WAREHOUSE/INDUSTRIAL DEVELOPMENT SITE DEVELOPMENT PLANS

L401 LANDSCAPE PHOTOMETRIC PLAN L402 LANDSCAPE PHOTOMETRIC PLAN

L403 LANDSCAPE PHOTOMETRIC PLAN L404 LANDSCAPE PHOTOMETRIC PLAN

L405 LANDSCAPE PHOTOMETRIC PLAN

L406 LANDSCAPE PHOTOMETRIC PLAN

L407 LANDSCAPE PHOTOMETRIC PLAN

100/200 FINANCIAL PARK 1 WASHINGTON MALL | Suite 701 BOSTON, MA 02108

PERMIT SET: MAY 11, 2023

PROJECT TEAM

MDM TRANSPORTATION CONSULTANTS

HIGHPOINT ENGINEERING, INC. 980 WASHINGTON STREET | SUITE 216

DEDHAM, MA 02026

TEL: (781) 770-0970

315 ELM STREET

TEL: (508) 460-1111

TEL: (508) 380-9088

RODE ARCHITECTS 535 ALBANY STREET, #405

BOSTON, MA 02118

www.rodearchitects.com

ATTN: Douglas Hartnett

www highpointeng.com

HANCOCK ASSOCIATES

MARLBOROUGH, MA 01752

MARLBOROUGH, MA 01752

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

BOOK - 36923 PAGE - 217 MAP - 312 PARCEL 020-001-000

ZONE INDUSTRIAL

200 FRANKLIN STREET

CIVIL ENGINEER:

LAND SURVEYOR/

TRAFFIC CONSULTANT:

LANDSCAPE ARCHITECT: MICHAEL D'ANGELO

LANDSCAPE ARCHITECTS 840 SUMMER STREET | SUITE 201A BOSTON, MA 02110

DEVELOPMENT

INDEX OF DRAWINGS

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	ISSUE HISTORY:	PERMIT SET MAY 11, 2023	RESPONSE TO COMIN JULY 17, 2023	RESPONSE TO COMI AUGUST 14, 2023	RESPONSE TO COMI AUGUST 25, 2023	RESPONSE TO COMIN OCTOBER 5, 2023	RESPONSE TO COMI OCTOBER 19, 2023	RESPONSE TO COMI OCTOBER 26, 2023		WAREHOUSE/INDU	~
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301	LAYOUT & MATERIALS PLAN	•	•	•		•	•	•	<u> </u>		
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401	GRADING & DRAINAGE PLAN	•	•	•		•	•	•	<u> </u>		
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501	UTILITY PLAN	•	•	•		•	•	•			
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107	MATERIALS PLAN	•	•	•	•	•	•	•			
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300	PLANTING & EIGHTING TEAN PLANTING SCHEDULE & DETAILS	•	•		•	•	•	•			
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1 00	LANDOCAPE PROTOMETRIC PLAN		_		_						

LOCUS SCALE: 1" = 200'

IEET

LEGEND

ELECTRIC MANHOLE & UNDERGROUND ELECTRIC LINES TELEPHONE MANHOLE & UNDERGROUND —FO——TO——FO— FIBER OPTIC LINES O IR IRON ROD BIT. BITUMINOUS (C) CALCULATED CONC. CONCRETE (F) FOUND (R) RECORD

- A POST INDICATOR VALVE * CAMERA DRY WELL
- A LIGHT POLE BOLLARD - SIGN
- DH DRILL HOLE
- DHCB DRILL HOLE IN CONCRETE BOUND
- DHSB DRILL HOLE IN STONE BOUND
- CATCH BASIN SEWER MANHOLE
- GAS MAIN WITH SIZE & GATE VALVE

WATER MANHOLE, WATER MAIN WITH SIZE, TEE, GATE VALVE & FIRE HYDRANT

----- OHW- EXISTING UTILITY POLE WITH DESIGNATION OVERHEAD WIRES AND GUY POLE

AREA OF FLOOD ZONES (SEE NOTE 10) " METAL GUARDRAIL EDGE OF PAVEMENT ----×----× WIRE FENCE

EDGE OF GRAVEL ROAD - TELECOMMUNICATIONS EASEMENT 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 RIPPARIAN ZONE ---- LIMIT OF 200-FOOT OUTER RIPPARIAN ZONE

ABUTTERS EAST OF WASHINGTON STREET:

#1: 312-006-000-000 HALLIE WETZELL & 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

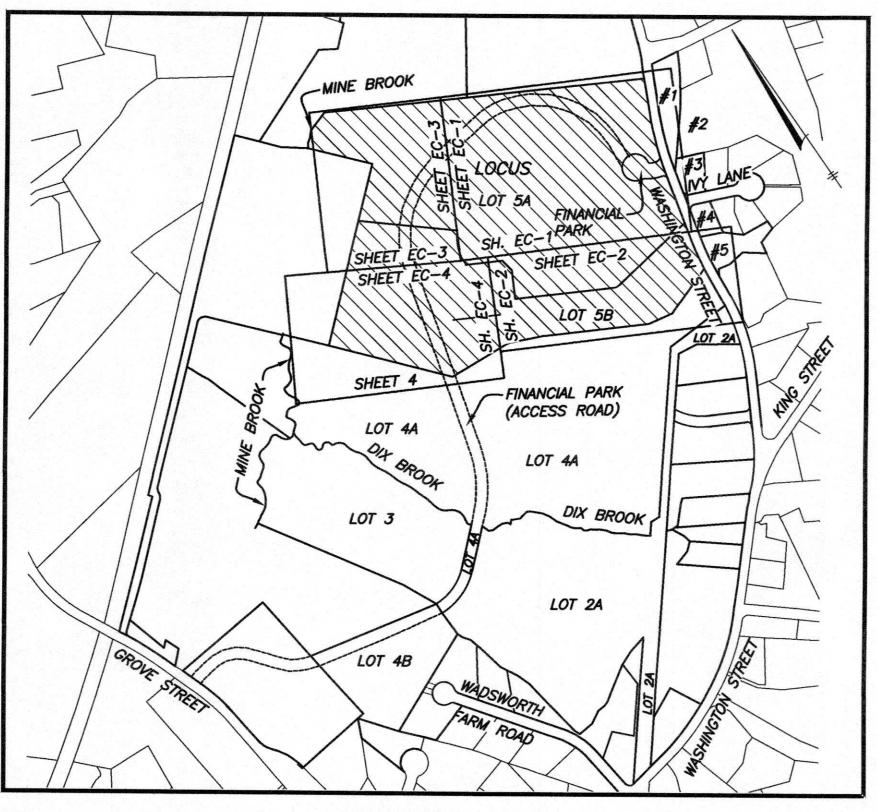
#5: 312-017-000-000 SUZANNA & AMBER SARKAR JOANNE HEBERT SARKAR 460 WASHINGTON STREET, FRANKLIN. MA DEED BOOK 40155, PAGE 457

LIMITED/COMPLIED EXISTING CONDITIONS PLAN

FOR 100 & 200 FINANCIAL PARK FRANKLIN, MA

REV. JULY 24, 2023

OCTOBER 24, 2022



LOCUS MAP 1"=500'

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



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

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 COMPLIED 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, W-FB102, 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/COMPILED EXISTING. ..EC-1 THRU EC-4 CONDITIONS PLANS

A	ELEVATION BENCH MARKS DATUM: (SEE NOTE 1)		
NO.	DESCRIPTION	ELEV.	
L	MAGNETIC NAIL IN PAVEMENT	266.93	
М	MAGNETIC NAIL IN PAVEMENT	254.42	
Ν	MAGNETIC NAIL IN PAVEMENT	251.92	

ZONING:

RECORD OWNERS:

