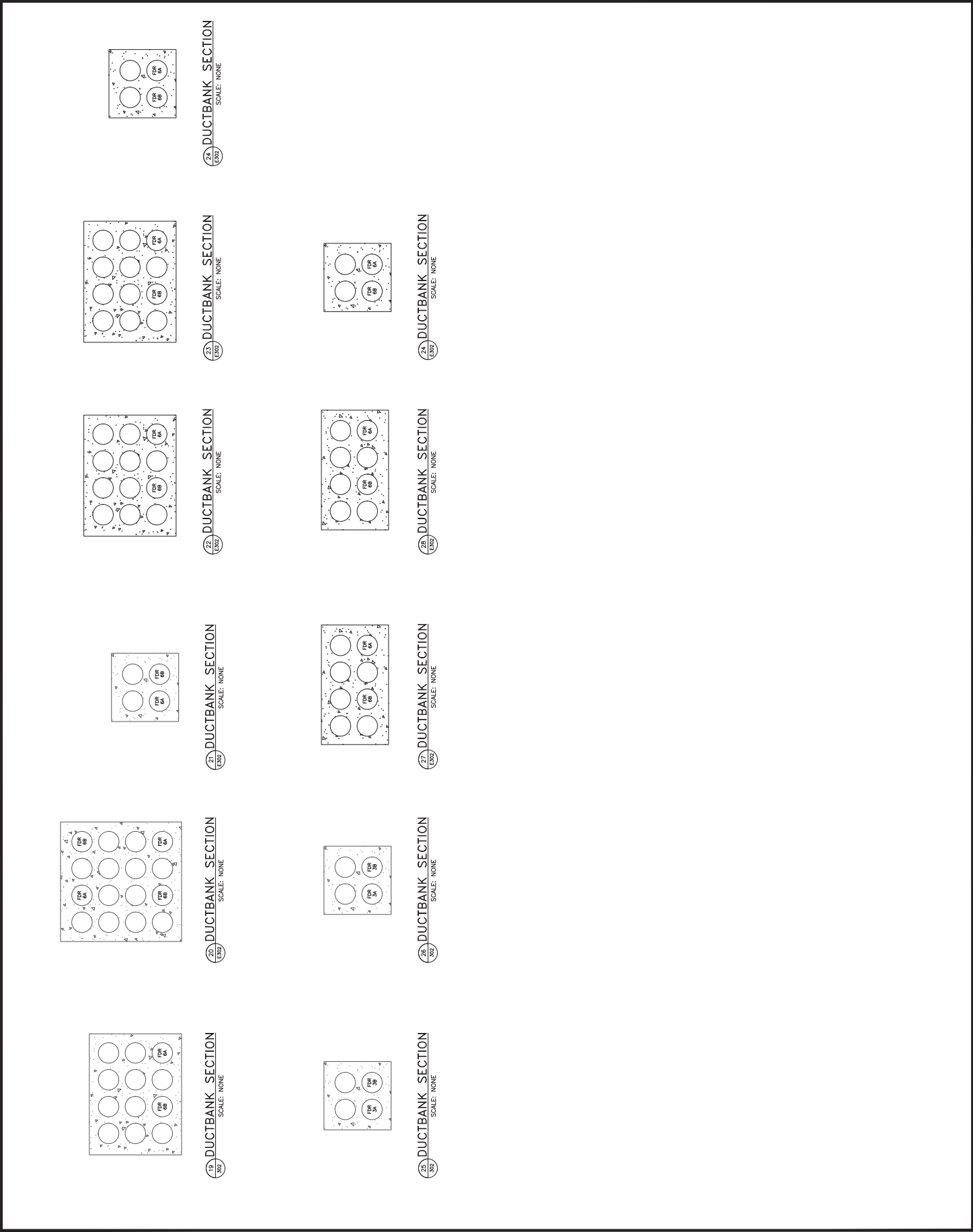
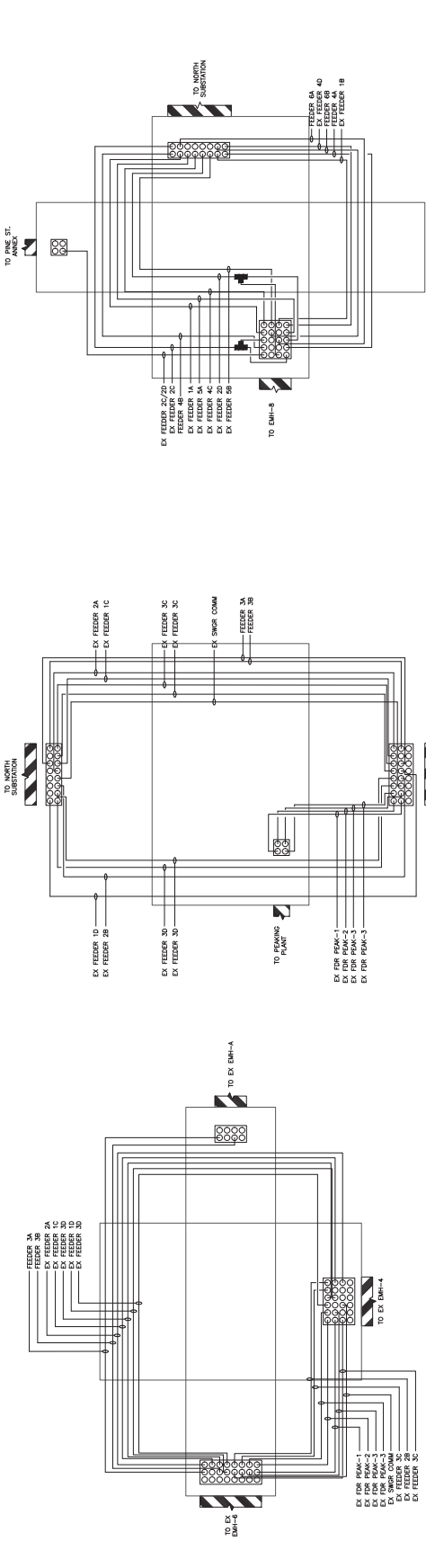




GENERAL NOTES:

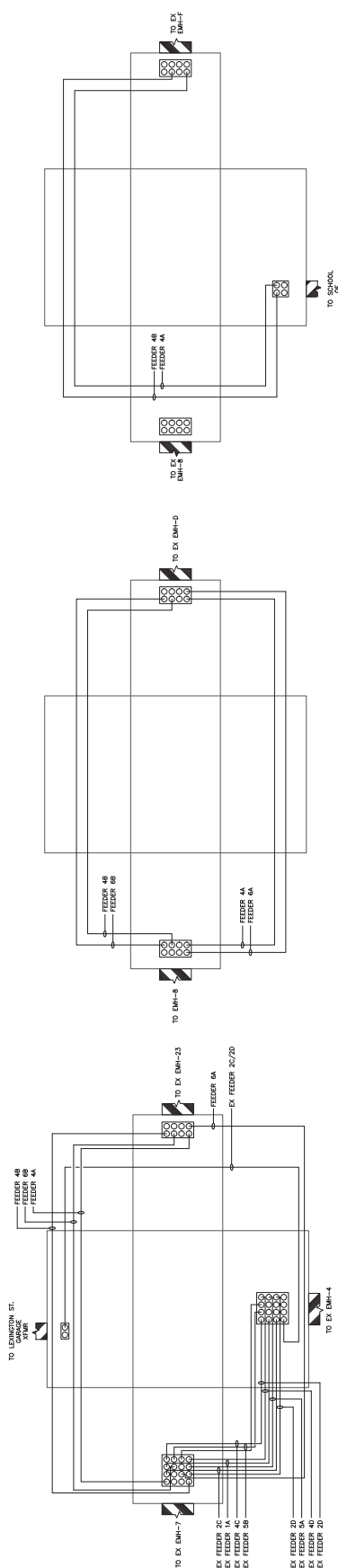
1. ALL MANHOLES SHALL BE MINIMUM 24" DIA. UNLESS OTHERWISE NOTED. CONTRACTOR SHALL TIE IN CABLES AROUND MANHOLE WALLS BY LONGEST ROUTE FROM ENTRY TO EXIT.
2. CONTRACTOR SHALL FIELD VERIFY EXISTING ACTIVE (USED) AND SPARE CONDUITS PRIOR TO ORDERING NEW CABLES. CONTRACTOR SHALL FIELD VERIFY EXISTING FIELD CONDITIONS AND CONTRACTOR PROPOSED CABLE INSTALLATION ROUTING AND SPACE LOCATIONS.
3. CONTRACTOR SHALL NOT BLOCK ANY SPARE JUNCTIONS. COORDINATE CABLE ROUTING WITH EXISTING RACKS AND CABLE ROUTING.
4. PROVIDE MINIMUM OF 4 NEW 20" FIBERGLASS BLOCKS AND 6" OF NEW FIBERGLASS STANCHIONS PER MANHOLE.



