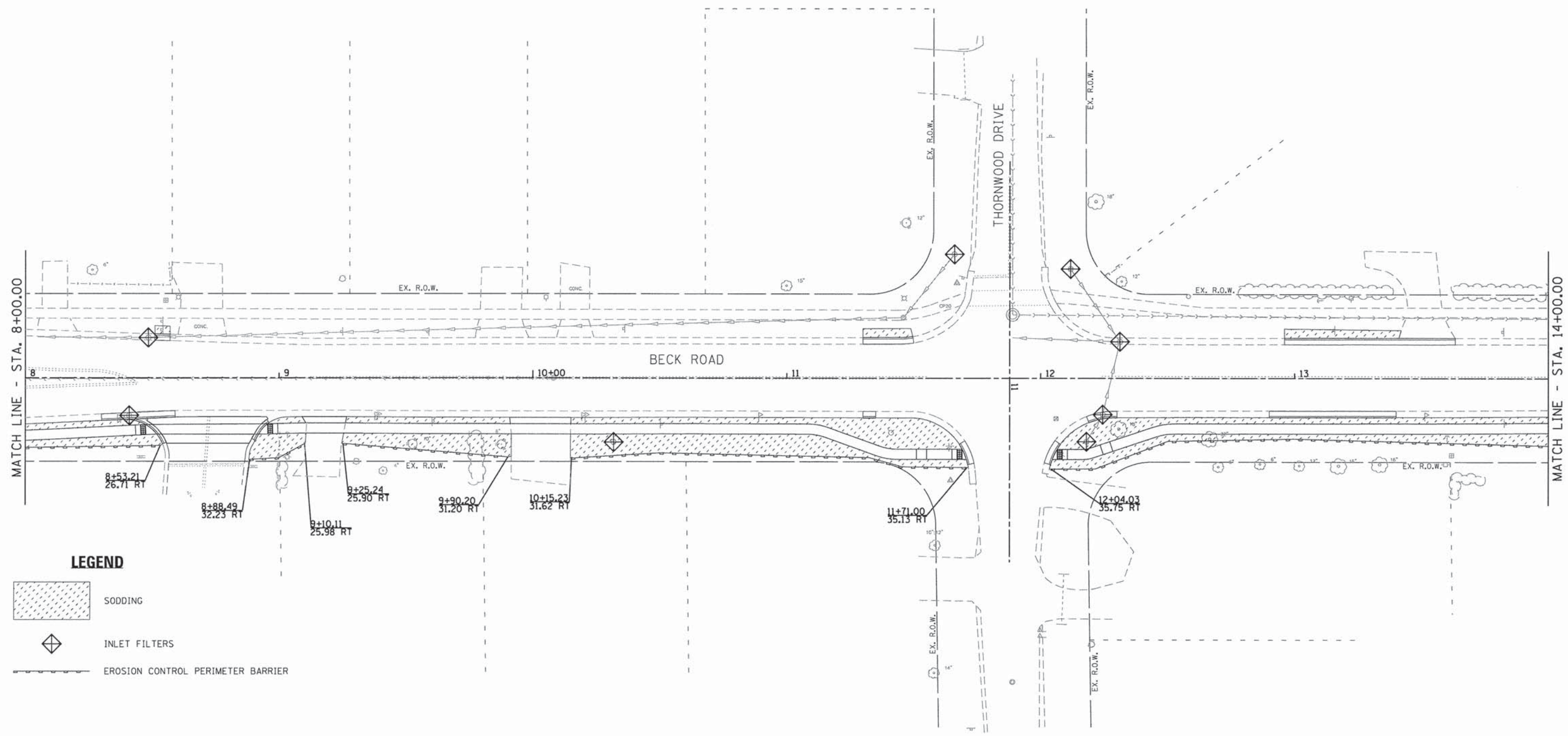


**LEGEND**




-  SODDING
-  INLET FILTERS
-  EROSION CONTROL PERIMETER BARRIER

**GHA** GEWALT HAMILTON ASSOCIATES, INC.

FILE NAME = 4477-EROS01.dgn	USER NAME = mcoleman	DESIGNED - MAC	REVISED -	<b>STATE OF ILLINOIS DEPARTMENT OF TRANSPORTATION</b>	<b>EROSION AND SEDIMENT CONTROL PLAN BECK ROAD</b>			F.A.U. RTE. 160	SECTION 14-00030-00-RS	COUNTY LAKE	TOTAL SHEETS 213	SHEET NO. 76
GHA* 4477.025	PLOT SCALE = 1:20	CHECKED - KLB	REVISED -		SCALE: 1"=20'	SHEET 1 OF 19 SHEETS	STA. B.O.P. TO STA. 8+00.00	CONTRACT NO. 61C68		ILLINOIS FED. AID PROJECT		
4477-ESC01	PLOT DATE = 1/25/2016	DATE -	REVISED -									

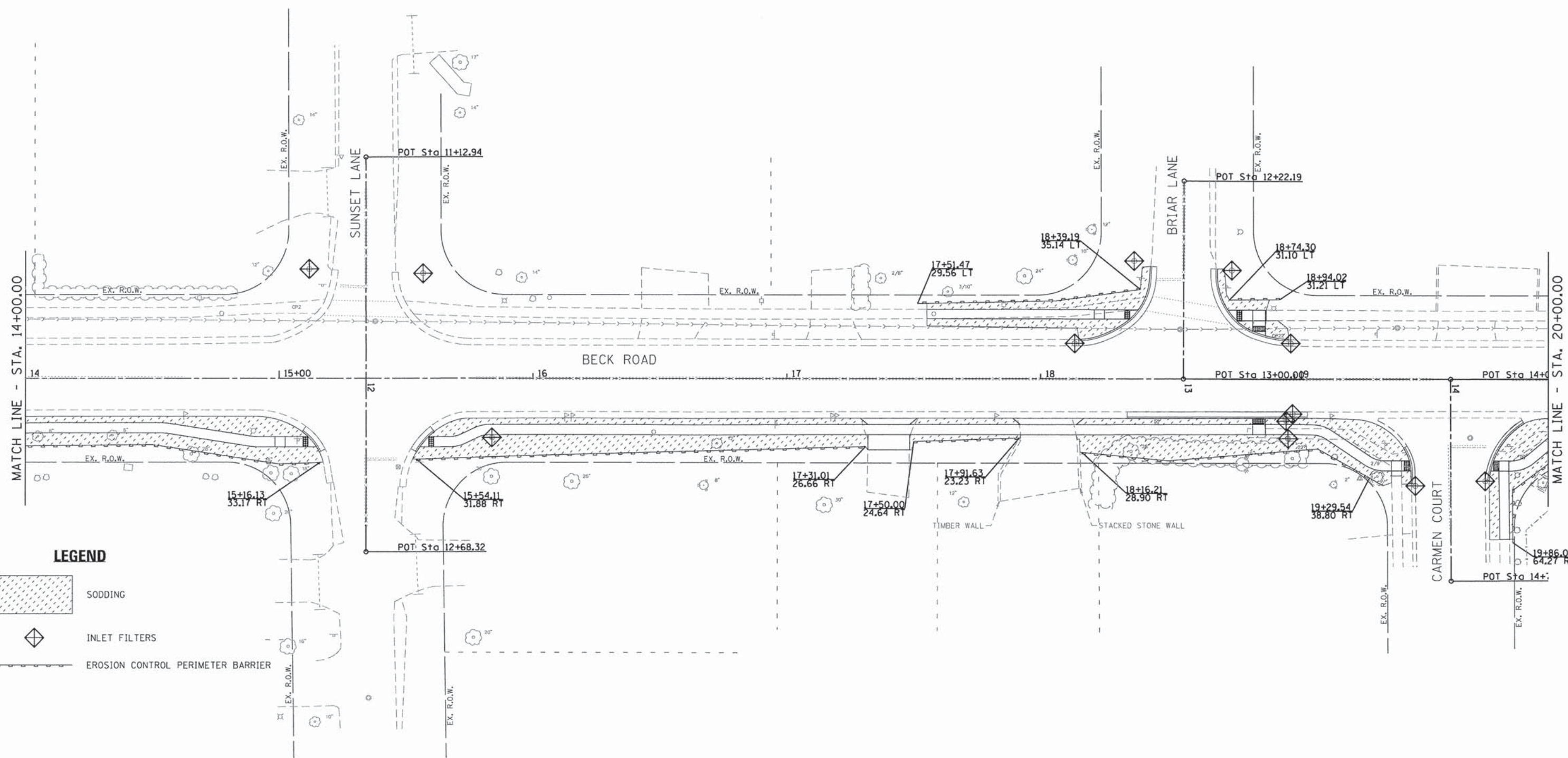


**LEGEND**




-  SODDING
-  INLET FILTERS
-  EROSION CONTROL PERIMETER BARRIER

**GHA** GEWALT HAMILTON ASSOCIATES, INC.

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GHAN 4477.025	PLOT SCALE = 1:20	CHECKED - KLB	REVISED -				SCALE: 1"=20'	SHEET 2 OF 19 SHEETS	STA. 8+00.00 TO STA. 14+00.00	CONTRACT NO. 61C68		ILLINOIS FED. AID PROJECT	
4477-ESC02	PLOT DATE = 1/25/2016	DATE -	REVISED -										



**LEGEND**

-  SODDING
-  INLET FILTERS
-  EROSION CONTROL PERIMETER BARRIER

**GHA** GEWALT HAMILTON ASSOCIATES, INC.

FILE NAME = 4477-EROS03.dgn  
 USER NAME = mcoleman  
 PLOT SCALE = 1:20  
 PLOT DATE = 1/25/2016

DESIGNED - MAC  
 DRAWN - ZCW  
 CHECKED - KLB  
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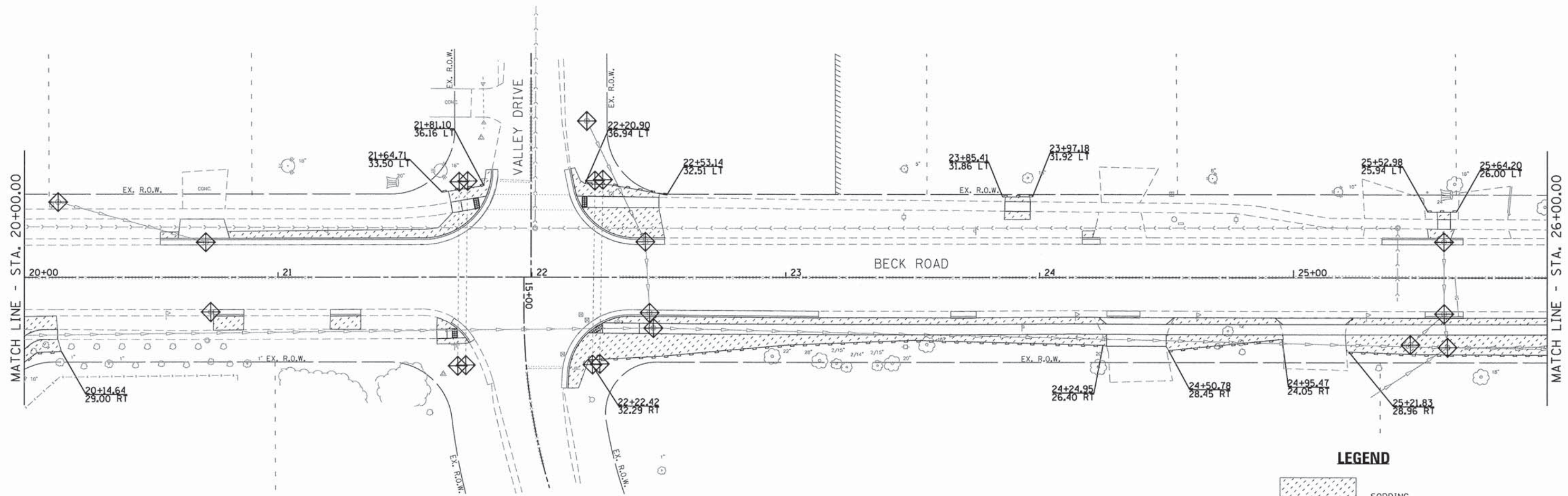
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**STATE OF ILLINOIS  
 DEPARTMENT OF TRANSPORTATION**

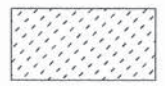


**EROSION AND SEDIMENT CONTROL PLAN  
 BECK ROAD**

SCALE: 1"=20'    SHEET 3 OF 19 SHEETS    STA. 14+00.00 TO STA. 20+00.00

F.A.U. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
160	14-00030-00-RS	LAKE	213	78
CONTRACT NO. 61C68				
ILLINOIS FED. AID PROJECT				



**LEGEND**

-  SODDING
-  INLET FILTERS
-  EROSION CONTROL PERIMETER BARRIER

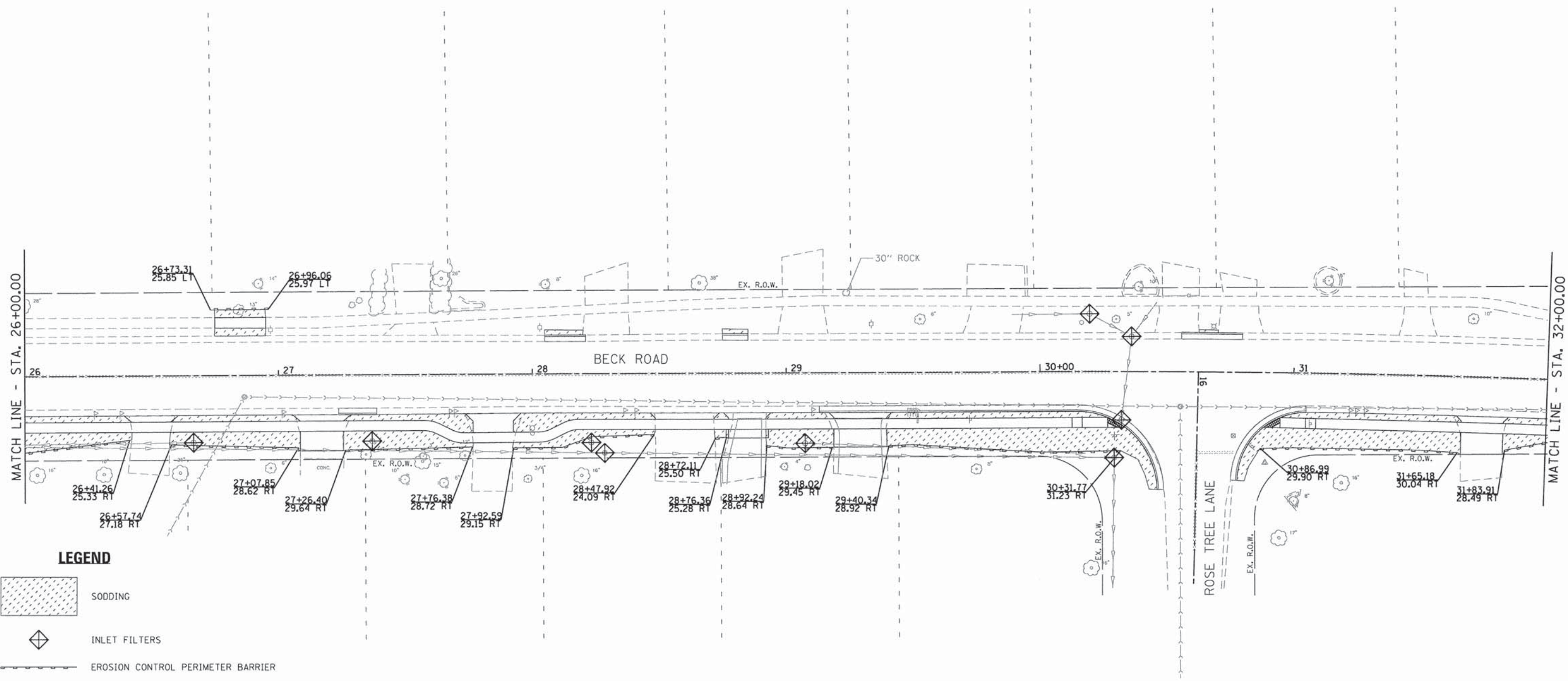
**CH2M HILL**  
GEWALT HAMILTON  
ASSOCIATES, INC.

