F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
326	13-00026-00-CH	KANE	107	1
	ILLINOIS	CONTRACT NO. 61E52		

11-08-2019 LETTING ITEM 066

FEDERAL AID PROGRAM ENGINEER: CARMEN E. RAMOS, P.E., SCHAUMBURG, IL

STATE OF ILLINOIS

DEPARTMENT OF TRANSPORTATION

PLANS FOR PROPOSED FEDERAL–AID HIGHWAY

FAP 520 (BLISS ROAD) AND FAU 2305 (WHEELER ROAD) AT FAP 326 (ILLINOIS ROUTE 47) INTERSECTION IMPROVEMENT

SECTION 13–00026–00–CH

PROJECT NUMBER: SVP2(110)

VILLAGE OF SUGAR GROVE

KANE COUNTY

C–91–290–14

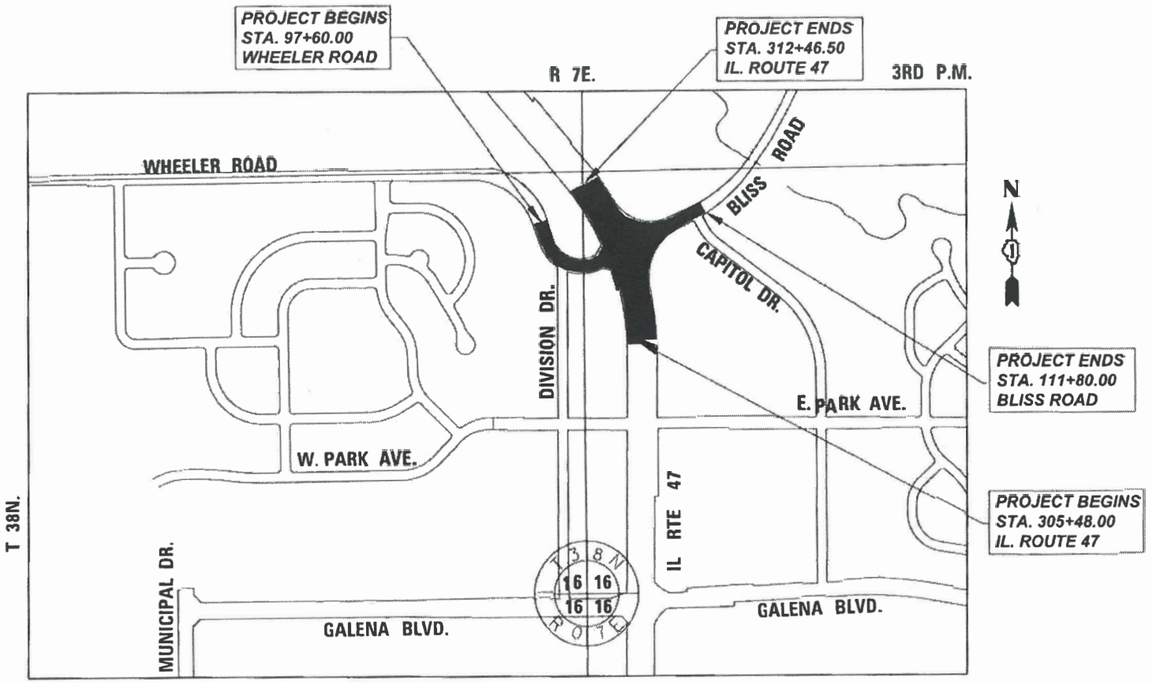
LOCATION OF SECTION INDICATED THUS: –

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

FAP 326 ILLNOIS ROUTE 47
OTHER PRINCIPAL ARTERIAL
ADT: 18,700 (2017)
ADT: 35,000 (2040)
POSTED SPEED: 45 MPH
DESIGN SPEED: 50 MPH

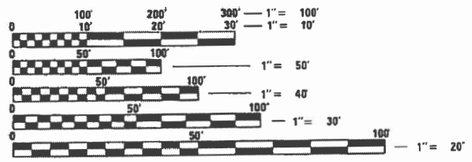
FAP 520 BLISS ROAD
MINOR ARTERIAL
ADT: 8,560 (2017)
ADT: 11,000 (2040)
POSTED SPEED: 40 MPH
DESIGN SPEED: 40 MPH

FAU 2305 WHEELER ROAD
MAJOR COLLECTOR
ADT: 1,220 (2017)
ADT: 8,000 (2040)
POSTED SPEED: 40 MPH
DESIGN SPEED: 40 MPH



SUGAR GROVE TOWNSHIP LOCATION MAP (SCALE 1" = 500')

TOTAL GROSS AND NET LENGTH OF PROJECT = 2,119 FEET (0.401 MILES)



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.

Call Before You Dig
JULIE
ILLINOIS ONE-CALL SYSTEM
Simply Call 811

CONTRACT NO. 61E52

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

APPROVED FEBRUARY 6 2018 2019
VILLAGE OF SUGAR GROVE, VILLAGE PRESIDENT

PASSED 2/7/2019 2018 2019
DISTRICT 1 ENGINEER OF LOCAL ROADS & STREETS

RELEASING FOR BID BASED ON LIMITED REVIEW February 7 2018 2019
REGIONAL ENGINEER

DATE: Feb. 6, 2019
COLLEEN C. JALTUCH
LICENSE EXPIRES: NOVEMBER 30, 2019

COLLEEN C. JALTUCH
062-053359
LICENSED PROFESSIONAL ENGINEER
OF
ILLINOIS
SEAL

Engineering Enterprises, Inc.
CONSULTING ENGINEERS
52 Wheeler Road
Sugar Grove, Illinois 60554
Phone: (630) 466–6700

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Plotted: 10/2/2018 3:50:04 PM By: jschmidt

Path: H:\SUGAR\Proj\SGV108-Wheeler\Dgn\ Fase Eng\SGV108-Cvr.dgn

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SUPPLEMENTAL LEGEND

SEE IDOT HIGHWAY STANDARD 000001-06 FOR ADDITIONAL INFORMATION

- PAVEMENT REMOVAL
- PATCHING
- HOT-MIX ASPHALT SURFACE REMOVAL
- EXISTING AGGREGATE SHOULDER, AND SIDEWALK TO BE REMOVED
- DRIVEWAY PAVEMENT REMOVAL
- HOT-MIX ASPHALT SURFACE REMOVAL - BUTT JOINT
- PROPOSED CURB OR CURB & GUTTER
- EXISTING CURB OR CURB & GUTTER

STORM SEWER STRUCTURE AND PIPE NOTATION

STRUCTURE TYPE	CB TY C, 2' DIA.	DIAMETER
FRAME & GRATE/LID TYPE	W/ TY IIV FR & GR	
	113+50, 25.58' LT	STATION & OFFSET
TOP OF CURB (TC) ELEVATION	TC 724.64	
OR RIM	INV N,S 720.53, 12"	INVERT DIRECTION, ELEVATION & SIZE

PIPE DIAMETER	12" SS TY 1	SEWER TYPE
MATERIAL	RCCP CL IV	MATERIAL CLASS
LENGTH	8' @ 1.00%	SLOPE
TRENCH BACKFILL QUANTITY	TB 1.3 CY 2'	TRENCH BACKFILL LENGTH

REMOVAL NOTATION

- X — DENOTES STRUCTURE TO BE REMOVED
- X — TREE REMOVAL

STRUCTURE ADJUSTMENT / REMOVAL NOTATION

"ADJ" FOR ADJUST — AJD 1C — "C FOR CLOSED, "1" FRAME/LID TYPE

X — DENOTES STRUCTURE TO BE REMOVED

PAVEMENT DESIGN INFORMATION

IL. ROUTE 47	BLISS ROAD	WHEELER ROAD
HOT-MIX ASPHALT PAVEMENT	HOT-MIX ASPHALT PAVEMENT	HOT-MIX ASPHALT PAVEMENT
CLASS I	CLASS II	CLASS II
80,000 LB	80,000 LB	80,000 LB
FOUR LANE URBAN	TWO LANE URBAN	TWO LANE URBAN
2026 ADT 25,577	2026 ADT 9,277	2026 ADT 4,177
PV 23,556 (92.1%)	PV 8,906 (96.0%)	PV 4,039 (96.7%)
SU 870 (3.4%)	SU 278 (3.0%)	SU 138 (3.3%)
MU 1,151 (4.5%)	MU 93 (1.0%)	MU 0 (0.0%)
TF = 6.06 (ACTUAL)	TF = 0.68 (ACTUAL)	TF = 0.16 (ACTUAL)
TF = 6.06 (USED)	TF = 0.68 (USED)	TF = 0.16 (USED)
SSR POOR	SSR POOR	SSR POOR
AC MIX TEMP 75°	AC MIX TEMP 78°	AC MIX TEMP 78°
PG 76-22	PG 64-22	PG 64-22
MODULUS 690 KSI	MODULUS 690 KSI	MODULUS 690 KSI
THICKNESS REQUIRED = 11 1/4"	THICKNESS REQUIRED = 9"	THICKNESS REQUIRED = 6"
THICKNESS PROVIDED = 11 1/4"	THICKNESS PROVIDED = 9"	THICKNESS PROVIDED = 6 3/4"

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VILLAGE OF SUGAR GROVE
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SUGAR GROVE, IL 60554

DESIGNED	CMF	REVISED -
DRAWN	JPS	REVISED -
CHECKED	TVW	REVISED -
DATE	08/11/2017	REVISED -

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

BLISS ROAD / WHEELER ROAD AT ILLINOIS ROUTE 47
INDEX OF SHEETS, HIGHWAY STANDARDS AND LEGEND

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

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
326	13-00026-00-CH	KANE	107	2
		CONTRACT NO. 61E52		
	ILLINOIS FED. AID PROJECT			

GENERAL NOTES

SPECIFICATIONS, STANDARDS, AND SPECIAL PROVISIONS

ALL CONSTRUCTION SHALL BE DONE IN ACCORDANCE WITH THE "STANDARD SPECIFICATIONS FOR ROAD AND BRIDGE CONSTRUCTION" ADOPTED APRIL 1, 2016 (HEREINAFTER REFERRED TO AS THE STANDARD SPECIFICATIONS), THE LATEST EDITION OF THE "ILLINOIS MANUAL ON UNIFORM TRAFFIC CONTROL DEVICES FOR STREETS AND HIGHWAYS", THE "STANDARD SPECIFICATIONS FOR WATER & SEWER MAIN CONSTRUCTION IN ILLINOIS", SEVENTH EDITION, THE CODES AND ORDINANCES OF THE VILLAGE OF SUGAR GROVE, ILLINOIS, THE DETAILS IN THE PLANS AND THE SPECIAL PROVISIONS INCLUDED IN THE CONTRACT DOCUMENTS.

NO SUBSTITUTIONS OR VARIANCES WILL BE PERMITTED TO ANY STANDARD NOTES OR ORDINANCES UNLESS APPROVED OTHERWISE IN WRITING PRIOR TO COMMENCING CONSTRUCTION ACTIVITY.

ALL TRAFFIC CONTROL AND OTHER ADVISORY SIGNS NEEDED FOR CONSTRUCTION ARE TO BE FURNISHED BY THE CONTRACTOR IN ACCORDANCE WITH ARTICLE 107.14 OF THE STANDARD SPECIFICATIONS.

THE CONTRACTOR SHALL AT ALL TIMES PROVIDE PROTECTION FOR TRAFFIC AS CALLED FOR IN THE APPLICATION OF TRAFFIC CONTROL DEVICES, THE STANDARD SPECIFICATIONS, THE SPECIAL PROVISIONS AND THE PLANS

UTILITIES

THE CONTRACTOR SHALL COOPERATE WITH THE OWNER IF ANY UTILITY IMPROVEMENTS ARE REQUIRED WITHIN THE DURATION OF THE CONTRACT.

THE CONTRACTOR SHALL BE RESPONSIBLE FOR CONTACTING THE OWNERS OF ALL UTILITIES PRIOR TO CONSTRUCTION TO DETERMINE THE LOCATION OF ALL EXISTING AND PROPOSED UTILITY EQUIPMENT. THE CONTRACTOR SHALL COOPERATE WITH ALL UTILITY OWNERS AS PROVIDED FOR IN THE STANDARD SPECIFICATIONS IF UTILITY RELOCATION, ADJUSTMENT, OR PROTECTION IS NECESSARY.

IF EXISTING UTILITY LINES OF ANY NATURE ARE ENCOUNTERED WHICH CONFLICT IN LOCATION WITH NEW CONSTRUCTION, THE CONTRACTOR SHALL NOTIFY THE ENGINEER SO THAT THE CONFLICT MAY BE RESOLVED.

UNDER NO CIRCUMSTANCES SHALL THE CONTRACTOR OPERATE ANY VALVES OR HYDRANTS.

STAKING

THE CONTRACTOR SHALL PROTECT AND CAREFULLY PRESERVE ALL SECTION OR SUBSECTION MONUMENTS, PROPERTY CORNERS, AND REFERENCE MARKERS UNTIL THE OWNER, THE OWNER'S AGENT, OR AN AUTHORIZED SURVEYOR HAS WITNESSED OR OTHERWISE REFERENCED THEIR LOCATIONS.

ALL RADII FOR PROPOSED CURB AND GUTTER ARE TO THE EDGE OF PAVEMENT, UNLESS OTHERWISE NOTED. CURB AND GUTTER ELEVATIONS SHOWN AT POINTS OF CURVE, ETC., ARE EDGE OF PAVEMENT UNLESS OTHERWISE NOTED.

STRUCTURE OFFSET LOCATIONS GIVEN ON THE DETAILED PLANS ARE TO THE FOLLOWING POINTS:

A) STRUCTURES FALLING IN THE CURB LINE ARE MEASURED TO THE BACK OF CURB

B) ALL OTHER STRUCTURES ARE MEASURED TO THE CENTER OF THE STRUCTURE

ALL ELEVATIONS ARE NGVD 29 DATUM, ESTABLISHED FROM THE KANE COUNTY GEODETIC SURVEY BENCHMARK NETWORK.

ALL OFFSET LOCATIONS GIVEN ON THE DETAILED PLANS FOR STRUCTURES, EDGE OF PAVEMENT, ETC., ARE FROM THE CENTERLINE AS SHOWN ON THE PLANS.

SEWERS AND WATER MAINS

FRAME ELEVATIONS GIVEN ON THE PLANS ARE ONLY TO ASSIST THE CONTRACTOR IN DETERMINING THE APPROXIMATE OVERALL HEIGHT OF THE STRUCTURE. FRAMES ON ALL STRUCTURES WILL BE ADJUSTED TO THE FINAL ELEVATION AND CROSS SLOPE OF THE AREA IN WHICH THEY ARE LOCATED. ALL FINAL ADJUSTMENTS OF FRAMES WILL BE ACCOMPLISHED BY THE USE OF CONCRETE ADJUSTING RINGS SET IN BUTYL ROPE JOINT SEALANT; MORTAR JOINTS WILL NOT BE ALLOWED. HEIGHT OF ADJUSTING RINGS SHALL NOT EXCEED EIGHT INCHES (8").

BACKFILL

ALL TRENCH BACKFILL QUANTITIES FOR STORM SEWER, SANITARY SEWER, AND WATER MAIN HAVE BEEN COMPUTED AND SHALL BE PAID FOR IN ACCORDANCE WITH THE STATE OF ILLINOIS, DEPARTMENT OF TRANSPORTATION, DIVISION OF HIGHWAYS, BUREAU OF CONSTRUCTION TRENCH BACKFILL TABLE.

STORM SEWER, SANITARY SEWER, AND WATER MAIN SHALL BE BACKFILLED IN ACCORDANCE WITH ARTICLE 550.07, METHOD 1 ONLY, OR AS DIRECTED BY THE ENGINEER, WITH THE FOLLOWING MODIFICATIONS.

TRENCH BACKFILL SHALL BE GRADATION CA-6. THE FINAL TRENCH BACKFILL SHALL BE PLACED IN 6" LIFTS AND SHALL BE COMPACTED IN PLACE TO NINETY FIVE PERCENT (95%) OF MAXIMUM DENSITY AT OPTIMUM MOISTURE AS DETERMINED BY THE MODIFIED PROCTOR TEST.

SIGNS

ALL SIGNS SHALL BE ERECTED IN STRICT CONFORMANCE WITH SECTION 720 OF THE STANDARD SPECIFICATIONS AND BY STATE PREQUALIFIED CONTRACTOR PERSONNEL SUCH AS A SUBCONTRACTOR THAT SPECIALIZES IN TRAFFIC CONTROL AND SIGN PLACEMENT. TO VERIFY THIS OPERATION IS PERFORMED CORRECTLY THERE WILL BE A WALK THROUGH ON THE JOB WITH THE ENGINEER, AND STATE PERSONNEL AS PART OF THE OVERALL PUNCH LIST.

ALL WORK INVOLVING SIGNS SHALL BE GOVERNED BY THE FOLLOWING REQUIREMENTS:

1. SIGNS SHALL NOT BE MOVED UNTIL PROGRESS OF WORK NECESSITATES IT
2. THE CONTRACTOR WILL BE REQUIRED TO TEMPORARILY RESET ALL SIGNS THAT INTERFERE WITH THEIR WORK DURING CONSTRUCTION OPERATIONS. ALL SUCH SIGNS MUST BE MAINTAINED STRAIGHT AND CLEAN FOR THE DURATION OF THE TEMPORARY SETTING. THE SIGNS MUST BE RE-ERECTED AT A TEMPORARY LOCATION AND BE VISIBLE TO TRAFFIC FOR WHICH IT IS INTENDED.
3. ALL SIGNS SHALL BE INSTALLED OR RELOCATED IN PERMANENT LOCATIONS AS SHOWN ON THE PLANS ONCE THE ROADWAY IS COMPLETED.
4. ALL REMOVED SIGNS WILL BE RETURNED TO THE VILLAGE (601 HEARTLAND DRIVE, SUGAR GROVE, IL) OR STATE, AS APPLICABLE.
5. LONGER POSTS MAY BE REQUIRED AT TEMPORARY OR PERMANENT SIGN LOCATIONS TO MAINTAIN PROPER SIGN HEIGHT.

MISCELLANEOUS

WHEN REMOVING CURB AND GUTTER, OR ANY OTHER STRUCTURES, THE USE OF ANY CONCRETE BREAKERS WHICH MIGHT DAMAGE THE UNDERGROUND PUBLIC OR PRIVATE UTILITIES, OR CAUSE DAMAGE TO PUBLIC OR PRIVATE STRUCTURES, WILL NOT BE PERMITTED.

TO PROTECT EXISTING TREES AND UTILITY POLES, THE CONTRACTOR SHALL HAND FORM CURB AND GUTTER AT LOCATIONS DIRECTED BY THE ENGINEER.

THE THICKNESS OF ASPHALT MIXTURES SHOWN IN THE PLANS ARE NOMINAL. DEVIATIONS MAY OCCUR DUE TO IRREGULARITIES IN THE SURFACES OR BASES ON WHICH THE ASPHALT MIXTURES ARE TO BE PLACED.

PROTECTIVE COAT SHALL BE APPLIED TO ALL GUTTER FLAGS, FACE AND TOP OF CURB, PCC SIDEWALK, AND AS DIRECTED BY THE ENGINEER.

IT IS THE CONTRACTOR'S RESPONSIBILITY TO ASCERTAIN EXISTING FIELD CONDITIONS BEFORE BIDDING ON THIS CONTRACT.

WHERE NEW WORK MEETS EXISTING FEATURES TO REMAIN, THE CONTRACTOR SHALL FIELD CHECK ALL DIMENSIONS AND ELEVATIONS BEFORE PROCEEDING WITH CONSTRUCTION. IMMEDIATELY NOTIFY THE ENGINEER OF ANY DISCREPANCIES.

THE CONTRACTOR SHALL COMPLY WITH ALL STATE REGULATIONS REGARDING AIR, WATER AND NOISE POLLUTION. THE CONTRACTOR IS PROHIBITED FROM BURNING ANY MATERIAL WITHIN OR ADJACENT TO THE IMPROVEMENT.

THE CONTRACTOR SHALL PREPARE THE SUBGRADE IN ACCORDANCE WITH ARTICLE 301.03 OF THE STANDARD SPECIFICATIONS PRIOR TO THE REMOVAL OF ANY UNSTABLE MATERIALS.

THE ENGINEER AND VILLAGE ARE NOT RESPONSIBLE FOR THE CONSTRUCTION MEANS, METHODS, TECHNIQUES, SEQUENCES OR PROCEDURES, TIME OF PERFORMANCE, PROGRAMS OR FOR ANY SAFETY PRECAUTIONS USED BY THE CONTRACTOR. THE CONTRACTOR IS SOLELY RESPONSIBLE FOR EXECUTION OF THEIR WORK IN ACCORDANCE WITH THE CONTRACT DOCUMENTS AND SPECIFICATIONS.

TWO WEEKS PRIOR TO PLACEMENT OF PERMANENT PAVEMENT MARKINGS, THE ENGINEER SHALL CONTACT DON CHIARUGI, AREA TRAFFIC FIELD ENGINEER, AT don.chiarugi@illinois.gov.

THE CONTRACTOR SHALL CONTACT THE IDOT TRAFFIC CONTROL SUPERVISOR, AT (847) 705-4470 A MINIMUM OF 72 HOURS IN ADVANCE OF BEGINNING WORK.

THE SUBGRADE STABILITY SHALL BE VERIFIED BY PROOF ROLLING WITH A FULLY LOADED TANDEM-AXLE TRUCK.

AGGREGATE SUBGRADE IMPROVEMENT (CU YD) HAS BEEN PROVIDED FOR USE AT THE LOCATIONS INDICATED FOR SOILS THAT TEND TO BE UNSTABLE AND/OR UNSUITABLE. THE ACTUAL NEED FOR REMOVAL AND REPLACEMENT WITH ASI WILL BE DETERMINED IN THE FIELD AT THE TIME OF CONSTRUCTION BY THE GEOTECHNICAL ENGINEER. ALL POTENTIALLY UNSTABLE SOILS SHOULD BE TESTED WITH A STATIC OR DYNAMIC CONE PENETROMETER AND TREATED IN ACCORDANCE WITH ARTICLE 301.04 OF THE SSRBC AND IDOT SUBGRADE STABILITY MANUAL. IF UNSTABLE AND/OR UNSUITABLE SOILS ARE NOT ENCOUNTERED, THEN THE QUANTITY SHALL BE DEDUCTED AND NO ADDITIONAL COMPENSATION WILL BE DUE TO THE CONTRACTOR.

ANY AGGREGATE SUBGRADE IMPROVEMENT CONTAMINATED AND/OR DAMAGED BY THE CONTRACTOR'S VEHICLES AND/OR EQUIPMENT IS TO BE REMOVED AND REPLACED AS DIRECT BY THE ENGINEER AT CONTRACTOR EXPENSE.

PIPE UNDERDRAINS SHALL BE INSTALLED ACCORDING TO SECTION 601 OF THE SSRBC AND STANDARD 601001-05. TOP OF PIPE UNDERDRAINS SHALL BE PLACED MINIMUM 6" BELOW THE AGGREGATE SUBGRADE IMPROVEMENT LAYER. THE COST OF MAKING PIPE UNDERDRAINS CONNECTIONS TO DRAINAGE STRUCTURES SHALL BE INCLUDED IN THE COST OF THE PIPE UNDERDRAINS.

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DESIGNED - CMF	REVISED -	
DRAWN - JPS	REVISED -	
CHECKED - TVW	REVISED -	
DATE - 08/11/2017	REVISED -	

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

BLISS ROAD / WHEELER ROAD AT ILLINOIS ROUTE 47
GENERAL NOTES

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

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
326	13-00026-00-CH	KANE	107	3
		CONTRACT NO. 61E52		
	ILLINOIS FED. AID PROJECT			

SUMMARY OF QUANTITIES

		CODE NUMBER	ITEM	UNIT	TOTAL QUANTITY	ROADWAY 75% FEDERAL 12.5% STATE 12.5% LOCAL 0004	TRAFFIC SIGNALS 75% FEDERAL 12.5% STATE 12.5% LOCAL 0021	TRAINEES 75% FEDERAL 12.5% STATE 12.5% LOCAL 0042
		20100110	TREE REMOVAL (6 TO 15 UNITS DIAMETER)	UNIT	46	46		
		20100210	TREE REMOVAL (OVER 15 UNITS DIAMETER)	UNIT	16	16		
		20200100	EARTH EXCAVATION	CU YD	2,030	2,030		
		20201200	REMOVAL AND DISPOSAL OF UNSUITABLE MATERIAL	CU YD	300	300		
		20400800	FURNISHED EXCAVATION	CU YD	91	91		
	*	20800150	TRENCH BACKFILL	CU YD	252	252		
		21001000	GEOTECHNICAL FABRIC FOR GROUND STABILIZATION	SQ YD	900	900		
		21101505	TOPSOIL EXCAVATION AND PLACEMENT	CU YD	100	100		
		21101615	TOPSOIL FURNISH AND PLACE, 4"	SQ YD	10,190	10,190		
Δ		25000210	SEEDING, CLASS 2A	ACRE	2.25	2.25		
Δ		25000400	NITROGEN FERTILIZER NUTRIENT	POUND	190	190		
Δ		25000500	PHOSPHORUS FERTILIZER NUTRIENT	POUND	190	190		
Δ		25000600	POTASSIUM FERTILIZER NUTRIENT	POUND	190	190		
Δ		25100630	EROSION CONTROL BLANKET	SQ YD	10,190	10,190		
		28000250	TEMPORARY EROSION CONTROL SEEDING	POUND	400	400		
		28000305	TEMPORARY DITCH CHECKS	FOOT	10	10		
		28000400	PERIMETER EROSION BARRIER	FOOT	2,886	2,886		
		28000500	INLET AND PIPE PROTECTION	EACH	2	2		
		28000510	INLET FILTERS	EACH	22	22		
	*	30300001	AGGREGATE SUBGRADE IMPROVEMENT	CU YD	300	300		
	*	30300112	AGGREGATE SUBGRADE IMPROVEMENT 12"	SQ YD	4,190	4,190		
		31101200	SUBBASE GRANULAR MATERIAL, TYPE B 4"	SQ YD	230	230		
		35101600	AGGREGATE BASE COURSE, TYPE B 4"	SQ YD	320	320		
		35102000	AGGREGATE BASE COURSE, TYPE B 8"	SQ YD	1,800	1,800		
		40600275	BITUMINOUS MATERIALS (PRIME COAT)	POUND	11,110	11,110		
		40600290	BITUMINOUS MATERIALS (TACK COAT)	POUND	9,120	9,120		
		40600400	MIXTURE FOR CRACKS, JOINTS, AND FLANGEWAYS	TON	10	10		
		40603200	POLYMERIZED HOT-MIX ASPHALT BINDER COURSE, IL-4.75, N50	TON	640	640		
		40600982	HOT-MIX ASPHALT SURFACE REMOVAL - BUTT JOINT	SQ YD	183	183		
		40603085	HOT-MIX ASPHALT BINDER COURSE, IL-19.0, N70	TON	670	670		
		40603090	HOT-MIX ASPHALT BINDER COURSE, IL-19.0, N90	TON	550	550		
		40604060	HOT-MIX ASPHALT SURFACE COURSE, IL-9.5, MIX "D", N50	TON	195	195		
		40604062	HOT-MIX ASPHALT SURFACE COURSE, IL-9.5, MIX "D", N70	TON	770	770		
		40604172	POLYMERIZED HOT-MIX ASPHALT SURFACE COURSE, IL-9.5, MIX "E", N70	TON	690	690		
		40800050	INCIDENTAL HOT-MIX ASPHALT SURFACING	TON	20	20		
		42001300	PROTECTIVE COAT	SQ YD	1,260	1,260		
		42400200	PORTLAND CEMENT CONCRETE SIDEWALK 5 INCH	SQ FT	2,770	2,770		
		42400800	DETECTABLE WARNINGS	SQ FT	260	260		
		44000100	PAVEMENT REMOVAL	SQ YD	980	980		
		44000159	HOT-MIX ASPHALT SURFACE REMOVAL, 2 1/2"	SQ YD	5,790	5,790		
		44000200	DRIVEWAY PAVEMENT REMOVAL	SQ YD	305	305		
		44000500	COMBINATION CURB AND GUTTER REMOVAL	FOOT	870	870		
		44201733	CLASS D PATCHES, TYPE III, 7 INCH	SQ YD	40	40		
		44201735	CLASS D PATCHES, TYPE IV, 7 INCH	SQ YD	57	57		
		44201867	CLASS D PATCHES, TYPE III, 18 INCH	SQ YD	19	19		
		44201869	CLASS D PATCHES, TYPE IV, 18 INCH	SQ YD	33	33		

		CODE NUMBER	ITEM	UNIT	TOTAL QUANTITY	ROADWAY 75% FEDERAL 12.5% STATE 12.5% LOCAL 0004	TRAFFIC SIGNALS 75% FEDERAL 12.5% STATE 12.5% LOCAL 0021	TRAINEES 75% FEDERAL 12.5% STATE 12.5% LOCAL 0042
		48203029	HOT-MIX ASPHALT SHOULDERS, 8"	SQ YD	230	230		
		54213663	PRECAST REINFORCED CONCRETE FLARED END SECTIONS 18"	EACH	2	2		
		54213681	PRECAST REINFORCED CONCRETE FLARED END SECTIONS 36"	EACH	1	1		
		550A0050	STORM SEWERS, CLASS A, TYPE 1 12"	FOOT	90	90		
		550A0070	STORM SEWERS, CLASS A, TYPE 1 15"	FOOT	10	10		
		550A0090	STORM SEWERS, CLASS A, TYPE 1 18"	FOOT	124	124		
		550A0160	STORM SEWERS, CLASS A, TYPE 1 36"	FOOT	130	130		
		550A0340	STORM SEWERS, CLASS A, TYPE 2 12"	FOOT	223	223		
		550A0360	STORM SEWERS, CLASS A, TYPE 2 15"	FOOT	183	183		
		550A0380	STORM SEWERS, CLASS A, TYPE 2 18"	FOOT	194	194		
		550A0430	STORM SEWERS, CLASS A, TYPE 2 30"	FOOT	149	149		
		55100500	STORM SEWER REMOVAL 12"	FOOT	125	125		
		55100900	STORM SEWER REMOVAL 18"	FOOT	210	210		
		55101400	STORM SEWER REMOVAL 30"	FOOT	146	146		
		55103030	STORM SEWER REMOVAL, EQUIVALENT ROUND-SIZE 30"	FOOT	32	32		
Δ	*	56106600	ADJUSTING WATER MAIN 12"	FOOT	40	40		
Δ		56400100	FIRE HYDRANTS TO BE MOVED	EACH	2	2		
Δ	*	56400400	FIRE HYDRANTS TO BE RELOCATED	EACH	1	1		
		60108204	PIPE UNDERDRAINS, TYPE 2, 4"	FOOT	300	300		
		60200805	CATCH BASINS, TYPE A, 4'-DIAMETER, TYPE 8 GRATE	EACH	2	2		
		60201105	CATCH BASINS, TYPE A, 4'-DIAMETER, TYPE 11 FRAME AND GRATE	EACH	3	3		
		60201340	CATCH BASINS, TYPE A, 4'-DIAMETER, TYPE 24 FRAME AND GRATE	EACH	1	1		
		60204805	CATCH BASINS, TYPE A, 5'-DIAMETER, TYPE 11 FRAME AND GRATE	EACH	2	2		
		60207605	CATCH BASINS, TYPE C, TYPE 8 GRATE	EACH	1	1		
		60218400	MANHOLES, TYPE A, 4'-DIAMETER, TYPE 1 FRAME, CLOSED LID	EACH	5	5		
		60221100	MANHOLES, TYPE A, 5'-DIAMETER, TYPE 1 FRAME, CLOSED LID	EACH	5	5		
		60222000	MANHOLES, TYPE A, 5'-DIAMETER, TYPE 11 FRAME AND GRATE	EACH	1	1		
		60223800	MANHOLES, TYPE A, 6'-DIAMETER, TYPE 1 FRAME, CLOSED LID	EACH	1	1		
		60224020	MANHOLES, TYPE A, 6'-DIAMETER, TYPE 11 FRAME AND GRATE	EACH	1	1		
		60240310	INLETS, TYPE B, TYPE 11 FRAME AND GRATE	EACH	3	3		
		60240328	INLETS, TYPE B, TYPE 24 FRAME AND GRATE	EACH	2	2		
		60255500	MANHOLES TO BE ADJUSTED	EACH	3	3		
		60265700	VALVE VAULTS TO BE ADJUSTED	EACH	3	3		
		60266600	VALVE BOXES TO BE ADJUSTED	EACH	1	1		
		60500040	REMOVING MANHOLES	EACH	3	3		
		60603800	COMBINATION CONCRETE CURB AND GUTTER, TYPE B-6.12	FOOT	1,795	1,795		
		60605000	COMBINATION CONCRETE CURB AND GUTTER, TYPE B-6.24	FOOT	1,155	1,155		
		60610400	COMBINATION CONCRETE CURB AND GUTTER, TYPE M-6.24	FOOT	235	235		
		60618300	CONCRETE MEDIAN SURFACE, 4 INCH	SQ FT	415	415		
		60624600	CORRUGATED MEDIAN	SQ FT	395	395		
		67100100	MOBILIZATION	L SUM	1	1		
Δ	*	66900200	NON-SPECIAL WASTE DISPOSAL	CU YD	55	55		
Δ	*	66900530	SOIL DISPOSAL ANALYSIS	EACH	2	2		
Δ	*	66901001	REGULATED SUBSTANCES PRE-CONSTRUCTION PLAN	LSUM	1	1		
Δ	*	66901002	ON-SITE MONITORING OF REGULATED SUBSTANCES	CAL DA	5	5		
Δ	*	66901003	REGULATED SUBSTANCES FINAL CONSTRUCTION REPORT	LSUM	1	1		

Δ INDICATES SPECIALTY ITEM
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VILLAGE OF SUGAR GROVE
10 S. MUNICIPAL DRIVE
SUGAR GROVE, IL 60554

DESIGNED	- CMF	REVISED -
DRAWN	- JPS	REVISED -
CHECKED	- TVW	REVISED -
DATE	- 08/11/2017	REVISED -

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

BLISS ROAD / WHEELER ROAD AT ILLINOIS ROUTE 47
SUMMARY OF QUANTITIES

SCALE: N.T.S. | SHEET NO. 1 OF 2 SHEETS | STA. | TO STA.

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
326	13-00026-00-CH	KANE	107	4
		CONTRACT NO. 61E52		
	ILLINOIS FED. AID PROJECT			

SUMMARY OF QUANTITIES

		CODE NUMBER	ITEM	UNIT	TOTAL QUANTITY	ROADWAY 75% FEDERAL 12.5% STATE 12.5% LOCAL 0004	TRAFFIC SIGNALS 75% FEDERAL 12.5% STATE 12.5% LOCAL 0021	TRAINEES 75% FEDERAL 12.5% STATE 12.5% LOCAL 0042
		70103815	TRAFFIC CONTROL SURVEILLANCE	CAL DA	100	100		
	*	70107025	CHANGEABLE MESSAGE SIGN	CAL DA	150	150		
	*	70300100	SHORT TERM PAVEMENT MARKING	FOOT	2,100	2,100		
	*	70300150	SHORT TERM PAVEMENT MARKING REMOVAL	SQ FT	700	700		
	*	70300210	TEMPORARY PAVEMENT MARKING LETTERS AND SYMBOLS	SQ FT	125	125		
	*	70300220	TEMPORARY PAVEMENT MARKING - LINE 4"	FOOT	7,000	7,000		
	*	70300240	TEMPORARY PAVEMENT MARKING - LINE 6"	FOOT	600	600		
	*	70300260	TEMPORARY PAVEMENT MARKING - LINE 12"	FOOT	250	250		
	*	70300280	TEMPORARY PAVEMENT MARKING - LINE 24"	FOOT	150	150		
	*	70300520	PAVEMENT MARKING TAPE, TYPE III 4"	FOOT	2,100	2,100		
Δ		72000100	SIGN PANEL - TYPE 1	SQ FT	114	40	74	
Δ		72000200	SIGN PANEL - TYPE 2	SQ FT	35		35	
Δ		72400500	RELOCATE SIGN PANEL ASSEMBLY - TYPE A	EACH	7	7		
Δ		72400600	RELOCATE SIGN PANEL ASSEMBLY - TYPE B	EACH	3	3		
Δ		72800100	TELESCOPING STEEL SIGN SUPPORT	FOOT	75	75		
Δ		78000100	THERMOPLASTIC PAVEMENT MARKING - LETTERS AND SYMBOLS	SQ FT	510	510		
Δ		78000200	THERMOPLASTIC PAVEMENT MARKING - LINE 4"	FOOT	8,630	8,630		
Δ		78000400	THERMOPLASTIC PAVEMENT MARKING - LINE 6"	FOOT	2,920	2,920		
Δ		78000600	THERMOPLASTIC PAVEMENT MARKING - LINE 12"	FOOT	2,770	2,770		
Δ		78000650	THERMOPLASTIC PAVEMENT MARKING - LINE 24"	FOOT	270	270		
Δ		78100100	RAISED REFLECTIVE PAVEMENT MARKER	EACH	36	36		
Δ		78300200	RAISED REFLECTIVE PAVEMENT MARKER REMOVAL	EACH	33	33		
Δ	*	81028200	UNDERGROUND CONDUIT, GALVANIZED STEEL, 2" DIA.	FOOT	871		871	
Δ	*	81028220	UNDERGROUND CONDUIT, GALVANIZED STEEL, 3" DIA.	FOOT	188		188	
Δ	*	81028240	UNDERGROUND CONDUIT, GALVANIZED STEEL, 4" DIA.	FOOT	612		612	
Δ	*	81400100	HANDHOLE	EACH	2		2	
Δ	*	81400200	HEAVY-DUTY HANDHOLE	EACH	3		3	
Δ	*	81400300	DOUBLE HANDHOLE	EACH	2		2	
Δ		83600200	LIGHT POLE FOUNDATION, 24" DIAMETER	FOOT	5	5		
Δ		84200804	REMOVAL OF POLE FOUNDATION	EACH	1	1		
Δ		84400105	RELOCATE EXISTING LIGHTING UNIT	EACH	1	1		
Δ	*	85000200	MAINTENANCE OF EXISTING TRAFFIC SIGNAL INSTALLATION	EACH	1		1	
Δ	*	86400100	TRANSCEIVER - FIBER OPTIC	EACH	1		1	
Δ	*	87300925	ELECTRIC CABLE IN CONDUIT, TRACER, NO. 14 1C	FOOT	483		483	
Δ	*	87301215	ELECTRIC CABLE IN CONDUIT, SIGNAL NO. 14 2C	FOOT	1,692		1,692	
Δ	*	87301225	ELECTRIC CABLE IN CONDUIT, SIGNAL NO. 14 3C	FOOT	2,738		2,738	
Δ	*	87301245	ELECTRIC CABLE IN CONDUIT, SIGNAL NO. 14 5C	FOOT	3,982		3,982	
Δ	*	87301255	ELECTRIC CABLE IN CONDUIT, SIGNAL NO. 14 7C	FOOT	959		959	
Δ	*	87301305	ELECTRIC CABLE IN CONDUIT, LEAD-IN, NO. 14 1 PAIR	FOOT	1,595		1,595	
Δ	*	87301805	ELECTRIC CABLE IN CONDUIT, SERVICE, NO. 6 2 C	FOOT	122		122	
Δ	*	87301900	ELECTRIC CABLE IN CONDUIT, EQUIPMENT GROUNDING CONDUCTOR, NO. 6 1C	FOOT	1,300		1,300	
Δ	*	87502500	TRAFFIC SIGNAL POST, GALVANIZED STEEL 16 FT.	EACH	4		4	
Δ	*	87502520	TRAFFIC SIGNAL POST, GALVANIZED STEEL 18 FT.	EACH	1		1	
Δ	*	87700300	STEEL MAST ARM ASSEMBLY AND POLE, 52 FT.	EACH	2		2	
Δ	*	87700320	STEEL MAST ARM ASSEMBLY AND POLE, 55 FT.	EACH	1		1	
Δ	*	87700404	STEEL MAST ARM ASSEMBLY AND POLE, 62 FT.	EACH	1		1	
Δ	*	87800100	CONCRETE FOUNDATION, TYPE A	FOOT	24		24	
Δ	*	87800150	CONCRETE FOUNDATION, TYPE C	FOOT	4		4	
Δ	*	87800415	CONCRETE FOUNDATION, TYPE E 36-INCH DIAMETER	FOOT	45		45	
Δ	*	87800420	CONCRETE FOUNDATION, TYPE E 42-INCH DIAMETER	FOOT	21		21	
Δ	*	88030020	SIGNAL HEAD, LED, 1-FACE, 3-SECTION, MAST-ARM MOUNTED	EACH	10		10	
Δ	*	88030050	SIGNAL HEAD, LED, 1-FACE, 3-SECTION, BRACKET MOUNTED	EACH	6		6	
Δ	*	88030100	SIGNAL HEAD, LED, 1-FACE, 5-SECTION, BRACKET MOUNTED	EACH	2		2	
Δ	*	88030110	SIGNAL HEAD, LED, 1-FACE, 5-SECTION, MAST-ARM MOUNTED	EACH	2		2	
Δ	*	88102717	PEDESTRIAN SIGNAL HEAD, LED, 1-FACE, BRACKET MOUNTED WITH COUNTDOWN TIMER	EACH	8		8	
Δ	*	88200410	TRAFFIC SIGNAL BACKPLATE, LOUVERED, FORMED PLASTIC	EACH	12		12	
Δ	*	88500100	INDUCTIVE LOOP DETECTOR	EACH	6		6	
Δ	*	88600100	DETECTOR LOOP, TYPE I	FOOT	222		222	
Δ	*	88700200	LIGHT DETECTOR	EACH	5		5	
Δ	*	88700300	LIGHT DETECTOR AMPLIFIER	EACH	2		2	
Δ	*	88800100	PEDESTRIAN PUSH-BUTTON	EACH	8		8	
Δ	*	89000100	TEMPORARY TRAFFIC SIGNAL INSTALLATION	EACH	1		1	
Δ		89502300	REMOVE ELECTRIC CABLE FROM CONDUIT	FOOT	2,852		2,852	
Δ	*	89502375	REMOVE EXISTING TRAFFIC SIGNAL EQUIPMENT	EACH	1		1	
Δ	*	89502380	REMOVE EXISTING HANDHOLE	EACH	9		9	
Δ	*	89502382	REMOVE EXISTING DOUBLE HANDHOLE	EACH	1		1	
Δ	*	89502385	REMOVE EXISTING CONCRETE FOUNDATION	EACH	10		10	
Δ		A2001720	TREE, ACER SACCHARUM (SUGAR MAPLE), 2-1/2" CALIPER, BALLED AND BURLAPPED	EACH	6	6		
	*	X0322936	REMOVE EXISTING FLARED END SECTION	EACH	7	7		
Δ	*	X0324085	EMERGENCY VEHICLE PRIORITY SYSTEM LINE SENSOR CABLE, NO. 20 3/C	FOOT	1,512		1,512	
Δ	*	X0324599	ROD AND CLEAN EXISTING CONDUIT	FOOT	500		500	
	*	X0327980	PAVEMENT MARKING REMOVAL - WATER BLASTING	SQ FT	1,000	1,000		
Δ	*	X1400081	FULL-ACTUATED CONTROLLER AND TYPE SUPER P CABINET (SPECIAL)	EACH	1		1	
Δ	*	X1400150	SERVICE INSTALLATION, GROUND MOUNTED, METERED	EACH	1		1	
Δ	*	X1400201	RADAR VEHICLE DETECTION SYSTEM, SINGLE APPROACH, STOP BAR	EACH	2		2	
	*	X2130010	EXPLORATION TRENCH, SPECIAL	FOOT	100	100.0		
	*	X4021000	TEMPORARY ACCESS (PRIVATE ENTRANCE)	EACH	2	2		
	*	X4022000	TEMPORARY ACCESS (COMMERCIAL ENTRANCE)	EACH	1	1		
	*	X4023000	TEMPORARY ACCESS (ROAD)	EACH	2	2		
	*	X4401198	HOT-MIX ASPHALT SURFACE REMOVAL, VARIABLE DEPTH	SQ YD	5,600	5,600		
	*	X4810200	AGGREGATE SHOULDER REMOVAL	CU YD	105	105		
	*	X7010216	TRAFFIC CONTROL AND PROTECTION, (SPECIAL)	L SUM	1	1		
Δ	*	X7810300	RECESSED REFLECTIVE PAVEMENT MARKER	EACH	73	73		
Δ	*	X8620200	UNINTERRUPTABLE POWER SUPPLY, SPECIAL	EACH	1		1	
Δ	*	X8710024	FIBER OPTIC CABLE IN CONDUIT, NO. 62.5/125, MM12F SM24F	FOOT	2,369		2,369	
	*	XX008200	STABILIZED DRIVEWAY PAVEMENT	SQ YD	205	205		
	*	Z0030850	TEMPORARY INFORMATION SIGNING	SQ FT	154	154		
Δ	*	Z0033046	RE-OPTIMIZE TRAFFIC SIGNAL SYSTEM LEVEL 2	EACH	1		1	
Δ	*	Z0073510	TEMPORARY TRAFFIC SIGNAL TIMING	EACH	1		1	
	*	Z0076600	TRAINEES	HOUR	500			500
	*	Z0076604	TRAINEES TRAINING PROGRAM GRADUATE	HOUR	500			500

Δ INDICATES SPECIALTY ITEM
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DESIGNED	- CMF	REVISED	-
DRAWN	- JPS	REVISED	-
CHECKED	- TVW	REVISED	-
DATE	- 08/11/2017	REVISED	-

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

BLISS ROAD / WHEELER ROAD AT ILLINOIS ROUTE 47
SUMMARY OF QUANTITIES

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

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
326	13-00026-00-CH	KANE	107	5
		CONTRACT NO. 61E52		
	ILLINOIS FED. AID PROJECT			

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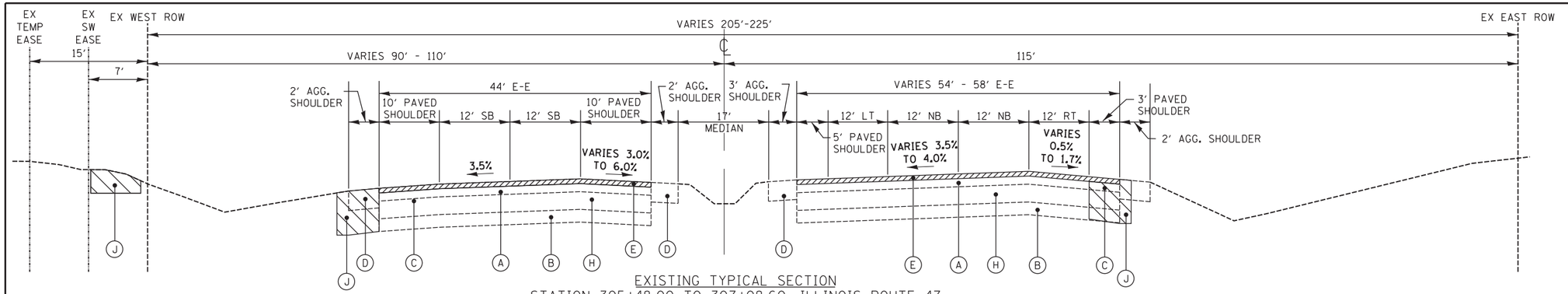
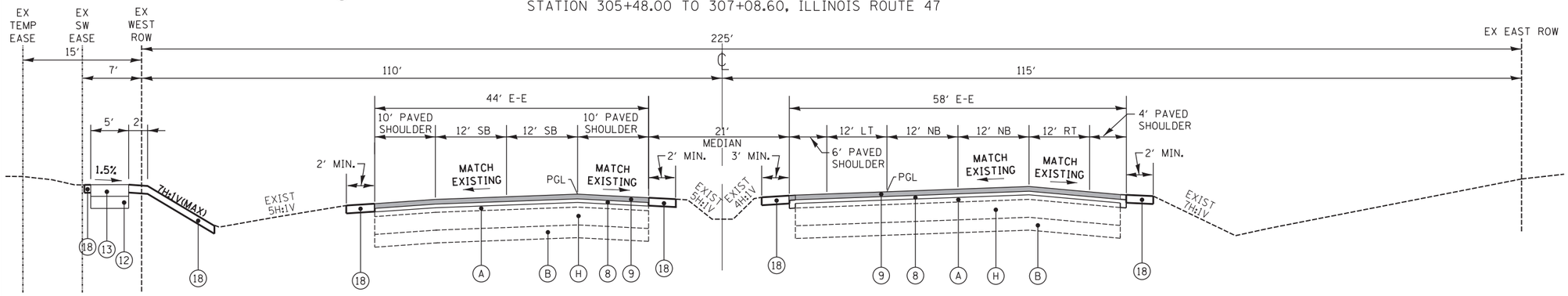
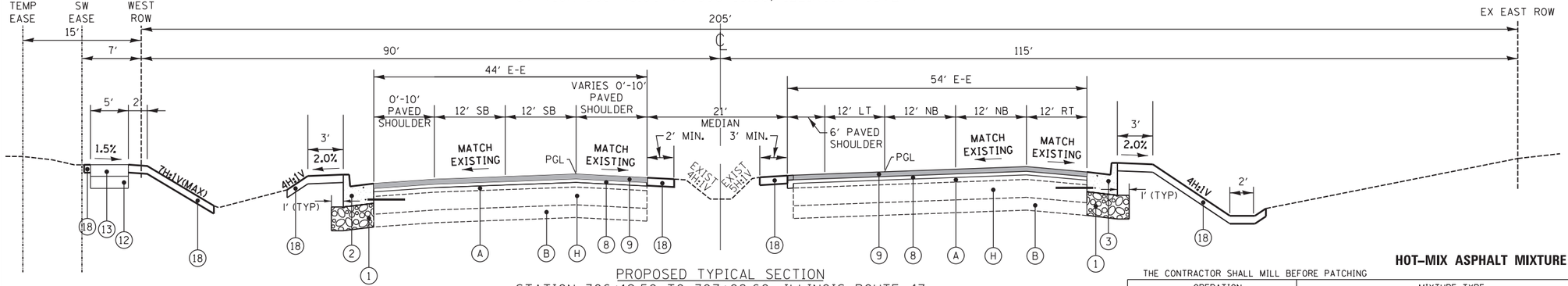


EXISTING TYPICAL SECTION
STATION 305+48.00 TO 307+08.60, ILLINOIS ROUTE 47



PROPOSED TYPICAL SECTION
STATION 305+48.00 TO 306+19.50, ILLINOIS ROUTE 47



PROPOSED TYPICAL SECTION
STATION 306+19.50 TO 307+08.60, ILLINOIS ROUTE 47

EXISTING LEGEND

- (A) EXISTING ASPHALT PAVEMENT
- (B) EXISTING POZZOLANIC COURSE
- (C) EXISTING PAVED SHOULDER
- (D) EXISTING AGGREGATE SHOULDER
- (E) HOT-MIX ASPHALT SURFACE REMOVAL, 2 1/2"
- (F) HOT-MIX ASPHALT SURFACE REMOVAL VARIABLE DEPTH
- (G) EXISTING SIDEWALK
- (H) EXISTING CONCRETE PAVEMENT
- (I) EXISTING AGGREGATE BASE
- (J) EARTH EXCAVATION
- REMOVAL ITEMS

PROPOSED LEGEND

1. AGGREGATE SUBGRADE, 12"
2. COMBINATION CONCRETE CURB AND GUTTER, TYPE B-6.12
3. COMBINATION CONCRETE CURB AND GUTTER, TYPE B-6.24
4. COMBINATION CONCRETE CURB AND GUTTER, TYPE M-6.24
5. HOT-MIX ASPHALT BINDER COURSE, IL-19.0, N90, 8 3/4"
6. HOT-MIX ASPHALT BINDER COURSE, IL-19.0, N70, 6 1/2"
7. HOT-MIX ASPHALT BINDER COURSE, IL-19.0, N70, 4 1/4"
8. POLYMERIZED HOT-MIX ASPHALT BINDER COURSE, IL-4.75, N50, 3/4"
9. POLYMERIZED HOT-MIX ASPHALT SURFACE COURSE, IL-9.5, MIX "E", N70, 1 3/4"
10. HOT-MIX ASPHALT SURFACE COURSE, IL-9.5, MIX "D", N70, 1 3/4"
11. CONCRETE MEDIAN SURFACE, 4"
12. AGGREGATE BASE COURSE, TYPE B, 4"
13. PORTLAND CEMENT CONCRETE SIDEWALK, 5"
14. AGGREGATE BASE COURSE, TYPE B, 8"
15. HOT-MIX ASPHALT SURFACE COURSE, MIX "D", N50, 2"
16. BITUMINOUS MATERIALS (PRIME COAT)
17. PAVEMENT MARKING LINE (SEE PLANS FOR WIDTH)
18. TOPSOIL, 4", SEEDING, FERTILIZER AND EROSION CONTROL BLANKET
19. HMA SHOULDERS, 8" W/ SUBBASE GRANULAR MATERIAL TYPE B 4"

PAVEMENT CROSS SLOPES

	SOUTH BOUND OUTSIDE SHOULDER	SOUTH BOUND RIGHT TURN LANE	SOUTH BOUND TRAVEL LANES	SOUTH BOUND LEFT TURN LANE	SOUTH BOUND INSIDE SHOULDER		NORTH BOUND INSIDE SHOULDER	NORTH BOUND LEFT TURN LANE	NORTH BOUND TRAVEL LANES	NORTH BOUND RIGHT TURN LANE	NORTH BOUND OUTSIDE SHOULDER
ILLINOIS ROUTE 47											
305+50	4.1%	N/A	4.1%	N/A	-4.6%		3.5%	3.5%	3.5%	0.0%	0.0%
306+30	4.0%	N/A	4.0%	N/A	-4.5%		3.5%	3.5%	3.5%	0.9%	-0.9%
306+50	4.0%	N/A	4.0%	N/A	-3.3%		3.5%	3.5%	3.5%	-1.6%	-1.6%
307+30	N/A	3.2%	2.2%	N/A	N/A		N/A	N/A	3.5%	N/A	N/A

HOT-MIX ASPHALT MIXTURE REQUIREMENTS

THE CONTRACTOR SHALL MILL BEFORE PATCHING

OPERATION	MIXTURE TYPE	"AIR VOIDS @ N_{des}"
IL 47 WIDENING	POLYMERIZED HOT-MIX ASPHALT SURFACE COURSE, IL-9.5, MIX "E", N70, 1 3/4"	4% @ 70 Gyr.
	POLYMERIZED HOT-MIX ASPHALT BINDER COURSE, IL-4.75, N50, 3/4"	3.5% @ 50 Gyr.
	HOT-MIX ASPHALT BINDER COURSE, IL-19.0, N90, 8 3/4" (3 LIFTS)	4% @ 90 Gyr.
IL 47 RESURFACING	POLYMERIZED HOT-MIX ASPHALT SURFACE COURSE, IL-9.5, MIX "E", N70, 1 3/4"	4% @ 70 Gyr.
	POLYMERIZED HOT-MIX ASPHALT BINDER COURSE, IL-4.75, N50, 3/4"	3.5% @ 50 Gyr.
BLISS ROAD WIDENING	HOT-MIX ASPHALT SURFACE COURSE, IL-9.5, MIX "D", N70, 1 3/4"	4% @ 70 Gyr.
	POLYMERIZED HOT-MIX ASPHALT BINDER COURSE, IL-4.75, N50, 3/4"	3.5% @ 50 Gyr.
	HOT-MIX ASPHALT BINDER COURSE, IL-19.0, N70, 6 1/2" (3 LIFTS)	4% @ 70 Gyr.
BLISS ROAD RESURFACING	HOT-MIX ASPHALT SURFACE COURSE, IL-9.5, MIX "D", N70, 1 3/4"	4% @ 70 Gyr.
	POLYMERIZED HOT-MIX ASPHALT BINDER COURSE, IL-4.75, N50, 3/4"	3.5% @ 50 Gyr.
WHEELER ROAD WIDENING	HOT-MIX ASPHALT SURFACE COURSE, IL-9.5, MIX "D", N70, 1 3/4"	4% @ 70 Gyr.
	POLYMERIZED HOT-MIX ASPHALT BINDER COURSE, IL-4.75, N50, 3/4"	3.5% @ 50 Gyr.
	HOT-MIX ASPHALT BINDER COURSE, IL-19.0, N70, 4 1/4" (2 LIFTS)	4% @ 70 Gyr.
WHEELER ROAD RESURFACING	HOT-MIX ASPHALT SURFACE COURSE, IL-9.5, MIX "D", N70, 1 3/4"	4% @ 70 Gyr.
	POLYMERIZED HOT-MIX ASPHALT BINDER COURSE, IL-4.75, N50, 3/4"	3.5% @ 50 Gyr.
DRIVEWAY RECONSTRUCTION (PE)	STABILIZED DRIVEWAY PAVEMENT, HMA SURFACE COURSE, IL-9.5, MIX "D", N50, 3"	4% @ 50 Gyr.
INCIDENTAL HMA SURFACE (CE)	INCIDENTAL HOT-MIX ASPHALT SURFACING, HMA SURFACE COURSE, IL-9.5, MIX "D", N50, 3"	4% @ 50 Gyr.
PATCHING	CLASS D PATCHES, HMA BINDER COURSE, IL-19.0, N70, 7" (3 LIFTS) OR 18" (6 LIFTS)	4% @ 70 Gyr.
HMA SHOULDERS	HOT-MIX ASPHALT SHOULDERS, 8", HMA BINDER COURSE, IL-19.0, N70, 8" (3 LIFTS)	4% @ 70 Gyr.

THE UNIT WEIGHT USED TO CALCULATE ALL HMA SURFACE MIXTURE QUANTITIES IS 112 LBS/SQ YD/INCH.

THE "AC TYPE" FOR POLYMERIZED HMA MIXES SHALL BE "SBS/SBR PG 76-22" AND FOR NON-POLYMERIZED HMA THE "AC TYPE" SHALL BE "PG 64-22" UNLESS MODIFIED BY DISTRICT ONE SPECIAL PROVISIONS.
FOR USE OF RECYCLED MATERIALS SEE SPECIAL PROVISIONS.

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VILLAGE OF SUGAR GROVE
10 S. MUNICIPAL DRIVE
SUGAR GROVE, IL 60554

DESIGNED	- CMF	REVISED	-
DRAWN	- JPS	REVISED	-
CHECKED	- TVW	REVISED	-
DATE	- 08/11/2017	REVISED	-

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

BLISS ROAD / WHEELER ROAD AT ILLINOIS ROUTE 47
TYPICAL SECTIONS

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

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
326	13-00026-00-CH	KANE	107	6
		CONTRACT NO. 61E52		
		ILLINOIS FED. AID PROJECT		

Plotted: 8/26/2019 4:40:34 PM By: jschmidt FILE NAME: H:\SDSKPro\SG108-Micro\Dgn Final Eng\SG108-Cvr.dgn
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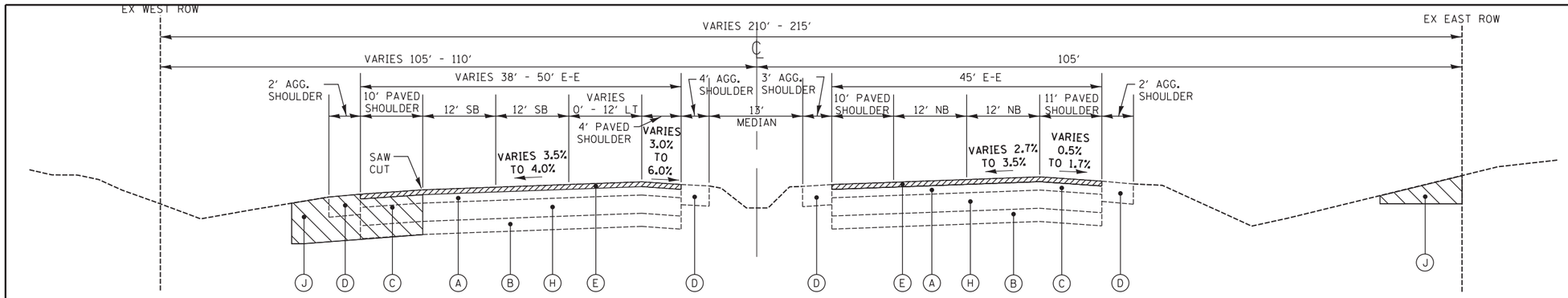
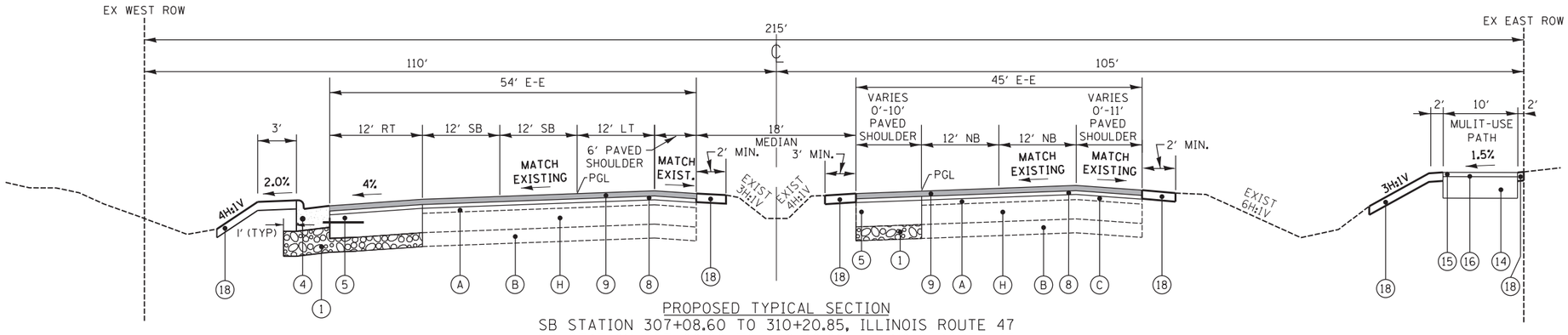
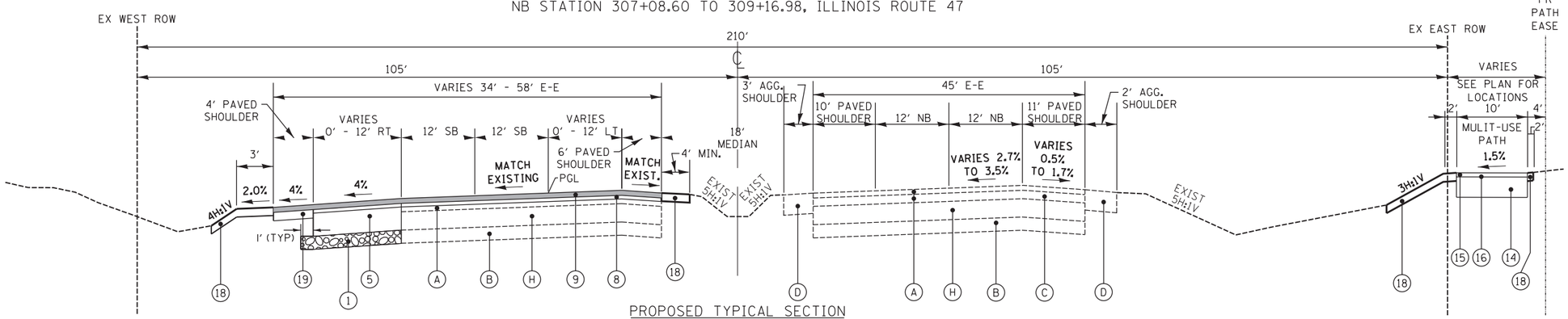


EXISTING TYPICAL SECTION
STATION 307+08.60 TO 312+46.50, ILLINOIS ROUTE 47



PROPOSED TYPICAL SECTION
SB STATION 307+08.60 TO 310+20.85, ILLINOIS ROUTE 47
NB STATION 307+08.60 TO 309+16.98, ILLINOIS ROUTE 47



PROPOSED TYPICAL SECTION
SB STATION 310+20.85 TO 312+46.50, ILLINOIS ROUTE 47
NB STATION 309+16.98 TO 312+46.50, ILLINOIS ROUTE 47

EXISTING LEGEND

- (A) EXISTING ASPHALT PAVEMENT
- (B) EXISTING POZZOLANIC COURSE
- (C) EXISTING PAVED SHOULDER
- (D) EXISTING AGGREGATE SHOULDER
- (E) HOT-MIX ASPHALT SURFACE REMOVAL, 2 1/2"
- (F) HOT-MIX ASPHALT SURFACE REMOVAL VARIABLE DEPTH
- (G) EXISTING SIDEWALK
- (H) EXISTING CONCRETE PAVEMENT
- (I) EXISTING AGGREGATE BASE
- (J) EARTH EXCAVATION
- REMOVAL ITEMS

PROPOSED LEGEND

1. AGGREGATE SUBGRADE, 12"
2. COMBINATION CONCRETE CURB AND GUTTER, TYPE B-6.12
3. COMBINATION CONCRETE CURB AND GUTTER, TYPE B-6.24
4. COMBINATION CONCRETE CURB AND GUTTER, TYPE M-6.24
5. HOT-MIX ASPHALT BINDER COURSE, IL-19.0, N90, 8 3/4"
6. HOT-MIX ASPHALT BINDER COURSE, IL-19.0, N70, 6 1/2"
7. HOT-MIX ASPHALT BINDER COURSE, IL-19.0, N70, 4 1/4"
8. POLYMERIZED HOT-MIX ASPHALT BINDER COURSE, IL-4.75, N50, 3/4"
9. POLYMERIZED HOT-MIX ASPHALT SURFACE COURSE, IL-9.5, MIX "E", N70, 1 3/4"
10. HOT-MIX ASPHALT SURFACE COURSE, IL-9.5, MIX "D", N70, 1 3/4"
11. CONCRETE MEDIAN SURFACE, 4"
12. AGGREGATE BASE COURSE, TYPE B, 4"
13. PORTLAND CEMENT CONCRETE SIDEWALK, 5"
14. AGGREGATE BASE COURSE, TYPE B, 8"
15. HOT-MIX ASPHALT SURFACE COURSE, MIX "D", N50, 2"
16. BITUMINOUS MATERIALS (PRIME COAT)
17. PAVEMENT MARKING LINE (SEE PLANS FOR WIDTH)
18. TOPSOIL, 4", SEEDING, FERTILIZER AND EROSION CONTROL BLANKET
19. HMA SHOULDERS, 8" W/ SUBBASE GRANULAR MATERIAL TYPE B 4"

PAVEMENT CROSS SLOPES

	SOUTH BOUND OUTSIDE SHOULDER	SOUTH BOUND RIGHT TURN LANE	SOUTH BOUND TRAVEL LANES	SOUTH BOUND LEFT TURN LANE	SOUTH BOUND INSIDE SHOULDER	NORTH BOUND INSIDE SHOULDER	NORTH LEFT TURN LANE	NORTH BOUND TRAVEL LANES	NORTH BOUND RIGHT TURN LANE	NORTH BOUND OUTSIDE SHOULDER
ILLINOIS ROUTE 47										
307+50	N/A	3.6%	3.6%	1.7%	1.7%	3.9%	N/A	3.3%	N/A	N/A
308+00	4.0%	4.0%	4.0%	4.0%	-2.0%	3.7%	N/A	3.7%	N/A	-2.3%
308+50	4.0%	4.0%	4.0%	4.0%	-4.0%	5.0%	N/A	3.2%	N/A	-4.0%
309+00	4.0%	4.0%	4.0%	4.0%	-4.0%	5.7%	N/A	3.2%	N/A	-5.1%
309+50	4.0%	4.0%	4.0%	4.0%	-4.0%	END IMPROVEMENTS				
310+00	4.0%	4.0%	4.0%	4.0%	-4.0%					
310+50	4.0%	4.0%	4.0%	4.0%	-4.0%					
311+00	4.0%	4.0%	4.0%	4.0%	-4.0%					
311+50	4.0%	4.0%	4.0%	4.0%	-4.0%					
312+00	4.0%	4.0%	4.0%	4.0%	-4.0%					
312+50	END IMPROVEMENTS									

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DESIGNED - CMF	REVISED -	
DRAWN - JPS	REVISED -	
CHECKED - TVW	REVISED -	
DATE - 08/11/2017	REVISED -	

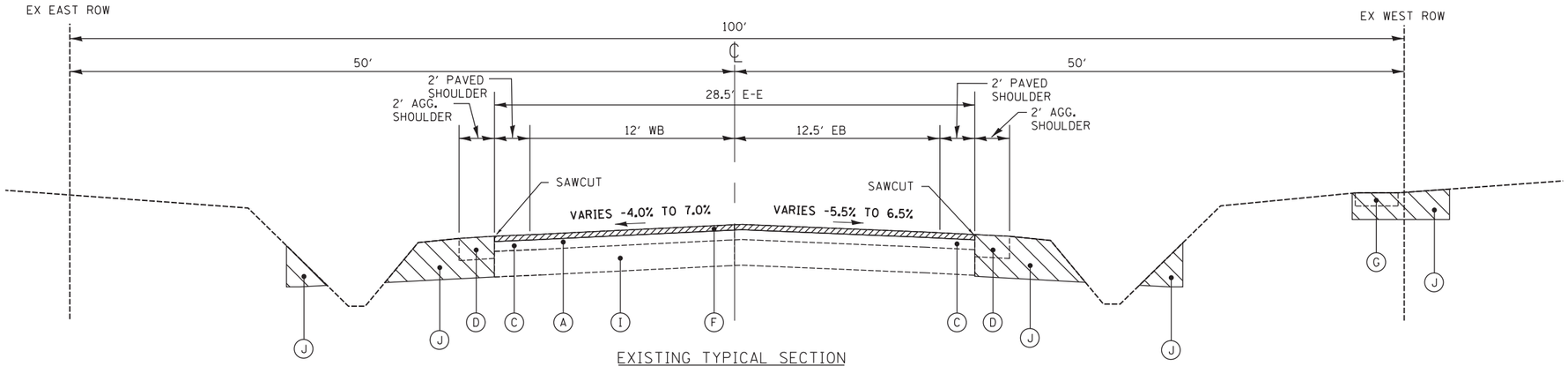
STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

BLISS ROAD / WHEELER ROAD AT ILLINOIS ROUTE 47
TYPICAL SECTIONS

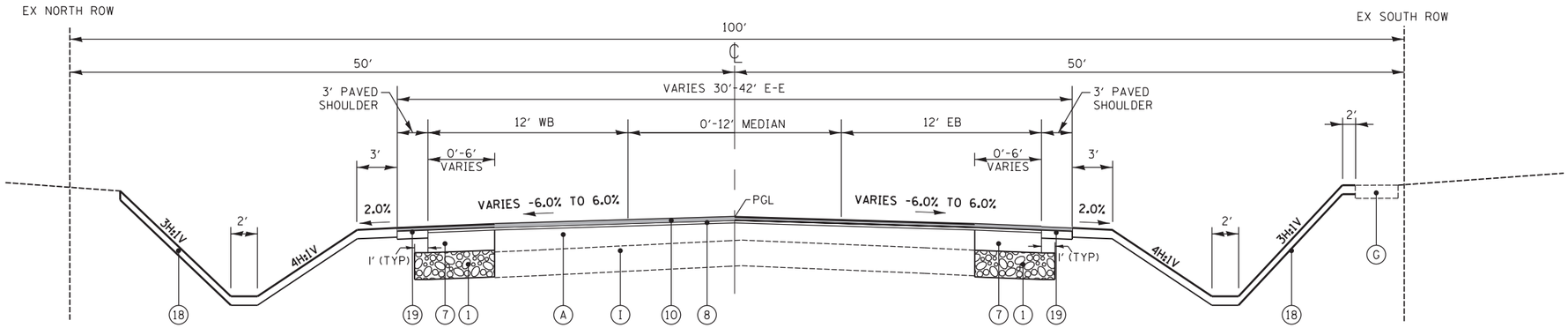
SCALE: N.T.S. | SHEET NO. 2 OF 4 SHEETS | STA. | TO STA.

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
326	13-00026-00-CH	KANE	107	7
		CONTRACT NO. 61E52		
	ILLINOIS FED. AID PROJECT			

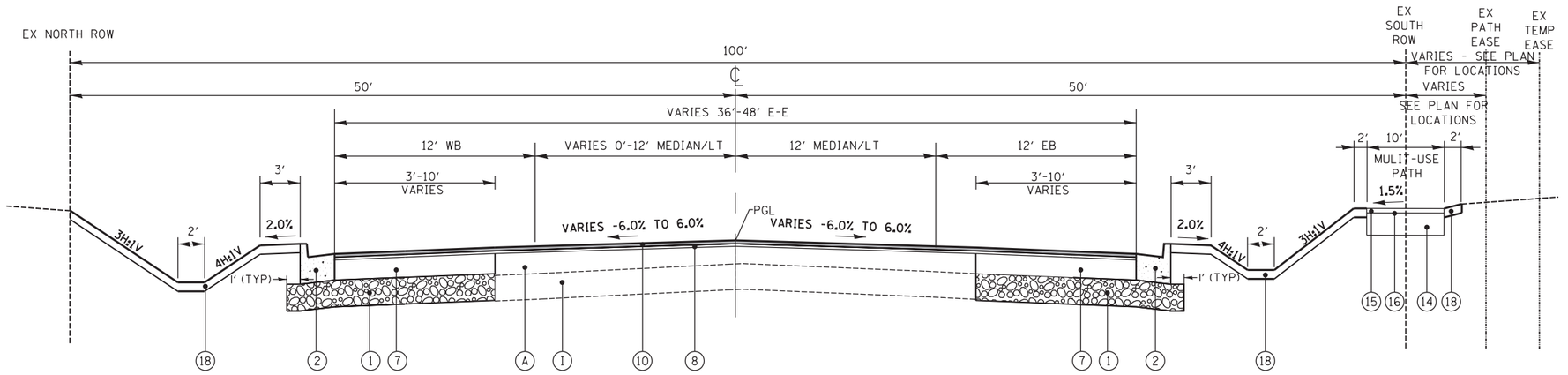
Plotted: 8/26/2019 4:40:35 PM By: lschmidt FILE NAME: H:\SDSKPro\SG1108-Micro\Dgn Final Eng\SG1108-Cvr.dgn
Path: H:\SDSKPro\SG1108-Micro\Dgn Final Eng\SG1108-Cvr.dgn



EXISTING TYPICAL SECTION
STATION 97+60 TO 104+49.59, WHEELER ROAD



PROPOSED TYPICAL SECTION
STATION 97+60 TO 99+40, WHEELER ROAD



PROPOSED TYPICAL SECTION
STATION 99+40 TO 104+49.59, WHEELER ROAD

EXISTING LEGEND

- (A) EXISTING ASPHALT PAVEMENT
- (B) EXISTING POZZOLANIC COURSE
- (C) EXISTING PAVED SHOULDER
- (D) EXISTING AGGREGATE SHOULDER
- (E) HOT-MIX ASPHALT SURFACE REMOVAL, 2 1/2"
- (F) HOT-MIX ASPHALT SURFACE REMOVAL VARIABLE DEPTH
- (G) EXISTING SIDEWALK
- (H) EXISTING CONCRETE PAVEMENT
- (I) EXISTING AGGREGATE BASE
- (J) EARTH EXCAVATION
- REMOVAL ITEMS

PROPOSED LEGEND

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- (8) POLYMERIZED HOT-MIX ASPHALT BINDER COURSE, IL-4.75, N50, 3/4"
- (9) POLYMERIZED HOT-MIX ASPHALT SURFACE COURSE, IL-9.5, MIX "E", N70, 1 3/4"
- (10) HOT-MIX ASPHALT SURFACE COURSE, IL-9.5, MIX "D", N70, 1 3/4"
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DATE - 08/11/2017	REVISED -	

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

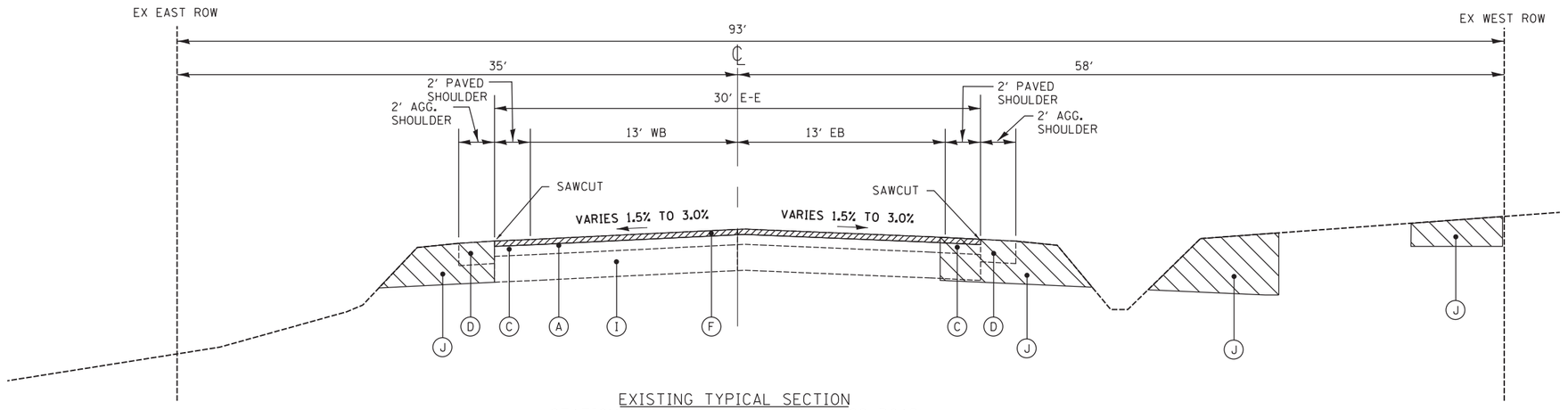
BLISS ROAD / WHEELER ROAD AT ILLINOIS ROUTE 47
TYPICAL SECTIONS

SCALE: N.T.S. | SHEET NO. 3 OF 4 SHEETS | STA. | TO STA.

