

THE COLLEGE OF NEW JERSEY

FIRE ALARM CABLE INFRASTRUCTURE UPGRADES

2000 PENNINGTON ROAD
EWING, NJ 08618



SITE LOCATION



AERIAL IMAGE

This Drawing Is The Property Of DLB Associates Consulting Engineers, P.C. It Was Prepared Exclusively For This Particular Project And Is Limited To This Project Only. Unauthorized Reproduction Or Other Use Of These Drawings Or Ideas Is Prohibited.

30x42

ITEM	DATE	ISSUE DESCRIPTION	ITEM	DATE	ISSUE DESCRIPTION
1	09/18/19	ISSUED FOR BID			



dlb associates
CONSULTING ENGINEERS, P.C.
265 Industrial Way West, Eatontown, N.J. 07724

Questions For DLB Call:
DLB Project ID: 47211

Anthony Laskosky
Phone: 732-927-5038

project
TCNJ - CAMPUS FIRE ALARM
CABLE INFRASTRUCTURE UPGRADES
2000 PENNINGTON ROAD,
EWING NJ, 08618

title
COVER SHEET

scale
AS SHOWN

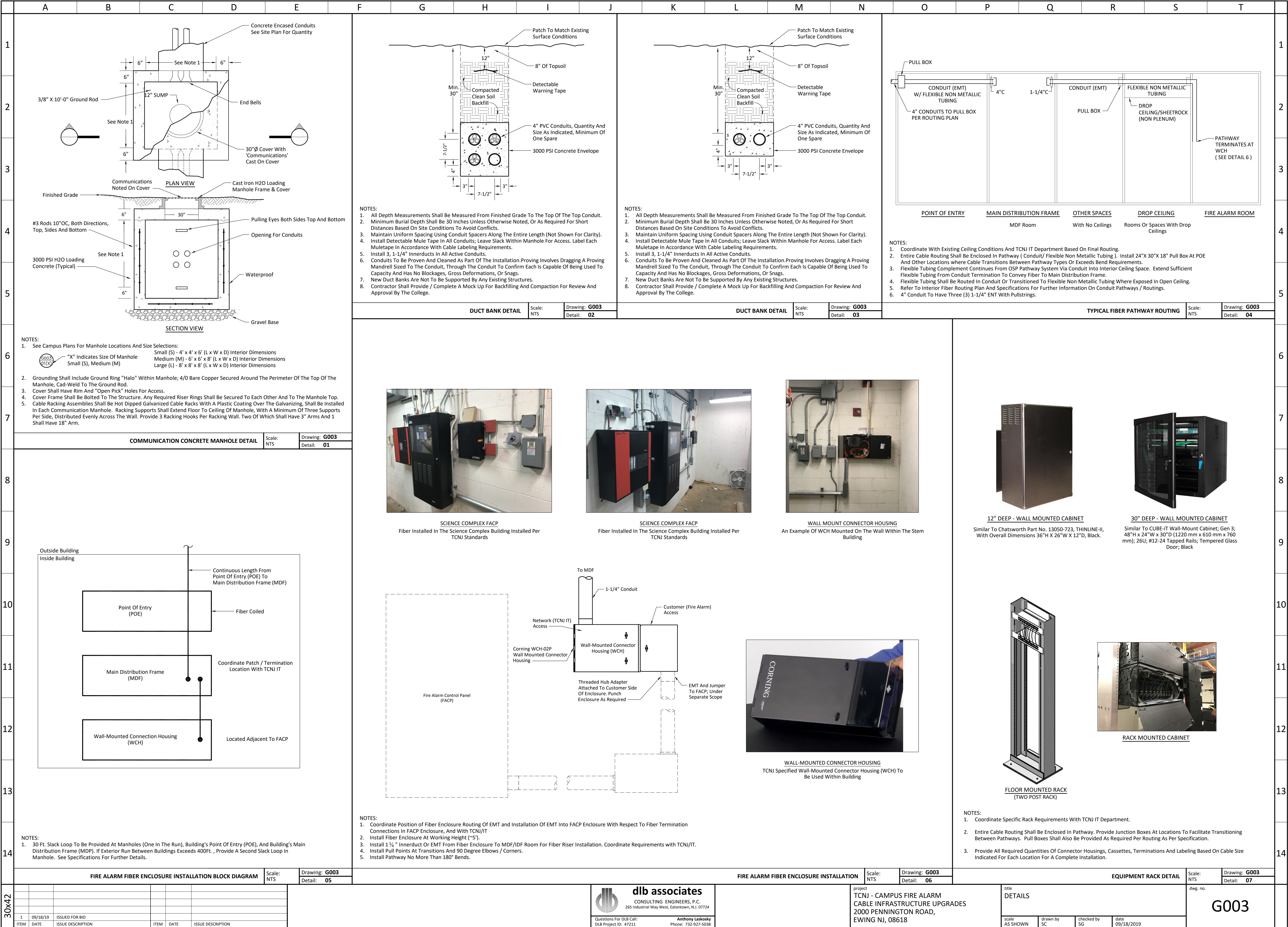
drawn by
SC

checked by
SG

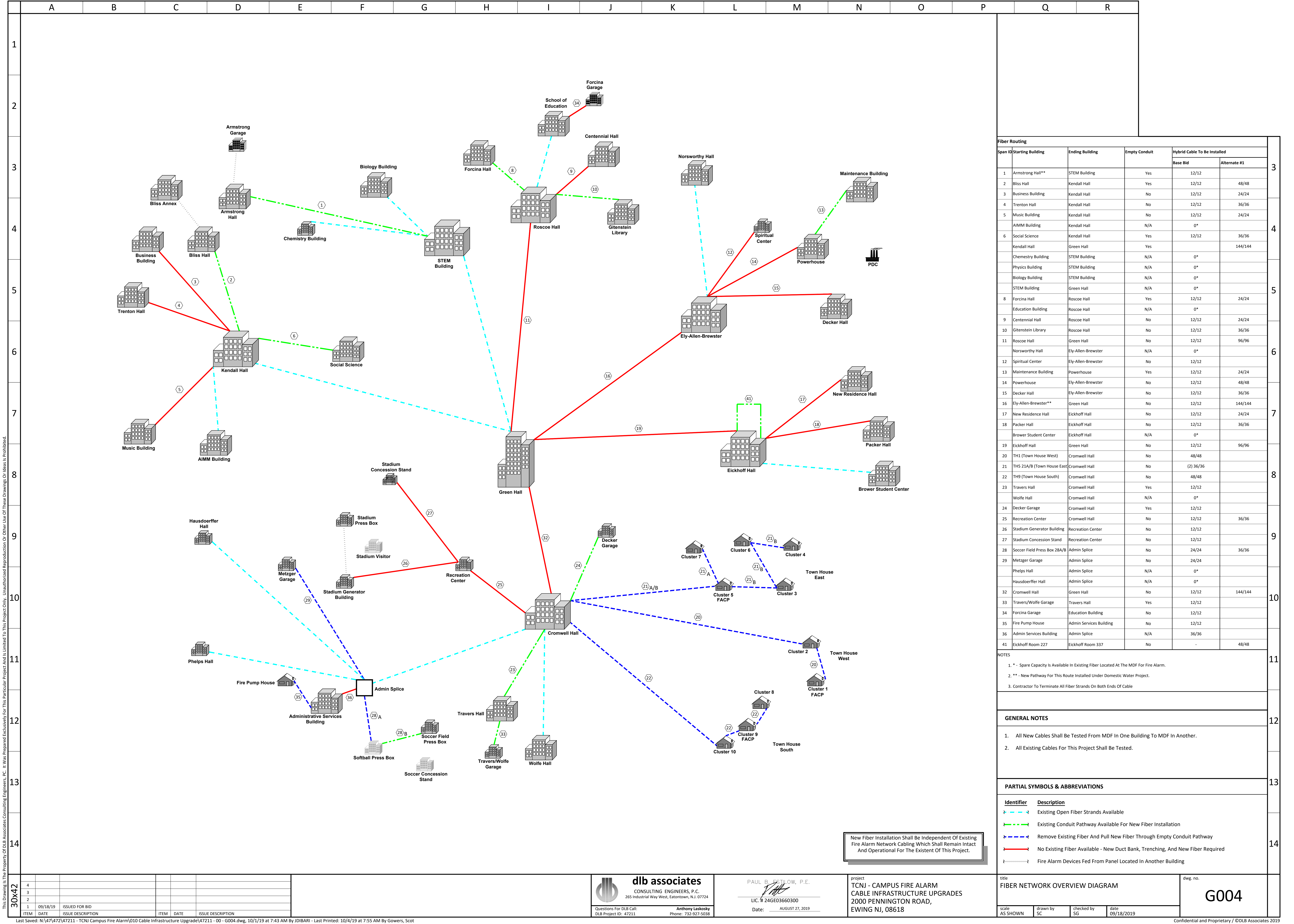
date
09/18/2019

dwg. no.
G000

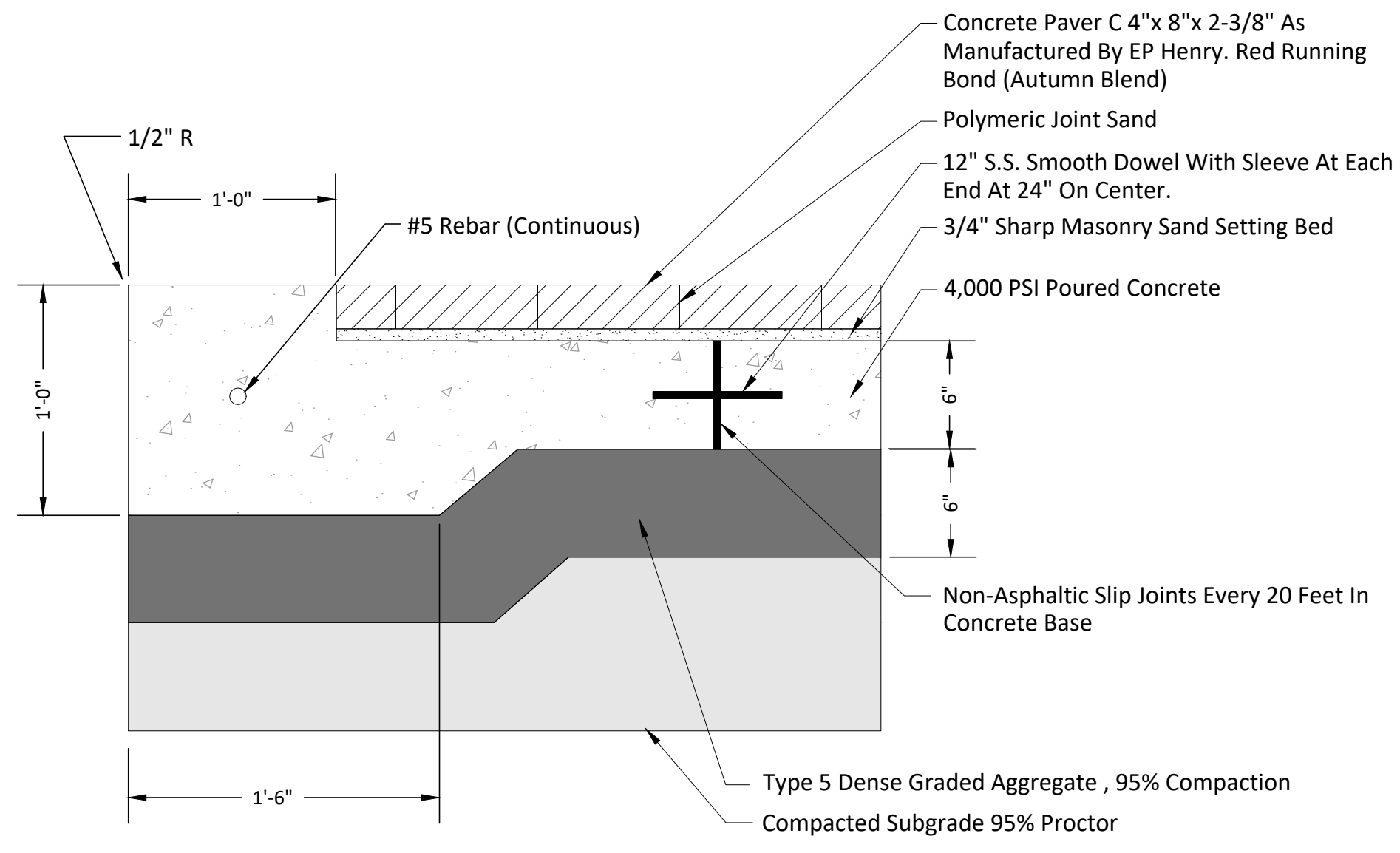
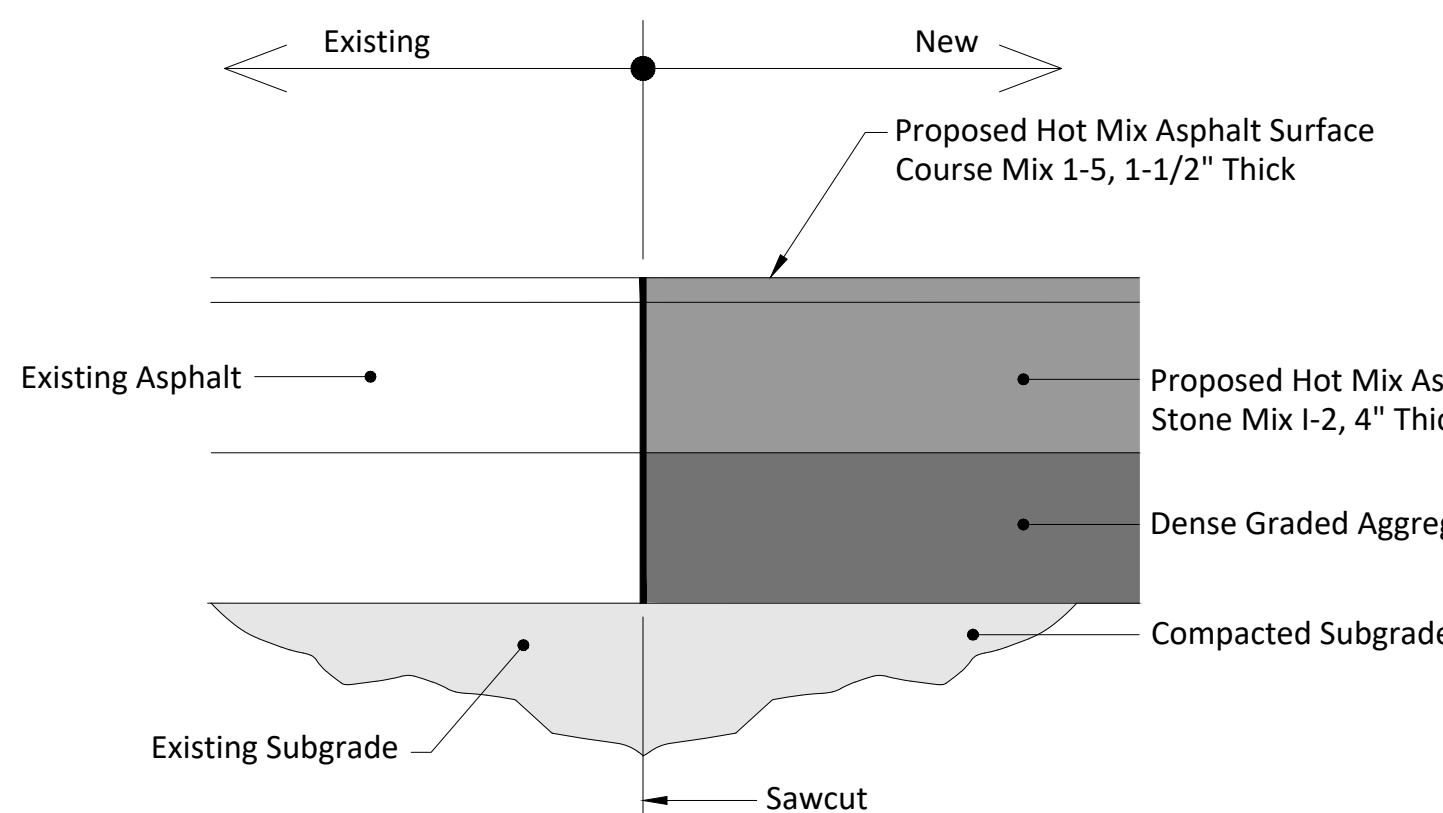
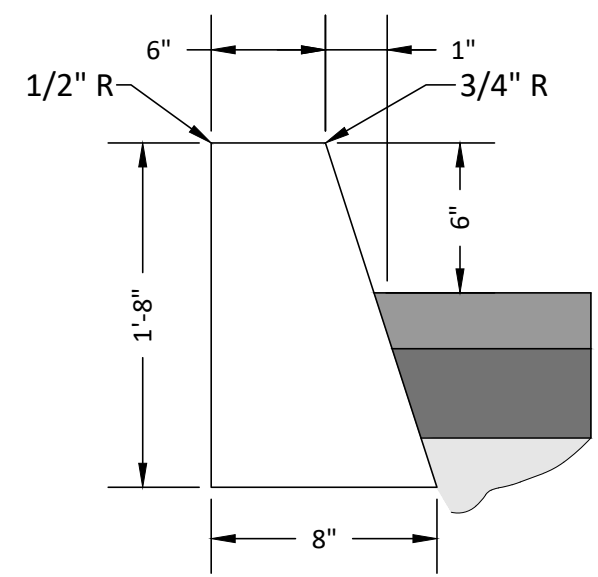
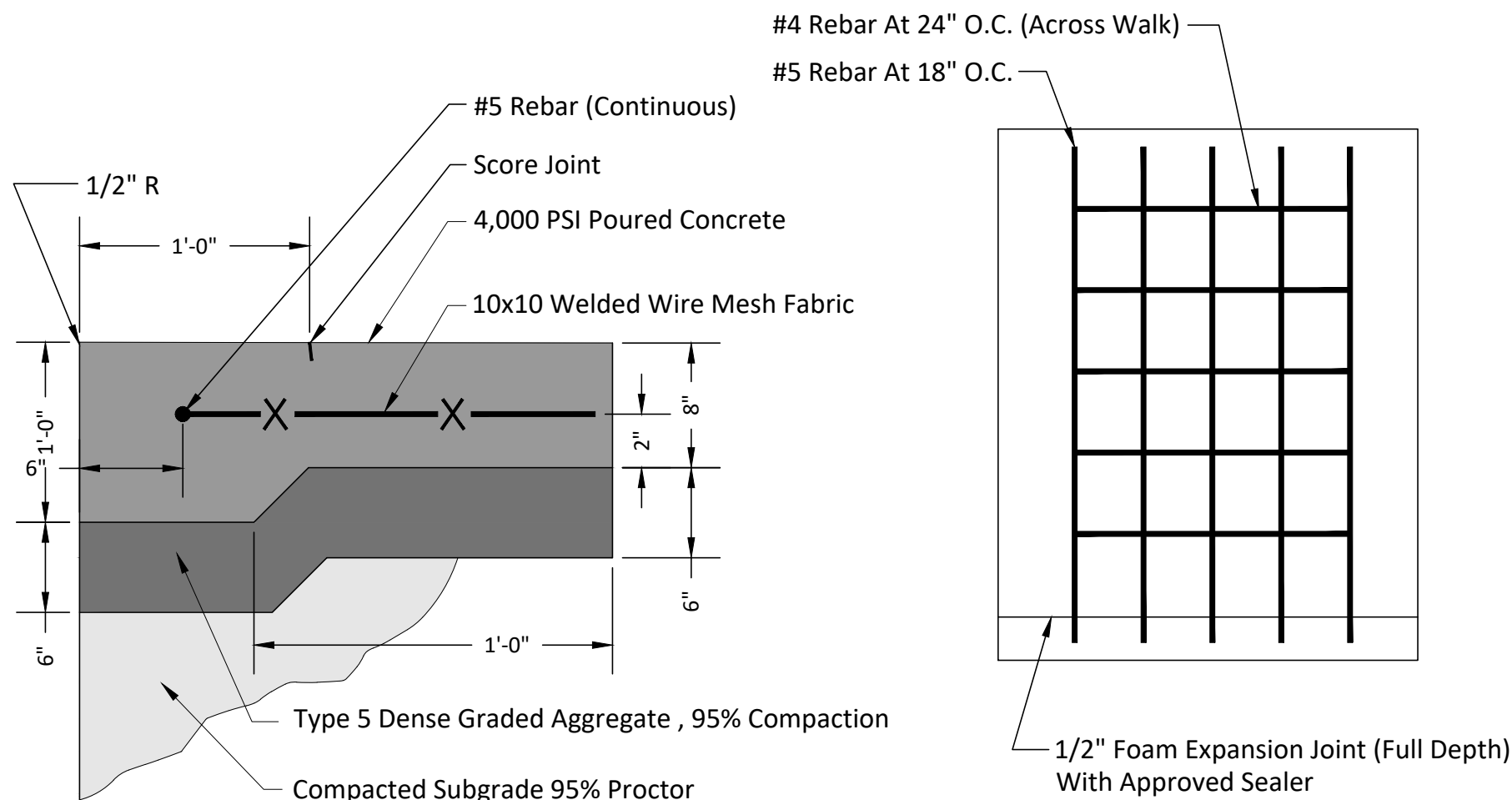
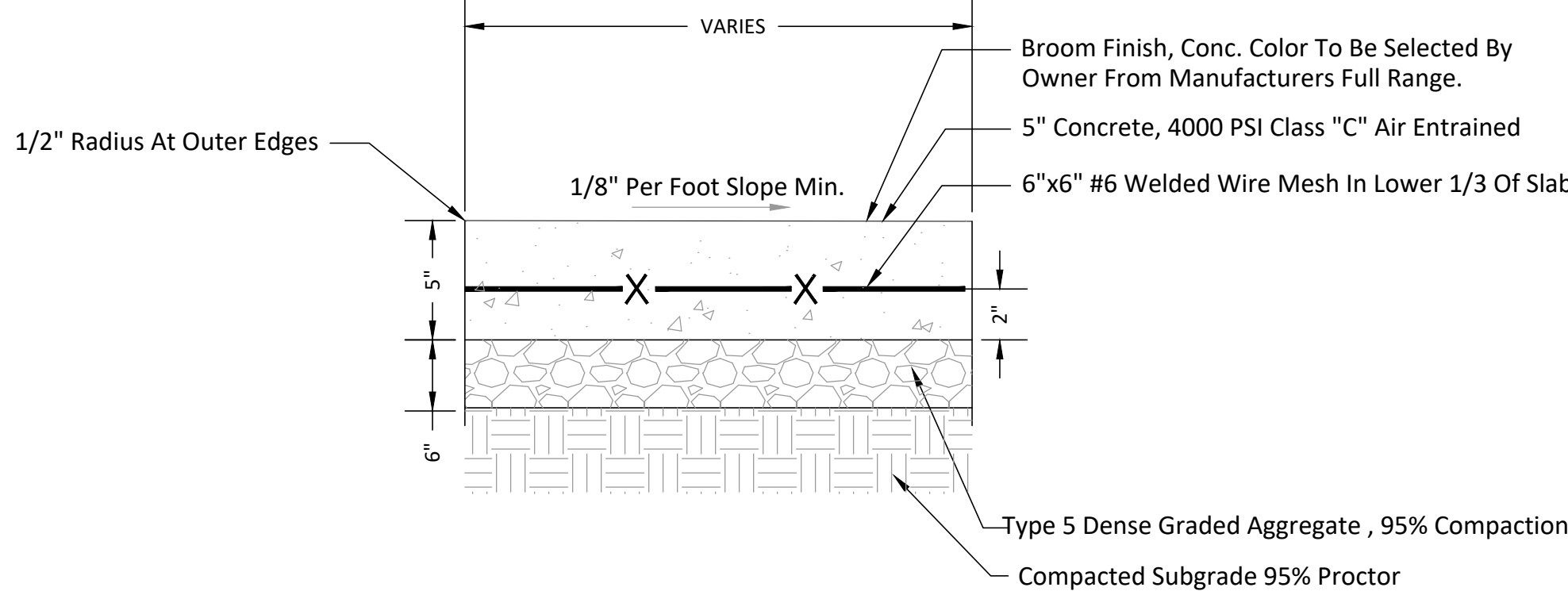
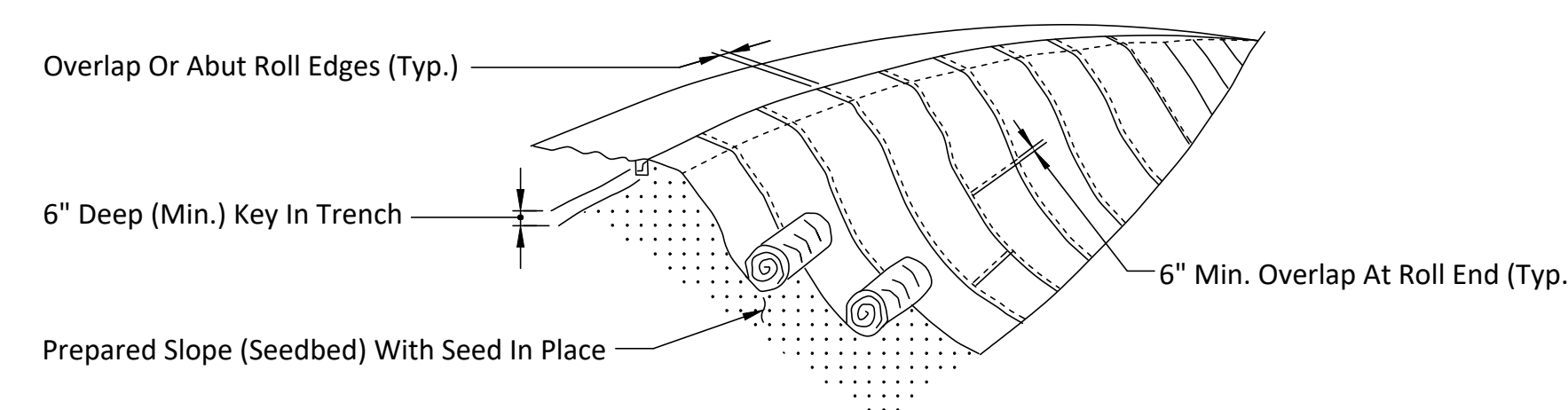
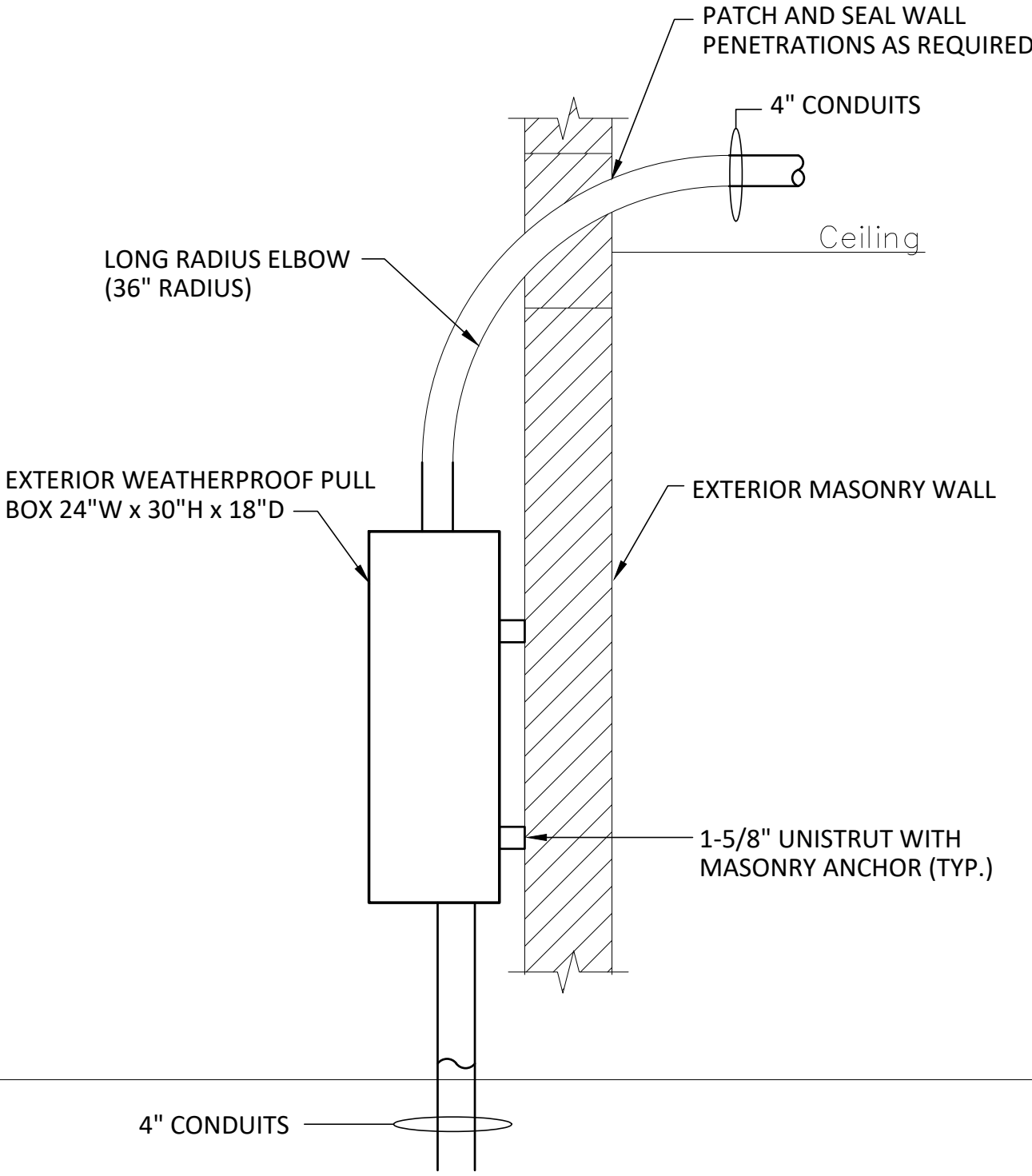

This Drawing Is The Property Of DLB Associates Consulting Engineers, P.C. It Was Prepared Exclusively For This Particular Project And Is Limited To This Project Only. Unauthorized Reproduction Or Other Use Of These Drawings Or Ideas Is Prohibited.