EXISTING MANHOLE EMH-5
SCALE: NONE

EXISTING MANHOLE EMH-6
SCALE: NONE

EXISTING MANHOLE EMH-7
SCALE: NONE



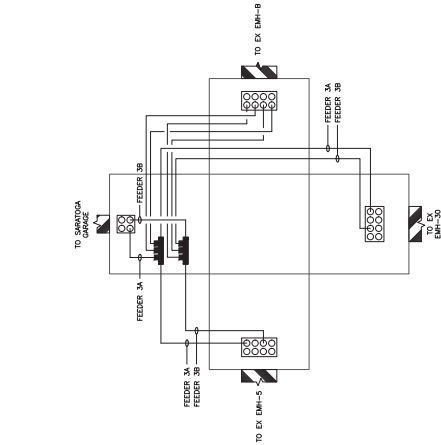
EXISTING MANHOLE EMH-8
SCALE: NONE

EXISTING MANHOLE EMH-23
SCALE: NONE

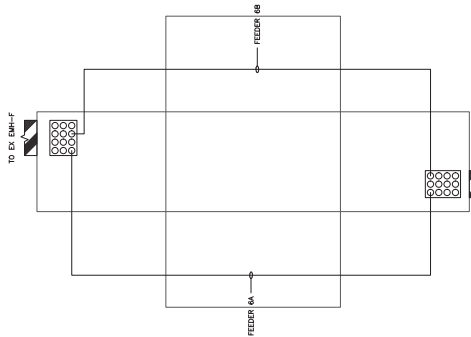
EXISTING MANHOLE EMH-24
SCALE: NONE

GENERAL NOTES:

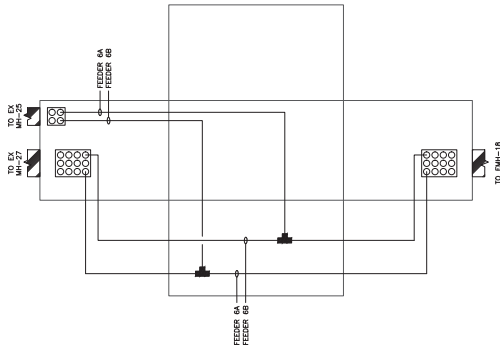
1. ALL CABLES SHALL BE INSTALLED IN MANHOLES. MANHOLES SHALL BE LOCATED AT THE POINTS OF ENTRY AND EXIT OF THE CABLES. THE MANHOLE SHALL BE THE LONGEST ROUTE FROM ENTRY TO EXIT.
2. CONTRACTOR SHALL FIELD VERIFY EXISTING ACTIVE (USED) AND SPARE CONDUITS PRIOR TO ORDERING NEW CABLES. IF ANY CONDUITS ARE FOUND TO BE INACTIVE, THE CONTRACTOR SHALL PROVIDE A FIELD VERIFICATION OF THE EXISTING FIELD CONDITIONS AND CONTRACTOR PROPOSED CABLE INSTALLATION ROUTING AND SPICE LOCATIONS.
3. THE CONTRACTOR SHALL NOT BLOCK ANY SPARE BUCKS. COORDINATE CABLE ROUTING WITH EXISTING RACKS AND CABLE ROUTING.
4. PROVIDE MINIMUM OF 4 NEW 20" FIBERGLASS BUCKS AND 6" OF NEW FIBERGLASS STANCHIONS PER MANHOLE.



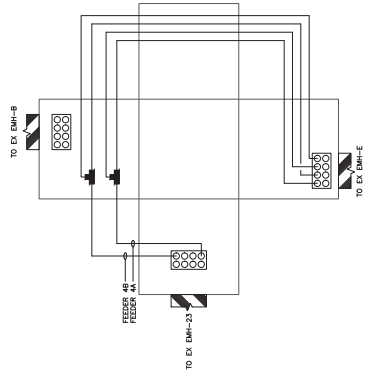
EXISTING MANHOLE MH-25A
SCALE: NONE



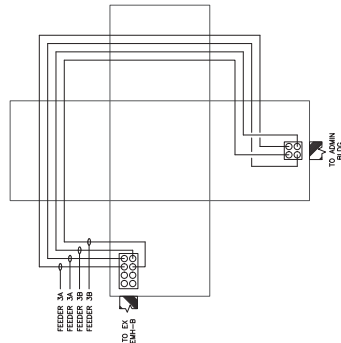
EXISTING MANHOLE MH-27
SCALE: NONE



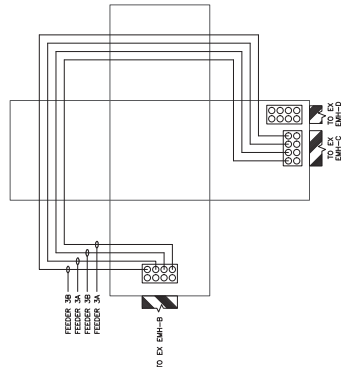
EXISTING MANHOLE MH-28
SCALE: NONE



EXISTING MANHOLE MH-29
SCALE: NONE



EXISTING MANHOLE MH-30
SCALE: NONE



EXISTING MANHOLE MH-31
SCALE: NONE

EXISTING MANHOLE MH-32
SCALE: NONE



ADMINISTRATOR & FINANCE
UNIVERSITY OF MARYLAND
1000 UNIVERSITY DRIVE
ANNAPOLIS, MD 21403-5000
PHONE: (410) 794-7748
FAX: (410) 794-5047

KEY PLAN



R/E CONSULTANTS
BME ENGINEERING, INC.
1500 WASHINGTON AVENUE, SUITE 200
BALTIMORE, MD 21201
P: 410.576.0595 F: 410.385.0327

PROFESSIONAL CERTIFICATION, I HAVE BY MY SIGNATURE AND SEAL, PREPARED OR SUPERVISED THE PREPARATION OF THESE PLANS AND I AM A LICENSED PROFESSIONAL ENGINEER UNDER THE LAWS OF THE STATE OF MARYLAND.
DATE: 06/13/2023
SIGNATURE: [Signature]



