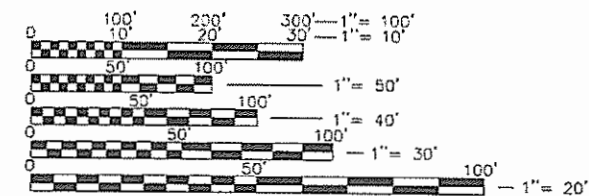


1	COVER SHEET
2	GENERAL NOTES
3-5	SUMMARY OF QUANTITIES
6	SCHEDULE OF QUANTITIES
7-8	TYPICAL SECTIONS
9	EXISTING CONDITIONS
10	HORIZONTAL ALIGNMENT PLAN
11	REMOVAL PLAN
12	PLAN SHEET
13	GRADING PLAN
14	GRADING PLAN (ISLAND ENLARGEMENT)
15	STRIPING PLAN
16	TRAFFIC CONTROL PLAN
17-19	TRAFFIC SIGNAL PLANS
20-21	CROSS-SECTIONS

LIST OF STANDARDS

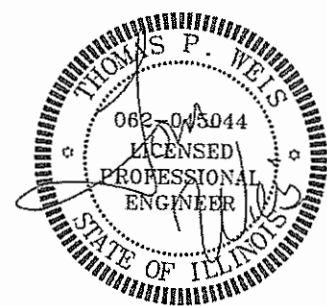
000001-08	STANDARD SYMBOLS, ABBREVIATIONS, & PATTERNS
001001-02	AREAS OF REINFORCEMENT BARS
001006	DECIMAL OF AN INCH AND OF A FOOT
280001-07	TEMPORARY EROSION CONTROL SYSTEMS
606001-08	CONCRETE CURB TYPE B AND COMBINATION CONCRETE CURB AND GUTTER
606301-04	PC CONCRETE ISLAND AND MEDIANS
701101-05	OFF-ROAD OPERATIONS, MULTILANE, 15' (4.5 M) TO 24" (600 MM) FROM PAVEMENT EDGE
701106-02	OFF-ROAD OPERATIONS, MULTILANE, MORE THAN 15' (4.5 M) AWAY
701501-06	URBAN LANE CLOSURE, 2L, 2W, UNDIVIDED
701602-10	URBAN LANE CLOSURE, MULTILANE, 2W WITH BIDIRECTIONAL LEFT TURN LANE
701701-10	URBAN LANE, CLOSURE, MULTILANE INTERSECTION
701901-10	TRAFFIC CONTROL DEVICES
720001-01	SIGN PANEL MOUNTING DETAILS
780001-05	TYPICAL, PAVMENT MARKINGS
805001-01	ELECTRIC SERVICE INSTALLATION DETAILS
814001-03	HANDHOLES
814006-03	DOUBLE HANDHOLES
857001-01	STANDARD PHASE DESIGNATION DIAGRAMS & PHASE SEQUENCES
873001-02	TRAFFIC SIGNAL GROUNDING AND BONDING
878001-11	CONCRETE FOUNDATION DETAILS
880006-01	TRAFFIC SIGNAL MOUNTING DETAILS
886001-01	DETECTOR LOOP INSTALLATIONS
886006-01	TYPICAL LAYOUT FOR DETECTION LOOPS



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.

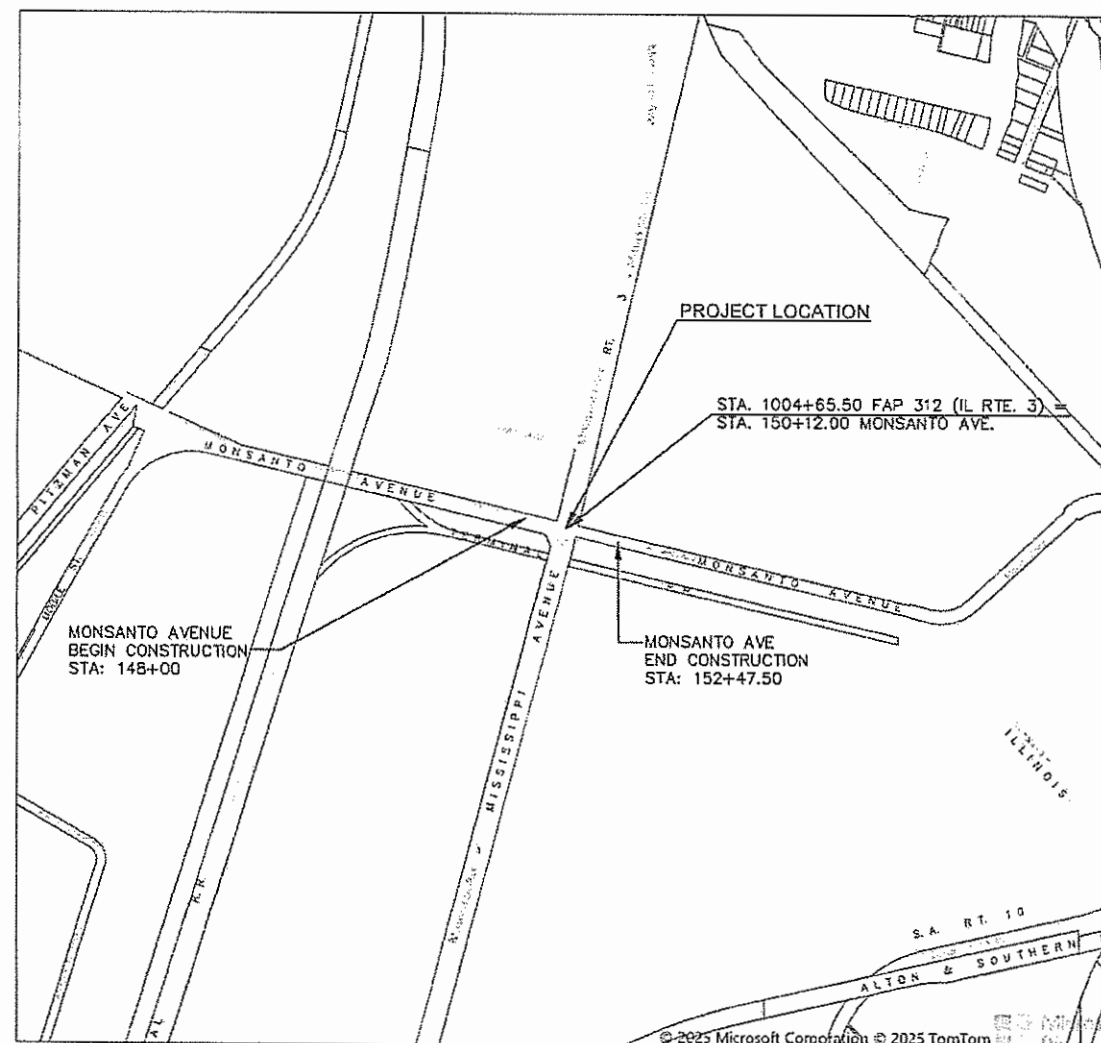
J.U.L.I.E.
JOINT UTILITY LOCATION INFORMATION FOR EXCAVATION
1-800-892-0123
OR 811

THOMAS P. WEIS
Name
3/27/2025
Date
11/30/2025
License Expiration



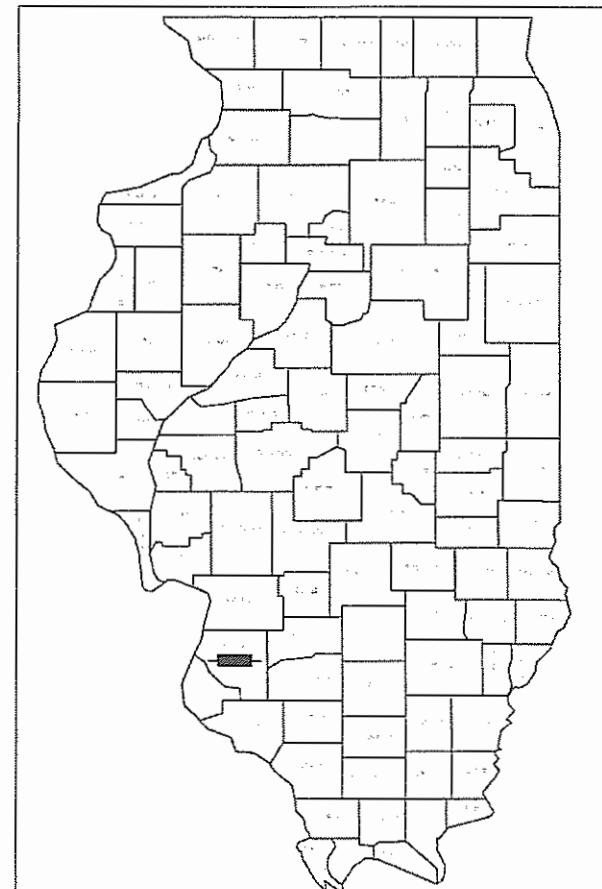
Contract No. 97860

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION
PROPOSED FEDERAL AID PROJECT
CMAQ PROGRAM
FAU ROUTE 9225 (IL. ROUTE 3)
MONSANTO AVENUE
IDOT SECTION 16-00015-01-PV
PROJECT NO. YHU4(842)
TRAFFIC SIGNAL & INTERSECTION IMPROVEMENTS
VILLAGE OF SAUGET
ST. CLAIR COUNTY, ILLINOIS



FUNCTIONAL CLASSIFICATION	
MONSANTO AVENUE	COLLECTOR
	25 MPH DESIGN SPEED
	3,945 ADT CURRENT
	210 L.F. PROJECT LENGTH
IL RTE. 3	PRINCIPAL ARTERIAL
	45 MPH DESIGN SPEED
	26,790 L.F. ADT CURRENT
	- L.F. LENGTH