30x42




This Drawing Is The Property Of DIB Associates Consulting Engineers, PC. It Was Prepared Exclusively For This Particular Project And Is limited To This Project Only. Unauthorized Reproduction Or Other Use Of These Drawings Or Ideas Is Prohibited.

	A	B	C	D	E	F	G	H	I	J	K	L	M	N	O	P	Q	R			
1																					
2																					
3																					
4																					
5								<p>SIDEWALK WITH EMBEDDED PAVER REPAIR DETAIL</p> <p>Scale: NTS Drawing: G006 Detail: 01</p>							<p>PAVEMENT REPAIR WITH EXISTING PAVEMENT</p> <p>Scale: NTS Drawing: G006 Detail: 02</p>						
6																					
7								<p>NOTES:</p> <ol style="list-style-type: none">Sidewalk Width Match Existing. Replace Length Joint To Joint.Form Outside Edges And Joints With 1/2" Radius Edging Tool.Form Transverse Dummy Joints At 5 Foot Intervals. Approximately 1/8" Wide And At Least 1" Deep.When Butting Into Existing Concrete, Saw Cut Concrete And Use 1/2" Premolded Expansion Filler Full Depth Of Sidewalk.Expansion Joint 20' Max. Spacing. Seal Joints With Approved Caulking Material.Protect Wet / New Concrete From Freezing.Whenever Possible, Sidewalk Surface Should Be Sloped From Back To Front At 1/4" Per Foot To Drain Towards Street.Brick Banding Shall Be Provided In The Same Pattern As Existing. Pavers Shall Be EP Henry Autumn Blend.Use PVC Pipe Embedded At Least 12" Into Previous Concrete Pour With Rebar Throughout To Next Section Of Sidewalk To Be Placed (To Provide Proper Slip Condition At Expansion Joint).													
8																					
9																					
10								<p>DRIVE ISLE SIDEWALK RESTORATION DETAIL</p> <p>Scale: NTS Drawing: G006 Detail: 03</p>							<p>NON-DRIVE ISLE SIDEWALK REPAIR DETAIL</p> <p>Scale: NTS Drawing: G006 Detail: 04</p>						
11																					
12								<p>NOTES:</p> <ol style="list-style-type: none">Use Temporary Soil Stabilization Matting Made Of Degradable (Lasts 6 Months Minimum) Natural Or Man-made Fibers (Mostly Organic). Mat Must Have Uniform Thickness And Distribution Of Fibers Throughout And Be Smolder Resistant. Chemicals Used In The Mat Must Be Non-leaching And Non-toxic To Vegetation And Seed Germination And Non-injurious To The Skin. If Present, Netting Must Be Extruded Plastic With A Maximum Mesh Opening Of 2x2 Inches And Sufficiently Bonded Or Sewn On 2 Inch Centers Along Longitudinal Axis Of The Material To Prevent Separation Of The Net From The Parent Material.Secure Matting Using Steel Staples, Wood Stakes, Or Biodegradable Equivalent. Staples Must Be "u" or "t" Shaped Steel Wire Having A Minimum Gauge Of No. 11 And No. 8 Respectively. "u" Shaped Staples Must Average 1 To 1-1/2 Inches Wide And Be A Minimum Of 6 Inches Long. "t" Shaped Staples Must Have A Minimum 8 Inch Main Leg, A Minimum 1 Inch Secondary Leg, And A Minimum 4 Inch Head. Wood Stakes Must Be Rough-Sawn Hardwood, 12 To 24 Inches In Length, 1x3 Inch In Cross Section, And Wedge Shaped At The Bottom.Perform Final Grading, Topsoil Application, Seedbed Preparation, And Permanent Seeding In Accordance With Specifications. Place Matting Within 48 Hours Of Completing Seeding Operations Unless End Of Workday Stabilization Is Specified On The Approved Erosion & Sediment Control Plan.Unroll Matting Downslope. Lay Mat Smoothly And Firmly Upon The Seeded Surface. Avoid Stretching The Matting.Overlap Or Abut Roll Edges Per Manufacturer Recommendations. Overlap Roll Ends By 6 Inches (Minimum), With The Upslope Mat Overlapping On Top Of The Downslope Mat.Key In The Upslope End Of Mat 6 Inches (Minimum) By Digging A Trench, Placing The Matting Roll End In The Trench, Stapling The Mat In Place, Replacing The Excavated Material, And Tamping To Secure The Mat End In The Key.Staple / Stake Mat In A Staggered Pattern On 4 Foot (maximum) Centers Throughout And 2 Foot (Maximum) Centers Along Seams, Joints, And Roll Ends.Establish And Maintain Vegetation So That Requirements For Adequate Vegetative Establishment Are Continuously Met In Accordance With Vegetative Stabilization.													
13																					
14																					
								<p>SLOPE STABILIZATION DETAIL</p> <p>Scale: NTS Drawing: G006 Detail: 05</p>							<p>EXTERIOR PULL BOX DETAIL</p> <p>Scale: NTS Drawing: G006 Detail: 06</p>						
															<p>project TCNJ - CAMPUS FIRE ALARM CABLE INFRASTRUCTURE UPGRADES 2000 PENNINGTON ROAD, EWING NJ, 08618</p> <p>title DETAILS</p> <p>scale AS SHOWN drawn by HF checked by ASL date 09/18/2019</p>						
															<p>G006</p>						

30x42


4																		
3																		
2																		
1	09/18/19	ISSUED FOR BID																
ITEM	DATE	ISSUE DESCRIPTION	ITEM	DATE	ISSUE DESCRIPTION													



dlb associates
CONSULTING ENGINEERS, P.C.
265 Industrial Way West, Eatontown, N.J. 07724

Questions For DLB Call:
DLB Project ID: 47211

Anthony Laskosky
Phone: 732-927-5038

PAUL B. FETTLow, P.E.

LIC. # 24GE03660300
Date: AUGUST 27, 2019

project
TCNJ - CAMPUS FIRE ALARM
CABLE INFRASTRUCTURE UPGRADES
2000 PENNINGTON ROAD,
EWING NJ, 08618

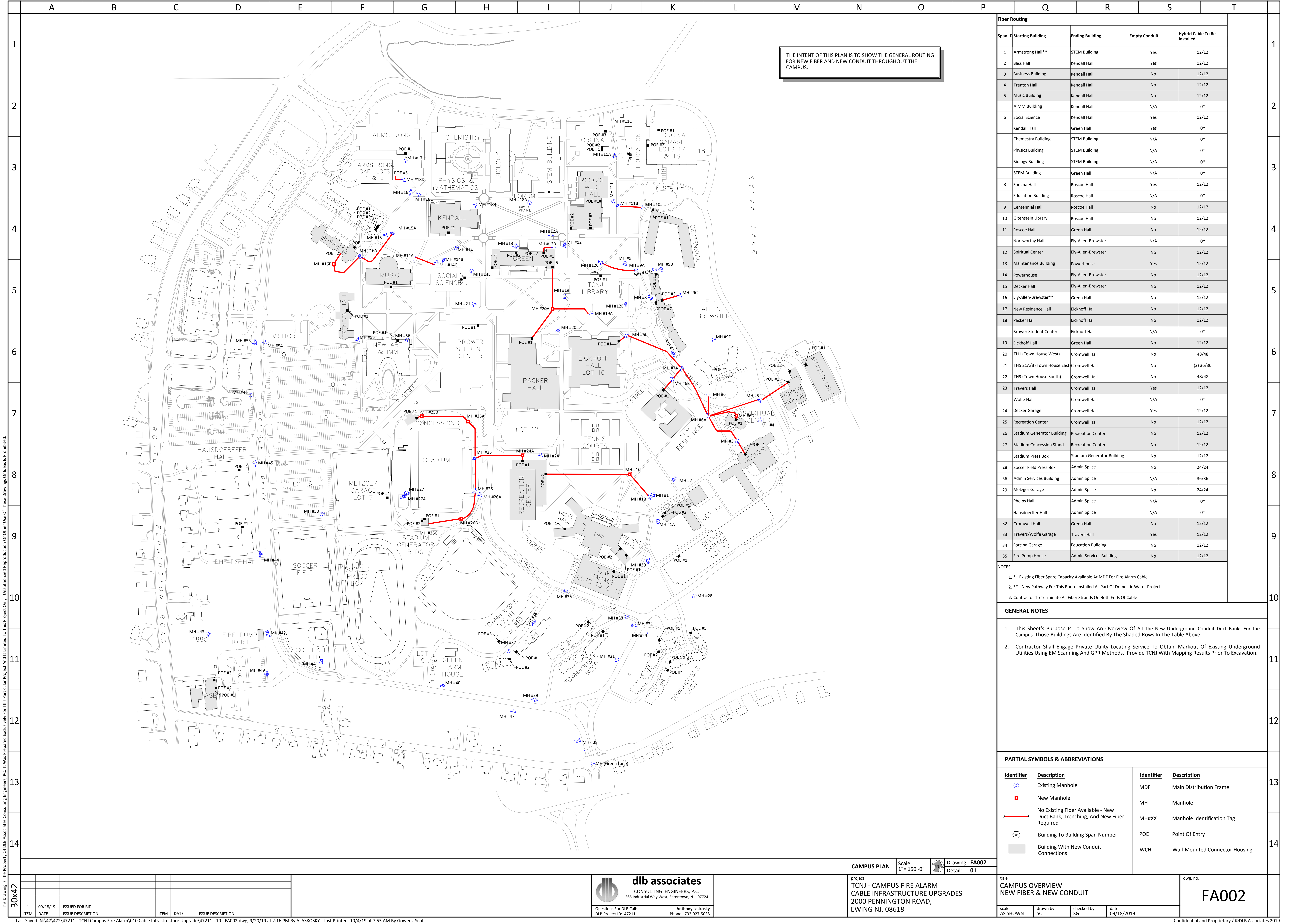
scale	AS SHOWN	drawn by	HF	checked by	ASL	date	09/18/2019
-------	----------	----------	----	------------	-----	------	------------

dwg. no.

G006

This Drawing Is The Property Of DLB Associates Consulting Engineers, P.C. It Was Prepared Exclusively For This Particular Project And Is Limited To This Project Only. Unauthorized Reproduction Or Other Use Of These Drawings Or Ideas Is Prohibited.