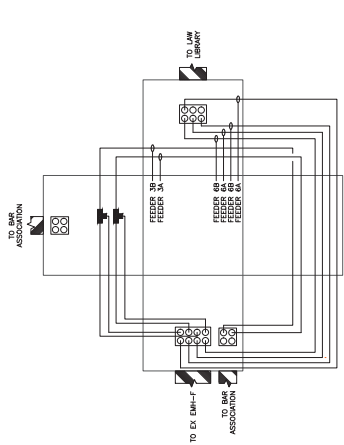
PROJECT TITLE:
CAMPUS
ELECTRICAL
DISTRIBUTION
UPGRADES -
PHASE 4
100% CD SUBMISSION
UMB BUILDING NO.: YANIQUE
UMB PROJECT NO.: 17-287
UMB PROJECT NO.: 17-287
UMB PROJECT NO.: 17-287
DATE: 06/13/2023

SHEET TITLE:
ELECTRIC
DISTRIBUTION
BUTTERFLY
DIAGRAM

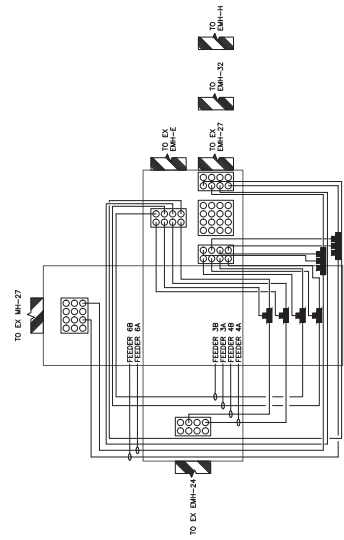
NO.	DATE	ITEM

SHEET NO.
E305

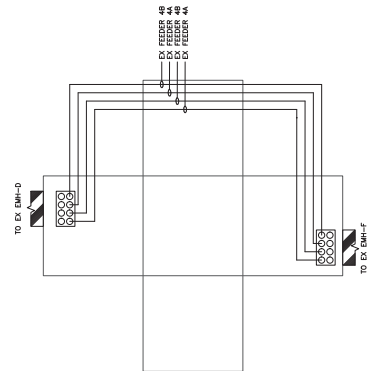
- GENERAL NOTES:
1. ALL CABLES SHALL BE INSTALLED IN ACCORDANCE WITH THE LATEST EDITION OF THE NATIONAL ELECTRICAL CODE (NEC) AND THE NATIONAL FIRE PROTECTION ASSOCIATION (NFPA) 70B. THE CONTRACTOR SHALL VERIFY THE EXISTING ACTIVE (USED) AND SPARE CABLES PRIOR TO ORDERING NEW CABLES. THE CONTRACTOR SHALL VERIFY THE EXISTING FIELD CONDITIONS AND CONTRACTOR PROPOSED CABLE INSTALLATION ROUTING AND SPICE LOCATIONS.
 2. THE CONTRACTOR SHALL NOT BLOCK ANY SPARE SPICES. COORDINATE CABLE ROUTING WITH EXISTING RACKS AND CABLE ROUTING.
 3. PROVIDE MINIMUM OF 4 NEW 20" FIBERGLASS RACKS AND 6" OF NEW FIBERGLASS STANCHIONS PER MANHOLE.



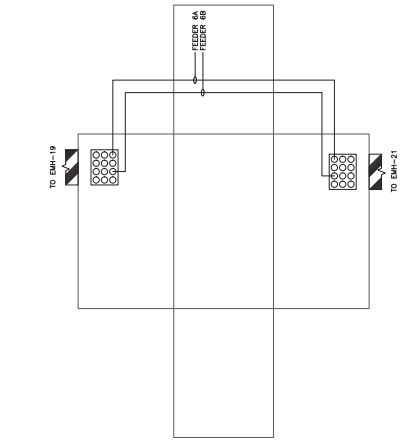
EXISTING MANHOLE EMH-19
SCALE: NONE



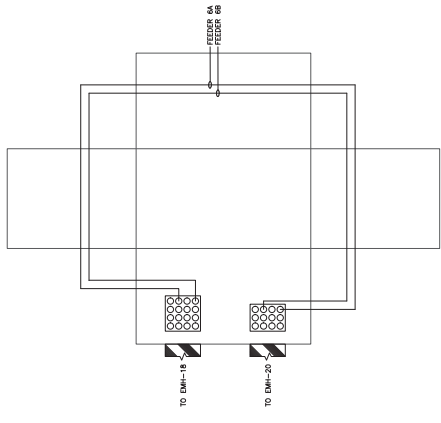
EXISTING MANHOLE EMH-20
SCALE: NONE



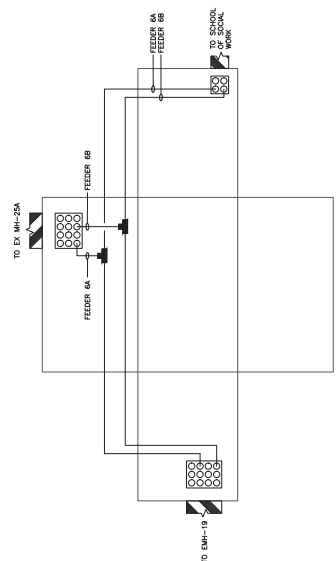
EXISTING MANHOLE EMH-18
SCALE: NONE



MANHOLE EMH-19
SCALE: NONE



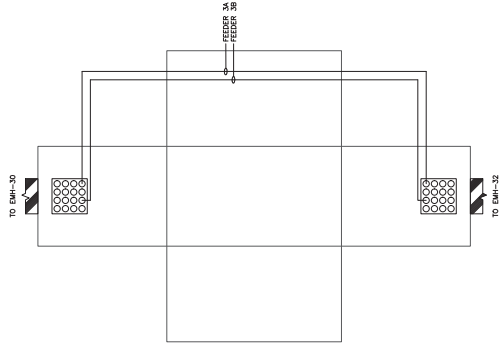
MANHOLE EMH-20
SCALE: NONE



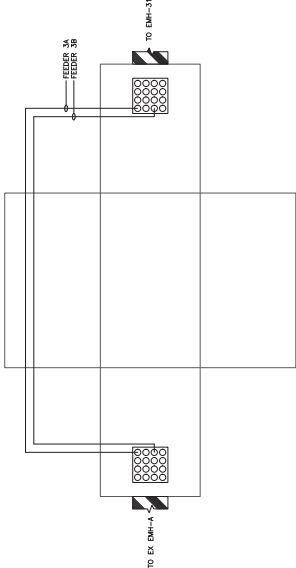
MANHOLE EMH-18
SCALE: NONE

GENERAL NOTES:

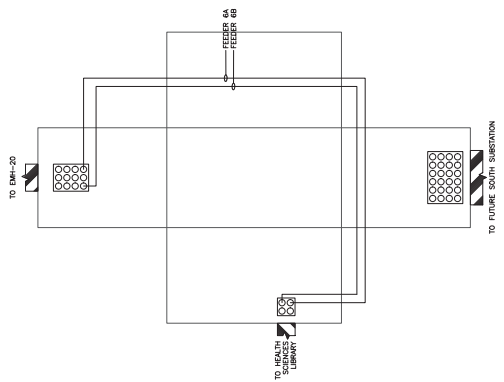
1. ALL CABLES SHALL BE INSTALLED IN MANHOLE. CONTRACTOR SHALL TRIM CABLES AROUND MANHOLE WALLS BY LONGEST ROUTE FROM ENTRY TO EXIT.
2. CONTRACTOR SHALL FIELD VERIFY EXISTING ACTIVE (USED) AND SPARE CABLES PRIOR TO ORDERING NEW CABLES. CONTRACTOR SHALL FIELD VERIFY EXISTING CABLES AND SPARE CABLES TO BE REMOVED TO REMOVE THE EXISTING FIELD CONDITIONS AND CONTRACTOR PROPOSED CABLE INSTALLATION ROUTING AND SPICE LOCATIONS.
3. NEW CABLES SHALL NOT BLOCK ANY SPARE CABLES. CONTRACTOR SHALL COORDINATE CABLE ROUTING WITH EXISTING RACKS AND CABLE ROUTING.
4. PROVIDE MINIMUM OF 4 NEW 20" FIBERGLASS BUCKS AND 6" OF NEW FIBERGLASS STANCHIONS PER MANHOLE.



