

F.A.U. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
9345	15-00052-00-PV	MONROE	23	1
FEDERAL AID PROJECT		ILLINOIS CONTRACT NO. 97667		

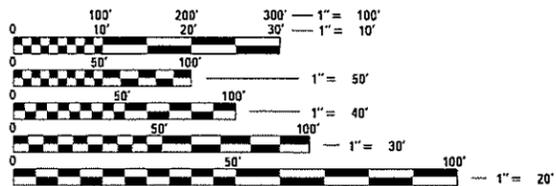
INDEX OF SHEETS

04-27-2018 LETTING ITEM 201

SHEET NO.	ITEM
1	COVER SHEET
2	GENERAL NOTES & COMMITMENTS
3-5	SUMMARY OF QUANTITIES
6-7	TYPICAL SECTIONS
8-9	SCHEDULE OF QUANTITIES
10	PLAN AND PROFILE SHEET
11	TRAFFIC CONTROL PLAN
12	EROSION CONTROL SHEET
13	DRAINAGE SHEET
14	REMOVAL SHEET
15-16	INTERSECTION DETAILS
17	PAVEMENT MARKING & SIGNING SHEET
18-20	TRAFFIC SIGNAL SHEETS
21	ENTRANCE DETAILS
22-23	CROSS SECTION SHEETS

HIGHWAY STANDARDS

000001-06	STANDARD SYMBOLS, ABBREVIATIONS AND PATTERNS
001001-02	AREAS OF REINFORCEMENT BARS
001006	DECIMAL OF AN INCH AND OF A FOOT
280001-07	TEMPORARY EROSION CONTROL SYSTEMS
424011-03	CORNER PARALLEL CURB RAMPS FOR SIDEWALKS
542301-03	PRECAST REINFORCED CONCRETE FLARED END SECTION
602301-04	INLET - TYPE A
602306-03	INLET - TYPE B
602401-04	MANHOLE TYPE A
602601-05	PRECAST REINFORCED CONCRETE FLAT SLAB TOP
604006-05	FRAME AND GRATE TYPE 3
604036-03	GRATE TYPE 8
604091-03	FRAME AND GRATE TYPE 24
606001-07	CONCRETE CURB TYPE B AND COMBINATION CONCRETE CURB AND GUTTER
701326-04	LANE CLOSURE, 2L, 2W, PAVEMENT WIDENING, FOR SPEEDS > 45 MPH
701601-09	URBAN LANE CLOSURE, MULTILANE, 1W OR 2W WITH NONTRAVERSABLE MEDIAN
701901-07	TRAFFIC CONTROL DEVICES
720001-01	SIGN PANEL MOUNTING DETAILS
720006-04	SIGN PANEL ERECTION DETAILS
720011-01	METAL POSTS FOR SIGNS, MARKERS & DELINEATORS
720016-04	MAST ARM MOUNTED STREET NAME SIGNS
728001-01	TELESCOPING STEEL SIGN SUPPORT
729001-01	APPLICATIONS OF TYPES A & B METAL POSTS (FOR SIGNS & MARKERS)
780001-05	TYPICAL PAVEMENT MARKINGS
814001-03	HANDHOLES
857001-01	STANDARD PHASE DESIGNATION DIAGRAMS AND PHASE SEQUENCES
873001-02	TRAFFIC SIGNAL GROUNDING & BONDING
876001-04	PEDESTRIAN PUSH BUTTON POST
877002-04	STEEL MAST ARM ASSEMBLY AND POLE 56" THROUGH 75"
878001-10	CONCRETE FOUNDATION DETAILS
880006-01	TRAFFIC SIGNAL MOUNTING DETAILS
886001-01	DETECTOR LOOP INSTALLATIONS
886006-01	TYPICAL LAYOUTS FOR DETECTION LOOPS
BLR21-9	TYPICAL APPLICATION OF TRAFFIC CONTROL DEVICES FOR CONSTRUCTION ON RURAL LOCAL HIGHWAYS



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

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

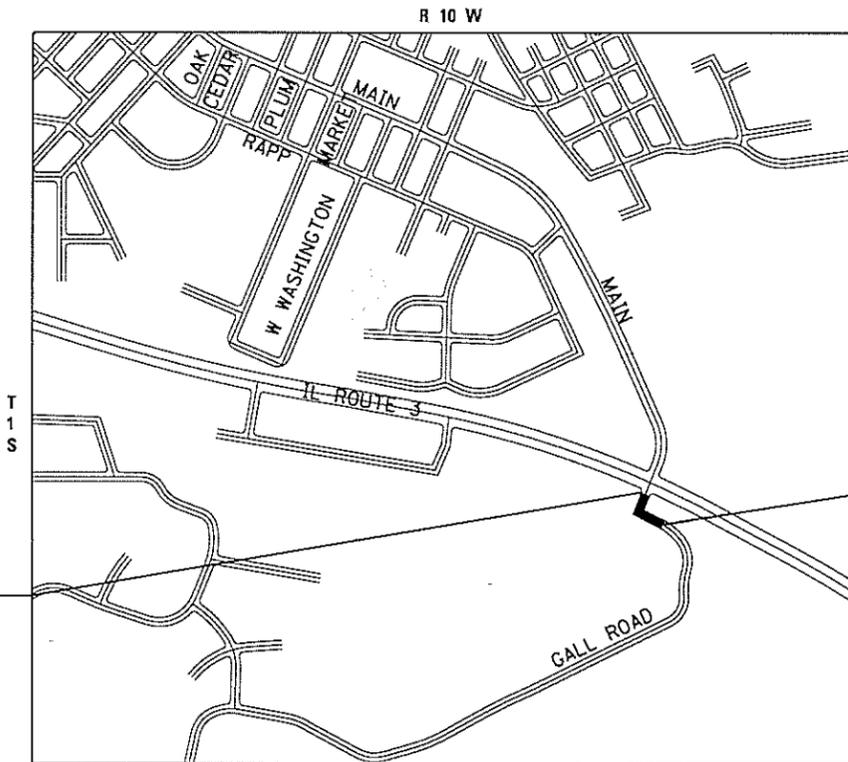
DESIGN DESIGNATION

ROADWAY CLASSIFICATION = MAJOR COLLECTOR
DESIGN SPEED = 20 MPH
CURRENT ADT (2018) = 1,750
DESIGN YEAR ADT (2038) = 2,357

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

PLANS FOR PROPOSED

CMAQ FUNDS
CITY OF COLUMBIA
GALL ROAD INTERSECTION IMPROVEMENTS
FAU 9345
SECTION 15-00052-00-PV
MONROE COUNTY
PROJECT NO. G28X(787)
JOB NO. C-98-184-18

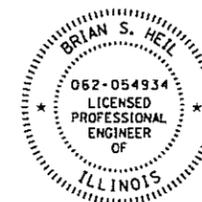


BEGIN SECTION
STA. 10 + 46

END SECTION
STA. 14 + 41

LOCATION MAP
(NOT TO SCALE)

GROSS LENGTH = 395.0' = (0.075 MILES)
NET LENGTH = 395.0' = (0.075 MILES)



Brian S. Heil 1/24/18
BRIAN S. HEIL, P.E.
License Expires 11/30/2019



STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

APPROVED: *Kevin Hutchinson* 1-24-18 DATE
KEVIN HUTCHINSON MAYOR OF COLUMBIA

PASSED: *James E. Wynn* Feb 20 2018 DATE
acting DISTRICT 8 ENGINEER OF LOCAL ROADS & STREETS

RELEASING FOR BID BASED ON LIMITED REVIEW: *Jeffrey Z. Keim* Feb 20 2018 DATE
REGION 5 ENGINEER

OATES ASSOCIATES

Collinsville: 100 Lancer Court, Suite 1, Collinsville, IL 62234, 618.345.2200
Belleville: 20 East Main Street, Belleville, IL 62202, 618.416.4688
St. Louis: 720 Olive, Suite 700, St. Louis, MO 63101, 314.588.0381
St. Charles: 330 North Main, Suite 201, St. Charles, MO 63301, 636.493.6277
www.oatescorp.com
ILLINOIS DESIGN FIRM LICENSE NO. 184.001115

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GENERAL NOTES

UTILITIES

1. ABOVE-GROUND UTILITY FACILITIES OR APPURTENANCES SHALL BE RELOCATED OR ADJUSTED BY THEIR RESPECTIVE OWNERS TO PROVIDE A MINIMUM HORIZONTAL CLEARANCE OF 1.5 FEET, MEASURED FROM THE FACE OF CURB TO THE NEAR EDGE OF THE OBJECT.
2. ILLINOIS STATE LAW REQUIRES A 48-HOUR NOTICE TO BE GIVEN TO ALL UTILITIES WITHIN THE PROJECT AREA BEFORE DIGGING. FIELD MARKING OF FACILITIES MAY BE OBTAINED BY CONTACTING J.U.L.I.E. OR FOR NON-MEMBERS, THE COMPANY DIRECTLY. AGENCIES KNOWN TO HAVE FACILITIES WITHIN THE PROJECT AREA ARE AS FOLLOWS:

CHARTER COMMUNICATIONS* (COMMUNICATIONS)
815 CHARTER COMMONS
TOWN & COUNTRY, MO 63017
(636) 387-6650

AMEREN ILLINOIS* (ELECTRIC)
1050 WEST BOULEVARD
BELLEVILLE, IL 62221
(618) 236-4372

CITY OF COLUMBIA* (WATER & SEWER)
208 SOUTH RAPP
COLUMBIA, IL 62239
(618) 281-7144

HTC - HARRISONVILLE TELEPHONE COMPANY* (TELEPHONE)
213 SOUTH MAIN STREET, P.O. BOX 149
WATERLOO, IL 62298
(618) 939-1000

MEMBERS OF J.U.L.I.E. CALL TOLL FREE (800) 892-0123 OR 811 AND ARE INDICATED BY A "*" . NON J.U.L.I.E. MEMBERS MUST BE NOTIFIED INDIVIDUALLY.

GENERAL

3. THE CONTRACTOR SHALL PROVIDE BLOCKOUTS IN THE PROPOSED SIDEWALK FOR PLACEMENT OF SIGN POSTS AND MAILBOX SUPPORTS, AS DIRECTED BY THE ENGINEER. THE COST OF THIS WORK WILL NOT BE PAID FOR SEPARATELY, BUT SHALL BE CONSIDERED AS INCLUDED IN THE CONTRACT UNIT PRICE FOR PORTLAND CEMENT CONCRETE SIDEWALK.
4. IN CASE OF CONFLICT BETWEEN THE CONSTRUCTION PLANS AND THE RIGHT OF WAY PLANS, THE RIGHT OF WAY PLANS SHALL TAKE PRECEDENCE IN MATTERS CONCERNING RIGHT OF WAY AND EASEMENTS. THE CONSTRUCTION PLANS SHALL TAKE PRECEDENCE IN MATTERS CONCERNING CONSTRUCTION ITEMS.
5. THE CONTRACTOR SHALL FERTILIZE, SEED AND MULCH ALL EARTH SURFACES DISTURBED BY CONSTRUCTION. FERTILIZER, SEEDING AND MULCH WITHIN THE CONSTRUCTION LIMITS WILL BE PAID FOR AS PROVIDED IN THE CONTRACT. FERTILIZER, SEEDING AND MULCH OUTSIDE THESE LIMITS WILL NOT BE MEASURED FOR PAYMENT. SEE THE SEEDING SCHEDULE FOR ESTIMATED PLAN QUANTITIES.
6. ALL EXISTING ROADWAY FEATURES INCLUDING, BUT NOT LIMITED TO, PAVEMENT, CURB, SIDEWALK, DRIVEWAY PAVEMENT, CULVERTS, HEADWALLS, LANDSCAPE, RIPRAP, AND GUARDRAIL, WHICH INTERFERE WITH THE PROPOSED CONSTRUCTION SHALL BE REMOVED BY THE CONTRACTOR UNLESS NOTED OTHERWISE ON THE PLANS. ALL FEATURES WHICH ARE TO BE REMOVED AND FOR WHICH THERE IS NO SPECIFIC PAY ITEM, WILL NOT BE MEASURED SEPARATELY FOR PAYMENT AND THE COST OF THIS REMOVAL WORK SHALL BE CONSIDERED AS INCLUDED IN THE CONTRACT UNIT PRICE FOR EARTH EXCAVATION.

EARTHWORK

7. EARTH EXCAVATION INCLUDES THE REMOVAL OF THE EXISTING BITUMINOUS (OIL & CHIP) ROADWAY SURFACE AND AGGREGATE BASE. THE CONTRACTOR MAY INCORPORATE THESE MATERIALS INTO THE PROPOSED EMBANKMENT. SURPLUS AND/OR UNSUITABLE MATERIAL SHALL BE DISPOSED OUTSIDE THE LIMITS OF THE RIGHT OF WAY ACCORDING TO ARTICLE 202.03 OF THE "STANDARD SPECIFICATIONS FOR ROAD AND BRIDGE CONSTRUCTION."
8. PRIOR TO STARTING EARTHWORK OPERATIONS IN AREAS THAT DO NOT REQUIRE EXCAVATION, THE EXISTING BITUMINOUS (OIL & CHIP) ROADWAY SURFACE SHALL BE SCARIFIED OR BROKEN BY MECHANICAL MEANS, REDUCING ALL PARTICLES TO A SIZE NOT LARGER THAN 4 INCHES IN THE LARGEST DIMENSION. THE COST OF THIS WORK WILL NOT BE PAID FOR SEPARATELY, BUT SHALL BE CONSIDERED AS INCLUDED IN THE CONTRACT UNIT PRICE FOR EARTH EXCAVATION.

PAVING

9. AT VARIOUS LOCATIONS, IT MAY BE NECESSARY TO TRANSITION PROPOSED COMBINATION CONCRETE CURB AND GUTTER TO MEET EXISTING CONDITIONS. THE MINIMUM LENGTH OF TRANSITIONAL COMBINATION CURB AND GUTTER SHALL BE 10 FEET, UNLESS DIRECTED OTHERWISE BY THE ENGINEER.

DRAINAGE

10. STORM SEWER INVERTS SHOWN ON THE PLANS HAVE BEEN CALCULATED TO THE CENTER OF THE STRUCTURE. THE STORM SEWER SLOPES SHOWN ON THE PLANS ARE THE PERCENT GRADE FROM CENTER TO CENTER OF STRUCTURE. THE LENGTH OF STORM SEWERS SHOWN ON THE PLANS IS THE DISTANCE FROM CENTER TO CENTER OF STRUCTURE. STORM SEWER WILL BE MEASURED AND PAID FOR AS SPECIFIED IN ARTICLES 550.09 AND 550.10 OF THE "STANDARD SPECIFICATIONS FOR ROAD AND BRIDGE CONSTRUCTION." FLARED END SECTIONS ARE LOCATED BY STATION, OFFSET AND FLOWLINE ELEVATION AT THE FLARED END OF THE FLARED END SECTION.
11. THE OFFSETS TO ALL INLETS AND MANHOLES ARE GIVEN TO THE CENTER OF THE OPENING AT THE BASE OF THE FRAME AND GRATE OR LID. CONCENTRIC DRAINAGE STRUCTURES WERE ASSUMED WHEN CALCULATING THESE DIMENSIONS.
12. ALL TYPE 3 FRAMES AND GRATES SHALL BE FURNISHED BY THE CONTRACTOR WITH TYPE 3 GRATES AND OPEN CURB BOXES. SEE HIGHWAY STANDARD 604006 AND THE SPECIAL PROVISIONS FOR DETAILS.
13. ALL DRAINAGE STRUCTURES CONSTRUCTED, ADJUSTED OR RECONSTRUCTED UNDER THE CONTRACT, SHALL BE CLEANED OF ANY ACCUMULATION OF SILT, DEBRIS OR FOREIGN MATTER AT THE END OF EACH WORKING DAY AND AT THE TIME OF FINAL INSPECTION. THE COST OF THIS WORK WILL NOT BE PAID FOR SEPARATELY, BUT SHALL BE CONSIDERED AS INCLUDED IN THE CONTRACT UNIT PRICE FOR THE VARIOUS DRAINAGE STRUCTURE ITEMS INCLUDED IN THE CONTRACT.

PAVEMENT MARKING

14. THE PAVEMENT MARKING LOCATIONS SHOWN IN THE PLANS ARE APPROXIMATE. PROPOSED CROSSWALKS AND STOP BARS SHALL BE ADJUSTED AS DIRECTED BY THE ENGINEER, IF NECESSARY, TO MATCH FIELD CONDITIONS.

ELECTRICAL

15. THE LOCATION OF ALL DETECTOR LOOPS SHALL BE APPROVED BY THE ENGINEER BEFORE ANY SLOTS ARE SAWED IN THE PAVEMENT.

APPROXIMATE QUANTITIES, SYMBOLS & ABBREVIATIONS

16. THE FOLLOWING SYMBOLS AND ABBREVIATIONS SUPPLEMENT OR SUPERCEDE HIGHWAY STANDARD 000001:

BO	BY OTHERS (USED IN CONJUNCTION WITH TBA & TBR)
CONSTR	CONSTRUCTION
CP	CONTROL POINT
DND	DO NOT DISTURB
ESMT	EASEMENT
ELEV	ELEVATION
K	LENGTH OF VERTICAL CURVE PER PERCENT GRADE DIFFERENCE
N/F	NOW OR FORMERLY
O/C	OIL AND CHIP
PERM	PERMANENT
PVI	POINT OF VERTICAL INTERSECTION
PVC	POLYVINYL CHLORIDE PIPE
TCE	TEMPORARY CONSTRUCTION EASEMENT
TBA	TO BE ADJUSTED
TBR	TO BE REMOVED
TBRL	TO BE RELOCATED
TYP	TYPICAL
W	WIDTH

COMMITMENTS

NONE

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

GENERAL NOTES & COMMITMENTS

SCALE: NTS SHEET 1 OF 1 SHEETS STA. TO STA.

