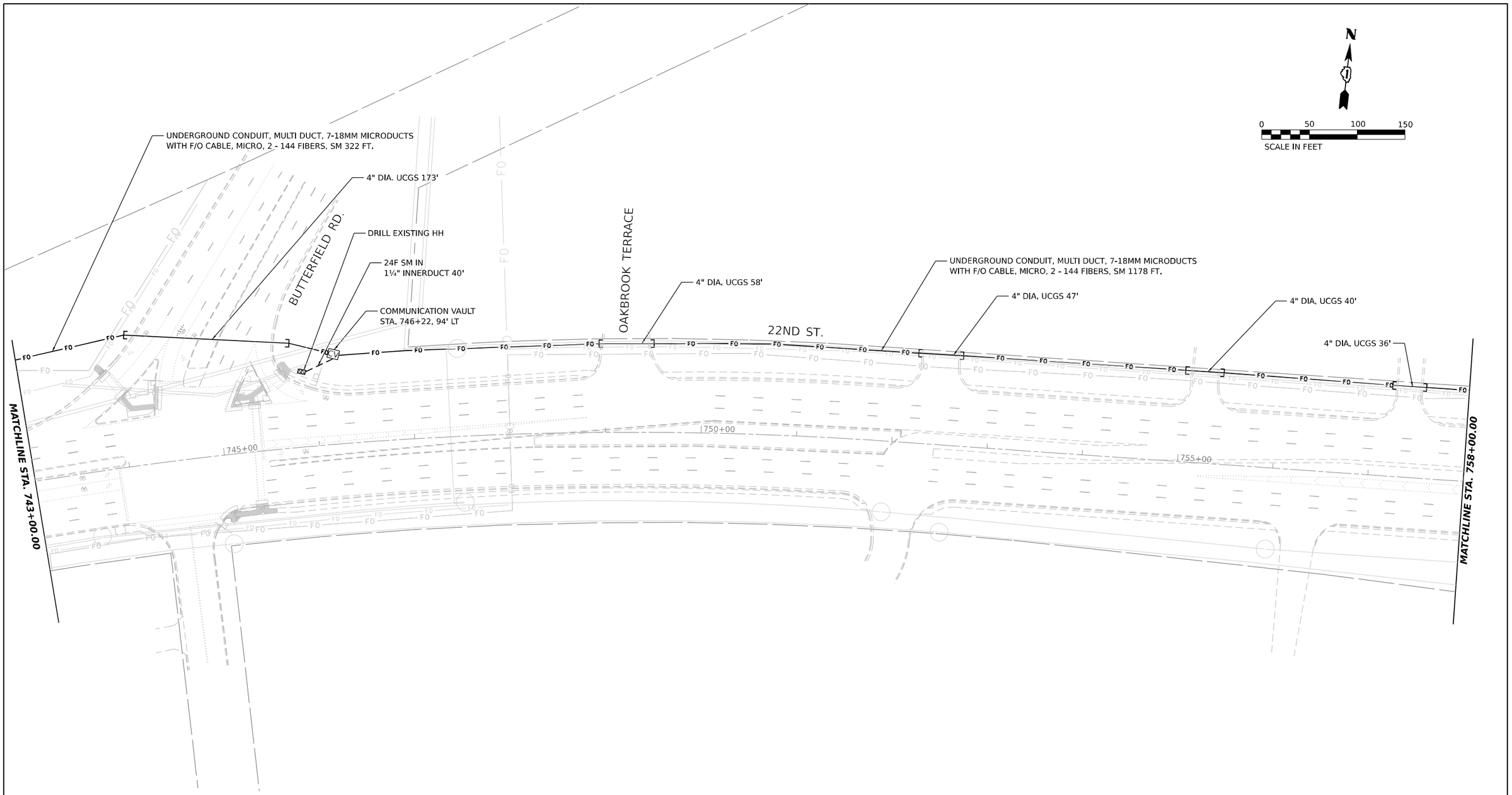


NOTE:

1. THE UNDERGROUND CONDUIT WITH FIBER OPTIC CABLE SHALL BE INSTALLED AS CLOSE TO RIGHT OF WAY AS POSSIBLE WITHOUT BEING INSTALLED IN THE DITCH. THE UNDERGROUND CONDUIT IS SHOWN AVOIDING VISIBLE OBSTACLES.
2. FIBER OPTIC CABLE SLACK SHALL BE 100 FT. FOR EACH CABLE AT EACH SPLICE LOCATION, ABOVE OR BELOW GROUND.

ITS–43

MODEL: $MODELNAME$
FILE NAME: D162N32-sht-ITS.dgn

AMES Engineering, Inc.
CONSULTING ENGINEERS
6330 Belmont Road, Suite 4B
Downers Grove, IL 60516

USER NAME = shassan	DESIGNED - BL	REVISED -	
	DRAWN - MD	REVISED -	
PLOT SCALE = $SCALE$	CHECKED - MH	REVISED -	
PLOT DATE = 2/23/2024	DATE - 9/15/22	REVISED -	

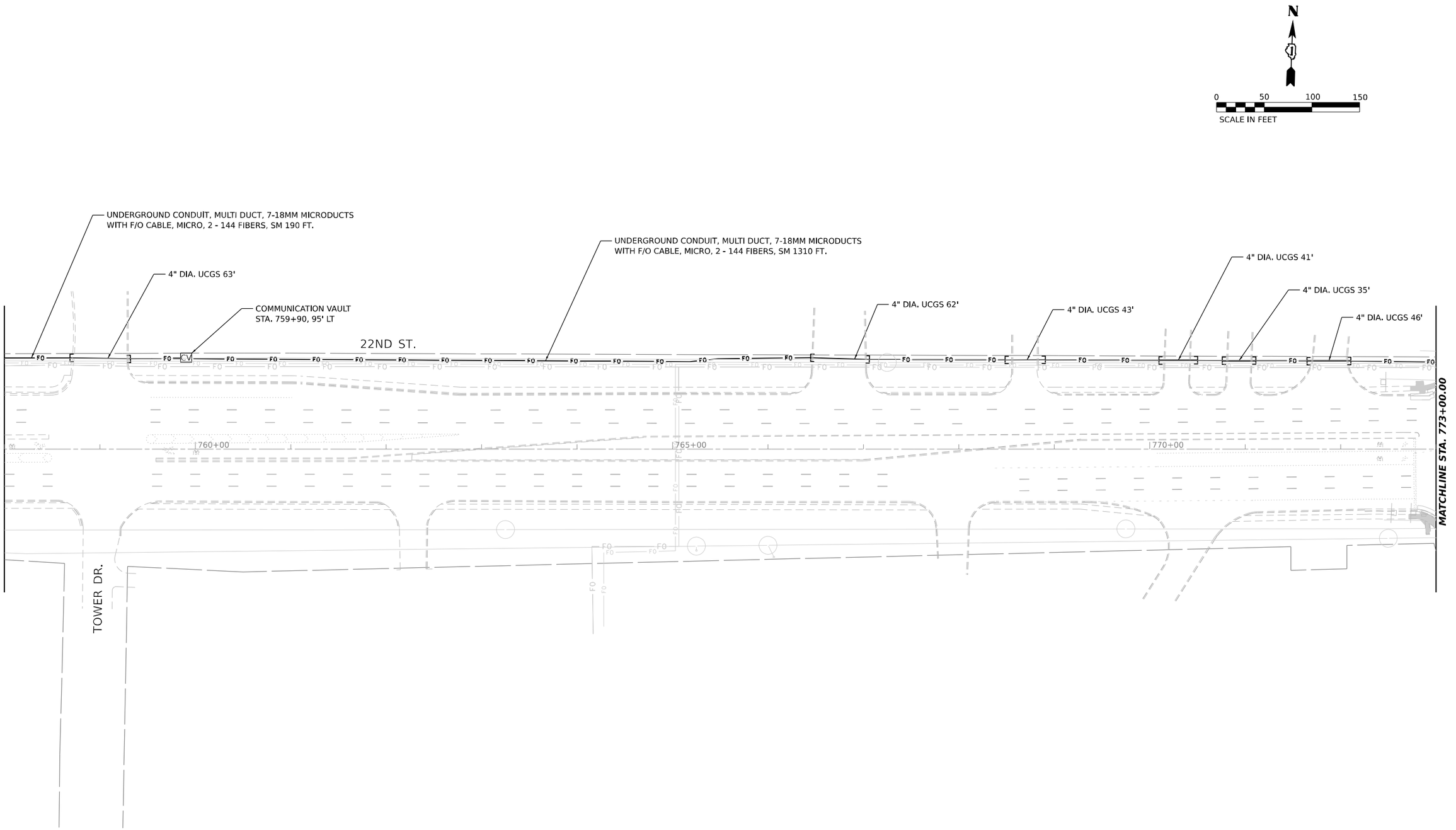
STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

PROPOSED FIBER ROUTE PLANS
IL ROUTE 56

SCALE: 1"=50' | SHEET 43 OF 52 SHEETS | STA. 743+00 TO STA. 758+000

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
365	2020-265-SUR, SW & TS	DUPAGE/COOK	462	401
		CONTRACT NO. 62N32		
		ILLINOIS	FED. AID PROJECT	

Long Section Number



NOTE:

1. THE UNDERGROUND CONDUIT WITH FIBER OPTIC CABLE SHALL BE INSTALLED AS CLOSE TO RIGHT OF WAY AS POSSIBLE WITHOUT BEING INSTALLED IN THE DITCH. THE UNDERGROUND CONDUIT IS SHOWN AVOIDING VISIBLE OBSTACLES.
2. FIBER OPTIC CABLE SLACK SHALL BE 50 FEET FOR EACH CABLE AT ACCESS POINTS, ABOVE OR BELOW GROUND, WHERE SPLICING IS NOT INVOLVED.

ITS–44

MODEL: \$MODELNAME\$
FILE NAME: D162N32-sht-ITS.dgn

AMES Engineering, Inc.
CONSULTING ENGINEERS
6330 Belmont Road, Suite 4B
Downers Grove, IL 60516

USER NAME = shassan	DESIGNED - BL	REVISED -			
	DRAWN - MD	REVISED -			
PLOT SCALE = \$SCALE\$	CHECKED - MH	REVISED -			
PLOT DATE = 2/23/2024	DATE - 9/15/22	REVISED -			

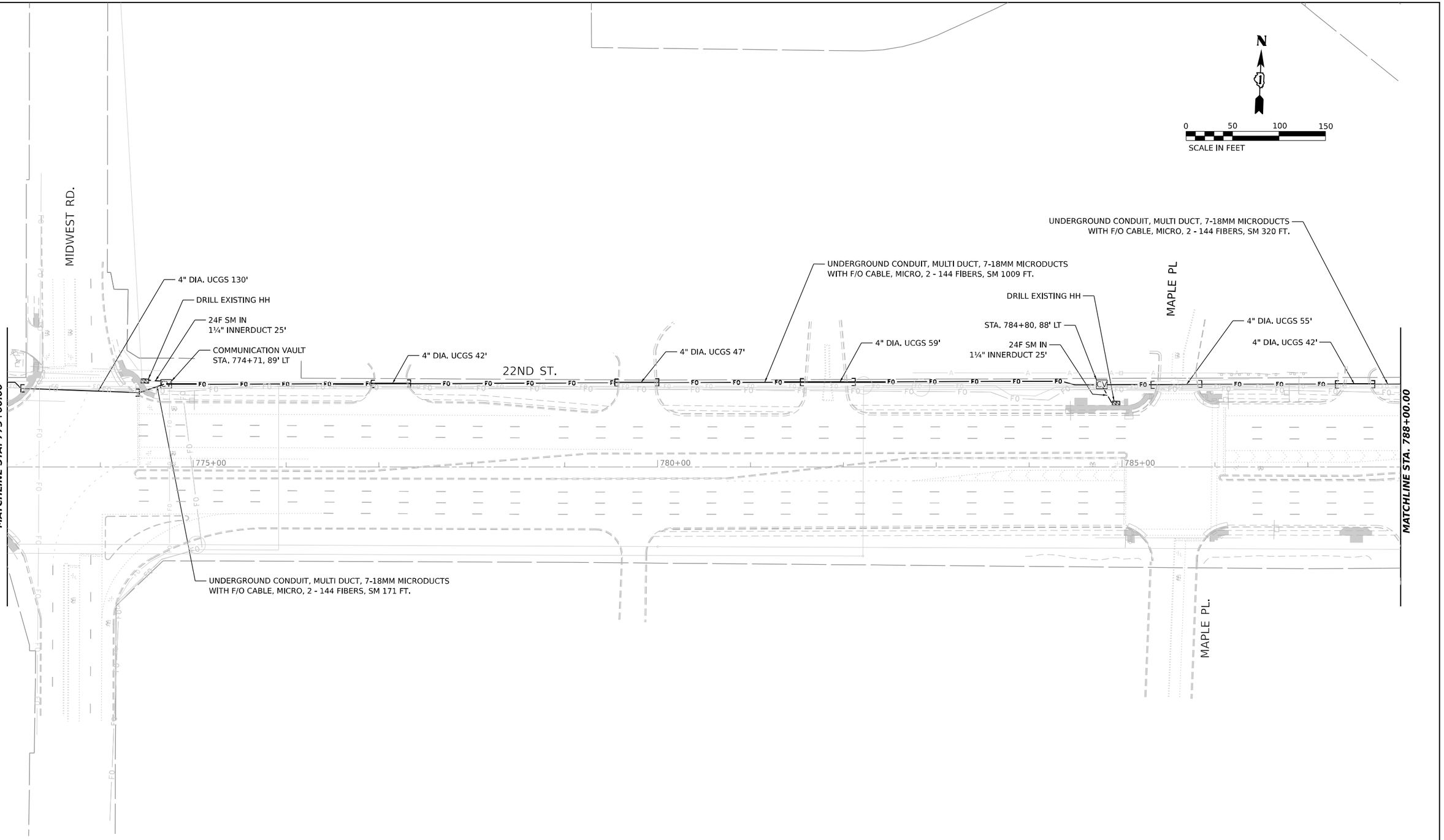
STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

PROPOSED FIBER ROUTE PLANS
IL ROUTE 56

SCALE: 1"=50' | SHEET 44 OF 52 SHEETS | STA. 758+00 TO STA. 773+000

Long Section Number

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
365	2020-265-SUR, SW & TS	DUPAGE/COOK	462	402
		CONTRACT NO. 62N32		
		ILLINOIS	FED. AID PROJECT	



NOTE:

1. THE UNDERGROUND CONDUIT WITH FIBER OPTIC CABLE SHALL BE INSTALLED AS CLOSE TO RIGHT OF WAY AS POSSIBLE WITHOUT BEING INSTALLED IN THE DITCH. THE UNDERGROUND CONDUIT IS SHOWN AVOIDING VISIBLE OBSTACLES.
2. FIBER OPTIC CABLE SLACK SHALL BE 100 FT. FOR EACH CABLE AT EACH SPLICE LOCATION, ABOVE OR BELOW GROUND.

ITS–45

MODEL: $MODELNAME$
FILE NAME: D162N32-sht-ITS.dgn

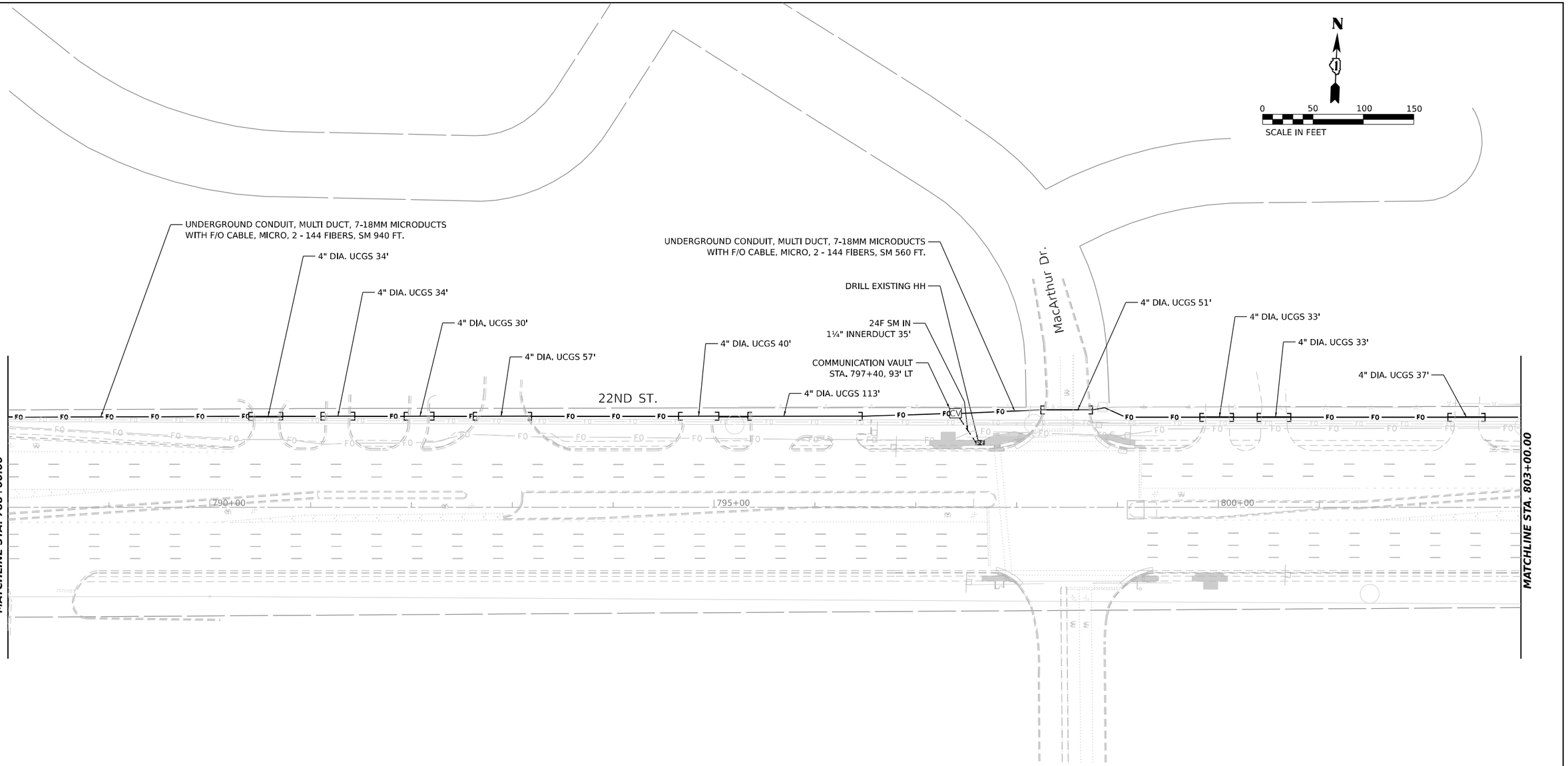
AMES Engineering, Inc.
CONSULTING ENGINEERS
6330 Belmont Road, Suite 4B
Downers Grove, IL 60516

USER NAME = shassan	DESIGNED - BL	REVISED -	STATE OF ILLINOIS DEPARTMENT OF TRANSPORTATION	PROPOSED FIBER ROUTE PLANS IL ROUTE 56
	DRAWN - MD	REVISED -		
PLOT SCALE = $SCALE$	CHECKED - MH	REVISED -		
PLOT DATE = 2/23/2024	DATE - 9/15/22	REVISED -		

SCALE: 1"=50' | SHEET 45 OF 52 SHEETS | STA. 773+00 TO STA. 788+000

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
365	2020-265-SUR, SW & TS	DUPAGE/COOK	462	403
		CONTRACT NO. 62N32		
	ILLINOIS	FED. AID PROJECT		

Long Section Number



NOTE:

1. THE UNDERGROUND CONDUIT WITH FIBER OPTIC CABLE SHALL BE INSTALLED AS CLOSE TO RIGHT OF WAY AS POSSIBLE WITHOUT BEING INSTALLED IN THE DITCH. THE UNDERGROUND CONDUIT IS SHOWN AVOIDING VISIBLE OBSTACLES.
2. FIBER OPTIC CABLE SLACK SHALL BE 100 FT. FOR EACH CABLE AT EACH SPLICE LOCATION, ABOVE OR BELOW GROUND.

ITS–46

MODEL: $MODELNAME$
FILE NAME: D162N32-sht-ITS.dgn

AMES Engineering, Inc.
CONSULTING ENGINEERS
6330 Belmont Road, Suite 4B
Downers Grove, IL 60516

USER NAME = shassan		DESIGNED -	BL	REVISED -	
		DRAWN -	MD	REVISED -	
PLOT SCALE = $SCALE$		CHECKED -	MH	REVISED -	
PLOT DATE = 2/23/2024		DATE -	9/15/22	REVISED -	

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

PROPOSED FIBER ROUTE PLANS
IL ROUTE 56

SCALE: 1"=50' | SHEET 46 OF 52 SHEETS | STA. 788+00 TO STA. 803+000

Long Section Number

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
365	2020-265-SUR, SW & TS	DUPAGE/COOK	462	404
		CONTRACT NO. 62N32		
	ILLINOIS	FED. AID PROJECT		

N

0 50 100 150

SCALE IN FEET

PARKVIEW DR.

KINGERY HWY

22ND ST.

4" DIA. UCGS 71'

UNDERGROUND CONDUIT, MULTI DUCT, 7-18MM MICRODUCTS WITH F/O CABLE, MICRO, 2 - 144 FIBERS, SM 265 FT.

DRILL EXISTING HH

24F SM IN 1¼" INNERDUCT 45'

COMMUNICATION VAULT STA. 805+65, 93' LT

MATCHLINE STA. 803+00.00

805+00

810+00

815+00

MATCHLINE STA. 818+00.00

UNDERGROUND CONDUIT, MULTI DUCT, 7-18MM MICRODUCTS WITH F/O CABLE, MICRO, 2 - 144 FIBERS, SM 292 FT.

DRILL EXISTING HH

24F SM IN 1¼" INNERDUCT 20'

COMMUNICATION VAULT STA. 815+08, 91' LT

4" DIA. UCGS 141'

UNDERGROUND CONDUIT, MULTI DUCT, 7-18MM MICRODUCTS WITH F/O CABLE, MICRO, 2 - 144 FIBERS, SM 165 FT.

COMMUNICATION VAULT STA. 814+90, 98' RT

4" DIA. UCGS 128'

UNDERGROUND CONDUIT, MULTI DUCT, 7-18MM MICRODUCTS WITH F/O CABLE, MICRO, 2 - 144 FIBERS, SM 190 FT.

COMMUNICATION VAULT STA. 805+55, 90' RT

UNDERGROUND CONDUIT, MULTI DUCT, 7-18MM MICRODUCTS WITH F/O CABLE, MICRO, 2 - 144 FIBERS, SM 980 FT.

4" DIA. UCGS 177'

NOTE:

1. THE UNDERGROUND CONDUIT WITH FIBER OPTIC CABLE SHALL BE INSTALLED AS CLOSE TO RIGHT OF WAY AS POSSIBLE WITHOUT BEING INSTALLED IN THE DITCH. THE UNDERGROUND CONDUIT IS SHOWN AVOIDING VISIBLE OBSTACLES.
2. FIBER OPTIC CABLE SLACK SHALL BE 100 FT. FOR EACH CABLE AT EACH SPLICE LOCATION, ABOVE OR BELOW GROUND.
3. FIBER OPTIC CABLE SLACK SHALL BE 50 FEET FOR EACH CABLE AT ACCESS POINTS, ABOVE OR BELOW GROUND, WHERE SPLICING IS NOT INVOLVED.

ITS–47

MODEL: $MODELNAME$
FILE NAME: D162N32-shtITS.dgn

AMES Engineering, Inc.
CONSULTING ENGINEERS
6330 Belmont Road, Suite 4B
Downers Grove, IL 60516

USER NAME = shassan	DESIGNED - BL	REVISED -		
	DRAWN - MD	REVISED -		
PLOT SCALE = $SCALE$	CHECKED - MH	REVISED -		
PLOT DATE = 2/23/2024	DATE - 9/15/22	REVISED -		

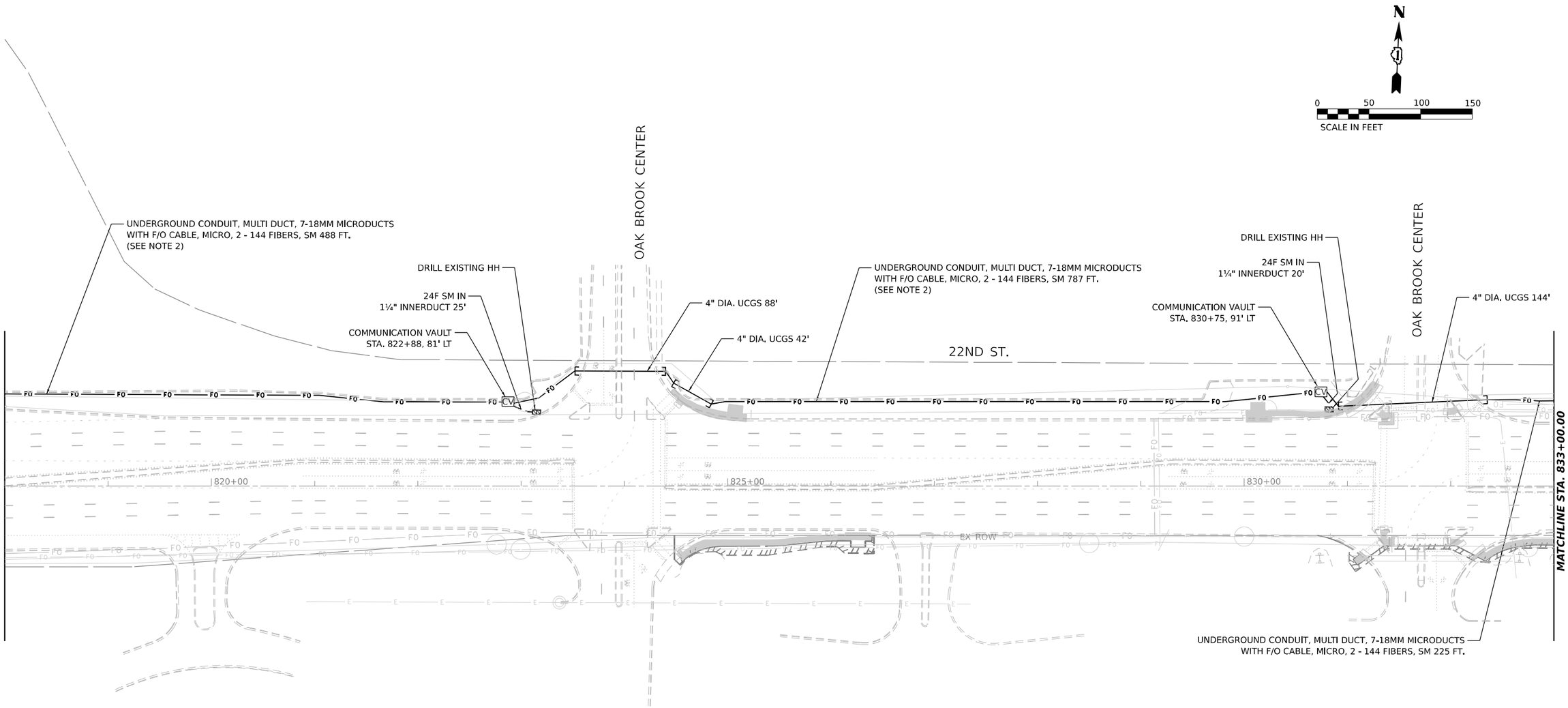
STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

PROPOSED FIBER ROUTE PLANS
IL ROUTE 56

SCALE: 1"=50' | SHEET 47 OF 52 SHEETS | STA. 803+00 TO STA. 818+000

Long Section Number

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
365	2020-265-SUR, SW & TS	DUPAGE/COOK	462	405
		CONTRACT NO. 62N32		
		ILLINOIS	FED. AID PROJECT	



NOTE:

1. THE UNDERGROUND CONDUIT WITH FIBER OPTIC CABLE SHALL BE INSTALLED AS CLOSE TO RIGHT OF WAY AS POSSIBLE WITHOUT BEING INSTALLED IN THE DITCH. THE UNDERGROUND CONDUIT IS SHOWN AVOIDING VISIBLE OBSTACLES.
2. UNDERGROUND CONDUIT WITH FIBER OPTIC CABLE SHALL BE INSTALLED CLOSE TO EDGE OF PARKING LOT.
3. FIBER OPTIC CABLE SLACK SHALL BE 100 FT. FOR EACH CABLE AT EACH SPLICE LOCATION, ABOVE OR BELOW GROUND.

ITS–48

MODEL: $MODELNAME$
FILE NAME: D162N32-SH-ITS.dgn

AMES Engineering, Inc.
CONSULTING ENGINEERS
6330 Belmont Road, Suite 4B
Downers Grove, IL 60516

USER NAME = shassan	DESIGNED - BL	REVISED -	
	DRAWN - MD	REVISED -	
PLOT SCALE = $SCALE$	CHECKED - MH	REVISED -	
PLOT DATE = 2/23/2024	DATE - 9/15/22	REVISED -	

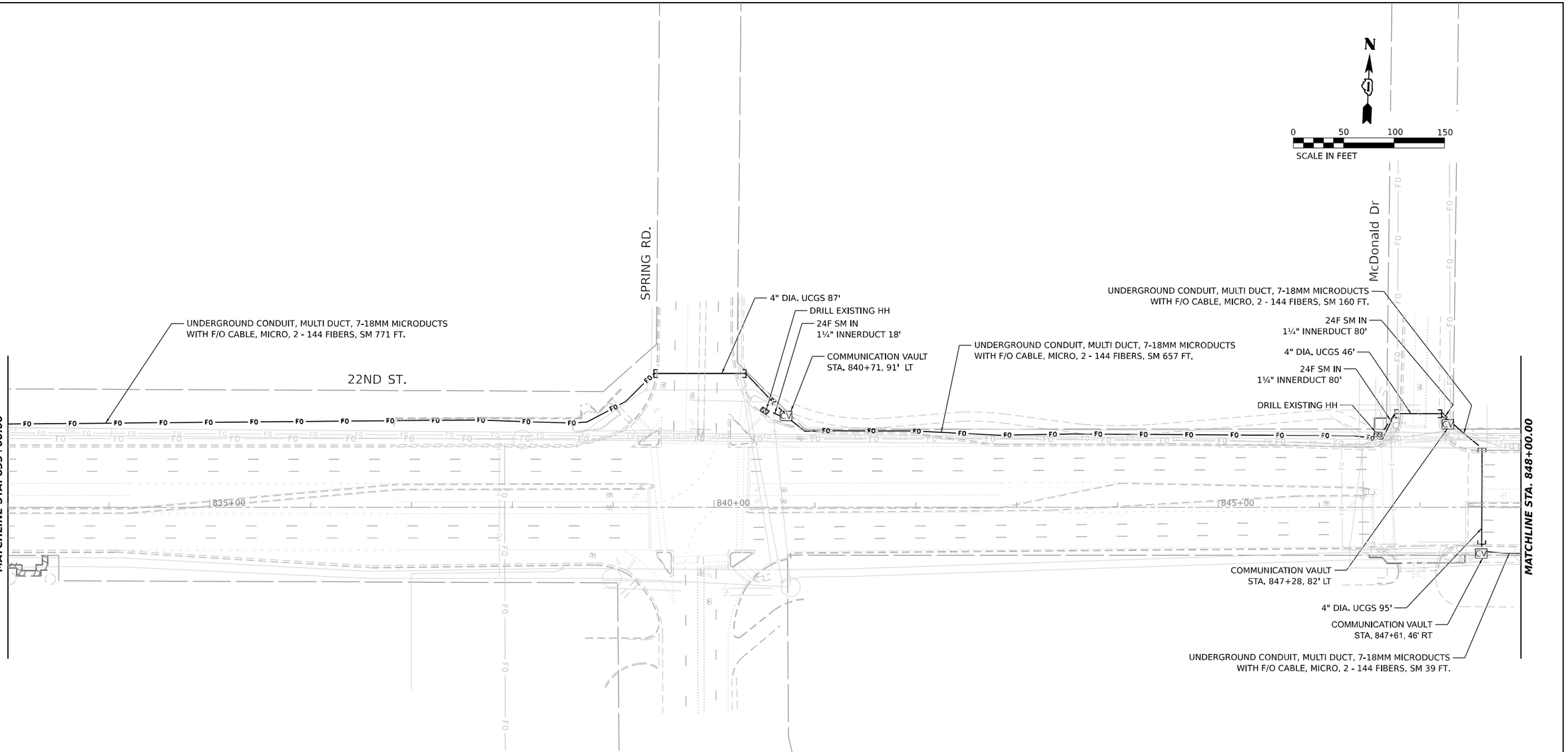
STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

PROPOSED FIBER ROUTE PLANS
IL ROUTE 56

SCALE: 1"=50' | SHEET 48 OF 52 SHEETS | STA. 818+00 TO STA. 833+000

Long Section Number

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
365	2020-265-SUR, SW & TS	DUPAGE/COOK	462	406
		CONTRACT NO. 62N32		
	ILLINOIS	FED. AID PROJECT		



NOTE:

1. THE UNDERGROUND CONDUIT WITH FIBER OPTIC CABLE SHALL BE INSTALLED AS CLOSE TO RIGHT OF WAY AS POSSIBLE WITHOUT BEING INSTALLED IN THE DITCH. THE UNDERGROUND CONDUIT IS SHOWN AVOIDING VISIBLE OBSTACLES.
2. FIBER OPTIC CABLE SLACK SHALL BE 100 FT. FOR EACH CABLE AT EACH SPLICE LOCATION, ABOVE OR BELOW GROUND.
3. FIBER OPTIC CABLE SLACK SHALL BE 50 FEET FOR EACH CABLE AT ACCESS POINTS, ABOVE OR BELOW GROUND, WHERE SPLICING IS NOT INVOLVED.

ITS–49

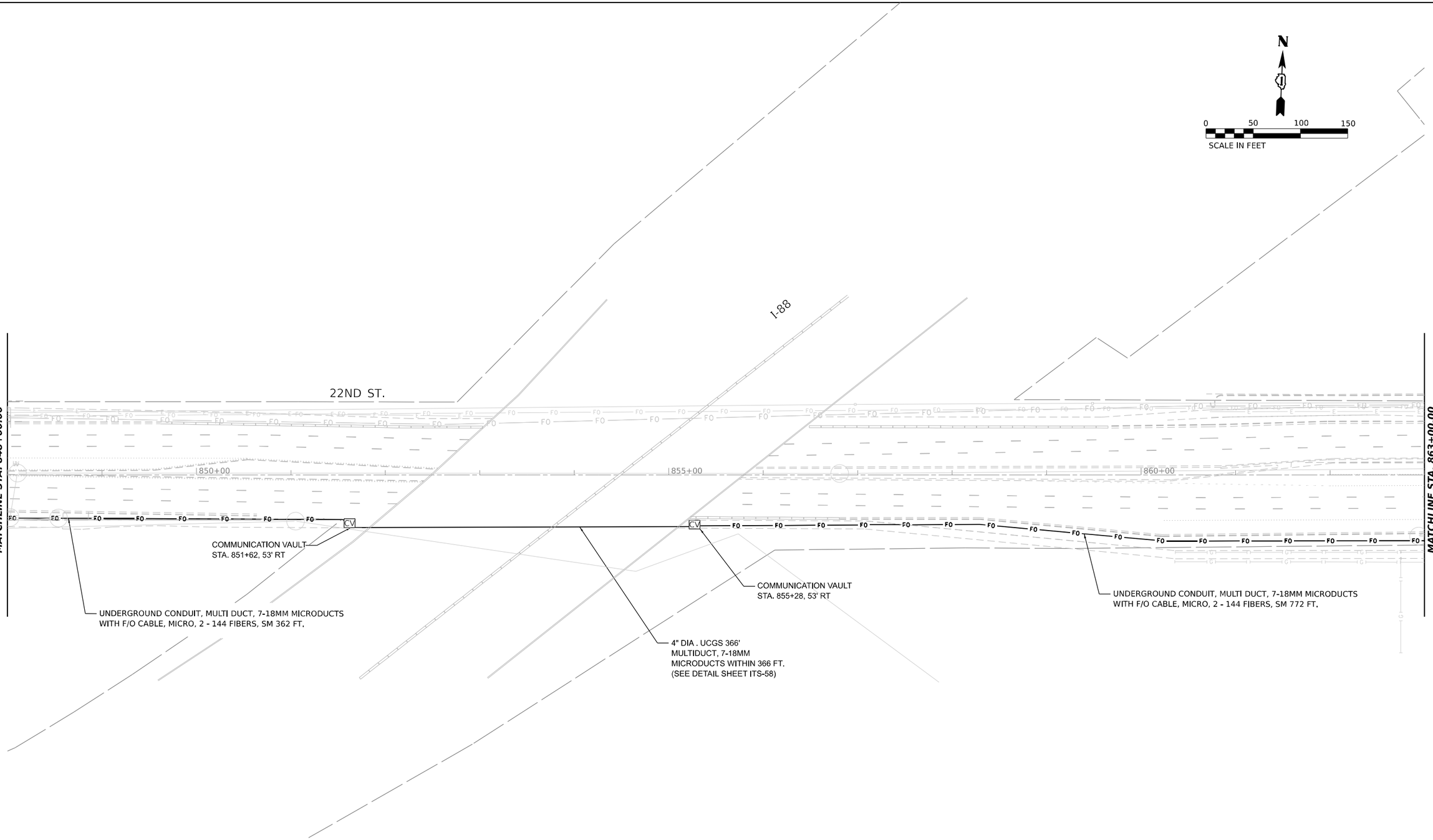
MODEL: $MODELNAME$
FILE NAME: D162N32-sht-ITS.dgn

AMES Engineering, Inc.
CONSULTING ENGINEERS
6330 Belmont Road, Suite 4B
Downers Grove, IL 60516

USER NAME = shassan	DESIGNED - BL	REVISED -	STATE OF ILLINOIS DEPARTMENT OF TRANSPORTATION	PROPOSED FIBER ROUTE PLANS IL ROUTE 56	
	DRAWN - MD	REVISED -			
PLOT SCALE = $SCALE$	CHECKED - MH	REVISED -			
PLOT DATE = 2/23/2024	DATE - 9/15/22	REVISED -		SCALE: 1"=50' SHEET 49 OF 52 SHEETS STA. 833+00 TO STA. 848+00	

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
365	2020-265-SUR, SW & TS	DUPAGE/COOK	462	407
		CONTRACT NO. 62N32		
	ILLINOIS	FED. AID PROJECT		

Long Section Number



NOTE:

1. THE UNDERGROUND CONDUIT WITH FIBER OPTIC CABLE SHALL BE INSTALLED AS CLOSE TO RIGHT OF WAY AS POSSIBLE WITHOUT BEING INSTALLED IN THE DITCH. THE UNDERGROUND CONDUIT IS SHOWN AVOIDING VISIBLE OBSTACLES.
2. FIBER OPTIC CABLE SLACK SHALL BE 50 FEET FOR EACH CABLE AT ACCESS POINTS, ABOVE OR BELOW GROUND, WHERE SPLICING IS NOT INVOLVED.

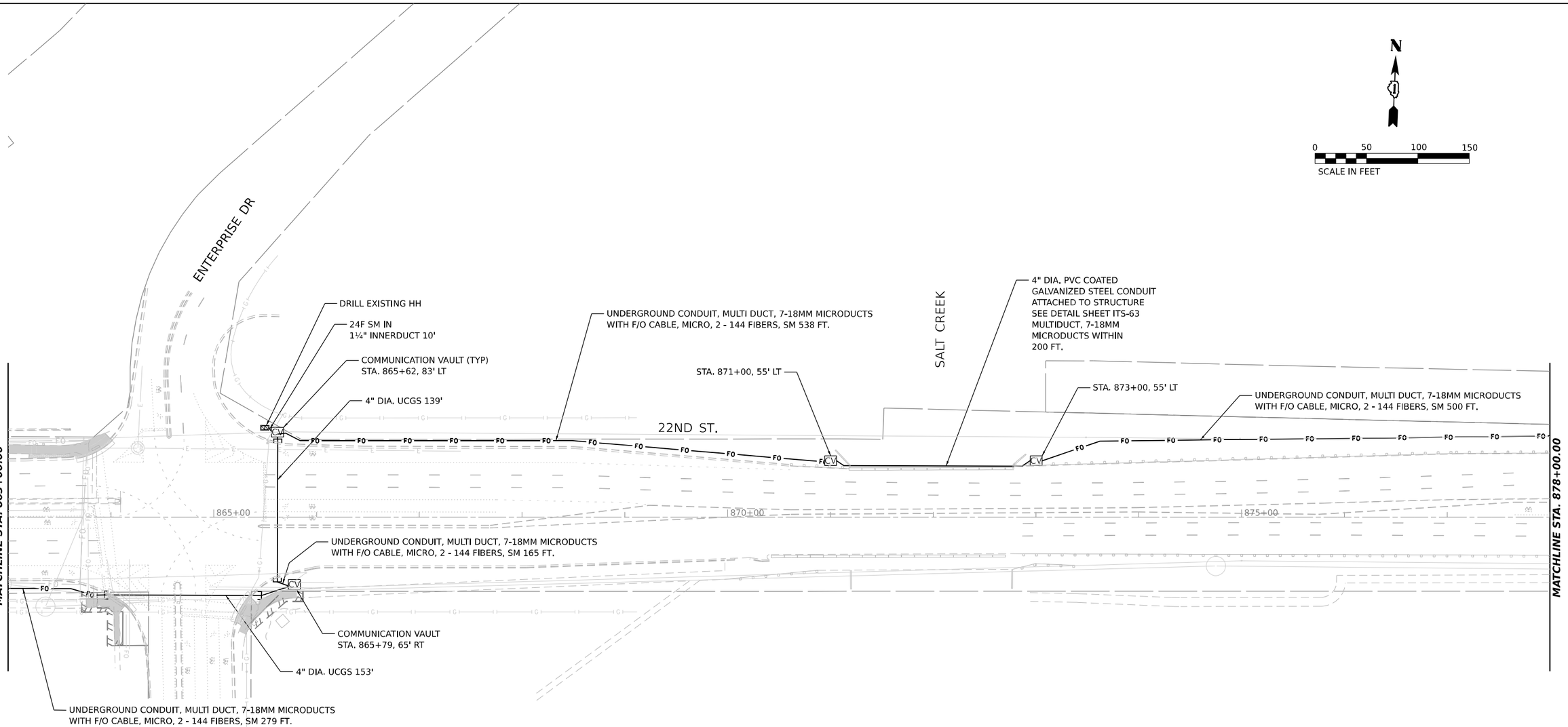
MODEL: $MODELNAME$
FILE NAME: D162N32-sht-ITS.dgn

AMES Engineering, Inc.
CONSULTING ENGINEERS
6330 Belmont Road, Suite 4B
Downers Grove, IL 60516

USER NAME = msomer	DESIGNED - BL	REVISED -	STATE OF ILLINOIS DEPARTMENT OF TRANSPORTATION	PROPOSED FIBER ROUTE PLANS IL ROUTE 56
	DRAWN - MD	REVISED -		
PLOT SCALE = $SCALE$	CHECKED - MH	REVISED -		
PLOT DATE = 3/21/2024	DATE - 9/15/22	REVISED -		SCALE: 1"=50' SHEET 50 OF 52 SHEETS STA. 848+00 TO STA. 863+000

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
365	2020-265-SUR, SW & TS	DUPAGE/COOK	462	408
		CONTRACT NO. 62N32		
	ILLINOIS	FED. AID PROJECT		

Long Section Number



NOTE:

1. THE UNDERGROUND CONDUIT WITH FIBER OPTIC CABLE SHALL BE INSTALLED AS CLOSE TO RIGHT OF WAY AS POSSIBLE WITHOUT BEING INSTALLED IN THE DITCH. THE UNDERGROUND CONDUIT IS SHOWN AVOIDING VISIBLE OBSTACLES.
2. FIBER OPTIC CABLE SLACK SHALL BE 100 FT. FOR EACH CABLE AT EACH SPLICE LOCATION, ABOVE OR BELOW GROUND.
3. FIBER OPTIC CABLE SLACK SHALL BE 50 FEET FOR EACH CABLE AT ACCESS POINTS, ABOVE OR BELOW GROUND, WHERE SPLICING IS NOT INVOLVED.

