

WAREHOUSE/INDUSTRIAL DEVELOPMENT SITE DEVELOPMENT PLANS

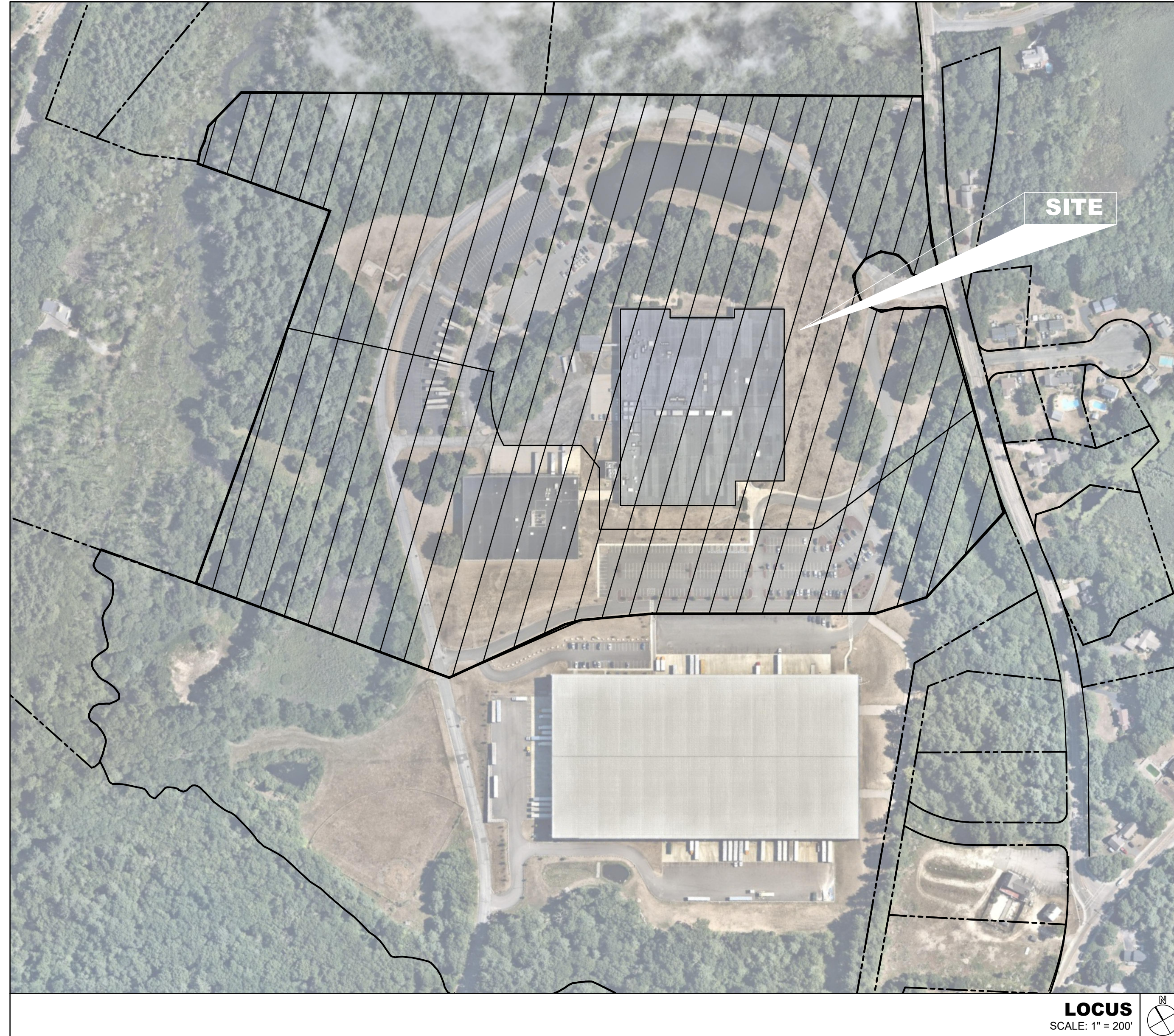
100/200 FINANCIAL PARK FRANKLIN, MASSACHUSETTS

PERMIT SET: MAY 11, 2023



CLIENT:
Berkeley Partners
1 WASHINGTON MALL | Suite 701
BOSTON, MA 02108

CONSULTANT:



SITE

APPLICANT:

BERKELEY PARTNERS
1 WASHINGTON MALL | SUITE 701
BOSTON, MA 02108

OWNER/APPLICANT:

OWNER ICBP IV HOLDINGS 34, LLC
CO-OWNER C/O BERKELEY PARTNERS
ADDRESS 1111 BROADWAY | SUITE 1670
OAKLAND, CA 94607

ASSESSOR'S ID:

100 FRANKLIN STREET
BOOK - 40397
PAGE - 34
MAP - 312
PARCEL 020-000-000

200 FRANKLIN STREET
BOOK - 36923
PAGE - 217
MAP - 312
PARCEL 020-001-000

ZONE INDUSTRIAL

LOCUS
SCALE: 1" = 200'

PROJECT TEAM

CIVIL ENGINEER: HIGHPOINT ENGINEERING, INC.
980 WASHINGTON STREET | SUITE 216
DEDHAM, MA 02026
TEL: (781) 770-0970
ATTN: Douglas Hartnett
www.highpointeng.com

**LAND SURVEYOR/
WETLAND CONSULTANT:** HANCOCK ASSOCIATES
315 ELM STREET
MARLBOROUGH, MA 01752
TEL: (508) 460-1111

TRAFFIC CONSULTANT: MDM TRANSPORTATION CONSULTANTS
28 LORD ROAD
MARLBOROUGH, MA 01752
TEL: (508) 380-9088

ARCHITECT: RODE ARCHITECTS
535 ALBANY STREET, #405
BOSTON, MA 02118
www.rodearchitects.com

LANDSCAPE ARCHITECT: MICHAEL D'ANGELO
LANDSCAPE ARCHITECTS
840 SUMMER STREET | SUITE 201A
BOSTON, MA 02110

INDEX OF DRAWINGS

| | | PERMIT SET MAY 11, 2023 | RESPONSE TO COMMENTS JULY 17, 2023 | RESPONSE TO COMMENTS AUGUST 14, 2023 | RESPONSE TO COMMENTS AUGUST 25, 2023 | RESPONSE TO COMMENTS OCTOBER 9, 2023 |
|----------------|---|----------------------------|---------------------------------------|---|---|---|
| GENERAL | | | | | | |
| T100 | TITLE SHEET | • | • | • | • | • |
| EC-1 | LIMITED/COMPILED EXISTING CONDITIONS PLAN COVER SHEET (BY OTHERS) | • | • | • | • | • |
| EC-1 | LIMITED/COMPILED EXISTING CONDITIONS PLAN OF LAND IN FRANKLIN, MA (BY OTHERS) | • | • | • | • | • |
| EC-2 | LIMITED/COMPILED EXISTING CONDITIONS PLAN OF LAND IN FRANKLIN, MA (BY OTHERS) | • | • | • | • | • |
| EC-3 | LIMITED/COMPILED EXISTING CONDITIONS PLAN OF LAND IN FRANKLIN, MA (BY OTHERS) | • | • | • | • | • |
| EC-4 | LIMITED/COMPILED EXISTING CONDITIONS PLAN OF LAND IN FRANKLIN, MA (BY OTHERS) | • | • | • | • | • |
| G100 | GENERAL NOTES SHEET | • | • | • | • | • |
| C100 | SITE CONFORMANCE PLAN | • | • | • | • | • |
| C101 | KEY SHEET | • | • | • | • | • |
| C200 | SITE PREPARATION & DEMOLITION PLAN | • | • | • | • | • |
| C201 | SITE PREPARATION & DEMOLITION PLAN | • | • | • | • | • |
| C300 | LAYOUT & MATERIALS PLAN | • | • | • | • | • |
| C301 | LAYOUT & MATERIALS PLAN | • | • | • | • | • |
| C400 | GRADING & DRAINAGE PLAN | • | • | • | • | • |
| C401 | GRADING & DRAINAGE PLAN | • | • | • | • | • |
| C500 | UTILITY PLAN | • | • | • | • | • |
| C501 | UTILITY PLAN | • | • | • | • | • |
| O600 | SITE DETAILS | • | • | • | • | • |
| O601 | SITE DETAILS | • | • | • | • | • |
| O602 | SITE DETAILS | • | • | • | • | • |
| O603 | SITE DETAILS | • | • | • | • | • |
| L100 | KEY PLAN | • | • | • | • | • |
| L101 | MATERIALS PLAN | • | • | • | • | • |
| L102 | MATERIALS PLAN | • | • | • | • | • |
| L103 | MATERIALS PLAN | • | • | • | • | • |
| L104 | MATERIALS PLAN | • | • | • | • | • |
| L105 | MATERIALS PLAN | • | • | • | • | • |
| L106 | MATERIALS PLAN | • | • | • | • | • |
| L107 | MATERIALS PLAN | • | • | • | • | • |
| L108 | PLANTING & LIGHTING PLAN | • | • | • | • | • |
| L109 | PLANTING & LIGHTING PLAN | • | • | • | • | • |
| L110 | PLANTING & LIGHTING PLAN | • | • | • | • | • |
| L111 | PLANTING & LIGHTING PLAN | • | • | • | • | • |
| L112 | PLANTING & LIGHTING PLAN | • | • | • | • | • |
| L113 | PLANTING & LIGHTING PLAN | • | • | • | • | • |
| L114 | PLANTING & LIGHTING PLAN | • | • | • | • | • |
| L115 | PLANTING SCHEDULE & DETAILS | • | • | • | • | • |
| L116 | LIGHTING SCHEDULE & CUT SHEETS | • | • | • | • | • |
| L117 | PHOTOMETRIC PLAN | • | • | • | • | • |
| L118 | PHOTOMETRIC PLAN | • | • | • | • | • |
| L119 | PHOTOMETRIC PLAN | • | • | • | • | • |
| L120 | PHOTOMETRIC PLAN | • | • | • | • | • |
| L121 | PHOTOMETRIC PLAN | • | • | • | • | • |
| L122 | PHOTOMETRIC PLAN | • | • | • | • | • |
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| L124 | LANDSCAPE DETAILS | • | • | • | • | • |

WAREHOUSE/INDUSTRIAL DEVELOPMENT
100/200 FINANCIAL PARK
FRANKLIN, MA

OWNER/APPLICANT: BERKELEY PARTNERS

| REV | DATE | DESCRIPTION |
|-----|------------|----------------------|
| 4 | 10-05-2023 | RESPONSE TO COMMENTS |
| 3 | 08-15-2023 | RESPONSE TO COMMENTS |
| 2 | 08-14-2023 | RESPONSE TO COMMENTS |
| 1 | 07-17-2023 | RESPONSE TO COMMENTS |

ISSUE TYPE:
PERMIT SET
ISSUE DATE:
05/11/2023
PROJECT NUMBER:
22051
DRAWN BY: JJP / CCL/ WH
CHECKED BY: DJH
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SHEET TITLE:
T100
SHEET NUMBER:
T100

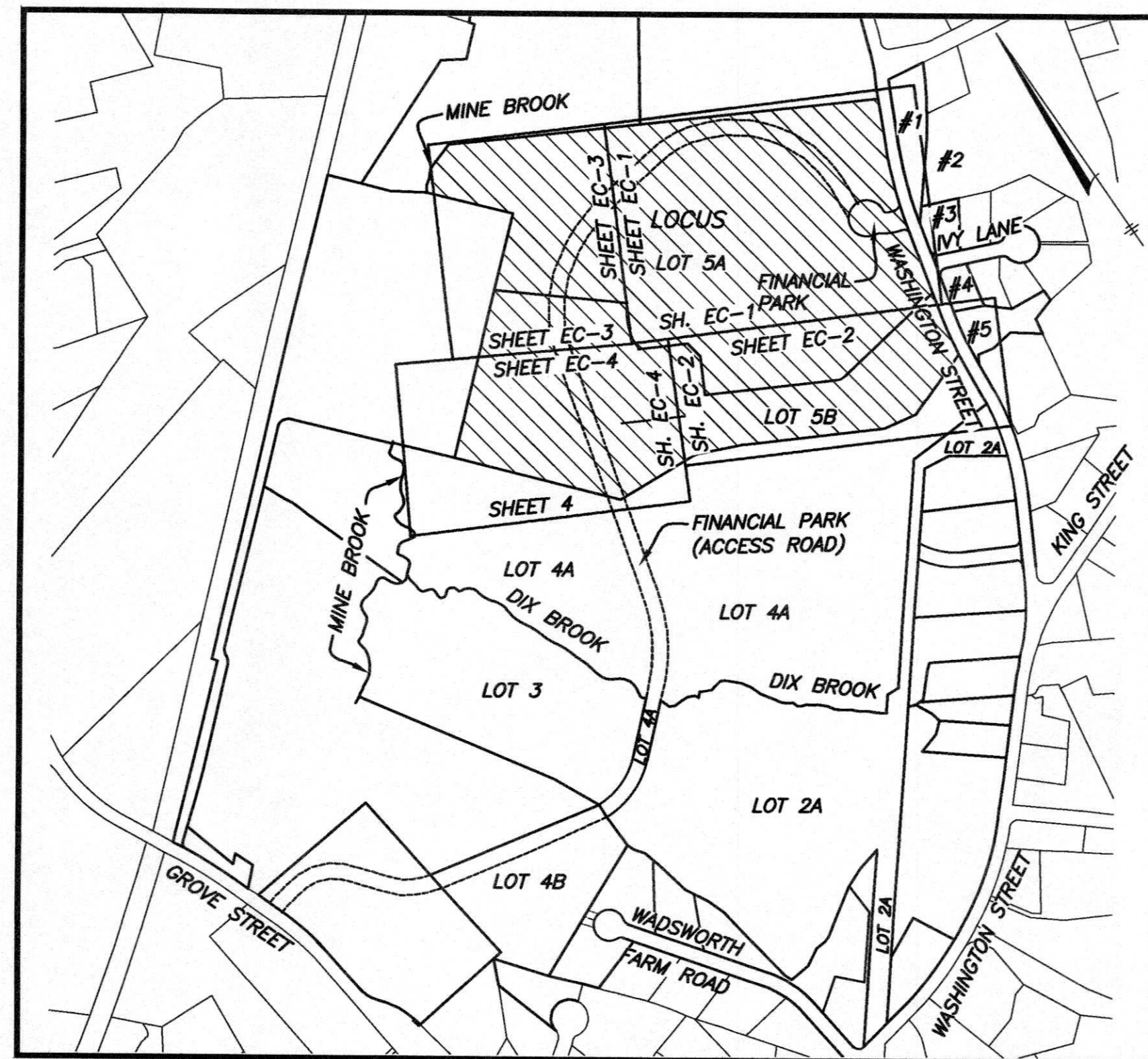
LEGEND

- E— ELECTRIC MANHOLE & UNDERGROUND ELECTRIC LINES
- FO— TELEPHONE MANHOLE & UNDERGROUND FIBER OPTIC LINES
- IR IRON ROD
- BIT. BITUMINOUS
- (C) CALCULATED
- CONG. CONCRETE
- (F) FOUND
- (R) RECORD
- ⊕ POST INDICATOR VALVE
- ⊕ CAMERA
- ⊕ DRY WELL
- ☆ LIGHT POLE
- BOLLARD
- SIGN
- DH DRILL HOLE
- DHCB DRILL HOLE IN CONCRETE BOUND
- DHSB DRILL HOLE IN STONE BOUND
- ⊕ CB CATCH BASIN
- ⊕ SMH SEWER MANHOLE
- W 6" CI WATER MANHOLE, WATER MAIN WITH SIZE, TEE, GATE VALVE & FIRE HYDRANT
- G 10" DI GAS MAIN WITH SIZE & GATE VALVE
- OHV— EXISTING UTILITY POLE WITH DESIGNATION OVERHEAD WIRES AND GUY POLE
- ⊕ AREA OF FLOOD ZONES (SEE NOTE 10)
- STONE WALL
- METAL GUARDRAIL
- EDGE OF PAVEMENT
- WIRE FENCE
- EDGE OF GRAVEL ROAD
- T/G— TELECOMMUNICATIONS EASEMENT
- 208.8 WFA2 LIMIT OF BORDERING VEGETATED WETLAND WITH FLAG NUMBER AND ELEVATION
- LIMIT OF 25-FOOT NO DISTURB WETLAND BUFFER ZONE
- LIMIT OF 50-FOOT NO BUILD ZONE WETLAND BUFFER ZONE
- LIMIT OF 100-FOOT WETLAND BUFFER ZONE
- SEWERLINE & MANHOLE
- DRAINLINE WITH CATCHBASIN, MANHOLE & ROUND CATCHBASIN
- LIMIT OF 100-YEAR FLOOD PLAIN (SEE NOTE 10 & 11)
- LIMIT OF FEMA FLOOD WAY (SEE NOTE 10)
- LIMIT OF 100-FOOT INNER RIPARIAN ZONE
- LIMIT OF 200-FOOT OUTER RIPARIAN ZONE

LIMITED/COMPLIED EXISTING CONDITIONS PLAN

FOR 100 & 200 FINANCIAL PARK FRANKLIN, MA OCTOBER 24, 2022

REV. JULY 24, 2023



LOCUS MAP
1"=500'

NOTES:

- 1) PROJECT SOURCE BENCHMARK IS BASED ON THE NORTH AMERICAN VERTICAL DATUM OF 1988
- 2) THE PURPOSE OF THIS PLAN IS TO FACILITATE CONCEPT DESIGN ONLY. IT COMPILES INFORMATION FROM THE FOLLOWING SOURCES:
A: TOPOGRAPHY AND WETLANDS (SERIES F&G) NEAR WASHINGTON STREET FROM 2016 ANRAD BY THIS OFFICE.
B: REMAINDER OF WETLANDS FROM 2019 WETLANDS PLAN OF LOT 5 BY THIS OFFICE.
C: 2020 SITE "AS-BUILT" BY THIS OFFICE OF LOT 4A (TO THE SOUTH) WHICH INCLUDES PARKING EASEMENT ON LOT 5A AND ACCESS EASEMENT TO FINANCIAL PARK CUL-DE-SAC.
D: UTILITY LOCATIONS FROM 2021 ALTA PLAN FOR LOT 5A AND LOT 5B.
E: PORTIONS OF CONTOURS FROM NOAA 2011 LIDAR.
F: GPS FILL IN CONTOURS IN AREA SOUTH OF SMALL WAREHOUSE.
- 3) UNDERGROUND UTILITIES SHOWN HEREON ARE FROM A DECEMBER 15, 2021 ALTA BY THIS OFFICE (AND HAVE NOT BEEN UPDATED). THEY WERE COMPILED FROM FIELD LOCATIONS OF STRUCTURES, CONTRACTOR PAINT MARKS, AND AVAILABLE RECORD INFORMATION ON FILE AT THE TOWN ENGINEERING OFFICES, TOWN D.P.W., MASS HIGHWAY DEPT. AND UTILITY COMPANIES. OTHER UNDERGROUND UTILITIES MAY EXIST. IT SHALL BE THE RESPONSIBILITY OF THE DESIGN ENGINEER AND THE CONTRACTOR TO VERIFY THE LOCATION, SIZE & ELEVATION OF ALL UTILITIES WITHIN THE AREA OF ANY FUTURE PROPOSED WORK AND TO CONTACT "DIG-SAFE" AT 1-888-344-7233 AT LEAST 72 HOURS PRIOR TO ANY EXCAVATION, DEMOLITION OR CONSTRUCTION.
- 4) THE LOCATION OF UNDERGROUND STORAGE TANKS, IF ANY, ARE UNKNOWN.
- 5) THIS PLAN IS A COMPILATION OF SEVERAL TOPOGRAPHIC SURVEYS PREPARED AT VARIOUS SCALES, AS SUCH, SCALES OF SOME SYMBOLS ARE NOT CONSISTENT.
- 6) ELECTRIC EASEMENT CROSSING LOCUS IS DEPICTED APPROXIMATELY PER 2-19-15 ALTA PLAN PREPARED FOR CRE MANAGEMENT, LLC. AND PLAN BOOK 56, PLAN #2653.
- 7) INTENTIONALLY OMITTED
- 8) A TWO LOT DEFINITIVE SUBDIVISION PLAN WAS APPROVED FOR PREVIOUS OWNERS BUT NOT REFERENCED ON THE CURRENT DEED. THE COVER SHEET (ONLY) WAS RECORDED IN PLAN BOOK 428, PLAN 163 OF 1995 AT THE NORFOLK COUNTY REGISTRY OF DEEDS. THE LOTTING SHEETS, NOT RECORDED, ARE ON FILE AT THE FRANKLIN PLANNING BOARD. THE LOCATION OF THE "FINANCIAL PARK" CUL-DE-SAC IS SHOWN FROM SAID PLANS.
- 9) LOCATION OF IRRIGATION SYSTEM COMPONENTS NOT INCLUDED IN THIS SURVEY.
- 10) FEMA FLOOD ZONE LINES FOR "ZONE X-SHADED" ARE SHOWN APPROXIMATELY FROM MASS GIS.
- 11) THE 100 YEAR FLOOD PLAIN (FLOOD ZONE AE) WAS FIELD LOCATED ON LOT 4A AND PARTIALLY ONTO THE SOUTHERLY PORTION OF LOT 5 ON AUGUST 19, 2019. THE FLOOD ZONE LINE IS SHOWN PER FIELD LOCATION BETWEEN WETLAND FLAG J105 (SHEETS 4 & 5) AND MEAN ANNUAL HIGH WATER FLAG 215. ALL OTHER PORTIONS OF FLOOD ZONE AE LINES ARE SHOWN APPROXIMATELY PER INTERPOLATION OF THE NOAA LIDAR CONTOURS THAT ARE PART OF THIS COMPILATION PLAN AND ARE NOT FIELD LOCATED.
- 12) MEAN ANNUAL HIGH WATER (MAHW) HAS BEEN FIELD DELINEATED AT THE NORTHWEST CORNER OF LOT 5A AND SEVERAL HUNDRED FEET SOUTH OF THERE. ON LOT 4A, ALONG MINE BROOK AND THE PORTION OF DIX BROOK THAT HAS NOT BEEN FIELD DELINEATED, MAHW HAS BEEN APPROXIMATED BASED ON DIGITIZED CENTERLINE OF SAID BROOKS AND MAHW WIDTHS FROM USGS STREAMSTATS BANKFULL STATISTICS.
- 13) BVW (BORDERING VEGETATED WETLANDS) HAS NOT BEEN FLAGGED WEST OF THE DETENTION POND ON ABUTTING LOT 4A, BETWEEN DIX BROOK AND ROUGH WF-J85. THIS LINE WOULD NOT IMPACT THE 100' SETBACK LINE ON LOT 4A AS THE DETENTION POND BROADCASTS A 100' BUFFER FARTHER EAST AS DEPICTED.
- 14) OFF-SITE ACCESS EASEMENTS AND UTILITY EASEMENTS EXIST BUT ARE NOT SHOWN AS THEY ARE OUTSIDE THE SCOPE OF THIS SURVEY.
- 15) WATER LINE SHOWN HEREON FOR WELL PUMP IS COMPILED FROM A SKETCH SUPPLIED BY HIGHPOINT ENGINEERING AND IS SHOWN APPROXIMATE ONLY. A WELL PUMP EXISTS ON SITE BUT HAS NOT BEEN LOCATED AS OF THE DATE OF THIS PLAN.
- 16) REVISED AND ADDITIONAL WETLAND FLAGS WERE FIELD LOCATED ON JUNE 29, 2023 BY THIS OFFICE AND ARE SHOWN HERE ON (SHEET EC-1) NEW FLAGS LOCATED ARE WF-114A, WF-114B, WF-114C, WF-114D, WF-B100, WF-B101, WF-B102, WF-B103, WF-BA200, WF-BA201B, WF-BA202, WF-BA203 & WF-BA204. WETLAND FLAGS WF BA-103A, WF BA-102A, WF BA-101A, WF BA-100A, WF BA-200A, WF BA-201 & WF BA-202A WERE LOCATED ON JULY 17, 2023.
- 17) IN PARAGRAPH 1.2 OF DOCUMENT IN DEED BOOK 36923, PAGE 202 A 20'X20' SIGNAGE EASEMENT IS DESCRIBED BUT REFERENCES A SKETCH ON ITS EXHIBIT B THAT DEPICTS TWO STRAIGHT LINES AND A CURVE WITH NO MATH. A BEST GUESS OF INTENT IS DRAFTED HEREON.

SHEET INDEX:

COVER SHEET
LIMITED/COMPLIED EXISTING.....EC-1 THRU EC-4
CONDITIONS PLANS

ABUTTERS EAST OF WASHINGTON STREET:

- #1: 312-006-000-000
HALLIE WETZEL & NICHOLAS PAONE
394 WASHINGTON STREET, FRANKLIN, MA
DEED BOOK 31636, PAGE 270
- #2: 312-011-000-000
TOWN OF FRANKLIN
DEED BOOK 9381, PAGE 124
- #3: 312-007-000-000
MICHAEL CARUSO & VANESSA CARUSO
2 IVY LANE, FRANKLIN, MA
DEED BOOK 35089, PAGE 415
- #4: 312-016-000-000
KEVIN & KATIE BOYCE
1 IVY LANE, FRANKLIN, MA
DEED BOOK 36017, PAGE 305
- #5: 312-017-000-000
SUZANNA & AMBER SARKAR
JOANNE HEBERT SARKAR
460 WASHINGTON STREET, FRANKLIN, MA
DEED BOOK 40155, PAGE 457

RECORD OWNERS:

ICBP IV HOLDINGS 34, LLC
C/O BERKELEY PARTERS
1 SANSOME STREET, SUITE 1500
SAN FRANCISCO, CALIFORNIA

ASSESSORS' PARCEL ID:

LOT 5A: 312-020-000-000
LOT 5B: 312-020-001-000
W/R/T EASEMENT OVER LOT 4A
LOT 4A: 321-060-000-000

REFERENCES:

DEED BOOK 36923, PAGE 217
PLAN BOOK 56, PLAN 2653 & 2654
PLAN BOOK 107, PAGE 253
PLAN BOOK 117, PAGES 388 & 389
PLAN BOOK 190, PAGE 1305
PLAN 252 OF 1977, PLAN BOOK 259
PLAN BOOK 281, PLAN 323 OF 1980
PLAN 322 OF 1980, PLAN BOOK 281
PLAN BOOK 665, PAGES 8 & 9
PLAN BOOK 672, PAGE 97 & 98
PLAN BOOK 675, PAGE 39
PLAN BOOK 676, PAGE 49
PLAN BOOK 678, PAGES 8 & 9
PLAN BOOK 701, PAGE 31
PLAN BOOK 281, PLAN 323 OF 1980

ZONING:

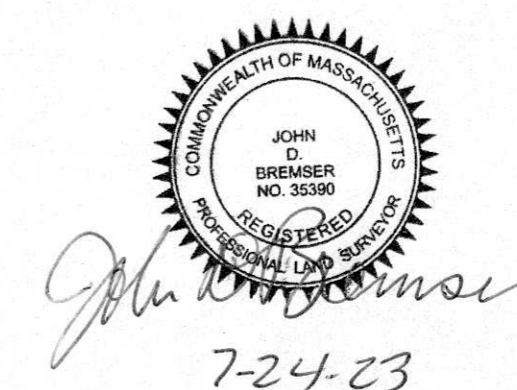
INDUSTRIAL

SURVEYOR

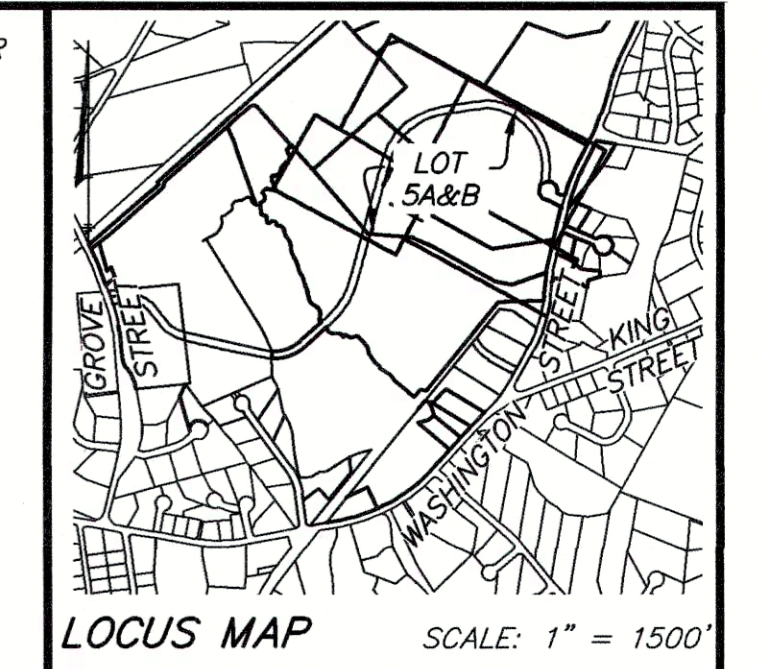
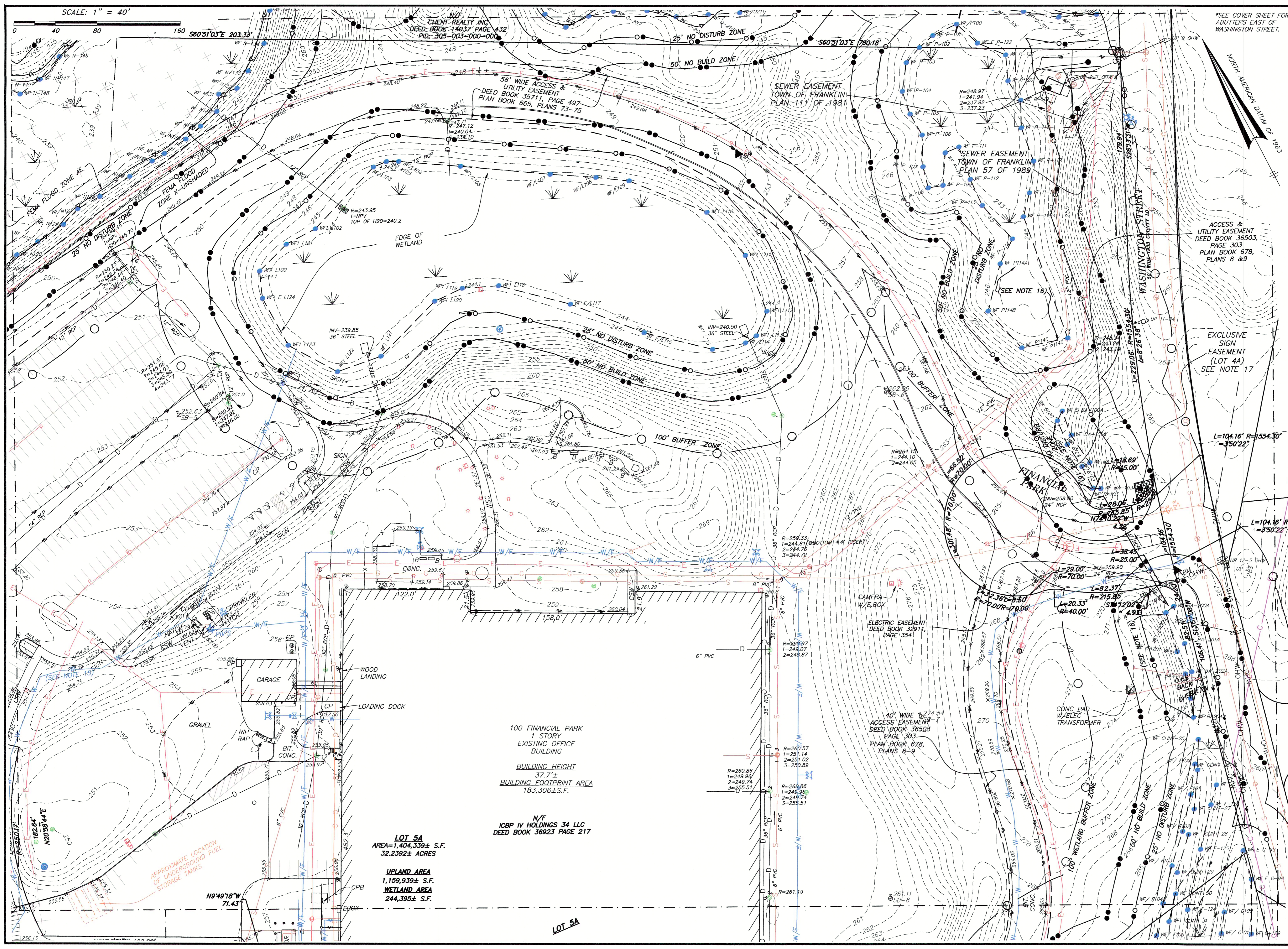
HANCOCK ASSOCIATES
315 ELM STREET
MARLBOROUGH, MA 01752
PHONE (508) 460-1111

CIVIL ENGINEER

HIGHPOINT ENGINEERING, INC.
980 WASHINGTON STREET
DEDHAM, MA 02026
PHONE (781) 770-0973



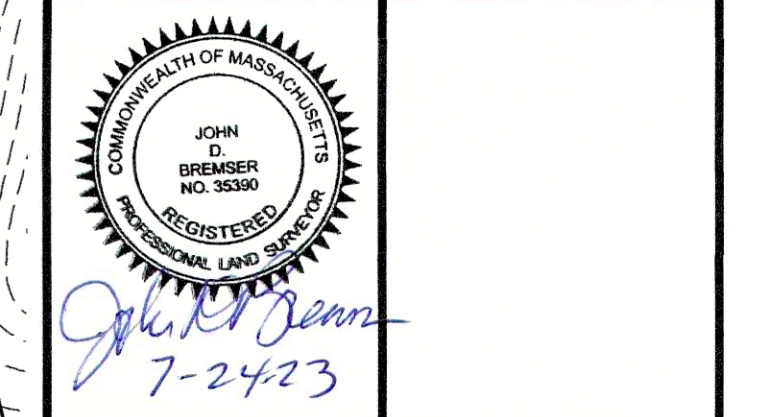
| ELEVATION BENCH MARKS | | |
|-----------------------|---------------------------|--------|
| ▲ DATUM: (SEE NOTE 1) | | |
| NO. | DESCRIPTION | ELEV. |
| L | MAGNETIC NAIL IN PAVEMENT | 266.93 |
| M | MAGNETIC NAIL IN PAVEMENT | 254.42 |
| N | MAGNETIC NAIL IN PAVEMENT | 251.92 |



SITE ADDRESS:
#100 & #200
FINANCIAL PARK
 (F/K/A 431 WASHINGTON ST.)
 Franklin, Massachusetts

PREPARED FOR:
BERKELEY PARTNERS
GROUP, LLC

HANCOCK ASSOCIATES
 Civil Engineers
 Land Surveyors
 Environmental Consultants
 315 Elm Street, Marlborough, MA 01752
 Voice (508) 460-1111, Fax (508) 460-1121
 www.hancockassociates.com

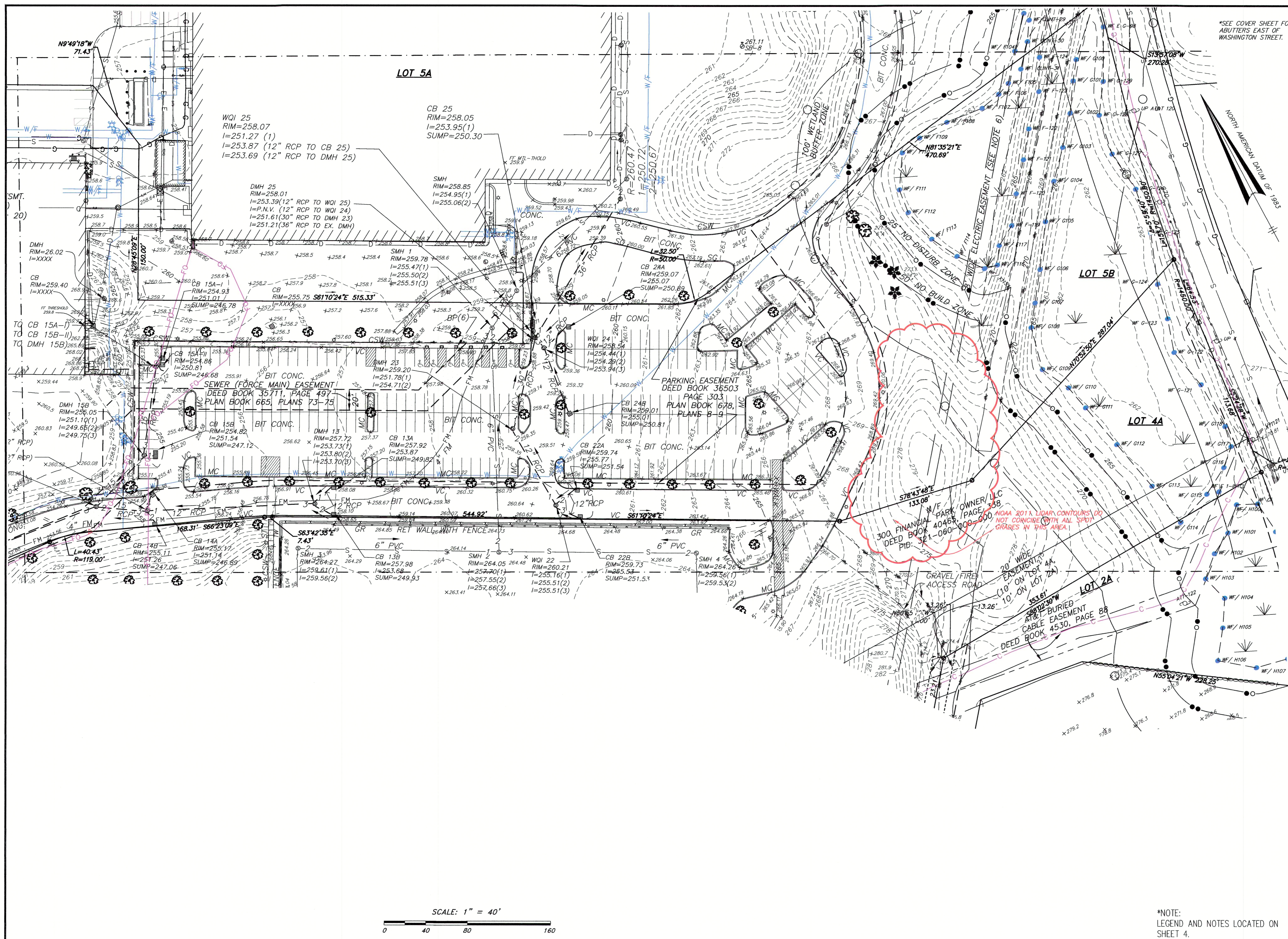


| NO. | BY | APP | DATE | ISSUE/REVISION DESCRIPTION |
|-----|-----|-----|---------|--|
| 12 | CMC | JDB | 7/24/23 | ADD HYDRANT AT FINANCIAL PARK & WASHINGTON STREET |
| 11 | CMC | JDB | 7/19/23 | REV. WET. LINES/BUFF. AT WASH & FIN. PARK. NOTES & CULVERT |
| 10 | CMC | JDB | 5/5/23 | ADD WATER LINE |
| 9 | CMC | JDB | 4/17/23 | GENERAL REVISIONS |
| 8 | CMC | JDB | 4/4/23 | GENERAL REVISIONS |
| 6 | CMC | JDB | 3/6/23 | REVISE NOTES 10-13, ADD 13; ADD MAHW FLAGS ON LOT 4A |
| 5 | CMC | JDB | 2/3/23 | REVISE FLOOD ZONE AREAS & ADD MAHW FLAG SERIES 100 |
| 1 | CMC | JDB | 11/2/22 | GENERAL REVISIONS |

DATE: 10/24/22 DRAWN BY: CMC
 SCALE: 1" = 40' CHECK BY: JDB

LIMITED/COMPILED
EXISTING CONDITIONS
PLAN OF LAND
IN
FRANKLIN, MA
 PLOT DATE: Jul 24, 2023 7:15 pm
 DWG: 26609-LIM-EC-LOT-5A&B-2023.dwg
 LAYOUT: EC-1
 SHEET: 2 OF 5
 PROJECT NO.: 22387

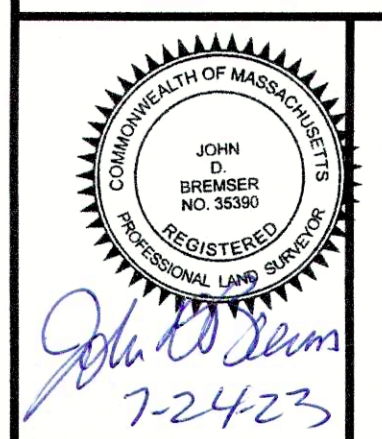
EC-1



SITE ADDRESS:
#100 & #200
FINANCIAL PARK
 (F/K/A 431 WASHINGTON ST.)
 Franklin, Massachusetts

PREPARED FOR:
BERKELEY PARTNERS
GROUP, LLC

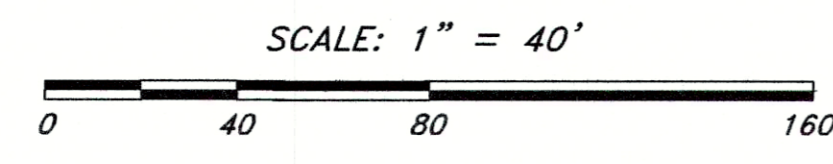
HANCOCK ASSOCIATES
 Civil Engineers
 Land Surveyors
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 315 Elm Street, Marlborough, MA 01752
 Voice (508) 460-1111, Fax (508) 460-1121
 www.hancockassociates.com



| 12 | CMC | JDB | 7/24/23 | ADD HYDRANT AT FINANCIAL PARK & WASHINGTON STREET |
|-----|-----|-----|---------|--|
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| 9 | CMC | JDB | 4/17/23 | GENERAL REVISIONS |
| 8 | CMC | JDB | 4/4/23 | GENERAL REVISIONS |
| 6 | CMC | JDB | 3/6/23 | REVISE NOTES 10-13, ADD 13; ADD MAHW FLAGS ON LOT 4A |
| 5 | CMC | JDB | 2/3/23 | REVISE FLOOD ZONE AREAS & ADD MAHW FLAG SERIES 100 |
| 1 | CMC | JDB | 11/2/22 | GENERAL REVISIONS |
| NO. | BY | APP | DATE | ISSUE/REVISION DESCRIPTION |

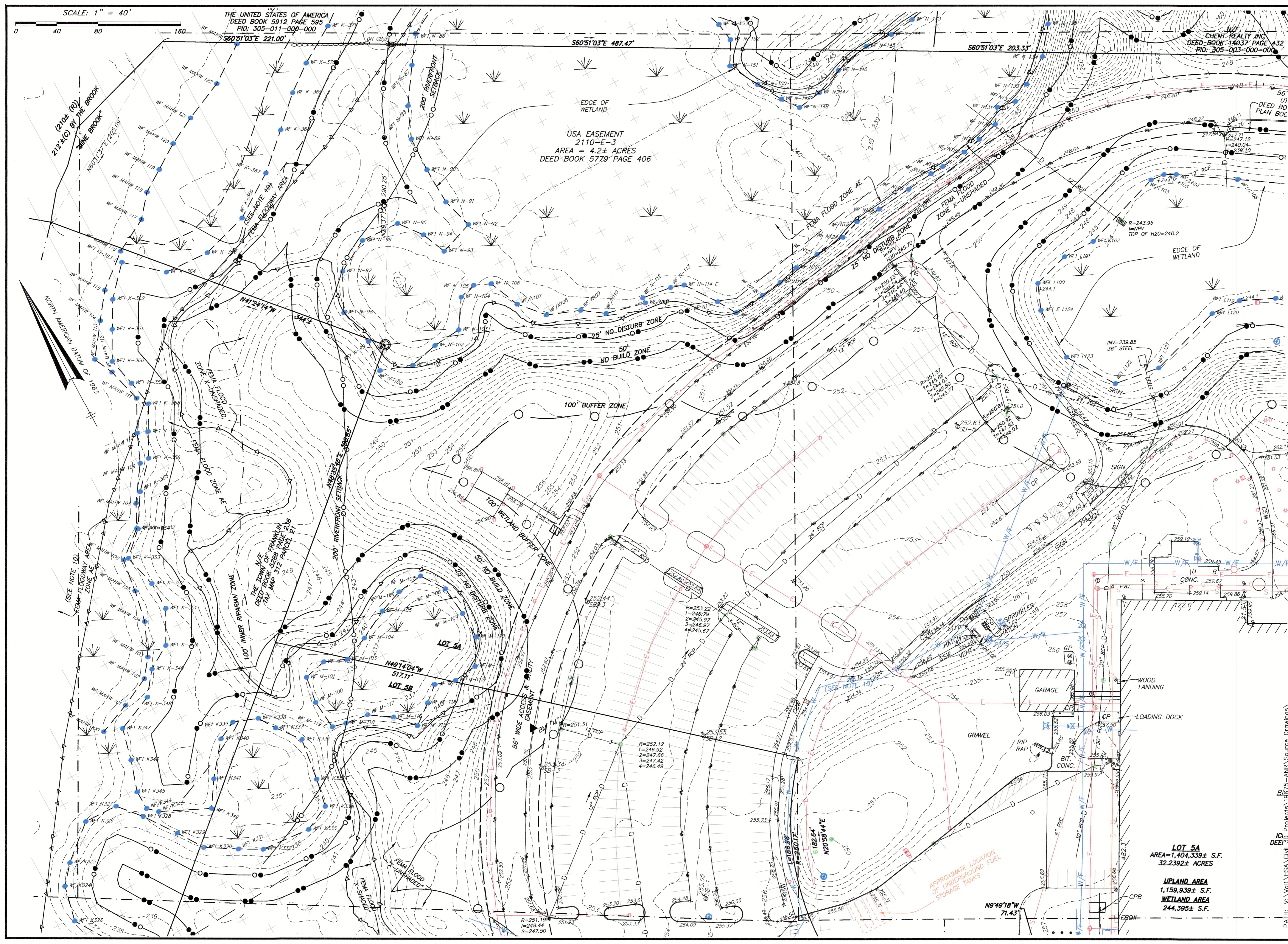
DATE: 10/24/22 DRAWN BY: CMC
 SCALE: 1" = 40' CHECK BY: JDB

LIMITED/COMPILED
EXISTING CONDITIONS
PLAN OF LAND
IN
FRANKLIN, MA
 PLOT DATE: Jul 24, 2023 7:10 pm
 DWS: 26609-LIM-EC-LOT-5A&B-2023.dwg
 LAYOUT: EC-2
 SHEET: 3 OF 5
 PROJECT NO.: 26609



*NOTE:
 LEGEND AND NOTES LOCATED ON SHEET 4.

PATH: V:\01\1975\Civil\30 Projects\19675-ANR Source Drawings\



SCALE: 1" = 40'

THE UNITED STATES OF AMERICA
DEED BOOK 5912 PAGE 595
PID: 305-011-000-000

USA EASEMENT
2110-E-3
AREA = 4.2± ACRES
DEED BOOK 5779 PAGE 406

CHENT REALTY INC
DEED BOOK 14037 PAGE 432
PID: 305-003-000-000

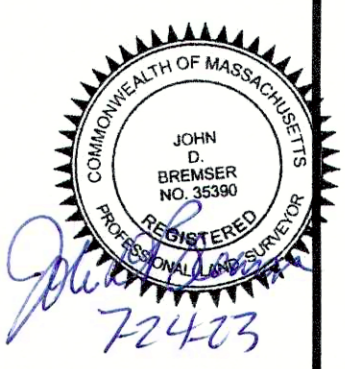


SITE ADDRESS:
**#100 & #200
FINANCIAL PARK**
(F/K/A 431 WASHINGTON ST.)
Franklin, Massachusetts

PREPARED FOR:
**BERKELEY PARTNERS
GROUP, LLC**

**HANCOCK
ASSOCIATES**
Civil Engineers
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| NO. | BY | APP | DATE | ISSUE/REVISION DESCRIPTION |
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| 8 | CMC | JDB | 4/4/23 | GENERAL REVISIONS |
| 6 | CMC | JDB | 3/6/23 | REVISE NOTES 10-13, ADD 13; ADD MAHW FLAGS ON LOT 4A |
| 5 | CMC | JDB | 2/3/23 | REVISE FLOOD ZONE AREAS & ADD MAHW FLAG SERIES 100 |
| 1 | CMC | JDB | 11/2/22 | GENERAL REVISIONS |

DATE: 10/24/22 DRAWN BY: CMC
SCALE: 1" = 40' CHECK BY: JDB

**LIMITED/COMPILED
EXISTING CONDITIONS
PLAN OF LAND
IN
FRANKLIN, MA**

PLOT DATE: Jul 24, 2023 7:13 pm

DWG: 26609-LIM-EC-LOT-5A&B-2023.dwg

LAYOUT: EC-3

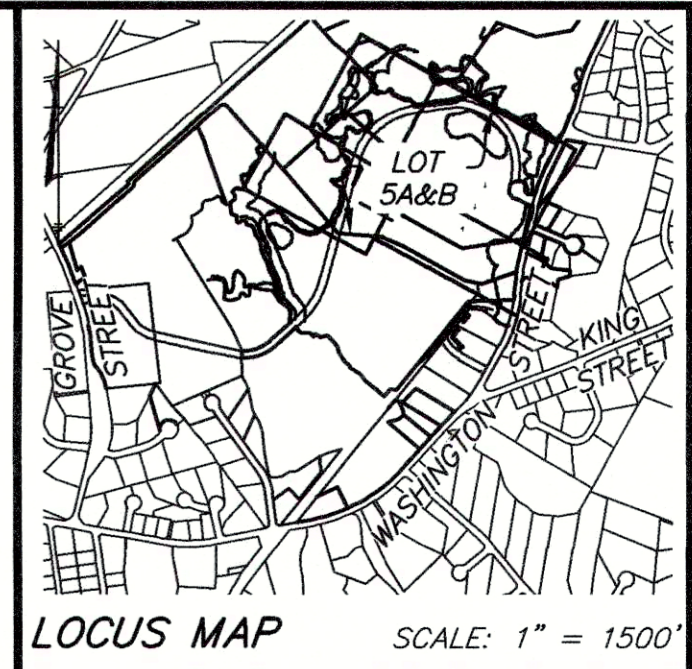
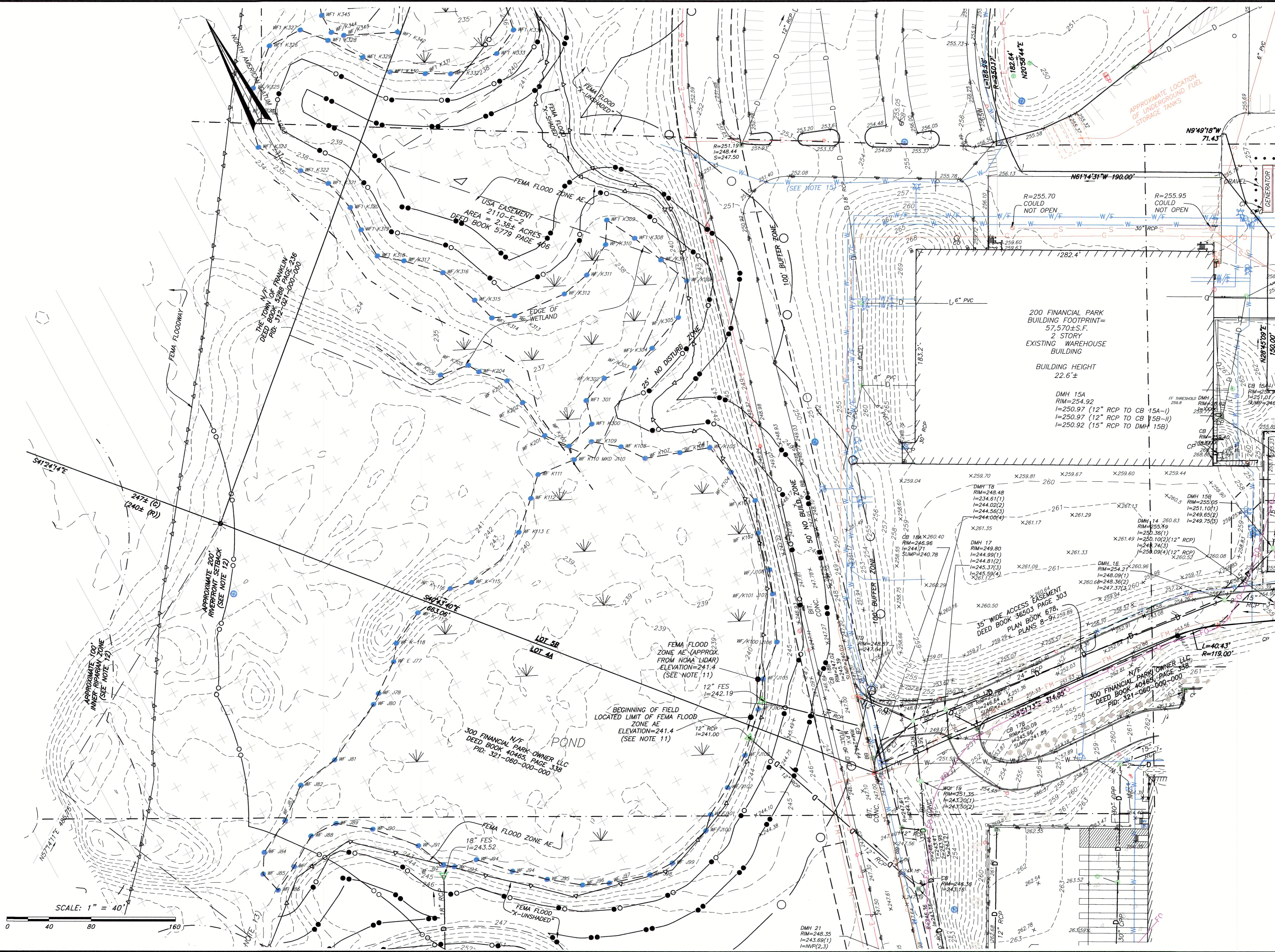
SHEET: 4 OF 5

PROJECT NO.: 26609

LOT 5A
AREA=1,404,339± S.F.
32.2392± ACRES

UPLAND AREA
1,159,939± S.F.
WETLAND AREA
244,395± S.F.

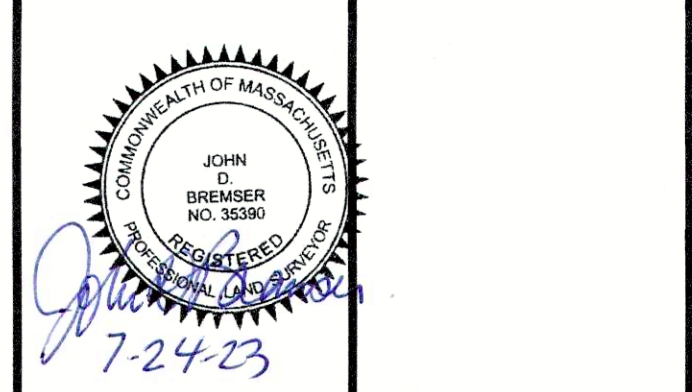
EC-3



SITE ADDRESS:
#100 & #200
FINANCIAL PARK
 (F/K/A 431 WASHINGTON ST.)
 Franklin, Massachusetts

PREPARED FOR:
BERKELEY PARTNERS
GROUP, LLC

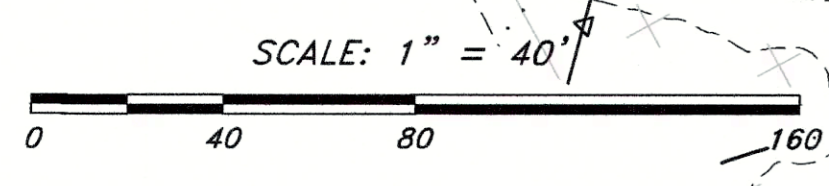
HANCOCK
ASSOCIATES
 Civil Engineers
 Land Surveyors
 Environmental Consultants
 315 Elm Street, Marlborough, MA 01752
 Voice (508) 460-1111, Fax (508) 460-1121
 www.hancockassociates.com



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|-----|-----|-----|---------|--|
| 12 | CMC | JDB | 7/24/23 | ADD HYDRANT AT FINANCIAL PARK & WASHINGTON STREET |
| 11 | CMC | JDB | 7/19/23 | REV. WET. LINES/BUFF. AT WASH & FIN. PARK. NOTES & CULVERT |
| 10 | CMC | JDB | 5/5/23 | ADD WATER LINE |
| 9 | CMC | JDB | 4/17/23 | GENERAL REVISIONS |
| 8 | CMC | JDB | 4/4/23 | GENERAL REVISIONS |
| 6 | CMC | JDB | 3/6/23 | REVISE NOTES 10-13, ADD 13; ADD MAHW FLAGS ON LOT 4A |
| 5 | CMC | JDB | 2/3/23 | REVISE FLOOD ZONE AREAS & ADD MAHW FLAG SERIES 100 |
| 1 | CMC | JDB | 11/2/22 | GENERAL REVISIONS |
| NO. | BY | APP | DATE | ISSUE/REVISION DESCRIPTION |

DATE: 10/25/22 DRAWN BY: CMC
 SCALE: 1" = 40' CHECK BY: JDB

LIMITED/COMPILED
EXISTING CONDITIONS
PLAN OF LAND
IN
FRANKLIN, MA
 PLOT DATE: Jul 24, 2023 7:14 pm
 DWG: 26609-LIM-EC-LOT-5A&B-2023.dwg
 LAYOUT: EC-4
 SHEET: 5 OF 5
EC-4
 PROJECT NO.: 26609



PATH: V:\01\HSA\Civil_3D_Projects\19675-ANR_Sources Drawings

GENERAL NOTES

THE CONTRACTOR SHALL REPORT TO THE OWNER AND ENGINEER ANY SIGNIFICANT VARIATIONS IN EXISTING SITE CONDITIONS FROM THOSE SHOWN ON THESE PLANS. ANY PROPOSED REVISIONS TO THE WORK, IF REQUIRED BY THESE SITE CONDITIONS, SHALL NOT BE UNDERTAKEN UNTIL REVIEWED AND APPROVED BY THE OWNER AND THE ENGINEER.

IT SHALL BE THE RESPONSIBILITY OF THE CONTRACTOR TO INSTITUTE ANY AND ALL SAFETY MEASURES NECESSARY TO PROTECT THE PUBLIC SAFETY DURING CONSTRUCTION. THESE SHALL INCLUDE SIGNS, BARRICADES, FENCES, POLICE OFFICERS, ETC. AS IS NECESSARY, OR AS DIRECTED BY THE PUBLIC AUTHORITIES AND THE OWNER. CONSTRUCTION ACTIVITIES SHALL BE IN ACCORDANCE WITH OSHA STANDARDS AND LOCAL REQUIREMENTS.

THE EXISTING SITE CONDITIONS SHOWN ON THESE PLANS WERE DETERMINED BY A FIELD SURVEY AND COMPILED IN PLANS OF RECORD. ANY VARIATIONS FROM THE CONDITIONS SHOWN ON THESE PLANS SHOULD BE REPORTED TO THE ENGINEER BEFORE PROCEEDING WITH THE PROPOSED WORK.

UNLESS OTHERWISE SPECIFIED ON THE PLANS AND SPECIFICATIONS ALL SITE CONSTRUCTION MATERIALS AND METHODOLOGIES ARE TO CONFORM TO THE COMMONWEALTH OF MASSACHUSETTS DEPARTMENT OF PUBLIC WORKS STANDARD SPECIFICATIONS FOR HIGHWAYS AND BRIDGES, 1988 EDITION OR THE LATEST EDITION.

WORK WITHIN THE LOCAL RIGHTS-OF-WAY SHALL CONFORM TO LOCAL MUNICIPAL STANDARDS. WORK WITHIN THE STATE RIGHTS-OF-WAY SHALL CONFORM TO THE LATEST EDITION OF THE STATE HIGHWAY DEPARTMENT STANDARD SPECIFICATIONS FOR HIGHWAYS AND BRIDGES.

THE CONTRACTOR SHALL OBTAIN ALL NECESSARY PERMITS, INCLUDING (BUT NOT LIMITED) THE CONTRACTOR SHALL OBTAIN ALL NECESSARY PERMITS.

CONTRACTOR SHALL BE SOLELY RESPONSIBLE FOR JOB SITE SAFETY AND ALL CONTRACTOR SHALL BE SOLELY RESPONSIBLE FOR JOB SITE SAFETY AND ALL CONSTRUCTION MEANS AND METHODS.

LIMIT OF WORK SHALL BE EROSION CONTROL BARRIERS, LIMIT OF GRADING AND SITE LIMIT OF WORK SHALL BE EROSION CONTROL BARRIERS, LIMIT OF GRADING AND SITE PROPERTY LINES AND/OR AS INDICATED ON DRAWINGS.

CONTRACTOR TO VERIFY UTILITY STUB LOCATIONS AND ELEVATIONS IN THE FIELD PRIOR TO COMMENCING WORK.

ANY ALTERATION TO THESE DRAWINGS MADE IN THE FIELD DURING CONSTRUCTION RECORDED BY THE CONTRACTOR ON RECORD DOCUMENTS.

ANY AREA OUTSIDE THE LIMIT OF WORK THAT IS DISTURBED SHALL BE RESTORED TO ITS ORIGINAL CONDITION AT NO COST TO OWNER.

ALL WORK TO BE DONE WITHIN PUBLIC RIGHT-OF-WAYS SHALL CONFORM TO TOWN/CITY LOCAL STANDARD CONSTRUCTION REQUIREMENTS FOR THE INSTALLATION OF AND/OR REPAIR OF UNDERGROUND FACILITIES, EXCAVATIONS AND PAVING IN THE PUBLIC WAY.

IN THE EVENT THAT SUSPECTED CONTAMINATED SOIL, GROUNDWATER AND OTHER MEDIA ARE ENCOUNTERED DURING EXCAVATION AND CONSTRUCTION ACTIVITIES BASED ON VISUAL, OLFACTORY, OR OTHER EVIDENCE, THE CONTRACTOR SHALL STOP WORK IN THE VICINITY OF THE SUSPECT MATERIAL AND SHALL NOTIFY THE OWNER/ENGINEER IMMEDIATELY SO THAT THE APPROPRIATE TESTING AND SUBSEQUENT ACTION CAN BE TAKEN.

SEDIMENTATION/EROSION CONTROL NOTES

UNLESS DIRECTED OTHERWISE, ALL EXISTING TURF OR VEGETATED AREAS WITHIN THE PROPOSED LIMITS OF WORK FOR EXCAVATION, GRADING, OR IMPROVEMENT SHALL BE CLEARED AND GRUBBED. WITHIN THE CLEARING AND GRUBBING AREA, REMOVE ALL TREES, SHRUBS AND ROOTS UNLESS DESIGNATED OTHERWISE. CLEARING SHALL INCLUDE THE FELLING, CUTTING AND OFF-SITE DISPOSAL OF ALL TREES, SHRUBS, STUMPS AND VEGETATIVE DEBRIS PRODUCED THROUGH THE CLEARING OPERATIONS.

THE LOCATION OF EROSION CONTROL BARRIERS SHOWN ON DRAWINGS ARE INTENDED TO THE LOCATION OF EROSION CONTROL BARRIERS SHOWN ON DRAWINGS ARE INTENDED TO BE MINIMUM REQUIREMENTS AND A GUIDE FOR THE PLACEMENT OF THESE BARRIERS OTHER MEASURES MAY BE WARRANTED BASED UPON EXPERIENCE AT THE SITE. WHEN NO SEDIMENTATION CONTROL SYSTEM IS SHOWN ON THE DRAWING, THE CONTRACTOR SHALL BE REQUIRED TO ESTABLISH A SYSTEM TO PREVENT SILTATION OR POLLUTION OF ADJACENT PROPERTY, THE SYSTEMS SHOWN SHALL NOT RELIEVE THE CONTRACTOR FROM THE RESPONSIBILITY OF PLACING ADDITIONAL BARRIERS OR REPLACING BARRIERS AS REQUIRED BY SITE CONDITIONS. THE IMPLEMENTATION, MAINTENANCE, REPLACEMENT AND ADDITIONS TO THESE SYSTEMS SHALL BE THE RESPONSIBILITY OF THE CONTRACTOR. AS CONSTRUCTION PROGRESSES AND SEASONAL CONDITIONS DICTATE, MORE SILTATION CONTROL FACILITIES MAY BE REQUIRED. IT SHALL BE THE RESPONSIBILITY OF THE CONTRACTOR TO ADDRESS NEW CONDITIONS THAT MAY BE CREATED.

THE CONTRACTOR SHALL REGULARLY INSPECT THE PERIMETER OF THE PROPERTY TO CLEAN UP AND REMOVE LOOSE CONSTRUCTION DEBRIS BEFORE IT LEAVES THE SITE. ALL DEMOLITION DEBRIS SHALL BE PROMPTLY REMOVED FROM THE SITE TO A LEGAL DUMP SITE. ALL TRUCKS LEAVING THE SITE SHALL BE COVERED.

AT THE END OF CONSTRUCTION, THE CONTRACTOR SHALL REMOVE ALL CONSTRUCTION DEBRIS AND SURPLUS MATERIALS FROM THE SITE. A THOROUGH INSPECTION OF THE WORK PERIMETER IS TO BE MADE AND ALL DISCARDED MATERIALS BLOWN OR WATER CARRIED DEBRIS, SHALL BE COLLECTED AND REMOVED FROM THE SITE. THE CONTRACTOR SHALL NOT REMOVE ANY SILTATION CONTROLS UNTIL AUTHORIZED (IN WRITING) BY THE OWNER OR OWNER'S REPRESENTATIVE.

PRIOR TO STARTING ANY OTHER WORK ON THE SITE, THE CONTRACTOR SHALL NOTIFY APPROPRIATE AGENCIES AND SHALL INSTALL EROSION CONTROL MEASURES AS SHOWN ON PLANS AND AS IDENTIFIED IN FEDERAL, STATE, AND LOCAL APPROVAL DOCUMENTS PERTAINING TO THIS PROJECT.

IT SHALL BE THE RESPONSIBILITY OF THE CONTRACTOR TO INSTITUTE EROSION CONTROL MEASURES ON AN AS NECESSARY BASIS, SUCH THAT EXCESSIVE SOIL EROSION DOES NOT OCCUR. MEASURES SHALL INCLUDE HAY BALE DIKES AROUND DRAINAGE INLETS, MULCHING, AND PLANTING OF DISTURBED AREAS.

AN EROSION CONTROL BARRIER IS TO BE INSTALLED AT THE PROPOSED DOWN GRADIENT TOE OF SLOPE AT ALL LOCATIONS WHERE EARTHWORK IS PROPOSED.

DURING CONSTRUCTION THE EROSION CONTROL MEASURES SHALL BE INSPECTED ONCE PER WEEK AND WITHIN 24 HOURS OF ANY STORM EVENT GENERATING MORE THAN 1/2" OF RAINFALL. THE EROSION CONTROL MEASURES SHALL BE CLEANED REGULARLY AND ADJUSTED IF NECESSARY, TO ENSURE THAT NO SILT OR DEBRIS LEAVES THE SITE.

ALL POINTS OF CONSTRUCTION EGRESS OR INGRESS SHALL BE MAINTAINED TO PREVENT TRACKING OR FLOWING OF SEDIMENT ONTO PUBLIC ROADS. ANY SEDIMENT TRACKED ONTO PUBLIC RIGHT-OF-WAYS SHALL BE SWEEPED AT THE END OF EACH WORKING DAY.

EXPOSED SLOPES GREATER THAN 50' IN LENGTH ARE TO HAVE CHECK DAMS, TERRACES AND/OR MULCHING INSTALLED. IN ORDER TO REDUCE EROSION AND TO ENHANCE SURFACE STABILIZATION, IF CHECK DAMS ARE USED, THEY SHOULD BE PLACED APPROXIMATELY 50' O/C PARALLEL WITH THE FACE OF THE SLOPE.

UNTIL DRIVEWAYS ARE PAVED, TEMPORARY DIKES ARE TO BE STAKED ACROSS DRIVEWAYS AS REQUIRED TO DIRECT RUNOFF WATER TO CATCH BASINS. SILT SCREENS ARE TO BE INSTALLED AT CATCH BASIN GRATES (SEE DETAIL) AND SUMPS OF BASINS ARE TO BE CLEANED AS NECESSARY TO PREVENT SILT FROM ENTERING THE SUBSURFACE DRAINAGE SYSTEM.

AFTER INSTALLATION OF EACH DRAINAGE INLET A HAY BALE DIKE SHALL BE INSTALLED AROUND THE INLET TO PREVENT SEDIMENT FROM ENTERING THE STORM DRAIN SYSTEM.

AT THE END OF CONSTRUCTION ALL DRAINAGE STRUCTURES ARE TO BE CLEANED OF SILT, STONES AND OTHER DEBRIS. EROSION CONTROL BARRIERS ARE TO BE REMOVED AND DISPOSED OF IN ACCORDANCE TO LOCAL REQUIREMENTS.

CONTRACTOR SHALL PREVENT DUST, SEDIMENT, AND DEBRIS FROM EXTING THE SITE AND SHALL BE RESPONSIBLE FOR CLEANUP, REPAIRS AND CORRECTIVE ACTION IF SUCH OCCURS. ANY DAMAGE RESULTING FROM CONSTRUCTION LOADS SHALL BE REPAIRED BY THE CONTRACTOR AT NO ADDITIONAL COST TO OWNER.

ALL AREAS DISTURBED DURING CONSTRUCTION AND NOT LEFT IN A NATURAL CONDITION SHALL RECEIVE SIX (6) INCHES OF LOAM AND SEED.

AREAS NOT DISTURBED BY CONSTRUCTION SHALL BE LEFT NATURAL. CARE SHALL BE TAKEN TO PRESERVE EXISTING TREES, GROUND COVER AND OTHER NATURAL FEATURES WHENEVER POSSIBLE.

AREAS OUTSIDE THE LIMITS OF PROPOSED WORK DISTURBED BY THE CONTRACTOR'S OPERATIONS SHALL BE RESTORED BY THE CONTRACTOR TO THEIR ORIGINAL STATE AT THE CONTRACTOR'S EXPENSE.

CONTRACTOR SHALL CONTROL STORMWATER RUNOFF DURING CONSTRUCTION TO PREVENT ADVERSE IMPACTS TO OFF SITE AREAS, AND SHALL BE RESPONSIBLE TO REPAIR RESULTING DAMAGES, IF ANY, AT NO COST TO OWNER.

ALL STOCKPILE AREAS SHALL BE LOCATED WITHIN LIMIT OF WORK LINE AND STABILIZED ALL STOCKPILE AREAS SHALL BE LOCATED WITHIN LIMIT OF WORK LINE AND STABILIZED TO PREVENT EROSION.

ALL DEBRIS GENERATED DURING SITE PREPARATION ACTIVITIES SHALL BE LEGALLY ALL DEBRIS GENERATED DURING SITE PREPARATION ACTIVITIES SHALL BE LEGALLY DISPOSED OF OFF-SITE.

PROVIDE CRIBBING AS NECESSARY TO PROTECT EXISTING UTILITY LINES DURING CONSTRUCTION.

SITE ELEMENTS TO REMAIN MUST BE PROTECTED FOR DURATION OF PROJECT.

ALL TOPSOIL ENCOUNTERED WITHIN WORK AREA SHALL BE STRIPPED TO ITS FULL DEPTH AND STOCKPILED FOR REUSE. EXCESS TOPSOIL SHALL BE DISPOSED OF ON-SITE AS DIRECTED BY OWNER. TOPSOIL PILES SHALL REMAIN SEGREGATED FROM EXCAVATED SUBSURFACE SOIL MATERIALS.

ALL AREAS IDENTIFIED AS CRITICAL AREA SEEDING SHALL BE STABILIZED DURING CONSTRUCTION BY SEEDING WITH ANNUAL RYE GRASS AT THE RATE OF FORTY (40) LBS/ACRE.

DUST SHALL BE CONTROLLED BY SPRINKLING OR OTHER APPROVED METHODS AS DUST SHALL BE CONTROLLED BY SPRINKLING OR OTHER APPROVED METHODS AS NECESSARY, OR AS DIRECTED BY THE OWNER OR HIS REPRESENTATIVE.

EXTREME CARE SHALL BE EXERCISED SO AS TO PREVENT ANY UNSUITABLE MATERIAL FROM ENTERING ENVIRONMENTALLY SENSITIVE OR JURISDICTIONAL RESOURCE AREAS.

ALL DISTURBED SLOPES EITHER NEWLY CREATED OR EXPOSED PRIOR TO OCTOBER 15 SHALL BE SEEDDED OR PROTECTED BY THAT DATE.

LOADING AND SEEDING OR MULCHING OF NON-PAVEMENT AREAS SHALL TAKE PLACE AS LOAMING AND SEEDING OR MULCHING OF NON-PAVEMENT AREAS SHALL TAKE PLACE AS SOON AS PRACTICABLE.

ALL SLOPES WITH SURFACE GRADES STEEPER THAN 3:1 SHALL BE STABILIZED WITH EROSION CONTROL BLANKETS.

CORR FIBER ROLLS, HAYBALES, SILT FENCE OR OTHER SILTATION CONTROLS SHALL BE MAINTAINED IN A SATISFACTORY CONDITION UNTIL CONSTRUCTION IS COMPLETED AND THE POTENTIAL FOR ON-SITE EROSION HAS PASSED.

SITE LAYOUT AND MATERIALS NOTES

CONTRACTOR SHALL REPORT SIGNIFICANT CONFLICTS TO THE OWNER OR OWNER'S REPRESENTATIVE FOR RESOLUTION.

ACCESSIBLE ROUTES, PARKING SPACES, RAMPS SIDEWALKS AND WALKWAYS SHALL BE CONSTRUCTED IN CONFORMANCE WITH FEDERAL AMERICANS WITH DISABILITIES ACT AND WITH STATE AND LOCAL LAWS AND REGULATIONS (WHICHEVER ARE MORE STRINGENT).

TRAFFIC SIGNAGE AND PAVEMENT MARKINGS SHALL CONFORM TO THE MANUAL OF UNIFORM TRAFFIC CONTROL DEVICES.

CROSSWALKS SHALL BE STRIPED WITH 12" WIDE LINES OF WHITE THERMO PLASTIC SPACED 3' ON CENTER. STOP LINES SHALL BE STRIPED WITH 12" WIDE LINES OF WHITE THERMO PLASTIC. ALL OTHER STRIPING SHALL BE 4" WIDE LINES OF THERMO PLASTIC IN COLORS INDICATED HEREIN.

PAVEMENT MARKINGS SHALL CONFORM TO SECTION M7.01.05 OF THE COMMONWEALTH OF MASSACHUSETTS DEPARTMENT OF PUBLIC WORKS STANDARD SPECIFICATIONS FOR HIGHWAYS AND BRIDGES.

ALL NEW CURBS SHALL BE VERTICAL GRANITE CURBING (VGC) WITH 6" REVEAL UNLESS OTHERWISE INDICATED HEREON. INSTALL 6' LONG TRANSITION CURB STONES AT ALL TRANSITIONS FROM VERTICAL TO FLUSH GRANITE.

EXISTING CURBS TO REMAIN AS SHOWN HEREON ARE ASSUMED TO BE IN SATISFACTORY CONDITION BUT ARE TO BE PARGED OR REPLACED IN KIND IN LOCATIONS OF DAMAGE.

INSTALL EXPANSION AND CONTROL JOINTS IN SIDEWALKS AT INTERVALS OF 5 FEET AND 25 FEET, RESPECTIVELY. PROVIDE BROOM FINISH IN TRANSVERSE DIRECTION ON ALL WALKS.

SIDEWALK WIDTHS INDICATED HEREON ARE MEASURED FROM BACK OF CURB TO BACK IF SIDEWALK 6" WIDTH OF CURBS NOT INCLUDED.

ALL CURB RADIUS DIMENSIONS SHOWN HEREON ARE MEASURED ALONG FACE OF CURB.

REFER TO LAYOUT PLAN FOR EXTENTS OF MILL AND OVERLAY AND FULL DEPTH PAVEMENT CONSTRUCTION AND PATCHING WHERE APPLICABLE.

ALL WORK CONDUCTED WITHIN PUBLIC RIGHT-OF-WAYS SHALL CONFORM TO THE LOCAL REQUIREMENTS AND SPECIFICATIONS.

ALL ACCESSIBLE ROUTES, RAMPS AND PARKING SPACES TO COMPLY WITH THE AMERICANS WITH DISABILITIES ACT (ADA) ACCESSIBILITY GUIDELINES AND THE MASSACHUSETTS ARCHITECTURAL ACCESS BOARD (AAB).