ICBP IV HOLDINGS 34. LLC

SAN FRANCISCO, CALIFORNIA

1 SANSOME STREET, SUITE 1500

<u>ASSESSORS' PARCEL ID:</u>

W/R/T EASEMENT OVER LOT 4A

PLAN BOOK 56, PLAN 2653 & 2654

PLAN BOOK 117, PAGES 388 & 389

PLAN 262 OF 1977, PLAN BOOK 259

PLAN BOOK 281, PLAN 323 OF 1980

PLAN 322 OF 1980, PLAN BOOK 281

PLAN BOOK 281, PLAN 323 OF 1980

PLAN BOOK 665, PAGES 8 & 9 PLAN BOOK 672, PAGE 97 & 98

LOT 5A: 312-020-000-000

LOT 5B: 312-020-001-000

LOT 4A: 321-060-000-000

DEED BOOK 36923, PAGE 217

PLAN BOOK 107, PAGE 253

PLAN BOOK 190, PAGE 1305

PLAN BOOK 675, PAGE 39

PLAN BOOK 676, PAGE 49 PLAN BOOK 678, PAGES 8 & 9

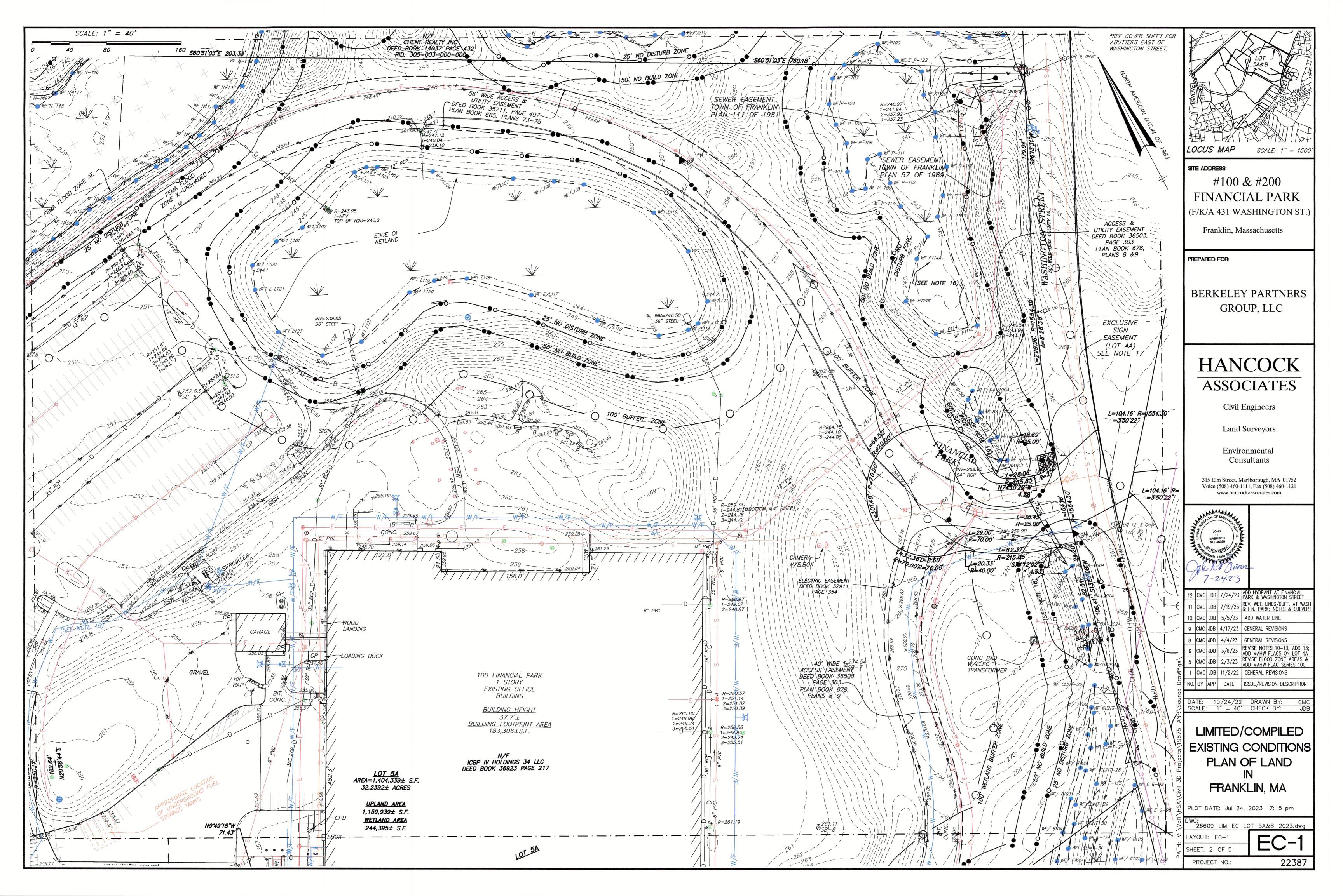
PLAN BOOK 701, PAGE 31

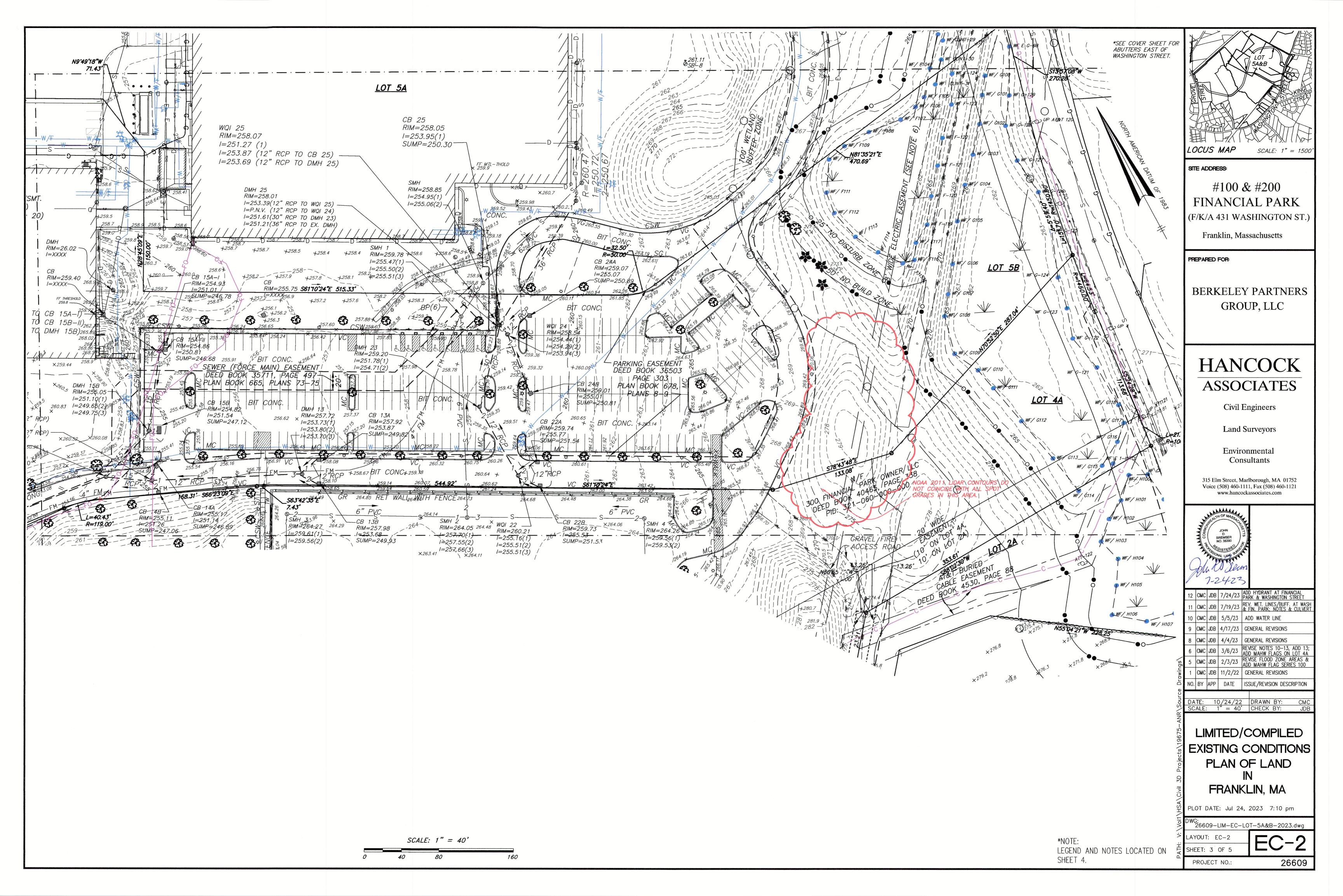
INDUSTRIAL

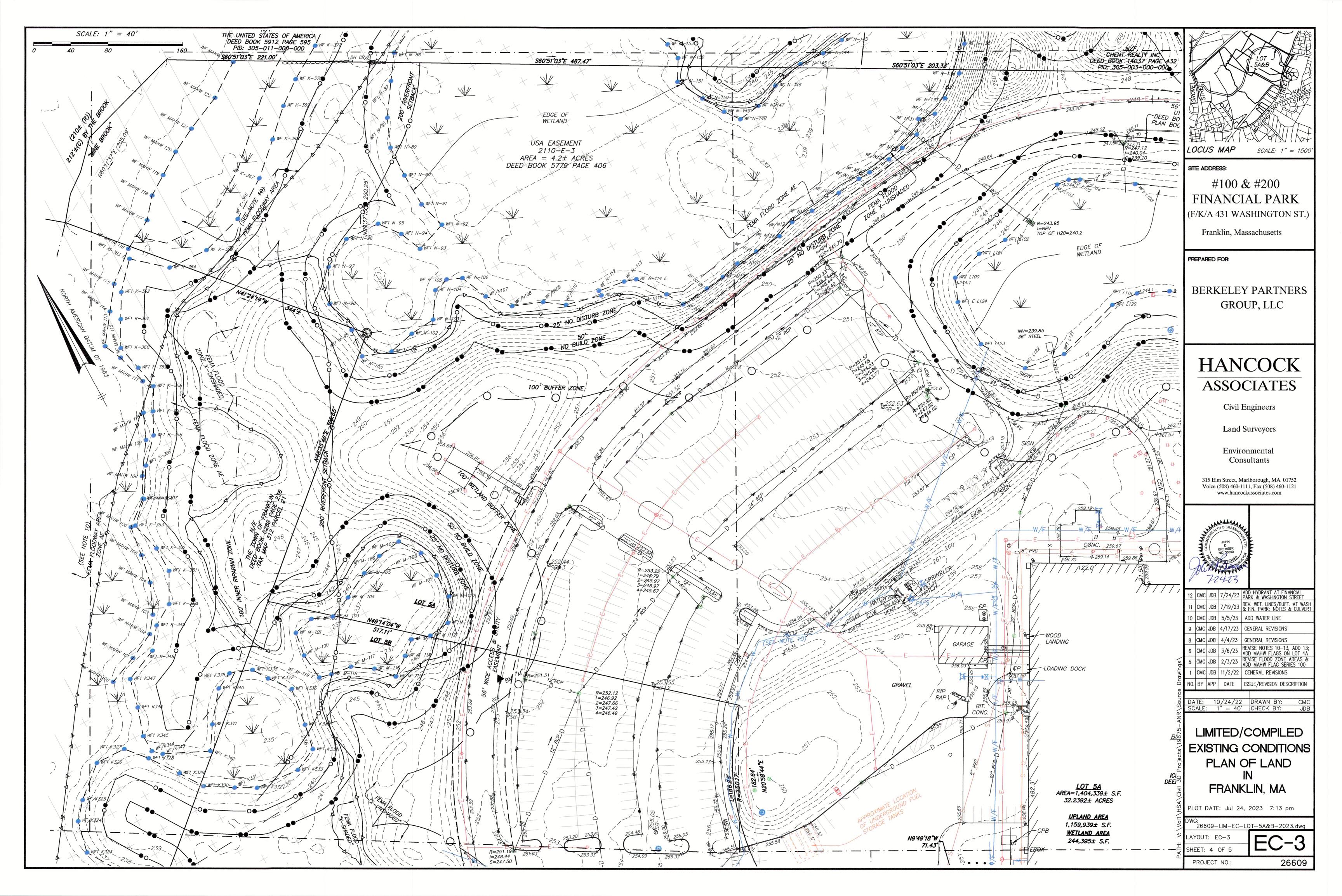
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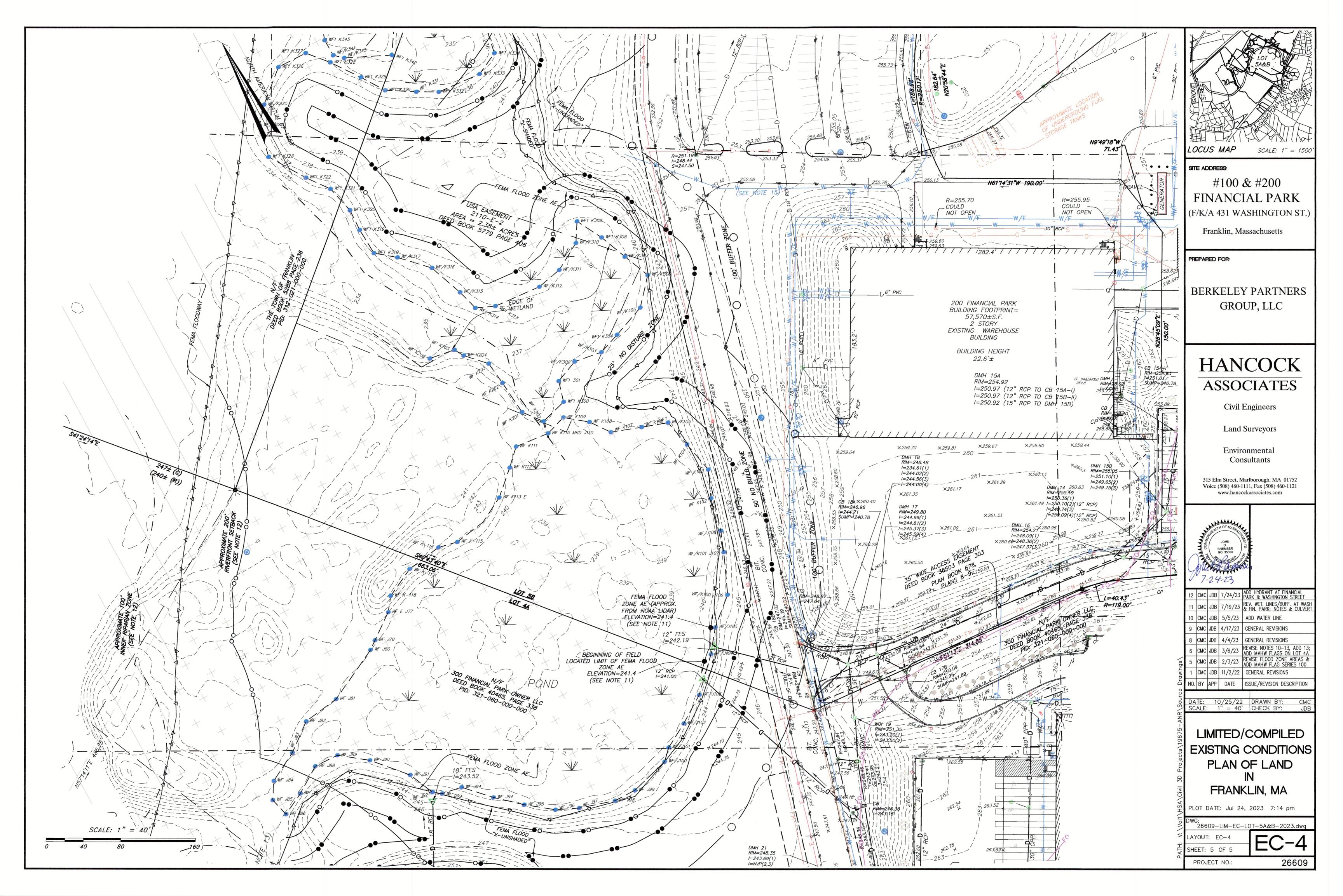
C/O BERKELEY PARTERS

JOB# 26609 PAGE 1 OF 5









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 COMPILATION OF 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 DEPARTMENTS 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

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.

PREVENT SILT FROM ENTERING THE SUBSURFACE DRAINAGE SYSTEM.

FACE OF THE SLOPE.

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 SWEPT 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

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

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 EXITING 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

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

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

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

LOAMING 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

COIR 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

AND BRIDGES"

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 HEREON.

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

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

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

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.

SIDEWALK, 6" WIDTH OF CURBS NOT INCLUDED.

DIMENSIONS ARE TO THE CENTER OF PAVEMENT MARKINGS.

CERTIFICATE OF COMPLIANCE SUPPLIED BY THE PAVING CONTRACTOR.

LICENSED SURVEYOR AT NO COST TO THE OWNER.

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

CONTRACTOR SHALL FURNISH AND SET ALL LINES AND GRADES REQUIRED AND PROTECT ALL PERMANENT BENCHMARKS OR MONUMENTS. DAMAGED MONUMENTS SHALL BE REPLACED BY A

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

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 ACI301, "SPECIFICATION FOR STRUCTURAL CONCRETE," AND ACI 316R, UNLESS MODIFIED BY THE CONTRACT DOCUMENTS. COMPLY WITH CRSI'S "MANUAL OF STANDARD PRACTICE" FOR FABRICATING, PLACING, AND SUPPORTING REINFORCEMENT. COMPLY WITH ACI 306.1 FOR COLD WEATHER PROTECTION, AND FOLLOW RECOMMENDATIONS IN ACI 350R 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 FIGE 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. PITCH 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 CURB 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 OF 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 TO FRANCES 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 REINFORCD 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

PRE-CAST CONCRETE STRUCTURES INCLUDING TANKS, BARREL SECTIONS, CATCHBASINS AND BASES SHALL CONFORM TO ASTM C478 AND AASHTO HS20-44. 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

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

UTILITY NOTES

ANY WORK ON THE WATER SYSTEM.

REGULATIONS AS THEY APPLY.

FOR RESOLUTION.

OFFICIALS SUCH AS WATER AND SEWER IF APPLICABLE.

48 HOURS IN ADVANCE OF ANY REQUIRED INSPECTIONS.

SPECIFICATIONS.

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 WHEREVER POSSIBLE. NO WARRANTY 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

UNDERGROUND UTILITIES WERE COMPILED FROM AVAILABLE RECORD PLANS OF UTILITY UNDERGROUND UTILITIES WERE COMPILED FROM AVAILABLE RECORD PLANS OF UTILITY COMPANIES 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

THE SITE ARE TO BE IN ACCORDANCE WITH THE LOCAL UNCIAL WATER DEPARTMENT

THE PROPOSED WATER MAIN IS TO BE CL 52 CLDI. ALL FITTINGS, HYDRANTS, VALVES, ETC., USED ON

HYDRANTS AND MINIMUM SIZING OF WATER PIPES SHALL BE SUBJECT TO THE APPROVAL OF THE

THE CONTRACTOR SHALL NOTIFY THE LOCAL MUNICIPAL DEPARTMENT OF PUBLIC WORKS AT LEAST

UNDERGROUND INFRASTRUCTURE LOCATED IN THE PUBLIC WAY SHALL BE SUBJECT TO THE

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 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.

APPROVAL OF THE LOCAL MUNICIPAL DEPARTMENT OF PUBLIC WORKS

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

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"

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 HYDROSEEDED WITH A TEMPORARY GRASS MIXTURE IF WEATHER CONDITIONS WILL BE CONDUCIVE 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

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

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

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

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.

DURING CONSTRUCTION OPERATIONS AT NO COST TO THE OWNER.

ENSURE ALL EXISTING (TO REMAIN) AND PROPOSED MANHOLE COVERS PROPERLY IDENTIFY UTILITY

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.

INTO HAYBALE CORRALS OR SEDIMENTATION BAGS

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

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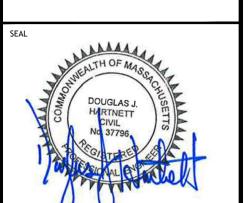
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CONSULTANT:

Berkeley Partners



10-26-2

E/INDUSTRIAL DEVELOPMENT

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10.26.2023 RESPONSE TO COMMENTS
10.19.2023 RESPONSE TO COMMENTS

10.05.2023 RESPONSE TO COMMENTS

3 08.25.2023 RESPONSE TO COMMENTS
2 08.14.2023 RESPONSE TO COMMENTS
1 07.17.2023 RESPONSE TO COMMENTS
REV DATE DESCRIPTION

ISSUE TYPE:
PERMIT SET
ISSUE DATE:

DRAWN BY: JJP
CHECKED BY: DJH

05/11/2023

PROJECT NUMBER:

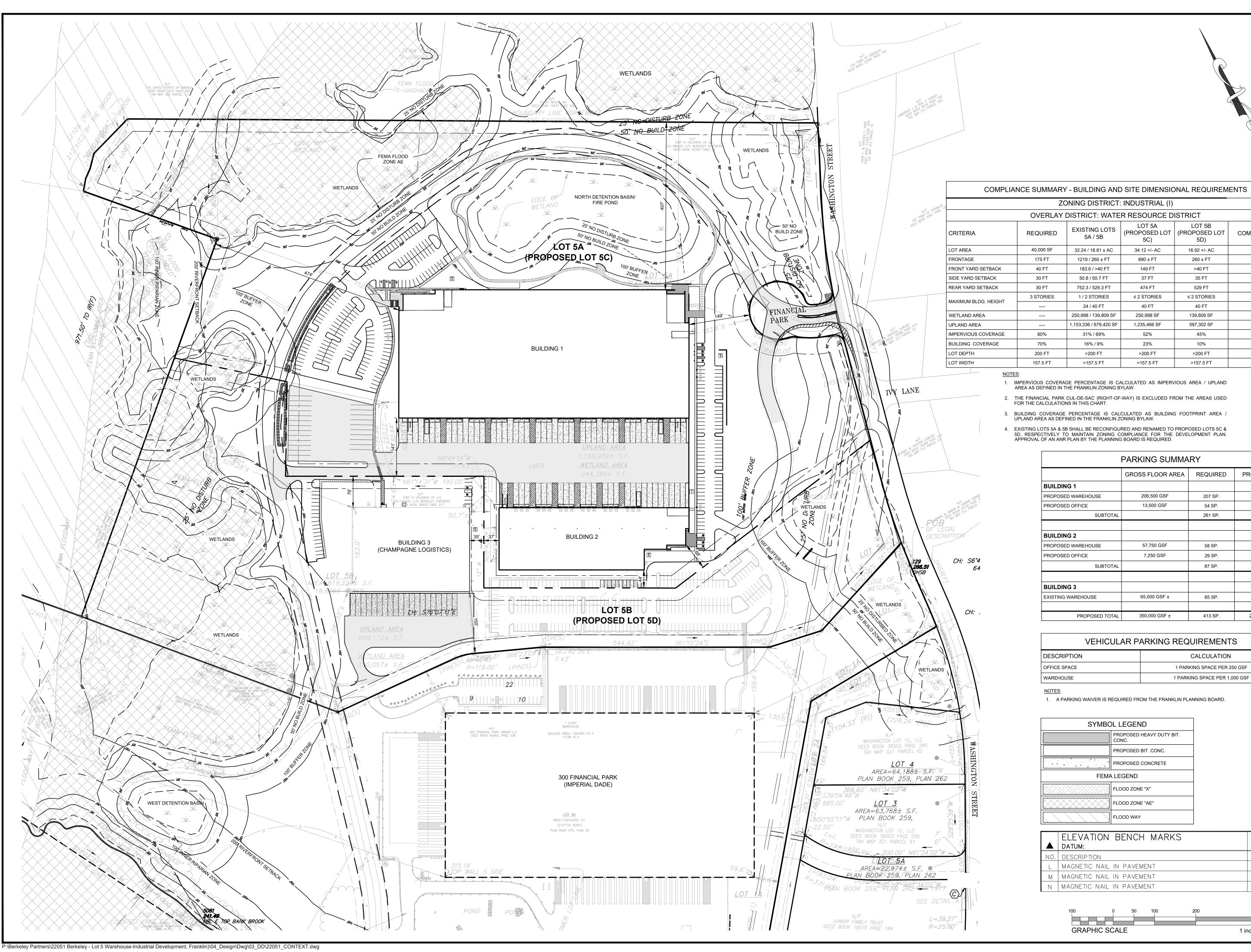
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SHEET

GENERAL NOTES

G100



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ONSULTANT:

COMPLIANCE

YES

YES

YES

YES

YES

YES

YES

YES

262 SP.

10-26-2023

YES YES

S

/INDL

WAREHOUSE

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					
EVICTING WARFHOLISE	65 000 CSE ±	GE CD			

VEHICULAR PARKING REQUIREMENTS				
DESCRIPTION	CALCULATION			
OFFICE SPACE	1 PARKING SPACE PER 250 GSF			
WAREHOUSE	1 PARKING SPACE PER 1,000 GSF			

	ELEVATION BENCH MARKS	
	DATUM:	
NO.	DESCRIPTION	ELEV.
L	MAGNETIC NAIL IN PAVEMENT	266.93
М	MAGNETIC NAIL IN PAVEMENT	254.42
Ν	MAGNETIC NAIL IN PAVEMENT	251.92

1 inch = 100 ft.