30x42



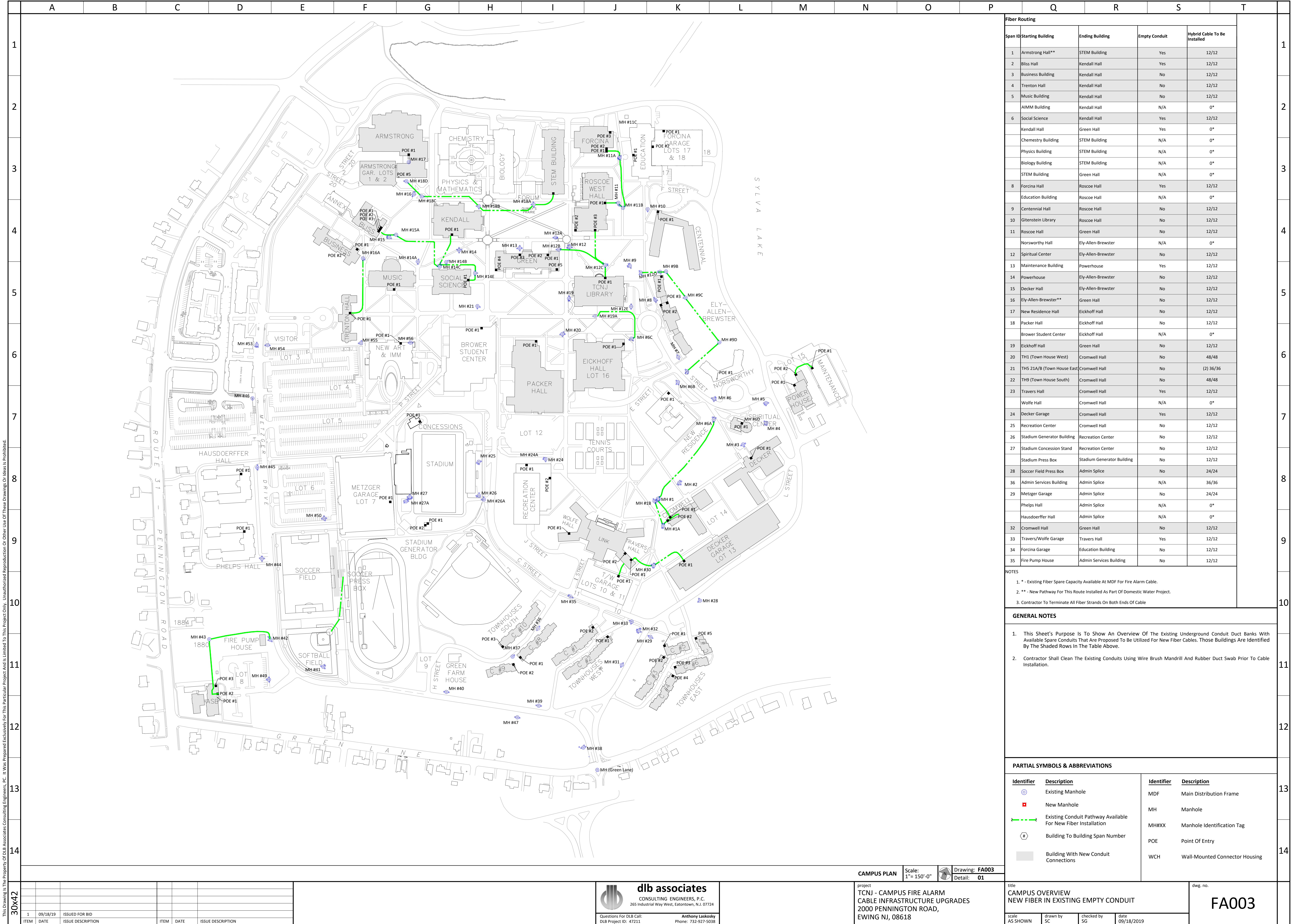
THE INTENT OF THIS PLAN IS TO SHOW THE GENERAL ROUTING FOR NEW FIBER AND NEW CONDUIT THROUGHOUT THE CAMPUS.

Fiber Routing					
Span ID	Starting Building	Ending Building	Empty Conduit	Hybrid Cable To Be Installed	
1	Armstrong Hall**	STEM Building	Yes	12/12	
2	Bliss Hall	Kendall Hall	Yes	12/12	
3	Business Building	Kendall Hall	No	12/12	
4	Trenton Hall	Kendall Hall	No	12/12	
5	Music Building	Kendall Hall	No	12/12	
6	AIMM Building	Kendall Hall	N/A	0*	
	Social Science	Kendall Hall	Yes	12/12	
	Kendall Hall	Green Hall	Yes	0*	
	Chemestry Building	STEM Building	N/A	0*	
	Physics Building	STEM Building	N/A	0*	
7	Biology Building	STEM Building	N/A	0*	
	STEM Building	Green Hall	N/A	0*	
	8	Forcina Hall	Roscoe Hall	Yes	12/12
	Education Building	Roscoe Hall	N/A	0*	
	9	Centennial Hall	Roscoe Hall	No	12/12
10	Gitenstein Library	Roscoe Hall	No	12/12	
11	Roscoe Hall	Green Hall	No	12/12	
12	Norsworthy Hall	Ely-Allen-Brewster	N/A	0*	
	Spiritual Center	Ely-Allen-Brewster	No	12/12	
	Maintenance Building	Powerhouse	Yes	12/12	
	Powerhouse	Ely-Allen-Brewster	No	12/12	
	15	Decker Hall	Ely-Allen-Brewster	No	12/12
16	Ely-Allen-Brewster**	Green Hall	No	12/12	
17	New Residence Hall	Eickhoff Hall	No	12/12	
18	Packer Hall	Eickhoff Hall	No	12/12	
19	Brower Student Center	Eickhoff Hall	N/A	0*	
	Eickhoff Hall	Green Hall	No	12/12	
20	TH1 (Town House West)	Cromwell Hall	No	48/48	
21	TH5 21A/B (Town House East)	Cromwell Hall	No	(2) 36/36	
22	TH9 (Town House South)	Cromwell Hall	No	48/48	
23	Travers Hall	Cromwell Hall	Yes	12/12	
24	Wolfe Hall	Cromwell Hall	N/A	0*	
	Decker Garage	Cromwell Hall	Yes	12/12	
25	Recreation Center	Cromwell Hall	No	12/12	
26	Stadium Generator Building	Recreation Center	No	12/12	
27	Stadium Concession Stand	Recreation Center	No	12/12	
28	Stadium Press Box	Stadium Generator Building	No	12/12	
	Soccer Field Press Box	Admin Splice	No	24/24	
	36	Admin Services Building	Admin Splice	N/A	36/36
	29	Metzger Garage	Admin Splice	No	24/24
	30	Phelps Hall	Admin Splice	N/A	0*
31	Hausdoerffer Hall	Admin Splice	N/A	0*	
	32	Cromwell Hall	Green Hall	No	12/12
	33	Travers/Wolfe Garage	Travers Hall	Yes	12/12
	34	Forcina Garage	Education Building	No	12/12
	35	Fire Pump House	Admin Services Building	No	12/12

- NOTES
- * - Existing Fiber Spare Capacity Available At MDF For Fire Alarm Cable.
 - ** - New Pathway For This Route Installed As Part Of Domestic Water Project.
 - Contractor To Terminate All Fiber Strands On Both Ends Of Cable

- GENERAL NOTES
- This Sheet's Purpose Is To Show An Overview Of All The New Underground Conduit Duct Banks For The Campus. Those Buildings Are Identified By The Shaded Rows In The Table Above.
 - Contractor Shall Engage Private Utility Locating Service To Obtain Markout Of Existing Underground Utilities Using EM Scanning And GPR Methods. Provide TCNJ With Mapping Results Prior To Excavation.

PARTIAL SYMBOLS & ABBREVIATIONS			
Identifier	Description	Identifier	Description
	Existing Manhole	MDF	Main Distribution Frame
	New Manhole	MH	Manhole
	No Existing Fiber Available - New Duct Bank, Trenching, And New Fiber Required	MH#XX	Manhole Identification Tag
	Building To Building Span Number	POE	Point Of Entry
	Building With New Conduit Connections	WCH	Wall-Mounted Connector Housing

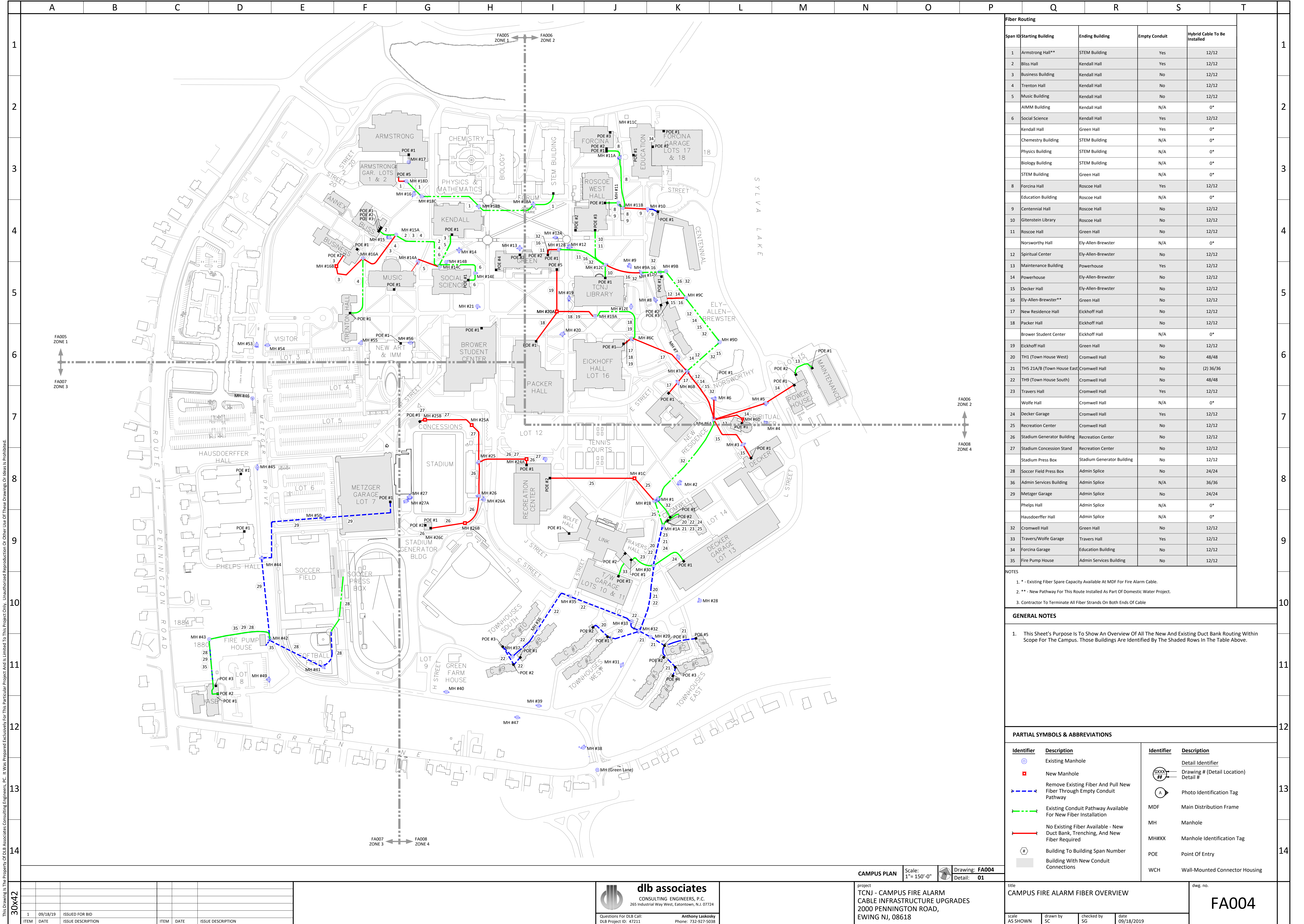


Fiber Routing				
Span ID	Starting Building	Ending Building	Empty Conduit	Hybrid Cable To Be Installed
1	Armstrong Hall**	STEM Building	Yes	12/12
2	Bliss Hall	Kendall Hall	Yes	12/12
3	Business Building	Kendall Hall	No	12/12
4	Trenton Hall	Kendall Hall	No	12/12
5	Music Building	Kendall Hall	No	12/12
6	AIMM Building	Kendall Hall	N/A	0*
	Social Science	Kendall Hall	Yes	12/12
	Kendall Hall	Green Hall	Yes	0*
7	Chemestry Building	STEM Building	N/A	0*
	Physics Building	STEM Building	N/A	0*
	Biology Building	STEM Building	N/A	0*
8	STEM Building	Green Hall	N/A	0*
	Forcina Hall	Roscoe Hall	Yes	12/12
	Education Building	Roscoe Hall	N/A	0*
9	Centennial Hall	Roscoe Hall	No	12/12
10	Gitenstein Library	Roscoe Hall	No	12/12
11	Roscoe Hall	Green Hall	No	12/12
12	Norsworthy Hall	Ely-Allen-Brewster	N/A	0*
	Spiritual Center	Ely-Allen-Brewster	No	12/12
	Maintenance Building	Powerhouse	Yes	12/12
14	Powerhouse	Ely-Allen-Brewster	No	12/12
15	Decker Hall	Ely-Allen-Brewster	No	12/12
16	Ely-Allen-Brewster**	Green Hall	No	12/12
17	New Residence Hall	Eickhoff Hall	No	12/12
18	Packer Hall	Eickhoff Hall	No	12/12
19	Brower Student Center	Eickhoff Hall	N/A	0*
	Eickhoff Hall	Green Hall	No	12/12
	TH1 (Town House West)	Cromwell Hall	No	48/48
21	TH5 21A/B (Town House East)	Cromwell Hall	No	(2) 36/36
22	TH9 (Town House South)	Cromwell Hall	No	48/48
23	Travers Hall	Cromwell Hall	Yes	12/12
24	Wolfe Hall	Cromwell Hall	N/A	0*
	Decker Garage	Cromwell Hall	Yes	12/12
	Recreation Center	Cromwell Hall	No	12/12
26	Stadium Generator Building	Recreation Center	No	12/12
27	Stadium Concession Stand	Recreation Center	No	12/12
28	Stadium Press Box	Stadium Generator Building	No	12/12
	Soccer Field Press Box	Admin Splice	No	24/24
36	Admin Services Building	Admin Splice	N/A	36/36
29	Metzger Garage	Admin Splice	No	24/24
32	Phelps Hall	Admin Splice	N/A	0*
	Hausdoerffer Hall	Admin Splice	N/A	0*
	Cromwell Hall	Green Hall	No	12/12
33	Travers/Wolfe Garage	Travers Hall	Yes	12/12
34	Forcina Garage	Education Building	No	12/12
35	Fire Pump House	Admin Services Building	No	12/12

- NOTES
- * - Existing Fiber Spare Capacity Available At MDF For Fire Alarm Cable.
 - ** - New Pathway For This Route Installed As Part Of Domestic Water Project.
 - Contractor To Terminate All Fiber Strands On Both Ends Of Cable

- GENERAL NOTES
- This Sheet's Purpose Is To Show An Overview Of The Existing Underground Conduit Duct Banks With Available Spare Conduits That Are Proposed To Be Utilized For New Fiber Cables. Those Buildings Are Identified By The Shaded Rows In The Table Above.
 - Contractor Shall Clean The Existing Conduits Using Wire Brush Mandril And Rubber Duct Swab Prior To Cable Installation.

PARTIAL SYMBOLS & ABBREVIATIONS			
Identifier	Description	Identifier	Description
	Existing Manhole	MDF	Main Distribution Frame
	New Manhole	MH	Manhole
	Existing Conduit Pathway Available For New Fiber Installation	MH#XX	Manhole Identification Tag
	Building To Building Span Number	POE	Point Of Entry
	Building With New Conduit Connections	WCH	Wall-Mounted Connector Housing



This Drawing Is The Property Of DLB Associates Consulting Engineers, P.C. It Was Prepared Exclusively For This Particular Project And Is Limited To This Project Only. Unauthorized Reproduction Or Other Use Of These Drawings Or Ideas Is Prohibited.