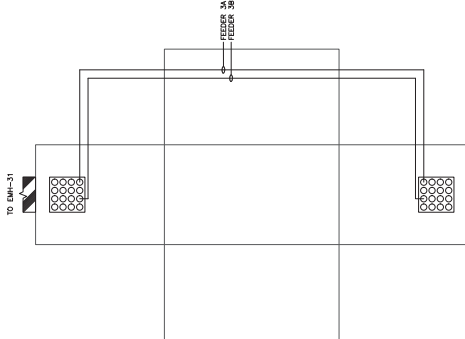
MANHOLE EMH-31
SCALE: NONE



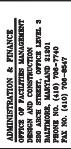
MANHOLE EMH-30
SCALE: NONE



MANHOLE EMH-21
SCALE: NONE



MANHOLE EMH-32
SCALE: NONE



KEY PLAN

A/E CONSULTANTS

rmf

RMF ENGINEERING, INC.
5520 RESEARCH PARK DR, 3RD FLR
BALTIMORE, MD 21228
P: 410.576-0505 F: 410.385-0327



PROFESSIONAL CERTIFICATION. I HEREBY
CERTIFY THAT THESE DOCUMENTS WERE
PREPARED OR APPROVED BY ME, AND THAT I
AM A DULY LICENSED PROFESSIONAL ENGINEER
UNDER THE LAWS OF THE STATE OF MARYLAND.

LICENSE No. 48184
EXPIRATION DATE: 01-14-2024



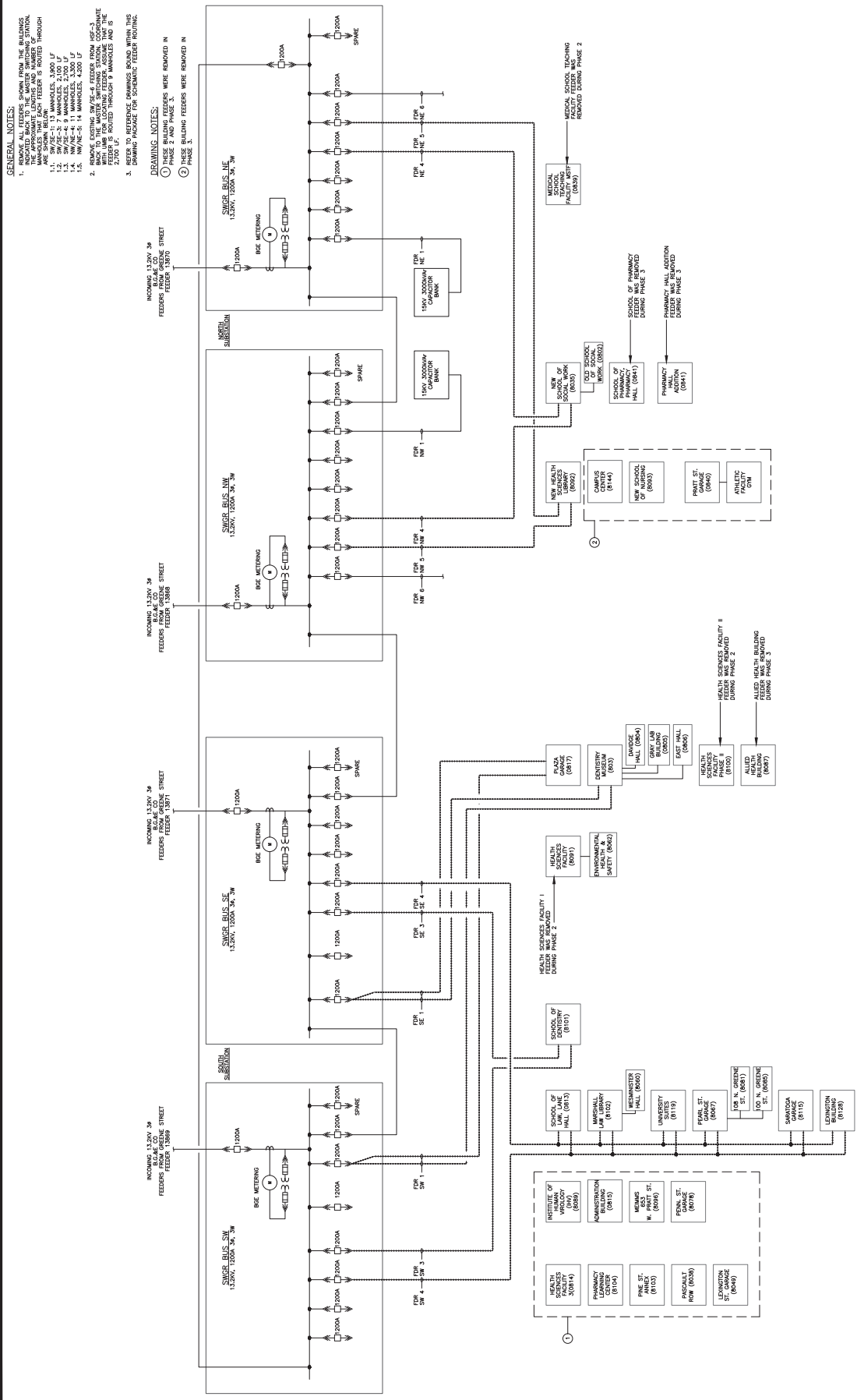
PROJECT TITLE :
CAMPUS
ELECTRICAL
DISTRIBUTION
UPGRADES -
PHASE 4

100% CD SUBMISSION
UMB BUILDING NO. : VARIOUS
UMB Project NO. : 17-317
A/E PROJECT NO. : 117081.A0
CAD FILE NO. :