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
312	16-00015-01-PV	ST. CLAIR	21	1
FEDERAL AID PROJECT		ILLINOIS	CONTRACT NO. 97860	



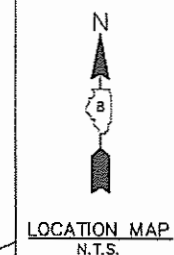
LOCATION OF SECTION INDICATED THIS: -

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

Village of Sauget
APPROVED 03/23 2025
Richard Sauget Jr. - Village Mayor

PASSED 4/7 2025
District 8 Engineer of Local Roads & Streets
Lera Remy
REGION 5 ENGINEER
RELEASING FOR BID BASED UPON LIMITED REVIEW

WDG PN: 7313-16-1



Weis Design Group
1403 Nickell Dr. 16296 Westwoods
Sauget, IL 62206 Business Park Dr.
(618) 874-0320 Ellisville, Mo. 63021
weisdesigngroup.com (636) 207-0832
f. (636) 207-0328

GENERAL NOTES:

1. THE CONTRACTOR SHALL PROVIDE TRAFFIC CONTROL IN THE FORM OF FLAGMEN, BARRICADES, ETC. AS REQUIRED BY IDOT STANDARD HIGHWAY SPECIFICATIONS.
2. CONTRACTOR TO SEED ALL GRASS AREAS DISTURBED BY THIS CONSTRUCTION UNLESS OTHERWISE NOTED. CONTRACTOR TO MAINTAIN SEED FOR A 30 DAY PERIOD FROM SEEDING. BACKFILL, FINISH GRADE AND SEED BEHIND NEW ROADS AND SIDEWALK WITH CLEAN MATERIAL. PROVIDE SMOOTH TRANSITION WITH EXISTING GRADES.
3. GAS, ELECTRIC, TELECOMMUNICATION, AND WATER LINES TO BE RELOCATED BY OTHERS. CONTRACTOR SHALL COORDINATE HIS EFFORTS WITH THE UTILITY COMPANIES. EXACT DISTANCES AND LOCATIONS OF UTILITIES TO BE RELOCATED HAVE NOT YET BEEN DETERMINED.
4. THE EXISTING UTILITY LOCATIONS SHOWN ON THESE PLANS WERE COMPILED FROM THE BEST AVAILABLE RECORDS. CONTRACTORS SHALL COORDINATE WITH THE VARIOUS UTILITY COMPANIES TO ESTABLISH EXACT LOCATIONS AND DEPTHS PRIOR TO EXCAVATING. CONTRACTOR SHALL BE RESPONSIBLE FOR PROTECTING AND SUPPORTING ALL UTILITIES DURING CONSTRUCTION OPERATIONS. CONTRACTOR SHALL CONTACT THE JOINT UTILITY LOCATING INFORMATION FOR EXCAVATORS (JULIE) AT 1-800-892-0123 FOR LOCATING THE VARIOUS UTILITIES DURING CONSTRUCTION.
5. ALL BUSINESSES SHALL HAVE ACCESS AT ALL TIMES.
6. THE ILLINOIS NGS DATA SHEET DESIGNATION #D-284 WAS USED FOR ELEVATIONAL BENCHMARK AND STATE PLANE COORDINATE LOCATION. ELEVATION = 430.35.
7. PROPOSED PAVEMENT MARKINGS SHOULD MATCH LOCATIONS OF EXISTING MARKINGS.
8. FOR NON-EMERGENCY CONTACT INFORMATION FOR THE VILLAGE OF SAUGET POLICE CALL 1-618-332-6500, AND FOR SAUGET FIRE DEPARTMENT CALL 1-618-332-6600 THAT MAY BE AFFECTED DURING LANE CLOSURES.

COMMITMENTS:

NONE

EMERGENCY CONTACTS:

MR. JOSH VANDEVER
PUBLIC WORKS DIRECTOR
618-337-4683 (WORK)
618-779-0449 (MOBILE)

CHIEF JAMES JONES
CHIEF OF POLICE
618-332-6500 (WORK)

CHIEF ROGER THORNTON
FIRE CHIEF
618-332-6700 (WORK)

UTILITY INFORMATION

ILLINOIS-AMERICAN WATER CO
100 N WATER WORKS DR
BELLEVILLE, IL 62223
(618) 236-1180

AMEREN ILLINOIS (GAS)
1050 WEST BOULEVARD
P.O. BOX 428
BELLEVILLE, IL 62222-0428
(618) 236-4301

AT&T (COMMUNICATIONS)
1420 FRONTAGE RD
O'FALLON, IL 63369
(618) 624-4004

EXPLORER PIPELINE
1355 ROBBINS RD
HARTFORD, IL 62048
(618) 251-0262
(918) 493-5100 (COMPANY)

AMEREN UE (ELECTRIC)
500 EAST BROADWAY
EAST ST. LOUIS, IL 62201
(618) 482-2213

VILLAGE OF CAHOKIA (SANITARY)
2525 MOUSETTE LN.
SAUGET, IL 62206
(618) 337-3302

CHARTER COMMUNICATIONS
SPECTRUM (BURIED FIBER)
13545 BARRETT PKWY.
BALLWIN, MO 63021
(314) 858-3536

AMERICAN BOTTOMS
KELLY SMITH
1 AMERICAN BOTTOMS RD
SAUGET, IL 62201
(618) 337-1710

CENTER ETHANOL CO, LLC
(NATURAL GAS PRIVATE)
DENNY CROWN
231 MONSANTO AVE.
SAUGET, IL 62201
(618) 274-0912



CALL BEFORE
YOU DIG!
1-800-892-0123

CALL "JULIE" TO HAVE LOCATIONS
MARKED IN THE FIELD AND "IDOT" FOR
UNDERGROUND LOCATES WITHIN THE RIGHT-OF-WAY.
SUBSCRIBING UTILITIES REQUIRE 48 HOURS NOTICE
PRIOR TO CONSTRUCTION.

BEFORE YOU DIG

MIXTURE REQUIREMENTS			
SURFACE	INCIDENTAL HMA SURFACING	SHOULDERS < 2.25"	SHOULDERS ≥ 2.25"
PG 64-22	PG 64-22	PG 64-22	PG 64-22
0	0	0	0
4.0% @ Ndes=90	4.0% @ Ndes=90	4.0% @ Ndes=30	4.0% @ Ndes=30
IL 9.5	IL 9.5	IL 9.5L	IL 19.0L
MIXTURE "D"	MIXTURE "D"		

[illegible]

PAVEMENT MARKINGS SCHEDULE											
		THERMOPLASTIC PAVEMENT MARKING LINE 6"	THERMOPLASTIC PAVEMENT MARKING LINE 6"	THERMOPLASTIC PAVEMENT MARKING LINE 6"	THERMOPLASTIC PAVEMENT MARKING LINE 6"	THERMOPLASTIC PAVEMENT MARKING LINE 8"	THERMOPLASTIC PAVEMENT MARKING LINE 8"	THERMOPLASTIC PAVEMENT MARKING LINE 12"	THERMOPLASTIC PAVEMENT MARKING LINE 24"	THERMOPLASTIC PAVEMENT MARKING- LETTERS AND SYMBOLS	PAVEMENT MARKING REMOVAL - WATER BLASTING
		WHITE (EDGE LINE)	WHITE (LANE LINE)	WHITE (SKIP-DASH LINE)	DOUBLE YELLOW (CENTERLINE)	WHITE	WHITE (CHEVRONS)	WHITE (CHEVRONS)	WHITE (STOP BARS)	WHITE (LEFT TURN ARROW SYMBOLS)	
STATION	STATION	FOOT	FOOT	FOOT	FOOT	FOOT	FOOT	FOOT	FOOT	SQ FT	SQ FT
MONSANTO AVE.											
148+00.00	149+77.49	464	128		257	219	66		64.5	60.2	1113
150+37.49	152+47.45	448	179		333	99	31	544	42	89.2	1541
SUB TOTAL		912	307	0	590	318	97	544	107	149	2654
IL ROUTE 3											
1003+68.14	1004+46.52		132		117				37	105	265
1004+83.48	1006+25.00		105	159	225				37	47	450
SUB TOTAL		0	237	159	342	0	0	0	74	152	715
TOTAL		912	544	159	932	318	97	544	180	301	3368
TOTAL 4"		2548					415				

SIGN SCHEDULE			
STATION	OFFSET (FT)	CASINO SIGN (D1-1) (REMOVE, STORE, AND REUSE)	DIRECTIONAL ARROW SIGN (M6-1) REMOVE, STORE, AND REUSE
	SQ FT	2.00	1.00
MONSANTO AVE.			
150+47	25.65' RT.	1	1
SUB-TOTAL		1	1
SUB-TOTAL SIGNS (NEW)		0	0
SUB-TOTAL SIGNS (REUSE)		1	1
SUB-TOTAL NEW (SQ FT)		0	0
SUB-TOTAL REUSE (SQ FT)		2	1
TOTAL SIGNS (NEW)		0	
TOTAL SIGNS (REUSE)		2	
	REMOVE AND RELOCATE SIGN PANEL ASSEMBLY - TYPE A	3	SQ FT