SITE CONFORMANCE PLAN

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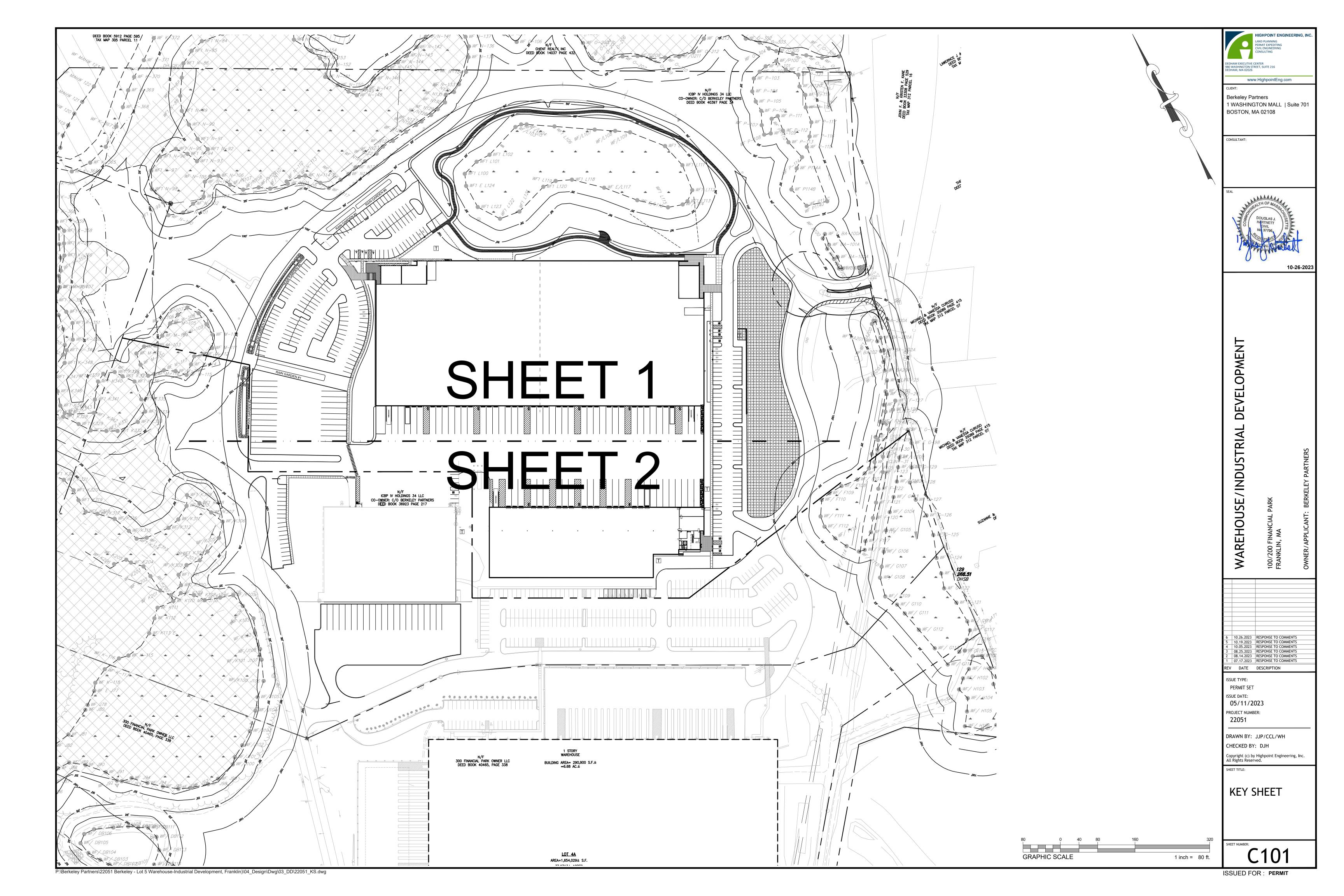
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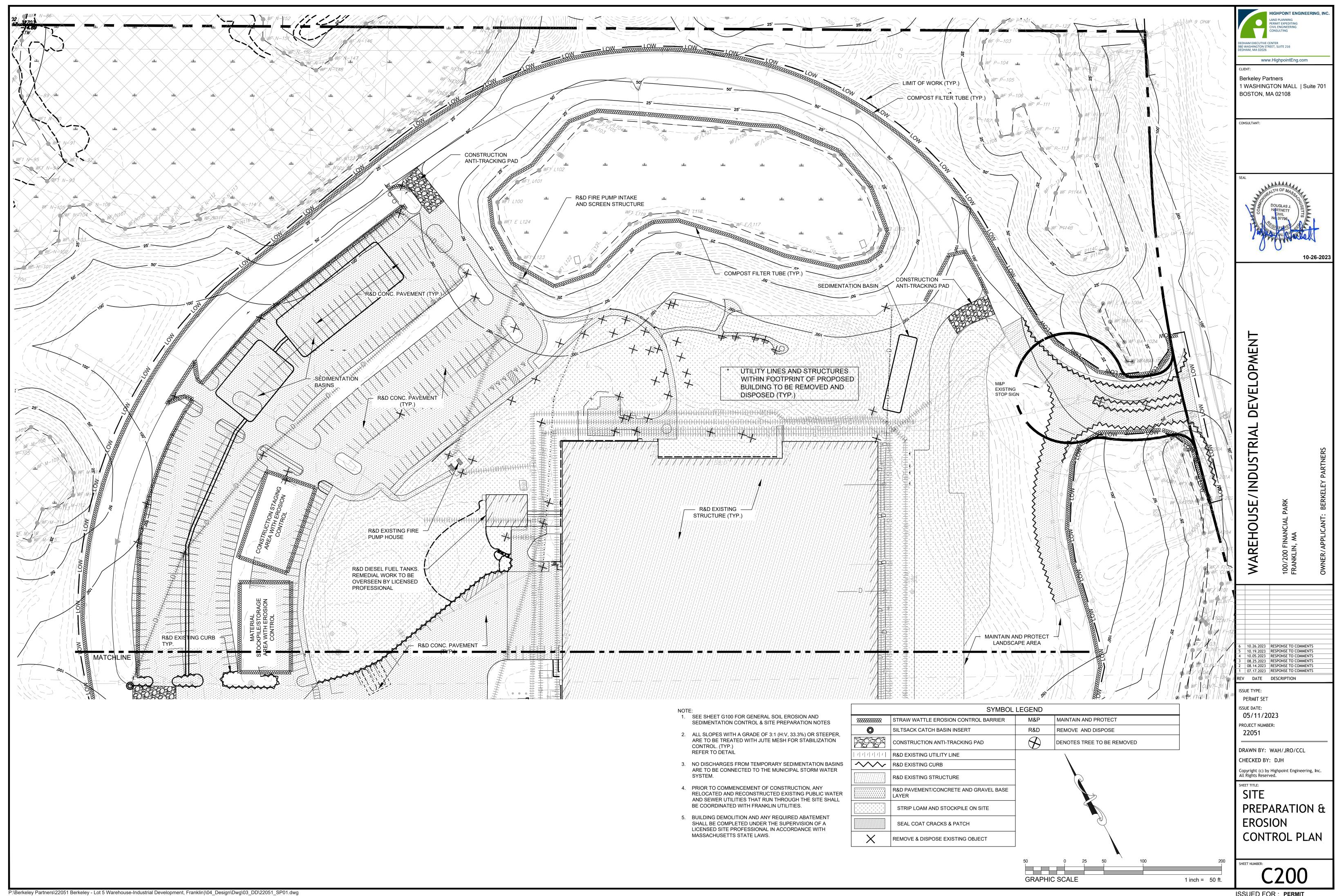
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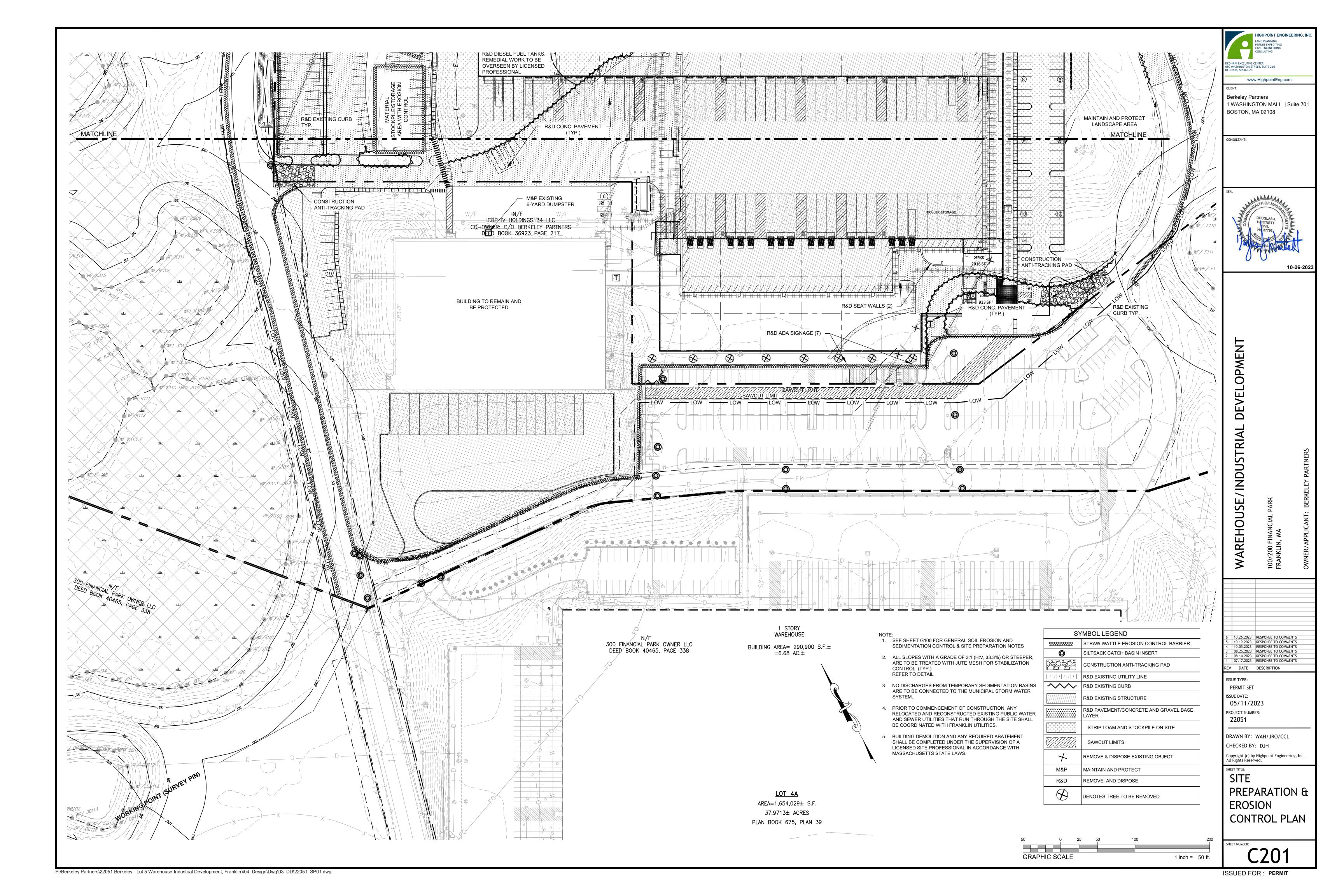
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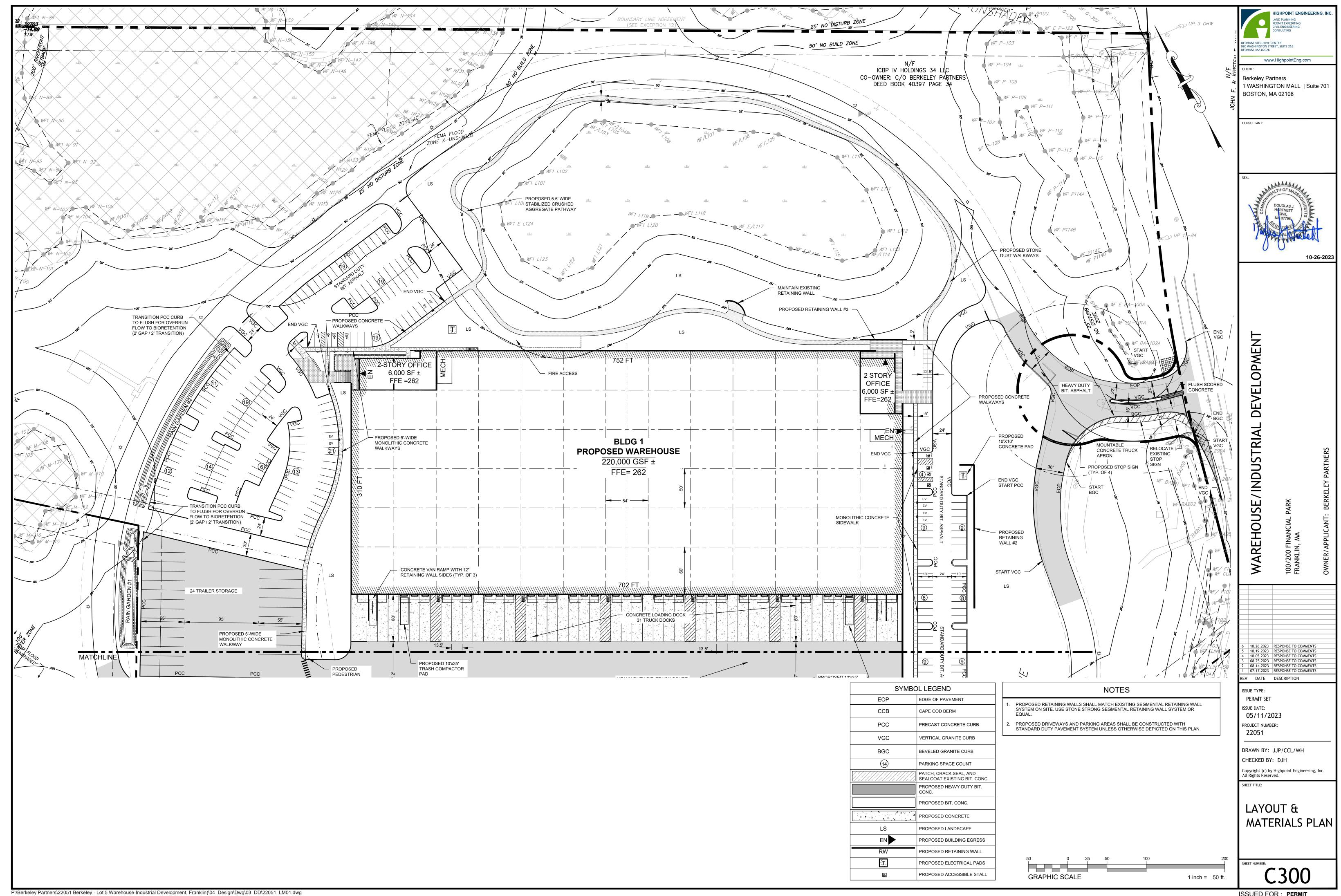
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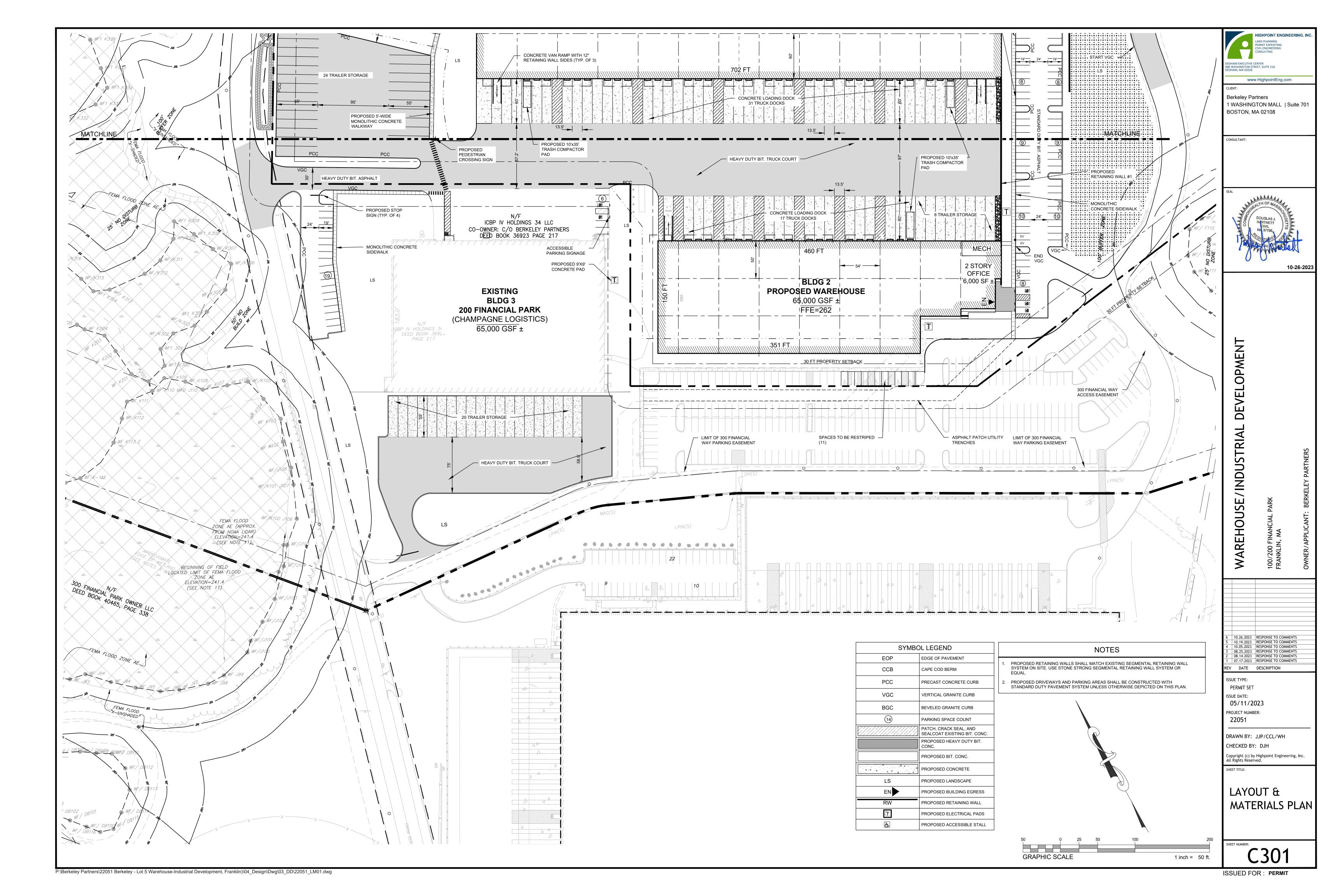


