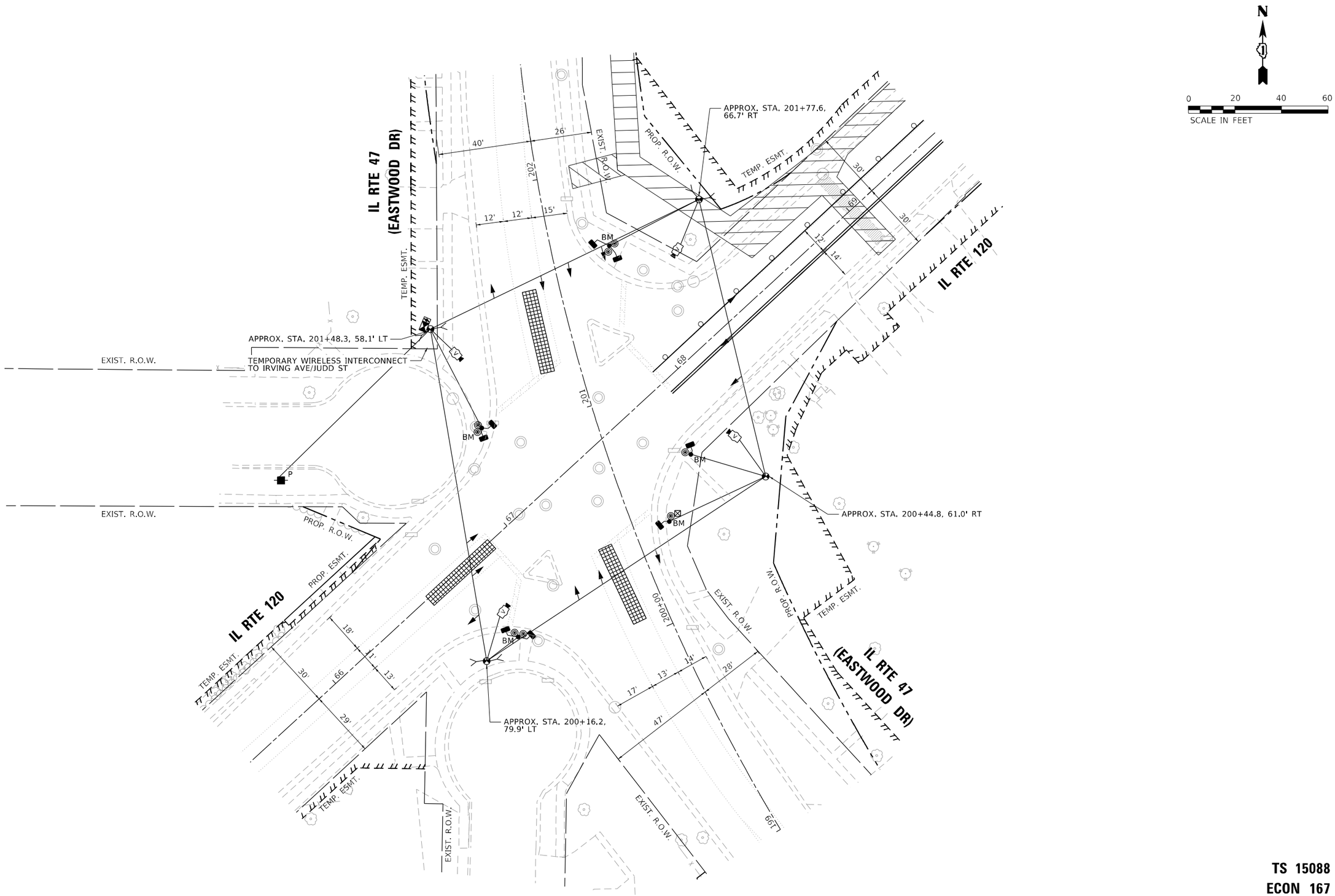

TS SHT NO. 66

TS 15088
ECON 167

MODEL: Default
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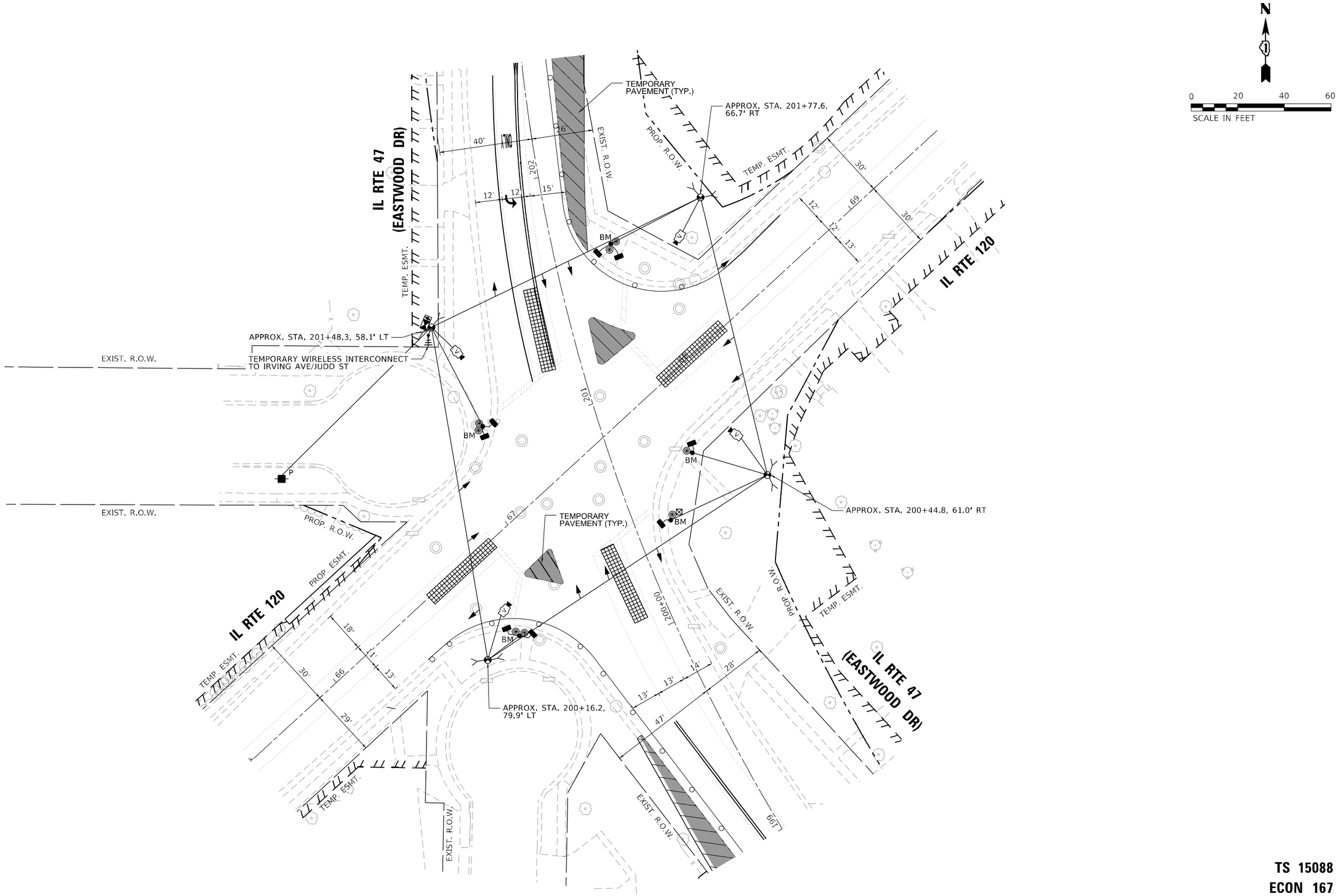
ATLAS TECHNICAL CONSULTANTS, LLC 100 S. WACKER DRIVE, SUITE 400 CHICAGO, IL 60606	USER NAME = nsalehian	DESIGNED - NS	REVISED -	STATE OF ILLINOIS DEPARTMENT OF TRANSPORTATION	TEMPORARY TRAFFIC SIGNAL INSTALLATION PLAN – PRESTAGE A IL RTE 47 (EASTWOOD DR) AND IL RTE 120
		DRAWN - NS	REVISED -		
	PLOT SCALE = 40.0000 ' / in.	CHECKED - TS	REVISED -		SCALE: SHEET OF SHEETS STA. TO STA.
	PLOT DATE = 2/6/2025	DATE - 02/06/2025	REVISED -		

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
326	2024-1052-N,C,SW,FL.	MCHENRY	941	801
		CONTRACT NO. 62X94		
		ILLINOIS	FED. AID PROJECT	



TS SHT NO. 67

TS 15088
ECON 167

MODEL: Default
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ATLAS
ATLAS TECHNICAL CONSULTANTS, LLC
100 S. WACKER DRIVE, SUITE 400
CHICAGO, IL 60606

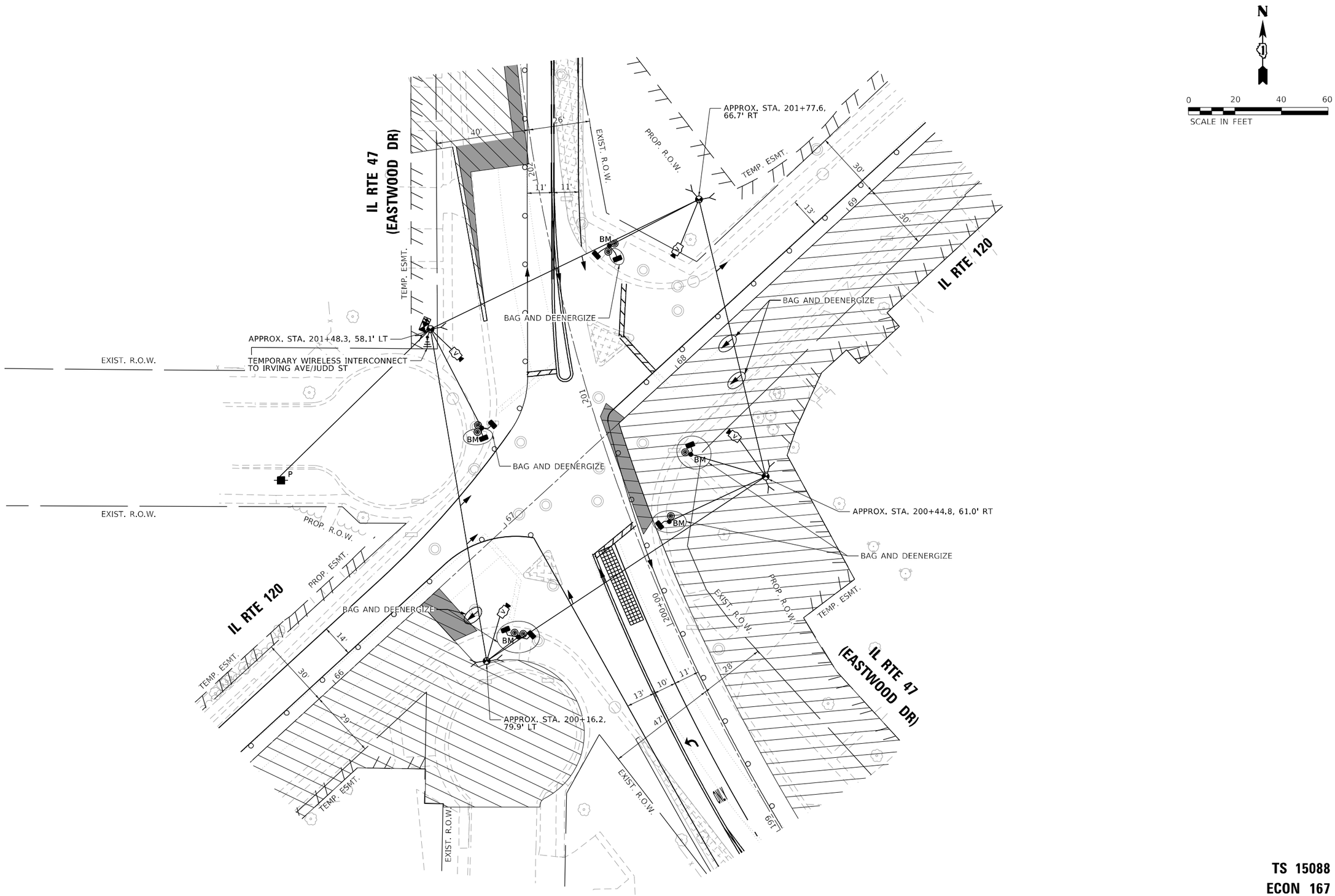
USER NAME = nsalehian	DESIGNED - NS	REVISED -	
	DRAWN - NS	REVISED -	
PLOT SCALE = 40.0000 ' / in.	CHECKED - TS	REVISED -	
PLOT DATE = 2/6/2025	DATE - 02/06/2025	REVISED -	

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

TEMPORARY TRAFFIC SIGNAL INSTALLATION PLAN – PRESTAGE B
IL RTE 47 (EASTWOOD DR) AND IL RTE 120

SCALE: SHEET OF SHEETS STA. TO STA.

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
326	2024-1052-N,C,SW,FL.	MCHENRY	941	802
		CONTRACT NO. 62X94		
		ILLINOIS FED. AID PROJECT		



TS SHT NO. 68

TS 15088
ECON 167

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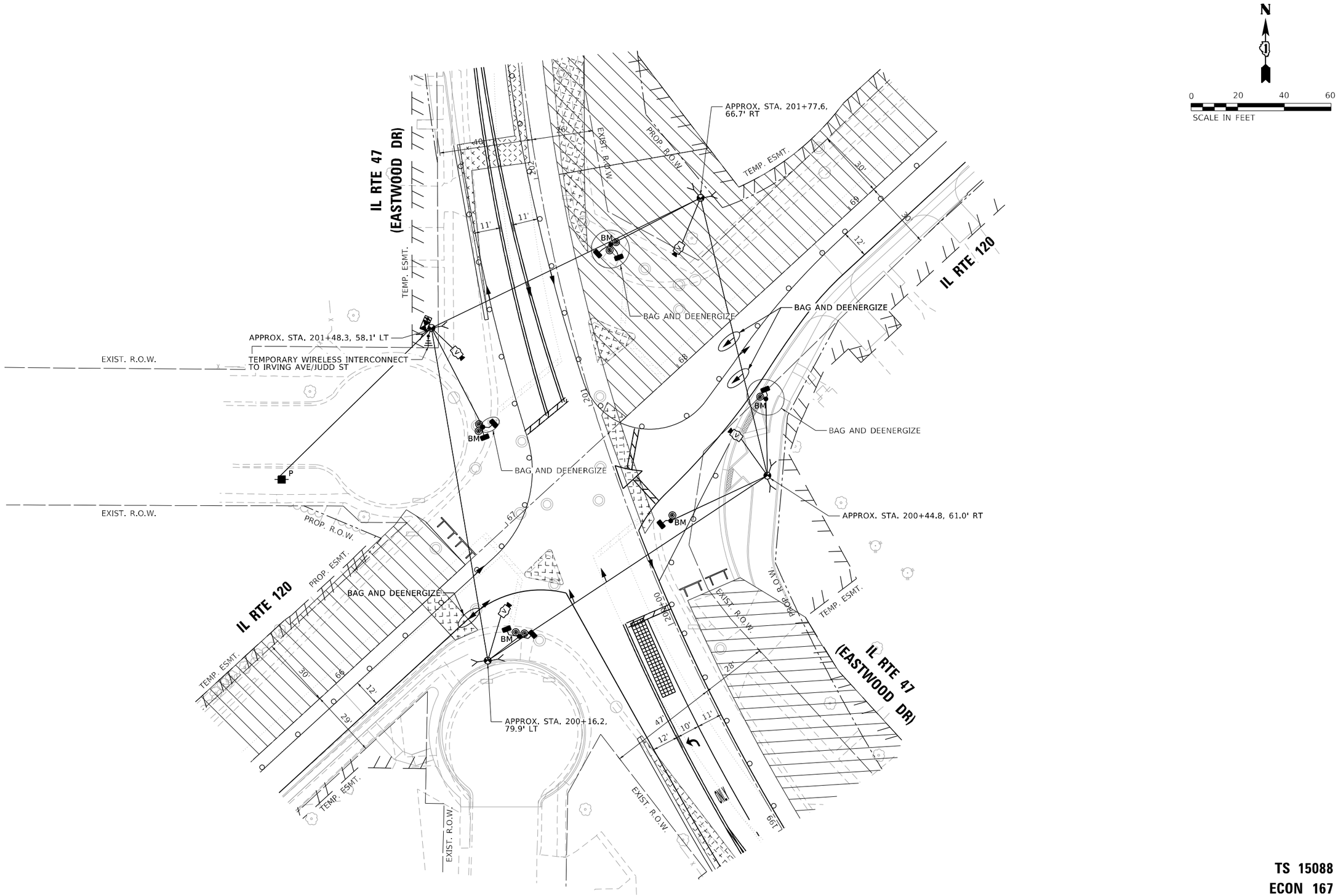
ATLAS TECHNICAL CONSULTANTS, LLC 100 S. WACKER DRIVE, SUITE 400 CHICAGO, IL 60606	USER NAME = nsalehian	DESIGNED - NS	REVISED -	STATE OF ILLINOIS DEPARTMENT OF TRANSPORTATION	TEMPORARY TRAFFIC SIGNAL INSTALLATION PLAN – STAGE 1A IL RTE 47 (EASTWOOD DR) AND IL RTE 120	F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
		DRAWN - NS	REVISED -			326	2024-1052-N,C,SW,FL.	MCHENRY	941	803
	PLOT SCALE = 40.0000 ' / in.	CHECKED - TS	REVISED -					CONTRACT NO. 62X94		
	PLOT DATE = 2/6/2025	DATE - 02/06/2025	REVISED -		SCALE: SHEET OF SHEETS STA. TO STA.		ILLINOIS FED. AID PROJECT			



TS SHT NO. 69

TS 15088
ECON 167

MODEL: Default
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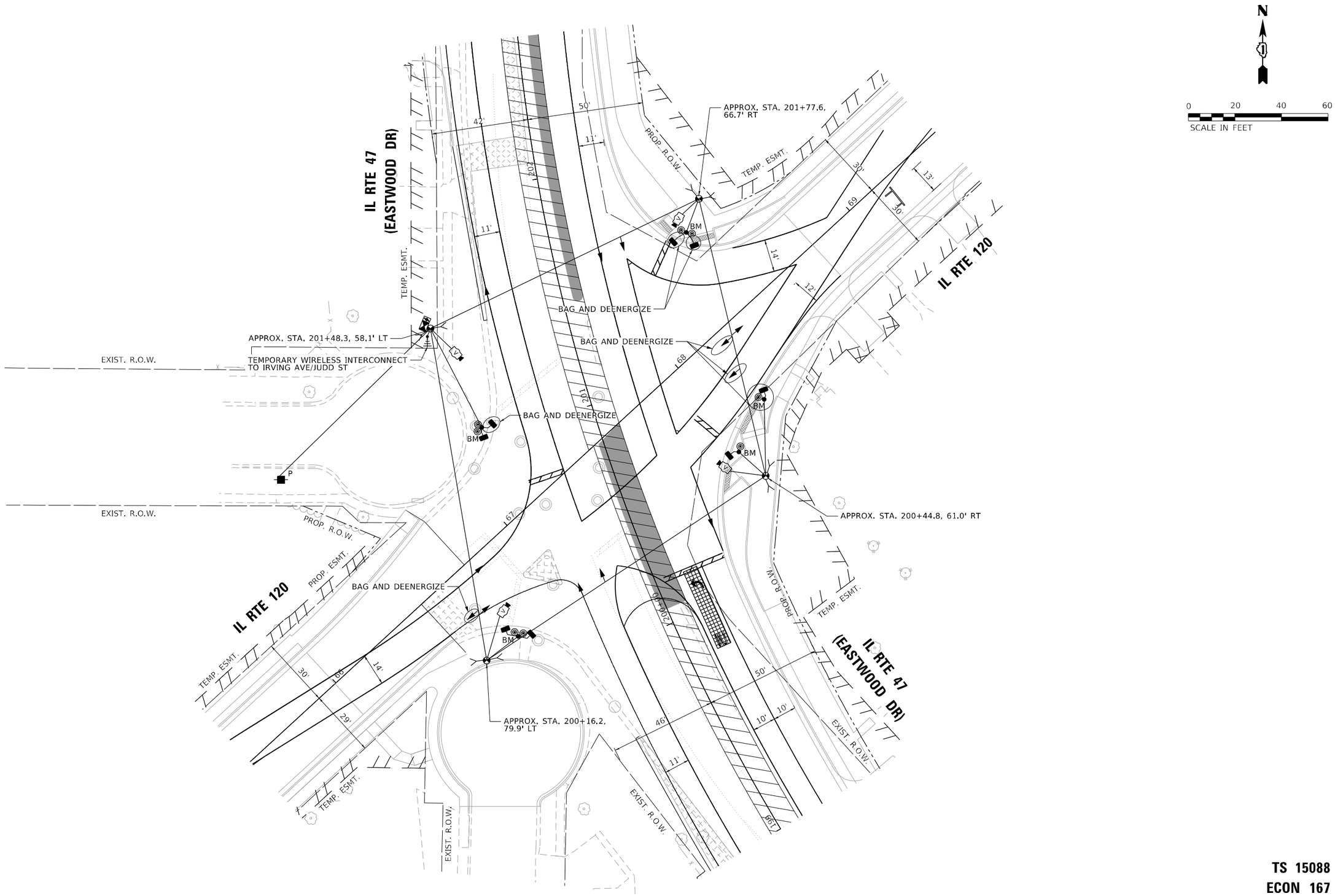
ATLAS TECHNICAL CONSULTANTS, LLC 100 S. WACKER DRIVE, SUITE 400 CHICAGO, IL 60606	USER NAME = nsalehian	DESIGNED - NS	REVISED -	STATE OF ILLINOIS DEPARTMENT OF TRANSPORTATION	TEMPORARY TRAFFIC SIGNAL INSTALLATION PLAN – STAGE 1B IL RTE 47 (EASTWOOD DR) AND IL RTE 120	F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS / SHEET NO.
		DRAWN - NS	REVISED -			326	2024-1052-N,C,SW,FL.	MCHENRY	941 / 804
	PLOT SCALE = 40.0000 ' / in.	CHECKED - TS	REVISED -					CONTRACT NO. 62X94	
	PLOT DATE = 2/6/2025	DATE - 02/06/2025	REVISED -		SCALE: SHEET OF SHEETS STA. TO STA.		ILLINOIS FED. AID PROJECT		



TS SHT NO. 70

TS 15088

ECON 167

MODEL: Default
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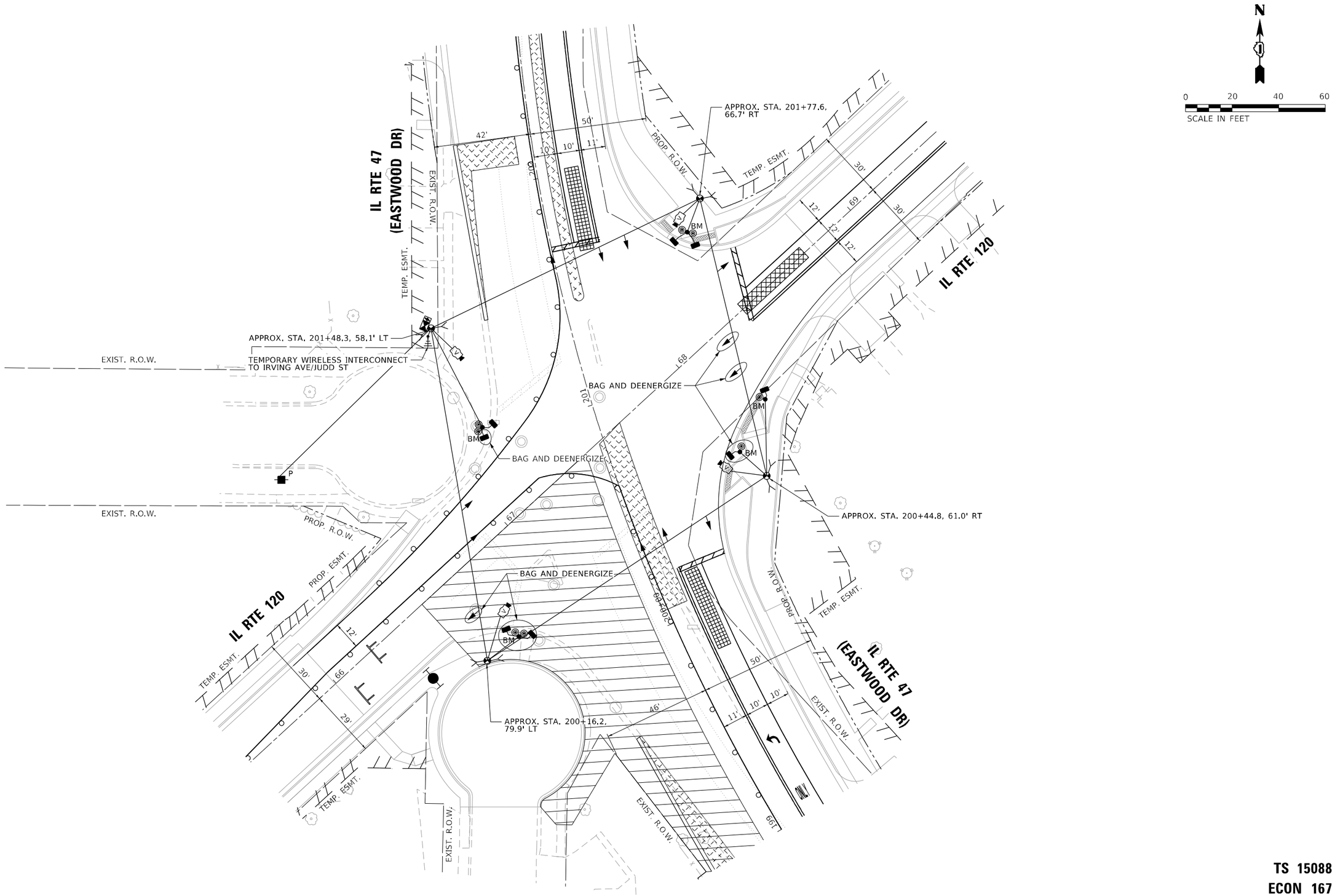
ATLAS TECHNICAL CONSULTANTS, LLC 100 S. WACKER DRIVE, SUITE 400 CHICAGO, IL 60606	USER NAME = nsalehian	DESIGNED - NS	REVISED -	STATE OF ILLINOIS DEPARTMENT OF TRANSPORTATION	TEMPORARY TRAFFIC SIGNAL INSTALLATION PLAN – STAGE 1C IL RTE 47 (EASTWOOD DR) AND IL RTE 120	F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS / SHEET NO.
		DRAWN - NS	REVISED -			326	2024-1052-N,C,SW,FL.	MCHENRY	941 / 805
	PLOT SCALE = 40.0000 ' / in.	CHECKED - TS	REVISED -					CONTRACT NO. 62X94	
	PLOT DATE = 2/6/2025	DATE - 02/06/2025	REVISED -		SCALE: SHEET OF SHEETS STA. TO STA.		ILLINOIS FED. AID PROJECT		



TS SHT NO. 71

TS 15088

ECON 167

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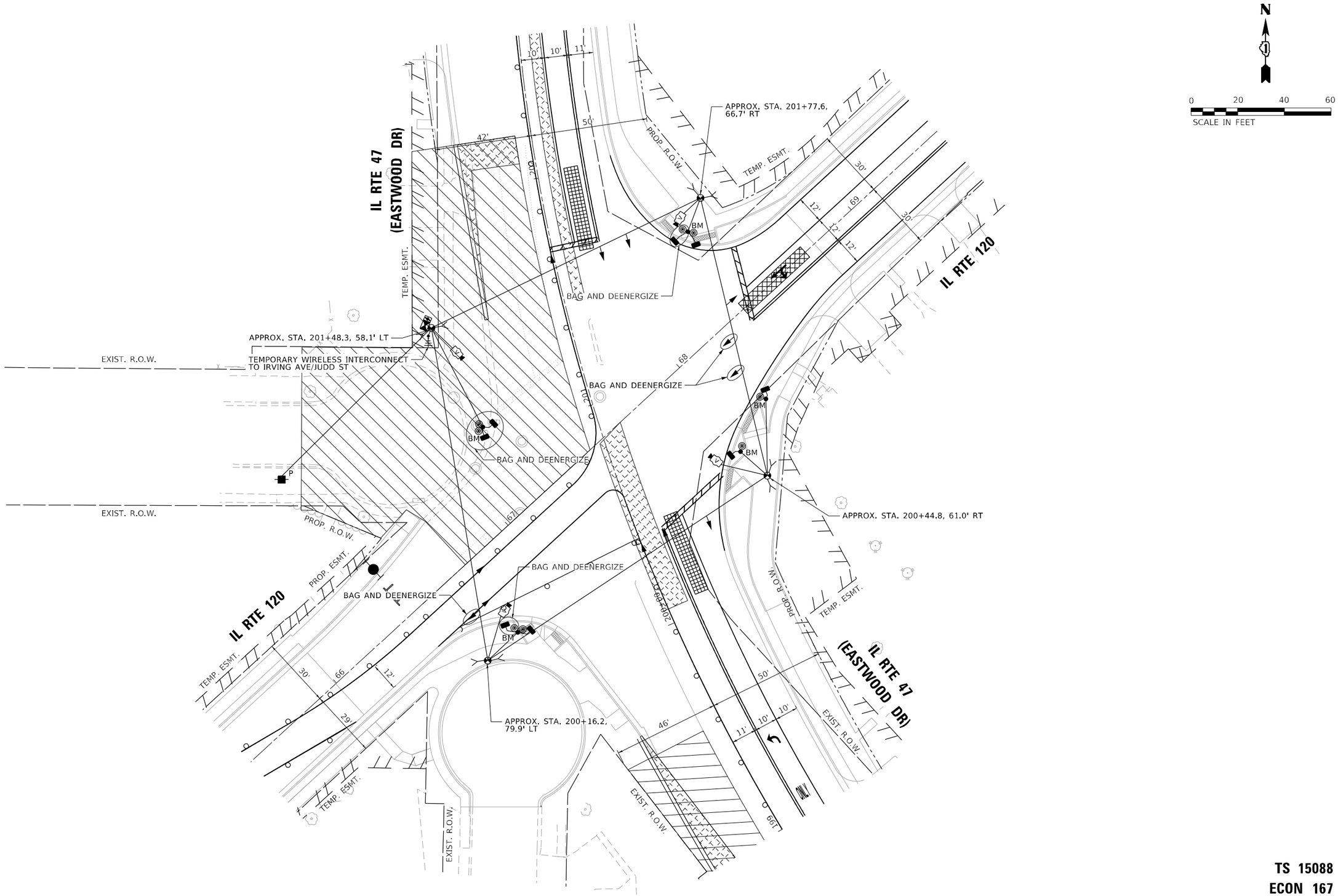
ATLAS TECHNICAL CONSULTANTS, LLC 100 S. WACKER DRIVE, SUITE 400 CHICAGO, IL 60606	USER NAME = nsalehian	DESIGNED - NS	REVISED -	STATE OF ILLINOIS DEPARTMENT OF TRANSPORTATION	TEMPORARY TRAFFIC SIGNAL INSTALLATION PLAN – STAGE 2A IL RTE 47 (EASTWOOD DR) AND IL RTE 120
		DRAWN - NS	REVISED -		
	PLOT SCALE = 40.0000 ' / in.	CHECKED - TS	REVISED -		
	PLOT DATE = 2/6/2025	DATE - 02/06/2025	REVISED -		SCALE: SHEET OF SHEETS STA. TO STA.

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
326	2024-1052-N,C,SW,FL.	MCHENRY	941	806
		CONTRACT NO. 62X94		
		ILLINOIS	FED. AID PROJECT	



TS SHT NO. 72

TS 15088

ECON 167

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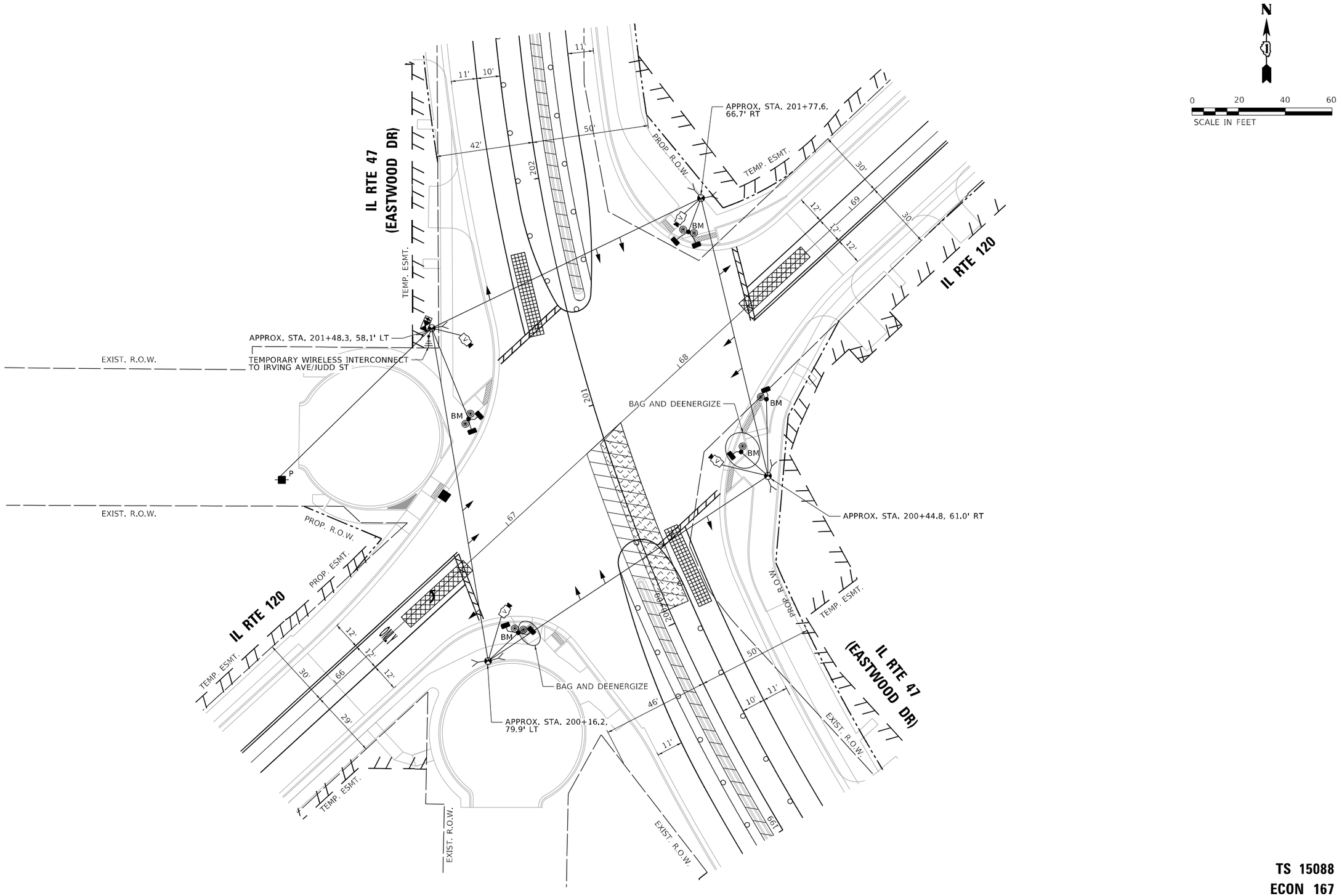
ATLAS TECHNICAL CONSULTANTS, LLC 100 S. WACKER DRIVE, SUITE 400 CHICAGO, IL 60606	USER NAME = nsalehian	DESIGNED - NS	REVISED -	STATE OF ILLINOIS DEPARTMENT OF TRANSPORTATION	TEMPORARY TRAFFIC SIGNAL INSTALLATION PLAN – STAGE 2B IL RTE 47 (EASTWOOD DR) AND IL RTE 120	F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS / SHEET NO.
		DRAWN - NS	REVISED -			326	2024-1052-N,C,SW,FL.	MCHENRY	941 / 807
	PLOT SCALE = 40.0000 ' / in.	CHECKED - TS	REVISED -					CONTRACT NO. 62X94	
	PLOT DATE = 2/6/2025	DATE - 02/06/2025	REVISED -		SCALE: SHEET OF SHEETS STA. TO STA.		ILLINOIS	FED. AID PROJECT	



TS SHT NO. 73

TS 15088
ECON 167

MODEL: Default
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ATLAS
ATLAS TECHNICAL CONSULTANTS, LLC
100 S. WACKER DRIVE, SUITE 400
CHICAGO, IL 60606

USER NAME = nsalehian	DESIGNED - NS	REVISED -	
	DRAWN - NS	REVISED -	
PLOT SCALE = 40.0000 ' / in.	CHECKED - TS	REVISED -	
PLOT DATE = 2/6/2025	DATE - 02/06/2025	REVISED -	

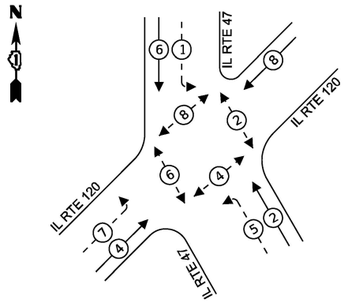
STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

TEMPORARY TRAFFIC SIGNAL INSTALLATION PLAN – STAGE 3
IL RTE 47 (EASTWOOD DR) AND IL RTE 120

SCALE: SHEET OF SHEETS STA. TO STA.

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
326	2024-1052-N,C,SW,FL.	MCHENRY	941	808
		CONTRACT NO. 62X94		
		ILLINOIS FED. AID PROJECT		

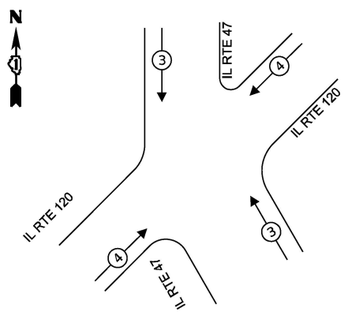
TEMPORARY CONTROLLER SEQUENCE (PRE STAGE A)

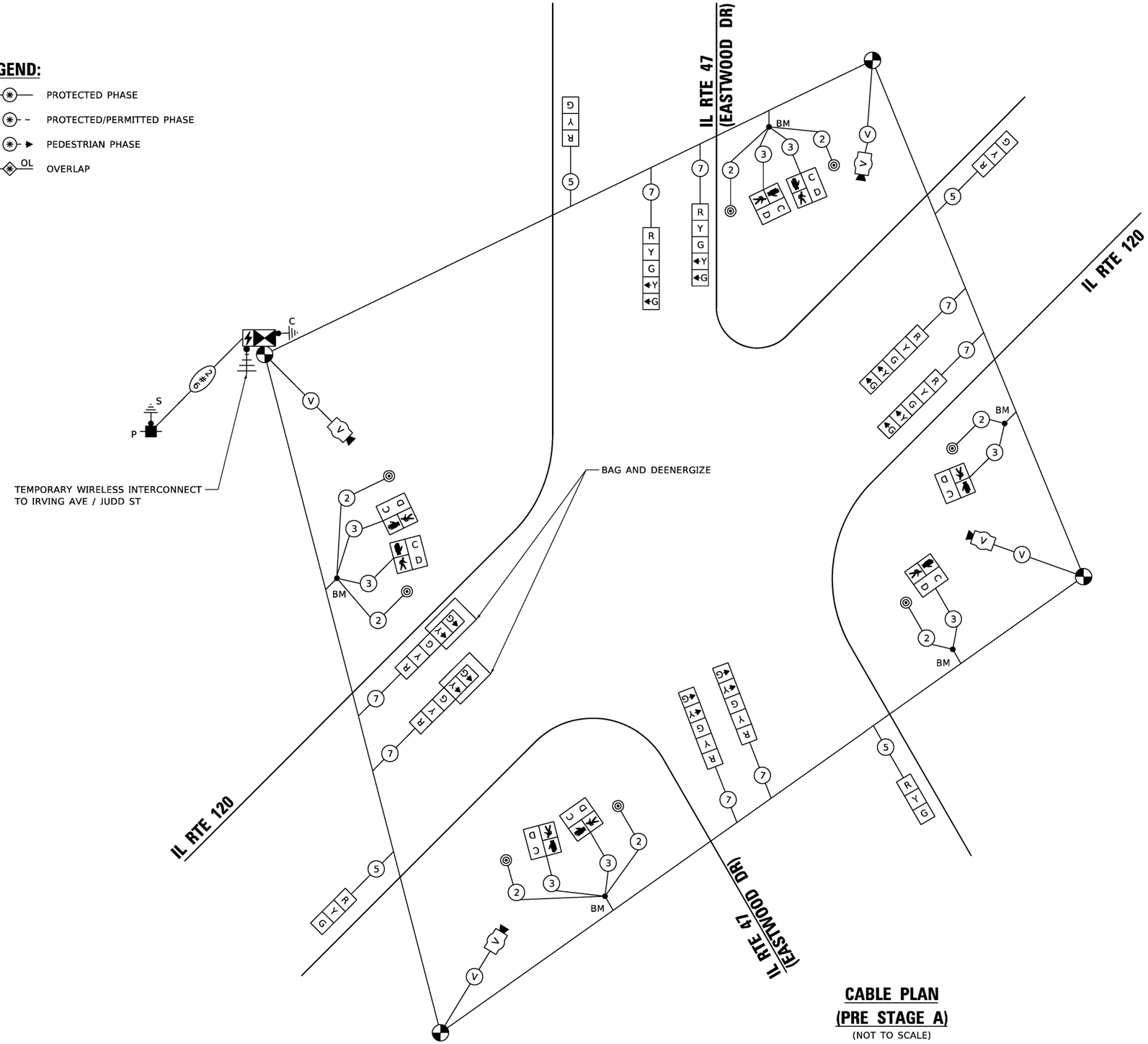


LEGEND:

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

TEMPORARY EMERGENCY VEHICLE PREEMPTION SEQUENCE (PRE STAGE A)





TRAFFIC SIGNAL ELECTRIC SERVICE REQUIREMENTS			
TYPE	QUANTITY	UNIT	TOTAL
SIGNAL HEAD 3 - SECTION	6	11	66
4 - SECTION		14	
5 - SECTION	6	13	78
PROGRAMMABLE SIGNAL HEAD			
3 - SECTION		22	
4 - SECTION		32	
5 - SECTION		28	
PED. SIGNAL	8	15	120
CONTROLLER	1	150	150
MASTER CONTROLLER		100	
UPS	1	25	25
DETECTION RADAR		20	
VIDEO	1	20	20
BLANK-OUT SIGN		25	
NETWORK SWITCH II OR III		35	
CELLULAR MODEM		15	
TOTAL UPS SIZING			459
UPS CHARGING	1	225	225
BATTERY HEATER MAT	1	180	180
CABINET HEATER	1	200	200
FLASHER	1	15	15
LED STREET NAME SIGN		120	
LUMINAIRE		240	
TOTAL SERVICE WIRE SIZING			1079

ENERGY COST TO:
CITY OF WOODSTOCK
121 W. CALHOUN STREET
WOODSTOCK, IL 60098
ENERGY SUPPLY:
CONTACT: COMED
PHONE: (630)424-5704
COMPANY: COMMONWEALTH EDISON
ACCOUNT NUMBER: 24730-86147

CABLE PLAN (PRE STAGE A)

(NOT TO SCALE)

TS SHT NO. 74

TS 15088
ECON 167

MODEL: Default
FILE NAME: pw:\\aecom-na-pw.bentley.com:AECOM_DS21_NA_2020\Documents\60632011-IL-47900-CAD910_CAD\03_SHEETS\Traffic Signal\IL-47_IL-120_temp-cable-1.dgn

ATLAS TECHNICAL CONSULTANTS, LLC
100 S. WACKER DRIVE, SUITE 400
CHICAGO, IL 60606

USER NAME = nsalehian	DESIGNED - NS	REVISED -	
	DRAWN - NS	REVISED -	
PLOT SCALE = 40.0000 ' / in.	CHECKED - TS	REVISED -	
PLOT DATE = 2/6/2025	DATE - 02/06/2025	REVISED -	

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

TEMPORARY CABLE PLAN, PHASE DESIGNATION DIAGRAM, AND EMERGENCY VEHICLE PREEMPTION SEQUENCE
IL RTE 47 (EASTWOOD DR) AND IL RTE 120

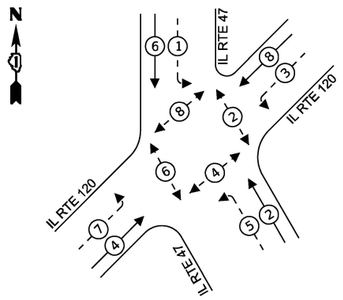
SCALE: SHEET OF SHEETS STA. TO STA.

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
326	2024-1052-N,C,SW,FL.	MCHENRY	941	809

CONTRACT NO. 62X94

ILLINOIS FED. AID PROJECT

TEMPORARY CONTROLLER SEQUENCE (PRE STAGE B)

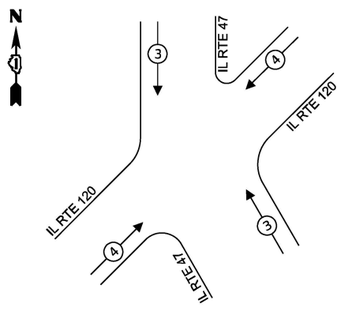


TEMPORARY CONTROLLER SEQUENCE (STAGE 3)

LEGEND:

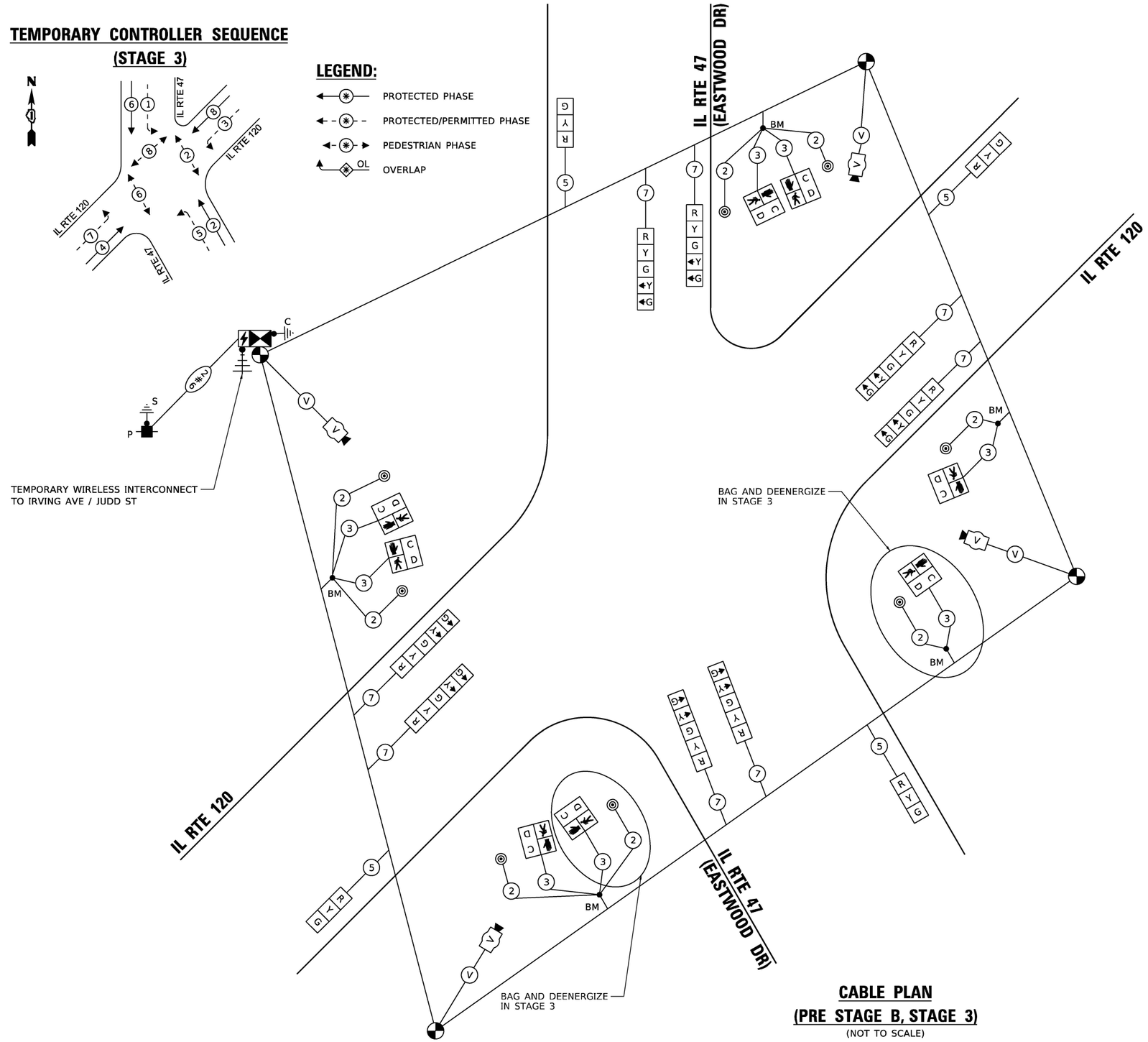
- PROTECTED PHASE
- PROTECTED/PERMITTED PHASE
- PEDESTRIAN PHASE
- OL OVERLAP

TEMPORARY EMERGENCY VEHICLE PREEMPTION SEQUENCE (PRE STAGE B, STAGE 3)



TRAFFIC SIGNAL ELECTRIC SERVICE REQUIREMENTS			
TYPE	QUANTITY	UNIT	TOTAL
SIGNAL HEAD 3 - SECTION	4	11	44
4 - SECTION		14	
5 - SECTION	8	13	104
PROGRAMMABLE SIGNAL HEAD			
3 - SECTION		22	
4 - SECTION		32	
5 - SECTION		28	
PED. SIGNAL	8	15	120
CONTROLLER	1	150	150
MASTER CONTROLLER		100	
UPS	1	25	25
DETECTION RADAR		20	
VIDEO	1	20	20
BLANK-OUT SIGN		25	
NETWORK SWITCH II OR III		35	
CELLULAR MODEM		15	
TOTAL UPS SIZING			463
UPS CHARGING	1	225	225
BATTERY HEATER MAT	1	180	180
CABINET HEATER	1	200	200
FLASHER	1	15	15
LED STREET NAME SIGN		120	
LUMINAIRE		240	
TOTAL SERVICE WIRE SIZING			1083

ENERGY COST TO:
CITY OF WOODSTOCK
121 W. CALHOUN STREET
WOODSTOCK, IL 60098
ENERGY SUPPLY:
CONTACT: COMED
PHONE: (630)424-5704
COMPANY: COMMONWEALTH EDISON
ACCOUNT NUMBER: 24730-86147



CABLE PLAN (PRE STAGE B, STAGE 3)

(NOT TO SCALE)

TS SHT NO. 75

TS 15088
ECON 167

MODEL: Default
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ATLAS TECHNICAL CONSULTANTS, LLC
100 S. WACKER DRIVE, SUITE 400
CHICAGO, IL 60606

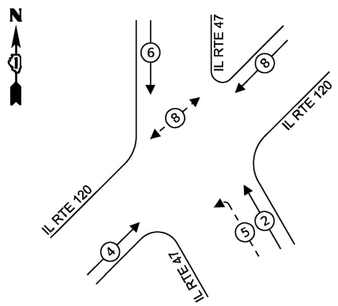
USER NAME = nsalehian	DESIGNED - NS	REVISED -	STATE OF ILLINOIS DEPARTMENT OF TRANSPORTATION
	DRAWN - NS	REVISED -	
PLOT SCALE = 40.0000 ' / in.	CHECKED - TS	REVISED -	
PLOT DATE = 2/6/2025	DATE - 02/06/2025	REVISED -	

TEMPORARY CABLE PLAN, PHASE DESIGNATION DIAGRAM, AND EMERGENCY VEHICLE PREEMPTION SEQUENCE
IL RTE 47 (EASTWOOD DR) AND IL RTE 120

SCALE: SHEET OF SHEETS STA. TO STA.

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
326	2024-1052-N,C,SW,FL.	MCHENRY	941	810
		CONTRACT NO. 62X94		
		ILLINOIS FED. AID PROJECT		

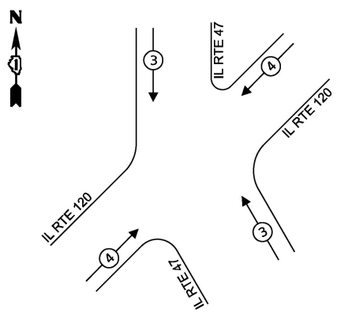
TEMPORARY CONTROLLER SEQUENCE (STAGE 1A)

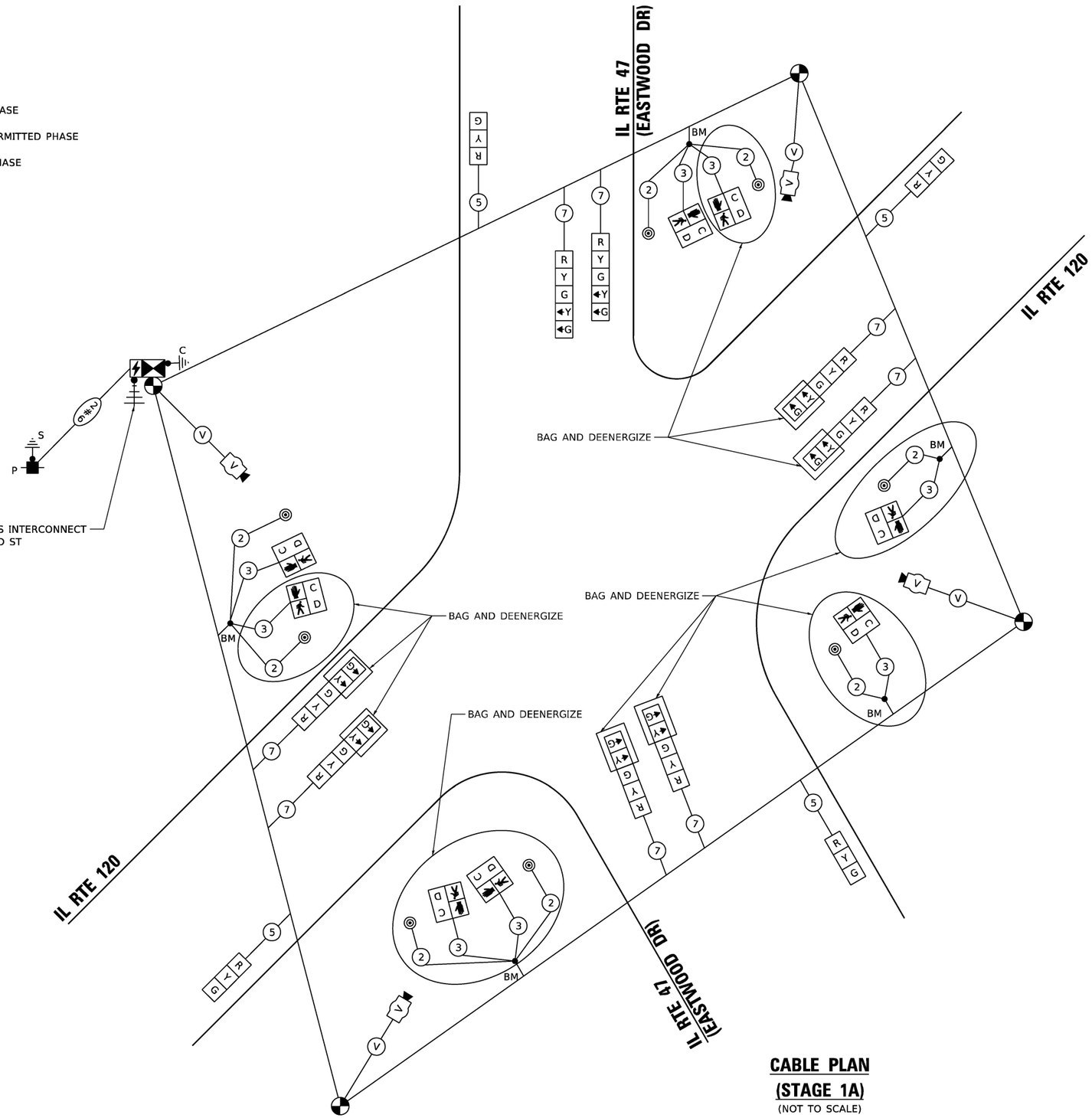


LEGEND:

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

TEMPORARY EMERGENCY VEHICLE PREEMPTION SEQUENCE (STAGE 1A)





CABLE PLAN (STAGE 1A)

(NOT TO SCALE)

TRAFFIC SIGNAL ELECTRIC SERVICE REQUIREMENTS			
TYPE	QUANTITY	UNIT	TOTAL
SIGNAL HEAD 3 - SECTION	10	11	110
4 - SECTION		14	
5 - SECTION	2	13	26
PROGRAMMABLE SIGNAL HEAD			
3 - SECTION		22	
4 - SECTION		32	
5 - SECTION		28	
PED. SIGNAL	2	15	30
CONTROLLER	1	150	150
MASTER CONTROLLER		100	
UPS	1	25	25
DETECTION RADAR		20	
VIDEO	1	20	20
BLANK-OUT SIGN		25	
NETWORK SWITCH II OR III		35	
CELLULAR MODEM		15	
TOTAL UPS SIZING			361
UPS CHARGING	1	225	225
BATTERY HEATER MAT	1	180	180
CABINET HEATER	1	200	200
FLASHER	1	15	15
LED STREET NAME SIGN		120	
LUMINAIRE		240	
TOTAL SERVICE WIRE SIZING			981

ENERGY COST TO:
CITY OF WOODSTOCK
121 W. CALHOUN STREET
WOODSTOCK, IL 60098
ENERGY SUPPLY:
CONTACT: COMED
PHONE: (630)424-5704
COMPANY: COMMONWEALTH EDISON
ACCOUNT NUMBER: 24730-86147

TS SHT NO. 76

TS 15088
ECON 167

MODEL: Default
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ATLAS TECHNICAL CONSULTANTS, LLC
100 S. WACKER DRIVE, SUITE 400
CHICAGO, IL 60606

USER NAME = nsalehian	DESIGNED - NS	REVISED -	
	DRAWN - NS	REVISED -	
PLOT SCALE = 40.0000 ' / in.	CHECKED - TS	REVISED -	
PLOT DATE = 2/6/2025	DATE - 02/06/2025	REVISED -	

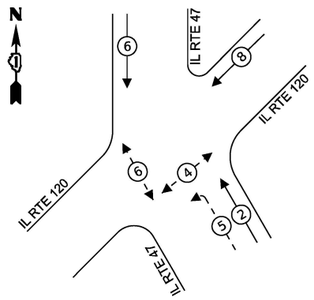
STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

TEMPORARY CABLE PLAN, PHASE DESIGNATION DIAGRAM, AND EMERGENCY VEHICLE PREEMPTION SEQUENCE
IL RTE 47 (EASTWOOD DR) AND IL RTE 120

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

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
326	2024-1052-N,C,SW,FL.	MCHENRY	941	811
		CONTRACT NO. 62X94		
		ILLINOIS FED. AID PROJECT		

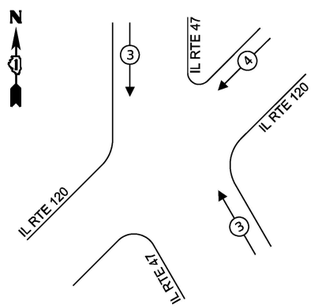
TEMPORARY CONTROLLER SEQUENCE (STAGE 1B & 1C)



LEGEND:

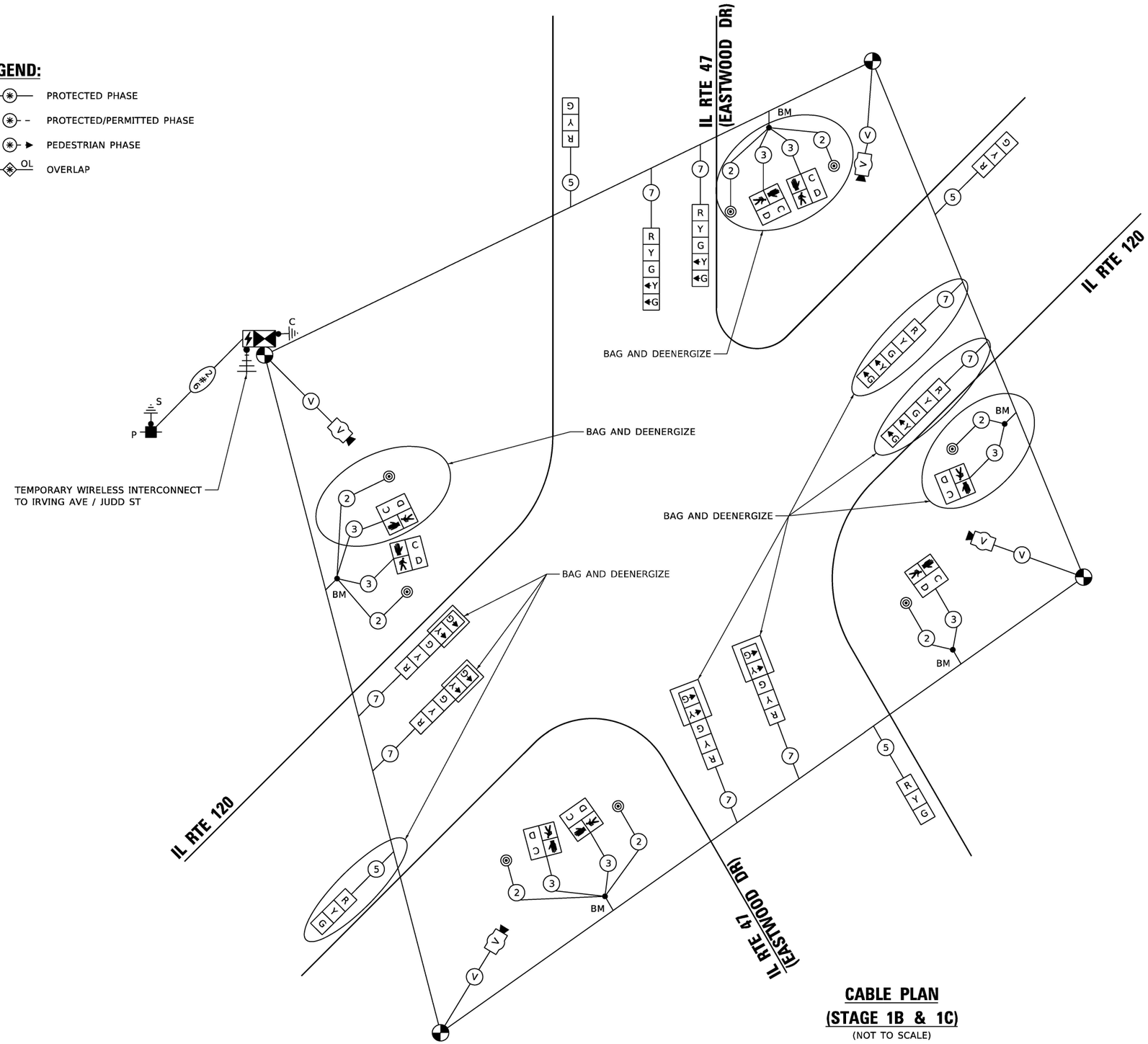
- PROTECTED PHASE
- PROTECTED/PERMITTED PHASE
- PEDESTRIAN PHASE
- OL OVERLAP

TEMPORARY EMERGENCY VEHICLE PREEMPTION SEQUENCE (STAGE 1B & 1C)



TRAFFIC SIGNAL ELECTRIC SERVICE REQUIREMENTS			
TYPE	QUANTITY	UNIT	TOTAL
SIGNAL HEAD 3 - SECTION	7	11	77
4 - SECTION		14	
5 - SECTION	2	13	26
PROGRAMMABLE SIGNAL HEAD			
3 - SECTION		22	
4 - SECTION		32	
5 - SECTION		28	
PED. SIGNAL	4	15	60
CONTROLLER	1	150	150
MASTER CONTROLLER		100	
UPS	1	25	25
DETECTION RADAR		20	
VIDEO	1	20	20
BLANK-OUT SIGN		25	
NETWORK SWITCH II OR III		35	
CELLULAR MODEM		15	
TOTAL UPS SIZING			358
UPS CHARGING	1	225	225
BATTERY HEATER MAT	1	180	180
CABINET HEATER	1	200	200
FLASHER	1	15	15
LED STREET NAME SIGN		120	
LUMINAIRE		240	
TOTAL SERVICE WIRE SIZING			978

ENERGY COST TO:
CITY OF WOODSTOCK
121 W. CALHOUN STREET
WOODSTOCK, IL 60098
ENERGY SUPPLY:
CONTACT: COMED
PHONE: (630)424-5704
COMPANY: COMMONWEALTH EDISON
ACCOUNT NUMBER: 24730-86147



CABLE PLAN (STAGE 1B & 1C)

(NOT TO SCALE)

TS SHT NO. 77

TS 15088
ECON 167

MODEL: Default
FILE NAME: pw:\\becom-na-pw.bentley.com:AECOM DS21 NA 2020\Documents\60632011-IL-47\900-CAD\910 CAD\03 SHEETS\Traffic Signal\IL-47 IL-120 temp-cable-4.dgn

ATLAS TECHNICAL CONSULTANTS, LLC
100 S. WACKER DRIVE, SUITE 400
CHICAGO, IL 60606

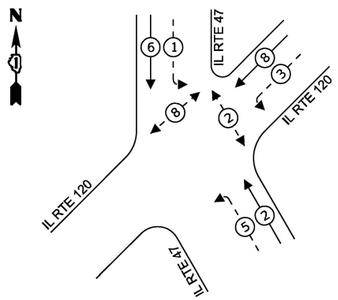
USER NAME = nsalehian	DESIGNED - NS	REVISED -	STATE OF ILLINOIS DEPARTMENT OF TRANSPORTATION
	DRAWN - NS	REVISED -	
PLOT SCALE = 40.0000 ' / in.	CHECKED - TS	REVISED -	
PLOT DATE = 2/6/2025	DATE - 02/06/2025	REVISED -	

TEMPORARY CABLE PLAN, PHASE DESIGNATION DIAGRAM, AND EMERGENCY VEHICLE PREEMPTION SEQUENCE
IL RTE 47 (EASTWOOD DR) AND IL RTE 120

SCALE: SHEET OF SHEETS STA. TO STA.

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
326	2024-1052-N,C,SW,FL.	MCHENRY	941	812
		CONTRACT NO. 62X94		
		ILLINOIS FED. AID PROJECT		

TEMPORARY CONTROLLER SEQUENCE (STAGE 2A)

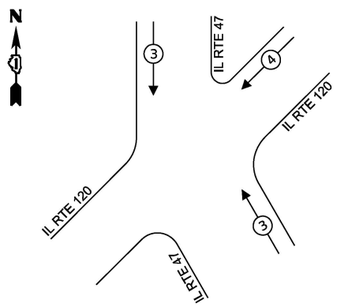


TEMPORARY CONTROLLER SEQUENCE (STAGE 2B)

LEGEND:

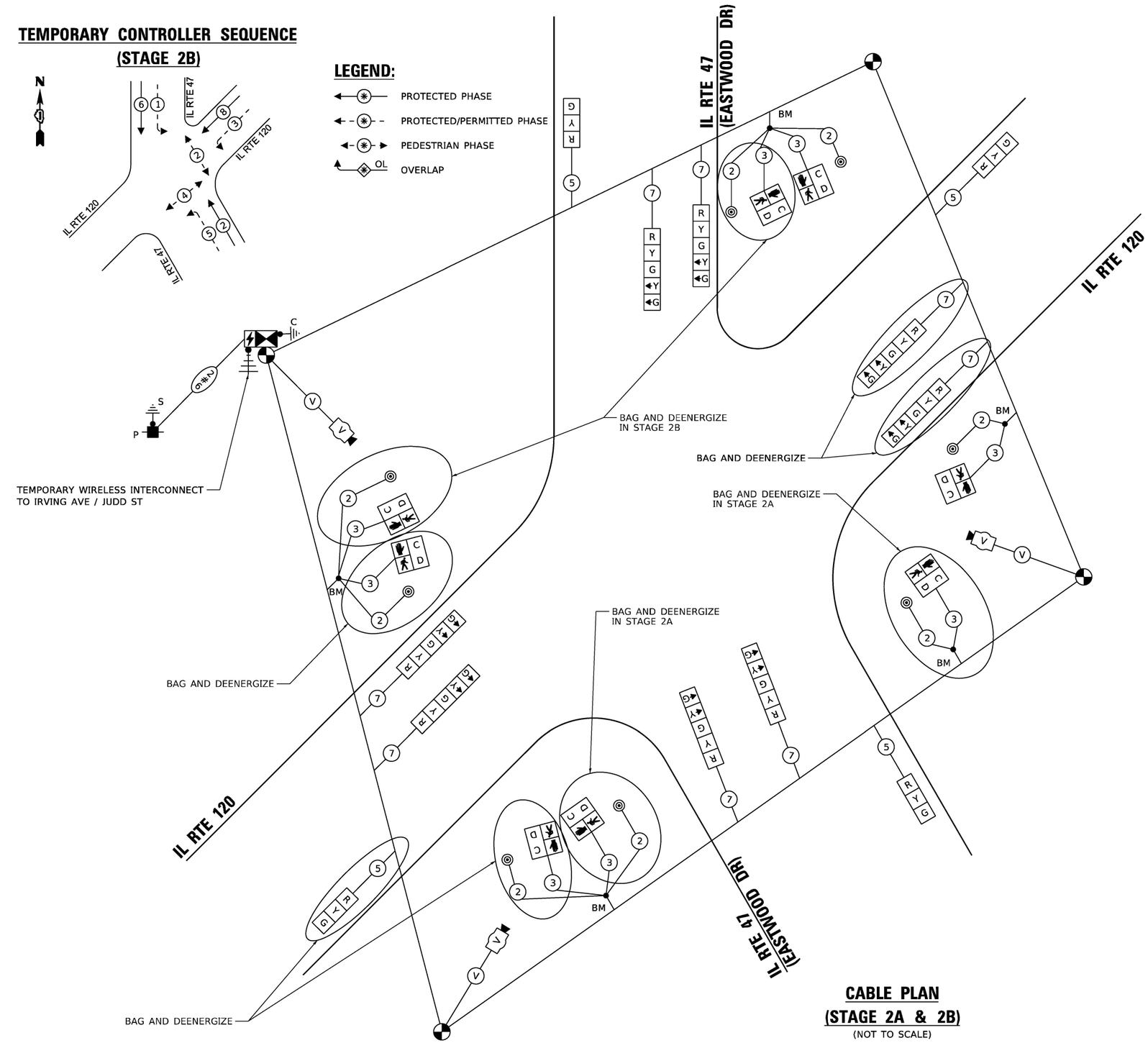
- PROTECTED PHASE
- PROTECTED/PERMITTED PHASE
- PEDESTRIAN PHASE
- OVERLAP

TEMPORARY EMERGENCY VEHICLE PREEMPTION SEQUENCE (STAGE 2A & 2B)



TRAFFIC SIGNAL ELECTRIC SERVICE REQUIREMENTS			
TYPE	QUANTITY	UNIT	TOTAL
SIGNAL HEAD 3 - SECTION	3	11	33
4 - SECTION		14	
5 - SECTION	6	13	78
PROGRAMMABLE SIGNAL HEAD			
3 - SECTION		22	
4 - SECTION		32	
5 - SECTION		28	
PED. SIGNAL	4	15	60
CONTROLLER	1	150	150
MASTER CONTROLLER		100	
UPS	1	25	25
DETECTION RADAR		20	
VIDEO	1	20	20
BLANK-OUT SIGN		25	
NETWORK SWITCH II OR III		35	
CELLULAR MODEM		15	
TOTAL UPS SIZING			366
UPS CHARGING	1	225	225
BATTERY HEATER MAT	1	180	180
CABINET HEATER	1	200	200
FLASHER	1	15	15
LED STREET NAME SIGN		120	
LUMINAIRE		240	
TOTAL SERVICE WIRE SIZING			986

ENERGY COST TO:
CITY OF WOODSTOCK
121 W. CALHOUN STREET
WOODSTOCK, IL 60098
ENERGY SUPPLY:
CONTACT: COMED
PHONE: (630)424-5704
COMPANY: COMMONWEALTH EDISON
ACCOUNT NUMBER: 24730-86147



CABLE PLAN (STAGE 2A & 2B)

(NOT TO SCALE)

TS SHT NO. 78

TS 15088
ECON 167

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ATLAS TECHNICAL CONSULTANTS, LLC
100 S. WACKER DRIVE, SUITE 400
CHICAGO, IL 60606

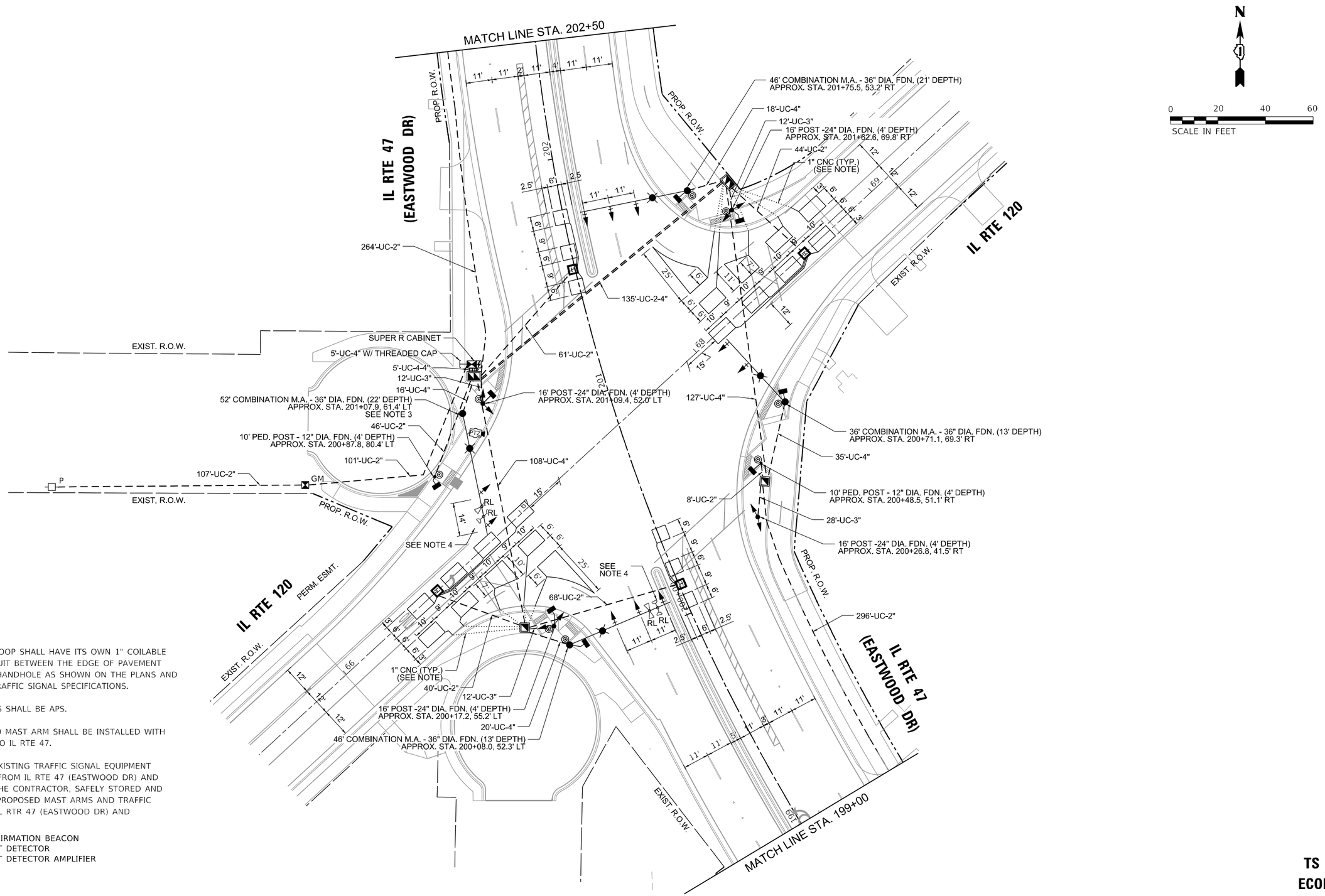
USER NAME = nsalehian	DESIGNED - NS	REVISED -	
	DRAWN - NS	REVISED -	
PLOT SCALE = 40.0000 ' / in.	CHECKED - TS	REVISED -	
PLOT DATE = 2/6/2025	DATE - 02/06/2025	REVISED -	

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

TEMPORARY CABLE PLAN, PHASE DESIGNATION DIAGRAM, AND EMERGENCY VEHICLE PREEMPTION SEQUENCE
IL RTE 47 (EASTWOOD DR) AND IL RTE 120

SCALE: SHEET OF SHEETS STA. TO STA.

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
326	2024-1052-N,C,SW,FL.	MCHENRY	941	813
		CONTRACT NO. 62X94		
		ILLINOIS FED. AID PROJECT		



NOTES

1. 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.

