

HARBOR HALL COURTYARD IMPROVEMENTS

ISSUED FOR: 100% CONSTRUCTION DOCUMENTS

UMBC PROJECT No.: 23-126

MDE NO. 24-SF-0026

GENERAL NOTES:

- ALL PROPOSED GRADING AND EROSION CONTROL WORK TO BE CONSTRUCTED IN ACCORDANCE WITH THE MARYLAND DEPARTMENT OF THE ENVIRONMENT 2011 STANDARDS AND SPECIFICATIONS FOR SOIL EROSION AND SEDIMENT CONTROL.
- THE EXISTING CONDITIONS FOR THIS PROJECT HAVE BEEN FIELD SURVEYED BY A. MORTON THOMAS AND ASSOCIATES, MAY 2023.
- THE LOCATION OF ALL UTILITIES SHOWN HEREON IS BASED ON FIELD SURVEY DATA AND RECORD DRAWING INFORMATION. THE UTILITY INFORMATION SHOWN IS NOT NECESSARILY COMPLETE AND THE GENERAL LOCATIONS SHOWN ARE TO BE CONSIDERED APPROXIMATE. VERIFY THE LOCATION AND DEPTH OF ALL UTILITIES WELL IN ADVANCE OF CONDUCTING ANY OPERATIONS WHICH COULD DAMAGE OR INTERRUPT THESE FACILITIES IN AREAS WHERE THE PROPOSED CONSTRUCTION MAY CONFLICT WITH EXISTING UTILITIES. TAKE NECESSARY PRECAUTIONS TO AVOID DAMAGE TO EXISTING UTILITIES. IF AN UNDERGROUND UTILITY IS DAMAGED, IMMEDIATELY NOTIFY THE OWNER. ANY DAMAGE SUSTAINED TO UTILITIES ABOVE OR BELOW GROUND IS TO BE REPAIRED IMMEDIATELY AT CONTRACTOR'S EXPENSE.
- LOCATE "ALL PRIVATE" UNDERGROUND UTILITIES AND INFRASTRUCTURE INCLUDING BUT NOT LIMITED TO : PIPES, DRAINS, CABLE, ETC., IN ANY PROPOSED EXCAVATION AREA AND COORDINATE ANY DISRUPTIONS WITH THE UNIVERSITY PRIOR TO COMMENCEMENT OF CONSTRUCTION.
- VERIFY ALL DIMENSIONS AND CONDITIONS GIVEN ON THE DRAWINGS AND REPORT TO THE OWNER ANY ERROR OR INCONSISTENCY WITH THE ACTUAL CIRCUMSTANCES IN THE FIELD PRIOR TO COMMENCING WORK.
- TAKE NOTE THAT THE UTILITIES IN THIS AREA MAY HAVE PORTIONS OF SHEETING AND SHORING USED TO FACILITATE THEIR CONSTRUCTION ABANDONED AND LEFT IN PLACE, WHICH MAY INTERFERE WITH THE NEW WORK. NOTIFY THE OWNER IMMEDIATELY IF THIS SITUATION OCCURS.
- SCHEDULE ALL DEMOLITION ACTIVITIES AND REQUIRED UTILITY RELOCATION TO MINIMIZE SHUTDOWNS AND DISRUPTIONS TO THE UNIVERSITY OF MARYLAND BALTIMORE COUNTY CAMPUS. UNLESS OTHERWISE NOTED, ALL UTILITIES MUST REMAIN IN SERVICE THROUGHOUT THE DURATION OF THE PROJECT AND PROTECTED AND SUPPORTED AS REQUIRED. NOTIFY OWNER TWO WEEKS IN ADVANCE IF TEMPORARY SHUTDOWN/DISRUPTION OF UTILITIES IS REQUIRED.
- CONDUCT TEST PITS AS REQUIRED TO ESTABLISH THE CONDITION AND ELEVATION OF ALL UTILITY AND STRUCTURES PRIOR TO FABRICATING ANY PIECES OR ORDERING ANY MATERIALS FOR THE UTILITY SYSTEMS.
- BASED UPON THE RESULTS OF THE TEST PITS, SUBMIT SKETCHES TO THE ENGINEER SHOWING THE RECOMMENDATION REVISING THE DESIGN INVERT AND TOP ELEVATIONS AS REQUIRED TO AVOID ANY CONFLICTS WITH EXISTING UTILITY LINES AND OTHER FEATURES.
- THE OWNER IS TO BE NOTIFIED IMMEDIATELY OF ANY AND ALL UTILITY INFORMATION, OMISSIONS AND ADDITIONS FOUND ON SITE. DAMAGE TO EXISTING UTILITIES IS TO BE FIXED IMMEDIATELY.
- DEVELOP AND COORDINATE THE MAINTENANCE OF TRAFFIC AND ANY SIDEWALK AND ROAD CLOSURES WITH THE UNIVERSITY.

OWNER'S / DEVELOPER'S CERTIFICATION

I/WE HEREBY CERTIFY THAT ALL CLEARING, GRADING, CONSTRUCTION, AND/OR DEVELOPMENT WILL BE DONE PURSUANT TO THIS PLAN AND THAT ANY RESPONSIBLE PERSONNEL INVOLVED IN THE CONSTRUCTION PROJECT WILL HAVE A CERTIFICATE OF ATTENDANCE AT A MARYLAND DEPARTMENT OF THE ENVIRONMENT APPROVED TRAINING PROGRAM FOR THE CONTROL OR EROSION AND SEDIMENT BEFORE BEGINNING THE PROJECT. I/WE HEREBY AUTHORIZE THE RIGHT OF ENTRY FOR PERIODIC ON-SITE EVALUATION BY APPROPRIATE INSPECTION AND ENFORCEMENT AUTHORITY OR THE STATE OF MARYLAND, DEPARTMENT OF THE ENVIRONMENT.

01/22/2024

DATE

RPC005511

RESPONSIBLE PERSONNEL CERT. NO.

OWNER/DEVELOPER SIGNATURE

PHILLIP S. CHO, PROJECT MANAGER

PRINTED NAME AND TITLE

DESIGN CERTIFICATION:

I HEREBY CERTIFY THAT THIS PLAN HAS BEEN DESIGNED IN ACCORDANCE WITH THE 2011 MARYLAND STANDARDS AND SPECIFICATIONS FOR SOIL EROSION AND SEDIMENT CONTROL, THE 2000 MARYLAND STORMWATER DESIGN MANUAL, VOLUMES I & II INCLUDING SUPPLEMENTS, THE ENVIRONMENT ARTICLE SECTIONS 4-101 THROUGH 116 AND SECTIONS 4-201 AND 215, AND THE CODE OF MARYLAND REGULATIONS (COMAR) 26.17.01 AND COMAR 26.17.02 FOR EROSION AND SEDIMENT CONTROL AND STORMWATER MANAGEMENT, RESPECTIVELY.

01/22/2024

DATE

Michael C. Wychulis

DESIGNER'S SIGNATURE

MICHAEL WYCHULIS, P.E.

PRINTED NAME

MD REGISTRATION NO. 32561

P.E., R.L.S., R.L.A. OR R.A. (CIRCLE ONE)

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HARBOR HALL COURTYARD IMPROVEMENTS

UMBC Project No.: 23-126
 UMB Project No.: XXXX
 A/E Project No.: 17-0782.011
 GC/CM Project No.: XXXX



A. MORTON THOMAS AND ASSOCIATES, INC.
 CONSULTING ENGINEERS
 700 KING FARM BOULEVARD, SUITE 300
 ROCKVILLE, MD 20850
 PHONE (301) 881-2545 | FAX (301) 881-0814
 EMAIL: AMT1@AMTENGINEERING.COM



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. 32561, Expiration Date: 01/06/2026

100% CONSTRUCTION DOCUMENTS

CONSULTANTS

LANDSCAPE ARCHITECTURE
 FLOURA TEETER LANDSCAPE ARCHITECTS

ELECTRICAL ENGINEERING
 WFT ENGINEERING, INC.

GEOTECHNICAL SERVICES
 KIM ENGINEERING

COST ESTIMATING
 FORELLA GROUP, LLC

CIVIL ENGINEERING/PRIME
 A. MORTON THOMAS AND ASSOCIATES
 700 KING FARM BLVD, SUITE 300
 ROCKVILLE, MD 20850
 301-881-2545

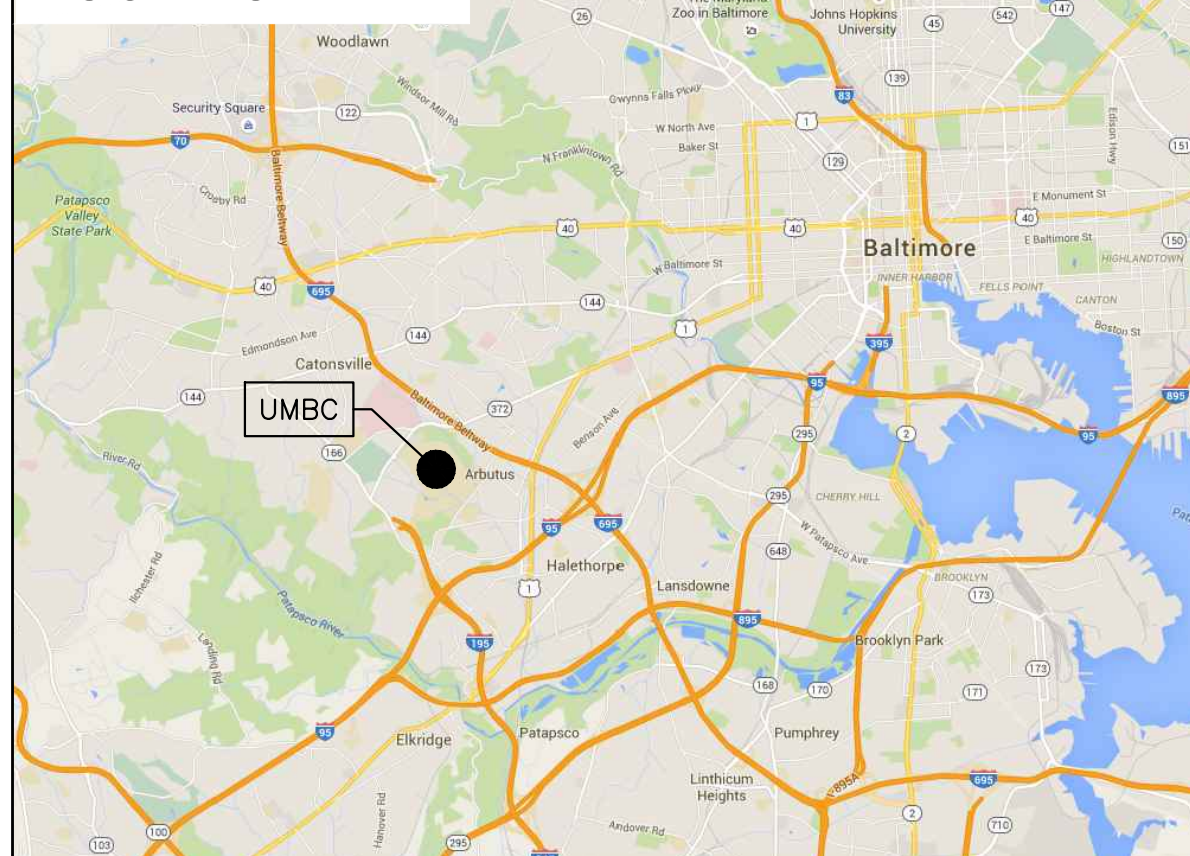
LANDSCAPE ARCHITECTURE
 FLOURA TEETER LANDSCAPE ARCHITECTS
 800 N. CHARLES STREET, SUITE 300
 BALTIMORE, MD 20201
 410-528-8395

ELECTRICAL ENGINEERING
 WFT ENGINEERING, INC.
 1801 RESEARCH BLVD, SUITE 100
 ROCKVILLE, MD 20850
 301-230-0811

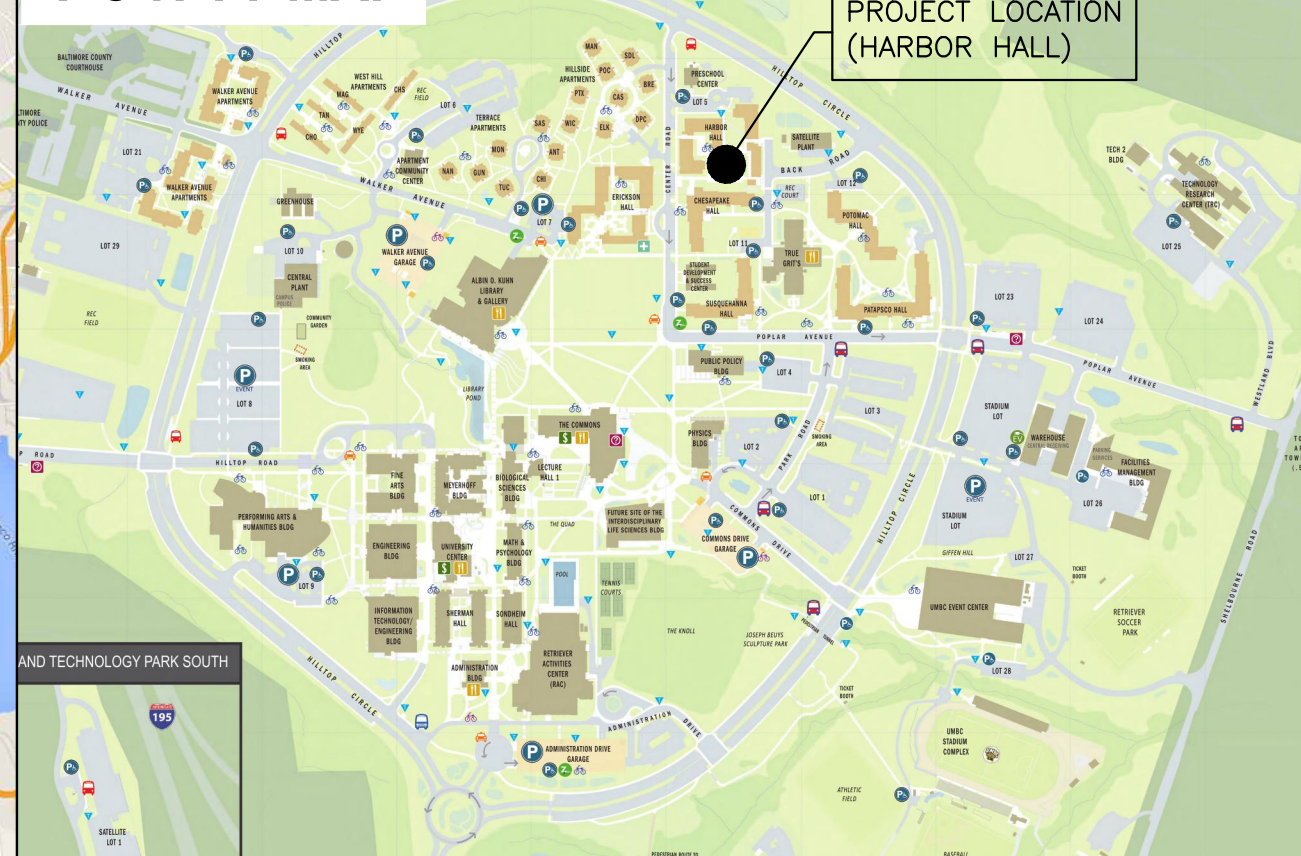
GEOTECHNICAL ENGINEERING
 KIM ENGINEERING
 1550 CANTON CENTER DRIVE, SUITE K
 BALTIMORE, MD 21227
 410-501-3669

COST ESTIMATING
 FORELLA GROUP, LLC
 5180 PARKSTONE DR, SUITE 250
 CHANTILLY, VA 20151
 703-560-2200

LOCATION MAP



VICINITY MAP



STATE OF MARYLAND

BOARD OF PUBLIC WORKS

Wes Moore Governor
 Brooke E. Lierman Comptroller
 Dereck E. Davis Treasurer

MARYLAND GENERAL ASSEMBLY

Bill Ferguson Senate President
 Adrienne A Jones House Speaker

KEY PLAN

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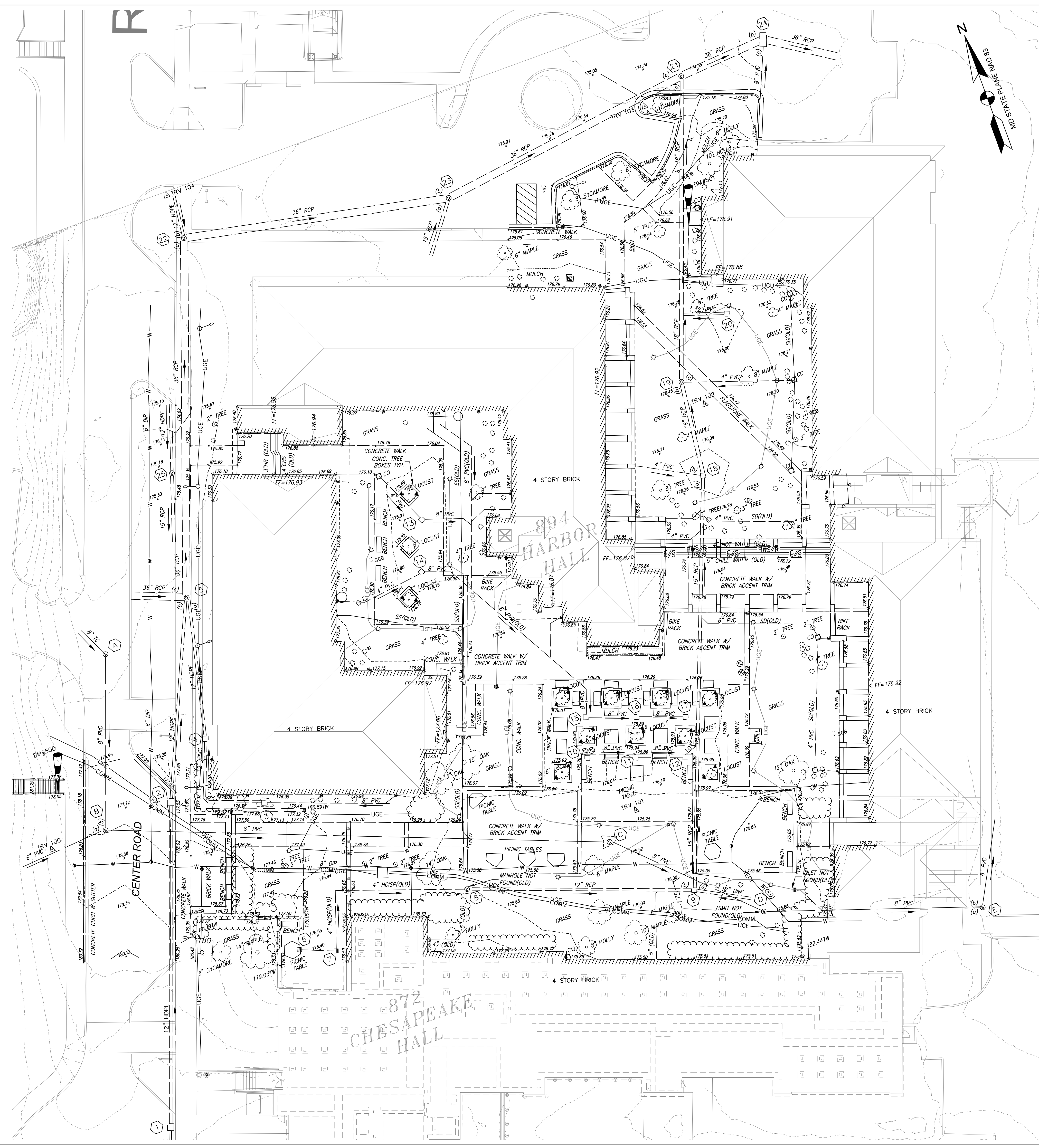
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COVER SHEET

G-000

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LEGEND:

⊙	BUSH
⊖	STORM MANHOLE
□	ROOF DRAIN
■	YARD INLET
⊕	ELECTRIC JUNCTION BOX
⊙	LIGHT POLE
⊙	GROUND LIGHT
⊙	LAMP
⊙	EMERGENCY CALL BOX
⊙	COMMUNICATION MANHOLE
⊙	SANITARY SEWER MANHOLE
⊙	CLEAN OUT
⊙	WATER VALVE
⊙	FIRE HYDRANT
⊙	SPRINKLER CONTROL BOX
⊙	SIAMESE CONNECTION
⊙	TRAVERSE
⊙	BENCHMARK
⊙	CURB AND GUTTER
---	UNDERGROUND WATERLINE PAINT
---	UNDERGROUND COMMUNICATION LINE PAINT
---	UNDERGROUND UNKNOWN LINE PAINT
---	UNDERGROUND ELECTRIC PAINT
---	CHILL WATER SERVICE AND RETURN LINE
---	HOT WATER SERVICE AND RETURN LINE
---	BUILDING OVERHANG
---	END OF (OLB) INFORMATION

MDE TABLE 5.1

FEDERAL	PRESENT (Y/N)
WETLANDS	NO
MAJOR WATERWAYS	NO
FLOODPLAINS	NO
STATE	
TIDAL AND NON-TIDAL WETLANDS	NO
WETLANDS OF SPECIAL STATE CONCERN	NO
WETLAND BUFFERS	NO
STREAM BUFFERS	NO
PERENNIAL SPRINGS	NO
FLOODPLAINS	NO
FORESTS	NO
FOREST BUFFERS	NO
CRITICAL AREAS	NO
LOCAL	
STEEP SLOPES	NO
HIGHLY ERODIBLE SOILS	NO
ENHANCED STREAM BUFFERS	NO
TOPOGRAPHY/SLOPES	AS SHOWN
SPRINGS	NO
SEEPS	NO
INTERMITTENT STREAMS	NO
VEGETATIVE COVER	AS SHOWN
SOILS	SEE TABLE BELOW
BEDROCK/GEOLOGY	REFERENCE SOILS REPORT
EXISTING DRAINAGE AREA	REFERENCE DRAINAGE AREA MAPS

TRAVERSE DATA:

NO	NORTHING	EASTING	ELEV	DESCRIPTION
100	579365.1010	1394747.9017	179.61	REBAR & CAP
101	579298.8459	1394975.8450	175.80	REBAR & CAP
102	579444.0523	1395058.6296	176.39	REBAR & CAP
103	579565.9146	1395077.0009	175.61	REBAR & CAP
104	579598.4455	1394882.5163	177.06	REBAR & CAP

MAPPED SOIL TYPES

SYMBOL	DESCRIPTION	HSG	HYDRIC	HIGHLY ERODIBLE
Ur	URBAN LAND, 0 TO 8% SLOPES	D	No	No

BENCHMARK DATA:

NO	ELEV	DESCRIPTION
500	178.56	SQ-CUT BOTTOM OF STEPS SOUTH CORNER
501	176.72	SQ-CUT CORNER OF CONCRETE PAD

STORM CHART

1 GRATE INLET TOP=182.30 INV IN=178.33 INV OUT=178.12	9 GRATE INLET TOP=174.16 INV IN(a)=168.29 INV IN(b)=170.33 INV OUT=168.12	17 GRATE INLET TOP=175.85 INV IN(a)=168.30 INV OUT=168.05	24 CATCH BASIN TOP=173.81 INV IN(a)=167.45 INV IN(b)=164.20 INV OUT=163.92
2 GRATE INLET TOP=177.33 INV IN=174.32 INV OUT=172.16	10 GRATE INLET TOP=175.84 INV IN=171.57	18 GRATE INLET TOP=175.64 INV IN(a)=166.73 INV IN(b)=171.74 INV OUT=166.67	25 MANHOLE (PERFORATED) TOP=175.24 INV IN=170.86 INV OUT=170.32
3 GRATE INLET TOP=175.85 INV IN=172.00 INV OUT=171.68	11 GRATE INLET TOP=175.86 INV IN=170.52 INV OUT=171.32	19 MANHOLE (PERFORATED) TOP=176.46 INV IN(a)=170.71 INV IN(b)=166.46 INV OUT=166.14	
4 GRATE INLET TOP=177.33 INV IN=171.36 INV OUT=171.29	12 GRATE INLET TOP=175.89 INV IN=169.77 INV OUT=169.69	20 GRATE INLET TOP=175.83 INV OUT=171.03	
5 MANHOLE (PERFORATED) TOP=176.17 INV IN(a)=170.52 INV IN(b)=170.82 INV IN(c)=168.84 INV OUT=168.46	13 GRATE INLET TOP=175.62 INV IN=172.93 INV OUT=172.78	21 MANHOLE (PERFORATED) TOP=174.54 INV IN(a)=165.32 INV IN(b)=165.10 INV OUT=164.79	
6 YARD INLET TOP=176.31 *FULL OF DEBRIS	14 GRATE INLET TOP=175.74 INV IN=173.35 INV OUT=173.34	22 MANHOLE (PERFORATED) TOP=176.24 INV IN(a)=167.20 INV IN(b)=172.56 INV OUT=167.23	
7 YARD INLET TOP=176.33 *FULL OF DEBRIS	15 GRATE INLET TOP=175.72 INV IN=169.72 INV OUT=169.36	23 MANHOLE (PERFORATED) TOP=175.51 INV IN(a)=168.11 INV IN(b)=166.07 INV OUT=166.05	
8 MANHOLE *NOT FOUND ADDED PER RECORD	16 GRATE INLET TOP=175.82 INV IN=168.90 INV OUT=168.77		

SEWER CHART

A TOP=175.75 INV IN=170.71 INV OUT=170.70	B TOP=177.94 INV IN(a)=169.91 INV IN(b)=169.95 INV OUT=169.86	C TOP=176.09 INV IN=167.72 INV OUT=167.51	D *NOT FOUND ADDED PER RECORD	E TOP=175.13 INV IN(a)=167.03 (APPEARS ABND.) INV IN(b)=163.96 INV OUT=163.86
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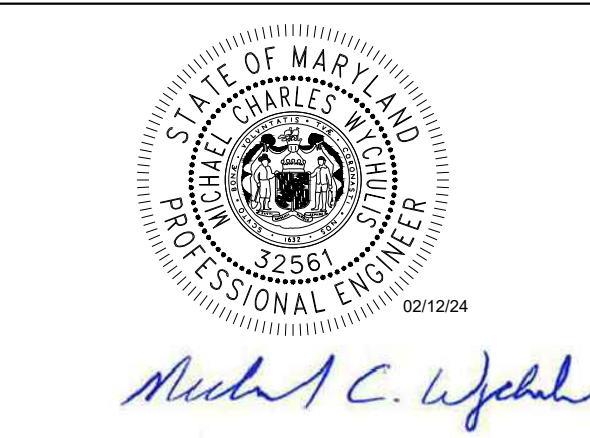
GENERAL NOTES

- HORIZONTAL DATUM: MARYLAND STATE PLANE NAD 83/2011
VERTICAL DATUM: NAVD 88
U.S. SURVEY FEET
BASED ON RTK GPS OBSERVATIONS
- UTILITY DEPICTIONS SHOWN HEREON CONFORM TO QUALITY LEVELS AS DEFINED BY "CI/ASCE STANDARD 38-02". AN EFFORT HAS BEEN MADE TO DEPICT UTILITY AT QL"B". SOME UTILITIES MAY BE SHOWN AT QL "C" OR "D" AS NECESSARY AND ARE LABELED ACCORDINGLY.
- THE SUBSURFACE UTILITIES DEPICTED HEREON AT QUALITY LEVEL "B" REPRESENT THE REMOTELY SENSED INDICATION OF THE SUBSURFACE UTILITY. UTILITY PIPE SIZES AND CONFIGURATIONS (IF DENOTED) HAVE BEEN TAKEN FROM RECORD DRAWINGS AND ACCESSIBLE FIELD EVIDENCE. THE ACTUAL LOCATION, SIZE AND EXTENT OF ALL SUBSURFACE UTILITIES MUST BE DETERMINED THROUGH TEST HOLE OR OTHER QUALITY LEVEL "A" INVESTIGATION METHODS.
- OLD STORM AND SEWER SHOWN HEREON ADDED PER A DRAWING PROVIDED BY CLIENT ENTITLED "UMBC-Site_Uilities".
- SURVEY COMPLETED MAY 2023.



HARBOR HALL COURTYARD IMPROVEMENTS

UMBC Project No.:	23-126
UMB Project No.:	XXXX
A/E Project No.:	17-0782.011
GC/CM Project No.:	XXXX



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100% CONSTRUCTION DOCUMENTS

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- ELECTRICAL ENGINEERING
WFT ENGINEERING, INC.
- GEOTECHNICAL SERVICES
KIM ENGINEERING
- COST ESTIMATING
FORELLA GROUP, LLC

KEY PLAN

REV	DATE	DESCRIPTION
		RECORD SET
		AS-BUILT / CONFORMING SET
02/12/2024		100% CONSTRUCTION SET
10/28/2023		95% CONSTRUCTION SET
10/28/2023		50% CONSTRUCTION SET
08/24/2023		DESIGN DEVELOPMENT
06/13/2023		SCHEMATIC DESIGN

DATE: 02/12/2024	SCALE: 1"=20'
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EXISTING CONSTRUCTION PLAN

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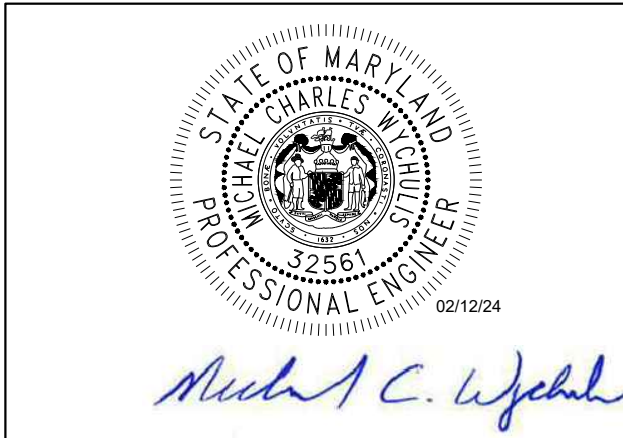
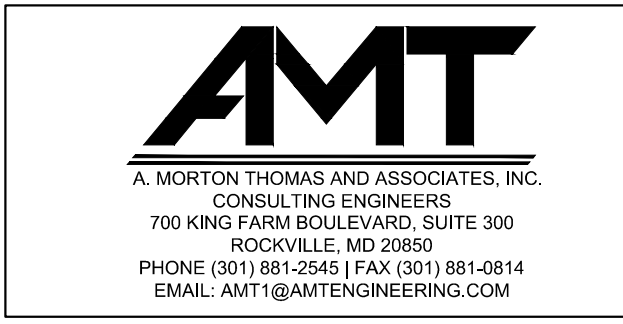
- DEMOLITION KEYNOTES**
1. REMOVE TREE
 2. REMOVE CONCRETE PAVEMENT AND BASE COURSE
 3. REMOVE BRICK PAVING AND BASE COURSE
 4. REMOVE AND SALVAGE FLAGSTONE
 5. RELOCATE SOLAR CHARGING TABLE/STATION
 6. SALVAGE TRASHCANS
 7. REMOVE AND SALVAGE FURNITURE AT OWNER'S DIRECTION
 8. REMOVE INVASIVE VEGETATION

- DEMOLITION LEGEND**
- X EXISTING OBJECT TO BE REMOVED
 - [Cross-hatch pattern] CONCRETE TO BE REMOVED
 - [Solid grey pattern] BRICK PAVING TO BE REMOVED
 - [Star pattern] FLAGSTONE TO BE REMOVED AND SALVAGED



HARBOR HALL COURTYARD IMPROVEMENTS

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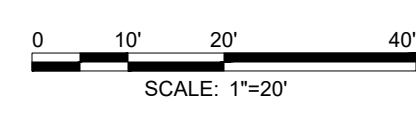
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	06/13/2023	SCHEMATIC DESIGN

DATE: 02/12/2024 SCALE: 1"=20'

SITE DEMOLITION PLAN

CD-101



MDE No. 24-SF-0026



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100% CONSTRUCTION DOCUMENTS

CONSULTANTS

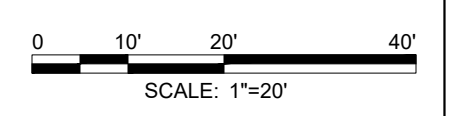
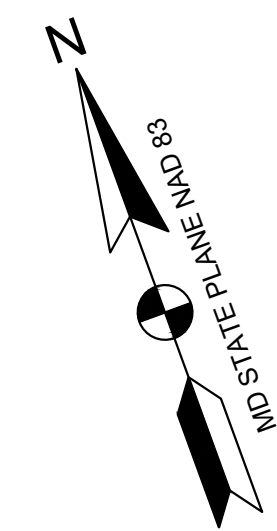
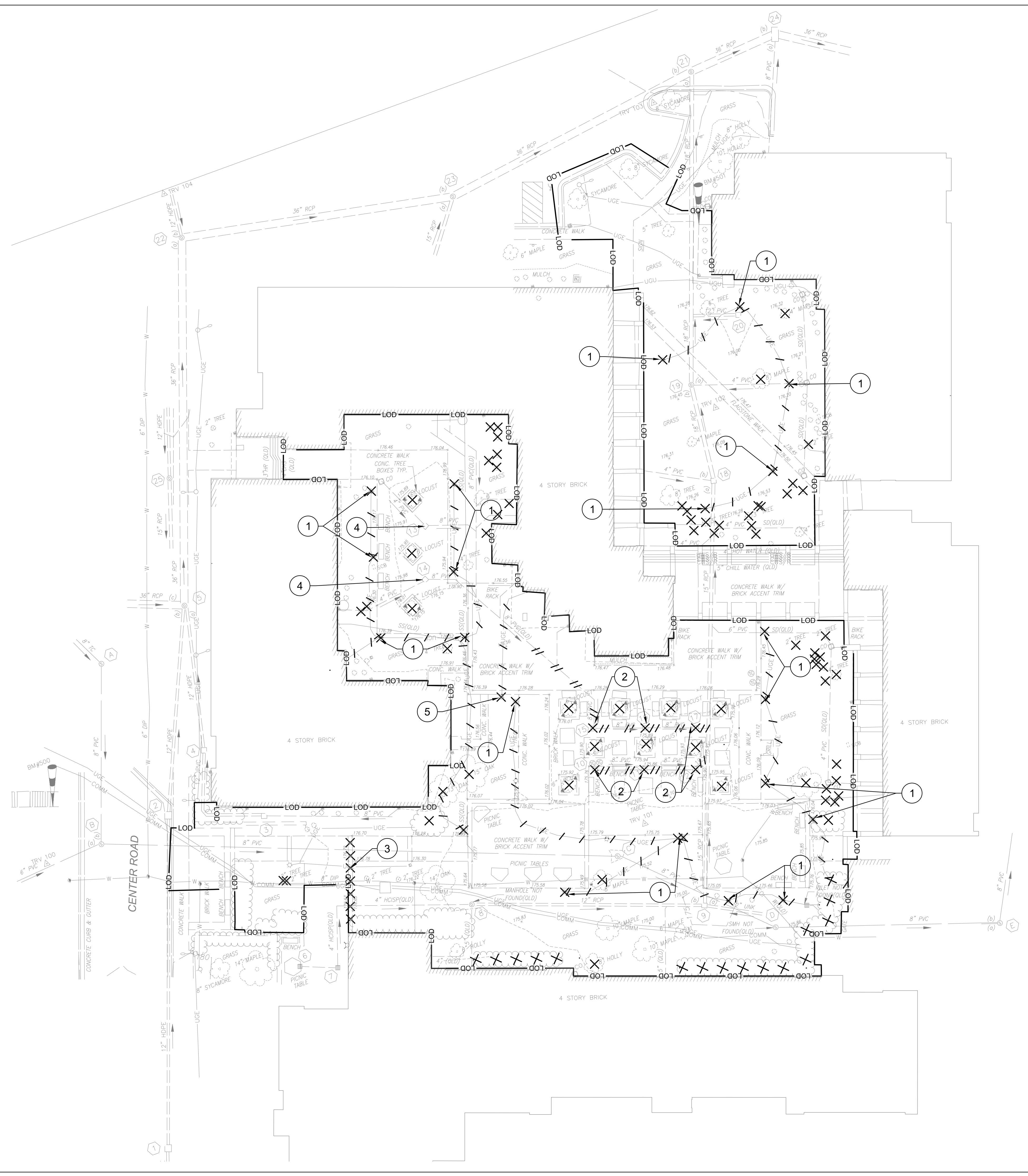
- LANDSCAPE ARCHITECTURE
 FLOURA TEETER LANDSCAPE ARCHITECTS
- ELECTRICAL ENGINEERING
 WFT ENGINEERING, INC.
- GEOTECHNICAL SERVICES
 KIM ENGINEERING
- COST ESTIMATING
 FORELLA GROUP, LLC

UTILITY DEMOLITION KEYNOTES

1. REMOVE SITE LIGHT
2. REMOVE STORM DRAIN INLET
3. REMOVE BOLLARDS
4. REMOVE AND REPLACE STORM DRAIN INLET GRATE WITH ADA COMPLIANT GRATE
5. REMOVE AND REPLACE EMERGENCY PHONE, SEE SHEET EL-002

DEMOLITION LEGEND

- X EXISTING OBJECT TO BE REMOVED
- [Cross-hatched box] CONCRETE TO BE REMOVED
- [Solid grey box] BRICK PAVING TO BE REMOVED
- ELECTRIC LINE TO BE REMOVED
- - - - - STORM DRAIN PIPE TO BE REMOVED

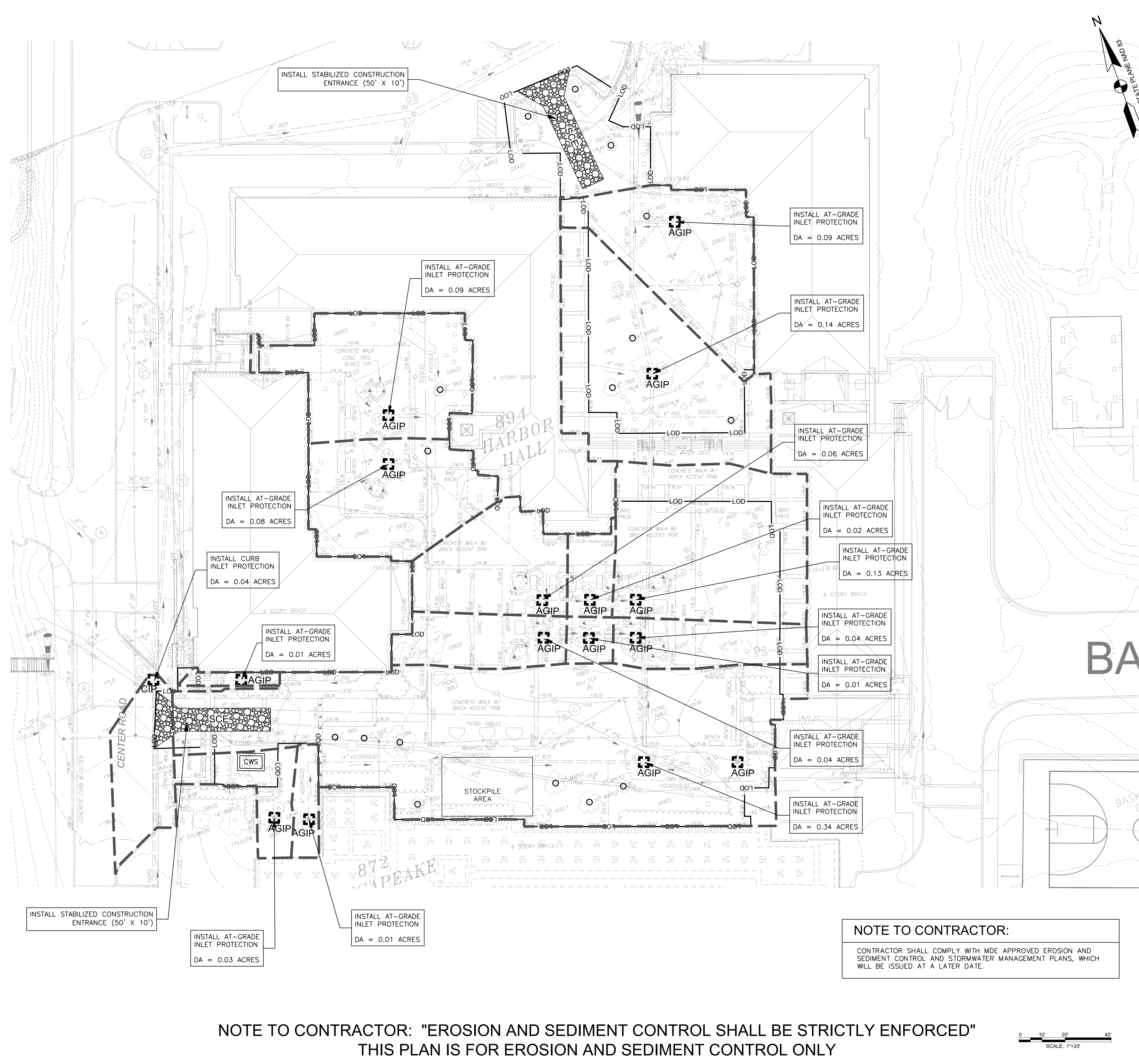


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UTILITY DEMOLITION PLAN



EROSION/SEDIMENT CONTROL LEGEND

	LOD	LIMITS OF DISTURBANCE
	FL-18	FILTER LOG (TO BE USED AS SECONDARY MEASURES)
	TP	TREE PROTECTION FENCE
		EROSION CONTROL DRAINAGE DIVIDE
		STABILIZED CONSTRUCTION ENTRANCE
	AGIP	AT-GRADE INLET PROTECTION
	CIP	CURB INLET PROTECTION
		TREE PROTECTION
	CWS	CONCRETE WASHOUT STRUCTURE

LEGEND NOTE:
PERIMETER CONTROLS ARE SHOWN OFFSET FROM THE LOD FOR ILLUSTRATIVE PURPOSES ONLY. THE PERIMETER CONTROLS SHOULD BE INSTALLED ALONG THE LOD.

