DOCUMENT 009113 - ADDENDUM #1

1.1 PROJECT INFORMATION

- A. Project Name: Downtown Greenville Technology Upgrades
- B. Owner: City of Greenville
- C. Designer: AE Tech Design
- D. Designer Project Number: GREN2202-0200
- E. Date of Addendum: 2022-01-12

1.2 NOTICE TO BIDDERS

- A. This Addendum is issued to all registered plan holders pursuant to the Instructions to Bidders and Conditions of the Contract. This Addendum serves to clarify, revise, and supersede information in the Project Manual, Drawings, and previously issued Addenda. Portions of the Addendum affecting the Contract Documents will be incorporated into the Contract by enumeration of the Addendum in the Owner/Contractor Agreement.
- B. The Bidder shall acknowledge receipt of this Addendum in the appropriate space on the Bid Form.
- C. The date for receipt of bids is unchanged by this Addendum at same time and location.

1.3 ATTACHMENTS

- A. This Addendum includes the following attached Sheets:
 - 1. All previously released technology sheets have been reissued for ease of viewing.
 - 2. Technology Sheet T305 Structured Cabling Network Diagram, dated 2022-01-12 (new).

1.4 REVISIONS TO DRAWING SHEETS

- A. Sheet TG02 Technology General Information
 - 1. The "List of Drawings" has been updated to include new sheet T305.
- B. Sheet TS01 Technology Site Plan Composite
 - 1. "Site General Notes," "Site Keyed Notes," and "Symbol Legend" have been added to the sheet.
- C. Sheet TS02 Technology Site Plan Surveillance
 - 1. "Site General Notes," "Site Keyed Notes," and "Symbol Legend" have been added to the sheet.
- D. Sheet TS03 Technology Site Plan Paging

- 1. "Site General Notes," "Site Keyed Notes," and "Symbol Legend" have been added to the sheet.
- E. Sheet TS04 Technology Site Plan Network
 - 1. "Site General Notes," "Site Keyed Notes," and "Symbol Legend" have been added to the sheet.
- F. Sheet TS05 Technology Site Plan Details
 - 1. Detail 5 "Typical Underground Fiber Entrance" was changed to show conduit pathway on the interior of the building instead of the exterior.
- G. Sheet T301 Structured Cabling General Information
 - 1. Camera descriptions for CM1, CM2, and CM3 in the "Data Count Legend" were changed to match their descriptions on T401.
 - 2. The data drop count for speaker SM1 in the "Data Count Legend" was changed from 1 to 0.
 - 3. The "Cabling Distribution Riser (TYP.)" was modified to show additional fiber connection details.

END OF DOCUMENT 009113

Downtown Greenville Technology Upgrades

City of Greenville 411 S. Lafayette St, Greenville, MI 48838

Project Number: GREN2202-0200

City of Greenville

Downtown Greenville Technology Upgrades
411 S. Lafayette St, Greenville, MI 48838

ISSUE / DATE
2023-01-11 BIDS
2023-01-12 ADDENDUM 1

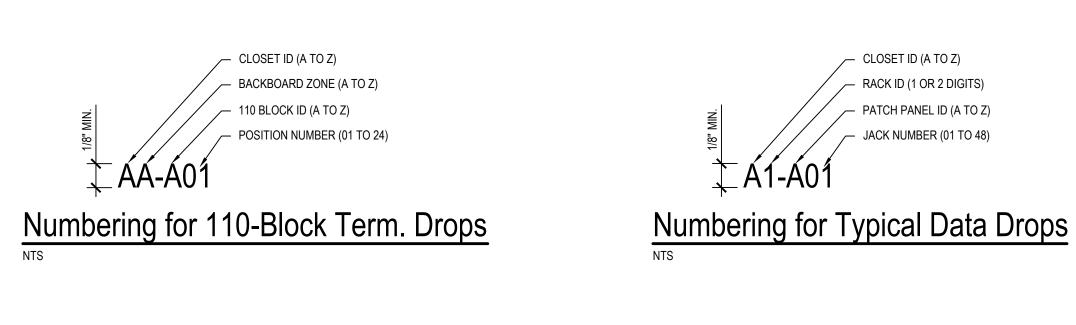
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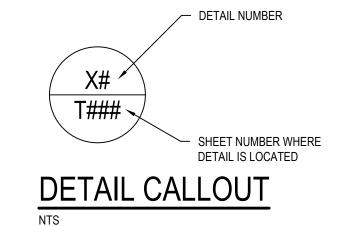
TG01

CABLING AND JACK LEGEND								
DUDDOCE	PREMISE CABLING				JACKS			
PURPOSE	COLOR	RATING	MANUFACTURER	MODEL	TR COLOR	WA COLOR	MANUFACTURER	MODEL
COPPER BACKBONE					RED	RED		CJ688TGRD
WIRELESS ACCESS POINTS					YELLOW	YELLOW		CJ688TGYL
PAGING	BLUE				GREEN	GREEN		CJ688TGGR
SURVEILLANCE CAMERAS		BLUE PLENUM	GENERAL CABLE	GENSPEED 6000	VIOLET	VIOLET	PANDUIT	CJ688TGVL
RESERVED					BLACK	BLACK		CJ688TGBL
POTS LINES					GRAY	GRAY	1	CJ688TGIG
GENERAL PURPOSE					WHITE	WHITE	1	CJ688TGWH

FIBER LEGEND					
PURPOSE	TYPE	RATING	MANUFACTURER	MODEL	
OOOR/OUTDOOR	12 STRAND, SINGLE-MODE (O2)	N/A	CORNING	ALTOS LITE LOOSE TUBE, GEL FREE, SINGLE-JACKET, SINGLE-ARMORED CABLE	
TCH CORD		N/A	UBIQUITI	UF-SM-PATCH-UPC-APC, UF-SM-PATCH-APC-APC	

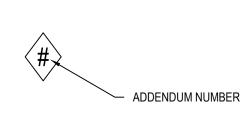
COPPER PATCH CORD LEGEND				
PURPOSE	COLOR			
GENERAL DATA	WHITE			
WIRELESS ACCESS POINTS	YELLOW			
SURVEILLANCE CAMERAS	VIOLET			
PAGING	GREEN			

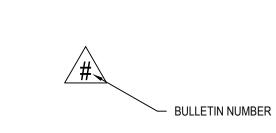




. USED ON TECHNOLOGY FLOOR PLANS TO

OF COMPONENTS ELEVATION ON ANOTHER



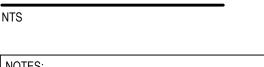


BULLETIN TAG

LOCATED NEXT TO A REVISION CLOUD FOR ANY

REVISIONS AFTER CONTRACT HAS BEEN

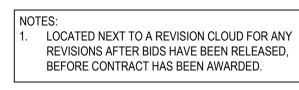


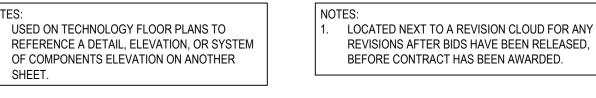


NO ¹	TES: LOCATED NEXT TO A REVISION CLOUD FOR ANY REVISIONS AFTER BIDS HAVE BEEN RELEASED, BEFORE CONTRACT HAS BEEN AWARDED.

NOTES:
1. LOCATED NEXT TO A REVISION CLOUD FOR ANY
REVISIONS AFTER BIDS HAVE BEEN RELEASED,
BEFORE CONTRACT HAS BEEN AWARDED.

KEYED NOTE NUMBER



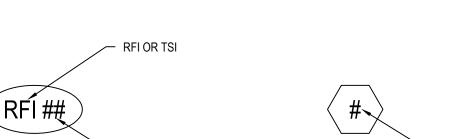


KEYED NOTE TAG

RELATED TO SYMBOL.

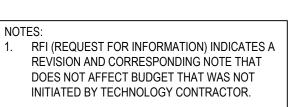
REFERENCE TO CORRESPONDING NOTES ON

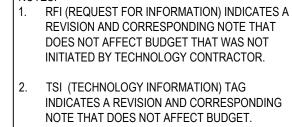
SAME SHEET THAT HAVE MORE INFORMATION

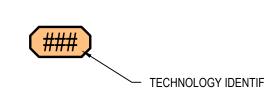


- RFI OR TSI NUMBER

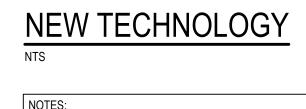








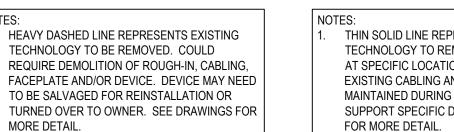




. HEAVY SOLID LINE REPRESENTS NEW TECHNOLOGY. COMPLETE INSTALLATION OFTEN REQUIRES ROUGH-IN, CABLING, FACEPLATE AND/OR DEVICE. SEE DRAWINGS FOR MORE DETAIL.



MORE DETAIL.

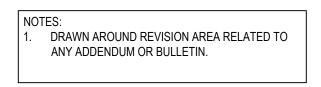


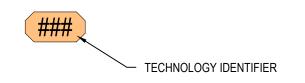
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AWARDED.