30x42

ITEM	DATE	ISSUE DESCRIPTION	ITEM	DATE	ISSUE DESCRIPTION
1	09/18/19	ISSUED FOR BID			

Last Saved: N:\47\472\47211 - TCNU Campus Fire Alarm\010 Cable Infrastructure Upgrade\47211 - 10 - FA004.dwg, 9/20/19 at 2:09 PM By ALASKOSKY - Last Printed: 10/4/19 at 7:55 AM By Gowers, Scott




dlb associates
CONSULTING ENGINEERS, P.C.
265 Industrial Way West, Eatontown, N.J. 07724

Questions For DLB Call:
DLB Project ID: 47211

Anthony Laskosky
Phone: 732-927-5038

CAMPUS PLAN

Scale: 1"= 150'-0"

 Drawing: FA004
Detail: 01

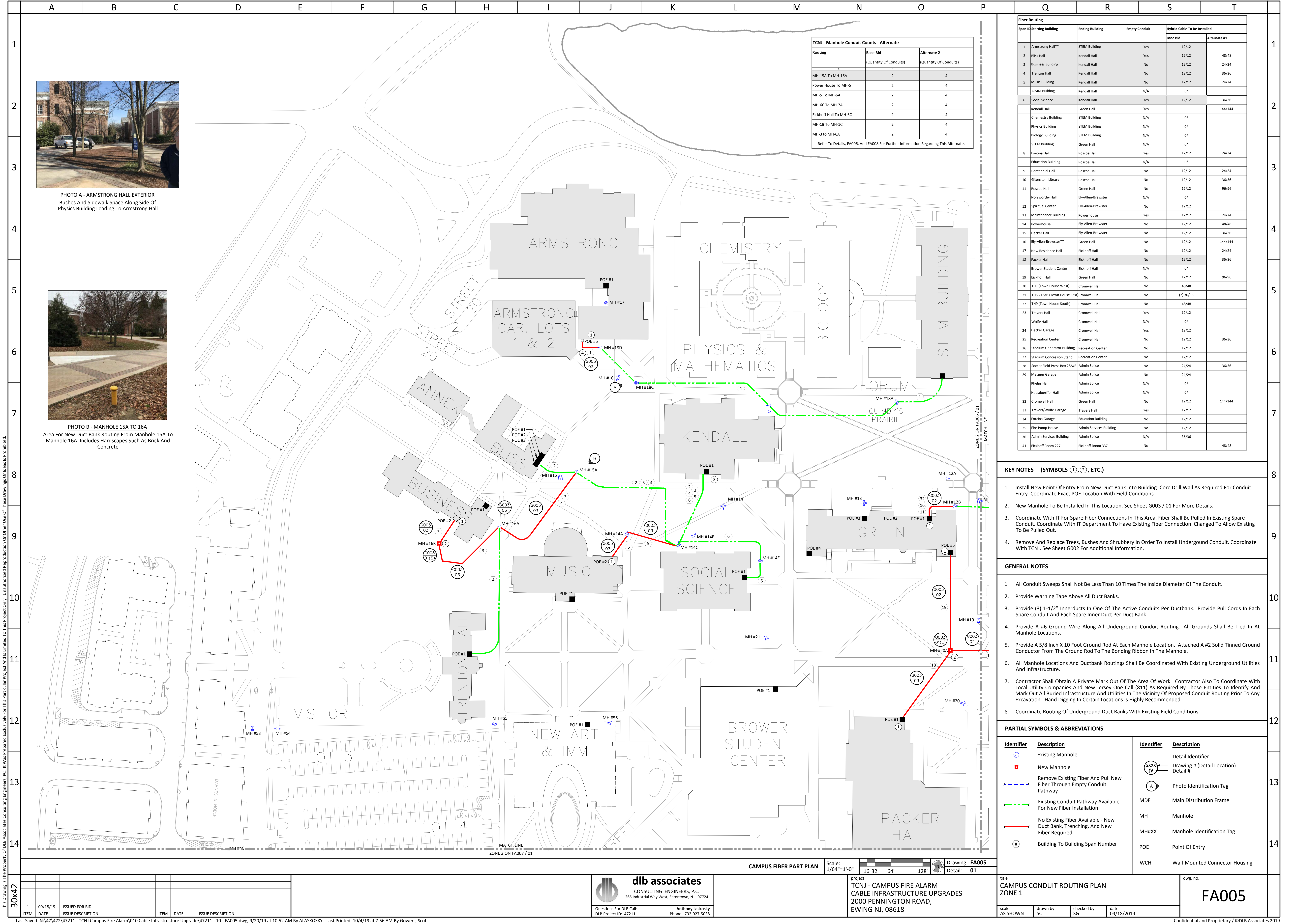
project
TCNJ - CAMPUS FIRE ALARM
CABLE INFRASTRUCTURE UPGRADES
2000 PENNINGTON ROAD,
EWING NJ, 08618

title
CAMPUS FIRE ALARM FIBER OVERVIEW

scale AS SHOWN
drawn by SC
checked by SG
date 09/18/2019

dwg. no.
FA004

Confidential and Proprietary / © DLB Associates 2019



This Drawing Is The Property Of DLB Associates Consulting Engineers, P.C. It Was Prepared Exclusively For This Particular Project And Is Limited To This Project Only. Unauthorized Reproduction Or Other Use Of These Drawings Or Ideas Is Prohibited.



PHOTO A - MAINTENANCE BUILDING TO POWER HOUSE
Location For New Duct Bank And Fiber Between The Maintenance Building And The Power House. Route Includes Hardscapes Such As Brick And Concrete.



PHOTO D - OUTSIDE NEW LIBRARY
Location For New Manhole And Duct Bank Routing From New Library To Green Hall. Route Includes Hardscapes Such As Brick And Concrete.



PHOTO C - OUTSIDE EAB
Location For New Manhole And Duct Bank Routing Directly South Of EAB. Route Includes Hardscapes Such As Brick And Concrete.



PHOTO E - NORTH EAB
Location For New Manhole And Duct Bank Routing From New Manhole North Of EAB To Manhole 12C. Route Includes Hardscapes Such As Brick And Concrete.

TCNJ - Manhole Conduit Counts - Alternate		
Routing	Base Bid (Quantity Of Conduits)	Alternate 2 (Quantity Of Conduits)
A	B	C
MH-15A To MH-16A	2	4
Power House To MH-5	2	4
MH-5 To MH-6A	2	4
MH-6C To MH-7A	2	4
Eickhoff Hall To MH-6C	2	4
MH-18 To MH-1C	2	4
MH-3 To MH-6A	2	4

Refer To Details, FA006, And FA008 For Further Information Regarding This Alternate.

Fiber Routing				
Span ID	Starting Building	Ending Building	Empty Conduit	Hybrid Cable To Be Installed
				Base Bid Alternate #1
1	Armstrong Hall**	STEM Building	Yes	12/12
2	Bliss Hall	Kendall Hall	Yes	12/12 48/48
3	Business Building	Kendall Hall	No	12/12 24/24
4	Trenton Hall	Kendall Hall	No	12/12 36/36
5	Music Building	Kendall Hall	No	12/12 24/24
6	AI/MM Building	Kendall Hall	N/A	0*
6	Social Science	Kendall Hall	Yes	12/12 36/36
	Kendall Hall	Green Hall	Yes	144/144
	Chemistry Building	STEM Building	N/A	0*
	Physics Building	STEM Building	N/A	0*
	Biology Building	STEM Building	N/A	0*
	STEM Building	Green Hall	N/A	0*
8	Forcina Hall	Roscoe Hall	Yes	12/12 24/24
	Education Building	Roscoe Hall	N/A	0*
9	Centennial Hall	Roscoe Hall	No	12/12 24/24
10	Gilstein Library	Roscoe Hall	No	12/12 36/36
11	Roscoe Hall	Green Hall	No	12/12 96/96
	Norworthy Hall	Ely-Allen-Brewster	N/A	0*
12	Spiritual Center	Ely-Allen-Brewster	No	12/12
13	Maintenance Building	Powerhouse	Yes	12/12 24/24
14	Powerhouse	Ely-Allen-Brewster	No	12/12 48/48
15	Decker Hall	Ely-Allen-Brewster	No	12/12 36/36
16	Ely-Allen-Brewster**	Green Hall	No	12/12 144/144
17	New Residence Hall	Eickhoff Hall	No	12/12 24/24
18	Packer Hall	Eickhoff Hall	No	12/12 36/36
	Brower Student Center	Eickhoff Hall	N/A	0*
19	Eickhoff Hall	Green Hall	No	12/12 96/96
20	TH1 (Town House West)	Cromwell Hall	No	48/48
21	TH3 21A/B (Town House East)	Cromwell Hall	No	(2) 36/36
22	TH9 (Town House South)	Cromwell Hall	No	48/48
23	Travers Hall	Cromwell Hall	Yes	12/12
23	Wolfe Hall	Cromwell Hall	N/A	0*
24	Decker Garage	Cromwell Hall	Yes	12/12
25	Recreation Center	Cromwell Hall	No	12/12 36/36
26	Stadium Generator Building	Recreation Center	No	12/12
27	Stadium Concession Stand	Recreation Center	No	12/12
28	Soccer Field Press Box 28A/B	Admin Splice	No	24/24 36/36
29	Metzger Garage	Admin Splice	No	24/24
	Phelps Hall	Admin Splice	N/A	0*
	Hausdoerffer Hall	Admin Splice	N/A	0*
32	Cromwell Hall	Green Hall	No	12/12 144/144
33	Travers/Wolfe Garage	Travers Hall	Yes	12/12
34	Forcina Garage	Education Building	No	12/12
35	Fire Pump House	Admin Services Building	No	12/12
36	Admin Services Building	Admin Splice	N/A	36/36
41	Eickhoff Room 227	Eickhoff Room 337	No	- 48/48

KEY NOTES (SYMBOLS ①, ②, ETC.)

1. Install New Point Of Entry From New Duct Bank Into Building. Core Drill Wall As Required For Conduit Entry. Coordinate Exact POE Location With Field Conditions.
2. New Manhole To Be Installed In This Location. See Sheet G003 / 01 For More Details.
3. Coordinate With IT For Spare Fiber Connections In This Area. Fiber Shall Be Pulled In Existing Spare Conduit. Coordinate With IT Department To Have Existing Fiber Connection Changed To Allow Existing To Be Pulled Out.
4. Remove And Replace Trees, Bushes And Shrubbery In Order To Install Underground Conduit. Coordinate With TCNJ. See Sheet G002 For Additional Information.

GENERAL NOTES

1. All Conduit Sweeps Shall Not Be Less Than 10 Times The Inside Diameter Of The Conduit.
2. Provide Warning Tape Above All Duct Banks.
3. Provide (3) 1-1/2" Innerducts In One Of The Active Conduits Per Ductbank. Provide Pull Cords In Each Spare Conduit And Each Spare Inner Duct Per Duct Bank.
4. Provide A #6 Ground Wire Along All Underground Conduit Routing. All Grounds Shall Be Tied In At Manhole Locations.
5. Provide A 5/8 Inch X 10 Foot Ground Rod At Each Manhole Location. Attached A #2 Solid Tinned Ground Conductor From The Ground Rod To The Bonding Ribbon In The Manhole.
6. All Manhole Locations And Ductbank Routings Shall Be Coordinated With Existing Underground Utilities And Infrastructure.
7. All Ductbanks Shall Be Encased In Flowable Fill.
8. Contractor Shall Obtain A Private Mark Out Of The Area Of Work. Contractor Also To Coordinate With Local Utility Companies And New Jersey One Call (811) As Required By Those Entities To Identify And Mark Out All Buried Infrastructure And Utilities In The Vicinity Of Proposed Conduit Routing Prior To Any Excavation. Hand Digging In Certain Locations Is Highly Recommended.
9. Coordinate Routing Of Underground Duct Banks With Existing Field Conditions.

PARTIAL SYMBOLS & ABBREVIATIONS

Identifier	Description	Identifier	Description
⊙	Existing Manhole	ⓧ	Detail Identifier
■	New Manhole	ⓧ	Drawing # (Detail Location)
---	Remove Existing Fiber And Pull New Fiber Through Empty Conduit Pathway	ⓧ	Detail #
---	Existing Conduit Pathway Available For New Fiber Installation	ⓧ	Photo Identification Tag
---	No Existing Fiber Available - New Duct Bank, Trenching, And New Fiber Required	MDF	Main Distribution Frame
ⓧ	Building To Building Span ID	MH	Manhole
		MH#XX	Manhole Identification Tag
		POE	Point Of Entry
		WCH	Wall-Mounted Connector Housing

CAMPUS FIBER PART PLAN

Scale:
1/64"=1'-0"

16' 32' 64' 128'

Drawing: FA006
Detail: 01

title
CAMPUS CONDUIT ROUTING PLAN
ZONE 2

scale AS SHOWN
drawn by SC
checked by SG
date 09/18/2019

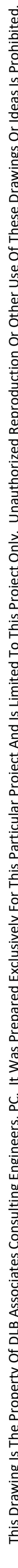
FA006

dlb associates
CONSULTING ENGINEERS, P.C.
265 Industrial Way West, Eatontown, N.J. 07724
Questions For DLB Call:
DLB Project ID: 47211
Anthony Laskosky
Phone: 732-927-5038