F.A.U. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
9345	15-00052-00-PV	MONROE	23	2
GALL ROAD INTERSECTION			CONTRACT NO. 97667	
ILLINOIS FED. AID PROJECT				

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PLOT DATE = 1/25/2018	CHECKED -	REVISED -
	DATE -	REVISED -

SI	SP	CODE NO.	ITEM	UNIT	TOTAL QUANTITY
		20100110	TREE REMOVAL (6 TO 15 UNITS DIAMETER)	UNIT	8
	*	20200100	EARTH EXCAVATION	CU YD	990
	*	20800150	TRENCH BACKFILL	CU YD	157
		21101615	TOPSOIL FURNISH AND PLACE, 4"	SO YD	1,346
		28000250	TEMPORARY EROSION CONTROL SEEDING	POUND	50
		28000305	TEMPORARY DITCH CHECKS	FOOT	29
		28000400	PERIMETER EROSION BARRIER	FOOT	440
		28000500	INLET AND PIPE PROTECTION	EACH	11
		28100107	STONE RIPRAP, CLASS A4	SO YD	51
		28200200	FILTER FABRIC	SO YD	51
		31100910	SUBBASE GRANULAR MATERIAL, TYPE A 12"	SO YD	2,057
		35100300	AGGREGATE BASE COURSE, TYPE A 4"	SO YD	514
		40600275	BITUMINOUS MATERIALS (PRIME COAT)	POUND	4,677
		40600290	BITUMINOUS MATERIALS (TACK COAT)	POUND	1,716

SI	SP	CODE NO.	ITEM	UNIT	TOTAL QUANTITY
		40701801	HOT-MIX ASPHALT PAVEMENT (FULL-DEPTH), 6"	SO YD	343
		40701881	HOT-MIX ASPHALT PAVEMENT (FULL-DEPTH), 10"	SO YD	1,736
		40800050	INCIDENTAL HOT-MIX ASPHALT SURFACING	TON	9
		42300200	PORTLAND CEMENT CONCRETE DRIVEWAY PAVEMENT, 6 INCH	SO YD	148
		42400100	PORTLAND CEMENT CONCRETE SIDEWALK 4 INCH	SO FT	1,531
	*	42400800	DETECTABLE WARNINGS	SO FT	46
		44000100	PAVEMENT REMOVAL	SO YD	1,316
		44000200	DRIVEWAY PAVEMENT REMOVAL	SO YD	238
		44000600	SIDEWALK REMOVAL	SO FT	223
		44004250	PAVED SHOULDER REMOVAL	SO YD	102
	*	50105220	PIPE CULVERT REMOVAL	FOOT	82
		54213663	PRECAST REINFORCED CONCRETE FLARED END SECTIONS 18"	EACH	1
		550A2320	STORM SEWERS, RUBBER GASKET, CLASS A, TYPE 1 12"	FOOT	137
		550A2340	STORM SEWERS, RUBBER GASKET, CLASS A, TYPE 1 18"	FOOT	43

NOTES: SP - SEE PROJECT SPECIFIC SPECIAL PROVISIONS
SI - SPECIALTY ITEM

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STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

SUMMARY OF QUANTITIES

SCALE: NTS SHEET 1 OF 3 SHEETS STA. TO STA.

F.A.U. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
9345	10-00052-00-PV	MONROE	23	3
CALL ROAD INTERSECTION		CONTRACT NO. 97667		
ILLINOIS FED. AID PROJECT				

SI	SP	CODE NO.	ITEM	UNIT	TOTAL QUANTITY
		550A2520	STORM SEWERS, RUBBER GASKET, CLASS A, TYPE 2 12"	FOOT	36
		550A2540	STORM SEWERS, RUBBER GASKET, CLASS A, TYPE 2 18"	FOOT	199
		60218400	MANHOLES, TYPE A, 4'-DIAMETER, TYPE 1 FRAME, CLOSED LID	EACH	1
		60218500	MANHOLES, TYPE A, 4'-DIAMETER, TYPE 3 FRAME AND GRATE	EACH	1
		60219540	MANHOLES, TYPE A, 4'-DIAMETER, TYPE 24 FRAME AND GRATE	EACH	2
		60235700	INLETS, TYPE A, TYPE 3 FRAME AND GRATE	EACH	1
		60236200	INLETS, TYPE A, TYPE 8 GRATE	EACH	1
		60237470	INLETS, TYPE A, TYPE 24 FRAME AND GRATE	EACH	1
		60240220	INLETS, TYPE B, TYPE 3 FRAME AND GRATE	EACH	2
		60240328	INLETS, TYPE B, TYPE 24 FRAME AND GRATE	EACH	2
		60605000	COMBINATION CONCRETE CURB AND CUTTER, TYPE B-6.24	FOOT	814
		63200310	GUARDRAIL REMOVAL	FOOT	94
		67100100	MOBILIZATION	L SUM	1
		70300210	TEMPORARY PAVEMENT MARKING LETTERS AND SYMBOLS	SO FT	47.0

SI	SP	CODE NO.	ITEM	UNIT	TOTAL QUANTITY
		70300220	TEMPORARY PAVEMENT MARKING - LINE 4"	FOOT	847
		70300260	TEMPORARY PAVEMENT MARKING - LINE 12"	FOOT	292
		70300280	TEMPORARY PAVEMENT MARKING - LINE 24"	FOOT	80
*		72000100	SIGN PANEL - TYPE 1	SO FT	39.9
*		72400710	RELOCATE SIGN PANEL - TYPE 1	SO FT	17.5
*		72800100	TELESCOPING STEEL SIGN SUPPORT	FOOT	110
*		78000100	THERMOPLASTIC PAVEMENT MARKING - LETTERS AND SYMBOLS	SO FT	47.0
*		78000200	THERMOPLASTIC PAVEMENT MARKING - LINE 4"	FOOT	847
*		78000600	THERMOPLASTIC PAVEMENT MARKING - LINE 12"	FOOT	292
*		78000650	THERMOPLASTIC PAVEMENT MARKING - LINE 24"	FOOT	80
*		81028220	UNDERGROUND CONDUIT, GALVANIZED STEEL, 3" DIA.	FOOT	25
*		81028320	UNDERGROUND CONDUIT, PVC, 1" DIA.	FOOT	36
*		81028340	UNDERGROUND CONDUIT, PVC, 1 1/2" DIA.	FOOT	100
*		81028370	UNDERGROUND CONDUIT, PVC, 3" DIA.	FOOT	24

NOTES: SP - SEE PROJECT SPECIFIC SPECIAL PROVISIONS
SI - SPECIALTY ITEM

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STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

SUMMARY OF QUANTITIES

SCALE: NTS SHEET 2 OF 3 SHEETS STA. TO STA.

F.A.U. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
9345	10-00052-00-PV	MONROE	23	4
GALL ROAD INTERSECTION			CONTRACT NO. 97667	
ILLINOIS FED. AID PROJECT				

SI	SP	CODE NO.	ITEM	UNIT	TOTAL QUANTITY
*		81400700	HANDHOLE, PORTLAND CEMENT CONCRETE	EACH	3
*		87301215	ELECTRIC CABLE IN CONDUIT, SIGNAL NO. 14 2C	FOOT	1,205
*		87301225	ELECTRIC CABLE IN CONDUIT, SIGNAL NO. 14 3C	FOOT	1,233
*		87301245	ELECTRIC CABLE IN CONDUIT, SIGNAL NO. 14 5C	FOOT	2,518
*		87301255	ELECTRIC CABLE IN CONDUIT, SIGNAL NO. 14 7C	FOOT	1,613
*		87301305	ELECTRIC CABLE IN CONDUIT, LEAD-IN, NO. 14 1 PAIR	FOOT	4,334
*		87700340	STEEL MAST ARM ASSEMBLY AND POLE, 58 FT.	EACH	2
*		87800420	CONCRETE FOUNDATION, TYPE E 42-INCH DIAMETER	FOOT	42
*		88040090	SIGNAL HEAD, POLYCARBONATE, LED, 1-FACE, 3-SECTION, MAST ARM MOUNTED	EACH	2
*		88040160	SIGNAL HEAD, POLYCARBONATE, LED, 1-FACE, 5-SECTION, MAST ARM MOUNTED	EACH	1
*		88102825	PEDESTRIAN SIGNAL HEAD, POLYCARBONATE, LED, 1-FACE, BRACKET MOUNTED WITH COUNT DOWN TIMER	EACH	4
*		88200100	TRAFFIC SIGNAL BACKPLATE	EACH	3
*	*	88600200	DETECTOR LOOP, TYPE II	FOOT	442
*		88800100	PEDESTRIAN PUSH-BUTTON	EACH	2

SI	SP	CODE NO.	ITEM	UNIT	TOTAL QUANTITY
*	*	89000100	TEMPORARY TRAFFIC SIGNAL INSTALLATION	EACH	1
*		89500100	RELOCATE EXISTING SIGNAL HEAD	EACH	5
*		89502200	MODIFY EXISTING CONTROLLER	EACH	1
*		89502300	REMOVE ELECTRIC CABLE FROM CONDUIT	FOOT	8,001
*	*	89502375	REMOVE EXISTING TRAFFIC SIGNAL EQUIPMENT	EACH	1
*	*	89502380	REMOVE EXISTING HANDHOLE	EACH	2
*		89502385	REMOVE EXISTING CONCRETE FOUNDATION	EACH	2
*		X0327980	PAVEMENT MARKING REMOVAL - WATER BLASTING	SO FT	170
*		X2500920	SEEDING, CLASS 1A (SPECIAL)	ACRE	0.25
*		X7010216	TRAFFIC CONTROL AND PROTECTION, (SPECIAL)	L SUM	1
*		X7030005	TEMPORARY PAVEMENT MARKING REMOVAL	SO FT	781
*	*	X8030110	LOCATING UNDERGROUND CABLE, SPECIAL	EACH	1
*	*	X8950450	REMOVE EXISTING UNDERGROUND CONDUIT	FOOT	131
#	*	Z0076600	TRAINEES	HOUR	500
#	*	Z0076604	TRAINEES TRAINING PROGRAM GRADUATE	HOUR	500

NOTES: SP - SEE PROJECT SPECIFIC SPECIAL PROVISIONS
SI - SPECIALTY ITEM
- 0042

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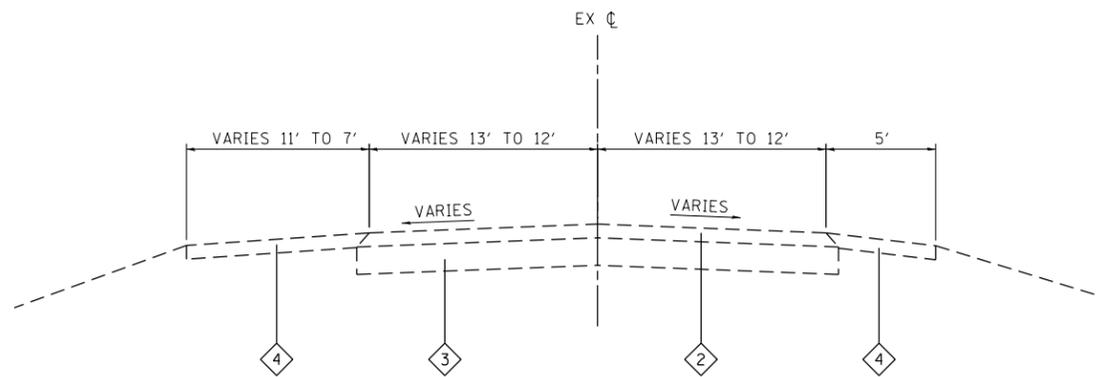
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STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

SUMMARY OF QUANTITIES

SCALE: NTS SHEET 3 OF 3 SHEETS STA. TO STA.

F.A.U. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
9345	10-00052-00-FV	MONROE	23	5
GALL ROAD INTERSECTION			CONTRACT NO. 97667	
ILLINOIS FED. AID PROJECT				

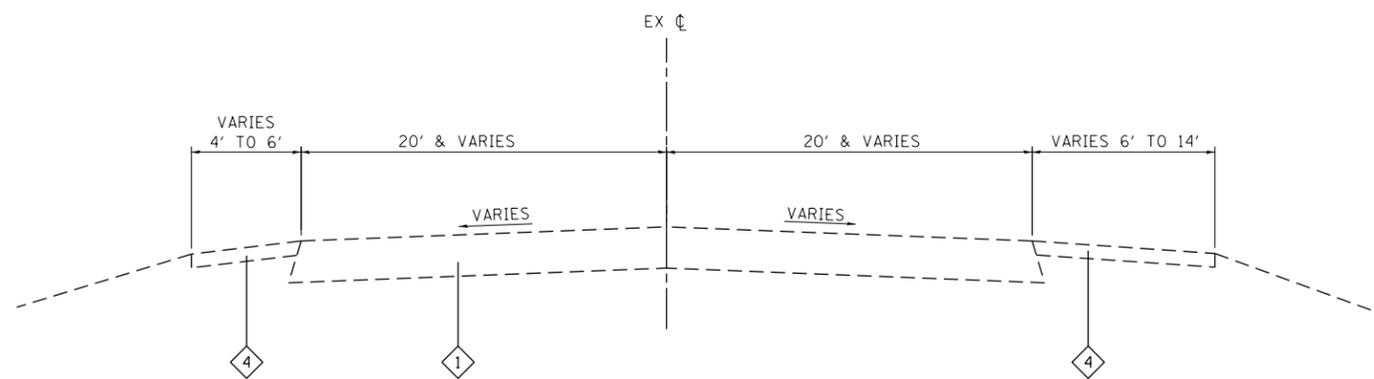


EXISTING GALL ROAD

STA. 11+80 TO STA. 14+41

TYPICAL SECTION LEGEND

- ① EXISTING HMA PAVEMENT, 11"
- ② EXISTING OIL & CHIP SURFACE TREATMENT
- ③ EXISTING AGGREGATE SUBBASE
- ④ EXISTING AGGREGATE SHOULDER



EXISTING GALL ROAD

STA. 10+46 TO STA. 11+80

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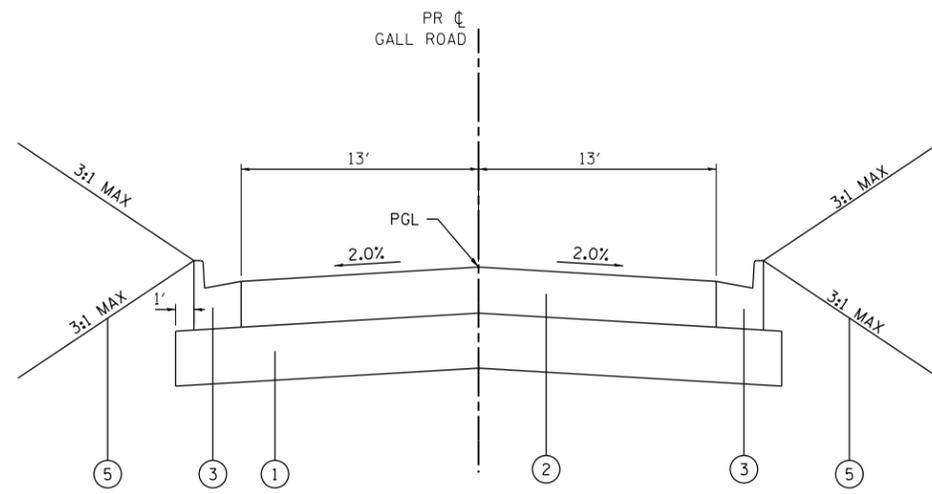
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	DATE -	REVISED -

**STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION**

TYPICAL SECTIONS
SCALE: NTS SHEET 1 OF 2 SHEETS STA. TO STA.