FILE NAME = 4477-EROS04.dgn	USER NAME = mcoleman	DESIGNED - MAC	REVISED -
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4477-ESC04	PLOT DATE = 1/25/2016	CHECKED - KLB	REVISED -
	DATE -		REVISED -




**STATE OF ILLINOIS  
DEPARTMENT OF TRANSPORTATION**

<b>EROSION AND SEDIMENT CONTROL PLAN BECK ROAD</b>	
SCALE: 1"=20'	SHEET 4 OF 19 SHEETS STA. 20+00.00 TO STA. 26+00.00

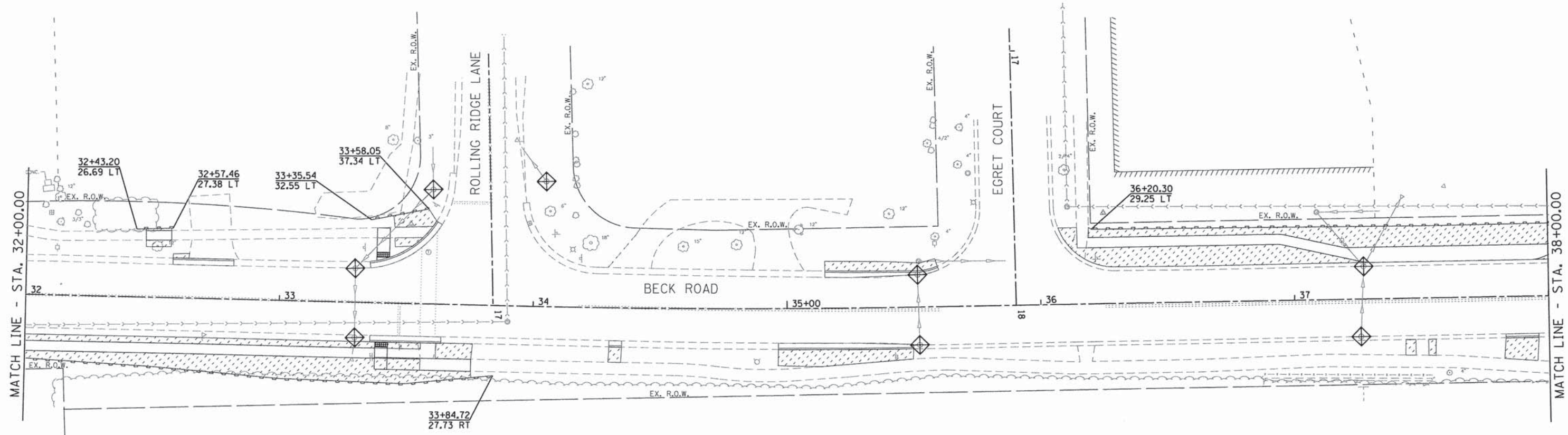
F.A.U. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
160	14-00030-00-RS	LAKE	213	79
CONTRACT NO. 61C68				
ILLINOIS FED. AID PROJECT				






**LEGEND**

-  SODDING
-  INLET FILTERS
-  EROSION CONTROL PERIMETER BARRIER





-  SODDING
-  INLET FILTERS
-  EROSION CONTROL PERIMETER BARRIER

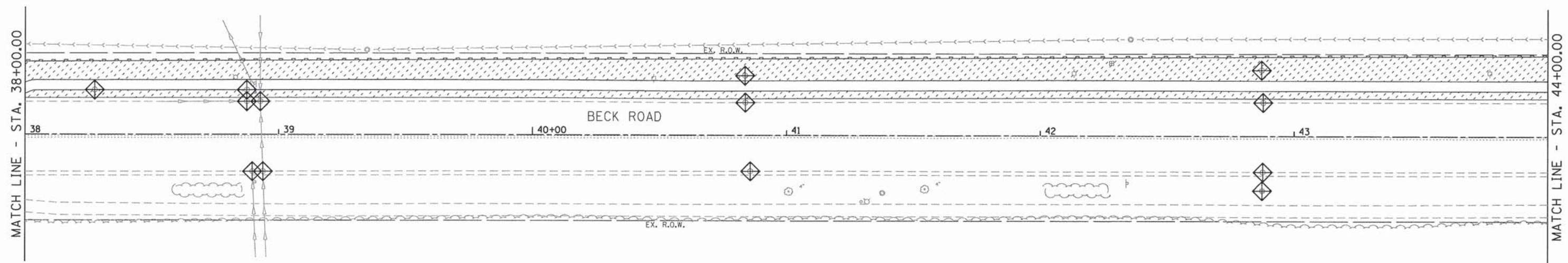
**GHA** GEWALT HAMILTON ASSOCIATES, INC.

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4477-ESC06	PLOT DATE = 1/25/2016	CHECKED - KLB	REVISED -
	DATE -		REVISED -




**STATE OF ILLINOIS  
DEPARTMENT OF TRANSPORTATION**

<b>EROSION AND SEDIMENT CONTROL PLAN</b>	
<b>BECK ROAD</b>	
SCALE: 1"=20'	SHEET 6 OF 19 SHEETS STA. 32+00.00 TO STA. 38+00.00

F.A.U. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
160	14-00030-00-RS	LAKE	213	81
CONTRACT NO. 61C68				
ILLINOIS FED. AID PROJECT				



**LEGEND**

-  SODDING
-  INLET FILTERS
-  EROSION CONTROL PERIMETER BARRIER

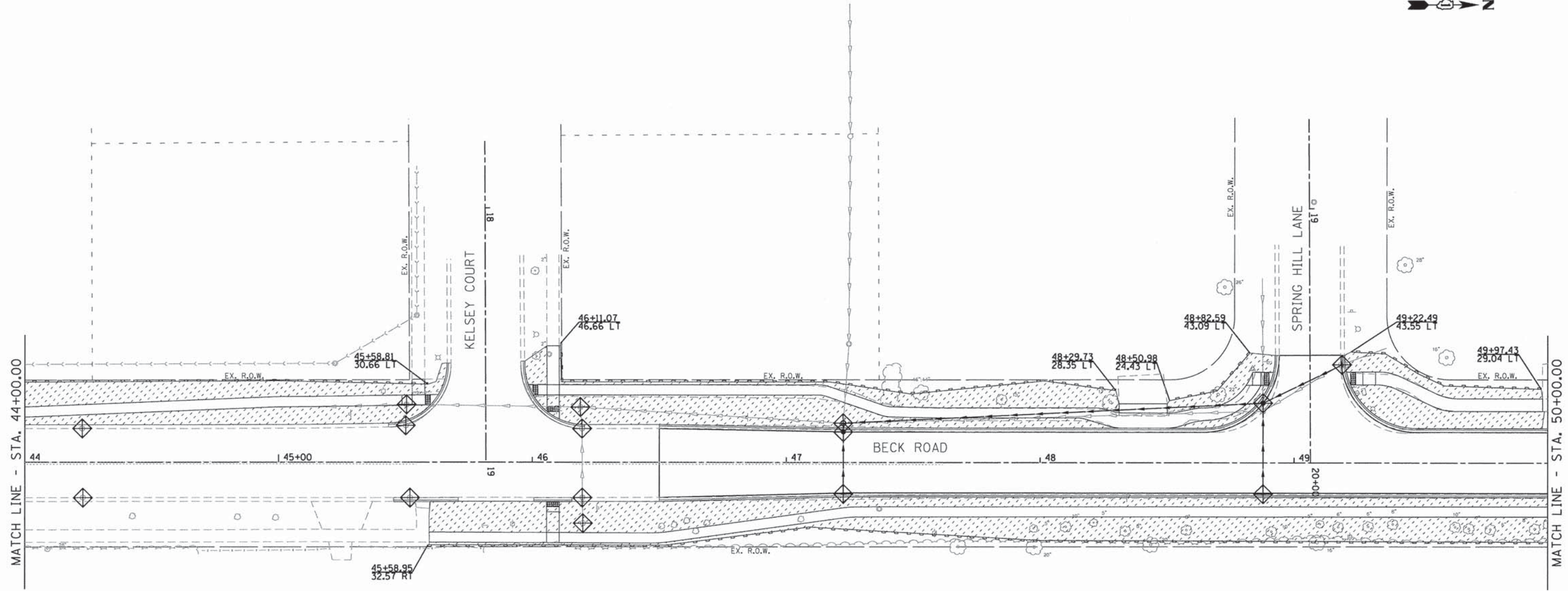
**GHA** GEWALT HAMILTON ASSOCIATES, INC.




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4477-ESC07	PLOT DATE = 1/25/2016	CHECKED - KLB	REVISED -
	DATE -		REVISED -

**STATE OF ILLINOIS  
DEPARTMENT OF TRANSPORTATION**

<b>EROSION AND SEDIMENT CONTROL PLAN BECK ROAD</b>			
SCALE: 1"=20'	SHEET 7 OF 19 SHEETS	STA. 38+00.00	TO STA. 44+00.00

F.A.J. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
160	14-00030-00-RS	LAKE	213	82
<b>CONTRACT NO. 61C68</b>				
ILLINOIS FED. AID PROJECT				



-  SODDING
-  INLET FILTERS
-  EROSION CONTROL PERIMETER BARRIER

**GHA** GEWALT HAMILTON ASSOCIATES, INC.

FILE NAME = 4477-EROS08.dgn  
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USER NAME = mcoleman  
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DESIGNED - MAC  
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 CHECKED - KLB  
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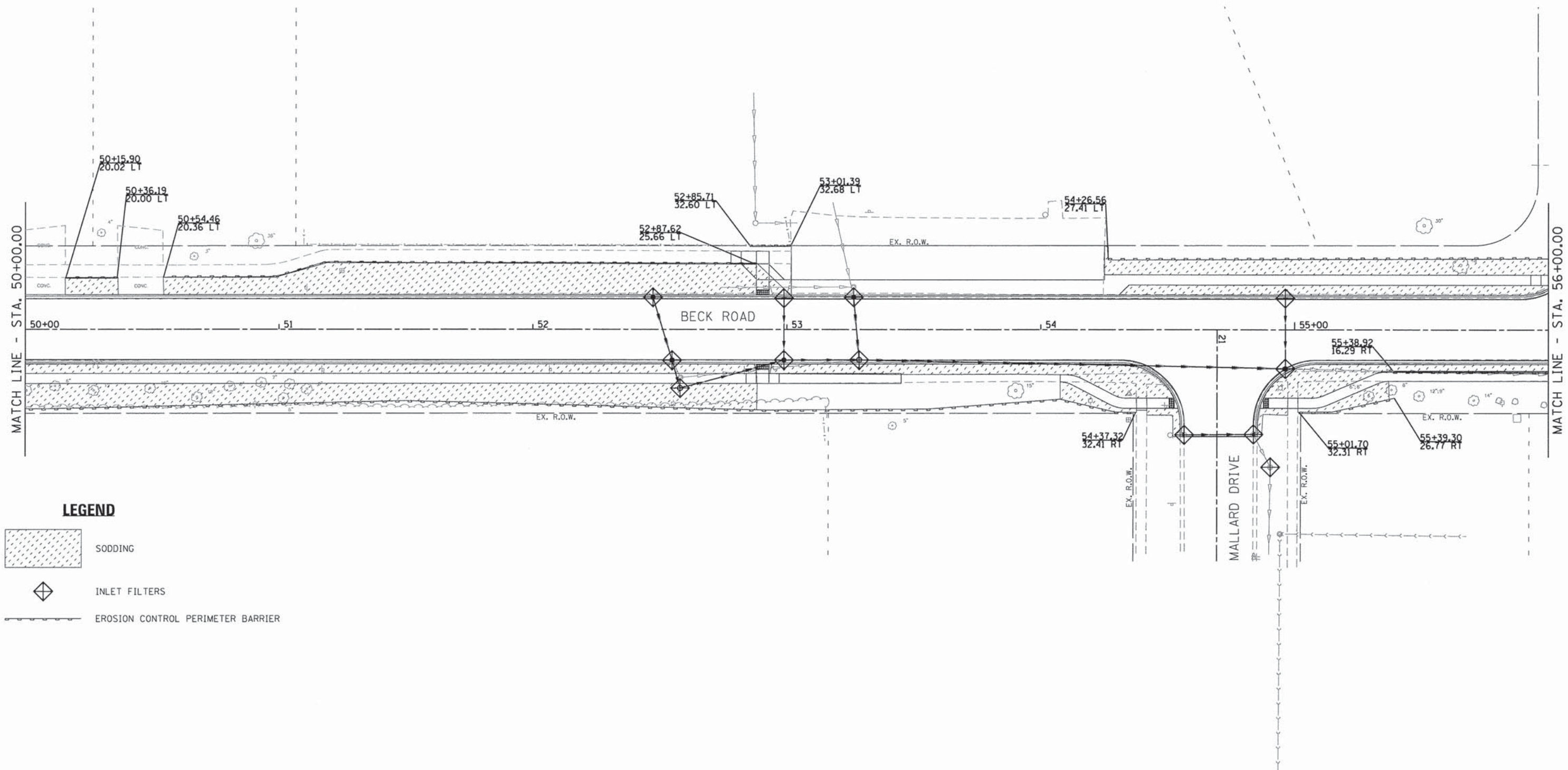
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**STATE OF ILLINOIS  
 DEPARTMENT OF TRANSPORTATION**