THE FOLLOWING LAYOUT CRITERIA SHALL CONTROL UNLESS OTHERWISE NOTED ON THE PLAN:

DIMENSIONS FROM BUILDING ARE FROM FACE OF BUILDING.

DIMENSIONS ARE TO FACE OF CURB AT GUTTER LINE.

DIMENSIONS ARE TO THE CENTER OF PAVEMENT MARKINGS.

ALL LINES AND DIMENSIONS AND TIES TO PROPERTY LINES ARE PERPENDICULAR TO THE PROPERTY LINE UNLESS OTHERWISE NOTED.

COORDINATE THE LOCATION OF ALL SITE LIGHT STANDARDS WITH IMPROVEMENTS SHOWN ON THESE DRAWINGS.

CONTRACTOR SHALL FURNISH AND SET ALL LINES AND GRADES REQUIRED AND PROTECT ALL PERMANENT BENCHMARKS OR MONUMENTS. DAMAGED MONUMENTS SHALL BE REPLACED BY A LICENSED SURVEYOR AT NO COST TO THE OWNER.

ALL BITUMINOUS CONCRETE PAVING SHALL COMPLY WITH THE MASSACHUSETTS DEPARTMENT OF PUBLIC WORKS STANDARD SPECIFICATIONS FOR HIGHWAYS AND BRIDGES, 1988 EDITION AS AMENDED. THE CONTRACTOR SHALL SUBMIT A JOB MIX FORMULA DEMONSTRATING COMPLIANCE WITH THESE SPECIFICATIONS. THE CONTRACTOR SHALL SUPPLY THE ENGINEER WITH A CERTIFICATE OF COMPLIANCE SUPPLIED BY THE PAVING CONTRACTOR.

BITUMINOUS CONCRETE PAVEMENT: CLASS I, TYPE I-1 CONFORMING TO THE STANDARD SPECIFICATIONS, SECTIONS 420 AND 460, AND M3.11.03 FOR BINDER COURSE AND TOP COURSE JOB MIX FORMULAS.

ALL CONCRETE WORK SHALL COMPLY WITH AC301 "SPECIFICATION FOR STRUCTURAL CONCRETE," AND AC318R UNLESS MODIFIED BY THE CONTRACT DOCUMENTS. COMPLY WITH CRCSI'S "MANUAL OF STANDARD PRACTICE" FOR FABRICATING, PLACING, AND SUPPORTING REINFORCEMENT. COMPLY WITH ACI 308.1 FOR COLD WEATHER PROTECTION, AND FOLLOW RECOMMENDATIONS IN ACI 308 FOR HOT WEATHER PROTECTION DURING CURING. COMPLY WITH ACI 304 "GUIDE FOR MEASURING, MIXING, TRANSPORTING, AND PLACING CONCRETE."

SAW-CUT EXISTING PAVEMENT WHERE NEW BITUMINOUS CONCRETE PAVEMENT IS TO COME IN CONTACT. PRIME COAT THE CUT EDGE PRIOR TO PLACEMENT.

CONTRACTOR(S) SHALL THOROUGHLY FAMILIARIZE THEMSELVES WITH ALL CONSTRUCTION DOCUMENTS, SPECIFICATIONS, AND ALL SITE CONDITIONS PRIOR TO CONSTRUCTION.

OUT OF FUNCTION OR SCREENED IMAGES REPRESENT EXISTING CONDITIONS. WHERE EXISTING CONDITIONS LIE UNDER OR ARE IMPACTED BY PROPOSED BUILDINGS AND/OR SITE ELEMENTS, THE EXISTING CONDITION WILL BE REMOVED, ABANDONED AND/OR CAPPED OR DEMOLISHED AS REQUIRED.

GRADING NOTES

THE CONTRACTOR SHALL VERIFY EXISTING GRADES IN THE FIELD AND REPORT ANY DISCREPANCIES IMMEDIATELY TO THE OWNER OR HIS REPRESENTATIVE.

ALL STUMPS, PEAT, CONSTRUCTION DEBRIS AND OTHER DELETERIOUS MATERIALS ON THE SITE AT THE TIME OF CONSTRUCTION ARE TO BE REMOVED FROM THE SITE TO AN APPROVED LANDFILL. NO SUCH MATERIALS ARE TO BE BURIED OR OTHERWISE DISPOSED OF ON THE SITE. MATERIAL FOR BACKFILL SHALL NOT INCLUDE UNSUITABLE MATERIAL SUCH AS PEAT, TRASH, STUMPS, DEBRIS OR HAZARDOUS WASTE.

FILL MATERIAL SHALL BE AS SPECIFIED BY THE ARCHITECT/ENGINEER AND SELECTED FROM ON-SITE EXCAVATION MATERIAL WHERE POSSIBLE.

AT ALL LOCATIONS WHERE EXISTING CURBING OR PAVEMENT ABUTS NEW CONSTRUCTION, THE EDGE OF THE EXISTING CURB OR PAVEMENT SHALL BE SAW CUT TO A CLEAN, SMOOTH EDGE. BLEND NEW PAVEMENT, CURBS AND EARTHWORK SMOOTHLY INTO EXISTING BY MATCHING LINES, GRADES AND JOINTS. FITCH EVENLY BETWEEN SPOT GRADES. GRADE ALL AREAS TO DRAIN.

CONTRACTOR SHALL MAINTAIN POSITIVE DRAINAGE AWAY FROM ALL BUILDING FOUNDATIONS, STRUCTURES AND PLANTING BEDS.

THE CONTRACTOR SHALL SCHEDULE HIS WORK TO ALLOW THE FINISHED SUBGRADE ELEVATIONS TO DRAIN PROPERLY WITHOUT PUDDLING. SPECIFICALLY, ALLOW WATER TO ESCAPE WHERE PROPOSED CURBS MAY RETAIN RUNOFF PRIOR TO APPLICATION OF THE FINISH SUBGRADE AND/OR SURFACE PAVING. PROVIDE TEMPORARY POSITIVE DRAINAGE AS REQUIRED.

PITCH EVENLY BETWEEN SPOT GRADES. GRADE ALL AREAS TO DRAIN. ALL PAVED AREAS MUST PITCH TO DRAIN AT A MINIMUM OF 1/8" PER FOOT UNLESS OTHERWISE SPECIFIED. ANY DISCREPANCIES NOT ALLOWING THIS MINIMUM PITCH SHALL BE REPORTED TO THE OWNER OR HIS REPRESENTATIVE PRIOR TO CONTINUING WORK.

ACCESSIBLE CURB RAMPS, RAMP LANDINGS, WALKWAYS, CROSSWALKS, PATIOS/PLAZAS AND PARKING AREAS SHALL BE PER THE MASSACHUSETTS ARCHITECTURAL ACCESS BOARD (AAB) AND THE AMERICANS WITH DISABILITIES ACT (ADA) ACCESSIBILITY REQUIREMENTS. WALKWAY AND CROSSWALK ALONG ACCESSIBLE ROUTE(S) SHALL HAVE 5% MAX LONGITUDINAL SLOPE AND 2% MAX CROSS SLOPE. LANDINGS, PATIOS/PLAZAS, AND ACCESSIBLE PARKING SPACES SHALL BE 2% MAX IN ALL DIRECTIONS. RAMPS SHALL BE 8.3% MAXIMUM.

A GEOTECHNICAL ENGINEER MAY BE RETAINED BY THE OWNER TO OBSERVE PERFORMANCE OF WORK, FOR CONFORMANCE WITH THESE CONTRACT DOCUMENTS, IN CONNECTION WITH EXCAVATING, TRENCHING, FILLING, BACKFILLING AND GRADING, AND TO PERFORM ASSOCIATED FIELD TESTS.

DURING THE PROGRESS OF THE WORK, THE CONTRACTOR MAY BE REQUIRED TO EXCAVATE ADDITIONAL TEST PITS FOR THE PURPOSE OF LOCATING UNDERGROUND UTILITIES OR STRUCTURES AS AN AID IN ESTABLISHING THE PRECISE LOCATION OF NEW WORK. THIS WORK IS TO BE PERFORMED AT NO ADDITIONAL COST TO THE OWNER. TEST PITS SHALL BE BACKFILLED, AS SOON AS THE DESIRED INFORMATION HAS BEEN OBTAINED.

PROTECT STRUCTURES, UTILITIES, SIDEWALKS, PAVEMENTS AND OTHER FACILITIES FROM DAMAGE CAUSED BY SETTLEMENT, LATERAL MOVEMENT, UNDERMINING, WASHOUT AND OTHER HAZARDS CREATED BY CONTRACTOR OPERATIONS.

STOCKPILED TOPSOIL SHALL BE PLACED NEATLY IN AN AREA INDICATED BY THE OWNER.

EXISTING TREES AND SHRUBS OUTSIDE THE LIMITS OF GRADING SHALL BE REMOVED ONLY UPON PRIOR APPROVAL OF THE OWNER.

FILL DEPRESSIONS CAUSED BY TEST PITS AND CLEARING AND GRUBBING OPERATIONS WITH SATISFACTORY SOIL MATERIAL UNLESS FURTHER EXCAVATION OR EARTHWORK IS INDICATED.

THE CONTRACTOR SHALL PREVENT SURFACE WATER AND SUBSURFACE OR GROUNDWATER FROM FLOWING INTO EXCAVATIONS OR EARTHWORK AREAS WHICH WOULD CAUSE FLOODING OF THE PROJECT SITE AND SURROUNDING AREA, OR SOFTENING OR LOOSENING OF THE SOIL AT EXCAVATION OR EARTHWORK SUB-GRADES.

THE CONTRACTOR SHALL PROVIDE, INSTALL, OPERATE, MAINTAIN AND REMOVE ADEQUATE AND SATISFACTORY DEWATERING SYSTEMS AND DRAINAGE OR EXCAVATIONS TO PERMIT CONSTRUCTION TO PROCEED "IN THE DRY". THE CONTRACTOR SHALL ASSUME ALL RESPONSIBILITY FOR THE ADEQUACY OF THE METHODS, MATERIALS AND EQUIPMENT EMPLOYED. THE CONTRACTOR SHALL BEAR THE FULL COST OF PROVIDING ALL NECESSARY DEWATERING.

THE CONTRACTOR SHALL PROHIBIT SEEPAGE, GROUNDWATER FLOW OR SURFACE INFILTRATION AND RUNOFF FROM UNDERMINING OR OTHERWISE DAMAGING ADJACENT STRUCTURES AND UTILITIES.

PAVING, CONCRETE WORK AND BASE COURSE PREPARATION SHALL BE DONE ONLY AFTER EXCAVATION AND CONSTRUCTION WORK WHICH MIGHT INjure THEM HAS BEEN COMPLETED. DAMAGE CAUSED DURING CONSTRUCTION SHALL BE REPAIRED BEFORE ACCEPTANCE.

PAVEMENT OR BASE MATERIALS SHALL NOT BE PLACED ON A MUDDY OR FROZEN SUBGRADE.

ESTABLISHMENT OF GRADES, GRADE CONTROL, AND CONFORMANCE TO REQUIRED GRADE TOLERANCES SHALL BE THE RESPONSIBILITY OF THE CONTRACTOR.

PROTECT GRADED, FINISHED OR PAVED AREAS FROM DAMAGE AND KEEP THEM FREE OF TRASH AND DEBRIS RESULTING FROM CONSTRUCTION OPERATIONS. REPAIR AND RE-ESTABLISH GRADES IN SETTLED, ERODED AND RUTTED AREAS.

PAVEMENT, LAWN OR PLANTING AREAS EXCAVATED DURING UTILITY CONSTRUCTION, WHETHER ON THE SITE OR ADJACENT PROPERTIES, SHALL BE RESTORED AND MATCHED WITH EXACTLY THE SAME MATERIALS AND TOLERANCES AS PRIOR TO DISRUPTION, AT NO ADDITIONAL COST TO THE OWNER, OR ADJACENT PROPERTY OWNERS.

DRAINAGE NOTES

ALL STORM DRAIN SHALL BE REINFORCED CONCRETE PIPE (RCP) PIPE UNLESS OTHERWISE NOTED. INSTALLATION OF ALL UTILITY STRUCTURES SHALL CONFORM TO MANUFACTURER'S RECOMMENDATION.

REINFORCED CONCRETE PIPE SHALL CONFORM TO ASTM DESIGNATION C-76, CLASS III, REINFORCED CONCRETE PIPE SHALL CONFORM TO ASTM DESIGNATION C-76, CLASS III, WALL B WITH JOINTS AND GASKETS IN CONFORMANCE WITH ASTM C 443.

MANHOLES SHALL BE 48-INCH DIAMETER (UNLESS OTHERWISE SPECIFIED). CAST-IN-PLACE MANHOLES SHALL BE 48-INCH DIAMETER (UNLESS OTHERWISE SPECIFIED). CAST-IN-PLACE BASES SHALL BE USED WHERE MANHOLES ARE CONSTRUCTED OVER EXISTING PIPES.

FRAMES AND COVERS FOR DRAINAGE STRUCTURES SHALL PROVIDE A 24-INCH MINIMUM FRAMES AND COVERS FOR DRAINAGE STRUCTURES SHALL PROVIDE A 24-INCH DRAINAGE STRUCTURE COVERS SHALL HAVE THE WORD "DRAIN" CENTERED ON THE DRAINAGE STRUCTURE COVERS SHALL HAVE THE WORD "DRAIN" CENTERED ON THE COVER IN 3-INCH HIGH LETTERS.

MINIMUM CLEAR OPENING AND SHALL BE LEBARON TYPE LK110 OR APPROVED EQUAL.

SINGLE CATCHBASIN FRAMES AND GRATES SHALL BE LEBARON TYPE LF 248-2 OR AS SINGLE CATCHBASIN FRAMES AND GRATES SHALL BE LEBARON TYPE LF 248-2 OR AS REQUIRED BY TOWN OF WELLESLEY DPW.

DOUBLE CATCH BASIN FRAMES SHALL BE LEBARON ONE-PIECE LV2448-1 FRAMES OR DOUBLE CATCH BASIN FRAMES SHALL BE LEBARON ONE-PIECE LV2448-1 FRAMES OR APPROVED EQUAL. FOR DOUBLE CATCH BASIN GRATES, USE TWO LEBARON TYPE LF 248-2 OR APPROVED EQUAL.

FRAMES, GRATES AND COVERS SHALL BE SET FIRM AND TRUE TO GRADE. ADJUST FOR FRAMES, GRATES AND COVERS SHALL BE SET FIRM AND TRUE TO GRADE. ADJUST FOR GRADE WITH BRICK MASONRY.

ALL ON-SITE DRAIN LINES SHALL BE SMOOTH INTERIOR WALLED CORRUGATED ALL ON-SITE DRAIN LINES SHALL BE SMOOTH INTERIOR WALLED CORRUGATED POLYETHYLENE PIPE UNLESS OTHERWISE NOTED.

PRE-CAST CONCRETE STRUCTURES INCLUDING TANKS, BARREL SECTIONS, CATCHBASINS AND BASES SHALL CONFORM TO ASTM C478 AND AASHTO H520-44. PLACEMENT SHALL BE IN ACCORDANCE WITH MANUFACTURER INSTRUCTIONS. ALL PRE-CAST STRUCTURES INCLUDING JOINTS, SEALS, OPENINGS, ETC MUST BE WATERTIGHT.

AT THE END OF CONSTRUCTION, AFTER ALL DISTURBED AREAS HAVE BEEN STABILIZED, THE CONTRACTOR SHALL CLEAN THE SUMPS OF ALL CATCH BASINS AND THE INVERTS OF ALL DRAIN MANHOLES.

ALL DRAIN LINES SHOWN SHALL BE 12" DIAMETER UNLESS OTHERWISE NOTED.

UTILITY NOTES

THE LOCATION OF UNDERGROUND UTILITIES AS REPRESENTED ON THESE PLANS IS BASED UPON EXISTING CONDITIONS PLANS AND POTENTIALLY INFORMATION PROVIDED BY THE LOCAL MUNICIPALITIES. ADDITIONAL INFORMATION MAY BE SUPPLEMENTED BY FIELD INVESTIGATIONS. HOWEVER, POSITIVE GUARANTEE IS MADE AS TO THE ACCURACY OF THESE LOCATIONS OR THAT ALL UNDERGROUND UTILITIES ARE SHOWN. THE CONTRACTOR SHALL CONTACT DIG SAFE AT LEAST 72 HOURS PRIOR TO THE START OF CONSTRUCTION. DIG SAFE TELEPHONE NUMBER IS 1-888-DIG-SAVE.

UNDERGROUND UTILITIES WERE COMPILED FROM AVAILABLE RECORD PLANS OF UTILITY AND PUBLIC AGENCIES AND ARE APPROXIMATE AND ASSUMED.

ALL PVC SANITARY SEWER SHALL BE SDR 35 WITH RUBBER RING JOINTS.

REFER TO PLUMBING PLANS FOR EXACT SIZE AND LOCATION OF SANITARY CONNECTIONS.

THE LOCAL MUNICIPAL WATER AND FIRE DEPARTMENTS SHALL BE NOTIFIED PRIOR TO THE START OF ANY WORK ON THE WATER SYSTEM.

THE PROPOSED WATER MAIN IS TO BE CL 52 CLDI. ALL FITTINGS, HYDRANTS, VALVES, ETC. USED ON THE SITE ARE TO BE IN ACCORDANCE WITH THE LOCAL UNCIAL WATER DEPARTMENT SPECIFICATIONS.

HYDRANTS AND MINIMUM SIZING OF WATER PIPES SHALL BE SUBJECT TO THE APPROVAL OF THE (TOWN/CITY) FIRE CHIEF.

THE CONTRACTOR SHALL NOTIFY THE LOCAL MUNICIPAL DEPARTMENT OF PUBLIC WORKS AT LEAST 48 HOURS IN ADVANCE OF ANY REQUIRED INSPECTIONS.

UNDERGROUND INFRASTRUCTURE LOCATED IN THE PUBLIC WAY SHALL BE SUBJECT TO THE APPROVAL OF THE LOCAL MUNICIPAL DEPARTMENT OF PUBLIC WORKS.

NO LEDGE, BOULDERS, OR OTHER UNYIELDING MATERIALS SHALL BE LEFT WITHIN 6' OF THE WATER AND SEWER IN THE TRENCH. NOR ARE THEY TO BE USED FOR BACKFILL FOR THE FIRST 12' ABOVE THE PIPES.

THE CONTRACTOR SHALL VERIFY THE LOCATION, SIZE AND DEPTH OF EXISTING UTILITIES PRIOR TO TAPPING INTO, CROSSING OR EXTENDING THEM. IF THE NEW WORK POSES A CONFLICT WITH EXISTING UTILITIES, THE ENGINEER IS TO BE NOTIFIED PRIOR TO THE CONTRACTOR CONTINUING.

EXCAVATION SHALL BE TO THE LINES AND ELEVATIONS AS SHOWN ON THE PLANS.

ALL MATERIALS FOR INSTALLATION OF WATER, SEWER, DRAIN, GAS, DATA/ELECOM, AND ELECTRICITY SHALL BE IN ACCORDANCE WITH LOCAL STATE AND UTILITY COMPANY STANDARDS AND REGULATIONS AS THEY APPLY.

ALL BENDS, TEES, VALVES, AND HYDRANTS ARE TO BE SECURED BY MEANS OF THREADED TIE RODS.

THREE CUBIC FEET OF CRUSHED STONE IS TO BE PLACED AROUND THE DRAIN HOLE IN ALL HYDRANTS. HYDRANTS ARE TO CONFORM TO THE (TOWN/CITY) OF (TOWN/CITY) STANDARD SPECIFICATIONS.

UNLESS OTHERWISE NOTED ALL UTILITY TRENCHES ARE TO BE BACKFILLED WITH BANK RUN GRAVEL. NO STONES GREATER THAN 3" IN DIAMETER ARE TO BE USED WITHIN 12" OF THE PIPES. THE TRENCHES, WHEN UNDER PROPOSED PAVED AREAS, ARE TO BE MECHANICALLY COMPACTED IN 12' LIFTS.

NO LEDGE, BOULDERS OR OTHER UNYIELDING MATERIALS ARE TO BE LEFT WITHIN 6' OF THE WATER MAIN IN THE TRENCH NOR ARE THEY TO BE USED FOR BACKFILL IN THE TRENCH.

THE SITE CONTRACTOR IS TO INSTALL A GAS SERVICE IN THE APPROXIMATE LOCATION SHOWN ON THE PLANS. THE SIZE AND EXACT LOCATION OF THE SERVICE IS TO BE DETERMINED AND COORDINATED WITH THE PLUMBING PLANS AND ALL EARTHEN PERIMETER SIDE SLOPES THAT ARE GRADED AND ARE NOT SCHEDULED FOR PERMANENT STABILIZATION WITHIN 30 DAYS OF COMPLETION ARE TO BE COVERED WITH HAY OR WOOD CHIP MULCH. BIODEGRADABLE EROSION CONTROL FABRIC OR HYDROSEEDING WITH A TEMPORARY GRASS MIXTURE IF WEATHER CONDITIONS WILL BE CONDUCTIVE TO GERMINATION OF THE SEED.

THE CONTRACTOR SHALL MAKE ALL ARRANGEMENTS FOR THE ALTERATION AND ADJUSTMENT OF GAS, ELECTRIC, TELEPHONE AND ANY OTHER PRIVATE UTILITIES BY THE UTILITY COMPANIES, AS REQUIRED. WHERE AN EXISTING UTILITY IS FOUND TO CONFLICT WITH THE PROPOSED WORK, THE LOCATION, ELEVATION AND SIZE OF THE UTILITY SHALL BE ACCURATELY DETERMINED WITHOUT DELAY BY THE CONTRACTOR, AND THE INFORMATION FURNISHED TO THE OWNER AND ARCHITECT FOR RESOLUTION.

BEFORE COMMENCING SITE WORK IN ANY AREA, CONTRACTOR SHALL CONTACT "DIG SAFE" AT 1-888-DIG-SAFE, 811 OR WWW.DIGSAFE.COM 72 WORKING HOURS IN ADVANCE TO ACCURATELY LOCATE UNDERGROUND UTILITIES. IN ADDITION, CONTRACTOR SHALL CONTACT OTHER MUNICIPAL OFFICIALS SUCH AS WATER AND SEWER IF APPLICABLE.

ALL UTILITY COVERS, GRATES, ETC. SHALL BE ADJUSTED TO BE FLUSH WITH THE PAVEMENT FINISH GRADE UNLESS OTHERWISE NOTED. RIM ELEVATIONS OF DRAINAGE STRUCTURES AND MANHOLES ARE APPROXIMATE.

CONTRACTOR SHALL PROTECT ALL UNDERGROUND DRAINAGE, SEWER AND UTILITY FACILITIES FROM EXCESSIVE VEHICULAR LOADS DURING CONSTRUCTION. ANY DAMAGE TO THESE FACILITIES RESULTING FROM CONSTRUCTION LOADS WILL BE RESTORED TO ORIGINAL CONDITION AT NO COST TO OWNER. NO EXCAVATION SHALL BE DONE UNTIL UTILITY COMPANIES ARE PROPERLY NOTIFIED IN ADVANCE.

EXCAVATION REQUIRED WITHIN THE PROXIMITY OF EXISTING UTILITY LINES SHALL BE DONE BY HAND. CONTRACTOR SHALL REPAIR ANY DAMAGE TO EXISTING UTILITY LINES OR STRUCTURES INCURRED DURING CONSTRUCTION OPERATIONS AT NO COST TO THE OWNER.

THE CONTRACTOR SHALL ALTER THE MASONRY OF THE TOP SECTION OF ALL EXISTING DRAINAGE STRUCTURES AS NECESSARY FOR CHANGES IN GRADE, AND RESET ALL WATER AND DRAINAGE FRAMES, GRATES AND BOXES TO THE PROPOSED FINISH SURFACE GRADE.

PROVIDE UNDERGROUND ELECTRIC CONDUIT FOR SITE LIGHTS AS APPROPRIATE. ENSURE ALL EXISTING (TO REMAIN) AND PROPOSED MANHOLE COVERS PROPERLY IDENTIFY UTILITY SERVED.

UNLESS OTHERWISE INDICATED, ABANDONED EXISTING UTILITY LINES SHALL BE CAPPED AND ABANDONED IN PLACE UNLESS THEY CONFLICT WITH PROPOSED IMPROVEMENTS. CAP REMAINING PORTIONS WHERE PARTIALLY REMOVED.

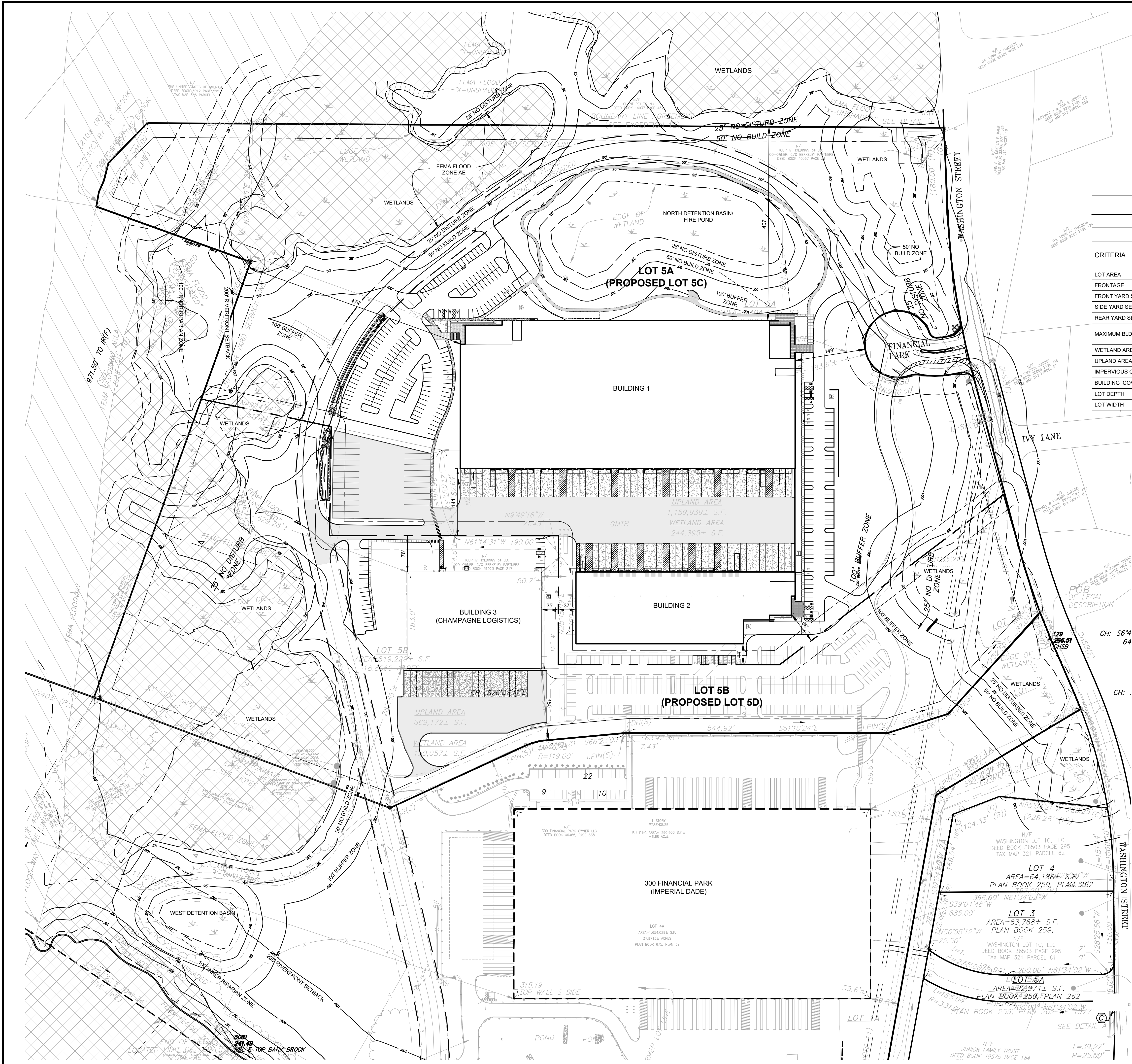
REFER TO ELECTRICAL DRAWINGS FOR ALL SITE ELECTRICAL WORK.

THE CONTRACTOR SHALL COLLECT AND DISPOSE OF WATER FROM ALL SYSTEMS IN ACCORDANCE WITH FEDERAL, STATE AND LOCAL CODES, ORDINANCES AND REGULATIONS AND OBTAIN ALL NECESSARY PERMITS.

ANY WATER PUMPED FROM EXCAVATIONS WILL BE CONVEYED BY HOSE TO AN UPLAND ANY WATER PUMPED FROM EXCAVATIONS WILL BE CONVEYED BY HOSE TO AN UPLAND AREA AND DISCHARGED INTO HAYBALE CORRALS OR SEDIMENTATION BAGS.

Highpoint Engineering, Inc. Land Planning, Permit Expediting, Civil Engineering, Consulting. BERKLEY PARTNERS 1 WASHINGTON MALL | Suite 701 BOSTON, MA 02108. CONSULTANT: 10-05-2023. DOUGLAS J. HERRNETT CIVIL ENGINEER LICENSE NO. 37756. SEAL.

WAREHOUSE / INDUSTRIAL DEVELOPMENT. 100/200 FINANCIAL PARK FRANKLIN, MA. OWNER/APPLICANT: BERKELEY PARTNERS. REV. DATE. DESCRIPTION. ISSUE TYPE: PERMIT SET. ISSUE DATE: 05/11/2023. PROJECT NUMBER: 22051. DRAWN BY: JJP. CHECKED BY: DJH. SHEET TITLE: GENERAL NOTES SHEET. SHEET NUMBER: G100. ISSUED FOR: PERMIT.



COMPLIANCE SUMMARY - BUILDING AND SITE DIMENSIONAL REQUIREMENTS

ZONING DISTRICT: INDUSTRIAL (I)
OVERLAY DISTRICT: WATER RESOURCE DISTRICT

| CRITERIA | REQUIRED | EXISTING LOTS 5A / 5B | LOT 5A (PROPOSED LOT 5C) | LOT 5B (PROPOSED LOT 5D) | COMPLIANCE |
|----------------------|-----------|------------------------|--------------------------|--------------------------|------------|
| LOT AREA | 40,000 SF | 32.24 / 18.81 ± AC | 34.12 ± AC | 16.92 ± AC | YES |
| FRONTAGE | 175 FT | 1219 / 260 ± FT | 890 ± FT | 260 ± FT | YES |
| FRONT YARD SETBACK | 40 FT | 183.6 / 40 FT | 149 FT | >40 FT | YES |
| SIDE YARD SETBACK | 30 FT | 50.8 / 50.7 FT | 37 FT | 35 FT | YES |
| REAR YARD SETBACK | 30 FT | 752.3 / 529.3 FT | 474 FT | 529 FT | YES |
| MAXIMUM BLDG. HEIGHT | 3 STORIES | 1 / 2 STORIES | ≤ 2 STORIES | ≤ 2 STORIES | YES |
| WETLAND AREA | --- | 250,998 / 139,809 SF | 250,998 SF | 139,809 SF | --- |
| UPLAND AREA | --- | 1,153,336 / 679,420 SF | 1,235,466 SF | 597,302 SF | --- |
| IMPERVIOUS COVERAGE | 80% | 31% / 69% | 52% | 45% | YES |
| BUILDING COVERAGE | 70% | 16% / 9% | 23% | 10% | YES |
| LOT DEPTH | 200 FT | >200 FT | >200 FT | >200 FT | YES |
| LOT WIDTH | 157.5 FT | >157.5 FT | >157.5 FT | >157.5 FT | YES |

- NOTES:**
- IMPERVIOUS COVERAGE PERCENTAGE IS CALCULATED AS IMPERVIOUS AREA / UPLAND AREA AS DEFINED IN THE FRANKLIN ZONING BYLAW.
 - THE FINANCIAL PARK CUL-DE-SAC (RIGHT-OF-WAY) IS EXCLUDED FROM THE AREAS USED FOR THE CALCULATIONS IN THIS CHART.
 - BUILDING COVERAGE PERCENTAGE IS CALCULATED AS BUILDING FOOTPRINT AREA / UPLAND AREA AS DEFINED IN THE FRANKLIN ZONING BYLAW.
 - EXISTING LOTS 5A & 5B SHALL BE RECONFIGURED AND RENAMED TO PROPOSED LOTS 5C & 5D, RESPECTIVELY TO MAINTAIN ZONING COMPLIANCE FOR THE DEVELOPMENT PLAN. APPROVAL OF AN ANR PLAN BY THE PLANNING BOARD IS REQUIRED.

PARKING SUMMARY

| | GROSS FLOOR AREA | REQUIRED | PROVIDED |
|--------------------|------------------|----------|----------|
| BUILDING 1 | | | |
| PROPOSED WAREHOUSE | 206,500 GSF | 207 SP. | - |
| PROPOSED OFFICE | 13,500 GSF | 54 SP. | - |
| SUBTOTAL | | 261 SP. | |
| BUILDING 2 | | | |
| PROPOSED WAREHOUSE | 57,750 GSF | 58 SP. | - |
| PROPOSED OFFICE | 7,250 GSF | 29 SP. | - |
| SUBTOTAL | | 87 SP. | |
| BUILDING 3 | | | |
| EXISTING WAREHOUSE | 65,000 GSF ± | 65 SP. | - |
| PROPOSED TOTAL | 350,000 GSF ± | 413 SP. | 262 SP. |

VEHICULAR PARKING REQUIREMENTS

| DESCRIPTION | CALCULATION |
|--------------|-------------------------------|
| OFFICE SPACE | 1 PARKING SPACE PER 250 GSF |
| WAREHOUSE | 1 PARKING SPACE PER 1,000 GSF |

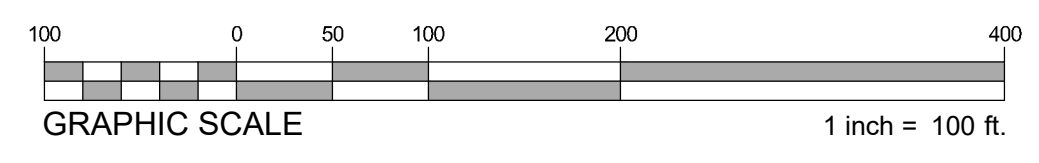
- NOTES:**
- A PARKING WAIVER IS REQUIRED FROM THE FRANKLIN PLANNING BOARD.

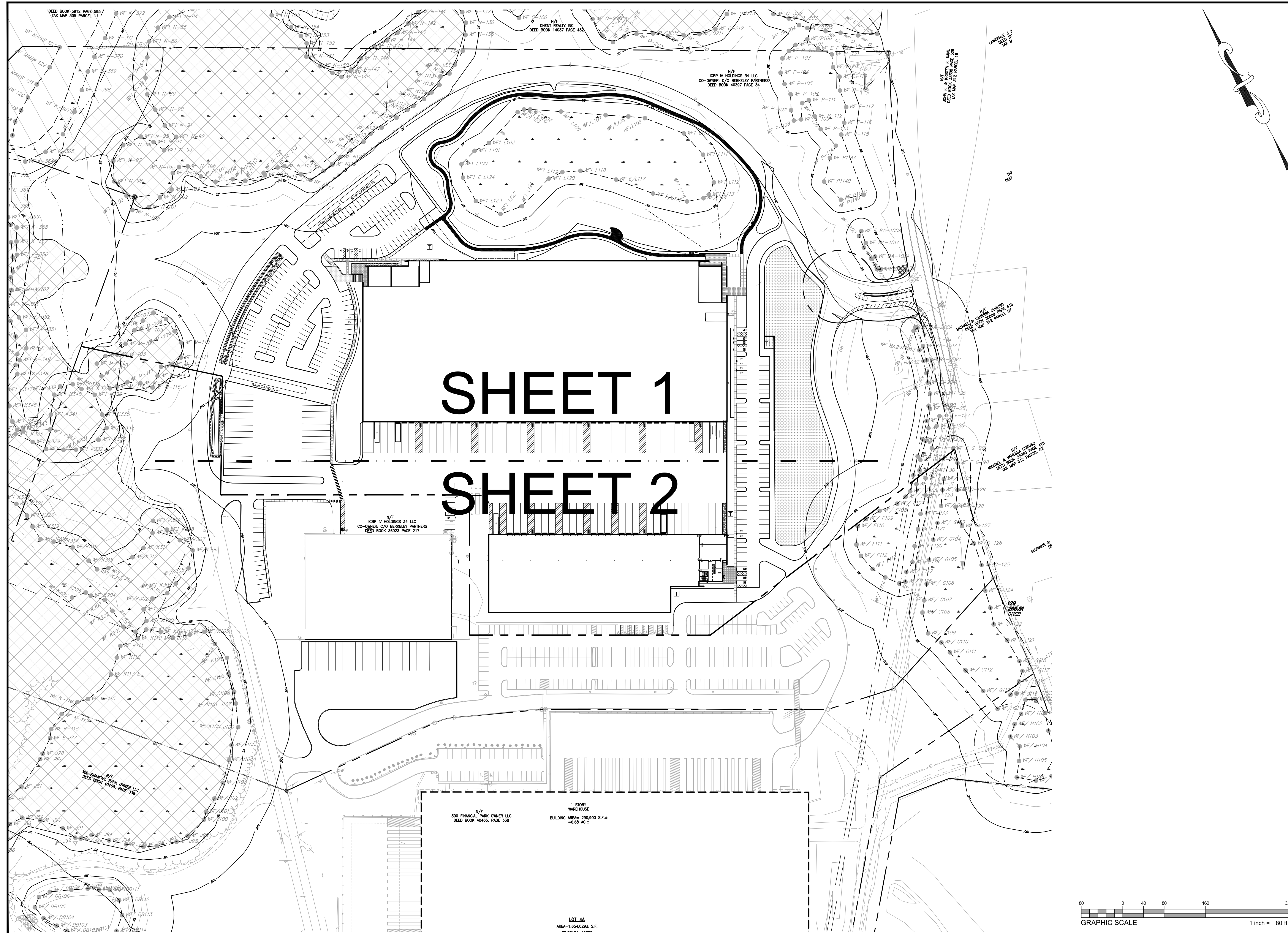
SYMBOL LEGEND

| | |
|--------------------|--------------------------------|
| [Symbol] | PROPOSED HEAVY DUTY BIT. CONC. |
| [Symbol] | PROPOSED BIT. CONC. |
| [Symbol] | PROPOSED CONCRETE |
| FEMA LEGEND | |
| [Symbol] | FLOOD ZONE "X" |
| [Symbol] | FLOOD ZONE "AE" |
| [Symbol] | FLOOD WAY |

ELEVATION BENCH MARKS

| NO. | DESCRIPTION | ELEV. |
|-----|---------------------------|--------|
| L | MAGNETIC NAIL IN PAVEMENT | 266.93 |
| M | MAGNETIC NAIL IN PAVEMENT | 254.42 |
| N | MAGNETIC NAIL IN PAVEMENT | 251.92 |



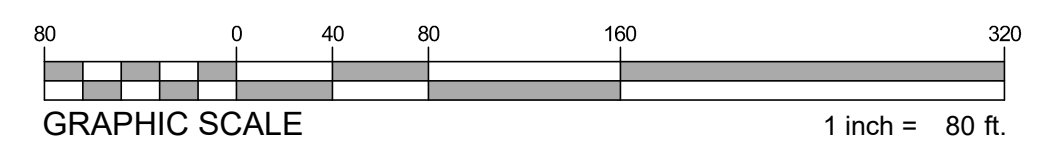


SHEET 1

SHEET 2

1 STORY WAREHOUSE
 BUILDING AREA= 290,900 S.F.±
 ±6.68 AC.±

LOT 4A
 AREA=1,654,029± S.F.



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 BOSTON, MA 02108

CONSULTANT:

SEAL

 10-05-2023

WAREHOUSE/INDUSTRIAL DEVELOPMENT
 100/200 FINANCIAL PARK
 FRANKLIN, MA
 OWNER/APPLICANT: BERKELEY PARTNERS

| REV | DATE | DESCRIPTION |
|-----|------------|----------------------|
| 4 | 10.05.2023 | RESPONSE TO COMMENTS |
| 3 | 08.15.2023 | RESPONSE TO COMMENTS |
| 2 | 08.14.2023 | RESPONSE TO COMMENTS |
| 1 | 07.17.2023 | RESPONSE TO COMMENTS |

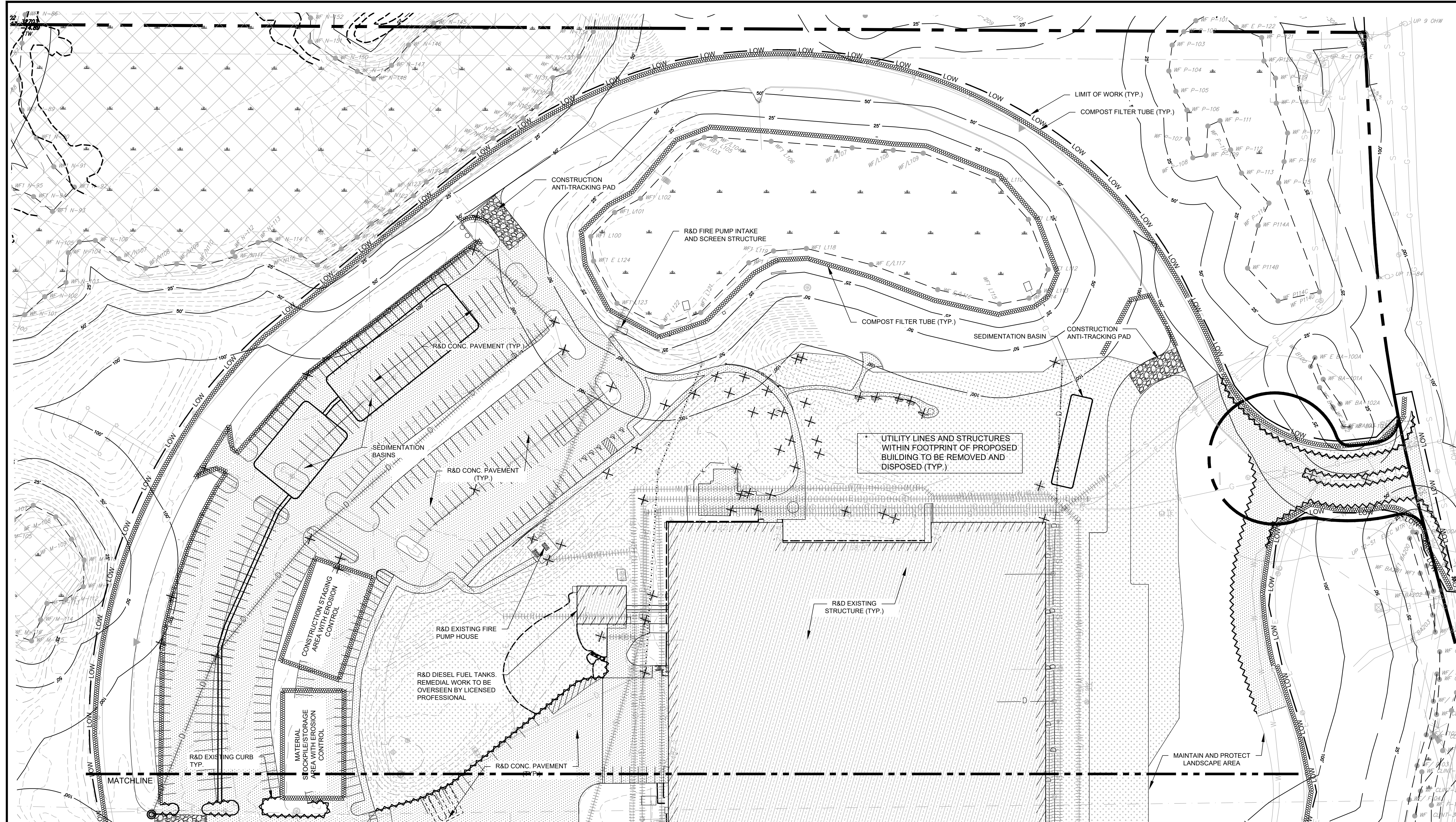
ISSUE TYPE:
 PERMIT SET
 ISSUE DATE:
 05/11/2023
 PROJECT NUMBER:
 22051

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 CHECKED BY: DJH
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SHEET TITLE:
KEY SHEET

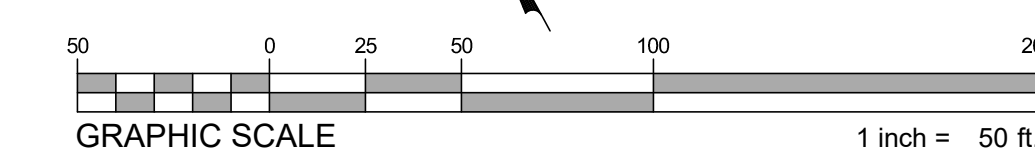
SHEET NUMBER:
C101

ISSUED FOR: PERMIT



- NOTE:
- SEE SHEET G100 FOR GENERAL SOIL EROSION AND SEDIMENTATION CONTROL & SITE PREPARATION NOTES
 - ALL SLOPES WITH A GRADE OF 3:1 (H:V, 33.3%) OR STEEPER, ARE TO BE TREATED WITH JUTE MESH FOR STABILIZATION CONTROL. (TYP.) REFER TO DETAIL
 - NO DISCHARGES FROM TEMPORARY SEDIMENTATION BASINS ARE TO BE CONNECTED TO THE MUNICIPAL STORM WATER SYSTEM.
 - PRIOR TO COMMENCEMENT OF CONSTRUCTION, ANY RELOCATED AND RECONSTRUCTED EXISTING PUBLIC WATER AND SEWER UTILITIES THAT RUN THROUGH THE SITE SHALL BE COORDINATED WITH FRANKLIN UTILITIES.
 - BUILDING DEMOLITION AND ANY REQUIRED ABATEMENT SHALL BE COMPLETED UNDER THE SUPERVISION OF A LICENSED SITE PROFESSIONAL IN ACCORDANCE WITH MASSACHUSETTS STATE LAWS.

| SYMBOL LEGEND | | | |
|---------------|---|-----|----------------------------|
| | STRAW WATTLE EROSION CONTROL BARRIER | M&P | MAINTAIN AND PROTECT |
| | SILTSACK CATCH BASIN INSERT | R&D | REMOVE AND DISPOSE |
| | CONSTRUCTION ANTI-TRACKING PAD | | DENOTES TREE TO BE REMOVED |
| | R&D EXISTING UTILITY LINE | | |
| | R&D EXISTING CURB | | |
| | R&D EXISTING STRUCTURE | | |
| | R&D PAVEMENT/CONCRETE AND GRAVEL BASE LAYER | | |
| | STRIP LOAM AND STOCKPILE ON SITE | | |
| | SEAL COAT CRACKS & PATCH | | |
| | REMOVE & DISPOSE EXISTING OBJECT | | |



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 BOSTON, MA 02108

CONSULTANT:

SEAL

10-05-2023

WAREHOUSE/INDUSTRIAL DEVELOPMENT

100/200 FINANCIAL PARK
 FRANKLIN, MA

OWNER/APPLICANT: BERKELEY PARTNERS

| REV | DATE | DESCRIPTION |
|-----|------------|----------------------|
| 4 | 10.05.2023 | RESPONSE TO COMMENTS |
| 3 | 08.15.2023 | RESPONSE TO COMMENTS |
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| 1 | 07.17.2023 | RESPONSE TO COMMENTS |

ISSUE TYPE:
 PERMIT SET

ISSUE DATE:
 05/11/2023

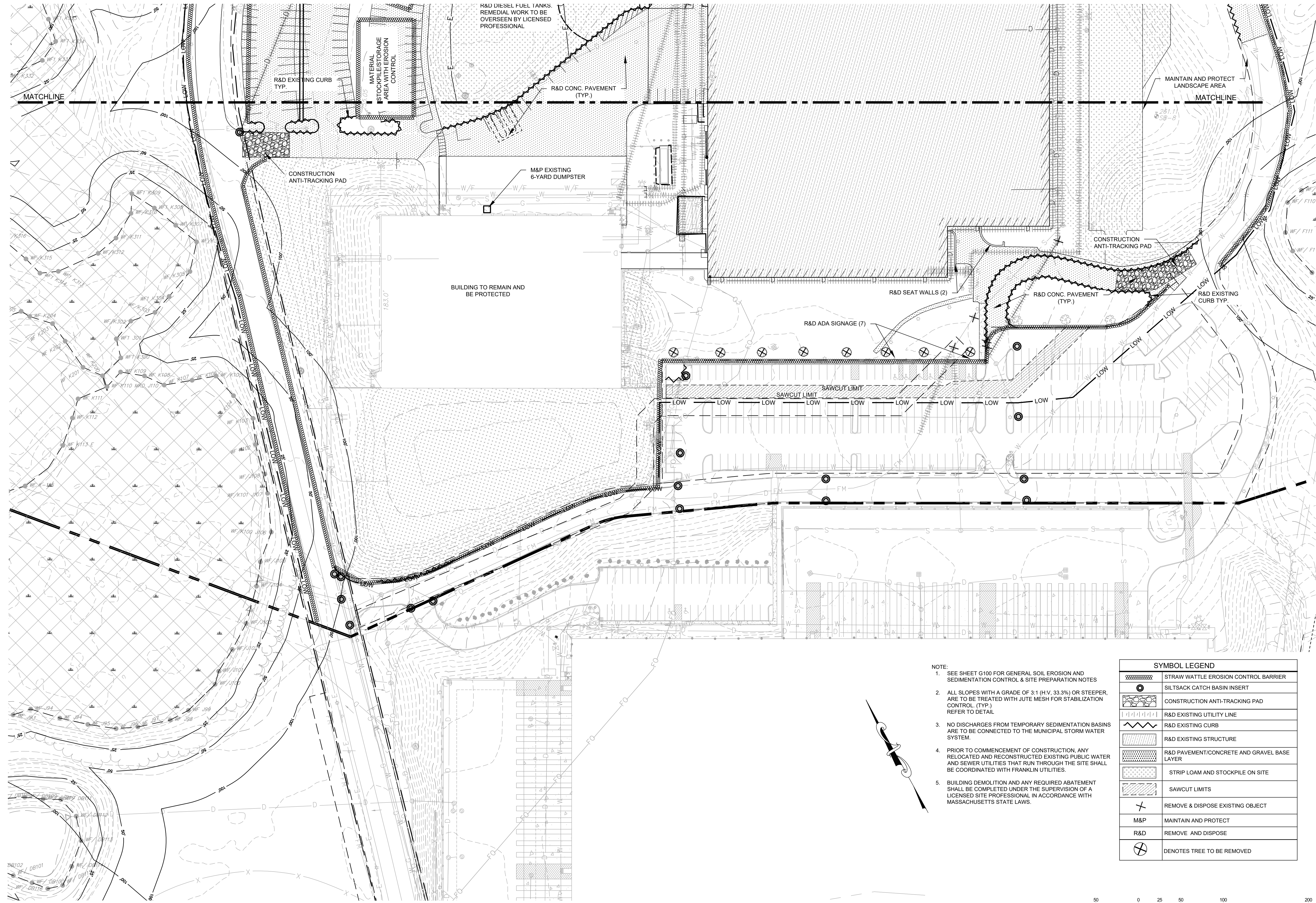
PROJECT NUMBER:
 22051

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 CHECKED BY: DJH

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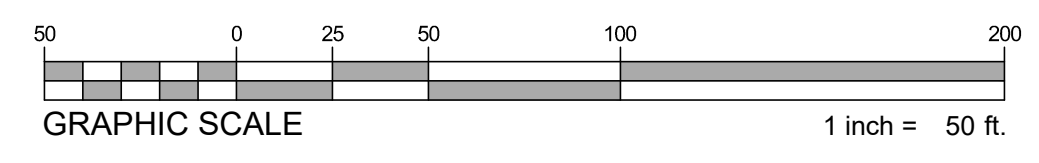
SHEET TITLE:
SITE PREPARATION & EROSION CONTROL PLAN

SHEET NUMBER:
C200



- NOTE:
- SEE SHEET G100 FOR GENERAL SOIL EROSION AND SEDIMENTATION CONTROL & SITE PREPARATION NOTES
 - ALL SLOPES WITH A GRADE OF 3:1 (H:V. 33.3%) OR STEEPER, ARE TO BE TREATED WITH JUTE MESH FOR STABILIZATION CONTROL. (TYP.) REFER TO DETAIL
 - NO DISCHARGES FROM TEMPORARY SEDIMENTATION BASINS ARE TO BE CONNECTED TO THE MUNICIPAL STORM WATER SYSTEM.
 - PRIOR TO COMMENCEMENT OF CONSTRUCTION, ANY RELOCATED AND RECONSTRUCTED EXISTING PUBLIC WATER AND SEWER UTILITIES THAT RUN THROUGH THE SITE SHALL BE COORDINATED WITH FRANKLIN UTILITIES.
 - BUILDING DEMOLITION AND ANY REQUIRED ABATEMENT SHALL BE COMPLETED UNDER THE SUPERVISION OF A LICENSED SITE PROFESSIONAL IN ACCORDANCE WITH MASSACHUSETTS STATE LAWS.

| SYMBOL LEGEND | |
|---------------|---|
| | STRAW WATTLE EROSION CONTROL BARRIER |
| | SILTSACK CATCH BASIN INSERT |
| | CONSTRUCTION ANTI-TRACKING PAD |
| | R&D EXISTING UTILITY LINE |
| | R&D EXISTING CURB |
| | R&D EXISTING STRUCTURE |
| | R&D PAVEMENT/CONCRETE AND GRAVEL BASE LAYER |
| | STRIP LOAM AND STOCKPILE ON SITE |
| | SAWCUT LIMITS |
| | REMOVE & DISPOSE EXISTING OBJECT |
| | MAINTAIN AND PROTECT |
| | REMOVE AND DISPOSE |
| | DENOTES TREE TO BE REMOVED |



| REV | DATE | DESCRIPTION |
|-----|------------|----------------------|
| 4 | 10.05.2023 | RESPONSE TO COMMENTS |
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| 1 | 07.17.2023 | RESPONSE TO COMMENTS |

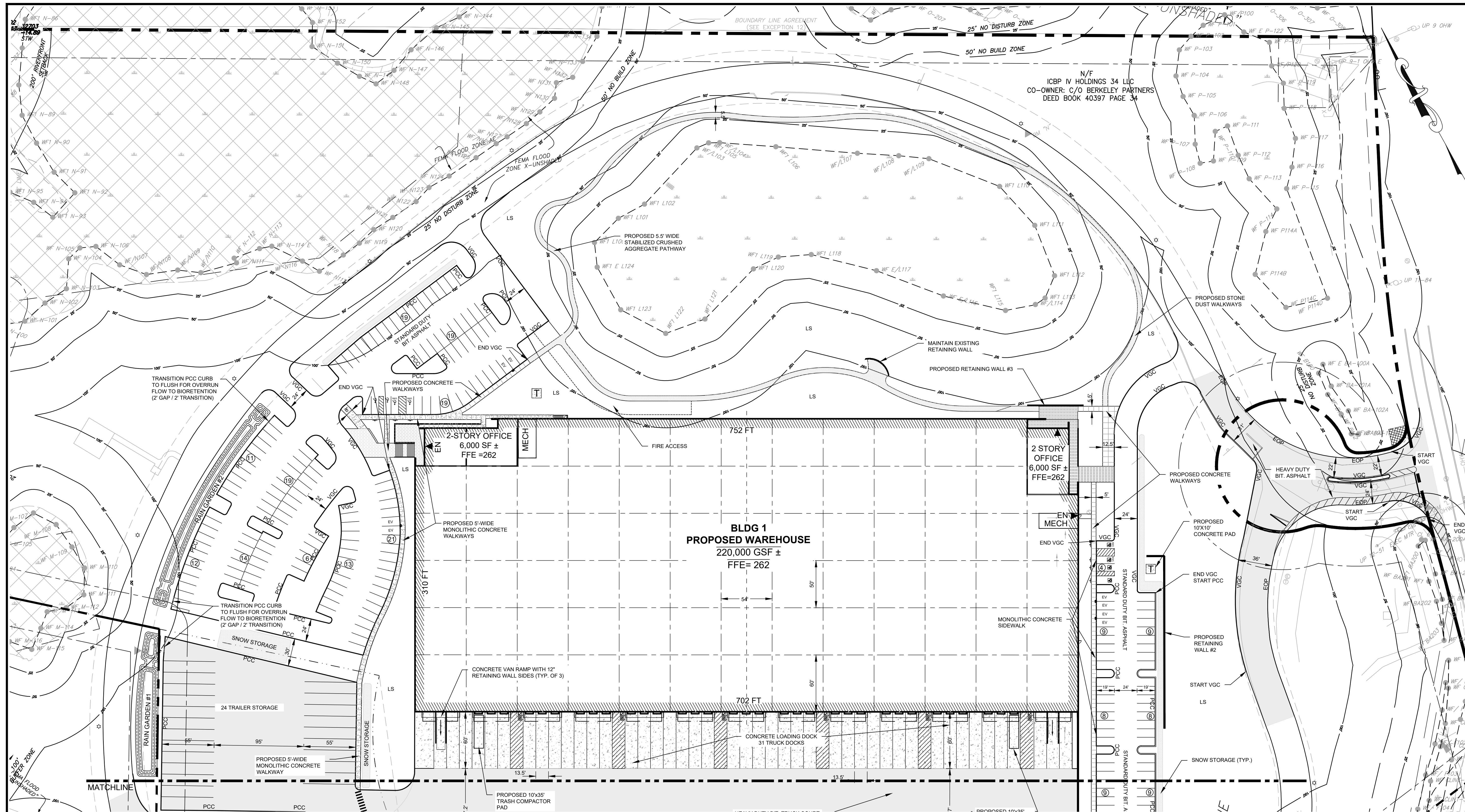
ISSUE TYPE:
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ISSUE DATE:
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PROJECT NUMBER:
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SHEET TITLE:
SITE PREPARATION & EROSION CONTROL PLAN

SHEET NUMBER:
C201

ISSUED FOR: PERMIT



| REV | DATE | DESCRIPTION |
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| 4 | 10.05.2023 | RESPONSE TO COMMENTS |
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| 2 | 08.14.2023 | RESPONSE TO COMMENTS |
| 1 | 07.17.2023 | RESPONSE TO COMMENTS |

ISSUE TYPE:
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 ISSUE DATE:
 05/11/2023
 PROJECT NUMBER:
 22051

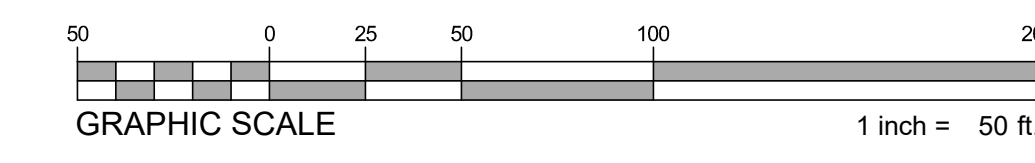
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SHEET TITLE:
LAYOUT & MATERIALS PLAN
 SHEET NUMBER:
C300
 ISSUED FOR: PERMIT

SYMBOL LEGEND

| | |
|-----------------|---|
| EOP | EDGE OF PAVEMENT |
| CCB | CAPE COD BERM |
| PCC | PRECAST CONCRETE CURB |
| VGC | VERTICAL GRANITE CURB |
| SGC | SLOPED GRANITE CURB |
| (14) | PARKING SPACE COUNT |
| [Hatched Box] | PATCH, CRACK SEAL, AND SEALCOAT EXISTING BIT. CONC. |
| [Dotted Box] | PROPOSED HEAVY DUTY BIT. CONC. |
| [White Box] | PROPOSED BIT. CONC. |
| [Stippled Box] | PROPOSED CONCRETE |
| LS | PROPOSED LANDSCAPE |
| EN | PROPOSED BUILDING EGRESS |
| RW | PROPOSED RETAINING WALL |
| [Square with X] | PROPOSED ELECTRICAL PADS |
| [Square with D] | PROPOSED ACCESSIBLE STALL |

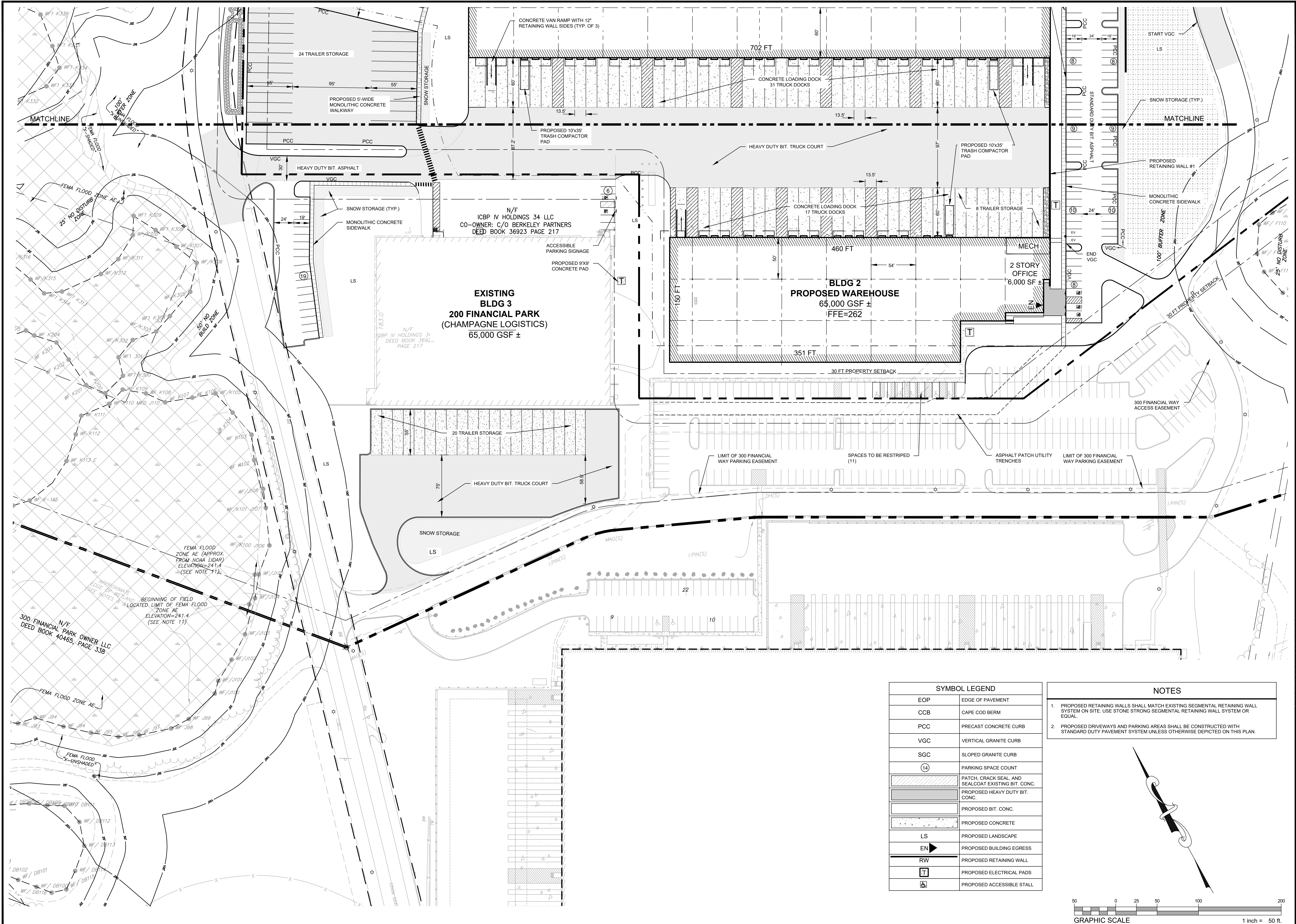
- NOTES**
- PROPOSED RETAINING WALLS SHALL MATCH EXISTING SEGMENTAL RETAINING WALL SYSTEM ON SITE. USE STONE STRONG SEGMENTAL RETAINING WALL SYSTEM OR EQUAL.
 - PROPOSED DRIVEWAYS AND PARKING AREAS SHALL BE CONSTRUCTED WITH STANDARD DUTY PAVEMENT SYSTEM UNLESS OTHERWISE DEPICTED ON THIS PLAN.



WAREHOUSE/INDUSTRIAL DEVELOPMENT

100/200 FINANCIAL PARK
 FRANKLIN, MA

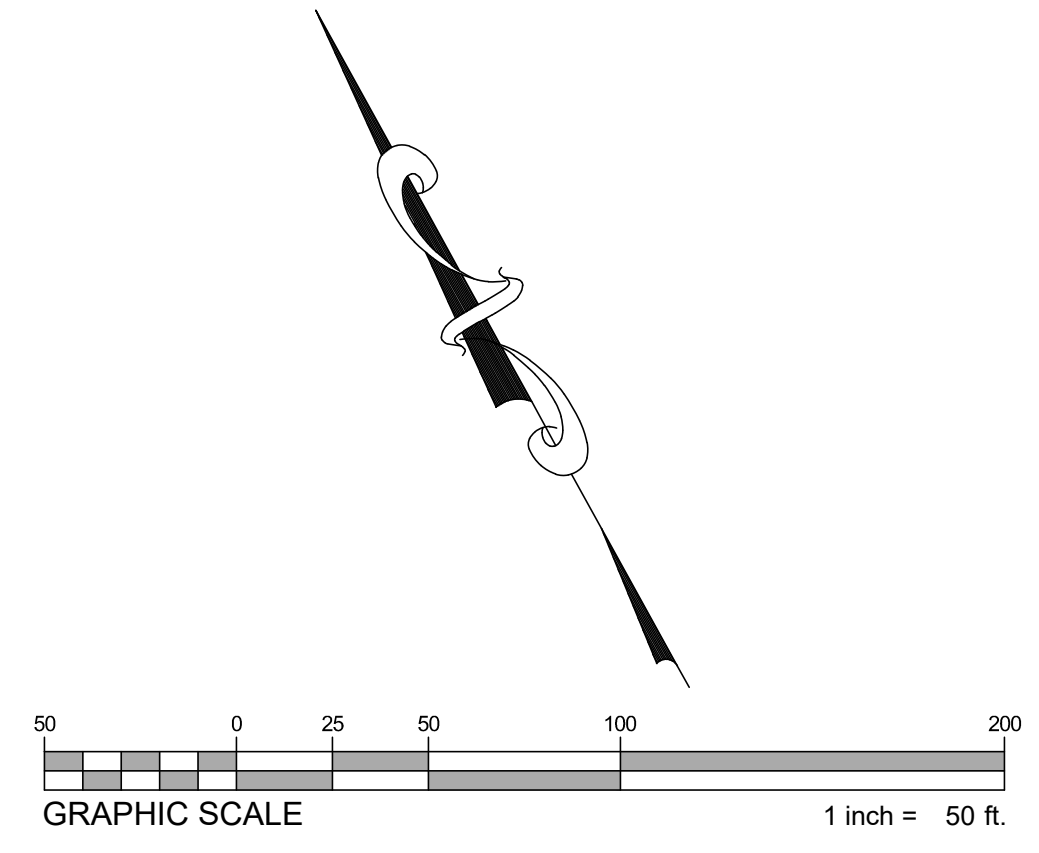
OWNER/APPLICANT: BERKELEY PARTNERS



SYMBOL LEGEND

| | |
|--------------------------|--|
| EOP | EDGE OF PAVEMENT |
| CCB | CAPE COD BERM |
| PCC | PRECAST CONCRETE CURB |
| VGC | VERTICAL GRANITE CURB |
| SGC | SLOPED GRANITE CURB |
| (14) | PARKING SPACE COUNT |
| [Hatched Pattern] | PATCH, CRACK SEAL AND SEALCOAT EXISTING BIT. CONC. |
| [Dark Grey Pattern] | PROPOSED HEAVY DUTY BIT. CONC. |
| [Light Grey Pattern] | PROPOSED BIT. CONC. |
| [Dotted Pattern] | PROPOSED CONCRETE |
| LS | PROPOSED LANDSCAPE |
| EN | PROPOSED BUILDING EGRESS |
| RW | PROPOSED RETAINING WALL |
| [Square with T] | PROPOSED ELECTRICAL PADS |
| [Square with Wheelchair] | PROPOSED ACCESSIBLE STALL |

- NOTES**
- PROPOSED RETAINING WALLS SHALL MATCH EXISTING SEGMENTAL RETAINING WALL SYSTEM ON SITE. USE STONE STRONG SEGMENTAL RETAINING WALL SYSTEM OR EQUAL.
 - PROPOSED DRIVEWAYS AND PARKING AREAS SHALL BE CONSTRUCTED WITH STANDARD DUTY PAVEMENT SYSTEM UNLESS OTHERWISE DEPICTED ON THIS PLAN.