AMES Engineering, Inc.
CONSULTING ENGINEERS
6330 Belmont Road, Suite 4B
Downers Grove, IL 60516

USER NAME = shassan	DESIGNED - BL	REVISED -	
	DRAWN - MD	REVISED -	
PLOT SCALE = $SCALE$	CHECKED - MH	REVISED -	
PLOT DATE = 2/23/2024	DATE - 9/15/22	REVISED -	

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

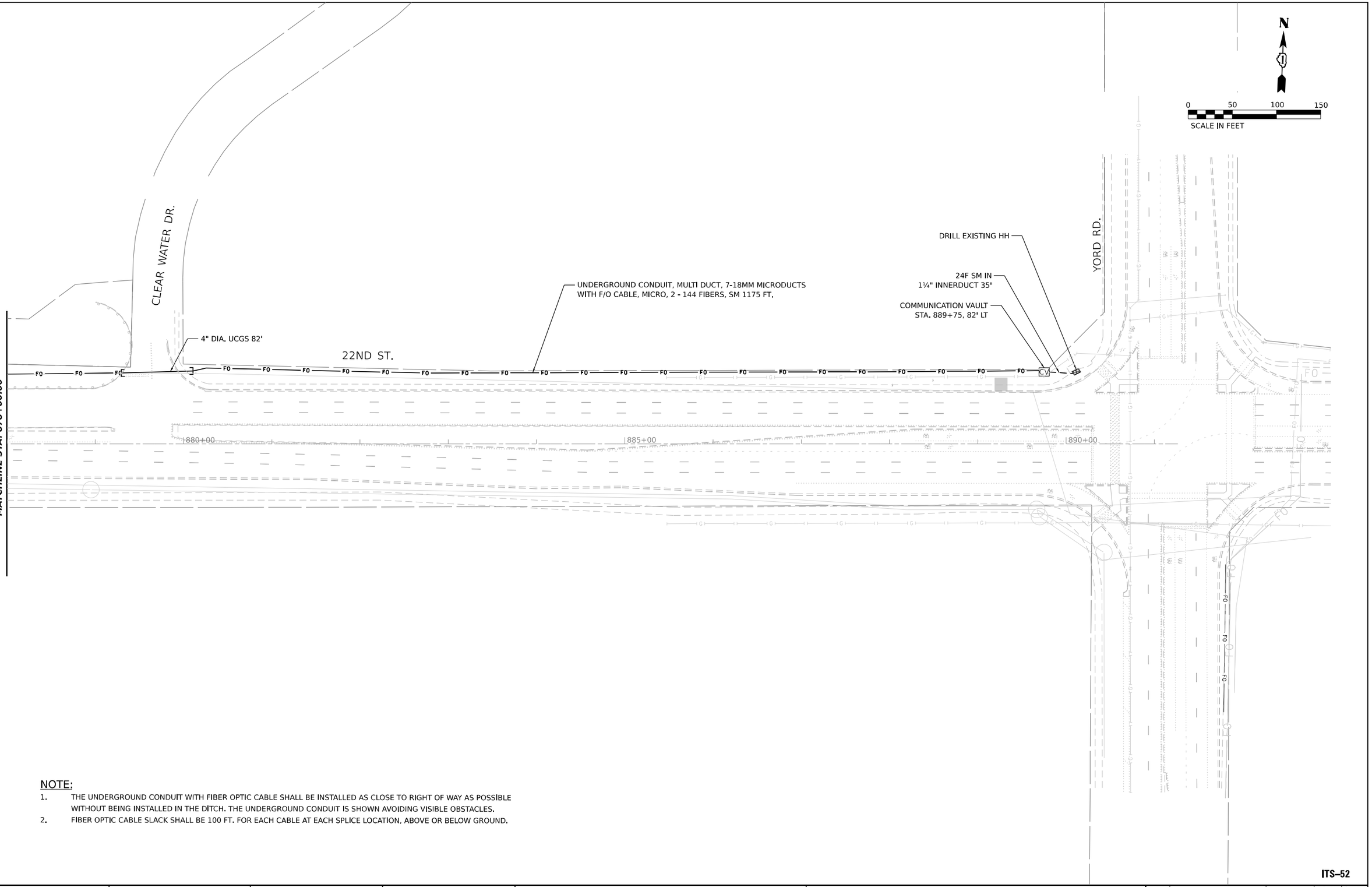
PROPOSED FIBER ROUTE PLANS
IL ROUTE 56

SCALE: 1"=50' | SHEET 51 OF 52 SHEETS | STA. 863+00 TO STA. 878+00

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
365	2020-265-SUR, SW & TS	DUPAGE/COOK	462	409
		CONTRACT NO. 62N32		
	ILLINOIS	FED. AID PROJECT		

Long Section Number

MODEL: $MODELNAME$
FILE NAME: D:\62N32-sht-ITS.dgn



NOTE:

1. THE UNDERGROUND CONDUIT WITH FIBER OPTIC CABLE SHALL BE INSTALLED AS CLOSE TO RIGHT OF WAY AS POSSIBLE WITHOUT BEING INSTALLED IN THE DITCH. THE UNDERGROUND CONDUIT IS SHOWN AVOIDING VISIBLE OBSTACLES.
2. FIBER OPTIC CABLE SLACK SHALL BE 100 FT. FOR EACH CABLE AT EACH SPLICE LOCATION, ABOVE OR BELOW GROUND.

ITS–52

MODEL: $MODELNAME$
FILE NAME: D162N32-sht-ITS.dgn

AMES Engineering, Inc.
CONSULTING ENGINEERS
6330 Belmont Road, Suite 4B
Downers Grove, IL 60516

USER NAME = shassan	DESIGNED - BL	REVISED -	
	DRAWN - MD	REVISED -	
PLOT SCALE = $SCALE$	CHECKED - MH	REVISED -	
PLOT DATE = 2/23/2024	DATE - 9/15/22	REVISED -	

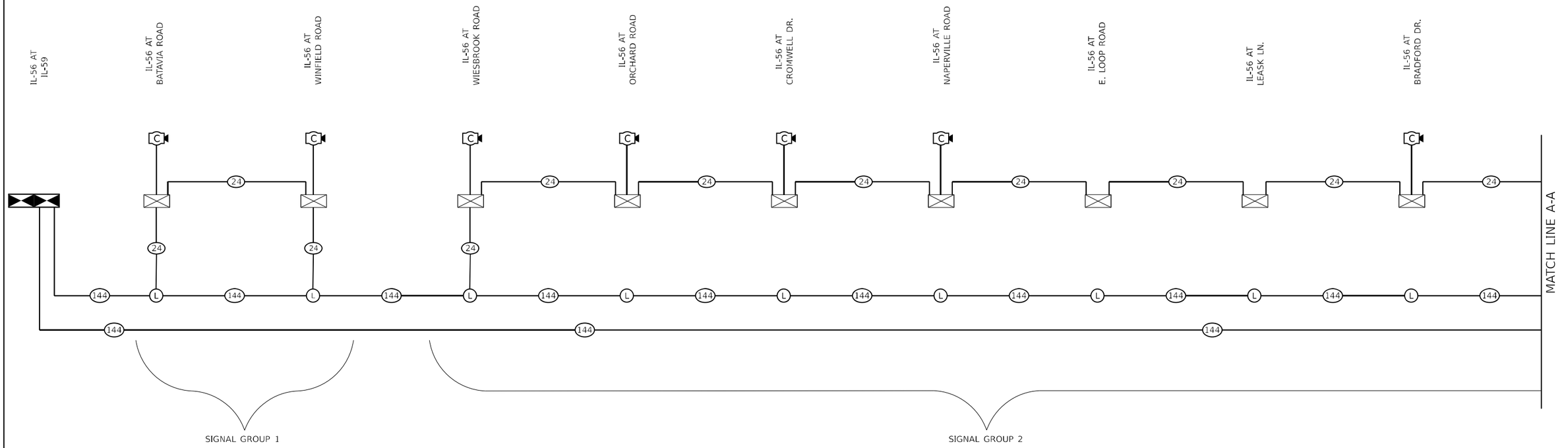
STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

PROPOSED FIBER ROUTE PLANS
IL ROUTE 56

SCALE: 1"=50' | SHEET 52 OF 52 SHEETS | STA. 878+00 TO STA.

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
365	2020-265-SUR, SW & TS	DUPAGE/COOK	462	410
		CONTRACT NO. 62N32		
	ILLINOIS	FED. AID PROJECT		

Long Section Number



LEGEND:

- TRAFFIC SIGNAL CABINET
- IDOT COMMUNICATION NODE
- FIBER OPTIC CABLE (XX = STRAND COUNT)
- CCTV CAMERA
- DMS — DYNAMIC MESSAGE SIGN
- LATERAL SPLICE LOCATION

ITS–53

MODEL: SMODELNAMES
FILE NAME: D162N32-sht-ITS53.dgn

AMES Engineering, Inc.
CONSULTING ENGINEERS
6330 Belmont Road, Suite 4B
Downers Grove, IL 60516

USER NAME = shassan	DESIGNED - BL	REVISED -	
	DRAWN - MD	REVISED -	
PLOT SCALE = $SCALE$	CHECKED - MH	REVISED -	
PLOT DATE = 2/23/2024	DATE - 9/15/22	REVISED -	

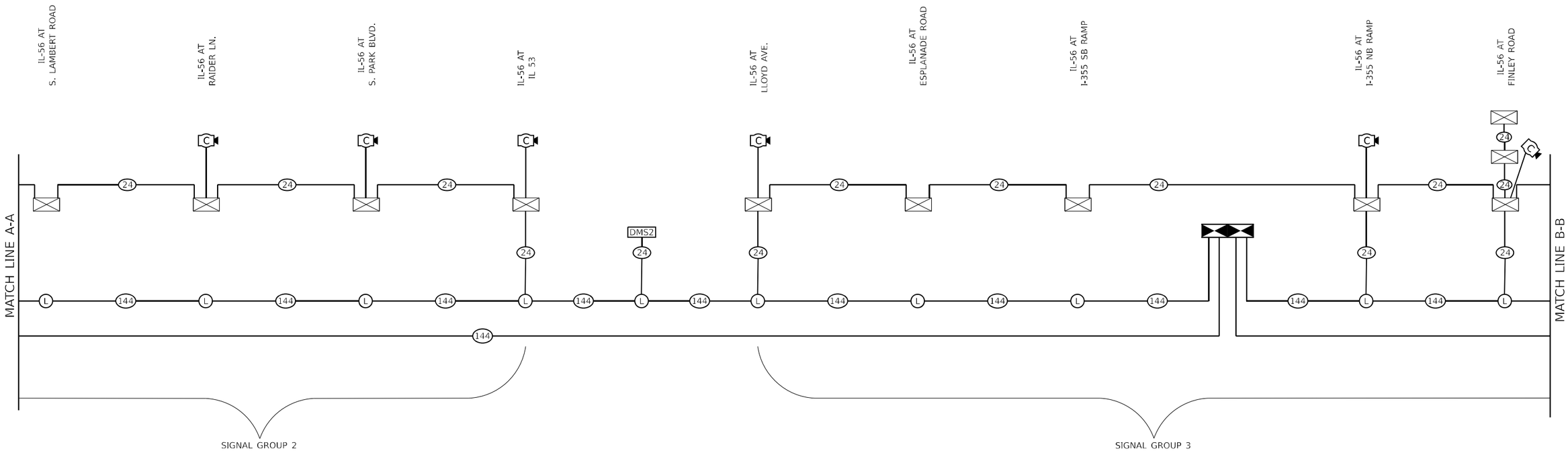
STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

COMMUNICATION SINGLE LINE DIAGRAM
FIBER OPTIC CABLE OVERVIEW

SCALE: NONE | SHEET 1 OF 4 SHEETS | STA. | TO STA.

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
365	2020-265-SUR, SW & TS	DUPAGE/COOK	462	411
		CONTRACT NO. 62N32		
	ILLINOIS	FED. AID PROJECT		

Long Section Number



LEGEND:

- TRAFFIC SIGNAL CABINET
- IDOT COMMUNICATION NODE
- FIBER OPTIC CABLE (XX = STRAND COUNT)
- CCTV CAMERA
- DYNAMIC MESSAGE SIGN
- LATERAL SPLICE LOCATION

ITS–54

MODEL: SMODELNAMES
FILE NAME: D162N32-sht-ITS54.dgn

AMES Engineering, Inc.
CONSULTING ENGINEERS
6330 Belmont Road, Suite 4B
Downers Grove, IL 60516

USER NAME = shassan	DESIGNED - BL	REVISED -	
	DRAWN - MD	REVISED -	
PLOT SCALE = $SCALE$	CHECKED - MH	REVISED -	
PLOT DATE = 2/23/2024	DATE - 9/15/22	REVISED -	

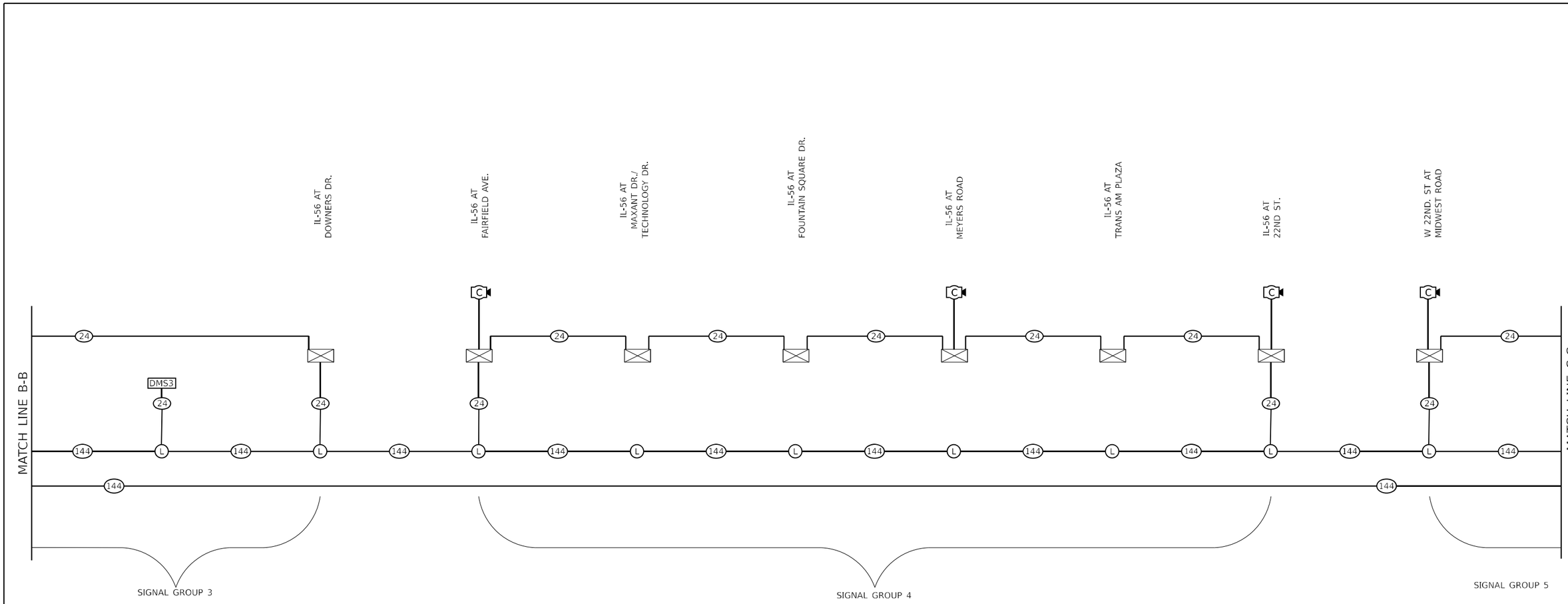
STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

COMMUNICATION SINGLE LINE DIAGRAM
FIBER OPTIC CABLE OVERVIEW

SCALE: NONE | SHEET 2 OF 4 SHEETS | STA. | TO STA.

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
365	2020-265-SUR, SW & TS	DUPAGE/COOK	462	412
		CONTRACT NO. 62N32		
	ILLINOIS	FED. AID PROJECT		

Long Section Number



LEGEND:

- TRAFFIC SIGNAL CABINET
- IDOT COMMUNICATION NODE
- FIBER OPTIC CABLE (XX = STRAND COUNT)
- CCTV CAMERA
- DYNAMIC MESSAGE SIGN
- LATERAL SPLICE LOCATION

ITS–55

MODEL: SMODELNAMES
FILE NAME: D162N32-sht-ITS55.dgn

AMES Engineering, Inc.
CONSULTING ENGINEERS
6330 Belmont Road, Suite 4B
Downers Grove, IL 60516

USER NAME = shassan	DESIGNED - BL	REVISED -	
	DRAWN - MD	REVISED -	
PLOT SCALE = $SCALE$	CHECKED - MH	REVISED -	
PLOT DATE = 2/23/2024	DATE - 9/15/22	REVISED -	

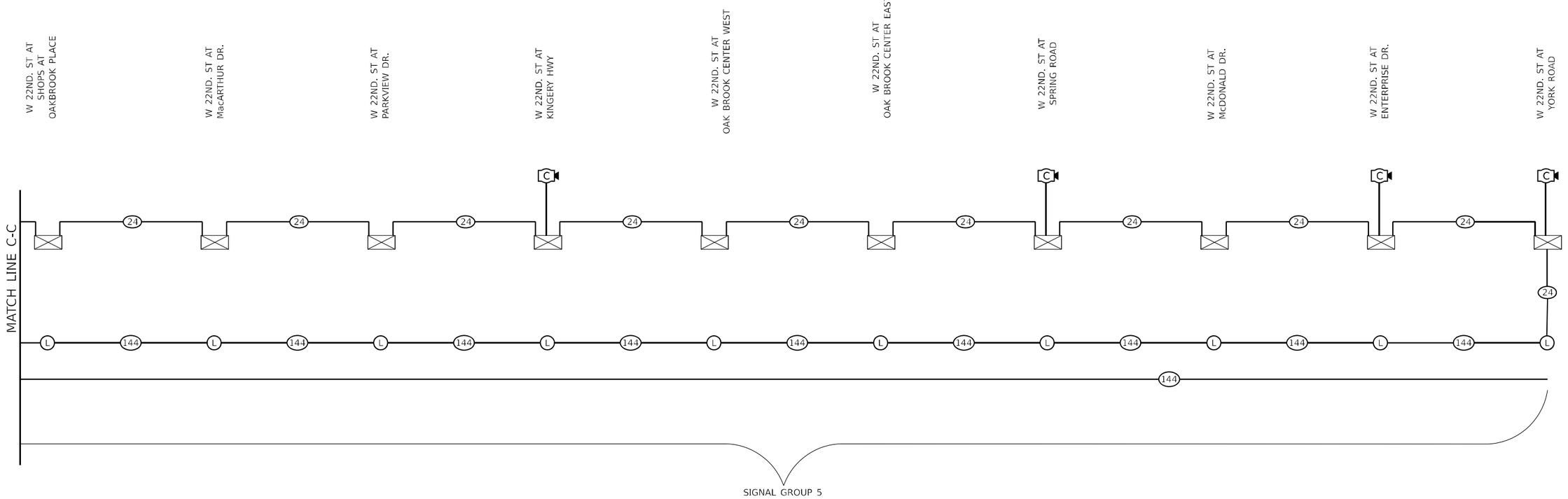
STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

COMMUNICATION SINGLE LINE DIAGRAM
FIBER OPTIC CABLE OVERVIEW

SCALE: NONE | SHEET 3 OF 4 SHEETS | STA. | TO STA.

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
365	2020-265-SUR, SW & TS	DUPAGE/COOK	462	413
		CONTRACT NO. 62N32		
	ILLINOIS	FED. AID PROJECT		

Long Section Number



LEGEND:

- TRAFFIC SIGNAL CABINET
- IDOT COMMUNICATION NODE
- FIBER OPTIC CABLE (XX = STRAND COUNT)
- CCTV CAMERA
- DMS — DYNAMIC MESSAGE SIGN
- L — LATERAL SPLICE LOCATION

ITS–56

MODEL: sMODELNAME$
FILE NAME: D162N32-sht-ITS56.dgn

AMES Engineering, Inc.
CONSULTING ENGINEERS
6330 Belmont Road, Suite 4B
Downers Grove, IL 60516

USER NAME = shassan	DESIGNED - BL	REVISED -	
	DRAWN - MD	REVISED -	
PLOT SCALE = $SCALE$	CHECKED - MH	REVISED -	
PLOT DATE = 2/23/2024	DATE - 9/15/22	REVISED -	

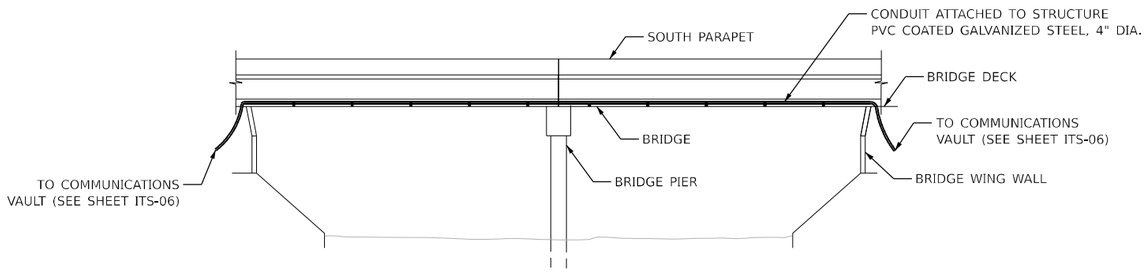
STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

COMMUNICATION SINGLE LINE DIAGRAM
FIBER OPTIC CABLE OVERVIEW

SCALE: NONE | SHEET 4 OF 4 SHEETS | STA. | TO STA.

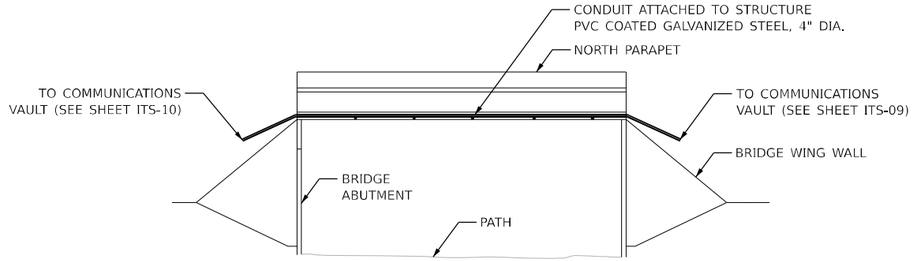
F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
365	2020-265-SUR, SW & TS	DUPAGE/COOK	462	414
		CONTRACT NO. 62N32		
	ILLINOIS	FED. AID PROJECT		

Long Section Number



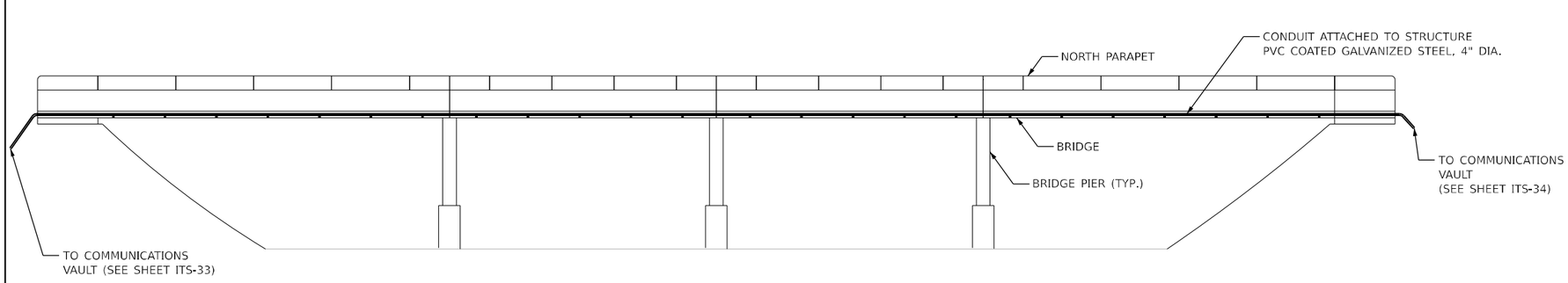
IL 56 OVER WEST BRANCH OF DUPAGE RIVER (NOTE 2, 3)

N.T.S.



IL 56 OVER ILLINOIS PRAIRIE PATH

N.T.S.



IL 56 OVER I-355 (NOTE 2)

N.T.S.

NOTES:

1. THE CONDUIT SHALL BE INSTALLED SUCH THAT THE BEND RADIUS DOES NOT EXCEED THE MINIMUM BEND RADIUS OF THE MICRO DUCT.
2. EXPANSION COUPLING SHALL BE INSTALLED AS REQUIRED AT ALL STRUCTURAL EXPANSION JOINTS.
3. THIS DETAIL IS APPLICABLE FOR STRUCTURES:
   IL 56 OVER EAST BRANCH OF DUPAGE RIVER (ITS-30) AND 22ND ST. OVER SALT CREEK (ITS-51).
4. THE CONDUIT SHALL BE SECURED WITH PVC COATED CONDUIT CLAMPS AT 5'-0" INTERVALS.

MODEL: SMODELNAME$
FILE NAME: D162N32-sht-its57.dgn

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6330 Belmont Road, Suite 4B
Downers Grove, IL 60516

USER NAME = shassan		DESIGNED -	BL	REVISED -	
		DRAWN -	MD	REVISED -	
PLOT SCALE = $SCALE$		CHECKED -	MH	REVISED -	
PLOT DATE = 2/23/2024		DATE -	9/15/22	REVISED -	

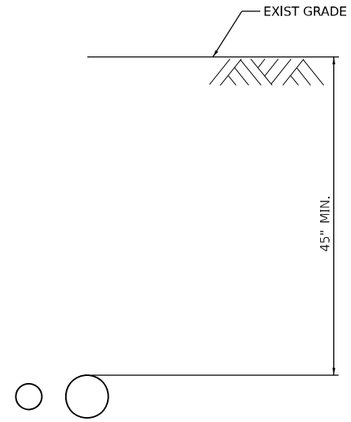
STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

CONDUIT ATTACHED TO STRUCTURE
IL ROUTE 56

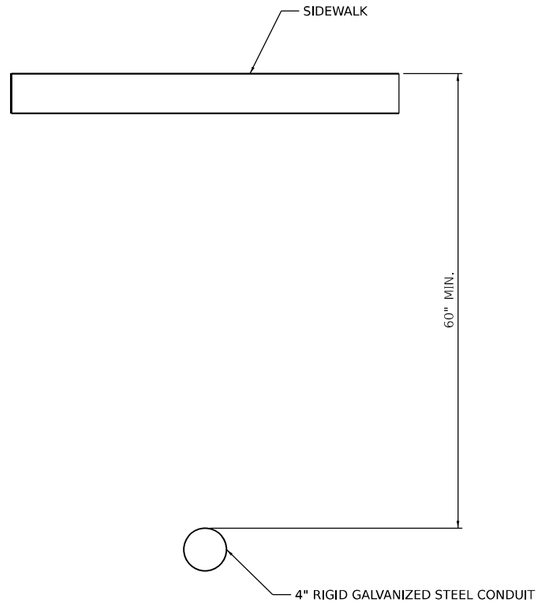
SCALE: NONE | SHEET OF SHEETS | STA. | TO STA.

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
365	2020-265-SUR, SW & TS	DUPAGE/COOK	462	415
		CONTRACT NO. 62N32		
	ILLINOIS	FED. AID PROJECT		

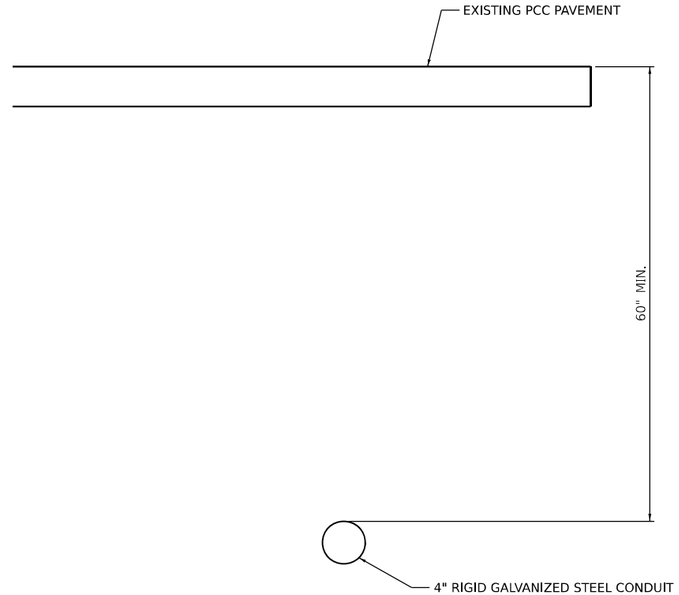
Long Section Number



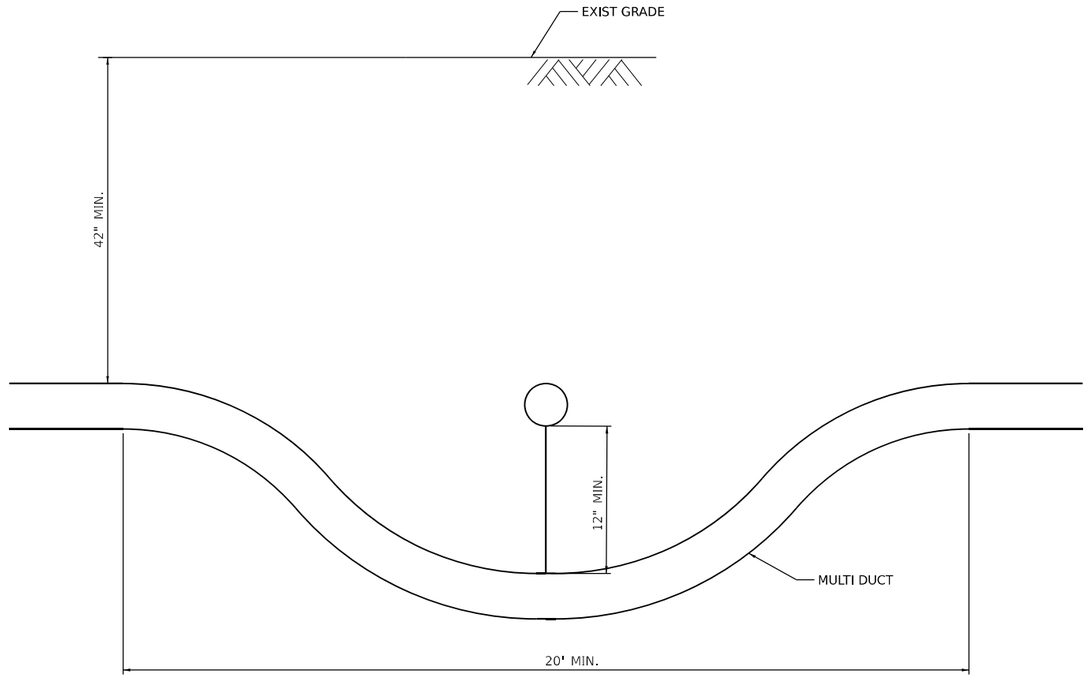
BORED CONDUIT, MULTI DUCT, 7-18MM MICRODUCTS
OR 1 1/4" INNER DUCT IN UN PAVED AREAS
NOTE 1



PUSHED CONDUIT BENEATH SIDEWALK
NOTE 2



BORED OR PUSHED CONDUIT BENEATH ROADWAY



UTILITY CLEARANCE DETAIL

NOTES:

1. MULTIDUCT AND INNERDUCT ARE NOT NECESSARILY INSTALLED AT THE SAME LOCATIONS.
2. THIS LOCATION IS BENEATH I-88.

ITS–58

MODEL: $MODELNAME$
FILE NAME: D:\62N32-sht-its58.dgn

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6330 Belmont Road, Suite 4B
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USER NAME = shassan		DESIGNED - BL	REVISED -		
		DRAWN - MD	REVISED -		
PLOT SCALE = $SCALE$		CHECKED - MH	REVISED -		
PLOT DATE = 2/23/2024		DATE - 9/15/22	REVISED -		

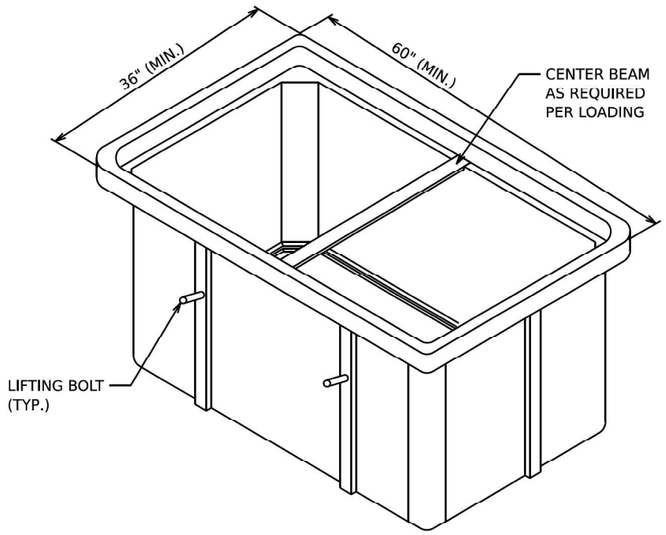
STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

CONDUIT INSTALLATION DETAILS
IL ROUTE 56

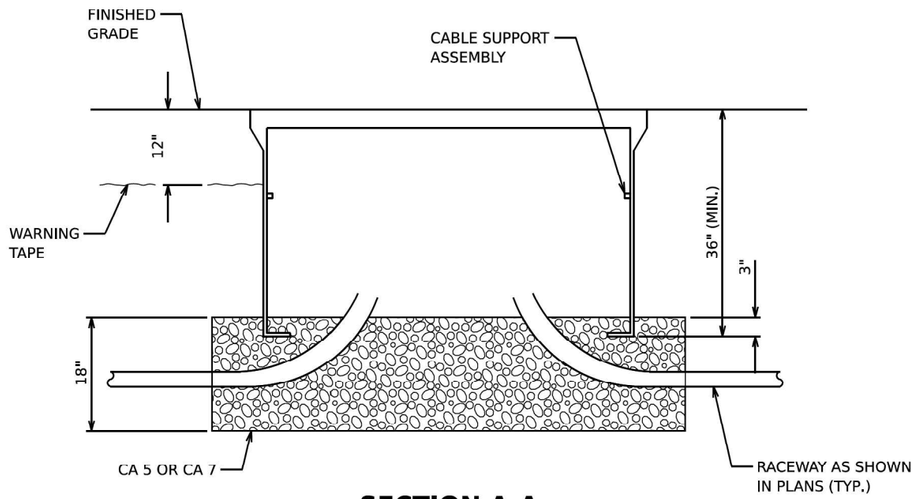
SCALE: N.T.S. | SHEET 1 OF 1 SHEETS | STA. | TO STA.

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
365	2020-265-SUR, SW & TS	DUPAGE/COOK	462	416
		CONTRACT NO. 62N32		
	ILLINOIS FED. AID PROJECT			

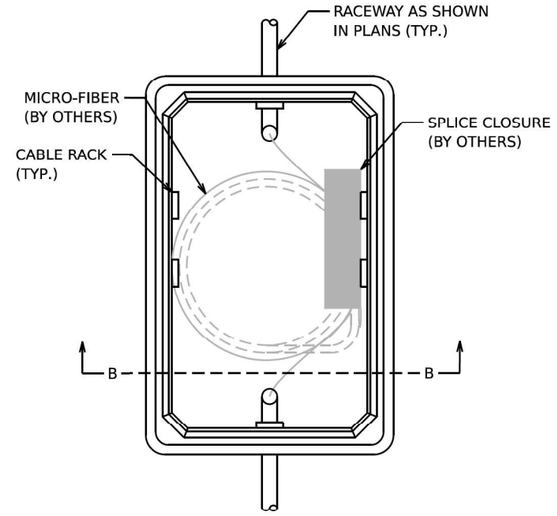
Long Section Number



VAULT BOX
ISOMETRIC VIEW



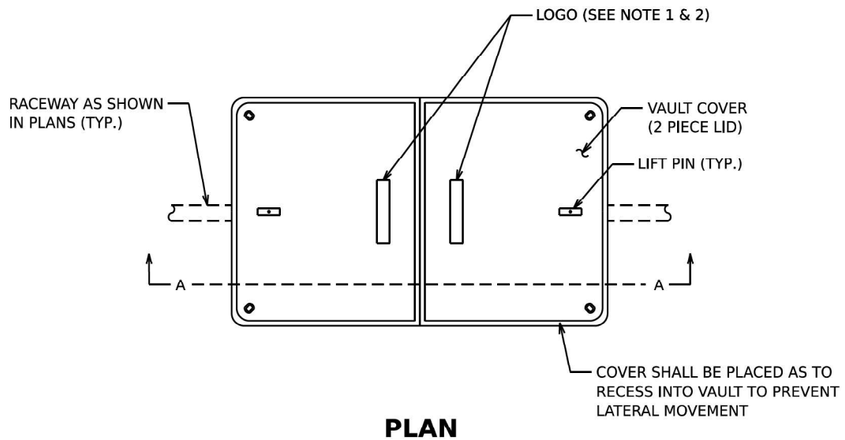
SECTION A-A



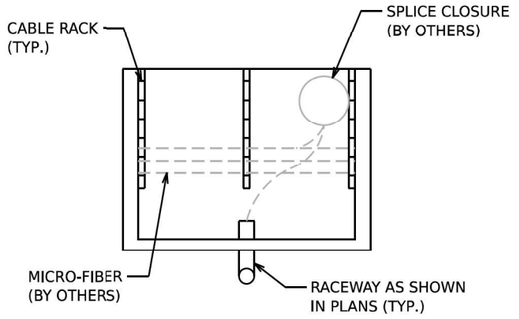
TOP VIEW

NOTES

1. IDOT COMMUNICATIONS VAULTS SHALL HAVE A PERMANENTLY RECESSED LOGO THAT READS "IDOT COMMUNICATIONS", OR AS OTHERWISE DESIGNATED BY THE ENGINEER.
2. THIRD PARTY COMMUNICATIONS VAULTS SHALL HAVE NO LOGO.
3. VAULT SHALL HAVE AN OPEN BASE. ALL CONDUITS AS SHOWN ON THE PLANS SHALL ENTER THE VAULT VIA THE OPEN BASE.
4. ALL DIMENSIONS ARE MINIMUM AND A LARGER SIZE VAULT MAY BE USED, WITH THE APPROVAL OF THE ENGINEER, TO FACILITATE USING A MANUFACTURER'S STANDARD PRODUCT.



PLAN



SECTION B-B

MODEL: SMODELNAME$
FILE NAME: D182N32-sht-its59.dgn

AMES Engineering, Inc. CONSULTING ENGINEERS 6330 Belmont Road, Suite 4B Downers Grove, IL 60516	USER NAME = shassan	DESIGNED - BL	REVISED -	STATE OF ILLINOIS DEPARTMENT OF TRANSPORTATION	ITS INFRASTRUCTURE DETAILS COMMUNICATION VAULT
		DRAWN - MD	REVISED -		
	PLOT SCALE = $SCALE$	CHECKED - MH	REVISED -		SCALE: 1"=50' SHEET OF SHEETS STA. TO STA.
	PLOT DATE = 2/23/2024	DATE - 9/15/22	REVISED -		

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
365	2020-265-SUR, SW & TS	DUPAGE/COOK	462	417
		CONTRACT NO. 62N32		
	ILLINOIS	FED. AID PROJECT		

Long Section Number

NETWORK DIAGRAM LEGEND

SYBMOL	DESCRIPTION
FOC XXF YY [ZZZ]	FIBER OPTIC CABLE (XX = STRAND COUNT, YY = FIBER TYPE, ZZZ = DESIGNATION)
BLUE-1	STRAND COLOR AND NUMBER
	FIBER OPTIC PIGTAIL, SINGLE MODE
	DUPLEX FIBER OPTIC JUMPER, SINGLE MODE (PATCH PANEL TO PATCH PANEL)
	DUPLEX FIBER OPTIC JUMPER, SINGLE MODE (PATCH PANEL TO DEVICE)
	FIBER OPTIC FUSION SPLICE
	NON-TERMINATED FIBER STRAND
1 2 3 4 5 6 7 8 9 10 11 12 / 1 2 3 4 5 6 7 8 9 10 11 12	FIBER PATCH PANEL MODULE (POSITION NUMBER INDICATED)
XXX	FIBER OPTIC CABLE TRANSCEIVER (XXX = DATA TRANSMISSION RATE)
	RJ-45 PORT ETHERNET PORT
	CAT-6 CABLE
CCTV	PAN-TILT-ZOOM CCTV CAMERA

NOTE: UNOCCUPIED PORTS ARE FILLED WHITE, OCCUPIED PORTS ARE FILLED BLACK

GENERAL NOTES

1. UNUSED PORTS ON THE FIBER DISTRIBUTION PANEL SHALL BE COVERED WITH A BLANK PANEL.
2. DARK FIBER OPTIC STRANDS AND TUBES SHALL PASS THROUGH SPLICE CLOSURES UNCUT.
3. CONTRACTOR SHALL DETERMINE THE LOCATION OF THE END-OF-REEL SPLICES BASED UPON CABLE REEL SIZE PROCURED AND MAXIUMUM DISTANCE THAT CAN BE PULLED WITHOUT EXCEEDING MANUFACTURER SPECIFICATIONS FOR CABLE TENSION. END-OF-REEL SPLICES SHALL BE CO-LOCATED WITH LATERAL SPLICE LOCATIONS WHERE POSSIBLE. END-OF-REEL SPLICES ARE INCLUDED IN THE COST OF CABLE INSTALLATION AND WILL NOT BE PAID FOR SEPARATELY. ONLY SPLICES BETWEEN THE 24 STRAND LATERAL FIBER CABLES AND 144 STRAND BACKBONE CABLE WILL BE PAID FOR ON A PER EACH BASIS. FUSION SPLICES TO FIBER OPTIC PIGTAILS IN FIBER DISTRIBUTION PANELS ARE INCLUDED IN THE COST OF CABLE TERMINATION.
4. UPON SUCCESSFUL INSTALLATION, SPLICING, AND TERMINATION OF ALL FIBER OPTIC CABLES THE CONTRACTOR SHALL TEST EACH STRAND TO ENSURE THAT LOSS IS WITHIN ACCEPTEBLE PARAMETERS PER THE SPECIFICATIONS.
5. FIBER OPTIC TRANSCEIVERS INSTALLED IN LAYER II DATALINK SWITCHES SHALL HAVE DATA TRANSMISSION RATES OF 1 GBPS AND BE CISCO MODEL GLC-LX-SM-RGD (OR APPROVED EQUAL) UNLESS OTHERWISE NOTED ON THE PLANS.
6. FIBER OPTIC TRANSCEIVERS INSTALLED IN LAYER III NODE SWITCHES FOR CONNECTION TO LAYER II DATALINK SWITCHES SHALL HAVE DATA TRANSMISSION RATES OF 1 GBPS AND BE CISCO MODEL GLC-LX-SM-RGD (OR APPROVED EQUAL) UNLESS OTHERWISE NOTED ON THE PLANS.
7. FIBER OPTIC TRANSCEIVERS INSTALLED IN LAYER III NODE SWITCHES FOR CONNECTION TO OTHER NODE OR CORE SWITCHES SHALL HAVE DATA TRANSMISSION RATES OF 10 GBPS AND BE CISCO MODEL SFP-10G-BX40U-I (OR APPROVED EQUAL) UNLESS OTHERWISE NOTED ON THE PLANS.