2. ALL PUSH-BUTTONS SHALL BE APS.

3. THE WB IL RTE 120 MAST ARM SHALL BE INSTALLED WITH THE ARM PARALLEL TO IL RTE 47.

4. THE FOLLOWING EXISTING TRAFFIC SIGNAL EQUIPMENT SHALL BE REMOVED FROM IL RTE 47 (EASTWOOD DR) AND IRVING/JUDD ST BY THE CONTRACTOR, SAFELY STORED AND RELOCATED TO THE PROPOSED MAST ARMS AND TRAFFIC SIGNAL CABINET AT IL RTR 47 (EASTWOOD DR) AND IL RTE 120:

3	EACH	CONFIRMATION BEACON
3	EACH	LIGHT DETECTOR
1	EACH	LIGHT DETECTOR AMPLIFIER

TS SHT NO. 79

TS 15088
ECON 167

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ATLAS
ATLAS TECHNICAL CONSULTANTS, LLC
100 S. WACKER DRIVE, SUITE 400
CHICAGO, IL 60606

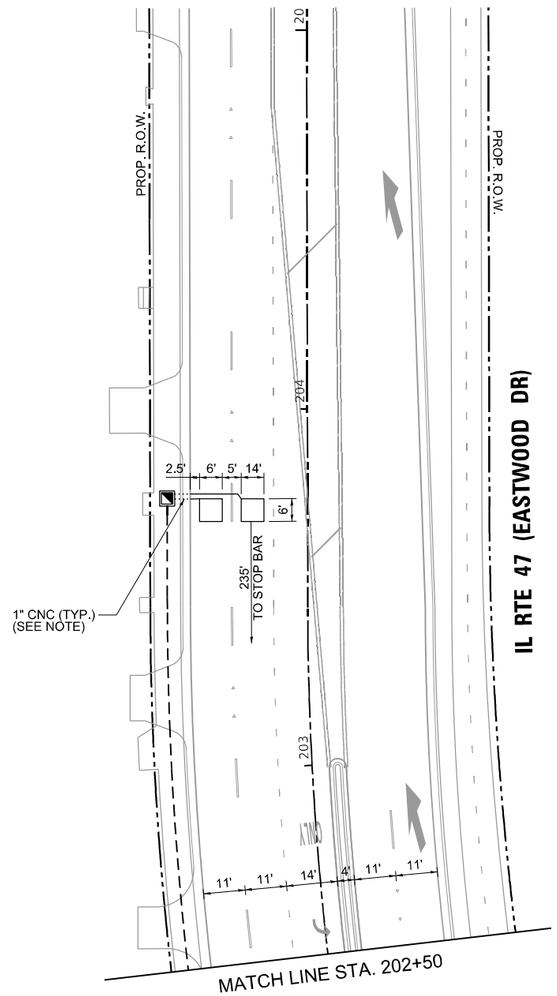
USER NAME = nsalehian	DESIGNED - NS	REVISED -	
	DRAWN - NS	REVISED -	
PLOT SCALE = 40.0000 ' / in.	CHECKED - TS	REVISED -	
PLOT DATE = 2/6/2025	DATE - 02/06/2025	REVISED -	

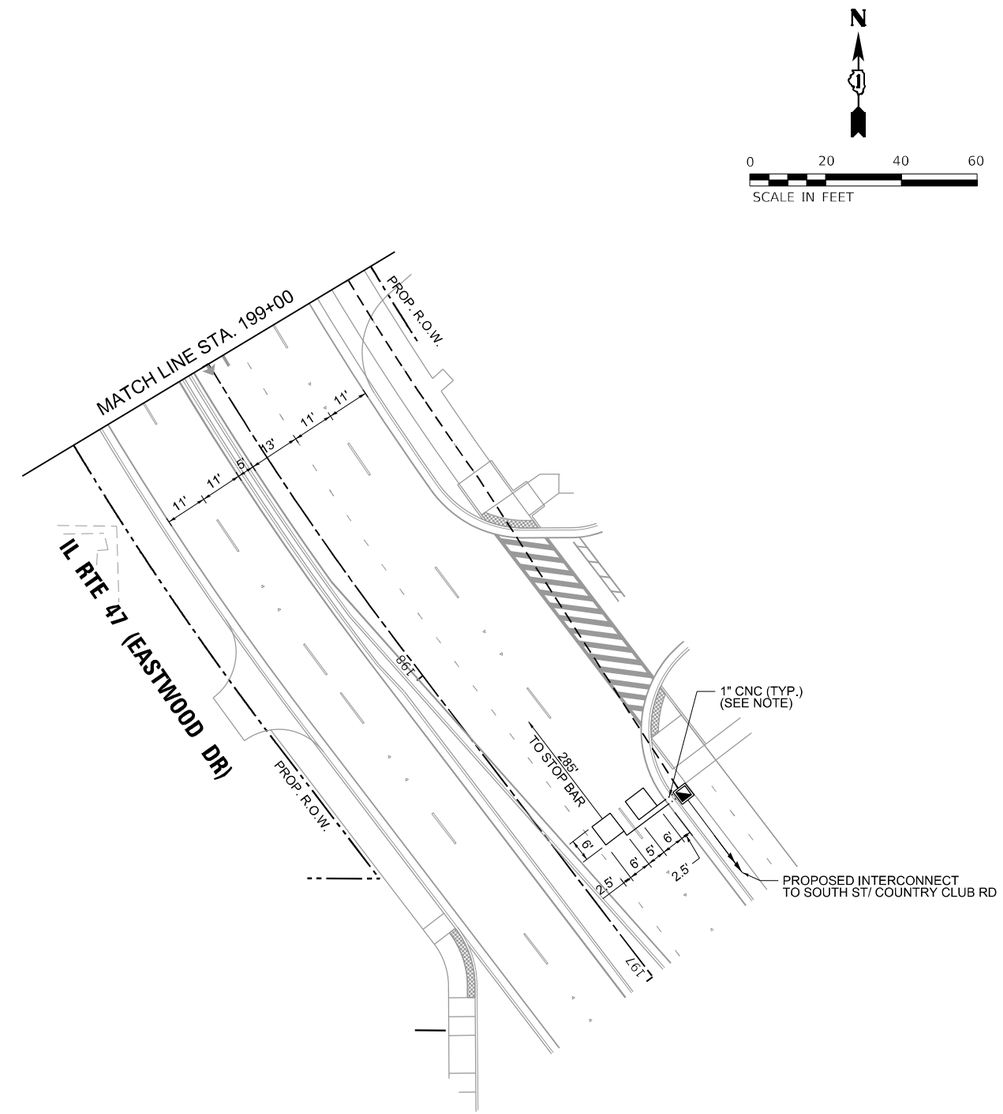
STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

TRAFFIC SIGNAL MODERNIZATION PLAN
IL RTE 47 (EASTWOOD DR) AND ILLINOIS 120 (SHEET 1 OF 2)

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

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
326	2024-1052-N,C,SW,FL.	MCHENRY	941	814
		CONTRACT NO. 62X94		
		ILLINOIS FED. AID PROJECT		





NOTES

1. 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 SHT NO. 80

TS 15088

ECON 167

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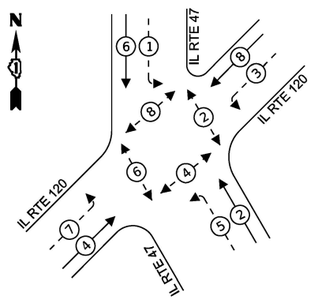
ATLAS TECHNICAL CONSULTANTS, LLC 100 S. WACKER DRIVE, SUITE 400 CHICAGO, IL 60606	USER NAME = nsalehian	DESIGNED - NS	REVISED -	STATE OF ILLINOIS DEPARTMENT OF TRANSPORTATION	TRAFFIC SIGNAL MODERNIZATION PLAN IL RTE 47 (EASTWOOD DR) AND ILLINOIS 120 (SHEET 2 OF 2)	F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS / SHEET NO.
		DRAWN - NS	REVISED -			326	2024-1052-N.C.SW.FL.	MCHENRY	941 / 815
	PLOT SCALE = 40.0000 ' / in.	CHECKED - TS	REVISED -					CONTRACT NO. 62X94	
	PLOT DATE = 2/6/2025	DATE - 02/06/2025	REVISED -		SCALE: SHEET OF SHEETS STA. TO STA.		ILLINOIS	FED. AID PROJECT	

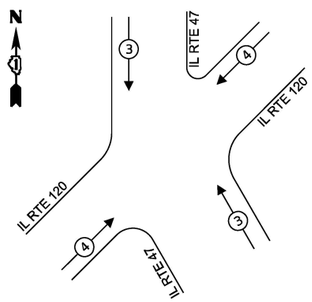
PROPOSED CONTROLLER SEQUENCE



LEGEND:

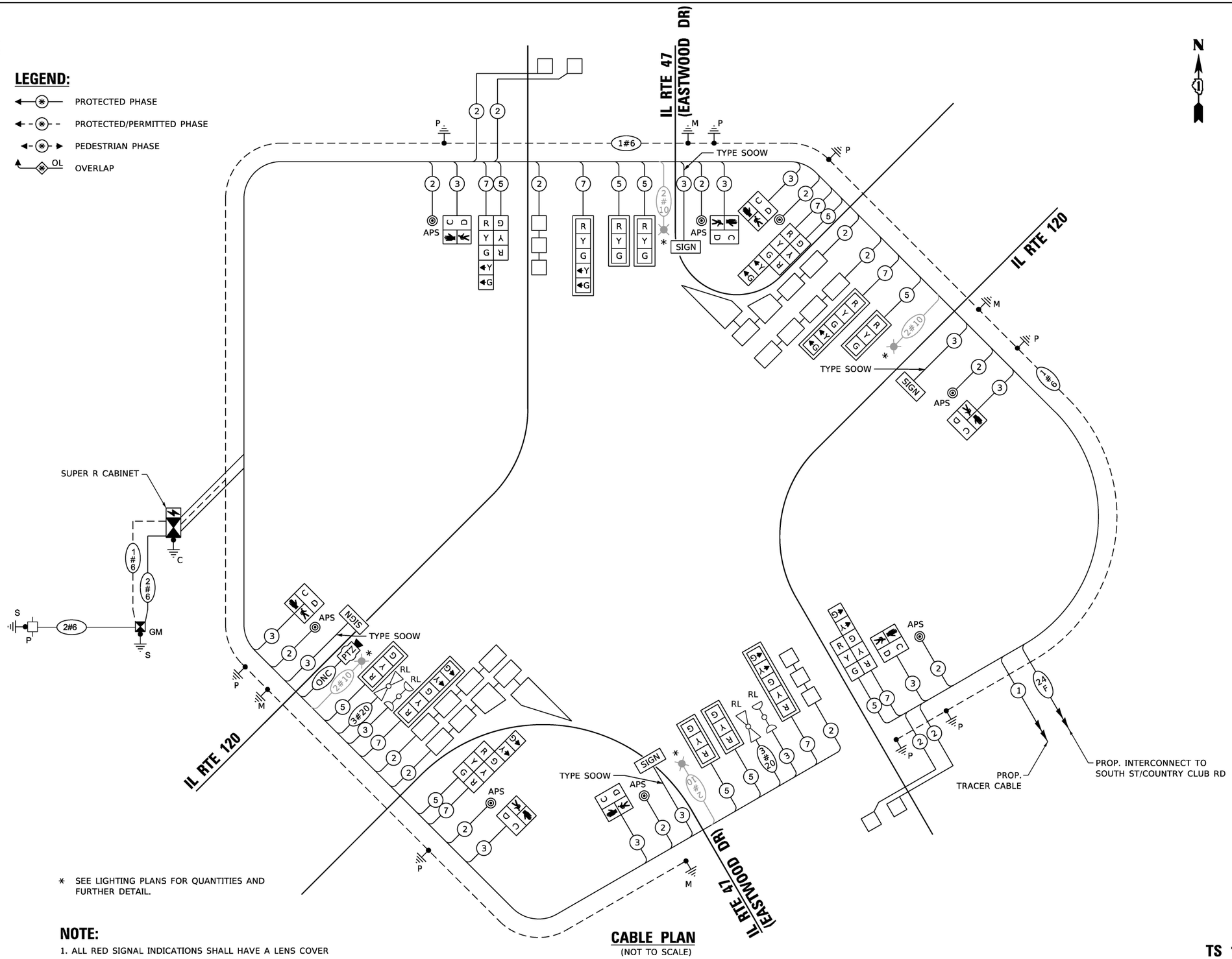
- PROTECTED PHASE
- PROTECTED/PERMITTED PHASE
- PEDESTRIAN PHASE
- OL OVERLAP

PROPOSED EMERGENCY VEHICLE PREEMPTION SEQUENCE



TRAFFIC SIGNAL ELECTRIC SERVICE REQUIREMENTS			
TYPE	QUANTITY	UNIT	TOTAL
SIGNAL HEAD 3 - SECTION	10	11	110
4 - SECTION		14	
5 - SECTION	8	13	104
PROGRAMMABLE SIGNAL HEAD			
3 - SECTION		22	
4 - SECTION		32	
5 - SECTION		28	
PED. SIGNAL	8	15	120
CONTROLLER	1	150	150
MASTER CONTROLLER		100	
UPS	1	25	25
DETECTION RADAR		20	
VIDEO		20	
BLANK-OUT SIGN		25	
NETWORK SWITCH II OR III	1	35	
CELLULAR MODEM		15	
TOTAL UPS SIZING			509
UPS CHARGING	1	225	225
BATTERY HEATER MAT	1	180	180
CABINET HEATER	1	200	200
FLASHER	1	15	15
LED STREET NAME SIGN	4	120	480
LUMINAIRE	4	240	960
TOTAL SERVICE WIRE SIZING			2569

ENERGY COST TO:
CITY OF WOODSTOCK
121 W. CALHOUN STREET
WOODSTOCK, IL 60098
ENERGY SUPPLY:
CONTACT: COMED
PHONE: (630)424-5704
COMPANY: COMMONWEALTH EDISON
ACCOUNT NUMBER: 24730-86147



* SEE LIGHTING PLANS FOR QUANTITIES AND FURTHER DETAIL.

NOTE:

1. ALL RED SIGNAL INDICATIONS SHALL HAVE A LENS COVER

CABLE PLAN
(NOT TO SCALE)

TS SHT NO. 81

TS 15088
ECON 167

MODEL: Default
FILE NAME: pw:\\becom-na-pw.bentley.com:AECOM DS2 NA 2020\Documents\60632011-IL-47\900-CAD\910 CAD\03 SHEETS\Traffic Signal\IL-47 IL-120 cable.dgn

ATLAS TECHNICAL CONSULTANTS, LLC
100 S. WACKER DRIVE, SUITE 400
CHICAGO, IL 60606

USER NAME = nsalehian	DESIGNED - NS	REVISED -
	DRAWN - NS	REVISED -
PLOT SCALE = 40.0000 ' / in.	CHECKED - TS	REVISED -
PLOT DATE = 2/6/2025	DATE - 02/06/2025	REVISED -

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

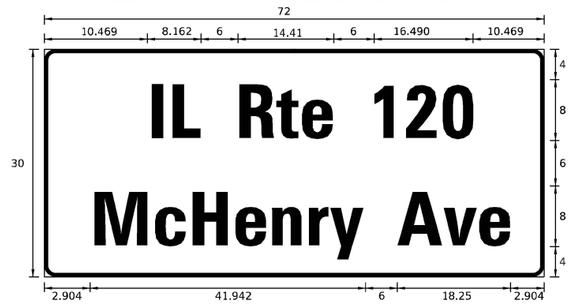
CABLE PLAN, PHASE DESIGNATION DIAGRAM, AND EMERGENCY VEHICLE PREEMPTION SEQUENCE
IL RTE 47 (EASTWOOD DR) AND IL RTE 120

SCALE: SHEET OF SHEETS STA. TO STA.

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
326	2024-1052-N,C,SW,FL.	MCHENRY	941	816
		CONTRACT NO. 62X94		
		ILLINOIS	FED. AID PROJECT	

LED INTERNALLY ILLUMINATED STREET NAME SIGN

ALL DIMENSIONS ARE IN INCHES UNLESS NOTED OTHERWISE



DESIGN SERIES	AREA (SQ FT)	SIGN PANEL TYPE	SHEETING TYPE	QTY REQUIRED
D	15	2	ZZ	2

DESIGN SERIES	AREA (SQ FT)	SIGN PANEL TYPE	SHEETING TYPE	QTY REQUIRED
C	21.25	2	ZZ	1

DESIGN SERIES	AREA (SQ FT)	SIGN PANEL TYPE	SHEETING TYPE	QTY REQUIRED
C	21.25	2	ZZ	1

FOR ADDITIONAL DESIGN AND INSTALLATION INFORMATION PLEASE SEE DISTRICT ONE MAST ARM MOUNTED STREET NAME SIGNS DETAIL.

SCHEDULE OF QUANTITIES

ITEM DESCRIPTION	UNIT	TOTAL QTY
UNDERGROUND CONDUIT, GALVANIZED STEEL, 2" DIA.	FOOT	1035
UNDERGROUND CONDUIT, GALVANIZED STEEL, 3" DIA.	FOOT	58
UNDERGROUND CONDUIT, GALVANIZED STEEL, 4" DIA.	FOOT	619
HANDHOLE	EACH	4
HEAVY-DUTY HANDHOLE	EACH	4
DOUBLE HANDHOLE	EACH	2
PAINT NEW TRAFFIC SIGNAL POST	EACH	4
PAINT NEW COMBINATION MAST ARM AND POLE, UNDER 40 FOOT	EACH	1
PAINT NEW COMBINATION MAST ARM AND POLE, 40 FOOT AND OVER	EACH	3
ELECTRIC CABLE IN CONDUIT, SIGNAL NO. 14 2C	FOOT	1501
ELECTRIC CABLE IN CONDUIT, SIGNAL NO. 14 3C	FOOT	1851
ELECTRIC CABLE IN CONDUIT, SIGNAL NO. 14 5C	FOOT	2040
ELECTRIC CABLE IN CONDUIT, SIGNAL NO. 14 7C	FOOT	1680
ELECTRIC CABLE IN CONDUIT, LEAD-IN, NO. 14 1 PAIR	FOOT	2809
ELECTRIC CABLE IN CONDUIT, SERVICE, NO. 6 2 C	FOOT	241
ELECTRIC CABLE IN CONDUIT, EQUIPMENT GROUNDING CONDUCTOR, NO. 6 1C	FOOT	1590
TRAFFIC SIGNAL POST, GALVANIZED STEEL 16 FT.	EACH	4
STEEL COMBINATION MAST ARM ASSEMBLY AND POLE 36 FT.	EACH	1
STEEL COMBINATION MAST ARM ASSEMBLY AND POLE 46 FT.	EACH	2
STEEL COMBINATION MAST ARM ASSEMBLY AND POLE 52 FT.	EACH	1
CONCRETE FOUNDATION, TYPE A	FOOT	20
CONCRETE FOUNDATION, TYPE C	FOOT	4
CONCRETE FOUNDATION, TYPE E 36-INCH DIAMETER	FOOT	69
SIGNAL HEAD, LED, 1-FACE, 3-SECTION, MAST-ARM MOUNTED	EACH	6
SIGNAL HEAD, LED, 1-FACE, 3-SECTION, BRACKET MOUNTED	EACH	4
SIGNAL HEAD, LED, 1-FACE, 5-SECTION, BRACKET MOUNTED	EACH	4
SIGNAL HEAD, LED, 1-FACE, 5-SECTION, MAST-ARM MOUNTED	EACH	4
PEDESTRIAN SIGNAL HEAD, LED, 1-FACE, BRACKET MOUNTED WITH COUNTDOWN TIMER	EACH	8
TRAFFIC SIGNAL BACKPLATE	EACH	10
INDUCTIVE LOOP DETECTOR	EACH	10
DETECTOR LOOP, TYPE I	FOOT	1484
TEMPORARY TRAFFIC SIGNAL INSTALLATION	EACH	1
REMOVE EXISTING TRAFFIC SIGNAL EQUIPMENT	EACH	1
REMOVE EXISTING HANDHOLE	EACH	11
REMOVE EXISTING DOUBLE HANDHOLE	EACH	1
REMOVE EXISTING CONCRETE FOUNDATION	EACH	11
EMERGENCY VEHICLE PRIORITY SYSTEM LINE SENSOR CABLE, NO. 20 3/C	FOOT	325
LED INTERNALLY ILLUMINATED STREET NAME SIGN	EACH	4
OUTDOOR RATED NETWORK CABLE	FOOT	79
FULL-ACTUATED CONTROLLER AND TYPE SUPER R CABINET (SPECIAL)	EACH	1
SERVICE INSTALLATION, GROUND MOUNTED, METERED	EACH	1
REMOTE CONTROLLED VIDEO SYSTEM	EACH	1
TERMINATE FIBER IN CABINET	EACH	12
SPLICE FIBER IN CABINET	EACH	6
PEDESTRIAN SIGNAL POST, 10 FT.	EACH	2
LAYER II (DATALINK) SWITCH	EACH	1
ELECTRIC CABLE IN CONDUIT, STREET NAME SIGN, NO. 14 3C, TYPE SOOW	FOOT	841
PAINT NEW PEDESTRIAN PUSH-BUTTON POST	EACH	2
UNINTERRUPTABLE POWER SUPPLY (SPECIAL)	EACH	1
ACCESSIBLE PEDESTRIAN SIGNALS	EACH	8
CONCRETE FOUNDATION, TYPE A 12-INCH DIAMETER	FOOT	8
LED SIGNAL FACE, LENS COVER	EACH	18
TEMPORARY TRAFFIC SIGNAL TIMING	EACH	1

TS SHT NO. 82

TS 15088

ECON 167

MODEL: Default
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ATLAS
ATLAS TECHNICAL CONSULTANTS, LLC
100 S. WACKER DRIVE, SUITE 400
CHICAGO, IL 60606

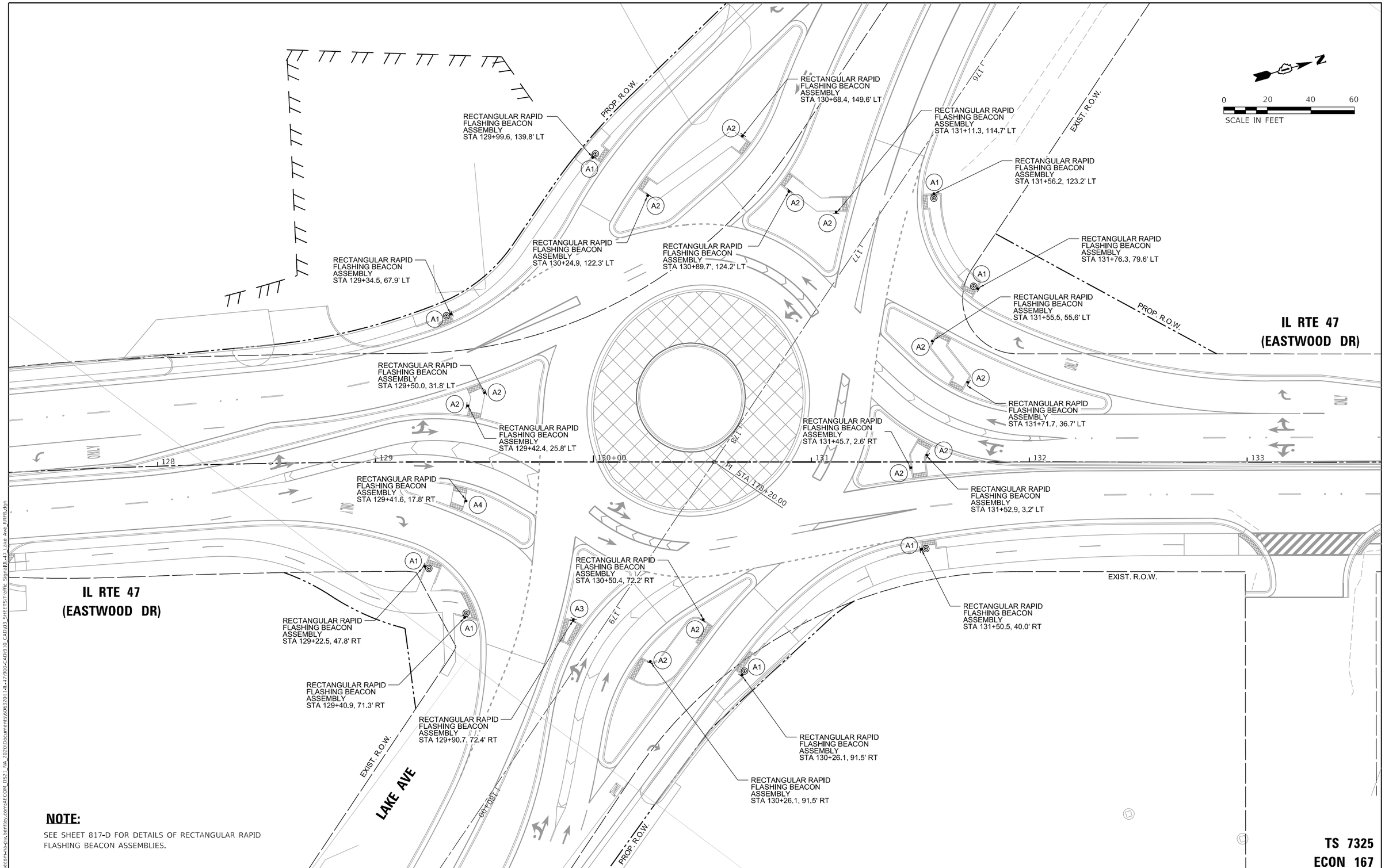
USER NAME = nsalehian	DESIGNED - NS	REVISED -	
	DRAWN - NS	REVISED -	
PLOT SCALE = 40.0000 ' / in.	CHECKED - TS	REVISED -	
PLOT DATE = 3/13/2025	DATE - 03/07/2025	REVISED -	

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

MAST ARM MOUNTED STREET NAME SIGNS
AND SCHEDULE OF QUANTITIES
IL RTE 47 (EASTWOOD DR) AND IL RTE 120

SCALE: SHEET OF SHEETS STA. TO STA.

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
326	2024-1052-N,C,SW,FL.	MCHENRY	941	817
		CONTRACT NO. 62X94		
		ILLINOIS FED. AID PROJECT		



NOTE:

SEE SHEET 817-D FOR DETAILS OF RECTANGULAR RAPID FLASHING BEACON ASSEMBLIES.

TS SHT NO. 83

TS 7325

ECON 167

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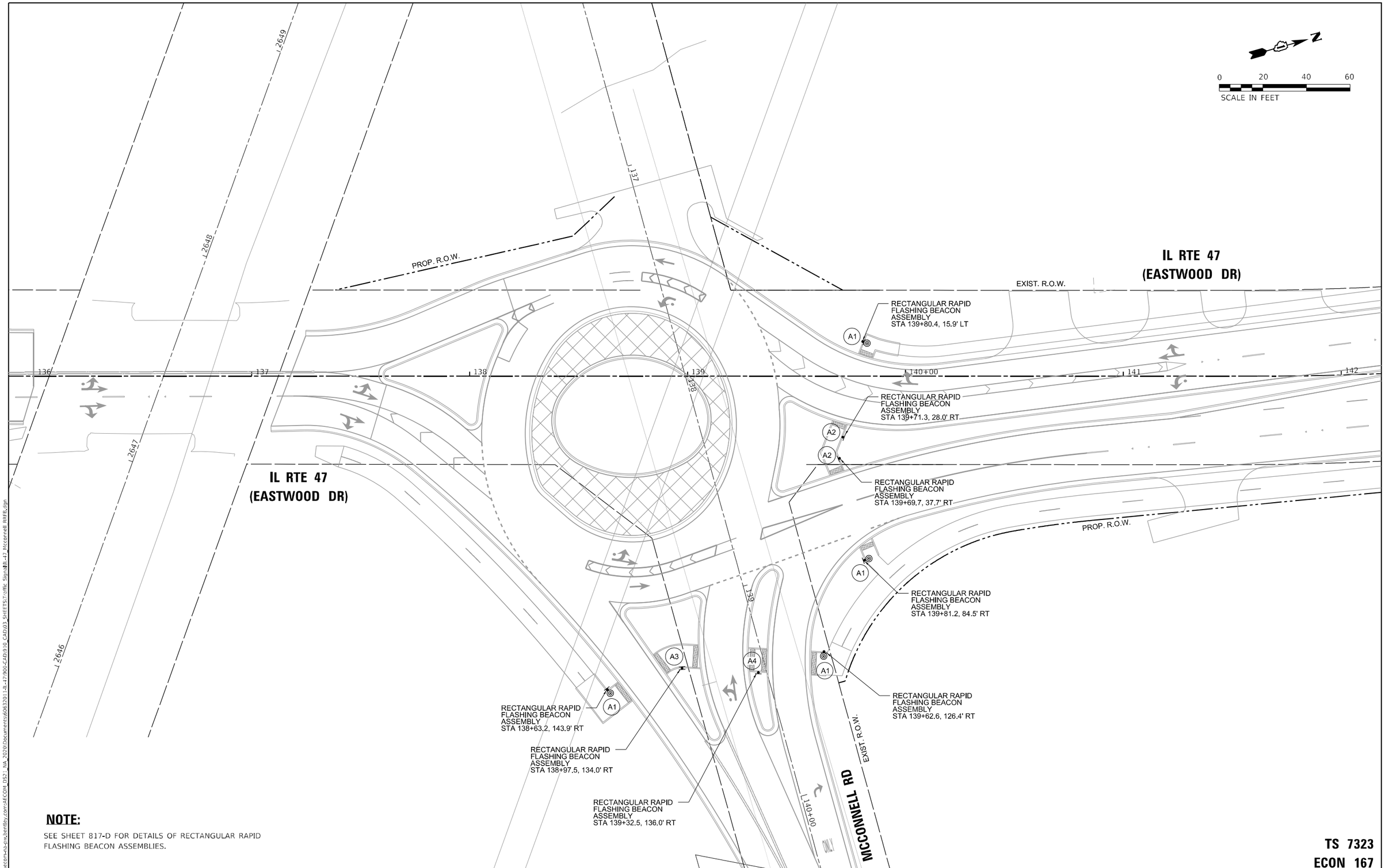
ATLAS TECHNICAL CONSULTANTS, LLC 100 S. WACKER DRIVE, SUITE 400 CHICAGO, IL 60606	USER NAME = nsalehian	DESIGNED - NS	REVISED -	STATE OF ILLINOIS DEPARTMENT OF TRANSPORTATION	RECTANGULAR RAPID FLASHING BEACON ASSEMBLY INSTALLATION PLAN IL RTE 47 (EASTWOOD DR) AND LAKE AVE
		DRAWN - NS	REVISED -		
	PLOT SCALE = 40.0000 ' / in.	CHECKED - TS	REVISED -		
	PLOT DATE = 2/6/2025	DATE - 02/06/2025	REVISED -		SCALE: SHEET OF SHEETS STA. TO STA.

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
326	2024-1052-N,C,SW,FL.	MCHENRY	941	817-A
		CONTRACT NO. 62X94		
		ILLINOIS	FED. AID PROJECT	



NOTE:

SEE SHEET 817-D FOR DETAILS OF RECTANGULAR RAPID FLASHING BEACON ASSEMBLIES.

TS SHT NO. 84

TS 7323
ECON 167

MODEL: Default
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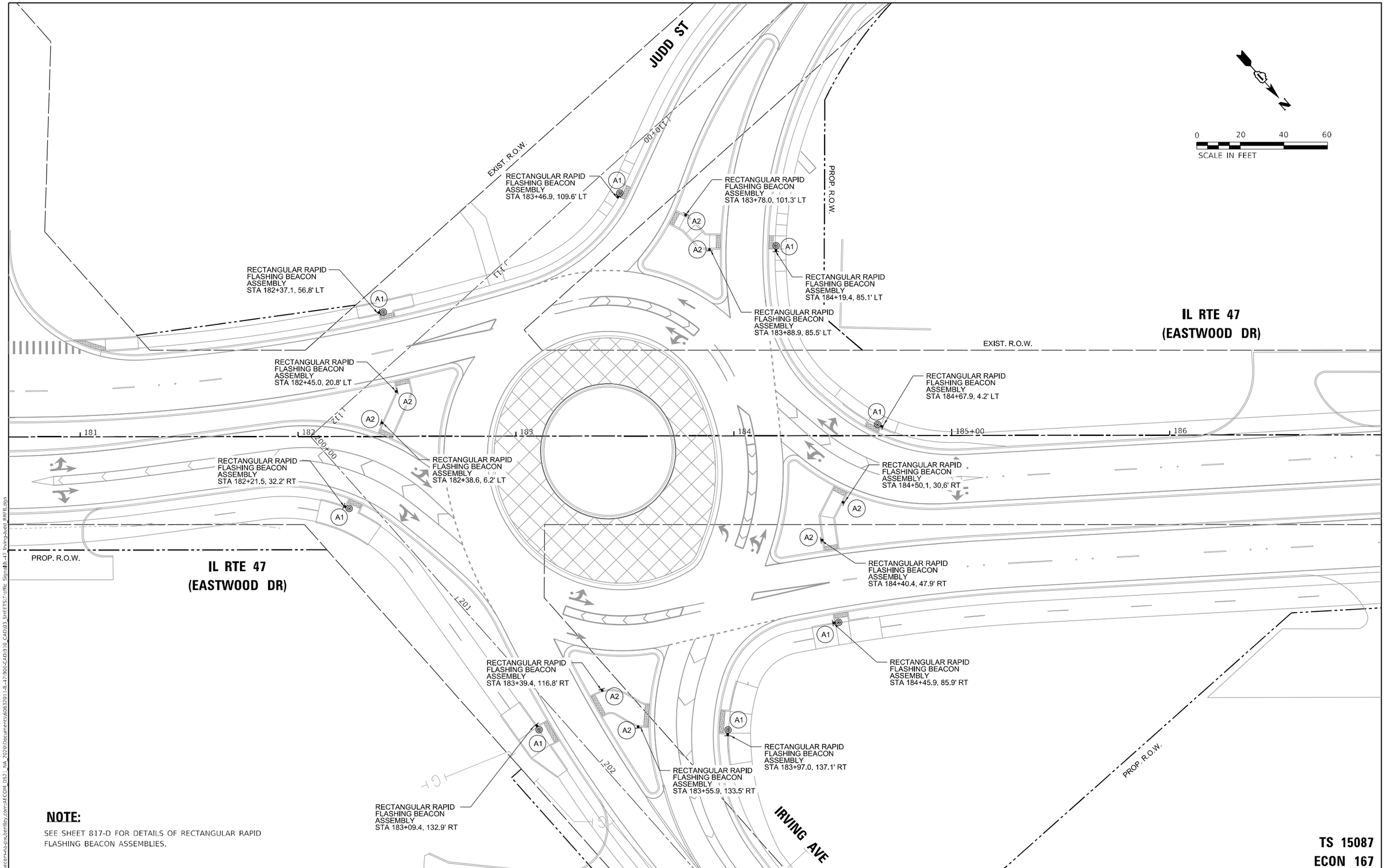
ATLAS TECHNICAL CONSULTANTS, LLC 100 S. WACKER DRIVE, SUITE 400 CHICAGO, IL 60606	USER NAME = nsalehian	DESIGNED - NS	REVISED -	STATE OF ILLINOIS DEPARTMENT OF TRANSPORTATION	RECTANGULAR RAPID FLASHING BEACON ASSEMBLY INSTALLATION PLAN IL RTE 47 (EASTWOOD DR) AND MCCONNELL RD
		DRAWN - NS	REVISED -		
	PLOT SCALE = 40.0000 ' / in.	CHECKED - TS	REVISED -		
	PLOT DATE = 2/6/2025	DATE - 02/06/2025	REVISED -		SCALE: SHEET OF SHEETS STA. TO STA.

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
326	2024-1052-N,C,SW,FL.	MCHENRY	941	817-B
		CONTRACT NO. 62X94		
		ILLINOIS	FED. AID PROJECT	



NOTE:

SEE SHEET 817-D FOR DETAILS OF RECTANGULAR RAPID FLASHING BEACON ASSEMBLIES.

TS SHT NO. 85

TS 15087
ECON 167

MODEL: Default
FILE NAME: pw:\\aecom-us-pw.bentley.com:AECOM_DS2 - NA_2020\Documents\60632011-IL-17900-CAD-910_CADD03_SHEETS\Traffic Signals\IL-47 Irving-Judd_RRFB.dgn

ATLAS TECHNICAL CONSULTANTS, LLC 100 S. WACKER DRIVE, SUITE 400 CHICAGO, IL 60606	USER NAME = nsalehian	DESIGNED - NS	REVISED -
		DRAWN - NS	REVISED -
	PLOT SCALE = 40.0000 ' / in.	CHECKED - TS	REVISED -
	PLOT DATE = 2/6/2025	DATE - 02/06/2025	REVISED -

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

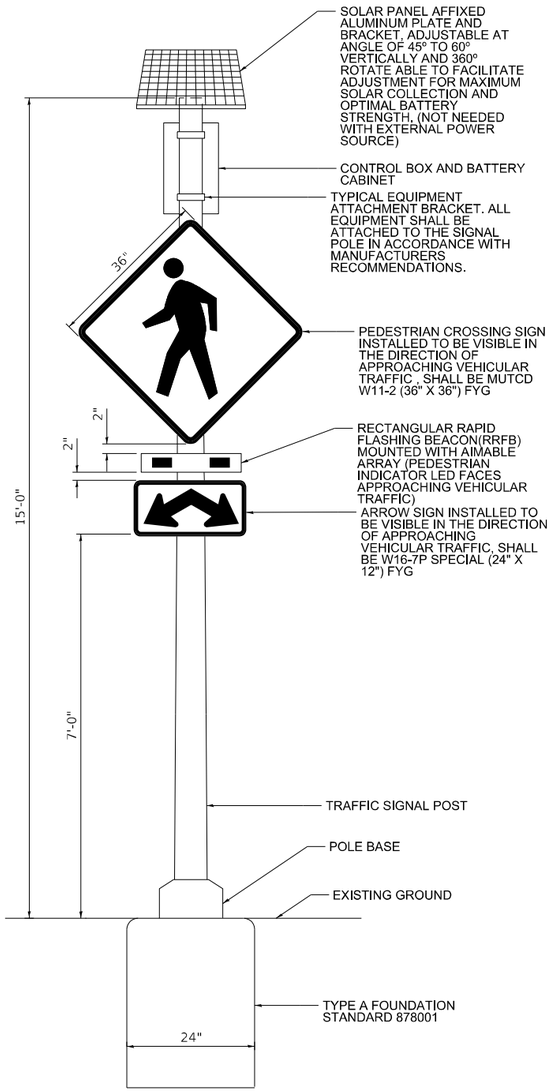
RECTANGULAR RAPID FLASHING BEACON ASSEMBLY INSTALLATION PLAN
IL RTE 47 (EASTWOOD DR) AND IRVING AVE/JUDD ST

SCALE: SHEET OF SHEETS STA. TO STA.

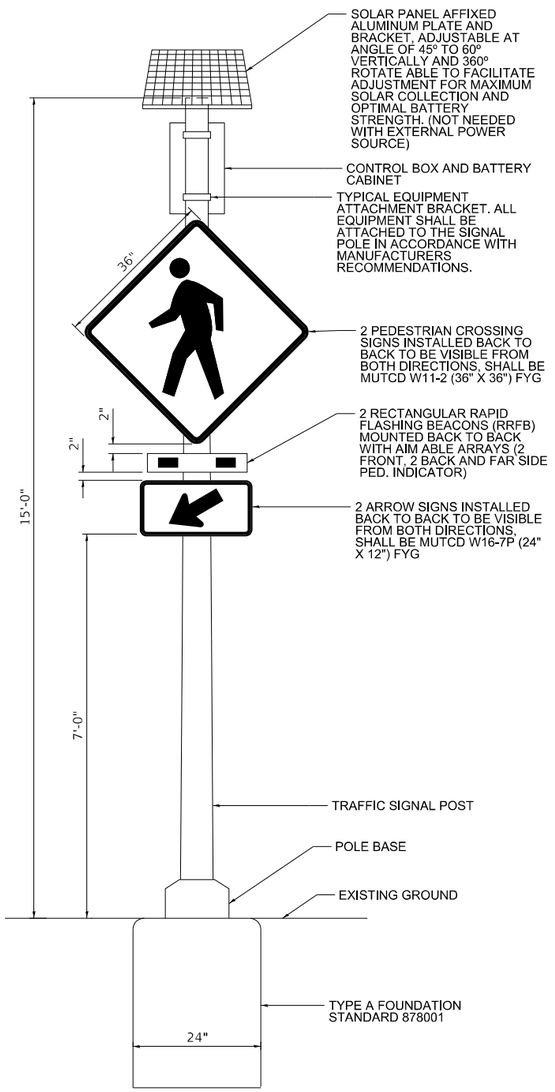
F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
326	2024-1052-N,C,SW,FL.	MCHENRY	941	817-C
		CONTRACT NO. 62X94		
		ILLINOIS FED. AID PROJECT		

NOTES

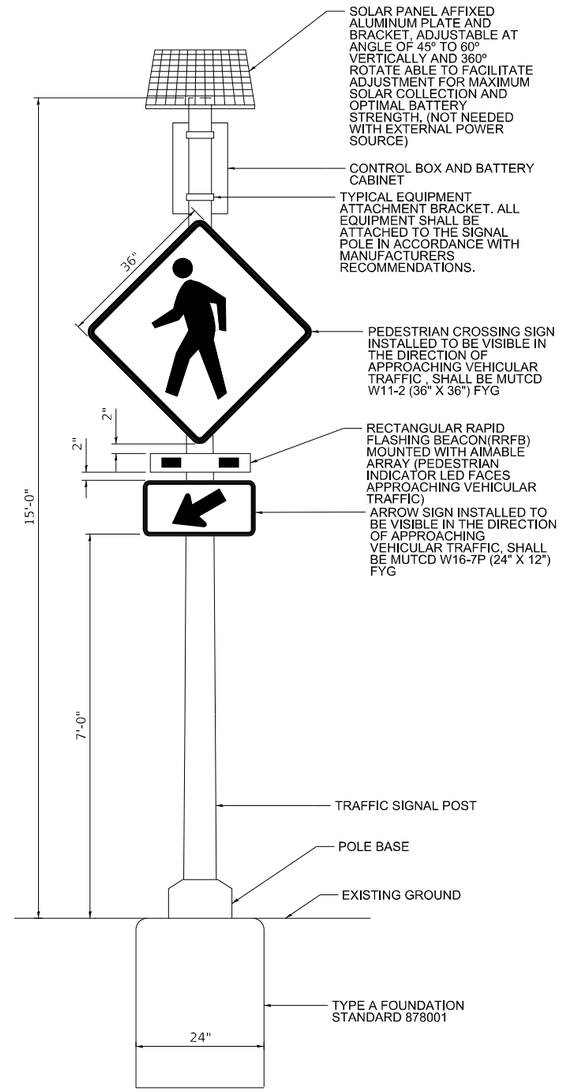
1. SEE SPECIAL PROVISION FOR RECTANGULAR RAPID FLASHING BEACON ASSEMBLY (COMPLETE).
2. POST AND FOUNDATION SHALL BE ACCORDING TO ARTICLE 1077.01 OF THE STANDARD SPECIFICATIONS FOR ROAD AND BRIDGE CONSTRUCTION.
3. WHERE APS IS PROPOSED, FOUNDATIONS SHALL BE PLACED ADJACENT TO THE EDGE OF SIDEWALK AT THE STATIONS INDICATED ON THE PLANS.



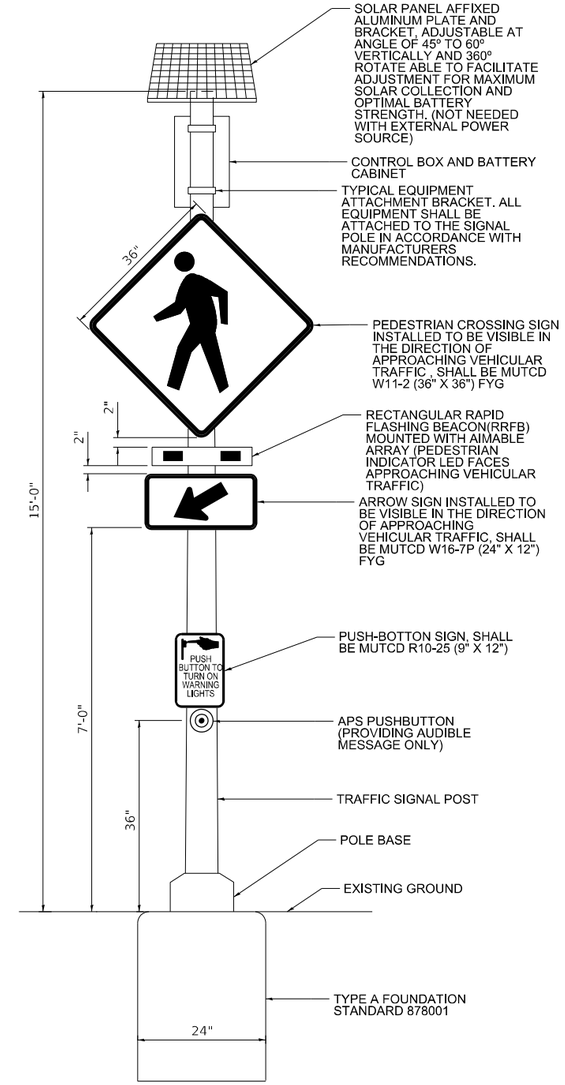
RECTANGULAR RAPID FLASHING BEACON ASSEMBLY
A4 DETAIL
NOT TO SCALE



RECTANGULAR RAPID FLASHING BEACON ASSEMBLY
A3 DETAIL
NOT TO SCALE



RECTANGULAR RAPID FLASHING BEACON ASSEMBLY
A2 DETAIL
NOT TO SCALE

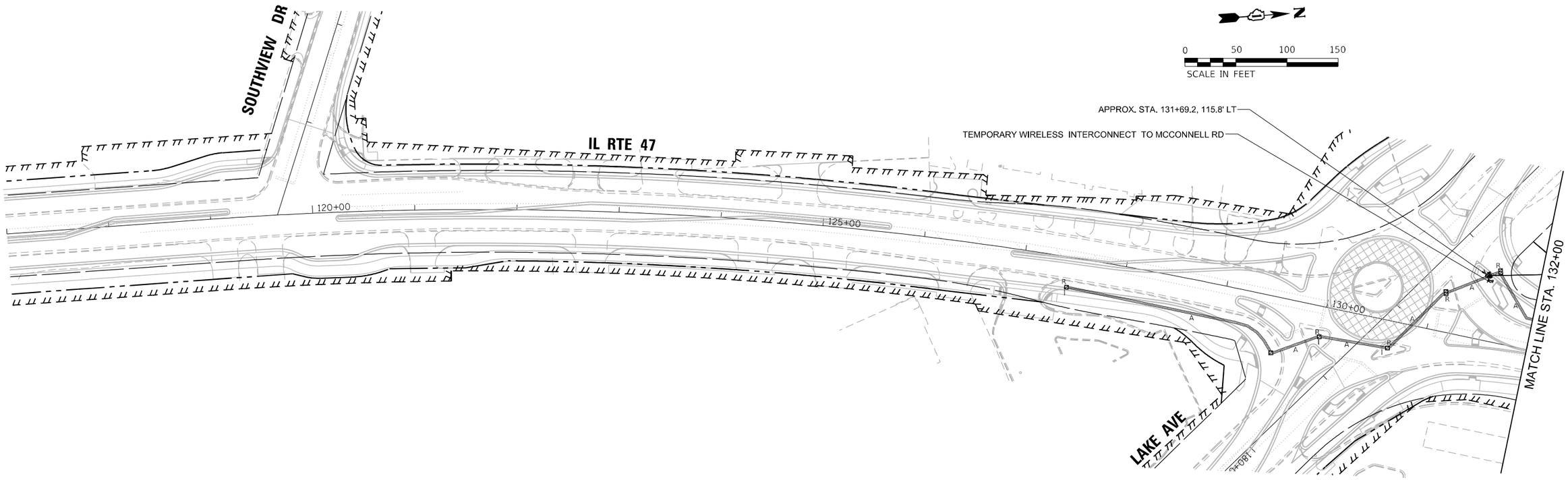


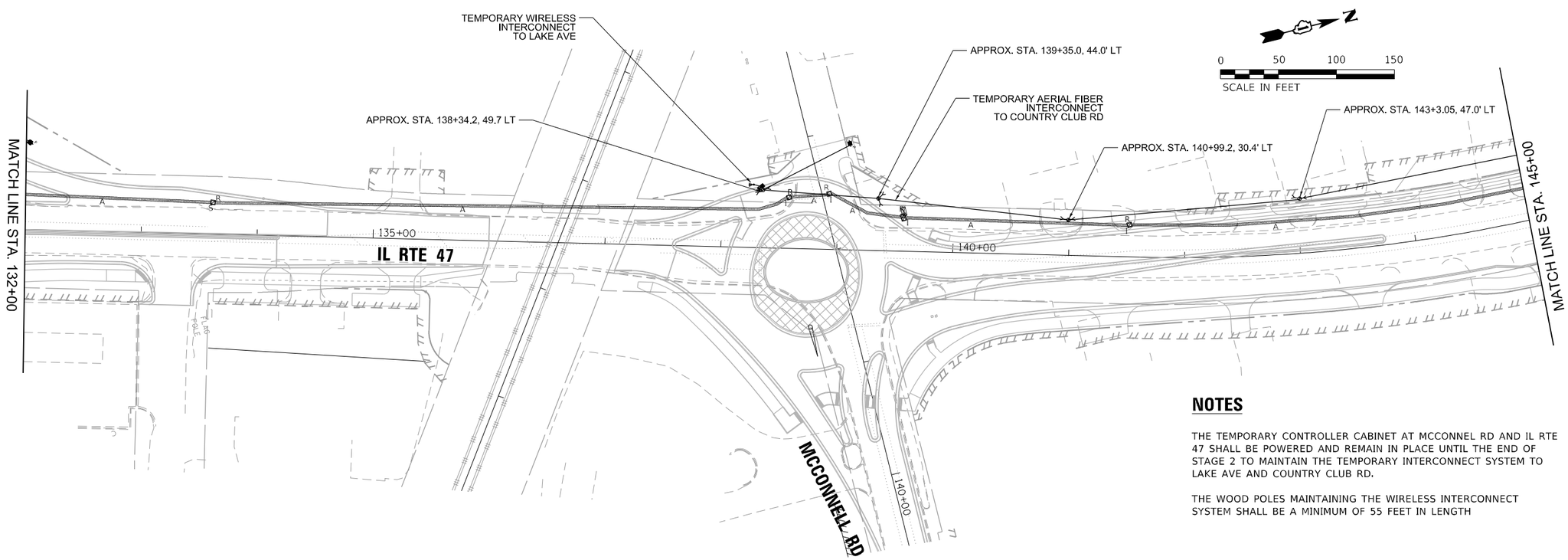
RECTANGULAR RAPID FLASHING BEACON ASSEMBLY
A1 DETAIL
NOT TO SCALE

TS SHT NO. 86

MODEL: Default
FILE NAME: pw:\\bkcom-ss-pw.bentley.com:AECOM_DS2 - NA_2020\Documents\60632011-IL-47300-CAD\910_CAD\03_SHEETS\Traffic Signal\BI-47_RRFB_Detail.dgn

ATLAS TECHNICAL CONSULTANTS, LLC 100 S. WACKER DRIVE, SUITE 400 CHICAGO, IL 60606	USER NAME = nsalehian	DESIGNED - NS	REVISED -	STATE OF ILLINOIS DEPARTMENT OF TRANSPORTATION	FLASHING BEACON ASSEMBLY DETAIL	F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS / SHEET NO.
		DRAWN - NS	REVISED -			326	2024-1052-N,C,SW,FL.	MCHENRY	941 / 817-D
	PLOT SCALE = 40.0000 ' / in.	CHECKED - TS	REVISED -					CONTRACT NO. 62X94	
	PLOT DATE = 2/6/2025	DATE - 02/06/2025	REVISED -		SCALE: SHEET OF SHEETS STA. TO STA.		ILLINOIS	FED. AID PROJECT	





NOTES

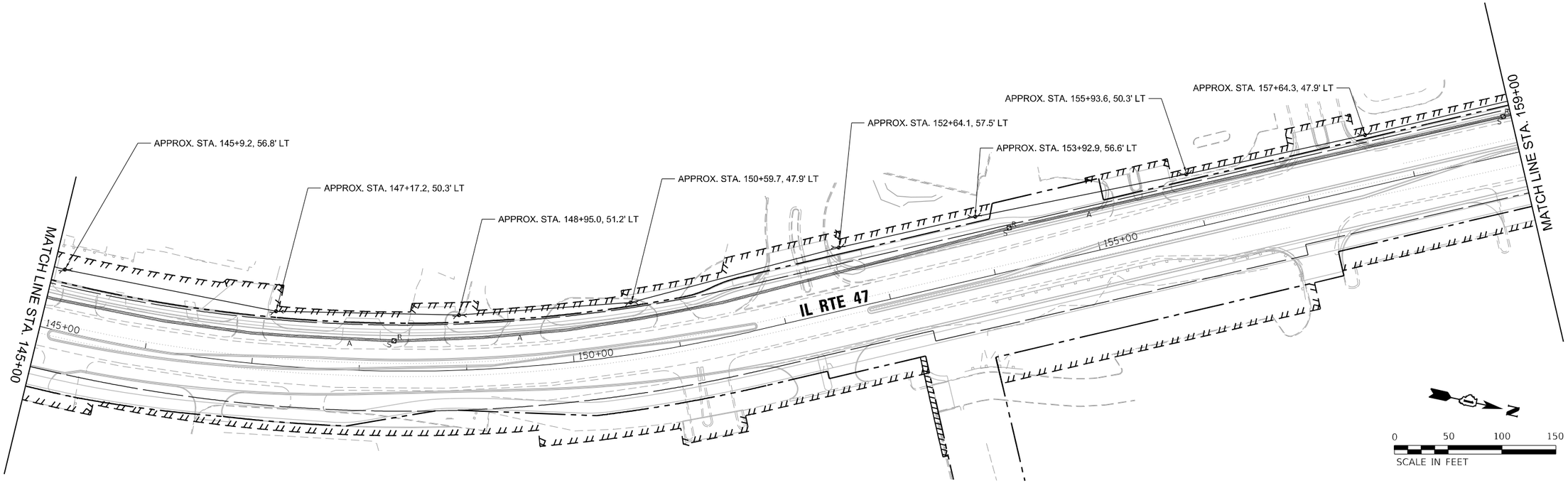
THE TEMPORARY CONTROLLER CABINET AT MCCONNEL RD AND IL RTE 47 SHALL BE POWERED AND REMAIN IN PLACE UNTIL THE END OF STAGE 2 TO MAINTAIN THE TEMPORARY INTERCONNECT SYSTEM TO LAKE AVE AND COUNTRY CLUB RD.

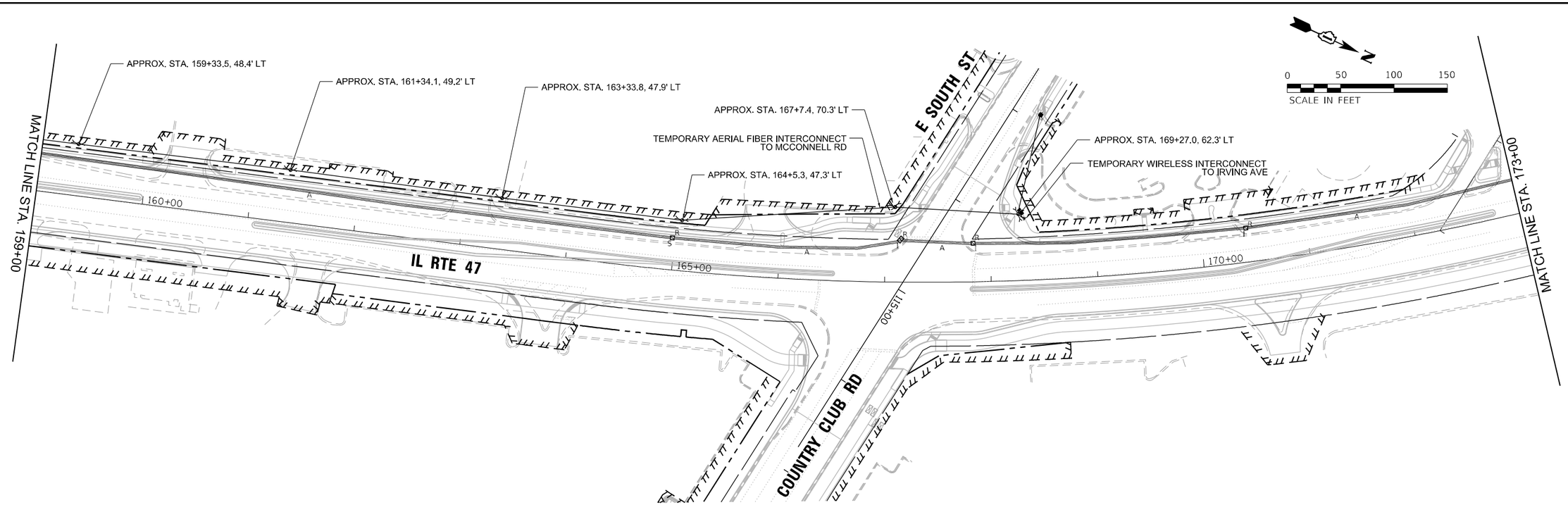
THE WOOD POLES MAINTAINING THE WIRELESS INTERCONNECT SYSTEM SHALL BE A MINIMUM OF 55 FEET IN LENGTH

TS SHT NO. 87

MODEL: Default
FILE NAME: pw:\\aecom-ho-pw.bentley.com:AECOM_DS2 - NA_2020\Documents\60632011-IL-47900-CAD910 CADD03 SHEETS\Traffic Signal\IL-47 Temp Interconnect Plan.dgn

ATLAS TECHNICAL CONSULTANTS, LLC 100 S. WACKER DRIVE, SUITE 400 CHICAGO, IL 60606	USER NAME = nsalehian	DESIGNED - NS	REVISED -	STATE OF ILLINOIS DEPARTMENT OF TRANSPORTATION	TEMPORARY INTERCONNECT PLAN (SHEET 1 OF 3) IL RTE 47 (EASTWOOD DR)	F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
		DRAWN - NS	REVISED -			326	2024-1052-N,C,SW,FL.	MCHENRY	941	818
	PLOT SCALE = 100.0000 ' / in.	CHECKED - TS	REVISED -					CONTRACT NO. 62X94		
	PLOT DATE = 2/6/2025	DATE - 02/06/2025	REVISED -		SCALE: 1":50' SHEET OF SHEETS STA. TO STA.		ILLINOIS	FED. AID PROJECT		





TS SHT NO. 88

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ATLAS
ATLAS TECHNICAL CONSULTANTS, LLC
100 S. WACKER DRIVE, SUITE 400
CHICAGO, IL 60606

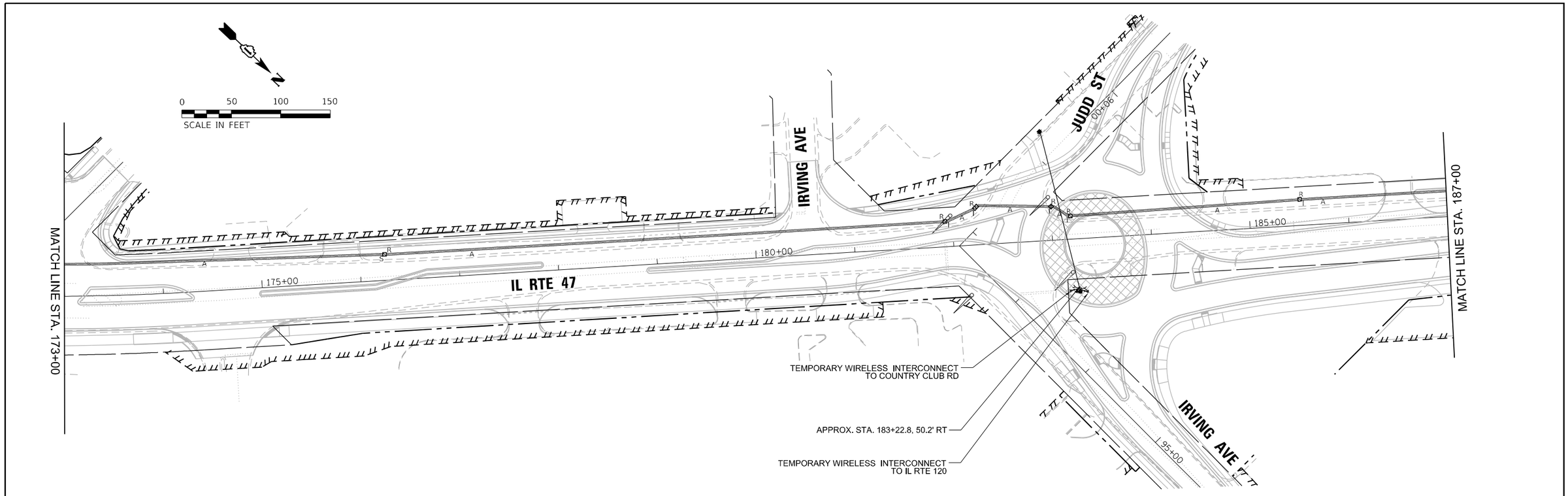
USER NAME = nsalehian	DESIGNED - NS	REVISED -	
	DRAWN - NS	REVISED -	
PLOT SCALE = 100.0000 ' / in.	CHECKED - TS	REVISED -	
PLOT DATE = 2/6/2025	DATE - 02/06/2025	REVISED -	

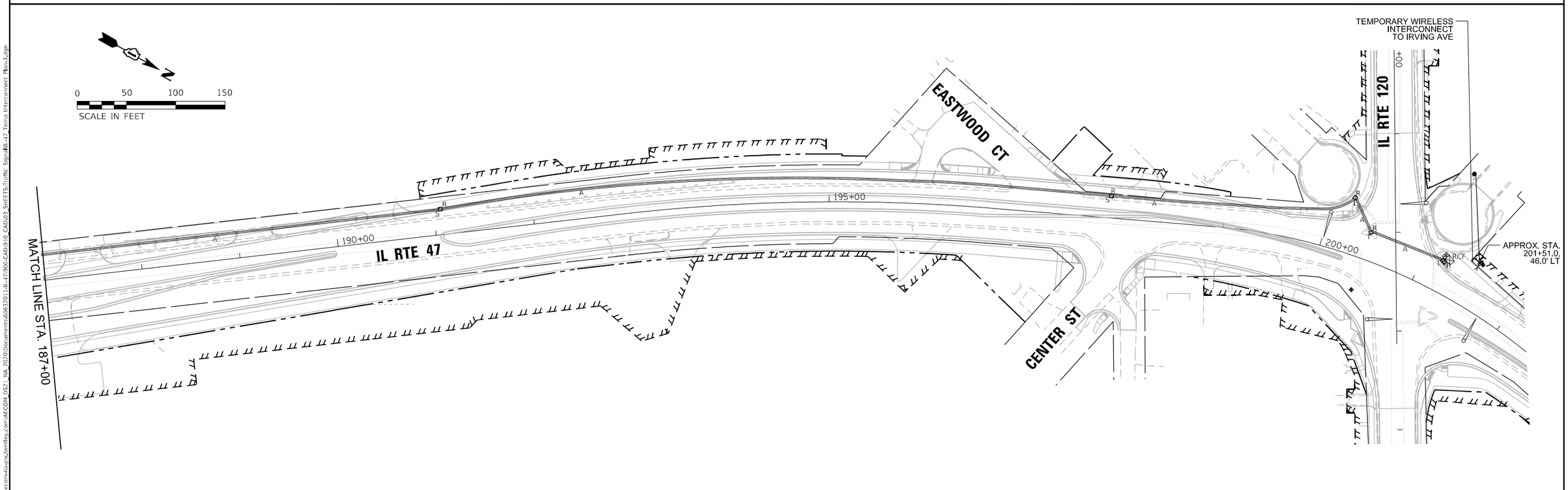
STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

TEMPORARY INTERCONNECT PLAN (SHEET 2 OF 3)
IL RTE 47 (EASTWOOD DR)

SCALE: 1":50' | SHEET OF SHEETS | STA. TO STA.

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
326	2024-1052-N,C,SW,FL.	MCHENRY	941	819
		CONTRACT NO. 62X94		
		ILLINOIS	FED. AID PROJECT	





TS SHT NO. 89

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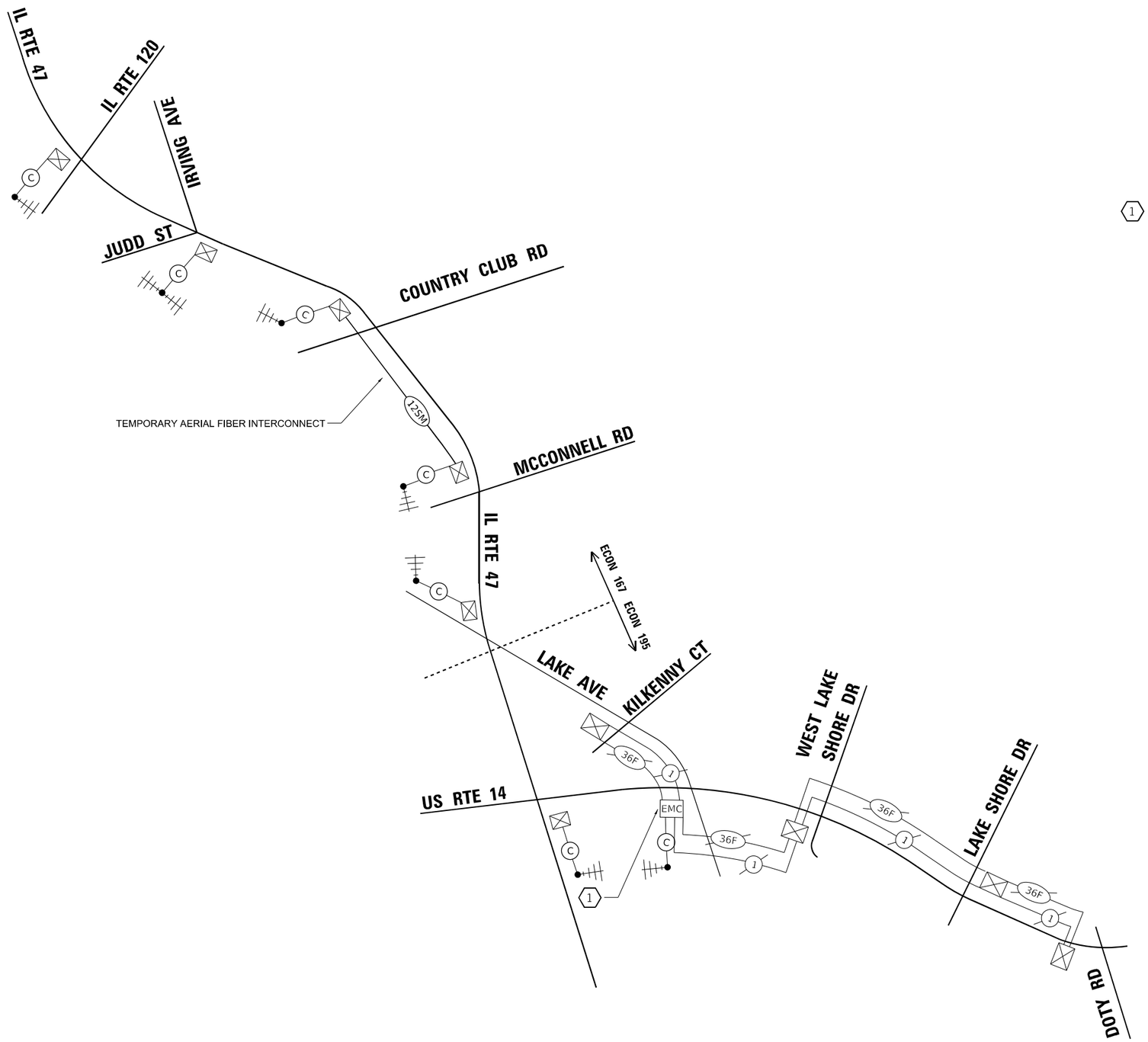
ATLAS TECHNICAL CONSULTANTS, LLC 100 S. WACKER DRIVE, SUITE 400 CHICAGO, IL 60606	USER NAME = nsalehian	DESIGNED - NS	REVISED -	STATE OF ILLINOIS DEPARTMENT OF TRANSPORTATION	TEMPORARY INTERCONNECT PLAN (SHEET 3 OF 3) IL RTE 47 (EASTWOOD DR)	F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
		DRAWN - NS	REVISED -			326	2024-1052-N,C,SW,FL.	MCHENRY	941	820
	PLOT SCALE = 100.0047 ' / in.	CHECKED - TS	REVISED -					CONTRACT NO. 62X94		
	PLOT DATE = 2/6/2025	DATE - 02/06/2025	REVISED -		SCALE: 1":50' SHEET OF SHEETS STA. TO STA.		ILLINOIS	FED. AID PROJECT		



N

CONSTRUCITON NOTE:

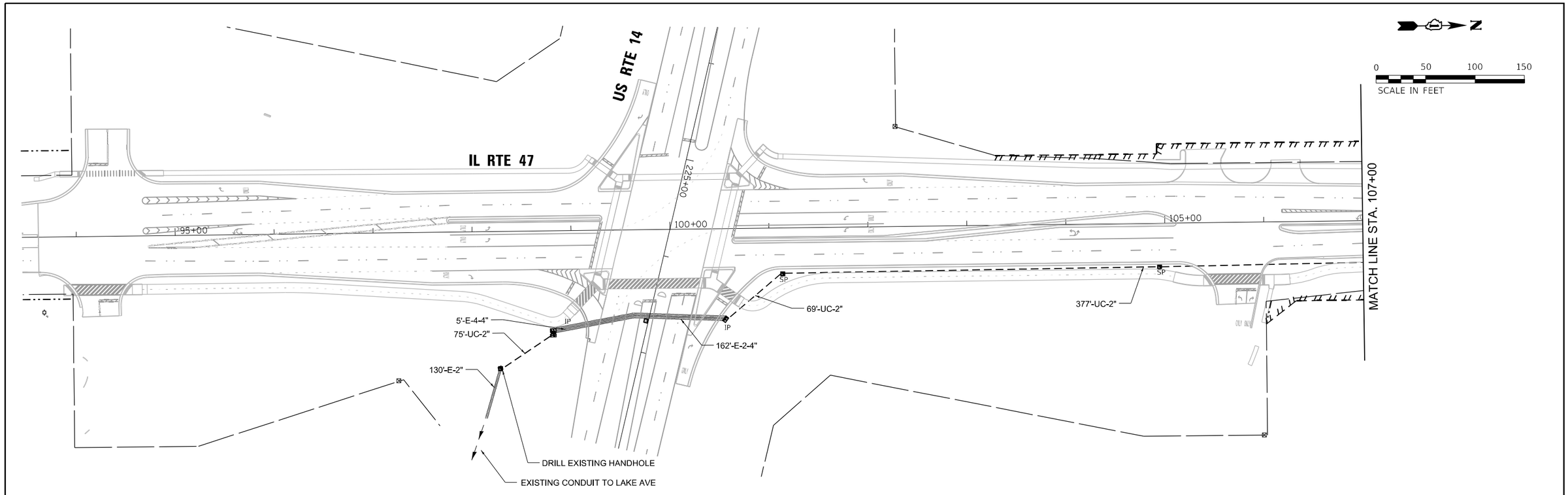
1. CONTRACTOR SHALL REMOVE THE EXISTING MASTER CONTROLLER AND RETURN IT TO IDOT SPARE PARTS AT THE END OF CONSTRUCTION.

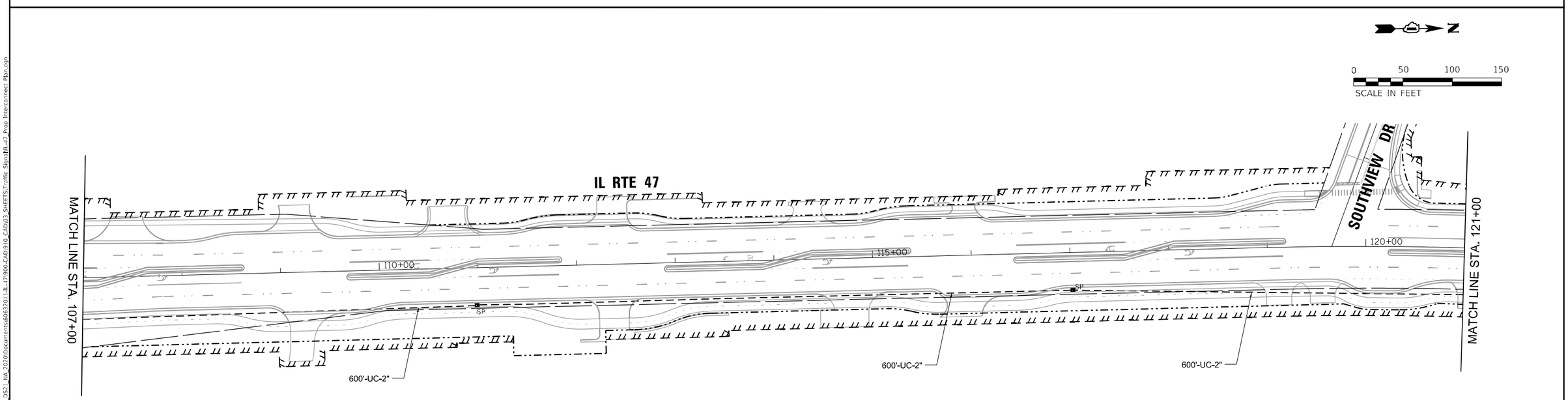
TS SHT NO. 90

ECON 167 AND 195

MODEL: Default
FILE NAME: pw:\\bcecom-pw.bentley.com:AFCOM DS2 - NA 2020\Documents\606320 1-IL-47-900-C4D\03 CAD\03 SHEETS\Traffic Signal\IL-47 Temp Interconnect Schematic.dgn

ATLAS TECHNICAL CONSULTANTS, LLC 100 S. WACKER DRIVE, SUITE 400 CHICAGO, IL 60606	USER NAME = nsalehian	DESIGNED - NS	REVISED -	STATE OF ILLINOIS DEPARTMENT OF TRANSPORTATION	TEMPORARY INTERCONNECT SCHEMATIC IL RTE 47 (EASTWOOD DR)	F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
		DRAWN - NS	REVISED -			326	2024-1052-N,C,SW,FL.	MCHENRY	941	821
	PLOT SCALE = 100.0000 ' / in.	CHECKED - TS	REVISED -					CONTRACT NO. 62X94		
	PLOT DATE = 2/6/2025	DATE - 02/06/2025	REVISED -		SCALE: SHEET OF SHEETS STA. TO STA.		ILLINOIS	FED. AID PROJECT		





TS SHT NO. 91

IDOT CENTRACS

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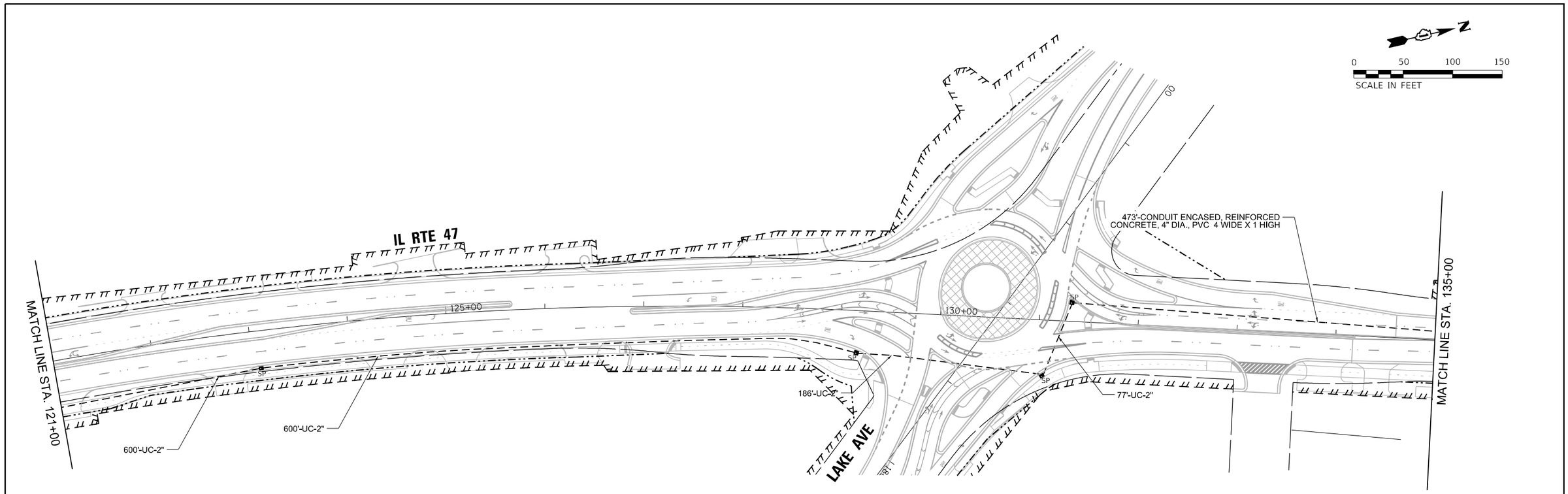
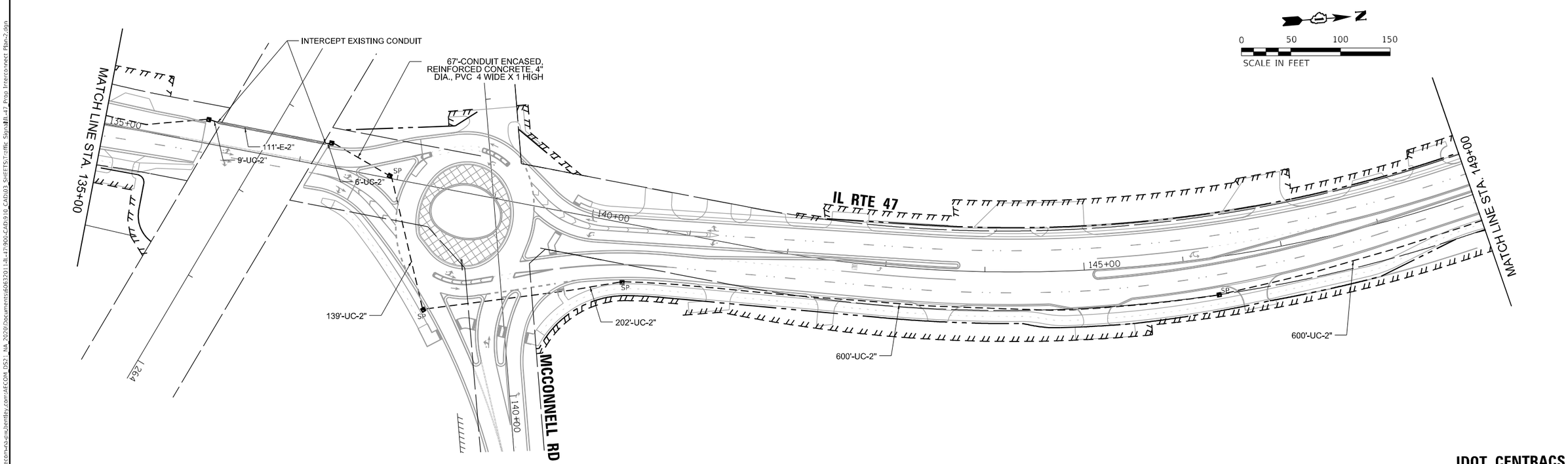
ATLAS TECHNICAL CONSULTANTS, LLC 100 S. WACKER DRIVE, SUITE 400 CHICAGO, IL 60606	USER NAME = nsalehian	DESIGNED - NS	REVISED -	STATE OF ILLINOIS DEPARTMENT OF TRANSPORTATION	PROPOSED INTERCONNECT PLAN (SHEET 1 OF 4) IL RTE 47 (EASTWOOD DR)	F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
		DRAWN - NS	REVISED -			326	2024-1052-N,C,SW,FL.	MCHENRY	941	822
	PLOT SCALE = 100.0002 ft / in.	CHECKED - TS	REVISED -					CONTRACT NO. 62X94		
	PLOT DATE = 2/6/2025	DATE - 02/06/2025	REVISED -		SCALE: 1":50' SHEET OF SHEETS STA. TO STA.			ILLINOIS FED. AID PROJECT		





TS SHT NO. 92

IDOT CENTRACS

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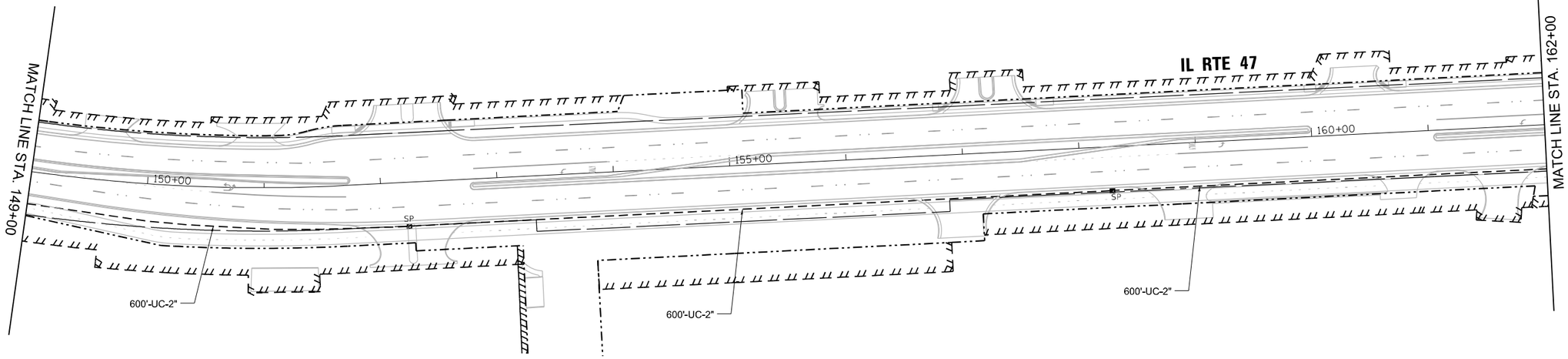
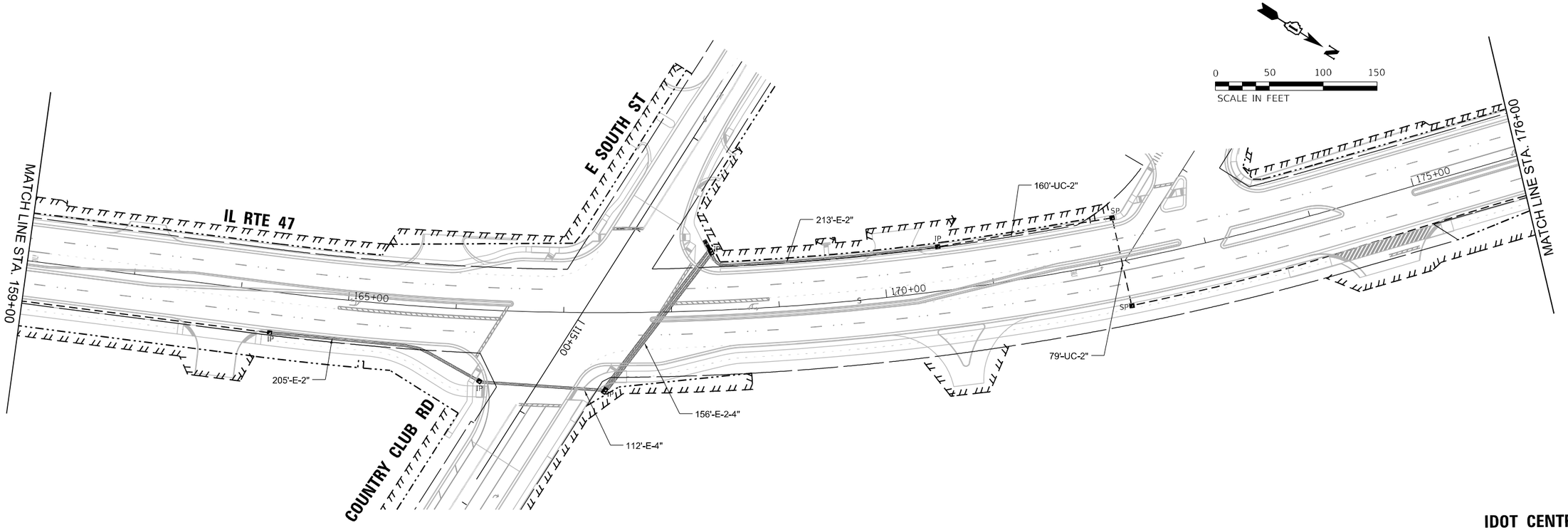
ATLAS TECHNICAL CONSULTANTS, LLC 100 S. WACKER DRIVE, SUITE 400 CHICAGO, IL 60606	USER NAME = nsalehian	DESIGNED - NS	REVISED -	STATE OF ILLINOIS DEPARTMENT OF TRANSPORTATION	PROPOSED INTERCONNECT PLAN (SHEET 2 OF 4) IL RTE 47 (EASTWOOD DR)	F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS / SHEET NO.
		DRAWN - NS	REVISED -			326	2024-1052-N,C,SW,FL.	MCHENRY	941 / 823
	PLOT SCALE = 100.0000 ' / in.	CHECKED - TS	REVISED -					CONTRACT NO. 62X94	
	PLOT DATE = 2/6/2025	DATE - 02/06/2025	REVISED -		SCALE: 1":50' SHEET OF SHEETS STA. TO STA.		ILLINOIS	FED. AID PROJECT	



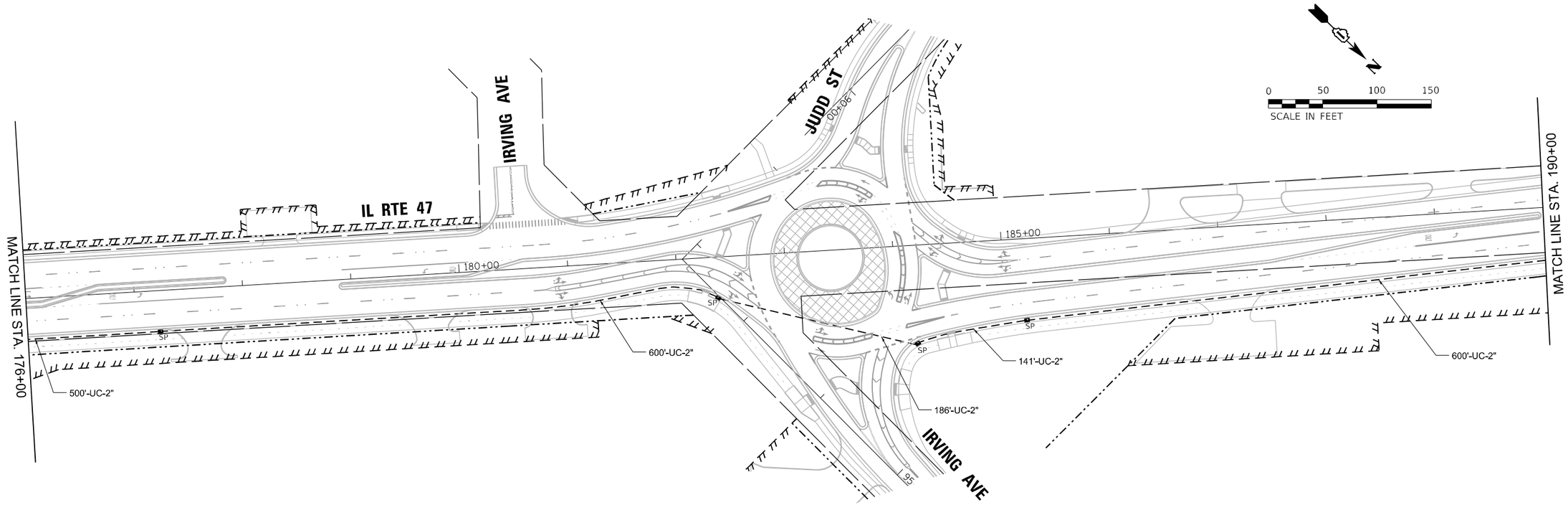


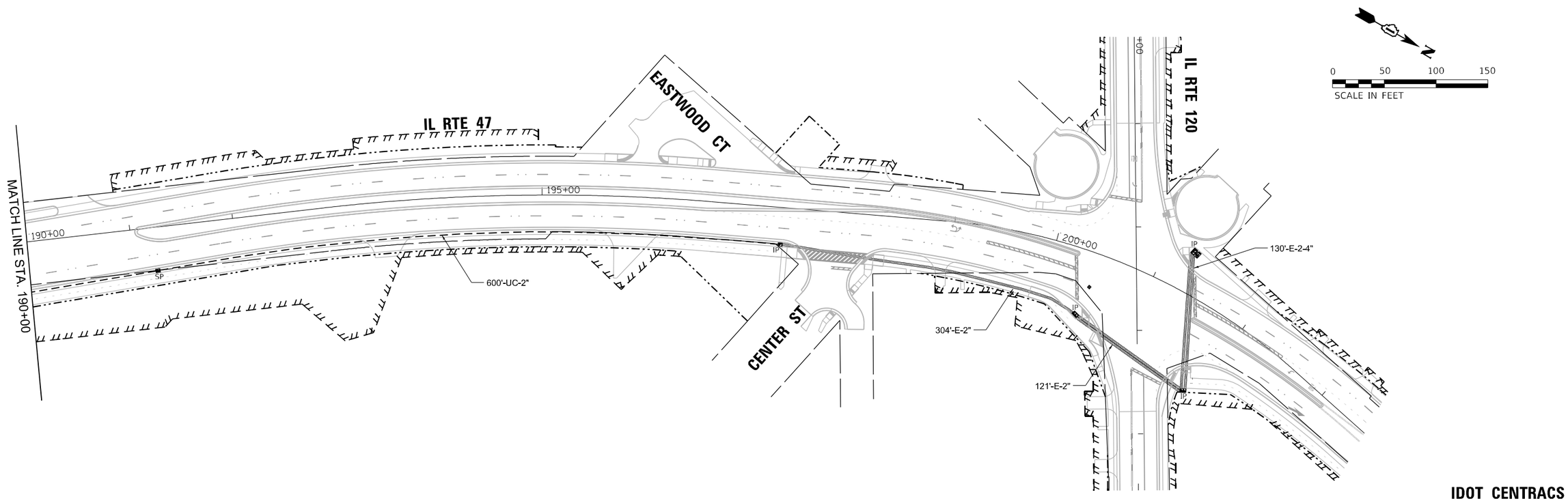
TS SHT NO. 93

IDOT CENTRACS

MODEL: Default
FILE NAME: pw:\\bcom-pw.bentley.com:AFCOM DS2 NA 2020\Documents\606320 1-IL-47 900-CAD\10 CAD\03 SHEETS\Traffic Sign\IL-47 Prop Interconnect Plan-3.dgn

ATLAS TECHNICAL CONSULTANTS, LLC 100 S. WACKER DRIVE, SUITE 400 CHICAGO, IL 60606	USER NAME = nsalehian	DESIGNED - NS	REVISED -	STATE OF ILLINOIS DEPARTMENT OF TRANSPORTATION	PROPOSED INTERCONNECT PLAN (SHEET 3 OF 4) IL RTE 47 (EASTWOOD DR)	F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS / SHEET NO.
		DRAWN - NS	REVISED -			326	2024-1052-N,C,SW,FL.	MCHENRY	941 / 824
	PLOT SCALE = 100.0000 ' / in.	CHECKED - TS	REVISED -					CONTRACT NO. 62X94	
	PLOT DATE = 2/6/2025	DATE - 02/06/2025	REVISED -		SCALE: 1":50' SHEET OF SHEETS STA. TO STA.		ILLINOIS	FED. AID PROJECT	





TS SHT NO. 94

IDOT CENTRACS

MODEL: Default
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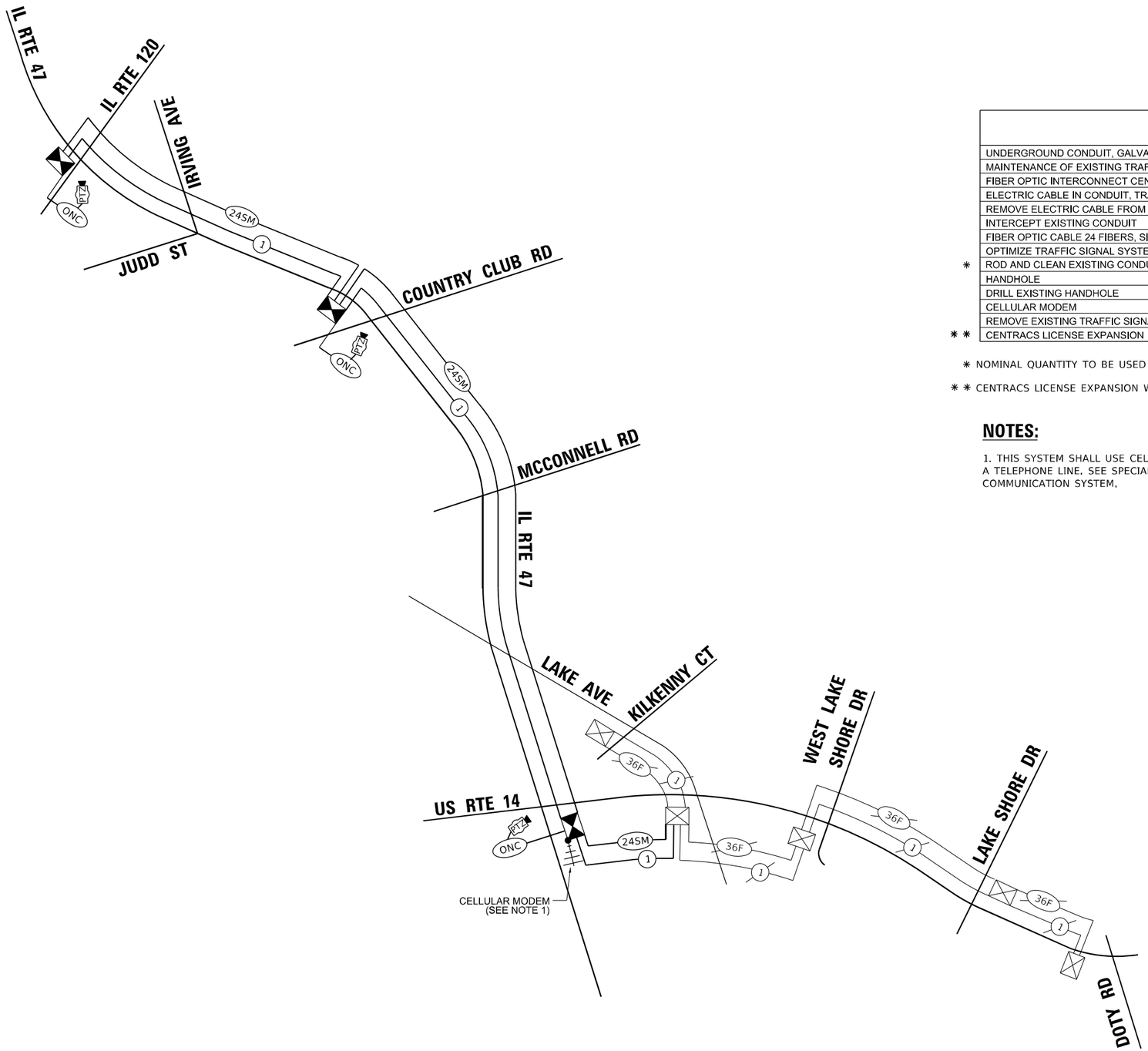
ATLAS TECHNICAL CONSULTANTS, LLC 100 S. WACKER DRIVE, SUITE 400 CHICAGO, IL 60606	USER NAME = nsalehian	DESIGNED - NS	REVISED -	STATE OF ILLINOIS DEPARTMENT OF TRANSPORTATION	PROPOSED INTERCONNECT PLAN (SHEET 4 OF 4) IL RTE 47 (EASTWOOD DR)
		DRAWN - NS	REVISED -		
	PLOT SCALE = 100.0047 ' / in.	CHECKED - TS	REVISED -		
	PLOT DATE = 2/6/2025	DATE - 02/06/2025	REVISED -		SCALE: 1":50' SHEET OF SHEETS STA. TO STA.