**EROSION AND SEDIMENT CONTROL PLAN  
 BECK ROAD**

SCALE: 1"=20' SHEET 8 OF 19 SHEETS STA. 44+00.00 TO STA. 50+00.00

F.A.U. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
160	14-00030-00-RS	LAKE	213	83
				CONTRACT NO. 61C68
ILLINOIS FED. AID PROJECT				



**LEGEND**

-  SODDING
-  INLET FILTERS
-  EROSION CONTROL PERIMETER BARRIER

**GHA** GEWALT HAMILTON ASSOCIATES, INC.

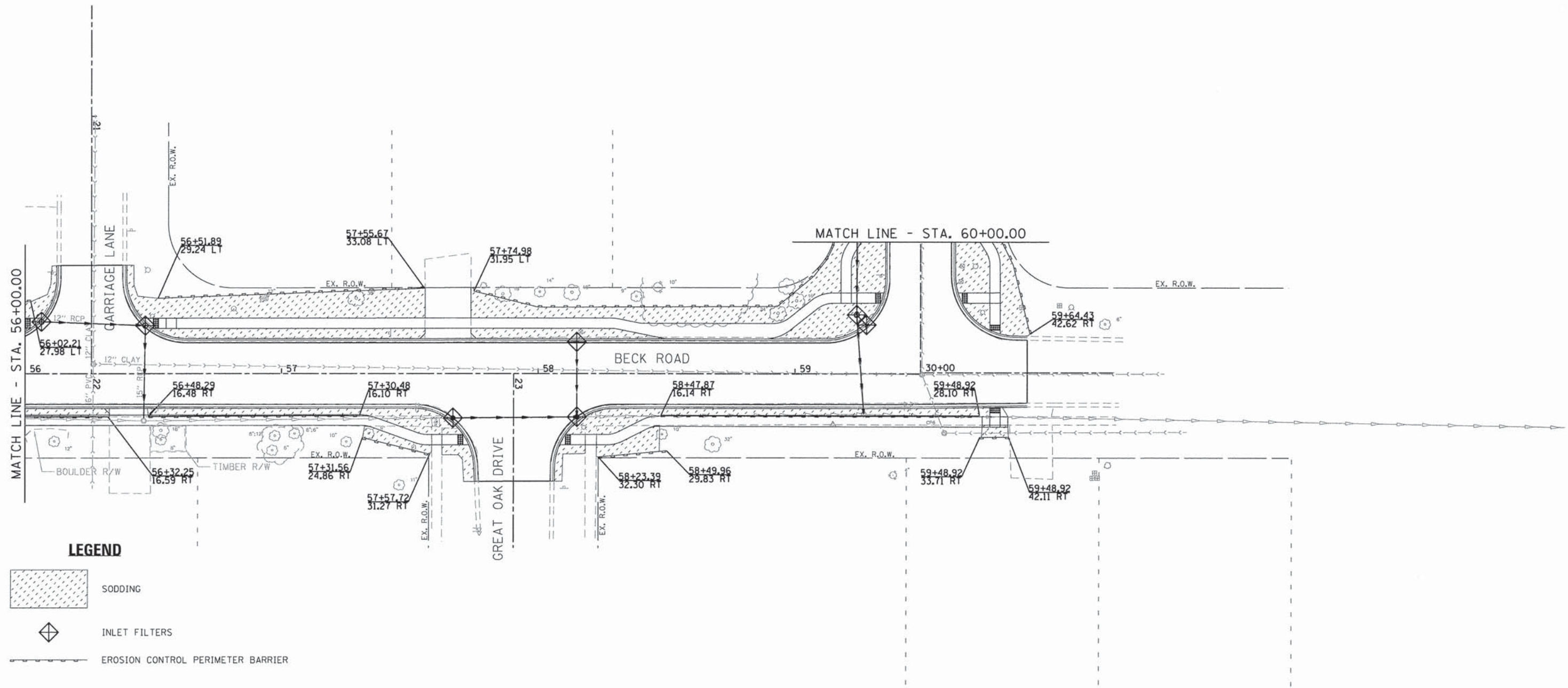
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4477-ESC09	PLOT DATE = 1/25/2016	CHECKED - KLB	REVISED -
		DATE -	REVISED -

**STATE OF ILLINOIS  
DEPARTMENT OF TRANSPORTATION**




**EROSION AND SEDIMENT CONTROL PLAN  
BECK ROAD**

SCALE: 1"=20'    SHEET 9 OF 19 SHEETS    STA. 50+00.00 TO STA. 56+00.00

F.A.U. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
160	14-00030-00-RS	LAKE	213	84
CONTRACT NO. 61C68				
ILLINOIS FED. AID PROJECT				



**LEGEND**

-  SODDING
-  INLET FILTERS
-  EROSION CONTROL PERIMETER BARRIER

**GEWALT HAMILTON ASSOCIATES, INC.**

FILE NAME = 4477-EROS10.dgn  
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4477-ESC10

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PLOT SCALE = 1:20  
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CHECKED - KLB  
DATE -

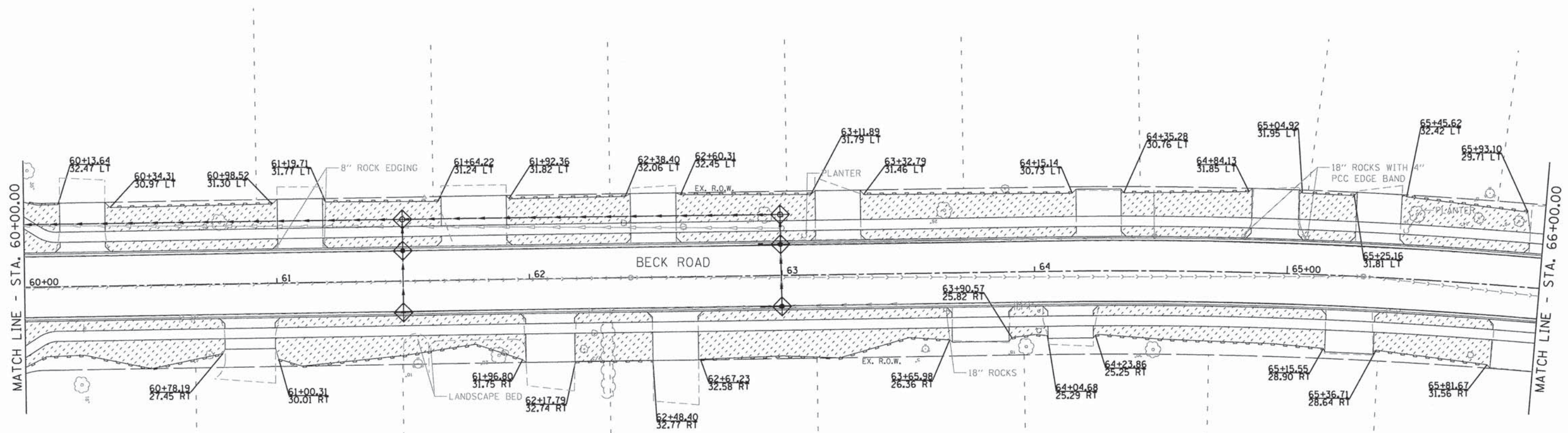
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**STATE OF ILLINOIS  
DEPARTMENT OF TRANSPORTATION**




**EROSION AND SEDIMENT CONTROL PLAN  
BECK ROAD**

SCALE: 1"=20' SHEET 10 OF 19 SHEETS STA. 56+00.00 TO STA. 60+00.00

F.A.U. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
160	14-00030-00-RS	LAKE	213	85
CONTRACT NO. 61C68				
ILLINOIS FED. AID PROJECT				



**LEGEND**

-  SODDING
-  INLET FILTERS
-  EROSION CONTROL PERIMETER BARRIER

**GEWALT HAMILTON ASSOCIATES, INC.**

FILE NAME = 4477-EROS11.dgn  
 GHA\* 4477.025  
 4477-ESC11

USER NAME = mcolem  
 PLOT SCALE = 1:20  
 PLOT DATE = 1/25/2016

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 CHECKED - KLB  
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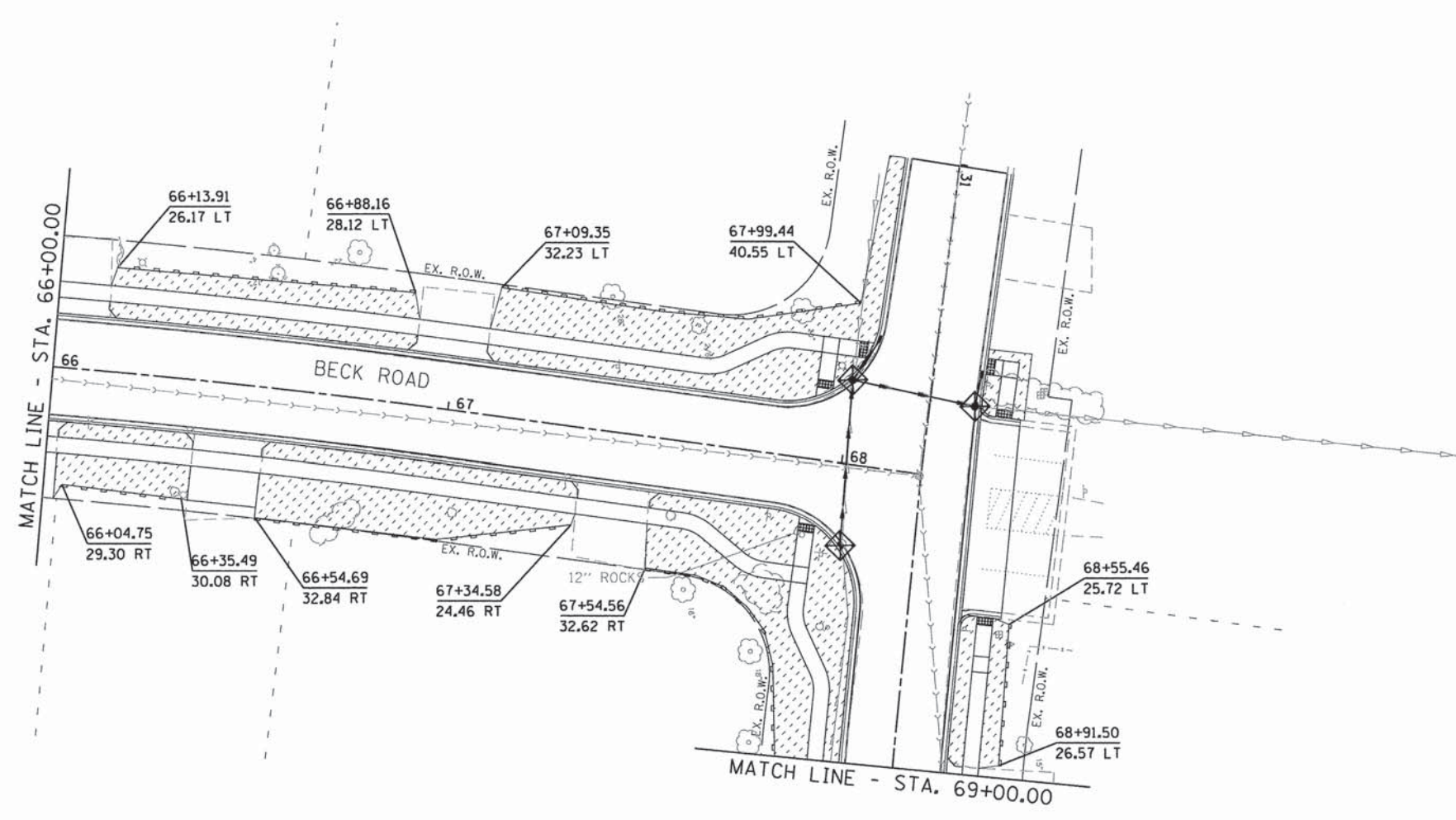
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**STATE OF ILLINOIS  
 DEPARTMENT OF TRANSPORTATION**




**EROSION AND SEDIMENT CONTROL PLAN  
 BECK ROAD**

SCALE: 1"=20'    SHEET 11 OF 19 SHEETS    STA. 60+00.00 TO STA. 66+00.00

F.A.U. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
160	14-00030-00-RS	LAKE	213	86
CONTRACT NO. 61C68				
ILLINOIS FED. AID PROJECT				