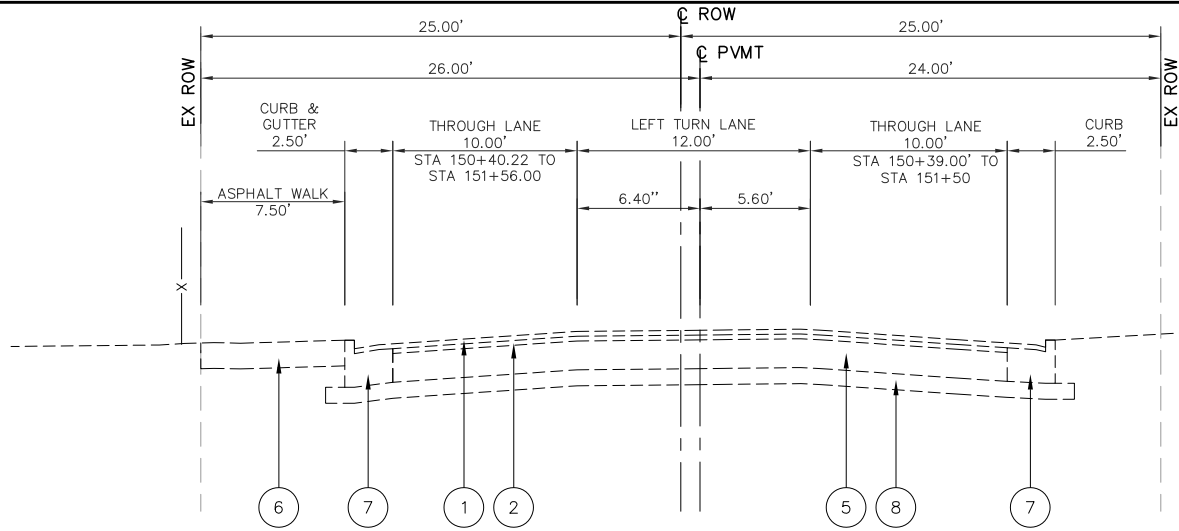
UTILITY ADJUSTMENT						
STATION	OFFSET	MANHOLES TO BE ADJUSTED	WATER VALVES TO BE ADJUSTED (SPECIAL)	INLET TO BE ADJUSTED WITH NEW LID - SPECIAL	GAS MARKER POST REMOVAL	BOLLARD REMOVAL
		EACH	EACH	EACH	EACH	EACH
MONSANTO AVE.						
150+44.27	9.39' RT.	1				
150+46.25	30.93' RT.		1			
150+48.38	24.25' LT.		1			
150+52.20	12.00' RT.		1			
150+54.89	22.84' RT.	1				
150+64.10	12.08' RT.		1			
150+75.15	7.07' RT	1				
151+34.84	23.22' LT.					1
151+52.99	21.15' LT.				1	
151+64.01	19.78' LT.			1		
152+13.33	1.07' LT.		1			
152+39.92	20.02' LT.			1		
TOTAL		3	5	2	1	1

EROSION SCHEDULE		
STATION	STATION	PERIMETER EROSION BARRIER
		FOOT
MONSANTO AVE.		
150+39.45	152+47.45	50
TOTAL		50

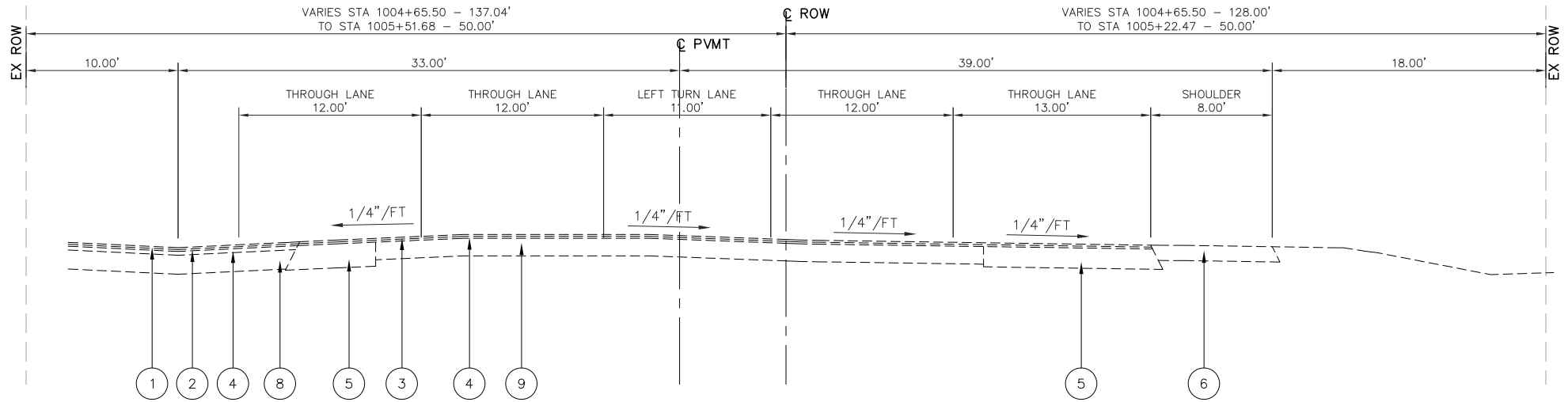
EXCAVATION AND GRADING SCHEDULE				
		CUT		FILL
STATION	TO	STATION	EARTH EXCAVATION	FURNISHED EXCAVATION (SPECIAL)
			CU YD	CU YD
MONSANTO AVE.				
150+39.45		152+47.45	58.0	10
		TOTAL	58	10

NOTE:
EX DEPTH BASED ONLY UPON
RECORDED DRAWINGS

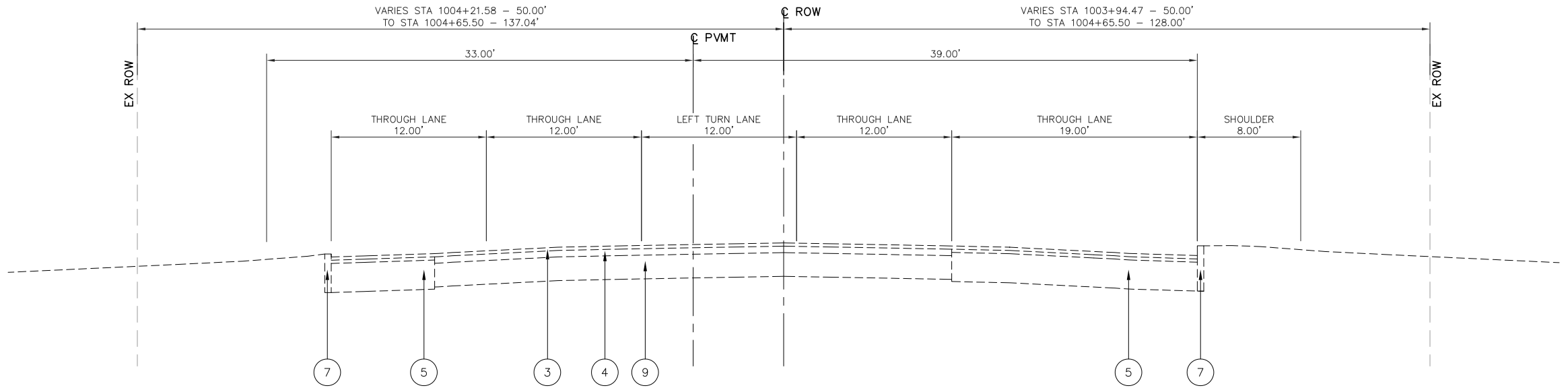
- ① EX BITUMIOUS CONCRETE SURFACE COURSE, MIX D, CLASS I, 1 1/2"
② EX BITUMINOUS CONCRETE BINDER COURSE 1 1/2"
③ EX HMA SURFACE COURSE, 1 1/2"
④ EX HMA BINDER COURSE, 2 1/4"
⑤ EX BITUMINOUS BASE COURSE, 13"
⑥ EX ASPHALT SHOULDERS, 8"
⑦ EX CONCRETE CURB & GUTTER
⑧ EX AGGRGATE BASE COURSE
⑨ EX JOINTED PCC PAVEMENT 10"
⑩ PR HOT-MIX ASPHALT SURFACE REMOVAL 1 1/2"
⑪ PR HOT-MIX ASPHALT SURFACE COURSE, IL-9.5 MIX "D", N90 1 1/2"
⑫ PR COMBINATION CONCRETE CURB & GUTTER TYPE B-6.24
⑬ PR TACK COAT
⑭ PR HOT MIX ASPHALT SHOULDERS, 8"
⑮ PR AGGREGATE BASE COURSE, 6"
⑯ PR AGGREGATE BASE COURSE, 10"
⑰ PR PORTLAND CEMENT CONCRETE BASE COURSE, 10"
⑱ PR DETECTOR LOOP INSTALLATION (SEE PLANS FOR LOCATIONS)



EX. TYPICAL SECTION - MONSANTO AVE.
STA 150+39.45 TO 152+47.50
NOT TO SCALE



EX. TYPICAL SECTION - IL 3 (MISSISSIPPI AVE.)
STA 1004+65.50 TO 1006+00
NOT TO SCALE

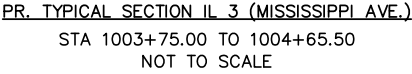
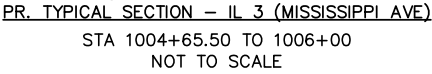
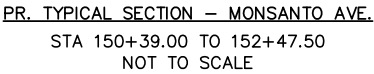