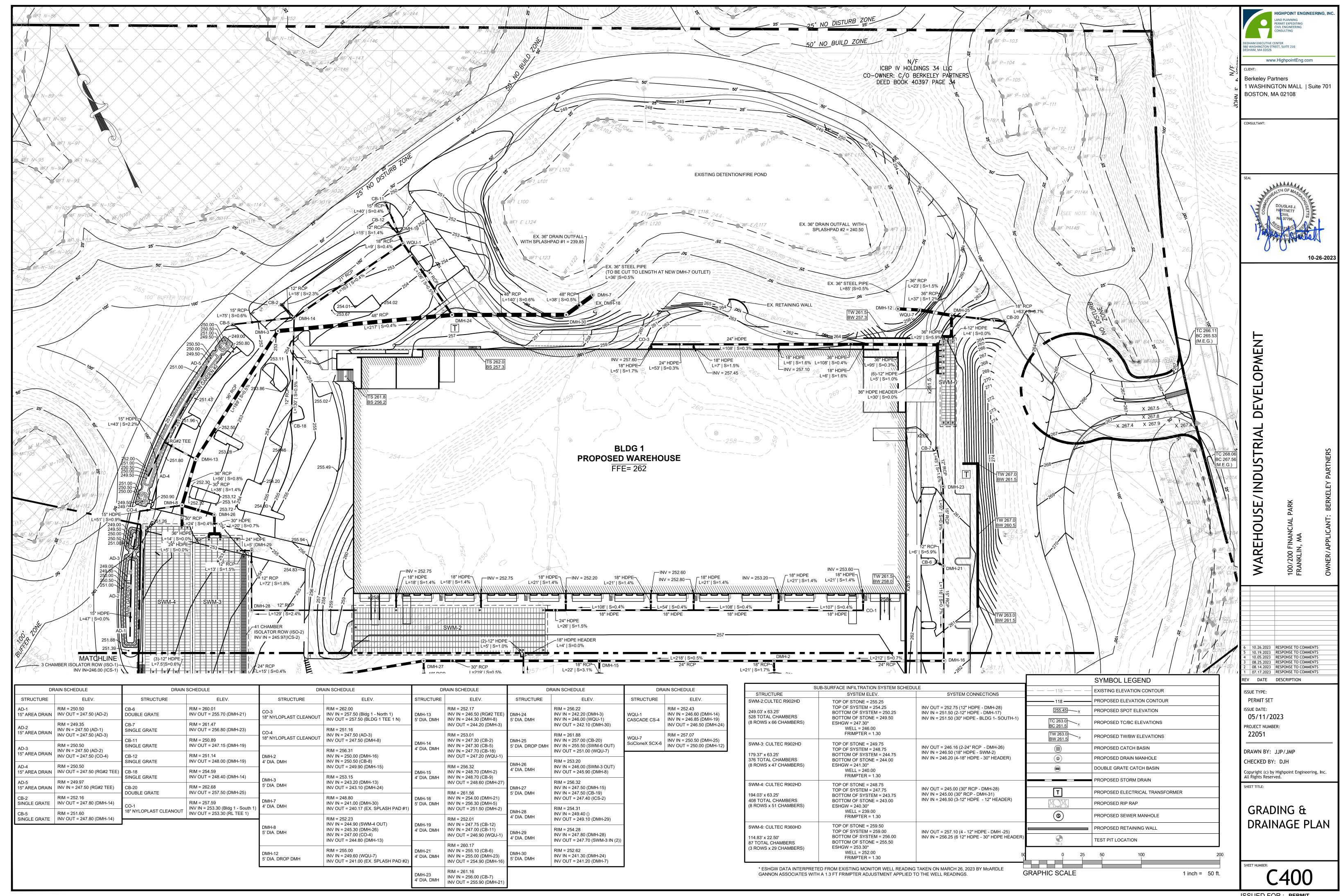


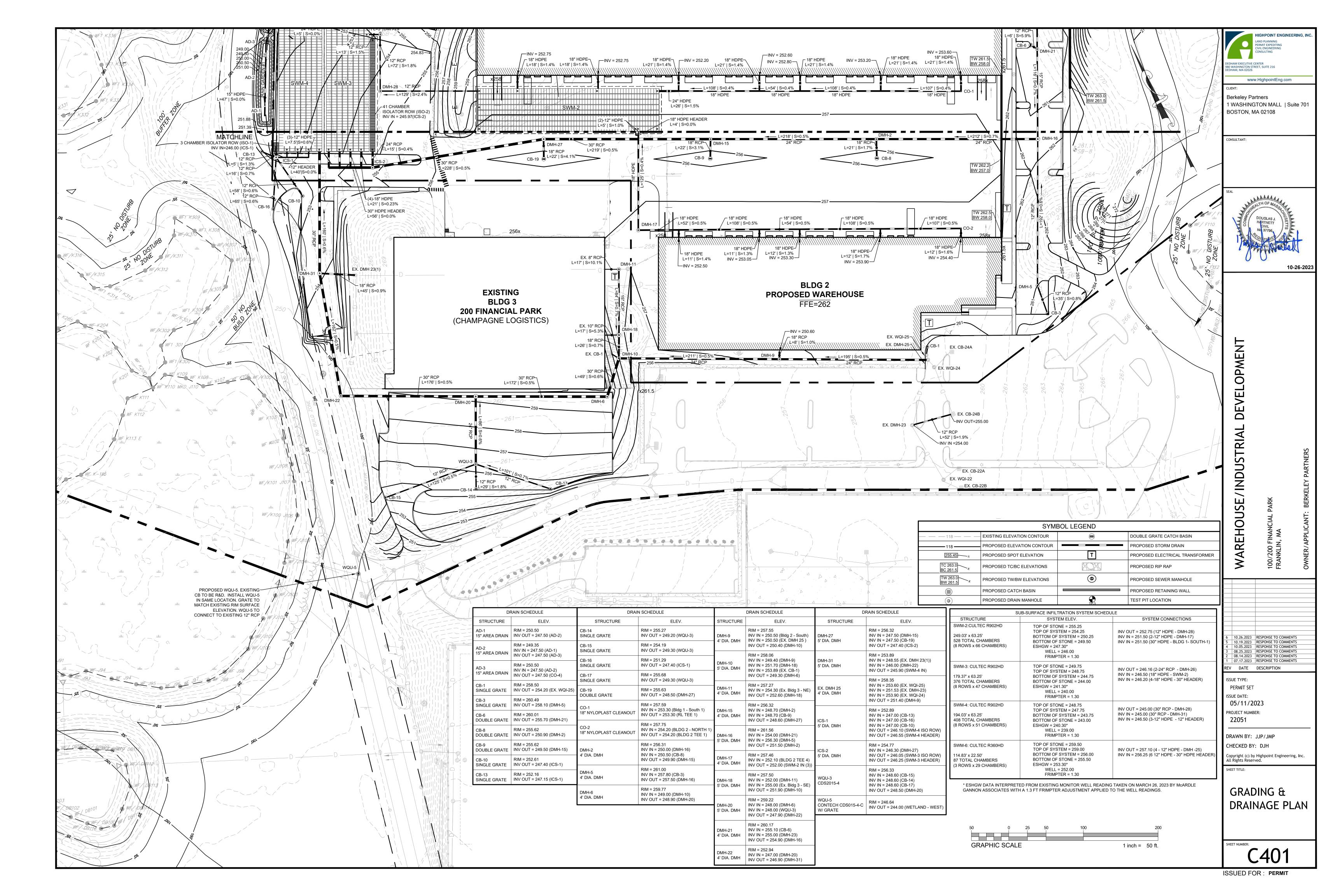
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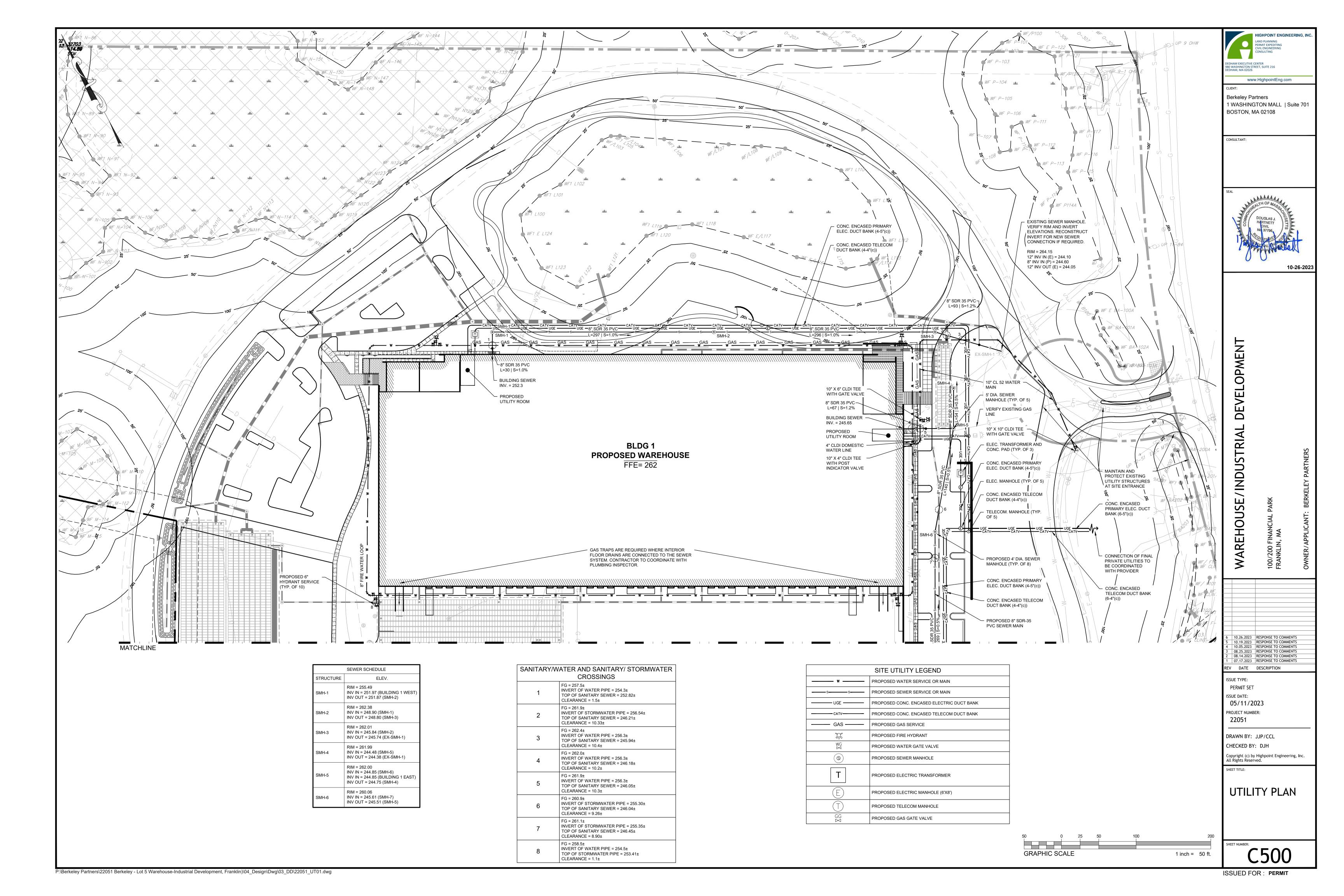