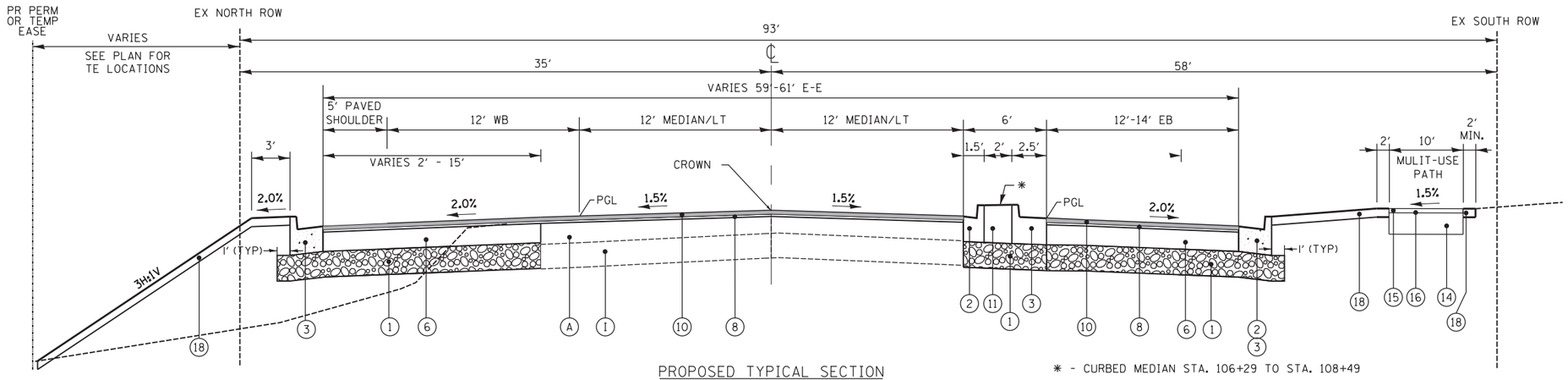
F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
326	13-00026-00-CH	KANE	107	8
		CONTRACT NO. 61E52		
	ILLINOIS FED. AID PROJECT			

Plotted: 8/26/2019 4:40:37 PM By: jschmidt FILE NAME: H:\SDSKPro\SG1108-Micro\Dgn Final Eng\SG1108-Cvr.dgn

Path: H:\SDSKPro\SG1108-Micro\Dgn Final Eng\SG1108-Cvr.dgn

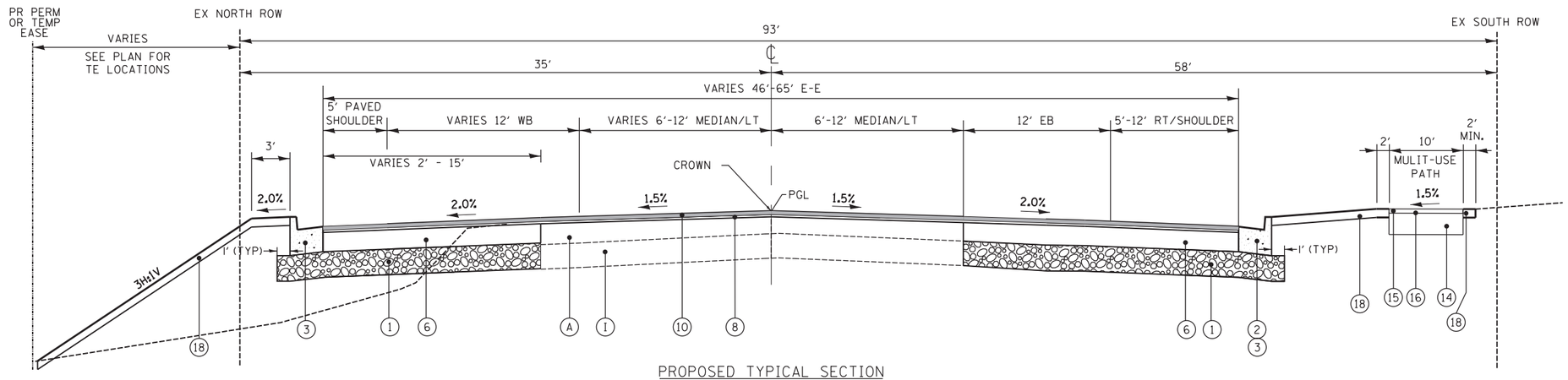


EXISTING TYPICAL SECTION
STATION 106+30.45 TO 111+80, BLISS ROAD



PROPOSED TYPICAL SECTION
STATION 108+49 TO 111+80, BLISS ROAD

* - CURBED MEDIAN STA. 106+29 TO STA. 108+49



PROPOSED TYPICAL SECTION
STATION 108+49 TO 111+80, BLISS ROAD

EXISTING LEGEND

- (A) EXISTING ASPHALT PAVEMENT
- (B) EXISTING POZZOLANIC COURSE
- (C) EXISTING PAVED SHOULDER
- (D) EXISTING AGGREGATE SHOULDER
- (E) HOT-MIX ASPHALT SURFACE REMOVAL, 2 1/2"
- (F) HOT-MIX ASPHALT SURFACE REMOVAL VARIABLE DEPTH
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DESIGNED	-	REVISED	-
DRAWN	-	REVISED	-
CHECKED	-	REVISED	-
DATE	-	REVISED	-

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

BLISS ROAD / WHEELER ROAD AT ILLINOIS ROUTE 47
TYPICAL SECTIONS

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

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
326	13-00026-00-CH	KANE	107	9
		CONTRACT NO. 61E52		
	ILLINOIS FED. AID PROJECT			

Plotted: 8/26/2019 4:40:37 PM By: jschmidt FILE NAME: H:\SDSKPro\SG1108-Micro\Dgn Final Eng\SG1108-Cvr.dgn

Path: H:\SDSKPro\SG1108-Micro\Dgn Final Eng\SG1108-Cvr.dgn

STORM SEWER AND STORM SEWER STRUCTURES

STATION	OFFSET	LT./RT.	CB TA 4 DIA T8G	CB TA 4 DIA T11F&G	CB TA 4 DIA T24F&G	CB TA 5 DIA T11F&G	CB TC T8G	INLETS TB T11F&G	INLETS TB T24F&G	MAN TA 4 DIA T1F CL	MAN TA 5 DIA T1F CL	MAN TA 5 DIA T11F&G	MAN TA 6 DIA T1F CL	MAN TA 6 DIA T11F&G	PRC FLAR END SEC 18	PRC FLAR END SEC 36	PIPE DIA.	LENGTH	SLOPE	TRENCH BACKFILL	STORM SEW CL A 1 12	STORM SEW CL A 1 15	STORM SEW CL A 1 18	STORM SEW CL A 1 36	STORM SEW CL A 2 12	STORM SEW CL A 2 15	STORM SEW CL A 2 18	STORM SEW CL A 2 30	PIPE UNDERDR T 2 4
			EACH	EACH	EACH	EACH	EACH	EACH	EACH	EACH	EACH	EACH	EACH	EACH	EACH	EACH	INCH	FOOT	%	CU YD	FOOT	FOOT	FOOT	FOOT	FOOT	FOOT	FOOT	FOOT	FOOT
99+40	28	RT													1														
100+16	28	RT	1														18"	84	0.31	1.3			84						
100+54.25	24.58	LT								1							18"	69	1.00	64.0							69		
100+62.41	31.41	LT								1							18"	10	1.00	0.0							10		
100+75	19.58	LT						1									12"	45	1.00	7.4	45								60
101+01	26.04	RT	1														18"	60	1.00	25.3							60		
101+23.60	80.12	RT											1																
101+25	20.39	LT		1													12"	8	1.00	1.3					8				60
101+25	30	LT								1							18"	55	1.00	0.0							55		
101+68.56	57.85	RT				1																							
101+75	22.07	LT						1									12"	45	1.00	7.4	45								60
103+30	35	LT								1							15"	175	1.00	0.0						175			
103+30	27.58	LT		1													15"	8	1.00	0.6						8			30
103+40	27.58	LT						1									15"	10	1.00	1.3		10							30
104+00	33	RT					1										12"	35	1.00	3.1					35				
104+31.74	48.63	RT									1																		
106+08.12	53.53	RT									1						30"	38	0.24	103.2								38	
106+43.14	67.50	RT									1						30"	111	0.23	0.0								111	
107+54	34.58	RT			1												12"	27	1.00	7.7					27				
107+54	61.79	RT									1																		
107+57	71	RT														1	36"	91	0.41	0.0				91					
108+48	31.58	LT							1								12"	42	1.00	6.9					42				
108+48	13.50	RT		1													12"	44	1.00	7.9					44				
108+48	60	RT									1						36"	39	0.41	3.1				39					
108+69.40	49.91	LT								1							18"	40	0.28	0.0			40						
108+81.56	40.06	RT												1															
109+11.34	59.30	LT													1														
109+95	31.58	LT							1								12"	67	1.00	10.7					67				
109+95	38.76	RT				1																							
110+78	65.00	RT										1																	60
TOTAL			2	3	1	2	1	3	2	5	5	1	1	1	2	1				252	90	10	124	130	223	183	194	149	300

FOR STORM SEWERS: STATION SHOWN IS FOR THE UPSTREAM END OF THE PIPE

PAVEMENT MARKINGS

STATION	STATION	THPL PVT MK LTR & SYM	THPL PVT MK LINE 4	THPL PVT MK LINE 6	THPL PVT MK LINE 12	THPL PVT MK LINE 24
		SQ FT	FOOT	FOOT	FOOT	FOOT
ILLINOIS ROUTE 47						
305+48	307+08.60	36.4	475.0	525.0	735.4	64.0
307+08.60	312+46.50	145.6	1394.0	803.0	608.1	60.0
WHEELER ROAD						
97+60	101+00		2533.0		69.0	20.0
101+00	105+00	36.4	1597.0	495.0	489.1	39.0
BLISS ROAD						
106+00	110+00	182.0	1672.0	849.0	637.1	58.0
110+00	111+80	109.2	954.0	241.0	226.3	24.0
TOTAL		**510**	**8630**	**2920**	**2770**	**270**

LANDSCAPING

STATION	STATION	TOPSOIL F & P 4	SEEDING CL 2A	NITROGEN FERT NUTR	PHOSPHORUS FERT NUTR	POTASSIUM FERT NUTR	EROSION CONTR BLANKET
		SQ YD	ACRE	POUND	POUND	POUND	SQ YD
ILLINOIS ROUTE 47							
305+48	307+08.60	1090.0	0.23	20.7	20.7	20.7	1090.0
307+08.60	312+46.50	3140.0	0.65	58.5	58.5	58.5	3140.0
WHEELER ROAD							
97+60	101+00	2180.0	0.45	40.5	40.5	40.5	2180.0
101+00	105+00	1950.0	0.40	36.0	36.0	36.0	1950.0
BLISS ROAD							
106+00	110+00	1260.0	0.26	23.4	23.4	23.4	1260.0
110+00	111+80	570.0	0.12	10.8	10.8	10.8	570.0
TOTAL		**10190**	**2.25**	**190**	**190**	**190**	**10190**

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STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

BLISS ROAD / WHEELER ROAD AT ILLINOIS ROUTE 47
SCHEDULE OF QUANTITIES

SCALE: N.T.S. | SHEET NO. 1 OF 2 SHEETS | STA. | TO STA.

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
326	13-00026-00-CH	KANE	107	10
		CONTRACT NO. 61E52		
	ILLINOIS FED. AID PROJECT			

ROADWAY QUANTITIES

STATION	STATION	HMA SURF REM VAR DP	HMA SURF REM 2 1/2	HMA SURF REM BLTT JT	PAVEMENT REM	AGGREGATE SHLD REMOVL	COMB CURB GUTTER REM	COMB CC&G TB0.12	COMB CC&G TB0.24	COMB CC&G TM0.24	AGG SUBGRADE IMPR 12	HMA BC IL-19.0 N90 (8 3/4")	HMA BC IL-19.0 N70 (4 1/4" OR 6 1/2")	P HMA SC IL-9.5 E N70 (1 3/4")	HMA SC IL-9.5 D N70 (1 3/4")	P HMA BC IL-4.75 N50 (3/4")	HMA SHOULDERS 8	SUB GRAN MAT B 4	BIT MATLS PR CT	BIT MATLS TACK CT
STATION	STATION	SQ YD	SQ YD	SQ YD	SQ YD	CU YD	FOOT	FOOT	FOOT	FOOT	SQ YD	TON	TON	TON	TON	TON	SQ YD	SQ YD	POUND	POUND
ILLINOIS ROUTE 47																				
305+48	307+08.60		2150	50.5		15		85	115		180	50		220		100			210	1500
307+08.60	312+46.50		3640	44.5	740	30		80	140	235	1,140	500		470		200	105	105	2290	2920
WHEELER ROAD																				
97+60	101+00	1200		27		20	10	345			330		50		150	60	125	125	380	890
101+00	105+00	1640		20		20	60	715			850		150		220	100			1370	1380
BLISS ROAD																				
106+00	110+00	1440			240	20	390	235	415		1,320		390		250	110			2370	1450
110+00	111+80	1320		41			410	130	280		370		80		150	70			440	980
TOTAL		**5600**	**5790**	**183**	**980**	**105**	**870**	**1590**	**950**	**235**	**4150**	**550**	**670**	**690**	**770**	**640**	**230**	**230**	**7060**	**9120**

DRIVEWAY PAVEMENT, MEDIAN, SIDEWALK, AND BIKE PATH

STATION	STATION	DRIVE PAVEMENT REM	CONC MEDIAN SURF 4	COMB CC&G TB6.12	COMB CC&G TB6.24	CORRUGATED MED	AGG BASE CSE B 4	PC CONC SIDEWALK 5	AGG BASE CSE B 8	HMA SC IL-9.5 D N50 (2")	BIT MATLS PR CT	DETECTABLE WARNINGS	BIT MATLS TACK CT	INCIDENTAL HMA SURF	STAB DRIVE PAVEMENT
STATION	STATION	SQ YD	SQ FT	FOOT	FOOT	SQ FT	SQ YD	SQ FT	SQ YD	TON	PCUND	SQ FT	POUND	TON	SQ YD
ILLINOIS ROUTE 47															
305+48	307+08.60						180	1610	140	15	315	80			
307+08.60	312+46.50						30	200	600	65	1350	80			
WHEELER ROAD															
97+60	101+00						10	50	180	20	405	20	50	20	
101+00	105+00						20	100	380	40	855	40			
BLISS ROAD															
106+00	110+00	185	415	205	205	395			400	45	900				115
110+00	111+80	120					80	810	100	10	225	40			90
TOTAL		**305**	**415**	**205**	**205**	**395**	**320**	**2770**	**1800**	**195**	**4050**	**260**	**50**	**20**	**205**

PATCHING

STATION	STATION	CL D PATCH T3 7	CL D PATCH T4 7	CL D PATCH T3 18	CL D PATCH T4 18
STATION	STATION	SQ YD	SQ YD	SQ YD	SQ YD
ILLINOIS ROUTE 47					
305+48	307+08.60				
307+08.60	312+46.50				
WHEELER ROAD					
97+60	101+00	19			
101+00	105+00	21	57		
BLISS ROAD					
106+00	110+00			19	33
110+00	111+80				
TOTAL		**40**	**57**	**19**	**33**

EARTHWORK QUANTITIES

STATION	EARTH EXCAVATION	AVAILABLE FILL	REQUIRED FILL	EARTHWORK BALANCE WASTE (+) SHORTAGE (-)
	A	B = 0.85 A	C	D = B - C
	CU YD	CU YD	CU YD	CU YD
305+48 TO 307+08.60 (IL 47)	210	179	60	119
307+08.60 TO 312+46.50 (IL 47)	260	221	150	71
97+60 TO 105+00 (WHEELER ROAD)	500	425	721	-296
106+00 TO 111+80 (BLISS ROAD)	1060	901	885	16
TOTAL	**2030**	**1726**	**1816**	**-91**

TREE REMOVAL

STATION	LT/RT	OFFSET	TREE REMOV 6-15 UNIT	TREE REMOV OVER 15 UNIT
108+30	LT	44	14	
108+52	LT	44		16
109+39	LT	45	8	
109+39	LT	44	8	
109+93	LT	40	10	
109+95	LT	51	6	
TOTAL			46	16

Engineering Enterprises, Inc.
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VILLAGE OF SUGAR GROVE
10 S. MUNICIPAL DRIVE
SUGAR GROVE, IL 60554

DESIGNED - CMF	REVISED -	
DRAWN - JPS	REVISED -	
CHECKED - TVW	REVISED -	
DATE - 08/11/2017	REVISED -	

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

BLISS ROAD / WHEELER ROAD AT ILLINOIS ROUTE 47
SCHEDULE OF QUANTITIES

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

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
326	13-00026-00-CH	KANE	107	11
		CONTRACT NO. 61E52		
	ILLINOIS FED. AID PROJECT			

Plotted: 8/21/2019 4:04:21 PM By: jschmidt FILE NAME: h:\SDSKProj\SG1108-Micro\Dgn Final Eng\SG1108-Cvr.dgn

Path: H:\SDSKProj\SG1108-Micro\Dgn Final Eng\SG1108-Cvr.dgn

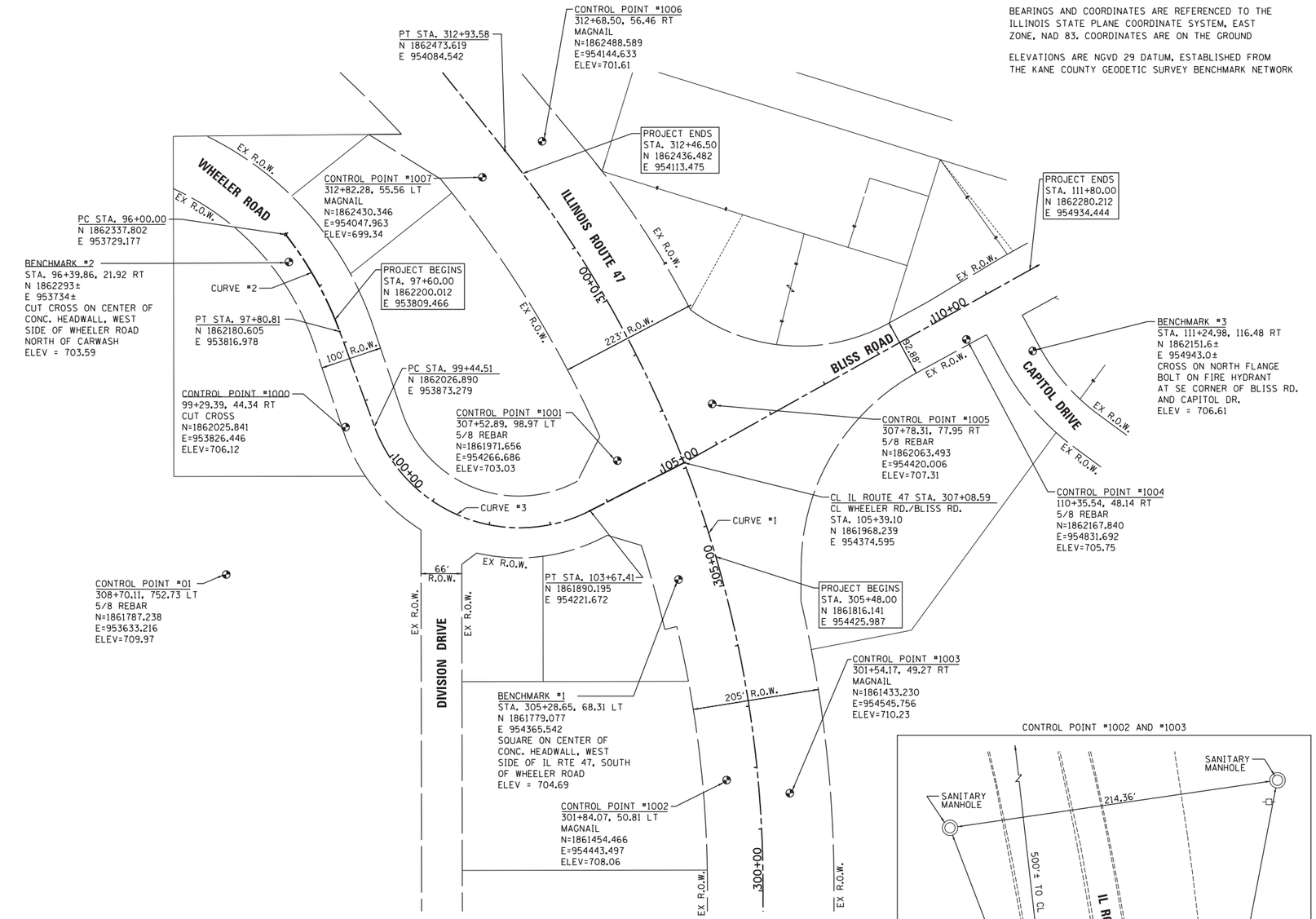
CURVE "1
PI STA. = 306+72.71
Δ = 38° 48' 27" (LT)
D = 3° 00' 00"
R = 1,909.86'
T = 672.71'
L = 1,293.58'
E = 115.01'
e = 4.2% (EX)
T.R. = N/A (EX)
S.E. RUN = N/A (EX)
P.C. STA. = 300+00.00
P.T. STA. = 312+93.58

CURVE "2
PI STA. = 96+91.17
Δ = 18° 08' 16" (RT)
D = 10° 01' 53"
R = 571.16'
T = 91.17'
L = 180.81'
E = 7.23'
e = 6.0% (EX)
T.R. = N/A (EX)
S.E. RUN = N/A (EX)
P.C. STA. = 96+00.00
P.T. STA. = 97+80.81

CURVE "3
PI STA. = 102+26.69
Δ = 96° 55' 16" (LT)
D = 22° 55' 06"
R = 250.00'
T = 282.18'
L = 422.90'
E = 127.00'
e = 6.0% (EX)
T.R. = N/A (EX)
S.E. RUN = N/A (EX)
P.C. STA. = 99+44.51
P.T. STA. = 103+67.41

BEARINGS AND COORDINATES ARE REFERENCED TO THE ILLINOIS STATE PLANE COORDINATE SYSTEM, EAST ZONE, NAD 83. COORDINATES ARE ON THE GROUND

ELEVATIONS ARE NGVD 29 DATUM, ESTABLISHED FROM THE KANE COUNTY GEODETIC SURVEY BENCHMARK NETWORK



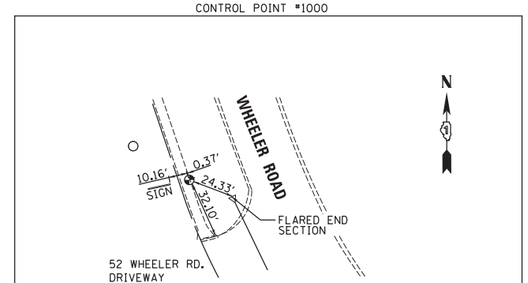
LEGEND

- SECTION CORNER (9, 10, 16, 15)
- QUARTER SECTION CORNER (16, 15)
- SECTION LINE
- QUARTER SECTION LINE
- QUARTER, QUARTER SECTION LINE
- PLATTED LOT LINES
- PROPERTY (DEED) LINE
- APL — APPARENT PROPERTY LINE
- EXISTING CENTERLINE
- PROPOSED CENTERLINE
- EXISTING RIGHT OF WAY LINE
- PROPOSED RIGHT OF WAY LINE
- PROPOSED PERMANENT EASEMENT
- PROPOSED TEMPORARY EASEMENT
- 129.32' — MEASURED DIMENSION
- 129.32' (COMP) — COMPUTED DIMENSION
- (129.32') — RECORDED DIMENSION
- EXISTING BUILDING

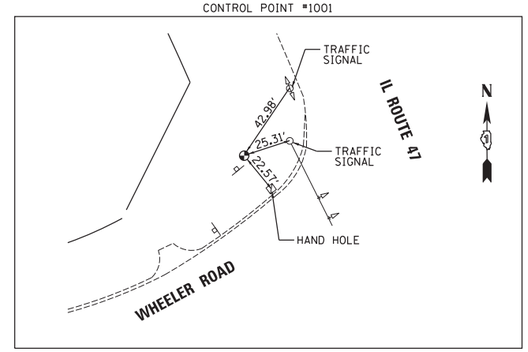
N

GRAPHIC SCALE
FEET
0 100
SCALE: 1" = 100'

CONTROL POINT "1000



CONTROL POINT "1001



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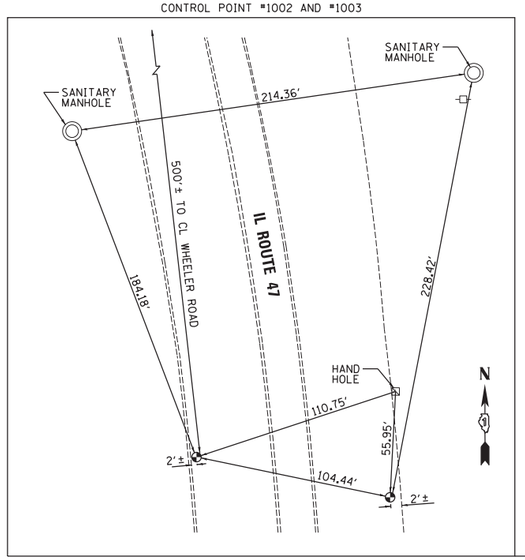

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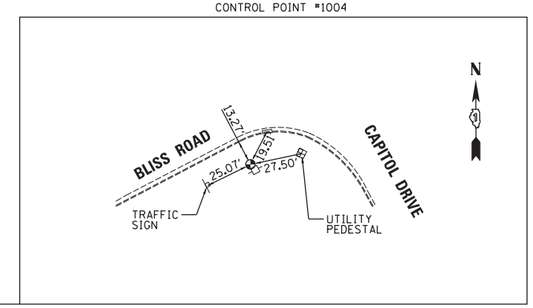

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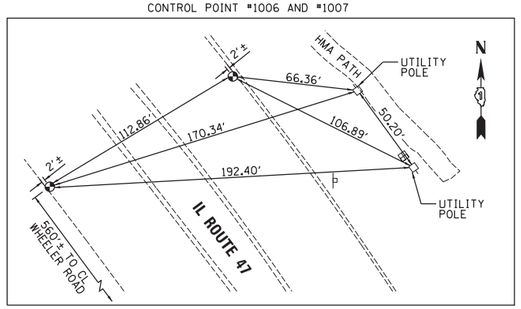

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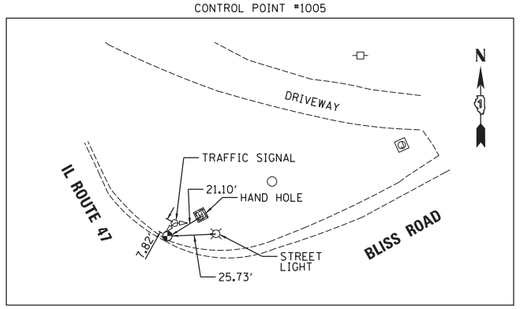

Engineering Enterprises, Inc. CONSULTING ENGINEERS 52 Wheeler Road Sugar Grove, Illinois 60554 630.466.6700 / www.eeiweb.com	VILLAGE OF SUGAR GROVE 10 S. MUNICIPAL DRIVE SUGAR GROVE, IL 60554	DESIGNED - CMF DRAWN - JPS CHECKED - TVW DATE - 08/11/2017	REVISED - REVISED - REVISED - REVISED -

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

BLISS ROAD / WHEELER ROAD AT ILLINOIS ROUTE 47
ALIGNMENT, TIES AND BENCHMARKS

SCALE: 1" = 100' | SHEET NO. 1 OF 1 SHEETS | STA. 305+48.00 TO STA. 312+46.50

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
326	13-00026-00-CH	KANE	107	12
		CONTRACT NO. 61E52		
	ILLINOIS FED. AID PROJECT			

Plotted: 5/30/2018 11:51:42 AM By: jschmidt FILE NAME: H:\SDSKPro\SG1108-Micro\Dgn Final Eng\SG1108-ATB.dgn

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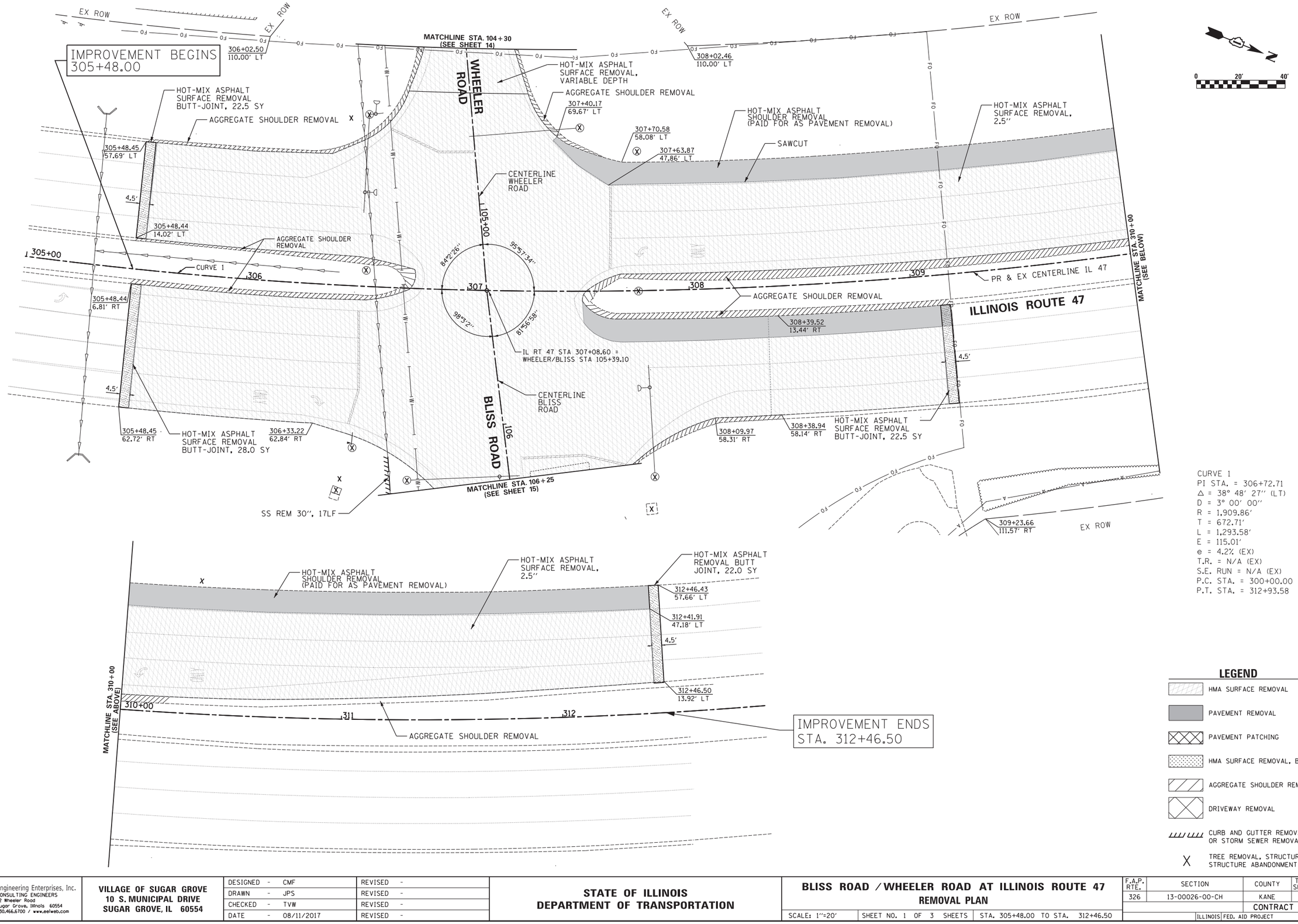

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VILLAGE OF SUGAR GROVE
10 S. MUNICIPAL DRIVE
SUGAR GROVE, IL 60554

DESIGNED - CMF	REVISED -	
DRAWN - JPS	REVISED -	
CHECKED - TVW	REVISED -	
DATE - 08/11/2017	REVISED -	

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

BLISS ROAD / WHEELER ROAD AT ILLINOIS ROUTE 47
REMOVAL PLAN

SCALE: 1"=20' | SHEET NO. 1 OF 3 SHEETS | STA. 305+48.00 TO STA. 312+46.50

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
326	13-00026-00-CH	KANE	107	13
		CONTRACT NO. 61E52		
	ILLINOIS FED. AID PROJECT			

45 WHEELER ROAD
14-16-127-002

WHEELER ROAD
14-16-127-001

EX ROW

97+05.98
53.83' LT

97+89.20
53.83' LT

CURVE 2

97+59.92
16.39' LT

HOT-MIX ASPHALT SURFACE REMOVAL BUTT-JOINT, 15.5 SY

HOT-MIX ASPHALT SURFACE REMOVAL, VARIABLE DEPTH

99+38.47
49.94' LT

SAWCUT AT PAVEMENT EDGE

IMPROVEMENT BEGINS STA. 97+60.00

16.40'

50.3' EXIST. R.O.W.

AGGREGATE SHOULDER REMOVAL

97+80.81
0.00' RT

14.40'

96 97 98 99 100+00

CENTERLINE WHEELER ROAD

WHEELER ROAD

97+60.08
14.43' RT

AGGREGATE SHOULDER REMOVAL

SAWCUT AT PAVEMENT EDGE

99+44.51
0.00' RT

MATCHLINE STA. 101+00 (SEE BELOW)

SAWCUT

AGGREGATE SHOULDER REMOVAL

EX ROW

97+86.59
46.13' RT

99+45.62
15.15' RT

49.7' EXIST. R.O.W.

99+99.09
14.45' RT

REMOVE FES

99+59.33
40.91' RT

REMOVE FES

SS REM 18", 52 LF

SS REM 18", 73 LF

SS REM 18", 22 LF

REMOVE FES

99+80.09
50.00' RT

FIRE HYDRANT TO BE MOVED

99+31 SF HMA CE

52 WHEELER ROAD
14-16-126-001

SIGN

99+58.05
50.15' RT

CURVE 3

100+03.91
49.90' RT

99+78.37
60.01' RT

WHEELER ROAD
14-16-126-002

HOT-MIX ASPHALT SURFACE REMOVAL BUTT-JOINT, 11.5 SY

COMB CONC C&G REMOVAL, 10 LF

0 20' 40'

N

MATCHLINE STA. 101+00 (SEE ABOVE)

EX ROW

WHEELER ROAD
14-16-127-001

EX ROW

EX ROW

103+72.09
51.93' LT

SS REM 18", 40 LF

MATCHLINE STA. 104+30 (SEE SHEET 13)

IL ROUTE 47

HOT-MIX ASPHALT SURFACE REMOVAL, VARIABLE DEPTH

SAWCUT AT PAVEMENT EDGE

103+67.41
0.00' RT

AGGREGATE SHOULDER REMOVAL

101 102 103 104

WHEELER ROAD

SS REM 18", 89 LF

SS REM 18", 55 LF

EX ROW

101+08.98
49.40' RT

101+14.04
59.38' RT

101+28.99
64.78' RT

WHEELER ROAD
14-16-126-002

MANHOLE TO BE REMOVED

COMB CONC C&G REMOVAL, 31 LF

101+88.12
17.10' RT

REMOVE FES

LIGHTING UNIT TO BE RELOCATED

AGGREGATE SHOULDER REMOVAL

SAWCUT AT PAVEMENT EDGE

101+61.97
48.56' RT

103+74.90
48.03' RT

EX ROW

101+90.90
48.97' RT

EX ROW

102+81.29
48.52' RT

MANHOLE TO BE REMOVED

103+69.01
63.14' RT

104+16.55
87.69' RT

101+39.48
92.15' RT

DIVISION DRIVE

EX ROW

101+42.05
95.96' RT

101+69.48
81.05' RT

101+81.23
64.02' RT

101+76.07
72.91' RT

104+00.47
93.09' RT

COMB CONC C&G REMOVAL, 29 LF

HOT-MIX ASPHALT SURFACE REMOVAL BUTT-JOINT, 20.0 SY

88' RT

EX ROW

101+69.64
75.80' RT

670 N. SUGAR GROVE PRKWY

N

0 20' 40'

LEGEND

- HMA SURFACE REMOVAL
- PAVEMENT REMOVAL
- PAVEMENT PATCHING
- HMA SURFACE REMOVAL, BUTT JOINT
- AGGREGATE SHOULDER REMOVAL
- DRIVEWAY REMOVAL
- CURB AND GUTTER REMOVAL OR STORM SEWER REMOVAL
- X TREE REMOVAL, STRUCTURE REMOVAL STRUCTURE ABANDONMENT

Plotted: 8/26/2019 12:30 PM By: jschmidt
FILE NAME: H:\SDSKPro\SG1108-Micro\Dgn Final Eng\SG1108 PLAN SHEETS 205C.dgn
Path: H:\SDSKPro\SG1108-Micro\Dgn Final Eng\SG1108 PLAN SHEETS 205C.dgn

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VILLAGE OF SUGAR GROVE
10 S. MUNICIPAL DRIVE
SUGAR GROVE, IL 60554

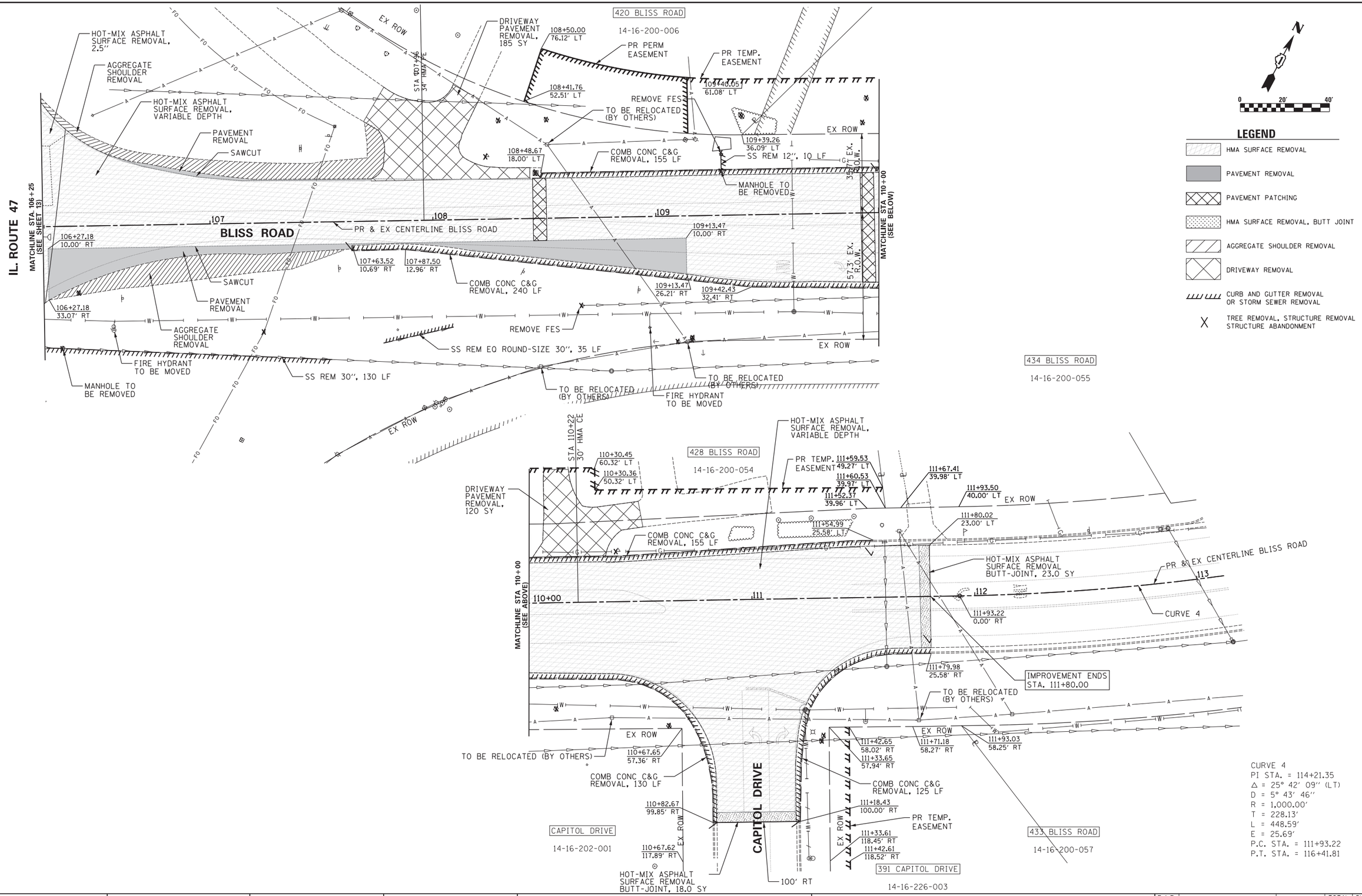
DESIGNED - CMF	REVISED -	
DRAWN - JPS	REVISED -	
CHECKED - TVW	REVISED -	
DATE - 08/11/2017	REVISED -	

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

BLISS ROAD / WHEELER ROAD AT ILLINOIS ROUTE 47
REMOVAL PLAN

SCALE: 1"=20' | SHEET NO. 2 OF 3 SHEETS | STA. 97+60.00 TO STA. 104+30

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
326	13-00026-00-CH	KANE	107	14
		CONTRACT NO. 61E52		
	ILLINOIS FED. AID PROJECT			



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SUGAR GROVE, IL 60554

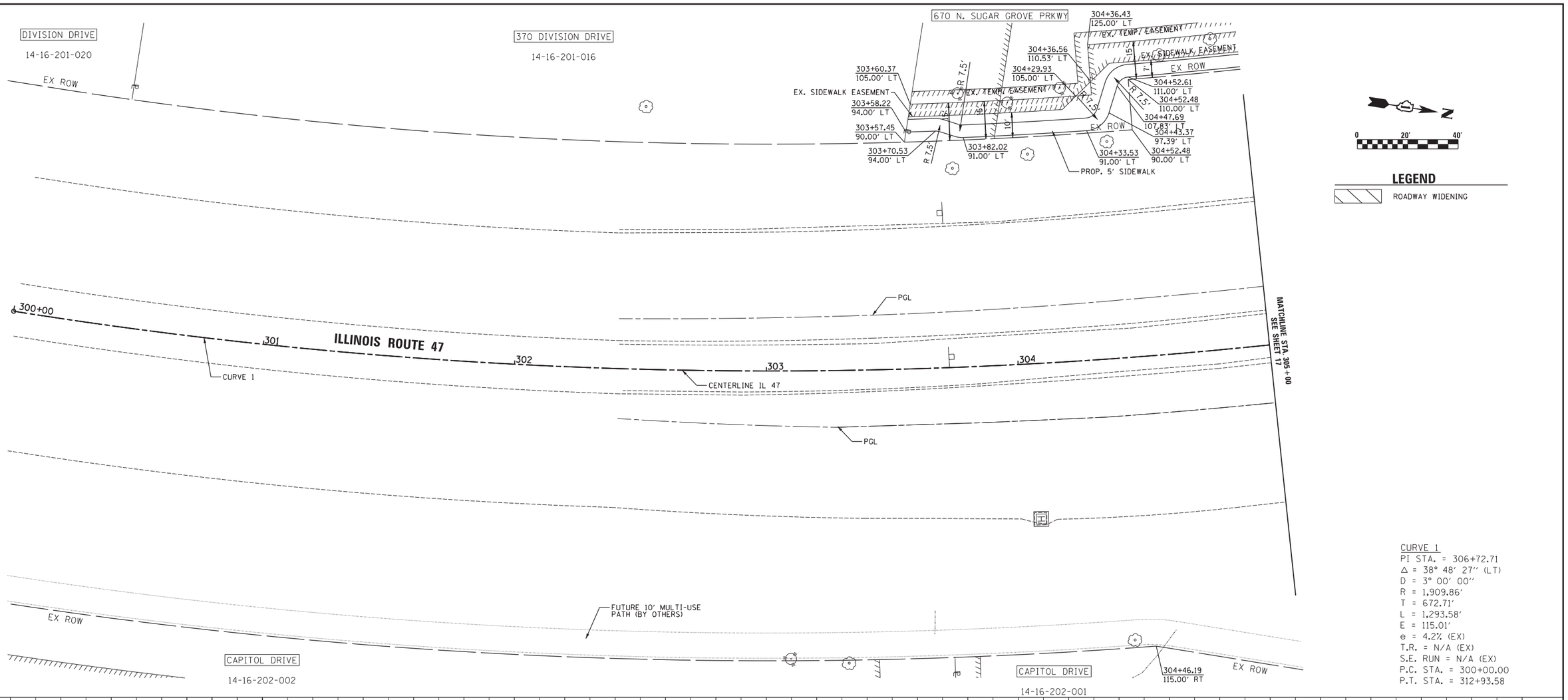
DESIGNED - CMF		REVISED -
DRAWN - JPS		REVISED -
CHECKED - TVW		REVISED -
DATE - 08/11/2017		REVISED -

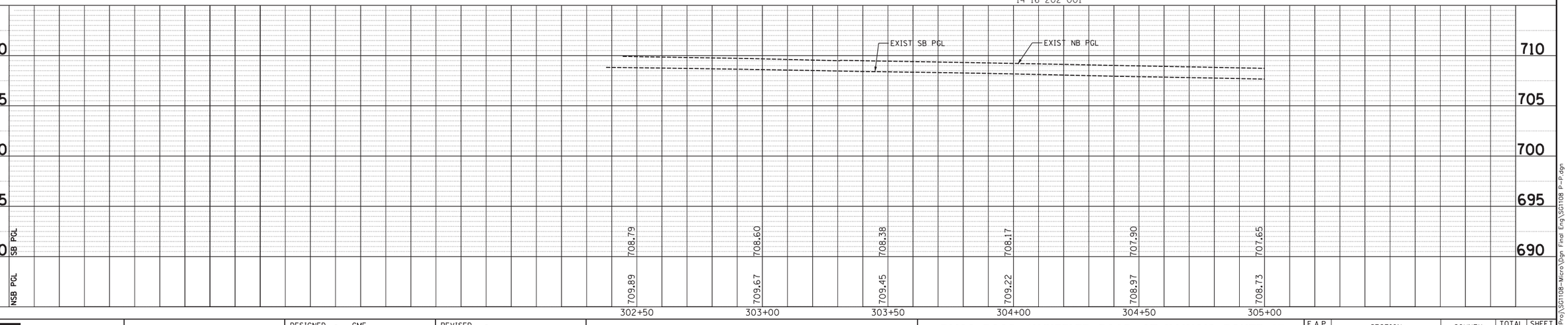
STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

BLISS ROAD / WHEELER ROAD AT ILLINOIS ROUTE 47
REMOVAL PLAN

SCALE: 1"=20' | SHEET NO. 3 OF 3 SHEETS | STA. 106+25 TO STA. 111+80

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
326	13-00026-00-CH	KANE	107	15
		CONTRACT NO. 61E52		
	ILLINOIS FED. AID PROJECT			





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VILLAGE OF SUGAR GROVE
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DESIGNED	- CMF	REVISED	-
DRAWN	- JPS	REVISED	-
CHECKED	- TVW	REVISED	-
DATE	- 08/11/2017	REVISED	-

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

BLISS ROAD / WHEELER ROAD AT ILLINOIS ROUTE 47
PLAN AND PROFILE

SCALE: 1"=20' | SHEET NO. 1 OF 3 SHEETS | STA. 302+26.50 TO STA. 305+00

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
326	13-00026-00-CH	KANE	107	16
		CONTRACT NO. 61E52		
	ILLINOIS FED. AID PROJECT			

PROJECT LIMITS
305+48.00

EX. SIDEWALK EASEMENT
305+94.71
117.00' LT
306+70.04
115.50' LT
306+43.07
116.00' LT
306+02.50
110.00' LT
EX ROW
PROP. 5' SIDEWALK
PROP. 10' MULTI-USE PATH
306+52.37
91.39' LT
306+55.40
76.39' LT
COMBINATION CONCRETE CURB & GUTTER, TYPE B-6.12
R 50'
RESTORATION
306+19.28
58.65' LT
305+48.44
57.69' LT
4' CURB OUTLET

WHEELER ROAD
WHEELER RD HMA MIXES
306+67.87
100.22' LT
306+98.85
89.00' LT
IL 47 HMA MIXES
CENTERLINE WHEELER ROAD
105+00

HOT-MIX ASPHALT SURFACE COURSE, IL-9.5, MIX "D", N70, 1 3/4"
POLYMERIZED HOT-MIX ASPHALT BINDER COURSE, IL-4.75, N50, 3/4"
HOT-MIX ASPHALT SURFACE COURSE, IL-9.5, MIX "D", N70, 1 3/4"
POLYMERIZED HOT-MIX ASPHALT BINDER COURSE, IL-4.75, N50, 3/4"
HOT-MIX ASPHALT BINDER COURSE, IL-19.0, N70, 4 1/4" (2 LIFTS)
R 150'
EX ROW
308+02.46
110.00' LT
COMBINATION CONCRETE CURB & GUTTER, TYPE B-6.12
307+54.79
107.46' LT
307+34.20
107.02' LT
307+39.07
97.40' LT
PROP. 10' MULTI-USE PATH
307+94.41
78.40' LT
307+46.58
82.23' LT
R 100'
R 50'
307+86.23
61.58' LT
307+89.94
59.00' LT
307+96.56
61.58' LT
COMBINATION CONCRETE CURB & GUTTER, TYPE M-6.24
POLYMERIZED HOT-MIX ASPHALT SURFACE COURSE, IL-9.5, MIX "E", N70, 1 3/4"
POLYMERIZED HOT-MIX ASPHALT BINDER COURSE, IL-4.75, N50, 3/4"
HOT-MIX ASPHALT BINDER COURSE, IL-19.0, N90, 8 3/4" (3 LIFTS)
POLYMERIZED HOT-MIX ASPHALT SURFACE COURSE, IL-9.5, MIX "E", N70, 1 3/4"
POLYMERIZED HOT-MIX ASPHALT BINDER COURSE, IL-4.75, N50, 3/4"
215' STORAGE

N
0 20' 40'

LEGEND
ROADWAY WIDENING

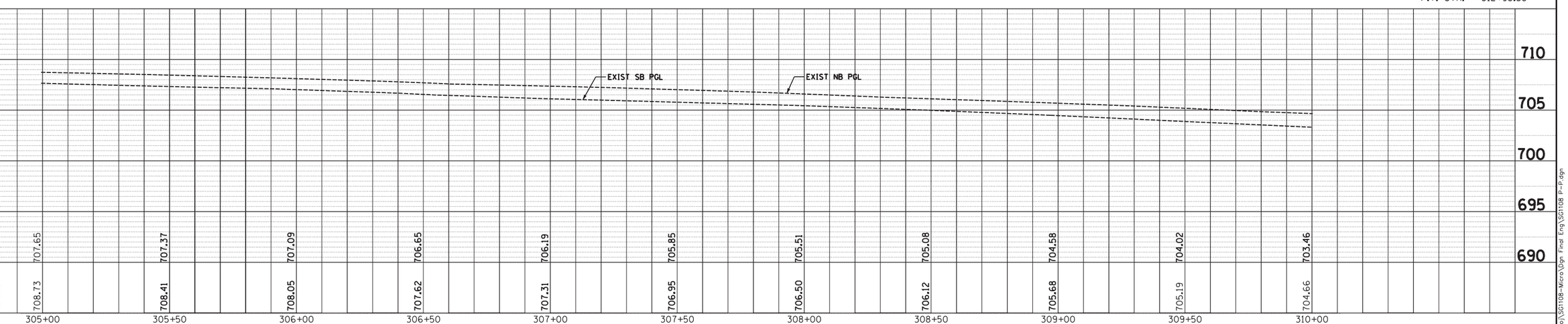
MATCHLINE STA. 305+00
SEE SHEET 16
305+00
PGL
305+48.44
14.02' LT
RESTORATION
306+46.89
13.37' LT
R 8'
305+98.93
13.79' LT
306+37.14
13.55' LT
306+54.75
5.37' LT
306
84°27'26"
95°57'34"
307
105+00
306+54.74
2.28' LT
306+54.33
6.06' RT
306+46.73
5.72' RT
CURVE 1
PAVED SHOULDER
305+48.44
5.72' RT
305+48.44
6.64' RT
PGL
98°3'2"
81°56'58"
IL RT 47 STA 307+08.60 =
WHEELER/BLISS STA 105+39.10

307+69.11
7.63' LT
308+07.83
5.00' LT
PAVED SHOULDER
309
308
R 8'
RESTORATION
308+30.31
13.38' RT
309+16.98
13.72' RT
CENTERLINE IL 47
ILLINOIS ROUTE 47
308+01.48
5.73' RT
307+69.15
23.15' RT
308+07.71
10.80' RT
PGL
MATCHLINE STA. 310+00
SEE SHEET 18

305+48.53
62.99' RT
305+48.44
63.72' RT
PAVED SHOULDER
306+24.82
63.72' RT
305+48.44
63.72' RT
4' CURB OUTLET
COMBINATION CONCRETE CURB & GUTTER, TYPE B-6.24
306+55.08
75.32' RT
306+73.71
89.88' RT
307+07.41
92.95' RT
R 65'
R 175'
306+74.64
96.16' RT
306+57.40
100.07' RT
307+20.81
90.50' RT
CENTERLINE BLISS ROAD
IL 47 HMA MIXES
106
BLISS RD HMA MIXES
BLISS ROAD
PROP. 10' MULTI-USE PATH
R 180'
FUTURE 10' MULTI-USE PATH (BY OTHERS)
EX ROW

308+21.96
58.38' RT
308+38.93
58.35' RT
309+16.93
58.39' RT
307+95.75
67.31' RT
4' CURB OUTLET
COMBINATION CONCRETE CURB & GUTTER, TYPE B-6.24
R 75'
R 100'
307+98.15
74.67' RT
PROP. 10' MULTI-USE PATH
307+75.49
82.15' RT
308+11.12
86.09' RT
308+30.03
86.39' RT
HOT-MIX ASPHALT SURFACE COURSE, IL-9.5, MIX "D", N70, 1 3/4"
POLYMERIZED HOT-MIX ASPHALT BINDER COURSE, IL-4.75, N50, 3/4"
HOT-MIX ASPHALT SURFACE COURSE, IL-9.5, MIX "D", N70, 1 3/4"
POLYMERIZED HOT-MIX ASPHALT BINDER COURSE, IL-4.75, N50, 3/4"
HOT-MIX ASPHALT BINDER COURSE, IL-19.0, N70, 6 1/2" (3 LIFTS)
R 100'
EX ROW
309+23.66
111.57' RT
15'
PR PERM EASEMENT
EX ROW
309+33.05
126.58' RT

CURVE 1
PI STA. = 306+72.71
Δ = 38° 48' 27" (LT)
D = 3° 00' 00"
R = 1,909.86'
T = 672.71'
L = 1,293.58'
E = 115.01'
e = 4.2% (EX)
T.R. = N/A (EX)
S.E. RUN = N/A (EX)
P.C. STA. = 300+00.00
P.T. STA. = 312+93.58



Engineering Enterprises, Inc.
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52 Wheeler Road
Sugar Grove, Illinois 60554
630.466.6700 / www.eeiweb.com

VILLAGE OF SUGAR GROVE
10 S. MUNICIPAL DRIVE
SUGAR GROVE, IL 60554

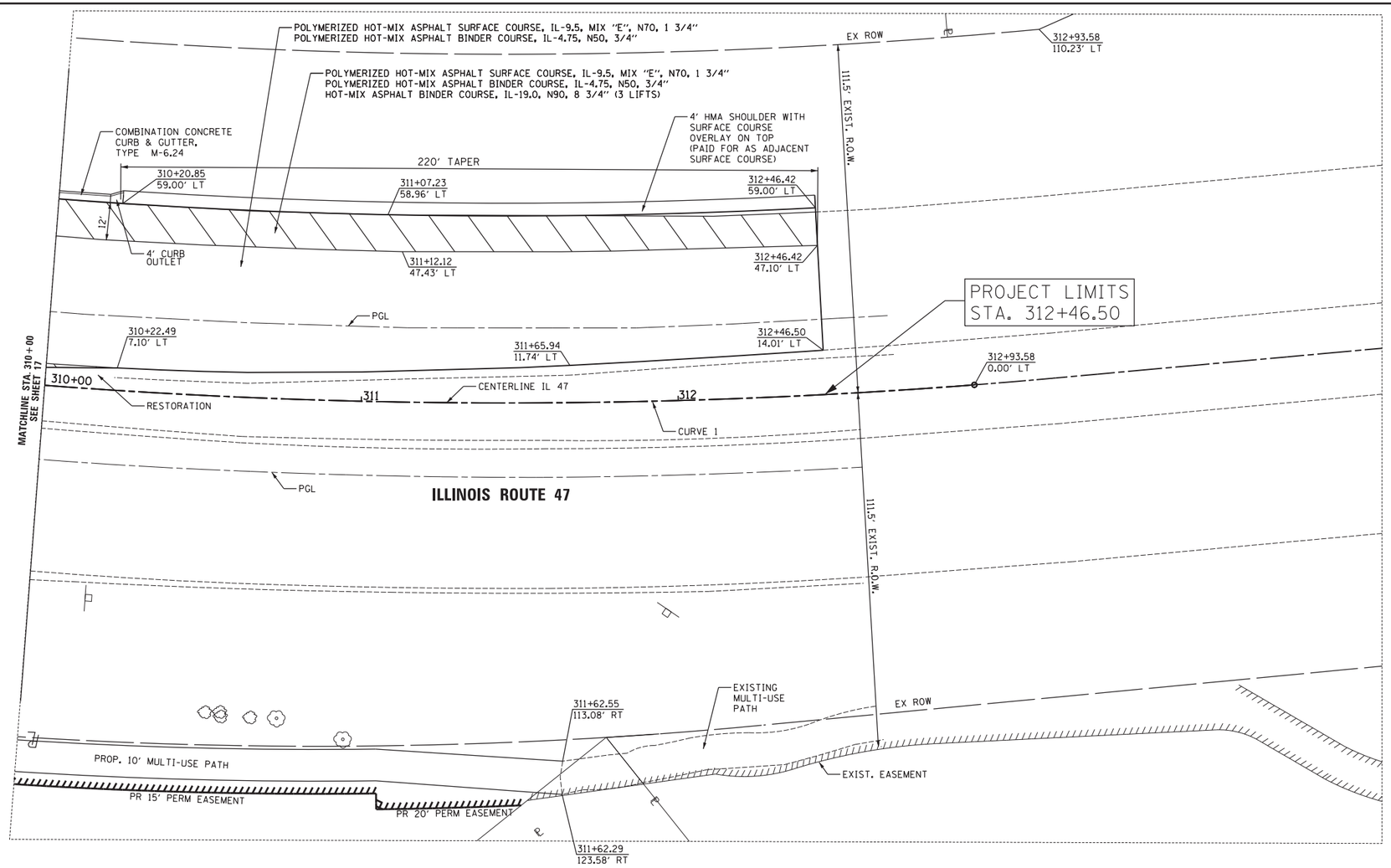
DESIGNED	- CMF	REVISED	-
DRAWN	- JPS	REVISED	-
CHECKED	- TVW	REVISED	-
DATE	- 08/11/2017	REVISED	-

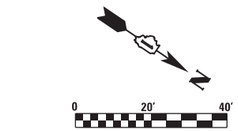
STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

BLISS ROAD / WHEELER ROAD AT ILLINOIS ROUTE 47
PLAN AND PROFILE

SCALE: 1"=20' | SHEET NO. 2 OF 3 SHEETS | STA. 305+00 TO STA. 310+00

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
326	13-00026-00-CH	KANE	107	17
		CONTRACT NO. 61E52		
	ILLINOIS FED. AID PROJECT			

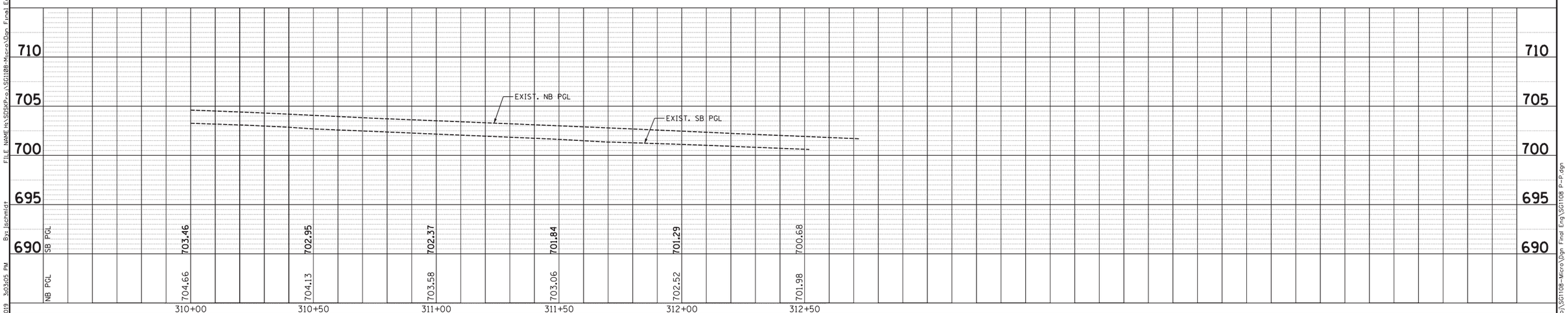




LEGEND

ROADWAY WIDENING

CURVE 1
PI STA. = 306+72.71
Δ = 38° 48' 27" (LT)
D = 3° 00' 00"
R = 1,909.86'
T = 672.71'
L = 1,293.58'
E = 115.01'
e = 4.2% (EX)
T.R. = N/A (EX)
S.E. RUN = N/A (EX)
P.C. STA. = 300+00.00
P.T. STA. = 312+93.58



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VILLAGE OF SUGAR GROVE
10 S. MUNICIPAL DRIVE
SUGAR GROVE, IL 60554

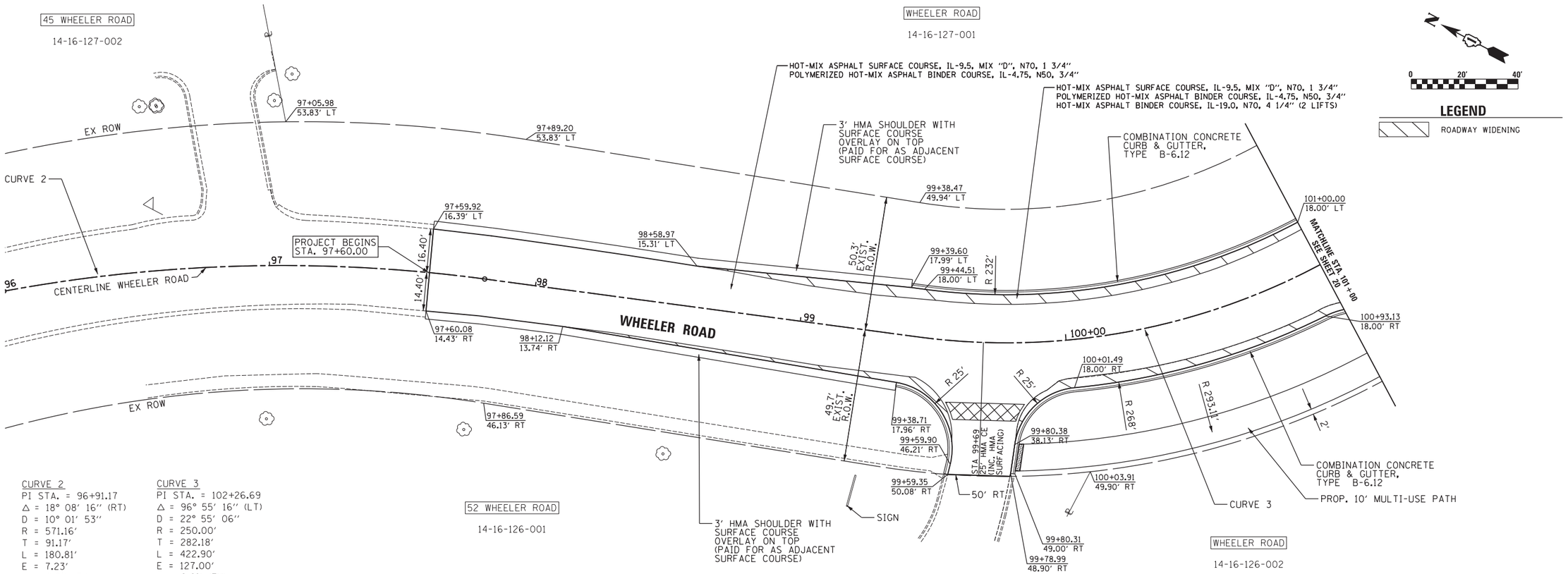
DESIGNED	- CMF	REVISED	-
DRAWN	- JPS	REVISED	-
CHECKED	- TVW	REVISED	-
DATE	- 08/11/2017	REVISED	-

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

BLISS ROAD / WHEELER ROAD AT ILLINOIS ROUTE 47
PLAN AND PROFILE

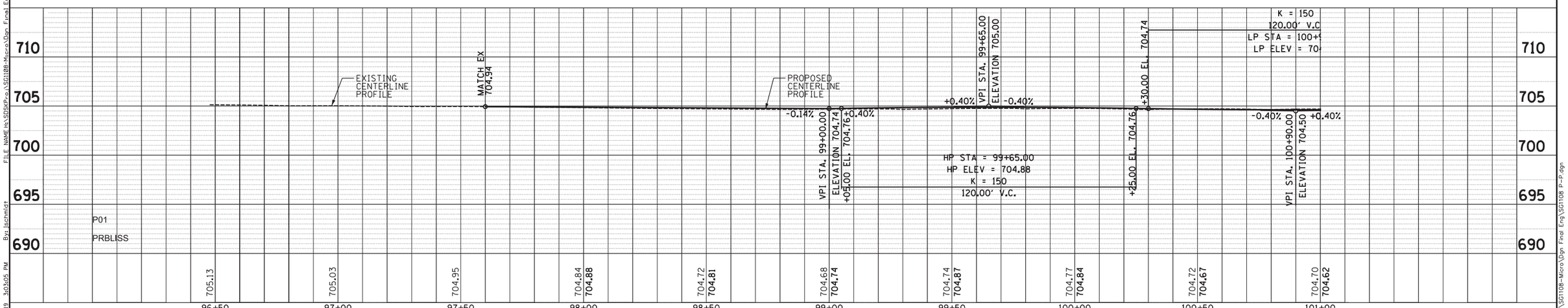
SCALE: 1"=20' | SHEET NO. 3 OF 3 SHEETS | STA. 310+00 TO STA. 312+46.50

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
326	13-00026-00-CH	KANE	107	18
		CONTRACT NO. 61E52		
	ILLINOIS FED. AID PROJECT			



CURVE 2
PI STA. = 96+91.17
Δ = 18° 08' 16" (RT)
D = 10° 01' 53"
R = 571.16'
T = 91.17'
L = 180.81'
E = 7.23'
e = 6.0% (EX)
T.R. = N/A (EX)
S.E. RUN = N/A (EX)
P.C. STA. = 96+00.00
P.T. STA. = 97+80.81

CURVE 3
PI STA. = 102+26.69
Δ = 96° 55' 16" (LT)
D = 22° 55' 06"
R = 250.00'
T = 282.18'
L = 422.90'
E = 127.00'
e = 6.0% (EX)
T.R. = N/A (EX)
S.E. RUN = N/A (EX)
P.C. STA. = 99+44.51
P.T. STA. = 103+67.41



P01
PRBLISS

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VILLAGE OF SUGAR GROVE
10 S. MUNICIPAL DRIVE
SUGAR GROVE, IL 60554

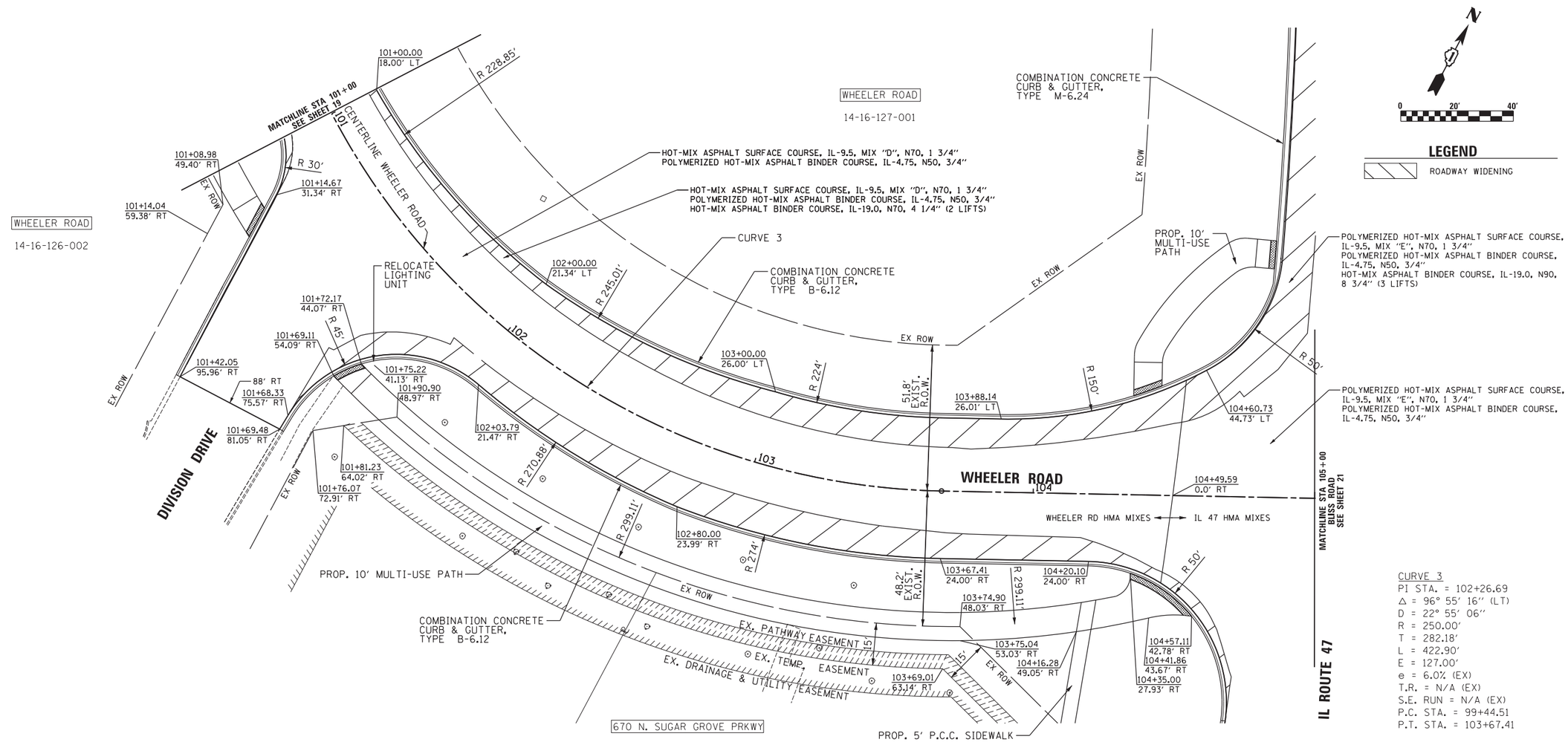
DESIGNED - CMF	REVISED -	
DRAWN - JPS	REVISED -	
CHECKED - TVW	REVISED -	
DATE - 08/11/2017	REVISED -	

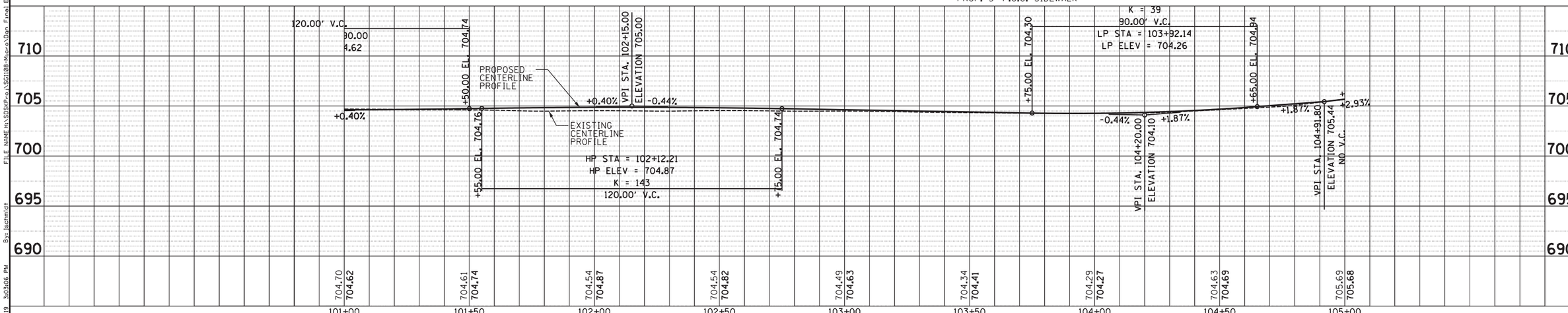
STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

BLISS ROAD / WHEELER ROAD AT ILLINOIS ROUTE 47
PLAN AND PROFILE

SCALE: 1"=20' | SHEET NO. 1 OF 2 SHEETS | STA. 97+60.00 TO STA. 101+00

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
326	13-00026-00-CH	KANE	107	19
		CONTRACT NO. 61E52		
	ILLINOIS FED. AID PROJECT			





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VILLAGE OF SUGAR GROVE
10 S. MUNICIPAL DRIVE
SUGAR GROVE, IL 60554

DESIGNED	- CMF	REVISED	-
DRAWN	- JPS	REVISED	-
CHECKED	- TVW	REVISED	-
DATE	- 08/11/2017	REVISED	-

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

BLISS ROAD / WHEELER ROAD AT ILLINOIS ROUTE 47
PLAN AND PROFILE

SCALE: 1"=20' | SHEET NO. 2 OF 2 SHEETS | STA. 101+00 TO STA. 105+00

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
326	13-00026-00-CH	KANE	107	20
		CONTRACT NO. 61E52		
	ILLINOIS FED. AID PROJECT			

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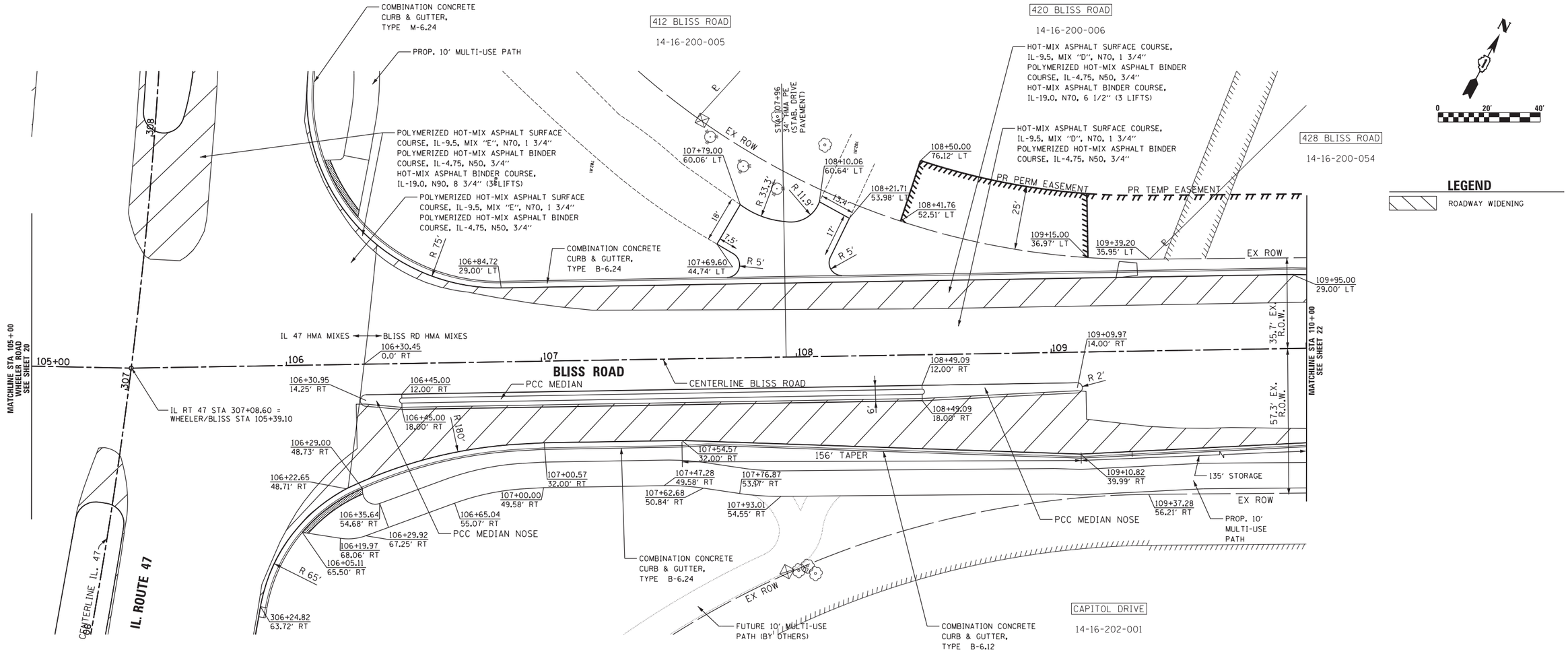

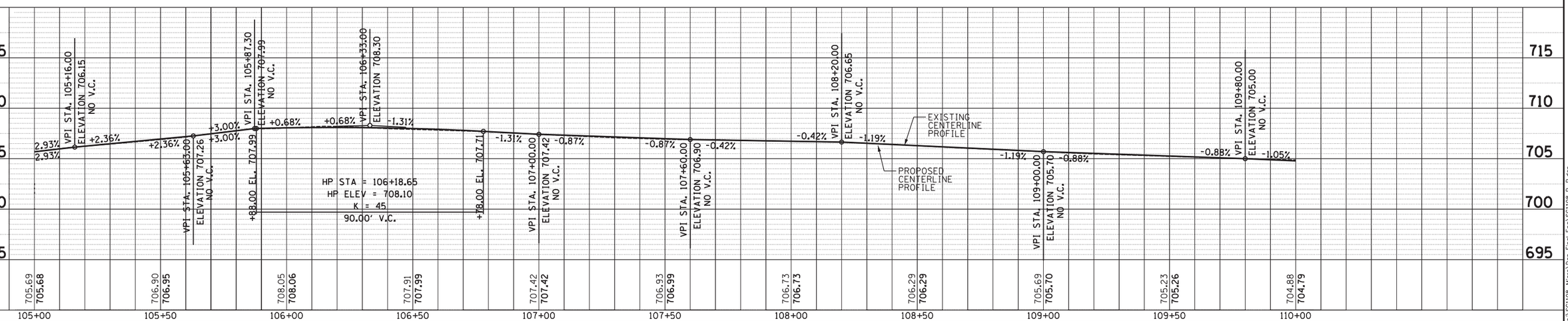

Engineering Enterprises, Inc. CONSULTING ENGINEERS 52 Wheeler Road Sugar Grove, Illinois 60554 630.466.6700 / www.eeiweb.com	VILLAGE OF SUGAR GROVE 10 S. MUNICIPAL DRIVE SUGAR GROVE, IL 60554	DESIGNED - CMF DRAWN - JPS CHECKED - TVW DATE - 08/11/2017	REVISED - REVISED - REVISED - REVISED -

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

BLISS ROAD / WHEELER ROAD AT ILLINOIS ROUTE 47
PLAN AND PROFILE

SCALE: 1"=20' | SHEET NO. 1 OF 2 SHEETS | STA. 105+00 TO STA. 110+00

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
326	13-00026-00-CH	KANE	107	21
		CONTRACT NO. 61E52		
		ILLINOIS FED. AID PROJECT		

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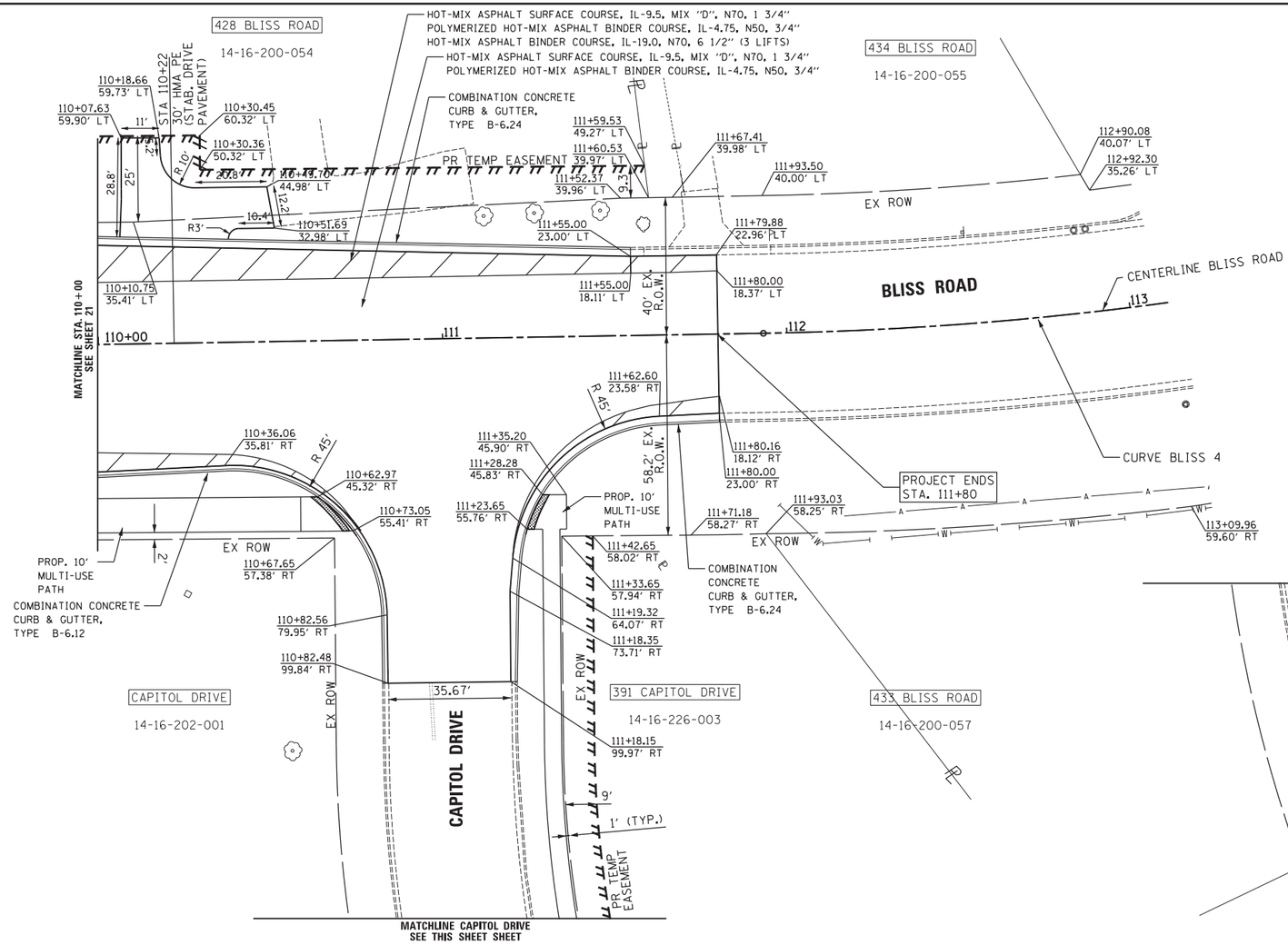

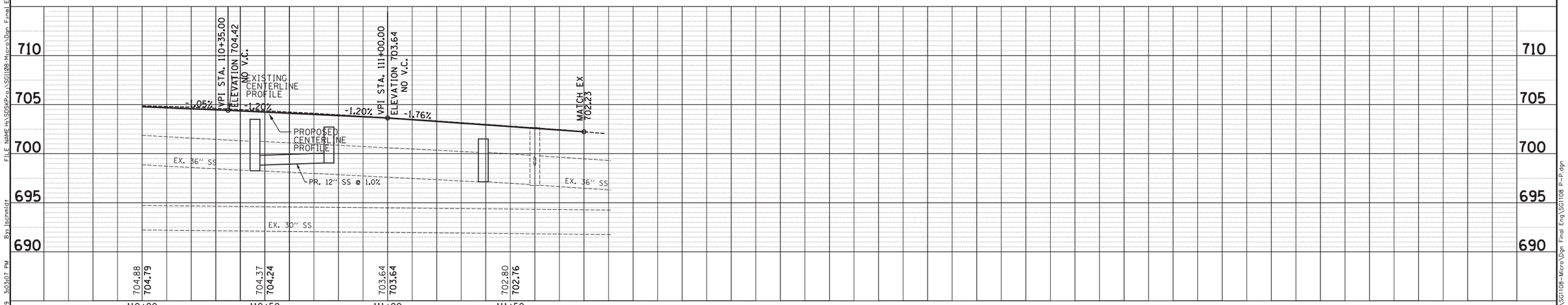

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VILLAGE OF SUGAR GROVE
10 S. MUNICIPAL DRIVE
SUGAR GROVE, IL 60554

DESIGNED	CMF	REVISED	-
DRAWN	JPS	REVISED	-
CHECKED	TVW	REVISED	-
DATE	08/11/2017	REVISED	-

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

BLISS ROAD / WHEELER ROAD AT ILLINOIS ROUTE 47
PLAN AND PROFILE

SCALE: 1"=20' | SHEET NO. 2 OF 2 SHEETS | STA. 110+00 TO STA. 115+00

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
326	13-00026-00-CH	KANE	107	22
		CONTRACT NO. 61E52		
	ILLINOIS FED. AID PROJECT			

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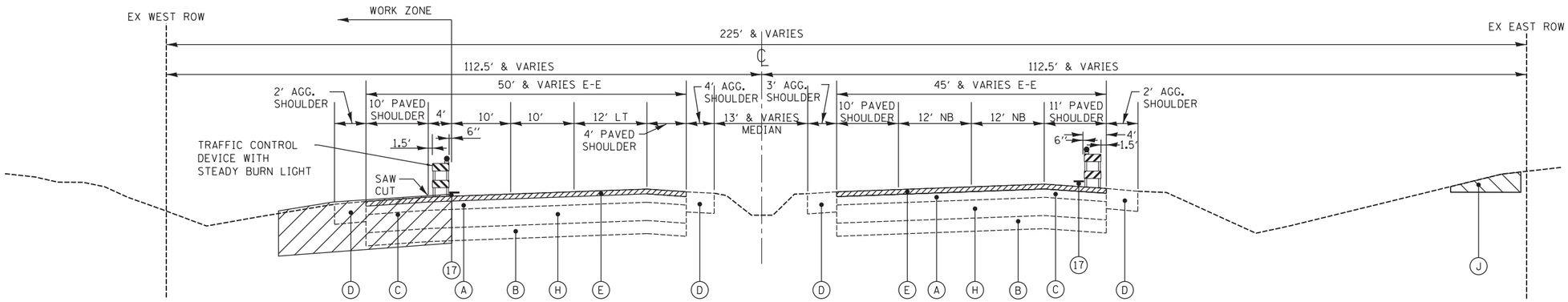
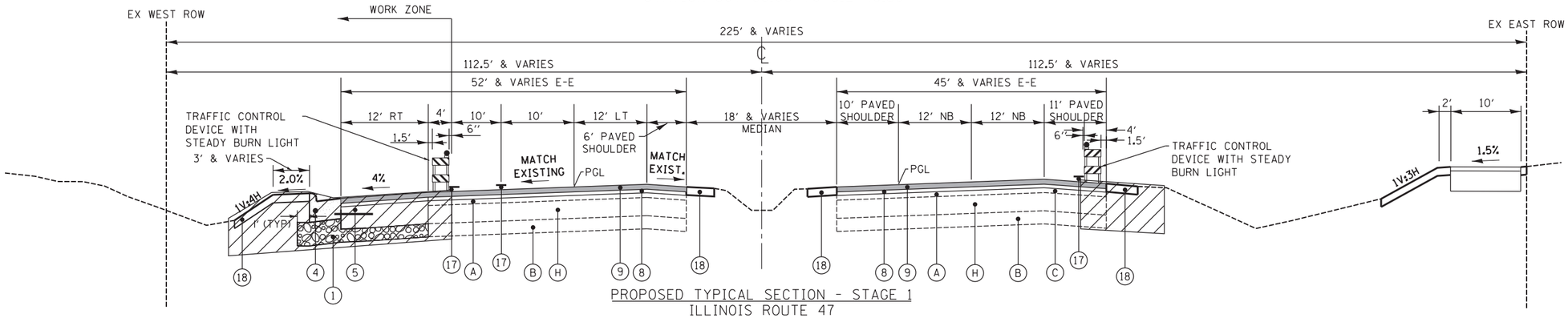
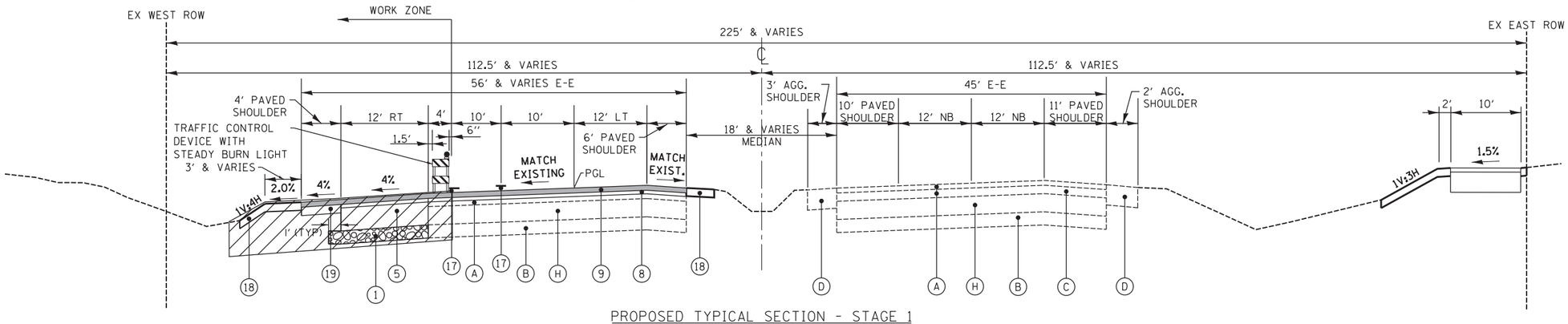


EXISTING TYPICAL SECTION - STAGE 1
ILLINOIS ROUTE 47
STATION 307+08.60 TO 312+46.50



PROPOSED TYPICAL SECTION - STAGE 1
ILLINOIS ROUTE 47
SB STATION 307+08.60 TO 310+20.85
NB STATION 307+08.60 TO 309+16.98



PROPOSED TYPICAL SECTION - STAGE 1
ILLINOIS ROUTE 47
SB STATION 310+20.85 TO 312+46.50
NB STATION 309+16.98 TO 312+46.50

EXISTING LEGEND

- (A) EXISTING ASPHALT PAVEMENT
- (B) EXISTING POZZOLANIC COURSE
- (C) EXISTING PAVED SHOULDER
- (D) EXISTING AGGREGATE SHOULDER
- (E) HOT-MIX ASPHALT SURFACE REMOVAL, 2 1/2"
- (F) HOT-MIX ASPHALT SURFACE REMOVAL VARIABLE DEPTH
- (G) EXISTING SIDEWALK
- (H) EXISTING CONCRETE PAVEMENT
- (I) EXISTING AGGREGATE BASE
- (J) EARTH EXCAVATION
- REMOVAL ITEMS

PROPOSED LEGEND

- (1) AGGREGATE SUBGRADE, 12"
- (2) COMBINATION CONCRETE CURB AND GUTTER, TYPE B-6.12
- (3) COMBINATION CONCRETE CURB AND GUTTER, TYPE B-6.24
- (4) COMBINATION CONCRETE CURB AND GUTTER, TYPE M-6.24
- (5) HOT-MIX ASPHALT BINDER COURSE, IL-19.0, N90, 8 3/4"
- (6) HOT-MIX ASPHALT BINDER COURSE, IL-19.0, N70, 6 1/2"
- (7) HOT-MIX ASPHALT BINDER COURSE, IL-19.0, N70, 4 1/4"
- (8) POLYMERIZED HOT-MIX ASPHALT BINDER COURSE, IL-4.75, N50, 3/4"
- (9) POLYMERIZED HOT-MIX ASPHALT SURFACE COURSE, IL-9.5, MIX "E", N70, 1 3/4"
- (10) HOT-MIX ASPHALT SURFACE COURSE, IL-9.5, MIX "D", N70, 1 3/4"
- (11) CONCRETE MEDIAN SURFACE, 4"
- (12) AGGREGATE BASE COURSE, TYPE B, 4"
- (13) PORTLAND CEMENT CONCRETE SIDEWALK, 5"
- (14) AGGREGATE BASE COURSE, TYPE B, 8"
- (15) HOT-MIX ASPHALT SURFACE COURSE, MIX "D", N50, 2"
- (16) BITUMINOUS MATERIALS (PRIME COAT)
- (17) PAVEMENT MARKING LINE (SEE PLANS FOR WIDTH)
- (18) TOPSOIL, 4", SEEDING, FERTILIZER AND EROSION CONTROL BLANKET
- (19) HMA SHOULDERS, 8" W/ SUBBASE GRANULAR MATERIAL TYPE B 4"

Engineering Enterprises, Inc.
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VILLAGE OF SUGAR GROVE
10 S. MUNICIPAL DRIVE
SUGAR GROVE, IL 60554

DESIGNED	CMF	REVISED	-
DRAWN	JPS	REVISED	-
CHECKED	TVW	REVISED	-
DATE	08/11/2017	REVISED	-

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

BLISS ROAD / WHEELER ROAD AT ILLINOIS ROUTE 47
SUGGESTED CONSTRUCTION STAGING PLAN – STAGE 1

SCALE: N.T.S. | SHEET NO. 1 OF 5 SHEETS | STA. | TO STA.