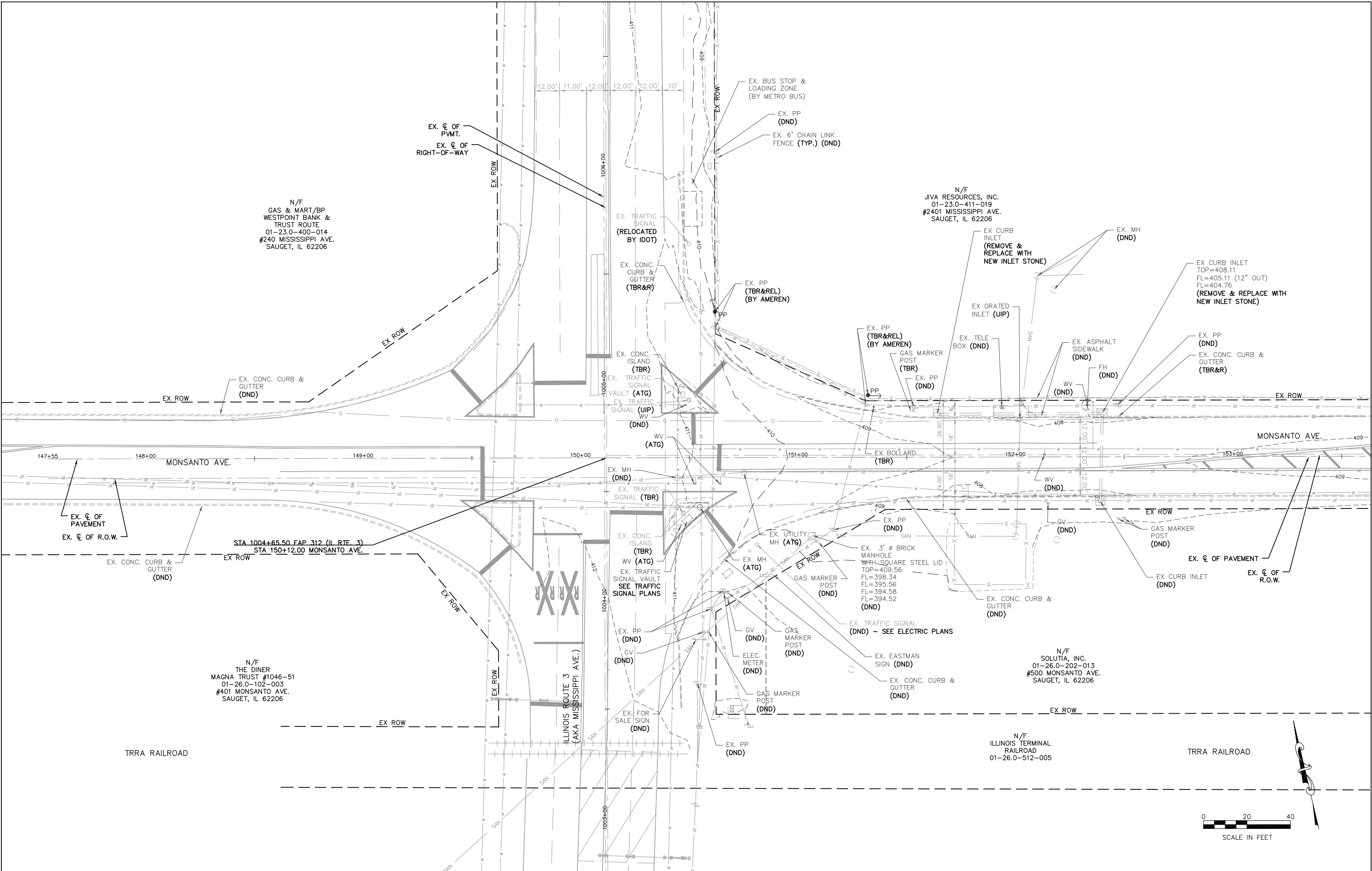
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STA 1003+75.00 TO 1004+65.50
NOT TO SCALE

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	DRAWN - CRO	REVISED -
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PLOT DATE = May 06, 2025 - 3:08PM	DATE - 5-6-2025	REVISED -

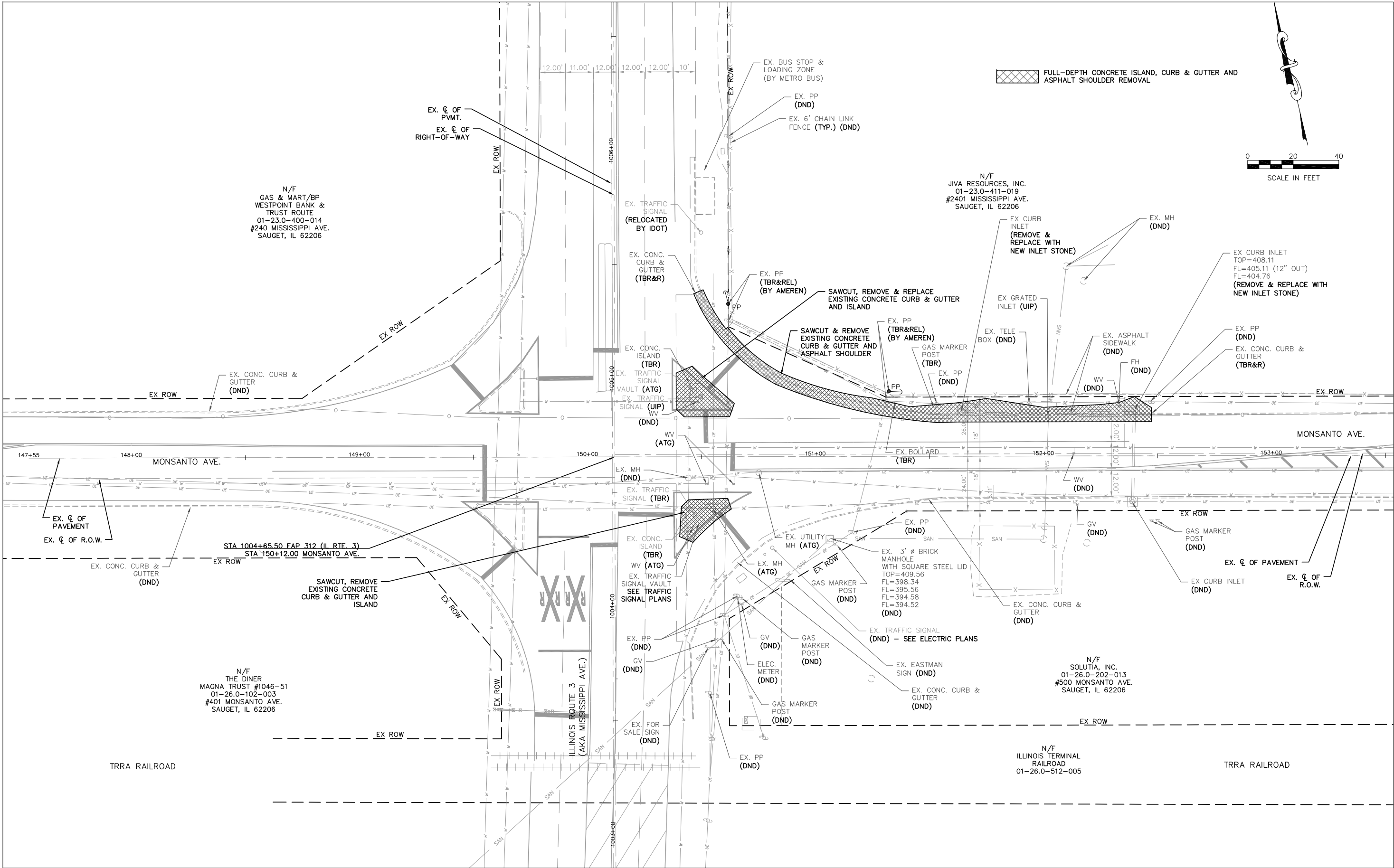
F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
312	16-00015-01-PV	ST. CLAIR	21	7
		CONTRACT NO. 97860		
ILLINOIS				

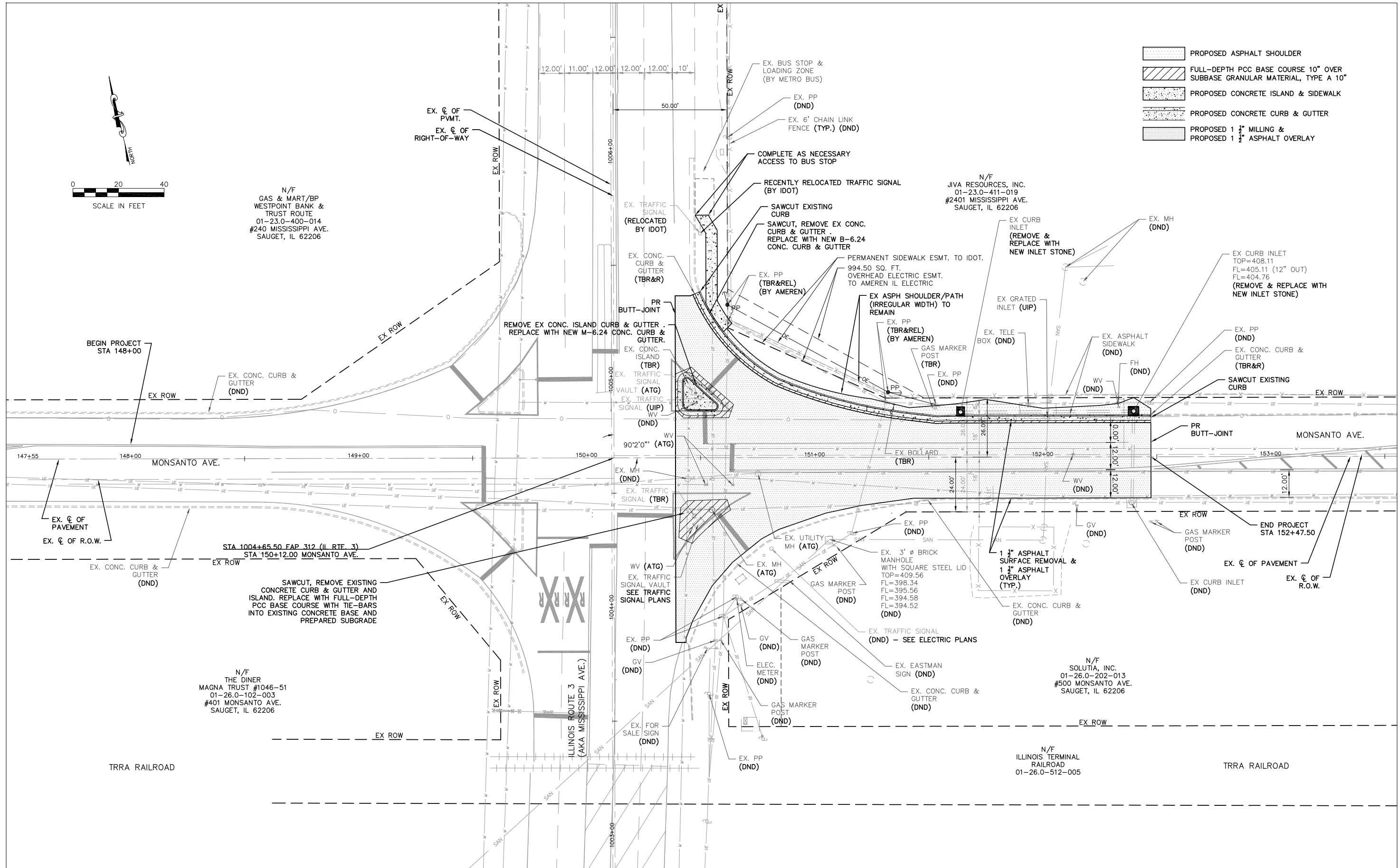
- ① EX BITUMINOUS CONCRETE SURFACE COURSE, MIX D, CLASS I, 1 1/2"
- ② EX BITUMINOUS CONCRETE BINDER COURSE 1 1/2"
- ③ EX HMA SURFACE COURSE, 1 1/2"
- ④ EX HMA BINDER COURSE, 2 1/4"
- ⑤ EX BITUMINOUS BASE COURSE, 13"
- ⑥ EX ASPHALT SHOULDERS, 8"
- ⑦ EX CONCRETE CURB & GUTTER
- ⑧ EX AGGREGATE BASE COURSE
- ⑨ EX JOINTED PCC PAVEMENT 10"
- ⑩ PR HOT-MIX ASPHALT SURFACE REMOVAL 1 1/2"
- ⑪ PR HOT-MIX ASPHALT SURFACE COURSE, IL-9.5 MIX "D", N90 1 1/2"
- ⑫ PR COMBINATION CONCRETE CURB & GUTTER TYPE B-6.24
- ⑬ PR TACK COAT
- ⑭ PR HOT MIX ASPHALT SHOULDERS, 8"
- ⑮ PR AGGREGATE BASE COURSE, 6"
- ⑯ PR AGGREGATE BASE COURSE, 10"
- ⑰ PR PORTLAND CEMENT CONCRETE BASE COURSE, 10"
- ⑱ PR DETECTOR LOOP INSTALLATION (SEE PLANS FOR LOCATIONS)