REV. DATE. DESCRIPTION

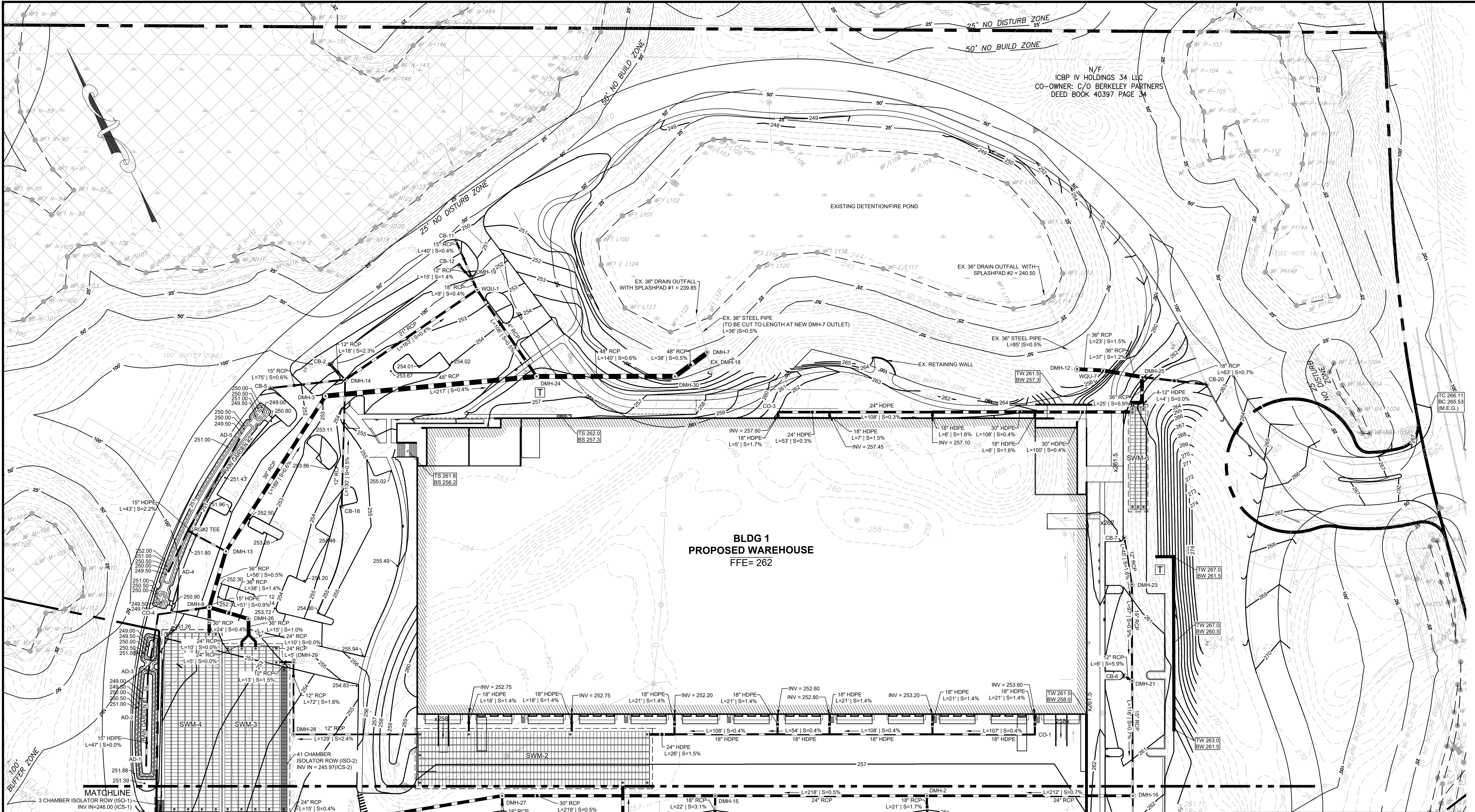
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| 4 | 10.05.2023 | RESPONSE TO COMMENTS |
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ISSUE TYPE:
 PERMIT SET
 ISSUE DATE:
 05/11/2023
 PROJECT NUMBER:
 22051

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 CHECKED BY: DJH
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LAYOUT & MATERIALS PLAN

SHEET NUMBER:
C301



| STRUCTURE | ELEV. | STRUCTURE | ELEV. | STRUCTURE | ELEV. | STRUCTURE | ELEV. | STRUCTURE | ELEV. |
|------------------------|---|--------------------------------|--|--------------------------------|--|-----------------------|---|----------------------------|--|
| AD-1 15' AREA DRAIN | RIM = 250.50 INV OUT = 247.50 (AD-2) | CB-6 DOUBLE GRATE | RIM = 260.01 INV OUT = 255.70 (DMH-21) | CO-3 18" NYLOPLAST CLEANOUT | RIM = 262.00 INV IN = 267.50 (Bldg 1 - North 1) INV OUT = 257.50 (BLDG 1 TEE 1 N) | DMH-13 5' DIA. DMH | RIM = 252.17 INV IN = 246.50 (RG#2 TEE) INV OUT = 244.50 (DMH-8) INV OUT = 244.00 (DMH-3) | DMH-24 5' DIA. DMH | RIM = 256.22 INV IN = 242.20 (DMH-3) INV IN = 246.00 (WQU-1) INV OUT = 242.10 (DMH-30) |
| AD-2 15' AREA DRAIN | RIM = 249.35 INV IN = 247.50 (AD-1) INV OUT = 247.50 (AD-3) | CB-7 SINGLE GRATE | RIM = 261.47 INV OUT = 256.80 (DMH-23) | CO-4 18" NYLOPLAST CLEANOUT | RIM = 251.16 INV IN = 247.50 (AD-3) INV IN = 247.00 (DMH-8) | DMH-14 4' DIA. DMH | RIM = 253.01 INV IN = 247.30 (CB-2) INV IN = 247.30 (CB-5) INV IN = 247.70 (CB-18) INV OUT = 247.20 (WQU-1) | DMH-25 5' DIA. DROP DMH | RIM = 261.88 INV IN = 257.00 (CB-20) INV IN = 255.50 (SWM-6 OUT) INV OUT = 251.00 (WQU-7) |
| AD-3 15' AREA DRAIN | RIM = 250.50 INV IN = 247.50 (AD-2) INV OUT = 247.50 (CO-4) | CB-11 SINGLE GRATE | RIM = 250.89 INV OUT = 247.15 (DMH-19) | DMH-2 4' DIA. DMH | RIM = 256.31 INV IN = 250.00 (DMH-16) INV IN = 250.50 (CB-8) INV OUT = 249.90 (DMH-15) | DMH-15 4' DIA. DMH | RIM = 256.32 INV IN = 248.70 (DMH-2) INV IN = 248.70 (CB-9) INV OUT = 248.60 (DMH-6) | DMH-26 4' DIA. DMH | RIM = 253.20 INV IN = 246.00 (SWM-3 OUT) INV OUT = 245.90 (DMH-6) |
| AD-4 15' AREA DRAIN | RIM = 250.50 INV IN = 247.50 (RG#2 TEE) | CB-18 SINGLE GRATE | RIM = 254.59 INV OUT = 248.40 (DMH-14) | DMH-3 5' DIA. DMH | RIM = 253.15 INV IN = 243.20 (DMH-13) INV OUT = 243.10 (DMH-24) | DMH-16 5' DIA. DMH | RIM = 261.56 INV IN = 254.00 (DMH-21) INV IN = 256.30 (DMH-5) INV OUT = 251.50 (DMH-2) | DMH-27 5' DIA. DMH | RIM = 256.32 INV IN = 247.50 (DMH-15) INV IN = 247.50 (CB-19) INV OUT = 247.40 (CS-2) |
| AD-5 15' AREA DRAIN | RIM = 249.97 INV IN = 247.50 (AD-2) | CB-20 DOUBLE GRATE | RIM = 262.69 INV OUT = 257.50 (DMH-25) | DMH-7 4' DIA. DMH | RIM = 248.80 INV IN = 241.00 (DMH-30) INV OUT = 240.17 (EX. SPLASH PAD #1) | DMH-19 4' DIA. DMH | RIM = 252.01 INV IN = 248.75 (CB-12) INV IN = 247.00 (CB-11) INV OUT = 244.80 (WQU-1) | DMH-28 4' DIA. DMH | RIM = 254.31 INV IN = 247.75 (DMH-2) INV IN = 247.80 (DMH-28) INV OUT = 247.70 (SWM-3 IN (2)) |
| CB-2 SINGLE GRATE | RIM = 252.16 INV IN = 247.80 (DMH-14) | CO-1 18" NYLOPLAST CLEANOUT | RIM = 257.59 INV IN = 253.30 (Bldg 1 - South 1) INV IN = 253.30 (RL TEE 1) | DMH-8 5' DIA. DMH | RIM = 252.23 INV IN = 244.90 (SWM-4 OUT) INV IN = 245.30 (DMH-26) INV IN = 247.00 (CO-4) INV OUT = 244.80 (SWM-13) | DMH-21 4' DIA. DMH | RIM = 260.17 INV IN = 255.10 (CB-6) INV IN = 255.00 (DMH-23) INV OUT = 254.90 (DMH-16) | DMH-30 5' DIA. DMH | RIM = 252.62 INV IN = 241.30 (DMH-24) INV OUT = 241.20 (DMH-7) |
| CB-5 SINGLE GRATE | RIM = 251.60 INV OUT = 247.80 (DMH-14) | | | DMH-12 5' DIA. DROP DMH | RIM = 255.00 INV IN = 249.60 (WQU-7) INV OUT = 241.00 (EX. SPLASH PAD #2) | DMH-23 4' DIA. DMH | RIM = 261.16 INV IN = 256.00 (CB-7) INV OUT = 255.90 (DMH-21) | | |

| STRUCTURE | SYSTEM ELEV. | SYSTEM CONNECTIONS |
|--|---|--|
| SWM-2: CULTEC R902HD 249.03' x 63.25' 528 TOTAL CHAMBERS (8 ROWS x 66 CHAMBERS) | TOP OF STONE = 255.25 TOP OF SYSTEM = 254.25 BOTTOM OF SYSTEM = 250.25 BOTTOM OF STONE = 249.50 ESHWG = 247.30 WELL = 246.00 FRIMPITER = 1.30 | INV OUT = 252.75 (12" HDPE - DMH-28) INV IN = 251.40 (30" RCP - DMH-17) INV IN = 246.85 (DMH-19) INV IN = 246.50 (DMH-24) |
| SWM-3: CULTEC R902HD 179.37' x 63.25' 376 TOTAL CHAMBERS (8 ROWS x 47 CHAMBERS) | TOP OF STONE = 249.75 TOP OF SYSTEM = 248.75 BOTTOM OF SYSTEM = 244.75 BOTTOM OF STONE = 244.00 ESHWG = 241.30 WELL = 240.00 FRIMPITER = 1.30 | INV OUT = 246.16 (2-24" RCP - DMH-26) INV IN = 246.50 (18" HDPE - SWM-2) INV IN = 245.85 (30" RCP - WQU-4) |
| SWM-4: CULTEC R902HD 194.03' x 63.25' 408 TOTAL CHAMBERS (8 ROWS x 51 CHAMBERS) | TOP OF STONE = 248.75 TOP OF SYSTEM = 247.75 BOTTOM OF SYSTEM = 243.75 BOTTOM OF STONE = 243.00 ESHWG = 240.30 WELL = 239.00 FRIMPITER = 1.30 | INV OUT = 245.00 (30" RCP - DMH-28) INV IN = 245.00 (30" RCP - DMH-21) INV IN = 246.50 (12" HDPE HEADER - ICS-1) |
| SWM-6: CULTEC R360HD 114.83' x 22.50' 87 TOTAL CHAMBERS (3 ROWS x 29 CHAMBERS) | TOP OF STONE = 259.00 TOP OF SYSTEM = 259.00 BOTTOM OF SYSTEM = 256.00 BOTTOM OF STONE = 255.50 ESHWG = 253.30 WELL = 252.00 FRIMPITER = 1.30 | INV OUT = 257.10 (4 - 12" HDPE - DMH-25) INV IN = 256.25 (30" RCP - DMH-19) |

SYMBOL LEGEND

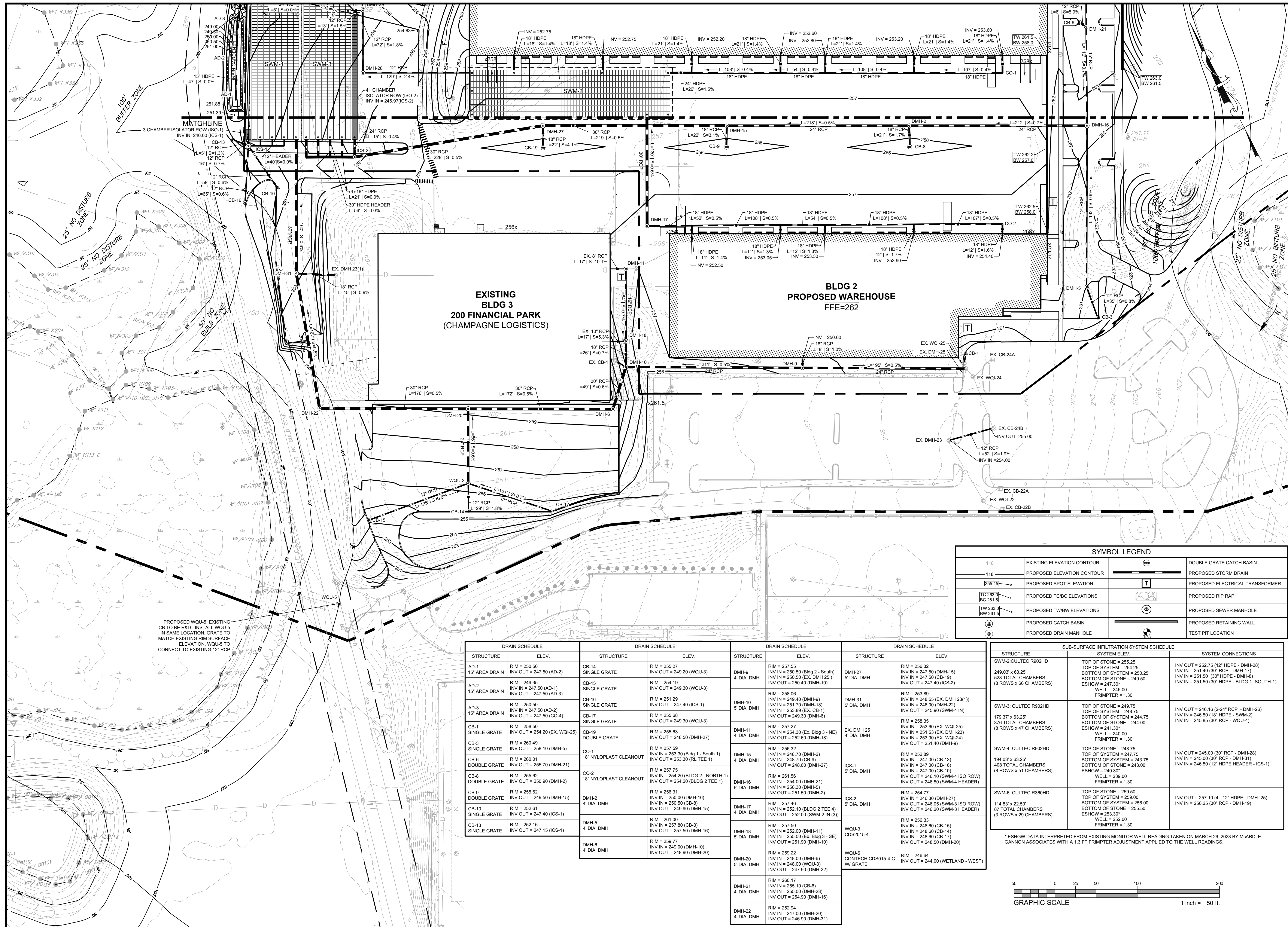
- 118 - EXISTING ELEVATION CONTOUR
- 118 - PROPOSED ELEVATION CONTOUR
- 118 - PROPOSED SPOT ELEVATION
- 118 - PROPOSED TC/BC ELEVATIONS
- 118 - PROPOSED TW/BW ELEVATIONS
- 118 - PROPOSED CATCH BASIN
- 118 - PROPOSED DRAIN MANHOLE
- 118 - DOUBLE GRATE CATCH BASIN
- 118 - PROPOSED STORM DRAIN
- 118 - PROPOSED ELECTRICAL TRANSFORMER
- 118 - PROPOSED RIP RAP
- 118 - PROPOSED SEWER MANHOLE
- 118 - PROPOSED RETAINING WALL
- 118 - TEST PIT LOCATION

GRAPHIC SCALE: 1 inch = 50 ft.

| REV | DATE | DESCRIPTION |
|-----|------------|----------------------|
| 4 | 10.05.2023 | RESPONSE TO COMMENTS |
| 3 | 08.15.2023 | RESPONSE TO COMMENTS |
| 2 | 08.14.2023 | RESPONSE TO COMMENTS |
| 1 | 07.17.2023 | RESPONSE TO COMMENTS |

ISSUE TYPE:
PERMIT SET
ISSUE DATE:
05/11/2023
PROJECT NUMBER:
22051
DRAWN BY: JJP/JMP
CHECKED BY: DJH
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* ESHWG DATA INTERPRETED FROM EXISTING MONITOR WELL READING TAKEN ON MARCH 26, 2023 BY MARDLE GANNON ASSOCIATES WITH A 1.3 FT FRIMPITER ADJUSTMENT APPLIED TO THE WELL READINGS.

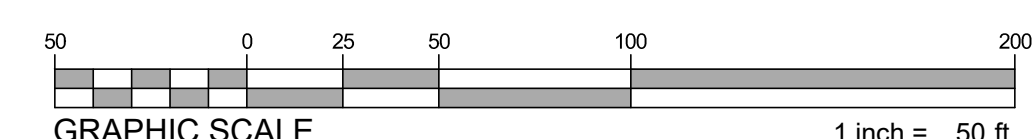


| SYMBOL LEGEND | | | |
|---------------|----------------------------|--|---------------------------------|
| | EXISTING ELEVATION CONTOUR | | DOUBLE GRATE CATCH BASIN |
| | PROPOSED ELEVATION CONTOUR | | PROPOSED STORM DRAIN |
| | PROPOSED SPOT ELEVATION | | PROPOSED ELECTRICAL TRANSFORMER |
| | PROPOSED TC/BC ELEVATIONS | | PROPOSED RIP RAP |
| | PROPOSED TW/BW ELEVATIONS | | PROPOSED SEWER MANHOLE |
| | PROPOSED CATCH BASIN | | PROPOSED RETAINING WALL |
| | PROPOSED DRAIN MANHOLE | | TEST PIT LOCATION |

| DRAIN SCHEDULE | | DRAIN SCHEDULE | | DRAIN SCHEDULE | | DRAIN SCHEDULE | |
|------------------------|--|--------------------------------|---|-----------------------|---|---------------------------|---|
| STRUCTURE | ELEV. | STRUCTURE | ELEV. | STRUCTURE | ELEV. | STRUCTURE | ELEV. |
| AD-1 15" AREA DRAIN | RIM = 250.50 INV IN = 247.50 (AD-2) INV OUT = 247.50 (AD-2) | CB-14 SINGLE GRATE | RIM = 257.27 INV IN = 249.20 (WQU-3) INV OUT = 249.20 (WQU-3) | DMH-9 4" DIA. DMH | RIM = 257.55 INV IN = 250.50 (Bldg 2 - South) INV IN = 250.50 (EX. DMH 25) INV OUT = 250.40 (DMH-10) | DMH-27 5" DIA. DMH | RIM = 256.32 INV IN = 247.50 (DMH-15) INV IN = 247.50 (CB-19) INV OUT = 247.40 (ICS-2) |
| AD-2 15" AREA DRAIN | RIM = 249.35 INV IN = 247.50 (AD-1) INV OUT = 247.50 (AD-3) | CB-15 SINGLE GRATE | RIM = 254.19 INV IN = 249.30 (WQU-3) INV OUT = 249.30 (WQU-3) | DMH-10 5" DIA. DMH | RIM = 258.06 INV IN = 249.40 (DMH-9) INV IN = 251.70 (DMH-18) INV IN = 253.89 (EX. CB-1) INV OUT = 250.40 (DMH-6) | DMH-31 5" DIA. DMH | RIM = 253.89 INV IN = 248.55 (EX. DMH 23(1)) INV IN = 246.00 (DMH-22) INV IN = 247.50 (DMH-23) INV IN = 253.90 (EX. WQI-24) INV OUT = 251.40 (DMH-9) |
| AD-3 15" AREA DRAIN | RIM = 250.50 INV IN = 247.50 (AD-2) INV OUT = 247.50 (CO-4) | CB-16 SINGLE GRATE | RIM = 251.29 INV IN = 247.40 (ICS-1) INV OUT = 247.40 (ICS-1) | DMH-11 4" DIA. DMH | RIM = 257.27 INV IN = 254.30 (EX. Bldg 3 - NE) INV OUT = 252.60 (DMH-18) | EX. DMH 25 4" DIA. DMH | RIM = 258.35 INV IN = 253.60 (EX. WQI-25) INV IN = 251.53 (EX. DMH-23) INV IN = 253.90 (EX. WQI-24) INV OUT = 251.40 (DMH-9) |
| CB-1 SINGLE GRATE | RIM = 258.50 INV IN = 254.20 (EX. WQI-25) INV OUT = 258.10 (DMH-5) | CB-17 SINGLE GRATE | RIM = 255.68 INV IN = 249.30 (WQU-3) INV OUT = 249.30 (WQU-3) | DMH-15 4" DIA. DMH | RIM = 256.32 INV IN = 248.70 (DMH-2) INV IN = 247.00 (CB-18) INV OUT = 246.50 (DMH-27) | ICS-1 5" DIA. DMH | RIM = 252.89 INV IN = 247.00 (CB-18) INV IN = 247.00 (CB-18) INV IN = 247.00 (CB-18) INV OUT = 246.50 (SWM-4 ISO ROW) |
| CB-3 SINGLE GRATE | RIM = 260.49 INV IN = 254.20 (DMH-21) INV OUT = 258.10 (DMH-5) | CB-19 DOUBLE GRATE | RIM = 255.63 INV IN = 248.50 (DMH-27) INV OUT = 248.50 (DMH-27) | DMH-16 5" DIA. DMH | RIM = 261.56 INV IN = 254.00 (DMH-21) INV IN = 256.30 (DMH-5) INV OUT = 251.50 (DMH-2) | DMH-17 4" DIA. DMH | RIM = 252.89 INV IN = 247.00 (CB-18) INV IN = 247.00 (CB-18) INV IN = 247.00 (CB-18) INV OUT = 246.50 (SWM-4 ISO ROW) |
| CB-6 DOUBLE GRATE | RIM = 260.01 INV IN = 255.70 (DMH-21) INV OUT = 255.70 (DMH-21) | CO-1 18" NYLOPLAST CLEANOUT | RIM = 257.59 INV IN = 254.30 (Bldg 1 - South 1) INV OUT = 254.20 (Bldg 2 TEE 1) | DMH-18 5" DIA. DMH | RIM = 257.59 INV IN = 254.20 (Bldg 2 - NORTH 1) INV IN = 254.20 (Bldg 2 TEE 1) INV OUT = 254.20 (Bldg 2 TEE 1) | DMH-20 5" DIA. DMH | RIM = 252.89 INV IN = 247.00 (CB-18) INV IN = 247.00 (CB-18) INV IN = 247.00 (CB-18) INV OUT = 246.50 (SWM-4 ISO ROW) |
| CB-8 DOUBLE GRATE | RIM = 255.62 INV IN = 250.90 (DMH-2) INV OUT = 250.90 (DMH-2) | CO-2 18" NYLOPLAST CLEANOUT | RIM = 257.75 INV IN = 254.20 (Bldg 2 - NORTH 1) INV IN = 254.20 (Bldg 2 TEE 1) INV OUT = 254.20 (Bldg 2 TEE 1) | DMH-21 4" DIA. DMH | RIM = 256.32 INV IN = 248.70 (DMH-2) INV IN = 247.00 (CB-18) INV OUT = 246.50 (DMH-27) | DMH-22 4" DIA. DMH | RIM = 252.89 INV IN = 247.00 (CB-18) INV IN = 247.00 (CB-18) INV IN = 247.00 (CB-18) INV OUT = 246.50 (SWM-4 ISO ROW) |
| CB-9 DOUBLE GRATE | RIM = 255.62 INV IN = 249.50 (DMH-15) INV OUT = 249.50 (DMH-15) | DMH-5 4" DIA. DMH | RIM = 256.31 INV IN = 250.00 (DMH-16) INV IN = 250.50 (CB-8) INV OUT = 249.90 (DMH-15) | DMH-22 4" DIA. DMH | RIM = 257.46 INV IN = 252.10 (Bldg 2 TEE 4) INV IN = 252.10 (Bldg 2 TEE 4) INV OUT = 252.00 (SWM-2 IN (3)) | DMH-23 4" DIA. DMH | RIM = 252.89 INV IN = 248.00 (CB-15) INV IN = 248.00 (CB-14) INV IN = 248.00 (CB-17) INV OUT = 248.50 (DMH-20) |
| CB-10 SINGLE GRATE | RIM = 252.61 INV IN = 247.40 (ICS-1) INV OUT = 247.40 (ICS-1) | DMH-6 4" DIA. DMH | RIM = 251.00 INV IN = 257.80 (CB-3) INV IN = 257.50 (DMH-16) INV OUT = 257.50 (DMH-16) | DMH-23 4" DIA. DMH | RIM = 257.59 INV IN = 252.10 (Bldg 2 TEE 4) INV IN = 252.10 (Bldg 2 TEE 4) INV OUT = 252.00 (SWM-2 IN (3)) | DMH-24 4" DIA. DMH | RIM = 256.32 INV IN = 248.00 (CB-15) INV IN = 248.00 (CB-14) INV IN = 248.00 (CB-17) INV OUT = 248.50 (DMH-20) |
| CB-13 SINGLE GRATE | RIM = 252.16 INV IN = 247.15 (ICS-1) INV OUT = 247.15 (ICS-1) | DMH-20 5" DIA. DMH | RIM = 259.77 INV IN = 249.00 (DMH-10) INV OUT = 248.90 (DMH-20) | DMH-24 4" DIA. DMH | RIM = 257.59 INV IN = 252.10 (Bldg 2 TEE 4) INV IN = 252.10 (Bldg 2 TEE 4) INV OUT = 252.00 (SWM-2 IN (3)) | DMH-25 4" DIA. DMH | RIM = 256.32 INV IN = 248.00 (CB-15) INV IN = 248.00 (CB-14) INV IN = 248.00 (CB-17) INV OUT = 248.50 (DMH-20) |
| | | DMH-21 4" DIA. DMH | RIM = 259.22 INV IN = 248.00 (DMH-6) INV IN = 248.00 (WQU-3) INV OUT = 247.90 (DMH-22) | DMH-25 4" DIA. DMH | RIM = 257.59 INV IN = 252.10 (Bldg 2 TEE 4) INV IN = 252.10 (Bldg 2 TEE 4) INV OUT = 252.00 (SWM-2 IN (3)) | DMH-26 4" DIA. DMH | RIM = 256.32 INV IN = 248.00 (CB-15) INV IN = 248.00 (CB-14) INV IN = 248.00 (CB-17) INV OUT = 248.50 (DMH-20) |
| | | DMH-22 4" DIA. DMH | RIM = 259.17 INV IN = 255.10 (CB-6) INV IN = 255.00 (DMH-23) INV OUT = 254.90 (DMH-16) | DMH-26 4" DIA. DMH | RIM = 257.59 INV IN = 252.10 (Bldg 2 TEE 4) INV IN = 252.10 (Bldg 2 TEE 4) INV OUT = 252.00 (SWM-2 IN (3)) | DMH-27 4" DIA. DMH | RIM = 256.32 INV IN = 248.00 (CB-15) INV IN = 248.00 (CB-14) INV IN = 248.00 (CB-17) INV OUT = 248.50 (DMH-20) |
| | | | RIM = 252.94 INV IN = 247.00 (DMH-20) INV OUT = 246.90 (DMH-31) | DMH-27 4" DIA. DMH | RIM = 257.59 INV IN = 252.10 (Bldg 2 TEE 4) INV IN = 252.10 (Bldg 2 TEE 4) INV OUT = 252.00 (SWM-2 IN (3)) | DMH-28 4" DIA. DMH | RIM = 256.32 INV IN = 248.00 (CB-15) INV IN = 248.00 (CB-14) INV IN = 248.00 (CB-17) INV OUT = 248.50 (DMH-20) |

| SUB-SURFACE INFILTRATION SYSTEM SCHEDULE | | |
|---|---|---|
| STRUCTURE | SYSTEM ELEV. | SYSTEM CONNECTIONS |
| SWM-2 CULTEC R902HD 249.03' x 63.25' 528 TOTAL CHAMBERS (8 ROWS x 66 CHAMBERS) | TOP OF STONE = 255.25 TOP OF SYSTEM = 254.25 BOTTOM OF SYSTEM = 250.25 BOTTOM OF STONE = 249.50 ESHWG = 247.30" WELL = 246.00" FRIMPITER = 1.30 | INV OUT = 252.75 (12" HDPE - DMH-28) INV IN = 251.40 (30" RCP - DMH-17) INV IN = 251.50 (30" HDPE - DMH-8) INV IN = 251.50 (30" HDPE - BLDG 1 - SOUTH-1) |
| SWM-3 CULTEC R902HD 179.37' x 63.25' 376 TOTAL CHAMBERS (6 ROWS x 47 CHAMBERS) | TOP OF STONE = 249.75 TOP OF SYSTEM = 248.75 BOTTOM OF SYSTEM = 244.75 BOTTOM OF STONE = 244.00 ESHWG = 241.30" WELL = 240.00" FRIMPITER = 1.30 | INV OUT = 246.16 (2-24" RCP - DMH-26) INV IN = 246.50 (18" HDPE - SWM-2) INV IN = 245.85 (30" RCP - DMH-4) |
| SWM-4 CULTEC R902HD 114.83' x 63.25' 408 TOTAL CHAMBERS (8 ROWS x 51 CHAMBERS) | TOP OF STONE = 248.75 TOP OF SYSTEM = 247.75 BOTTOM OF SYSTEM = 243.75 BOTTOM OF STONE = 243.00 ESHWG = 240.30" WELL = 239.00" FRIMPITER = 1.30 | INV OUT = 245.00 (30" RCP - DMH-28) INV IN = 245.00 (30" RCP - DMH-31) INV IN = 246.50 (12" HDPE HEADER - ICS-1) |
| SWM-6 CULTEC R360HD 114.83' x 22.50' 87 TOTAL CHAMBERS (3 ROWS x 29 CHAMBERS) | TOP OF STONE = 259.50 TOP OF SYSTEM = 259.00 BOTTOM OF SYSTEM = 256.00 BOTTOM OF STONE = 255.50 ESHWG = 253.30" WELL = 252.00" FRIMPITER = 1.30 | INV OUT = 257.10 (4 - 12" HDPE - DMH-25) INV IN = 256.25 (30" RCP - DMH-19) |

* ESHWG DATA INTERPRETED FROM EXISTING MONITOR WELL READINGS TAKEN ON MARCH 26, 2023 BY MCARDLE GANNON ASSOCIATES WITH A 1.5 FT FRIMPITER ADJUSTMENT APPLIED TO THE WELL READINGS.



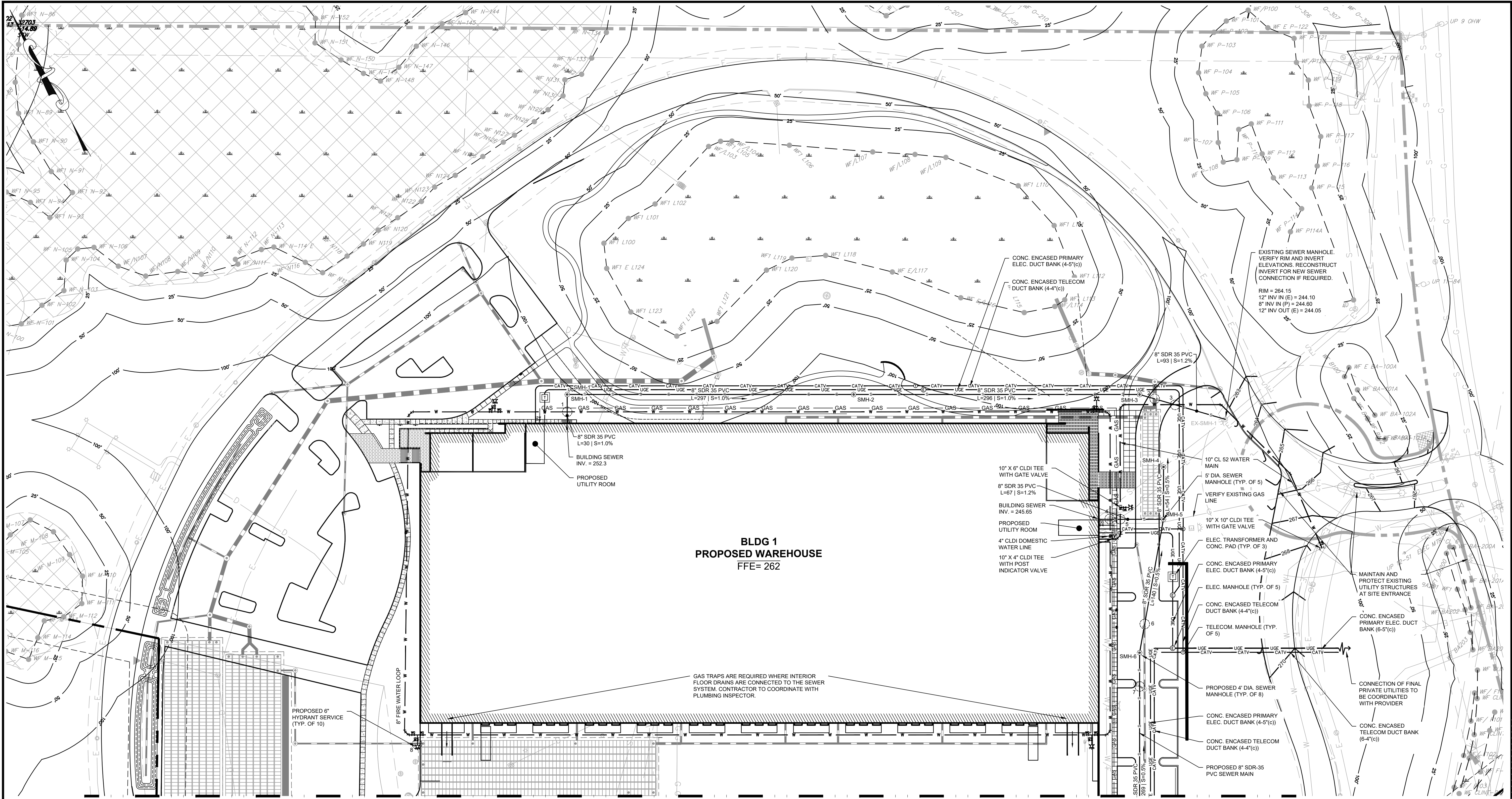
| REV | DATE | DESCRIPTION |
|-----|------------|----------------------|
| 4 | 10.05.2023 | RESPONSE TO COMMENTS |
| 3 | 08.15.2023 | RESPONSE TO COMMENTS |
| 2 | 08.14.2023 | RESPONSE TO COMMENTS |
| 1 | 07.17.2023 | RESPONSE TO COMMENTS |

ISSUE TYPE:
PERMIT SET
ISSUE DATE:
05/11/2023
PROJECT NUMBER:
22051
DRAWN BY: JJP/JMP
CHECKED BY: DJH
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SHEET TITLE:
GRADING & DRAINAGE PLAN
SHEET NUMBER:
C401
ISSUED FOR: PERMIT

WAREHOUSE/INDUSTRIAL DEVELOPMENT

100/200 FINANCIAL PARK
 FRANKLIN, MA

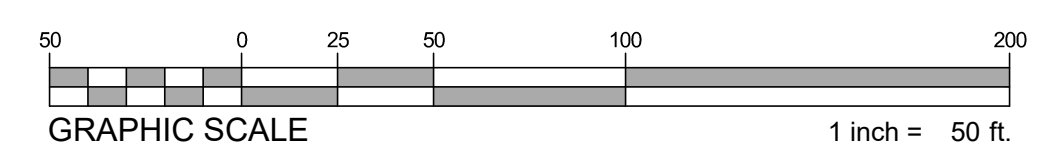
OWNER/APPLICANT: BERKELEY PARTNERS



| SEWER SCHEDULE | |
|----------------|--|
| STRUCTURE | ELEV. |
| SMH-1 | RIM = 255.43 INV IN = 251.97 (BUILDING 1 WEST) INV OUT = 251.87 (SMH-2) |
| SMH-2 | RIM = 262.38 INV IN = 248.90 (SMH-1) INV OUT = 248.80 (SMH-3) |
| SMH-3 | RIM = 262.01 INV IN = 245.84 (SMH-2) INV OUT = 245.74 (EX-SMH-1) |
| SMH-4 | RIM = 261.99 INV IN = 244.48 (SMH-5) INV OUT = 244.38 (EX-SMH-1) |
| SMH-5 | RIM = 262.00 INV IN = 244.85 (SMH-6) INV IN = 244.85 (BUILDING 1 EAST) INV OUT = 244.75 (SMH-4) |
| SMH-6 | RIM = 260.06 INV IN = 245.61 (SMH-7) INV OUT = 245.51 (SMH-5) |

| SANITARY/WATER AND SANITARY/ STORMWATER CROSSINGS | |
|---|---|
| 1 | FG = 257.5± INVERT OF WATER PIPE = 254.3± TOP OF SANITARY SEWER = 252.82± CLEARANCE = 1.5± |
| 2 | FG = 261.9± INVERT OF STORMWATER PIPE = 256.54± TOP OF SANITARY SEWER = 246.21± CLEARANCE = 10.33± |
| 3 | FG = 262.4± INVERT OF WATER PIPE = 256.3± TOP OF SANITARY SEWER = 245.94± CLEARANCE = 10.4± |
| 4 | FG = 262.0± INVERT OF WATER PIPE = 256.3± TOP OF SANITARY SEWER = 246.18± CLEARANCE = 10.2± |
| 5 | FG = 261.9± INVERT OF WATER PIPE = 256.3± TOP OF SANITARY SEWER = 246.05± CLEARANCE = 10.3± |
| 6 | FG = 260.9± INVERT OF STORMWATER PIPE = 255.30± TOP OF SANITARY SEWER = 246.04± CLEARANCE = 9.26± |
| 7 | FG = 261.1± INVERT OF STORMWATER PIPE = 255.35± TOP OF SANITARY SEWER = 246.45± CLEARANCE = 8.90± |
| 8 | FG = 258.5± INVERT OF WATER PIPE = 254.5± TOP OF STORMWATER PIPE = 253.41± CLEARANCE = 1.1± |

| SITE UTILITY LEGEND | |
|---------------------|---|
| | PROPOSED WATER SERVICE OR MAIN |
| | PROPOSED SEWER SERVICE OR MAIN |
| | PROPOSED CONC. ENCASED ELECTRIC DUCT BANK |
| | PROPOSED CONC. ENCASED TELECOM DUCT BANK |
| | PROPOSED GAS SERVICE |
| | PROPOSED FIRE HYDRANT |
| | PROPOSED WATER GATE VALVE |
| | PROPOSED SEWER MANHOLE |
| | PROPOSED ELECTRIC TRANSFORMER |
| | PROPOSED ELECTRIC MANHOLE (6'x8') |
| | PROPOSED TELECOM MANHOLE |
| | PROPOSED GAS GATE VALVE |



| REV | DATE | DESCRIPTION |
|-----|------------|----------------------|
| 4 | 10.05.2023 | RESPONSE TO COMMENTS |
| 3 | 08.15.2023 | RESPONSE TO COMMENTS |
| 2 | 08.14.2023 | RESPONSE TO COMMENTS |
| 1 | 07.17.2023 | RESPONSE TO COMMENTS |

ISSUE TYPE:
 PERMIT SET
 ISSUE DATE:
 05/11/2023
 PROJECT NUMBER:
 22051

DRAWN BY: JJP/CCL
 CHECKED BY: DJH

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SHEET TITLE:
UTILITY PLAN

SHEET NUMBER:
C500

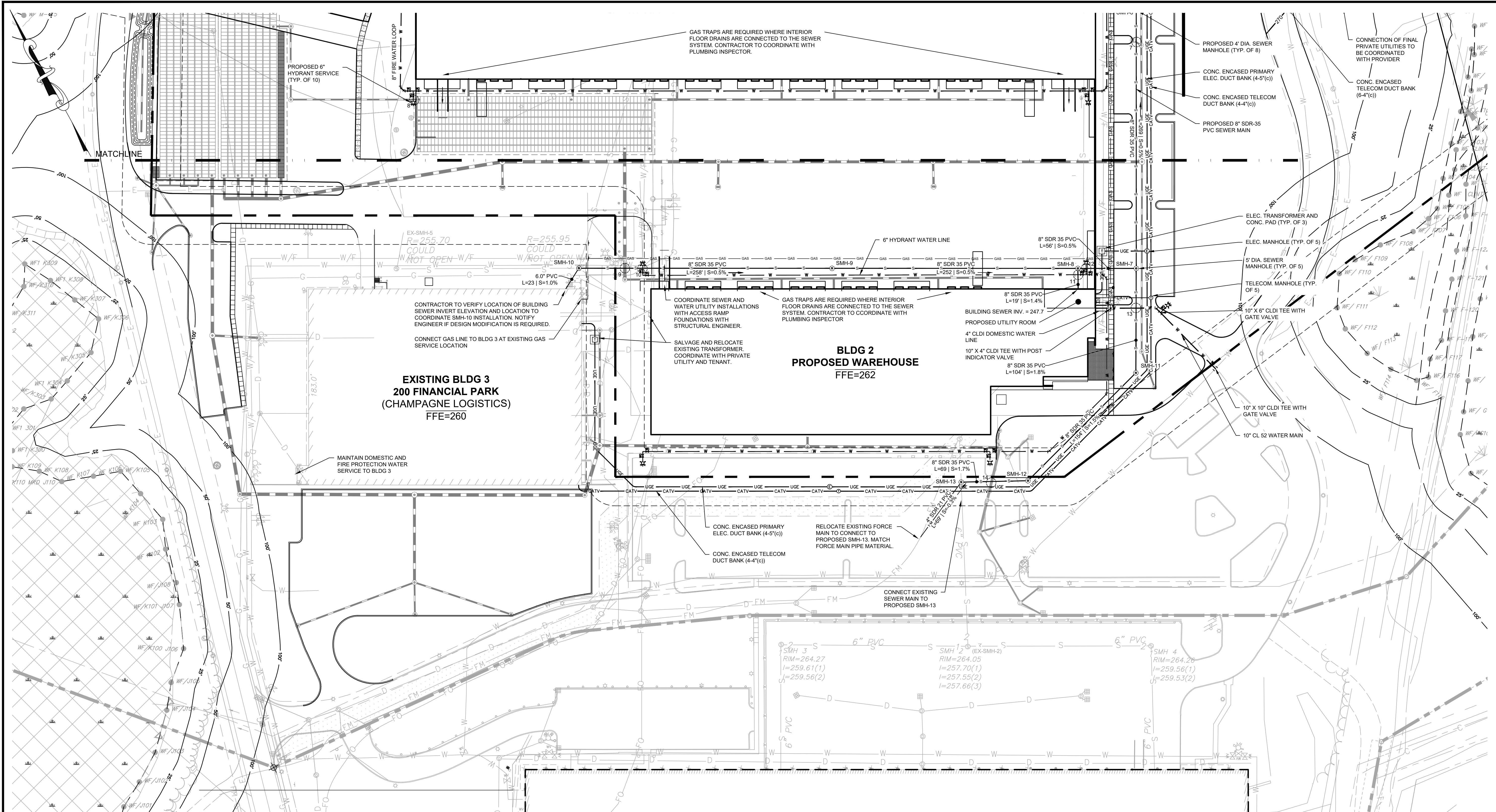
| REV | DATE | DESCRIPTION |
|-----|------------|----------------------|
| 4 | 10.05.2023 | RESPONSE TO COMMENTS |
| 3 | 08.15.2023 | RESPONSE TO COMMENTS |
| 2 | 08.14.2023 | RESPONSE TO COMMENTS |
| 1 | 07.17.2023 | RESPONSE TO COMMENTS |

ISSUE TYPE:
PERMIT SET
ISSUE DATE:
05/11/2023
PROJECT NUMBER:
22051
DRAWN BY: JJP/CCL
CHECKED BY: DJH
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UTILITY PLAN

SHEET NUMBER:
C501

ISSUED FOR: PERMIT

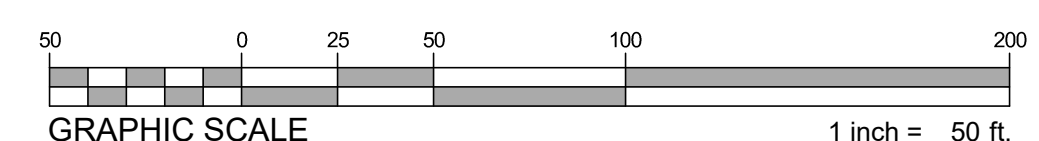


| SEWER SCHEDULE | |
|----------------|--|
| STRUCTURE | ELEV. |
| SMH-6 | RIM = 260.06 INV IN = 245.61 (SMH-7) INV OUT = 245.51 (SMH-5) |
| SMH-7 | RIM = 262.19 INV IN = 247.84 (SMH-11) INV IN = 247.01 (SMH-8) INV OUT = 246.91 (SMH-6) |
| SMH-8 | RIM = 257.99 INV IN = 247.41 (BUILDING 2) INV IN = 247.38 (SMH-9) INV OUT = 247.28 (SMH-7) |
| SMH-9 | RIM = 257.53 INV IN = 248.84 (SMH-10) INV OUT = 248.54 (SMH-8) |
| SMH-10 | RIM = 256.10 INV IN = 249.93 (EX-SMH-5) INV IN = 250.07 (BUILDING 3) INV OUT = 249.83 (SMH-9) |

| SEWER SCHEDULE | |
|----------------|---|
| STRUCTURE | ELEV. |
| SMH-11 | RIM = 261.28 INV IN = 250.70 (SMH-12) INV OUT = 249.80 (SMH-7) |
| SMH-12 | RIM = 261.97 INV IN = 253.80 (SMH-13) INV IN = 253.00 (SMH-11) |
| SMH-13 | RIM = 261.99 INV IN = 255.10 (EX. FORCE MAIN) INV IN = 255.90 (EX-SMH-2) INV OUT = 255.00 (SMH-12) |

| SANITARY/WATER AND SANITARY/ STORMWATER CROSSINGS | |
|---|--|
| 7 | FG = 261.1± INVERT OF STORMWATER PIPE = 255.35± TOP OF SANITARY SEWER = 246.45± CLEARANCE = 8.90± |
| 8 | FG = 258.5± INVERT OF WATER PIPE = 254.5± TOP OF STORMWATER PIPE = 253.41± CLEARANCE = 1.1± |
| 9 | FG = 257.3± INVERT OF STORMWATER PIPE = 251.95± TOP OF SANITARY SEWER = 250.28± CLEARANCE = 1.07± |
| 10 | FG = 257.5± INVERT OF WATER PIPE = 251.9± TOP OF SANITARY SEWER = 250.19± CLEARANCE = 1.7± |
| 11 | FG = 257.8± INVERT OF WATER PIPE = 252.2± TOP OF SANITARY SEWER = 248.15± CLEARANCE = 4.1± |
| 12 | FG = 257.7± INVERT OF WATER PIPE = 252.1± TOP OF SANITARY SEWER = 247.91± CLEARANCE = 4.2± |
| 13 | FG = 261.4± INVERT OF WATER PIPE = 255.8± TOP OF SANITARY SEWER = 249.3± CLEARANCE = 6.5± |
| 14 | FG = 259.0± INVERT OF SANITARY SEWER = 254.46± TOP OF STORMWATER PIPE = 253.64± CLEARANCE = 0.82± |

| SITE UTILITY LEGEND | |
|---------------------|---|
| — W — | PROPOSED WATER SERVICE OR MAIN |
| — FM — | PROPOSED FORCE MAIN |
| — S — | PROPOSED SEWER SERVICE OR MAIN |
| — UGE — | PROPOSED CONC. ENCASED ELECTRIC DUCT BANK |
| — CATV — | PROPOSED CONC. ENCASED TELECOM DUCT BANK |
| — GAS — | PROPOSED GAS SERVICE |
| ⊙ | PROPOSED FIRE HYDRANT |
| ⊙ | PROPOSED WATER GATE VALVE |
| ⊙ | PROPOSED SEWER MANHOLE |
| T | PROPOSED ELECTRIC TRANSFORMER |
| ⊙ | PROPOSED ELECTRIC MANHOLE (6'X8') |
| ⊙ | PROPOSED TELECOM MANHOLE |
| ⊙ | PROPOSED GAS GATE VALVE |



| REV | DATE | DESCRIPTION |
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ISSUE TYPE:
 PERMIT SET
 ISSUE DATE:
 05/11/2023
 PROJECT NUMBER:
 22051

DRAWN BY: JMP
 CHECKED BY: DH

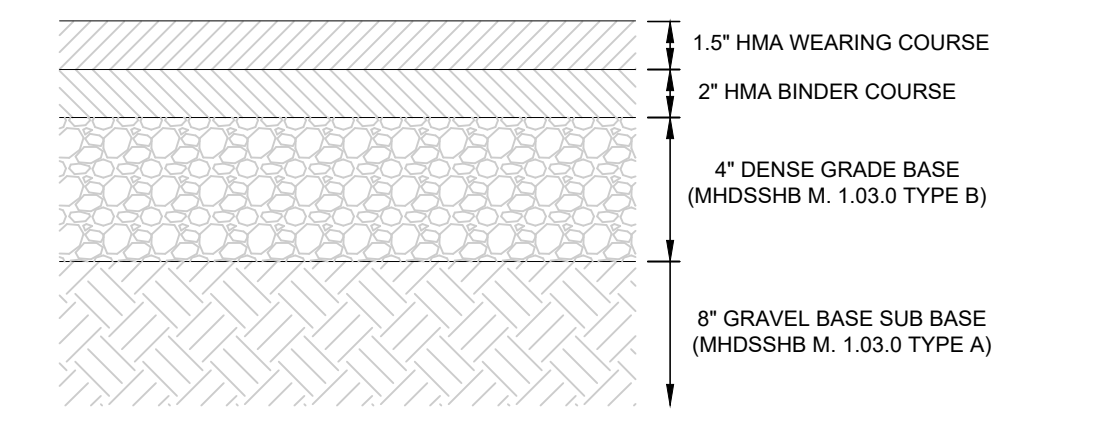
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SHEET TITLE:

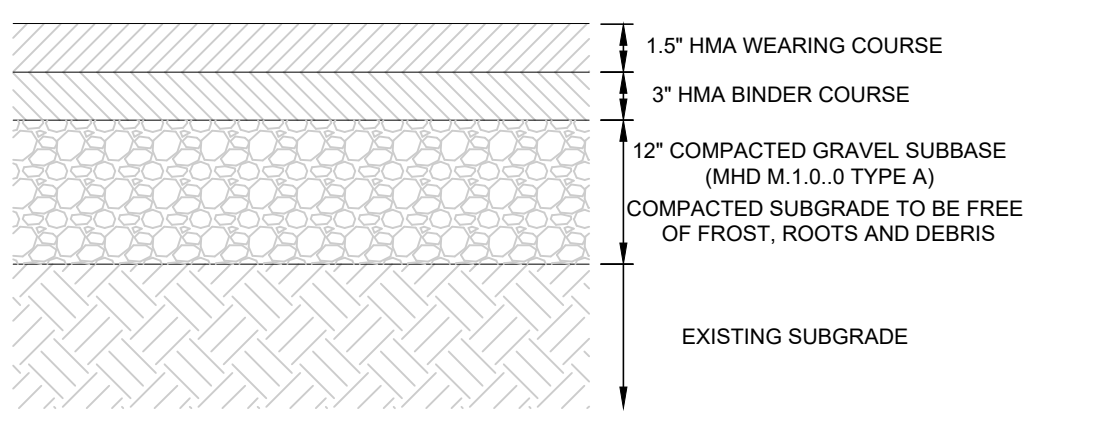
DETAIL SHEET

SHEET NUMBER:
C600

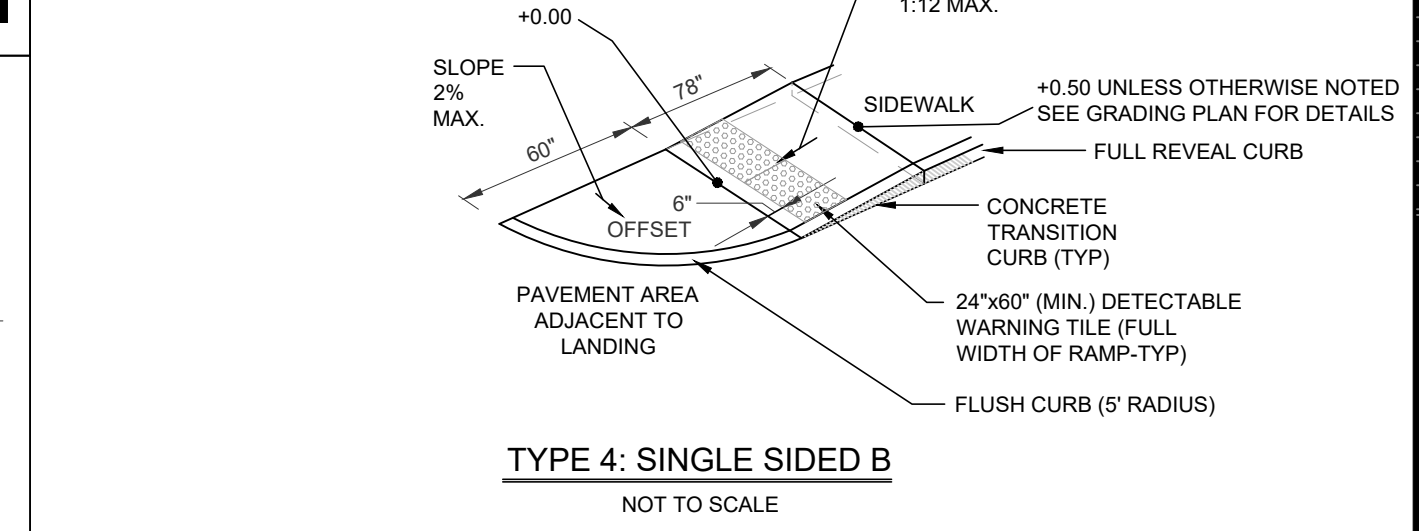
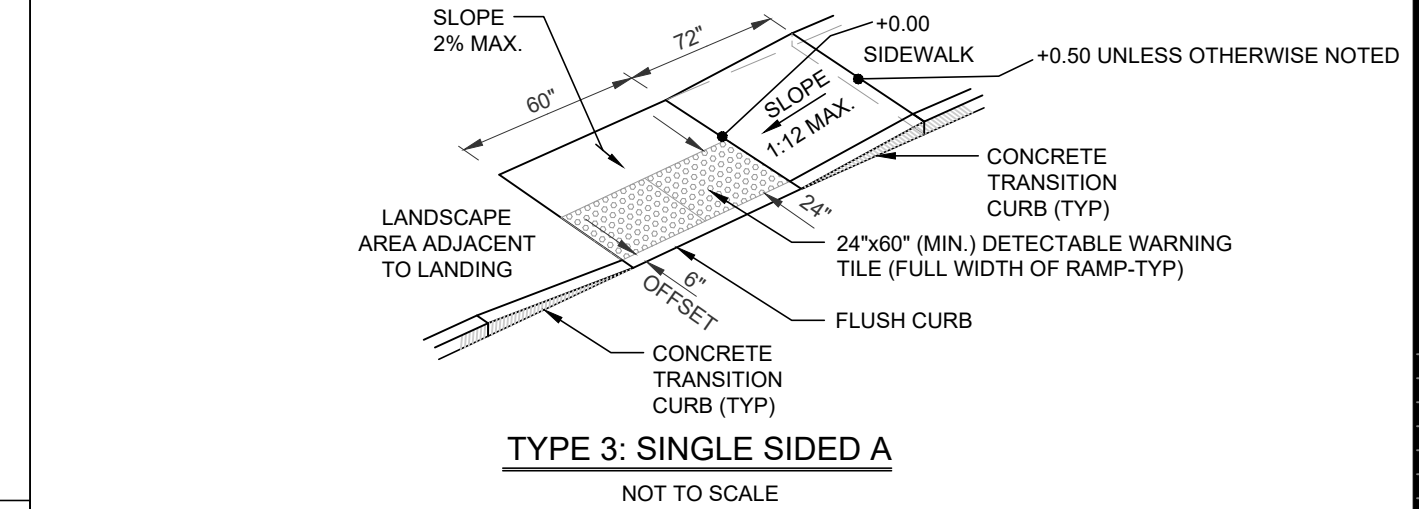
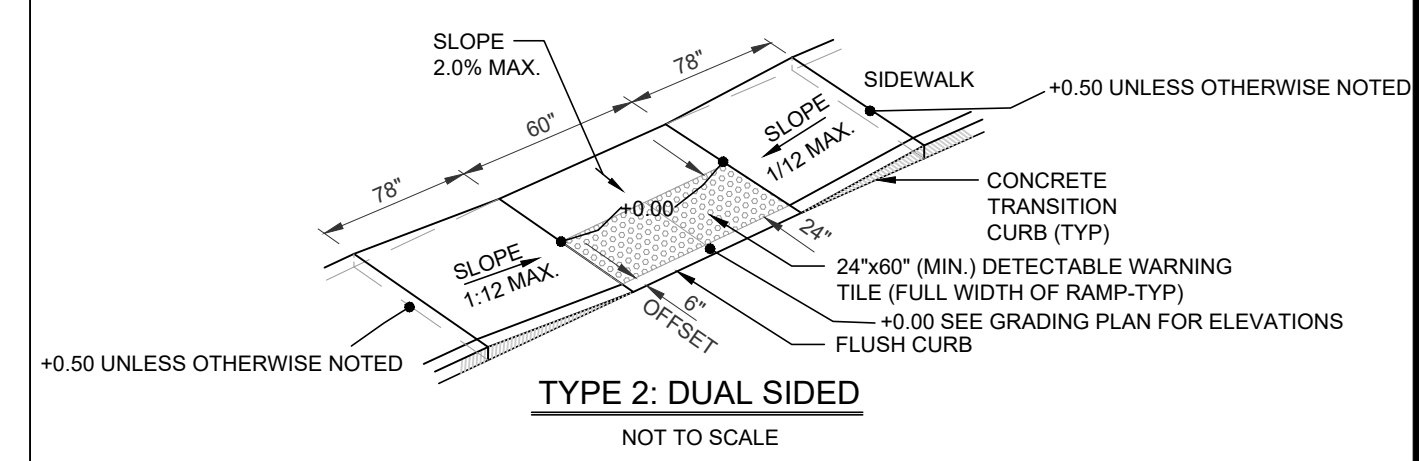
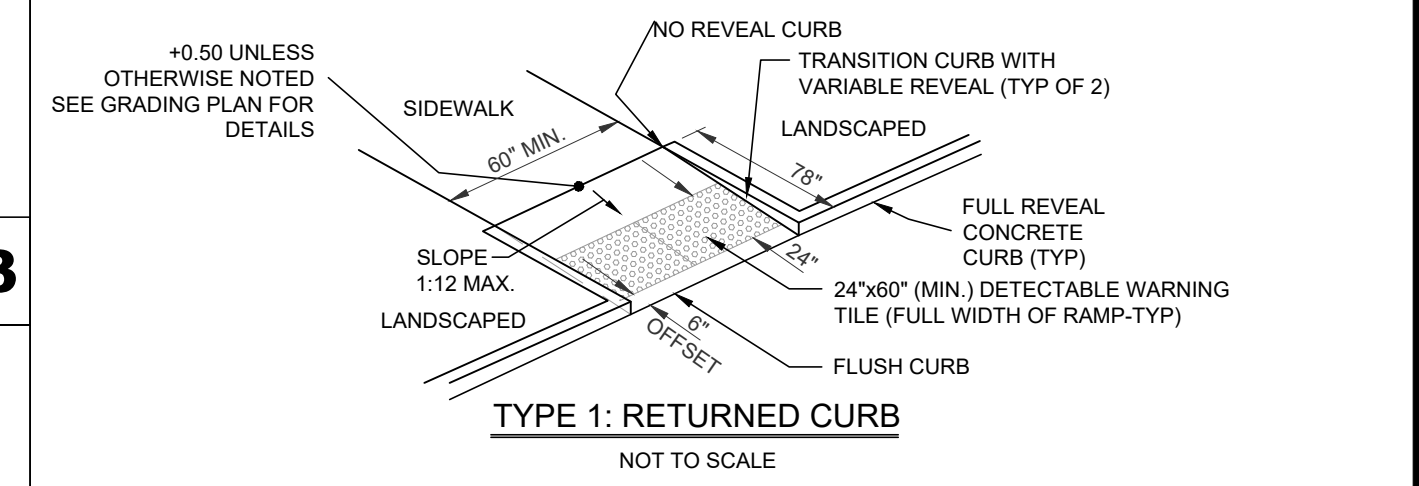
ISSUED FOR: PERMIT



BITUMINOUS CONCRETE PAVEMENT
 NOT TO SCALE **C2**

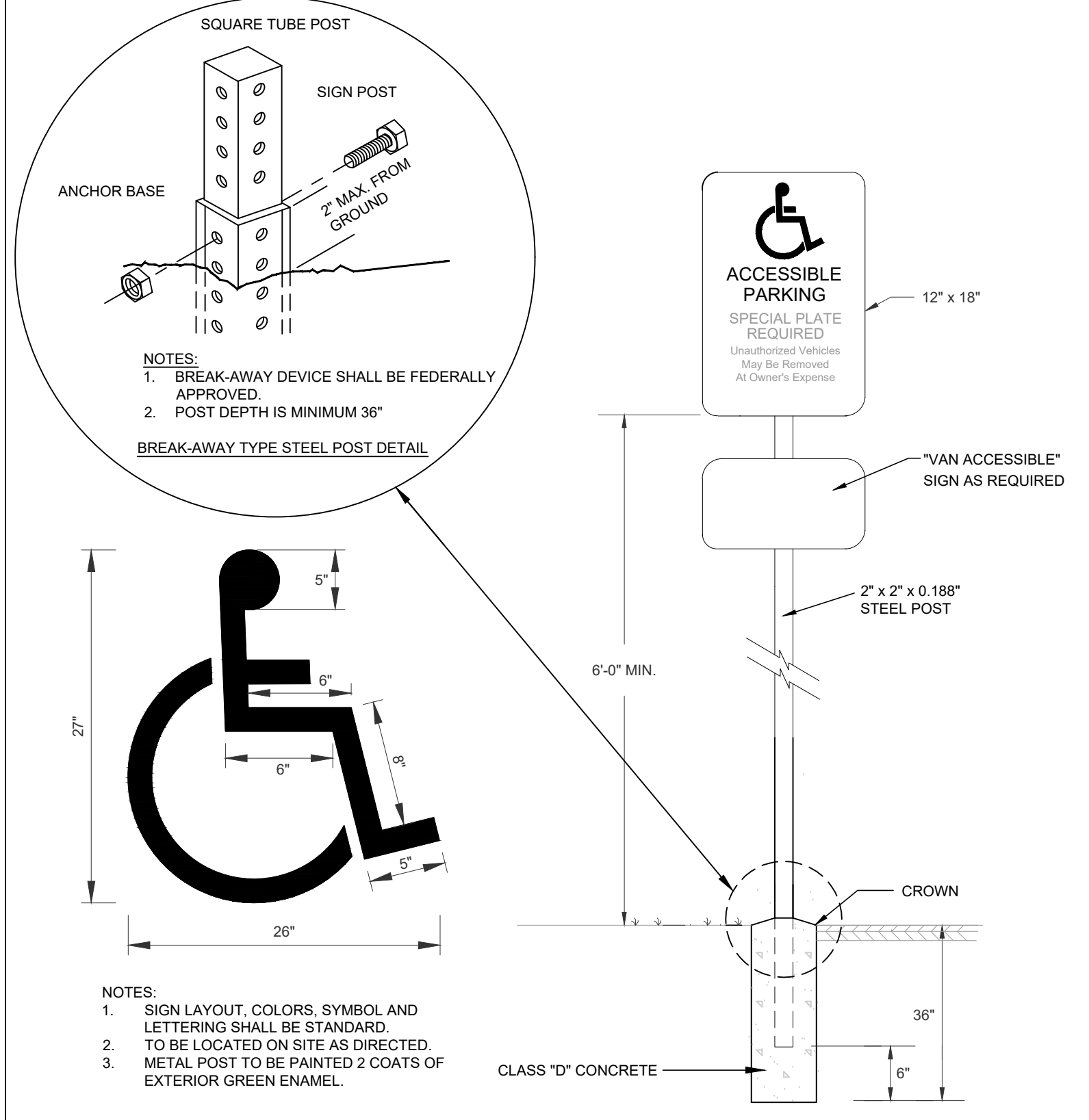


HEAVY DUTY BITUMINOUS CONCRETE PAVEMENT
 NOT TO SCALE **C1**

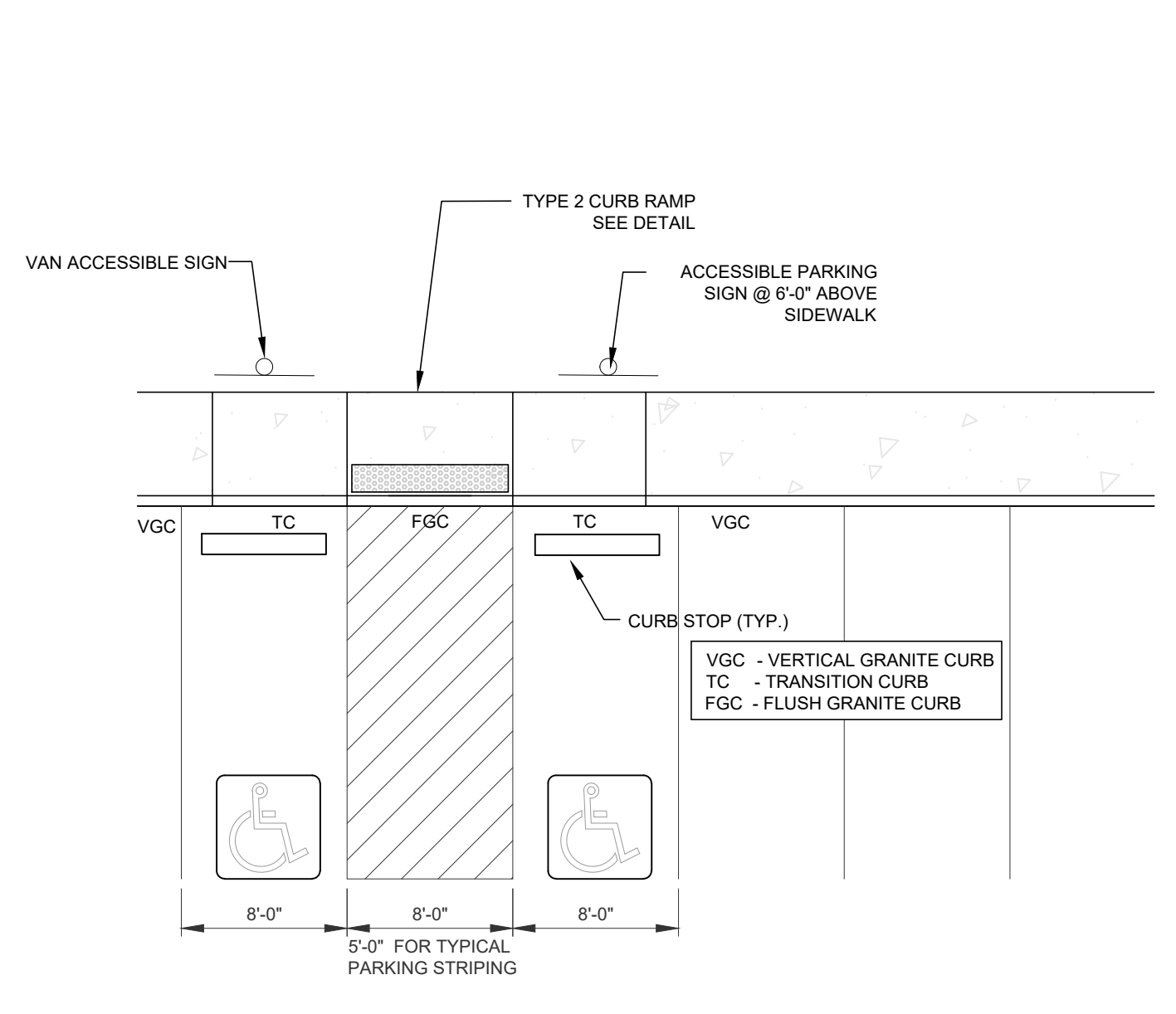


- IN NO INSTANCE SHALL THE SIDEWALK CROSS SLOPE EXCEED 2.0% EXCEPT THE RAMP AREA PROPER WHICH IS EXEMPT.
- AN UNOBSTRUCTED PATH OF TRAVEL WITH A MINIMUM WIDTH OF 36" SHALL BE MAINTAINED.
- THE WHEELCHAIR RAMP SLOPE AND SIDE OF SLOPES (TRANSITIONS), MUST NOT EXCEED 8.33%.
- ALL REQUIREMENTS OF THE MASSACHUSETTS ARCHITECTURAL ACCESS BOARD (MAAB) AND THE AMERICANS WITH DISABILITIES ACT (ADA) SHALL GOVERN OVER THESE REGULATIONS.
- THE ENTRANCE OF THE WHEELCHAIR RAMP SHALL BE FLUSH WITH ROADWAY.
- 24"x60" DETECTABLE WARNING TILE SHALL BE BRICK RED, EMBEDMENT PANEL, SOUND ATTENUATING CURB RAMP TILE BY ADS SOLUTIONS, INC., PART NO. 2460DPV2 OR APPROVED EQUAL.
- DETECTABLE WARNING TILE SHALL HAVE DOME SPACING OF 2.35 INCHES.
- DETECTABLE WARNING TILE SHALL BE INSTALLED PER MANUFACTURER'S SPECIFICATIONS AND INSTALLATION INSTRUCTIONS. (PER MASSDOT E107.65)
- ALL CURB RAMPS TO RISE 6" FROM BASE TO TOP UNLESS OTHERWISE NOTED. SEE GRADING PLAN FOR ELEVATIONS.

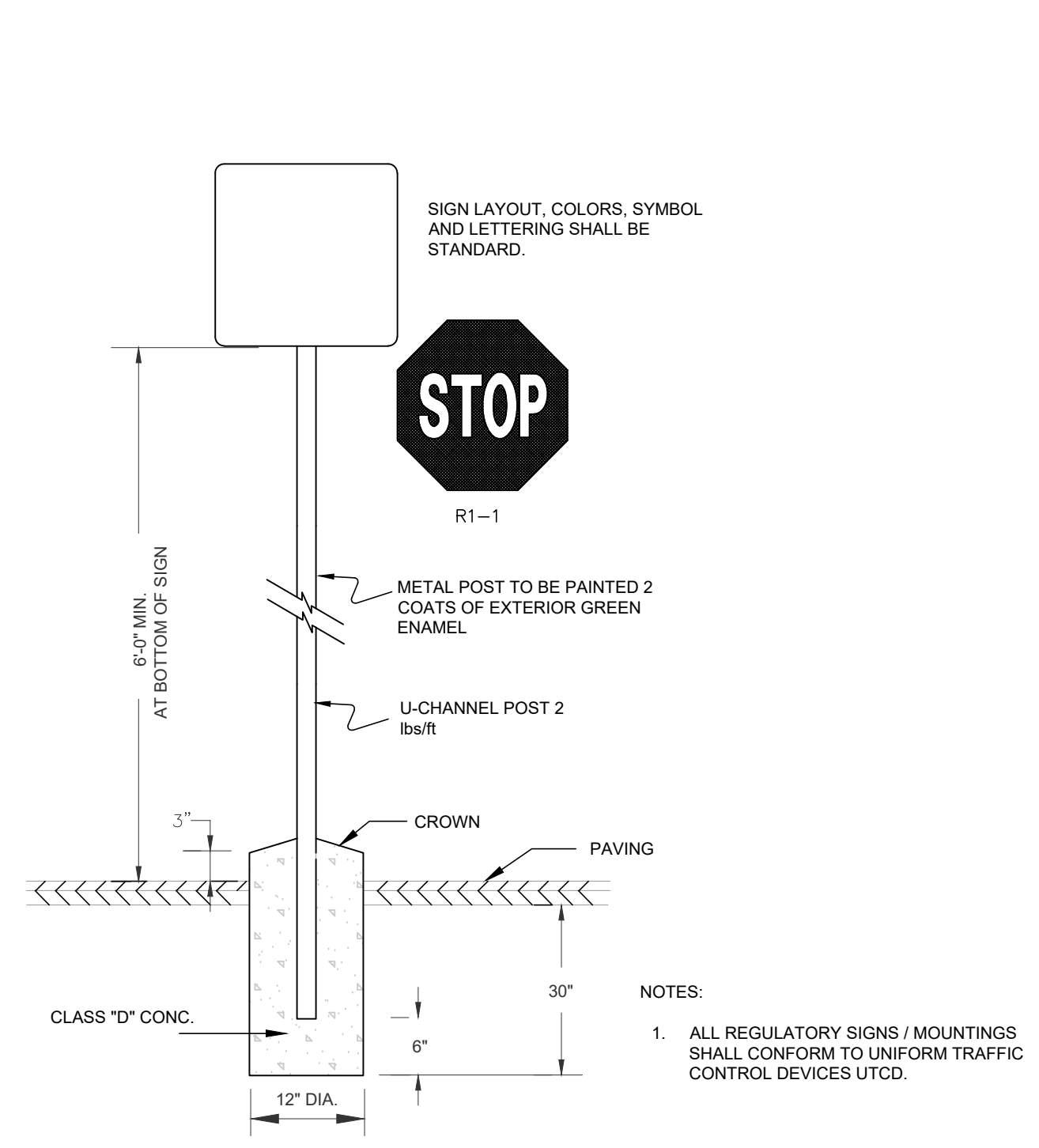
CURB RAMPS
 NOT TO SCALE **A1**



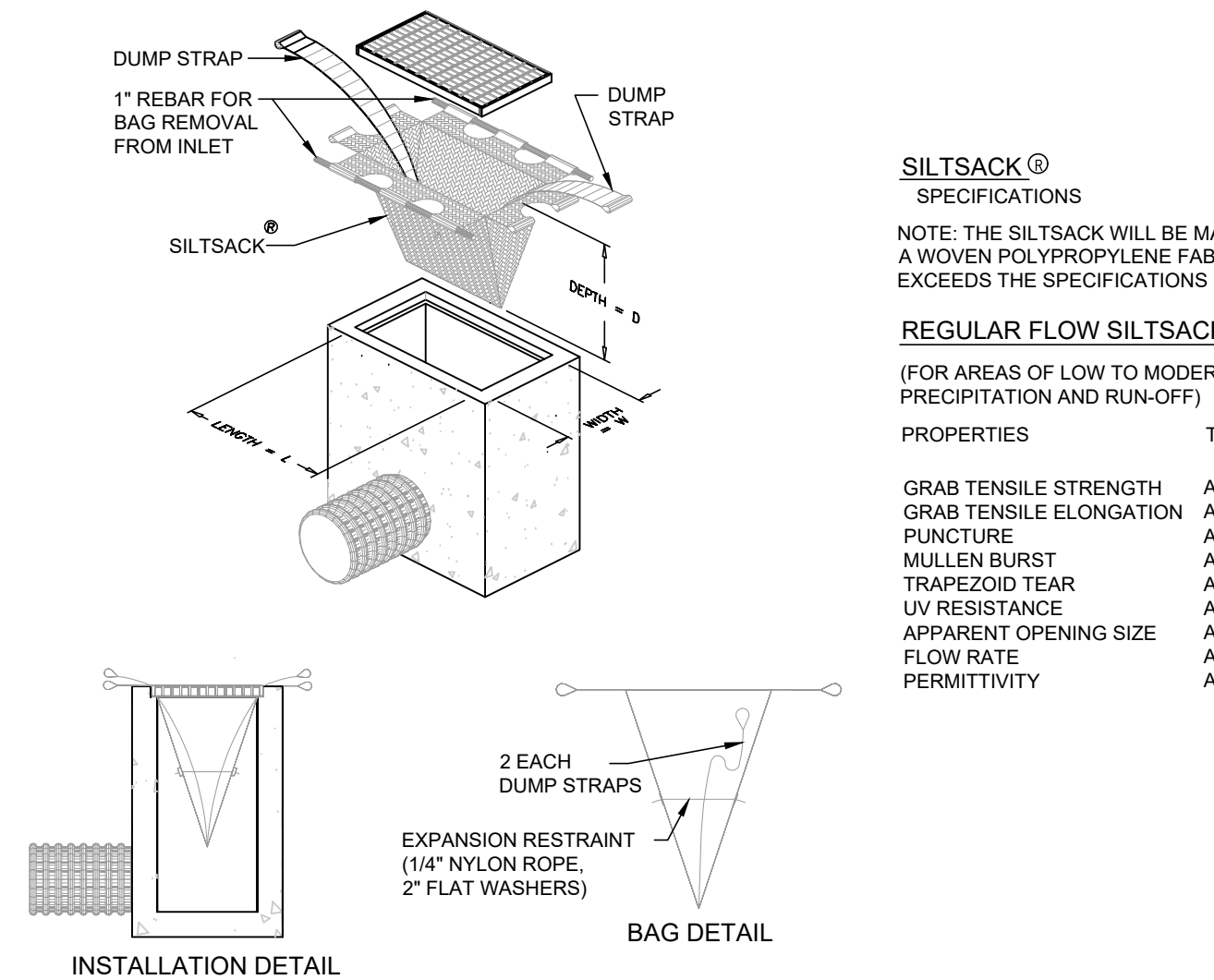
ACCESSIBLE PARKING SIGN AND PAVEMENT MARKING
 NOT TO SCALE **C3**



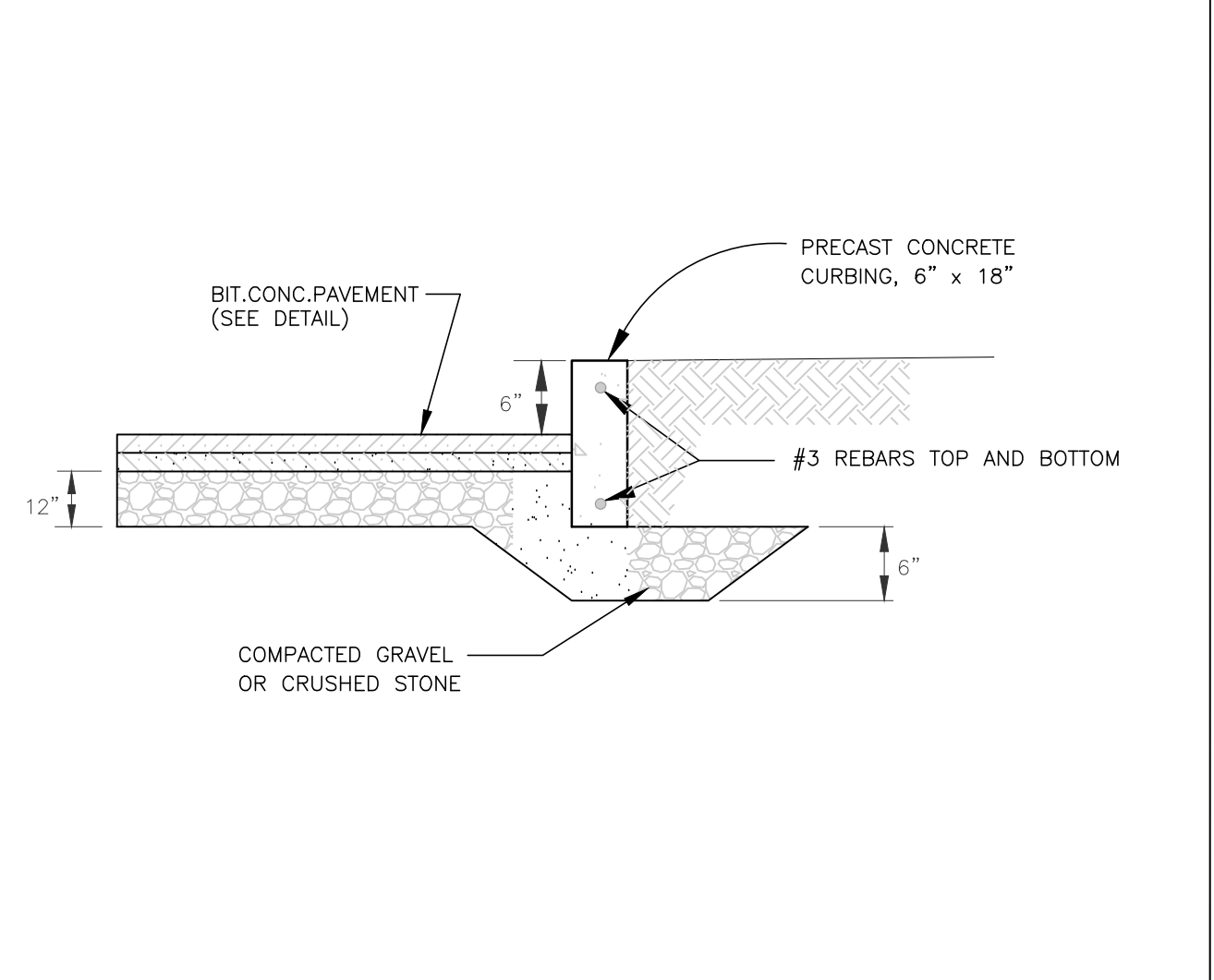
TYPICAL ACCESSIBLE VAN PARKING STRIPING
 NOT TO SCALE **C4**



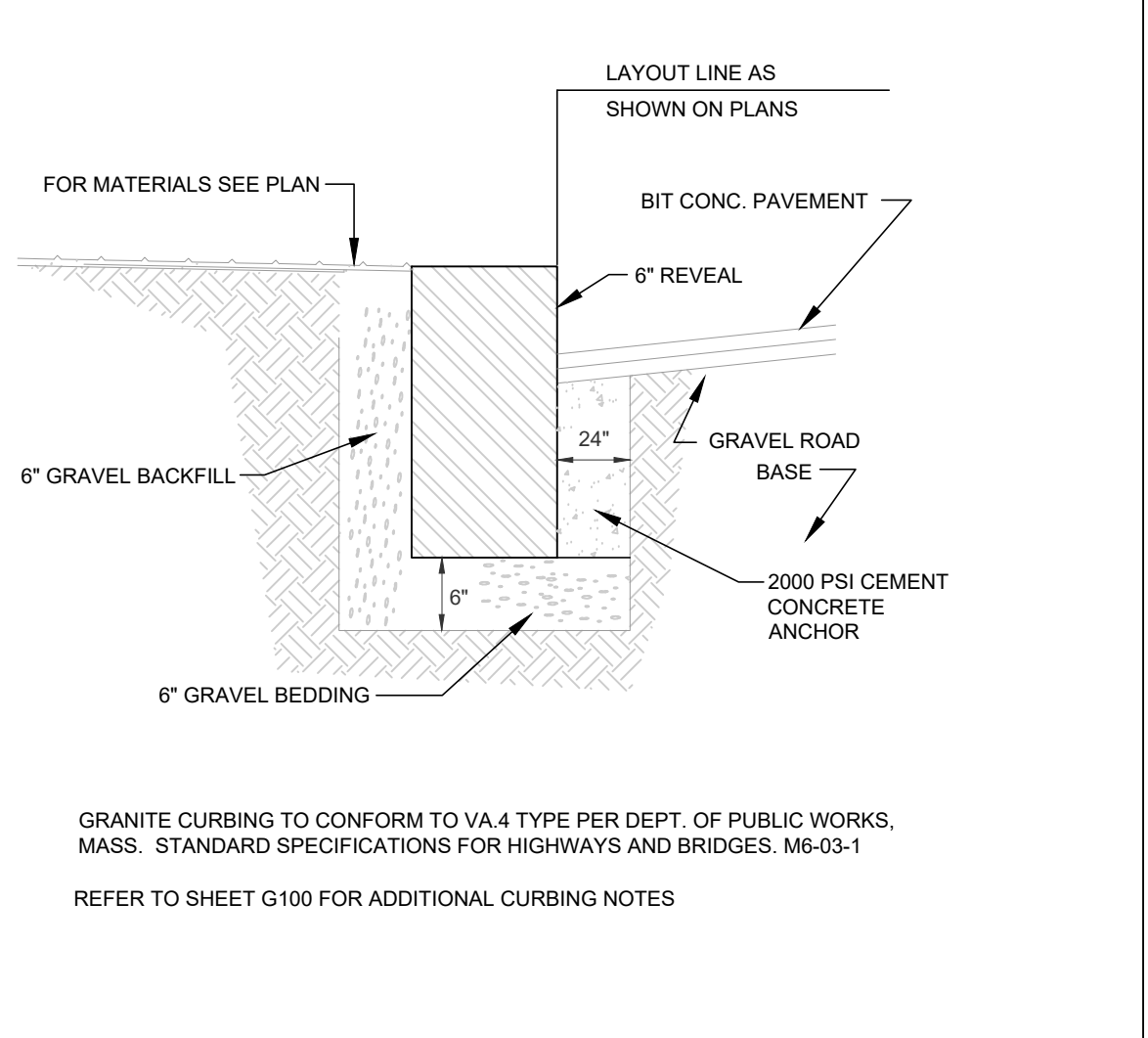
TYPICAL SIGN DETAIL
 NOT TO SCALE **C5**