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
326	2024-1052-N,C,SW,FL.	MCHENRY	941	825
		CONTRACT NO. 62X94		
		ILLINOIS	FED. AID PROJECT	



SCHEDULE OF QUANTITIES

	ITEM DESCRIPTION	UNITS	TOTAL QTY
	UNDERGROUND CONDUIT, GALVANIZED STEEL, 2" DIA.	FOOT	9272
	MAINTENANCE OF EXISTING TRAFFIC SIGNAL INSTALLATION	EACH	1
	FIBER OPTIC INTERCONNECT CENTER, 24 PORT	EACH	3
	ELECTRIC CABLE IN CONDUIT, TRACER, NO. 14 1C	FOOT	10110
	REMOVE ELECTRIC CABLE FROM CONDUIT	FOOT	4843
	INTERCEPT EXISTING CONDUIT	EACH	2
	FIBER OPTIC CABLE 24 FIBERS, SINGLE MODE	FOOT	10110
	OPTIMIZE TRAFFIC SIGNAL SYSTEM	EACH	1
*	ROD AND CLEAN EXISTING CONDUIT	FOOT	200
	HANDHOLE	EACH	23
	DRILL EXISTING HANDHOLE	EACH	1
	CELLULAR MODEM	EACH	1
	REMOVE EXISTING TRAFFIC SIGNAL EQUIPMENT	EACH	1
* *	CENTRACS LICENSE EXPANSION	EACH	3

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

* * CENTRACS LICENSE EXPANSION WILL BE PROVIDED BY IDOT TRAFFIC

NOTES:

1. THIS SYSTEM SHALL USE CELLULAR MODEM IN LIEU OF A TELEPHONE LINE. SEE SPECIAL PROVISION FOR CELLULAR COMMUNICATION SYSTEM.

IDOT CENTRACS

TS SHT NO. 95

MODEL: Default
FILE NAME: pw:\\aecom-na-pw.bentley.com:AECOM_US21_NA_2020\Documents\60632011.11-11900-CAD\10_CAD\03_SHEETS\Traffic Signal\IL-47 Prop Interconnect Schematic-2.dgn

ATLAS
ATLAS TECHNICAL CONSULTANTS, LLC
100 S. WACKER DRIVE, SUITE 400
CHICAGO, IL 60606

USER NAME = nsalehian	DESIGNED - NS	REVISED -	
	DRAWN - NS	REVISED -	
PLOT SCALE = 100.0000 ' / in.	CHECKED - TS	REVISED -	
PLOT DATE = 2/6/2025	DATE - 02/06/2025	REVISED -	

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

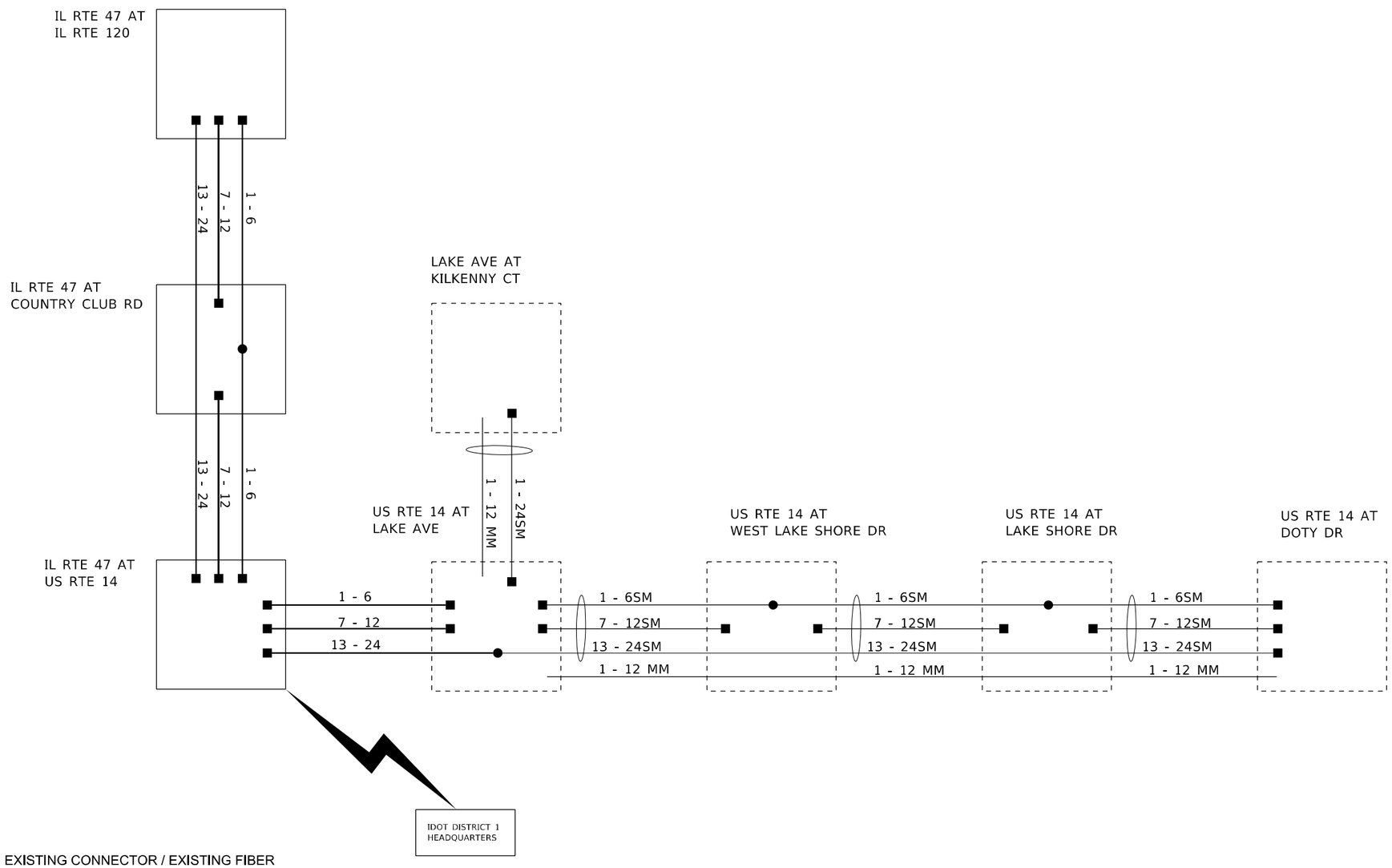
PROPOSED INTERCONNECT SCHEMATIC
IL RTE 47 (EASTWOOD DR)

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

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
326	2024-1052-N,C,SW,FL.	MCHENRY	941	826

CONTRACT NO. 62X94

ILLINOIS | FED. AID PROJECT



EXISTING CONNECTOR / EXISTING FIBER

NEW CONNECTOR / EXISTING FIBER

EXISTING FUSION SPLICE / EXISTING FIBER

NEW FUSION SPLICE / EXISTING FIBER

NEW CONNECTOR / NEW FIBER

NEW FUSION SPLICE / NEW FIBER

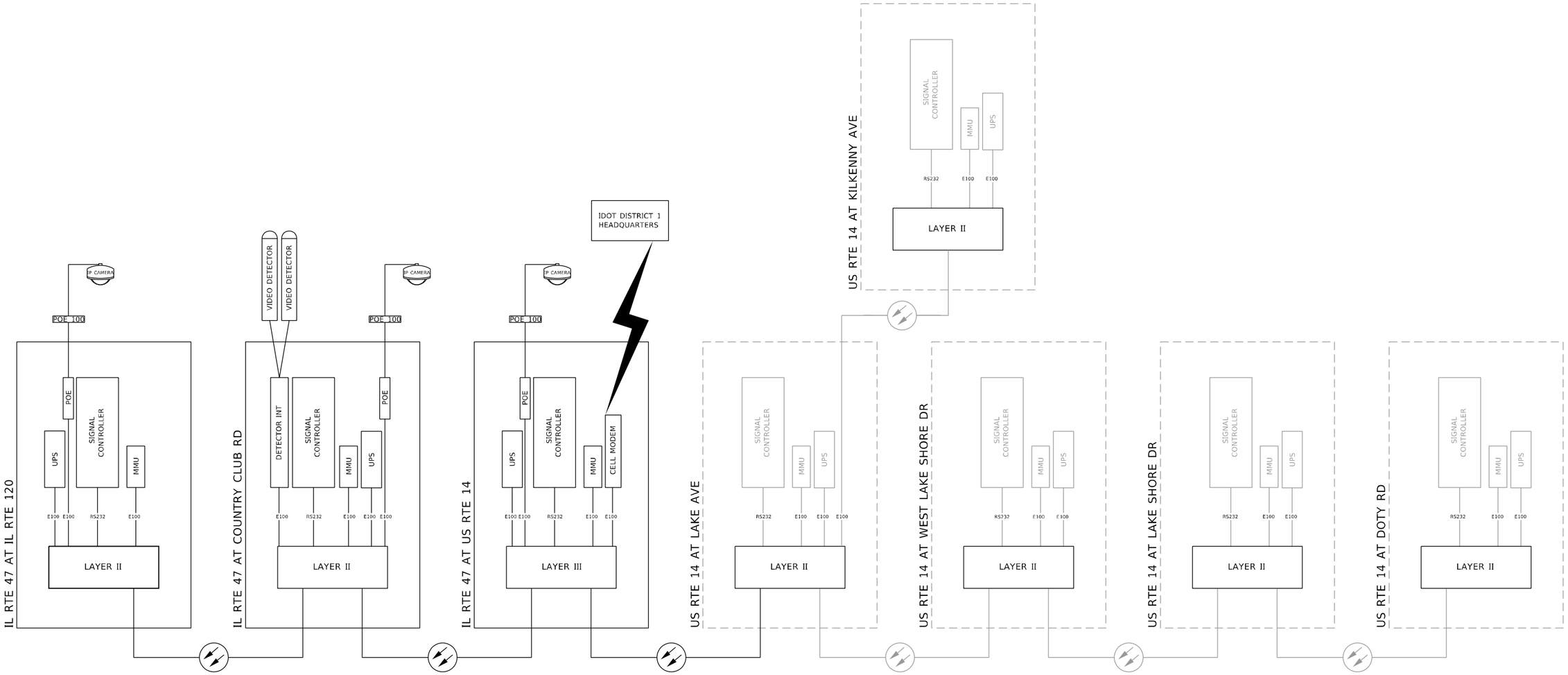
EXISTING HYBRID MULTI MODE / SINGLE MODE FIBER

TS SHT NO. 96

MODEL: Default
FILE NAME: pw:\\becom-wa-pw.bentley.com:AFCOM-DS2_NA_2020\Documents\6083201-IL-47\900-CAD\10_CAD\03_SHEETS\Traffic Signal\IL-47 Prop Interconnect Plan-3.dgn

IDOT CENTRACS

ATLAS TECHNICAL CONSULTANTS, LLC 100 S. WACKER DRIVE, SUITE 400 CHICAGO, IL 60606	USER NAME = nsalehian	DESIGNED - NS	REVISED -	STATE OF ILLINOIS DEPARTMENT OF TRANSPORTATION	FIBER SPLICING DIAGRAM	F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
		DRAWN - NS	REVISED -			326	2024-1052-N,C,SW,FL.	MCHENRY	941	827
	PLOT SCALE = 100.0000 ' / in.	CHECKED - TS	REVISED -					CONTRACT NO. 62X94		
	PLOT DATE = 2/6/2025	DATE - 02/06/2025	REVISED -		SCALE: SHEET OF SHEETS STA. TO STA.		ILLINOIS	FED. AID PROJECT		



EXISTING MULTIMODAL FIBER CONNECTION

PROPOSED MULTIMODAL FIBER CONNECTION

EXISTING SINGLEMODE FIBER CONNECTION

PROPOSED SINGLEMODE FIBER CONNECTION

EXISTING EQUIPMENT

PROPOSED EQUIPMENT

TS SHT NO. 97

IDOT CENTRACS

MODEL: Default
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ATLAS
ATLAS TECHNICAL CONSULTANTS, LLC
100 S. WACKER DRIVE, SUITE 400
CHICAGO, IL 60606

USER NAME = nsalehian	DESIGNED - NS	REVISED -	
	DRAWN - NS	REVISED -	
PLOT SCALE = 100.0000 ' / in.	CHECKED - TS	REVISED -	
PLOT DATE = 2/6/2025	DATE - 02/06/2025	REVISED -	

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

CABINET DETAIL SHEET

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

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
326	2024-1052-N,C,SW,FL.	MCHENRY	941	828
		CONTRACT NO. 62X94		
		ILLINOIS	FED. AID PROJECT	

Bench Mark: Cut "X" in sidewalk at the NW corner of IL-120 and IL-47. Elev. 899.10.

Existing Structure: None.

Maintenance of Traffic: IL 47 traffic to be maintained utilizing staged construction.

No Salvage.

CURVE DATA

Prop. Curve ALL-47-P24
P.I. Sta. = 194+76.94
Δ = 11°15'18" (RT)
D = 2°59'59"
R = 1,910.08'
T = 188.21'
L = 375.21'
E = 9.25'
e = N.A.
T.R. = N.A.
S.E. Run = N.A.
P.C. Sta. = 192+88.73
P.T. Sta. = 196+63.94

DESIGN SPECIFICATIONS

2020 AASHTO LRFD Bridge Design Specifications, 9th Edition

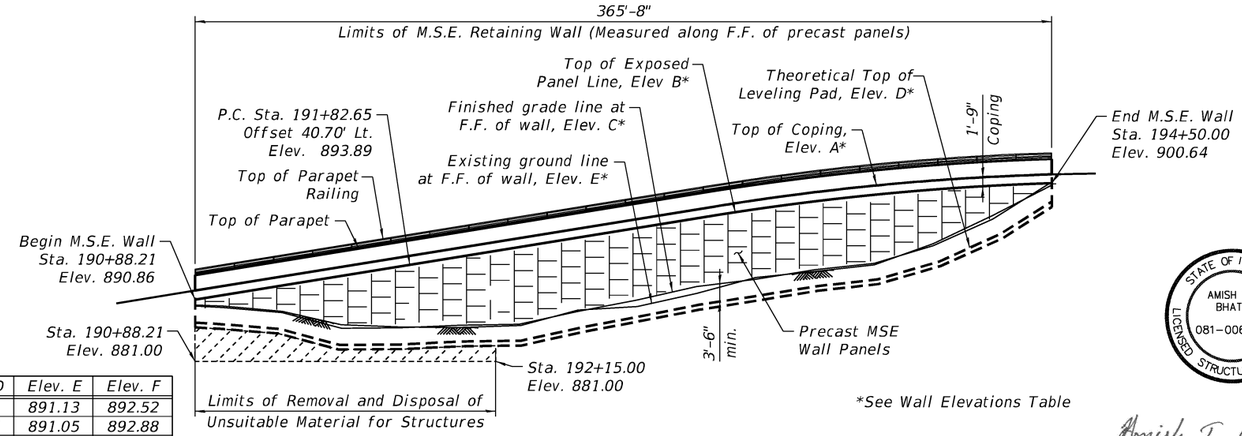
DESIGN STRESSES

FIELD UNITS

f'c = 4,000 psi
fy = 60,000 psi (Reinforcement)

PRECAST UNITS

f'c = 4,500 psi (Precast Panels)



*See Wall Elevations Table

ELEVATION

(Projected View - F.F. of Wall)

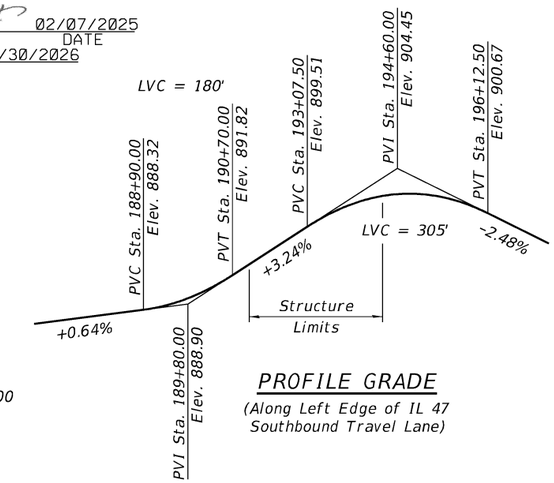
STATE OF ILLINOIS
AMISH T. BHATT
081-006249
LICENSED STRUCTURAL ENGINEER

Amish T. Bhatt 02/07/2025
AMISH T. BHATT DATE
LICENSE EXPIRES 11/30/2026

WALL ELEVATIONS TABLE

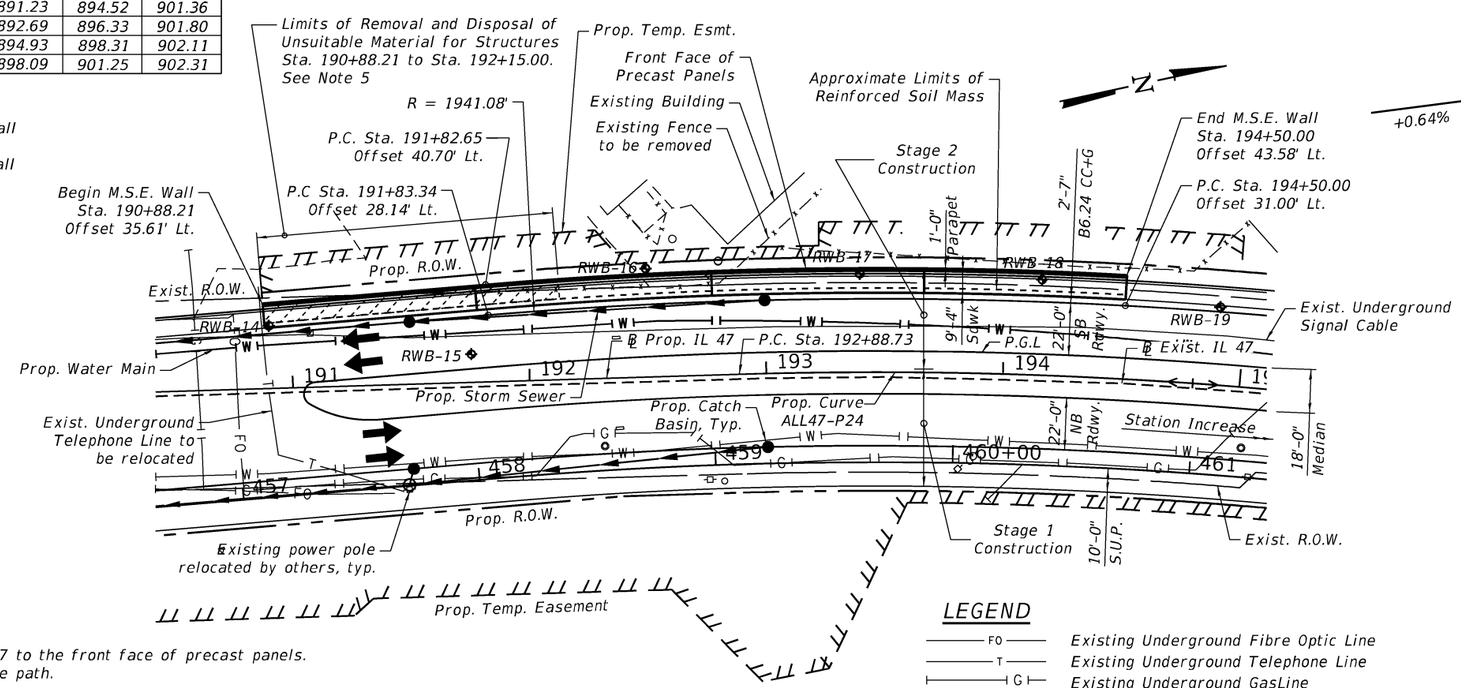
Station	Offset	Elev. A	Elev. B	Elev. C	Elev. D	Elev. E	Elev. F
190+88.21	35.61 Lt.	892.61	890.86	891.06	887.61	891.13	892.52
191+00.00	36.20 Lt.	892.97	891.22	890.97	887.47	891.05	892.88
191+25.00	37.57 Lt.	893.78	892.03	890.56	887.06	890.62	893.69
191+50.00	38.93 Lt.	894.59	892.84	889.23	885.73	889.48	894.50
191+75.00	40.28 Lt.	895.40	893.65	889.26	885.76	889.29	895.31
192+00.00	41.57 Lt.	896.21	894.46	889.50	886.00	889.25	896.12
192+25.00	42.54 Lt.	897.02	895.27	889.57	886.07	889.40	896.93
192+50.00	43.20 Lt.	897.83	896.08	890.67	887.17	890.73	897.74
192+75.00	43.53 Lt.	898.64	896.89	891.62	888.12	891.00	898.55
193+00.00	43.58 Lt.	899.44	897.69	892.59	889.09	892.12	899.36
193+25.00	43.58 Lt.	900.23	898.48	893.37	889.87	893.46	900.14
193+50.00	43.58 Lt.	900.90	899.15	894.18	890.68	893.97	900.81
193+75.00	43.58 Lt.	901.45	899.70	894.73	891.23	894.52	901.36
194+00.00	43.58 Lt.	901.88	900.13	896.19	892.69	896.33	901.80
194+25.00	43.58 Lt.	902.20	900.45	898.43	894.93	898.31	902.11
194+50.00	43.58 Lt.	902.39	900.64	901.53	898.09	901.25	902.31

Elevation A - Top of Coping
Elevation B - Top of Exposed Panel Line
Elevation C - Finished grade line at front face of wall
Elevation D - Theoretical Top of Leveling Pad
Elevation E - Existing grade line at front face of wall
Elevation F - Top of sidewalk

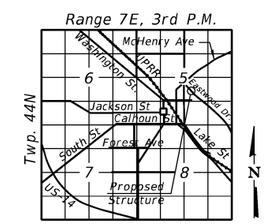


PROFILE GRADE

(Along Left Edge of IL 47 Southbound Travel Lane)



PLAN



LOCATION SKETCH

NOTES:

1. Wall offsets are measured from ℄ Proposed IL 47 to the front face of precast panels.
2. F.F. denotes front face. S.U.P. denotes shared use path.
3. For Wall typical section, see Sheet 2.
4. Existing drainage and utilities in conflict with proposed construction will be abandoned or relocated. See Roadway Plans.
5. The estimated limit for Removal and Disposal of Unsuitable Material is from Sta. 190+88.21 to Sta. 192+15.00. The limits and quantities of removal and replacement shown are based on the boring data and may be modified by the District Geotechnical and Field Engineers for variable subsurface conditions encountered in the field. Before placing Granular Backfill for Structures, the base of excavation shall be underlain with Geotechnical Fabric for Ground Stabilization.

LEGEND

FO	Existing Underground Fibre Optic Line
T	Existing Underground Telephone Line
G	Existing Underground GasLine
W	Existing Underground Water Line
W	Proposed Water Main
	Removal and Disposal of Unsuitable Material for Structures (Backfill with Rockfill)
	Reinforced Soil Mass

GENERAL PLAN & ELEVATION
RETAINING WALL ALONG IL ROUTE 47
F.A.P. 326 SECTION 2024-1052-N,C,SW,FL
MCHENRY COUNTY
STA. 190+88.21 TO STA. 194+50.00
STRUCTURE NO. 056-W025

MODEL: Sheet
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AECOM
303 EAST WACKER DRIVE, SUITE 1400
CHICAGO, IL 60601-5276
PHONE: (312) 373-7700 FAX: (312) 373-6800

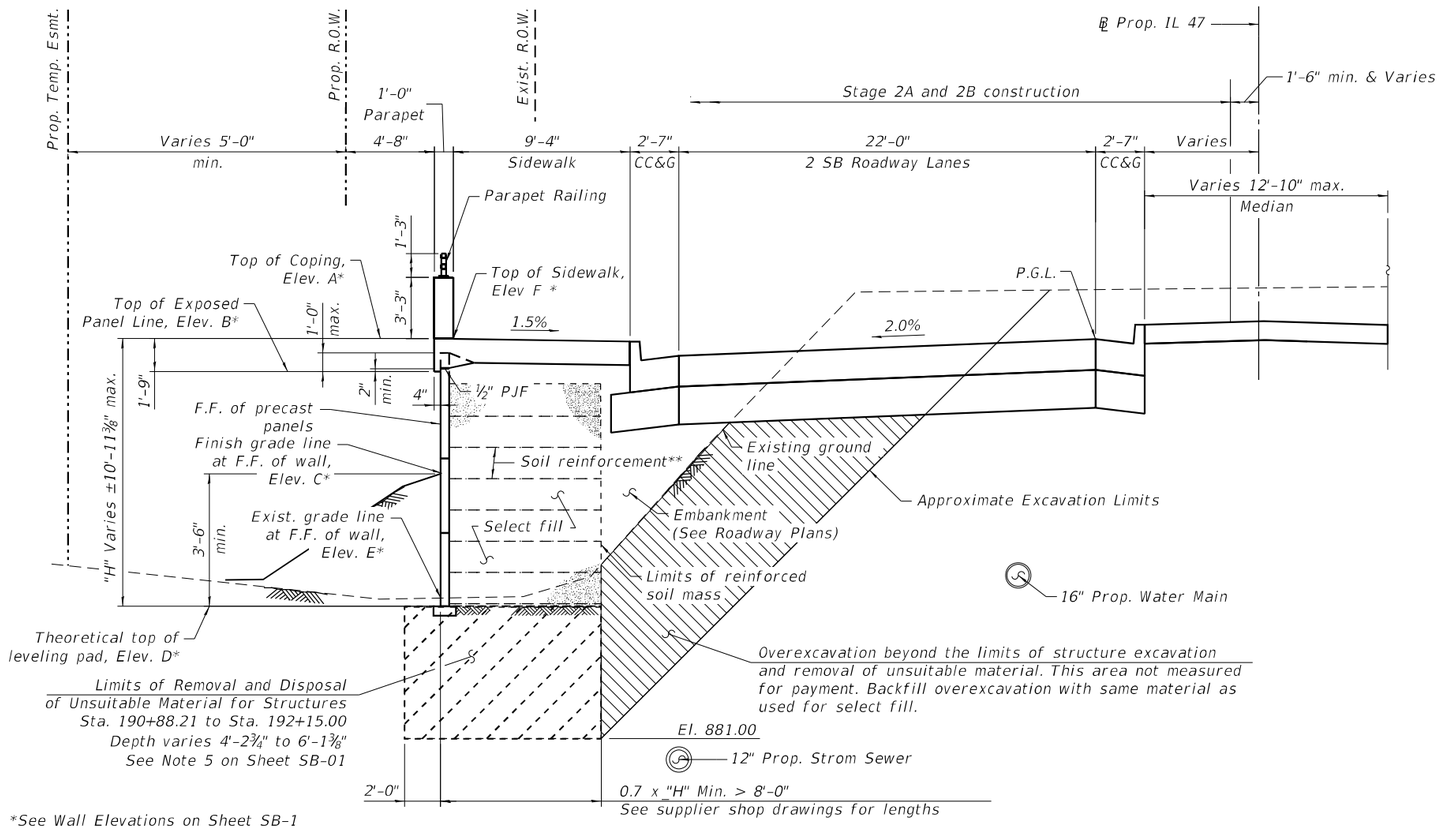
USER NAME = ButtM	DESIGNED - ATM	REVISED -
	CHECKED - ATB	REVISED -
PLOT SCALE = N.T.S.	DRAWN - ATM	REVISED -
PLOT DATE = 02/06/2025	CHECKED - MCC	REVISED -

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

GENERAL PLAN & ELEVATION
STRUCTURE NO. 056-W025

SHEET NO. SB-01 OF SB-06 SHEETS

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
326	2024-1052-N,C,SW,FL	MCHENRY	941	829
		CONTRACT NO. 62X94		
		ILLINOIS FED. AID PROJECT		



*See Wall Elevations on Sheet SB-1

**The M.S.E. Wall supplier's internal stability design shall account for the bearing pressure surcharge of 1.0 and horizontal sliding force of 0.50 kips/ft of wall. The railing posts are to be installed concurrently with the M.S.E. Wall.

TYPICAL WALL SECTION

(Looking Upstation)

INDEX OF SHEETS

STATION 190+88.21 TO 194+50.00
BUILT 20__ BY
STATE OF ILLINOIS
SECTION 2024-1052-N,C,SW,FL
STRUCTURE NO. 056-W025

NAME PLATE

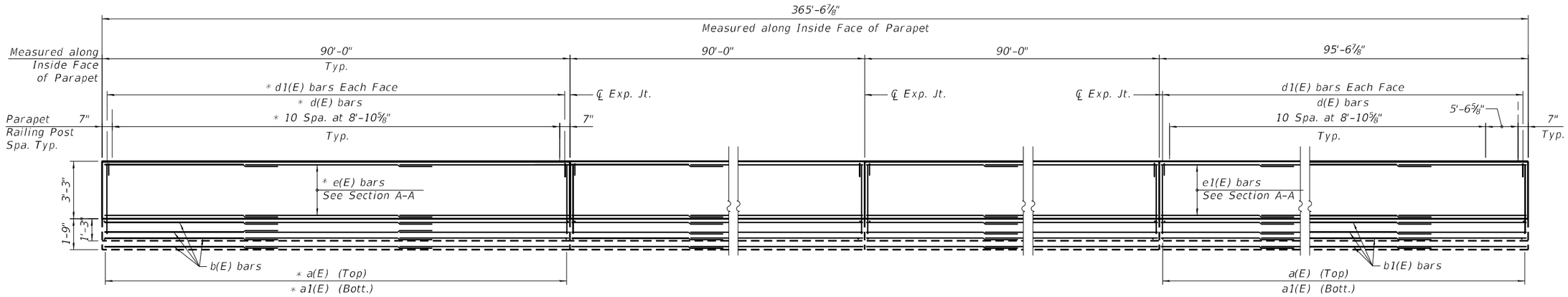
See Std. 515001

BILL OF MATERIAL

ITEM	UNIT	TOTAL
Granular Backfill For Structures	Cu Yd	248
Structure Excavation	Cu Yd	462
Removal And Disposal Of Unsuitable Material For Structures	Cu Yd	248
Name Plates	Each	1
Mechanically Stabilized Earth Retaining Wall	Sq Ft	2682
Parapet Railing	Foot	365
Geotechnical Fabric For Ground Stabilization	Sq Yd	148
Concrete Superstructures	Cu. Yd.	224
Reinforcement Bars, Epoxy Coated	Pound	39190
Protective Coat	Sq. Yd.	552

GENERAL NOTES:

1. Reinforcement bars designated (E) shall be epoxy coated.
2. Bars noted thus, 3x2 - #5 indicates 3 lines of bars with 2 lengths per line.
3. Protective coast shall be applied to the top of sidewalk slab and inside & top face of the parapet.
4. M.S.E. supplier to design load transfer system to accomodate drainage structures.
5. The Contractor shall field verify location of existing utilities prior to construction. The Contractor shall take precautions not to damage existing utilities. Any such damage shall be repaired by the Contractor at no additional cost to the Department.
6. The Contractor shall excercise caution during the construction to make certain that construction activities will not have detrimental effects on the adjacent buildings, utilities etc. Any such damage shall be repaired by the Contractor at no additional cost to the Department.

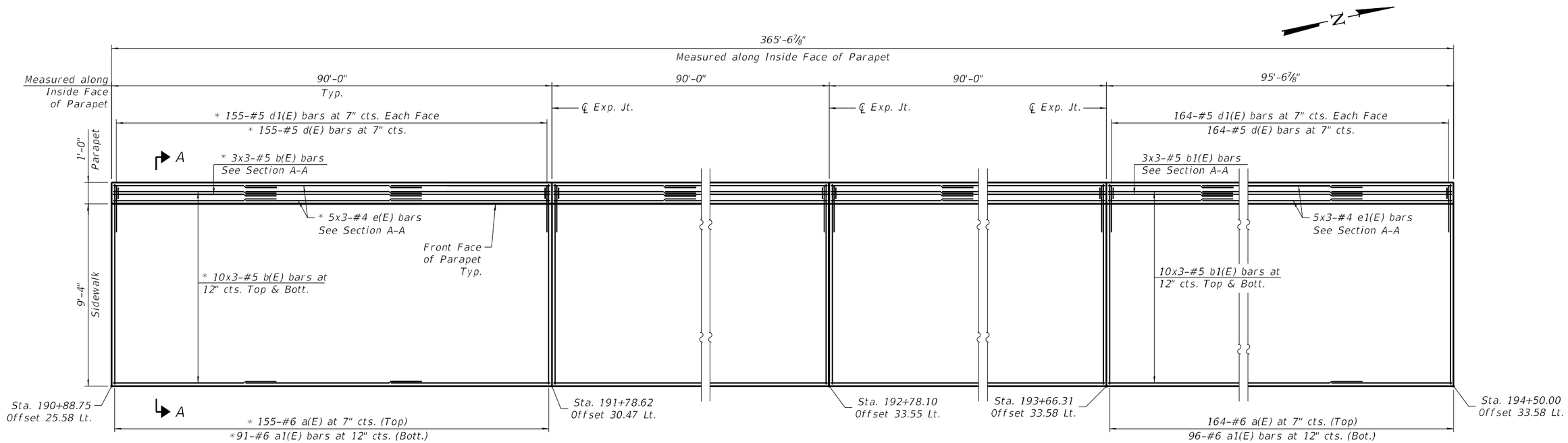


INSIDE PARAPET ELEVATION

* Typ. Btwn. Exp. Jt. U.N.O.

MIN. LAP LENGTH

#5 bar: 3'-6"
#4 bar: 2'-8"



ANCHOR SLAB PLAN

(MSE Wall not shown for clarity)

NOTES:

1. For Section A-A & Bill of Material, See Sheet SB-02B

MODEL: Sheet
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AECOM
303 EAST WACKER DRIVE, SUITE 1400
CHICAGO, IL 60601-5276
PHONE: (312) 373-7700 FAX: (312) 373-6800

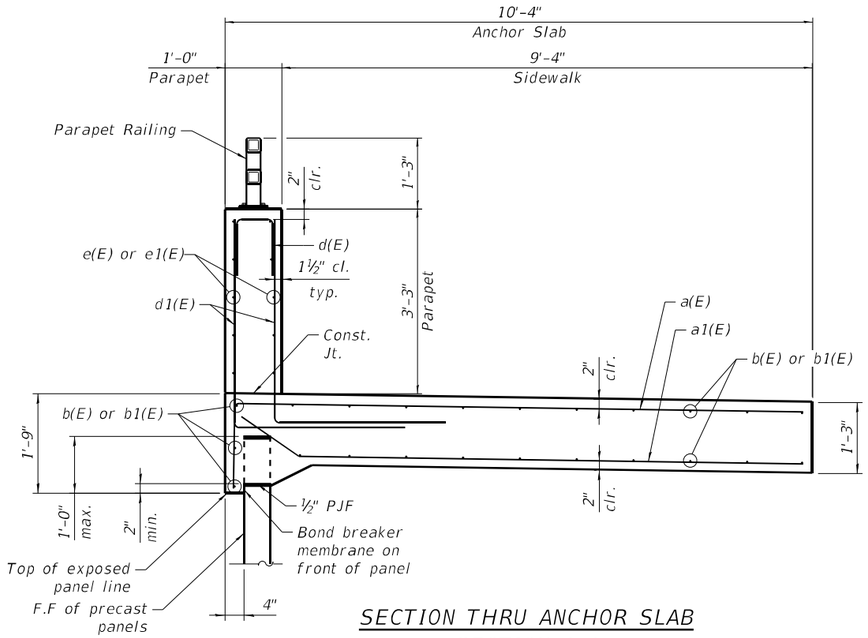
USER NAME = ButtM	DESIGNED - MB	REVISED -	
	CHECKED - ATB	REVISED -	
PLOT SCALE = N.T.S.	DRAWN - MB	REVISED -	
PLOT DATE = 02/06/2025	CHECKED - ATB	REVISED -	

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

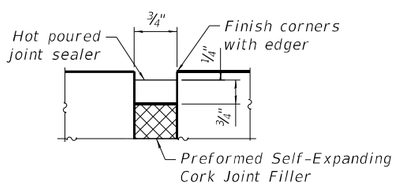
ANCHOR SLAB DETAIL I
STRUCTURE NO. 056-W025

SHEET NO. SB-02A OF SB-06 SHEETS

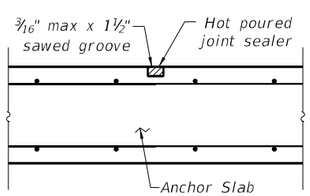
F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
326	2024-1052-N,C,SW,FL	MCHENRY	941	830A
		CONTRACT NO. 62X94		
		ILLINOIS	FED. AID PROJECT	



SECTION THRU ANCHOR SLAB
SECTION A-A

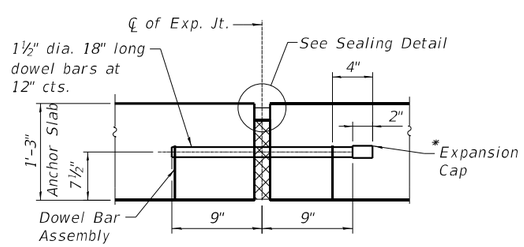


SEALING DETAIL



TRANSVERSE CONTRACTION JOINT

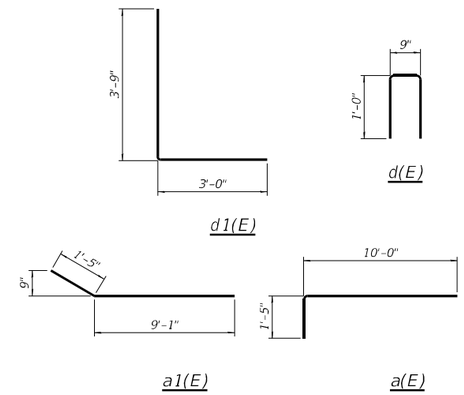
See Article 420.05 & 420.12 of the Standard Specifications



ANCHOR SLAB TO ANCHOR SLAB
TRANSVERSE EXPANSION JOINT

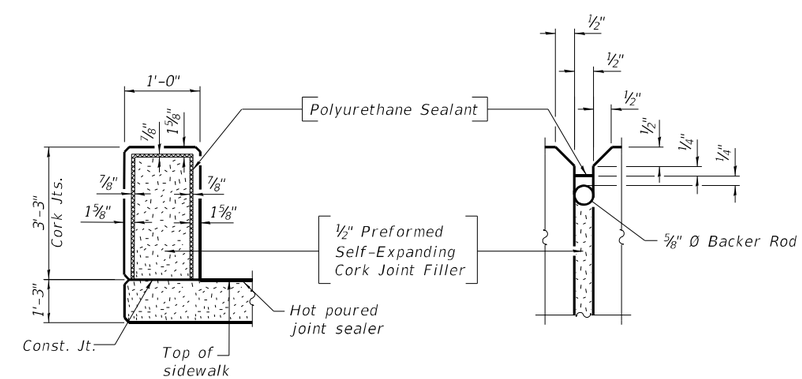
(Expansion Joint filler, sealer, Dowel Bars, Dowel Bar Assembly, and Expansion Caps included in cost of Concrete Superstructure)

* Expansion Caps shall be installed on the exposed end of each dowel bar once header has been removed and the joint filler material has been installed.



BILL OF MATERIAL

Bar	No.	Size	Length	Shape
a(E)	629	#6	11'-5"	
a1(E)	369	#6	10'-6"	
b(E)	207	#5	32'-3"	
b1(E)	69	#5	34'-1"	
d(E)	629	#5	2'-9"	
d1(E)	1258	#5	6'-9"	
e(E)	90	#4	31'-8"	
e1(E)	30	#4	33'-8"	
Concrete Superstructure			Cu. Yd.	224
Reinforcement Bars, Epoxy Coated			Pound	39,190
Protective Coat			Sq. Yd.	552



PARAPET JOINT DETAILS

Notes:
The Polyurethane Sealant shall be according to Article 1050.04 of the Std. Spec. and the color shall be gray.

MODEL: Sheet
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AECOM
303 EAST WACKER DRIVE, SUITE 1400
CHICAGO, IL 60601-5276
PHONE: (312) 373-7700 FAX: (312) 373-6800

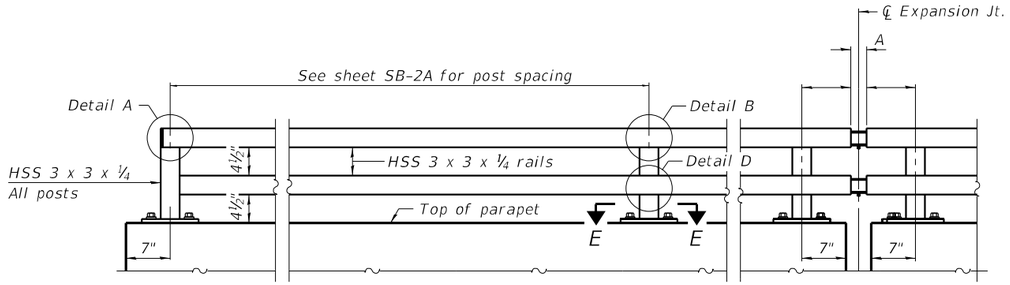
USER NAME = ButtM	DESIGNED - MB	REVISED -	
	CHECKED - ATB	REVISED -	
PLOT SCALE = N.T.S.	DRAWN - MB	REVISED -	
PLOT DATE = 02/06/2025	CHECKED - ATB	REVISED -	

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

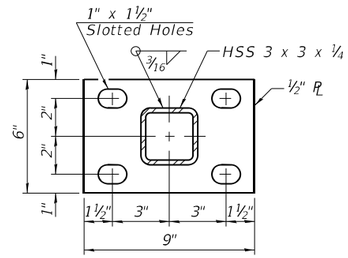
ANCHOR SLAB DETAIL II
STRUCTURE NO. 056-W025

SHEET NO. SB-02B OF SB-06 SHEETS

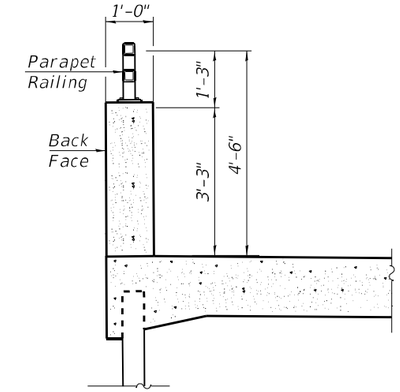
F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
326	2024-1052-N,C,SW,FL	MCHENRY	941	830B
		CONTRACT NO. 62X94		
		ILLINOIS FED. AID PROJECT		



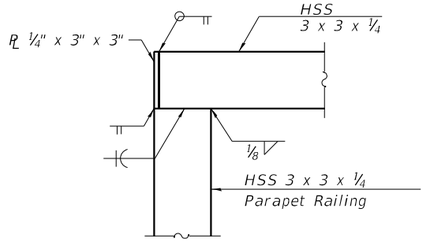
ELEVATION PARAPET RAILING
(Inside face)



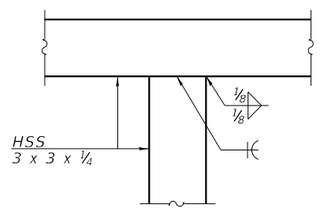
SECTION E-E



SECTION THRU ANCHOR SLAB



DETAIL A



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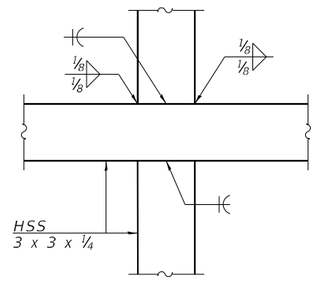

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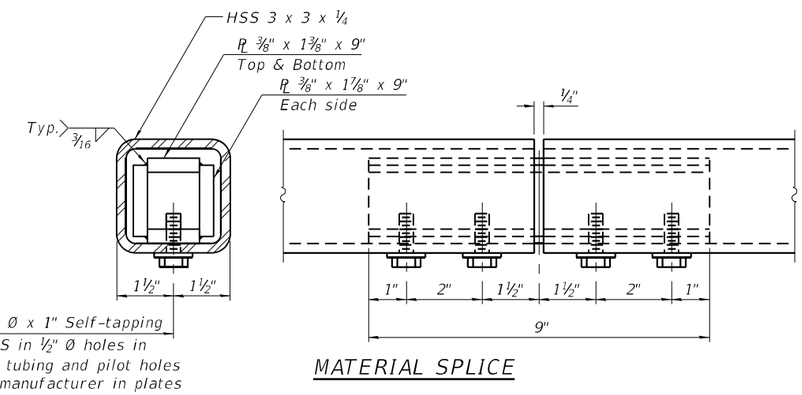
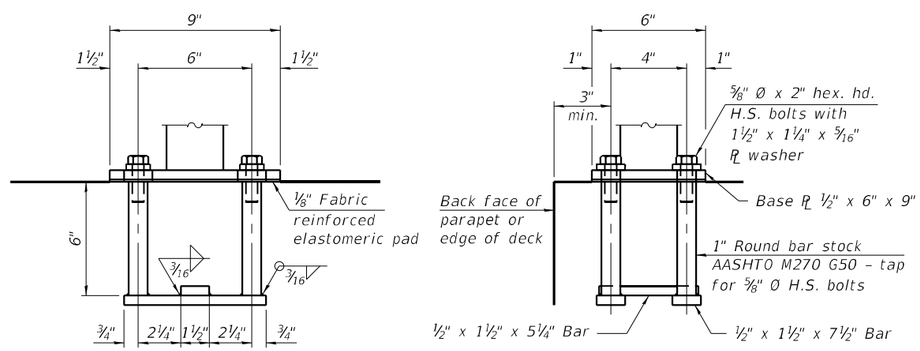
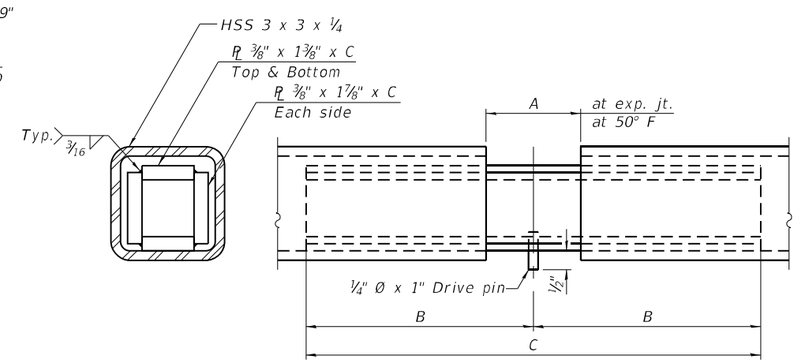


MATERIAL SPLICE



ANCHORAGE ASSEMBLY

In lieu of the cast-in-place anchor device shown, the Contractor has the option of drilling and setting ⅝" Ø fully threaded anchor rods with the same plate washers as specified above and heavy hex lock nuts according to Article 509.06 of the Standard Specifications. Embedment shall be according to the manufacturer's specifications.



EXPANSION SPLICE

Notes:

1. Place reinforcement bars to miss anchor rod locations.
2. All HSS tubing used for the Parapet Railing shall be CVN tested according to Article 1006.34(b) of the Standard Specifications.
3. All HSS tubing used for the Parapet Railing shall be ASTM A500 grade C.
4. All base plates used for the Parapet Railing shall be AASHTO M270 grade 50.
5. All heavy hex nuts shall be according to ASTM A 563 grade DH.
6. All fully threaded anchor rods shall be ASTM F1554 grade 105.
7. The post base plate shall be fastened to the curb snug tight and given an additional ⅛" turn.
8. Rail splice inserts may be built out of bent plates of the same thicknesses and outside geometry limits as the 4 plate rail splice inserts shown.
9. All steel rail elements shall be galvanized according to Article 509.05 of the Standard Specifications.
10. See sheet SB-2B for dimensions of concrete openings at expansion joints.

TABLE OF DIMENSIONS

Location	T	A	B	C
Over Strip Seal Jt.	≤4"	2½"	1'-2"	2'-4"
Over Finger or Modular Jt.	≤9½"	5½"	1'-7¾"	3'-3½"
Over Finger or Modular Jt.	≤15"	8¼"	2'-1¼"	4'-2½"

T= ; total movement based on total temperature range from -20°F to 120°F along centerline of roadway at expansion joint.

BILL OF MATERIAL

Item	Unit	Quantity
Parapet Railing	Foot	365

AECOM
303 EAST WACKER DRIVE, SUITE 1400
CHICAGO, IL 60601-5276
PHONE: (312) 373-7700 FAX: (312) 373-6800

USER NAME = ButtM	DESIGNED - MB	REVISED -	
	CHECKED - ATB	REVISED -	
PLOT SCALE = N.T.S.	DRAWN - MB	REVISED -	
PLOT DATE = 02/06/2025	CHECKED - ATB	REVISED -	

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

PARAPET RAILING DETAILS
STRUCTURE NO. 056-W025

SHEET NO. SB-03 OF SB-06 SHEETS

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
326	2024-1052-N,C,SW,FL	MCHENRY	941	831
		CONTRACT NO. 62X94		
		ILLINOIS FED. AID PROJECT		

Wang Engineering
wangeng@wangeng.com
1145 N. Main Street
Lombard/IL/60148
Telephone: 6309539928
Fax: 6309539938

BORING LOG RWB-14

WEI Job No.: 1100-15-01

Client: **AECOM**
Project: **IL 47 from US 14 to IL 120**
Location: **McHenry County**

Datum: NAVD 88
Elevation: 892.88 ft
North: 2058208.55 ft
East: 955199.42 ft
Station: 190+90.61
Offset: 26.47 LT

Depth (ft)	SOIL AND ROCK DESCRIPTION	Sample Type	Sample No.	SPT Values (blw/6 in)	Qu (tsf)	Moisture Content (%)
	9-inch thick, black SILTY CLAY LOAM, trace gravel; damp --TOPSOIL-- (892.1)					
	Medium dense, brown and black SILTY LOAM, little gravel; damp --FILL--		1	5 8 9	NP	5
	(889.9) Medium stiff to hard, brown, gray and black SILTY CLAY LOAM, trace gravel; damp --FILL-- --RDR 2--		2	5 3 4	5.17 S	14
	--trace organic matter--		3	3 2 2	0.82 B	21
	(883.6) Medium stiff, black SILTY CLAY LOAM; damp --Buried TOPSOIL--		4	1 1 3	NP	66
	(881.4) Medium stiff, gray SILTY CLAY LOAM, trace gravel and organic matter; damp		5	2 2 2	0.66 B	21
	(879.9) Loose to dense, gray LOAM to SILTY LOAM, little gravel; damp to wet --RDR 2-3--		6	2 2 3	NP	12
			7	2 2 4	NP	9
			8	3 5 5	NP	9

Depth (ft)	SOIL AND ROCK DESCRIPTION	Sample Type	Sample No.	SPT Values (blw/6 in)	Qu (tsf)	Moisture Content (%)
	--rig chatter--		9	24 5 5	NP	8
			10	4 5 5	NP	9
			11	5 5 6	NP	9
			12	4 4 5	NP	9
			13	8 13 10	NP	9
			14	6 7 8	NP	9
			15	8 14 15	NP	8
	(852.9) Boring terminated at 40.00 ft		16	13 18 14	NP	8

GENERAL NOTES

Begin Drilling: **12-01-2020** Complete Drilling: **12-01-2020**
Drilling Contractor: **Wang Testing Services** Drill Rig: **17D50T [81%]**
Driller: **A&J** Logger: **M. Sadowski** Checked by: **C. Marin**
Drilling Method: **2.25" ID HSA; boring backfilled upon completion**

WATER LEVEL DATA

While Drilling: **20.50 ft**
At Completion of Drilling: **25.00 ft**
Time After Drilling: **NA**
Depth to Water: **NA**

The stratification lines represent the approximate boundary between soil types; the actual transition may be gradual.

WANGENGINC 11001501.GPJ WANGENG.GDT 5/14/21

Wang Engineering
wangeng@wangeng.com
1145 N. Main Street
Lombard/IL/60148
Telephone: 6309539928
Fax: 6309539938

BORING LOG RWB-15

WEI Job No.: 1100-15-01

Client: **AECOM**
Project: **IL 47 from US 14 to IL 120**
Location: **McHenry County**

Datum: NAVD 88
Elevation: 896.67 ft
North: 2058275.73 ft
East: 955145.19 ft
Station: 191+75.71
Offset: 11.92 LT

Depth (ft)	SOIL AND ROCK DESCRIPTION	Sample Type	Sample No.	SPT Values (blw/6 in)	Qu (tsf)	Moisture Content (%)
	14-inch thick ASPHALT --PAVEMENT-- (895.5)					
	Stiff to very stiff, brown SILTY CLAY LOAM, trace gravel; damp --FILL-- --RDR 2--		1	5 5 5	3.00 P	18
			2	2 3 3	2.00 P	19
			3	2 4 3	1.75 P	23
			4	2 3 3	1.50 P	20
	(886.2) Stiff, black SILTY CLAY LOAM, trace organic matter; damp --Buried TOPSOIL--		5	4 5 6	1.50 P	33
	(883.7) Medium stiff, gray SILTY CLAY; damp --RDR 1-- --L_L(%)=45, P_L(%)=17-- --%Gravel=0.1-- --%Sand=0.8-- --%Silt=76.4-- --%Clay=22.7-- --A-7-6 (30)--		6	1 1 2	0.82 B	38
	(881.2) Loose, brown and gray SILTY LOAM; moist to wet --RDR 1--		7	2 2 2	NP	12
	(878.7) Soft to medium stiff, gray LOAM, little gravel; damp --RDR 1-- --L_L(%)=15, P_L(%)=12--		8	3 2 2	< 0.25 P	9

Depth (ft)	SOIL AND ROCK DESCRIPTION	Sample Type	Sample No.	SPT Values (blw/6 in)	Qu (tsf)	Moisture Content (%)
	--%Gravel=14.6-- --%Sand=39.2-- --%Silt=38.7-- --%Clay=7.6-- --A-4 (0)--		9	1 2 4	0.74 B	9
	(873.7) Medium dense to dense, gray LOAM to SILTY LOAM, little to some gravel; damp to wet --RDR 2-3--		10	5 6 6	NP	10
			11	6 6 6	NP	8
			12	7 9 11	NP	9
			13	7 10 15	NP	7
	--rig chatter; possible cobbles--		14	17 25 17	NP	9
			15	11 13 15	NP	8

GENERAL NOTES

Begin Drilling: **11-30-2020** Complete Drilling: **11-30-2020**
Drilling Contractor: **Wang Testing Services** Drill Rig: **17D50T [81%]**
Driller: **R&J** Logger: **F. Bozga** Checked by: **C. Marin**
Drilling Method: **3.25" ID HSA; boring backfilled upon completion**

WATER LEVEL DATA

While Drilling: **17.00 ft**
At Completion of Drilling: **DRY**
Time After Drilling: **NA**
Depth to Water: **NA**

The stratification lines represent the approximate boundary between soil types; the actual transition may be gradual.

WANGENGINC 11001501.GPJ WANGENG.GDT 5/14/21

MODEL: Sheet
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AECOM
303 EAST WACKER DRIVE, SUITE 1400
CHICAGO, IL 60601-5276
PHONE: (312) 373-7700 FAX: (312) 373-6800

USER NAME = ButtM	DESIGNED -	REVISED -	
	CHECKED -	REVISED -	
PLOT SCALE = N.T.S.	DRAWN - ATM	REVISED -	
PLOT DATE = 02/06/2025	CHECKED - MCC	REVISED -	

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

SOIL BORING LOGS I
STRUCTURE NO. 056-W025

SHEET NO. SB-04 OF SB-06 SHEETS

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
326	2024-1052-N,C,SW,FL	MCHENRY	941	832
		CONTRACT NO. 62X94		
		ILLINOIS FED. AID PROJECT		

Wang Engineering
wangeng@wangeng.com
1145 N. Main Street
Lombard/IL/60148
Telephone: 6309539928
Fax: 6309539938

BORING LOG RWB-15

WEI Job No.: 1100-15-01

Client: AECOM
Project: IL 47 from US 14 to IL 120
Location: McHenry County

Datum: NAVD 88
Elevation: 896.67 ft
North: 2058275.73 ft
East: 955145.19 ft
Station: 191+75.71
Offset: 11.92 LT

Profile	Elevation (ft)	SOIL AND ROCK DESCRIPTION	Depth (ft)	Sample Type / recovery	Sample No.	SPT Values (blw/6 in)	Qu (tsf)	Moisture Content (%)
		--rig chatter; possible cobbles--						
	851.7		45		16	9 10 13	NP	8
		Boring terminated at 45.00 ft						
			50					
			55					
			60					

GENERAL NOTES

Begin Drilling: 11-30-2020 Complete Drilling: 11-30-2020
Drilling Contractor: Wang Testing Services Drill Rig: 17D50T [81%]
Driller: R&J Logger: F. Bozga Checked by: C. Marin
Drilling Method: 3.25" ID HSA; boring backfilled upon completion

WATER LEVEL DATA

While Drilling: 17.00 ft
At Completion of Drilling: DRY
Time After Drilling: NA
Depth to Water: NA

The stratification lines represent the approximate boundary between soil types; the actual transition may be gradual.

Wang Engineering
wangeng@wangeng.com
1145 N. Main Street
Lombard/IL/60148
Telephone: 6309539928
Fax: 6309539938

BORING LOG RWB-16

WEI Job No.: 1100-15-01

Client: AECOM
Project: IL 47 from US 14 to IL 120
Location: McHenry County

Datum: NAVD 88
Elevation: 890.77 ft
North: 2058299.62 ft
East: 955066.78 ft
Station: 192+50.33
Offset: 45.84 LT

Profile	Elevation (ft)	SOIL AND ROCK DESCRIPTION	Depth (ft)	Sample Type / recovery	Sample No.	SPT Values (blw/6 in)	Qu (tsf)	Moisture Content (%)
		Stiff to very stiff, black and brown, SILTY CLAY LOAM, trace gravel; dry to damp --FILL-- --RDR 2 to 3-- --little organic matter-- --wood fragments--			1	5 3 3	1.50 P	13
			5		2	2 3 3	2.50 P	16
	885.5	Stiff, brown CLAY LOAM, trace gravel; damp --RDR 2--			3	4 4 4	1.07 B	11
	883.0	Medium dense, gray SANDY LOAM to LOAM, little gravel; damp to moist --RDR 2 to 3--	10		4	3 5 6	NP	11
					5	5 8 8	NP	9
		--L_L(%)=NP, P_L(%)=NP-- --%Gravel=12.9-- --%Sand=48.8-- --%Silt=37.4-- --%Clay=0.9-- --A-4 (0)-- --wet spoon--	15		6	6 9 9	NP	9
					7	5 7 7	NP	10
			20		8	6 5 6	NP	10
			25		9	8 8 11	NP	10
					10	5 7 7	NP	9
					11	6 8 8	NP	8
	861.5	Medium dense, gray, medium SAND; saturated --RDR 2--	30		12	5 5 5	NP	16
					13	3 6 8	NP	15
	857.8	Medium dense, gray LOAM to SANDY LOAM, little gravel; moist --RDR 2--			14	6 7 8	NP	10
	855.8	Boring terminated at 35.00 ft	35					
			40					

GENERAL NOTES

Begin Drilling: 12-02-2020 Complete Drilling: 12-02-2020
Drilling Contractor: Wang Testing Services Drill Rig: GEOPROBE
Driller: A&J Logger: M. Sadowski Checked by: C. Marin
Drilling Method: 2.25" ID HSA; boring backfilled upon completion

WATER LEVEL DATA

While Drilling: 29.25 ft
At Completion of Drilling: 29.25 ft
Time After Drilling: NA
Depth to Water: NA

The stratification lines represent the approximate boundary between soil types; the actual transition may be gradual.

AECOM
303 EAST WACKER DRIVE, SUITE 1400
CHICAGO, IL 60601-5276
PHONE: (312) 373-7700 FAX: (312) 373-6800

USER NAME = ButtM	DESIGNED -	REVISED -	
	CHECKED -	REVISED -	
PLOT SCALE = N.T.S.	DRAWN - ATM	REVISED -	
PLOT DATE = 02/06/2025	CHECKED - MCC	REVISED -	

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

SOIL BORING LOGS II
STRUCTURE NO. 056-W025

SHEET NO. SB-05 OF SB-06 SHEETS

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
326	2024-1052-N,C,SW,FL	MCHENRY	941	833

CONTRACT NO. 62X94

ILLINOIS | FED. AID PROJECT

Wang Engineering
wangeng@wangeng.com
1145 N. Main Street
Lombard/IL/60148
Telephone: 6309539928
Fax: 6309539938

BORING LOG RWB-17

WEI Job No.: 1100-15-01

Client: AECOM
Project: IL 47 from US 14 to IL 120
Location: McHenry County

Datum: NAVD 88
Elevation: 893.78 ft
North: 2058363.07 ft
East: 955002.22 ft
Station: 193+39.61
Offset: 41.62 LT

Elevation (ft)	SOIL AND ROCK DESCRIPTION	Depth (ft)	Sample Type / recovery	Sample No.	SPT Values (blw/6 in)	Qu (tsf)	Moisture Content (%)
893.1	8-inch thick, black SILTY CLAY LOAM --TOPSOIL--						
	Stiff, brown SILTY CLAY LOAM, trace gravel; damp --RDR 2--			1	2 3 4	1.97 B	19
890.8	Medium dense, brown SILTY LOAM, little gravel; damp --RDR 2--	5		2	5 6 8	NP	9
				3	6 8 13	NP	8
885.8	Very dense, black and gray, fine SAND, little gravel; damp --RDR 2-3-- --hard drilling--	10		4	50/6"	NP	3
883.8	medium dense, gray and brown LOAM to SILTY LOAM, little to some gravel; damp to moist --RDR 2-3--			5	9 14 14	NP	10
		15		6	10 9 6	NP	9
				7	11 17 14	NP	10
875.8	Medium dense, gray SANDY LOAM, trace gravel; moist --RDR 2--	20		8	5 8 11	NP	10
873.3	Medium dense, gray LOAM to SILTY LOAM, little to some gravel; damp to moist --RDR 2-- --L_L(%)=NP, P_L(%)=NP-- --%Gravel=15.4-- --%Sand=41.8-- --%Silt=40.7-- --%Clay=2.1-- --A-4 (0)--	25		9	7 8 9	NP	9
				10	7 9 10	NP	9
				11	6 9 6	NP	9
		30		12	7 8 10	NP	9
				13	9 10 11	NP	9
		35		14	8 8 10	NP	9
858.8	Boring terminated at 35.00 ft						

GENERAL NOTES

Begin Drilling: 12-01-2020 Complete Drilling: 12-01-2020
Drilling Contractor: Wang Testing Services Drill Rig: 17D50T [81%]
Driller: A&J Logger: M. Sadowski Checked by: C. Marin
Drilling Method: 2.25" ID HSA; boring backfilled upon completion

WATER LEVEL DATA

While Drilling: DRY
At Completion of Drilling: DRY
Time After Drilling: NA
Depth to Water: NA

The stratification lines represent the approximate boundary between soil types; the actual transition may be gradual.

Wang Engineering
wangeng@wangeng.com
1145 N. Main Street
Lombard/IL/60148
Telephone: 6309539928
Fax: 6309539938

BORING LOG RWB-18

WEI Job No.: 1100-15-01

Client: AECOM
Project: IL 47 from US 14 to IL 120
Location: McHenry County

Datum: NAVD 88
Elevation: 899.63 ft
North: 2058417.51 ft
East: 954947.70 ft
Station: 194+15.04
Offset: 40.39 LT

Elevation (ft)	SOIL AND ROCK DESCRIPTION	Depth (ft)	Sample Type / recovery	Sample No.	SPT Values (blw/6 in)	Qu (tsf)	Moisture Content (%)
899.3	4-inch thick, black SILTY CLAY LOAM --TOPSOIL--						
	Stiff, brown SILTY CLAY LOAM, trace gravel and organic matter; damp --RDR 2--			1	3 3 8	1.80 B	19
897.6	Medium dense, brown LOAM, trace to little gravel; damp --RDR 2-3--	5		2	8 11 10	NP	7
				3	8 10 9	NP	11
		10		4	7 8 6	NP	14
				5	7 12 11	NP	8
886.6	Very stiff, brown and gray CLAY LOAM, trace gravel; damp --RDR 2--	15		6	3 5 7	2.62 B	11
884.1	Medium dense, brown to gray LOAM, little gravel; damp to wet --RDR 2-3--			7	10 11 10	NP	9
		20		8	5 10 7	NP	10
		25		9	7 7 6	NP	9
				10	2 5 7	NP	10
				11	4 4 6	NP	9
		30		12	5 7 7	NP	9
	--wet spoon recovery--			13	7 6 7	NP	10
		35		14	6 7 5	NP	9
864.6	Boring terminated at 35.00 ft						

GENERAL NOTES

Begin Drilling: 11-30-2020 Complete Drilling: 11-30-2020
Drilling Contractor: Wang Testing Services Drill Rig: 20D50A (87%)
Driller: A&J Logger: M. Sadowski Checked by: C. Marin
Drilling Method: 2.25" ID HSA; boring backfilled upon completion

WATER LEVEL DATA

While Drilling: 30.50 ft
At Completion of Drilling: DRY
Time After Drilling: NA
Depth to Water: NA

The stratification lines represent the approximate boundary between soil types; the actual transition may be gradual.

AECOM
303 EAST WACKER DRIVE, SUITE 1400
CHICAGO, IL 60601-5276
PHONE: (312) 373-7700 FAX: (312) 373-6800

USER NAME = ButtM	DESIGNED -	REVISED -
	CHECKED -	REVISED -
PLOT SCALE = N.T.S.	DRAWN - ATM	REVISED -
PLOT DATE = 02/06/2025	CHECKED - MCC	REVISED -

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

SOIL BORING LOGS III
STRUCTURE NO. 056-W025

SHEET NO. SB-06 OF SB-06 SHEETS

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
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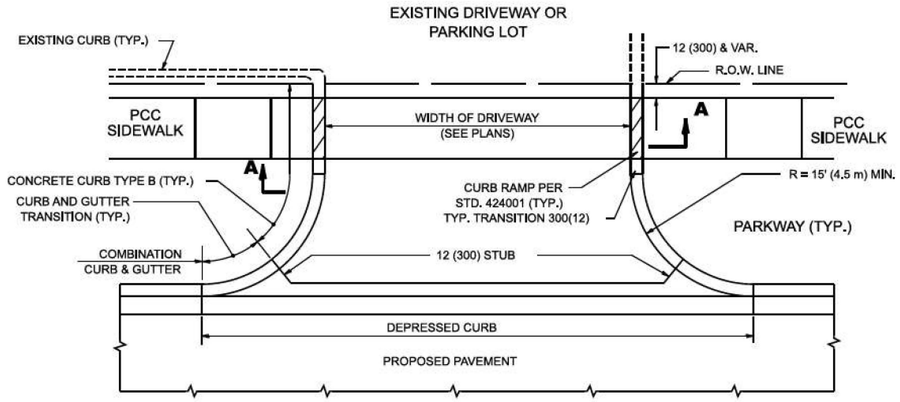
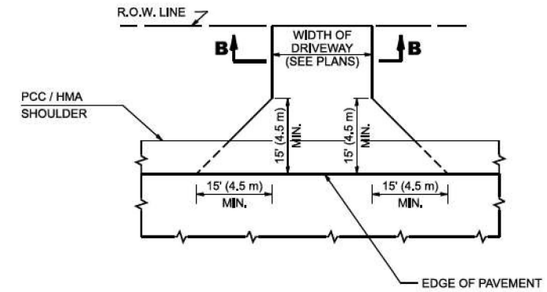
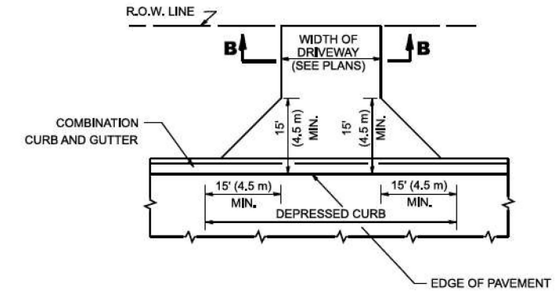
		CONTRACT NO. 62X94		
		ILLINOIS FED. AID PROJECT		



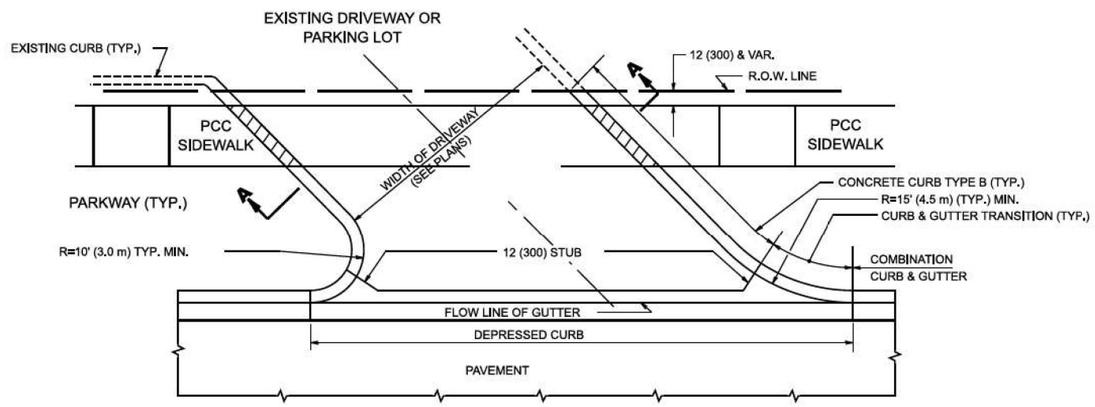
WITH CONCRETE CURB, TYPE B



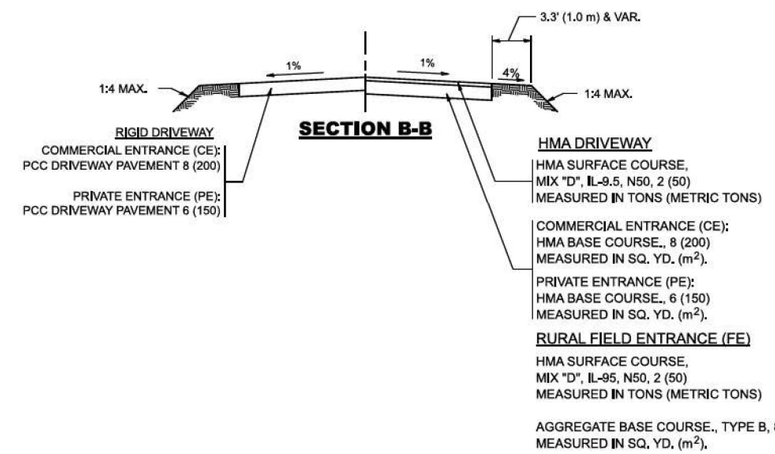
ADJACENT TO PCC / HMA SHOULDER

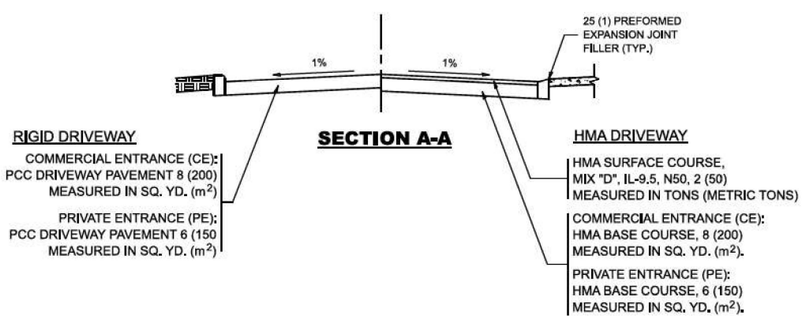


ADJACENT TO CURB AND GUTTER



WITH CONCRETE CURB, TYPE B





GENERAL NOTES

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

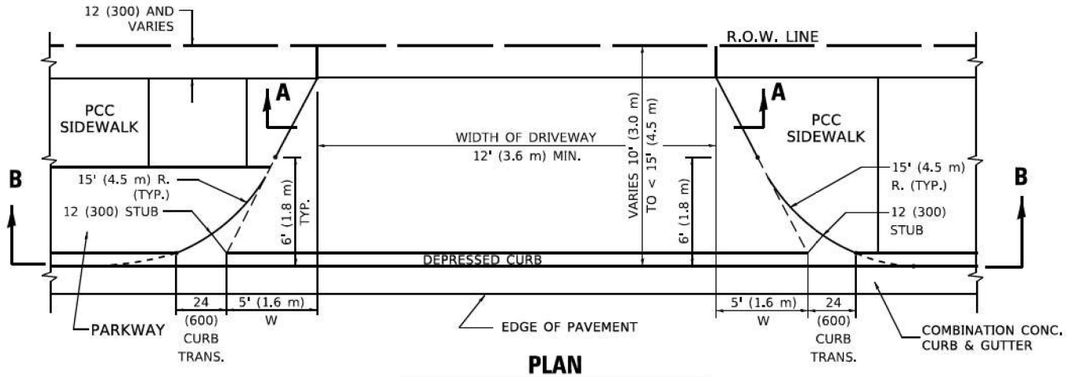
2. COMMERCIAL DRIVEWAYS SHALL BE CONSTRUCTED WITH CONCRETE CURB, TYPE B RETURNS EXCEPT WHEN THE SIDEWALK EDGE IS 4 FEET (1.2 METERS) OR LESS FROM THE BACK OF CURB, CONSTRUCT A FLARE DRIVEWAY WITHOUT CURB.