DAILY STABILIZATION NOTE:
PROVIDE DAILY STABILIZATION WITH SOIL STABILIZATION MATTING AT THE END OF EACH WORK DAY FOR WORK PERFORMED WITHIN THE LOD IN THE COURTYARD.

STANDARD STABILIZATION NOTE:
FOLLOWING INITIAL SOIL DISTURBANCE OR RE-DISTURBANCE, PERMANENT OR TEMPORARY STABILIZATION MUST BE COMPLETED WITHIN:

- a. THREE (3) CALENDAR DAYS AS TO THE SURFACE OF ALL PERIMETER DIKES, SWALES, DITCHES, PERIMETER SLOPES, AND ALL SLOPES STEEPER THAN 3 HORIZONTAL TO 1 VERTICAL (3:1); AND
- b. SEVEN (7) CALENDAR DAYS AS TO ALL OTHER DISTURBED OR GRADED AREAS ON THE PROJECT SITE NOT UNDER ACTIVE GRADING

EROSION CONTROL NOTES:

1. PROVIDE WATER FOR THE CONCRETE WASHOUT STRUCTURE.
2. ALL SOIL STOCKPILING SHALL BE WITHIN THE LOD AND ADHERE TO SPECIFICATIONS B-4-8 OF 2011 MARYLAND STANDARDS AND SPECIFICATIONS FOR SOIL EROSION AND SEDIMENT CONTROL. ALL STOCKPILES SHALL BE PROTECTED TO ENSURE THEY ARE SUITABLE FOR REUSE. TOPSOIL SHALL BE STOCKPILED SEPARATELY.
3. CLEAR ALL STREETS FREE OF SEDIMENT AT THE END OF EACH WORK DAY. ALL EFFORTS ARE TO BE MADE TO PREVENT SEDIMENT FROM GETTING ON THE STREETS. ALL SEDIMENT SPILLED, DROPPED OR TRACKED ONTO THE ROAD MUST BE REMOVED IMMEDIATELY BY VACUUMING, SCRAPING OR SWEEPING. WHEN WASHING WATER IS REQUIRED, IT SHALL BE DONE ON AN AREA STABILIZED WITH STONE THAT DRAINS TO AN APPROVED SEDIMENT CONTROL DEVICE.

SEQUENCE OF CONSTRUCTION:
INITIAL PHASE - CE-101

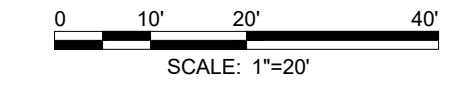
1. NOTIFY THE WATER AND SCIENCE ADMINISTRATION (WSA) AT (410) 537-3510 SEVEN DAYS BEFORE COMMENCING ANY LAND DISTURBING ACTIVITIES AND SHALL HOLD A PRE-CONSTRUCTION MEETING BETWEEN PROJECT REPRESENTATIVES AND REPRESENTATIVES OF THE WSA, UNLESS WAIVED BY THE WSA.
2. FIELD MARK THE LIMITS OF DISTURBANCE.
3. INSTALL INLET PROTECTION MEASURES, STABILIZED CONSTRUCTION ENTRANCE, SILT FENCE, AND STEEL PLATES.
4. ONCE ALL EROSION CONTROL MEASURES ARE INSTALLED, WITH THE APPROVAL FROM THE INSPECTOR, BEGIN SITE DEMOLITION. ALL LAND DISTURBING WORK SHALL BE COMPLETED ON A SAME DAY STABILIZATION BASIS. SEE SAME DAY STABILIZATION NOTE. REMOVE EXISTING INLET CONTROLS AS STORM DRAIN STRUCTURES ARE REMOVED.


FINAL PHASE - CE-102

5. BEGIN CONSTRUCTION OF SITE IMPROVEMENTS AND SITE UTILITIES. ONCE THE STABILIZATION OF CONTRIBUTING DRAINAGE AREAS OCCURS AND WITH MDE INSPECTOR ALLOWANCE, CONSTRUCT STORMWATER MANAGEMENT FACILITIES AND INSTALL SILT FENCE AROUND FILTER BED. COORDINATE ALL SWM AS-BUILT INSPECTIONS WITH THE CERTIFYING ENGINEER.
6. PRIOR TO INSTALLATION OF FINAL LANDSCAPING, CONTRACTOR SHALL PROVIDE TOPOGRAPHIC SURVEY TO THE CERTIFYING ENGINEER FOR REVIEW AND ACCEPTANCE THAT THE FACILITIES HAS BEEN CONSTRUCTED IN ACCORDANCE WITH THE APPROVED PLANS. CONTRACTOR SHALL PREVENT SEDIMENT LADEN RUNOFF FROM ENTERING THE FACILITIES.
7. WITH APPROVAL FROM OWNER THAT STORMWATER FACILITIES ARE ACCEPTABLE, INSTALL FINAL SITE AND STORMWATER MANAGEMENT LANDSCAPING. NOTE, ADJUSTMENTS MAY ARISE DURING THE MDE AS-BUILT REVIEW PROCESS.
8. ONCE ALL AREAS ARE STABILIZED, WITH THE APPROVAL FROM THE MDE INSPECTOR, REMOVE ALL SEDIMENT CONTROL MEASURES AND IMMEDIATELY STABILIZE THE AREAS DISTURBED BY THEIR REMOVAL.
9. PROVIDE AS-BUILT DOCUMENTATION TO MDE. PROJECT CANNOT BE CLOSED OUT UNTIL MDE ISSUES THE AS-BUILT ACCEPTANCE FOR ALL STORMWATER MANAGEMENT FACILITIES.

NOTE TO CONTRACTOR:
CONTRACTOR SHALL COMPLY WITH MDE APPROVED EROSION AND SEDIMENT CONTROL AND STORMWATER MANAGEMENT PLANS, WHICH WILL BE ISSUED AT A LATER DATE.


**NOTE TO CONTRACTOR: "EROSION AND SEDIMENT CONTROL SHALL BE STRICTLY ENFORCED"
THIS PLAN IS FOR EROSION AND SEDIMENT CONTROL ONLY**



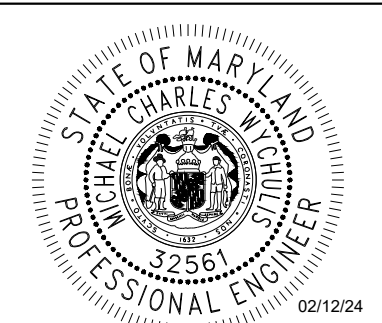


HARBOR HALL COURTYARD IMPROVEMENTS

UMBC Project No.: 23-126
UMB Project No.: XXXX
A/E Project No.: 17-0782.011
GC/CM Project No.: XXXX



A. MORTON THOMAS AND ASSOCIATES, INC.
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Michael C. W. Johnson
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100% CONSTRUCTION DOCUMENTS

CONSULTANTS

LANDSCAPE ARCHITECTURE
FLORA TEETER LANDSCAPE ARCHITECTS

ELECTRICAL ENGINEERING
WFT ENGINEERING, INC.

GEOTECHNICAL SERVICES
KIM ENGINEERING

COST ESTIMATING
FORELLA GROUP, LLC

KEY PLAN

REV	DATE	DESCRIPTION
		RECORD SET
		AS-BUILT / CONFORMING SET
	02/12/2024	100% CONSTRUCTION SET
	12/08/2023	95% CONSTRUCTION SET
	10/26/2023	50% CONSTRUCTION SET
	08/24/2023	DESIGN DEVELOPMENT
	06/13/2023	SCHEMATIC DESIGN

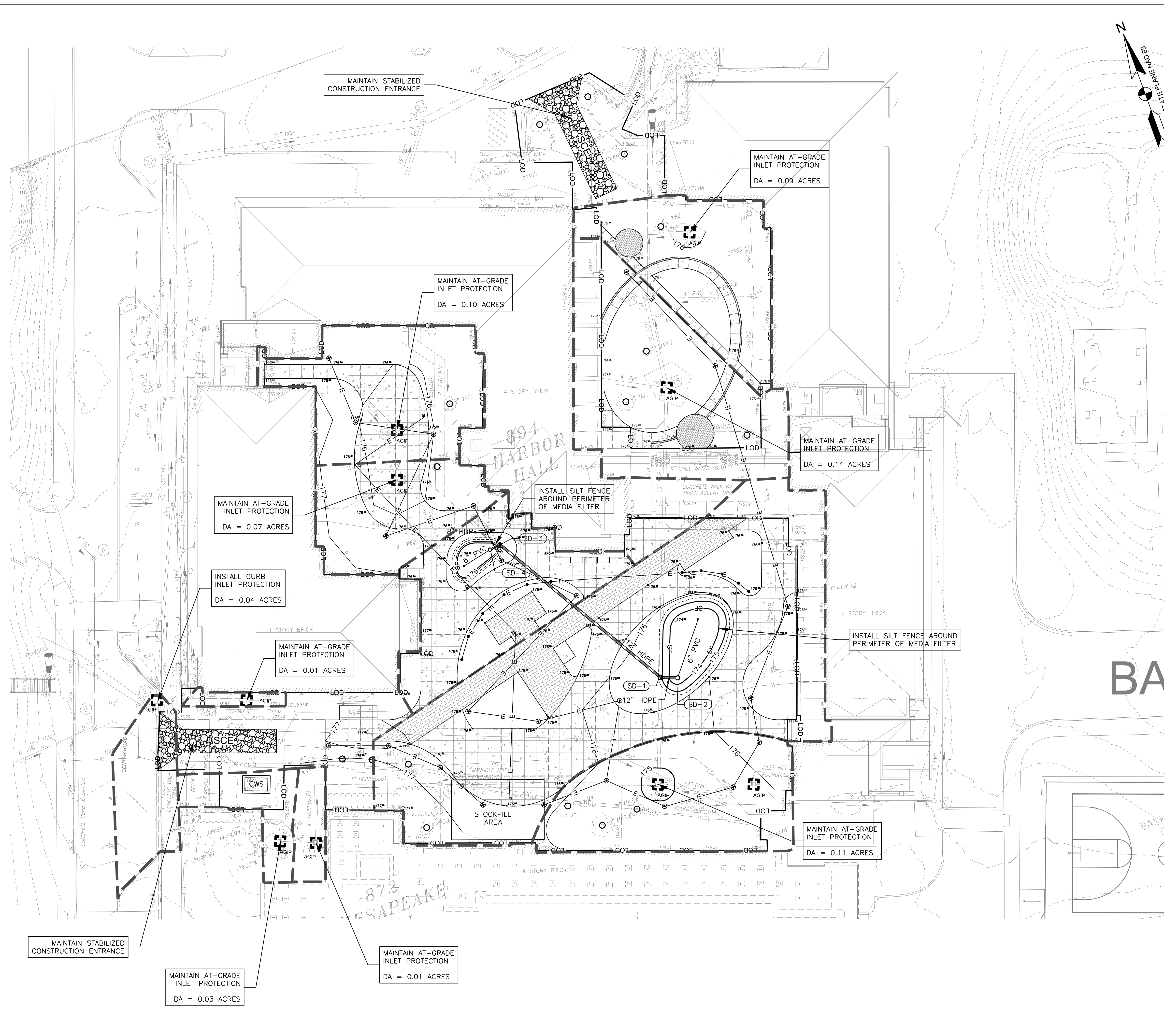
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EROSION AND SEDIMENT CONTROL PLAN - INITIAL

CE-101

MDE No. 24-SF-0026

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EROSION/SEDIMENT CONTROL LEGEND

— LOD —	LIMITS OF DISTURBANCE
— FL-18 —	FILTER LOG (TO BE USED AS SECONDARY MEASURES)
— TP —	TREE PROTECTION FENCE
— SF —	SILT FENCE
— ECD —	EROSION CONTROL DRAINAGE DIVIDE
	STABILIZED CONSTRUCTION ENTRANCE
	AT-GRADE INLET PROTECTION
	CURB INLET PROTECTION
	TREE PROTECTION
	CONCRETE WASHOUT STRUCTURE

LEGEND NOTE:
PERIMETER CONTROLS ARE SHOWN OFFSET FROM THE LOD FOR ILLUSTRATIVE PURPOSES ONLY. THE PERIMETER CONTROLS SHOULD BE INSTALLED ALONG THE LOD.

DAILY STABILIZATION NOTE:
PROVIDE DAILY STABILIZATION WITH SOIL STABILIZATION MATTING AT THE END OF EACH WORK DAY FOR WORK PERFORMED WITHIN THE LOD IN THE COURTYARD.

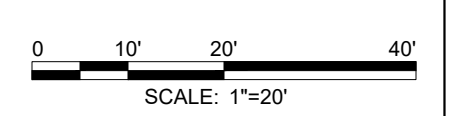
STANDARD STABILIZATION NOTE:
FOLLOWING INITIAL SOIL DISTURBANCE OR RE-DISTURBANCE, PERMANENT OR TEMPORARY STABILIZATION MUST BE COMPLETED WITHIN:

- THREE (3) CALENDAR DAYS AS TO THE SURFACE OF ALL PERIMETER DIKES, SWALES, DITCHES, PERIMETER SLOPES, AND ALL SLOPES STEEPER THAN 3 HORIZONTAL TO 1 VERTICAL (3:1); AND
- SEVEN (7) CALENDAR DAYS AS TO ALL OTHER DISTURBED OR GRADED AREAS ON THE PROJECT SITE NOT UNDER ACTIVE GRADING

- EROSION CONTROL NOTES:**
- PROVIDE WATER FOR THE CONCRETE WASHOUT STRUCTURE.
 - ALL SOIL STOCKPILING SHALL BE WITHIN THE LOD AND ADHERE TO SPECIFICATIONS B-4-B OF 2011 MARYLAND STANDARDS AND SPECIFICATIONS FOR SOIL EROSION AND SEDIMENT CONTROL. ALL STOCKPILES SHALL BE PROTECTED TO ENSURE THEY ARE SUITABLE FOR REUSE. TOPSOIL SHALL BE STOCKPILED SEPARATELY.
 - CLEAR ALL STREETS FREE OF SEDIMENT AT THE END OF EACH WORK DAY. ALL EFFORTS ARE TO BE MADE TO PREVENT SEDIMENT FROM GETTING ON THE STREETS. ALL SEDIMENT SPILLED, DROPPED OR TRACKED ONTO THE ROAD MUST BE REMOVED IMMEDIATELY BY VACUUMING, SCRAPING OR SWEEPING. WHEN WASHING WATER IS REQUIRED, IT SHALL BE DONE ON AN AREA STABILIZED WITH STONE THAT DRAINS TO AN APPROVED SEDIMENT CONTROL DEVICE.

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**NOTE TO CONTRACTOR: "EROSION AND SEDIMENT CONTROL SHALL BE STRICTLY ENFORCED"
THIS PLAN IS FOR EROSION AND SEDIMENT CONTROL ONLY**



MDE No. 24-SF-0026

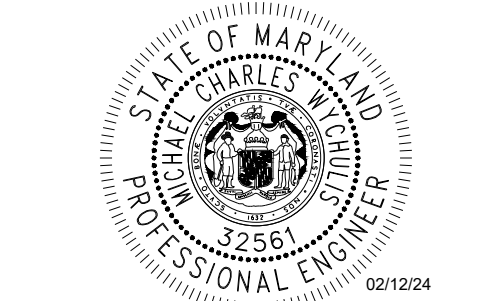


HARBOR HALL COURTYARD IMPROVEMENTS

UMBC Project No.: 23-126
UMB Project No.: XXXX
A/E Project No.: 17-0782.011
GC/CM Project No.: XXXX



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100% CONSTRUCTION DOCUMENTS

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KIM ENGINEERING
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FORELLA GROUP, LLC

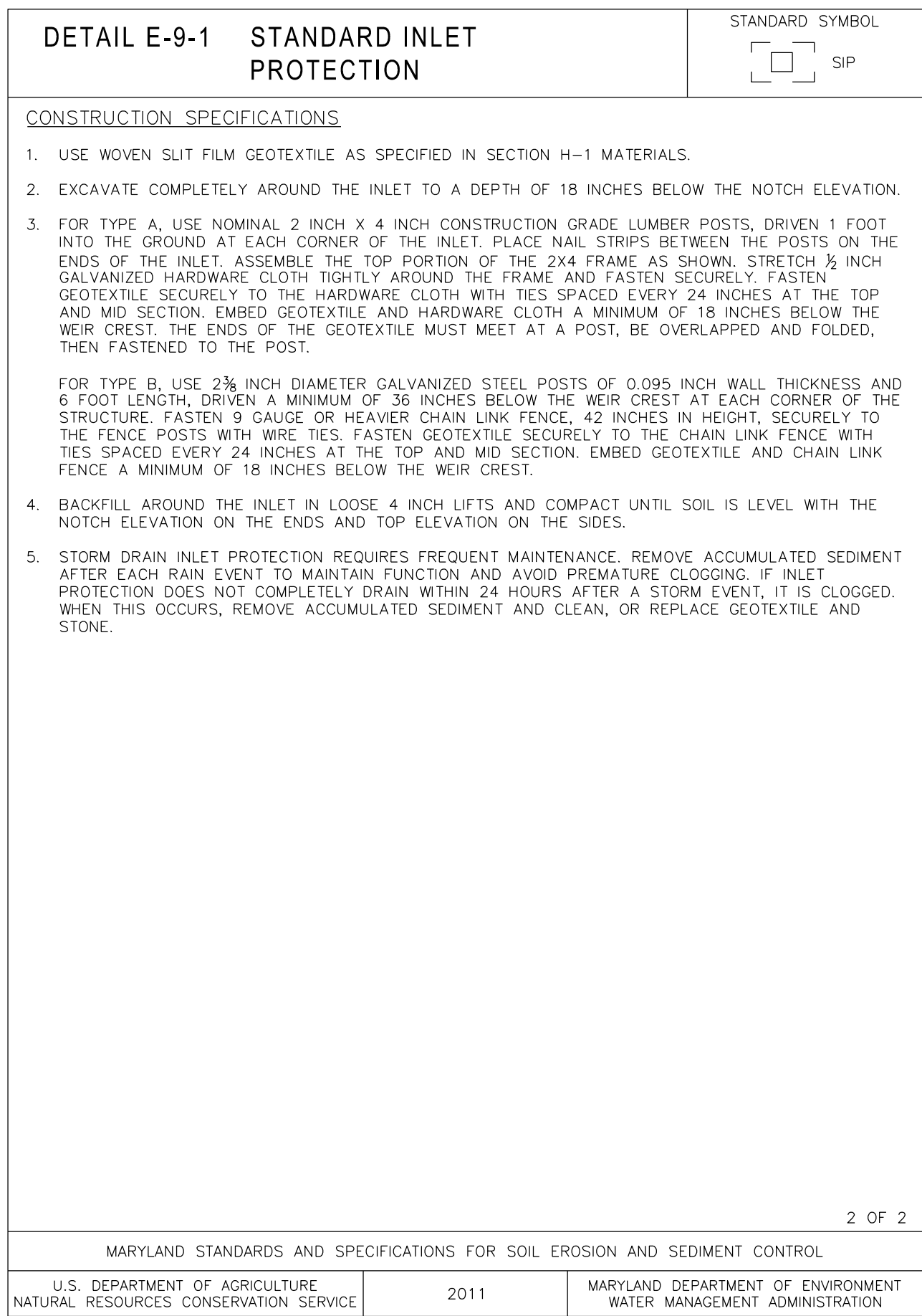
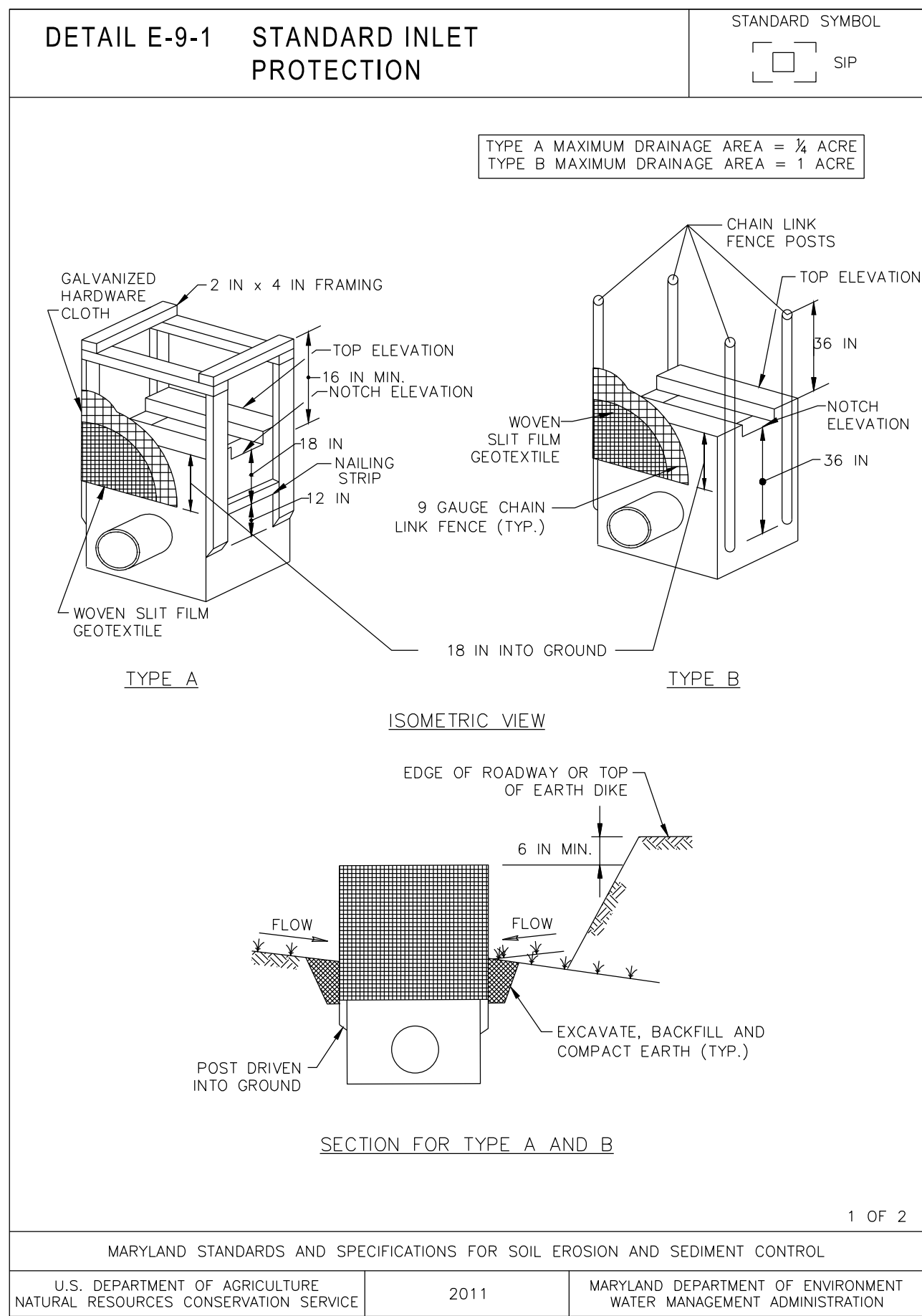
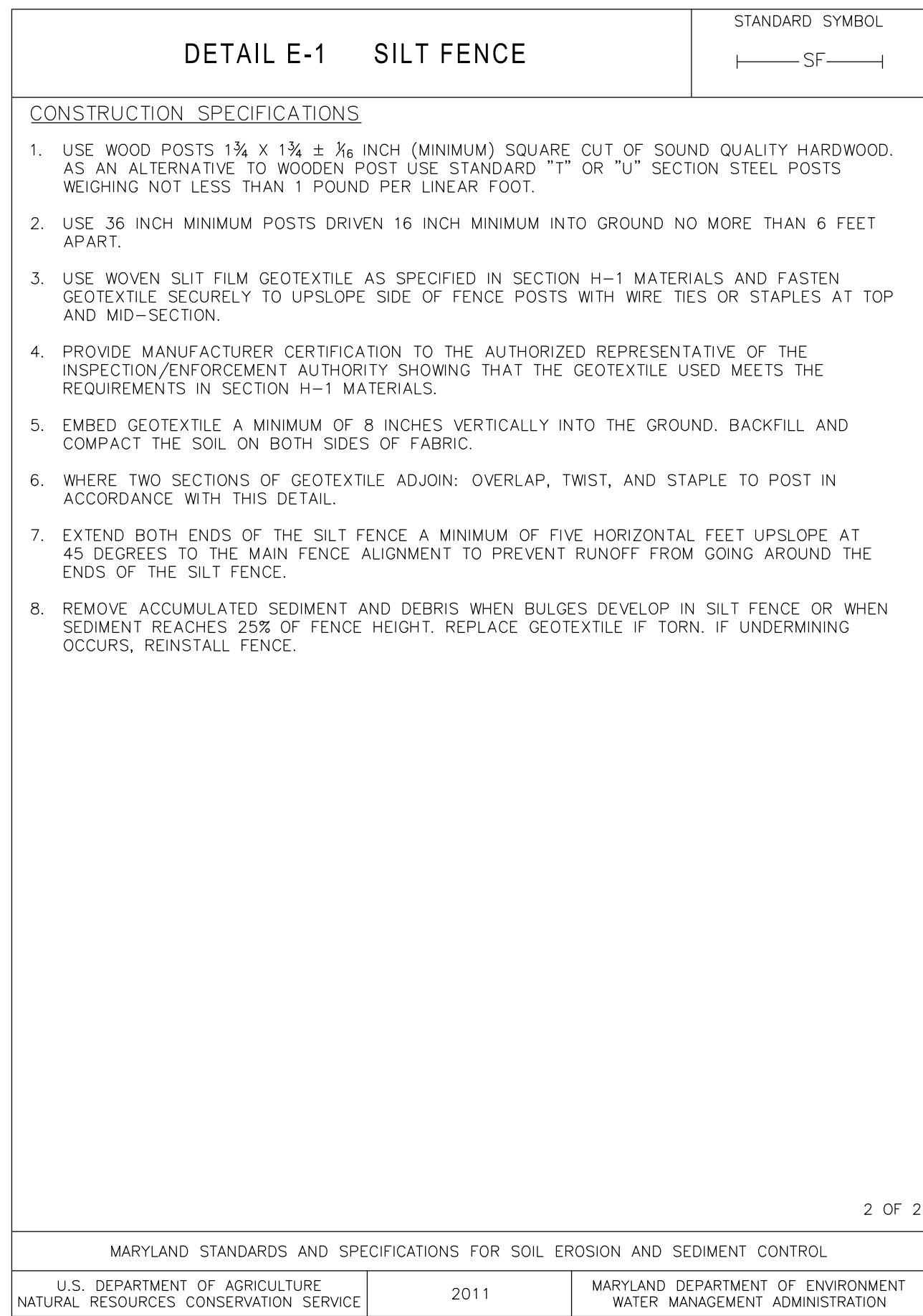
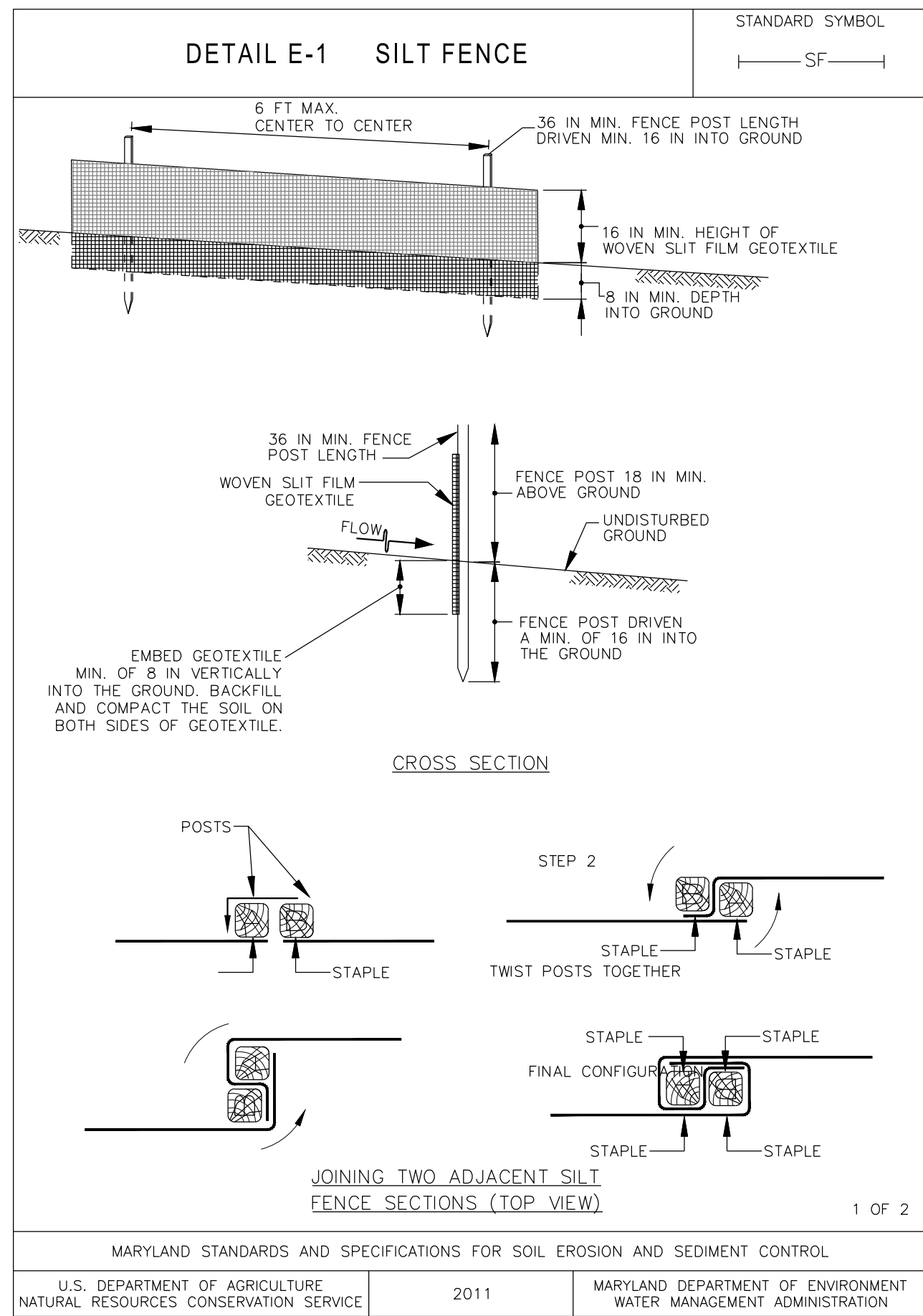
KEY PLAN

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	06/13/2023	SCHEMATIC DESIGN

DATE: 02/12/2024 SCALE: 1"=20'

EROSION AND SEDIMENT CONTROL PLAN - FINAL

CE-102



**NOTE TO CONTRACTOR: "EROSION AND SEDIMENT CONTROL SHALL BE STRICTLY ENFORCED"
THIS PLAN IS FOR EROSION AND SEDIMENT CONTROL ONLY**

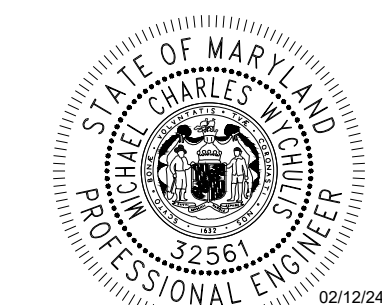


HARBOR HALL COURTYARD IMPROVEMENTS

UMBC Project No.: 23-126
UMB Project No.: XXXX
A/E Project No.: 17-0782.011
GC/CM Project No.: XXXX



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KIM ENGINEERING

COST ESTIMATING
FORELLA GROUP, LLC

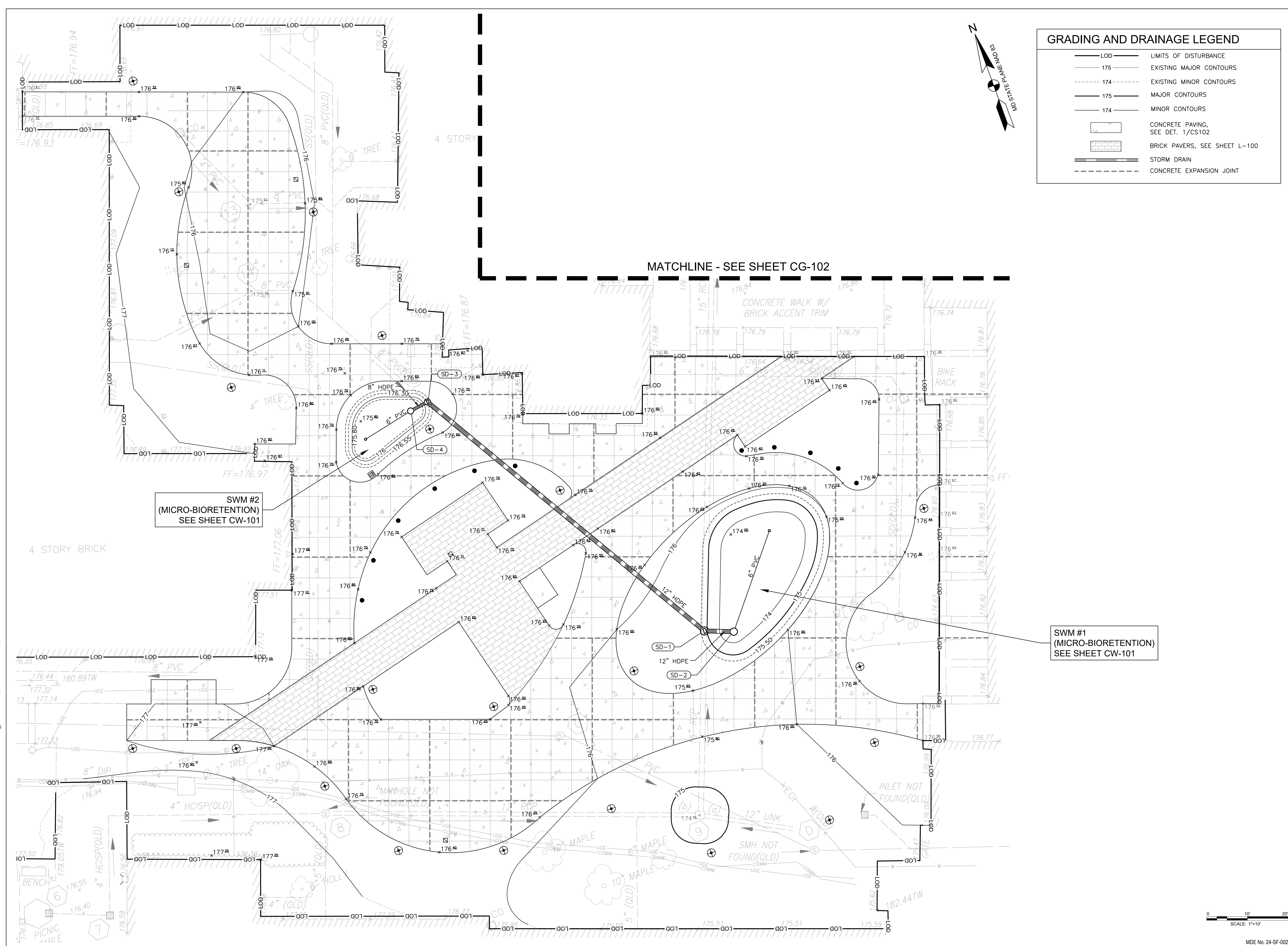
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DATE: 02/12/2024 SCALE: N.T.S.