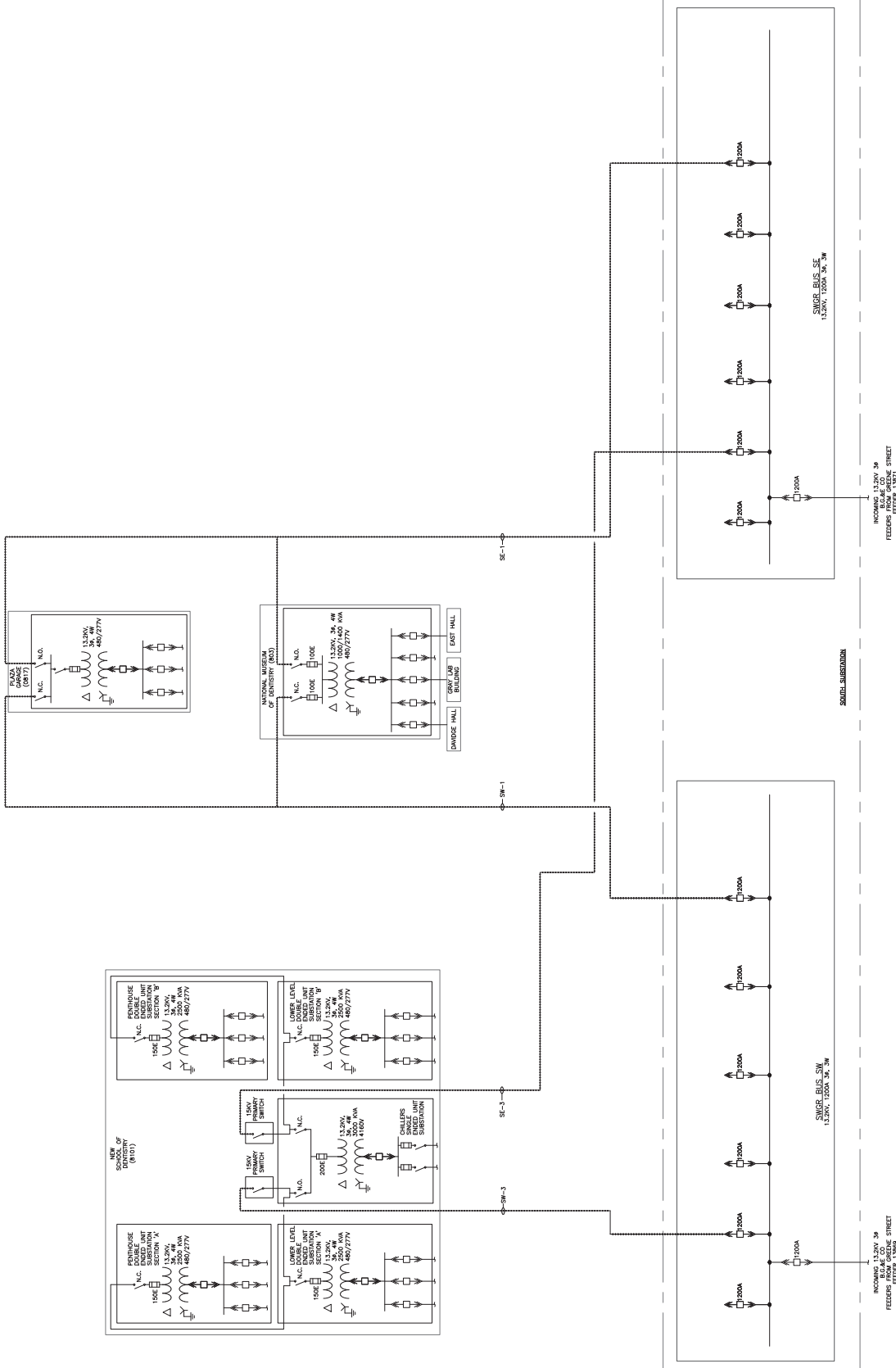
SHEET TITLE :
**CAMPUS
SINGLE LINE
DIAGRAM -
DEMOLITION**

[illegible]