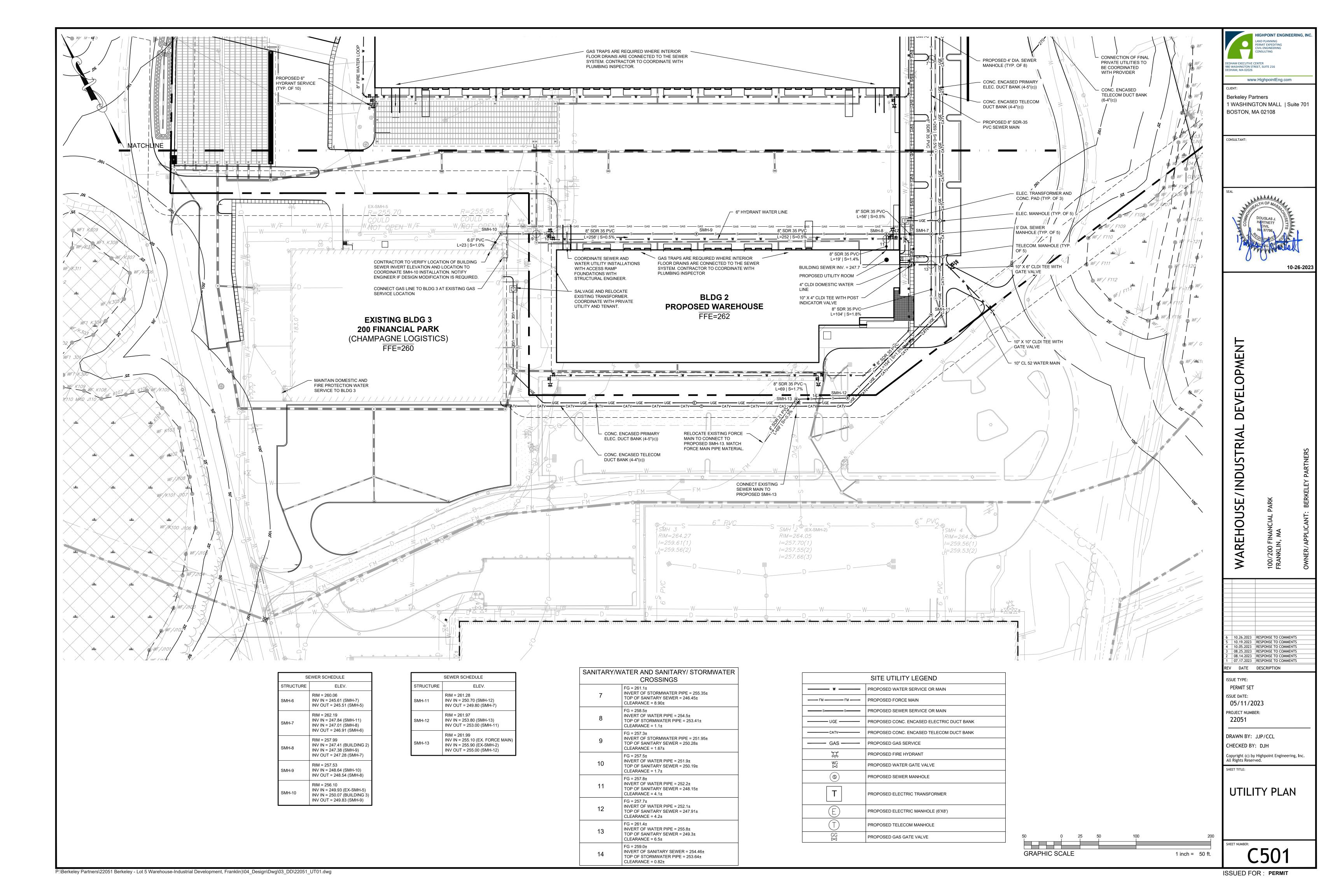


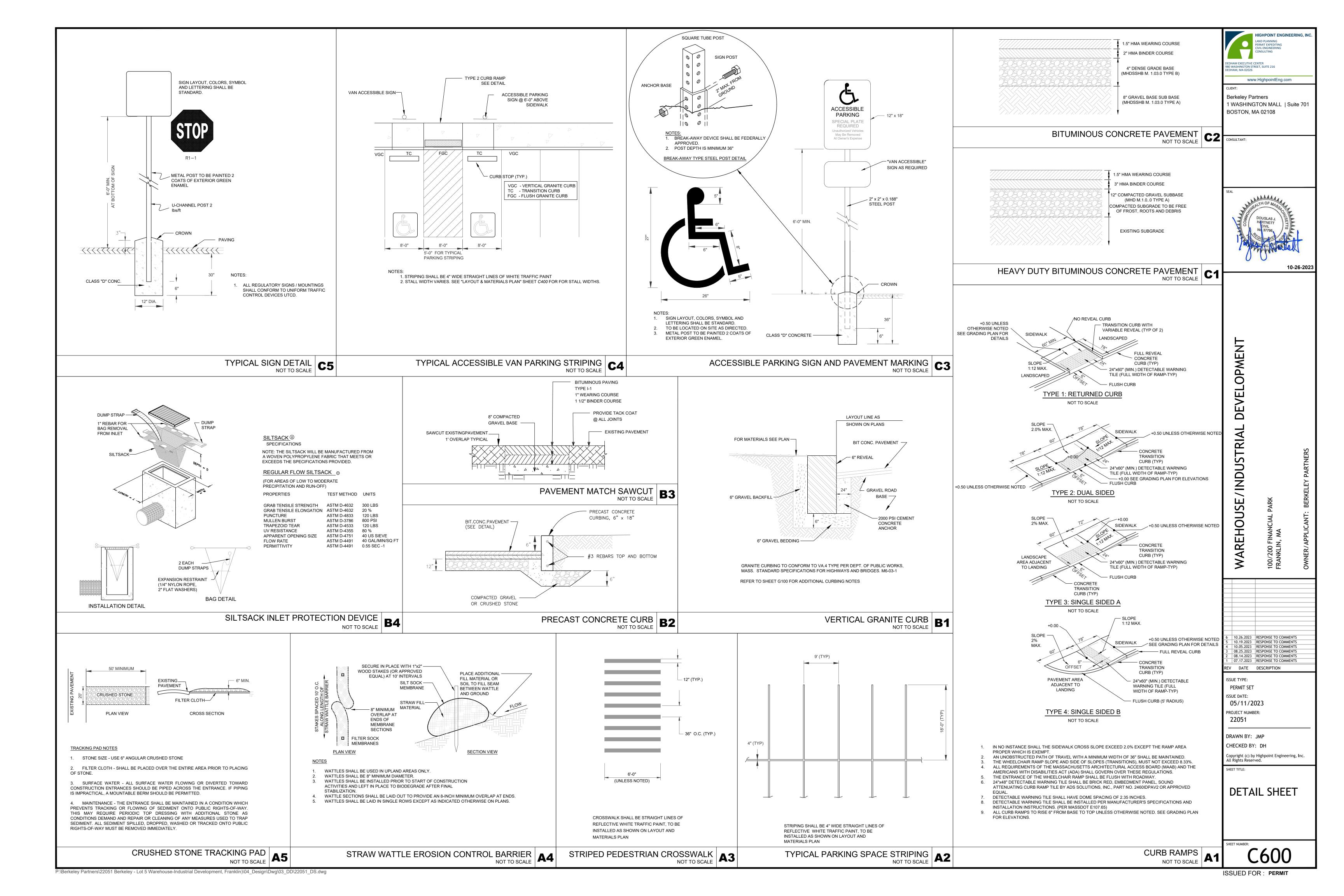


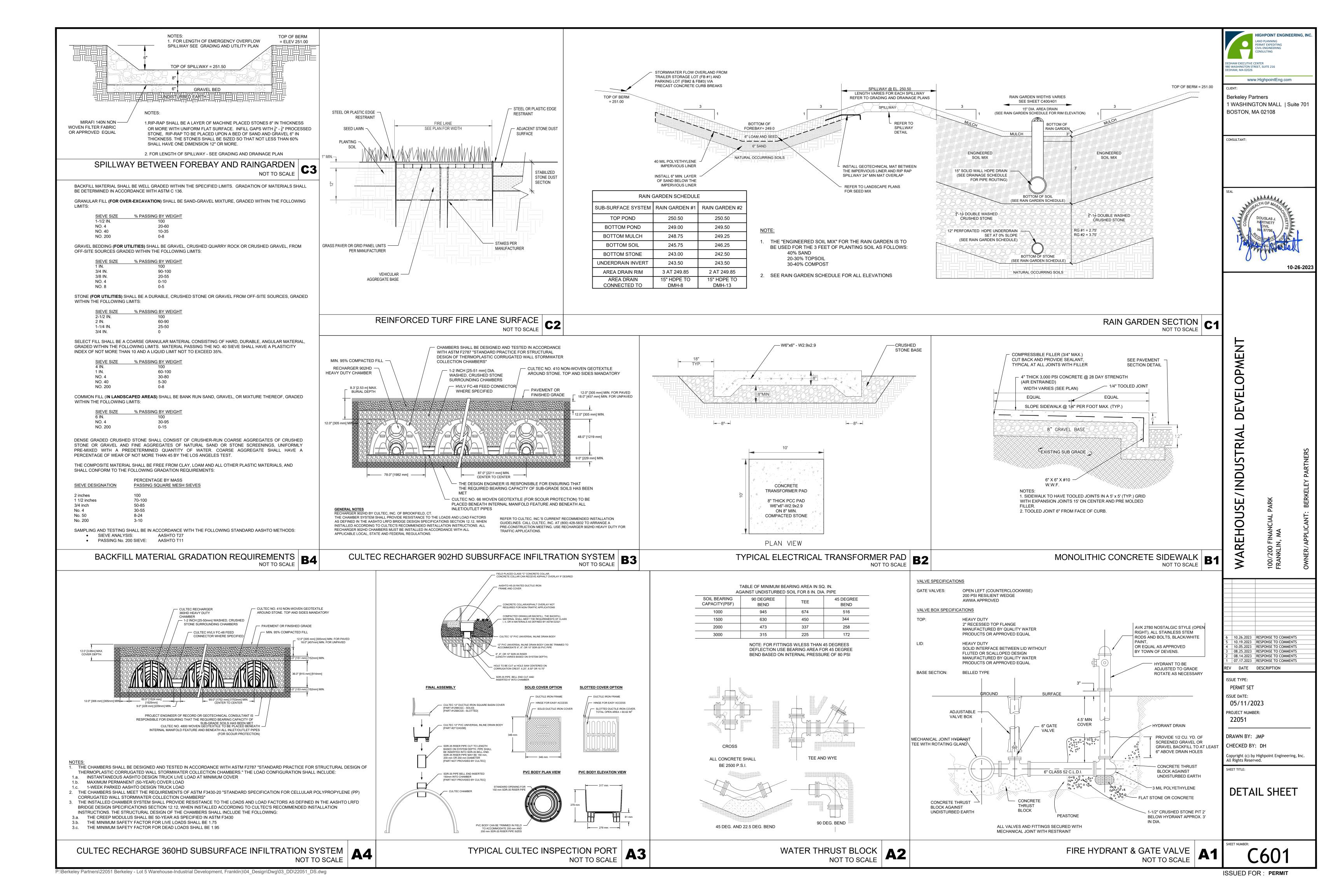


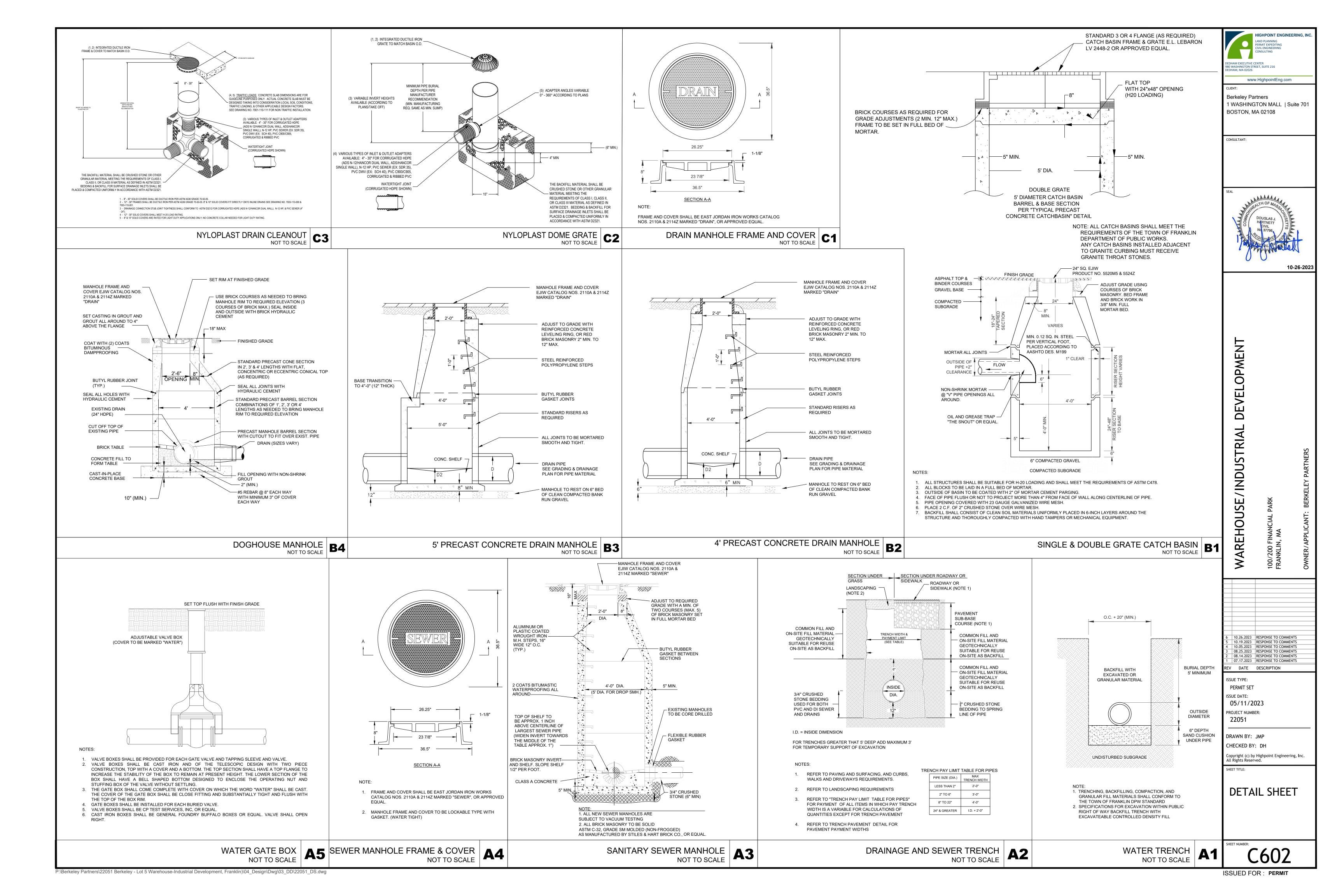


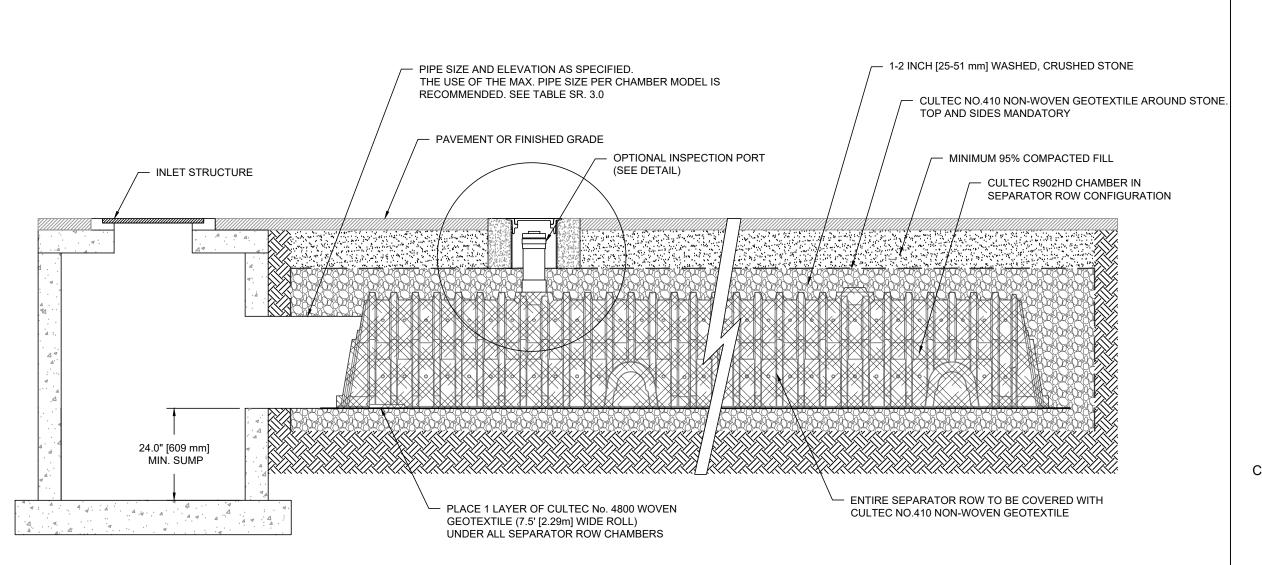


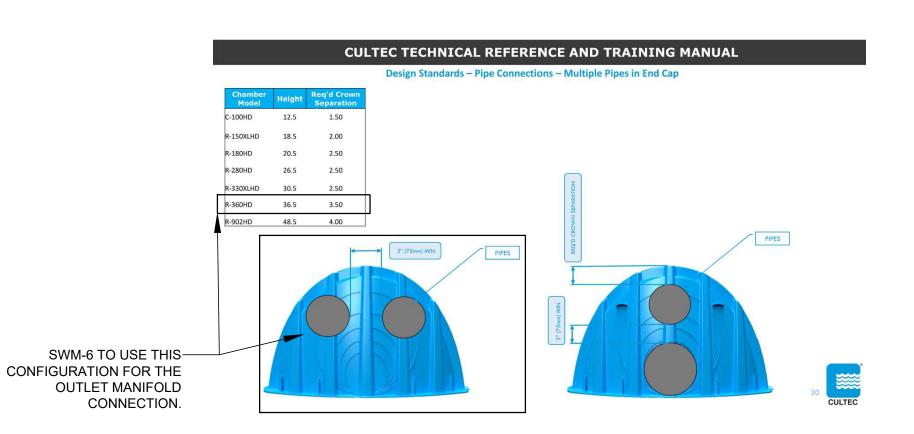


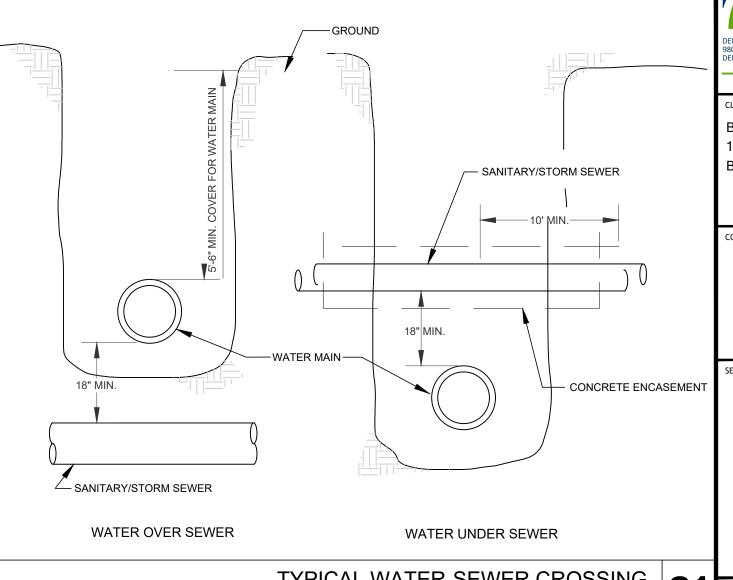


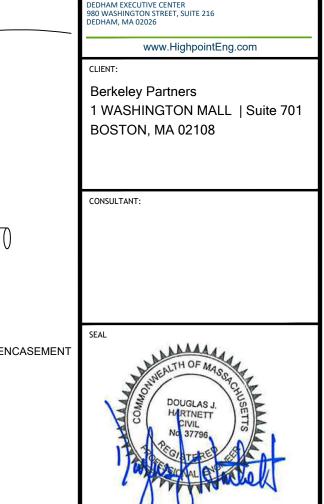












TYPICAL CULTEC SEPARATOR (ISOLATOR) ROW CONFIGURATION NOT TO SCALE

CULTEC INLET & OUTLET DESIGN STANDARDS NOT TO SCALE

TYPICAL WATER-SEWER CROSSING
NOT TO SCALE

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 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