EROSION AND SEDIMENT CONTROL NOTES 4

CE-504



GRADING AND DRAINAGE LEGEND

	LOD	LIMITS OF DISTURBANCE
	175	EXISTING MAJOR CONTOURS
	174	EXISTING MINOR CONTOURS
	175	MAJOR CONTOURS
	174	MINOR CONTOURS
		CONCRETE PAVING, SEE DET. 1/CS102
		BRICK PAVERS, SEE SHEET L-100
		STORM DRAIN
		CONCRETE EXPANSION JOINT

UMBC

HARBOR HALL COURTYARD IMPROVEMENTS

UMBC Project No.: 23-126
 UMB Project No.: XXXX
 A/E Project No.: 17-0782.011
 GC/CM Project No.: XXXX

AMT
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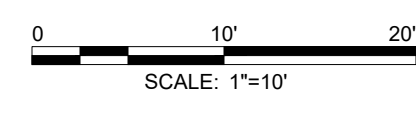
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DATE: 02/12/2024 SCALE: 1"=10'

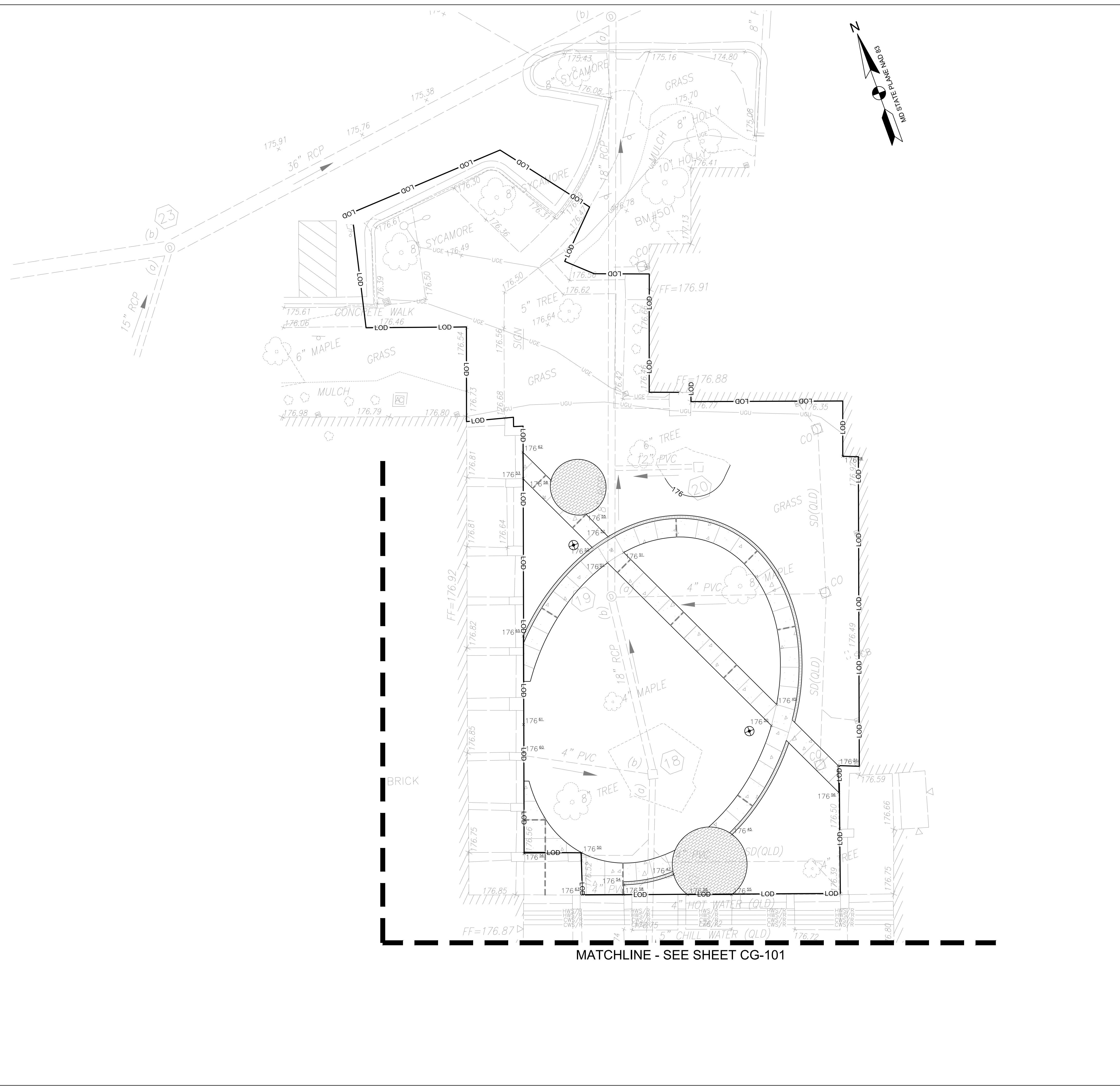
GRADING AND DRAINAGE PLAN 1

CG-101

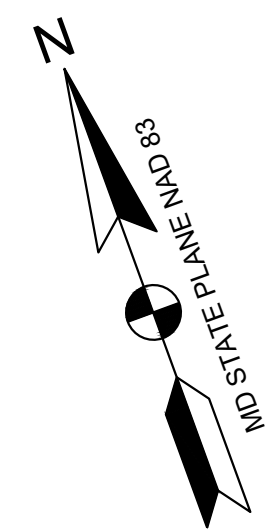


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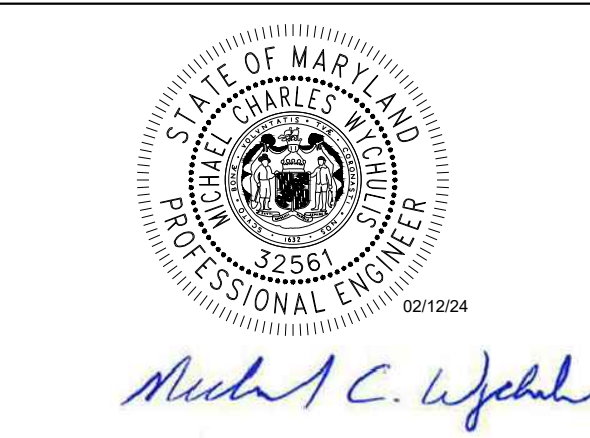


GRADING AND DRAINAGE LEGEND	
— LOD —	LIMITS OF DISTURBANCE
— 175 —	EXISTING MAJOR CONTOURS
- - - 174 - - -	EXISTING MINOR CONTOURS
— 175 —	MAJOR CONTOURS
— 174 —	MINOR CONTOURS
[Pattern]	CONCRETE PAVING, SEE DET. 1/CS102
[Pattern]	BRICK PAVERS, SEE SHEET L-100
[Pattern]	BRICK PAVER BAND, SEE SHEET L-100
[Symbol]	STORM DRAIN
- - -	CONCRETE EXPANSION JOINT



HARBOR HALL COURTYARD IMPROVEMENTS

UMBC Project No.: 23-126
 UMB Project No.: XXXX
 A/E Project No.: 17-0782.011
 GC/CM Project No.: XXXX



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 KIM ENGINEERING
- COST ESTIMATING
 FORELLA GROUP, LLC

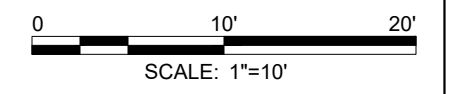
KEY PLAN

REV	DATE	DESCRIPTION
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	06/13/2023	SCHEMATIC DESIGN

DATE: 02/12/2024 SCALE: 1"=10'

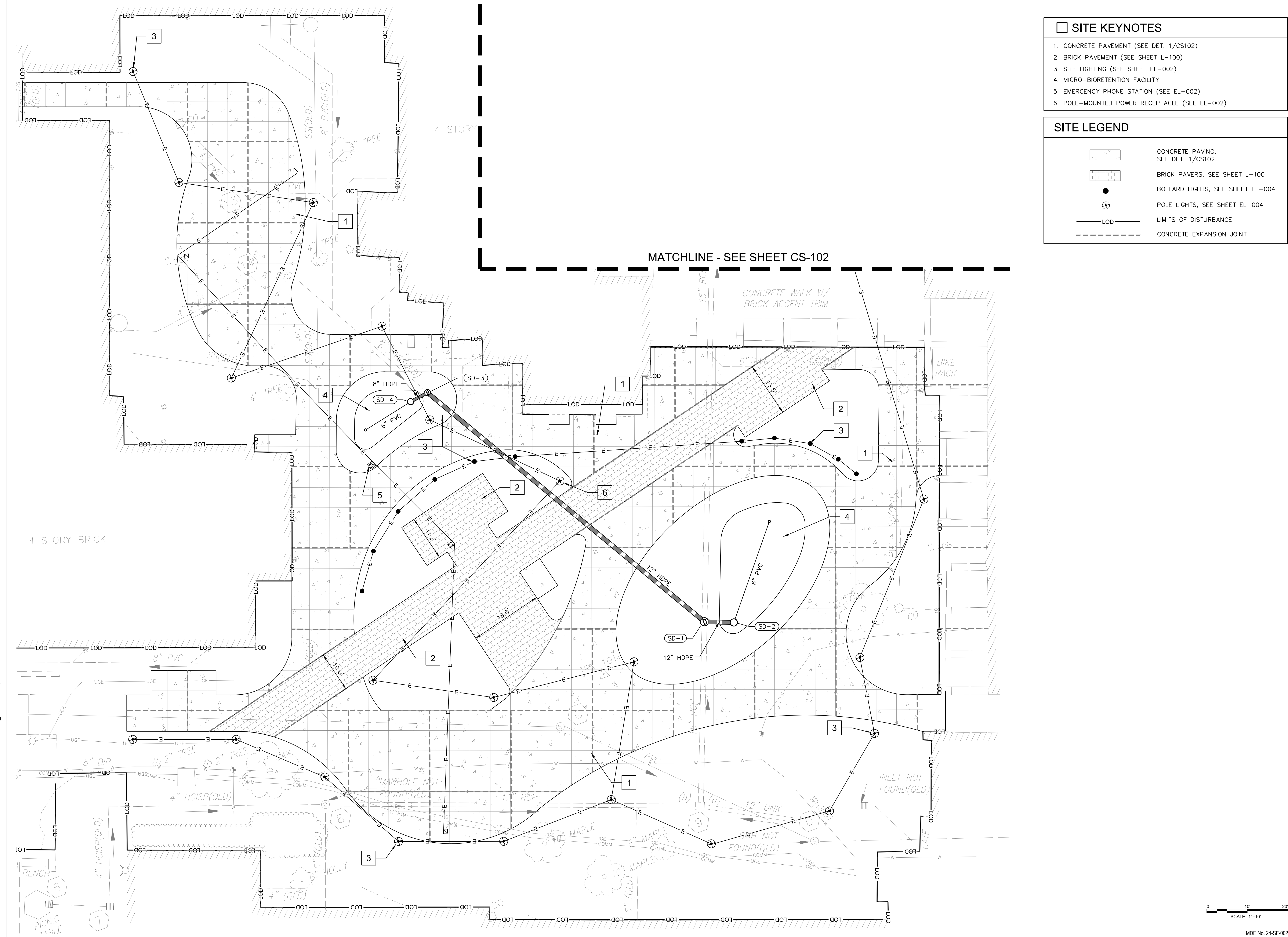
GRADING AND DRAINAGE PLAN 2

CG-102



MDE No. 24-SF-0026

MATCHLINE - SEE SHEET CG-101



SITE KEYNOTES

1. CONCRETE PAVING (SEE DET. 1/CS102)
2. BRICK PAVING (SEE SHEET L-100)
3. SITE LIGHTING (SEE SHEET EL-002)
4. MICRO-BIORETENTION FACILITY
5. EMERGENCY PHONE STATION (SEE EL-002)
6. POLE-MOUNTED POWER RECEPTACLE (SEE EL-002)

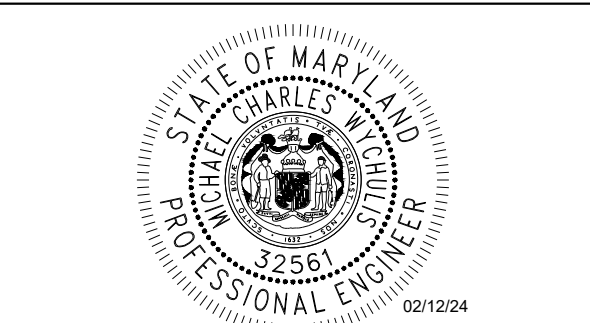
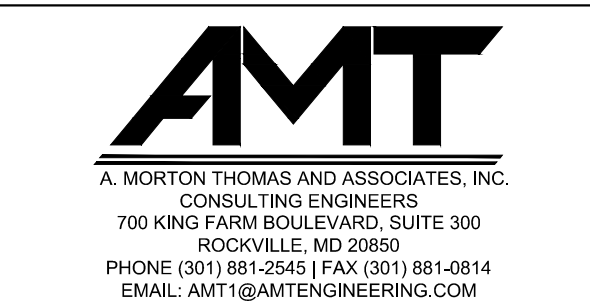
SITE LEGEND

- CONCRETE PAVING, SEE DET. 1/CS102
- BRICK PAVERS, SEE SHEET L-100
- BOLLARD LIGHTS, SEE SHEET EL-004
- POLE LIGHTS, SEE SHEET EL-004
- LIMITS OF DISTURBANCE
- CONCRETE EXPANSION JOINT



HARBOR HALL COURTYARD IMPROVEMENTS

UMBC Project No.: 23-126
 UMB Project No.: XXXX
 A/E Project No.: 17-0782.011
 GC/CM Project No.: XXXX



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FORELLA GROUP, LLC

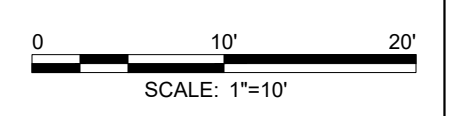
KEY PLAN

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	06/13/2023	SCHEMATIC DESIGN

DATE: 02/12/2024 SCALE: 1"=10'

SITE LAYOUT PLAN

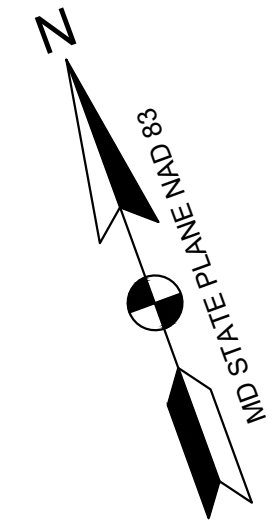
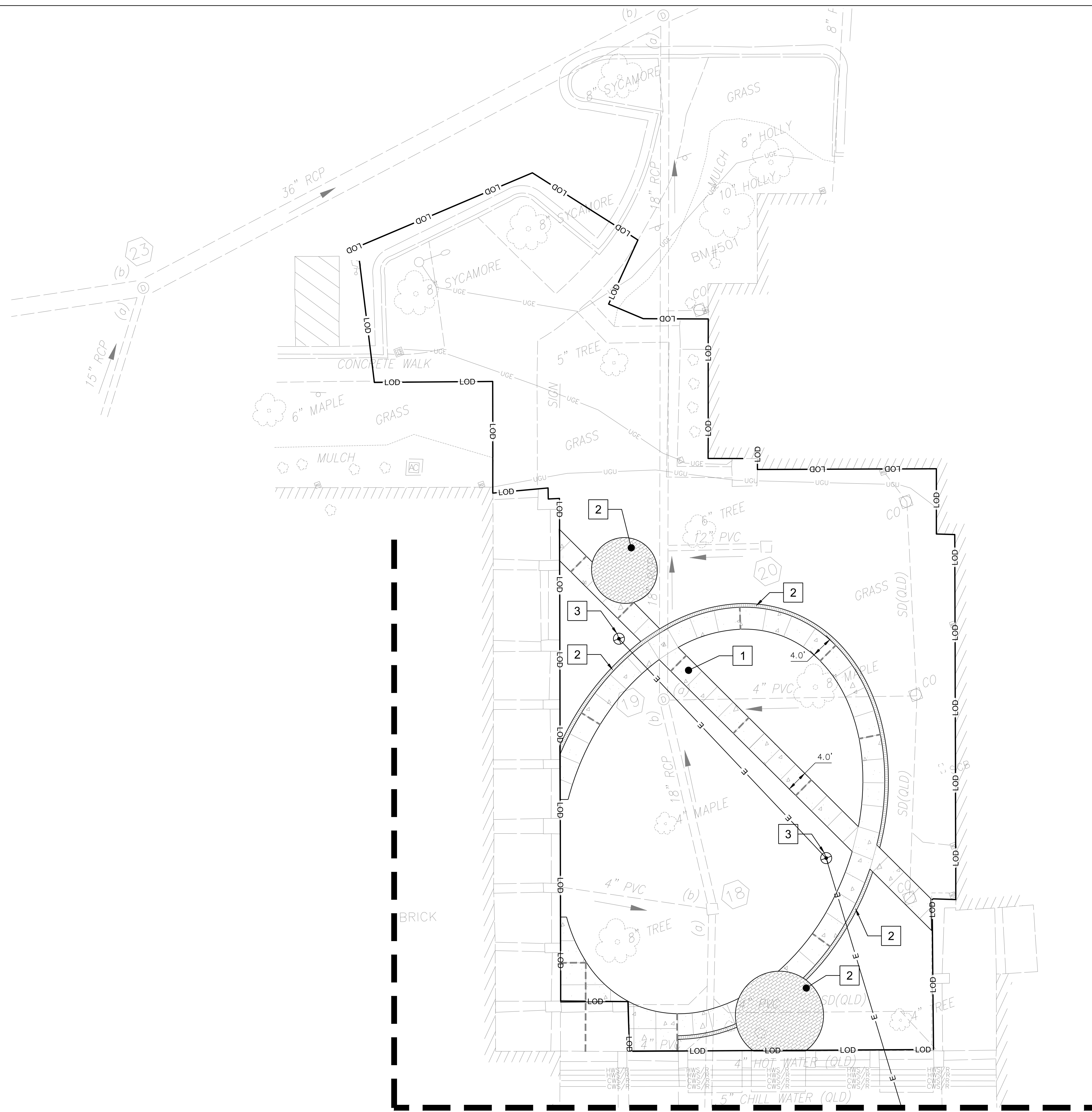
CS-101



MDE No. 24-SF-0026

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REV	DATE	DESCRIPTION
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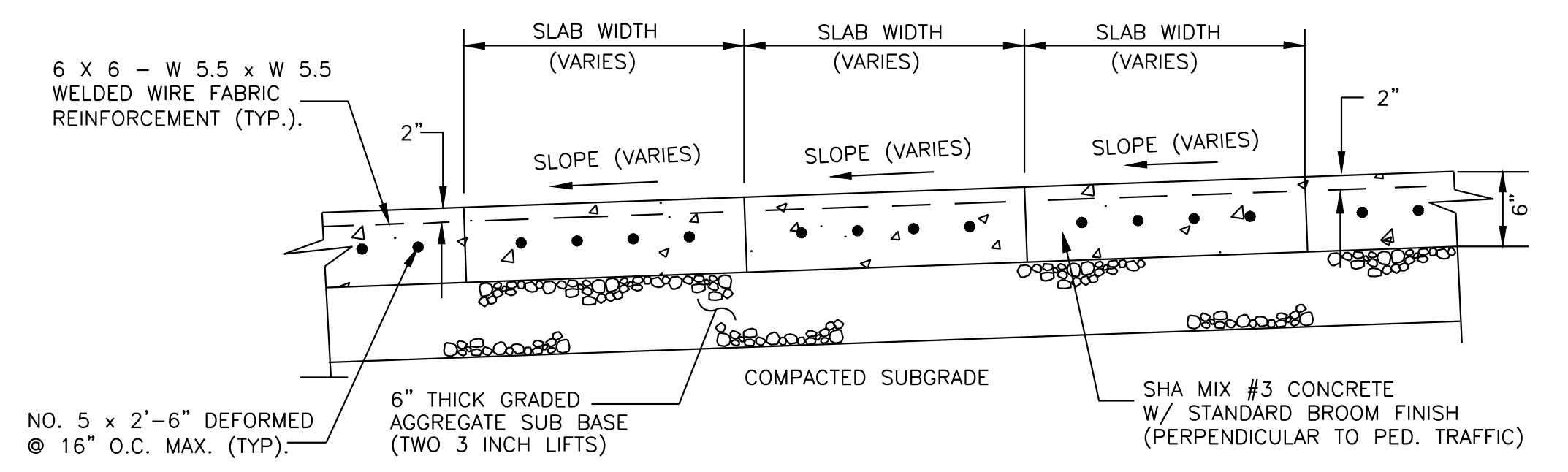


SITE KEYNOTES

1. NEW CONCRETE PAVEMENT, SEE DET. 1 BELOW
2. NEW BRICK PAVEMENT (SEE SHEET L-100)
3. SITE LIGHTING (SEE SHEET EL-002)

SITE LEGEND

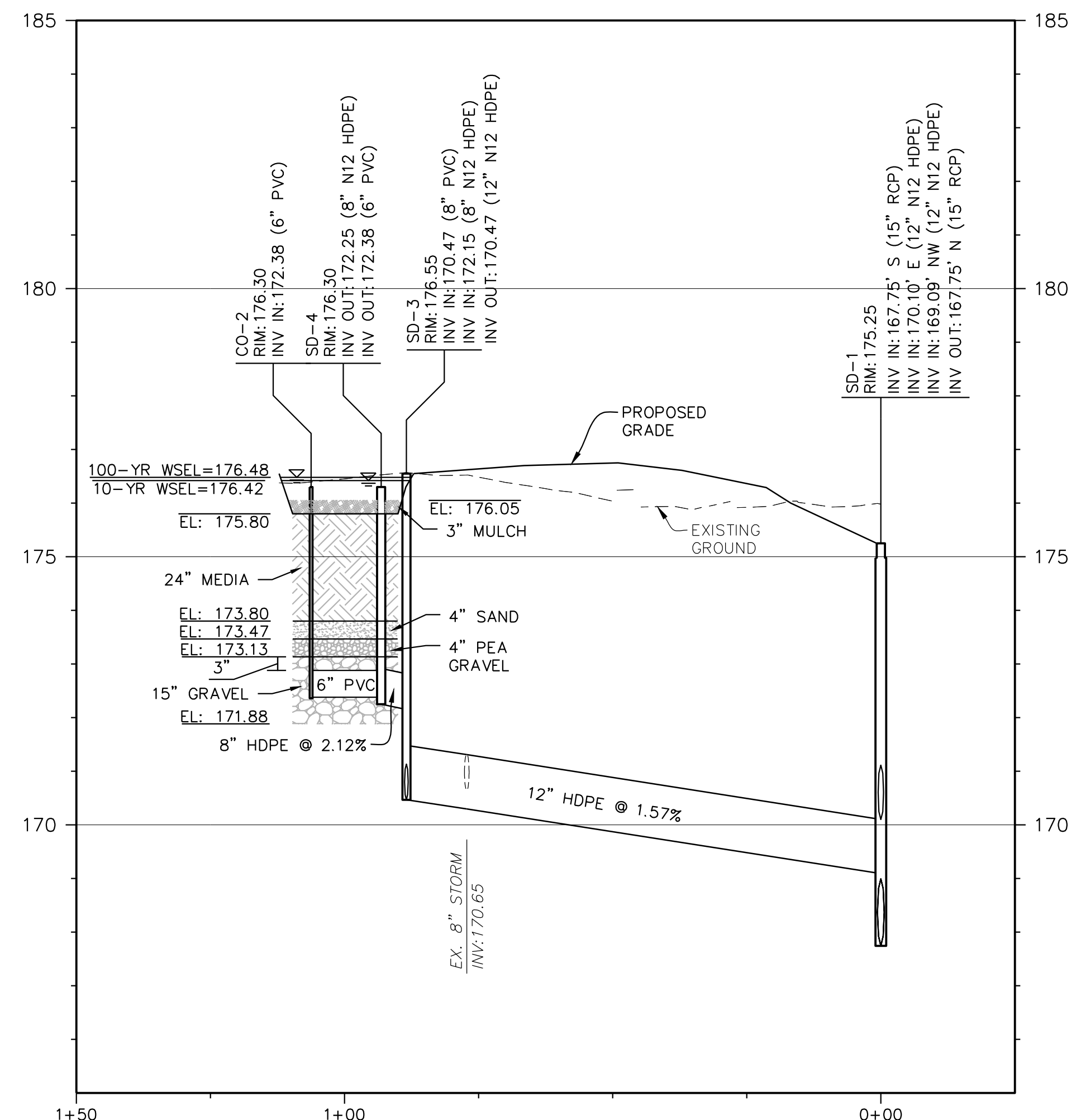
- CONCRETE PAVING, SEE DET. 1 BELOW
- BRICK PAVERS, SEE SHEET L-100
- BRICK PAVER BAND, SEE SHEET L-100
- POLE LIGHTS, SEE SHEET EL-004
- LIMITS OF DISTURBANCE
- CONCRETE EXPANSION JOINT



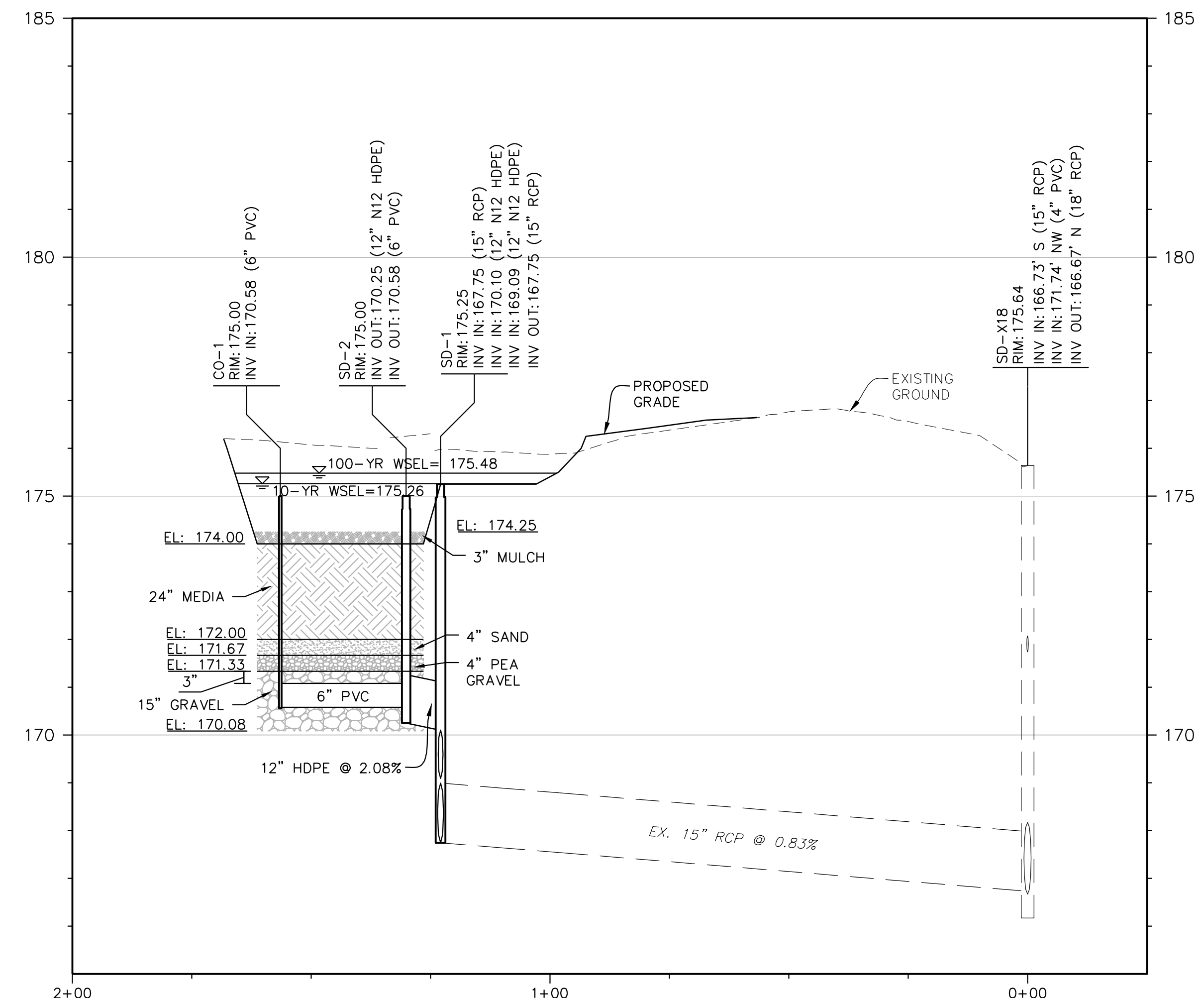
NOTES:

1. No. 5 x 2'-6" DEFORMED TIE BARS @ 16" O.C.
2. JOINT WIDENING AND JOINT SEALANT REQUIRED AT ALL JOINTS, SEE SPECIFICATIONS.
3. CONTRACTOR TO PROVIDE SHOP DRAWING WITH JOINT LAYOUT, ELEVATIONS AND SURFACE FINISH DETAILS.
4. MAXIMUM CONTINUOUS SLAB AREA NOT TO EXCEED 400 SQ. FT. MAXIMUM SLAB DIMENSION RATIO NOT TO EXCEED 2:1.

1 CONCRETE PAVING SCALE: INTS



STORM - SWM-2 TO SD-1
 SCALE: HORZ 1"=20'
 VERT 1"=2'

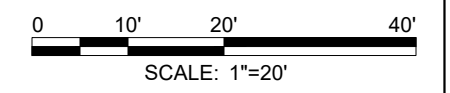


STORM - SWM-1 TO SD-X18
 SCALE: HORZ 1"=20'
 VERT 1"=2'

KEY PLAN

REV	DATE	DESCRIPTION
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DATE: 02/12/2024 SCALE: 1"=20'



SCALE: 1"=20'

STORM DRAIN PROFILES

HARBOR HALL COURTYARD IMPROVEMENTS

UMBC Project No.: 23-126
 UMB Project No.: XXXX
 A/E Project No.: 17-0782.011
 GC/CM Project No.: XXXX



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. 32561, Expiration Date: 01/06/2026

Michael C. Wjahnke

100% CONSTRUCTION DOCUMENTS

CONSULTANTS

- LANDSCAPE ARCHITECTURE
 FLOURA TEETER LANDSCAPE ARCHITECTS
- ELECTRICAL ENGINEERING
 WFT ENGINEERING, INC.
- GEOTECHNICAL SERVICES
 KIM ENGINEERING
- COST ESTIMATING
 FORELLA GROUP, LLC

KEY PLAN

REV	DATE	DESCRIPTION
		RECORD SET
		AS-BUILT / CONFORMING SET
	02/12/2024	100% CONSTRUCTION SET
	12/08/2023	90% CONSTRUCTION SET
	10/28/2023	50% CONSTRUCTION SET
	08/24/2023	DESIGN DEVELOPMENT
	06/13/2023	SCHEMATIC DESIGN

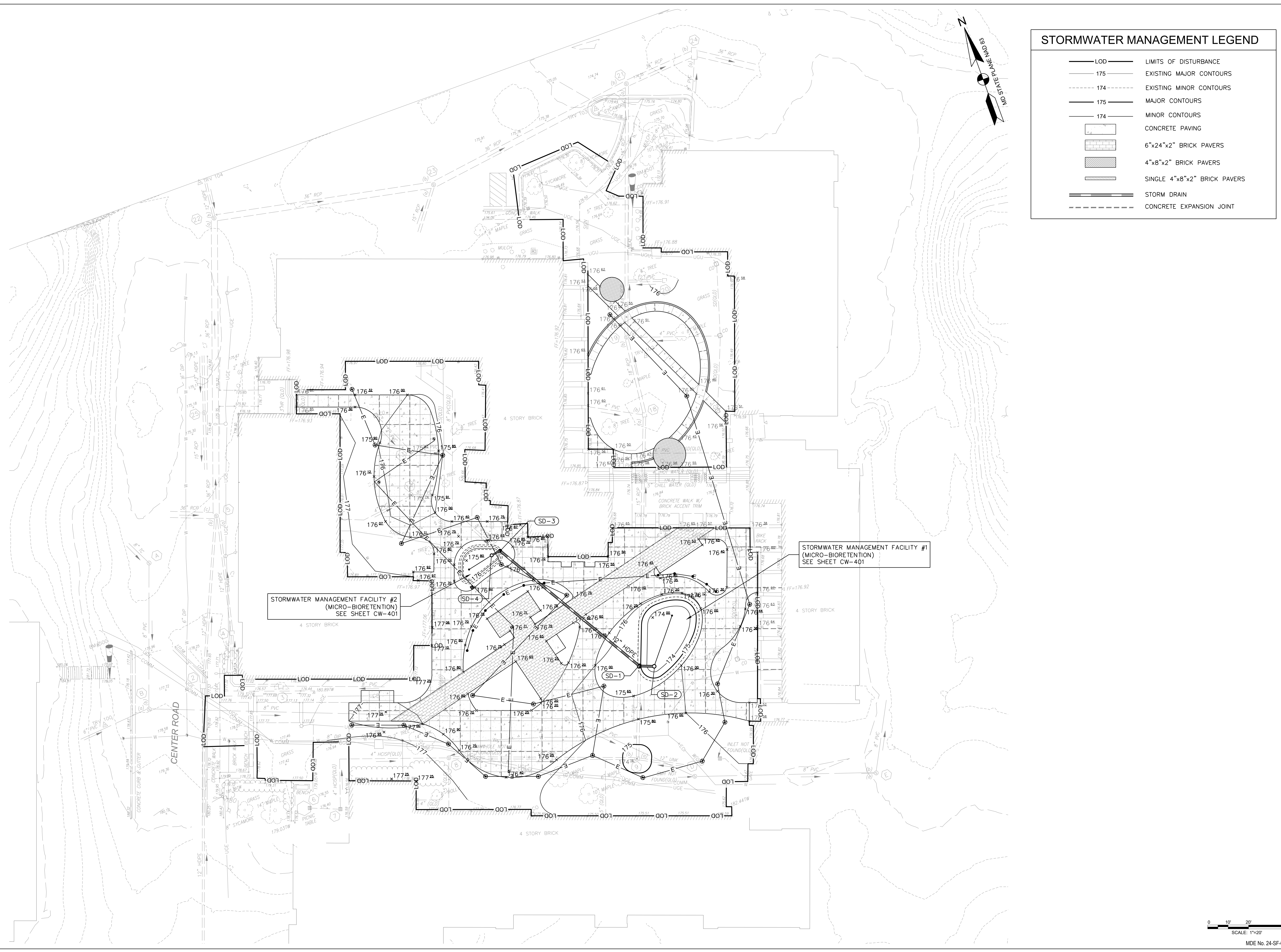
DATE: 02/12/2024 SCALE: 1"=20'