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	DRAWN - SR	REVISED -	
PLOT SCALE = $SCALE$	CHECKED - JAR	REVISED -	
PLOT DATE = 2/23/2024	DATE - 9/15/22	REVISED -	

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

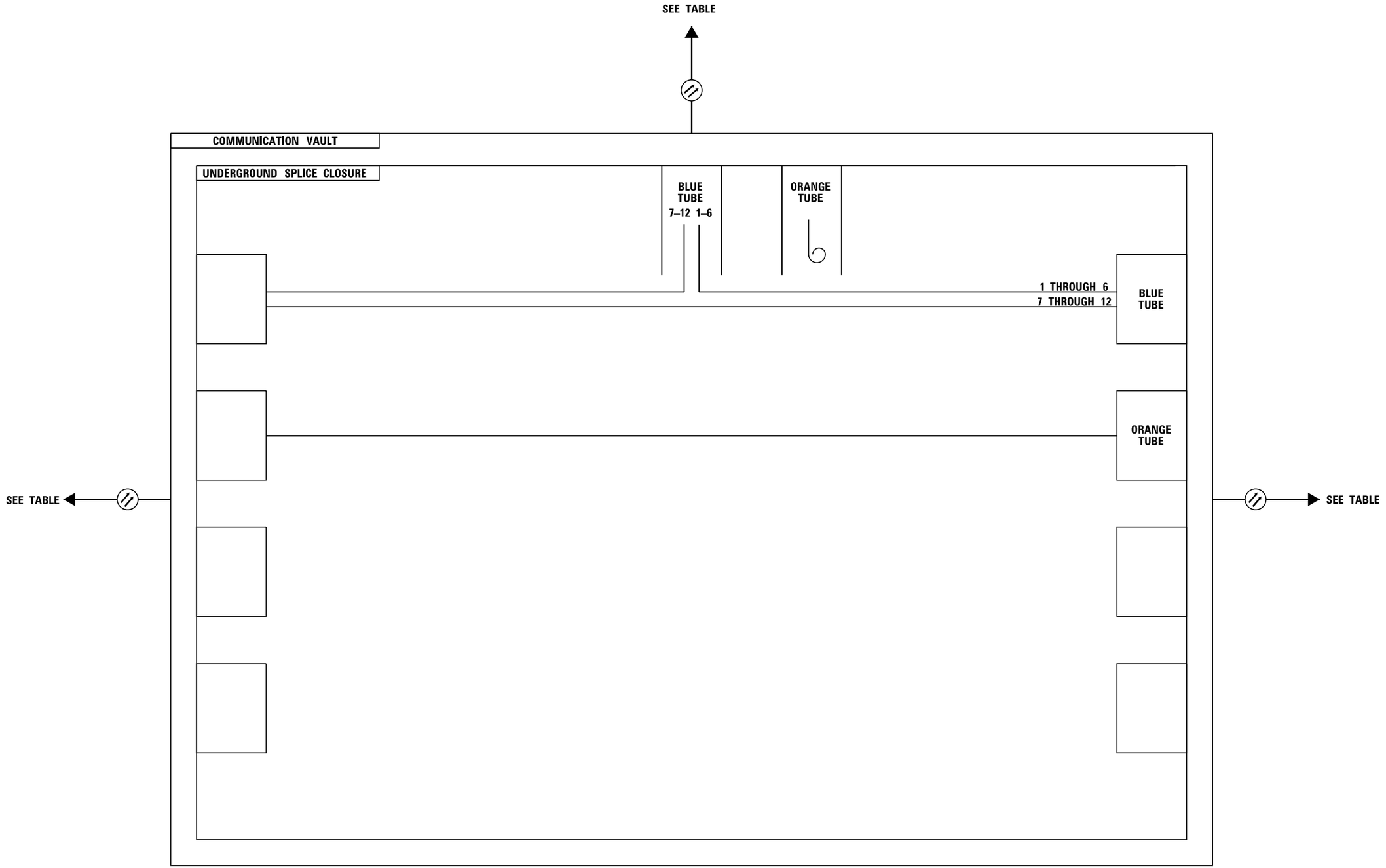
TYPICAL FIBER SPLICING AND CABINET CONNECTION DETAILS
LEGEND AND GENERAL NOTES

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

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
365	2020-265-SUR, SW & TS	DUPAGE/COOK	462	418
		CONTRACT NO. 62N32		
	ILLINOIS FED. AID PROJECT			

Long Section Number

MODEL: $MODELNAME$
FILE NAME: D:\62N32-sht-its60.dgn



ITS–61

MODEL: $MODELNAME$
FILE NAME: D162N32-sht-its61.dgn

AMES Engineering, Inc.
CONSULTING ENGINEERS
6330 Belmont Road, Suite 4B
Downers Grove, IL 60516

USER NAME = shassan	DESIGNED - TM	REVISED -	
	DRAWN - SR	REVISED -	
PLOT SCALE = $SCALE$	CHECKED - JAR	REVISED -	
PLOT DATE = 2/23/2024	DATE - 9/15/22	REVISED -	

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

TYPICAL FIBER SPLICING AND CABINET CONNECTION DETAILS
COMMUNICATION VAULT

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

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
365	2020-265-SUR, SW & TS	DUPAGE/COOK	462	419
		CONTRACT NO. 62N32		
	ILLINOIS	FED. AID PROJECT		

Long Section Number

TABLE

	WEST TO	NORTH TO	EAST TO
SIGNAL GROUP 1	IL 56 & IL 59	CONTROLLER	SIGNAL GROUP 2
SIGNAL GROUP 2	SIGNAL GROUP 1	CONTROLLER	SIGNAL GROUP 3
SIGNAL GROUP 3	SIGNAL GROUP 2	CONTROLLER	SIGNAL GROUP 4
SIGNAL GROUP 4	SIGNAL GROUP 3	CONTROLLER	SIGNAL GROUP 5
SIGNAL GROUP 5	SIGNAL GROUP 4	CONTROLLER	CONTRACT B

ITS–62

TS SHT NO. 62

MODEL: $MODELNAME$
FILE NAME: D16N32-sht-its62.dgn

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CONSULTING ENGINEERS
6330 Belmont Road, Suite 4B
Downers Grove, IL 60516

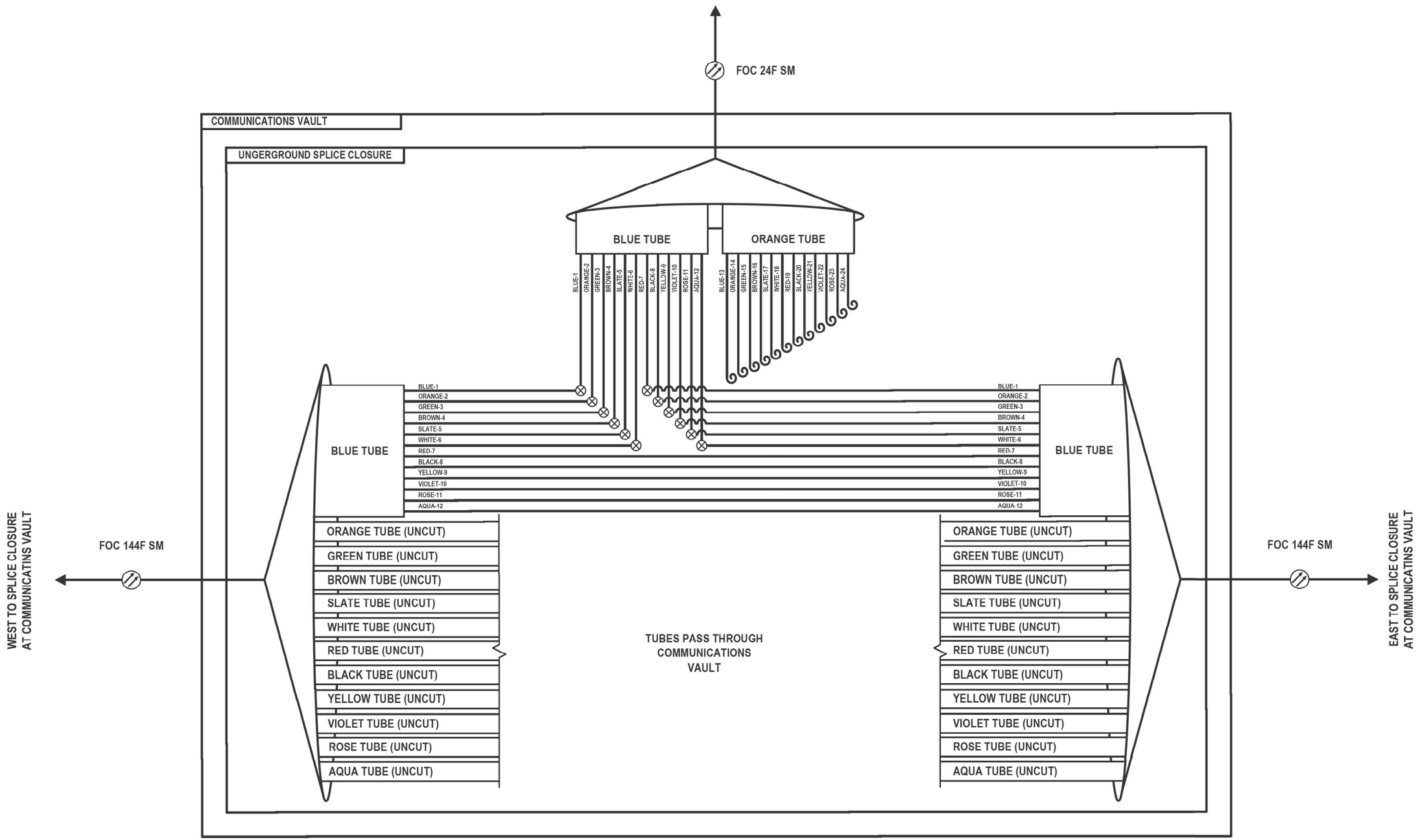
USER NAME = msomer	DESIGNED - JR	REVISED -	
	DRAWN - SR	REVISED -	
PLOT SCALE = $SCALE$	CHECKED - JR	REVISED -	
PLOT DATE = 2/23/2024	DATE - 07/14/2023	REVISED -	

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

COMMUNICATIONS TABLE
IL ROUTE 56 (BUTTERFIELD RD)

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

F.A.P RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
365	2020-265-SUR, SW & TS	DUPAGE	462	420
		CONTRACT NO. 62N32		
	ILLINOIS	FED. AID PROJECT		



ITS–63

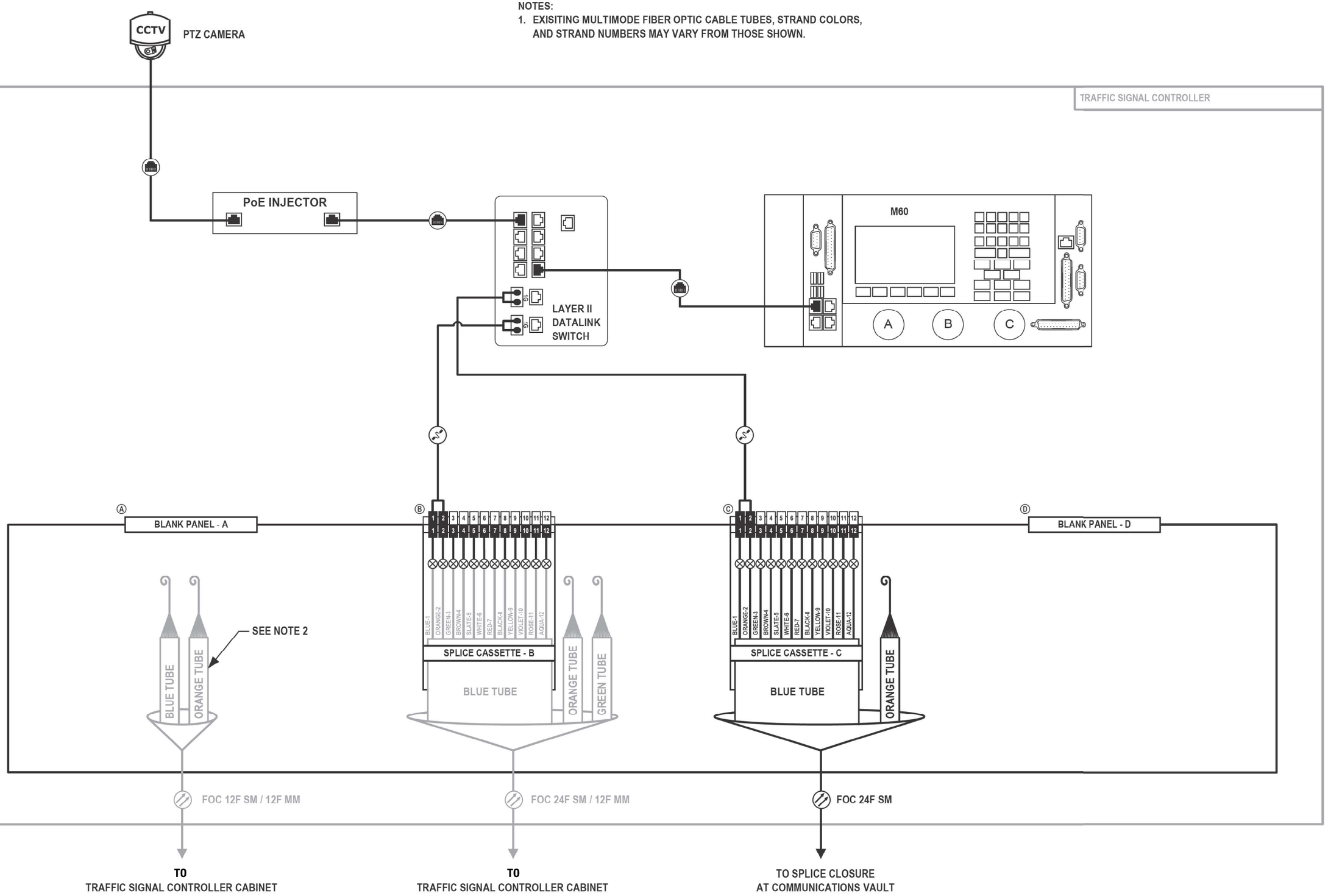
MODEL: $MODELNAME$
FILE NAME= D:\62N32-sht-its63.dgn

AMES Engineering, Inc. CONSULTING ENGINEERS 6330 Belmont Road, Suite 4B Downers Grove, IL 60516	USER NAME = msomer	DESIGNED - TM	REVISED -	STATE OF ILLINOIS DEPARTMENT OF TRANSPORTATION	TYPICAL FIBER SPLICING AND CABINET CONNECTION DETAILS COMMUNICATION VAULT
		DRAWN - SR	REVISED -		
	PLOT SCALE = $SCALE$	CHECKED - JAR	REVISED -		SCALE: 1"=50' SHEET OF SHEETS STA. TO STA.
	PLOT DATE = 2/23/2024	DATE - 9/15/22	REVISED -		

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
365	2020-265-SUR, SW & TS	DUPAGE/COOK	462	421
		CONTRACT NO. 62N32		
	ILLINOIS FED. AID PROJECT			

Long Section Number

NOTES:
1. EXISITING MULTIMODE FIBER OPTIC CABLE TUBES, STRAND COLORS, AND STRAND NUMBERS MAY VARY FROM THOSE SHOWN.



ITS–64

MODEL: $MODELNAME$
FILE NAME: D182N32-sht-ITS64.dgn

AMES Engineering, Inc.
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6330 Belmont Road, Suite 4B
Downers Grove, IL 60516

USER NAME = shassan	DESIGNED - TM	REVISED -	
	DRAWN - SR	REVISED -	
PLOT SCALE = $SCALE$	CHECKED - JAR	REVISED -	
PLOT DATE = 2/23/2024	DATE - 9/15/22	REVISED -	

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

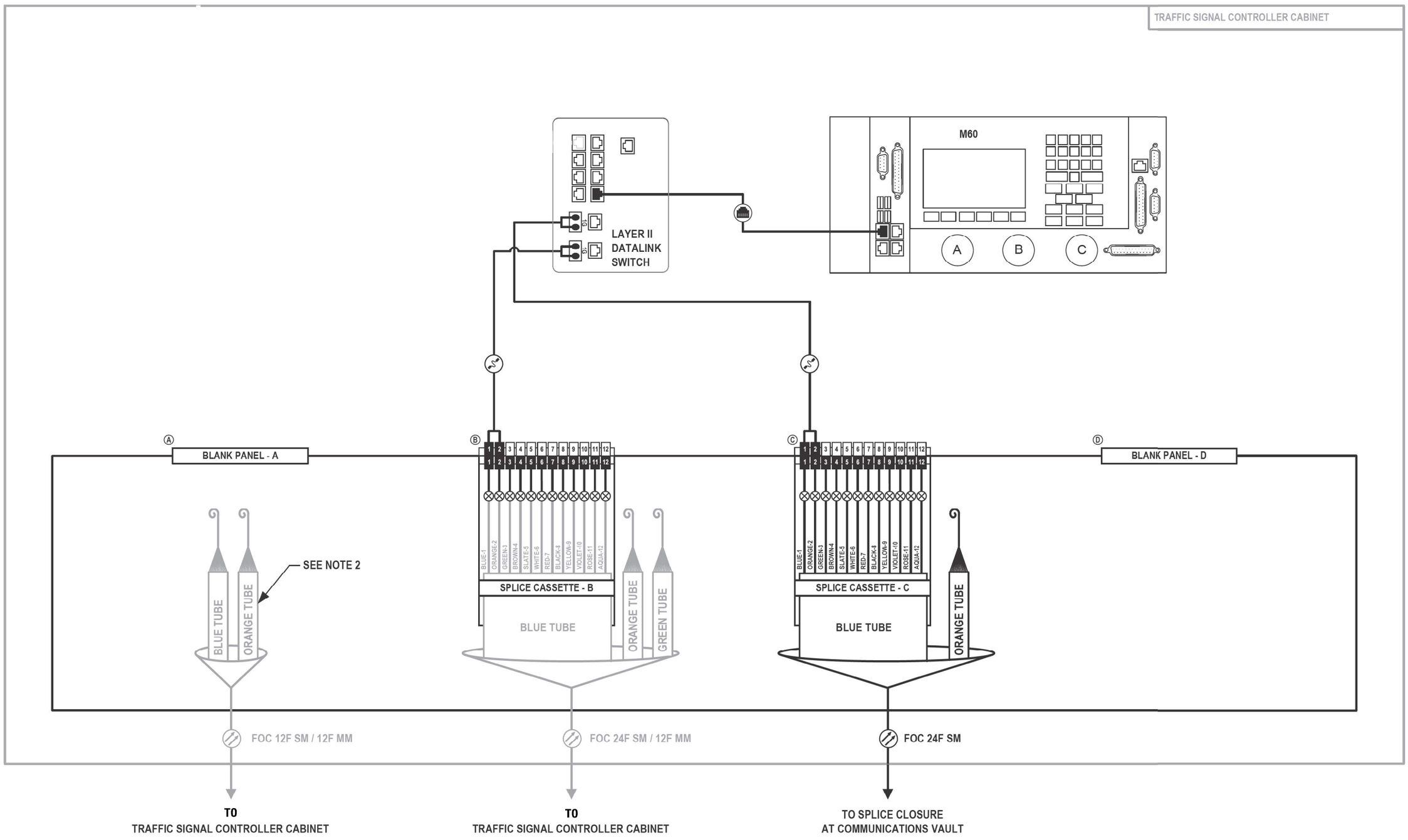
TYPICAL FIBER SPLICING AND CABINET CONNECTION DETAILS
TRAFFIC SIGNAL CONTROLLER CABINET WITH PTZ CAMERA

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

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
365	2020-265-SUR, SW & TS	DUPAGE/COOK	462	422
		CONTRACT NO. 62N32		
	ILLINOIS	FED. AID PROJECT		

Long Section Number

NOTES:
1. EXISITING MULTIMODE FIBER OPTIC CABLE TUBES, STRAND COLORS, AND STRAND NUMBERS MAY VARY FROM THOSE SHOWN.



ITS–65

MODEL: $MODELNAME$
FILE NAME: D:\62N32-sht-its65.dgn

AMES Engineering, Inc.
CONSULTING ENGINEERS
6330 Belmont Road, Suite 4B
Downers Grove, IL 60516

USER NAME = shassan	DESIGNED - TM	REVISED -	
	DRAWN - SR	REVISED -	
PLOT SCALE = $SCALE$	CHECKED - JAR	REVISED -	
PLOT DATE = 2/23/2024	DATE - 9/15/22	REVISED -	

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

TYPICAL FIBER SPLICING AND CABINET CONNECTION DETAILS
TRAFFIC SIGNAL CONTROLLER CABINET WITHOUT PTZ CAMERA

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

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
365	2020-265-SUR, SW & TS	DUPAGE/COOK	462	423
		CONTRACT NO. 62N32		
	ILLINOIS	FED. AID PROJECT		

Long Section Number

IDOT COMMUNICATIONS NODE

UPS

CISCO IE 5000 – SW1

STACKING CABLE

GLC-ZX-SM-RGD

CISCO IE 5000 – SW2

SEE SHEET ITS–67

A

B C D

SEE SHEET ITS–67

SIGNAL GROUP 1 | ITS DEVICES

ITS DEVICES | SIGNAL GROUP 2 | SIGNAL GROUP 3 | SIGNAL GROUP 4 | SIGNAL GROUP 5 | SIGNAL GROUP 6 | SIGNAL GROUP 7

x11

x132

SPLICE CASSETTES – B TO M

SPLICE CASSETTE - A

BLUE-1 ORANGE-2 GREEN-3 BROWN-4 SLATE-5 WHITE-6 RED-7 BLACK-8 YELLOW-9 VIOLET-10 ROSE-11 AQUA-12

BLUE TUBE | ORANGE TUBE | GREEN TUBE | BROWN TUBE | SLATE TUBE | WHITE TUBE | RED TUBE | BLACK TUBE | YELLOW TUBE | VIOLET TUBE | ROSE TUBE | AQUA TUBE

x8

x96

SPLICE CASSETTES – E TO M

SPLICE CASSETTE - A

BLUE-1 ORANGE-2 GREEN-3 BROWN-4 SLATE-5 WHITE-6 RED-7 BLACK-8 YELLOW-9 VIOLET-10 ROSE-11 AQUA-12

SPLICE CASSETTE - B

BLUE-13 ORANGE-14 GREEN-15 BROWN-16 SLATE-17 WHITE-18 RED-19 BLACK-20 YELLOW-21 VIOLET-22 ROSE-23 AQUA-24

SPLICE CASSETTE - C

BLUE-25 ORANGE-26 GREEN-27 BROWN-28 SLATE-29 WHITE-30 RED-31 BLACK-32 YELLOW-33 VIOLET-34 ROSE-35 AQUA-36

SPLICE CASSETTE - D

BLUE-37 ORANGE-38 GREEN-39 BROWN-40 SLATE-41 WHITE-42 RED-43 BLACK-44 YELLOW-45 VIOLET-46 ROSE-47 AQUA-48

BLUE TUBE | ORANGE TUBE | GREEN TUBE | BROWN TUBE | SLATE TUBE | WHITE TUBE | RED TUBE | BLACK TUBE | YELLOW TUBE | VIOLET TUBE | ROSE TUBE | AQUA TUBE

FOC 144F SM

FOC 144F SM

WEST TO SPLICE CLOSURE AT COMMUNICATIONS VAULT

EAST TO SPLICE CLOSURE AT COMMUNICATIONS VAULT

ITS–66

MODEL: sMODELNAME$
FILE NAME: D162N32-sht-its66.dgn

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6330 Belmont Road, Suite 4B
Downers Grove, IL 60516

USER NAME = shassan	DESIGNED - TM	REVISED -	
	DRAWN - SR	REVISED -	
PLOT SCALE = $SCALE$	CHECKED - JAR	REVISED -	
PLOT DATE = 2/23/2024	DATE - 9/15/22	REVISED -	

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

FIBER SPLICING AND CABINET CONNECTION DETAILS
IDOT COMM NODE CABINET (CAB–N0–017C) (SHEET 1 OF 2)

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

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
365	2020-265-SUR, SW & TS	DUPAGE/COOK	462	424
		CONTRACT NO. 62N32		
		ILLINOIS	FED. AID PROJECT	

Long Section Number

IDOT COMMUNICATIONS NODE

A — SEE SHEET ITS–66

B — SEE SHEET ITS–66

C — SEE SHEET ITS–66

D — SEE SHEET ITS–66

x11

x132

SPLICE CASSETTES – B TO M

SPLICE CASSETTE - A

SPLICE CASSETTE - B

BLUE-1 ORANGE-2 GREEN-3 BROWN-4 SLATE-5 WHITE-6 RED-7 BLACK-8 YELLOW-9 VIOLET-10 ROSE-11 AQUA-12

BLUE-13 ORANGE-14 GREEN-15 BROWN-16 SLATE-17 WHITE-18 RED-19 BLACK-20 YELLOW-21 VIOLET-22 ROSE-23 AQUA-24

BLUE TUBE

ORANGE TUBE

GREEN TUBE

BROWN TUBE

SLATE TUBE

WHITE TUBE

RED TUBE

BLACK TUBE

YELLOW TUBE

VIOLET TUBE

ROSE TUBE

AQUA TUBE

FOIC – 144F [PPF-NO-017E]

FOIC – 144F [PPF-NO-017F]

FOIC – 48F [PPF-NO-017G]

FOC 144F SM

FOC 144F SM

FOC 24F SM

WEST TO COMMUNICATION VAULT
(LEFT COILED IN VAULT)

EAST TO IDOT COMMUNICATIONS NODE CABINET

SOUTH TO MEDIAN JUNCTION BOX
(SEE NOTE 1)

ITS–67

MODEL: sMODELNAME5
FILE NAME: D162N32-sht-its67.dgn

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6330 Belmont Road, Suite 4B
Downers Grove, IL 60516

USER NAME = shassan	DESIGNED - TM	REVISED -
	DRAWN - SR	REVISED -
PLOT SCALE = $SCALE$	CHECKED - JAR	REVISED -
PLOT DATE = 2/23/2024	DATE - 9/15/22	REVISED -

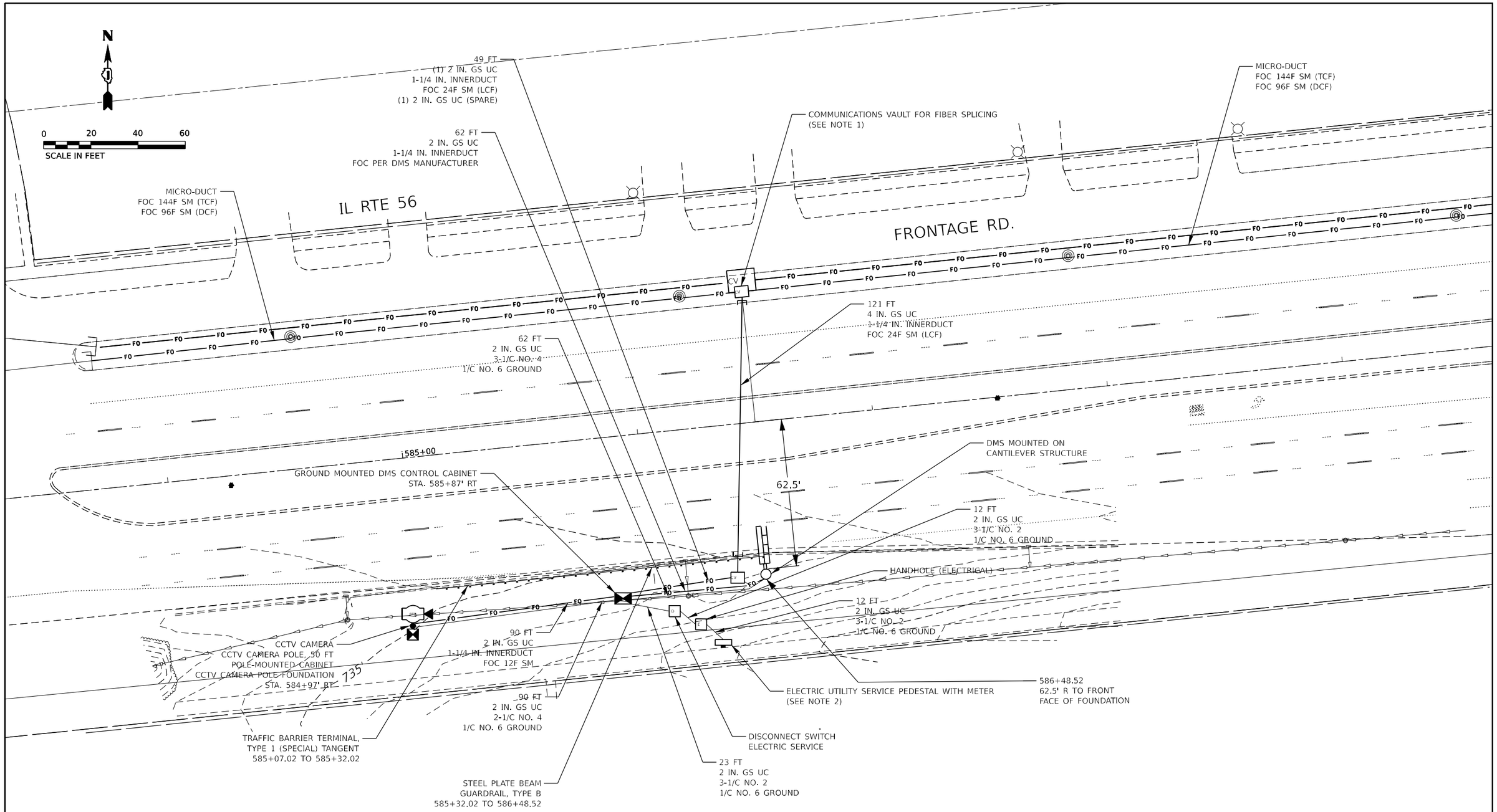
STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

FIBER SPLICING AND CABINET CONNECTION DETAILS
IDOT COMM NODE CABINET (CAB–NO–017C) (SHEET 2 OF 2)

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

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
365	2020-265-SUR, SW & TS	DUPAGE/COOK	462	425
		CONTRACT NO. 62N32		
		ILLINOIS	FED. AID PROJECT	

Long Section Number



NOTES:

1. CONTRACTOR SHALL FUSION SPLICE LATERAL CABLE-FIBER (LCF) TO DISTRIBUTION CABLE-FIBER (DCF). TRUNK CABLE-FIBER (TCF) SHALL NOT BE CUT OR SPLICED. SEE FIBER SPLICING DIAGRAMS FOR FURTHER DETAILS.
2. COMED SERVICE LOCATION TO BE DETERMINED AS OF THIS SUBMITTAL.

DMS–01

MODEL: sMODELNAME$
FILE NAME: D162N32 DMS 2 Existing Site Plan 09262022.dgn

AMES Engineering, Inc.
CONSULTING ENGINEERS
6330 Belmont Road, Unit 4B
Downers Grove, IL 60516

USER NAME = shassan	DESIGNED - JAR	REVISED -	
	DRAWN - MD	REVISED -	
PLOT SCALE = $SCALE$	CHECKED - AS	REVISED -	
PLOT DATE = 2/23/2024	DATE - 9-26-2022	REVISED -	

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

DMS 2 SITE PLAN
IL 56 /BUTTERFIELD ROAD /22ND ST.

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

F.A.U RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
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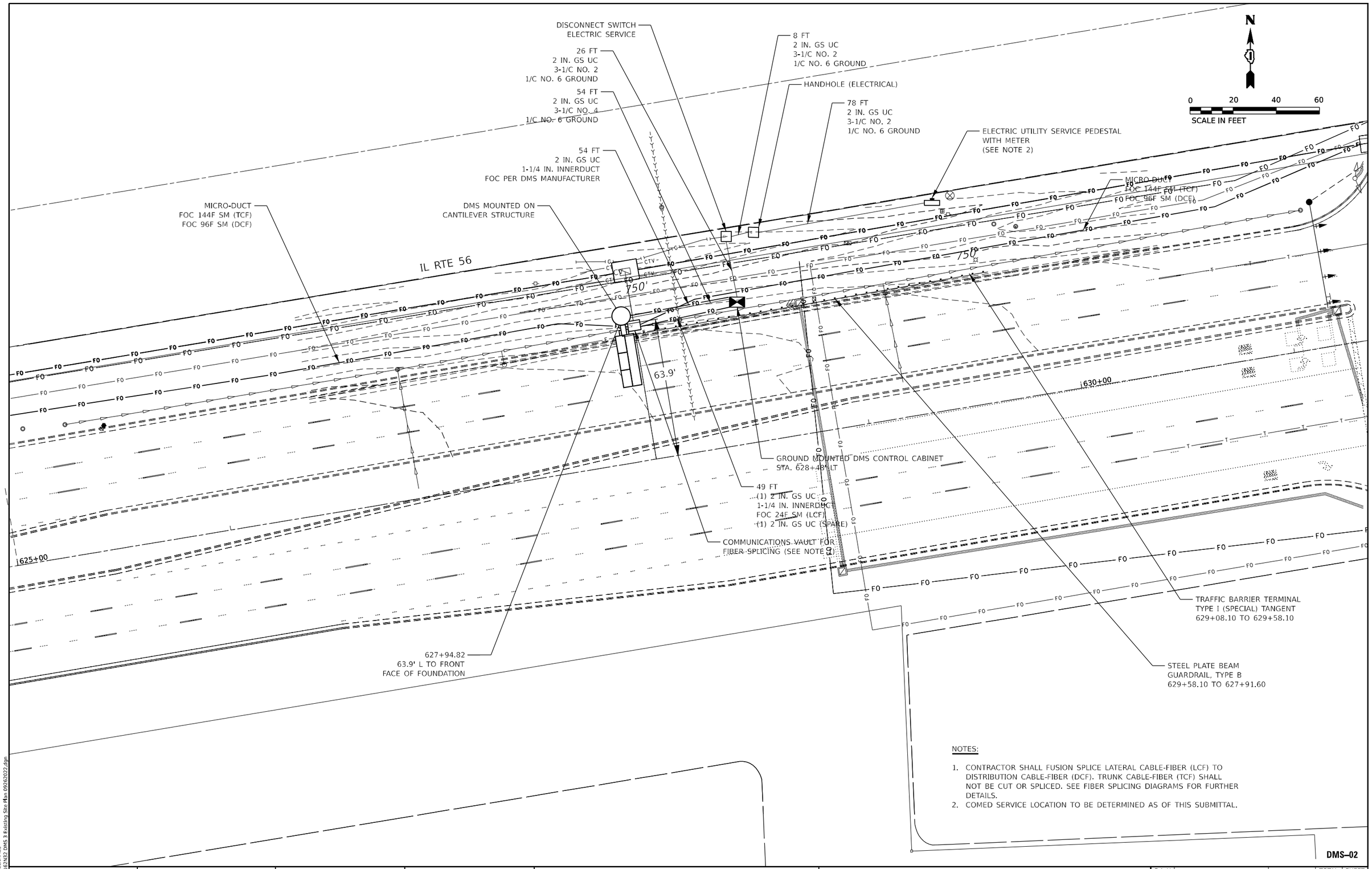
		CONTRACT NO. 62N32		
	ILLINOIS	FED. AID PROJECT		



NOTES:

1. CONTRACTOR SHALL FUSION SPLICE LATERAL CABLE-FIBER (LCF) TO DISTRIBUTION CABLE-FIBER (DCF). TRUNK CABLE-FIBER (TCF) SHALL NOT BE CUT OR SPLICED. SEE FIBER SPLICING DIAGRAMS FOR FURTHER DETAILS.
2. COMED SERVICE LOCATION TO BE DETERMINED AS OF THIS SUBMITTAL.

DMS–02

MODEL: $MODELNAME$
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AMES Engineering, Inc.
CONSULTING ENGINEERS
6330 Belmont Road, Unit 4B
Downers Grove, IL 60516

USER NAME = shassan	DESIGNED - JAR	REVISED -	
	DRAWN - MD	REVISED -	
PLOT SCALE = $SCALE$	CHECKED - AS	REVISED -	
PLOT DATE = 2/23/2024	DATE - 9-26-2022	REVISED -	

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

DMS 3 SITE PLAN
IL 56 /BUTTERFIELD ROAD /22ND ST.

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

F.A.U RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
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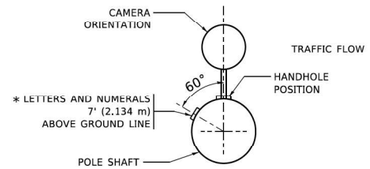
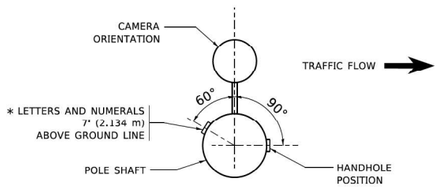
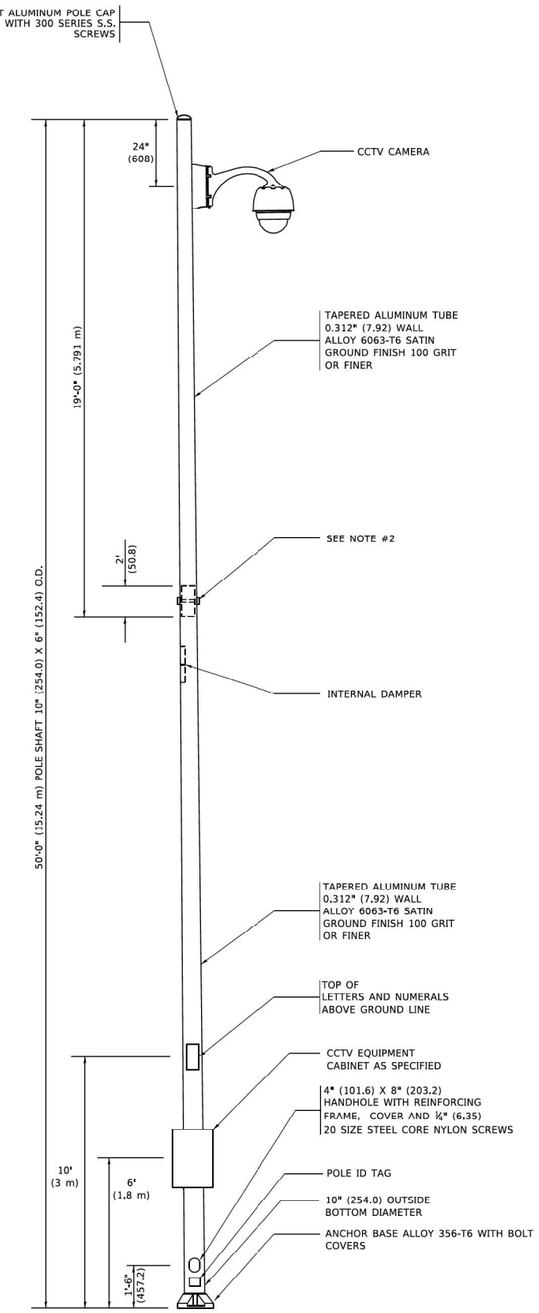
		CONTRACT NO. 62N32		
	ILLINOIS	FED. AID PROJECT		



POSITION OF HANDHOLE AND CAMERA NUMBER FOR POLE MOUNTED ON BRIDGE PARAPET OR BARRIER WALL

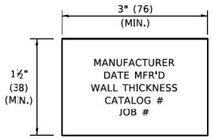


POSITION OF HANDHOLE AND CAMERA NUMBER



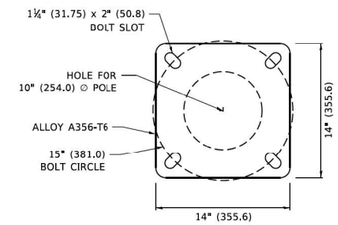
NOTES:

1. ALL DIMENSIONS ARE IN INCHES (MILLIMETERS) UNLESS OTHERWISE SHOWN.
2. TWO PIECE SHAFT WILL BE MATCHED MARKED AND INTERCHANGEABLE BETWEEN DIFFERENT UNITS. FIELD DRILLING OF THE HOLES WILL NOT BE ALLOWED.
3. THE 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. POLES WILL BE INSTALLED IN ACCORDANCE TO MANUFACTURER'S INSTRUCTIONS.
6. POLES WILL BE SET PLUMB ON THE FOUNDATION WITHOUT THE USE OF LEVELING NUTS, WASHERS OR SHIMS.



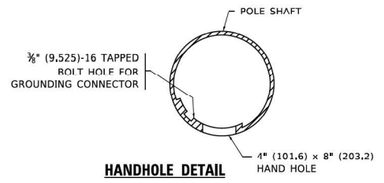
POLE ID TAG

NTS



POLE BASE PLATE DETAIL

15 INCH (381.0) BOLT CIRCLE



HANDHOLE DETAIL

(N.T.S.)

USER NAME = footemj	DESIGNED -	REVISED - R. TOMSONS 09-06-00	**STATE OF ILLINOIS DEPARTMENT OF TRANSPORTATION**
	DRAWN -	REVISED - R. TOMSONS 09-03-03	
PLOT SCALE = 50.0000 ' / in.	CHECKED -	REVISED - R. TOMSONS 02-27-13	
PLOT DATE = 4/22/2019	DATE -	REVISED - R. TOMSONS 05-04-14	

CCTV CAMERA STRUCTURE
50' (15.24 m) MOUNTING HEIGHT

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

F.A. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
	BE-1000	CONTRACT NO.		
	ILLINOIS FED. AID PROJECT			

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PARSONS

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PLOT DATE = 2/23/2024	DATE - 02/23/2024	REVISED -	

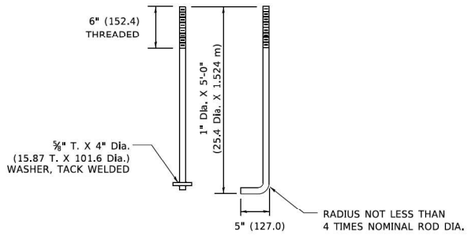
CCTV CAMERA POLE
IL ROUTE 56 / 22ND ST.

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

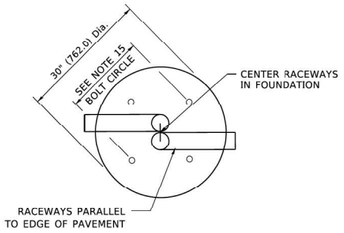
F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
365	2020-265-SUR, SW & TS	DUPAGE/COOK	462	428
		CONTRACT NO. 62N32		
	ILLINOIS FED. AID PROJECT			

CCTV CAMERA POLE FOUNDATION DEPTH TABLE

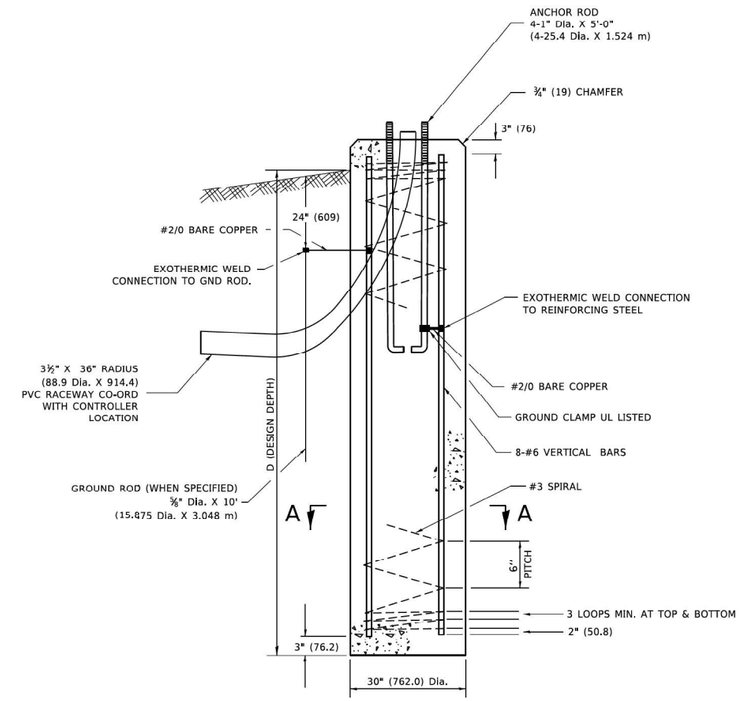
SOIL CONDITIONS	DESIGN DEPTH "D" OF FOUNDATION
SOFT CLAY Qu = 0.375 TON/SQ. FT.	13'-0" (3.96 m)
MEDIUM CLAY Qu = 0.75 TON/SQ.FT	9'-6" (2.09 m)
STIFF CLAY Qu = 1.50 TON/SQ. FT.	7'-0" (2.13 m)
LOOSE SAND } = 34°	9'-0" (2.74 m)
MEDIUM SAND } = 37.5°	8'-3" (2.52 m)
DENSE SAND } = 40°	7'-9" (2.36 m)



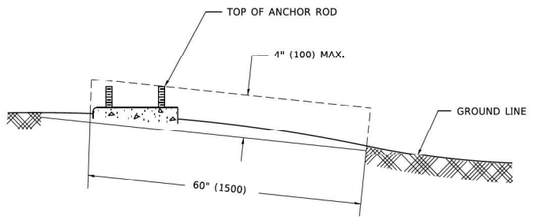
ANCHOR ROD DETAIL



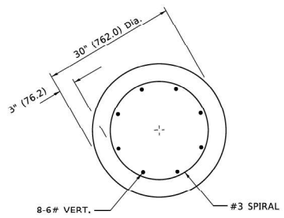
TOP VIEW



FOUNDATION DETAIL



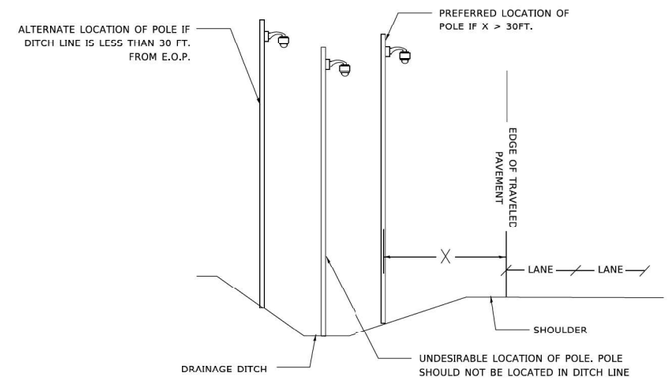
FOUNDATION EXTENSION DETAIL



SECTION A–A

NOTES:

1. ALL DIMENSIONS ARE IN INCHES (MILLIMETERS) UNLESS OTHERWISE SHOWN.
2. THE ANCHOR RODS AND RACEWAYS SHALL BE PROPERLY SECURED IN PLACE BEFORE THE CONCRETE IN PLACED.
3. THE FOUNDATION SHALL NOT PROTRUDE MORE THAN 100MM (4 IN.) ABOVE THE FINISHED GRADE WITHIN A 60 IN. (1.5 m) CHORD ACROSS THE FOUNDATION, WITH ANCHOR RODS INCLUDED, IN ACCORDANCE WITH AASHTO GUIDELINES. IF THE FOUNDATION HEIGHT, INCLUDING ANCHOR RODS, EXTENDS BEYOND THESE SPECIFIED LIMITS, THE FOUNDATION SHALL BE REPLACED AT THE CONTRACTOR'S EXPENSE. SEE FOUNDATION EXTENSION DETAIL.
4. THE HOLE FOR THE FOUNDATION SHALL BE MADE BY DRILLING WITH AN AUGER, OF THE SAME DIAMETER AS THE FOUNDATION. IF SOIL CONDITIONS REQUIRE THE USE OF A LINER TO FORM THE HOLE, THE LINER SHALL BE WITHDRAWN AS THE CONCRETE IS DEPOSITED.
5. THE TOP OF THE FOUNDATION SHALL BE CONSTRUCTED LEVEL. A LINER OR FORM SHALL BE USED TO PRODUCE A UNIFORM SMOOTH SIDE TO THE TOP OF THE FOUNDATION. FOUNDATION TOP SHALL BE CHAMFERED ¾-IN. (20 mm).
6. THE CONCRETE SHALL BE CLASS SI. CONCRETE SHAL. CURE ACCORDING TO ARTICLE 1020.13 BEFORE LIGHT POLES ARE INSTALLED.
7. 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.
8. 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.
9. ANCHOR RODS, NUTS AND WASHERS SHALL BE COMPLETELY GALVANIZED BY EITHER THE HOT-DIPPED PROCESS CONFORMING WITH AASHTO M 232. THE MECHANICAL PLATING METHOD CONFORMING TO AASHTO M 298, CLASS 50 WITH A MAXIMUM COATING THICKNESS OF 150 UM(6 MILS) OR THE ELECTROLYTIC PROCESS ACCORDING TO ASTM F 1136.
10. THE ANCHOR RODS SHALL BE THREADED A MINIMUM OF 6 INCHES (150 mm) WITH A MINIMUM OF 3 INCHES (75 mm) OF THREADED ANCHOR ROD EMBEDDED IN THE FOUNDATION.
11. ANCHOR RODS SHALL PROJECT 2¾" (69.9 mm) ABOVE THE TOP OF THE FOUNDATION. IF BREAKAWAY COUPLINGS ARE SPECIFIED, THE CONTRACTOR SHALL CAREFULLY COORDINATE THE ANCHOR ROD PROJECTION WITH THE INSTALLATION REQUIREMENTS OF THE BREAKAWAY COUPLINGS.
12. THE CONTRACTOR SHALL USE A #3 SPIRAL AT 6" (152.4 mm) PITCH OR MAY SUBSTITUTE #3 TIES AT 12" (304.8 mm) O.C. WITH THE APPROVAL OF THE ENGINEER.
13. THE CABLE TRENCHES AND FOUNDATION SHALL BE BACK FILLED AND COMPACTED AS SPECIFIED BEFORE THE LIGHT POLE IS ERECTED.
14. THE RACEWAYS SHALL PROJECT 1" (25.4 mm) ABOVE THE TOP OF THE FOUNDATION.
15. ANCHOR ROD BOLT CIRCLE TO BE COORDINATED WITH CAMERA STRUCTURE



CAMERA POLE PLACEMENT

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	DRAWN -	REVISED -	
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PLOT DATE = 4/22/2019	DATE - 03-11-13	REVISED -	

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

CCTV CAMERA STRUCTURE FOUNDATION
50' (15 – 24m) MOUNTING HEIGHT

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

F.A. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
	BE-1001	CONTRACT NO.		
	ILLINOIS FED. AID PROJECT			

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PLOT DATE = 2/23/2024	DATE - 02/23/2024	REVISED -	

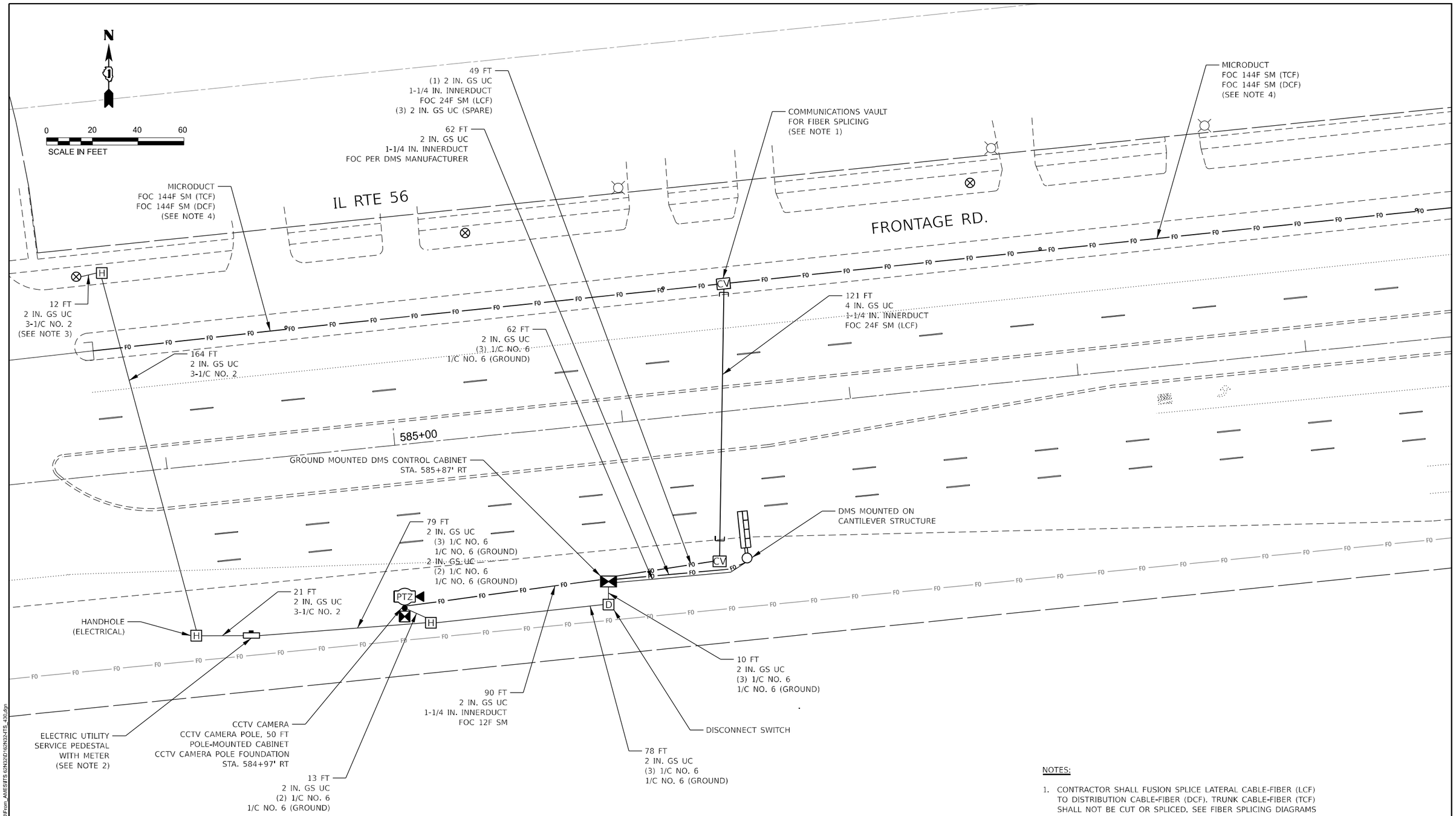
PARSONS

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

CCTV CAMERA POLE FOUNDATION
IL ROUTE 56 / 22ND ST.