**LEGEND**

-  SODDING
-  INLET FILTERS
-  EROSION CONTROL PERIMETER BARRIER

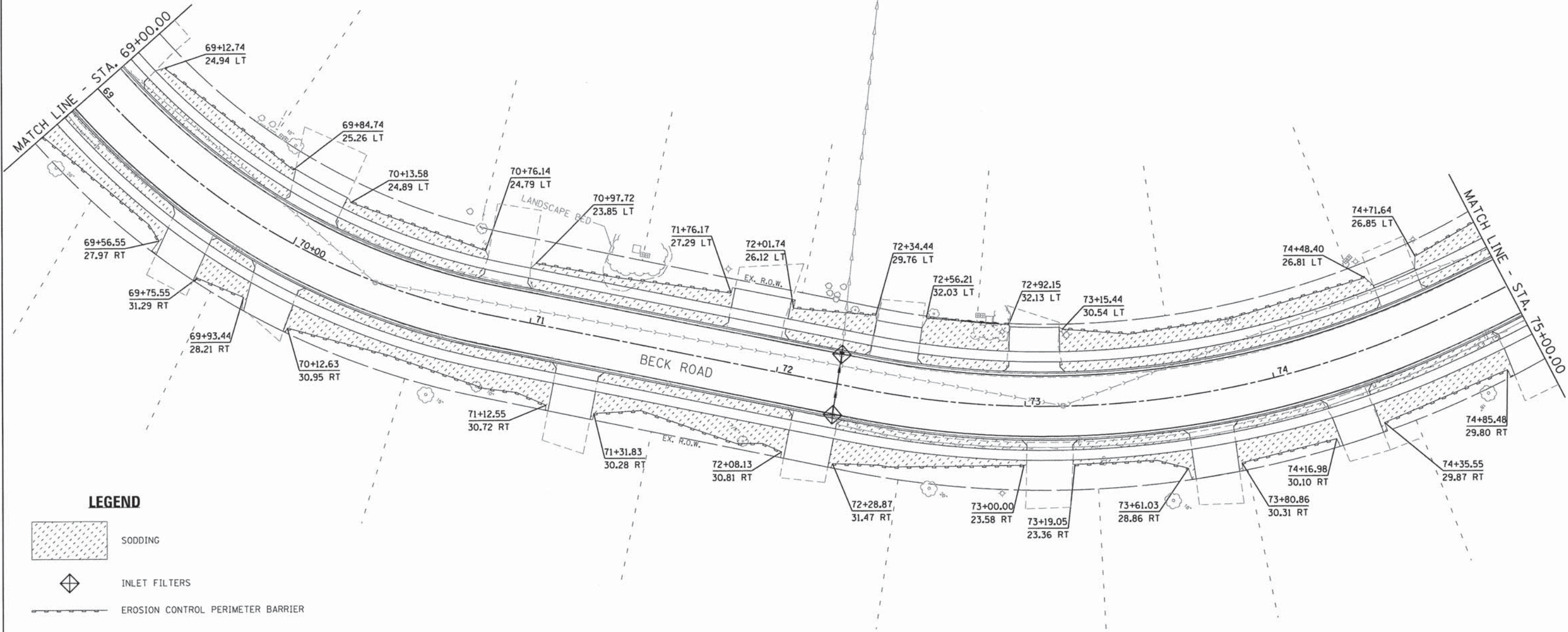
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4477-ESC12	PLOT DATE = 1/25/2016	CHECKED - KLB	REVISED -
		DATE -	REVISED -

**STATE OF ILLINOIS  
DEPARTMENT OF TRANSPORTATION**




**EROSION AND SEDIMENT CONTROL PLAN  
BECK ROAD**

SCALE: 1"=20'    SHEET 12 OF 19 SHEETS    STA. 66+00.00 TO STA. 69+00.00

F.A.U. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
160	14-00030-00-RS	LAKE	213	87
CONTRACT NO. 61C68				
ILLINOIS FED. AID PROJECT				



**LEGEND**

-  SODDING
-  INLET FILTERS
-  EROSION CONTROL PERIMETER BARRIER

**GHA** GEVAULT HAMILTON ASSOCIATES, INC.

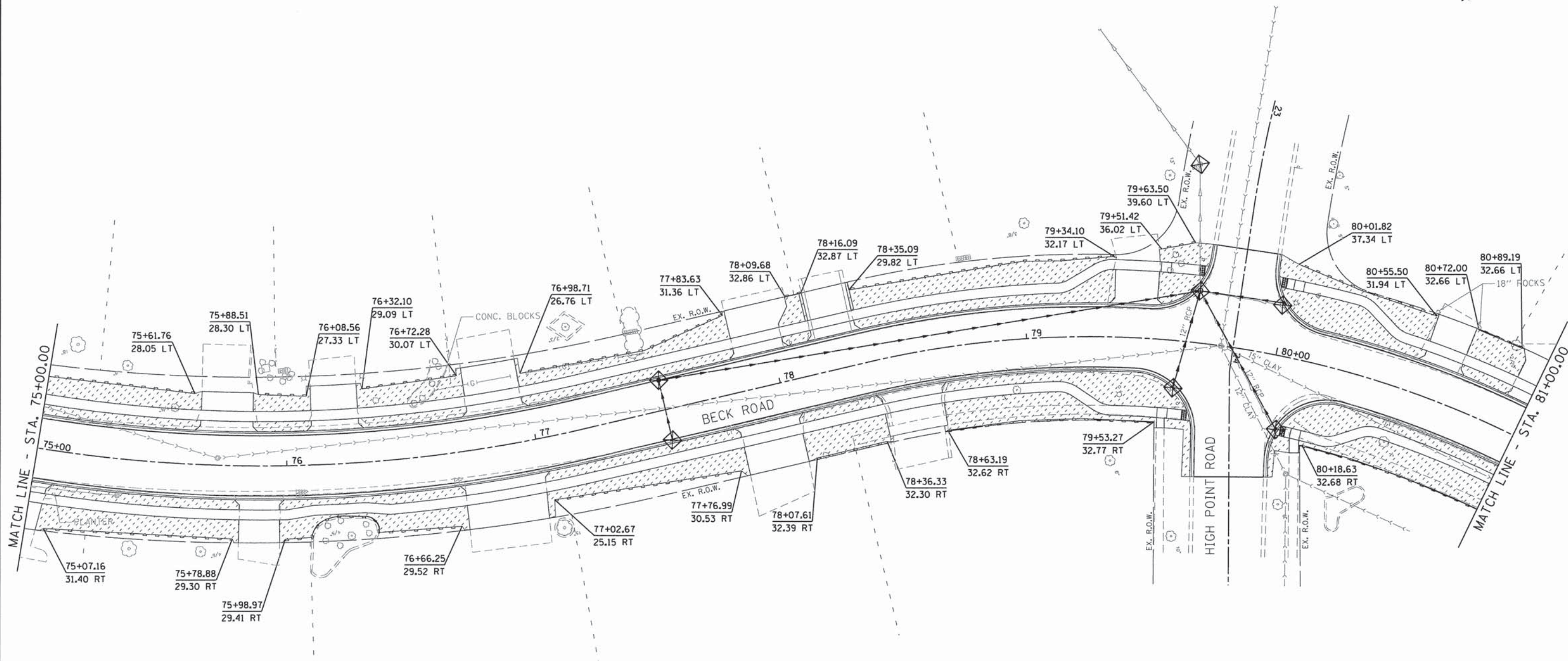
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4477-ESC13	PLOT DATE = 1/25/2016	CHECKED - KLB	REVISED -
		DATE -	REVISED -

**STATE OF ILLINOIS  
DEPARTMENT OF TRANSPORTATION**




<b>EROSION AND SEDIMENT CONTROL PLAN</b>	
<b>BECK ROAD</b>	
SCALE: 1"=20'	SHEET 13 OF 19 SHEETS
STA. 69+00.00 TO STA. 75+00.00	

F.A.U. RTE. 160	SECTION 14-00030-00-R5	COUNTY LAKE	TOTAL SHEETS 213	SHEET NO. 88
CONTRACT NO. 61C68				
ILLINOIS FED. AID PROJECT				





**LEGEND**

-  SODDING
-  INLET FILTERS
-  EROSION CONTROL PERIMETER BARRIER

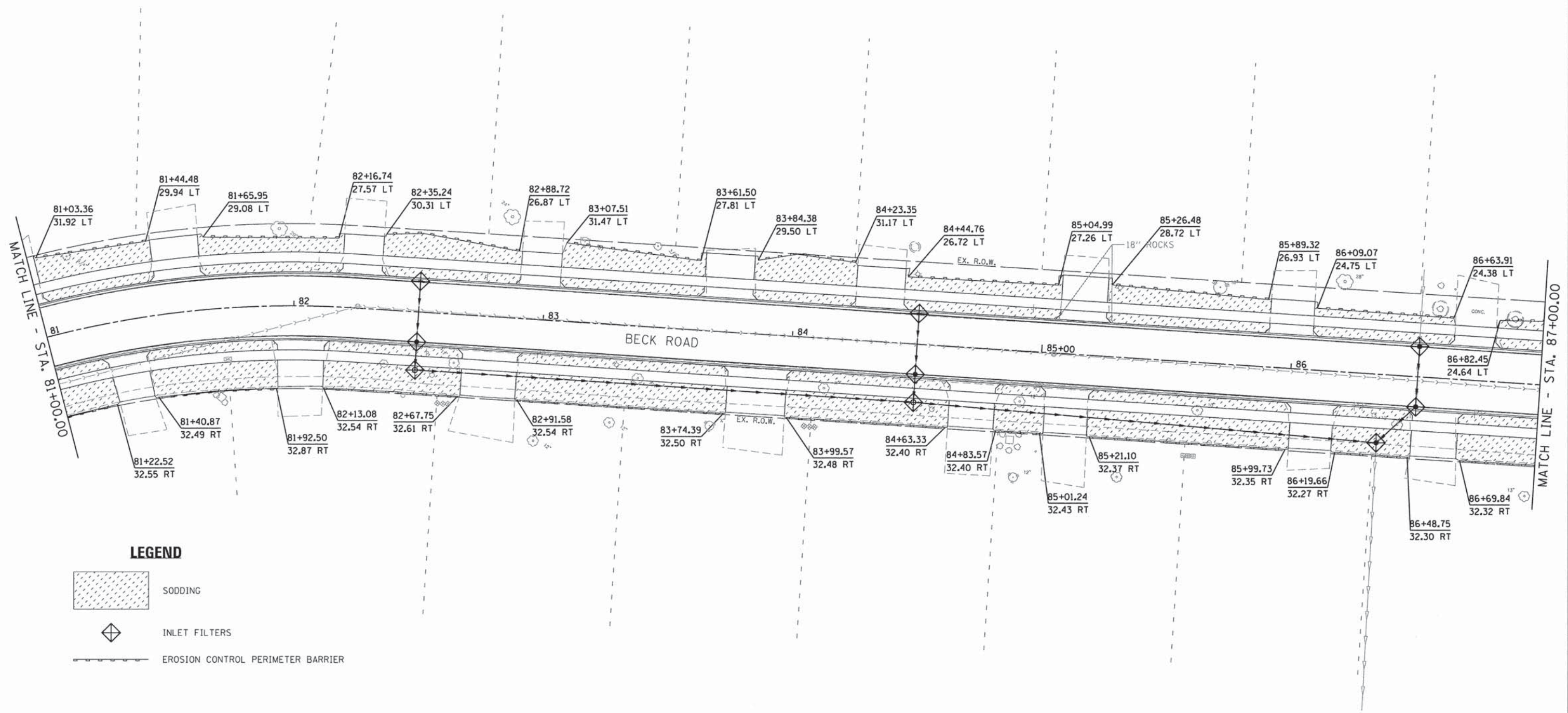
**GHA** GEWALT HAMILTON ASSOCIATES, INC.

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DHA* 4477.025		DRAWN - ZCW	REVISED -
4477-ESC14		CHECKED - KLB	REVISED -
		DATE -	REVISED -




**STATE OF ILLINOIS  
DEPARTMENT OF TRANSPORTATION**

<b>EROSION AND SEDIMENT CONTROL PLAN BECK ROAD</b>			
SCALE: 1"=20'	SHEET 14 OF 19 SHEETS	STA. 75+00.00 TO STA. 81+00.00	

F.A.U. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
160	14-00030-00-RS	LAKE	213	89
CONTRACT NO. 61C68				
ILLINOIS FED. AID PROJECT				



**LEGEND**

-  SODDING
-  INLET FILTERS
-  EROSION CONTROL PERIMETER BARRIER

**GEWALT HAMILTON ASSOCIATES, INC.**

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GHA\* 4477.025  
4477-ESC15

USER NAME = mcolemen  
PLOT SCALE = 1:20  
PLOT DATE = 1/25/2016

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DATE -

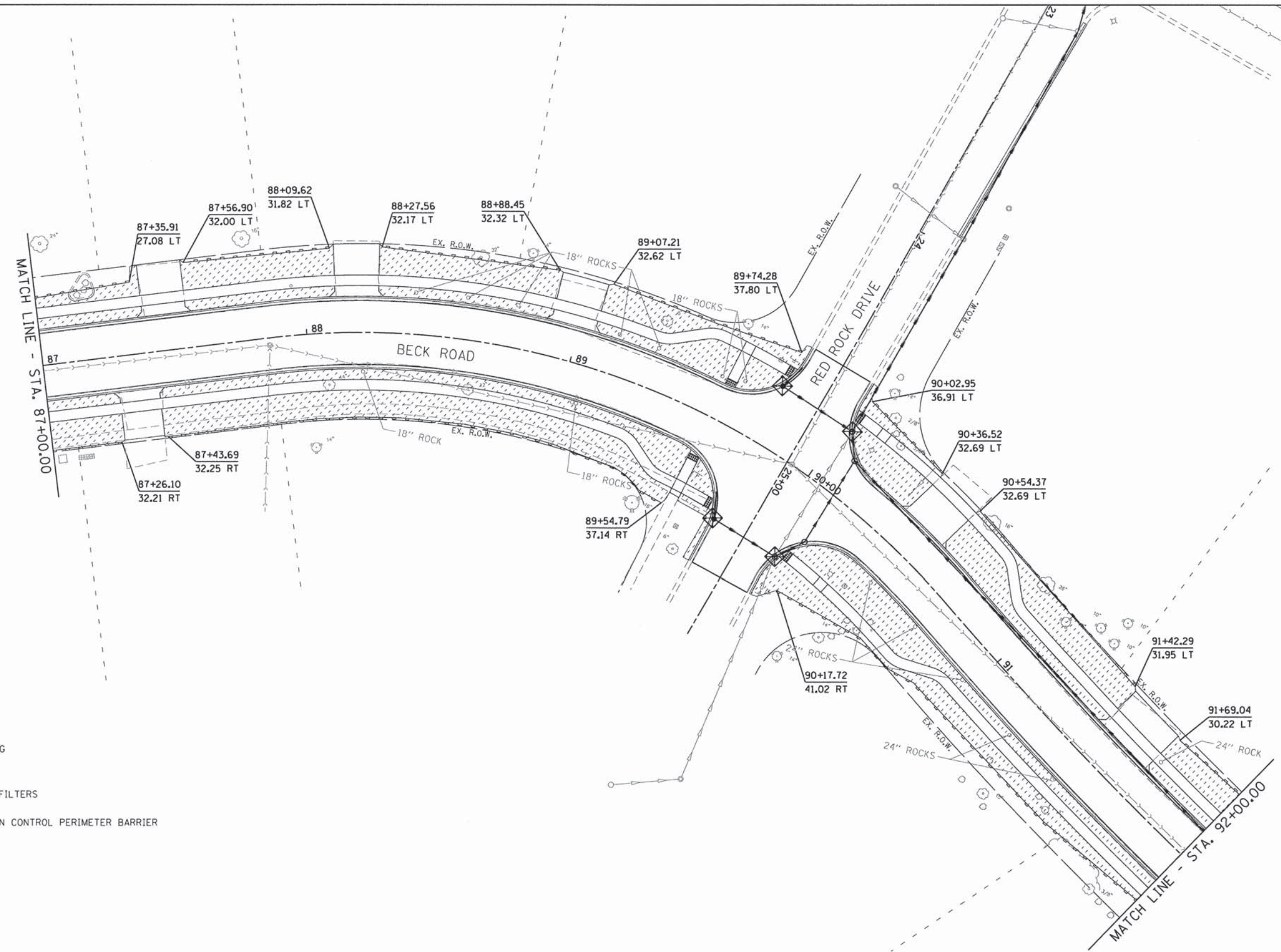
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**STATE OF ILLINOIS  
DEPARTMENT OF TRANSPORTATION**