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

MODEL: Plan Single [Sheet]
FILE NAME: Z:_IDOTCAD_ORD Folder Master_Master Files\IDOTCAD_CONNECT\Configuration\Organization-Civil\IDOT_Standards\Dgn\Sheet Seeds\CIM_Named_Boundary_SheetSeeds.dgnlib

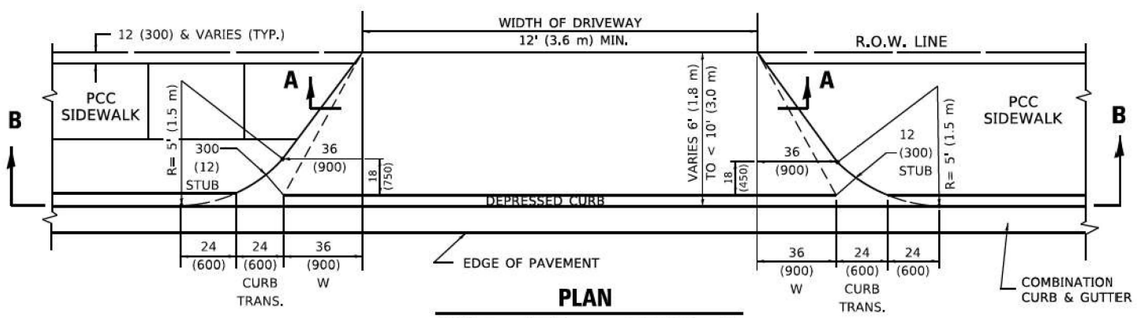
USER NAME = eric.t.thomas	DESIGNED - R. SHAH	REVISED - R. BORO 06-11-08	STATE OF ILLINOIS DEPARTMENT OF TRANSPORTATION	DRIVEWAY DETAILS - DISTANCE BETWEEN R.O.W. AND FACE OF CURB & EDGE OF SHOULDER >15'(4.5m)	
	DRAWN -	REVISED - R. BORO 09-06-11			
PLOT SCALE = 0.08333317 ' / in.	CHECKED -	REVISED - K. SMITH 08-28-19			
PLOT DATE = 8/30/2023	DATE - 11-04-95	REVISED - K. SMITH 11-18-22		SCALE: NONE	SHEET 1 OF 1 SHEETS STA. TO STA.

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
326	(104 & 105)WRS-9(13)	MCHENRY	941	838
BD400-01 (BD-01)		CONTRACT NO. 60X17		
		ILLINOIS FED. AID PROJECT		



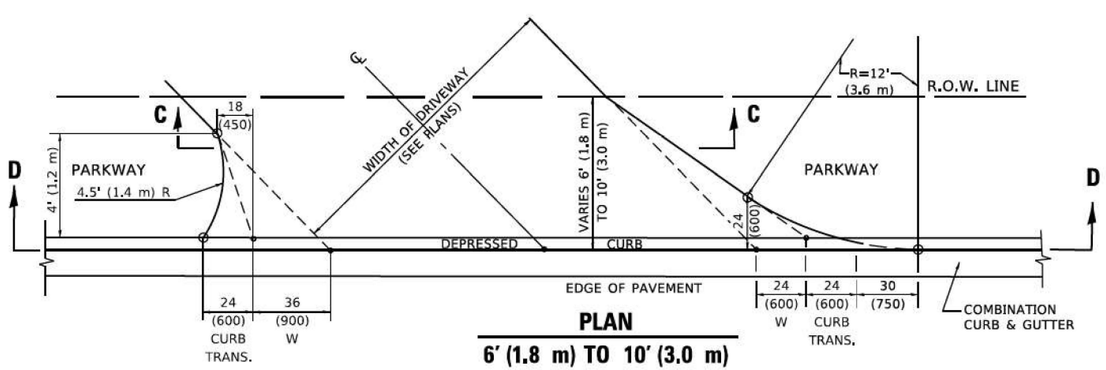
PLAN

10' (3.0 m) TO < 15' (4.5 m)



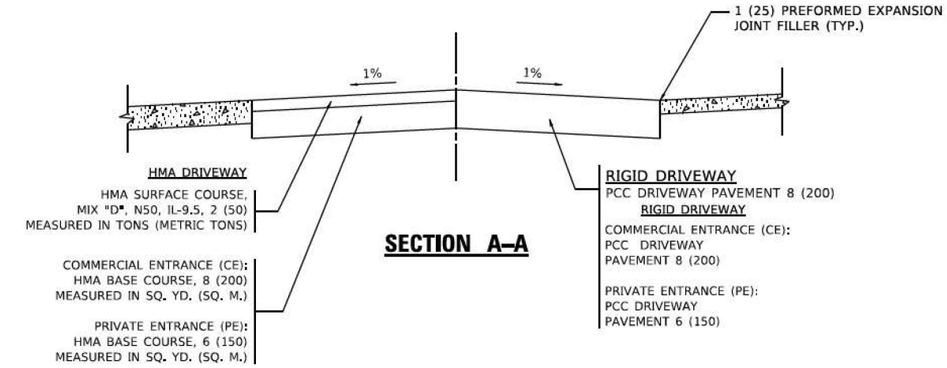
PLAN

6' (1.8 m) TO < 10' (3.0 m)

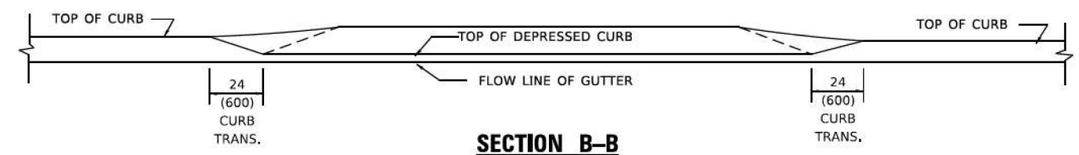


PLAN

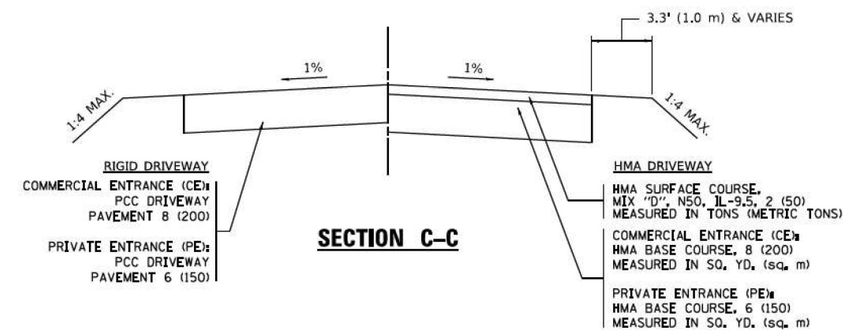
6' (1.8 m) TO 10' (3.0 m)



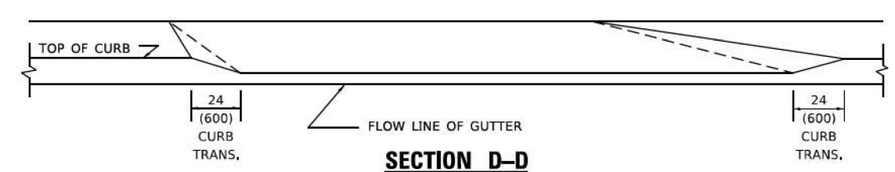
SECTION A–A



SECTION B–B



SECTION C–C



SECTION D–D

GENERAL NOTES

1. DRIVEWAY SLOPES, LOCATIONS, & GEOMETRIC LAYOUT SHALL BE IN ACCORDANCE WITH THE LATEST EDITION OF THE "HANDBOOK FOR POLICY ON PERMITS FOR ACCESS DRIVEWAYS TO STATE HIGHWAYS". FOR FURTHER LAYOUT REQUIREMENTS, REFER TO ILLUSTRATION 10 IN THE PERMIT HANDBOOK. WHERE SIDEWALKS EXIST, DRIVEWAYS SHALL BE REPLACED WITH RIGID PAVEMENT. WHERE NO SIDEWALKS EXIST, DRIVEWAYS SHALL BE REPLACED IN KIND. SIDEWALK CROSS SLOPE THRU DRIVEWAY AREA TO BE A MAXIMUM OF 1:50.
2. WHEN THE DISTANCE BETWEEN R.O.W. AND THE BACK OF CURB IS EQUAL TO OR LESS THAN 8' (2.4 m), THE PCC SIDEWALK SHALL EXTEND TO THE BACK OF CURB.
3. "W" VARIES FROM 36 (900) TO 5' (1.5 m) PROPORTIONAL TO THE LENGTH (L), FROM 6' (1.8 m) TO 10' (3 m).

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

MODEL: Default
FILE NAME: pw:\\illdot-pw.bentley.com:PWIDOT\Documents\IDOT Offices\District 2\2x34\CADData\CADSheets\bd02.dgn

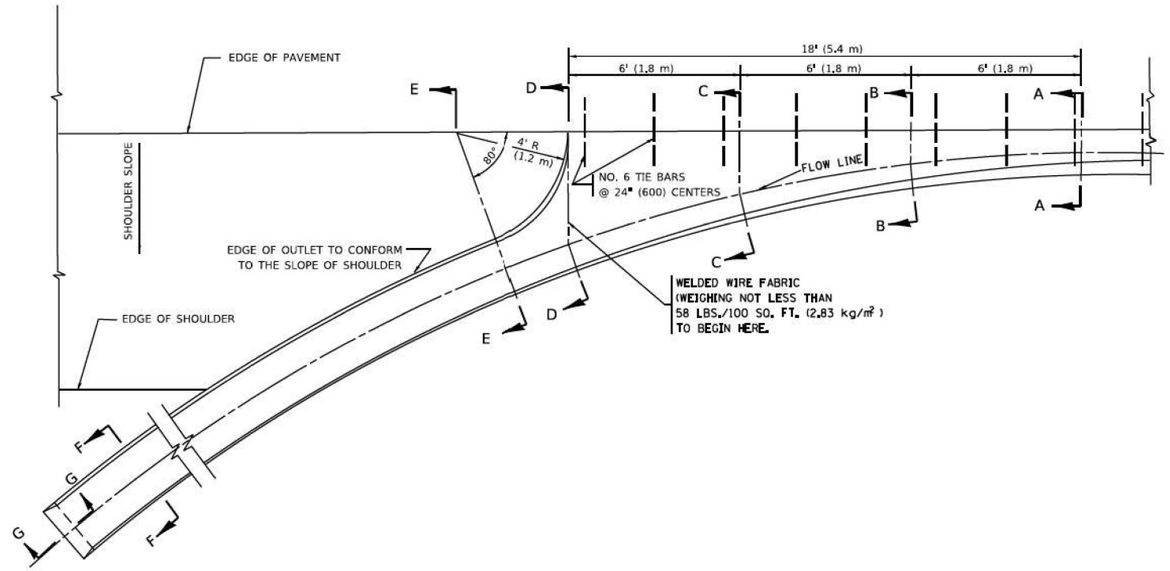
USER NAME = Lawrence.DeManche	DESIGNED - R. SHAH	REVISED - R. BORO 01-01-07	
	DRAWN -	REVISED - R. BORO 09-06-11	
PLOT SCALE = 100.0000 ' / in.	CHECKED -	REVISED - K. SMITH 08-27-19	
PLOT DATE = 11/18/2022	DATE - 11-06-95	REVISED - K. SMITH 11-18-22	

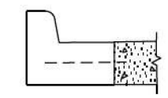
STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

DRIVEWAY DETAILS
DISTANCE BETWEEN ROW AND FACE OF CURB < 15' (4.5m)

SCALE: NONE | SHEET 1 OF 1 SHEETS | STA. TO STA.

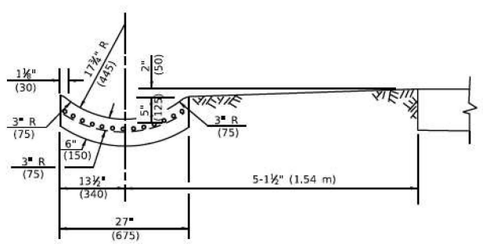
F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
326	(104 & 105)WRS-9(13)	MCHENRY	941	839
	BD400–02 (BD–02)	CONTRACT NO. 60X17		
		ILLINOIS FED. AID PROJECT		



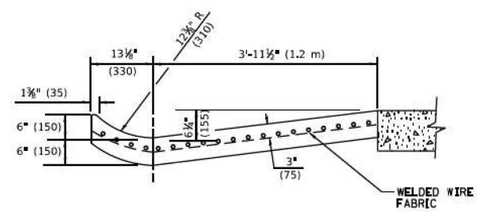


SECTION A–A ✳

✳ DIMENSIONS OF THE CURB & GUTTER AT SECTION A-A ARE SHOWN ON STATE STANDARD 606001.
FOR DETAILS OF OUTLET FOR CONCRETE CURB & GUTTER, TYPE B-6.24 (B-15.60) SEE STATE STANDARD 606006.



SECTION E–E



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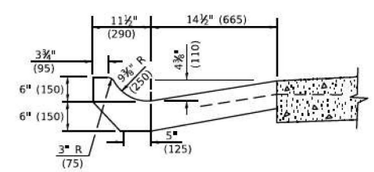
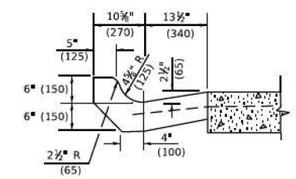
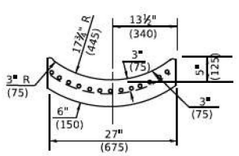


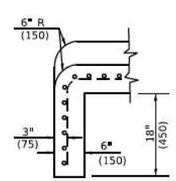
SECTION C–C



SECTION B–B



SECTION F–F



SECTION G–G

GENERAL NOTES

1. GUTTER OUTLET SHALL BE TIED TO THE PAVEMENT IN ACCORDANCE WITH DETAILS FOR LONGITUDINAL CONSTRUCTION JOINT SHOWN ON STANDARD 420001.
2. TIE BARS SHALL BE NO. 20 (NO.6) AT 24" (600) CENTERS UNLESS OTHERWISE SHOWN.
3. IF THE AVERAGE GRADE OF PAVEMENT FOR THE DISTANCE FROM SECTION A-A TO D-D EXCEEDS 2%, THIS DISTANCE SHALL BE INCREASED 6' (1.8 m) FOR EACH 1% INCREASE IN GRADE.

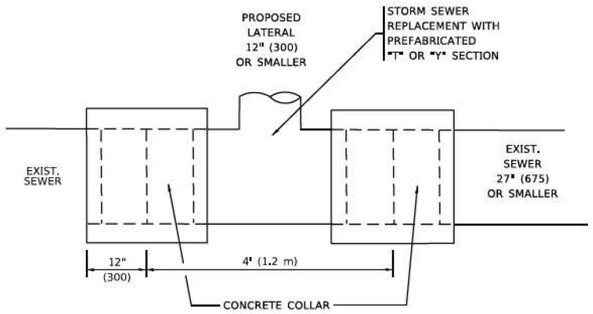
METHOD OF MEASUREMENT

FOR SECTION A-A TO E-E AND CURTAIN WALL=
1.25 CU. YDS. (0.96^{3}m) CLASS SI CONCRETE (OUTLET) FOR 9" (225) PAV'T.
1.27 CU. YDS. (0.96^{3}m) CLASS SI CONCRETE (OUTLET) FOR 10" (250) PAV'T.
FOR SECTION F-F=
0.045 CU. YDS. (0.03^{3}m) CLASS SI CONCRETE PER ft. (m).

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

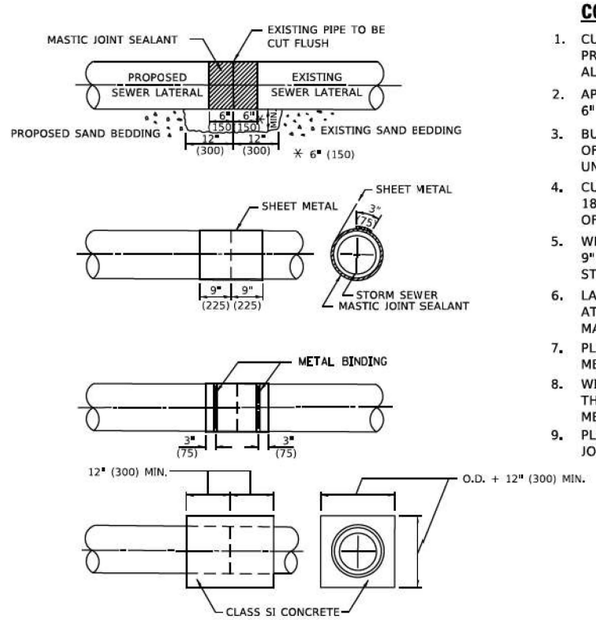
MODEL: Default
FILE NAME: pw:\\ildot-pw.bentley.com:PWIDOT\Documents\IDOT Offices\District 1\Projects\Std22x34\CADData\CADsheets\bd03.dgn

USER NAME = Lawrence.DeManche	DESIGNED - M. DE YONG	REVISED - R. SHAH 10-25-94	STATE OF ILLINOIS DEPARTMENT OF TRANSPORTATION	OUTLET FOR CONCRETE CURB AND GUTTER	F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
	DRAWN -	REVISED - E. GOMEZ 12-21-00			326	(104 & 105)WRS-9(13)	MCHENRY	941	840
PLOT SCALE = 100,0000 ' / in.	CHECKED -	REVISED - K. SMITH 08-27-19			BD600–01	(BD–03)	CONTRACT NO. 60X17		
PLOT DATE = 11/18/2022	DATE - 08-04-86	REVISED - K. SMITH 11-18-22		SCALE: NONE SHEET 1 OF 1 SHEETS STA. TO STA.		ILLINOIS FED. AID PROJECT			



DETAIL "A"

LATERAL CONNECTION TO EXISTING SEWER
OF 27" (675) OR SMALLER

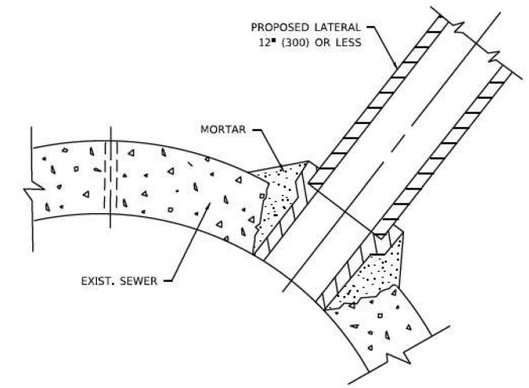


DETAIL "B"

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

1. 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.
2. CARE MUST BE TAKEN TO PREVENT ANY PART OF THE NEW PIPE CONNECTION FROM PROJECTING INTO THE EXISTING SEWER.

BASIS OF PAYMENT

1. 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.
2. 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.
3. TRENCH BACKFILL, EXCAVATION IN ROCK AND REMOVAL AND REPLACEMENT OF UNSUITABLE MATERIAL BELOW PLAN BEDDING GRADE WILL BE PAID FOR SEPARATELY.
4. 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.

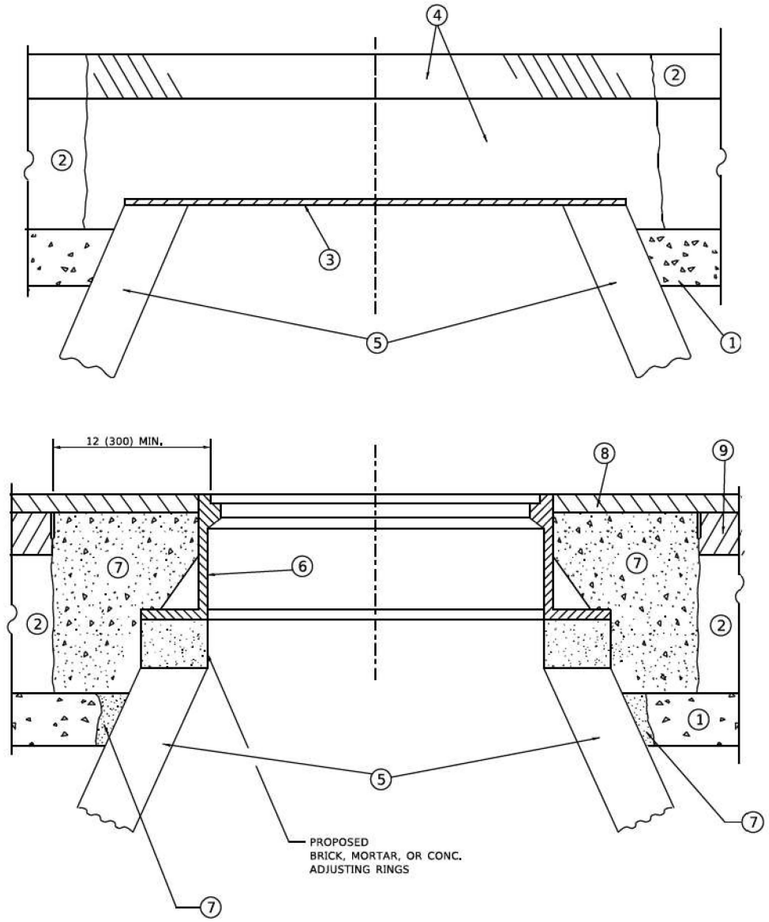
* ALL DIMENSIONS ARE IN INCHES (MILLIMETERS) UNLESS OTHERWISE SHOWN.

USER NAME = Lawrence.DeManche	DESIGNED - M. DE YONG	REVISED - R. SHAH 09-09-94	STATE OF ILLINOIS DEPARTMENT OF TRANSPORTATION
	DRAWN -	REVISED - R. SHAH 10-25-94	
PLOT SCALE = 100.0000 ' / In.	CHECKED -	REVISED - R. SHAH 06-12-96	
PLOT DATE = 11/18/2022	DATE - 07-25-90	REVISED - K. SMITH 11-18-22	

DETAIL OF STORM SEWER CONNECTION TO EXISTING SEWER

SCALE: NONE | SHEET 1 OF 1 SHEETS | STA. TO STA.

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
326	(104 & 105)WRS-9(13)	MCHENRY	941	841
BD500-01 (BD-07)		CONTRACT NO. 60X17		
		ILLINOIS FED. AID PROJECT		



DETAILS FOR FRAMES AND LIDS ADJUSTMENT WITH MILLING

NOTES

1. 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.
2. 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.
3. CITY OF CHICAGO CASTINGS ARE THE PROPERTY OF THE CITY AND THE CONTRACTOR SHALL NOTIFY THE CITY FOR REMOVAL AND DISPOSITION OF THE CASTINGS.
4. THE METAL PLATE USED TO COVER THE STRUCTURE SHALL REMAIN THE PROPERTY OF THE CONTRACTOR.
5. THE CONTRACTOR SHALL REMOVE ALL TRAFFIC CONTROL DEVICES BY THE END OF EACH WORK SHIFT.

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 HMA SURFACE MIX APPROVED BY THE ENGINEER. (MIN. 3 (80) HMA TO REMAIN AFTER MILLING).

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-2* 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-2* CONCRETE
8. PROPOSED HMA SURFACE COURSE
9. PROPOSED HMA BINDER COURSE

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

1. 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)."
2. THIS WORK WILL NOT BE PAID FOR WHEN DRAINAGE AND UTILITY STRUCTURES ARE SPECIFIED FOR PAYMENT AS STRUCTURE RECONSTRUCTION.
3. NEW FRAMES AND LIDS, WHEN SPECIFIED, WILL BE PAID FOR SEPARATELY.
4. 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.

ALL DIMENSIONS ARE IN INCHES (MILLIMETERS) UNLESS OTHERWISE SHOWN

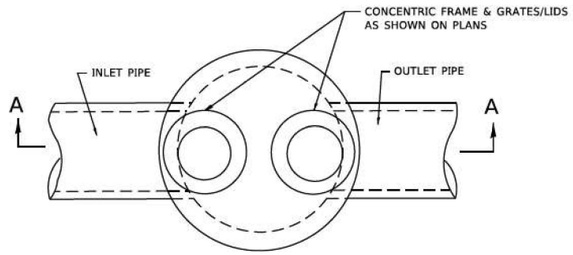
MODEL: Default
FILE NAME: Wrdlfsstd22x34bd08.dgn

USER NAME = Lawrence.DeManche	DESIGNED - R. SHAH	REVISED - R. BORO 03-09-11	STATE OF ILLINOIS DEPARTMENT OF TRANSPORTATION
	DRAWN -	REVISED - R. BORO 12-06-11	
PLOT SCALE = 100.0000 ' / In.	CHECKED -	REVISED - K. SMITH 11-18-22	
PLOT DATE = 9/15/2023	DATE - 10-25-94	REVISED - K. SMITH 09-15-23	

DETAILS FOR FRAMES AND LIDS ADJUSTMENT WITH MILLING

SCALE: NONE | SHEET 1 OF 1 SHEETS | STA. TO STA.

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
326	(104 & 105)WRS-9(13)	MCHENRY	941	841A
BD600-03 (BD-08)		CONTRACT NO. 60X17		
		ILLINOIS FED. AID PROJECT		



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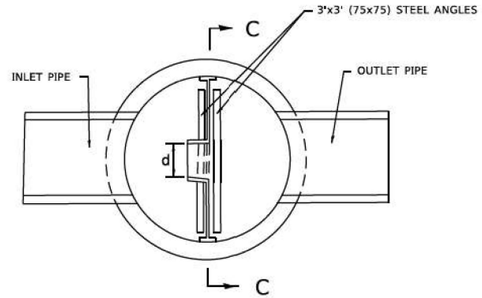
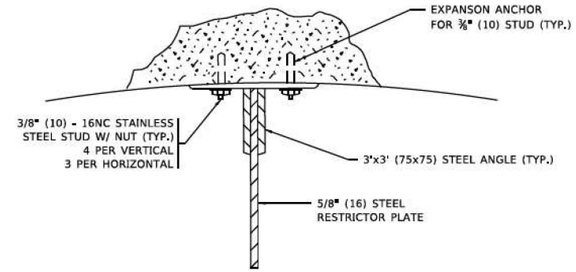


SECTION B–B



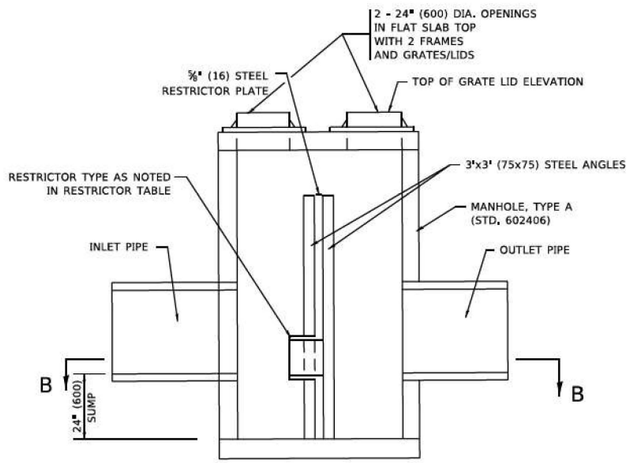
ANGLE FASTENER DETAIL

NOTES:

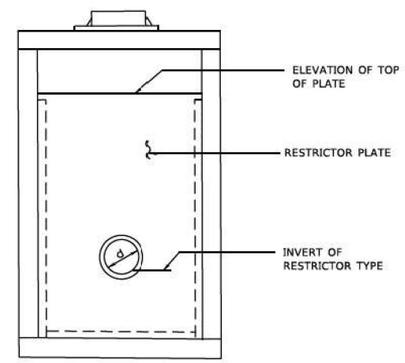
1. ALL STEEL ANGLES AND PLATES TO BE GALVANIZED AFTER FABRICATION.

BASIS OF PAYMENT:

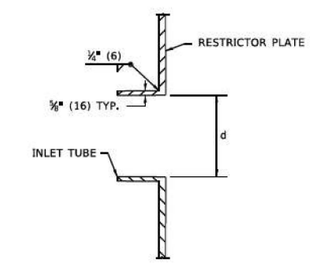
1. TO BE PAID FOR AS "MANHOLES ,TYPE A, 6 FT. (1.8 m)-DIAMETER, TYPE 1 FRAME, CLOSED LID, RESTRICTOR PLATE" EACH
2. ALL RESTRICTOR PLATES, ANGLES AND HARDWARE TO BE INCLUDED IN THE COST OF THE MANHOLE.



SECTION A–A

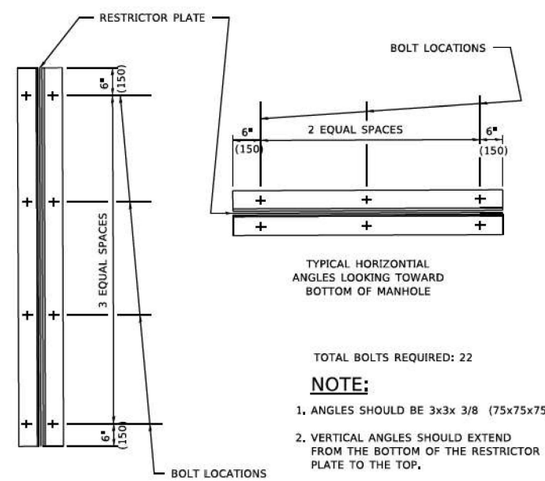


SECTION C–C



INLET TUBE DETAIL

STATION AND OFFSET	MANHOLE DIAMETER	FRAME AND GRATE	RESTRICTOR TYPE	INSIDE RESTRICTOR TYPE DIAMETER In. (mm) (d)	INVERT OF RESTRICTOR TYPE	ELEVATION OF TOP OF PLATE OVERFLOW



TYPICAL VERTICAL ANGLES
LOOKING TOWARD MANHOLE WALL

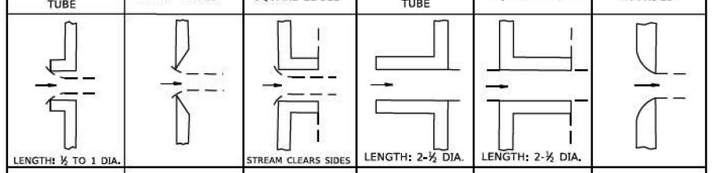
TYPICAL HORIZONTIAL
ANGLES LOOKING TOWARD
BOTTOM OF MANHOLE

TOTAL BOLTS REQUIRED: 22

NOTE:

1. ANGLES SHOULD BE 3x3x 3/8 (75x75x75)
2. VERTICAL ANGLES SHOULD EXTEND FROM THE BOTTOM OF THE RESTRICTOR PLATE TO THE TOP.
3. HORIZONTIAL ANGLES SHOULD EXTEND FROM VERTICAL ANGLE TO VERTICAL ANGLE.

STEEL ANGLE BOLTING DETAILS

RESTRICTOR TYPE					
1	2	3	4	5	6
RE-ENTRANT TUBE	SHARP EDGED	SQUARE EDGED	RE-ENTRANT TUBE	SQUARE EDGED	ROUNDED
					
LENGTH: ½ TO 1 DIA.		STREAM CLEARS SIDES	LENGTH: 2-½ DIA.	LENGTH: 2-½ DIA.	
C=.52	C=.61	C=.61	C=.73	C=.82	C=.98

VALUES OF "C" FOR CIRCULAR
AND SQUARE ORIFICES

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

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USER NAME = Lawrence.DeManche	DESIGNED - R. SHAH	REVISED - R. SHAH 10-25-94	STATE OF ILLINOIS DEPARTMENT OF TRANSPORTATION	MANHOLE WITH RESTRICTOR PLATE	
	DRAWN -	REVISED - E. GOMEZ 08-28-00			
PLOT SCALE = 100.0000 ' / In.	CHECKED -	REVISED - M. GOMEZ 01-08-01			
PLOT DATE = 11/18/2022	DATE - 09-09-94	REVISED - K. SMITH 11-18-22		SCALE: NONE	SHEET 1 OF 1 SHEETS STA. TO STA.

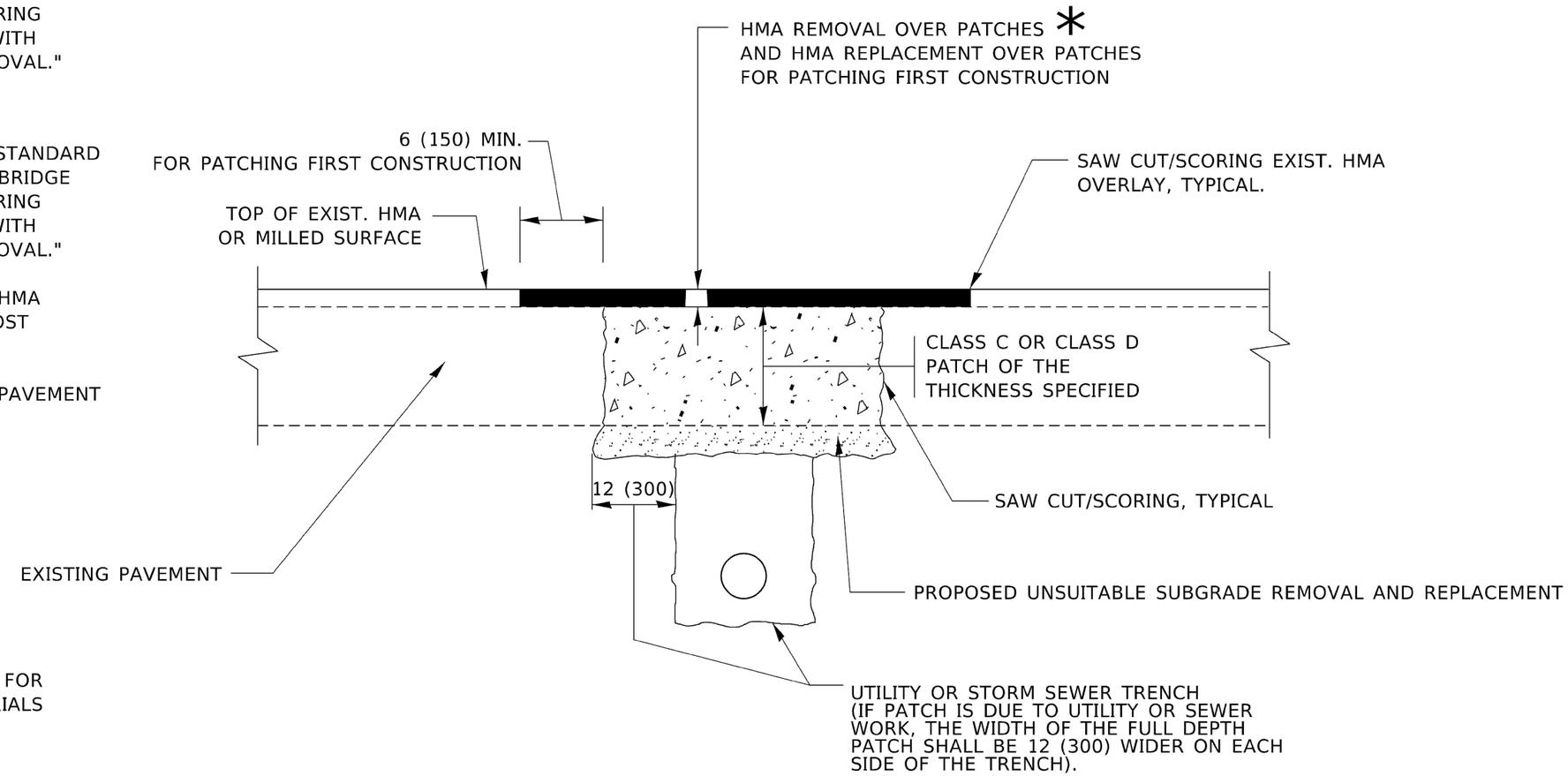
F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
326	(104 & 105)WRS-9(13)	MCHENRY	941	842
BD600-04	(BD-12)	CONTRACT NO. 60X17		
		ILLINOIS FED. AID PROJECT		

METHOD OF MEASUREMENT

REFER TO SECTION 442 OF THE STANDARD SPECIFICATIONS FOR ROAD AND BRIDGE CONSTRUCTION AND THE RECURRING SPECIAL PROVISION "PATCHING WITH HOT-MIX ASPHALT OVERLAY REMOVAL."

BASIS OF PAYMENT

1. REFER TO SECTION 442 OF THE STANDARD SPECIFICATIONS FOR ROAD AND BRIDGE CONSTRUCTION AND THE RECURRING SPECIAL PROVISION "PATCHING WITH HOT-MIX ASPHALT OVERLAY REMOVAL."
2. SAW CUT/SCORING OF EXISTING HMA OVERLAY IS INCLUDED IN THE COST OF PAVEMENT PATCHING.
3. SAW CUT/SCORING OF EXISTING PAVEMENT IS INCLUDED IN THE COST OF PAVEMENT PATCHING.



* SEE TYPICAL SECTIONS FOR THICKNESS AND MATERIALS

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 4½ 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.

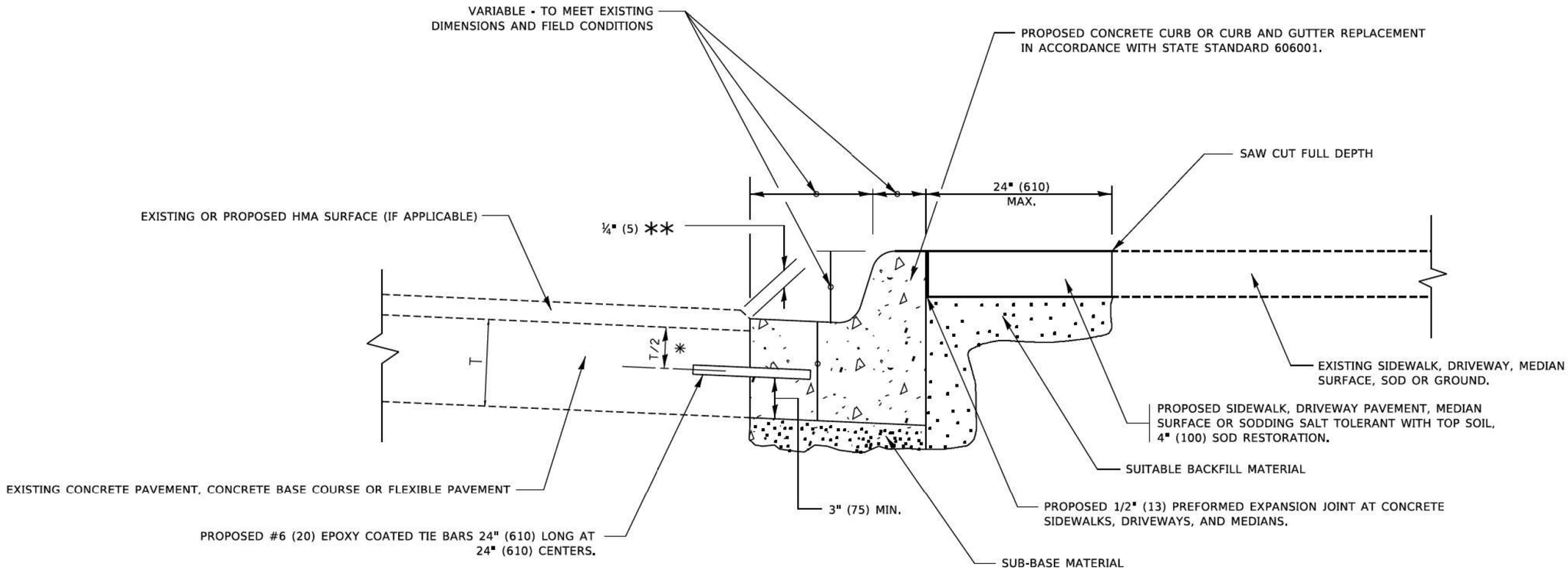
ALL DIMENSIONS ARE IN INCHES (MILLIMETERS) UNLESS OTHERWISE SHOWN.

USER NAME = Lawrence.DeManche	DESIGNED - R. SHAH	REVISED - R. BORO 01-01-07	STATE OF ILLINOIS DEPARTMENT OF TRANSPORTATION
	DRAWN -	REVISED - R. BORO 09-04-07	
PLOT SCALE = 100.0000 ' / in.	CHECKED -	REVISED - K. ENG 10-27-08	
PLOT DATE = 11/18/2022	DATE - 10-25-94	REVISED - K. SMITH 11-18-22	

PAVEMENT PATCHING FOR HMA SURFACED PAVEMENT

SCALE: NONE | SHEET 1 OF 1 SHEETS | STA. TO STA.

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
326	(104 & 105)WRS-9(13)	MCHENRY	941	842A
	BD400-04 (BD-22)	CONTRACT NO. 60X17		
		ILLINOIS FED. AID PROJECT		



* 3" (75) MINIMUM FROM TOP AND BOTTOM OF THE CONCRETE PAVEMENT OR BASE COURSE.

** IF THE FINAL SURFACE OF THE PAVEMENT IS CONCRETE, THE GUTTER IS TO BE FLUSH WITH THE PAVEMENT.

CURB OR CURB AND GUTTER REMOVAL AND REPLACEMENT

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

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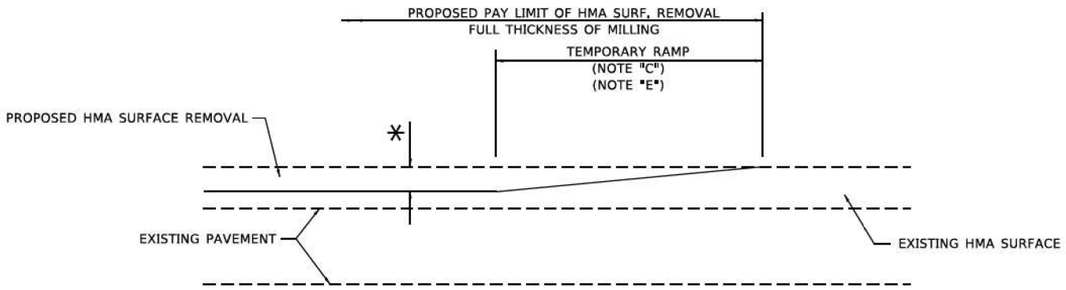
	DRAWN -	REVISED - M. GOMEZ 01-22-01			
PLOT SCALE = 50.0000 ' / in.	CHECKED -	REVISED - R. BORO 12-15-09			
PLOT DATE = 7/11/2019	DATE - 03-11-94	REVISED - K. SMITH 07-11-19		SCALE: NONE	SHEET 1 OF 1 SHEETS STA. TO STA.

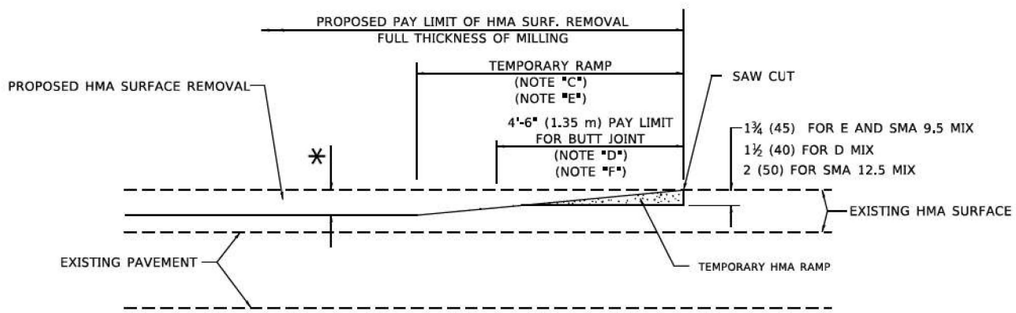
F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
326	(104 & 105)WRS-9(13)	MCHENRY	941	843
BD600-06 (BD-24)		CONTRACT NO. 60X17		
		ILLINOIS FED. AID PROJECT		



MILLED TEMPORARY RAMP

(FOR BUTT JOINT AND HMA TAPER SEE DETAIL BELOW)

OPTION 1

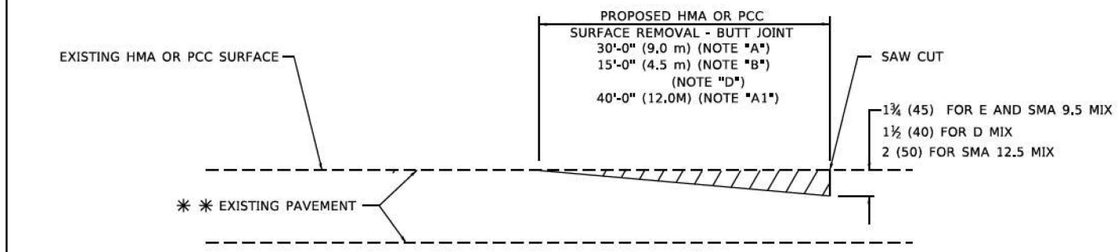


HMA CONSTRUCTED TEMPORARY RAMP

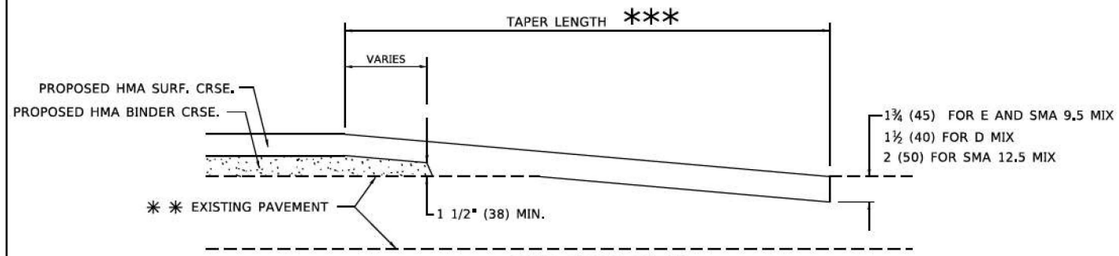
(FOR BUTT JOINT AND HMA TAPER SEE DETAIL BELOW)

OPTION 2

TYPICAL TEMPORARY RAMP



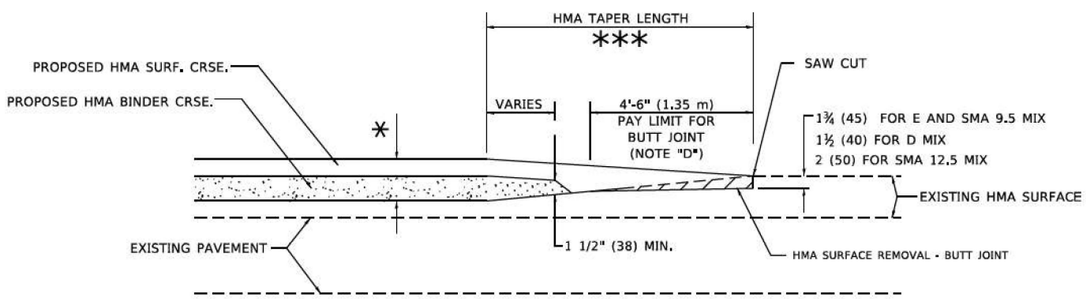
BUTT JOINT DETAIL



HMA TAPER DETAIL

TYPICAL BUTT JOINT AND HMA TAPER FOR RESURFACING ONLY

** PC CONCRETE, HMA OR HMA RESURFACED PAVEMENT.



BUTT JOINT AND HMA TAPER

TYPICAL BUTT JOINT AND HMA TAPER FOR MILLING AND RESURFACING

GENERAL NOTES

A. MAINLINE ARTERIAL ROADWAYS AND MAJOR SIDE ROADS.

A1. INTERSTATES

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' - 4" (1.02m) PER 1 INCH (25 mm) OF MILLING THICKNESS.

* SEE TYPICAL SECTIONS FOR MILLING THICKNESS.

F. SEE ARTICLE 406.08 AND 406.14 OF THE STANDARD SPECIFICATIONS FOR "HMA AND/OR PCC SURFACE REMOVAL, BUTT JOINT".

*** 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

1. 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".
2. THE TEMPORARY RAMP AND SAW CUT SHALL BE INCLUDED IN THE UNIT COST FOR HMA OR PCC SURFACE REMOVAL-BUTT JOINT.

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

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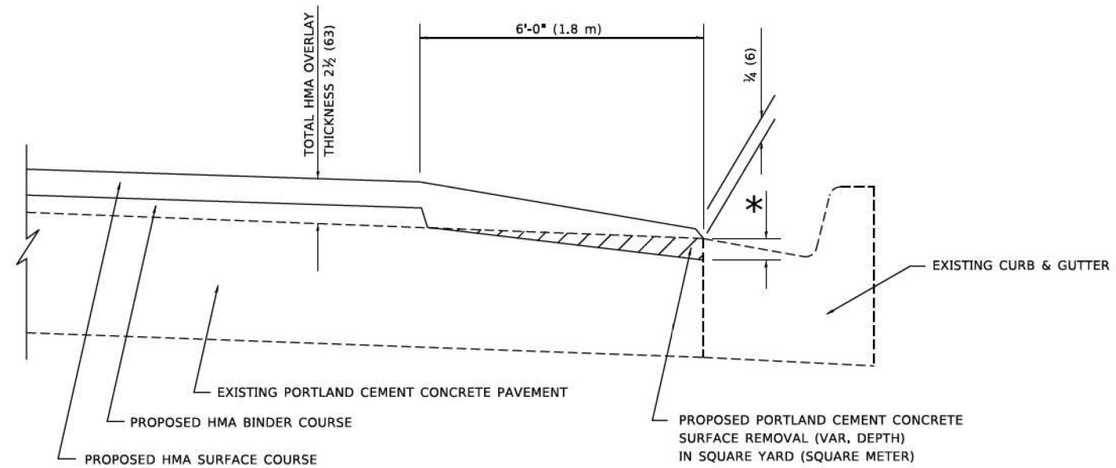
	DRAWN -	REVISED - M. GOMEZ 04-06-01	
PLOT SCALE = 100.0000 ' / In.	CHECKED -	REVISED - R. BORO 01-01-07	
PLOT DATE = 11/18/2022	DATE - 06-13-90	REVISED - K. SMITH 11-18-22	

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

BUTT JOINT AND HMA TAPER DETAILS

SCALE: NONE | SHEET 1 OF 1 SHEETS | STA. TO STA.

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
326	(104 & 105)WRS-9(13)	MCHENRY	941	844
	BD400-05 BD-32	CONTRACT NO. 60X17		
		ILLINOIS FED. AID PROJECT		



HMA TAPER AT
EDGE OF PCC PAVEMENT

HMA SURFACE COURSE		HMA BINDER COURSE	
MIX	THICKNESS	THICKNESS	* MILLING AT GUTTER FLAG
D	1½ (38)	1 (25)	1¼ (33)
E OR SMA 9.5	1¾ (44)	¾ (19)	1½ (38)

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

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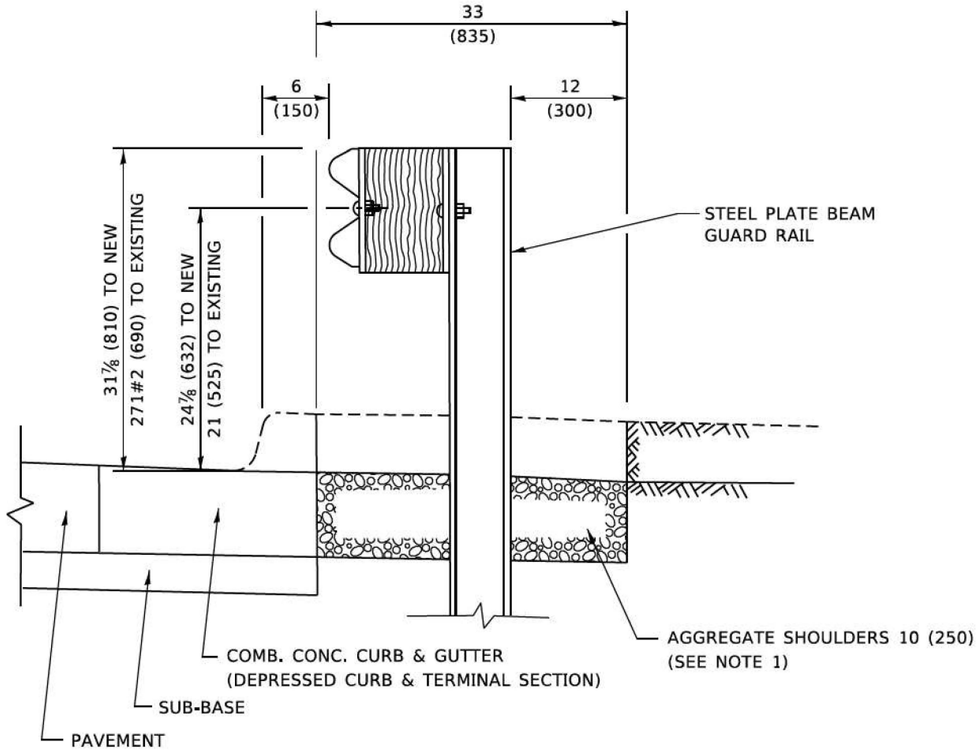
	DRAWN - JIS	REVISED - R. BORO 01-01-07	
PLOT SCALE = 50.0000 ' / in.	CHECKED - A. ABBAS	REVISED - JP CHANG 07-08-16	
PLOT DATE = 1/23/2023	DATE - 09-10-94	REVISED - K. SMITH 11-18-22	

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

HMA TAPER AT
EDGE OF P.C.C. PAVEMENT

SCALE: NONE | SHEET 1 OF 1 SHEETS | STA. TO STA.

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
326	(104 & 105)WRS-9(13)	MCHENRY	941	845
BD400-06	BD-33	CONTRACT NO. 60X17		
	ILLINOIS	FED. AID PROJECT		

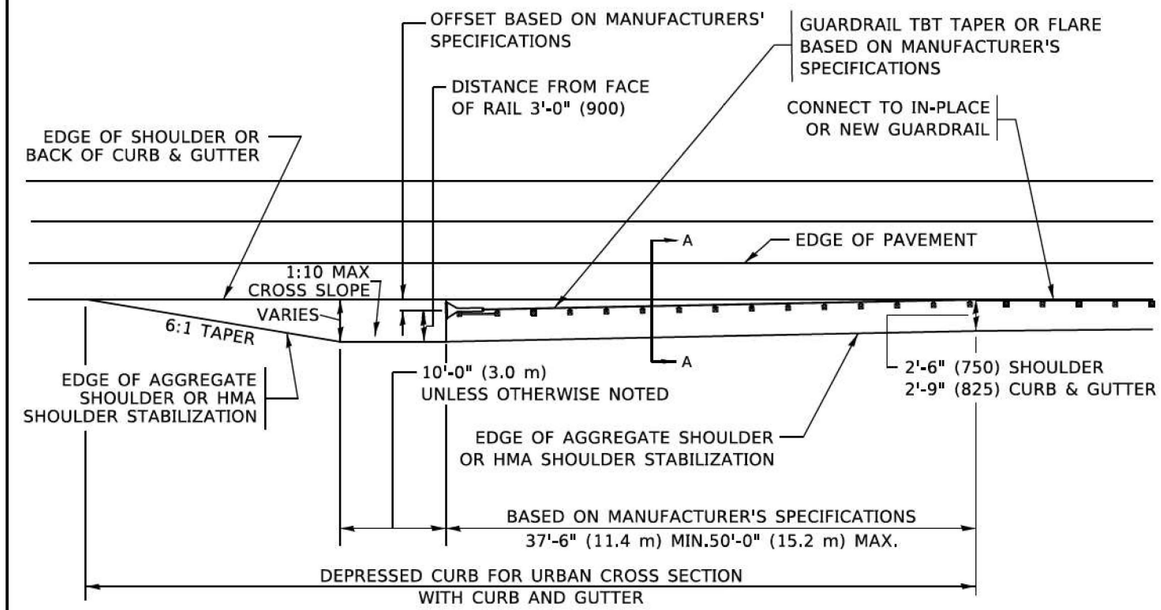


SECTION A–A

NOTES:

1. THE AGGREGATE SHOULDER, 10 (250) OR HMA SHOULDER, 6 (150) (IF REQUIRED) SHALL EXTEND UNDER THE TRAFFIC BARRIER TERMINAL.
2. "EXISTING" GUARDRAIL REFERS TO CONNECTING TERMINAL SECTION TO GUARD RAILING PRIOR TO THE MIDWEST GUARDRAIL SYSTEM.
3. THE CONTRACTOR SHALL VERIFY THE TYPE/HEIGHT OF GUARDRAIL IN-PLACE BEFORE ORDERING THE NEW TERMINAL SECTION. COST INCLUDED WITH THE COST OF THE TERMINAL. THE EXISTING GUARDRAIL HEIGHT SHALL TRANSISTION TO MATCH THE NEW TERMINAL END SECTION AND SHALL BE PAID FOR AS VERTICAL ADJUSTMENT OF EXISTING GUADRAIL.

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



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

AGGREGATE SHOULDER, 10 (250) WILL BE PAID ACCORDING TO SECTION 481.

HMA SHOULDERS 6 (150) (IF REQUIRED) WILL BE PAID ACCORDING TO SECTION 482.

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

TBT = TRAFFIC BARRIER TERMINAL

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

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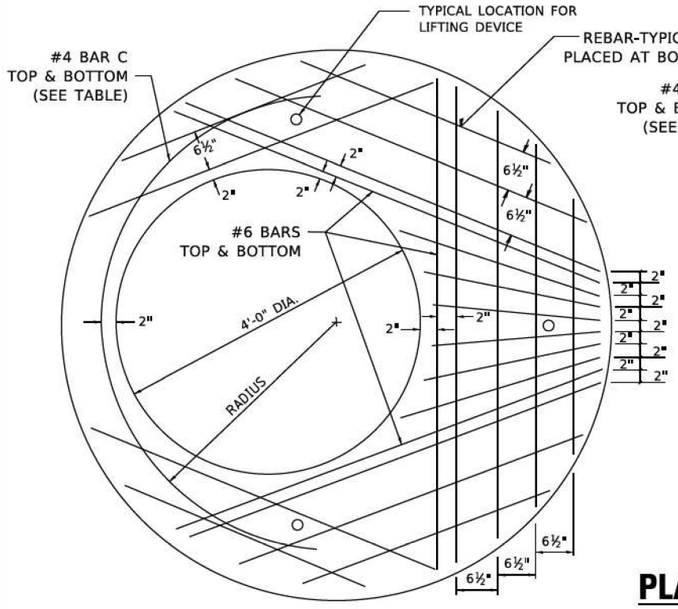
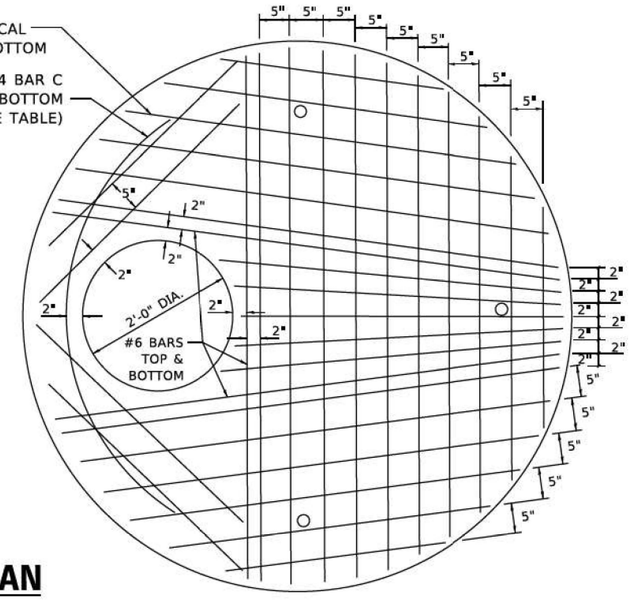
	DRAWN -	REVISED - R. BORO 08-06-2012	
PLOT SCALE = 100.0000 ' / in.	CHECKED -	REVISED - R. BORO 05-08-2015	
PLOT DATE = 11/18/2022	DATE - 09-22-90	REVISED - K. SMITH 11-18-22	

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

SCALE: NONE | SHEET 1 OF 1 SHEETS | STA. TO STA.

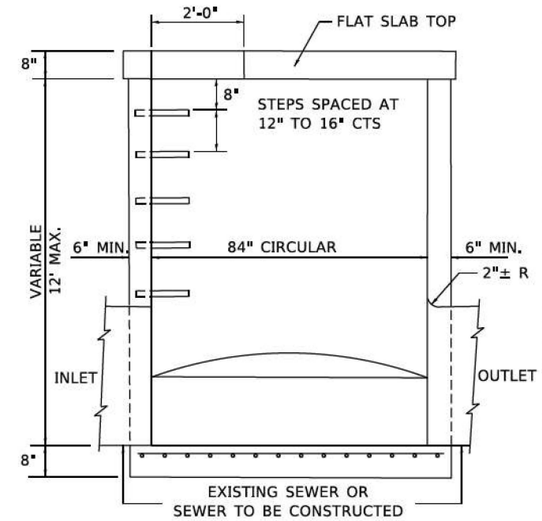
F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
326	(104 & 105)WRS-9(13)	MCHENRY	941	846
	BD600-10 (BD-34)	CONTRACT NO. 60X17		
	ILLINOIS	FED. AID PROJECT		





PLAN

SHOWING REBAR REINFORCEMENT



ELEVATION

GENERAL NOTES

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

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

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

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

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

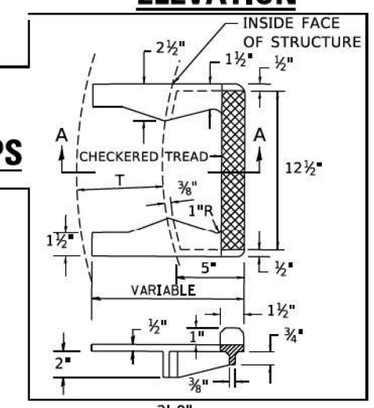
PRECAST FLAT SLAB TOP SHALL CONFORM TO ARTICLES 505.01 THRU 505.05 OF THE STANDARD SPECIFICATIONS EXCEPT THAT THE CONCRETE STRENGTH SHALL BE 4,000 PSI AFTER 28 DAYS. REINFORCEMENT BARS AND WELDED WIRE FABRIC SHALL CONFORM TO THE REQUIREMENTS OF ARTICLE 1006.10. ONLY GRADE 60 REINFORCEMENT BARS WILL BE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

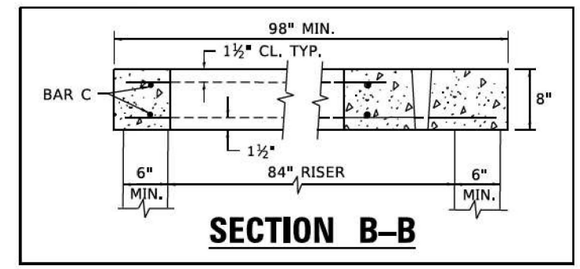
BOTTOM SLAB SHALL BE REINFORCED BY EITHER REINFORCEMENT BARS OR WELDED WIRE FABRIC. THE MINIMUM REINFORCEMENT SHALL BE 0.46 SQUARE INCH PER LINEAR FOOT IN BOTH DIRECTIONS.

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

LIFTING DEVICES SHALL BE APPROVED BY THE ENGINEER.

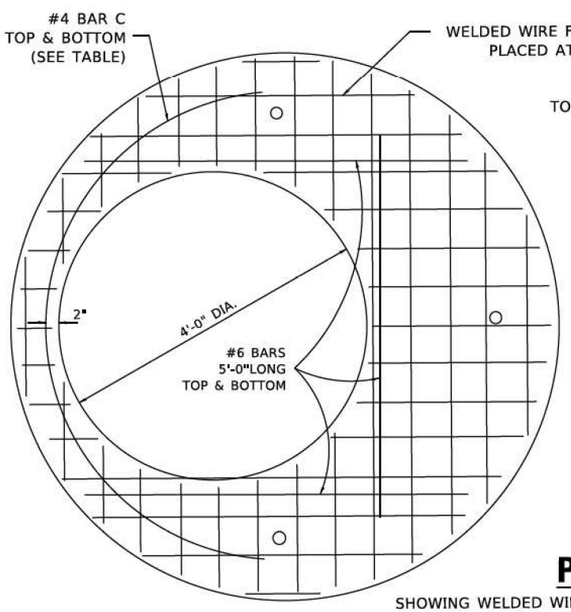
SEC. A–A
CAST IRON STEPS

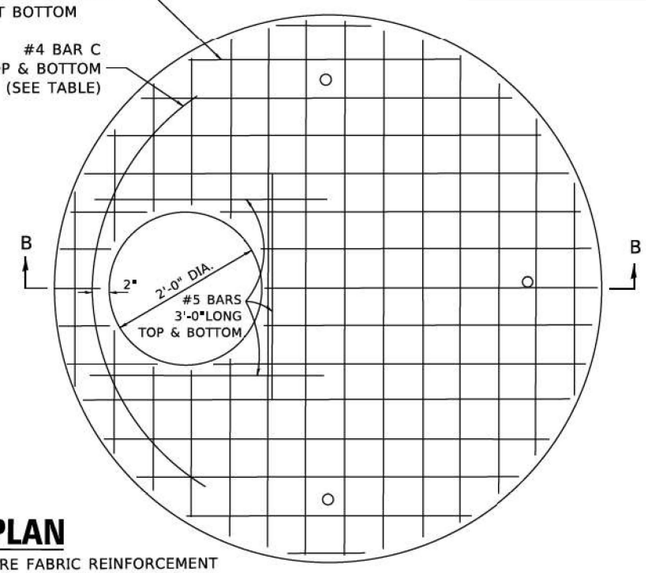




SECTION B–B

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





PLAN

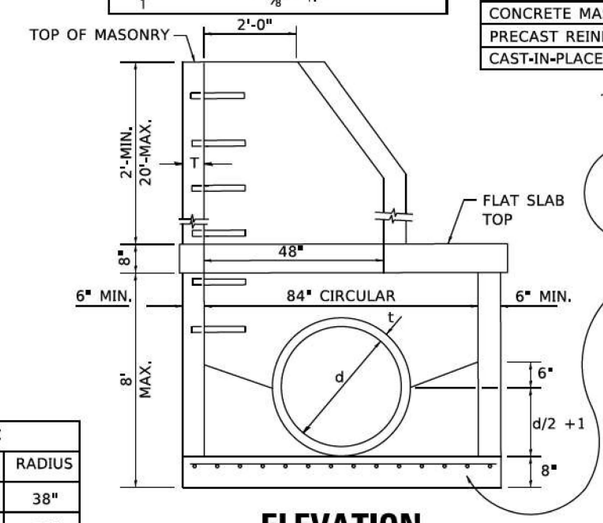
SHOWING WELDED WIRE FABRIC REINFORCEMENT

NOTE:

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

TABLE

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



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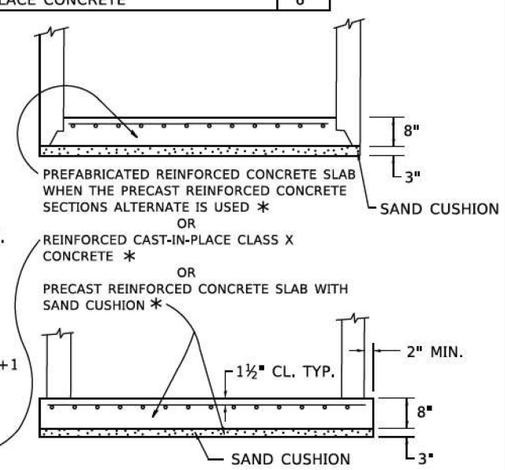

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PLOT DATE = 3/27/2019	DATE - 10-18-02	REVISED -	

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

MANHOLE TYPE A
7 FOOT DIAMETER

SCALE: NONE | SHEET 1 OF 1 SHEETS | STA. | TO STA.

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
326	(104 & 105)WRS-9(13)	MCHENRY	941	847
BD600–11	(BD–37)	CONTRACT NO. 60X17		
		ILLINOIS FED. AID PROJECT		

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FRAME EXTENSION INTO PAVEMENT	INNER HOOP REINFORCEMENT DIAMETER	SEMI CIRCULAR FORM DIAMETER	OUTER HOOP REINFORCEMENT DIAMETER
UP TO 8" (200)	3'-6" (1.1 m)	4'-0" (1.2 m)	5'-0" (1.5 m)
> 8" (200) TO 14" (360)	4'-0" (1.2 m)	4'-6" (1.4 m)	5'-0" (1.5 m)

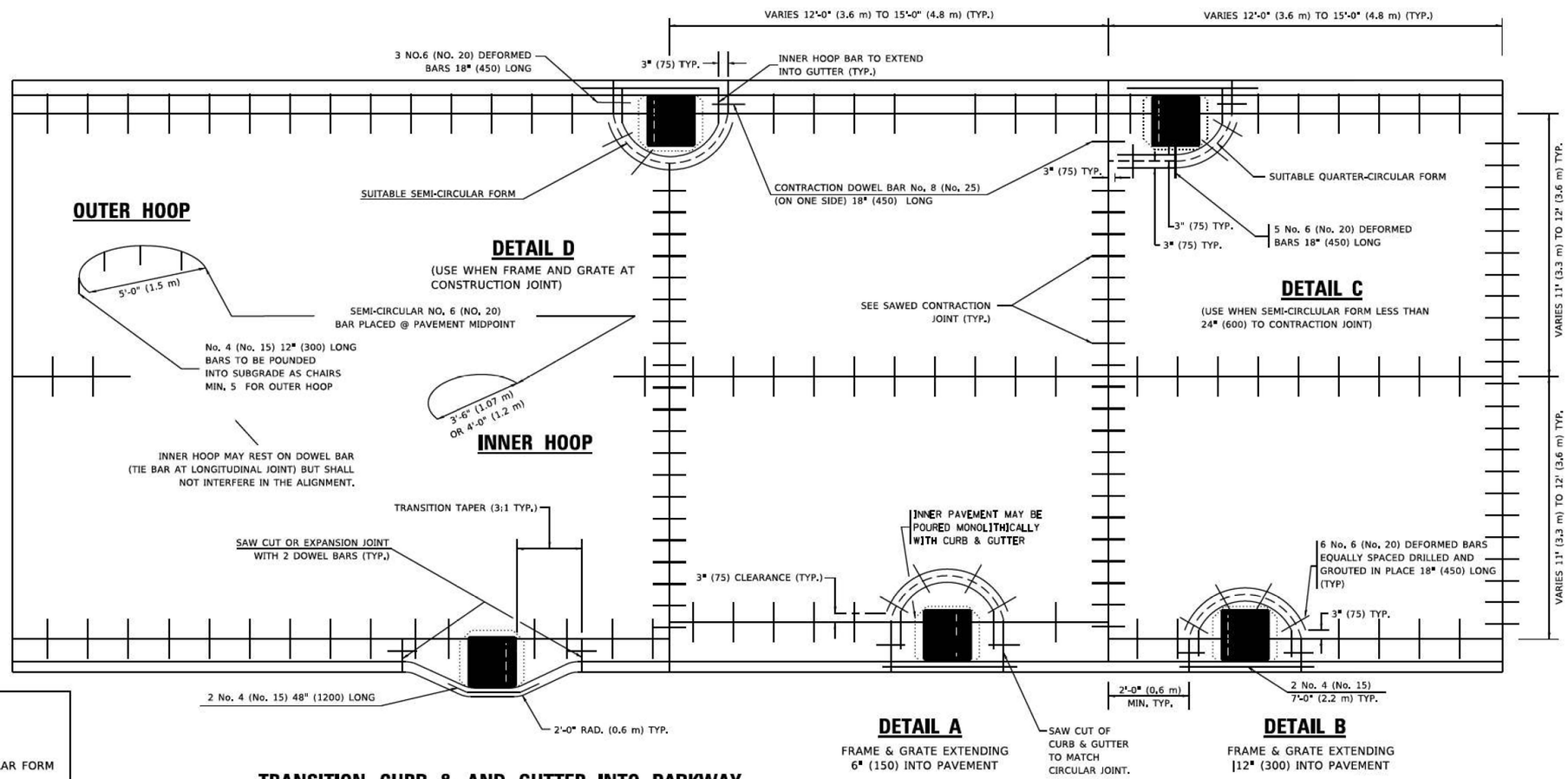
GENERAL NOTES

1. TRANSVERSE JOINTS MAY BE MOVED TO ACCOMMODATE ROUNDOUT, EDGE OF CIRCULAR JOINT SHALL BE MINIMUM 12" (300) FROM TRANSVERSE JOINT. RELOCATED TRANSVERSE JOINT SHALL BE CONTINUOUS FROM EDGE OF PAVEMENT TO EDGE OF PAVEMENT.
2. SEMI-CIRCULAR FORM SHALL BE REMOVED PRIOR TO DRILL AND GROUT OF TIE BARS.
3. ALL REINFORCED BARS SHALL BE EPOXY COATED.
4. DRILL AND GROUT IS PREFERRED, HOWEVER TIE BARS CAN BE POURED IN PLACE IF CLEARANCE IS PROVIDED TO OUTER EDGE OF FRAME. MINIMUM 2" (50) CLEARANCE.
5. WOOD SHIMS SHALL BE USED TO ADJUST ALL FRAMES. AFTER ADJUSTING MORTAR HAS CURED, THE WOOD SHIMS SHALL BE REMOVED AND THE VOIDS UNDER THE FRAMES FILLED WITH NON SHRINK GROUT.
6. HOOP REINFORCEMENT SHALL BE ONE PIECE CONSTRUCTION.
7. CIRCULAR FRAMES AND GRATES MAY BE SUBSTITUTED.
8. CURB DOWELS MUST BE PLACED LEVEL & TRUE TO ALLOW CONTRACTION MOVEMENT.

BASIS OF PAYMENT

1. THE ROUNDOUT AND ADDED REINFORCEMENT WILL NOT BE PAID SEPARATELY, BUT SHALL BE INCLUDED IN THE CONTRACT UNIT PRICE FOR THE PAVEMENT.

DESIGNER NOTE
THIS DETAIL IS TO BE USED WHEN THE GUTTER FLAG IS LESS THAN 24"



LEGEND

..... CASTING

– – – – – – SUITABLE SEMI-CIRCULAR FORM

TRANSITION CURB & AND GUTTER INTO PARKWAY (PREFERRED BECAUSE PAVING OF MAINLINE NOT AFFECTED.)

ALL DIMENSIONS ARE IN INCHES (MILLIMETERS) UNLESS OTHERWISE NOTED

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	DRAWN - TOM MATOUSEK	REVISED - T. MATOUSEK 04-25-02	
PLOT SCALE = 100.0000 ' / in.	CHECKED - A. ABBAS	REVISED - P. LAFLEUR 08-27-02	
PLOT DATE = 11/18/2022	DATE - 01-04-99	REVISED - K. SMITH 11-18-22	

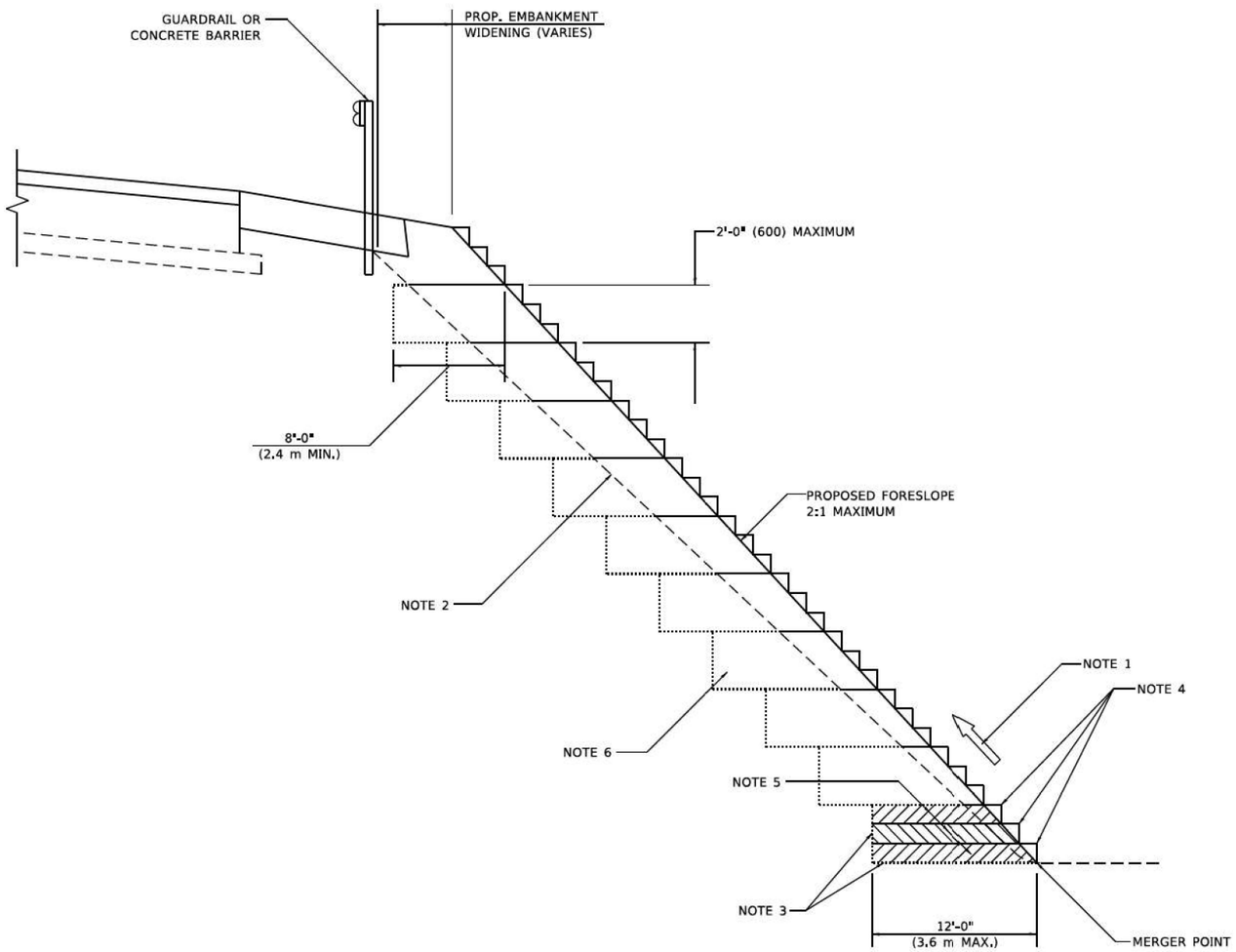
PCC PAVEMENT ROUNDOUTS AT CURB AND GUTTER

SCALE: NONE | SHEET 1 OF 1 SHEETS | STA. TO STA.

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
326	(104 & 105)WRS-9(13)	MCHENRY	941	848

BD-48 | CONTRACT NO. 60X17

ILLINOIS | FED. AID PROJECT



TYPICAL BENCHING DETAIL
FOR EMBANKMENT

GENERAL NOTES

1. CONSTRUCT SUCCEEDING BENCH CUTS AND EMBANKMENT PLACEMENT AND COMPACTION FROM BOTTOM TO TOP IN STAIRSTEP FASHION.
2. EXISTING FORESLOPE PREPARED IN ACCORDANCE WITH ARTICLE 205.03 OF THE STANDARD SPECIFICATIONS.
3. BENCH CUT EXISTING SLOPE TYPICAL FOR EACH STEP.
4. TRIM TO FINAL SLOPE.
5. EQUAL 8-INCH (200) LIFTS OF EMBANKMENT COMPACTED IN ACCORDANCE WITH ARTICLE 205.05 OF THE STANDARD SPECIFICATIONS.

BASIS OF PAYMENT

1. EXCAVATION OF BENCH CUTS WITHIN EXISTING EMBANKMENT WILL BE PAID FOR AT THE CONTRACT UNIT PRICE PER CUBIC METER OR CUBIC YARD FOR "EARTH EXCAVATION". THIS PRICE WILL INCLUDE ALL LABOR AND MATERIAL, NO ADDITIONAL COMPENSATION WILL BE ALLOWED.