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
326	13-00026-00-CH	KANE	107	23
		CONTRACT NO. 61E52		
		ILLINOIS FED. AID PROJECT		

Plotted: 8/26/2019 4:50:20 PM By: lschmidt
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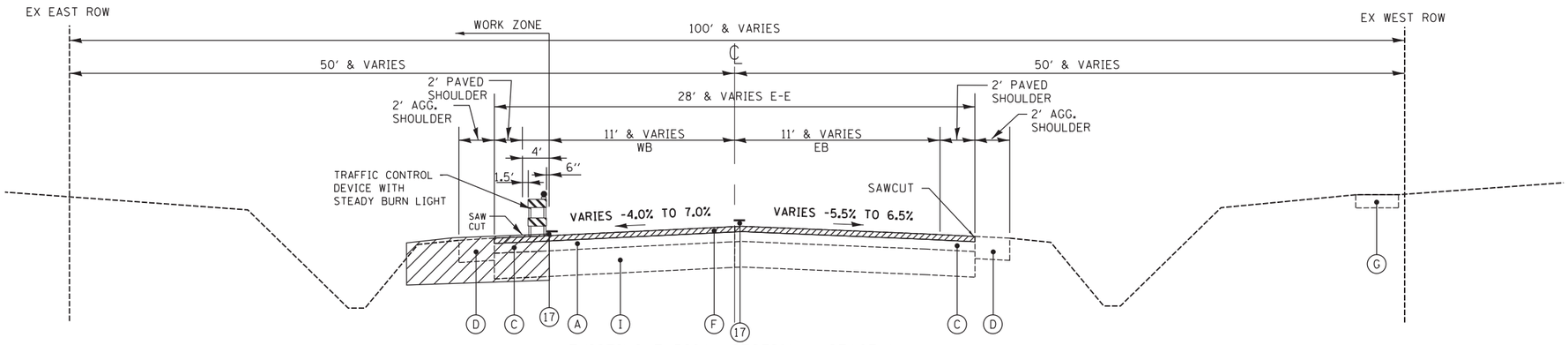
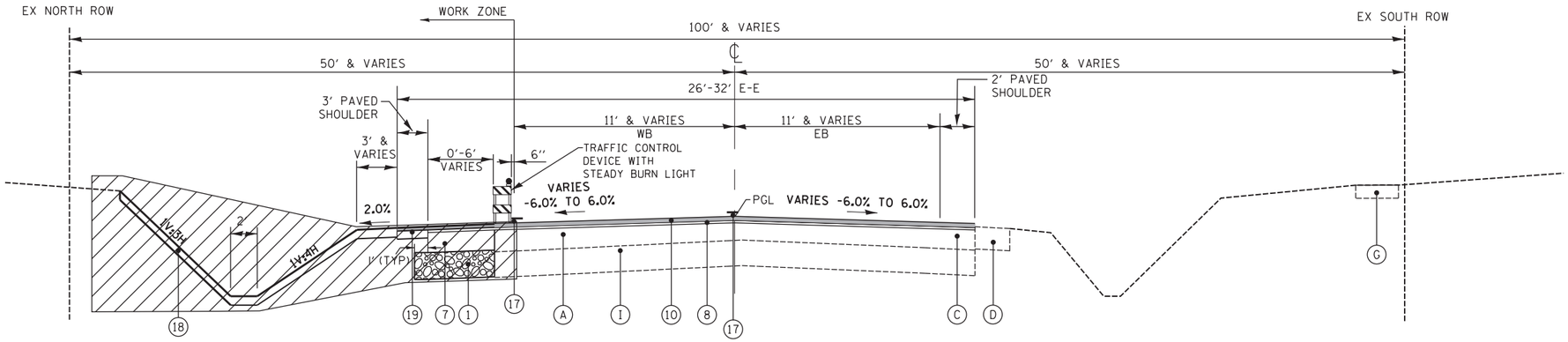
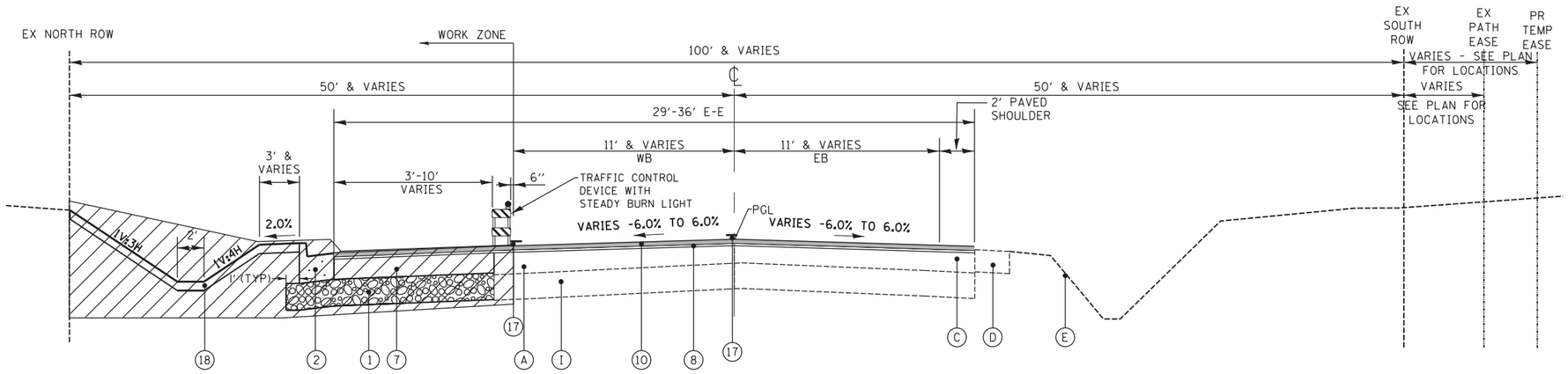


EXISTING TYPICAL SECTION - STAGE 1
WHEELER ROAD
STATION 97+60 TO 104+49.59



PROPOSED TYPICAL SECTION - STAGE 1
WHEELER ROAD
STATION 97+60 TO 99+40



PROPOSED TYPICAL SECTION - STAGE 1
WHEELER ROAD
STATION 99+40 TO 104+49.59

EXISTING LEGEND

- (A) EXISTING ASPHALT PAVEMENT
- (B) EXISTING POZZOLANIC COURSE
- (C) EXISTING PAVED SHOULDER
- (D) EXISTING AGGREGATE SHOULDER
- (E) HOT-MIX ASPHALT SURFACE REMOVAL, 2 1/2"
- (F) HOT-MIX ASPHALT SURFACE REMOVAL VARIABLE DEPTH
- (G) EXISTING SIDEWALK
- (H) EXISTING CONCRETE PAVEMENT
- (I) EXISTING AGGREGATE BASE
- (J) EARTH EXCAVATION

REMOVAL ITEMS

PROPOSED LEGEND

- (1) AGGREGATE SUBGRADE, 12"
- (2) COMBINATION CONCRETE CURB AND GUTTER, TYPE B-6.12
- (3) COMBINATION CONCRETE CURB AND GUTTER, TYPE B-6.24
- (4) COMBINATION CONCRETE CURB AND GUTTER, TYPE M-6.24
- (5) HOT-MIX ASPHALT BINDER COURSE, IL-19.0, N90, 8 3/4"
- (6) HOT-MIX ASPHALT BINDER COURSE, IL-19.0, N70, 6 1/2"
- (7) HOT-MIX ASPHALT BINDER COURSE, IL-19.0, N70, 4 1/4"
- (8) POLYMERIZED HOT-MIX ASPHALT BINDER COURSE, IL-4.75, N50, 3/4"
- (9) POLYMERIZED HOT-MIX ASPHALT SURFACE COURSE, IL-9.5, MIX "E", N70, 1 3/4"
- (10) HOT-MIX ASPHALT SURFACE COURSE, IL-9.5, MIX "D", N70, 1 3/4"
- (11) CONCRETE MEDIAN SURFACE, 4"
- (12) AGGREGATE BASE COURSE, TYPE B, 4"
- (13) PORTLAND CEMENT CONCRETE SIDEWALK, 5"
- (14) AGGREGATE BASE COURSE, TYPE B, 8"
- (15) HOT-MIX ASPHALT SURFACE COURSE, MIX "D", N50, 2"
- (16) BITUMINOUS MATERIALS (PRIME COAT)
- (17) PAVEMENT MARKING LINE (SEE PLANS FOR WIDTH)
- (18) TOPSOIL, 4", SEEDING, FERTILIZER AND EROSION CONTROL BLANKET
- (19) HMA SHOULDERS, 8" W/ SUBBASE GRANULAR MATERIAL TYPE B 4"

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VILLAGE OF SUGAR GROVE
10 S. MUNICIPAL DRIVE
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DESIGNED - CMF	REVISED -	
DRAWN - JPS	REVISED -	
CHECKED - TVW	REVISED -	
DATE - 08/11/2017	REVISED -	

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

BLISS ROAD / WHEELER ROAD AT ILLINOIS ROUTE 47
SUGGESTED CONSTRUCTION STAGING PLAN – STAGE 1

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

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
326	13-00026-00-CH	KANE	107	24
		CONTRACT NO. 61E52		
	ILLINOIS FED. AID PROJECT			

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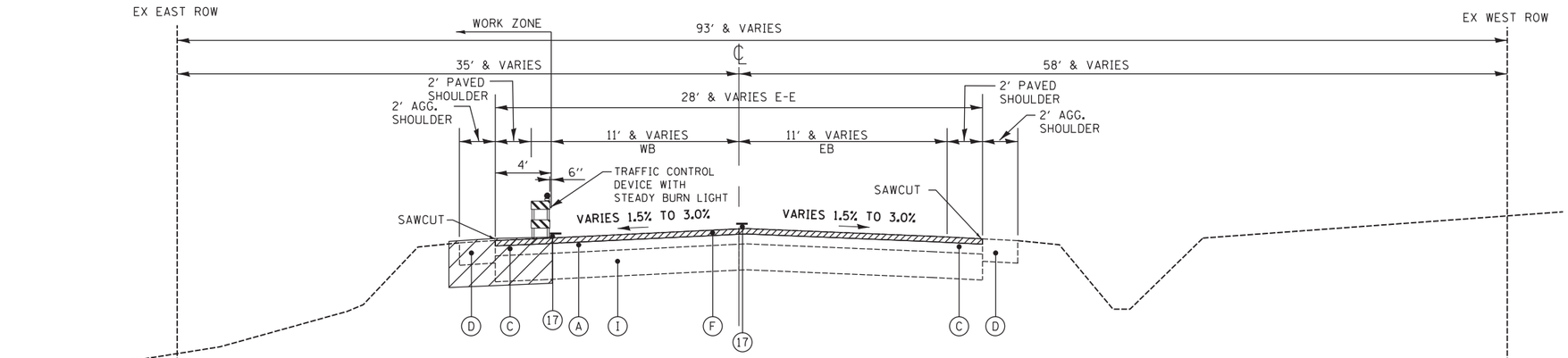
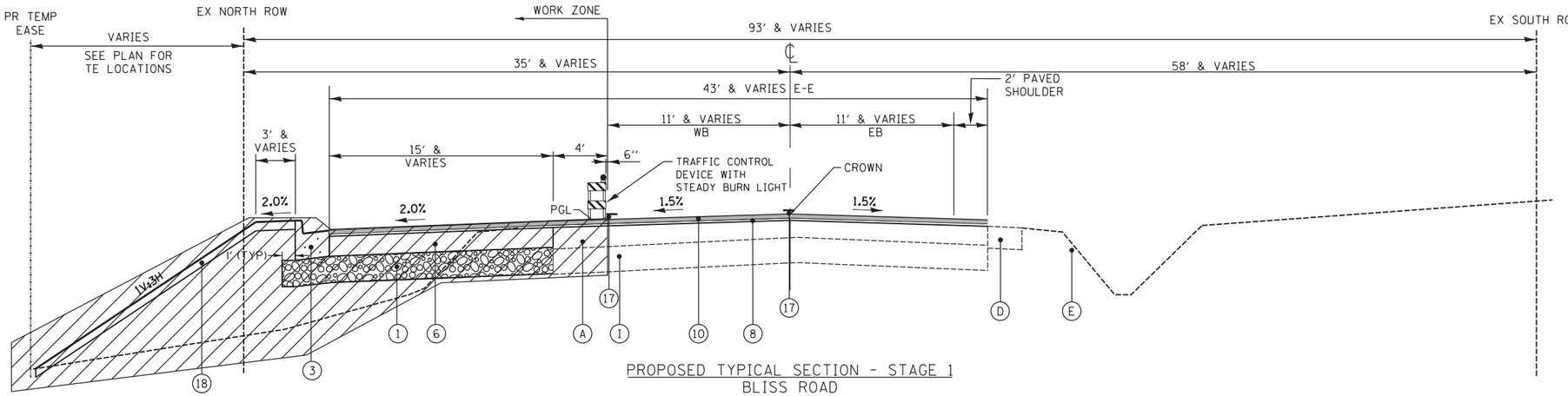


EXISTING TYPICAL SECTION - STAGE 1
BLISS ROAD
STATION 106+30.45 TO 111+80



PROPOSED TYPICAL SECTION - STAGE 1
BLISS ROAD
STATION 106+30.45 TO 111+80

EXISTING LEGEND

- (A) EXISTING ASPHALT PAVEMENT
- (B) EXISTING POZZOLANIC COURSE
- (C) EXISTING PAVED SHOULDER
- (D) EXISTING AGGREGATE SHOULDER
- (E) HOT-MIX ASPHALT SURFACE REMOVAL, 2 1/2"
- (F) HOT-MIX ASPHALT SURFACE REMOVAL VARIABLE DEPTH
- (G) EXISTING SIDEWALK
- (H) EXISTING CONCRETE PAVEMENT
- (I) EXISTING AGGREGATE BASE
- (J) EARTH EXCAVATION

REMOVAL ITEMS

PROPOSED LEGEND

- (1) AGGREGATE SUBGRADE, 12"
- (2) COMBINATION CONCRETE CURB AND GUTTER, TYPE B-6.12
- (3) COMBINATION CONCRETE CURB AND GUTTER, TYPE B-6.24
- (4) COMBINATION CONCRETE CURB AND GUTTER, TYPE M-6.24
- (5) HOT-MIX ASPHALT BINDER COURSE, IL-19.0, N90, 8 3/4"
- (6) HOT-MIX ASPHALT BINDER COURSE, IL-19.0, N70, 6 1/2"
- (7) HOT-MIX ASPHALT BINDER COURSE, IL-19.0, N70, 4 1/4"
- (8) POLYMERIZED HOT-MIX ASPHALT BINDER COURSE, IL-4.75, N50, 3/4"
- (9) POLYMERIZED HOT-MIX ASPHALT SURFACE COURSE, IL-9.5, MIX "E", N70, 1 3/4"
- (10) HOT-MIX ASPHALT SURFACE COURSE, IL-9.5, MIX "D", N70, 1 3/4"
- (11) CONCRETE MEDIAN SURFACE, 4"
- (12) AGGREGATE BASE COURSE, TYPE B, 4"
- (13) PORTLAND CEMENT CONCRETE SIDEWALK, 5"
- (14) AGGREGATE BASE COURSE, TYPE B, 8"
- (15) HOT-MIX ASPHALT SURFACE COURSE, MIX "D", N50, 2"
- (16) BITUMINOUS MATERIALS (PRIME COAT)
- (17) PAVEMENT MARKING LINE (SEE PLANS FOR WIDTH)
- (18) TOPSOIL, 4", SEEDING, FERTILIZER AND EROSION CONTROL BLANKET
- (19) HMA SHOULDERS, 8" W/ SUBBASE GRANULAR MATERIAL TYPE B 4"

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VILLAGE OF SUGAR GROVE
10 S. MUNICIPAL DRIVE
SUGAR GROVE, IL 60554

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CHECKED	-	REVISED	-
DATE	-	REVISED	-

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

BLISS ROAD / WHEELER ROAD AT ILLINOIS ROUTE 47
SUGGESTED CONSTRUCTION STAGING PLAN – STAGE 1

SCALE: N.T.S. | SHEET NO. 3 OF 5 SHEETS | STA. | TO STA.

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
326	13-00026-00-CH	KANE	107	25
		CONTRACT NO. 61E52		
	ILLINOIS FED. AID PROJECT			

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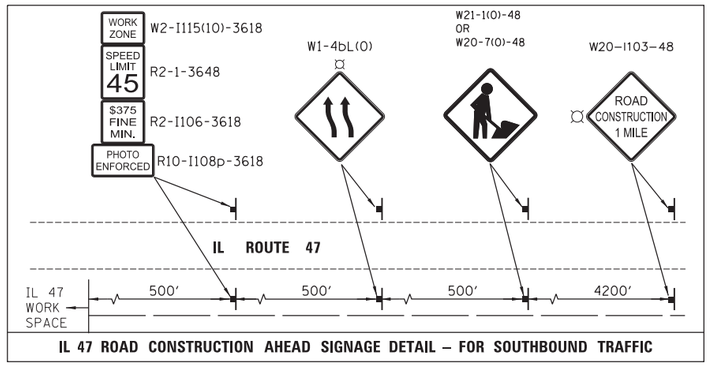

IL 47 ROAD CONSTRUCTION AHEAD SIGNAGE DETAIL – FOR SOUTHBOUND TRAFFIC

SUGGESTED CONSTRUCTION STAGING SEQUENCE

INSTALL TC-22 CHANGEABLE MESSAGE SIGNS (4 TOTAL) ON NORTHBOUND AND SOUTHBOUND IL 47, EASTBOUND WHEELER ROAD AND WESTBOUND BLISS ROAD TWO WEEKS PRIOR TO COMMENCEMENT OF WORK TO NOTIFY THE MOTORING PUBLIC CONCERNING THE UPCOMING ROADWAY CONSTRUCTION.

INSTALL ROAD CONSTRUCTION AHEAD SIGNAGE ON IL 47 AND SIDE STREETS.

WORK ZONE 45 MPH CONSTRUCTION SPEED LIMIT SIGNS SHALL BE POSTED ON IL 47 THROUGHOUT CONSTRUCTION. INFORMATIONAL WARNING SIGNS FOR NARROW TRAVEL LANES (10'-0") SHALL BE INSTALLED IN ADVANCE OF THE PROJECT LIMITS ON IL 47, WHEELER ROAD AND BLISS ROAD.

INSTALL TEMPORARY TRAFFIC SIGNALS AND TEMPORARY INTERCONNECT. REMOVE EXISTING TRAFFIC SIGNALS AT THE INTERSECTION OF IL 47 AND WHEELER ROAD/BLISS ROAD.

ESTABLISH TRAFFIC CONTROL AND PAVEMENT MARKING PER PLAN AND APPLICABLE IDOT STANDARDS.

INSTALL TEMPORARY EROSION CONTROL DEVICES PER PLAN AND APPLICABLE DETAILS.

CONSTRUCT STORM SEWER. ALL TRENCHES SHALL BE BACKFILLED TO MAINTAIN A MAXIMUM 18 INCH DROP-OFF AT END OF EACH WORK DAY.

CONSTRUCT CURB AND GUTTER.

COMMENCE CONSTRUCTION OF PROPOSED TRAFFIC SIGNALS.

CONSTRUCT AGGREGATE SUBGRADE AND HMA BASE COURSE.

CONSTRUCT SIDEWALK AND MULTI-USE PATH.

INSTALL TEMPORARY SEEDING AS REQUIRED.

REMOVE EXISTING SURFACE AT INDICATED AREAS.

CONSTRUCT LEVELING BINDER.

COMPLETE FINAL PAVEMENT SURFACE COURSE, PAVEMENT MARKING AND SIGNING.

COMPLETE CONSTRUCTION OF PROPOSED TRAFFIC SIGNALS AND INTERCONNECT.

COMPLETE LANDSCAPE RESTORATION.

CONSTRUCTION STAGING LEGEND

- TRAFFIC CONTROL DEVICE (DRUM, TY II BARRICADE) WITH STEADY BURN MONODIRECTIONAL LIGHTS ON MULTI LANE SECTIONS AND BIDIRECTIONAL LIGHTS ON TLTW SECTIONS AT 50' C/C (TYP.); 20' C/C ON TAPERS; 10' C/C AT INTERSECTION RETURNS, CENTERS IN RADII/CURVES AND DRIVEWAYS
- WORK ZONE
- DIRECTION OF TRAFFIC MOVEMENT
- TYPE III BARRICADE WITH 2 2-WAY FLASHING LIGHTS WITH ROAD CLOSED SIGN
- TEMPORARY IMFORMATION SIGN/TRAFFIC CONTROL SIGN

SUGGESTED CONSTRUCTION STAGING TRAFFIC CONTOL AND PROTECTION GENERAL NOTES

1. TRAFFIC CONTROL AND PROTECTION SHALL BE IN ACCORDANCE WITH THE STANDARD SPECIFICATIONS, CONTRACT SPECIAL PROVISIONS, CONSTRUCTION STAGING PLANS, THE LATEST EDITION OF THE "MANUAL OF UNIFORM TRAFFIC CONTROL DEVICES FOR STREETS AND HIGHWAYS," AND AS DIRECTED BY THE ENGINEER. TRAFFIC CONTROL SHOWN IN THE CONSTRUCTION STAGING PLAN REPRESENTS A GUIDE FOR THE SAFE MANAGEMENT OF TRAFFIC DURING THE EXECUTION OF THE WORK. MODIFICATIONS MAY BE NECESSARY DUE TO LOCAL CONDITIONS AT THE TIME OF CONSTRUCTION. ANY PROPOSED CHANGES BY THE CONTRACTOR TO THESE TRAFFIC CONTROL PLANS SHALL BE APPROVED BY THE ENGINEER PRIOR TO BEING IMPLEMENTED.
2. ANY EXISTING OR TEMPORARY MARKINGS WHICH CONFLICT WITH MARKINGS REQUIRED FOR CONSTRUCTION STAGING SHALL BE REMOVED ACCORDING TO SECTION 783 OF THE STANDARD SPECIFICATIONS. WATER BLASTING SHALL BE USED TO REMOVE EXISTING PAVEMENT MARKINGS ON IL 47. THE USE OF GRINDERS WILL NOT BE ALLOWED ON THE EXISTING IL 47 SURFACE COURSE. THE USE OF FLAT PAINT TO COVER THE CONTRASTING PAVEMENT TEXTURE ON IL 47 AFTER THE PAVEMENT MARKINGS ARE REMOVED SHOULD NOT BE IMPLEMENTED ON THIS PROJECT.
3. THE REMOVAL OF THE EXISTING RAISED REFLECTIVE PAVEMENT MARKERS ON IL 47 SHALL CONSIST OF REMOVING ONLY THE REFLECTORS ACCORDING TO SECTION 783 OF THE STANDARD SPECIFICATIONS.
4. THERE WILL BE AT LEAST ONE LANE OF TRAFFIC OPEN ON IL 47 IN BOTH DIRECTIONS AT ALL TIMES. THE OUTSIDE LANES OF IL 47 MAY BE CLOSED TO PROVIDE A SAFETY WORK ZONE FOR CONSTRUCTION OPERATIONS ON WEEKDAYS FROM 8:30AM TO 4:30PM. IL 47 WILL OPERATE WITH TWO LANES OPEN IN EACH DIRECTION DURING ALL OTHER TIMES AS SPECIFIED IN THE SPECIAL PROVISION "KEEPING ARTERIALS OPEN TO TRAFFIC". THE DROPOFF CANNOT BE MORE THAN 12" WHEN BOTH LANES ARE OPEN TO TRAFFIC AND THE DROP OFF IS WITHIN 8' OF THE TRAVELED WAY.
5. ACCESS TO ADJACENT PROPERTIES AND SIDE STREETS SHALL BE MAINTAINED AT ALL TIMES, EXCEPT AS NOTED HEREIN OR AS APPROVED BY THE ENGINEER.
6. PERMANENT TRAFFIC SIGNAL WORK MAY PROCEED AT ANY TIME DURING CONSTRUCTION AFTER THE TEMPORARY SIGNALS ARE INSTALLED AS LONG AS THAT WORK DOES NOT INTERFERE WITH SUBSEQUENT WORK REQUIRED IN THAT AREA.
7. TEMPORARY PAVEMENT MARKING APPLIED TO FINAL PAVEMENT SURFACES AND EXISTING PAVEMENT SURFACES TO REMAIN SHALL BE PAVEMENT MARKING TAPE, TYPE III. ONLY PAVEMENT MARKING TAPE, TYPE III SHALL BE USED ON IL 47.
8. PLATING AND/OR TEMPORARY STRUCTURE ADJUSTMENTS MAY BE REQUIRED DUE TO THE STAGING OF CONSTRUCTION.

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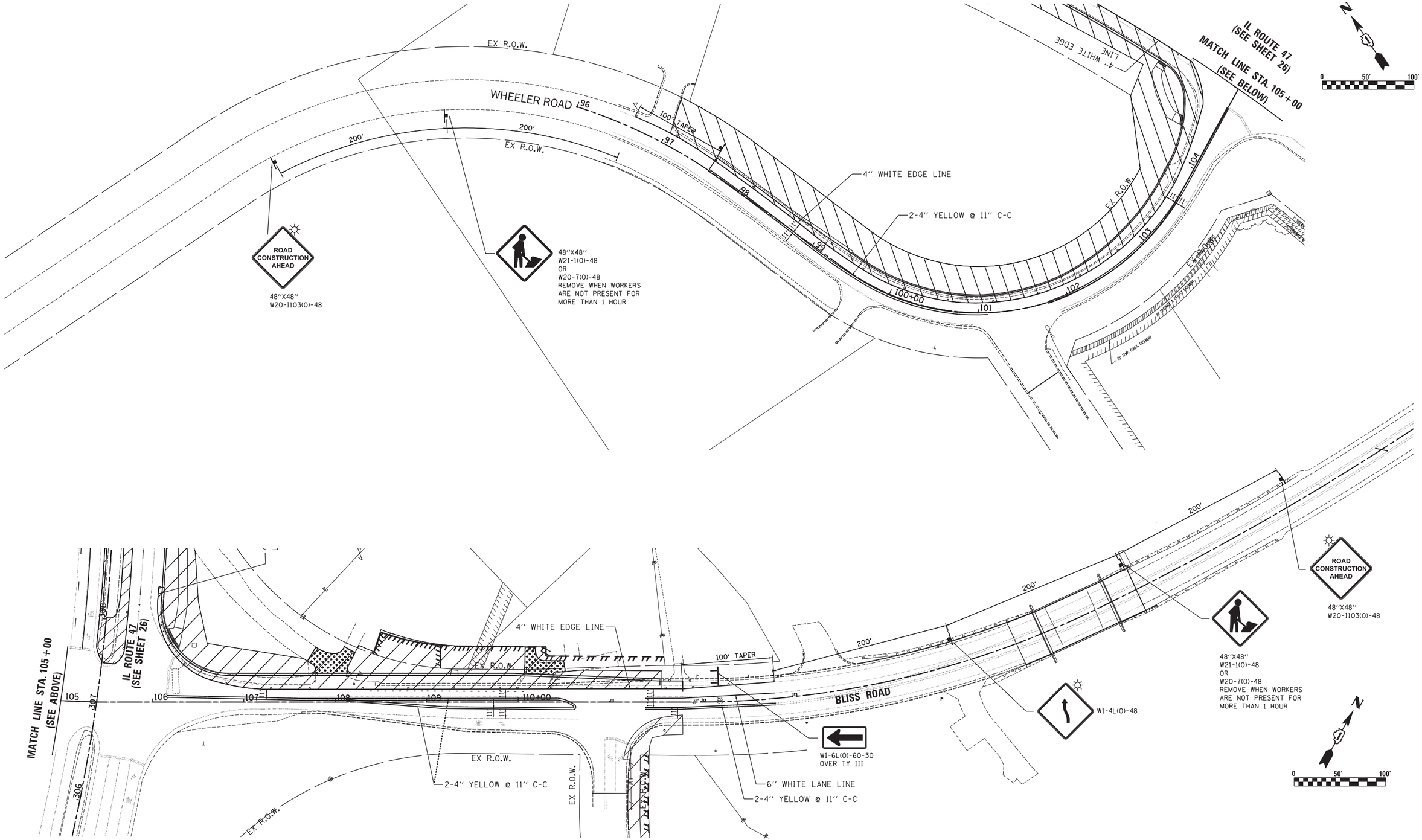
CHECKED - TVW	REVISED -	
DATE - 08/11/2017	REVISED -	

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

BLISS ROAD / WHEELER ROAD AT ILLINOIS ROUTE 47
SUGGESTED CONSTRUCTION STAGING PLAN – STAGE 1

SCALE: 1"=50' | SHEET NO. 4 OF 5 SHEETS | STA. 300+00 TO STA. 312+00

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
326	13-00026-00-CH	KANE	107	26
		CONTRACT NO. 61E52		
		ILLINOIS FED. AID PROJECT		



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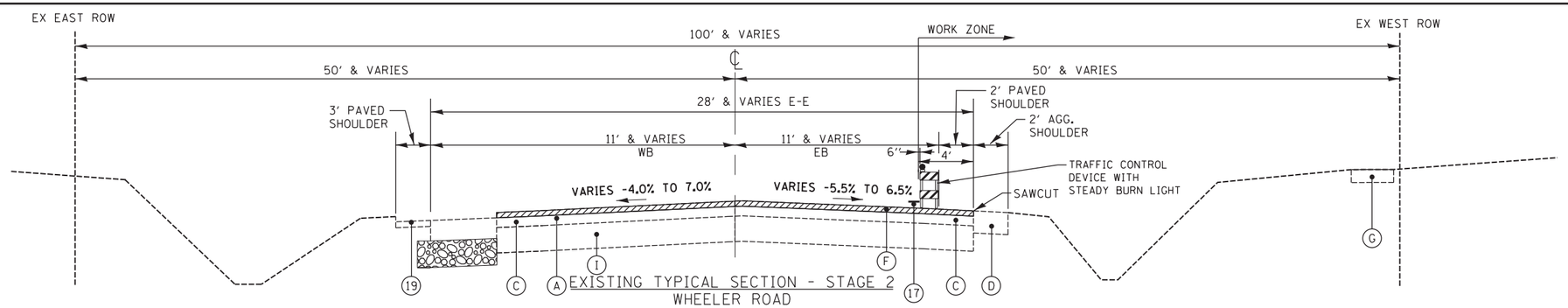
STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

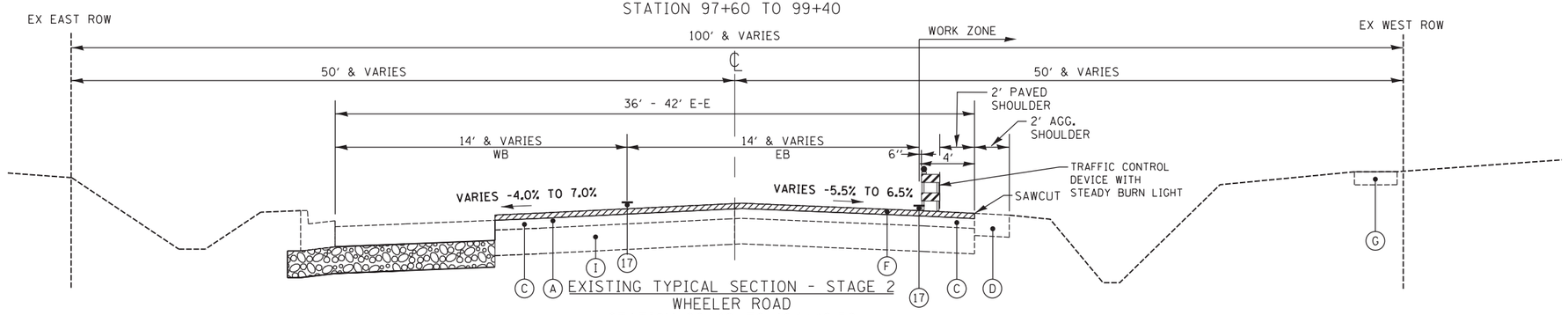
BLISS ROAD / WHEELER ROAD AT ILLINOIS ROUTE 47
SUGGESTED CONSTRUCTION STAGING PLAN – STAGE 1

SCALE: 1"=50' | SHEET NO. 5 OF 5 SHEETS | STA. 96+00 TO STA. 115+00

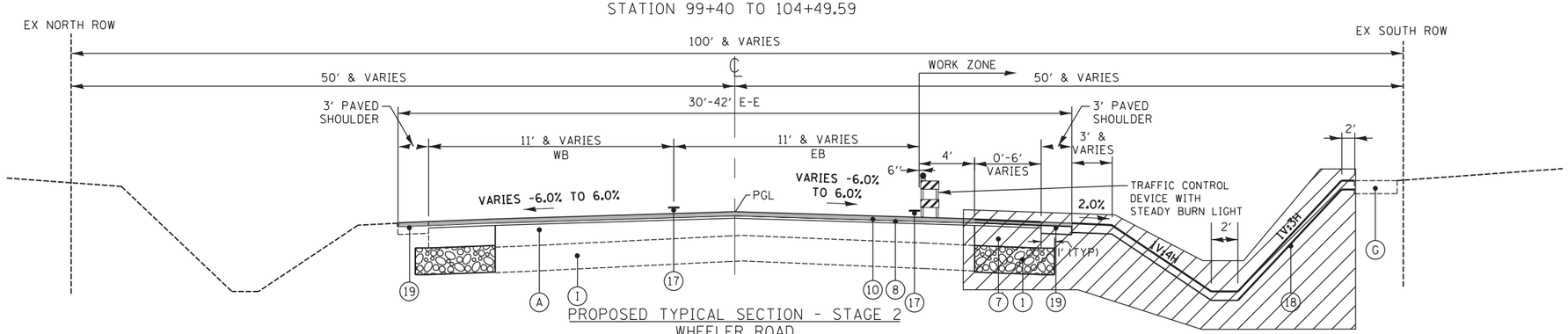
F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
326	13-00026-00-CH	KANE	107	27
		CONTRACT NO. 61E52		
	ILLINOIS FED. AID PROJECT			



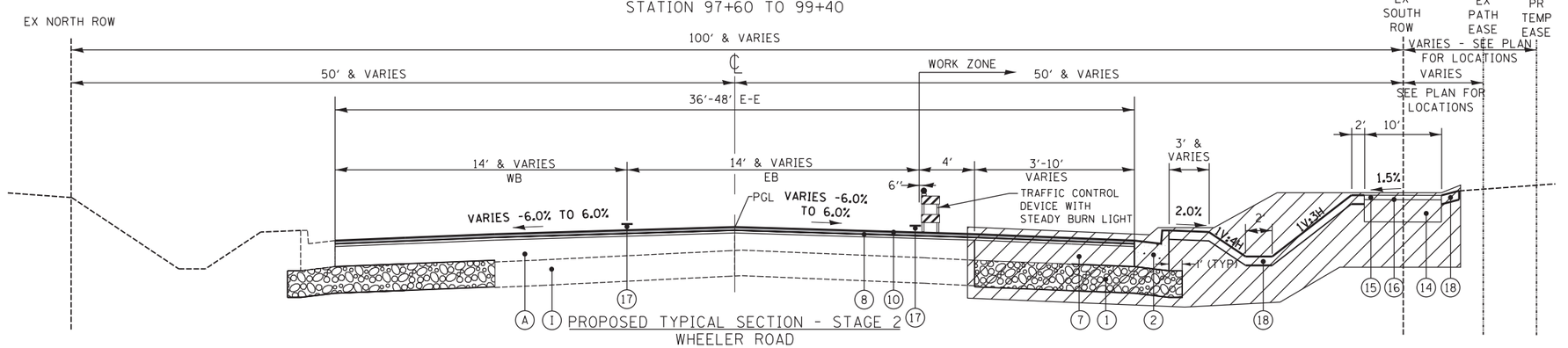
EXISTING TYPICAL SECTION - STAGE 2
WHEELER ROAD
STATION 97+60 TO 99+40



EXISTING TYPICAL SECTION - STAGE 2
WHEELER ROAD
STATION 99+40 TO 104+49.59



PROPOSED TYPICAL SECTION - STAGE 2
WHEELER ROAD
STATION 97+60 TO 99+40



PROPOSED TYPICAL SECTION - STAGE 2
WHEELER ROAD
STATION 99+40 TO 104+49.59

EXISTING LEGEND

- (A) EXISTING ASPHALT PAVEMENT
- (B) EXISTING POZZOLANIC COURSE
- (C) EXISTING PAVED SHOULDER
- (D) EXISTING AGGREGATE SHOULDER
- (E) HOT-MIX ASPHALT SURFACE REMOVAL, 2 1/2"
- (F) HOT-MIX ASPHALT SURFACE REMOVAL VARIABLE DEPTH
- (G) EXISTING SIDEWALK
- (H) EXISTING CONCRETE PAVEMENT
- (I) EXISTING AGGREGATE BASE
- (J) EARTH EXCAVATION

REMOVAL ITEMS

PROPOSED LEGEND

- (1) AGGREGATE SUBGRADE, 12"
- (2) COMBINATION CONCRETE CURB AND GUTTER, TYPE B-6.12
- (3) COMBINATION CONCRETE CURB AND GUTTER, TYPE B-6.24
- (4) COMBINATION CONCRETE CURB AND GUTTER, TYPE M-6.24
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- (6) HOT-MIX ASPHALT BINDER COURSE, IL-19.0, N70, 6 1/2"
- (7) HOT-MIX ASPHALT BINDER COURSE, IL-19.0, N70, 4 1/4"
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DATE - 08/11/2017	REVISED -	

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

BLISS ROAD / WHEELER ROAD AT ILLINOIS ROUTE 47
SUGGESTED CONSTRUCTION STAGING PLAN – STAGE 2

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

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
326	13-00026-00-CH	KANE	107	28
		CONTRACT NO. 61E52		
	ILLINOIS FED. AID PROJECT			

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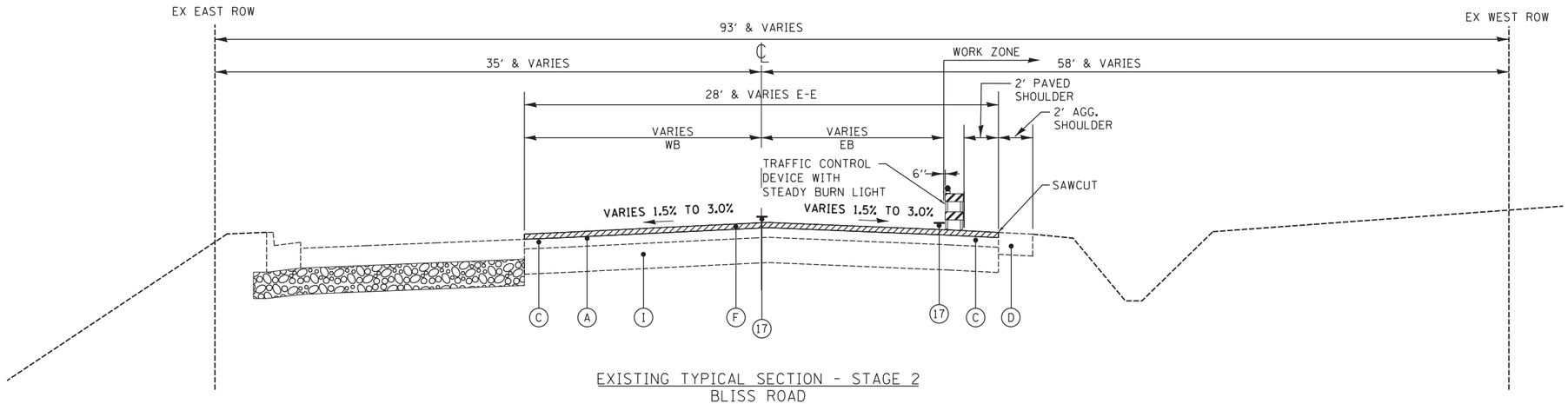
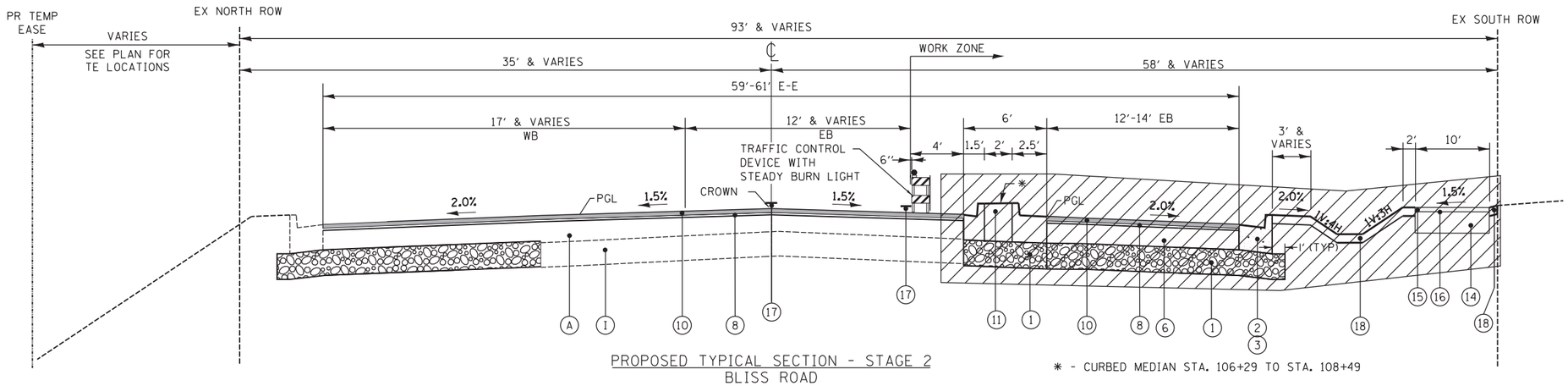
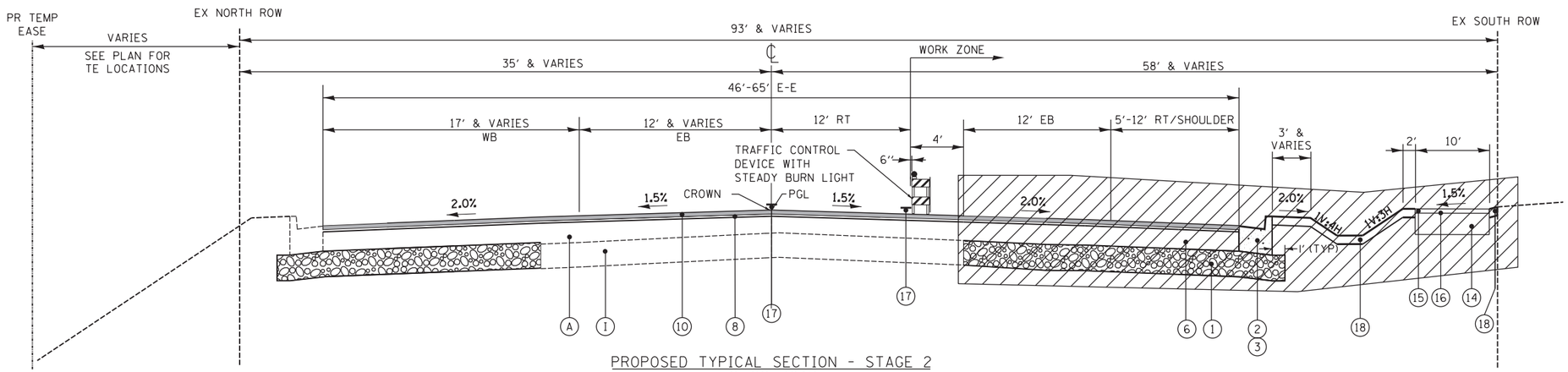


EXISTING TYPICAL SECTION - STAGE 2
BLISS ROAD
STATION 106+30.45 TO 111+80



PROPOSED TYPICAL SECTION - STAGE 2
BLISS ROAD
STATION 106+30.45 TO 108+49

* - CURBED MEDIAN STA. 106+29 TO STA. 108+49



PROPOSED TYPICAL SECTION - STAGE 2
BLISS ROAD
STATION 108+49 TO 111+80

EXISTING LEGEND

- (A) EXISTING ASPHALT PAVEMENT
- (B) EXISTING POZZOLANIC COURSE
- (C) EXISTING PAVED SHOULDER
- (D) EXISTING AGGREGATE SHOULDER
- (E) HOT-MIX ASPHALT SURFACE REMOVAL, 2 1/2"
- (F) HOT-MIX ASPHALT SURFACE REMOVAL VARIABLE DEPTH
- (G) EXISTING SIDEWALK
- (H) EXISTING CONCRETE PAVEMENT
- (I) EXISTING AGGREGATE BASE
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REMOVAL ITEMS

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STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

BLISS ROAD / WHEELER ROAD AT ILLINOIS ROUTE 47
SUGGESTED CONSTRUCTION STAGING PLAN – STAGE 2

SCALE: N.T.S. | SHEET NO. 2 OF 4 SHEETS | STA. | TO STA.

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
326	13-00026-00-CH	KANE	107	29
		CONTRACT NO. 61E52		
	ILLINOIS FED. AID PROJECT			

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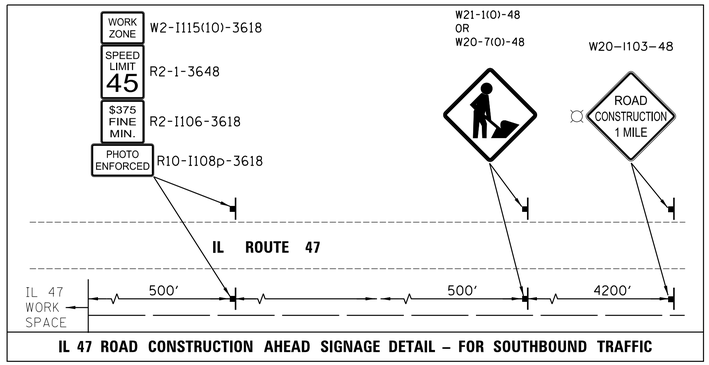

IL 47 ROAD CONSTRUCTION AHEAD SIGNAGE DETAIL – FOR SOUTHBOUND TRAFFIC

SUGGESTED CONSTRUCTION STAGING SEQUENCE

INSTALL TC-22 CHANGEABLE MESSAGE SIGNS (4 TOTAL) ON NORTHBOUND AND SOUTHBOUND IL 47, EASTBOUND WHEELER ROAD AND WESTBOUND BLISS ROAD TWO WEEKS PRIOR TO COMMENCEMENT OF WORK TO NOTIFY THE MOTORING PUBLIC CONCERNING THE UPCOMING ROADWAY CONSTRUCTION.

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REMOVE EXISTING SURFACE AT INDICATED AREAS.

CONSTRUCT LEVELING BINDER.

COMPLETE FINAL PAVEMENT SURFACE COURSE, PAVEMENT MARKING AND SIGNING.

COMPLETE CONSTRUCTION OF PROPOSED TRAFFIC SIGNALS AND INTERCONNECT.

COMPLETE LANDSCAPE RESTORATION.

CONSTRUCTION STAGING LEGEND

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- WORK ZONE
- DIRECTION OF TRAFFIC MOVEMENT
- TYPE III BARRICADE WITH 2 2-WAY FLASHING LIGHTS WITH ROAD CLOSED SIGN
- TEMPORARY IMFORMATION SIGN/TRAFFIC CONTROL SIGN

SUGGESTED CONSTRUCTION STAGING TRAFFIC CONTOL AND PROTECTION GENERAL NOTES

1. TRAFFIC CONTROL AND PROTECTION SHALL BE IN ACCORDANCE WITH THE STANDARD SPECIFICATIONS, CONTRACT SPECIAL PROVISIONS, CONSTRUCTION STAGING PLANS, THE LATEST EDITION OF THE "MANUAL OF UNIFORM TRAFFIC CONTROL DEVICES FOR STREETS AND HIGHWAYS," AND AS DIRECTED BY THE ENGINEER. TRAFFIC CONTROL SHOWN IN THE CONSTRUCTION STAGING PLAN REPRESENTS A GUIDE FOR THE SAFE MANAGEMENT OF TRAFFIC DURING THE EXECUTION OF THE WORK. MODIFICATIONS MAY BE NECESSARY DUE TO LOCAL CONDITIONS AT THE TIME OF CONSTRUCTION. ANY PROPOSED CHANGES BY THE CONTRACTOR TO THESE TRAFFIC CONTROL PLANS SHALL BE APPROVED BY THE ENGINEER PRIOR TO BEING IMPLEMENTED.
2. ANY EXISTING OR TEMPORARY MARKINGS WHICH CONFLICT WITH MARKINGS REQUIRED FOR CONSTRUCTION STAGING SHALL BE REMOVED ACCORDING TO SECTION 783 OF THE STANDARD SPECIFICATIONS. WATER BLASTING SHALL BE USED TO REMOVE EXISTING PAVEMENT MARKINGS ON IL 47. THE USE OF GRINDERS WILL NOT BE ALLOWED ON THE EXISTING IL 47 SURFACE COURSE. THE USE OF FLAT PAINT TO COVER THE CONTRASTING PAVEMENT TEXTURE ON IL 47 AFTER THE PAVEMENT MARKINGS ARE REMOVED SHOULD NOT BE IMPLEMENTED ON THIS PROJECT.
3. THE REMOVAL OF THE EXISTING RAISED REFLECTIVE PAVEMENT MARKERS ON IL 47 SHALL CONSIST OF REMOVING ONLY THE REFLECTORS ACCORDING TO SECTION 783 OF THE STANDARD SPECIFICATIONS.
4. THERE WILL BE AT LEAST ONE LANE OF TRAFFIC OPEN ON IL 47 IN BOTH DIRECTIONS AT ALL TIMES. THE OUTSIDE LANES OF IL 47 MAY BE CLOSED TO PROVIDE A SAFETY WORK ZONE FOR CONSTRUCTION OPERATIONS ON WEEKDAYS FROM 8:30AM TO 4:30PM. IL 47 WILL OPERATE WITH TWO LANES OPEN IN EACH DIRECTION DURING ALL OTHER TIMES AS SPECIFIED IN THE SPECIAL PROVISION "KEEPING ARTERIALS OPEN TO TRAFFIC". THE DROPOFF CANNOT BE MORE THAN 12" WHEN BOTH LANES ARE OPEN TO TRAFFIC AND THE DROP OFF IS WITHIN 8' OF THE TRAVELED WAY.
5. ACCESS TO ADJACENT PROPERTIES AND SIDE STREETS SHALL BE MAINTAINED AT ALL TIMES, EXCEPT AS NOTED HEREIN OR AS APPROVED BY THE ENGINEER.
6. PERMANENT TRAFFIC SIGNAL WORK MAY PROCEED AT ANY TIME DURING CONSTRUCTION AFTER THE TEMPORARY SIGNALS ARE INSTALLED AS LONG AS THAT WORK DOES NOT INTERFERE WITH SUBSEQUENT WORK REQUIRED IN THAT AREA.
7. TEMPORARY PAVEMENT MARKING APPLIED TO FINAL PAVEMENT SURFACES AND EXISTING PAVEMENT SURFACES TO REMAIN SHALL BE PAVEMENT MARKING TAPE, TYPE III. ONLY PAVEMENT MARKING TAPE, TYPE III SHALL BE USED ON IL 47.
8. PLATING AND/OR TEMPORARY STRUCTURE ADJUSTMENTS MAY BE REQUIRED DUE TO THE STAGING OF CONSTRUCTION.

Engineering Enterprises, Inc.
CONSULTING ENGINEERS
52 Wheeler Road
Sugar Grove, Illinois 60554
630.466.6700 / www.eeiweb.com

VILLAGE OF SUGAR GROVE
10 S. MUNICIPAL DRIVE
SUGAR GROVE, IL 60554

DESIGNED - CMF	REVISED -	
DRAWN - JPS	REVISED -	
CHECKED - TVW	REVISED -	
DATE - 08/11/2017	REVISED -	

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

BLISS ROAD / WHEELER ROAD AT ILLINOIS ROUTE 47
SUGGESTED CONSTRUCTION STAGING PLAN – STAGE 2

SCALE: 1"=50' | SHEET NO. 3 OF 4 SHEETS | STA. 300+00 TO STA. 312+00

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
326	13-00026-00-CH	KANE	107	30
		CONTRACT NO. 61E52		
		ILLINOIS FED. AID PROJECT		

EX R.O.W.

WHEELER ROAD

96

97

200'

200'

200'

100' TAPER

W1-4L(O)-48
STA 96+65
24' RT

48"X48"
W21-1a(O)-48
REMOVE WHEN
NOT APPLICABLE

ROAD
CONSTRUCTION
AHEAD

48"X48"
W20-1103(O)-48

98

99

2-4" YELLOW @ 11" C-C

4" WHITE EDGE LINE

100+00

101

102

103

104

EX R.O.W.

IL ROUTE 47
(SEE SHEET 30)
MATCHLINE STA. 105+00
(SEE BELOW)

N

0 50' 100'

MATCHLINE STA. 105+00
(SEE ABOVE)

IL ROUTE 47
(SEE SHEET 30)

105

106

107

108

109

110+00

111

6" WHITE
LANE LINE

8' WHITE LETTERS
& SYMBOLS (TYP)

2-4" YELLOW
@ 11" C-C

ONLY

R3-5R-3036

EX R.O.W.

24'

12

12

12

12

4" WHITE EDGE LINE

6" WHITE
LANE LINE

8' WHITE LETTERS
& SYMBOLS (TYP)

6" WHITE SKIP DASH
(2' DASH, 6' SKIP)

EX R.O.W.

EX R.O.W.

EX R.O.W.

2-4" YELLOW @ 11" C-C

6" WHITE
LANE LINE

8' WHITE LETTERS
& SYMBOLS (TYP)

200'

200'

200'

ROAD
CONSTRUCTION
AHEAD

48"X48"
W20-1103(O)-48

BLISS ROAD

100' TAPER

W1-4R(O)-48

48"X48"
W21-1(O)-48
OR
W20-7(O)-48
REMOVE WHEN WORKERS
ARE NOT PRESENT FOR
MORE THAN 1 HOUR

W1-4R(O)-48

4" WHITE EDGE LINE

N

0 50' 100'

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STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

BLISS ROAD / WHEELER ROAD AT ILLINOIS ROUTE 47
SUGGESTED CONSTRUCTION STAGING PLAN – STAGE 2

SCALE: 1"=50' | SHEET NO. 4 OF 4 SHEETS | STA. 96+00 TO STA. 115+00

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
326	13-00026-00-CH	KANE	107	31
		CONTRACT NO. 61E52		
	ILLINOIS FED. AID PROJECT			

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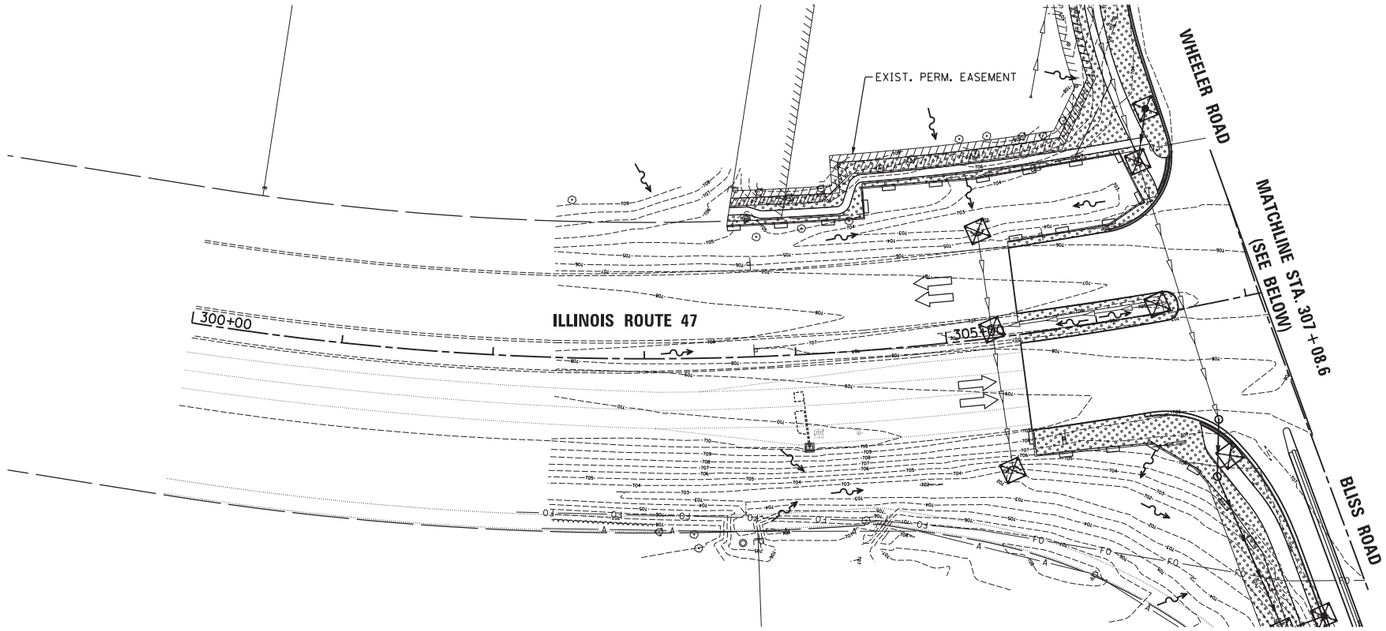

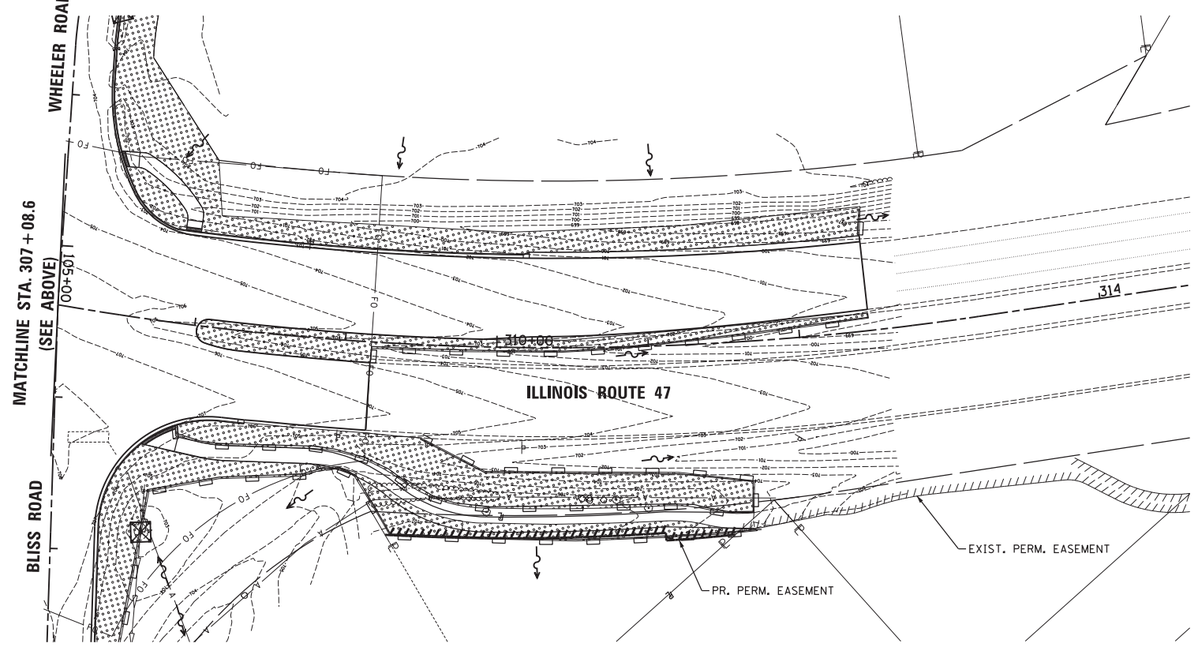

0 50' 100'

LEGEND

- TOPSOIL, 4" SEEDING - CLASS 2A, FERTILIZER, & EROSION CONTROL BLANKET
- SUGAR MAPLE
- PERIMETER EROSION BARRIER
- TEMPORARY DITCH CHECK
- INLET FILTER
- FLOW DIRECTION

NOTE:

1. TEMPORARY DITCH CHECKS SHALL BE ROLLED EXCELSIOR.
2. INLET FILTERS SHALL BE USED AT STORM STRUCTURES FOR INLET AND PIPE PROTECTION.

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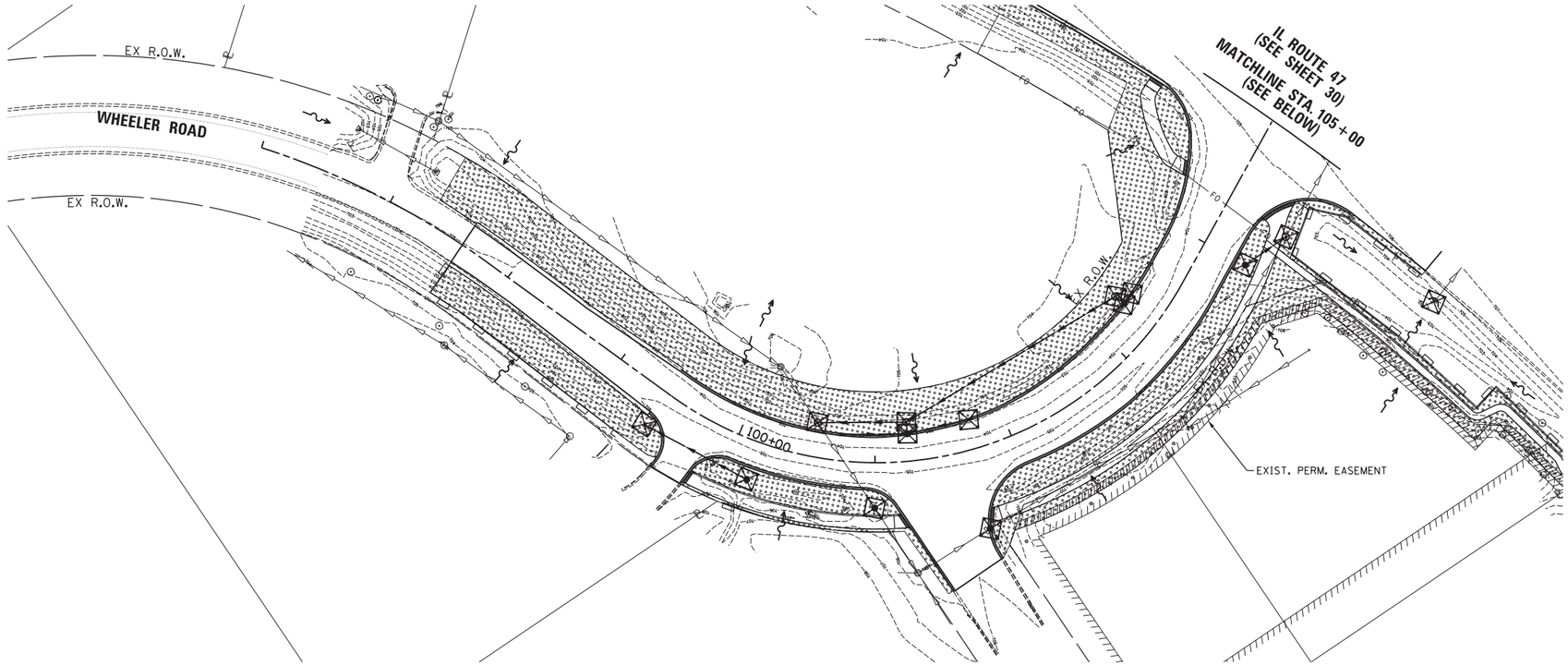
DRAWN - JPS	REVISED -	
CHECKED - TVW	REVISED -	
DATE - 08/11/2017	REVISED -	

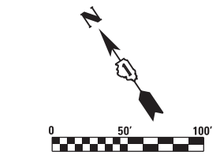
STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

BLISS ROAD / WHEELER ROAD AT ILLINOIS ROUTE 47
EROSION CONTROL AND LANDSCAPING PLAN

SCALE: 1"=50' | SHEET NO. 1 OF 3 SHEETS | STA. 300+00 TO STA. 312+00

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
326	13-00026-00-CH	KANE	107	32
		CONTRACT NO. 61E52		
	ILLINOIS FED. AID PROJECT			



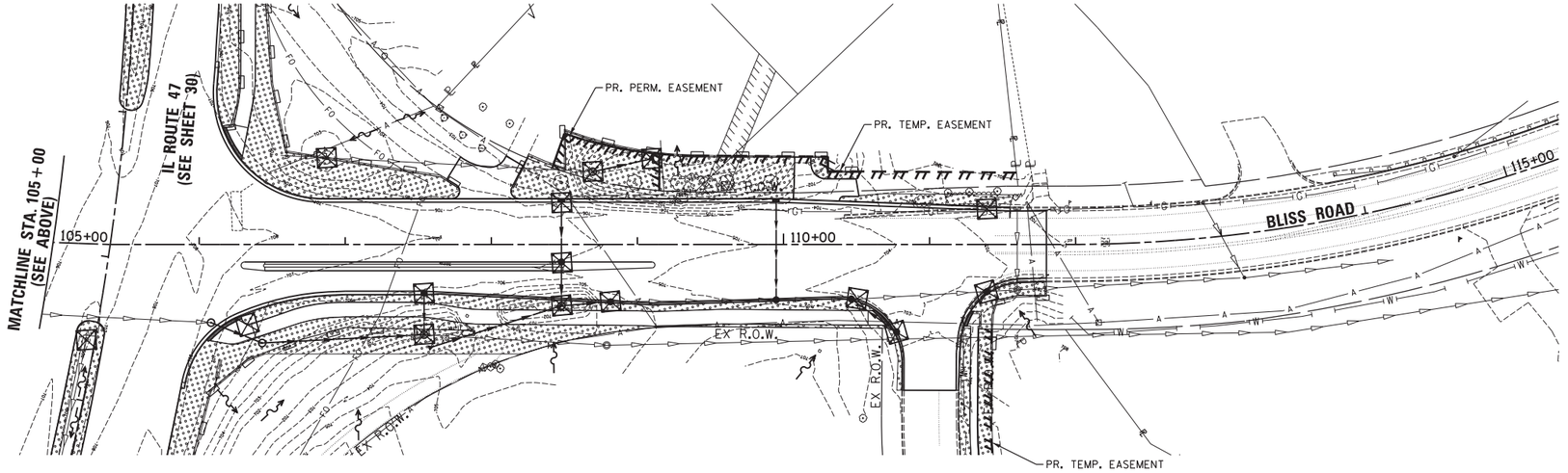


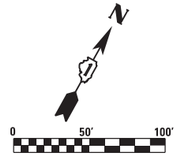
LEGEND

- TOPSOIL, 4" SEEDING - CLASS 2A, FERTILIZER, & EROSION CONTROL BLANKET
- SUGAR MAPLE
- PERIMETER EROSION BARRIER
- TEMPORARY DITCH CHECK
- INLET FILTER
- FLOW DIRECTION

NOTE:

1. TEMPORARY DITCH CHECKS SHALL BE ROLLED EXCELSIOR.
2. INLET FILTERS SHALL BE USED AT STORM STRUCTURES FOR INLET AND PIPE PROTECTION.





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STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

BLISS ROAD / WHEELER ROAD AT ILLINOIS ROUTE 47
EROSION CONTROL AND LANDSCAPING PLAN

SCALE: 1"=50' | SHEET NO. 2 OF 3 SHEETS | STA. 96+00 TO STA. 115+00

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
326	13-00026-00-CH	KANE	107	33
		CONTRACT NO. 61E52		
	ILLINOIS FED. AID PROJECT			

Plotted: 5/30/2018 11:58:00 AM By: jschmidt FILE NAME: H:\SDSKPro\SG1108-Micro\Dgn Final Eng\SG1108 PLAN SHEETS 505C.dgn

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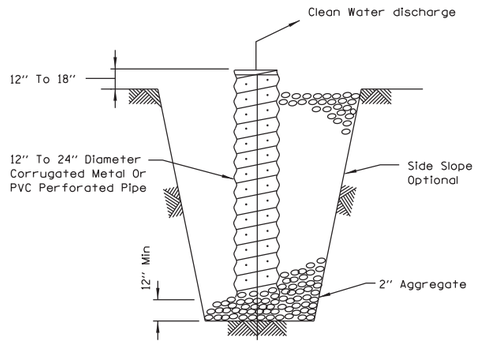
SUMP PIT PLAN

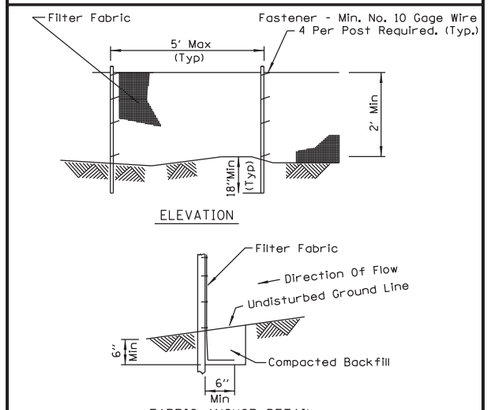


SECTION

NOTES:
1. Pit dimensions are optional.
2. The standpipe will be constructed by perforating a 12"-24" diameter corrugated metal or PVC pipe.
3. A base of 2" aggregate will be placed in the pit to a minimum depth of 12". After installing the standpipe, the pit surrounding the standpipe will then be backfilled with 2" aggregate.
4. The standpipe will extend 12" to 18" above the lip of the pit.
5. If discharge will be pumped directly to a storm drainage system, the standpipe will be wrapped with filter fabric before installation.
6. If desired, 1/4"-1/2" hardware cloth may be placed around the standpipe prior to attaching the filter fabric. This will increase the rate of water seepage into the pipe.

REFERENCE		STANDARD DWG. NO.
Project		IL-650
Designed ____ Date ____	NRCS Natural Resources Conservation Service	SHEET 1 OF 1
Checked ____ Date ____		DATE 8-11-94
Approved ____ Date ____		

SILT FENCE PLAN



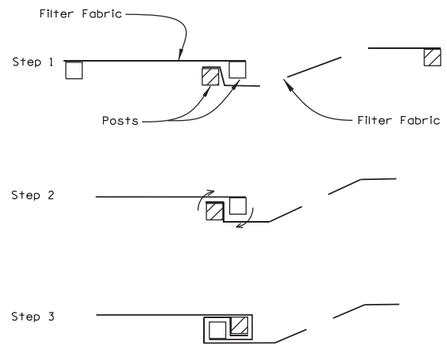
ELEVATION

FABRIC ANCHOR DETAIL

NOTES:
1. Temporary sediment fence shall be installed prior to any grading work in the area to be protected. They shall be maintained throughout the construction period and removed in conjunction with the final grading and site stabilization.
2. Filter fabric shall meet the requirements of material specification 592 Geotextile Table 1 or 2, Class with equivalent opening size of at least 30 for nonwoven and 50 for woven.
3. Fence posts shall be either standard steel post or wood post with a minimum cross-sectional area of 3.0 sq. in.

REFERENCE		STANDARD DWG. NO.
Project		IL-620
Designed ____ Date ____	NRCS Natural Resources Conservation Service	SHEET 1 OF 2
Checked ____ Date ____		DATE 11-20-01
Approved ____ Date ____		

SILT FENCE



ATTACHING TWO SILT FENCES

NOTES:
1. Place the end post of the second fence inside the end post of the first fence.
2. Rotate both posts at least 180 degrees in a clockwise direction to create a tight seal with the fabric material.
3. Drive both posts a minimum of 18 inches into the ground and bury the flap.

REFERENCE		STANDARD DWG. NO.
Project		IL-620(W)
Designed ____ Date ____	NRCS Natural Resources Conservation Service	SHEET 2 OF 2
Checked ____ Date ____		DATE 1-29-99
Approved ____ Date ____		

KANE-DUPAGE SOIL AND WATER CONSERVATION NOTES

UNLESS OTHERWISE INDICATED, ALL VEGETATIVE AND STRUCTURAL EROSION AND SEDIMENT CONTROL PRACTICES WILL BE CONSTRUCTED ACCORDING TO MINIMUM STANDARDS AND SPECIFICATIONS IN THE ILLINOIS URBAN MANUAL, LATEST EDITION.

THE KANE-DUPAGE SOIL AND WATER CONSERVATION DISTRICT (KDSWCD) (630-584-7961) MUST BE NOTIFIED ONE WEEK PRIOR TO THE PRE-CONSTRUCTION CONFERENCE, ONE WEEK PRIOR TO THE COMMENCEMENT OF LAND DISTURBING ACTIVITIES, AND ONE WEEK PRIOR TO THE FINAL INSPECTION.

A COPY OF THE APPROVED EROSION AND SEDIMENT CONTROL PLAN SHALL BE MAINTAINED ON THE SITE AT ALL TIMES.

PRIOR TO COMMENCING LAND-DISTURBING ACTIVITIES IN AREAS OTHER THAN INDICATED ON THESE PLANS (INCLUDING BUT NOT LIMITED TO, ADDITIONAL PHASES OF DEVELOPMENT AND OFF-SITE BORROW OR WASTE AREAS) A SUPPLEMENTARY EROSION CONTROL PLAN SHALL BE SUBMITTED TO THE OWNER FOR REVIEW BY THE KDSWCD.

THE CONTRACTOR IS RESPONSIBLE FOR INSTALLATION OF ANY ADDITIONAL EROSION CONTROL MEASURES NECESSARY TO PREVENT EROSION AND SEDIMENTATION AS DETERMINED BY THE KDSWCD.

WHEN WATER IS ENCOUNTERED IN A TRENCH OR ANY EXCAVATION, IT SHALL BE REMOVED DURING CONSTRUCTION OPERATIONS. DURING DEWATERING OPERATIONS, WATER SHALL BE PUMPED INTO AN ABOVE GROUND DEWATERING/PUMPING BASIN, DEWATERING DIRECTLY INTO FIELD TILES, STORMWATER STRUCTURES, SANITARY SEWERS IS PROHIBITED.

IT IS THE RESPONSIBILITY OF THE LANDOWNER AND/OR GENERAL CONTRACTOR TO INFORM ANY SUB-CONTRACTOR(S) WHO MAY PERFORM WORK ON THIS PROJECT, OF THE REQUIREMENTS IN IMPLEMENTING AND MAINTAINING THESE EROSION CONTROL PLANS AND THE NATIONAL POLLUTANT DISCHARGE ELIMINATION SYSTEM (NPDES) PERMIT REQUIREMENTS SET FORTH BY THE ILLINOIS EPA.

SEDIMENT CONTROL MEASURES WILL BE SELECTED BY CONTRACTOR, METHODS APPROVED BY ENGINEER AND THE KDSWCD.

EROSION CONTROL MEASURES SHALL BE INSTALLED PRIOR TO START OF CONSTRUCTION.

ALL EROSION CONTROL MEASURES MUST BE INSPECTED WEEKLY AND AFTER EACH ½" RAIN EVENT. ADDITIONAL SEDIMENT CONTROL WILL BE ADDED IF RIVER FLOW APPEARS TURBID.

SODDING OR SEEDING AND EROSION CONTROL BLANKET SHALL BE INSTALLED ON ALL SLOPES AND IN CRITICAL AREAS IMMEDIATELY UPON FINAL GRADING.

IN AREAS WHERE WORK IS COMPLETE, PERMANENT STABILIZATION SHALL OCCUR WITHIN 7 DAYS OF COMPLETION, AND IN AREAS WHERE WORK HAS TEMPORARILY CEASED FOR 14 DAYS OR MORE, TEMPORARY STABILIZATION SHALL OCCUR BY THE 7TH DAY AFTER WORK HAS CEASED.

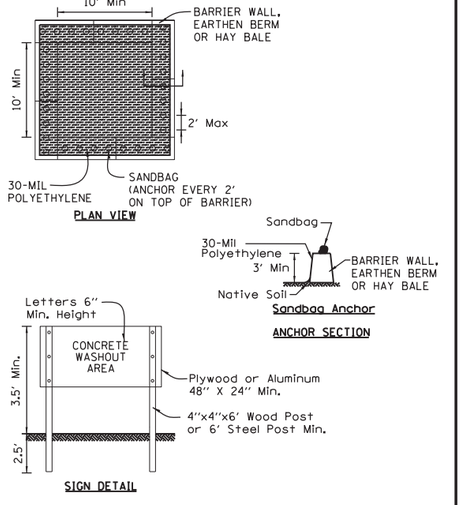
WINTER SHUTDOWN SHALL BE ADDRESSED EARLY IN THE FALL GROWING SEASON SO THAT SLOPES AND OTHER BARE EARTH AREAS MAY BE STABILIZED WITH TEMPORARY AND/OR PERMANENT VEGETATIVE COVER FOR PROPER EROSION AND SEDIMENT CONTROL.

ALL ADJACENT STREETS MUST BE KEPT CLEAR OF DEBRIS. INSPECTED DAILY AND CLEANED WHEN NECESSARY.