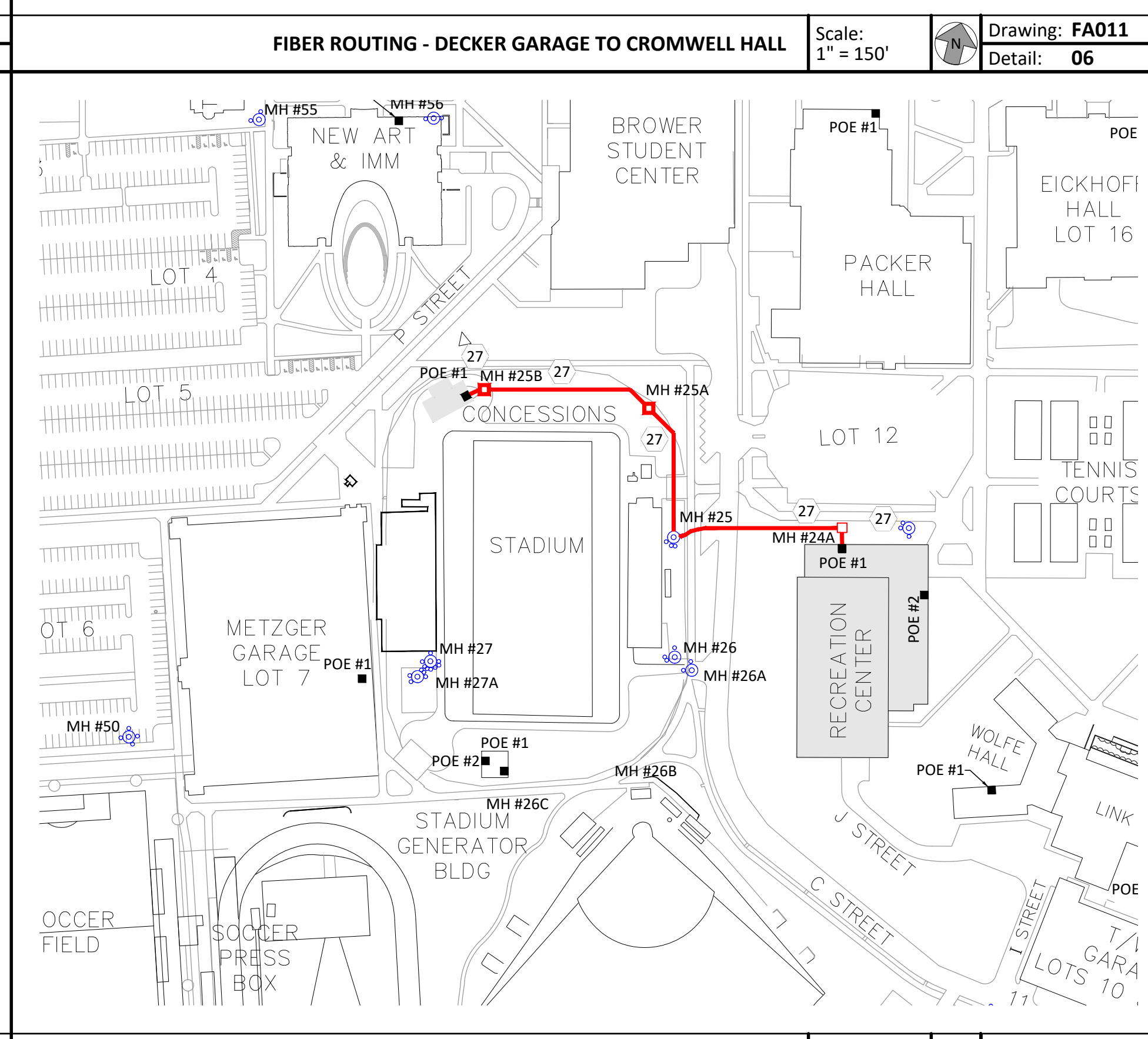
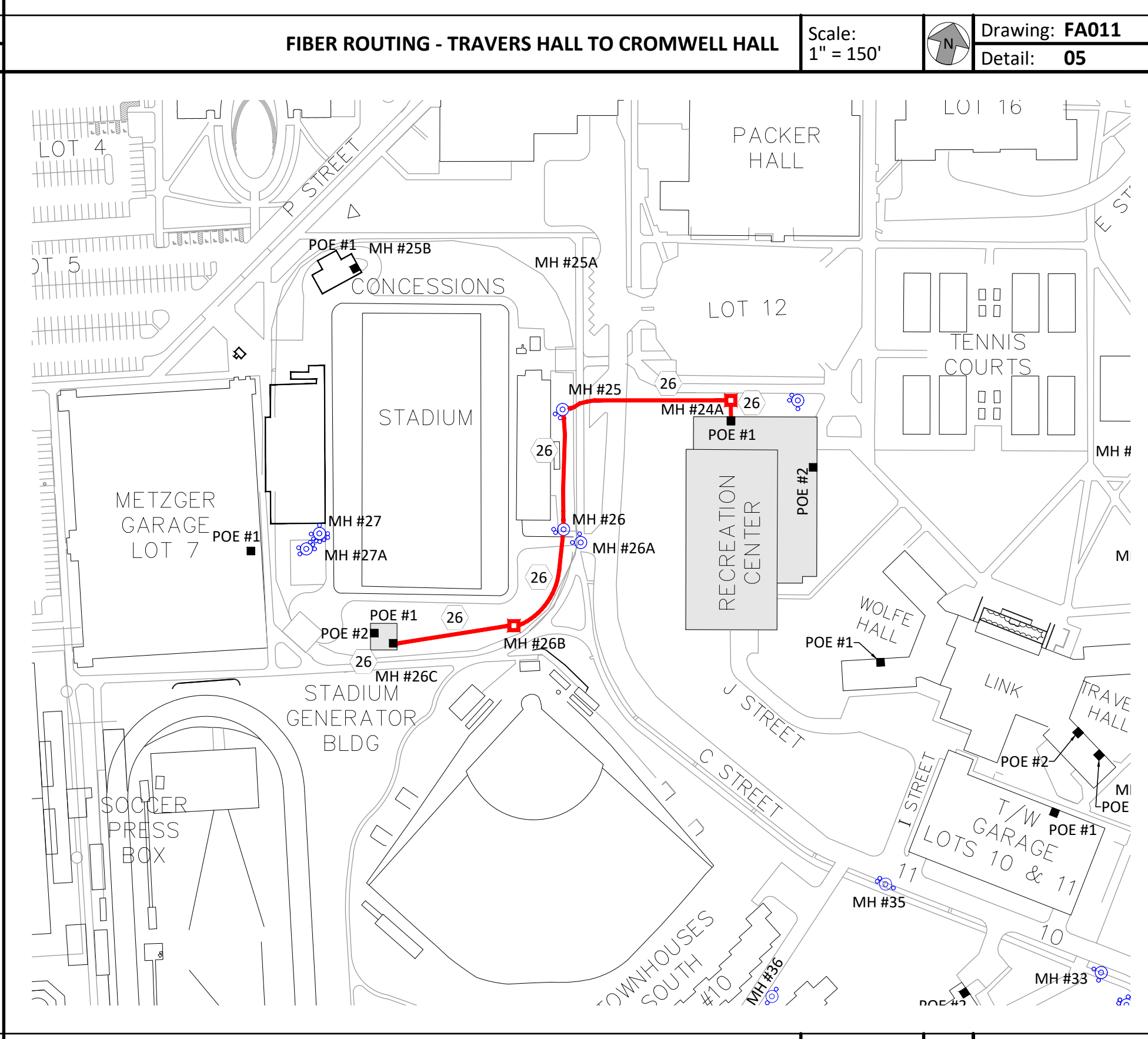
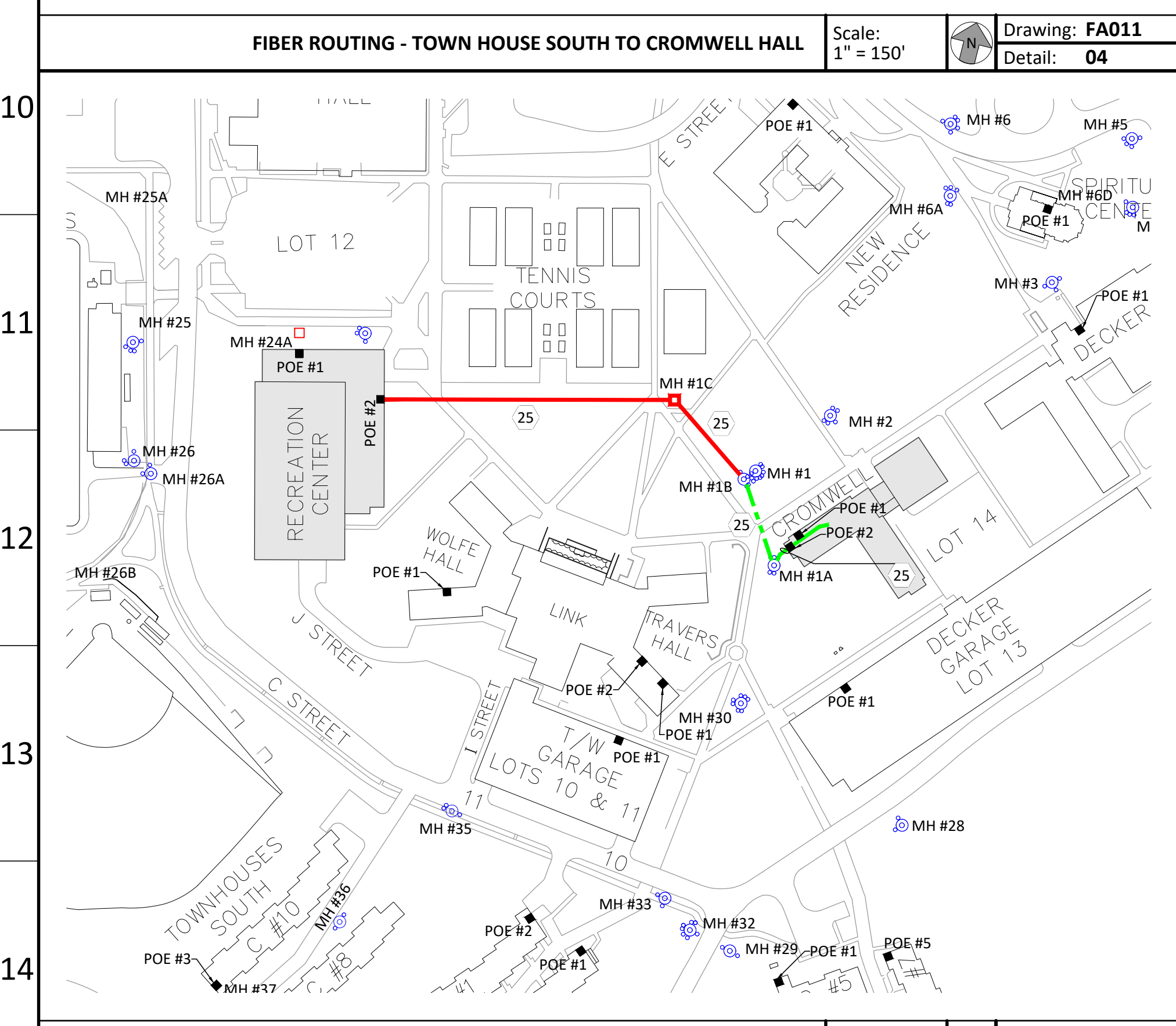
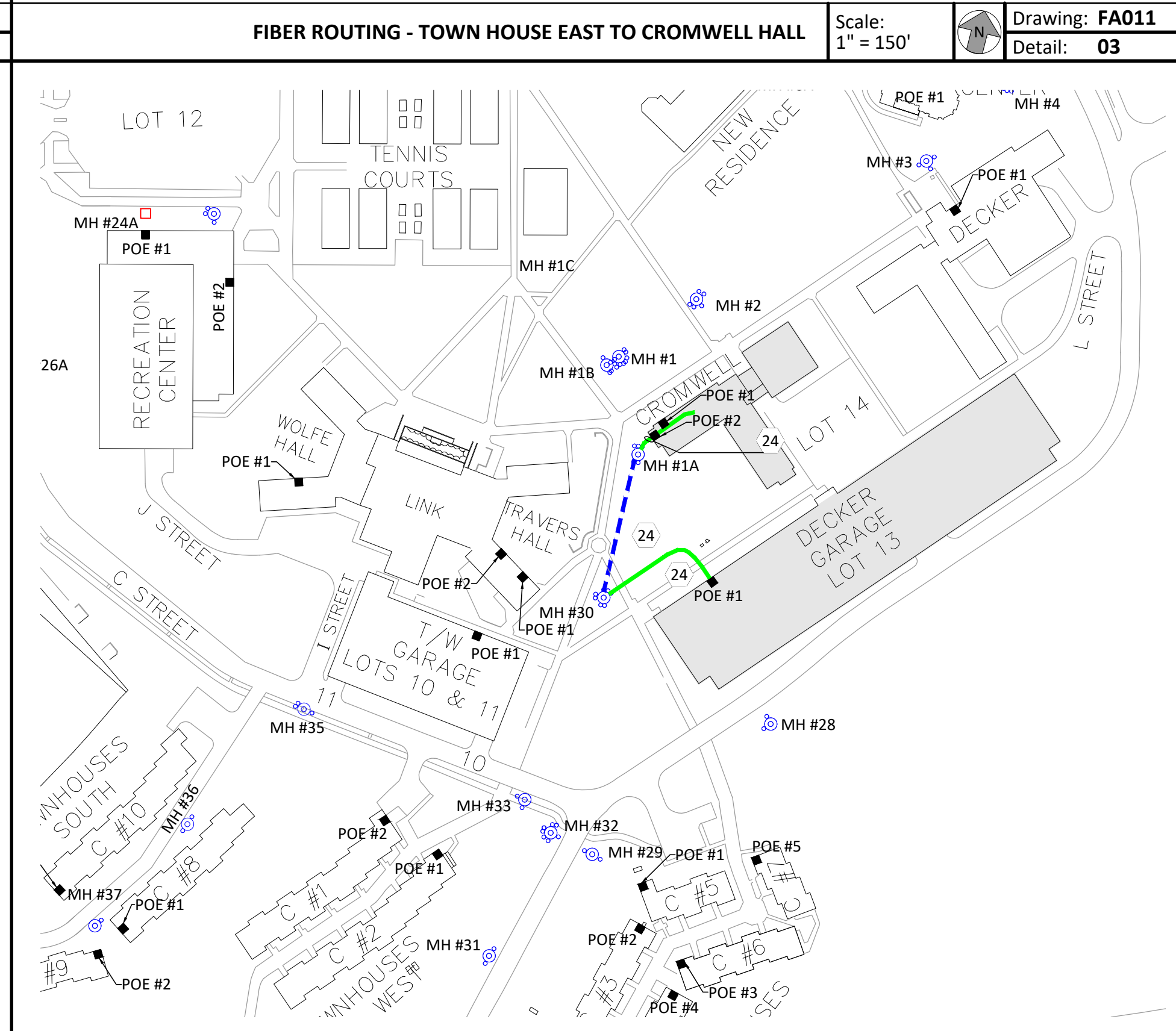
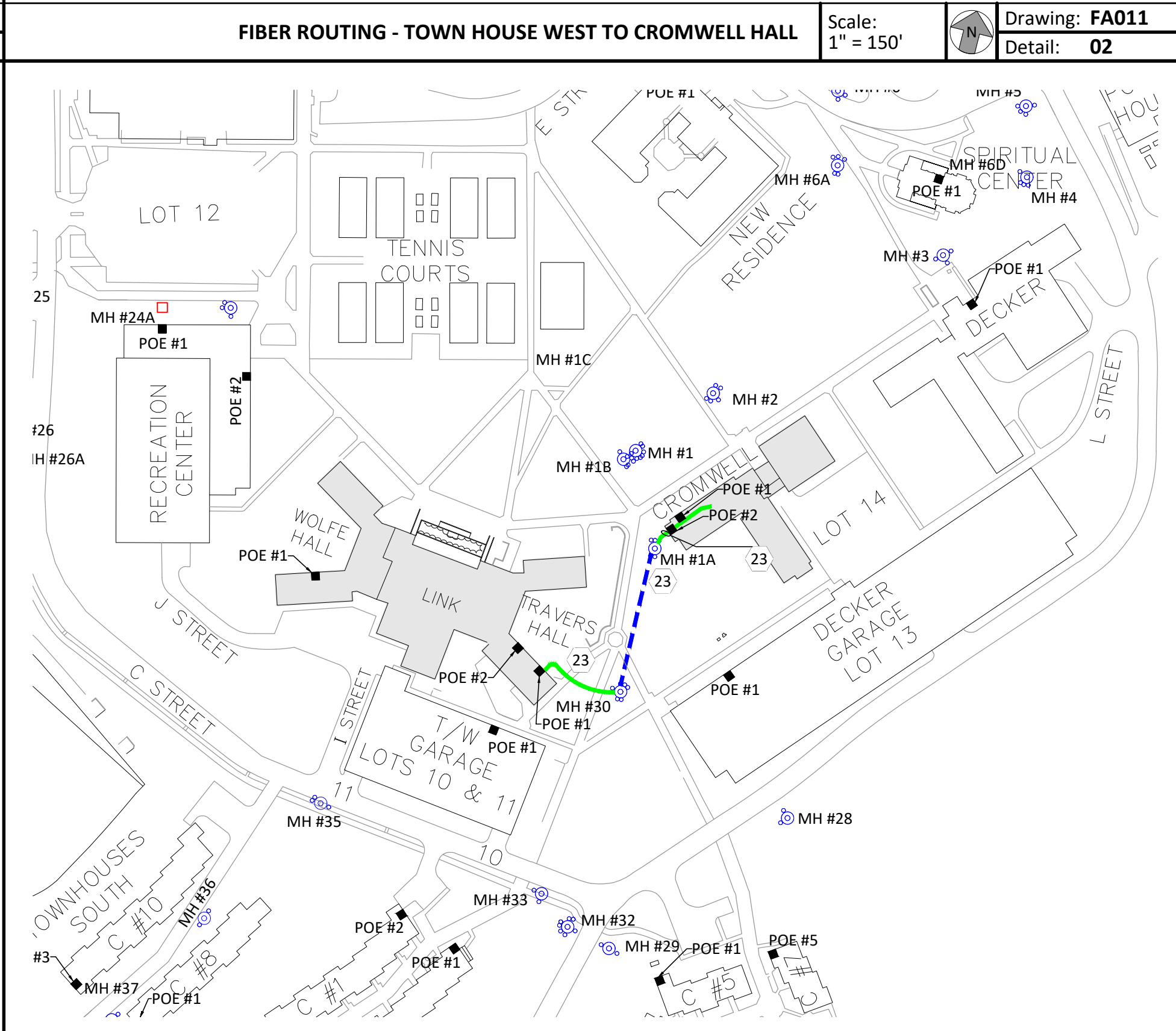
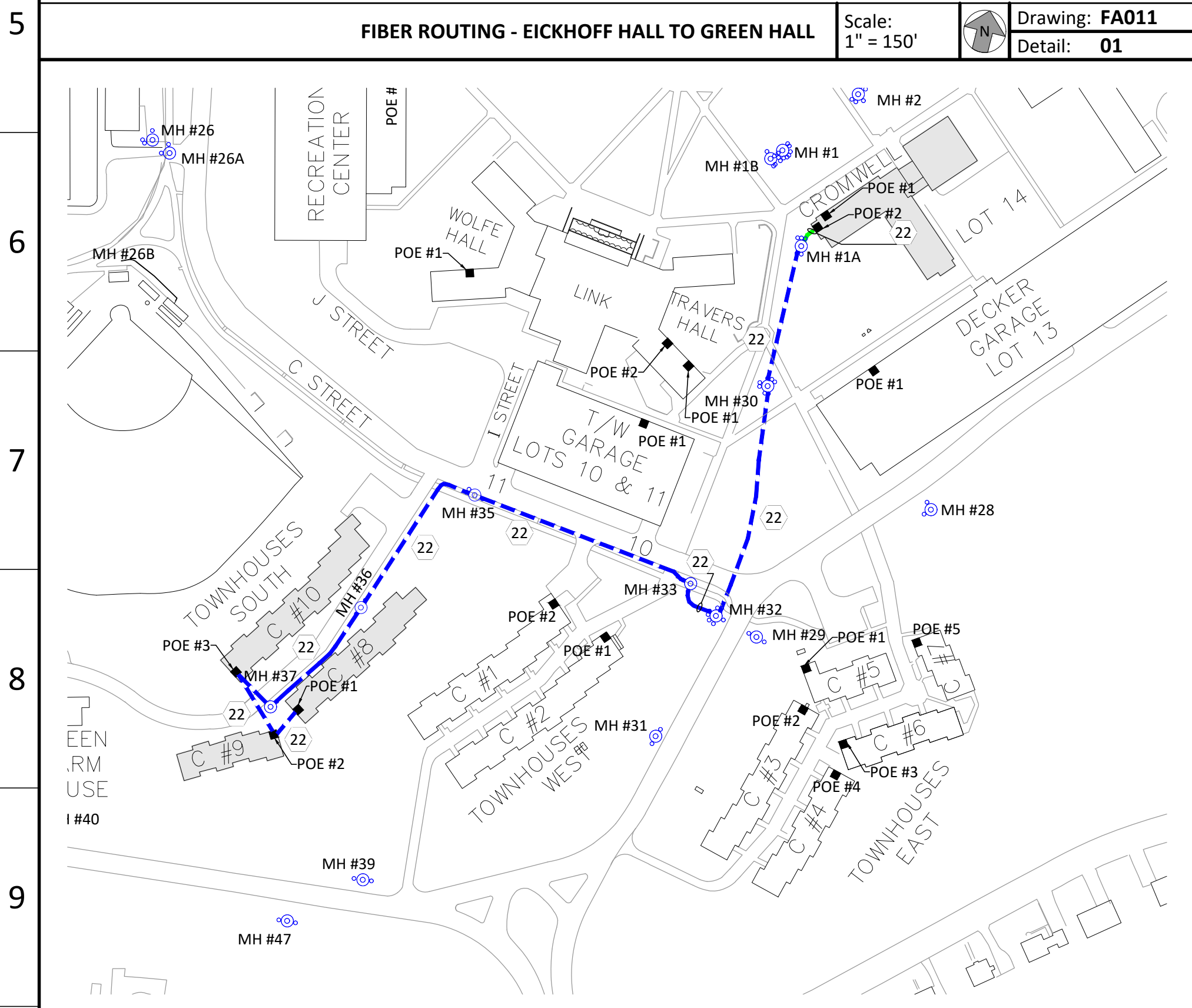