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

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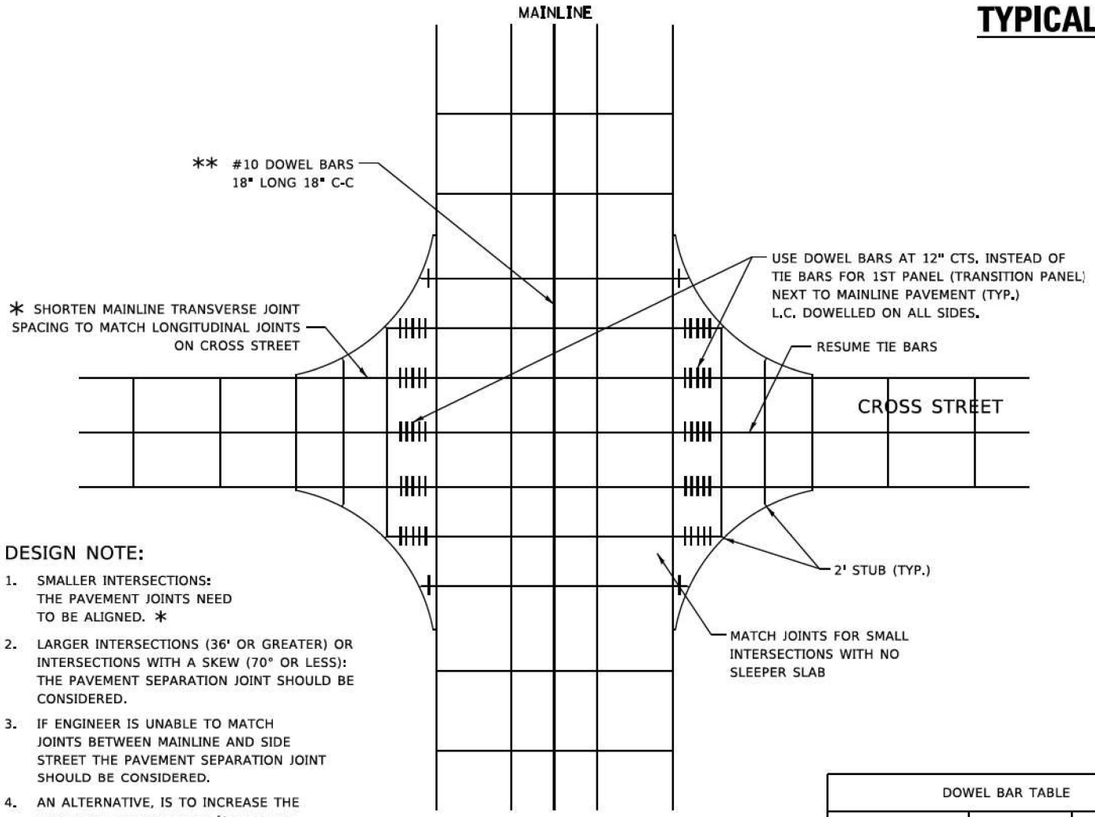
	DRAWN - CADD	REVISED -			326	(104 & 105)WRS-9(13)	MCHENRY	941	849
PLOT SCALE = 100.0000 ' / in.	CHECKED - S.E.B.	REVISED -			BD-51		CONTRACT NO. 60X17		
PLOT DATE = 11/18/2022	DATE - 06-16-04	REVISED -		SCALE: NONE / SHEET 1 OF 1 SHEETS / STA. TO STA.	ILLINOIS	FED. AID PROJECT			

TYPICAL APPLICATION



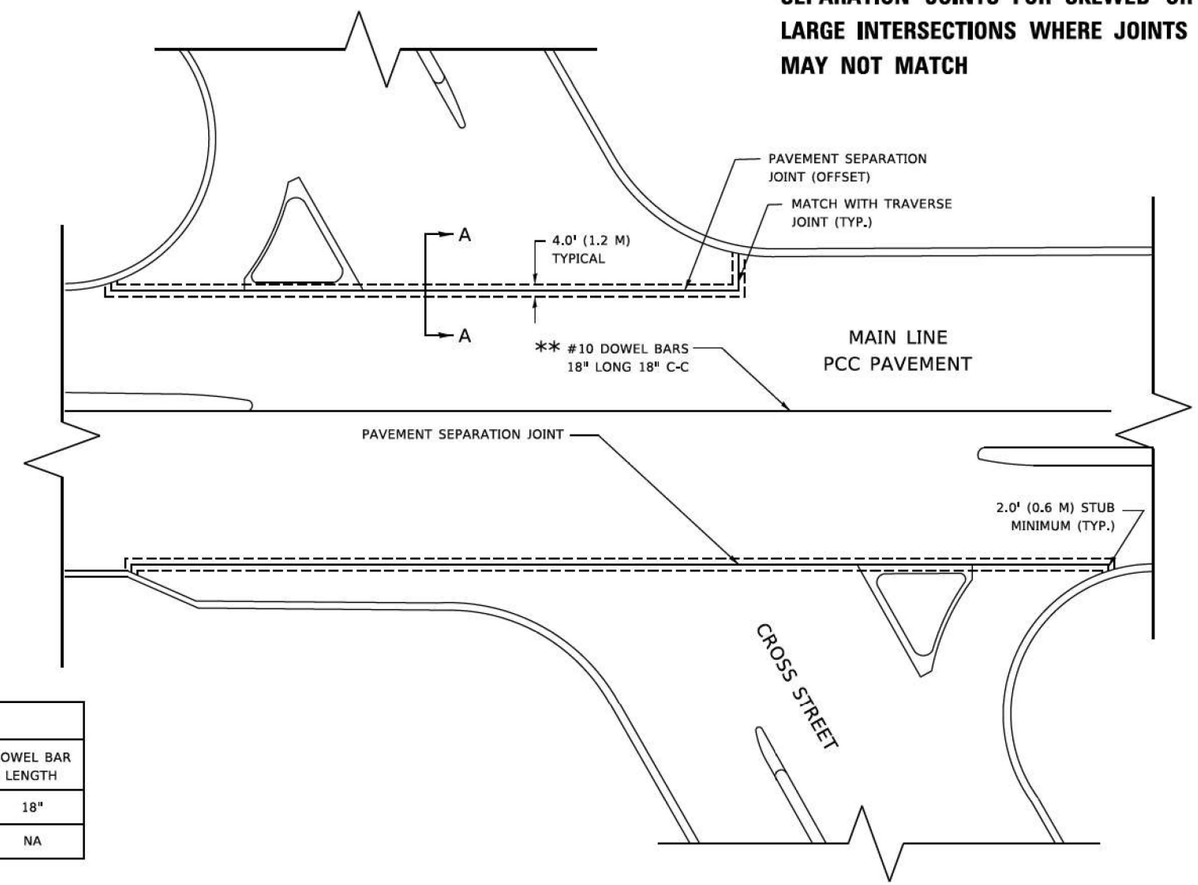
PLAN

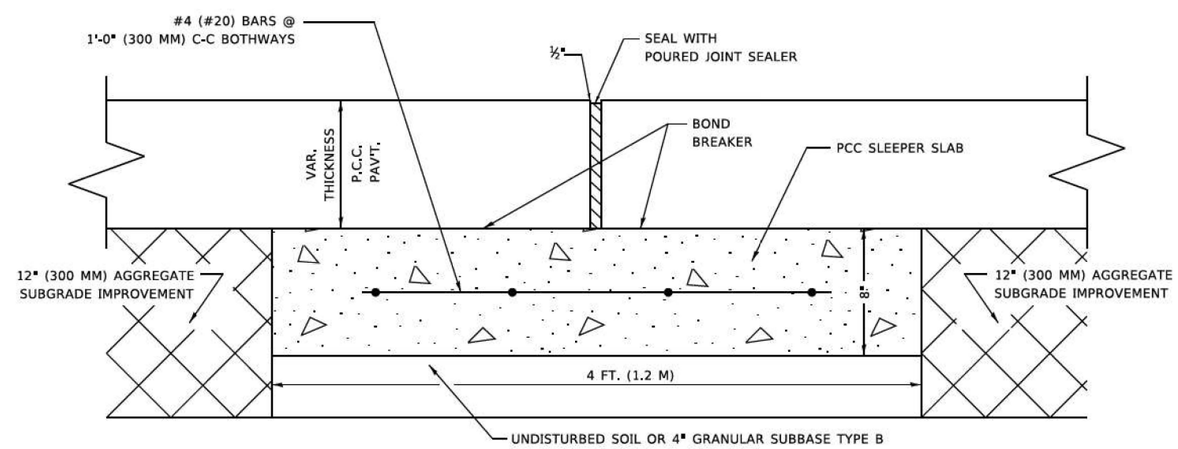
DESIGN NOTE:

1. SMALLER INTERSECTIONS: THE PAVEMENT JOINTS NEED TO BE ALIGNED. *
2. LARGER INTERSECTIONS (36' OR GREATER) OR INTERSECTIONS WITH A SKEW (70° OR LESS): THE PAVEMENT SEPARATION JOINT SHOULD BE CONSIDERED.
3. IF ENGINEER IS UNABLE TO MATCH JOINTS BETWEEN MAINLINE AND SIDE STREET THE PAVEMENT SEPARATION JOINT SHOULD BE CONSIDERED.
4. AN ALTERNATIVE, IS TO INCREASE THE PAVEMENT THICKNESS BY ½" FOR THE LENGTH OF THE AFFECTED PANELS AT THE INTERSECTION.
5. FOR LARGE INTERSECTIONS, (6 LANES OR MORE) WHERE JOINTS CAN BE MATCHED , USE #8 (25) DOWEL BARS INSTEAD OF #8 (25) TIE BARS AT EDGE OF MAINLINE PAVEMENT WHEN NO PAVEMENT SEPARATION JOINTS USED.

DOWEL BAR TABLE		
PAVEMENT THICKNESS	DOWEL BAR DIAMETER	DOWEL BAR LENGTH
8" OR GREATER	1½"	18"
LESS THAN 8"	NA	NA

THE USE OF CROSS STREET PAVEMENT SEPARATION JOINTS FOR SKEWED OR LARGE INTERSECTIONS WHERE JOINTS MAY NOT MATCH





PROPOSED SECTION A–A

NOTE:

1. JOINT FILLER SHALL CONSIST OF A SHEET OF ½" BITUMINOUS PREFORMED FIBER JOINT FILLER CONFORMING TO ARTICLE 1051.03 OF THE STANDARD SPECIFICATIONS.
2. THE JOINT SHALL BE SEALED WITH A HOT POUR JOINT SEALER CONFORMING TO ARTICLE 1050.02 OF THE STANDARD SPECIFICATIONS.
3. A SINGLE LAYER OF FELT ROOFING PAPER SHALL SERVE AS A BOND BREAKER.
4. JOINT SHALL CONTINUE THROUGH COMBINATION CURB & GUTTER OR PCC SHOULDER.

METHOD OF MEASUREMENT

THIS WORK WILL BE MEASURED FOR PAYMENT IN FEET, MEASURED IN PLACE.

BASIS OF PAYMENT

1. THIS WORK WILL BE PAID FOR AT THE UNIT PRICE PER FOOT FOR "SLEEPER SLAB".
2. BOND BREAKER AND½" (13MM) JOINT FILLER SHALL BE INCLUDED IN THE PAY ITEM "SLEEPER sLAB"

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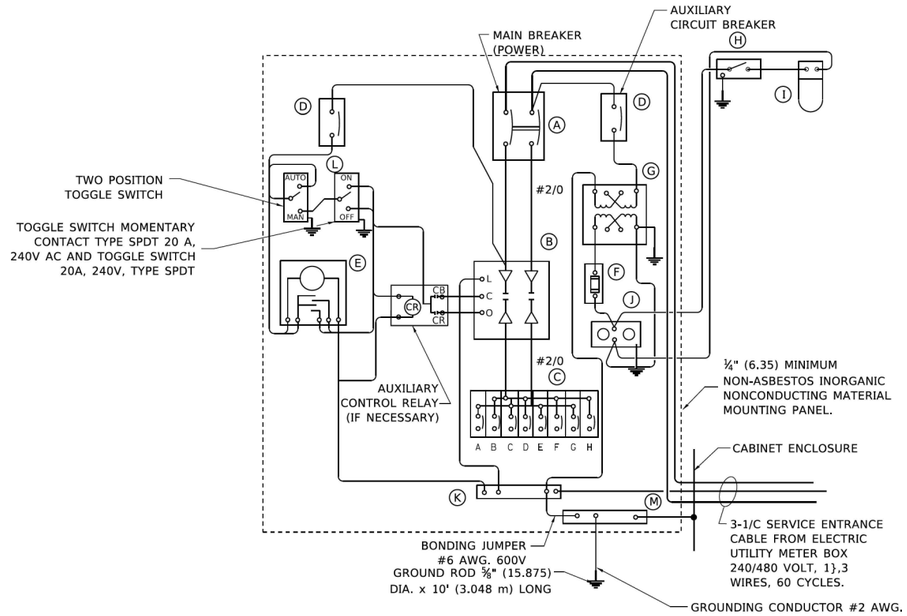
PLOT DATE = 3/27/2019	DATE - 05-14-2002	REVISED -	

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

DETAIL OF PAVEMENT SEPARATION
JOINT FOR JOINTED PCC PAVEMENTS AT INTERSECTIONS

SCALE: NONE | SHEET 1 OF 1 SHEETS | STA. TO STA.

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
326	(104 & 105)WRS-9(13)	MCHENRY	941	850
BD52		CONTRACT NO. 60X17		
		ILLINOIS FED. AID PROJECT		

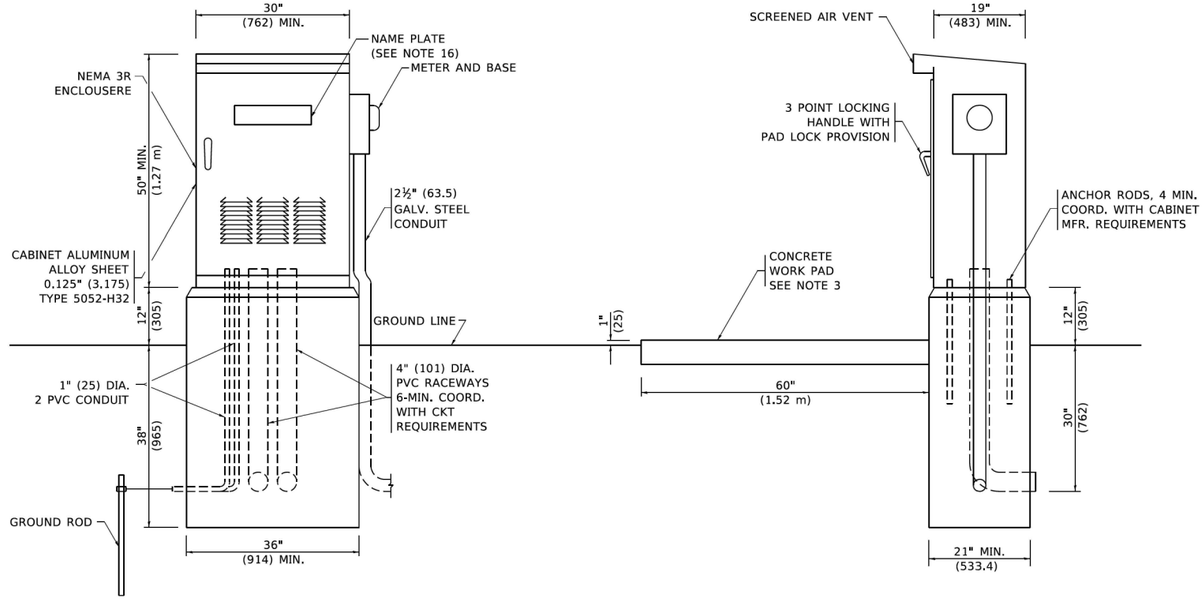


PANEL WIRING DIAGRAM

PANEL EQUIPMENT

BILL OF MATERIAL

ITEM	QUANTITY	DESCRIPTION
A	1	MAIN CIRCUIT BREAKER, 2 POLE, 600 VOLT 100 AMP. FRAME, 100 AMP. NON-INTERCHANGEABLE TRIP INTERRUPTING RATING NEMA-22000 AMP. AT 480 VOLT.
B	1	REMOTE CONTROL SWITCH, ELECTRICALLY OPERATED, MECHANICALLY HELD, 2 POLE, SINGLE THROW, 100 AMP., 600 VOLTS CONTROL CIRCUIT 240 VOLT.
C	8	CIRCUIT BREAKERS, 1 POLE, 100AMP. FRAME, 50 AMP. NON-INTERCHANGEABLE TRIP INTERRUPTING RATING NEMA-10,000 AMP. AT 240 V.
D	2	CONTROL CIRCUIT-CIRCUIT BREAKER. 1 POLE, 240 V., 100 AMP. FRAME, 15 AMP. NON-INTERCHANGEABLE TRIP INTERRUPTING RATING NEMA-5000 AMP. AT 240 V.
E	1	ASTRONOMIC MICROPROCESSOR-BASED 2-CHANNEL CONTROLLER (TIME SWITCH).
F	1	20 AMP, 120 VOLT FUSE.
G	1	1.5 KVA, SINGLE PHASE, ENCAPSULATED TRANSFORMER 240 X 480 / 120 X 240 VOLT, 60 Hz.
H	1	SPST 20A SWITCH ON DOOR, TO TURN LIGHT ON WHEN DOOR IS OPEN,
I	1	INCANDESCENT LIGHTING FIXTURE ENCLOSED AND GASKETED WITH 60 WATT, 120 V. LAMP.
J	1	20 AMP, 120 VOLT, DUPLEX RECEPTACLE, GFCI.
K	1	COPPER GROUND BUS 1#4" (6.35) X 1" (25.4) X 12" (304.8 mm) LONG MOUNTED ON PANEL WITH LUGS AND 4 SPARE LUGS
L	1	TOGGLE SWITCHES MOUNTED IN 4" (101.6) X 4" (101.6 mm) BOX.
M	1	COPPER GROUND BUS 1#4" (6.35) X 1" (25.4) X 12" (304.8 mm) LONG MOUNTED ON PANEL WITH LUGS AND SPARE LUGS.



NOTES

1. ALL DIMENSIONS ARE IN INCHES (MILLIMETERS) UNLESS OTHERWISE SHOWN.
2. FOUNDATION SIZE SHALL BE COORDINATED WITH CABINET SIZE AND MFR.
3. IN FRONT OF CONTROL CABINET DOOR, REMOVE VEGETATION AND 2" (50.8 mm) TOP SOIL, LEVEL THE AREA AND ON TOP, PLACE LENGTH WISE PARALLEL TO CONTROL CABINET, A CONCRETE PAD 36" (914.4 mm) x 60" (18.288 m) x 4" (101 mm) MIN. SIZE. THE COST OF LABOR AND MATERIALS ARE INCLUDED IN THE COST OF THE CONTROLLER.
4. DOOR SHALL BE CONSTRUCTED FROM SAME TYPE OF MATERIAL AND THICKNESS AS CABINET.
5. DOOR SHALL BE EQUIPPED WITH THREE POINT LATCHING MECHANISM WITH NYLON ROLLERS AT TOP THE BOTTOM.
6. DOOR HINGE SHALL BE A HEAVY GAUGE CONTINUOUS HINGE WITH A 1#4" (6.35 mm) DIA. STAINLESS STEEL HINGE PIN.
7. ALL EXTERNAL HARDWARE SHALL BE STAINLESS STEEL.
8. CONTROL WIRING TO BE #12 AWG, 600V, TYPE "SIS" GRAY SWITCH BOARD WIRE, STRANDED COPPER.
9. METER BOX SHALL BE MOUNTED ON THE SIDE OF CONTROL CABINET, NEAR TO THE SERVICE POLE.
10. CABINETS SHALL BE PRIMED AND PAINTED AS SPECIFIED.
11. THE HEADS OF CONNECTORS SCREWS SHALL BE PAINTED WHITE FOR NEUTRAL BAR CONNECTION AND GREEN FOR GROUND BAR CONNECTORS.
12. ALL WIRING WITHIN THE CABINET SHALL BE COLOR CODED AS INDICATED.
    R = RED BL = BLUEW = WHITE
    B = BLACK Y = YELLOW G = GREEN
13. PROVIDE SEALING GROMMETS FOR ALL OPEN WIRING EXTENDED FROM DEVICES IN BOXES OR CABINETS WITHIN THE CONTROL CABINET.
14. ALL WIRING SHALL BE NEATLY DRESSED AND SUPPORTED.
15. THE CONTROLLER SHALL BE CONSTRUCTED TO U.L. STD. 508 AND BEAR THE U.L. LABEL "ENCLOSED INDUSTRIAL CONTROL PANEL".
16. 12" (304.8) X 16" (406.4 mm) STAINLESS STEEL EXTERIOR NAMEPLATE SHALL BE ENGRAVED TO "STATE OF ILLINOIS LIGHTING CONTROLS" UNLESS OTHERWISE SPECIFIED.

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PLOT DATE = 4/19/2019	DATE -	REVISED -	

LIGHTING CONTROLLER
SINGLE DOOR

SCALE: NONE | SHEET 1 OF 1 SHEETS | STA. | TO STA.

F.A. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
	BE-215	CONTRACT NO.		
		ILLINOIS	FED. AID PROJECT	

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TranSmart
100 S. Wacker Drive Suite 400
Chicago, Illinois 60606

USER NAME = MTadden	DESIGNED - MK	REVISED -	STATE OF ILLINOIS DEPARTMENT OF TRANSPORTATION
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DISTRICT 1 DETAILS
BE-215

SCALE: 1" = 50' | SHEET OF SHEETS | STA. | TO STA.

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
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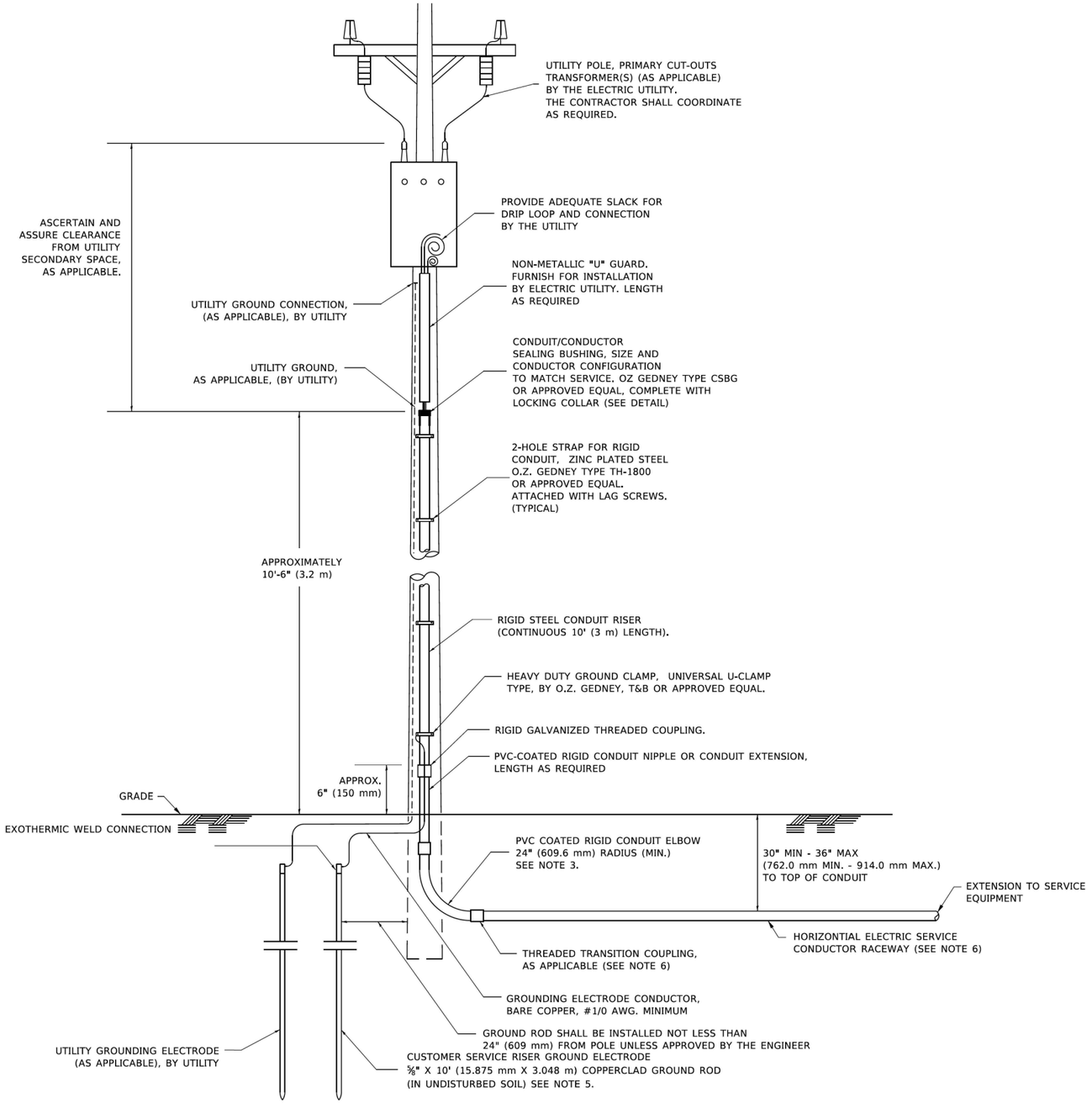
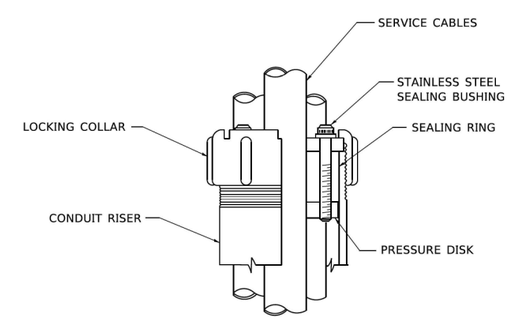


APPLICATION

THIS DETAIL APPLIES FOR LOW VOLTAGE ELECTRIC SERVICE (660 V OR LESS) FROM AN OVERHEAD UTILITY SUPPLY TO SEPERATLY-MOUNTED SERVICE EQUIPMENT.

NOTES

1. SERVICE VOLTAGE SHALL BE AS INDICATED ELSEWHERE IN THE DRAWINGS.
2. UNLESS OTHERWISE INDICATED, ITEMS AND WORK SHALL BE INCLUDED AND PAID AS PART OF THE ELECTRIC UTILITY SERVICE INSTALLATION PAY ITEM.
3. CONDUIT AND CONNECTOR DIAMETER SHALL MATCH THE DIAMETER OF THE SERVICE CONDUCTOR RACEWAY AS INDICATED ON THE PLANS.
4. PVC COATED RACEWAYS AND ACCESSORIES SHALL BE CAREFULLY INSTALLED WITH MFR RECOMMENDED TOOLS AND PROCEDURES TO AVOID DAMAGE. ANY DAMAGE SHALL BE REPAIRED WITH COMPATIBLE PVC TOUCH-UP MATERIAL TO THE SATISFACTION OF THE ENGINEER OR THE DAMAGED MATERIAL SHALL BE REPLACED AT NO ADDITIONAL COST.
5. THE CONTRACTOR SHALL OBTAIN INSPECTION AND APPROVAL BY THE ENGINEER OF SERVICE RISER GROUND ELECTRODE, RISER ELBOW, NIPPLE AND CONNECTION TO SERVICE CONDUCTOR RACEWAY EXTENSION BEFORE BACKFILL AND SHALL ALSO OBTAIN INSPECTION OF SERVICE RISER AND SEALING BUSHING BEFORE UTILITY "U" GUARD INSTALLATION AND SERVICE CONNECTION.
6. THE HORIZONTAL ELECTRIC SERVICE CONDUCTOR RACEWAY SHALL BE AS INDICATED AND SHALL BE MEASURED SEPARATELY FOR PAYMENT. WHEN THE RACEWAY IS PVC-COATED RIGID GALVANIZED STEEL, THE COUPLING SHALL BE THE SAME. WHEN THE RACEWAY IS PVC CONDUIT (IN CONCRETE), THE COUPLING SHALL BE A METALIC TO NON METALIC ADAPTER. WHEN THE RACEWAY IS ENCASED IN CONCRETE, THE CONCRETE SHALL EXTEND TO COVER THE COUPLING.
7. PLANS AND DETAILS INDICATE THE GENERAL NATURE AND REQUIREMENTS. THEY DO NOT SHOW EVERY ACCESSORY AND ATTACHMENT, AND THEY DO NOT RELIEVE THE CONTRACTOR OF THE REQUIREMENTS OF THE SPECIFICATIONS AND SPECIAL PROVISIONS TO ASCERTAIN UTILITY REQUIREMENTS AND TO COORDINATE ACCORDINGLY, FURNISHING ALL ITEMS AND WORK NOT PROVIDED BY THE UTILITY, BUT NECESSARY FOR A COMPLETE SERVICE INSTALLATION IS REQUIRED AND SHALL BE INCLUDED IN THE ELECTRIC UTILITY SERVICE INSTALLATION PAY ITEM.



SEALING BUSHING DETAIL

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ELECTRIC SERVICE INSTALLATION
AERIAL, REMOTE DISCONNECT

SCALE: NONE | SHEET 1 OF 1 SHEETS | STA. | TO STA.

F.A. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
BE-220		CONTRACT NO.		
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TranSmart
100 S. Wacker Drive Suite 400
Chicago, Illinois 60606

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DISTRICT 1 DETAILS
BE-220

SCALE: 1" = 50' | SHEET OF SHEETS | STA. | TO STA.

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
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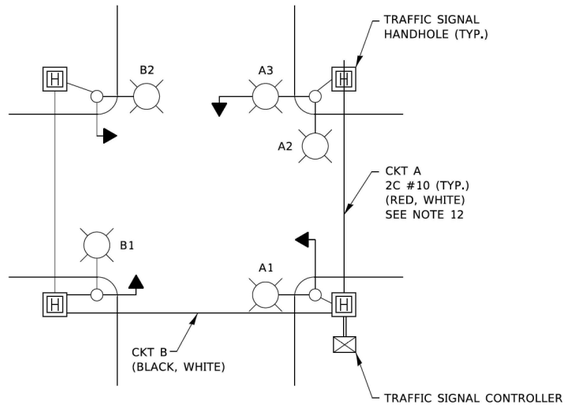
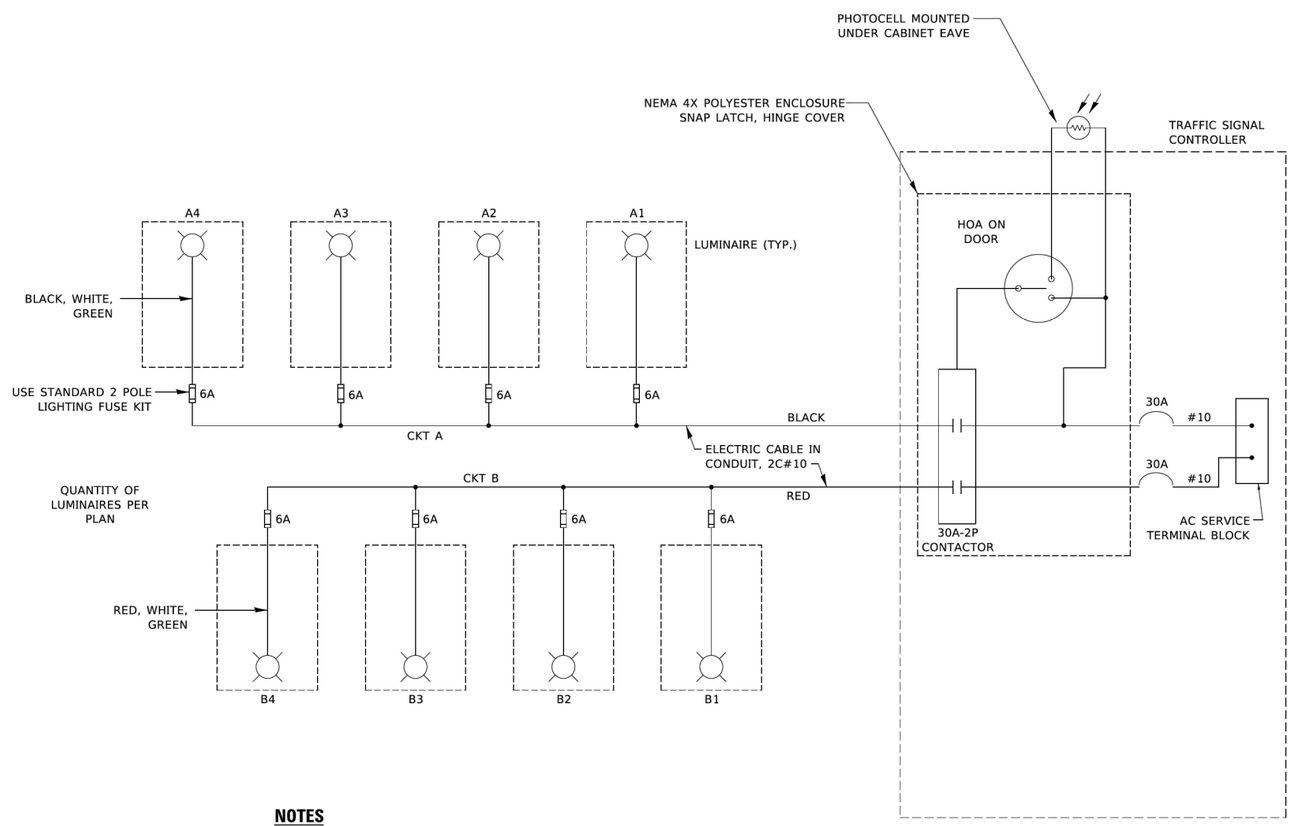
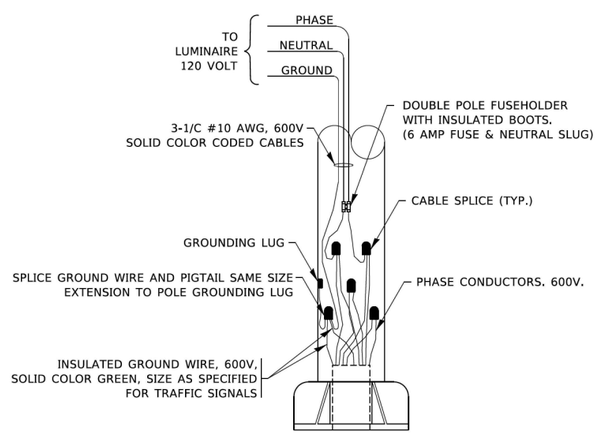


TYPICAL LIGHTING CIRCUIT

(NOT TO SCALE)





COMBINATION POLE WIRING DETAIL

(NOT TO SCALE)

NOTES

1. 4 LUMINAIRES PER CIRCUIT, MAXIMUM.
2. TWO #10 (XLP-TYPE USE) CABLES TO BE USED FOR LIGHTING CIRCUITS.
3. ROUTE LIGHTING CIRCUITS IN TRAFFIC SIGNAL CONDUIT SYSTEM.
4. ALL SPLICES AND CONNECTIONS FOR ROADWAY LIGHTING SHALL BE AT POLE BASE ONLY.
5. FOR LIGHTING CIRCUITS, CONNECT TWO CIRCUIT BREAKERS TO AC SERVICE TERMINAL BLOCK.
6. ALL WIRING SHALL BE NEATLY DRESSED, IDENTIFIED BY TAGS, AND SUPPORTED. (UNDERGROUND SPLICING OF LIGHTING CONDUCTORS IS NOT PERMITTED).
7. THE H.O.A. SWITCH SHALL BE LABELED AS "LIGHTING CONTROL" WITH THE POSITIONS "AUTO", "OFF" AND "TEST" WITH ENGRAVED NAME PLATES.
8. LIGHTING CONNECTED TO UPS BYPASS CIRCUIT.
9. COMBINATION LIGHTING MUST BE INSTALLED PRIOR TO SIGNAL TURN ON.
10. LUMINAIRE VOLTAGE SHALL BE 120V
11. POLE WIRING & FUSE KITS ARE INCLUDED IN THE LUMINAIRE PAY ITEM.
12. THE UNDERGROUND EQUIPMENT GROUND WIRE IS SHOWN IN THE TRAFFIC SIGNAL PLANS AND IS INCLUDED IN THE SIGNAL PLANS. IT IS SHARED GROUND BETWEEN SIGNALS AND LIGHTING.

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TranSmart
100 S. Wacker Drive Suite 400
Chicago, Illinois 60606

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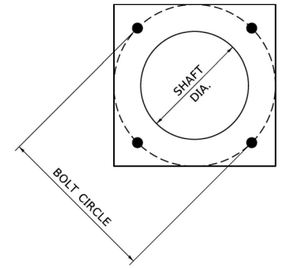

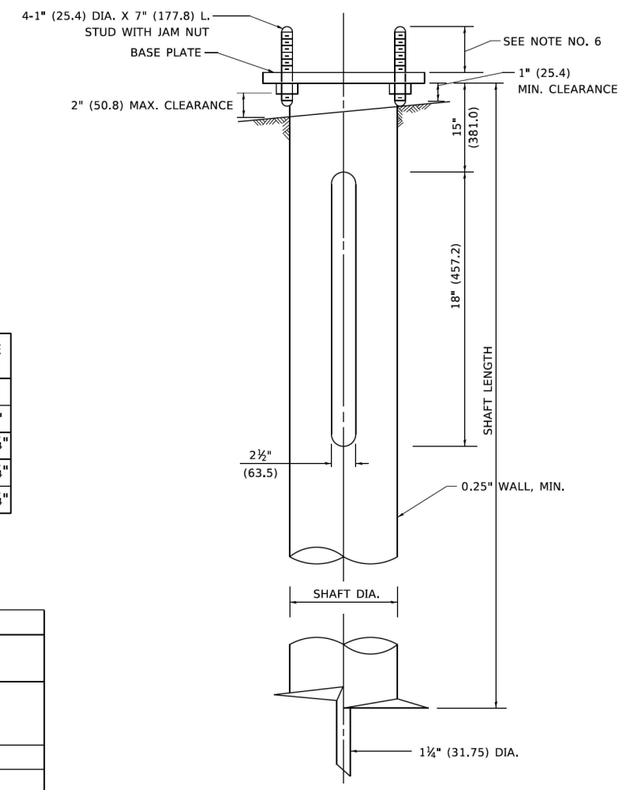

HELIX FOUNDATION SIZE

POLE MOUNTING HEIGHT	BOLT CIRCLE	SHAFT DIAMETER	SHAFT LENGTH	BASEPLATE
30 FT.	11½"	8⅝"	6 FT.	12"x12"x1"
31 FT.-35 FT.	11½"	8⅝"	6 FT.	12"x12"x1"
36 FT.-40FT.	15"	8⅝"	6 FT.	15"x15"x1¼"
41 FT.-45 FT.	15"	8⅝"	6 FT.	15"x15"x1¼"
46 FT.-50 FT.	15"	10"	8 FT.	15"x15"x1¼"

METAL HELIX FOUNDATION MATERIALS

ITEM	MATERIAL REQUIREMENT
BASEPLATE	AASHTO M 270M, GRADE 36 (M270M, GRADE 250)
SHAFT	ASTM A 252, GRADE 2 (PHOSPHOROUS 0.04% MAXIMUM, SULFUR 0.05% MAXIMUM)
HELIX SCREW	AASHTO M 183 (ASTM A 635)
PILOT POINT	AASHTO M 270 (ASTM A 575)
ANCHOR RODS/STUDS	AASHTO M 314 (ASTM F 1554)
HEXAGON NUTS	AASHTO M 291M (ASTM A 563) GRADE DH, OR AASHTO M 292 (ASTM A 194) GRADE 2H
WASHERS	AASHTO M 293 (ASTM F 436)

NOTES

1. ALL DIMENSION IN INCHES (MILLIMETERS) UNLESS OTHERWISE SHOWN.
2. ALL MATERIAL SHALL BE GALVINIZED ACCORDING TO AASHTO M111, UNLESS OTHERWISE SPECIFIED.
3. ALL WELDS SHALL BE CONTINUOUS AND NOT LESS THAN 1#4" (6.35 mm) FILLET WELDS. THE WELDED FOUNDATION SHALL BE CAPABLE OF WITHSTANDING 10,000 FT/LBS (13558.18 n.m) OF INSTALLATION TORQUE APPLIED ABOUT THE AXIS OF THE FOUNDATION.
4. THE HELIX FOUNDATION SHAFT SHALL BE INSTALLED VERTICAL AND THE BASE PLATE SHALL BE IN LEVEL. THE BREAKAWAY COUPLINGS AND HARDWARE SHALL NOT BE USED TO ALIGN THE POLE INSTALLATION.
5. THE CABLE TRENCH SHALL BE BACKFILLED AND FIRMLY COMPACTED BEFORE THE INSTALLATION OF THE LIGHT POLE.
6. THE CONTRACTOR SHALL COORDINATE EXTENSION OF ANCHOR BOLTS ABOVE TOP OF THE BASE PLATE WITH THE BREAKAWAY DEVICE MANUFACTURER'S REQUIREMENTS.
7. ANY VOIDS WITHIN THE METAL FOUNDATION SHALL BE FILLED WITH FINE AGGREGATE.
8. METAL FOUNDATIONS SHALL BE INSTALLED IN UNDISTURBED SOIL. PREDRILLING A PILOT HOLE AND/OR BACKFILLING AROUND THE FOUNDTION IS NOT ALLOWED.
9. THE METAL FOUNDATION SHALL NOT BE INSTALLED TO A TORQUE WHICH EXCEEDS THE MANUFACTURER'S MAXIMUM TORQUE RATING NOR SHALL IT BE INSTALLED TO AN INSTALLATION TORQUE VALUE OF LESS THAN 3,500 FT LB (4,750 KNM). METAL FOUNDATIONS THAT ARE NOT INSTALLED TO FULL INSTALLATION DEPTH OR DO NOT ACHIEVE THE MINIMUM INSTALLATION TORQUE SHALL BE REMOVED AND REPLACED WITH A CONCRETE FOUNDATION AT NO ADDITIONAL COST.
10. THE BASEPLATE SHALL BE PERPENDICULAR TO THE SHAFT AXIS (± 1°) AND THE HOLE CENTERLINE SHALL BE CONCENTRIC (± 0.188) TO THE SHAFT AXIS.
11. THE PILOT POINT AND SHAFT AXIS SHALL BE CONCENTRIC (± 0.125) AND IN LINE (± 2°).
12. THE BASEPLATE SHALL BE STAMPED WITH THE MANUFACTURERS NAME AND DATE OF MANUFACTURE.

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STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

LIGHT POLE FOUNDATION, METAL

SCALE: NONE | SHEET 1 OF 1 SHEETS | STA. TO STA.

F.A. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
	BE-305	CONTRACT NO.		
	ILLINOIS	FED. AID PROJECT		

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TranSmart
100 S. Wacker Drive Suite 400
Chicago, Illinois 60606

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STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

DISTRICT 1 DETAILS
BE-305

SCALE: 1" = 50' | SHEET OF SHEETS | STA. TO STA.

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
326	2024-1052-N,C,SW,FL	MCHENRY	941	854
		CONTRACT NO. 62X94		
	ILLINOIS	FED. AID PROJECT		

FOUNDATION DESIGN TABLE

TYPE OF SOIL	DESIGN DEPTH OF FOUNDATION		REINFORCEMENT IN FOUNDATION			
	SINGLE ARM D	TWIN ARM D	SINGLE ARM		TWIN ARM	
			VERT BARS	SPIRAL	VERT BARS	SPIRAL
SOFT CLAY	13'-0" (3.962 m)	15'-0" (4.572 m)	8-#6X12'-6" (3.810 m)	#3X122' (37.186 m)	8-#6X14'-3" (4.343 m)	#3X141' (42.977 m)
MEDIUM CLAY	9'-6" (2.896 m)	10'-9" (3.277 m)	8-#6X9'-0" (2.743 m)	#3X90' (27.432 m)	8-#6X10'-0" (3.048 m)	#3X100' (30.480 m)
STIFF CLAY	7'-0" (2.134 m)	8'-0" (2.438 m)	8-#6X6'-6" (1.981 m)	#3X66' (20.112 m)	8-#6X7'-6" (2.286 m)	#3X76' (23.165 m)
LOOSE SAND	9'-0" (2.743 m)	10'-0" (3.048 m)	8-#6X8'-6" (2.591 m)	#3X85' (25.908 m)	8-#6X9'-6" (2.896 m)	#3X94' (28.651 m)
MEDIUM SAND	8'-3" (2.515 m)	9'-0" (2.743 m)	8-#6X8'-0" (2.438 m)	#3X78' (23.774 m)	8-#6X8'-6" (2.591 m)	#3X85' (25.908 m)
DENSE SAND	7'-9" (2.362 m)	9'-0" (2.743 m)	8-#6X7'-6" (2.286 m)	#3X73' (22.250 m)	8-#6X8'-6" (2.591 m)	#3X85' (25.908 m)
ROCK OR SOLIDIFIED SLAG	5'-0" (1.524 m)	5'-0" (1.524 m)	NONE	NONE	NONE	NONE

BILL OF MATERIAL

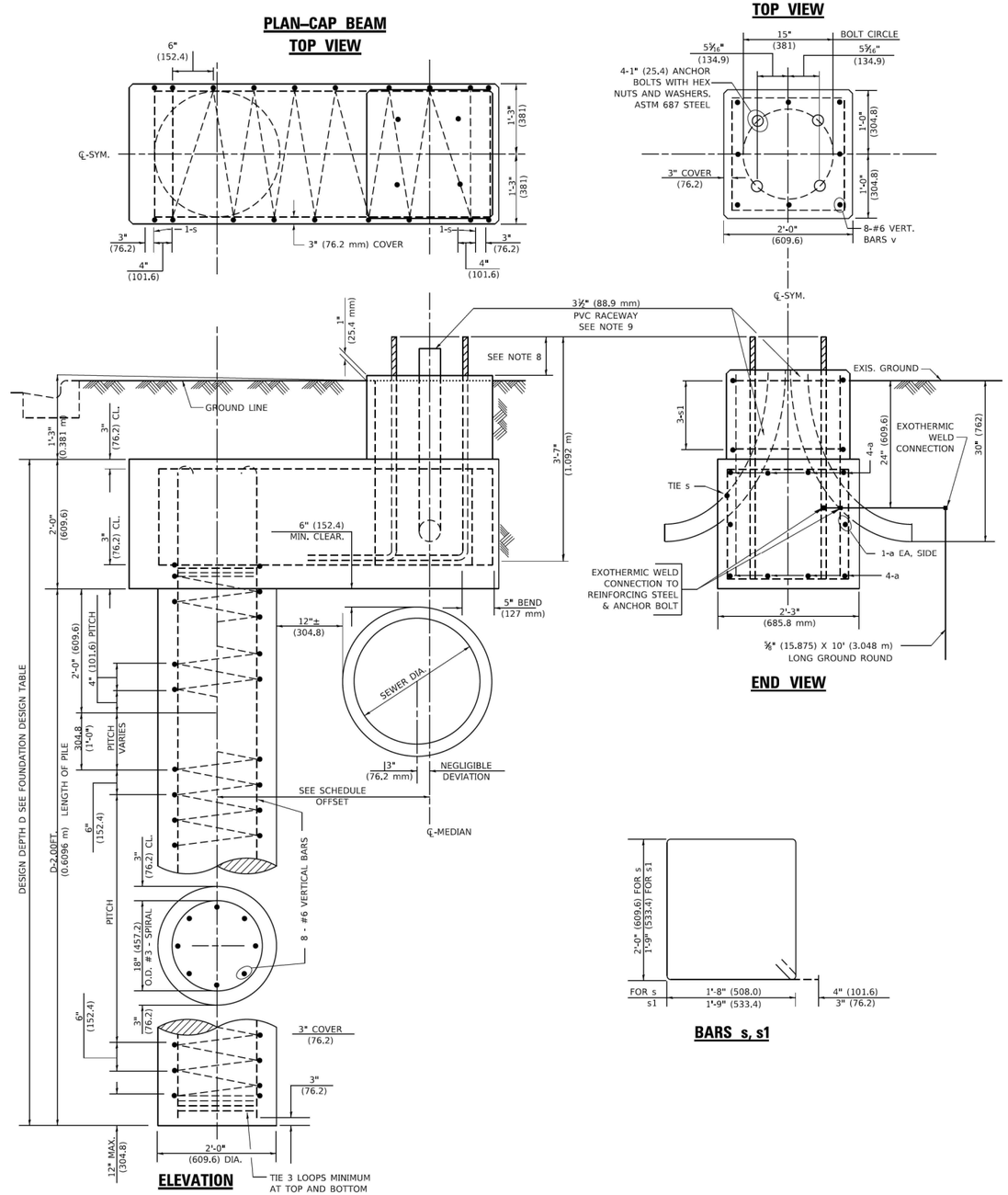
MARK	NO.	SIZE	LENGTH	SHAPE
a	10	6	SEE BELOW	—
s	12	4	8'-0" (2.438 m)	▭
s_1	3	3	7'-6" (2.286 m)	▭
v_1	8	6	2'-9" (0.838 m)	—
v_2				

OFFSET SCHEDULE

SEWER DIAM. d IN.	PILE OFFSET from ℄-MED'N FT.	LENGTH of BAR a FT.
UP TO 24" (609.6 mm)	3'-3" (0.991 m)	#6 x 5'-3" (1.600 m)
27" (685.8 m)TO 36" (914.4 mm)	3'-9" (1.143 m)	5'-9" (1.753 m)
42" (1066.8 mm) TO 48" (1219.2 mm)	4'-6" (1.372 m)	6'-6" (1.981 m)
54" (1371.6 mm) TO 60" (1524.0 mm)	5'-0" (1.524 m)	7'-0" (2.134 m)
66" (1676.4 mm) TO 72" (1828.8 mm)	5'-6" (1.676 m)	7'-6" (2.286 m)

NOTES

1. ALL DIMENSIONS ARE IN INCHES (MILLIMETERS) UNLESS OTHERWISE SHOWN.
2. THE ENGINEER SHALL DETERMINE THE CLASS OF SOIL DURING EXCAVATION AND SELECT THE DESIGN DEPTH OF FOUNDATION FROM THE DESIGN TABLE.
3. EXCAVATION OF THE POLE FOUNDATION SHALL BE MADE WITH AN AUGER, 24" (609.6 mm) OR 30" (762.0 mm) IN DIAMETER.
4. THE ANCHOR ROD SHALL BE A HOOK ROD TYPE. COLD BENDING OF THE ANCHOR ROD WILL NOT BE ALLOWED. THE RADIUS OF THE HOOK BEND SHALL NOT BE LESS THAN 4 TIMES THE NOMINAL DIAMETER OF THE ANCHOR ROD. A TACK WELDED ANCHOR ROD MAY BE SUBSTITUTED WITH THE APPROVAL OF THE ENGINEER.
5. THE ANCHOR BOLTS AND RACEWAYS SHALL BE PROPERLY SECURED IN PLACE BEFORE THE CONCRETE IS PLACED IN THE FORM.
6. THE ANCHOR RODS SHALL BE ACCORDING TO ASTM F1554 GRADE 725 (GRADE 105). NUTS SHALL BE HEXAGON NUTS ACCORDING TO ASTM A 194 2H OR ASTM A 563 DH, AND WASHERS SHALL BE ACCORDING TO ASTM F 436.
7. THE CONTRACTOR SHALL COORDINATE EXTENSION OF ANCHOR BOLTS ABOVE TOP OF FOUNDATION WITH THE BREAKAWAY DEVICE MANUFACTURER'S REQUIREMENTS. IF LIGHT POLE IS MOUNTED WITHOUT BREAKAWAY DEVICE, ANCHOR BOLTS SHALL PROJECT 23#4" (69.9 mm) ABOVE TOP OF THE FOUNDATION. THE CONTRACTOR SHALL CONFIRM ANCHOR BOLT EXTENTION WITH ENGINEER.
8. RACEWAYS SHALL PROJECT 1" (25.4 mm) ABOVE THE TOP OF THE FOUNDATION.
9. THE CABLE TRENCH SHALL BE BACKFILLED AND FIRMLY COMPACTED BEFORE THE LIGHT IS ERECTED.



USER NAME = footem]	DESIGNED -	REVISED - R.TOMSONS 6-16-08	STATE OF ILLINOIS DEPARTMENT OF TRANSPORTATION	LIGHT POLE FOUNDATION OFFSET 40' (12.192m) TO 47 1/2' (14.478m) M.H., 15" (381mm) BOLT CIRCLE	F.A. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
	DRAWN -	REVISED -				BE310	CONTRACT NO.		
PLOT SCALE = 50.0000 ' / in.	CHECKED -	REVISED -							
PLOT DATE = 4/19/2019	DATE -	REVISED -		SCALE: NONE SHEET 1 OF 1 SHEETS STA. TO STA.		ILLINOIS FED. AID PROJECT			

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USER NAME = MTodden	DESIGNED - MK	REVISED -	TranSmart 100 S. Wacker Drive Suite 400 Chicago, Illinois 60606	STATE OF ILLINOIS DEPARTMENT OF TRANSPORTATION	DISTRICT 1 DETAILS BE–310	F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
	DRAWN - MT	REVISED -				326	2024-1052-N,C,SW,FL	MCHENRY	941	855
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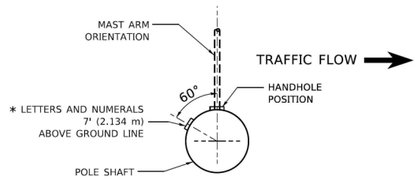
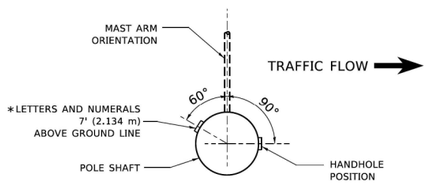
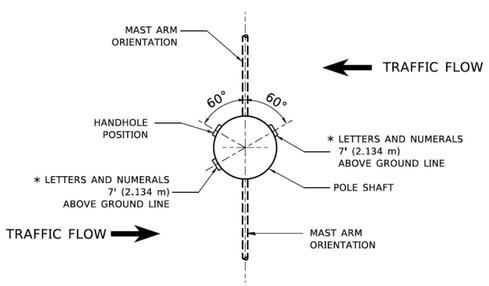
PLOT DATE = 2/5/2025	DATE - 02/06/2025	REVISED -			SCALE: 1" = 50' SHEET OF SHEETS STA. TO STA.		ILLINOIS FED. AID PROJECT			



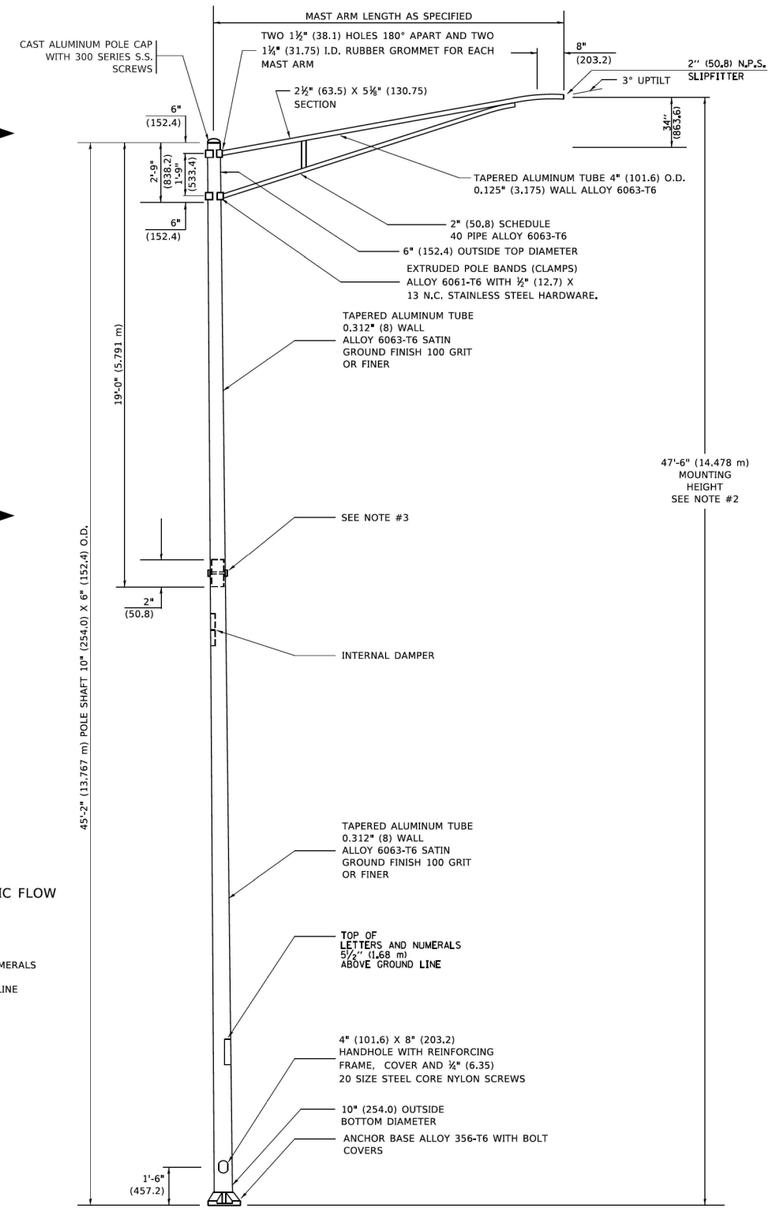
POSITION OF HANDHOLE AND POLE NUMBER FOR SINGLE MAST ARM POLES MOUNTED ON BRIDGE PARAPET OR BARRIER WALL

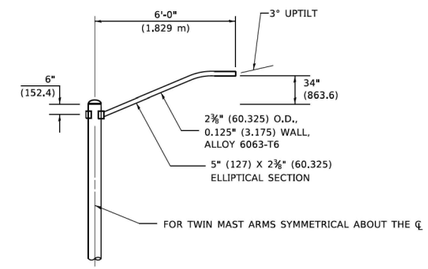


POSITION OF HANDHOLE AND POLE NUMBER FOR SINGLE MAST ARM POLES



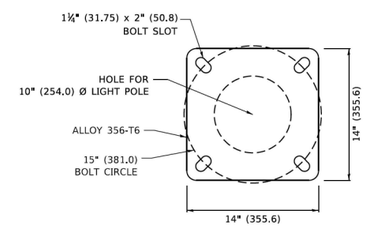
POSITION OF HANDHOLE AND POLE NUMBER FOR TWIN MAST ARM POLES





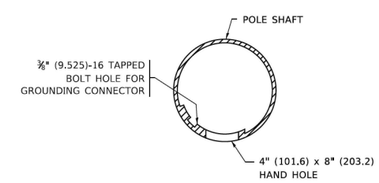
6′ (1.8 m) SINGLE MEMBER MAST ARM

(N.T.S.)



LIGHT POLE BASE PLATE DETAIL

15 INCH (381.0) BOLT CIRCLE



HANDHOLE DETAIL

(N.T.S.)

NOTES

1. ALL DIMENSIONS ARE IN INCHES (MILLIMETERS) UNLESS OTHERWISE SHOWN.
2. MOUNTING HEIGHT IS DEFINED AS THE DISTANCE FROM THE CENTERLINE OF THE TENON TO THE BOTTOM OF THE ANCHOR BASE.
3. TWO PIECE SHAFT WILL BE MATCHED MARKED AND INTERCHANGEABLE BETWEEN DIFFERENT UNITS. FIELD DRILLING OF THE HOLES WILL NOT BE ALLOWED.
4. THE LIGHT POLE WILL MEET AASHTO DESIGN CRITERIA AS SPECIFIED.
5. THE INSTALLING CONTRACTOR WILL PROVIDE A UL LISTED GROUNDING CONNECTOR. BURNDY K2C23, T&B SP4DL OR APPROVED EQUAL.
6. LIGHT POLES WILL NOT BE INSTALLED WITHOUT MAST ARMS AND LUMINAIRES.
7. LIGHT POLES WILL BE SET PLUMB ON THE FOUNDATION WITHOUT THE USE OF LEVELING NUTS, WASHERS OR SHIMS.
8. LIGHTING UNIT IDENTIFICATION NUMBERS SHALL BE INSTALLED BEFORE THE LIGHTING UNIT IS ENERGIZED.

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	DRAWN -	REVISED - R. TOMSONS 09-03-03			
PLOT SCALE = 50.0000 ' / in.	CHECKED -	REVISED - R. TOMSONS 01-18-13			BE–400 / CONTRACT NO.
PLOT DATE = 4/19/2019	DATE -	REVISED - R. TOMSONS 03-18-15		SCALE: NONE / SHEET 1 OF 1 SHEETS / STA. / TO STA.	ILLINOIS / FED. AID PROJECT

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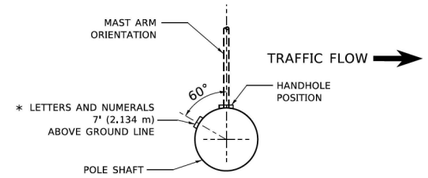
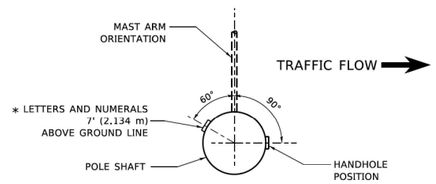
TranSmart
100 S. Wacker Drive Suite 400
Chicago, Illinois 60606

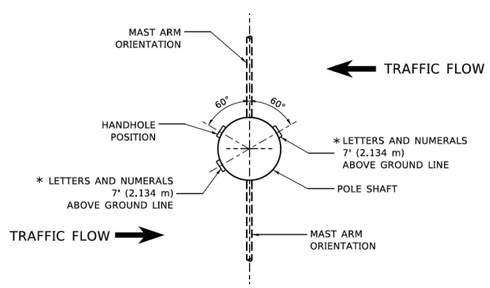
USER NAME = MTadden	DESIGNED - MK	REVISED -	STATE OF ILLINOIS DEPARTMENT OF TRANSPORTATION	DISTRICT 1 DETAILS BE–400	F.A.P. RTE. / SECTION / COUNTY / TOTAL SHEETS / SHEET NO.
	DRAWN - MT	REVISED -			
PLOT SCALE = 100.0000 ' / in.	CHECKED - MR	REVISED -			326 / 2024-1052-N,C,SW,FL / MCHENRY / 941 / 856
PLOT DATE = 2/5/2025	DATE - 02/06/2025	REVISED -		SCALE: 1" = 50' / SHEET OF SHEETS / STA. / TO STA.	CONTRACT NO. 62X94
					ILLINOIS / FED. AID PROJECT



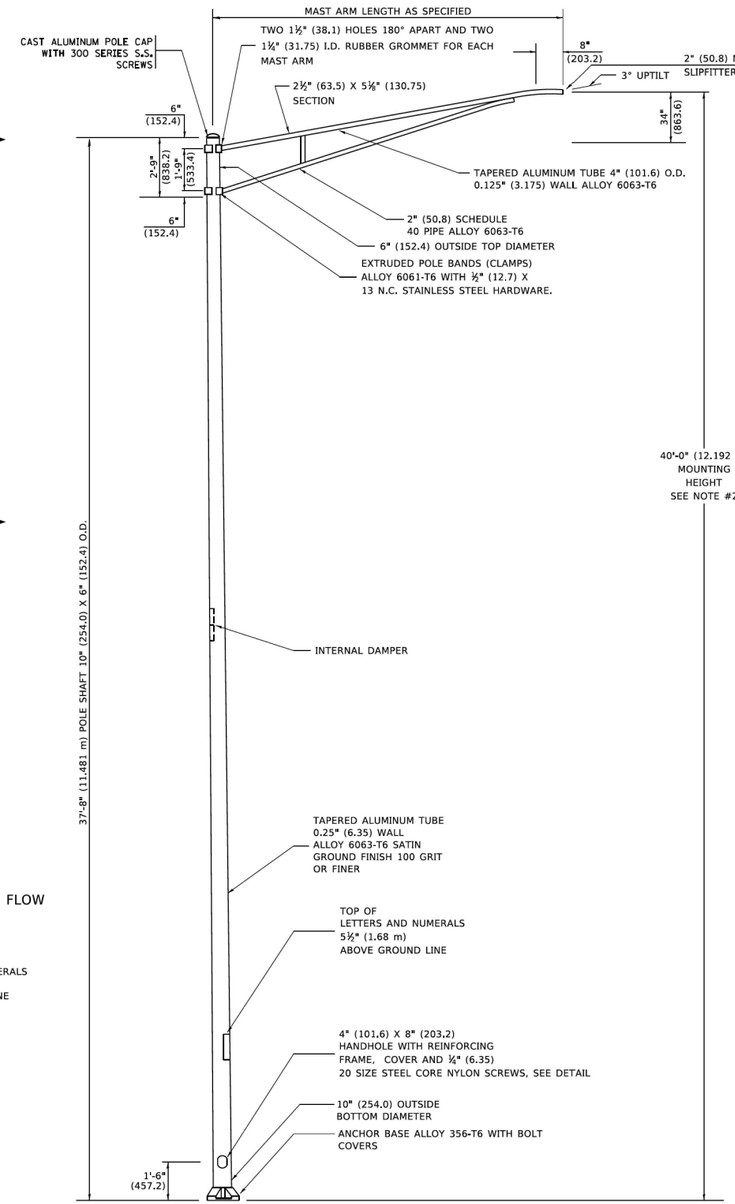
POSITION OF HANDHOLE AND POLE NUMBER FOR SINGLE MAST ARM POLES MOUNTED ON BRIDGE PARAPET OR BARRIER WALL

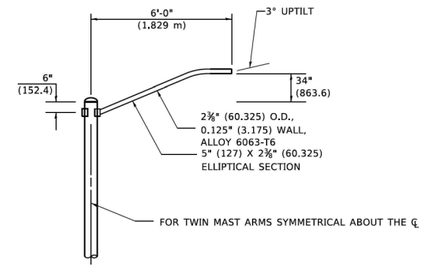


POSITION OF HANDHOLE AND POLE NUMBER FOR SINGLE MAST ARM POLES



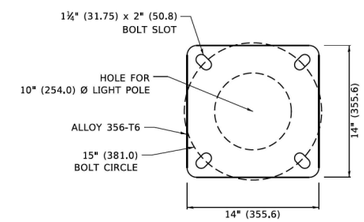
POSITION OF HANDHOLE AND POLE NUMBER FOR TWIN MAST ARM POLES





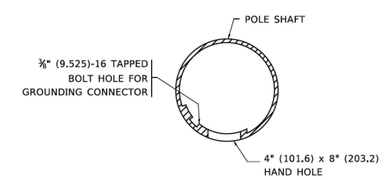
6' (1.8 m) SINGLE MEMBER MAST ARM

(N.T.S.)



LIGHT POLE BASE PLATE DETAIL

15 INCH (381.0) BOLT CIRCLE



HANDHOLE DETAIL

(N.T.S.)

NOTES

1. ALL DIMENSIONS ARE IN INCHES (MILLIMETERS) UNLESS OTHERWISE SHOWN.
2. MOUNTING HEIGHT IS DEFINED AS THE DISTANCE FROM THE CENTERLINE OF THE TENON TO THE BOTTOM OF THE ANCHOR BASE.
3. THE LIGHT POLE WILL MEET AASHTO DESIGN CRITERIA AS SPECIFIED.
4. THE INSTALLING CONTRACTOR WILL PROVIDE A UL LISTED GROUNDING CONNECTOR. BURNDY K2C23, T&B SP4DL OR APPROVED EQUAL.
5. LIGHT POLES WILL NOT BE INSTALLED WITHOUT MAST ARMS AND LUMINAIRES.
6. LIGHT POLES WILL BE SET PLUMB ON THE FOUNDATION WITHOUT THE USE OF LEVELING NUTS, WASHERS OR SHIMS.
7. LIGHTING UNIT IDENTIFICATION NUMBERS SHALL BE INSTALLED BEFORE THE LIGHTING UNIT IS ENERGIZED.

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USER NAME = footemj	DESIGNED -	REVISED - R. TOMSONS 09-06-00	STATE OF ILLINOIS DEPARTMENT OF TRANSPORTATION	ALUMINUM LIGHT POLE 40'-0" (12.192 m) MOUNTING HEIGHT	F.A. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
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TranSmart
100 S. Wacker Drive Suite 400
Chicago, Illinois 60606

USER NAME = MTadden	DESIGNED - MK	REVISED -	STATE OF ILLINOIS DEPARTMENT OF TRANSPORTATION	DISTRICT 1 DETAILS BE-401	F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
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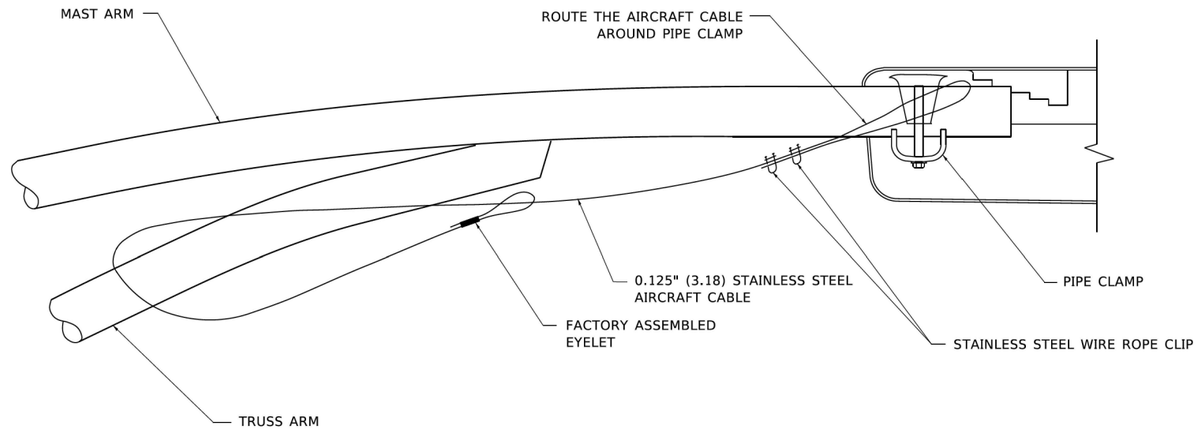
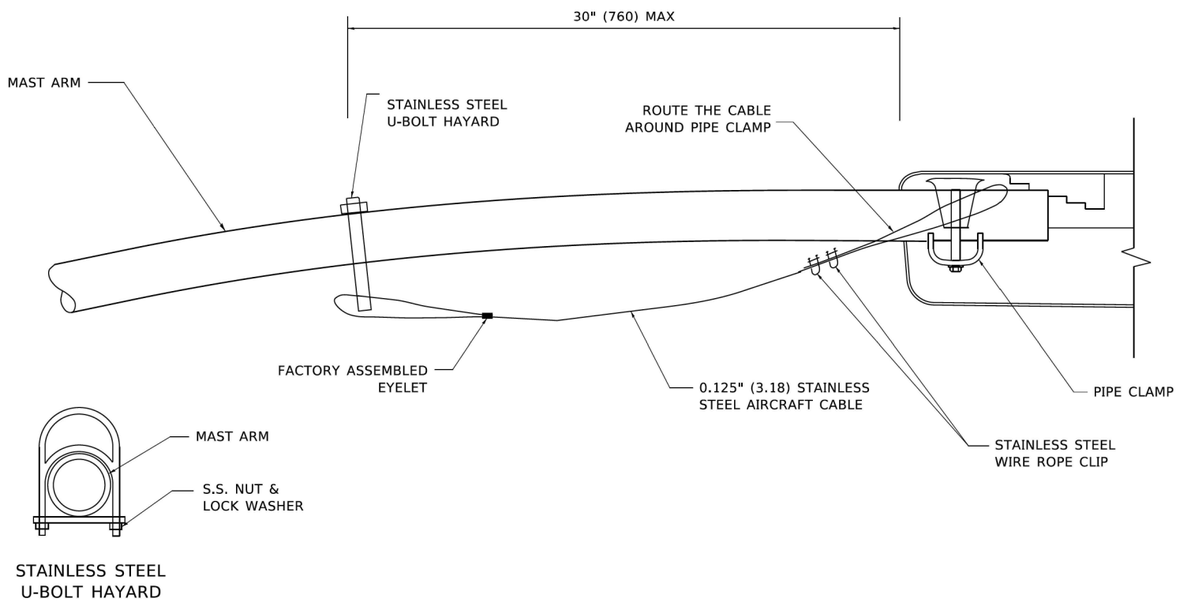
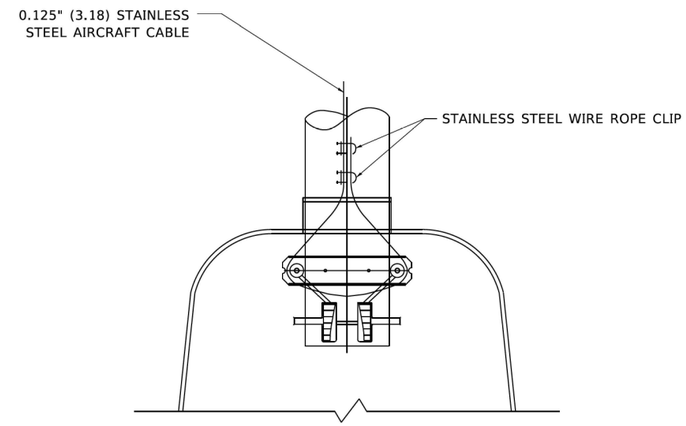


SIDE VIEW (TRUSS ARM)
N.T.S.



SIDE VIEW (SINGLE MEMBER OR DAVIT ARM)
N.T.S.



BOTTOM VIEW
N.T.S.

NOTES:

1. ALL DIMENSIONS ARE IN MILLIMETERS (INCHES) UNLESS OTHERWISE SHOWN.
2. CONTRACTOR SHALL ADJUST THE WIRE CLIP TO ELIMINATE ANY SLACK FROM THE WIRE ROPE.
3. THE 0.125" (3.18) STAINLESS STEEL AIRCRAFT CABLE SHALL REMAIN VISIBLE FROM THE GROUND LEVEL.
4. THE BREAKING STRENGTH OF THE CABLE SHALL BE 1700 LBS. MIN.

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	DRAWN -	REVISED -							
PLOT SCALE = 50.0000 ' / in.	CHECKED -	REVISED -				BE-701	CONTRACT NO.		
PLOT DATE = 4/19/2019	DATE -	REVISED -		SCALE: NONE SHEET 1 OF 1 SHEETS STA. TO STA.			ILLINOIS	FED. AID PROJECT	

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TranSmart 100 S. Wacker Drive Suite 400 Chicago, Illinois 60606	USER NAME = MTadden	DESIGNED - MK	REVISED -	STATE OF ILLINOIS DEPARTMENT OF TRANSPORTATION	DISTRICT 1 DETAILS BE-701	F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
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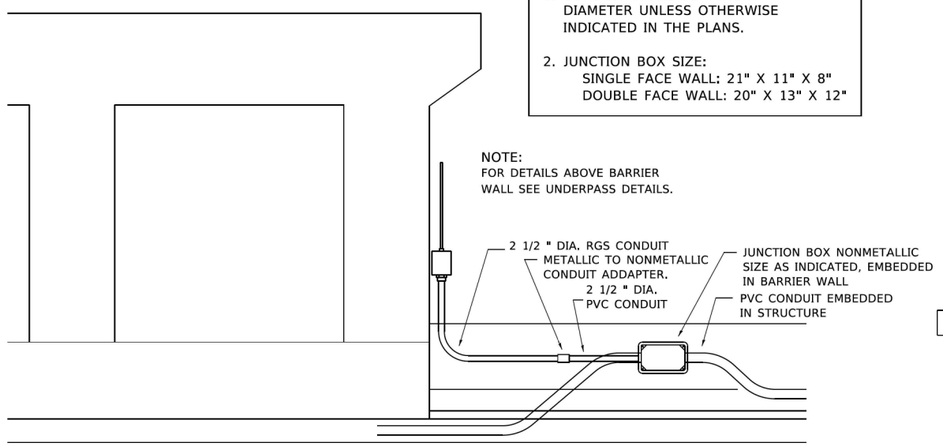
	PLOT DATE = 2/5/2025	DATE - 02/06/2025	REVISED -		SCALE: 1" = 50' SHEET OF SHEETS STA. TO STA.			ILLINOIS	FED. AID PROJECT	

NOTES

1. CONDUIT SHALL BE 4-INCH DIAMETER UNLESS OTHERWISE INDICATED IN THE PLANS.
2. JUNCTION BOX SIZE:
   SINGLE FACE WALL: 21" X 11" X 8"
   DOUBLE FACE WALL: 20" X 13" X 12"

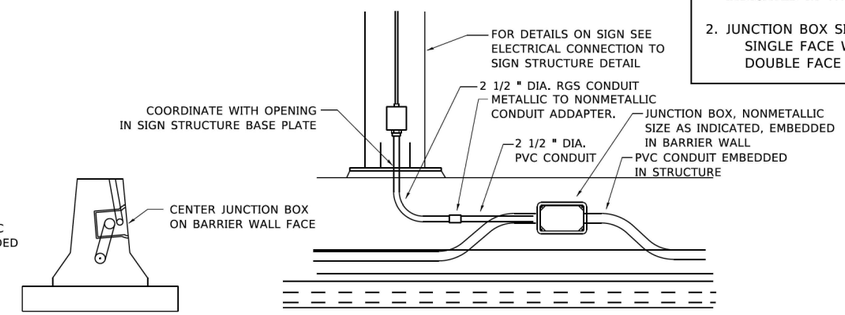


ED - BWD

ELECTRIC CONNECTION TO UNDERPASS LIGHTING

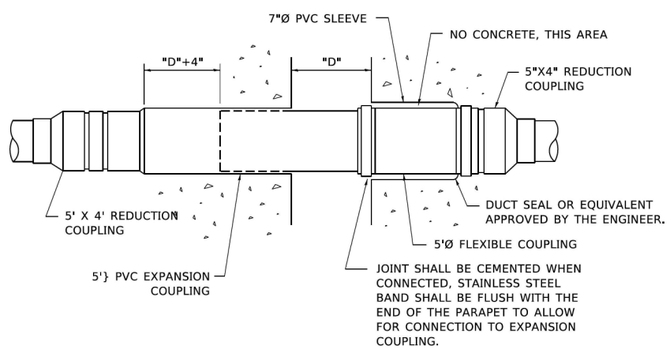
NOTES

1. CONDUIT SHALL BE 4-INCH DIAMETER UNLESS OTHERWISE INDICATED IN THE PLANS.
2. JUNCTION BOX SIZE:
   SINGLE FACE WALL: 21" X 11" X 8"
   DOUBLE FACE WALL: 20" X 13" X 12"



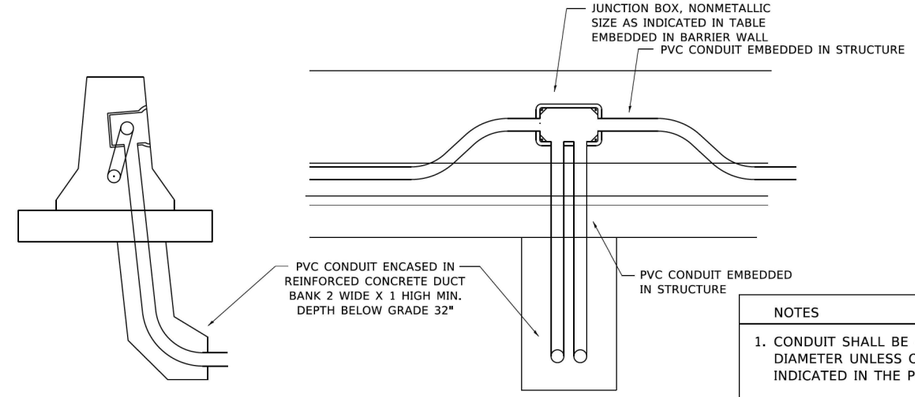
ED - SGN

JUNCTION BOX EMBEDDED IN BARRIER WALL FOR SIGN LIGHTING



INSTALLATION OF CONDUIT IN BRIDGE PARAPET EXPANSION JOINT

(N.T.S.)



NOTES

1. CONDUIT SHALL BE 4-INCH DIAMETER UNLESS OTHERWISE INDICATED IN THE PLANS.
2. JUNCTION BOX SIZE:
   SINGLE FACE WALL: 21" X 11" X 8"
   DOUBLE FACE WALL: 20" X 13" X 12"

ED - BW

JUNCTION BOX EMBEDDED IN BARRIER WALL

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	DRAWN -	REVISED -			BE-703 / CONTRACT NO.
PLOT SCALE = 50.0000 ' / in.	CHECKED -	REVISED -			
PLOT DATE = 4/19/2019	DATE - 01-20-2009	REVISED -		SCALE: NONE / SHEET 1 OF 1 SHEETS / STA. / TO STA.	ILLINOIS FED. AID PROJECT

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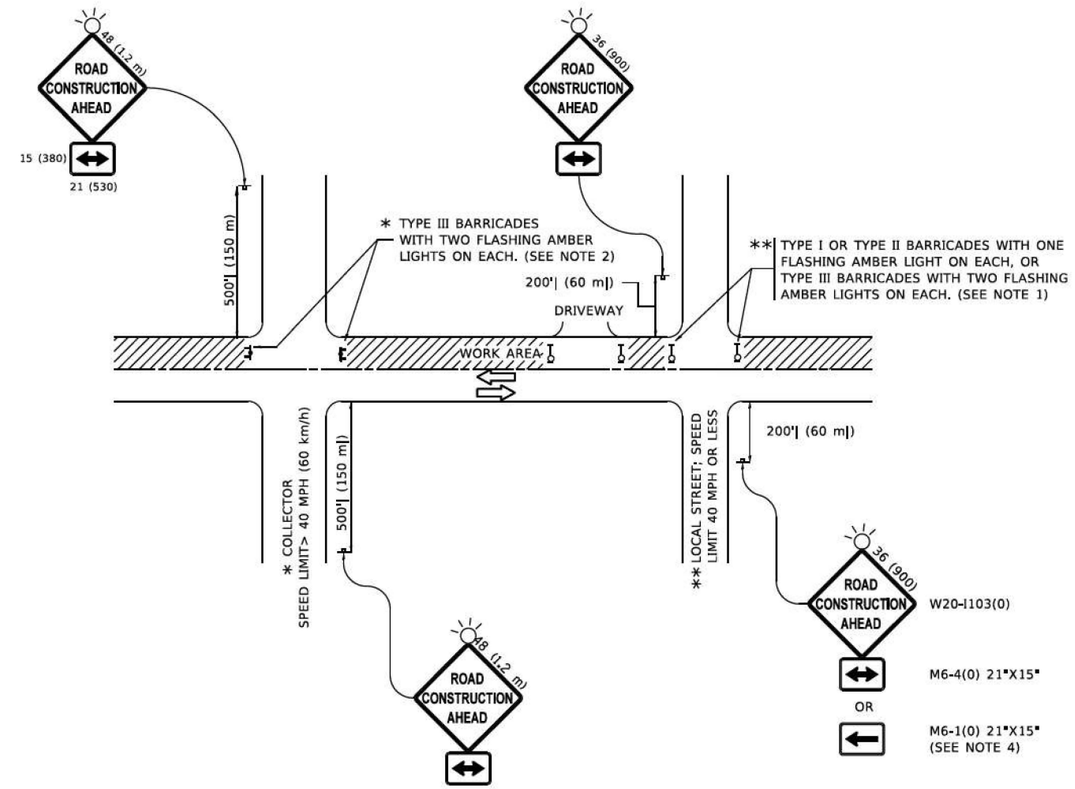
TranSmart
100 S. Wacker Drive Suite 400
Chicago, Illinois 60606

USER NAME = MTadden	DESIGNED - MK	REVISED -	STATE OF ILLINOIS DEPARTMENT OF TRANSPORTATION	DISTRICT 1 DETAILS BE–703	F.A.P. RTE. / SECTION / COUNTY / TOTAL SHEETS / SHEET NO.
	DRAWN - MT	REVISED -			326 / 2024-1052-N,C,SW,FL / MCHENRY / 941 / 859
PLOT SCALE = 100.0000 ' / in.	CHECKED - MR	REVISED -			CONTRACT NO. 62X94
PLOT DATE = 2/5/2025	DATE - 02/06/2025	REVISED -		SCALE: 1" = 50' / SHEET OF SHEETS / STA. / TO STA.	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.

