



ADMINISTRATION & FINANCE
UNIVERSITY OF MARYLAND
100 UNIVERSITY DRIVE
ANNAPOLIS, MARYLAND 21403
PHONE: (410) 326-7000
FAX: (410) 326-7001

KEY PLAN

A/E CONSULTANTS

RMF ENGINEERING, INC.
5520 RESEARCH PARK DRIVE, SUITE 200
P.O. BOX 10000
ANNAPOLIS, MARYLAND 21403
PHONE: (410) 326-7000
FAX: (410) 326-7001



PROFESSIONAL CERTIFICATION, UNDER THE
ELECTRICIAN'S ACT OF 1962, AS AMENDED
BY THE BOARD OF ELECTRICAL ENGINEERS
AND ELECTRICIANS OF THE STATE OF MARYLAND
UNDER THE CARE OF THE STATE OF MARYLAND
ELECTRICIAN'S BOARD
DATE: 06/19/2025

REGISTRATION/STAMP



PROJECT TITLE :
CAMPUS
ELECTRICAL
DISTRIBUTION
UPGRADES -
PHASE 4

100% CD SUBMISSION
UMB BUILDING NO. VANDORIS
UMB Project No. : 17-207
A/E PROJECT NO. : UMB-010
CAD FILE NO. :
DATE : 06/19/2025

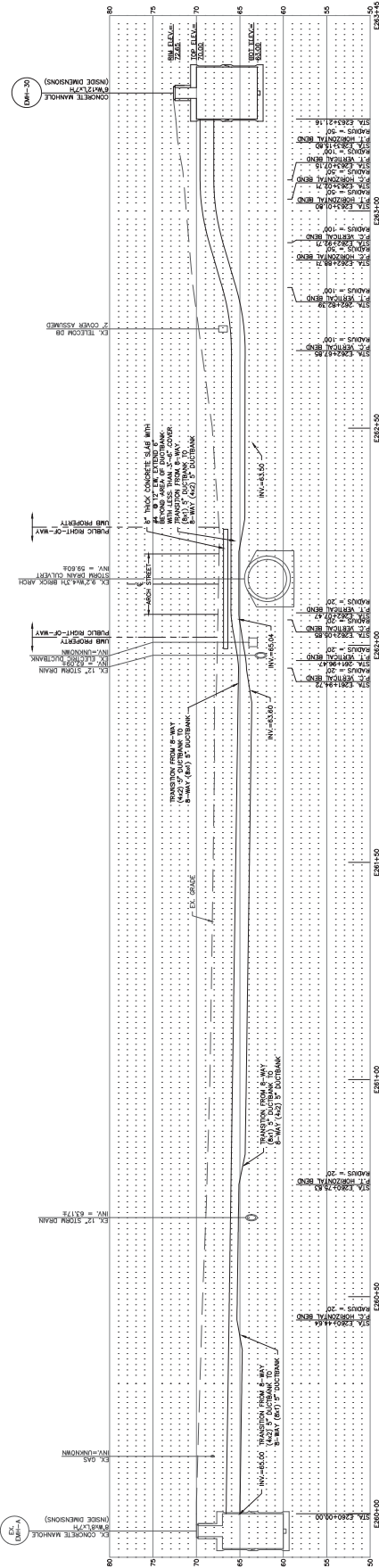
SHEET TITLE :
ELECTRIC
DUCTBANK
PROFILES

REVISIONS

NO.	DATE	ITEM

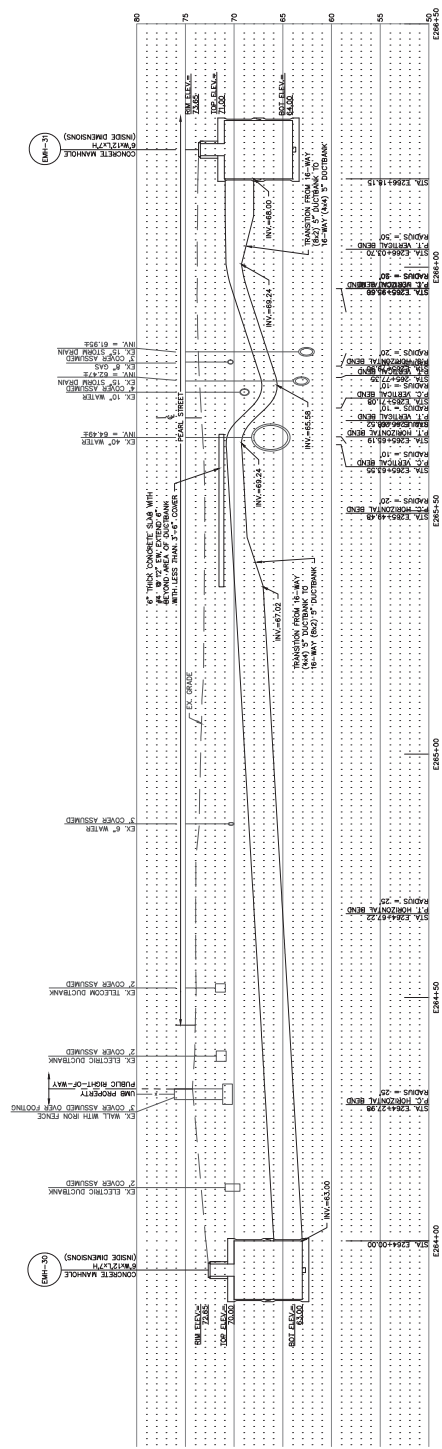
STREET NO.
CD3.07

PROFILE NUMBER
(DUCTBANK ALIGNMENT)
CORRESPONDING
CD2 SERIES
PLAN DRAWING
CD3 SERIES PROFILE
DRAWING



NOTES:
1. SEE DRAWING CD2.01 FOR ELECTRICAL DISTRIBUTION SITE PLAN.
2. PROFILE IS BASED ON CENTERLINE OF 8-WAY (4x2) 5\"/>

E-81 8-WAY (4x2) 5\"/>



NOTES:
1. SEE DRAWINGS CD2.01 AND CD2.02 FOR ELECTRICAL DISTRIBUTION SITE PLAN.
2. PROFILE IS BASED ON CENTERLINE OF 16-WAY (4x4) 5\"/>

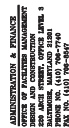
E-82 16-WAY (4x4) 5\"/>



MATCHLINE - SEE THIS DRAWING FOR CONTINUATION

CD2.02-
CD2.03
CD3.06

CD2.02-
CD2.03
CD3.06



A/E CONSULTANTS

RMF ENGINEERING, INC.
5520 RESEARCH PARK DR, 3RD FLR
BALTIMORE, MD 21228
P-410 576-0505, F-410 385-0377



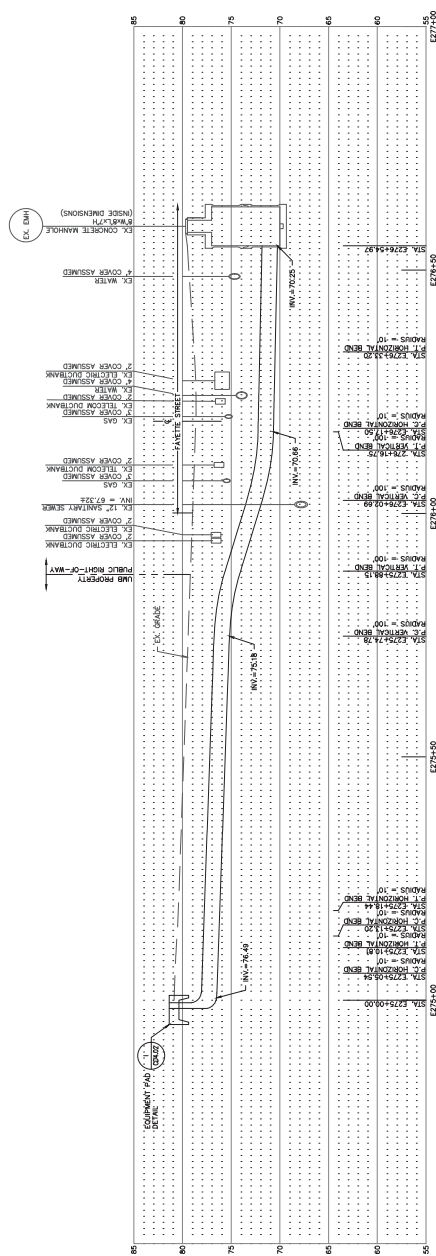
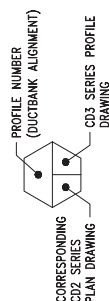
PROJECT TITLE :
CAMPUS
ELECTRICAL
DISTRIBUTION
UPGRADES -
PHASE 4

100% CD SUBMISSION
UMB BUILDING NO. : VARIOUS
UMB Project NO. : 17-317
A/E PROJECT NO. : 117061.A0
CAD FILE NO. :
DATE : 08/19/2023

ST TITLE :
ELECTRIC
DUCTBANK
PROFILES

[illegible]