WHERE THERE IS LOW, INTERMITTENT AMOUNTS OF DEWATERING, PUMPS WITH FILTRATION BAGS SHALL BE USED. FILTRATION BAGS SHALL BE ATTACHED TO PUMP DISCHARGES AND SURROUNDED WITH A SECONDARY CONTAINMENT OR ON A STABILIZED AREA. FILTER BAGS SHALL NOT BE PLACED, WHOLE OR PARTIALLY, WITHIN AQUATIC AREAS (WETLANDS, STREAMS, ETC.) THE MATERIAL FOR THE FILTRATION BAG SHALL MEET THE REQUIREMENTS OF MATERIAL SPECIFICATION 592 GEOTEXTILE OF THE ILLINOIS URBAN MANUAL, TABLE 2, CLASS I WITH A MINIMUM TENSILE STRENGTH OF 200 LBS. THE FILTRATION BAG SHALL BE SIZED PER MANUFACTURER RECOMMENDATIONS AND BASED ON THE SIZE OF THE PUMP.

STOCKPILES OF SOIL AND OTHER BUILDING MATERIALS TO REMAIN IN PLACE MORE THAN THREE (3) DAYS SHALL BE FURNISHED WITH EROSION AND SEDIMENT CONTROL MEASURES (I.E. PERIMETER SILT FENCE). STOCKPILES, NOT BEING ACTIVITY WORKED AND TO REMAIN IN PLACE FOR 14 DAYS OR MORE SHALL RECEIVE TEMPORARY SEEDING.

TEMPORARY CONCRETE WASHOUT FACILITIES SHALL BE USED AS REQUIRED AND DIRECTED BY THE ENGINEER.



PLAN VIEW

Sandbag Anchor

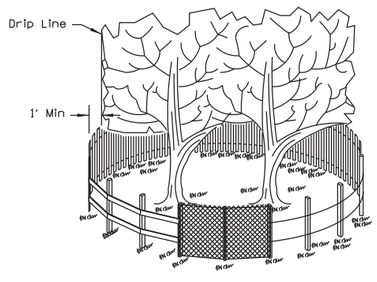
ANCHOR SECTION

SIGN DETAIL

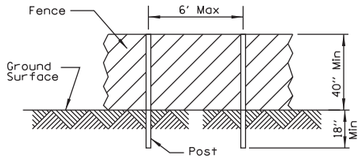
NOTES:
1. Maintaining temporary concrete washout facilities shall include removing and disposing of hardend concrete and/or slurry and returning the facilities to a functional condition.
2. Facility shall be cleaned or reconstructed in a new area once washout becomes two-thirds full.

TEMPORARY CONCRETE WASHOUT FACILITY

TREE PROTECTION - FENCING

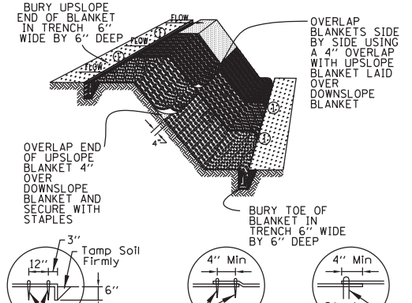


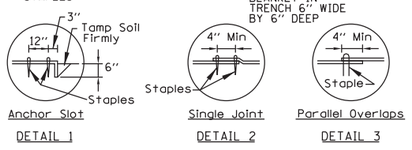
SIDE VIEW



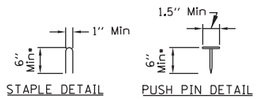
POST AND FENCE DETAIL

NOTES:
1. The fence shall be located a minimum of 1 foot outside the drip line of the tree to be saved and in no case closer than 5 feet to the trunk of any tree.
2. Fence posts shall be either standard steel posts or wood posts with a minumum cross sectional area of 3.0 sq. in.
3. The fence may be either 40" high snow fence, 40" plastic web fencing or any other material as approved by the engineer/inspector.



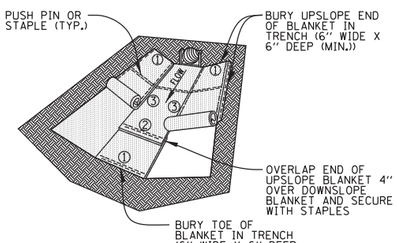


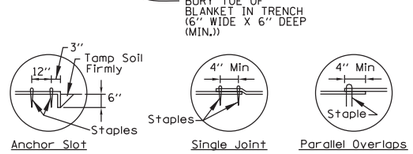
DETAIL 1 DETAIL 2 DETAIL 3



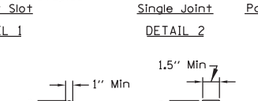
NOTES:
1. Staples shall be placed in a diamond pattern at 2 per s.y. for stiched blankets. Non-stiched shall use 4 staples per s.y. of material. This equates to 200 staples with stiched blanket and 400 stapels with non-stiched blanket per 100 s.y. of material.
2. Staple or push pin lengths shall be selected based on soil type and conditions. (minimum staple length is 6")
3. Erosion control material shall be placed in contact with the soil over a prepared seedbed.
4. All anchor slots shall be stapled at approximately 12" intervals.

EROSION CONTROL BLANKET INSTALLATION DETAILS





DETAIL 1 DETAIL 2 DETAIL 3



*Note:
1. For sandy soil conditions, staple or push pin shall be a minimum 8 inches.

EROSION CONTROL BLANKET TURF REINFORCEMENT MAT

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STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

BLISS ROAD / WHEELER ROAD AT ILLINOIS ROUTE 47
EROSION CONTROL AND LANDSCAPING PLAN

SCALE: N.T.S. | SHEET NO. 3 OF 3 SHEETS | STA. | TO STA.

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
326	13-00026-00-CH	KANE	107	34
		CONTRACT NO. 61E52		
	ILLINOIS FED. AID PROJECT			

Plotted: 5/30/2018 11:58:02 AM By: lschmidt
FILE NAME: H:\SDSKPro\SG1108-Micro\Dgn Final Eng\SG1108-Cvr.dgn
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45 WHEELER ROAD

14-16-127-002

WHEELER ROAD

14-16-127-001

MH TY A, 4' DIA.
W/ TY 1 FR, CL
100+62.41, 31.41' LT
RIM 704.30
INV SE 696.48, 18"
INV W 696.38, 18"

18" SS TY 2
RCCP CL IV
10' @ 1.00%
TB 0 CY 0'

18" SS TY 2
RCCP CL IV
55' @ 1.00%
TB 0 CY 0'

MH TY A, 4' DIA.
W/ TY 1 FR, CL
100+54.25, 24.58' LT
RIM 704.20
INV E 696.28, 18"
INV N 696.20, 12"
INV S 696.20, 18"

IN TY B, 3' DIA.
W/ TY 11 F&G
100+75, 19.58' LT
TC 703.93
INV E 699.78, 12"

12" SS TY 1
RCCP CL IV
45' @ 1.00%
TB 7.4 CY 45'

EX ROW

PROJECT BEGINS
STA. 97+60.00

96 97 98 99 100+00

CENTERLINE WHEELER ROAD

WHEELER ROAD

50.3'
EXIST.
R.O.W.

MATCHLINE STA 101+00
SEE SHEET 36

18" SS TY 2
RCCP CL IV
69' @ 1.00%
TB 64.0 CY 55'

EX ROW

49.7'
EXIST.
R.O.W.

STA 99+60
25' HMA CE

W

FIRE HYDRANT TO
BE RELOCATED

52 WHEELER ROAD

14-16-126-001

SIGN

18" FLARED END SECTION
99+40, 28' RT
INV 703.10

18" SS TY 1
RCCP CL IV
84' @ 0.31%
TB 1.3 CY 44'

VALVE BOX
TO BE
ADJUSTED

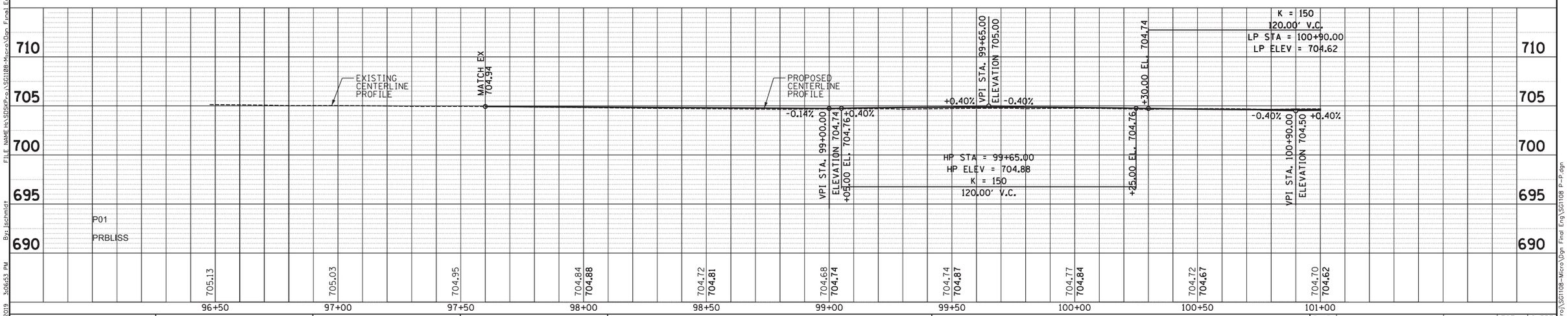
CB TY A, 4' DIA.
W/ TY 8 GR
100+16, 28' RT
RIM 706.07
INV N 703.36, 18"

WHEELER ROAD

14-16-126-002

N

0 20' 40'



P01

PRBLISS

FILE NAME: H:\SDSKProj\SG1108-Micro\Dgn Final Eng\SG1108 P-P.dgn

By: jschmidt

3:06:53 PM

Plotted: 2/13/2019

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Engineering Enterprises, Inc.
CONSULTING ENGINEERS
52 Wheeler Road
Sugar Grove, Illinois 60554
630.466.6700 / www.eeiweb.com

VILLAGE OF SUGAR GROVE
10 S. MUNICIPAL DRIVE
SUGAR GROVE, IL 60554

DESIGNED - CMF	REVISED -	
DRAWN - JPS	REVISED -	
CHECKED - TVW	REVISED -	
DATE - 08/11/2017	REVISED -	

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

BLISS ROAD / WHEELER ROAD AT ILLINOIS ROUTE 47
DRAINAGE AND UTILITY PLAN AND PROFILE

SCALE: 1"=20' | SHEET NO. 1 OF 2 SHEETS | STA. 97+60.00 TO STA. 101+00

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
326	13-00026-00-CH	KANE	107	35

CONTRACT NO. 61E52

ILLINOIS | FED. AID PROJECT

CB TY A, 4' DIA.
W/ TY 8 GR
101+01, 26.04' RT
RIM 705.50
INV N, 695.51, 18"
INV S, 695.10, 18"

CB TY A, 4' DIA.
W/ TY 11 F&G
101+25, 20.39' LT
TC 703.93
INV SE, NW 699.33, 12"
INV NE 698.90, 12"

12" SS TY 2
RCCP CL IV
8' @ 1.00%
TB 1.3 CY 3'

MH TY A, 4' DIA.
W/ TY 1 FR, CL
101+25, 30' LT
RIM 704.20
INV SW 698.82, 12"
INV E 697.13, 15"
INV NW 697.03, 18"

12" SS TY 1
RCCP CL IV
45' @ 1.00%
TB 7.4 CY 45

IN TY B, 3' DIA.
W/ TY 11 F&G
101+75, 22.07' LT
TC 703.93
INV NW 699.78, 12"

15" SS TY 2
RCCP CL IV
175' @ 1.00%
TB 0 CY 0'

15" SS TY 2
RCCP CL IV
8' @ 1.00%
TB 0.6 CY 3'

UTILITY CONFLICT
B/WM=697.9+/-
T/STM=696.77
WM PROTECTION REQ'D
(RUBBER GASKET STORM SEWER)

MATCHLINE STA 101+00
SEE SHEET 35

18" SS TY 2
RCCP CL IV
60' @ 1.00%
TB 25.3 CY 16'

WHEELER ROAD
14-16-126-002

MH TY A, 6' DIA.
W/ TY 1 F&R
101+23.60, 80.12' RT
RIM 705.20
INV NW, 695.55, 12"
INV N, 694.50, 18"
INV E, S 694.50, 30"

EX ROW

MANHOLE TO
BE ADJUSTED
TC 705.76

DIVISION DRIVE

CENTERLINE WHEELER ROAD

WHEELER ROAD
14-16-127-001

MH TY A, 4' DIA.
W/ TY 1 FR, CL
103+30 35' LT
RIM 703.75
INV S 698.98, 15"
INV W 698.88, 15"

15" SS TY 1
RCCP CL IV
10' @ 1.00%
TB 1.3 CY 10'

INL TY B, 3' DIA.
W/ TY 11 F&G
103+40, 27.58' LT
TC 703.41
INV NW 699.26, 15"

CB TY A, 4' DIA.
W/ TY 11 F&G
103+30, 27.58' LT
TC 703.37
INV E 699.16, 15"
INV N 699.06, 15"

51.8'
EXIST.
R.O.W.

48.2'
EXIST.
R.O.W.

WHEELER ROAD

CB TY C, 2' DIA.
W/ TY 8 GR
104+00, 33' RT
RIM 704.00
INV SE 700.90, 12"

UTILITY CONFLICT
B/STM=700.65
T/WM=698.2+/-
WM PROTECTION REQ'D
(RUBBER GASKET STORM SEWER)

CB TY A, 5' DIA.
W/ TY 11 F&G
101+68.56, 57.85' RT
TC 705.90
INV E, W 694.00, 30"

EX. PATHWAY EASEMENT
EX. TEMP. EASEMENT
EX. DRAINAGE & UTILITY EASEMENT

12" SS TY 2
RCCP CL IV
35' @ 1.00%
TB 3.1 CY 22'

MH TY A, 5' DIA.
W/ TY 1 FR, CL
104+31.74, 48.63' RT
RIM 705.10
INV W 700.55, 12"
INV NE, SW 693.48, 30"

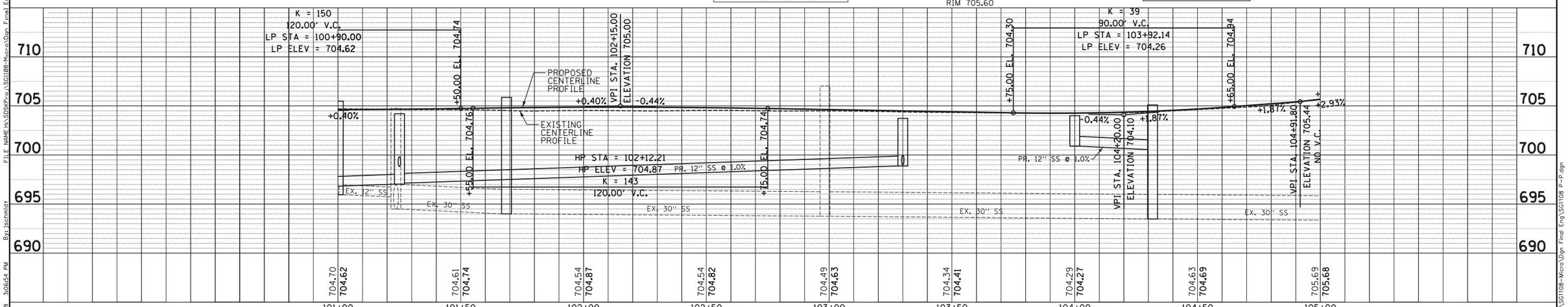
VALVE VAULT
TO BE ADJUSTED
RIM 705.60

IL ROUTE 47

670 N. SUGAR GROVE PRKWY

N

0 20' 40'



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VILLAGE OF SUGAR GROVE
10 S. MUNICIPAL DRIVE
SUGAR GROVE, IL 60554

DESIGNED	CMF	REVISED	-
DRAWN	JPS	REVISED	-
CHECKED	TVW	REVISED	-
DATE	08/11/2017	REVISED	-

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

BLISS ROAD / WHEELER ROAD AT ILLINOIS ROUTE 47
DRAINAGE AND UTILITY PLAN AND PROFILE

SCALE: 1"=20' | SHEET NO. 2 OF 2 SHEETS | STA. 101+00 TO STA. 105+00

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
326	13-00026-00-CH	KANE	107	36
		CONTRACT NO. 61E52		
	ILLINOIS FED. AID PROJECT			

Plotted: 2/13/2019 3:06:54 PM By: jschmidt
FILE NAME = H:\SDSKPro\S01108-Micro\Dgn Final Eng\S01108 P-P.dgn
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412 BLISS ROAD
14-16-200-005

420 BLISS ROAD
14-16-200-006

428 BLISS ROAD
14-16-200-054

CAPITOL DRIVE
14-16-202-001

N

0 20' 40'

MH TY A, 4' DIA.
W/ TY 1 FR, CL
108+69.40, 49.91' LT
RIM 699.84
INV W, E 695.92, 18"

INL TY B, 3' DIA.
W/ TY 24 F&G
108+48, 31.58' LT
TC 706.35
INV S 702.20, 12"

STA 107+96
34' HMA PE

EX ROW

18" SS TY 1
RCCP CL IV
40' @ 0.28%
TB 0 CY 0'

PR PERM. EASEMENT

18" FLARED END SECTION
109+11.34, 59.3' LT
INV 695.81

PR TEMP. EASEMENT

INL TY B, 3' DIA.
W/ TY 24 F&G
109+95, 31.58' LT
TC 704.64
INV S 700.49, 12"

EX ROW

CB TY A, 4' DIA.
W/ TY 11 F&G
108+48, 13.50 ' RT
TC 706.75
INV N 701.78, 12"
INV E 701.68, 12"

12" SS TY 2
RCCP CL IV
42' @ 1.00%
TB 6.9 CY 42'

35.7' EX. R.O.W.

57.3' EX. R.O.W.

MATCHLINE STA 110+00
SEE SHEET 38

IL RT 47 STA 307+08.60 =
WHEELER/BLISS STA 105+39.10

105+00 106 107 108 109

BLISS ROAD

CENTERLINE BLISS ROAD

30" SS TY 2
RCCP CL IV
38' @ 0.24%
TB 103.2 CY 38'

MH TY A, 5' DIA.
W/ TY 1 FR, CL
106+08.12, 53.53' RT
RIM 708.00
INV W 693.15, 30"
INV E 693.15, 30"

30" SS TY 2
RCCP CL IV
111' @ 0.23%
TB 0 CY 0'

UTILITY CONFLICT
B/STM=700.84
T/WM=699.1+/-
WM PROTECTION REQ'D
(RUBBER GASKET STORM SEWER)

12" SS TY 2
RCCP CL IV
44' @ 1.00%
TB 7.9 CY 44'

VALVE VAULT
TO BE
ADJUSTED
RIM=704.90

12" SS TY 2
RCCP CL IV
67' @ 1.00%
TB 10.7 CY 67'

CB TY A, 5' DIA.
W/ TY 11 F&G
109+95, 38.76' RT
TC 704.72
INV N 699.82 , 12"
INV E, W 699.05, 36"

FIRE HYDRANT
TO BE MOVED

FIRE HYDRANT
TO BE MOVED

EX ROW

CB TY A, 4' DIA.
W/ TY 24 F&G
107+54, 34.58' RT
TC 707.06
INV S 701.10, 12"

12" SS TY 2
RCCP CL IV
27' @ 1.00%
TB 7.7 CY 17'

MH TY A, 6' DIA.
W/ TY 11 F&G
108+81.56, 40.06' RT
TC 705.59
INV W 701.24, 12"
INV SW, NE 700.47, 36"

36" SS TY 1
RCCP CL IV
39' @ 0.41%
TB 3.1 CY 31'

UTILITY CONFLICT
B/STM=700.09
T/WM=698.0+/-
WM PROTECTION REQ'D
(RUBBER GASKET STORM SEWER)

MH TY A, 5' DIA.
W/ TY 1 FR, CL
106+43.14, 67.50' RT
RIM 707.70
INV W 693.06, 30"
INV E 693.06, 30"

MH TY A, 5' DIA.
W/ TY 1 FR, CL
107+54, 61.79' RT
RIM 704.00
INV N 700.83, 12"
INV W, E 692.80, 30"

36" FLARED END SECTION
107+57, 71' RT
INV 701.00

36" SS TY 1
RCCP CL IV
91' @ 0.41%
TB 0.0 CY 0'

UTILITY CONFLICT
B/STM=700.45
T/STM=695.47

MH TY A, 5' DIA.
W/ TY 1 FR, CL
108+48, 60' RT
RIM 705.60
INV SW, NE 700.63, 36"

IL ROUTE 47

CENTERLINE IL. 47

PROPOSED CENTERLINE PROFILE

EXISTING CENTERLINE PROFILE

VPI STA. 105+16.00
ELEVATION 706.15
NO V.C.

+2.36%

2.93%

VPI STA. 105+63.00
ELEVATION 707.26
NO V.C.

+3.00%

VPI STA. 105+87.30
ELEVATION 707.99
NO V.C.

+0.68%

+88.00 EL. 707.99

VPI STA. 106+33.00
ELEVATION 708.30

+0.68%

-1.31%

HP STA = 106+18.65
HP ELEV = 708.10
K = 45
90.00' V.C.

+78.00 EL. 707.71

-1.31%

VPI STA. 107+00.00
ELEVATION 707.42
NO V.C.

-0.87%

VPI STA. 107+60.00
ELEVATION 706.90
NO V.C.

-0.87%

-0.42%

VPI STA. 108+20.00
ELEVATION 706.65
NO V.C.

-0.42%

-1.19%

PR. 36" SS @ 0.11%

PR. 36" SS @ 1.25%

-1.19%

VPI STA. 109+00.00
ELEVATION 705.70
NO V.C.

-0.88%

EX. 36" SS

PR. 18" SS @ 0.26%

VPI STA. 109+80.00
ELEVATION 705.00
NO V.C.

-0.88%

-1.05%

EX. 18" SS

EX. 30" SS

EX. 30" SS

EX. 30" SS

EX. 30" SS

710 705 700 695 690

705.69 705.68 | 706.90 706.95 | 708.05 708.06 | 707.91 707.99 | 707.42 707.42 | 706.93 706.99 | 706.73 706.73 | 706.29 706.29 | 705.69 705.70 | 705.23 705.26 | 704.88 704.79

105+00 105+50 106+00 106+50 107+00 107+50 108+00 108+50 109+00 109+50 110+00

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VILLAGE OF SUGAR GROVE
10 S. MUNICIPAL DRIVE
SUGAR GROVE, IL 60554

DESIGNED	CMF	REVISED	-
DRAWN	JPS	REVISED	-
CHECKED	TVW	REVISED	-
DATE	08/11/2017	REVISED	-

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

BLISS ROAD / WHEELER ROAD AT ILLINOIS ROUTE 47
DRAINAGE AND UTILITY PLAN AND PROFILE

SCALE: 1"=20' | SHEET NO. 1 OF 2 SHEETS | STA. 105+00 TO STA. 110+00

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
326	13-00026-00-CH	KANE	107	37
		CONTRACT NO. 61E52		
	ILLINOIS FED. AID PROJECT			

Plotted: 2/13/2019 3:06:55 PM By: jschmidt
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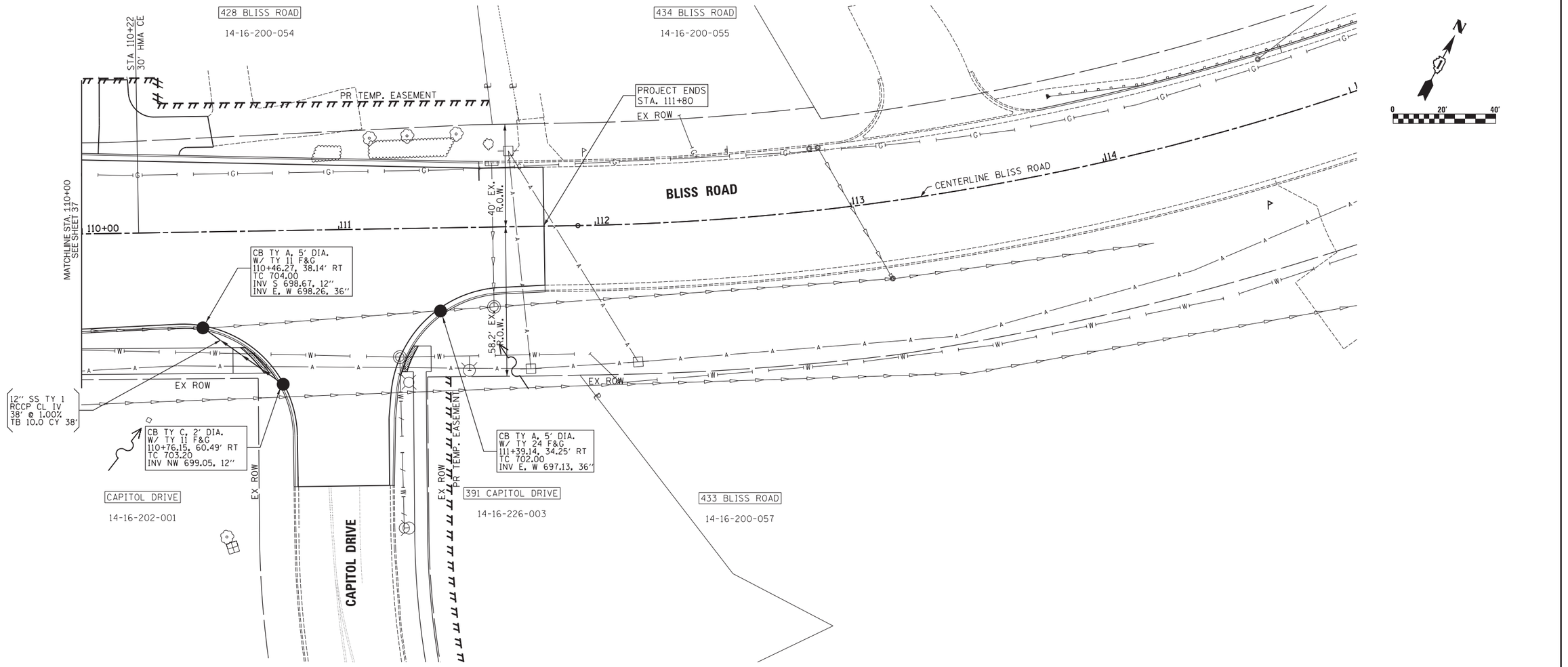

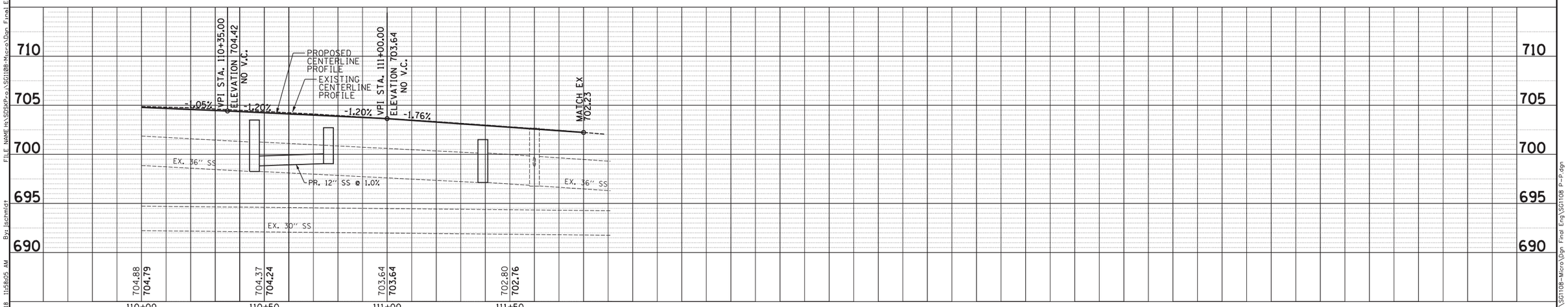

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DESIGNED	- CMF	REVISED	-
DRAWN	- JPS	REVISED	-
CHECKED	- TVW	REVISED	-
DATE	- 08/11/2017	REVISED	-

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

BLISS ROAD / WHEELER ROAD AT ILLINOIS ROUTE 47
DRAINAGE AND UTILITY PLAN AND PROFILE

SCALE: 1"=20' | SHEET NO. 2 OF 2 SHEETS | STA. 110+00 TO STA. 111+80.00

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
326	13-00026-00-CH	KANE	107	38
		CONTRACT NO. 61E52		
	ILLINOIS FED. AID PROJECT			

Plotted: 5/30/2018 11:58:05 AM By: jschmidt
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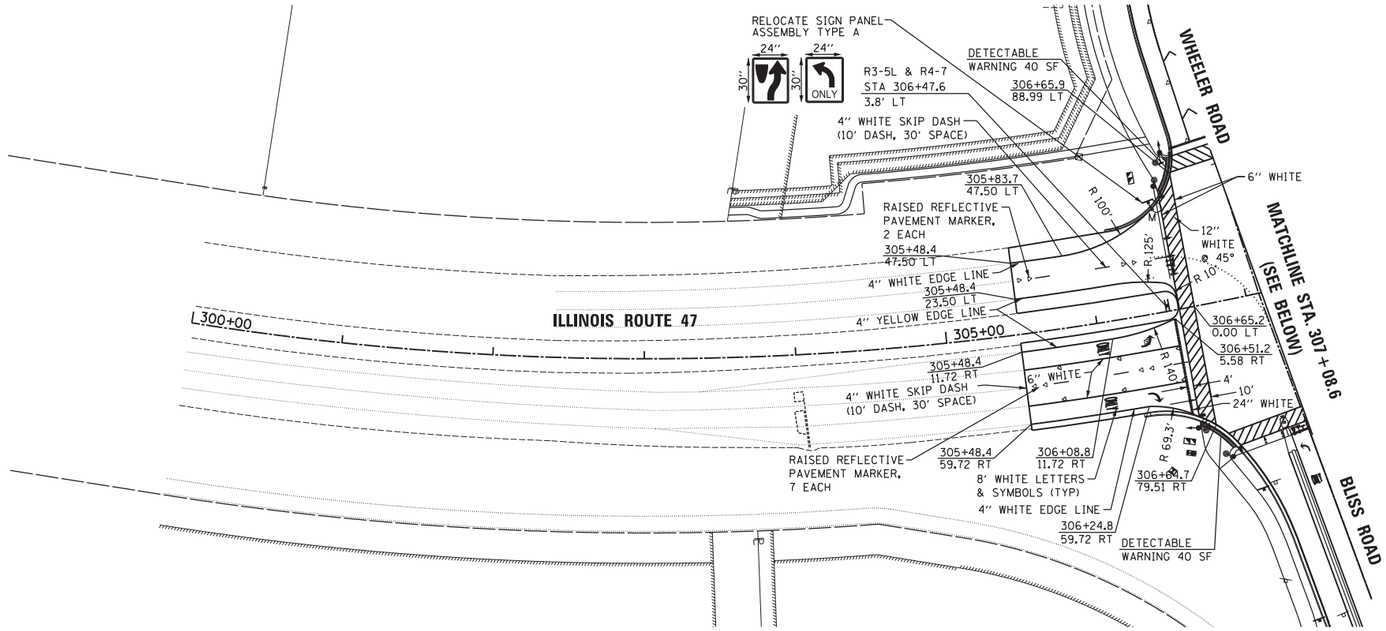

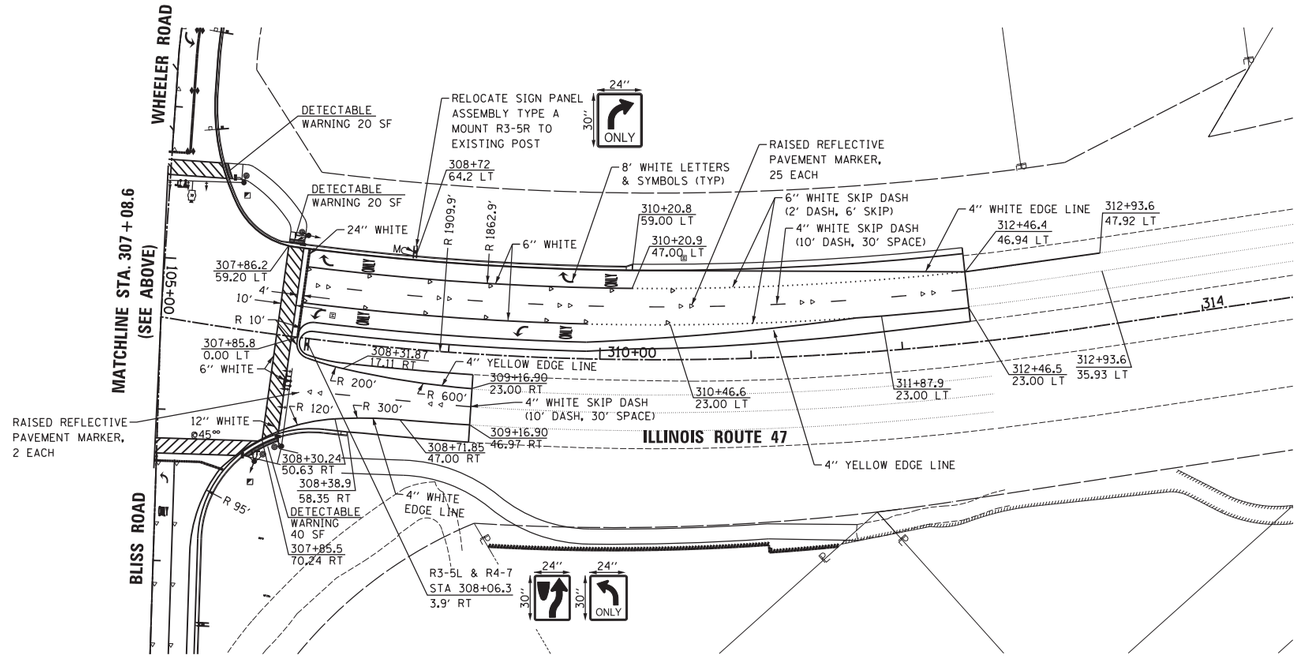

CURVE 1
PI STA. = 306+72.71
Δ = 38° 48' 27" (LT)
D = 3° 00' 00"
R = 1,909.86'
T = 672.71'
L = 1,293.58'
E = 115.01'
e = 4.2% (EX)
T.R. = N/A (EX)
S.E. RUN = N/A (EX)
P.C. STA. = 300+00.00
P.T. STA. = 312+93.58

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STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

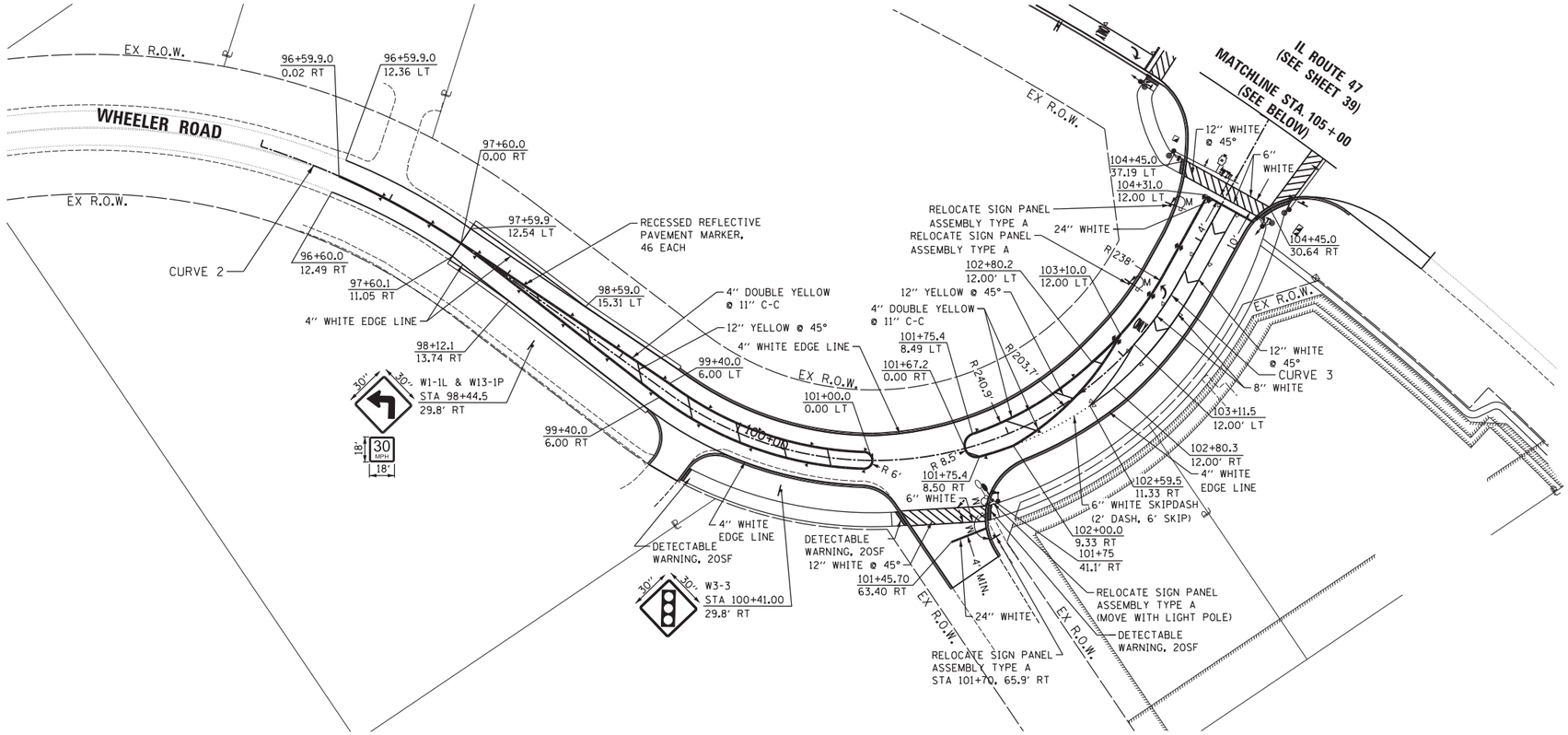
BLISS ROAD / WHEELER ROAD AT ILLINOIS ROUTE 47
PAVEMENT MARKING AND SIGNAGE PLAN

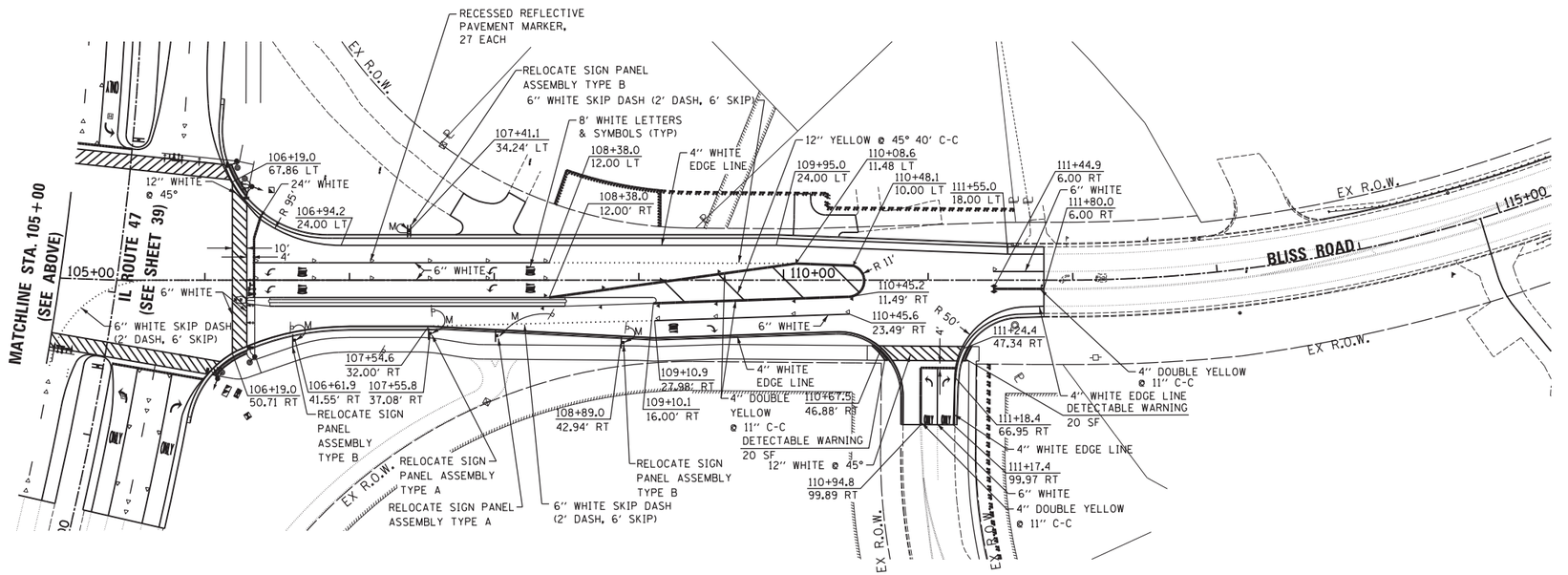
SCALE: 1"=50' | SHEET NO. 1 OF 2 SHEETS | STA. 300+00 TO STA. 312+00

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
326	13-00026-00-CH	KANE	107	39
		CONTRACT NO. 61E52		
	ILLINOIS FED. AID PROJECT			

CURVE 2
PI STA. = 96+91.17
Δ = 18° 08′ 16″ (RT)
D = 10° 01′ 53″
R = 571.16′
T = 91.17′
L = 180.81′
E = 7.23′
e = 6.0% (EX)
T.R. = N/A (EX)
S.E. RUN = N/A (EX)
P.C. STA. = 96+00.00
P.T. STA. = 97+80.81

CURVE 3
PI STA. = 102+26.69
Δ = 96° 55′ 16″ (LT)
D = 22° 55′ 06″
R = 250.00′
T = 282.18′
L = 422.90′
E = 127.00′
e = 6.0% (EX)
T.R. = N/A (EX)
S.E. RUN = N/A (EX)
P.C. STA. = 99+44.51
P.T. STA. = 103+67.41





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VILLAGE OF SUGAR GROVE
10 S. MUNICIPAL DRIVE
SUGAR GROVE, IL 60554

DESIGNED - CMF	REVISED -	
DRAWN - JPS	REVISED -	
CHECKED - TVW	REVISED -	
DATE - 08/11/2017	REVISED -	

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

BLISS ROAD / WHEELER ROAD AT ILLINOIS ROUTE 47
PAVEMENT MARKING AND SIGNAGE PLAN

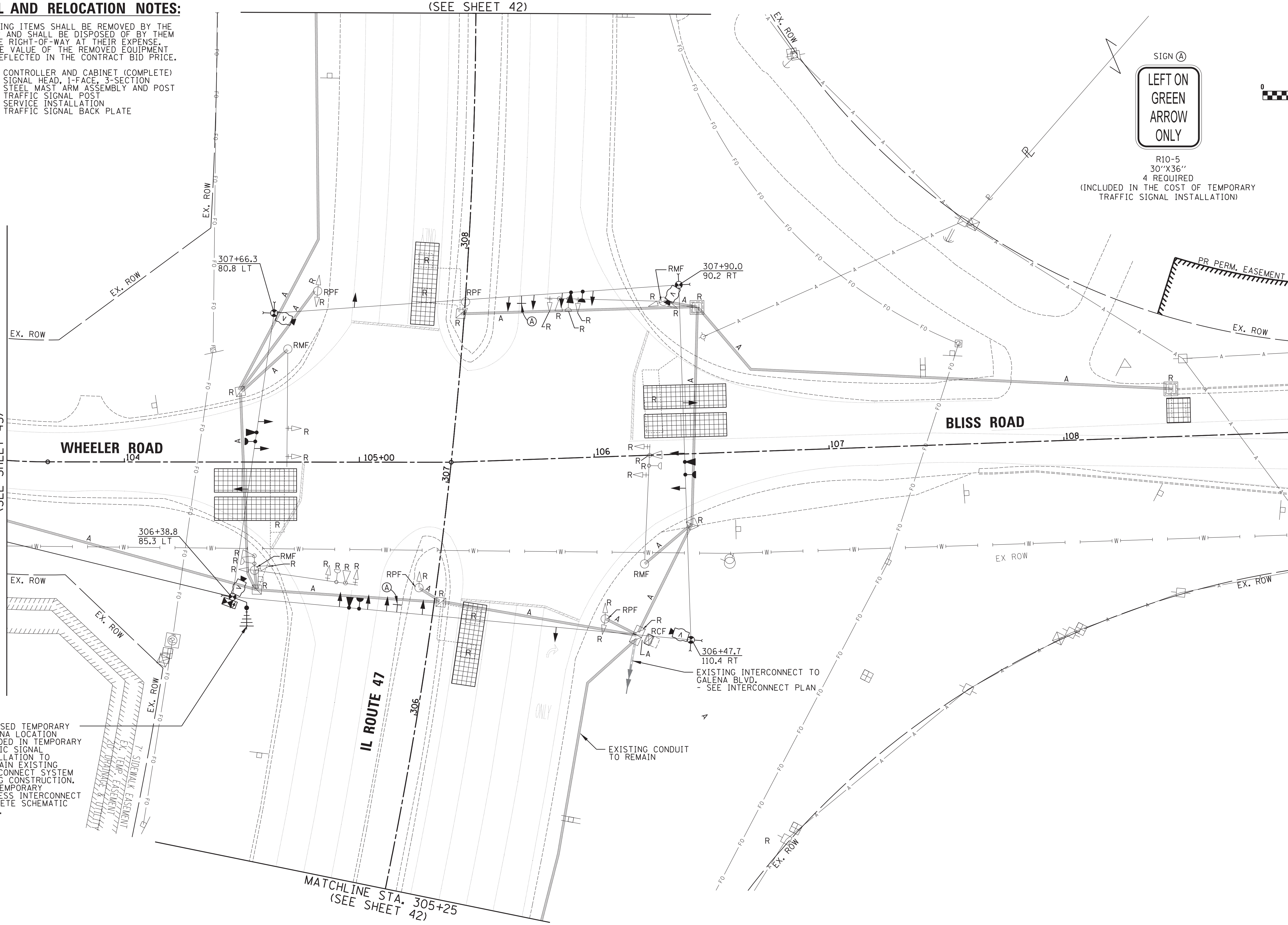
SCALE: 1"=50' | SHEET NO. 2 OF 2 SHEETS | STA. 96+00 TO STA. 115+00

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
326	13-00026-00-CH	KANE	107	40
		CONTRACT NO. 61E52		
	ILLINOIS FED. AID PROJECT			

REMOVAL AND RELOCATION NOTES:

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

1	EACH	CONTROLLER AND CABINET (COMPLETE)
18	EACH	SIGNAL HEAD, 1-FACE, 3-SECTION
4	EACH	STEEL MAST ARM ASSEMBLY AND POST
5	EACH	TRAFFIC SIGNAL POST
1	EACH	SERVICE INSTALLATION
12	EACH	TRAFFIC SIGNAL BACK PLATE



TS 868
EAGLE 50

TS SHT NO. 1

Plotted: 6/1/2018 9:10:39 AM By: jschmidt FILE NAME H:\SDSKProj\SG1108-Micro\Dgn Final Eng\SG1108 TS PLAN SHEETS 20SC.dgn

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STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

TEMPORARY TRAFFIC SIGNAL INSTALLATION AND REMOVE EXISTING TRAFFIC SIGNAL EQUIPMENT PLAN – PRE STAGE
BLISS ROAD / WHEELER ROAD AT ILLINOIS ROUTE 47

SCALE: 1''=20' | SHEET NO. 1 OF 16 SHEETS | STA. | TO STA.

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
326	13-00026-00-CH	KANE	107	41
		CONTRACT NO. 61E52		

ILLINOIS | FED. AID PROJECT

Path: H:\SDSKProj\SG1108-Micro\Dgn Final Eng\SG1108 TS PLAN SHEETS 20SC.dgn

TS SHT NO. 2

TS 868
EAGLE 50

Engineering Enterprises, Inc. CONSULTING ENGINEERS 52 Wheeler Road Sugar Grove, Illinois 60554 630.466.6700 / www.eeiweb.com	VILLAGE OF SUGAR GROVE 10 S. MUNICIPAL DRIVE SUGAR GROVE, IL 60554	STATE OF ILLINOIS DEPARTMENT OF TRANSPORTATION	TEMPORARY TRAFFIC SIGNAL INSTALLATION AND REMOVE EXISTING TRAFFIC SIGNAL EQUIPMENT PLAN – PRE STAGE BLISS ROAD /WHEELER ROAD AT ILLINOIS ROUTE 47

DESIGNED - CMF	REVISED -		
DRAWN - JPS	REVISED -		
CHECKED - TVW	REVISED -		
DATE - 08/11/2017	REVISED -		

SCALE: 1"=20' | SHEET NO. 2 OF 16 SHEETS | STA. 302+00 TO STA. 312+46.50

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
326	13-00026-00-CH	KANE	107	42
		CONTRACT NO. 61E52		
		ILLINOIS FED. AID PROJECT		

Plotted: 6/1/2018 9:10:39 AM By: jschmidt
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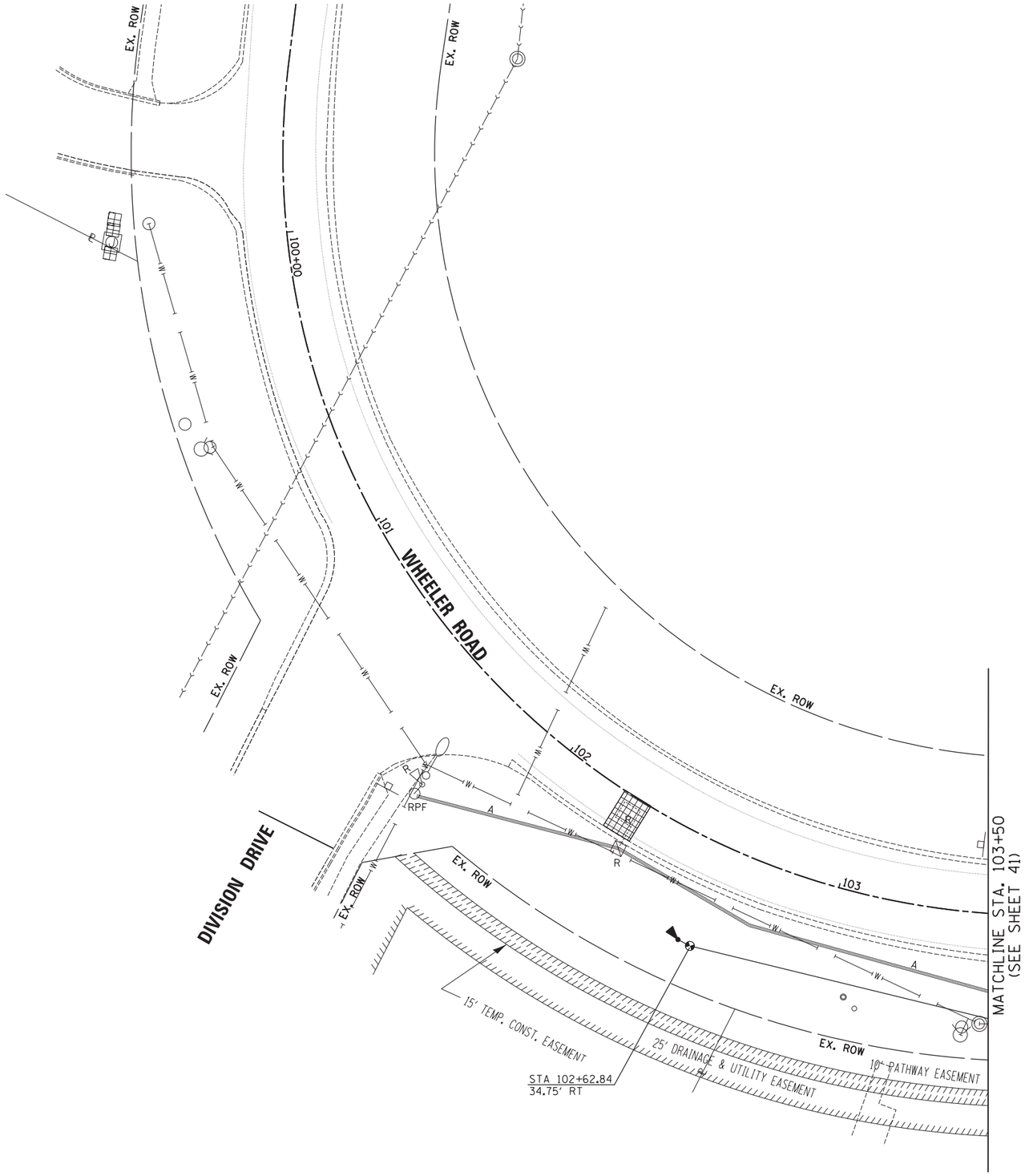


TS SHT NO. 3

Plotted: 5/31/2018 4:02:05 PM By: jschmidt FILE NAME: H:\SDSKPro\SG1108-Micro\Dgn Final Eng\SG1108 TS PLAN SHEETS 205C.dgn

Path: H:\SDSKPro\SG1108-Micro\Dgn Final Eng\SG1108 TS PLAN SHEETS 205C.dgn

TS 868
EAGLE 50

Engineering Enterprises, Inc.
CONSULTING ENGINEERS
52 Wheeler Road
Sugar Grove, Illinois 60554
630.466.6700 / www.eeiweb.com

VILLAGE OF SUGAR GROVE
10 S. MUNICIPAL DRIVE
SUGAR GROVE, IL 60554

DESIGNED - CMF	REVISED -	
DRAWN - JPS	REVISED -	
CHECKED - TVW	REVISED -	
DATE - 08/11/2017	REVISED -	

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

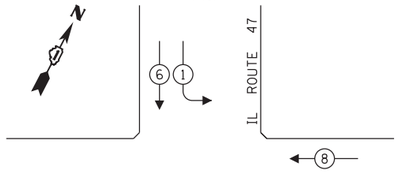
TEMPORARY TRAFFIC SIGNAL INSTALLATION AND REMOVE EXISTING
TRAFFIC SIGNAL EQUIPMENT PLAN – PRE STAGE
BLISS ROAD / WHEELER ROAD AT ILLINOIS ROUTE 47

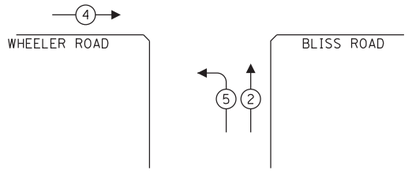
SCALE: 1"=20' | SHEET NO. 3 OF 16 SHEETS | STA. 109+25 TO STA. 112+00

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
326	13-00026-00-CH	KANE	107	43
		CONTRACT NO. 61E52		
	ILLINOIS FED. AID PROJECT			

TEMPORARY CONTROLLER SEQUENCE

N.T.S.





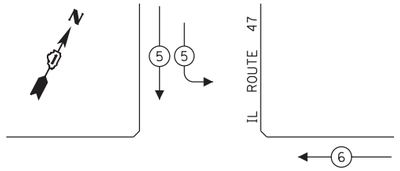
LEGEND:

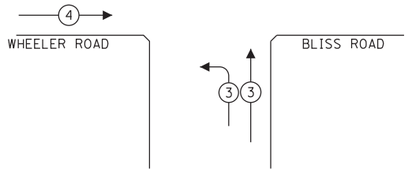
- PROTECTED PHASE
- PROTECTED/PERMITTED PHASE
- PEDESTRIAN PHASE
- OL — OVERLAP

TEMPORARY PHASE DESIGNATION DIAGRAM
PRE STAGE

TEMPORARY EMERGENCY VEHICLE PREEMPTION SEQUENCE
PRE STAGE

N.T.S.





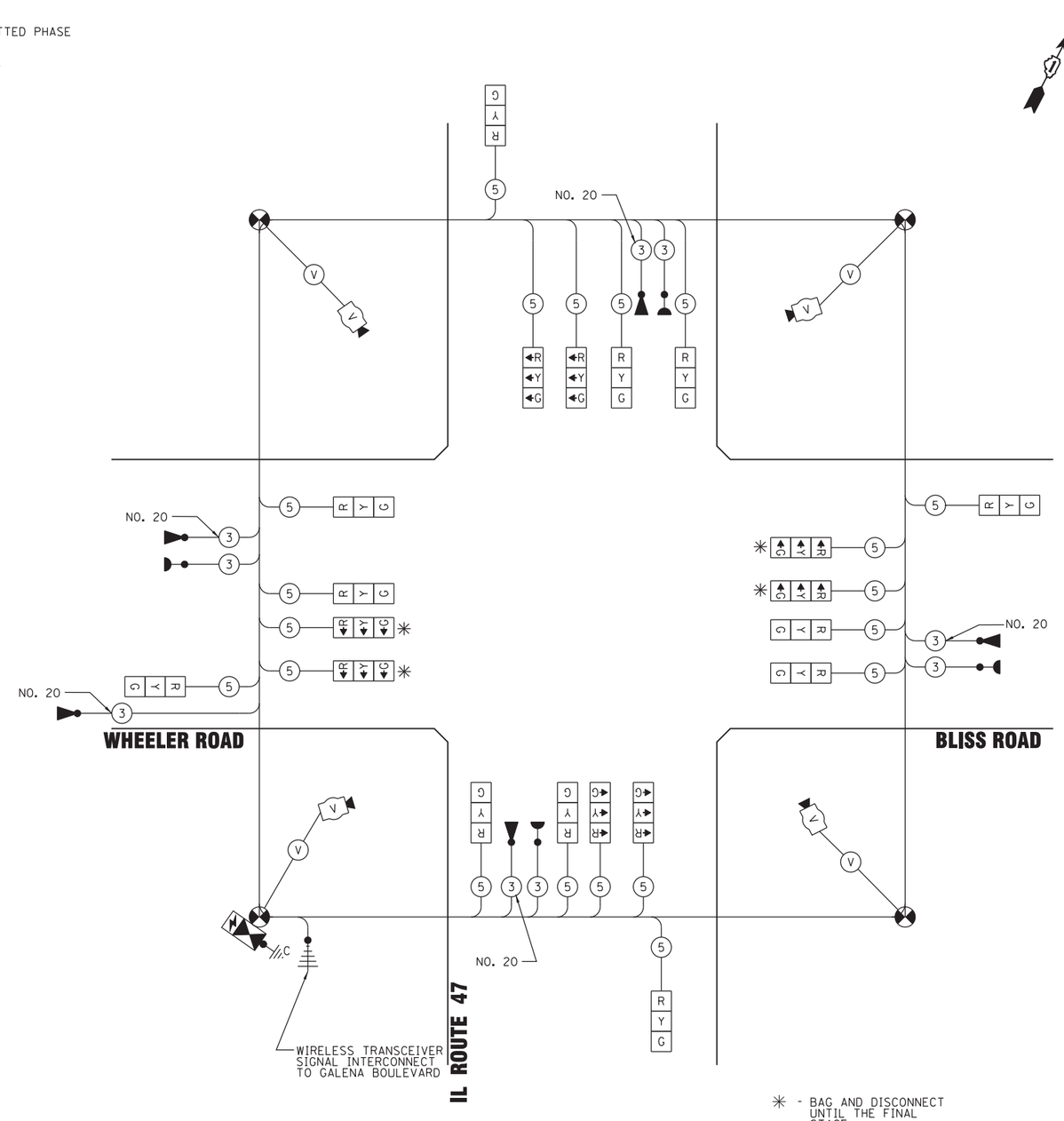
TRAFFIC SIGNAL ELECTRICAL SERVICE REQUIREMENTS

TYPE	NO. OF LAMPS	LED WATTAGE	% OPERATION	TOTAL WATTAGE
SIGNAL (RED)	12	11	50	66.0
(YELLOW)	12	20	25	60.0
(GREEN)	12	12	25	36.0
PERMISSIVE ARROW	12	10	10	12.0
PED. SIGNAL	_	20	100	_
CONTROLLER	1	100	100	100.0
UPS	1	25	100	25.0
VIDEO SYSTEM	1	150	100	150.0
BLANK-OUT SIGN	-	_	_	-
FLASHER	-	-	50	-
STREET NAME SIGN	-	_	_	-
LUMINAIRE	-	-	-	-
			TOTAL =	549

ENERGY COSTS TO:

VILLAGE OF SUGAR GROVE
10 MUNICIPAL DRIVE
SUGAR GROVE, IL 60554

ENERGY SUPPLY: CONTACT: TOM PERKINS
PHONE: 630-723-2127
COMPANY: COMMONWEALTH EDISON
ACCOUNT NUMBER:



CABLE PLAN
(NOT TO SCALE)

TS 868
EAGLE 50

TS SHT NO. 4

Engineering Enterprises, Inc.
CONSULTING ENGINEERS
52 Wheeler Road
Sugar Grove, Illinois 60554
630.466.6700 / www.eeiweb.com

VILLAGE OF SUGAR GROVE
10 S. MUNICIPAL DRIVE
SUGAR GROVE, IL 60554

DESIGNED - CMF		REVISED -
DRAWN - JPS		REVISED -
CHECKED - TVW		REVISED -
DATE - 08/11/2017		REVISED -

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

TEMPORARY CABLE PLAN, TEMPORARY PHASE DESIGNATION DIAGRAM, AND TEMPORARY E.V.P. SEQUENCE – PRE STAGE
BLISS ROAD /WHEELER ROAD AT ILLINOIS ROUTE 47

SCALE: N.T.S. | SHEET NO. 4 OF 16 SHEETS | STA. | TO STA.

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
326	13-00026-00-CH	KANE	107	44
		CONTRACT NO. 61E52		
		ILLINOIS FED. AID PROJECT		

Plotted: 5/31/2018 4:02:05 PM By: Ischmidt
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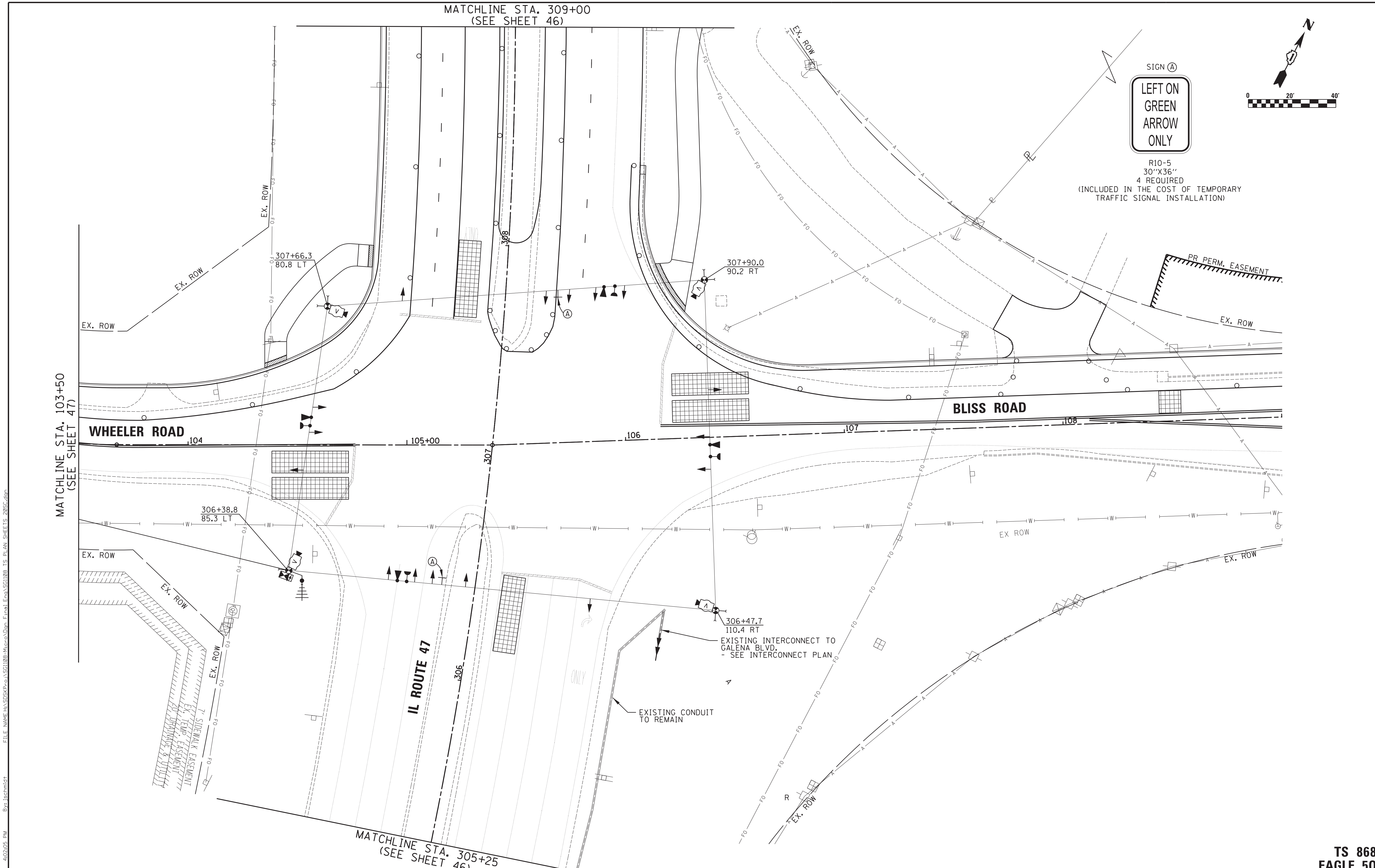

TS 868
EAGLE 50

TS SHT NO. 5

Plotted: 5/31/2018 4:02:05 PM By: jschmidt

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Path: H:\SDSKProj\SG1108-Micro\Dgn Final Eng\SG1108 TS PLAN SHEETS 20SC.dgn

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CONSULTING ENGINEERS
52 Wheeler Road
Sugar Grove, Illinois 60554
630.466.6700 / www.eeiweb.com

VILLAGE OF SUGAR GROVE
10 S. MUNICIPAL DRIVE
SUGAR GROVE, IL 60554

DESIGNED	- CMF	REVISED	-
DRAWN	- JPS	REVISED	-
CHECKED	- TVW	REVISED	-
DATE	- 08/11/2017	REVISED	-

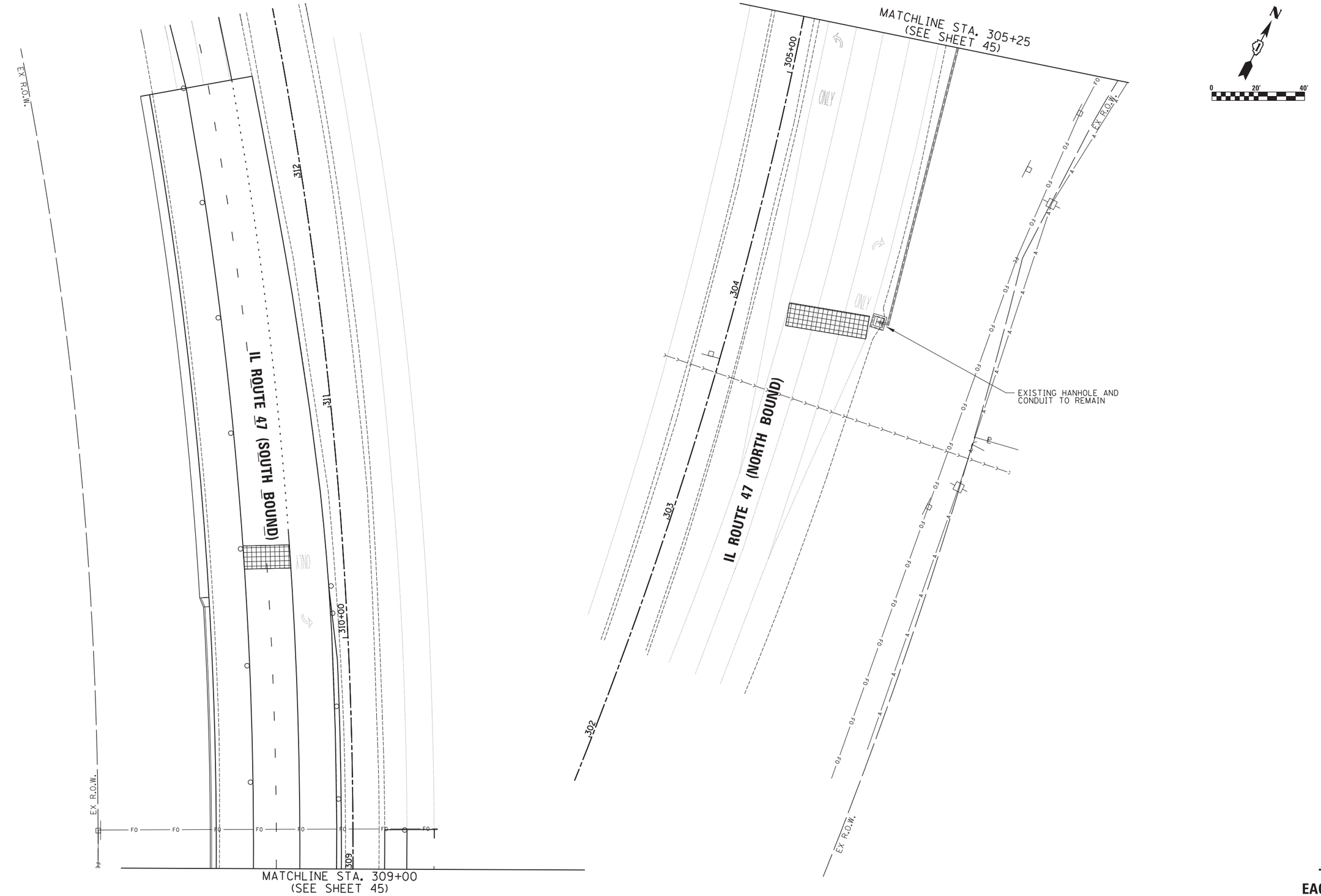
STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

TEMPORARY TRAFFIC SIGNAL INSTALLATION AND REMOVE EXISTING
TRAFFIC SIGNAL EQUIPMENT PLAN – STAGE 1
BLISS ROAD / WHEELER ROAD AT ILLINOIS ROUTE 47

SCALE: 1''=20' | SHEET NO. 5 OF 16 SHEETS | STA. | TO STA.

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
326	13-00026-00-CH	KANE	107	45
		CONTRACT NO. 61E52		

ILLINOIS | FED. AID PROJECT



TS 868
EAGLE 50

TS SHT NO. 6

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Path: H:\SDSKPro\SG1108-Micro\Dgn Final Eng\SG1108 TS PLAN SHEETS 205C.dgn

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VILLAGE OF SUGAR GROVE
10 S. MUNICIPAL DRIVE
SUGAR GROVE, IL 60554

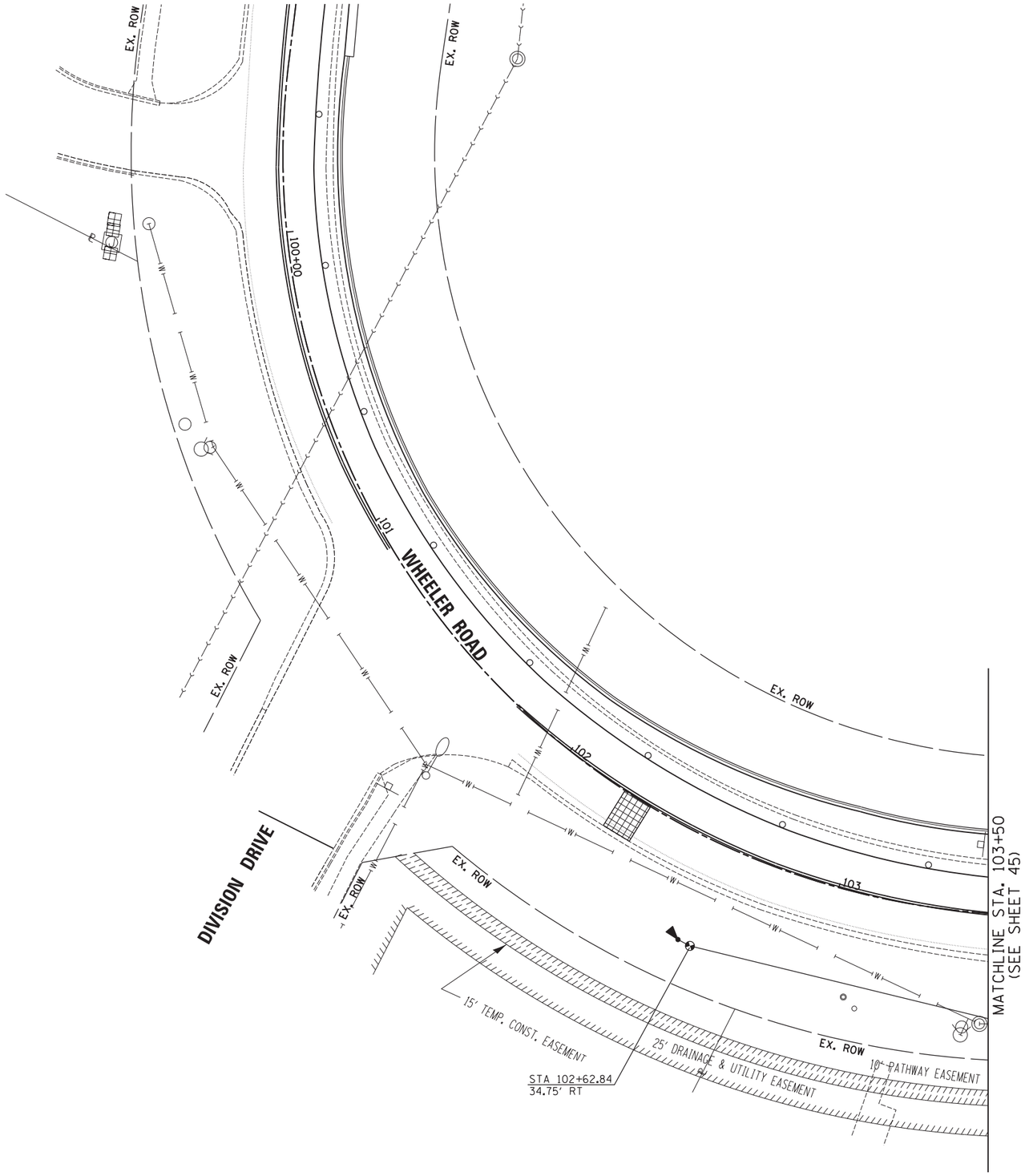
DESIGNED - CMF	REVISED -	
DRAWN - JPS	REVISED -	
CHECKED - TVW	REVISED -	
DATE - 08/11/2017	REVISED -	

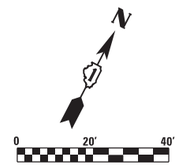
STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

TEMPORARY TRAFFIC SIGNAL INSTALLATION AND REMOVE EXISTING TRAFFIC SIGNAL EQUIPMENT PLAN – STAGE 1
BLISS ROAD /WHEELER ROAD AT ILLINOIS ROUTE 47

SCALE: 1"=20' | SHEET NO. 6 OF 16 SHEETS | STA. 302+00 TO STA. 312+46.50

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
326	13-00026-00-CH	KANE	107	46
		CONTRACT NO. 61E52		
	ILLINOIS FED. AID PROJECT			





TS 868
EAGLE 50

TS SHT NO. 7

Plotted: 5/31/2018 4:02:06 PM By: jschmidt FILE NAME: H:\SDSKPro\SG1108-Micro\Dgn Final Eng\SG1108 TS PLAN SHEETS 205C.dgn

Path: H:\SDSKPro\SG1108-Micro\Dgn Final Eng\SG1108 TS PLAN SHEETS 205C.dgn

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Sugar Grove, Illinois 60554
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VILLAGE OF SUGAR GROVE
10 S. MUNICIPAL DRIVE
SUGAR GROVE, IL 60554

DESIGNED - CMF	REVISED -	
DRAWN - JPS	REVISED -	
CHECKED - TVW	REVISED -	
DATE - 08/11/2017	REVISED -	

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

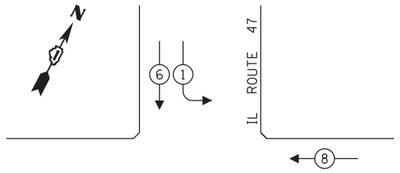
TEMPORARY TRAFFIC SIGNAL INSTALLATION AND REMOVE EXISTING
TRAFFIC SIGNAL EQUIPMENT PLAN – STAGE 1
BLISS ROAD / WHEELER ROAD AT ILLINOIS ROUTE 47

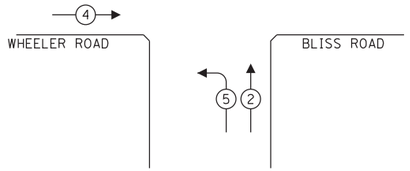
SCALE: 1"=20' | SHEET NO. 7 OF 16 SHEETS | STA. 109+25 TO STA. 112+00

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
326	13-00026-00-CH	KANE	107	47
		CONTRACT NO. 61E52		
	ILLINOIS FED. AID PROJECT			

TEMPORARY CONTROLLER SEQUENCE

N.T.S.





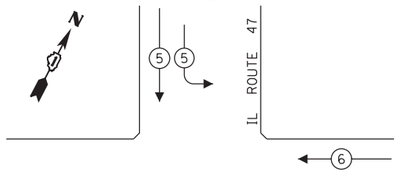
LEGEND:

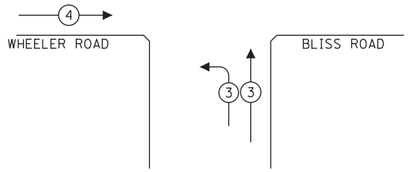
- PROTECTED PHASE
- PROTECTED/PERMITTED PHASE
- PEDESTRIAN PHASE
- OL — OVERLAP

TEMPORARY PHASE DESIGNATION DIAGRAM
STAGE 1

TEMPORARY EMERGENCY VEHICLE PREEMPTION SEQUENCE
STAGE 1

N.T.S.





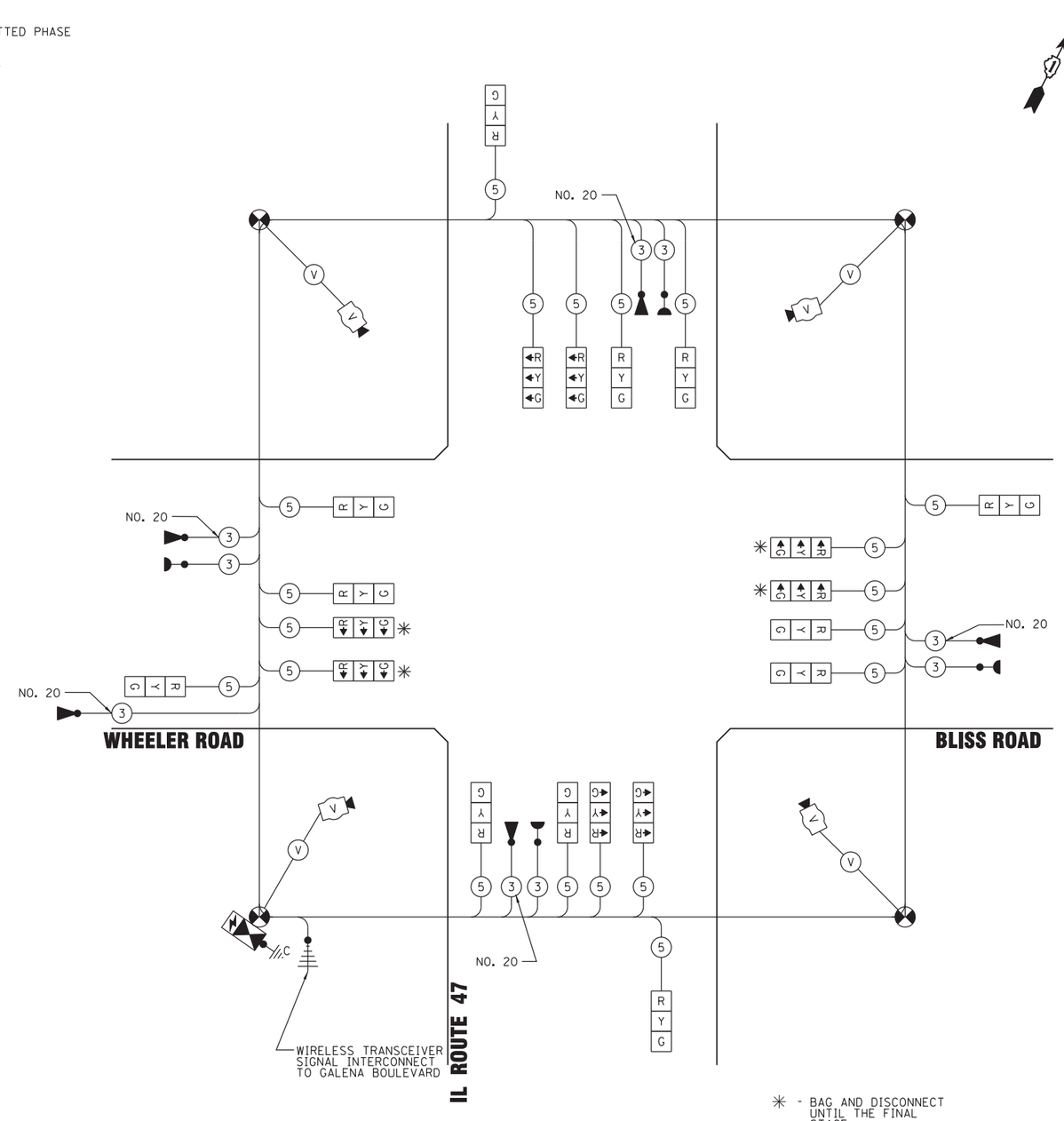
TRAFFIC SIGNAL ELECTRICAL SERVICE REQUIREMENTS

TYPE	NO. OF LAMPS	LED WATTAGE	% OPERATION	TOTAL WATTAGE
SIGNAL (RED)	12	11	50	66.0
(YELLOW)	12	20	25	60.0
(GREEN)	12	12	25	36.0
PERMISSIVE ARROW	12	10	10	12.0
PED. SIGNAL	_	20	100	_
CONTROLLER	1	100	100	100.0
UPS	1	25	100	25.0
VIDEO SYSTEM	1	150	100	150.0
BLANK-OUT SIGN	-	_	_	-
FLASHER	-	-	50	-
STREET NAME SIGN	-	_	_	-
LUMINAIRE	-	-	-	-
			TOTAL =	549

ENERGY COSTS TO:

VILLAGE OF SUGAR GROVE
10 MUNICIPAL DRIVE
SUGAR GROVE, IL 60554

ENERGY SUPPLY: CONTACT: TOM PERKINS
PHONE: 630-723-2127
COMPANY: COMMONWEALTH EDISON
ACCOUNT NUMBER:



CABLE PLAN
(NOT TO SCALE)

TS 868
EAGLE 50

TS SHT NO. 8

Plotted: 5/31/2018 4:02:06 PM By: lschmidt
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CONSULTING ENGINEERS
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630.466.6700 / www.eeiweb.com

VILLAGE OF SUGAR GROVE
10 S. MUNICIPAL DRIVE
SUGAR GROVE, IL 60554

DESIGNED - CMF		REVISED -
DRAWN - JPS		REVISED -
CHECKED - TVW		REVISED -
DATE - 08/11/2017		REVISED -

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

TEMPORARY CABLE PLAN, TEMPORARY PHASE DESIGNATION DIAGRAM, AND TEMPORARY E.V.P. SEQUENCE – STAGE 1
BLISS ROAD /WHEELER ROAD AT ILLINOIS ROUTE 47

SCALE: N.T.S. | SHEET NO. 8 OF 16 SHEETS | STA. | TO STA.