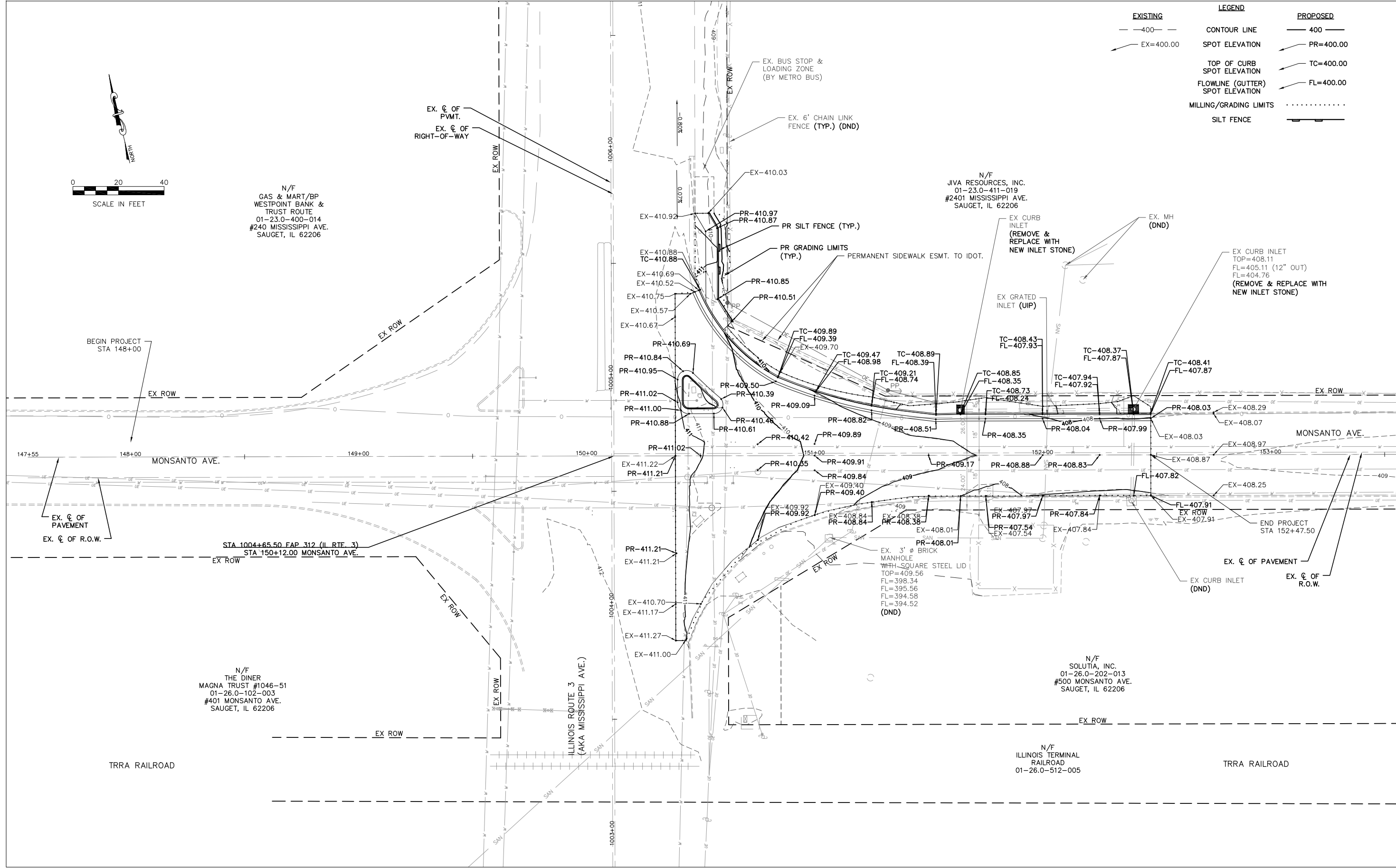




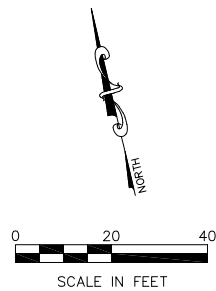
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	DRAWN – CRO			REVISED –					312	16–00015–01–PV	ST. CLAIR	21	9
	PLOT SCALE = 1" = 40'		CHECKED – MJS	REVISED –		SCALE: 1" = 20' SHEET NO. 1 OF 1 SHEETS STA. TO STA.			CONTRACT NO. 97860				
	PLOT DATE = Feb 18, 2025 – 11:08AM		DATE – 2–18–2025	REVISED –					ILLINOIS				



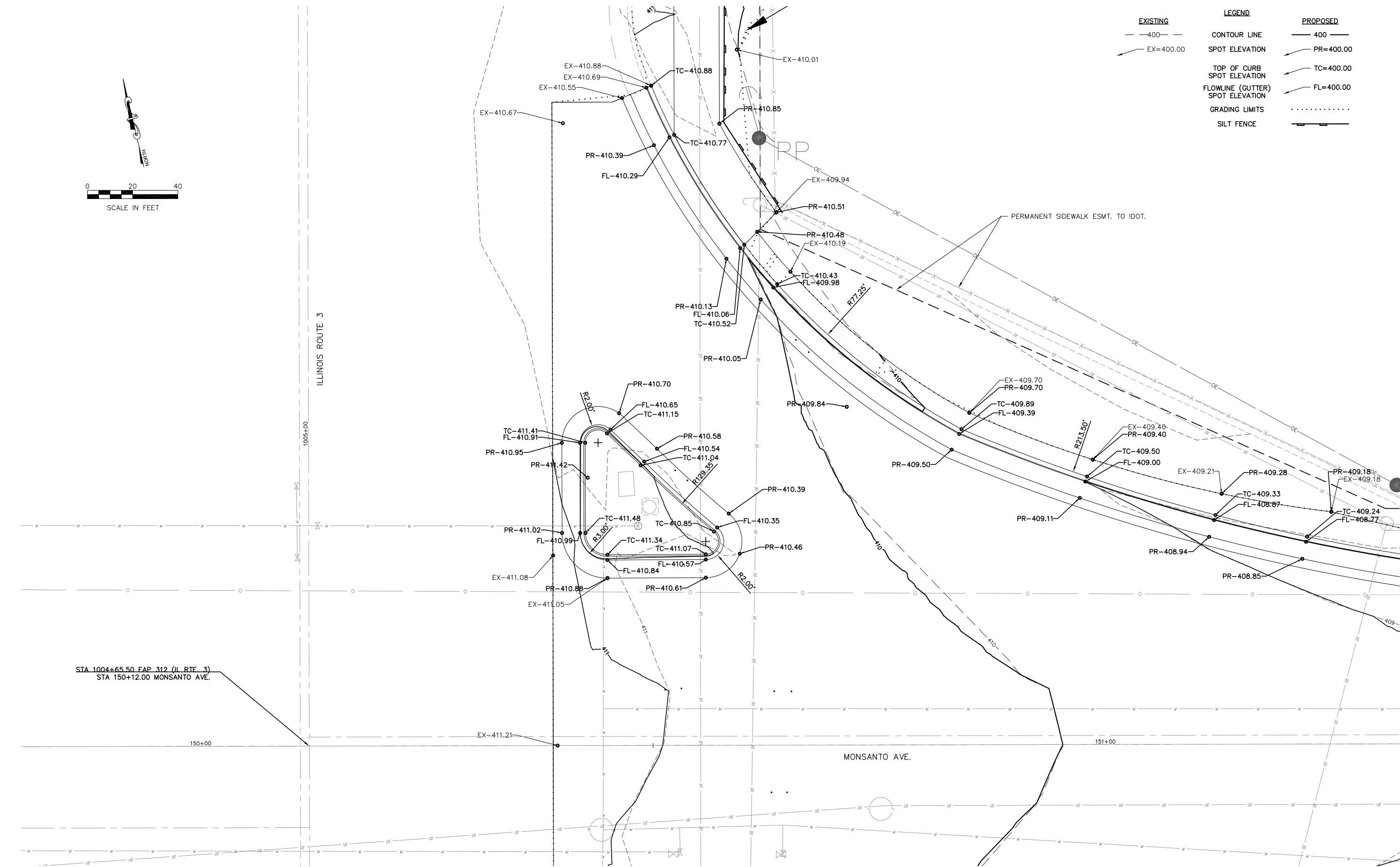




EXISTING		LEGEND	PROPOSED	
— 400 —		CONTOUR LINE	— 400 —	
EX=400.00		SPOT ELEVATION	PR=400.00	
		TOP OF CURB SPOT ELEVATION	TC=400.00	
		FLOWLINE (GUTTER) SPOT ELEVATION	FL=400.00	
		MILLING/GRADING LIMITS		
		SILT FENCE	— — — — —	