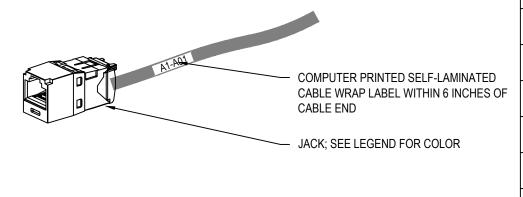




EXISTING TECHNOLOGY

THIN SOLID LINE REPRESENTS EXISTING TECHNOLOGY TO REMAIN. NO WORK REQUIRED AT SPECIFIC LOCATION, BUT COULD REQUIRE EXISTING CABLING AND/OR DEVICES TO BE MAINTAINED DURING CONSTRUCTION TO SUPPORT SPECIFIC DEVICE. SEE DRAWINGS

	RISER LEGEND
SYMBOL	DESCRIPTION
	ZONE OR AREA
	BY OTHERS OR EXISTING
	NEW
[]]	OPTIONAL
	PLUG INTO 120V RECEPTACLE
III	CONNECT TO GROUND
	WIFI CONNECTION
((p))	GENERIC RF CONNECTION
***************************************	BLUETOOTH CONNCETION
	CELLULAR CONNECTION
8	8P8C (RJ45) NETWORK
8K	KEYED 8P8C (RJ45)
88	SHIELDED 8P8C (RJ45)
СМ	COMPONENT VIDEO
CS	COMPOSITE VIDEO
S	SVIDEO
V	HD15 (VGA) VIDEO
D	DVI VIDEO
Н	HDMI VIDEO
LR	RED & WHITE RCA AUDIO
35	3.5MM STEREO AUDIO
14	1/4" STEREO AUDIO
X	XLR MICROPHONE
F	COAX TYPE "F"
N	NEUTRIK NL4MP
U	USB



ABBREVIATION	TERMINOLOGY	
AC	ACCESS CONTROL	
AFF	ABOVE FINISH FLOOR	
ATS	AUTOMATIC TRANSFER SWITCH	
AV OR A/V	AUDIO / VIDEO	
BAS	BUILDING AUTOMATION SYSTEM	
BB	BACKERBOARD	
CIP	CAST IN PLACE	
CLG	CEILING	
СР	CONSOLIDATION POINT	
EC	ELECTRICAL CONTRACTOR	- 1
EF	ENTRANCE FACILITY	
EMT	ELECTRICAL METALLIC TUBING	
EQ	EQUAL	
EQUIV	EQUIVALENT	
ER	EQUIPMENT ROOM	
EXIST	EXISTING	
GFCI	GROUND FAULT CIRCUIT INTERRUPTER	
GRD	GROUND	
HC	HORIZONTAL CROSS-CONNECT	
IC	INTERMEDIATE CROSS-CONNECT	
MC	MAIN CROSS-CONNECT	
NIC	NOT IN CONTRACT	
OC	ON CENTER	
OSP	OUTSIDE PLANT	
PBB	PRIMARY BONDING BUSBAR	
PT	POKE-THROUGH	
RBC	RACK BONDING CONDUCTOR	
SBB	SECONDARY BONDING BUSBAR	
SC	STRUCTURED CABLING	
SCC	STRUCTURED CABLING CONTRACTOR	
TBB	TELECOMMUNICATIONS BONDING BACKBONE	

TELECOMMUNICATIONS ENCLOSURE

TELECOMMUNICATIONS OUTLET

TELECOMMUNICATIONS ROOM

UNLESS NOTED OTHERWISE

UNINTERRUPTIBLE POWER SUPPLY

TYPICAL

WORK AREA

TELECOMMUNICATIONS EQUIPMENT BONDING CONDUCTOR

TG01 Title Sheet TG02 Technology General Information TS01 Technology Site Plan - Composite TS02 Technology Site Plan - Surveillance TS03 Technology Site Plan - Paging TS04 Technology Site Plan - Network TS05 Technology Site Plan Details T301 Structured Cabling General Information	NUMBER	TITLE
TS01 Technology Site Plan - Composite TS02 Technology Site Plan - Surveillance TS03 Technology Site Plan - Paging TS04 Technology Site Plan - Network TS05 Technology Site Plan Details	TG01	Title Sheet
TS02 Technology Site Plan - Surveillance TS03 Technology Site Plan - Paging TS04 Technology Site Plan - Network TS05 Technology Site Plan Details	TG02	Technology General Information
TS03 Technology Site Plan - Paging TS04 Technology Site Plan - Network TS05 Technology Site Plan Details	TS01	Technology Site Plan - Composite
TS04 Technology Site Plan - Network TS05 Technology Site Plan Details	TS02	Technology Site Plan - Surveillance
TS05 Technology Site Plan Details	TS03	Technology Site Plan - Paging
 	TS04	Technology Site Plan - Network
T301 Structured Cabling General Information	TS05	Technology Site Plan Details
	T301	Structured Cabling General Information
T303 Structured Cabling Light Pole Details	T303	Structured Cabling Light Pole Details
T304 Structured Cabling Support Information	T304	Structured Cabling Support Information
T305 Structured Cabling Network Diagram	T305	Structured Cabling Network Diagram
T401 Security Systems General Information	T401	Security Systems General Information
T501 Distributed Systems General Information	T501	Distributed Systems General Information

GENERAL NOTES

- 1. FOR DROPS INSTALLED ABOVE ACCESSIBLE CEILING, PROVIDE MAINTENANCE LOOP AS INDICATED ON TECHNOLOGY SYMBOL LEGEND. CABLE SHALL BE NEATLY COILED IN AN "S" LOOP AND SECURED TO BUILDING STRUCTURE AT DROP LOCATION FOR EASY RELOCATION.
- 2. LOAD THE LATEST AVAILABLE FIRMWARE FOR ALL DEVICES WHEN THEY ARE SUPPLIED FOR THIS PROJECT.

Upgrades Technology 1 City of Greenville

Downtown Greenville 7
411 S. Lafayette St, Greenville, MI 48

Technology General Information

ISSUE / DATE 2023-01-11 BIDS 2023-01-12 ADDENDUM 1 --------DRAWN BY

SHEET NO.

CDB

PROJECT NO.

GREN2202-0200

SITE GENERAL NOTES

- DEMO ANY EXISTING LOW VOLTAGE EQUIPMENT, CABLING, ACCESSORIES, AND MOUNTING HARDWARE ON STREET LIGHT POLES.
- 2. EQUIPMENT BELONGING TO, OR ASSOCIATED WITH MICHIGAN DEPARTMENT OF TRANSPORTATION (MDOT) SHALL NOT BE TOUCHED OR MANIPULATED WITHOUT EXPRESS CONSENT FROM MDOT.
 - 3. LIGHT POLES THAT DO NOT HAVE PATHWAY SHOWN HAVE EXISTING USEABLE
 - PATHWAY. ONLY NEW PATHWAY SHOWN. FINAL FIBER ROUTE TO BE DETERMINED IN FIELD.

SITE KEYED NOTES

- 1 PATHWAY FOR LOW VOLTAGE CABLING TO BE PLOWED.
- 2 24"X36" HANDHOLE.
- 3 (1) 1" INNERDUCT.
- 4 MOUNT LOW VOLTAGE EQUIPMENT TO EXISTING POLE IN PARKING LOT.
- 5 CORE IN TO EXISTING MANHOLE OR LIGHT POLE BASE FOR NEW CONDUIT ENTRY.
- PATHWAY FOR LOW VOLTAGE CABLING TO BE DIRECTIONALLY BORED.

 FIBER DISTRIBUTION AND SPLICE POINT. SEE T303 FOR DETAILS.
- FIBER CONSOLIDATION POINT. SEE T303 FOR DETAILS.

SYMBOL	
	LLGLIND

SYMBOL LEGEND		
SYMBOL	DESCRIPTION	
	NEW PATHWAY	
	EXISTING MANHOLE	
	NEW HANDHOLE	
*	LIGHT POLE	
AP	WIRELESS ACCESS POINT - SEE T301 FOR DETAILS	
СМ	CAMERA - SEE T401 FOR DETAILS	
S1	SPEAKER - SEE T501 FOR DETAILS	

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City of Greenville

Downtown Greenville

411 S. Lafayette St, Greenville, M

ISSUE / DATE 2023-01-11 BIDS 2023-01-12 ADDENDUM 1 ----

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PROJECT NO.
GREN2202-0200

SHEET NO.

SITE GENERAL NOTES

- DEMO ANY EXISTING LOW VOLTAGE EQUIPMENT, CABLING, ACCESSORIES, AND MOUNTING HARDWARE ON STREET LIGHT POLES.
- MOUNTING HARDWARE ON STREET LIGHT POLES.
 - EQUIPMENT BELONGING TO, OR ASSOCIATED WITH MICHIGAN DEPARTMENT OF TRANSPORTATION (MDOT) SHALL NOT BE TOUCHED OR MANIPULATED WITHOUT EXPRESS CONSENT FROM MDOT.
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SITE KEYED NOTES

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- 2 24"X36" HANDHOLE.
- (1) 1" INNERDUCT.
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 FIBER DISTRIBUTION AND SPLICE POINT. SEE T303 FOR DETAILS.
- 8 FIBER CONSOLIDATION POINT. SEE T303 FOR DETAILS.

SYMBOL LEGEND		
SYMBOL	DESCRIPTION	
	NEW PATHWAY	
	EXISTING MANHOLE	
	NEW HANDHOLE	
\	LIGHT POLE	
AP	WIRELESS ACCESS POINT - SEE T301 FOR DETAILS	
СМ	CAMERA - SEE T401 FOR DETAILS	

SPEAKER - SEE T501 FOR DETAILS

251 N. ROSE STREET, SUITE 200, KALAWAZI

own Greenville Technology Upgrades ayette St, Greenville, MI 48838

City of Gr Downto 411 S. Lafay

2023-01-12 ADDENDUM 1
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2023-01-11 BIDS

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PROJECT NO.
GREN2202-0200

SHEET NO.