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

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
365	2020-265-SUR, SW & TS	DUPAGE/COOK	462	429
		CONTRACT NO. 62N32		
	ILLINOIS FED. AID PROJECT			



NOTES:

1. CONTRACTOR SHALL FUSION SPLICE LATERAL CABLE-FIBER (LCF) TO DISTRIBUTION CABLE-FIBER (DCF). TRUNK CABLE-FIBER (TCF) SHALL NOT BE CUT OR SPLICED. SEE FIBER SPLICING DIAGRAMS FOR FURTHER DETAILS.
2. FINAL SERVICE LOCATION TO BE DETERMINED IN THE FIELD IN COORDINATION WITH COMED WITH FINAL QUANTITIES MEASURED ACCORDINGLY.
3. ELECTRIC CABLE SLACK SHALL BE INCLUDED FOR SERVICE CONNECTION IN COORDINATION WITH COMED.
4. SEE PROPOSED FIBER ROUTE PLANS FOR ADDITIONAL INFORMATION ON THE PROPOSED TRUNK AND DISTRIBUTION FIBER OPTIC CABLES.

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PARSONS

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	DRAWN - MT	REVISED -		
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PLOT DATE = 2/23/2024	DATE - 02/23/2024	REVISED -		

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
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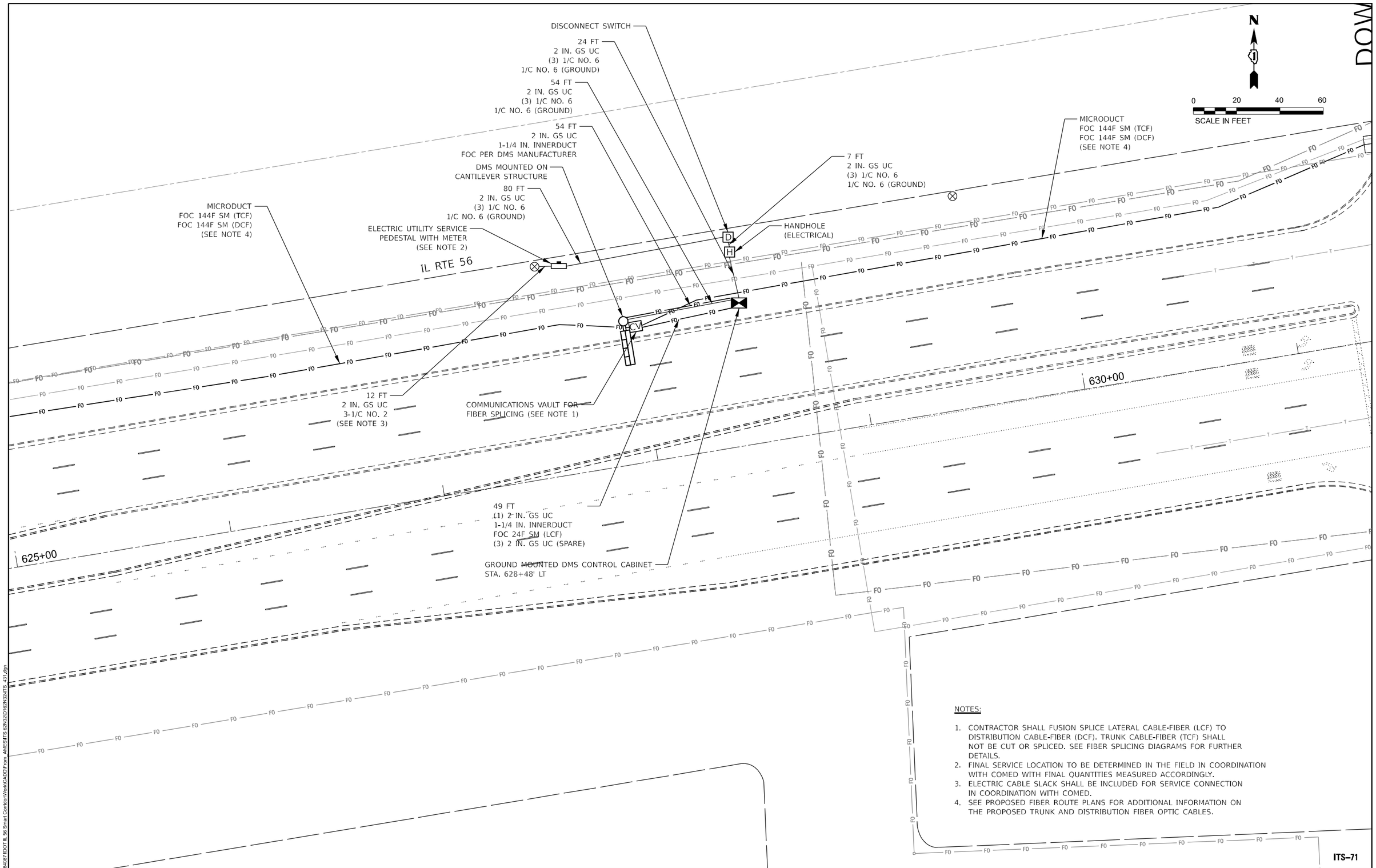
		CONTRACT NO. 62N32		
	ILLINOIS FED. AID PROJECT			



NOTES:

1. CONTRACTOR SHALL FUSION SPLICE LATERAL CABLE-FIBER (LCF) TO DISTRIBUTION CABLE-FIBER (DCF). TRUNK CABLE-FIBER (TCF) SHALL NOT BE CUT OR SPLICED. SEE FIBER SPLICING DIAGRAMS FOR FURTHER DETAILS.
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3. ELECTRIC CABLE SLACK SHALL BE INCLUDED FOR SERVICE CONNECTION IN COORDINATION WITH COMED.
4. SEE PROPOSED FIBER ROUTE PLANS FOR ADDITIONAL INFORMATION ON THE PROPOSED TRUNK AND DISTRIBUTION FIBER OPTIC CABLES.

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PARSONS

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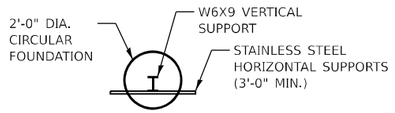
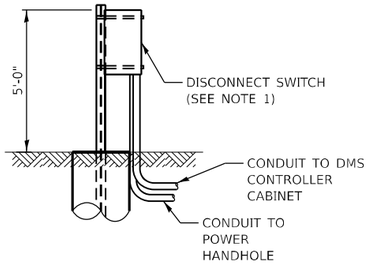
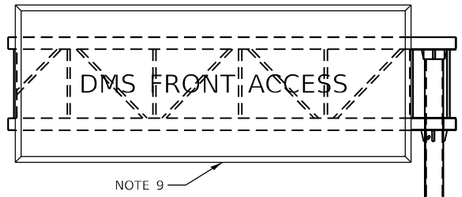
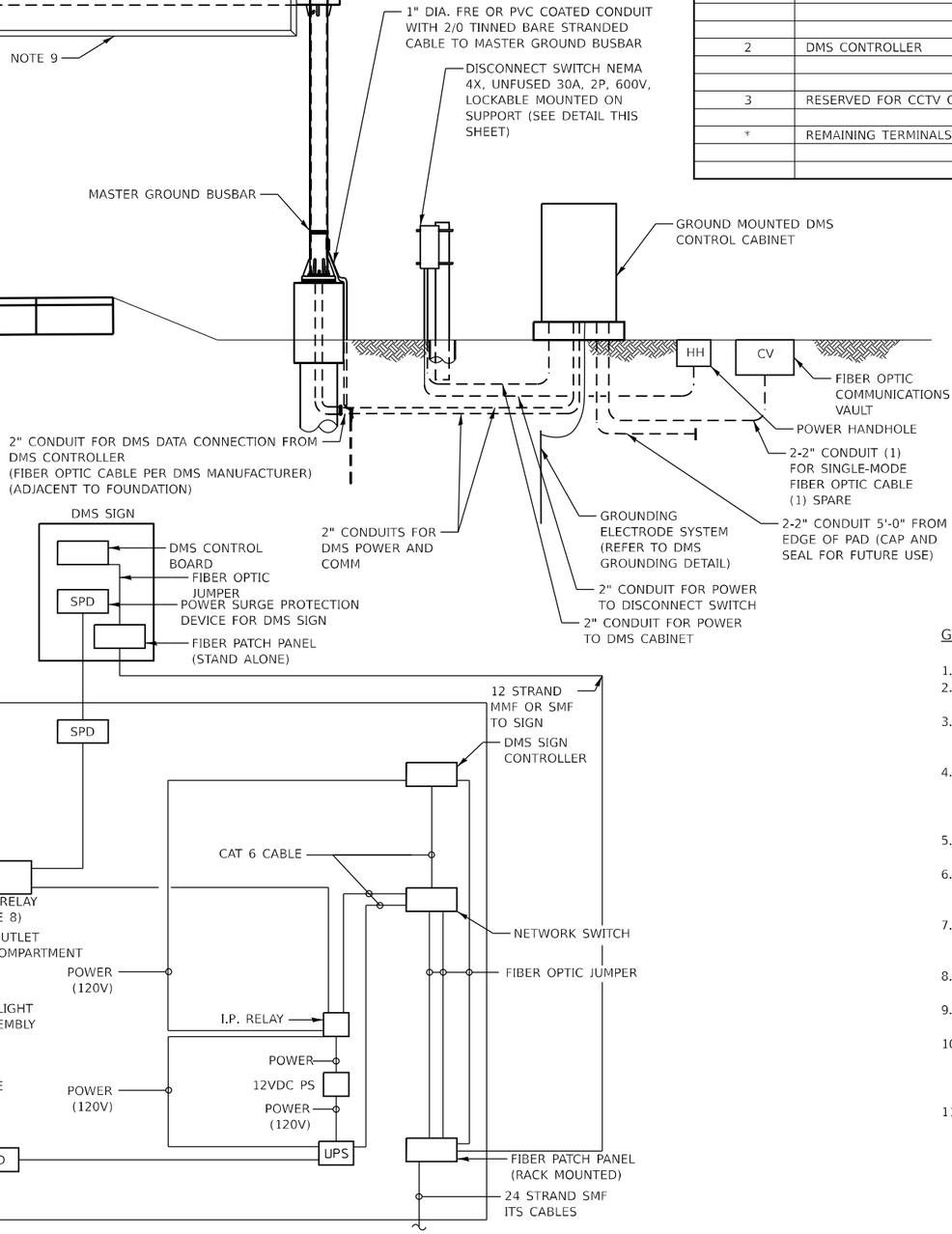
	ILLINOIS	FED. AID PROJECT		





30A-2P NEMA 4X
DISCONNECT MOUNTED
ON SUPPORT DETAIL
(NOT TO SCALE)





POWER WIRING SCHEMATIC FOR 100A PANEL,
120 / 240V LOAD CENTER OF DMS CABINET
(NOT TO SCALE)

COMMUNICATION RISER
(NOT TO SCALE)

DMS CABINET - IP RELAY WIRING TABLE

DESCRIPTION		CONNECTION FROM		CONNECTION TO	
IP TERMINAL	IP TERMINAL ASSIGNMENT	DEVICE	CONNECTION	DEVICE	CONNECTION
1	DMS LOAD SHEDDING RELAY	IP_RELAY	12VDC (+)	CB	CB1A
	CB	CB1B	IP_RELAY	3 COMM	
		IP_RELAY	3 NC	LOAD SHED RELAY	COIL (+)
		SPLICE BLOCK	120 V	IP_RELAY	NC
2	DMS CONTROLLER	IP_RELAY	4 NC	POWER OUTLET #1	HOT
				(COMMUNICATION)	
3	RESERVED FOR CCTV CAMERA				
*	REMAINING TERMINALS - OPEN				

GENERAL NOTES:

1. FURNISH AND INSTALL SERVICE DISCONNECT ON W6X9 SUPPORT.
2. THIS IS A DIAGRAMMATIC SCHEMATIC. ALL BREAKERS AND LOAD CENTERS SHALL BE SIZED AND WIRED AS PER MANUFACTURER RECOMMENDATIONS.
3. ENTIRE COMPLETED SYSTEM SHALL BE GROUNDED AND BONDED IN ACCORDANCE WITH MOTOROLA R56 MANUAL AND THE APPLICABLE ARTICLES OF SECTION 250 OF THE NATIONAL ELECTRICAL CODE.
4. ALL UNDERGROUND CONDUITS SHALL BE COILABLE NON-METALLIC CONDUIT (CNC) AND ABOVE GRADE CONDUITS SHALL BE PVC-COATED RIGID GALVANIZED STEEL (PRGS) UNLESS OTHERWISE INDICATED ON THE PLANS. COUPLERS SHALL BE USED WHEN TRANSITIONING FROM CNC TO PRGS.
5. MOUNT CLAMPS ON 5'-0" ON CENTER MOUNTING. HARDWARE SHALL BE USED AS PER CONDUIT MANUFACTURER RECOMMENDATION.
6. CONTRACTOR SHALL SUPPLY AND INSTALL CABLE REDUCER LUGS WHERE SIZE OF CABLE ENTERING THE DISCONNECT IS MORE THAN RECOMMENDED SIZE DUE TO VOLTAGE DROP.
7. CONTRACTOR SHALL WIRE THE DMS CABINET AS PER MANUFACTURER RECOMMENDATIONS AND INDUSTRY STANDARDS, USING THIS SCHEMATIC AS GUIDANCE ONLY.
8. THE COM (COMMON) CONTACT AND NC (NORMALLY CLOSED) CONTACT ON RELAY CONTACTS OF DIN RELAY SHALL FOLLOW THE TABLE ABOVE.
9. REFER TO STRUCTURAL PLAN SHEETS FOR OVERHEAD SIGN STRUCTURE CANTILEVER TYPE STRUCTURE DETAILS.
10. TRANSFORMER SHALL BE FURNISHED BY UTILITY COMPANY. FOUNDATION AND TRANSFORMER GROUNDING BY CONTRACTOR SHALL BE IN ACCORDANCE WITH UTILITY COMPANY REQUIREMENTS AND MUST BE TIED INTO DMS SITE GROUNDING ELECTRODE SYSTEM.
11. FIBER PATCH PANEL IN DMS SIGN HOUSING SHALL BE A FACTORY TERMINATED UNIT WITH A 12-STRAND PIGTAIL CONNECTING TO RACK MOUNTED FIBER PATCH PANEL IN DMS CONTROLLER CABINET.

MODEL: M-ITS-1103
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PARSONS

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	DRAWN - MT	REVISED -	
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PLOT DATE = 2/23/2024	DATE - 02/23/2024	REVISED -	

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

DMS CABINET POWER
IL ROUTE 56 / 22ND ST.

SCALE: N.T.S. | SHEET 1 OF SHEETS | STA. | TO STA.

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
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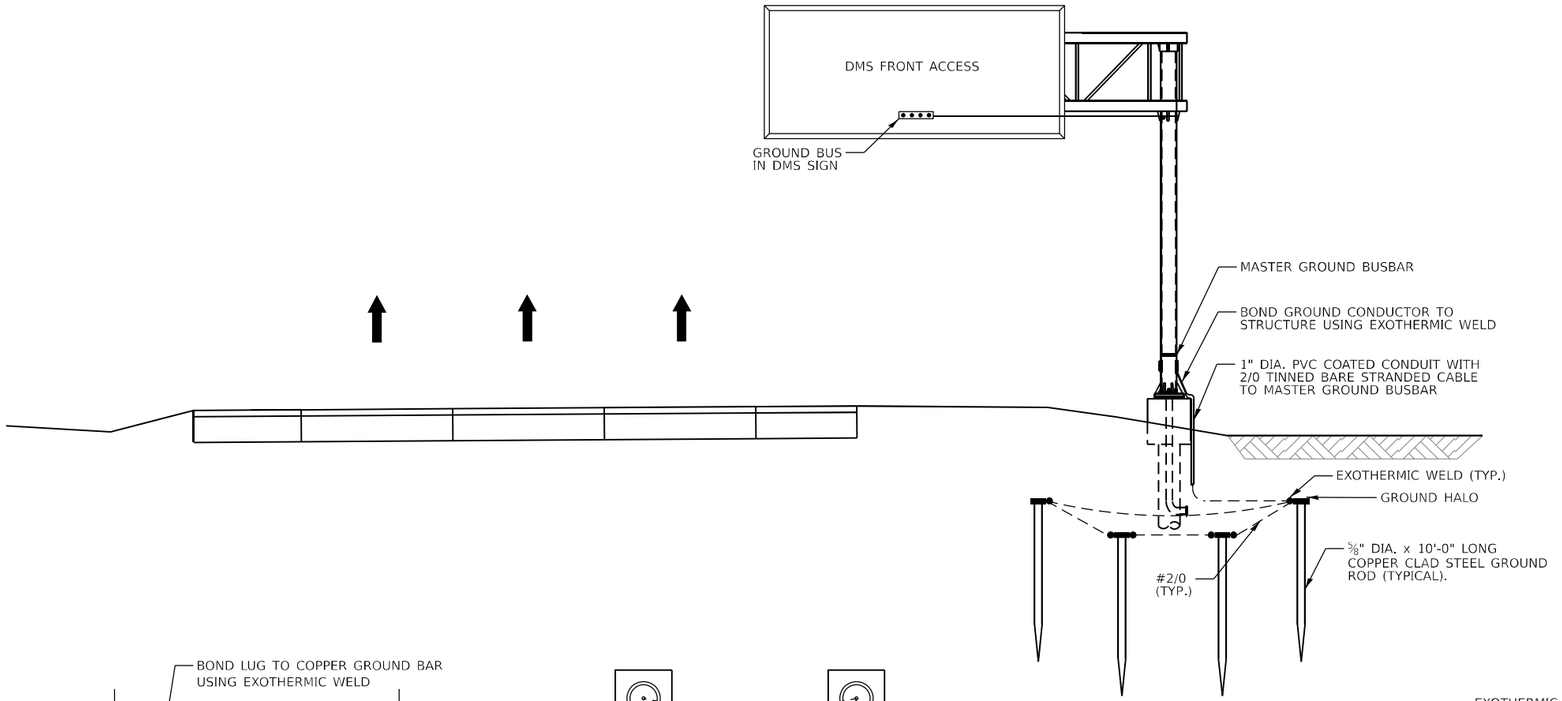
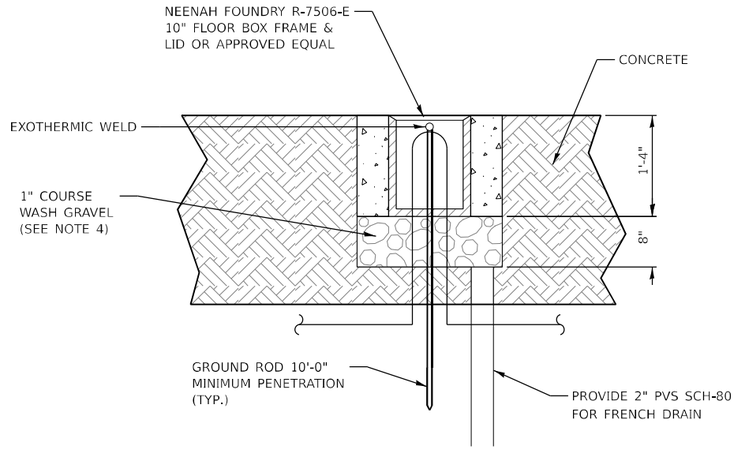
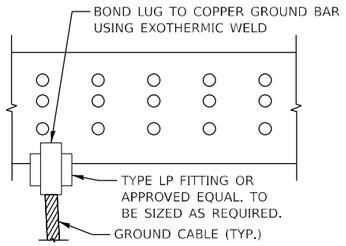
		CONTRACT NO. 62N32		
		ILLINOIS	FED. AID PROJECT	

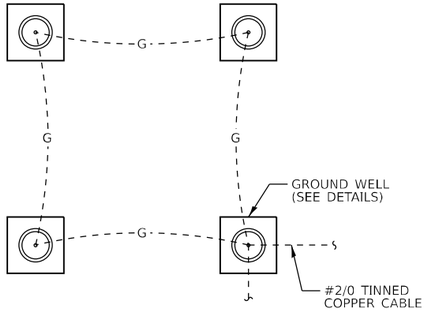




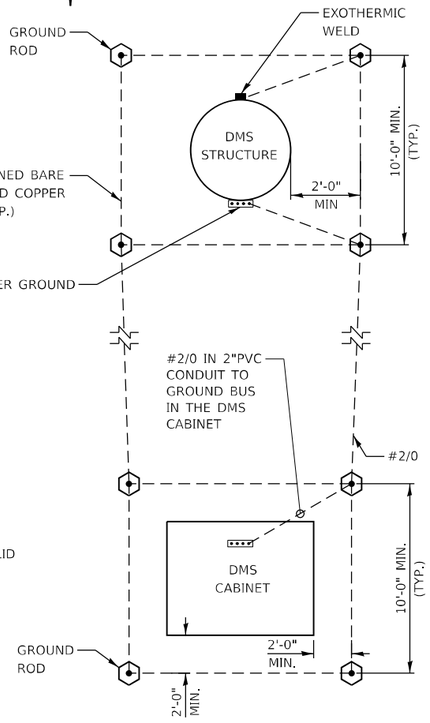
GROUND WELL ELEVATION DETAIL
N.T.S.



MASTER GROUND BUS
BAR CONNECTION DETAIL
N.T.S.



GROUND HALO DETAIL
N.T.S.



GROUNDING SCHEMATIC
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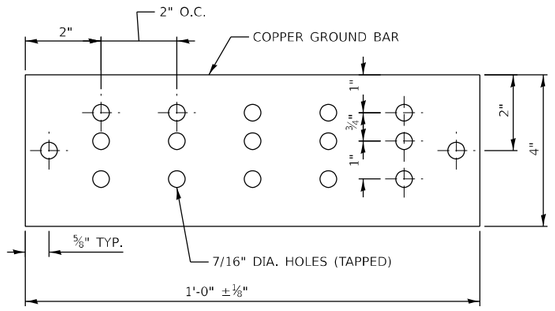
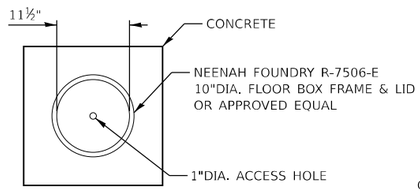


MASTER GROUND BUS BAR
SUPPORT SPACING DETAIL
N.T.S.



GROUND WELL PLAN DETAIL
N.T.S.

NOTES:

1. GROUNDING SYSTEM SHALL BE PLACED WITHIN IDOT RIGHT-OF-WAY.
2. GROUND MOUNTED CONTROL CABINET SHALL BE PLACED UP STREAM OF THE STRUCTURE AT THE LOCATION SHOWN ON THE PLAN VIEW.
3. INSTALL MARKER TAPE DIRECTLY ABOVE GROUNDING ELECTRODES AND CONDUCTORS.
4. CA-11, A QUALITY, IN ACCORDANCE WITH SSRBC 1004.
5. QUANTITY OF GROUND RODS CONNECTED TO GROUNDING ELECTRODE CONDUCTOR SHALL BE ADJUSTED AS REQUIRED UNTIL RESISTANCE TO GROUND IS 5 OHMS OR LESS. FOR DEVICE AND POWER SERVICE LOCATIONS. IF ADDITIONAL GROUND ROD ELECTRODES ARE REQUIRED IN ORDER TO ACHIEVE REQUIRED RESISTANCE THEY SHALL RADIATE OUT FROM EXISTING GROUND ROD ELECTRODES. THESE SHALL BE CONNECTED WITH #2/0 TINNED BARE STRANDED CONDUCTOR, AND SHALL BE 20' FROM CONNECTED GROUND ROD. ALL COMMUNICATION EQUIPMENT GROUNDING SITES SHALL BE TESTED FOR RESISTANCE TO GROUND USING THE THREE-POINT FALL-OF-POTENTIAL TEST PER ANSI/IEEE STD 81.
6. GROUND RODS SHALL NOT BE ROUTED THROUGH FOUNDATIONS.
7. GROUND RODS SHALL BE INSTALLED IN GROUND WELLS IN FINISHED GRADE.
8. ALL EQUIPMENT GROUNDS SHALL BE PROPERLY CONNECTED TO A CHASSIS: ALL PAINT AND OTHER COATINGS, INCLUDING GALVANIZATION, SHALL BE REMOVED PRIOR TO TERMINATION OF A GROUND, AFTER THE GROUND IS TERMINATED A NON-OXIDIZING COATING SHALL BE PAINTED OVER THE EXPOSED METAL SURFACES.
9. ALL METALLIC MEMBERS OF THE DMS STRUCTURE AND THE DMS SIGN WITHIN 6 FEET OF EACH OTHER SHALL BE BONDED TOGETHER. WELDS SHALL BE CONSIDERED AN ACCEPTABLE BONDING METHOD. U-BOLT CONNECTIONS SHALL NOT BE CONSIDERED AN ACCEPTABLE BONDING METHOD.
10. AT LEAST AN 8 INCH MINIMUM BENDING RADIUS SHALL BE MAINTAINED ON ALL GROUNDING ELECTRODE CONDUCTORS. THE ANGLE OF ANY BENDING SHALL NOT BE LESS THAN 90 DEGREES.
11. GROUNDING CONDUCTORS SHALL ALWAYS ROUTE AS STRAIGHT AS POSSIBLE.
12. THE QUANTITY OF GROUNDING ELECTRODE CONDUCTORS CONNECTED TO A GROUND ROD ELECTRODE SHALL BE LIMITED TO THREE.
13. WHENEVER POSSIBLE, GROUND ROD ELECTRODES SHALL BE INSTALLED NO CLOSER THAN 11' FROM A FOUNDATION.
14. EVERY ELECTRIC CABLE ENTERING OR LEAVING A DMS ENCLOSURE, THE DMS CONTROLLER, OR THE CCTV ELECTRONICS ENCLOSURE SHALL BE PROTECTED WITH A SURGE PROTECTION DEVICE.

MODEL: M-ITS-1105
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PARSONS

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	DRAWN - MT	REVISED -	
PLOT SCALE = $SCALE$	CHECKED - RCB	REVISED -	
PLOT DATE = 2/23/2024	DATE - 02/23/2024	REVISED -	

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

DMS GROUNDING
IL ROUTE 56 / 22ND ST.

SCALE: N.T.S. | SHEET 1 OF SHEETS | STA. | TO STA.

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
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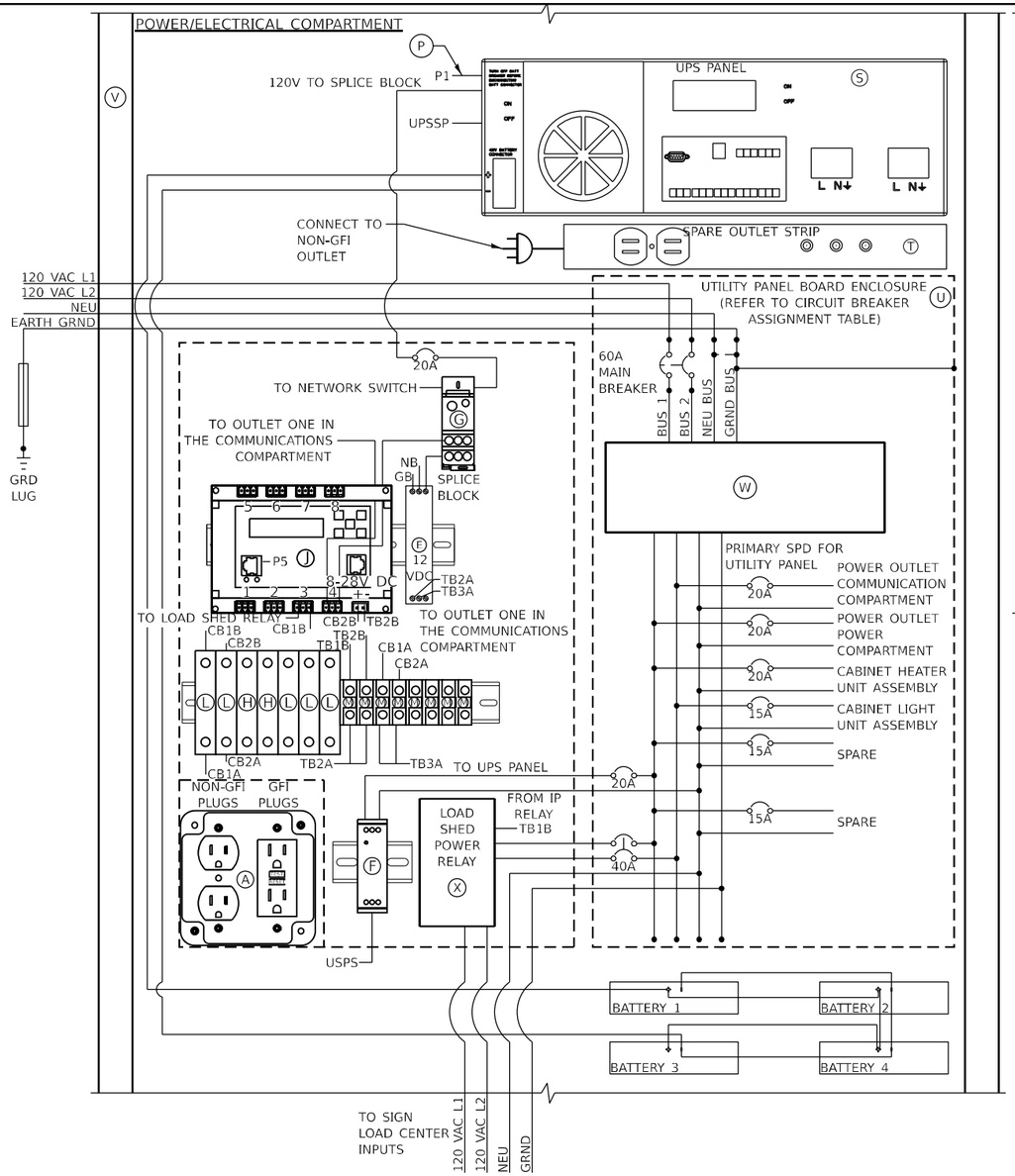
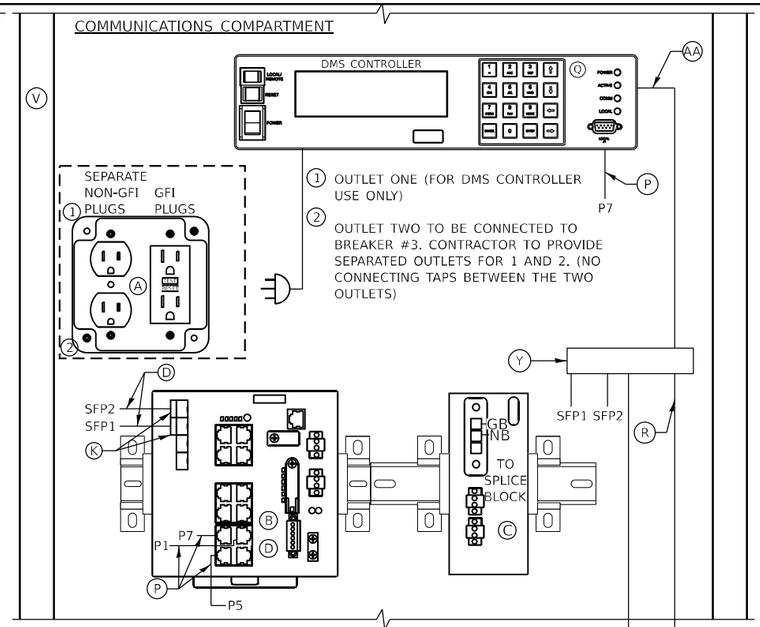
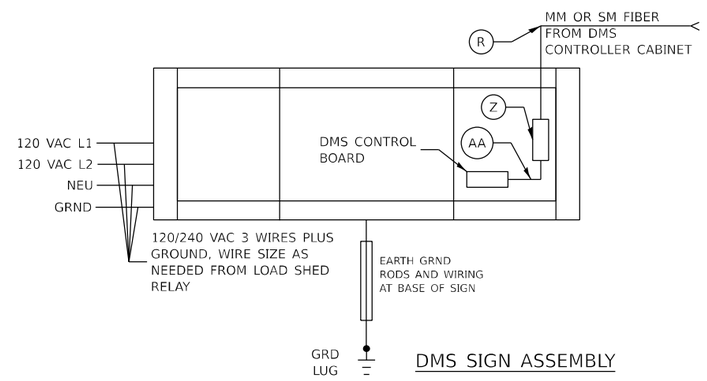
		CONTRACT NO. 62N32		
	ILLINOIS	FED. AID PROJECT		







DMS SIGN ASSEMBLY

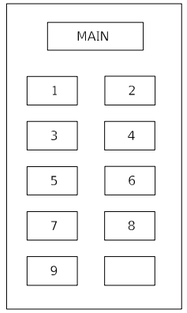
LEGEND:

ITEM	DESCRIPTION
A	TWO DUPLEX 120V RECEPTACLES, ONE GFCI (HUBBELL GFR5362TR) AND ONE STANDARD (HUBBELL BR20WR)
B	NETWORK SWITCH CISCO IE-4000-8T4G-E
C	NETWORK SWITCH POWER SUPPLY, PWR-IE170W-PC-AC=
D	2 METER - SMFO LC-SC DUPLEX JUMPERS, CORNING/047202R5120002M
E	AC/DC POWER SUPPLY, 12VDC, 10 WATTS, MEAN WELL/MDR-10-12
F	120VAC SURGE SUPPRESSOR, MOUNTED ON DIN RAIL COOPER CROUSE HINDS/MA15/D/1/SI OR APPROVED EQUAL
G	SPLICE BLOCK, ALTECH/38041
H	5A CIRCUIT BREAKER, ALLEN BRADLEY/1492-SPM1B050
J	POWER CONTROLLER, 8-CHANNEL DIN ETHERNET RELAY DIGITAL LOGGERS/DIN 4
K	(2) GLC-LX-SM-RGD = 1 GBPS SM SFP MODULES
L	2A CIRCUIT BREAKER, ALLEN BRADLEY/1492-SPM1B020
M	TERMINAL BLOCK, ALLEN BRADLEY/1492-CD8
P	INDOOR/OUTDOOR RATED CAT6 (1000MBS, TEMPERATURE HARDENED) THESE ARE THE CAT6 CABLES ROUTED INSIDE CABINET
Q	DMS CONTROLLER
R	12-STRAND MULTI-MODE OR SINGLE-MODE FIBER OPTIC CABLE
S	UPS PANEL ALPHA TECHNOLOGIES FXM1100 WITH BATTERIES
T	OUTLET STRIP
U	DMS MANUFACTURER UTILITY PANEL ENCLOSURE
V	DMS CONTROL CABINET TYPE 334 NEMA 4X
W	120/240VAC MTL ZONE DEFENDER MODEL ZD16100
X	LOAD SHED POWER RELAY MAGNECRAFT MODEL 199X-12 WITH COVER
Y	RACK MOUNTED FIBER PATCH PANEL
Z	STAND ALONE FIBER PATCH PANEL
AA	2 METER FIBER JUMPER, CORNING (TYPE AND CONNECTION PER DMS MANUFACTURER)

NOTES:

1. FABRICATOR TO PROVIDE CABINET DRAWINGS SUBMITTAL FOR REVIEW AND APPROVAL PRIOR TO FABRICATION.
2. ENTIRE COMPLETED SYSTEM SHALL BE GROUNDED AND BONDED IN ACCORDANCE WITH MOTOROLA R56 MANUAL AND THE APPLICABLE ARTICLES OF SECTION 250 OF THE NATIONAL ELECTRICAL CODE.
3. DMS CONTROLLER SHOWN REPRESENTS A GENERIC DMS CONTROLLER. DMS CONTROLLERS ARE SUPPLIED BY THE DMS MANUFACTURER AND THEREFORE THE FRONT PANEL MAY DIFFER.
4. REFERENCED PRODUCT MODELS MAY BE SUBSTITUTED WITH APPROVED EQUIVALENTS THAT ARE FULLY INTEROPERABLE WITH ALL DMS SYSTEM COMPONENTS.

CIRCUIT BREAKER ASSIGNMENT TABLE
(SEE UTILITY PANEL BOARD CIRCUIT BREAKER LOCATIONS)



CIRCUIT BREAKER DESCRIPTION	AMPS	CIRCUIT BREAKER LOCATION
POWER OUTLET POWER COMPARTMENT	20	1
CABINET HEATER UNIT ASSEMBLY	20	2
POWER OUTLET COMMUNICATION COMPARTMENT	20	3
CABINET LIGHT UNIT ASSEMBLY	15	4
LOAD SHED RELAY	40	5
		7
UPS PANEL	20	6
NOT USED	15	8
NOT USED	15	9

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PARSONS

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	DRAWN - MT	REVISED -	
PLOT SCALE = $$SCALE$	CHECKED - RCB	REVISED -	
PLOT DATE = 2/23/2024	DATE - 02/23/2024	REVISED -	

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

DMS CABINET COMMUNICATIONS/FOUNDATION (1 OF 2)
IL ROUTE 56 / 22ND ST.

SCALE: N.T.S. | SHEET 1 OF SHEETS | STA. | TO STA.

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
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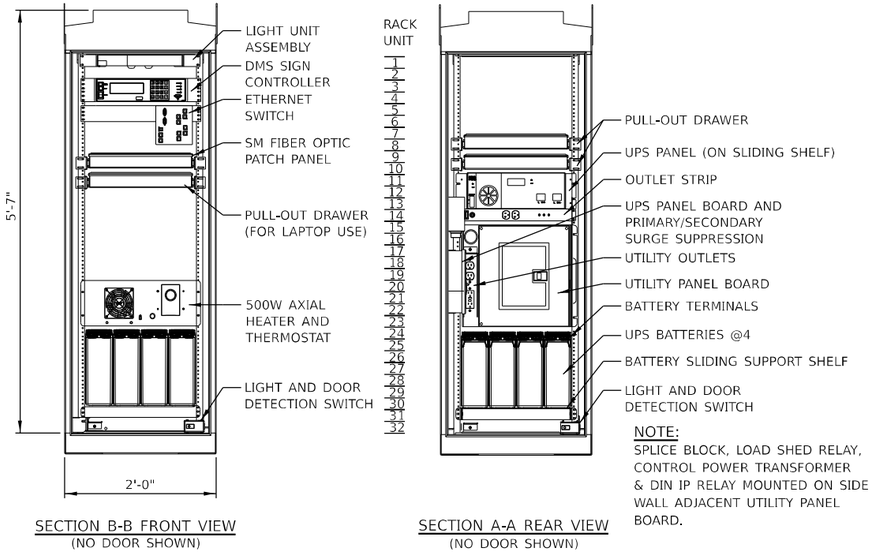
		CONTRACT NO. 62N32		
		ILLINOIS	FED. AID PROJECT	

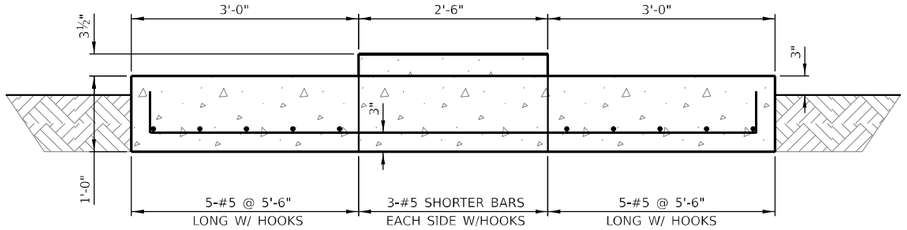


SECTION B-B FRONT VIEW
(NO DOOR SHOWN)

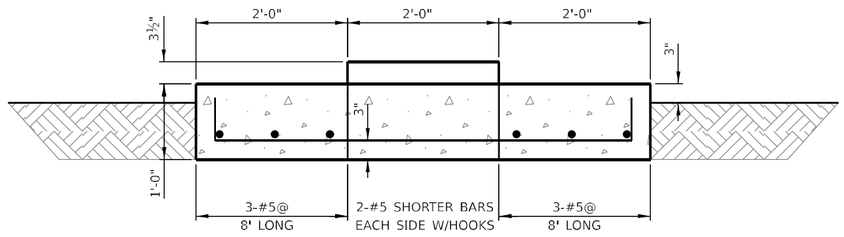
SECTION A-A REAR VIEW
(NO DOOR SHOWN)

NOTE:
SPLICE BLOCK, LOAD SHED RELAY, CONTROL POWER TRANSFORMER & DIN IP RELAY MOUNTED ON SIDE WALL ADJACENT UTILITY PANEL BOARD.