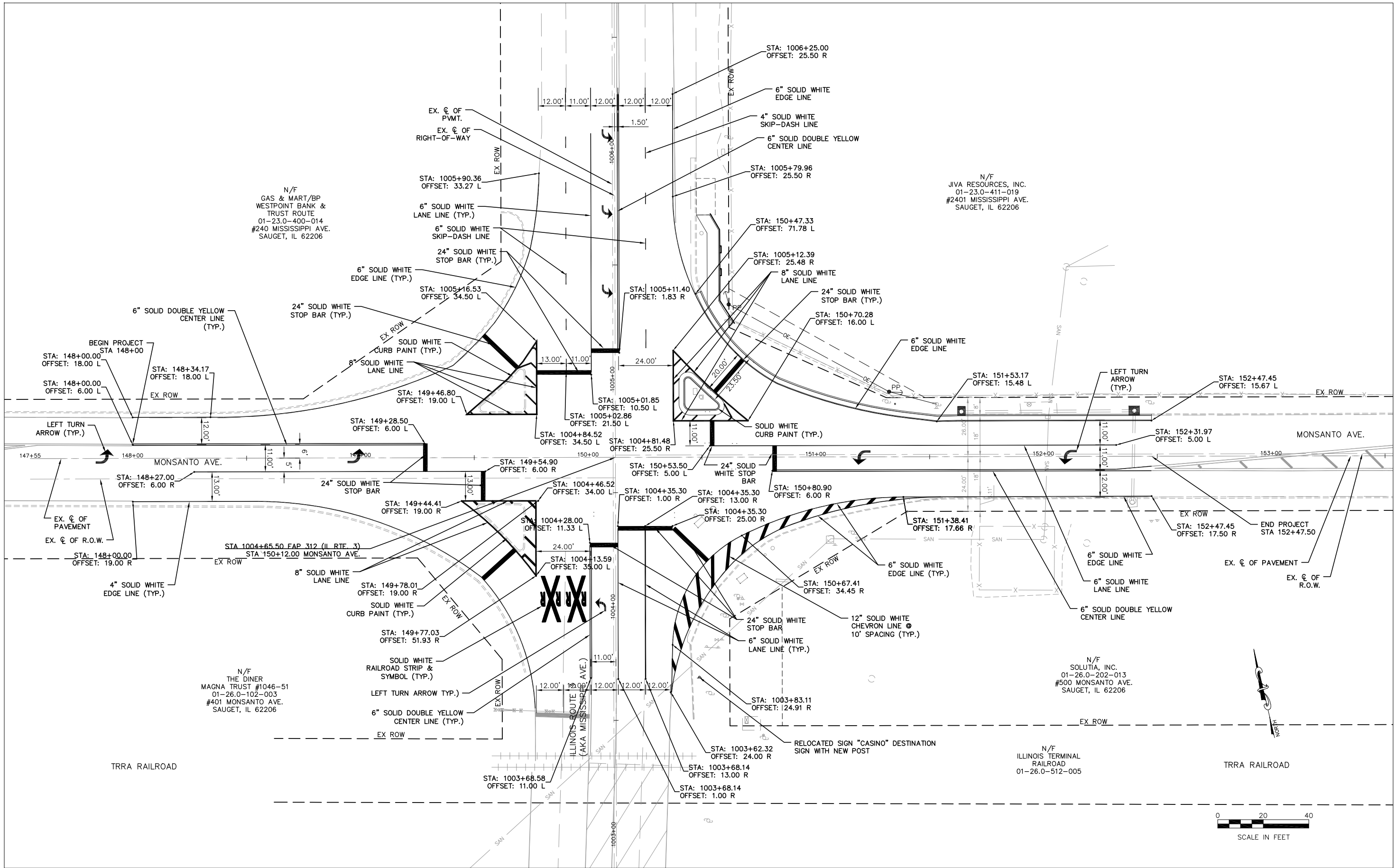


EXISTING	LEGEND	PROPOSED
— 400 —	CONTOUR LINE	— 400 —
EX=400.00	SPOT ELEVATION	PR=400.00
	TOP OF CURB SPOT ELEVATION	TC=400.00
	FLOWLINE (GUTTER) SPOT ELEVATION	FL=400.00
	GRADING LIMITS	
	SILT FENCE	=====



STA 100+65.50 FAP 312 (IL RTE 3)
STA 150+12.00 MONSANTO AVE.

 636.207.0832 wdg@weisdesigngroup.com	USER NAME = cro	DESIGNED – MJS	REVISED –	VILLAGE OF SAUGET ILLINOIS	MONSANTO AVENUE @ ROUTE 3 INTERSECTION IMPROVEMENTS GRADING PLAN (ENLARGED)			FAP RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
		DRAWN – CRO	REVISED –					312	16–00015–01–PV	ST. CLAIR	21	14
	PLOT SCALE = 1" = 5'	CHECKED – MJS	REVISED –					CONTRACT NO. 97860				
	PLOT DATE = Feb 18, 2025 – 11:58AM	DATE – 2–18–2025	REVISED –									
					SCALE: 1" = 5'	SHEET NO. 2 OF 2 SHEETS	STA.	TO STA.		ILLINOIS		



 636.207.0832 wdg@weisdesigngroup.com	USER NAME = cro		DESIGNED – MJS	REVISED –	VILLAGE OF SAUGET ILLINOIS	MONSANTO AVENUE @ ROUTE 3 INTERSECTION IMPROVEMENTS STRIPING & SIGNAGE PLAN				FAP RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
	DRAWN – CRO		CHECKED – MJS	REVISED –		312	16–00015–01–PV	ST. CLAIR	21	15				
	PLOT SCALE = 1" = 40'		DATE – 3–27–2025	REVISED –		CONTRACT NO. 97860								
	PLOT DATE = Mar 27, 2025 – 1:23PM					ILLINOIS								
						SCALE: 1" = 20'			SHEET NO. 1 OF 1 SHEETS		STA. TO STA.			

1

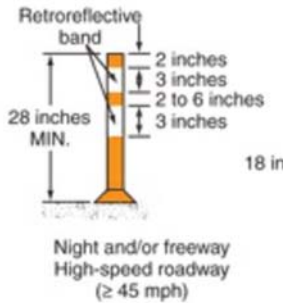


W20-I103

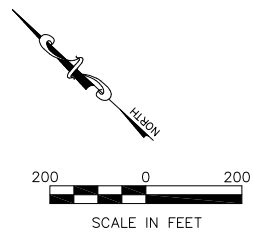
2

CONSTRUCTION
TO BEGIN WEEK
OF XX/XX

EMB
ELECTRONIC
MESSAGE BOARD



CHANNELIZING DEVICE



NOTES:

1. STANDARD 701901-08 SHALL BE USED FOR ALL TRAFFIC MANAGEMENT.

PHASING NOTES:

1. TWO WAY TRAFFIC TO BE MAINTAINED DURING CONSTRUCTION.
2. TO REDUCE THE ENCROACHMENT OF WORK WITHIN THE TRAVELED WAY, THE ENGINEER RECOMMENDS COMPLETING SHOULDER AND TURNING LANE WORK FOR ONE QUADRANT, BEFORE BEGINNING WORK IN THE PROPOSED TURNING LANE OF AN ADJACENT QUADRANT.
3. TEMPORARY STRIPING TO BE INSTALLED AS REQUIRED BY THE ILMUTCD.
4. TYPE III BARRICADES AND CHANNELIZERS TO BE RELOCATED AND REUSED FOR EACH QUADRANT/CORNER OF THE INTERSECTION, AS NECESSARY.

RECOMMENDED PHASING PER QUADRANT:

-PHASE 1

1. INSTALL WARNING SIGNS FOR CONSTRUCTION AND CHANGEABLE MESSAGE BOARDS 1 WEEK PRIOR TO MOBILIZATION.
2. INSTALL NEW SIGNALS.

-PHASE 2

1. INSTALL SEDIMENT CONTROL.
2. REMOVE SUBGRADE AGGREGATE & BASE COURSE AT SE ISLAND, REMOVE SUBGRADE AGGREGATE CURB & GUTTER AND PATH TO BUS STOP.