BENTON

SITE GENERAL NOTES

- DEMO ANY EXISTING LOW VOLTAGE EQUIPMENT, CABLING, ACCESSORIES, AND MOUNTING HARDWARE ON STREET LIGHT POLES.
- 2. EQUIPMENT BELONGING TO, OR ASSOCIATED WITH MICHIGAN DEPARTMENT OF TRANSPORTATION (MDOT) SHALL NOT BE TOUCHED OR MANIPULATED WITHOUT EXPRESS CONSENT FROM MDOT.
 - 3. LIGHT POLES THAT DO NOT HAVE PATHWAY SHOWN HAVE EXISTING USEABLE
 - PATHWAY. ONLY NEW PATHWAY SHOWN. FINAL FIBER ROUTE TO BE DETERMINED IN FIELD.

SITE KEYED NOTES

- 1 PATHWAY FOR LOW VOLTAGE CABLING TO BE PLOWED.
- 2 24"X36" HANDHOLE.
- 3 (1) 1" INNERDUCT.
- 4 MOUNT LOW VOLTAGE EQUIPMENT TO EXISTING POLE IN PARKING LOT.
- 5 CORE IN TO EXISTING MANHOLE OR LIGHT POLE BASE FOR NEW CONDUIT ENTRY.
- PATHWAY FOR LOW VOLTAGE CABLING TO BE DIRECTIONALLY BORED.

 FIBER DISTRIBUTION AND SPLICE POINT. SEE T303 FOR DETAILS.
- 8 FIBER CONSOLIDATION POINT. SEE T303 FOR DETAILS.

CVMBOI	LEGEND

STIVIDOL LEGEND					
SYMBOL	DESCRIPTION				
	NEW PATHWAY				
	EXISTING MANHOLE				
	NEW HANDHOLE				
₩	LIGHT POLE				
AP	WIRELESS ACCESS POINT - SEE T301 FOR DETAILS				
CM	CAMERA - SEE T401 FOR DETAILS				
S1	SPEAKER - SEE T501 FOR DETAILS				

ENIRY.

Greenville Technology Upgrades

City of Greenville

Downtown Greenville Tech
411 S. Lafayette St, Greenville, MI 48838

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CDB
PROJECT NO.

GREN2202-0200 SHEET NO.

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- Paging TS03

SITE GENERAL NOTES

- DEMO ANY EXISTING LOW VOLTAGE EQUIPMENT, CABLING, ACCESSORIES, AND MOUNTING HARDWARE ON STREET LIGHT POLES.
- 2. EQUIPMENT BELONGING TO, OR ASSOCIATED WITH MICHIGAN DEPARTMENT OF TRANSPORTATION (MDOT) SHALL NOT BE TOUCHED OR MANIPULATED WITHOUT EXPRESS CONSENT FROM MDOT.
 - 3. LIGHT POLES THAT DO NOT HAVE PATHWAY SHOWN HAVE EXISTING USEABLE PATHWAY. ONLY NEW PATHWAY SHOWN. FINAL FIBER ROUTE TO BE DETERMINED IN

SITE KEYED NOTES

- 1 PATHWAY FOR LOW VOLTAGE CABLING TO BE PLOWED.
- 2 24"X36" HANDHOLE.
- (4) 41 INNERDUCT
- (1) 1" INNERDUCT.
- 4 MOUNT LOW VOLTAGE EQUIPMENT TO EXISTING POLE IN PARKING LOT.

5 CORE IN TO EXISTING MANHOLE OR LIGHT POLE BASE FOR NEW CONDUIT ENTRY.

- PATHWAY FOR LOW VOLTAGE CABLING TO BE DIRECTIONALLY BORED.
- FIBER DISTRIBUTION AND SPLICE POINT. SEE T303 FOR DETAILS.
- 8 FIBER CONSOLIDATION POINT. SEE T303 FOR DETAILS.

SYMBOL LEGEND					
SYMBOL	DESCRIPTION				
	NEW PATHWAY				
	EXISTING MANHOLE				
	NEW HANDHOLE				
₩	LIGHT POLE				
AP	WIRELESS ACCESS POINT - SEE T301 FOR DETAILS				
CM	CAMERA - SEE T401 FOR DETAILS				
S1	SPEAKER - SEE T501 FOR DETAILS				

251 N. ROSE STREET, SUITE 200, KALAMAZOO, MI 49007 · 269-203-244 · AETECH.DESI

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City of Greenville Downtown Gr 411 S. Lafayette St, G

ISSUE / DATE 2023-01-11 BIDS 2023-01-12 ADDENDUM 1

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TS04

1-1/2" HDPE SDR-11 DUCT, CARLON A9C6N1#NNB. -

INSTALL 36" BELOW GRADE

`_____

Typical Underground Fiber Details

1"=1'-0"

FIBER GENERAL NOTES

- 1. INSTALL ALL HANDHOLES AND DUCTS WITHIN PUBLIC ROAD RIGHT-OF-WAY OR ON OWNER'S PRIVATE PROPERTY.
- ALL DUCTS RUNNING BETWEEN HANDHOLES ARE TO BE CONTINUOUS WITHOUT SPLICES OR COUPLERS.
- 3. ALL HANDHOLES TO HAVE POLYMER CONCRETE LIDS INSCRIBED WITH THE WORD "COMMUNICATIONS"

251 N. ROSE STREET, SUITE 200, KALAMAZOO, MI 49007 · 269-203-2444 · AETECH.DESIGN

City of Greenville

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411 S. Lafayette St, Greenville, MI 48838

Technology Site Plan Details

ISSUE / DATE
2023-01-11 BIDS
2023 01 12 ADDENDU

2023-01-12 ADDENDUM 1
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GREN2202-0200

SHEET NO.

PROVIDE BLANK FACEPLATE.

8/T302, 9/T302, OR 10/T302 DEPENDING ON THE NUMBER OF DROPS.

PROVIDE 20 FEET OF MAINTENANCE LOOP FOR CABLE.

TERMINATE ON 110 BLOCK IN TELECOMMUNICATIONS ROOM (TR). TERMINATE ON PATCH PANEL IN TECH CLOSET.

ROUTE CABLES THROUGH FURNITURE TO FURNITURE FACEPLATE.

3/T302 OR 4/T302 AS NEEDED.

MATCH ELEC. ROUGH-IN HEIGHT, TYPICALLY 8" ABOVE COUNTERTOP.

FACTORY CUT ROUGH-IN PROVIDED IN MODULAR FURNITURE.

PROVIDE ROUGH-IN IN FIXED CASEWORK.

COORDINATE LOCATION W/ EQUIPMENT SERVED.

COORDINATE FINAL LOCATION W/ BUILDING AUTOMATION SYSTEM CONTRACTOR.

3. POLE MOUNTED ON STREET LIGHT POLE. SEE 2/T303 FOR DETAILS.

CABLING SUPPORT LGND NOTES

		CABLING SUPPORT LEGEND						
DROPS	SYMBOL	DESCRIPTION	NOTES					
1	STIVIBOL	DESCRIPTION	ELECTRICAL	LOW VOLTAGE				
1	=======================================	1-1/2" EMT SLEEVE W/ BUSHINGS						
1	IE3I	1-1/2" EMT SLEEVE W/ BUSHINGS; SEAL ENDS W/ FIRE-PROOF PUTTY						
	E	1-1/2" EMT SLEEVE W/ BUSHINGS (UP)						
	□	1-1/2" EMT SLEEVE W/ BUSHINGS (DOWN)						
		4" EMT SLEEVE W/ BUSHINGS						
		STI EZ-PATH SERIES 44 OR APPROVED EQUIVALENT						
		4" EMT SLEEVE W/ BUSHINGS (UP)						
		4" EMT SLEEVE W/ BUSHINGS (DOWN)						

SURFACE MOUNT

FACEPLATE

SEE NOTES

SEE NOTES

SEE NOTES

SEE NOTES

11/T302

SEE NOTES

12/T302

8/T302

13/T302

12/T302

ROUGH-IN

6/T302

6/T302

N/A

6/T302

5/T302

7/T302

N/A

6/T302

6/T302

NOTES

LOW VOLTAGE

3,13

ELECTRICAL

DATA DR DESCRIPTION CAMERA - DOME CAMERA - MULTIVIEW CAMERA - BULLET SPEAKER - POLE MOUNTED

- PANDUIT FIBER ENCLOSURE FCE1U

AS NEEDED

- PANDUIT FAP6WBUDLCZ LC DUPLEX COVERS

DATA LEGEND

DATA DROPS

HEIGHT

18"AFF

18"AFF

FLOOR

SEE ELEC. NOTES

18"AFF

18"AFF

SEE NOTES

144"AFF

N/A

54"AFF

SEE ELEC. NOTES

DATA COUNT LEGEND

DESCRIPTION

DATA DROP - BLANK

DATA DROP - (# INDICATED)

DATA DROP - FLOOR BOX

DATA DROP - FURNITURE

DATA DROP - CASEWORK

WIRELESS ACCESS POINT

ANALOG PHONE DROP

WALL PHONE

FACILITIES DROP

WIRELESS ACCESS POINT - WALL MOUNT

SYMBOL

CM1

48 PORT PATCH PANELS ARE NUMBERED VERTICALLY TO

MATCH PORT NUMBERING ORDER OF 48 PORT NETWORK

DATA DROP - COUNTERHEIGHT

SYMBOL

DEMO

 $\overline{0}$

 $\overline{\#}$

FB (#)