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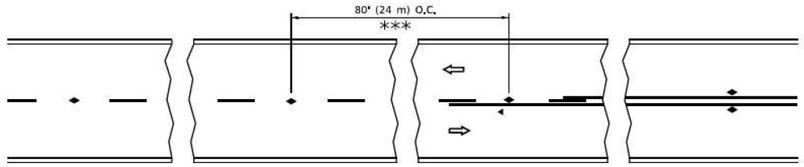
	DRAWN -	REVISED - A. SCHUETZE 07-01-13	
PLOT SCALE = 100.0000 ' / in.	CHECKED -	REVISED - A. SCHUETZE 09-15-16	
PLOT DATE = 5/3/2024	DATE - 06-89	REVISED - D. SENDERAK 05-03-24	

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

SCALE: NONE | SHEET 1 OF 1 SHEETS | STA. TO STA.

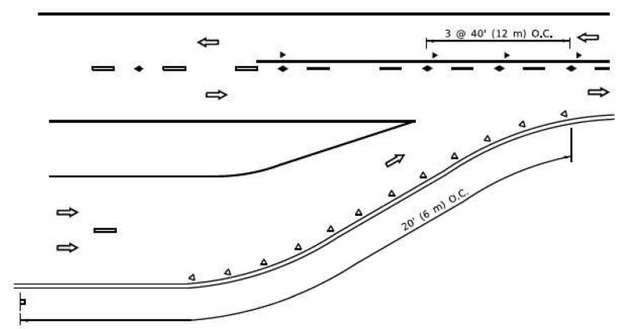
F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
326	(104 & 105)WRS-9(13)	MCHENRY	941	860
	TC-10	CONTRACT NO. 60X17		
		ILLINOIS FED. AID PROJECT		



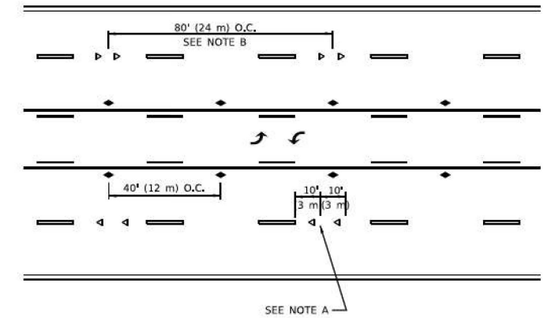
*** REDUCE TO 40' (12 m) O.C. ON CURVES WITH POSTED OR ADVISORY SPEED 45 M.P.H. (70 km/h) OR LESS.

TWO–LANE/TWO–WAY

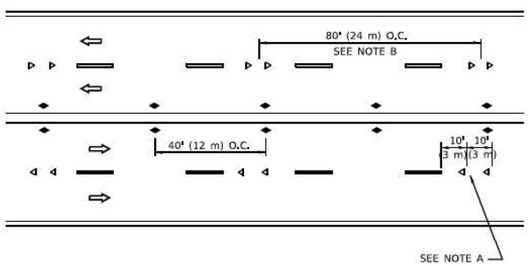
SEE FIGURE 3B-14 MUTCD



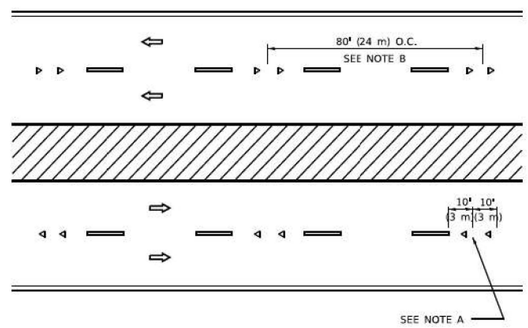
LANE REDUCTION TRANSITION



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.
4. MARKERS ARE TO BE USED ADJACENT TO BOTH SOLID WHITE LINES IN DUAL LEFT TURN LANES

SYMBOLS

- YELLOW STRIPE
- WHITE STRIPE
- ONE-WAY AMBER MARKER
- ONE-WAY CRYSTAL MARKER (W/O)
- TWO-WAY AMBER MARKER

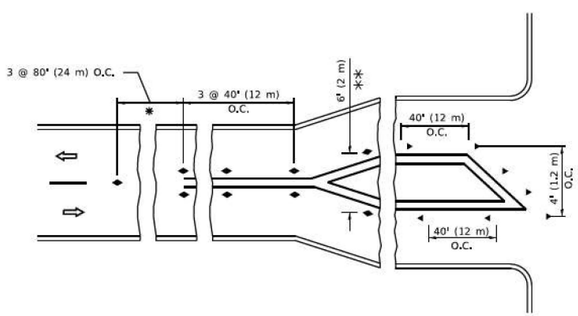
LANE MARKER NOTES

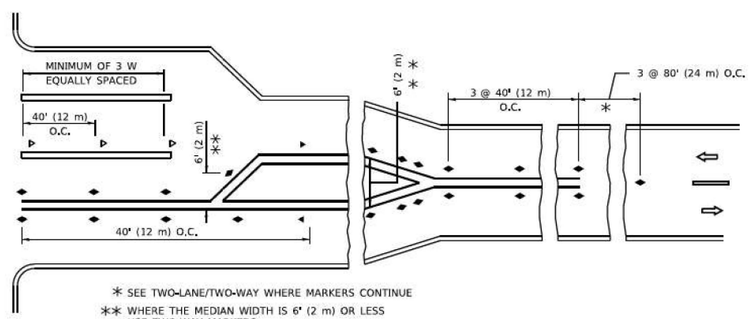
A. USE DOUBLE LANE LINE MARKERS SPACED AS SHOWN.

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.

TURN LANES

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

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	DRAWN -	REVISED - T. RAMMACHER 01-06-00		
PLOT SCALE = 50.0000 ' / in.	CHECKED -	REVISED - C. JUCIUS 09-09-09		
PLOT DATE = 3/4/2019	DATE -	REVISED - C. JUCIUS 07-01-13		SCALE: NONE SHEET 1 OF 1 SHEETS STA. TO STA.

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
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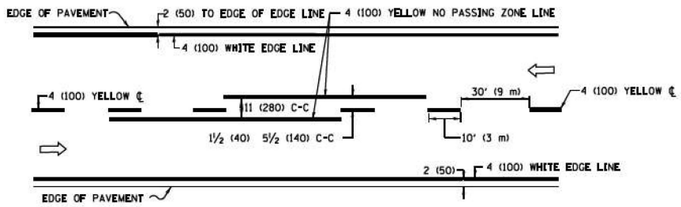
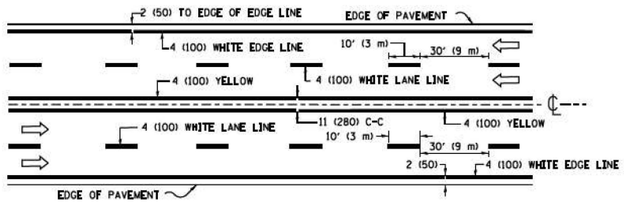
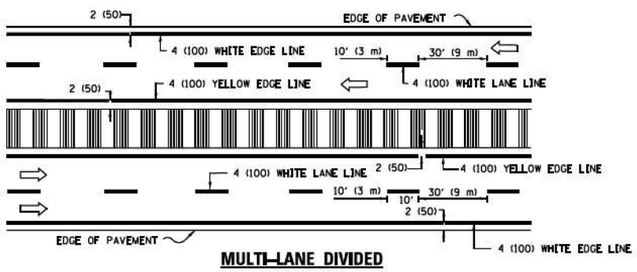
TC-11		CONTRACT NO. 60X17		
		ILLINOIS FED. AID PROJECT		



2–LANE ROADWAY

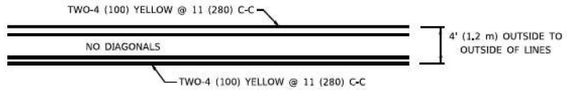


MULTI–LANE UNDIVIDED

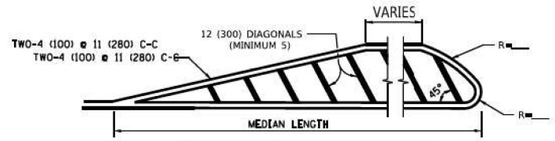


MULTI–LANE DIVIDED
WITH MEDIAN

TYPICAL LANE AND EDGE LINE MARKING



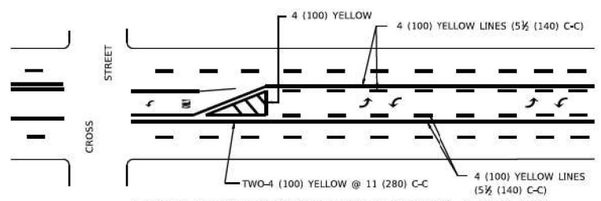
4' (1.2 m) WIDE MEDIANS ONLY



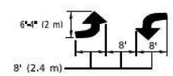
FOR MEDIAN LENGTHS WHERE DIAGONAL SPACING CANNOT BE ATTAINED, USE 5 (FIVE) EQUALLY SPACED DIAGONAL LINES.

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

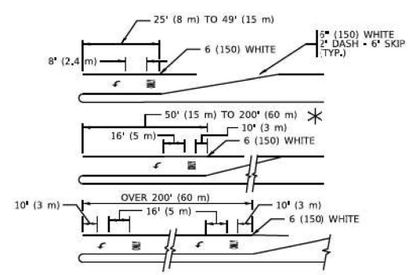


A MINIMUM OF TWO PAIRS OF TURN ARROWS SHALL BE USED, WHITE IN COLOR. ADDITIONAL PAIRS SHALL BE PLACED AT 200' (60 m) TO 300' (90 m) INTERVALS.



MEDIAN WITH TWO–WAY LEFT TURN LANE

TYPICAL PAINTED MEDIAN MARKING

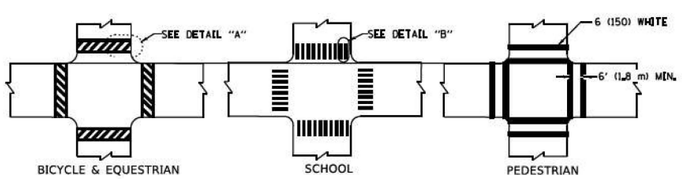


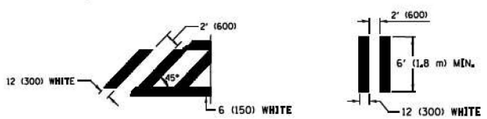
FULL SIZE LETTERS 8' (2.4 m) AND ARROWS SHALL BE USED.
AREA = 15.6 SQ. FT. (1.5 m²) AREA = 20.8 SQ. FT. (1.9 m²)

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

TYPICAL LEFT (OR RIGHT) TURN LANE

TYPICAL TURN LANE MARKING

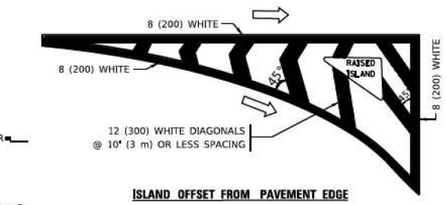




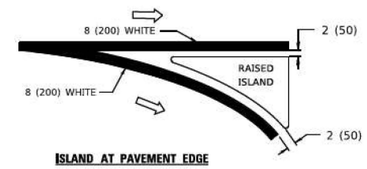
DETAIL "A" **DETAIL "B"**

TYPICAL CROSSWALK MARKING

* MARKINGS SHALL BE INSTALLED PARALLEL TO THE CENTERLINE OF THE ROAD WHICH IT CROSSES

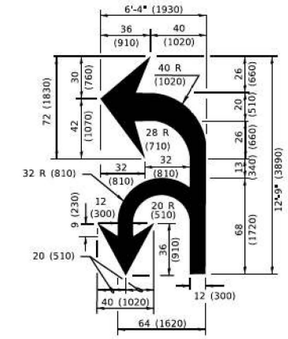


ISLAND OFFSET FROM PAVEMENT EDGE

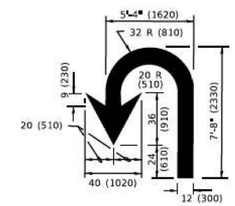


ISLAND AT PAVEMENT EDGE

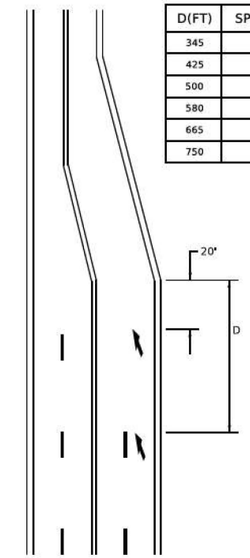
TYPICAL ISLAND MARKING



COMBINATION LEFT AND U–TURN



U–TURN



D(FT)	SPEED LIMIT
345	30
425	35
500	40
580	45
665	50
750	55

LANE REDUCTION TRANSITION

* LANE REDUCTION ARROWS REQUIRED AT SPEEDS OF 45 MPH OR GREATER OR WHEN SPECIFIED IN PLANS.

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 m²) EACH "X"=54.0 SQ. FT. (5.0 m²)
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.

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	DRAWN -	REVISED - C. JUCIUS 07-01-13	
PLOT SCALE = 50.0000 ' / in.	CHECKED -	REVISED - C. JUCIUS 12-21-15	
PLOT DATE = 3/4/2019	DATE - 03-19-90	REVISED - C. JUCIUS 04-12-16	

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

DISTRICT ONE
TYPICAL PAVEMENT MARKINGS

SCALE: NONE | SHEET 1 OF 2 SHEETS | STA. TO STA.

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
326	(104 & 105)WRS-9(13)	MCHENRY	941	862
TC–13		CONTRACT NO. 60X17		
		ILLINOIS FED. AID PROJECT		

TURN BAY ENTRANCE AT START OF LANE CLOSURE TAPER

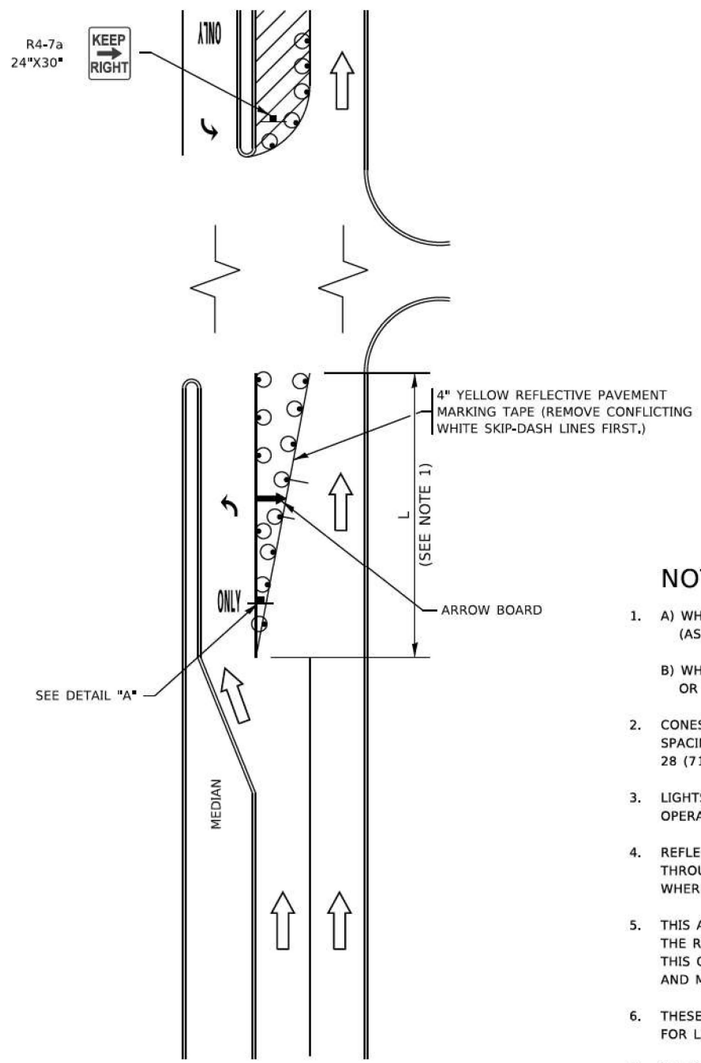


FIGURE 1

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.

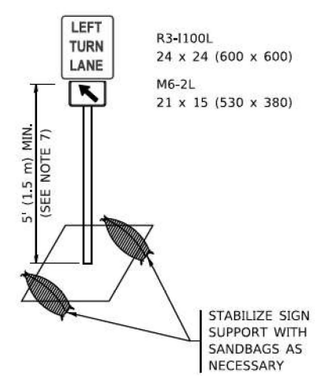
4. REFLECTIVE TEMPORARY PAVEMENT MARKINGS SHALL BE PLACED THROUGHOUT THE BARRICADED AREAS OF EACH TURN BAY AS SHOWN WHERE THE CLOSURE TIME IS GREATER THAN FOURTEEN (14) DAYS.

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-I100R 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.



DETAIL A

TURN BAY ENTRANCE WITHIN A LANE CLOSURE

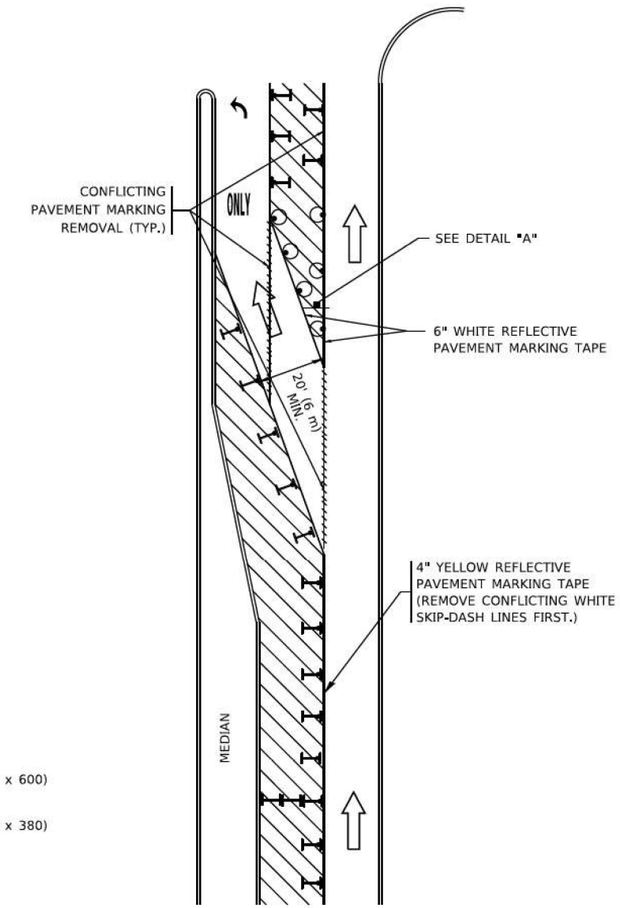


FIGURE 2

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

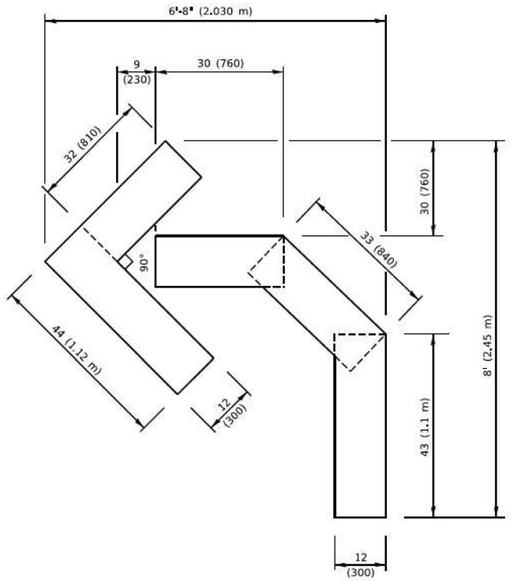
MODEL: Default
FILE NAME: pw:\\IL084EBIDINTEG.illinois.gov:PWIDOT\Documents\IDOT Offices\District 1\Projects\StdSlx22x34\CADData\CADsheets\tc14.dgn

USER NAME = footemj	DESIGNED - T. RAMMACHER 09-08-94	REVISED - R. BORO 09-14-09	STATE OF ILLINOIS DEPARTMENT OF TRANSPORTATION
	DRAWN - A. HOUSEH 11-07-95	REVISED - A. SCHUETZE 07-01-13	
PLOT SCALE = 50.0000 ' / in.	CHECKED - A. HOUSEH 10-12-96	REVISED - A. SCHUETZE 09-15-16	
PLOT DATE = 3/4/2019	DATE - T. RAMMACHER 01-06-00	REVISED -	

TRAFFIC CONTROL AND PROTECTION AT TURN BAYS (TO REMAIN OPEN TO TRAFFIC)

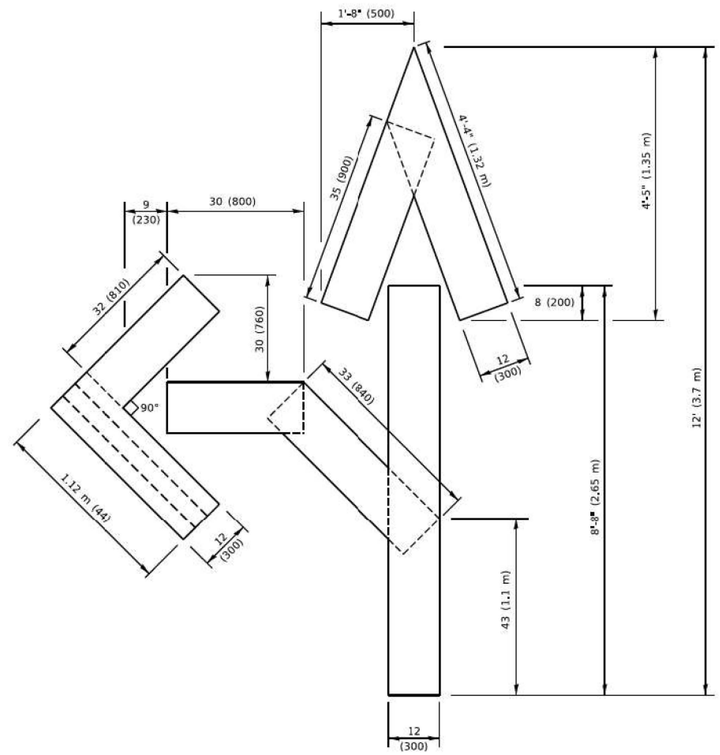
SCALE: NONE | SHEET 1 OF 1 SHEETS | STA. | TO STA.

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
326	(104 & 105)WRS-9(13)	MCHENRY	941	863
	TC-14	CONTRACT NO. 60X17		
		ILLINOIS FED. AID PROJECT		



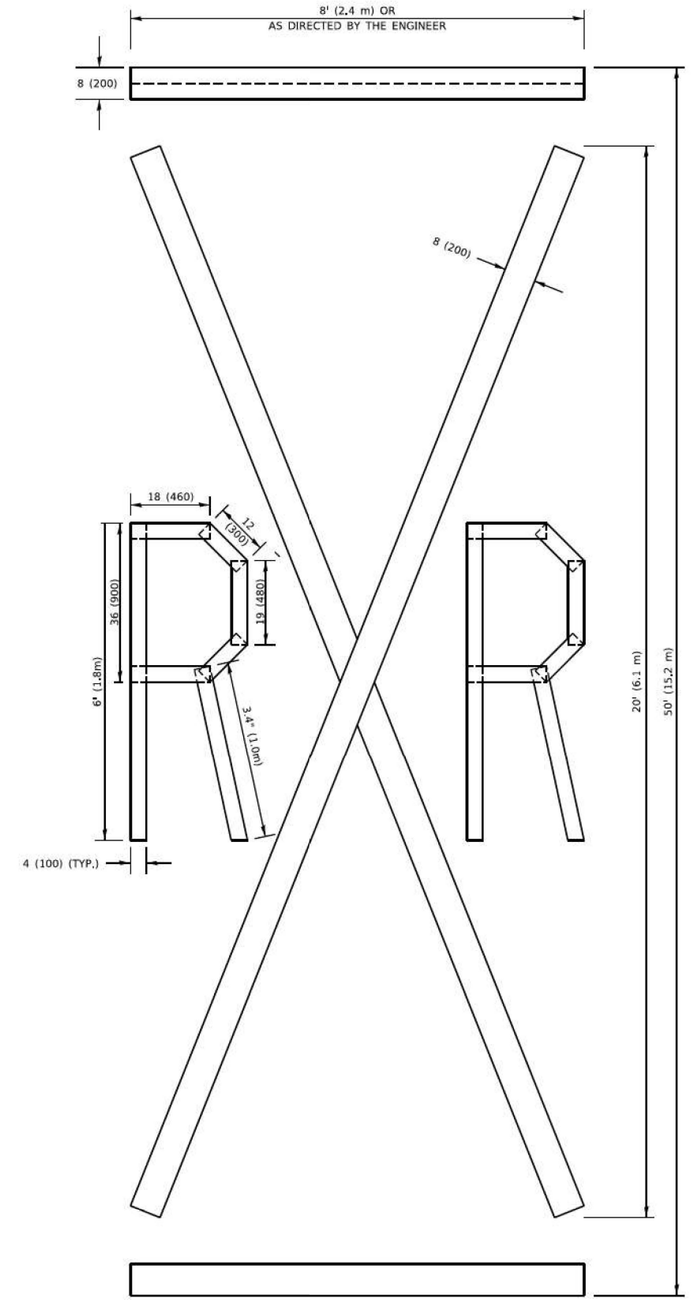
QUANTITY

4 (100) LINE = 45.5 ft. (13.9 m)
15.2 sq. ft. (1.41 sq. m)



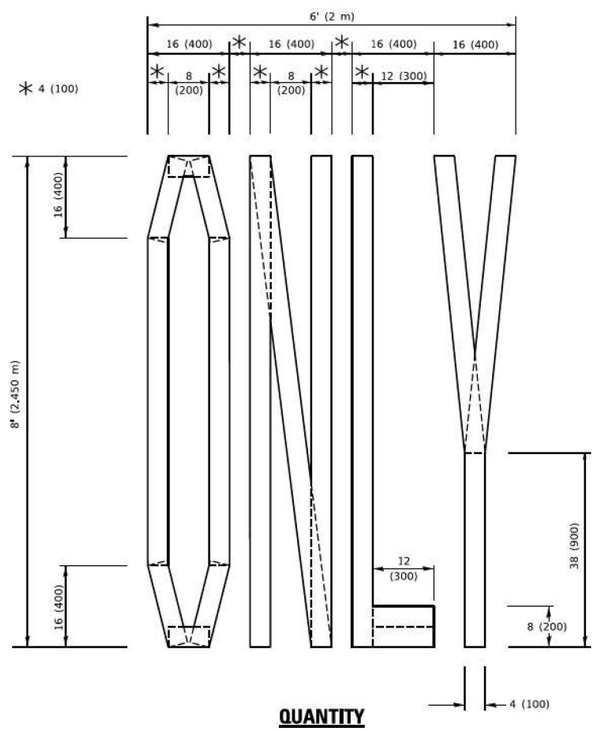
QUANTITY

4 (100) LINE = 82.5 ft. (25.1 m)
27.5 sq. ft. (2.53 sq. m)



QUANTITY

4 (100) LINE = 225.9 ft. (68.9 m)
75.3 sq. ft. (6.99 sq. m)



QUANTITY

4 (100) LINE = 64.1 ft. (19.5 m)
21.4 sq. ft. (1.99 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.

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

MODEL: Default
FILE NAME: pw:\\IL084EBIDNTEC.illinois.gov:PWIDOT\Documents\IDOT Office\Bureau 11\projects\Dist\tc22x34\CADData\CADsheets\tc16.dgn

USER NAME = footemj	DESIGNED -	REVISED - T. RAMMACHER 03-02-98	
	DRAWN -	REVISED - E. GOMEZ 08-28-00	
PLOT SCALE = 50.0068 ' / in.	CHECKED -	REVISED - E. GOMEZ 08-28-00	
PLOT DATE = 3/4/2019	DATE - 09-18-94	REVISED - A. SCHUETZE 09-15-16	

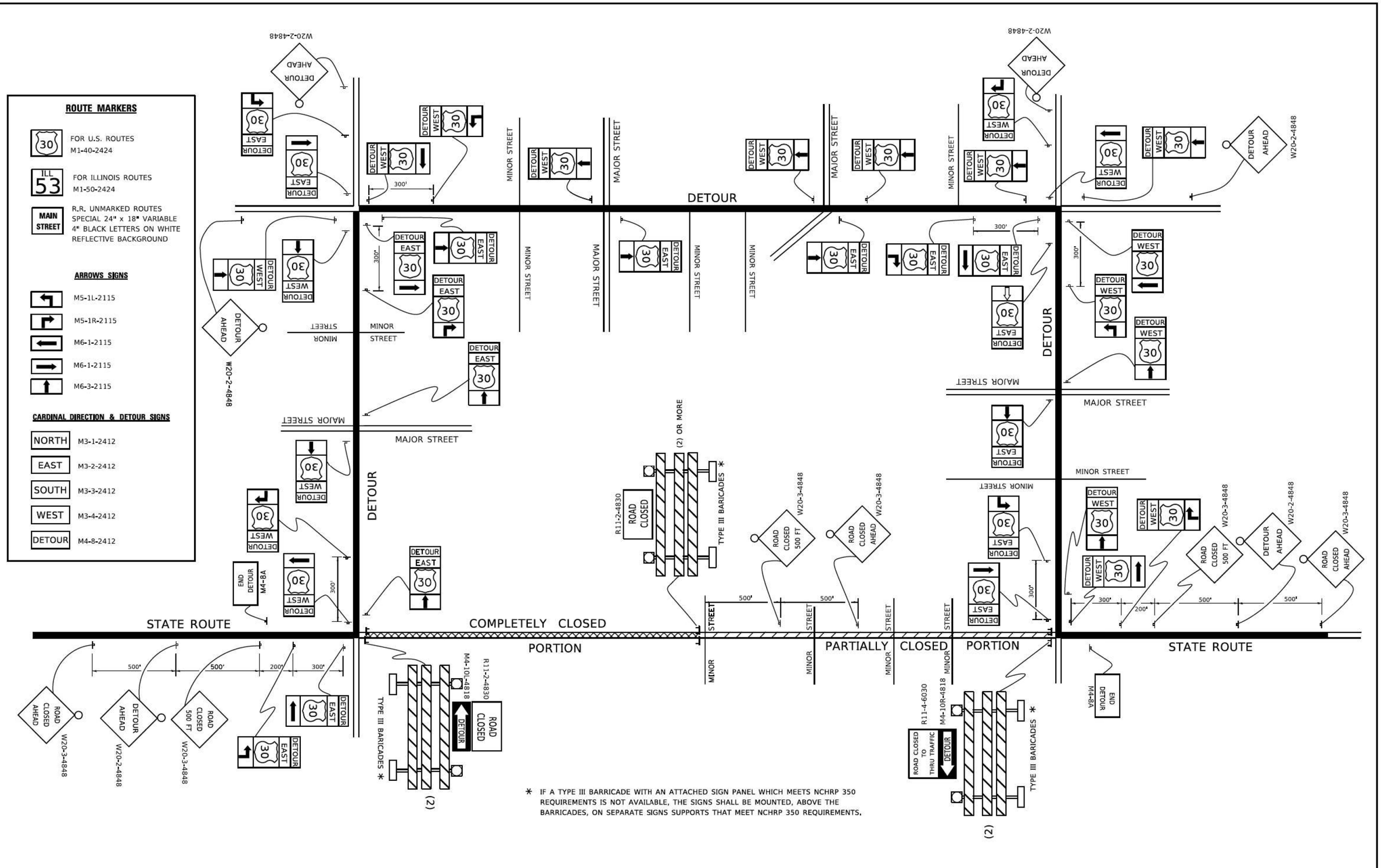
STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

SHORT TERM PAVEMENT MARKING LETTERS AND SYMBOLS

SCALE: NONE | SHEET 1 OF 1 SHEETS | STA. TO STA.

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
326	(104 & 105)WRS-9(13)	MCHENRY	941	864
	TC-16	CONTRACT NO. 60X17		
	ILLINOIS FED. AID PROJECT			

tc16.dgn 3/4/2019 10:37:35 AM User=footemj

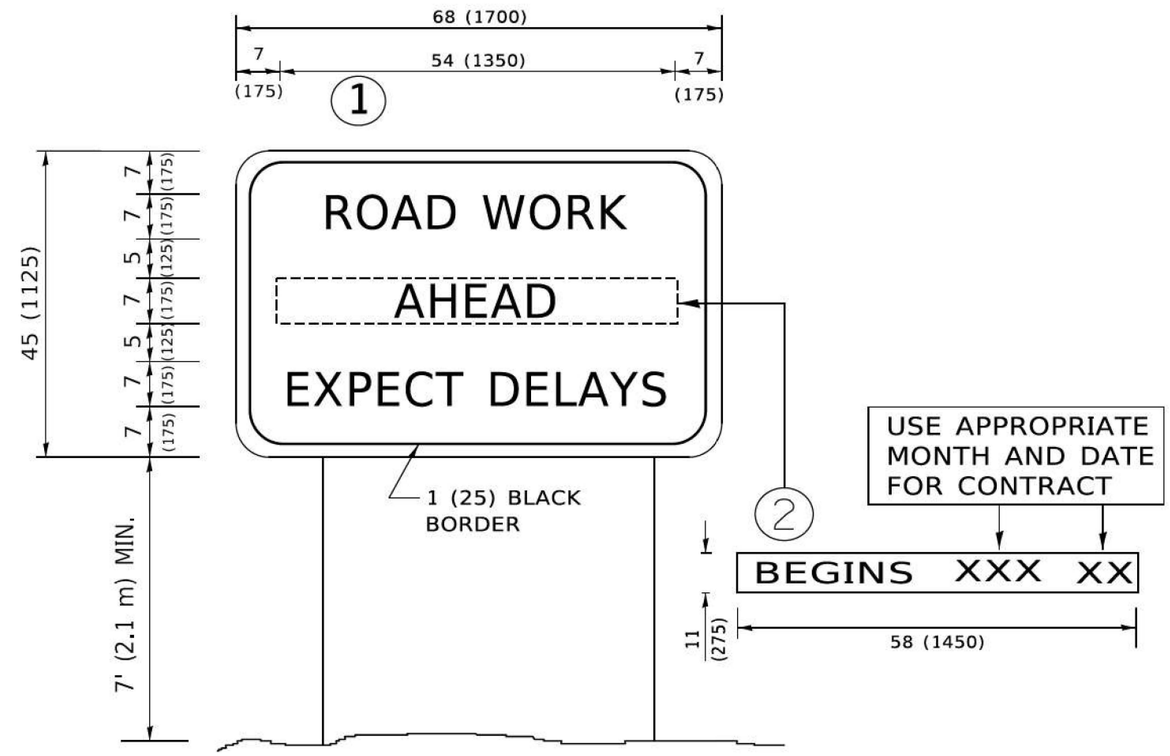


* IF A TYPE III BARRICADE WITH AN ATTACHED SIGN PANEL WHICH MEETS NCHRP 350 REQUIREMENTS IS NOT AVAILABLE, THE SIGNS SHALL BE MOUNTED, ABOVE THE BARRICADES, ON SEPARATE SIGNS SUPPORTS THAT MEET NCHRP 350 REQUIREMENTS.

MODEL: Default
FILE NAME: pw:\\IL084EBIDINTEG.illinois.gov:PWIDOT\Documents\IDOT Offices\District 1\Projects\DistStd22x34\CADData\CADsheets\tc21.dgn

USER NAME = footern]	DESIGNED -	REVISED - 10-18-02	STATE OF ILLINOIS DEPARTMENT OF TRANSPORTATION	DETOUR SIGNING FOR CLOSING STATE HIGHWAYS
	DRAWN -	REVISED - R. BORO 09-14-09		
PLOT SCALE = 50.0000 ' / in.	CHECKED -	REVISED -		
PLOT DATE = 3/4/2019	DATE -	REVISED -		SCALE: NONE SHEET 1 OF 1 SHEETS STA. TO STA.

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
326	(104 & 105)WRS-9(13)	MCHENRY	941	864A
TC-21		CONTRACT NO. 60X17		
		ILLINOIS FED. AID PROJECT		



NOTES:

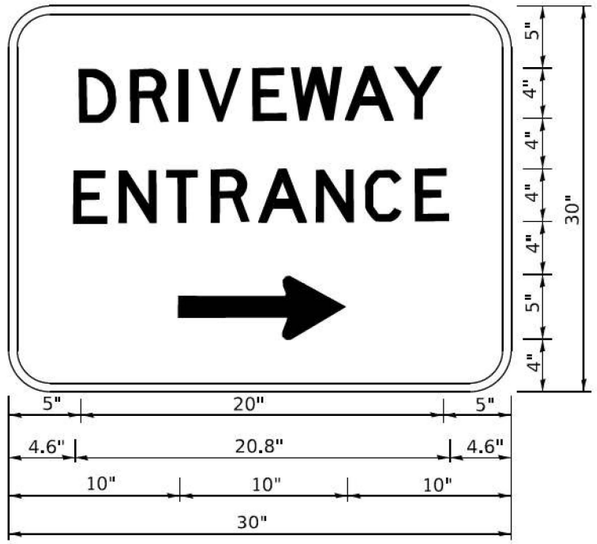
1. USE BLACK LETTERING ON ORANGE BACKGROUND.
2. ERECT SIGNS IN ADVANCE OF THE LOCATION FOR THE "ROAD CONSTRUCTION AHEAD" SIGN AT LOCATIONS AS DIRECTED BY THE ENGINEER.
3. ERECT SIGN (1) WITH INSTALLED PANEL (2) ONE WEEK PRIOR TO THE START OF CONSTRUCTION.
4. REMOVE PANEL (2) SOON AFTER THE START OF CONSTRUCTION.
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.

MODEL: Default
FILE NAME: pw:\\IL084EBIDINTEG.illinois.gov:PWIDOT\Documents\IDOT Offices\District 1\Projects\Dists\d22x34\CADData\CADsheets\tc22.dgn

USER NAME = footemj	DESIGNED -	REVISED -	R. MIRS 09-15-97	STATE OF ILLINOIS DEPARTMENT OF TRANSPORTATION	ARTERIAL ROAD INFORMATION SIGN
	DRAWN -	REVISED -	R. MIRS 12-11-97		
PLOT SCALE = 50.0000 ' / in.	CHECKED -	REVISED -	T. RAMMACHER 02-02-99		
PLOT DATE = 3/4/2019	DATE -	REVISED -	C. JUCIUS 01-31-07		SCALE: NONE SHEET 1 OF 1 SHEETS STA. TO STA.

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
326	(104 & 105)WRS-9(13)	MCHENRY	941	865
TC-22		CONTRACT NO. 60X17		
		ILLINOIS FED. AID PROJECT		



3.0" RADIUS, 0.5" BORDER, WHITE ON GREEN; REFLECTORIZED
"DRIVEWAY" D; "ENTRANCE" D; STANDARD ARROW CUSTOM 12.0" x 5.0"

NOTES:

1. HALF OF THE SIGNS WILL REQUIRE A LEFT HAND FACING ARROW.
2. TWO SIGNS SHALL BE USED AT EACH COMMERCIAL ENTRANCE PLACED BACK-TO-BACK: ONE WITH A RIGHT HAND ARROW (SHOWN) SHALL BE PLACED ON THE NEAR RIGHT SIDE THE DRIVEWAY AND ONE WITH A LEFT HAND ARROW SHALL BE PLACED ON THE FAR LEFT SIDE OF THE DRIVEWAY.
3. SIGNS TO BE PAID FOR AS ITEM "TEMPORARY INFORMATION SIGNING".

MODEL: Default
FILE NAME: pw:\\planroom.dot.illinois.gov:PWIDOT\Documents\IDOT Offices\District 1\Projects\DesignSet22x34\CADData\CADsheets\tc26.dgn

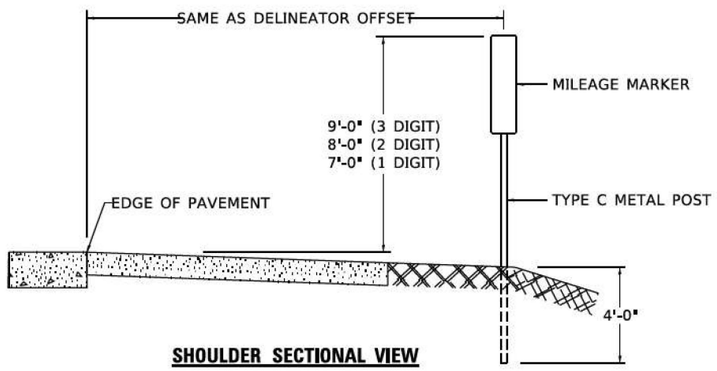
USER NAME = leysa	DESIGNED -	REVISED - C. JUCIUS 02-15-07	STATE OF ILLINOIS DEPARTMENT OF TRANSPORTATION
	DRAWN -	REVISED -	
PLOT SCALE = 50.0000 ' / in.	CHECKED -	REVISED -	
PLOT DATE = 8/6/2021	DATE -	REVISED -	

DRIVEWAY ENTRANCE SIGNING

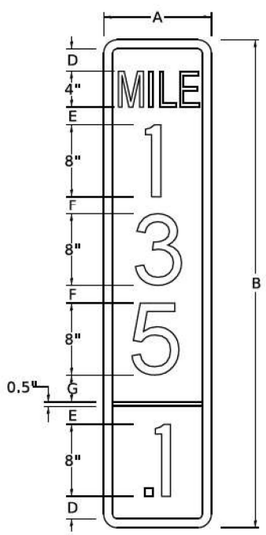
SCALE: NONE | SHEET 1 OF 1 SHEETS | STA. TO STA.

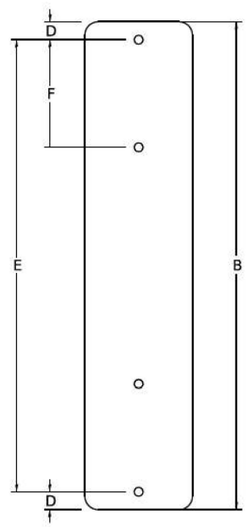
F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
326	(104 & 105)WRS-9(13)	MCHENRY	941	866
	TC-26	CONTRACT NO. 60X17		
		ILLINOIS FED. AID PROJECT		

STANDARD DESIGN FOR MILE POST



SHOULDER SECTIONAL VIEW



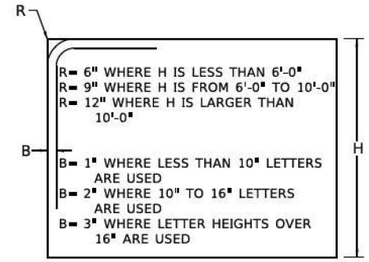


SIGN SIZE	DIMENSIONS							
	A	B	C	D	E	F	G	DIGIT
12 x 24	12.0	24.0	1.5	1.5	1.5	N/A	1.5	1
12 x 36	12.0	36.0	1.5	2.0	2.0	2.0	1.5	2
12 x 48	12.0	48.0	1.5	2.5	2.0	2.0	2.5	3

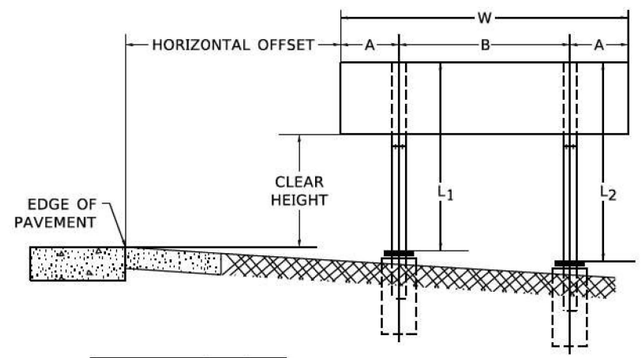
SIGN SIZE	SERIES					BORDER	BLANK STD.
	LINES						
	1	2	3	4	5		
12 x 24	4C	8D	4C	N/A	N/A	0.5	B9-1224
12 x 36	4C	8D	8D	4C	N/A	0.5	B9-1236
12 x 48	4C	8D	8D	8D	4C	0.5	B9-1248

BLANK	A	B	C	D	E	F
B9-1224	12.0	24.0	1.5	2.0	20.0	N/A
B9-1236	12.0	36.0	1.5	2.0	32.0	12.0
B9-1248	12.0	48.0	1.5	2.0	44.0	12.0

BORDER AND RADIUS LAYOUT



MAJOR GUIDE SIGN LAYOUT

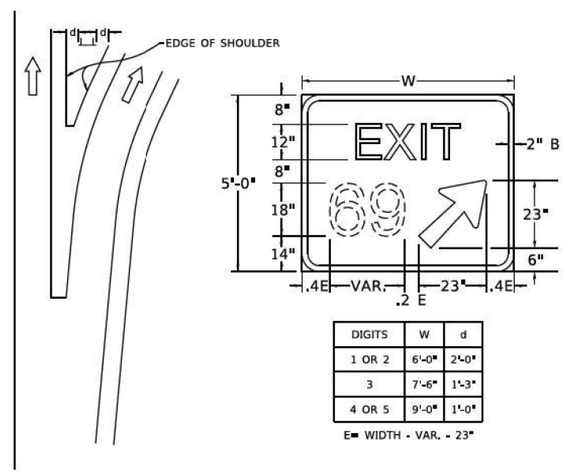


NUMBER OF STEEL SUPPORTS	A	B
2	.2 W	.6 W
3	.15 W	.35 W
4	.125 W	.25 W
5	.1 W	.2 W

"L_1 IS THE LENGTH OF SUPPORT, NOT INCLUDING THE STUB PROJECTION, CLOSEST TO THE EDGE OF THE PAVEMENT.

"A" IS THE DISTANCE FROM THE SIGN EDGE TO THE CENTERLINE OF THE NEAREST SUPPORT. "B" IS THE DISTANCE BETWEEN CENTERLINES OF SUPPORTS.

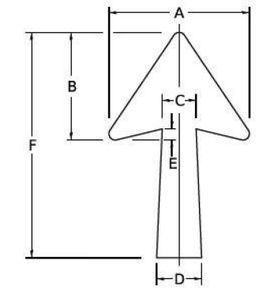
GORE SIGNS



DIGITS	W	d
1 OR 2	6'-0"	2'-0"
3	7'-6"	1'-3"
4 OR 5	9'-0"	1'-0"

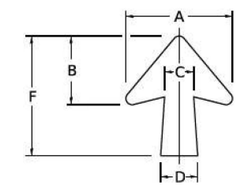
E= WIDTH - VAR. - 23"

STANDARD ARROWS FOR INTERSTATE GUIDE SIGNS



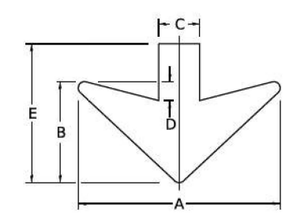
ARROW SYMBOL	A	B	C	D	E	F	R
24¼ x 15⅛	15⅛	11 9/16	3¾	5	1 5/16	24¼	13/16
29¼ x 18⅛	18⅛	14	4½	6	1½	29¼	¾
35⅝ x 22¼	22¼	17	5⅜	7⅛	1⅜	35⅝	1
18¼ x 11¼	11¼	8¾	3⅛	3⅞		18¼	

NOTE: D & F ARE RECOMMENDED DIMENSIONS. TAPER SHOULD BE HELD CONSTANT FOR LONGER OR SHORTER SHAFT LENGTHS



ARROW SYMBOL	A	B	C	D	E	F	R
17¼ x 14¼	14¼	9 13/16	3⅜	4½	13/16	17¼	¾
20¼ x 17¼	17¼	11¾	4⅜	5⅝	1½	20¼	
25 x 21⅞	21⅞	14¼	5	6¾	1¾	25	1
9 9/16 x 8 7/16	8 7/16	5 7/16	2 5/16	2 15/16		9 9/16	½

DOWN ARROWS



ARROW SYMBOL	A	B	C	D	E	R
16½ x 24	24	12	5	1½	16½	¾
22 x 32	32	16	6½	3	22	1

MODEL: Default
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	DRAWN -	REVISED -	
PLOT SCALE = 50.0000 ' / in.	CHECKED -	REVISED -	
PLOT DATE = 3/4/2019	DATE - 03-08-1984	REVISED -	

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

MILE POST MARKERS – GORE SIGNS
MAJOR GUIDE SIGN LAYOUT – ARROWS

SCALE: NONE | SHEET 1 OF 2 SHEETS | STA. TO STA.

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
326	(104 & 105)WRS-9(13)	MCHENRY	941	867
	TC-27 (TS-2341-1)	CONTRACT NO. 60X17		
		ILLINOIS FED. AID PROJECT		

APPROXIMATE MEASURED END AREAS BY STAGE – IL ROUTE 47

STATION	PRESTAGE A			PRESTAGE B			STAGE 1A			STAGE 1B			STAGE 1C			STAGE 2A			STAGE 2B			STAGE 3		
	CUT (SQ FT)	FILL (SQ FT)	REMOVAL AND DISPOSAL OF UNSUITABLE MATERIAL (SQ FT)	CUT (SQ FT)	FILL (SQ FT)	REMOVAL AND DISPOSAL OF UNSUITABLE MATERIAL (SQ FT)	CUT (SQ FT)	FILL (SQ FT)	REMOVAL AND DISPOSAL OF UNSUITABLE MATERIAL (SQ FT)	CUT (SQ FT)	FILL (SQ FT)	REMOVAL AND DISPOSAL OF UNSUITABLE MATERIAL (SQ FT)	CUT (SQ FT)	FILL (SQ FT)	REMOVAL AND DISPOSAL OF UNSUITABLE MATERIAL (SQ FT)	CUT (SQ FT)	FILL (SQ FT)	REMOVAL AND DISPOSAL OF UNSUITABLE MATERIAL (SQ FT)	CUT (SQ FT)	FILL (SQ FT)	REMOVAL AND DISPOSAL OF UNSUITABLE MATERIAL (SQ FT)	CUT (SQ FT)	FILL (SQ FT)	REMOVAL AND DISPOSAL OF UNSUITABLE MATERIAL (SQ FT)
IL-47																								
93+61.81	0.00	0.00	0.00	0.00	0.00	0.00	11.42	2.95	3.47	0.00	0.00	0.00	4.67	0.00	0.00	11.33	39.20	22.71	0.00	0.00	0.00	0.00	0.00	0.00
94+00.00	0.00	0.00	0.00	0.00	0.00	0.00	22.92	19.76	16.32	0.00	0.00	0.00	5.36	0.00	0.00	13.56	10.76	14.16	0.00	0.00	0.00	0.00	0.00	0.00
95+00.00	0.00	0.00	0.00	0.00	0.00	0.00	12.63	90.55	36.57	0.00	0.00	0.00	5.96	0.00	0.00	15.70	36.64	11.44	0.00	0.00	0.00	0.00	0.00	0.00
96+00.00	0.00	0.00	0.00	0.00	0.00	0.00	17.06	91.40	37.50	0.00	0.00	0.00	6.72	0.00	0.00	17.90	25.09	10.98	0.00	0.00	0.00	0.00	0.00	0.00
97+00.00	0.00	0.00	0.00	0.00	25.17	11.87	12.81	105.93	45.88	0.00	0.00	0.00	5.74	0.00	0.00	20.96	5.92	1.94	0.00	0.00	0.00	0.00	0.00	0.00
98+00.00	0.00	0.00	0.00	0.00	30.27	14.69	44.49	86.08	53.18	0.00	0.00	0.00	1.80	3.39	0.00	19.00	7.58	1.66	0.00	0.00	0.00	0.00	0.00	0.00
99+00.00	0.00	0.00	0.00	0.00	28.75	23.36	62.66	4.97	36.10	0.00	0.00	0.00	17.13	3.39	0.00	18.59	15.39	0.39	0.00	0.00	0.00	0.00	0.00	0.00
100+00.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
101+00.00	0.00	0.00	0.00	11.68	0.00	13.21	17.24	52.28	37.02	0.00	0.00	0.00	10.00	3.39	0.00	25.28	28.77	18.65	0.00	0.00	0.00	1.85	3.39	0.00
102+00.00	0.00	0.00	0.00	4.85	22.60	18.93	15.42	42.08	22.88	0.00	0.00	0.00	11.16	3.39	0.00	29.12	23.60	16.51	0.00	0.00	0.00	2.11	3.39	0.00
103+00.00	0.00	0.00	0.00	2.94	0.00	3.39	33.02	38.99	24.05	0.00	0.00	0.00	20.30	3.42	0.00	42.65	6.53	26.37	0.00	0.00	0.00	6.61	3.42	0.00
104+00.00	0.00	0.00	0.00	0.00	0.00	0.00	41.74	57.56	31.52	0.00	0.00	0.00	0.00	0.00	0.00	44.61	9.12	25.37	0.00	0.00	0.00	7.10	3.00	0.00
105+00.00	0.00	0.00	0.00	1.75	6.47	8.14	34.57	88.95	32.54	0.00	0.00	0.00	0.00	0.00	0.00	40.70	5.67	18.02	0.00	0.00	0.00	6.31	5.37	0.00
106+00.00	0.00	0.00	0.00	3.07	10.74	11.77	36.89	37.44	39.99	0.00	0.00	0.00	0.00	0.00	0.00	33.55	12.68	13.27	0.00	0.00	0.00	13.37	0.00	0.00
107+00.00	0.00	0.00	0.00	0.65	35.34	13.39	70.72	27.37	38.31	0.00	0.00	0.00	9.84	3.26	0.00	36.52	7.91	9.60	0.00	0.00	0.00	18.23	3.26	0.00
108+00.00	0.00	0.00	0.00	1.31	31.57	14.07	23.89	79.96	34.19	0.00	0.00	0.00	10.62	1.85	0.00	30.41	10.60	12.75	0.00	0.00	0.00	0.00	0.00	0.00
109+00.00	0.00	0.00	0.00	6.90	4.69	14.39	46.16	31.33	35.41	0.00	0.00	0.00	13.84	0.00	0.00	69.97	0.81	0.00	0.00	0.00	0.00	0.00	0.00	0.00
110+00.00	0.00	0.00	0.00	8.26	4.44	14.39	55.13	42.11	40.51	0.00	0.00	0.00	19.72	3.39	0.00	56.83	17.50	0.00	0.00	0.00	0.00	29.62	3.39	0.00
111+00.00	0.00	0.00	0.00	11.89	5.65	14.06	59.18	21.66	34.69	0.00	0.00	0.00	19.98	0.00	0.00	51.84	1.30	4.27	0.00	0.00	0.00	10.89	2.91	0.00
112+00.00	0.00	0.00	0.00	10.46	5.20	14.10	57.58	48.65	47.07	0.00	0.00	0.00	19.52	0.00	0.00	81.78	3.57	3.93	0.00	0.00	0.00	0.00	0.00	0.00
113+00.00	0.00	0.00	0.00	4.98	7.98	18.79	61.79	2.13	33.45	0.00	0.00	0.00	20.43	3.39	0.00	52.25	20.85	0.00	0.00	0.00	0.00	30.12	3.39	0.00
114+00.00	0.00	0.00	0.00	3.56	15.85	17.58	58.04	2.19	26.99	0.00	0.00	0.00	19.73	1.27	0.00	59.62	1.41	6.39	0.00	0.00	0.00	25.03	1.27	0.00
115+00.00	0.00	0.00	0.00	2.98	13.69	18.40	62.98	1.19	27.62	0.00	0.00	0.00	21.12	1.85	0.00	55.34	3.73	4.42	0.00	0.00	0.00	0.00	0.00	0.00
116+00.00	0.00	0.00	0.00	2.14	11.16	20.21	59.14	3.89	32.38	0.00	0.00	0.00	13.21	0.00	0.00	49.86	3.83	0.00	0.00	0.00	0.00	0.00	0.00	0.00
117+00.00	0.00	0.00	0.00	1.82	39.57	16.93	23.63	42.44	28.54	0.00	0.00	0.00	10.26	3.39	0.00	34.58	15.72	0.00	0.00	0.00	0.00	14.83	3.39	0.00
117+50.00	0.00	0.00	0.00	2.52	35.78	16.70	51.47	31.97	32.87	0.00	0.00	0.00	10.69	3.39	0.00	36.11	13.62	0.00	0.00	0.00	0.00	15.48	3.39	0.00
118+00.00	0.00	0.00	0.00	2.76	44.39	16.41	25.62	61.81	30.12	0.00	0.00	0.00	13.77	0.00	0.00	46.63	17.53	0.00	0.00	0.00	0.00	7.63	1.27	0.00
118+50.00	0.00	0.00	0.00	2.82	43.32	16.54	25.04	56.48	29.12	0.00	0.00	0.00	17.69	1.85	0.00	51.11	14.75	0.00	0.00	0.00	0.00	0.00	0.00	0.00
118+85.00	0.00	0.00	0.00	3.38	33.44	16.12	52.24	3.74	28.74	0.00	0.00	0.00	17.04	1.85	0.00	55.13	11.88	0.00	0.00	0.00	0.00	0.00	0.00	0.00
119+00.00	0.00	0.00	0.00	4.59	21.62	15.11	34.02	11.66	29.69	0.00	0.00	0.00	16.00	1.85	0.00	55.54	7.56	0.00	0.00	0.00	0.00	0.00	0.00	0.00
120+00.00	0.00	0.00	0.00	0.00	0.00	0.00	40.80	2.01	36.28	0.00	0.00	0.00	0.00	1.68	0.00	30.48	0.37	0.00	0.00	0.00	0.00	0.00	0.00	0.00
121+00.00	0.00	0.00	0.00	2.83	0.00	2.73	11.79	15.11	29.74	0.00	0.00	0.00	0.00	5.33	0.00	5.51	4.35	9.81	0.00	0.00	0.00	0.00	6.74	0.00
122+00.00	0.00	0.00	0.00	11.81	0.00	8.62	24.55	10.75	23.64	0.00	0.00	0.00	0.77	8.09	0.00	29.63	0.59	9.50	0.00	0.00	0.00	2.12	8.09	0.00
123+00.00	0.00	0.00	0.00	12.87	0.00	11.77	14.71	12.30	24.88	0.00	0.00	0.00	1.08	8.92	0.00	23.69	2.65	7.62	0.00	0.00	0.00	3.01	17.32	0.00
124+00.00	0.00	0.00	0.00	9.53	0.11	9.86	30.62	6.52	25.01	0.00	0.00	0.00	5.74	2.37	0.00	33.50	2.39	9.99	0.00	0.00	0.00	5.24	5.76	0.00
125+00.00	0.00	0.00	0.00	12.93	0.00	9.78	33.03	1.89	31.28	0.00	0.00	0.00	11.57	1.85	0.00	47.49	8.09	17.34	0.00	0.00	0.00	0.00	0.00	0.00
125+51.29	0.00	0.00	0.00	8.83	0.19	9.23	37.83	2.51	25.13	0.00	0.00	0.00	12.88	1.85	0.00	51.00	2.12	10.96	0.00	0.00	0.00	0.00	0.00	0.00
126+00.00	0.00	0.00	0.00	8.64	0.89	9.91	35.78	1.86	24.13	0.00	0.00	0.00	9.09	0.00	0.00	41.80	2.74	16.93	0.00	0.00	0.00	0.00	0.00	0.00
127+00.00	0.00	0.00	0.00	4.74	0.66	12.77	50.46	0.61	34.71	0.00	0.00	0.00	11.55	3.39	0.00	42.60	3.25	0.00	0.00	0.00	0.00	17.55	3.39	0.00
128+00.00	0.00	0.00	0.00	13.96	0.50	17.67	73.86	1.58	22.02	0.00	0.00	0.00	0.00	0.00	0.00	49.47	1.70	0.00	0.00	0.00	0.00	22.48	2.86	0.00
129+00.00	0.00	0.00	0.00	42.09	0.00	33.52	107.89	1.08	14.98	0.00	0.00	0.00	8.36	0.00	3.32	60.39	0.70	4.55	0.00	0.00	0.00	15.38	1.48	2.08
130+00.00	0.00	0.00	0.00	25.24	0.06	31.31	49.15	15.91	34.50	0.00	0.00	0.00	61.35	29.57	0.00	114.13	0.00	0.00	0.00	0.00	0.00	20.29	29.57	0.00
131+00.00	0.00	0.00	0.00	0.00	0.00	0.00	43.09	7.16	64.58	0.00	0.00	0.00	0.00	0.00	0.00	14.37	3.42	0.00	17.01	4.68	0.00	0.00	0.00	0.00
132+00.00	0.00	0.00	0.00	30.06	0.00	22.04	40.98	1.55	24.05	0.00	0.00	0.00	41.06	3.12	24.05	70.17	15.95	15.33	0.00	0.00	0.00	2.43	2.23	0.00
133+00.00	0.00	0.00	0.00	8.85	0.00	14.84	44.47	2.69	28.91	0.00	0.00	0.00	48.06	0.33	28.91	40.66	1.52	4.58	0.00	0.00	0.00	3.83	1.54	0.00
134+00.00	0.00	0.00	0.00	1.52	0.00	14.92	30.30	3.12	21.60	0.00	0.00	0.00	26.17	3.11	21.60	31.04	6.74	0.00	0.00	0.00	0.00	4.15	1.54	0.00
135+00.00	0.00	0.00	0.00	8.91	0.00	12.50	24.80	6.96	20.72	0.00	0.00	0.00	24.80	6.96	20.71	24.88	12.79	1.38	0.00	0.00	0.00	3.74	0.00	0.00
136+00.00	0.00	0.00	0.00	8.50	0.00	9.66	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	10.69	15.61	1.20	0.00	0.00	0.00	0.00	0.00	0.00
137+17.67	0.00	0.00	0.00	0.00	0.00	0.00	90.35	1.06	74.10	0.00	0.00	0.00	0.00	0.00	0.00	18.85	1.55	7.46	0.00	0.00	0.00	0.00	0.00	0.00
138+00.00	0.00	0.00	0.00	10.31	0.00	14.38	9.73	174.23	46.92	0.00	0.00	0.00	0.00	0.00	0.00	7.81	17.86	3.42	0.00	41.71	0.00	0.00	0.00	0.00
139+00.00	0.00	0.00	0.00	0.00	0.00	0.00	5.67	55.55	5.90	0.00	0.00	0.00	0.00	0.00	0.00	3.05	20.06	0.00	70.05	0.00	0.00	0.00	0.00	0.00
140+00.00	0.00	0.00	0.00	10.67	0.02	12.85	4.94	6.63	34.38	0.00	0.00	0.00	0.00	0.00	0.00	7.51	42.21	0.00	0.00	0.00	0.00	0.00	0.00	0.00
141+00.00	0.00	0.00	0.00	9.64	0.89	11.00	41.76	8.90	38.43	0.00	0.00	0.00	0.00	0.00	0.00	18.64	21.63	1.10	0.00	0.00	0.00	0.31	5.02	0.00
142+00.00	0.00	0.00	0.00	11.06	0.00	7.91	69.86	1.59	32.47	0.00	0.00	0.00	0.00	0.00	0.00	17.12	2.73	6.23	0.00	0.00	0.00	13.19	2.47	0.00
143+00.00	0.00	0.00	0.00	6.04	0.00	5.59	56.68	2.73	28.41	0.00	0.00	0.00	0.00	0.00	0.00	22.69	7.30	1.95	0.00	0.00	0.00	17.52	2.25	0.00
144+00.00	0.00	0.00	0.00	7.65	0.00	6.09	0.00	0.00	0.00	0.00	0.00	0.00	49.26	3.21	16.94	35.51	4.62	11.83	49.93	12.51	30.19	0.00	0.00	0.00
145+00.00	0.00	0.00	0.00	5.46	0.00	7.17	0.00	0.00	0.00	0.00	0.00	0.00	49.03	0.00	12.79	29.05	1.04	12.50	56.60	5.33	39.11	0.00	0.00	0.00
146+00.00	0.00	0.00	0.00	9.16	0.00	6.39	0.00	0.00	0.00	0.00	0.00	0.00	42.07	3.30	9.78	26.91	1.76	3.10	49.99	6.80	28.78	0.00	0.00	0.00
147+00.00	0.00	0.00	0.00	4.06	0.01	6.65	0.00	0.00	0.00	0.00	0.00	0.00	28.21	0.00	3.46	19.70	1.21	0.00	44.03	4.08	25.72	2.88	6.61	0.00
148+00.00	0.00	0.00	0.00	3.50	0.10	5.99	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	16.24	2.33	0.00	52.00	9.80	26.44	0.00	0.00	0.00

MODEL: Default
FILE NAME: pw:\\aecom-na-pw.bentley.com:AECOM_DS21_NA_2020\Documents\60632011-IL-47\900-CAD\910_CAD\03_SHEETS\Civil\D160X17-sht-xssht-EW-IL47.dgn

AECOM
303 EAST WACKER DRIVE, SUITE 1400
CHICAGO, IL 60601-5276
PHONE: (312) 373-7700 FAX: (312) 373-6800

USER NAME = muniza	DESIGNED - APA	REVISED -	STATE OF ILLINOIS DEPARTMENT OF TRANSPORTATION
	DRAWN - APA	REVISED -	
PLOT SCALE = 100.0000 ' / in.	CHECKED - TJW	REVISED -	
PLOT DATE = 2/10/2025	DATE - 02/06/2025	REVISED -	

APPROXIMATE MEASURED END AREAS BY STAGE
IL–47

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

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
326	2024-1052-N,C,SW,FL	MCHENRY	941	867A
		CONTRACT NO. 62X94		
	ILLINOIS	FED. AID PROJECT		

APPROXIMATE MEASURED END AREAS BY STAGE – IL ROUTE 47 (CONTINUED)

	PRESTAGE A			PRESTAGE B			STAGE 1A			STAGE 1B			STAGE 1C			STAGE 2A			STAGE 2B			STAGE 3		
STATION	CUT (SQ FT)	FILL (SQ FT)	REMOVAL AND DISPOSAL OF UNSUITABLE MATERIAL (SQ FT)	CUT (SQ FT)	FILL (SQ FT)	REMOVAL AND DISPOSAL OF UNSUITABLE MATERIAL (SQ FT)	CUT (SQ FT)	FILL (SQ FT)	REMOVAL AND DISPOSAL OF UNSUITABLE MATERIAL (SQ FT)	CUT (SQ FT)	FILL (SQ FT)	REMOVAL AND DISPOSAL OF UNSUITABLE MATERIAL (SQ FT)	CUT (SQ FT)	FILL (SQ FT)	REMOVAL AND DISPOSAL OF UNSUITABLE MATERIAL (SQ FT)	CUT (SQ FT)	FILL (SQ FT)	REMOVAL AND DISPOSAL OF UNSUITABLE MATERIAL (SQ FT)	CUT (SQ FT)	FILL (SQ FT)	REMOVAL AND DISPOSAL OF UNSUITABLE MATERIAL (SQ FT)	CUT (SQ FT)	FILL (SQ FT)	REMOVAL AND DISPOSAL OF UNSUITABLE MATERIAL (SQ FT)
149+00.00	0.00	0.00	0.00	8.96	0.00	5.81	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	24.12	3.30	13.16	49.24	6.80	15.38	0.00	0.00	0.00
150+00.00	0.00	0.00	0.00	7.39	0.00	6.12	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	27.26	1.88	15.19	50.05	9.05	26.49	1.82	2.77	0.00
151+00.00	0.00	0.00	0.00	7.60	0.00	10.72	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	19.87	2.30	0.00	81.32	7.62	42.23	2.31	2.85	0.00
152+00.00	0.00	0.00	0.00	7.20	0.08	11.18	40.32	3.11	40.32	0.00	0.00	0.00	8.18	0.00	0.00	29.99	1.43	0.00	0.00	0.00	0.00	14.56	0.00	0.00
153+00.00	0.00	0.00	0.00	2.84	29.83	34.91	3.37	43.59	29.68	0.00	0.00	0.00	0.13	3.99	0.00	2.91	7.24	6.40	0.00	0.00	0.00	0.13	5.01	0.00
153+32.50	0.00	0.00	0.00	3.10	31.10	18.41	0.98	92.18	31.80	0.00	0.00	0.00	0.00	5.99	0.00	3.50	11.41	10.74	0.00	0.00	0.00	0.00	9.02	0.00
154+00.00	0.00	0.00	0.00	3.25	2.68	12.68	0.00	428.24	52.87	0.00	0.00	0.00	0.00	9.67	0.00	1.63	30.15	14.96	0.00	0.00	0.00	0.00	16.12	0.00
155+00.00	0.00	0.00	0.00	1.46	7.02	10.71	0.00	219.75	35.93	0.00	0.00	0.00	0.00	17.24	0.00	1.25	38.67	8.77	0.00	0.00	0.00	0.00	29.76	0.00
156+00.00	0.00	0.00	0.00	3.57	1.12	5.52	0.19	150.32	27.63	0.00	0.00	0.00	0.00	12.99	0.00	1.72	19.25	9.56	0.00	0.00	0.00	0.00	24.35	0.00
157+00.00	0.00	0.00	0.00	3.03	0.00	5.31	6.55	35.79	12.96	0.00	0.00	0.00	1.92	7.73	0.00	12.39	18.95	0.00	0.00	0.00	0.00	1.92	14.67	0.00
158+00.00	0.00	0.00	0.00	0.00	0.00	0.00	50.34	2.41	21.74	0.00	0.00	0.00	11.04	1.23	0.00	61.66	2.20	15.53	0.00	0.00	0.00	11.04	3.27	0.00
159+00.00	0.00	0.00	0.00	1.08	0.00	0.60	38.21	3.74	32.82	0.00	0.00	0.00	15.09	0.00	0.00	44.70	2.29	12.81	0.00	0.00	0.00	18.22	1.54	0.00
160+00.00	0.00	0.00	0.00	7.43	0.00	6.78	28.90	8.34	21.48	0.00	0.00	0.00	12.00	0.00	0.00	41.75	0.81	13.11	0.00	0.00	0.00	0.00	0.00	0.00
161+00.00	0.00	0.00	0.00	9.12	0.00	5.44	21.72	10.90	23.06	0.00	0.00	0.00	10.38	0.00	0.00	32.31	1.38	12.36	0.00	0.00	0.00	12.87	0.00	0.00
162+00.00	0.00	0.00	0.00	9.30	0.00	5.57	55.55	0.88	22.13	0.00	0.00	0.00	7.76	3.38	0.00	27.70	2.27	12.01	0.00	0.00	0.00	19.92	3.38	0.00
163+00.00	0.00	0.00	0.00	4.21	0.17	7.99	23.78	0.72	10.15	0.00	0.00	0.00	3.14	6.07	0.00	17.47	2.01	0.00	0.00	0.00	0.00	8.84	7.49	0.00
164+00.00	0.00	0.00	0.00	7.63	0.00	6.55	36.16	0.37	37.00	0.00	0.00	0.00	3.42	0.00	0.00	9.38	17.33	14.53	0.00	0.00	0.00	5.15	7.61	0.00
165+00.00	0.00	0.00	0.00	7.88	0.00	6.27	43.17	1.61	20.75	0.00	0.00	0.00	3.40	0.00	0.00	6.66	11.41	13.27	0.00	0.00	0.00	1.38	2.46	0.00
166+00.00	0.00	0.00	0.00	8.00	0.00	10.43	0.00	0.00	0.00	49.54	1.08	21.79	5.24	0.00	0.00	7.65	5.58	0.00	0.00	0.00	0.00	6.74	2.46	0.00
167+00.00	0.00	0.00	0.00	11.28	0.00	11.60	0.00	0.00	0.00	159.47	5.80	18.97	0.00	0.00	0.00	41.37	1.17	19.78	0.00	0.00	0.00	0.00	0.00	0.00
168+00.00	0.00	0.00	0.00	11.81	0.00	9.18	53.52	32.66	25.41	0.00	0.00	0.00	4.04	2.46	0.00	80.46	0.11	28.80	0.00	0.00	0.00	6.39	2.46	0.00
169+00.00	0.00	0.00	0.00	6.78	0.00	6.84	53.20	5.97	13.40	0.00	0.00	0.00	9.79	2.46	0.00	28.66	1.58	9.52	0.00	0.00	0.00	17.93	2.46	0.00
170+00.00	0.00	0.00	0.00	5.25	0.00	13.94	49.45	5.04	14.88	0.00	0.00	0.00	8.96	2.46	0.00	30.79	0.82	0.00	0.00	0.00	0.00	17.14	2.46	0.00
171+00.00	0.00	0.00	0.00	3.81	6.54	12.62	49.74	0.79	13.86	0.00	0.00	0.00	8.65	0.14	0.00	25.74	9.29	7.09	0.00	0.00	0.00	16.57	4.13	0.00
171+47.00	0.00	0.00	0.00	3.09	4.66	11.64	46.22	8.05	13.75	0.00	0.00	0.00	9.94	0.00	0.00	7.09	9.78	3.66	0.00	0.00	0.00	15.19	2.44	0.00
172+00.00	0.00	0.00	0.00	7.35	0.00	8.88	44.13	7.17	13.57	0.00	0.00	0.00	9.64	0.00	0.00	18.17	4.95	9.71	0.00	0.00	0.00	14.14	3.39	0.00
173+00.00	0.00	0.00	0.00	0.00	0.00	0.00	44.80	5.57	15.36	0.00	0.00	0.00	12.82	0.00	0.00	0.00	0.00	0.00	112.52	2.25	62.27	12.82	0.00	0.00
174+00.00	0.00	0.00	0.00	5.84	1.84	8.38	73.81	3.94	16.34	0.00	0.00	0.00	5.95	2.24	0.00	49.99	3.07	3.68	0.00	0.00	0.00	11.43	4.77	0.00
175+00.00	0.00	0.00	0.00	6.59	2.09	11.04	79.23	0.77	16.42	0.00	0.00	0.00	13.65	1.83	0.00	58.08	2.36	4.90	0.00	0.00	0.00	27.71	1.83	0.00
176+00.00	0.00	0.00	0.00	3.64	3.15	14.59	62.17	1.76	20.33	0.00	0.00	0.00	12.48	1.95	0.00	47.26	2.12	0.00	0.00	0.00	0.00	18.44	1.95	0.00
177+00.00	0.00	0.00	0.00	1.36	25.10	16.37	47.18	22.05	24.95	0.00	0.00	0.00	18.83	0.00	0.00	53.82	2.30	4.71	0.00	0.00	0.00	27.33	1.91	0.00
178+00.00	0.00	0.00	0.00	1.50	21.32	16.75	56.84	7.57	25.90	0.00	0.00	0.00	22.88	0.00	0.00	63.34	1.58	6.51	0.00	0.00	0.00	34.30	0.00	0.00
179+00.00	0.00	0.00	0.00	5.96	2.81	15.97	64.33	3.79	27.67	0.00	0.00	0.00	18.67	3.39	0.00	69.42	1.45	0.00	0.00	0.00	0.00	36.65	3.39	0.00
180+00.00	0.00	0.00	0.00	2.86	19.04	16.00	50.75	4.85	28.07	0.00	0.00	0.00	12.32	3.39	0.00	45.30	0.00	6.54	0.00	0.00	0.00	23.97	3.39	0.00
181+00.00	0.00	0.00	0.00	14.32	0.00	18.96	48.54	0.60	37.69	0.00	0.00	0.00	3.37	6.26	0.00	31.04	1.84	5.04	0.00	0.00	0.00	6.66	9.68	0.00
182+00.00	0.00	0.00	0.00	20.75	0.00	26.85	0.00	0.00	0.00	4.19	37.96	11.87	0.00	0.00	0.00	0.00	31.94	3.14	0.00	0.00	0.00	0.15	19.03	0.00
183+00.00	0.00	0.00	0.00	6.64	0.00	20.19	0.00	0.00	0.00	0.00	134.00	19.30	0.00	0.00	0.00	0.04	111.19	0.00	0.00	0.00	0.00	0.00	64.93	0.00
184+00.00	0.00	0.00	0.00	8.30	0.00	24.85	178.69	0.00	129.93	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	73.48	0.00	41.11	0.00	0.00	0.00
185+00.00	0.00	0.00	0.00	8.44	2.57	19.36	43.36	1.31	33.48	0.00	0.00	0.00	0.00	0.00	0.00	0.32	0.32	1.04	87.21	7.80	10.79	4.98	2.94	11.94
186+00.00	0.00	0.00	0.00	7.65	1.46	9.80	0.00	78.96	38.83	0.00	0.00	0.00	0.00	12.41	9.18	52.67	25.36	1.11	0.00	0.00	0.00	0.00	25.76	11.68
187+00.00	0.00	0.00	0.00	5.46	2.08	8.17	0.00	150.55	68.58	0.00	0.00	0.00	0.00	9.68	9.18	20.62	79.41	10.93	0.00	0.00	0.00	0.00	22.30	11.68
188+00.00	0.00	0.00	0.00	2.60	3.61	10.02	0.00	149.88	42.83	0.00	0.00	0.00	1.33	0.74	8.58	31.02	11.94	0.00	0.00	0.00	0.00	1.33	7.27	4.53
189+00.00	0.00	0.00	0.00	2.74	4.41	10.57	0.18	206.28	48.82	0.00	0.00	0.00	10.81	0.00	3.94	42.02	1.04	0.00	0.00	0.00	0.00	6.56	3.71	0.00
190+00.00	0.00	0.00	0.00	4.44	9.04	12.69	16.25	209.40	51.75	0.00	0.00	0.00	15.48	0.00	0.00	70.10	1.02	0.00	0.00	0.00	0.00	0.00	0.00	0.00
190+89.00	0.00	0.00	0.00	2.18	19.51	31.72	42.49	194.77	53.28	0.00	0.00	0.00	22.14	0.00	0.00	78.84	31.94	2.84	0.00	0.00	0.00	0.00	0.00	0.00
191+00.00	0.00	0.00	0.00	3.44	23.64	21.53	44.66	202.97	53.23	0.00	0.00	0.00	22.41	0.00	0.00	70.48	27.13	2.81	0.00	0.00	0.00	22.07	0.00	0.00
192+00.00	0.00	0.00	0.00	1.38	113.97	33.11	48.12	223.87	49.81	0.00	0.00	0.00	7.15	0.88	0.00	155.35	35.70	1.20	0.00	0.00	0.00	9.30	0.88	0.00
193+00.00	0.00	0.00	0.00	1.28	126.34	33.93	67.83	2.76	25.74	0.00	0.00	0.00	0.00	0.00	0.00	166.99	102.23	1.10	0.00	0.00	0.00	3.88	0.08	0.00
194+00.00	0.00	0.00	0.00	1.85	74.51	30.02	43.88	4.68	23.51	0.00	0.00	0.00	0.00	0.00	0.00	117.24	34.80	1.23	0.00	0.00	0.00	0.08	3.07	0.00
194+50.00	0.00	0.00	0.00	6.34	5.23	13.17	42.78	2.97	24.64	0.00	0.00	0.00	0.00	0.00	0.00	51.43	25.20	4.21	0.00	0.00	0.00	0.11	5.96	0.00
194+75.00	0.00	0.00	0.00	11.50	0.00	9.13	43.19	2.51	77.68	0.00	0.00	0.00	0.00	0.00	0.00	42.71	12.21	15.05	0.00	0.00	0.00	0.09	7.71	0.00
195+00.00	0.00	0.00	0.00	14.62	0.00	11.51	50.09	2.37	26.83	0.00	0.00	0.00	0.00	0.00	0.00	48.47	22.41	15.05	0.00	0.00	0.00	0.08	8.36	0.00
195+82.00	0.00	0.00	0.00	5.74	3.08	12.07	50.55	1.40	41.45	0.00	0.00	0.00	2.63	1.64	0.00	15.05	3.48	9.61	0.00	0.00	0.00	2.63	10.50	0.00
196+00.00	0.00	0.00	0.00	2.89	5.20	13.45	29.60	0.83	24.56	0.00	0.00	0.00	2.78	2.01	0.00	41.25	19.88	0.00	0.00	0.00	0.00	2.78	10.02	0.00
197+00.00	0.00	0.00	0.00	0.71	8.40	14.52	20.15	6.17	25.68	0.00	0.00	0.00	3.94	12.51	0.00	15.01	22.69	3.82	0.00	0.00	0.00	3.12	12.50	0.00
198+00.00	0.00	0.00	0.00	8.54	0.00	11.86	53.55	0.57	38.41	0.00	0.00	0.00	0.10	5.77	0.00	0.16	6.48	7.87	0.00	0.00	0.00	0.10	4.59	0.00
199+00.00	0.00	0.00	0.00	16.46	0.00	12.09	29.05	2.76	37.19	0.00	0.00	0.00	3.85	0.00	0.00	0.00	20.82	1.11	0.00	0.00	0.00	0.00	3.15	0.00
200+00.00	0.00	0.00	0.00	0.00	0.00	0.00	63.79	1.68	34.16	0.00	0.00	0.00	1.18	2.60	1.36	6.13	19.03	8.21	0.00	0.00	0.00	0.25	2.53	0.00
201+00.00	0.00	0.00	0.00	0.00	0.00	0.00	77.77	1.06	15.26	11.48	0.00	0.00	3.96	0.00	0.00	0.00	0.00	0.00	53.50	11.46	59.22	0.00	0.00	0.00
202+00.00	0.00	0.00	0.00	0.00	0.00	0.00	5.42	0.00	2.14	26.98	3.79	29.71	3.56	2.46	0.00	0.00	0.00	0.00	21.46	0.60	14.19	0.46	2.46	0.00
203+00.00	0.00	0.00	0.00	0.00	0.00	0.00	37.11	1.36	16.63	14.86	2.18	16.19	12.62	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	3.03	0.00	0.00

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AECOM
303 EAST WACKER DRIVE, SUITE 1400
CHICAGO, IL 60601-5276
PHONE: (312) 373-7700 FAX: (312) 373-6800

USER NAME = muniza	DESIGNED - APA	REVISED -	
	DRAWN - APA	REVISED -	
PLOT SCALE = 100.0000 ' / in.	CHECKED - TJW	REVISED -	
PLOT DATE = 2/10/2025	DATE - 02/06/2025	REVISED -	

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

APPROXIMATE MEASURED END AREAS BY STAGE
IL-47

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

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
326	2024-1052-N,C,SW,FL	MCHENRY	941	867B
		CONTRACT NO. 62X94		
		ILLINOIS	FED. AID PROJECT	

APPROXIMATE MEASURED END AREAS BY STAGE – IL ROUTE 47 (CONTINUED)

	PRESTAGE A			PRESTAGE B			STAGE 1A			STAGE 1B			STAGE 1C			STAGE 2A			STAGE 2B			STAGE 3		
STATION	CUT (SQ FT)	FILL (SQ FT)	REMOVAL AND DISPOSAL OF UNSUITABLE MATERIAL (SQ FT)	CUT (SQ FT)	FILL (SQ FT)	REMOVAL AND DISPOSAL OF UNSUITABLE MATERIAL (SQ FT)	CUT (SQ FT)	FILL (SQ FT)	REMOVAL AND DISPOSAL OF UNSUITABLE MATERIAL (SQ FT)	CUT (SQ FT)	FILL (SQ FT)	REMOVAL AND DISPOSAL OF UNSUITABLE MATERIAL (SQ FT)	CUT (SQ FT)	FILL (SQ FT)	REMOVAL AND DISPOSAL OF UNSUITABLE MATERIAL (SQ FT)	CUT (SQ FT)	FILL (SQ FT)	REMOVAL AND DISPOSAL OF UNSUITABLE MATERIAL (SQ FT)	CUT (SQ FT)	FILL (SQ FT)	REMOVAL AND DISPOSAL OF UNSUITABLE MATERIAL (SQ FT)	CUT (SQ FT)	FILL (SQ FT)	REMOVAL AND DISPOSAL OF UNSUITABLE MATERIAL (SQ FT)
204+00.00	0.00	0.00	0.00	0.00	0.00	0.00	31.28	0.67	23.46	6.21	5.74	14.72	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
205+00.00	0.00	0.00	0.00	0.00	0.00	0.00	24.14	0.70	19.30	3.92	22.44	16.06	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
206+00.00	0.00	0.00	0.00	0.00	0.00	0.00	32.00	0.50	13.86	5.80	1.89	15.83	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
207+00.00	0.00	0.00	0.00	0.00	0.00	0.00	20.45	8.78	19.30	5.52	0.00	19.16	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
208+00.00	0.00	0.00	0.00	0.00	0.00	0.00	12.04	17.13	18.55	3.86	33.59	18.11	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
208+08.64	0.00	0.00	0.00	0.00	0.00	0.00	14.96	0.49	20.62	4.69	49.15	28.76	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00

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AECOM
303 EAST WACKER DRIVE, SUITE 1400
CHICAGO, IL 60601-5276
PHONE: (312) 373-7700 FAX: (312) 373-6800

USER NAME = muniza
PLOT SCALE = 100.0000 ' / in.
PLOT DATE = 2/10/2025

DESIGNED - APA
DRAWN - APA
CHECKED - TJW
DATE - 02/06/2025

REVISED -
REVISED -
REVISED -
REVISED -

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

APPROXIMATE MEASURED END AREAS BY STAGE
IL-47

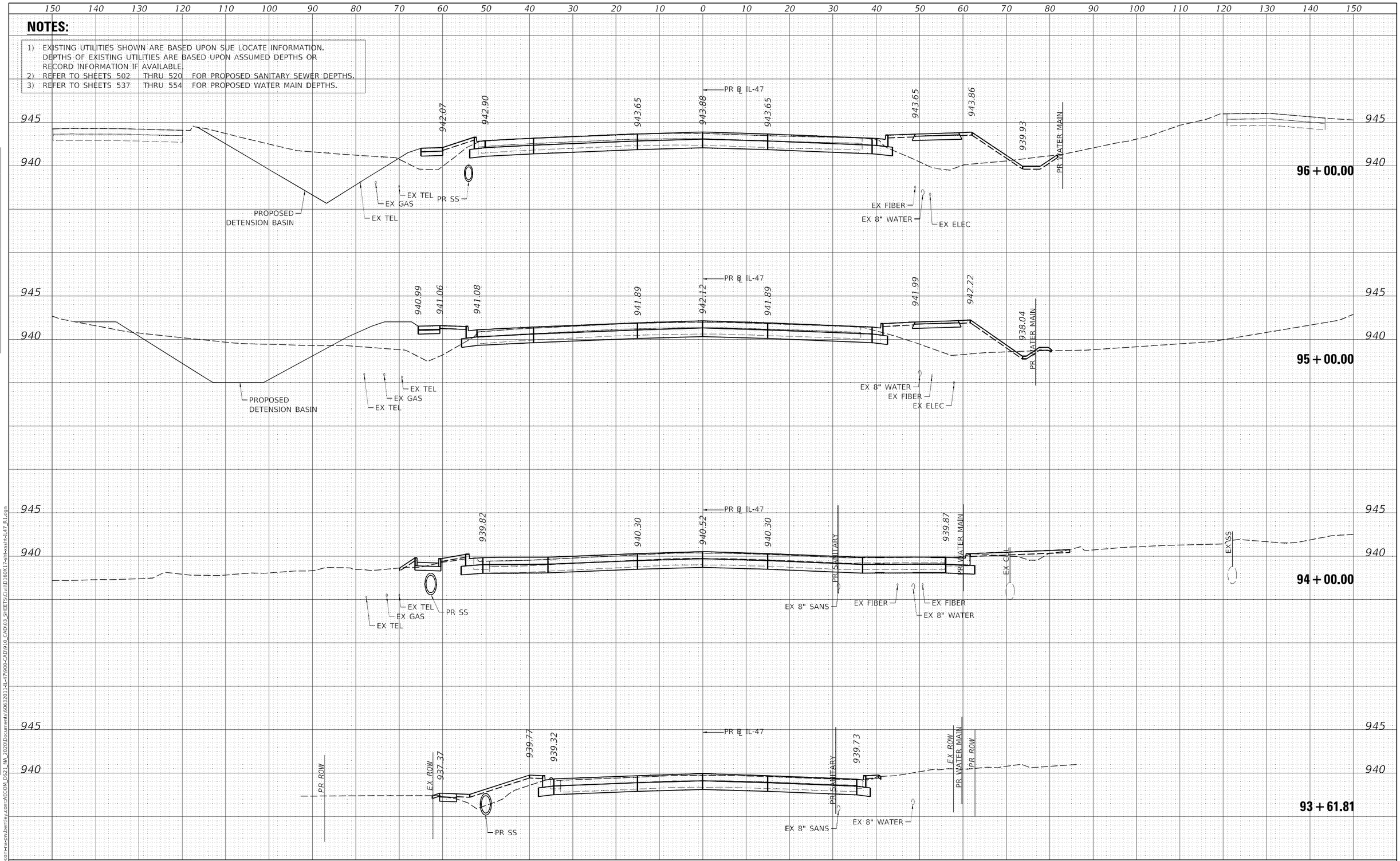
SCALE:
SHEET 3 OF 3 SHEETS
STA. TO STA.