-PHASE 3

1. MILL EXISTING PAVEMENT AND PLACE NEW SURFACE COURSE.

-PHASE 4

1. INSTALL FINAL PAVEMENT MARKINGS.
2. TEST AND TROUBLESHOOT NEW SIGNALS.
3. SITE RESTORATION.



 636.207.0832 wdg@weisdesigngroup.com	USER NAME = cro	DESIGNED - MJS	REVISED -	STATE OF ILLINOIS DEPARTMENT OF TRANSPORTATION	MONSANTO AVENUE @ ROUTE 3 INTERSECTION IMPROVEMENTS TRAFFIC CONTROL & STAGING PLAN			RTE. 312	SECTION 16-00015-01-PV	COUNTY ST. CLAIR	TOTAL SHEETS 21	SHEET NO. 16			
	PLOT SCALE =	DRAWN - CRO	REVISED -												
	PLOT DATE = Feb 18, 2025 - 12:04PM	CHECKED - TPW	REVISED -		SCALE: 1"=200'										
		DATE - 2-18-2025	REVISED -		SHEET NO. 1 OF 1 SHEETS			TO STA.		CONTRACT NO. 97860					
ILLINOIS															

TRAFFIC SIGNAL LEGEND

-  EXISTING TRAFFIC SIGNAL MAST ARM
-  EXISTING SIGNAL HEAD WITH BACKPLATE
-  PROPOSED SIGNAL HEAD WITH BACKPLATE
-  EXISTING CONTROLLER
-  EXISTING HANDHOLE
-  PROPOSED HANDHOLE
-  EXISTING DOUBLE HANDHOLE
-  PROPOSED DOUBLE HANDHOLE
-  EXISTING DETECTOR LOOP
-  PROPOSED DETECTOR LOOP
-  EXISTING PVC OR GSC CONDUIT
-  PROPOSED PVC OR GSC CONDUIT: "T" TRENCH, "P" PUSH, SIZE SPECIFIED

ELECTRICAL GENERAL NOTES

1.

ALL VEHICLE AND PEDESTRIAN SIGNAL HEADS SHALL HAVE 12" L.E.D. SECTIONS. ALL MOUNTING HARDWARE, SIGNAL POSTS, AND BASES SHALL BE UNPAINTED ALUMINUM. ALL BOLTS, SCREWS, NUTS AND WASHERS SHALL BE STAINLESS STEEL. ANTI-SEIZE PASTE COMPOUND SHALL BE USED ON ALL MOUNTING HARDWARE FIELD CONNECTIONS.
2.

BACKPLATES SHALL BE ABS PLASTIC.
3.

ALL TRAFFIC CABLES SHALL BE #14 AWG STRANDED COPPER UNLESS OTHERWISE SPECIFIED.
4.

ALL HANDHOLES SHALL BE CAST-IN-PLACE PORTLAND CEMENT CONCRETE (PER ARTICLE 814.03(A)). THE CAST IN PLACE LEGEND IN THE COVER SHALL BE "TRAFFIC SIGNALS". SLOPE HANDHOLE COVERS TO MATCH PROPOSED GRADE ELEVATIONS.
5.

ALL UTILITIES SHALL BE LOCATED IN THE FIELD PRIOR TO ANY ATTEMPT TO CONSTRUCT ANY COMPONENT OF THE VARIOUS TRAFFIC SIGNAL INSTALLATION. AGENCIES KNOWN TO HAVE UNDERGROUND FACILITIES WITHIN THE LIMITS OF THIS IMPROVEMENT ARE THE FOLLOWING: MEMBER OF J.U.L.I.E. PHONE (800) 892-0123 ARE INDICATED BY * (CALL ONE WEEK BEFORE YOU PLAN TO DIG).

*AMERITECH (COMM.)

*AMEREN ILLINOIS POWER (GAS & ELECTRIC)

*CAHOKIA PUBLIC WATER DISTRICT

*IL AMERICAN WATER CO.

*INDUSTRIAL GAS PRODUCTS, INC.

*MARATHON ASHLAND PIPELINE, LLC

*NETWORK 360 (COMM)

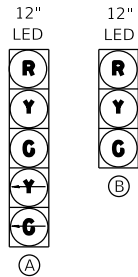
*VILLAGE OF SAUGET (WATER & SEWER)

*AT&T (COMM.)

*CHARTER/SPECTRUM (COMM.)

6.

A 1/4" NYLON PULL ROPE SHALL BE FURNISHED AND INSTALLED IN ALL SIGNAL CONDUITS, THIS WORK SHALL BE INCLUDED WITH THE CONDUIT PAY ITEM.
- HIGHWAY STANDARDS
- 720001 SIGN PANEL MOUNTING DETAILS
805001 ELECTRICAL SERVICE INSTALLATION DETAILS
814001 HANDHOLES
814006 DOUBLE HANDHOLES
857001 STANDARD PHASE DESIGNATION DIAGRAMS & PHASE SEQUENCES
873001 TRAFFIC SIGNAL GROUNDING AND BONDING
878001 CONCRETE FOUNDATION DETAILS
880006 TRAFFIC SIGNAL MOUNTING DETAILS
886001 DETECTOR LOOP INSTALLATIONS
886006 TYPICAL LAYOUTS FOR DETECTION LOOPS
- | SCHEDULE OF QUANTITIES | | | IL 3 AT MONSANTO |
|------------------------|--|-------|------------------|
| CODE NO. | ITEM | UNIT | |
| 72000100 | SIGN PANEL, TYPE 1 | SQ FT | 5.0 |
| 81028760 | UNDERGROUND CONDUIT, COILABLE NONMETALLIC CONDUIT, 2 1/2" DIA. | FOOT | 21 |
| 81028790 | UNDERGROUND CONDUIT, COILABLE NONMETALLIC CONDUIT, 4" DIA. | FOOT | 210 |
| 81028330 | UNDERGROUND CONDUIT, PVC, 1 1/4" DIA. | FOOT | 90 |
| 81400720 | DOUBLE HANDHOLE, PORTLAND CEMENT CONCRETE | EACH | 1 |
| 85000200 | MAINTENANCE OF EXISTING TRAFFIC SIGNAL INSTALLATION | EACH | 1 |
| 87301215 | ELECTRIC CABLE IN CONDUIT, SIGNAL NO. 14 2C | FOOT | 830 |
| 87301245 | ELECTRIC CABLE IN CONDUIT, SIGNAL NO. 14 5C | FOOT | 1410 |
| 87301255 | ELECTRIC CABLE IN CONDUIT, SIGNAL NO. 14 7C | FOOT | 1500 |
| 87301305 | ELECTRIC CABLE IN CONDUIT, LEAD-IN, NO. 14 1 PAIR | FOOT | 1860 |
| 87301900 | ELECTRIC CABLE IN CONDUIT, EQUIPMENT GROUNDING CONDUCTOR, NO. 6 1C | FOOT | 610 |
| 87501100 | TRAFFIC SIGNAL POST, 15 FT. | EACH | 1 |
| 87800100 | CONCRETE FOUNDATION, TYPE A | FOOT | 3 |
| 87900100 | DRILL EXISTING FOUNDATION | EACH | 1 |
| 87900200 | DRILL EXISTING HANDHOLE | EACH | 2 |
| 88030050 | SIGNAL HEAD, LED, 1-FACE, 3-SECTION, BRACKET MOUNTED | EACH | 1 |
| 88030100 | SIGNAL HEAD, LED, 1-FACE, 5-SECTION, BRACKET MOUNTED | EACH | 1 |
| 88600100 | DETECTOR LOOP, TYPE I | FOOT | 2400 |
| 89502200 | MODIFY EXISTING CONTROLLER | EACH | 1 |
| 89502375 | REMOVE EXISTING TRAFFIC SIGNAL EQUIPMENT | EACH | 1 |
| 89502382 | REMOVE EXISTING DOUBLE HANDHOLE | EACH | 1 |
| 89502385 | REMOVE EXISTING CONCRETE FOUNDATION | EACH | 1 |
- DETECTOR LOOP REQUIREMENTS AND CALCULATIONS FOR IL 3 AT MONSANTO AVE.
- | LOOP | | PHASE (Φ) | LOOP SIZE (FT) | REQUIRED # OF TURNS | CALCULATED INDUCTANCE MICROHENRIES (μH) | CALCULATED RESISTANCE OHMS (Ω) |
|------|------------|-----------|----------------|---------------------|---|--------------------------------|
| 1 | NB LT CD | 5 | 6' X 50' (Q) | 3-6-3 | 818.2 | 2.3 |
| 2 | NB THRU CD | 2 | 6' X 50' (Q) | 3-6-3 | 815.4 | 2.3 |
| 3 | NB THRU CD | 2 | 6' X 50' (Q) | 3-6-3 | 363.0 | 2.8 |
| 4 | NB THRU RT | 2 | 6' X 30' (Q) | 3-6-3 | 831.9 | 2.6 |
| 5 | WB LT CD | 7 | 6' X 50' (Q) | 3-6-3 | 828.4 | 2.6 |
| 6 | WB THRU CD | 4 | 6' X 50' (Q) | 3-6-3 | 814.6 | 2.2 |
| 7 | WB THRU RT | 4 | 6' X 40' (Q) | 3-6-3 | 655.7 | 1.7 |
| 8 | SB LT CD | 1 | 6' X 50' (Q) | 3-6-3 | 799.8 | 1.9 |
| 9 | SB THRU CD | 6 | 6' X 50' (Q) | 3-6-3 | 838.8 | 2.8 |
| 10 | SB THRU CD | 6 | 6' X 50' (Q) | 3-6-3 | 836.1 | 2.7 |
| 11 | SB THRU RT | 6 | 6' X 40' (Q) | 3-6-3 | 682.6 | 2.4 |
| 12 | EB LT CD | 3 | 6' X 50' (Q) | 3-6-3 | 826.1 | 2.5 |
| 13 | EB THRU CD | 8 | 6' X 50' (Q) | 3-6-3 | 820.7 | 2.4 |
| 14 | EB THRU RT | 8 | 6' X 40' (Q) | 3-6-3 | 672.7 | 2.1 |
- THE ABOVE VALUES ARE CALCULATED OF COMBINED LOOP AND LEAD-IN INDUCTANCE AND RESISTANCE. ACTUAL MEASURED VALUES SHOULD BE WITHIN +/- 20% OF THESE VALUES.
- LAST SAVED = 9/15/2025 10:03:35 AM
PLOT SCALE = 1" = 40' / 1" = 40'
PLOT DATE = 2/14/2025 10:03:35 AM
- | | | | |
|--|-----------------------------------|--------------------------------|-----------|
| FILE NAME = | USER NAME = PWICS* | DESIGNED <i>TARA WILKINSON</i> | REVISED - |
| C:\ICS4\PDF\25185\55226.15\2101601-sh-t-TS.dgn | | DRAWN <i>TARA WILKINSON</i> | REVISED - |
| | PLOT SCALE = 2.0000' / 1" = | CHECKED <i>TOBIN BONNELL</i> | REVISED - |
| | PLOT DATE = 2/14/2025 10:03:35 AM | DATE <i>02/14/2025</i> | REVISED - |
-
- | TRAFFIC SIGNAL DETAILS | | | | FAP ROUTE 312 (IL 3) | | TOTAL SHEETS | SHEET NO. |
|-------------------------|--|--|--|----------------------|--|--------------|-----------|
| SCALE: NTS | | | | | | 17 | 21 |
| SHEET NO. 1 OF 3 SHEETS | | | | | | | |
| STA. TO STA. | | | | | | | |
- CONTRACT # 97860