STORMWATER MANAGEMENT PLAN

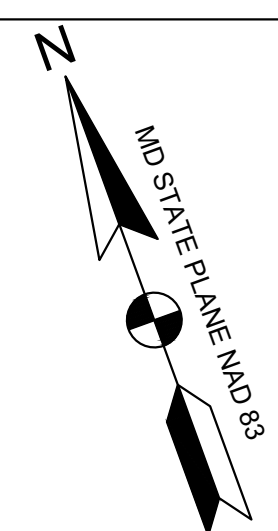
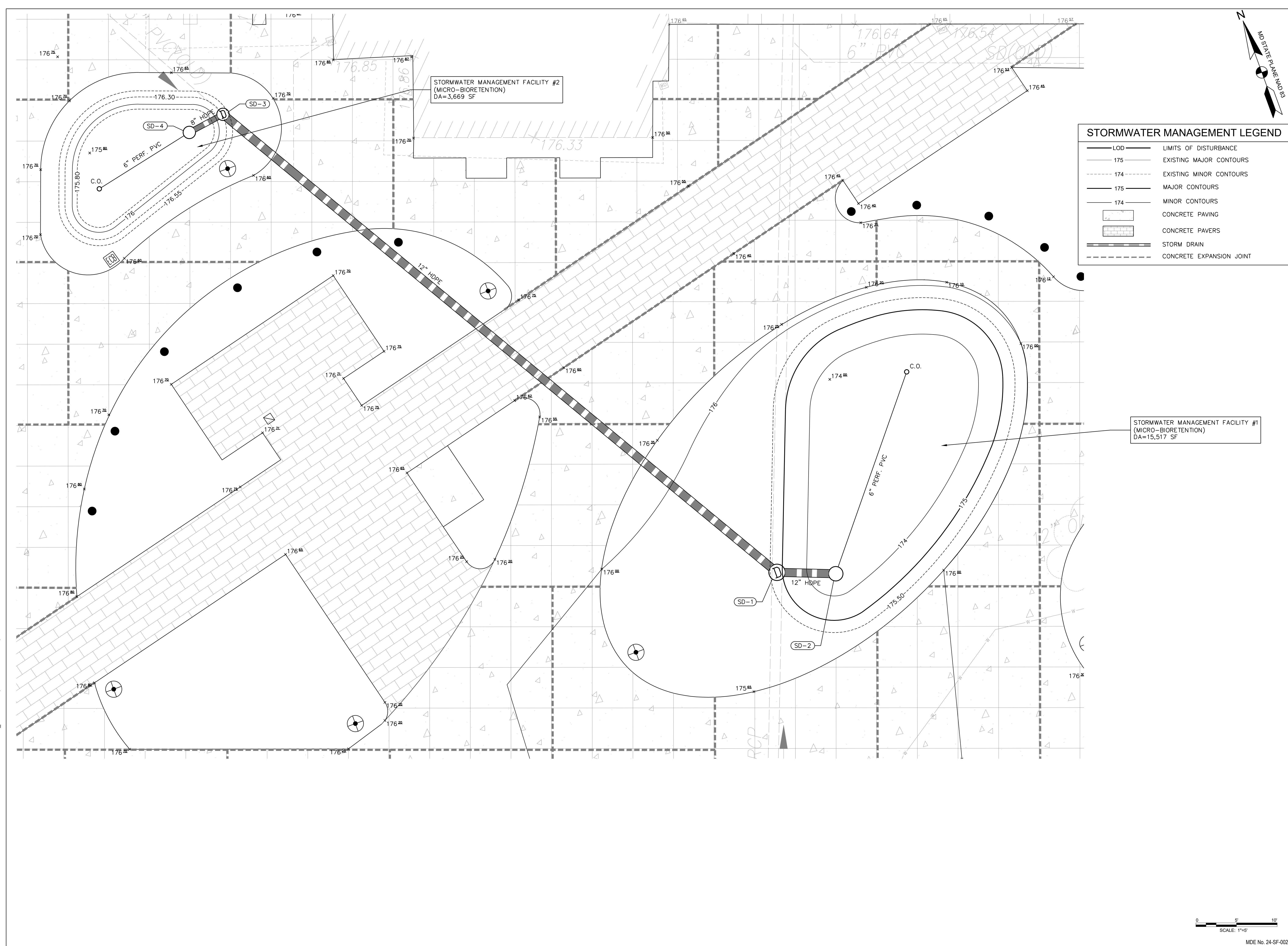
CW-101

STORMWATER MANAGEMENT LEGEND

- LOD — LIMITS OF DISTURBANCE
- 175 — EXISTING MAJOR CONTOURS
- - - 174 - - - EXISTING MINOR CONTOURS
- 175 — MAJOR CONTOURS
- 174 — MINOR CONTOURS
- [Pattern] CONCRETE PAVING
- [Pattern] 6"x24"x2" BRICK PAVERS
- [Pattern] 4"x8"x2" BRICK PAVERS
- [Pattern] SINGLE 4"x8"x2" BRICK PAVERS
- STORM DRAIN
- - - CONCRETE EXPANSION JOINT



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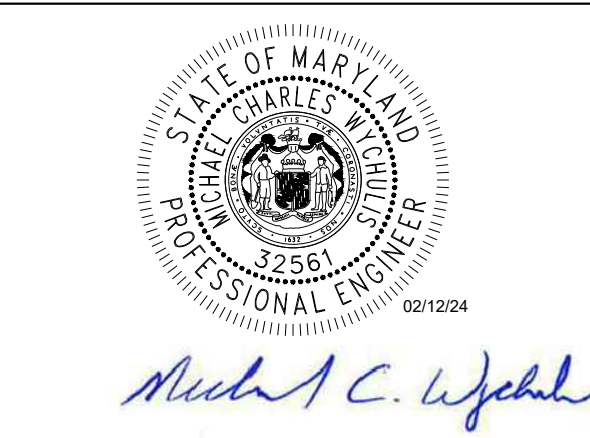
STORMWATER MANAGEMENT LEGEND

— LOD	— LIMITS OF DISTURBANCE
— 175	— EXISTING MAJOR CONTOURS
— 174	— EXISTING MINOR CONTOURS
— 175	— MAJOR CONTOURS
— 174	— MINOR CONTOURS
[Pattern]	— CONCRETE PAVING
[Pattern]	— CONCRETE PAVERS
[Line]	— STORM DRAIN
[Line]	— CONCRETE EXPANSION JOINT



HARBOR HALL COURTYARD IMPROVEMENTS

UMBC Project No.: 23-126
 UMB Project No.: XXXX
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 GC/CM Project No.: XXXX



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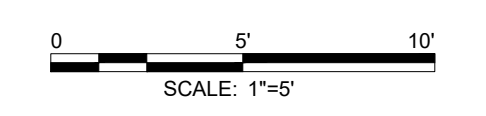
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REV	DATE	DESCRIPTION
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	12/08/2023	90% CONSTRUCTION SET
	10/28/2023	50% CONSTRUCTION SET
	08/24/2023	DESIGN DEVELOPMENT
	06/13/2023	SCHEMATIC DESIGN

DATE: 02/12/2024 SCALE: 1"=5'

STORMWATER MANAGEMENT ENLARGEMENTS

CW-401



MDE No. 24-SF-0026

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LEGEND:

⊙	STORM MANHOLE
□	ROOF DRAIN
■	YARD INLET
⊕	ELECTRIC JUNCTION BOX
⊖	LIGHT POLE
⊙	GROUND LIGHT
⊙	LAMP
⊕	EMERGENCY CALL BOX
⊙	COMMUNICATION MANHOLE
⊙	SANITARY SEWER MANHOLE
□	CLEAN OUT
⊕	WATER VALVE
⊕	FIRE HYDRANT
⊕	SPRINKLER CONTROL BOX
⊕	SIAMESE CONNECTION
⊕	STORMWATER UTILITY
⊕	UNKNOWN UTILITY
⊕	TRAVERSE
⊕	BENCHMARK
—	CURB AND GUTTER
W	UNDERGROUND WATERLINE PAINT
COMM	UNDERGROUND COMMUNICATION LINE PAINT
UGU	UNDERGROUND UNKNOWN LINE PAINT
UGE	UNDERGROUND ELECTRIC PAINT
CWS/R	CHILL WATER SERVICE AND RETURN LINE
HWS/R	HOT WATER SERVICE AND RETURN LINE
- - -	BUILDING OVERHANG
EOI	END OF (QLB) INFORMATION
Ur	SOIL TYPE
- - -	EXISTING 1' CONTOUR
- - -	EXISTING 5' CONTOUR
- - -	STORMWATER UTILITY
▨	EXISTING BUILDING
▨	STEEP SLOPES (15% OR GREATER)
⊕	EX. TREE AND CRITICAL ROOT ZONE



HARBOR HALL COURTYARD IMPROVEMENTS

UMBC Project No.: 23-126
 UMB Project No.: XXXX
 A/E Project No.: 17-0782.011
 GC/CM Project No.: XXXX



A. MORTON THOMAS AND ASSOCIATES, INC.
 CONSULTING ENGINEERS
 700 KING FARM BOULEVARD, SUITE 300
 ROCKVILLE, MD 20850
 PHONE (301) 881-2545 | FAX (301) 881-0814
 EMAIL: AMT@AMTEngineering.COM



PROFESSIONAL CERTIFICATION
 I HEREBY CERTIFY THAT THESE DOCUMENTS WERE PREPARED OR APPROVED BY ME, AND THAT I AM A DULY LICENSED PROFESSIONAL LANDSCAPE ARCHITECT UNDER THE LAWS OF THE STATE OF MARYLAND, LICENSE NO. 3381, EXPIRATION DATE 10/22/2024

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 FLORA TEETER LANDSCAPE ARCHITECTS

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GEOTECHNICAL SERVICES
 KIM ENGINEERING

COST ESTIMATING
 FORELLA GROUP, LLC

TREE TABLE

NO.	COMMON NAME	SCIENTIFIC NAME	D.B.H. (INCHES)	CRZ RADIUS (FEET)	CONDITION RATING	CONDITION COMMENTS
T01	Serviceberry	<i>Amelanchier arborea</i>	7	10.50	GOOD/AVG.	3, 2.5, 3, 2.5, 1, 2, 2, 1, 1.5: English ivy on lower trunk
T02	Serviceberry	<i>Amelanchier arborea</i>	6	9.00	GOOD/AVG.	2.5, 2, 2, 2, 2.5, 2.5, 1, 1.5, 1.5, 1.5 English ivy on trunk
T03	Serviceberry	<i>Amelanchier arborea</i>	8	12.00	GOOD/AVG.	1.5, 2, 1.5, 2, 1, 2.5, 3, 1: English ivy on lower trunk
T04	Willow oak	#N/A	16	24.00	GOOD/AVG.	Crowded, some dead branches
T05	Red maple	<i>Acer rubrum</i>	7	10.50	GOOD/AVG.	English ivy on trunk
T06	Saucer magnolia	<i>Magnolia x soulangeae</i>	8	12.00	GOOD/AVG.	3.5, 4, 6 epicormic growth
T07	Saucer magnolia	<i>Magnolia x soulangeae</i>	4	6.00	GOOD/AVG.	2.5, 2.5 shaded canopy
T08	Saucer magnolia	<i>Magnolia x soulangeae</i>	5	7.50	AVG/POOR	2.5, 2.5, 4 in decline
T09	Honeylocust	<i>Gleditsia triacanthos</i>	6	9.00	POOR	Limited soil volume, in decline
T10	Honeylocust	<i>Gleditsia triacanthos</i>	6	9.00	POOR	Limited soil volume, in decline
T11	Honeylocust	<i>Gleditsia triacanthos</i>	5	7.50	POOR	Limited soil volume, in decline
T12	Honeylocust	<i>Gleditsia triacanthos</i>	6	9.00	POOR	Limited soil volume, in decline
T13	Honeylocust	<i>Gleditsia triacanthos</i>	6.5	9.75	POOR	Limited soil volume, in decline
T14	Honeylocust	<i>Gleditsia triacanthos</i>	7	10.50	POOR	Limited soil volume, in decline
T15	Honeylocust	<i>Gleditsia triacanthos</i>	6	9.00	POOR	Limited soil volume, in decline
T16	Honeylocust	<i>Gleditsia triacanthos</i>	8	12.00	AVG.	Limited soil volume, in decline
T17	Honeylocust	<i>Gleditsia triacanthos</i>	6.5	9.75	POOR	Limited soil volume, in decline
T18	Serviceberry	<i>Amelanchier arborea</i>	3	4.50	GOOD/AVG.	English ivy on trunk
T19	Serviceberry	<i>Amelanchier arborea</i>	5	7.50	GOOD/AVG.	3, 1.5, 1.5, 3.5 English ivy on trunk
T20	Black gum	<i>Nyssa sylvatica</i>	8	12.00	AVG.	Stunted growth, die back
T21	Serviceberry	<i>Amelanchier arborea</i>	4	6.00	GOOD/AVG.	1.5, 1, 2, 2, 2, 1 English ivy at base
S7-08	Sugar maple	<i>Acer saccharum</i>	15.5	23.25	AVG.	English ivy on trunk, wound in upper trunk
S7-09	London planetree	<i>Platanus x acerifolia</i>	7.5	11.25	GOOD/AVG.	Crowded canopy, epicormic growth
S7-15	Willow oak	<i>Quercus phellos</i>	16	24.00	GOOD/AVG.	English ivy at base
S7-16	Burford Holly	<i>Ilex cornuta 'Burfordii'</i>	11	16.50	AVG.	6, 8, 5 English ivy at base
S7-17	Burford Holly	<i>Ilex cornuta 'Burfordii'</i>	9	13.50	GOOD/AVG.	4, 8, 2.5 English ivy at base
S7-18	Red maple	<i>Acer rubrum</i>	9.5	14.25	GOOD/AVG.	English ivy at base
S7-19	Red maple	<i>Acer rubrum</i>	9.5	14.25	GOOD/AVG.	English ivy on trunk
S7-20	Red maple	<i>Acer rubrum</i>	8.5	12.75	GOOD/AVG.	Tip die back
S7-26	Honeylocust	<i>Gleditsia triacanthos</i>	6	9.00	POOR	Limited soil volume, in decline
S7-27	Willow oak	<i>Quercus phellos</i>	12	18.00	AVG.	Epicormic growth
S7-29	Saucer magnolia	<i>Magnolia x soulangeae</i>	9	13.50	GOOD	4, 4, 4.5, 3, 3, 1, 1, 1
S7-32	Saucer magnolia	<i>Magnolia x soulangeae</i>	10	15.00	GOOD/AVG.	5, 6.5, 1, 1.5, 4, 4, English ivy on trunk
S7-33	Saucer magnolia	<i>Magnolia x soulangeae</i>	8	12.00	GOOD/AVG.	4.5, 4.5, 4.5, 1, 1 English ivy on trunk
S7-34	Honeylocust	<i>Gleditsia triacanthos</i>	6	9.00	POOR	Limited soil volume, in decline
S7-142	Nonway maple	<i>Acer platanoides</i>	5	7.50	GOOD	'Crimson King'
S8-01	Honeylocust	<i>Gleditsia triacanthos</i>	6	9.00	POOR	Limited soil volume, in decline
S8-05	Willow oak	<i>Quercus phellos</i>	11.5	17.25	GOOD	
S8-10	Red maple	<i>Acer rubrum</i>	5	7.50	GOOD/AVG.	Some tip die back
S8-13	Saucer magnolia	<i>Magnolia x soulangeae</i>	5	7.50	GOOD/AVG.	1.5, 1.5, 5 English ivy at base
S8-16	Red maple	<i>Acer rubrum</i>	7	10.50	GOOD/AVG.	Some tip die back
S8-17	Japanese maple	<i>Acer palmatum</i>	6	9.00	GOOD	4, 5
S8-18	Black gum	<i>Nyssa sylvatica</i>	6.5	9.75	AVG.	Stunted growth
S8-19	Black gum	<i>Nyssa sylvatica</i>	6.5	9.75	AVG.	Stunted growth, insect eating leaves
S8-20	Foster's holly	<i>Ilex x attenuata</i>	7.5	11.25	GOOD	
S8-21	Foster's holly	<i>Ilex x attenuata</i>	9	13.50	GOOD	4.5, 6
S8-23	London planetree	<i>Platanus x acerifolia</i>	5.5	8.25	AVG/POOR	Epicormic growth, dead branch, in decline
S8-24	London planetree	<i>Platanus x acerifolia</i>	5	7.50	POOR	In decline
S8-25	London planetree	<i>Platanus x acerifolia</i>	5.5	8.25	AVG/POOR	In decline
S8-26	London planetree	<i>Platanus x acerifolia</i>	5.5	8.25	AVG/POOR	In decline

* BOLD DENOTES SPECIMEN TREE

PROPERTY INFORMATION: (PROJECT LIMITS)

PARCEL NUMBER: 1372
 ACCOUNT NUMBER: 160005752
 LIBER/FOLIO: N/A / N/A
 TAX MAP: 0101
 MDE WATERSHED NUMBER: 02130906

NARRATIVE:

THE SITE IS BOUNDED BY THE CLEAR SPRING WATER RESERVOIR TO THE NORTH AND EAST, AND UNIVERSITY DEVELOPMENT TO THE SOUTH AND WEST. THE SITE CONSISTS OF A COURTYARD BETWEEN TWO UNIVERSITY RESIDENCE HALLS.

GENERAL NOTES:

- THE TOPOGRAPHY SHOWN ON THIS PLAN WITHIN THE WORK AREA IS FROM FIELD SURVEY COMPLETED BY AMT (FEBRUARY 2023) AND COUNTY GIS.
- THERE ARE NO FLOODPLAINS ON THIS SITE.
- THE SOURCE OF THE PROPERTY BOUNDARIES ON THIS PLAN IS BASED ON FIELD SURVEY COMPLETED BY AMT (FEBRUARY 2023).
- IN A LETTER DATED 07-10-2023, AMT RECEIVED CONFIRMATION FROM THE MARYLAND DEPARTMENT OF NATURAL RESOURCES NATURAL HERITAGE PROGRAM THAT THERE ARE NO KNOWN RARE, THREATENED, OR ENDANGERED SPECIES.
- THERE ARE NO SPECIMEN TREES LOCATED ON THE SUBJECT PROPERTY. THERE ARE NO SPECIMEN TREES LOCATED WITHIN 100' OF THE SUBJECT PROPERTY. THE TREE SURVEY WAS COMPLETED THROUGH FIELD INVESTIGATION.

SUMMARY TABLE (PROJECT LIMITS)

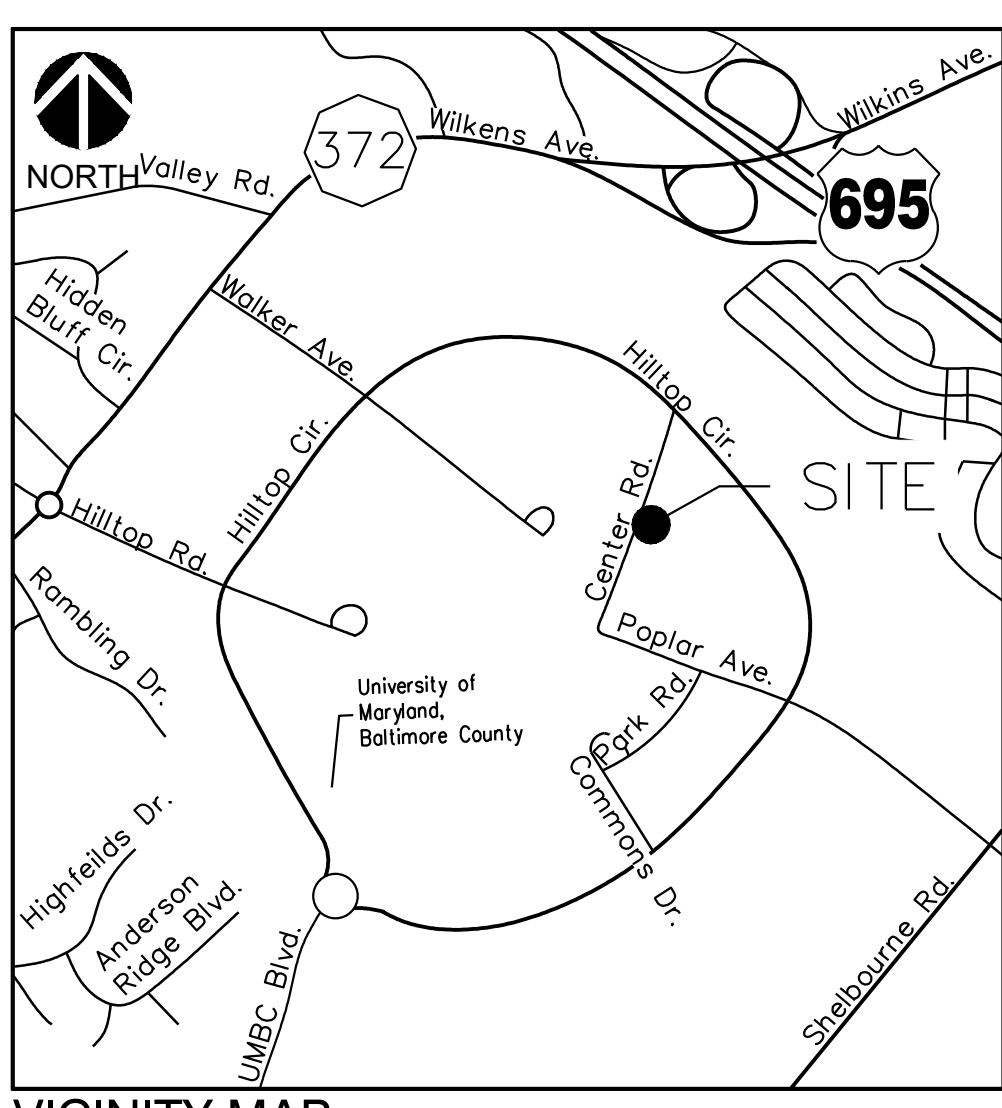
EXISTING FOREST	0.00 ACRES
WETLANDS	0.00 ACRES
FORESTED WETLANDS	0.00 ACRES
STREAM BUFFER	0.00 ACRES
FORESTED STREAM BUFFER	0.00 ACRES
100 YEAR FLOODPLAIN	0.00 ACRES
FORESTED 100 YEAR FLOODPLAIN	0.00 ACRES
LINEAR EXTENTS OF STREAMS	0 LF
AVERAGE WIDTH OF STREAM BUFFER	0 FEET

MAPPED SOIL TYPES

SYMBOL	DESCRIPTION	HYDRIC	HIGHLY ERODIBLE
Ur	Urban Land, 0 to 8 percent slopes	No	No

SOIL DESCRIPTIONS: (MAJOR COMPONENTS ONLY)

Ur—Urban Land, 0-8% SLOPES: GENERATED BRIEF SOIL DESCRIPTIONS ARE CREATED FOR MAJOR SOIL COMPONENTS. THE URBAN LAND IS A MISCELLANEOUS AREA.



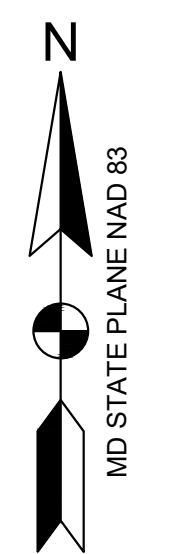
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REV	DATE	DESCRIPTION
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	02/12/2024	100% CONSTRUCTION SET
	10/28/2023	50% CONSTRUCTION SET
	08/24/2023	DESIGN DEVELOPMENT
	06/13/2023	SCHEMATIC DESIGN

DATE: 02/12/2024 SCALE: ZZZZ

FOREST STAND DELINEATION

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LEGEND:

- ⊗ STORM MANHOLE
- ROOF DRAIN
- YARD INLET
- ▢ ELECTRIC JUNCTION BOX
- LIGHT POLE
- ⊕ GROUND LIGHT
- ⊙ LAMP
- ⊕ EMERGENCY CALL BOX
- ⊗ COMMUNICATION MANHOLE
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- EOI --- BUILDING OVERHANG
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- ⊕ EXISTING BUILDING
- STEEP SLOPES (15% OR GREATER)
- ⊕ EX. TREE AND CRITICAL ROOT ZONE

UMBC

HARBOR HALL COURTYARD IMPROVEMENTS

UMBC Project No.: 23-126	
UMB Project No.: XXXX	
A/E Project No.: 17-0782.011	
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AMT

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EMAIL: AMT@AMTENGINEERING.COM

9/07/2023

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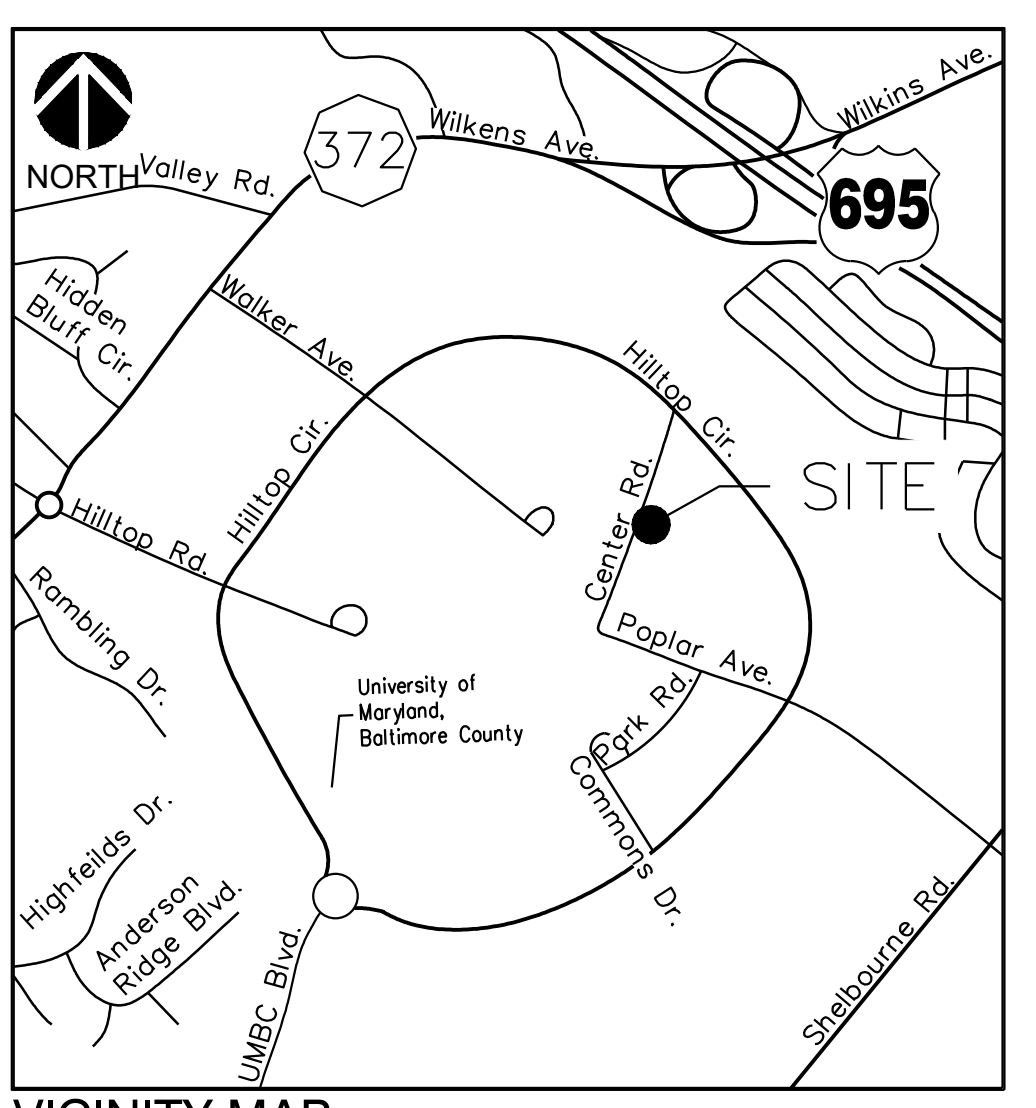
SUMMARY TABLE (PROJECT LIMITS)

EXISTING FOREST	0.00 ACRES
WETLANDS	0.00 ACRES
FORESTED WETLANDS	0.00 ACRES
STREAM BUFFER	0.00 ACRES
FORESTED STREAM BUFFER	0.00 ACRES
100 YEAR FLOODPLAIN	0.00 ACRES
FORESTED 100 YEAR FLOODPLAIN	0.00 ACRES
LINEAR EXTENTS OF STREAMS	0 LF
AVERAGE WIDTH OF STREAM BUFFER	0 FEET

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SYMBOL	DESCRIPTION	HYDRIC	HIGHLY ERODIBLE
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TREE TABLE

NO.	COMMON NAME	SCIENTIFIC NAME	D.B.H. (INCHES)	CRZ RADIUS (FEET)	CONDITION RATING	CONDITION COMMENTS
T01	Serviceberry	<i>Amelanchier arborea</i>	7	10.50	GOOD/AVG.	3, 2.5, 3, 2.5, 1, 2, 2, 1, 1.5: English ivy on lower trunk
T02	Serviceberry	<i>Amelanchier arborea</i>	6	9.00	GOOD/AVG.	2.5, 2, 2, 2, 2.5, 2.5, 1, 1.5, 1.5, 1.5 English ivy on trunk
T03	Serviceberry	<i>Amelanchier arborea</i>	8	12.00	GOOD/AVG.	1.5, 2, 1.5, 2, 1, 2.5, 3, 1: English ivy on lower trunk
T04	Willow oak	#N/A	16	24.00	GOOD/AVG.	Crowded, some dead branches
T05	Red maple	<i>Acer rubrum</i>	7	10.50	GOOD/AVG.	English ivy on trunk
T06	Saucer magnolia	<i>Magnolia x soulangeae</i>	8	12.00	GOOD/AVG.	3.5, 4, 6 epicormic growth
T07	Saucer magnolia	<i>Magnolia x soulangeae</i>	4	6.00	GOOD/AVG.	2.5, 2.5 shaded canopy
T08	Saucer magnolia	<i>Magnolia x soulangeae</i>	5	7.50	AVG/POOR	2.5, 2.5, 4 in decline
T09	Honeylocust	<i>Gleditsia triacanthos</i>	6	9.00	POOR	Limited soil volume, in decline
T10	Honeylocust	<i>Gleditsia triacanthos</i>	6	9.00	POOR	Limited soil volume, in decline
T11	Honeylocust	<i>Gleditsia triacanthos</i>	5	7.50	POOR	Limited soil volume, in decline
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T13	Honeylocust	<i>Gleditsia triacanthos</i>	6.5	9.75	POOR	Limited soil volume, in decline
T14	Honeylocust	<i>Gleditsia triacanthos</i>	7	10.50	POOR	Limited soil volume, in decline
T15	Honeylocust	<i>Gleditsia triacanthos</i>	6	9.00	POOR	Limited soil volume, in decline
T16	Honeylocust	<i>Gleditsia triacanthos</i>	8	12.00	AVG.	Limited soil volume, in decline
T17	Honeylocust	<i>Gleditsia triacanthos</i>	6.5	9.75	POOR	Limited soil volume, in decline
T18	Serviceberry	<i>Amelanchier arborea</i>	3	4.50	GOOD/AVG.	English ivy on trunk
T19	Serviceberry	<i>Amelanchier arborea</i>	5	7.50	GOOD/AVG.	3, 1.5, 1.5, 3.5 English ivy on trunk
T20	Black gum	<i>Nyssa sylvatica</i>	8	12.00	AVG.	Stunted growth, die back
T21	Serviceberry	<i>Amelanchier arborea</i>	4	6.00	GOOD/AVG.	1.5, 1, 2, 2, 2, 1 English ivy at base
S7-08	Sugar maple	<i>Acer saccharum</i>	15.5	23.25	AVG.	English ivy on trunk, wound in upper trunk
S7-09	London planetree	<i>Platanus x acerifolia</i>	7.5	11.25	GOOD/AVG.	Crowded canopy, epicormic growth
S7-15	Willow oak	<i>Quercus phellos</i>	16	24.00	GOOD/AVG.	English ivy at base
S7-16	Burford Holly	<i>Ilex comuta 'Burfordii'</i>	11	16.50	AVG.	6, 8, 5 english ivy at base
S7-17	Burford Holly	<i>Ilex comuta 'Burfordii'</i>	9	13.50	GOOD/AVG.	4, 8, 2.5 English ivy at base
S7-18	Red maple	<i>Acer rubrum</i>	9.5	14.25	GOOD/AVG.	English ivy at base
S7-19	Red maple	<i>Acer rubrum</i>	9.5	14.25	GOOD/AVG.	English ivy on trunk
S7-20	Red maple	<i>Acer rubrum</i>	8.5	12.75	GOOD/AVG.	Tip die back
S7-26	Honeylocust	<i>Gleditsia triacanthos</i>	6	9.00	POOR	Limited soil volume, in decline
S7-27	Willow oak	<i>Quercus phellos</i>	12	18.00	AVG.	Epicormic growth
S7-29	Saucer magnolia	<i>Magnolia x soulangeae</i>	9	13.50	GOOD	4, 4, 4.5, 3, 3, 1, 1, 1
S7-32	Saucer magnolia	<i>Magnolia x soulangeae</i>	10	15.00	GOOD/AVG.	5, 6.5, 1, 1.5, 4, 4, 1 english ivy on trunk
S7-33	Saucer magnolia	<i>Magnolia x soulangeae</i>	8	12.00	GOOD/AVG.	4.5, 4.5, 4.5, 1, 1 English ivy on trunk
S7-34	Honeylocust	<i>Gleditsia triacanthos</i>	6	9.00	POOR	Limited soil volume, in decline
S7-142	Nonway maple	<i>Acer platanoides</i>	5	7.50	GOOD	'Crimson King'
S8-01	Honeylocust	<i>Gleditsia triacanthos</i>	6	9.00	POOR	Limited soil volume, in decline
S8-05	Willow oak	<i>Quercus phellos</i>	11.5	17.25	GOOD	
S8-10	Red maple	<i>Acer rubrum</i>	5	7.50	GOOD/AVG.	Some tip die back
S8-13	Saucer magnolia	<i>Magnolia x soulangeae</i>	5	7.50	GOOD/AVG.	1.5, 1.5, 5 english ivy at base
S8-16	Red maple	<i>Acer rubrum</i>	7	10.50	GOOD/AVG.	Some tip die back
S8-17	Japanese maple	<i>Acer palmatum</i>	6	9.00	GOOD	4, 5
S8-18	Black gum	<i>Nyssa sylvatica</i>	6.5	9.75	AVG.	Stunted growth
S8-19	Black gum	<i>Nyssa sylvatica</i>	6.5	9.75	AVG.	Stunted growth, insect eating leaves
S8-20	Foster's holly	<i>Ilex x attenuata</i>	7.5	11.25	GOOD	
S8-21	Foster's holly	<i>Ilex x attenuata</i>	9	13.50	GOOD	4, 5, 6
S8-23	London planetree	<i>Platanus x acerifolia</i>	5.5	8.25	AVG/POOR	Epicormic growth, dead branch, in decline
S8-24	London planetree	<i>Platanus x acerifolia</i>	5	7.50	POOR	In decline
S8-25	London planetree	<i>Platanus x acerifolia</i>	5.5	8.25	AVG/POOR	In decline
S8-26	London planetree	<i>Platanus x acerifolia</i>	5.5	8.25	AVG/POOR	In decline