TYPE 334 DMS CABINET LAYOUT DETAILS



SECTION E-E

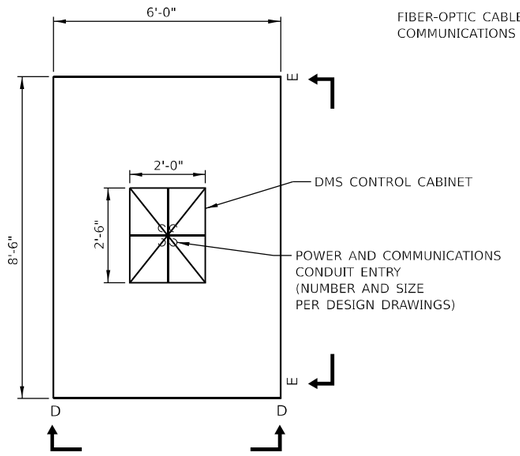


SECTION D-D
NOT TO SCALE

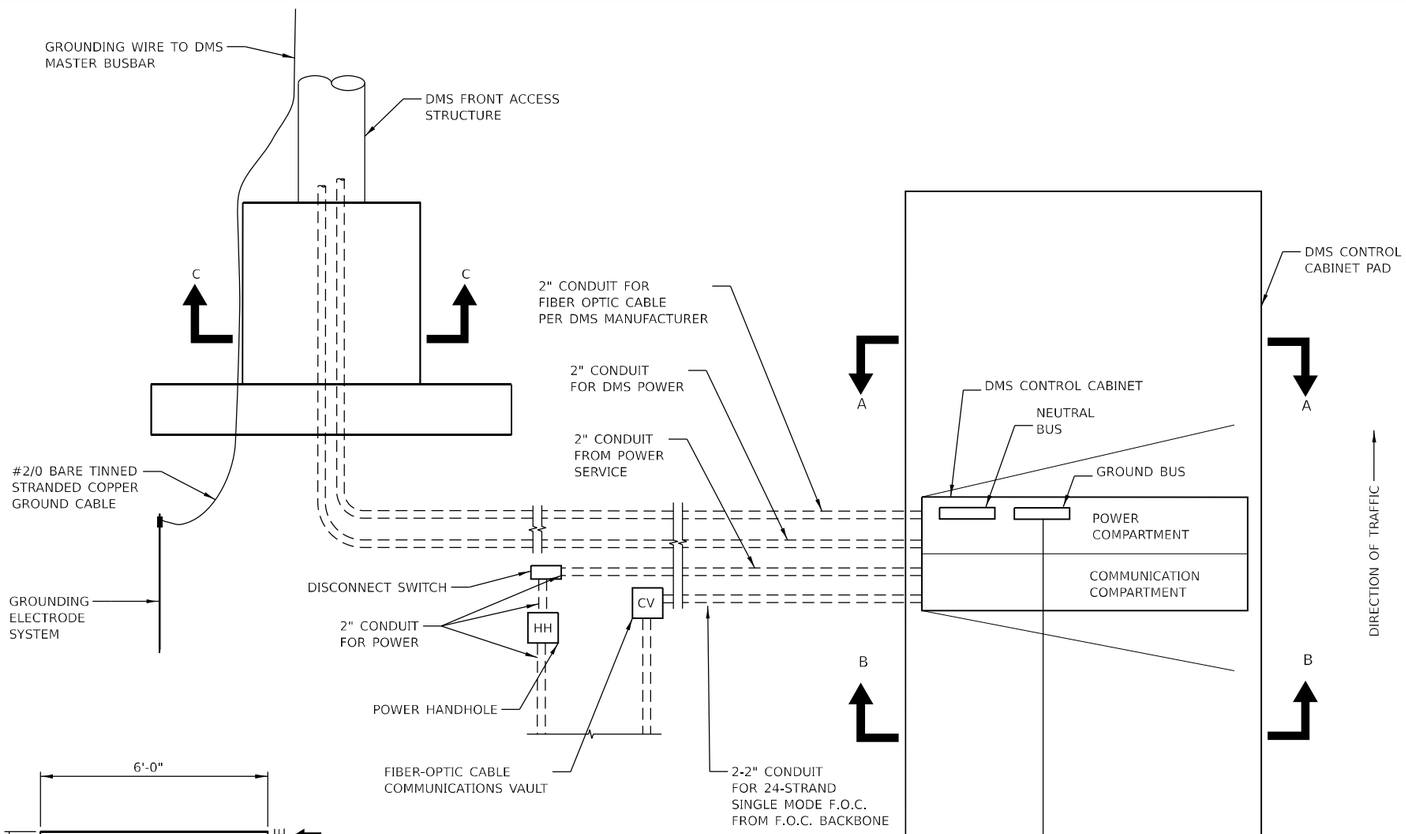
DMS CONTROL CABINET FOUNDATION DETAILS

DMS CABINET FOUNDATION NOTES:

1. COORDINATE SIZE OF OPENING WITH DMS CONTROLLER CABINET BOTTOM CONDUIT CUT-OUTS
2. CONCRETE = 4,000 PSI (MIN.)
3. REBAR EPOXY COATED FY=60,000 PSI (MIN.)
4. PROVIDE SHOP DRAWINGS PRIOR TO CONSTRUCTION
5. INCLUDE CONDUITS



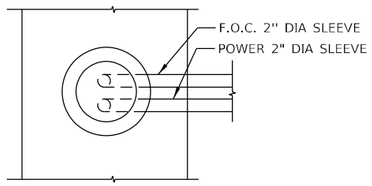
PLAN



PLAN/ELEVATION

DMS CABINET NOTES:

1. PAD MOUNT CONFIGURATION
2. 0.125" ALUMINUM 5052-H34 CONSTRUCTION WITH CONTINUOUSLY WELDED EXTERNAL SEAMS
3. THREE POINT LATCH WITH SST HANDLE
4. DOUBLE FLANGED DOOR SEAL WITH 1#2" X 2" CLOSED CELL NEOPRENE GASKET WITH CORBIN #2 LOCK ON EACH DOOR.
5. FULL LENGTH EIA GAGE FOR 19" EQUIPMENT
6. ADJUSTABLE PULL OUT DRAWER
7. DOOR OPENING: 21.50" X 54.75"
8. FULL LENGTH STAINLESS STEEL HINGE
9. ALL STAINLESS STEEL HARDWARE
10. CORBIN #2 LOCK
11. NEMA 4X ENCLOSURE
12. SHIPPED ON WOOD PALLET
13. MOUNT LAYER 2 ETHERNET SWITCH (DIN-RAIL MOUNT) USING DIN-RAIL MOUNT
14. BATTERIES AND UPS SHALL BE PLACED ON A SLIDING SHELF
15. CABINET DIMENSION 24"X30"X67"



SECTION C-C
POWER AND F.O.C WITHIN DMS FOUNDATION

ITS-75

PARSONS	USER NAME = $USER$	DESIGNED - YJ	REVISED -	STATE OF ILLINOIS DEPARTMENT OF TRANSPORTATION	DMS CABINET COMMUNICATIONS/FOUNDATION (2 OF 2) IL ROUTE 56 / 22ND ST.
		DRAWN - MT	REVISED -		
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	PLOT DATE = 2/23/2024	DATE - 02/23/2024	REVISED -		

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
365	2020-265-SUR, SW & TS	DUPAGE/COOK	462	435
		CONTRACT NO. 62N32		
		ILLINOIS	FED. AID PROJECT	

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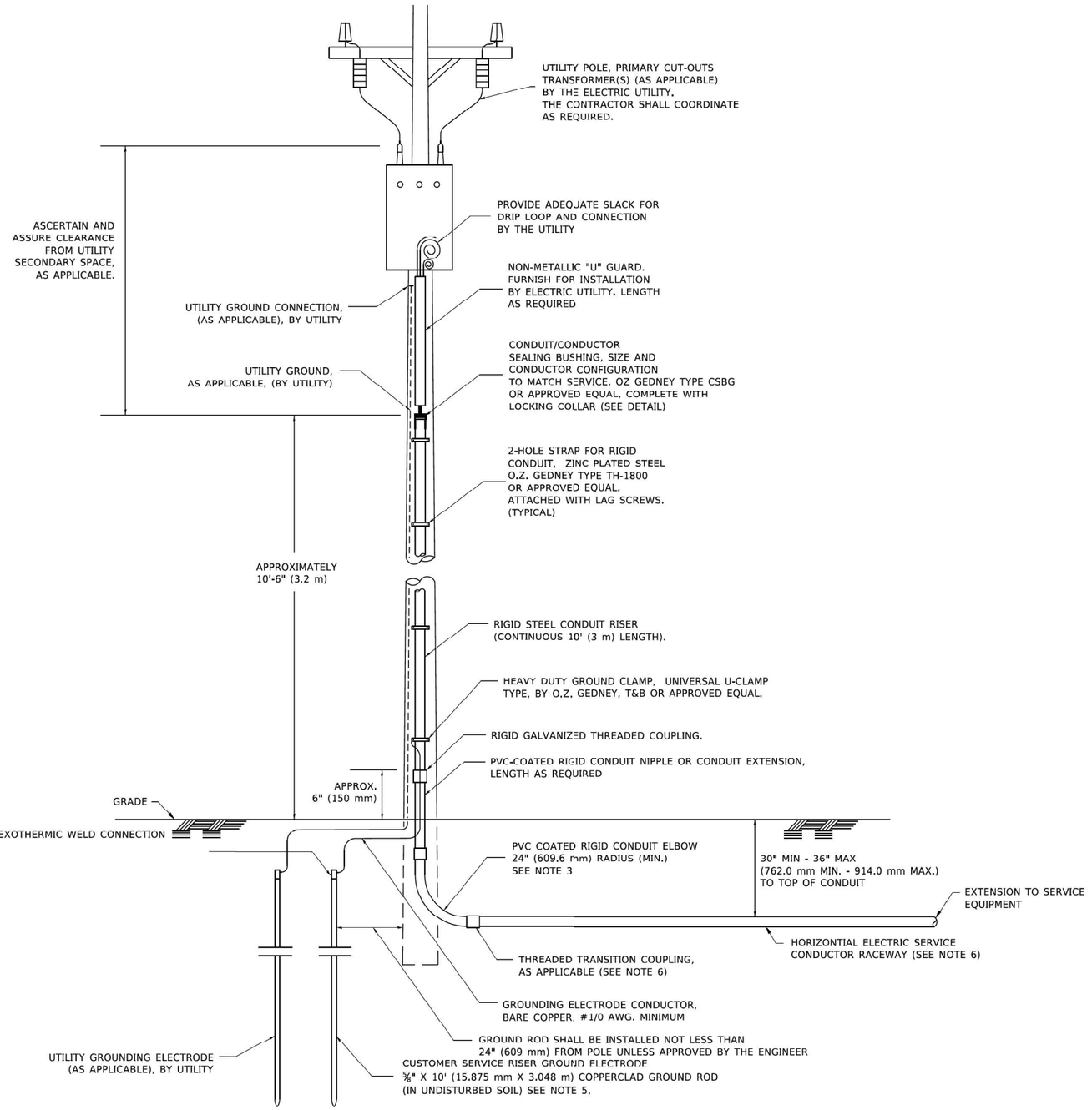
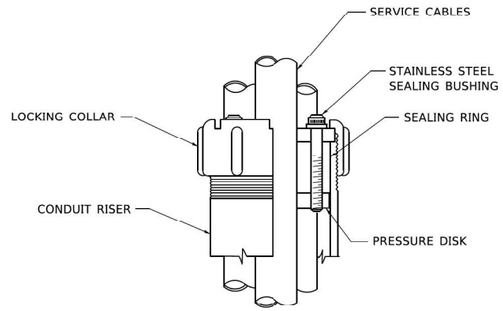


APPLICATION

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.



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

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

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.		
	ILLINOIS	FED. AID PROJECT		

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ITS-76

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STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

DMS ELECTRIC SERVICE
IL ROUTE 56 / 22ND ST.

SCALE: N.T.S. | SHEET 1 OF 1 SHEETS | STA. | TO STA.

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
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		CONTRACT NO. 62N32		
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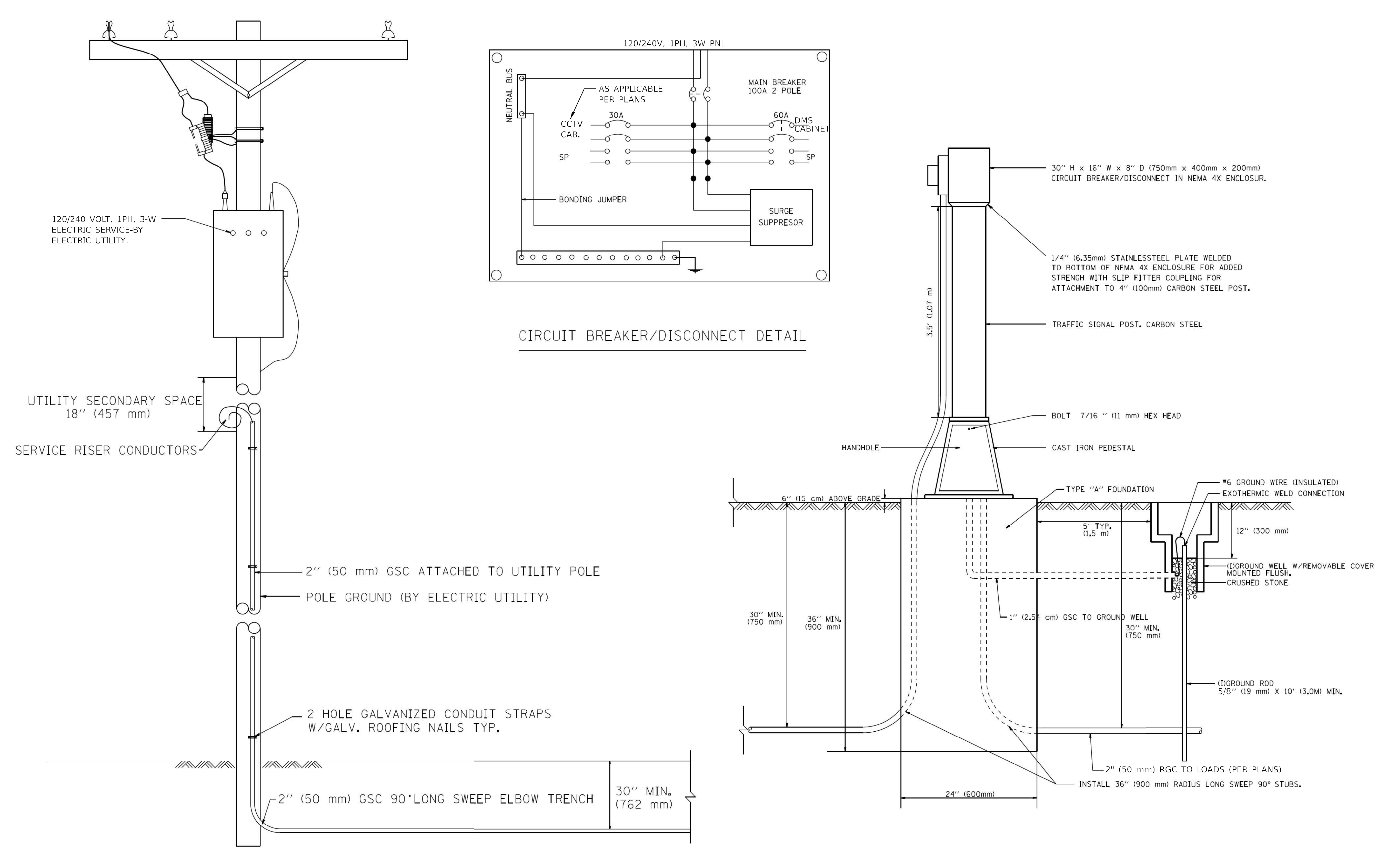

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	DRAWN - G.M.	REVISED -	**DEPARTMENT OF TRANSPORTATION**		CONTRACT NO.
PLOT SCALE = 100.0000 ' / in.	CHECKED - R.L.	REVISED -	TRAFFIC SYSTEMS CENTER	SCALE: NONE SHEET OF SHEETS STA. TO STA.	FED. ROAD DIST. NO. ILLINOIS FED. AID PROJECT
PLOT DATE = 11/8/2018	DATE - 08/26/2010	REVISED -			

TRAFFIC SYSTEMS CENTER (TY-1TSC-400#62) ITS-77

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PARSONS	USER NAME = $USER$	DESIGNED - YJ	REVISED -	STATE OF ILLINOIS	DMS ELECTRIC METER	F.A.P. RTE.: 365
		DRAWN - MT	REVISED -	DEPARTMENT OF TRANSPORTATION	IL ROUTE 56 / 22ND ST.	SECTION: 2020-265-SUR, SW & TS
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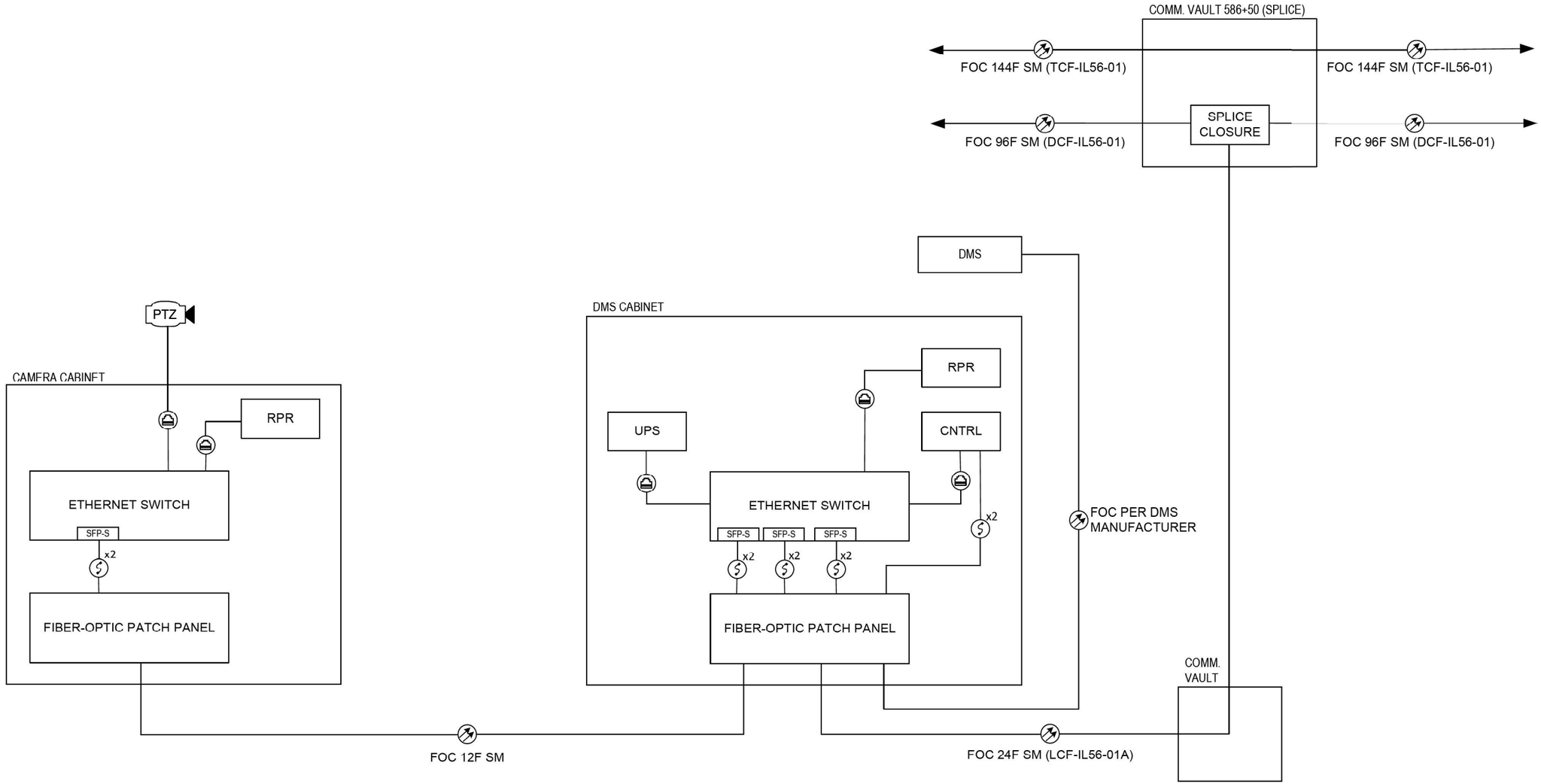


LEGEND

PROPOSED

	FIBER OPTIC CABLE (FOC)
	CAT 6 CABLE
	FIBER OPTIC PATCH CABLE
SFP-S	FIBER OPTIC TRANSCEIVER – SINGLE MODE
DMS	DYNAMIC MESSAGE SIGN (DMS)
CNTRL	DMS CONTROLLER
PTZ	CCTV CAMERA, PAN-TILT-ZOOM
RPR	REMOTE POWER RELAY
UPS	UNINTERRUPTIBLE POWER SUPPLY

NOTES:

1. DISTRIBUTION CABLE-FIBER (DCF) TUBES CONTAINING UNUSED FIBER STRANDS SHALL REMAIN UNCUT UNLESS OTHERWISE DIRECTED BY THE ENGINEER.
2. TRUNK CABLE-FIBER (TCF) SHALL HAVE SLACK STORED WITHIN THE SPLICE COMMUNICATIONS VAULT AND SHALL PASS THROUGH UNCUT.
3. POWER TO CAMERA AND DMS CONTROLLER SHALL BE WIRED THROUGH REMOTE POWER RELAY TO ENABLE POWER CYCLING OVER THE NETWORK.

MODEL: Default
FILE NAME: Z:\98k087 IDOT IL 56 Smart Corridor\Work\CADD\From_AMES\ITS i02N32\D162N32-ITS_438.dgn

PARSONS

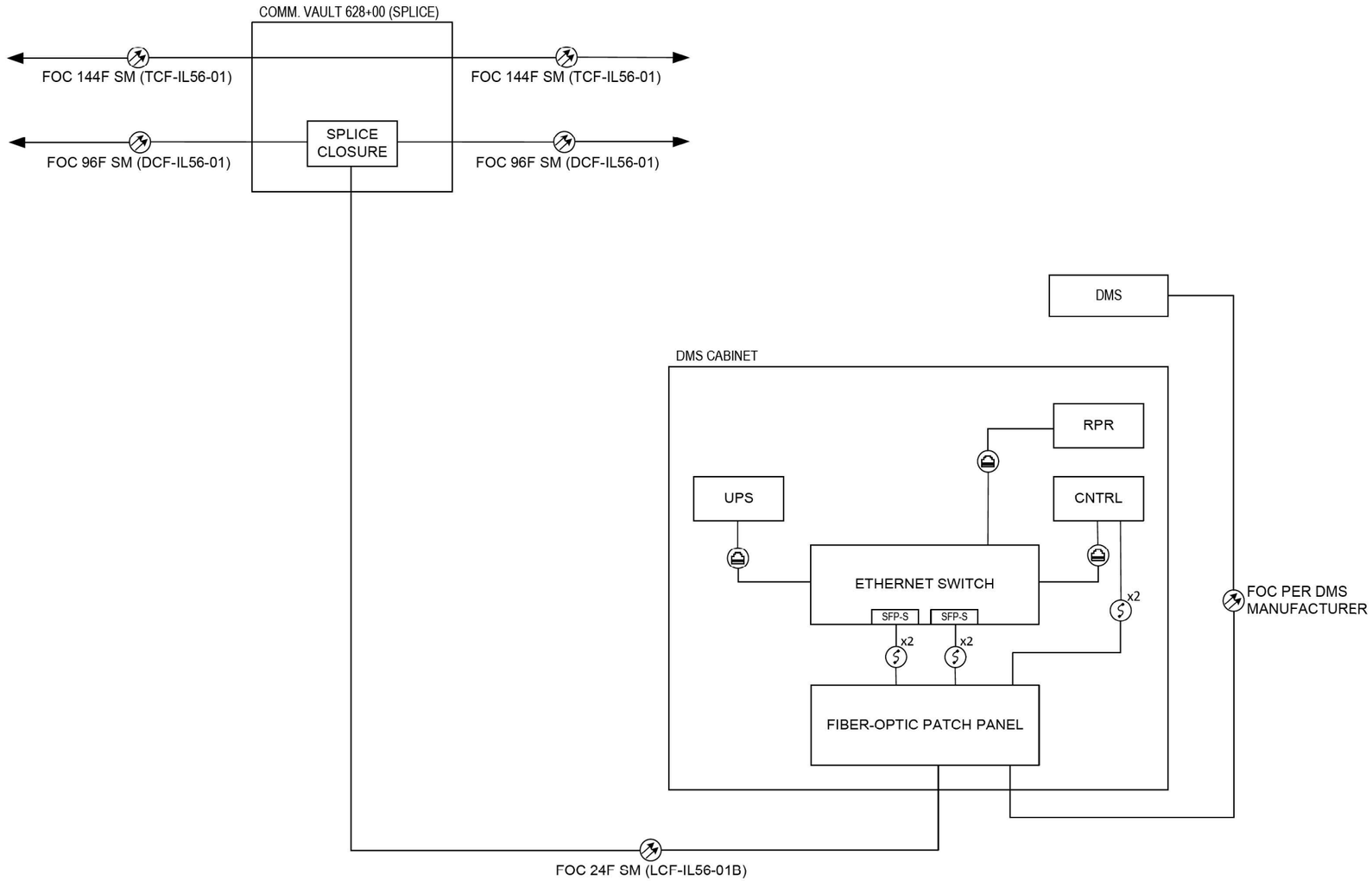
USER NAME = $USER$	DESIGNED - YJ	REVISED -	
	DRAWN - MT	REVISED -	
PLOT SCALE = $SCALE$	CHECKED - RCB	REVISED -	
PLOT DATE = 2/23/2024	DATE - 02/23/2024	REVISED -	

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

DMS COMMUNICATIONS SINGLE LINE DIAGRAM
IL ROUTE 56 / 22ND ST. EASTBOUND DMS 2

SCALE: N.T.S. | SHEET 1 OF 1 SHEETS | STA. | TO STA.

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
365	2020-265-SUR, SW & TS	DUPAGE/COOK	462	438
		CONTRACT NO. 62N32		
		ILLINOIS	FED. AID PROJECT	



LEGEND

PROPOSED

	FIBER OPTIC CABLE (FOC)
	CAT 6 CABLE
	FIBER OPTIC PATCH CABLE
SFP-S	FIBER OPTIC TRANSCEIVER – SINGLE MODE
DMS	DYNAMIC MESSAGE SIGN (DMS)
CNTRL	DMS CONTROLLER
PTZ	CCTV CAMERA, PAN-TILT-ZOOM
RPR	REMOTE POWER RELAY
UPS	UNINTERRUPTIBLE POWER SUPPLY

NOTES:

1. DISTRIBUTION CABLE-FIBER (DCF) TUBES CONTAINING UNUSED FIBER STRANDS SHALL REMAIN UNCUT UNLESS OTHERWISE DIRECTED BY THE ENGINEER.
2. TRUNK CABLE-FIBER (TCF) SHALL HAVE SLACK STORED WITHIN THE SPLICE COMMUNICATIONS VAULT AND SHALL PASS THROUGH UNCUT.
3. POWER TO DMS CONTROLLER SHALL BE WIRED THROUGH REMOTE POWER RELAY TO ENABLE POWER CYCLING OVER THE NETWORK.

MODEL: Default
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PARSONS

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PLOT SCALE = $SCALE$	CHECKED - RCB	REVISED -	
PLOT DATE = 2/23/2024	DATE - 02/23/2024	REVISED -	

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

DMS COMMUNICATIONS SINGLE LINE DIAGRAM
IL ROUTE 56 / 22ND ST. WESTBOUND DMS 3

SCALE: N.T.S. | SHEET 1 OF 1 SHEETS | STA. | TO STA.

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
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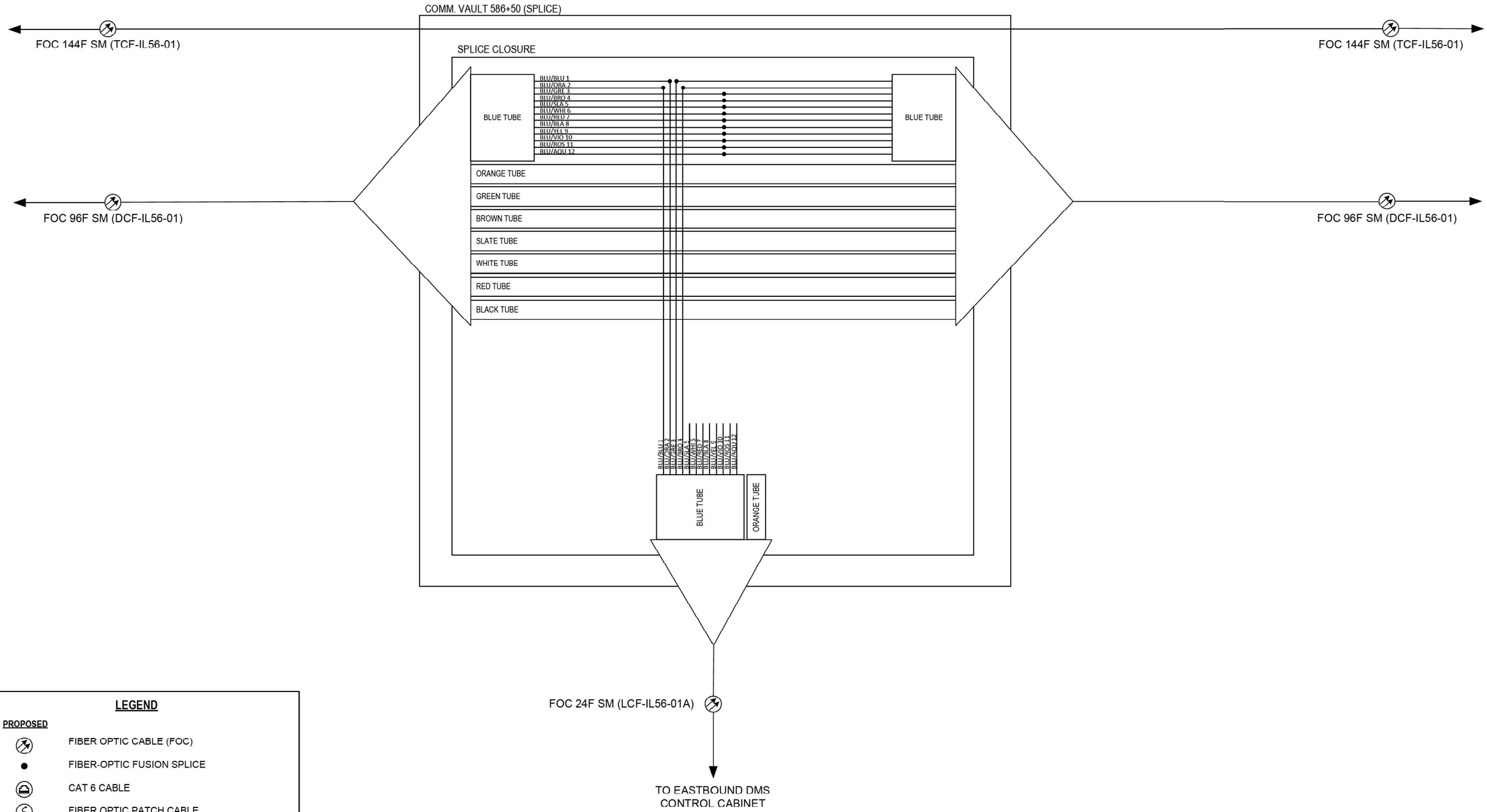
		CONTRACT NO. 62N32		
		ILLINOIS	FED. AID PROJECT	



LEGEND

PROPOSED

- FIBER OPTIC CABLE (FOC)
- FIBER-OPTIC FUSION SPLICE
- CAT 6 CABLE
- FIBER OPTIC PATCH CABLE
- SFP-S — FIBER OPTIC TRANSCEIVER – SINGLE MODE
- DMS — DYNAMIC MESSAGE SIGN (DMS)
- CNTRL — DMS CONTROLLER
- PTZ — CCTV CAMERA, PAN-TILT-ZOOM
- RPR — REMOTE POWER RELAY
- UPS — UNINTERRUPTIBLE POWER SUPPLY

NOTES:

1. DISTRIBUTION CABLE-FIBER (DCF) TUBES CONTAINING UNUSED FIBER STRANDS SHALL REMAIN UNCUT UNLESS OTHERWISE DIRECTED BY THE ENGINEER.
2. TRUNK CABLE-FIBER (TCF) SHALL HAVE SLACK STORED WITHIN THE SPLICE COMMUNICATIONS VAULT AND SHALL PASS THROUGH UNCUT.
3. UNSPLICED FIBER PIGTAILS SHALL BE CAPPED AND COILED WITHIN SPLICE CLOSURE.

ITS–80

PARSONS

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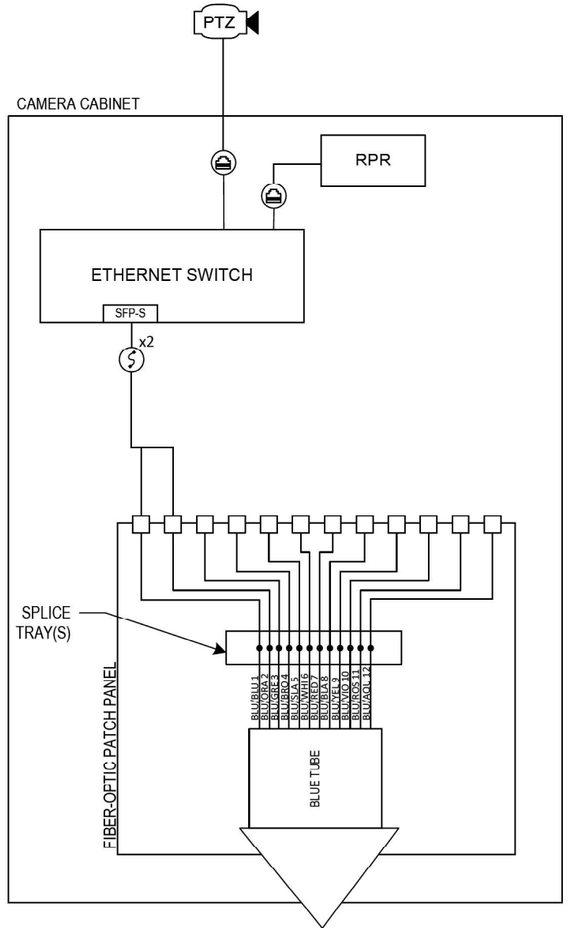
	DRAWN - MT	REVISED -
PLOT SCALE = $SCALES	CHECKED - RCB	REVISED -
PLOT DATE = 2/23/2024	DATE - 02/23/2024	REVISED -

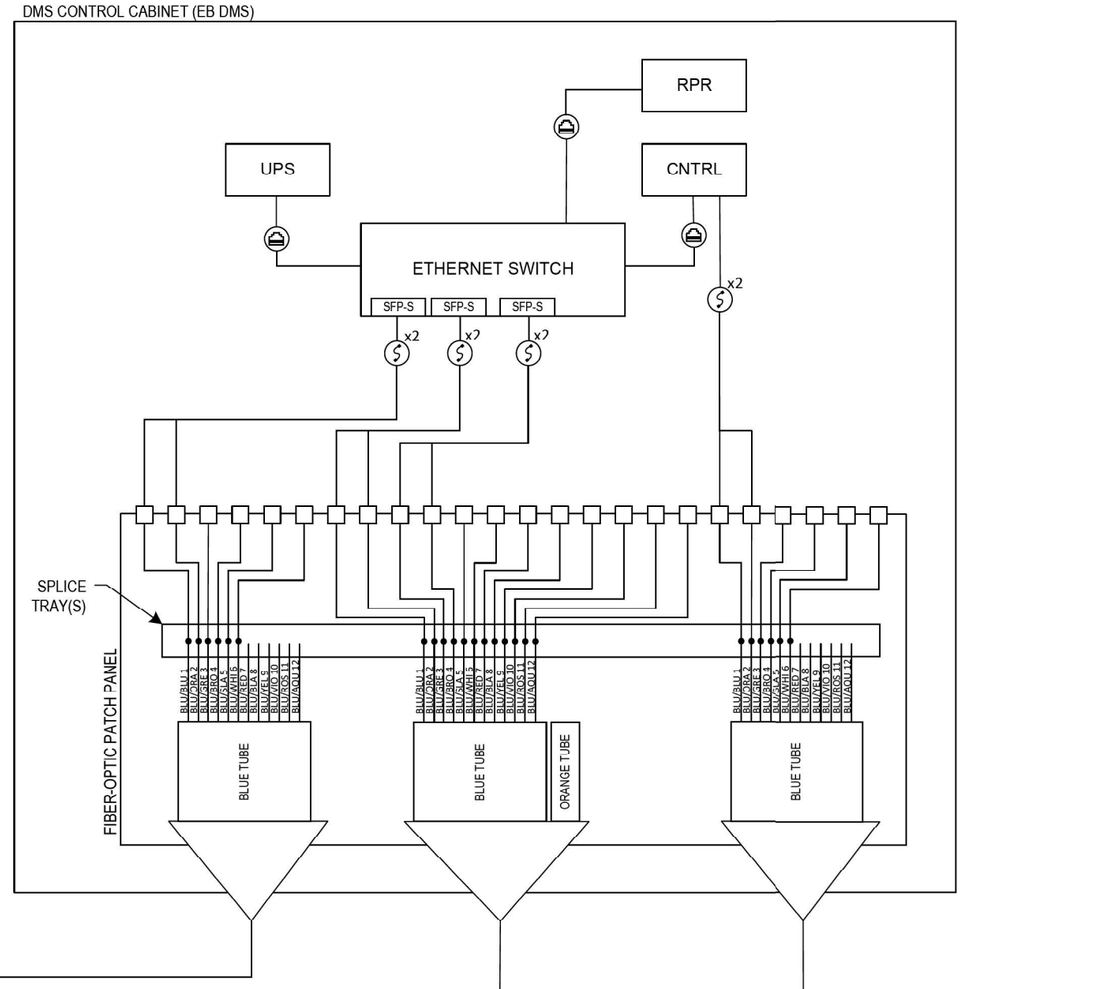
STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

DMS FIBER SPLICING DIAGRAM (1 OF 2)
IL ROUTE 56 / 22ND ST. EASTBOUND DMS 2

SCALE: N.T.S. | SHEET 1 OF 1 SHEETS | STA. | TO STA.

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
365	2020-265-SUR, SW & TS	DUPAGE/COOK	462	440
		CONTRACT NO. 62N32		
	ILLINOIS	FED. AID PROJECT		





FOC 12F SM

FOC 24F SM
(LCF-IL56-01A)

FOC PER DMS MANUFACTURER
(SEE NOTE 4)

TO COMM. VAULT 586+50
(SPLICE)

TO DMS DISPLAY

LEGEND

PROPOSED

- FIBER OPTIC CABLE (FOC)
- FIBER-OPTIC FUSION SPLICE
- CAT 6 CABLE
- FIBER OPTIC PATCH CABLE
- SFP-S — FIBER OPTIC TRANSCEIVER – SINGLE MODE
- DMS — DYNAMIC MESSAGE SIGN (DMS)
- CNTRL — DMS CONTROLLER
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NOTES:

1. DISTRIBUTION CABLE-FIBER (DCF) TUBES CONTAINING UNUSED FIBER STRANDS SHALL REMAIN UNCUT UNLESS OTHERWISE DIRECTED BY THE ENGINEER.
2. TRUNK CABLE-FIBER (TCF) SHALL HAVE SLACK STORED WITHIN THE SPLICE COMMUNICATIONS VAULT AND SHALL PASS THROUGH UNCUT.
3. UNSPLICED FIBER PIGTAILS SHALL BE CAPPED AND COILED WITHIN SPLICE TRAY.
4. FIBER-OPTIC CABLE DEPICTED IS GUIDANCE ONLY. ACTUAL FIBER-OPTIC CABLE FROM DMS CONTROLLER TO DMS DISPLAY SHALL BE IN ACCORDANCE WITH THE DMS MANUFACTURER'S REQUIREMENTS.

MODEL: Default
FILE NAME: Z:\984097 IDOT IL 56 Smart Corridor\Work\CADD\From_AMES\ITS 62N32D1\62N32ITS_441.dgn

PARSONS

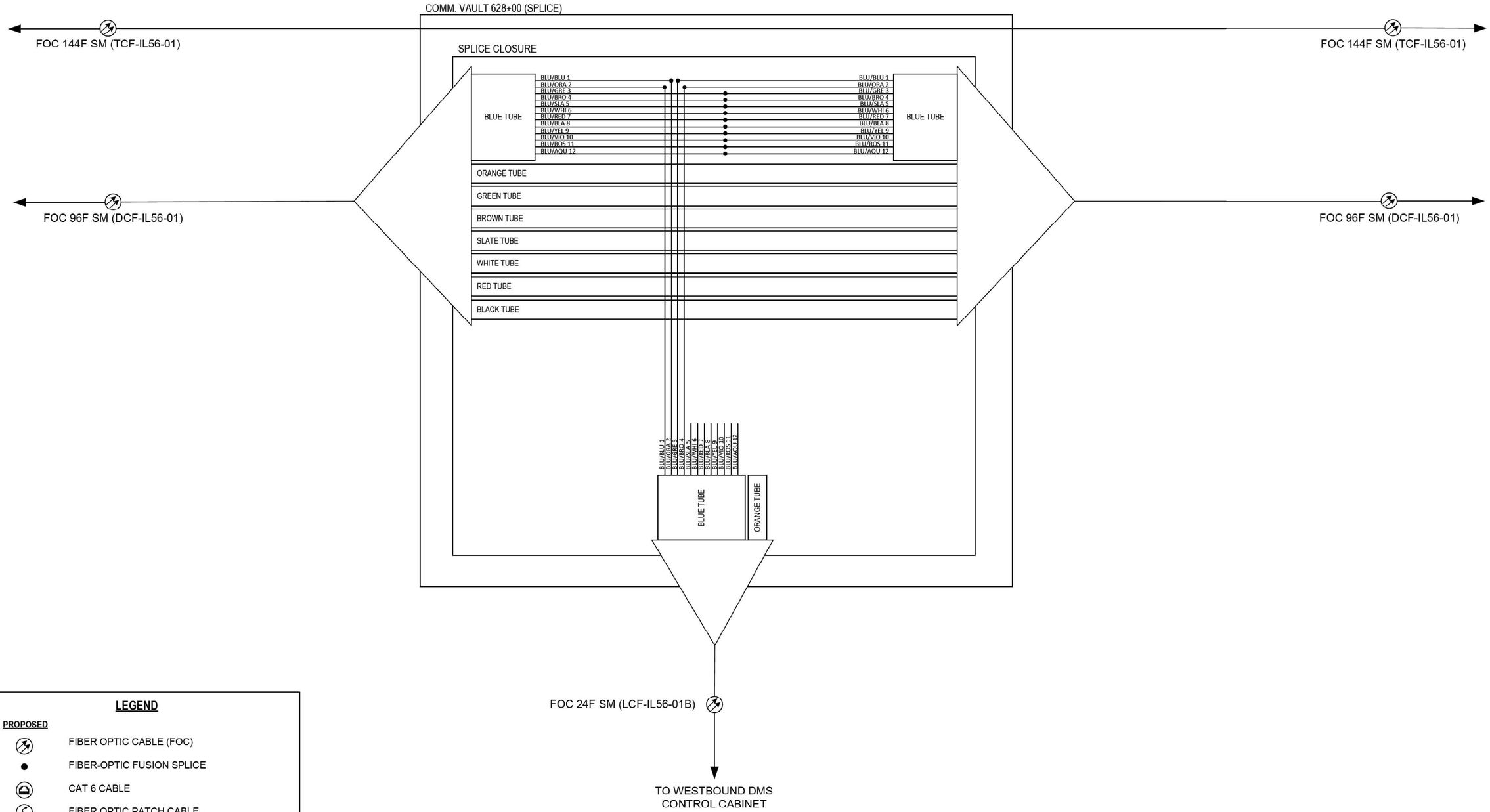
USER NAME = $USER$	DESIGNED - YJ	REVISED -	
	DRAWN - MT	REVISED -	
PLOT SCALE = $SCALE$	CHECKED - RCB	REVISED -	
PLOT DATE = 2/23/2024	DATE - 02/23/2024	REVISED -	

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

DMS FIBER SPLICING DIAGRAM (2 OF 2)
IL ROUTE 56 / 22ND ST. EASTBOUND DMS 2

SCALE: N.T.S. | SHEET 1 OF 1 SHEETS | STA. | TO STA.

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
365	2020-265-SUR, SW & TS	DUPAGE/COOK	462	441
		CONTRACT NO. 62N32		
	ILLINOIS	FED. AID PROJECT		



LEGEND

PROPOSED

- FIBER OPTIC CABLE (FOC)
- FIBER-OPTIC FUSION SPLICE
- CAT 6 CABLE
- FIBER OPTIC PATCH CABLE
- SFP-S — FIBER OPTIC TRANSCEIVER – SINGLE MODE
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2. TRUNK CABLE-FIBER (TCF) SHALL HAVE SLACK STORED WITHIN THE SPLICE COMMUNICATIONS VAULT AND SHALL PASS THROUGH UNCUT.
3. UNSPLICED FIBER PIGTAILS SHALL BE CAPPED AND COILED WITHIN SPLICE CLOSURE.

ITS–82

MODEL: Default
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PARSONS

USER NAME = $USER$	DESIGNED - YJ	REVISED -	
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PLOT SCALE = $SCALE$	CHECKED - RCB	REVISED -	
PLOT DATE = 2/23/2024	DATE - 02/23/2024	REVISED -	

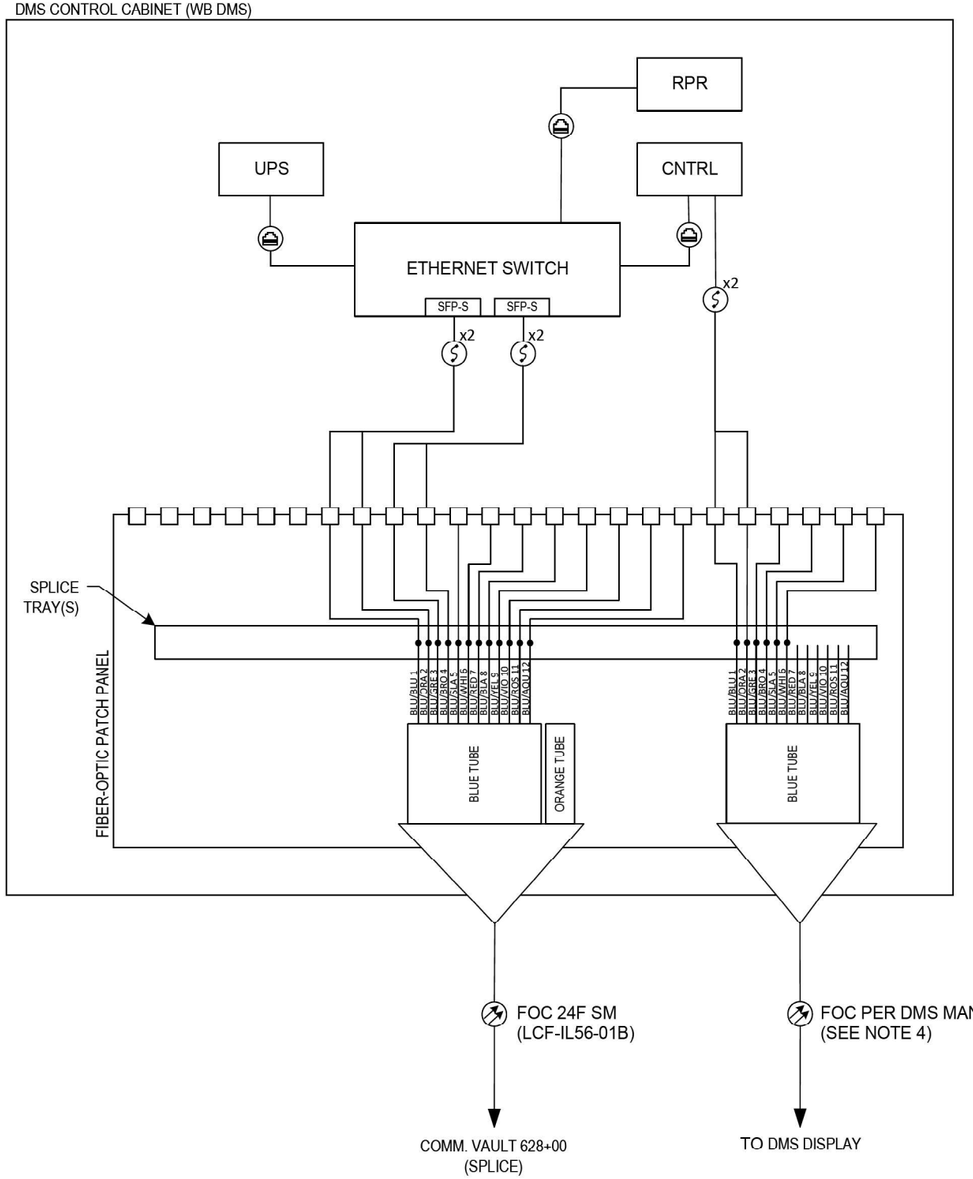
STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

DMS FIBER SPLICING DIAGRAM (1 OF 2)
IL ROUTE 56 / 22ND ST. WESTBOUND DMS 3

SCALE: N.T.S. | SHEET 1 OF 1 SHEETS | STA. | TO STA.