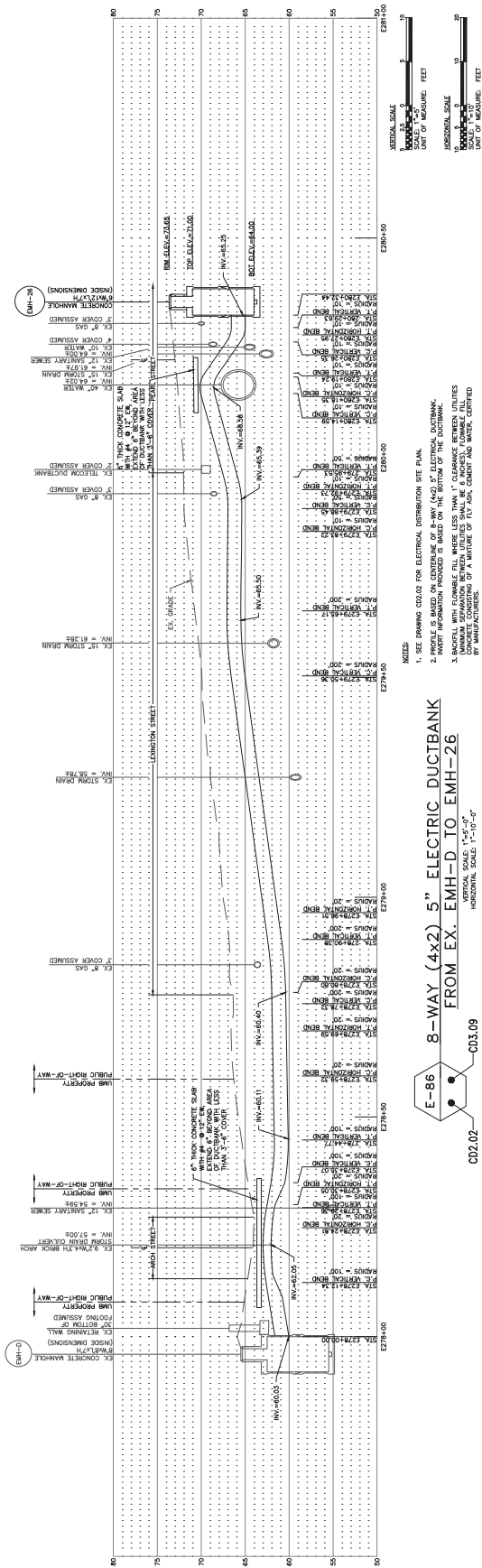
SHEET NO. CD3.09



NOTES:

1. SEE DRAWING CD2.04 FOR ELECTRICAL DISTRIBUTION SITE PLAN.
2. PROFILE IS BASED ON CENTERLINE OF 4-WAY (2x2) 5" ELECTRICAL DUCTBANK. INSERT INFORMATION PROVIDED IS BASED ON THE BOTTOM OF THE DUCTBANK.
3. SHOULD WITH FLOWABLE FILL WHERE LESS THAN 1" CLEARANCE BETWEEN UTILITIES (MINIMUM SEPARATION BETWEEN UTILITIES SHALL BE 6 INCHES). FLOWABLE FILL CONSISTING OF A MIXTURE OF FLY ASH, GOMENT AND WATER, CERTIFIED BY MANUFACTURERS.

E-85 4-WAY (2x2) 5" ELECTRIC DUCTBANK
FROM PAD MOUNT SWITCH TO EX. EMH
VERTICAL SCALE: 1"=5'-0"
HORIZONTAL SCALE: 1"=10'-0"
C03.09



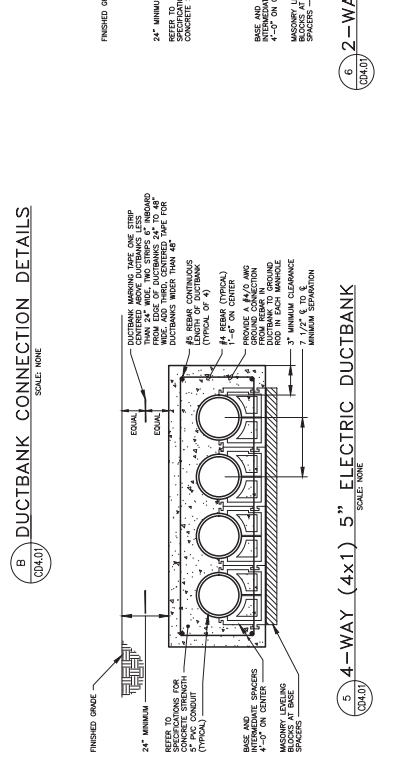
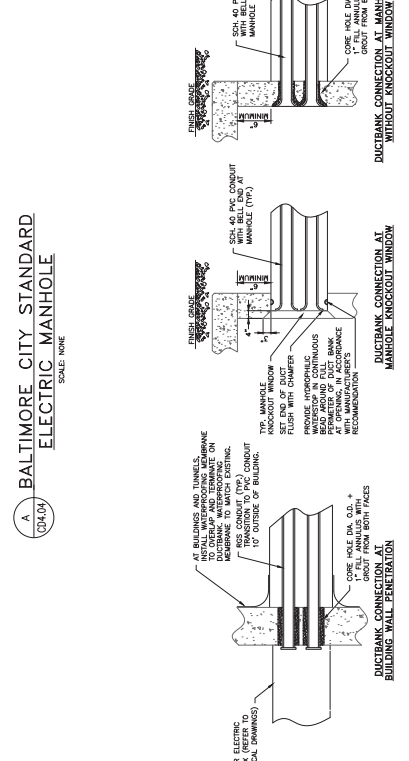
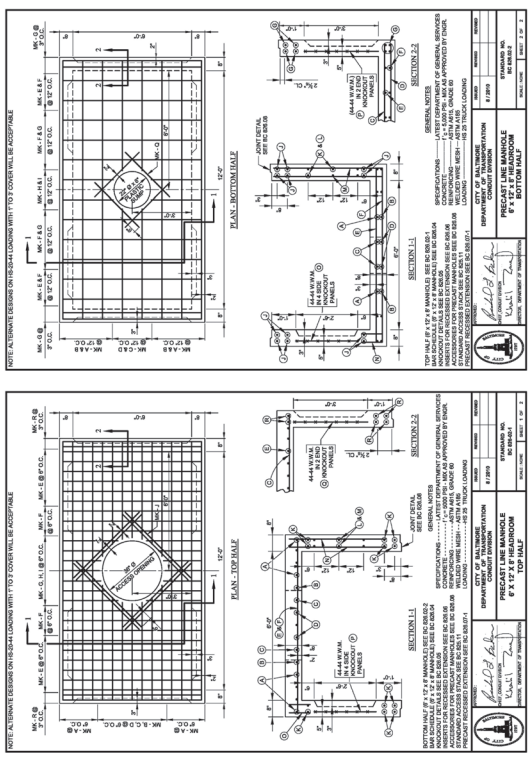
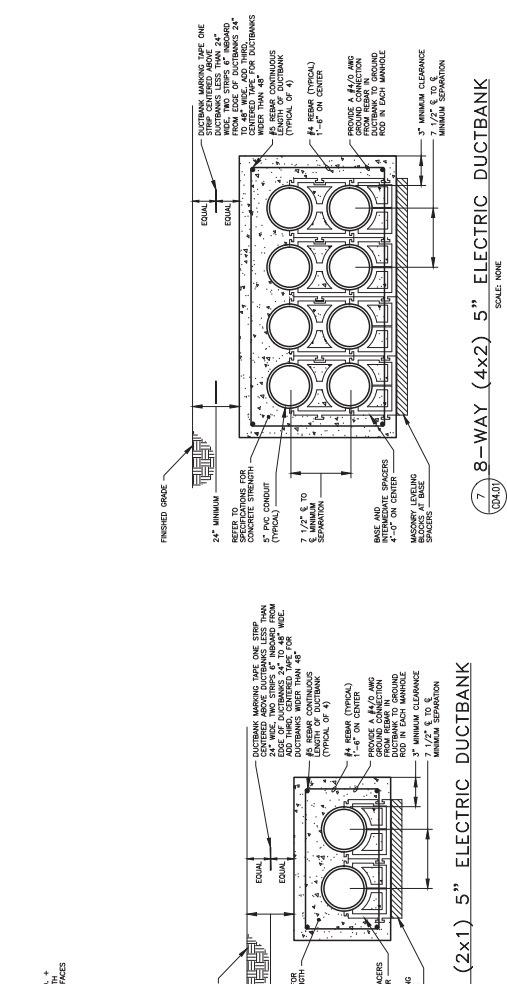
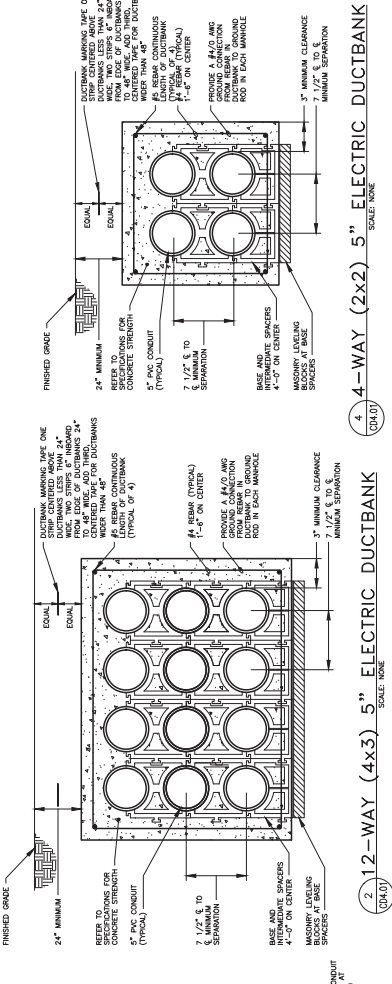
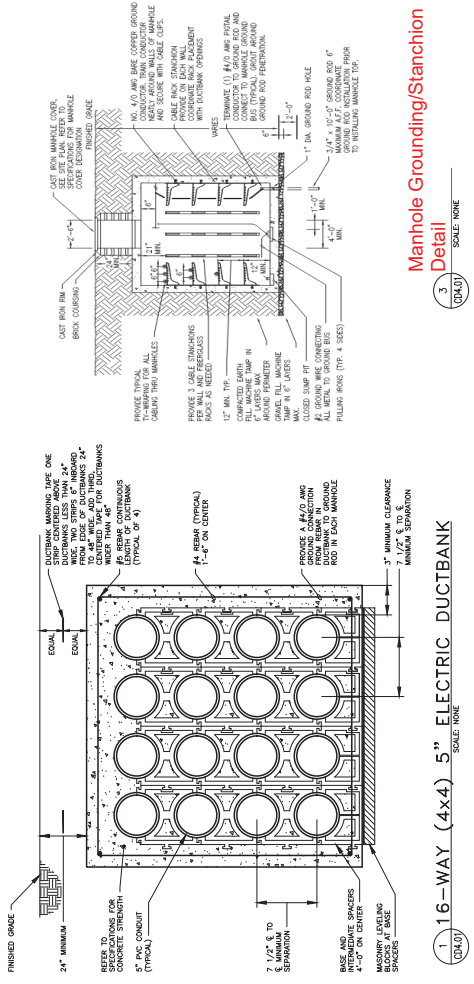
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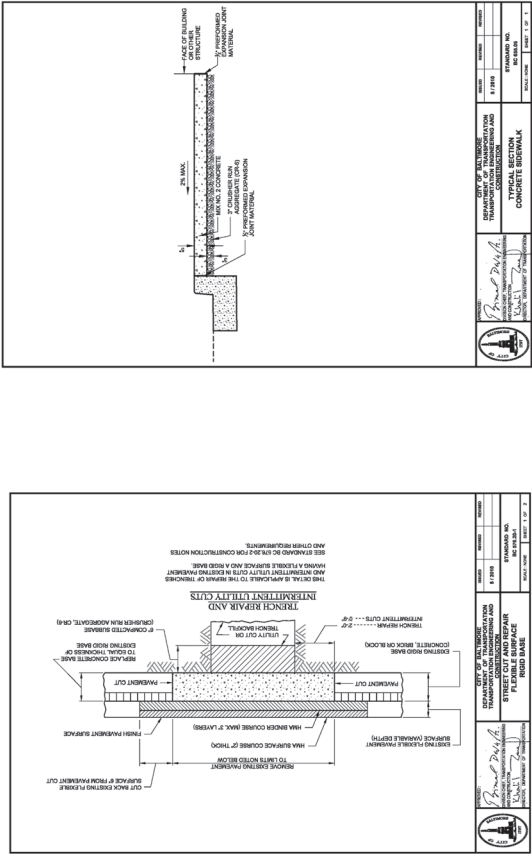
1. SEE DRAWING CD2.02 FOR ELECTRICAL DISTRIBUTION SITE PLAN.