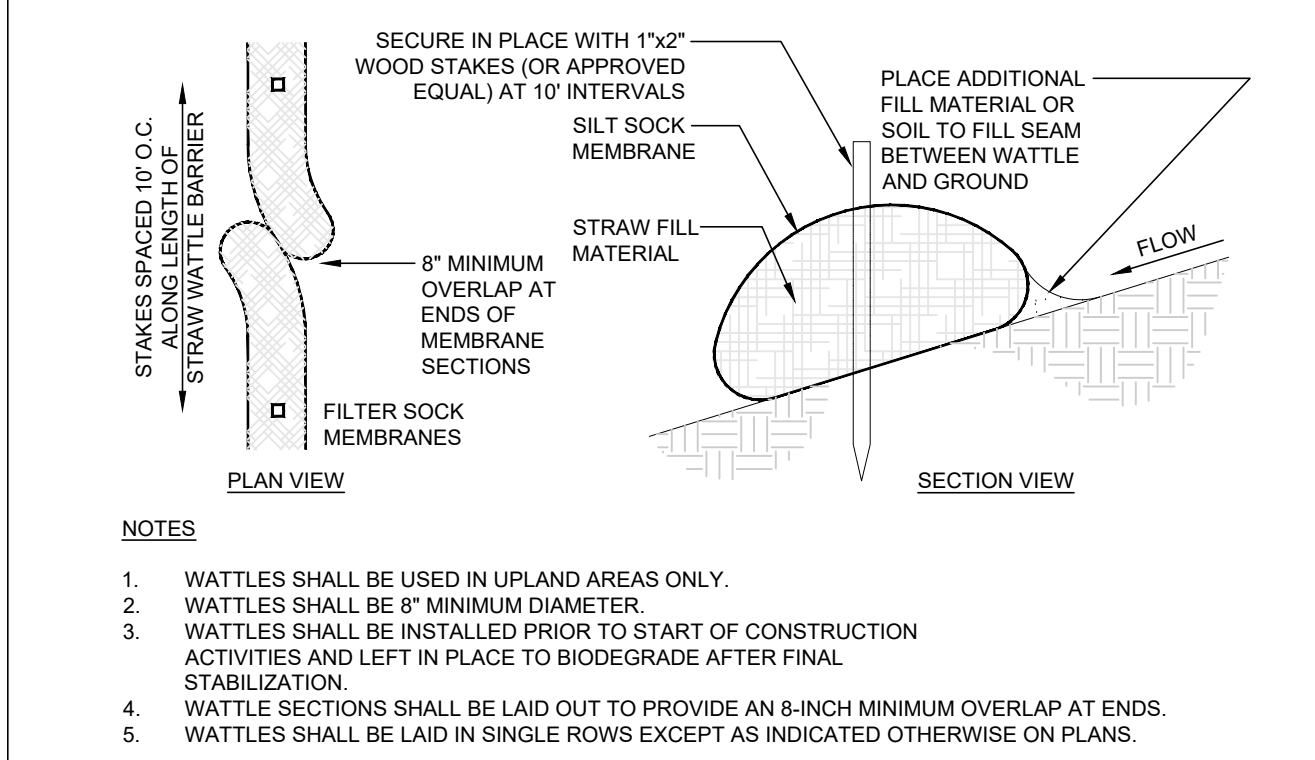
SILTSACK INLET PROTECTION DEVICE
 NOT TO SCALE **B3**



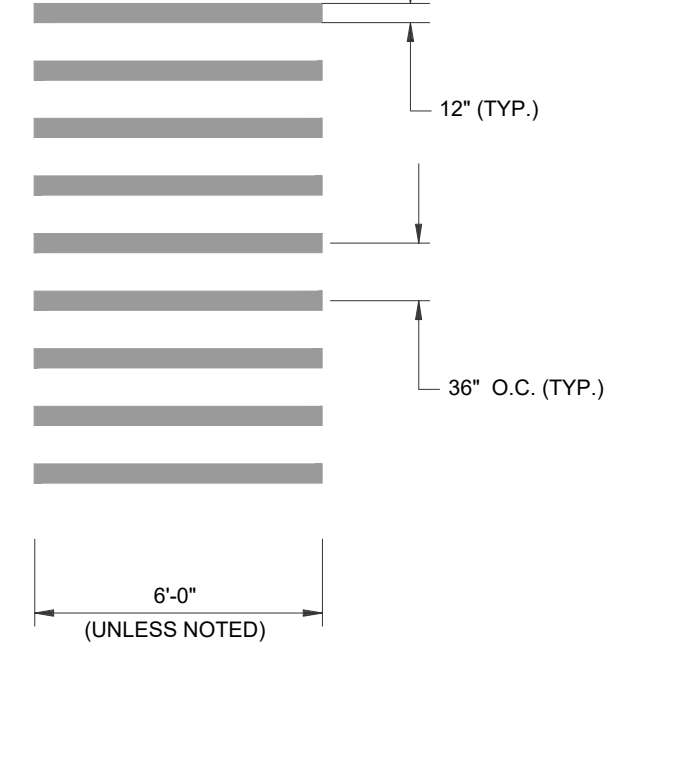
PRECAST CONCRETE CURB
 NOT TO SCALE **B2**



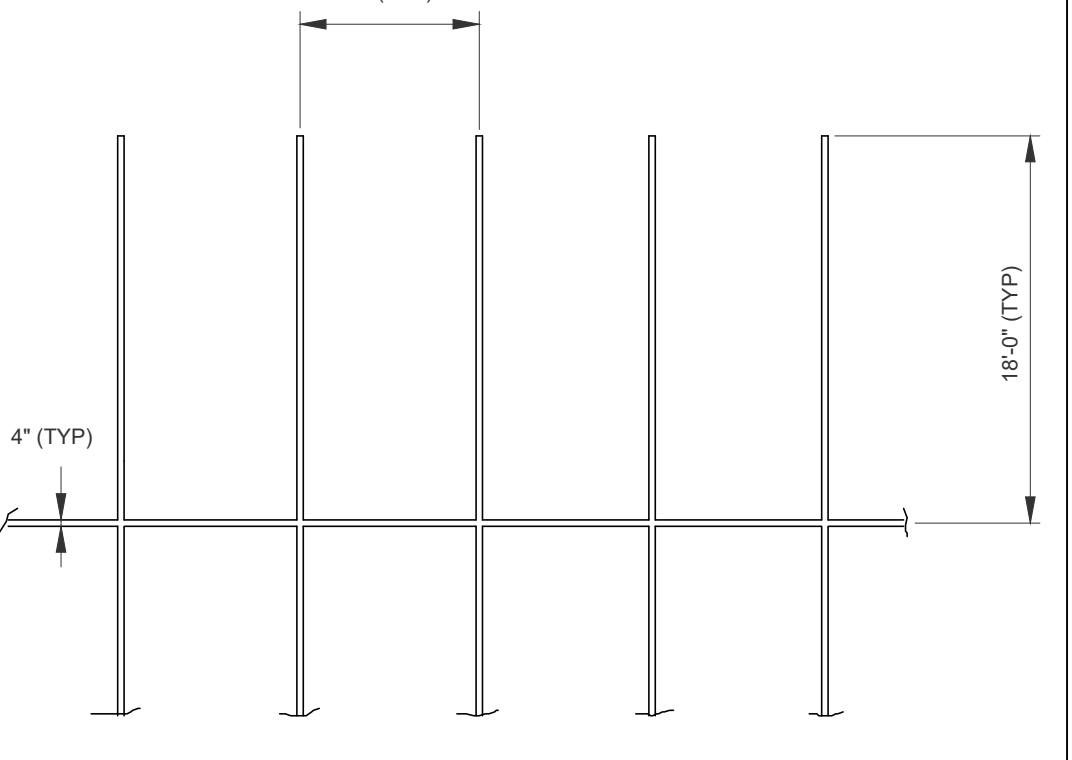
VERTICAL GRANITE CURB
 NOT TO SCALE **B1**



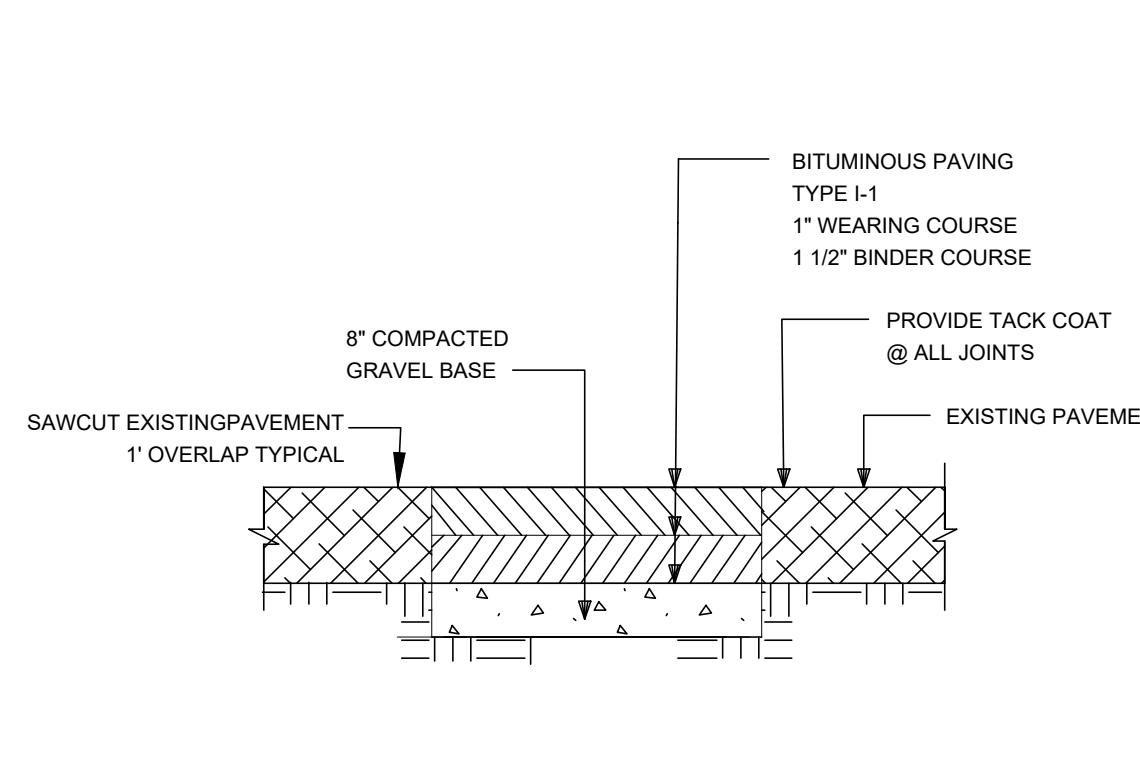
STRAW WATTLE EROSION CONTROL BARRIER
 NOT TO SCALE **A4**



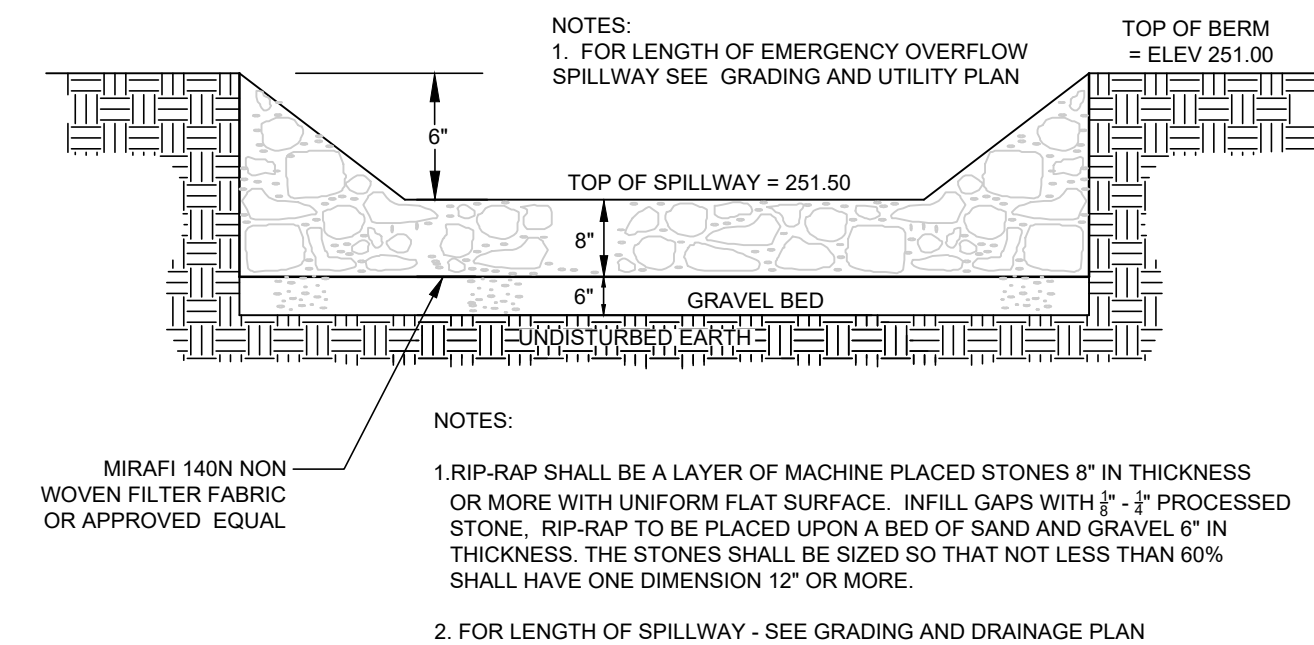
STRIPED PEDESTRIAN CROSSWALK
 NOT TO SCALE **A3**



TYPICAL PARKING SPACE STRIPING
 NOT TO SCALE **A2**



PAVEMENT MATCH SAWCUT
 NOT TO SCALE **A5**



SPILLWAY BETWEEN FOREBAY AND RAINGARDEN
 NOT TO SCALE **C3**

BACKFILL MATERIAL SHALL BE WELL GRADED WITHIN THE SPECIFIED LIMITS. GRADATION OF MATERIALS SHALL BE DETERMINED IN ACCORDANCE WITH ASTM C 136.

GRANULAR FILL (FOR OVER-EXCAVATION) SHALL BE SAND-GRAVEL MIXTURE, GRADED WITHIN THE FOLLOWING LIMITS:

| SIEVE SIZE | % PASSING BY WEIGHT |
|------------|---------------------|
| 1-1/2 IN. | 100 |
| NO. 4 | 20-60 |
| NO. 10 | 10-35 |
| NO. 200 | 0-8 |

GRAVEL BEDDING (FOR UTILITIES) SHALL BE GRAVEL, CRUSHED QUARRY ROCK OR CRUSHED GRAVEL, FROM OFF-SITE SOURCES GRADED WITHIN THE FOLLOWING LIMITS:

| SIEVE SIZE | % PASSING BY WEIGHT |
|------------|---------------------|
| 1 IN. | 100 |
| 3/4 IN. | 90-100 |
| 3/8 IN. | 20-55 |
| NO. 4 | 0-10 |
| NO. 8 | 0-5 |

STONE (FOR UTILITIES) SHALL BE A DURABLE, CRUSHED STONE OR GRAVEL FROM OFF-SITE SOURCES, GRADED WITHIN THE FOLLOWING LIMITS:

| SIEVE SIZE | % PASSING BY WEIGHT |
|------------|---------------------|
| 2-1/2 IN. | 100 |
| 2 IN. | 60-90 |
| 1-1/4 IN. | 25-50 |
| 3/4 IN. | 0 |

SELECT FILL SHALL BE A COARSE GRANULAR MATERIAL CONSISTING OF HARD, DURABLE, ANGULAR MATERIAL, GRADED WITHIN THE FOLLOWING LIMITS. MATERIAL PASSING THE NO. 40 SIEVE SHALL HAVE A PLASTICITY INDEX OF NOT MORE THAN 10 AND A LIQUID LIMIT NOT TO EXCEED 35%.

| SIEVE SIZE | % PASSING BY WEIGHT |
|------------|---------------------|
| 4 IN. | 100 |
| 1 IN. | 60-100 |
| NO. 4 | 30-80 |
| NO. 40 | 5-30 |
| NO. 200 | 0-8 |

COMMON FILL (IN LANDSCAPED AREAS) SHALL BE BANK RUN SAND, GRAVEL, OR MIXTURE THEREOF, GRADED WITHIN THE FOLLOWING LIMITS:

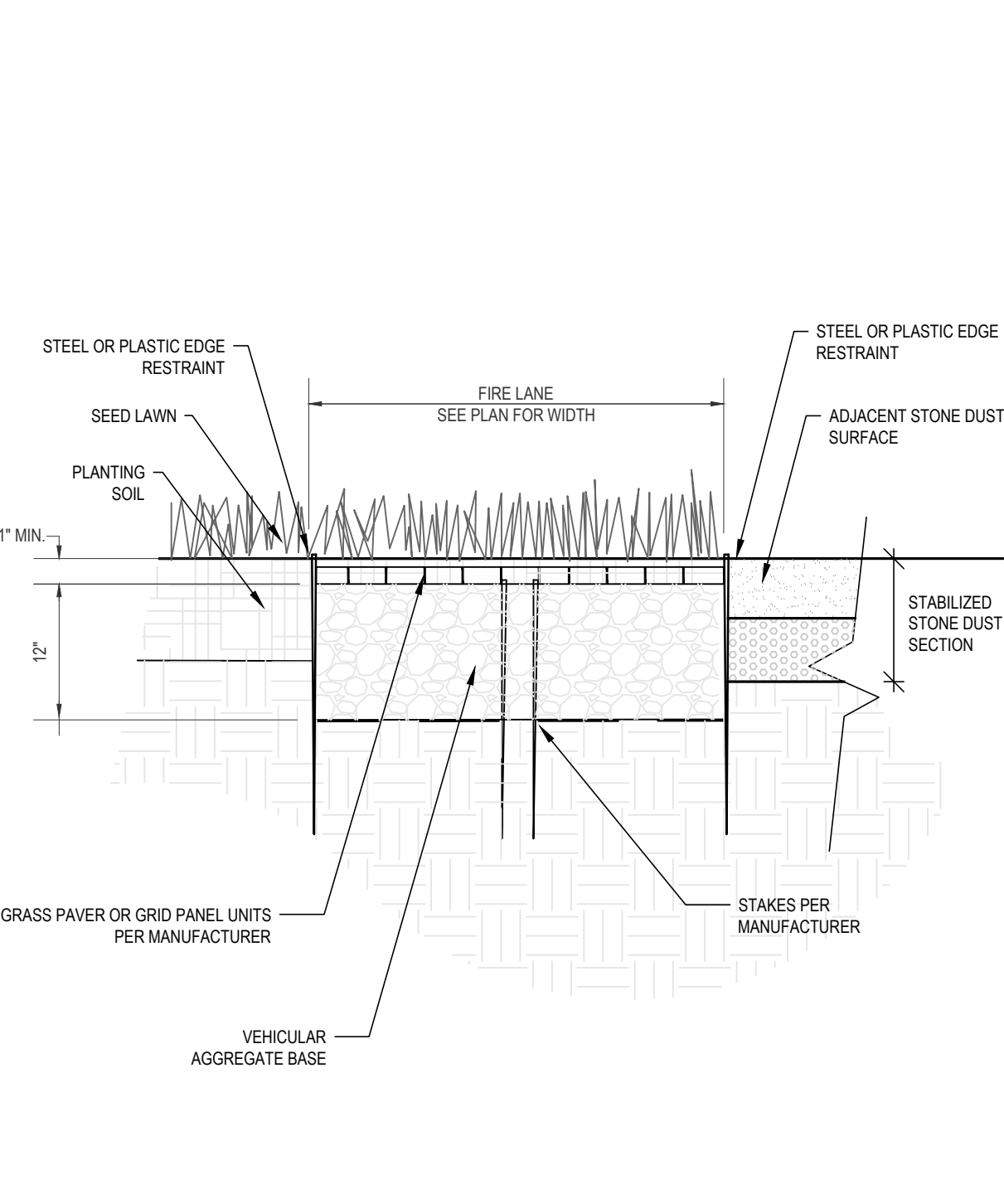
| SIEVE SIZE | % PASSING BY WEIGHT |
|------------|---------------------|
| 6 IN. | 100 |
| NO. 4 | 30-95 |
| NO. 200 | 0-15 |

DENSE GRADED CRUSHED STONE SHALL CONSIST OF CRUSHER-RUN COARSE AGGREGATES OF CRUSHED STONE OR GRAVEL AND FINE AGGREGATES OF NATURAL SAND OR STONE SCREENINGS, UNIFORMLY PRE-MIXED WITH A PREDETERMINED QUANTITY OF WATER. COARSE AGGREGATE SHALL HAVE A PERCENTAGE OF WEAR OF NOT MORE THAN 45 BY THE LOS ANGELES TEST.

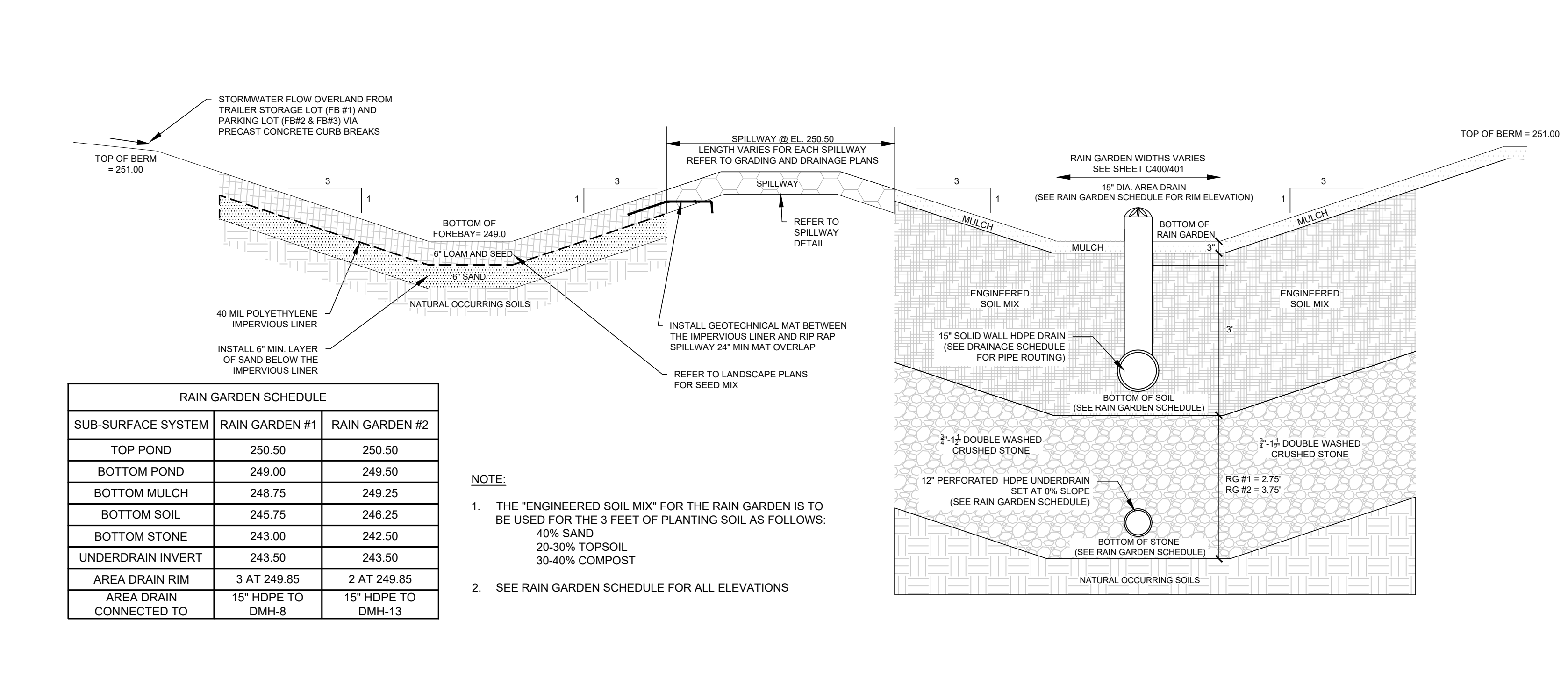
THE COMPOSITE MATERIAL SHALL BE FREE FROM CLAY, LOAM AND ALL OTHER PLASTIC MATERIALS, AND SHALL CONFORM TO THE FOLLOWING GRADATION REQUIREMENTS:

| SIEVE DESIGNATION | PERCENTAGE BY MASS PASSING SQUARE MESH SIEVES |
|-------------------|---|
| 2 inches | 100 |
| 1 1/2 inches | 70-100 |
| 3/4 inch | 50-85 |
| No. 4 | 30-55 |
| No. 50 | 8-24 |
| No. 200 | 3-10 |

SAMPLING AND TESTING SHALL BE IN ACCORDANCE WITH THE FOLLOWING STANDARD AASHTO METHODS:
 • SIEVE ANALYSIS: AASHTO T27
 • PASSING NO. 200 SIEVE: AASHTO T11



REINFORCED TURF FIRE LANE SURFACE
 NOT TO SCALE **C2**



RAIN GARDEN SECTION
 NOT TO SCALE **C1**

RAIN GARDEN SCHEDULE

| SUB-SURFACE SYSTEM | RAIN GARDEN #1 | RAIN GARDEN #2 |
|-------------------------|-------------------|--------------------|
| TOP POND | 250.50 | 250.50 |
| BOTTOM POND | 249.00 | 249.50 |
| BOTTOM MULCH | 248.75 | 249.25 |
| BOTTOM SOIL | 245.75 | 246.25 |
| BOTTOM STONE | 243.00 | 242.50 |
| UNDERDRAIN INVERT | 243.50 | 243.50 |
| AREA DRAIN RIM | 3 AT 249.85 | 2 AT 249.85 |
| AREA DRAIN CONNECTED TO | 15" HDPE TO DMH-8 | 15" HDPE TO DMH-13 |

NOTE:
 1. THE "ENGINEERED SOIL MIX" FOR THE RAIN GARDEN IS TO BE USED FOR THE 3 FEET OF PLANTING SOIL AS FOLLOWS:
 40% SAND
 20-30% TOPSOIL
 30-40% COMPOST

2. SEE RAIN GARDEN SCHEDULE FOR ALL ELEVATIONS

SELECT FILL SHALL BE A COARSE GRANULAR MATERIAL CONSISTING OF HARD, DURABLE, ANGULAR MATERIAL, GRADED WITHIN THE FOLLOWING LIMITS. MATERIAL PASSING THE NO. 40 SIEVE SHALL HAVE A PLASTICITY INDEX OF NOT MORE THAN 10 AND A LIQUID LIMIT NOT TO EXCEED 35%.

| SIEVE SIZE | % PASSING BY WEIGHT |
|------------|---------------------|
| 4 IN. | 100 |
| 1 IN. | 60-100 |
| NO. 4 | 30-80 |
| NO. 40 | 5-30 |
| NO. 200 | 0-8 |

COMMON FILL (IN LANDSCAPED AREAS) SHALL BE BANK RUN SAND, GRAVEL, OR MIXTURE THEREOF, GRADED WITHIN THE FOLLOWING LIMITS:

| SIEVE SIZE | % PASSING BY WEIGHT |
|------------|---------------------|
| 6 IN. | 100 |
| NO. 4 | 30-95 |
| NO. 200 | 0-15 |

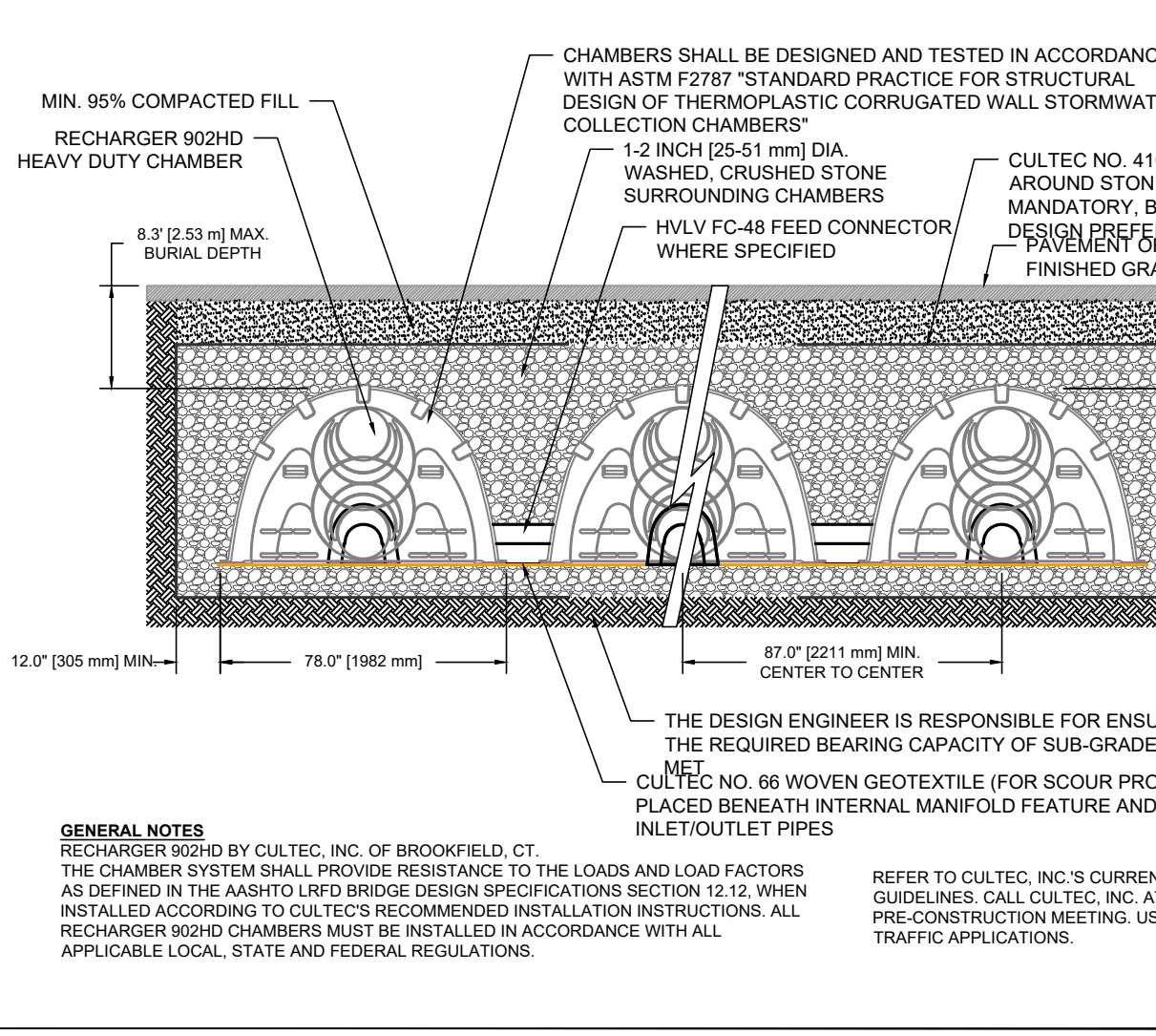
DENSE GRADED CRUSHED STONE SHALL CONSIST OF CRUSHER-RUN COARSE AGGREGATES OF CRUSHED STONE OR GRAVEL AND FINE AGGREGATES OF NATURAL SAND OR STONE SCREENINGS, UNIFORMLY PRE-MIXED WITH A PREDETERMINED QUANTITY OF WATER. COARSE AGGREGATE SHALL HAVE A PERCENTAGE OF WEAR OF NOT MORE THAN 45 BY THE LOS ANGELES TEST.

THE COMPOSITE MATERIAL SHALL BE FREE FROM CLAY, LOAM AND ALL OTHER PLASTIC MATERIALS, AND SHALL CONFORM TO THE FOLLOWING GRADATION REQUIREMENTS:

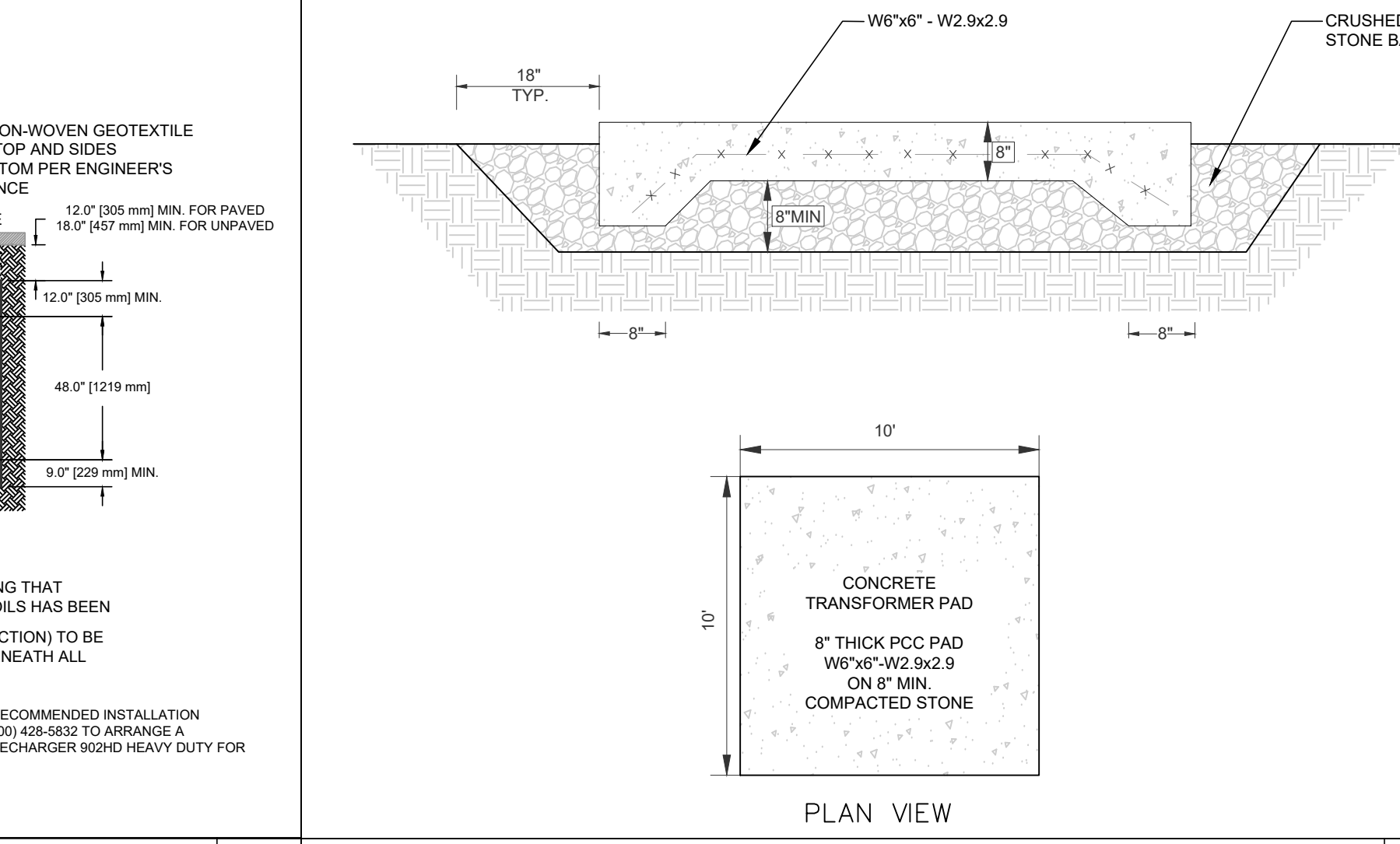
| SIEVE DESIGNATION | PERCENTAGE BY MASS PASSING SQUARE MESH SIEVES |
|-------------------|---|
| 2 inches | 100 |
| 1 1/2 inches | 70-100 |
| 3/4 inch | 50-85 |
| No. 4 | 30-55 |
| No. 50 | 8-24 |
| No. 200 | 3-10 |

SAMPLING AND TESTING SHALL BE IN ACCORDANCE WITH THE FOLLOWING STANDARD AASHTO METHODS:
 • SIEVE ANALYSIS: AASHTO T27
 • PASSING NO. 200 SIEVE: AASHTO T11

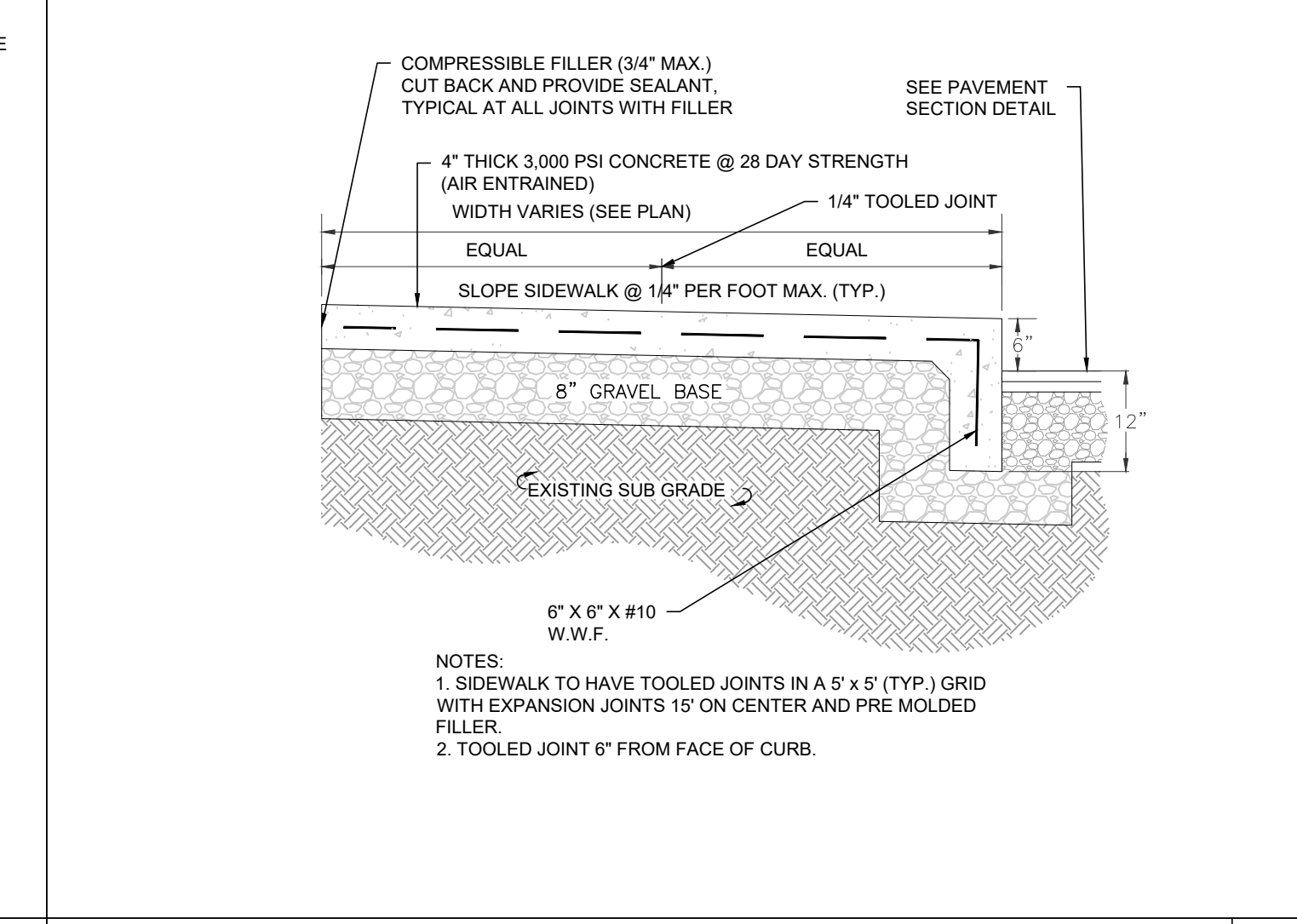
BACKFILL MATERIAL GRADATION REQUIREMENTS
 NOT TO SCALE **B4**



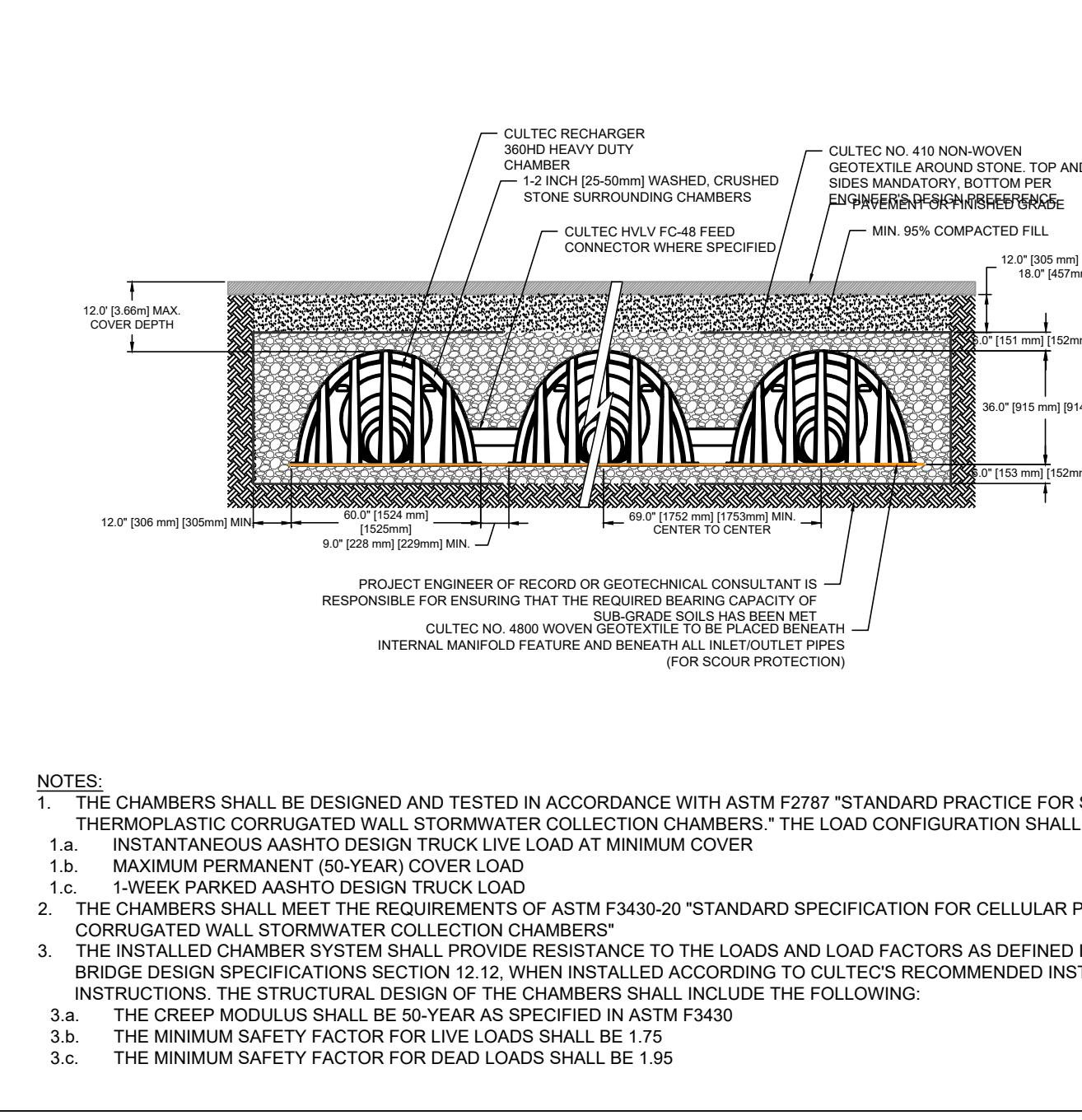
CULTEC RECHARGER 902HD SUBSURFACE INFILTRATION SYSTEM
 NOT TO SCALE **B3**



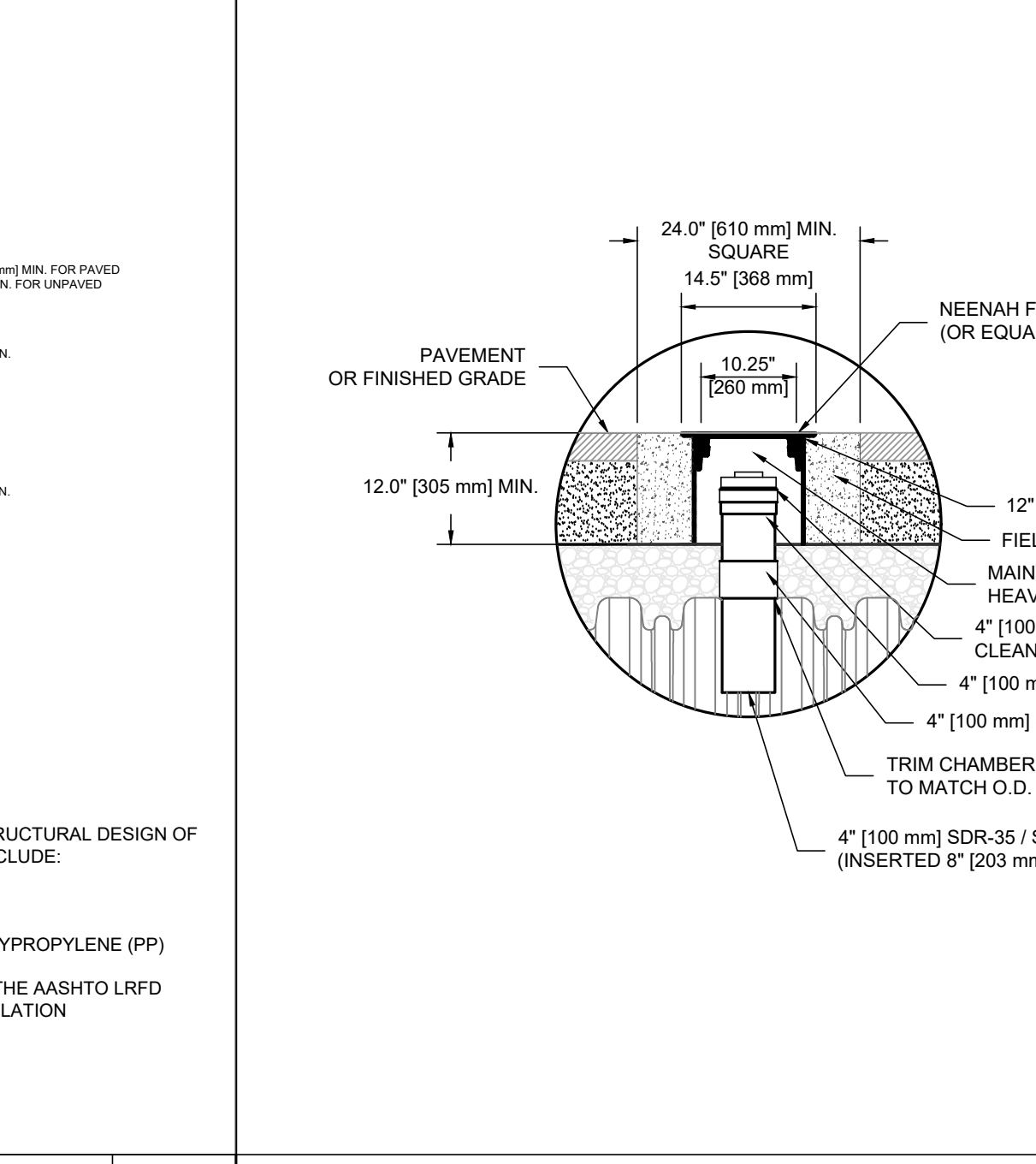
TYPICAL ELECTRICAL TRANSFORMER PAD
 NOT TO SCALE **B2**



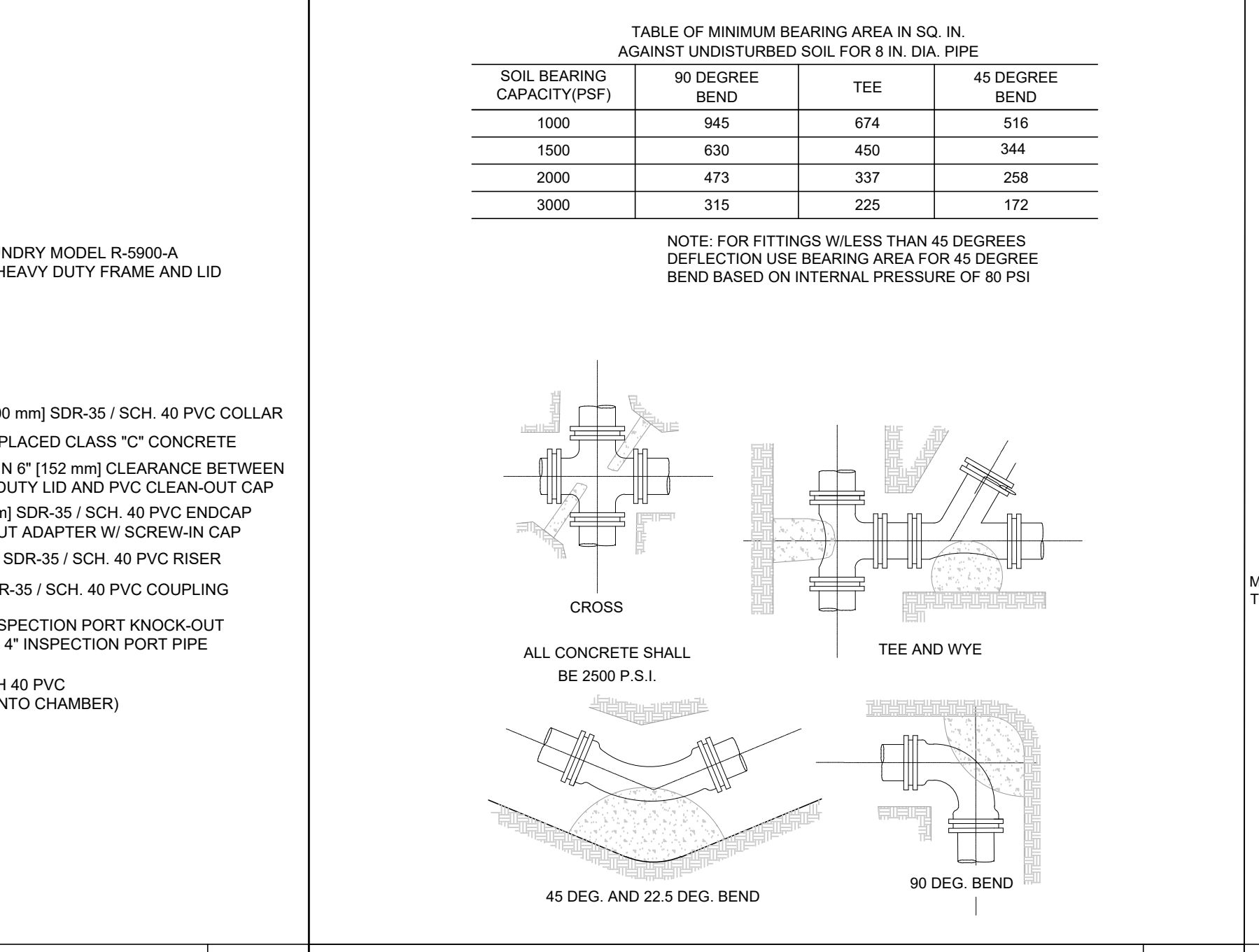
MONOLITHIC CONCRETE SIDEWALK
 NOT TO SCALE **B1**



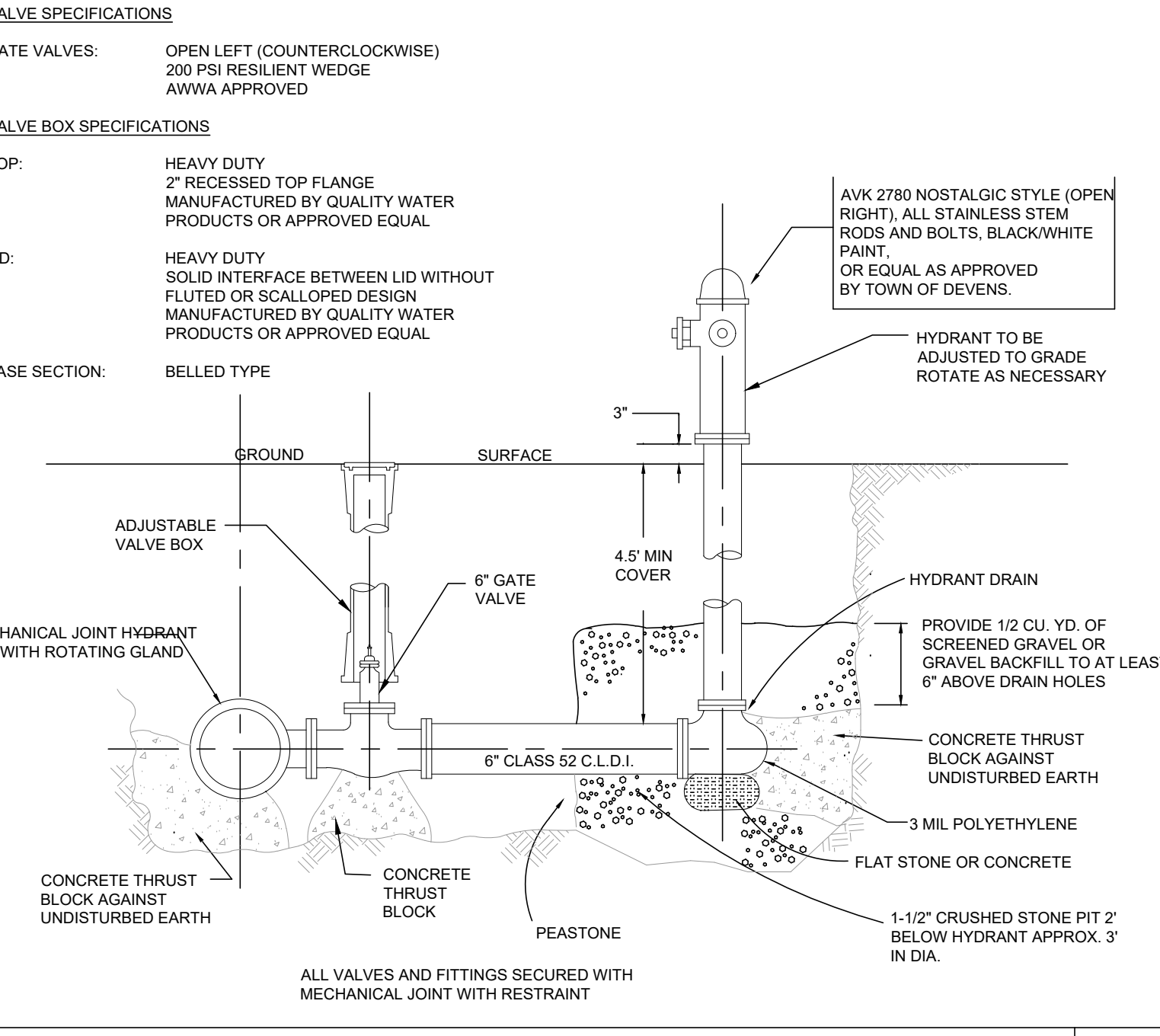
CULTEC RECHARGE 360HD SUBSURFACE INFILTRATION SYSTEM
 NOT TO SCALE **A4**



TYPICAL CULTEC INSPECTION PORT
 NOT TO SCALE **A3**



WATER THRUST BLOCK
 NOT TO SCALE **A2**

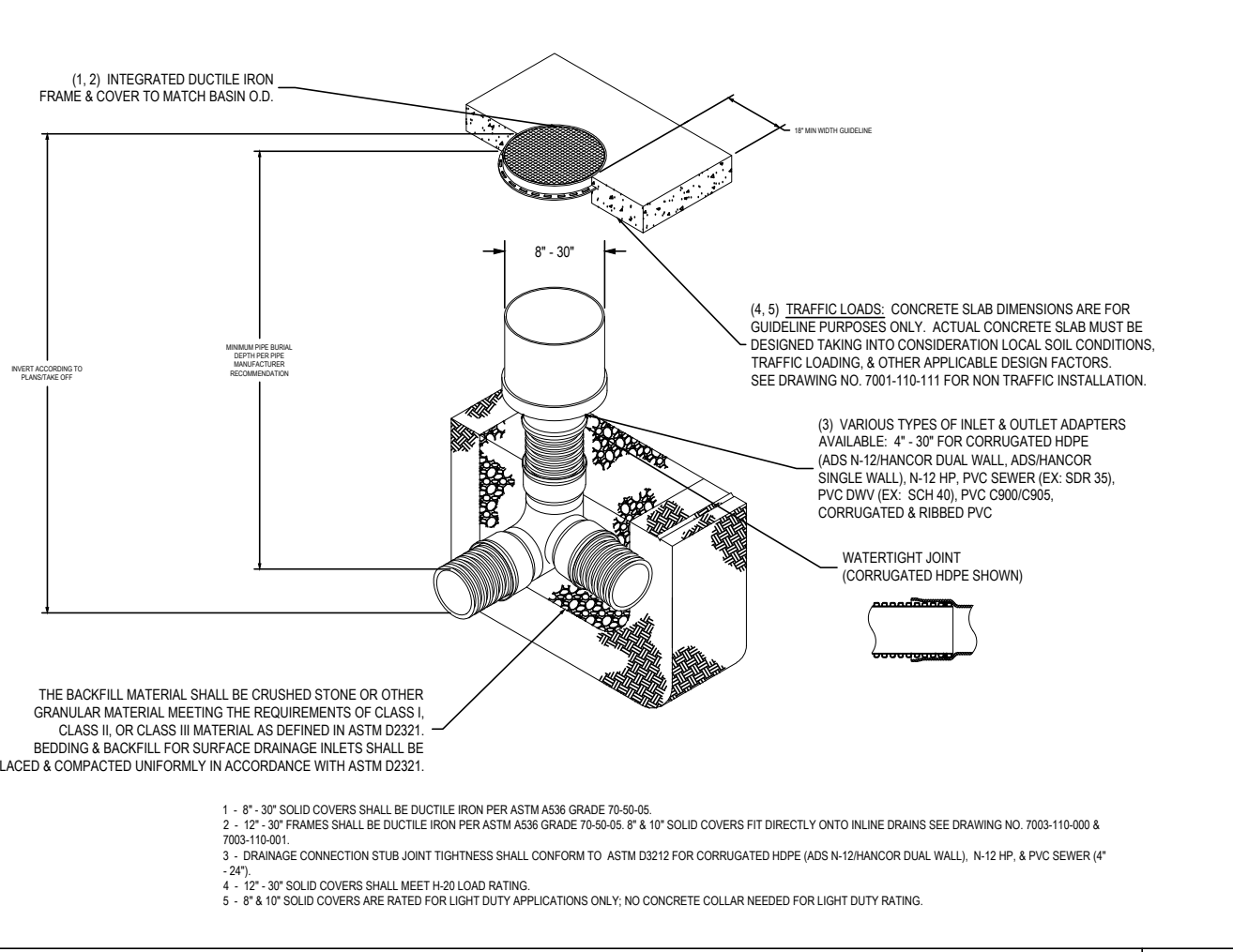


FIRE HYDRANT & GATE VALVE
 NOT TO SCALE **A1**

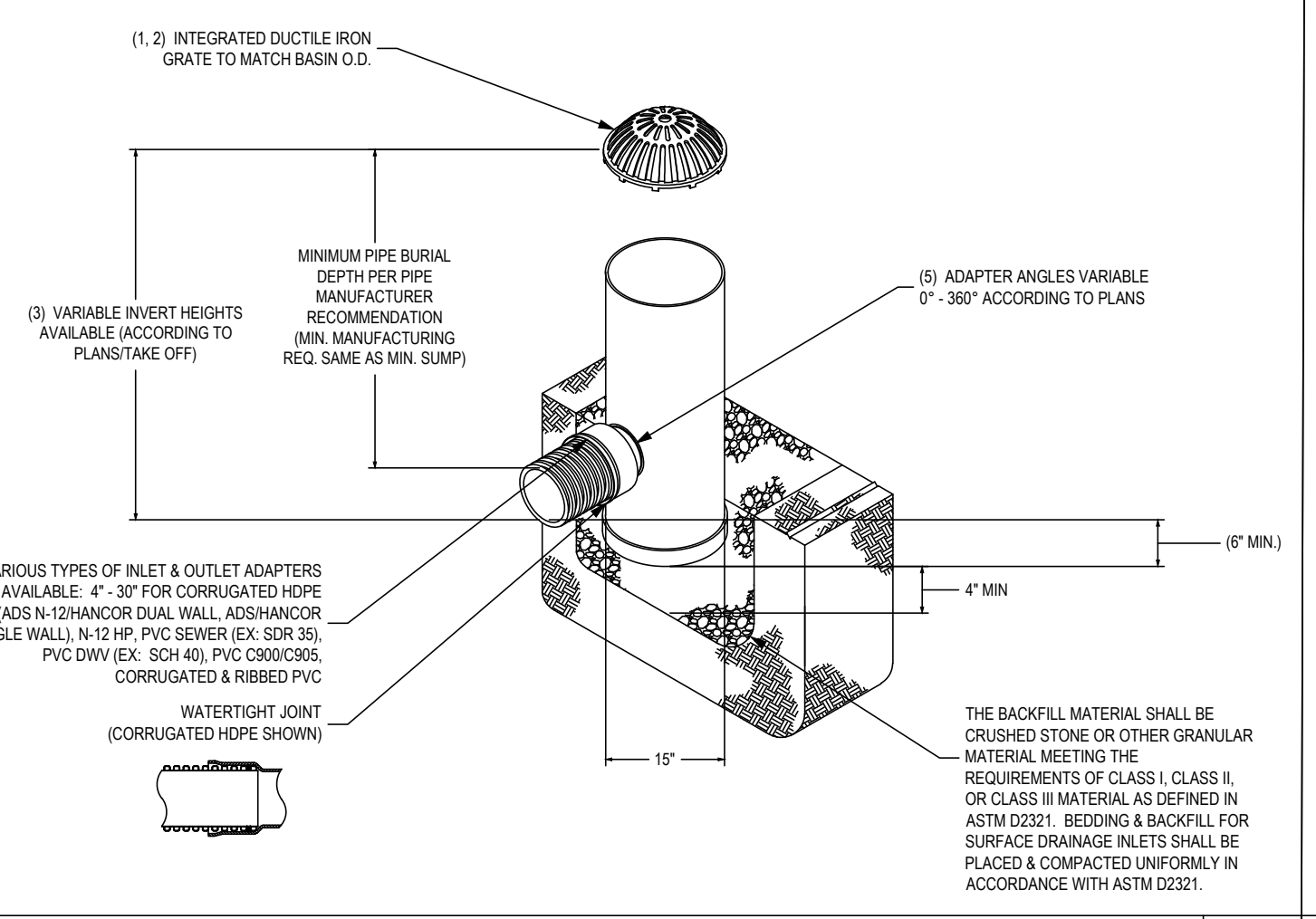
WAREHOUSE / INDUSTRIAL DEVELOPMENT
 100/200 FINANCIAL PARK
 FRANKLIN, MA
 OWNER/APPLICANT: BERKELEY PARTNERS

| REV | DATE | DESCRIPTION |
|-----|------------|----------------------|
| 4 | 10.05.2023 | RESPONSE TO COMMENTS |
| 3 | 08.15.2023 | RESPONSE TO COMMENTS |
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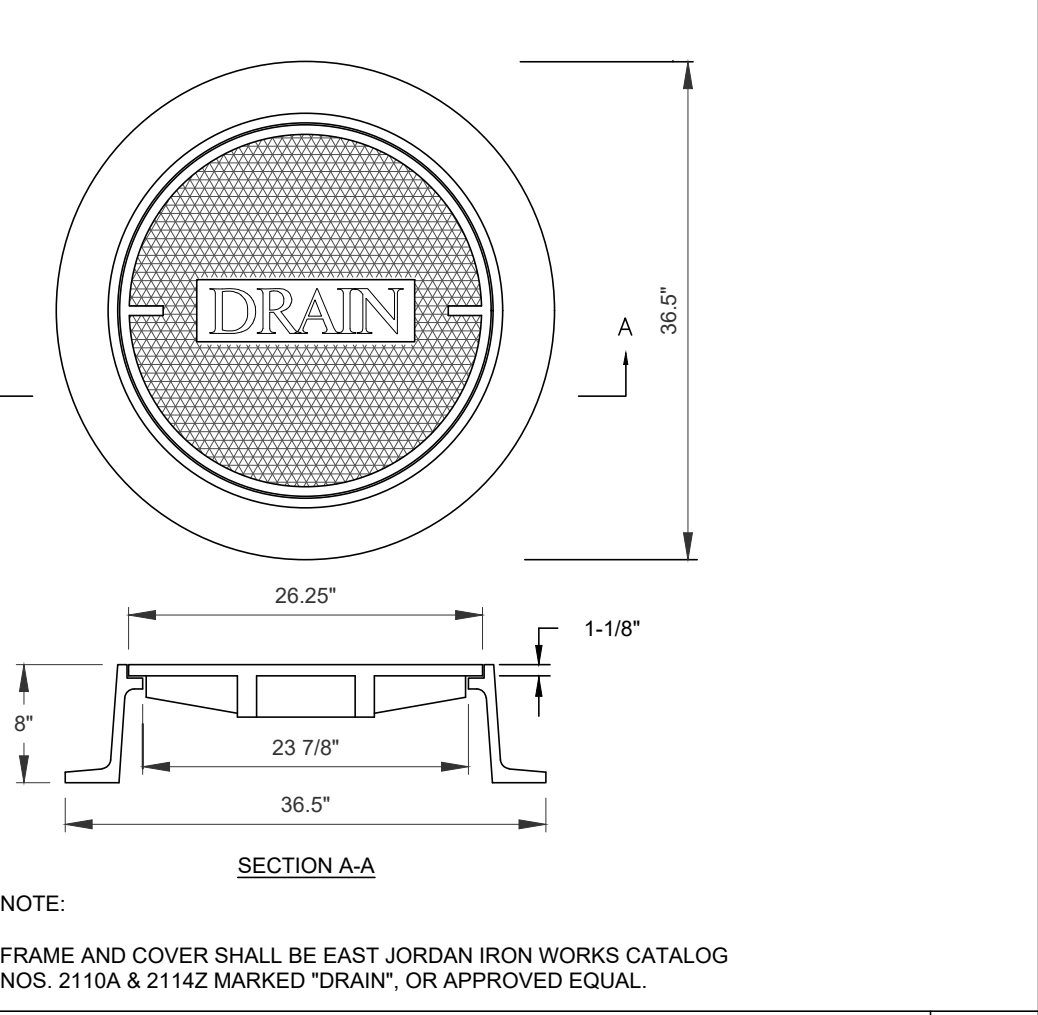
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 22051
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 CHECKED BY: DH
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DETAIL SHEET
 SHEET NUMBER:
C601



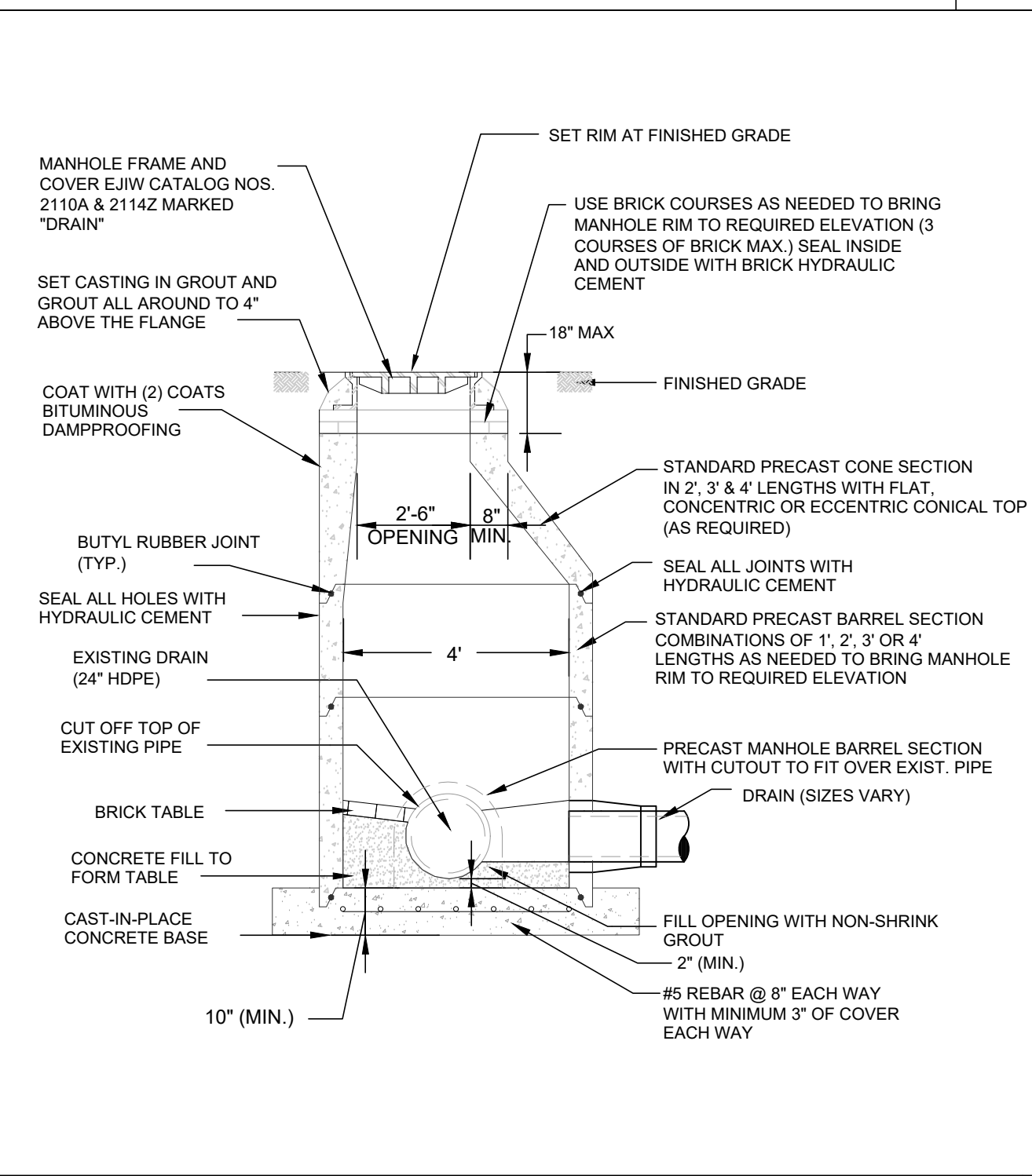
NYLOPLAST DRAIN CLEANOUT NOT TO SCALE **C3**



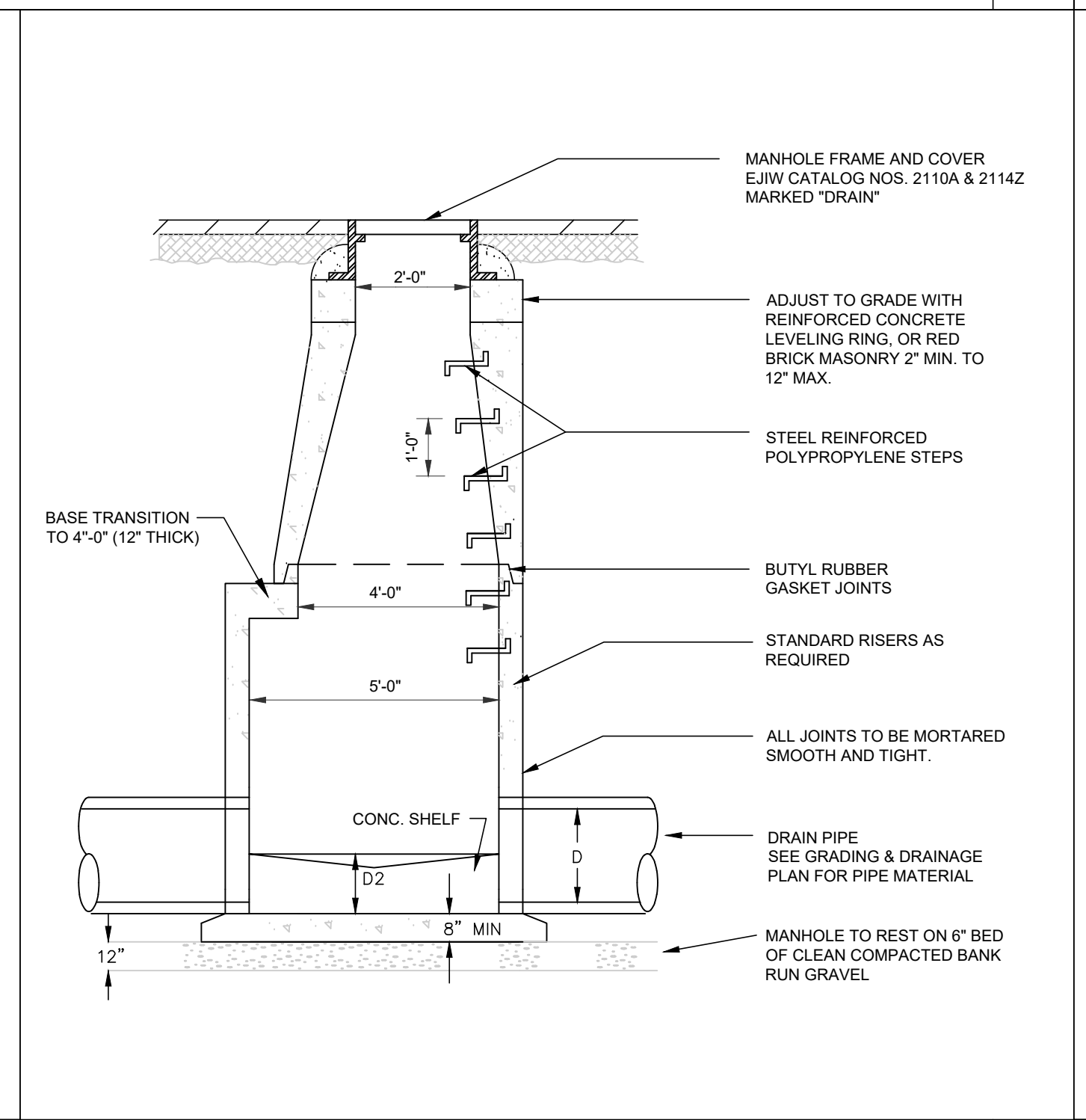
NYLOPLAST DOME GRATE NOT TO SCALE **C2**