* BOLD DENOTES SPECIMEN TREE

KEY PLAN

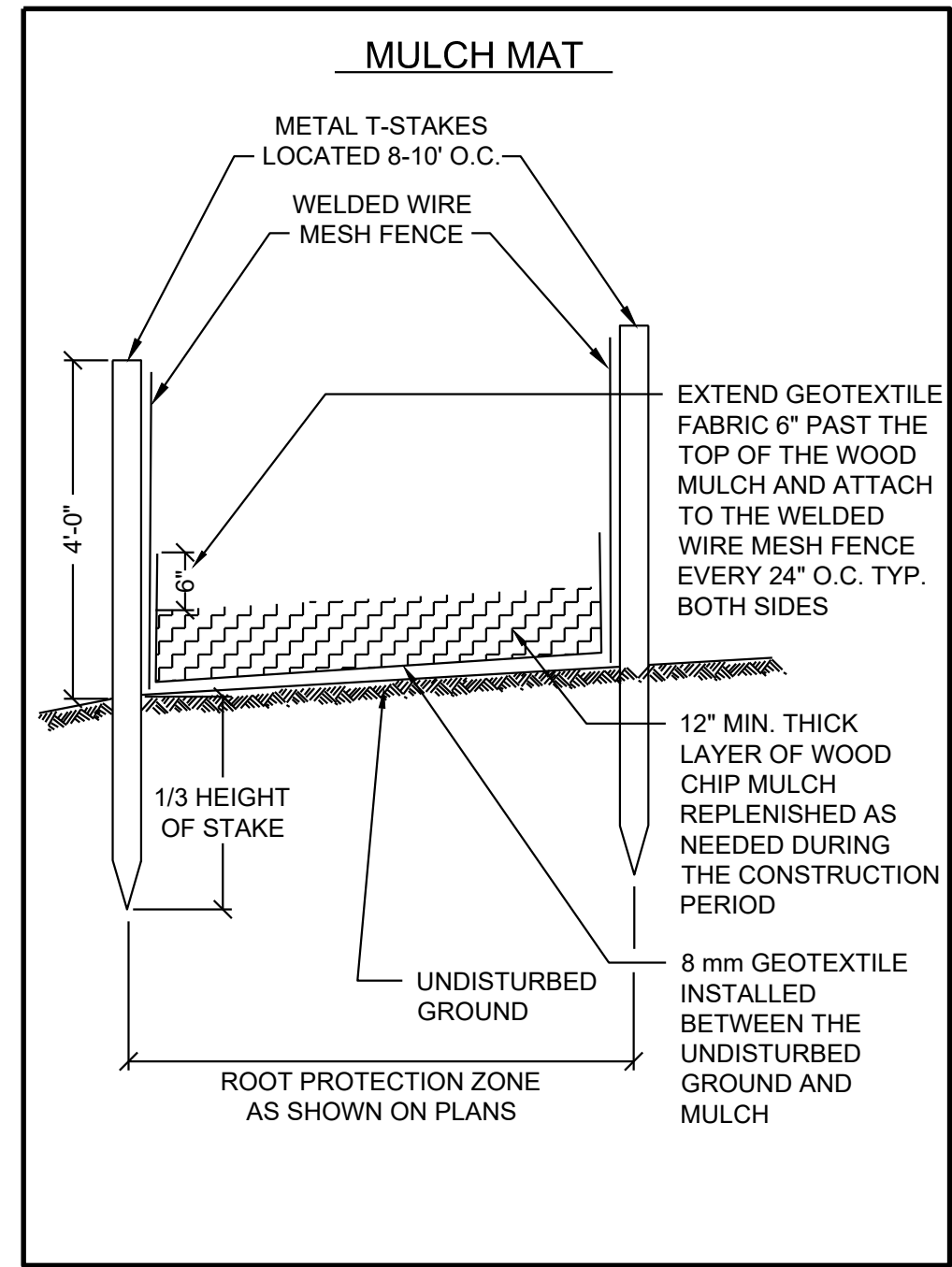
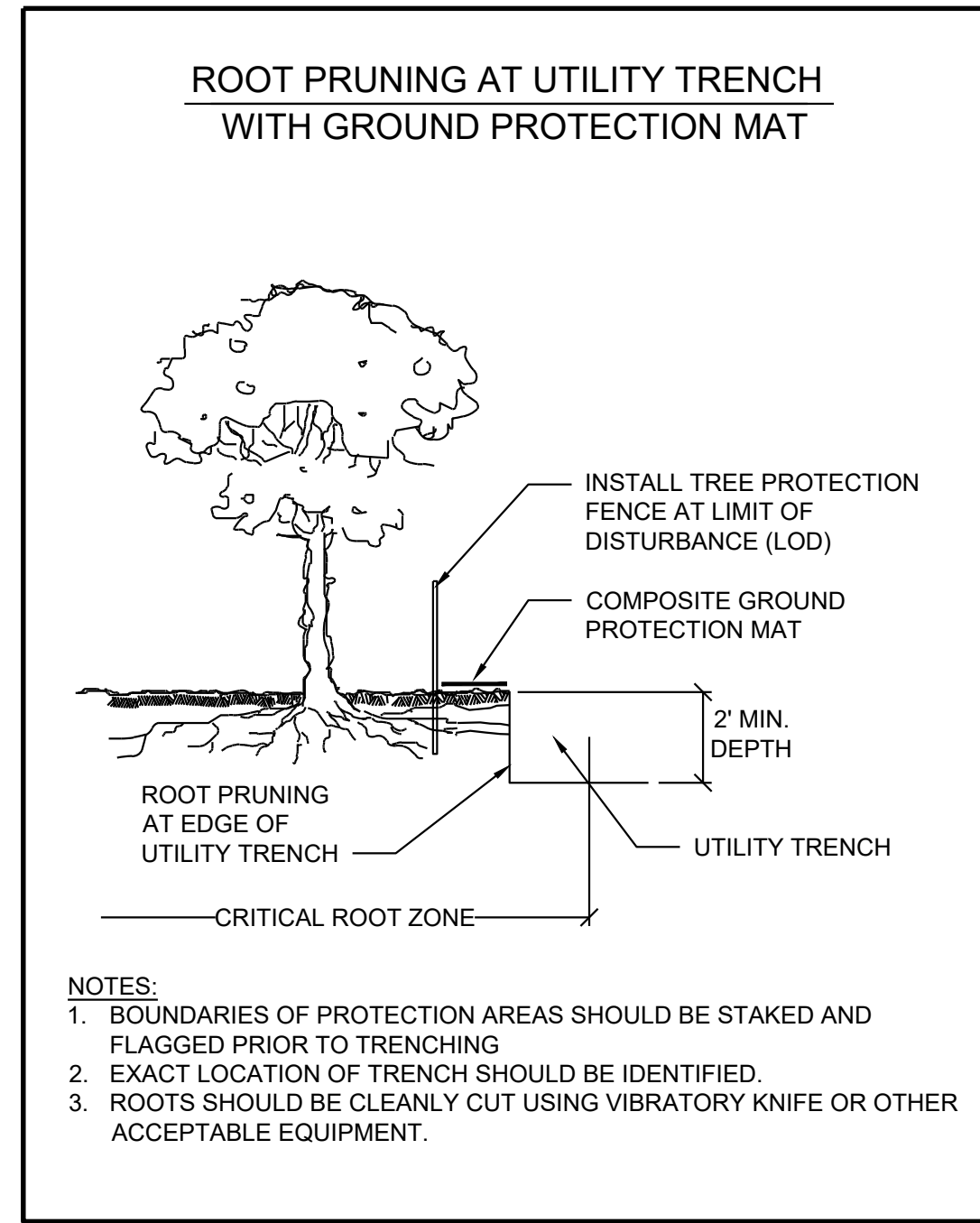
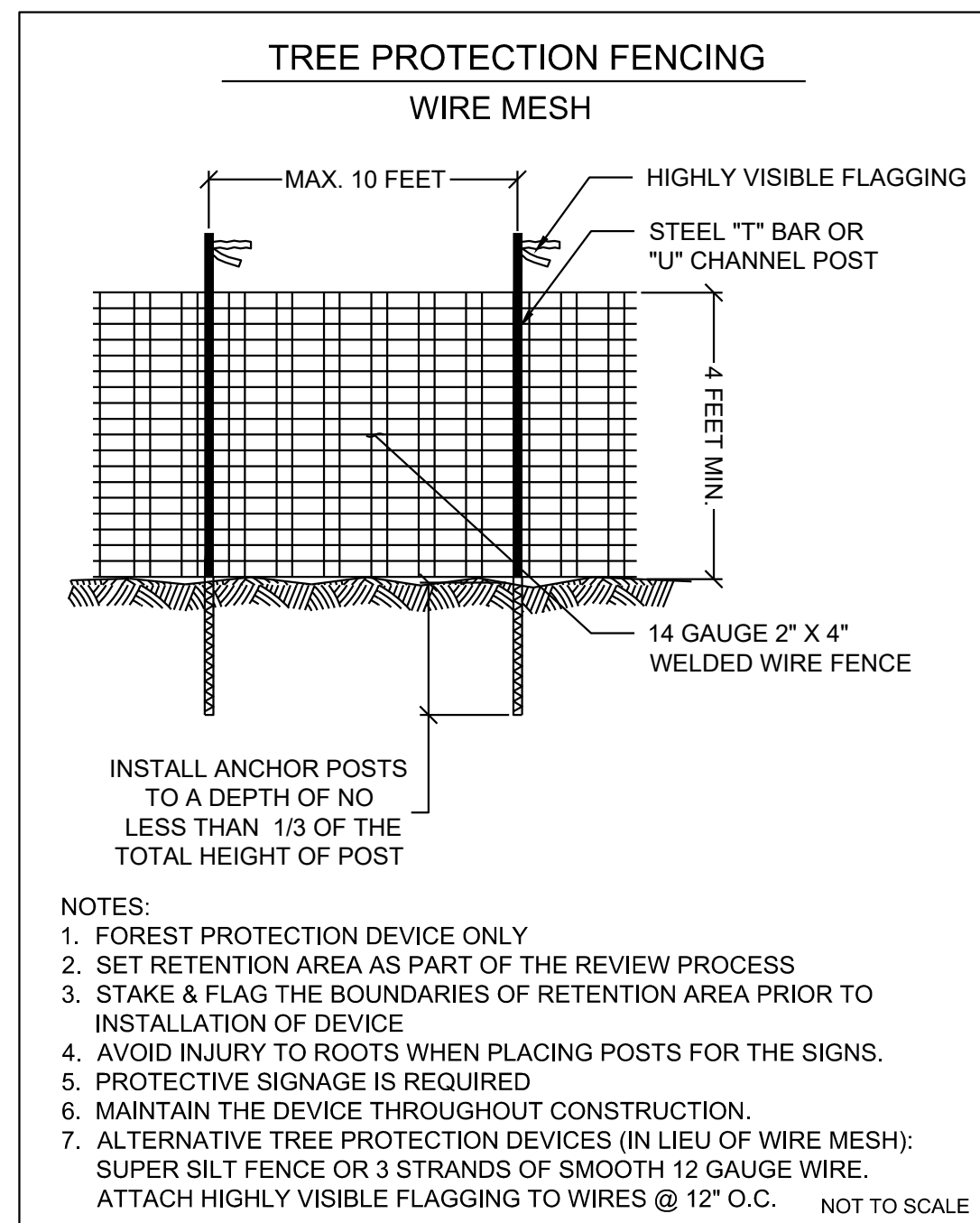
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	06/13/2023	SCHEMATIC DESIGN

DATE: 02/12/2024 SCALE: ZZZZ

TREE PROTECTION PLAN

MDE No. 24-SF-0026
LF-101

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TREE PROTECTION NOTES

- MULCH MAT IS REQUIRED AS NOTED, WHERE ANY FOOT OR VEHICLE TRAFFIC, OR MATERIAL STORAGE OCCURS.
- NO CONSTRUCTION EQUIPMENT PARKING, MATERIALS STORAGE, FOOT TRAFFIC, OR VEHICULAR TRAFFIC IS ALLOWED INSIDE OF TREE PROTECTION AREAS.
- ROOT PRUNE AS NOTED ON PLANS. CUT ROOTS WITH SHARP, CLEAN PRUNING INSTRUMENTS; DO NOT PULL, TEAR, BREAK OR CHOP. INSTALL COMPOSITE GROUND PROTECTION MATTING IN ROOT PROTECTION ZONE TO PROTECT REMAINING ROOTS INSIDE THE LIMIT OF DISTURBANCE. AFTER CONSTRUCTION IS COMPLETE, OWNER'S HORTICULTURE STAFF SHOULD MONITOR THE TREE FOR HEALTH, VIABILITY, AND VIGOR. FUTURE CORRECTIVE MEASURES AND PRESERVATION TREATMENTS SHOULD BE IMPLEMENTED AS DETERMINED BY OWNER'S HORTICULTURE STAFF.



HARBOR HALL COURTYARD IMPROVEMENTS

UMBC Project No.: 23-126
 UMB Project No.: XXXX
 A/E Project No.: 17-0782.011
 GC/CM Project No.: XXXX



PROFESSIONAL CERTIFICATION
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100% CONSTRUCTION DOCUMENTS

CONSULTANTS

LANDSCAPE ARCHITECTURE
 FLOURA TEETER LANDSCAPE ARCHITECTS

ELECTRICAL ENGINEERING
 WFT ENGINEERING, INC.

GEOTECHNICAL SERVICES
 KIM ENGINEERING

COST ESTIMATING
 FORELLA GROUP, LLC

KEY PLAN

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	06/13/2023	SCHEMATIC DESIGN

DATE: 02/12/2024 SCALE: ZZZZ

TREE PROTECTION DETAILS

LF-501

HARBOR COURTYARD IMPROVEMENTS

UMBC Project No.: 20-103
A/E Project No.: 17-0782.004



A. MORTON THOMAS AND ASSOCIATES, INC.
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FLORA TEETER LANDSCAPE ARCHITECTS

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WFT ENGINEERING, INC.

STRUCTURAL ENGINEERING
CARROLL ENGINEERING

GEOTECHNICAL SERVICES
KIM ENGINEERING

COST ESTIMATING
FORELLA GROUP, LLC

KEYNOTES:

CONSTRUCTION NOTES			
SYMBOL	DESCRIPTION	NOTES	REFERENCE
C-1	LAWN	TURF SOD	5/L-201
C-2	PLANTING BED	SEE SPECIFICATIONS	4/L-201
C-3	MICRO-BIORETENTION SWM FACILITY	SEE CIVIL DRAWINGS	
C-4	ADIRONDACK CHAIR	SEE SPECIFICATIONS	1/L-301
C-5	VANG CHAIR	SEE SPECIFICATIONS	2/L-301
C-6	MOVEABLE TABLE, AND CHAIRS	SEE SPECIFICATIONS	
C-7	HIGH TOP TABLE AND STOOLS	SEE SPECIFICATIONS	
C-8	TRASH AND RECYCLING RECEPTACLE	SHOWN AS PAIR - SEE SPECIFICATIONS	
C-9	BIKE RACKS	SEE SPECIFICATIONS	5/L-301
C-10	PERGOLA	SEE SPECIFICATIONS	3/L-301
C-11	POLE LIGHT	SEE ELECTRICAL DRAWINGS	
C-12	BOLLARD LIGHT	SEE ELECTRICAL DRAWINGS	
C-13	PLATFORM SEATING		1/L-300
C-14	GRILL STATION		3+4/L-300
C-15	HAMMOCK POLE		4/L-301
C-16	CURVED BENCH (LARGE)	SEE SPECIFICATIONS	
C-17	CURVED BENCH (MEDIUM)	SEE SPECIFICATIONS	
C-18	CURVED BENCH (SMALL)	SEE SPECIFICATIONS	
C-19	UMBRELLA TABLE, AND CHAIRS	SEE SPECIFICATIONS	
C-20	BENCH	SALVAGE AND REUSE	
C-21	CHARGING STATION	SEE SPECIFICATIONS	

PAVEMENT NOTES			
SYMBOL	PAVER TYPE	NOTES	REFERENCE
P-1	CONCRETE SIDEWALK	SCORE AS SHOWN	SEE CIVIL DWGS
P-2	CONCRETE PAVERS A	6" x 24" x 2" HANOVER PREST BRICK	1/L-302
P-3	CONCRETE PAVER B	HANOVER APPIAN CIRCLE BRICK	1+2/L-302
P-4	MOW STRIP	18" AGGREGATE WITH BINDER - SEE SPECIFICATIONS	6/L-301

GENERAL LANDSCAPE NOTES:

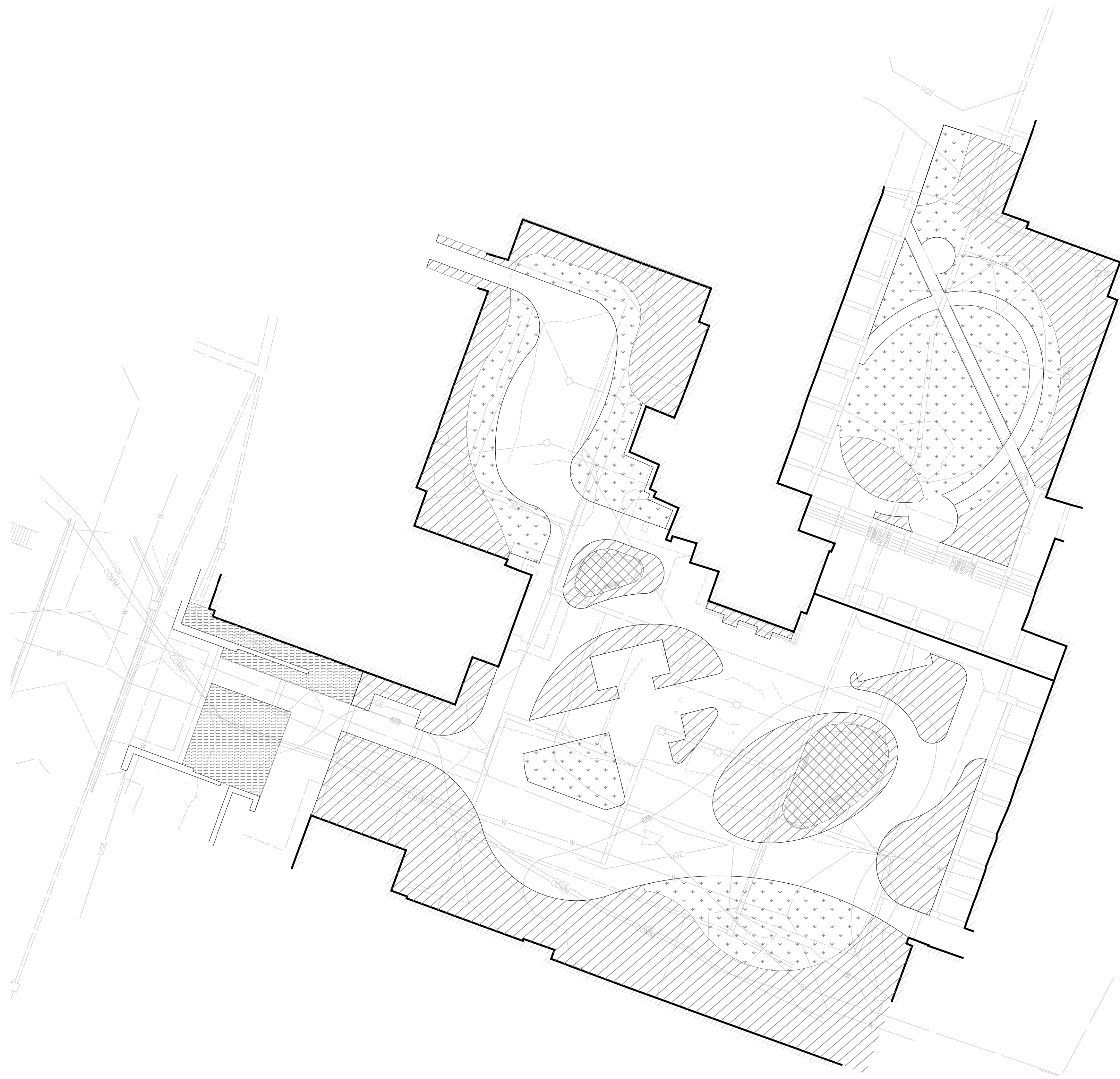
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7. PROVIDE EXPANSION JOINT WHERE PROPOSED CONCRETE ABUTS EXISTING HARDSCAPE, BUILDING, WALL, OR OTHER RIGID SURFACE.
8. REMOVE, TRANSPORT, AND STORE EXISTING SITE FURNITURE NOT REUSED BY DIRECTION OF UNIVERSITY.

EXISTING SITE ELEMENTS:

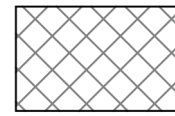

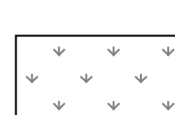
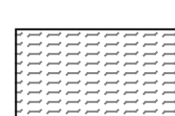
HARBOR HALL EXISTING SITE ELEMENTS			
TYPE	QUANTITY	SITE ELEMENTS	INTENT
TRASH RECEPTACLE	3	(3)	(3) SALVAGE AND REUSE ONSITE
RECYCLE RECEPTACLE	2	(2)	(2) SALVAGE AND REUSE ONSITE
BACKLESS BENCH	13	(3)	(3) SALVAGE AND REUSE ONSITE / (10) SALVAGE AND STORE
BACKLESS BENCH	4	(4)	(4) SALVAGE AND STORE
TABLE CHAIR COMBO (COMPOSITE)	18	(18)	(18) DISCARD
TABLE CHAIR COMBO (METAL)	4	(4)	(4) SALVAGE AND STORE
TABLE CHAIR COMBO (METAL w/ UMBRELLA)	1	(1)	(1) SALVAGE AND STORE
TABLE CHAIR COMBO (SOLAR TABLE)	1	(1)	(1) DISCARD
BICYCLE RACK	3	(3)	(3) DISCARD



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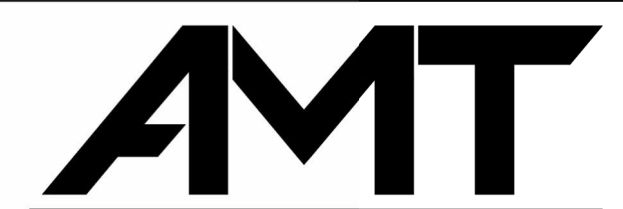
PLANTING SOILS KEY:

-  BIORETENTION SOIL - SEE CIVIL DRAWINGS
-  PLANTING AREA SOIL - MINIMUM 12" DEPTH
-  TURF/LAWN SOIL - 6" DEPTH
-  INFILL PLANTING - AMEND SOIL IN INDIVIDUAL PLANTING PITS



HARBOR COURTYARD IMPROVEMENTS

UMBC Project No.: 20-103
A/E Project No.: 17-0782.004



A. MORTON THOMAS AND ASSOCIATES, INC.
CONSULTING ENGINEERS
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EMAIL: AMT1@AMTENGINEERING.COM



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UNDER THE LAWS OF THE STATE OF MARYLAND,
LICENSE NO. 1093, EXPIRATION DATE 07/26/24

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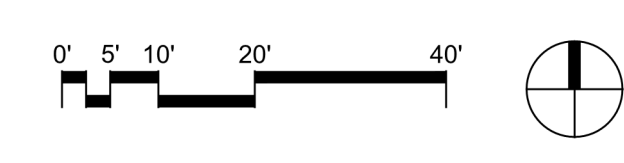
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FLORA TEETER LANDSCAPE ARCHITECTS
- ELECTRICAL ENGINEERING
WFT ENGINEERING, INC.
- STRUCTURAL ENGINEERING
CARROLL ENGINEERING
- GEOTECHNICAL SERVICES
KIM ENGINEERING
- COST ESTIMATING
FORELLA GROUP, LLC

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DATE: 02/12/2024 SCALE: 1"=20'

1 SOIL PLACEMENT PLAN
PLAN

SCALE: 1" = 20'-0"



SOIL PLACEMENT PLAN

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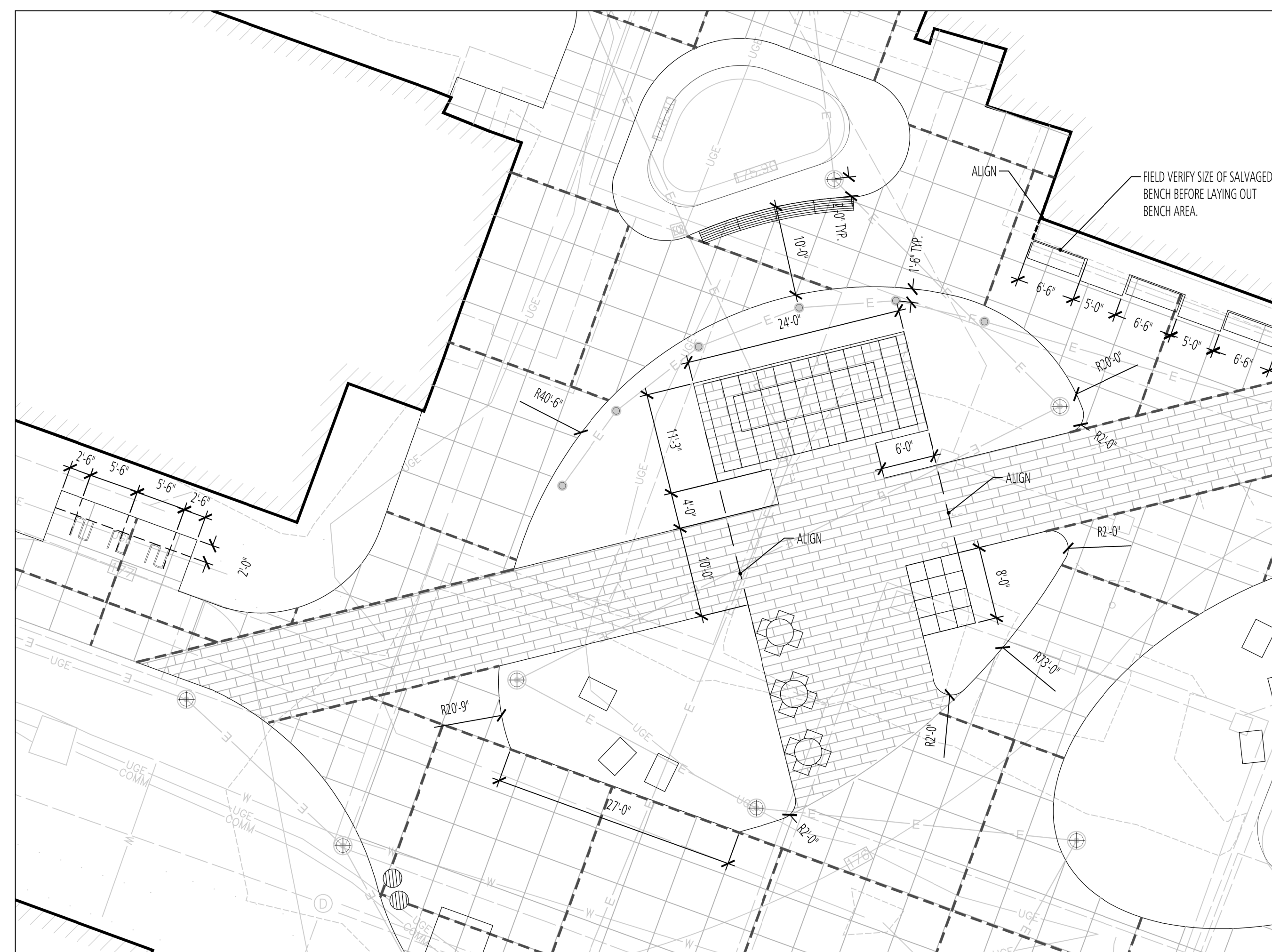
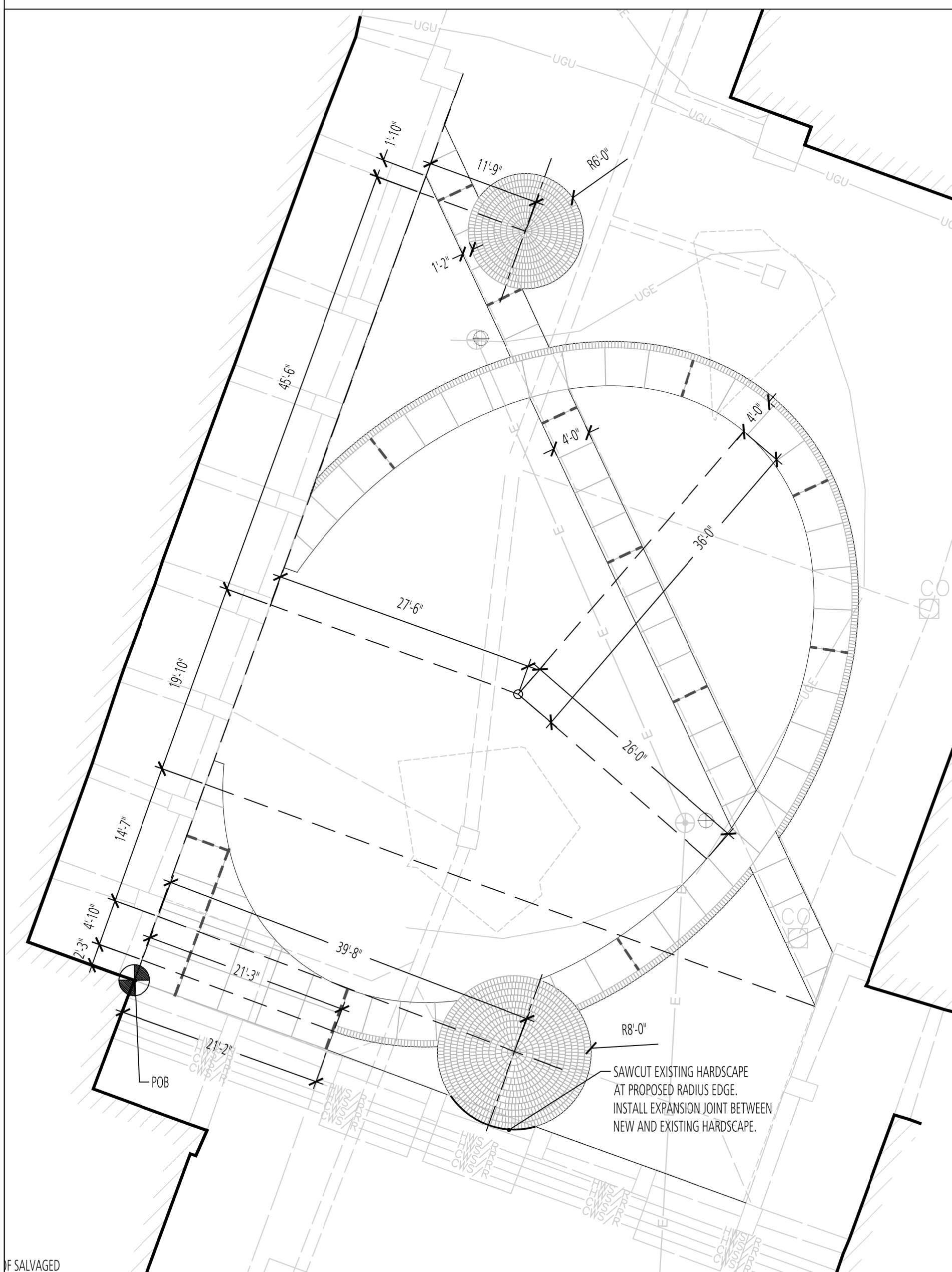
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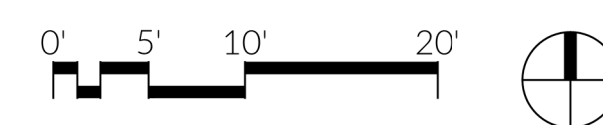
1 COURTYARD ENLARGEMENT
PLAN

SCALE: 1" = 10'-0"



2 ELLIPSE ENLARGEMENT
PLAN

SCALE: 1" = 10'-0"



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LAYOUT PLANS

HARBOR COURTYARD IMPROVEMENTS

UMBC Project No.: 20-103
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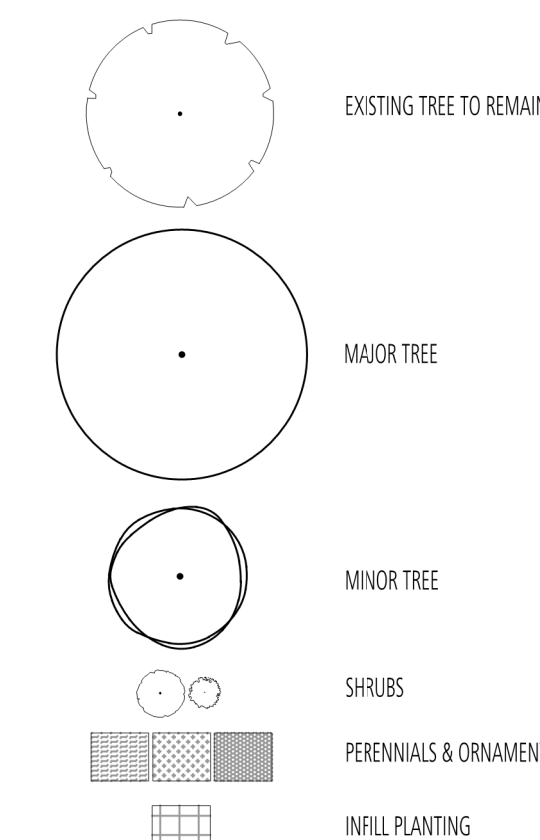
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CARROLL ENGINEERING

GEOTECHNICAL SERVICES
KIM ENGINEERING

COST ESTIMATING
FORELLA GROUP, LLC

LEGEND:



PLANT SCHEDULE:

PLANT SCHEDULE						
Symbol	Quantity	Botanical Name	Common Name	Size	Root	Spacing/Notes
Major Trees						
BN	3	<i>Betula nigra</i> 'Duraheat'	River Birch	12" Ht.	B&B	3-5 stems
GB	3	<i>Ginkgo biloba</i>	Ginkgo	3" Cal.	B&B	
QP	2	<i>Quercus phellos</i> 'Hightower'	Columnar Willow Oak	3" Cal.	B&B	High branching; 7' BTH
Minor Trees						
AC	2	<i>Amelanchier canadensis</i>	Serviceberry	6' Ht.	B&B	3-5 stems
CC	2	<i>Cercis canadensis</i>	Eastern Redbud	8' Ht.	CG / B&B	
LI	6	<i>Lagerstroemia indica</i> 'Natchez'	Natchez Crape Myrtle	8' Ht.	B&B	3-5 stems
MS	3	<i>Magnolia x soulangeana</i>	Saucer Magnolia	2" Cal.	B&B	
PS	1	<i>Prunus serotina</i> 'Snow Goose'	Snow Goose Flowering Cherry	2" Cal.	CG / B&B	Matched
Shrubs						
Ab	49	<i>Abelia grandiflora</i> 'Kaleidescope'	Kaleidescope Abelia	18" Ht.	CG / B&B	Full and heavy
Cj	5	<i>Camellia japonica</i> 'Greensboro Red'	Camellia	36" Ht.	CG / B&B	Full and heavy
Cs	70	<i>Cornus sericea</i> 'Arctic Fire'	Arctic Fire Red Twig Dogwood	24" Ht.	CG / B&B	Full and heavy
Cx	43	<i>Clethra</i> 'Sixteen Candles'	Sixteen Candles Summersweet	24" Ht.	CG / B&B	Full and heavy
Dg	44	<i>Deutzia gracilis</i>	Slender Deutzia	24" Ht.	CG / B&B	Full and heavy
Fg	64	<i>Fothergilla gardenii</i>	Dwarf Fothergilla	24" Ht.	CG / B&B	Full and heavy
Ha	16	<i>Hydrangea arborescens</i> 'Haas Halo'	Smooth Hydrangea	36" Ht.	CG / B&B	Full and heavy
Hh	52	<i>Hypericum</i> 'Hidcote'	St. John's Wort	18" Ht.	CG / B&B	Full and heavy
Hq	44	<i>Hydrangea quercifolia</i> 'Pee Wee'	Oakleaf Hydrangea	18" Ht.	CG / B&B	Full and heavy
Hv	3	<i>Hamamelis virginiana</i>	Witchhazel	36" Ht.	CG / B&B	Full and heavy
Ig	87	<i>Ilex glabra</i>	Inkberry Holly	24" Ht.	CG / B&B	Full and heavy
It	48	<i>Itea virginica</i> 'Henry's Garnet'	Virginia Sweetpire	24" Ht.	CG / B&B	Full and heavy
Ivs	15	<i>Ilex verticillata</i> 'Southern Gentleman'	Winterberry (male)	36" Ht.	CG / B&B	Full and heavy
Ivw	130	<i>Ilex verticillata</i> 'Winter Gold'	Winterberry (female)	36" Ht.	CG / B&B	Full and heavy
Jn	72	<i>Jasminum nudiflorum</i>	Winter Jasmine	36" Ht.	CG / B&B	Full and heavy
Lf	32	<i>Leucothoe fontanesiana</i> 'Zelbid'	Scarletta Drooping Laurel	18" Ht.	CG / B&B	Full and heavy
Po	27	<i>Physocarpus opulifolius</i> 'Little Devil'	Ninebark	36" Ht.	CG / B&B	Full and heavy
Ra	55	<i>Rhus aromatica</i> 'Gro-Low'	Fragrant Sumac	2' Spr.	CG / B&B	Full and heavy
Sj	109	<i>Spirea japonica</i> 'Firelight'	Firelight Spirea	2' Spr.	CG / B&B	Full and heavy
Sw	24	<i>Spirea japonica</i> 'Walburna'	Walburna Spirea	18" Spr.	CG / B&B	Full and heavy
Vd	30	<i>Viburnum dentatum</i>	Arrowwood Viburnum	36" Ht.	CG / B&B	Full and heavy
Groundcovers, Perennials and Grasses						
ab	80	<i>Amsonia</i> 'Blue Ice'	Blue Star	#SP4	CG	15" O.C.
hsb	355	<i>Hosta</i> sp. 'Blue Angel'	Blue Angel Hosta	#1	CG	18" O.C.
hsg	210	<i>Hosta</i> sp. 'Gold Standard'	Gold Standard Hosta	#1	CG	18" O.C.
hv	560	<i>Heuchera villosa</i> 'Autumn Bride'	Hairy Alumroot	#1	CG	15" O.C.
is	50	<i>Iris cristata</i>	Short Dwarf Crested Iris	#SP4	CG	12" O.C.
ls	200	<i>Liatris spicata</i>	Blazing Star	#1	CG	12" O.C.
md	250	<i>Monarda didyma</i> 'Jacob Cline'	Jacob Cline Bee Balm	#1	CG	12" O.C.
nr	710	<i>Nepeta racemosa</i> 'Walker's Low'	Walker's Low Catmint	#1	CG	12" O.C.
rh	660	<i>Rudbeckia hirta</i>	Black Eyed Susan	#SP4	CG	12" O.C.
sc	430	<i>Symphoricarpos cordifolium</i> 'Avondale'	Blue Wood Aster	#1	CG	12" O.C.
se	300	<i>Sedum</i> 'Autumn Joy'	Stonewall	#1	CG	12" O.C.
vn	120	<i>Veronica noveboracensis</i>	New York Ironweed	#1	CG	12" O.C.