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
326	13-00026-00-CH	KANE	107	48
		CONTRACT NO. 61E52		
	ILLINOIS FED. AID PROJECT			

MATCHLINE STA. 309+00
(SEE SHEET 50)

EX. ROW

ONLY

ONLY

308

307+66.3
80.8 LT

307+90.0
90.2 RT

SIGN (A)
LEFT ON
GREEN
ARROW
ONLY

R10-5
30"X36"
4 REQUIRED
(INCLUDED IN THE COST OF TEMPORARY
TRAFFIC SIGNAL INSTALLATION)

N

0 20' 40'

PR PERM. EASEMENT

EX. ROW

MATCHLINE STA. 103+50
(SEE SHEET 51)

WHEELER ROAD

104

105+00

106

307

BLISS ROAD

ONLY

107

108

306+38.8
85.3 LT

EX. ROW

EX. ROW

EX. ROW

EX. ROW

EX. ROW

PROPOSED TEMPORARY
ANTENNA LOCATION
INCLUDED IN TEMPORARY
TRAFFIC SIGNAL
INSTALLATION TO
MAINTAIN EXISTING
INTERCONNECT SYSTEM
DURING CONSTRUCTION.
SEE TEMPORARY
WIRELESS INTERCONNECT
COMPLETE SCHEMATIC
SHEET.

7' SIDEWALK EASEMENT
(EX. 5' SIDEWALK EASEMENT &
EX. 2' UTILITY EASEMENT)

IL ROUTE 47

306

ONLY

ONLY

306+47.7
110.4 RT

EXISTING INTERCONNECT TO
GALENA BLVD.
- SEE INTERCONNECT PLAN

EXISTING CONDUIT
TO REMAIN

MATCHLINE STA. 305+25
(SEE SHEET 50)

TS 868
EAGLE 50

TS SHT NO. 9

Plotted: 5/31/2018 4:02:07 PM By: jschmidt
File Name: H:\SDSKPro\SG1108-Micro\Dgn Final Eng\SG1108 TS PLAN SHEETS 205C.dgn

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Engineering Enterprises, Inc.
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52 Wheeler Road
Sugar Grove, Illinois 60554
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VILLAGE OF SUGAR GROVE
10 S. MUNICIPAL DRIVE
SUGAR GROVE, IL 60554

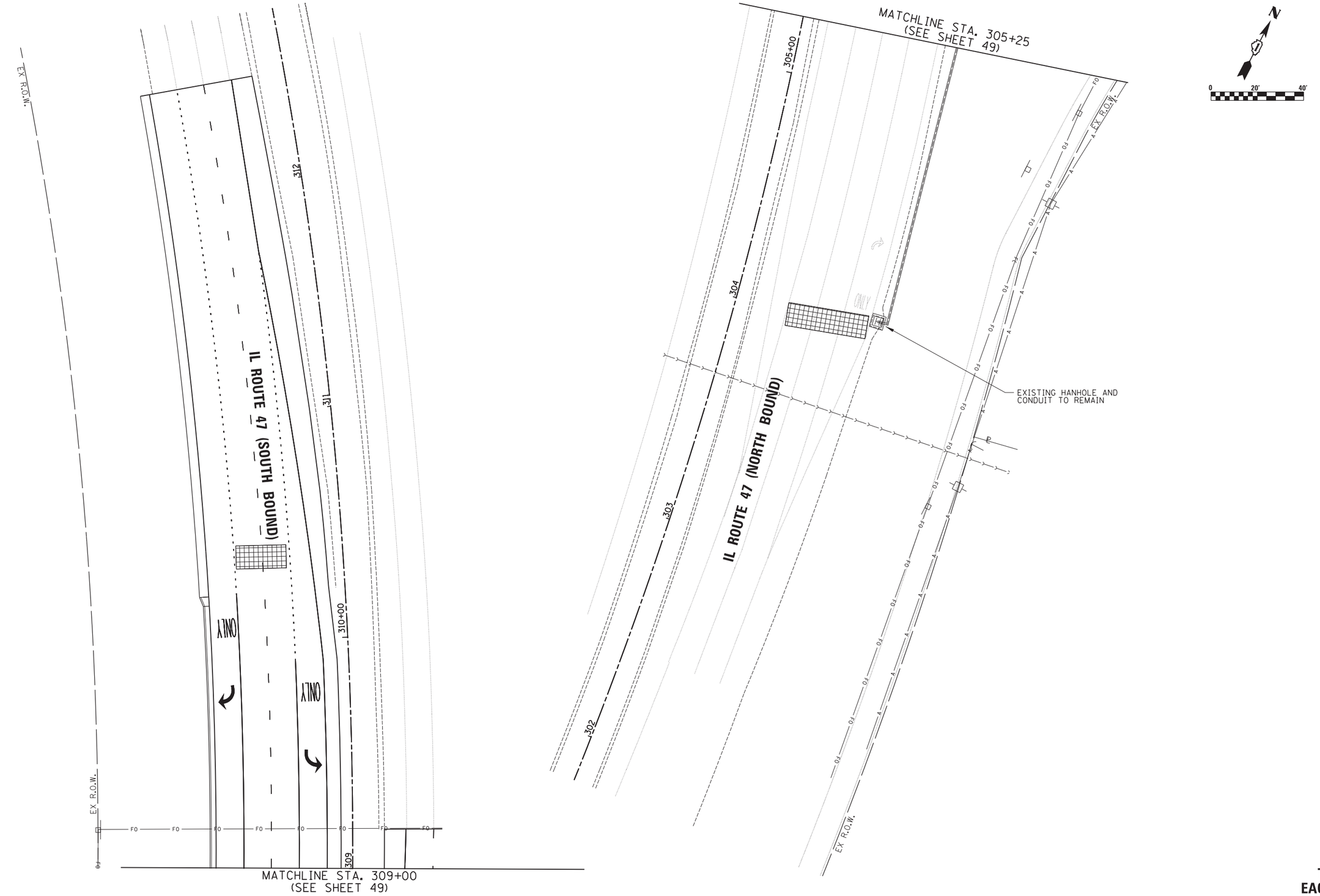
DESIGNED - CMF	REVISED -	
DRAWN - JPS	REVISED -	
CHECKED - TVW	REVISED -	
DATE - 08/11/2017	REVISED -	

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

TEMPORARY TRAFFIC SIGNAL INSTALLATION AND REMOVE EXISTING TRAFFIC SIGNAL EQUIPMENT PLAN – STAGE 2
BLISS ROAD / WHEELER ROAD AT ILLINOIS ROUTE 47

SCALE: 1"=20' | SHEET NO. 9 OF 16 SHEETS | STA. | TO STA.

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
326	13-00026-00-CH	KANE	107	49
		CONTRACT NO. 61E52		
	ILLINOIS FED. AID PROJECT			



TS SHT NO. 10

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Path: H:\SDSKProj\SG1108-Micro\Dgn Final Eng\SG1108 TS PLAN SHEETS 205C.dgn

TS 868
EAGLE 50

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VILLAGE OF SUGAR GROVE
10 S. MUNICIPAL DRIVE
SUGAR GROVE, IL 60554

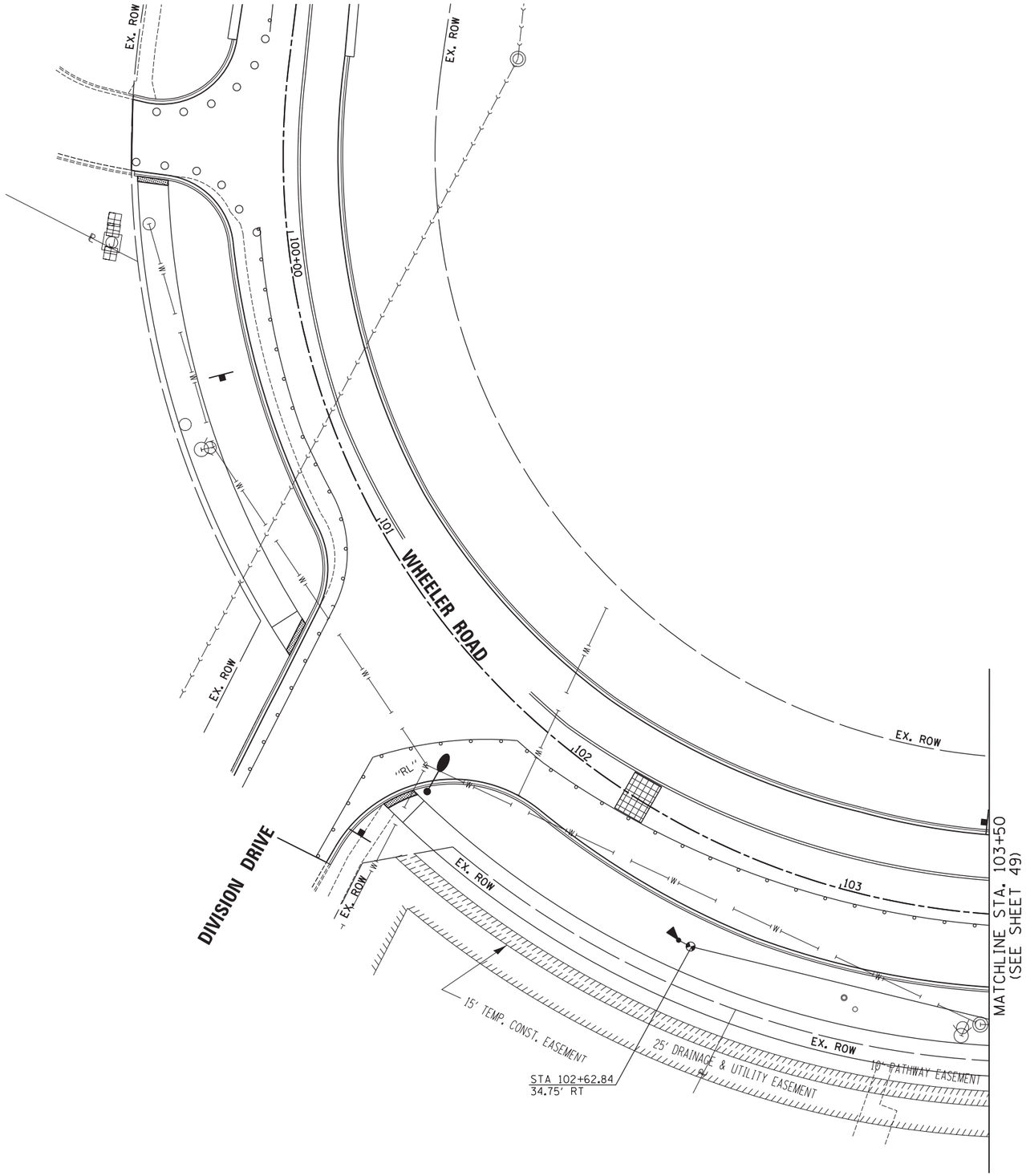
DESIGNED - CMF		REVISED -
DRAWN - JPS		REVISED -
CHECKED - TVW		REVISED -
DATE - 08/11/2017		REVISED -

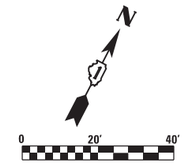
STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

TEMPORARY TRAFFIC SIGNAL INSTALLATION AND REMOVE EXISTING TRAFFIC SIGNAL EQUIPMENT PLAN – STAGE 2
BLISS ROAD /WHEELER ROAD AT ILLINOIS ROUTE 47

SCALE: 1"=20' | SHEET NO. 10 OF 16 SHEETS | STA. 302+00 TO STA. 312+46.50

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
326	13-00026-00-CH	KANE	107	50
		CONTRACT NO. 61E52		
		ILLINOIS FED. AID PROJECT		





TS 868
EAGLE 50

TS SHT NO. 11

Plot: eds 5/31/2018 4:02:08 PM By: jschmidt FILE NAME: H:\SDSKPro\SG1108-Micro\Dgn Final Eng\SG1108 TS PLAN SHEETS 205C.dgn

Path: H:\SDSKPro\SG1108-Micro\Dgn Final Eng\SG1108 TS PLAN SHEETS 205C.dgn

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VILLAGE OF SUGAR GROVE
10 S. MUNICIPAL DRIVE
SUGAR GROVE, IL 60554

DESIGNED - CMF		REVISED -
DRAWN - JPS		REVISED -
CHECKED - TVW		REVISED -
DATE - 08/11/2017		REVISED -

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

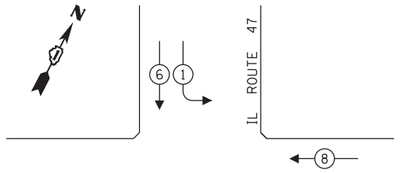
TEMPORARY TRAFFIC SIGNAL INSTALLATION AND REMOVE EXISTING
TRAFFIC SIGNAL EQUIPMENT PLAN – STAGE 2
BLISS ROAD / WHEELER ROAD AT ILLINOIS ROUTE 47

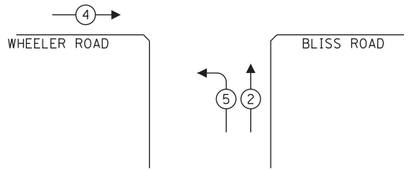
SCALE: 1"=20' | SHEET NO. 11 OF 16 SHEETS | STA. 109+25 TO STA. 112+00

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
326	13-00026-00-CH	KANE	107	51
		CONTRACT NO. 61E52		
	ILLINOIS FED. AID PROJECT			

TEMPORARY CONTROLLER SEQUENCE

N.T.S.





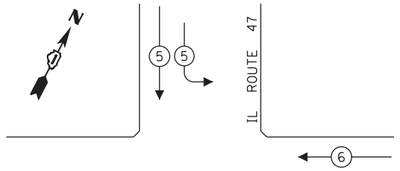
LEGEND:

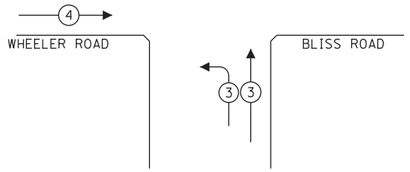
- PROTECTED PHASE
- PROTECTED/PERMITTED PHASE
- PEDESTRIAN PHASE
- OL OVERLAP

TEMPORARY PHASE DESIGNATION DIAGRAM
STAGE 2

TEMPORARY EMERGENCY VEHICLE PREEMPTION SEQUENCE
STAGE 2

N.T.S.





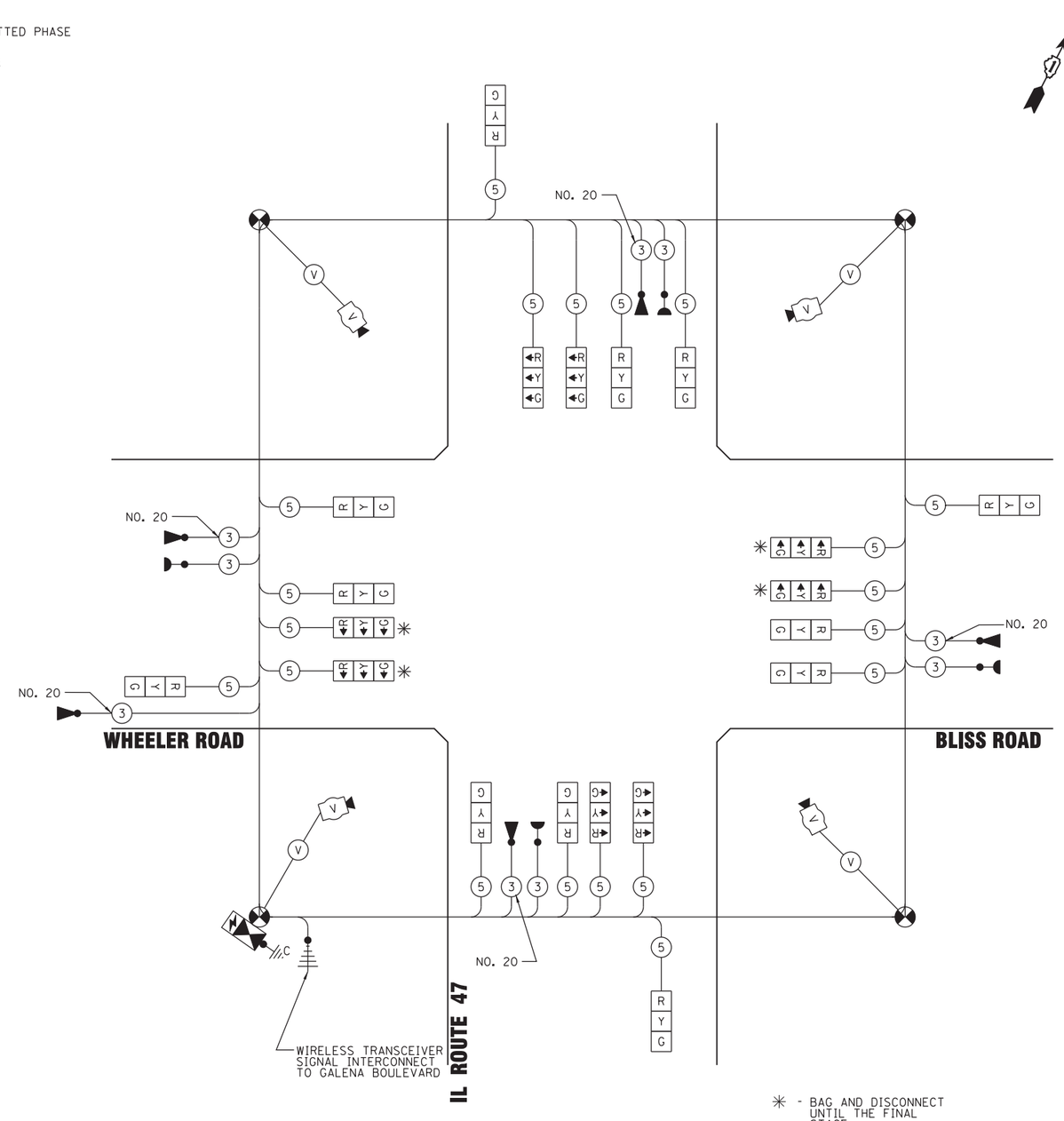
TRAFFIC SIGNAL ELECTRICAL SERVICE REQUIREMENTS

TYPE	NO. OF LAMPS	LED WATTAGE	% OPERATION	TOTAL WATTAGE
SIGNAL (RED)	12	11	50	66.0
(YELLOW)	12	20	25	60.0
(GREEN)	12	12	25	36.0
PERMISSIVE ARROW	12	10	10	12.0
PED. SIGNAL	_	20	100	_
CONTROLLER	1	100	100	100.0
UPS	1	25	100	25.0
VIDEO SYSTEM	1	150	100	150.0
BLANK-OUT SIGN	-	_	_	-
FLASHER	-	-	50	-
STREET NAME SIGN	-	_	_	-
LUMINAIRE	-	-	-	-
			TOTAL =	549

ENERGY COSTS TO:

VILLAGE OF SUGAR GROVE
10 MUNICIPAL DRIVE
SUGAR GROVE, IL 60554

ENERGY SUPPLY: CONTACT: TOM PERKINS
PHONE: 630-723-2127
COMPANY: COMMONWEALTH EDISON
ACCOUNT NUMBER:



CABLE PLAN
(NOT TO SCALE)

TS 868
EAGLE 50

TS SHT NO. 12
By: lschmidt
Plotted: 5/31/2018 4:02:08 PM
FILE NAME: H:\SDSKPro\SG1108-Micro\Dgn Final Eng\SG1108 TS PLAN SHEETS 205C.dgn

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CONSULTING ENGINEERS
52 Wheeler Road
Sugar Grove, Illinois 60554
630.466.6700 / www.eeiweb.com

VILLAGE OF SUGAR GROVE
10 S. MUNICIPAL DRIVE
SUGAR GROVE, IL 60554

DESIGNED - CMF		REVISED -
DRAWN - JPS		REVISED -
CHECKED - TVW		REVISED -
DATE - 08/11/2017		REVISED -

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

TEMPORARY CABLE PLAN, TEMPORARY PHASE DESIGNATION DIAGRAM, AND TEMPORARY TEMPORARY E.V.P. SEQUENCE – STAGE 2
BLISS ROAD /WHEELER ROAD AT ILLINOIS ROUTE 47

SCALE: N.T.S. | SHEET NO. 12 OF 16 SHEETS | STA. | TO STA.

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
326	13-00026-00-CH	KANE	107	52
		CONTRACT NO. 61E52		
	ILLINOIS FED. AID PROJECT			

Path: H:\SDSKPro\SG1108-Micro\Dgn Final Eng\SG1108 TS PLAN SHEETS 205C.dgn

MATCHLINE STA. 309+00
(SEE SHEET 54)

MATCHLINE STA. 103+50
(SEE SHEET 55)

MATCHLINE STA. 305+25
(SEE SHEET 54)

SIGN (A)

LEFT ON GREEN ARROW ONLY

R10-5
24"X30"
4 REQUIRED
(INCLUDED IN THE COST OF TEMPORARY TRAFFIC SIGNAL INSTALLATION)

N

0 20' 40'

WHEELER ROAD

BLISS ROAD

IL ROUTE 47

EX. ROW

PR PERM. EASEMENT

307+66.3
80.8 LT

307+90.0
90.2 RT

306+38.8
85.3 LT

306+47.7
110.4 RT

EXISTING INTERCONNECT TO GALENA BLVD.
- SEE INTERCONNECT PLAN

EXISTING CONDUIT TO REMAIN

PROPOSED TEMPORARY ANTENNA LOCATION INCLUDED IN TEMPORARY TRAFFIC SIGNAL INSTALLATION TO MAINTAIN EXISTING INTERCONNECT SYSTEM DURING CONSTRUCTION. SEE TEMPORARY WIRELESS INTERCONNECT COMPLETE SCHEMATIC SHEET.

EX. TEMP. EASEMENT FOR UTILITY FACILITIES

7' SIDEWALK EASEMENT

TS SHT NO. 13

TS 868
EAGLE 50

Engineering Enterprises, Inc. CONSULTING ENGINEERS 52 Wheeler Road Sugar Grove, Illinois 60554 630.466.6700 / www.eeiweb.com	VILLAGE OF SUGAR GROVE 10 S. MUNICIPAL DRIVE SUGAR GROVE, IL 60554	DESIGNED - CMF	REVISED -	STATE OF ILLINOIS DEPARTMENT OF TRANSPORTATION
		DRAWN - JPS	REVISED -	
		CHECKED - TVW	REVISED -	
		DATE - 08/11/2017	REVISED -	

TEMPORARY TRAFFIC SIGNAL INSTALLATION PLAN – FINAL STAGE
BLISS ROAD /WHEELER ROAD AT ILLINOIS ROUTE 47

SCALE: 1"=20' | SHEET NO. 13 OF 16 SHEETS | STA. | TO STA.

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
326	13-00026-00-CH	KANE	107	53
		CONTRACT NO. 61E52		
		ILLINOIS FED. AID PROJECT		

Plotted: 5/31/2018 4:02:09 PM By: jschmidt
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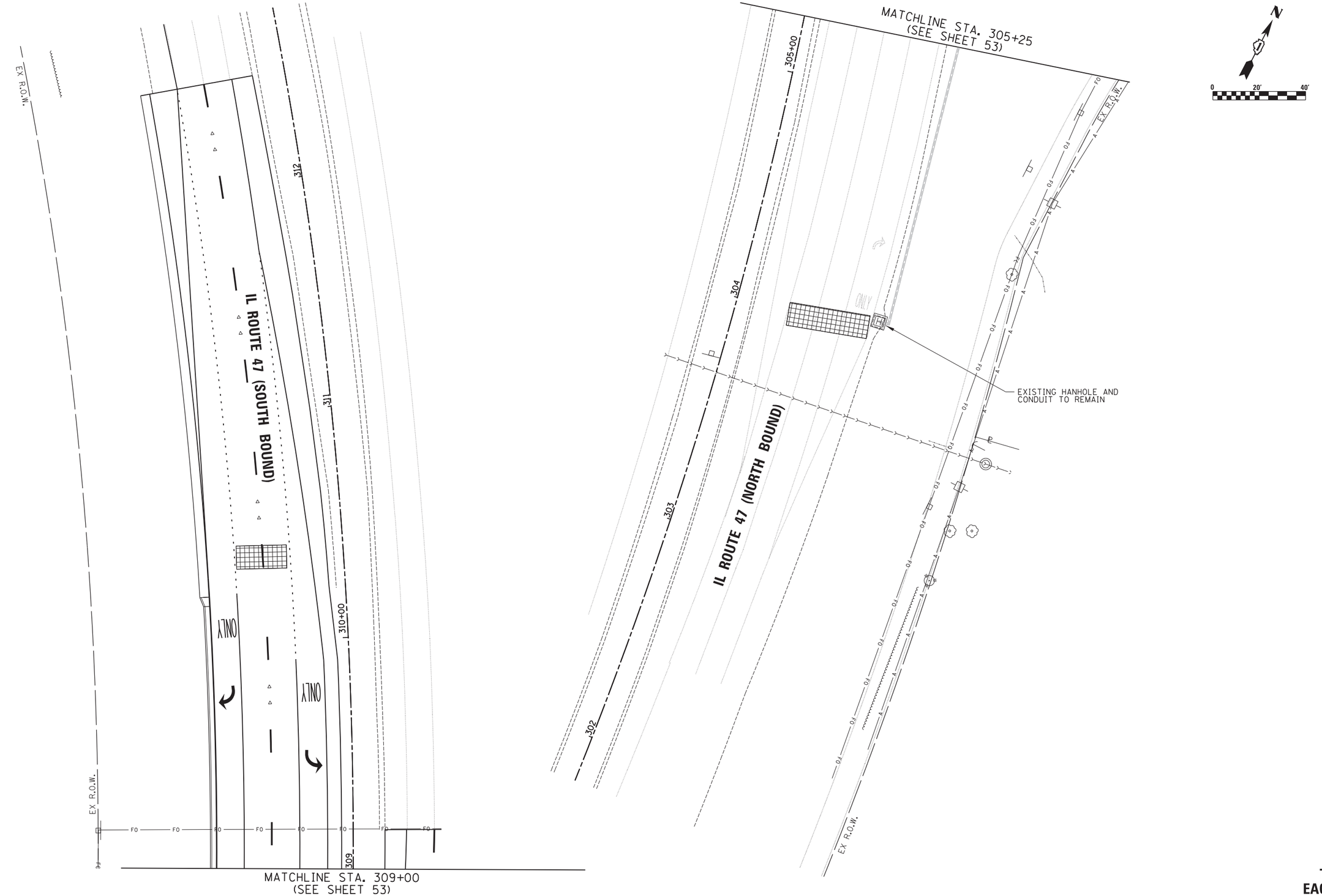

TS SHT NO. 14

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Path: H:\SDSKProj\SG1108-Micro\Dgn Final Eng\SG1108 TS PLAN SHEETS 205C.dgn

TS 868
EAGLE 50

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VILLAGE OF SUGAR GROVE
10 S. MUNICIPAL DRIVE
SUGAR GROVE, IL 60554

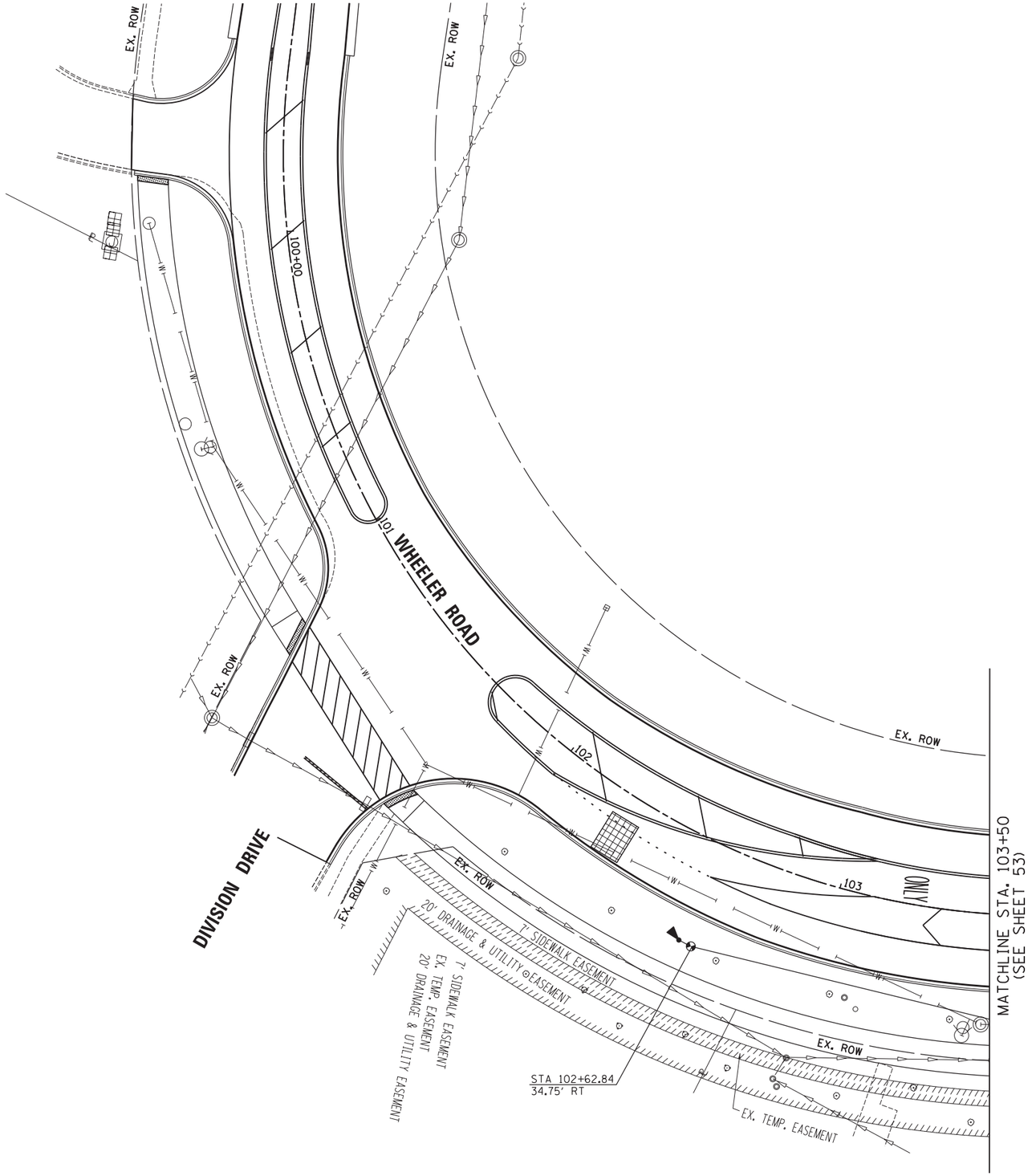
DESIGNED - CMF	REVISED -	
DRAWN - JPS	REVISED -	
CHECKED - TVW	REVISED -	
DATE - 08/11/2017	REVISED -	

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

TEMPORARY TRAFFIC SIGNAL INSTALLATION PLAN – FINAL STAGE
BLISS ROAD /WHEELER ROAD AT ILLINOIS ROUTE 47

SCALE: 1"=20' | SHEET NO. 14 OF 16 SHEETS | STA. 302+00 TO STA. 312+46.50

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
326	13-00026-00-CH	KANE	107	54
		CONTRACT NO. 61E52		
	ILLINOIS FED. AID PROJECT			



TS 868
EAGLE 50

TS SHT NO. 15

Plotted: 5/31/2018 4:02:09 PM By: jschmidt FILE NAME: H:\SDSKPro\SG1108-Micro\Dgn Final Eng\SG1108 TS PLAN SHEETS 205C.dgn

Path: H:\SDSKPro\SG1108-Micro\Dgn Final Eng\SG1108 TS PLAN SHEETS 205C.dgn

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Sugar Grove, Illinois 60554
630.466.6700 / www.eeiweb.com

VILLAGE OF SUGAR GROVE
10 S. MUNICIPAL DRIVE
SUGAR GROVE, IL 60554

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DRAWN - JPS	REVISED -	
CHECKED - TVW	REVISED -	
DATE - 08/11/2017	REVISED -	

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

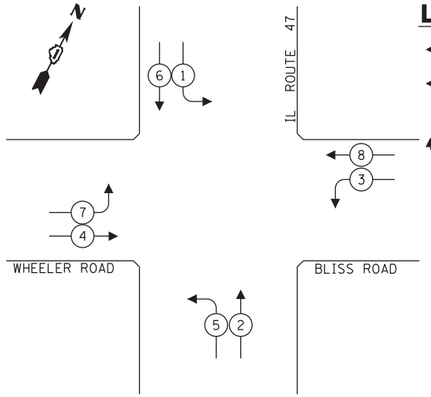
TEMPORARY TRAFFIC SIGNAL INSTALLATION PLAN – FINAL STAGE
BLISS ROAD /WHEELER ROAD AT ILLINOIS ROUTE 47

SCALE: 1"=20' | SHEET NO. 15 OF 16 SHEETS | STA. 109+25 TO STA. 112+00

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
326	13-00026-00-CH	KANE	107	55
		CONTRACT NO. 61E52		
	ILLINOIS FED. AID PROJECT			

TEMPORARY CONTROLLER SEQUENCE

N.T.S.



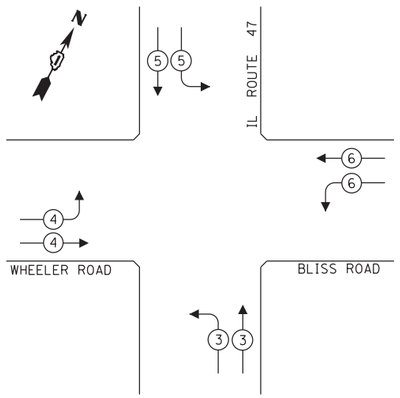
LEGEND:

- PROTECTED PHASE
- PROTECTED/PERMITTED PHASE
- PEDESTRIAN PHASE
- OL OVERLAP

TEMPORARY PHASE DESIGNATION DIAGRAM
FINAL STAGE

TEMPORARY EMERGENCY VEHICLE PREEMPTION SEQUENCE
FINAL STAGE

N.T.S.



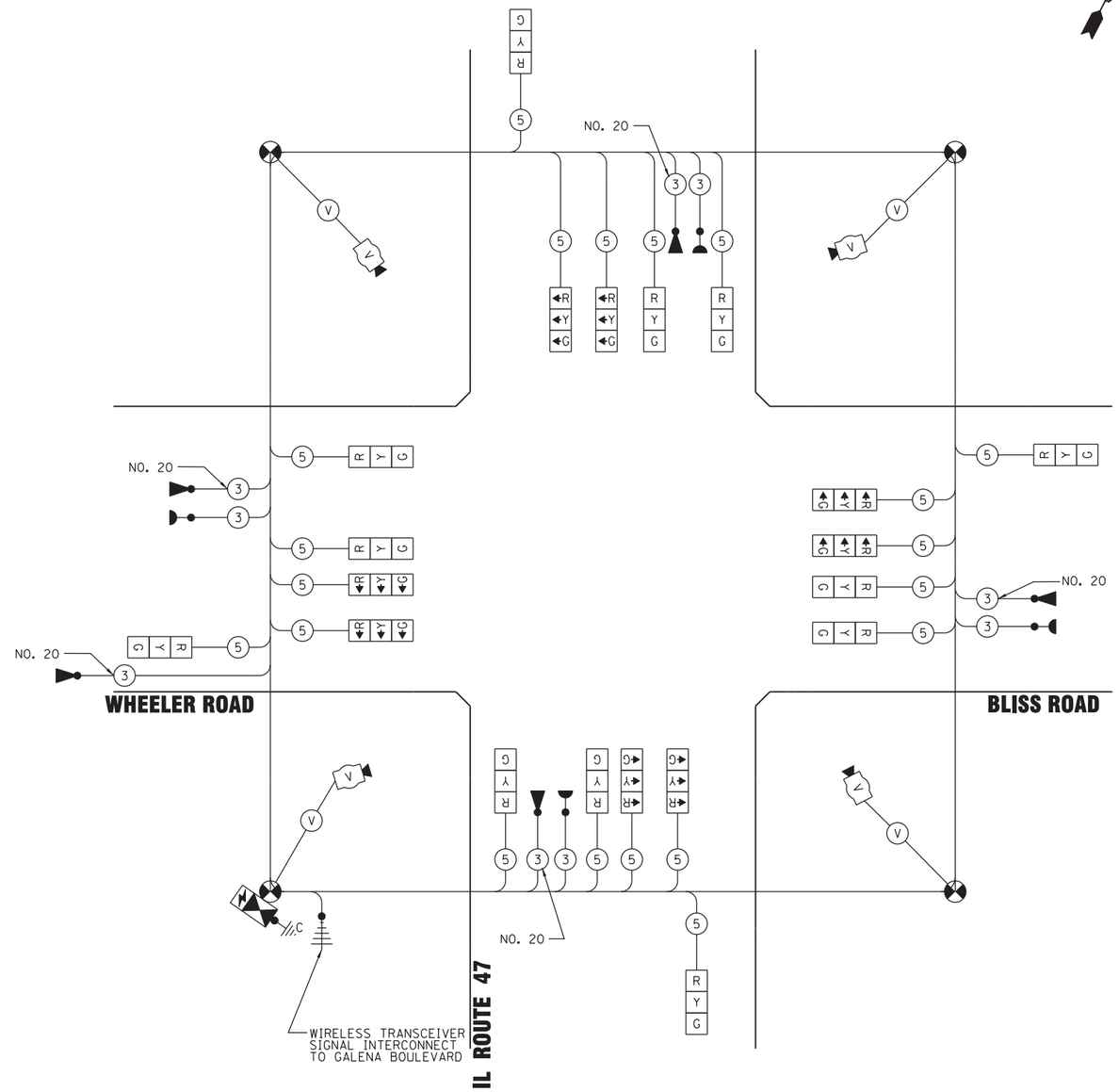
TRAFFIC SIGNAL
ELECTRICAL SERVICE REQUIREMENTS

TYPE	NO. OF LAMPS	LED WATTAGE	% OPERATION	TOTAL WATTAGE
SIGNAL (RED)	12	11	50	66.0
(YELLOW)	12	20	25	60.0
(GREEN)	12	12	25	36.0
PERMISSIVE ARROW	24	10	10	24.0
PED. SIGNAL	-	20	100	-
CONTROLLER	1	100	100	100.0
UPS	1	25	100	25.0
VIDEO SYSTEM	1	150	100	150.0
BLANK-OUT SIGN	-	-	-	-
FLASHER	-	-	50	-
STREET NAME SIGN	-	-	-	-
LUMINAIRE	-	-	-	-
			TOTAL =	461

ENERGY COSTS TO:

VILLAGE OF SUGAR GROVE
10 MUNICIPAL DRIVE
SUGAR GROVE, IL 60554

ENERGY SUPPLY: CONTACT: TOM PERKINS
PHONE: 630-723-2127
COMPANY: COMMONWEALTH EDISON
ACCOUNT NUMBER:



CABLE PLAN
(NOT TO SCALE)

TS 868
EAGLE 50

TS SHT NO. 16
By: jschmidt
4:02:10 PM
Plotted: 5/31/2018

FILE NAME: H:\SDSKPro\SG1108-Micro\Dgn Final Eng\SG1108 TS PLAN SHEETS 205C.dgn

Path: H:\SDSKPro\SG1108-Micro\Dgn Final Eng\SG1108 TS PLAN SHEETS 205C.dgn

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CONSULTING ENGINEERS
52 Wheeler Road
Sugar Grove, Illinois 60554
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VILLAGE OF SUGAR GROVE
10 S. MUNICIPAL DRIVE
SUGAR GROVE, IL 60554

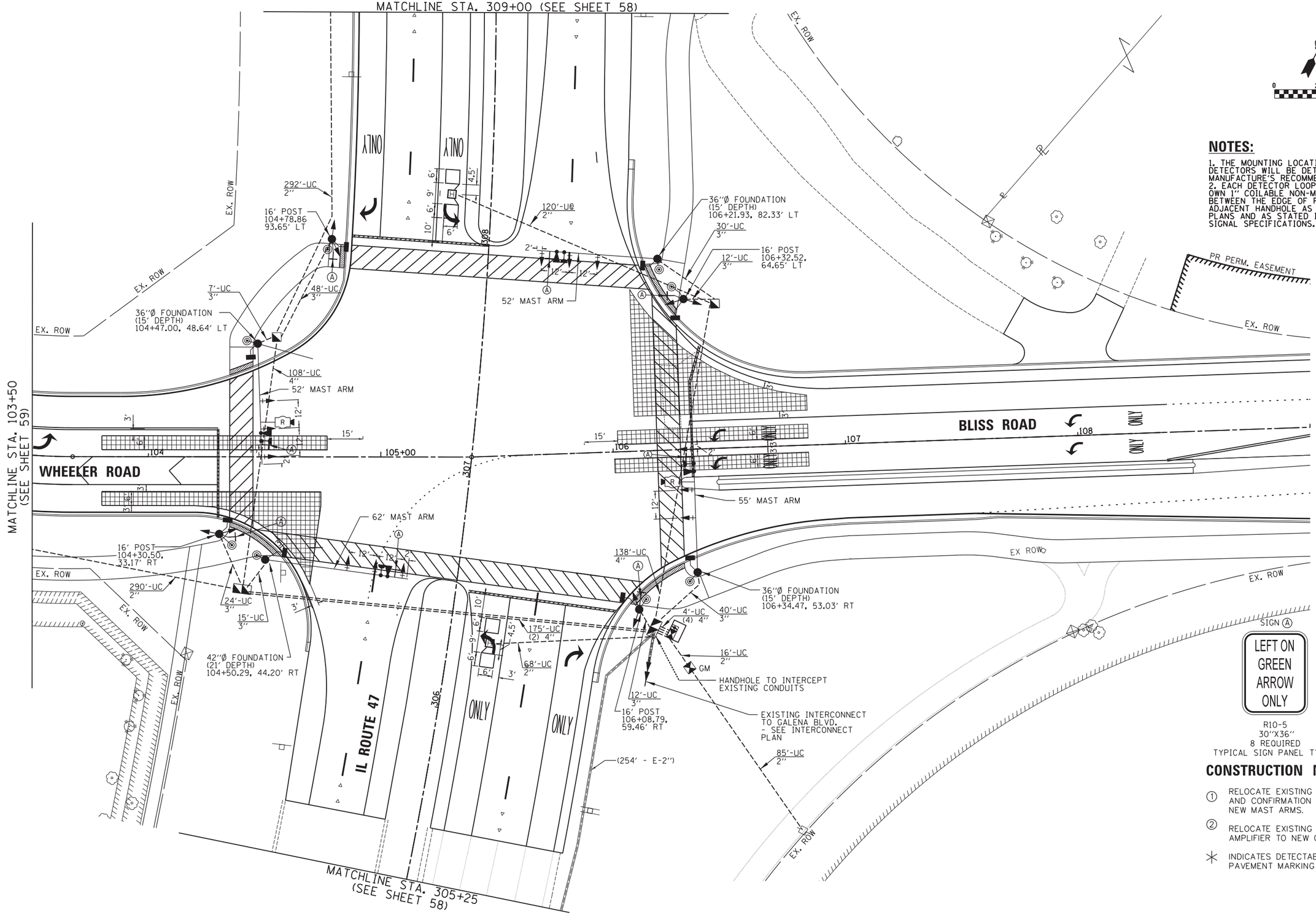
DESIGNED - CMF		REVISED -
DRAWN - JPS		REVISED -
CHECKED - TVW		REVISED -
DATE - 08/11/2017		REVISED -

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

TEMPORARY CABLE PLAN, TEMPORARY PHASE DESIGNATION DIAGRAM, AND TEMPORARY EMERGENCY VEHICLE PREEMPTION SEQUENCE - FINAL STAGE
BLISS ROAD / WHEELER ROAD AT ILLINOIS ROUTE 47

SCALE: N.T.S. | SHEET NO. 16 OF 16 SHEETS | STA. | TO STA.

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
326	13-00026-00-CH	KANE	107	56
		CONTRACT NO. 61E52		
	ILLINOIS FED. AID PROJECT			



NOTES:

1. THE MOUNTING LOCATIONS OF THE RADAR DETECTORS WILL BE DETERMINED PER THE MANUFACTURE'S RECOMMENDATIONS.
2. EACH DETECTOR LOOP SHALL HAVE ITS OWN 1'' COILABLE NON-METALLIC CONDUIT BETWEEN THE EDGE OF PAVEMENT AND THE ADJACENT HANDHOLE AS SHOWN ON THE PLANS AND AS STATED IN THE TRAFFIC SIGNAL SPECIFICATIONS.

CONSTRUCTION NOTES:

① RELOCATE EXISTING LIGHT DETECTORS AND CONFIRMATION BEACONS TO THE NEW MAST ARMS.

② RELOCATE EXISTING LIGHT DETECTOR AMPLIFIER TO NEW CONTROL CABINET.

✳ INDICATES DETECTABLE WARNING SEE PAVEMENT MARKING PLAN.

TS 868
EAGLE 50

TS SHT NO. 17

Plotted: 2/13/2019 3:24:16 PM By: jschmidt

FILE NAME: H:\SDSKPro\SG1108-Micro\Dgn Final Eng\SG1108 TS PLAN SHEETS 205C.dgn

Path: H:\SDSKPro\SG1108-Micro\Dgn Final Eng\SG1108 TS PLAN SHEETS 205C.dgn

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Sugar Grove, Illinois 60554
630.466.6700 / www.eeiweb.com

VILLAGE OF SUGAR GROVE
10 S. MUNICIPAL DRIVE
SUGAR GROVE, IL 60554

DESIGNED - CMF		REVISED -
DRAWN - JPS		REVISED -
CHECKED - TVW		REVISED -
DATE - 08/11/2017		REVISED -

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

TRAFFIC SIGNAL MODERNIZATION PLAN
BLISS ROAD /WHEELER ROAD AT ILLINOIS ROUTE 47

SCALE: 1''=20' | SHEET NO. 1 OF 5 SHEETS | STA. 305+00 TO STA. 312+46.50

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
326	13-00026-00-CH	KANE	107	57
		CONTRACT NO. 61E52		
	ILLINOIS FED. AID PROJECT			

NOTES:

1. THE TRAFFIC SIGNAL CONTROLLER EQUIPMENT FOR THIS PROJECT SHALL BE "EAGLE" TO MATCH THE EXISTING ADJACENT SYSTEM.
2. EACH DETECTOR LOOP SHALL HAVE ITS OWN 1" COILABLE NON-METALLIC CONDUIT BETWEEN THE EDGE OF PAVEMENT AND THE ADJACENT HANDHOLE AS SHOWN ON THE PLANS AND AS STATED IN THE TRAFFIC SIGNAL SPECIFICATIONS.

TS 868
EAGLE 50

TS SHT NO. 18

Plotted: 5/31/2018 4:02:11 PM By: jschmidt FILE NAME: H:\SDSKProj\SG1108-Micro\Dgn Final Eng\SG1108 TS PLAN SHEETS 205C.dgn

Path: H:\SDSKProj\SG1108-Micro\Dgn Final Eng\SG1108 TS PLAN SHEETS 205C.dgn

Engineering Enterprises, Inc.
CONSULTING ENGINEERS
52 Wheeler Road
Sugar Grove, Illinois 60554
630.466.6700 / www.eeiweb.com

VILLAGE OF SUGAR GROVE
10 S. MUNICIPAL DRIVE
SUGAR GROVE, IL 60554

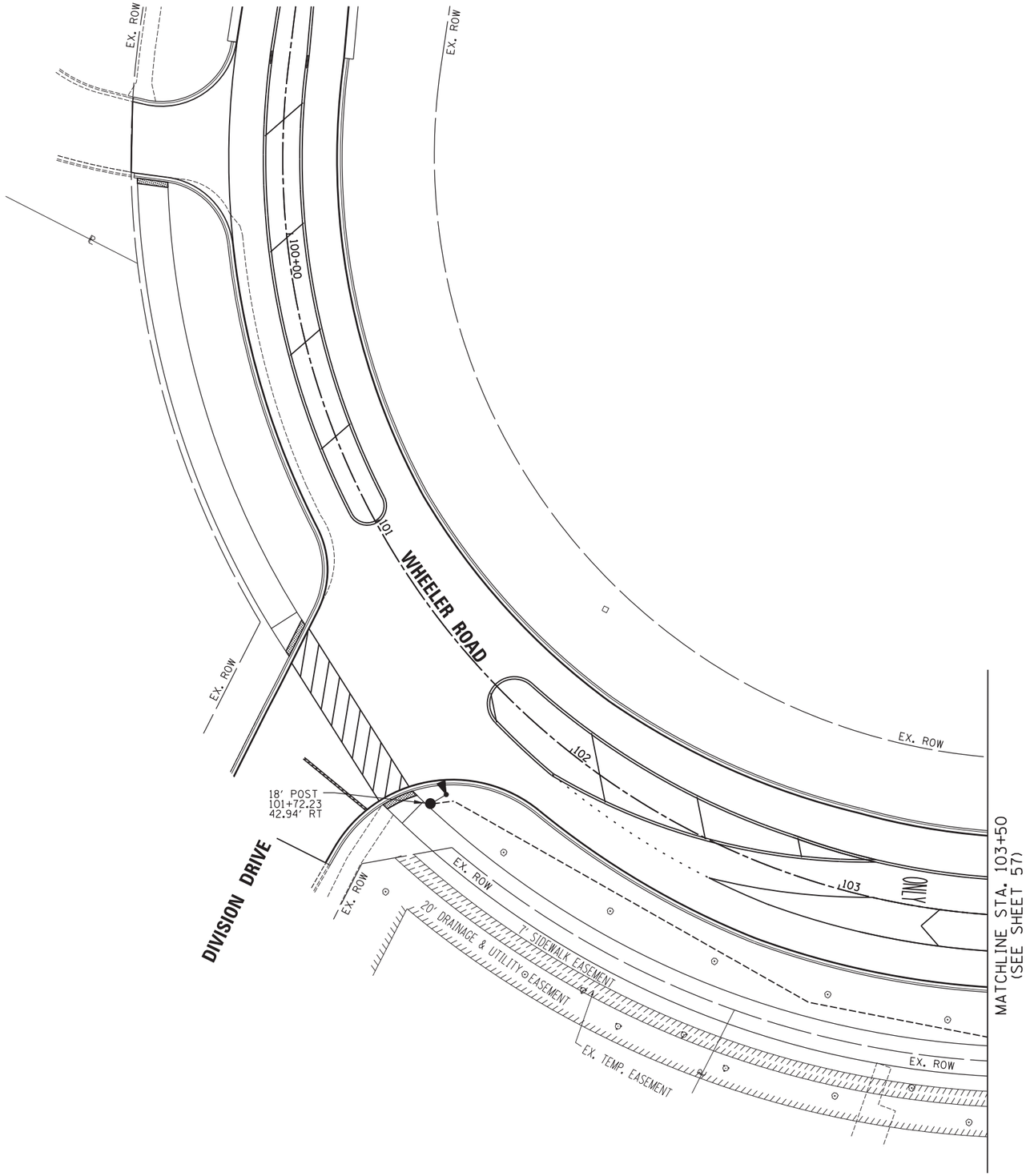
DESIGNED	- CMF	REVISED	-
DRAWN	- JPS	REVISED	-
CHECKED	- TVW	REVISED	-
DATE	- 08/11/2017	REVISED	-

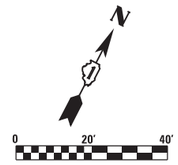
STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

TRAFFIC SIGNAL MODERNIZATION PLAN
BLISS ROAD /WHEELER ROAD AT ILLINOIS ROUTE 47

SCALE: 1''=20' | SHEET NO. 2 OF 5 SHEETS | STA. 302+00 TO STA. 312+46.50

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
326	13-00026-00-CH	KANE	107	58
		CONTRACT NO. 61E52		
	ILLINOIS FED. AID PROJECT			





NOTES:

THE TRAFFIC SIGNAL CONTROLLER EQUIPMENT FOR THIS PROJECT SHALL BE "EAGLE" TO MATCH THE EXISTING ADJACENT SYSTEM.

TS 868
EAGLE 50

TS SHT NO. 19

Plotted: 5/31/2018 4:02:11 PM By: jschmidt File Name: H:\SDSKProj\SG1108-Micro\Dgn Final Eng\SG1108 TS PLAN SHEETS 205C.dgn

Path: H:\SDSKProj\SG1108-Micro\Dgn Final Eng\SG1108 TS PLAN SHEETS 205C.dgn

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CONSULTING ENGINEERS
52 Wheeler Road
Sugar Grove, Illinois 60554
630.466.6700 / www.eeiweb.com

VILLAGE OF SUGAR GROVE
10 S. MUNICIPAL DRIVE
SUGAR GROVE, IL 60554

DESIGNED - CMF		REVISED -
DRAWN - JPS		REVISED -
CHECKED - TVW		REVISED -
DATE - 08/11/2017		REVISED -

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

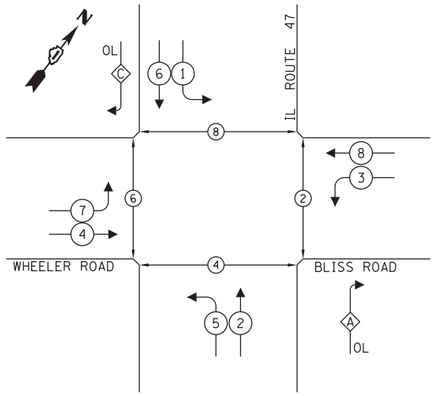
TRAFFIC SIGNAL MODERNIZATION PLAN
BLISS ROAD /WHEELER ROAD AT ILLINOIS ROUTE 47

SCALE: 1"=20' | SHEET NO. 3 OF 5 SHEETS | STA. | TO STA. 112+00

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
326	13-00026-00-CH	KANE	107	59
		CONTRACT NO. 61E52		
	ILLINOIS FED. AID PROJECT			

CONTROLLER SEQUENCE

N.T.S.



LEGEND:

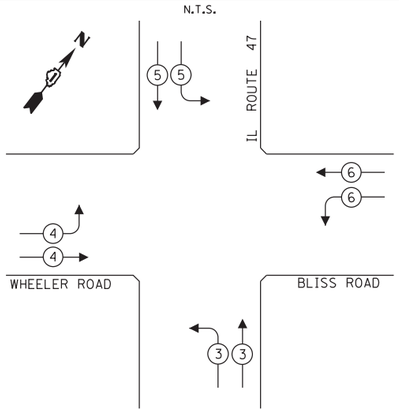
- PROTECTED PHASE
- PROTECTED/PERMITTED PHASE
- PEDESTRIAN PHASE
- OL — OVERLAP

RIGHT TURN OVERLAP PHASE DESIGNATION:

OVERLAP LETTER		PERMISSION PHASE		PROTECTED PHASE
A	=	2	+	3
C	=	6	+	7

EMERGENCY VEHICLE PREEMPTION SEQUENCE

N.T.S.



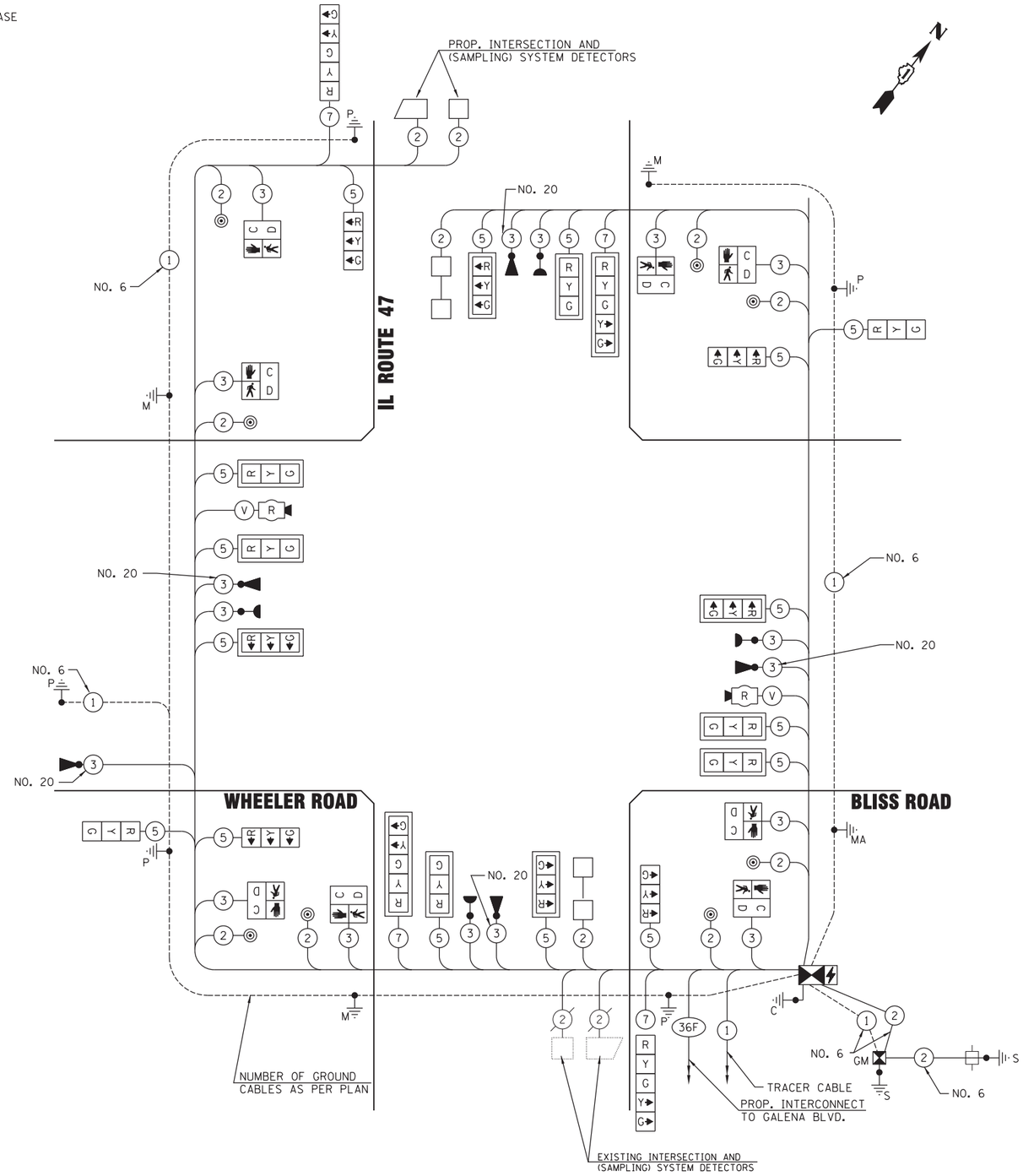
TRAFFIC SIGNAL ELECTRICAL SERVICE REQUIREMENTS

TYPE	NO. OF LAMPS	LED WATTAGE	% OPERATION	TOTAL WATTAGE
SIGNAL (RED)	12	11	50	66.0
(YELLOW)	12	20	25	60.0
(GREEN)	12	12	25	36.0
PERMISSIVE ARROW	32	10	10	32.0
PED. SIGNAL	8	20	100	160.0
CONTROLLER	1	100	100	100.0
UPS	1	25	100	25.0
VIDEO SYSTEM	1	150	100	150.0
BLANK-OUT SIGN	-	-	-	-
FLASHER	-	-	50	-
STREET NAME SIGN	-	-	-	-
LUMINAIRE	-	-	-	-
			TOTAL =	629.0

ENERGY COSTS TO:

VILLAGE OF SUGAR GROVE
10 MUNICIPAL DRIVE
SUGAR GROVE, IL 60554

ENERGY SUPPLY: CONTACT: TOM PERKINS
PHONE: 630-723-2127
COMPANY: COMMONWEALTH EDISON
ACCOUNT NUMBER:



TS 868
EAGLE 50

TS SHT NO. 20
By: lschmidt
4/02/11 PM
Plotted: 5/31/2018
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VILLAGE OF SUGAR GROVE
10 S. MUNICIPAL DRIVE
SUGAR GROVE, IL 60554

DESIGNED - CMF		REVISED -
DRAWN - JPS		REVISED -
CHECKED - TVW		REVISED -
DATE - 08/11/2017		REVISED -

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

CABLE PLAN, PHASE DEIGNATION DIAGRAM, AND EMERGENCY VEHICLE PREEMTION SEQUENCE
BLISS ROAD /WHEELER ROAD AT ILLINOIS ROUTE 47

SCALE: N.T.S. | SHEET NO. 4 OF 5 SHEETS | STA. | TO STA.

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
326	13-00026-00-CH	KANE	107	60
		CONTRACT NO. 61E52		
	ILLINOIS FED. AID PROJECT			

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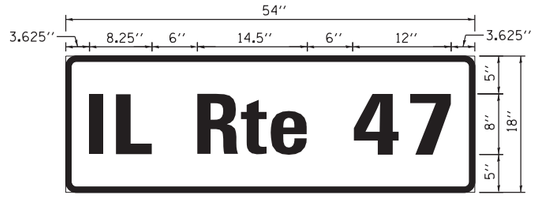
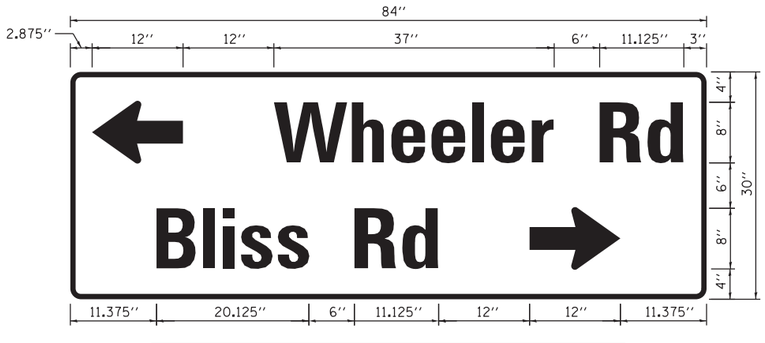
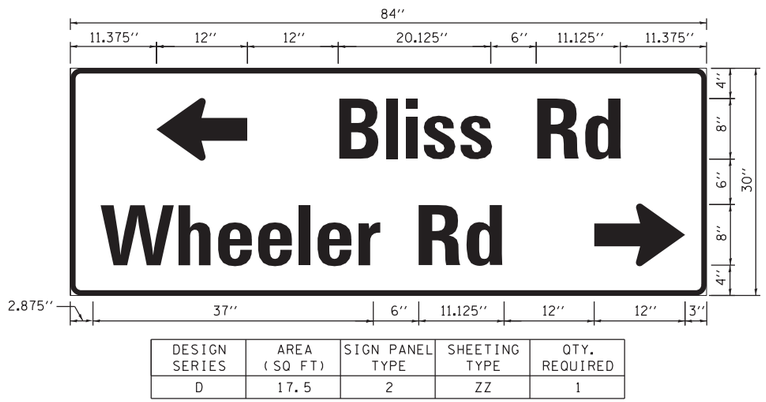


DESIGN SERIES	AREA (SQ FT)	SIGN PANEL TYPE	SHEETING TYPE	QTY. REQUIRED
D	6.75	1	ZZ	2



DESIGN SERIES	AREA (SQ FT)	SIGN PANEL TYPE	SHEETING TYPE	QTY. REQUIRED
D	17.5	2	ZZ	1



DESIGN SERIES	AREA (SQ FT)	SIGN PANEL TYPE	SHEETING TYPE	QTY. REQUIRED
D	17.5	2	ZZ	1

MAST ARM MOUNTED STREET NAME SIGNS

SCHEDULE OF QUANTITIES

ITEM DESCRIPTION	UNITS	TOTAL QTY.
SIGN PANEL - TYPE 1	SQ FT	74
SIGN PANEL - TYPE 2	SQ FT	35
UNDERGROUND CONDUIT, GALVANIZED STEEL, 2" DIA.	FOOT	871
UNDERGROUND CONDUIT, GALVANIZED STEEL, 3" DIA.	FOOT	188
UNDERGROUND CONDUIT, GALVANIZED STEEL, 4" DIA.	FOOT	612
HANDHOLE	EACH	2
HEAVY-DUTY HANDHOLE	EACH	3
DOUBLE HANDHOLE	EACH	2
ELECTRIC CABLE IN CONDUIT, SIGNAL NO. 14 2C	FOOT	1692
ELECTRIC CABLE IN CONDUIT, SIGNAL NO. 14 3C	FOOT	2738
ELECTRIC CABLE IN CONDUIT, SIGNAL NO. 14 5C	FOOT	3982
ELECTRIC CABLE IN CONDUIT, SIGNAL NO. 14 7C	FOOT	959
ELECTRIC CABLE IN CONDUIT, LEAD-IN, NO. 14 1 PAIR	FOOT	1595
ELECTRIC CABLE IN CONDUIT, SERVICE, NO. 6 2 C	FOOT	122
ELECTRIC CABLE IN CONDUIT, EQUIPMENT GROUNDING CONDUCTOR, NO. 6 1C	FOOT	1300
TRAFFIC SIGNAL POST, GALVANIZED STEEL 16 FT.	EACH	4
TRAFFIC SIGNAL POST, GALVANIZED STEEL 18 FT.	EACH	1
STEEL MAST ARM ASSEMBLY AND POLE, 52 FT.	EACH	2
STEEL MAST ARM ASSEMBLY AND POLE, 55 FT.	EACH	1
STEEL MAST ARM ASSEMBLY AND POLE, 62 FT.	EACH	1
CONCRETE FOUNDATION, TYPE A	FOOT	24
CONCRETE FOUNDATION, TYPE C	FOOT	4
CONCRETE FOUNDATION, TYPE E 36-INCH DIAMETER	FOOT	45
CONCRETE FOUNDATION, TYPE E 42-INCH DIAMETER	FOOT	21
SIGNAL HEAD, LED, 1-FACE, 3-SECTION, MAST-ARM MOUNTED	EACH	10
SIGNAL HEAD, LED, 1-FACE, 3-SECTION, BRACKET MOUNTED	EACH	6
SIGNAL HEAD, LED, 1-FACE, 5-SECTION, BRACKET MOUNTED	EACH	2
SIGNAL HEAD, LED, 1-FACE, 5-SECTION, MAST-ARM MOUNTED	EACH	2
PEDESTRIAN SIGNAL HEAD, LED, 1-FACE, BRACKET MOUNTED WITH COUNTDOWN TIMER	EACH	8
TRAFFIC SIGNAL BACKPLATE, LOUVERED, FORMED PLASTIC	EACH	12
INDUCTIVE LOOP DETECTOR	EACH	6
DETECTOR LOOP, TYPE I	FOOT	222
PEDESTRIAN PUSH-BUTTON	EACH	8
TEMPORARY TRAFFIC SIGNAL INSTALLATION	EACH	1
LIGHT DETECTOR	EACH	5
LIGHT DETECTOR AMPLIFIER	EACH	2
REMOVE EXISTING TRAFFIC SIGNAL EQUIPMENT	EACH	1
REMOVE EXISTING HANDHOLE	EACH	9
REMOVE EXISTING DOUBLE HANDHOLE	EACH	1
REMOVE EXISTING CONCRETE FOUNDATION	EACH	10
EMERGENCY VEHICLE PRIORITY SYSTEM LINE SENSOR CABLE, NO. 20 3/C	FOOT	1512
FULL-ACTUATED CONTROLLER AND TYPE SUPER P CABINET (SPECIAL)	EACH	1
SERVICE INSTALLATION, GROUND MOUNTED, METERED	EACH	1
RADAR VEHICLE DETECTION SYSTEM, SINGLE APPROACH, STOP BAR	EACH	2
UNINTERRUPTABLE POWER SUPPLY, SPECIAL	EACH	1
TEMPORARY TRAFFIC SIGNAL TIMING	EACH	1

TS 868
EAGLE 50

TS SHT NO. 21

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52 Wheeler Road
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630.466.6700 / www.eeiweb.com

VILLAGE OF SUGAR GROVE
10 S. MUNICIPAL DRIVE
SUGAR GROVE, IL 60554

DESIGNED - CMF	REVISED -	
DRAWN - JPS	REVISED -	
CHECKED - TVW	REVISED -	
DATE - 08/11/2017	REVISED -	

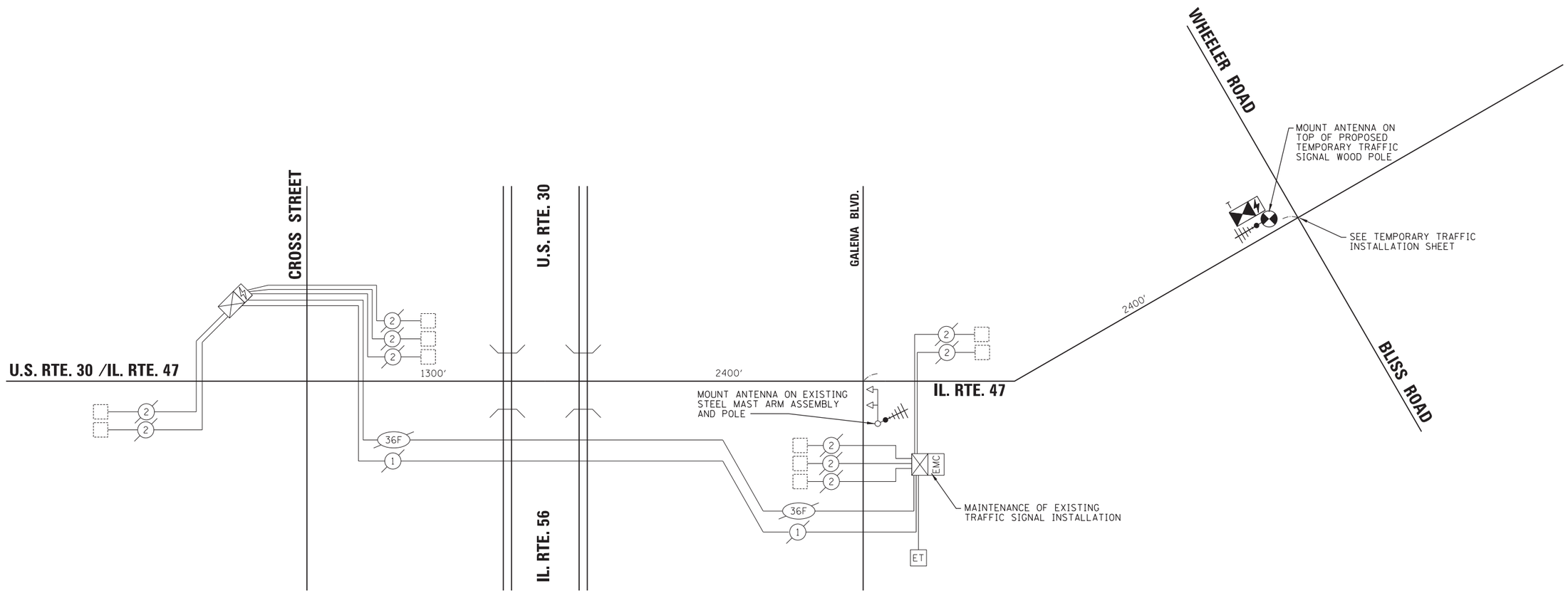
STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

BLISS ROAD / WHEELER ROAD AT ILLINOIS ROUTE 47
SCHEDULE OF QUANTITIES, CABLE PLAN, PHASE DESIGNATION DIAGRAM, AND EMERGENCY VEHICLE PREEMPTION SEQUENCE

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

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
326	13-00026-00-CH	KANE	107	61
		CONTRACT NO. 61E52		
	ILLINOIS FED. AID PROJECT			

N.T.S.



TS SHT NO. 22

Plotted: 5/31/2018 4:02:12 PM By: jschmidt FILE NAME: H:\SDSKProj\SG1108-Micro\Dgn Final Eng\SG1108 TS PLAN SHEETS 205C.dgn

Path: H:\SDSKProj\SG1108-Micro\Dgn Final Eng\SG1108 TS PLAN SHEETS 205C.dgn

EAGLE 50

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Sugar Grove, Illinois 60554
630.466.6700 / www.eeiweb.com

VILLAGE OF SUGAR GROVE
10 S. MUNICIPAL DRIVE
SUGAR GROVE, IL 60554

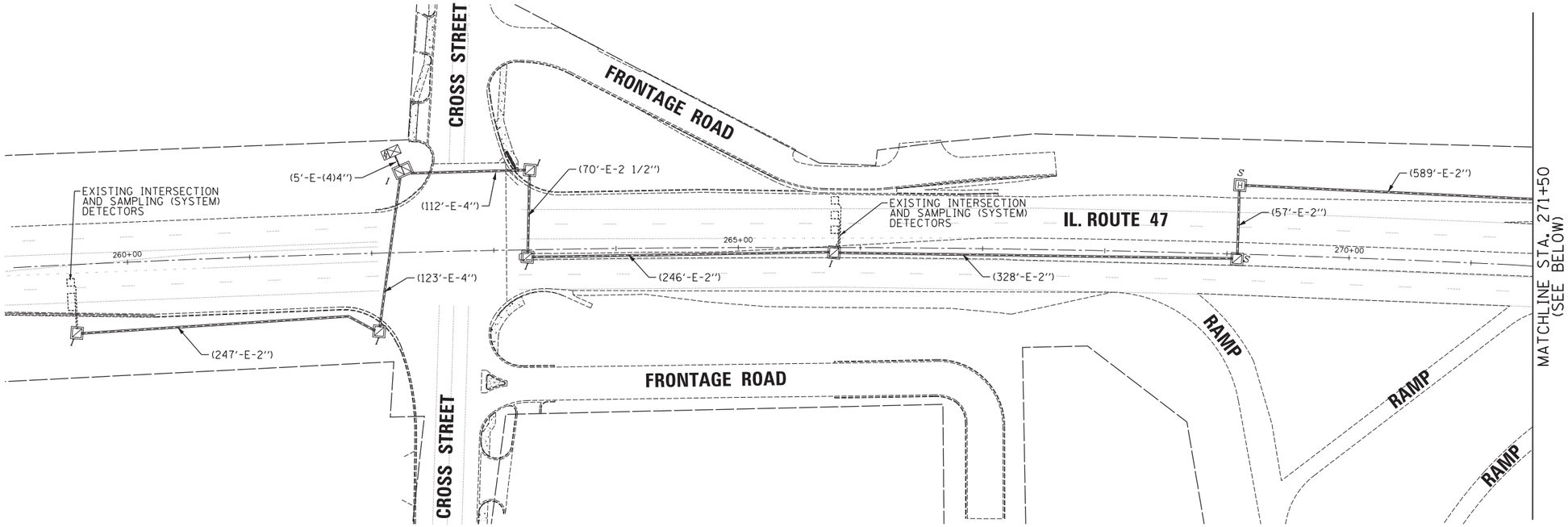
DESIGNED - CMF	REVISED -	
DRAWN - JPS	REVISED -	
CHECKED - TVW	REVISED -	
DATE - 08/11/2017	REVISED -	

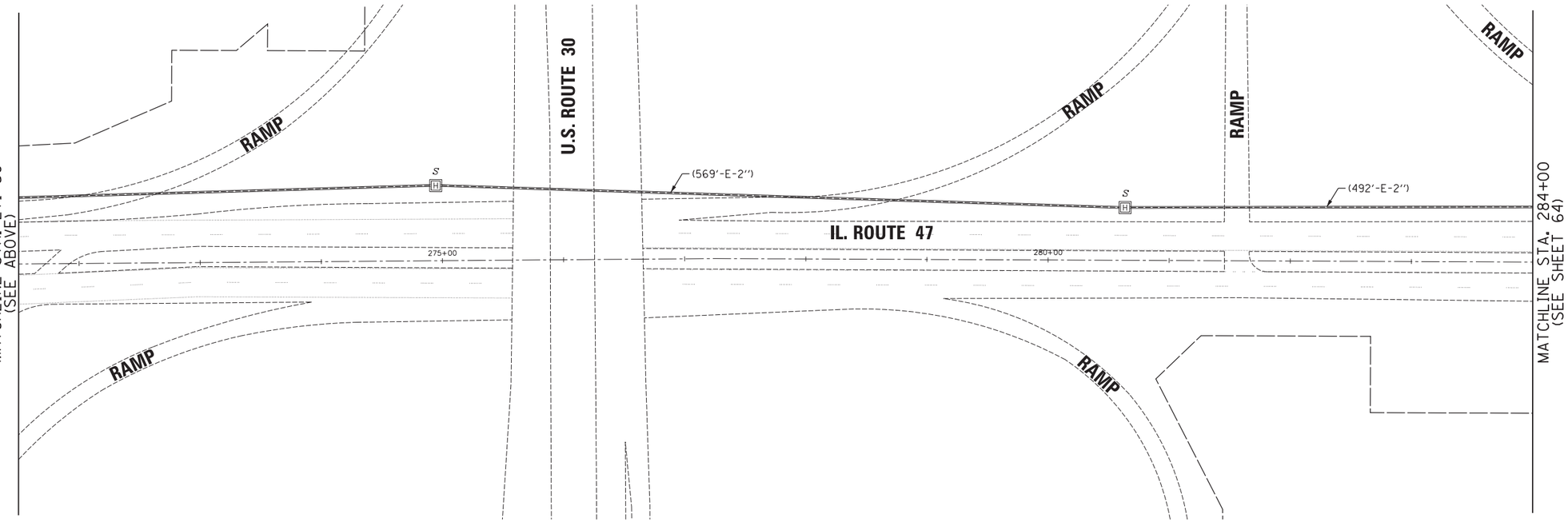
STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

BLISS ROAD / WHEELER ROAD AT ILLINOIS ROUTE 47
TEMPORARY WIRELESS INTERCONNECT, COMPLETE SCHEMATIC

SCALE: N.T.S. | SHEET NO. 1 OF 5 SHEETS | STA. | TO STA.

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
326	13-00026-00-CH	KANE	107	62
		CONTRACT NO. 61E52		
	ILLINOIS FED. AID PROJECT			





NOTES:

THE TRAFFIC SIGNAL CONTROLLER EQUIPMENT FOR THIS PROJECT SHALL BE "EAGLE" TO MATCH THE EXISTING ADJACENT SYSTEM.

EAGLE 50

TS SHT NO. 23

Plotted: 6/1/2018 9:16:29 AM By: jschmidt

FILE NAME: H:\SDSKProj\SG1108-Micro\Dgn Final Eng\SG1108 INTERCONNECT PLAN SHEETS 505C.dgn

Path: H:\SDSKProj\SG1108-Micro\Dgn Final Eng\SG1108 INTERCONNECT PLAN SHEETS 505C.dgn

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VILLAGE OF SUGAR GROVE
10 S. MUNICIPAL DRIVE
SUGAR GROVE, IL 60554

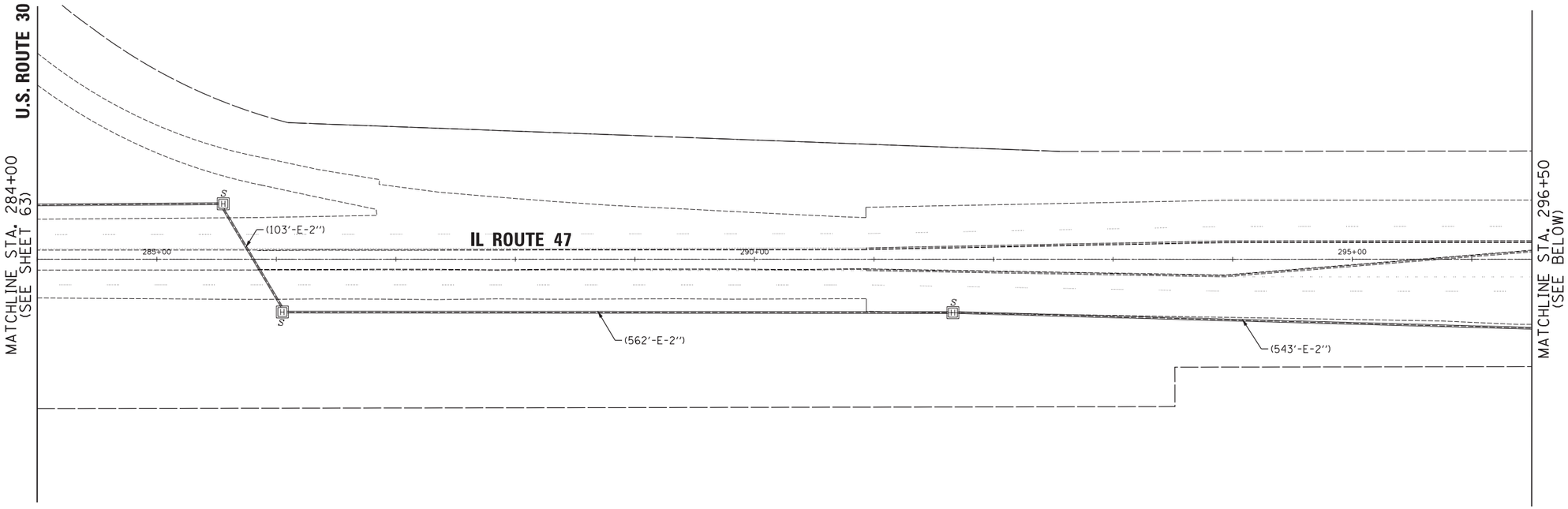
DESIGNED - CMF	REVISED -	
DRAWN - JPS	REVISED -	
CHECKED - TVW	REVISED -	
DATE - 08/11/2017	REVISED -	

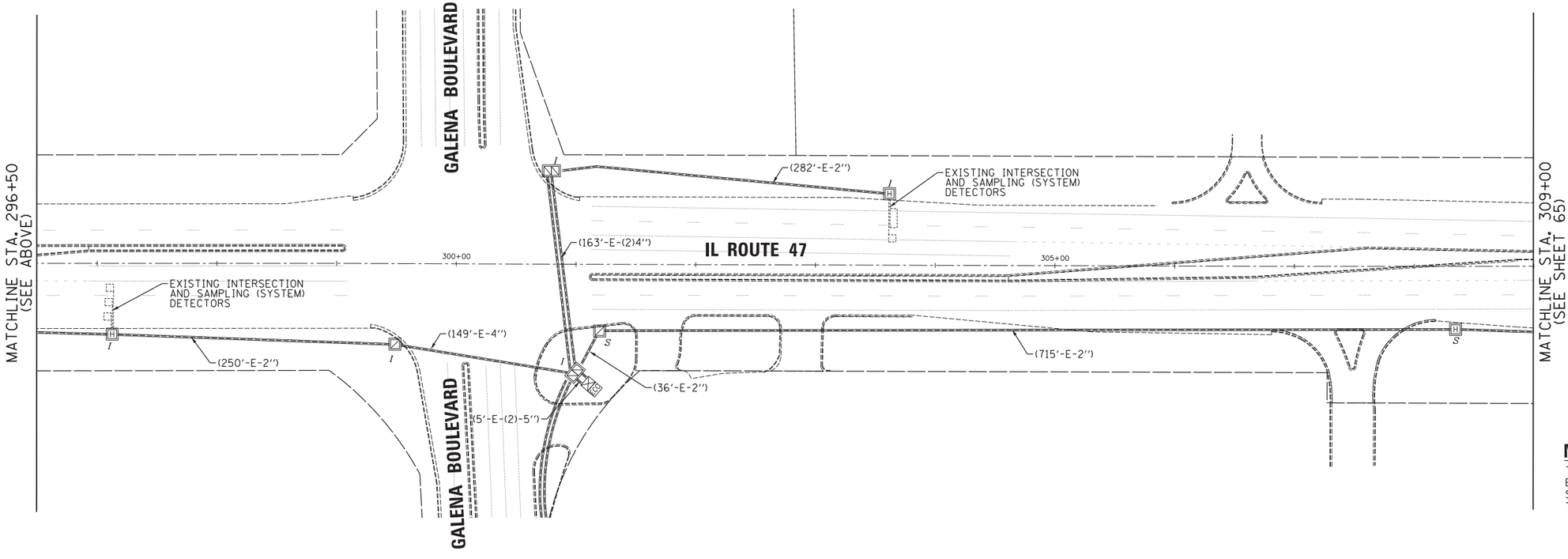
STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

INTERCONNECT PLAN
BLISS ROAD / WHEELER ROAD AT ILLINOIS ROUTE 47

SCALE: 1"=50' | SHEET NO. 2 OF 5 SHEETS | STA. 300+00 TO STA. 312+00

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
326	13-00026-00-CH	KANE	107	63
		CONTRACT NO. 61E52		
	ILLINOIS FED. AID PROJECT			





NOTES:

THE TRAFFIC SIGNAL CONTROLLER EQUIPMENT FOR THIS PROJECT SHALL BE "EAGLE" TO MATCH THE EXISTING ADJACENT SYSTEM.