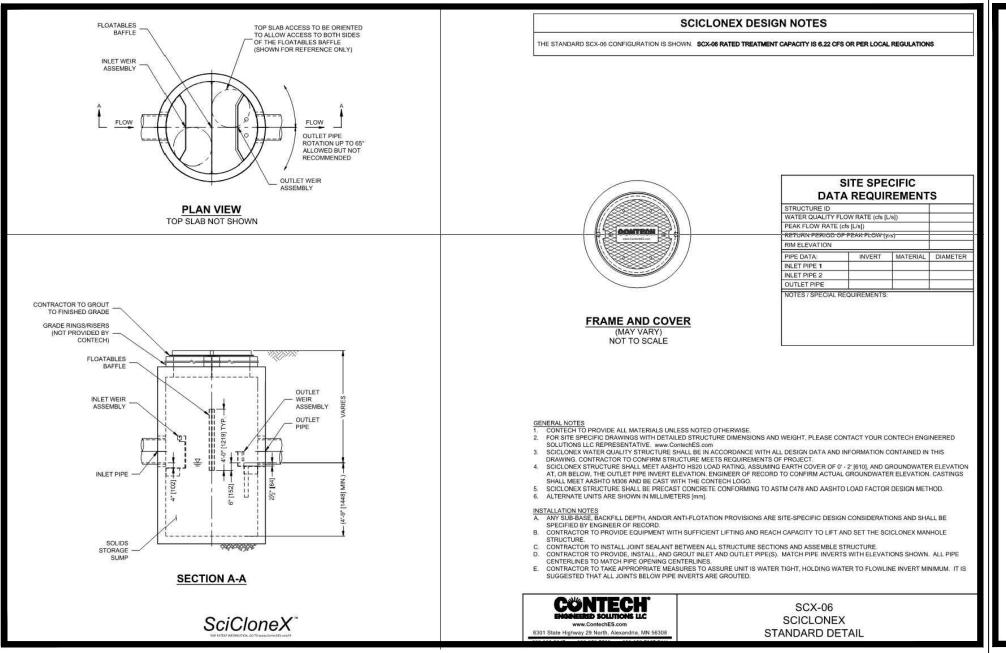
CULTEC RECOMMENDS INSPECTIONS OF THE SEPARATOR ROW TO BE PERFORMED EVERY SIX MONTHS FOR THE FIRST YEAR. THE FREQUENCY OF INSPECTION CAN THEN BE ADJUSTED BASED UPON PREVIOUS OBSERVATION OF SEDIMENT DEPOSITION.

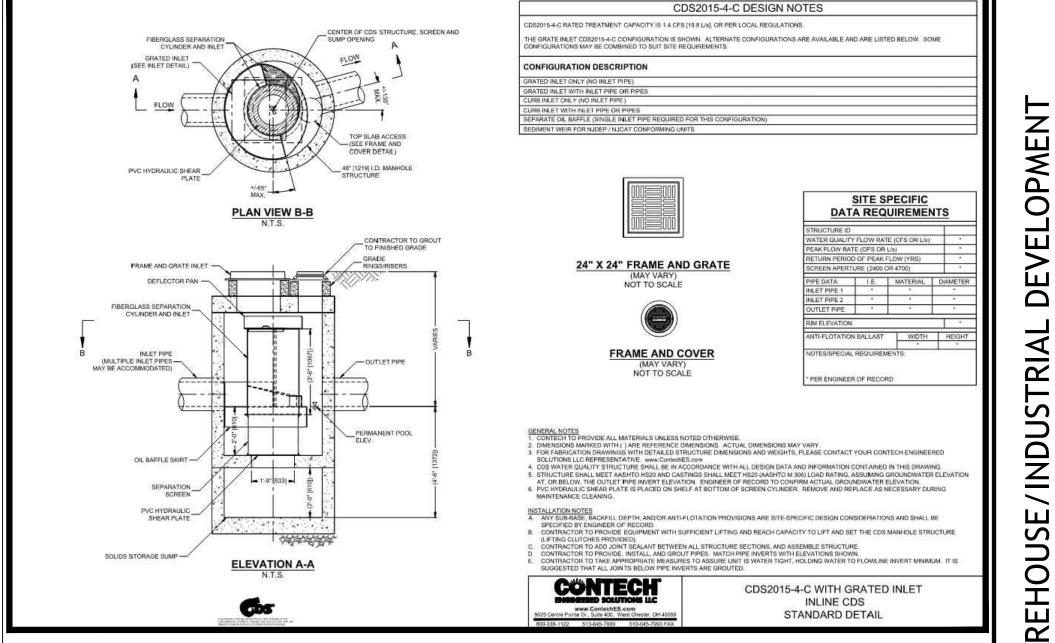
WHILE CLEANING IS POSSIBLE FROM A SINGLE MANHOLE IN SHORTER LINES, A CLEAN-OUT OPTION FROM EITHER END OF A LINE IS PREFERABLE, PARTICULARLY FOR LONGER RUNS. CLEANING INVOLVES FLUSHING SEDIMENT FROM THE BASE FABRIC OF THE SEPARATOR ROW.

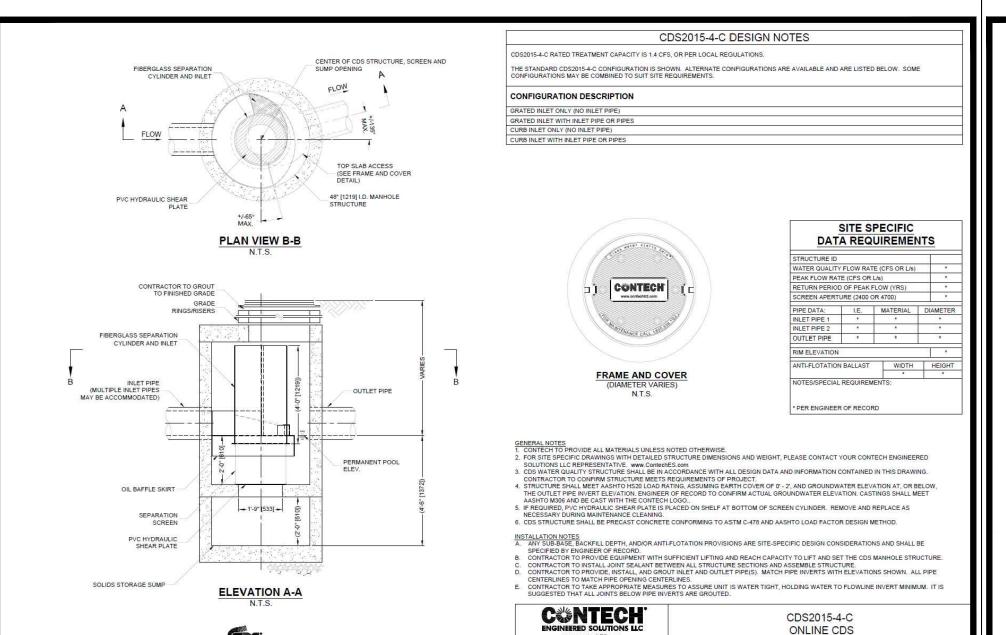
ACCESS WILL BE PROVIDED VIA A MANHOLE(S) LOCATED AT THE END(S) OF THE ROW FOR CLEAN OUT.

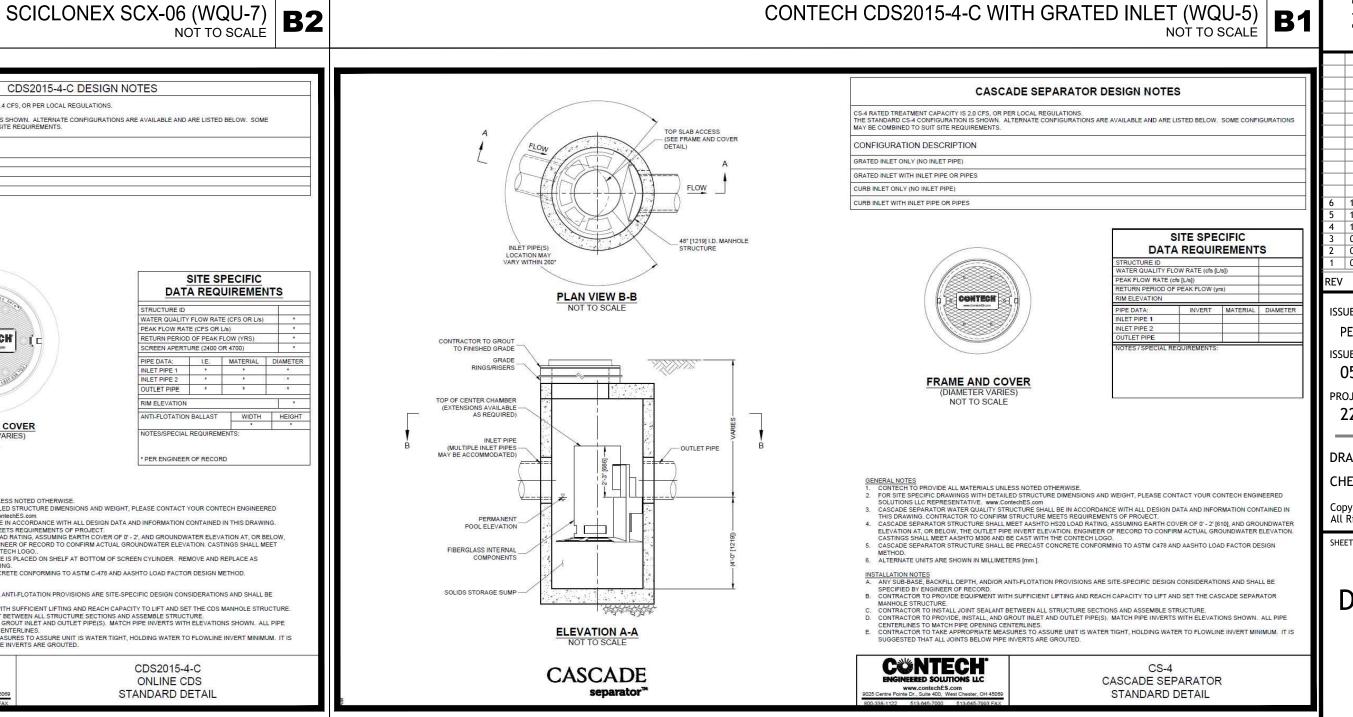
MAINTENANCE OF THE SEPARATOR ROW IS TO BE ACCOMPLISHED WITH A JETVAC PROCESS.

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.









CONTECH CDS2015-4-C WITH GRATED INLET (WQU-5) 10.26.2023 RESPONSE TO COMMENTS 10.19.2023 RESPONSE TO COMMENTS 10.05.2023 RESPONSE TO COMMENTS 08.25.2023 RESPONSE TO COMMENTS 08.14.2023 RESPONSE TO COMMENTS 07.17.2023 RESPONSE TO COMMENTS REV DATE DESCRIPTION ISSUE TYPE: PERMIT SET ISSUE DATE: 05/11/2023 PROJECT NUMBER: 22051 DRAWN BY: JMP CHECKED BY: DH Copyright (c) by Highpoint Engineering, Inc. All Rights Reserved. SHEET TITLE: **DETAIL SHEET**