2. PROFILE IS BASED ON CENTERLINE OF 8-WAY (4x2) 5" ELECTRICAL DUCTBANK. INSERT INFORMATION PROVIDED IS BASED ON THE BOTTOM OF THE DUCTBANK.

3. BACKFILL WITH FLOWABLE FILL WHERE LESS THAN 1" CLEARANCE BETWEEN UTILITIES (UNIFORM SEPARATION BETWEEN UTILITIES SHALL BE 6 INCHES). FLOWABLE FILL SHALL BE A MIXING OF Mixture of FILL ASP, GEMENT AND WATER, CERTIFIED BY MANUFACTURER.

E-86 8-WAY (4x2) 5" ELECTRIC DUCTBANK
FROM EX. EMH-D TO EMH-26
VERTICAL SCALE: 1"=5'-0"
HORIZONTAL SCALE: 1"=10'-0"
CD3.09

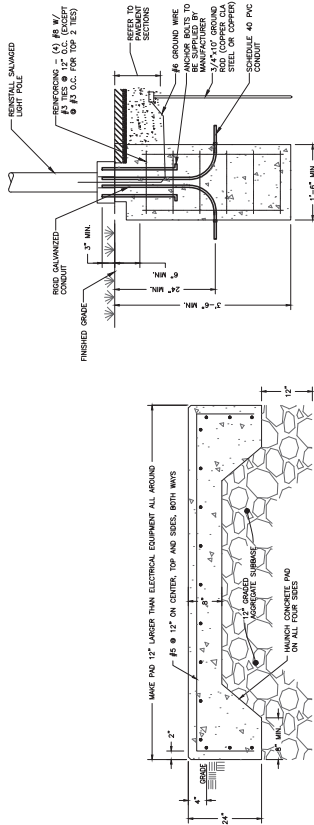




C CONCRETE SIDEWALK
SCALE: NONE

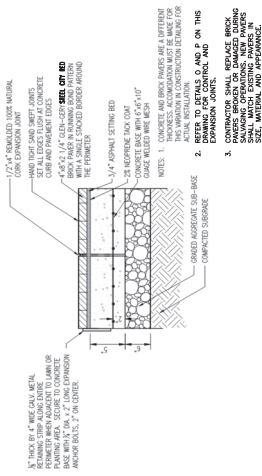
C ASPHALT PAVEMENT
SCALE: NONE

H NOT USED
SCALE: NONE

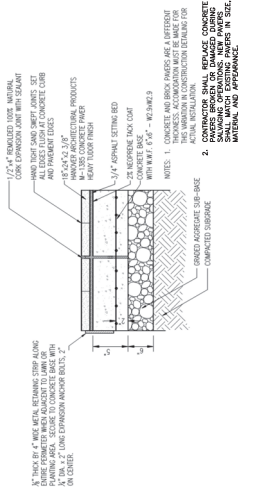


J EQUIPMENT PAD DETAIL
SCALE: NONE

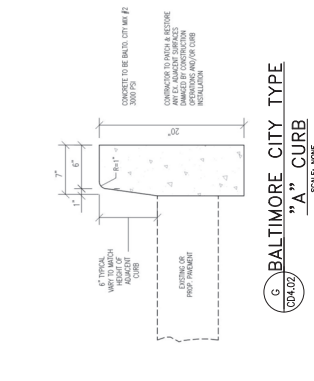
K LIGHT POLE BASE DETAIL
SCALE: NONE



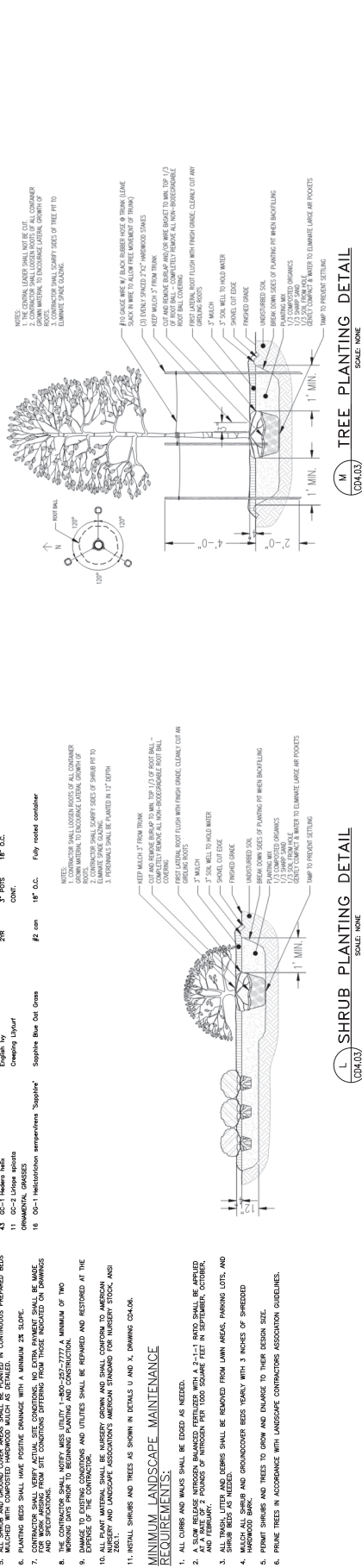
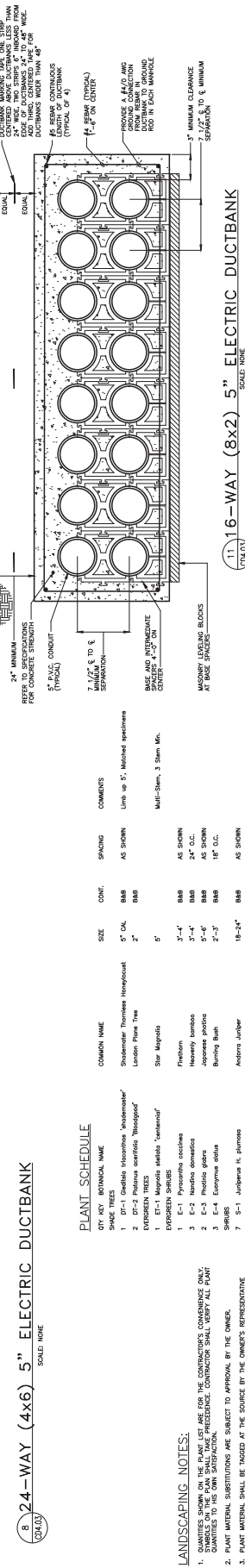
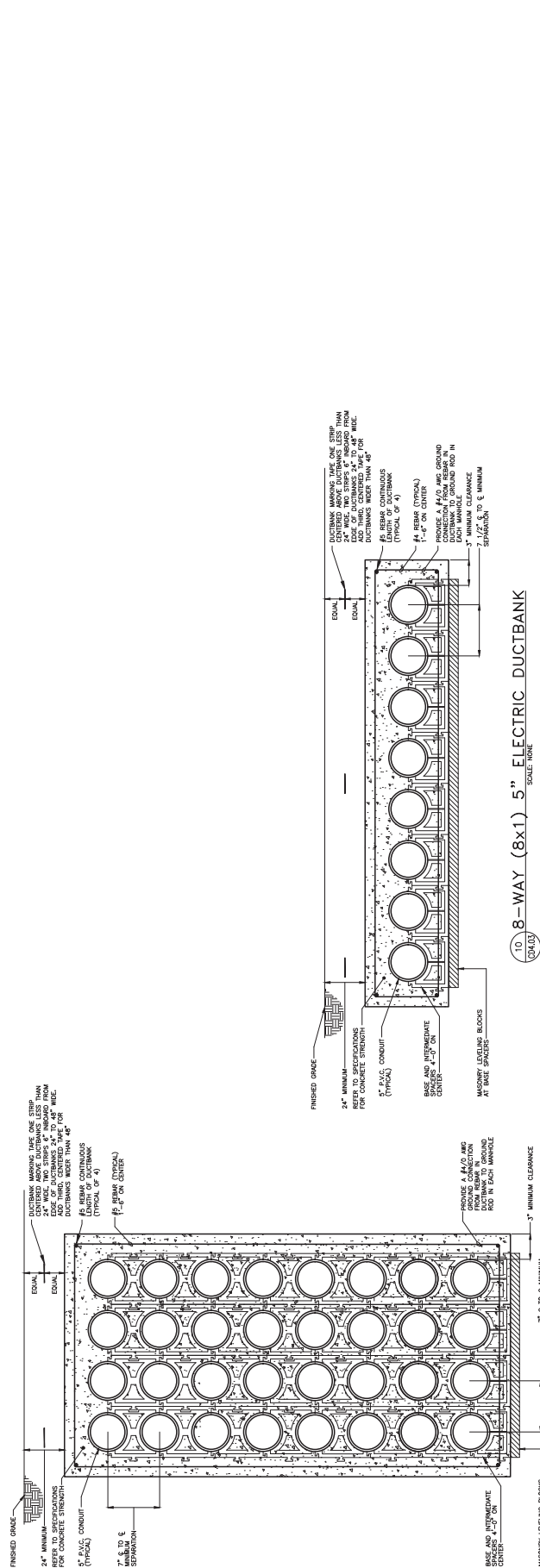
D BRICK PAVEMENT SIDEWALK
SCALE: NONE