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
365	2020-265-SUR, SW & TS	DUPAGE/COOK	462	442
		CONTRACT NO. 62N32		
	ILLINOIS	FED. AID PROJECT		

DMS CONTROL CABINET (WB DMS)



LEGEND

PROPOSED

- FIBER OPTIC CABLE (FOC)
- FIBER-OPTIC FUSION SPLICE
- CAT 6 CABLE
- FIBER OPTIC PATCH CABLE
- SFP-S — FIBER OPTIC TRANSCEIVER – SINGLE MODE
- DMS — DYNAMIC MESSAGE SIGN (DMS)
- CNTRL — DMS CONTROLLER
- PTZ — CCTV CAMERA, PAN-TILT-ZOOM
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NOTES:

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4. FIBER-OPTIC CABLE DEPICTED IS GUIDANCE ONLY. ACTUAL FIBER-OPTIC CABLE FROM DMS CONTROLLER TO DMS DISPLAY SHALL BE IN ACCORDANCE WITH THE DMS MANUFACTURER'S REQUIREMENTS.

ITS–83

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PARSONS

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PLOT SCALE = $SCALE$	CHECKED - RCB	REVISED -
PLOT DATE = 2/23/2024	DATE - 02/23/2024	REVISED -

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

DMS FIBER SPLICING DIAGRAM (2 OF 2)
IL ROUTE 56 / 22ND ST. WESTBOUND DMS 3

SCALE: N.T.S. | SHEET 1 OF 1 SHEETS | STA. | TO STA.

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
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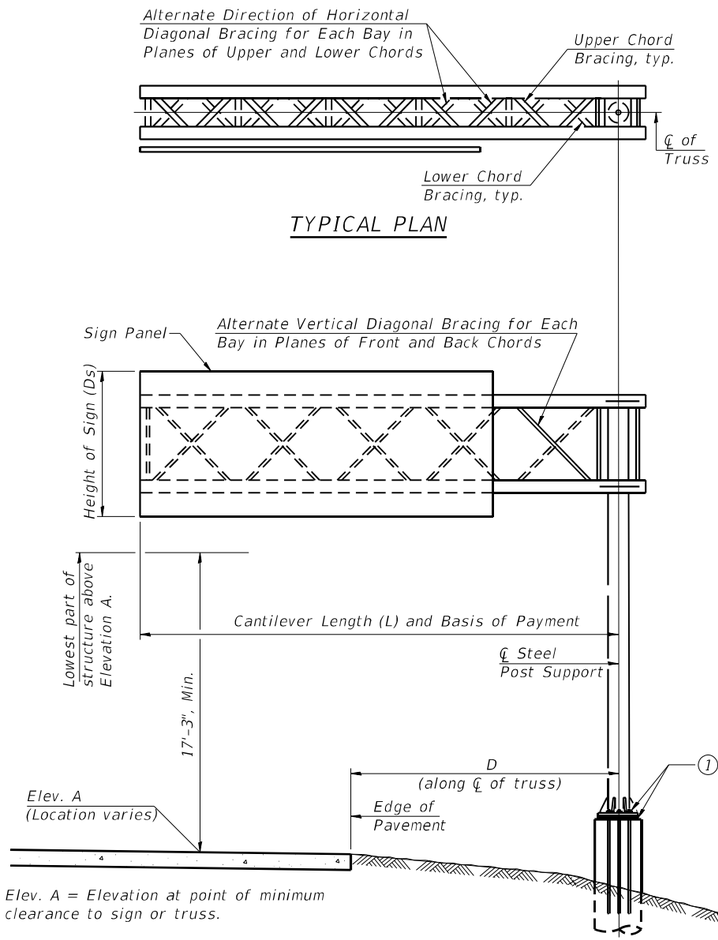
		CONTRACT NO. 62N32		
	ILLINOIS	FED. AID PROJECT		



TYPICAL PLAN

Structure Number	Station	Design Truss Type	Cantilever Length (L)	Elev. A	Dim. D	Ds	Total Sign Area
1C022S056R000.0-002	586+48.52	III-C-A	26'-7"	735.89	7'-9"	5'-8"	106.72 SF
1C022S056L000.0-002	627+94.82	III-C-A	26'-7"	753.95	7'-9"	5'-8"	106.72 SF

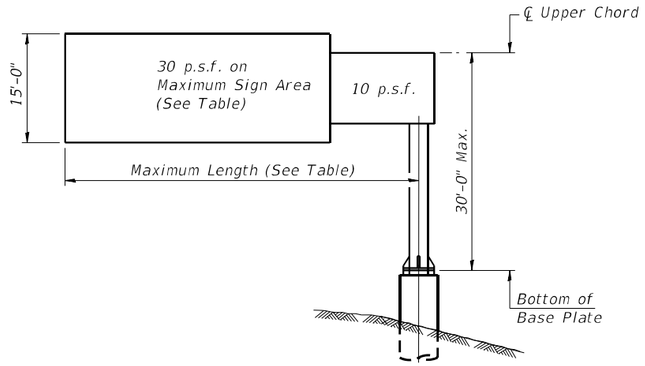
Truss Type	Maximum Sign Area	Maximum Length
III-C-A	400 Sq. Ft.	40 Ft.

Elev. A = Elevation at point of minimum clearance to sign or truss.

TYPICAL ELEVATION

Looking in Direction of Traffic

Sign support structures may be subject to damaging vibrations and oscillations when sign panels are not in place during erection or maintenance of the structure. To avoid these vibrations and oscillations, consideration should be given to attaching temporary blank sign panels to the structure.



DESIGN WIND LOADING DIAGRAM

Parameters shown are basis for I.D.O.T. Standards Installations not within dimensional limits shown require special analysis for all components.

(1) *After adjustments to level truss and insure adequate vertical clearance, all top and leveling nuts shall be tightened against the base plate with a minimum torque of 200 lb.-ft. Stainless steel mesh shall then be placed around the perimeter of the base plate. Secure to base plate with stainless steel banding.*

* *If M270 Gr. 50W (M222) steel is proposed, chemistry for plate to be used shall first be approved by the Engineer as suitable for galvanizing and welding.*

Note:
Trusses shall be shipped individually with adequate provision to prevent detrimental motion during transport. This may require ropes between horizontals and diagonals or energy dissipating (elastic) ties to the vehicle. The contractor is responsible for maintaining the configuration and protection of the trusses.

GENERAL NOTES

DESIGN: AASHTO Standard Specifications for Structural Supports for Highway Signs, Luminaires and Traffic Signals. ("AASHTO Specifications")

CONSTRUCTION: Current (at time of letting) Illinois Department of Transportation Standard Specifications for Road and Bridge Construction, Supplemental Specifications and Special Provisions. ("Standard Specifications")
Contractor shall field verify all dimensions and elevations prior to starting work. Contrator shall contact the engineer prior to starting work if field dimensions and elevations vary from these plans.

LOADING: 90 M.P.H. WIND VELOCITY

MINIMUM CLEARANCE: Vertical Roadway Clearance = 17'-3" (All Obstructions)

WELDING: All welds to be continuous unless otherwise shown. All welding to be done in accordance with current AWS D1.1 Structural Welding Code and the Standard Specifications.

MATERIALS: All Structural Steel Pipe shall be ASTM A53 Grade B or A500 Grade B or C. If A500 pipe is substituted for A53, then the outside diameter shall be as detailed and wall thickness greater than or equal to A53.
All Structural Steel Plates and Shapes shall conform to AASHTO M270 Gr. 36, Gr. 50 or Gr. 50W (M183, M223 Gr. 50 or M222). Stainless steel for handhole covers shall be ASTM A240, Type 302 or 304, or another alloy suitable for exterior exposure and acceptable to the Engineer.*
The steel pipe and stiffening ribs at the base plate for the column shall have a minimum longitudinal Charpy V-Notch (CVN) energy of 15 lb.-ft. at 40° F. (Zone 2) before galvanizing.

FASTENERS FOR STEEL TRUSSES: All bolts noted as "high strength" (HS) must satisfy the requirements of AASHTO M164 (ASTM A325), ASTM A449, or an Engineer approved alternate, and must have matching lock nuts and washers. All bolts, u-bolts, eye bolts, lock nuts and washers not specified to be "high strength" must satisfy the requirements of ASTM A307 Gr. B. All lock nuts must have nylon or steel inserts. High strength bolt installation shall conform to Article 505.04 (f) (2)d of the Standard Specifications. Rotational capacity ("ROCAP") testing will not be required. All bolts, locknuts and washers must be hot dip galvanized per AASHTO M232.

GALVANIZING: All Steel Grating, Plates, Shapes and Pipe shall be Hot Dip Galvanized after fabrication in accordance with AASHTO M111.

ANCHOR RODS: Shall conform to ASTM F1554 Gr. 105.

CONCRETE SURFACES: All concrete surfaces above an elevation 6" below the lowest final ground line at each foundation shall be cleaned and coated with Concrete Sealer in accordance with the Standard Specifications.

REINFORCEMENT BARS: Reinforcement Bars designated (E) shall be epoxy coated in accordance with the Standard Specifications.

FOUNDATIONS: The contract unit price for "Concrete Foundations" or "Drilled Shaft Concrete Foundations" shall include: All necessary excavation or drilling (except in rock); backfilling with excavated material; disposal of unsuitable or surplus material; formwork; and furnishing and placing the Concrete, reinforcement bars, conduit, anchor bolts, nuts, washers and ground rods complete in place.

TOTAL BILL OF MATERIAL

ITEM	UNIT	TOTAL
OVERHEAD SIGN STRUCTURE CANTILEVER TYPE III-C-A	Foot	54
DRILLED SHAFT CONCRETE FOUNDATIONS	Cu. Yds.	15.0

62N32-SHT-STR-DMS-001-GPE

Bowman
10 S. LaSalle St., Suite 2110
Chicago, Illinois 60606
312-419-0380
www.bowman.com

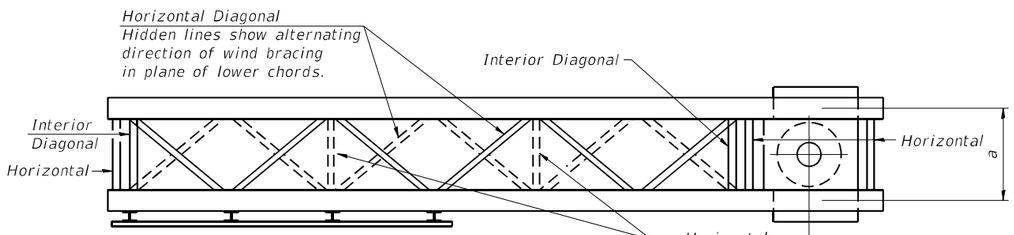
USER NAME = dofrikhter		DESIGNED - DSO		REVISED -	
		CHECKED - AJN		REVISED -	
PLOT SCALE = 2.0000 ' / in.		DRAWN - DSO		REVISED -	
PLOT DATE = 02/22/2024		CHECKED - AJN		REVISED -	

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

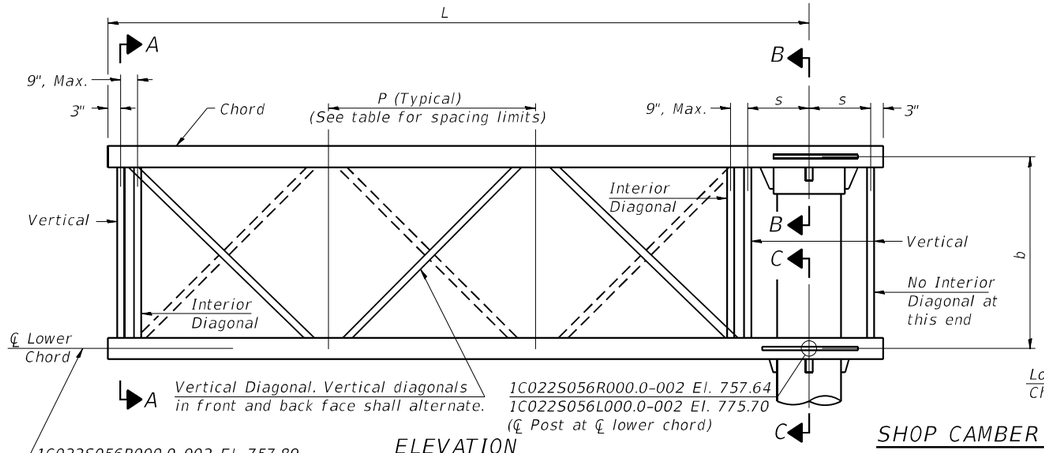
CANTILEVER SIGN STRUCTURES – GENERAL PLAN & ELEVATION – STEEL TRUSS & STEEL POST

SHEET 1 OF 9 SHEETS

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
365	30	DUPAGE	462	444
		CONTRACT NO. 62N32		
	ILLINOIS	FED. AID PROJECT		



PLAN



ELEVATION

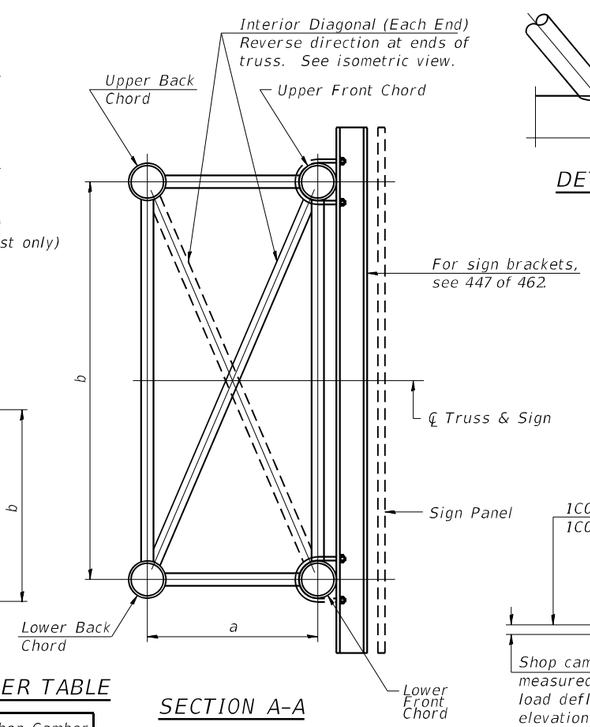
(Sign omitted for clarity)

TYPICAL TRUSS UNIT

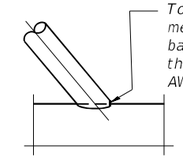
For Section B–B and Section C–C, see 447 of 462.

SHOP CAMBER TABLE

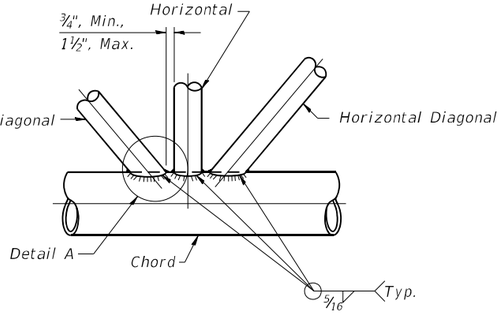
Unit Length (L)	Shop Camber at End
26'-27'	2¾"



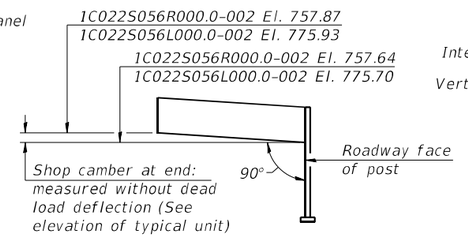
SECTION A-A



DETAIL A

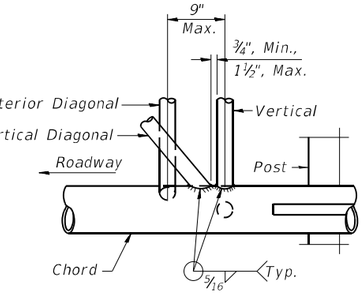


TRUSS INTERIOR JOINT DETAIL



CAMBER DIAGRAM

(For Fabrication Only)

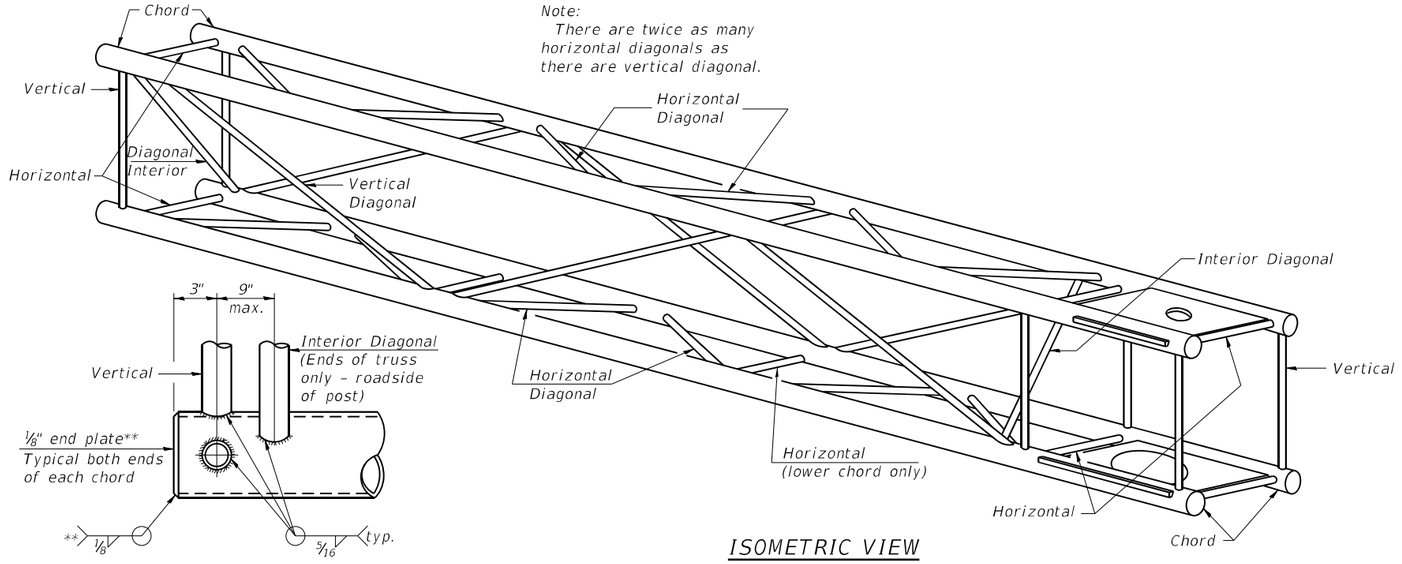


POST END JOINT DETAIL

TRUSS UNIT TABLE

Truss Type	Dimension "a"	Dimension "b"	Dimension "s"	Limits for Panel Spacing (P)	Up. & Low. Chord		Verticals; Horizontals; Vertical, Horizontal, and Interior Diagonals	
					O.D.	Wall	O.D.	Wall
III-C-A (35' Max.)	36"	84"	21"	48" Min. to 66" Max.	6"	0.344"	2½"	0.203"

Structure Number	Station	Truss Type	Design Length (L)	Number of Panels Per Unit	Panel Length (P)*
1C022S056R000.0-002	586+48.52	III-C-A	26'-7"	5	4'-11"
1C022S056L000.0-002	627+94.82	III-C-A	26'-7"	5	4'-11"



ISOMETRIC VIEW

TYPICAL TRUSS UNIT

ASTM B221 Alloy 6061 Temper T6

CANTILEVER END JOINT DETAIL

** Contractor may alternatively use standard aluminum drive-fit cap to close ends. ½" Ø Drain hole in end plate / drive-fit cap.

62N32-SHT-STR-DMS-002-TRUSS

Bowman 10 S. LaSalle St., Suite 2110 Chicago, Illinois 60603 312-494-0360 www.bowmanpc.com	USER NAME = dofrikhter	DESIGNED - DSO	REVISED -	STATE OF ILLINOIS DEPARTMENT OF TRANSPORTATION	CANTILEVER SIGN STRUCTURES – TRUSS DETAILS STEEL TRUSS & STEEL POST
		CHECKED - AJN	REVISED -		
	PLOT SCALE = 2.0000 ' / in.	DRAWN - DSO	REVISED -		SHEET 2 OF 9 SHEETS
	PLOT DATE = 02/22/2024	CHECKED - AJN	REVISED -		

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
365	30	DUPAGE	462	445
		CONTRACT NO. 62N32		
	ILLINOIS	FED. AID PROJECT		

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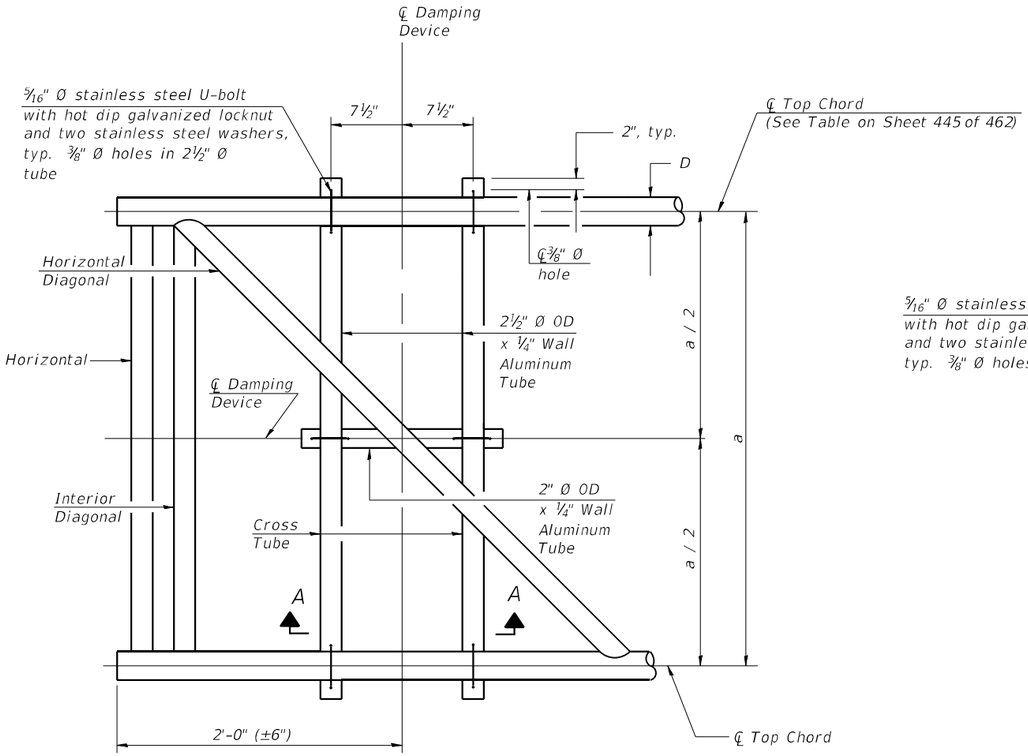
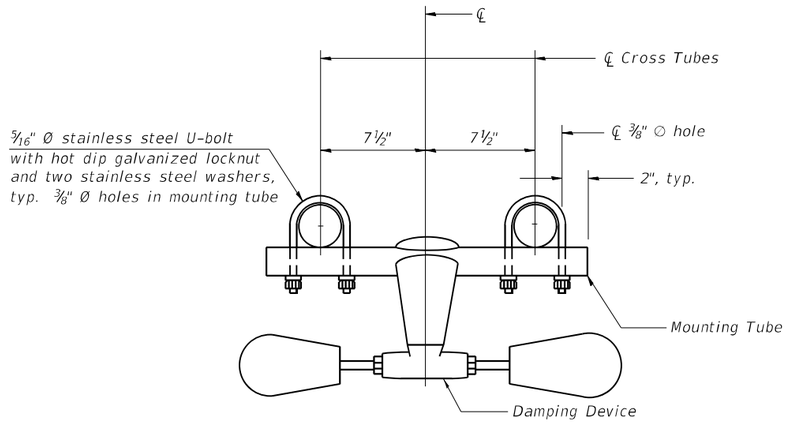
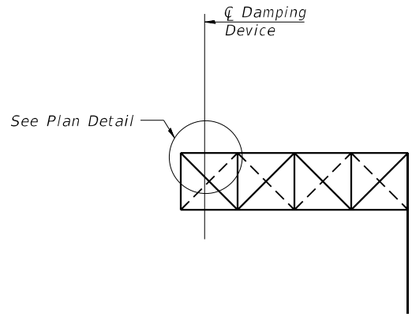


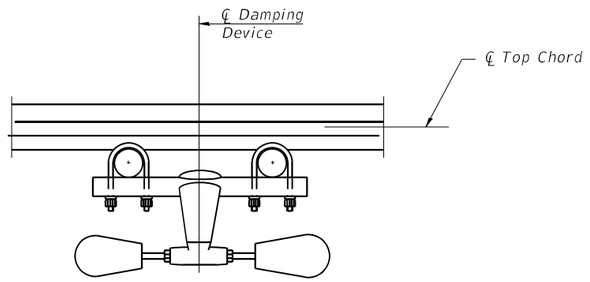
PLAN DETAIL



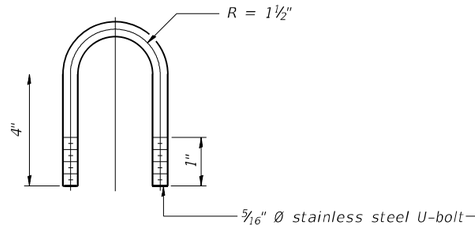
TRUSS DAMPING DEVICE CONNECTION DETAIL



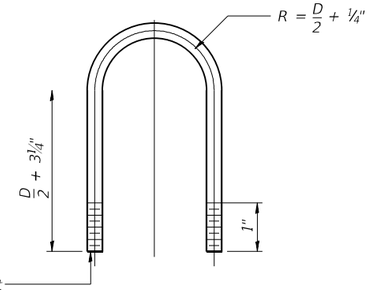
ELEVATION
Aluminum Cantilever Sign Structure



SECTION A-A



DAMPING DEVICE MOUNTING TUBE U-BOLT DETAIL
(Typical)



TOP CHORD TO CROSS TUBE U-BOLT DETAIL
(Typical)

GENERAL NOTES

Damper: One damper per truss. (31 lbs. Stockbridge-Type Aluminum-29" minimum between ends of weights)

Materials: Aluminum tubes shall be ASTM B221 alloy 6061 temper T6

62N32-SHT-STR-DMS-003-DAMP

Bowman 10 S. LaSalle St., Suite 2110 Chicago, Illinois 60603 312-419-0360 www.bowman.com	USER NAME = dofrikhter	DESIGNED - DSO	REVISED -	STATE OF ILLINOIS DEPARTMENT OF TRANSPORTATION	CANTILEVER SIGN STRUCTURES DAMPING DEVICE
		CHECKED - AJN	REVISED -		
	PLOT SCALE = 2.0000 ' / in.	DRAWN - DSO	REVISED -		SHEET 3 OF 9 SHEETS
	PLOT DATE = 02/22/2024	CHECKED - AJN	REVISED -		

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
365	30	DUPAGE	462	446
		CONTRACT NO. 62N32		
	ILLINOIS	FED. AID PROJECT		

MODEL: Default
FILE NAME: \\il-chic-fs1-vm\new_projects\040058 - IDOT\040058-07-001 (ENG) - PTB 199-016 IL 56\Engineering\500 Drawings\502 CADD Sheets\D162N32-SHT-STR-DMS-003-DAMP.dgn
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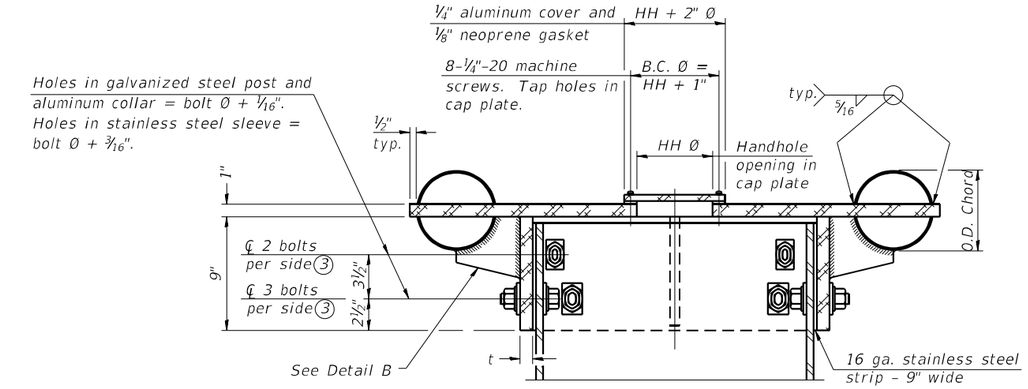
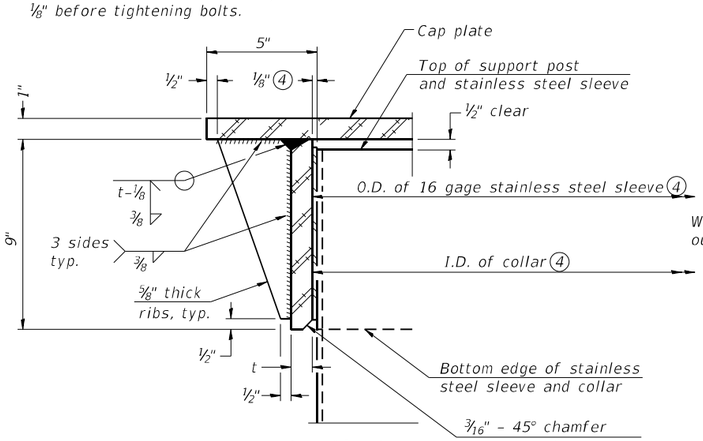


SECTION B-B

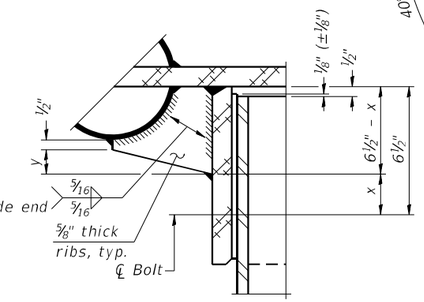
Bolts, washers (including contoured washers), and locknuts shall be stainless steel.

④ Collar I.D. shall be manufactured to correspond to O.D. of actual galvanized post and stainless steel sleeve plus ⅛" (±1/16"). Maximum gap between post and collar at any location equals ⅛" before tightening bolts.



DETAIL A

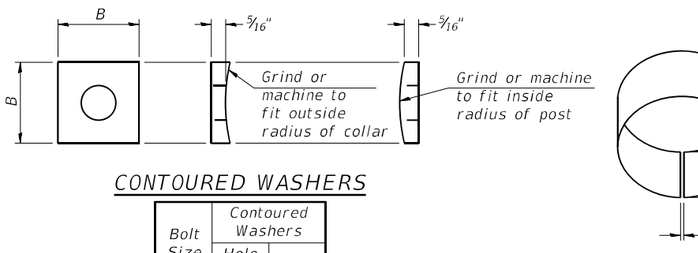
(Two locations)



DETAIL B

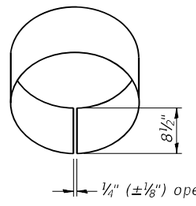
Two locations

(For details not shown, see Detail C)



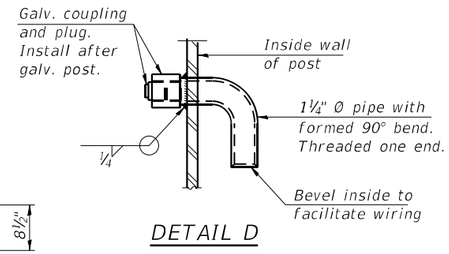
CONTOURED WASHERS

Bolt Size	Contoured Washers	
	Hole Dia.	B
⅞"	1"	2½"
1"	1⅛"	3"
1¼"	1⅜"	3¼"

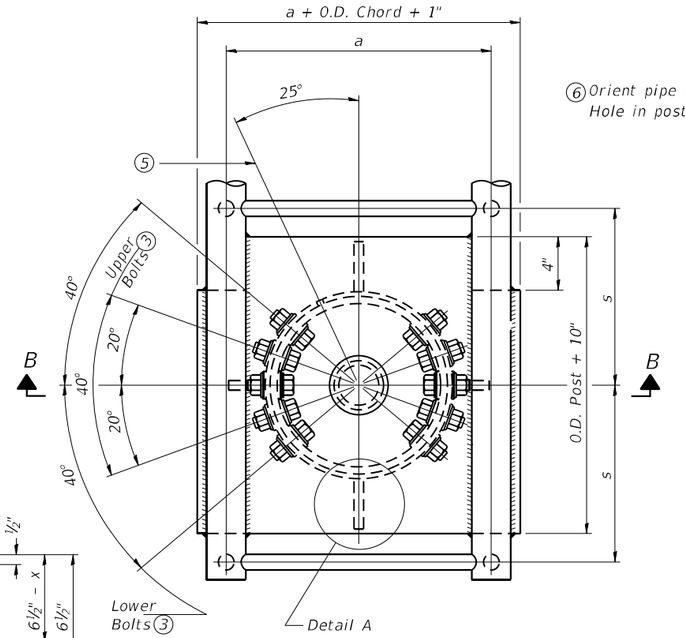


DETAIL OF STAINLESS STEEL SLEEVE

Weld to post after galvanizing.
(Prepare post surface to insure tight, uniform fit and allow welding.)
Welds to be 1½" long at 6" cts. along top edge and at ¼" opening.



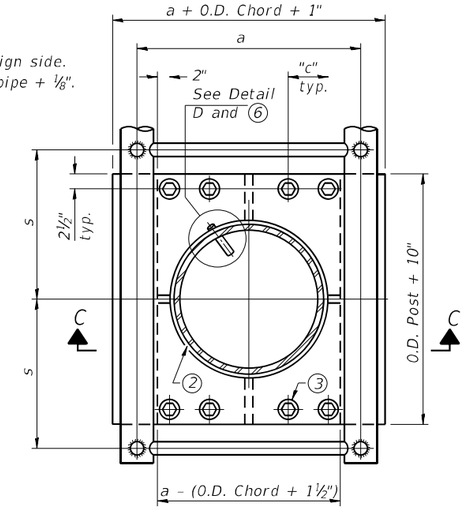
DETAIL D



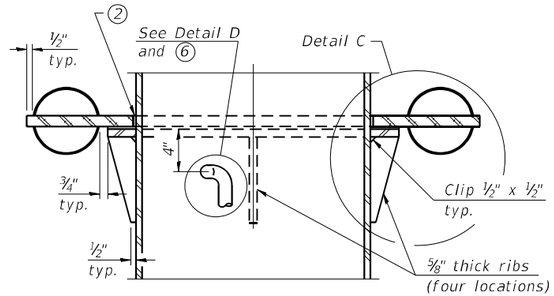
PLAN VIEW - TOP OF COLUMN

⑤ Optional full penetration weld in collar. (Two locations maximum....(180° apart)....X-ray or UT 100%)

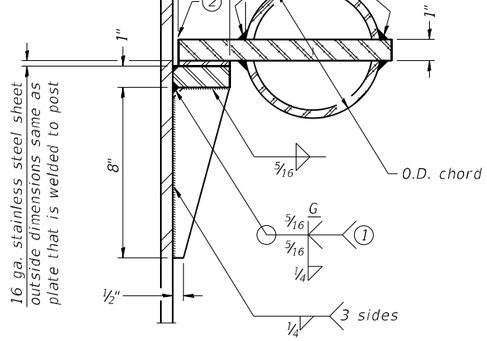
⑥ Orient pipe toward sign side. Hole in post = O.D. pipe + ⅛".



SECTION THRU POST ABOVE LOWER CHORDS



SECTION C-C



DETAIL C

Truss Type	Post Size	Upper & Lower Connection Bolt Diameter (3)	Lower Juncture Bolt Spacing Dimension "c" (3)	Opening in Cap Plate "HH"	Collar Thickness (t)	Side Ribs	
						x	y
III-C-A (35' max.)	24" Ø (125#/')	1¼"	3½"	12"	⅞"	2"	1"

① Grind top if required to fully seat aluminum plate and stainless steel sheet.

② After tightening lower connection bolts, fill gap with non-hardening, silicone caulk suitable for exterior exposure and acceptable to the Engineer. Cost is included in Overhead Sign Structure Cantilever.

③ Upper and lower connection bolts in collar and bolts at lower chord connection shall be high strength with matching locknuts. Connection bolts shall have 2 stainless steel flat washers each.

62N32-SHT-STR-DMS-004-JNCTRDETAIL

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USER NAME = dofrikhter	DESIGNED - DSO	REVISED -	STATE OF ILLINOIS DEPARTMENT OF TRANSPORTATION	CANTILEVER SIGN STRUCTURES - JUNCTURE DETAILS STEEL TRUSS & STEEL POST
	CHECKED - AJN	REVISED -		
PLOT SCALE = 2:0.0000 ':' / in.	DRAWN - DSO	REVISED -		SHEET 4 OF 9 SHEETS
PLOT DATE = 02/22/2024	CHECKED - AJN	REVISED -		

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
365	30	DUPAGE	462	447
		CONTRACT NO. 62N32		
	ILLINOIS FED. AID PROJECT			

MODEL: Default
FILE NAME: \\IL-chic-fs1-vm\new_projects\040058 - IDOT\040058-07-001 (ENG) - PTB 199-016 IL 56\Engineering\500 Drawings\502 CADD Sheets\D162N32-SHT-STR-DMS-004-JNCTRDETAIL.dgn
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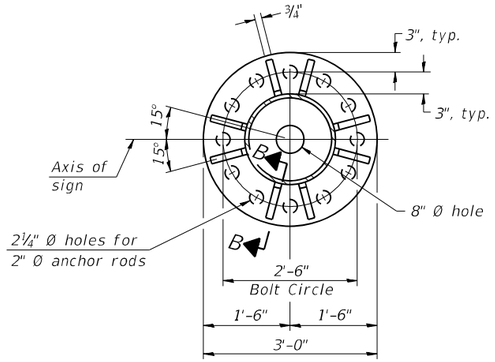
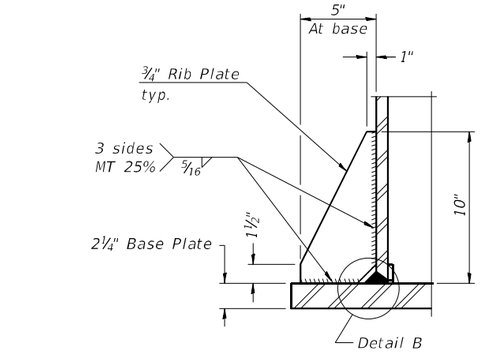
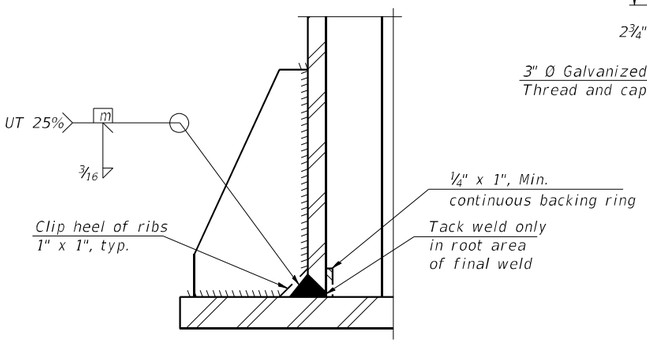


SECTION A-A

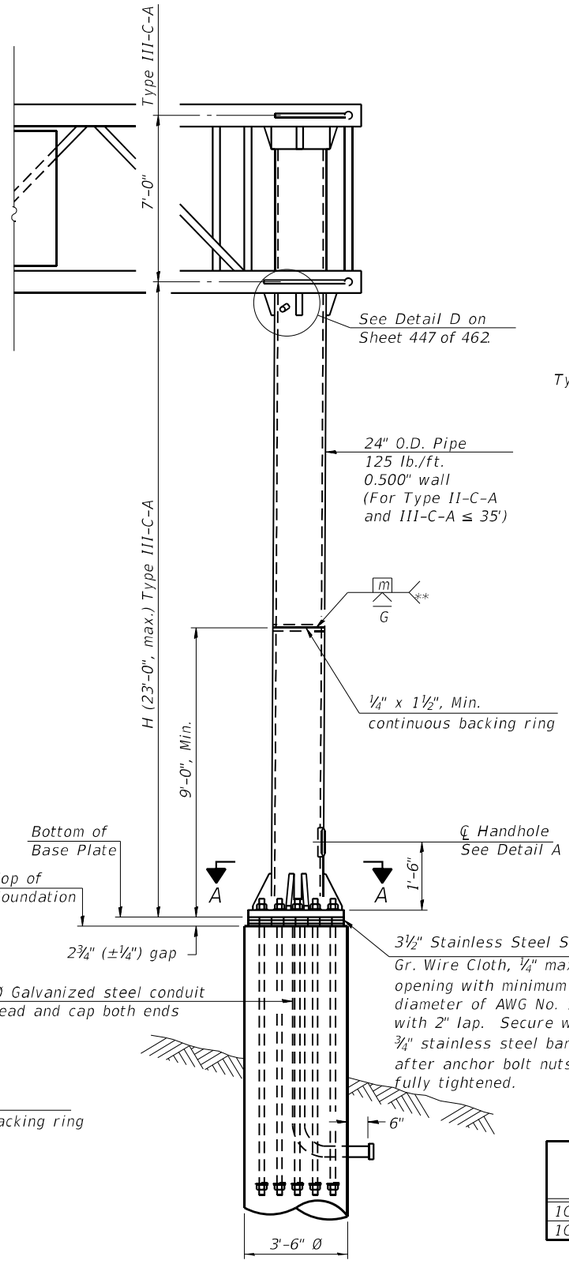


SECTION B-B



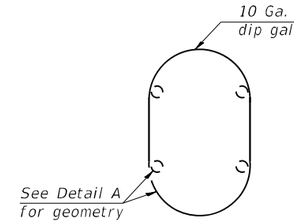
DETAIL B

(Typical rib)

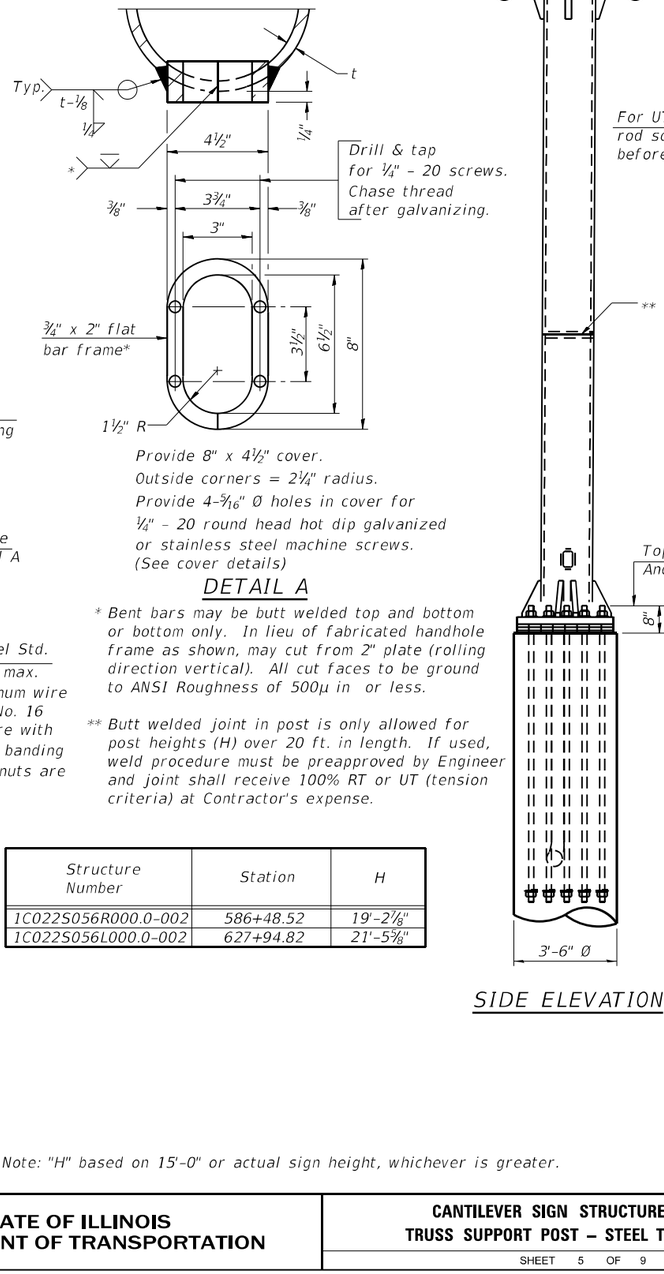


FRONT ELEVATION

For Foundation Details see Sheet 450 of 462.