F.A.U. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
9345	15-00052-00-PV	MONROE	23	6
GALL ROAD INTERSECTION			CONTRACT NO. 97667	
ILLINOIS FED. AID PROJECT				

STRUCTURAL DESIGN TRAFFIC:	YEAR:	2038	
PV = 2,074	SU = 165	MU = 118	
ROAD/STREET CLASSIFICATION:	CLASS:	III	
PERCENT OF STRUCTURAL DESIGN TRAFFIC IN DESIGN LANE:			
P = 88%	S = 7%	M = 5%	
TRAFFIC FACTOR:	ACTUAL =	0.64	
	MIN =	0.5	
PG GRADE:	BINDER:	64-22	SURFACE: 64-22
STRUCTURAL SUPPORT RATING:		SSR = POOR	



PROPOSED GALL ROAD
STA. 13+39 TO STA. 14+21

TYPICAL SECTION LEGEND

- ① PROPOSED SUBBASE GRANULAR MATERIAL, TYPE A, 12"
- ② PROPOSED HMA PAVEMENT (FULL DEPTH), 10"
- ③ PROPOSED COMBINATION CURB & GUTTER, TYPE B-6.24
- ④ PROPOSED PCC SIDEWALK, 4"
- ⑤ PROPOSED TOPSOIL FURNISH AND PLACE, 4"

TYPICAL SECTION NOTES

- ① LANE WIDTH VARIES FROM 13' AT STA. 12+35 TO 0' AT STA. 13+39
- ② SEE SUPERELEVATION TABLE FOR TRANSITION RATE AND CROSS SLOPES
- ③ SIDEWALK ENDS AT STA. 11+85
- ④ GUTTER PAN TO BE INVERTED FROM STA. 10+46 RT TO STA. 11+69 RT

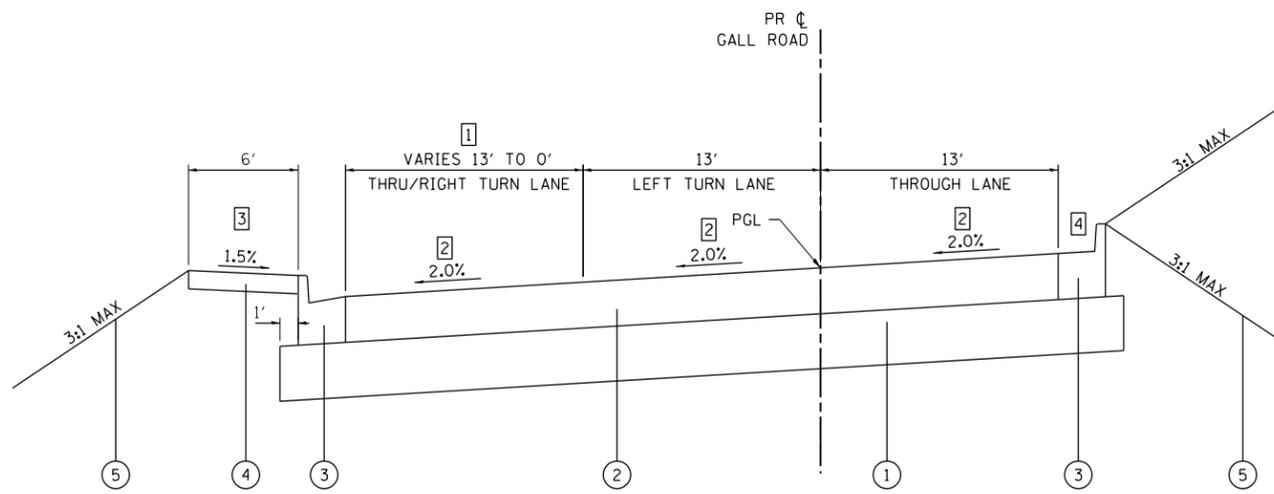
SUPERELEVATION TABLE

STATION	DESCRIPTION	X-SLOPE LT	X-SLOPE RT
10+46	RT 3 INT	-0.7%	+0.7%
10+86	T.R.	-1.5%	+1.5%
11+00	FULL S.E.	-2.0%	+2.0%
12+53	FULL S.E.	-2.0%	+2.0%
12+80	T.R.	-2.0%	0.0%
13+07	END S.E.	-2.0%	-2.0%

MIXTURES TABLE

MIXTURE USE	FULL DEPTH SURFACE	BINDER	INCIDENTAL SURFACING
THICKNESS	2"	8" •, 4" ••	3"
AC/PG	PG 64-22	PG 64-22	PG 64-22
RAP % (MAX)	SEE BDE SPECIAL PROVISIONS	SEE BDE SPECIAL PROVISIONS	SEE BDE SPECIAL PROVISIONS
DESIGN AIR VOIDS	4.0% @ Ndes=70	4.0% @ Ndes=70	4.0% @ Ndes=70
MIX COMPOSITION	IL-9.5	IL-19.0	IL-9.5
FRICTION AGG	MIXTURE "C"		MIXTURE "C"

NOTES:
 • ROADWAY
 •• PRIVATE ENTRANCE



PROPOSED GALL ROAD
STA. 10+46 TO STA. 13+39

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PLOT SCALE = 40.0000' / in.	DRAWN -	REVISED -
PLOT DATE = 1/27/2018	CHECKED -	REVISED -
	DATE -	REVISED -

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

TYPICAL SECTIONS
 SCALE: NTS SHEET 2 OF 2 SHEETS STA. TO STA.

F.A.U. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
9345	15-00052-00-PV	MONROE	23	7
GALL ROAD INTERSECTION			CONTRACT NO. 97667	
ILLINOIS FED. AID PROJECT				

ENTRANCE

STATION	OFFSET	ENTRANCE TYPE (NOTE 1)	ENTRANCE WIDTH "W" (FOOT)	ENTRANCE DEPTH "D" (FOOT)	EXISTING SURFACE TYPE	AGG BSE CSE A 4 (SQ YD)	BIT MATL PR CT (NOTE 2&3) (POUND)	BIT MATL TACK CT (NOTE 2&3) (POUND)	HMA PAVT FD 6 (SQ YD)	PCC DRIVEWAY PAVT 6 (SQ YD)	DRIVEWAY PAVEMENT REM (SQ YD)
11+78.5	RT	CONC	26	16.5	HMA	424	772	154	343	60	139
13+60.5	LT	CONC	25	25	HMA	90				88	99
TOTAL						514	772	154	343	148	238

ENTRANCE NOTES:

- DEPRESSED CURB AND GUTTER THROUGH ENTRANCES SHALL BE MEASURED FOR PAYMENT AS COMBINATION CONCRETE CURB AND GUTTER, TYPE B-6.18.
- ASSUMES 1 APPLICATION OF PRIME COAT AND 2 APPLICATIONS OF TACK COAT. APPLICATION RATES:
BITUMINOUS MATERIAL (PRIME COAT): 0.25 LBS / SQ FT
BITUMINOUS MATERIAL (TACK COAT): 0.05 LBS / SQ FT
- NOT A TOTAL QUANTITY.

EARTHWORK

STATION	STATION	EARTH EXCAVATION (CU YD)	EARTH EXCAVATION ADJUSTED FOR SHRINKAGE (NOTE 1) (CU YD)	EMBANKMENT (NOTE 2) (CU YD)	EARTHWORK BALANCE WASTE (+) OR SHORTAGE (-) (NOTE 3) (CU YD)
10+46	14+41	990	743	115	628
TOTAL		990	743	115	628

EARTHWORK NOTES:

- ESTIMATED SHRINKAGE FACTOR = 25%.
- APPROXIMATE EMBANKMENT QUANTITY IS SHOWN FOR INFORMATION ONLY.
- APPROXIMATE EARTHWORK BALANCE IS SHOWN FOR INFORMATION ONLY.

PAVEMENT

STATION	STATION	OFFSET	SUB GRAN MAT A 12 (SQ YD)	HMA PAVT FD 10 (NOTE 1&2) (SQ YD)	PAVEMENT REM (SQ YD)	PVD SHLDR REM (SQ YD)	BIT MATL PR CT (NOTE 1&3) (POUND)	BIT MATL TACK CT (NOTE 1&3) (POUND)	INC HMA SURF (NOTE 1) (TON)
10+45	14+21	LT/RT	2,057	1,736	1,316	102	3,905	1,562	
14+21	14+41	LT/RT							9
TOTAL			2,057	1,736	1,316	102	3,905	1,562	9

PAVEMENT NOTES:

- APPLICATION RATES USED FOR QUANTITY ESTIMATES ARE AS FOLLOWS:
HOT-MIX ASPHALT: 112 LBS/ SY / INCH THICKNESS
BITUMINOUS MATERIAL (PRIME COAT): 0.25 LBS / SQ FT
BITUMINOUS MATERIAL (TACK COAT): 0.05 LBS / SQ FT
- THE PROPOSED SURFACE COURSE SHALL BE 2 IN. THICK.
- ASSUMES 1 APPLICATION OF PRIME COAT AND 2 APPLICATIONS OF TACK COAT. NOT A TOTAL QUANTITY.

SIDEWALK

STATION	STATION	OFFSET	PC CONC SIDEWALK 4 (NOTE 1) (SQ FT)	DETECTABLE WARNINGS (NOTE 1) (SQ FT)	SIDEWALK REM (SQ FT)
10+55	10+89	RT	171	23	177
10+88	12+35	LT	1,310	23	
11+54	11+59	RT	50		46
TOTAL			1,531	46	223

SIDEWALK NOTES:

- SIDEWALK RAMPS ACCESSIBLE TO THE DISABLED ARE REQUIRED. SEE PLAN SHEETS FOR LOCATIONS AND TYPES. SEE CONSTRUCTION DETAILS SHEET AND HIGHWAY STANDARDS FOR CURB RAMP DETAILS.

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PLOT DATE = 1/27/2018	DATE -	REVISED -

**STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION**

SCHEDULE OF QUANTITIES

SCALE: NTS SHEET 1 OF 2 SHEETS STA. TO STA.

F.A.U. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
9345	15-00052-00-PV	MONROE	23	8
GALL ROAD INTERSECTION			CONTRACT NO. 97667	
ILLINOIS FED. AID PROJECT				

PAVEMENT MARKING

STATION	STATION	OFFSET	COMMENT	COLOR	TEMP PVT MK LTRS & SYMB (NOTE 2) (SQ FT)	TEMP PVT MK LINE 4 (NOTE 2) (FOOT)	TEMP PVT MK LINE 12 (NOTE 2) (FOOT)	TEMP PVT MK LINE 24 (NOTE 2) (FOOT)	TEMP PVT MK REM (NOTE 2) (SQ FT)	PAVT MK REM WTR BL (SQ FT)	THPL PVT MK LTRS & SYMB (NOTE 1) (SQ FT)	THPL PVT MK LINE 4 (NOTE 1) (FOOT)	THPL PVT MK LINE 12 (NOTE 1) (FOOT)	THPL PVT MK LINE 24 (NOTE 1) (FOOT)
GALL ROAD														
10+80	14+21	CL	DOUBLE CL	YELLOW		682			227			682		
10+80	12+35	LT	SOLID LANE LINE	WHITE		141			47			141		
	11+05	LT	TURN LANE ARROWS	WHITE	23.5				24		23.5			
	12+10	LT	TURN LANE ARROWS	WHITE	23.5				24		23.5			
12+35	13+34	LT	2'-6' SKIP DASH	WHITE		24			8			24		
INTERSECTIONS														
IL ROUTE 3		RT	X WALK & STOP BAR	WHITE			114	40	194	170			114	40
GALL ROAD		LT/RT	X-WALK & STOP BAR	WHITE			178	40	258				178	40
TOTAL					47.0	847	292	80	781	170	47.0	847	292	80

PAVEMENT MARKING NOTES:

- SEE HIGHWAY STANDARD 780001 FOR PAVEMENT MARKING DETAILS.
- TEMPORARY PAVEMENT MARKINGS TO BE PLACED AT THE ENGINEER'S DISCRETION

CURB & GUTTER

STATION	STATION	OFFSET	COMB CC&G TB6.24 (NOTE 1) (FOOT)
10+40	11+67	RT	178
10+83	13+48	LT	311
11+92	14+21	RT	256
13+72	14+21	LT	69
TOTAL			814

CURB & GUTTER NOTES:

- THE TRANSITION FROM TYPE B-6.24 CC&G SHALL BE 15' AND MEASURED FOR PAYMENT AS COMBINATION CONCRETE CURB AND GUTTER, TYPE B-6.24.

SIGN

STATION	OFFSET	MUTCD TYPE	DESCRIPTION	SIZE (IN X IN)	SIGN PANEL T1 (SQ FT)	TELES STL SIN SUPPORT (FOOT)	RELOC SIGN PANEL T1 (SQ FT)	NOTES
8+97	57	RT	R10-3e L	PUSH BUTTON TO CROSS	9 X 15	0.9		
10+68	40	RT	R10-3e R	PUSH BUTTON TO CROSS	9 X 15	0.9		
10+68	40	RT	R10-3e L	PUSH BUTTON TO CROSS	9 X 15	0.9		
10+86	56	LT	R10-3e R	PUSH BUTTON TO CROSS	9 X 15	0.9		
10+35	67	LT	R10-12	YIELD ON GREEN	30 X 36		7.5	RELOCATE EX SIGN ON NEW MAST ARM
10+62	60	LT	R3-2	STREET NAME	48 X 30		10	RELOCATE EX SIGN ON NEW MAST ARM
11+25	20	RT	R2-1	SPEED LIMIT	24 X 30	5	16	20 MPH
11+89	91	RT	K-2897	ENTRANCE ONLY	30 X 18	3.75	15	
11+98	23	RT	R1-1	STOP SIGN	30 X 30	6.25	18	
			R10-7	DO NOT BLOCK INT	24 X 30	5		
13+35	23	LT	R3-7L	LEFT LANE MUST TURN LEFT	30 X 30	6.25	16	
13+75	20	RT	R2-1	SPEED LIMIT	24 X 30	5	16	25 MPH
13+95	23	LT	R2-1	SPEED LIMIT	24 X 30	5	16	20 MPH
TOTALS					39.9	110	17.5	

SIGN NOTES

- SEE SIGNING SHEET AND TRAFFIC SIGNAL SHEET FOR ADDITIONAL INFORMATION

SEEDING

STATION	STATION	OFFSET	SEEDING CL 1A SP (ACRE)	NITROGEN FERT NUTR (NOTE 1) (POUND)	PHOSPHORUS FERT NUTR (NOTE 1) (POUND)	POTASSIUM FERT NUTR (NOTE 1) (POUND)	MULCH METHOD 2 (NOTE 1) (ACRE)	TEMP EROS CNTL SEEDING (NOTE 2) (POUND)	TOPSOIL FURNISH & PLACE 4" (SQ YD)
10+46	11+78	RT	0.09	8	8	8	0.09	18	467
10+40	13+60	LT	0.07	6	6	6	0.07	14	370
11+78	14+40	RT	0.08	7	7	7	0.08	16	429
13+60	14+40	LT	0.01	1	1	1	0.01	2	80
TOTAL			0.25	22	22	22	0.25	50	1,346

SEEDING NOTES:

- FERTILIZER AND MULCH QUANTITIES ARE SHOWN FOR INFORMATION ONLY. THE COST FOR FERTILIZER NUTRIENTS AND MULCH SHALL BE INCLUDED IN THE CONTRACT UNIT PRICE FOR SEEDING, CLASS 1A (SPECIAL). THE APPLICATION RATE FOR FERTILIZER NUTRIENTS IS 90 LBS/ACRE FOR ESTIMATION PURPOSES.
- SEEDING APPLICATION RATE IS 100 LBS/ACRE AND ASSUMES 2 APPLICATIONS.

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**STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION**

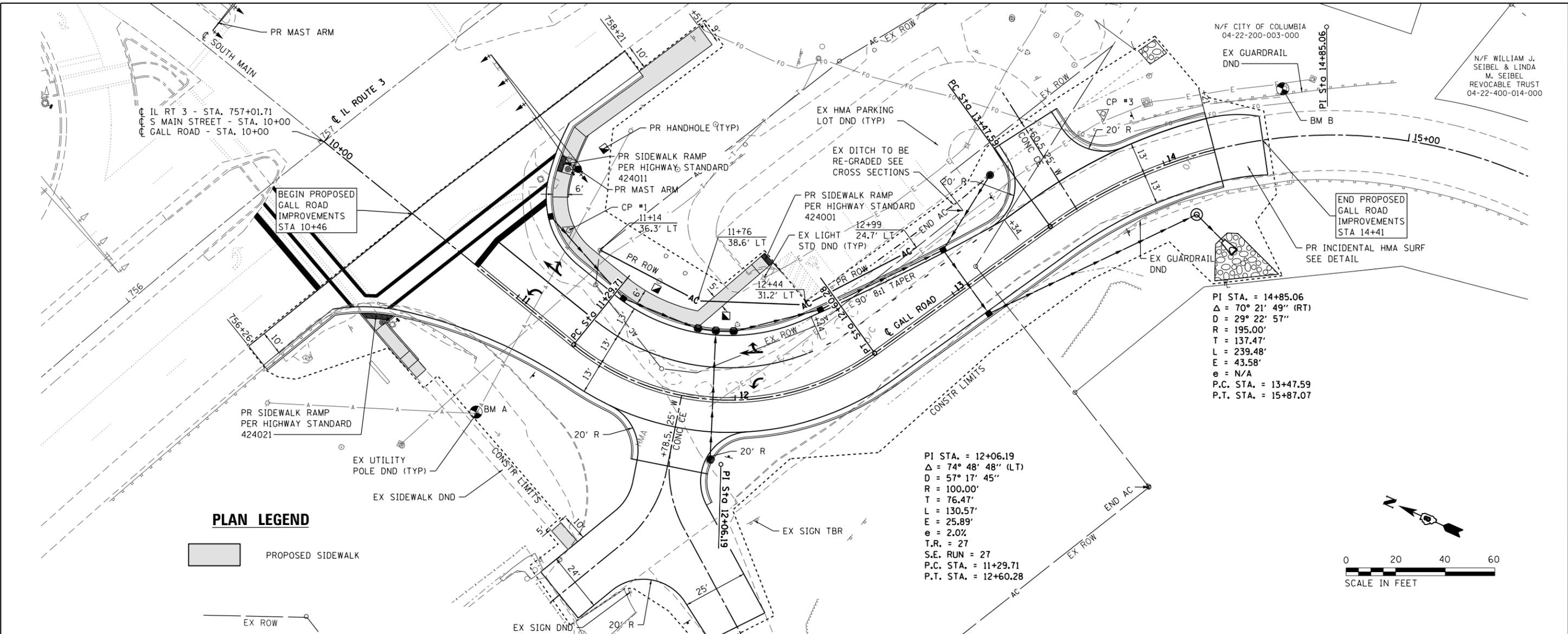
SCHEDULE OF QUANTITIES	
SCALE: NTS	SHEET 2 OF 2 SHEETS STA. TO STA.