CH (#)

FR (#)

CW (#)

(AP)

(AP)-

(P)

 $\overline{\mathbb{W}}$

(F)

- INFORMATION TAG

DROP TYPE OR QUANTITY

EXISTING

FB #

FR #

CW #

F

DATA DROP SYMBOL

LABEL PATCH PANEL W/ COMPUTER PRINTED

SELF-ADHESIVE LABEL

NEW

0

FR #

CW #

W

18 20 22 24 26 28 30 32

NEW WORK

FACEPLATE

SEE NOTES

SEE NOTES

SEE NOTES

SEE NOTES

11/T302

SEE NOTES

12/T302

8/T302

N/A

13/T302

12/T302

ROUGH-IN

1/T302

1/T302

SEE ELEC. NOTES

1/T302

5/T302

3/T302

N/A

1/T302

N/A

1/T302

N/A

STRUCTURED CABLING NOTES

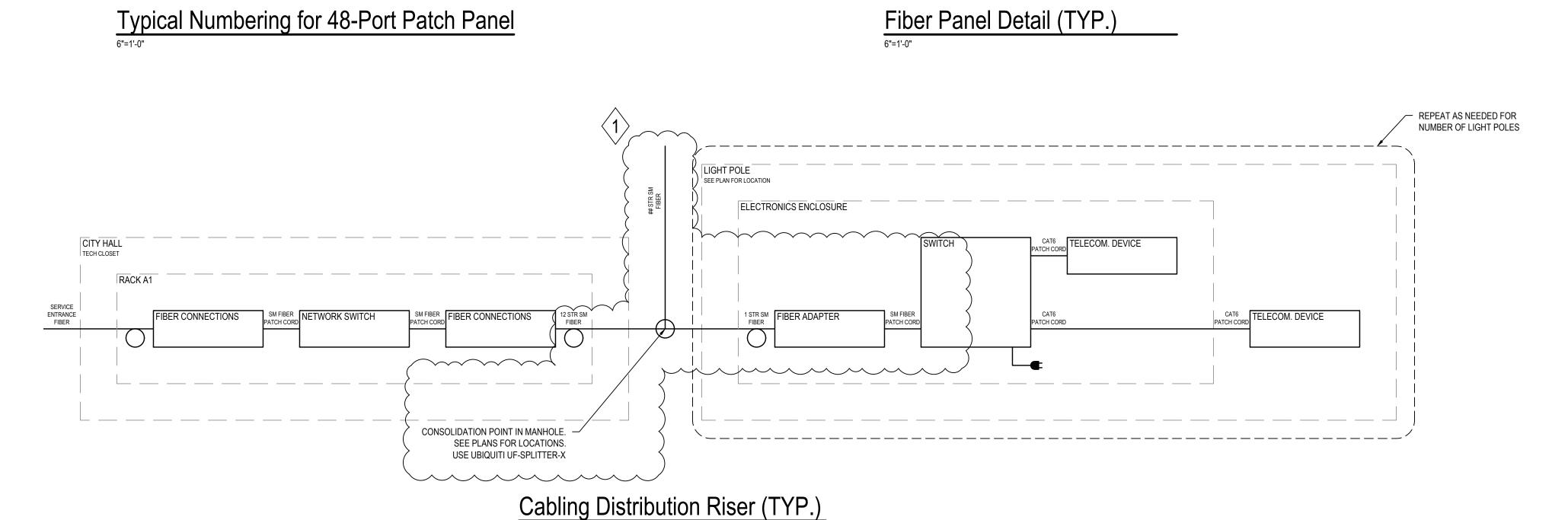
- FOR ALL ALPHABETIC IDENTIFIERS THE LETTERS "O" AND "I" ARE NOT USED, TO PREVENT POSSIBLE CONFUSION WITH THE NUMBERS ZERO AND ONE.
- ALL ANALOG PHONE DROPS ARE TO BE TERMINATED IN TECH CLOSETS ON 110 PUNCH-DOWN BLOCKS MOUNTED ON BACKBOARD.

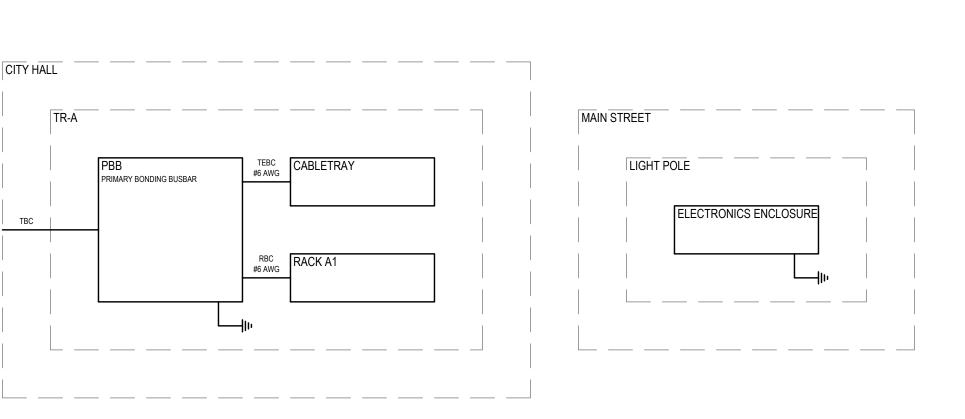
CABLING DISTRIBUTION NOTES

- PROVIDE 10 FEET OF MAINTENANCE LOOP AT TECHNOLOGY ROOM AND 1 FOOT OF MAINTENANCE LOOP AT WORK AREA FOR ALL CABLING UNLESS NOTED OTHERWISE.
- FOR EACH RUN OF BACKBONE FIBER BETWEEN TECHNOLOGY ROOMS, TERMINATE 2 STRANDS. TEST ALL STRANDS.
- SEE PATCH CORD LEGEND AND CABLING AND JACK LEGEND ON TG02 FOR MORE INFORMATION REGARDING APPROPRIATE COLORS REQUIRED.
- CABLING THAT ENTERS AND EXITS THE POLE-MOUNTED ENCLOSURE SHALL BE ENCLOSED IN LIQUIDTIGHT ELECTRIC TUBING AND SEALED PROPERLY AT EACH END.

GROUNDING NOTES

- ELECTRONICS LOCATED IN ENCLOSURE ON LIGHT POLES SHALL BE GROUNDED TO THE ENCLOSURE, AND ENCLOSURE GROUNDED TO THE POLE.
- GROUNDING BUSBARS IN EVERY TECH CLOSET TO BE CONNECTED TO AVAILABLE BUILDING STEEL AND ELECTRICAL PANELS (TYP.).



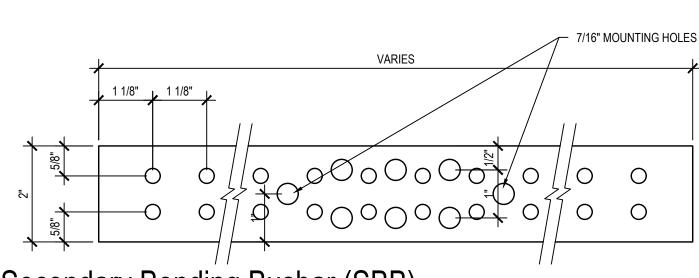


Telecommunications Grounding Riser

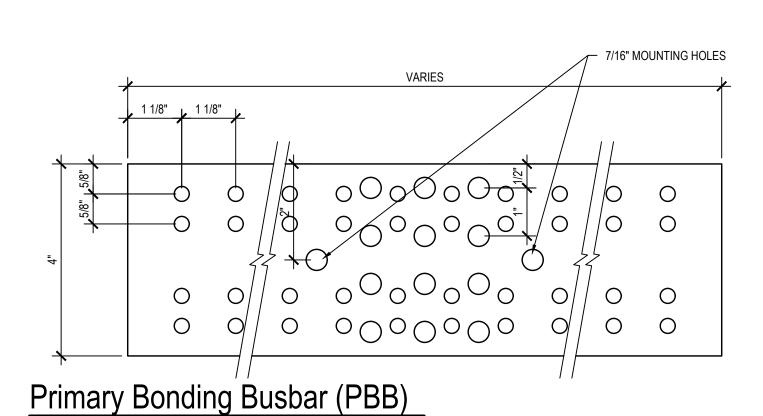
- RELAY RACK RAILS ISOMETRIC VIEW MAP LBP-2A LACING BAR 2U 48 PORT PATCH PANEL SWITCHES; KEEP THESE AREAS FREE OF CABLES SIDE VIEW Lacing Bar Detail

USE LACING BAR AT REAR OF RACK TO KEEP ALL CABLES WITHIN THE 2U SPACE OF THE PATCH PANEL TO ALLOW FOR INSTALLATION OF THE SWITCHES ABOVE AND BELOW THE PATCH PANELS. ALL CABLES FROM TOP ROW OF PATCH PANEL SHALL BE ATTACHED TO TOP OF LACING BAR. LIKEWISE ALL CABLES FROM BOTTOM ROW OF PATCH PANEL SHALL BE ATTACHED TO THE

BOTTOM OF THE LACING BAR.