HANDHOLE COVER



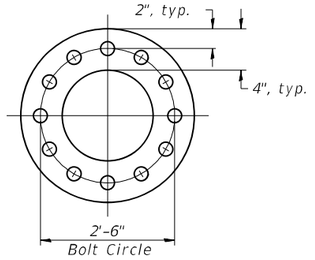
DETAIL A

* Bent bars may be butt welded top and bottom or bottom only. In lieu of fabricated handhole frame as shown, may cut from 2" plate (rolling direction vertical). All cut faces to be ground to ANSI Roughness of 500µ in or less.

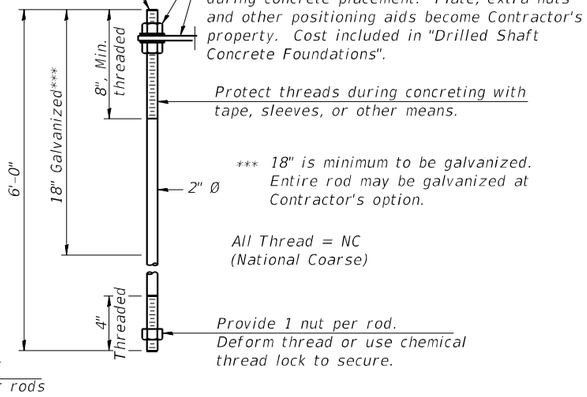
** Butt welded joint in post is only allowed for post heights (H) over 20 ft. in length. If used, weld procedure must be preapproved by Engineer and joint shall receive 100% RT or UT (tension criteria) at Contractor's expense.

Structure Number	Station	H
1C022S056R000.0-002	586+48.52	19'-2⅛"
1C022S056L000.0-002	627+94.82	21'-5⅝"

SIDE ELEVATION



SUGGESTED POSITIONING PLATE



ANCHOR ROD DETAIL

Anchor rods shall conform to ASTM F1554 Grade 105. Galvanize the upper 18" (minimum***) and associated AASHTO M291, Grade A, C or DH heavy hex nuts and hardened washers per AASHTO M232. No welding shall be permitted on rods. Provide a nut at bottom, a hexagon locknut and washer above base plate and a leveling nut and washer below base plate. Nuts shall each be tightened with 200 lb.-ft. minimum torque against base plate. Before or after threading, but before galvanizing, each anchor rod shall be ultrasonically tested (UT) by a Level II or III inspector, qualified in accord with ANSI guidelines, to insure no rejectable flaws exist in the upper 18" (tension criteria). Cost of testing included in Drilled Shaft Concrete Foundations.

Note: "H" based on 15'-0" or actual sign height, whichever is greater.

62N32-SHT-STR-DMS-005-TRUSSPOST

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USER NAME = dofrikhter	DESIGNED - DSO	REVISED -	STATE OF ILLINOIS DEPARTMENT OF TRANSPORTATION	CANTILEVER SIGN STRUCTURES – TYPE III-C-A TRUSS SUPPORT POST – STEEL TRUSS & STEEL POST	
	CHECKED - AJN	REVISED -			
PLOT SCALE = 2.0000 ' / in.	DRAWN - DSO	REVISED -			
PLOT DATE = 02/22/2024	CHECKED - AJN	REVISED -		SHEET 5 OF 9 SHEETS	

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
365	30	DUPAGE	462	448
		CONTRACT NO. 62N32		
		ILLINOIS	FED. AID PROJECT	

MODEL: Default
FILE NAME: \\ilchic-fs1-vm\new_projects\040058 - IDOT\040058-07-001 (ENG) - PTB 199-016 IL 56\Engineering\500 Drawings\502 CADD Sheets\D162N32-SHT-STR-DMS-005-TRUSSPOST.dgn
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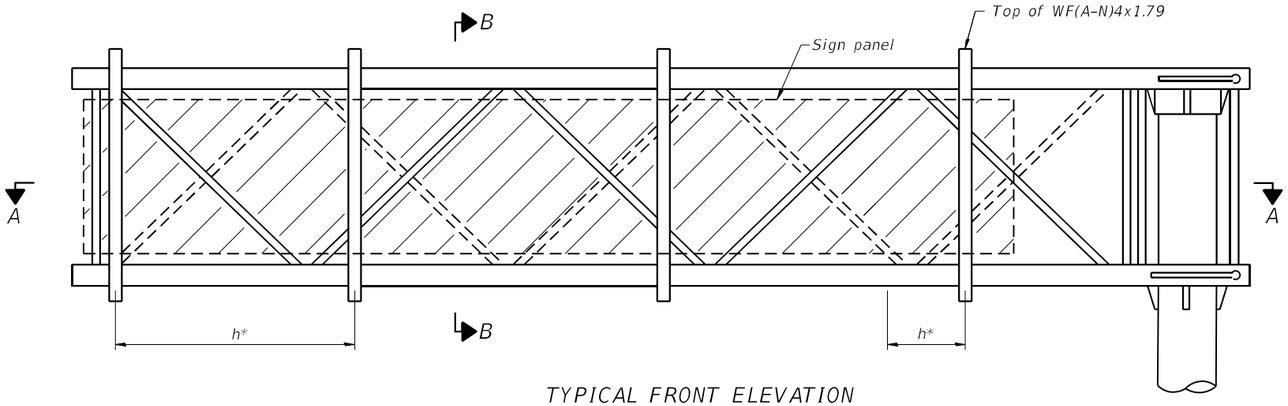
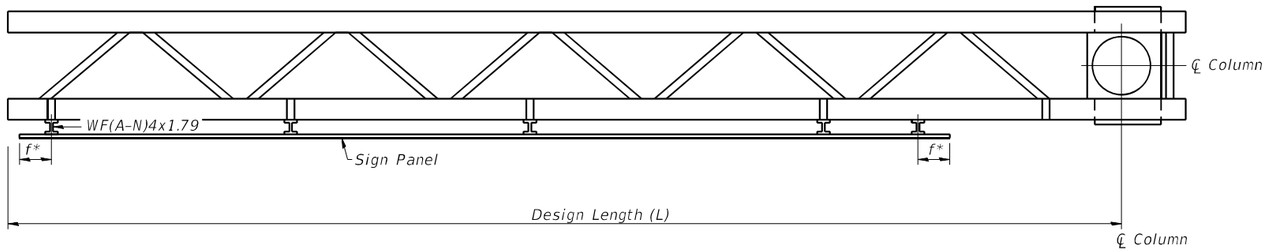
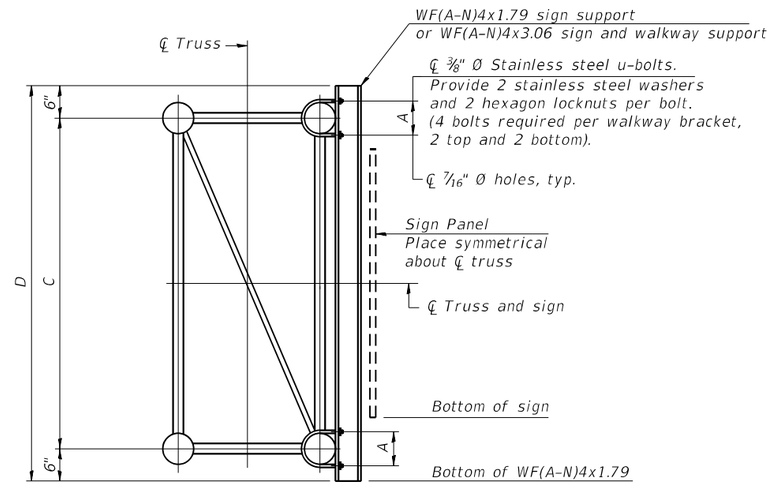


TYPICAL FRONT ELEVATION



SECTION A-A



SECTION B-B

Structure Number	Station	A	B	C	D
1C022S056R000.0-002	586+48.52	6⅜"	N/A	7'-0"	8'-0"
1C022S056L000.0-002	627+94.82	6⅜"	N/A	7'-0"	8'-0"

Notes:
* Space sign brackets WF(A-N)4x1.79 for efficiency and within limits shown:

f = 12" maximum, 4" minimum (End of sign to ℄ of nearest bracket)
h = 6'-0" maximum (℄ to ℄ sign support brackets, WF(A-N)4x1.79

BRACKET TABLE

WF(A-N)4x1.79 ASTM B308, Alloy 6061-T6		
Sign Width		Number Brackets Required
Greater Than	Less Than or Equal To	
14'-0"	20'-0"	4

62N32-SHT-STR-DMS-006-SIGNSUPPORT

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		CHECKED - AJN	REVISED -		
	PLOT SCALE = 2.0000 ' / in.	DRAWN - DSO	REVISED -		
	PLOT DATE = 02/22/2024	CHECKED - AJN	REVISED -		SHEET 6 OF 9 SHEETS

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
365	30	DUPAGE	462	449
		CONTRACT NO. 62N32		
	ILLINOIS	FED. AID PROJECT		

MODEL: Default
FILE NAME: \\IL-chic-fs1-vm\new_projects\040058 - IDOT\040058-07-001 (ENG) - PTB 199-016 IL 56\Engineering\500 Drawings\502 CADD Sheets\D162N32-SHT-STR-DMS-006-SIGNSUPPORT.dgn
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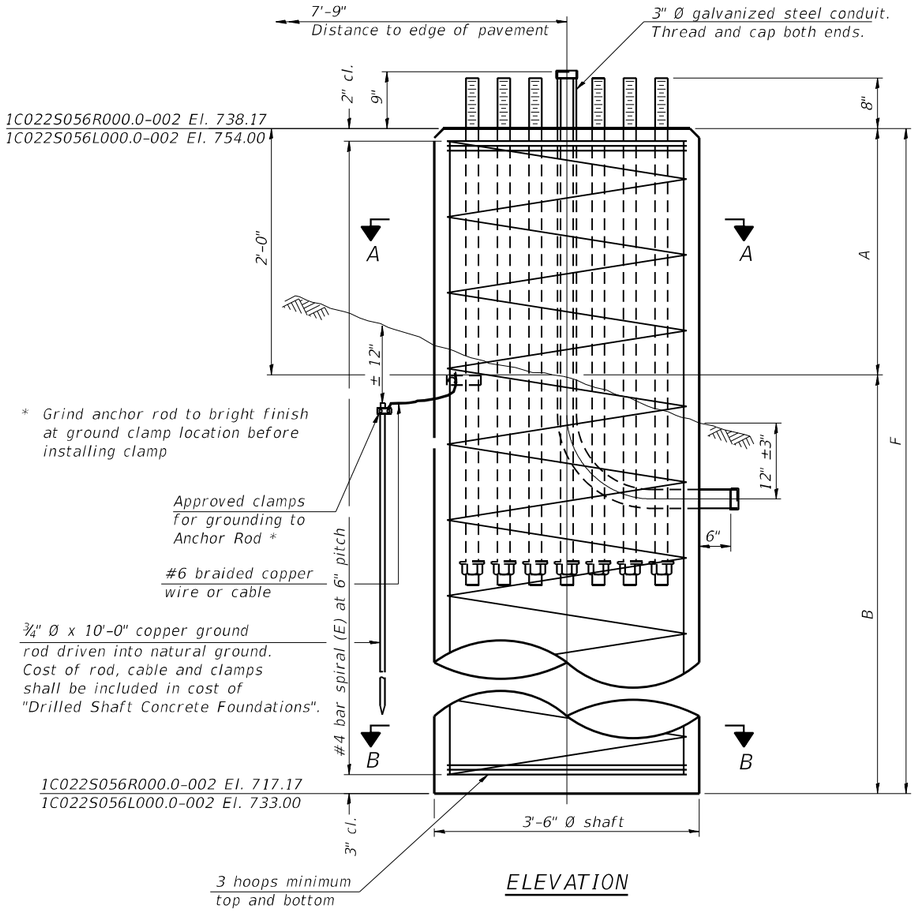
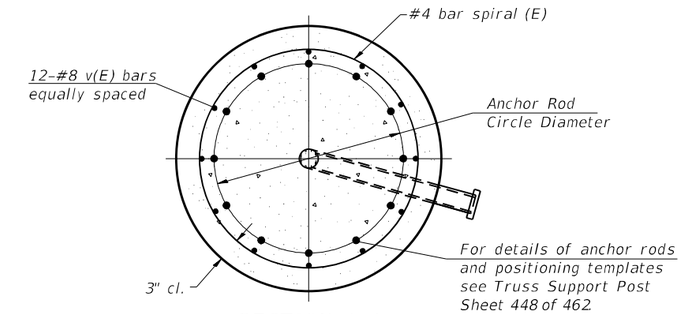
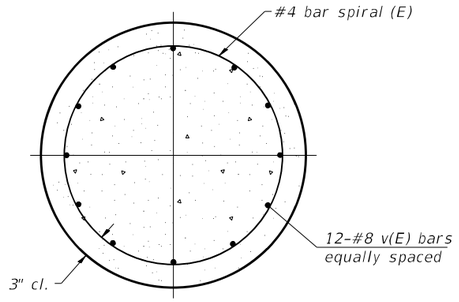




SECTION A-A
3'-6" Ø shaft



SECTION B-B
3'-6" Ø shaft

Truss Type	Maximum Cantilever Length (ft)	Maximum Total Sign Area (sq ft)	Shaft ∅ (ft)	"B" Depth (ft)	Anchor Rods		Anchor Rod Circle Diameter (in)
					No.	∅ (in)	
III-C-A	35	170	3.5	19.0	12	2	30

Structure Number	Station	Truss Type	Shaft Diameter	Elevation Top	Elevation Bottom	Qu	A	B	F	Class DS Concrete Cubic Yards
1C022S056R000.0-002	586+48.52	III-C-A	3'-6"	738.17	717.17	2.8	2'-0"	19'-0"	21'-0"	7.5
1C022S056L000.0-002	627+94.82	III-C-A	3'-6"	754.00	733.00	4.3	2'-0"	19'-0"	21'-0"	7.5

NOTES:

The foundation dimensions shown in the Foundation Design Table are based on the presence of mostly cohesive soils with an average Unconfined Compressive Strength (Qu) of at least 1.25 tsf, which must be determined by previous soil investigations at the jobsite. When other conditions are indicated, the boring data will be included in the plans and the foundation dimensions shown in the Foundation Data Table will be the result of site specific designs.

If the conditions encountered are different than those indicated, the Contractor shall notify the Engineer to determine if the foundation dimensions need to be modified. If dimensions "B" or "F" are revised by more than 12" by the Contractor, "as-built" plans shall be prepared and submitted to the District Bureau of Operations for future reference.

No sonotubes or decomposable forms shall be used below the lower conduit entrance. Permanent metal forms or other shielding may not be left in place below that elevation without the Engineer's written permission.

Concrete shall be placed monolithically, without construction joints.

Backfill shall be placed per Article 502 of Standard Specification and prior to erection of support column.

A normal surface finish followed by a Concrete Sealer application will be required on concrete surfaces above the lowest elevation 6" below finished ground line. Cost included in "Drilled Shaft Concrete Foundation".

62N32-SHT-STR-DMS-007-DRILLEDSHAFT

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PLOT SCALE = 2.0000 ' / in.	DRAWN - DSO	REVISED -	
PLOT DATE = 02/22/2024	CHECKED - AJN	REVISED -	

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

CANTILEVER SIGN STRUCTURES – DRILLED SHAFT
STEEL TRUSS & STEEL POST

SHEET 7 OF 9 SHEETS

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
365	30	DUPAGE	462	450
		CONTRACT NO. 62N32		
		ILLINOIS	FED. AID PROJECT	

NASHnal SOIL TESTING

23856 W. Andrew Rd., Unit 103, Plainfield

BOREHOLE LOG — DRAFT LOG

Number B-5

Plate #7-1

Client	IDOT
Location	Butterfield Rd.@ Llyod STA. 586+48.52
Job Number	2022-1264-01T (D-91-078-21)
Drill Rig Type	Geoprobe 7822 DT
Sampler Type	Split Spoon (SS)
Boring Location	Scc Platc 2
Boring Elevation (ft)	100 **Date:** 9/9/2022

Sample # /RUN #	Sampling Method	Rimac Qu (tsf)	Sample Recovery (in)/%	Moisture Content (%)	Driving Resistance Blows/Ft (N)	Depth (ft)	Sample Depth	Graphic	Soil Description	Elevation (ft)
						0.5		Rock	Pushed Rock - No Recovery	99.50
						1.0				99.00
1	SS	N/A	2	14.7	7	1.5			**Brown Sandy Clay (SC)**	98.50
						2.0				98.00
						2.5		CL	**Dark Brown Clay (CL)**	97.50
						3.0			Stiff	97.00
						3.5				96.50
2	SS	1.69	20	16.7	7	4.0			**Dark Brown Clay (CL)**	96.00
						4.5			**Unit Weight 141.9 pcf**	95.50
						5.0			**Brown Clay (CL)**	95.00
						5.5			Hard, **Unit Weight 128.5 pcf**	94.50
						6.0		CL		93.50
3	SS	5.94	12	13.1	23	6.5				#REF!
						7.0				93.00
						7.5			**Brown and Gray Sandy Silty Clay (SC)**	92.50
						8.0				92.00
						8.5			**Gray Silty Sandy Clay (CL)**	91.50
4	SS	4.54	24	18.0	22	9.0			With Gravel, Stiff	91.00
						9.5			**Unit Weight 147.1 pcf**	90.50
						10.0			With Gravel, Hard, Pushed Rock	90.00
						10.5			**Unit Weight 145.1 pcf**	89.50
						11.0				89.00
5	SS	N/A	6	19.1	13	11.5				88.50
						12.0			With Gravel	88.00
						12.5			**Brown and Gray Silty Clay (CL)**	87.50
						13.0			With Gravel, Stiff	87.00
						13.5				86.50
6	SS	N/A	6	28.0	12	14.0			**Brown and Gray Sandy Silty Clay (SC)**	86.00
						14.5			With Gravel,Stiff	85.50
						15.0		SC		85.00
						15.5			**Brown and Gray Silty Sandy Clay (CL)**	84.50
						16.0			Hard	84.00
7	SS	1.48	10	13.4	17	16.5			Unit Weight 147.6 pcf	83.50
						17.0				83.00
						17.5			**Gray Sandy Silty Clay (SC)**	82.50
						18.0			Very Stiff	82.00
						18.5			**Unit Weight 140.1 pcf**	81.50
8	SS	4.99	10	15.5	15	19.0				81.00
						19.5			Pushed Rock	80.50
						20.0		SC	**Gray Sandy Silty Clay (SC)**	80.00
						20.5			With Gravel	79.50
						21.0				79.00
9	SS	N/A	6	17.2	17	21.5				78.50
						22.0			**Gray Silty Clay w/ Gravel (CL)**	78.00
						22.5				77.50
						23.0				77.00
						23.5				76.50
10	SS	1.69	12	10.2	9	24.0				76.00
						24.5		CL		75.50
						25.0				75.00
						25.5			Very Stiff	74.50
						26.0			**Unit Weight 147.5 pcf**	74.00
11	SS	1.20	14	11.1	14	26.5				73.50
						27.0				73.00
						27.5			**Gray Sandy Clay (SC)**	72.50
						28.0			Hard	72.00
						28.5		SC	**Unit Weight 139.9 pcf**	71.50
12	SS	4.82	10	11.8	15	29.0				71.00
						29.5				70.50
						30.0		Rock	All Rock, No recovery	70.00

End of Boring 60'
Water Level While Drilling : Dry
Water Level After Drilling : Dry
Cave In Depth : None
Note: Soil group symbol and group name are determined based on visual classification. Plasticity index and liquid limit were estimated using ASTM D2488 due to insufficient material availability

NASHnal SOIL TESTING

23856 W. Andrew Rd., Unit 103, Plainfield

BOREHOLE LOG — DRAFT LOG

Number B-5

Plate #7-1

Client: IDOT
Location: Butterfield Rd.@ Llyod STA. 586+48.52
Job Number: 2022-1264-01T (D-91-078-21)
Drill Rig Type: Geoprobe 7822 DT
Sampler Type: Split Spoon (SS)
Boring Location: See Plate 2
Boring Elevation (ft): 100 Date: 9/9/2022

Sample # /RUN #	Sampling Method	Rimac Qu (tsf)	Sample Recovery (in)/%	Moisture Content (%)	Driving Resistance Blows/Ft (N)	Depth (ft)	Sample Depth	Graphic	Soil Description	Elevation (ft)
						30.5		Rock	Pushed Rock - No Recovery	69.50
						31.0			**Brown Sandy Clay (SC)**	69.00
						31.5		SC		68.50
						32.0				68.00
						32.5			**Dark Brown Clay (CL)**	67.50
						33.0			Stiff	67.00
						33.5		CL		66.50
13	SS	2.14	14	18.9	11	34.0			Hard	66.00
						34.5			**Unit Weight 141.9 pcf**	65.50
						35.0			**Brown Clay (CL)**	65.00
						35.5			Hard, **Unit Weight 128.5 pcf**	64.50
						36.0		CL		63.50
						36.5				#REF!
						37.0				63.00
						37.5		SC	**Brown and Gray Sandy Silty Clay (SC)**	62.50
						38.0				62.00
14	SS	N/A	14	20.1	20	38.5			**Gray Silty Sandy Clay (CL)**	61.50
						39.0			With Gravel, Stiff	61.00
						39.5			**Unit Weight 147.1 pcf**	60.50
						40.0		CL	With Gravel, Hard, Pushed Rock	60.00
						40.5			**Unit Weight 145.1 pcf**	59.50
						41.0				59.00
						41.5				58.50
						42.0			With Gravel	58.00
						42.5			**Brown and Gray Silty Clay (CL)**	57.50
						43.0		CL	With Gravel, Stiff	57.00
						43.5				56.50
15	SS	N/A	8	9.5	44	44.0			**Brown and Gray Sandy Silty Clay (SC)**	56.00
						44.5		SC	With Gravel,Stiff	55.50
						45.0				55.00
						45.5			**Brown and Gray Silty Sandy Clay (CL)**	54.50
						46.0		CL	Hard	54.00
						46.5			Unit Weight 147.6 pcf	53.50
						47.0				53.00
						47.5			**Gray Sandy Silty Clay (SC)**	52.50
						48.0			Very Stiff	52.00
						48.5			**Unit Weight 140.1 pcf**	51.50
16	SS	2.68	10	14	25	49.0				51.00
						49.5		SC	Pushed Rock	50.50
						50.0			**Gray Sandy Silty Clay (SC)**	50.00
						50.5			With Gravel	49.50
						51.0				49.00
						51.5				48.50
						52.0			**Gray Silty Clay w/ Gravel (CL)**	48.00
						52.5				47.50
						53.0				47.00
						53.5				46.50
17	SS	4.74	14	18.7	31	54.0				46.00
						54.5		CL		45.50
						55.0				45.00
						55.5			Very Stiff	44.50
						56.0			**Unit Weight 147.5 pcf**	44.00
						56.5				43.50
						57.0				43.00
						57.5			**Gray Sandy Clay (SC)**	42.50
						58.0			Hard	42.00
						58.5		SC	**Unit Weight 139.9 pcf**	41.50
18	SS	N/A	6	11.8	34	59.0				41.00
						59.5				40.50
						60.0		Rock	All Rock, No recovery	40.00

End of Boring 60'
Water Level While Drilling : Dry
Water Level After Drilling : Dry
Cave In Depth : None
Note: Soil group symbol and group name are determined based on visual classification. Plasticity index and liquid limit were estimated using ASTM D2488 due to insufficient material availability

62N32-SHT-STR-DMS-008-B0R-1

NST NASHnal SOIL TESTING
23856 W. Andrew Rd., Unit 103, Plainfield

BOREHOLE LOG — DRAFT LOG

Number B-6

Plate #8-1

Client	IDOT
Location	DMS-3 STA. 863+05.00
Job Number	2022-1264-01T (D-91-078-21)
Drill Rig Type	Geoprobe 7822 DT
Sampler Type	Split Spoon (SS)
Boring Location	See Plate 2 (25' Offset from Survey Point)
Boring Elevation (ft)	100 **Date:** 9/7/2022

Sample # /RUN #	Sampling Method	Rimac Qu (tsf)/ RQD%	Sample Recovery (in)/%	Moisture Content (%)	Driving Resistance Blows/Ft (N)	Depth (ft)	Sample Depth	Graphic	Soil Description	Elevation (ft)
						0.5		AS/CONC	3" Asphalt/7" Concrete/2" Aggregate	99.50
						1.0		CL	**Brown Silty Sandy Clay (CL)**	99.00
1	SS	N/A	14	11.8	10	1.5		CL	**Unit Weight 123.8 pcf**	98.50
						2.0				98.00
						2.5		CL	**Light Brown Silty Sandy Clay (CL)**	97.50
						3.0		CL	Hard, Unit Weight 114.4 pcf	97.00
						3.5			**Brown Sandy Silty Clay w/ Gray Streaks (SC)**	96.50
2	SS	3.50	12	15.8	15	4.0		SC	Hard	96.00
						4.5		SC	**Unit Weight 119.3 pcf**	95.50
						5.0		CL	**Brown Silty Clay w/ Lt. Gray Streaks(CL)**	95.00
						5.5		CL	Trace Sand and Gravel, Very Stiff, **Unit Weight 119.3 pcf**	94.50
						6.0			**Dark Brown Silty Clay (CL)**	94.00
3	SS	4.74	12	14.5	15	6.5		CL	Hard	93.50
						7.0		CL	**Unit Weight 125.2 pcf**	93.00
						7.5			**Brown Silty Clay (CL)**	92.50
						8.0		CL	Very Stiff, **Unit Weight 114.4 pcf**	92.00
						8.5			With Gravel	91.50
4	SS	2.89	18	15.0	17	9.0		CL	Top 4" Sand & Gravel, **Unit Weight 124.0 pcf**	91.00
						9.5		CL	Rock Stuck in SS	90.50
						10.0		CL	**Unit Weight 127.1 pcf**	90.00
						10.5				89.50
						11.0			**Gray Silty Clay (CL)**	89.00
5	SS	5.98	14	14.2	22	11.5		CL	With Gravel, Top 2" Sand & Gravel, Hard	88.50
						12.0		CL	**Unit Weight 130.7 pcf**	88.00
						12.5		CL	Hard	87.50
						13.0		CL	**Unit Weight 117.3 pcf**	87.00
						13.5				86.50
6	SS	3.92	12	15.5	18	14.0		SM	**Sandy Silt (SM)**	86.00
						14.5		SM	**Unit Weight 122.4 pcf**	85.50
						15.0		SM	**Gray Sandy Silt (SM)**	85.00
						15.5		SM	Gravel	84.50
						16.0		SM		84.00
7	SS	N/A	10	15.2	15	16.5		SM		83.50
						17.0		SM		83.00
						17.5		SM		82.50
						18.0		SM	Gravel	82.00
						18.5		SM	Rock Stuck in SS	81.50
8	SS	N/A	6	12.3	15	19.0		SM		81.00
						19.5		SM		80.50
						20.0		CL	**Brown and Gray Silty Clay (CL)**	80.00
						20.5		CL	Stiff	79.50
						21.0		CL	**Unit Weight 136.8 pcf**	79.00
9	SS	5.77	12	13.6	19	21.5		CL		78.50
						22.0		CL		78.00
						22.5		CL		77.50
						23.0		CL	Very Stiff	77.00
						23.5		CL		76.50
10	SS	4.95	12	16.5	19	24.0		CL		76.00
						24.5		CL		75.50
						25.0		SC	**Brown and Tan Sandy Silty Clay (SC)**	75.00
						25.5		SC	Very Stiff	74.50
						26.0		SC	**Unit Weight 129.0 pcf**	74.00
11	SS	N/A	14	19.3	24	26.5		SC		73.50
						27.0		SC		73.00
						27.5		SC	**Gray Sandy Clay (SC)**	72.50
						28.0		SC	Very Stiff	72.00
						28.5		SC	**Unit Weight 127.4 pcf**	71.50
12	SS	N/A	14	17.7	23	29.0		SC		71.00
						29.5		SC		70.50
						30.0		SC	Tan Sandy Clay w/ Gravel (SC)	70.00

End of Boring 60'
Water Level While Drilling : Dry
Water Level After Drilling : Dry
Cave In Depth : None

Note: Soil group symbol and group name are determined based on visual classification. Plasticity index and liquid limit were estimated using ASTM D2488 due to insufficient material availability

NST NASHnal SOIL TESTING
23856 W. Andrew Rd., Unit 103, Plainfield

BOREHOLE LOG — DRAFT LOG

Number B-6

Plate #8-2

Client	IDOT
Location	DMS-3 STA. 863+05.00
Job Number	2022-1264-01T (D-91-078-21)
Drill Rig Type	Geoprobe 7822 DT
Sampler Type	Split Spoon (SS)
Boring Location	See Plate 2 (25' Offset from Survey Point)
Boring Elevation (ft)	100 **Date:** 9/7/2022

Sample # /RUN #	Sampling Method	Rimac Qu (tsf)/ RQD%	Sample Recovery (in)/%	Moisture Content (%)	Driving Resistance Blows/Ft (N)	Depth (ft)	Sample Depth	Graphic	Soil Description	Elevation (ft)
						30.5		AS/CONC	3" Asphalt/7" Concrete/2" Aggregate	69.50
						31.0		CL	**Brown Silty Sandy Clay (CL)**	69.00
						31.5		CL	**Unit Weight 123.8 pcf**	68.50
						32.0				68.00
						32.5		CL	**Light Brown Silty Sandy Clay (CL)**	67.50
						33.0		CL	Hard, Unit Weight 114.4 pcf	67.00
						33.5			**Brown Sandy Silty Clay w/ Gray Streaks (SC)**	66.50
13	SS	N/A	6	19.5	21	34.0		SC	Hard	66.00
						34.5		SC	**Unit Weight 119.3 pcf**	65.50
						35.0		CL	**Brown Silty Clay w/ Lt. Gray Streaks(CL)**	65.00
						35.5		CL	Trace Sand and Gravel, Very Stiff, **Unit Weight 119.3 pcf**	64.50
						36.0			**Dark Brown Silty Clay (CL)**	64.00
						36.5		CL	Hard	63.50
						37.0		CL	**Unit Weight 125.2 pcf**	63.00
						37.5			**Brown Silty Clay (CL)**	62.50
						38.0		CL	Very Stiff, **Unit Weight 114.4 pcf**	62.00
						38.5			With Gravel	61.50
14	SS	1.24	18	16.4	12	39.0		CL	Top 4" Sand & Gravel, **Unit Weight 124.0 pcf**	61.00
						39.5		CL	Rock Stuck in SS	60.50
						40.0		CL	**Unit Weight 127.1 pcf**	60.00
						40.5				59.50
						41.0			**Gray Silty Clay (CL)**	59.00
						41.5		CL	With Gravel, Top 2" Sand & Gravel, Hard	58.50
						42.0		CL	**Unit Weight 130.7 pcf**	58.00
						42.5		CL	Hard	57.50
						43.0		CL	**Unit Weight 117.3 pcf**	57.00
						43.5				56.50
15	SS	2.89	8	8.9	78	44.0		SM	**Sandy Silt (SM)**	56.00
						44.5		SM	**Unit Weight 122.4 pcf**	55.50
						45.0		SM	**Gray Sandy Silt (SM)**	55.00
						45.5		SM	Gravel	54.50
						46.0		SM		54.00
						46.5		SM		53.50
						47.0		SM		53.00
						47.5		SM		52.50
						48.0		SM	Gravel	52.00
						48.5		SM	Rock Stuck in SS	51.50
16	SS	1.65	24	16.3	12	49.0		SM		51.00
						49.5		SM		50.50
						50.0		CL	**Brown and Gray Silty Clay (CL)**	50.00
						50.5		CL	Stiff	49.50
						51.0		CL	**Unit Weight 136.8 pcf**	49.00
						51.5		CL		48.50
						52.0		CL		48.00
						52.5		CL		47.50
						53.0		CL	Very Stiff	47.00
						53.5		CL		46.50
17	SS	2.68	10	12.4	22	54.0		CL		46.00
						54.5		CL		45.50
						55.0		SC	**Brown and Tan Sandy Silty Clay (SC)**	45.00
						55.5		SC	Very Stiff	44.50
						56.0		SC	**Unit Weight 129.0 pcf**	44.00
						56.5		SC		43.50
						57.0		SC		43.00
						57.5		SC	**Gray Sandy Clay (SC)**	42.50
						58.0		SC	Very Stiff	42.00
						58.5		SC	**Unit Weight 127.4 pcf**	41.50
18	SS	N/A	6	15.2	31	59.0		SC		41.00
						59.5		SC		40.50
						60.0		SC	Tan Sandy Clay w/ Gravel (SC)	40.00

End of Boring 60'
Water Level While Drilling : Dry
Water Level After Drilling : Dry
Cave In Depth : None

Note: Soil group symbol and group name are determined based on visual classification. Plasticity index and liquid limit were estimated using ASTM D2488 due to insufficient material availability

62N32-SHT-STR-DMS-009-B0R-2

Bowman 10 S. LaSalle St., Suite 2110 Chicago, Illinois 60603 312-494-0360 www.bowman.com

USER NAME = dofrikhter	DESIGNED - DSO	REVISED -	STATE OF ILLINOIS DEPARTMENT OF TRANSPORTATION	CANTILEVER SIGN STRUCTURES BORING LOGS
	CHECKED - AJN	REVISED -		
PLOT SCALE = 2.0000 ' / in.	DRAWN - DSO	REVISED -		SHEET 9 OF 9 SHEETS
PLOT DATE = 02/22/2024	CHECKED - AJN	REVISED -		

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
365	30	DUPAGE	462	452
		CONTRACT NO. 62N32		
	ILLINOIS	FED. AID PROJECT		

MODEL: Default
FILE NAME: \\il-chic-fs1-vm\new_projects\040058 - IDOT\040058-07-001 (ENG) - PTB 199-016 IL 56\Engineering\500 Drawings\502 CADD Sheets\D162N32-SHT-STR-DMS-009-B0R-2.dgn

02/22/2024 4:10:30 PM

New Structure: The proposed wall is a cast-in-place reinforced concrete cantilever retaining wall. The wall is 85'-0" in length and has a max. exposed height of 2'-3".

Exist. Structure: None.

Benchmark: Chiseled square in East side of concrete mast arm base
Northing: 1,887,214.11
Easting: 1,091,604.96
Elevation: 668.82 (NAVD 88)

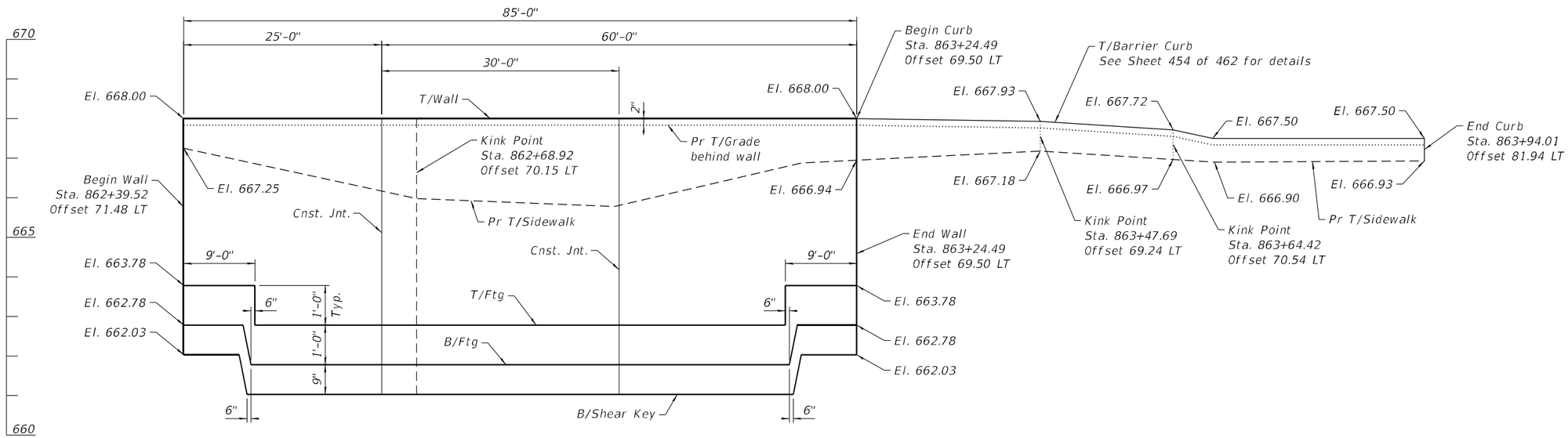
DESIGN SPECIFICATIONS

2020 AASHTO LRFD Bridge Design Specifications, 9th Ed.

DESIGN STRESSES

FIELD UNITS

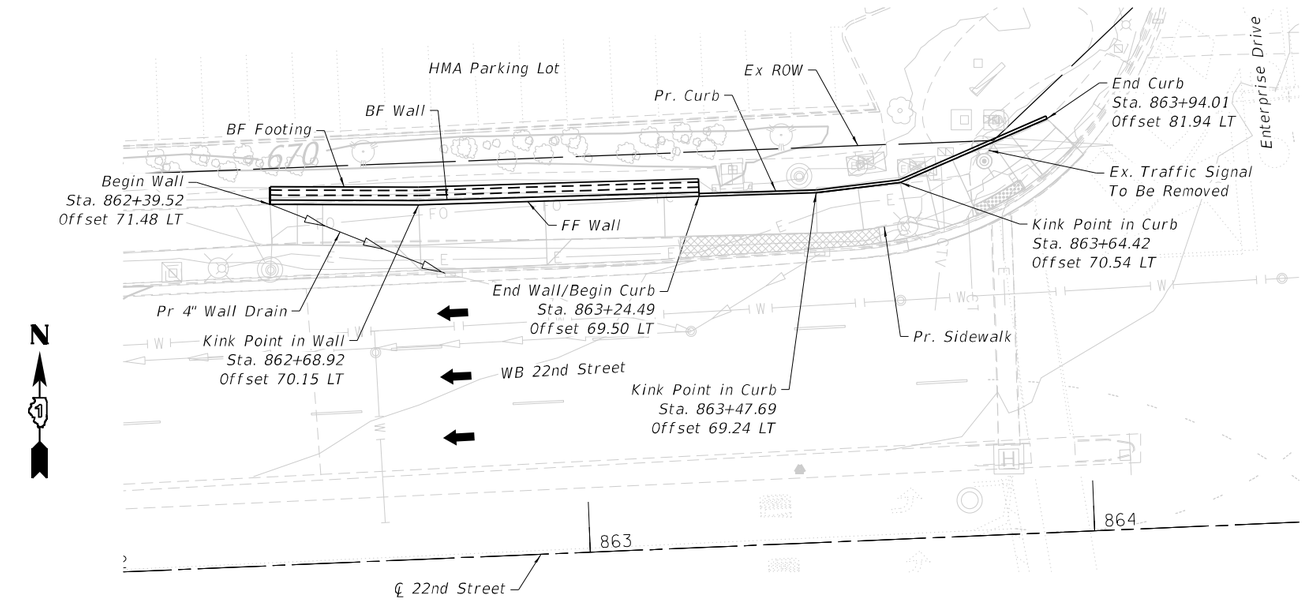
f'c = 3,500 psi (Class SI Concrete)
fy = 60,000 psi (Reinforcement)



ELEVATION

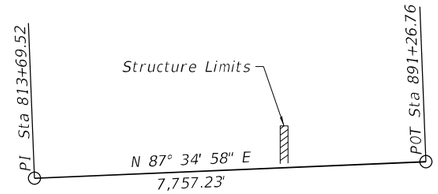
(Unfolded View)
(Looking North at FF Wall)

HOR. SCALE IN FEET 0 5 10
VER. SCALE IN FEET 0 1 2



SCALE IN FEET 0 10 20

PLAN



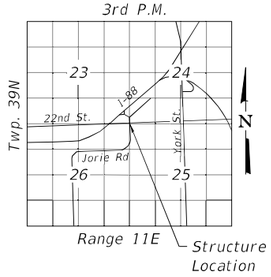
HORIZONTAL ALIGNMENT

℄ 22nd Street

LEGEND

W	Exist. Water Main
	Exist. ROW
E	Exist. Electric
CTV	Exist. Cable
	Existing Storm Sewer
FO	Existing Fiber Optic
	Exist. Manhole
	Exist. Light Pole
	Direction of Traffic

Note:
1. Offsets are measured from ℄ 22nd Street to front face of wall & curb.



LOCATION SKETCH

GENERAL PLAN & ELEVATION
22nd STREET RETAINING WALL
F.A. ROUTE 365 /IL 56
DUPAGE COUNTY
STATION 862+39.52 TO 863+24.49
STRUCTURE NO. XXX-XXXX

62N32-SHT-STR-22RW-001-GPE

Bowman 10 S. LaSalle St., Suite 2110 Chicago, Illinois 60603 312-494-0360 www.bowman.com	USER NAME = dofrikhter	DESIGNED - DSO	REVISED -	STATE OF ILLINOIS DEPARTMENT OF TRANSPORTATION	GENERAL PLAN AND ELEVATION
		CHECKED - AJN	REVISED -		
	PLOT SCALE = 30.0000 ' / in.	DRAWN - DSO	REVISED -		SHEET 1 OF 6 SHEETS
	PLOT DATE = 02/22/2024	CHECKED - AJN	REVISED -		

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
365	30	DUPAGE	462	453
		CONTRACT NO. 62N32		
	ILLINOIS	FED. AID PROJECT		

MODEL: Default
FILE NAME: \\il-chic-fs1-vm\new_projects\040058 - IDOT\040058-07-001 (ENG) - PTB 199-016 IL 56\Engineering\500 Drawings\502 CADD Sheets\D162N32-SHT-STR-22RW-001-GPE.dgn
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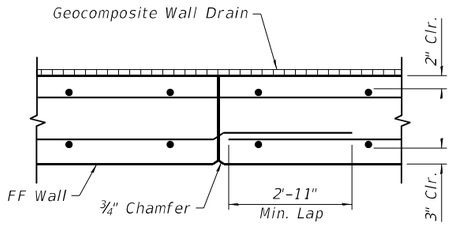
GENERAL NOTES

1. Reinforcement bars designated (E) shall be epoxy coated.
2. All exposed edges of the cast in place concrete wall shall be chamfered ¾".
3. Chamfers on vertical edges of wall shall be continued a minimum of 1'-0" below finished ground level.
4. Contractor shall exercise care during all construction activities and shall utilize appropriate methods of construction to protect properly any structures near the proposed construction limits from damage due to demolition and construction activities.
5. It shall be the Contractor's responsibility to verify the location of all utilities prior to starting contruction. Contact J.U.L.I.E. 800-892-0123.
6. All exposed concrete surfaces shall be sealed.
7. 1/2" PJF shall be placed between concrete wall and existing and proposed walls, sidewalks and steps. Incidental to Concrete Structures.
8. There are existing electrical boxes at proposed site of retaining wall. Contractor shall relocate and maintain any electrical utilities in the work area prior to excavation. Contractor shall coordinate with utility owners prior to starting work.
9. Contractor shall follow all Construction, Site Preparation, Retaining Wall Foundation recommendations per the "Structural Geotechnical Exploration Report For Cantilever Sign Structures & A Retaining Wall" completed by NASHnal Soil Testing, 06/16/2023.

INDEX OF SHEETS

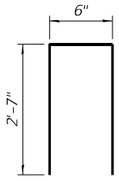


CONSTRUCTION JOINT DETAIL

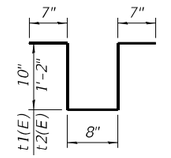
Space construction joints as shown on wall elevation

BILL OF MATERIAL

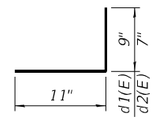
Bar	No.	Size	Length	Shape
d(E)	88	#4	5'-8"	
d1(E)	11	#4	1'-8"	
d2(E)	13	#4	1'-6"	
h(E)	10	#4	27'-11"	
h1(E)	23	#4	32'-11"	
h2(E)	10	#4	29'-8"	
h3(E)	2	#4	18'-11"	
h4(E)	2	#4	20'-8"	
h5(E)	8	#4	6'-11"	
h6(E)	10	#4	8'-8"	
h7(E)	9	#4	19'-6"	
h8(E)	9	#4	21'-3"	
l(E)	90	#4	3'-2"	
t1(E)	86	#4	3'-6"	
t2(E)	4	#4	4'-2"	
v(E)	20	#4	4'-10"	
v1(E)	20	#5	6'-10"	
v2(E)	70	#4	5'-10"	
v3(E)	70	#5	7'-10"	
w(E)	10	#4	6'-5"	
w1(E)	10	#4	8'-1"	
w2(E)	2	#4	28'-4"	
w3(E)	2	#4	30'-0"	
Reinforcement Bars, Epoxy Coated			Lbs.	3,270



BAR d(E)



BARS t1(E), t2(E)



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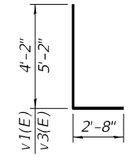
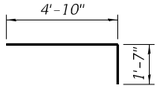
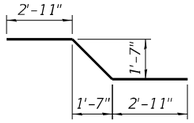


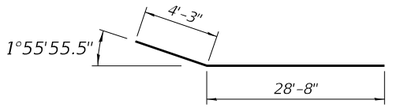
BARS v1(E), v3(E)



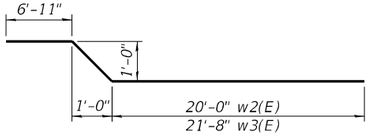
BAR w(E)



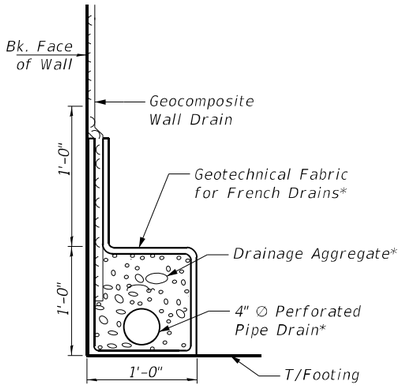
BAR w1(E)



BAR h1(E)
N.T.S.