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
326	2024-1052-N,C,SW,FL	MCHENRY	941	867C

CONTRACT NO. 62X94
ILLINOIS FED. AID PROJECT

NOTES:

1) EXISTING UTILITIES SHOWN ARE BASED UPON SUE LOCATE INFORMATION. DEPTHS OF EXISTING UTILITIES ARE BASED UPON ASSUMED DEPTHS OR RECORD INFORMATION IF AVAILABLE.
2) REFER TO SHEETS 502 THRU 520 FOR PROPOSED SANITARY SEWER DEPTHS.
3) REFER TO SHEETS 537 THRU 554 FOR PROPOSED WATER MAIN DEPTHS.



AECOM 303 EAST WACKER DRIVE, SUITE 1400 CHICAGO, IL 60601-5276 PHONE: (312) 373-7700 FAX: (312) 373-6800	USER NAME = andrew.aceron	DESIGNED -	REVISED -
		DRAWN -	REVISED -
	PLOT SCALE = 20.0000 ' / in.	CHECKED -	REVISED -
	PLOT DATE = 2/10/2025	DATE -	REVISED -

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

PROPOSED CROSS SECTIONS
IL ROUTE 47

SCALE:1"=10'H,1"=5'V | SHEET OF SHEETS | STA. 93+61.81 TO STA. 96+00.00

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
326	2024-1052-N,C,SW,FL	MCHENRY	941	868
		CONTRACT NO. 62X94		
		ILLINOIS	FED. AID PROJECT	

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

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

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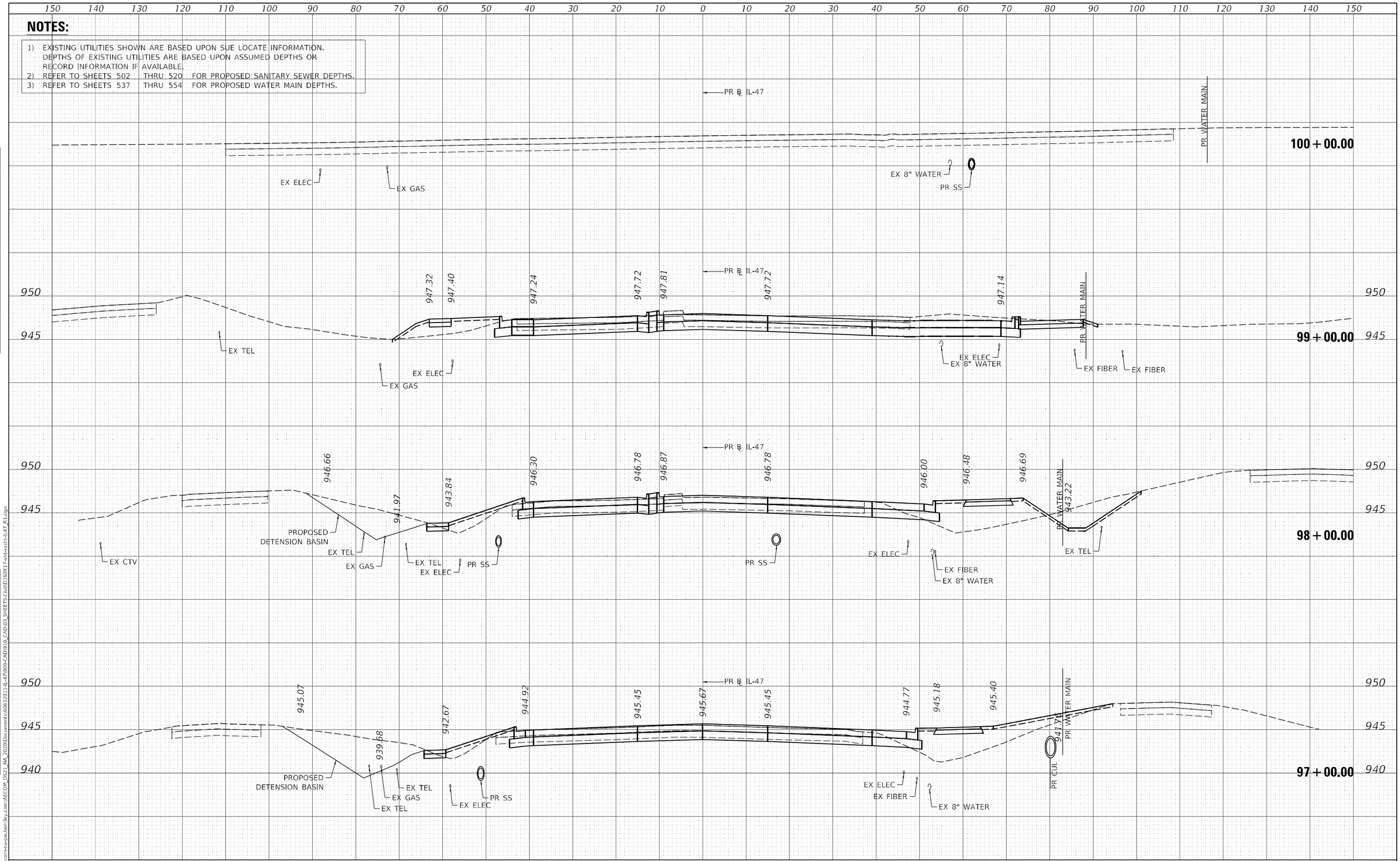
NOTES:

1) EXISTING UTILITIES SHOWN ARE BASED UPON SUE LOCATE INFORMATION. DEPTHS OF EXISTING UTILITIES ARE BASED UPON ASSUMED DEPTHS OR RECORD INFORMATION IF AVAILABLE.
2) REFER TO SHEETS 502 THRU 520 FOR PROPOSED SANITARY SEWER DEPTHS.
3) REFER TO SHEETS 537 THRU 554 FOR PROPOSED WATER MAIN DEPTHS.



USER NAME = andrew.aceron	DESIGNED -	REVISED -	
	DRAWN -	REVISED -	
PLOT SCALE = 20.0000 ' / in.	CHECKED -	REVISED -	
PLOT DATE = 2/10/2025	DATE -	REVISED -	

AECOM
303 EAST WACKER DRIVE, SUITE 1400
CHICAGO, IL 60601-5276
PHONE: (312) 373-7700 FAX: (312) 373-6800

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

PROPOSED CROSS SECTIONS
IL ROUTE 47

SCALE: 1"=10'H, 1"=5'V | SHEET OF SHEETS | STA. 97+00.00 TO STA. 100+00.00

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
326	2024-1052-N,C,SW,FL	MCHENRY	941	869
		CONTRACT NO. 62X94		
		ILLINOIS	FED. AID PROJECT	

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

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

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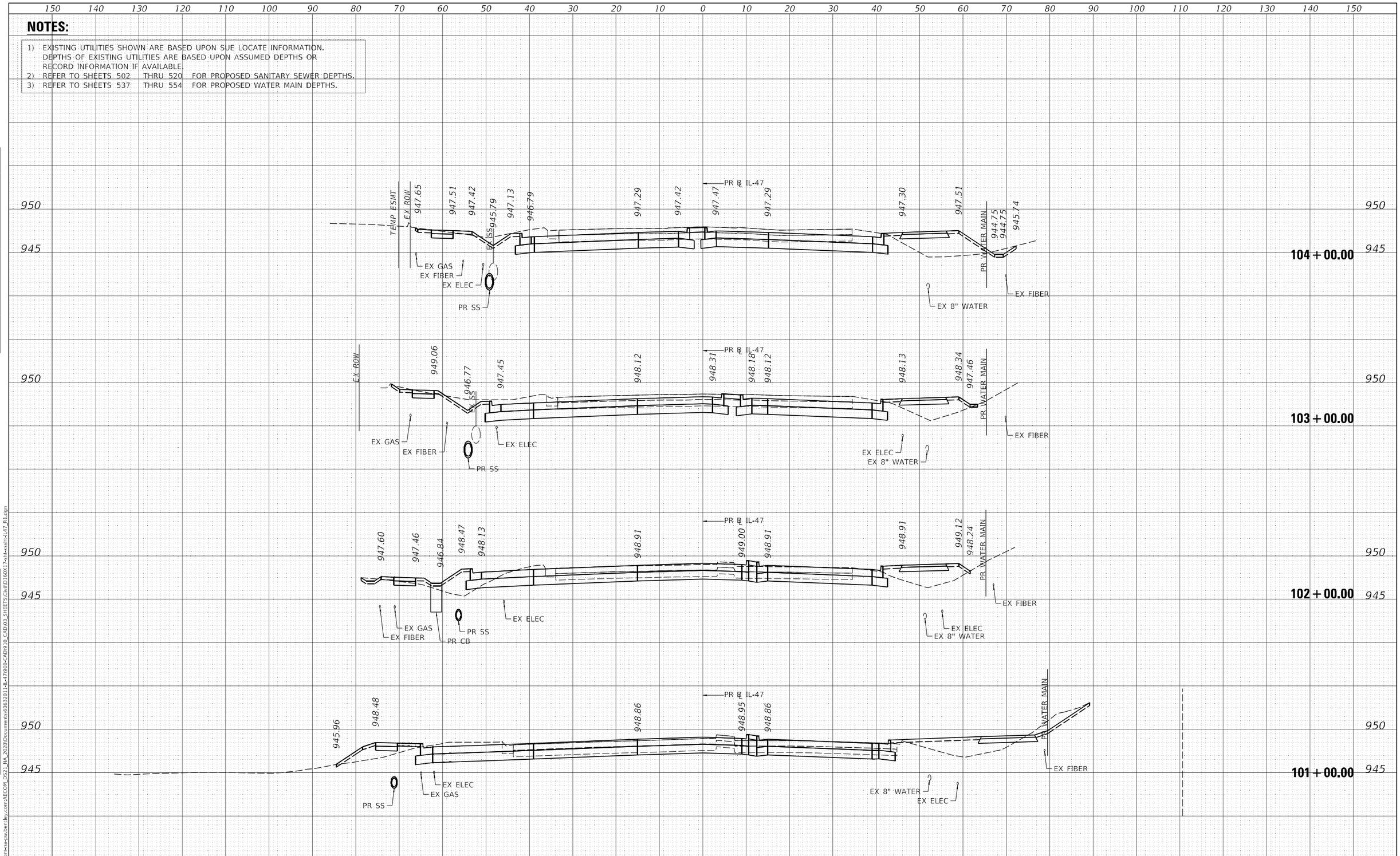
NOTES:

1) EXISTING UTILITIES SHOWN ARE BASED UPON SUE LOCATE INFORMATION. DEPTHS OF EXISTING UTILITIES ARE BASED UPON ASSUMED DEPTHS OR RECORD INFORMATION IF AVAILABLE.
2) REFER TO SHEETS 502 THRU 520 FOR PROPOSED SANITARY SEWER DEPTHS.
3) REFER TO SHEETS 537 THRU 554 FOR PROPOSED WATER MAIN DEPTHS.



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.		

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AECOM
303 EAST WACKER DRIVE, SUITE 1400
CHICAGO, IL 60601-5276
PHONE: (312) 373-7700 FAX: (312) 373-6800

USER NAME = andrew.aceron	DESIGNED -	REVISED -
	DRAWN -	REVISED -
PLOT SCALE = 20.0000 ' / in.	CHECKED -	REVISED -
PLOT DATE = 2/10/2025	DATE -	REVISED -

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

PROPOSED CROSS SECTIONS
IL ROUTE 47

SCALE: 1"=10'H, 1"=5'V | SHEET OF SHEETS | STA. 101+00.00 TO STA. 104+00.00

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
326	2024-1052-N,C,SW,FL	MCHENRY	941	870
		CONTRACT NO. 62X94		
		ILLINOIS	FED. AID PROJECT	

NOTES:

1) EXISTING UTILITIES SHOWN ARE BASED UPON SUE LOCATE INFORMATION. DEPTHS OF EXISTING UTILITIES ARE BASED UPON ASSUMED DEPTHS OR RECORD INFORMATION IF AVAILABLE.
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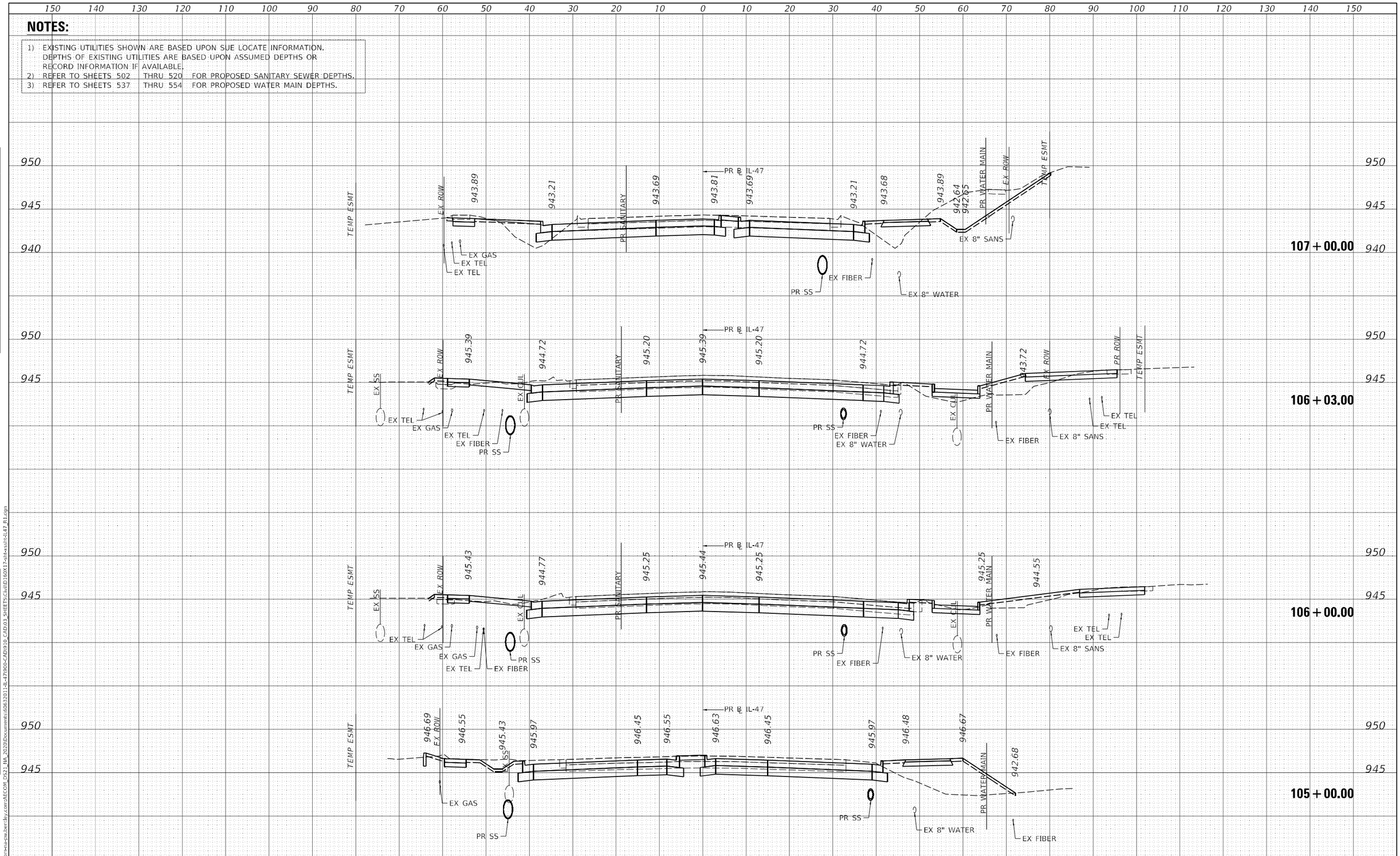

FINAL SURVEY	BY:	DATE
SURVEYED		
PLOTTED		
TEMPLATE		
AREAS		
AREAS CHECKED		
NOTE BOOK NO.		

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

MODEL: Default
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AECOM
303 EAST WACKER DRIVE, SUITE 1400
CHICAGO, IL 60601-5276
PHONE: (312) 373-7700 FAX: (312) 373-6800

USER NAME = andrew.aceron	DESIGNED -	REVISED -	
	DRAWN -	REVISED -	
PLOT SCALE = 20.0000 ' / in.	CHECKED -	REVISED -	
PLOT DATE = 2/10/2025	DATE -	REVISED -	

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

PROPOSED CROSS SECTIONS
IL ROUTE 47

SCALE:1"=10"H,1"=5'V | SHEET OF SHEETS | STA. 105+00.00 TO STA. 107+00.00

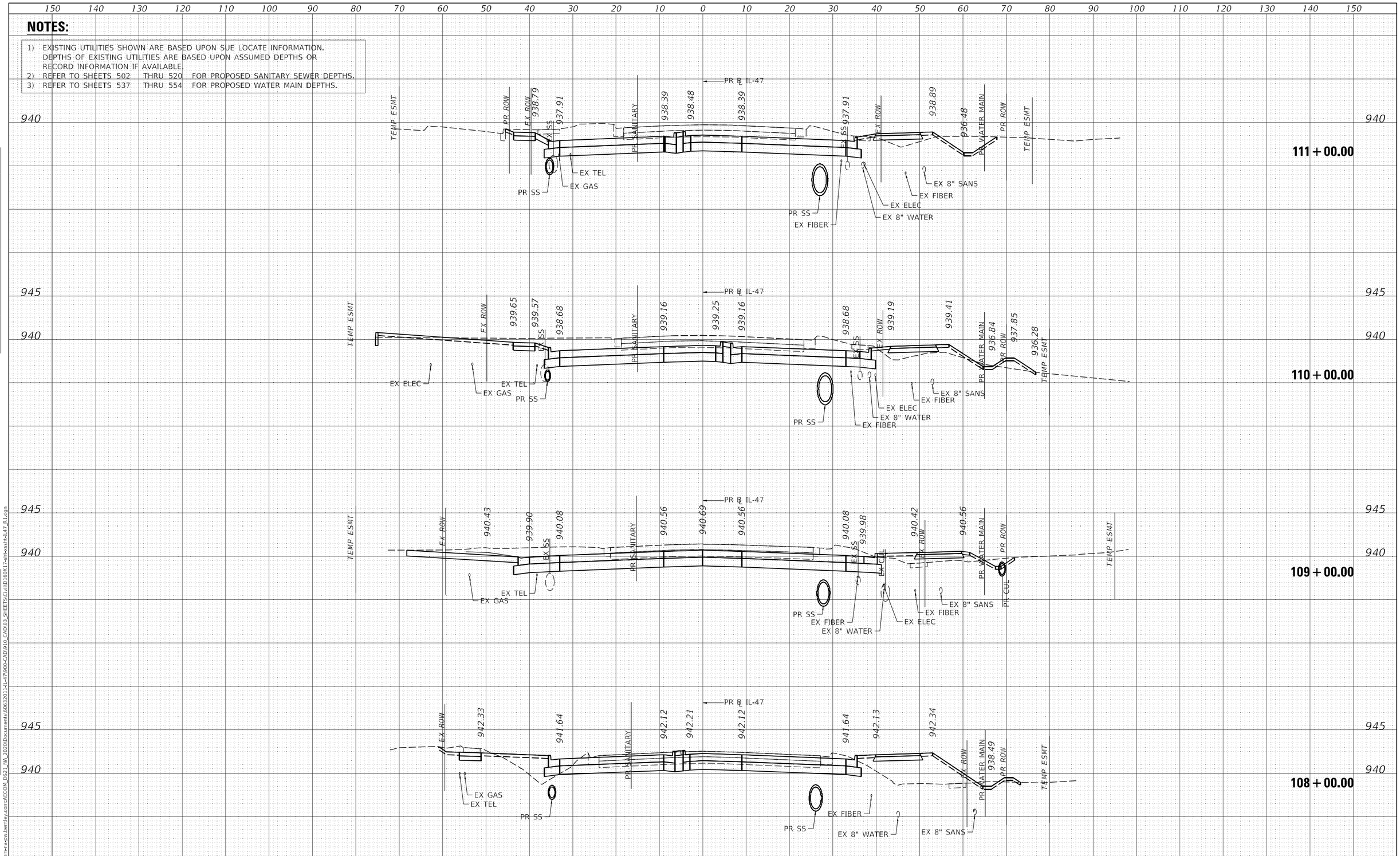
F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
326	2024-1052-N,C,SW,FL	MCHENRY	941	871

CONTRACT NO. 62X94

ILLINOIS | FED. AID PROJECT

NOTES:

1) EXISTING UTILITIES SHOWN ARE BASED UPON SUE LOCATE INFORMATION. DEPTHS OF EXISTING UTILITIES ARE BASED UPON ASSUMED DEPTHS OR RECORD INFORMATION IF AVAILABLE.
2) REFER TO SHEETS 502 THRU 520 FOR PROPOSED SANITARY SEWER DEPTHS.
3) REFER TO SHEETS 537 THRU 554 FOR PROPOSED WATER MAIN DEPTHS.



AECOM 303 EAST WACKER DRIVE, SUITE 1400 CHICAGO, IL 60601-5276 PHONE: (312) 373-7700 FAX: (312) 373-6800	USER NAME = andrew_aceron	DESIGNED -	REVISED -
		DRAWN -	REVISED -
	PLOT SCALE = 20.0000 ' / in.	CHECKED -	REVISED -
	PLOT DATE = 2/10/2025	DATE -	REVISED -

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

PROPOSED CROSS SECTIONS
IL ROUTE 47

SCALE:1"=10"H,1"=5'V | SHEET OF SHEETS | STA. 108+00.00 TO STA. 111+00.00

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
326	2024-1052-N,C,SW,FL	MCHENRY	941	872

CONTRACT NO. 62X94

ILLINOIS | FED. AID PROJECT

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

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

MODEL: Default
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NOTES:

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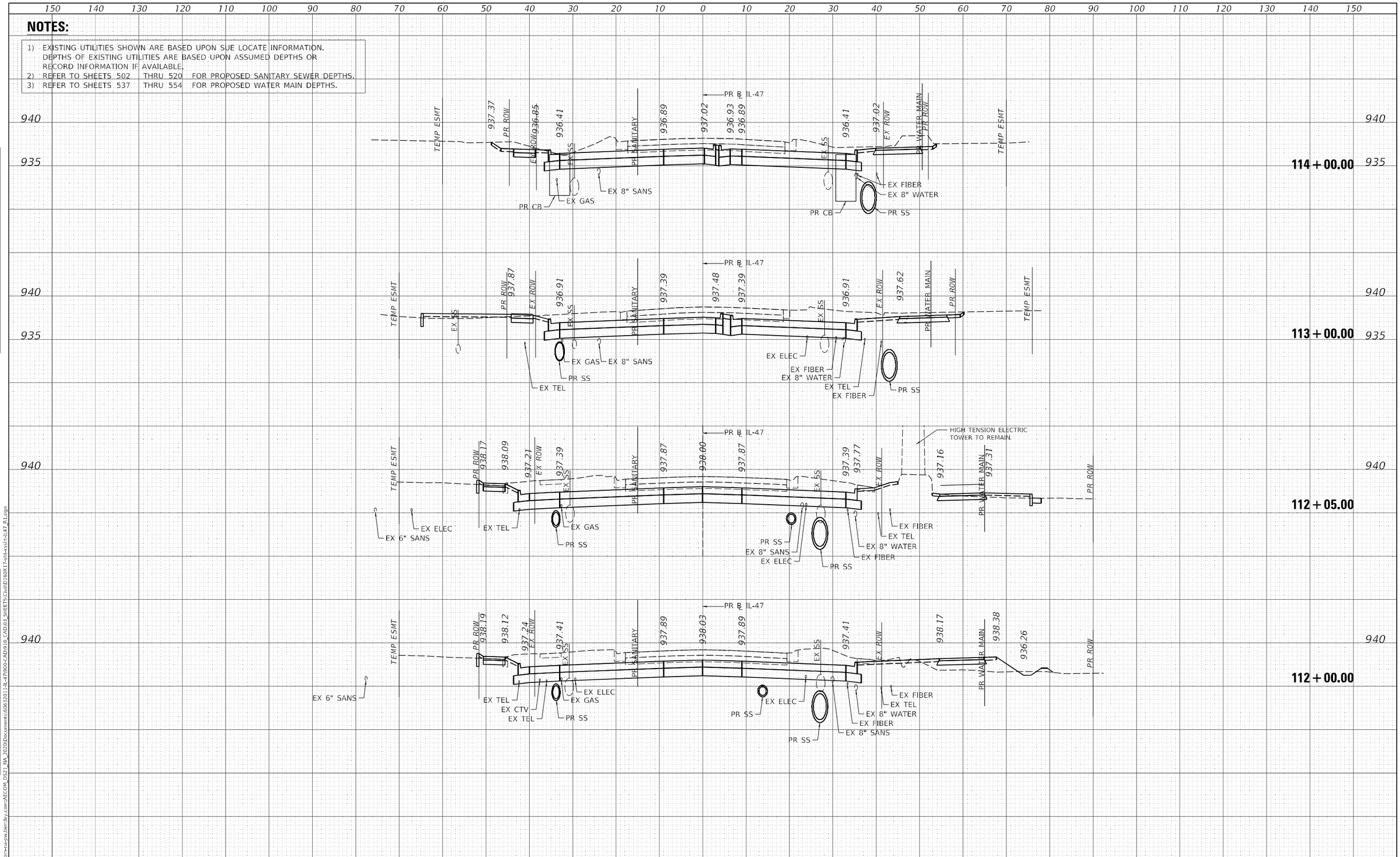
3) REFER TO SHEETS 537 THRU 554 FOR PROPOSED WATER MAIN DEPTHS.



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

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

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AECOM
303 EAST WACKER DRIVE, SUITE 1400
CHICAGO, IL 60601-5276
PHONE: (312) 373-7700 FAX: (312) 373-6800

USER NAME = andrew.aceron	DESIGNED -	REVISED -
	DRAWN -	REVISED -
PLOT SCALE = 20.0000 ' / in.	CHECKED -	REVISED -
PLOT DATE = 2/10/2025	DATE -	REVISED -

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

PROPOSED CROSS SECTIONS
IL ROUTE 47

SCALE: 1"=10'H, 1"=5'V | SHEET OF SHEETS | STA. 112+00.00 TO STA. 114+00.00

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
326	2024-1052-N,C,SW,FL	MCHENRY	941	873
		CONTRACT NO. 62X94		
		ILLINOIS	FED. AID PROJECT	

NOTES:

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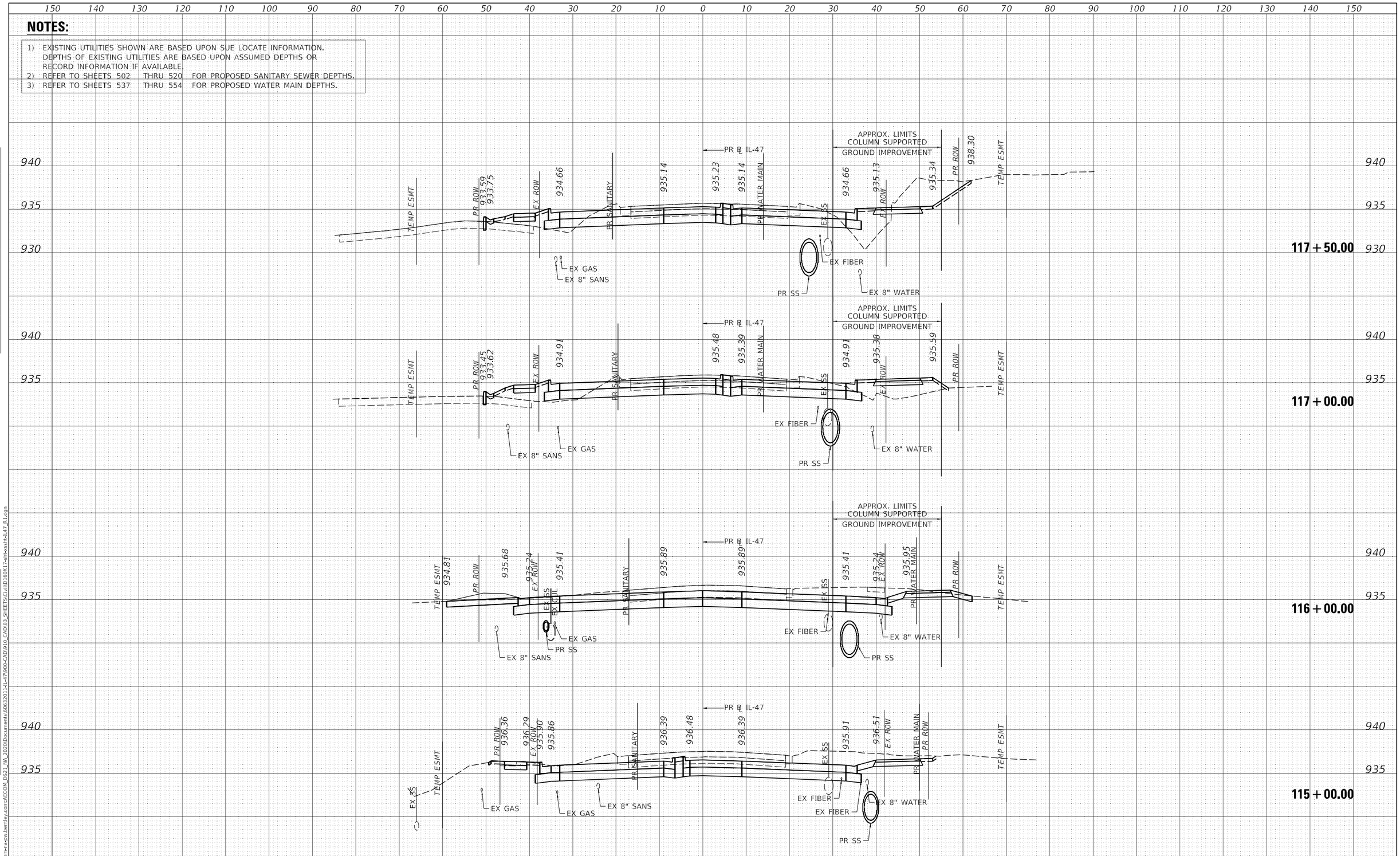
3) REFER TO SHEETS 537 THRU 554 FOR PROPOSED WATER MAIN DEPTHS.



AECOM 303 EAST WACKER DRIVE, SUITE 1400 CHICAGO, IL 60601-5276 PHONE: (312) 373-7700 FAX: (312) 373-6800	USER NAME = andrew.aceron	DESIGNED -	REVISED -	STATE OF ILLINOIS DEPARTMENT OF TRANSPORTATION	PROPOSED CROSS SECTIONS IL ROUTE 47
		DRAWN -	REVISED -		
	PLOT SCALE = 20.0000 ' / in.	CHECKED -	REVISED -		
	PLOT DATE = 2/10/2025	DATE -	REVISED -		SCALE:1"=10"H,1"=5'V SHEET OF SHEETS STA. 115+00.00 TO STA. 117+50.00

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
326	2024-1052-N,C,SW,FL	MCHENRY	941	874
		CONTRACT NO. 62X94		
		ILLINOIS FED. AID PROJECT		

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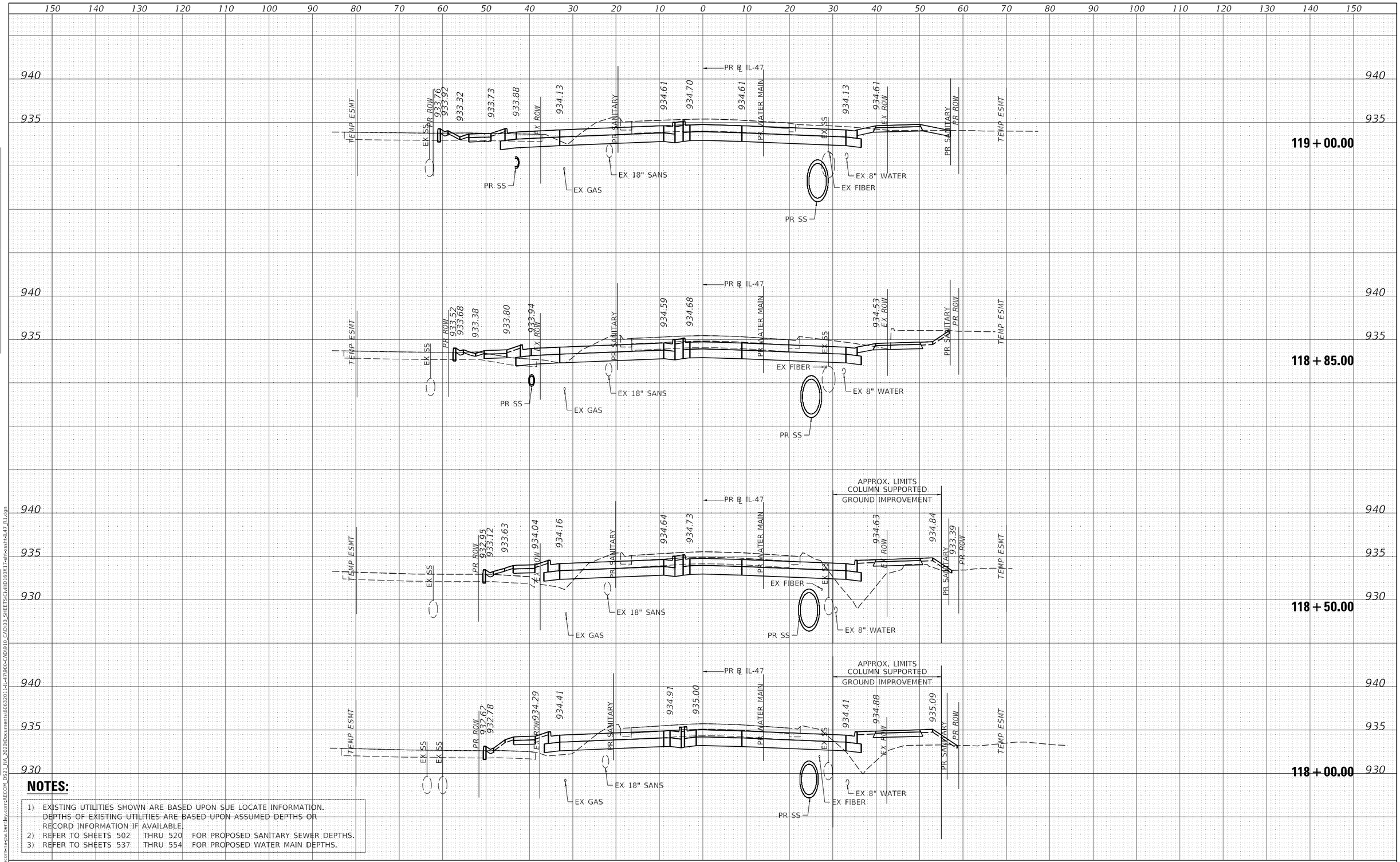
FINAL SURVEY	NOTE BOOK	NO.	SURVEYED	PLOTTED	TEMPLATE	AREAS	AREAS CHECKED	BY	DATE

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



NOTES:

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3) REFER TO SHEETS 537 THRU 554 FOR PROPOSED WATER MAIN DEPTHS.

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.		

MODEL: Default
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AECOM
303 EAST WACKER DRIVE, SUITE 1400
CHICAGO, IL 60601-5276
PHONE: (312) 373-7700 FAX: (312) 373-6800

USER NAME = andrew.aceron	DESIGNED -	REVISED -	
	DRAWN -	REVISED -	
PLOT SCALE = 20.0000 ' / in.	CHECKED -	REVISED -	
PLOT DATE = 2/10/2025	DATE -	REVISED -	

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

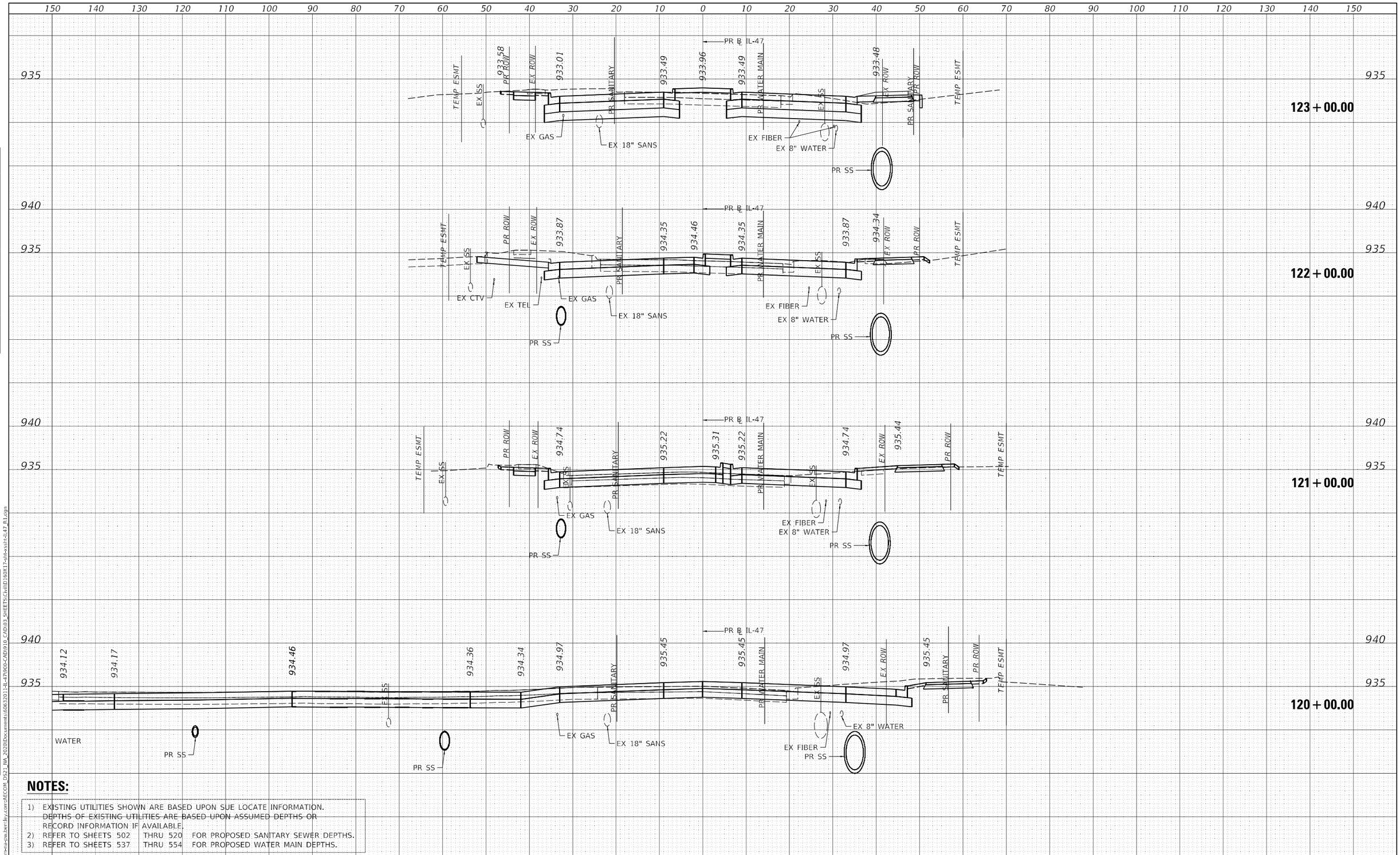
PROPOSED CROSS SECTIONS
IL ROUTE 47

SCALE:1"=10'H,1"=5'V | SHEET OF SHEETS | STA. 118+00.00 TO STA. 119+00.00

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
326	2024-1052-N,C,SW,FL	MCHENRY	941	875

CONTRACT NO. 62X94

ILLINOIS | FED. AID PROJECT



NOTES:

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3) REFER TO SHEETS 537 THRU 554 FOR PROPOSED WATER MAIN DEPTHS.

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		
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303 EAST WACKER DRIVE, SUITE 1400
CHICAGO, IL 60601-5276
PHONE: (312) 373-7700 FAX: (312) 373-6800

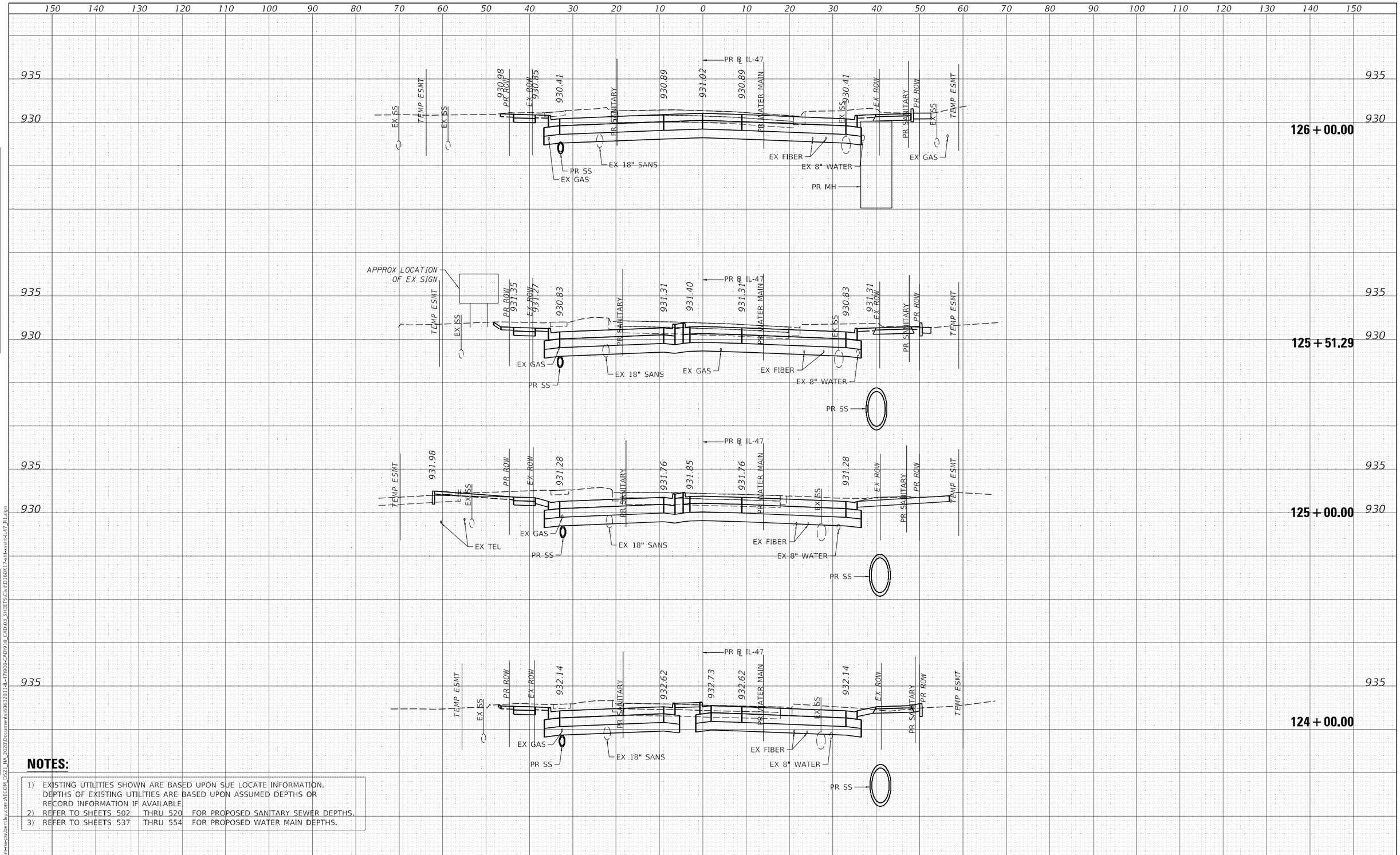
USER NAME = andrew.aceron	DESIGNED -	REVISED -
	DRAWN -	REVISED -
PLOT SCALE = 20.0000 ' / in.	CHECKED -	REVISED -
PLOT DATE = 2/10/2025	DATE -	REVISED -

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

PROPOSED CROSS SECTIONS
IL ROUTE 47

SCALE:1"=10'H,1"=5'V | SHEET OF SHEETS | STA. 120+00.00 TO STA. 123+00.00

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
326	2024-1052-N,C,SW,FL	MCHENRY	941	876
		CONTRACT NO. 62X94		
		ILLINOIS	FED. AID PROJECT	



NOTES:

1) EXISTING UTILITIES SHOWN ARE BASED UPON SUE LOCATE INFORMATION. DEPTHS OF EXISTING UTILITIES ARE BASED UPON ASSUMED DEPTHS OR RECORD INFORMATION IF AVAILABLE.
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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		
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AECOM
303 EAST WACKER DRIVE, SUITE 1400
CHICAGO, IL 60601-5276
PHONE: (312) 373-7700 FAX: (312) 373-6800

USER NAME = andrew.aceron	DESIGNED -	REVISED -	
	DRAWN -	REVISED -	
PLOT SCALE = 20.0000 ' / in.	CHECKED -	REVISED -	
PLOT DATE = 2/10/2025	DATE -	REVISED -	

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

PROPOSED CROSS SECTIONS
IL ROUTE 47

SCALE: 1"=10'H, 1"=5'V | SHEET OF SHEETS | STA. 124+00.00 TO STA. 126+00.00

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
326	2024-1052-N,C,SW,FL	MCHENRY	941	877

CONTRACT NO. 62X94

ILLINOIS | FED. AID PROJECT

NOTES:

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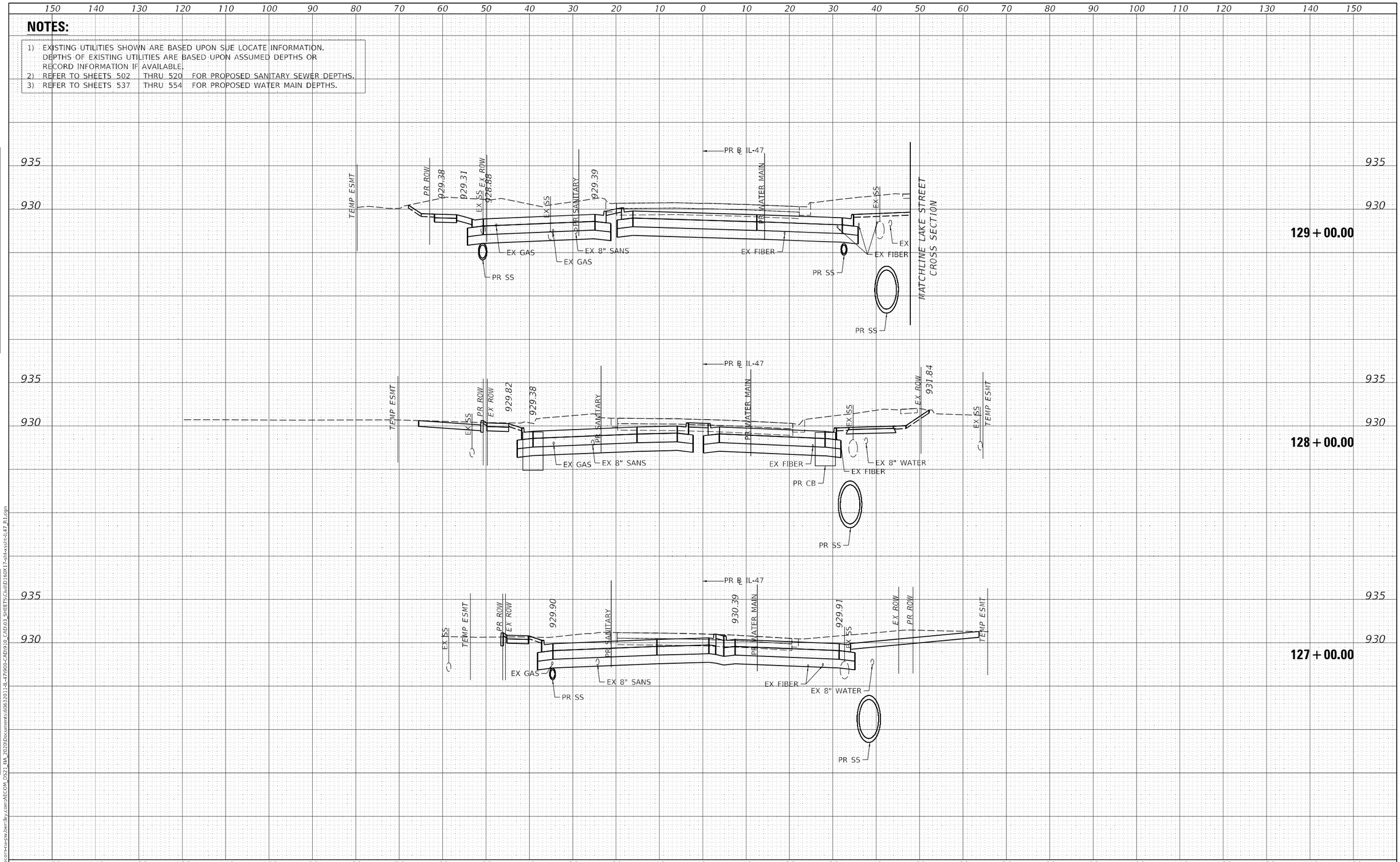

USER NAME = andrew.aceron	DESIGNED -	REVISED -	
	DRAWN -	REVISED -	
PLOT SCALE = 20.0000 ' / in.	CHECKED -	REVISED -	
PLOT DATE = 2/10/2025	DATE -	REVISED -	

AECOM
303 EAST WACKER DRIVE, SUITE 1400
CHICAGO, IL 60601-5276
PHONE: (312) 373-7700 FAX: (312) 373-6800

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

PROPOSED CROSS SECTIONS
IL ROUTE 47

SCALE: 1"=10'H, 1"=5'V | SHEET OF SHEETS | STA. 127+00.00 TO STA. 129+00.00

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
326	2024-1052-N,C,SW,FL	MCHENRY	941	878
		CONTRACT NO. 62X94		
		ILLINOIS	FED. AID PROJECT	

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NOTES:

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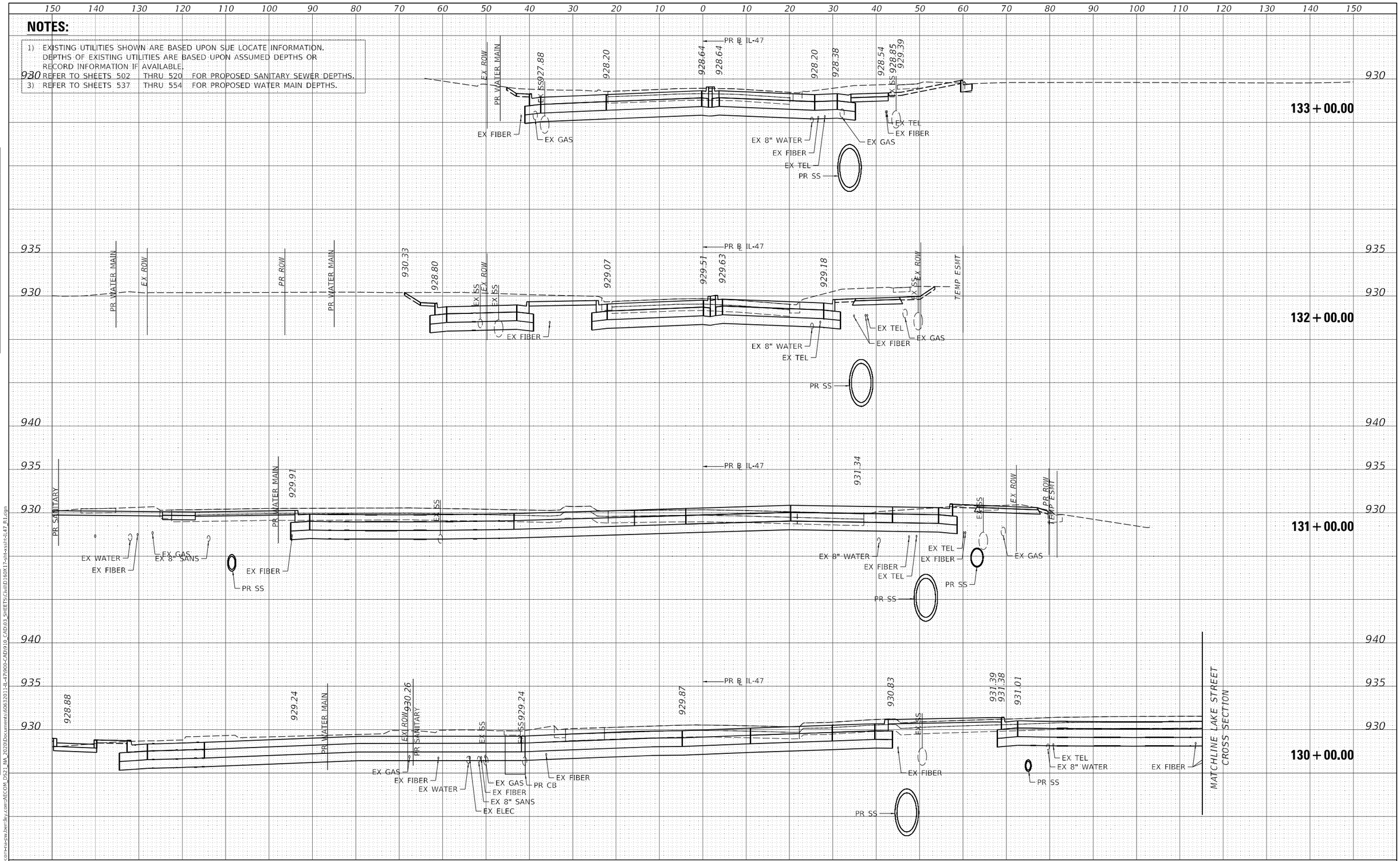

USER NAME = andrew.aceron	DESIGNED -	REVISED -	
	DRAWN -	REVISED -	
PLOT SCALE = 20.0000 ' / in.	CHECKED -	REVISED -	
PLOT DATE = 2/10/2025	DATE -	REVISED -	

AECOM
303 EAST WACKER DRIVE, SUITE 1400
CHICAGO, IL 60601-5276
PHONE: (312) 373-7700 FAX: (312) 373-6800

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

PROPOSED CROSS SECTIONS
IL ROUTE 47

SCALE: 1"=10'H, 1"=5'V | SHEET OF SHEETS | STA. 130+00.00 TO STA. 133+00.00

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
326	2024-1052-N,C,SW,FL	MCHENRY	941	879
		CONTRACT NO. 62X94		
		ILLINOIS	FED. AID PROJECT	

MODEL: Default
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NOTES:

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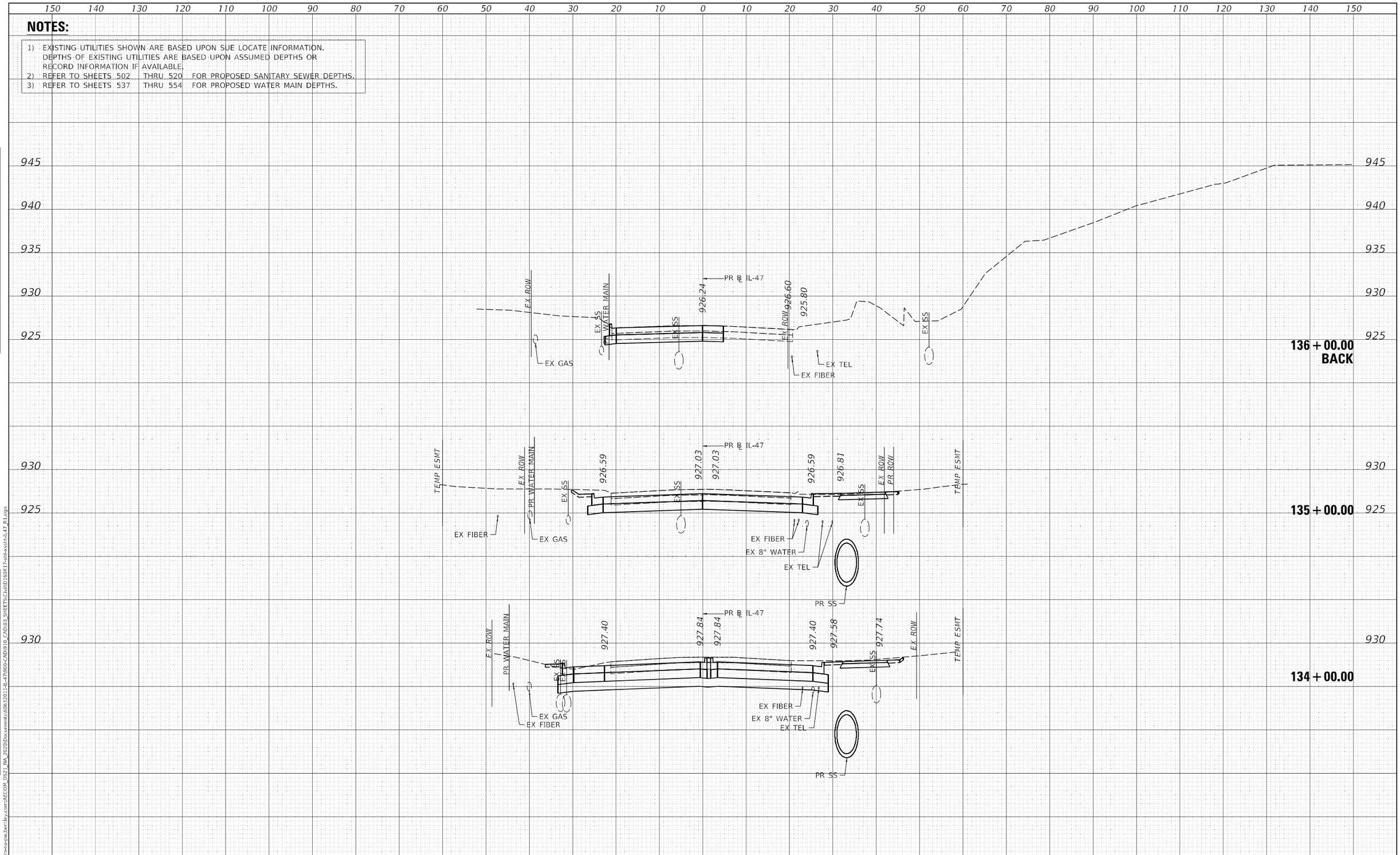

USER NAME = andrew.aceron	DESIGNED -	REVISED -	
	DRAWN -	REVISED -	
PLOT SCALE = 20.0000 ' / in.	CHECKED -	REVISED -	
PLOT DATE = 2/10/2025	DATE -	REVISED -	

AECOM
303 EAST WACKER DRIVE, SUITE 1400
CHICAGO, IL 60601-5276
PHONE: (312) 373-7700 FAX: (312) 373-6800

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

PROPOSED CROSS SECTIONS
IL ROUTE 47

SCALE:1"=10'H,1"=5'V | SHEET OF SHEETS | STA. 134+00.00 TO STA. 136+00.00

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
326	2024-1052-N,C,SW,FL	MCHENRY	941	880
		CONTRACT NO. 62X94		
		ILLINOIS FED. AID PROJECT		

MODEL: Default
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NOTES:

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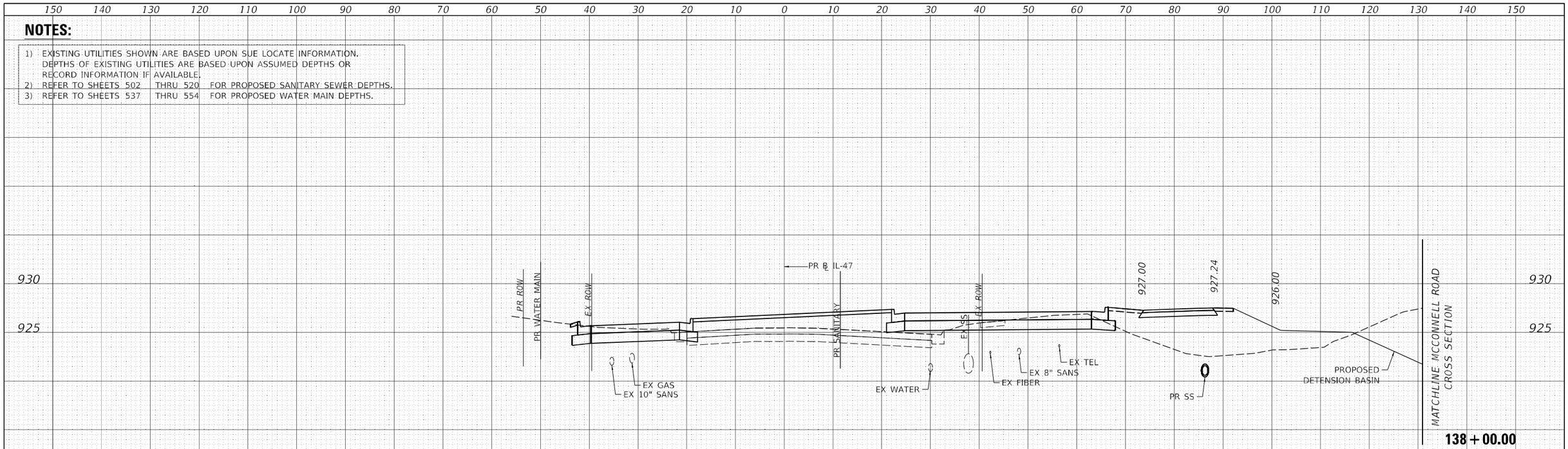

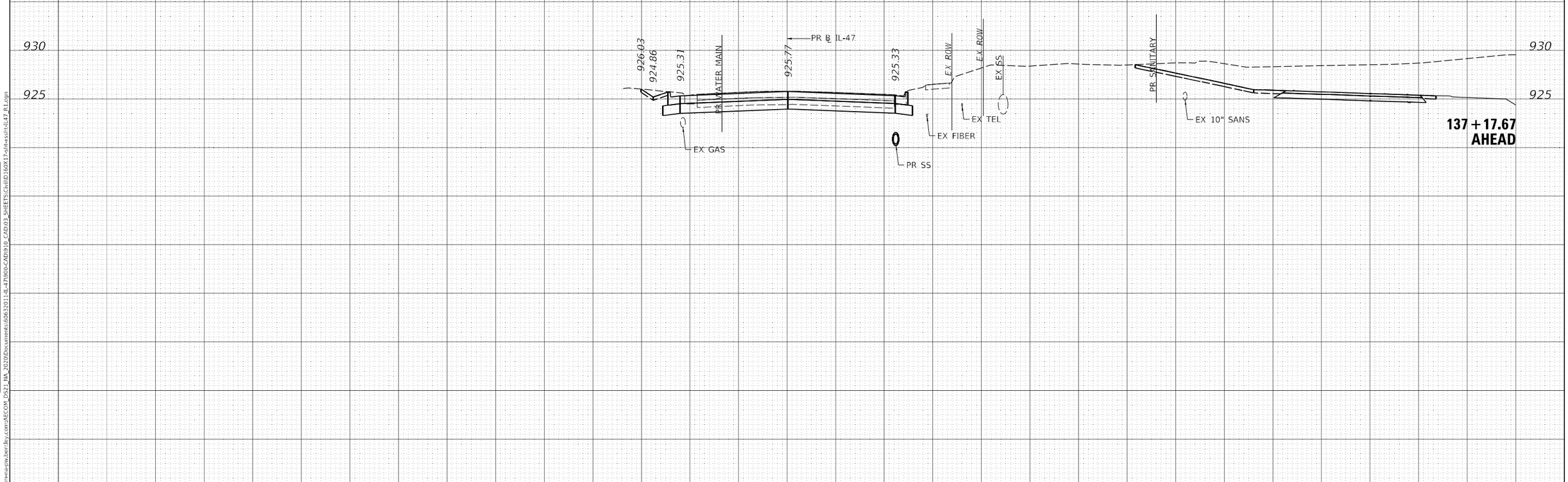

AECOM 303 EAST WACKER DRIVE, SUITE 1400 CHICAGO, IL 60601-5276 PHONE: (312) 373-7700 FAX: (312) 373-6800	USER NAME = andrew.aceron	DESIGNED -	REVISED -
		DRAWN -	REVISED -
	PLOT SCALE = 20.0000 ' / in.	CHECKED -	REVISED -
	PLOT DATE = 2/10/2025	DATE -	REVISED -

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

PROPOSED CROSS SECTIONS
IL ROUTE 47

SCALE:1"=10'H,1"=5'V | SHEET OF SHEETS | STA. 137+17.67 TO STA. 138+00.00

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
326	2024-1052-N,C,SW,FL	MCHENRY	941	881
		CONTRACT NO. 62X94		
		ILLINOIS	FED. AID PROJECT	

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

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

MODEL: Default
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NOTES:

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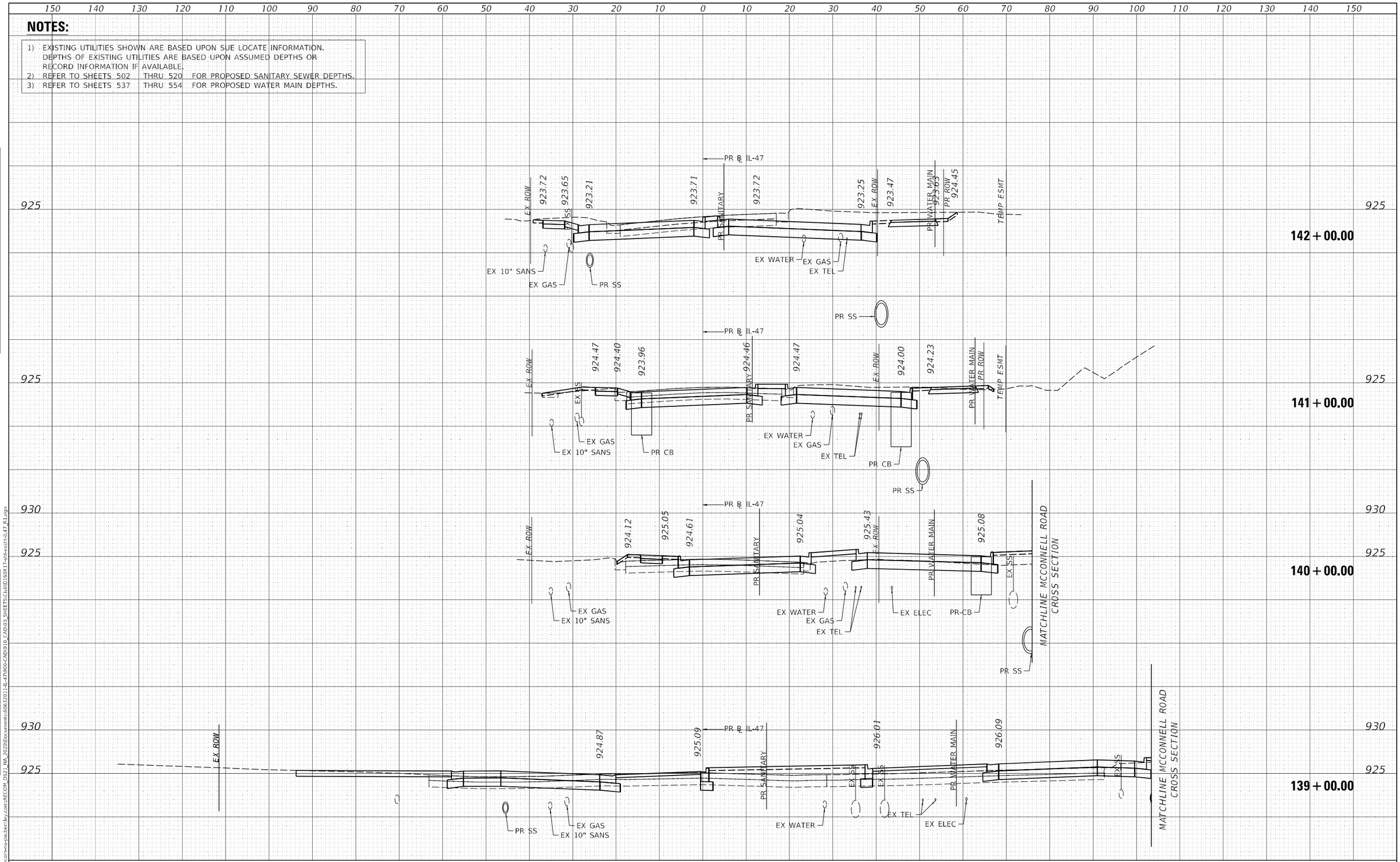


AECOM 303 EAST WACKER DRIVE, SUITE 1400 CHICAGO, IL 60601-5276 PHONE: (312) 373-7700 FAX: (312) 373-6800	USER NAME = andrew_aceron	DESIGNED -	REVISED -
		DRAWN -	REVISED -
	PLOT SCALE = 20.0000 ' / in.	CHECKED -	REVISED -
	PLOT DATE = 2/10/2025	DATE -	REVISED -

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

PROPOSED CROSS SECTIONS
IL ROUTE 47

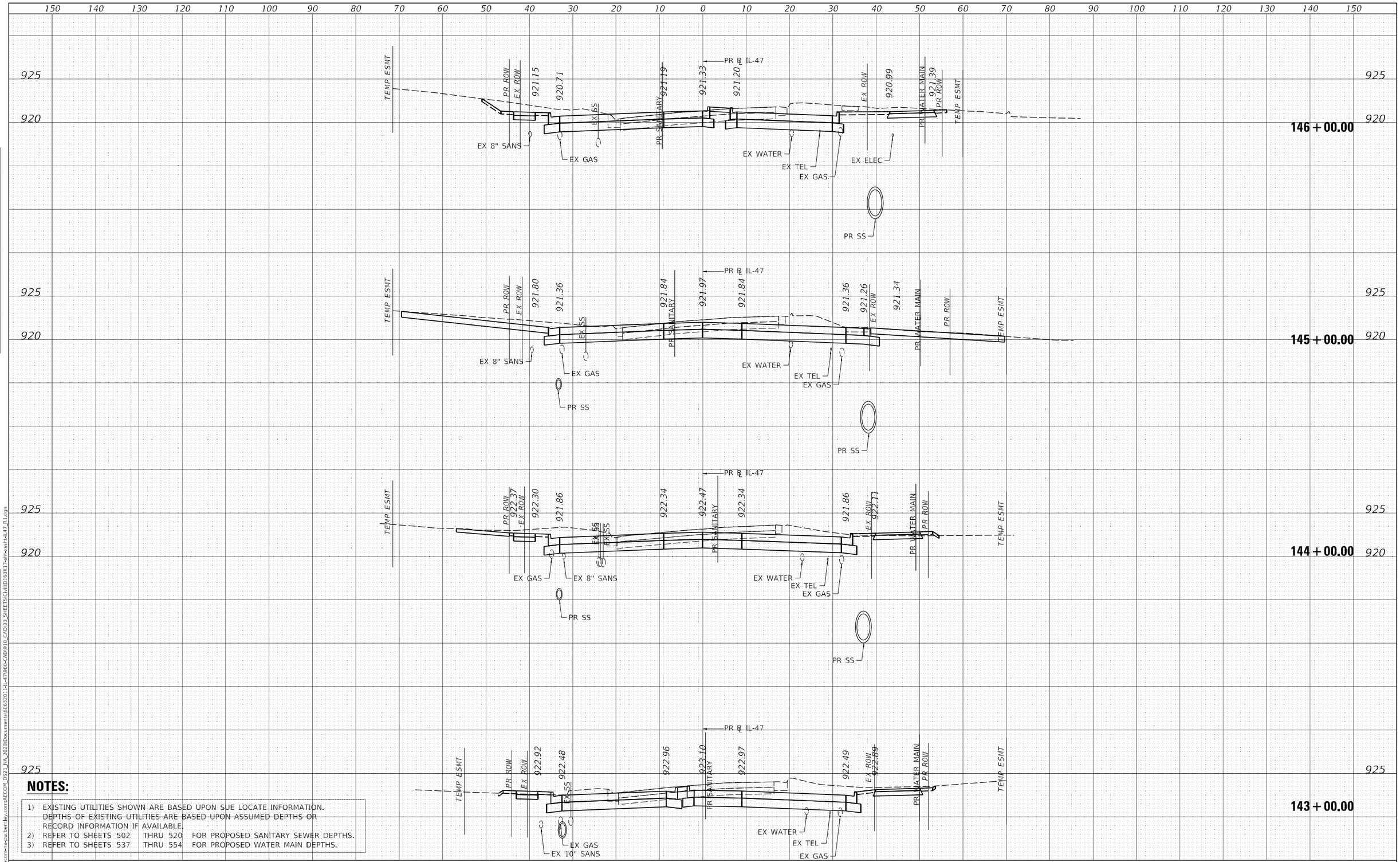
SCALE: 1"=10'H, 1"=5'V | SHEET OF SHEETS | STA. 139+00.00 TO STA. 142+00.00

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
326	2024-1052-N,C,SW,FL	MCHENRY	941	882

CONTRACT NO. 62X94

ILLINOIS | FED. AID PROJECT

MODEL: Default
FILE NAME: pw:\\aecom-us-pw.bentley.com:AECOM_DS21_NA_2020\Documents\60632013-IL-47900-CAD\910_CAD\03_SHEETS\Civil\ID160X17-sht-ssht-IL47_R1.dgn



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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.		