**EROSION AND SEDIMENT CONTROL PLAN  
BECK ROAD**

SCALE: 1"=20' SHEET 15 OF 19 SHEETS STA. 81+00.00 TO STA. 87+00.00

F.A.U. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
160	14-00030-00-RS	LAKE	213	90
CONTRACT NO. 61C68				
ILLINOIS FED. AID PROJECT				



**LEGEND**

-  SODDING
-  INLET FILTERS
-  EROSION CONTROL PERIMETER BARRIER

**GHA** GEWALT HAMILTON ASSOCIATES, INC.

FILE NAME = 4477-EROS16.dgn  
GHA# 4477.025  
4477-ESC16

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PLOT DATE = 1/25/2016

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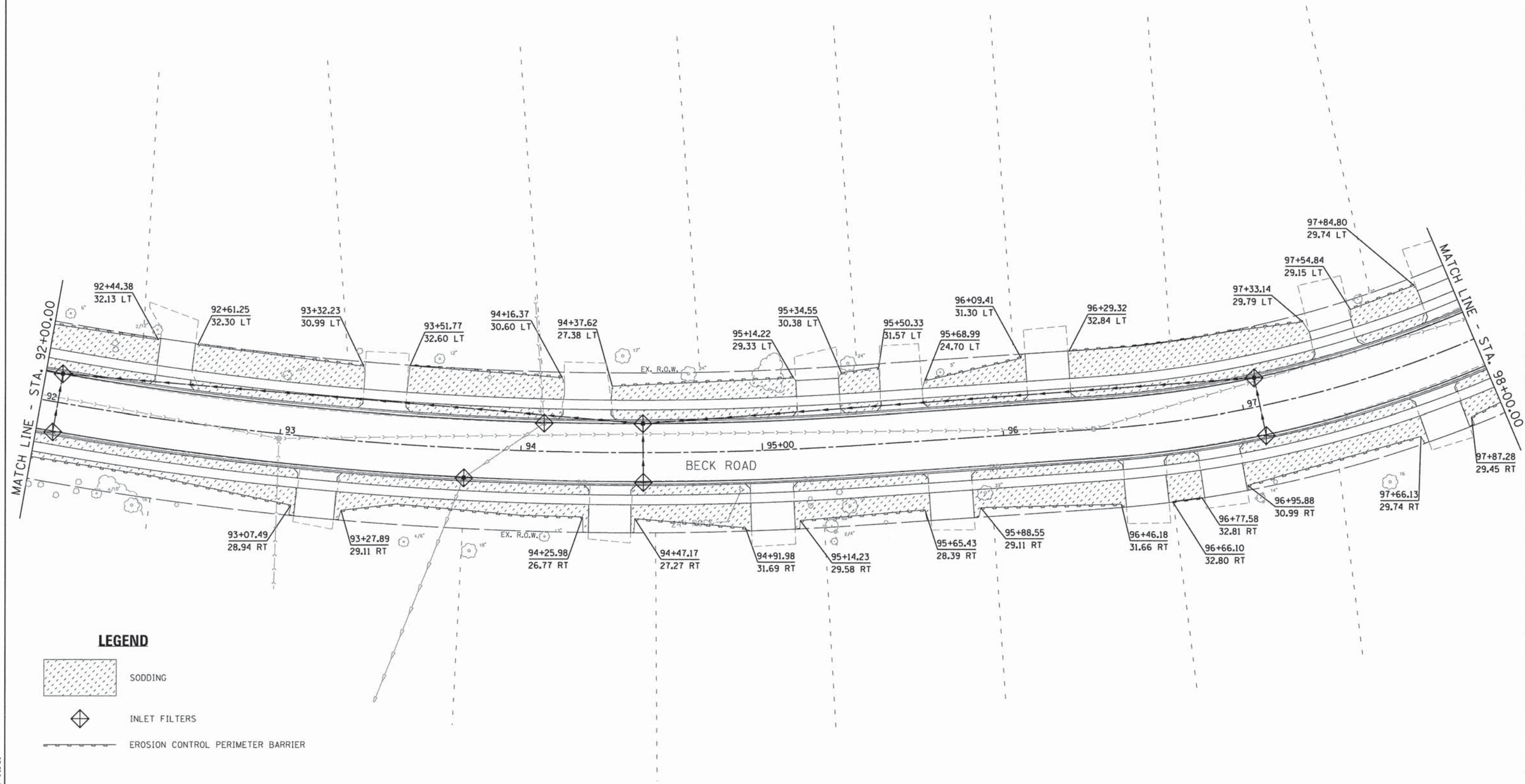
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**STATE OF ILLINOIS  
DEPARTMENT OF TRANSPORTATION**




**EROSION AND SEDIMENT CONTROL PLAN  
BECK ROAD**

SCALE: 1"=20' SHEET 16 OF 19 SHEETS STA. 87+00.00 TO STA. 92+00.00

F.A.U. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
160	14-00030-00-RS	LAKE	213	91
CONTRACT NO. 61C68				
ILLINOIS FED. AID PROJECT				



**LEGEND**

-  SODDING
-  INLET FILTERS
-  EROSION CONTROL PERIMETER BARRIER

**GHA** GEWALT HAMILTON ASSOCIATES, INC.

FILE NAME = 4477-EROSI7.dgn  
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 4477-ESC17

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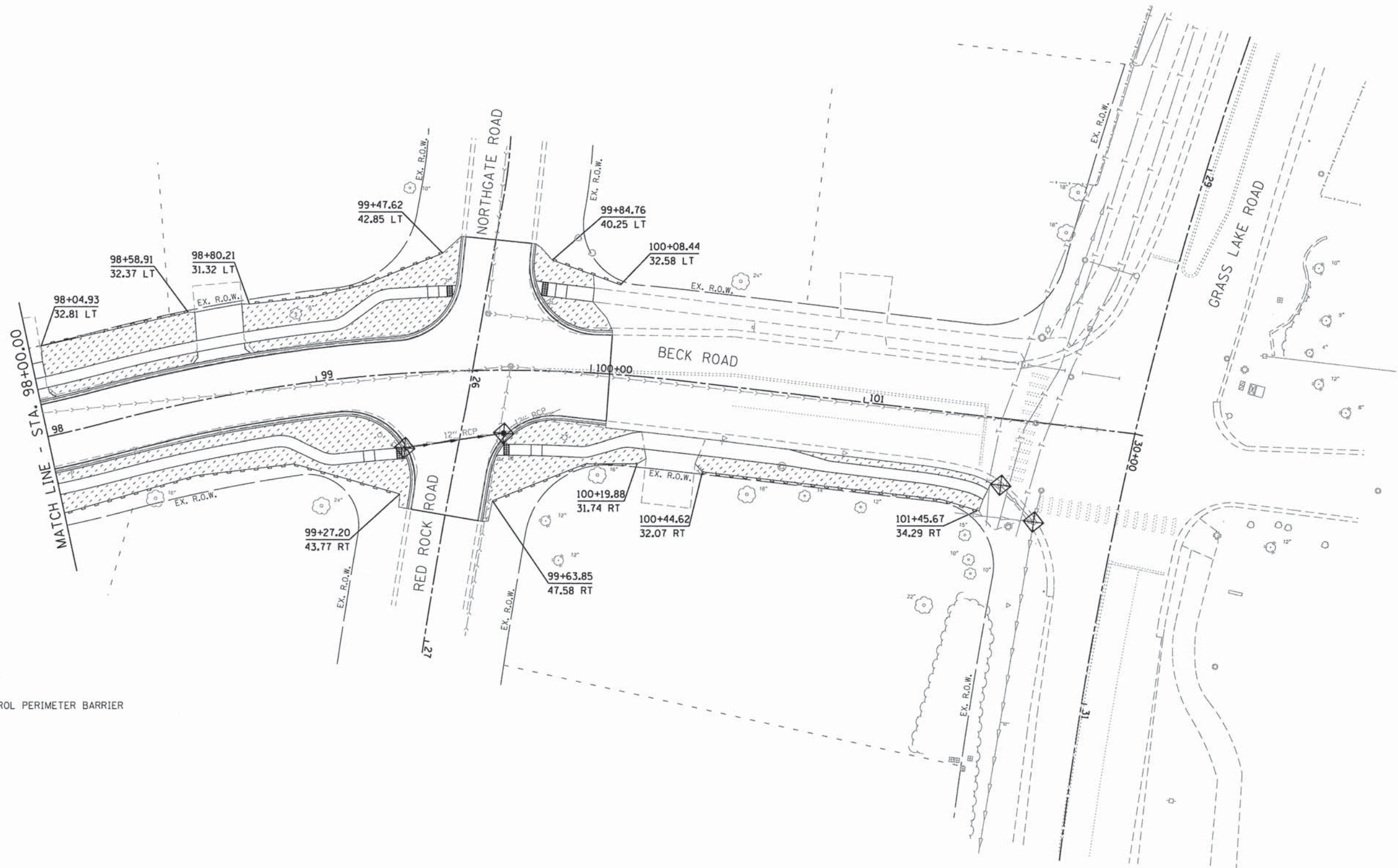
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**STATE OF ILLINOIS  
 DEPARTMENT OF TRANSPORTATION**

**EROSION AND SEDIMENT CONTROL PLAN  
 BECK ROAD**

SCALE: 1"=20' SHEET 17 OF 19 SHEETS STA. 92+00.00 TO STA. 98+00.00

F.A.U. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
160	14-00030-00-R5	LAKE	213	92
CONTRACT NO. 61C68				
ILLINOIS FED. AID PROJECT				



-  SODDING
-  INLET FILTERS
-  EROSION CONTROL PERIMETER BARRIER



FILE NAME = 4477-EROS18.dgn  
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 4477-ESC18

USER NAME = mcolem  
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 PLOT DATE = 1/25/2016

DESIGNED - MAC  
 DRAWN - ZCW  
 CHECKED - KLB  
 DATE -

REVISED -  
 REVISED -  
 REVISED -  
 REVISED -

**STATE OF ILLINOIS  
 DEPARTMENT OF TRANSPORTATION**

**EROSION AND SEDIMENT CONTROL PLAN  
 BECK ROAD**

SCALE: 1"=20' SHEET 18 OF 19 SHEETS STA. 98+00.00 TO STA. E.O.P

F.A.U. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
160	14-00030-00-RS	LAKE	213	93
CONTRACT NO. 61C68				
ILLINOIS FED. AID PROJECT				



**STORMWATER MANAGEMENT COMMISSION**

**TYPICAL CONSTRUCTION SEQUENCING**

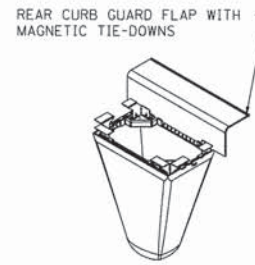
- 1.) Installation of soil erosion and sediment control SE/SC measures
    - a.) Selective vegetation removal for silt fence installation
    - b.) Silt fence installation
    - c.) Construction fencing around areas not to be disturbed
    - d.) Stabilized construction entrance
  - 2.) Tree removal where necessary (clear & grub)
  - 3.) Construct sediment trapping devices (sediment traps, basins...)
  - 4.) Construct detention facilities and outlet control structure with restrictor & temporary perforated riser
  - 5.) Strip topsoil, stockpile topsoil and grade site
  - 6.) Temporarily stabilize topsoil stockpiles (seed and silt fence around toe of slope)
  - 7.) Install storm sewer, sanitary sewer, water and associated inlet & outlet protection
  - 8.) Permanently stabilize detention basins with seed and erosion control blanket
  - 9.) Temporarily stabilize all areas including lots that have reached temporary grade
  - 10.) Install roadways
  - 11.) Permanently stabilize all outlet areas
  - 12.) Install structures and grade individual lots
  - 13.) Permanently stabilize lots
  - 14.) Remove all temporary SE/SC measures after the site is stabilized with vegetation
- \* Soil erosion and sediment control maintenance must occur every two weeks and after every 1/2 or greater rainfall event

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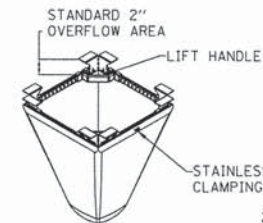
**LAKE COUNTY STORMWATER MANAGEMENT COMMISSION  
SOIL EROSION AND SEDIMENT CONTROL CONSTRUCTION NOTES**