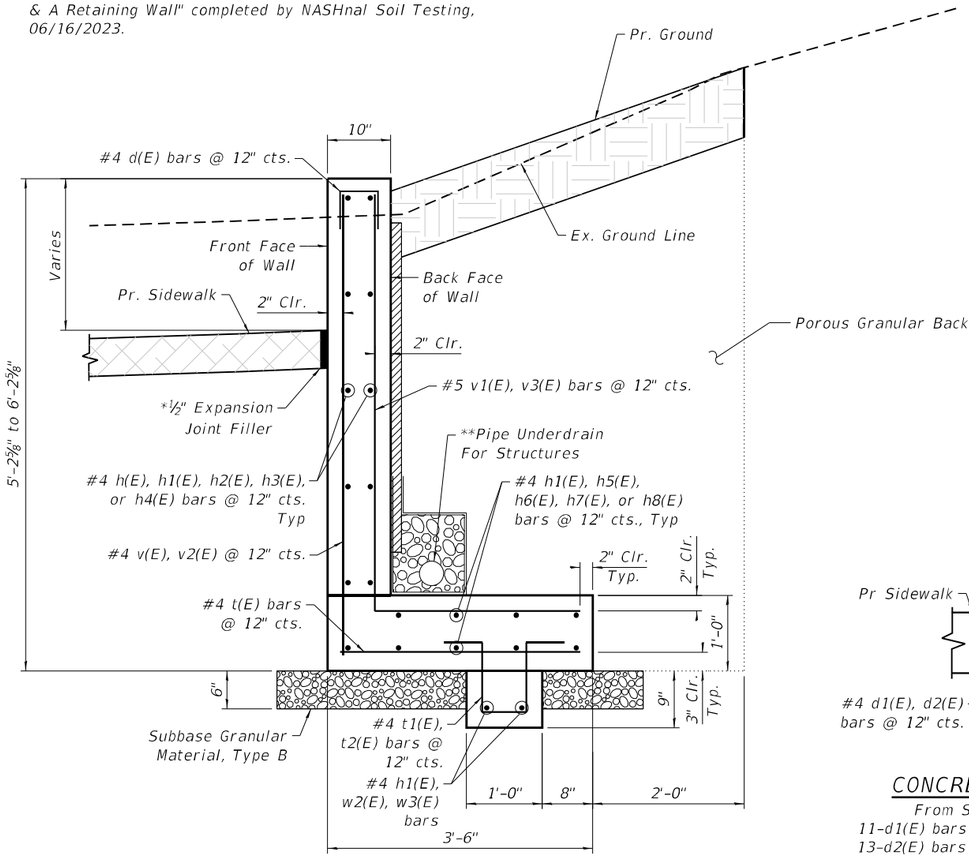


BARS w2(E), w3(E)
N.T.S.



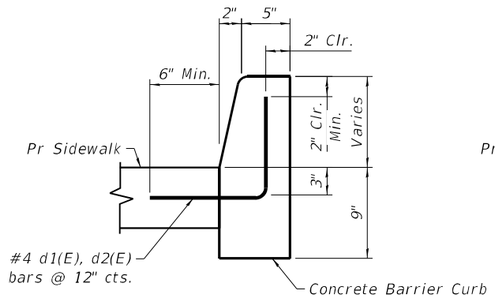
PIPE UNDERDRAIN DETAIL

* Included in the cost of Pipe Underdrain for Structures



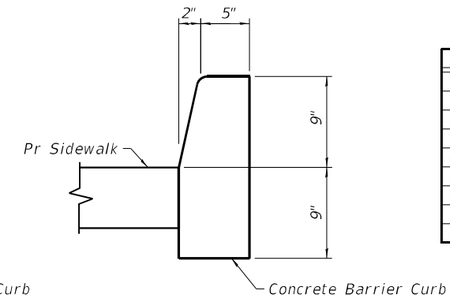
SECTION THRU RETAINING WALL

*Cost included with Concrete Structures (Retaining Wall)
**See Pipe Underdrain Detail



CONCRETE CURB - TYPE B-9.24

From Sta. 863+24.49 to Sta. 863+47.69
11-d1(E) bars from Sta. 863+24.49 to Sta. 863+34.61
13-d2(E) bars from Sta. 863+34.61 to Sta. 863+47.69



CONCRETE CURB - TYPE B-9.24

From Sta. 863+47.69 to Sta. 863+94.01
Per IDOT Standard B.L.R. 28-1

TOTAL BILL OF MATERIAL

ITEM	UNIT	TOTAL
Porous Granular Backfill	Cu Yd	79
Subbase Granular Material, Type B 6"	Sq Yd	65
Structure Excavation	Cu Yd	126
Reinforcement Bars, Epoxy Coated	Pound	3,270
Concrete Structures (Retaining Wall)	Cu Yd	26.6
Concrete Sealer	Sq Ft	269
Geocomposite Wall Drain	Sq Yd	48
Pipe Underdrains for Structures 4"	Foot	125
Combination Concrete Curb and Gutter, Type B-9.24	Foot	72

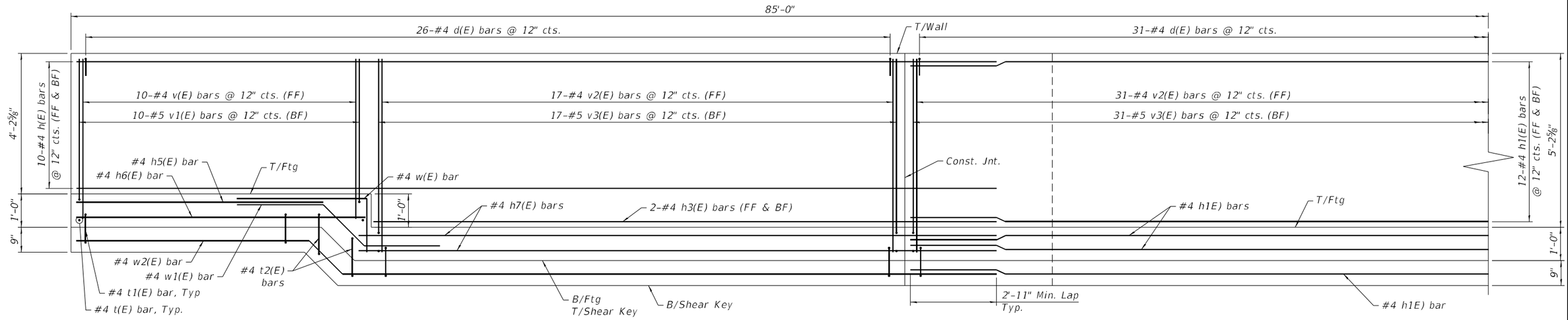
GENERAL NOTES & BILL OF MATERIAL
22nd STREET RETAINING WALL
F.A. ROUTE 365 /IL 56
DUPAGE COUNTY
STATION 862+39.52 TO 863+24.49

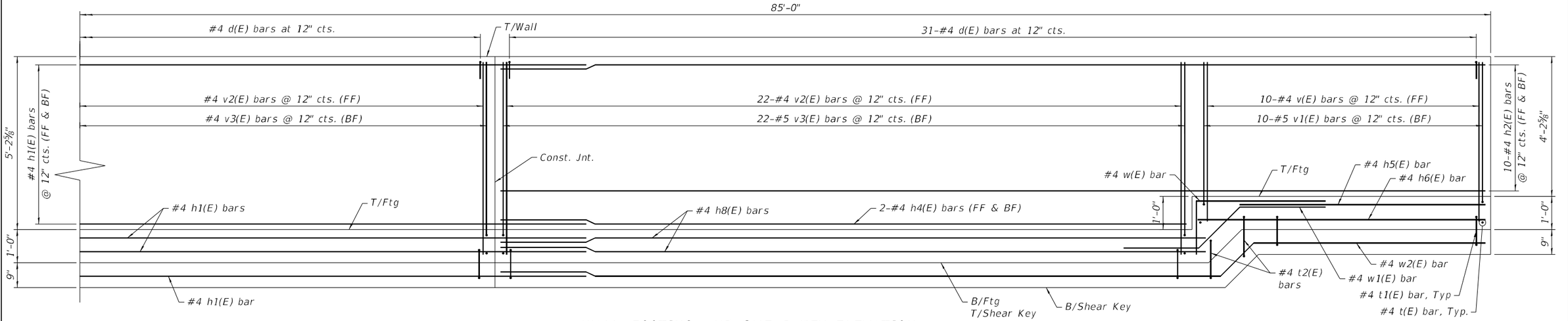
62N32-SHT-STR-22RW-002-GNBOM

Bowman
10 S. LaSalle St., Suite 2110
Chicago, Illinois 60603
312-494-0360
www.bowman.com

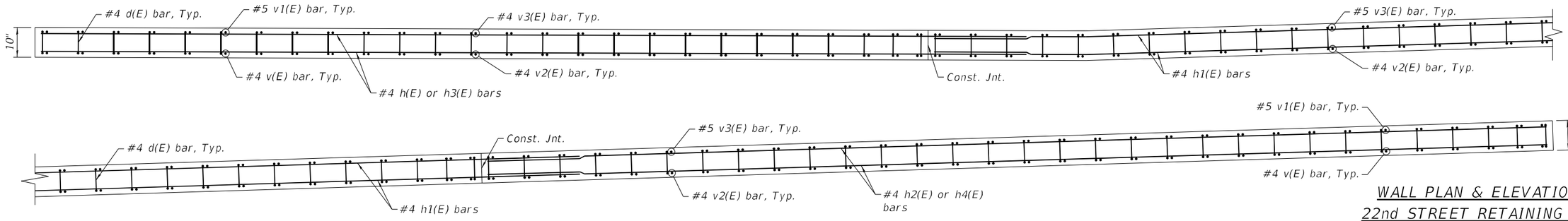
USER NAME = dofrikhter	DESIGNED - DSO	REVISED -	STATE OF ILLINOIS DEPARTMENT OF TRANSPORTATION	GENERAL NOTES AND BILL OF MATERIAL
	CHECKED - AJN	REVISED -		
PLOT SCALE = 30.0000 ' / in.	DRAWN - DSO	REVISED -		SHEET 2 OF 6 SHEETS
PLOT DATE = 02/22/2024	CHECKED - AJN	REVISED -		

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
365	30	DUPAGE	462	454
		CONTRACT NO. 62N32		
		ILLINOIS	FED. AID PROJECT	





WALL, FOOTING, AND SHEAR KEY ELEVATION



WALL PLAN

WALL PLAN & ELEVATION 1
22nd STREET RETAINING WALL
F.A. ROUTE 365 /IL 56
DUPAGE COUNTY
STATION 862+39.52 TO 863+24.49

62N32-SHT-STR-22RW-003-PLNELEV-1

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10 S. LaSalle St., Suite 2110
Chicago, Illinois 60606
312-444-2080
www.bowman.com

USER NAME = dofrikhter	DESIGNED - DSO	REVISED -	STATE OF ILLINOIS DEPARTMENT OF TRANSPORTATION	WALL PLAN & ELEVATION 1	
	CHECKED - AJN	REVISED -			
PLOT SCALE = 30.0000 ' / in.	DRAWN - DSO	REVISED -			
PLOT DATE = 02/22/2024	CHECKED - AJN	REVISED -		SHEET 3 OF 6 SHEETS	

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
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		CONTRACT NO. 62N32		
	ILLINOIS	FED. AID PROJECT		

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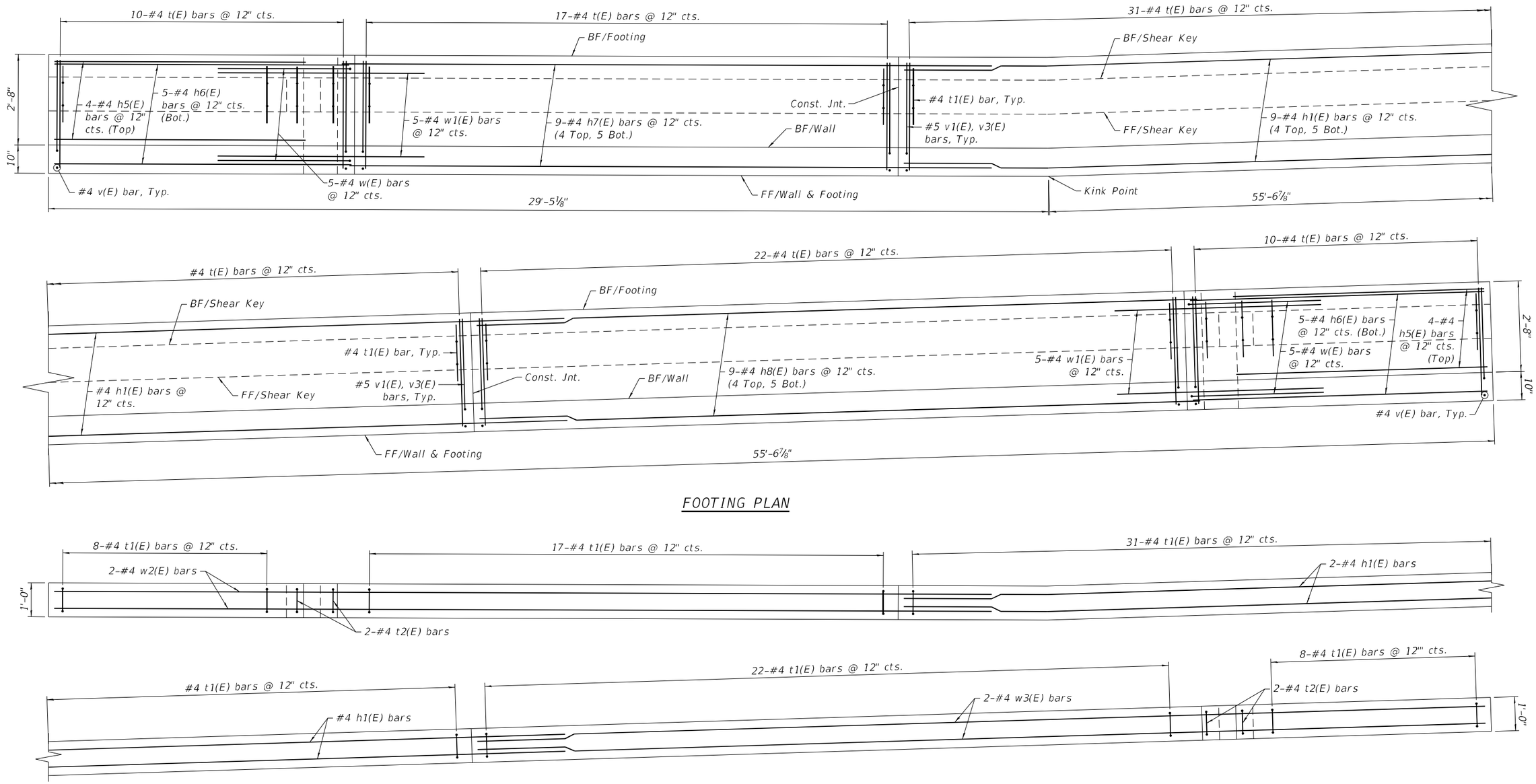

FOOTING PLAN

SHEAR KEY PLAN

WALL PLAN & ELEVATION 2
22nd STREET RETAINING WALL
F.A. ROUTE 365 /IL 56
DUPAGE COUNTY
STATION 862+39.52 TO 863+24.49

62N32-SHT-STR-22RW-004-PLNELEV-2

Bowman 10 S. LaSalle St., Suite 2110 Chicago, Illinois 60603 312-494-0360 www.jbowman.com	USER NAME = dofrikhter	DESIGNED - DSO	REVISED -	STATE OF ILLINOIS DEPARTMENT OF TRANSPORTATION	WALL PLAN AND ELEVATION 2
		CHECKED - AJN	REVISED -		
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	PLOT DATE = 02/22/2024	CHECKED - AJN	REVISED -		

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
365	30	DUPAGE	462	456
		CONTRACT NO. 62N32		
	ILLINOIS	FED. AID PROJECT		

NASHnal SOIL TESTING

23856 W. Andrew Rd., Unit 103, Plainfield, IL

BOREHOLE LOG — DRAFT LOG

Number RWB-1

Plate #3

Client	IDOT
Location	22nd Street
Job Number	2022-1264-01t (D-91-078-21)
Drill Rig Type	Geoprobe 7822 DT
Sampler Type	Split Spoon (SS)
Boring Location	See Plate 2
Boring Elevation (ft)	100 **Date:** 9/13/2022

Sample #	Sampling Method	Rimac Qu (tsf)	Sample Recovery (in)	Moisture Content (%)	Driving Resistance Blows/Ft (N)	Depth (ft)	Sample Depth	Graphic	Soil Description	Elevation (ft)
						0.5		AS	**3" Asphalt**	99.50
						1.0		CONC	**10" Concrete**	99.00
1	SS	N/A	2	9.4	13	1.5		SC	**Black and Brown Sandy Clay (SC)**	98.50
						2.0				98.00
						2.5				97.50
						3.0				97.00
						3.5				96.50
2	SS	5.86	14	19.2	15	4.0		SC	**Brown Sandy Clay (SC)**	96.00
						4.5			**Hard**	95.50
						5.0				95.00
						5.5				94.50
						6.0				94.00
3	SS	5.36	24	20.1	16	6.5				93.50
						7.0				93.00
						7.5				92.50
						8.0				92.00
						8.5				91.50
4	SS	3.13	20	19.1	12	9.0		CL	**Brown and Gray Clay (CL)**	91.00
						9.5			Very Stiff	90.50
						10.0				90.00
						10.5				89.50
						11.0				89.00
5	SS	1.65	24	21.2	10	11.5				88.50
						12.0				88.00
						12.5				87.50
						13.0				87.00
						13.5				86.50
6	SS	1.81	18	18.2	11	14.0		CL	**Gray and Brown Silty Clay (CL)**	86.00
						14.5			Stiff	85.50
						15.0				85.00

End of Boring 15'
Water Level While Drilling : Dry
Water Level After Drilling : Dry
Cave In Depth : None

Note: Soil group symbol and group name are determined based on visual classification. Plasticity index and liquid limit were estimated using ASTM D2488 due to insufficient material availability

NASHnal SOIL TESTING

23856 W. Andrew Rd., Unit 103, Plainfield, IL

BOREHOLE LOG — DRAFT LOG

Number RWB-2

Plate #4

Client	IDOT
Location	22nd Street
Job Number	2022-1264-01t (D-91-078-21)
Drill Rig Type	Geoprobe 7822 DT
Sampler Type	Split Spoon (SS)
Boring Location	See Plate 2
Boring Elevation (ft)	100 **Date:** 9/13/2022

Sample #	Sampling Method	Rimac Qu (tsf)	Sample Recovery (in)	Moisture Content (%)	Driving Resistance Blows/Ft (N)	Depth (ft)	Sample Depth	Graphic	Soil Description	Elevation (ft)
						0.5		AS	**3" Asphalt**	99.50
						1.0		CONC	**10" Concrete**	99.00
1	SS	N/A	8	19.5	14	1.5		SC	**Brown and Black/Gray Sandy Clay (SC)**	98.50
						2.0				98.00
						2.5				97.50
						3.0				97.00
						3.5				96.50
2	SS	4.49	18	19	14	4.0		CL	**Brown Clay (CL)**	96.00
						4.5			**Bard**	95.50
						5.0				95.00
						5.5				94.50
						6.0				94.00
3	SS	5.57	24	19.1	17	6.5			**Brown and Gray Clay (CL)**	93.50
						7.0			Hard	93.00
						7.5				92.50
						8.0				92.00
						8.5				91.50
4	SS	3.42	18	19.7	11	9.0				91.00
						9.5				90.50
						10.0				90.00
						10.5				89.50
						11.0				89.00
5	SS	2.89	24	20.9	10	11.5			Very Stiff	88.50
						12.0				88.00
						12.5				87.50
						13.0				87.00
						13.5				86.50
6	SS	2.89	18	13.7	16	14.0		SC	**Gray and Brown Sandy Clay (SC)**	86.00
						14.5			Very Stiff	85.50
						15.0				85.00

End of Boring 15'
Water Level While Drilling : Dry
Water Level After Drilling : Dry
Cave In Depth : None

Note: Soil group symbol and group name are determined based on visual classification. Plasticity index and liquid limit were estimated using ASTM D2488 due to insufficient material availability

62N32-SHT-STR-22RW-005-BOR-1

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Bowman — 10 S. LaSalle St., Suite 2110, Chicago, Illinois 60603, 312-494-0360, www.bowman.com

USER NAME = dofrikhter	DESIGNED - DSO	REVISED -	
	CHECKED - AJN	REVISED -	
PLOT SCALE = 30.0000 ' / in.	DRAWN - DSO	REVISED -	
PLOT DATE = 02/22/2024	CHECKED - AJN	REVISED -	

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

SOIL BORING LOGS 1

SHEET 5 OF 6 SHEETS

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
365	30	DUPAGE	462	457
		CONTRACT NO. 62N32		
	ILLINOIS	FED. AID PROJECT		

NST NASHnal SOIL TESTING
23856 W. Andrew Rd., Unit 103, Plainfield, IL

BOREHOLE LOG — DRAFT LOG

Number RWB-3

Plate #5

Client	IDOT
Location	22nd Street
Job Number	2022-1264-01t (D-91-078-21)
Drill Rig Type	Geoprobe 7822 DT
Sampler Type	Split Spoon (SS)
Boring Location	See Plate 2
Boring Elevation (ft)	100 **Date:** 9/13/2022

Sample #	Sampling Method	Rimac Qu (tsf)	Sample Recovery (in)	Moisture Content (%)	Driving Resistance Blows/Ft (N)	Depth (ft)	Sample Depth	Graphic	Soil Description	Elevation (ft)
						0.5		AS	**3" Asphalt**	99.50
						1.0		CONC	**9" Concrete**	99.00
1	SS	N/A	2	9.5	13	1.5		SC	**Brown and Black/Gray Sandy Clay (SC)**	98.50
						2.0				98.00
						2.5				97.50
						3.0				97.00
						3.5				96.50
2	SS	3.71	12	19.8	5	4.0		CL	**Brown Clay With Gray Streaks (CL)**	96.00
						4.5			**Hard**	95.50
						5.0				95.00
						5.5				94.50
						6.0				94.00
3	SS	4.95	24	18.1	18	6.5		CL	**Brown and Gray Clay (CL)**	93.50
						7.0			**Hard**	93.00
						7.5				92.50
						8.0				92.00
						8.5				91.50
4	SS	4.54	24	20.2	11	9.0		CL	**Gray Clay (CL)**	91.00
						9.5			Hard	90.50
						10.0				90.00
						10.5				89.50
						11.0				89.00
5	SS	3.26	20	20.9	10	11.5		CL		88.50
						12.0				88.00
						12.5				87.50
						13.0				87.00
						13.5				86.50
6	SS	N/A	0	11.9	35	14.0		Rock	**Rock**	86.00
						14.5				85.50
						15.0				85.00

End of Boring 15'
Water Level While Drilling : Dry
Water Level After Drilling : Dry
Cave In Depth : None

Note: Soil group symbol and group name are determined based on visual classification. Plasticity index and liquid limit were estimated using ASTM D2488 due to insufficient material availability

NST NASHnal SOIL TESTING
23856 W. Andrew Rd., Unit 103, Plainfield, IL

BOREHOLE LOG — DRAFT LOG

Number RWB-4

Plate #6

Client	IDOT
Location	22nd Street
Job Number	2022-1264-01t (D-91-078-21)
Drill Rig Type	Geoprobe 7822 DT
Sampler Type	Split Spoon (SS)
Boring Location	See Plate 2
Boring Elevation (ft)	100 **Date:** 9/13/2022

Sample #	Sampling Method	Rimac Qu (tsf)	Sample Recovery (in)	Moisture Content (%)	Driving Resistance Blows/Ft (N)	Depth (ft)	Sample Depth	Graphic	Soil Description	Elevation (ft)
						0.5		AS	**3" Asphalt**	99.50
						1.0		CONC	**9" Concrete**	99.00
1	SS	N/A	2	9.7	13	1.5		SC	**Brown and Black/Gray Sandy Clay (SC)**	98.50
						2.0				98.00
						2.5				97.50
						3.0				97.00
						3.5				96.50
2	SS	2.68	18	21.6	9	4.0		CL	**Brown Clay (CL)**	96.00
						4.5			Very Stiff	95.50
						5.0				95.00
						5.5				94.50
						6.0				94.00
3	SS	3.71	24	20.3	14	6.5		CL	**Brown and Gray Clay (CL)**	93.50
						7.0			Hard	93.00
						7.5				92.50
						8.0				92.00
						8.5				91.50
4	SS	4.33	14	19.4	11	9.0		CL		91.00
						9.5				90.50
						10.0				90.00
						10.5				89.50
						11.0				89.00
5	SS	2.27	20	20.9	8	11.5		CL	**Gray Clay (CL)**	88.50
						12.0			Very Stiff	88.00
						12.5				87.50
						13.0				87.00
						13.5				86.50
6	SS	2.47	14	21.6	26	14.0		CL	**Pushed Rock**	86.00
						14.5				85.50
						15.0			Very Stiff	85.00

End of Boring 15'
Water Level While Drilling : Dry
Water Level After Drilling : Dry
Cave In Depth : None

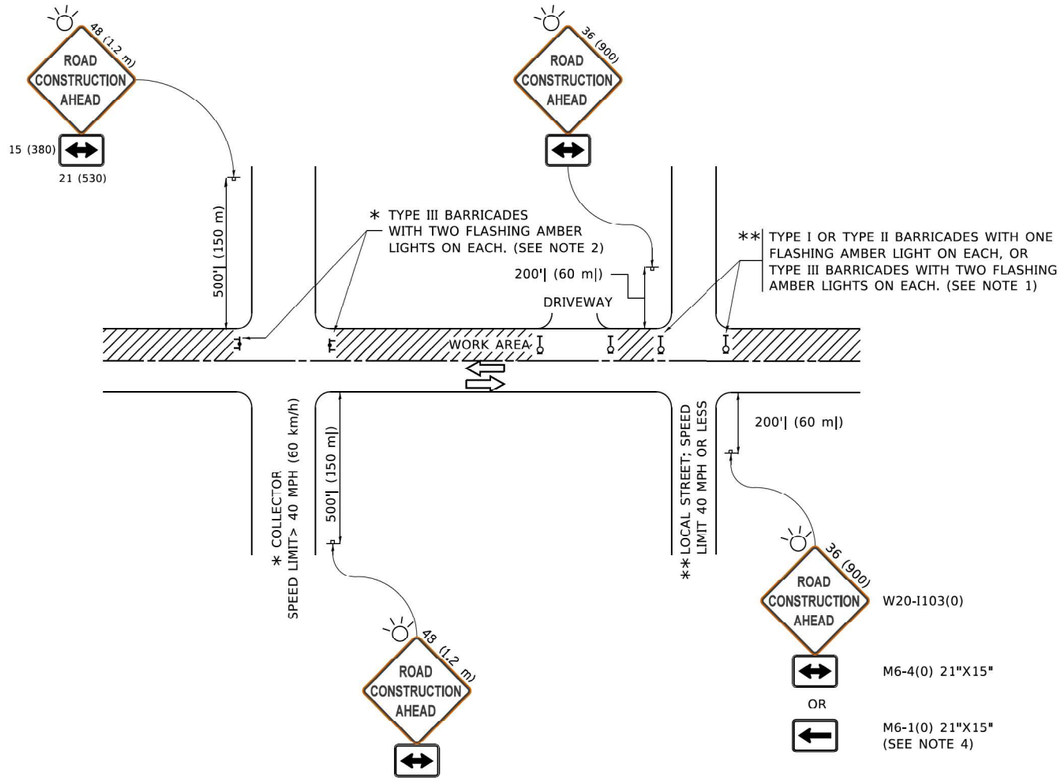
Note: Soil group symbol and group name are determined based on visual classification. Plasticity index and liquid limit were estimated using ASTM D2488 due to insufficient material availability

62N32-SHT-STR-22RW-006-BOR-2

Bowman 10 S. LaSalle St., Suite 2110 Chicago, Illinois 60603 312-494-0360 www.bowman.com

USER NAME = dofrikhter	DESIGNED - DSO	REVISED -	STATE OF ILLINOIS DEPARTMENT OF TRANSPORTATION	SOIL BORING LOGS 2
	CHECKED - AJN	REVISED -		
PLOT SCALE = 30.0000 ' / in.	DRAWN - DSO	REVISED -		SHEET 6 OF 6 SHEETS
PLOT DATE = 02/22/2024	CHECKED - AJN	REVISED -		

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
365	30	DUPAGE	462	458
		CONTRACT NO. 62N32		
	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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USER NAME = footem]	DESIGNED - L.H.A.	REVISED - A. HOUSEH 10-15-96	
	DRAWN -	REVISED - T. RAMMACHER 01-06-00	
PLOT SCALE = 50.0000 ' / in.	CHECKED -	REVISED - A. SCHUETZE 07-01-13	
PLOT DATE = 3/4/2019	DATE - 06-89	REVISED - A. SCHUETZE 09-15-16	

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

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

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

F.A. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
			462	459
	TC-10		CONTRACT NO. 62N32	
	ILLINOIS FED. AID PROJECT			

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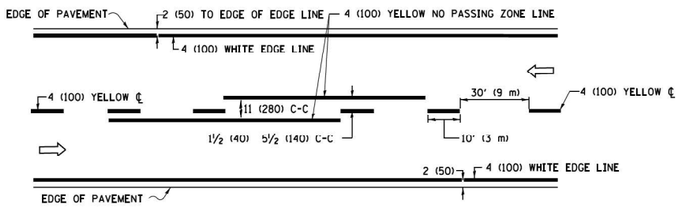
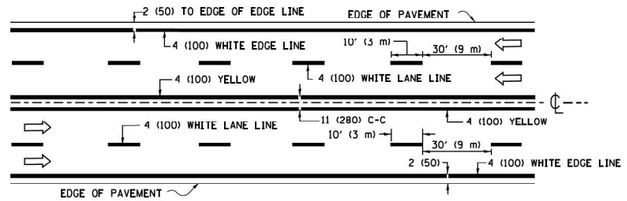
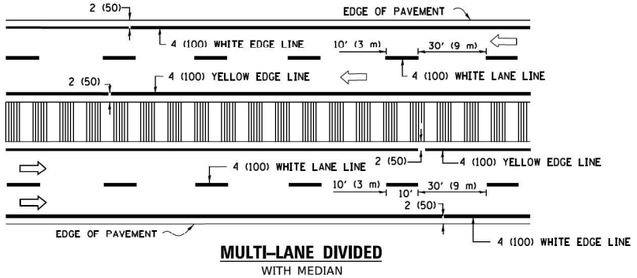
tc10.dgn 3/4/2019 10:27:07 AM User=footemi



2–LANE ROADWAY

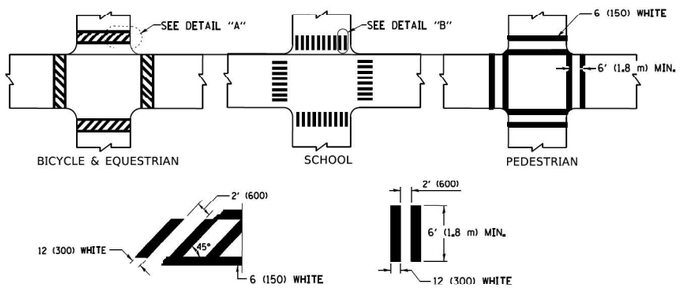


MULTI–LANE UNDIVIDED



MULTI–LANE DIVIDED
WITH MEDIAN

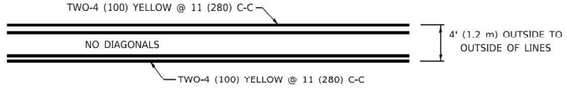
TYPICAL LANE AND EDGE LINE MARKING



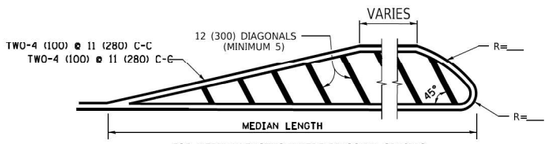
DETAIL "A" **DETAIL "B"**

TYPICAL CROSSWALK MARKING

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



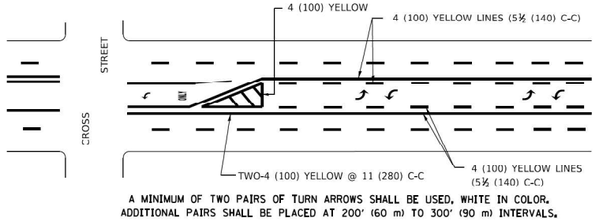
4' (1.2 m) WIDE MEDIANS ONLY



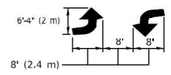
FOR MEDIAN LENGTHS WHERE DIAGONAL SPACING CANNOT BE ATTAINED, USE 5 (FIVE) EQUALLY SPACED DIAGONAL LINES.

DIAGONAL LINE SPACING: 50' (15 m) C-C (LESS THAN 30MPH (50 km/h))
75' (25 m) C-C 30MPH (50 km/h) TO 45MPH (70 km/h))
150' (45 m) C-C (MORE THAN 45MPH (70 km/h))

MEDIANS OVER 4' (1.2 m) WIDE

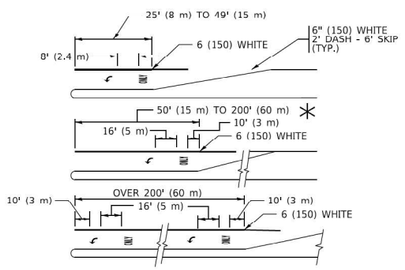


A MINIMUM OF TWO PAIRS OF TURN ARROWS SHALL BE USED, WHITE IN COLOR. ADDITIONAL PAIRS SHALL BE PLACED AT 200' (60 m) TO 300' (90 m) INTERVALS.



MEDIAN WITH TWO–WAY LEFT TURN LANE

TYPICAL PAINTED MEDIAN MARKING

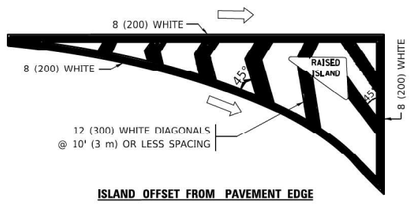


FULL SIZE LETTERS 8' (2.4 m) AND ARROWS SHALL BE USED.
AREA = 15.6 SQ. FT. (1.5 m²) **ONLY** AREA = 20.8 SQ. FT. (1.9 m²)

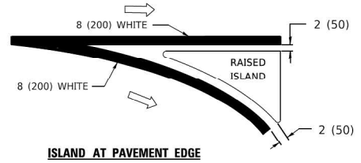
✳ TURN LANES IN EXCESS OF 400' (120 m) IN LENGTH MAY HAVE AN ADDITIONAL SET OF ARROW - "ONLY" INSTALLED MIDWAY BETWEEN THE OTHER TWO SETS OF ARROW - "ONLY".

TYPICAL LEFT (OR RIGHT) TURN LANE

TYPICAL TURN LANE MARKING

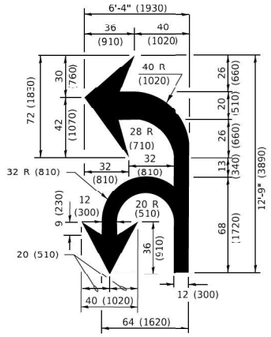


ISLAND OFFSET FROM PAVEMENT EDGE

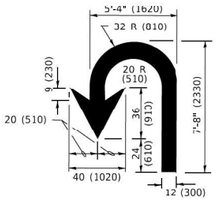


ISLAND AT PAVEMENT EDGE

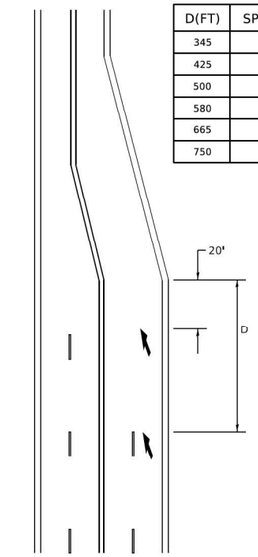
TYPICAL ISLAND MARKING



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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USER NAME = footemj	DESIGNED - EVERS	REVISED -	C. JUCIUS 09-09-09
	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. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
			462	460
	TC–13		CONTRACT NO. 62N32	
		ILLINOIS	FED. AID PROJECT	

tc13.dgn 3/4/2019 10:34:37 AM User=footemj

TURN BAY ENTRANCE AT START OF LANE CLOSURE TAPER

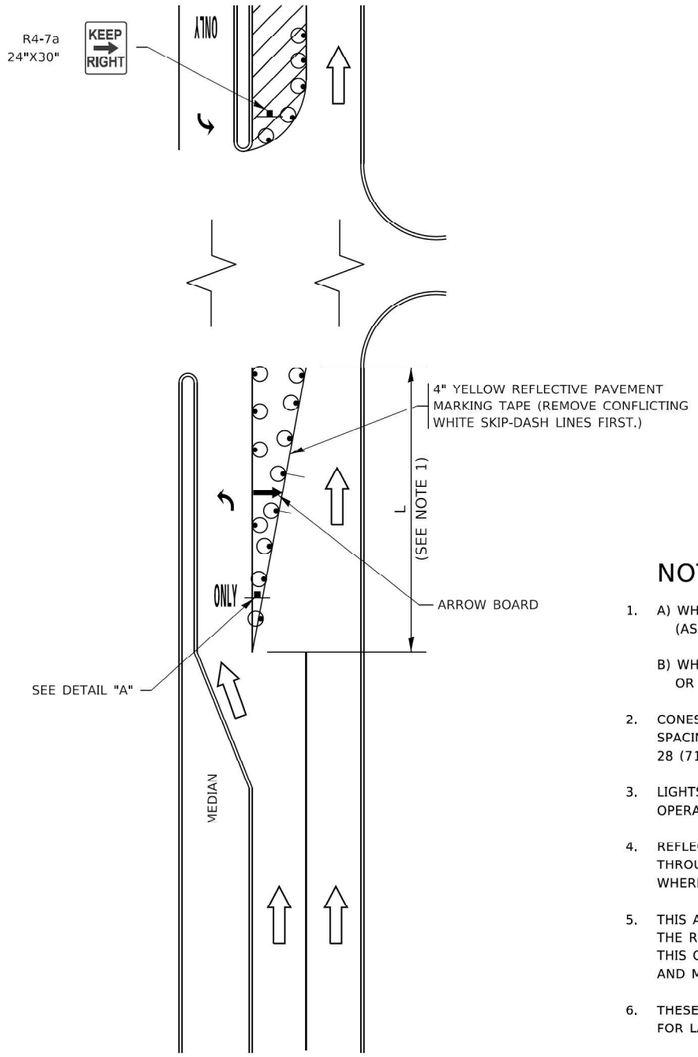


FIGURE 1

LEGEND

- WORK AREA
- LANE OPEN TO TRAFFIC
- ARROW BOARD
- TYPE I OR II BARRICADE OR DRUM WITH STEADY BURN LIGHT
- DRUM WITH STEADY BURN LIGHT
- SIGN ASSEMBLY
- TYPE I OR II CHECK BARRICADE WITH FLASHING LIGHT

NOTES:

1. A) WHEN "L" IS ≤ THE STORAGE LENGTH OF THE TURN LANE (AS SHOWN IN FIG. 1), USE FIGURE 1.

   B) WHEN "L" IS > THE STORAGE LENGTH OF THE TURN LANE OR THE TURN LANE IS WITHIN THE LANE CLOSURE, USE FIGURE 2.

2. CONES MAY BE SUBSTITUTED FOR BARRICADES OR DRUMS AT HALF THE SPACING DURING DAY OPERATIONS. CONES SHALL BE A MINIMUM OF 28 (710) IN HEIGHT.

3. LIGHTS WILL NOT BE REQUIRED ON BARRICADES OR DRUMS FOR DAY OPERATIONS. ALL LIGHTS SHALL BE MONODIRECTIONAL.

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

5. THIS APPLICATION ALSO APPLIES WHEN WORK IS BEING PERFORMED IN THE RIGHT LANE(S) AND THE RIGHT TURN BAY IS TO REMAIN OPEN. UNDER THIS CONDITION, "RIGHT TURN LANE" R3-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.

TURN BAY ENTRANCE WITHIN A LANE CLOSURE

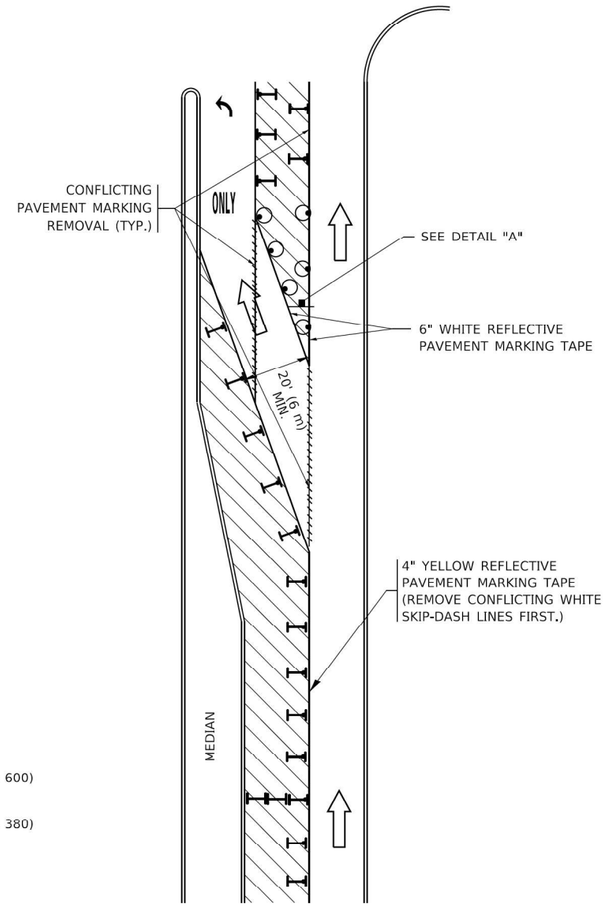
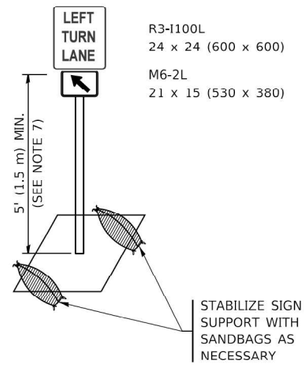


FIGURE 2



DETAIL A

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

MODEL: Default
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AMES Engineering, Inc.
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USER NAME = footem]	DESIGNED - T. RAMMACHER 09-08-94	REVISED - R. BORO 09-14-09	
	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 -	

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

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

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

F.A. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
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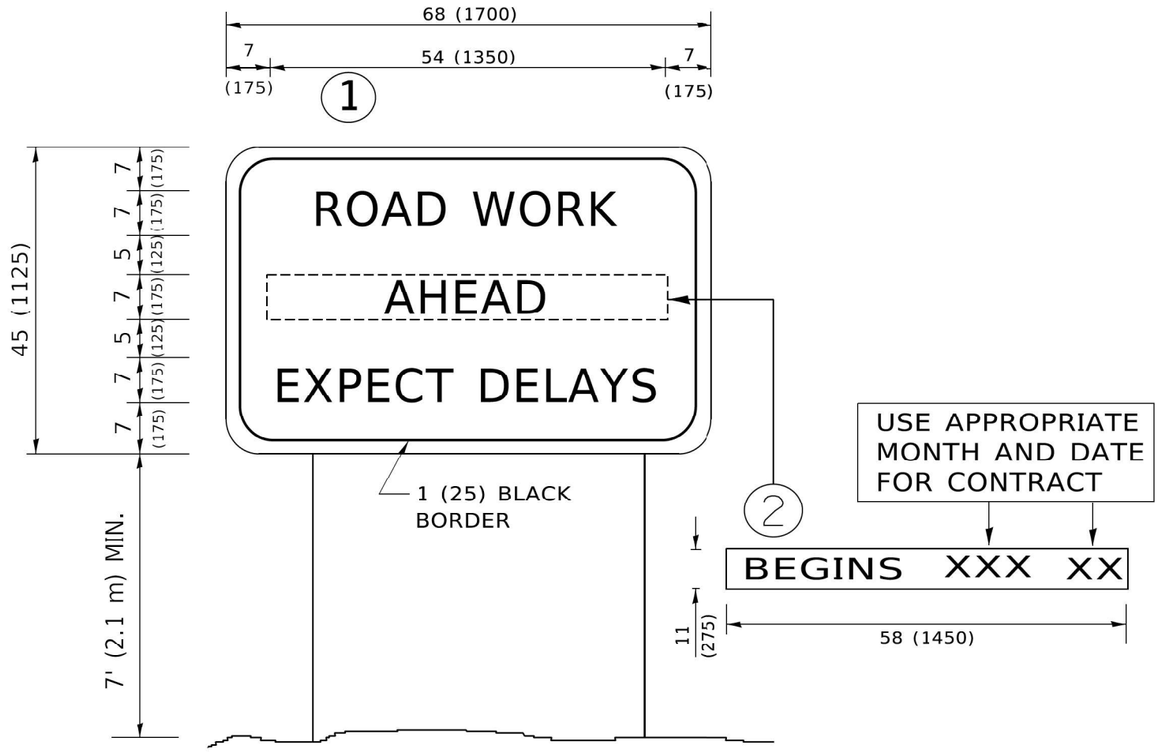
TC-14		CONTRACT NO. 62N32		
	ILLINOIS	FED. AID PROJECT		

tc14.dgn 3/4/2019 10:36:01 AM User=footemi



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.

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USER NAME = footem]	DESIGNED -	REVISED -	R. MIRS 09-15-97
	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

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

ARTERIAL ROAD INFORMATION SIGN

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

F.A. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
			462	462
	TC-22		CONTRACT NO. 62N32	
		ILLINOIS	FED. AID PROJECT	

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