SHEET NO. ED601

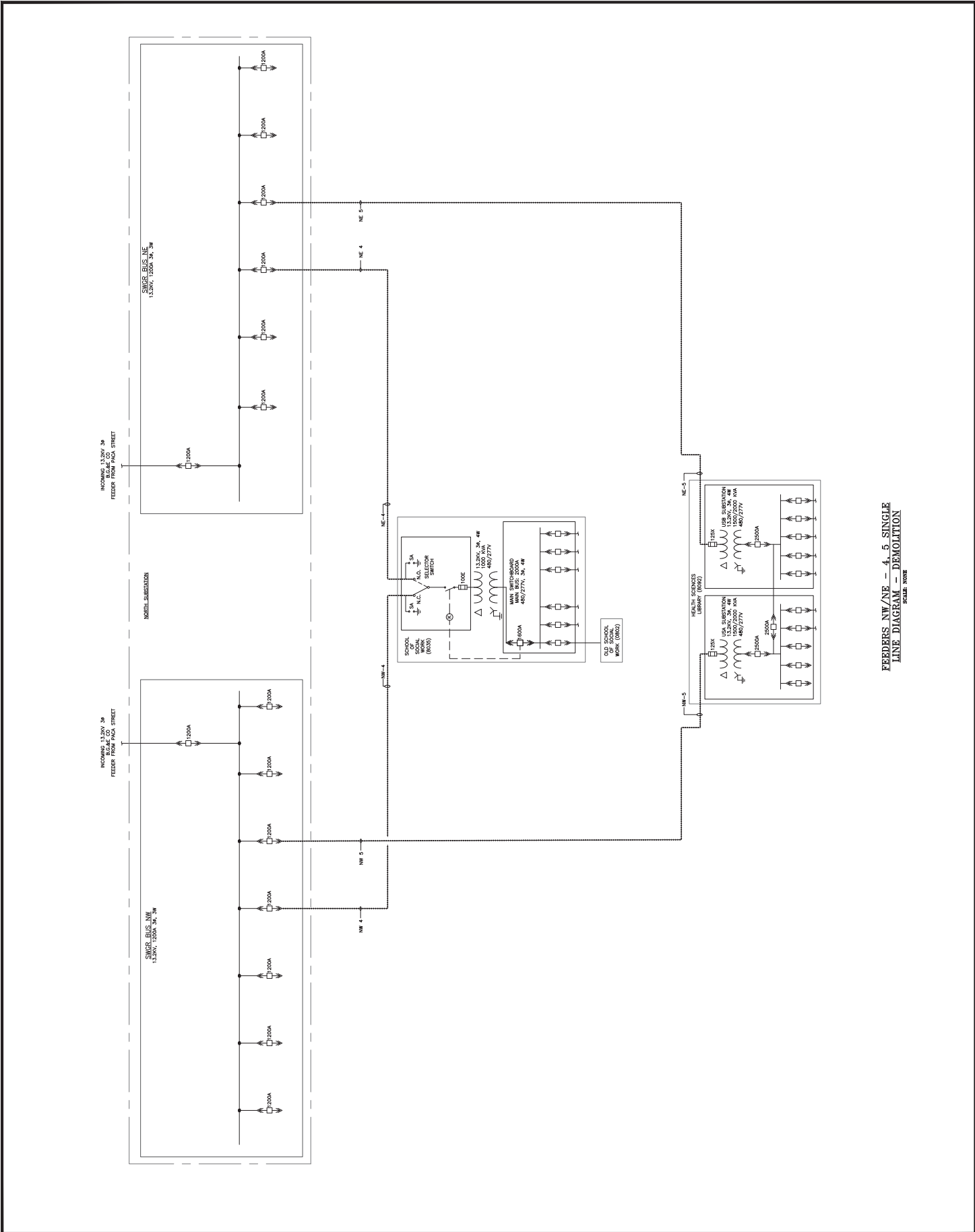


CAMPUS SINGLE LINE DIAGRAM - DEMOLITION



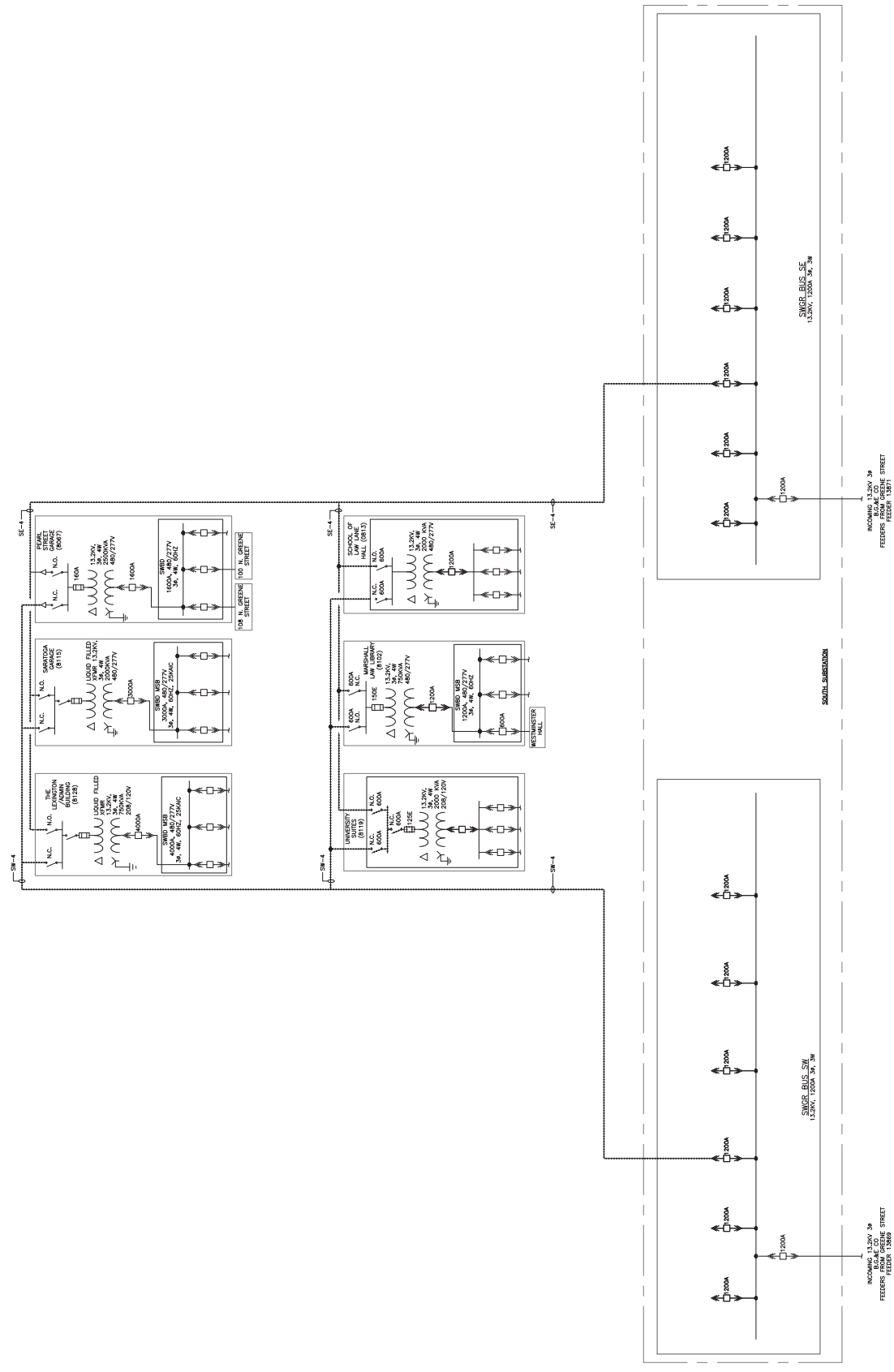
FEEDERS SW/SE - 1, 3 SINGLE LINE
DIAGRAM - DEMOLITION

SCALE: NONE

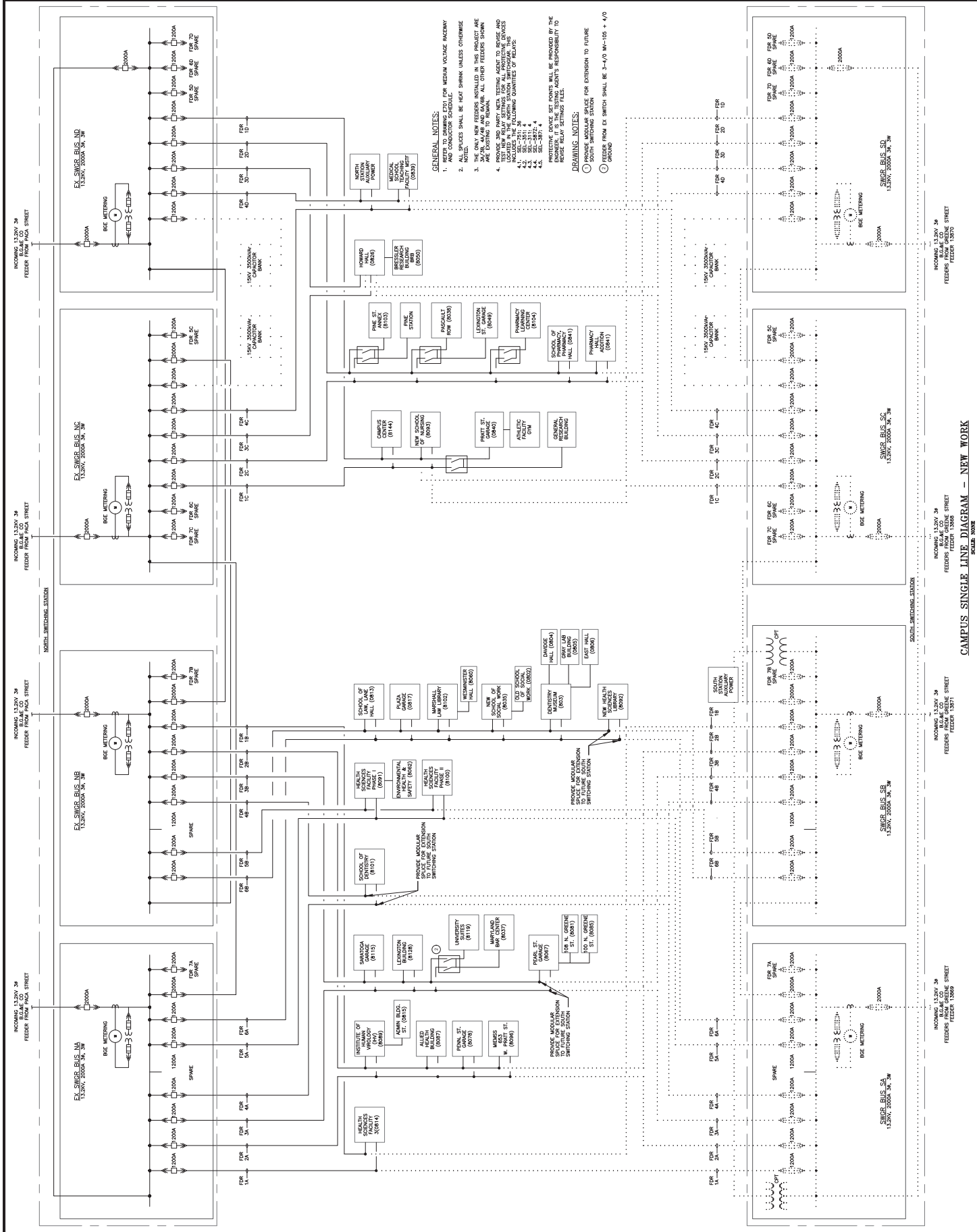


FEEDERS NW/NE - 4, 5 SINGLE
LINE DIAGRAM - DEMOLITION
SCALE: NONE

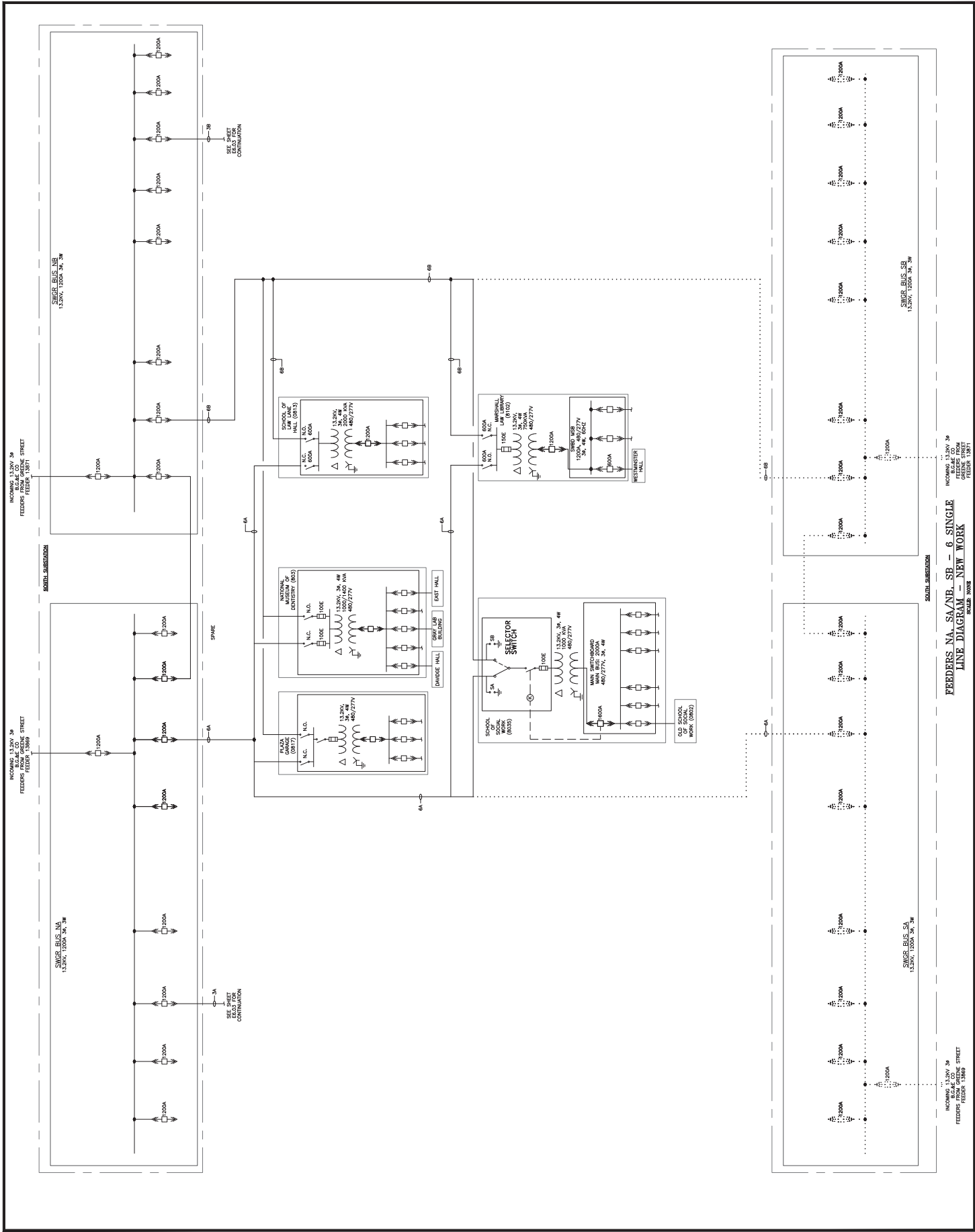
REVISIONS	
NO.	DATE

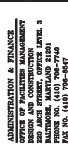


FEEDERS SW/SE - 4, SINGLE LINE
DIAGRAM - DEMOLITION
SHEET TITLE



CAMPUS SINGLE LINE DIAGRAM - NEW WORK



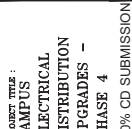


A/E CONSULTANTS