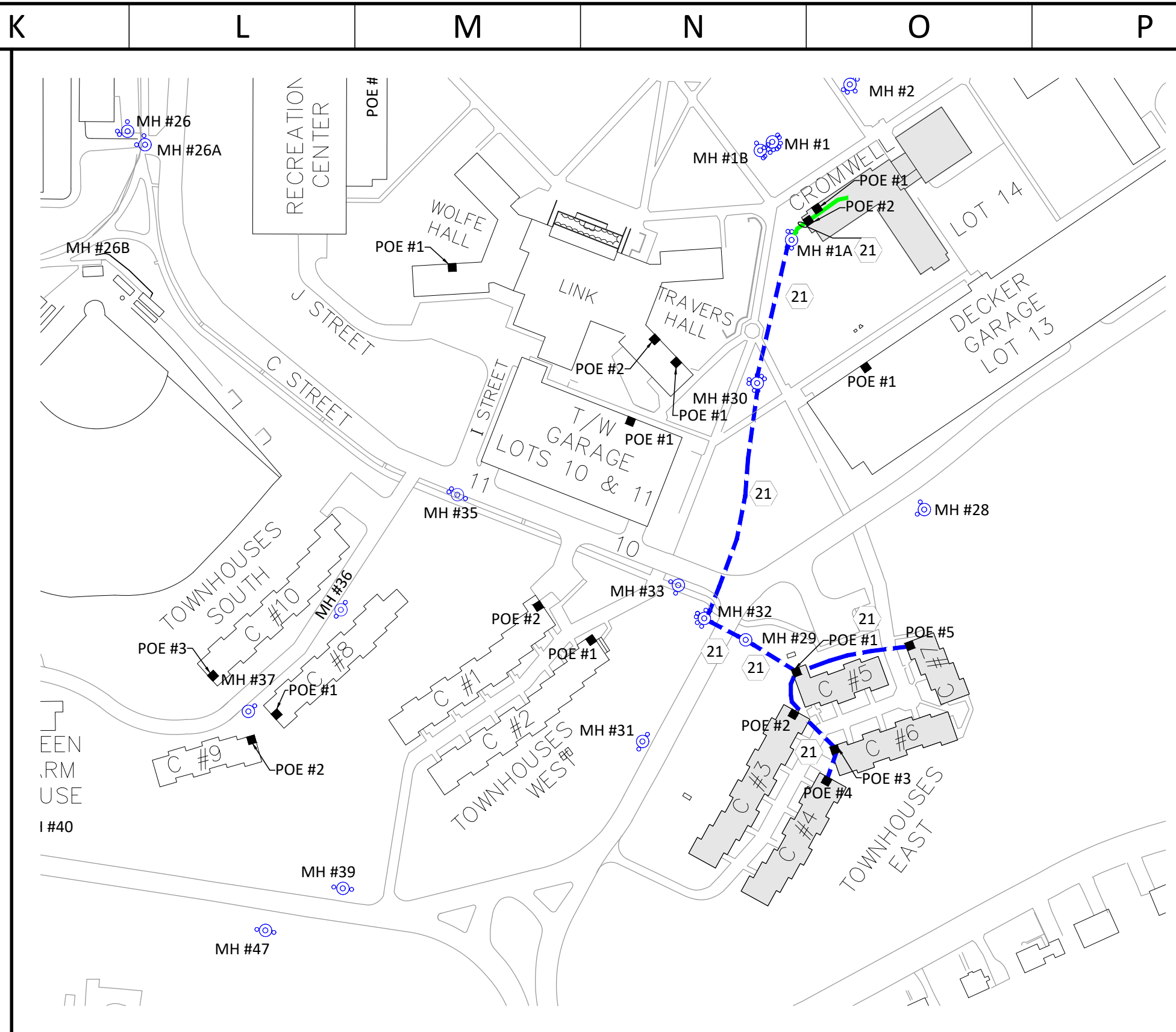
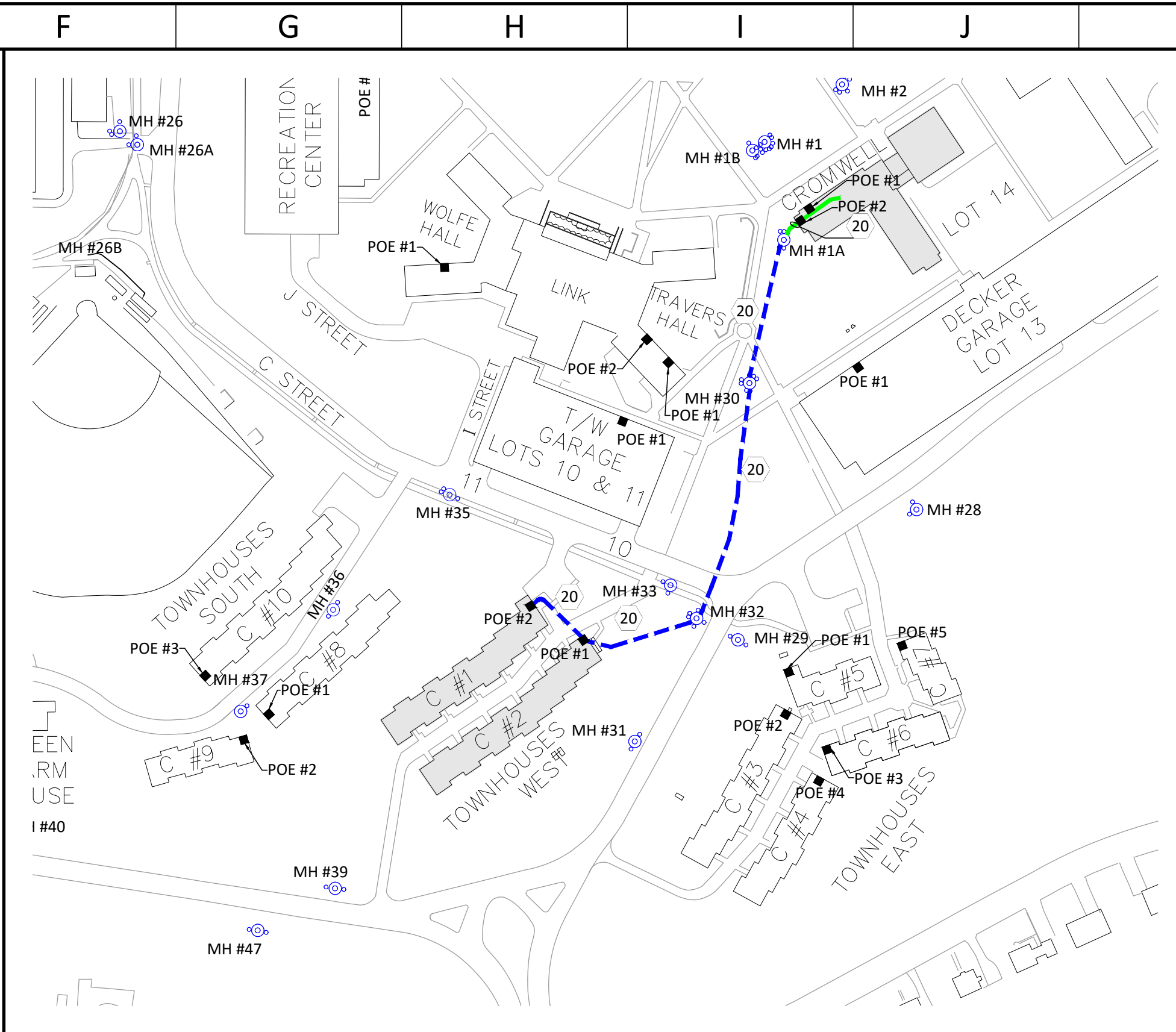
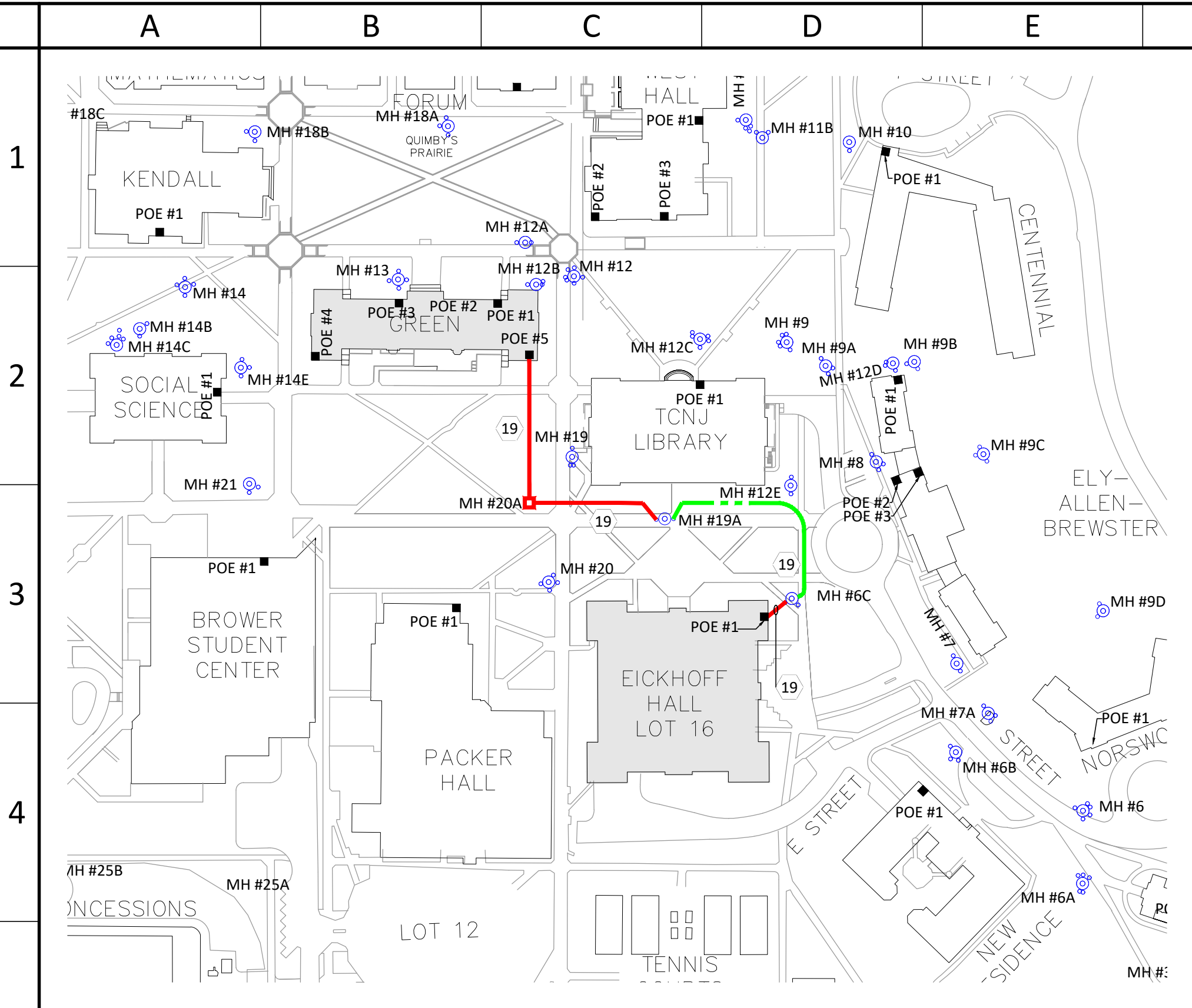
project
TCNJ - CAMPUS FIRE ALARM
CABLE INFRASTRUCTURE UPGRADES
2000 PENNINGTON ROAD,
EWING NJ, 08618