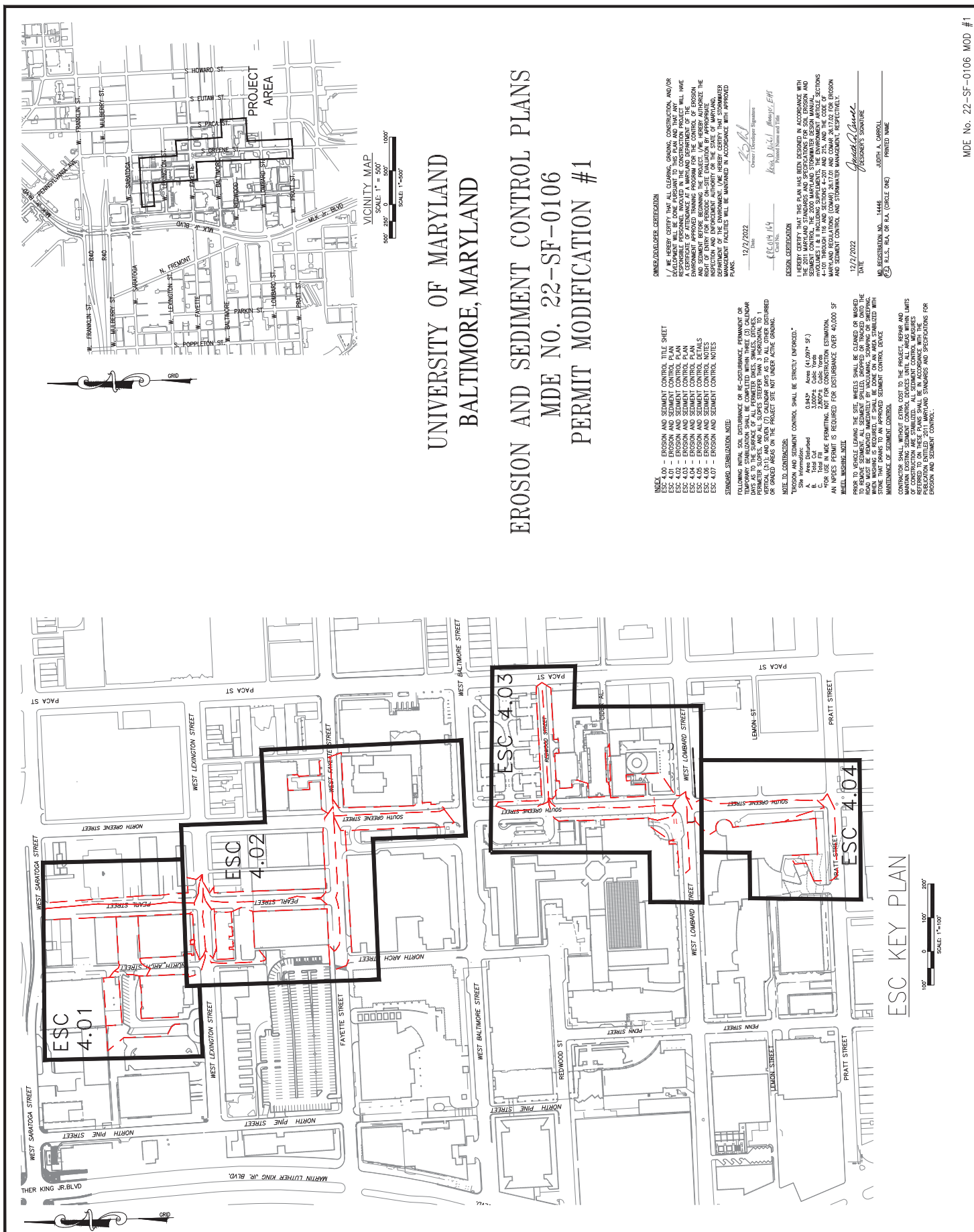


E CONCRETE PAVER SIDEWALK
SCALE: NONE



G BALTIMORE CITY TYPE "A" CURB
SCALE: NONE

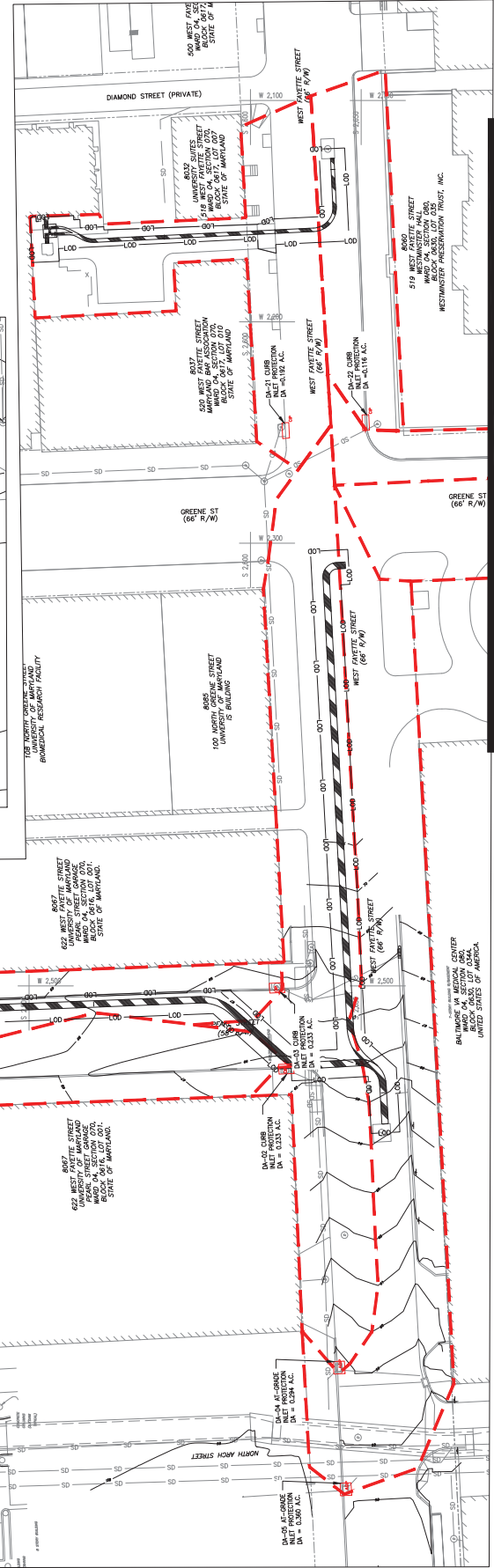
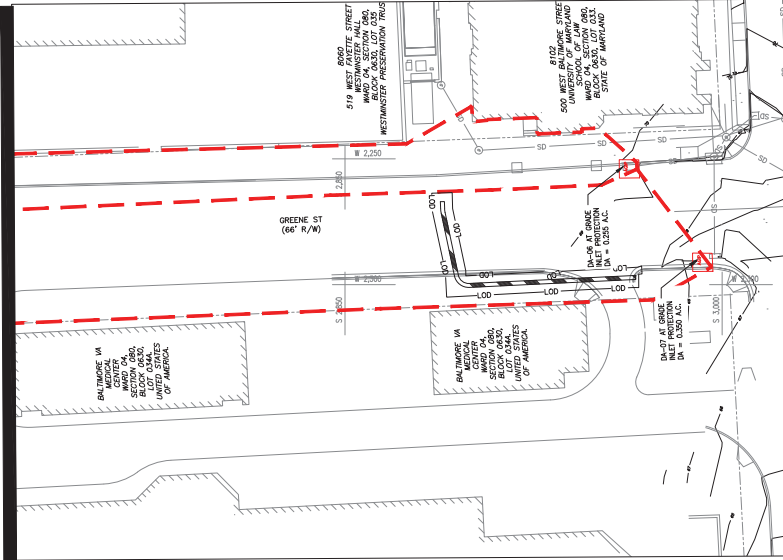




10

SEE DRAWING THIS SHEET FOR CONTINUATION

SEE DRAWING ESC 4.01 FOR CONTINUATION



MATCHLINE SEE DRAWING THIS SHEET FOR CONTINUATION



ADMINISTRATION & FINANCE
OFFICE OF FACILITIES MANAGEMENT
DESIGN AND CONSTRUCTION
220 ARCH STREET, OFFICE LEVEL 3
BALTIMORE, MARYLAND 21201
PHONE NO. (410) 706-7740
FAX NO. (410) 706-8547

A/E CONSULTANTS

rmf

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