PROFESSIONAL CERTIFICATION. I HEREBY CERTIFY THAT THESE DOCUMENTS WERE PREPARED OR APPROVED BY ME, AND THAT I AM A DULY LICENSED PROFESSIONAL ENGINEER UNDER THE LAWS OF THE STATE OF MARYLAND.

DATE: 01/14/2024
 48184
 EXPIRATION DATE: 01/14/2024

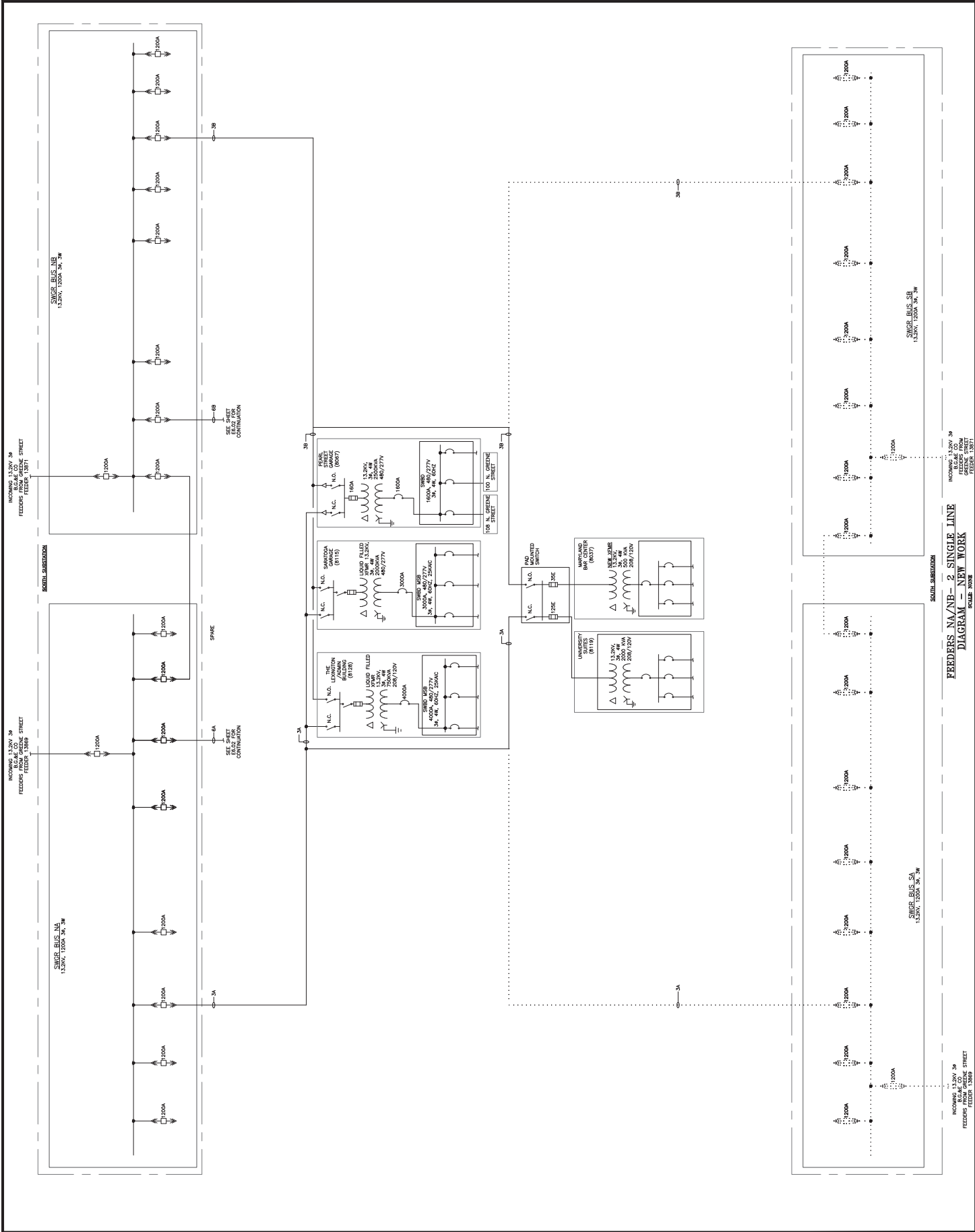


BB BUILDING NO. : VARIOUS
 BB Project NO. : 17-317
 E PROJECT NO. : 117061.A0
 D FILE NO. :
 FE : 09/19/2023

TEST TITLE :
FEEDERS
NA/NB - 3
SINGLE LINE
DIAGRAM -
NEW WORK

REVISIONS	
DATE	ITEM

REF NO. E603





A/E CONSULTANTS



PROFESSIONAL CERTIFICATION. I HEREBY
CERTIFY THAT THESE DOCUMENTS WERE
PREPARED OR APPROVED BY ME, AND THAT I
AM A DULY LICENSED PROFESSIONAL ENGINEER
UNDER THE LAWS OF THE STATE OF MARYLAND.