- A. SEDIMENT CONTROL MEASURES SHALL BE INSTALLED PRIOR TO THE COMMENCEMENT OF HYDROLOGIC DISTURBANCE OF UPLAND AREAS.
- B. FOR THOSE DEVELOPMENTS THAT REQUIRE A DESIGNATED EROSION CONTROL INSPECTOR (DECI), INSPECTIONS AND DOCUMENTATION SHALL BE PERFORMED, AT A MINIMUM:
  - UPON COMPLETION OF SEDIMENT AND RUNOFF CONTROL MEASURES (INCLUDING PERIMETER CONTROLS AND DIVERSIONS), PRIOR TO PROCEEDING WITH ANY OTHER EARTH DISTURBANCE OR GRADING.
  - AFTER EVERY SEVEN (7) CALENDAR DAYS OR STORM EVENT WITH GREATER THAN 0.5 INCH OF RAINFALL OR LIQUID EQUIVALENT PRECIPITATION.
- C. SOIL DISTURBANCE SHALL BE CONDUCTED IN SUCH A MANNER AS TO MINIMIZE EROSION. IF STRIPPING, CLEARING, GRADING, OR LANDSCAPING ARE TO BE DONE IN PHASES, THE PERMITTEE SHALL PLAN FOR APPROPRIATE SOIL EROSION AND SEDIMENT CONTROL MEASURES.
- D. A STABILIZED MAT OF CRUSHED STONE MEETING IDOT GRADATION CA-1 UNDERLAIN WITH FILTER FABRIC AND IN ACCORDANCE WITH THE ILLINOIS URBAN MANUAL, OR OTHER APPROPRIATE MEASURE(S) AS APPROVED BY THE ENFORCEMENT OFFICER, SHALL BE INSTALLED AT ANY POINT WHERE TRAFFIC WILL BE ENTERING OR LEAVING A CONSTRUCTION SITE. SEDIMENT OR SOIL REACHING AN IMPROVED PUBLIC RIGHT-OF-WAY, STREET, ALLEY OR PARKING AREA SHALL BE REMOVED BY SCRAPING OR STREET CLEANING AS ACCUMULATIONS WARRANT AND TRANSPORTED TO A CONTROLLED SEDIMENT DISPOSAL AREA.
- E. TEMPORARY DIVERSIONS SHALL BE CONSTRUCTED AS NECESSARY TO DIRECT ALL RUNOFF FROM HYDROLOGICALLY DISTURBED AREAS TO AN APPROPRIATE SEDIMENT TRAP OR BASIN.
- F. DISTURBED AREAS SHALL BE STABILIZED WITH TEMPORARY OR PERMANENT MEASURES WITHIN SEVEN (7) CALENDAR DAYS FOLLOWING THE END OF ACTIVE HYDROLOGIC DISTURBANCE OR REDISTURBANCE.
- G. ALL STOCKPILES SHALL HAVE APPROPRIATE MEASURES TO PREVENT EROSION. STOCKPILES SHALL NOT BE PLACED IN FLOOD PRONE AREAS OR WETLANDS AND DESIGNATED BUFFERS.
- H. SLOPES STEEPER THAN 3H:1V SHALL BE STABILIZED WITH APPROPRIATE MEASURES AS APPROVED BY THE ENFORCEMENT OFFICER.
- I. APPROPRIATE EROSION CONTROL BLANKET SHALL BE INSTALLED ON ALL INTERIOR DETENTION BASIN SIDE SLOPES BETWEEN THE NORMAL WATER LEVEL AND HIGH WATER LEVEL.
- J. STORM SEWERS THAT ARE OR WILL BE FUNCTIONING DURING CONSTRUCTION SHALL BE PROTECTED BY AN APPROPRIATE SEDIMENT CONTROL MEASURE.
- K. IF DEWATERING SERVICES ARE USED, ADJOINING PROPERTIES AND DISCHARGE LOCATIONS SHALL BE PROTECTED FROM EROSION AND SEDIMENTATION. DISCHARGES SHALL BE ROUTED THROUGH AN APPROVED ANIONIC POLYMER DEWATERING SYSTEM OR A SIMILAR MEASURE AS APPROVED BY THE ENFORCEMENT OFFICER. DEWATERING SYSTEMS SHOULD BE INSPECTED DAILY DURING OPERATIONAL PERIODS. THE ENFORCEMENT OFFICER, OR APPROVED REPRESENTATIVE, MUST BE PRESENT AT THE COMMENCEMENT OF DEWATERING ACTIVITIES.
- L. IF INSTALLED SOIL EROSION AND SEDIMENT CONTROL MEASURES DO NOT MINIMIZE SEDIMENT LEAVING THE DEVELOPMENT SITE, ADDITIONAL MEASURES SUCH AS ANIONIC POLYMERS OR FILTRATION SYSTEMS MAY BE REQUIRED BY THE ENFORCEMENT OFFICER.
- M. ALL TEMPORARY AND PERMANENT EROSION CONTROL MEASURES MUST BE MAINTAINED AND REPAIRED AS NEEDED. THE PROPERTY OWNER SHALL BE ULTIMATELY RESPONSIBLE FOR MAINTENANCE AND REPAIR.
- N. ALL TEMPORARY SEDIMENT CONTROL MEASURES SHALL BE REMOVED WITHIN 30 DAYS AFTER FINAL SITE STABILIZATION IS ACHIEVED OR AFTER THE TEMPORARY MEASURES ARE NO LONGER NEEDED.
- O. THE EROSION CONTROL MEASURES INDICATED ON THE PLANS ARE THE MINIMUM REQUIREMENTS. ADDITIONAL MEASURES MAY BE REQUIRED, AS DIRECTED BY THE ENGINEER, ENFORCEMENT OFFICER, OR OTHER GOVERNING AGENCY.

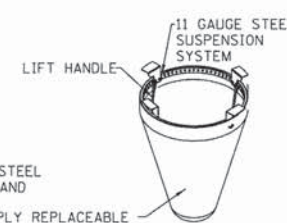
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TYPICAL CURB BOX INLET FILTER



TYPICAL FLAT/RECTANGULAR/ROLLED CURB INLET FILTER



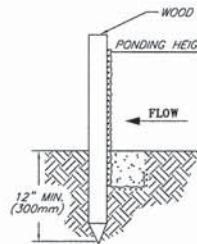
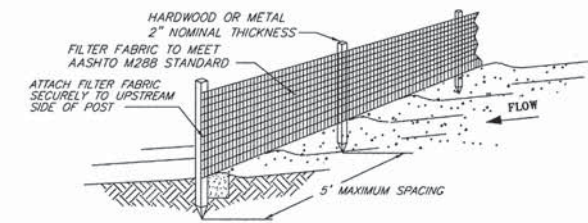
TYPICAL ROUND INLET FILTER

ACCEPTABLE MANUFACTURER'S AS LISTED BELOW 1. INLET & PIPE PROTECTION, INC. Naperville, IL 60564 847 722-0690  
2. MARATHON MATERIALS, INC. Plainfield, IL 60544 800-983-9493

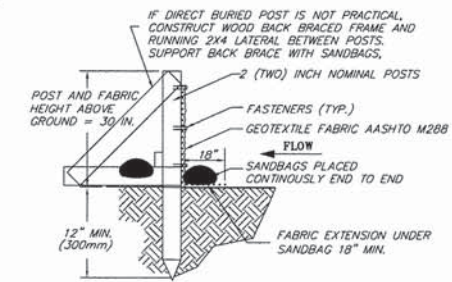
**MAINTENANCE**  
1. CLEAN OUT AFTER EVERY RAIN EVENT

Material Property	Test Method	Value (min. ave.)	
<b>&gt; Inner Filter Bag Specs (2ft<sup>3</sup> min vol)</b>			
Grab Tensile	ASTM D 4632	Non-Woven 100 lbs	Woven Mono 200 lbs
Puncture Strength	ASTM D 4833	65 lbs	90 lbs
Trapezoidal Tear	ASTM D 4535	45 lbs	75 lbs
UV Resistance	ASTM D 4355	70% at 500 hrs	90%
App Open Size (AOS)	ASTM D 4751	70 sieve (.212 mm)	40 sieve (.425 mm)
Permittivity	ASTM D 4491	2.0/sec.	2.1/sec
Water Flow Rate	ASTM D 4491	145 gpm/sqft.	145gpm/sqft
<b>&gt; Polyester Outer Reinforcement Bag Specifications</b>			
Weight	ASTM D 3776	4.55 oz/sqyd +/-15%	
Thickness	ASTM D 1777	.040 +/- .005	
<b>&gt; Frame Construction</b>			
A36 Structural Steel	ASTM A 576	Tensile Strength > 58,000 psi	
11 Gauge, Zinc Plated		Yield Strength > 36,000 psi	

**INLET FILTER BASKET DETAIL**



TRENCH DETAIL



INSTALLATION WITHOUT TRENCHING

1. SET POSTS AND EXCAVATE OR SLIT-TRENCH A 6-INCH DEEP TRENCH UPSLOPE ALONG THE LINE OF THE POST

2. ATTACH AASHTO GEOTEXTILE FILTER FABRIC TO EACH POST WITH A MINIMUM OF 3(THREE) FASTENERS PER POST AND EXTEND TO THE BOTTOM OF THE TRENCH. ACCEPTABLE FASTENERS INCLUDE STAPLES, ZIP-TIES, OR WIRE TIES.

3. BACKFILL AND COMPACT THE EXCAVATED SPOIL MATERIALS

**NOTES:**

1. SILT FENCE SHALL BE PLACED ON SLOPE CONTOURS TO MAXIMIZE PONDING EFFICIENCY.
2. INSPECT AND REPAIR FENCE AFTER EACH STORM EVENT AND REMOVE SEDIMENT WHEN NECESSARY. 9" (225mm) MAXIMUM RECOMMENDED STORAGE HEIGHT.
3. REMOVED SEDIMENT SHALL BE DEPOSITED TO AN AREA THAT WILL NOT CONTRIBUTE SEDIMENT OFF-SITE AND CAN BE PERMANENTLY STABILIZED.
4. FABRIC AND INSTALLATION SHALL MEET THE REQUIREMENTS OF ASSHTO STANDARD SPECIFICATION M-288-00.
5. SLICING METHOD IS PREFERRED.

PROPERTY	TEST PROCEDURE
Grab Elongation	
Machine Direction	ASTM D-4533 123 lbs
X-Machine Direction	ASTM D-4833 101 lbs
Permittivity	ASTM D-4491 0.05 sec <sup>-1</sup>
A.S.O.	ASTM D-4751 30 u.s. Sieve
UV Stability	ASTM D-4355 70%

**SILT FENCE INSTALLATION DETAIL**



FILE NAME = 4477-EROS - NOTES.dgn	USER NAME = mcolemn	DESIGNED -	REVISED -
GHA* 4477.025	PLOT SCALE = 1:1	DRAWN -	REVISED -
notes	PLOT DATE = 1/25/2016	CHECKED -	REVISED -
		DATE -	REVISED -

STATE OF ILLINOIS  
DEPARTMENT OF TRANSPORTATION

EROSION AND SEDIMENT CONTROL PLAN  
NOTES AND DETAILS

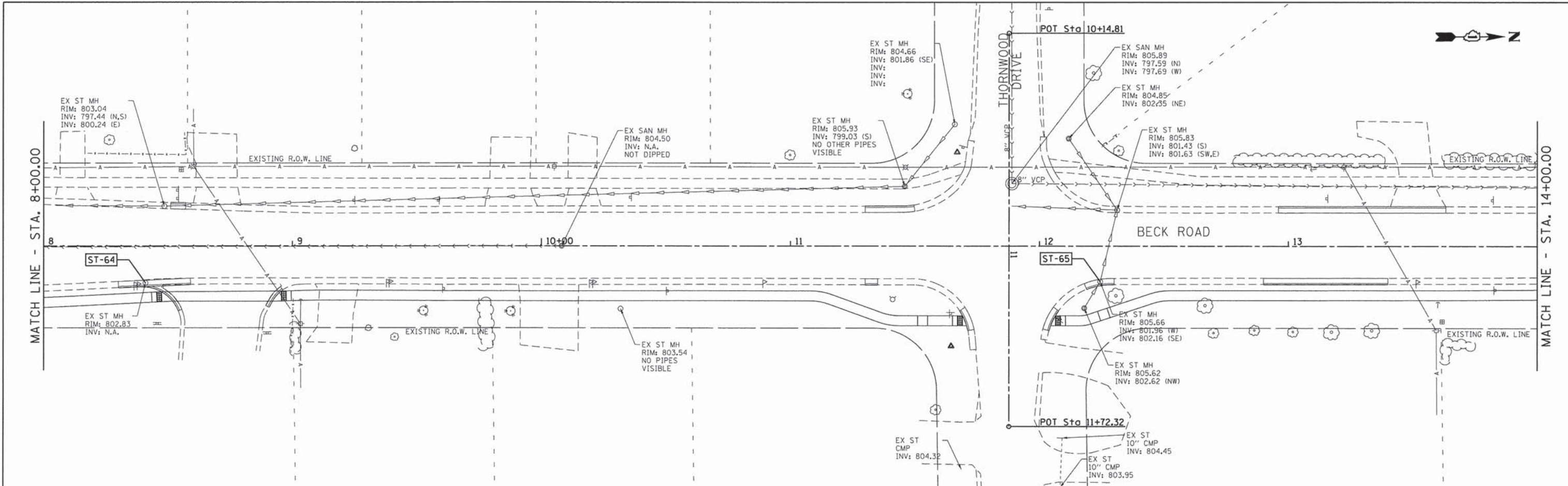
F.A.U. RTE. 160	SECTION 14-00030-00-R5	COUNTY LAKE	TOTAL SHEETS 213	SHEET NO. 94
CONTRACT NO. 61C68				
ILLINOIS FED. AID PROJECT				

STA. TO STA.