REGISTRATION/STAMP



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. 14446
EXPIRATION DATE: 05/25/2023

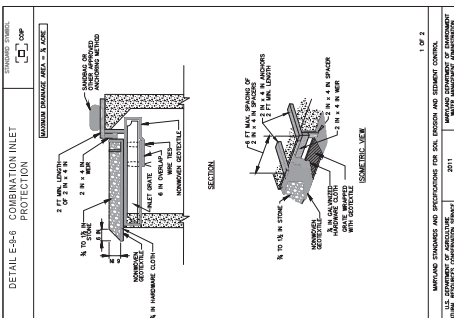
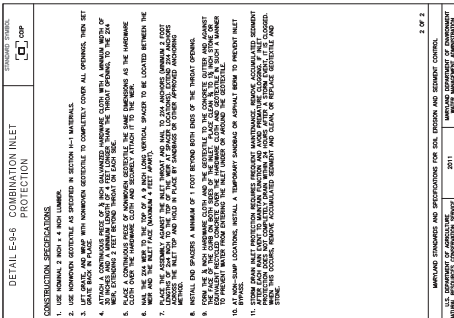
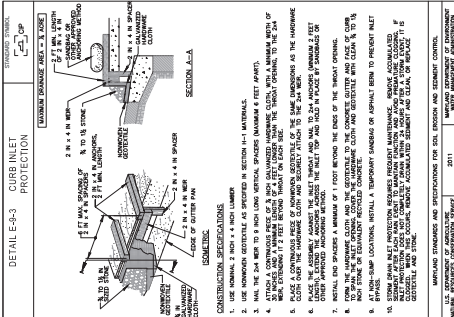
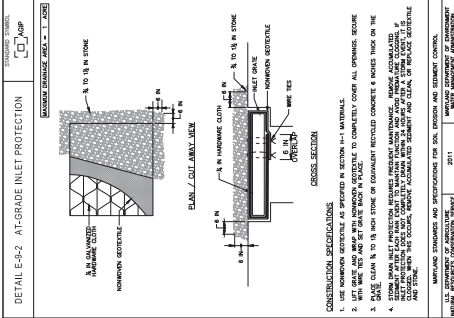
PROJECT TITLE :
CAMPUS
ELECTRICAL
DISTRIBUTION
UPGRADES -
PHASE 4

UMB BUILDING NO. : VARIOUS
UMB Project NO. : 17-317
A/E PROJECT NO. : 117081.A0
CAD FILE NO. :
DATE : 12/2/2022

SHEET TITLE :
EROSION AND
SEDIMENT
CONTROL PLAN

[illegible]

SHEET NO. ESC4.05

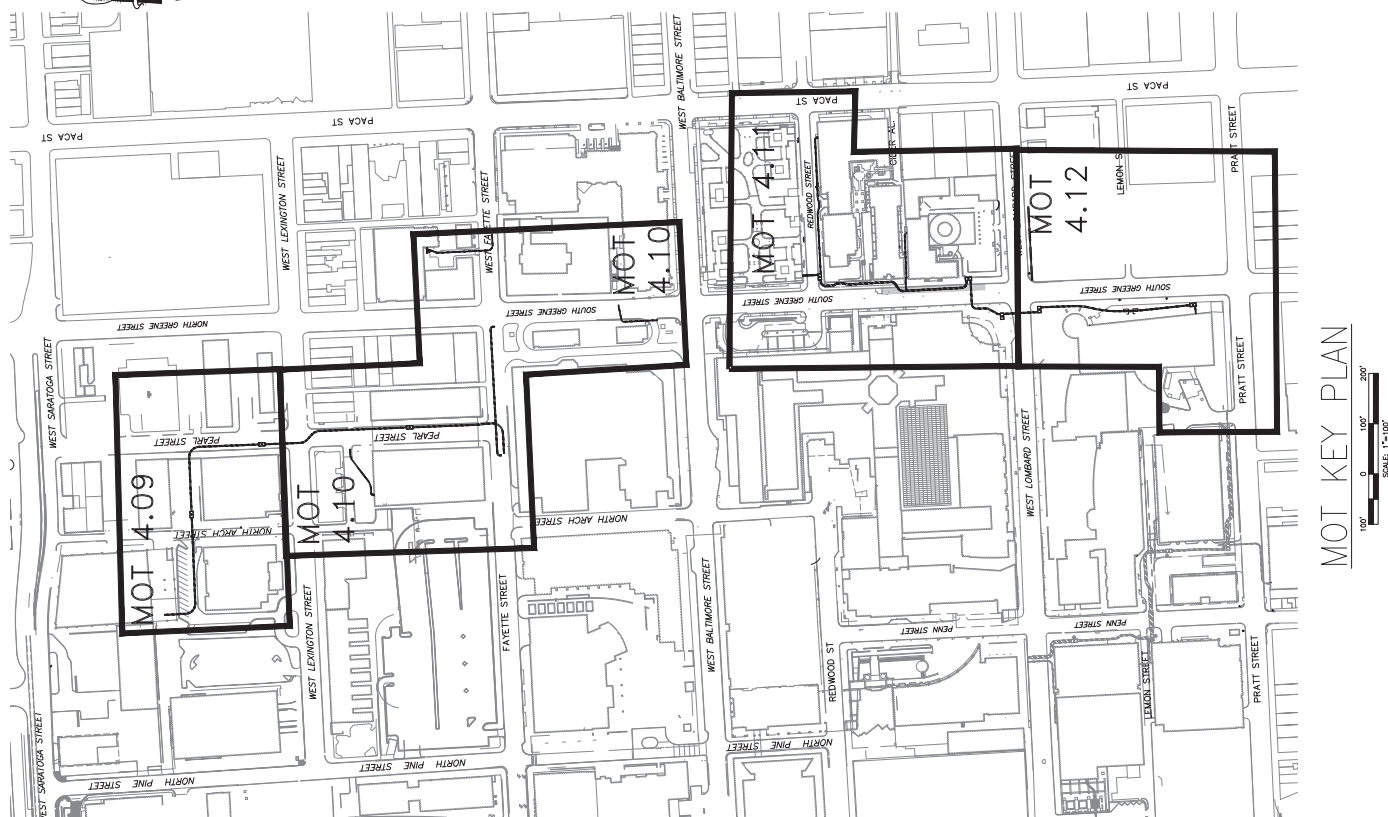
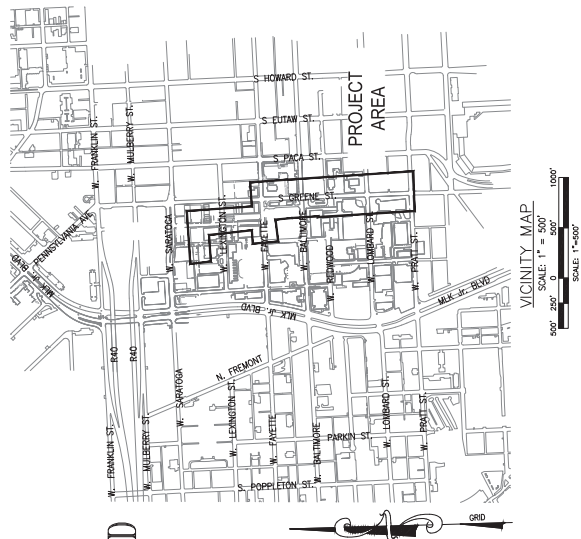