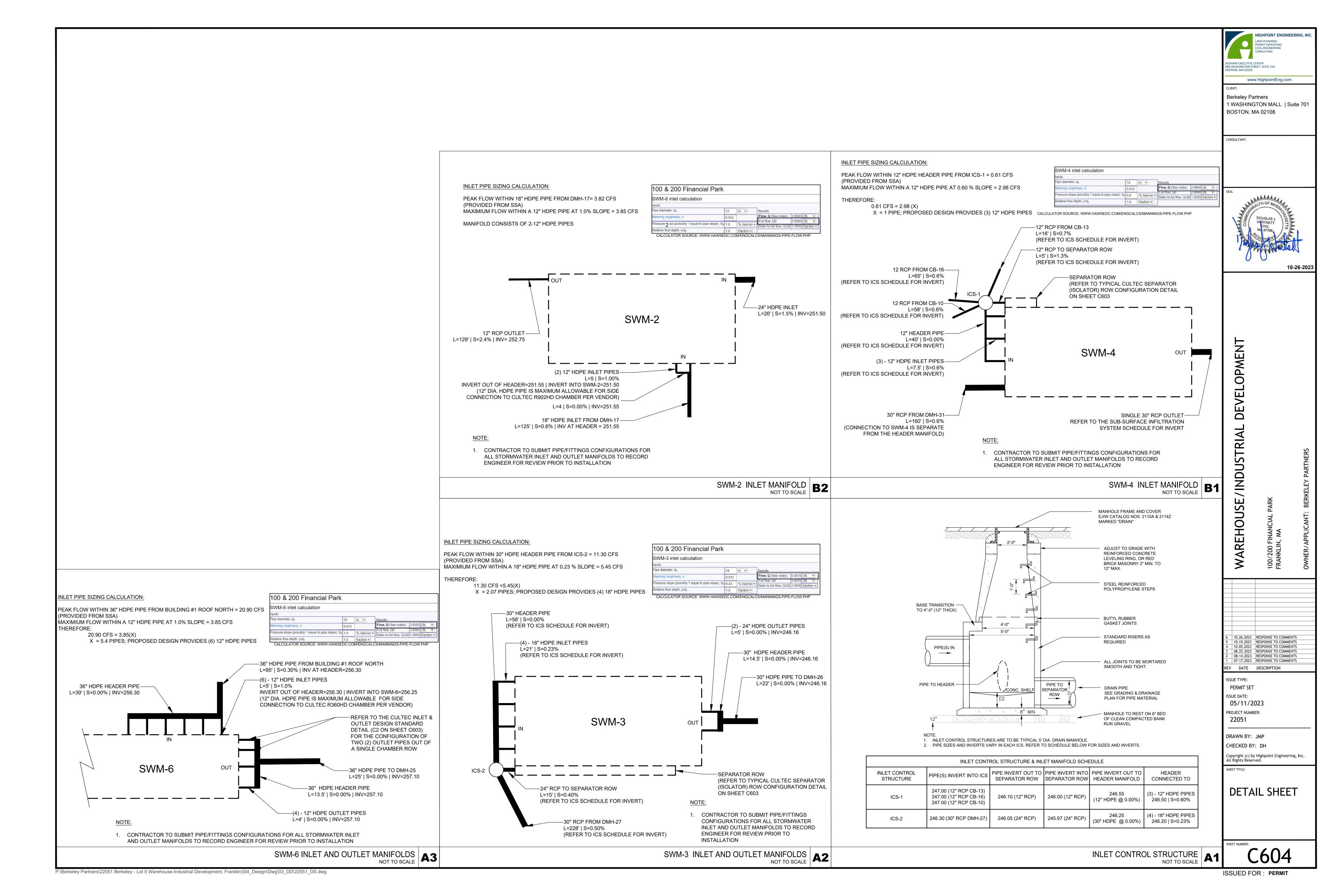
CULTEC SEPARATOR (ISOLATOR) ROW NOTES A3 NOT TO SCALE

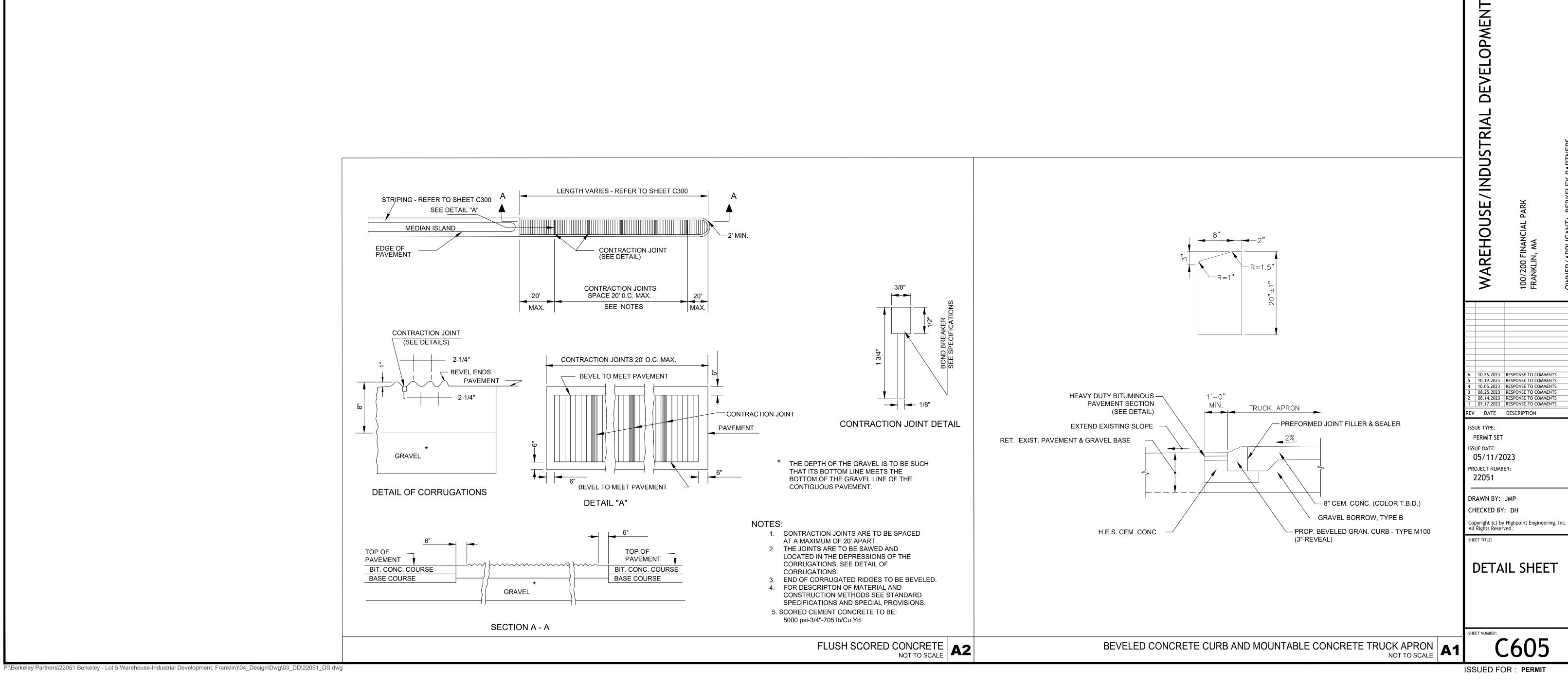
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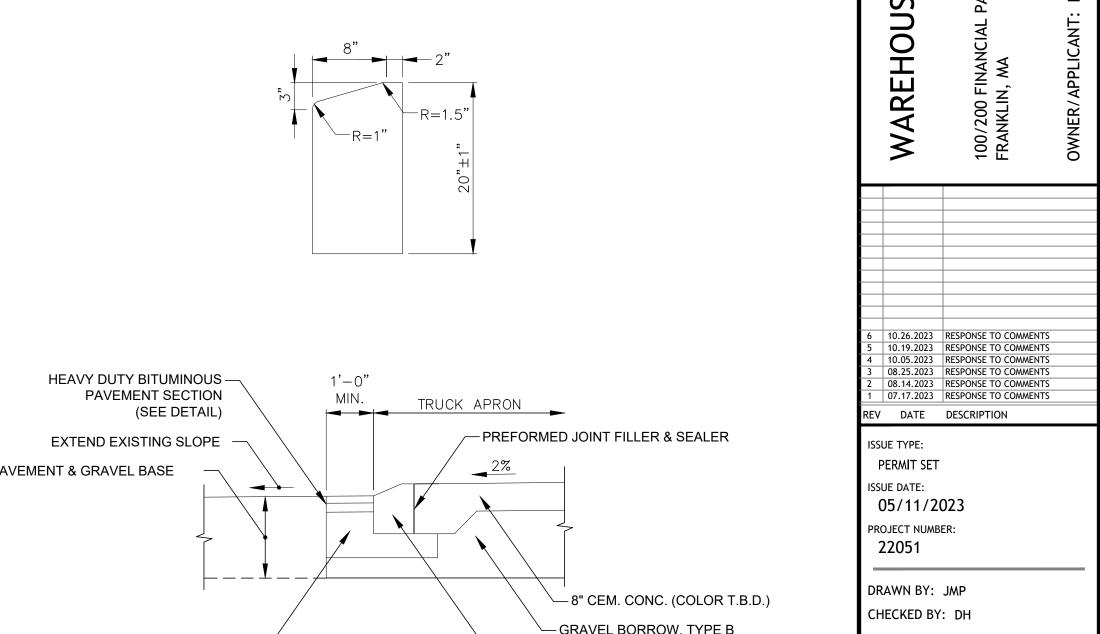
ONLINE CDS

STANDARD DETAIL

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







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CONSULTANT:

ISSUED FOR: PERMIT



MICHAEL D'ANGELO
ANDSCAPE ARCHITECTURE

840 SUMMER STREET
SUITE 201A
BOSTON, MA 02127

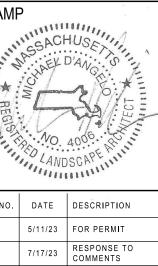
840 SUMMER STREET
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t. 203.592.4788
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CLIENT

BERKELEY PARTNERS

1 WASHINGTON MALL, SUIT
BOSTON, MA

NAREHOUSE / INDUSTRIAL 00 / 200 FINANCIAL PARK RANKLIN, MA



NO.	DATE	DESCRIPTION					
	5/11/23	FOR PERMIT					
	7/17/23	RESPONSE TO COMMENTS					
	8/10/23	RESPONSE TO COMMENTS					
	8/25/23	RESPONSE TO COMMENTS					

LANDSCAPE KEY PLAN

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

SHEET 1 OF 28

NORTH POND BLDG 1
OPOSED WAREHOUSE L104/L204/L404 BUILDING 1 EXISTING
BUILDING 3
(CHAMPAGNE LOGISTICS)
65,000 GSF ±

L105/L205/L405 L106/L206/L406 FINANCIAL PARK L107/L207/L407 LANDSCAPE SHEET LAYOUT - KEY PLAN

SCALE: 1" = 80'-0"

L101/L201/L401

L100/L200/L400

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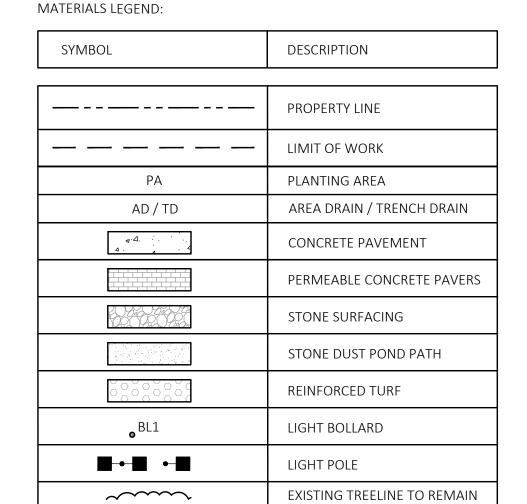
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NOTE: CONTRACTOR IS RESPONSIBLE FOR DETERMINING SLEEVE LOCATIONS AND DISCUSS WITH LANDSCAPE ARCHITECT PRIOR TO CONSTRUCTION.

100' BUFFER ZONE

REFERENCE CIVIL DRAWINGS PA

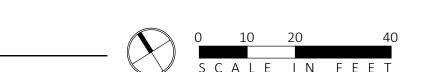
CONCRETE PAVEMENT, TYP.

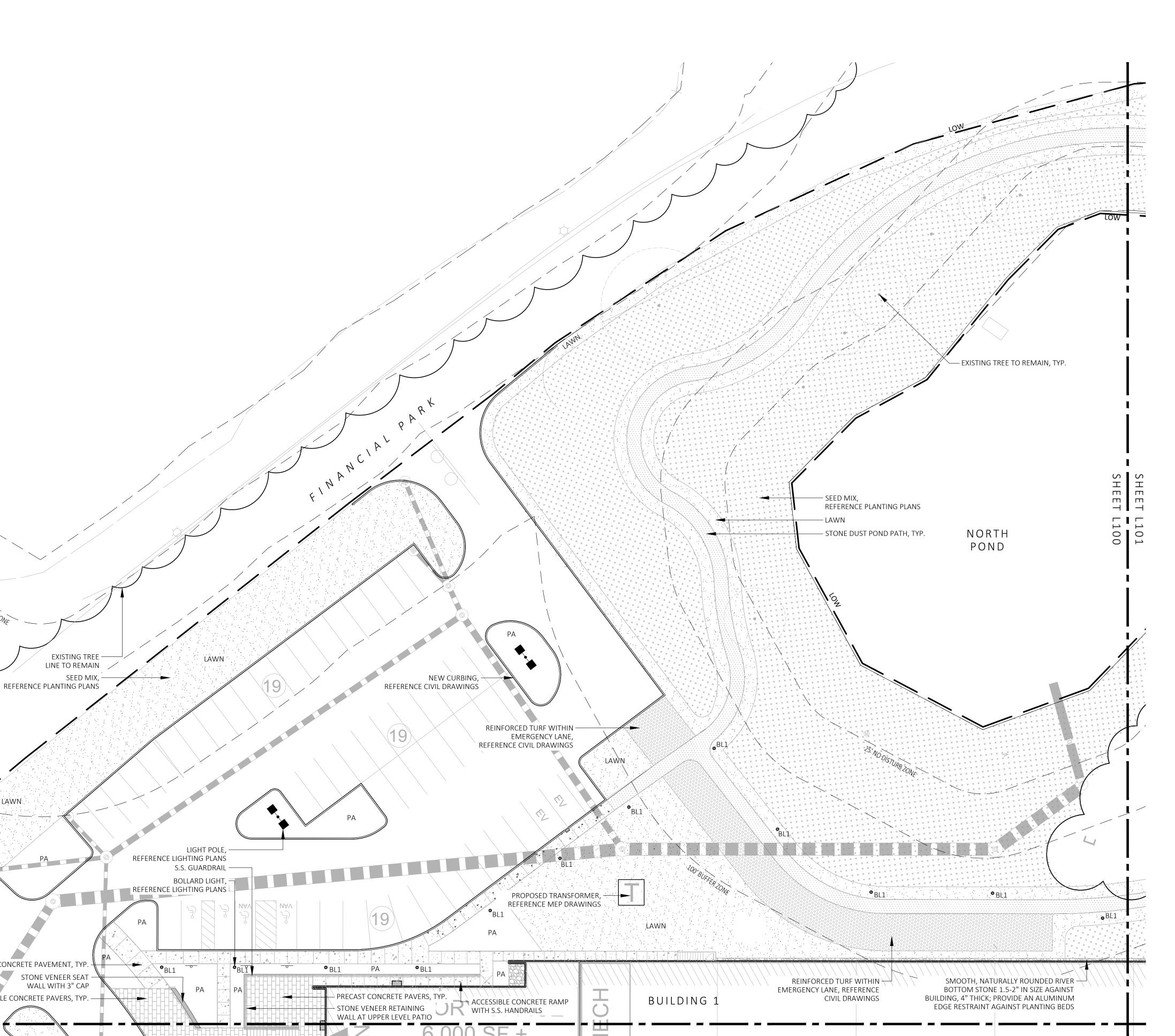
UNDERGROUND DRAINAGE,

STONE VENEER SEAT – WALL WITH 3" CAP PERMEABLE CONCRETE PAVERS, TYP. -SHEET L100

SHEET L102 MATERIALS PLAN

SCALE: 1" = 20'-0"





MICHAEL D'ANGELO 840 SUMMER STREET

SUITE 201A BOSTON, MA 02127 t. 203.592.4788 www.m-d-l-a.com

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PROJECT
WAREHOUSE / I
100 / 200 FINAN
FRANKLIN, MA

STAMP REV. NO. DATE DESCRIPTION

1 7/17/23 RESPONSE TO COMMENTS
2 8/10/23 RESPONSE TO COMMENTS 3 8/25/23 RESPONSE TO COMMENTS

MATERIALS PLAN

L100 AS NOTED DATE:

SHEET 2 OF 28

plot date: 10/26/2023



MICHAEL D'ANGELO ANDSCAPE ARCHITECTURE L

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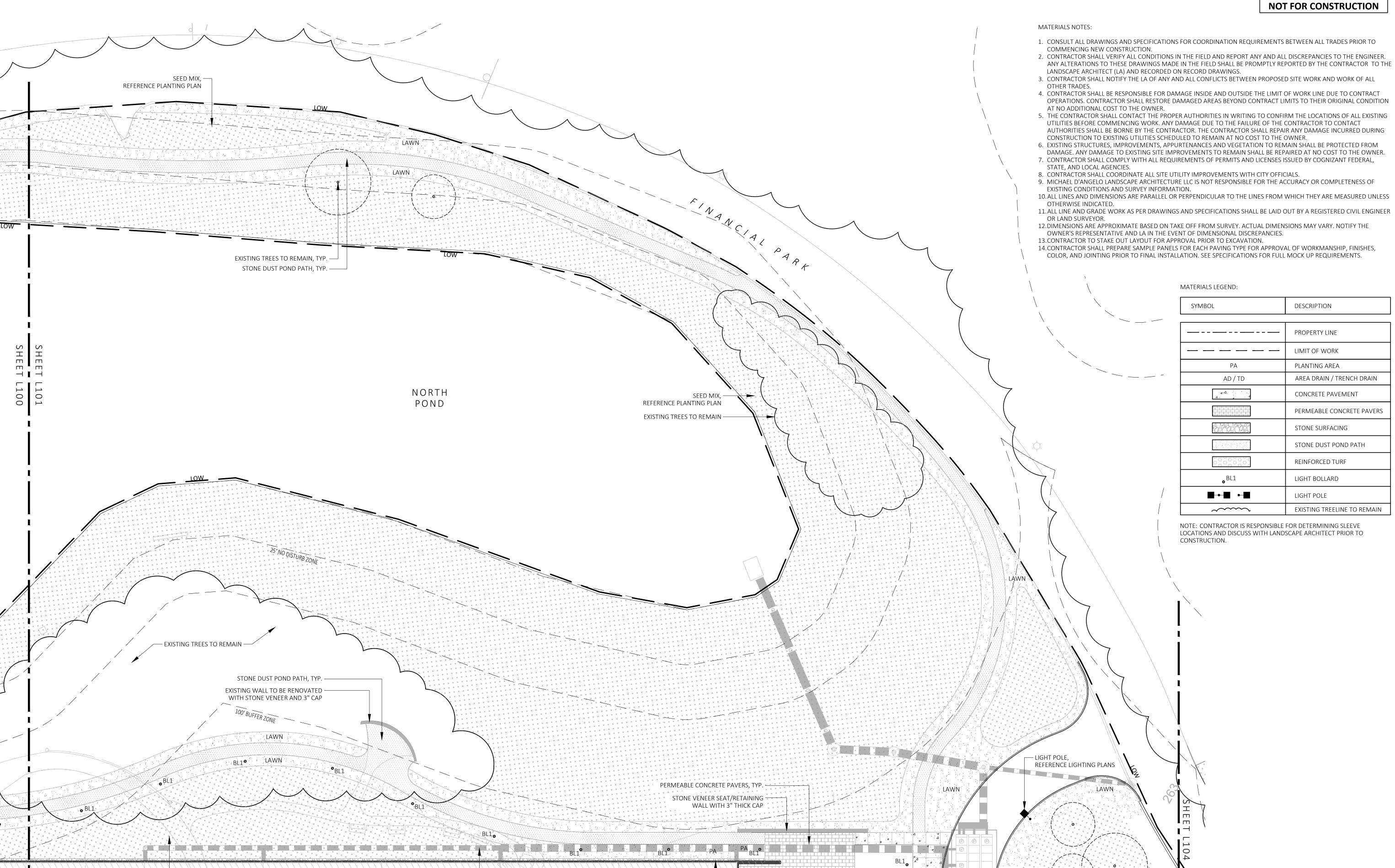
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REV. NO. DATE DESCRIPTION 5/11/23 FOR PERMIT 2 8/10/23 RESPONSE TO COMMENTS 3 8/25/23 RESPONSE TO COMMENTS