30x42

ITEM	DATE	ISSUE DESCRIPTION	ITEM	DATE	ISSUE DESCRIPTION
1	09/18/19	ISSUED FOR BID			



This Drawing is the Property of DLB Associates Consulting Engineers, P.C. It Was Prepared Exclusively For This Particular Project And is Limited To This Project Only. Unauthorized Reproduction Or Other Use Of These Drawings Or Ideas is Prohibited.



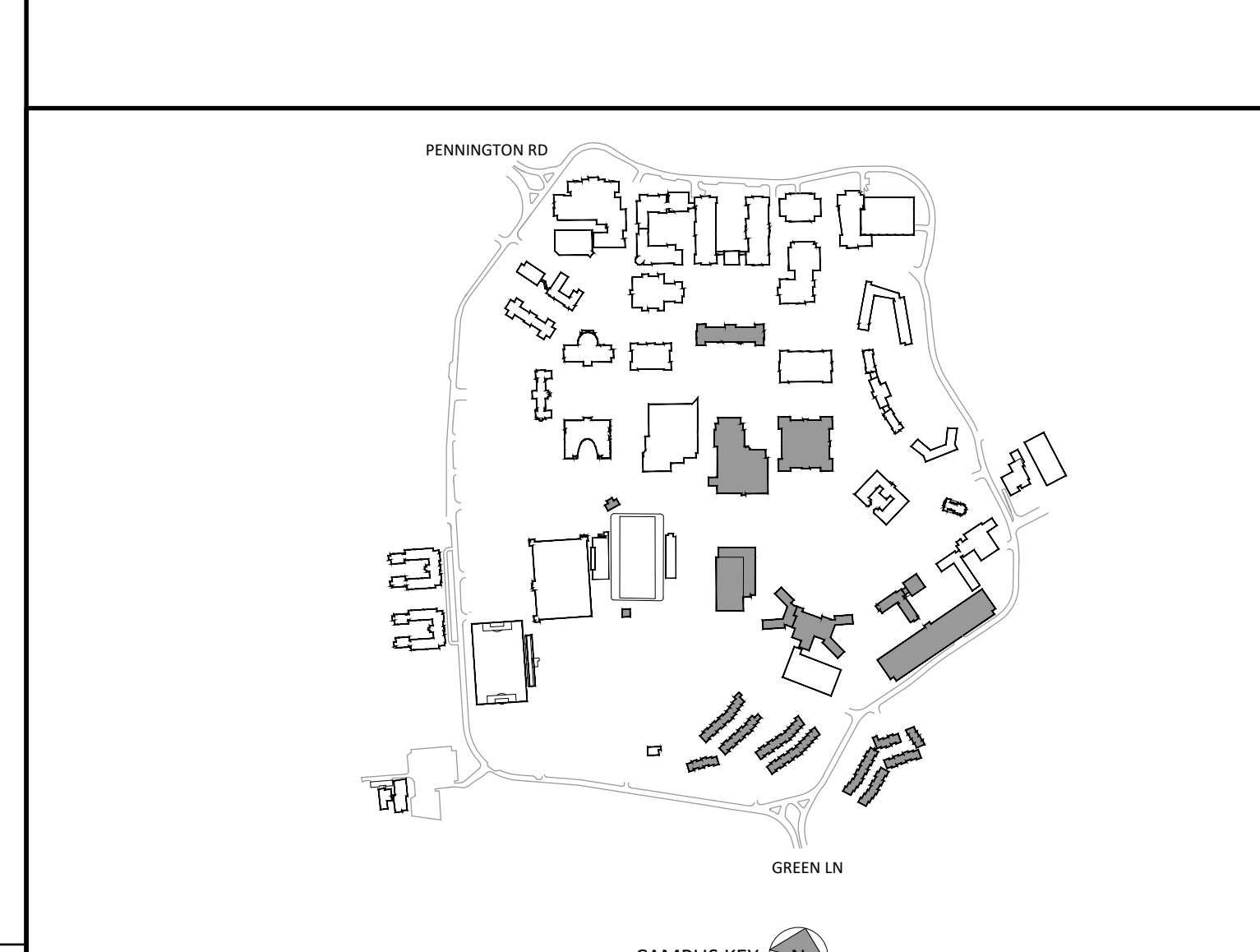
Fiber Routing					
Span ID	Starting Building	Ending Building	Empty Conduit	Hybrid Cable To Be Installed	
				Base Bid	Alternate #1
1	Armstrong Hall**	STEM Building	Yes	12/12	
2	Bliss Hall	Kendall Hall	Yes	12/12	48/48
3	Business Building	Kendall Hall	No	12/12	24/24
4	Trenton Hall	Kendall Hall	No	12/12	36/36
5	Music Building	Kendall Hall	No	12/12	24/24
6	AI/AM Building	Kendall Hall	N/A	0*	
	Social Science	Kendall Hall	Yes	12/12	36/36
	Kendall Hall	Green Hall	Yes		144/144
	Chemistry Building	STEM Building	N/A	0*	
	Physics Building	STEM Building	N/A	0*	
	Biology Building	STEM Building	N/A	0*	
	STEM Building	Green Hall	N/A	0*	
8	Forcina Hall	Roscoe Hall	Yes	12/12	24/24
	Education Building	Roscoe Hall	N/A	0*	
9	Centennial Hall	Roscoe Hall	No	12/12	24/24
10	Gilstein Library	Roscoe Hall	No	12/12	36/36
11	Roscoe Hall	Green Hall	No	12/12	96/96
	Norsworthy Hall	Ely-Allen-Brewster	N/A	0*	
12	Spiritual Center	Ely-Allen-Brewster	No	12/12	
13	Maintenance Building	Powerhouse	Yes	12/12	24/24
14	Powerhouse	Ely-Allen-Brewster	No	12/12	48/48
15	Decker Hall	Ely-Allen-Brewster	No	12/12	36/36
16	Ely-Allen-Brewster**	Green Hall	No	12/12	144/144
17	New Residence Hall	Eickhoff Hall	No	12/12	24/24
18	Packer Hall	Eickhoff Hall	No	12/12	36/36
	Brower Student Center	Eickhoff Hall	N/A	0*	
19	Eickhoff Hall	Green Hall	No	12/12	96/96
20	TH1 (Town House West)	Cromwell Hall	No	48/48	
21	TH5 21A/B (Town House East)	Cromwell Hall	No	(2) 36/36	
22	TH9 (Town House South)	Cromwell Hall	No	48/48	
23	Travers Hall	Cromwell Hall	Yes	12/12	
	Wolfe Hall	Cromwell Hall	N/A	0*	
24	Decker Garage	Cromwell Hall	Yes	12/12	
25	Recreation Center	Cromwell Hall	No	12/12	36/36
26	Stadium Generator Building	Recreation Center	No	12/12	
27	Stadium Concession Stand	Recreation Center	No	12/12	
28	Soccer Field Press Box 28A/B	Admin Splice	No	24/24	36/36
29	Metzger Garage	Admin Splice	No	24/24	
	Phelps Hall	Admin Splice	N/A	0*	
	Hausdoerffer Hall	Admin Splice	N/A	0*	
32	Cromwell Hall	Green Hall	No	12/12	144/144
33	Travers/Wolfe Garage	Travers Hall	Yes	12/12	
34	Forcina Garage	Education Building	No	12/12	
35	Fire Pump House	Admin Services Building	No	12/12	
36	Admin Services Building	Admin Splice	N/A	36/36	
41	Eickhoff Room 227	Eickhoff Room 337	No	-	48/48

GENERAL NOTES

- This Sheet's Purpose Is To Show The Fiber Pathway Between Buildings Where New Fiber Will Be Provided. See FA005-F008 For Further Campus Routing Information. See The Building Drawing Series For Further Building Routing Information.
- Each Fiber Run To Be One Continuous Run From MDF To MDF Without Any Splices.

PARTIAL SYMBOLS & ABBREVIATIONS

Identifier	Description
	Existing Manhole
	New Manhole
	Remove Existing Fiber And Pull New Fiber Through Empty Conduit Pathway
	Existing Conduit Pathway Available For New Fiber Installation
	No Existing Fiber Available - New Duct Bank, Trenching, And New Fiber Required
	Building To Building Span Number



ITEM	DATE	ISSUE DESCRIPTION	ITEM	DATE	ISSUE DESCRIPTION
1	09/18/19	ISSUED FOR BID			

Last Saved: N:\47\472\47211 - TCNJ Campus Fire Alarm\010 Cable Infrastructure Upgrade\47211 - 10 - FA011.dwg, 9/12/19 at 1:10 PM By HFLORES - Last Printed: 10/4/19 at 7:56 AM By Gowers, Scot

dlb associates
CONSULTING ENGINEERS, P.C.
265 Industrial Way West, Eatontown, N.J. 07724
Questions For DLB Call:
DLB Project ID: 47211
Anthony Laskosky
Phone: 732-927-5038

project
TCNJ - CAMPUS FIRE ALARM
CABLE INFRASTRUCTURE UPGRADES
2000 PENNINGTON ROAD,
EWING NJ, 08618

title BUILDING FIBER ROUTING	dwg. no. FA011
scale AS SHOWN	drawn by SC
checked by SG	date 09/18/2019

Confidential and Proprietary / ©DLB Associates 2019