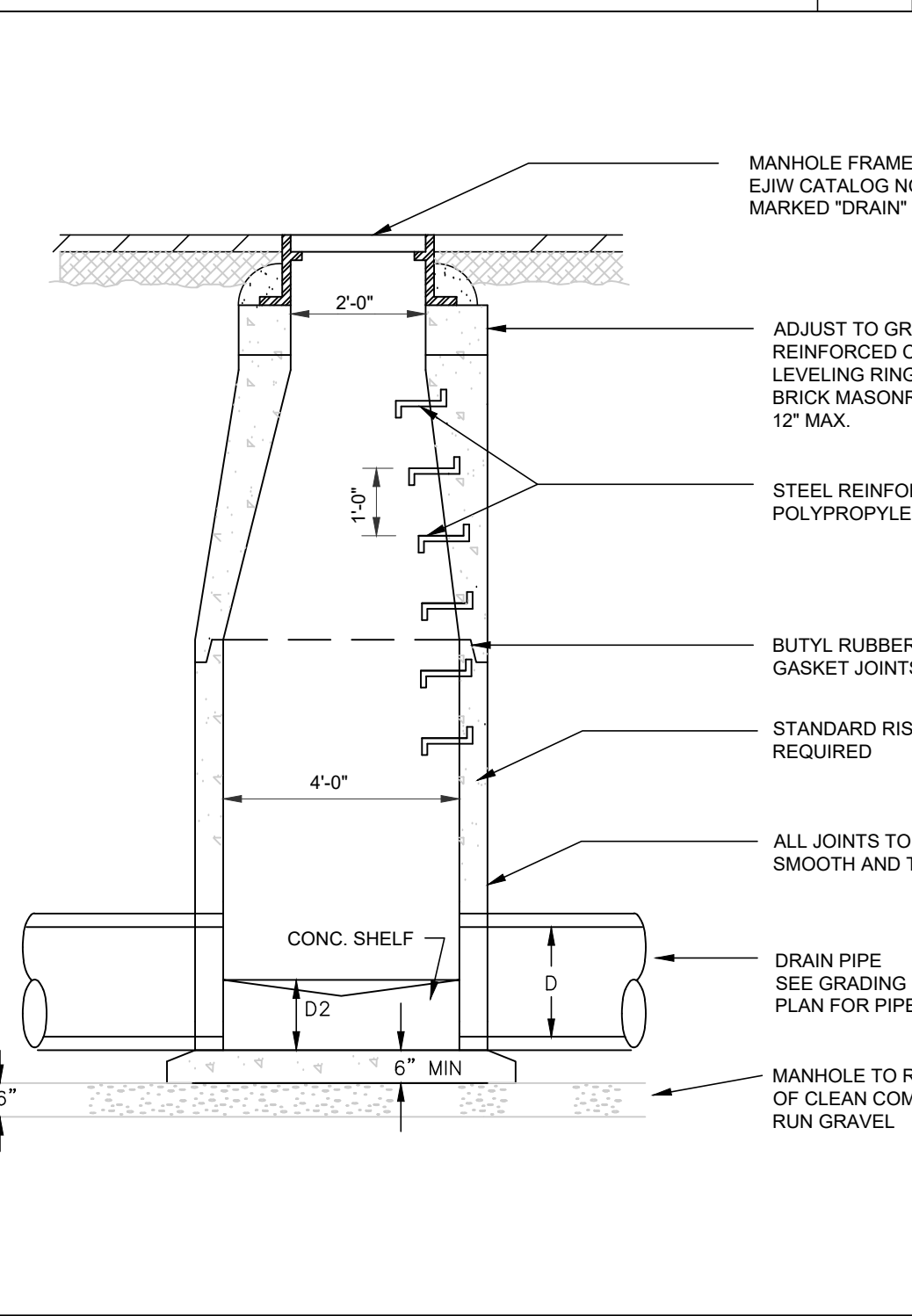
DRAIN MANHOLE FRAME AND COVER NOT TO SCALE **C1**



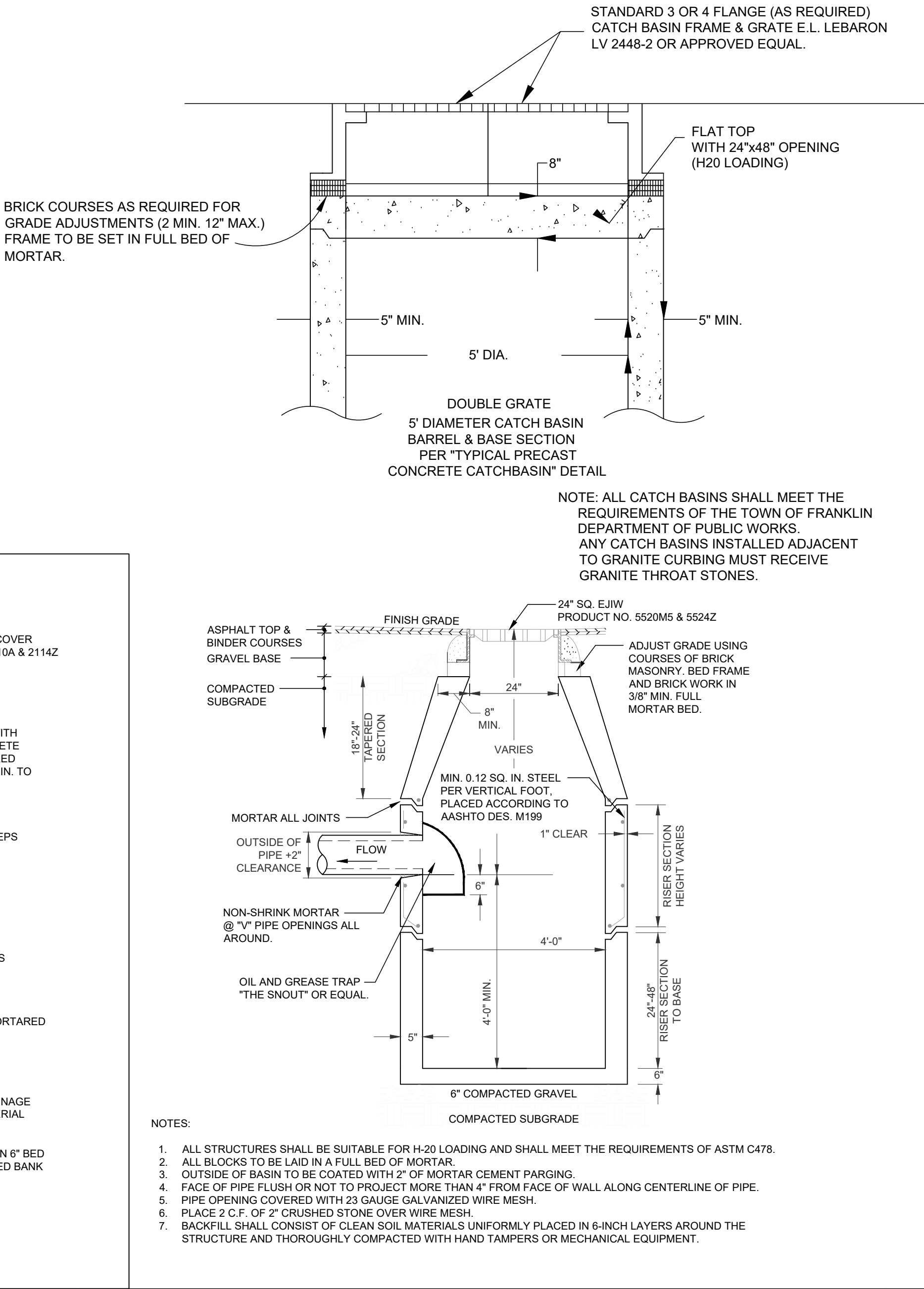
DOGHOUSE MANHOLE NOT TO SCALE **B4**



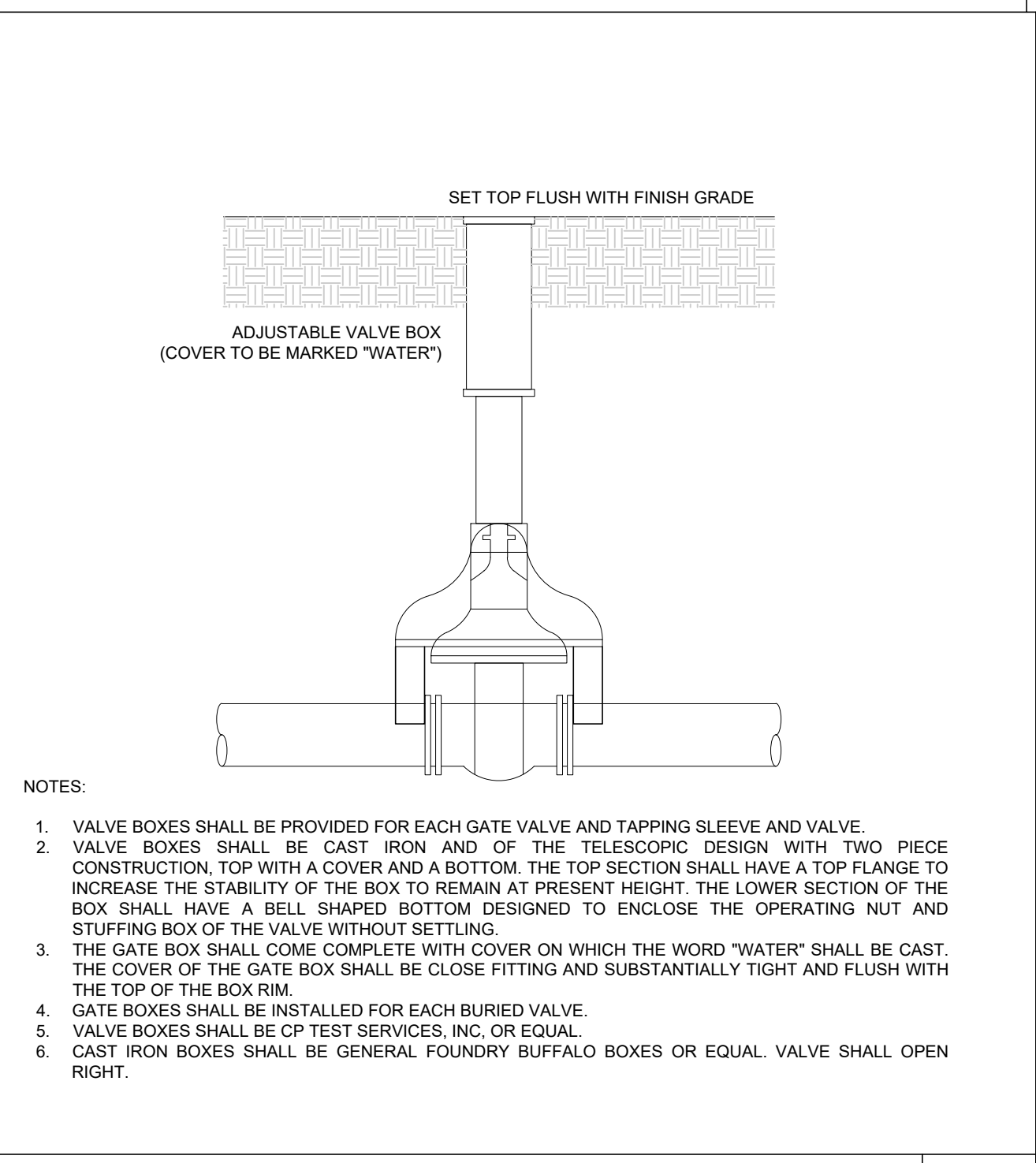
5' PRECAST CONCRETE DRAIN MANHOLE NOT TO SCALE **B3**



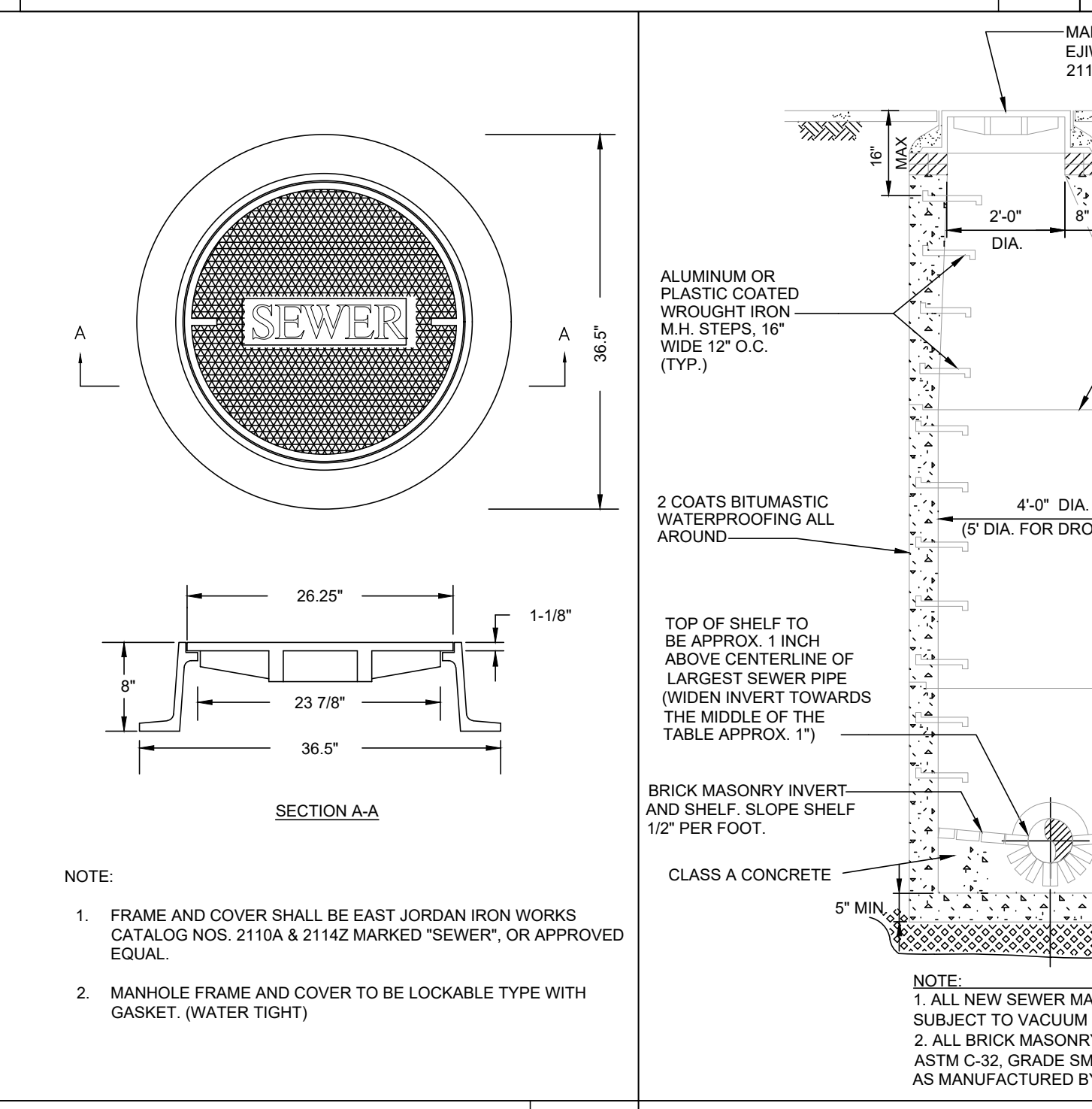
4' PRECAST CONCRETE DRAIN MANHOLE NOT TO SCALE **B2**



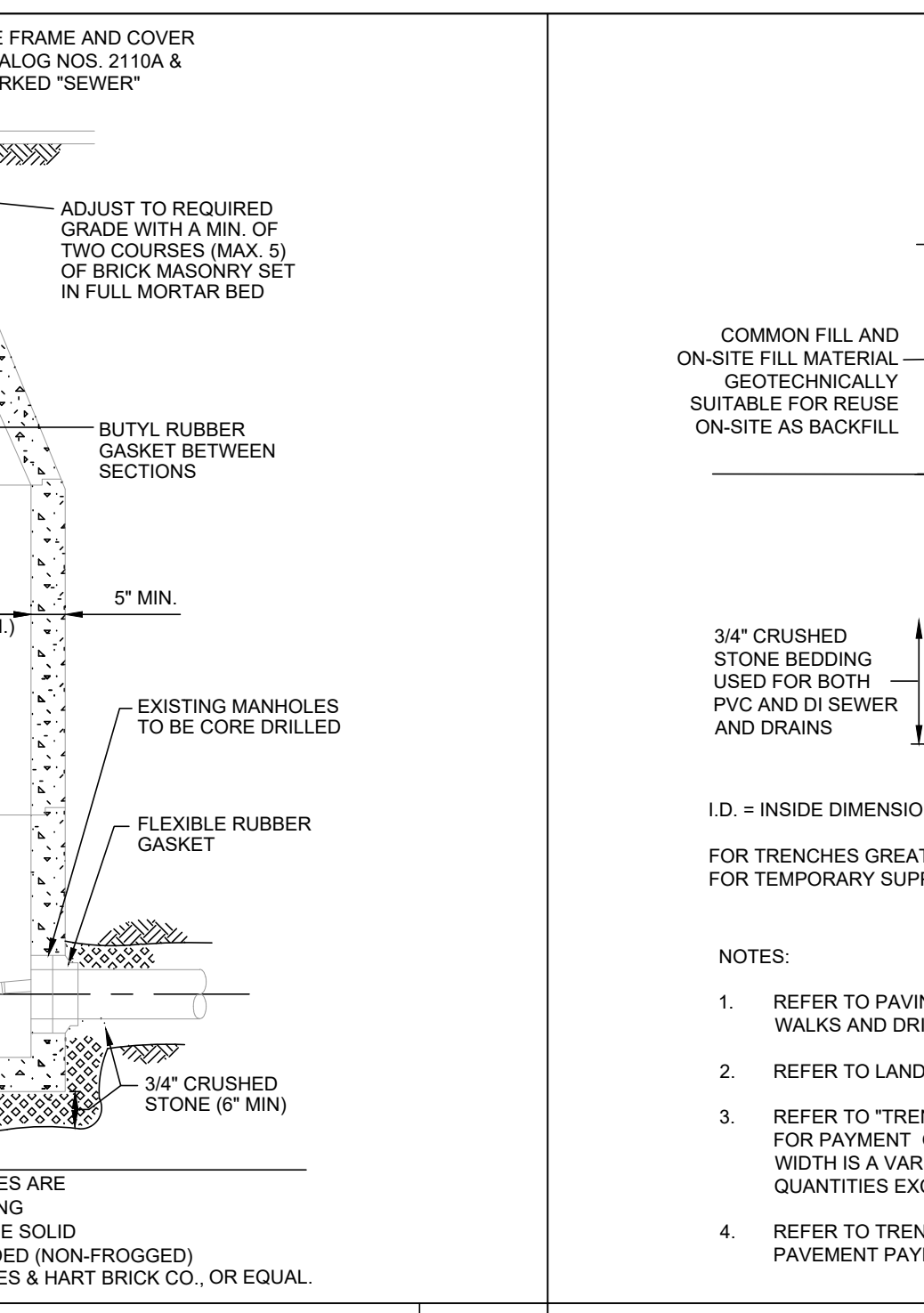
SINGLE & DOUBLE GRATE CATCH BASIN NOT TO SCALE **B1**



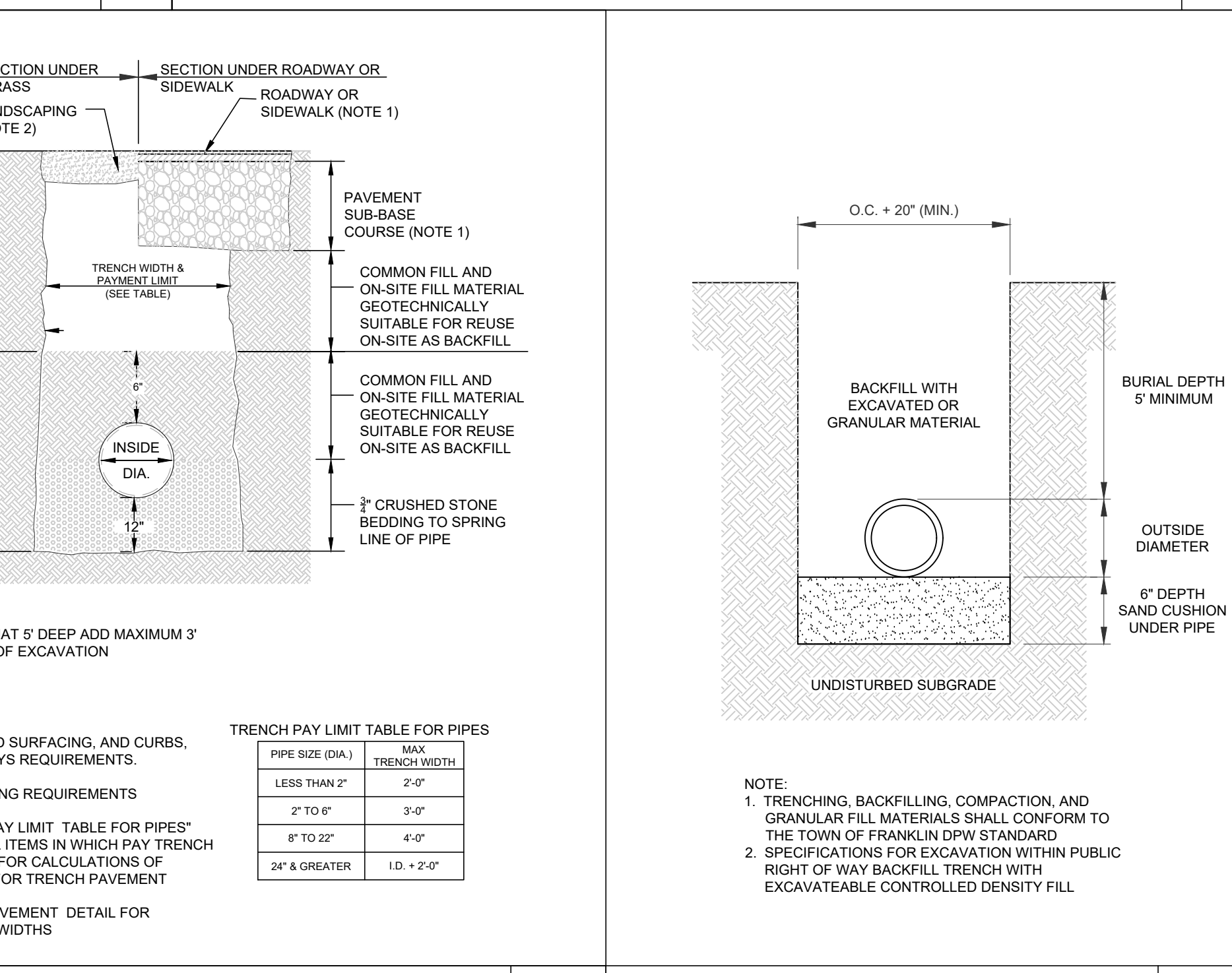
WATER GATE BOX NOT TO SCALE **A5**



SEWER MANHOLE FRAME & COVER NOT TO SCALE **A4**



SANITARY SEWER MANHOLE NOT TO SCALE **A3**

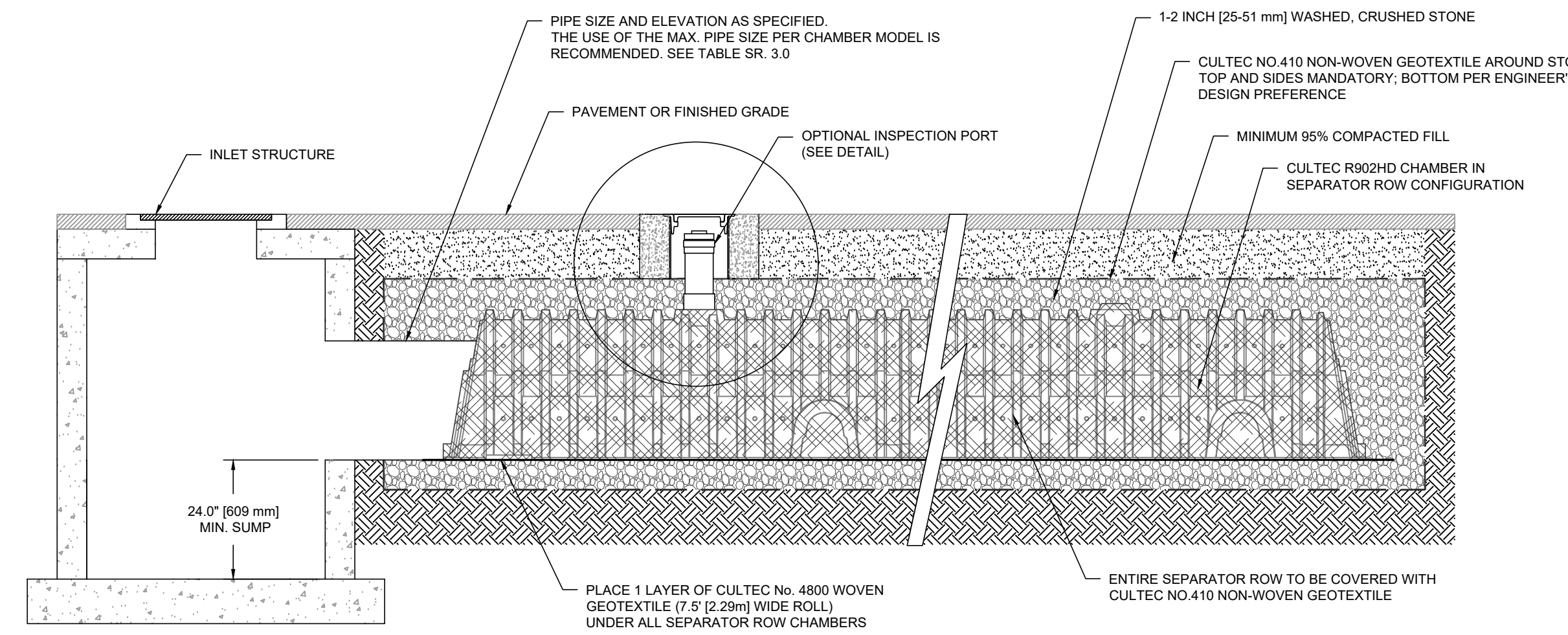


DRAINAGE AND SEWER TRENCH NOT TO SCALE **A2**

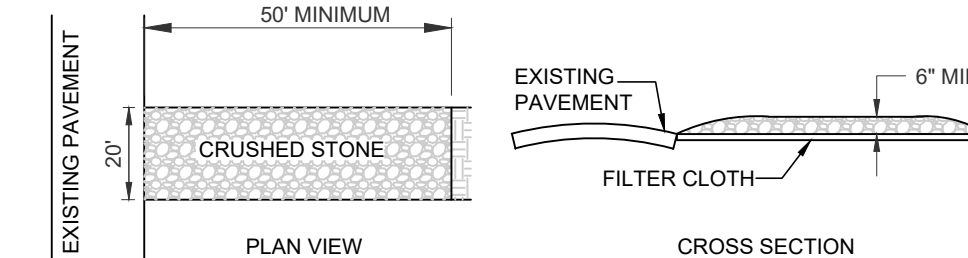
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| 1 | 07.17.2023 | RESPONSE TO COMMENTS |

ISSUE TYPE:
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PROJECT NUMBER:
22051
DRAWN BY: JMP
CHECKED BY: DH
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SHEET TITLE:
DETAIL SHEET
SHEET NUMBER:
C602

WATER TRENCH NOT TO SCALE **A1**

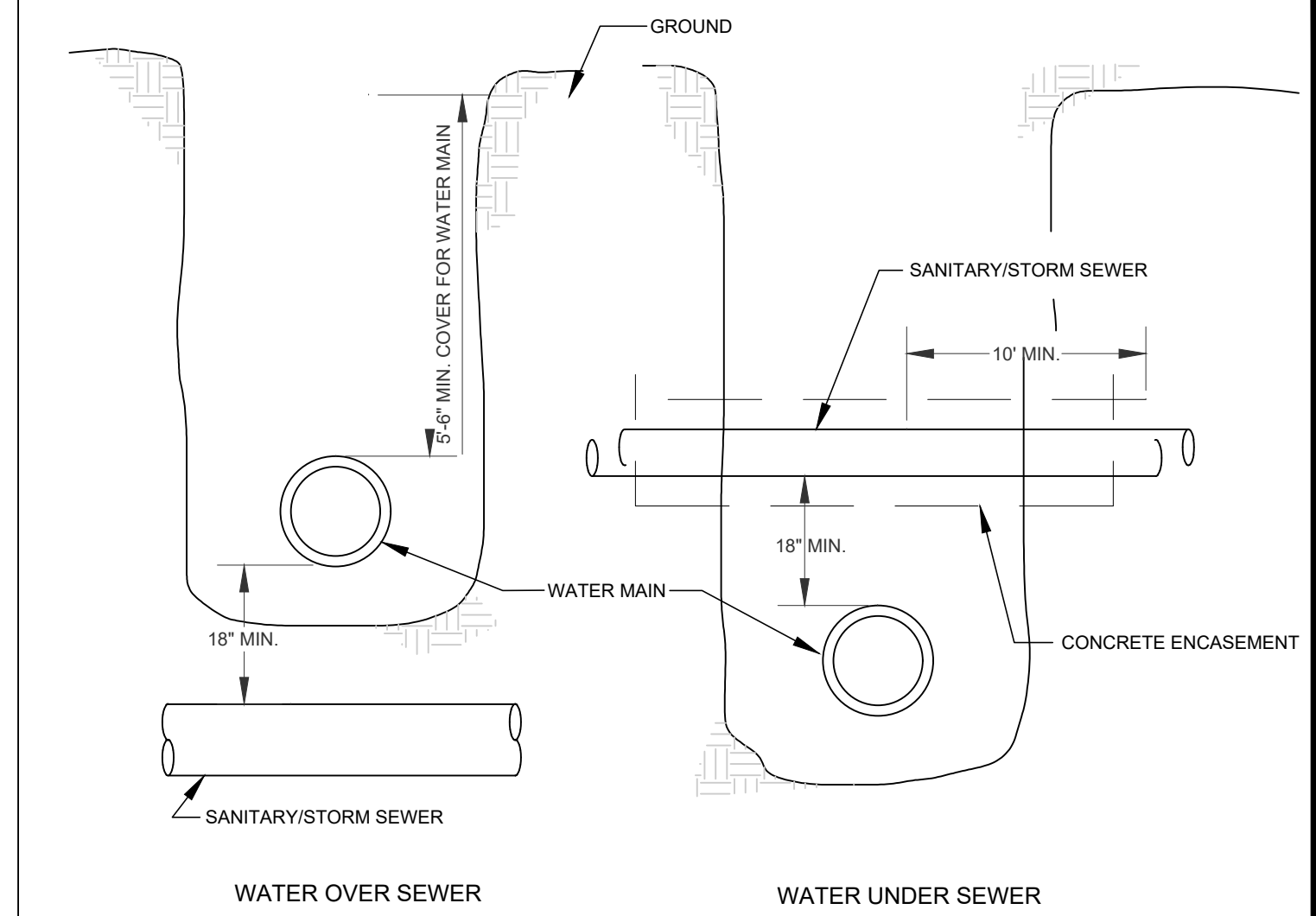


TYPICAL CULTEC SEPARATOR (ISOLATOR) ROW CONFIGURATION NOT TO SCALE **C3**



- TRACKING PAD NOTES
1. STONE SIZE - USE 6" ANGULAR CRUSHED STONE
 2. FILTER CLOTH - SHALL BE PLACED OVER THE ENTIRE AREA PRIOR TO PLACING OF STONE.
 3. SURFACE WATER - ALL SURFACE WATER FLOWING OR DIVERTED TOWARD CONSTRUCTION ENTRANCES SHOULD BE PIPED ACROSS THE ENTRANCE. IF PIPING IS IMPRACTICAL, A MOUNTABLE BERM SHOULD BE PERMITTED.
 4. MAINTENANCE - THE ENTRANCE SHALL BE MAINTAINED IN A CONDITION WHICH PREVENTS TRACKING OR FLOWING OF SEDIMENT ONTO PUBLIC RIGHTS-OF-WAY. THIS MAY REQUIRE PERIODIC TOP DRESSING WITH ADDITIONAL STONE AS CONDITIONS DEMAND AND REPAIR OR CLEANING OF ANY MEASURES USED TO TRAP SEDIMENT. ALL SEDIMENT SPILLED, DROPPED, WASHED OR TRACKED ONTO PUBLIC RIGHTS-OF-WAY MUST BE REMOVED IMMEDIATELY.

CRUSHED STONE TRACKING PAD NOT TO SCALE **C2**



TYPICAL WATER-SEWER CROSSING NOT TO SCALE **C1**

SEPARATOR ROW™ SPECIFICATIONS

GENERAL

1. CULTEC'S SEPARATOR ROW IS USED AS AN INEXPENSIVE MEANS OF REMOVING TOTAL SUSPENDED SOLIDS FROM THE CHAMBER SYSTEM, AS WELL AS PROVIDING EASIER ACCESS FOR INSPECTION AND MAINTENANCE.

2. THE SEPARATOR ROW PERFORMANCE SHALL BE TESTED AND VERIFIED TO THE PROTOCOLS AND PROCEDURES AS DEFINED BY ENVIRONMENTAL TECHNOLOGY VERIFICATION (ETV) CANADA TO ACHIEVE 80% TSS REMOVAL.

INSTALLATION INSTRUCTIONS

A SEPARATOR ROW IS INSTALLED ON A 1-2 INCH [25-51 mm] WASHED, CRUSHED STONE BASE. TYPICALLY, THE CULTEC CHAMBER MODEL USED FOR THE SEPARATOR ROW IS THE SAME CHAMBER USED THROUGHOUT THE ENTIRE CHAMBER BED.

STORMWATER IS DISTRIBUTED TO THE SEPARATOR ROW BY A PRIMARY FEED SYSTEM THAT DIVERTS FLOW TO THE SEPARATOR ROW AND A SECONDARY BYPASS FEED SYSTEM THAT DIVERTS THE FLOW OF CLEAN WATER TO THE OTHER PARTS OF THE UNDERGROUND STORMWATER MANAGEMENT SYSTEM. THE DISTRIBUTION SYSTEM MAY BE BY PIPES SET AT A LOWER ELEVATION THAT PERMIT THE FIRST FLUSH TO THE SEPARATOR ROW VERSUS OTHER PARTS OF THE UNDERGROUND STORMWATER SYSTEM. THIS INITIAL FLOW MAY BE MANAGED BY A BAFFLE OR WEIR. THE SIZING OF THE PIPE(S) THAT PROVIDE STORM WATER TO THE SEPARATOR ROW IS TO BE DETERMINED BY THE DESIGN ENGINEER AND IS BASED UPON THE REQUIREMENT TO ACCOMMODATE THE DESIGN FLOW AND SERVICE CONVENIENCE.

THE CHAMBERS UTILIZED IN THE SEPARATOR ROW ARE TO BE COMPLETELY WRAPPED WITH CULTEC NO. 410 NON-WOVEN GEOTEXTILE. THIS CREATES A PASS-THROUGH FILTER ARRANGEMENT TO SEPARATE TOTAL SUSPENDED SOLIDS IN THE TRANSFER OF STORM WATER TO OTHER CHAMBERS THROUGHOUT THE UNDERGROUND STORMWATER MANAGEMENT SYSTEM.

ONCE WRAPPED, THE SEPARATOR ROW IS TO THEN BE PLACED ENTIRELY OVER 1 LAYER OF CULTEC NO. 4800 WOVEN GEOTEXTILE. THIS WOVEN GEOTEXTILE PROVIDES A DURABLE SURFACE WITHIN THE ROW FOR MAINTENANCE PROCEDURES AS WELL AS TO PREVENT ANY SCOURING OF THE STONE BASE DURING HIGH PRESSURE JETTING.

THE RECOMMENDED INSTALLATION OF SEPARATOR ROW CHAMBERS, IN REGARD TO STONE SEPARATION AND STONE ABOVE THE UNIT, ALONG WITH OTHER MINIMUM BURIAL MATERIALS AND METHOD SPECIFICATIONS DETAILED FOR THE PROPER INSTALLATION, IS THE SAME AS CULTEC'S REQUIREMENT DETAILED IN THE COMPANY'S INSTALLATION GUIDELINES WITH THE EXCEPTION OF THE PLACEMENT OF THE REQUIRED FILTERING FABRICS. PLEASE REFER TO CULTEC'S CURRENT INSTALLATION INSTRUCTIONS FOR STORMWATER CHAMBERS AS A GUIDE.

MAINTENANCE PROCEDURES

CULTEC RECOMMENDS INSPECTIONS OF THE SEPARATOR ROW TO BE PERFORMED EVERY SIX MONTHS FOR THE FIRST YEAR. THE FREQUENCY OF INSPECTION CAN THEN BE ADJUSTED BASED UPON PREVIOUS OBSERVATION OF SEDIMENT DEPOSITION.

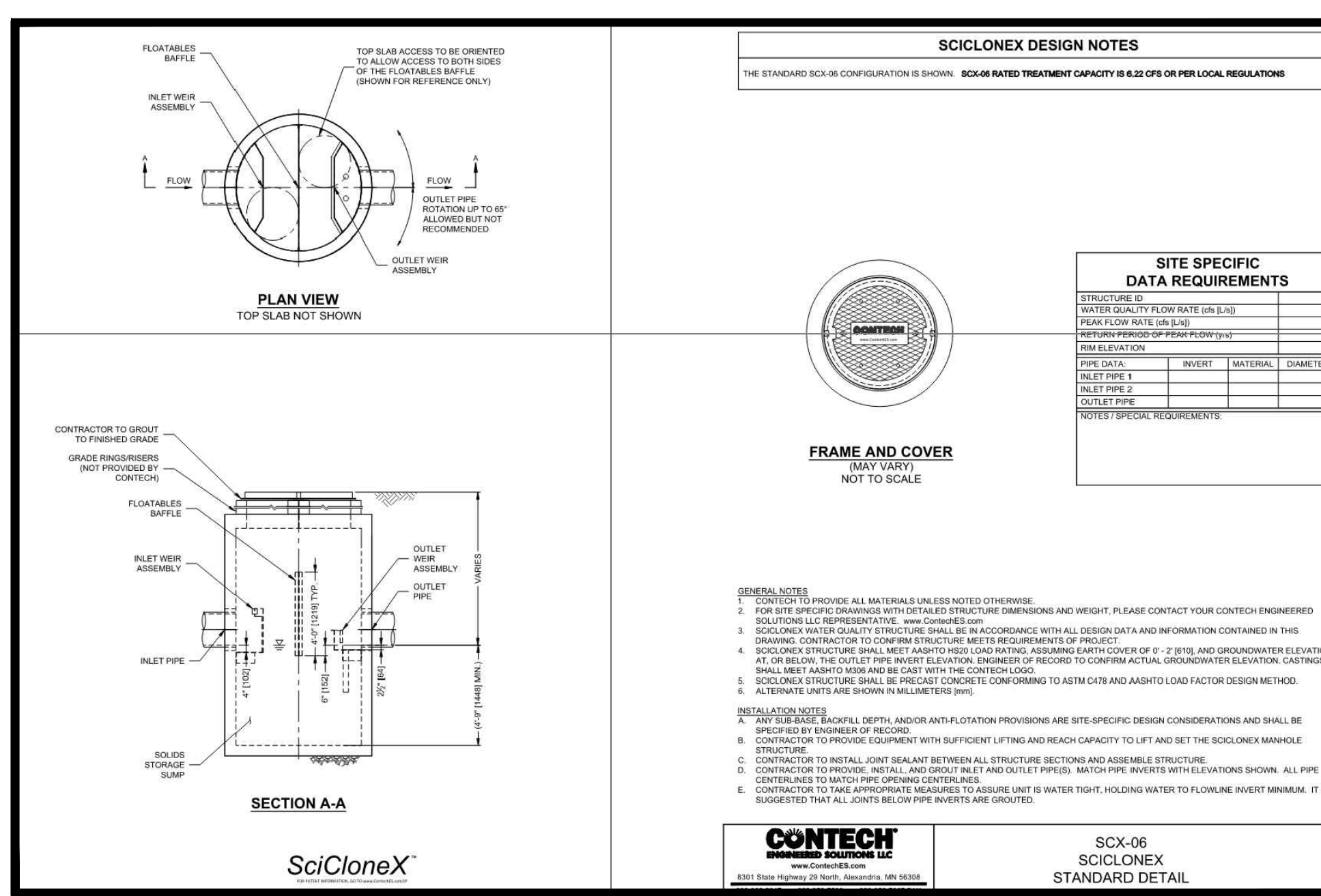
WHILE CLEANING IS POSSIBLE FROM A SINGLE MANHOLE IN SHORTER LINES, A CLEAN-OUT OPTION FROM EITHER END OF A LINE IS PREFERABLE, PARTICULARLY FOR LONGER RUNS. CLEANING INVOLVES FLUSHING SEDIMENT FROM THE BASE FABRIC OF THE SEPARATOR ROW.

ACCESS WILL BE PROVIDED VIA A MANHOLE(S) LOCATED AT THE END(S) OF THE ROW FOR CLEAN OUT.

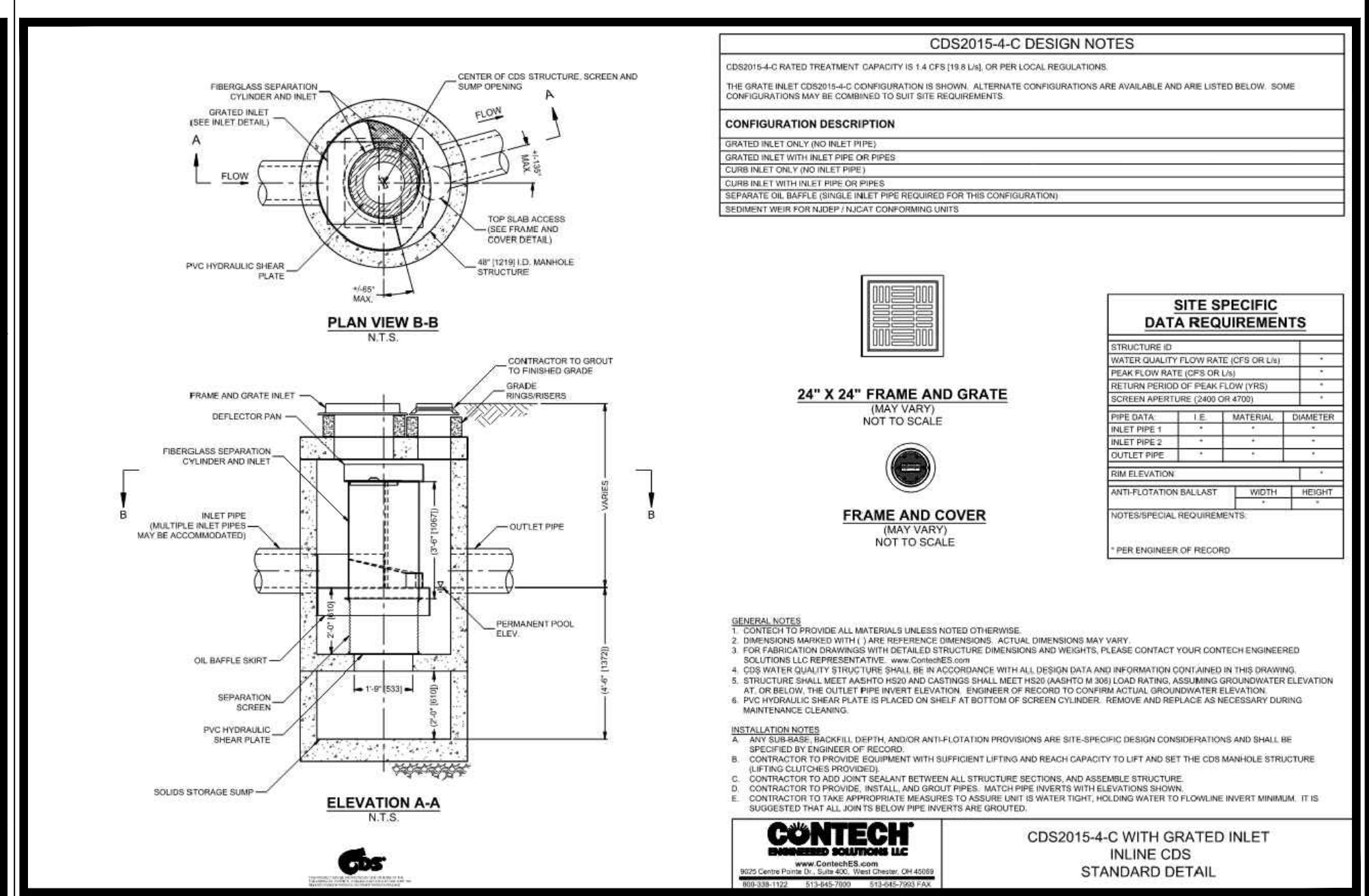
MAINTENANCE OF THE SEPARATOR ROW IS TO BE ACCOMPLISHED WITH A JETVAC PROCESS.

THE JETVAC IS TO BE SENT DOWN THE ENTIRE LENGTH OF THE SEPARATOR ROW. AS THE HIGH PRESSURE WATER NOZZLE IS RETRIEVED, THE CAPTURED SEDIMENTS ARE PUSHED BACK INTO THE MANHOLE FOR VACUUMING.

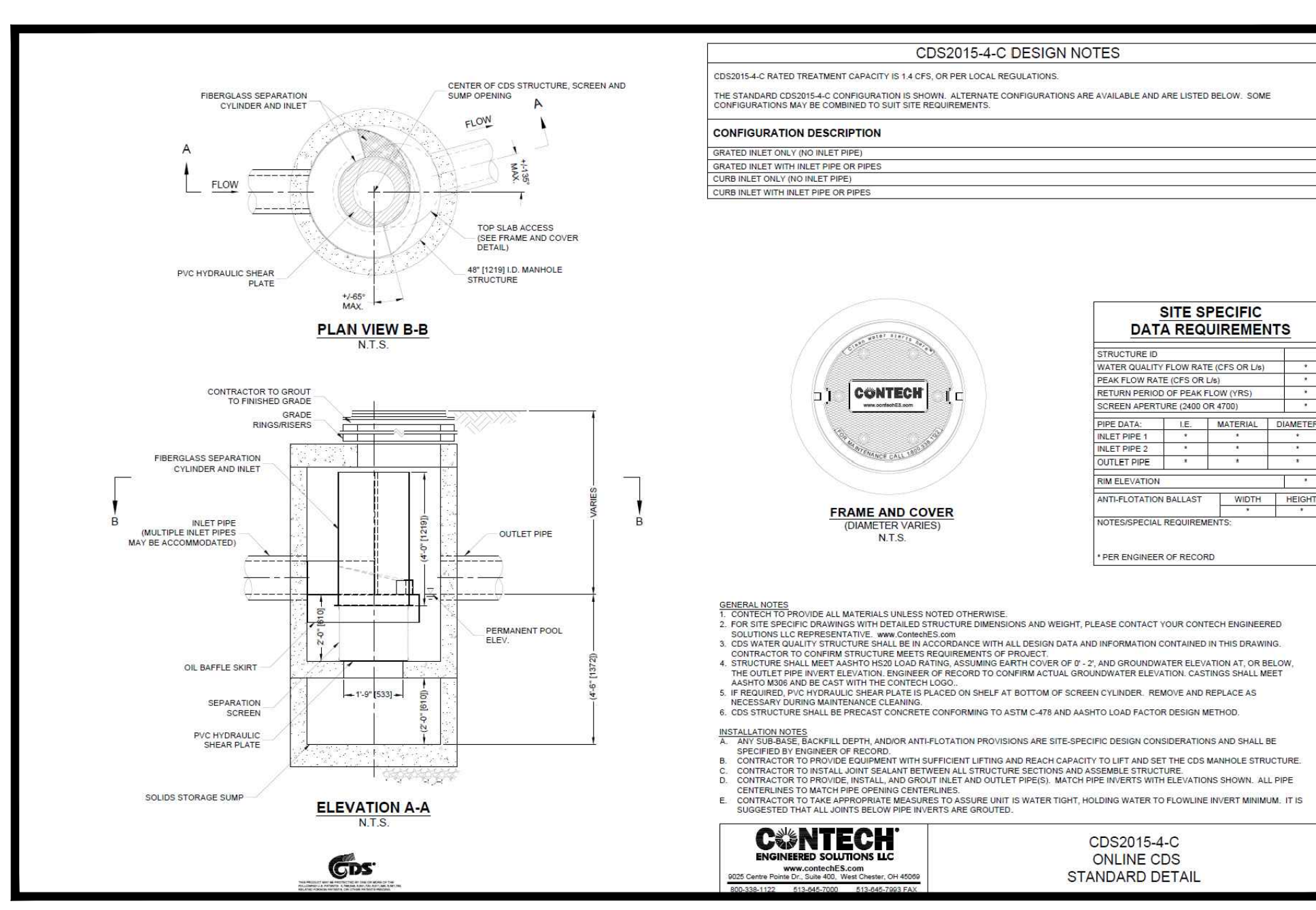
CULTEC SEPARATOR (ISOLATOR) ROW NOTES NOT TO SCALE **A3**



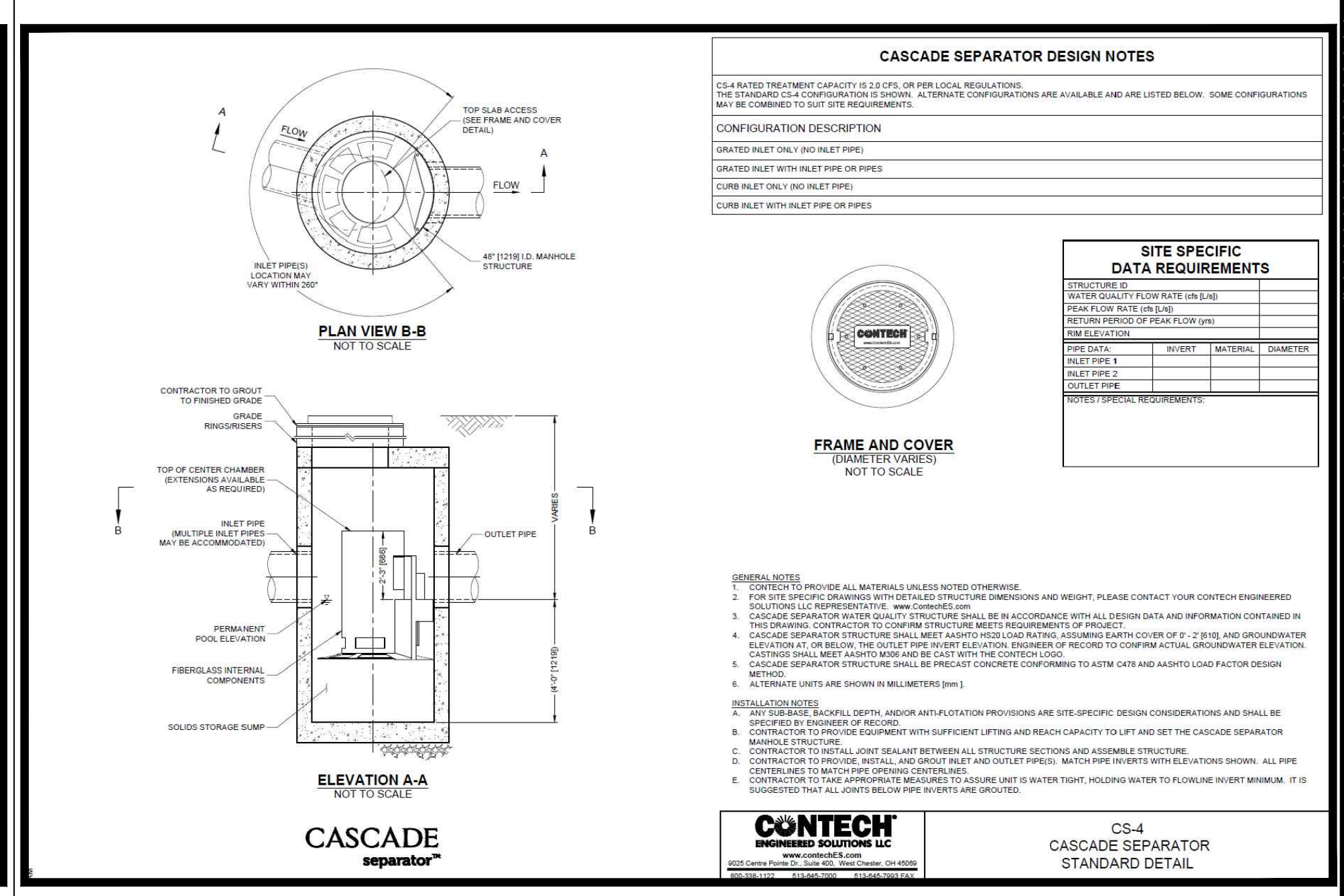
SCICLONEX SCX-06 (WQU-7) NOT TO SCALE **B2**



CONTECH CDS2015-4-C WITH GRATED INLET (WQU-5) NOT TO SCALE **B1**



CONTECH CDS2015-4-C (WQU-3) NOT TO SCALE **A2**



CONTECH CASCADE CS-4 (WQU-1) NOT TO SCALE **A1**

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FRANKLIN, MA

OWNER/APPLICANT: BERKELEY PARTNERS

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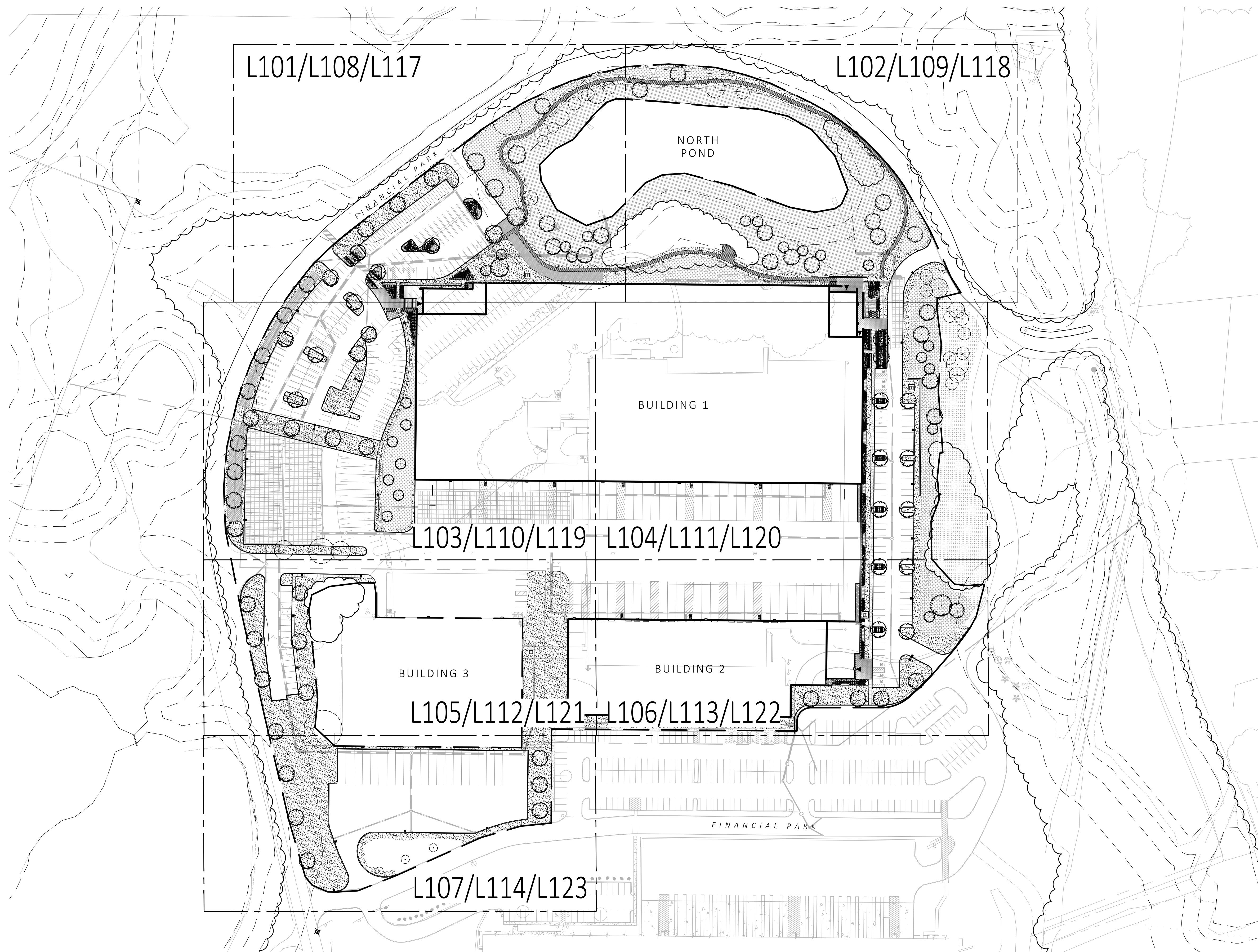
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1 SHEET LAYOUT KEY PLAN
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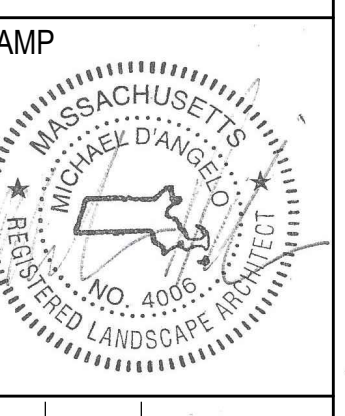


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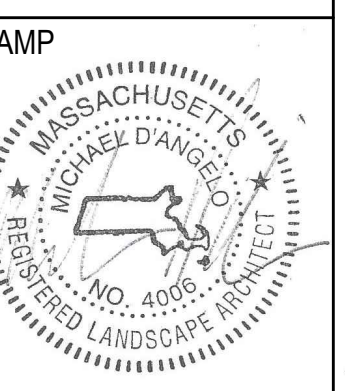
KEY PLAN

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DATE:
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MATERIALS PLAN

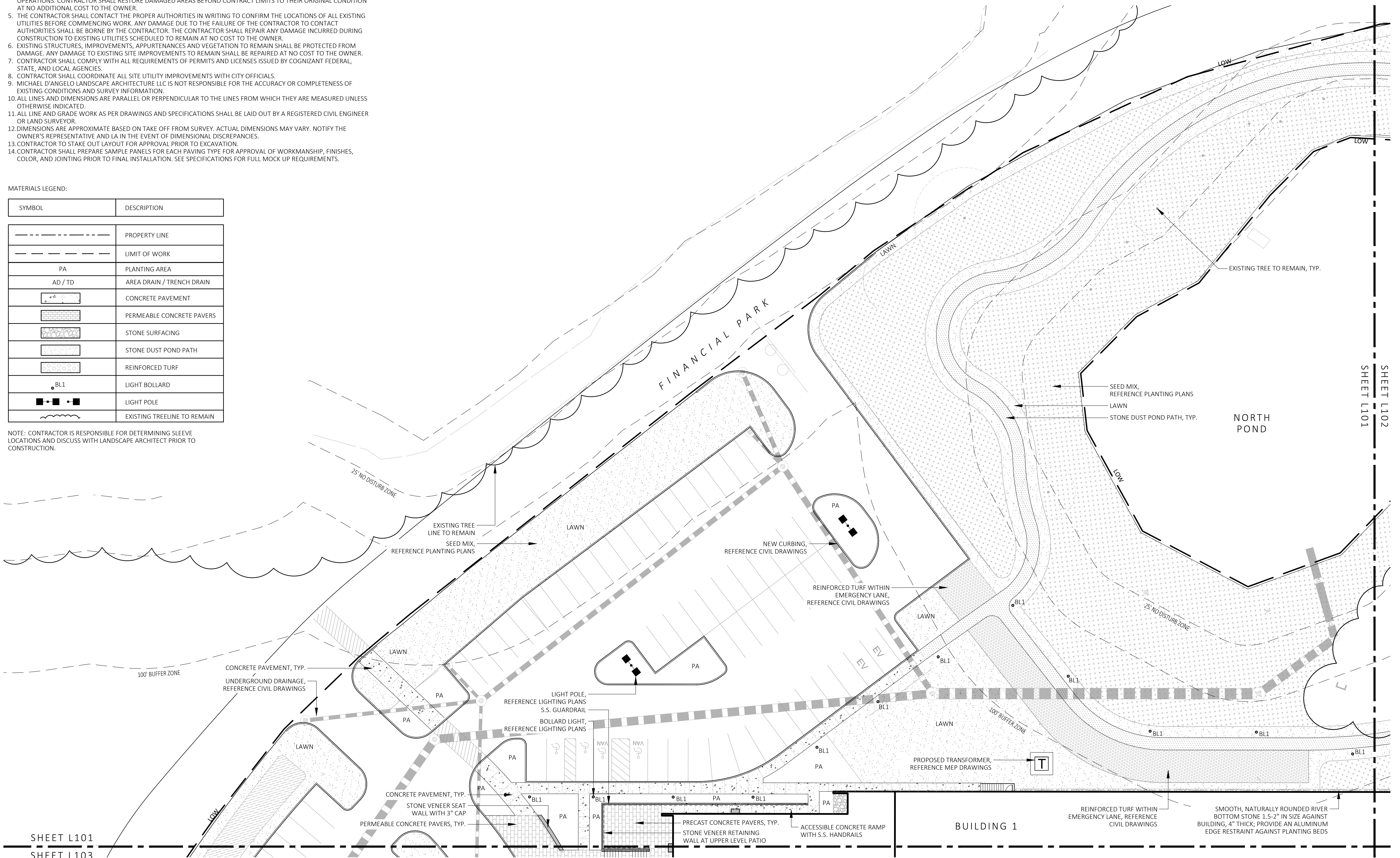
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| SCALE: AS NOTED | |
| DATE: 5/11/2023 | |
| SHEET 02 OF 24 | |

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MATERIALS LEGEND:

| SYMBOL | DESCRIPTION |
|-----------|-----------------------------|
| --- | PROPERTY LINE |
| - - - | LIMIT OF WORK |
| PA | PLANTING AREA |
| AD / TD | AREA DRAIN / TRENCH DRAIN |
| [Pattern] | CONCRETE PAVEMENT |
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| [Pattern] | REINFORCED TURF |
| BL1 | LIGHT BOLLARD |
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| [Symbol] | EXISTING TREELINE TO REMAIN |

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SHEET L101
SHEET L103

1 MATERIALS PLAN
SCALE: 1" = 20'-0"



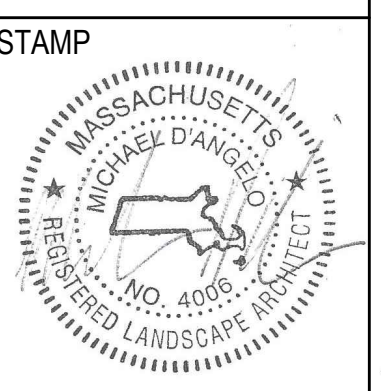
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SCALE: AS NOTED
DATE: 5/11/2023

L102

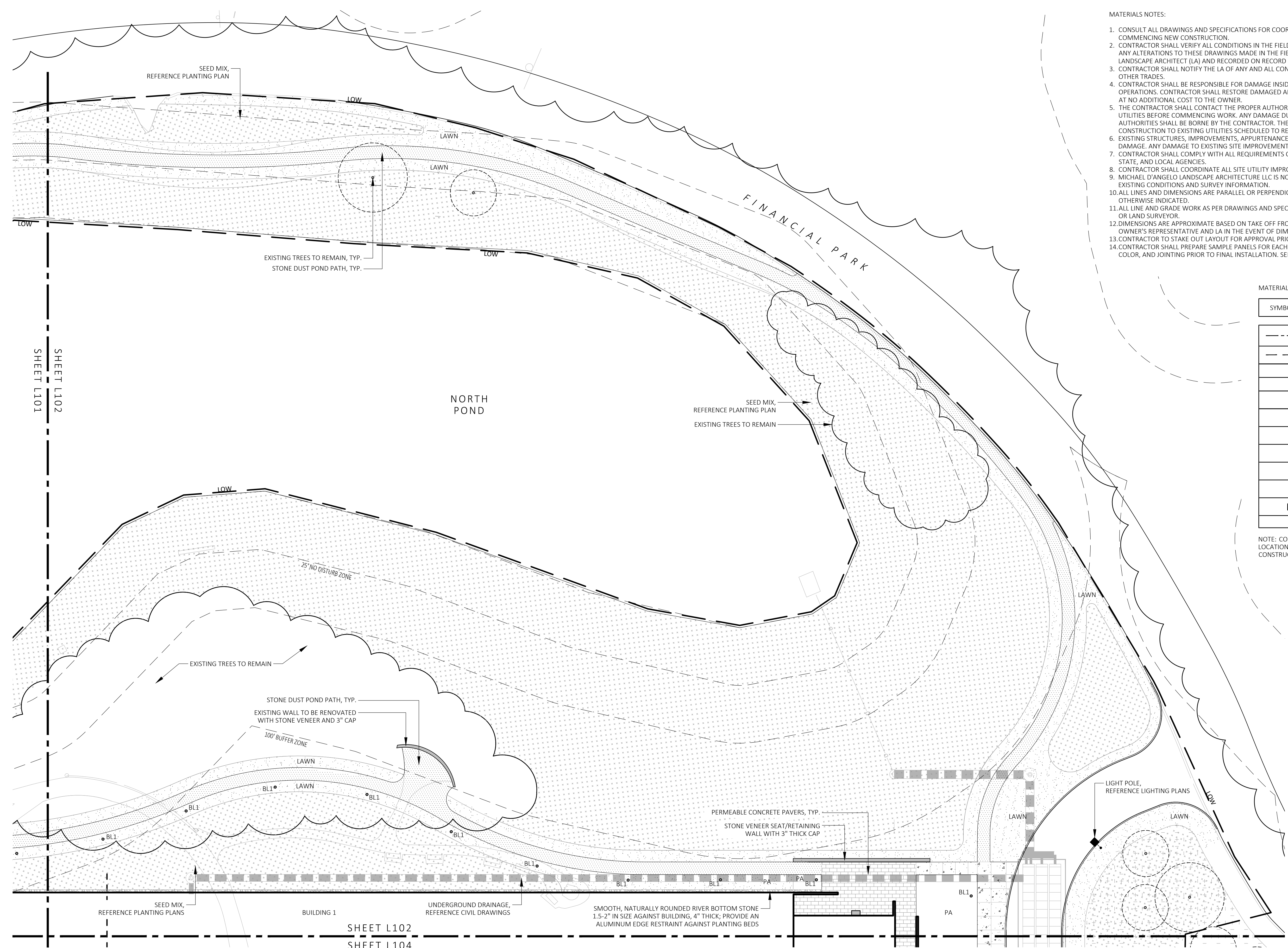
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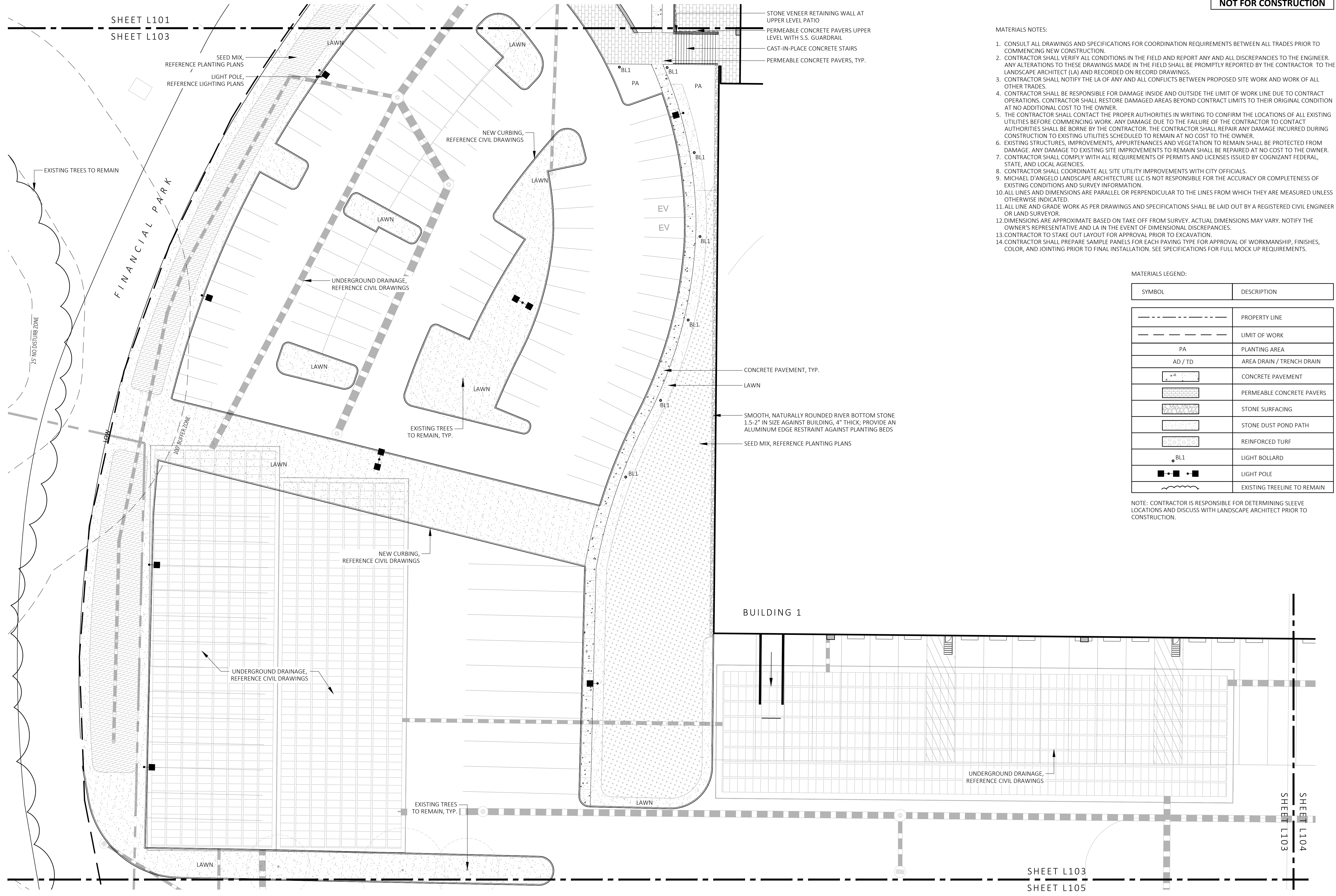


1 MATERIALS PLAN
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SHEET L102
SHEET L104

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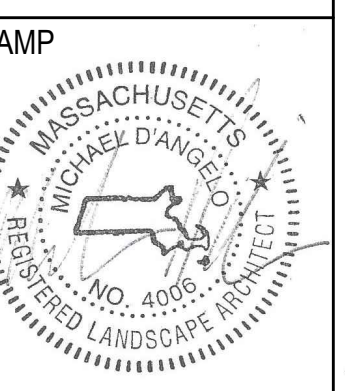
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MATERIALS PLAN

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1 MATERIALS PLAN
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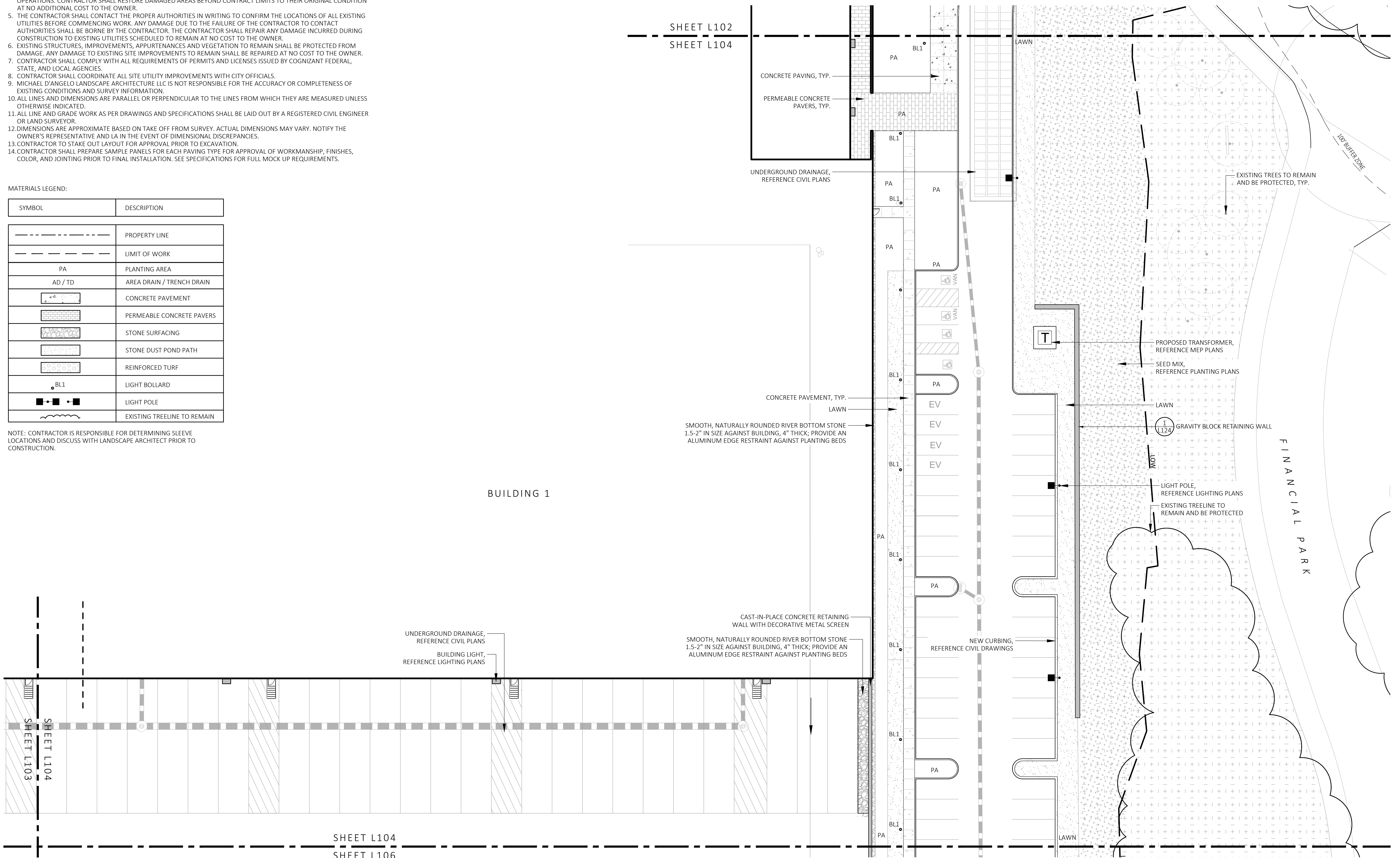
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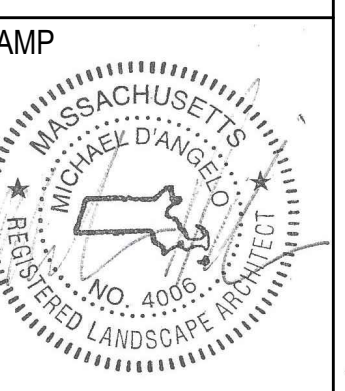
MATERIALS LEGEND:

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|----------|-----------------------------|
| --- | PROPERTY LINE |
| - - - - | LIMIT OF WORK |
| PA | PLANTING AREA |
| AD / TD | AREA DRAIN / TRENCH DRAIN |
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| [Symbol] | PERMEABLE CONCRETE PAVERS |
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| [Symbol] | LIGHT POLE |
| [Symbol] | EXISTING TREELINE TO REMAIN |

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1 MATERIALS PLAN
SCALE: 1" = 20'-0"



| REV. NO. | DATE | DESCRIPTION |
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| | 5/11/23 | FOR PERMIT |
| 1 | 7/17/23 | RESPONSE TO COMMENTS |
| 2 | 8/10/23 | RESPONSE TO COMMENTS |
| 3 | 8/25/23 | RESPONSE TO COMMENTS |

MATERIALS PLAN

| | |
|----------------------|-------------|
| DRAWN: NC | L104 |
| CHECKED: AS NOTED | |
| SCALE: AS NOTED | |
| DATE: 5/11/2023 | |
| | |

MATERIALS NOTES:

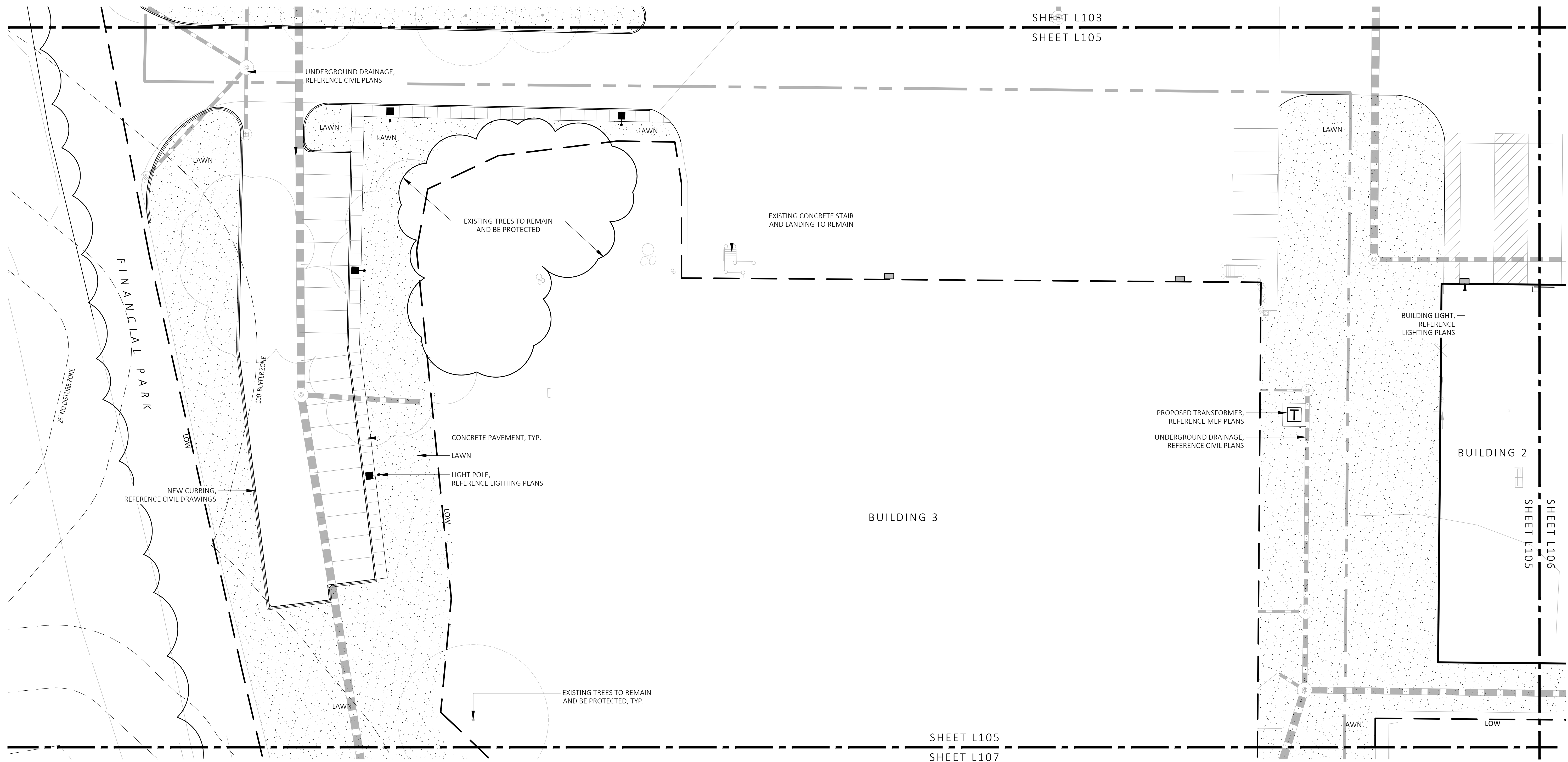
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FOR PERMIT ONLY
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1 MATERIALS PLAN
SCALE: 1" = 20'-0"



MDLA
MICHAEL D'ANGELO landscape architecture

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100 / 200 FINANCIAL PARK
FRANKLIN, MA

STAMP
MICHAEL D'ANGELO
REGISTERED LANDSCAPE ARCHITECT
NO. 4098

| REV. NO. | DATE | DESCRIPTION |
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| 3 | 8/23/23 | RESPONSE TO COMMENTS |

MATERIALS PLAN

DRAWN: NC
CHECKED: AS NOTED
SCALE: AS NOTED
DATE: 5/11/2023

L105

SHEET 6 OF 24
plot date: 8/25/2023

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NOT FOR CONSTRUCTION

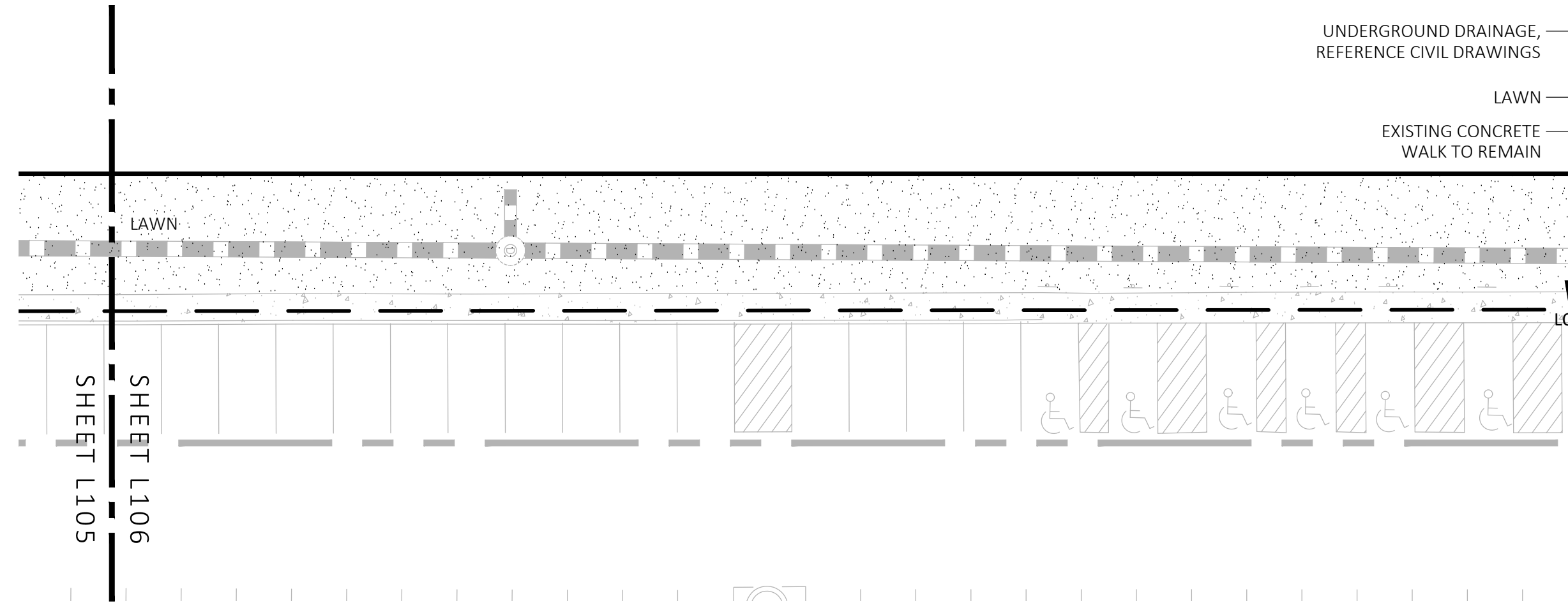
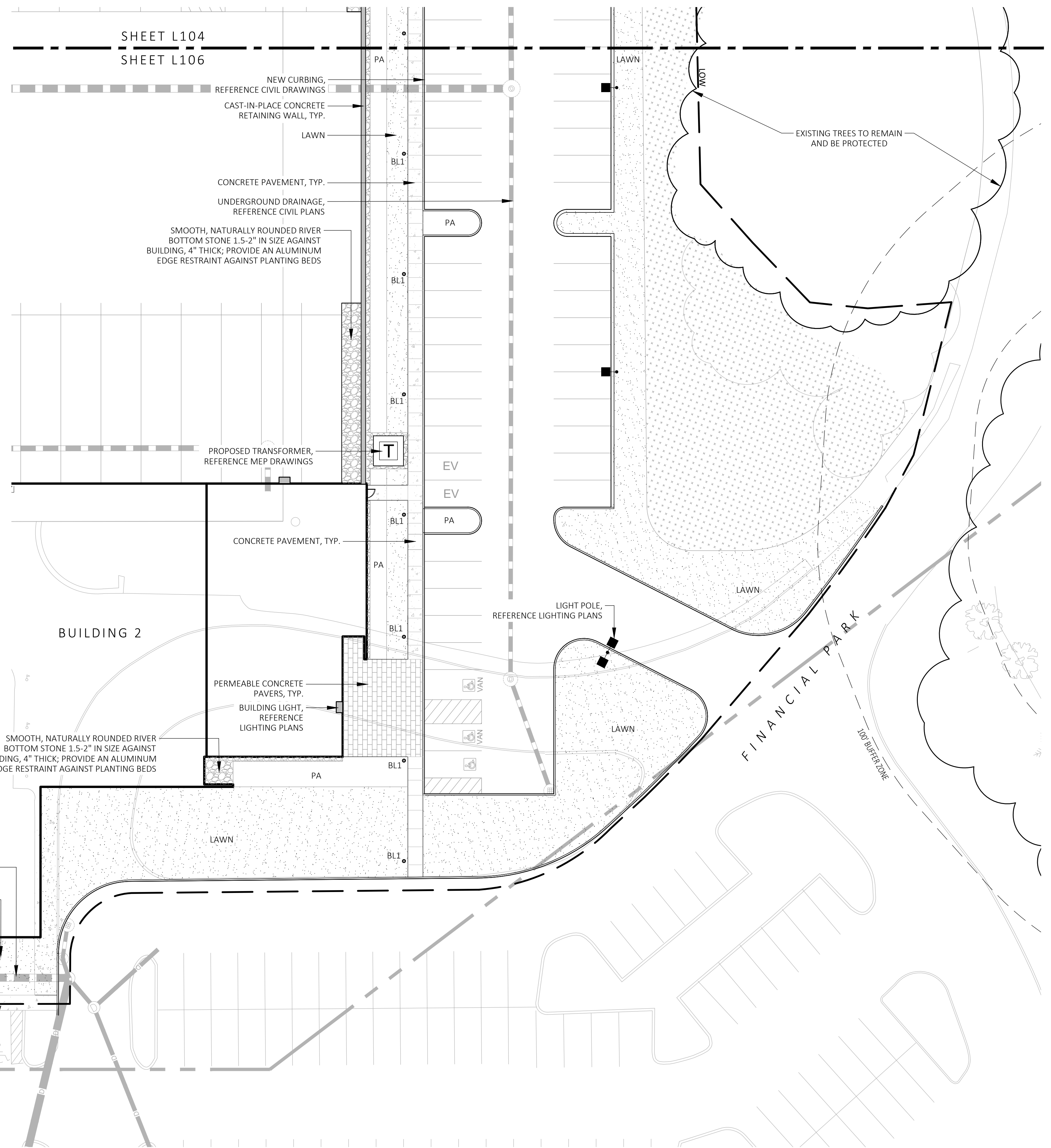
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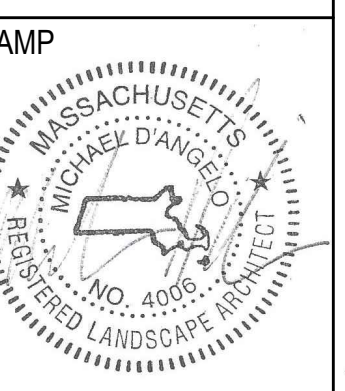
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SCALE: 1" = 20'-0"



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MATERIALS PLAN

| | |
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| DRAWN: NC | L106 |
| CHECKED: AS NOTED | |
| SCALE: AS NOTED | |
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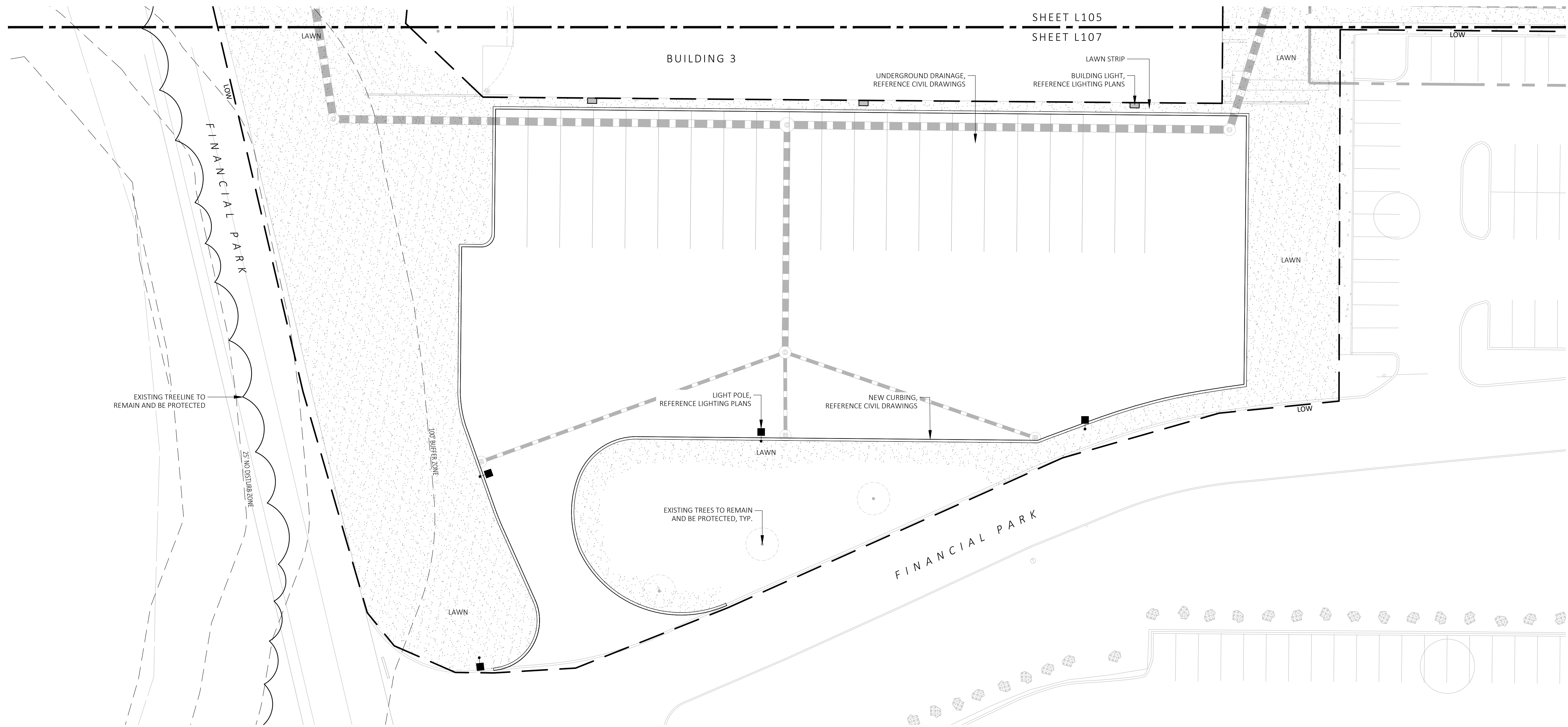
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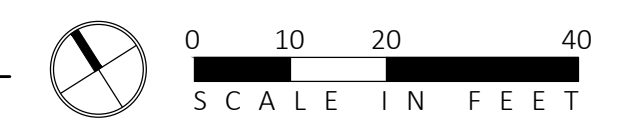
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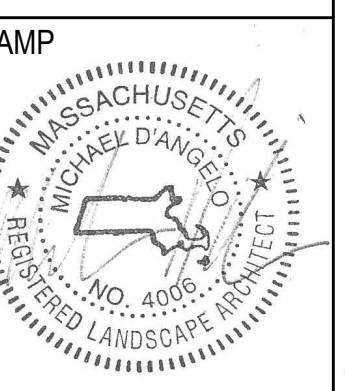


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MATERIALS PLAN

DRAWN: NC
CHECKED: AS NOTED
SCALE: L107
AS NOTED
DATE: 5/11/2023

SHEET 8 OF 24

| BIORETENTION PLANT SCHEDULE | | | | |
|-----------------------------|------|-------------------------|-------------------------|--|
| SYMBOL | QTY. | LATIN NAME | COMMON NAME | NOTES |
| TREES | | | | |
| NS | 2 | NYSSA SYLVATICA | BLACK GUM | TREE, SUN, MESIC-HYDRIC |
| QB | 2 | QUERCUS BICOLOR | SWAMP WHITE OAK | TREE, SUN/PARTIAL SUN, MESIC TO WET MESIC |
| QP | 3 | QUERCUS PALUSTRIS | PIN OAK | TREE, SUN, MESIC-HYDRIC |
| SHRUBS | | | | |
| CA | | CLETHRA ALNIFOLIA | SWEET PEPPERBUSH | SHRUB, SUN/PARTIAL SUN, MESIC TO WET MESIC |
| CS | | CORNUS SERICEA | RED OSIER DOGWOOD | SHRUB, SUN/SHADE, MESIC-HYDRIC |
| IG | | ILEX GLABRA | INKBERRY | SHRUB, SUN/PARTIAL SUN, MESIC TO WET MESIC |
| IV | | ILEX VERTICILLATA | WINTERBERRY | SHRUB, SUN/PARTIAL SUN, MESIC TO WET MESIC |
| LB | | LINDERA BENZOIN | SPICEBUSH | SHRUB, SUN, MESIC TO WET MESIC |
| VD | | VIBURNUM DENTATUM | ARROWWOOD | SHRUB, SUN, MESIC TO WET MESIC |
| GRASSES | | | | |
| AG | | ANDROPOGON VIRGINICUS | BROOMSEDE | GRASS, FULL SUN, WET MEADOW |
| DC | | DESCHAMPSIA CESPITOSA | TUFTED HAIRGRASS | GRASS, SUN, MESIC TO WET MESIC |
| HH | | HEDERA HELIX | ENGLISH IVY | EVERGREEN GROUNDCOVER, SUN, MESIC |
| LC | | LOTUS CORNICULATUS | BIRD'S-FOOT TREFOIL | GRASS, SUN, MESIC-XERIC |
| PV | | PANICUM VIRGATUM | SWITCH GRASS | GRASS, SUN/SHADE, MESIC |
| RL | | RUDBECKIA LACINIATA | GREEN-HEADED CONEFLOWER | GRASS, SUN/SHADE |
| SS | | SCHIZACHYRIUM SCOPARIUM | LITTLE BLUESTEM | GRASS, SUN/SHADE |

| PLANT SCHEDULE | | | | | |
|---|------|-----------------------------|--|--------------|--|
| SYMBOL | QTY. | LATIN NAME | COMMON NAME | SIZE | NOTES |
| TREES | | | | | |
| AR | 24 | ACER RUBRUM | RED MAPLE | 3"-3.5" CAL. | B&B, 6' CLEAR BRANCHING |
| AC | 5 | AMELANCHIER CANADENSIS | SHADBLow SERVICEBERRY | 8-10' HT | B&B, MULTI-STEM |
| BP | 10 | BETULA POPULIFOLIA | GRAY BIRCH | 3"-3.5" CAL. | B&B, MULTI-STEM |
| PS | 10 | PINUS STROBUS | EASTERN WHITE PINE | 3"-3.5" CAL. | B&B, 6' CLEAR BRANCHING |
| PSC | 17 | PRUNUS SEROTINA | BLACK CHERRY | 3"-3.5" CAL. | B&B, 6' CLEAR BRANCHING |
| PH | 16 | PLATANUS OCCIDENTALIS | AMERICAN SYCAMORE | 3"-3.5" CAL. | B&B, 6' CLEAR BRANCHING |
| TA | 16 | TILIA AMERICANA | BASSWOOD | 3"-3.5" CAL. | B&B, 6' CLEAR BRANCHING |
| SHRUBS & ORNAMENTAL GRASSES - TYPE A | | | | | |
| | | CLETHRA ALNIFOLIA | PEPPERBUSH | 5 GAL | 36" O.C. B&B |
| | | HYDRANGEA QUERCIFOLIA | OAK-LEAVED HYDRANGEA | 3"-3.5" TALL | 36" O.C. B&B |
| | | ILEX GLABRA | INKBERRY | 3"-3.5" TALL | 36" O.C. B&B |
| | | ILEX VERTICILLATA | COMMON WINTERBERRY | 3"-3.5" TALL | 36" O.C. B&B |
| | | KALMIA LATIFOLIA | MOUNTAIN LAUREL | 3" TALL | 36" O.C. B&B |
| | | RHUS AROMATICA | FRAGRANT SUMAC | 3"-3.5" TALL | 36" O.C. B&B |
| | | VIBURNUM DENTATUM | ARROWWOOD | 3"-3.5" TALL | 36" O.C. B&B |
| SHRUBS & ORNAMENTAL GRASSES - TYPE B | | | | | |
| | | COMPTONIA PEREGRINA | SWEET-FERN | 2 GAL | 24" O.C. CONTAINER |
| | | IRIS VERSICOLOR | BLUE FLAG IRIS | 2 GAL | 24" O.C. CONTAINER |
| | | PEROVSKIA ATRIPLICIFOLIA | RUSSIAN SAGE | 2.5'-3" TALL | 24" O.C. B&B |
| PERENNIALS | | | | | |
| | | CAREX PENNSYLVANICA | PENNSYLVANIA SEDGE | 1 GAL | 18" O.C. CONTAINER |
| | | ECHINACEA PURPUREA | PURPLE CONEFLOWER | 1 GAL | 18" O.C. CONTAINER |
| | | GERANIUM DALMATIUM | CRANESBILL | 1 GAL | 18" O.C. CONTAINER |
| SEED MIX | | | | | |
| | | ERNST SEEDS 800-873-3321 | ERNST MIX (ERNMX-181-1 & 181-2) NATIVE STEEP SLOPE MIX | 75 LB/ACRE | APPLY COVER CROP; FALL: GRAIN RYE, SPRING: OAT; SEE SPEC SHEET |
| | | ERNST SEEDS 800-873-3321 | ERNST MIX (ERNMX-180) RAIN GARDEN MIX | 20 LB/ACRE | APPLY COVER CROP OF GRAIN RYE; SEE SPEC SHEET |

ALL PROPOSED PLANTINGS COME FROM THE BEST DEVELOPMENT PRACTICES GUIDEBOOK (§185-31-C.(K))

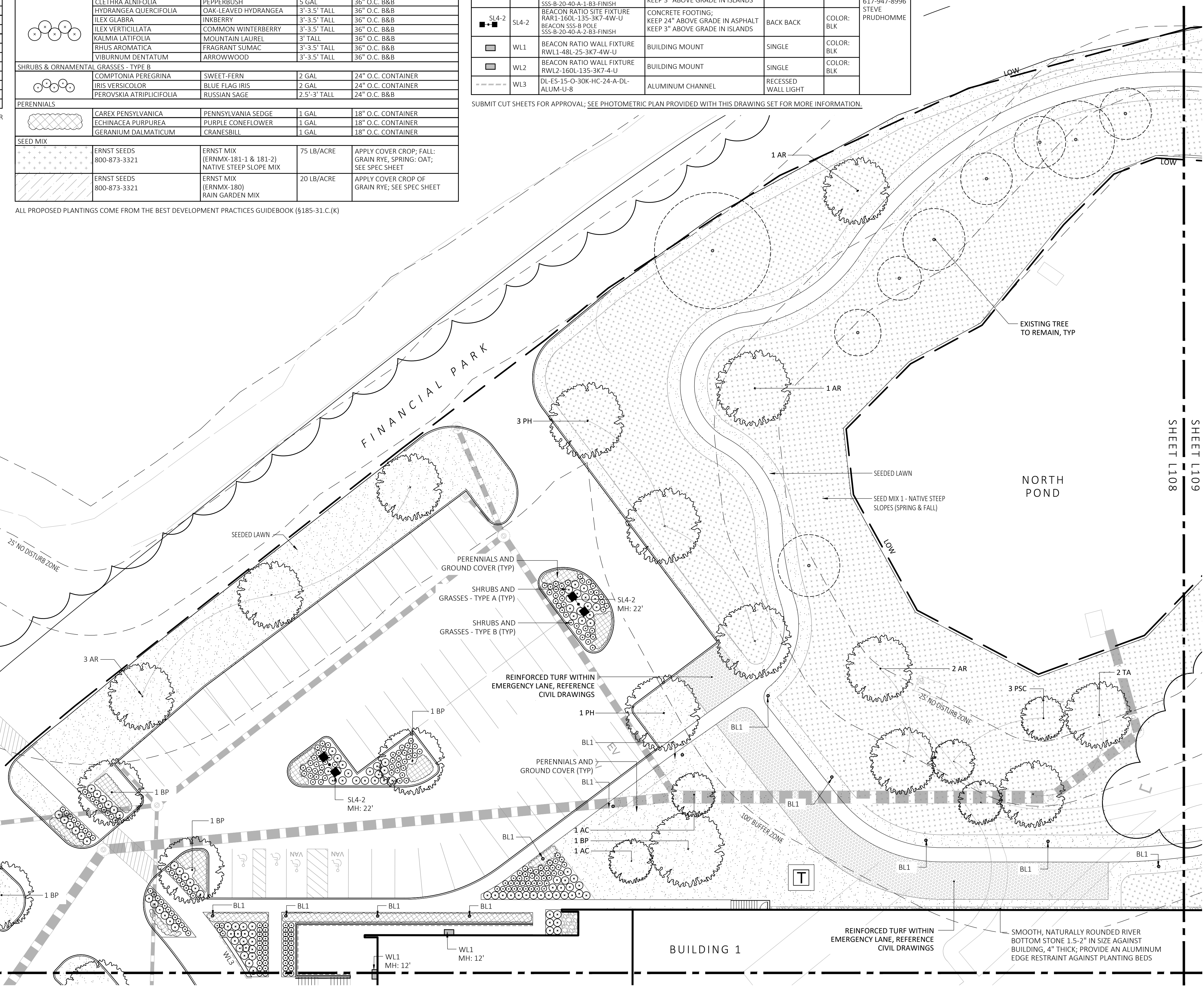
| LIGHT SCHEDULE | | | | | | |
|----------------|---|-------|--|------------------------|----------------|--|
| SYMBOL | LABEL | MODEL | MOUNT | ARRANGEMENT | OPTIONS | REP |
| BL1 | ARLUCE KLOU180 BOLLARD RWL1-48L-25-3K7-4W-U | | CONCRETE FOOTING; KEEP 3" ABOVE GRADE | PEDESTRIAN BOLLARD | COLOR: GRAY | |
| SL3 | BEACON RATIO SITE FIXTURE RARI-160L-135-3K7-3-U BEACON 555-B POLE 555-B-20-40-A-1-83-FINISH | | CONCRETE FOOTING; KEEP 24" ABOVE GRADE IN ASPHALT KEEP 3" ABOVE GRADE IN ISLANDS | SINGLE | COLOR: BLK | ILLUMINATE 617-947-8996 STEVE PRUDHOMME |
| SL4 | BEACON RATIO SITE FIXTURE RARI-160L-135-3K7-4W-U BEACON 555-B POLE 555-B-20-40-A-1-83-FINISH | | CONCRETE FOOTING; KEEP 24" ABOVE GRADE IN ASPHALT KEEP 3" ABOVE GRADE IN ISLANDS | SINGLE | COLOR: BLK | |
| SL4-2 | BEACON RATIO SITE FIXTURE RARI-160L-135-3K7-4W-U BEACON 555-B POLE 555-B-20-40-A-1-83-FINISH | | CONCRETE FOOTING; KEEP 24" ABOVE GRADE IN ASPHALT KEEP 3" ABOVE GRADE IN ISLANDS | BACK BACK | COLOR: BLK | |
| WL1 | BEACON RATIO WALL FIXTURE RWL1-48L-25-3K7-4W-U | | BUILDING MOUNT | SINGLE | COLOR: BLK | |
| WL2 | BEACON RATIO WALL FIXTURE RWL2-160L-135-3K7-4-U | | BUILDING MOUNT | SINGLE | COLOR: BLK | |
| WL3 | DL-ES-15-O-30K-HC-24-A-DL- ALUM-U-8 | | ALUMINUM CHANNEL | RECESSED WALL LIGHT | COLOR: BLK | |

SUBMIT CUT SHEETS FOR APPROVAL; SEE PHOTOMETRIC PLAN PROVIDED WITH THIS DRAWING SET FOR MORE INFORMATION.

FOR PERMIT ONLY
NOT FOR CONSTRUCTION

- PLANTING:**
- DURING CONSTRUCTION, PROTECT ALL EXISTING SITE FEATURES, STRUCTURES AND UTILITIES.
 - PLANTS SHALL BE TRUE TO SPECIES AND VARIETY SPECIFIED AND NURSERY GROWN IN ACCORDANCE WITH THE AMERICAN STANDARD FOR NURSERY STOCK UNDER CLIMATIC CONDITIONS SIMILAR TO THOSE IN THE LOCALITY OF THE PROJECT. SUBSTITUTIONS WILL BE PERMITTED ONLY IF APPROVED BY THE LANDSCAPE ARCHITECT.
 - LANDSCAPE ARCHITECT APPROVAL IS REQUIRED BEFORE PLANT MATERIAL IS PURCHASED. LANDSCAPE ARCHITECT RESERVES THE RIGHT TO SEE ALL MATERIAL IN PERSON AT THE NURSERY. IF TRAVEL OUTSIDE OF MA IS REQUIRED, LANDSCAPE ARCHITECT'S TRAVEL COSTS SHALL BE PAID FOR BY THE CONTRACTOR.
 - ALL EXPOSED BURLAP, WIRE BASKETS AND OTHER MATERIALS ATTACHED TO PLANTS SHALL BE REMOVED PRIOR TO PLANTING. CARE SHALL BE TAKEN NOT TO DISTURB THE ROOT BALL OF PLANTS.
 - THOROUGHLY WATER ALL PLANTS IMMEDIATELY AFTER PLANTING.
 - WHERE DISCREPANCIES IN QUANTITIES OCCUR, DRAWINGS SUPERCEDE PLANT NOTES AND SCHEDULE.
 - TRANSPLANTING SHALL BE DONE IN ACCORDANCE WITH THE AMERICAN STANDARD FOR NURSERY STOCK.
 - LOAM USED IN PLANT BEDS SHALL BE UNIFORM IN COMPOSITION, FREE FROM SUBSOIL, STONES LARGER THAN 1", NOXIOUS SEEDS AND SUITABLE FOR THE SUPPORT OF VEGETATIVE GROWTH. THE pH VALUE SHALL BE BETWEEN 5.5 AND 6.5.
 - MULCH IN TREE AND SHRUB BEDS SHALL BE NATURAL, NATIVE HEMLOCK MULCH FREE OF GROWTH OR GERMINATION INHIBITING INGREDIENTS. SUBMIT SAMPLES FOR APPROVAL.
 - LOCATIONS FOR PLANTS AND/OR OUTLINE OF AREAS TO BE PLANTED ARE TO BE STAKED OUT AT THE SITE FOR APPROVAL BY THE LANDSCAPE ARCHITECT.
 - SOIL DEPTHS: a.) SHRUBS AND PERENNIAL BEDS: 18" MIN.; b.) GROUND COVER: 6" MIN.; c.) TREES: SEE DETAIL; d.) SOD/SEED: 6" MIN.
 - PROVIDE A SUBSURFACE ROOTBALL ANCHOR BY PLATIPUS EARTH ANCHORS, SIZE FOR CALIPER

- GENERAL IRRIGATION NOTES:**
- THE DESIGN/BUILD IRRIGATION SUB-CONTRACTOR SHALL PROVIDE A COMPLETE SYSTEM FOR THE IRRIGATION AREAS SHOWN ON THE PLAN, WHICH INCLUDES NEW AND EXISTING TRANSPLANTED PLANT MATERIALS. CONTRACTOR SHALL SUBMIT SHOP DRAWINGS FOR FINAL LAYOUT OF IRRIGATION SHOWING LOCATIONS AND SIZES OF MAIN LINES AND LATERAL LINES, ZONES, RAIN AND SOIL SENSORS, AND CUT SHEETS FOR CONTROLLER SYSTEM AND COMPONENTS. INCLUDE ANY NECESSARY SLEEVING ON A DIAGRAM.
 - IRRIGATION TO BE COORDINATED WITH GENERAL CONTRACTOR TO LOCATE THE NECESSARY PVC SLEEVING TO COMPLETE IRRIGATION PROGRAM.
 - IRRIGATION CONTRACTOR SHALL VERIFY PSI/GPM REQUIREMENTS AT THE SITE BEFORE STARTING CONSTRUCTION.
 - TREES SHOULD BE ON A SEPARATE ZONE.
 - ALL TREES, SHRUBS, PERENNIALS, ORNAMENTAL GRASSES, AND GROUND COVER SHALL BE DRIP IRRIGATED. CONTRACTOR SHALL BE AWARE THAT THE IRRIGATION SYSTEM SHALL BE ROUTED TO THE PYLON SIGN PLANTER AND PLANTERS AT THE BUILDING.
 - ALL LAWN AREAS SHALL BE SPRAY HEAD IRRIGATED. THE HEADS SHALL BE LOCATED FOR HEAD TO HEAD COVERAGE WITH ABSOLUTELY NO OVER SPRAY ONTO THE PAVEMENT.
 - INSTALL DRIP TUBING, .6GPH, 12" CENTERS, STAKED EVERY TURN OR EVERY 4'
 - THE CONTRACTOR SHALL BE EXTREMELY CAREFUL DURING THE INSTALLATION PROCESS NOT TO DISTURB NEW OR EXISTING PLANT MATERIALS. THE CONTRACTOR IS TO COORDINATE HIS WORK WITH OTHER SUB-CONTRACTORS.
 - THE IRRIGATION CONTRACTOR SHALL CONFORM TO ANY LOCAL CODES OR ORDINANCES THAT MAY BE REQUIRED TO COMPLETE THE WORK.
 - WATER SUPPLY AND CONTROLLER: COORDINATE CONNECTION TO WATER SUPPLY WITH GENERAL CONTRACTOR. COORDINATE CONTROLLER LOCATION WITH GENERAL CONTRACTOR.
 - MFP CONTRACTOR TO PROVIDE BACK FLOW PREVENTION.
 - THE IRRIGATION CONTRACTOR SHALL TEST WATER SOURCE FOR WATER QUALITY INCLUDING MINERALS THAT MAY CAUSE STAINING OF CONCRETE AND PAVING SURFACES.
 - INSTALLER SHALL INSTALL MOISTURE SENSORS. CONTRACTOR SHALL INSTALL PER MANUFACTURER'S SPECIFICATIONS AND SHALL BE RESPONSIBLE TO PROGRAM RELATED HYDROZONES TO RESPECTIVE SOIL MOISTURE SENSORS. PROVIDE ONE FOR EACH IRRIGATION ZONE WITH AUTOMATIC SHUT-OFF ONCE MOISTURE REQUIREMENTS ARE MET.



SHEET L108
SHEET L110

1 PLANTING & LIGHTING PLAN
SCALE: 1" = 20'-0"



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MICHAEL D'ANGELO
LANDSCAPE ARCHITECTURE LLC

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MICHAEL D'ANGELO
LANDSCAPE ARCHITECT
NO. 4098
REGISTERED LANDSCAPE ARCHITECT

| REV. NO. | DATE | DESCRIPTION |
|----------|---------|----------------------|
| 1 | 5/11/23 | FOR PERMIT |
| 2 | 7/17/23 | RESPONSE TO COMMENTS |
| 3 | 8/10/23 | RESPONSE TO COMMENTS |
| 4 | 8/23/23 | RESPONSE TO COMMENTS |

PLANTING & LIGHTING PLAN

DRAWN:
NC
CHECKED:
AS NOTED
SCALE:
AS NOTED
DATE:
5/11/2023

L108

SHEET 9 OF 24
plot date: 8/25/2023

FOR PERMIT ONLY
NOT FOR CONSTRUCTION

| LIGHT SCHEDULE | | | | | |
|----------------|-------|---|--|------------------------|----------------|
| SYMBOL | LABEL | MODEL | MOUNT | ARRANGEMENT | OPTIONS REP |
| ○ | BL1 | ARLUCE KLOU180 BOLLARD RWL1-48L-25-3K7-4W-U | CONCRETE FOOTING; KEEP 3" ABOVE GRADE | PEDESTRIAN BOLLARD | COLOR: GRAY |
| ■ | SL3 | BEACON RATIO SITE FIXTURE RAR1-160L-135-3K7-3-U BEACON 555-B POLE 555-B-20-40-A-1-B3-FINISH | CONCRETE FOOTING; KEEP 24" ABOVE GRADE IN ASPHALT KEEP 3" ABOVE GRADE IN ISLANDS | SINGLE | COLOR: BLK |
| ■ | SL4 | BEACON RATIO SITE FIXTURE RAR1-160L-135-3K7-4W-U BEACON 555-B POLE 555-B-20-40-A-1-B3-FINISH | CONCRETE FOOTING; KEEP 24" ABOVE GRADE IN ASPHALT KEEP 3" ABOVE GRADE IN ISLANDS | SINGLE | COLOR: BLK |
| ■ | SL4-2 | BEACON RATIO SITE FIXTURE RAR1-160L-135-3K7-4W-U BEACON 555-B POLE 555-B-20-40-A-2-B3-FINISH | CONCRETE FOOTING; KEEP 24" ABOVE GRADE IN ASPHALT KEEP 3" ABOVE GRADE IN ISLANDS | BACK BACK | COLOR: BLK |
| ■ | WL1 | BEACON RATIO WALL FIXTURE RWL1-48L-25-3K7-4W-U | BUILDING MOUNT | SINGLE | COLOR: BLK |
| ■ | WL2 | BEACON RATIO WALL FIXTURE RWL2-160L-135-3K7-4-U | BUILDING MOUNT | SINGLE | COLOR: BLK |
| --- | WL3 | DL-ES-15-O-30K-HC-24-A-DL- ALUM-U-8 | ALUMINUM CHANNEL | RECESSED WALL LIGHT | |

SUBMIT CUT SHEETS FOR APPROVAL; SEE PHOTOMETRIC PLAN PROVIDED WITH THIS DRAWING SET FOR MORE INFORMATION.

| PLANT SCHEDULE | | | | | |
|---|------|-----------------------------|--|--------------|--|
| SYMBOL | QTY. | LATIN NAME | COMMON NAME | SIZE | NOTES |
| TREES | | | | | |
| AR | 24 | ACER RUBRUM | RED MAPLE | 3"-3.5" CAL. | B&B, 6' CLEAR BRANCHING |
| AC | 5 | AMELANCHIER CANADENSIS | SHADBLOW SERVICEBERRY | 8-10' HT | B&B, MULTI-STEM |
| BP | 10 | BETULA POPULIFOLIA | GRAY BIRCH | 3"-3.5" CAL. | B&B, MULTI-STEM |
| PS | 10 | PINUS STROBUS | EASTERN WHITE PINE | 3"-3.5" CAL. | B&B, 6' CLEAR BRANCHING |
| PSC | 17 | PRUNUS SEROTINA | BLACK CHERRY | 3"-3.5" CAL. | B&B, 6' CLEAR BRANCHING |
| PH | 16 | PLATANUS OCCIDENTALIS | AMERICAN SYCAMORE | 3"-3.5" CAL. | B&B, 6' CLEAR BRANCHING |
| TA | 16 | TILIA AMERICANA | BASSWOOD | 3"-3.5" CAL. | B&B, 6' CLEAR BRANCHING |
| SHRUBS & ORNAMENTAL GRASSES - TYPE A | | | | | |
| | | CLETHRA ALNIFOLIA | PEPPERBUSH | 5 GAL | 36" O.C. B&B |
| | | HYDRANGEA QUERCIFOLIA | OAK-LEAVED HYDRANGEA | 3"-3.5" TALL | 36" O.C. B&B |
| | | ILEX GLABRA | INKBERRY | 3"-3.5" TALL | 36" O.C. B&B |
| | | ILEX VERTICILLATA | COMMON WINTERBERRY | 3"-3.5" TALL | 36" O.C. B&B |
| | | KALMIA LATIFOLIA | MOUNTAIN LAUREL | 3" TALL | 36" O.C. B&B |
| | | RHUS AROMATICA | FRAGRANT SUMAC | 3"-3.5" TALL | 36" O.C. B&B |
| | | VIBURNUM DENTATUM | ARROWWOOD | 3"-3.5" TALL | 36" O.C. B&B |
| SHRUBS & ORNAMENTAL GRASSES - TYPE B | | | | | |
| | | COMPTONIA PEREGRINA | SWEET-FERN | 2 GAL | 24" O.C. CONTAINER |
| | | IRIS VERSICOLOR | BLUE FLAG IRIS | 2 GAL | 24" O.C. CONTAINER |
| | | PEROVSKIA ATRIPLICIFOLIA | RUSSIAN SAGE | 2.5"-3" TALL | 24" O.C. B&B |
| PERENNIALS | | | | | |
| | | CAREX PENNSYLVANICA | PENNSYLVANIA SEDGE | 1 GAL | 18" O.C. CONTAINER |
| | | ECHINACEA PURPUREA | PURPLE CONEFLOWER | 1 GAL | 18" O.C. CONTAINER |
| | | GERANIUM DALMATIUM | CRANESBILL | 1 GAL | 18" O.C. CONTAINER |
| SEED MIX | | | | | |
| | | ERNST SEEDS 800-873-3321 | ERNST MIX (ERNMX-181-1 & 181-2) NATIVE STEEP SLOPE MIX | 75 LB/ACRE | APPLY COVER CROP: FALL; GRAIN RYE, SPRING; OAT; SEE SPEC SHEET |
| | | ERNST SEEDS 800-873-3321 | ERNST MIX (ERNMX-180) RAIN GARDEN MIX | 20 LB/ACRE | APPLY COVER CROP OF GRAIN RYE; SEE SPEC SHEET |

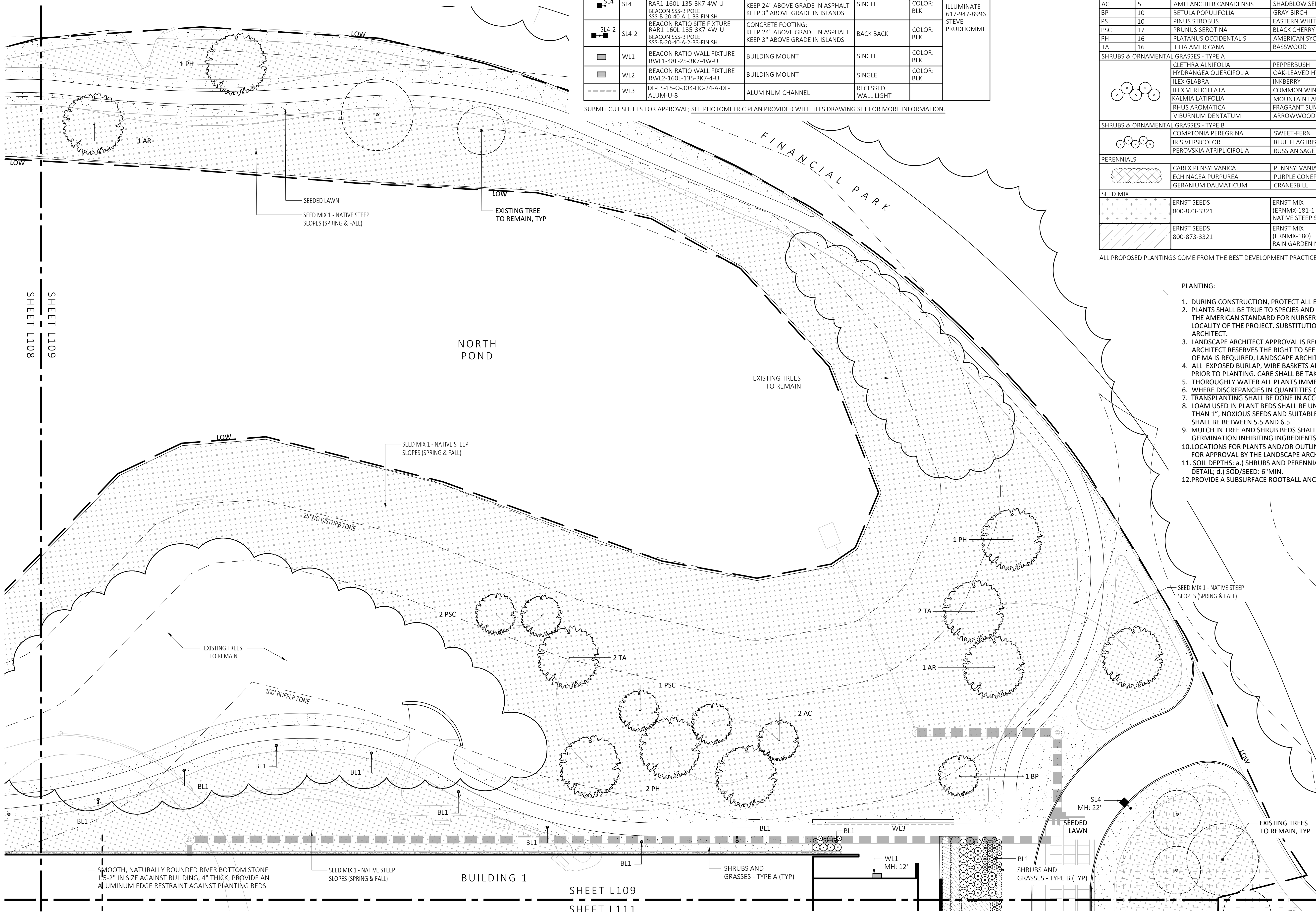
ALL PROPOSED PLANTINGS COME FROM THE BEST DEVELOPMENT PRACTICES GUIDEBOOK (§185-31.1.C.(K))

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- SOIL DEPTHS: a.) SHRUBS AND PERENNIAL BEDS: 18" MIN.; b.) GROUND COVER: 6" MIN.; c.) TREES: SEE DETAIL; d.) SOD/SEED: 6" MIN.
- PROVIDE A SUBSURFACE ROOTBALL ANCHOR BY PLATYPUS EARTH ANCHORS, SIZE FOR CALIPER

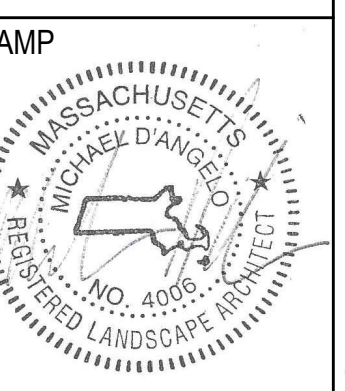
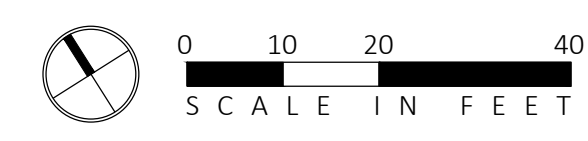
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- INSTALL DRIP TUBING, .6GPH, 12" CENTERS, STAKED EVERY TURN OR EVERY 4'
- THE CONTRACTOR SHALL BE EXTREMELY CAREFUL DURING THE INSTALLATION PROCESS NOT TO DISTURB NEW OR EXISTING PLANT MATERIALS. THE CONTRACTOR IS TO COORDINATE HIS WORK WITH OTHER SUB-CONTRACTORS.
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- WATER SUPPLY AND CONTROLLER: COORDINATE CONNECTION TO WATER SUPPLY WITH GENERAL CONTRACTOR. COORDINATE CONTROLLER LOCATION WITH GENERAL CONTRACTOR.
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- THE IRRIGATION CONTRACTOR SHALL TEST WATER SOURCE FOR WATER QUALITY INCLUDING MINERALS THAT MAY CAUSE STAINING OF CONCRETE AND PAVING SURFACES.
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SHEET L108
SHEET L109

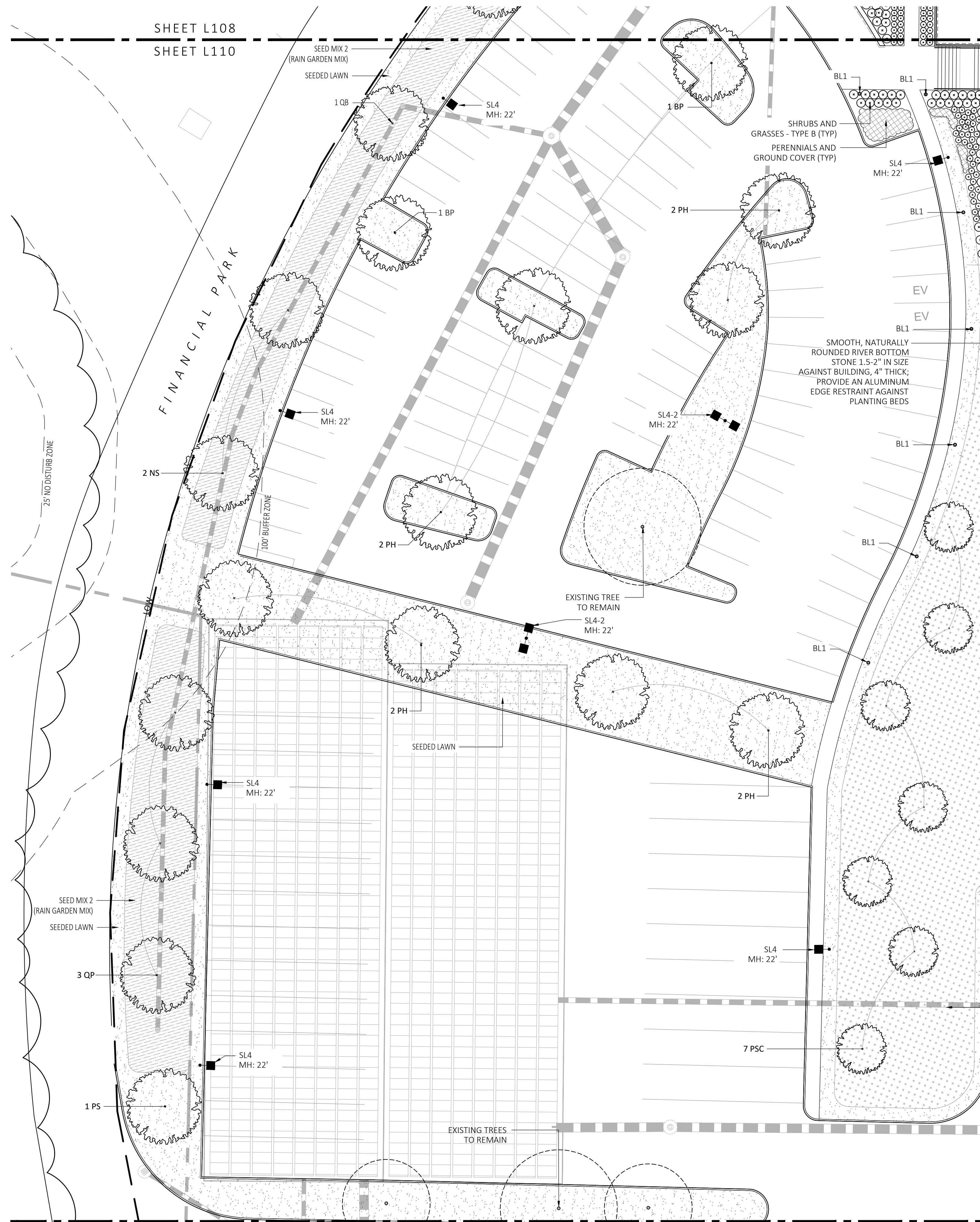
1 PLANTING & LIGHTING PLAN
SCALE: 1" = 20'-0"



| REV. NO. | DATE | DESCRIPTION |
|----------|---------|----------------------|
| | 5/11/23 | FOR PERMIT |
| 1 | 7/17/23 | RESPONSE TO COMMENTS |
| 2 | 8/10/23 | RESPONSE TO COMMENTS |
| 3 | 8/23/23 | RESPONSE TO COMMENTS |

PLANTING & LIGHTING PLAN

DRAWN: NC
CHECKED: AS NOTED
SCALE: L109
AS NOTED
DATE: 5/11/2023



| SYMBOL | QTY. | LATIN NAME | COMMON NAME | SIZE | NOTES |
|-----------------------|------|------------------------|-----------------------|--------------|-------------------------|
| PLANT SCHEDULE | | | | | |
| TREES | | | | | |
| AR | 24 | ACER RUBRUM | RED MAPLE | 3"-3.5" CAL. | B&B, 6' CLEAR BRANCHING |
| AC | 5 | AMELANCHIER CANADENSIS | SHADBLOW SERVICEBERRY | 8-10" HT | B&B, MULTI-STEM |
| BP | 10 | BETULA POPULIFOLIA | GRAY BIRCH | 3"-3.5" CAL. | B&B, MULTI-STEM |
| PS | 10 | PINUS STROBUS | EASTERN WHITE PINE | 3"-3.5" CAL. | B&B, 6' CLEAR BRANCHING |
| PSC | 17 | PRUNUS SEROTINA | BLACK CHERRY | 3"-3.5" CAL. | B&B, 6' CLEAR BRANCHING |
| PH | 16 | PLATANUS OCCIDENTALIS | AMERICAN SYCAMORE | 3"-3.5" CAL. | B&B, 6' CLEAR BRANCHING |
| TA | 16 | TILIA AMERICANA | BASSWOOD | 3"-3.5" CAL. | B&B, 6' CLEAR BRANCHING |

| SYMBOL | QTY. | LATIN NAME | COMMON NAME | SIZE | NOTES |
|---|------|--------------------------|--|--------------|--|
| SHRUBS & ORNAMENTAL GRASSES - TYPE A | | | | | |
| | | CLETHRA ALNIFOLIA | PEPPERBUSH | 5 GAL | 36" O.C. B&B |
| | | HYDRANGEA QUERCIFOLIA | OAK-LEAVED HYDRANGEA | 3"-3.5" TALL | 36" O.C. B&B |
| | | ILEX GLABRA | INKBERRY | 3"-3.5" TALL | 36" O.C. B&B |
| | | ILEX VERTICILLATA | COMMON WINTERBERRY | 3"-3.5" TALL | 36" O.C. B&B |
| | | KALMIA LATIFOLIA | MOUNTAIN LAUREL | 3' TALL | 36" O.C. B&B |
| | | RHUS AROMATICA | FRAGRANT SUMAC | 3"-3.5" TALL | 36" O.C. B&B |
| | | VIBURNUM DENTATUM | ARROWWOOD | 3"-3.5" TALL | 36" O.C. B&B |
| SHRUBS & ORNAMENTAL GRASSES - TYPE B | | | | | |
| | | COMPTONIA PEREGRINA | SWEET-FERN | 2 GAL | 24" O.C. CONTAINER |
| | | IRIS VERSICOLOR | BLUE FLAG IRIS | 2 GAL | 24" O.C. CONTAINER |
| | | PEROVSKIA ATRIPLICIFOLIA | RUSSIAN SAGE | 2.5"-3" TALL | 24" O.C. B&B |
| PERENNIALS | | | | | |
| | | CAREX PENNSYLVANICA | PENNSYLVANIA SEDGE | 1 GAL | 18" O.C. CONTAINER |
| | | ECHINACEA PURPUREA | PURPLE CONEFLOWER | 1 GAL | 18" O.C. CONTAINER |
| | | GERANIUM DALMATIUM | CRANESBILL | 1 GAL | 18" O.C. CONTAINER |
| SEED MIX | | | | | |
| | | ERNST SEEDS 800-873-3321 | ERNST MIX (ERNMX-181-1 & 181-2) NATIVE STEEP SLOPE MIX | 75 LB/ACRE | APPLY COVER CROP; FALL: GRAIN RYE, SPRING: OAT; SEE SPEC SHEET |
| | | ERNST SEEDS 800-873-3321 | ERNST MIX (ERNMX-180) RAIN GARDEN MIX | 20 LB/ACRE | APPLY COVER CROP OF GRAIN RYE; SEE SPEC SHEET |

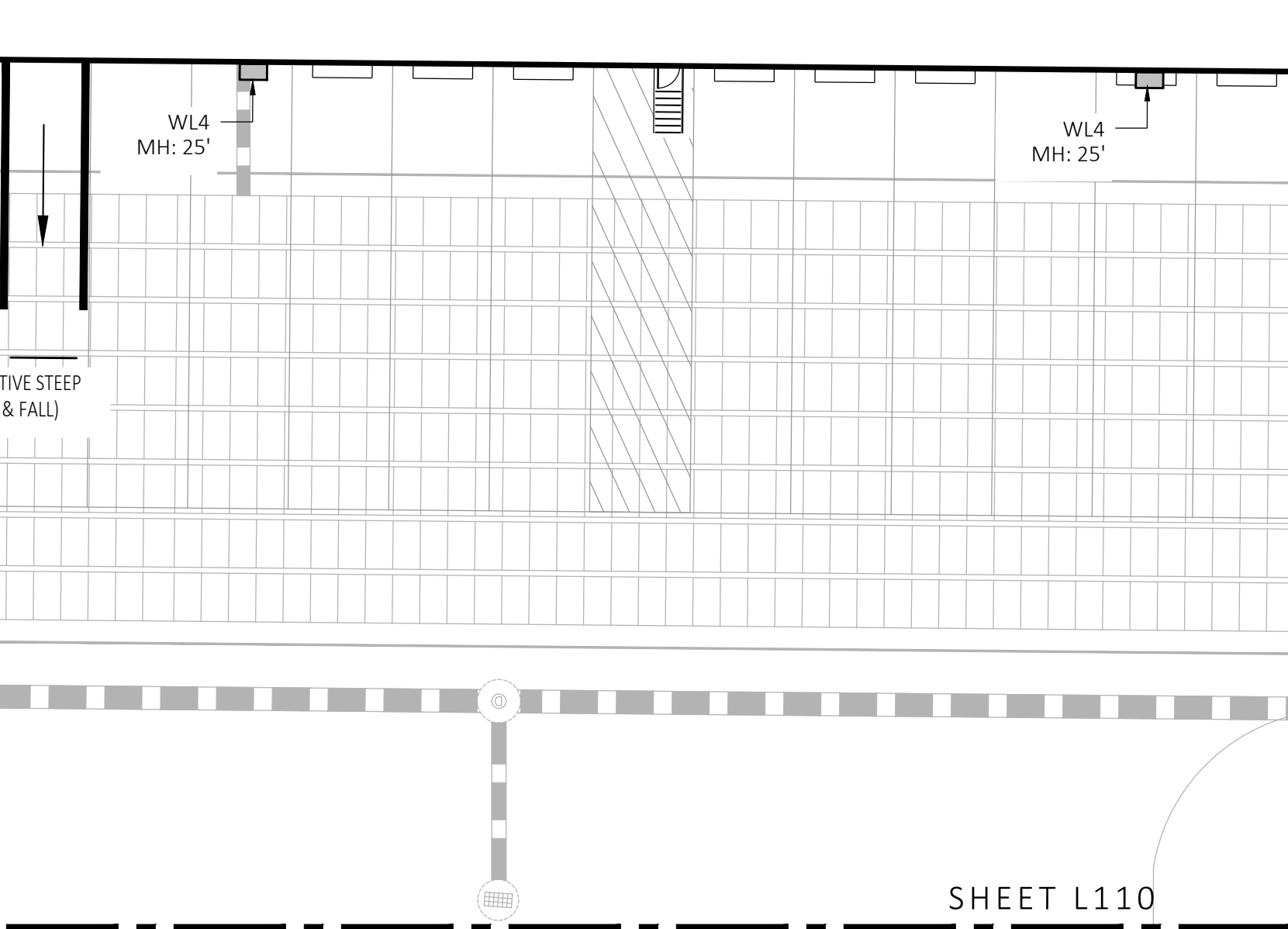
ALL PROPOSED PLANTINGS COME FROM THE BEST DEVELOPMENT PRACTICES GUIDEBOOK (\$185-31-C.K.)

| SYMBOL | QTY. | LATIN NAME | COMMON NAME | NOTES |
|------------------------------------|------|-------------------------|-------------------------|--|
| BIORETENTION PLANT SCHEDULE | | | | |
| TREES | | | | |
| NS | 2 | NYSSA SYLVATICA | BLACK GUM | TREE, SUN, MESIC-HYDRIC |
| QB | 2 | QUERCUS BICOLOR | SWAMP WHITE OAK | TREE, SUN/PARTIAL SUN, MESIC TO WET MESIC |
| QP | 3 | QUERCUS PALUSTRIS | PIN OAK | TREE, SUN, MESIC-HYDRIC |
| SHRUBS | | | | |
| CA | | CLETHRA ALNIFOLIA | SWEET PEPPERBUSH | SHRUB, SUN/PARTIAL SUN, MESIC TO WET MESIC |
| CS | | CORNUS SERICEA | RED OSIER DOGWOOD | SHRUB, SUN/SHADE, MESIC-HYDRIC |
| IG | | ILEX GLABRA | INKBERRY | SHRUB, SUN/PARTIAL SUN, MESIC TO WET MESIC |
| IV | | ILEX VERTICILLATA | WINTERBERRY | SHRUB, SUN/PARTIAL SUN, MESIC TO WET MESIC |
| LB | | LINDERA BENZOIN | SPICEBUSH | SHRUB, SUN, MESIC TO WET MESIC |
| VD | | VIBURNUM DENTATUM | ARROWWOOD | SHRUB, SUN, MESIC TO WET MESIC |
| GRASSES | | | | |
| AG | | ANDROPOGON VIRGINICUS | BROOMSEDGE | GRASS, FULL SUN, WET MEADOW |
| DC | | DESCHAMPSIA CESPITOSA | TUFTED HAIRGRASS | GRASS, SUN, MESIC TO WET MESIC |
| HC | | HEDERA HELIX | ENGLISH IVY | EVERGREEN GROUNDCOVER, SUN, MESIC |
| LL | | LOTUS CORNICULATUS | BIRD'S-FOOT TREFLOID | GRASS, SUN, MESIC-XERIC |
| PV | | PANICUM VIRGATUM | SWITCH GRASS | GRASS, SUN/SHADE, MESIC |
| RL | | RUDBECKIA LACINIATA | GREEN-HEADED CONEFLOWER | GRASS, SUN/SHADE |
| SS | | SCHIZACHYRIUM SCOPARIUM | LITTLE BLUESTEM | GRASS, SUN/SHADE |

ALL PROPOSED PLANTINGS FROM VOLUME 2, CHAPTER 2: STRUCTURAL BMP SPECIFICATIONS FOR THE MASSACHUSETTS STORMWATER HANDBOOK - PLANT SPECIES SUITABLE FOR USE IN BIORETENTION - HERBACEOUS SPECIES

| SYMBOL | LABEL | MODEL | MOUNT | ARRANGEMENT | OPTIONS | REP |
|--------|-------|---|--|---------------------|-------------|---|
| BL1 | | ARCLUCE KLOU180 BOLLARD RWL1-48L-25-3K7-4W-U | CONCRETE FOOTING; KEEP 3" ABOVE GRADE | PEDESTRIAN BOLLARD | COLOR: GRAY | |
| SL3 | | BEACON RATIO SITE FIXTURE RAR1-160L-135-3K7-3-U BEACON SSS-B POLE SSS-B-20-40A-1-B3-FINISH | CONCRETE FOOTING; KEEP 24" ABOVE GRADE IN ASPHALT KEEP 3" ABOVE GRADE IN ISLANDS | SINGLE | COLOR: BLK | |
| SL4 | | BEACON RATIO SITE FIXTURE RAR1-160L-135-3K7-4W-U BEACON SSS-B POLE SSS-B-20-40A-1-B3-FINISH | CONCRETE FOOTING; KEEP 24" ABOVE GRADE IN ASPHALT KEEP 3" ABOVE GRADE IN ISLANDS | SINGLE | COLOR: BLK | ILLUMINATE 617-947-8996 STEVE PRUDHOMME |
| SL4-2 | | BEACON RATIO SITE FIXTURE RAR1-160L-135-3K7-4W-U BEACON SSS-B POLE SSS-B-20-40A-2-B3-FINISH | CONCRETE FOOTING; KEEP 24" ABOVE GRADE IN ASPHALT KEEP 3" ABOVE GRADE IN ISLANDS | BACK BACK | COLOR: BLK | |
| WL1 | | BEACON RATIO WALL FIXTURE RWL1-48L-25-3K7-4W-U | BUILDING MOUNT | SINGLE | COLOR: BLK | |
| WL2 | | BEACON RATIO WALL FIXTURE RWL2-160L-135-3K7-4-U | BUILDING MOUNT | SINGLE | COLOR: BLK | |
| WL3 | | DL-ES-15-O-30K-HC-24-A-DL-ALUM-U-8 | ALUMINUM CHANNEL | RECESSED WALL LIGHT | COLOR: BLK | |

ALL PROPOSED PLANTINGS FROM VOLUME 2, CHAPTER 2: STRUCTURAL BMP SPECIFICATIONS FOR THE MASSACHUSETTS STORMWATER HANDBOOK - PLANT SPECIES SUITABLE FOR USE IN BIORETENTION - HERBACEOUS SPECIES



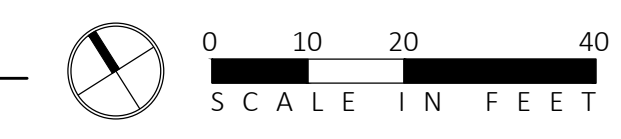
**FOR PERMIT ONLY
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1 PLANTING & LIGHTING PLAN
SCALE: 1" = 20'-0"

SHEET L110
SHEET L111
SHEET L112



MDLA
MICHAEL D'ANGELO landscape architecture

MICHAEL D'ANGELO LANDSCAPE ARCHITECTURE LLC
840 SUMMER STREET
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BERKELEY PARTNERS
1 WASHINGTON MALL, SUITE 701
BOSTON, MA

PROJECT
WAREHOUSE / INDUSTRIAL DEV.
100 / 200 FINANCIAL PARK
FRANKLIN, MA

STAMP
MICHAEL D'ANGELO
REGISTERED LANDSCAPE ARCHITECT
NO. 4098

| REV. NO. | DATE | DESCRIPTION |
|----------|---------|----------------------|
| 1 | 5/11/23 | FOR PERMIT |
| 2 | 7/17/23 | RESPONSE TO COMMENTS |
| 3 | 8/10/23 | RESPONSE TO COMMENTS |
| 4 | 8/23/23 | RESPONSE TO COMMENTS |

PLANTING & LIGHTING PLAN

DRAWN: NC
CHECKED: AS NOTED
SCALE: L110
AS NOTED
DATE: 5/11/2023

SHEET 11 OF 24

plot date: 8/25/2023

FOR PERMIT ONLY
NOT FOR CONSTRUCTION

| PLANT SCHEDULE | | | | | |
|---|------|-----------------------------|--|--------------|--|
| SYMBOL | QTY. | LATIN NAME | COMMON NAME | SIZE | NOTES |
| TREES | | | | | |
| AR | 24 | ACER RUBRUM | RED MAPLE | 3"-3.5" CAL. | B&B, 6' CLEAR BRANCHING |
| AC | 5 | AMELANCHIER CANADENSIS | SHADBLow SERVICEBERRY | 8-10' HT | B&B, MULTI-STEM |
| BP | 10 | BETULA POPULIFOLIA | GRAY BIRCH | 3"-3.5" CAL. | B&B, MULTI-STEM |
| PS | 10 | PINUS STROBUS | EASTERN WHITE PINE | 3"-3.5" CAL. | B&B, 6' CLEAR BRANCHING |
| PSC | 17 | PRUNUS SEROTINA | BLACK CHERRY | 3"-3.5" CAL. | B&B, 6' CLEAR BRANCHING |
| PH | 16 | PLATANUS OCCIDENTALIS | AMERICAN SYCAMORE | 3"-3.5" CAL. | B&B, 6' CLEAR BRANCHING |
| TA | 16 | TILIA AMERICANA | BASSWOOD | 3"-3.5" CAL. | B&B, 6' CLEAR BRANCHING |
| SHRUBS & ORNAMENTAL GRASSES - TYPE A | | | | | |
| | | CLETHRA ALNIFOLIA | PEPPERBUSH | 5 GAL | 36" O.C. B&B |
| | | HYDRANGEA QUERCIFOLIA | OAK-LEAVED HYDRANGEA | 3"-3.5" TALL | 36" O.C. B&B |
| | | ILEX GLABRA | INKBERRY | 3"-3.5" TALL | 36" O.C. B&B |
| | | ILEX VERTICILLATA | COMMON WINTERBERRY | 3"-3.5" TALL | 36" O.C. B&B |
| | | KALMIA LATIFOLIA | MOUNTAIN LAUREL | 3" TALL | 36" O.C. B&B |
| | | RHUS AROMATICA | FRAGRANT SUMAC | 3"-3.5" TALL | 36" O.C. B&B |
| | | VIBURNUM DENTATUM | ARROWWOOD | 3"-3.5" TALL | 36" O.C. B&B |
| SHRUBS & ORNAMENTAL GRASSES - TYPE B | | | | | |
| | | COMPTONIA PEREGRINA | SWEET-FERN | 2 GAL | 24" O.C. CONTAINER |
| | | IRIS VERSICOLOR | BLUE FLAG IRIS | 2 GAL | 24" O.C. CONTAINER |
| | | PEROVSKIA ATRIPLICIFOLIA | RUSSIAN SAGE | 2.5'-3" TALL | 24" O.C. B&B |
| PERENNIALS | | | | | |
| | | CAREX PENNSYLVANICA | PENNSYLVANIA SEDGE | 1 GAL | 18" O.C. CONTAINER |
| | | ECHINACEA PURPUREA | PURPLE CONEFLOWER | 1 GAL | 18" O.C. CONTAINER |
| | | GERANIUM DALMATIUM | CRANESBILL | 1 GAL | 18" O.C. CONTAINER |
| SEED MIX | | | | | |
| | | ERNST SEEDS 800-873-3321 | ERNST MIX (ERNMX-181-1 & 181-2) NATIVE STEEP SLOPE MIX | 75 LB/ACRE | APPLY COVER CROP; FALL: GRAIN RYE, SPRING: OAT; SEE SPEC SHEET |
| | | ERNST SEEDS 800-873-3321 | ERNST MIX (ERNMX-180) RAIN GARDEN MIX | 20 LB/ACRE | APPLY COVER CROP OF GRAIN RYE; SEE SPEC SHEET |

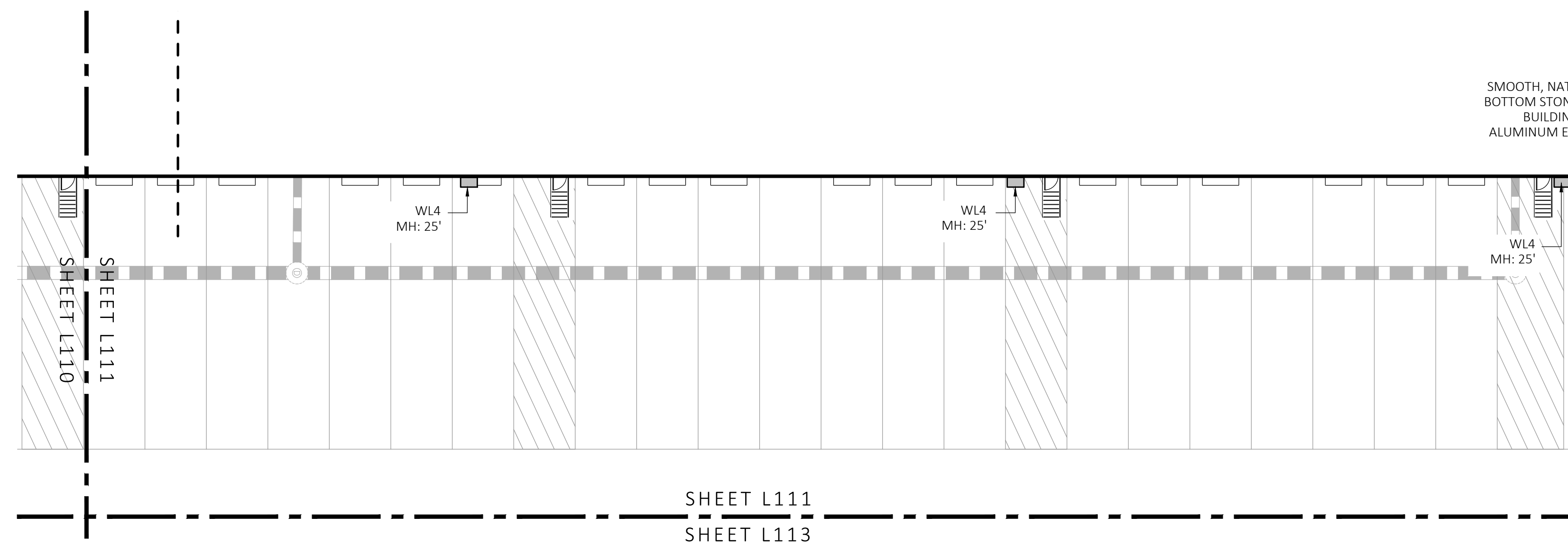
ALL PROPOSED PLANTINGS COME FROM THE BEST DEVELOPMENT PRACTICES GUIDEBOOK (§185-31.C.K)

| LIGHT SCHEDULE | | | | | | |
|----------------|-------|---|--|------------------------|----------------|--|
| SYMBOL | LABEL | MODEL | MOUNT | ARRANGEMENT | OPTIONS | REP |
| ○ | BL1 | ARCLUCE KLOU180 BOLLARD RWL1-48L-25-3K7-4W-U | CONCRETE FOOTING; KEEP 3" ABOVE GRADE | PEDESTRIAN BOLLARD | COLOR: GRAY | |
| ■ | SL3 | BEACON RATIO SITE FIXTURE RAR1-160L-135-3K7-3-U BEACON SSS-B POLE SSS-B-20-40-A-1-B3-FINISH | CONCRETE FOOTING; KEEP 24" ABOVE GRADE IN ASPHALT KEEP 3" ABOVE GRADE IN ISLANDS | SINGLE | COLOR: BLK | |
| ■ | SL4 | BEACON RATIO SITE FIXTURE RAR1-160L-135-3K7-4W-U BEACON SSS-B POLE SSS-B-20-40-A-1-B3-FINISH | CONCRETE FOOTING; KEEP 24" ABOVE GRADE IN ASPHALT KEEP 3" ABOVE GRADE IN ISLANDS | SINGLE | COLOR: BLK | ILLUMINATE 617-947-8996 STEVE PRUDHOMME |
| ■ | SL4-2 | BEACON RATIO SITE FIXTURE RAR1-160L-135-3K7-4W-U BEACON SSS-B POLE SSS-B-20-40-A-2-B3-FINISH | CONCRETE FOOTING; KEEP 24" ABOVE GRADE IN ASPHALT KEEP 3" ABOVE GRADE IN ISLANDS | BACK BACK | COLOR: BLK | |
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| --- | WL3 | DL-ES-15-0-KC-24-A-DL- ALUM-U-8 | ALUMINUM CHANNEL | RECESSED WALL LIGHT | COLOR: BLK | |

SUBMIT CUT SHEETS FOR APPROVAL; SEE PHOTOMETRIC PLAN PROVIDED WITH THIS DRAWING SET FOR MORE INFORMATION.