PLANTING NOTES:

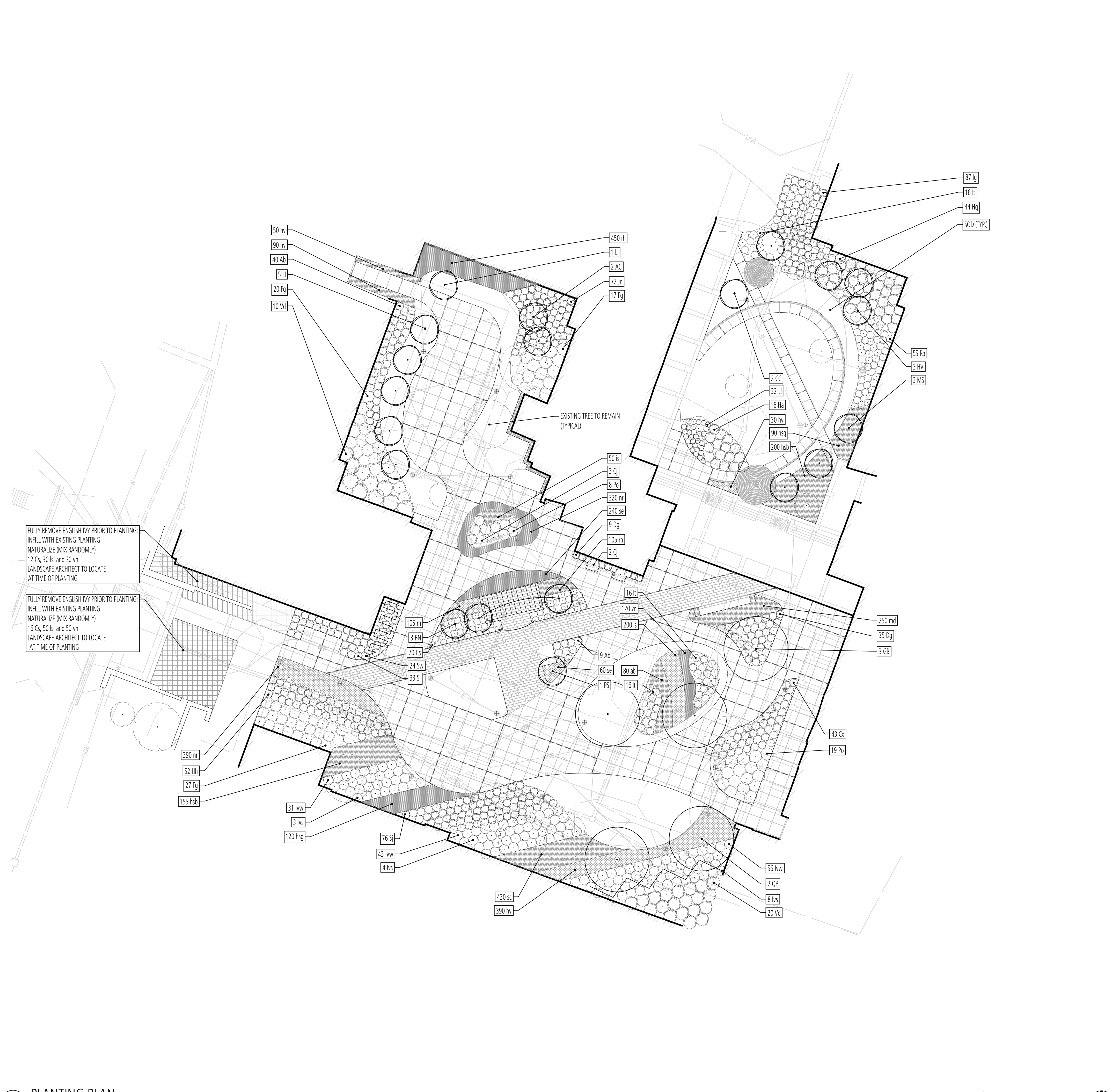
- PLANT MATERIAL CONFORMS TO THE SIZES GIVEN IN THE PLANT SCHEDULE AND NURSERY GROWN IN ACCORDANCE WITH THE 'AMERICAN STANDARDS FOR NURSERY STOCK, ANSI Z60.1-2004' LATEST EDITION PREPARED BY THE AMERICAN ASSOCIATION OF NURSERYMEN, 230 SOUTH-ERN BUILDING, WASHINGTON, D.C. 20005.
- VERIFY THE CORRECT LOCATION OF ANY EXISTING UTILITIES WHICH ARE UNDERGROUND, PRIOR TO PLANT INSTALLATION.
- MULCH ALL PLANT BEDS WITH A MINIMUM OF 2" AND A MAXIMUM OF 3" LAYER OF MULCH WITHIN TWO DAYS AFTER PLANTING. WITH SHREDDED HARDWOOD BARK COVERING ENTIRELY THE PLANTING BED.
- GUARANTEE THAT ALL PLANTS REMAIN ALIVE AND HEALTHY FOR A PERIOD OF ONE FULL YEAR AFTER INITIAL ACCEPTANCE. ANY REPLACEMENT PLANTS, REQUIREMENTS, ETC. AND METHOD OF PLACING COMPLIES WITH THE REQUIREMENTS SPECIFIED HEREIN, WITHIN THE SPECIFICATIONS, AND ON THE DRAWINGS.
- AMEND EXISTING SOIL IN PLANTING BED AREAS TO A MINIMUM DEPTH OF 12" PER THE SOIL PLACEMENT SPECIFICATIONS.
- PLANT MATERIAL AVAILABILITY MAY VARY AT THE TIME OF CONSTRUCTION. ANY SUBSTITUTIONS ARE TO BE OF EQUIVALENT TYPE AND SIZE (OR LARGER), AND MUST BE APPROVED BY THE DESIGN TEAM BEFORE INSTALLATION.
- WHERE THE CONDITION EXISTS THAT THE BALLED AND BURLAPPED TREES ARE DELIVERED IN WIRE BASKETS, REMOVE WIRE BASKETS ENTIRELY.
- ANY DAMAGE TO THE EXISTING UTILITIES, BUILDINGS, PAVING, CURBS, WALLS, VEGETATION AND ANY OTHER EXISTING FEATURES NOT DESIGNATED FOR REMOVAL ON THESE PLANS, REPAIR, OR REPLACE TO PREVIOUS CONDITION OR REPLACED. ALL AREAS DISTURBED DURING CONSTRUCTION ARE TO BE SOILED PER THE PLANS AND SPECIFICATION UNLESS OTHERWISE NOTED.

REV	DATE	DESCRIPTION
		RECORD SET
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	12/08/2024	95% CONSTRUCTION SET
	10/26/2024	50% CONSTRUCTION SET
	08/24/2024	DESIGN DEVELOPMENT
	06/19/2024	SCHEMATIC DESIGN

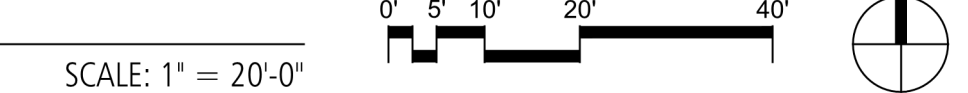
DATE: 02/12/2024 SCALE: 1"=20'

PLANTING PLAN

L-200



1 PLANTING PLAN





PROFESSIONAL CERTIFICATION
I HEREBY CERTIFY THAT THESE DOCUMENTS WERE
PREPARED OR APPROVED BY ME, AND THAT I AM A DULY
LICENSED PROFESSIONAL LANDSCAPE ARCHITECT
UNDER THE LAWS OF THE STATE OF MARYLAND,
LICENSE NO. 1093, EXPIRATION DATE 07/26/24

100% CONSTRUCTION DOCUMENTS

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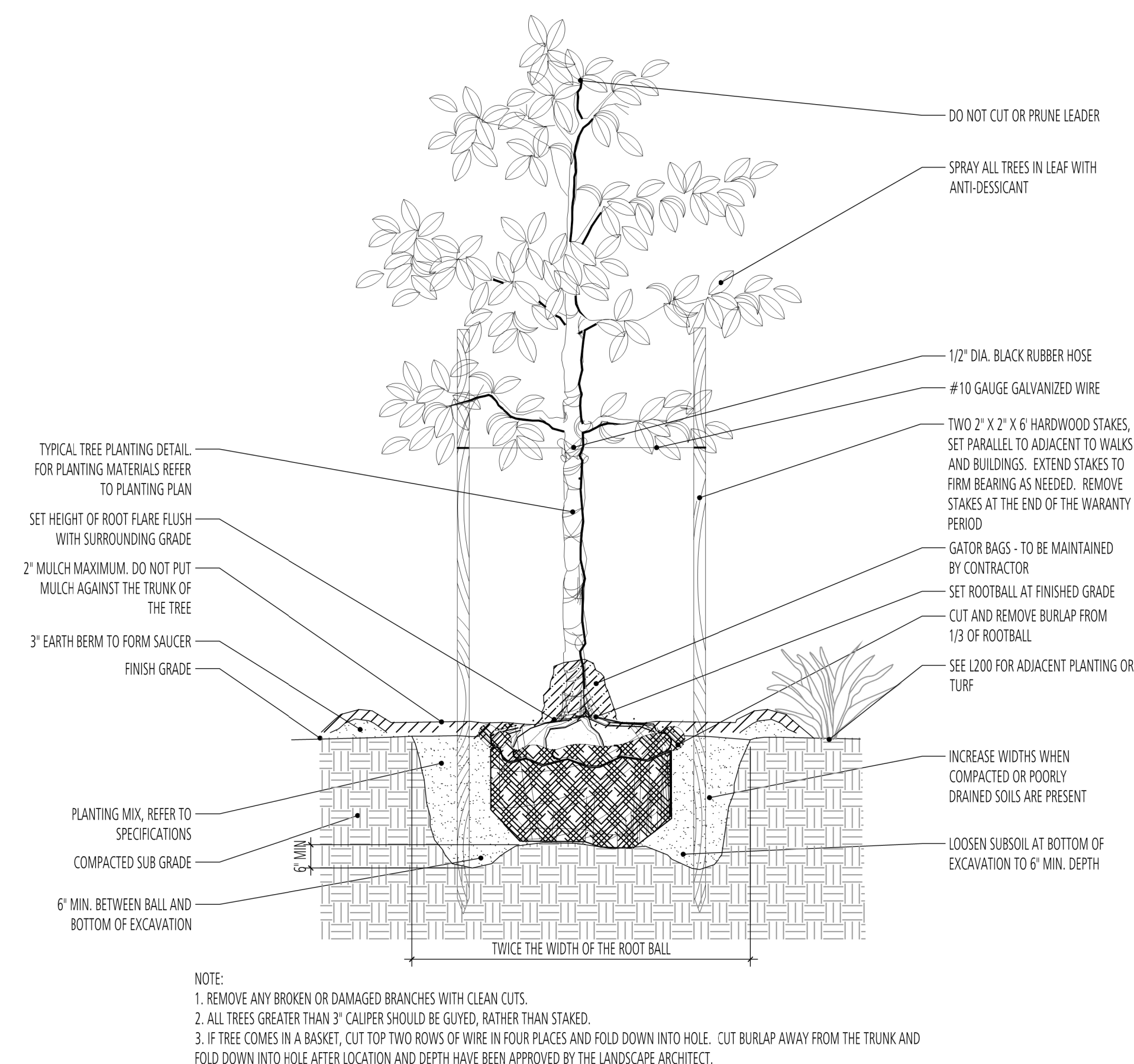
LANDSCAPE ARCHITECTURE
FLOURA TEETER LANDSCAPE ARCHITECTS

ELECTRICAL ENGINEERING
WFT ENGINEERING, INC.

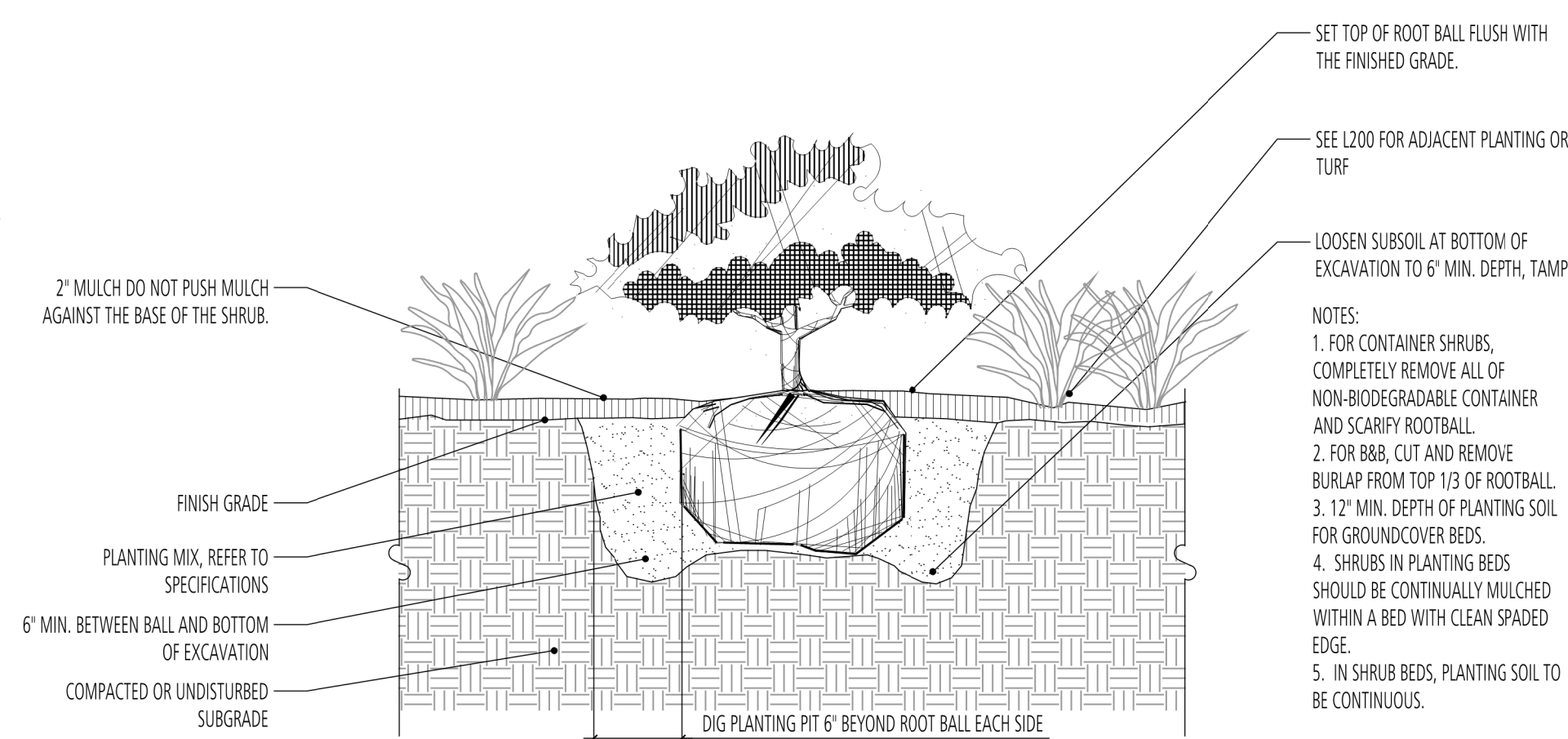
STRUCTURAL ENGINEERING
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KIM ENGINEERING

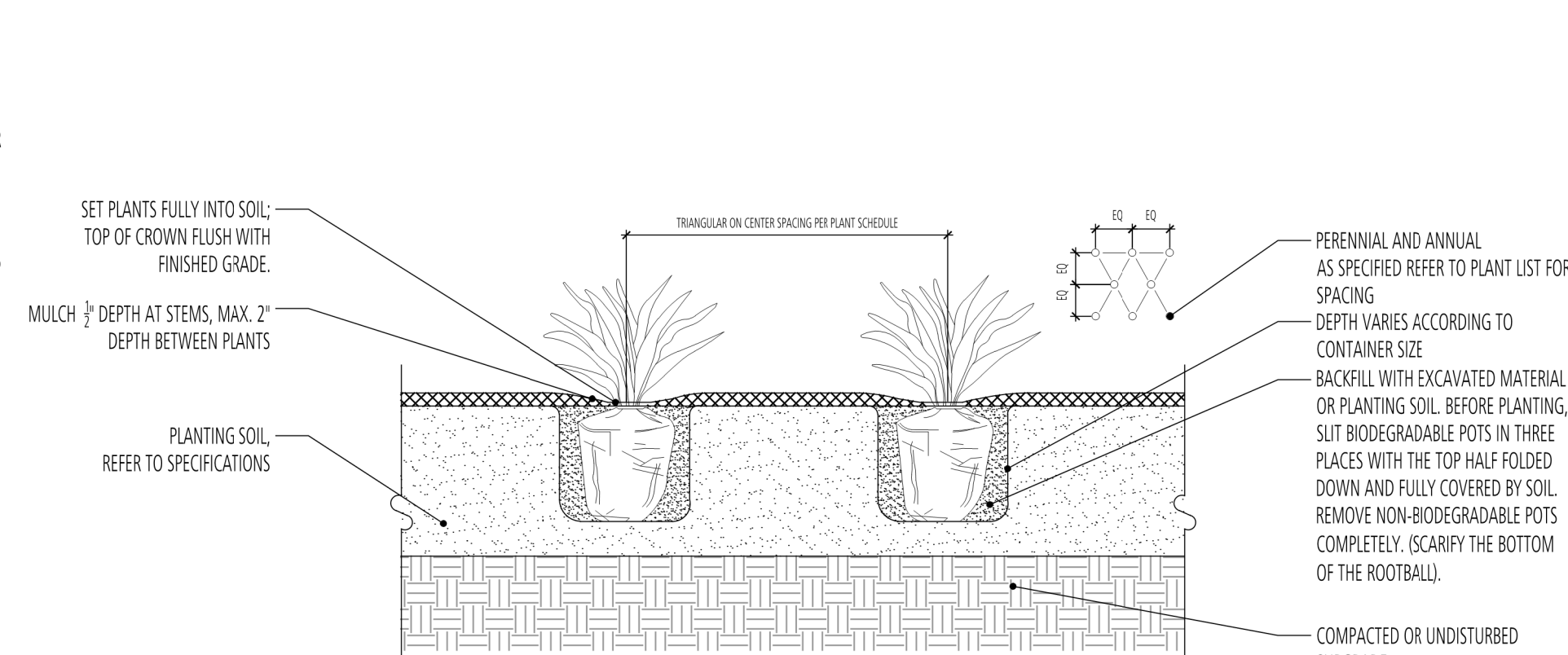
COST ESTIMATING
FORELLA GROUP, LLC



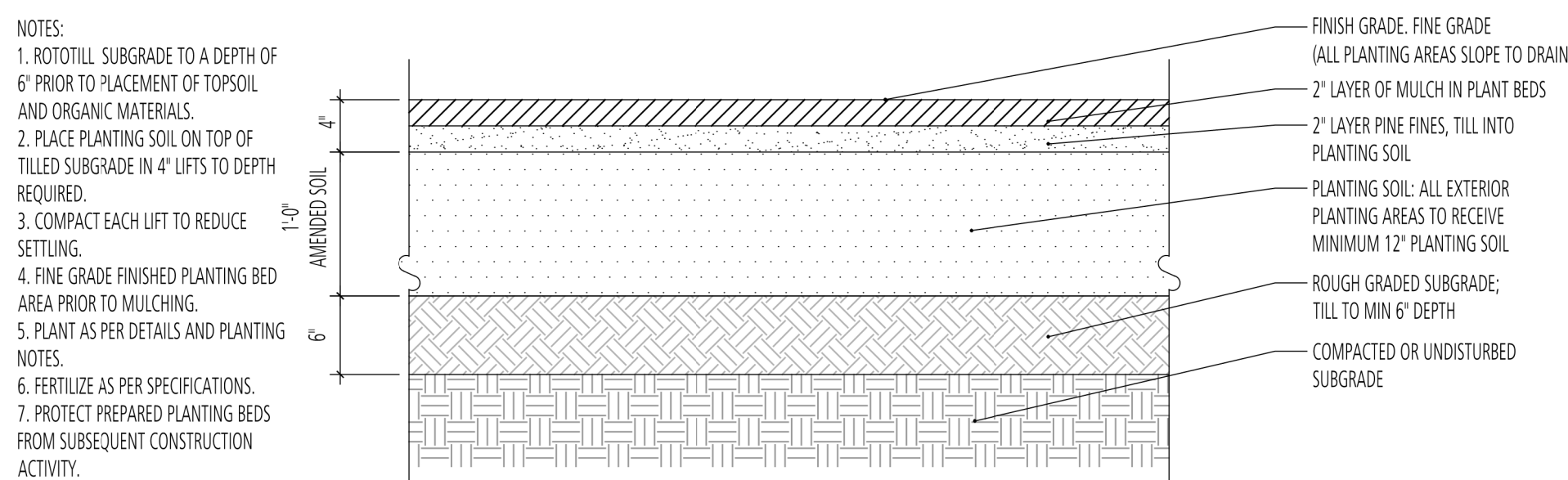
1 TREE PLANTING DETAIL
SECTION SCALE: 1/2" = 1'-0"



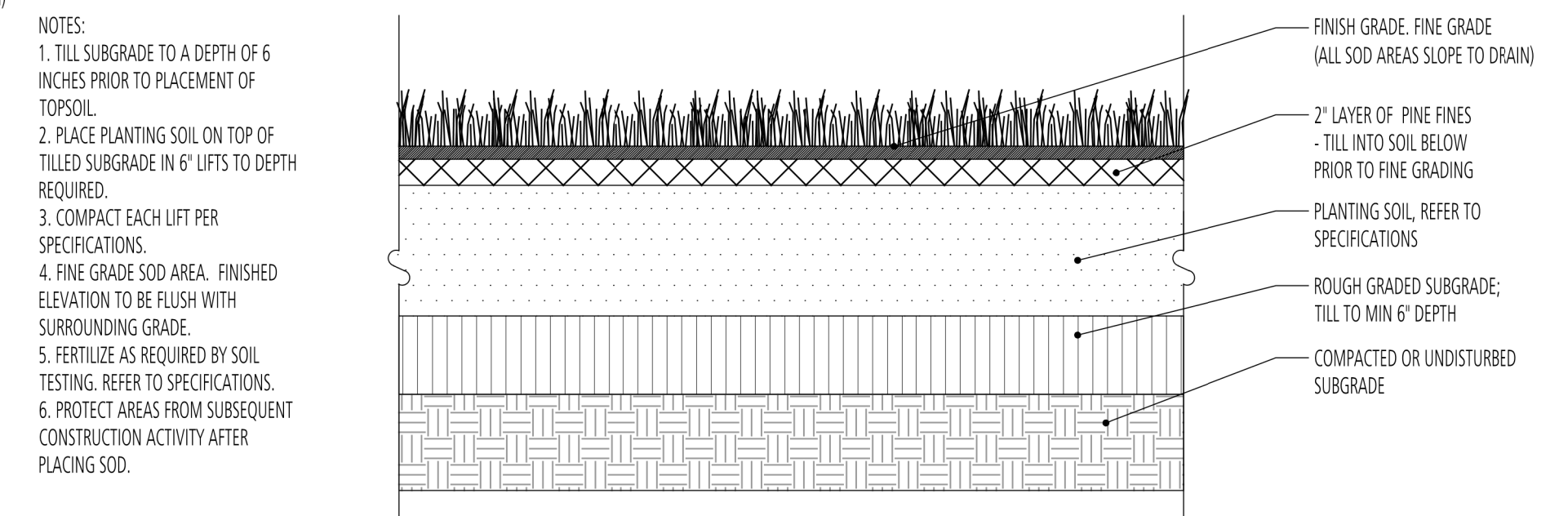
2 SHRUB PLANTING DETAIL
SECTION SCALE: 1/2" = 1'-0"



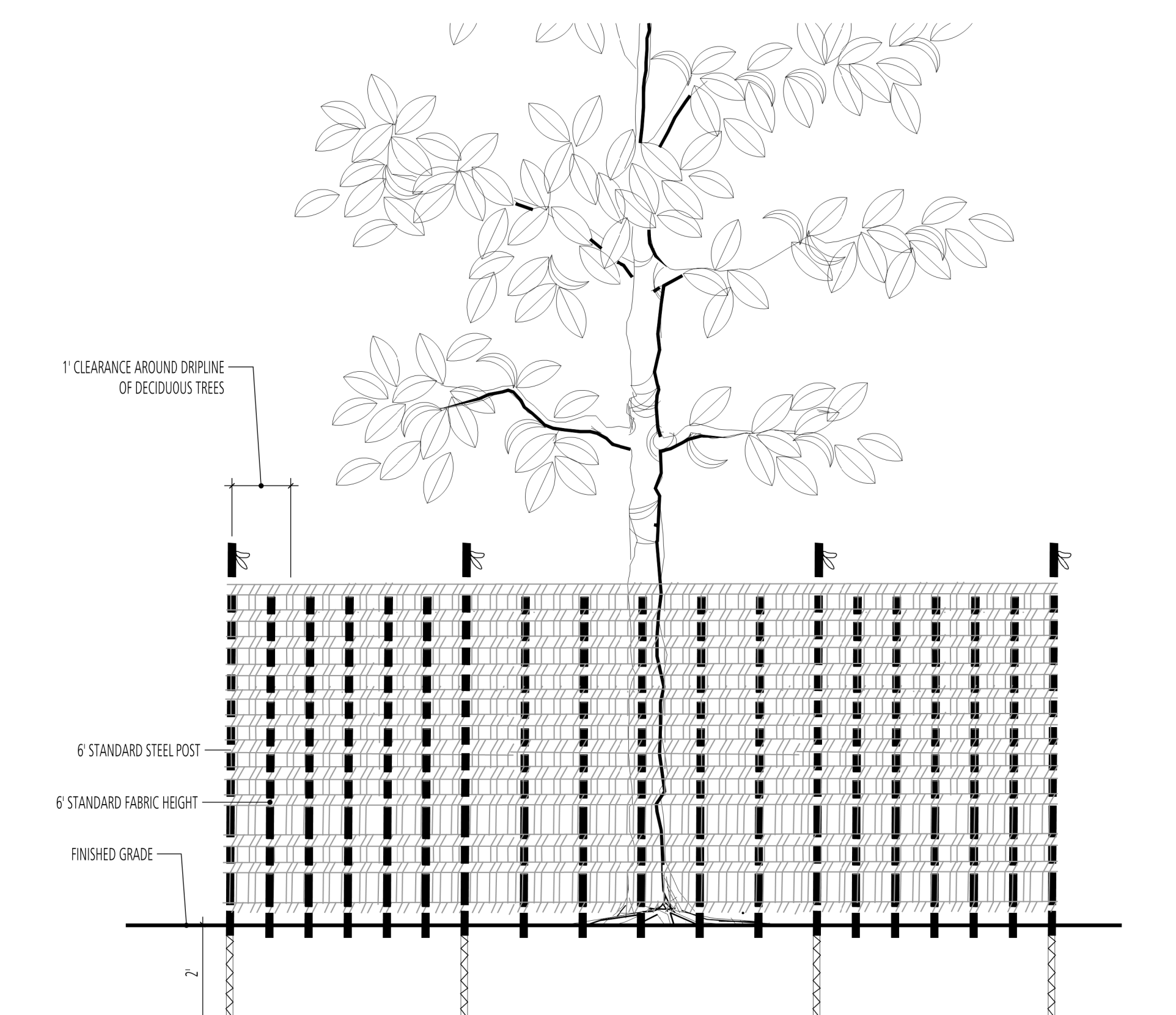
3 PERENNIAL PLANTING DETAIL
SECTION SCALE: 1/2" = 1'-0"



4 PLANTING BED PREPARATION DETAIL
SECTION SCALE: 1" = 1'-0"



5 LAWN DETAIL - SOD
SECTION SCALE: 1" = 1'-0"

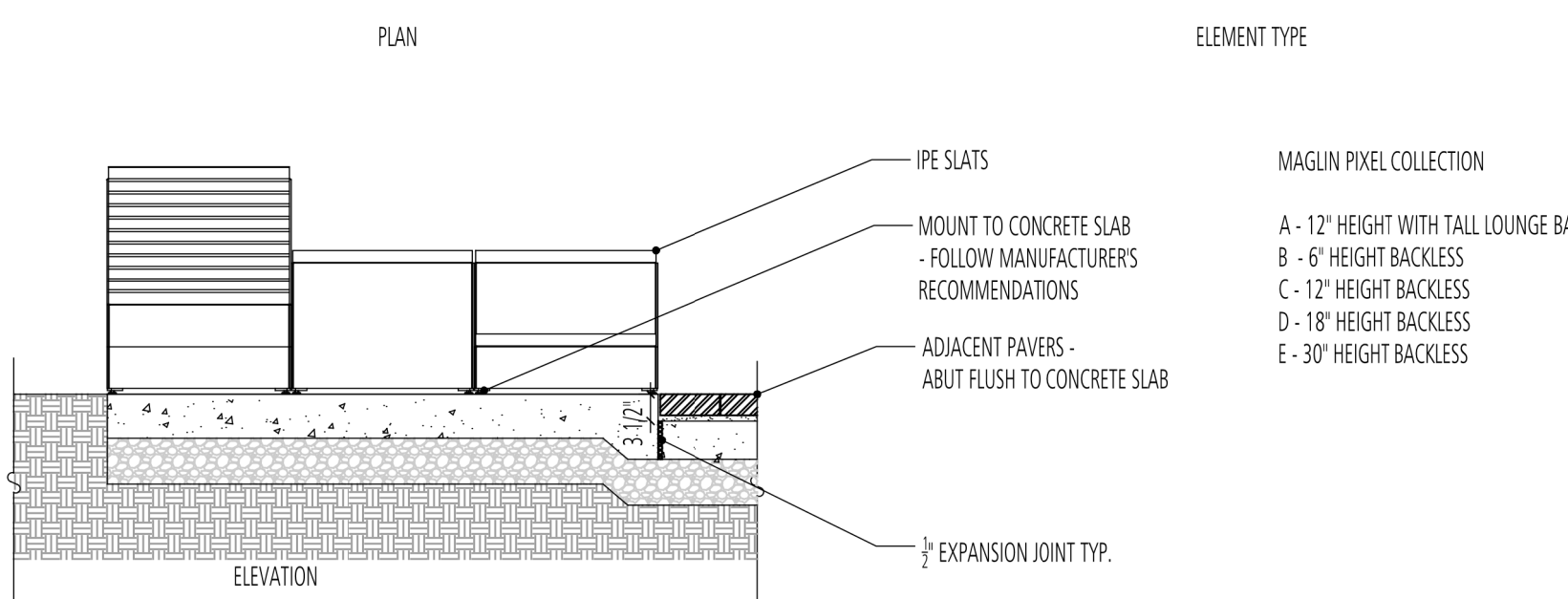
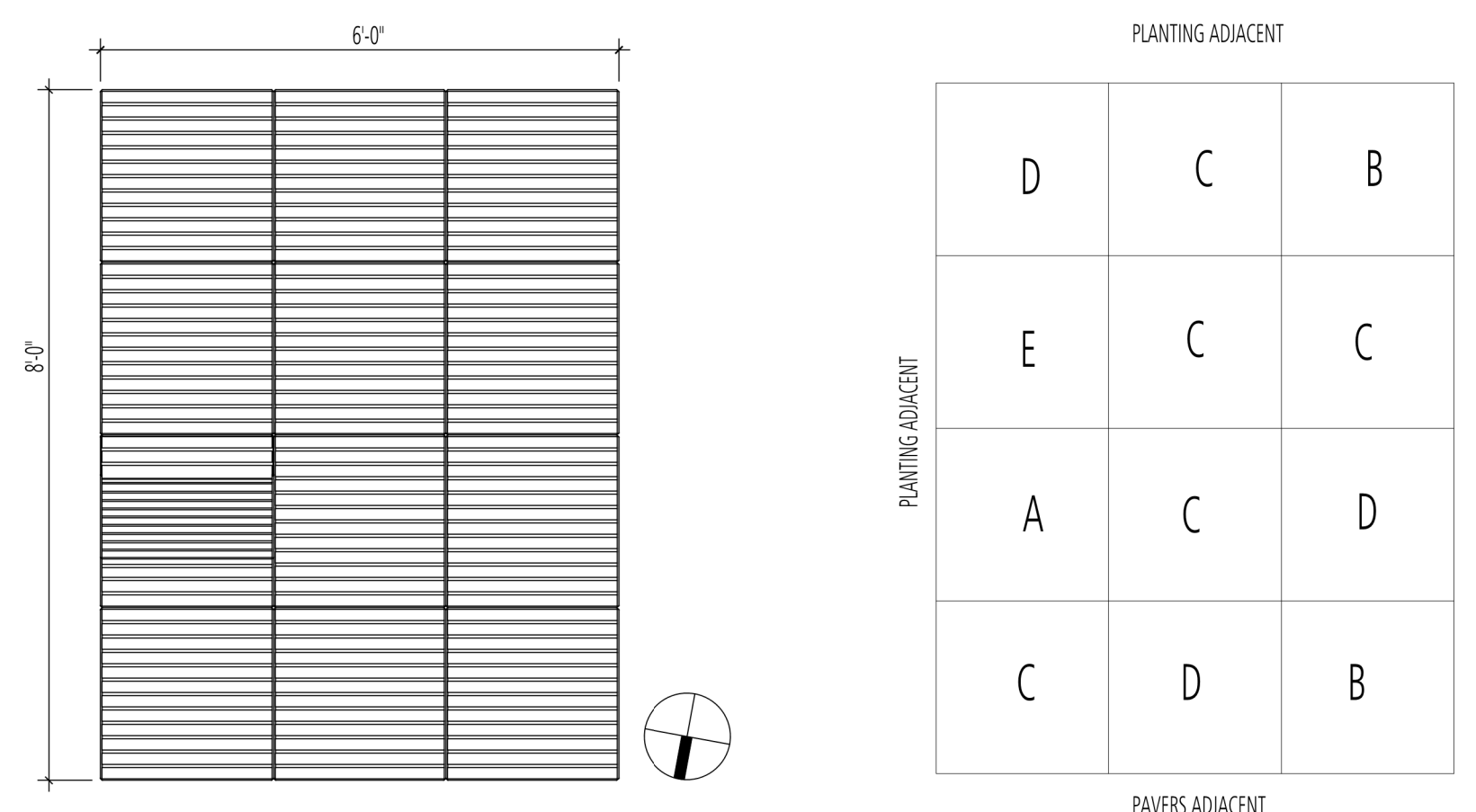


6 DRIPLINE TREE PROTECTION
SECTION SCALE: 1/2" = 1'-0"

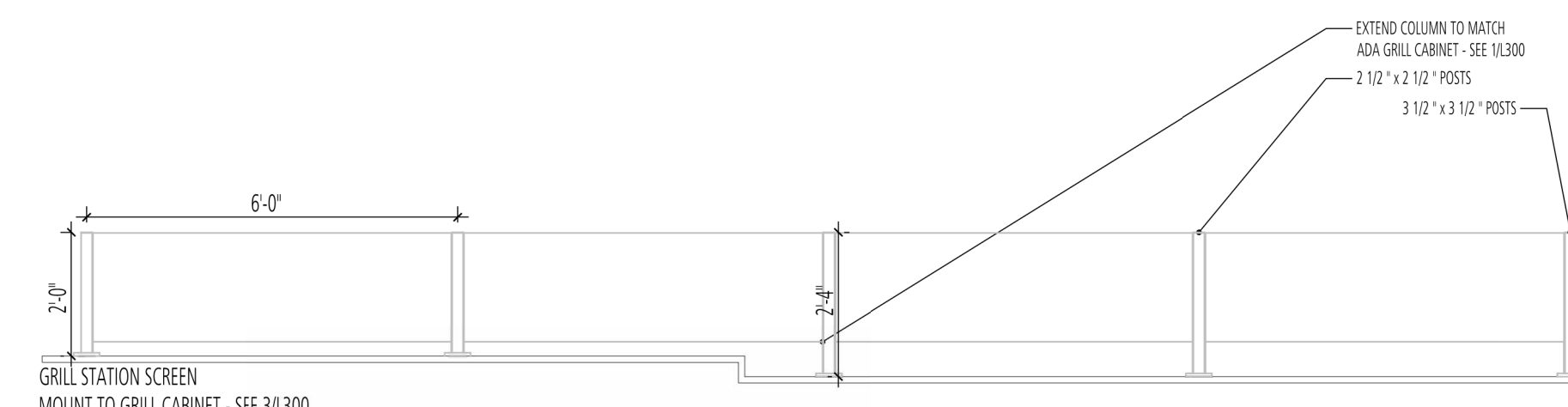
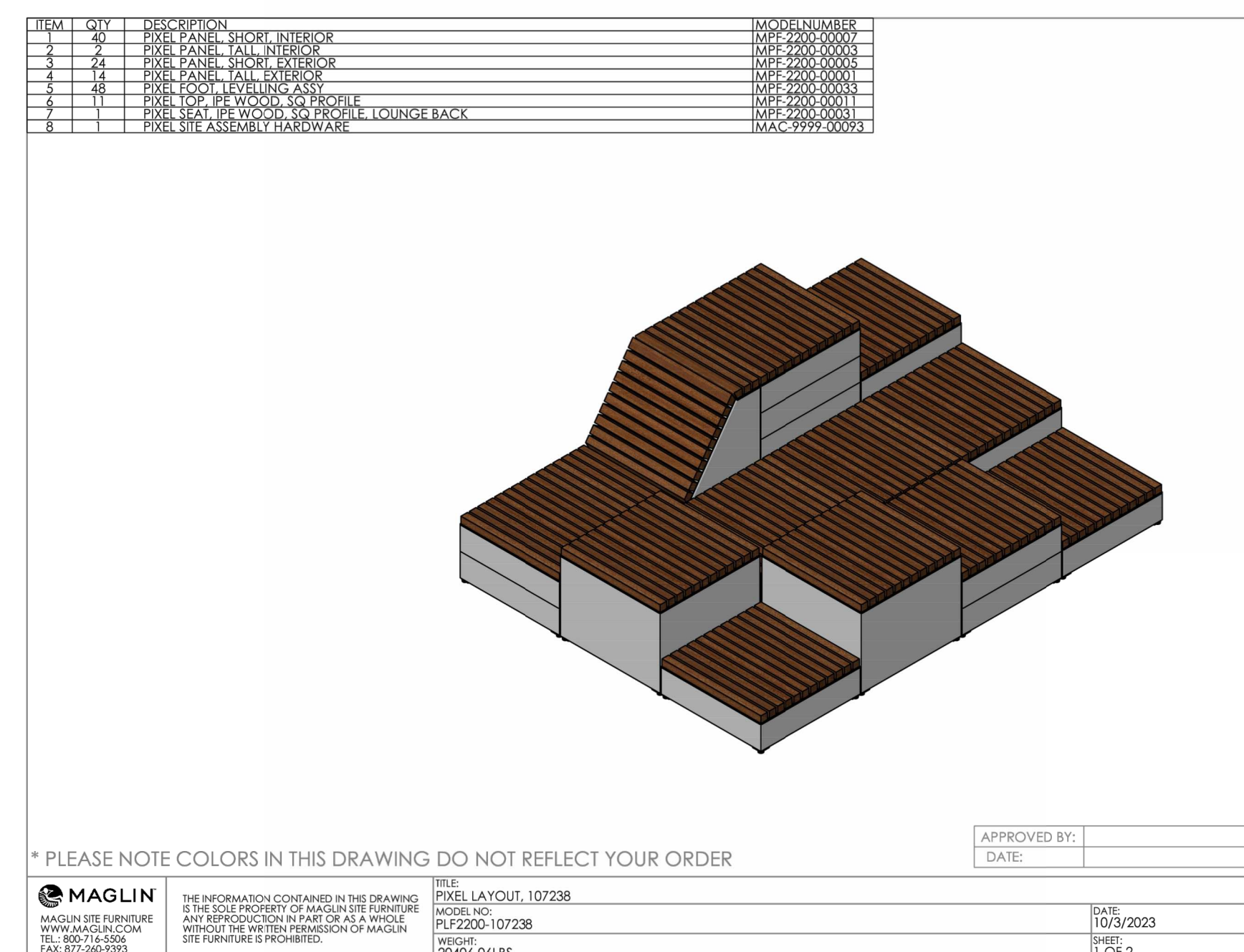
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		50% CONSTRUCTION SET
		DESIGN DEVELOPMENT
		SCHEMATIC DESIGN

DATE: 02/12/2024 SCALE:

PLANTING DETAILS



- MAGLIN PIXEL COLLECTION
- A - 12" HEIGHT WITH TALL LOUNGE BACK
 - B - 6" HEIGHT BACKLESS
 - C - 12" HEIGHT BACKLESS
 - D - 18" HEIGHT BACKLESS
 - E - 30" HEIGHT BACKLESS