EAGLE 50

TS SHT NO. 24

Plotted: 6/1/2018 9:16:29 AM By: jschmidt FILE NAME: H:\SDSKPro\SG1108-Micro\Dgn Final Eng\SG1108 INTERCONNECT PLAN SHEETS 505C.dgn

Path: H:\SDSKPro\SG1108-Micro\Dgn Final Eng\SG1108 INTERCONNECT PLAN SHEETS 505C.dgn

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VILLAGE OF SUGAR GROVE
10 S. MUNICIPAL DRIVE
SUGAR GROVE, IL 60554

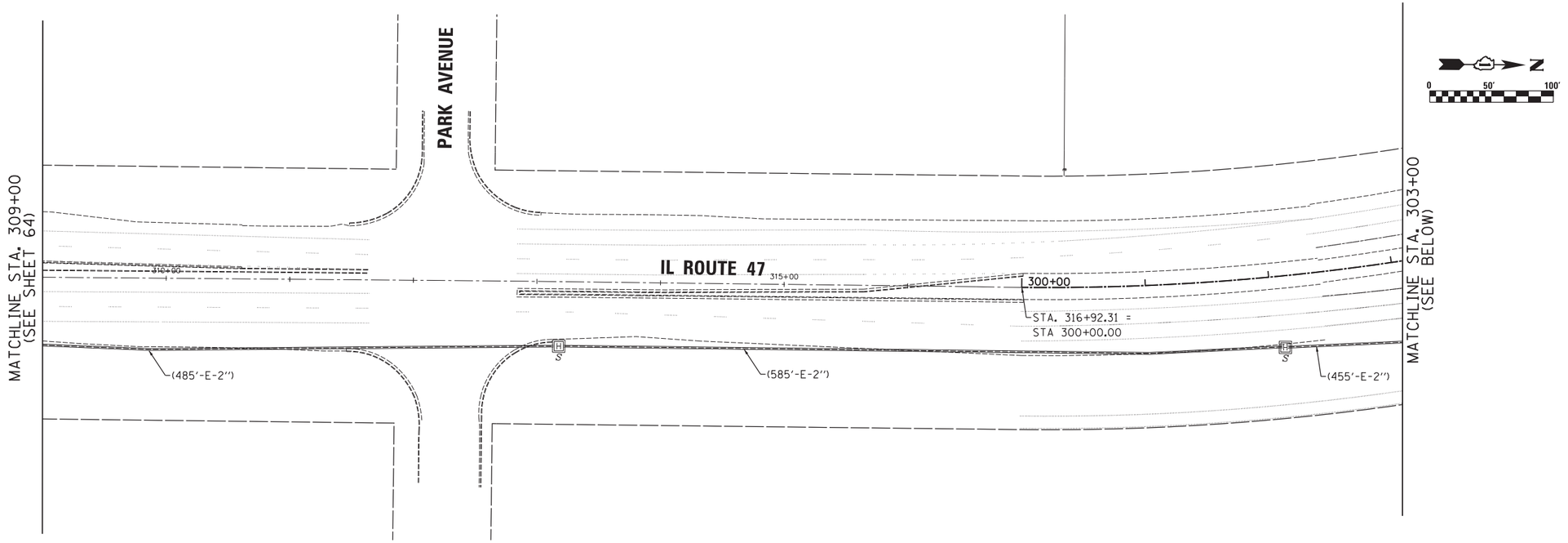
DESIGNED - CMF	REVISED -	
DRAWN - JPS	REVISED -	
CHECKED - TVW	REVISED -	
DATE - 08/11/2017	REVISED -	

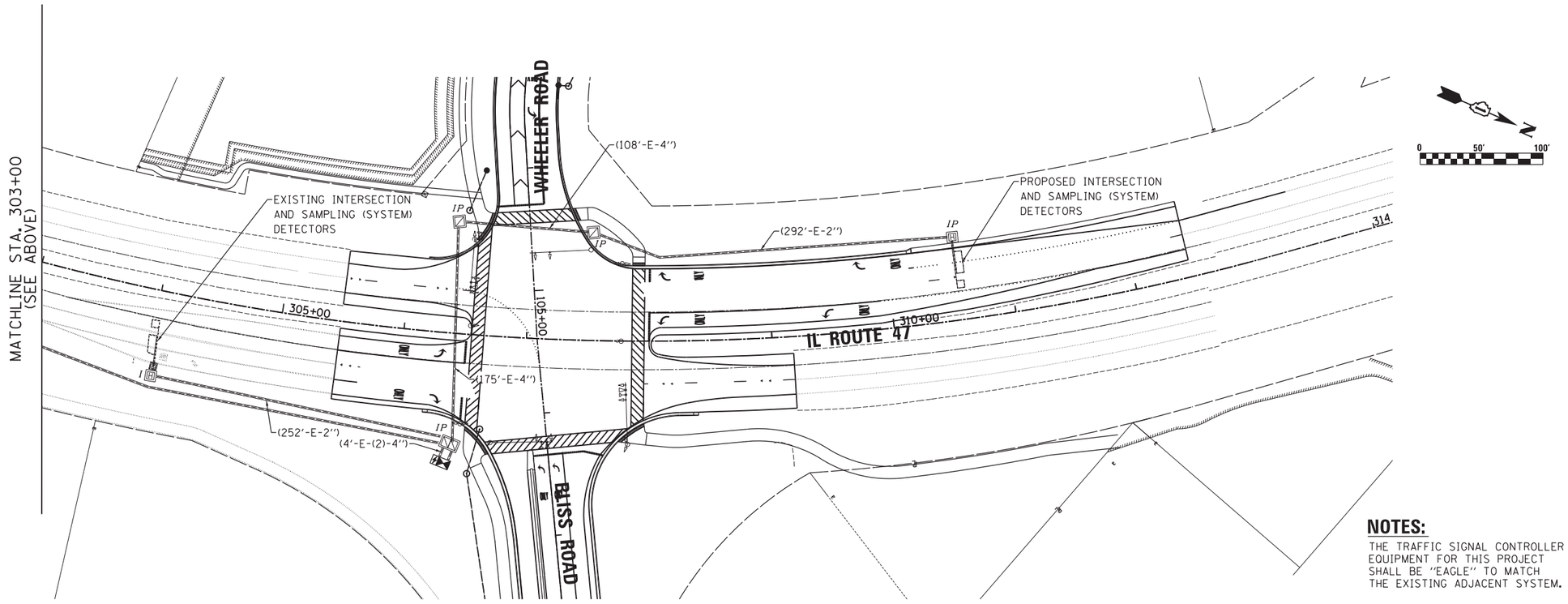
STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

INTERCONNECT PLAN
BLISS ROAD / WHEELER ROAD AT ILLINOIS ROUTE 47

SCALE: 1"=50' | SHEET NO. 3 OF 5 SHEETS | STA. 300+00 TO STA. 312+00

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
326	13-00026-00-CH	KANE	107	64
		CONTRACT NO. 61E52		
	ILLINOIS FED. AID PROJECT			





NOTES:

THE TRAFFIC SIGNAL CONTROLLER EQUIPMENT FOR THIS PROJECT SHALL BE "EAGLE" TO MATCH THE EXISTING ADJACENT SYSTEM.

EAGLE 50

TS SHT NO. 25

Plotted: 6/1/2018 9:16:30 AM By: tschmidt

FILE NAME: H:\SDSKProj\SG1108-Micro\Dgn Final Eng\SG1108 INTERCONNECT PLAN SHEETS 505C.dgn

Path: H:\SDSKProj\SG1108-Micro\Dgn Final Eng\SG1108 INTERCONNECT PLAN SHEETS 505C.dgn

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VILLAGE OF SUGAR GROVE
10 S. MUNICIPAL DRIVE
SUGAR GROVE, IL 60554

DESIGNED	- CMF	REVISED	-
DRAWN	- JPS	REVISED	-
CHECKED	- TVW	REVISED	-
DATE	- 08/11/2017	REVISED	-

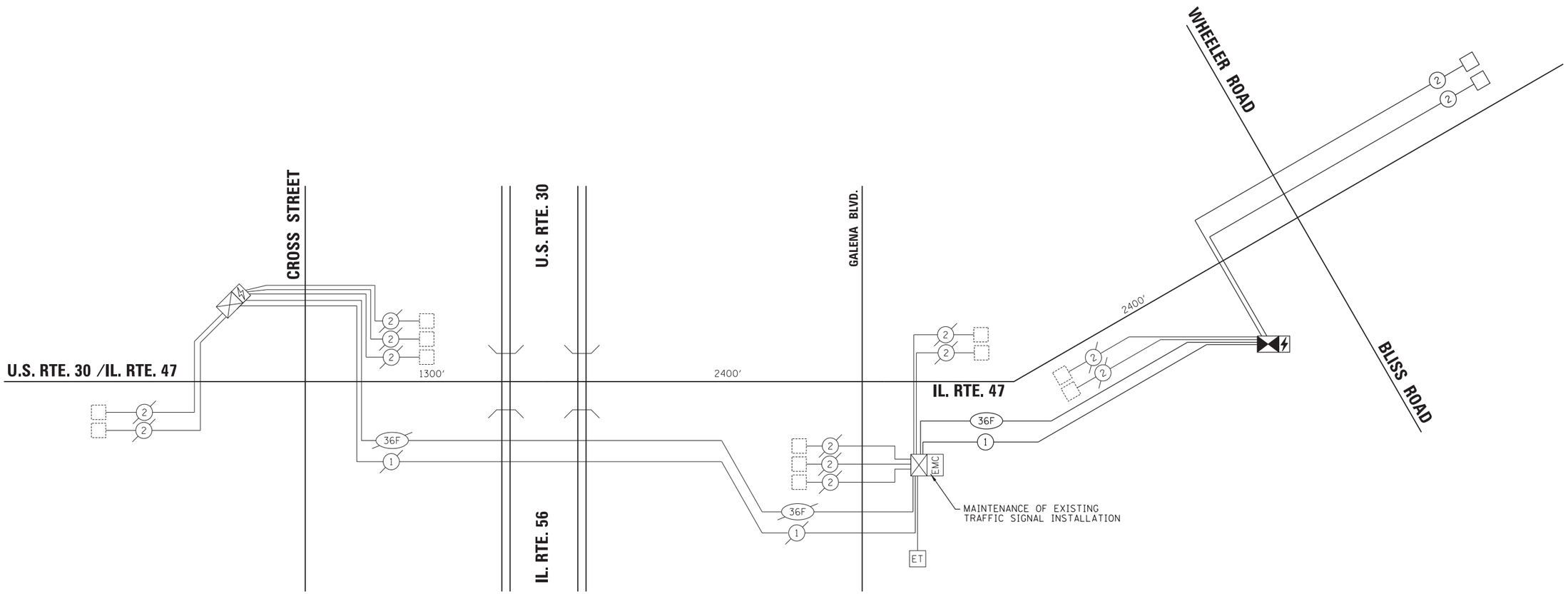
STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

INTERCONNECT PLAN
BLISS ROAD / WHEELER ROAD AT ILLINOIS ROUTE 47

SCALE: 1"=50' | SHEET NO. 4 OF 5 SHEETS | STA. 300+00 TO STA. 312+00

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
326	13-00026-00-CH	KANE	107	65
		CONTRACT NO. 61E52		
		ILLINOIS FED. AID PROJECT		

N.T.S.



INTERCONNECT SCHEDULE OF QUANTITIES

	ITEM DESCRIPTION	UNITS	TOTAL QTY.
	MAINTENANCE OF EXISTING TRAFFIC SIGNAL INSTALLATION	EACH	1
	ELECTRIC CABLE IN CONDUIT, TRACER, NO. 14 1C	FOOT	483
	REMOVE ELECTRIC CABLE FROM CONDUIT	FOOT	2,852
	FIBER OPTIC CABLE IN CONDUIT, NO. 62.5/125, MM12F SM24F	FOOT	2,369
	RE-OPTIMIZE TRAFFIC SIGNAL SYSTEM LEVEL 2	EACH	1
	TRANSCEIVER - FIBER OPTIC	EACH	1
✳	ROD AND CLEAN EXISTING CONDUIT	FOOT	500

✳ - NOMINAL QUANTITY TO BE USED AS NEEDED AND APPROVED BY THE ENGINEER

EAGLE 50

TS SHT NO. 26

Plotted: 5/31/2018 4:02:15 PM By: jschmidt FILE NAME: H:\SDSKPro\SG1108-Micro\Dgn Final Eng\SG1108 TS PLAN SHEETS 205C.dgn

Path: H:\SDSKPro\SG1108-Micro\Dgn Final Eng\SG1108 TS PLAN SHEETS 205C.dgn

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VILLAGE OF SUGAR GROVE
10 S. MUNICIPAL DRIVE
SUGAR GROVE, IL 60554

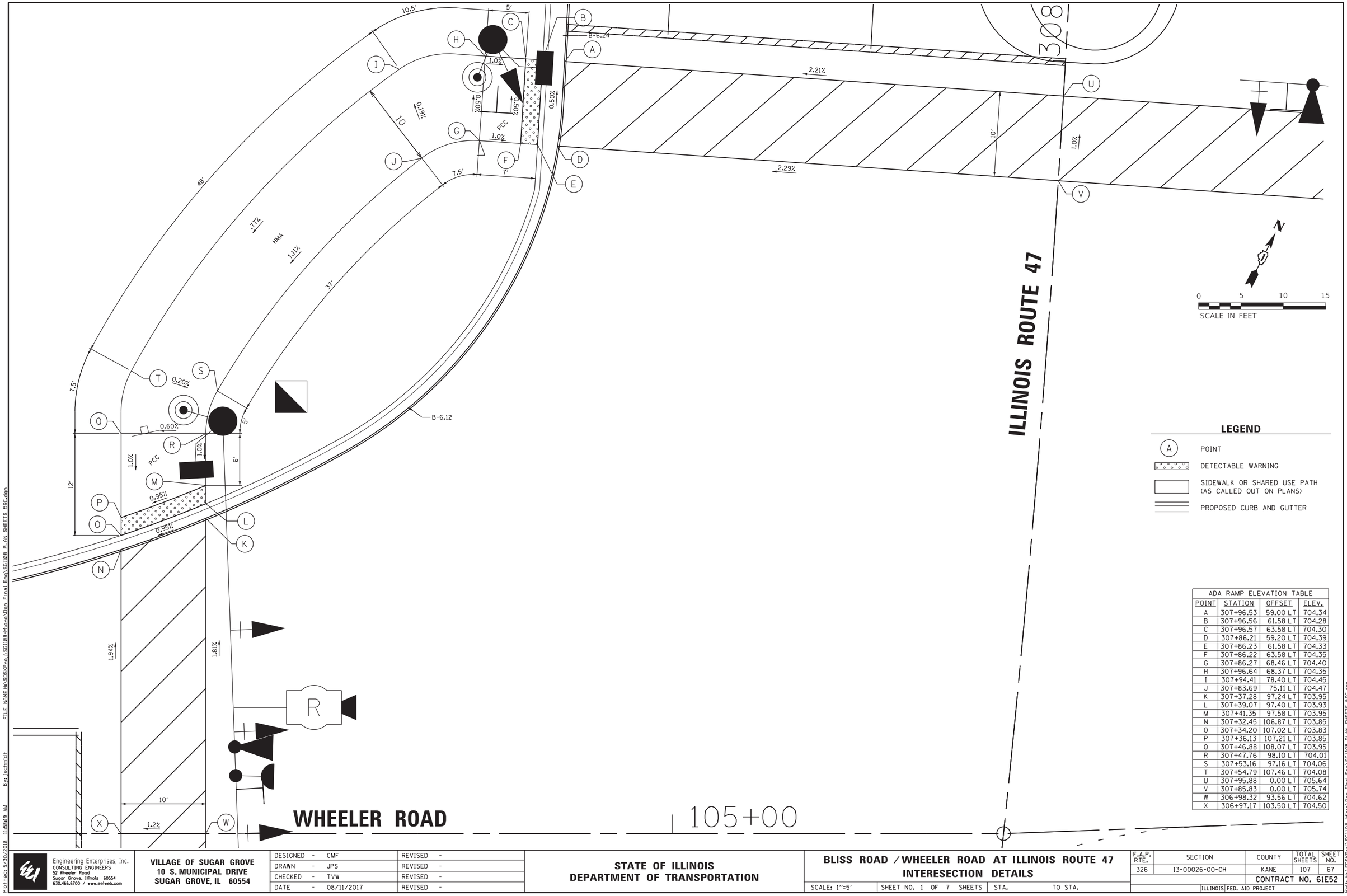
DESIGNED - CMF		REVISED -
DRAWN - JPS		REVISED -
CHECKED - TVW		REVISED -
DATE - 08/11/2017		REVISED -

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

INTERCONNECT PLAN
BLISS ROAD / WHEELER ROAD AT ILLINOIS ROUTE 47

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

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
326	13-00026-00-CH	KANE	107	66
		CONTRACT NO. 61E52		
	ILLINOIS FED. AID PROJECT			



ADA RAMP ELEVATION TABLE

POINT	STATION	OFFSET	ELEV.
A	307+96.53	59.00 LT	704.34
B	307+96.56	61.58 LT	704.28
C	307+96.57	63.58 LT	704.30
D	307+86.21	59.20 LT	704.39
E	307+86.23	61.58 LT	704.33
F	307+86.22	63.58 LT	704.35
G	307+86.27	68.46 LT	704.40
H	307+96.64	68.37 LT	704.35
I	307+94.41	78.40 LT	704.45
J	307+83.69	75.11 LT	704.47
K	307+37.28	97.24 LT	703.95
L	307+39.07	97.40 LT	703.93
M	307+41.35	97.58 LT	703.95
N	307+32.45	106.87 LT	703.85
O	307+34.20	107.02 LT	703.83
P	307+36.13	107.21 LT	703.85
Q	307+46.88	108.07 LT	703.95
R	307+47.76	98.10 LT	704.01
S	307+53.16	97.16 LT	704.06
T	307+54.79	107.46 LT	704.08
U	307+95.88	0.00 LT	705.64
V	307+85.83	0.00 LT	705.74
W	306+98.32	93.56 LT	704.62
X	306+97.17	103.50 LT	704.50

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VILLAGE OF SUGAR GROVE
10 S. MUNICIPAL DRIVE
SUGAR GROVE, IL 60554

DESIGNED - CMF	REVISED -	
DRAWN - JPS	REVISED -	
CHECKED - TVW	REVISED -	
DATE - 08/11/2017	REVISED -	

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

BLISS ROAD / WHEELER ROAD AT ILLINOIS ROUTE 47
INTERESECTION DETAILS

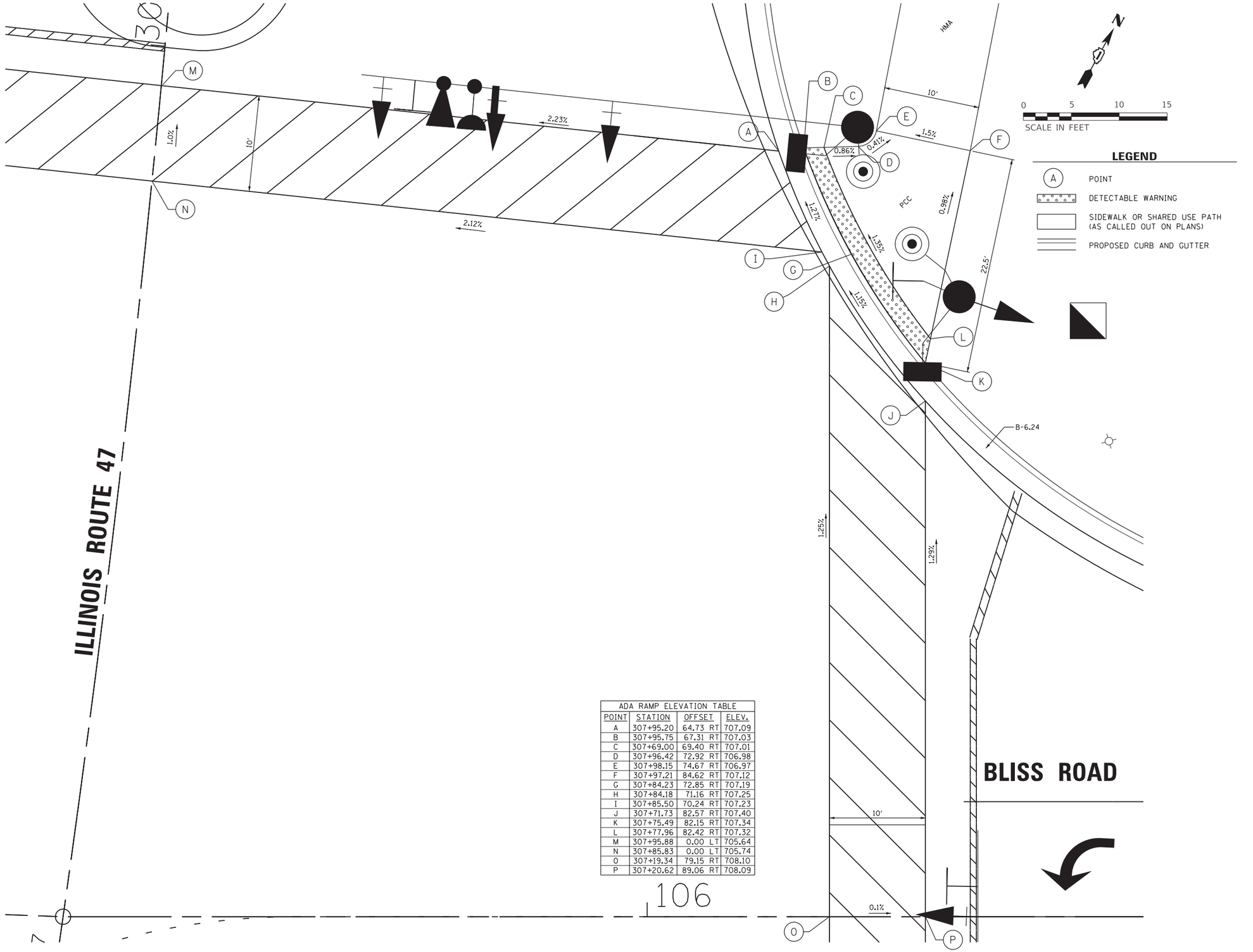
SCALE: 1"=5' | SHEET NO. 1 OF 7 SHEETS | STA. | TO STA.

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
326	13-00026-00-CH	KANE	107	67

CONTRACT NO. 61E52
ILLINOIS FED. AID PROJECT

Plotted: 5/30/2018 11:58:19 AM By: lschmidt FILE NAME: H:\SDSKPro\SG1108-Micro\Dgn Final Eng\SG1108 PLAN SHEETS 55C.dgn

Path: H:\SDSKPro\SG1108-Micro\Dgn Final Eng\SG1108 PLAN SHEETS 55C.dgn



ADA RAMP ELEVATION TABLE			
POINT	STATION	OFFSET	ELEV.
A	307+95.20	64.73 RT	707.09
B	307+95.75	67.31 RT	707.03
C	307+69.00	69.40 RT	707.01
D	307+96.42	72.92 RT	706.98
E	307+98.15	74.67 RT	706.97
F	307+97.21	84.62 RT	707.12
G	307+84.23	72.85 RT	707.19
H	307+84.18	71.16 RT	707.25
I	307+85.50	70.24 RT	707.23
J	307+71.73	82.57 RT	707.40
K	307+75.49	82.15 RT	707.34
L	307+77.96	82.42 RT	707.32
M	307+95.88	0.00 LT	705.64
N	307+85.83	0.00 LT	705.74
O	307+19.34	79.15 RT	708.10
P	307+20.62	89.06 RT	708.09

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SUGAR GROVE, IL 60554

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DATE - 08/11/2017	REVISED -	

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

BLISS ROAD / WHEELER ROAD AT ILLINOIS ROUTE 47
INTERESECTION DETAILS

SCALE: 1"=5' | SHEET NO. 2 OF 7 SHEETS | STA. | TO STA.

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
326	13-00026-00-CH	KANE	107	68
		CONTRACT NO. 61E52		
	ILLINOIS FED. AID PROJECT			

ADA RAMP ELEVATION TABLE			
POINT	STATION	OFFSET	ELEV.
A	306+69.60	100.43 LT	705.19
B	306+67.87	100.22 LT	705.18
C	306+69.69	99.97 LT	705.20
D	306+58.53	104.08 LT	705.13
E	306+64.61	90.10 LT	705.29
F	306+66.36	89.96 LT	705.29
G	306+65.92	88.99 LT	705.30
H	306+55.40	74.09 LT	705.20
I	306+55.40	76.39 LT	705.19
J	306+55.30	79.33 LT	705.21
K	306+56.02	110.85 LT	705.06
L	306+44.78	111.00 LT	705.16
M	306+43.07	116.00 LT	705.11
N	306+54.28	115.86 LT	705.01
O	306+97.17	103.50 LT	704.50
P	306+98.32	93.56 LT	704.62
Q	306+65.24	0.00 LT	706.56
R	306+55.24	0.00 LT	706.66
S	306+62.67	90.88 LT	705.31

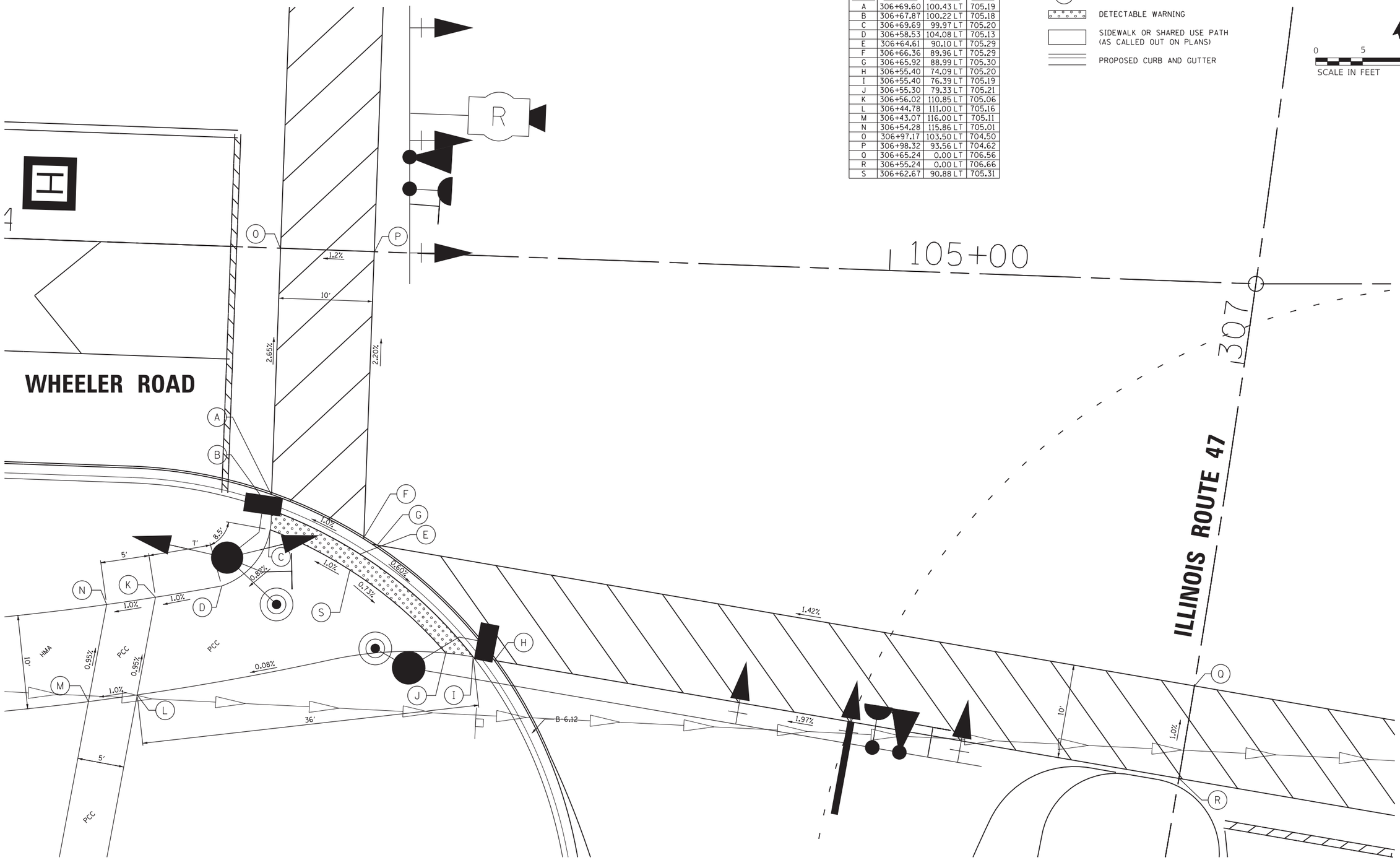
LEGEND

- (A) POINT
- DETECTABLE WARNING
- SIDEWALK OR SHARED USE PATH (AS CALLED OUT ON PLANS)
- PROPOSED CURB AND GUTTER

N

0 5 10 15

SCALE IN FEET



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VILLAGE OF SUGAR GROVE
10 S. MUNICIPAL DRIVE
SUGAR GROVE, IL 60554

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DRAWN - JPS	REVISED -	
CHECKED - TVW	REVISED -	
DATE - 08/11/2017	REVISED -	

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

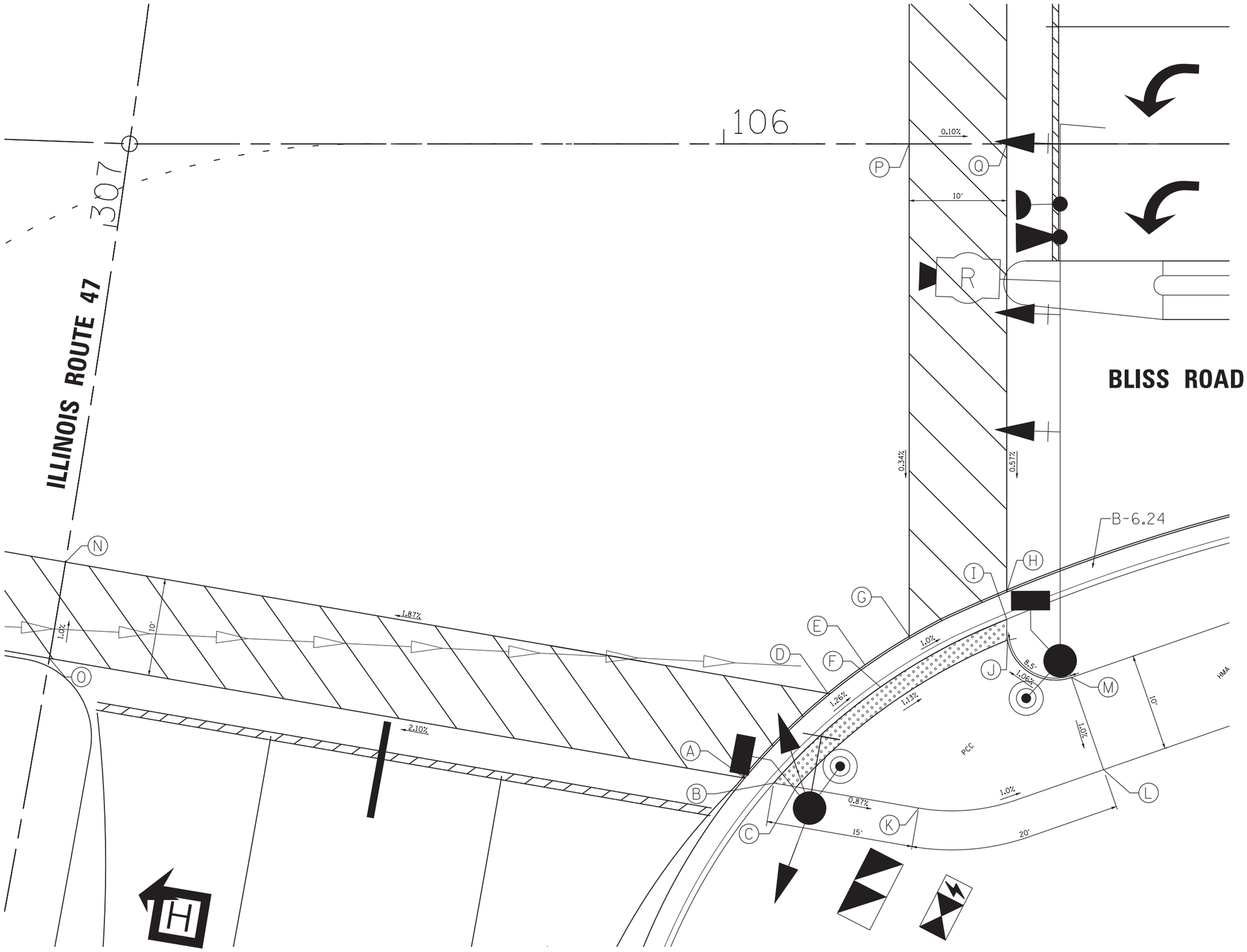
BLISS ROAD / WHEELER ROAD AT ILLINOIS ROUTE 47
INTERESECTION DETAILS

SCALE: 1"=5' | SHEET NO. 3 OF 7 SHEETS | STA. | TO STA.

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
326	13-00026-00-CH	KANE	107	69
		CONTRACT NO. 61E52		
	ILLINOIS FED. AID PROJECT			

Plotted: 5/30/2018 11:58:19 AM By: jschmidt FILE NAME: H:\SDSKProj\SG1108-Micro\Dgn Final Eng\SG1108 PLAN SHEETS 55C.dgn

Path: H:\SDSKProj\SG1108-Micro\Dgn Final Eng\SG1108 PLAN SHEETS 55C.dgn



N

0 5 10 15

SCALE IN FEET

LEGEND

- (A) POINT
- DETECTABLE WARNING
- SIDEWALK OR SHARED USE PATH (AS CALLED OUT ON PLANS)
- PROPOSED CURB AND GUTTER

ADA RAMP ELEVATION TABLE			
POINT	STATION	OFFSET	ELEV.
A	306+55.09	72.31 RT	708.17
B	306+55.08	75.32 RT	708.11
C	306+55.08	77.67 RT	708.09
D	306+64.68	79.51 RT	708.04
E	306+68.11	82.92 RT	707.98
F	306+66.33	84.72 RT	707.92
G	306+71.27	86.60 RT	707.93
H	306+77.27	95.72 RT	707.83
I	306+74.64	96.16 RT	707.77
J	306+72.66	96.57 RT	707.79
K	306+55.06	90.40 RT	707.98
L	306+61.73	108.43 RT	707.78
M	306+70.06	103.66 RT	707.88
N	306+65.24	0.00 RT	706.56
O	306+55.24	0.00 RT	706.66
P	307+19.34	79.15 RT	708.10
Q	307+20.62	89.06 RT	708.09

Engineering Enterprises, Inc.
CONSULTING ENGINEERS
52 Wheeler Road
Sugar Grove, Illinois 60554
630.466.6700 / www.eeiweb.com

VILLAGE OF SUGAR GROVE
10 S. MUNICIPAL DRIVE
SUGAR GROVE, IL 60554

DESIGNED - CMF	REVISED -	
DRAWN - JPS	REVISED -	
CHECKED - TVW	REVISED -	
DATE - 08/11/2017	REVISED -	

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

BLISS ROAD / WHEELER ROAD AT ILLINOIS ROUTE 47
INTERESECTION DETAILS

SCALE: 1"=5' | SHEET NO. 4 OF 7 SHEETS | STA. | TO STA.

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
326	13-00026-00-CH	KANE	107	70
		CONTRACT NO. 61E52		
	ILLINOIS FED. AID PROJECT			

Plotted: 5/30/2018 11:58:20 AM By: jschmidt FILE NAME: H:\SDSKProj\SG1108-Micro\Dgn Final Eng\SG1108 PLAN SHEETS 55C.dgn

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WHEELER ROAD

N

0 5 10 15

SCALE IN FEET

102

B-6.12

B-6.12

DIVISION DRIVE

PCC

10'

3'

1.0%

0.60%

1.0%

1.0%

1.0%

11'

1.55%

2.22%

1.06%

1.0%

1.47%

1.0%

1.0%

1.0%

0.60%

3'

10'

9'

A B C D E F G H I J K L M N O P Q R

LEGEND

- A — POINT
- DETECTABLE WARNING
- SIDEWALK OR SHARED USE PATH (AS CALLED OUT ON PLANS)
- PROPOSED CURB AND GUTTER

ADA RAMP ELEVATION TABLE

POINT	STATION	OFFSET	ELEV.
A	101+22.75	47.33 RT	705.44
B	101+21.23	47.34 RT	705.43
C	101+19.56	47.35 RT	705.45
D	101+17.84	37.36 RT	705.56
E	101+16.24	37.36 RT	705.55
F	101+14.50	37.38 RT	705.57
G	101+11.89	37.39 RT	705.60
H	101+12.08	47.39 RT	705.54
I	101+67.78	54.09 RT	705.61
J	101+69.11	54.09 RT	705.60
K	101+70.75	54.08 RT	705.62
L	101+70.66	44.08 RT	705.71
M	101+72.17	44.07 RT	705.70
N	101+73.88	44.06 RT	705.72
O	101+76.42	44.05 RT	705.75
P	101+76.31	54.05 RT	705.69
Q	101+45.97	49.91 RT	705.94
R	101+44.48	38.75 RT	706.04

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VILLAGE OF SUGAR GROVE
10 S. MUNICIPAL DRIVE
SUGAR GROVE, IL 60554

DESIGNED - CMF	REVISED -	
DRAWN - JPS	REVISED -	
CHECKED - TVW	REVISED -	
DATE - 08/11/2017	REVISED -	

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

BLISS ROAD / WHEELER ROAD AT ILLINOIS ROUTE 47
INTERESECTION DETAILS

SCALE: 1"=5' | SHEET NO. 5 OF 7 SHEETS | STA. | TO STA.

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
326	13-00026-00-CH	KANE	107	71

CONTRACT NO. 61E52

ILLINOIS FED. AID PROJECT

Plotted: 5/30/2018 11:58:20 AM By: jschmidt FILE NAME: H:\SDSKProj\SG1108-Micro\Dgn Final Eng\SG1108 PLAN SHEETS SSC.dgn

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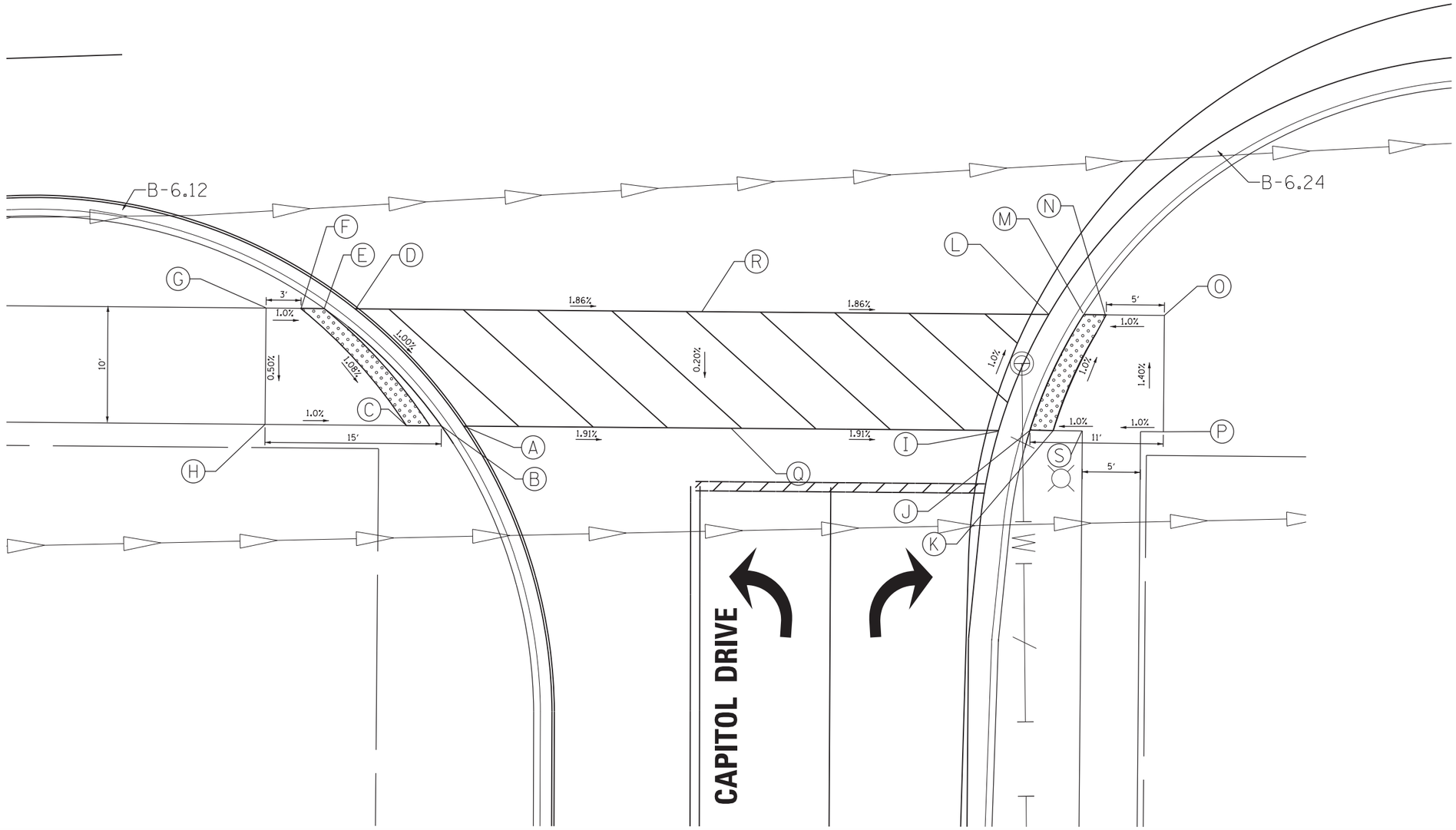
111

BLISS ROAD



N

0 5 10 15

SCALE IN FEET

LEGEND

- A — POINT
- DETECTABLE WARNING
- SIDEWALK OR SHARED USE PATH (AS CALLED OUT ON PLANS)
- PROPOSED CURB AND GUTTER

ADA RAMP ELEVATION TABLE			
POINT	STATION	OFFSET	ELEV.
A	110+74.97	55.42 RT	702.99
B	110+73.05	55.41 RT	702.98
C	110+70.04	55.38 RT	703.00
D	110+65.62	45.34 RT	703.13
E	110+62.97	45.32 RT	703.12
F	110+60.98	45.33 RT	703.14
G	110+57.97	45.27 RT	703.17
H	110+57.89	55.27 RT	703.12
I	111+20.94	55.80 RT	702.13
J	111+23.65	55.76 RT	702.07
K	111+25.64	55.80 RT	702.09
L	111+25.26	45.82 RT	702.03
M	111+28.27	45.82 RT	701.97
N	111+30.20	45.86 RT	701.99
O	111+34.23	45.90 RT	702.04
P	111+34.15	55.90 RT	702.18
Q	110+97.95	55.61 RT	702.56
R	110+95.44	45.58 RT	702.58
S	111+29.15	55.84 RT	702.11

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VILLAGE OF SUGAR GROVE
10 S. MUNICIPAL DRIVE
SUGAR GROVE, IL 60554

DESIGNED - CMF	REVISED -	
DRAWN - JPS	REVISED -	
CHECKED - TVW	REVISED -	
DATE - 08/11/2017	REVISED -	

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

BLISS ROAD / WHEELER ROAD AT ILLINOIS ROUTE 47
INTERESECTION DETAILS

SCALE: 1"=5' | SHEET NO. 6 OF 7 SHEETS | STA. | TO STA.

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
326	13-00026-00-CH	KANE	107	72
		CONTRACT NO. 61E52		
	ILLINOIS FED. AID PROJECT			

Plotted: 5/30/2018 11:58:21 AM By: jschmidt FILE NAME: H:\SDSKPro\SG1108-Micro\Dgn Final Eng\SG1108 PLAN SHEETS 55C.dgn

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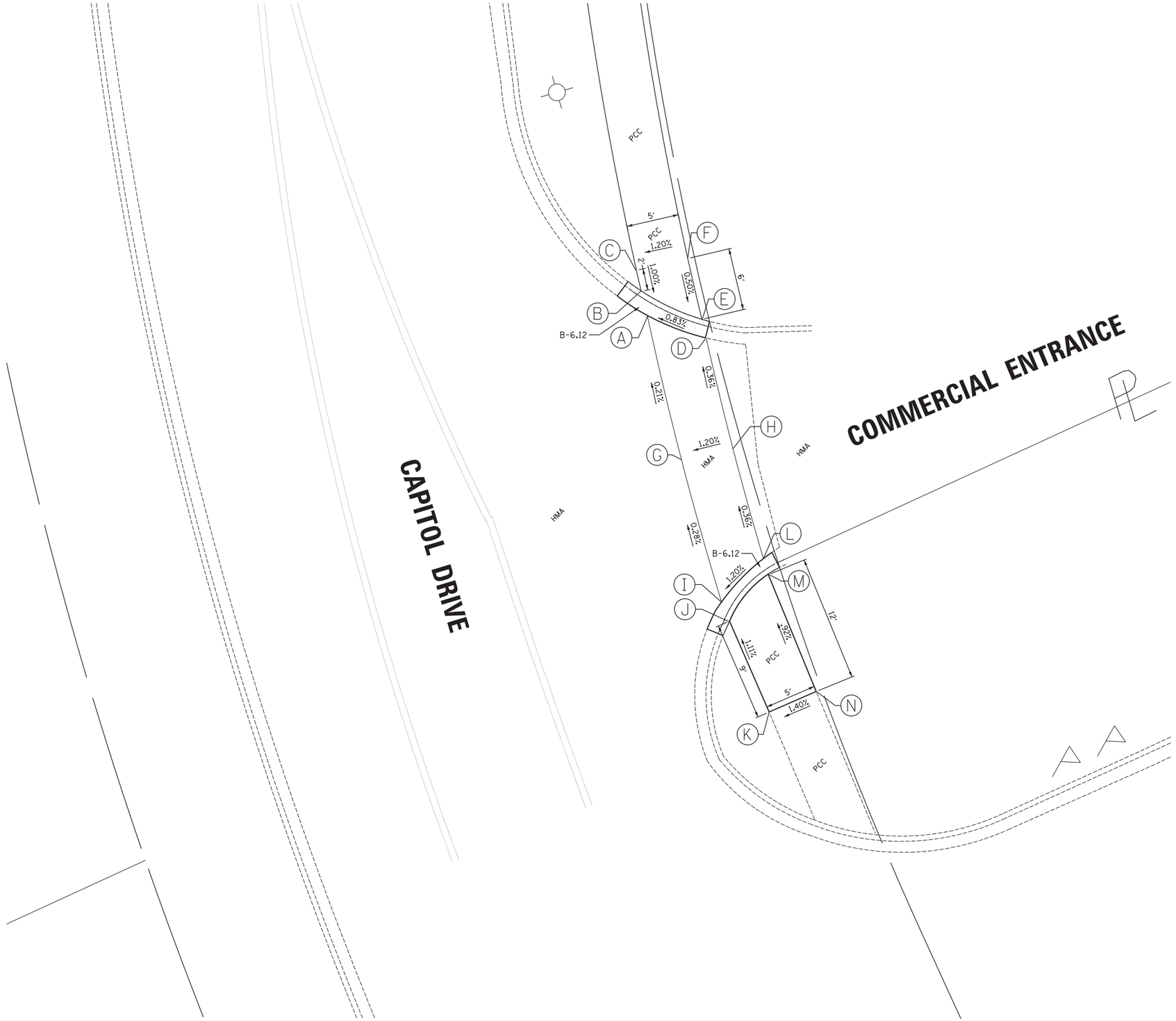

ADA RAMP ELEVATION TABLE			
POINT	STATION	OFFSET	ELEV.
A	111+36.64	198.76 RT	703.47
B	111+36.13	196.47 RT	703.46
C	111+35.68	194.52 RT	703.48
D	111+42.33	200.95 RT	703.52
E	111+41.91	199.18 RT	703.51
F	111+40.56	193.40 RT	703.54
G	111+40.21	212.40 RT	703.50
H	111+44.88	211.08 RT	703.56
I	111+43.78	226.03 RT	703.54
J	111+44.54	227.86 RT	703.53
K	111+48.53	237.03 RT	703.63
L	111+47.63	222.01 RT	703.60
M	111+48.22	223.44 RT	703.59
N	111+52.99	235.08 RT	703.70

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VILLAGE OF SUGAR GROVE
10 S. MUNICIPAL DRIVE
SUGAR GROVE, IL 60554

DESIGNED - CMF	REVISED -	
DRAWN - JPS	REVISED -	
CHECKED - TVW	REVISED -	
DATE - 08/11/2017	REVISED -	

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

BLISS ROAD / WHEELER ROAD AT ILLINOIS ROUTE 47
INTERESECTION DETAILS

SCALE: 1"=5' | SHEET NO. 7 OF 7 SHEETS | STA. | TO STA.

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
326	13-00026-00-CH	KANE	107	73
		CONTRACT NO. 61E52		
	ILLINOIS FED. AID PROJECT			

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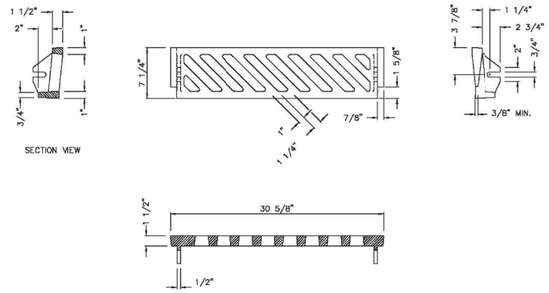
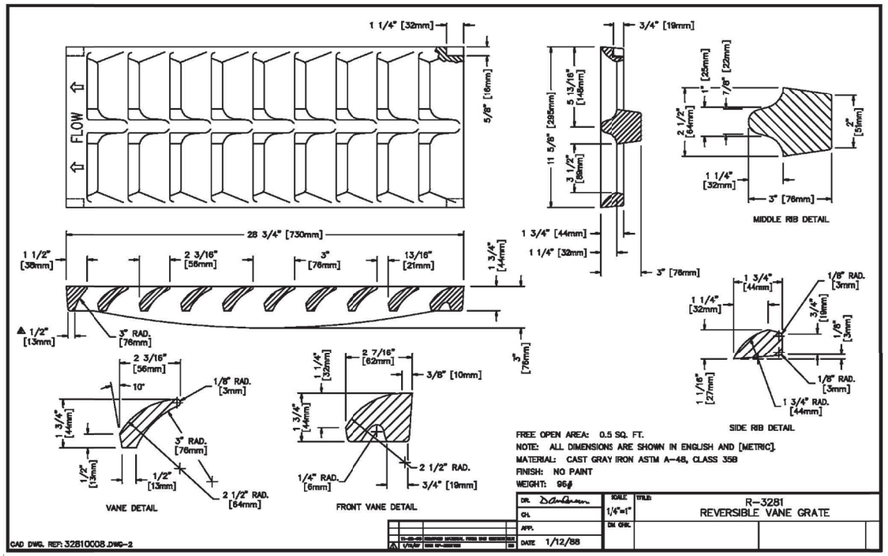
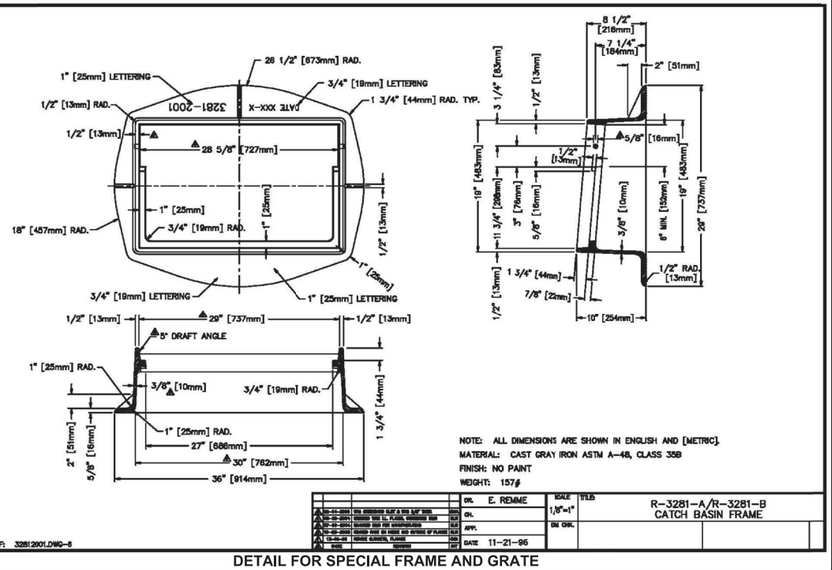
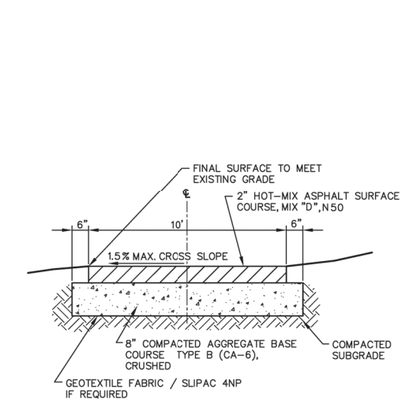




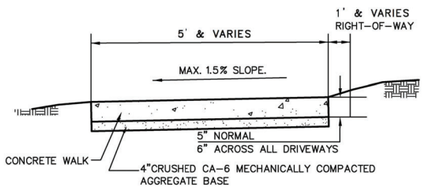


DETAIL FOR SPECIAL FRAME AND GRATE



TYPICAL PATH SECTION

Village of Sugar Grove, 10 Municipal Drive, Sugar Grove, Illinois 60554, Phone: (630) 466-4507	SCALE: N.T.S.	FOLDER: SG-RD	DRAWING NUMBER: 12	DRAWN BY: CLN
	DATE: 8/14/07			REVISED: 02/05/09

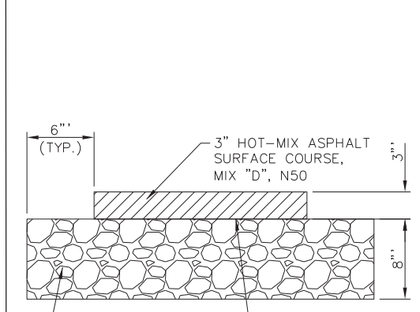


TYPICAL EXPANSION JOINT SPACING CURB AND SIDEWALK

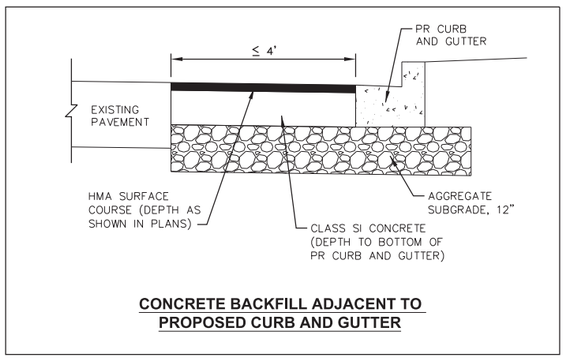
POUR TEMP. (DEG. F°)	EXPANSION JOINT (SPACING FT.)
40 MIN.....	70'
45.....	75'
50.....	80'
55.....	90'
60.....	95'
65.....	105'
70.....	115'
75.....	125'
80.....	145'
85.....	160'
90 MAX.....	190'

TYPICAL SIDEWALK SECTION

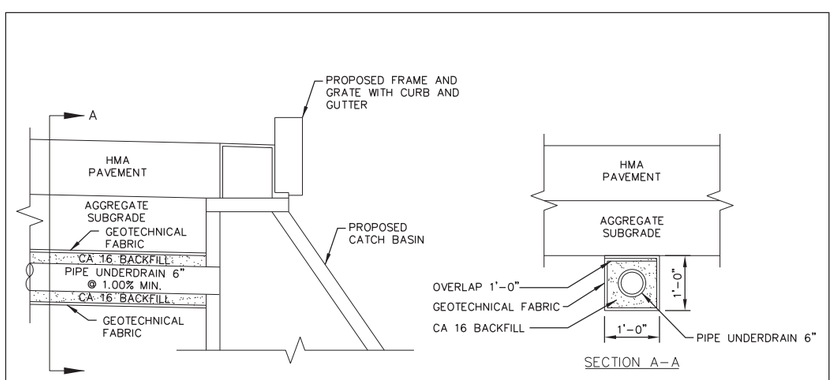
Village of Sugar Grove, 10 Municipal Drive, Sugar Grove, Illinois 60554, Phone: (630) 466-4507	SCALE: N.T.S.	FOLDER: SG-RD	DRAWING NUMBER: 13	DRAWN BY: CLN
	DATE: 5/18/07			REVISED: 05/30/12



STABILIZED DRIVEWAY PAVEMENT

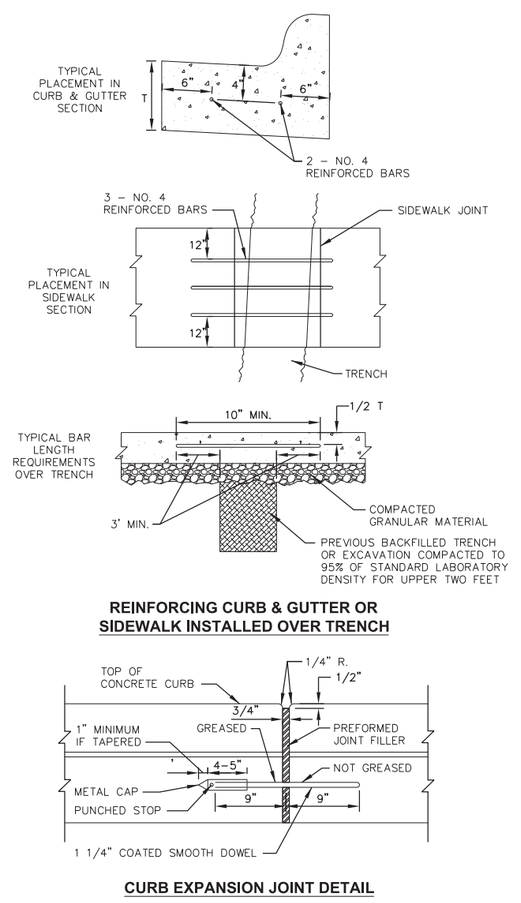


CONCRETE BACKFILL ADJACENT TO PROPOSED CURB AND GUTTER



PIPE UNDERDRAIN, 6" DETAIL

Engineering Enterprises, Inc., 52 Wheeler Road, Sugar Grove, Illinois 60554, Phone: (630) 466-9350	SCALE: N.T.S.	FOLDER:	DRAWING NUMBER:	DRAWN BY: KKP
	DATE: 12/15/11			REVISED:



REINFORCING CURB & GUTTER OR SIDEWALK INSTALLED OVER TRENCH

CURB EXPANSION JOINT DETAIL

Engineering Enterprises, Inc., CONSULTING ENGINEERS, 52 Wheeler Road, Sugar Grove, Illinois 60554, 630.466.6700 / www.eeiweb.com	VILLAGE OF SUGAR GROVE, 10 S. MUNICIPAL DRIVE, SUGAR GROVE, IL 60554		
	DESIGNED - CMF	REVISED -	
	DRAWN - JPS	REVISED -	
	CHECKED - TVW	REVISED -	
	DATE - 08/11/2017	REVISED -	

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

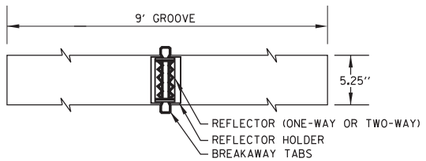
BLISS ROAD / WHEELER ROAD AT ILLINOIS ROUTE 47
SPECIAL DETAILS

SCALE: N.T.S | SHEET NO. 1 OF 9 SHEETS | STA. | TO STA.

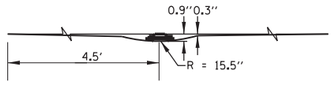
F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
326	13-00026-00-CH	KANE	107	74
		CONTRACT NO. 61E52		
		ILLINOIS FED. AID PROJECT		

Plotted: 5/30/2018 11:56:22 AM By: jschmidt File Name: H:\SDSKProj\SG1108-Micro\Dgn Final Eng\SG1108-Cvr.dgn

Path: H:\SDSKProj\SG1108-Micro\Dgn Final Eng\SG1108-Cvr.dgn



PLAN
N.T.S.



ELEVATION
N.T.S.

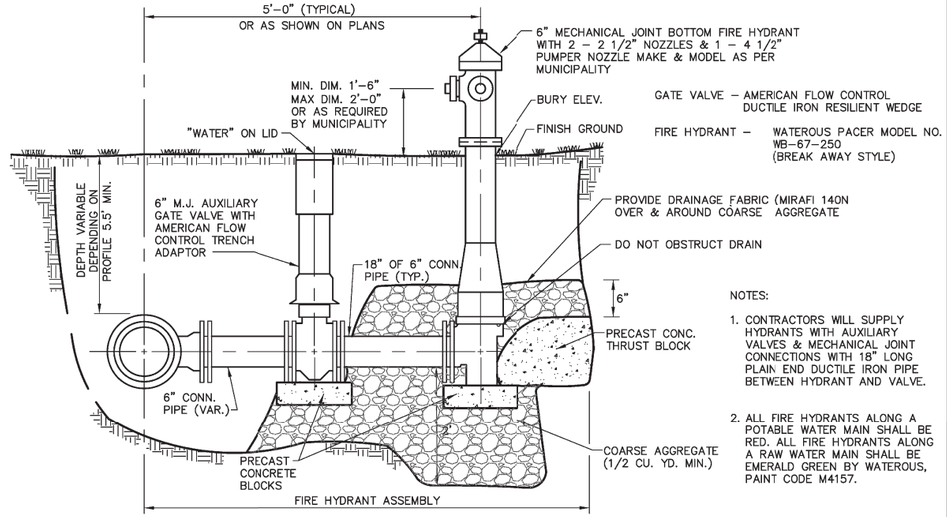
INSTALLATION NOTES:

1. SAW CUT TO DIMENSIONS SHOWN.
2. SAW CUT AREAS TO BE DRY AND FREE OF MATERIAL THAT ADVERSELY AFFECTS THE ADHESIVE BOND.
3. INSTALL THE REFLECTOR WITH AN APPROVED TWO-COMPONENT EPOXY ADHESIVE. EPOXY SHOULD NOT OBSCURE OR BLOCK THE LENS.
4. REFLECTOR SHALL BE 3M SERIES 190.
5. THE REFLECTOR HOLDER SHALL BE MARKERONE SERIES R100 REFLECTOR HOLDER.
6. FOR 1-WAY MARKERS HEADING UPHILL, UPHILL GRIND TAPER MAY BE OMITTED.

GENERAL NOTE:

1. MARKER PLACEMENT AND COLOR SHALL CONFORM TO IDOT DISTRICT 1 HIGHWAY STANDARD TC-11.

RECESSED REFLECTIVE PAVEMENT MARKERS



GATE VALVE – AMERICAN FLOW CONTROL DUCTILE IRON RESILIENT WEDGE

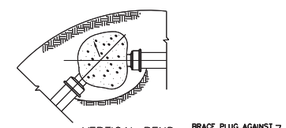
FIRE HYDRANT – WATEROUS PACER MODEL NO. WB-67-250 (BREAK AWAY STYLE)

NOTES:

1. CONTRACTORS WILL SUPPLY HYDRANTS WITH AUXILIARY VALVES & MECHANICAL JOINT CONNECTIONS WITH 18" LONG PLAIN END DUCTILE IRON PIPE BETWEEN HYDRANT AND VALVE.
2. ALL FIRE HYDRANTS ALONG A POTABLE WATER MAIN SHALL BE RED. ALL FIRE HYDRANTS ALONG A RAW WATER MAIN SHALL BE EMERALD GREEN BY WATEROUS, PAINT CODE M4157.

FIRE HYDRANT ASSEMBLY INSTALLATION

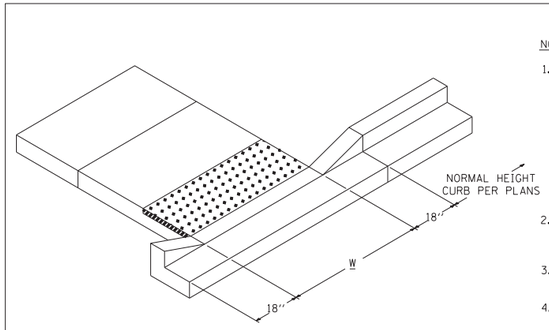
Village of Sugar Grove, 10 Municipal Drive, Sugar Grove, Illinois 60554, Phone: (630) 466-4507 | SCALE: N.T.S. | DATE: 8/14/07 | FOLDER: SG-WA | DRAWING NUMBER: 01 | DRAWN BY: CLN | REVISED:



NOTES:
ALL BLOCKS BEAR AGAINST UNDISTURBED EARTH.
ARROWS INDICATE DIRECTION OF THRUST.
ALL BLOCKS TO BE 3000 P.S.I. CONCRETE.
ALL FITTINGS SHOWN IN PLAN EXCEPT VERTICAL BEND.

TYPICAL THRUST BLOCK INSTALLATION

Engineering Enterprises, Inc., 52 Wheeler Road, Sugar Grove, Illinois 60554, Phone: (630) 466-9350 | SCALE: N.T.S. | DATE: 9/05/07 | FOLDER: EE-WA | DRAWING NUMBER: MI-07 | DRAWN BY: KKP | REVISED:

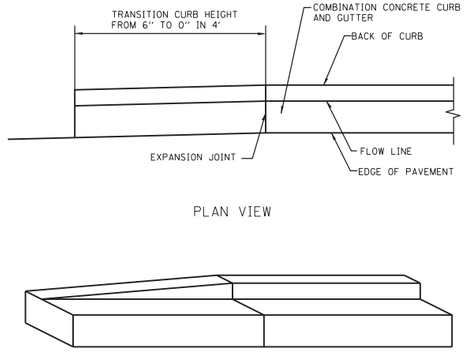


NOTES:

1. PLACEMENT OF DETECTABLE WARNING TILES SHALL ADHERE TO LOCATIONS & SETBACKS AS SHOWN IN IDOT HIGHWAY STANDARDS INCLUDING 424001, 424006, 424016, 424021, AND 424026 FOR VARIOUS FIELD CONDITIONS. SIDEWALK RAMP WIDTH (W) AND LAYOUT SHALL BE ACCORDING TO THESE IDOT HIGHWAY STANDARDS, EXCEPT A SIDE CURB SHALL NOT BE CONSTRUCTED IN LANDSCAPED AREAS.
2. DETECTABLE WARNING TILES SHALL BE BRICK RED AND MANUFACTURED BY ADA SOLUTIONS, INC.
3. TILES SHALL BE INSTALLED PER MANUFACTURER INSTRUCTIONS.
4. THE COLORING AND STAMPING OF CONCRETE WILL NOT BE ALLOWED.

CURB HEAD TAPER AT PEDESTRIAN RAMPS FOR SIDEWALK IN LANDSCAPED AREAS

Village of Sugar Grove, 10 Municipal Drive, Sugar Grove, Illinois 60554, Phone: (630) 466-4507 | SCALE: N.T.S. | DATE: 11/23/15 | FOLDER: | DRAWING NUMBER: | DRAWN BY: KKP | REVISED:



PLAN VIEW

ISOMETRIC VIEW

END OF CURB AND GUTTER TREATMENT (4' GUTTER OUTLET)

Engineering Enterprises, Inc., 52 Wheeler Road, Sugar Grove, Illinois 60554, Phone: (630) 466-9350 | SCALE: | DATE: | FOLDER: | DRAWING NUMBER: | DRAWN BY: | REVISED:

Engineering Enterprises, Inc.
CONSULTING ENGINEERS
52 Wheeler Road
Sugar Grove, Illinois 60554
630.466.6700 / www.eeiweb.com

VILLAGE OF SUGAR GROVE
10 S. MUNICIPAL DRIVE
SUGAR GROVE, IL 60554

DESIGNED	- CMF	REVISED	-
DRAWN	- JPS	REVISED	-
CHECKED	- TVW	REVISED	-
DATE	- 08/11/2017	REVISED	-

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

BLISS ROAD / WHEELER ROAD AT ILLINOIS ROUTE 47
SPECIAL DETAILS

SCALE: N.T.S. | SHEET NO. 2 OF 9 SHEETS | STA. | TO STA.

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
326	13-00026-00-CH	KANE	107	75
		CONTRACT NO. 61E52		
	ILLINOIS FED. AID PROJECT			

Plotted: 8/21/2019 3:46:20 PM By: jschmidt FILE NAME: H:\SDSKP-ro\SG1108-Micro\Dgn Final Eng\SG1108-Cvr.dgn

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TRAFFIC SIGNAL LEGEND

(NOT TO SCALE)

ITEM	EXISTING	PROPOSED
CONTROLLER CABINET		
COMMUNICATION CABINET	ECC	CC
MASTER CONTROLLER	EMC	MC
MASTER MASTER CONTROLLER	EMMC	MMC
UNINTERRUPTABLE POWER SUPPLY		
SERVICE INSTALLATION -(P) POLE MOUNTED	P	P
SERVICE INSTALLATION -(G) GROUND MOUNTED -(GM) GROUND MOUNTED METERED	G GM	G GM
TELEPHONE CONNECTION	ET	T
STEEL MAST ARM ASSEMBLY AND POLE		
ALUMINUM MAST ARM ASSEMBLY AND POLE		
STEEL COMBINATION MAST ARM ASSEMBLY AND POLE WITH LUMINAIRE		
SIGNAL POST -(BM) BARREL MOUNTED - TEMPORARY		BM
WOOD POLE		
GUY WIRE		
SIGNAL HEAD		
SIGNAL HEAD WITH BACKPLATE		
SIGNAL HEAD OPTICALLY PROGRAMMED	P P	P P
FLASHER INSTALLATION -(FS) SOLAR POWERED	F FS F FS	F FS F FS
PEDESTRIAN SIGNAL HEAD		
PEDESTRIAN PUSH BUTTON -(APS) ACCESSIBLE PEDESTRIAN PUSH BUTTON	APS	APS
RADAR DETECTION SENSOR	R	R
VIDEO DETECTION CAMERA	V	V
RADAR/VIDEO DETECTION ZONE		
PAN, TILT, ZOOM (PTZ) CAMERA	PTZ	PTZ
EMERGENCY VEHICLE LIGHT DETECTOR		
CONFIMATION BEACON		
WIRELESS INTERCONNECT		
WIRELESS INTERCONNECT RADIO REPEATER	ERR	RR

ITEM	EXISTING	PROPOSED
HANDHOLE -SQUARE -ROUND		
HEAVY DUTY HANDHOLE -SQUARE -ROUND	H	H
DOUBLE HANDHOLE		
JUNCTION BOX	J	J
RAILROAD CANTILEVER MAST ARM		
RAILROAD FLASHING SIGNAL		
RAILROAD CROSSING GATE		
RAILROAD CROSSBUCK		
RAILROAD CONTROLLER CABINET	RXR	RXR
UNDERGROUND CONDUIT (UC), GALVANIZED STEEL		
TEMPORARY SPAN WIRE, TETHER WIRE, AND CABLE		
SYSTEM ITEM	S	SP
INTERSECTION ITEM	I	IP
REMOVE ITEM		R
RELOCATE ITEM		RL
ABANDON ITEM		A
CONTROLLER CABINET AND FOUNDATION TO BE REMOVED		RCF
MAST ARM POLE AND FOUNDATION TO BE REMOVED		RMF
SIGNAL POST AND FOUNDATION TO BE REMOVED		RPF
DETECTOR LOOP, TYPE I		
PREFORMED DETECTOR LOOP	P P	P P
SAMPLING (SYSTEM) DETECTOR	S S	S S
INTERSECTION AND SAMPLING (SYSTEM) DETECTOR	IS IS	IS IS
QUEUE AND SAMPLING (SYSTEM) DETECTOR	QS QS	QS QS
WIRELESS DETECTOR SENSOR	W	W
WIRELESS ACCESS POINT		

ITEM	EXISTING	PROPOSED
SIGNAL HEAD -(P) PROGRAMMABLE SIGNAL HEAD	R Y G ◄Y ◄G (P)	R Y G ◄Y ◄G (P)
SIGNAL HEAD WITH BACKPLATE -(P) PROGRAMMABLE SIGNAL HEAD -(RB) RETROREFLECTIVE BACKPLATE	R Y G ◄Y ◄G (P) (RB)	R Y G ◄Y ◄G (P) (RB)
PEDESTRIAN SIGNAL HEAD AT RAILROAD INTERSECTIONS		
PEDESTRIAN SIGNAL HEAD WITH COUNTDOWN TIMER	C D	C D
ILLUMINATED SIGN "NO LEFT TURN"/"NO RIGHT TURN"		
NUMBER OF CONDUCTORS, ELECTRIC CABLE NO. 14, UNLESS NOTED OTHERWISE. ALL DETECTOR LOOP CABLE TO BE SHIELDED	5	5
GROUND CABLE IN CONDUIT, NO. 6 SOLID COPPER (GREEN)	1#6	1#6
ELECTRIC CABLE IN CONDUIT, TRACER NO. 14 1/C	1	1
COAXIAL CABLE	C	C
VENDOR CABLE	V	V
COPPER INTERCONNECT CABLE, NO. 18, 3 PAIR TWISTED, SHIELDED	6#18	6#18
FIBER OPTIC CABLE -NO. 62.5/125, MM12F -NO. 62.5/125, MM12F SM12F -NO. 62.5/125, MM12F SM24F	12F	12F
	24F	24F
	36F	36F
GROUND ROD -(C) CONTROLLER -(M) MAST ARM -(P) POST -(S) SERVICE	C M P S	C M P S

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STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

DISTRICT ONE
STANDARD TRAFFIC SIGNAL DESIGN DETAILS

SCALE: N.T.S. | SHEET NO. 3 OF 9 SHEETS | STA. | TO STA.

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
326	13-00026-00-CH	KANE	107	76
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LOOP DETECTOR NOTES

1. EACH PAIR OF LOOP WIRES SHALL BE PLACED IN A SEPARATE EMPTY COILABLE NONMETALLIC CONDUIT FROM THE EDGE OF PAVEMENT TO THE HANDHOLE. SPACING BETWEEN THE HOLES DRILLED IN THE PAVEMENT SHALL NOT BE LESS THAN 6" (150 mm). EMPTY COILABLE NONMETALLIC CONDUIT SHALL BE INCLUDED IN THE COST OF THE LOOP WIRE.

2. THE NUMBER OF LOOP TURNS SHALL BE AS RECOMMENDED BY THE AMPLIFIER MANUFACTURER. ALL ADJACENT SIDES OF THE LOOPS SHALL BE INSTALLED IN SUCH A WAY THAT THE CURRENT FLOW IS IN THE SAME DIRECTION TO REINFORCE ITS MAGNETIC FIELDS FOR SMALL VEHICLE DETECTION.

3. EACH LOOP LEAD-IN SHALL BE IDENTIFIED AND PERMANENTLY TAGGED IN THE HANDHOLE. EACH LEAD-IN CABLE TAG SHALL INDICATE THE LOCATION OF THE LOOP, LOOP ROTATION (CLOCKWISE/COUNTERCLOCKWISE), LOOP LEAD-IN DIRECTION (IN OR OUT), LOOP CABLE NUMBER AND LOCATION IN CABINET, AND NUMBER OF TURNS IN THE DETECTOR LOOPS IN WATER PROOF INK AS INDICATED ON THE DISTRICT 1 STANDARD TRAFFIC SIGNAL DESIGN DETAIL. THE CONTRACTOR SHALL MARK LOOP LOCATIONS ON RECORD DRAWINGS AND PRESENT TO THE ENGINEER AFTER FINAL INSPECTION. LOOPS SHALL BE MARKED BY LANE AND LOOP NUMBER. SEE DETAIL BELOW.

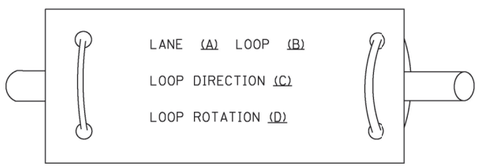
4. ALL LOOP CABLE SHALL BE FASTENED WITH PLASTIC TIE WRAP TO THE HANDHOLE HOOKS.

5. IN ASPHALT PAVEMENT, LOOPS SHOULD BE PLACED IN THE BINDER AND DIVEHOLES MARKED AT THE CURB WITH A SAW-CUT. THE SAW-CUT SHALL BE CUT IN ACCORDANCE WITH LOCAL AND E.P.A. DUST CONTROL REQUIREMENTS. DETECTOR LOOP(S) SHALL NOT BE INSTALLED IN WET CONDITIONS AND THE SAW-CUTS MUST BE FREE OF DEBRIS AND RESIDUE SUCH AS DUST AND WATER WHICH IS TO BE ACHIEVED BY THE USE OF COMPRESSED AIR, WIRE BRUSHING AND HEAT DRYING ACCORDING TO SEALANT MANUFACTURER REQUIREMENTS. THE DETECTOR WIRE SHALL BE HELD IN PLACE BY THE USE OF FORM WEDGES. WEDGES SHALL BE SPACED NO MORE THAN 18" (450 mm) APART.

6. LOOP SPLICES SHALL BE SOLDERED USING A SOLDERING IRON. BLOW TORCHES OR OTHER DEVICES WHICH OXIDIZE COPPER CABLE SHALL NOT BE ALLOWED FOR SOLDERING OPERATIONS. SEE DETAIL BELOW RIGHT.

7. PREFORMED DETECTOR LOOPS SHALL BE USED, AS SHOWN ON THE PLANS, WHERE NEW CONCRETE PAVEMENT IS PROPOSED. THE INSTALLATION OF PREFORMED LOOPS SHALL BE IN ACCORDANCE WITH THE DISTRICT 1 SPECIFICATIONS OR AS DIRECTED BY THE ENGINEER.

LOOP LEAD-IN CABLE TAG

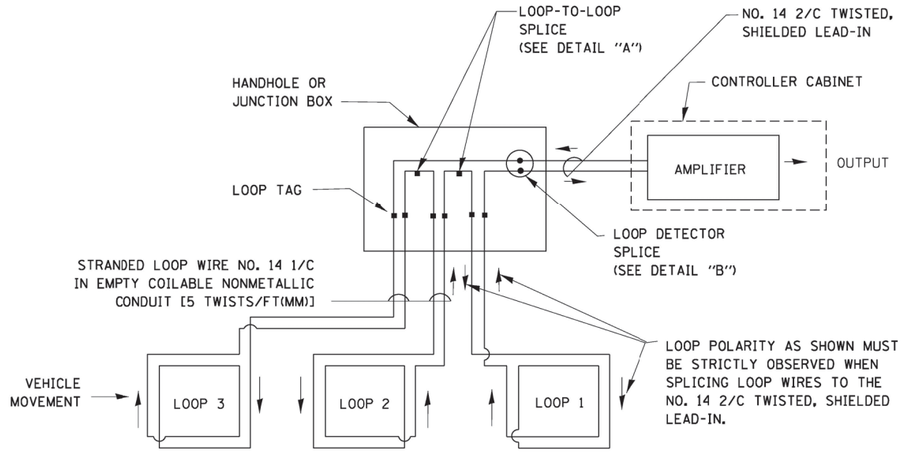


A. LANE 1 IS THE LANE CLOSEST TO THE CENTERLINE OF THE ROADWAY

B. LOOP #1 IS THE LOOP IN THE LANE CLOSEST TO THE INTERSECTION.

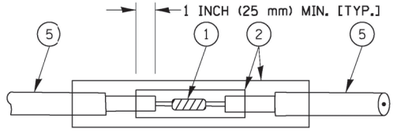
C. LABEL LOOP CABLE "IN" OR LOOP CABLE "OUT".

D. LABEL LOOP CABLE CLOCKWISE OR LOOP CABLE COUNTERCLOCKWISE.

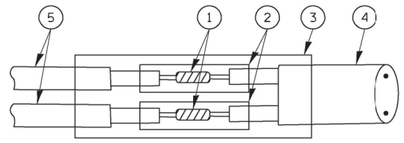


DETECTOR LOOP WIRING SCHEMATIC

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

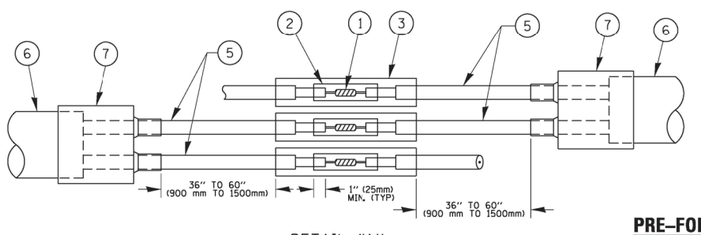


DETAIL "A"
LOOP-TO-LOOP SPLICE



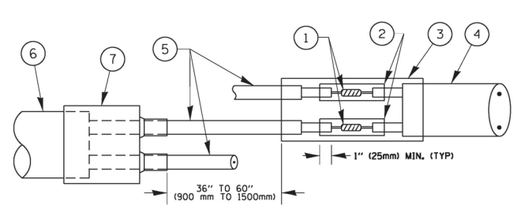
DETAIL "B"
LOOP-TO-CONTROLLER SPLICE

TYPE I LOOP



DETAIL "A"
LOOP-TO-LOOP SPLICE

PRE-FORMED LOOP



DETAIL "B"
LOOP-TO-CONTROLLER SPLICE

LOOP DETECTOR SPLICE

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

(2) WCSMW 30/100 HEAT SHRINK TUBE, MINIMUM LENGTH 3" (75 mm), UNDERWATER GRADE.