F.A.U. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
9345	10-00052-00-PV	MONROE	23	9
GALL ROAD INTERSECTION			CONTRACT NO. 97667	
ILLINOIS FED. AID PROJECT				

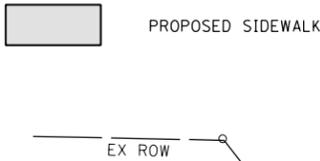
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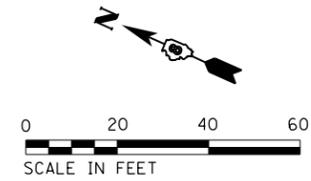


PLAN LEGEND



N/F CITY OF COLUMBIA
 04-22-200-003-000
 EX GUARDRAIL
 DND
 PI Sta 14+85.06
 BM B
 END PROPOSED
 GALL ROAD
 IMPROVEMENTS
 STA 14+41
 PR INCIDENTAL HMA SURF
 SEE DETAIL
 PI STA. = 14+85.06
 Δ = 70° 21' 49" (RT)
 D = 29° 22' 57"
 R = 195.00'
 T = 137.47'
 L = 239.48'
 E = 43.58'
 e = N/A
 P.C. STA. = 13+47.59
 P.T. STA. = 15+87.07

PI STA. = 12+06.19
 Δ = 74° 48' 48" (LT)
 D = 57° 17' 45"
 R = 100.00'
 T = 76.47'
 L = 130.57'
 E = 25.89'
 e = 2.0%
 T.R. = 27
 S.E. RUN = 27
 P.C. STA. = 11+29.71
 P.T. STA. = 12+60.28



500	CP #1: IRON BAR W/ CAP STA 10+99.2, 34.5' LT N: 644,063.11 E: 2,289,669.51	BM "A" R.R. SPIKE IN UTILITY POLE STA 11+16.20, 45.9' RT ELEV = 490.46	500
495			495
490	BEGIN PROPOSED GALL ROAD IMPROVEMENTS STA 10+46	PROPOSED GRADE LINE	490
485			485
480			480
475			475
	490.34 490.32	490.19 489.82	490.22 489.32
	10+50	11+00	11+50
			12+00
			12+50
			13+00
			13+50
			14+00
			490.63 490.61



USER NAME = brandon.rosemann	DESIGNED -	REVISED -
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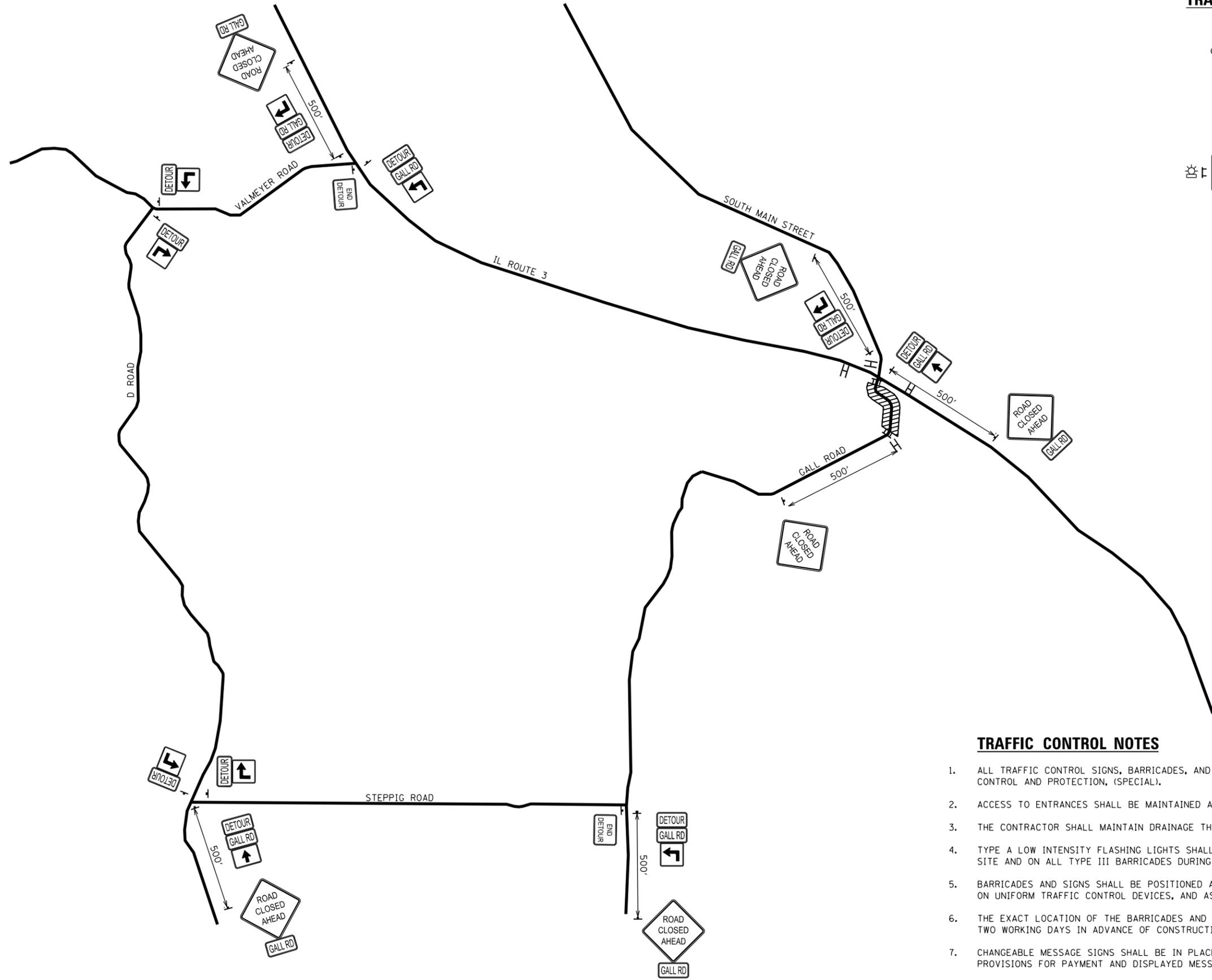
**STATE OF ILLINOIS
 DEPARTMENT OF TRANSPORTATION**

PLAN & PROFILE SHEET
 SCALE: 1" = 20'
 SHEET 1 OF 1 SHEETS
 STA. 10+46 TO STA. 14+40

F.A.U. RT. 9345	SECTION 15-00052-00-PV	COUNTY MONROE	TOTAL SHEETS 23	SHEET NO. 10
GALL ROAD INTERSECTION			CONTRACT NO. 97667	
ILLINOIS FED. AID PROJECT				

TRAFFIC CONTROL PLAN LEGEND

-  ROAD CLOSED AHEAD
W20-3 (48" x 48") (FLUORESCENT ORANGE)
-  SPECIAL (24" x 24") (FLUORESCENT ORANGE)
-  SPECIAL (24" x 24") (FLUORESCENT ORANGE)
-  ROAD CLOSED
TYPE III BARRICADES WITH R-11-2 (60" x 30") (WHITE) AND TYPE A LOW INTENSITY FLASHING LIGHTS
-  DETOUR
M4-8 (24" x 12") (ORANGE)
-  END DETOUR
M4-8a (24" x 18") (ORANGE)
-  M6-3 (21" x 15") (FLOURESCENT ORANGE)
-  GALL RD
SPECIAL
-  TRAFFIC CONTROL SIGN LOCATION
-  TYPE A LOW INTENSITY FLASHING LIGHT
-  WORK AREA
-  CHANGEABLE MESSAGE SIGN



TRAFFIC CONTROL NOTES

1. ALL TRAFFIC CONTROL SIGNS, BARRICADES, AND MAINTENANCE TO BE INCLUDED IN THE COST OF TRAFFIC CONTROL AND PROTECTION, (SPECIAL).
2. ACCESS TO ENTRANCES SHALL BE MAINTAINED AT ALL TIMES.
3. THE CONTRACTOR SHALL MAINTAIN DRAINAGE THROUGHOUT CONSTRUCTION.
4. TYPE A LOW INTENSITY FLASHING LIGHTS SHALL BE USED ON THE FIRST SIGN IN ADVANCE OF THE WORK SITE AND ON ALL TYPE III BARRICADES DURING HOURS OF DARKNESS.
5. BARRICADES AND SIGNS SHALL BE POSITIONED AS SHOWN, ACCORDING TO HIGHWAY STANDARDS, THE MANUAL ON UNIFORM TRAFFIC CONTROL DEVICES, AND AS DIRECTED BY THE ENGINEER.
6. THE EXACT LOCATION OF THE BARRICADES AND SIGNS SHALL BE STAKED IN THE FIELD BY THE CONTRACTOR TWO WORKING DAYS IN ADVANCE OF CONSTRUCTION OPERATIONS FOR APPROVAL BY THE ENGINEER.
7. CHANGEABLE MESSAGE SIGNS SHALL BE IN PLACE 2 WEEKS PRIOR TO ROAD CLOSURE. SEE SPECIAL PROVISIONS FOR PAYMENT AND DISPLAYED MESSAGE.

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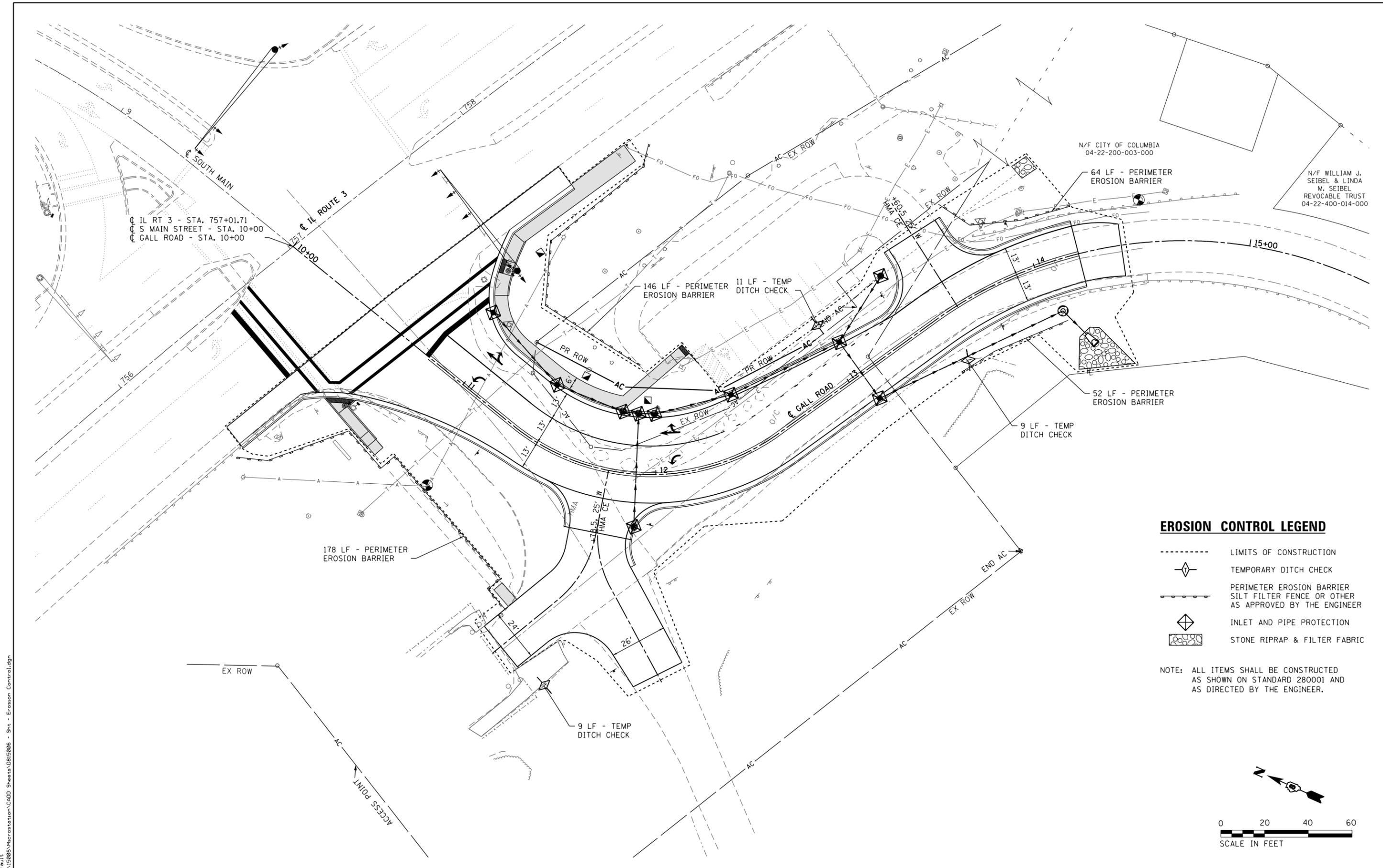

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 Consulting Engineers
 ILLINOIS DESIGN FIRM LICENSE NO: 184.001115

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	DATE -	REVISED -

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

TRAFFIC CONTROL PLAN			
SCALE:	SHEET 1	OF 1	SHEETS
	STA.		TO STA.

F.A.U. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
9345	10-00052-00-PV	MONROE	23	11
GALL ROAD INTERSECTION			CONTRACT NO. 97667	
ILLINOIS FED. AID PROJECT				



N/F CITY OF COLUMBIA
04-22-200-003-000

N/F WILLIAM J. SEIBEL & LINDA M. SEIBEL
REVOCABLE TRUST
04-22-400-014-000

IL RT 3 - STA. 757+01.71
S MAIN STREET - STA. 10+00
GALL ROAD - STA. 10+00

146 LF - PERIMETER EROSION BARRIER
11 LF - TEMP DITCH CHECK

64 LF - PERIMETER EROSION BARRIER

52 LF - PERIMETER EROSION BARRIER
9 LF - TEMP DITCH CHECK

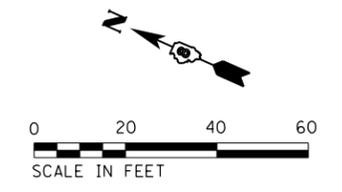
178 LF - PERIMETER EROSION BARRIER

9 LF - TEMP DITCH CHECK

EROSION CONTROL LEGEND

- LIMITS OF CONSTRUCTION
- ◇ TEMPORARY DITCH CHECK
- PERIMETER EROSION BARRIER
SILT FILTER FENCE OR OTHER
AS APPROVED BY THE ENGINEER
- ◇ INLET AND PIPE PROTECTION
- ▣ STONE RIPRAP & FILTER FABRIC

NOTE: ALL ITEMS SHALL BE CONSTRUCTED AS SHOWN ON STANDARD 280001 AND AS DIRECTED BY THE ENGINEER.



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**STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION**

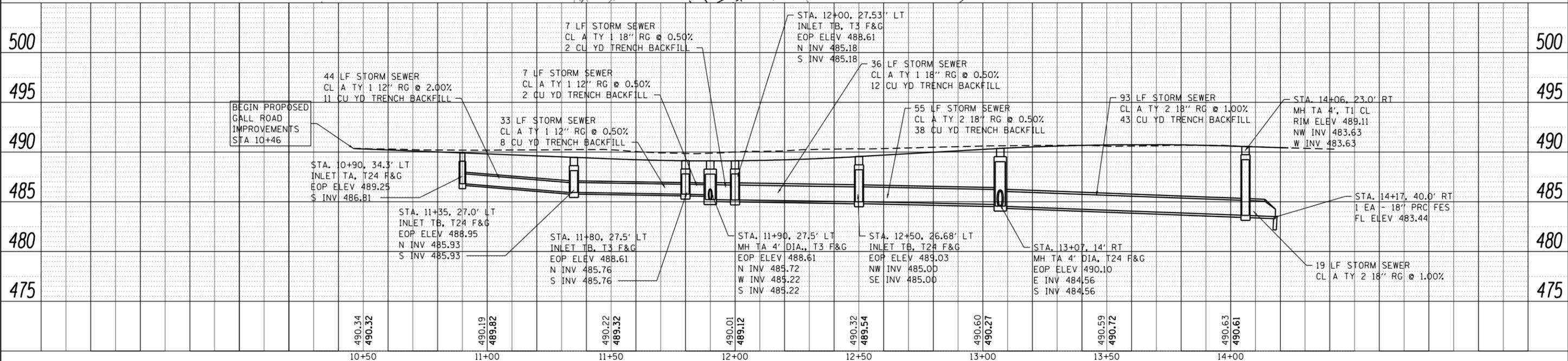
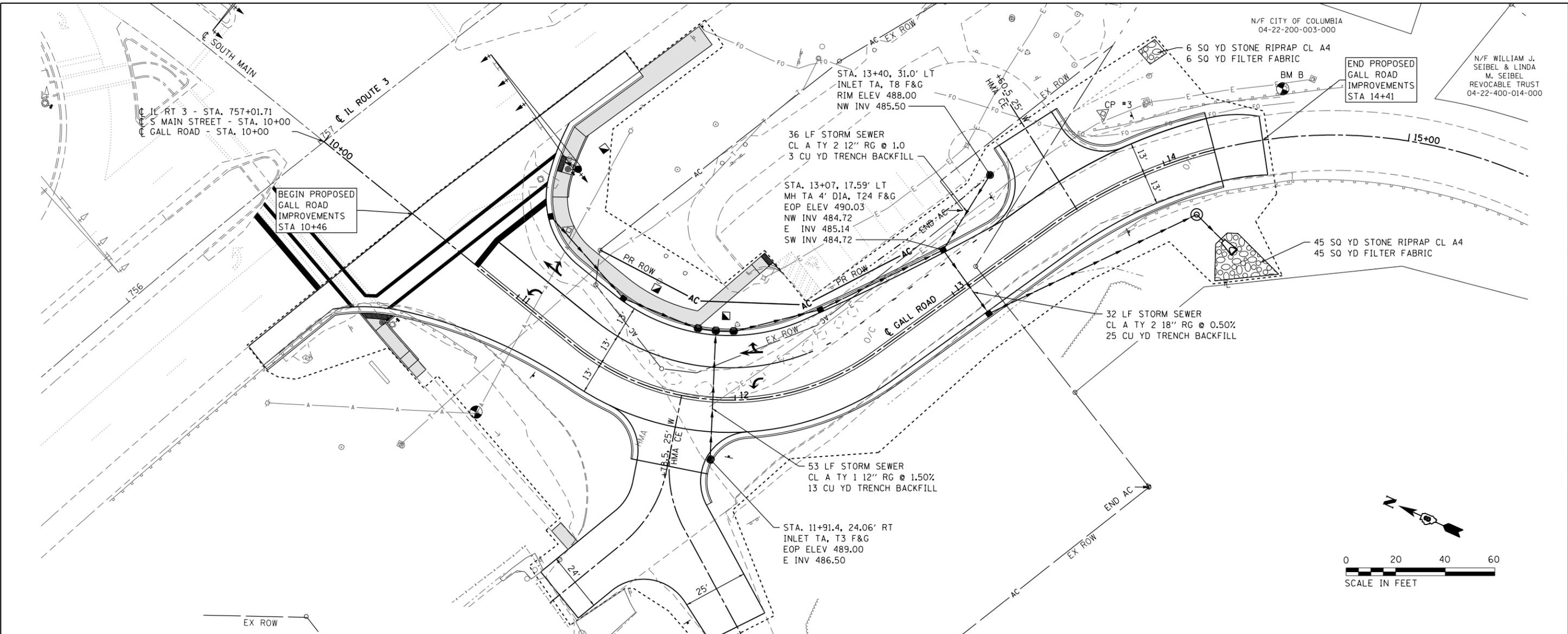
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SCALE:	SHEET 1 OF 1 SHEETS STA. TO STA.