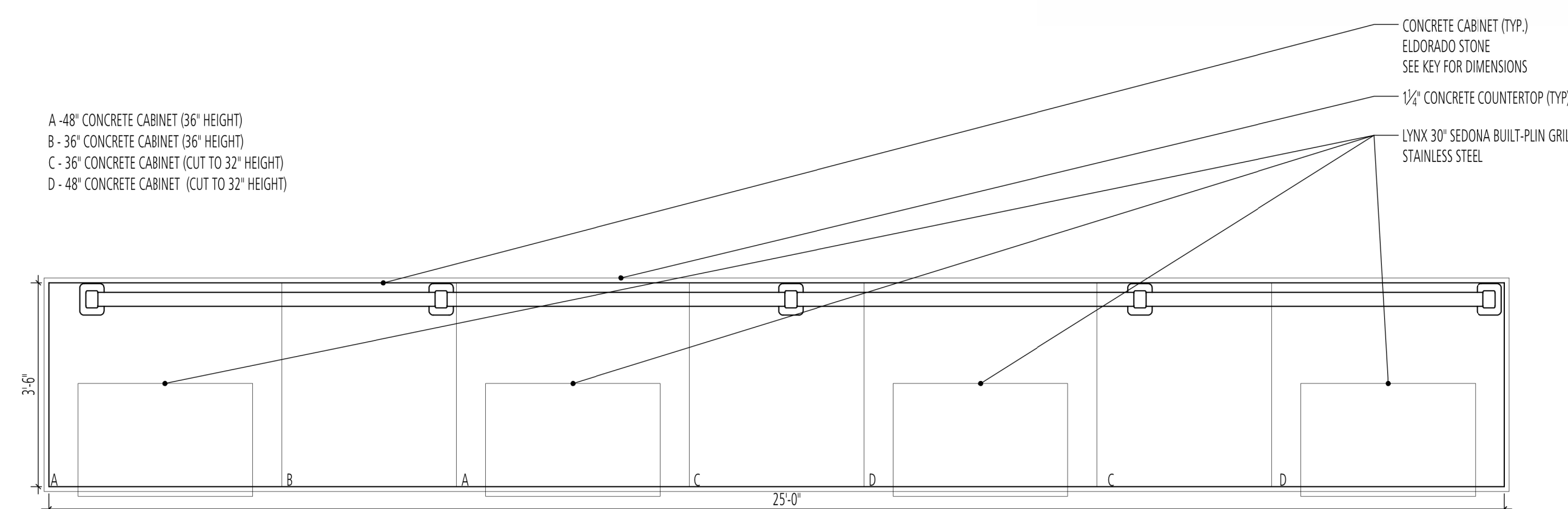
MAGLIN SITE FURNISHINGS
CUSTOM FLEX PRIVACY SCREEN
KALEIDOSCOPE SCREEN PATTERN

1 PLATFORM SEATING
SECTION

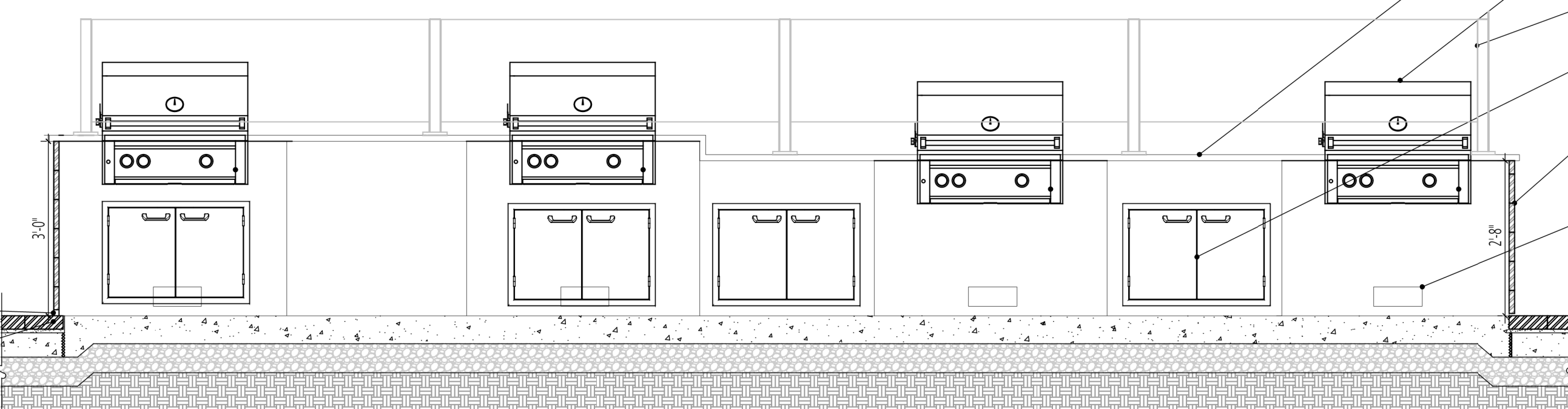
d-filename.dwg
SCALE: 1/2" = 1'-0"

2 SCREEN PANELS
SECTION

d-filename.dwg
SCALE: 3/8" = 1'-0"

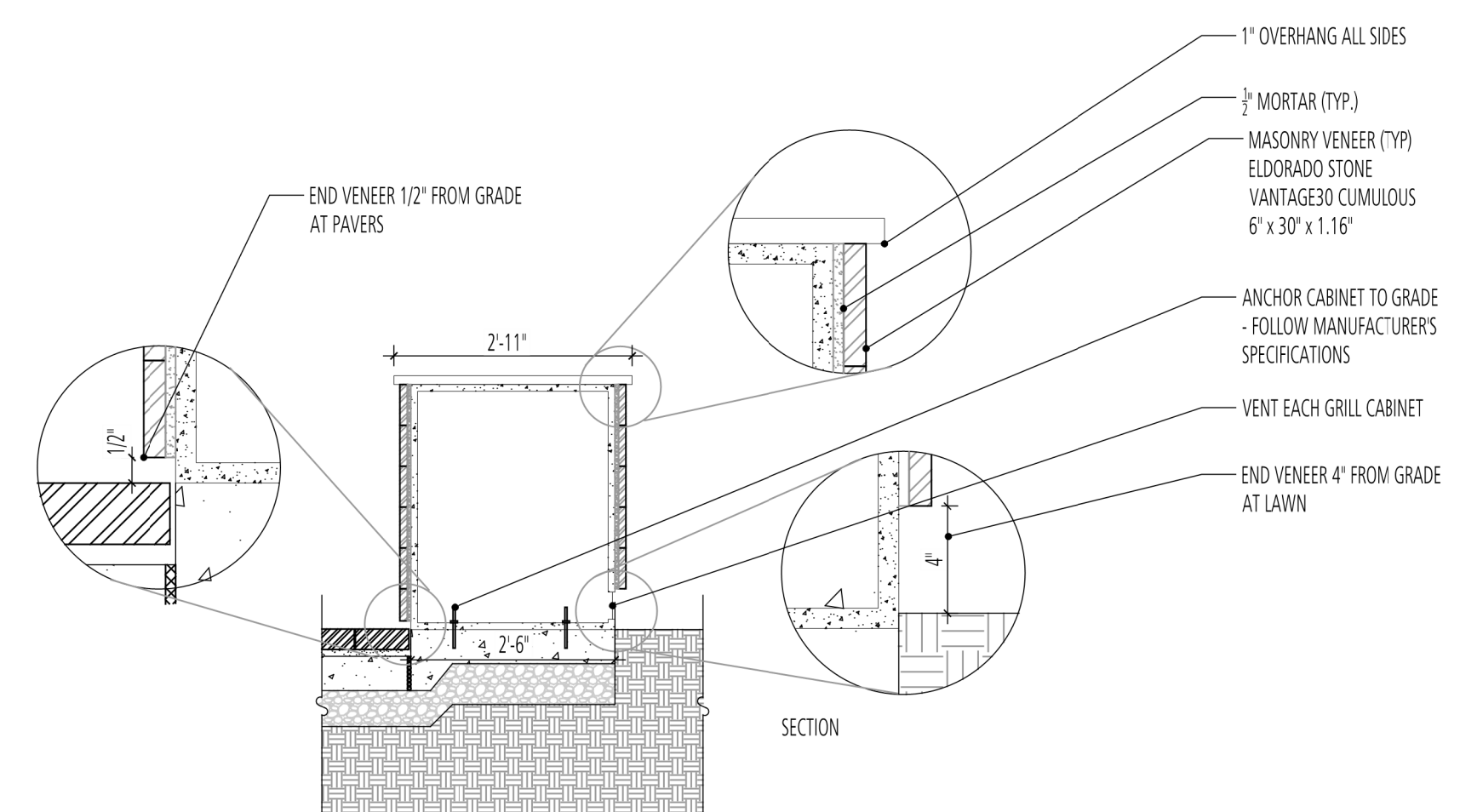


- NOTES:
- PROVIDE SHOP DRAWINGS FOR APPROVAL PRIOR TO BEGINNING WORK
 - CUT CABINETS TO FIT GRILLS AND ACCESS DOORS - SEE LYNX GRILLS SPECIFICATIONS FOR OPENING DIMENSIONS AND INSTALLATION REQUIREMENTS
 - PROVIDE 5' PROPANE HOSE TO CONNECT ADA GRILL STATION TO ACCESS DOOR IN ADJACENT CABINET. KEEP OPENINGS BETWEEN CABINETS CLEAR.



3 GRILL STATION
PLAN AND ELEVATION

d-filename.dwg
SCALE: 1/2" = 1'-0"

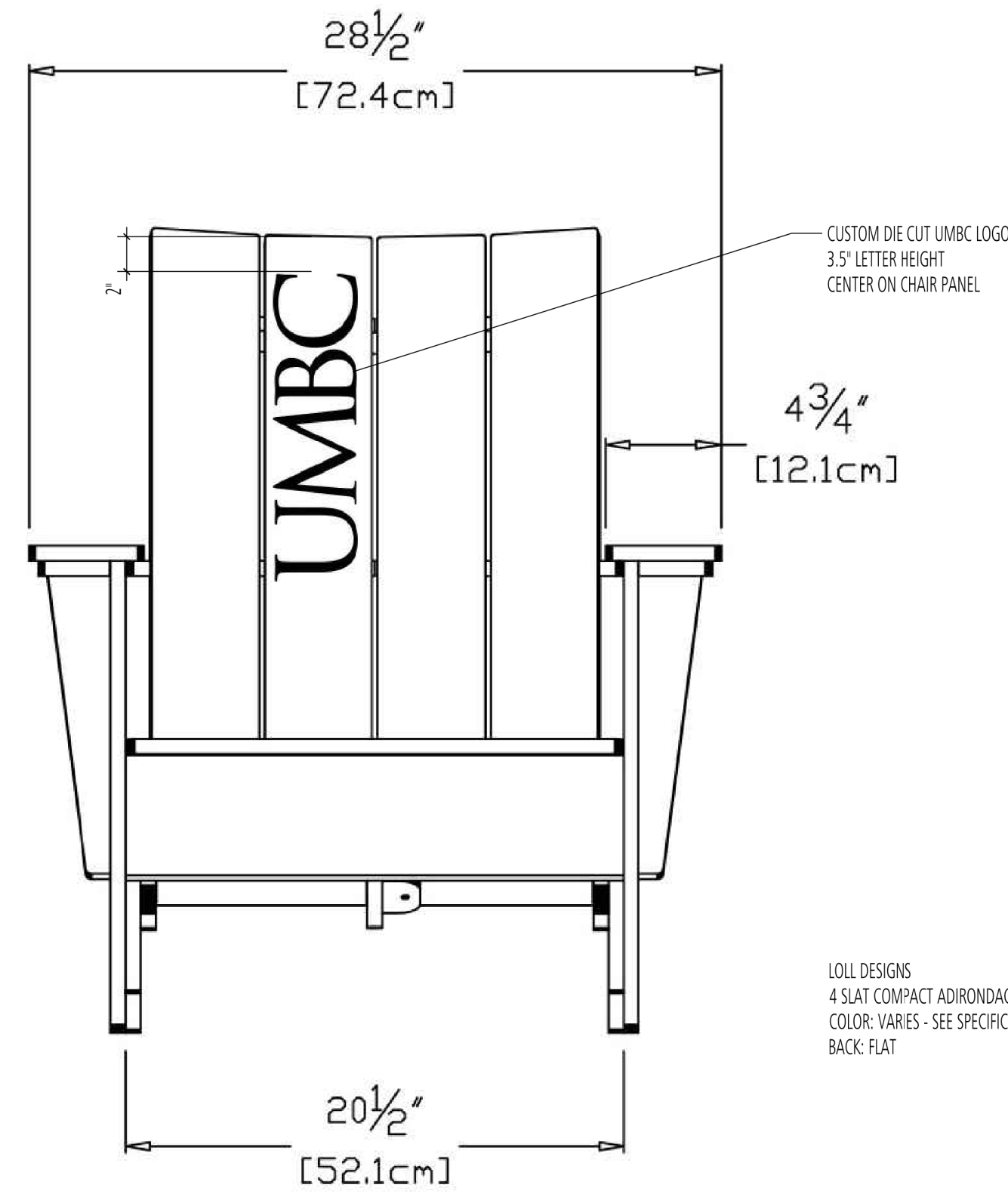


4 GRILL STATION
SECTION

d-filename.dwg
SCALE: 1/2" = 1'-0"

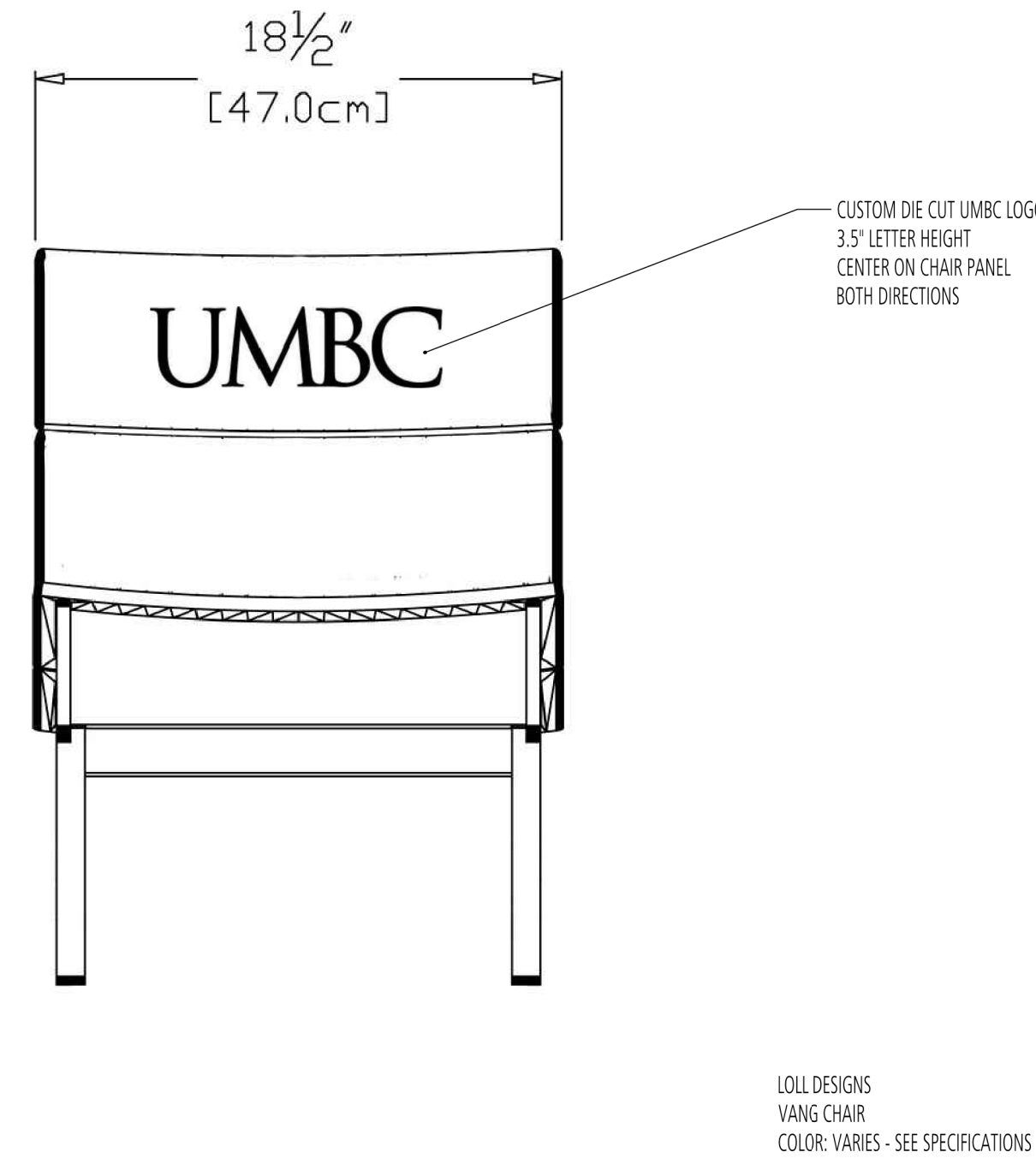
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DATE: 02/12/2024 SCALE:



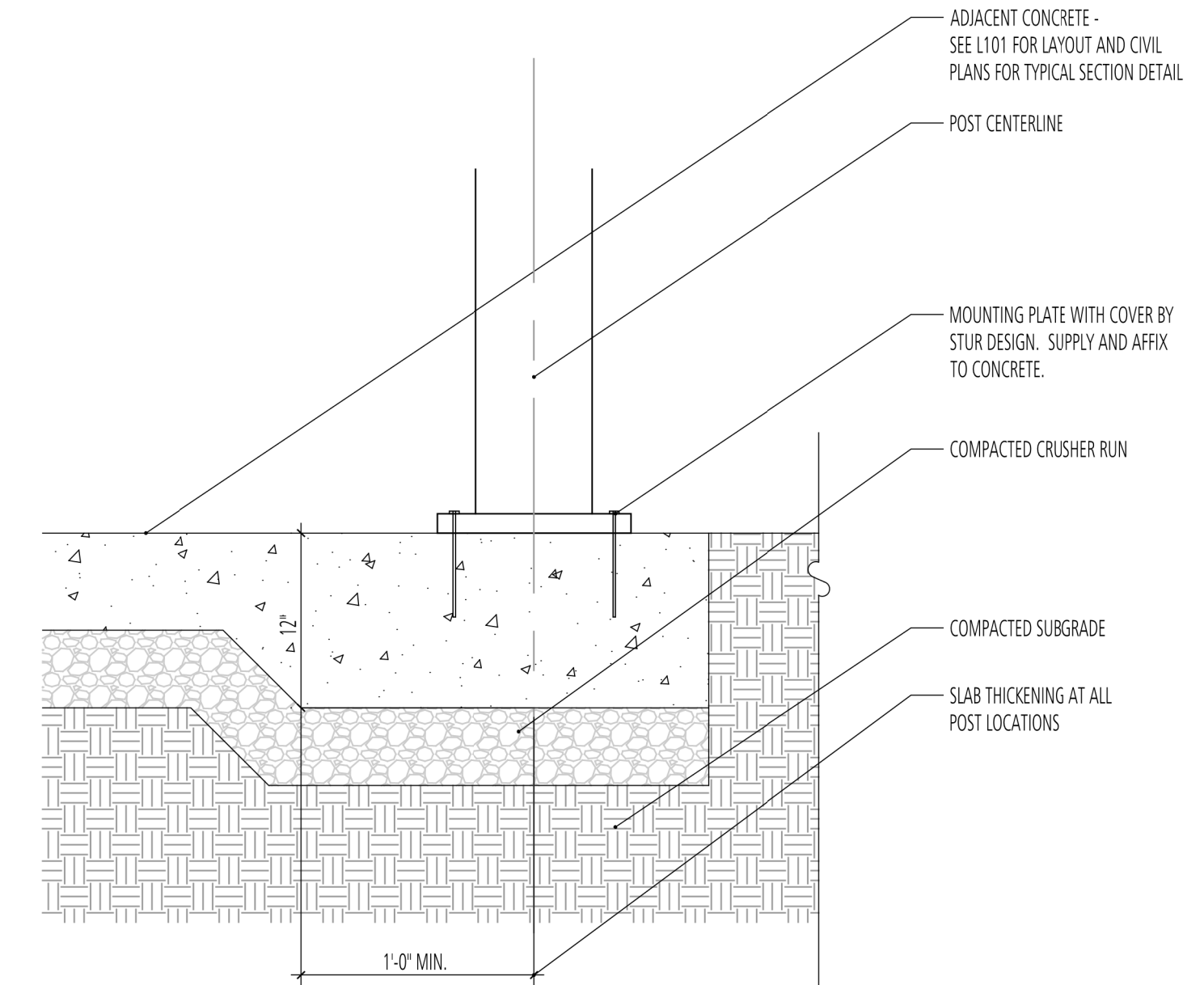
1 ADIRONDACK CHAIR - TYPICAL BRANDING

SCALE: NTS



2 LOUNGE CHAIR

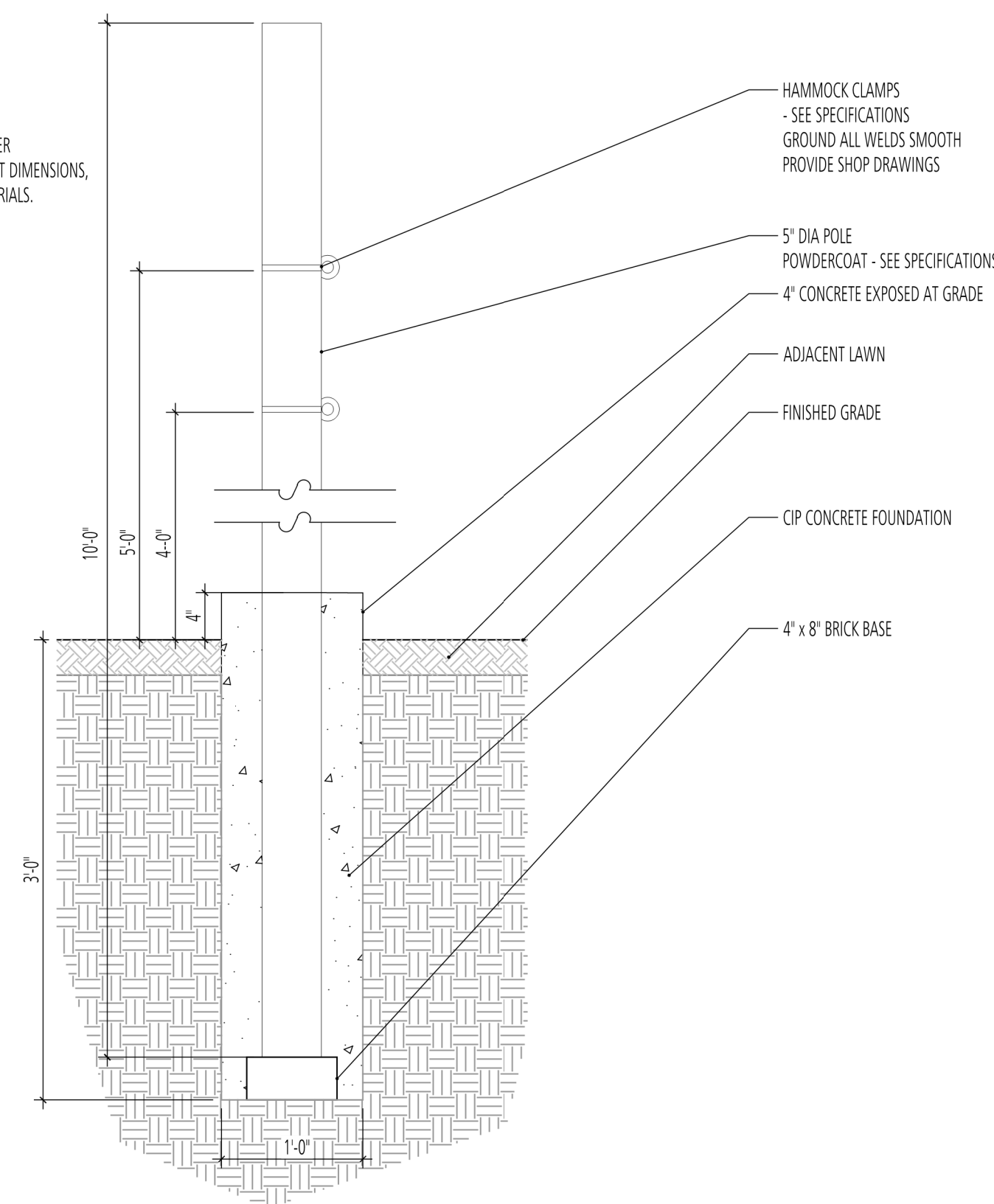
SCALE: NTS



3 PERGOLA MOUNTING

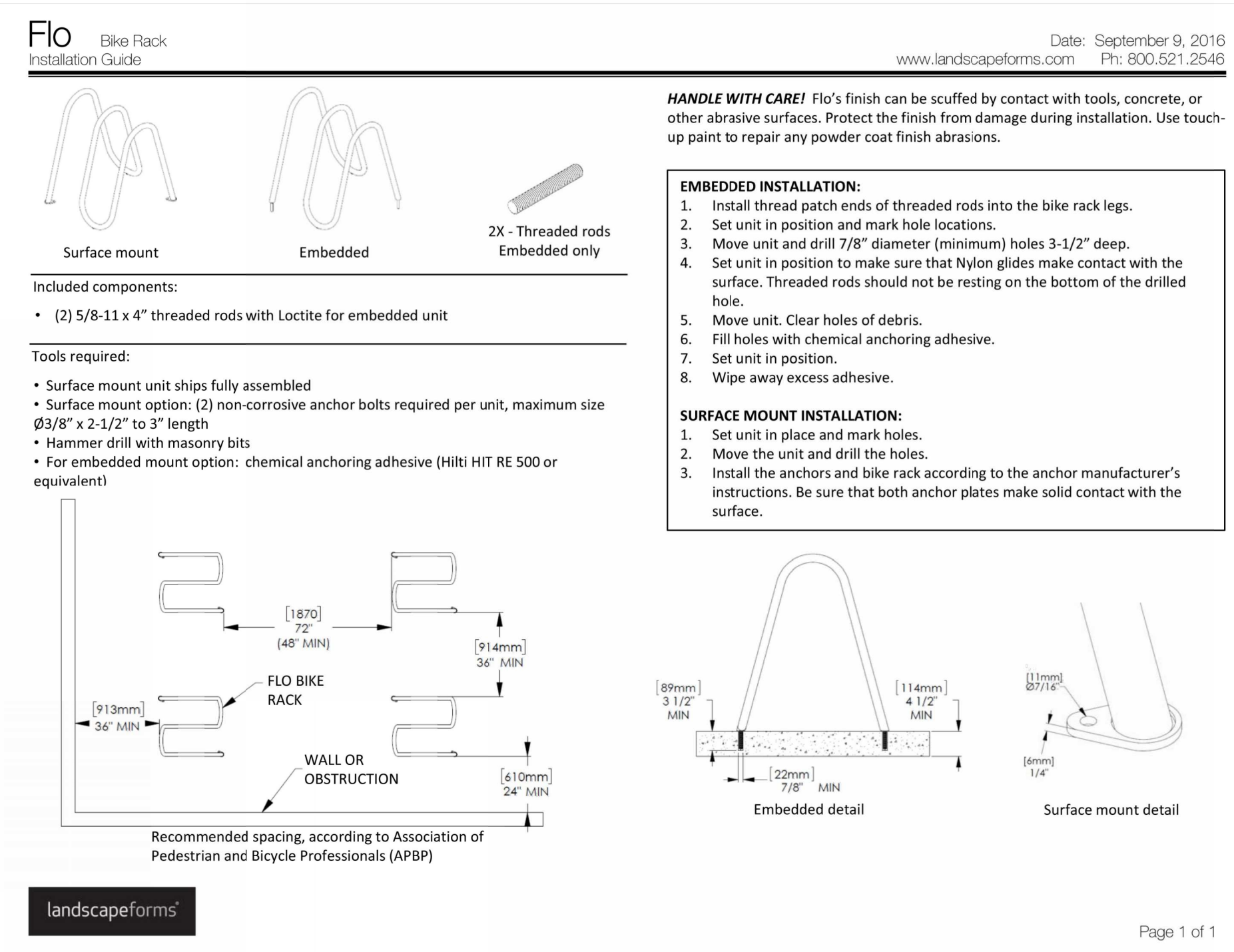
SCALE: 1-1/2" = 1'-0"

NOTES:
1. FOOTING SHOWN APPROXIMATE.
2. PROVIDE SHOP DRAWINGS PREPARED BY AND SEALED BY A QUALIFIED PROFESSIONAL ENGINEER FOR THE FOOTER AND POST INCLUDING ALL RELEVANT DIMENSIONS, CONNECTIONS, INSTALLATION METHODS, AND MATERIALS.



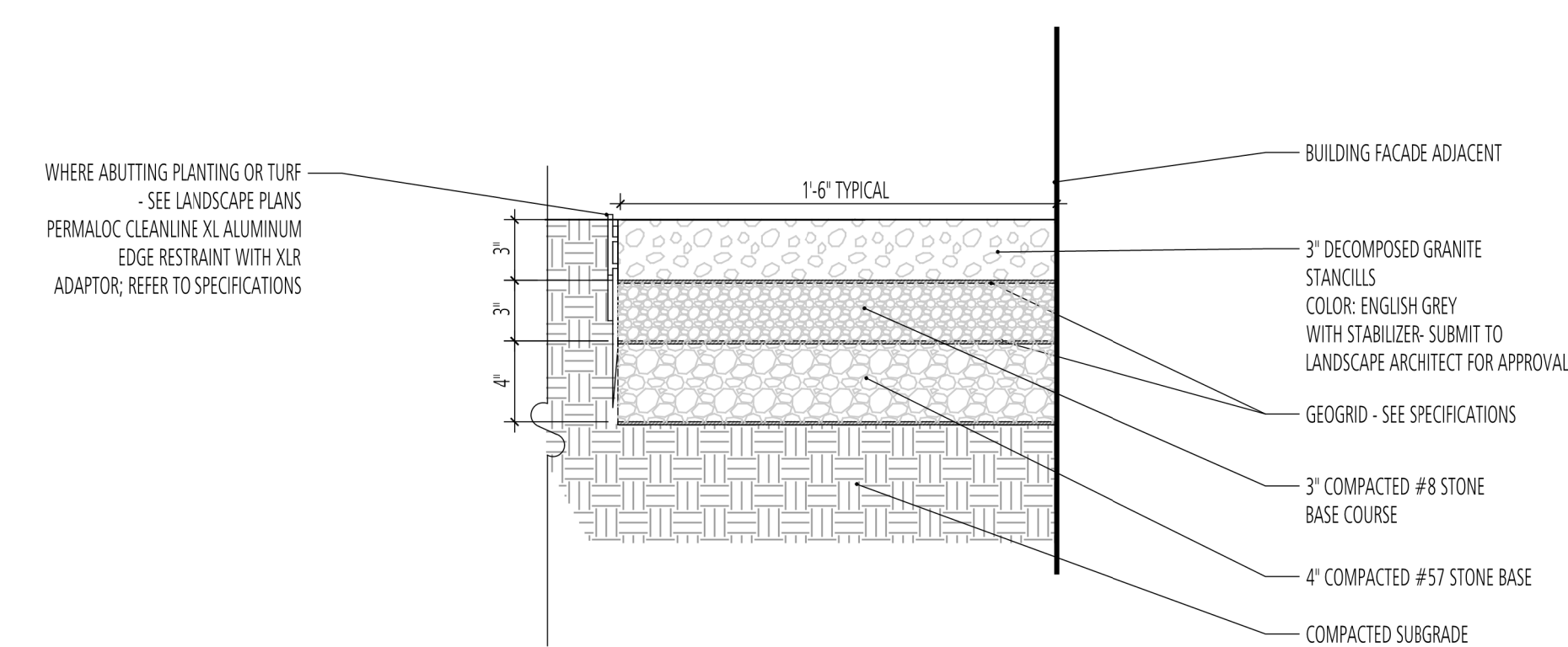
4 HAMMOCK POLE FOOTING

d-filename.dwg
SCALE: 1" = 1'-0"



5 BIKE RACK INSTALLATION

SCALE: 1-1/2" = 1'-0"



6 MOW STRIP

SCALE: 1-1/2" = 1'-0"

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DATE: 02/12/2024 SCALE:

**HARBOR COURTYARD
IMPROVEMENTS**

UMBC Project No.: 20-103
A/E Project No.: 17-0782.004



A. MORTON THOMAS AND ASSOCIATES, INC.
CONSULTING ENGINEERS
700 KING FARM BOULEVARD, SUITE 300
ROCKVILLE, MD 20850
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EMAIL: AMT1@AMTENGINEERING.COM



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UNDER THE LAWS OF THE STATE OF MARYLAND,
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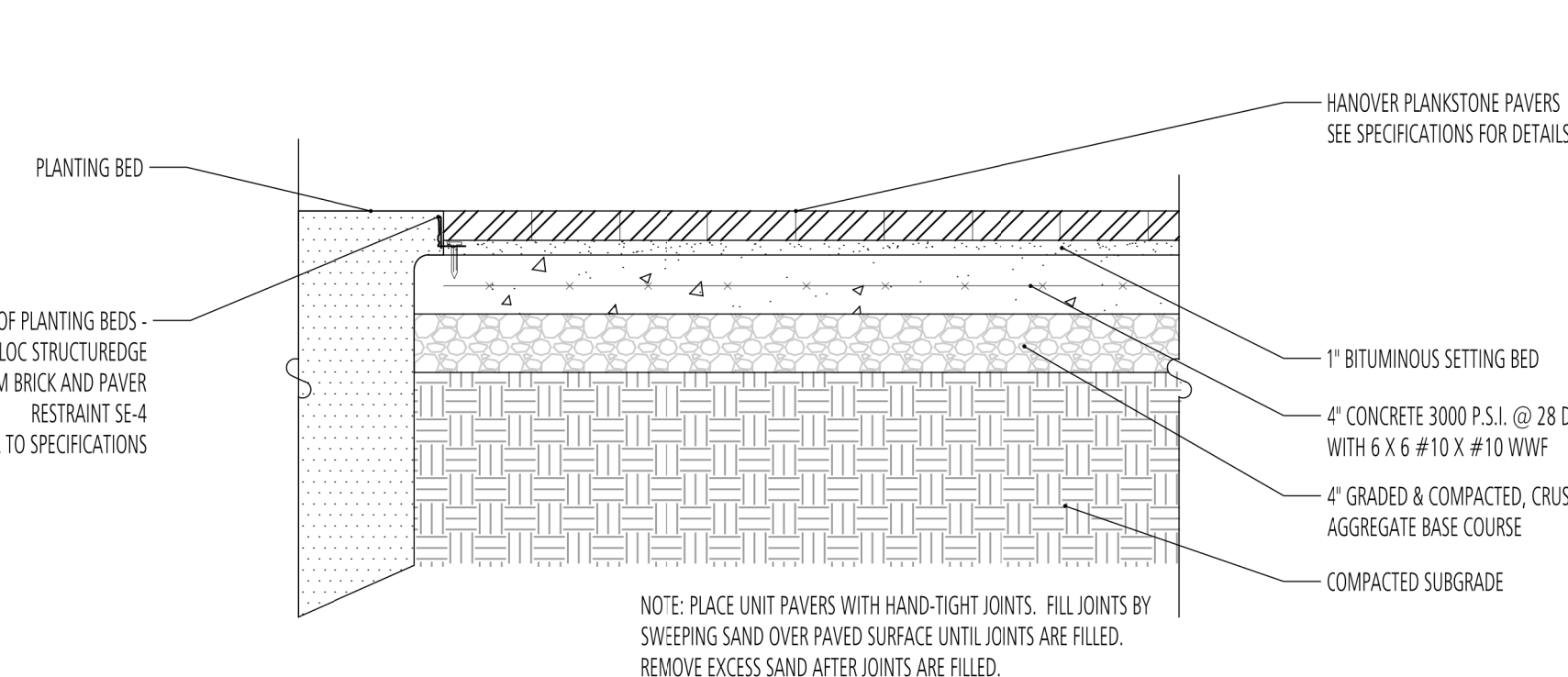
LANDSCAPE ARCHITECTURE
FLORA TEETER LANDSCAPE ARCHITECTS

ELECTRICAL ENGINEERING
WFT ENGINEERING, INC.