(3) WCS 200/750 HEAT SHRINK TUBE, MINIMUM LENGHT 6" (150 mm), UNDERWATER GRADE.

(4) NO. 14 2/C TWISTED, SHIELDED CABLE.

(5) LOOP CONDUCTOR WITH FLEXIBLE PLASTIC TUBE.

(6) PRE-FORMED LOOP

(7) XL POLYOLEFIN 2 CONDUCTOR BREAKOUT SEALS.

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DEPARTMENT OF TRANSPORTATION

DISTRICT ONE
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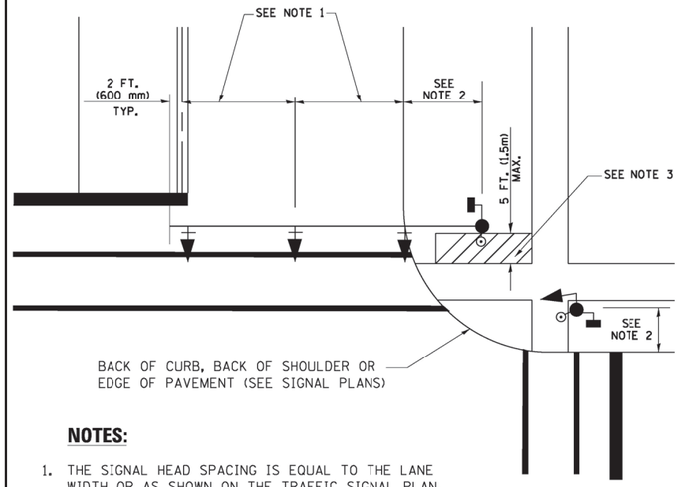
TRAFFIC SIGNAL MAST ARM AND SIGNAL POST

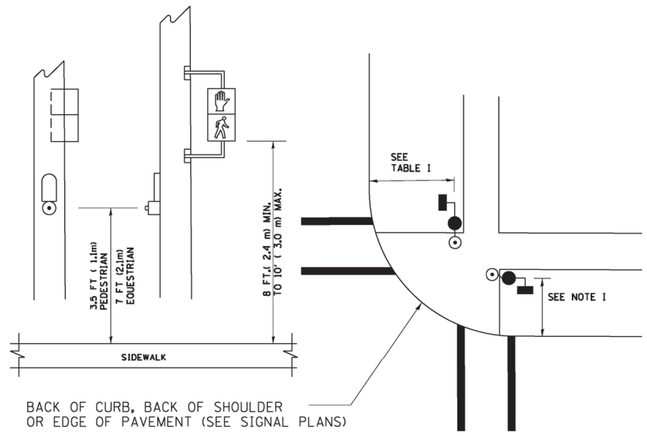
MAST ARM MOUNTED SIGNALS IN EXISTING, PROPOSED OR FUTURE SIDEWALK/BICYCLE PATH AREA. INTERSECTION SHOWN WITH PEDESTRIAN SIGNALS AND PEDESTRIAN PUSHBUTTON DETECTORS.



NOTES:

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

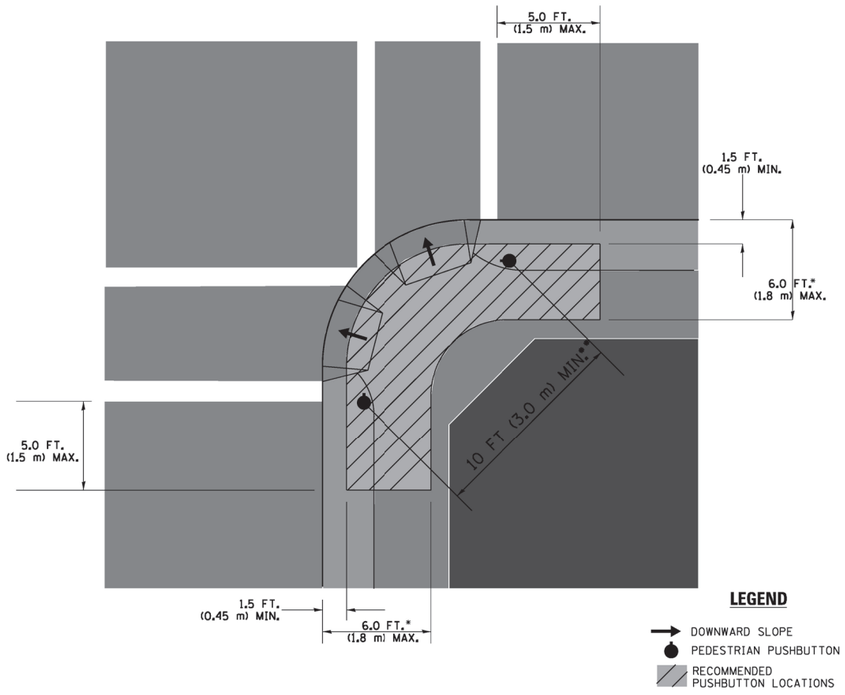
PEDESTRIAN SIGNAL POST AND PEDESTRIAN PUSH BUTTON POST



NOTES:

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

RECOMMENDED PUSHBUTTON LOCATIONS



- WHERE THERE ARE CONSTRAINTS THAT MAKE IT IMPRACTICAL TO PLACE THE PEDESTRIAN PUSHBUTTON BETWEEN 1.5 FT (0.45 m) AND 6 FT (1.8 m) FROM THE EDGE OF THE CURB, SHOULDER, OR PAVEMENT, IT SHOULD NOT BE FURTHER THAN 10 FT (3 m) FROM THE EDGE OF CURB, SHOULDER, OR PAVEMENT.

** WHERE THERE ARE CONSTRAINTS ON A PARTICULAR CORNER THAT MAKE IT IMPRACTICAL TO PROVIDE THE 10 FT (3 m) SEPERATION BETWEEN THE TWO PEDESTRIAN PUSHBUTTONS, THE PUSHBUTTONS MAY BE PLACED CLOSER TOGETHER OR ON THE SAME POLE.

NOTES:

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

TRAFFIC SIGNAL EQUIPMENT OFFSET

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

NOTES:

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

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STATE OF ILLINOIS
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326	13-00026-00-CH	KANE	107	78
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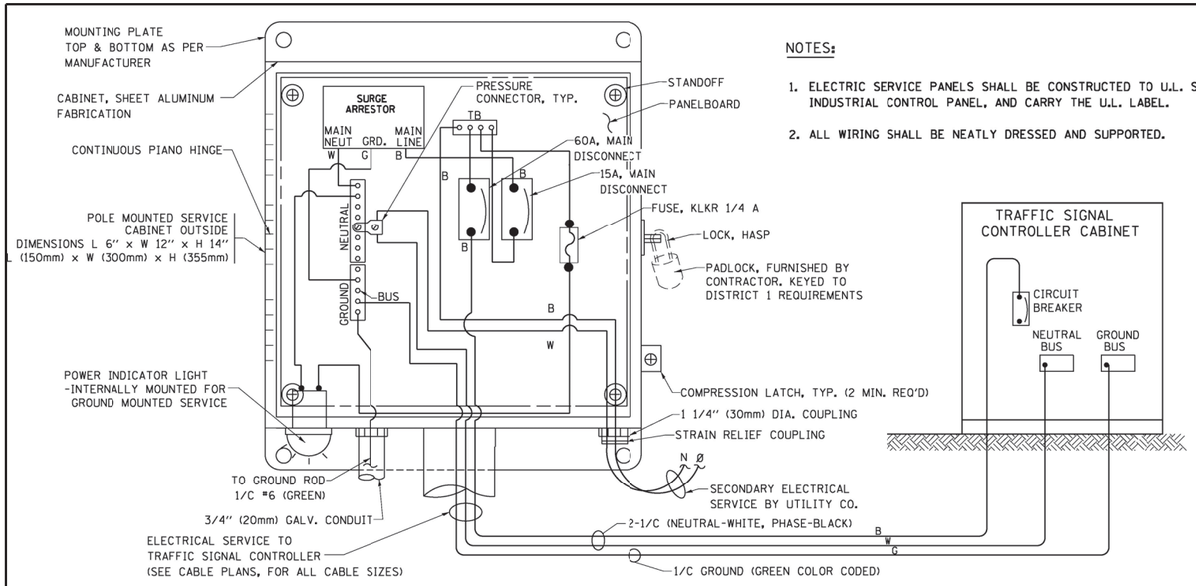


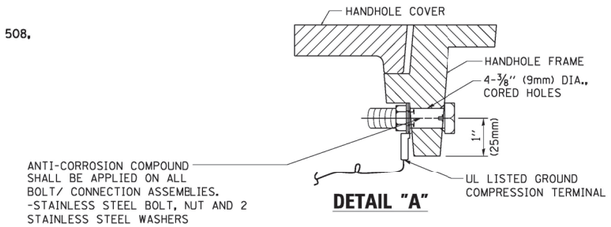
NOTES:

1. ELECTRIC SERVICE PANELS SHALL BE CONSTRUCTED TO U.L. STD 508, INDUSTRIAL CONTROL PANEL, AND CARRY THE U.L. LABEL.
2. ALL WIRING SHALL BE NEATLY DRESSED AND SUPPORTED.

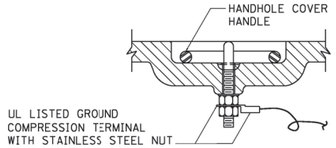
ELECTRICAL SERVICE – PANEL DIAGRAM (TYPICAL FOR POLE AND GROUND MOUNTED SERVICE)

SERVICE INSTALLATION POLE MOUNT (SHOWN)

(NOT TO SCALE)



DETAIL "A"

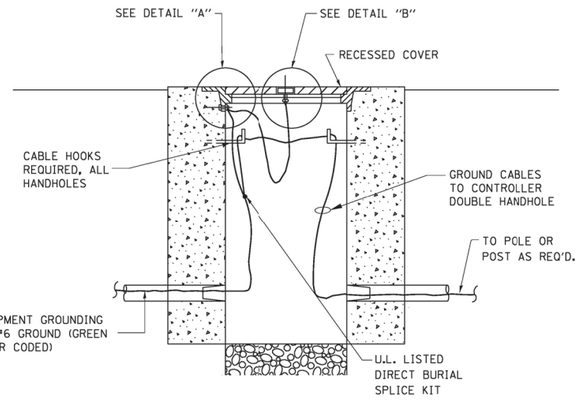


DETAIL "B"

NOTES:

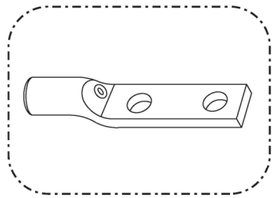
GROUNDING SYSTEM

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



HANDHOLE COVER & FRAME – GROUNDING DETAIL

(NOT TO SCALE)

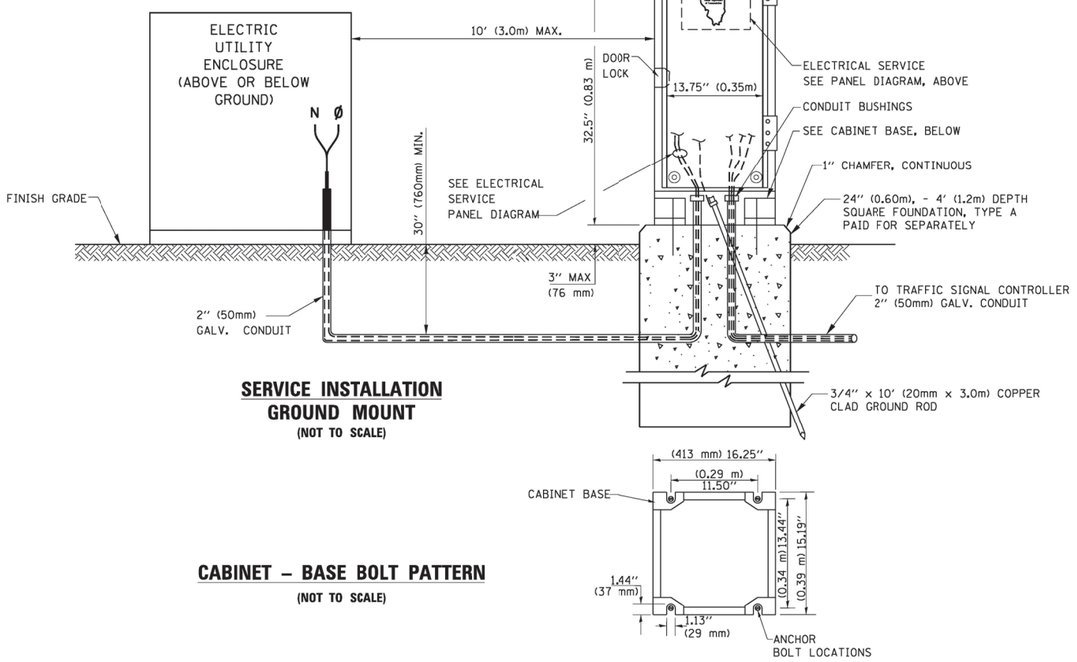


HEAVY-DUTY COMPRESSION TERMINAL

¾" (20mm) HEAVY-DUTY GROUND ROD CLAMP

NOTES:

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

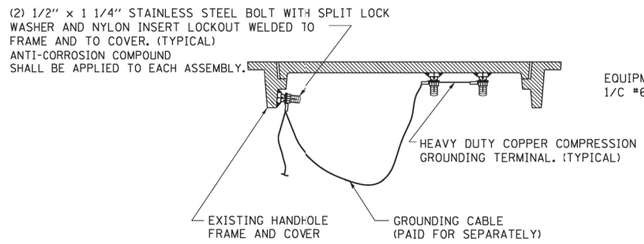


SERVICE INSTALLATION GROUND MOUNT

(NOT TO SCALE)

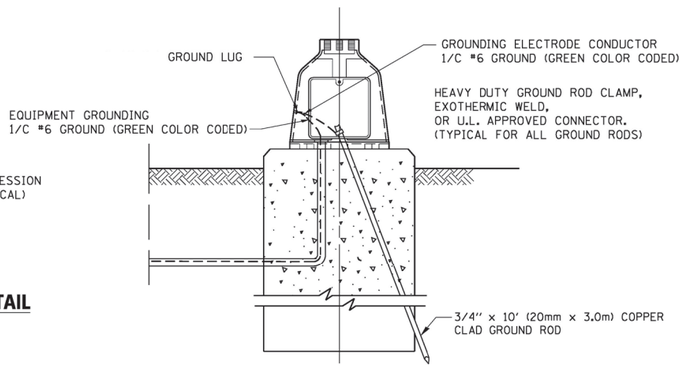
CABINET – BASE BOLT PATTERN

(NOT TO SCALE)



EXISTING HANDHOLE COVER & FRAME – GROUNDING DETAIL

(NOT TO SCALE)



MAST ARM POLE / POST–GROUNDING DETAIL

(NOT TO SCALE)

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	TS-05	CONTRACT NO. 61E52		
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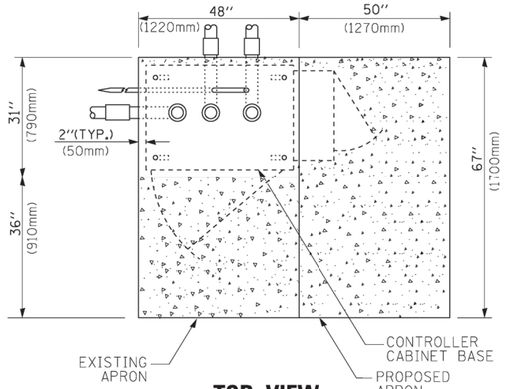
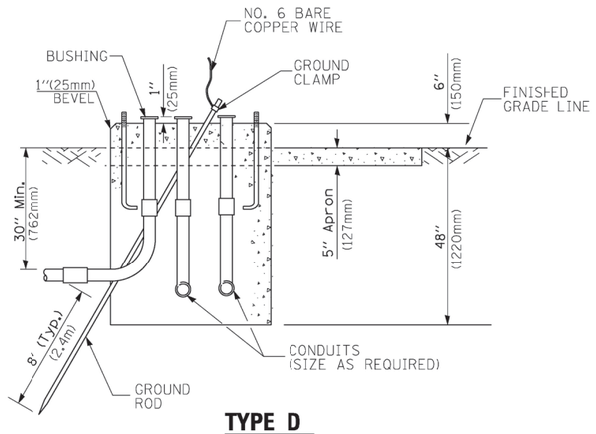
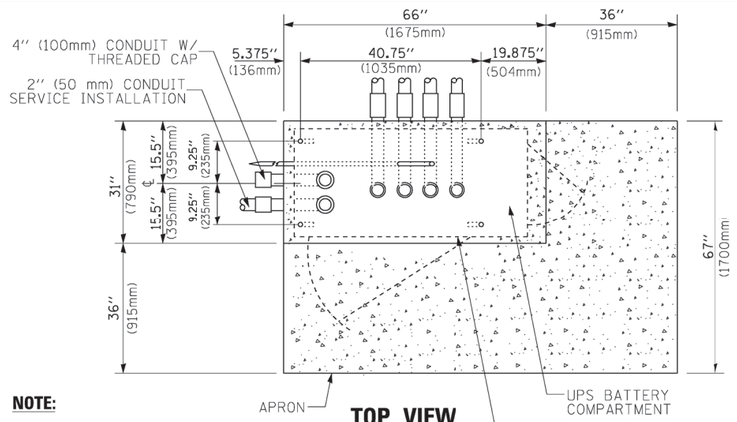


TOP VIEW



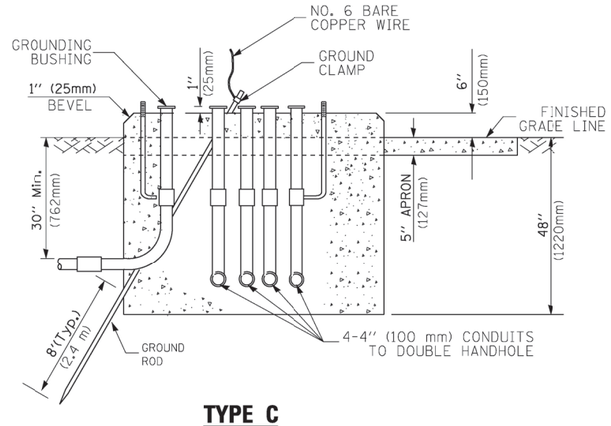
TYPE D
FOR GROUND MOUNTED
CONTROLLER CABINET
AND UPS BATTERY CABINET



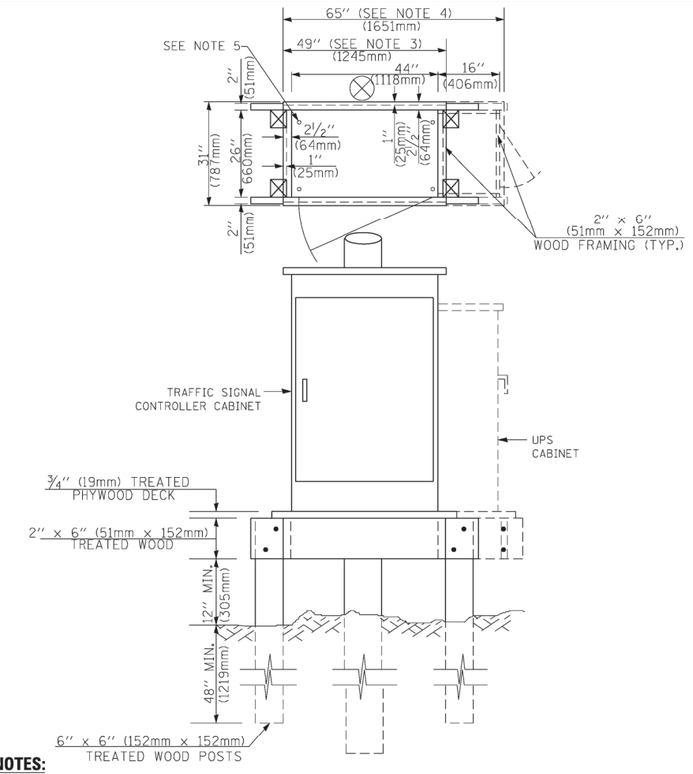
NOTE:

TOP OF FOUNDATION SHALL BE HIGHER THAN TOP OF DOUBLE HANDHOLE

TOP VIEW



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



NOTES:

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

TEMPORARY SIGNAL CONTROLLER
WOOD SUPPORT PLATFORM

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

CABLE SLACK

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

VERTICAL CABLE LENGTH

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

DEPTH OF FOUNDATION

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

NOTES:

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

DEPTH OF MAST ARM FOUNDATIONS, TYPE E

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52 Wheeler Road
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630.466.6700 / www.eeiweb.com

VILLAGE OF SUGAR GROVE
10 S. MUNICIPAL DRIVE
SUGAR GROVE, IL 60554

DESIGNED	CMF	REVISED	03/21/2018
DRAWN	JPS	REVISED	-
CHECKED	TVW	REVISED	-
DATE	08/11/2017	REVISED	-

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

DISTRICT ONE
STANDARD TRAFFIC SIGNAL DESIGN DETAILS

SCALE: N.T.S. | SHEET NO. 7 OF 9 SHEETS | STA. | TO STA.

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
326	13-00026-00-CH	KANE	107	80
	TS-05	CONTRACT NO. 61E52		
	ILLINOIS FED. AID PROJECT			

Plotted: 5/30/2018 11:59:25 AM By: jschmidt
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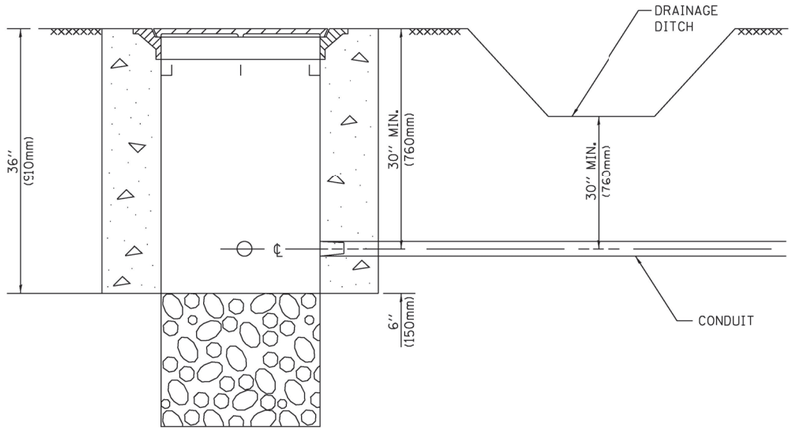
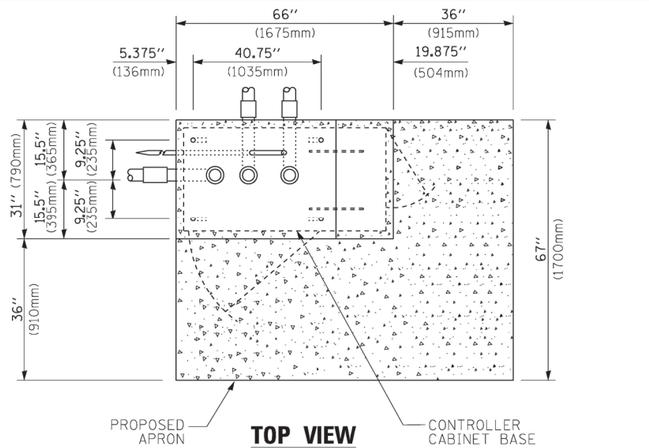


NOTES:

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

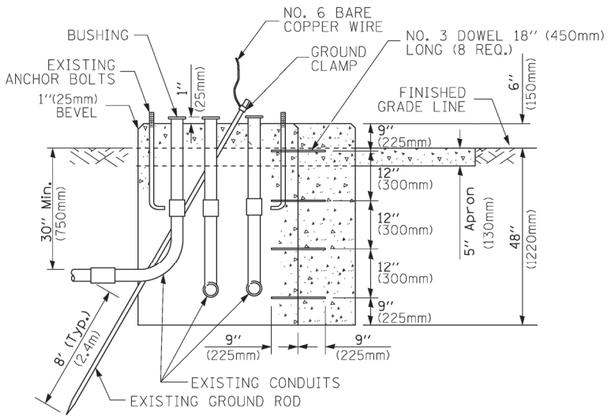
HANDHOLE WITH MINIMUM CONDUIT DEPTH

(NOT TO SCALE)



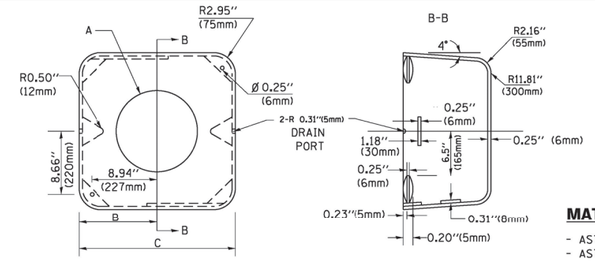
TOP VIEW

(NOT TO SCALE)



MODIFY EXISTING TYPE "D" FOUNDATION TO TYPE "C" FOUNDATION

(NOT TO SCALE)



MATERIAL:

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

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

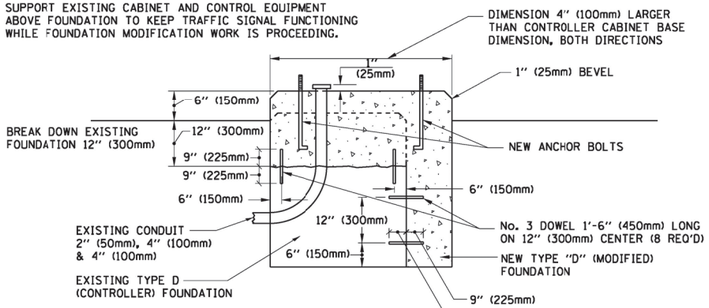
SHROUD

NOTES:

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

NOTE:

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



MODIFY EXISTING TYPE "D" FOUNDATION

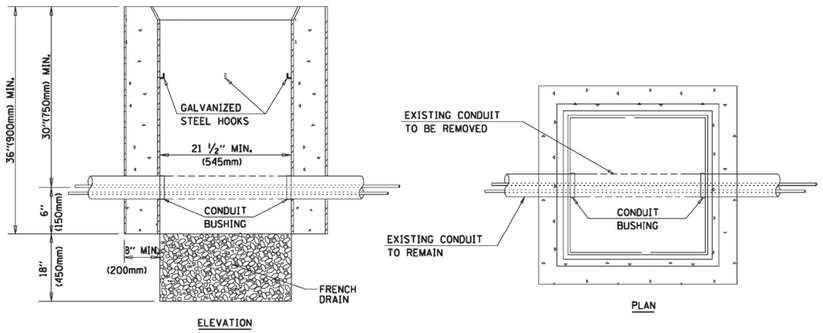
POST CAP MOUNT **MAST ARM MOUNT**

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

NOTES:

1. ALL ELECTRICAL ITEMS, EXCEPT ITEMS #2 AND #11 SHALL BE ALUMINUM OR GALVANIZED
2. WHEN POST MOUNTING IS SPECIFIED, ITEM #9 SHALL NOT BE REQUIRED. THE DETECTION UNIT SHALL BE MOUNTED DIRECTLY ON TOP OF THE CAP BY DRILLING AND TAPPING A 3/4 "(19 mm) HOLE WITH PIPE THREADS. THE POST CAP SHALL EITHER BE SCREWED TO THE TOP OF THE POST OR A MINIMUM OF 3 TIGHTENING SCREWS SHALL BE REQUIRED ON EACH CAP.

EMERGENCY VEHICLE DETECTOR WITH CONFIRMATION BEACON MOUNTING DETAIL



NOTES:

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

HANDHOLE TO INTERCEPT EXISTING CONDUIT

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52 Wheeler Road
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SUGAR GROVE, IL 60554

DESIGNED - CMF	REVISED - 03/21/2018	
DRAWN - JPS	REVISED -	
CHECKED - TVW	REVISED -	
DATE - 08/11/2017	REVISED -	

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

DISTRICT ONE
STANDARD TRAFFIC SIGNAL DESIGN DETAILS

SCALE: N.T.S. | SHEET NO. 8 OF 9 SHEETS | STA. | TO STA.

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
326	13-00026-00-CH	KANE	107	81
	TS-05	CONTRACT NO. 61E52		
	ILLINOIS FED. AID PROJECT			

Plotted: 5/30/2018 11:59:35 AM By: jschmidt
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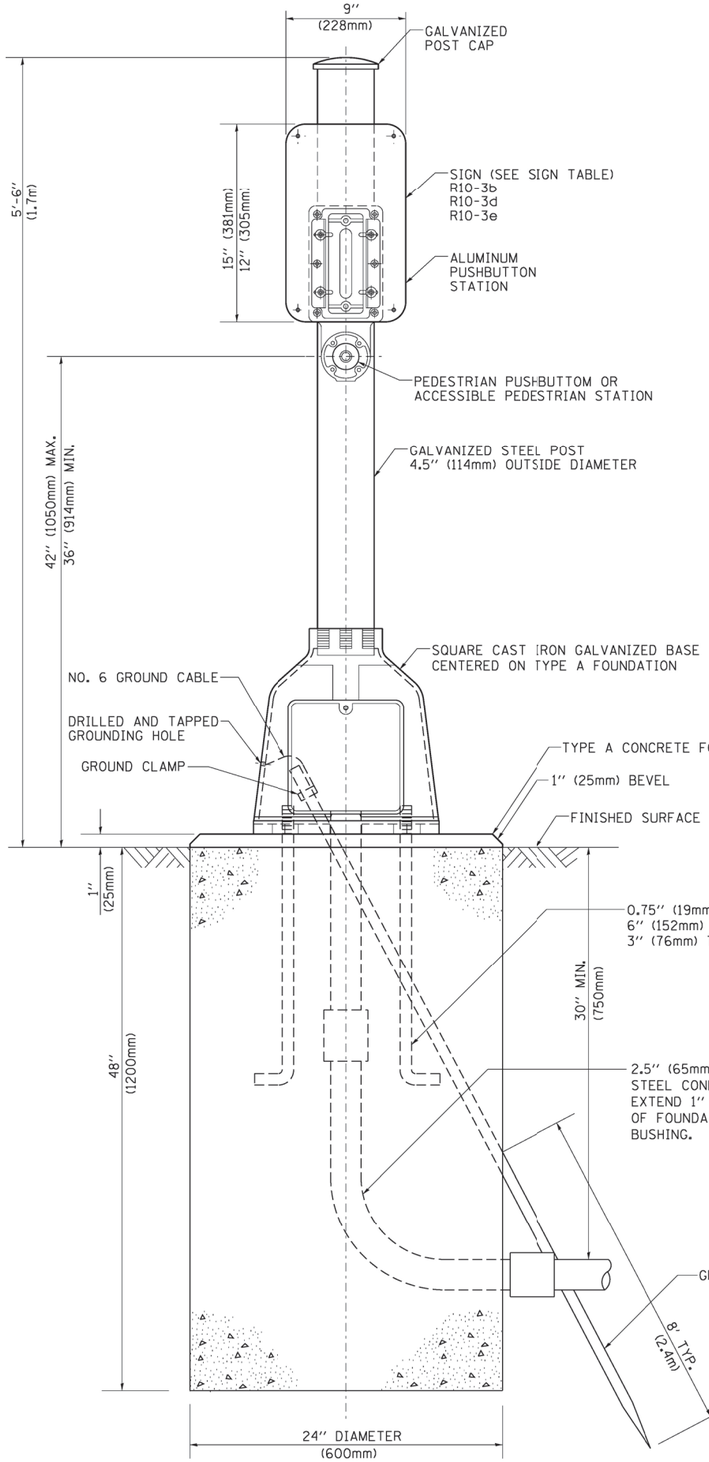
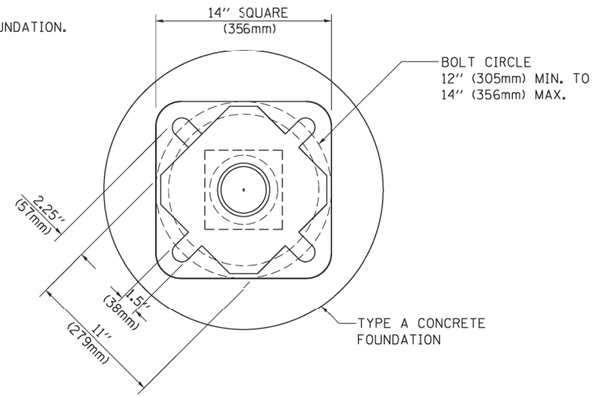


SIGN TABLE

SIGN	DIMENSIONS
R10-3b	9'' (228mm) X 12'' (305mm)
R10-3d	9'' (228mm) X 12'' (305mm)
R10-3e	9'' (228mm) X 15'' (381mm)



BOLT PATTERN

PEDESTRIAN PUSH BUTTON POST, TYPE A

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Path: H:\SDSKPro\SG108-Micro\Dgn Final Eng\SG108-Cvr.dgn

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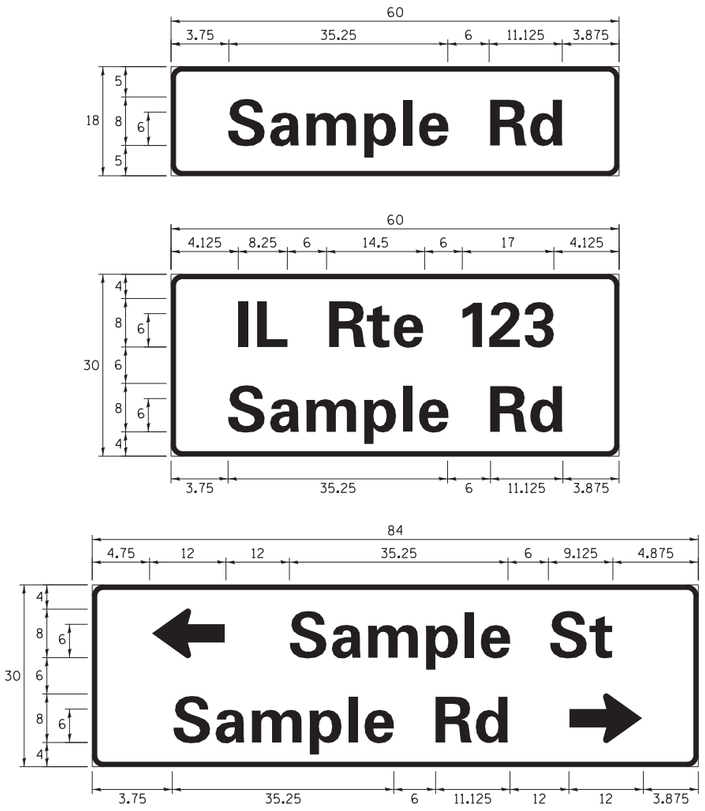
STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

DISTRICT ONE
STANDARD TRAFFIC SIGNAL DESIGN DETAILS

SCALE: N.T.S. | SHEET NO. 9 OF 9 SHEETS | STA. | TO STA.

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
326	13-00026-00-CH	KANE	107	82
	TS-05	CONTRACT NO. 61E52		
	ILLINOIS FED. AID PROJECT			

SIGN PANEL – TYPE 1 OR TYPE 2



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

ALL DIMENSIONS ARE IN INCHES EXCEPT NOTED OTHERWISE

COMMON STREET NAME ABBREVIATIONS AND WIDTHS

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

GENERAL NOTES

1. WHERE MAST ARM MOUNTED STREET NAME SIGNS ARE SPECIFIED, THE MAST ARM ASSEMBLY AND POLES SHALL BE DESIGNED TO SUPPORT THE LOADINGS CALLED FOR ON STANDARDS 877001, 877002, 877006, 877011 AND 877012, AS APPLICABLE, PLUS TWO (2) SIGN PANELS 2'-6" x 8'-0" MOUNTED AS SHOWN. THE DESIGN SHALL BE IN ACCORDANCE WITH THE REQUIREMENTS OF THE CURRENT "STANDARD SPECIFICATIONS FOR STRUCTURAL SUPPORTS FOR HIGHWAY SIGNS, LUMINAIRES, AND TRAFFIC SIGNALS" AS PUBLISHED BY THE AMERICAN ASSOCIATION OF STATE HIGHWAY AND TRANSPORTATION OFFICIALS FOR 80 M.P.H. WIND VELOCITY.

2. ALL SIGNS SHALL CONSIST OF A WHITE LEGEND AND BORDER (TYPE ZZ SHEETING) ON A GREEN BACKGROUND (TYPE ZZ SHEETING)

3. THE SIGN LENGTH SHALL BE IN 6-INCH INCREMENTS, BUT THE OVERALL LENGTH SHALL NOT EXCEED 8'-0". ALL BORDERS SHALL BE ¾" WIDE. CORNER RADIUS SHALL BE 1-7/8". THE SPACING BETWEEN THE WORDS SHOULD BE 6", IF POSSIBLE, BUT MAY BE REDUCED TO 5" WHEN SPACING IS CRITICAL. A MINIMUM OF 2-1/2" SHALL BE INCLUDED BETWEEN THE WORD AND THE RIGHT AND LEFT EDGES OF THE SIGN.

4. A PREFERRED METHOD FOR THE SIGN DESIGN IS TO USE SERIES "D" LETTER ON A ONE-LINE SIGN 18" IN HEIGHT AND A MAXIMUM OF 8'-0" IN WIDTH. IF SERIES "D" DOES NOT FIT ON A 8"-0" SIGN, THEN SERIES "C" SHOULD BE TRIED. IF SERIES "C" DOES NOT FIT ON A 8'-0" SIGN, A 30" HIGH TWO-LINE SIGN CAN BE USED. THE CROSSROAD DESIGNATION AS TO STREET, AVENUE, ETC. SHOULD BE SPELLED OUT ON THE SECOND LINE, IF THE ABBREVIATION CANNOT FIT ON THE FIRST LINE.

5. LED ILLUMINATED STREET NAME SIGNS CAN BE USED IN PLACE OF REGULAR SIGN PANELS BUT ANY SPECIAL WORDING AND SYMBOLOGY MUST BE APPROVED BY THE DEPARTMENT. GENERAL DESIGN REQUIREMENT AS LISTED ABOVE (COLOR, FONT, SIZE, ETC.) MUST BE FOLLOWED.

6. SIGNFIX ALUMINUM CHANNEL FRAMING SYSTEM SHALL BE USED FOR ALL SIGNS ATTACHED TO SIGNAL POLES AND POSTS.

LOCAL SUPPLIERS:

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

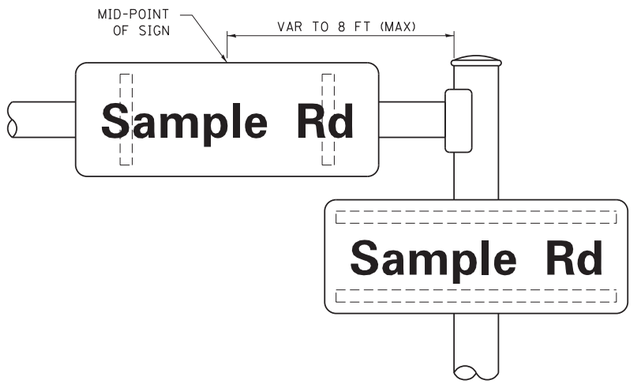
PARTS LISTING:

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

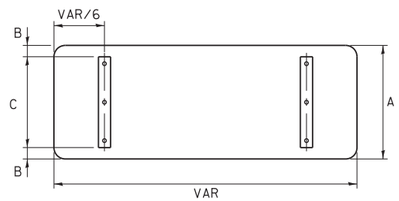
OTHER BRANDS OF MOUNTING HARDWARE ARE ACCEPTABLE, BASED UPON THE DEPARTMENT'S APPROVAL AND COMPATIBILITY WITH THE CHANNEL/BRACKET OF THE ABOVE PRODUCT.

MOUNTING LOCATION

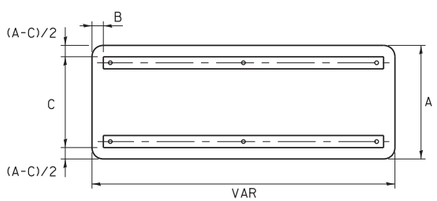
ARM OR POLE MOUNTED



SUPPORTING CHANNELS



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



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

STANDARD ALPHABETS SPACING CHART

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

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

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STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

DISTRICT ONE
MAST ARM MOUNTED STREET NAME SIGNS

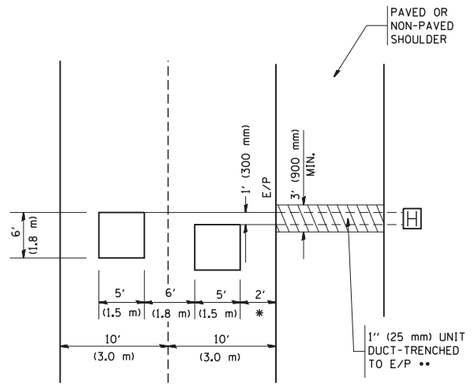
SCALE: | SHEET OF SHEETS | STA. | TO STA.

F.A.P RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
326	13-00026-00-CH	KANE	107	83
	TS-02	CONTRACT NO. 61E52		
	ILLINOIS FED. AID PROJECT			

ts02.dgn 7/31/2015 11:37:05 AM User=drivakosgn

LOOPS NEXT TO SHOULDERS

PROVIDE A PAVEMENT REPLACEMENT NOTE WHICH SHOULD EQUAL 3' (900 mm) X WIDTH OF PAVED SHOULDER.

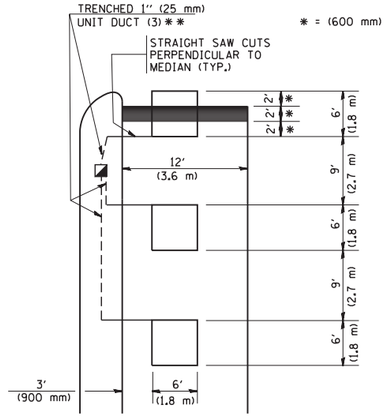


* = (600 mm)

** UNIT DUCT IS TO BE SHOWN ON PLAN SHEETS BUT SHALL NOT BE INCLUDED IN THE PAY ITEMS.

LEFT TURN LANES WITH MEDIANS
VOLUME DENSITY ("FAR OUT" DETECTION) ON SAME APPROACH
(PROTECTED / PERMITTED LEFT TURN PHASING)

HANDHOLE LOCATION MAY VARY DEPENDING ON GEOMETRICS AND DESIGN OF TRAFFIC SIGNALS. HEAVY-DUTY HANDHOLES TO BE USED WHEN THE MEDIAN IS MOUNTABLE. REFER TO STANDARD 814001 TO ENSURE THAT HANDHOLE FITS IN MEDIAN.

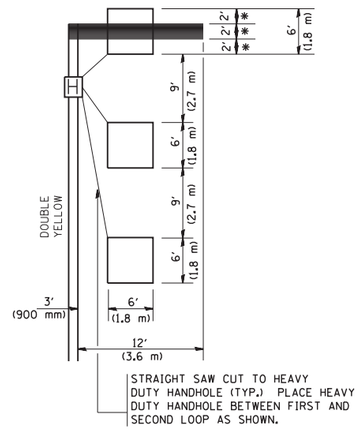


** UNIT DUCT IS TO BE SHOWN ON PLAN SHEETS BUT SHALL NOT BE INCLUDED IN THE PAY ITEMS.

NOTE: DUAL LEFT TURNS NOT SHOWN REFER TO PLAN SHEET FOR DETECTOR LOOP REPLACEMENT

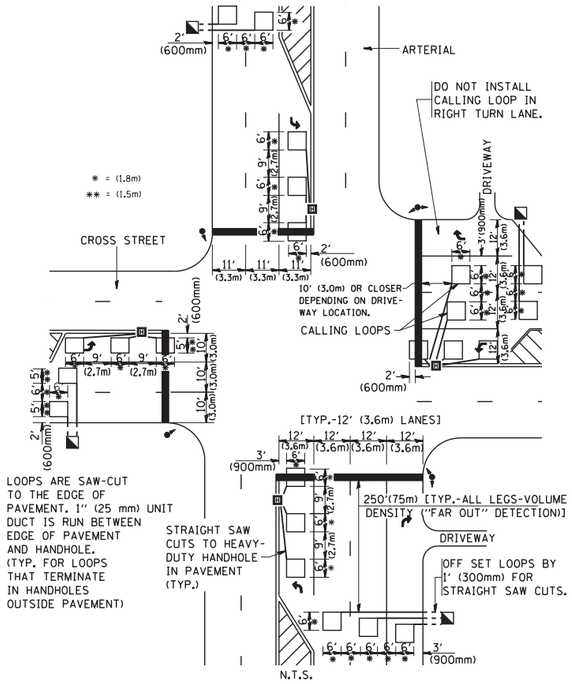
LEFT TURN LANES WITHOUT MEDIANS
VOLUME DENSITY ("FAR OUT" DETECTION) ON SAME APPROACH
(PROTECTED / PERMITTED LEFT TURN PHASING)

* = (600 mm)



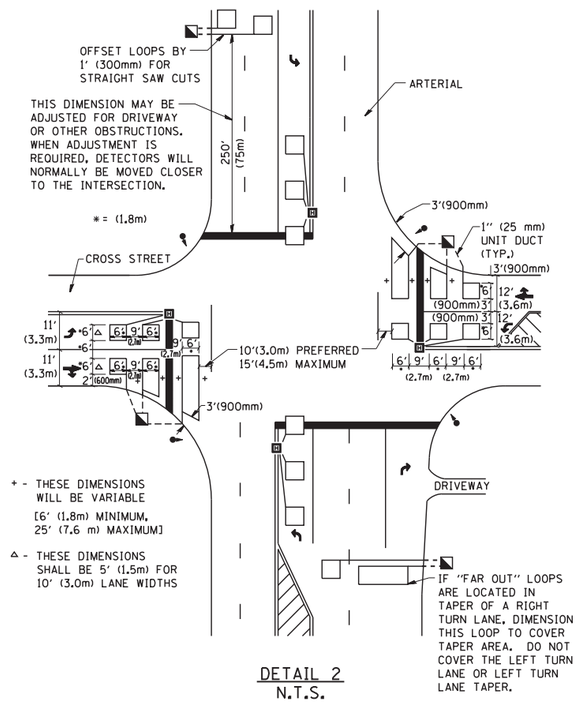
NOTE: DUAL LEFT TURNS NOT SHOWN REFER TO PLAN SHEET FOR DETECTOR LOOP REPLACEMENT

ARTERIAL-VOLUME DENSITY ("FAR OUT" DETECTION)
CROSS STREET-VOLUME DENSITY ("FAR OUT" DETECTION)



DETAIL 1
N.T.S.

ARTERIAL-VOLUME DENSITY ("FAR OUT" DETECTION)
CROSS STREET-NON VOLUME DENSITY ("UPTIGHT" PRESENCE DETECTION)



DETAIL 2
N.T.S.

NOTES:

VEHICLES LOOP DETECTORS

* ALL LEAD IN CABLE SHALL BE TWO CONDUCTOR NO. 14 TWISTED, SHIELDED.
* EACH DETECTOR LOOP SHALL HAVE ITS OWN SAW CUT FROM THE LOOP TO THE EDGE OF PAVEMENT OR TO A HANDHOLE IN THE PAVEMENT.
* EACH DETECTOR LOOP SHALL HAVE ITS OWN ONE INCH (25 mm) UNIT DUCT BETWEEN THE EDGE OF PAVEMENT AND THE FIRST HANDHOLE OR JUNCTION BOX. EACH UNIT DUCT RUN SHALL BE SHOWN ON THE PLANS BY THE DESIGNER, BUT SHALL NOT BE PAID FOR SEPARATLY. THIS ITEM IS INCIDENTAL TO THE PAY ITEM FOR DETECTOR LOOPS.
* ONE DIMENSION OF ALL DETECTOR LOOPS SHALL BE SIX FEET (1.8 m)
* EACH LANE OF NON-LOCKING, PRESENCE DETECTION AND EACH LANE OF A DOUBLE LEFT TURN LANE REQUIRES A SEPARATE INDUCTIVE LOOP DETECTOR AND LEAD IN CABLE.
* WHEN NON-LOCKING, PRESENCE DETECTION IS USED, MORE THAN ONE LOOP PER LANE IS REQUIRED BEHIND THE STOP BAR (i.e. 1-1/2, 1-3/4, 2).
* WHEN SYSTEM LOOPS ARE REQUIRED ON AN APPROACH OF AN INTERSECTION, THE LOOPS USED FOR VOLUME DENSITY AND INTERSECTION TIMING SHALL ALSO BE USED AS SYSTEM DETECTORS. EACH ONE OF THESE TYPE OF LOOPS REQUIRES A SEPARATE TWO CONDUCTOR NO. 14 TWISTED SHIELDED CABLE AND A SEPARATE INDUCTIVE LOOP DETECTOR WHEN NEW CONTROLLERS ARE UTILIZED. THE DESIGNER SHALL LABEL THESE TYPES OF LOOPS AS "INTERSECTION AND SAMPLING (SYSTEM) DETECTORS" ON THE SIGNAL LAYOUT, THE INTERCONNECT PLAN AND THE SYSTEM CABLE PLAN. WHEN AN EXISTING CONTROLLER IS UTILIZED FOR THIS TYPE OF DETECTION, THE PAY ITEM "INDUCTIVE LOOP DETECTOR WITH SYSTEM OUTPUT" SHOULD BE USED.

PLACEMENT OF DETECTORS

THE FOLLOWING FIGURES REPRESENT THE MOST COMMON DETECTOR LOOP LOCATIONS AND SIZES. ADJUSTMENTS WILL BE NECESSARY FOR SPECIFIC GEOMETRIC CONSIDERATIONS.

LOCATIONS AND DEMENSIONS OF DETECTOR LOOPS ARE REQUIRED ON ALL SIGNAL LAYOUT PLAN SHEETS.

"FAR OUT" DETECTION REFERS TO LOCKING, PRESENCE TYPE DETECTION LOCATED IN THRU LANES, RIGHT TURN LANES, AND RIGHT TURN LANE TAPER AREAS (IF APPLICABLE), USUALLY 250' (75 m) IN ADVANCE OF STOP BARS. "UPTIGHT" DETECTION REFERS TO NON-LOCKING PRESENCE TYPE DETECTION LOCATED IN ALL LANES AND 10'-15' (3.0 m-4.5 m) BEHIND THE CROSSING STREET'S EDGE OF PAVEMENT EXTENDED.

NOTE:

ALL DETAILS AND NOTES SHOWN ARE FROM THE I.D.O.T. DISTRICT 1 TRAFFIC SIGNAL DESIGN GUIDELINES DATED JANUARY 1995

THIS DRAWING HAS BEEN PREPARED TO ASSIST THE RESIDENT ENGINEER FOR ALL ROADWAY RESURFACING OR S.M.A.R.T. PROJECTS WHERE THE DIMENSIONS ARE NOT SHOWN ON THE PLANS AND THE FINAL LOCATIONS FOR CROSSWALKS OR STOP BARS ARE NOT DETERMINED.

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		DRAWN -	REVISED -
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	PLOT DATE = 1/4/2008	DATE -	REVISED -

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

DISTRICT 1 – DETECTOR LOOP INSTALLATION DETAILS FOR ROADWAY RESURFACING

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

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
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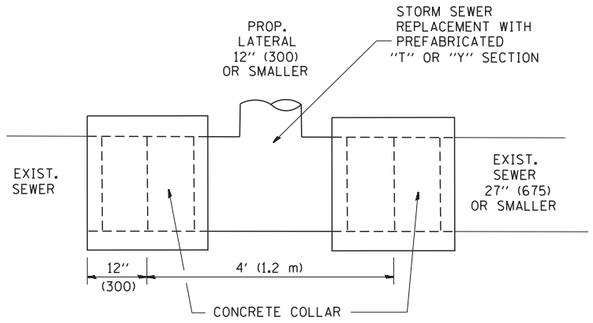
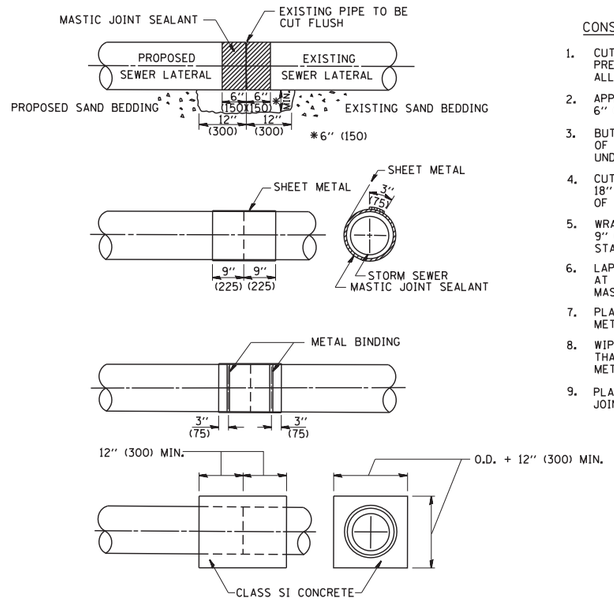
	TS-07	CONTRACT NO. 61E52		
FED. ROAD DIST. NO. 1	ILLINOIS	FED. AID PROJECT		



DETAIL "A"

LATERAL CONNECTION TO EXISTING SEWER
OF 27" (675) OR SMALLER

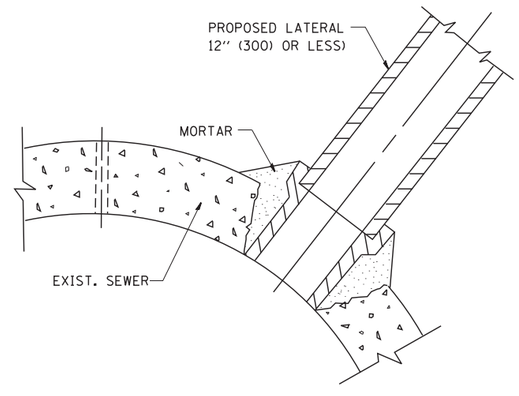


DETAIL "B"

CLASS SI CONCRETE COLLAR

CONSTRUCTION SEQUENCE

1. CUT THE EXISTING END OF THE PIPE SO AS TO PRESENT A FLUSH BUTT JOINT. BRUSH AND CLEAN ALL PIPES.
2. APPLY THE MASTIC JOINT SEALANT TO THE FIRST 6" (150) OF EACH PIPE.
3. BUTT THE PIPES TOGETHER LEAVING A MINIMUM OF 12' x 6' (300 x 150) DEEP EXCAVATION UNDER AND AROUND EACH PIPE END.
4. CUT A PIECE OF SHEET METAL GAGE NO. 19 1.1 (0.0418) 18" (450) WIDE BY THE OUTSIDE CIRCUMFERANCE OF THE PIPE PLUS 3" (75) LONG.
5. WRAP THE SHEET METAL AROUND THE PIPES, 9" (225) ON EACH SIDE OF THE JOINT, STARTING AT THE TOP OF THE PIPE.
6. LAP THE SHEET METAL AT LEAST 3" (75) AT THE TOP OF THE PIPE AND PLACE THE MASTIC JOINT SEALANT BETWEEN THE LAP.
7. PLACE TWO METAL BANDS AROUND THE SHEET METAL AND TIGHTEN.
8. WIPE OFF ANY EXCESS MASTIC JOINT SEALANT THAT OOZES OUT FROM BETWEEN THE SHEET METAL AND THE PIPES.
9. PLACE CLASS SI CONCRETE AROUND THE JOINT.



DETAIL "C"

PROPOSED LATERAL
CONNECTION TO EXISTING SEWER
OF 30" (750) OR LARGER

NOTES

MATERIAL

MATERIAL USED FOR THE TEE OR WYE SECTION SHALL BE COMPATIBLE WITH THE EXISTING STORM SEWER OR THE PROPOSED STORM SEWER.

CONSTRUCTION METHODS

I. THIS WORK SHALL BE CONSTRUCTED IN CONFORMANCE WITH THE APPLICABLE PORTIONS OF SECTION 550 OF THE STANDARD SPECIFICATIONS.

II. CONNECTION TO AN EXISTING STORM SEWER SHALL BE BY EITHER OF THE FOLLOWING METHODS:

A) PROPOSED STORM SEWER CONNECTION TO EXISTING SEWER OF 27" (675) OR SMALLER SEE DETAIL "A" AND "B".

B) PROPOSED STORM SEWER CONNECTION TO EXISTING SEWER OF 30" (750) OR LARGER SEE DETAIL "C".

IF THE EXISTING SEWER PIPE IS CRACKED, BROKEN OR OTHERWISE DAMAGED BY THE CONTRACTOR IN MAKING THE CIRCULAR OPENING, THE CONTRACTOR SHALL REPLACE THAT SECTION OF PIPE WITH PIPE EQUAL AND SIMILAR IN ALL RESPECTS TO THE PIPE IN THE EXISTING SEWER, IN A CAREFUL WORKMANLIKE MANNER, WITHOUT EXTRA COMPENSATION.

GENERAL

CARE MUST BE TAKEN TO PREVENT DEBRIS FROM ENTERING THE SEWER. ALL DEBRIS WHICH ENTERS THE SEWER MUST BE REMOVED. THE SEWER MUST BE LEFT CLEAN AND UNOBSTRUCTED UPON COMPLETION OF THE CONTRACT.

CARE MUST BE TAKEN TO PREVENT ANY PART OF THE NEW PIPE CONNECTION FROM PROJECTING INTO THE EXISTING SEWER.

BASIS OF PAYMENT

TEE OR WYE CONNECTIONS SHALL BE PAID FOR AT THE CONTRACT UNIT PRICE EACH FOR STORM SEWER TEE OR WYE OF THE TYPE AND SIZE SPECIFIED IN THE PLANS, THIS PRICE SHALL INCLUDE ALL EXCAVATION OF THE TRENCH, REMOVAL OF THE EXISTING STORM SEWER, FURNISHING AND INSTALLING THE SPECIFIED TEE OR WYE SECTION, FURNISHING AND INSTALLING THE REQUIRED CONCRETE COLLAR, AND ALL OTHER MATERIAL NECESSARY TO COMPLETE THIS WORK AS SHOWN AND SPECIFIED.

REMOVAL AND REINSTALLATION OF EXISTING STORM SEWER ADJACENT TO THE PROPOSED TEE OR WYE SECTION, FOR THE PURPOSE OF FACILITATING THE INSTALLATION OF THE TEE OR WYE SECTION, WILL NOT BE PAID FOR SEPARATELY BUT SHALL BE INCLUDED IN THE UNIT PRICE BID FOR THE WORK.

TRENCH BACKFILL, EXCAVATION IN ROCK AND REMOVAL AND REPLACEMENT OF UNSUITABLE MATERIAL BELOW PLAN BEDDING GRADE WILL BE PAID FOR SEPARATELY.

CONCRETE COLLAR FOR CONNECTING A PROPOSED STORM SEWER TO AN EXISTING STORM SEWER WILL NOT BE PAID PAID FOR SEPARATELY BUT SHALL BE INCLUDED IN THE COST OF THE PROPOSED STORM SEWER.

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

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	PLOT DATE = 1/4/2008	DATE - 07-25-90	REVISED - R. SHAH 06-12-96

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

DETAIL OF STORM SEWER CONNECTION TO EXISTING SEWER

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

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
326	13-00026-00-CH	KANE	107	85
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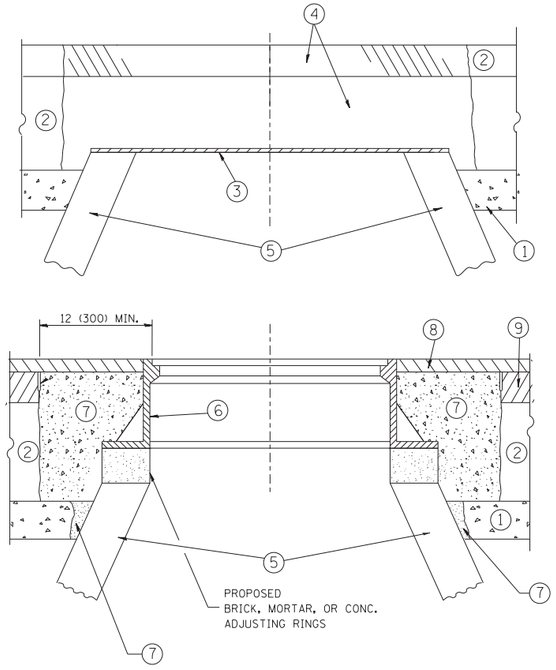
FED. ROAD DIST. NO. 1	ILLINOIS	FED. AID PROJECT		



CONSTRUCTION PROCEDURES

STAGE 1 (BEFORE PAVEMENT MILLING)

A) REMOVE A MINIMUM OF 12 (300) OF THE PAVEMENT FROM AROUND THE STRUCTURE.
B) REMOVE THE EXISTING FRAME AND LID FROM THE STRUCTURE.
C) COVER THE STRUCTURE OPENING WITH A 36 (900) DIAMETER METAL PLATE.
D) BACKFILL WITH CRUSHED STONE AND A MINIMUM 1½ (40) THICK HMA SURFACE MIX APPROVED BY THE ENGINEER.

STAGE 2 (AFTER PAVEMENT MILLING)

A) REMOVE THE HMA SURFACE MIX AND CRUSHED STONE.
B) INSTALL THE FRAME AND LID; ADJUST THE FRAME TO ITS FINAL SURFACE ELEVATION.
C) THE SURROUNDING SPACE SHALL BE FILLED WITH CLASS PP-1* CONCRETE TO THE ELEVATION OF THE SURFACE OF THE EXISTING BASE COURSE OR THE BINDER COURSE.

*UNLESS OTHERWISE SPECIFIED IN THE PLANS.

THE PROCEDURE EXPLAINED ABOVE SHALL CONFORM TO THE APPLICABLE PORTIONS OF SECTIONS 353, 406, 602, AND 603 OF THE STANDARD SPECIFICATIONS EXCEPT THAT "THE CONTRACTOR SHALL ADJUST THE STRUCTURES TO THE FINISHED PAVEMENT ELEVATION NO MORE THAN 5 CALENDAR DAYS PRIOR TO PLACEMENT OF THE FINAL LIFT OF SURFACE UNLESS APPROVED BY THE ENGINEER."

LEGEND

1. SUB-BASE GRANULAR MATERIAL
2. EXISTING PAVEMENT
3. 36 (900) DIAMETER METAL PLATE
4. PROPOSED CRUSHED STONE AND HMA SURFACE MIX
5. EXISTING STRUCTURE
6. FRAME AND LID (SEE NOTES)
7. CLASS PP-1* CONCRETE
8. PROPOSED HMA SURFACE COURSE
9. PROPOSED HMA BINDER COURSE

NOTES:

EXISTING BROKEN FRAMES AND LIDS SHALL BE REMOVED AND DISPOSED OF BY THE CONTRACTOR AND SHALL BE REPLACED AS DIRECTED BY THE ENGINEER. REPLACEMENT FRAMES AND LIDS WILL BE PAID FOR IN ACCORDANCE WITH ARTICLE 109.04 OF THE STANDARD SPECIFICATIONS UNLESS A SEPARATE PAY ITEM HAS BEEN PROVIDED.

IF THE EXISTING LIDS ARE OPEN, THE FRAME WILL BE ADJUSTED TO THE ELEVATION OF THE MILLED PAVEMENT SURFACE PRIOR TO THE MILLING OPERATION. THE FRAME WILL NOT BE REMOVED AND COVERED BY THE METAL PLATE.

CITY OF CHICAGO CASTINGS ARE THE PROPERTY OF THE CITY AND THE CONTRACTOR SHALL NOTIFY THE CITY FOR REMOVAL AND DISPOSITION OF THE CASTINGS.

THE METAL PLATE USED TO COVER THE STRUCTURE SHALL REMAIN THE PROPERTY OF THE CONTRACTOR.

WHEN STRUCTURES ARE TO BE ADJUSTED OR RECONSTRUCTED, THE LOWERING AND RAISING OF THE FRAMES AND LIDS WILL NOT BE PAID FOR SEPARATELY BUT WILL BE INCLUDED IN THE COST OF THE CORRESPONDING PAY ITEM.

LOCATION OF STRUCTURES:

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

BASIS OF PAYMENT:

REMOVING FRAMES AND LIDS ON DRAINAGE AND UTILITY STRUCTURES IN THE PAVEMENT PRIOR TO MILLING, AND ADJUSTING TO FINAL GRADE PRIOR TO PLACING THE SURFACE COURSE, WILL BE PAID FOR AT THE CONTRACT UNIT PRICE EACH FOR "FRAMES AND LIDS TO BE ADJUSTED (SPECIAL)."

THIS WORK WILL NOT BE PAID FOR WHEN DRAINAGE AND UTILITY STRUCTURES ARE SPECIFIED FOR PAYMENT AS STRUCTURE RECONSTRUCTION.

NEW FRAMES AND LIDS, WHEN SPECIFIED, WILL BE PAID FOR SEPARATELY.

DETAILS FOR FRAMES AND LIDS ADJUSTMENT WITH MILLING

ALL DIMENSIONS ARE IN INCHES (MILLIMETERS) UNLESS OTHERWISE SHOWN

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STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

DETAILS FOR
FRAMES AND LIDS ADJUSTMENT WITH MILLING

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

F.A.R RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
326	13-00026-00-CH	KANE	107	86
	BD600-03 (BD-8)	CONTRACT NO. 61E52		
FED. ROAD DIST. NO. 1	ILLINOIS	FED. AID PROJECT		

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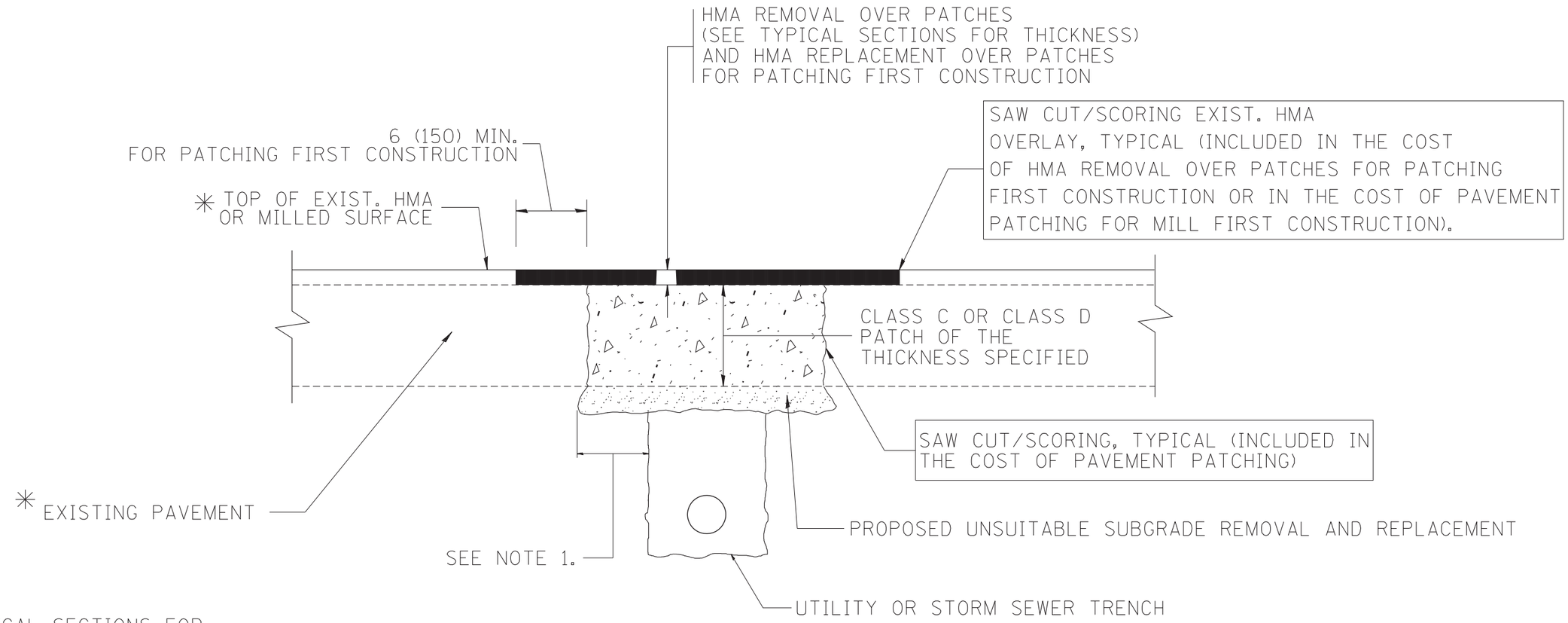

✳ SEE TYPICAL SECTIONS FOR THICKNESS AND MATERIALS

NOTES:

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

SEQUENCE OF CONSTRUCTION (PATCHING FIRST)

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

SEQUENCE OF CONSTRUCTION (MILLING FIRST)

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

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

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	PLOT DATE = 10/27/2008	DATE - 10-25-94	REVISED - K. ENG 10-27-08

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

PAVEMENT PATCHING FOR HMA SURFACED PAVEMENT

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

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
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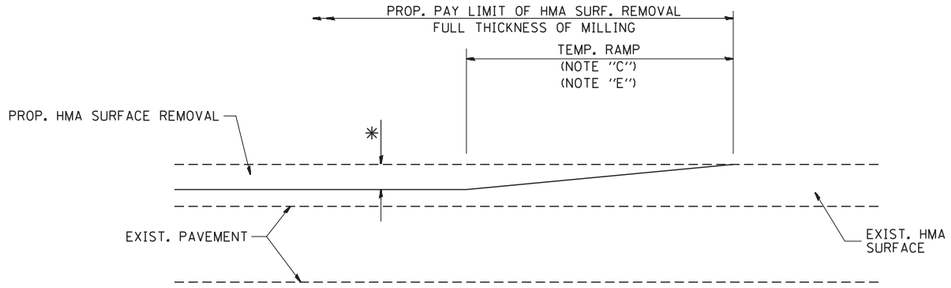
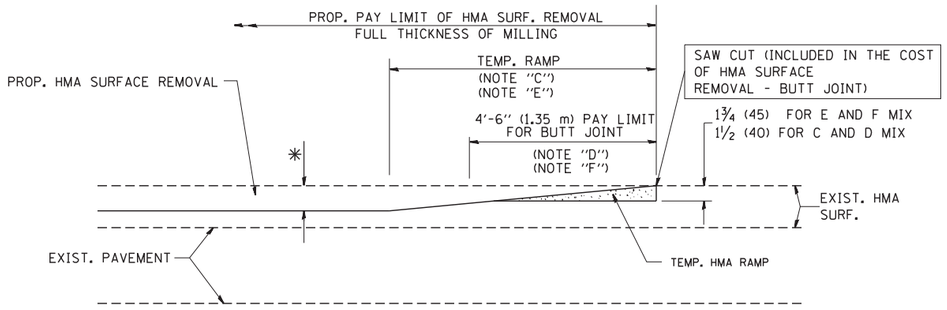
FED. ROAD DIST. NO. 1	ILLINOIS	FED. AID PROJECT		



MILLED TEMPORARY RAMP

(FOR BUTT JOINT AND HMA TAPER SEE DETAIL BELOW)

OPTION 1

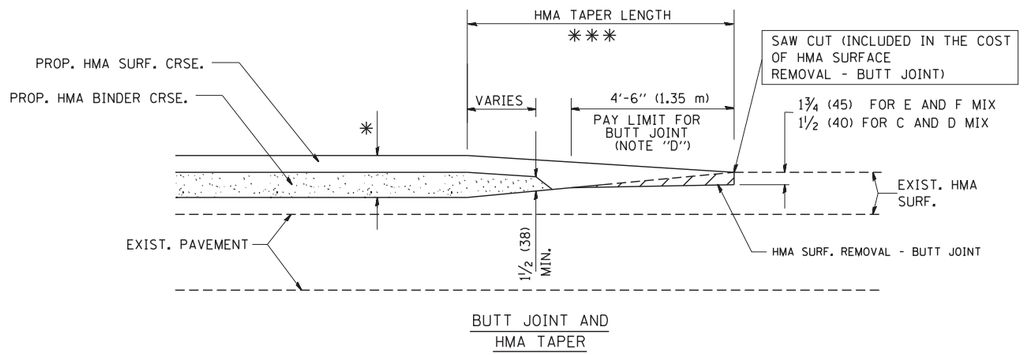


HMA CONSTRUCTED TEMPORARY RAMP

(FOR BUTT JOINT AND HMA TAPER SEE DETAIL BELOW)

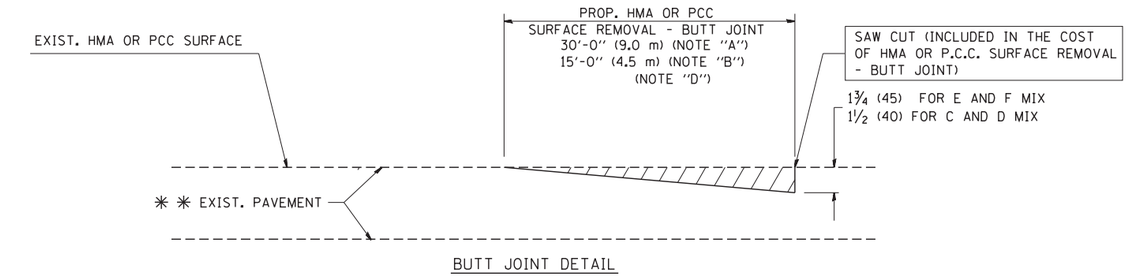
OPTION 2

TYPICAL TEMPORARY RAMP

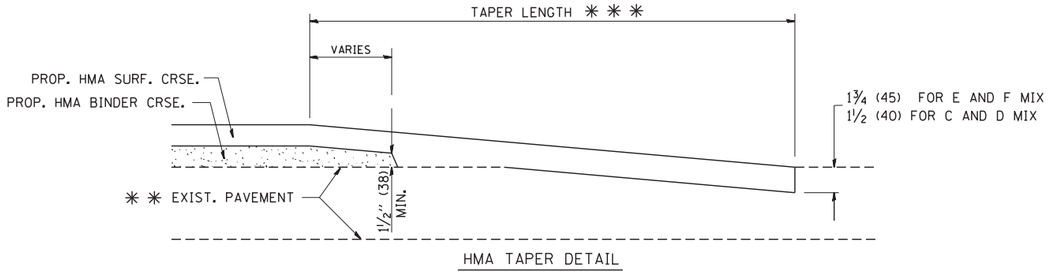


BUTT JOINT AND HMA TAPER

TYPICAL BUTT JOINT AND HMA TAPER FOR MILLING AND RESURFACING



BUTT JOINT DETAIL



HMA TAPER DETAIL

TYPICAL BUTT JOINT AND HMA TAPER FOR RESURFACING ONLY

** PC CONCRETE, HMA OR HMA RESURFACED PAVEMENT.

NOTES

A: MAINLINE ROADWAYS AND MAJOR SIDE ROADS.

B: MINOR SIDE ROADS.

C: THE TEMP. RAMP SHALL BE CONSTRUCTED IMMEDIATELY UPON REMOVAL OF THE EXISTING HMA SURFACE.

D: THE BUTT JOINT SHALL BE CONSTRUCTED IMMEDIATELY PRIOR TO PLACING THE PROPOSED HMA COURSES.

E: TAPER THE TEMP. RAMP AT A RATE OF 3'-0" (900 mm) PER 1 INCH (25 mm) OF MILLING THICKNESS.

F: INSTALLATION AND REMOVAL OF THE 4'-6" (1.35 m) TEMP. RAMP IS INCLUDED IN COST OF HMA SURFACE REMOVAL - BUTT JOINT

G: SEE ARTICLE 406.08 AND 406.14 OF THE STANDARD SPECIFICATIONS FOR "HMA AND/OR PCC SURFACE REMOVAL, BUTT JOINT".

* SEE TYPICAL SECTIONS FOR MILLING THICKNESS.

*** 20'-0" (6.1 m) PER 1 (25) RESURFACING (NOTE "A")
10'-0" (3.0 m) PER 1 (25) RESURFACING (NOTE "B")

BASIS OF PAYMENT:

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

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

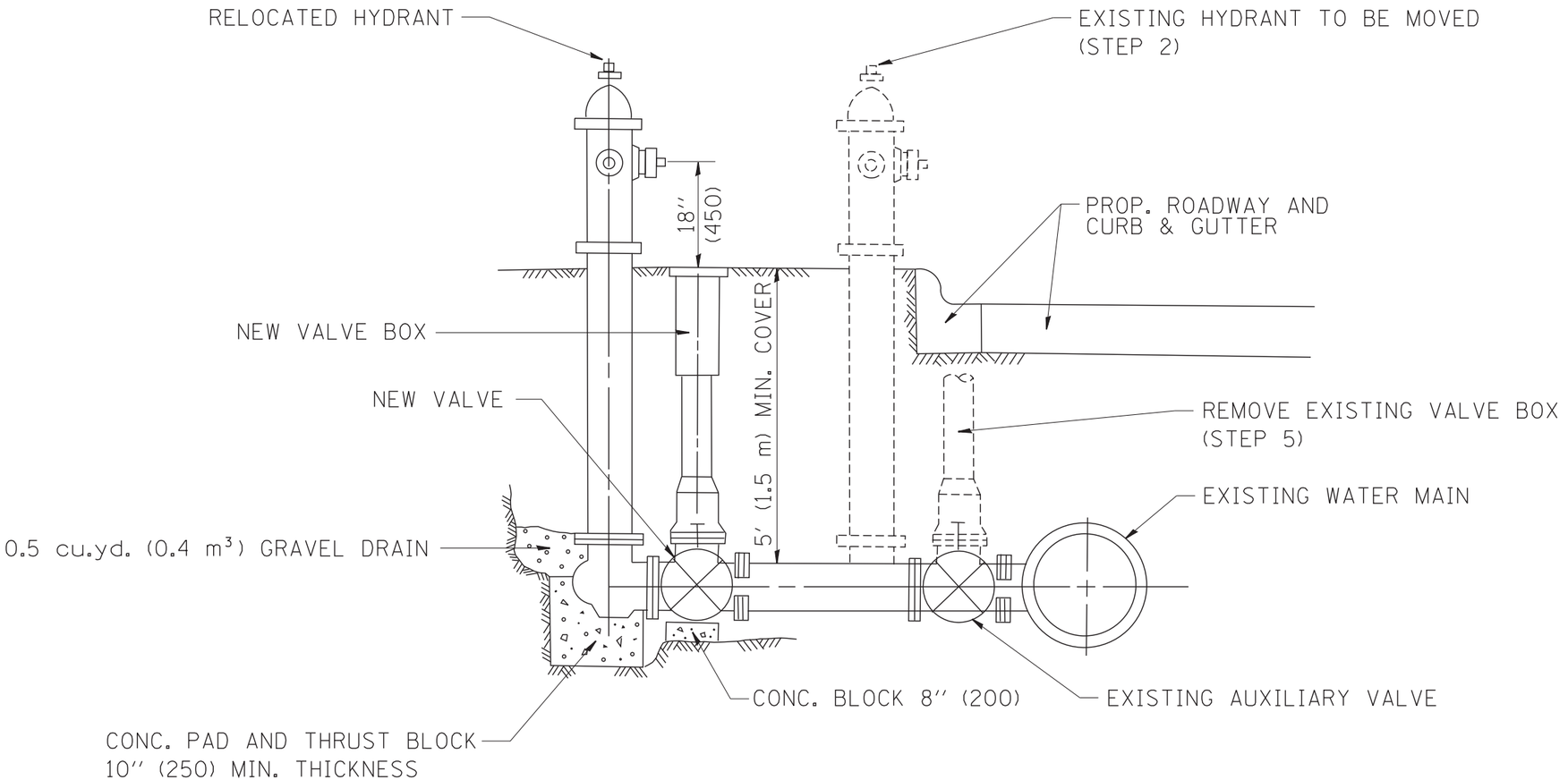
FILE NAME = W:\diststd\22x34\bd32.dgn	USER NAME = gaglianobt	DESIGNED - M. DE YONG	REVISED - R. SHAH 10-25-94
		DRAWN -	REVISED - A. ABBAS 03-21-97
	PLOT SCALE = 50.0000 ' / IN.	CHECKED -	REVISED - M. GOMEZ 04-06-01
	PLOT DATE = 1/4/2008	DATE - 06-13-90	REVISED - R. BORO 01-01-07

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

BUTT JOINT AND HMA TAPER DETAILS

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

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
2580	16-00081-00-PV	DUPAGE	107	88
	BD400-05 BD32	CONTRACT NO. 61E52		
FED. ROAD DIST. NO. 1	ILLINOIS	FED. AID PROJECT		



SEQUENCE OF CONSTRUCTION:

1. CLOSE EXISTING VALVE.
2. REMOVE EXISTING HYDRANT.
3. INSTALL HYDRANT EXTENSION AND NEW VALVE.
4. RELOCATE EXISTING HYDRANT.
5. OPEN EXISTING VALVE, REMOVE BOX.
6. BACKFILL.
7. FLUSH AND TEST FOR CHLORIDE RESIDUAL AND PROVIDE TEST.

ALL WORK TO BE DONE IN ACCORDANCE WITH ARTICLE 564 OF THE STANDARD SPECIFICATIONS. NEW VALVE AND BOX SHALL BE SAME MAKE AND MODEL AS EXISTING.