LICENSE No. 46184
EXPIRATION DATE: 07-14-2024



PROJECT TITLE :
CAMPUS
ELECTRICAL
DISTRIBUTION
UPGRADES -
PHASE 4

100% CD SUBMISSION

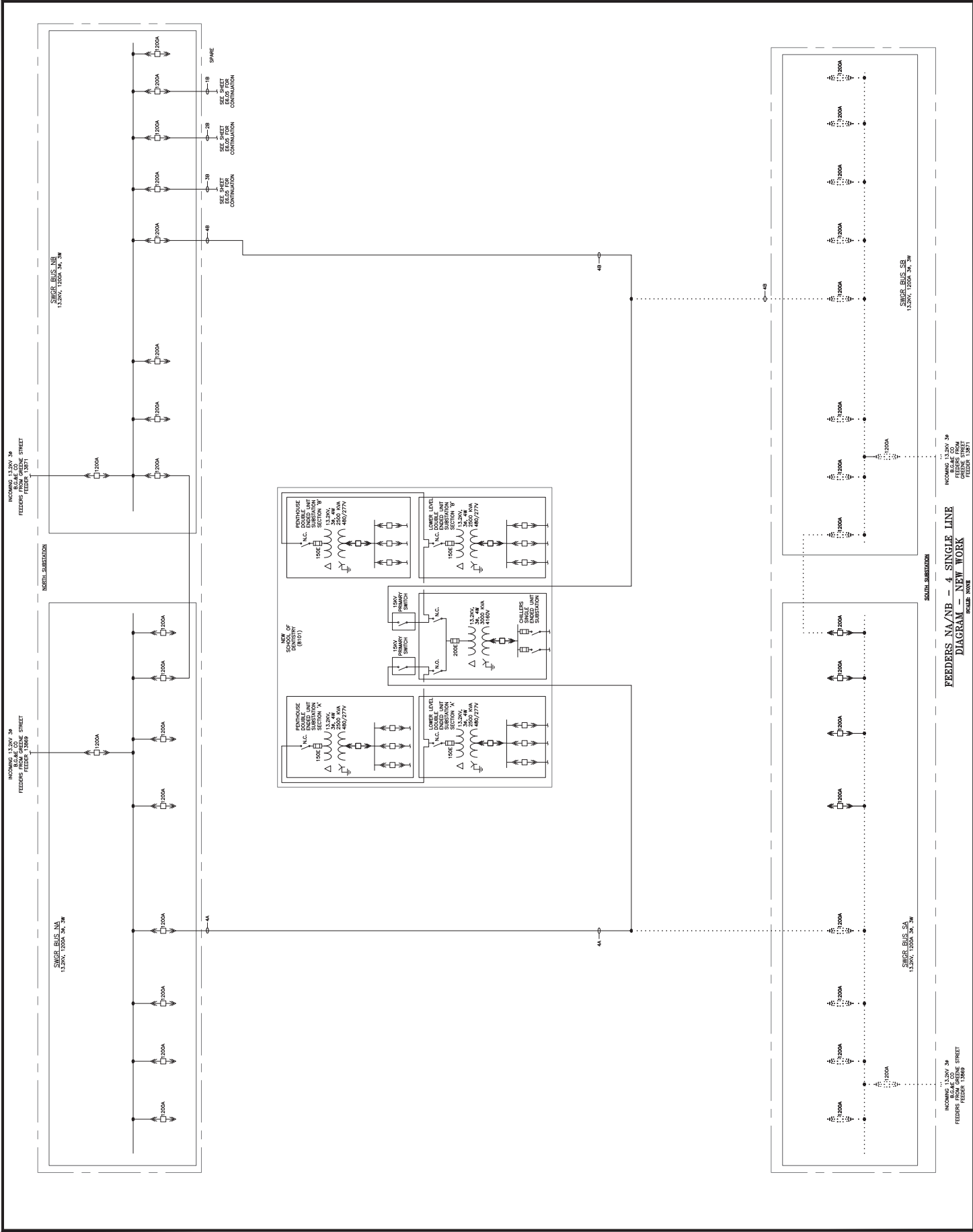
UMB BUILDING NO. : VARIOUS
UMB Project NO. : 17-317
A/E PROJECT NO. : 117051.A0
CAD FILE NO. :
DATE : 08/19/2023

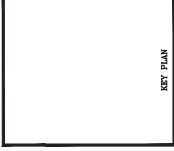
SHEET TITLE :

FEEDERS
NANB - 4
SINGLE LINE
DIAGRAM -
NEW WORK

[illegible]

SHEET NO.





PROJECT TITLE :	CAMPUS
	ELECTRICAL
	DISTRIBUTION
	UPGRADES -
	PHASE 4
	100% CD SUBMISSION
UMB BUILDING NO. :	VARIOUS
UMB Project NO. :	17-317
A/H PROJECT NO. :	117001.A0
CAD FILE NO. :	
DATE :	06/19/2023

SHEET TITLE :
MV RACEWAY
AND
CONDUCTOR
SCHEDULE

[illegible]

SHEET NO. E701

Ckt. No.	FROM:	TO:	13.2KV RACEWAY AND CONDUCTOR SCHEDULE					CABLE TYPE	NOTES:
			CONDUIT QUANTITY	CONDUIT QUANTITY	PHASE CONDUCTOR SIZE	SIZE OF EQUIP. CONDUCTOR			
			PHASE	SIZE	RS	CONDUCTOR	SIZE		
	SWGR NA AND SWGR SA								
3A	SWGR NA AND SWGR SA	FEDDER 3A	1	5"	3	359 KCMIL	40 AWG	MA-105, 132V EPR INSULATED, CU	
4A	SWGR NA AND SWGR SA	FEDDER 4A	1	5"	3	359 KCMIL	40 AWG	MA-105, 132V EPR INSULATED, CU	
5A	SWGR NA AND SWGR SA	FEDDER 5A	1	5"	3	359 KCMIL	40 AWG	MA-105, 132V EPR INSULATED, CU	
	SWGR NB AND SWGR SB								
3B	SWGR NB AND SWGR SB	FEDDER 3B	1	5"	3	359 KCMIL	40 AWG	MA-105, 132V EPR INSULATED, CU	
4B	SWGR NB AND SWGR SB	FEDDER 4B	1	5"	3	359 KCMIL	40 AWG	MA-105, 132V EPR INSULATED, CU	
5B	SWGR NB AND SWGR SB	FEDDER 5B	1	5"	3	359 KCMIL	40 AWG	MA-105, 132V EPR INSULATED, CU	