STRUCTURAL ENGINEERING
CARROLL ENGINEERING

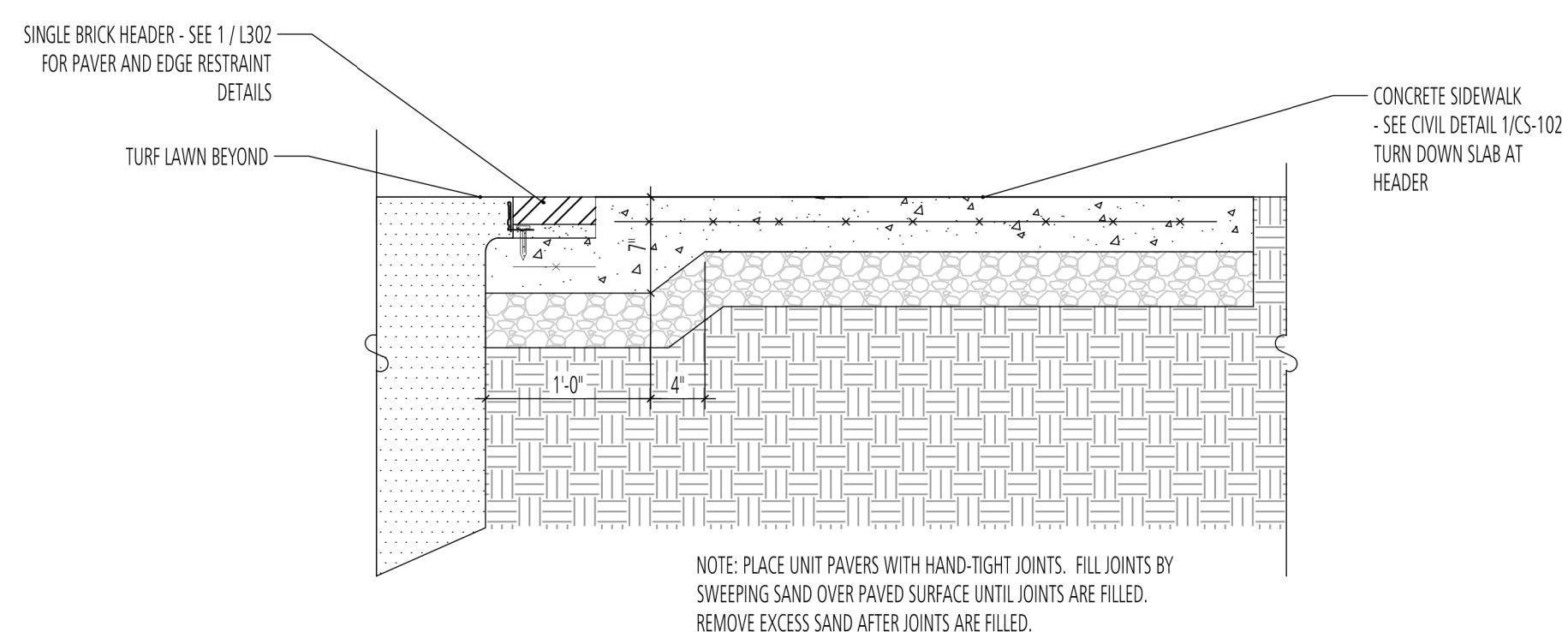
GEOTECHNICAL SERVICES
KIM ENGINEERING

COST ESTIMATING
FORELLA GROUP, LLC



1 PAVER INSTALLATION
SECTION

SCALE: 1"=1'-0"



2 COURTYARD WALK WITH BRICK HEADER
SECTION

SCALE: 1"=1'-0"

REV	DATE	DESCRIPTION
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		SCHEMATIC DESIGN

DATE: 02/12/2024 SCALE:

SITE DETAILS

HARBOR COURTYARD IMPROVEMENTS

UMBC Project No.: 23-126
A/E Project No.: 17-0782.004



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EMAIL: AMT1@AMTENGINEERING.COM



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FLORA TEETER LANDSCAPE ARCHITECTS

ELECTRICAL ENGINEERING
WFT ENGINEERING, INC.

GEOTECHNICAL SERVICES
KIM ENGINEERING

COST ESTIMATING
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08/24/2023		DESIGN DEVELOPMENT
06/13/2023		SCHEMATIC DESIGN

DATE: 02/12/2024 SCALE:

COVER SHEET

EL-000

LIGHTING FIXTURE SCHEDULE

FIXT. TYPE	FIXT. ID	DESCRIPTION	MFR.	CATALOG NO.	LAMPS	TYPE	VOLTS	NO. WATTS	MTG.	REMARKS
A		PEDESTRIAN POLE LIGHT	LUMINIS	EC811-XM4527ML1W65 WITH PAA412-CS-FS POLE	4000K LED INCLUDED	LED	208	60	GROUND	UMBC CHAMPANE AKZO NOBEL COLOR #CM-317-SEMI
B		LIGHTED BOLLARD	FORMS + SURFACES	HELIO BOLLARD LBLHO-603	4000K LED INCLUDED	LED	208	14	GROUND	UMBC CHAMPANE AKZO NOBEL COLOR #CM-317-SEMI

NOTES:

- ALL LIGHTING FIXTURES SHALL BE APPROVED BY THE ENGINEER AND UMBC PRIOR TO ORDERING AND INSTALLATION. REFER TO LANDSCAPE DRAWINGS FOR ADDITIONAL INFORMATION
- REFER TO FIXTURE SPECIFICATION FOR FABRICATION AND MOUNTING DETAILS.
- PROVIDE ALL CONDUIT, WIRING, LAMPS, DRIVERS, TRANSFORMERS, CONTACTORS AND CONTROL CONNECTIONS AS REQUIRED FOR A COMPLETE AND OPERATIONAL LIGHTING SYSTEM.
- PROVIDE HOUSE SIDE SHIELD FOR TYPE A FIXTURES AS INDICATED ON PLANS

ABBREVIATIONS

AFF	ABOVE FINISHED FLOOR
AS	ABOVE SLAB
CL	CENTERLINE
E	EXISTING TO REMAIN
E.C.	EMPTY CONDUIT
E.G.	EQUIPMENT GROUND
R	RELOCATED, SHOWN IN NEW LOCATION
ER	EXISTING TO BE RELOCATED
X	EXISTING TO BE REMOVED
G	GROUND
GFCI	GROUND FAULT CIRCUIT INTERRUPTOR
IG	ISOLATED GROUND
N	NEW
No.	NUMBER
P	POLE
PNL	PANEL
U.O.N.	UNLESS OTHERWISE NOTED
V	VOLTS
VIF	VERIFY IN FIELD
W	WIRE
∅	PHASE
N.I.C.	NOT IN CONTRACT
GFI	GROUND FAULT CIRCUIT INTERRUPTER

ELECTRICAL SYMBOLS

SYMBOL	DESCRIPTION	MTG. HT. TO Q. OF DEVICE U.O.N.
	HOMERUN TO PANELBOARD - NUMBER OF ARROWHEADS INDICATES NUMBER OF CIRCUITS. NUMERAL AND LETTERS ADJACENT TO ARROWHEADS INDICATE ASSIGNED PANEL AND CIRCUIT NUMBERS. TICK MARKS IN CIRCUITRY INDICATE QUANTITY OF No. 8 CONDUCTORS. (T) CHECK MARK IN CIRCUITRY INDICATES GROUND CONDUCTOR. CIRCUITRY WITH NO TICK MARKS INDICATES 2#8 CONDUCTORS + GROUND. REFER TO PANEL SCHEDULE FOR FURTHER INFORMATION	
	ELECTRIC MANHOLE	
	TELECOMMUNICATIONS MANHOLE	
	DUPLEX RECEPTACLE - NEMA 5-20R, GFI WITH IN-USE WEATHERPROOF COVER	
	LED POLE MOUNTED PEDESTRIAN LIGHTS,	
	LED BOLLARD LIGHT	
	TELECOMMUNICATIONS HANDHOLE	
	ELECTRIC HANDHOLE	
	ELECTRIC POWER PEDESTAL	
	LOW VOLTAGE LIGHTING TRANSFORMER IN ELECTRIC HANDHOLE	
	ELECTRIC PULLBOX	
	ELECTRIC PANELBOARD	
	ELECTRIC CONNECTION TO SITE FURNISHINGS, 120V, 20A, UNLESS NOTED OTHERWISE	

(E) RGC

PANELBOARD SCHEDULE SECTION 1

OR #	TYPE	DESCRIPTION	WIRE SIZE	PHASE WIRE		NEUTRAL		AIC	MAIN				FEED THRU LUGS		MOUNTING SURFACE	ENCLOSURE NEMA 1	TYPE	OR #
				COND. SIZE	NOTE	C.B. AMP	P		LOAD (KVA)	PHASE	LOAD (KVA)	P	C.B. AMP	NOTE				
1	(E) LTG. EXTERIOR			1	20	1	A		1	20	1				(E) REC. 117,117A,119		2	
3	(E) LTG. 119			1	20	1	B		1	20	1				(E) REC. 117,119		4	
5	(E) LTG. 117,117B,1R1,1R2			1	20	1	C		1	20	1				(E) REC. 1V2,1V3,118,118		8	
7	(E) LTG. EXTERIOR			1	20	1	A		1	20	4	3/4"	2#12+1#12G	(E) LIGHTING CONTACTOR		8		
9	(E) LTG. EXTERIOR			1	20	1	B		2	20	1			(E) LTG. STREET		10		
11	(E) LTG. STREET			1	20	2	C										12	
13	(E) LTG. STREET			1	20	2	A										14	
15	(N) LTG. COURTYARD	2#8+1#8G	1"	4	20	2	B		2	20	1			(E) LTG. STREET		16		
17	(N) LTG. COURTYARD	2#8+1#8G	1"	4	20	2	C		1	20	1			(E) REC. MAIN ELEC RM		18		
19	(N) LTG. COURTYARD	2#8+1#8G	1"	4	20	2	A		1	20	4	1"	2#8+1#8G	(N) REC. OUTSIDE		20		
21	(N) LTG. COURTYARD	2#8+1#8G	1"	4	20	2	B		1	20	4	1"	2#8+1#8G	(N) REC. OUTSIDE		22		
23	(E) REC. 117B RANGE			1	50	2	C		1	20	4	1"	2#8+1#8G	(N) REC. OUTSIDE		24		
25	(E) REC. KITCHEN			1	20	1	A		1	20	1			SPARE		26		
27	(E) REC. KITCHEN			1	20	1	B		1	20	1			(E) REC. WATER COOLER		28		
29	(E) LTG. CORRIDOR			1	20	1	C		2	20	1			(E) ROOM 118, BB-6, BB-7		30		
31	(E) REC. KITCHEN			1	20	1	A							(E) LTG. COURTYARD BACK ROAD		32		
33	(E) REC. KITCHEN			1	20	1	B		2	20	1			(E) LTG. COURTYARD		34		
35	NEW COURTYARD EVENT RECEPTACLE	4#4+1#4	2"	3	50	3	C							(E) LTG. COURTYARD		36		
37	SPARE			1	20	1	A		1	20	4			(E) LTG. COURTYARD		38		
39				1	20	1	B		1	20	4			(E) LTG. COURTYARD		40		
41				1	20	1	C		1	20	4			(E) LTG. COURTYARD		42		

NOTES:

- EXISTING LOAD TO REMAIN.
- RE-USE AVAILABLE SPARE CIRCUIT BREAKER.
- PROVIDE NEW CIRCUIT BREAKER IN EXISTING SPACE. MATCH EXISTING TYPE.
- CIRCUIT BREAKER MADE SPARE DURING DEMO PHASE.

HARBOR COURTYARD IMPROVEMENTS

UMBC Project No.: 23-126
 A/E Project No.: 17-0782.004



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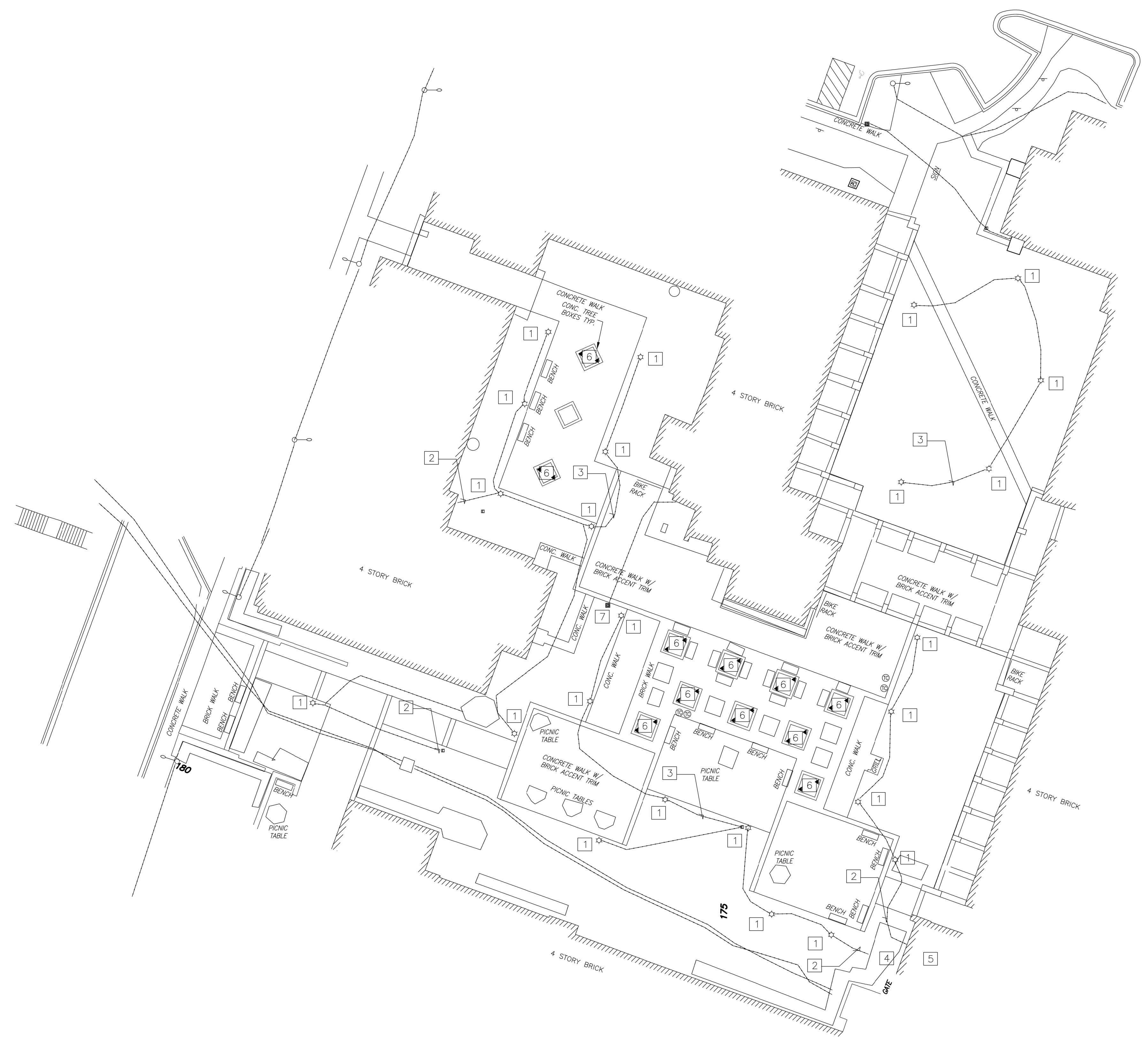
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CONSULTANTS

- LANDSCAPE ARCHITECTURE
 FLOURA TEETER LANDSCAPE ARCHITECTS
- ELECTRICAL ENGINEERING
 WFT ENGINEERING, INC.
- GEOTECHNICAL SERVICES
 KIM ENGINEERING
- COST ESTIMATING
 FORELLA GROUP, LLC

NOTES

- 1 EXISTING POLE LIGHTS AND BASES TO BE REMOVED.
- 2 EXISTING WIRING FOR COURTYARD LIGHTING TO BE REMOVED BACK TO SOURCE PANEL. MAINTAIN CONTINUITY OF EXISTING CIRCUITS TO REMAIN. PATCH EXISTING PENETRATIONS THROUGH BUILDING ENVELOPE.
- 3 EXISTING SITE LIGHTING WIRING & CONDUIT TO BE REMOVED, TYPICAL. COORDINATE WITH CIVIL AND LANDSCAPE WORK.
- 4 ALL OF THE NEW SITE LIGHTING WILL BE FED FROM THIS AREA. REMOVE EXISTING CONDUITS BACK TO BUILDING WALL TO ACCOMMODATE CIVIL AND LANDSCAPE.
- 5 LOCATION OF EXISTING ELECTRICAL PANEL AND SITE LIGHTING CONTROLS.
- 6 EXISTING GROUND MOUNTED LIGHTS TO BE REMOVED.
- 7 EXISTING EMERGENCY CALL BOX TO BE REMOVED. REFER TO NEW WORK DRAWING FOR LOCATION OF NEW CALL BOX.



REV	DATE	DESCRIPTION
		RECORD SET
		AS-BUILT / CONFORMING SET
02/12/2024		100% CONSTRUCTION SET
12/08/2023		95% CONSTRUCTION SET
10/26/2023		50% CONSTRUCTION SET
08/24/2023		DESIGN DEVELOPMENT
06/13/2023		SCHEMATIC DESIGN

DATE: 02/12/2024 SCALE: 1"=20'

EXISTING AND DEMO PLAN

EL-001

**HARBOR COURTYARD
IMPROVEMENTS**

UMBC Project No.: 23-126
A/E Project No.: 17-0782.004



A. MORTON THOMAS AND ASSOCIATES, INC.
CONSULTING ENGINEERS
700 KING FARM BOULEVARD, SUITE 300
ROCKVILLE, MD 20850
PHONE (301) 881-2545 | FAX (301) 881-0814
EMAIL: AMT1@AMTENGINEERING.COM



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. 20021,
EXPIRATION DATE 04/24/25

100% CONSTRUCTION DOCUMENTS

CONSULTANTS

LANDSCAPE ARCHITECTURE
FLOURA TEETER LANDSCAPE ARCHITECTS

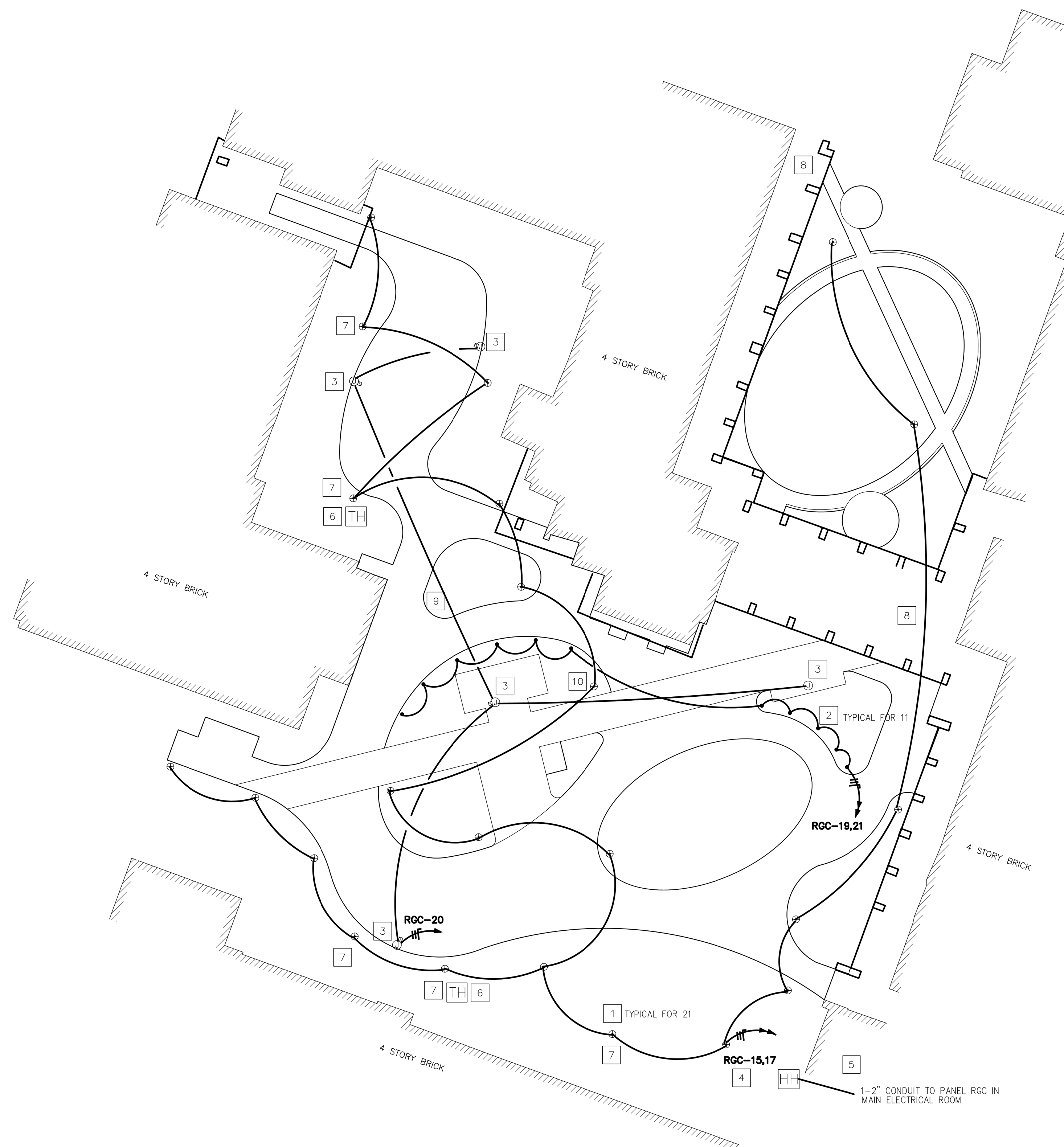
ELECTRICAL ENGINEERING
WFT ENGINEERING, INC.

GEOTECHNICAL SERVICES
KIM ENGINEERING

COST ESTIMATING
FORELLA GROUP, LLC

NOTES

- 1 NEW PEDESTRIAN POLE LIGHTS AND CONCRETE BASES, TYPICAL.
- 2 NEW LIGHTED BOLLARD AND APPROVED BASE, TYPICAL.
- 3 NEW 120V, 20A CONNECTION TO SITE FURNITURE AND FURNISHINGS.
- 4 PROVIDE ELECTRICAL HANDHOLE FOR HOMERUNS TO PANEL.
- 5 EXISTING PANEL RGC, 208/120V SERVING NEW COURTYARD POWER AND LIGHTING BRANCH CIRCUITS
- 6 PROVIDE WIFI ACCESS POINT MOUNTED TO NEW LIGHTING POLE. PROVIDE IT HANDHOLE WITH 1.5" CONDUIT FROM THE CLOSEST INTERIOR IT CLOSET TO THE HANDHOLE. CONDUIT SHALL BE SCHEDULE 40 PVC DIRECT BURIED ON EXTERIOR AND EMT ON INTERIOR. COORDINATE CONDUIT ROUTING FROM HANDHOLE TO SITE POLE FOUNDATIONS TO ENSURE THAT POLE BASE CAN ACCOMMODATE REQUIRED CONDUITS. PROVIDE WIRING AND POE CONNECTIONS FOR PROPER OPERATION. COORDINATE WITH UMBC FOR ALL REQUIREMENTS FOR INTERFACING WITH EXISTING SYSTEMS.
- 7 PROVIDE HOUSE-SIDE SHIELD FOR FIXTURE ADJACENT TO RESIDENTIAL ROOM.
- 8 PROVIDE WI-FI ACCESS POINT AT CEILING OF EXISTING BREEZEWAY. PROVIDE 1.5" CONDUIT FROM THE CLOSEST INTERIOR IT CLOSET TO THE ACCESS POINT. CONDUIT SHALL BE EMT ON INTERIOR. PROVIDE WIRING AND POE CONNECTIONS FOR PROPER OPERATION. COORDINATE WITH UMBC FOR ALL REQUIREMENTS FOR INTERFACING WITH EXISTING SYSTEMS.
- 9 PROVIDE NEW EMERGENCY CALLBOX TO REPLACE EXISTING IN NEW LOCATION. CODE BLUE CB1-S SERIES WITH OVERHEAD CAMERA MOUNT. PROVIDE WIRING AND POE CONNECTIONS FOR PROPER OPERATION. COORDINATE WITH UMBC FOR ALL REQUIREMENTS FOR INTERFACING WITH EXISTING SYSTEMS.
- 10 PROVIDE HUBBELL POWER RECEPTACLE, MODEL CS6369, 50A, 208/120V, 3 POLE, 4 WIRE RECEPTACLE IN LOCKABLE, WEATHER PROOF ENCLOSURE ON NEW LIGHTING POLE. PROVIDE 4#4 +1#4G IN 2" TO 50A, 3 POLE CB IN PANEL RP-2



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NEW WORK SITE PLAN

HARBOR COURTYARD IMPROVEMENTS

UMBC Project No.: 23-126
A/E Project No.: 17-0782.004



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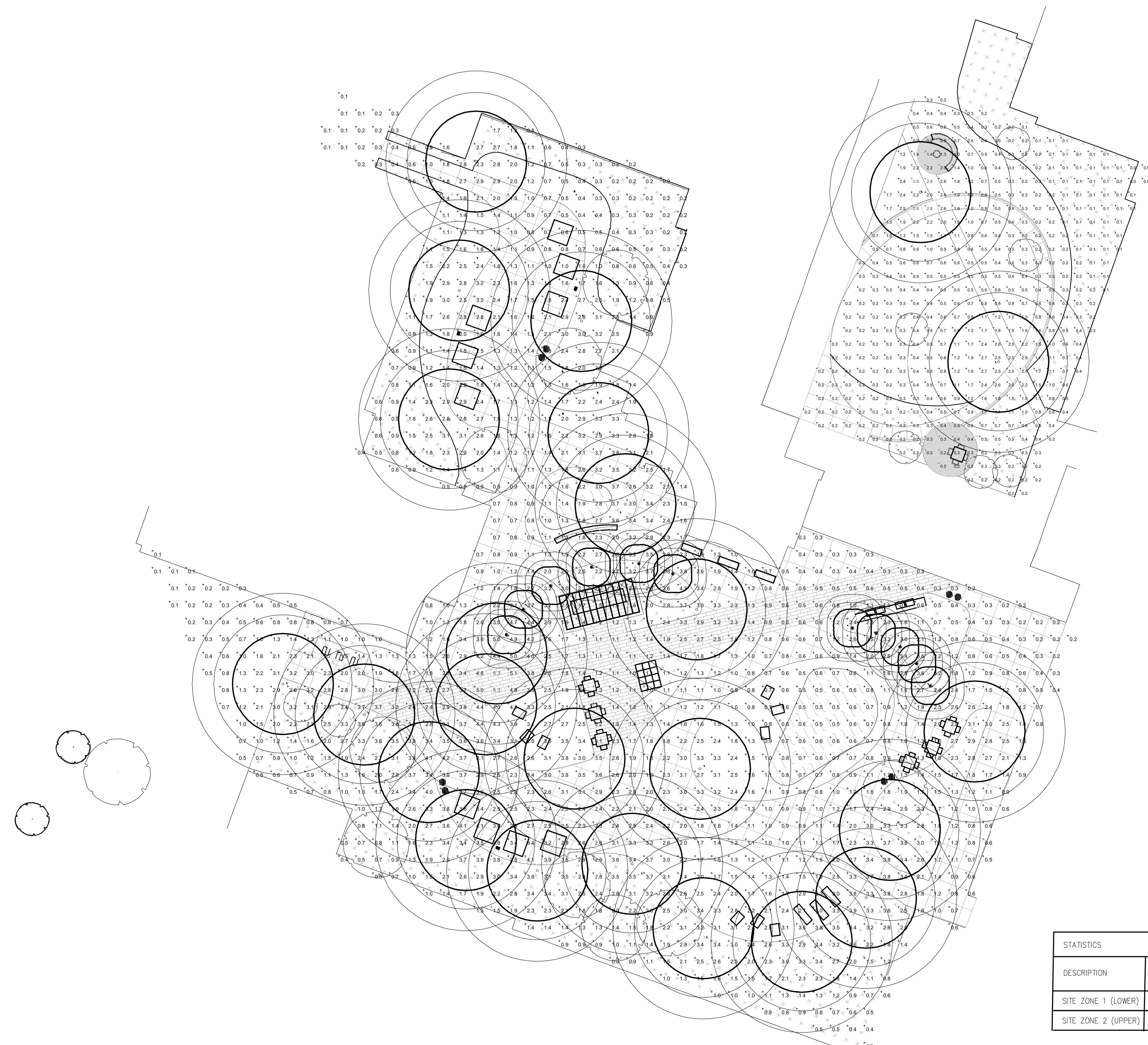


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CONSULTANTS

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FLORA TEETER LANDSCAPE ARCHITECTS
- ELECTRICAL ENGINEERING
WFT ENGINEERING, INC.
- GEOTECHNICAL SERVICES
KIM ENGINEERING
- COST ESTIMATING
FORELLA GROUP, LLC



STATISTICS						
DESCRIPTION	SYMBOL	AVG	MAX	MIN	MAX/MIN	AVG/MIN
SITE ZONE 1 (LOWER)	+	1.8 FC	5.3 FC	0.1 FC	53:1	18.1
SITE ZONE 2 (UPPER)	+	0.7 FC	2.8 FC	0.1 FC	28:1	7:1

SCHEDULE											
SYMBOL	LABEL	QTY	MANUFACTURER	CATALOG NUMBER	DESCRIPTION	LAMP	NUMBER LAMPS	FILENAME	LUMENS PER LAMP	LLF	WATTAGE
○	A	21	LUMINIS CANADA INC.	EC811-L1W65	ECLIPSE MAXI EC811 WITH DISH	((1) BRIDGELUX BXR-40E10K0-L) WHITE 62W SSL C/W INVENTRONICS DRIVER EUC-0755140DT @ 120V	1	EC811-L1W65.IES	4554	1	60.11
○	B	11	FORMS+SURFACES	LBRN-LED	RINCON BOLLARD	14W CUSTOM LIGHT ENGINE, CREE XHB LED, 3000K/4000K	128	LBRN_LED_NS.IES	12	1	13.85

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LIGHTING CALCULATION - NEW WORK

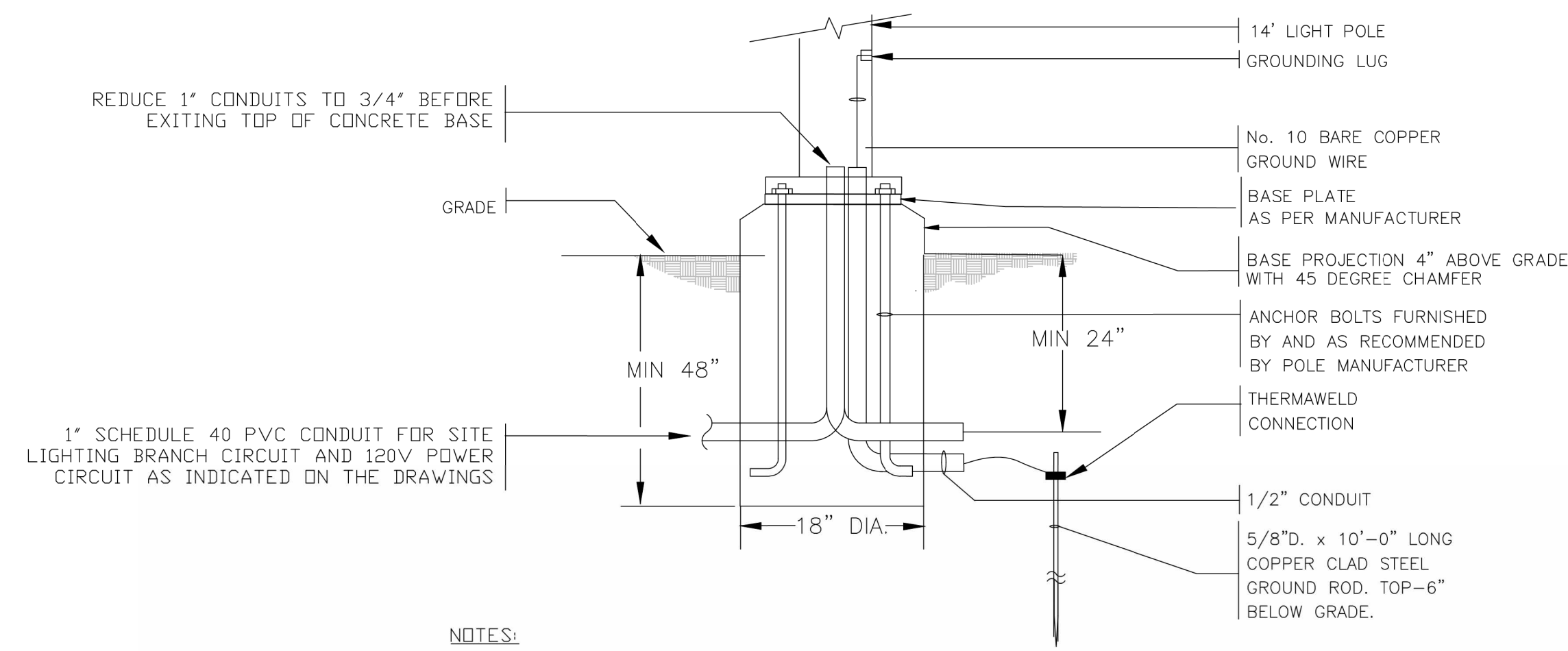


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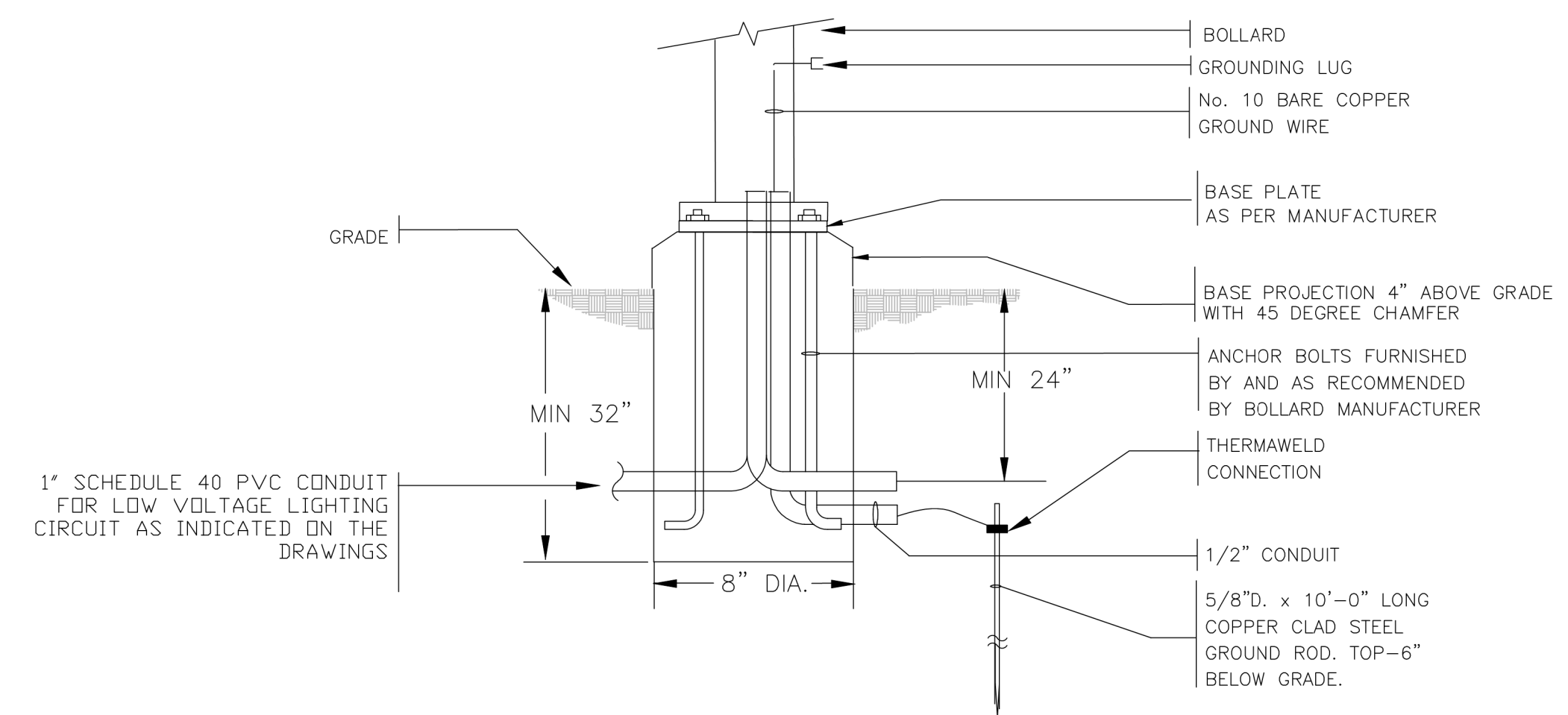
- LANDSCAPE ARCHITECTURE
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NOTES:

1. POLE BASE SHALL BE RUBBED AND GROUND BETWEEN BASE AND LEVELING PLATE.
2. FINAL DEPTH AND DIAMETER OF POLE BASE SHALL BE APPROVED BY STRUCTURAL ENGINEER PRIOR TO COMMENCEMENT OF WORK.

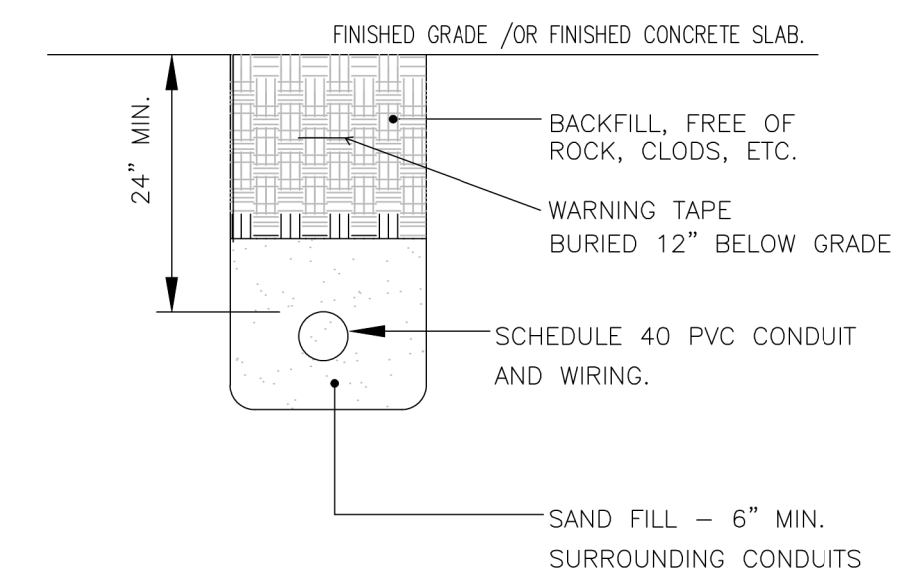
1 POLE BASE DETAIL FOR POLE LIGHT
EL-004 NOT TO SCALE



2 POLE BASE DETAIL FOR BOLLARD
EL-004 NOT TO SCALE



3 EXISTING SITE LIGHTING CONTROLS
EL-004 NOT TO SCALE



NOTE:

PITCH TO DRAIN WEEP HOLE AT LOW POINTS

4 DIRECT BURIED SITE LIGHTING CONDUITS
EL-004 NOT TO SCALE

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DETAILS

EL-004