FIRE HYDRANT TO BE MOVED

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

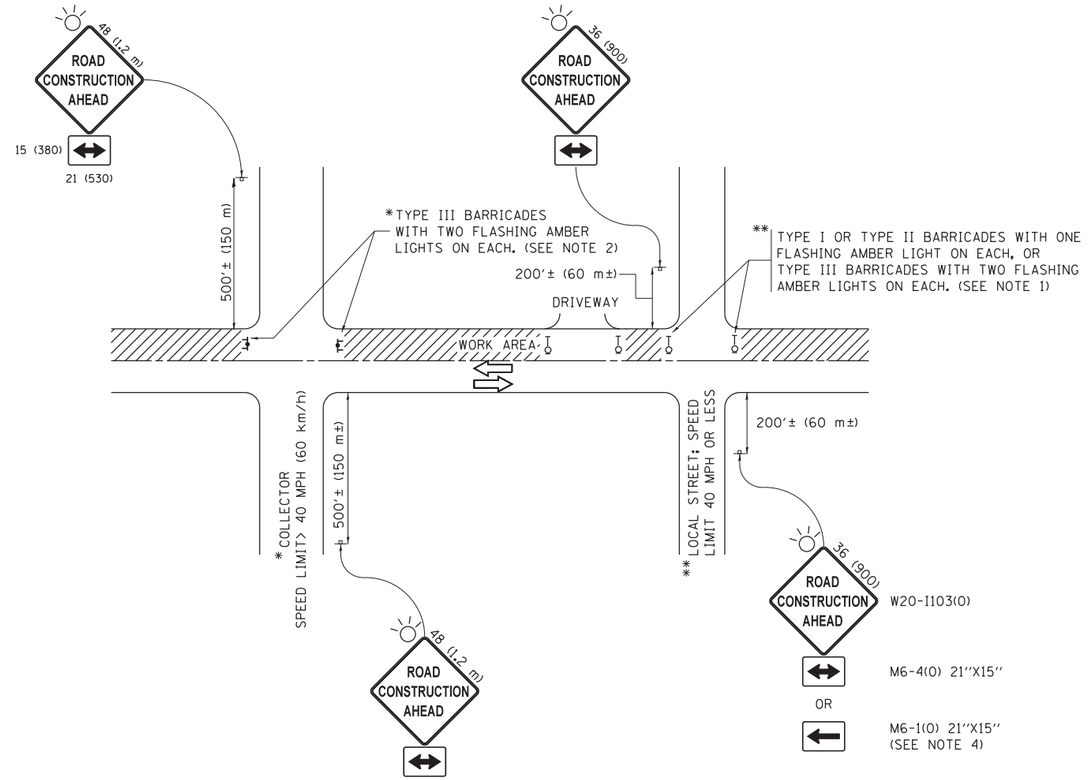
FILE NAME = W:\diststd\22x34\bd36.dgn	USER NAME = gaglianobt	DESIGNED -	REVISED - R. SHAH 09-09-94
		DRAWN -	REVISED - R. SHAH 10-25-94
	PLOT SCALE = 50.0000 '/ IN.	CHECKED -	REVISED -
	PLOT DATE = 1/4/2008	DATE -	REVISED -

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

FIRE HYDRANT TO BE MOVED

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

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
326	13-00026-00-CH	KANE	107	89
	BD-36	CONTRACT NO. 61E52		
FED. ROAD DIST. NO. 1	ILLINOIS	FED. AID PROJECT		



NOTES:

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

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

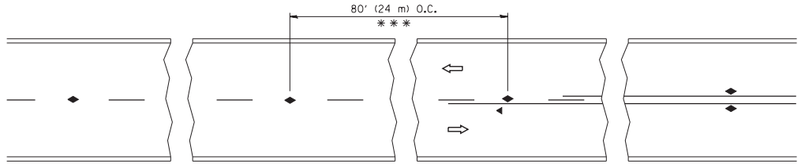
FILE NAME = pw:\\IL084EBIDINTEG.illinois.gov:PWIDOT\Documents\IDOT Offices\District 1\Projects\DistStd\CADData\CADsheets\tc10.dgn	USER NAME = footemj	DESIGNED - L.H.A.	REVISED - A. HOUSEH 10-15-96
			REVISED -T. RAMMACHER 01-06-00
	PLOT SCALE = 50.000 '/ in.	CHECKED -	REVISED - A. SCHUETZE 07-01-13
Default	PLOT DATE = 9/15/2016	DRAWN - DATE - 06-89	REVISED - A. SCHUETZE 09-15-16

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

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

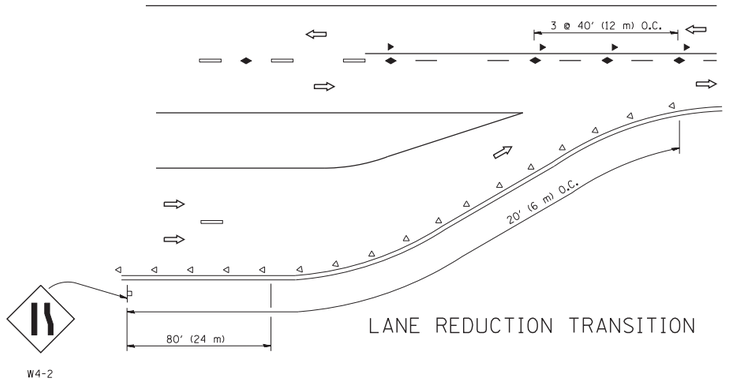
SCALE: NONE | SHEET 1 OF 1 SHEETS | STA. | TO STA.

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
326	13-00026-00-CH	KANE	107	90
	TC-10	CONTRACT NO. 61E52		
	ILLINOIS FED. AID PROJECT			

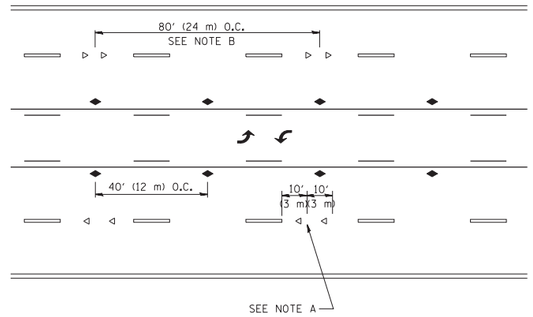


* * * REDUCE TO 40' (12 m) O.C. ON CURVES WITH POSTED OR ADVISORY SPEED 45 M.P.H. (70 km/h) OR LESS.

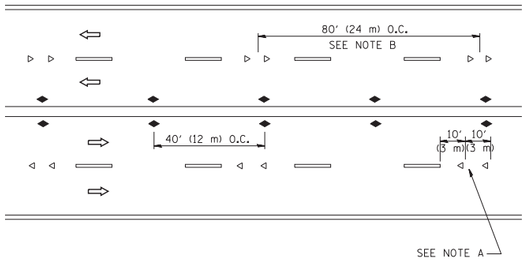
TWO-LANE/TWO-WAY



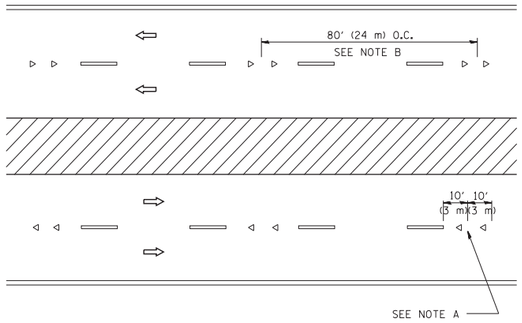
LANE REDUCTION TRANSITION



TWO-WAY LEFT TURN



MULTI-LANE/UNDIVIDED



MULTI-LANE/DIVIDED

GENERAL NOTES

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

SYMBOLS

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

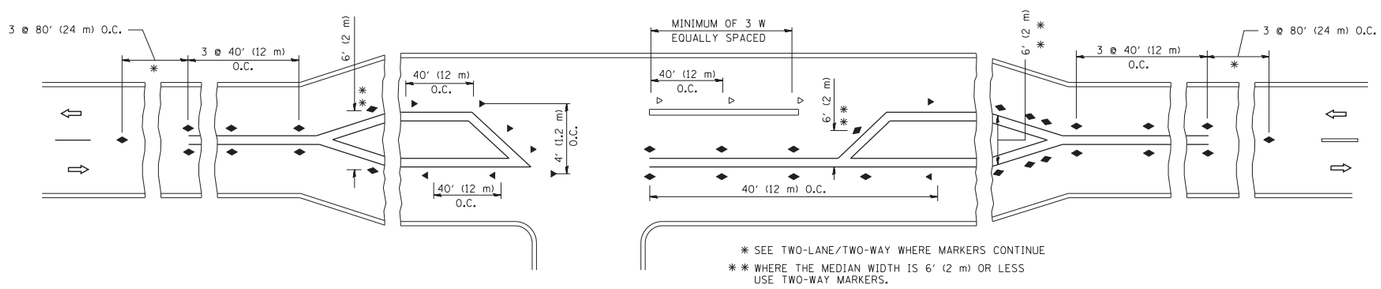
LANE MARKER NOTES

A. USE DOUBLE LANE LINE MARKERS SPACED AS SHOWN.

B. REDUCE TO 40' (12 m) O.C. ON CURVES WHERE ADVISORY SPEEDS ARE 10 M.P.H (20 km/h) LOWER THAN POSTED SPEEDS.

DESIGN NOTES

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



* SEE TWO-LANE/TWO-WAY WHERE MARKERS CONTINUE

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

LEFT TURN

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

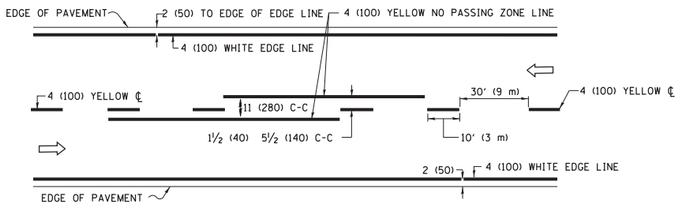
FILE NAME = c:\pw_work\pwidot\leysa\d0108315\tc11.dgn	USER NAME = leysa	DESIGNED -	REVISED - T. RAMMACHER 09-19-94
		DRAWN -	REVISED - T. RAMMACHER 03-12-99
	PLOT SCALE = 50.000 ' / IN.	CHECKED -	REVISED - T. RAMMACHER 01-06-00
	PLOT DATE = 3/2/2011	DATE -	REVISED - C. JUCIUS 09-09-09

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

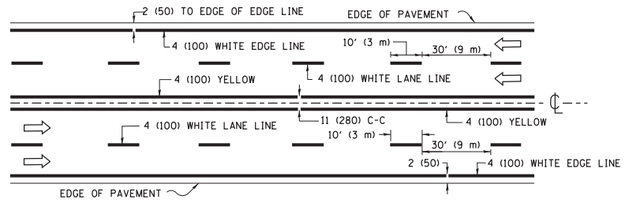
TYPICAL APPLICATIONS
RAISED REFLECTIVE PAVEMENT MARKERS (SNOW-PLOW RESISTANT)

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

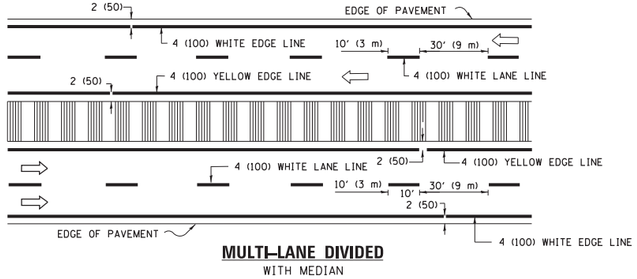
F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
326	13-00026-00-CH	KANE	107	91
	TC-11	CONTRACT NO. 61E52		
FED. ROAD DIST. NO. 1	ILLINOIS	FED. AID PROJECT		



2–LANE ROADWAY

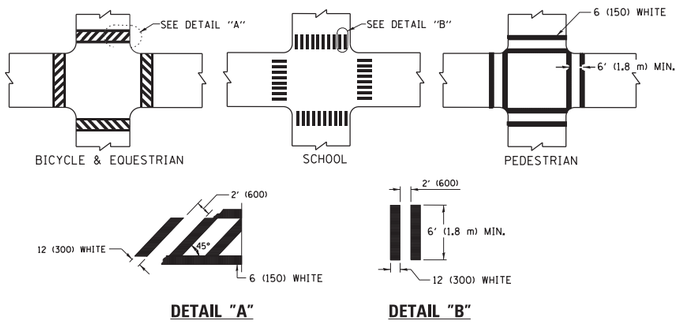


MULTI–LANE UNDIVIDED



MULTI–LANE DIVIDED
WITH MEDIAN

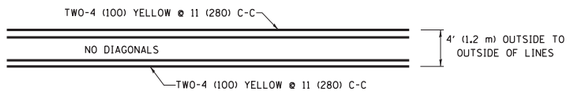
TYPICAL LANE AND EDGE LINE MARKING



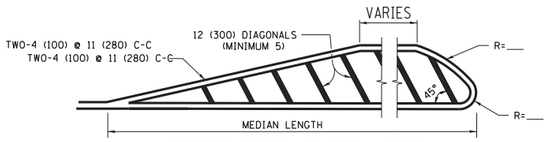
DETAIL "A" **DETAIL "B"**

TYPICAL CROSSWALK MARKING

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



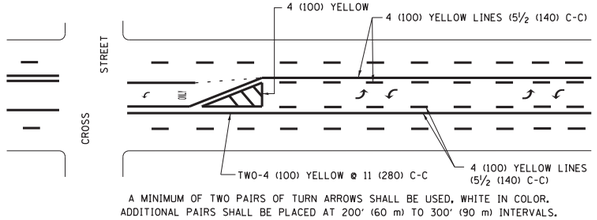
4' (1.2 m) WIDE MEDIANS ONLY



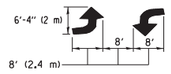
FOR MEDIAN LENGTHS WHERE DIAGONAL SPACING CANNOT BE ATTAINED, USE 5 (FIVE) EQUALLY SPACED DIAGONAL LINES.

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

MEDIANS OVER 4' (1.2 m) WIDE

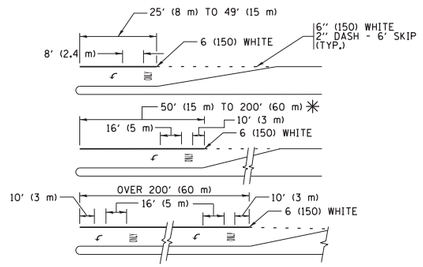


A MINIMUM OF TWO PAIRS OF TURN ARROWS SHALL BE USED, WHITE IN COLOR. ADDITIONAL PAIRS SHALL BE PLACED AT 200' (60 m) TO 300' (90 m) INTERVALS.



MEDIAN WITH TWO–WAY LEFT TURN LANE

TYPICAL PAINTED MEDIAN MARKING

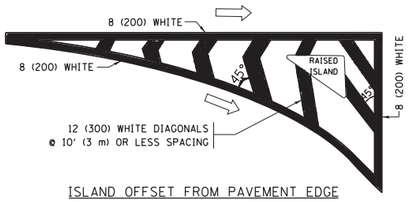


FULL SIZE LETTERS 8' (2.4 m) AND ARROWS SHALL BE USED.
↰ AREA = 15.6 SQ. FT. (1.5 m^2) **ONLY** AREA = 20.8 SQ. FT. (1.9 m^2)

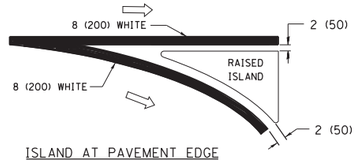
✳ TURN LANES IN EXCESS OF 400' (120 m) IN LENGTH MAY HAVE AN ADDITIONAL SET OF ARROW - "ONLY" INSTALLED MIDWAY BETWEEN THE OTHER TWO SETS OF ARROW - "ONLY".

TYPICAL LEFT (OR RIGHT) TURN LANE

TYPICAL TURN LANE MARKING

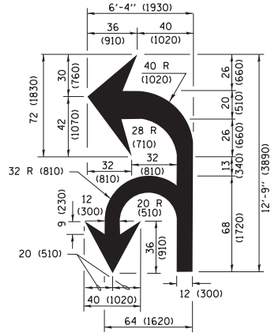


ISLAND OFFSET FROM PAVEMENT EDGE

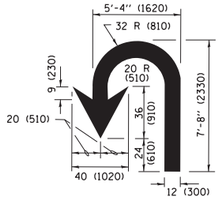


ISLAND AT PAVEMENT EDGE

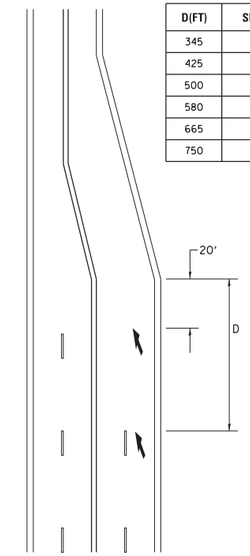
TYPICAL ISLAND MARKING



COMBINATION LEFT AND U–TURN



U–TURN



LANE REDUCTION TRANSITION

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

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

TYPE OF MARKING	WIDTH OF LINE	PATTERN	COLOR	SPACING /REMARKS
CENTERLINE ON 2 LANE PAVEMENT	4 (100)	SKIP-DASH	YELLOW	10' (3 m) LINE WITH 30' (9 m) SPACE
CENTERLINE ON MULTI-LANE UNDIVIDED PAVEMENT	2 ⊠ 4 (100)	SOLID	YELLOW	11 (280) C-C
NO PASSING ZONE LINES: FOR ONE DIRECTION FOR BOTH DIRECTIONS	4 (100) 2 ⊠ 4 (100)	SOLID SOLID	YELLOW YELLOW	5½ (140) C-C FROM SKIP-DASH CENTERLINE 11 (280) C-C OMIT SKIP-DASH CENTERLINE BETWEEN
LANE LINES	4 (100) 5 (125) ON FREEWAYS	SKIP-DASH SKIP-DASH	WHITE WHITE	10' (3 m) LINE WITH 30' (9 m) SPACE
DOTTED LINES (EXTENSIONS OF CENTER, LANE OR TURN LANE MARKINGS)	SAME AS LINE BEING EXTENDED	SKIP-DASH	SAME AS LINE BEING EXTENDED	2' (600) LINE WITH 6' (1.8 m) SPACE
EDGE LINES	4 (100)	SOLID	YELLOW-LEFT WHITE-RIGHT	OUTLINE MEDIANS IN YELLOW
TURN LANE MARKINGS	6 (150) LINE; FULL SIZE LETTERS & SYMBOLS (8' (2.4m))	SOLID	WHITE	SEE TYPICAL TURN LANE MARKING DETAIL
TWO WAY LEFT TURN MARKING	2 ⊠ 4 (100) EACH DIRECTION 8' (2.4m) LEFT ARROW	SKIP-DASH AND SOLID IN PAIRS	YELLOW WHITE	10' (3 m) LINE WITH 30' (9 m) SPACE FOR SKIP-DASH; 5½ (140) C-C BETWEEN SOLID LINE AND SKIP-DASH LINE SEE TYPICAL TWO-WAY LEFT TURN MARKING DETAIL
CROSSWALK LINES (PEDESTRIAN) A. DIAGONALS (BIKE & EQUESTRIAN) B. LONGITUDINAL BARS (SCHOOL)	2 ⊠ 6 (150) 12 (300) ⊠ 45° 12 (300) ⊠ 90°	SOLID SOLID SOLID	WHITE WHITE WHITE	NOT LESS THAN 6' (1.8 m) APART 2' (600) APART 2' (600) APART SEE TYPICAL CROSSWALK MARKING DETAILS.
STOP LINES	24 (600)	SOLID	WHITE	PLACE 4' (1.2 m) IN ADVANCE OF AND PARALLEL TO CROSSWALK, IF PRESENT. OTHERWISE, PLACE AT DESIRED STOPPING POINT. PARALLEL TO CROSSROAD CENTERLINE, WHERE POSSIBLE
PAINTED MEDIANS	2 ⊠ 4 (100) WITH 12 (300) DIAGONALS ⊠ 45° NO DIAGONALS USED FOR 4' (1.2 m) WIDE MEDIANS	SOLID	YELLOW: TWO WAY TRAFFIC WHITE: ONE WAY TRAFFIC	11 (280) C-C FOR THE DOUBLE LINE SEE TYPICAL PAINTED MEDIAN MARKING.
GORE MARKING AND CHANNELIZING LINES	8 (200) WITH 12 (300) DIAGONALS ⊠ 45°	SOLID	WHITE	DIAGONALS: 15' (4.5 m) C-C (LESS THAN 30MPH (50 km/h)) 20' (6 m) C-C 30MPH (50 km/h) TO 45MPH (70 km/h)) 30' (9 m) C-C (OVER 45MPH (70 km/h))
RAILROAD CROSSING	24 (600) TRANSVERSE LINES; "RR" IS 6' (1.8 m) LETTERS; 16 (400) LINE FOR "X"	SOLID	WHITE	SEE STATE STANDARD 780001 AREA OF: "R"=3.6 SQ. FT. (0.33 m^2) EACH "X"=54.0 SQ. FT. (5.0 m^2)
SHOULDER DIAGONALS (REQUIRED FOR SHOULDERS ≥ 8')	12 (300) ⊠ 45°	SOLID	WHITE - RIGHT YELLOW - LEFT	50' (15 m) C-C (LESS THAN 30MPH (50 km/h)) 75' (25 m) C-C (30 MPH (50 km/h) TO 45MPH (70 km/h)) 150' (45 m) C-C (OVER 45MPH (70 km/h))
U TURN ARROW	SEE DETAIL	SOLID	WHITE	16.3 SF
2 ARROW COMBINATION LEFT AND U TURN	SEE DETAIL	SOLID	WHITE	30.4 SF

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

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

FILE NAME = pw:\\IL084EBIDINTEG.illinois.gov:PWIDOT\Documents\IDOT Offices\District 1\Projects\DistStds\DRAWN\CADData\CADsheets\tc13.dgn Default	USER NAME = footemj	DESIGNED - EVERS	REVISED - C. JUCIUS 09-09-09
	PLOT SCALE = 50.000 ' / in.	CHECKED -	REVISED - C. JUCIUS 07-01-13
	PLOT DATE = 4/13/2016	DATE - 03-19-90	REVISED - C. JUCIUS 12-21-15 REVISED - C. JUCIUS 04-12-16

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

DISTRICT ONE
TYPICAL PAVEMENT MARKINGS

SCALE: NONE | SHEET 1 OF 1 SHEETS | STA. | TO STA.

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
326	13-00026-00-CH	KANE	107	92
	TC–13	CONTRACT NO. 61E52		
	ILLINOIS FED. AID PROJECT			

tc13.dgn 4/13/2016 2:04:04 PM User=footemj

TURN BAY ENTRANCE AT START OF LANE CLOSURE TAPER

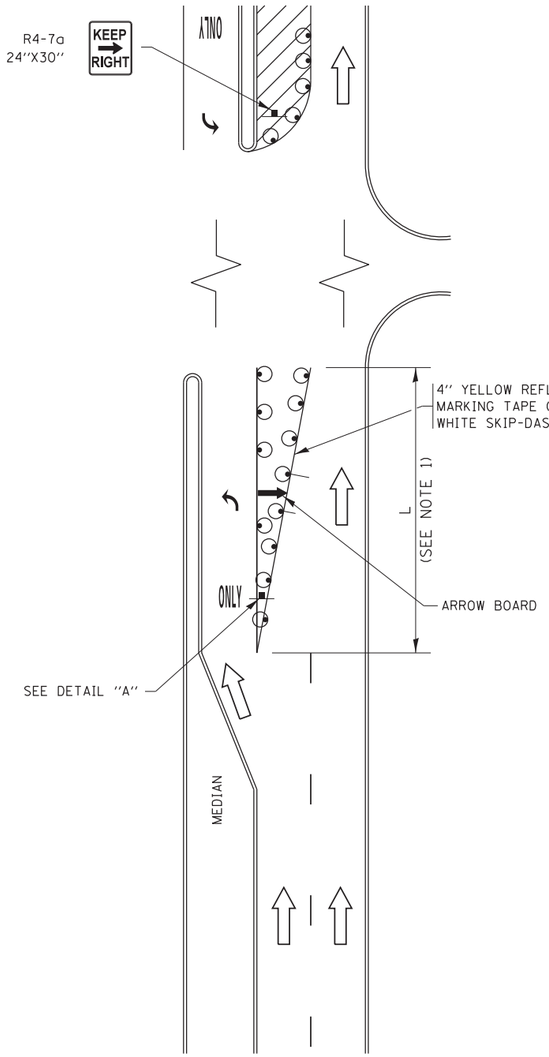


FIGURE 1

LEGEND

- WORK AREA
- LANE OPEN TO TRAFFIC
- ARROW BOARD
- TYPE I OR II BARRICADE OR DRUM WITH STEADY BURN LIGHT
- DRUM WITH STEADY BURN LIGHT
- SIGN ASSEMBLY
- TYPE I OR II CHECK BARRICADE WITH FLASHING LIGHT

NOTES:

1. A) WHEN "L" IS ≤ THE STORAGE LENGTH OF THE TURN LANE (AS SHOWN IN FIG. 1), USE FIGURE 1.

   B) WHEN "L" IS > THE STORAGE LENGTH OF THE TURN LANE OR THE TURN LANE IS WITHIN THE LANE CLOSURE, USE FIGURE 2.

2. CONES MAY BE SUBSTITUTED FOR BARRICADES OR DRUMS AT HALF THE SPACING DURING DAY OPERATIONS. CONES SHALL BE A MINIMUM OF 28 (710) IN HEIGHT.

3. LIGHTS WILL NOT BE REQUIRED ON BARRICADES OR DRUMS FOR DAY OPERATIONS. ALL LIGHTS SHALL BE MONODIRECTIONAL.

4. REFLECTIVE TEMPORARY PAVEMENT MARKINGS SHALL BE PLACED THROUGHOUT THE BARRICADED AREAS OF EACH TURN BAY AS SHOWN WHERE THE CLOSURE TIME IS GREATER THAN FOURTEEN (14) DAYS.

5. THIS APPLICATION ALSO APPLIES WHEN WORK IS BEING PERFORMED IN THE RIGHT LANE(S) AND THE RIGHT TURN BAY IS TO REMAIN OPEN. UNDER THIS CONDITION, "RIGHT TURN LANE" R3-I10OR 24 x 24 (600 x 600) AND M6-2R 21 x 15 (530 x 380) SHALL BE USED.

6. THESE CONTROLS SHALL SUPPLEMENT MAINLINE TRAFFIC CONTROL FOR LANE CLOSURES.

7. THE SIGNS SHALL BE MOUNTED ABOVE THE BARRICADES/DRUMS ON SEPARATE SIGN SUPPORTS THAT MEET NCHRP 350 OR MASH PREQUIREMENTS.

8. TRAFFIC CONTROL AND PROTECTION AT TURN BAYS (TO REMAIN OPEN TO TRAFFIC) SHALL BE INCLUDED IN THE COST OF SPECIFIED TRAFFIC CONTROL STANDARDS OR ITEMS.

TURN BAY ENTRANCE WITHIN A LANE CLOSURE

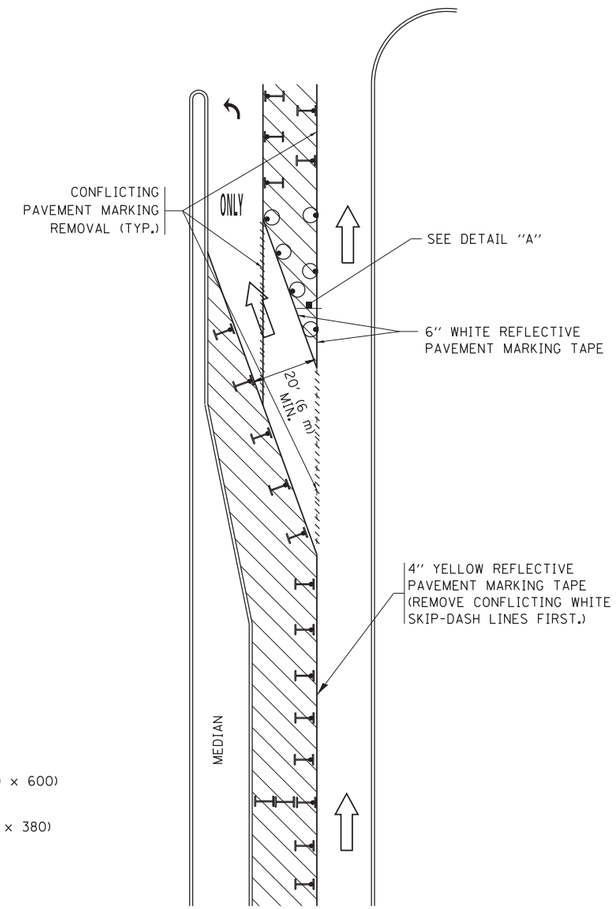
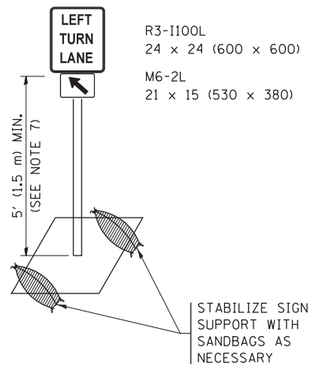


FIGURE 2

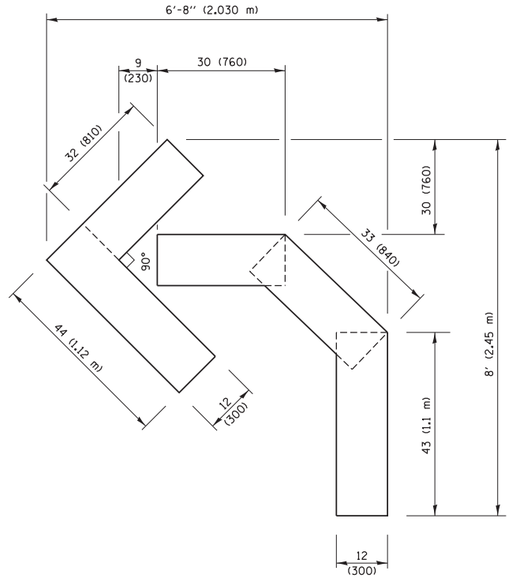


DETAIL A

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

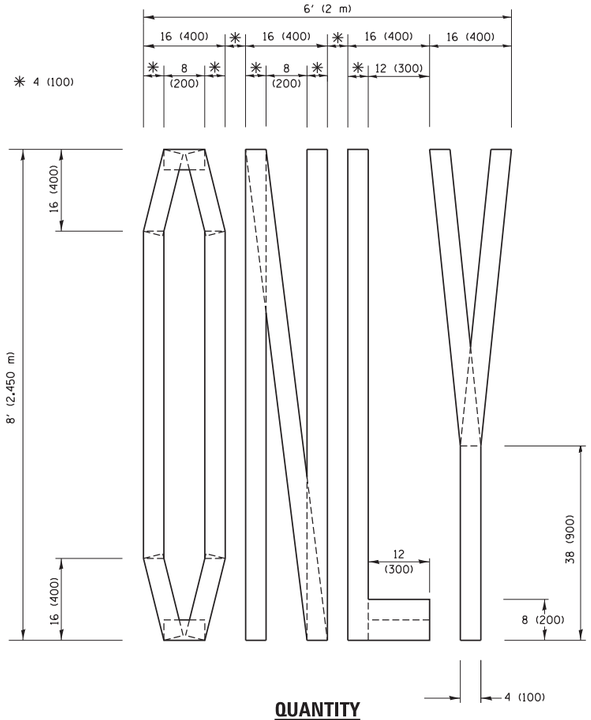
FILE NAME = pw:\\IL084EBIDINTEG.illinois.gov:PWIDOT\Documents\IDOT Offices\District 1\Projects\DistStd\ADData\CAD\HOUSEH\tc07.dgn	USER NAME = footemj	REVISED -T. RAMMACHER 09-08-94	REVISED - R. BORO 09-14-09	STATE OF ILLINOIS DEPARTMENT OF TRANSPORTATION	TRAFFIC CONTROL AND PROTECTION AT TURN BAYS (TO REMAIN OPEN TO TRAFFIC)		
	PLOT SCALE = 50.0000 ' / in.	REVISED - A. HOUSEH 10-12-96	REVISED - A. SCHUETZE 09-15-16		SCALE: NONE	SHEET 1 OF 1 SHEETS	STA. TO STA.
Default	PLOT DATE = 9/15/2016	REVISED -T. RAMMACHER 01-06-00	REVISED -				

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
326	13-00026-00-CH	KANE	107	93
	TC-14	CONTRACT NO. 61E52		
	ILLINOIS FED. AID PROJECT			



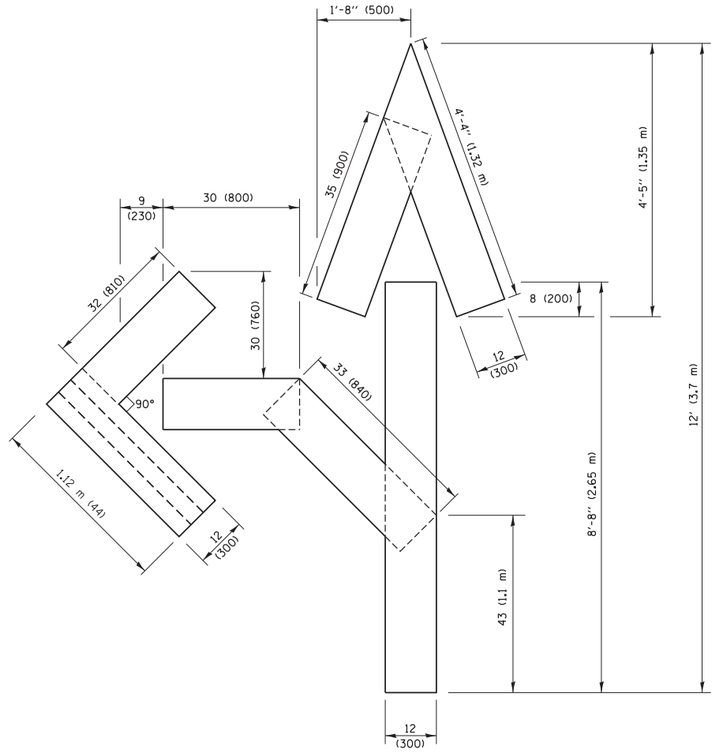
QUANTITY

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



QUANTITY

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

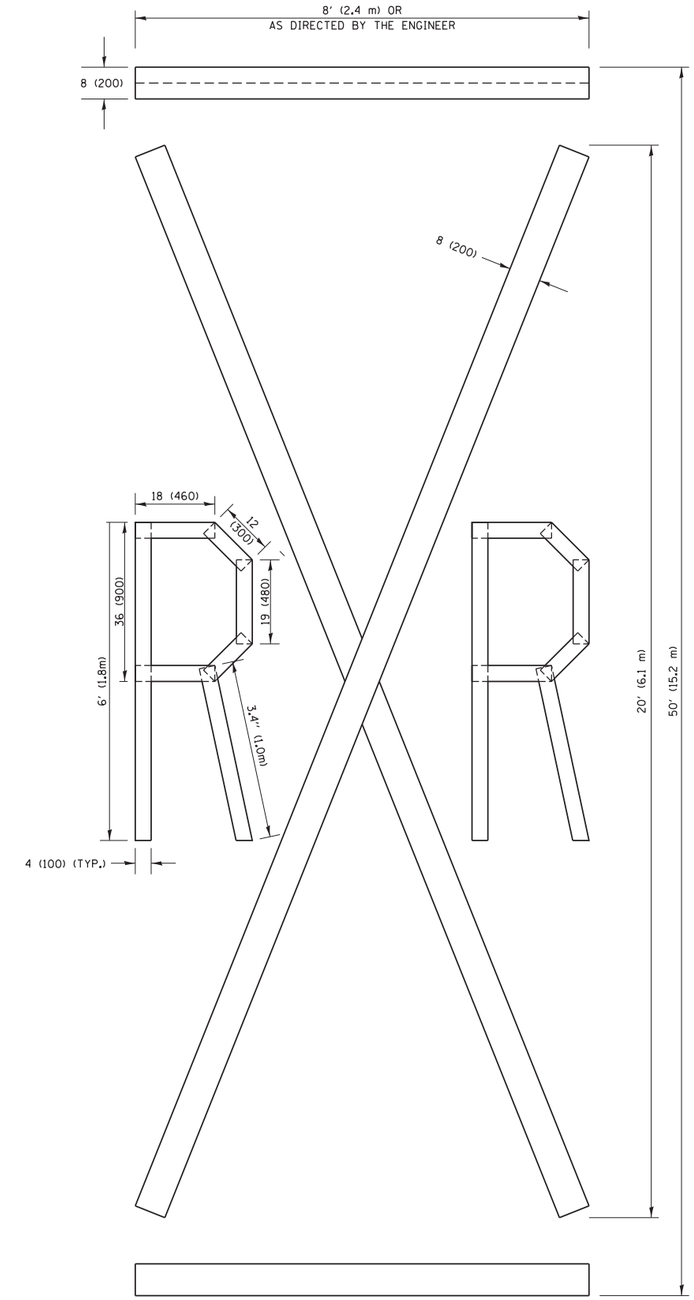


QUANTITY

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

NOTE:

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



QUANTITY

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

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

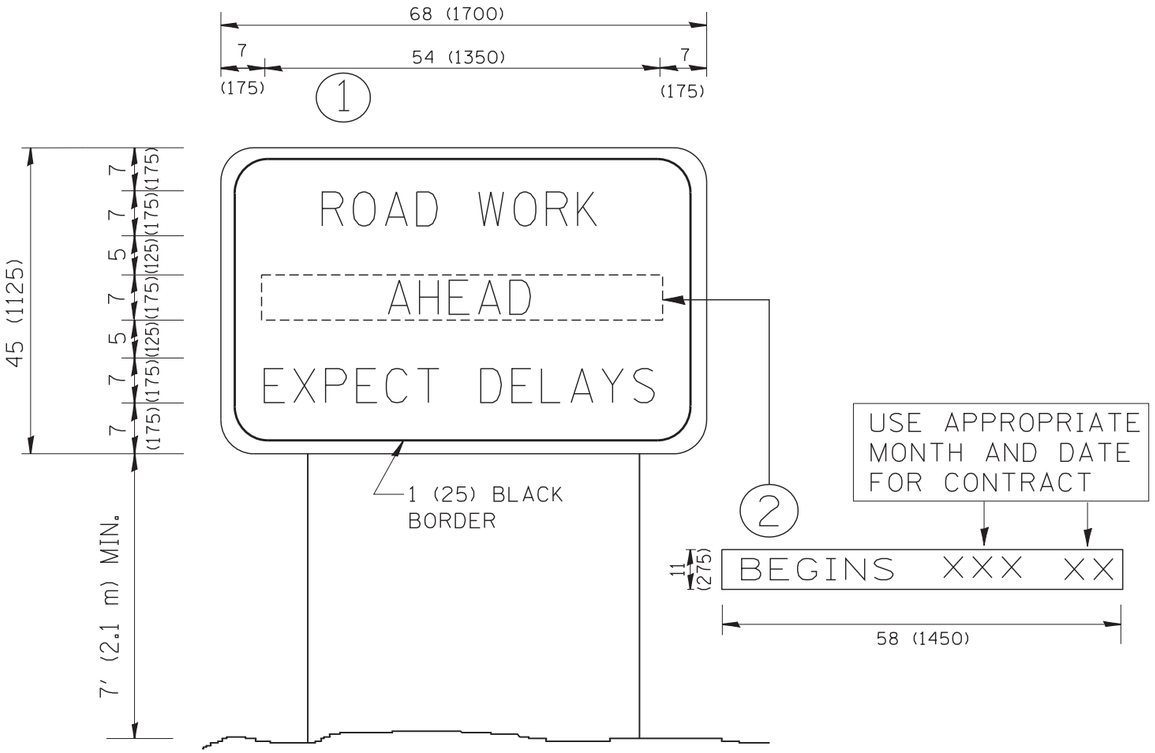
FILE NAME = pw:\\IL084EBIDINTEG.illinois.gov:PWIDOT\Documents\IDOT Offices\District 1\Projects\Dist\DRAWN\CADData\CADsheets\tc16.dgn	USER NAME = footemj	DESIGNED -	REVISED -T. RAMMACHER 03-02-98
			REVISED -E. GOMEZ 08-28-00
	PLOT SCALE = 50.0000 ' / in.	CHECKED -	REVISED -E. GOMEZ 08-28-00
	PLOT DATE = 9/15/2016	DATE - 09-18-94	REVISED -A. SCHUETZE 09-15-16

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

SHORT TERM PAVEMENT MARKING LETTERS AND SYMBOLS

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

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
326	13-00026-00-CH	KANE	107	94
	TC-16	CONTRACT NO. 61E52		
FED. ROAD DIST. NO. 1	ILLINOIS	FED. AID PROJECT		



NOTES:

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

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

FILE NAME = W:\diststd\22x34\tc22.dgn	USER NAME = gaglianobt	DESIGNED -	REVISED - R. MIRS 09-15-97
		DRAWN -	REVISED - R. MIRS 12-11-97
	PLOT SCALE = 50.000 ' / IN.	CHECKED -	REVISED - T. RAMMACHER 02-02-99
	PLOT DATE = 1/4/2008	DATE -	REVISED - C. JUCIUS 01-31-07

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

ARTERIAL ROAD INFORMATION SIGN

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

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
326	13-00026-00-CH	KANE	107	95
	TC-22	CONTRACT NO. 61E52		
FED. ROAD DIST. NO. 1	ILLINOIS	FED. AID PROJECT		

150 140 130 120 110 100 90 80 70 60 50 40 30 20 10 0 10 20 30 40 50 60 70 80 90 100 110 120 130 140 150

715
710
705

EX EASE
EX EASE
EX ROW
1.50 %
19:1
CUT = 3.30 SQ FT
FILL = 2.70 SQ FT
EX ROW
304 + 50.00

EX EASE
EX EASE
EX ROW
1.50 %
7:1
CUT = 0.70 SQ FT
FILL = 0.00 SQ FT
EX ROW
304 + 00.00

EX ROW
EX ROW
303 + 50.00

EX ROW
EX ROW
303 + 00.00

150 140 130 120 110 100 90 80 70 60 50 40 30 20 10 0 10 20 30 40 50 60 70 80 90 100 110 120 130 140 150

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

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

Plotted: 5/30/2018 11:59:56 AM By: jschmidt

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52 Wheeler Road
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VILLAGE OF SUGAR GROVE
10 S. MUNICIPAL DRIVE
SUGAR GROVE, IL 60554

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

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

BLISS ROAD / WHEELER ROAD AT ILLINOIS ROUTE 47
CROSS SECTIONS

SCALE: 1"=10'(H)/5'(V) | SHEET NO. 1 OF 6 SHEETS | STA. 303+00.00 TO STA. 304+50.00

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
326	13-00026-00-CH	KANE	107	96
		CONTRACT NO. 61E52		
	ILLINOIS FED. AID PROJECT			

150 140 130 120 110 100 90 80 70 60 50 40 30 20 10 0 10 20 30 40 50 60 70 80 90 100 110 120 130 140 150

705

SEE WHEELER ROAD CROSS SECTIONS

PGL:706.65

4.0 %

3.3 %

PGL:707.62

3.5 %

1.6 %

CUT = 46.90 SQ FT
FILL = 29.90 SQ FT

306+50.00

715

710

705

EX EASE

EX EASE

EX ROW

1.50 %

12:1

PGL:707.09

4.0 %

4.5 %

PGL:708.05

3.5 %

0.9 %

CUT = 22.70 SQ FT
FILL = 0.00 SQ FT

306+00.00

715

710

705

EX EASE

EX EASE

EX ROW

1.50 %

9:1

PGL:707.37

4.1 %

4.6 %

PGL:708.41

3.5 %

0.0 %

CUT = 25.90 SQ FT
FILL = 0.00 SQ FT

305+50.00

E
RO

715

710

705

EX EASE

EX EASE

EX ROW

1.50 %

33:1

CUT = 1.60 SQ FT
FILL = 0.00 SQ FT

305+00.00

EX ROW

715

710

705

150 140 130 120 110 100 90 80 70 60 50 40 30 20 10 0 10 20 30 40 50 60 70 80 90 100 110 120 130 140 150

FINAL SURVEY	NOTE BOOK	NO.	BY	DATE

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PLOTTED
TEMPLATE
AREAS
AREAS CHECKED

ORIGINAL SURVEY	NOTE BOOK	NO.	BY	DATE

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PLOTTED
TEMPLATE
AREAS
AREAS CHECKED

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SUGAR GROVE, IL 60554

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

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

BLISS ROAD / WHEELER ROAD AT ILLINOIS ROUTE 47
CROSS SECTIONS

SCALE: 1"=10'(H)/5'(V) | SHEET NO. 2 OF 6 SHEETS | STA. 305+00.00 TO STA. 306+50.00

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
326	13-00026-00-CH	KANE	107	97
		CONTRACT NO. 61E52		
	ILLINOIS FED. AID PROJECT			

150 140 130 120 110 100 90 80 70 60 50 40 30 20 10 0 10 20 30 40 50 60 70 80 90 100 110 120 130 140 150

710
705
700

EX ROW

B/C 61.67 704.05

A1

SS 700.7

4.0%

PGL:705.08

4.0%

PGL:706.12

5.0 %

3.2 %

4.0 %

1.50 %

CUT = 48.30 SQ FT
FILL = 9.90 SQ FT

308+50.00

715
710
705
700

EX ROW

B/C 61.67 704.48

4.0%

PGL:705.51

4.0 %

PGL:706.50

3.7 %

2.3 %

1.50 %

CUT = 79.20 SQ FT
FILL = 56.10 SQ FT

308+00.00

705

1.50 %

3.6 %

PGL:705.85

1.7 %

3.9 %

PGL:706.95

3.3 %

SEE BLISS ROAD CROSS SECTIONS

CUT = 50.50 SQ FT
FILL = 38.40 SQ FT

307+50.00

705

SEE WHEELER ROAD CROSS SECTIONS

3.2 %

PGL:706.19

2.2 %

3.5 %

PGL:707.31

3.3 %

1.7 %

SEE BLISS ROAD CROSS SECTIONS

307+00.00

150 140 130 120 110 100 90 80 70 60 50 40 30 20 10 0 10 20 30 40 50 60 70 80 90 100 110 120 130 140 150

FINAL SURVEY	BY	DATE
NOTE BOOK		
NO.		

SURVEYED
PLOTTED
TEMPLATE
AREAS
AREAS CHECKED

ORIGINAL SURVEY	BY	DATE
NOTE BOOK		
NO.		

SURVEYED
PLOTTED
TEMPLATE
AREAS
AREAS CHECKED

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

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

BLISS ROAD / WHEELER ROAD AT ILLINOIS ROUTE 47
CROSS SECTIONS

SCALE: 1"=10'(H)/5'(V) | SHEET NO. 3 OF 6 SHEETS | STA. 307+00.00 TO STA. 308+50.00

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
326	13-00026-00-CH	KANE	107	98
		CONTRACT NO. 61E52		
		ILLINOIS FED. AID PROJECT		

150 140 130 120 110 100 90 80 70 60 50 40 30 20 10 0 10 20 30 40 50 60 70 80 90 100 110 120 130 140 150

715
710
705
700

EX ROW

4:1

B/C
61.67
702.43

55
698.7

4.0%

PGL:703.46

4.0%

CUT = 48.80 SQ FT
FILL = 11.50 SQ FT

EX ROW

PR PERM EASE

1.50 %

310 + 00.00

EX ROW

4:1

B/C
61.67
702.99

55
699.3

4.0%

PGL:704.02

4.0%

CUT = 48.50 SQ FT
FILL = 12.90 SQ FT

EX ROW

PR PERM EASE

1.50 %

309 + 50.00

EX ROW

4:1

B/C
61.67
703.55

54
700.0

4.0%

PGL:704.58

4.0%

CUT = 54.90 SQ FT
FILL = 12.10 SQ FT

PGL:705.68

5.7 %

3.2 %

5.1 %

1.50 %

EX ROW

309 + 00.00

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

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

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

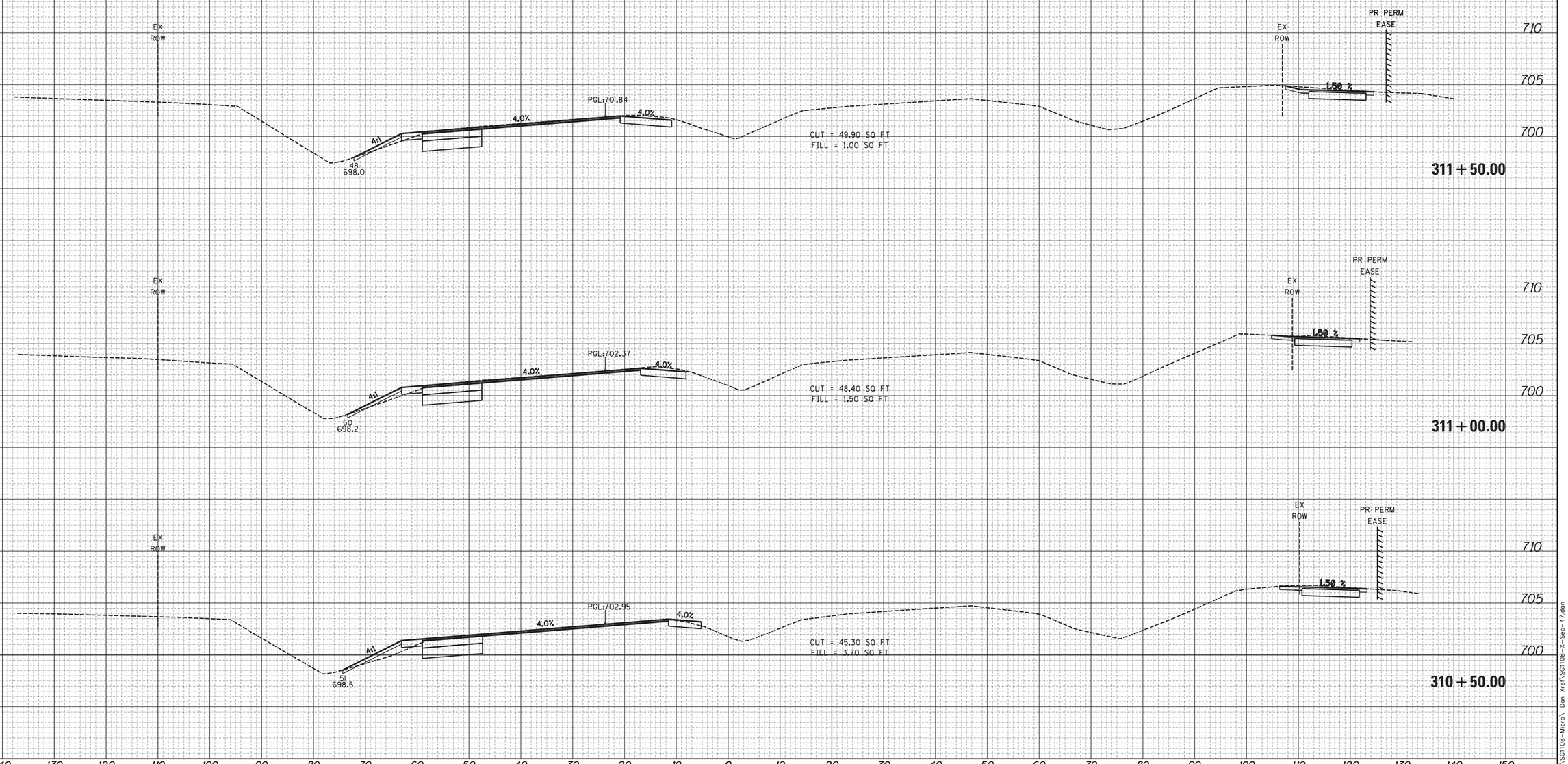
STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

BLISS ROAD / WHEELER ROAD AT ILLINOIS ROUTE 47
CROSS SECTIONS

SCALE: 1"=10'(H)/5'(V) | SHEET NO. 4 OF 6 SHEETS | STA. 309+00.00 TO STA. 310+00.00

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
326	13-00026-00-CH	KANE	107	99
		CONTRACT NO. 61E52		
	ILLINOIS FED. AID PROJECT			

150 140 130 120 110 100 90 80 70 60 50 40 30 20 10 0 10 20 30 40 50 60 70 80 90 100 110 120 130 140 150



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

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

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SUGAR GROVE, IL 60554

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

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

BLISS ROAD / WHEELER ROAD AT ILLINOIS ROUTE 47
CROSS SECTIONS

SCALE: 1"=10'(H)/5'(V) | SHEET NO. 5 OF 6 SHEETS | STA. 310+50.00 TO STA. 311+50.00

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
326	13-00026-00-CH	KANE	107	100
		CONTRACT NO. 61E52		
	ILLINOIS FED. AID PROJECT			

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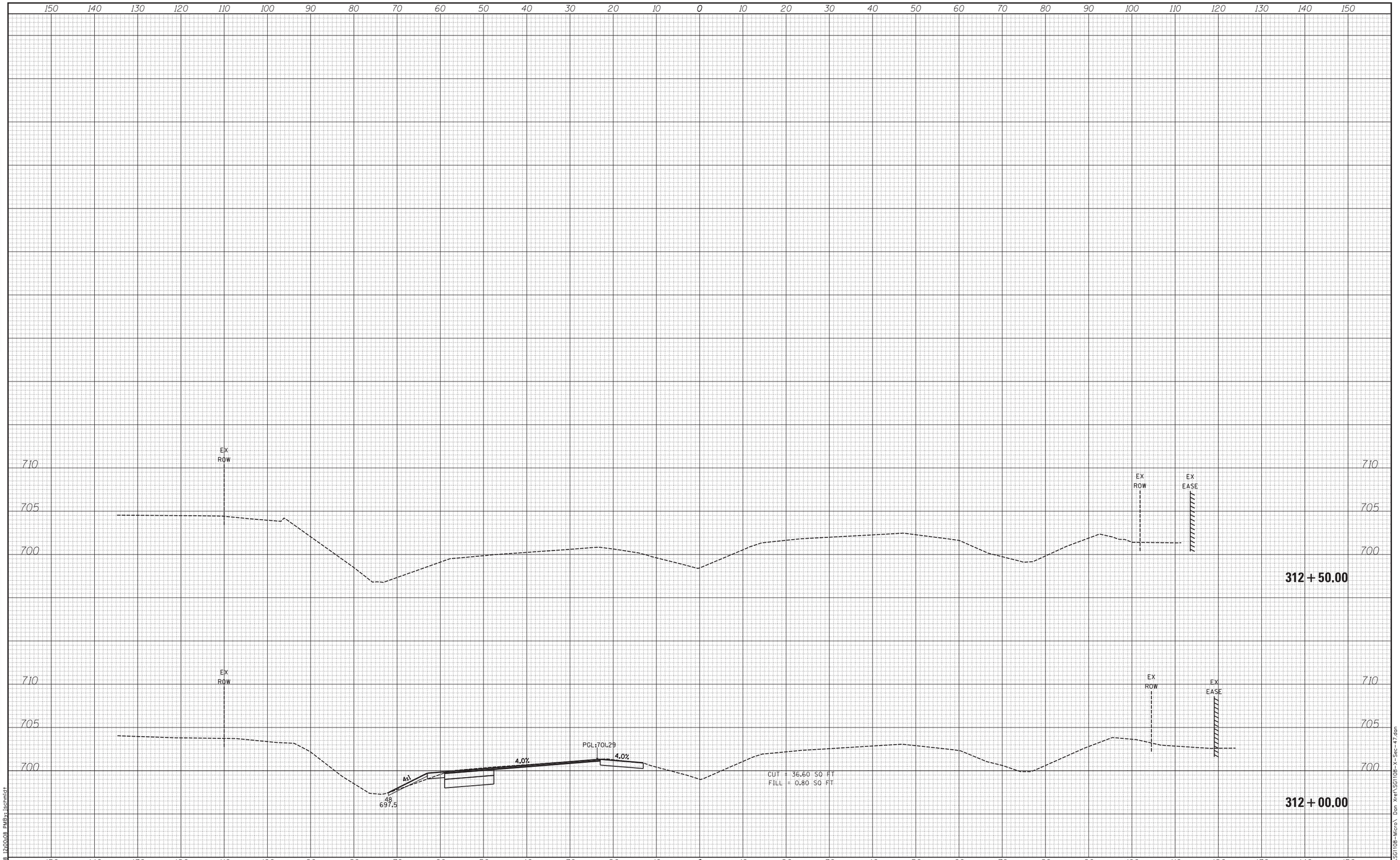
FINAL SURVEY		BY	DATE
NOTE BOOK	SURVEYED		
NO.	PLOTTED		
	TEMPLATE		
	AREAS		
	AREAS CHECKED		

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



Plotted: 5/30/2018 12:00:08 PM By: ischmidt

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VILLAGE OF SUGAR GROVE
10 S. MUNICIPAL DRIVE
SUGAR GROVE, IL 60554

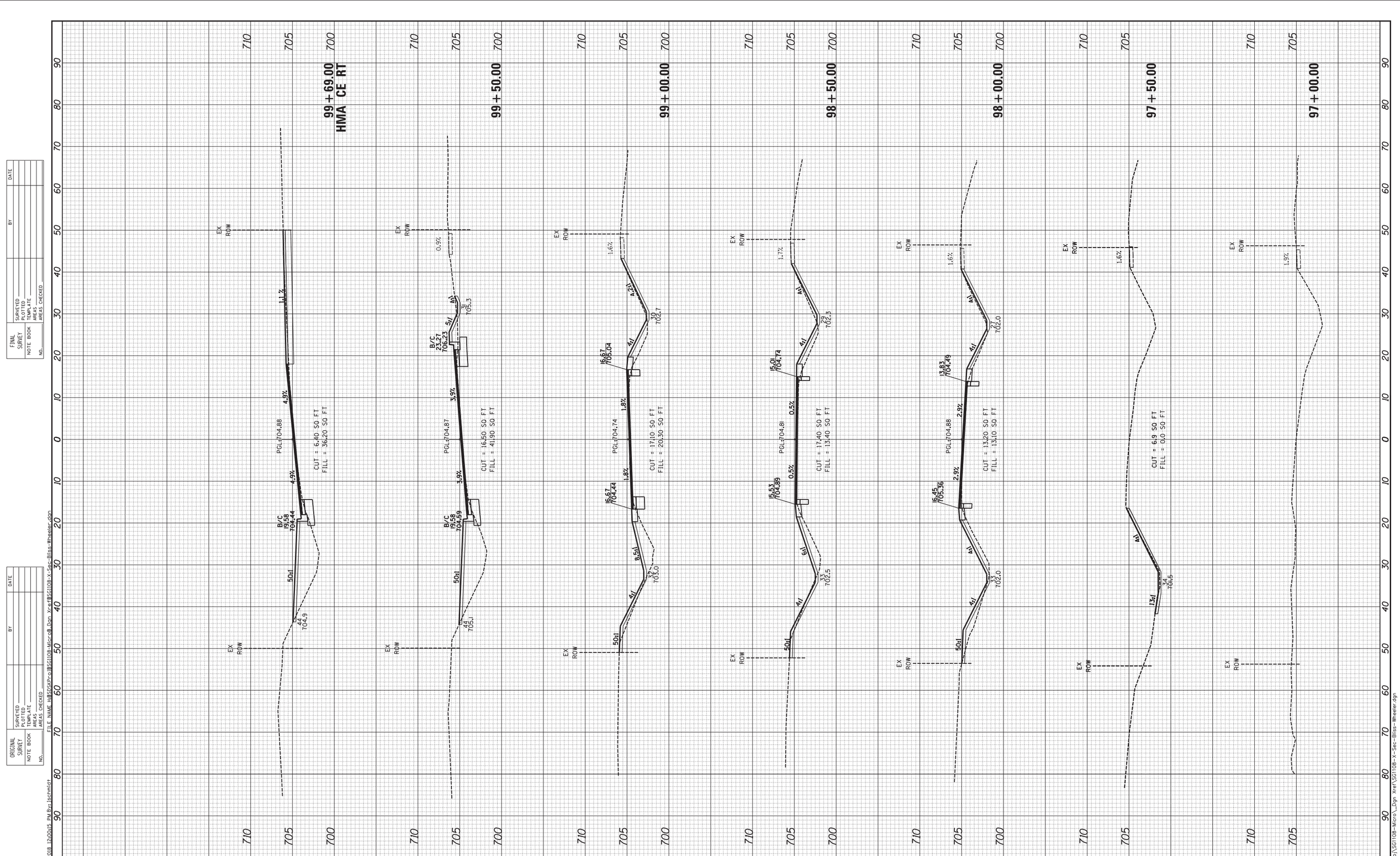
DESIGNED	-	REVISED	-
DRAWN	-	REVISED	-
CHECKED	-	REVISED	-
DATE	-	REVISED	-

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

BLISS ROAD / WHEELER ROAD AT ILLINOIS ROUTE 47
CROSS SECTIONS

SCALE: 1"=10'(H)/5'(V) | SHEET NO. 6 OF 6 SHEETS | STA. 312+00.00 TO STA. 312+50.00

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
326	13-00026-00-CH	KANE	107	101
		CONTRACT NO. 61E52		
	ILLINOIS FED. AID PROJECT			



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

FILE NAME = H:\SDSKPro\SG1108-Micro_Dgn Xref\SG1108-X-Sec-Bliss-Wheeler.dgn

Plotted: 5/30/2018 12:00:15 PM By: ischmidt

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

Path: H:\SDSKPro\SG1108-Micro_Dgn Xref\SG1108-X-Sec-Bliss-Wheeler.dgn

Engineering Enterprises, Inc.
CONSULTING ENGINEERS
52 Wheeler Road
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630.466.6700 / www.eeiweb.com

VILLAGE OF SUGAR GROVE
10 S. MUNICIPAL DRIVE
SUGAR GROVE, IL 60554

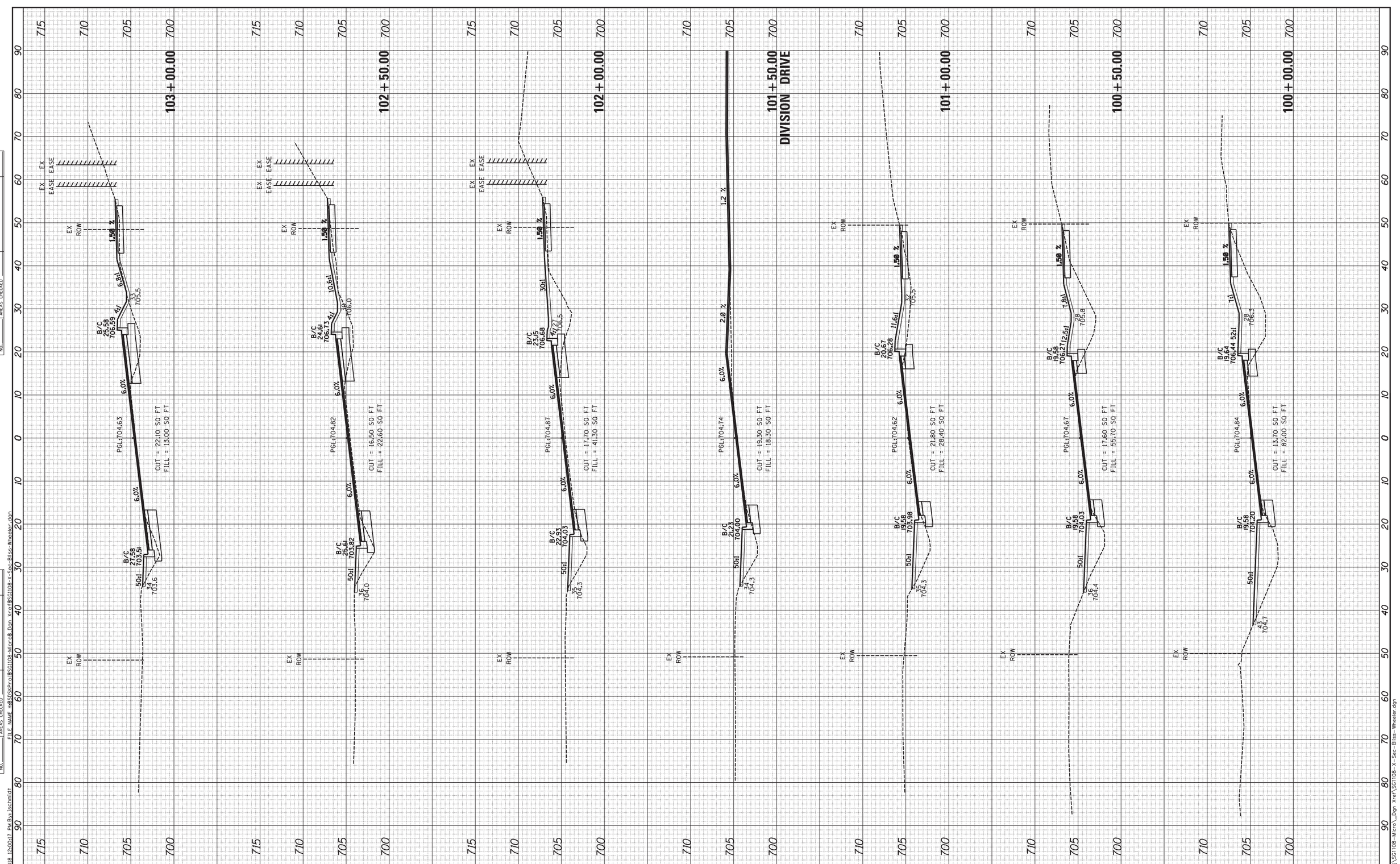
DESIGNED	-	REVISED	-
DRAWN	-	REVISED	-
CHECKED	-	REVISED	-
DATE	-	REVISED	-

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

BLISS ROAD / WHEELER ROAD AT ILLINOIS ROUTE 47
CROSS SECTIONS

SCALE: 1"=10'(H)/5'(V) | SHEET NO. 1 OF 6 SHEETS | STA. 97+00.00 TO STA. 99+69.00

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
326	13-00026-00-CH	KANE	107	102
		CONTRACT NO. 61E52		
	ILLINOIS FED. AID PROJECT			



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

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

FILE NAME H:\SDSKProj\SG1108-Micro_Dgn Xref\SG1108-X-Sec-Bliss-Wheeler.dgn

Plotted: 5/30/2018 12:00:17 PM By: Ischmidt

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

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

BLISS ROAD / WHEELER ROAD AT ILLINOIS ROUTE 47
CROSS SECTIONS

SCALE: 1"=10'(H)/5'(V) | SHEET NO. 2 OF 6 SHEETS | STA. 100+00.00 TO STA. 103+00.00

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
326	13-00026-00-CH	KANE	107	103
		CONTRACT NO. 61E52		
	ILLINOIS FED. AID PROJECT			

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

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

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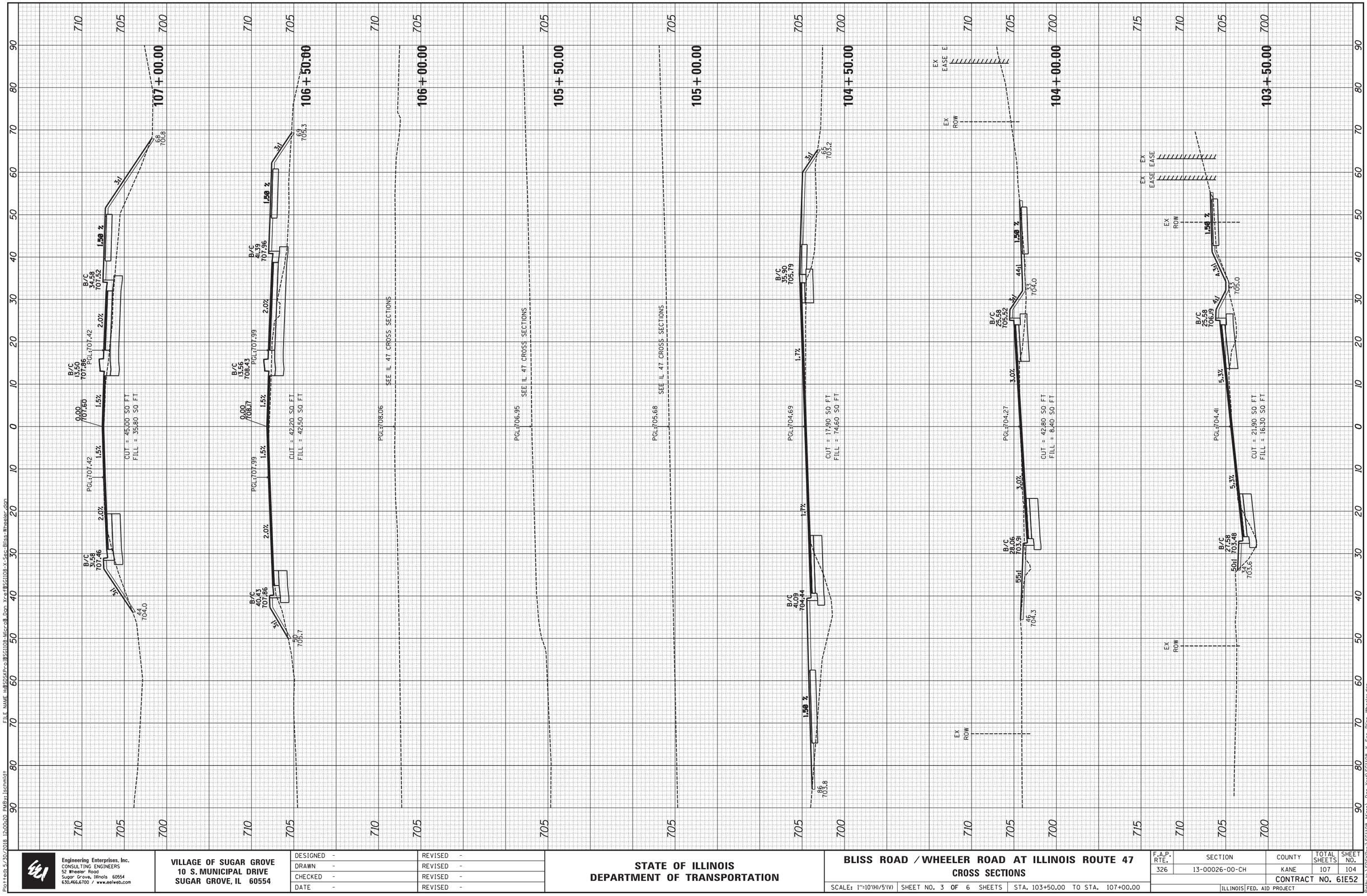
Plotted: 5/30/2018 12:00:20 PM By: ischmidt



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

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

BLISS ROAD / WHEELER ROAD AT ILLINOIS ROUTE 47
CROSS SECTIONS

SCALE: 1"=10'(H)/5'(V) | SHEET NO. 3 OF 6 SHEETS | STA. 103+50.00 TO STA. 107+00.00

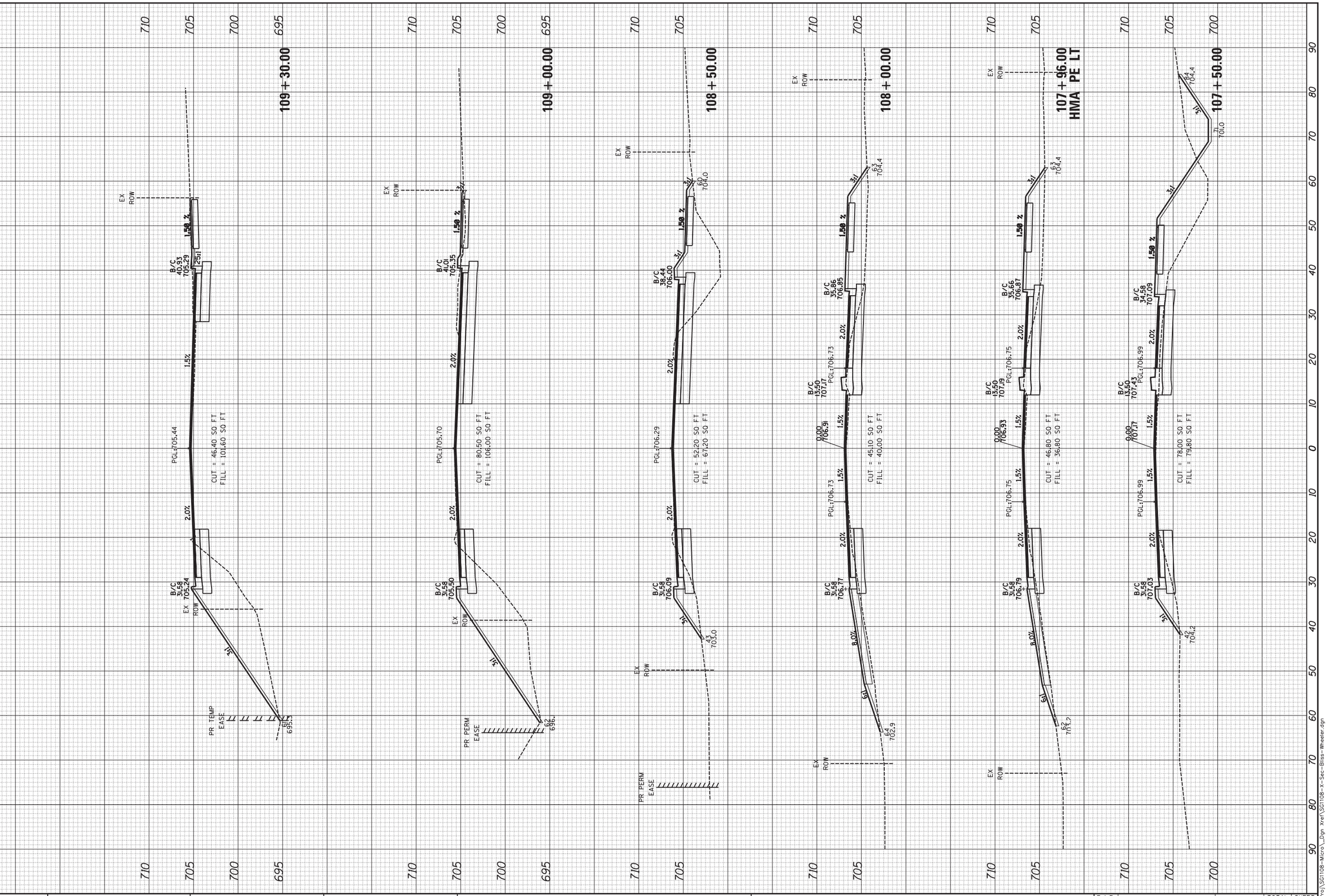
F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
326	13-00026-00-CH	KANE	107	104
		CONTRACT NO. 61E52		
	ILLINOIS FED. AID PROJECT			

Path: H:\SDSKPro\BSG1108-Micro_Dgn Xref\BSG1108-X-Sec-Bliss-Wheeler.dgn

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

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

FILE NAME: H:\SDSKProj\SG1108-Micro_Dgn Xref\SG1108-X-Sec-Bliss-Wheeler.dgn



Plotted: 5/30/2018 12:00:22 PM By: tschmidt

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VILLAGE OF SUGAR GROVE
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SUGAR GROVE, IL 60554

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

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

BLISS ROAD / WHEELER ROAD AT ILLINOIS ROUTE 47
CROSS SECTIONS

SCALE: 1"=10'(H)/5'(V) | SHEET NO. 4 OF 6 SHEETS | STA. 107+50.00 TO STA. 109+30.00

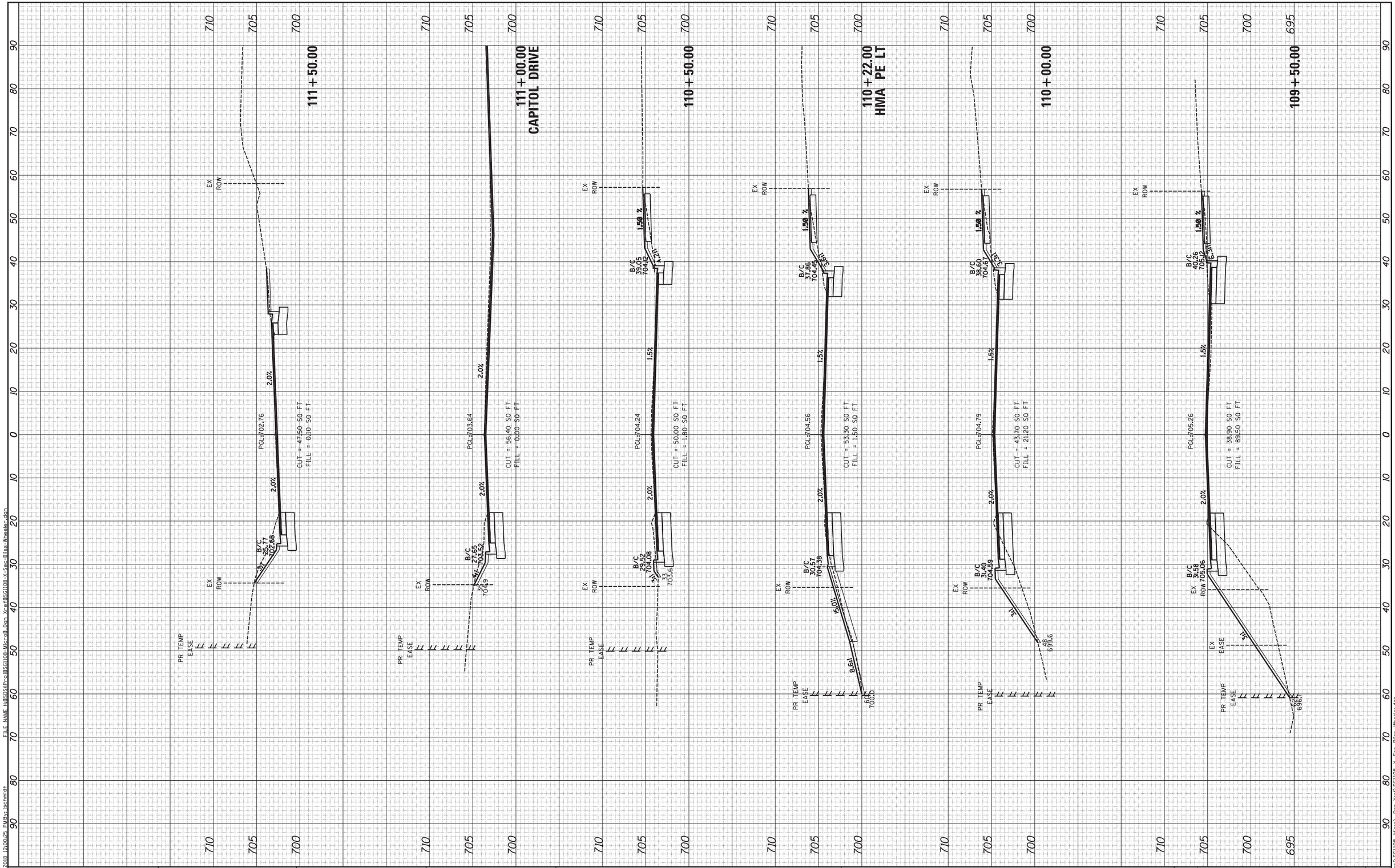
F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
326	13-00026-00-CH	KANE	107	105
		CONTRACT NO. 61E52		
	ILLINOIS FED. AID PROJECT			

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

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

FILE NAME: H:\SDSKProj\SG1108-Micro_Dgn Xref\SG1108-X-Sec-Bliss-Wheeler.dgn

Plotted: 5/30/2018 12:00:25 PM By: ischmidt



Path: H:\SDSKProj\SG1108-Micro_Dgn Xref\SG1108-X-Sec-Bliss-Wheeler.dgn

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

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

BLISS ROAD / WHEELER ROAD AT ILLINOIS ROUTE 47
CROSS SECTIONS

SCALE: 1"=10'(H)/5'(V) | SHEET NO. 5 OF 6 SHEETS | STA. 109+50.00 TO STA. 111+50.00

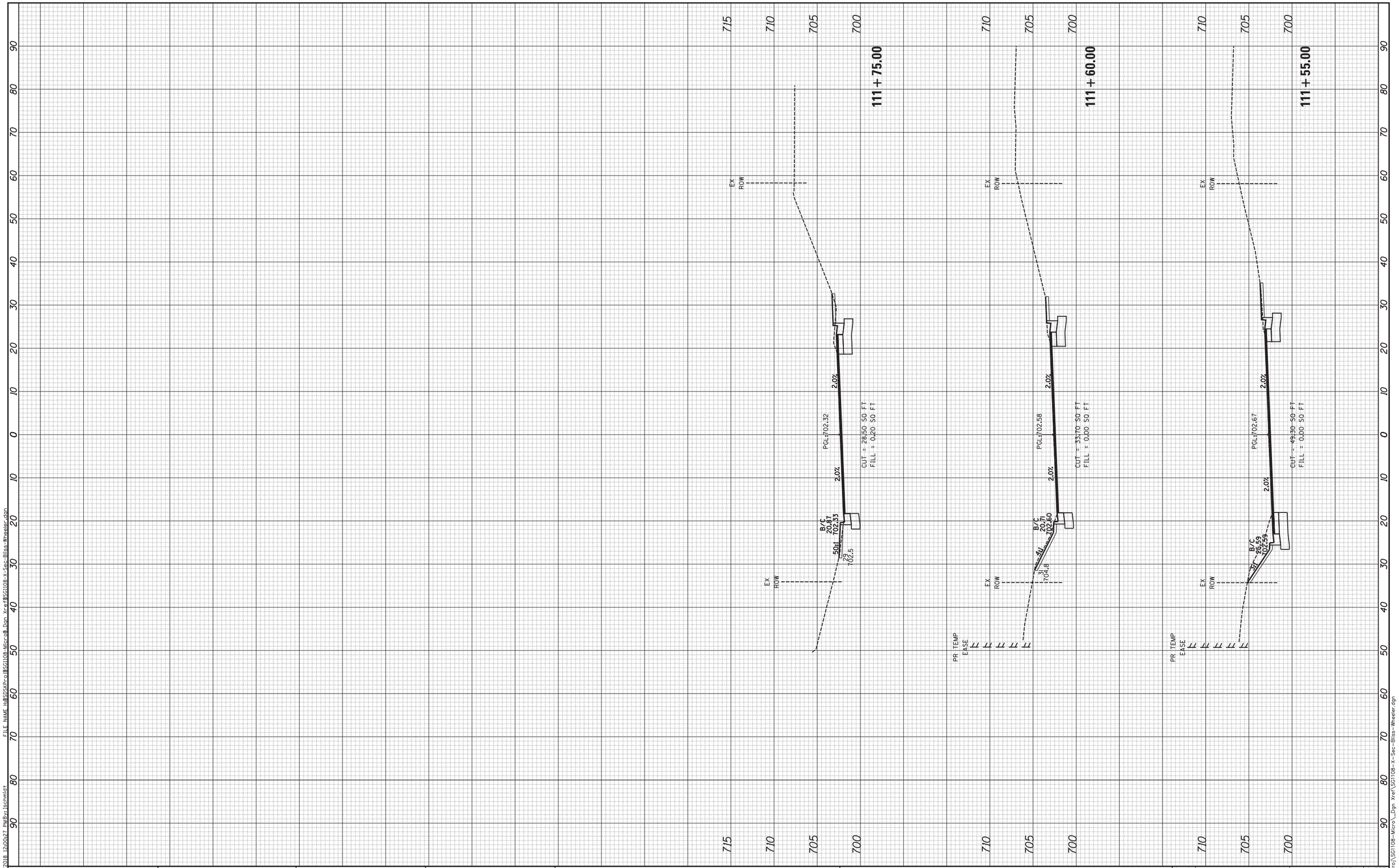
F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
326	13-00026-00-CH	KANE	107	106
		CONTRACT NO. 61E52		
		ILLINOIS FED. AID PROJECT		

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

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

FILE NAME: H:\SDSKProj\SG1108-Micro_Dgn Xref\SG1108-X-Sec-Bliss-Wheeler.dgn

Plotted: 5/30/2018 12:00:27 PM By: ischmidt



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

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

BLISS ROAD / WHEELER ROAD AT ILLINOIS ROUTE 47
CROSS SECTIONS

SCALE: 1"=10'(H)/5'(V) | SHEET NO. 6 OF 6 SHEETS | STA. 111+55.00 TO STA. 111+75.00

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
326	13-00026-00-CH	KANE	107	107
		CONTRACT NO. 61E52		
	ILLINOIS FED. AID PROJECT			

Path: H:\SDSKProj\SG1108-Micro_Dgn Xref\SG1108-X-Sec-Bliss-Wheeler.dgn