Secondary Bonding Busbar (SBB)

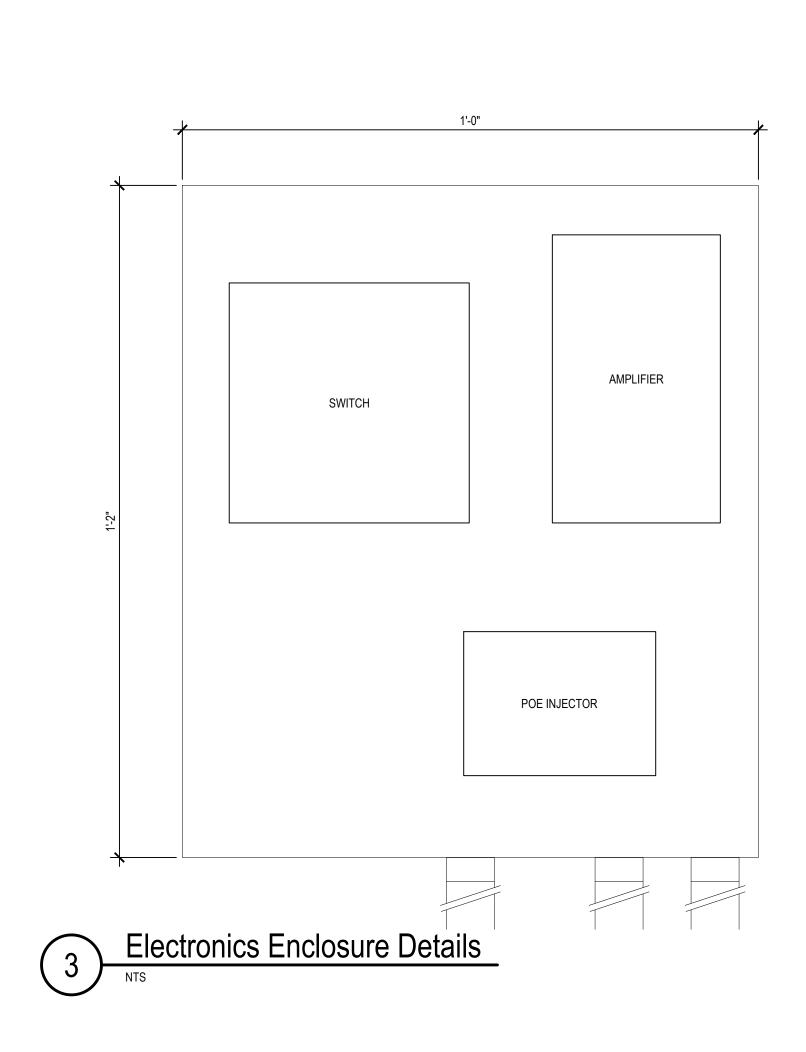


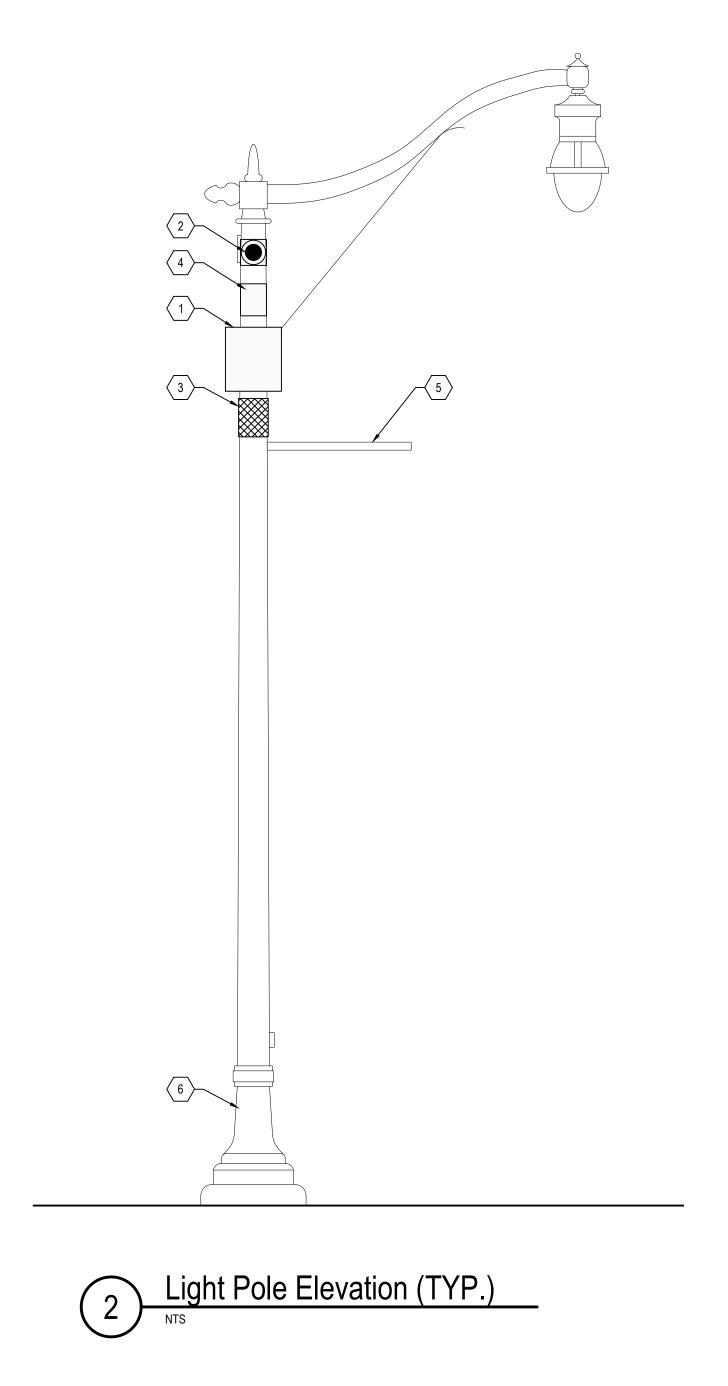
Cabling General Information

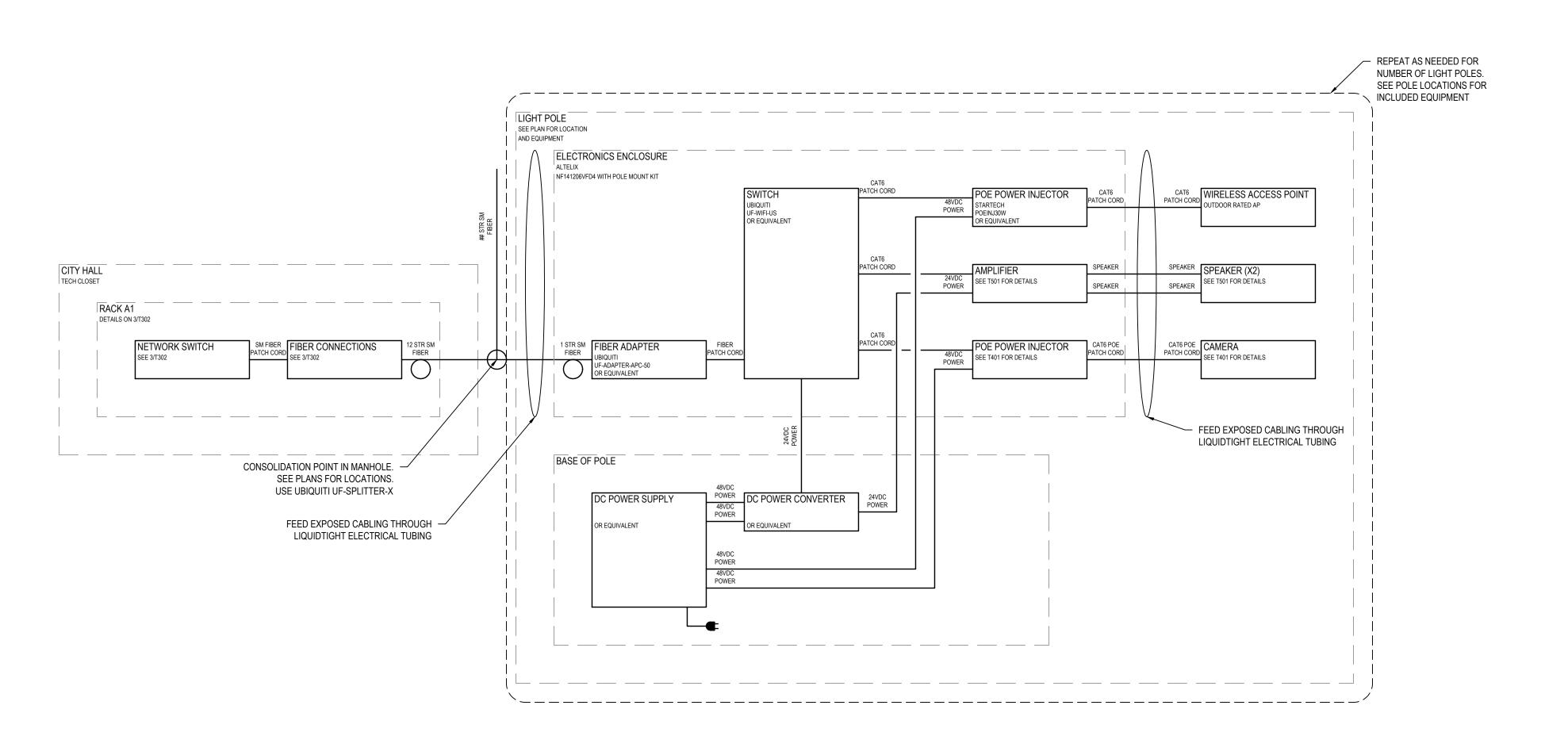
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> SHEET NO. T301







1 Electronics Enclosure (TYP.) Detail Riser

LIGHT POLE GENERAL NOTES

- 1. MOUNT EQUIPMENT AS TO ALLOW PROPER EQUIPMENT CLEARANCES AND AVOID EXISTING LIGHT POLE FEATURES.
- CABLING THAT ENTERS AND EXITS THE POLE-MOUNTED ENCLOSURE SHALL BE ENCLOSED IN LIQUIDTIGHT ELECTRIC TUBING AND SEALED PROPERLY AT EACH END.
- ELECTRONICS RESIDING IN ENCLOSURE SHALL BE MOUNTED ON A BACK-PLATE AND PROPERLY SPACED FOR HEAT DISSIPATION AND CABLING PRIOR TO FINAL INSTALLATION IN ENCLOSURE.