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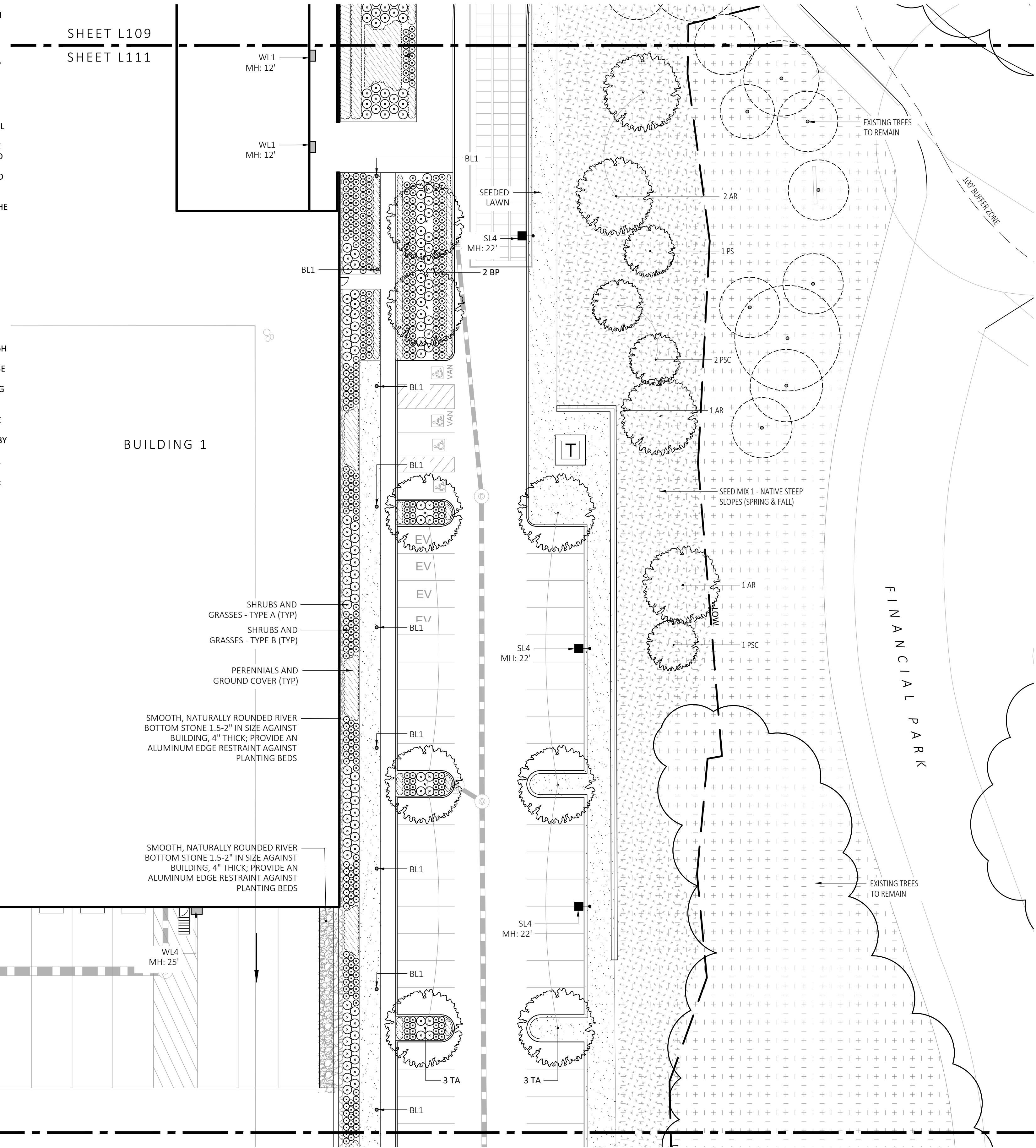
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SHEET L109
SHEET L111



1 PLANTING & LIGHTING PLAN
SCALE: 1" = 20'-0"



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| 4 | 8/25/23 | RESPONSE TO COMMENTS |

PLANTING & LIGHTING PLAN

L111

DATE: 5/11/2023

SHEET 12 OF 24

plot date: 8/25/2023

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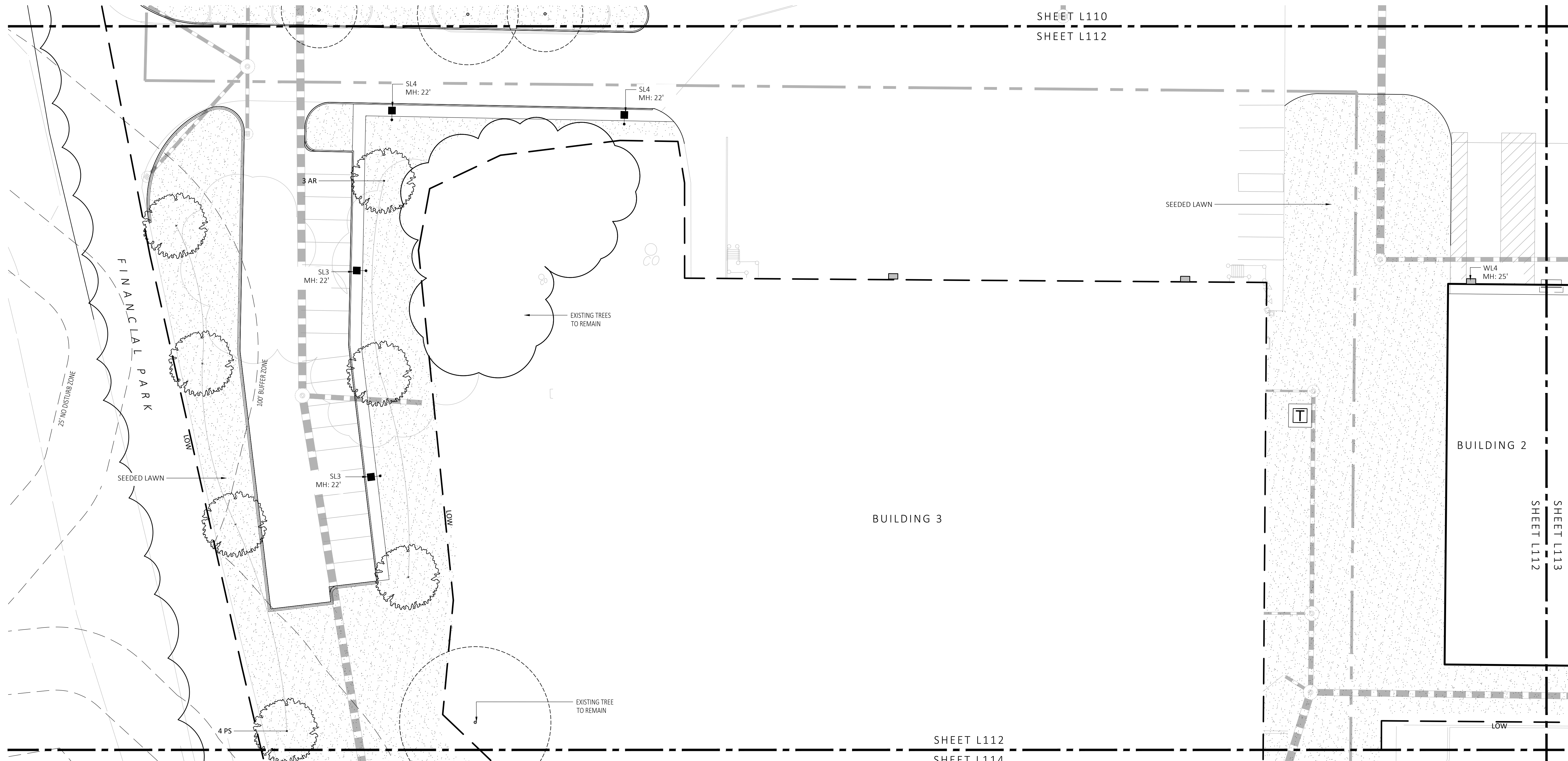
| SYMBOL | QTY. | LATIN NAME | COMMON NAME | SIZE | NOTES |
|---|------|-----------------------------|--|--------------|--|
| TREES | | | | | |
| AR | 24 | ACER RUBRUM | RED MAPLE | 3"-3.5" CAL. | B&B, 6' CLEAR BRANCHING |
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| | | CAREX PENNSYLVANICA | PENNSYLVANIA SEDGE | 1 GAL | 18" O.C. CONTAINER |
| | | ECHINACEA PURPUREA | PURPLE CONEFLOWER | 1 GAL | 18" O.C. CONTAINER |
| | | GERANIUM DALMATIICUM | CRANESBILL | 1 GAL | 18" O.C. CONTAINER |
| SEED MIX | | | | | |
| | | ERNST SEEDS 800-873-3321 | ERNST MIX (ERNMX-181-1 & 181-2) NATIVE STEEP SLOPE MIX | 75 LB/ACRE | APPLY COVER CROP; FALL: GRAIN RYE, SPRING: OAT; SEE SPEC SHEET |
| | | ERNST SEEDS 800-873-3321 | ERNST MIX (ERNMX-180) RAIN GARDEN MIX | 20 LB/ACRE | APPLY COVER CROP OF GRAIN RYE; SEE SPEC SHEET |

ALL PROPOSED PLANTINGS COME FROM THE BEST DEVELOPMENT PRACTICES GUIDEBOOK (\$185-31.C.K)

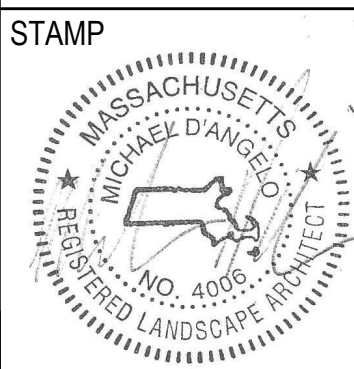
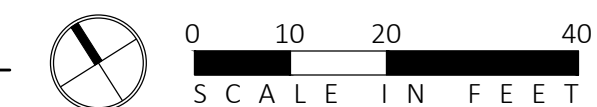
FOR PERMIT ONLY
NOT FOR CONSTRUCTION

| SYMBOL | LABEL | MODEL | MOUNT | ARRANGEMENT | OPTIONS | REP |
|--------|-------|---|--|------------------------|----------------|--|
| ○ | BL1 | ARCLUCE KLOU180 BOLLARD RWL1-48L-25-3K7-4W-U | CONCRETE FOOTING; KEEP 3" ABOVE GRADE | PEDESTRIAN BOLLARD | COLOR: GRAY | |
| ■ | SL3 | BEACON RATIO SITE FIXTURE RAR1-160L-135-3K7-3-U BEACON SSS-8 POLE SSS-B-20-40-A-1-B3-FINISH | CONCRETE FOOTING; KEEP 24" ABOVE GRADE IN ASPHALT KEEP 3" ABOVE GRADE IN ISLANDS | SINGLE | COLOR: BLK | |
| ■ | SL4 | BEACON RATIO SITE FIXTURE RAR1-160L-135-3K7-4W-U BEACON SSS-8 POLE SSS-B-20-40-A-1-B3-FINISH | CONCRETE FOOTING; KEEP 24" ABOVE GRADE IN ASPHALT KEEP 3" ABOVE GRADE IN ISLANDS | SINGLE | COLOR: BLK | ILLUMINATE 617-947-8996 STEVE PRUDHOMME |
| ■ | SL4-2 | BEACON RATIO SITE FIXTURE RAR1-160L-135-3K7-4W-U BEACON SSS-8 POLE SSS-B-20-40-A-1-B3-FINISH | CONCRETE FOOTING; KEEP 24" ABOVE GRADE IN ASPHALT KEEP 3" ABOVE GRADE IN ISLANDS | BACK BACK | COLOR: BLK | |
| □ | WL1 | BEACON RATIO WALL FIXTURE RWL1-48L-25-3K7-4W-U | BUILDING MOUNT | SINGLE | COLOR: BLK | |
| □ | WL2 | BEACON RATIO WALL FIXTURE RWL2-160L-135-3K7-4-U | BUILDING MOUNT | SINGLE | COLOR: BLK | |
| --- | WL3 | DL-ES-15-D-30K-HC-24-A-DL- ALUM-U-8 | ALUMINUM CHANNEL | RECESSED WALL LIGHT | | |

SUBMIT CUT SHEETS FOR APPROVAL; SEE PHOTOMETRIC PLAN PROVIDED WITH THIS DRAWING SET FOR MORE INFORMATION.



1 PLANTING & LIGHTING PLAN
SCALE: 1" = 20'-0"



| REV. NO. | DATE | DESCRIPTION |
|----------|---------|----------------------|
| | 5/11/23 | FOR PERMIT |
| 1 | 7/17/23 | RESPONSE TO COMMENTS |
| 2 | 8/10/23 | RESPONSE TO COMMENTS |
| 3 | 8/28/23 | RESPONSE TO COMMENTS |

PLANTING & LIGHTING PLAN

| | |
|----------------------|-------------|
| DRAWN: NC | L112 |
| CHECKED: AS NOTED | |
| SCALE: AS NOTED | |
| DATE: 5/11/2023 | |

FOR PERMIT ONLY
NOT FOR CONSTRUCTION

| PLANT SCHEDULE | | | | | |
|---|------|-----------------------------|--|--------------|--|
| SYMBOL | QTY. | LATIN NAME | COMMON NAME | SIZE | NOTES |
| TREES | | | | | |
| AR | 24 | ACER RUBRUM | RED MAPLE | 3"-3.5" CAL. | B&B, 6' CLEAR BRANCHING |
| AC | 5 | AMELANCHIER CANADENSIS | SHADBLOW SERVICEBERRY | 8-10' HT | B&B, MULTI-STEM |
| BP | 10 | BETULA POPULIFOLIA | GRAY BIRCH | 3"-3.5" CAL. | B&B, MULTI-STEM |
| PS | 10 | PINUS STROBUS | EASTERN WHITE PINE | 3"-3.5" CAL. | B&B, 6' CLEAR BRANCHING |
| PSC | 17 | PRUNUS SEROTINA | BLACK CHERRY | 3"-3.5" CAL. | B&B, 6' CLEAR BRANCHING |
| PH | 16 | PLATANUS OCCIDENTALIS | AMERICAN SYCAMORE | 3"-3.5" CAL. | B&B, 6' CLEAR BRANCHING |
| TA | 16 | TILIA AMERICANA | BASSWOOD | 3"-3.5" CAL. | B&B, 6' CLEAR BRANCHING |
| SHRUBS & ORNAMENTAL GRASSES - TYPE A | | | | | |
| | | CLETHRA ALNIFOLIA | PEPPERBUSH | 5 GAL | 36" O.C. B&B |
| | | HYDRANGEA QUERCIFOLIA | OAK-LEAVED HYDRANGEA | 3'-3.5' TALL | 36" O.C. B&B |
| | | ILEX GLABRA | INKBERRY | 3'-3.5' TALL | 36" O.C. B&B |
| | | ILEX VERTICILLATA | COMMON WINTERBERRY | 3'-3.5' TALL | 36" O.C. B&B |
| | | KALMIA LATIFOLIA | MOUNTAIN LAUREL | 3' TALL | 36" O.C. B&B |
| | | RHUS AROMATICA | FRAGRANT SUMAC | 3'-3.5' TALL | 36" O.C. B&B |
| | | VIBURNUM DENTATUM | ARROWWOOD | 3'-3.5' TALL | 36" O.C. B&B |
| SHRUBS & ORNAMENTAL GRASSES - TYPE B | | | | | |
| | | COMPTONIA PEREGRINA | SWEET-FERN | 2 GAL | 24" O.C. CONTAINER |
| | | IRIS VERSICOLOR | BLUE FLAG IRIS | 2 GAL | 24" O.C. CONTAINER |
| | | PEROVSKIA TRIPLICIFOLIA | RUSSIAN SAGE | 2.5'-3' TALL | 24" O.C. B&B |
| PERENNIALS | | | | | |
| | | CAREX PENNSYLVANICA | PENNSYLVANIA SEDGE | 1 GAL | 18" O.C. CONTAINER |
| | | ECHINACEA PURPUREA | PURPLE CONEFLOWER | 1 GAL | 18" O.C. CONTAINER |
| | | GERANIUM DALMATIUM | CRANESBILL | 1 GAL | 18" O.C. CONTAINER |
| SEED MIX | | | | | |
| | | ERNST SEEDS 800-873-3321 | ERNST MIX (ERNMX-181-1 & 181-2) NATIVE STEEP SLOPE MIX | 75 LB/ACRE | APPLY COVER CROP; FALL: GRAIN RYE, SPRING: OAT; SEE SPEC SHEET |
| | | ERNST SEEDS 800-873-3321 | ERNST MIX (ERNMX-180) RAIN GARDEN MIX | 20 LB/ACRE | APPLY COVER CROP OF GRAIN RYE; SEE SPEC SHEET |

ALL PROPOSED PLANTINGS COME FROM THE BEST DEVELOPMENT PRACTICES GUIDEBOOK (§185-31.C.(K))

| LIGHT SCHEDULE | | | | | | |
|----------------|-------|--|--|------------------------|----------------|--|
| SYMBOL | LABEL | MODEL | MOUNT | ARRANGEMENT | OPTIONS | REP |
| ○ | BL1 | ARLUCE KLOU180 BOLLARD RWL1-48L-25-3K7-4W-U | CONCRETE FOOTING; KEEP 3" ABOVE GRADE | PEDESTRIAN BOLLARD | COLOR: GRAY | |
| ■ | SL3 | BEACON RATIO SITE FIXTURE RARI-160L-135-3K7-3-U BEACON S55-B POLE S55-B-20-40A-1-B3-FINISH | CONCRETE FOOTING; KEEP 24" ABOVE GRADE IN ASPHALT KEEP 3" ABOVE GRADE IN ISLANDS | SINGLE | COLOR: BLK | ILLUMINATE 617-947-8996 STEVE PRUDHOMME |
| ■ | SL4 | BEACON RATIO SITE FIXTURE RARI-160L-135-3K7-4W-U BEACON S55-B POLE S55-B-20-40A-1-B3-FINISH | CONCRETE FOOTING; KEEP 24" ABOVE GRADE IN ASPHALT KEEP 3" ABOVE GRADE IN ISLANDS | SINGLE | COLOR: BLK | |
| ■ | SL4-2 | BEACON RATIO SITE FIXTURE RARI-160L-135-3K7-4W-U BEACON S55-B POLE S55-B-20-40A-1-B3-FINISH | CONCRETE FOOTING; KEEP 24" ABOVE GRADE IN ASPHALT KEEP 3" ABOVE GRADE IN ISLANDS | BACK BACK | COLOR: BLK | |
| ■ | WL1 | BEACON RATIO WALL FIXTURE RWL1-48L-25-3K7-4W-U | BUILDING MOUNT | SINGLE | COLOR: BLK | |
| ■ | WL2 | BEACON RATIO WALL FIXTURE RWL2-160L-135-3K7-4-U | BUILDING MOUNT | SINGLE | COLOR: BLK | |
| --- | WL3 | DL-ES-15-O-30K-HC-24-A-DL- ALUM-U-8 | ALUMINUM CHANNEL | RECESSED WALL LIGHT | | |

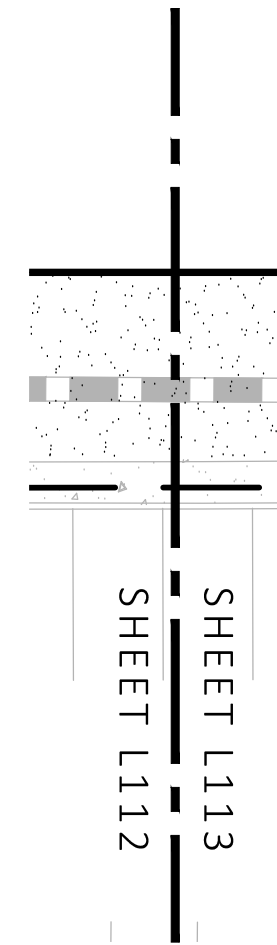
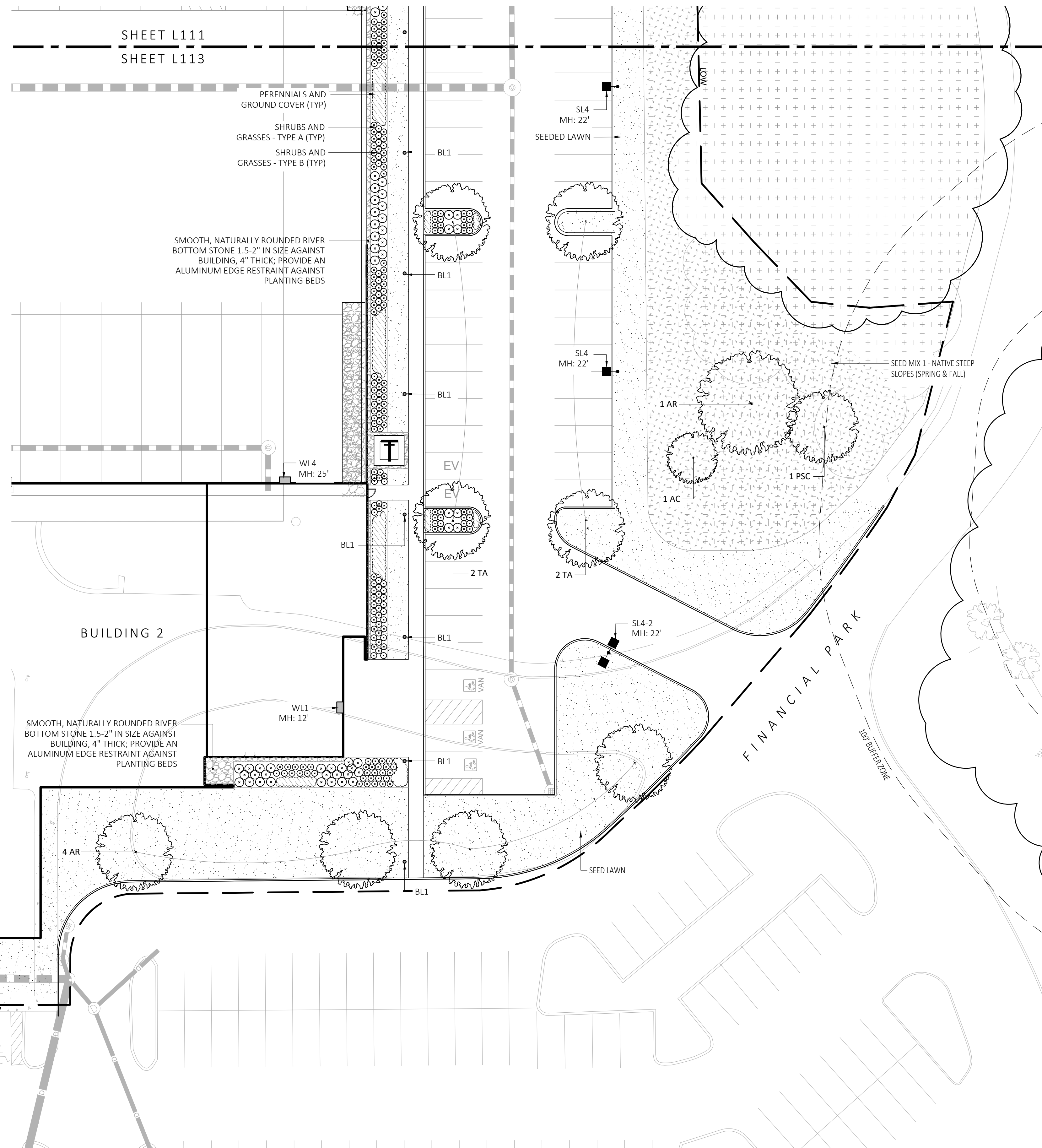
SUBMIT CUT SHEETS FOR APPROVAL; SEE PHOTOMETRIC PLAN PROVIDED WITH THIS DRAWING SET FOR MORE INFORMATION.

GENERAL IRRIGATION NOTES:

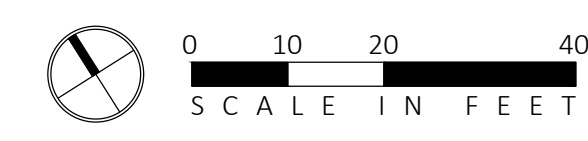
- THE DESIGN/BUILD IRRIGATION SUB-CONTRACTOR SHALL PROVIDE A COMPLETE SYSTEM FOR THE IRRIGATION AREAS SHOWN ON THE PLAN, WHICH INCLUDES NEW AND EXISTING TRANSPLANTED PLANT MATERIALS. CONTRACTOR SHALL SUBMIT SHOP DRAWINGS FOR FINAL LAYOUT OF IRRIGATION SHOWING LOCATIONS AND SIZES OF MAIN LINES AND LATERAL LINES, ZONES, RAIN AND SOIL SENSORS, AND CUT SHEETS FOR CONTROLLER SYSTEM AND COMPONENTS. INCLUDE ANY NECESSARY SLEEVING ON A DIAGRAM.
- IRRIGATION TO BE COORDINATED WITH GENERAL CONTRACTOR TO LOCATE THE NECESSARY PVC SLEEVING TO COMPLETE IRRIGATION PROGRAM.
- IRRIGATION CONTRACTOR SHALL VERIFY PSI/GPM REQUIREMENTS AT THE SITE BEFORE STARTING CONSTRUCTION.
- TREES SHOULD BE ON A SEPARATE ZONE.
- ALL TREES, SHRUBS, PERENNIALS, ORNAMENTAL GRASSES, AND GROUND COVER SHALL BE DRIP IRRIGATED. CONTRACTOR SHALL BE AWARE THAT THE IRRIGATION SYSTEM SHALL BE ROUTED TO THE PYLON SIGN PLANTER AND PLANTERS AT THE BUILDING.
- ALL LAWN AREAS SHALL BE SPRAY HEAD IRRIGATED. THE HEADS SHALL BE LOCATED FOR HEAD TO HEAD COVERAGE WITH ABSOLUTELY NO OVER SPRAY ONTO THE PAVEMENT.
- INSTALL DRIP TUBING, .6GPH, 12" CENTERS, STAKED EVERY TURN OR EVERY 4'
- THE CONTRACTOR SHALL BE EXTREMELY CAREFUL DURING THE INSTALLATION PROCESS NOT TO DISTURB NEW OR EXISTING PLANT MATERIALS. THE CONTRACTOR IS TO COORDINATE HIS WORK WITH OTHER SUB-CONTRACTORS.
- THE IRRIGATION CONTRACTOR SHALL CONFORM TO ANY LOCAL CODES OR ORDINANCES THAT MAY BE REQUIRED TO COMPLETE THE WORK.
- WATER SUPPLY AND CONTROLLER: COORDINATE CONNECTION TO WATER SUPPLY WITH GENERAL CONTRACTOR. COORDINATE CONTROLLER LOCATION WITH GENERAL CONTRACTOR.
- MEP CONTRACTOR TO PROVIDE BACK FLOW PREVENTION.
- THE IRRIGATION CONTRACTOR SHALL TEST WATER SOURCE FOR WATER QUALITY INCLUDING MINERALS THAT MAY CAUSE STAINING OF CONCRETE AND PAVING SURFACES.
- INSTALLER SHALL INSTALL MOISTURE SENSORS. CONTRACTOR SHALL INSTALL PER MANUFACTURERS'S SPECIFICATIONS AND SHALL BE RESPONSIBLE TO PROGRAM RELATED HYDROZONES TO RESPECTIVE SOIL MOISTURE SENSORS. PROVIDE ONE FOR EACH IRRIGATION ZONE WITH AUTOMATIC SHUT-OFF ONCE MOISTURE REQUIREMENTS ARE MET.

PLANTING:

- DURING CONSTRUCTION, PROTECT ALL EXISTING SITE FEATURES, STRUCTURES AND UTILITIES.
- PLANTS SHALL BE TRUE TO SPECIES AND VARIETY SPECIFIED AND NURSERY GROWN IN ACCORDANCE WITH THE AMERICAN STANDARD FOR NURSERY STOCK UNDER CLIMATIC CONDITIONS SIMILAR TO THOSE IN THE LOCALITY OF THE PROJECT. SUBSTITUTIONS WILL BE PERMITTED ONLY IF APPROVED BY THE LANDSCAPE ARCHITECT.
- LANDSCAPE ARCHITECT APPROVAL IS REQUIRED BEFORE PLANT MATERIAL IS PURCHASED. LANDSCAPE ARCHITECT RESERVES THE RIGHT TO SEE ALL MATERIAL IN PERSON AT THE NURSERY. IF TRAVEL OUTSIDE OF MA IS REQUIRED, LANDSCAPE ARCHITECT'S TRAVEL COSTS SHALL BE PAID FOR BY THE CONTRACTOR.
- ALL EXPOSED BURLAP, WIRE BASKETS AND OTHER MATERIALS ATTACHED TO PLANTS SHALL BE REMOVED PRIOR TO PLANTING. CARE SHALL BE TAKEN NOT TO DISTURB THE ROOT BALL OF PLANTS.
- THOROUGHLY WATER ALL PLANTS IMMEDIATELY AFTER PLANTING.
- WHERE DISCREPANCIES IN QUANTITIES OCCUR, DRAWINGS SUPERCEDE PLANT NOTES AND SCHEDULE.
- TRANSPLANTING SHALL BE DONE IN ACCORDANCE WITH THE AMERICAN STANDARD FOR NURSERY STOCK.
- LOAM USED IN PLANT BEDS SHALL BE UNIFORM IN COMPOSITION, FREE FROM SUBSOIL, STONES LARGER THAN 1", NOXIOUS SEEDS AND SUITABLE FOR THE SUPPORT OF VEGETATIVE GROWTH. THE PH VALUE SHALL BE BETWEEN 5.5 AND 6.5.
- MULCH IN TREE AND SHRUB BEDS SHALL BE NATURAL, NATIVE HEMLOCK MULCH FREE OF GROWTH OR GERMINATION INHIBITING INGREDIENTS. SUBMIT SAMPLES FOR APPROVAL.
- LOCATIONS FOR PLANTS AND/OR OUTLINE OF AREAS TO BE PLANTED ARE TO BE STAKED OUT AT THE SITE FOR APPROVAL BY THE LANDSCAPE ARCHITECT.
- SOIL DEPTHS: a.) SHRUBS AND PERENNIAL BEDS: 18" MIN.; b.) GROUND COVER: 6" MIN.; c.) TREES: SEE DETAIL; d.) SOIL/SEED: 6" MIN.
- PROVIDE A SUBSURFACE ROOTBALL ANCHOR BY PLATIPUS EARTH ANCHORS, SIZE FOR CALIPER



1 PLANTING & LIGHTING PLAN
SCALE: 1" = 20'-0"



MDLA
MICHAEL D'ANGELO Landscape Architecture

MICHAEL D'ANGELO
LANDSCAPE ARCHITECTURE LLC
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SUITE 203A
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CLIENT
BERKELEY PARTNERS
1 WASHINGTON MALL, SUITE 701
BOSTON, MA

PROJECT
WAREHOUSE / INDUSTRIAL DEV.
100 / 200 FINANCIAL PARK
FRANKLIN, MA

STAMP
MICHAEL D'ANGELO
REGISTERED LANDSCAPE ARCHITECT
NO. 4098

| REV. NO. | DATE | DESCRIPTION |
|----------|---------|----------------------|
| | 5/11/23 | FOR PERMIT |
| 1 | 7/17/23 | RESPONSE TO COMMENTS |
| 2 | 8/10/23 | RESPONSE TO COMMENTS |
| 3 | 8/23/23 | RESPONSE TO COMMENTS |

PLANTING & LIGHTING PLAN

DRAWN: NC
CHECKED: AS NOTED
SCALE: L113
AS NOTED
DATE: 5/11/2023

SHEET 14 OF 24
plot date: 8/25/2023

PLANTING:

- DURING CONSTRUCTION, PROTECT ALL EXISTING SITE FEATURES, STRUCTURES AND UTILITIES.
- PLANTS SHALL BE TRUE TO SPECIES AND VARIETY SPECIFIED AND NURSERY GROWN IN ACCORDANCE WITH THE AMERICAN STANDARD FOR NURSERY STOCK UNDER CLIMATIC CONDITIONS SIMILAR TO THOSE IN THE LOCALITY OF THE PROJECT. SUBSTITUTIONS WILL BE PERMITTED ONLY IF APPROVED BY THE LANDSCAPE ARCHITECT.
- LANDSCAPE ARCHITECT APPROVAL IS REQUIRED BEFORE PLANT MATERIAL IS PURCHASED. LANDSCAPE ARCHITECT RESERVES THE RIGHT TO SEE ALL MATERIAL IN PERSON AT THE NURSERY. IF TRAVEL OUTSIDE OF MA IS REQUIRED, LANDSCAPE ARCHITECT'S TRAVEL COSTS SHALL BE PAID FOR BY THE CONTRACTOR.
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- THOROUGHLY WATER ALL PLANTS IMMEDIATELY AFTER PLANTING.
- WHERE DISCREPANCIES IN QUANTITIES OCCUR, DRAWINGS SUPERCEDE PLANT NOTES AND SCHEDULE.
- TRANSPLANTING SHALL BE DONE IN ACCORDANCE WITH THE AMERICAN STANDARD FOR NURSERY STOCK.
- LOAM USED IN PLANT BEDS SHALL BE UNIFORM IN COMPOSITION, FREE FROM SUBSOIL, STONES LARGER THAN 1", NOXIOUS SEEDS AND SUITABLE FOR THE SUPPORT OF VEGETATIVE GROWTH. THE PH VALUE SHALL BE BETWEEN 5.5 AND 6.5.
- MULCH IN TREE AND SHRUB BEDS SHALL BE NATURAL, NATIVE HEMLOCK MULCH FREE OF GROWTH OR GERMINATION INHIBITING INGREDIENTS. SUBMIT SAMPLES FOR APPROVAL.
- LOCATIONS FOR PLANTS AND/OR OUTLINE OF AREAS TO BE PLANTED ARE TO BE STAKED OUT AT THE SITE FOR APPROVAL BY THE LANDSCAPE ARCHITECT.
- SOIL DEPTHS: a.) SHRUBS AND PERENNIAL BEDS: 18" MIN.; b.) GROUND COVER: 6" MIN.; c.) TREES: SEE DETAIL; d.) SOD/SEED: 6" MIN.
- PROVIDE A SUBSURFACE ROOTBALL ANCHOR BY PLATIPUS EARTH ANCHORS, SIZE FOR CALIPER

GENERAL IRRIGATION NOTES:

- THE DESIGN/BUILD IRRIGATION SUB-CONTRACTOR SHALL PROVIDE A COMPLETE SYSTEM FOR THE IRRIGATION AREAS SHOWN ON THE PLAN, WHICH INCLUDES NEW AND EXISTING TRANSPANTED PLANT MATERIALS. CONTRACTOR SHALL SUBMIT SHOP DRAWINGS FOR FINAL LAYOUT OF IRRIGATION SHOWING LOCATIONS AND SIZES OF MAIN LINES AND LATERAL LINES, ZONES, RAIN AND SOIL SENSORS, AND CUT SHEETS FOR CONTROLLER SYSTEM AND COMPONENTS. INCLUDE ANY NECESSARY SLEEVING ON A DIAGRAM.
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- TREES SHOULD BE ON A SEPARATE ZONE.
- ALL LAWN AREAS SHALL BE SPRAY HEAD IRRIGATED. THE HEADS SHALL BE LOCATED FOR HEAD TO HEAD COVERAGE WITH ABSOLUTELY NO OVER SPRAY ONTO THE PAVEMENT.
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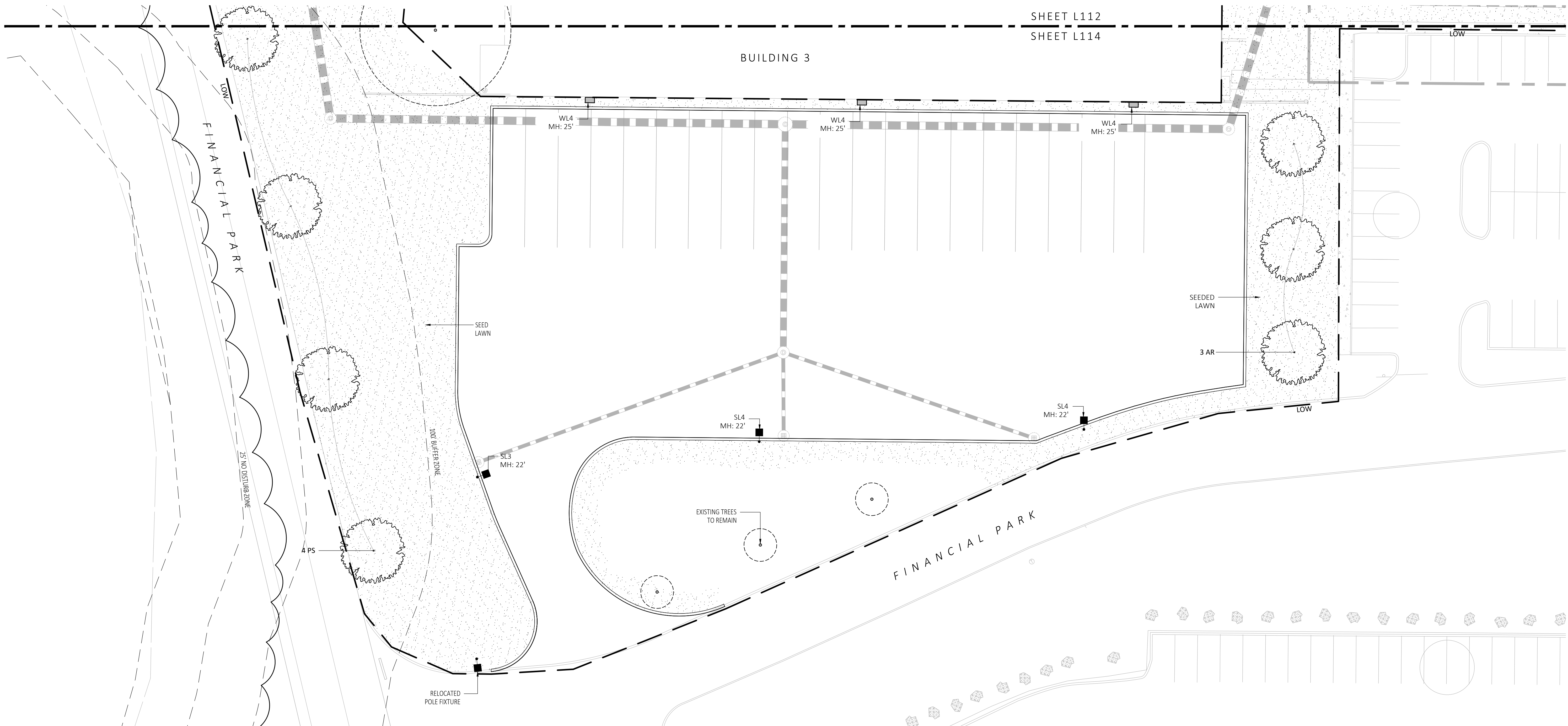
| PLANT SCHEDULE | | | | | |
|---|------|-----------------------------|--|--------------|--|
| SYMBOL | QTY. | LATIN NAME | COMMON NAME | SIZE | NOTES |
| TREES | | | | | |
| AR | 24 | ACER RUBRUM | RED MAPLE | 3"-3.5" CAL. | B&B, 6' CLEAR BRANCHING |
| AC | 5 | AMELANCHIER CANADENSIS | SHADBLOW SERVICEBERRY | 8-10' HT | B&B, MULTI-STEM |
| BP | 10 | BETULA POPULIFOLIA | GRAY BIRCH | 3"-3.5" CAL. | B&B, MULTI-STEM |
| PS | 10 | PINUS STROBUS | EASTERN WHITE PINE | 3"-3.5" CAL. | B&B, 6' CLEAR BRANCHING |
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| PH | 16 | PLATANUS OCCIDENTALIS | AMERICAN SYCAMORE | 3"-3.5" CAL. | B&B, 6' CLEAR BRANCHING |
| TA | 16 | TILIA AMERICANA | BASSWOOD | 3"-3.5" CAL. | B&B, 6' CLEAR BRANCHING |
| SHRUBS & ORNAMENTAL GRASSES - TYPE A | | | | | |
| | | CLETHRA ALNIFOLIA | PEPPERBUSH | 5 GAL | 36" O.C. B&B |
| | | HYDRANGEA QUERCIFOLIA | OAK-LEAVED HYDRANGEA | 3"-3.5" TALL | 36" O.C. B&B |
| | | ILEX GLABRA | INKBERRY | 3"-3.5" TALL | 36" O.C. B&B |
| | | ILEX VERTICILLATA | COMMON WINTERBERRY | 3"-3.5" TALL | 36" O.C. B&B |
| | | KALMIA LATIFOLIA | MOUNTAIN LAUREL | 3" TALL | 36" O.C. B&B |
| | | RHUS AROMATICA | FRAGRANT SUMAC | 3"-3.5" TALL | 36" O.C. B&B |
| | | VIBURNUM DENTATUM | ARROWWOOD | 3"-3.5" TALL | 36" O.C. B&B |
| SHRUBS & ORNAMENTAL GRASSES - TYPE B | | | | | |
| | | COMPTONIA PEREGRINA | SWEET-FERN | 2 GAL | 24" O.C. CONTAINER |
| | | IRIS VERSICOLOR | BLUE FLAG IRIS | 2 GAL | 24" O.C. CONTAINER |
| | | PEROVSKIA ATRIPLICIFOLIA | RUSSIAN SAGE | 2.5'-3' TALL | 24" O.C. B&B |
| PERENNIALS | | | | | |
| | | CAREX PENNSYLVANICA | PENNSYLVANIA SEDGE | 1 GAL | 18" O.C. CONTAINER |
| | | ECHINACEA PURPUREA | PURPLE CONEFLOWER | 1 GAL | 18" O.C. CONTAINER |
| | | GERANIUM DALMATIUM | CRANESBILL | 1 GAL | 18" O.C. CONTAINER |
| SEED MIX | | | | | |
| | | ERNST SEEDS 800-873-3321 | ERNST MIX (ERNMX-181-1 & 181-2) NATIVE STEEP SLOPE MIX | 75 LB/ACRE | APPLY COVER CROP: FALL: GRAIN RYE, SPRING: OAT; SEE SPEC SHEET |
| | | ERNST SEEDS 800-873-3321 | ERNST MIX (ERNMX-180) RAIN GARDEN MIX | 20 LB/ACRE | APPLY COVER CROP OF GRAIN RYE; SEE SPEC SHEET |

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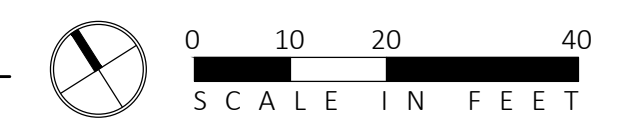
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| LIGHT SCHEDULE | | | | | | |
|----------------|-------|---|--|------------------------|----------------|--|
| SYMBOL | LABEL | MODEL | MOUNT | ARRANGEMENT | OPTIONS | REP |
| ○ | BL1 | ARCLUCE KLOU180 BOLLARD RWL1-48L-25-3K7-4W-U | CONCRETE FOOTING; KEEP 3" ABOVE GRADE | PEDESTRIAN BOLLARD | COLOR: GRAY | |
| ■ | SL3 | BEACON RATIO SITE FIXTURE RAR1-160L-135-3K7-3-U BEACON SSS-8 POLE SSS-8-20-40-A-1-B3-FINISH | CONCRETE FOOTING; KEEP 24" ABOVE GRADE IN ASPHALT KEEP 3" ABOVE GRADE IN ISLANDS | SINGLE | COLOR: BLK | |
| ■ | SL4 | BEACON RATIO SITE FIXTURE RAR1-160L-135-3K7-4W-U BEACON SSS-8 POLE SSS-8-20-40-A-1-B3-FINISH | CONCRETE FOOTING; KEEP 24" ABOVE GRADE IN ASPHALT KEEP 3" ABOVE GRADE IN ISLANDS | SINGLE | COLOR: BLK | ILLUMINATE 617-947-8996 STEVE PRUDHOMME |
| ■ | SL4-2 | BEACON RATIO SITE FIXTURE RAR1-160L-135-3K7-4W-U BEACON SSS-8 POLE SSS-8-20-40-A-1-B3-FINISH | CONCRETE FOOTING; KEEP 24" ABOVE GRADE IN ASPHALT KEEP 3" ABOVE GRADE IN ISLANDS | BACK BACK | COLOR: BLK | |
| □ | WL1 | BEACON RATIO WALL FIXTURE RWL1-48L-25-3K7-4W-U | BUILDING MOUNT | SINGLE | COLOR: BLK | |
| □ | WL2 | BEACON RATIO WALL FIXTURE RWL2-160L-135-3K7-4-U | BUILDING MOUNT | SINGLE | COLOR: BLK | |
| --- | WL3 | DL-ES-15-O-30K-HC-24-A-DL- ALUM-U-8 | ALUMINUM CHANNEL | RECESSED WALL LIGHT | | |

SUBMIT CUT SHEETS FOR APPROVAL; SEE PHOTOMETRIC PLAN PROVIDED WITH THIS DRAWING SET FOR MORE INFORMATION.



1 PLANTING & LIGHTING PLAN
SCALE: 1" = 20'-0"



MDLA
MICHAEL D'ANGELO landscape architecture

MICHAEL D'ANGELO
LANDSCAPE ARCHITECTURE LLC
840 SUMMER STREET
SUITE 203A
BOSTON, MA 02127
1.203.592.4788
www.m-d-a.com

CLIENT
BERKELEY PARTNERS
1 WASHINGTON MALL, SUITE 701
BOSTON, MA

PROJECT
WAREHOUSE / INDUSTRIAL DEV.
100 / 200 FINANCIAL PARK
FRANKLIN, MA



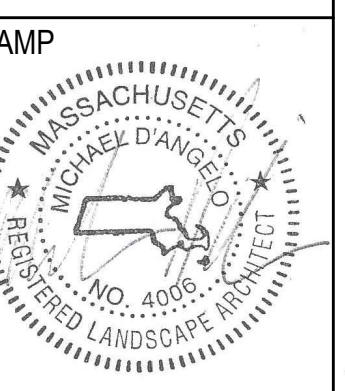
| REV. NO. | DATE | DESCRIPTION |
|----------|---------|----------------------|
| 1 | 5/11/23 | FOR PERMIT |
| 2 | 7/17/23 | RESPONSE TO COMMENTS |
| 3 | 8/10/23 | RESPONSE TO COMMENTS |
| 4 | 8/23/23 | RESPONSE TO COMMENTS |

PLANTING & LIGHTING PLAN

DRAWN:
NC
CHECKED:
AS NOTED
SCALE:
AS NOTED
DATE:
5/11/2023

L114

SHEET 15 OF 24



| REV. NO. | DATE | DESCRIPTION |
|----------|---------|----------------------|
| | 5/11/23 | FOR PERMIT |
| 1 | 7/17/23 | RESPONSE TO COMMENTS |
| 2 | 8/10/23 | RESPONSE TO COMMENTS |
| 3 | 8/23/23 | RESPONSE TO COMMENTS |

PLANTING SCHEDULE & DETAILS

| | |
|-----------|-----------|
| DRAWN: | NC |
| CHECKED: | AS NOTED |
| SCALE: | L115 |
| AS NOTED: | |
| DATE: | 5/11/2023 |

Ernst Conservation Seeds
8884 Mercer Pike
Meadville, PA 16335
(800) 873-3321 Fax (814) 336-5191
www.ernstseed.com

Spring

Date: August 28, 2018

Native Steep Slope Mix w/Grain Oats - ERNMX-181-1

| Botanical Name | Common Name | Price/lb |
|--|---|----------|
| 40.00 % <i>Avena sativa</i> , Variety Not Stated | Oats, Variety Not Stated | 0.22 |
| 20.40 % <i>Sorghastrum nutans</i> , NY Ecotype | Indiangrass, NY Ecotype | 12.90 |
| 8.10 % <i>Andropogon gerardii</i> , 'Niagara' | Big Bluestem, 'Niagara' | 13.06 |
| 7.50 % <i>Elymus virginicus</i> , PA Ecotype | Virginia Wildrye, PA Ecotype | 7.72 |
| 5.20 % <i>Elymus canadensis</i> | Canada Wildrye | 12.87 |
| 4.50 % <i>Schizanthus scoparium</i> , Fort Indiantown Gap-PA Ecotype | Little Bluestem, Fort Indiantown Gap-PA Ecotype | 12.00 |
| 3.70 % <i>Tridens flavus</i> , Fort Indiantown Gap-PA Ecotype | Purpletop, Fort Indiantown Gap-PA Ecotype | 18.78 |
| 3.00 % <i>Agrostis perennis</i> , Albany Pine Bush-NY Ecotype | Autumn Berggrass, Albany Pine Bush-NY Ecotype | 14.00 |
| 2.30 % <i>Panicum virgatum</i> , 'Shawnee' | Switchgrass, 'Shawnee' | 7.51 |
| 1.10 % <i>Chamaecrista fasciculata</i> , PA Ecotype | Partridge Pea, PA Ecotype | 10.00 |
| 1.00 % <i>Echinacea purpurea</i> | Purple Coneflower | 36.00 |
| 0.80 % <i>Gallardia aridata</i> | Perennial Gallardia (Blanketflower) | 32.00 |
| 0.80 % <i>Audubonia hirta</i> | Black-eyed Susan | 20.00 |
| 0.70 % <i>Heliopsis helianthoides</i> , PA Ecotype | Cheery Sunflower, PA Ecotype | 42.00 |
| 0.40 % <i>Aster novae-angliae</i> , PA Ecotype | New England Aster, PA Ecotype | 360.00 |
| 0.20 % <i>Asclepias syriaca</i> , PA Ecotype | Common Milkweed, PA Ecotype | 196.00 |
| 0.20 % <i>Liatris spicata</i> | Marsh (Dense) Blazing Star (Spiked Gayfeather) | 210.00 |
| 0.10 % <i>Penstemon digitalis</i> | Tall White Beardtongue | 160.00 |

100.00 % Mix Price/lb Bulk: \$10.45

Seeding Rate: 75 lb per acre
Erosion Control & Revegetation

Use this formula with grain oats as a cover crop in the spring and summer (until September 1st). Mix formulations are subject to change without notice depending on the availability of existing and new products. While the formula may change, the guiding philosophy and function of the mix will not.

Price quotes guaranteed for 30 days.
All prices are FOB Meadville, PA.
Please check our web site at www.ernstseed.com
for current pricing when placing orders.

1 SEED MIX 1 - NATIVE STEEP SLOPES (SPRING)
SCALE: N.T.S.

Ernst Conservation Seeds
8884 Mercer Pike
Meadville, PA 16335
(800) 873-3321 Fax (814) 336-5191
www.ernstseed.com

Fall

Date: August 28, 2018

Native Steep Slope Mix w/Grain Rye - ERNMX-181-2

| Botanical Name | Common Name | Price/lb |
|---|--|----------|
| 40.00 % <i>Scaevola cavellii</i> , Variety Not Stated | Grain Rye, Variety Not Stated | 0.21 |
| 20.40 % <i>Sorghastrum nutans</i> , PA Ecotype | Indiangrass, PA Ecotype | 10.60 |
| 8.10 % <i>Andropogon gerardii</i> , 'Niagara' | Big Bluestem, 'Niagara' | 13.06 |
| 7.50 % <i>Elymus virginicus</i> , PA Ecotype | Virginia Wildrye, PA Ecotype | 7.72 |
| 5.20 % <i>Elymus canadensis</i> | Canada Wildrye | 12.87 |
| 4.50 % <i>Schizanthus scoparium</i> , 'Camper' | Little Bluestem, 'Camper' | 12.59 |
| 3.70 % <i>Tridens flavus</i> | Purpletop | 18.56 |
| 3.00 % <i>Agrostis perennis</i> , Albany Pine Bush-NY Ecotype | Autumn Berggrass, Albany Pine Bush-NY Ecotype | 14.00 |
| 2.30 % <i>Panicum virgatum</i> , 'Shawnee' | Switchgrass, 'Shawnee' | 7.51 |
| 1.10 % <i>Chamaecrista fasciculata</i> , PA Ecotype | Partridge Pea, PA Ecotype | 10.00 |
| 1.00 % <i>Echinacea purpurea</i> | Purple Coneflower | 36.00 |
| 0.80 % <i>Gallardia aridata</i> | Perennial Gallardia (Blanketflower) | 32.00 |
| 0.80 % <i>Audubonia hirta</i> | Black-eyed Susan | 20.00 |
| 0.70 % <i>Heliopsis helianthoides</i> , PA Ecotype | Cheery Sunflower, PA Ecotype | 42.00 |
| 0.40 % <i>Aster lateriflorus</i> | Calico Aster | 300.00 |
| 0.30 % <i>Liatris spicata</i> | Marsh (Dense) Blazing Star (Spiked Gayfeather) | 210.00 |
| 0.20 % <i>Asclepias syriaca</i> , PA Ecotype | Common Milkweed, PA Ecotype | 196.00 |

100.00 % Mix Price/lb Bulk: \$9.88

Seeding Rate: 75 lb per acre
Erosion Control & Revegetation

Use this formula with grain rye as a cover crop (from August 1st-February 15th). Mix formulations are subject to change without notice depending on the availability of existing and new products. While the formula may change, the guiding philosophy and function of the mix will not.

Price quotes guaranteed for 30 days.
All prices are FOB Meadville, PA.
Please check our web site at www.ernstseed.com
for current pricing when placing orders.

2 SEED MIX 1 - NATIVE STEEP SLOPES (FALL)
SCALE: N.T.S.

Ernst Conservation Seeds
8884 Mercer Pike
Meadville, PA 16335
(800) 873-3321 Fax (814) 336-5191
www.ernstseed.com

Date: August 28, 2018

Rain Garden Mix - ERNMX-180

| Botanical Name | Common Name | Price/lb |
|--|--|----------|
| 31.50 % <i>Schizanthus scoparium</i> , Albany Pine Bush-NY Ecotype | Little Bluestem, Albany Pine Bush-NY Ecotype | 12.02 |
| 20.00 % <i>Elymus virginicus</i> , PA Ecotype | Virginia Wildrye, PA Ecotype | 7.72 |
| 10.00 % <i>Carex vulpinoidea</i> , PA Ecotype | Fox Sedge, PA Ecotype | 24.00 |
| 10.00 % <i>Panicum virgatum</i> , Coastal Plain NC Ecotype | Redtop/Panicgrass, Coastal Plain NC Ecotype | 48.00 |
| 5.00 % <i>Echinacea purpurea</i> | Purple Coneflower | 36.00 |
| 3.00 % <i>Chamaecrista fasciculata</i> | Lanceleaf Coneopsis | 24.00 |
| 3.00 % <i>Audubonia hirta</i> | Black-eyed Susan | 20.00 |
| 2.00 % <i>Carex scoparia</i> , PA Ecotype | Blunt Broom Sedge, PA Ecotype | 72.00 |
| 2.00 % <i>Chamaecrista fasciculata</i> , PA Ecotype | Partridge Pea, PA Ecotype | 10.00 |
| 2.00 % <i>Eupatorium coelestinum</i> , PA Ecotype | Millflower, VA Ecotype | 128.00 |
| 2.00 % <i>Heliopsis helianthoides</i> , PA Ecotype | Cheery Sunflower, PA Ecotype | 42.00 |
| 2.00 % <i>Pennisetum digitatum</i> , PA Ecotype | Tall White Beardgrass, PA Ecotype | 160.00 |
| 1.00 % <i>Asclepias incarnata</i> , PA Ecotype | Swamp Milkweed, PA Ecotype | 160.00 |
| 1.00 % <i>Juncus effusus</i> | Soft Rush | 40.00 |
| 1.00 % <i>Juncus tenuis</i> , PA Ecotype | Path Rush, PA Ecotype | 60.00 |
| 1.00 % <i>Liatris spicata</i> | Marsh (Dense) Blazing Star (Spiked Gayfeather) | 210.00 |
| 0.80 % <i>Aster novae-angliae</i> , PA Ecotype | New England Aster, PA Ecotype | 360.00 |
| 0.70 % <i>Aster lateriflorus</i> | Calico Aster, NY Ecotype | 300.00 |
| 0.50 % <i>Senna hebecarpa</i> , VA & WV Ecotype | Orange Coneflower, Northern VA Ecotype | 24.00 |
| 0.40 % <i>Morone fasciata</i> , Fort Indiantown Gap-PA Ecotype | Wild Bergamot, Fort Indiantown Gap-PA Ecotype | 160.00 |
| 0.30 % <i>Psycotermum tenuifolium</i> | Narrowleaf Mountainmint | 140.00 |
| 0.30 % <i>Solidago juncea</i> , PA Ecotype | Early Goldenrod, PA Ecotype | 280.00 |

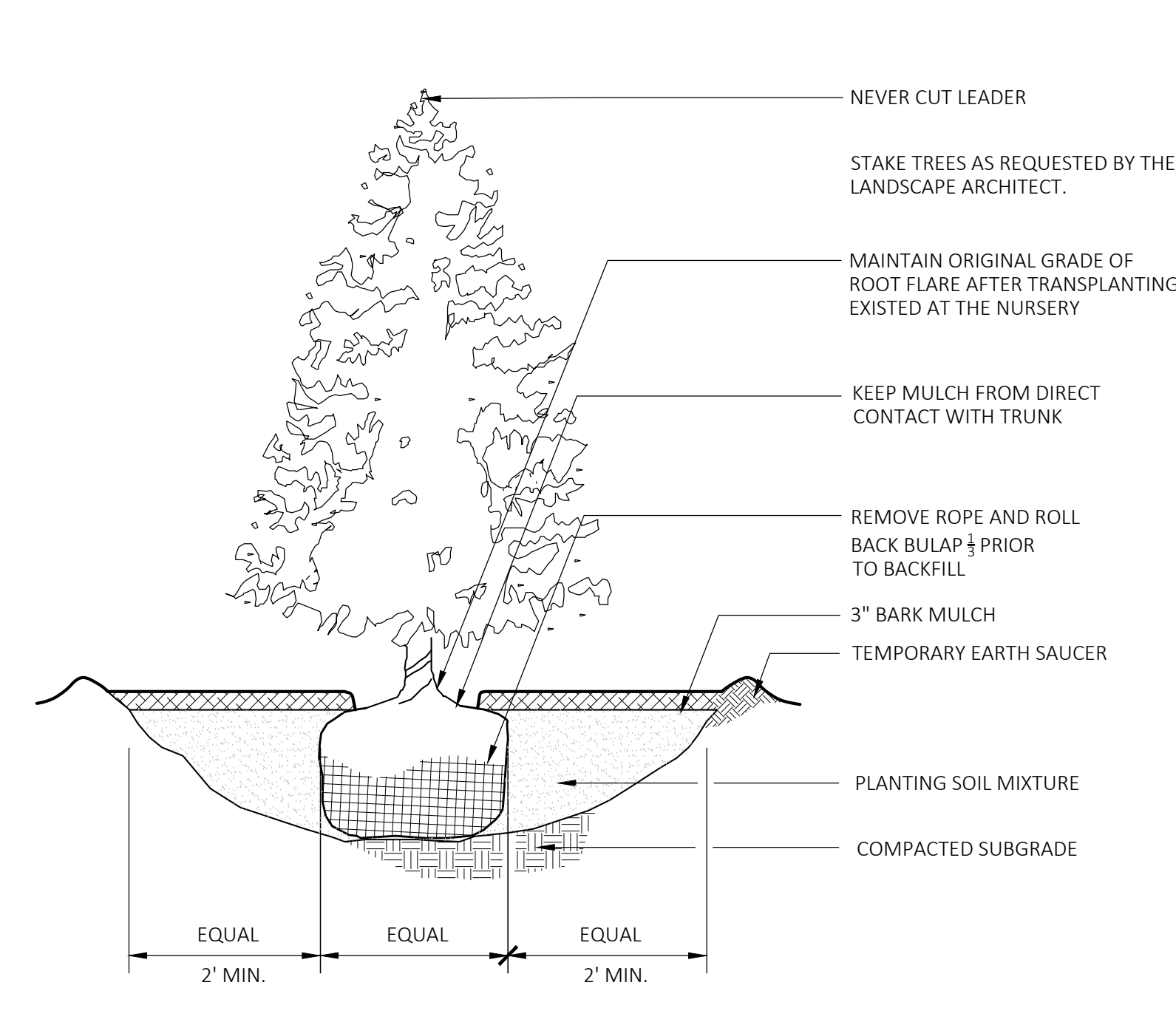
100.00 % Mix Price/lb Bulk: \$37.29

Seeding Rate: 20 lb per acre with a cover crop of grain rye at 30 lb per acre
Uplands & Meadows

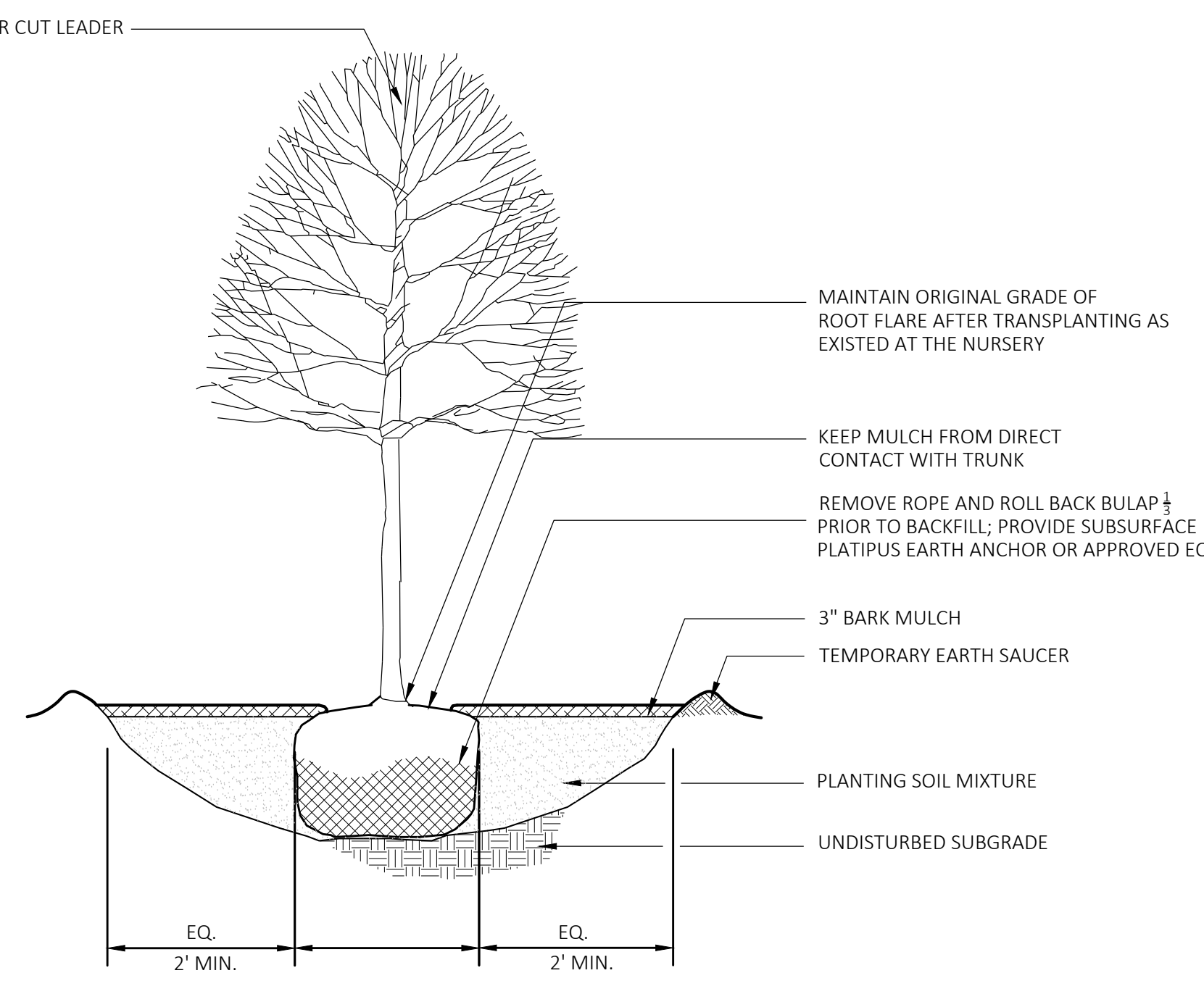
The native perennial forbs and grasses provide food and cover for rain garden biodiversity. Mix formulations are subject to change without notice depending on the availability of existing and new products. While the formula may change, the guiding philosophy and function of the mix will not.

Price quotes guaranteed for 30 days.
All prices are FOB Meadville, PA.
Please check our web site at www.ernstseed.com
for current pricing when placing orders.

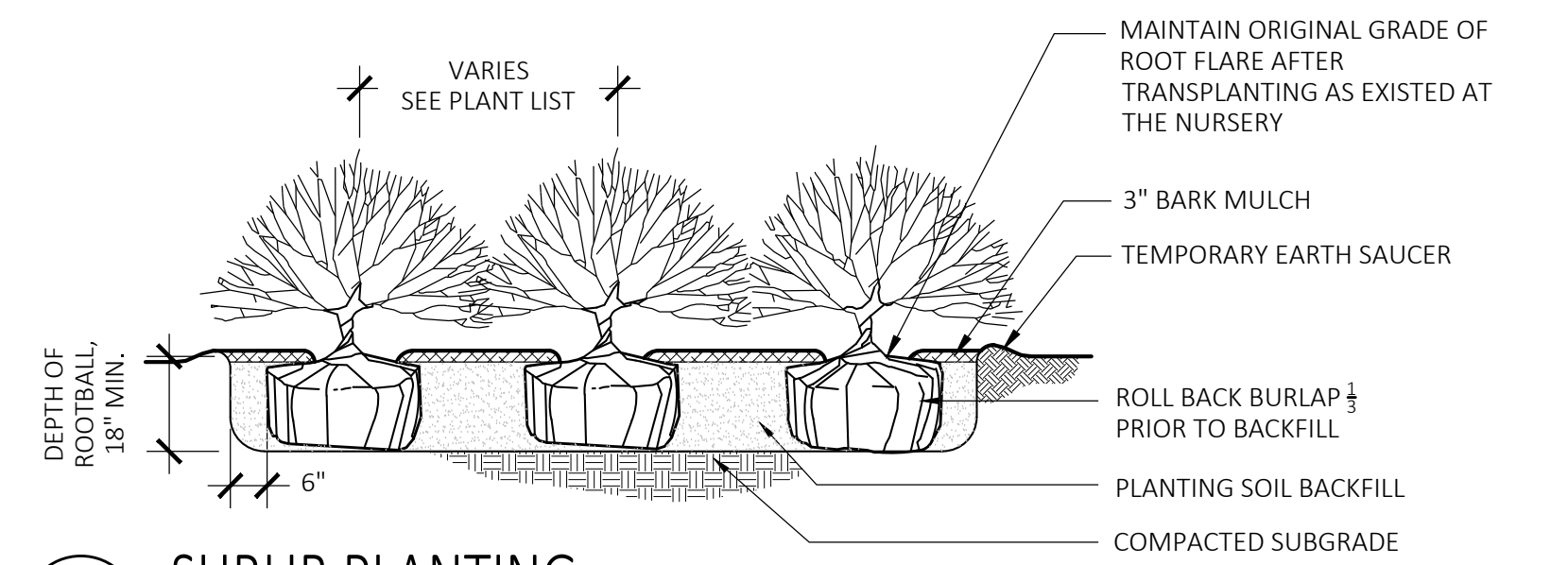
3 SEED MIX 2 - RAIN GARDEN MIX
SCALE: N.T.S.



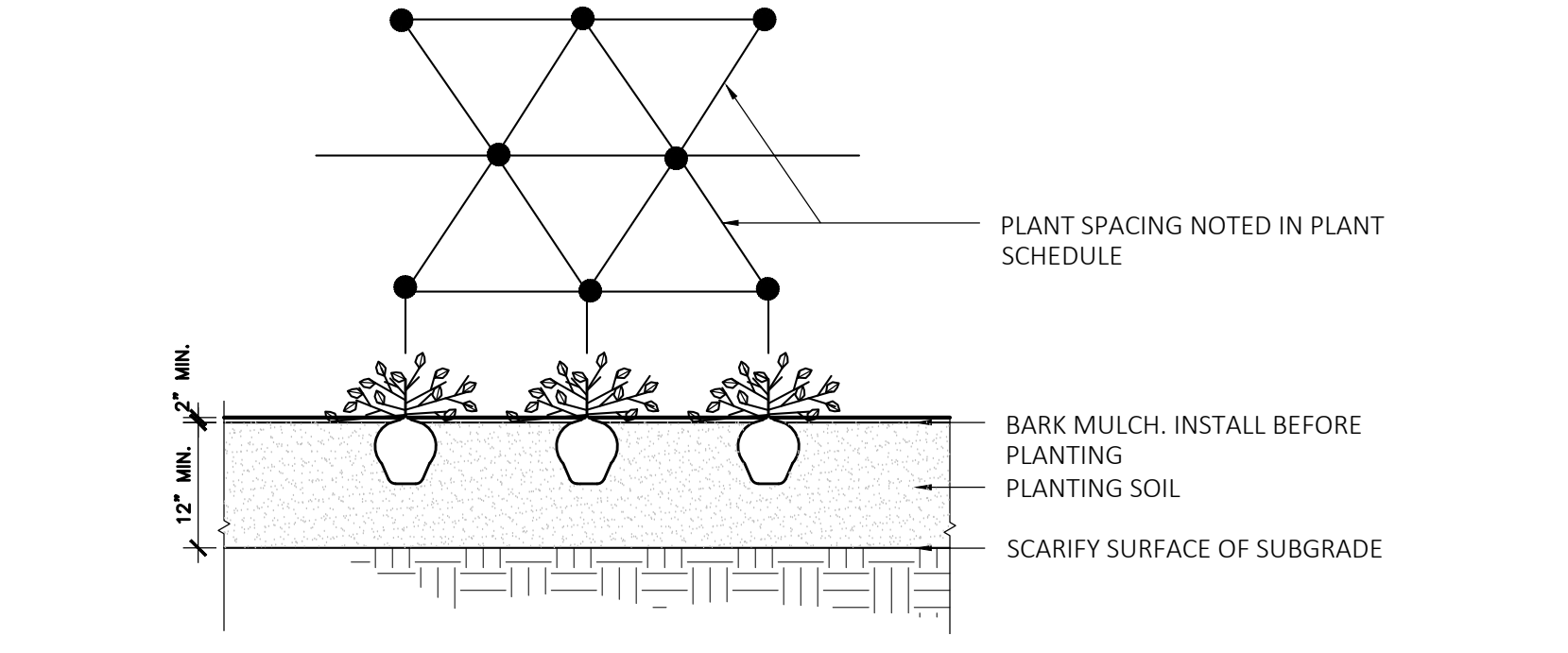
4 EVERGREEN TREE PLANTING
SCALE: N.T.S.



5 DECIDUOUS TREE PLANTING
SCALE: N.T.S.



6 SHRUB PLANTING
SCALE: N.T.S.



7 GROUNDCOVER PLANTING
SCALE: N.T.S.

| | | | |
|----------------|--|----------------------------------|----------------|
| Bollard lights | | Generated on: 03-22-2023 7:54 pm | Arcluce |
| Project | | | |
| TYPE | | | |
| Catalog# | | | |
| NOTES | | | |

KLOU180 large

Arcluce Code: **SL-KL0203US-12S** Installation instructions IES photometry

| TECHNICAL INFORMATION | |
|--------------------------|---------------------------------|
| Light source: | LED, 3000K, CRB-80 |
| Light efficiency: | 73lm/W |
| Power luminaire: | 39W, 1400lm |
| LED life time: | > 60,000h - L80 - B20 (Ta 25°C) |
| High colour consistency: | < 3 SDCM |
| Wiring: | 120-277V 60Hz DIMM |
| Optics: | recessed |
| Color: | Black - 12 |
| Height: | 24.0" ± 0.1 |
| Size: | A: 8" 3/4 B: 3" 3/8 |

- Construction**
- Die-cast aluminum body (EN 47100)
 - Extruded aluminum pole
 - Double layer polyester powder paint resistant to corrosion and self-spraying fog
 - Silicone rubber gaskets
 - ANSI 316 stainless steel external screws
- Electrical & Optics**
- Universal input voltage: 120-277V 50/60Hz
 - 0-10V dimming available
 - Wiring on removable gasketed steel tray
 - High-efficiency LEDs with standard 3000K, 4000K (2700K or other CCTs available on request)
 - Reflector made of anodized aluminum with non-reflective specular finishing
 - UV UVs stabilized, 850° glow wire test resistant, V2 self-extinguishing clear polycarbonate screen
- Listings**
- UL certified to U.S. and Canadian standards, suitable for wet locations (UL wet mark)
 - Suitable for mounting within 1.2 m (4 ft) of ground
 - Rated IP66 per EN60598
 - Luminaire rated for 40°C minimum ambient temperature on selected model variants
 - High quality LED sources characterized according to IES TM-30, with high color consistency <3SDCM and long useful life (50,000 hours at L80)
- Installation**
- Surface installation
 - Die-cast aluminum base (EN 47100) for anchoring with rebar
 - Supplied with steel base plate and shaped anchor bolts
 - Available on request: encased steel pillar for reinforced anchoring
 - Supplied with power cord (18AWG conductors)



Arcluce North America Inc. 333 Bush Street - San Francisco, CA 94104 - Ph: +1 (408) 856-6275 - export@arcluce.it arcluce-us.com

1 BL1 SCALE: N.T.S.

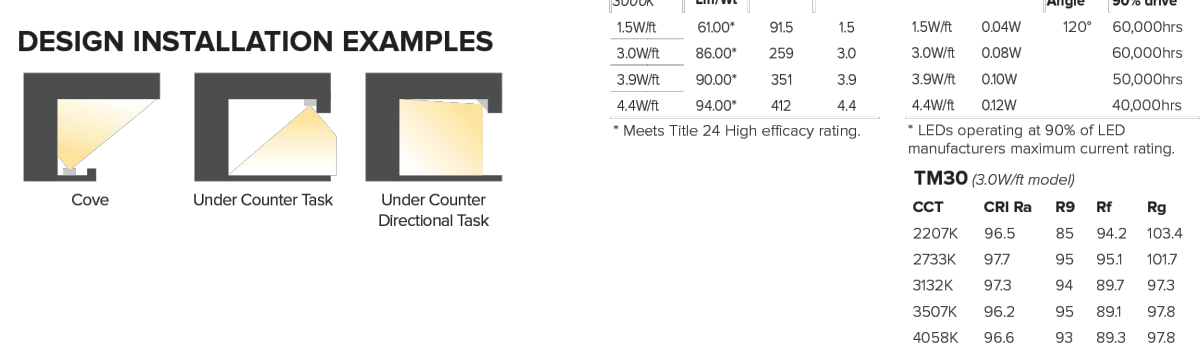
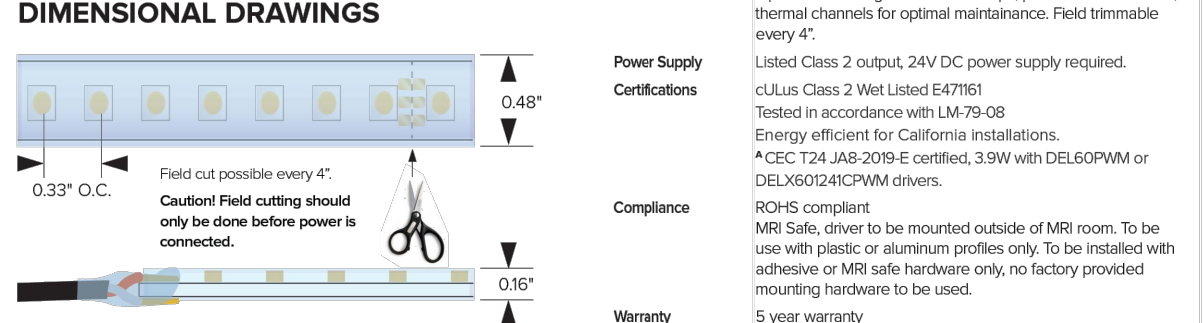
2 SL3, SL4, SL4-2 FIXTURE SCALE: N.T.S.