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AECOM
303 EAST WACKER DRIVE, SUITE 1400
CHICAGO, IL 60601-5276
PHONE: (312) 373-7700 FAX: (312) 373-6800

USER NAME = andrew.aceron	DESIGNED -	REVISED -	
	DRAWN -	REVISED -	
PLOT SCALE = 20.0000 ' / in.	CHECKED -	REVISED -	
PLOT DATE = 2/10/2025	DATE -	REVISED -	

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

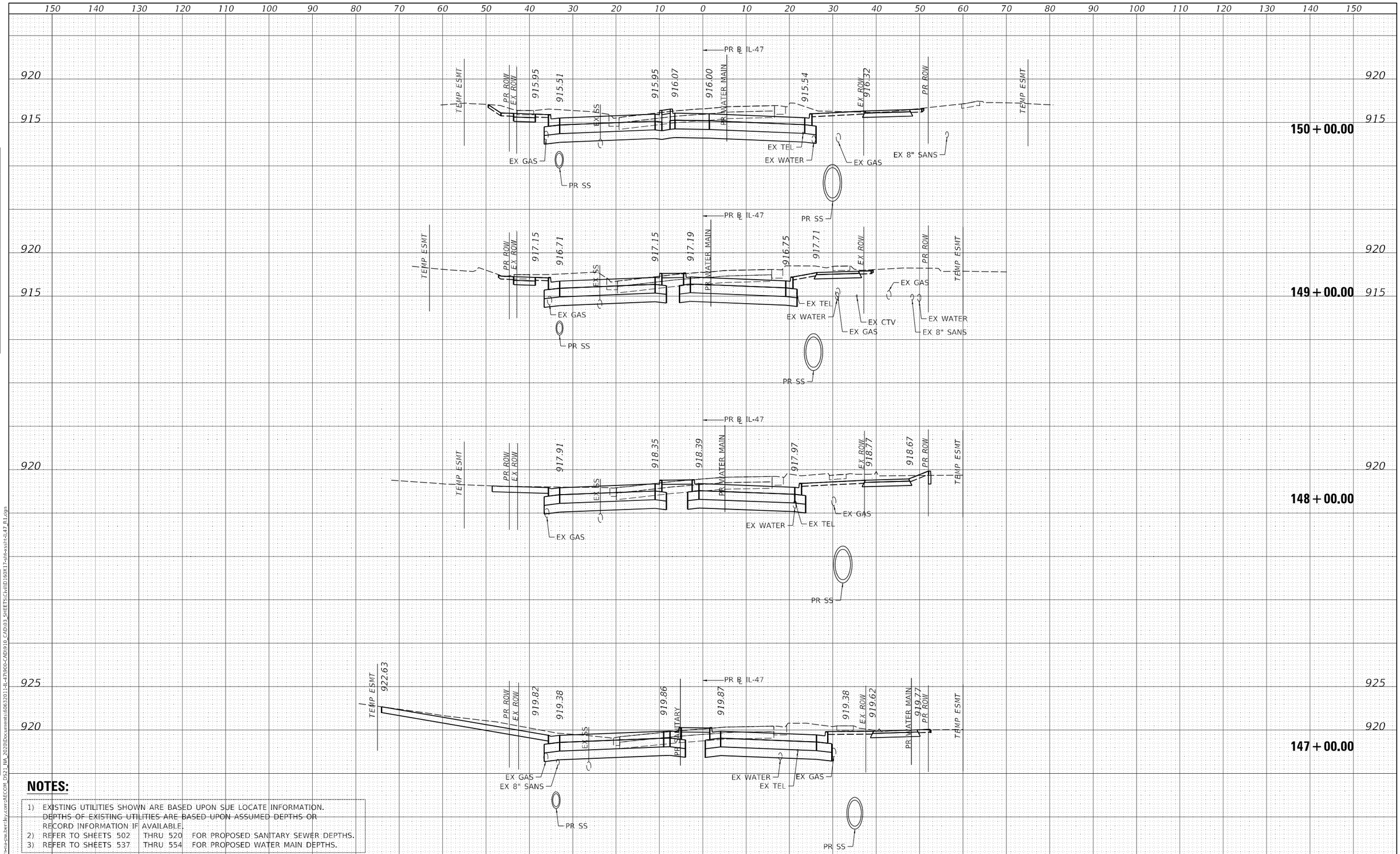
PROPOSED CROSS SECTIONS
IL ROUTE 47

SCALE: 1"=10'H, 1"=5'V | SHEET OF SHEETS | STA. 143+00.00 TO STA. 146+00.00

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
326	2024-1052-N,C,SW,FL	MCHENRY	941	883

CONTRACT NO. 62X94

ILLINOIS | FED. AID PROJECT



NOTES:

1) EXISTING UTILITIES SHOWN ARE BASED UPON SUE LOCATE INFORMATION. DEPTHS OF EXISTING UTILITIES ARE BASED UPON ASSUMED DEPTHS OR RECORD INFORMATION IF AVAILABLE.
2) REFER TO SHEETS 502 THRU 520 FOR PROPOSED SANITARY SEWER DEPTHS.
3) REFER TO SHEETS 537 THRU 554 FOR PROPOSED WATER MAIN DEPTHS.

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.		

MODEL: Default
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AECOM
303 EAST WACKER DRIVE, SUITE 1400
CHICAGO, IL 60601-5276
PHONE: (312) 373-7700 FAX: (312) 373-6800

USER NAME = andrew.aceron	DESIGNED -	REVISED -
	DRAWN -	REVISED -
PLOT SCALE = 20.0000 ' / in.	CHECKED -	REVISED -
PLOT DATE = 2/10/2025	DATE -	REVISED -

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

PROPOSED CROSS SECTIONS
IL ROUTE 47

SCALE: 1"=10'H, 1"=5'V | SHEET OF SHEETS | STA. 147+00.00 TO STA. 150+00.00

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
326	2024-1052-N,C,SW,FL	MCHENRY	941	884
		CONTRACT NO. 62X94		
		ILLINOIS	FED. AID PROJECT	

NOTES:

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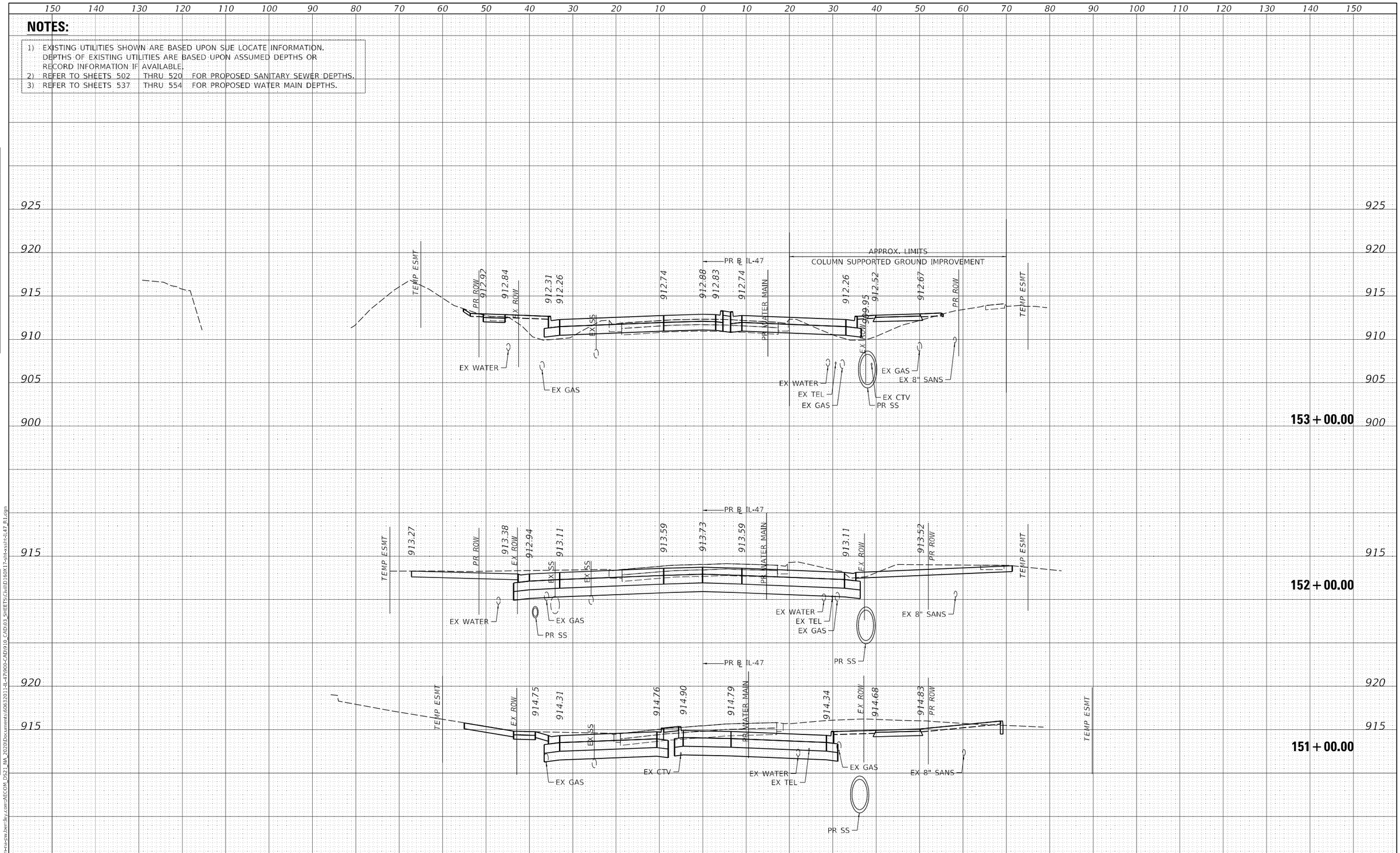
2) REFER TO SHEETS 502 THRU 520 FOR PROPOSED SANITARY SEWER DEPTHS.
3) REFER TO SHEETS 537 THRU 554 FOR PROPOSED WATER MAIN DEPTHS.



AECOM 303 EAST WACKER DRIVE, SUITE 1400 CHICAGO, IL 60601-5276 PHONE: (312) 373-7700 FAX: (312) 373-6800	USER NAME = andrew.aceron	DESIGNED -	REVISED -
		DRAWN -	REVISED -
	PLOT SCALE = 20.0000 ' / in.	CHECKED -	REVISED -
	PLOT DATE = 2/10/2025	DATE -	REVISED -

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

PROPOSED CROSS SECTIONS
IL ROUTE 47

SCALE:1"=10'H,1"=5'V | SHEET OF SHEETS | STA. 151+00.00 TO STA. 153+00.00

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
326	2024-1052-N,C,SW,FL	MCHENRY	941	885
		CONTRACT NO. 62X94		
		ILLINOIS	FED. AID PROJECT	

MODEL: Default
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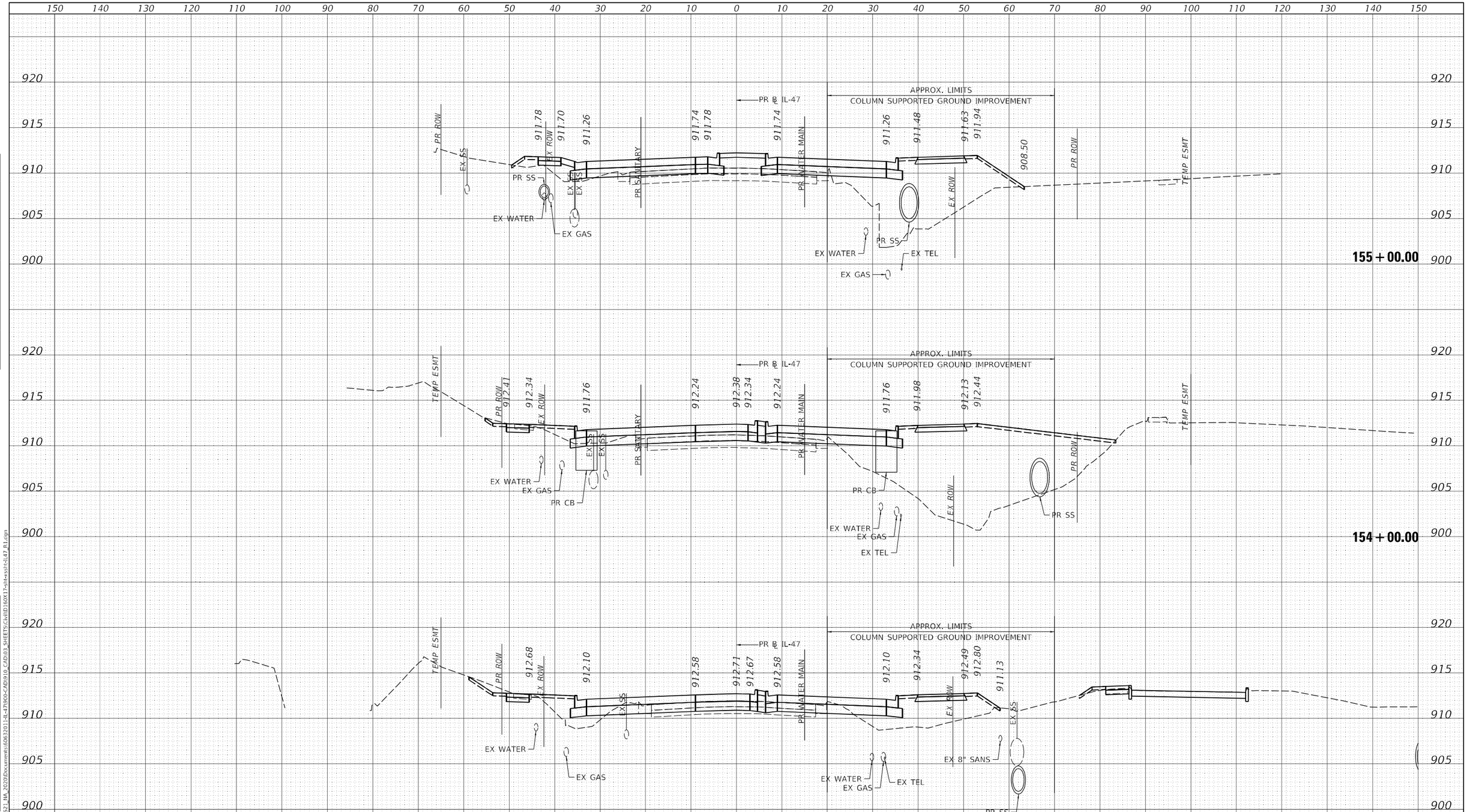

NOTES:

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CHICAGO, IL 60601-5276
PHONE: (312) 373-7700 FAX: (312) 373-6800

USER NAME = andrew.aceron	DESIGNED -	REVISED -	
	DRAWN -	REVISED -	
PLOT SCALE = 20.0000 ' / in.	CHECKED -	REVISED -	
PLOT DATE = 2/10/2025	DATE -	REVISED -	

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

PROPOSED CROSS SECTIONS
IL ROUTE 47

SCALE:1"=10'H,1"=5'V | SHEET OF SHEETS | STA. 153+32.50 TO STA. 155+00.00

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
326	2024-1052-N,C,SW,FL	MCHENRY	941	886
		CONTRACT NO. 62X94		
		ILLINOIS	FED. AID PROJECT	

MODEL: Default
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NOTES:

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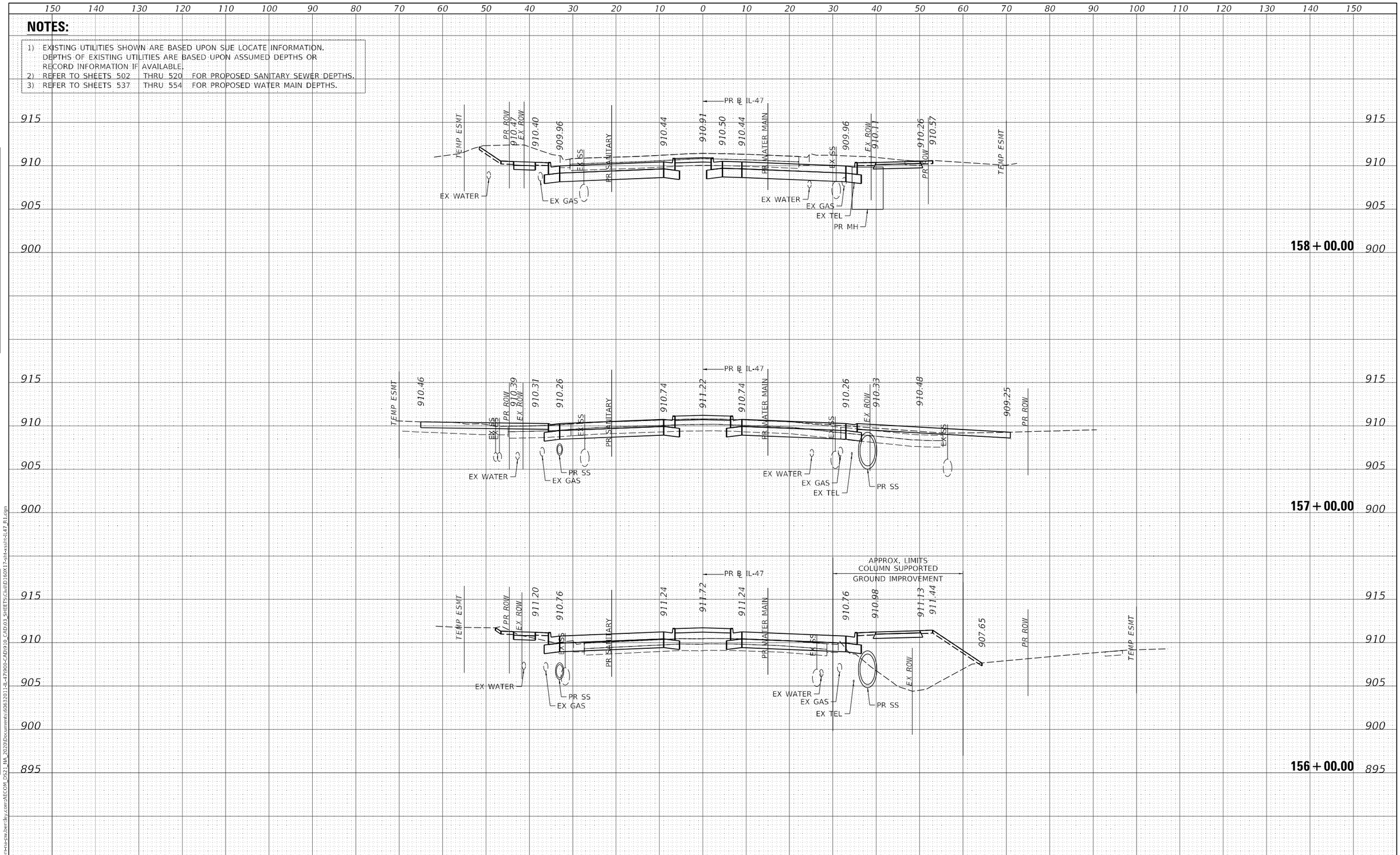

FINAL SURVEY		BY	DATE
NOTE BOOK	SURVEYED		
	PLOTTED		
	TEMPLATE		
	AREAS		
NO.	AREAS CHECKED		

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

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303 EAST WACKER DRIVE, SUITE 1400
CHICAGO, IL 60601-5276
PHONE: (312) 373-7700 FAX: (312) 373-6800

USER NAME = andrew.aceron	DESIGNED -	REVISED -	
	DRAWN -	REVISED -	
PLOT SCALE = 20.0000 ' / in.	CHECKED -	REVISED -	
PLOT DATE = 2/10/2025	DATE -	REVISED -	

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

PROPOSED CROSS SECTIONS
IL ROUTE 47

SCALE: 1"=10'H, 1"=5'V | SHEET OF SHEETS | STA. 156+00.00 TO STA. 158+00.00

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
326	2024-1052-N,C,SW,FL	MCHENRY	941	887

CONTRACT NO. 62X94

ILLINOIS | FED. AID PROJECT

NOTES:

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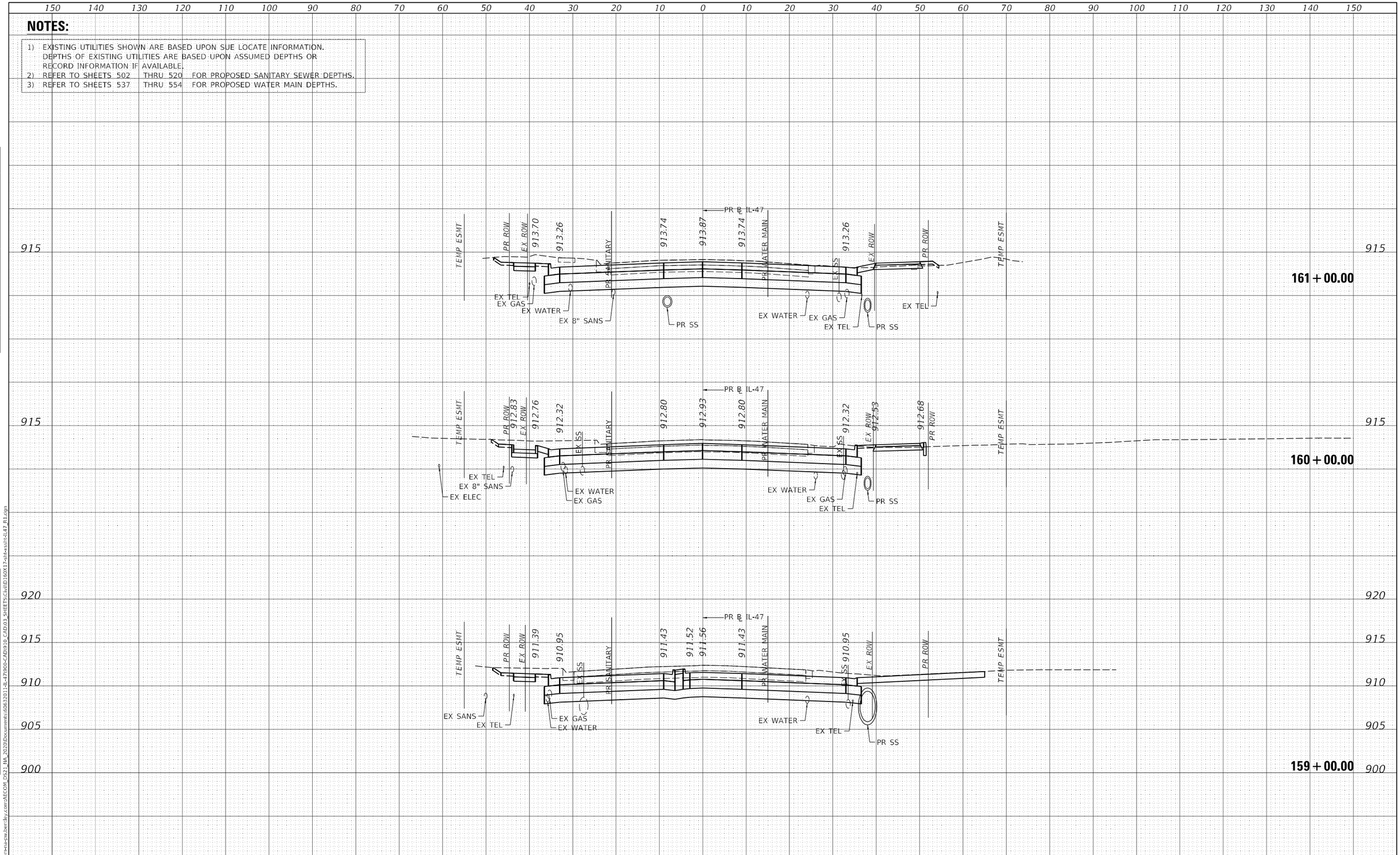
3) REFER TO SHEETS 537 THRU 554 FOR PROPOSED WATER MAIN DEPTHS.



AECOM 303 EAST WACKER DRIVE, SUITE 1400 CHICAGO, IL 60601-5276 PHONE: (312) 373-7700 FAX: (312) 373-6800	USER NAME = andrew.aceron	DESIGNED -	REVISED -
		DRAWN -	REVISED -
	PLOT SCALE = 20.0000 ' / in.	CHECKED -	REVISED -
	PLOT DATE = 2/10/2025	DATE -	REVISED -

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

PROPOSED CROSS SECTIONS
IL ROUTE 47

SCALE: 1"=10'H, 1"=5'V | SHEET OF SHEETS | STA. 159+00.00 TO STA. 161+00.00

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
326	2024-1052-N,C,SW,FL	MCHENRY	941	888

CONTRACT NO. 62X94

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		

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NOTES:

1) EXISTING UTILITIES SHOWN ARE BASED UPON SUE LOCATE INFORMATION. DEPTHS OF EXISTING UTILITIES ARE BASED UPON ASSUMED DEPTHS OR RECORD INFORMATION IF AVAILABLE.
2) REFER TO SHEETS 502 THRU 520 FOR PROPOSED SANITARY SEWER DEPTHS.
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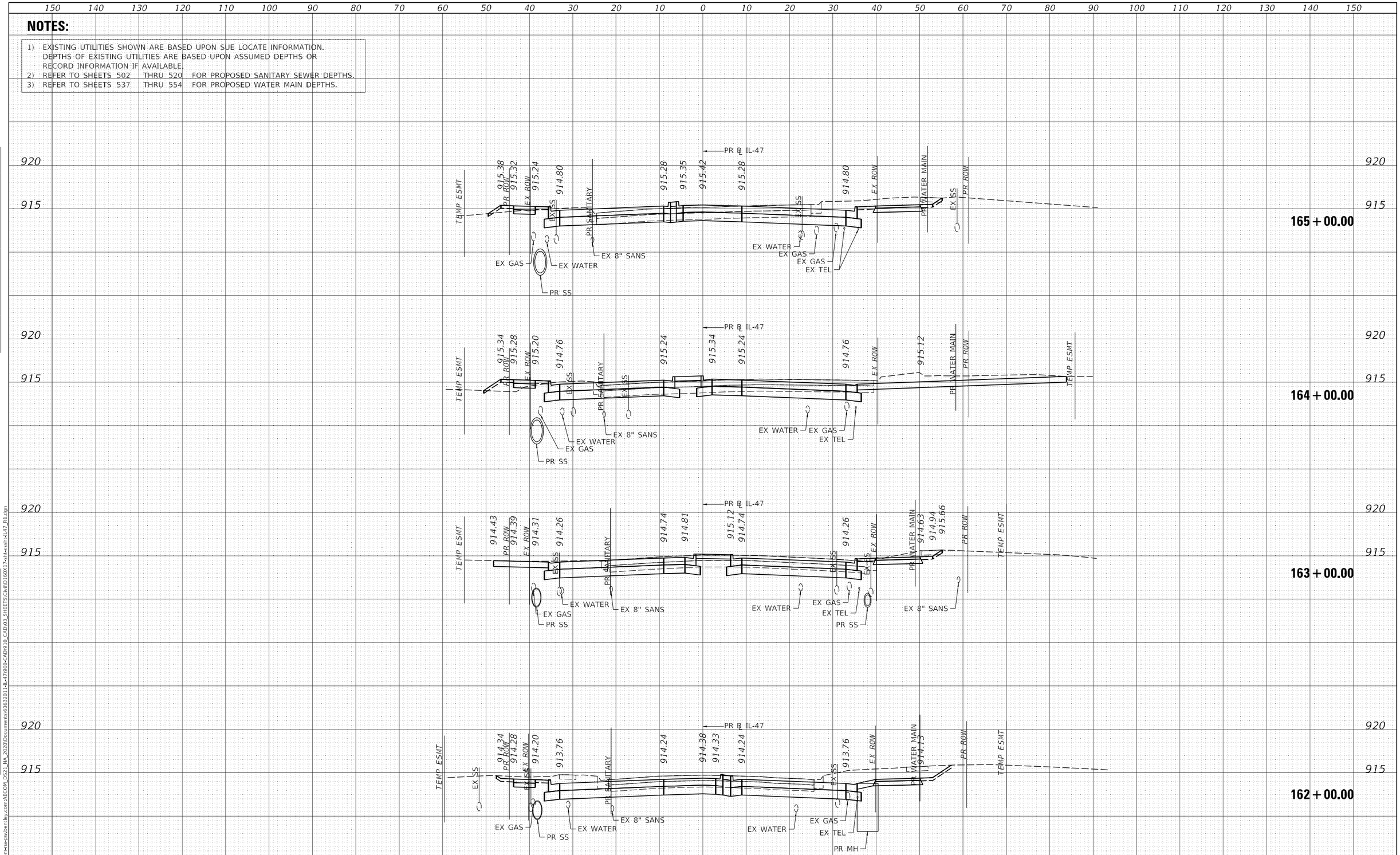


USER NAME = andrew.aceron	DESIGNED -	REVISED -	
	DRAWN -	REVISED -	
PLOT SCALE = 20.0000 ' / in.	CHECKED -	REVISED -	
PLOT DATE = 2/10/2025	DATE -	REVISED -	

AECOM
303 EAST WACKER DRIVE, SUITE 1400
CHICAGO, IL 60601-5276
PHONE: (312) 373-7700 FAX: (312) 373-6800

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

PROPOSED CROSS SECTIONS
IL ROUTE 47

SCALE: 1"=10'H, 1"=5'V | SHEET OF SHEETS | STA. 162+00.00 TO STA. 165+00.00

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
326	2024-1052-N,C,SW,FL	MCHENRY	941	889

CONTRACT NO. 62X94

ILLINOIS | FED. AID PROJECT

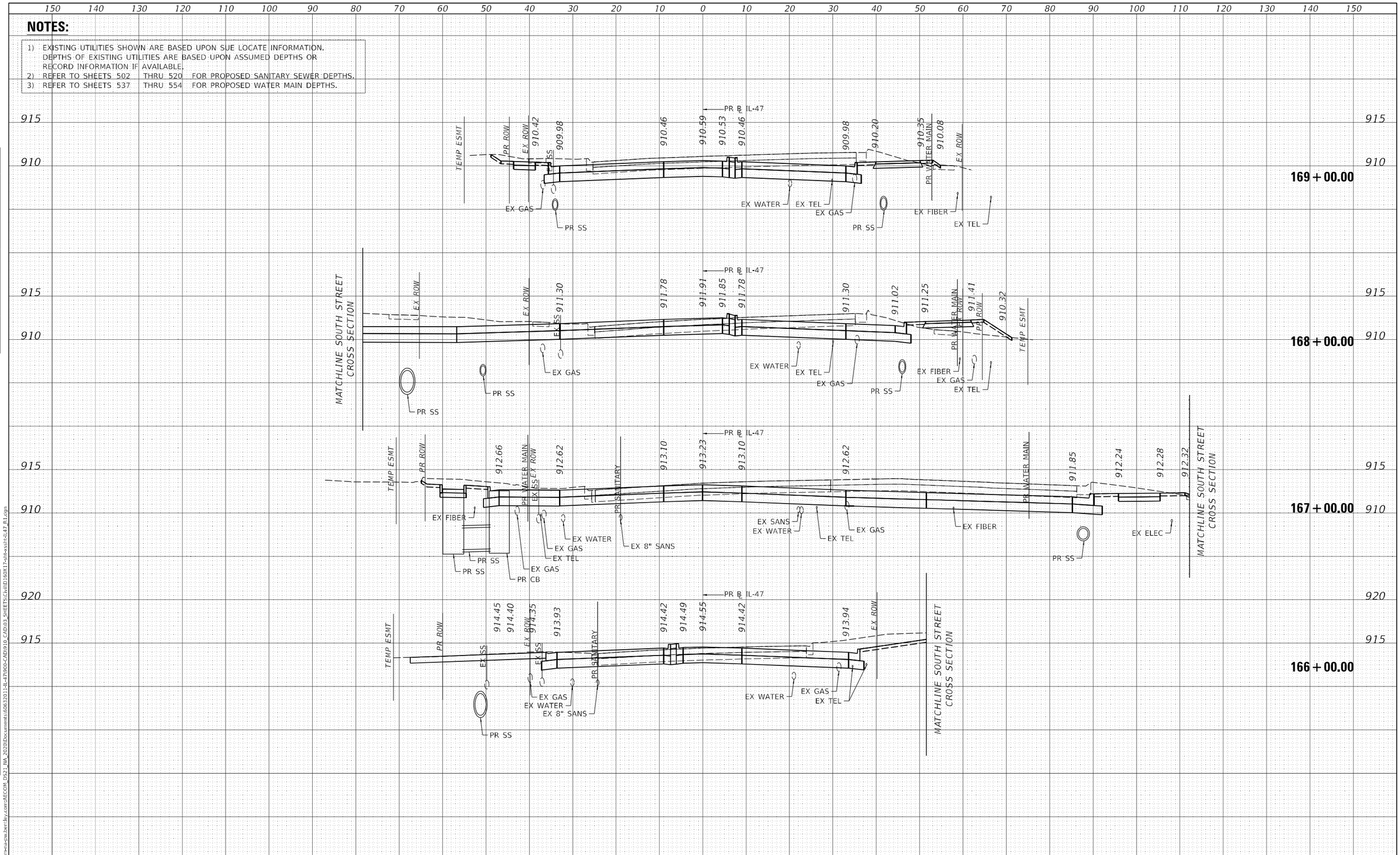
MODEL: Default
FILE NAME: pw:\\aecom-us-pw.bentley.com:AECOM_DS21_MA_2020\Documents\60632013-IL-47900-CAD\910_CAD\03_SHEETS\Civil\D160X17-sht-xsls-IL47_R1.dgn

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

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

NOTES:

1) EXISTING UTILITIES SHOWN ARE BASED UPON SUE LOCATE INFORMATION. DEPTHS OF EXISTING UTILITIES ARE BASED UPON ASSUMED DEPTHS OR RECORD INFORMATION IF AVAILABLE.
2) REFER TO SHEETS 502 THRU 520 FOR PROPOSED SANITARY SEWER DEPTHS.
3) REFER TO SHEETS 537 THRU 554 FOR PROPOSED WATER MAIN DEPTHS.



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.		

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AECOM
303 EAST WACKER DRIVE, SUITE 1400
CHICAGO, IL 60601-5276
PHONE: (312) 373-7700 FAX: (312) 373-6800

USER NAME = andrew.aceron	DESIGNED -	REVISED -
	DRAWN -	REVISED -
PLOT SCALE = 20.0000 ' / in.	CHECKED -	REVISED -
PLOT DATE = 2/10/2025	DATE -	REVISED -

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

PROPOSED CROSS SECTIONS
IL ROUTE 47

SCALE: 1"=10'H, 1"=5'V | SHEET OF SHEETS | STA. 166+00.00 TO STA. 169+00.00

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
326	2024-1052-N,C,SW,FL	MCHENRY	941	890
		CONTRACT NO. 62X94		
		ILLINOIS	FED. AID PROJECT	

NOTES:

1) EXISTING UTILITIES SHOWN ARE BASED UPON SUE LOCATE INFORMATION. DEPTHS OF EXISTING UTILITIES ARE BASED UPON ASSUMED DEPTHS OR RECORD INFORMATION IF AVAILABLE.
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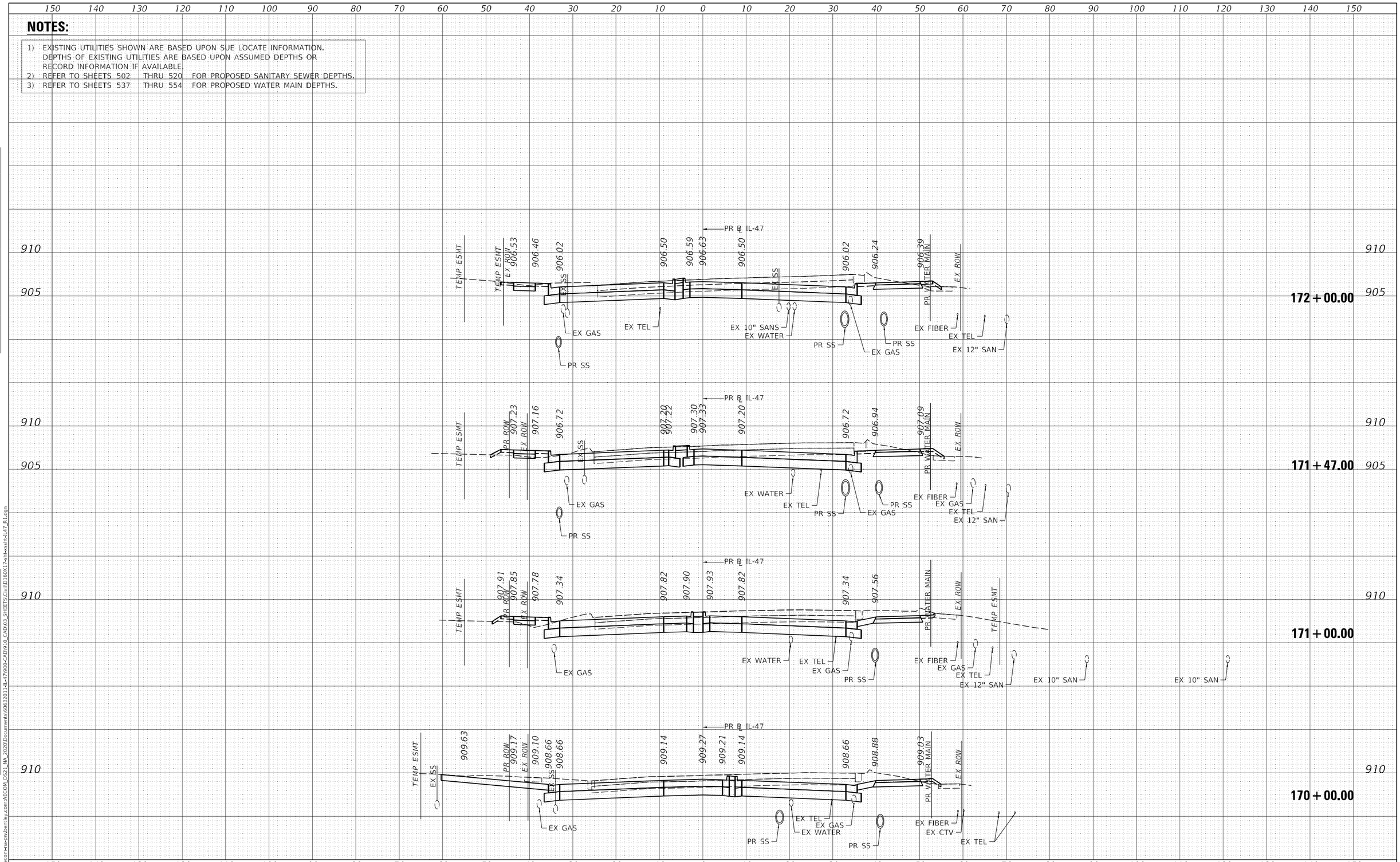

USER NAME = andrew.aceron	DESIGNED -	REVISED -	
	DRAWN -	REVISED -	
PLOT SCALE = 20.0000 ' / in.	CHECKED -	REVISED -	
PLOT DATE = 2/10/2025	DATE -	REVISED -	

AECOM
303 EAST WACKER DRIVE, SUITE 1400
CHICAGO, IL 60601-5276
PHONE: (312) 373-7700 FAX: (312) 373-6800

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

PROPOSED CROSS SECTIONS
IL ROUTE 47

SCALE:1"=10'H,1"=5'V | SHEET OF SHEETS | STA. 170+00.00 TO STA. 172+00.00

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
326	2024-1052-N,C,SW,FL	MCHENRY	941	891
		CONTRACT NO. 62X94		
		ILLINOIS	FED. AID PROJECT	

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

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

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NOTES:

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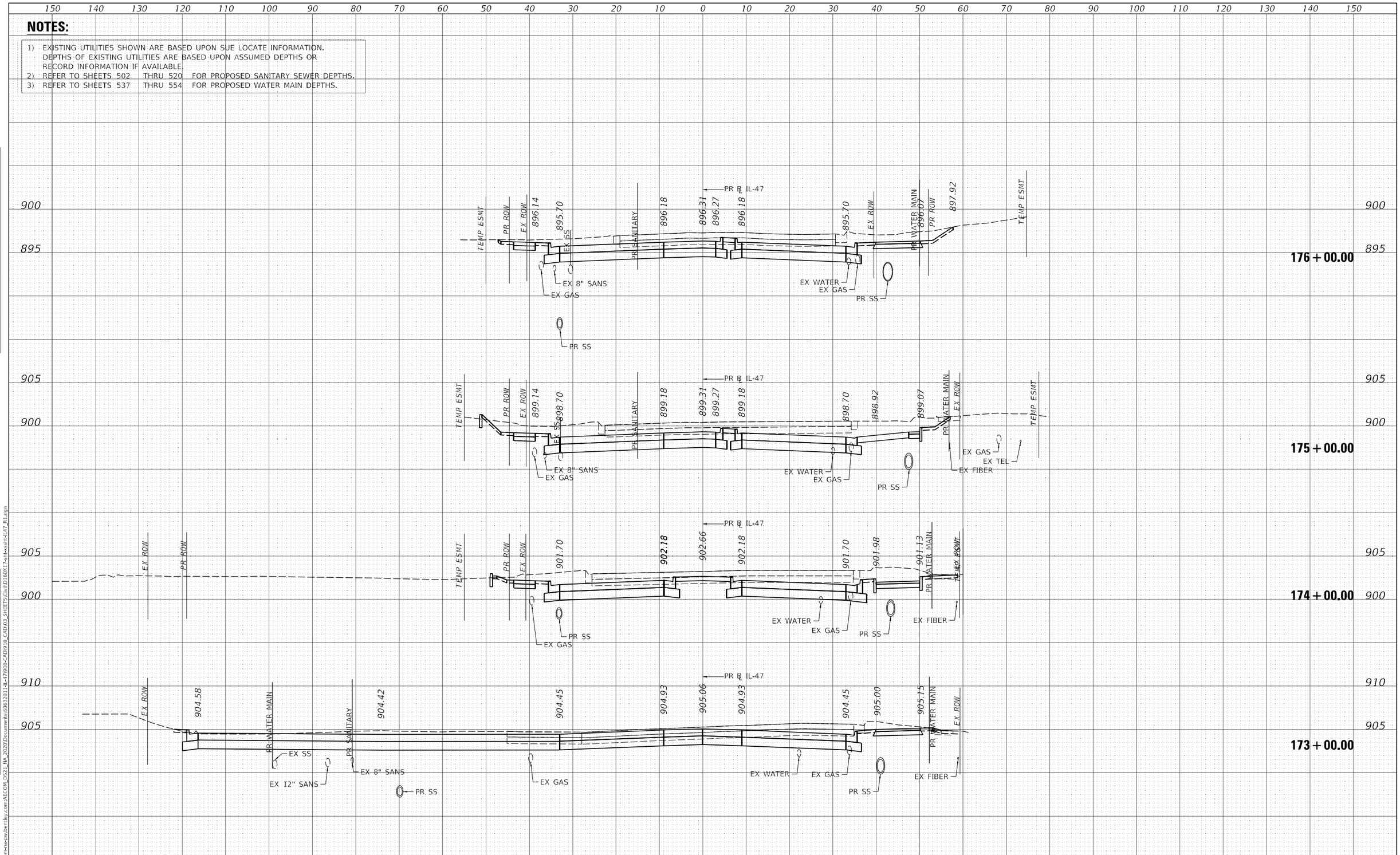

AECOM 303 EAST WACKER DRIVE, SUITE 1400 CHICAGO, IL 60601-5276 PHONE: (312) 373-7700 FAX: (312) 373-6800	USER NAME = andrew.aceron	DESIGNED -	REVISED -
		DRAWN -	REVISED -
	PLOT SCALE = 20.0000 ' / in.	CHECKED -	REVISED -
	PLOT DATE = 2/10/2025	DATE -	REVISED -

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

PROPOSED CROSS SECTIONS
IL ROUTE 47

SCALE: 1"=10'H, 1"=5'V | SHEET OF SHEETS | STA. 173+00.00 TO STA. 176+00.00

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
326	2024-1052-N,C,SW,FL	MCHENRY	941	892

CONTRACT NO. 62X94

ILLINOIS | FED. AID PROJECT

MODEL: Default
FILE NAME: pw:\\aecom-na-pw.bentley.com:AECOM_DS21_NA_2020\Documents\60632011-IL-479900-CAD\910_CAD\03_SHEETS\Civil\D160X17-sht-xsIl-Il47_R1.dgn

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		

NOTES:

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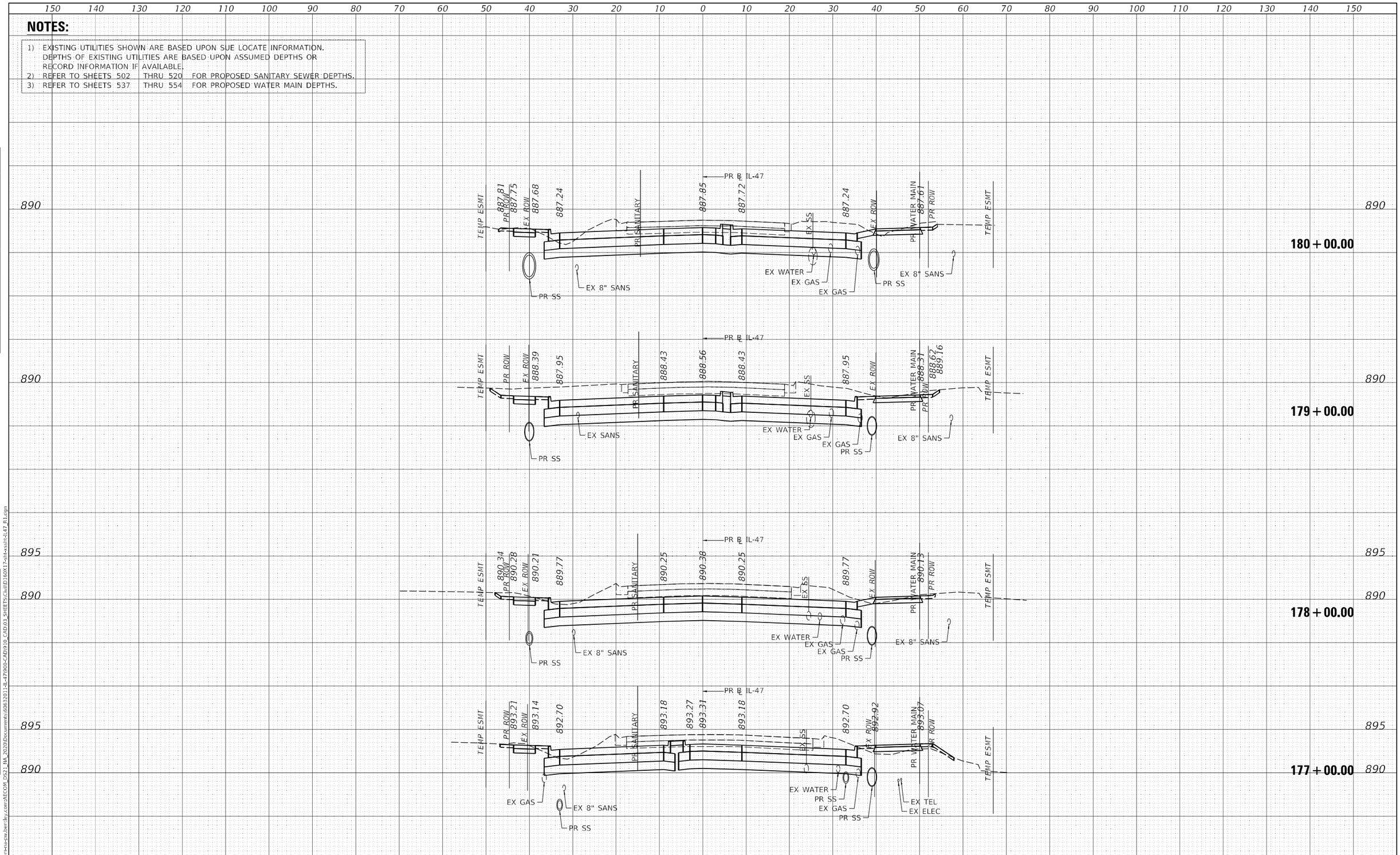

FINAL SURVEY	BY:	DATE
SURVEYED		
PLOTTED		
TEMPLATE		
AREAS		
AREAS CHECKED		
NOTE BOOK NO.		

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

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PHONE: (312) 373-7700 FAX: (312) 373-6800

USER NAME = andrew.aceron	DESIGNED -	REVISED -	
	DRAWN -	REVISED -	
PLOT SCALE = 20.0000 ' / in.	CHECKED -	REVISED -	
PLOT DATE = 2/10/2025	DATE -	REVISED -	

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

PROPOSED CROSS SECTIONS
IL ROUTE 47

SCALE: 1"=10'H, 1"=5'V | SHEET OF SHEETS | STA. 177+00.00 TO STA. 180+00.00

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
326	2024-1052-N,C,SW,FL	MCHENRY	941	893

CONTRACT NO. 62X94

ILLINOIS | FED. AID PROJECT

NOTES:

1) EXISTING UTILITIES SHOWN ARE BASED UPON SUE LOCATE INFORMATION. DEPTHS OF EXISTING UTILITIES ARE BASED UPON ASSUMED DEPTHS OR RECORD INFORMATION IF AVAILABLE.
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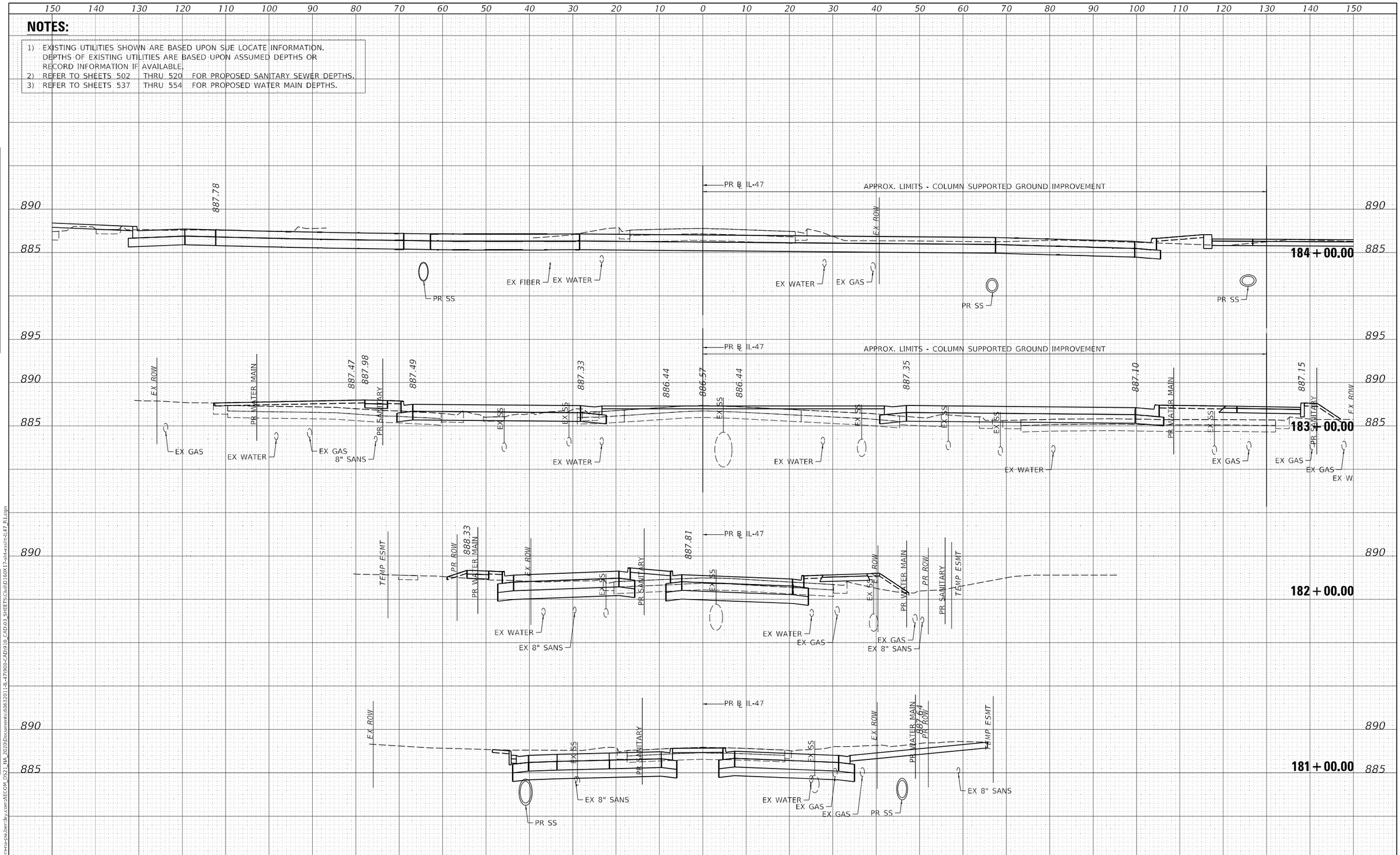

AECOM 303 EAST WACKER DRIVE, SUITE 1400 CHICAGO, IL 60601-5276 PHONE: (312) 373-7700 FAX: (312) 373-6800	USER NAME = andrew.aceron	DESIGNED -	REVISED -
		DRAWN -	REVISED -
	PLOT SCALE = 20.0000 ' / in.	CHECKED -	REVISED -
	PLOT DATE = 2/10/2025	DATE -	REVISED -

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

PROPOSED CROSS SECTIONS
IL ROUTE 47

SCALE: 1"=10'H, 1"=5'V | SHEET OF SHEETS | STA. 181+00.00 TO STA. 184+00.00

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
326	2024-1052-N,C,SW,FL	MCHENRY	941	894

CONTRACT NO. 62X94

ILLINOIS | FED. AID PROJECT

MODEL: Default
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NOTES:

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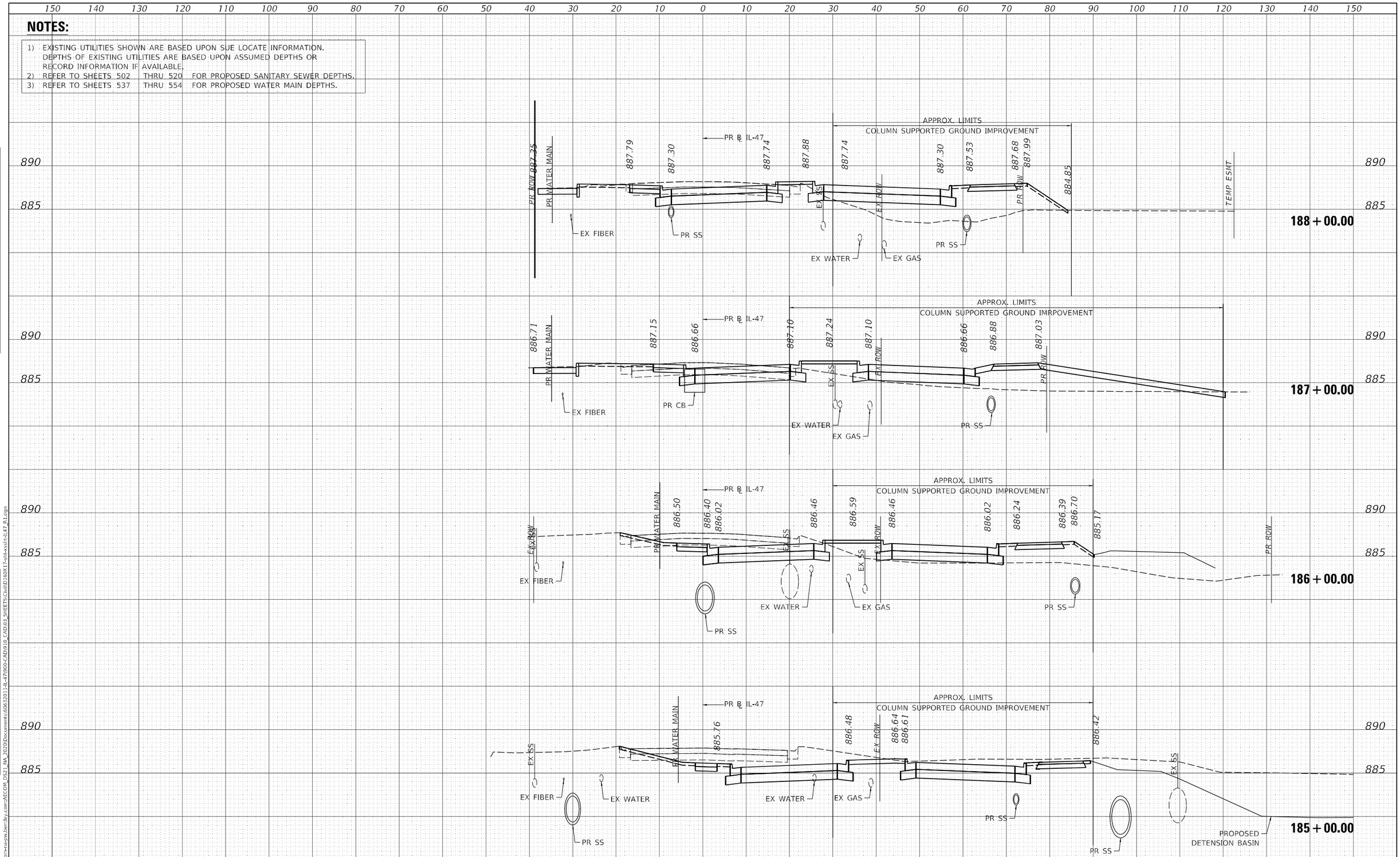
2) REFER TO SHEETS 502 THRU 520 FOR PROPOSED SANITARY SEWER DEPTHS.
3) REFER TO SHEETS 537 THRU 554 FOR PROPOSED WATER MAIN DEPTHS.



AECOM 303 EAST WACKER DRIVE, SUITE 1400 CHICAGO, IL 60601-5276 PHONE: (312) 373-7700 FAX: (312) 373-6800	USER NAME = andrew.aceron	DESIGNED -	REVISED -
		DRAWN -	REVISED -
	PLOT SCALE = 20.0000 ' / in.	CHECKED -	REVISED -
	PLOT DATE = 2/10/2025	DATE -	REVISED -

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

PROPOSED CROSS SECTIONS
IL ROUTE 47

SCALE: 1"=10'H, 1"=5'V | SHEET OF SHEETS | STA. 185+00.00 TO STA. 188+00.00

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
326	2024-1052-N,C,SW,FL	MCHENRY	941	895

CONTRACT NO. 62X94

ILLINOIS | FED. AID PROJECT

MODEL: Default
FILE NAME: pw:\\aecom-us-pw.bentley.com:AECOM_DS21_NA_2020\Documents\60632013-IL-47900-CAD\910_CAD\03_SHEETS\Civil\D160X17-sht-xsIl-IL47_R1.dgn

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

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

NOTES:

1) EXISTING UTILITIES SHOWN ARE BASED UPON SUE LOCATE INFORMATION. DEPTHS OF EXISTING UTILITIES ARE BASED UPON ASSUMED DEPTHS OR RECORD INFORMATION IF AVAILABLE.
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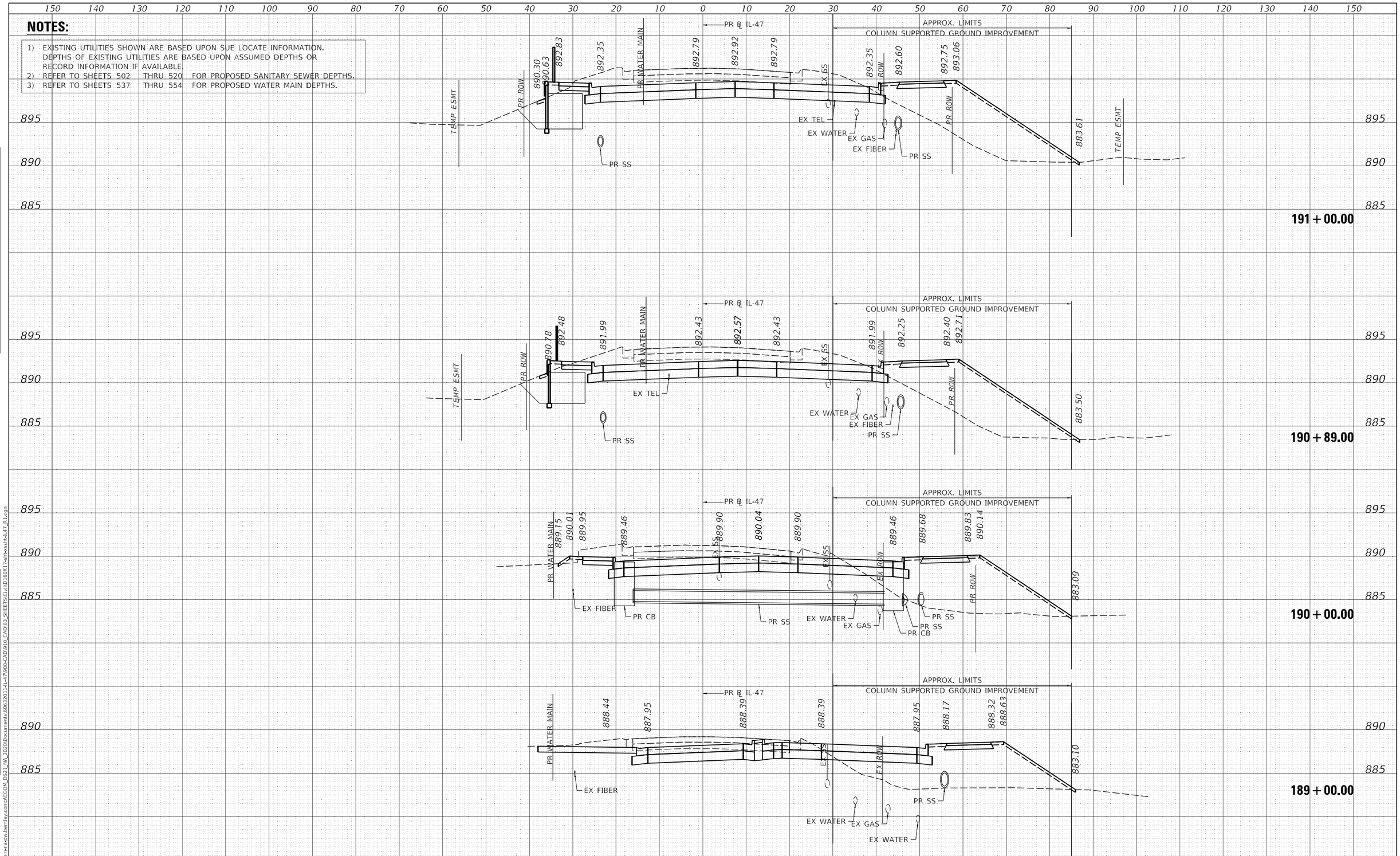
3) REFER TO SHEETS 537 THRU 554 FOR PROPOSED WATER MAIN DEPTHS.



AECOM 303 EAST WACKER DRIVE, SUITE 1400 CHICAGO, IL 60601-5276 PHONE: (312) 373-7700 FAX: (312) 373-6800	USER NAME = andrew.aceron	DESIGNED -	REVISED -	STATE OF ILLINOIS DEPARTMENT OF TRANSPORTATION	PROPOSED CROSS SECTIONS IL ROUTE 47
		DRAWN -	REVISED -		
	PLOT SCALE = 20.0000 ' / in.	CHECKED -	REVISED -		
	PLOT DATE = 2/10/2025	DATE -	REVISED -		SCALE:1"=10'H,1"=5'V SHEET OF SHEETS STA. 189+00.00 TO STA. 191+00.00

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
326	2024-1052-N,C,SW,FL	MCHENRY	941	896
		CONTRACT NO. 62X94		
		ILLINOIS	FED. AID PROJECT	

MODEL: Default
FILE NAME: pw:\\aecom-us-pw.bentley.com:AECOM_DS21_MA_2020\Documents\60632013-IL-47900-CAD\910_CAD\03_SHEETS\Civil\D160X17-sht-ssht-IL47_R1.dgn

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

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

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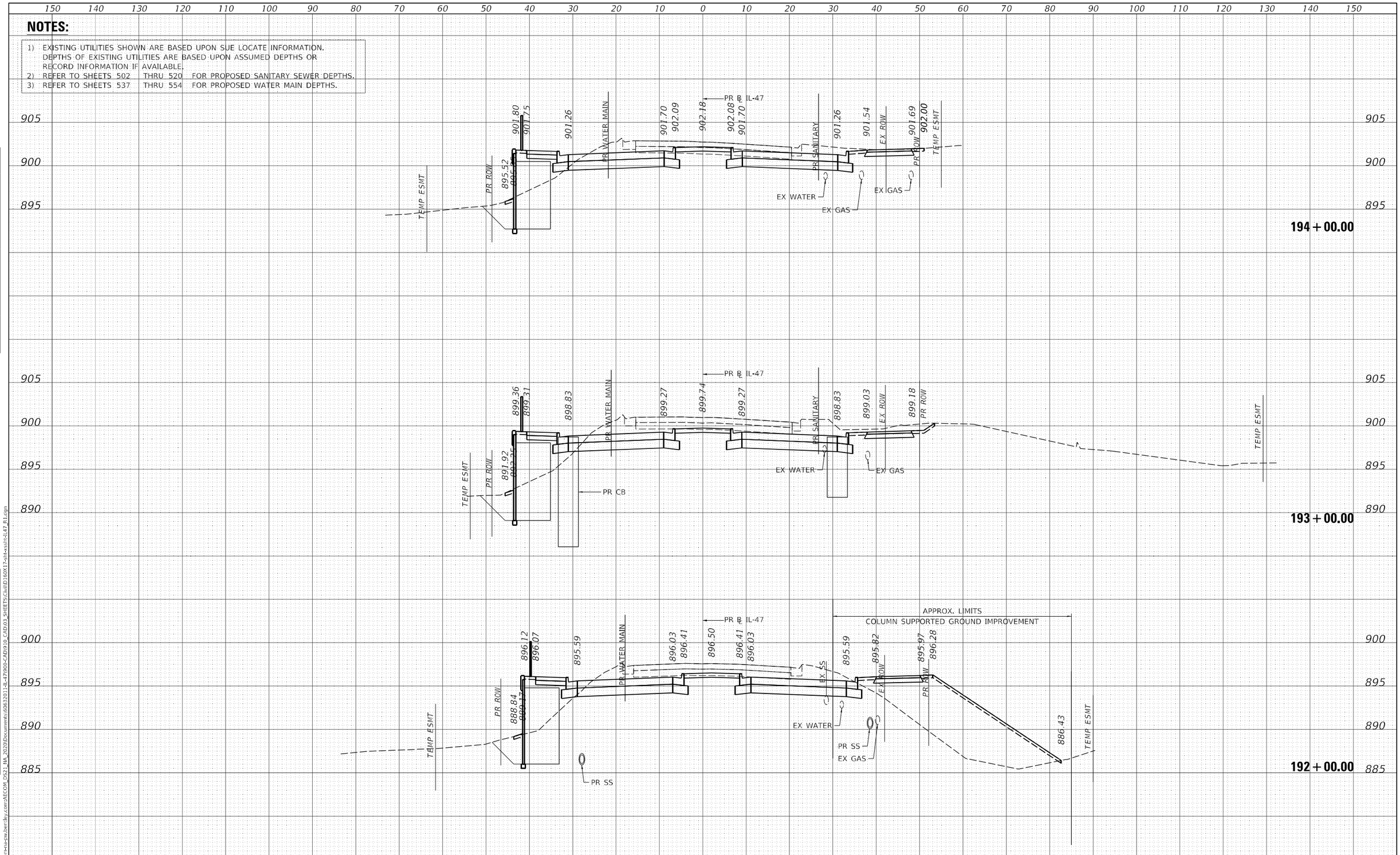

FINAL SURVEY		BY	DATE
NOTE BOOK	SURVEYED		
	PLOTTED		
	TEMPLATE		
	AREAS		
NO.	AREAS CHECKED		

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

MODEL: Default
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AECOM
303 EAST WACKER DRIVE, SUITE 1400
CHICAGO, IL 60601-5276
PHONE: (312) 373-7700 FAX: (312) 373-6800

USER NAME = andrew.aceron	DESIGNED -	REVISED -
	DRAWN -	REVISED -
PLOT SCALE = 20.0000 ' / in.	CHECKED -	REVISED -
PLOT DATE = 2/10/2025	DATE -	REVISED -

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

PROPOSED CROSS SECTIONS
IL ROUTE 47

SCALE:1"=10'H,1"=5'V | SHEET OF SHEETS | STA. 192+00.00 TO STA. 194+00.00

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
326	2024-1052-N,C,SW,FL	MCHENRY	941	897

CONTRACT NO. 62X94

ILLINOIS | FED. AID PROJECT

NOTES:

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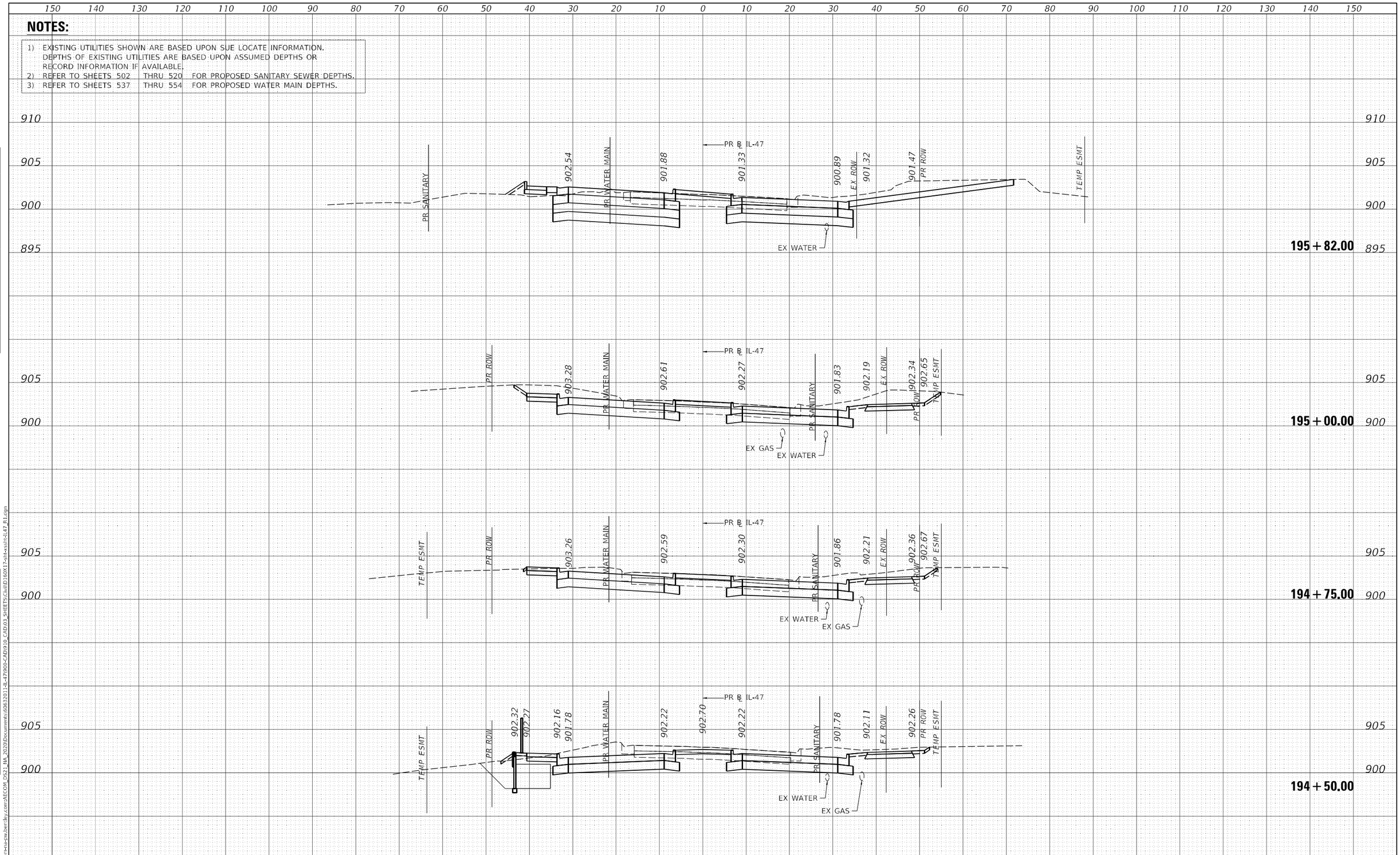

AECOM 303 EAST WACKER DRIVE, SUITE 1400 CHICAGO, IL 60601-5276 PHONE: (312) 373-7700 FAX: (312) 373-6800	USER NAME = andrew.aceron	DESIGNED -	REVISED -	STATE OF ILLINOIS DEPARTMENT OF TRANSPORTATION	PROPOSED CROSS SECTIONS IL ROUTE 47
		DRAWN -	REVISED -		
	PLOT SCALE = 20.0000 ' / in.	CHECKED -	REVISED -		
	PLOT DATE = 2/10/2025	DATE -	REVISED -		SCALE:1"=10"H,1"=5'V SHEET OF SHEETS STA. 194+50.00 TO STA. 195+82.00

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
326	2024-1052-N,C,SW,FL	MCHENRY	941	898
		CONTRACT NO. 62X94		
		ILLINOIS	FED. AID PROJECT	

MODEL: Default
FILE NAME: pw:\\aecom-us-pw.bentley.com:AECOM_DS21_NA_2020\Documents\60632013-IL-47900-CAD\910_CAD\03_SHEETS\Civil\D160X17-sht-xsIl-IL47_R1.dgn

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		

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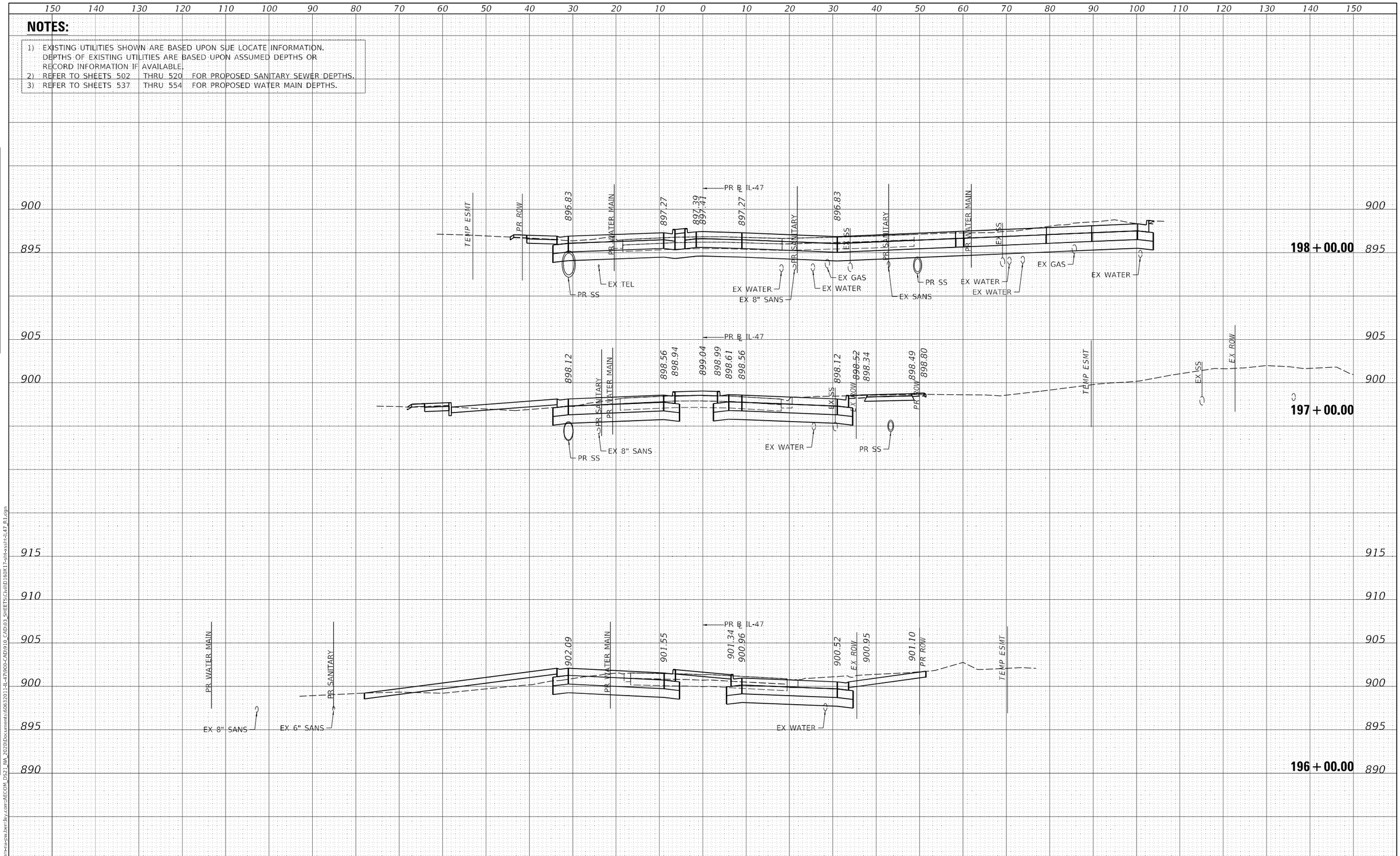

FINAL SURVEY	BY	DATE
SURVEYED		
PLOTTED		
TEMPLATE		
AREAS		
AREAS CHECKED		
NOTE BOOK NO.		

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

MODEL: Default
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AECOM
303 EAST WACKER DRIVE, SUITE 1400
CHICAGO, IL 60601-5276
PHONE: (312) 373-7700 FAX: (312) 373-6800

USER NAME = andrew.aceron	DESIGNED -	REVISED -	
	DRAWN -	REVISED -	
PLOT SCALE = 20.0000 ' / in.	CHECKED -	REVISED -	
PLOT DATE = 2/10/2025	DATE -	REVISED -	

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

PROPOSED CROSS SECTIONS
IL ROUTE 47

SCALE: 1"=10'H, 1"=5'V | SHEET OF SHEETS | STA. 196+00.00 TO STA. 198+00.00

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
326	2024-1052-N,C,SW,FL	MCHENRY	941	899
		CONTRACT NO. 62X94		
		ILLINOIS	FED. AID PROJECT	

NOTES:

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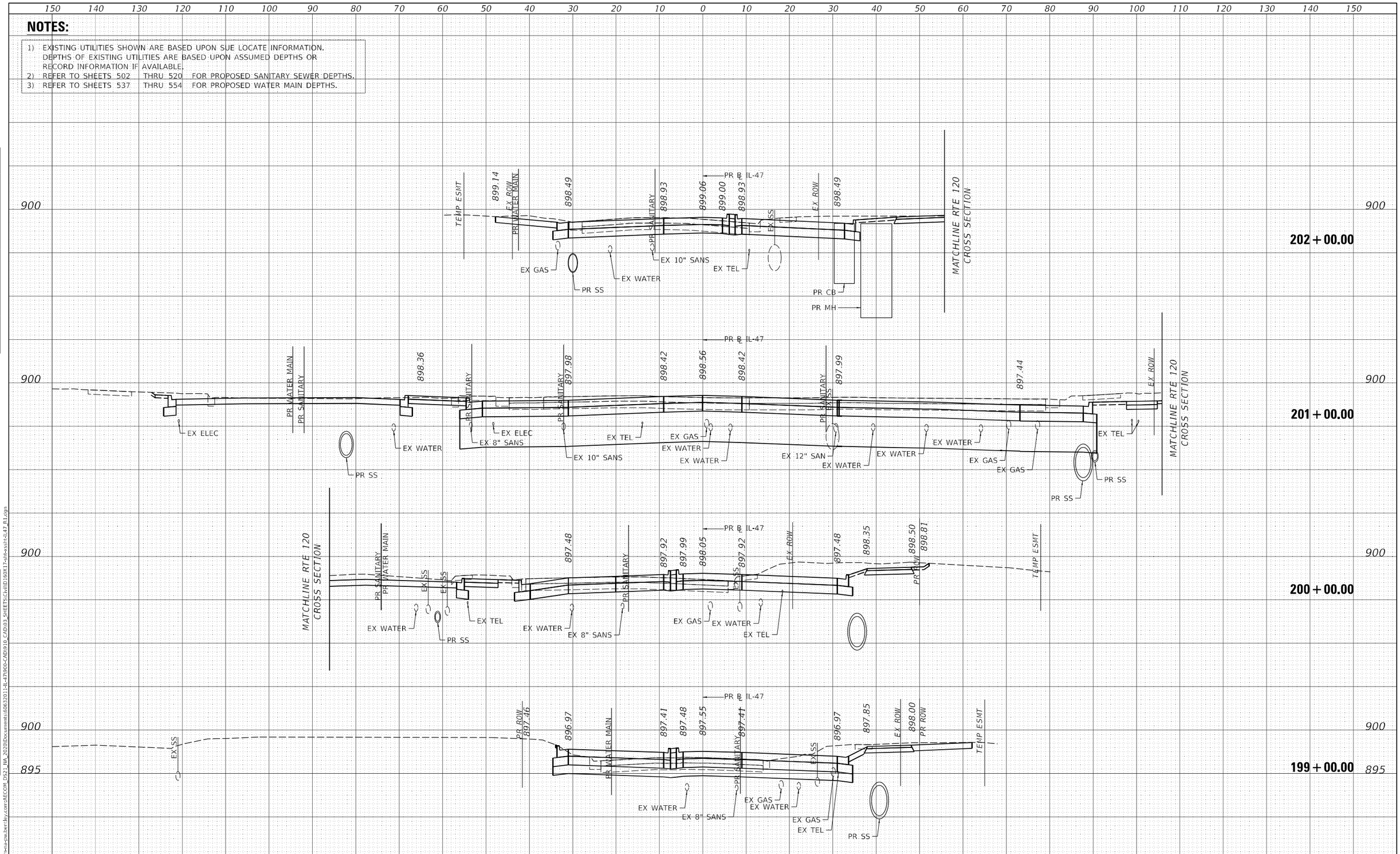

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PLOT DATE = 2/10/2025	DATE -	REVISED -	

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STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

PROPOSED CROSS SECTIONS
IL ROUTE 47

SCALE: 1"=10'H, 1"=5'V | SHEET OF SHEETS | STA. 199+00.00 TO STA. 202+00.00

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
326	2024-1052-N,C,SW,FL	MCHENRY	941	900

CONTRACT NO. 62X94

ILLINOIS | FED. AID PROJECT

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

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