ACTUAL EQUIPMENT INSTALLED IN EACH ENCLOSURE WILL VARY BY POLE. REFER TO

LIGHT POLE KEYED NOTES

- EXTERIOR ELECTRONICS ENCLOSURE. SEE DETAILS 3/T303. COORDINATE FINAL COLOR WITH OWNER.
- SURVEILLANCE CAMERA (TYP.). REFER TO PLANS FOR SPECIFIC MODEL LOCATION AND VIEWS. MOUNTING HEIGHT AND STYLE MAY VARY. SEE DETAILS ON T401.
- 3 LOUDSPEAKER. SEE DETAILS ON T501.

PLANS FOR POLE SPECIFIC EQUIPMENT.

- WIRELESS ACCESS POINT.
- EXISTING POLE BANNER ARM. INSTALL ALL EQUIPMENT ABOVE THIS ARM ON APPLICABLE POLES.
- 6 DC POWER SUPPLY LOCATED IN BASE OF LIGHT POLE.



St, Greenville, MI 48838

Cabling Light Pole Details

City of Greenville

Downtown Greenville

411 S. Lafayette St, Greenville, MI 4

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Structured Cabling Support Information

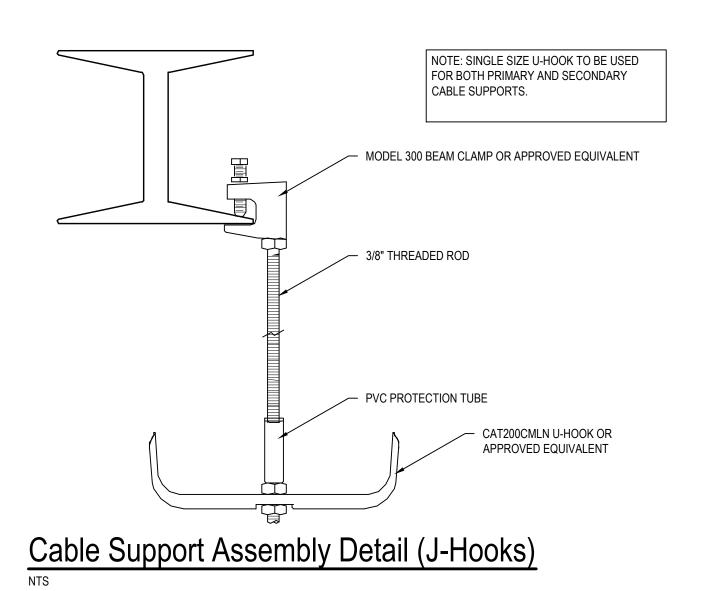
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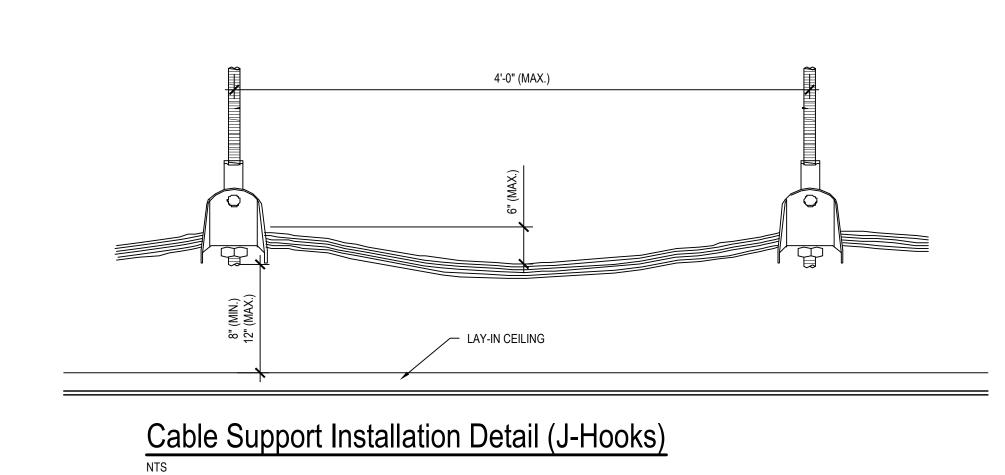
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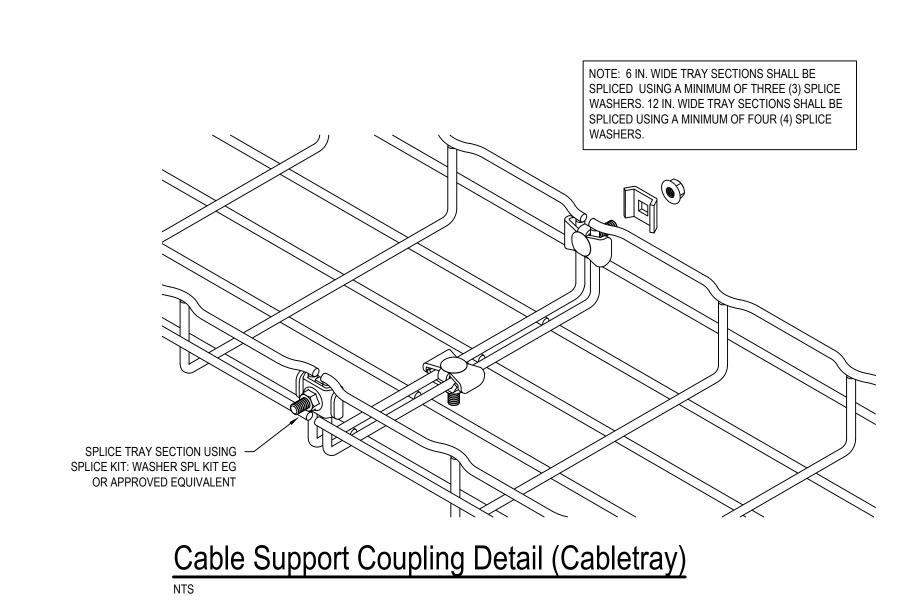
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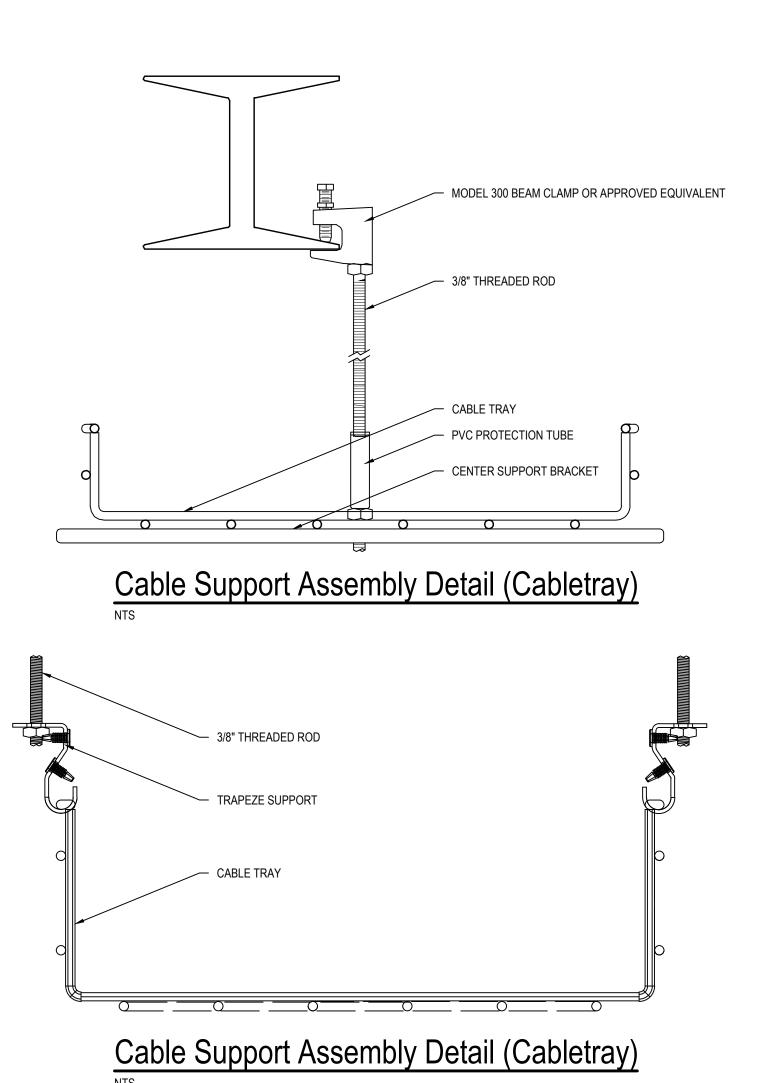
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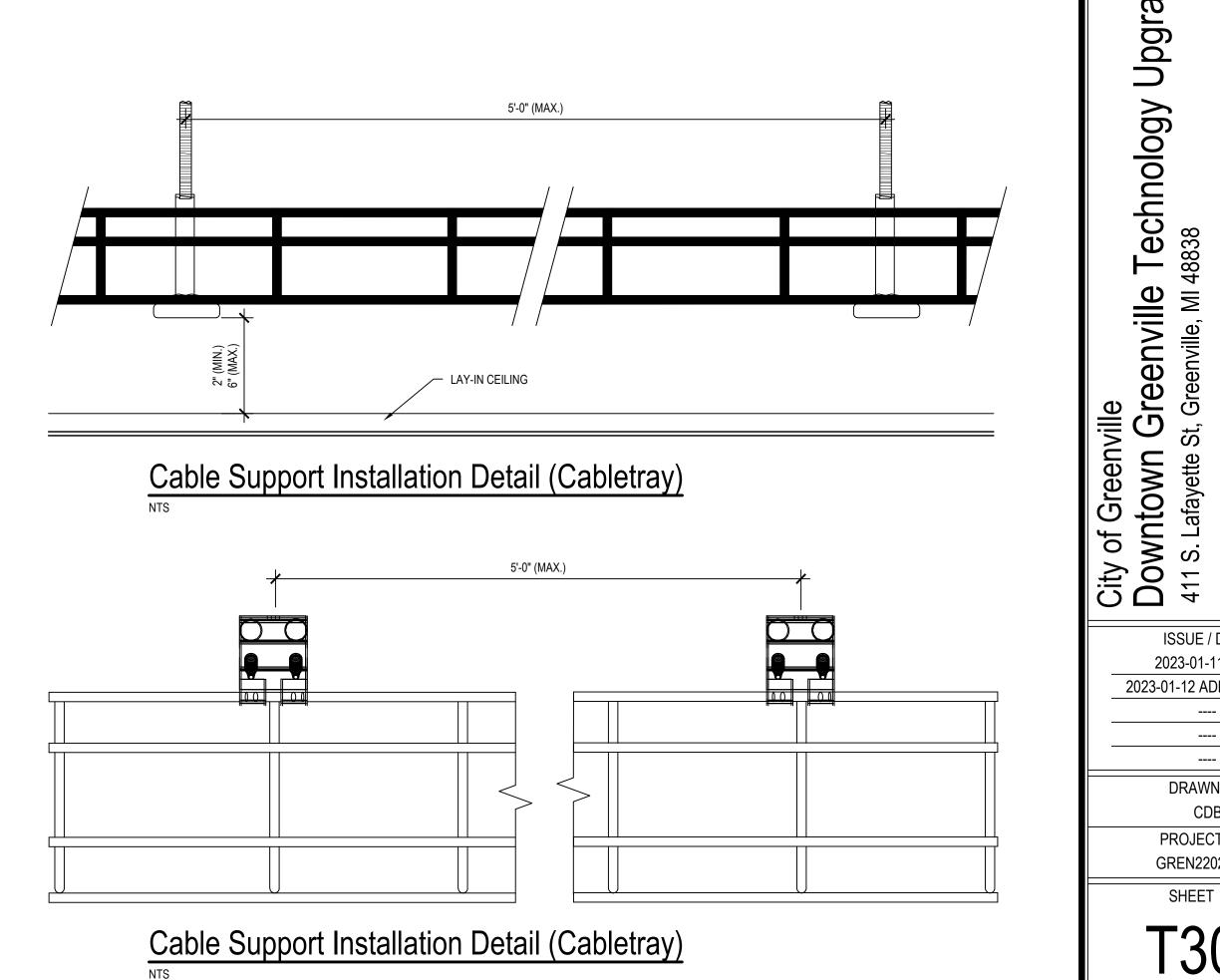
T304