F.A.U. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
9345	15-00052-00-PV	MONROE	23	12
GALL ROAD INTERSECTION			CONTRACT NO. 97667	
ILLINOIS FED. AID PROJECT				

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	PLOTTED	BY
	ALIGNED	
	CHECKED	
	FILED	
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PROFILE	SURVEYED	DATE
	PLOTTED	BY
	GRADES CHECKED	
	STRUCTURE NOTATIONS OK'D	
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10+50	11+00	11+50	12+00	12+50	13+00	13+50	14+00
490.34 490.32	490.19 489.82	490.22 489.32	490.01 489.12	490.32 489.54	490.60 490.27	490.59 490.72	490.63 490.61

DATES ASSOCIATES
 Consulting Engineers
 ILLINOIS DESIGN FIRM LICENSE NO. 184.001115

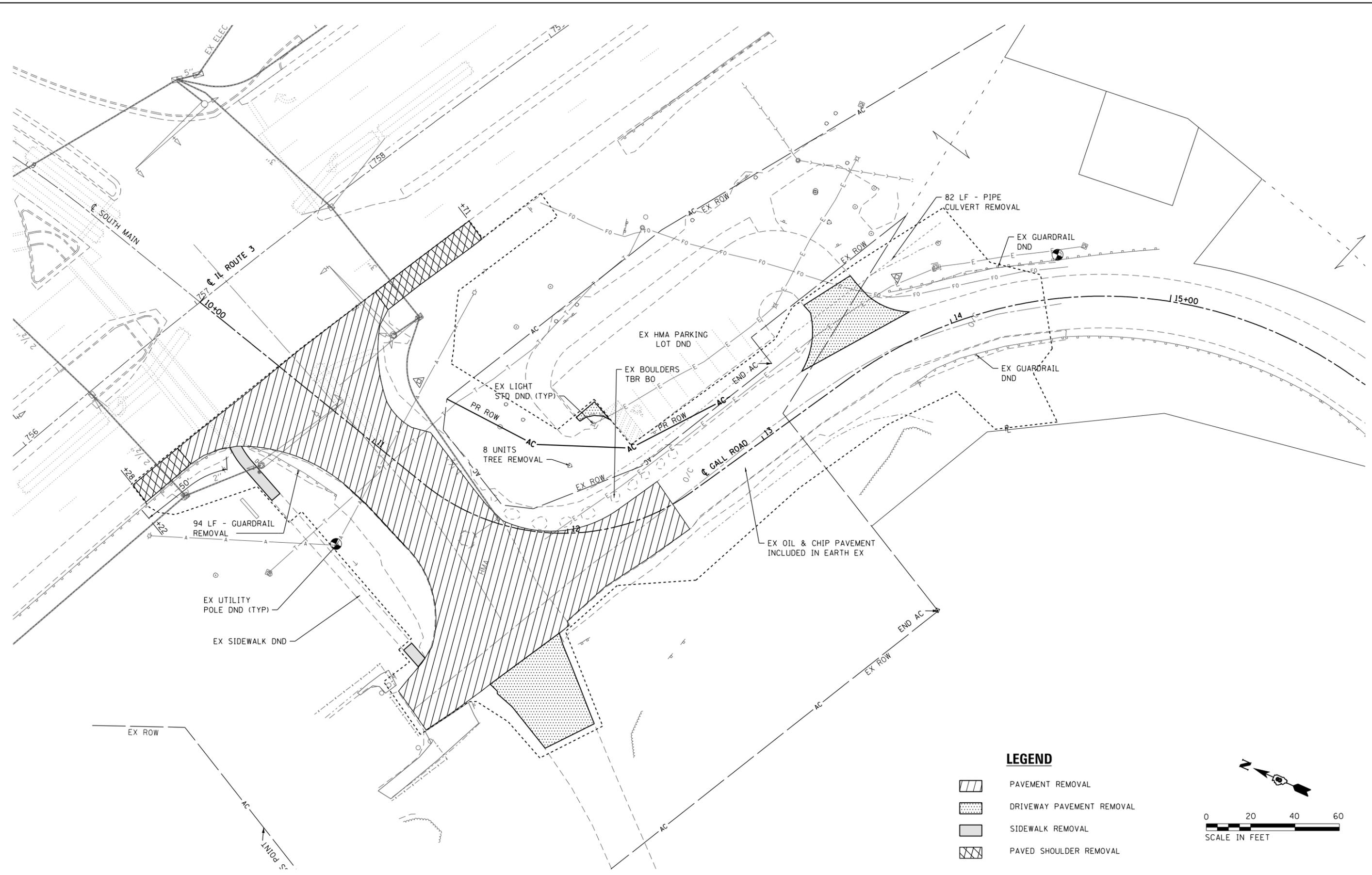
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	DATE -	REVISED -

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

DRAINAGE SHEET	
SCALE: 1" = 20'	SHEET 1 OF 1 SHEETS
STA. 10+46	TO STA. 14+40

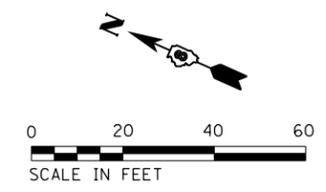
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GALL ROAD INTERSECTION			CONTRACT NO. 97667	
ILLINOIS FED. AID PROJECT				

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LEGEND

-  PAVEMENT REMOVAL
-  DRIVEWAY PAVEMENT REMOVAL
-  SIDEWALK REMOVAL
-  PAVED SHOULDER REMOVAL



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 ILLINOIS DESIGN FIRM LICENSE NO: 184.001115

USER NAME = brandon.ratermann	DESIGNED -	REVISED -
PLOT SCALE = 40.0000' / in.	DRAWN -	REVISED -
PLOT DATE = 1/27/2018	CHECKED -	REVISED -
	DATE -	REVISED -

**STATE OF ILLINOIS
 DEPARTMENT OF TRANSPORTATION**

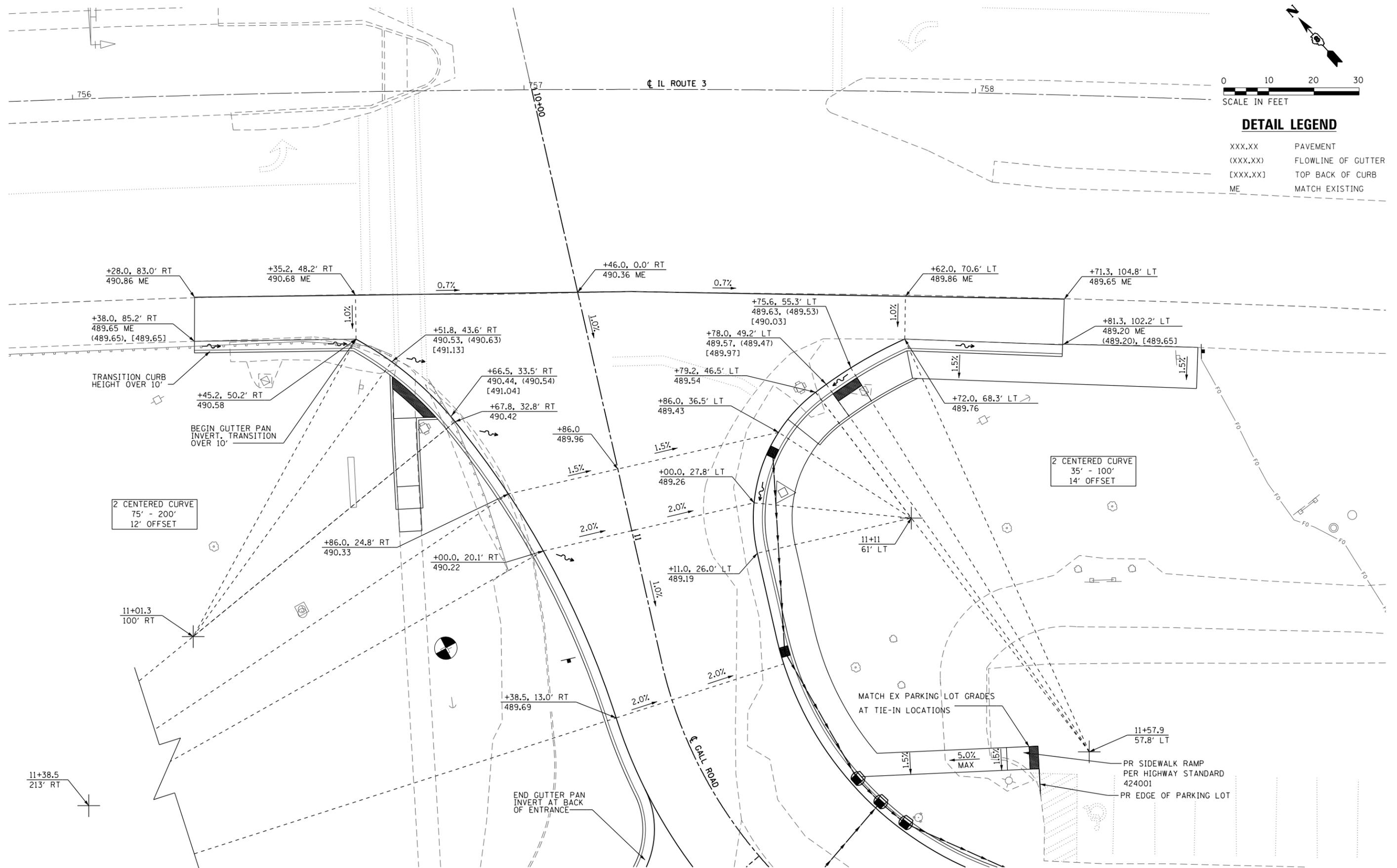
REMOVAL SHEET	
SCALE: 1" = 20"	SHEET 1 OF 1 SHEETS
STA.	TO STA.

F.A.U. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
9345	15-00052-00-PV	MONROE	23	14
GALL ROAD INTERSECTION			CONTRACT NO. 97667	
ILLINOIS FED. AID PROJECT				



DETAIL LEGEND

- XXX.XX PAVEMENT
- (XXX.XX) FLOWLINE OF GUTTER
- [XXX.XX] TOP BACK OF CURB
- ME MATCH EXISTING



MODEL NAME = Full1.dwg
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 ILLINOIS DESIGN FIRM LICENSE NO: 184.001115



USER NAME = brandon.rotermann	DESIGNED -	REVISED -
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PLOT DATE = 1/27/2018	CHECKED -	REVISED -
	DATE -	REVISED -

**STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION**

INTERSECTION DETAILS

SCALE: 1" = 10' SHEET 1 OF 2 SHEETS STA. TO STA.

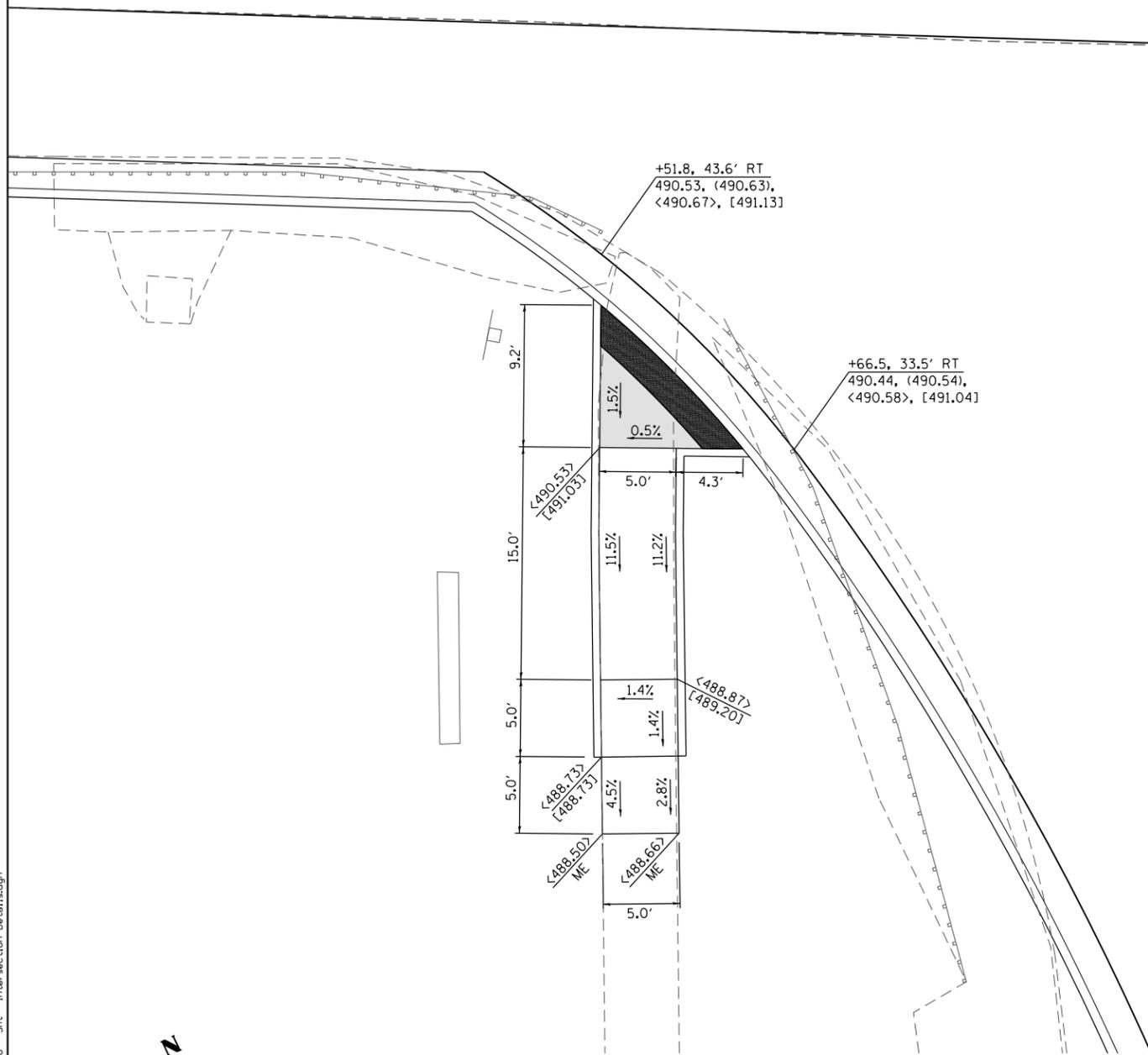
F.A.U. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
9345	15-00052-00-PV	MONROE	23	15
GALL ROAD INTERSECTION			CONTRACT NO. 97667	

ILLINOIS FED. AID PROJECT

SOUTHWEST QUADRANT

IL ROUTE 3 & GALL ROAD

IL ROUTE 3



DETAIL LEGEND

- XXX.XX PAVEMENT
- (XXX.XX) FLOWLINE OF GUTTER
- <XXX.XX> SIDEWALK
- [XXX.XX] TOP OF CURB
- ME MATCH EXISTING
- FLAT LANDING AREA (2% MAX ALL DIRECTIONS)

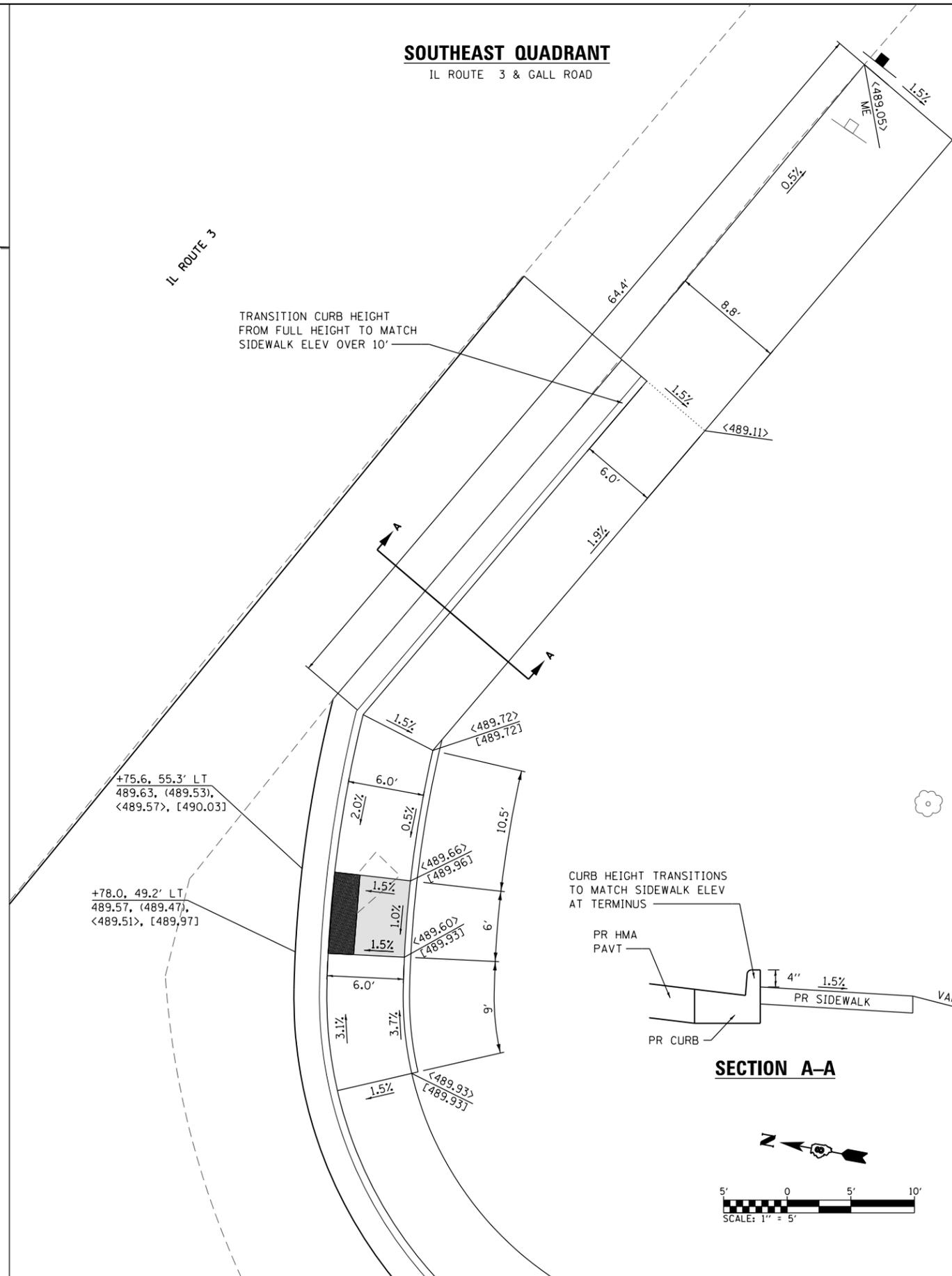


SOUTHEAST QUADRANT

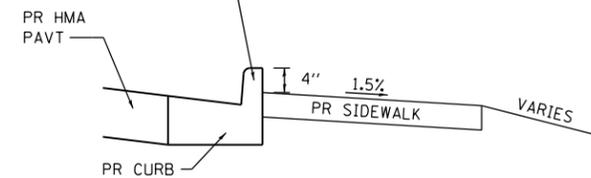
IL ROUTE 3 & GALL ROAD

IL ROUTE 3

TRANSITION CURB HEIGHT FROM FULL HEIGHT TO MATCH SIDEWALK ELEV OVER 10'