SEQUENCE OF CONSTRUCTION

- [illegible]

[illegible]

UNIVERSITY OF MARYLAND
BALTIMORE, MARYLAND



- INDEX
- * NOT 4.06 - MAINTENANCE OF TRAFFIC TITLE
* NOT 4.09 - MAINTENANCE OF TRAFFIC PLAN
* NOT 4.10 - MAINTENANCE OF TRAFFIC PLAN
* NOT 4.11 - MAINTENANCE OF TRAFFIC PLAN
* NOT 4.12 - MAINTENANCE OF TRAFFIC PLAN
- MAINTENANCE OF TRAFFIC NOTES
- * THE CONTRACTOR IS REQUIRED TO REMBURSE THE CITY FOR LOSS REVENUE INCURRED DURING OCCUPATION OF RETIRED STREET PARKING. INSTRUCTION SHALL HAVE TEMPORARY CROSSWALKS INSTALLED FOR PEDESTRIAN TRAFFIC.
* CONTRACTOR SHALL MAINTAIN ALL PEDESTRIAN AND VEHICULAR EGRESS POINTS AS NOTED ON THE PLANS.
* CONTRACTOR SHALL MAINTAIN A MINIMUM OF ONE LANE OF VEHICULAR TRAVEL.
* FLAGGERS SHALL BE USED WHERE 2-1/2 LANE TRAFFIC IS REDUCED TO A SINGLE LANE.

BALTIMORE CITY TRAFFIC NOTES

- [illegible]



ADMINISTRATION & FINANCE
OFFICE OF FACILITIES MANAGEMENT
DESIGN AND CONSTRUCTION
320 ARCH STREET, OFFICE LEVEL 3
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PHONE NO. (410) 706-7740
FAX NO. (410) 706-8547

A/E CONSULTANTS

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RMF ENGINEERING, INC.
5520 RESEARCH PARK DR, 3RD FLR
BALTIMORE, MD 21228
P-410 576-0505 E-410 385-0327