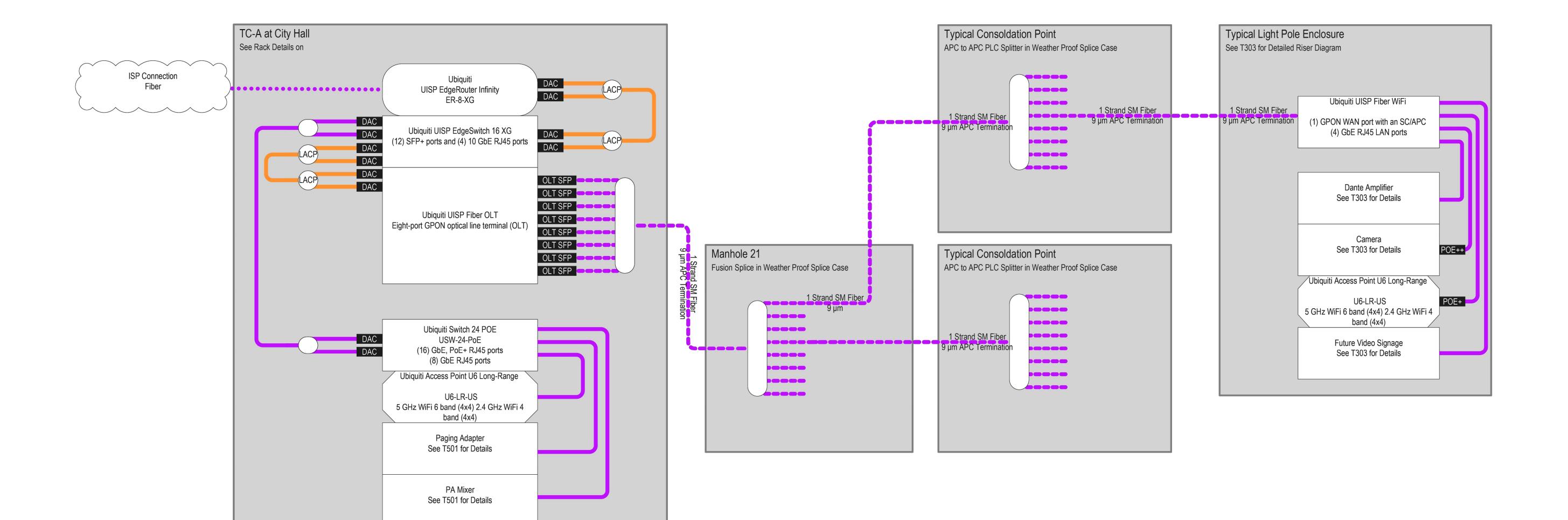


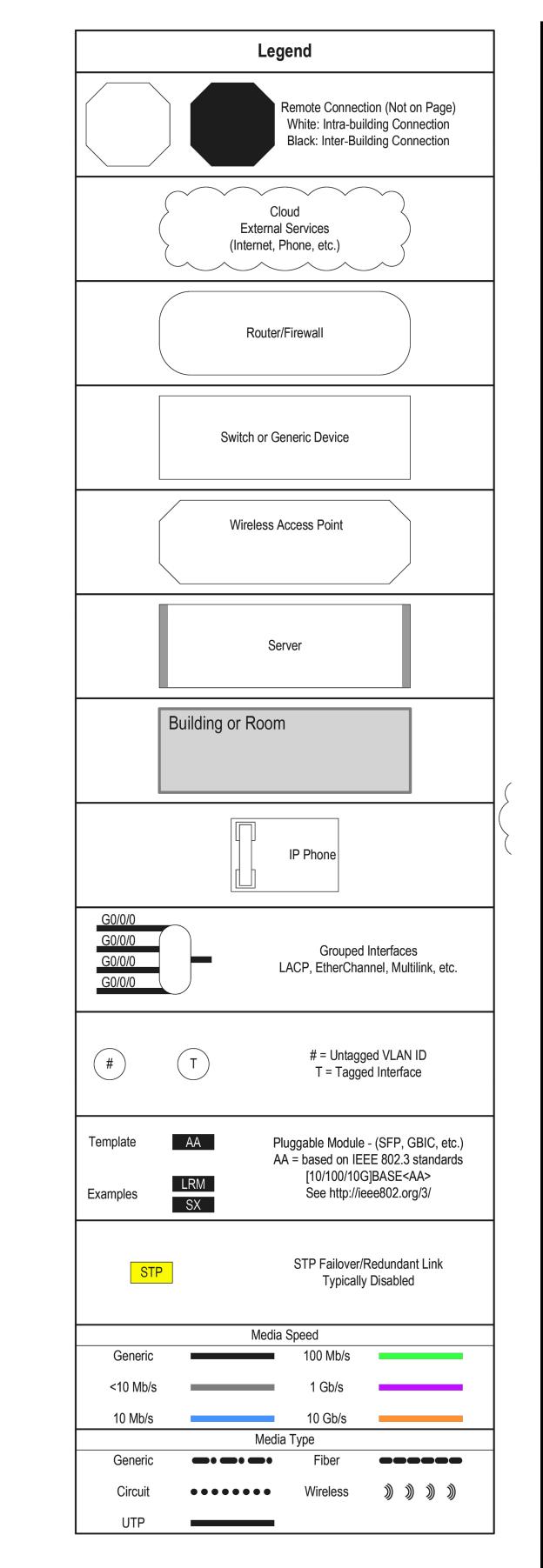












City of Greenville

Downtown Greenville Technology Upgrades
411 S. Lafayette St, Greenville, MI 48838