CURB HEIGHT TRANSITIONS TO MATCH SIDEWALK ELEV AT TERMINUS



SECTION A-A



MODEL NAME = Default; FILE NAME = H:\P\15006\Mapstation\CADD_Sheets\DB15006 - Sht. - Intersection_Details.dgn



USER NAME = brandon.ratermann	DESIGNED -	REVISED -
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	DATE -	REVISED -

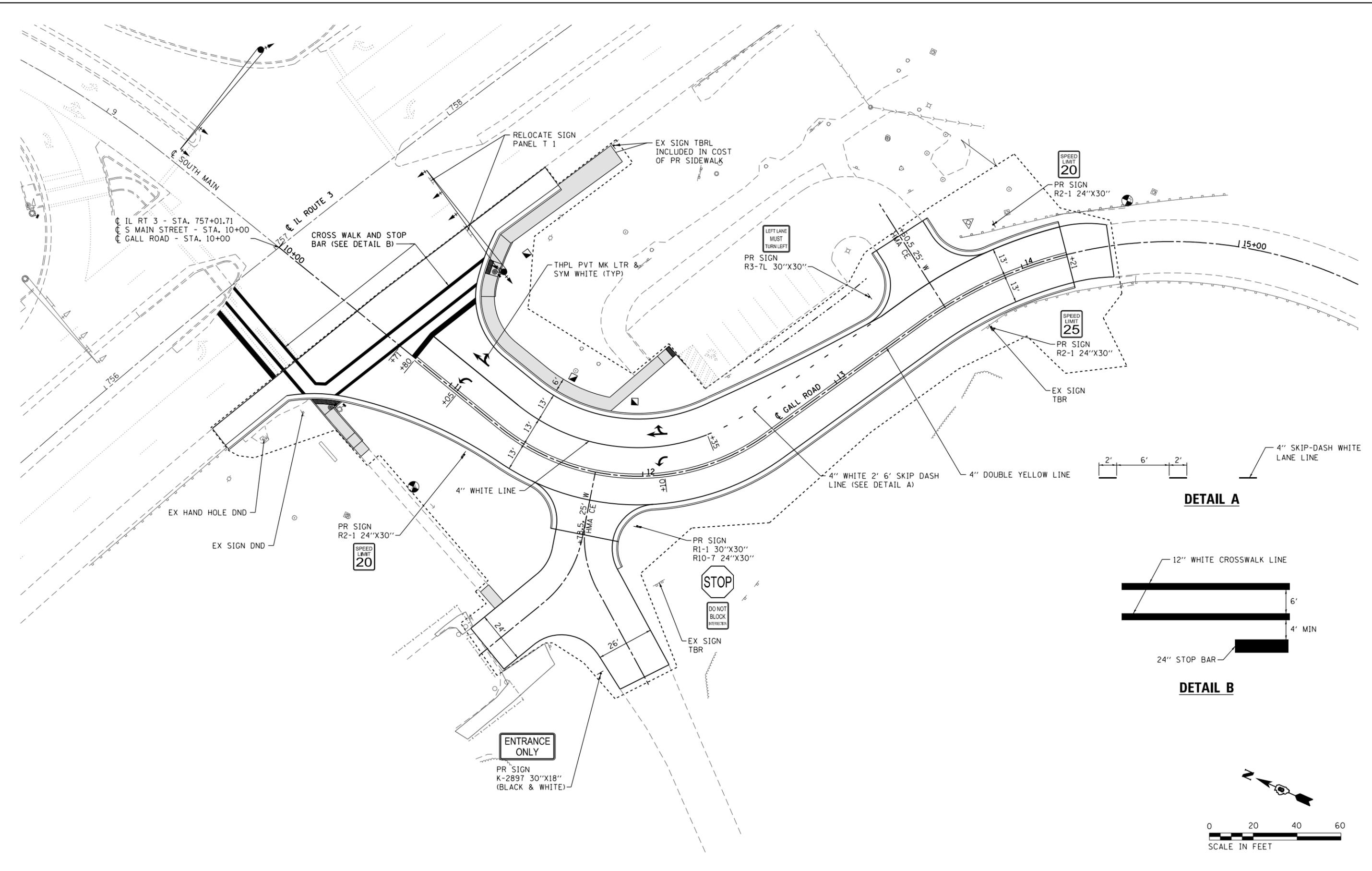
**STATE OF ILLINOIS
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INTERSECTION DETAILS

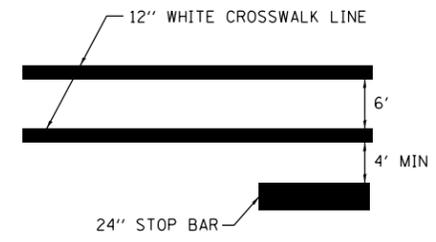
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F.A.U. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
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GALL ROAD INTERSECTION			CONTRACT NO. 97667	
ILLINOIS FED. AID PROJECT				

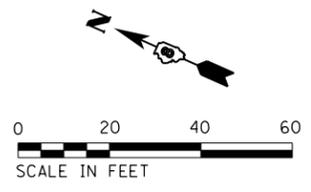
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DETAIL A



DETAIL B



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USER NAME = brandon.watermann	DESIGNED -	REVISED -
PLOT SCALE = 40.0000' / in.	DRAWN -	REVISED -
PLOT DATE = 1/27/2018	CHECKED -	REVISED -
	DATE -	REVISED -

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

PAVEMENT MARKING & SIGNING SHEET
 SCALE: SHEET 1 OF 1 SHEETS STA. TO STA.

F.A.U. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
9345	15-00052-00-PV	MONROE	23	17
GALL ROAD INTERSECTION			CONTRACT NO. 97667	
ILLINOIS FED. AID PROJECT				

ELECTRICAL GENERAL NOTES

- PRIOR TO COMMENCING CONSTRUCTION OF ANY COMPONENT OF THE PROPOSED TRAFFIC SIGNAL SYSTEM, ALL UNDERGROUND UTILITIES SHALL BE FIELD LOCATED ACCORDING TO ARTICLE 107.31 OF THE "STANDARD SPECIFICATIONS FOR ROAD AND BRIDGE CONSTRUCTION". AGENCIES KNOWN TO HAVE FACILITIES WITHIN THE PROJECT LIMITS ARE LISTED IN THE GENERAL NOTES OF THE PLANS. CALL J.U.L.I.E. (800) 892-0123 ONE WEEK BEFORE PLANNING TO DIG. IT MAY BE NECESSARY TO HAND DIG TEST HOLES TO EXPOSE EXISTING UTILITIES AT SOME LOCATIONS.
- THE EXISTING SIGNS ON THE EXISTING MAST ARM IN THE SOUTHEAST QUADRANT SHALL BE RELOCATED TO THE NEW MAST ARM AND ATTACHED WITH NEW HARDWARE PER SECTION 720 OF THE "STANDARD SPECIFICATIONS FOR ROAD AND BRIDGE CONSTRUCTION" AND HIGHWAY STANDARDS 720001 AND 720016.
- TRAFFIC SIGNAL CABLES SHALL BE #14 AWG STRANDED COPPER UNLESS OTHERWISE SPECIFIED. TERMINAL ENDS SHALL HAVE CRIMPED-ON RING TONGUE CONNECTORS.
- THE QUANTITIES SHOWN FOR TRAFFIC SIGNAL CABLE IN CONDUIT AND REMOVAL OF ELECTRIC CABLE FROM CONDUIT ASSUME THAT ALL CABLE IN EXISTING CONDUIT WILL NEED TO BE REPLACED. IF IT IS DETERMINED IN THE FIELD THAT THIS CABLE IS SUITABLE FOR USE AND IT WILL NOT BE DAMAGED WHILE PULLING ADDITIONAL CABLE THROUGH THE CONDUIT, WORK ON THESE ITEMS WILL BE UNNECESSARY.
- MOUNTING HARDWARE, SIGNAL POSTS AND BASES SHALL BE UNPAINTED ALUMINUM. BOLTS, SCREWS, NUTS AND WASHERS SHALL BE STAINLESS STEEL. ANTI-SEIZE PASTE COMPOUND SHALL BE USED ON ALL MOUNTING HARDWARE FIELD CONNECTIONS.
- THE LOCATION OF MAST ARM SUPPORTS SHALL BE APPROVED BY THE ENGINEER BEFORE FOUNDATIONS ARE CONSTRUCTED. MAST ARM POLES SHALL BE LOCATED A MINIMUM OF 10 FEET FROM THE EDGE OF PAVEMENT OR 2 FEET FROM THE EDGE OF SHOULDER, WHICHEVER DISTANCE IS GREATER. IN CURBED SECTIONS, THE MAST ARM POLES SHALL BE LOCATED A MINIMUM OF 5 FEET FROM THE FACE OF THE CURB. THESE DISTANCES ARE TO THE NEAR FACE OF THE MAST ARM POLE.
- THE FOLLOWING DEPTHS OF CONCRETE FOUNDATIONS FOR MAST ARM POLES HAVE BEEN DETERMINED FROM SOIL BORING DATA:
NE CORNER: 21' 0"
SE CORNER: 21' 0"
- THE LOCATION OF SIGNAL HEADS ON MAST ARMS SHALL BE APPROVED BY THE ENGINEER BEFORE MAST ARMS ARE INSTALLED.
- BACKPLATES SHALL BE ABS PLASTIC
- INDUCTIVE LOOP DETECTORS SUPPLIED FOR THIS PROJECT SHALL BE RACK MOUNTED AND SHALL HAVE THE CAPACITY OF OPERATING WITH BOTH DELAY AND EXTENSION MODES ACTIVE, IF A TIME SETTING IS PROGRAMMED.
- CALL DELAY SHALL NOT FUNCTION WHEN THE RELATED PHASES ARE IN THE GREEN MODE. "CALL CARRY-OVER" SHALL FUNCTION ONLY WHEN THE RELATED PHASES ARE IN THE GREEN MODE.
- THE LOCATION OF ALL DETECTOR LOOPS SHALL BE APPROVED BY THE ENGINEER BEFORE ANY SLOTS ARE SAWED IN THE PAVEMENT.
- DURING SAWING OPERATIONS, THE CONTRACTOR SHALL CONTROL DUST SO THAT IT DOES NOT BECOME AIRBORNE AND DRIFT INTO TRAFFIC OR ONTO ADJACENT PROPERTIES.
- DETECTOR LOOPS LOCATED WITHIN HOT-MIX ASPHALT SURFACE LIMITS SHALL BE INSTALLED IN THE PAVEMENT PRIOR TO HMA SURFACE PLACEMENT. DETECTOR LOOPS SHALL BE A MAXIMUM OF 4 INCHES DEEP, MEASURED FROM THE FINAL PAVEMENT SURFACE ELEVATION.
- DETECTOR LOOP LEAD-IN SPLICES SHALL BE MADE IN A HANDHOLE PER SECTION 873 OF THE "STANDARD SPECIFICATIONS FOR ROAD AND BRIDGE CONSTRUCTION". CONDUCTORS SHALL BE SPLICED IN A RIGID MOLD WITH NON-HARDENING EPOXY FILLER. RESIN CORE SOLDER SHALL BE USED.
- PROPOSED CONDUIT SHALL BE PVC UNLESS NOTED OTHERWISE. ALL CONDUIT SHALL BE PLACED AND BACKFILLED PRIOR TO CONSTRUCTION OF NEW PAVEMENT, SHOULDER AND CURB. NO ADDITIONAL COMPENSATION WILL BE ALLOWED FOR PUSHING OR PULLING CONDUIT AFTER SUCH WORK HAS BEEN COMPLETED.
- CONDUIT SPLICES WILL NOT BE PAID FOR SEPARATELY, BUT SHALL BE CONSIDERED PART OF THE NEW CONDUIT INSTALLATION.
- A 1/4" DIAMETER NYLON PULL ROPE SHALL BE INSTALLED IN ALL CONDUITS.
- HANDHOLES SHALL BE CAST-IN-PLACE PORTLAND CEMENT CONCRETE ACCORDING TO ARTICLE 814.03(g) OF THE "STANDARD SPECIFICATIONS FOR ROAD AND BRIDGE CONSTRUCTION". HANDHOLE COVERS SHALL BE SLOPED TO MATCH PROPOSED CONTOURS.

- THE TEMPORARY TRAFFIC SIGNAL INSTALLATION SHALL ONLY BE INSTALLED TO REPLACE THE MAST ARM IN THE SOUTHEAST QUADRANT OF THE INTERSECTION. SEE SPECIAL PROVISIONS FOR INFORMATION REGARDING THE TRAFFIC SIGNAL CONSTRUCTION REQUIREMENTS. THIS PAY ITEM SHALL BE USED TO PROVIDE TRAFFIC SIGNAL CONTROL WHILE WAITING ON DELIVERY OF THE NEW MAST ARMS. THE MAST ARM IN THE NORTHEAST QUADRANT MAY BE USED TEMPORARILY AS IS ONCE RECONSTRUCTED GALL ROAD IS OPENED TO TRAFFIC.
- THE FOLLOWING ABBREVIATIONS SUPPLEMENT OR SUPERCEDE HIGHWAY STANDARD 000001:

ABND	ABANDON
ALUM	ALUMINUM
BM	BRACKET MOUNTED
EQUIP	EQUIPMENT
GSC	GALVANIZED STEEL CONDUIT
MA	MAST ARM
MAM	MAST ARM MOUNTED
PED	PEDESTRIAN
PVC	POLYVINYL CHLORIDE CONDUIT
PB	PUSH-BUTTON
RELOC	RELOCATE
REC	REMOVE ELECTRICAL CABLE FROM CONDUIT
SH	SIGNAL HEAD
UC	UNDERGROUND CONDUIT

STANDARDS FOR TRAFFIC SIGNAL SHEETS

720001	SIGN PANEL MOUNTING DETAILS
720016	MAST ARM MOUNTED STREET NAME SIGNS
814001	HANDHOLES
857001	STANDARD PHASE DESIGNATION DIAGRAMS AND PHASE SEQUENCES
873001	TRAFFIC SIGNAL GROUNDING & BONDING
876001	PEDESTRIAN PUSH BUTTON POST
877002	STEEL MAST ARM ASSEMBLY AND POLE 56' THROUGH 75'
878001	CONCRETE FOUNDATION DETAILS
880006	TRAFFIC SIGNAL MOUNTING DETAILS
886001	DETECTOR LOOP INSTALLATIONS
886006	TYPICAL LAYOUTS FOR DETECTION LOOPS

TRAFFIC SIGNAL LEGEND

	PROPOSED SIGNAL HEAD WITH BACKPLATE (SEE HIGHWAY STANDARD 880006)
	EXISTING SIGNAL HEAD WITH BACKPLATE
	PROPOSED HANDHOLE
	EXISTING HANDHOLE
	EXISTING DOUBLE HANDHOLE
	PROPOSED DETECTOR LOOP (SEE HIGHWAY STANDARDS 886001 & 886006)
	EXISTING DETECTOR LOOP (SEE HIGHWAY STANDARDS 886001 & 886006)
	PROPOSED CONDUIT: "T" TRENCH, "P" PUSHED, SIZE SPECIFIED
	EXISTING CONDUIT: SIZE SPECIFIED
	PVCC POLYVINYL CHLORIDE CONDUIT
	GSC GALVANIZED STEEL CONDUIT
	REC REMOVE ELECTRIC CABLE FROM CONDUIT
	PROPOSED SIGN
	EXISTING MAST ARM
	PROPOSED MAST ARM
	EXISTING SIGNAL HEAD, PEDESTRIAN
	EXISTING PEDESTRIAN PUSHBUTTON DETECTOR
	EXISTING CONTROLLER
	EXISTING SIGNAL POST
	PROPOSED SIGNAL POST
	PROPOSED STREET NAME SIGN/TRAFFIC SIGN MOUNTED ON MAST ARM