REGISTRATION / STAMP

STATE OF MARYLAND
REGISTERED PROFESSIONAL ENGINEER
JUDITH A. CAMPBELL
12/02/2022

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,

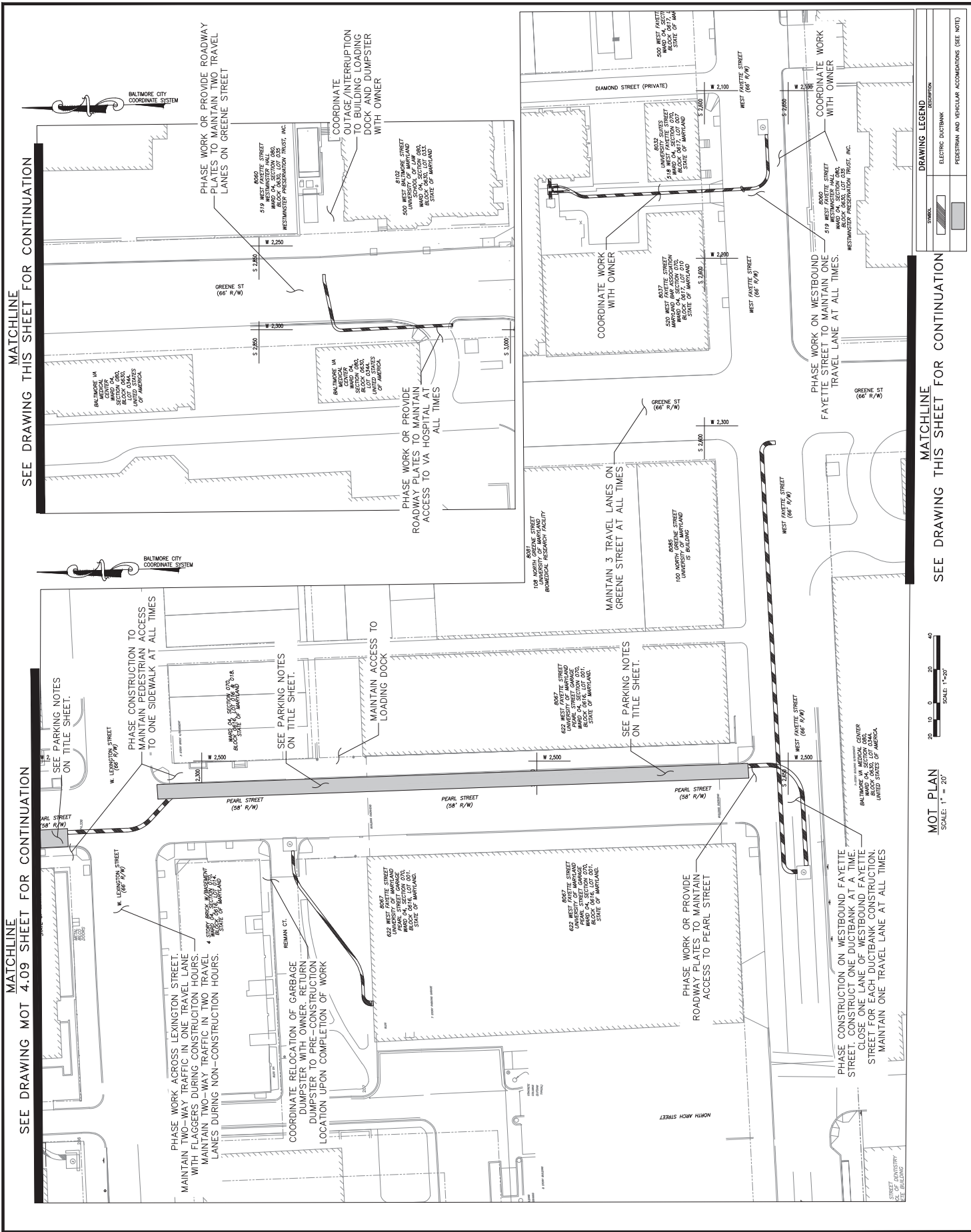
PROJECT TITLE :
CAMPUS
ELECTRICAL
DISTRIBUTION
UPGRADES -
PHASE 4

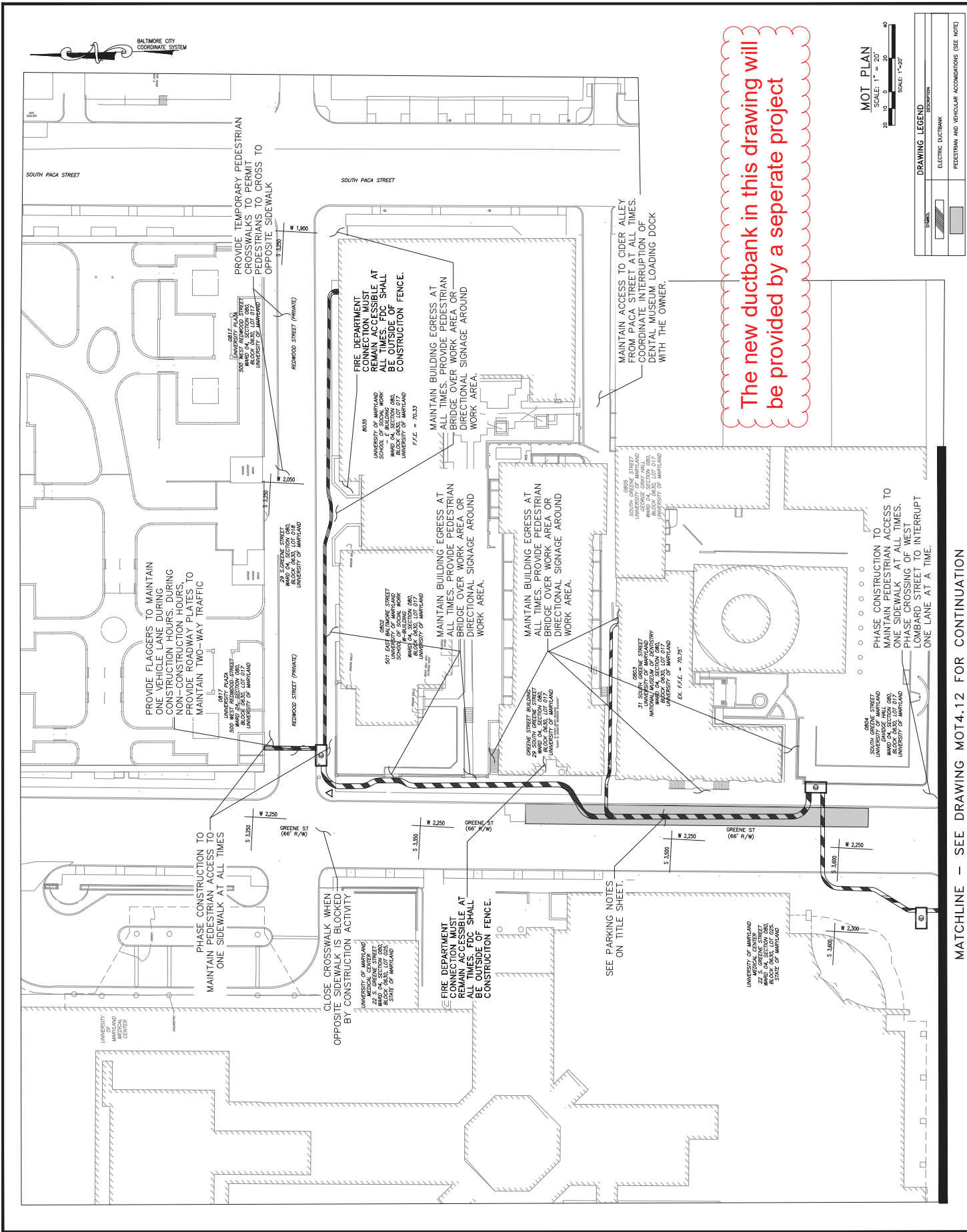
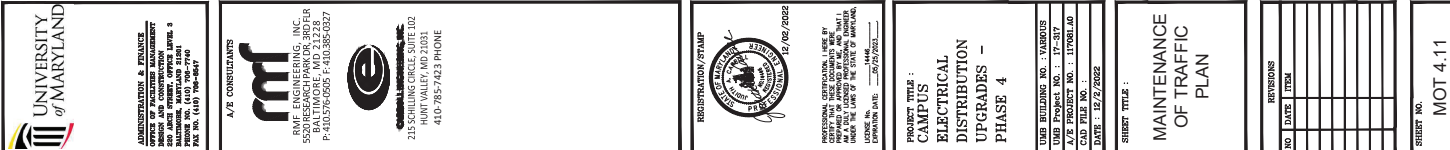
UMB BUILDING NO. : VARIOUS
UMB Project NO. : 17--317
A/E PROJECT NO. : 117081.A0
CAD FILE NO. :
DATE : 12/29/2003

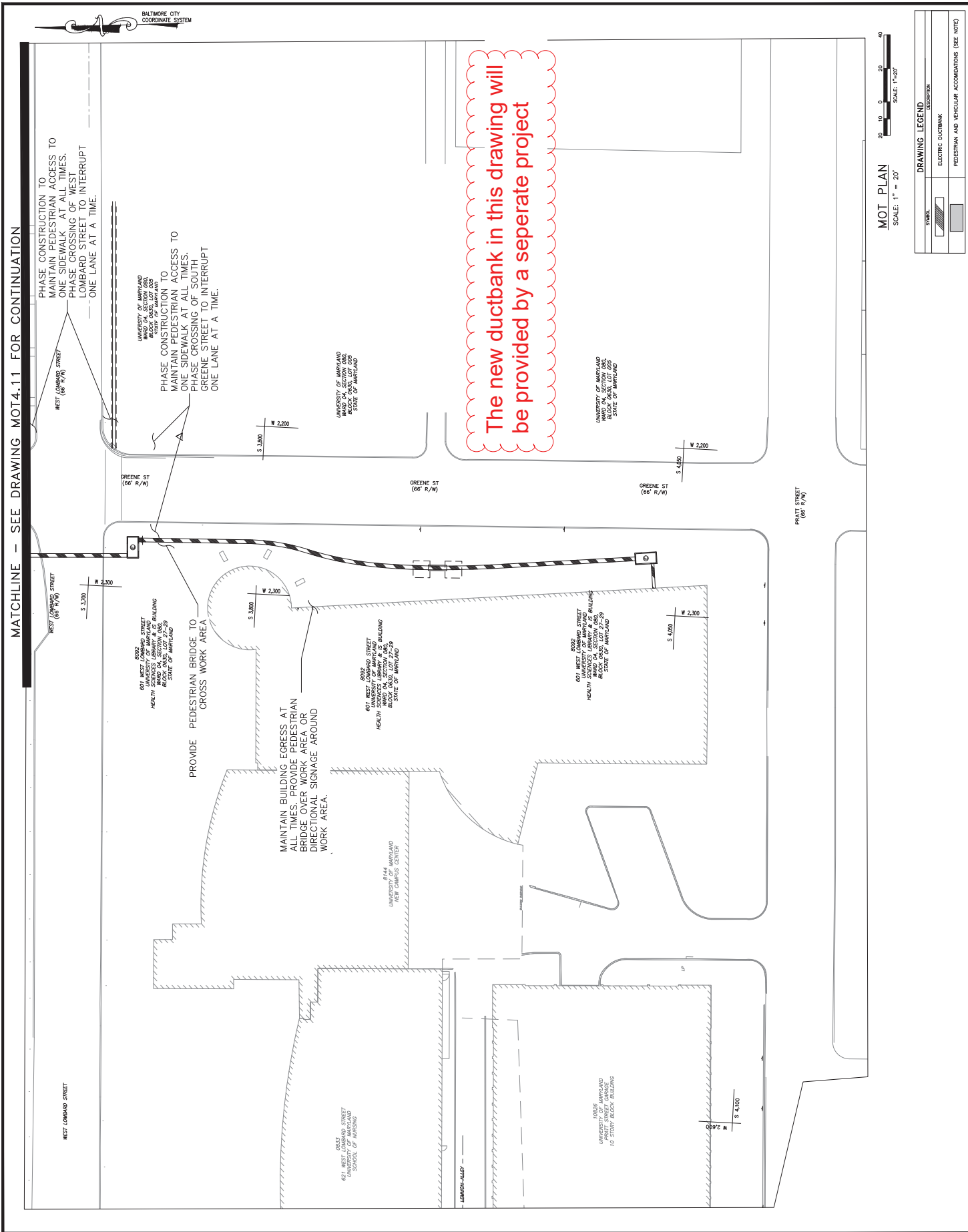
SHEET TITLE :
MAINTENANCE
OF TRAFFIC
PLAN