Cabling Network Diagram

City of Greenv

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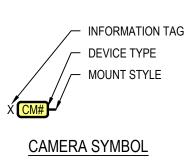
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CAMERA LEGEND									
CVMDOL	DESCRIPTION	HEIGHT	DATA DROPS	NEW WORK		SURFACE MOUNT		NOTES	
SYMBOL				ROUGH-IN	FACEPLATE	ROUGH-IN	FACEPLATE	ELECTRICAL	LOW VOLTAGE
CM1	DOME CAMERA	SEE NOTES	SEE T301	N/A	1/T401	N/A	1/T401		1
CM2	MULTIVIEW CAMERA	SEE NOTES	SEE T301	N/A	1/T401	N/A	1/T401		1
СМЗ	BULLET CAMERA	SEE NOTES	SEE T301	N/A	1/T401	N/A	1/T401		1



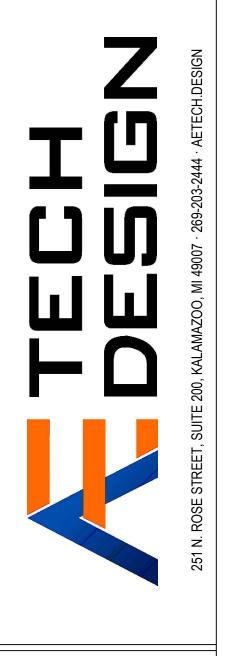
TECH CLOSET CITY HALL NETWORK SWITCH SEE 3/T302 SM FIBER FIBER TERMINATIONS SSM FIBER SEE 3/T302 12 STRANDS SM FIBER	ELECTRONICS ENCLOSURE SEE 1/T303 1 STRANDS SWITCH SMFIBER FIBER ADAPTER SEE 1/T303 SEE 1/T303 CATE PACE CORD STARTECH POEINJOW MAINTENANCE LOOP MAINTENANCE LOOP	BULLET CAMERA VERKADA CB51-E CAMERA MOUNT VERKADA PROVIDE AS NEEDED
3 CM3 Bullet Camera Riser	FEED EXPOSED CABLING THROUGH LIQUIDTIGHT ELECTRICAL TUBING	FEED EXPOSED CABLING THROUGH LIQUIDTIGHT ELECTRICAL TUBING
TECH CLOSET CITY HALL NETWORK SWITCH SEE 3/T302 SM FIBER FIBER TERMINATIONS SEE 3/T302 SM FIBER PATCH CORD SEE 3/T302 SM FIBER SM FIBER SM FIBER PATCH CORD	ELECTRONICS ENCLOSURE SEE 1/T303 1 STRANDS SWITCH FIBER ADAPTER SEE 1/T303 PATCH CORD SEE 1/T303 CAT6 PATCH CORD SEE 1/T303 CAT6 POENJIG90W MAINTENANCE LOOP MAINTENANCE LOOP	MULTIVIEW CAMERA VERKADA CH52-E CAMERA MOUNT VERKADA PROVIDE AS NEEDED
CM2 Multiview Camera Riser	FEED EXPOSED CABLING THROUGH LIQUIDTIGHT ELECTRICAL TUBING	FEED EXPOSED CABLING THROUGH LIQUIDTIGHT ELECTRICAL TUBING
TECH CLOSET CITY HALL NETWORK SWITCH SEE 3/T302 SM FIBER FIBER TERMINATIONS SM FIBER SM FIB	LIGHT POLE (TYP.) ELECTRONICS ENCLOSURE SEE 1/T303 SWITCH SEE 1/T303 SWITCH POE INJECTOR PATCH CORD SEE 1/T303 STARTECH POEINJ30W PATCH CORD PATCH CO	REPEAT AS NEEDED FOR QUANTITY OF LIGHT POLES SERVED
CM1 Dome Car		FEED EXPOSED CABLING THROUGH
NTS	LIQUIDTIGHT ELECTRICAL TUBING	LIQUIDTIGHT ELECTRICAL TUBING

CAMERA LEGEND NOTES

CAMERA MOUNTED ON LIGHT POLE UNLESS SHOWN OTHERWISE ON PLANS. REFER TO 2/T303 FOR POLE MOUNT APPLICATIONS.

CAMERA NOTES

- INSTALL AND CONFIGURE SERVER LICENSING AS NEEDED. PROVIDE ONE CAMERA LICENSE AND ONE SUPPORT LICENSE FOR EACH CAMERA INSTALLED. CONFIGURE SOFTWARE PER SPECIFICATION TO SUPPORT ALL CAMERAS.
- RELOCATE CAMERA DATA DROP AS REQUIRED FOR OPTIMAL CAMERA POSITION. NEATLY COIL AND SECURE ANY REMAINING MAINTENANCE LOOP TO BUILDING STRUCTURE.
- SECURE EXTERIOR CAMERAS TO BUILDING AT MINIMUM OF 144"AFF, UNLESS NOTED OTHERWISE.
- CAMERA CONTRACTOR IS RESPONSIBLE FOR DRILLING ANY HOLES THAT ARE REQUIRED TO PROVIDE PATHWAY FOR CAMERA PATCH CORDS. SEAL ALL PENETRATIONS APPROPRIATELY (REMOVABLE WATERPROOF CAULK FOR EXTERIOR WALLS, AND FIRE-PROOF PUTTY FOR FIRE-RATED WALLS).
- CAMERA CONTRACTOR TO PROVIDE MOUNTING HARDWARE AS NEEDED BASED ON CAMERA TYPE AND MOUNTING LOCATION.
- IMPORT BUILDING FLOOR PLANS AND PLACE CAMERA ICONS TO ALLOW VIEWING SELECTION OF A GIVEN CAMERA FROM THE SOFTWARE INTERFACE.
- ASSIST THE OWNER IN LOADING AND USAGE OF VIEWING SOFTWARE ON UP TO FIVE (5) COMPUTERS AND PROVIDE ABILITY TO VIEW CAMERAS FROM A MOBILE DEVICE TO THE EXTENT POSSIBLE WITH THE SYSTEM.
- CABLING THAT ENTERS AND EXITS THE POLE-MOUNTED ENCLOSURE SHALL BE ENCLOSED IN LIQUIDTIGHT ELECTRIC TUBING AND SEALED PROPERLY AT EACH END.



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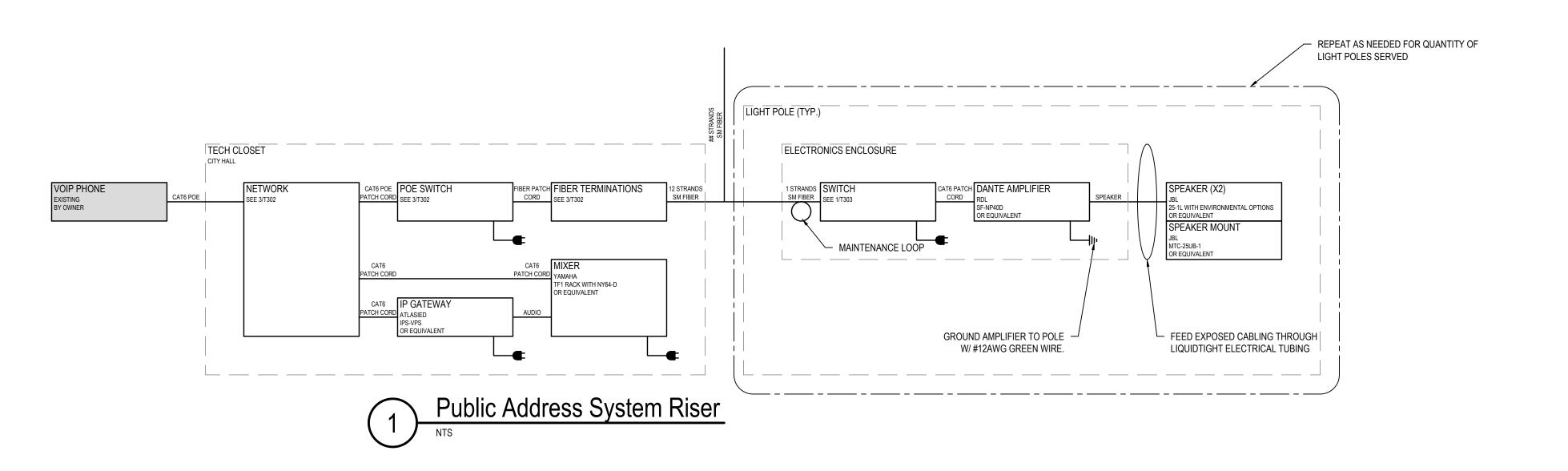
PROJECT NO. GREN2202-0200 SHEET NO.

	PAGING LEGEND								
DESCRIPTION	HEIGHT	DATA DROPS	NEW WORK		SURFACE MOUNT		NOTES		
			ROUGH-IN	FACEPLATE	ROUGH-IN	FACEPLATE	ELECTRICAL	LOW VOLTAGE	
	SPEAKER	SEE NOTES	SEE T301	SEE ELEC. NOTES	N/A	N/A	N/A		1
- 11	NFORMATION TAG								

		PAGING LEGEND NOTES
NO	ΓES	1. POLE MOUNTED. SEE DETAILS ON 2/T303.
DICAI		

DISTRIBUTED SYSTEMS NOTES

CABLING THAT ENTERS AND EXITS THE POLE-MOUNTED ENCLOSURE SHALL BE ENCLOSED IN LIQUIDTIGHT ELECTRIC TUBING AND SEALED PROPERLY AT EACH END.



SYMBOL

251 N. ROSE STREET, SUITE 200, KALAMAZOO, MI 49007 · 269-203-2444 · AETECH.DESIGN

City of Greenville

Downtown Greenville Technology Upgrades
411 S. Lafayette St, Greenville, MI 48838

Distributed Systems General Information

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