PLAN	DATE	BY
SURVEYED	2/10/14	GHA
PLOTTED	2/27/14	McColeman
NOTE BOOK	RT. OF WAY CHECKED	GHA
NO.	CADD FILE NAME	4477-DRAIN02.dgn

PROFILE	DATE	BY
SURVEYED	2/10/14	GHA
PLOTTED	2/27/14	McColeman
NOTE BOOK	STRUCTURE NOTATIONS CHECKED	GHA
NO.	STRUCTURE NOTATIONS CHECKED	GHA



STATION	STRUCTURE	TYPE	FRAME TYPE	STATION	OFFSET	DIRECTION	RIM ELEVATION
8+00	ST-64	EXISTING	ADJ.	8+40.95	14.87	RT	802.63
8+00	ST-65	EXISTING	ADJ.	12+24.39	14.33	RT	806.48

802.83	802.78	803.08	802.98	803.32	803.18	803.49	803.38	803.64	803.58	803.84	803.78	804.05	803.98	804.25	804.18	804.44	804.38	804.66	804.58	804.89	804.78	805.10	804.98	805.30	805.18	805.50	805.38	805.72	805.58	805.94	805.78	806.12	805.98	806.26	806.18	806.48	806.38	806.66	806.58	806.81	806.78	806.98	806.98	807.19	807.18	807.41	807.38	807.62	807.58
8+00	8+50	9+00	9+50	10+00	10+50	11+00	11+50	12+00	12+50	13+00	13+50	14+00																																					

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DESIGNED - MAC  
 DRAWN - ZCW  
 CHECKED - KLB  
 DATE -

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STATE OF ILLINOIS  
 DEPARTMENT OF TRANSPORTATION

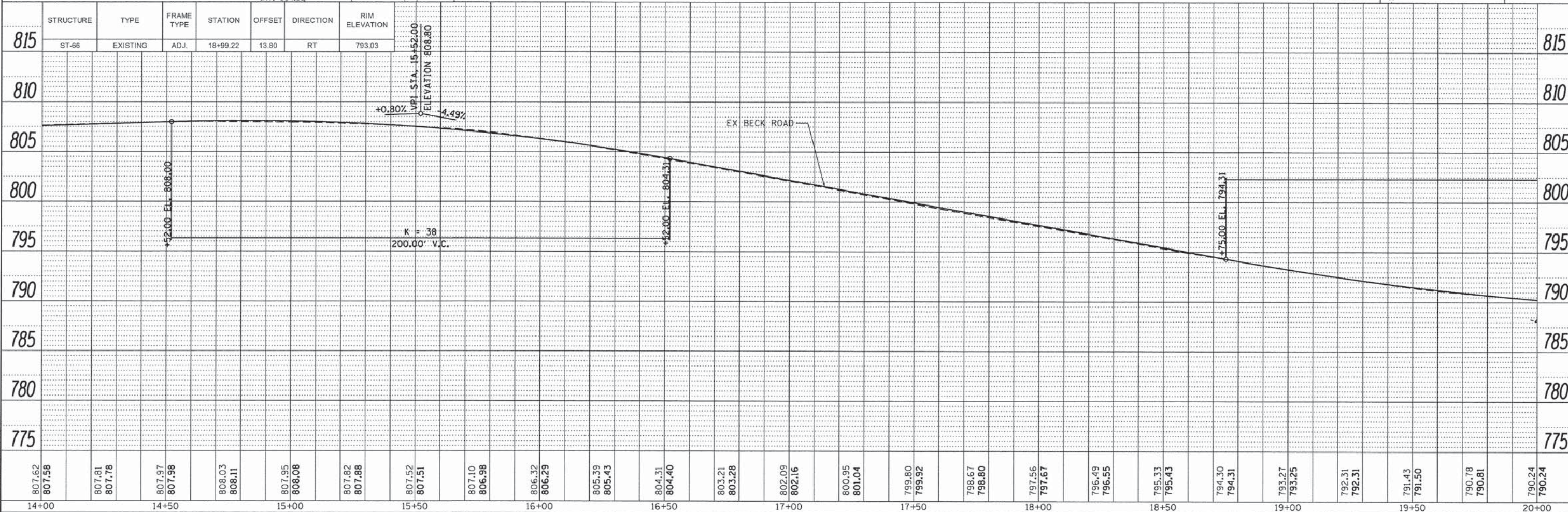
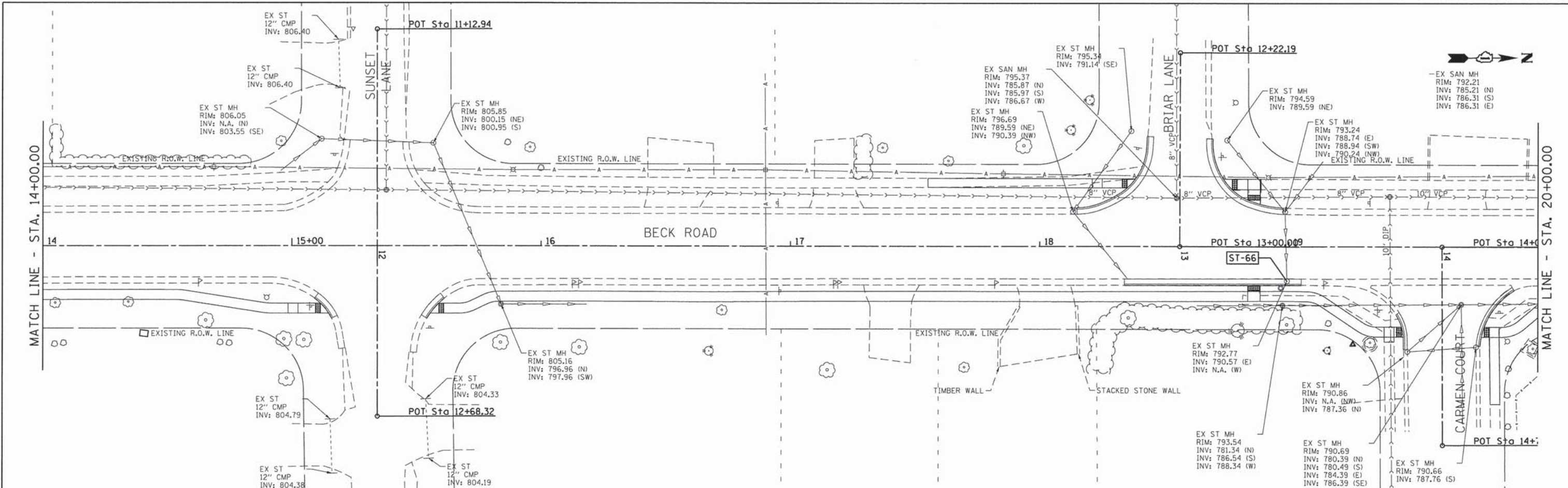
DRAINAGE & UTILITIES PLAN  
 BECK ROAD  
 SCALE: 1"=20'  
 SHEET 2 OF 19 SHEETS  
 STA. 8+00.00 TO STA. 14+00.00

F.A.U. RTE. 160  
 SECTION 14-00030-00-RS  
 COUNTY LAKE  
 TOTAL SHEETS 213  
 SHEET NO. 96  
 CONTRACT NO. 61C68  
 ILLINOIS FED. AID PROJECT



PLAN	DATE	BY
2/10/14	2/10/14	GHA
4477-DRAIN3.dgn		
4477-DRN03.dgn		
NO. _____		
NO. _____		
NO. _____		

PROF ILE	DATE	BY
2/10/14	2/10/14	GHA
4477-DRAIN3.dgn		
4477-DRN03.dgn		
NO. _____		
NO. _____		
NO. _____		



815	810	805	800	795	790	785	780	775																
807.62 807.58	807.81 807.78	807.97 807.98	808.03 808.11	807.95 808.08	807.82 807.88	807.52 807.51	807.10 806.98	806.32 806.29	805.39 805.43	804.31 804.40	803.21 803.28	802.09 802.16	800.95 801.04	799.80 799.92	798.67 798.80	797.56 797.67	796.49 796.55	795.33 795.43	794.30 794.31	793.27 793.25	792.31 792.31	791.43 791.50	790.78 790.81	790.24 790.24
14+00	14+50	15+00	15+50	16+00	16+50	17+00	17+50	18+00	18+50	19+00	19+50	20+00												

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 CHECKED - KLB  
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REVISED -  
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**STATE OF ILLINOIS**  
**DEPARTMENT OF TRANSPORTATION**

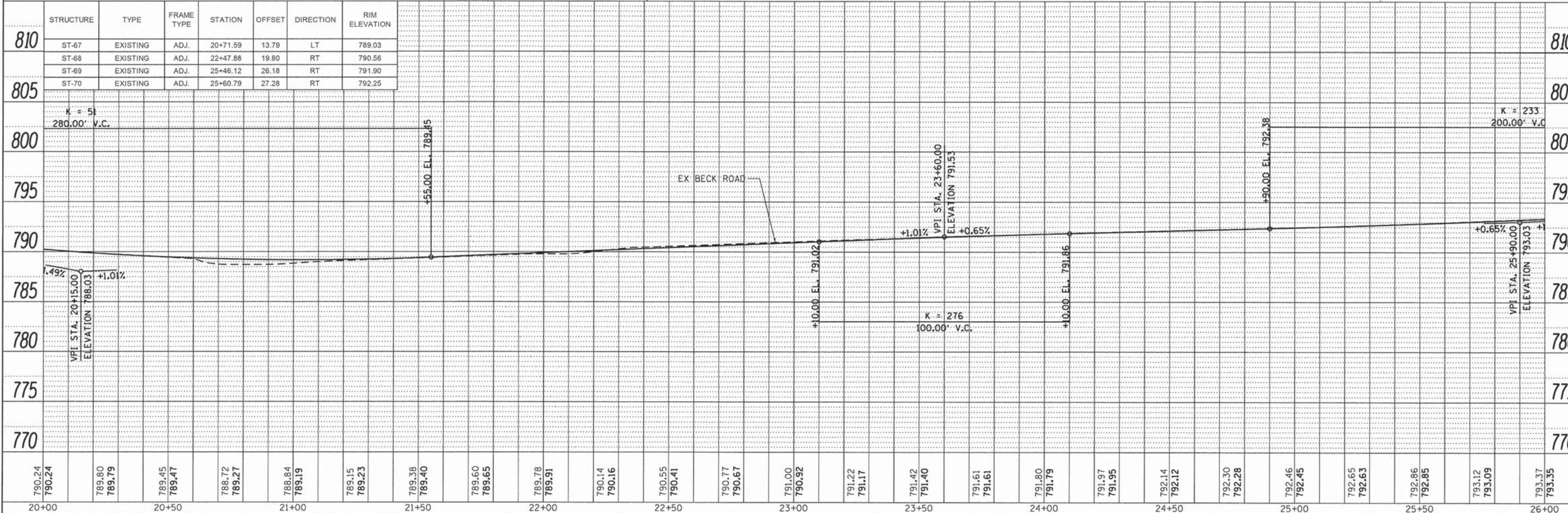
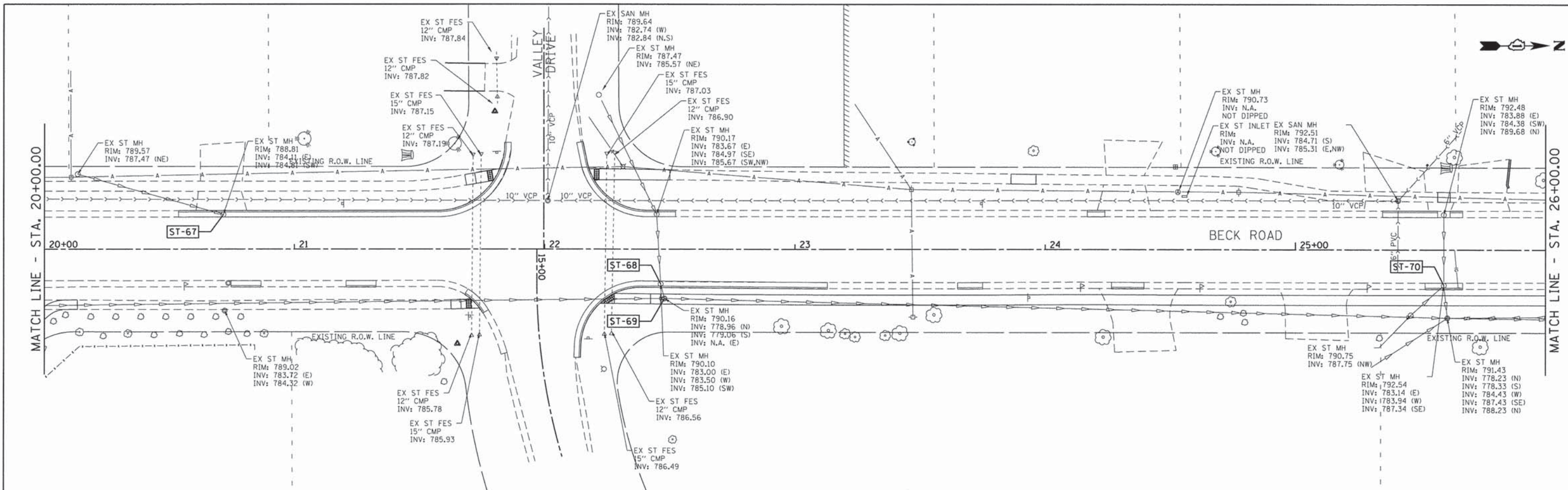
**DRAINAGE & UTILITIES PLAN**  
**BECK ROAD**  
 SCALE: 1"=20'  
 SHEET 3 OF 19 SHEETS  
 STA. 14+00.00 TO STA. 20+00.00

F.A.U. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
160	14-00030-00-RS	LAKE	213	97

CONTRACT NO. 61C68  
 ILLINOIS FED. AID PROJECT

PLAN	DATE	2/10/24
BY	CHA	4477-DRAIN04.dgn
PROJECT	NO.	4477-DRAIN04
DESCRIPTION	BY	4477-DRAIN04
PLotted	DATE	2/27/24
CHECKED	BY	4477-DRAIN04
NOTED	DATE	2/27/24
STRUCTURE NOTATIONS CHFD	NO.	

PROFILE	DATE	2/10/24
BY	CHA	4477-DRAIN04.dgn
PROJECT	NO.	4477-DRAIN04
DESCRIPTION	BY	4477-DRAIN04
PLotted	DATE	2/27/24
CHECKED	BY	4477-DRAIN04
NOTED	DATE	2/27/24
STRUCTURE NOTATIONS CHFD	NO.	