TRAFFIC SIGNAL SCHEDULE

CODE NO.	ITEM	UNIT	TOTAL QUANTITIES
81028220	UNDERGROUND CONDUIT, GALVANIZED STEEL, 3" DIA.	FOOT	25
81028320	UNDERGROUND CONDUIT, PVC, 1" DIA.	FOOT	36
81028340	UNDERGROUND CONDUIT, PVC, 1 1/2" DIA.	FOOT	100
81028370	UNDERGROUND CONDUIT, PVC, 3" DIA.	FOOT	24
81400700	HANDHOLE, PORTLAND CEMENT CONCRETE	EACH	3
87301215	ELECTRIC CABLE IN CONDUIT, SIGNAL NO. 14 2C	FOOT	1,205
87301225	ELECTRIC CABLE IN CONDUIT, SIGNAL NO. 14 3C	FOOT	1,233
87301245	ELECTRIC CABLE IN CONDUIT, SIGNAL NO. 14 5C	FOOT	2,518
87301255	ELECTRIC CABLE IN CONDUIT, SIGNAL NO. 14 7C	FOOT	1,613
87301305	ELECTRIC CABLE IN CONDUIT, LEAD-IN, NO. 14 1 PAIR	FOOT	4,334
87700340	STEEL MAST ARM ASSEMBLY AND POLE, 58 FT.	EACH	2
87800420	CONCRETE FOUNDATION, TYPE E 42-INCH DIAMETER	FOOT	42
88040090	SIGNAL HEAD, POLYCARBONATE, LED, 1-FACE, 3-SECTION, MAST ARM MOUNTED	EACH	2
88040160	SIGNAL HEAD, POLYCARBONATE, LED, 1-FACE, 5-SECTION, MAST ARM MOUNTED	EACH	1
88102825	PEDESTRIAN SIGNAL HEAD, POLYCARBONATE, LED, 1-FACE, BRACKET MOUNTED WITH COUNT DOWN TIMER	EACH	4
88200100	TRAFFIC SIGNAL BACKPLATE	EACH	3
88600200	DETECTOR LOOP, TYPE II	FOOT	442
88800100	PEDESTRIAN PUSH-BUTTON	EACH	2
89000200	TEMPORARY TRAFFIC SIGNAL INSTALLATION	L SUM	1
89500100	RELOCATE EXISTING SIGNAL HEAD	EACH	5
89502200	MODIFY EXISTING CONTROLLER	EACH	1
89502300	REMOVE ELECTRIC CABLE FROM CONDUIT	FOOT	8,001
89502375	REMOVE EXISTING TRAFFIC SIGNAL EQUIPMENT	EACH	1
89502380	REMOVE EXISTING HANDHOLE	EACH	2
89502385	REMOVE EXISTING CONCRETE FOUNDATION	EACH	2
X8030110	LOCATING UNDERGROUND CABLE, SPECIAL	EACH	1
X8950450	REMOVE EXISTING UNDERGROUND CONDUIT	FOOT	131

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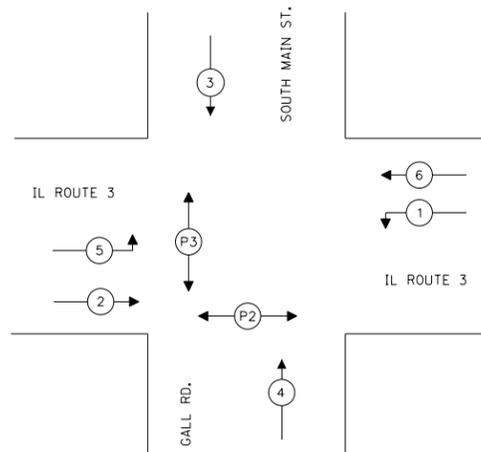
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	DATE -	REVISED -

**STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION**

TRAFFIC SIGNAL SHEETS

SCALE: 1" = 20' SHEET 1 OF 3 SHEETS STA. TO STA.

F.A.U. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
9345	15-00052-00-PV	MADISON	23	18
GALL ROAD INTERSECTION			CONTRACT NO. 97667	
ILLINOIS FED. AID PROJECT				



PHASE DESIGNATION DIAGRAM

- LEGEND
- (X) VEHICULAR PHASE NUMBER, X
 - (PX) PEDESTRIAN PHASE NUMBER, X

EXISTING SEQUENCE OF OPERATIONS

EXISTING FULL-ACTUATED CONTROLLER AND TYPE IV CABINET								
PHASE Ø	1	2	3	4	5	6	7	8
MOVEMENT	←	→	↓	↑	↗	←	NOT USED	NOT USED
CONCURRENT MOVEMENT PERMITTED	5 OR 6	5 OR 6	NONE	NONE	1 OR 2	1 OR 2		

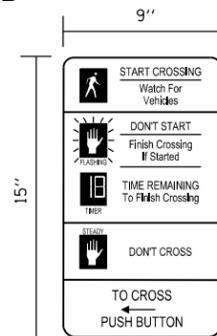
PEDESTRIAN SIGNALS BY PUSH BUTTON OPERATION ONLY

PROPOSED SEQUENCE OF OPERATIONS

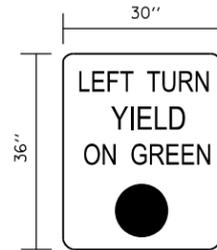
EXISTING FULL-ACTUATED CONTROLLER AND TYPE IV CABINET								
PHASE Ø	1	2	3	4	5	6	7	8
MOVEMENT	←	→	↓	↑	↗	←	NOT USED	NOT USED
CONCURRENT MOVEMENT PERMITTED	5 OR 6	5 OR 6	NONE	NONE	1 OR 2	1 OR 2		

PEDESTRIAN SIGNALS BY PUSH BUTTON OPERATION ONLY

- 1 SIGN TYPE
- 1 EA PED SH
- 1 EA REM TS EQUIP (PED SH)

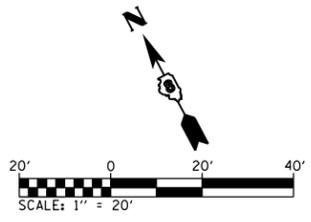
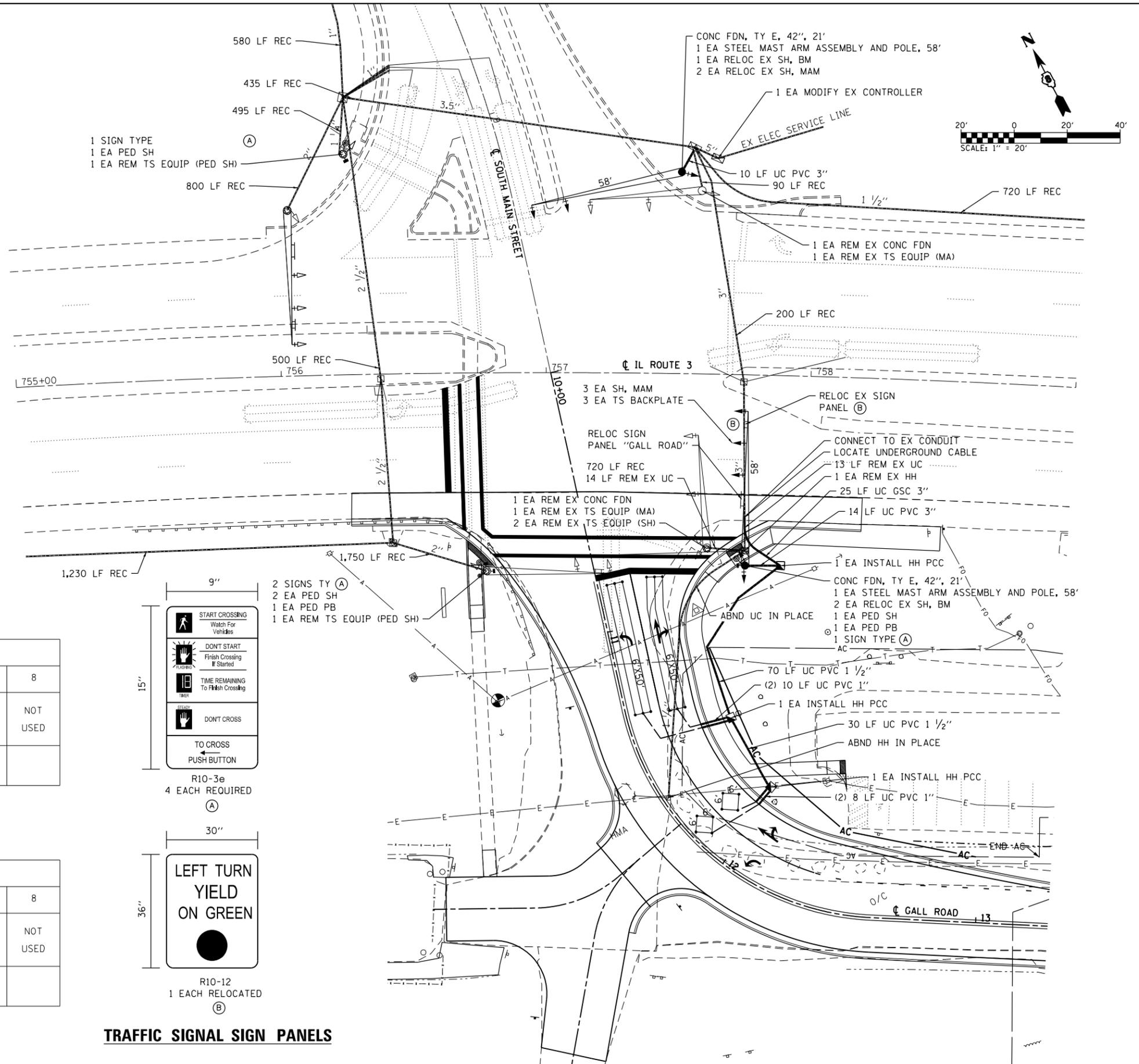


R10-3e
4 EACH REQUIRED
(A)



R10-12
1 EACH RELOCATED
(B)

TRAFFIC SIGNAL SIGN PANELS



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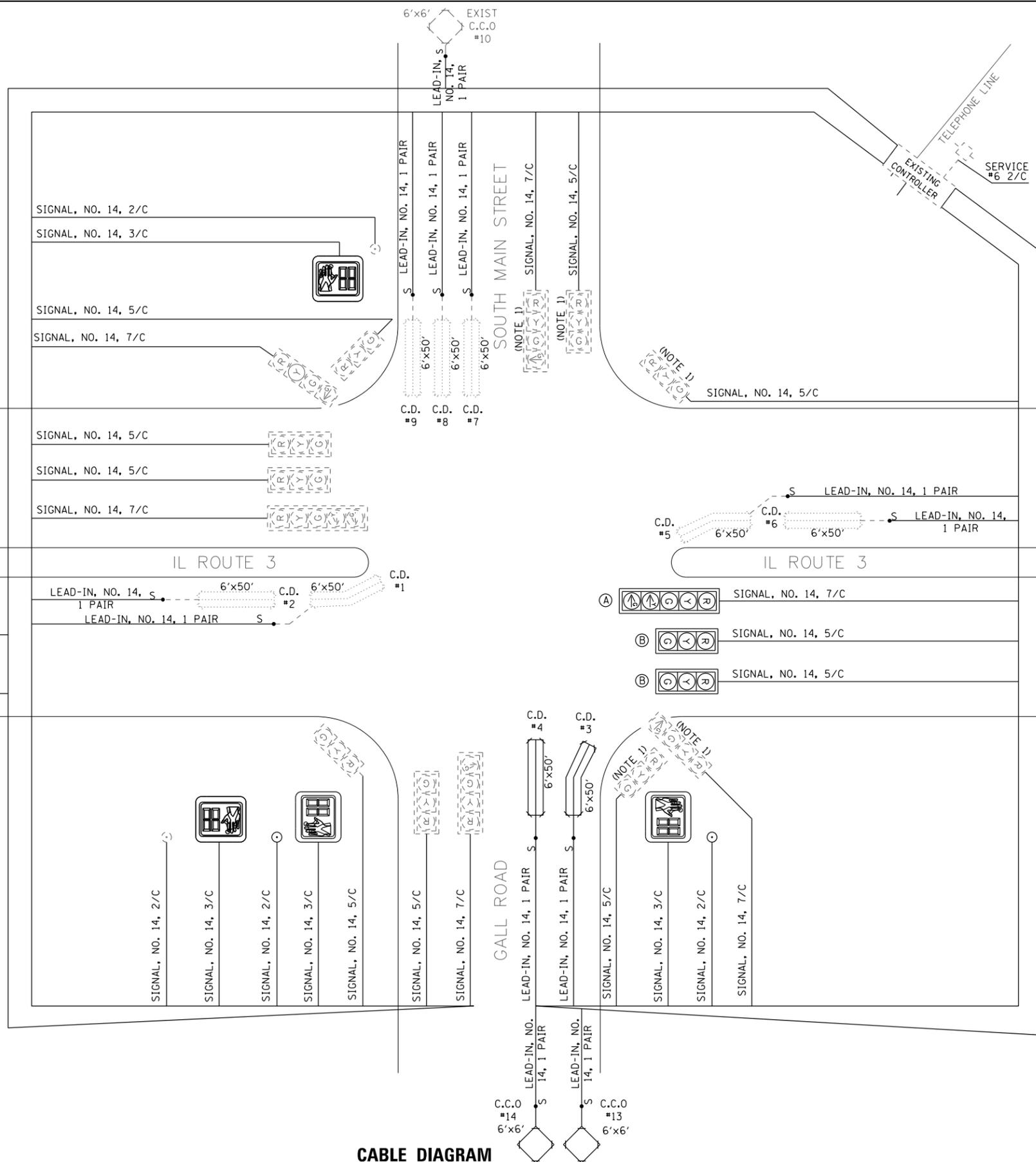
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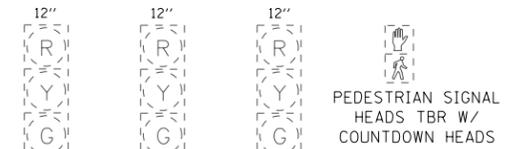
TRAFFIC SIGNAL SHEETS

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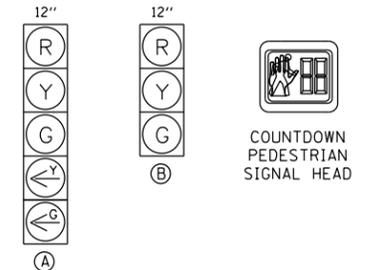
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9345	15-00052-00-PV	MADISON	23	19
GALL ROAD INTERSECTION			CONTRACT NO. 97667	
ILLINOIS FED. AID PROJECT				



CABLE DIAGRAM



EXISTING TRAFFIC SIGNAL FACES



PROPOSED TRAFFIC SIGNAL FACES

NOTE: 1. EXISTING SIGNAL HEADS AND BACKPLATES TO BE RE-USED.

CABLE DIAGRAM LEGEND

- PROPOSED ELECTRIC CABLE IN CONDUIT
- S — PROPOSED CABLE SPLICE (SEE ELECTRICAL GENERAL NOTES)
- 2/C INDICATES NUMBER OF CONDUCTORS IN CABLE
- C.D. CALL DELAY (SEE ELECTRICAL GENERAL NOTES)
- C.C.O. CALL CARRY OVER (SEE ELECTRICAL GENERAL NOTES)
- NO. 6 INDICATES AMERICAN WIRE (AWG) SIZE 6
- *6 LOOP DETECTOR NUMBER
- ⊕ PROPOSED PEDESTRIAN PUSH BUTTON
- - - - - EXISTING ELECTRIC CABLE IN CONDUIT
- - - - - S - - - - - EXISTING CABLE SPLICE (SEE ELECTRICAL GENERAL NOTES)
- ⊖ EXISTING PEDESTRIAN PUSH BUTTON
- - - - - EXISTING SERVICE INSTALLATION

DETECTOR LOOP REQUIREMENTS & CALCULATIONS

LOOP NO.	LOCATION	PHASE	LOOP SIZE (FOOT)	REQUIRED NO. OF TURNS	LEAD-IN LENGTH (FOOT)	CALCULATED INDUCTANCE (NOTE 1) (MICROHENRIES)	CALCULATED RESISTANCE (NOTE 1) (OHMS)
1	EB LT	5	6' X 50'				
2	EB LT	5	6' X 50'				
3	NB LT	4	6' X 50'	3 - 6 - 3	201	830	2.6
4	NB THRU	4	6' X 50'	3 - 6 - 3	136	816	2.3
5	WB LT	1	6' X 50'				
6	WB LT	1	6' X 50'				
7	SB LT	3	6' X 50'				
8	SB LT/THRU	3	6' X 50'				
9	SB RT	3	6' X 50'				
10	SB C.C.O.	3	6' X 6'				
11	EB C.C.O.	2	6' X 6'				
12	EB C.C.O.	2	6' X 6'				
13	NB C.C.O.	4	6' X 6'	5	59	70	0.5
14	NB C.C.O.	4	6' X 6'	5	46	67	0.4
15	WB C.C.O.	6	6' X 6'				
16	WB C.C.O.	6	6' X 6'				

DETECTOR LOOP NOTES:

1. THE CALCULATED VALUES SHOWN ABOVE ARE FOR COMBINED LOOP + LEAD-IN INDUCTANCE AND RESISTANCE. ACTUAL VALUES SHOULD BE WITHIN +/- 20% OF THESE VALUES.