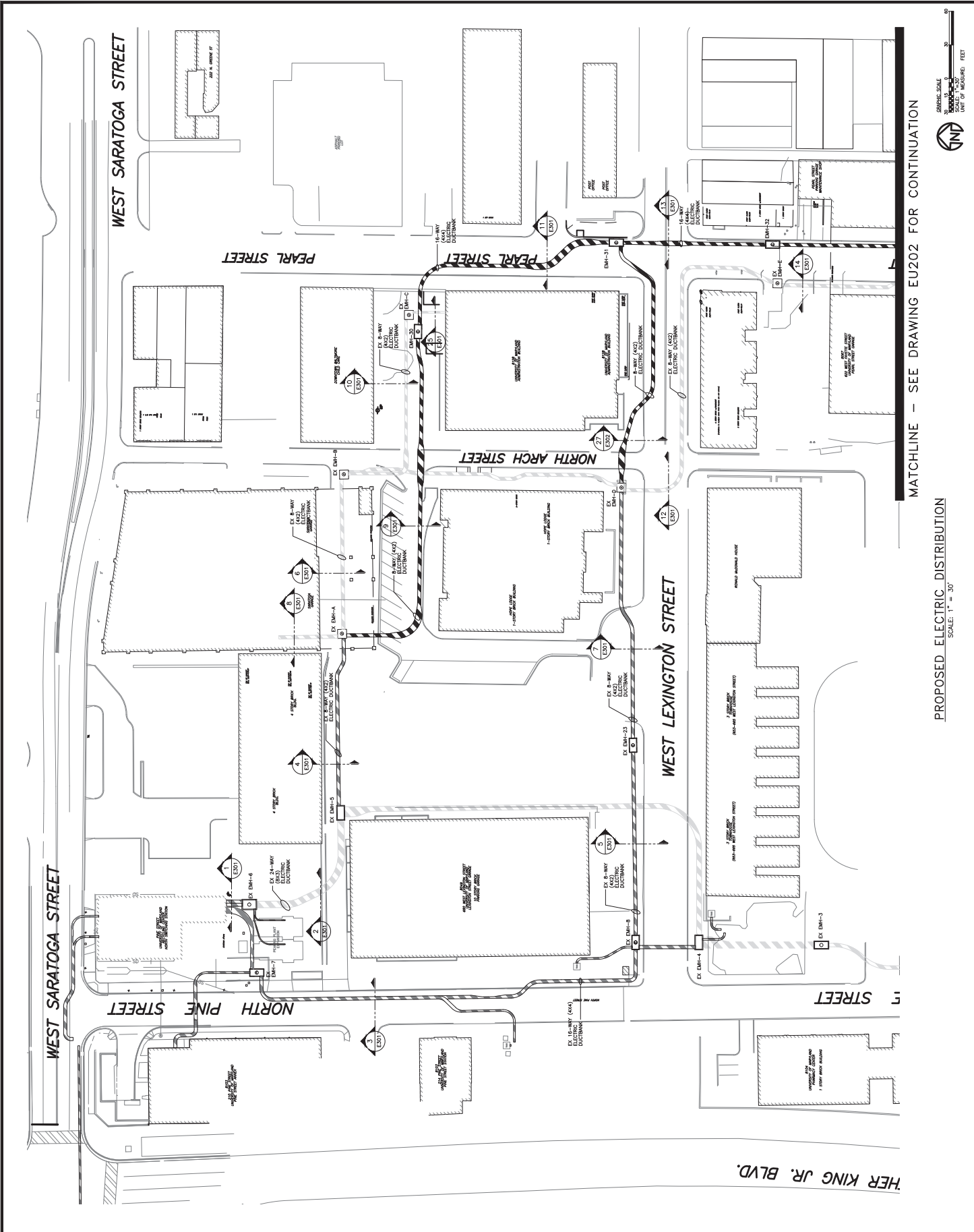
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SHEET NO. MOT-4.10











UNIVERSITY
of MARYLAND

ADMINISTRATION & FINANCE
OFFICE OF FACILITIES MANAGEMENT
520 JACOB STREET, SUITE 300
ANNAPOLIS, MD 21403-7100
PHONE NO. (410) 706-7100
FAX NO. (410) 706-8647

KEY PLAN

A/E CONSULTANTS

rmf
RMF ENGINEERING, INC.
520 RESEARCH PARK DRIVE, SUITE 300
ANNAPOLIS, MD 21403-7100
P-410.576.0505 F-410.358.0327

CONSULTING ENGINEERS, INC.

PROFESSIONAL CERTIFICATION: I AM AN EIT
CERTIFIED IN THE STATE OF MARYLAND
I AM A MEMBER OF THE NATIONAL ELECTRICAL
INSTITUTE (NECA) AND THE INTERNATIONAL
BROTHERHOOD OF ELECTRICAL WORKERS (IBEW)
I AM A MEMBER OF THE STATE OF MARYLAND
ELECTRICAL BOARD
LICENSE NO. 101154
EXPIRATION DATE: 12/31/2025

REGISTRATION STAMP



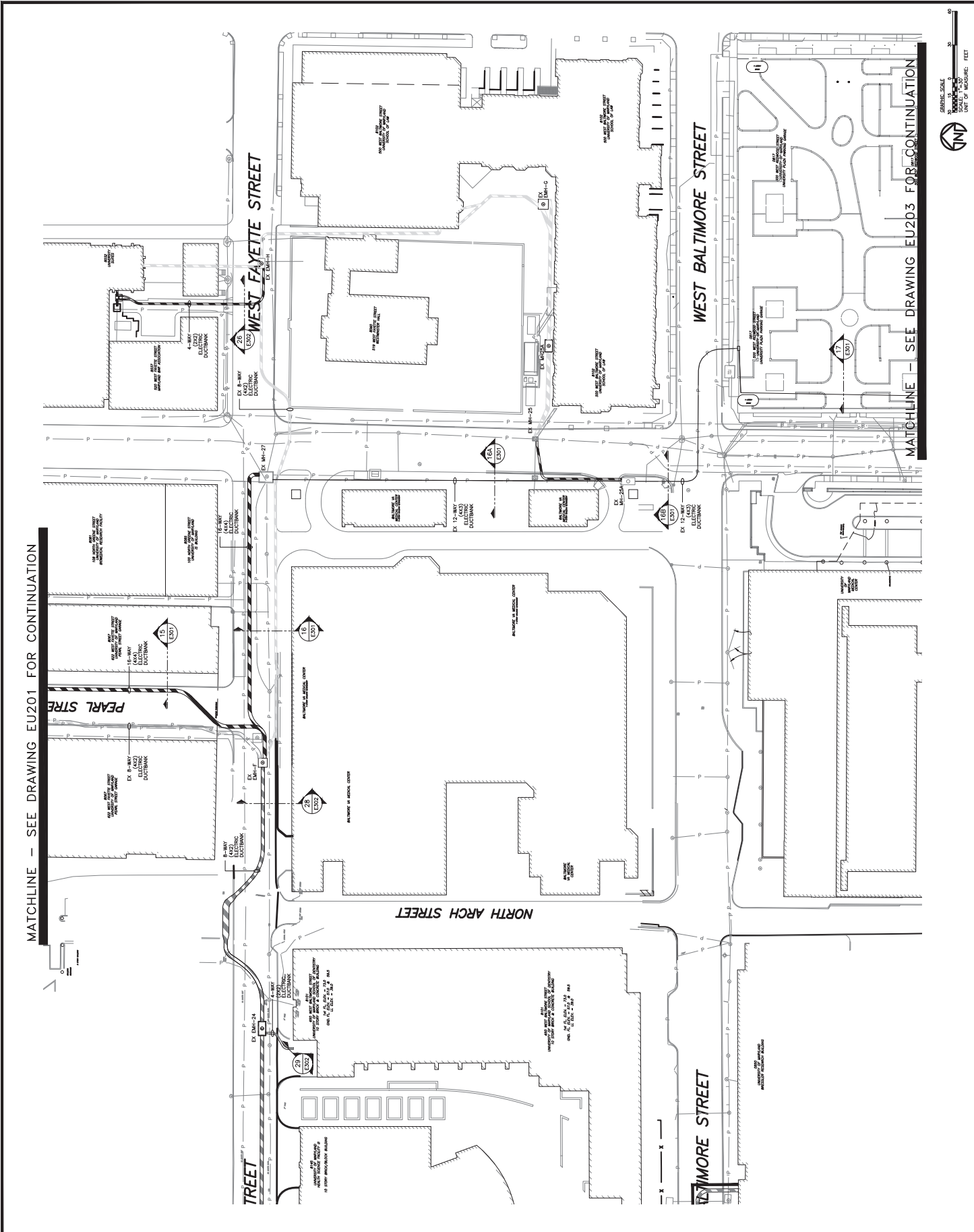
PROJECT TITLE :
CAMPUS
ELECTRICAL
DISTRIBUTION
UPGRADES -
PHASE 4
100% CD SUBMISSION

UMB BUILDING NO. : YARBORG
UMB Project NO. : 17-317
A/E PROJECT NO. : 17YB01-AD
CD FILE NO. :
DATE : 07/19/2025

SHEET TITLE :
PROPOSED
ELECTRIC
DISTRIBUTION

NO.	DATE	BY

SHEET NO.
EU202





UNIVERSITY
of MARYLAND

ADMINISTRATION & FINANCE
OFFICE OF FACILITIES MANAGEMENT
520 RESEARCH PARK DRIVE, 3RD FLOOR
ANNAPOLIS, MARYLAND 21403-5001
PHONE NO. (410) 767-7140
FAX NO. (410) 767-6847

KEY PLAN



A/E CONSULTANTS



RMF ENGINEERING, INC.
520 RESEARCH PARK DRIVE, 3RD FLOOR
ANNAPOLIS, MARYLAND 21403-5001
P: 410.576.0505 F: 410.354.0327

PROFESSIONAL CERTIFICATION, LICENSE BY
COMPLETION OF THIS DOCUMENT AND THE
SEAL OF THE ENGINEER, THE STATE OF MARYLAND
MAY BE USED FOR THE STATE OF MARYLAND
LICENSE NO. 1000000000000000
EXPIRATION DATE: 12/31/2025



PROJECT TITLE :

CAMPUS
ELECTRICAL
DISTRIBUTION
UPGRADES -
PHASE 4
100% CD SUBMISSION

UMB BUILDING NO. : YAMBOUS
UMB PROJECT NO. : 17-317
A/E PROJECT NO. : 17Y01-AD
CD FILE NO. :
DATE : 09/10/2025

SHEET TITLE :

PROPOSED
ELECTRIC
DISTRIBUTION

REVISIONS	
NO.	DATE

FIGURE NO. EU203