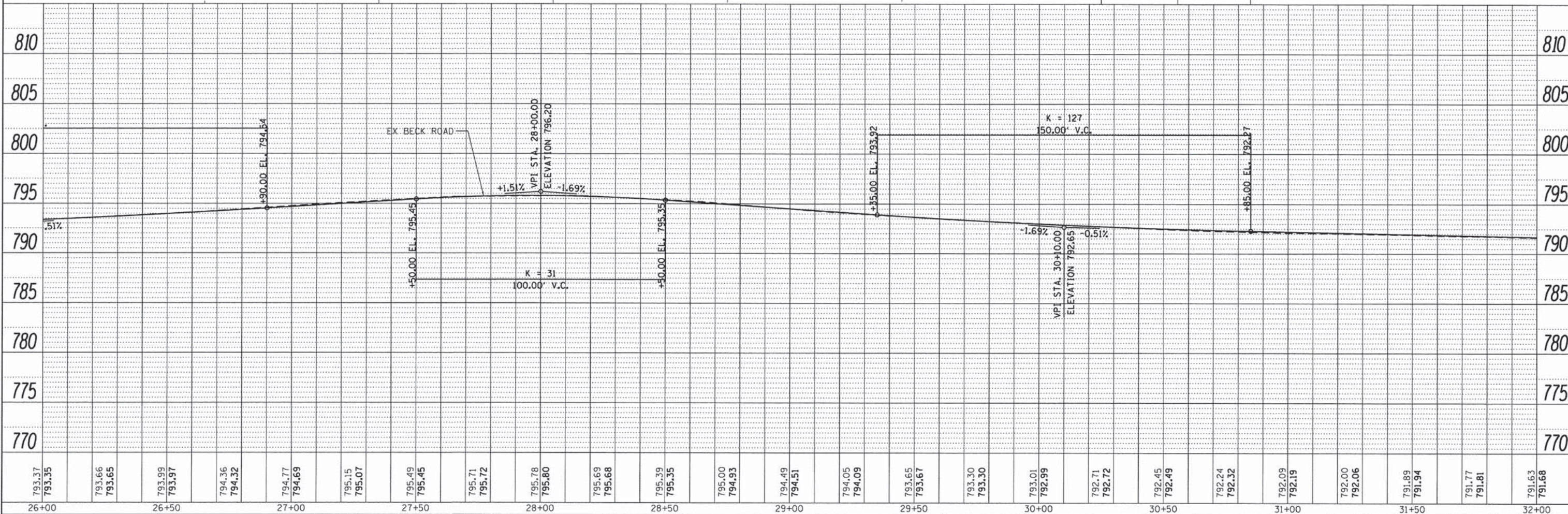
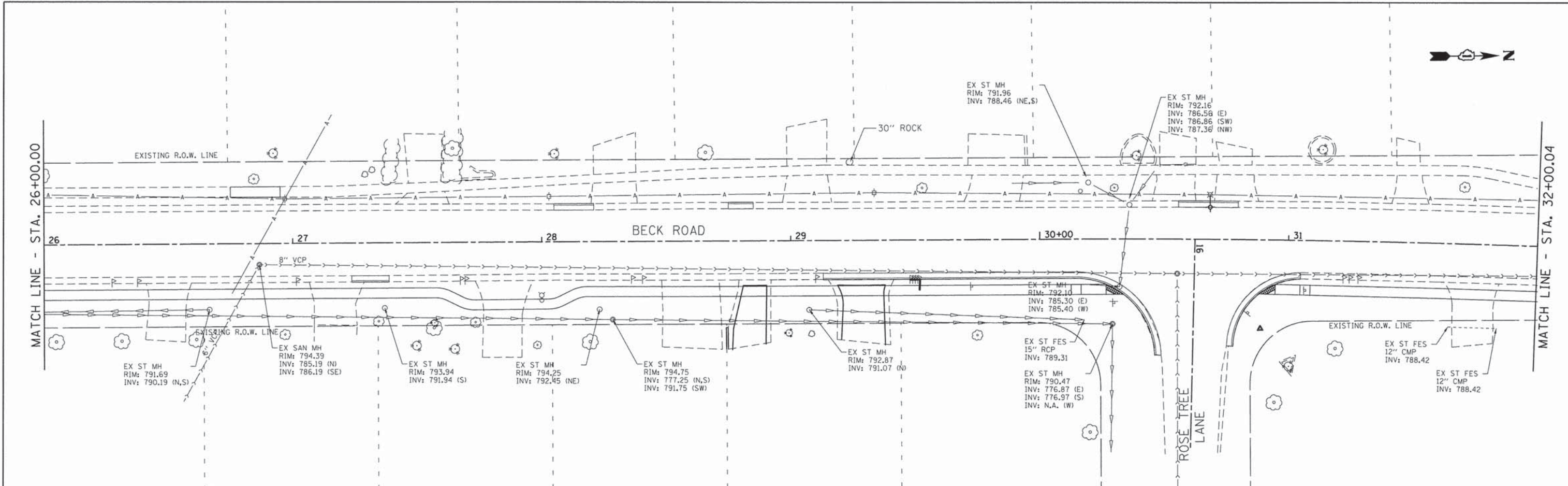


FILE NAME = 4477-DRAIN04.dgn	USER NAME = mcoleman	DESIGNED - MAC	REVISED -	STATE OF ILLINOIS DEPARTMENT OF TRANSPORTATION	DRAINAGE & UTILITIES PLAN BECK ROAD		F.A.U. RTE. 160	SECTION 14-00030-00-RS	COUNTY LAKE	TOTAL SHEETS 213	SHEET NO. 98	
PLOT SCALE = 1/2"=20'	PLOT DATE = 1/25/2016	DRAWN - ZCW	REVISED -		SCALE: 1"=20' SHEET 4 OF 19 SHEETS STA. 20+00.00 TO STA. 26+00.00		CONTRACT NO. 61C68		ILLINOIS FED. AID PROJECT			
Default		CHECKED - KLB	REVISED -									
		DATE -	REVISED -									



PLAN	DATE	BY
SURVEYED	2/10/14	GHA
PLOTTED	2/27/14	PROJECTIONS
NOTE BOOK	BT, OP WAY CHECKED	GHA
NO.	CAD FILE NAME	GHA
	4477-DRAIN05.dgn	

PROFILE	DATE	BY
SURVEYED	2/10/14	GHA
PLOTTED	2/27/14	PROJECTIONS
NOTE BOOK	BT, NOTED	GHA
NO.	STRUCTURE NOTATION CHYD	GHA



793.37 793.35	793.66 793.65	793.99 793.97	794.36 794.32	794.77 794.69	795.15 795.07	795.49 795.45	795.71 795.72	795.78 795.80	795.69 795.68	795.39 795.35	795.00 794.93	794.49 794.51	794.05 794.09	793.65 793.67	793.30 793.30	793.01 792.99	792.71 792.72	792.45 792.49	792.24 792.32	792.09 792.19	792.00 792.06	791.89 791.94	791.77 791.81	791.63 791.68
26+00	26+50	27+00	27+50	28+00	28+50	29+00	29+50	30+00	30+50	31+00	31+50	32+00												

FILE NAME = 4477-DRAIN05.dgn  
GHA\* 4477.025  
Default

USER NAME = mcolemn  
PLOT SCALE = 1/20  
PLOT DATE = 1/25/2016

DESIGNED - MAC  
DRAWN - ZCW  
CHECKED - KLB  
DATE -

REVISED -  
REVISED -  
REVISED -  
REVISED -

STATE OF ILLINOIS  
DEPARTMENT OF TRANSPORTATION

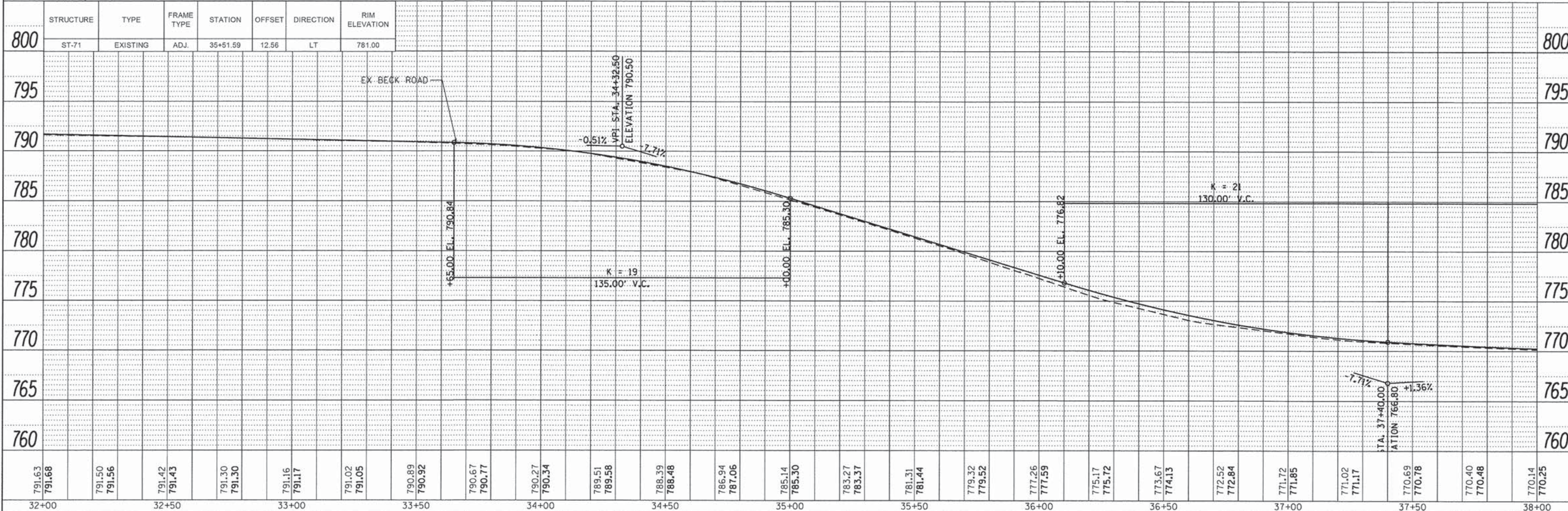
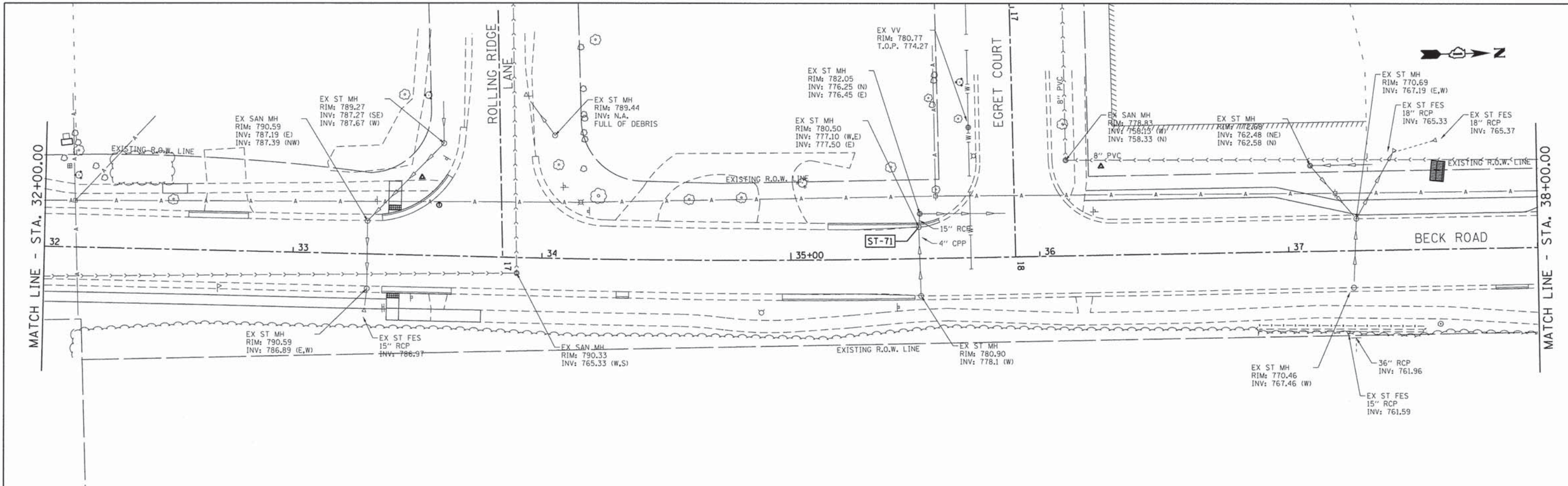
DRAINAGE & UTILITIES PLAN  
BECK ROAD

SCALE: 1"=20' SHEET 5 OF 19 SHEETS STA. 26+00.00 TO STA. 32+00.00

F.A.U. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
160	14-00030-00-RS	LAKE	213	99
CONTRACT NO. 61C68				
ILLINOIS FED. AID PROJECT				

PLAN	SURVEYED	DATE
NOTE BOOK	PLOTTED	BY
NO.	CHECKED	BY
	PI. OF WAY CHECKED	BY
	CARD FILE NAME	BY

PROFILE	SURVEYED	DATE
NOTE BOOK	PLOTTED	BY
NO.	CHECKED	BY
	PI. OF WAY CHECKED	BY
	STRUCTURE NOTATION CHECKED	BY



**GHA GEWALT HAMILTON ASSOCIATES, INC.**

FILE NAME = 4477-DRAIN06.dgn  
GHA# 4477.025  
Default

USER NAME = mcoleman  
PLOT SCALE = 1/20.0014  
PLOT DATE = 1/25/2016

DESIGNED - MAC  
DRAWN - ZCW  
CHECKED - KLB  
DATE -

REVISED -  
REVISED -  
REVISED -  
REVISED -

**STATE OF ILLINOIS  
DEPARTMENT OF TRANSPORTATION**

**DRAINAGE & UTILITIES PLAN  
BECK ROAD**

SCALE: 1"=20' SHEET 6 OF 19 SHEETS STA. 32+00.00 TO STA. 38+00.00

F.A.U. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
160	14-00030-00-RS	LAKE	213	100
CONTRACT NO. 61C68				
ILLINOIS FED. AID PROJECT				