3 SL3, SL4, SL4-2 POST SCALE: N.T.S.

4 WL1, WL4 SCALE: N.T.S.

DURATAPE™ ES IP66 OUTDOOR

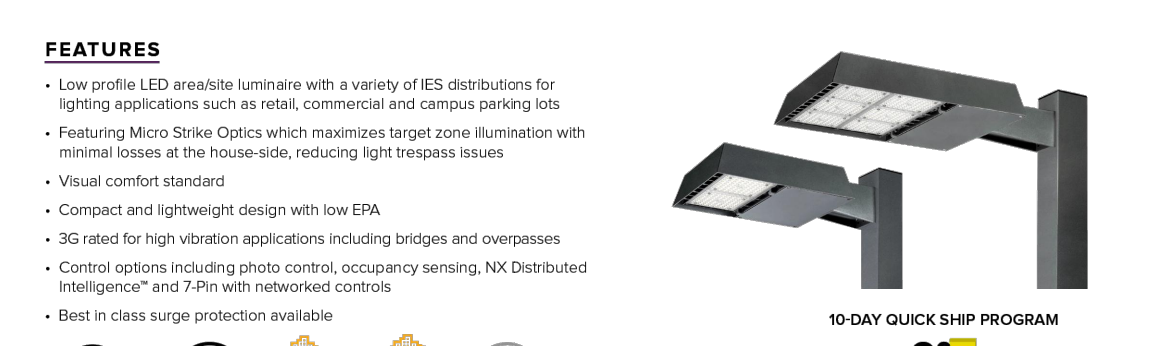
- KEY FEATURES**
- Energy efficient high-milrow output, narrow spaced essential white LED flexible linear light strip for continuous, consistent color in linear applications
 - Ideal for IP66 exterior case, under-counter, cabinet, lighting accents
 - Complete with enclosed silicone jacket for outdoor rated IP66, lock per foot
 - Features 2-circuit substrate for optimum heat dissipation, minimizing voltage drop while increasing run lengths per power feed, standardizing electrical flow over entire length of the strip for maximum product reliability
 - Features double sided solder joints for maximum conductivity and durability
 - Pre-assembled to specific lengths with various connector options for project requirements and efficient power configuration
 - Max continuous length:
 - up to 30' per run (1.5W/ft)
 - up to 22' per run (2.0W/ft)
 - up to 15' per run (2.5W/ft)
 - up to 10' per run (4.0W/ft)
 - Multiple dimming options available



| PRODUCT CODE | INTENSITY | WATTAGE | IP RATING | COLOR TEMP. CH | VOLTAGE | END FEED | MOUNTING | POWER SUPPLY |
|-------------------|--------------|---------|------------------|----------------|---------------------|----------|----------|--------------|
| DL - Duratape™ ES | Essential 16 | 1.5W/ft | 0 - Outdoor IP66 | 27 - 2700K | HC - 195 CR - 24VDC | | | |
| | White | 3.0 | 30 - 3000K | | | | | |
| | | 3.9 | 39 - 3500K | | | | | |
| | | 4.4 | 44 - 4000K | | | | | |

5 WL3 SCALE: N.T.S.

DATE: _____ LOCATION: _____
TYPE: _____ PROJECT: _____
CATALOG #:



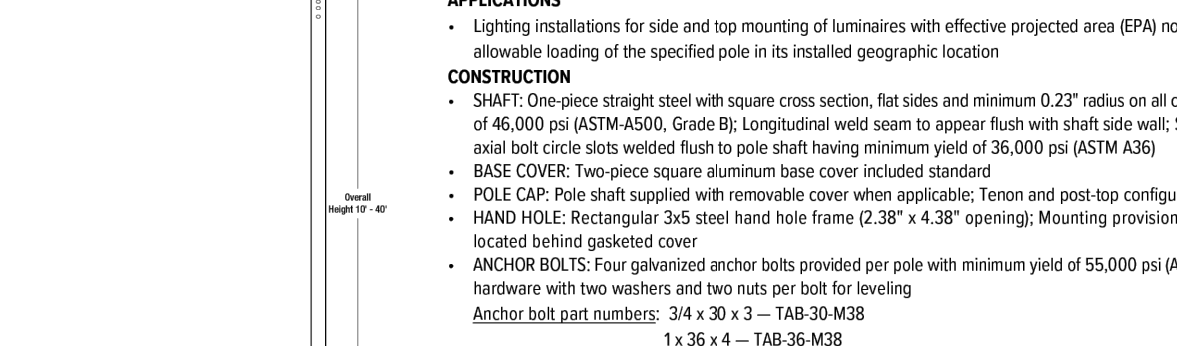
BEACON RATIO Series AREA SITE LIGHTER

CONTROL TECHNOLOGY

NX LIGHTING CONTROLS WISCAPE

- FEATURES**
- Low profile LED available luminaire with a variety of IES distributions for lighting applications such as retail, commercial and campus parking lots
 - Featuring Micro Scribe Optics which maximizes target zone illumination with minimal losses at the house-side, reducing light trespass issues
 - Visual comfort standard
 - Compact and lightweight design with low EPIA
 - 3G rated for high vibration applications including bridges and overpasses
 - Control options including photo control, occupancy sensing, NX Distributed Intelligence™ and 2-Fin with recessed controls
 - Best in class surge protection available
- CONSTRUCTION**
- Low profile LED available luminaire with a variety of IES distributions for lighting applications such as retail, commercial and campus parking lots
 - Featuring Micro Scribe Optics which maximizes target zone illumination with minimal losses at the house-side, reducing light trespass issues
 - Visual comfort standard
 - Compact and lightweight design with low EPIA
 - 3G rated for high vibration applications including bridges and overpasses
 - Control options including photo control, occupancy sensing, NX Distributed Intelligence™ and 2-Fin with recessed controls
 - Best in class surge protection available
- FINISH**
- Durable thermostat polyester powder coat paint finish with nominal 3.0 mil thickness
 - Powder paint prime applied over "white metal" steel substrate cleaned via mechanical shot blast method
 - Decorative finish coat available in multiple standard colors; Custom colors available; RAL number preferable
- WAREHOUSE STOCKED POLES:**
- SS302-404-HV-09-RDC, SS315-404-HV-08-RDC and SS303-508-4-HV-08-RDC
 - The HV designation in the above catalog numbers is a combination drill pattern of the Current S2 pattern and the Beacon B3/B4 Viper pattern (rectangular arm mounting)
- KEY DATA**
- | | |
|--------------------------------|------------------------|
| Lumen Range | 1,000 - 48,000 |
| Wattage Range | 25 - 340 |
| Efficacy Range (LPW) | 118 - 155 |
| Fixture Projected Life (Hours) | 1,700-60K |
| Weights lbs. (kg) | 13.5 - 24 (6.1 - 10.9) |

DATE: _____ LOCATION: _____
TYPE: _____ PROJECT: _____
CATALOG #:



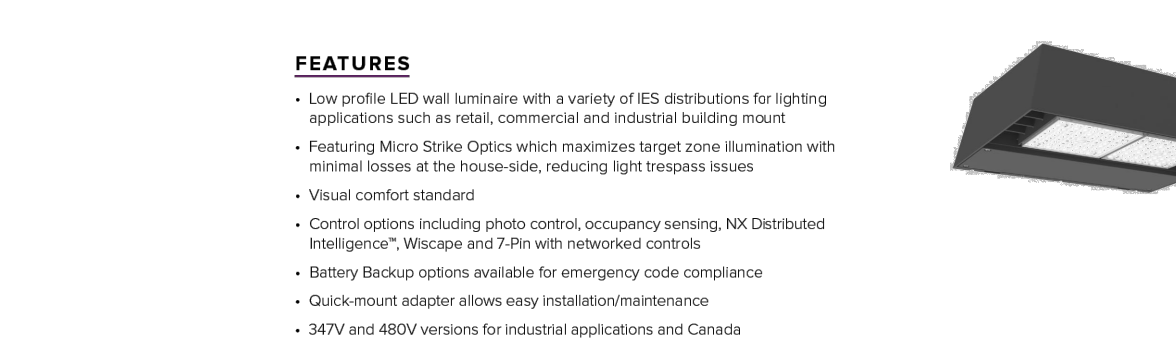
BEACON SSS-B Series POLES SQUARE STRAIGHT STEEL

CONTROL TECHNOLOGY

NX LIGHTING CONTROLS WISCAPE

- APPLICATIONS**
- Lighting installations for side and top mounting of luminaires with effective projected area (EPA) not exceeding maximum allowable loading of the specified pole in its installed geographic location
- CONSTRUCTION**
- SHAF1: One-piece straight steel with square cross section, flat sides and minimum 0.23" radius on all corners; Minimum yield of 46,000 psi (ASTM A500, Grade B); Longitudinal weld seam to appear flush with shaft side wall; Steel base plate with wall bolt circle slots welded flush to pole shaft having minimum yield of 36,000 psi (ASTM A306)
 - BASE COVER: Two-piece square aluminum base cover included standard
 - POLE CAP: Pole shaft supplied with removable cover when applicable; Tenon and post-top configurations also available
 - HAND HOSE: Rectangular 3/8" steel hand hose frame (2.38" x 4.38" opening); Mounting provisions for grounding lug located behind gasketed cover
 - ANCHOR BOLTS: Four galvanized anchor bolts provided per pole with minimum yield of 55,000 psi (ASTM F1554); Galvanized hardware with two washers and two nuts per bolt for welding
Anchor bolt part numbers: 3/4 x 30 x 3 - TAB-30-M3B
1 x 36 x 4 - TAB-36-M3B
- FINISH**
- Durable thermostat polyester powder coat paint finish with nominal 3.0 mil thickness
 - Powder paint prime applied over "white metal" steel substrate cleaned via mechanical shot blast method
 - Decorative finish coat available in multiple standard colors; Custom colors available; RAL number preferable
- WAREHOUSE STOCKED POLES:**
- SS302-404-HV-09-RDC, SS315-404-HV-08-RDC and SS303-508-4-HV-08-RDC
 - The HV designation in the above catalog numbers is a combination drill pattern of the Current S2 pattern and the Beacon B3/B4 Viper pattern (rectangular arm mounting)
- ORDERING INFORMATION**
- Reference page 2 for available configurations
- ORDERING EXAMPLE: SSS-B - 25 - 40 - A/B/C - 2L - B3 - BLT - UL
- | STATUS | HEIGHT | SHAFT | THICKNESS | MOUNTING | FINISH | OPTIONS |
|---------------------------------------|-----------------|-----------------|-----------------|-----------------|-----------------|-----------------|
| SS3-B Square Straight Steel Pole Base | Ordering page 2 | Ordering page 2 | Ordering page 2 | Ordering page 2 | Ordering page 2 | Ordering page 2 |
- MOUNTING ORIENTATION**
1. Removable tenon used in conjunction with side arm mounting. The tenon must be installed in the vertical position. See page 2 for details.
2. Specify other tenon arm type, tenon or page 2 (Other Orientation)
3. We recommend a pole 2" outside with 1/2" hole in tenon.
- ACCESSORIES - Order Separately**
- | Catalog Number | Description |
|----------------|---------------------------|
| ME5XX | 2nd mode vibration damper |
- DRILL PATTERN**
- | Code | Dimensions |
|------|---|
| B1 | Circle: 3/8" diam |
| B2 | 2-bolt (2-1/2" spacing), Viper™ 3/8" diam |
| B3 | 2-bolt (2-1/2" spacing), Viper™ 3/8" diam |

DATE: _____ LOCATION: _____
TYPE: _____ PROJECT: _____
CATALOG #:



BEACON RATIO Wall RWL/RWL2 LED WALL PACK

CONTROL TECHNOLOGY

NX LIGHTING CONTROLS WISCAPE

- FEATURES**
- Low profile LED wall luminaire with a variety of IES distributions for lighting applications such as retail, commercial and industrial building mount
 - Featuring Micro Scribe Optics which maximizes target zone illumination with minimal losses at the house-side, reducing light trespass issues
 - Visual comfort standard
 - Control options including photo control, occupancy sensing, NX Distributed Intelligence™, Wiscape and 2-Fin with recessed controls
 - Battery Backup options available for emergency code compliance
 - Quick-mount adapter allows easy installation/maintenance
 - 347V and 480V versions for industrial applications and Canada
- CONSTRUCTION**
- Die-cast housing with hidden vertical heat fins that are optimal for heat dissipation while keeping a clean smooth outer surface
 - Corrosion resistant, die-cast aluminum housing with powder coat paint finish
 - Powder paint finish provides durability in outdoor environments. Tested to meet 1000 hour salt spray rating
 - Entire optical aperture illuminates to create a large luminous surface area resulting in a low glare appearance without sacrificing optical performance
 - 48 or 90 midpower LEDs
 - 3000K, 4000K or 5000K (D0 CR80 CR CCT
 - Zenon light distributions
 - LED optics provide IES type I, II and IV distributions. Type IV available in RWL2 configurations
- INSTALLATION**
- Quick-mount adapter provides easy installation to wall or recessed junction boxes (if square junction box)
 - Designed for direct (D) box mount
 - Integral back box contains 12" conduit hubs
 - Integral back box standard with Dual Driver Dual Power Feed, NX, Wiscape and battery versions (battery version for RWL only)
 - Integral Battery Backup provides emergency lighting for the required 90 minute path of egress
 - Battery Backup suitable for connecting temperatures 25°C to 40°C. RWL1 battery is 12.5V RWL2 battery is 9.6V
- KEY DATA**
- | | |
|----------------------|-------------------|
| Lumen Range | 1,300 - 19,300 |
| Wattage Range | 10 - 155 |
| Efficacy Range (LPW) | 103 - 148 |
| Weights lbs. (kg) | 5.5/2.5 (2.5/1.1) |

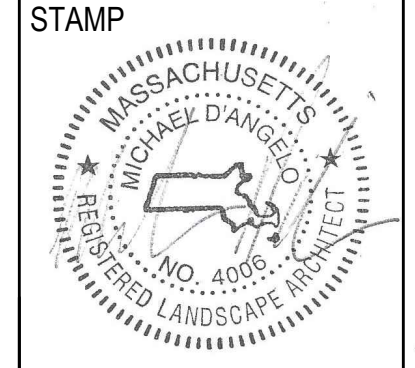
MDLA
MICHAEL D'ANGELO landscape architecture

MICHAEL D'ANGELO LANDSCAPE ARCHITECTURE LLC
840 SUMMER STREET
SUITE 301A
BOSTON, MA 02127
1. 203.592.4788
www.m-d-a.com

CLIENT: BERKELEY PARTNERS
PROJECT: WAREHOUSE / INDUSTRIAL DEV. 100 / 200 FINANCIAL PARK FRANKLIN, MA
1 WASHINGTON MALL, SUITE 701 BOSTON, MA

WAREHOUSE / INDUSTRIAL DEV. 100 / 200 FINANCIAL PARK FRANKLIN, MA

WAREHOUSE / INDUSTRIAL DEV. 100 / 200 FINANCIAL PARK FRANKLIN, MA



| REV. NO. | DATE | DESCRIPTION |
|----------|---------|----------------------|
| 1 | 5/11/23 | FOR PERMIT |
| 1 | 7/17/23 | RESPONSE TO COMMENTS |
| 2 | 8/10/23 | RESPONSE TO COMMENTS |
| 3 | 8/28/23 | RESPONSE TO COMMENTS |

LIGHTING SCHEDULE & CUT SHEETS

| | |
|-------------------|------|
| DRAWN: NC | L116 |
| CHECKED: AS NOTED | |
| SCALE: AS NOTED | |
| DATE: 5/11/2023 | |

SHEET 17 OF 24

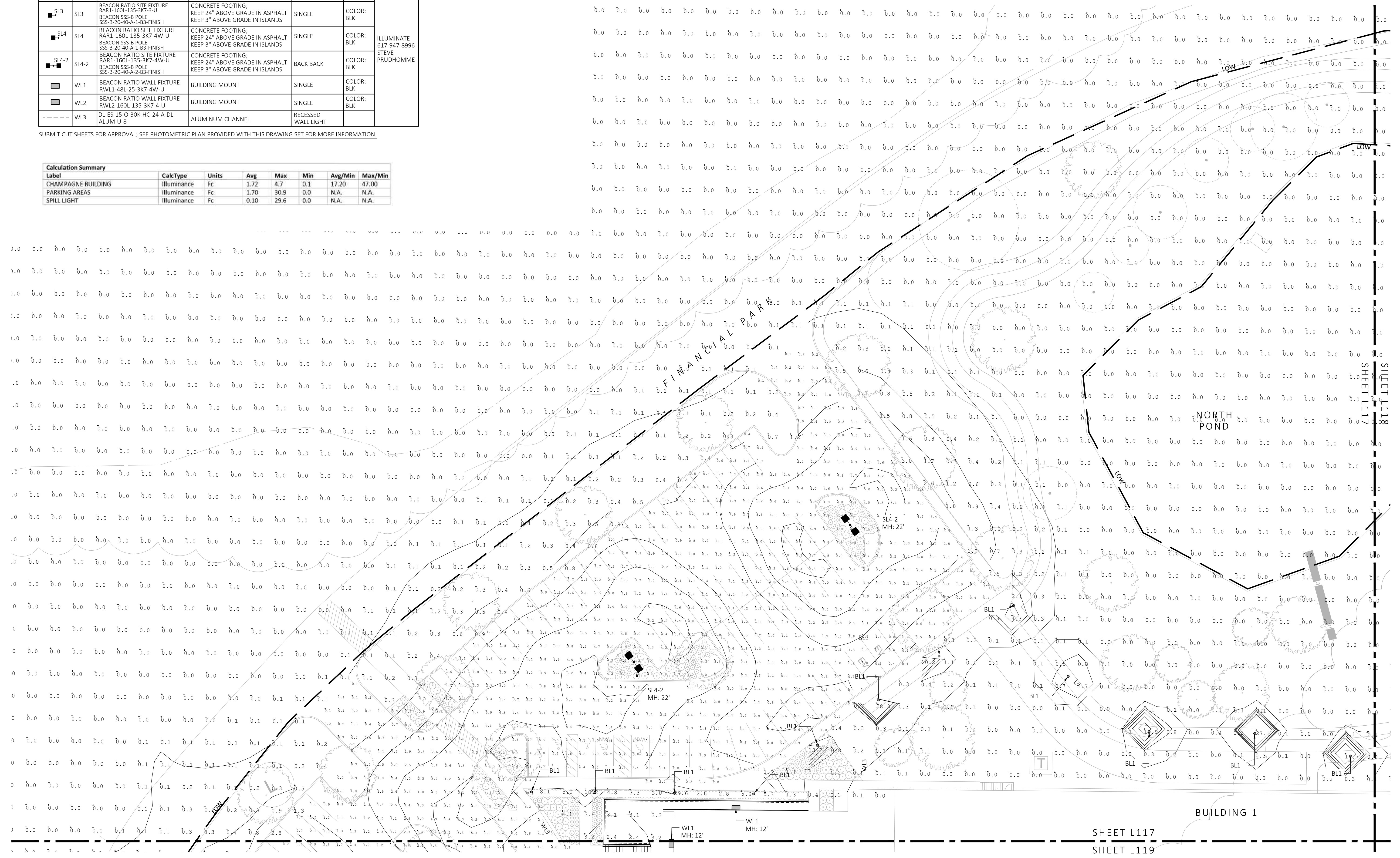
plot date: 8/25/2023

FOR PERMIT ONLY
NOT FOR CONSTRUCTION

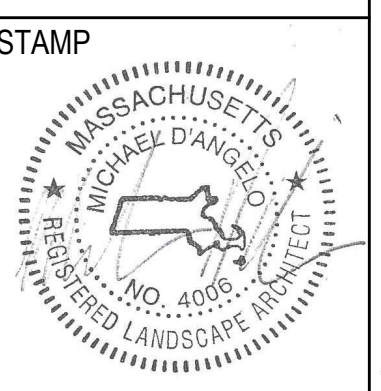
| SYMBOL | LABEL | MODEL | MOUNT | ARRANGEMENT | OPTIONS | REP |
|--------|-------|---|--|------------------------|----------------|--|
| ○ | BL1 | ARLUCE KLOU180 BOLLARD RWL1-48L-25-3K7-4W-U | CONCRETE FOOTING; KEEP 3" ABOVE GRADE | PEDESTRIAN BOLLARD | COLOR: GRAY | |
| ■ | SL3 | BEACON RATIO SITE FIXTURE RAR1-160L-135-3K7-3-U BEACON 555-B POLE 555-B-20-40-A-1-89-FINISH | CONCRETE FOOTING; KEEP 24" ABOVE GRADE IN ASPHALT KEEP 3" ABOVE GRADE IN ISLANDS | SINGLE | COLOR: BLK | ILLUMINATE 617-947-8996 STEVE PRUDHOMME |
| ■ | SL4 | BEACON RATIO SITE FIXTURE RAR1-160L-135-3K7-4W-U BEACON 555-B POLE 555-B-20-40-A-1-89-FINISH | CONCRETE FOOTING; KEEP 24" ABOVE GRADE IN ASPHALT KEEP 3" ABOVE GRADE IN ISLANDS | SINGLE | COLOR: BLK | |
| ■ | SL4-2 | BEACON RATIO SITE FIXTURE RAR1-160L-135-3K7-4W-U BEACON 555-B POLE 555-B-20-40-A-2-89-FINISH | CONCRETE FOOTING; KEEP 24" ABOVE GRADE IN ASPHALT KEEP 3" ABOVE GRADE IN ISLANDS | BACK BACK | COLOR: BLK | |
| □ | WL1 | BEACON RATIO WALL FIXTURE RWL1-48L-25-3K7-4W-U | BUILDING MOUNT | SINGLE | COLOR: BLK | |
| □ | WL2 | BEACON RATIO WALL FIXTURE RWL2-160L-135-3K7-4-U | BUILDING MOUNT | SINGLE | COLOR: BLK | |
| --- | WL3 | DL-ES-15-O-30K-HC-24-A-DL- ALUM-U-8 | ALUMINUM CHANNEL | RECESSED WALL LIGHT | | |

SUBMIT CUT SHEETS FOR APPROVAL; SEE PHOTOMETRIC PLAN PROVIDED WITH THIS DRAWING SET FOR MORE INFORMATION.

| Label | CalcType | Units | Avg | Max | Min | Avg/Min | Max/Min |
|--------------------|-------------|-------|------|------|-----|---------|---------|
| CHAMPAGNE BUILDING | illuminance | Fc | 1.72 | 4.7 | 0.1 | 17.20 | 47.00 |
| PARKING AREAS | illuminance | Fc | 1.70 | 30.9 | 0.0 | N.A. | N.A. |
| SPILL LIGHT | illuminance | Fc | 0.10 | 29.6 | 0.0 | N.A. | N.A. |



1 PHOTOMETRIC PLAN
SCALE: 1" = 20'-0"

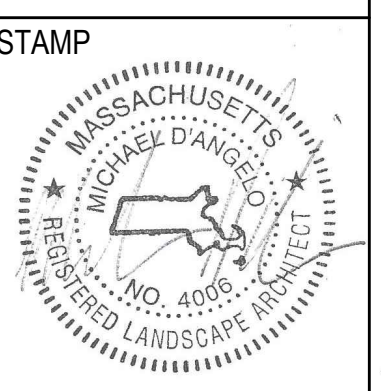


| REV. NO. | DATE | DESCRIPTION |
|----------|---------|----------------------|
| | 5/11/23 | FOR PERMIT |
| 1 | 7/17/23 | RESPONSE TO COMMENTS |
| 2 | 8/10/23 | RESPONSE TO COMMENTS |
| 3 | 8/25/23 | RESPONSE TO COMMENTS |

PHOTOMETRIC PLAN

DRAWN: NC
CHECKED: AS NOTED
SCALE: L117
AS NOTED
DATE: 5/11/2023

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| REV. NO. | DATE | DESCRIPTION |
|----------|---------|----------------------|
| | 5/11/23 | FOR PERMIT |
| 1 | 7/17/23 | RESPONSE TO COMMENTS |
| 2 | 8/10/23 | RESPONSE TO COMMENTS |
| 3 | 8/25/23 | RESPONSE TO COMMENTS |

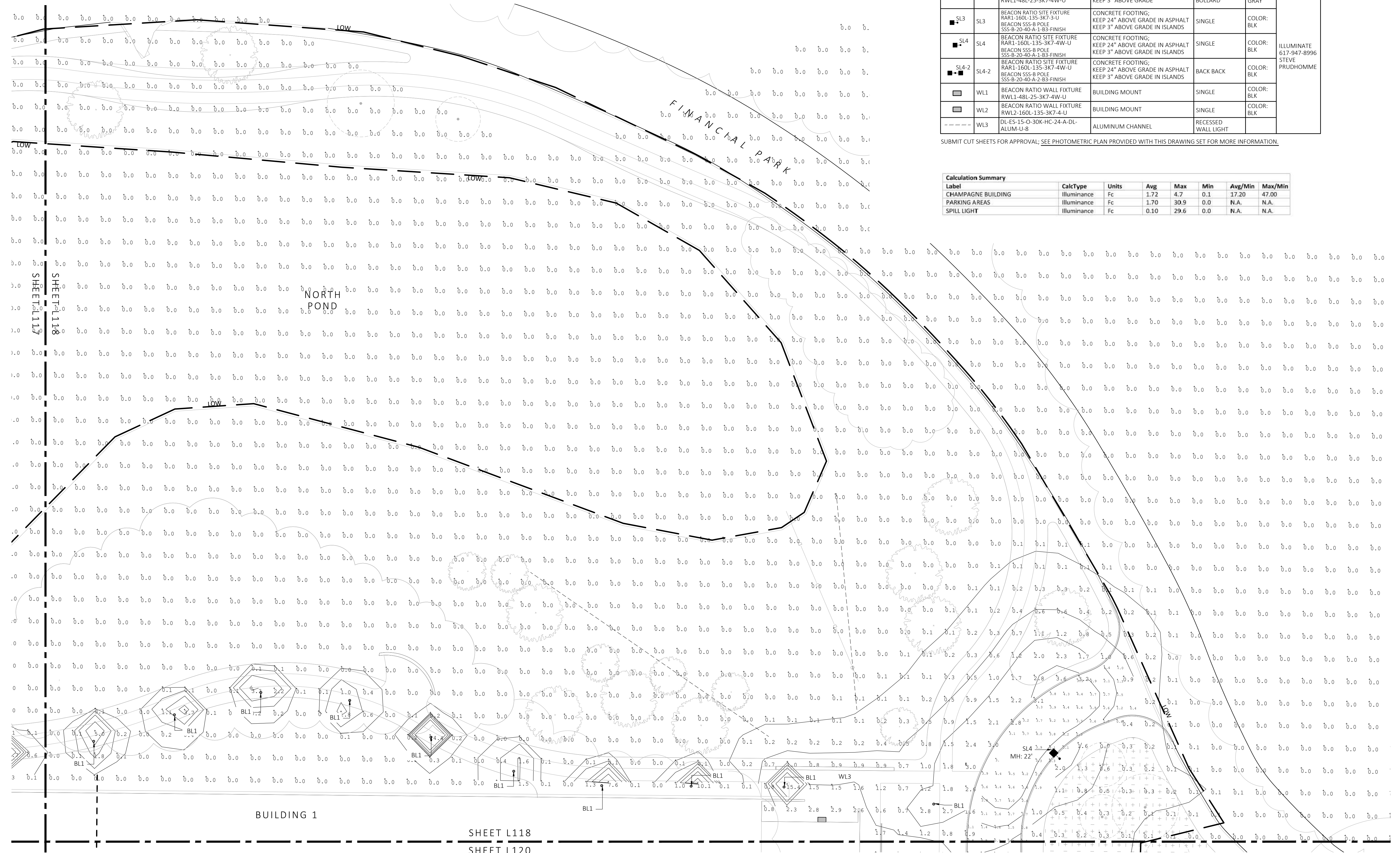
PHOTOMETRIC PLAN

DRAWN: NC
CHECKED: AS NOTED
SCALE: **L118**
AS NOTED
DATE: 5/11/2023

| LIGHT SCHEDULE | | | | | | |
|----------------|-------|---|--|------------------------|----------------|--|
| SYMBOL | LABEL | MODEL | MOUNT | ARRANGEMENT | OPTIONS | REP |
| ○ | BL1 | ARCLUCE KLOU180 BOLLARD RWL1-48L-25-3K7-4W-U | CONCRETE FOOTING; KEEP 3" ABOVE GRADE | PEDESTRIAN BOLLARD | COLOR: GRAY | |
| ■ | SL3 | BEACON RATIO SITE FIXTURE RAR1-160L-135-3K7-3-U BEACON SSS-B POLE SSS-B-20-40-A-1-B3-FINISH | CONCRETE FOOTING; KEEP 24" ABOVE GRADE IN ASPHALT KEEP 3" ABOVE GRADE IN ISLANDS | SINGLE | COLOR: BLK | ILLUMINATE 617-947-8996 STEVE PRUDHOMME |
| ■ | SL4 | BEACON RATIO SITE FIXTURE RAR1-160L-135-3K7-4W-U BEACON SSS-B POLE SSS-B-20-40-A-1-B3-FINISH | CONCRETE FOOTING; KEEP 24" ABOVE GRADE IN ASPHALT KEEP 3" ABOVE GRADE IN ISLANDS | SINGLE | COLOR: BLK | |
| ■ | SL4-2 | BEACON RATIO SITE FIXTURE RAR1-160L-135-3K7-4W-U BEACON SSS-B POLE SSS-B-20-40-A-1-B3-FINISH | CONCRETE FOOTING; KEEP 24" ABOVE GRADE IN ASPHALT KEEP 3" ABOVE GRADE IN ISLANDS | BACK BACK | COLOR: BLK | |
| □ | WL1 | BEACON RATIO WALL FIXTURE RWL1-48L-25-3K7-4W-U | BUILDING MOUNT | SINGLE | COLOR: BLK | |
| □ | WL2 | BEACON RATIO WALL FIXTURE RWL2-160L-135-3K7-4-U | BUILDING MOUNT | SINGLE | COLOR: BLK | |
| --- | WL3 | DL-ES-15-O-30K-HC-24-A-DL- ALUM-U-8 | ALUMINUM CHANNEL | RECESSED WALL LIGHT | | |

SUBMIT CUT SHEETS FOR APPROVAL; SEE PHOTOMETRIC PLAN PROVIDED WITH THIS DRAWING SET FOR MORE INFORMATION.

| Calculation Summary | | | | | | | |
|---------------------|-------------|-------|------|------|-----|---------|---------|
| Label | CalcType | Units | Avg | Max | Min | Avg/Min | Max/Min |
| CHAMPAGNE BUILDING | Illuminance | Fc | 1.72 | 4.7 | 0.1 | 17.20 | 47.00 |
| PARKING AREAS | Illuminance | Fc | 1.70 | 30.9 | 0.0 | N.A. | N.A. |
| SPILL LIGHT | Illuminance | Fc | 0.10 | 29.6 | 0.0 | N.A. | N.A. |

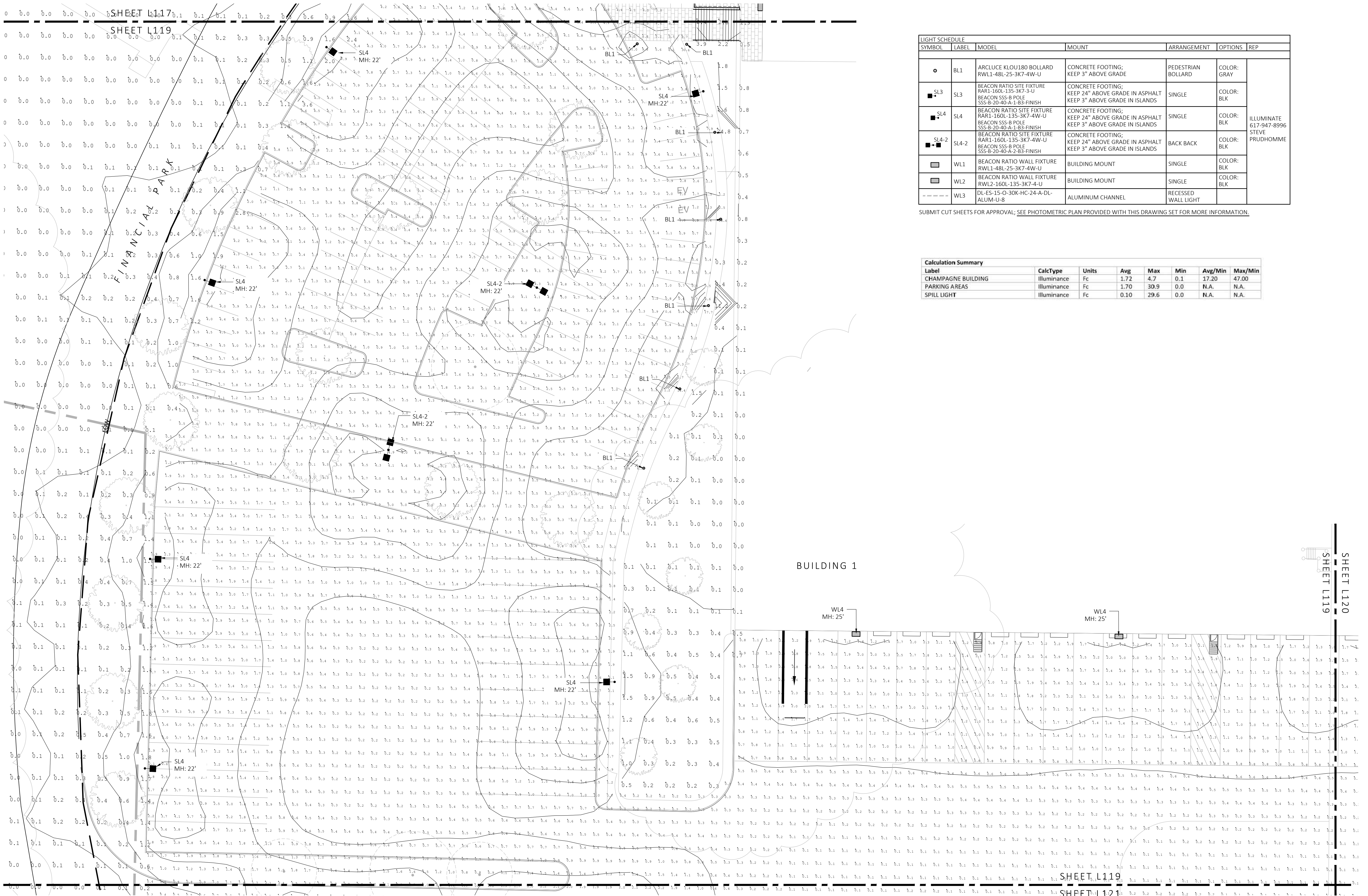


1 PHOTOMETRIC PLAN
SCALE: 1" = 20'-0"



SHEET L118
SHEET L120

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NOT FOR CONSTRUCTION



| LIGHT SCHEDULE | | | | | | |
|----------------|-------|---|--|------------------------|----------------|--|
| SYMBOL | LABEL | MODEL | MOUNT | ARRANGEMENT | OPTIONS | REP |
| ○ | BL1 | ARCLUCE KLOU180 BOLLARD RWL1-48L-25-3K7-4W-U | CONCRETE FOOTING; KEEP 3" ABOVE GRADE | PEDESTRIAN BOLLARD | COLOR: GRAY | |
| ■ | SL3 | BEACON RATIO SITE FIXTURE RARI-160L-135-3K7-3-U BEACON SSS-B POLE SSS-B-20-4G-A-1-B3-FINISH | CONCRETE FOOTING; KEEP 24" ABOVE GRADE IN ASPHALT KEEP 3" ABOVE GRADE IN ISLANDS | SINGLE | COLOR: BLK | ILLUMINATE 617-947-8996 STEVE PRUDHOMME |
| ■ | SL4 | BEACON RATIO SITE FIXTURE RARI-160L-135-3K7-4W-U BEACON SSS-B POLE SSS-B-20-4G-A-1-B3-FINISH | CONCRETE FOOTING; KEEP 24" ABOVE GRADE IN ASPHALT KEEP 3" ABOVE GRADE IN ISLANDS | SINGLE | COLOR: BLK | |
| ■ | SL4-2 | BEACON RATIO SITE FIXTURE RARI-160L-135-3K7-4W-U BEACON SSS-B POLE SSS-B-20-4G-A-2-B3-FINISH | CONCRETE FOOTING; KEEP 24" ABOVE GRADE IN ASPHALT KEEP 3" ABOVE GRADE IN ISLANDS | BACK BACK | COLOR: BLK | |
| ■ | SL4-2 | BEACON RATIO WALL FIXTURE RWL1-48L-25-3K7-4W-U | BUILDING MOUNT | SINGLE | COLOR: BLK | |
| ■ | WL1 | BEACON RATIO WALL FIXTURE RWL2-160L-135-3K7-4-U | BUILDING MOUNT | SINGLE | COLOR: BLK | |
| --- | WL3 | DL-ES-15-O-30K-HC-24-A-DL- ALUM-U-8 | ALUMINUM CHANNEL | RECESSED WALL LIGHT | | |

SUBMIT CUT SHEETS FOR APPROVAL; SEE PHOTOMETRIC PLAN PROVIDED WITH THIS DRAWING SET FOR MORE INFORMATION.

| Calculation Summary | | | | | | | |
|---------------------|-------------|-------|------|------|-----|---------|---------|
| Label | CalcType | Units | Avg | Max | Min | Avg/Min | Max/Min |
| CHAMPAGNE BUILDING | ILLUMINANCE | Fc | 1.72 | 4.7 | 0.1 | 17.20 | 47.00 |
| PARKING AREAS | ILLUMINANCE | Fc | 1.70 | 30.9 | 0.0 | N.A. | N.A. |
| SPILL LIGHT | ILLUMINANCE | Fc | 0.10 | 29.6 | 0.0 | N.A. | N.A. |

1 PHOTOMETRIC PLAN
SCALE: 1" = 20'-0"



MICHAEL D'ANGELO Landscape Architecture

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BERKELEY PARTNERS
1 WASHINGTON MALL, SUITE 701
BOSTON, MA

PROJECT
WAREHOUSE / INDUSTRIAL DEV.
100 / 200 FINANCIAL PARK
FRANKLIN, MA

STAMP

| REV. NO. | DATE | DESCRIPTION |
|----------|---------|----------------------|
| 1 | 5/11/23 | FOR PERMIT |
| 1 | 7/17/23 | RESPONSE TO COMMENTS |
| 2 | 8/10/23 | RESPONSE TO COMMENTS |
| 3 | 8/25/23 | RESPONSE TO COMMENTS |

PHOTOMETRIC PLAN

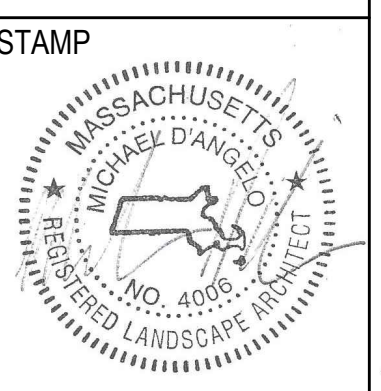
L119

DRAWN: NC
CHECKED: AS NOTED
SCALE: AS NOTED
DATE: 5/11/2023

SHEET 20 OF 24

plot date: 8/25/2023

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| REV. NO. | DATE | DESCRIPTION |
|----------|---------|----------------------|
| 1 | 5/11/23 | FOR PERMIT |
| 2 | 7/17/23 | RESPONSE TO COMMENTS |
| 3 | 8/10/23 | RESPONSE TO COMMENTS |
| 4 | 8/23/23 | RESPONSE TO COMMENTS |

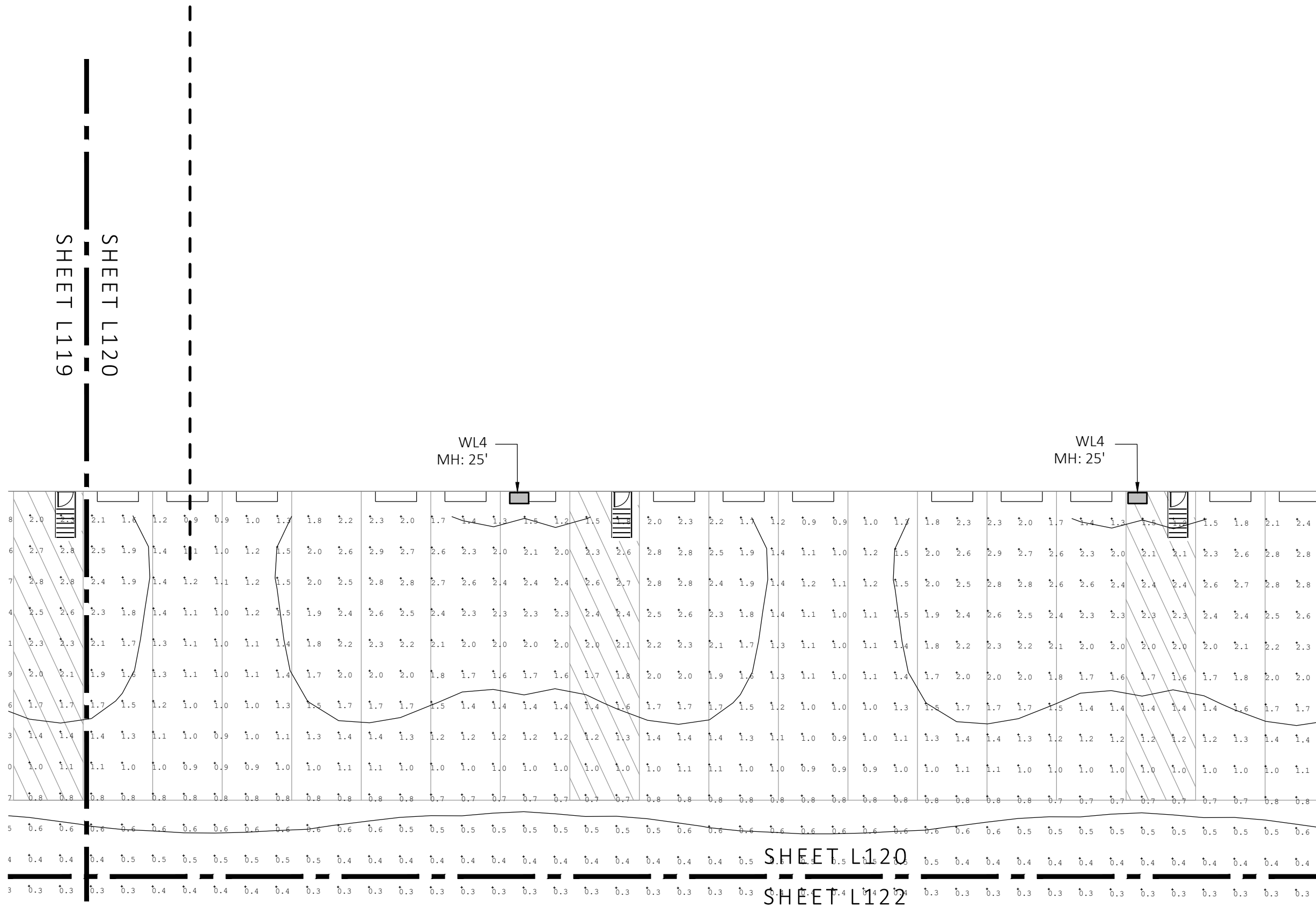
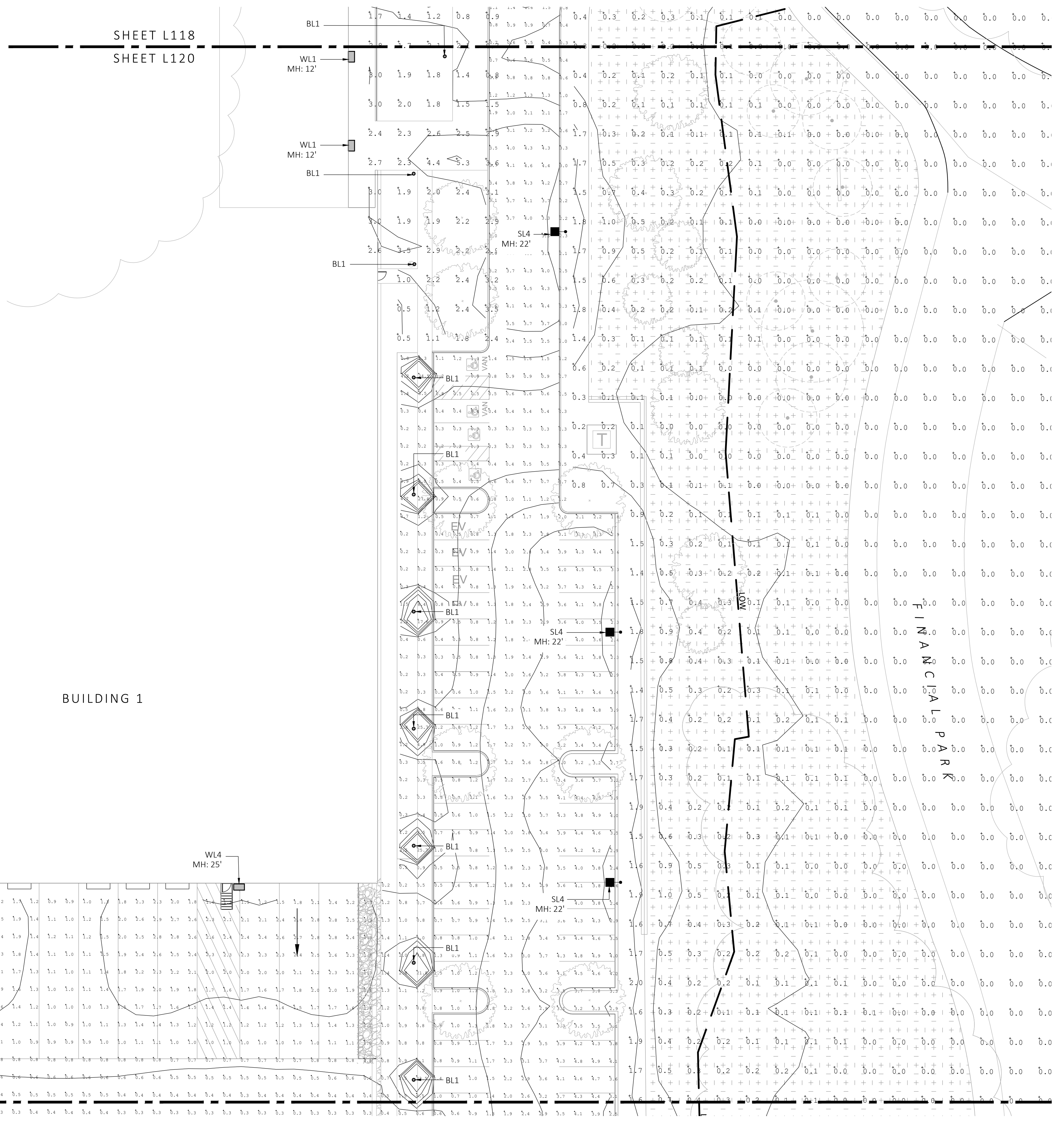
PHOTOMETRIC PLAN

DRAWN: NC
CHECKED: AS NOTED
SCALE: AS NOTED
DATE: 5/11/2023

| SYMBOL | LABEL | MODEL | MOUNT | ARRANGEMENT | OPTIONS | REP |
|--------|-------|---|--|------------------------|----------------|--|
| ○ | BL1 | ARCLUCE KLOU180 BOLLARD RWL1-48L-25-3K7-4W-U | CONCRETE FOOTING; KEEP 3" ABOVE GRADE | PEDESTRIAN BOLLARD | COLOR: GRAY | |
| ■ | SL3 | BEACON RATIO SITE FIXTURE RAR1-160L-135-3K7-3-U BEACON SSS-B-POLE SSS-B-20-40-A-1-B3-FINISH | CONCRETE FOOTING; KEEP 24" ABOVE GRADE IN ASPHALT KEEP 3" ABOVE GRADE IN ISLANDS | SINGLE | COLOR: BLK | |
| ■ | SL4 | BEACON RATIO SITE FIXTURE RAR1-160L-135-3K7-4W-U BEACON SSS-B-POLE SSS-B-20-40-A-1-B3-FINISH | CONCRETE FOOTING; KEEP 24" ABOVE GRADE IN ASPHALT KEEP 3" ABOVE GRADE IN ISLANDS | SINGLE | COLOR: BLK | ILLUMINATE 617-947-8996 STEVE PRUDHOMME |
| ■ | SL4-2 | BEACON RATIO SITE FIXTURE RAR1-160L-135-3K7-4W-U BEACON SSS-B-POLE SSS-B-20-40-A-2-B3-FINISH | CONCRETE FOOTING; KEEP 24" ABOVE GRADE IN ASPHALT KEEP 3" ABOVE GRADE IN ISLANDS | BACK BACK | COLOR: BLK | |
| □ | WL1 | BEACON RATIO WALL FIXTURE RWL1-48L-25-3K7-4W-U | BUILDING MOUNT | SINGLE | COLOR: BLK | |
| □ | WL2 | BEACON RATIO WALL FIXTURE RWL2-160L-135-3K7-4-U | BUILDING MOUNT | SINGLE | COLOR: BLK | |
| --- | WL3 | DL-ES-15-O-30K-HC-24-A-DL- ALUM-U-8 | ALUMINUM CHANNEL | RECESSED WALL LIGHT | | |

SUBMIT CUT SHEETS FOR APPROVAL; SEE PHOTOMETRIC PLAN PROVIDED WITH THIS DRAWING SET FOR MORE INFORMATION.

| Label | CalcType | Units | Avg | Max | Min | Avg/Min | Max/Min |
|--------------------|-------------|-------|------|------|-----|---------|---------|
| CHAMPAGNE BUILDING | illuminance | Fc | 1.72 | 4.7 | 0.1 | 17.20 | 47.00 |
| PARKING AREAS | illuminance | Fc | 1.70 | 30.9 | 0.0 | N.A. | N.A. |
| SPILL LIGHT | illuminance | Fc | 0.10 | 29.6 | 0.0 | N.A. | N.A. |



1 PHOTOMETRIC PLAN
SCALE: 1" = 20'-0"

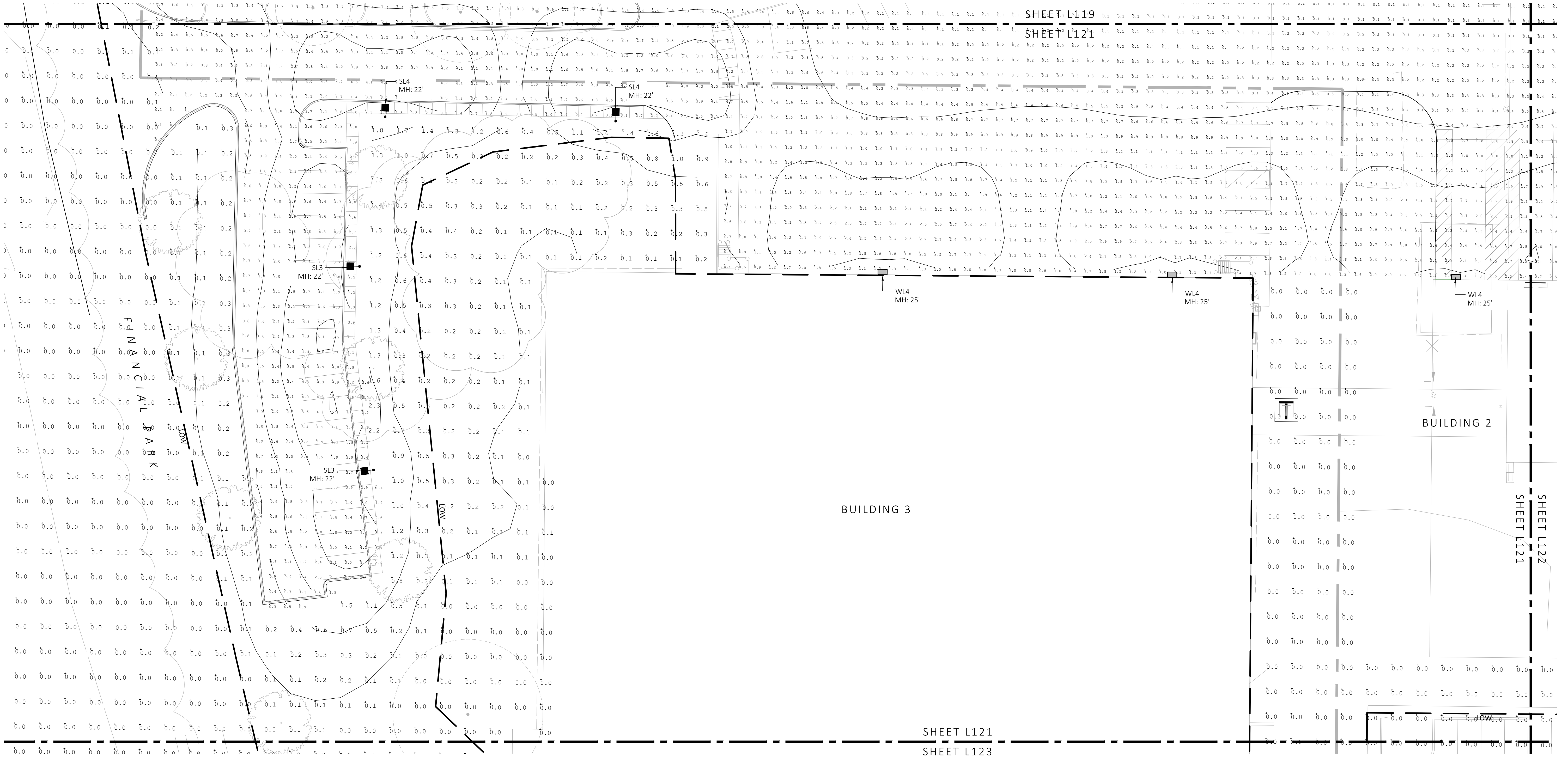


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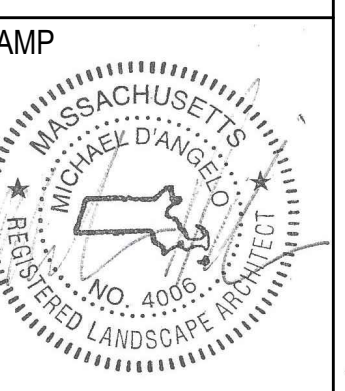
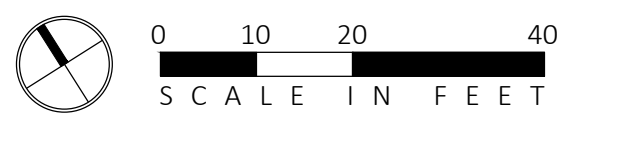
| LIGHT SCHEDULE | | | | | | |
|----------------|-------|---|--|------------------------|----------------|--|
| SYMBOL | LABEL | MODEL | MOUNT | ARRANGEMENT | OPTIONS | REP |
| ○ | BL1 | ARCLUCE KLOU180 BOLLARD RWL1-48L-25-3K7-4W-U | CONCRETE FOOTING; KEEP 3" ABOVE GRADE | PEDESTRIAN BOLLARD | COLOR: GRAY | |
| ■ | SL3 | BEACON RATIO SITE FIXTURE RARI-160L-135-3K7-3-U BEACON SSS-B POLE SSS-B-20-40-A-1-B3-FINISH | CONCRETE FOOTING; KEEP 24" ABOVE GRADE IN ASPHALT KEEP 3" ABOVE GRADE IN ISLANDS | SINGLE | COLOR: BLK | ILLUMINATE 617-947-8996 STEVE PRUDHOMME |
| ■ | SL4 | BEACON RATIO SITE FIXTURE RARI-160L-135-3K7-4W-U BEACON SSS-B POLE SSS-B-20-40-A-1-B3-FINISH | CONCRETE FOOTING; KEEP 24" ABOVE GRADE IN ASPHALT KEEP 3" ABOVE GRADE IN ISLANDS | SINGLE | COLOR: BLK | |
| ■ | SL4-2 | BEACON RATIO SITE FIXTURE RARI-160L-135-3K7-4W-U BEACON SSS-B POLE SSS-B-20-40-A-2-B3-FINISH | CONCRETE FOOTING; KEEP 24" ABOVE GRADE IN ASPHALT KEEP 3" ABOVE GRADE IN ISLANDS | BACK BACK | COLOR: BLK | |
| ■ | WL1 | BEACON RATIO WALL FIXTURE RWL1-48L-25-3K7-4W-U | BUILDING MOUNT | SINGLE | COLOR: BLK | |
| ■ | WL2 | BEACON RATIO WALL FIXTURE RWL2-160L-135-3K7-4-U | BUILDING MOUNT | SINGLE | COLOR: BLK | |
| --- | WL3 | DL-ES-15-O-30K-HC-24-A-DL- ALUM-U-8 | ALUMINUM CHANNEL | RECESSED WALL LIGHT | | |

SUBMIT CUT SHEETS FOR APPROVAL; SEE PHOTOMETRIC PLAN PROVIDED WITH THIS DRAWING SET FOR MORE INFORMATION.

| Calculation Summary | | | | | | | |
|---------------------|-------------|-------|------|------|-----|---------|---------|
| Label | CalcType | Units | Avg | Max | Min | Avg/Min | Max/Min |
| CHAMPAGNE BUILDING | illuminance | Fc | 1.72 | 4.7 | 0.1 | 17.20 | 47.00 |
| PARKING AREAS | illuminance | Fc | 1.70 | 30.9 | 0.0 | N.A. | N.A. |
| SPILL LIGHT | illuminance | Fc | 0.10 | 29.6 | 0.0 | N.A. | N.A. |



1 PHOTOMETRIC PLAN
SCALE: 1" = 20'-0"



| REV. NO. | DATE | DESCRIPTION |
|----------|---------|----------------------|
| | 5/11/23 | FOR PERMIT |
| 1 | 7/17/23 | RESPONSE TO COMMENTS |
| 2 | 8/10/23 | RESPONSE TO COMMENTS |
| 3 | 8/25/23 | RESPONSE TO COMMENTS |

PHOTOMETRIC PLAN

DRAWN: NC
CHECKED: AS NOTED
SCALE: AS NOTED
DATE: 5/11/2023
L121

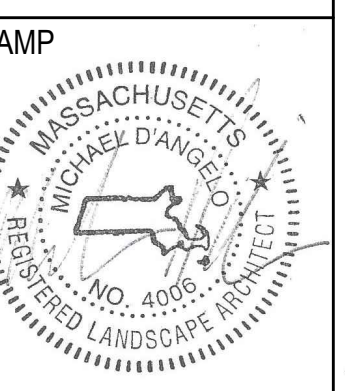
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MDLA
MICHAEL D'ANGELO LANDSCAPE ARCHITECTURE

MICHAEL D'ANGELO
LANDSCAPE ARCHITECTURE LLC
840 SUMMER STREET
SUITE 203A
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CLIENT
BERKELEY PARTNERS
1 WASHINGTON MALL, SUITE 701
BOSTON, MA

PROJECT
WAREHOUSE / INDUSTRIAL DEV.
100 / 200 FINANCIAL PARK
FRANKLIN, MA



| REV. NO. | DATE | DESCRIPTION |
|----------|---------|----------------------|
| 1 | 5/11/23 | FOR PERMIT |
| 2 | 7/17/23 | RESPONSE TO COMMENTS |
| 3 | 8/10/23 | RESPONSE TO COMMENTS |
| 4 | 8/23/23 | RESPONSE TO COMMENTS |

PHOTOMETRIC PLAN

DRAWN: NC
CHECKED: AS NOTED
SCALE: AS NOTED
DATE: 5/11/2023

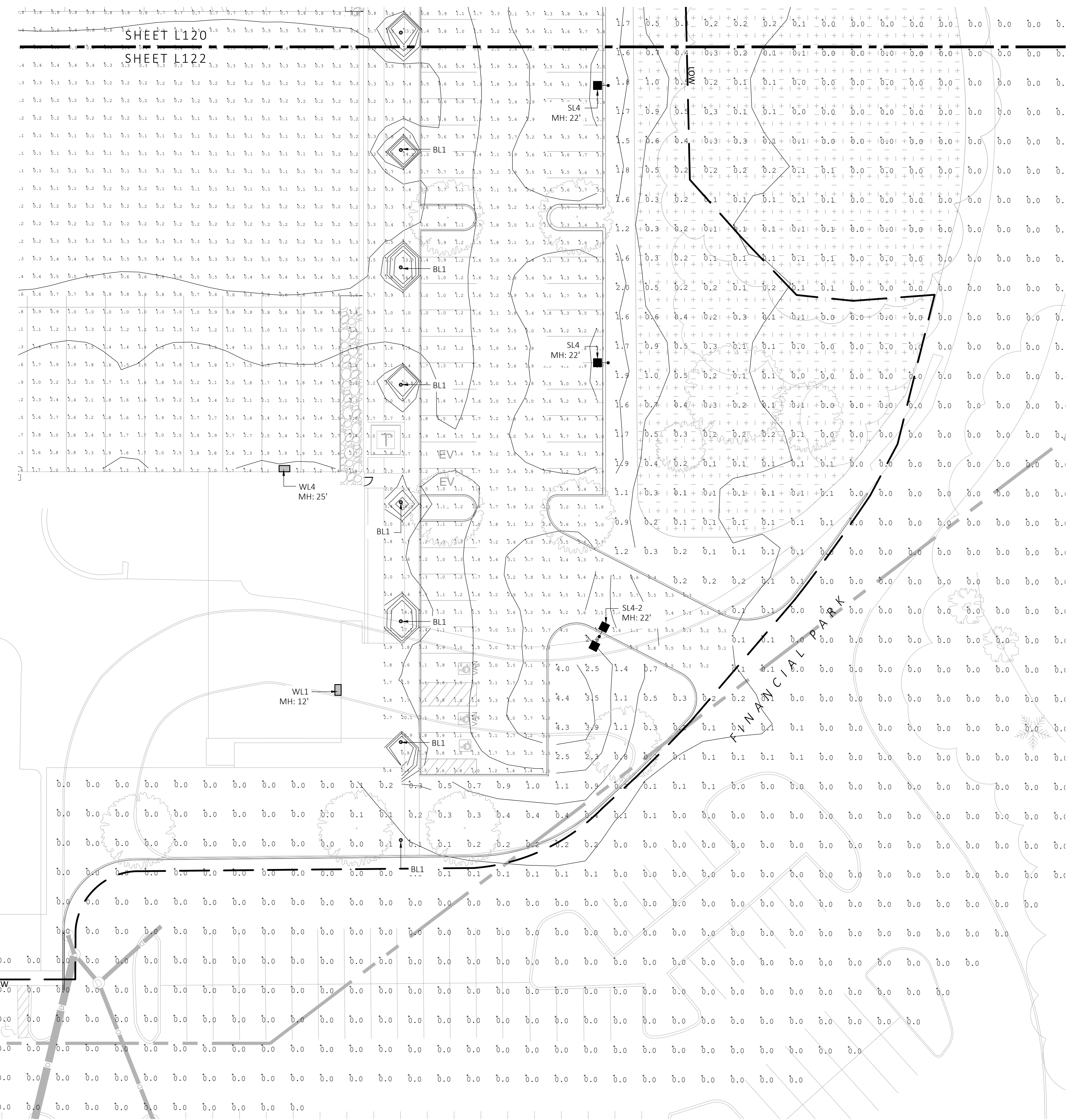
SHEET 23 OF 24

plot date: 8/25/2023

| LIGHT SCHEDULE | | MODEL | MOUNT | ARRANGEMENT | OPTIONS | REP |
|----------------|-------|---|--|------------------------|----------------|--|
| ○ | BL1 | ARLUCE KLOU180 BOLLARD RWL1-48L-25-3K7-4W-U | CONCRETE FOOTING; KEEP 3" ABOVE GRADE | PEDESTRIAN BOLLARD | COLOR: GRAY | ILLUMINATE 617-947-8996 STEVE PRUDHOMME |
| ■ | SL3 | BEACON RATIO SITE FIXTURE RAR1-160L-135-3K7-3-U BEACON SSS-B POLE SSS-B-20-40-A-1-B3-FINISH | CONCRETE FOOTING; KEEP 24" ABOVE GRADE IN ASPHALT KEEP 3" ABOVE GRADE IN ISLANDS | SINGLE | COLOR: BLK | |
| ■ | SL4 | BEACON RATIO SITE FIXTURE RAR1-160L-135-3K7-4W-U BEACON SSS-B POLE SSS-B-20-40-A-1-B3-FINISH | CONCRETE FOOTING; KEEP 24" ABOVE GRADE IN ASPHALT KEEP 3" ABOVE GRADE IN ISLANDS | SINGLE | COLOR: BLK | |
| ■ | SL4-2 | BEACON RATIO SITE FIXTURE RAR1-160L-135-3K7-4W-U BEACON SSS-B POLE SSS-B-20-40-A-2-B3-FINISH | CONCRETE FOOTING; KEEP 24" ABOVE GRADE IN ASPHALT KEEP 3" ABOVE GRADE IN ISLANDS | BACK BACK | COLOR: BLK | |
| □ | WL1 | BEACON RATIO WALL FIXTURE RWL1-48L-25-3K7-4W-U | BUILDING MOUNT | SINGLE | COLOR: BLK | |
| □ | WL2 | BEACON RATIO WALL FIXTURE RWL2-160L-135-3K7-4-U | BUILDING MOUNT | SINGLE | COLOR: BLK | |
| --- | WL3 | DL-ES-15-O-30K-HC-24-A-DL- ALUM-U-8 | ALUMINUM CHANNEL | RECESSED WALL LIGHT | | |

SUBMIT CUT SHEETS FOR APPROVAL; SEE PHOTOMETRIC PLAN PROVIDED WITH THIS DRAWING SET FOR MORE INFORMATION.

| Label | CalcType | Units | Avg | Max | Min | Avg/Min | Max/Min |
|--------------------|-------------|-------|------|------|-----|---------|---------|
| CHAMPAGNE BUILDING | illuminance | Fc | 1.72 | 4.7 | 0.1 | 17.20 | 47.00 |
| PARKING AREAS | illuminance | Fc | 1.70 | 30.9 | 0.0 | N.A. | N.A. |
| SPILL LIGHT | illuminance | Fc | 0.10 | 29.6 | 0.0 | N.A. | N.A. |



SHEET L121
SHEET L122

BUILDING 2

1 PHOTOMETRIC PLAN
SCALE: 1" = 20'-0"



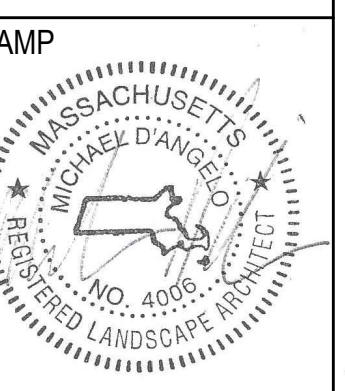
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WAREHOUSE / INDUSTRIAL DEV.
100 / 200 FINANCIAL PARK
FRANKLIN, MA



| REV. NO. | DATE | DESCRIPTION |
|----------|---------|----------------------|
| 1 | 5/11/23 | FOR PERMIT |
| 2 | 7/17/23 | RESPONSE TO COMMENTS |
| 3 | 8/10/23 | RESPONSE TO COMMENTS |
| 4 | 8/25/23 | RESPONSE TO COMMENTS |

PHOTOMETRIC PLAN

DRAWN: NC
CHECKED: AS NOTED
SCALE: AS NOTED
DATE: 5/11/2023

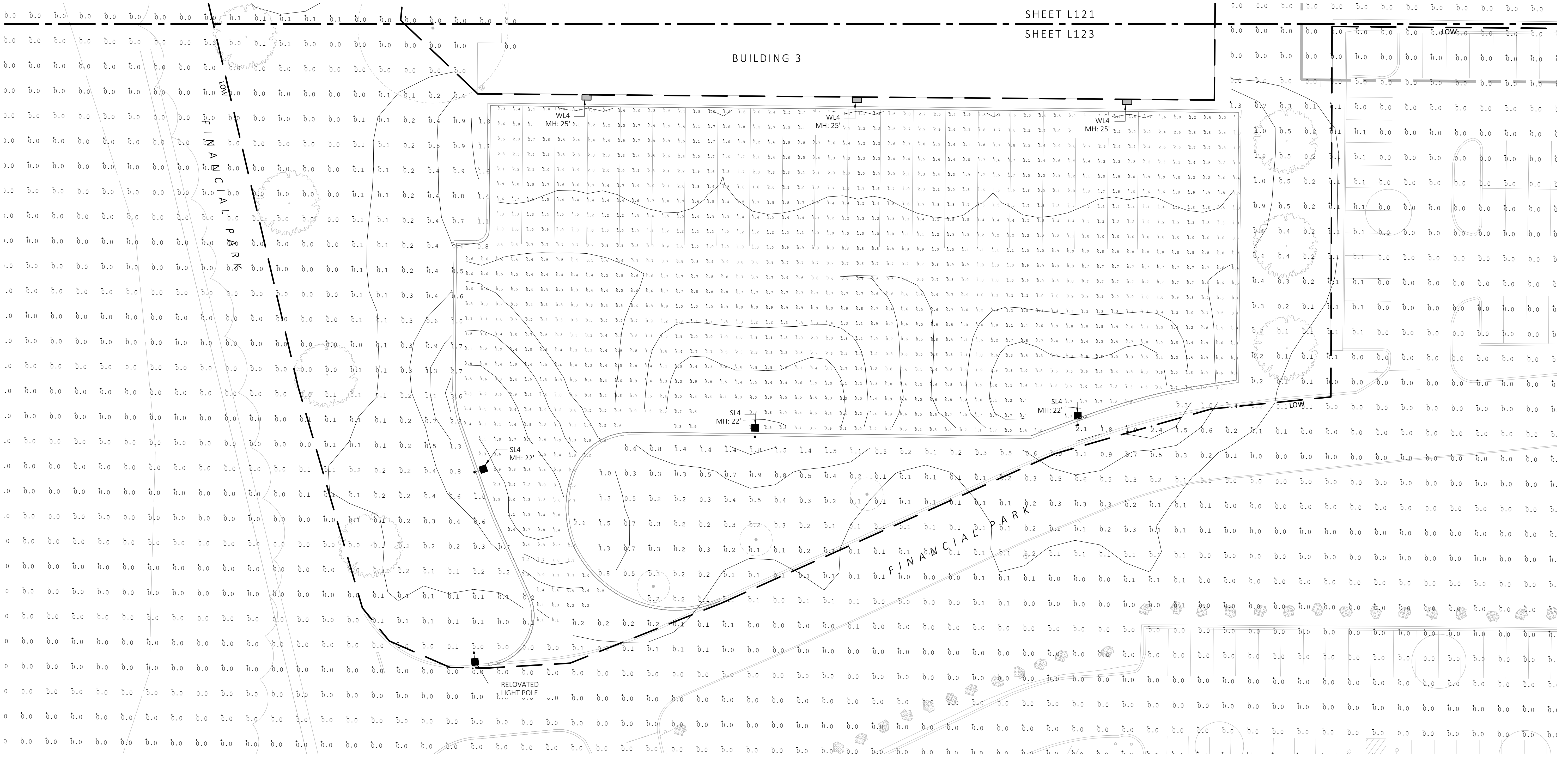
SHEET 24 OF 24

plot date: 8/25/2023

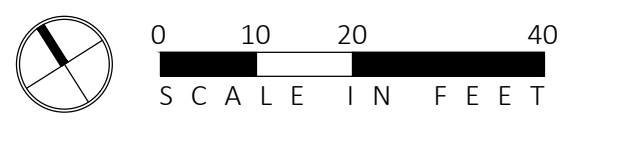
| LIGHT SCHEDULE | | | | | | |
|----------------|-------|---|--|------------------------|----------------|--|
| SYMBOL | LABEL | MODEL | MOUNT | ARRANGEMENT | OPTIONS | REP |
| ○ | BL1 | ARCLUCE KLOU180 BOLLARD RWL1-48L-25-3K7-4W-U | CONCRETE FOOTING; KEEP 3" ABOVE GRADE | PEDESTRIAN BOLLARD | COLOR: GRAY | |
| ■ | SL3 | BEACON RATIO SITE FIXTURE RAR1-160L-135-3K7-3-U BEACON SSS-B POLE SSS-B-20-40-A-1-83-FINISH | CONCRETE FOOTING; KEEP 24" ABOVE GRADE IN ASPHALT KEEP 3" ABOVE GRADE IN ISLANDS | SINGLE | COLOR: BLK | |
| ■ | SL4 | BEACON RATIO SITE FIXTURE RAR1-160L-135-3K7-4W-U BEACON SSS-B POLE SSS-B-20-40-A-1-83-FINISH | CONCRETE FOOTING; KEEP 24" ABOVE GRADE IN ASPHALT KEEP 3" ABOVE GRADE IN ISLANDS | SINGLE | COLOR: BLK | ILLUMINATE 617-947-8996 STEVE PRUDHOMME |
| ■ | SL4-2 | BEACON RATIO SITE FIXTURE RAR1-160L-135-3K7-4W-U BEACON SSS-B POLE SSS-B-20-40-A-1-83-FINISH | CONCRETE FOOTING; KEEP 24" ABOVE GRADE IN ASPHALT KEEP 3" ABOVE GRADE IN ISLANDS | BACK BACK | COLOR: BLK | |
| □ | WL1 | BEACON RATIO WALL FIXTURE RWL1-48L-25-3K7-4W-U | BUILDING MOUNT | SINGLE | COLOR: BLK | |
| □ | WL2 | BEACON RATIO WALL FIXTURE RWL2-160L-135-3K7-4-U | BUILDING MOUNT | SINGLE | COLOR: BLK | |
| --- | WL3 | DL-ES-15-O-30K-HC-24-A-DL- ALUM-U-8 | ALUMINUM CHANNEL | RECESSED WALL LIGHT | | |

SUBMIT CUT SHEETS FOR APPROVAL; SEE PHOTOMETRIC PLAN PROVIDED WITH THIS DRAWING SET FOR MORE INFORMATION.

| Calculation Summary | | | | | | | |
|---------------------|-------------|-------|------|------|-----|---------|---------|
| Label | CalcType | Units | Avg | Max | Min | Avg/Min | Max/Min |
| CHAMPAGNE BUILDING | ILLUMINANCE | Fc | 1.72 | 4.7 | 0.1 | 17.20 | 47.00 |
| PARKING AREAS | ILLUMINANCE | Fc | 1.70 | 30.9 | 0.0 | N.A. | N.A. |
| SPILL LIGHT | ILLUMINANCE | Fc | 0.10 | 29.6 | 0.0 | N.A. | N.A. |



1 PHOTOMETRIC PLAN
SCALE: 1" = 20'-0"



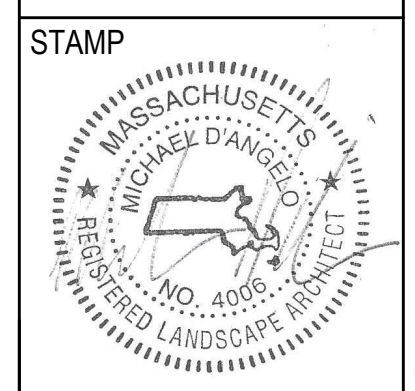
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NOT FOR CONSTRUCTION

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BOSTON, MA

PROJECT
WAREHOUSE / INDUSTRIAL DEV.
100 / 200 FINANCIAL PARK
FRANKLIN, MA



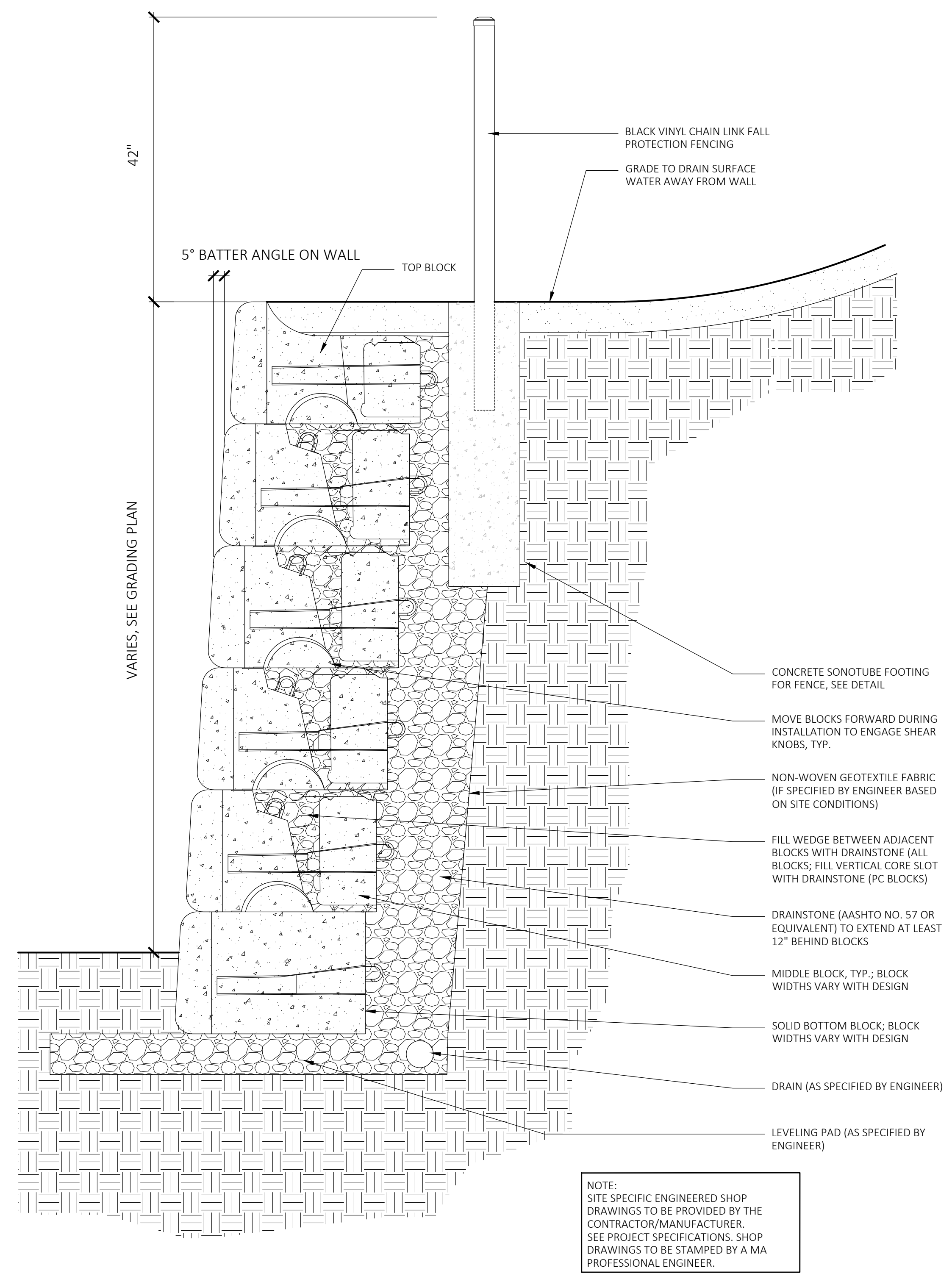
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LANDSCAPE DETAILS

DRAWN: NC
CHECKED: AS NOTED
SCALE: **L124**
AS NOTED
DATE: 5/11/2023

SHEET 19 OF 24

plot date: 8/25/2023



1 GRAVITY BLOCK RETAINING WALL
SCALE: 1" = 1'-0"