TRAFFIC SIGNAL FACES



W25-2
24" X 30"

①

SIGNS

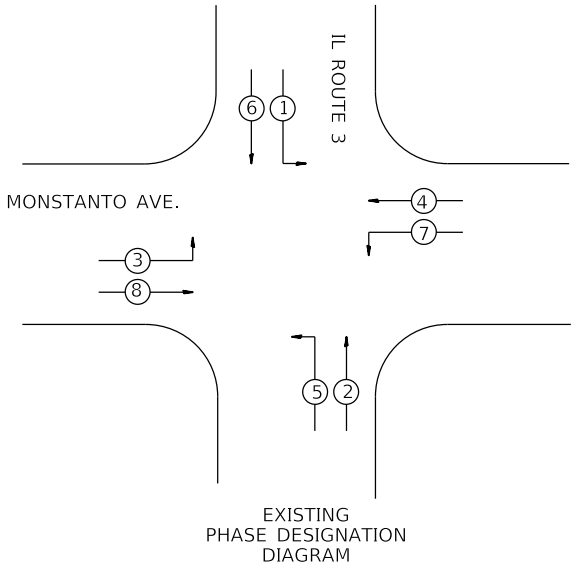
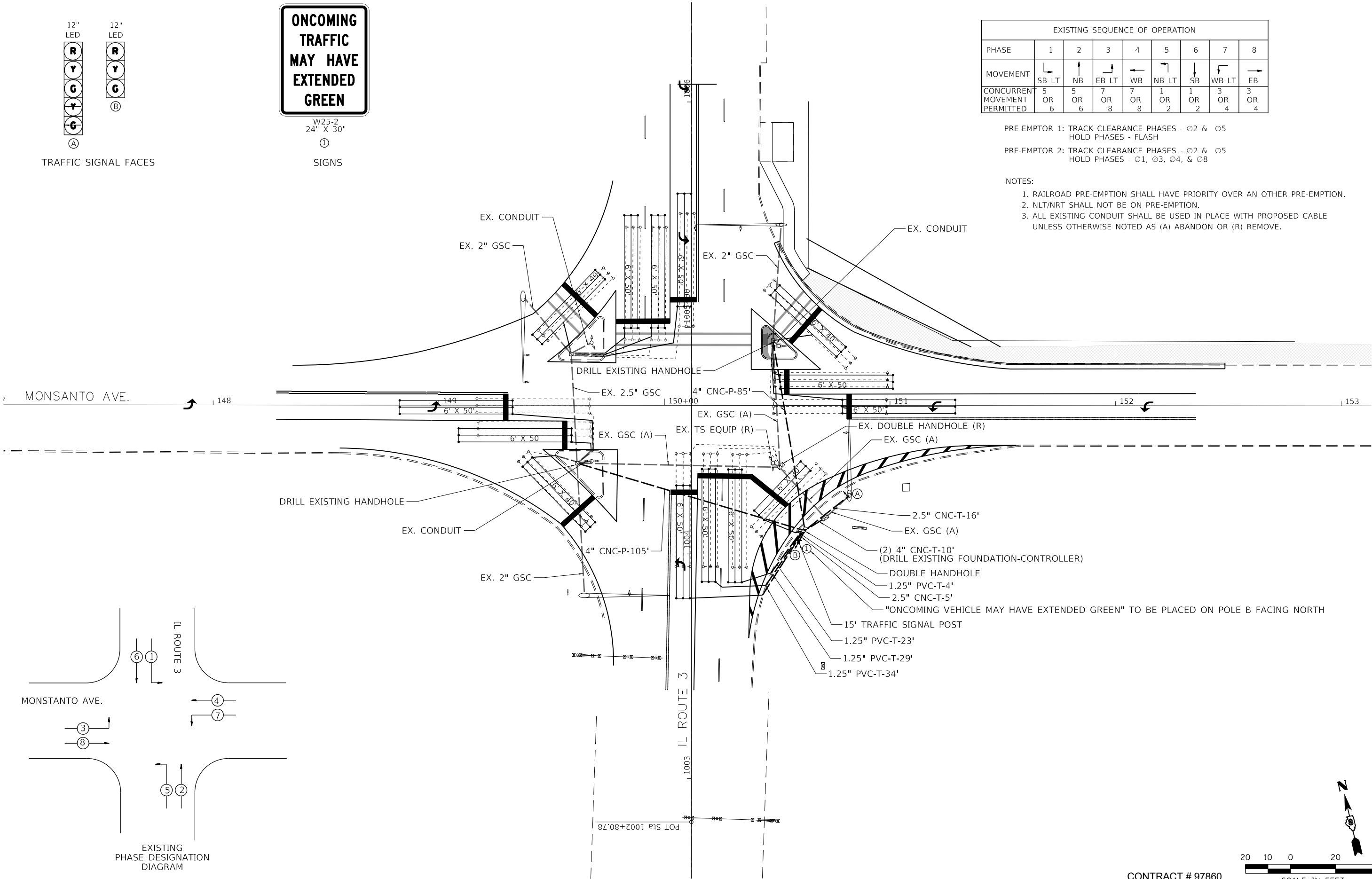
EXISTING SEQUENCE OF OPERATION								
PHASE	1	2	3	4	5	6	7	8
MOVEMENT	SB LT	NB	EB LT	WB	NB LT	SB	WB LT	EB
CONCURRENT MOVEMENT PERMITTED	5 OR 6	5 OR 6	7 OR 8	7 OR 8	1 OR 2	1 OR 2	3 OR 4	3 OR 4

PRE-EMPTOR 1: TRACK CLEARANCE PHASES - ② & ⑤
HOLD PHASES - FLASH

PRE-EMPTOR 2: TRACK CLEARANCE PHASES - ② & ⑤
HOLD PHASES - ①, ③, ④, & ⑧

NOTES:

- RAILROAD PRE-EMPTION SHALL HAVE PRIORITY OVER AN OTHER PRE-EMPTION.
- NLT/NRT SHALL NOT BE ON PRE-EMPTION.
- ALL EXISTING CONDUIT SHALL BE USED IN PLACE WITH PROPOSED CABLE UNLESS OTHERWISE NOTED AS (A) ABANDON OR (R) REMOVE.



LAST SAVED = 04/15/2025 10:03:40 AM
PEN TABLE = 04/15/2025 10:03:40 AM
PLOT DRIVER = 04/15/2025 10:03:40 AM

FILE NAME =	USER NAME = PWICS*	DESIGNED TARA WILKINSON	REVISED -
C:\ICS4\PDF\25185\55226.17\2101601-shit-TS2.dgn		DRAWN TARA WILKINSON	REVISED -
	PLOT SCALE = 40.0000' / in.	CHECKED TOBIN BONNELL	REVISED -
	PLOT DATE = 2/14/2025 10:03:40 AM	DATE 02/14/2025	REVISED -



TRAFFIC SIGNAL DETAILS				FAP ROUTE 312 (IL 3)	
SCALE: 1" = 20'	SHEET NO. 2 OF 3 SHEETS	STA.	TO STA.	TOTAL SHEETS 18	SHEET NO. 21

CONTRACT # 97860



CABLE DIAGRAM LEGEND

- ELECTRIC CABLE IN CONDUIT
- 2/C

INDICATES NUMBER OF CONDUCTORS IN CABLE
- #14

INDICATES AMERICAN WIRE GAUGE (AWG) SIZE 14 CONDUCTORS (SEE GENERAL NOTES)
- EXISTING EQUIPMENT
- PROPOSED EQUIPMENT

MONSANTO AVE.

IL ROUTE 3

FAP ROUTE 312 (IL 3)

CONTROLLER



NO
RIGHT
TURN

NRT

NO
LEFT
TURN

NLT

FIBER OPTIC SIGNS

LAST SAVED = 04/25/2025 10:03:39 AM
PEN TABLE = 04/25/2025 10:03:39 AM
PLOT DRIVER = 04/25/2025 10:03:39 AM

FILE NAME = C:\ICS4\PDF\25185\55226.18\2101601-shit-TS3.dgn		USER NAME = PWICS*	DESIGNED TARA WILKINSON	REVISED -	 WWW.HORNERSHIFRIN.COM	TRAFFIC SIGNAL DETAILS			FAP ROUTE 312 (IL 3)		TOTAL SHEETS	SHEET NO.
DRAWN TARA WILKINSON			CHECKED TOBIN BONNELL	REVISED -							19	21
PLOT SCALE = 40.0000' / in.			DATE 02/14/2025	REVISED -		SCALE: NTS	SHEET NO. 3 OF 3 SHEETS	STA.	TO STA.			
PLOT DATE = 2/14/2025 10:03:39 AM												