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 PLOT DATE = 1/27/2018

DESIGNED -
 DRAWN -
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 DATE -

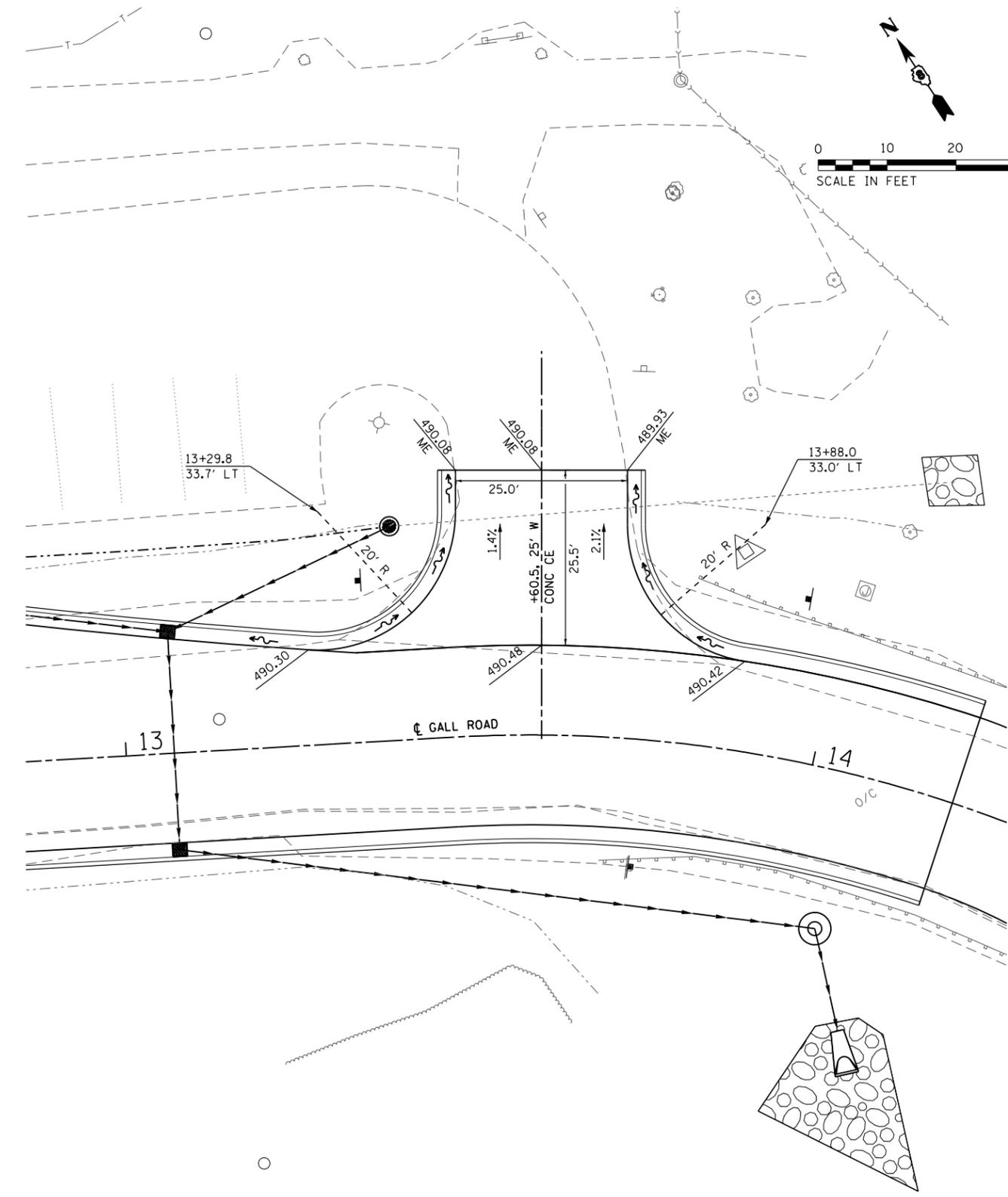
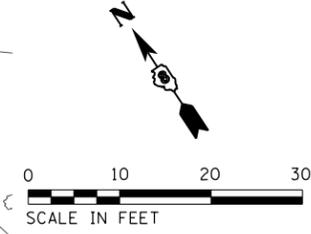
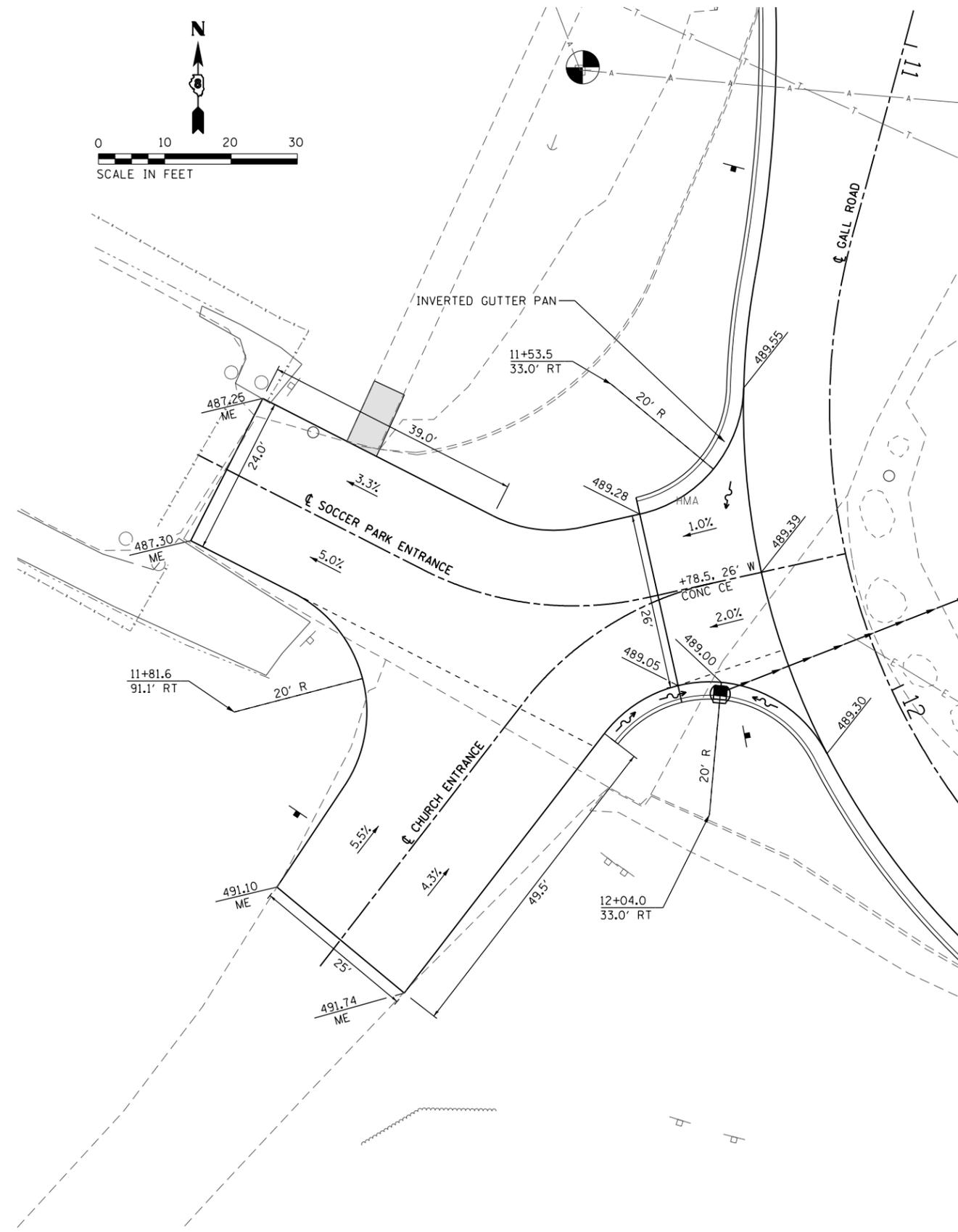
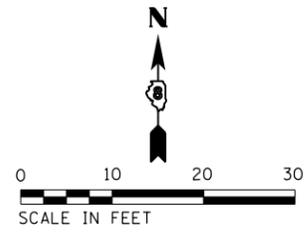
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**STATE OF ILLINOIS
 DEPARTMENT OF TRANSPORTATION**

TRAFFIC SIGNAL SHEETS

SCALE: 1" = 20' SHEET 3 OF 3 SHEETS STA. TO STA.

F.A.U. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
9345	15-00052-00-PV	MADISON	23	20
GALL ROAD INTERSECTION			CONTRACT NO. 97667	
ILLINOIS FED. AID PROJECT				



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PLOT DATE = 1/27/2018	CHECKED -	REVISED -
	DATE -	REVISED -

**STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION**

ENTRANCE DETAILS

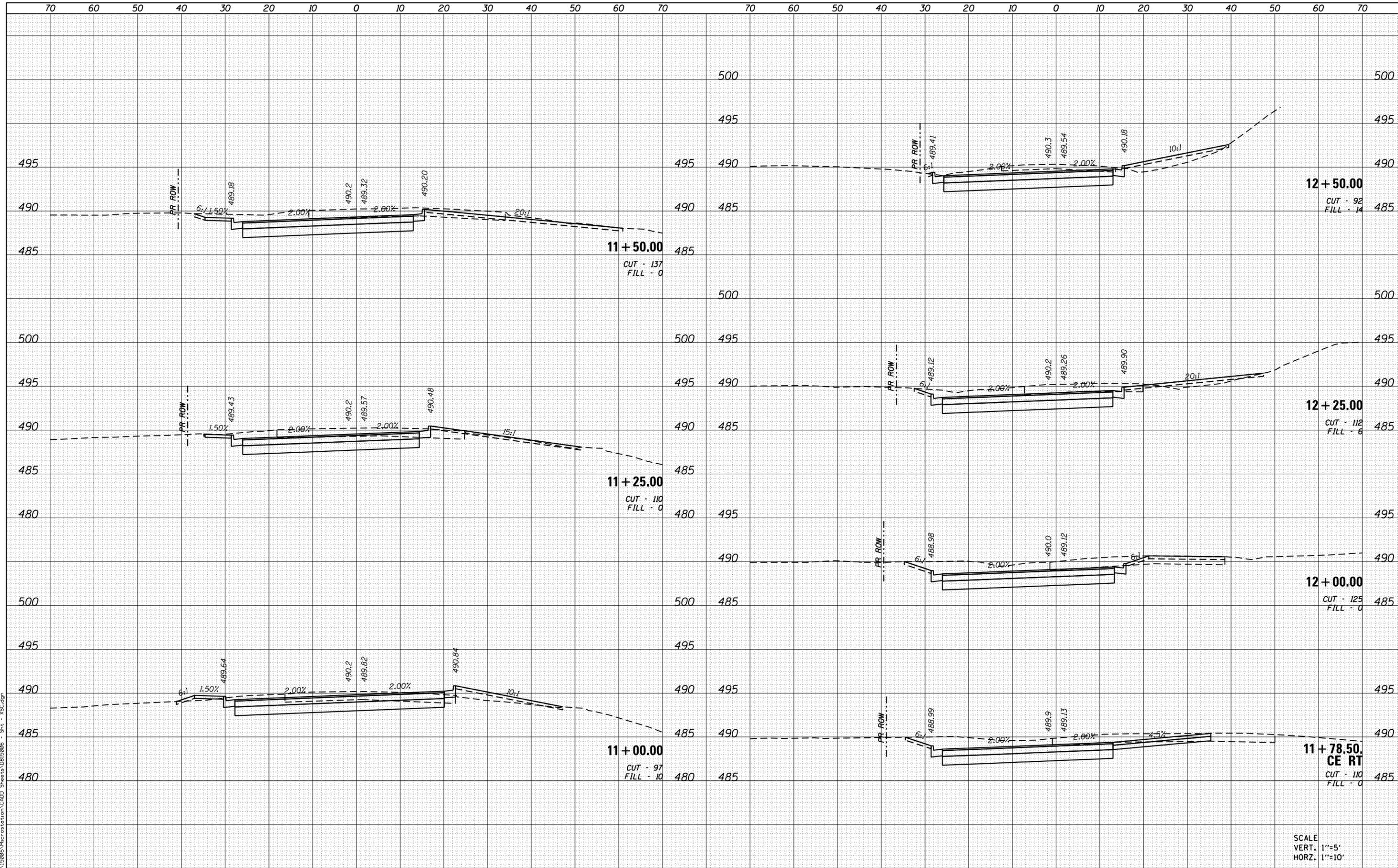
SCALE: 1" = 10' SHEET 1 OF 1 SHEETS STA. TO STA.

F.A.U. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
9345	15-00052-00-PV	MONROE	23	21
GALL ROAD INTERSECTION			CONTRACT NO. 97667	
ILLINOIS FED. AID PROJECT				

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

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

MODEL NAME = D:\En11
 FILE NAME = H:\P152005\Microstation\CADD Sheets\DB152005_Sht_15.Cad



SCALE
 VERT. 1"=5'
 HORZ. 1"=10'



USER NAME = brandon.rotermann	DESIGNED -	REVISED -
PLOT SCALE = 20.0000' / in.	DRAWN -	REVISED -
PLOT DATE = 1/25/2018	CHECKED -	REVISED -
	DATE -	REVISED -

**STATE OF ILLINOIS
 DEPARTMENT OF TRANSPORTATION**

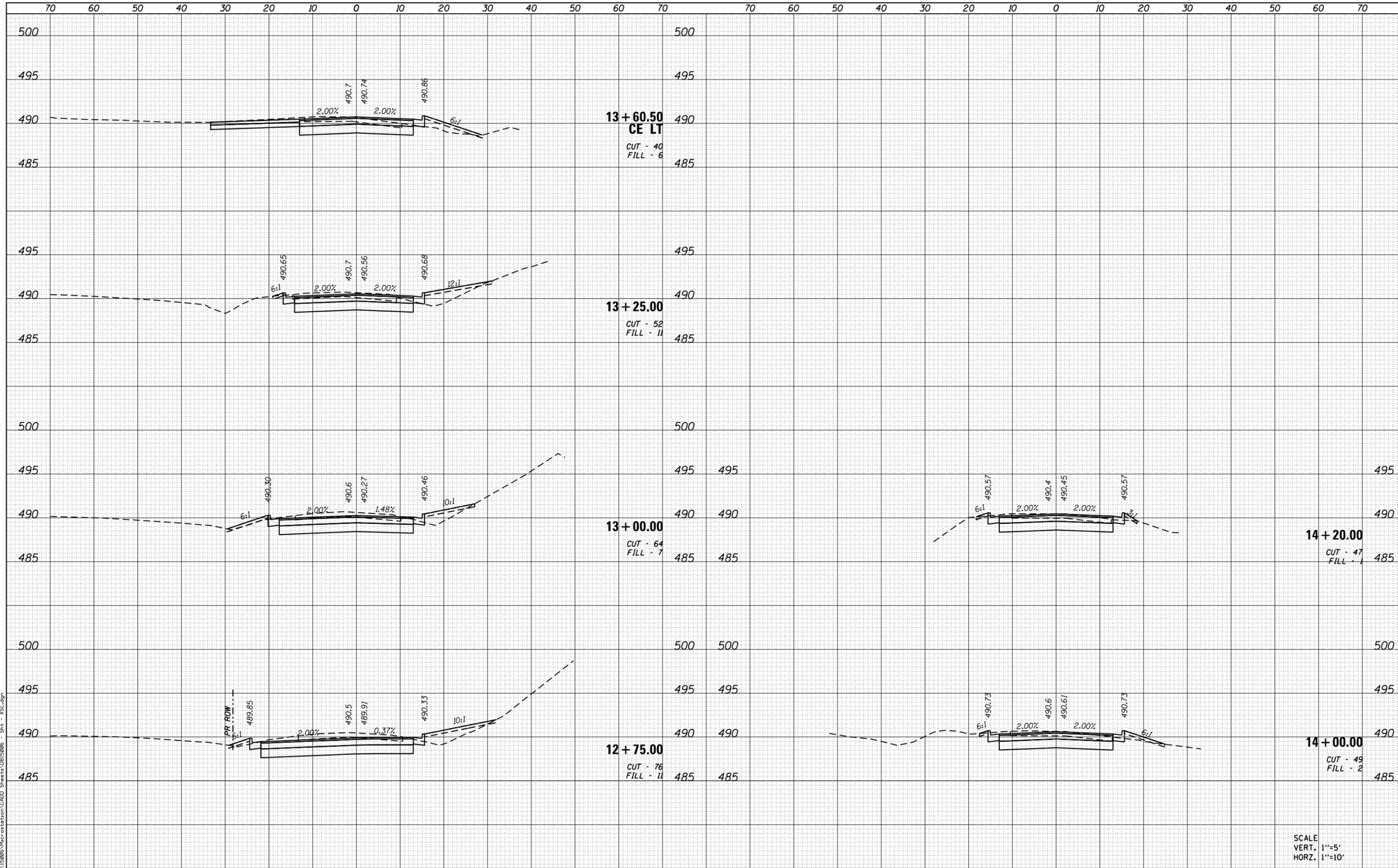
SCALE:	SHEET 1 OF 2 SHEETS	STA. 11+00.00 TO STA. 12+50.00
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F.A.U. RTE. 9345	SECTION 15-00052-00-PV	COUNTY MONROE	TOTAL SHEETS 23	SHEET NO. 22
CALL ROAD INTERSECTION			CONTRACT NO. 97667	
ILLINOIS FED. AID PROJECT				

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

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

MODEL NAME = D:\Final\15-00052-00-PV\15-00052-00-PV.dwg
 FILE NAME = H:\P\15005\Microstation\CADD Sheets\01B12005_Sht_1.dwg



USER NAME = brandon.rotermann	DESIGNED -	REVISED -
PLOT SCALE = 20.0000' / in.	DRAWN -	REVISED -
PLOT DATE = 1/25/2018	CHECKED -	REVISED -
	DATE -	REVISED -

**STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION**

SCALE:	SHEET 2 OF 2 SHEETS	STA. 12+75.00 TO STA. 14+20.00
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F.A.U. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
9345	15-00052-00-PV	MONROE	23	23
CALL ROAD INTERSECTION			CONTRACT NO. 97667	
ILLINOIS FED. AID PROJECT				

SCALE
VERT. 1"=5'
HORZ. 1"=10'