MATERIALS PLAN

L101 AS NOTED

SHEET 3 OF 28



SMOOTH, NATURALLY ROUNDED RIVER BOTTOM STONE abla

1.5-2" IN SIZE AGAINST BUILDING, 4" THICK; PROVIDE AN ALUMINUM EDGE RESTRAINT AGAINST PLANTING BEDS

SEED MIX,

REFERENCE PLANTING PLANS

MATERIALS PLAN

UNDERGROUND DRAINAGE, $\overline{\ }$

REFERENCE CIVIL DRAWINGS

BUILDING 1

SHEET L101

SHEET L103

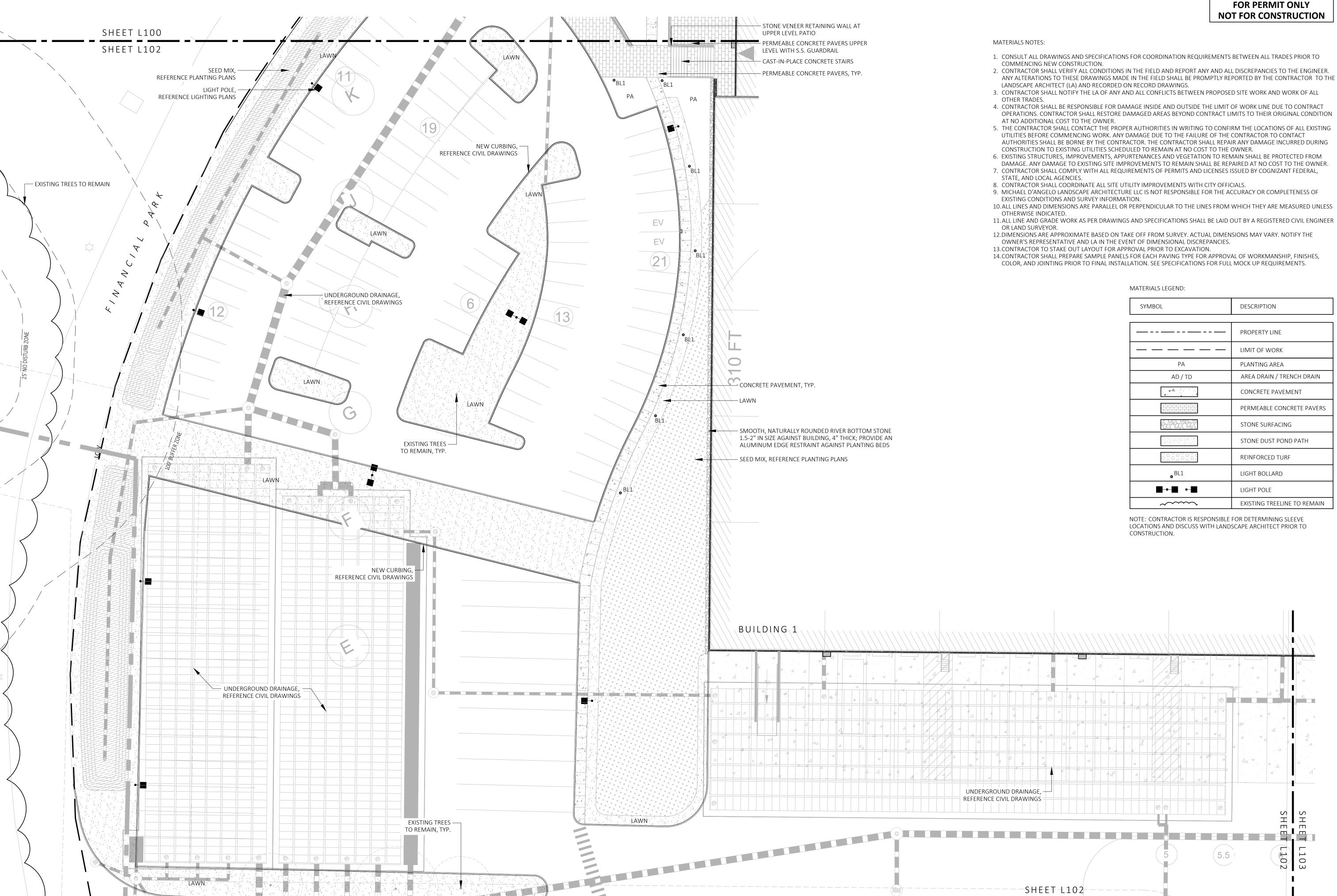
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MATERIALS

PLAN

L102 AS NOTED DATE:

SHEET L105



MATERIALS PLAN

SCALE: 1" = 20'-0"

— EXISTING TREES TO REMAIN

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S C A L E I N F E E T

AND BE PROTECTED, TYP.

- PROPOSED TRANSFORMER, REFERENCE MEP PLANS

REFERENCE PLANTING PLANS

1 GRAVITY BLOCK L124 RETAINING WALL

– LIGHT POLE,

REFERENCE LIGHTING PLANS

– SEED MIX,

MICHAEL D'ANGELO

840 SUMMER STREET SUITE 201A BOSTON, MA 02127 t. 203.592.4788 www.m-d-l-a.com

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TRIAL PROJECT
WAREHOUSE / I
100 / 200 FINAN
FRANKLIN, MA

REV. NO. DATE DESCRIPTION 1 7/17/23 RESPONSE TO COMMENTS
2 8/10/23 RESPONSE TO COMMENTS 3 8/25/23 RESPONSE TO COMMENTS

STAMP

MATERIALS PLAN

L103 SCALE:
AS NOTED
DATE:

SHEET 5 OF 28

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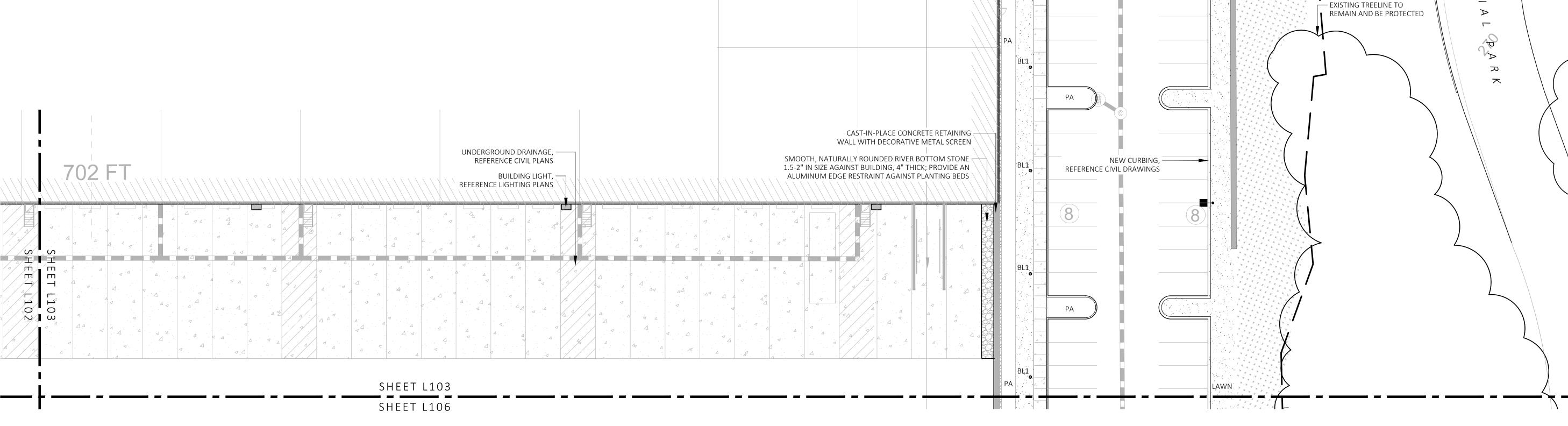
COLOR, AND JOINTING PRIOR TO FINAL INSTALLATION. SEE SPECIFICATIONS FOR FULL MOCK UP REQUIREMENTS.

MATERIALS LEGEND:

SYMBOL	DESCRIPTION
	PROPERTY LINE
	LIMIT OF WORK
PA	PLANTING AREA
AD / TD	AREA DRAIN / TRENCH DRAIN
4·4	CONCRETE PAVEMENT
	PERMEABLE CONCRETE PAVERS
	STONE SURFACING
	STONE DUST POND PATH
000000	REINFORCED TURF
• BL1	LIGHT BOLLARD
	LIGHT POLE
~~~~	EXISTING TREELINE TO REMAIN

NOTE: CONTRACTOR IS RESPONSIBLE FOR DETERMINING SLEEVE LOCATIONS AND DISCUSS WITH LANDSCAPE ARCHITECT PRIOR TO

BUILDING 1



SHEET L101

SHEET L103

CONCRETE PAVING, TYP.

UNDERGROUND DRAINAGE,

REFERENCE CIVIL PLANS

CONCRETE PAVEMENT, TYP.

SMOOTH, NATURALLY ROUNDED RIVER BOTTOM STONE —

1.5-2" IN SIZE AGAINST BUILDING, 4" THICK; PROVIDE AN ALUMINUM EDGE RESTRAINT AGAINST PLANTING BEDS

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PERMEABLE CONCRETE -PAVERS, TYP.

PA

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CLIENT
BERKELEY PARTNERS
1 WASHINGTON MALL, SU
BOSTON, MA

WAREHOUSE / INDUSTRIAL 100 / 200 FINANCIAL PARK FRANKLIN, MA

NO. DATE DESCRIPTION

5/11/23 FOR PERMIT

7/17/23 RESPONSE TO COMMENTS

8/10/23 RESPONSE TO COMMENTS

8/25/23 RESPONSE TO COMMENTS

MATERIALS PLAN

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

EET 6 OF 28

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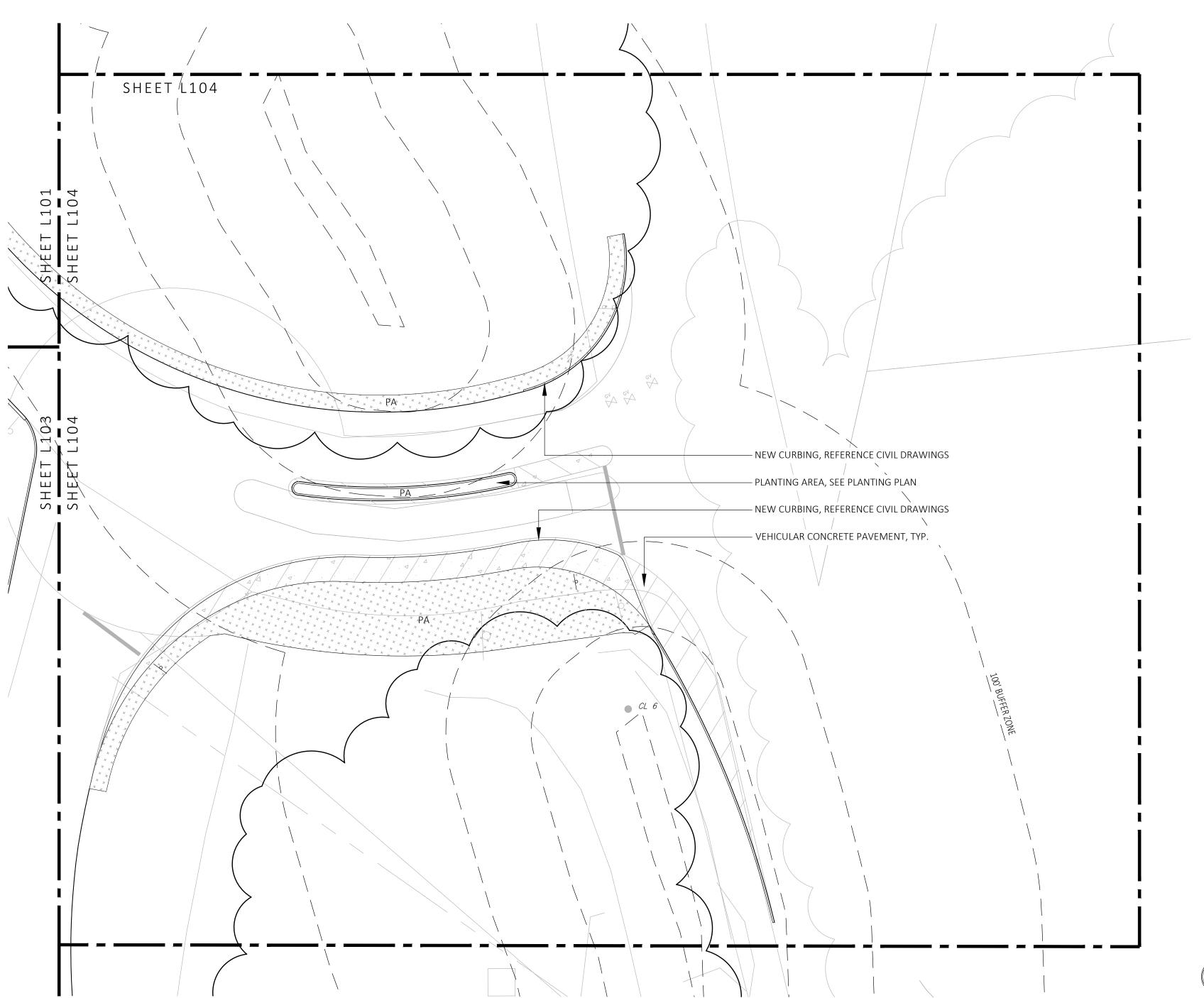
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SYMBOL DESCRIPTION PROPERTY LINE LIMIT OF WORK _ _ _ _ _ _ PA PLANTING AREA AD/TD AREA DRAIN / TRENCH DRAIN CONCRETE PAVEMENT PERMEABLE CONCRETE PAVERS STONE SURFACING STONE DUST POND PATH REINFORCED TURF •BL1 LIGHT BOLLARD -LIGHT POLE ~~~~ EXISTING TREELINE TO REMAIN

NOTE: CONTRACTOR IS RESPONSIBLE FOR DETERMINING SLEEVE LOCATIONS AND DISCUSS WITH LANDSCAPE ARCHITECT PRIOR TO CONSTRUCTION.





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FOR PERMIT ONLY
NOT FOR CONSTRUCTION

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4. CONTRACTOR SHALL BE RESPONSIBLE FOR DAMAGE INSIDE AND OUTSIDE THE LIMIT OF WORK LINE DUE TO CONTRACT OPERATIONS. CONTRACTOR SHALL RESTORE DAMAGED AREAS BEYOND CONTRACT LIMITS TO THEIR ORIGINAL CONDITION AT NO ADDITIONAL COST TO THE OWNER.

5. THE CONTRACTOR SHALL CONTACT THE PROPER AUTHORITIES IN WRITING TO CONFIRM THE LOCATIONS OF ALL EXISTING UTILITIES BEFORE COMMENCING WORK. ANY DAMAGE DUE TO THE FAILURE OF THE CONTRACTOR TO CONTACT AUTHORITIES SHALL BE BORNE BY THE CONTRACTOR. THE CONTRACTOR SHALL REPAIR ANY DAMAGE INCURRED DURING CONSTRUCTION TO EXISTING UTILITIES SCHEDULED TO REMAIN AT NO COST TO THE OWNER.

6. EXISTING STRUCTURES, IMPROVEMENTS, APPURTENANCES AND VEGETATION TO REMAIN SHALL BE PROTECTED FROM DAMAGE. ANY DAMAGE TO EXISTING SITE IMPROVEMENTS TO REMAIN SHALL BE REPAIRED AT NO COST TO THE OWNER.

7. CONTRACTOR SHALL COMPLY WITH ALL REQUIREMENTS OF PERMITS AND LICENSES ISSUED BY COGNIZANT FEDERAL,

STATE, AND LOCAL AGENCIES.

8. CONTRACTOR SHALL COORDINATE ALL SITE UTILITY IMPROVEMENTS WITH CITY OFFICIALS.

9. MICHAEL D'ANGELO LANDSCAPE ARCHITECTURE LLC IS NOT RESPONSIBLE FOR THE ACCURACY OR COMPLETENESS OF EXISTING CONDITIONS AND SURVEY INFORMATION.

10. ALL LINES AND DIMENSIONS ARE PARALLEL OR PERPENDICULAR TO THE LINES FROM WHICH THEY ARE MEASURED UNLESS OTHERWISE INDICATED.

11. ALL LINE AND GRADE WORK AS PER DRAWINGS AND SPECIFICATIONS SHALL BE LAID OUT BY A REGISTERED CIVIL ENGINEER OR LAND SURVEYOR.

12.DIMENSIONS ARE APPROXIMATE BASED ON TAKE OFF FROM SURVEY. ACTUAL DIMENSIONS MAY VARY. NOTIFY THE

OWNER'S REPRESENTATIVE AND LA IN THE EVENT OF DIMENSIONAL DISCREPANCIES.

13. CONTRACTOR TO STAKE OUT LAYOUT FOR APPROVAL PRIOR TO EXCAVATION.

14. CONTRACTOR SHALL PREPARE SAMPLE PANELS FOR EACH PAVING TYPE FOR APPROVAL OF WORKMANSHIP, FINISHES, COLOR, AND JOINTING PRIOR TO FINAL INSTALLATION. SEE SPECIFICATIONS FOR FULL MOCK UP REQUIREMENTS.

SYMBOL	DESCRIPTION
	PROPERTY LINE
	LIMIT OF WORK
РА	PLANTING AREA
AD/TD	AREA DRAIN / TRENCH DRAIN
4·4. · · · · · · · · · · · · · · · · · ·	CONCRETE PAVEMENT
	PERMEABLE CONCRETE PAVERS
	STONE SURFACING
	STONE DUST POND PATH
000000000000000000000000000000000000000	REINFORCED TURF
•BL1	LIGHT BOLLARD
■・■ ・■	LIGHT POLE
~~~~	EXISTING TREELINE TO REMAIN

NOTE: CONTRACTOR IS RESPONSIBLE FOR DETERMINING SLEEVE LOCATIONS AND DISCUSS WITH LANDSCAPE ARCHITECT PRIOR TO CONSTRUCTION.

SHEET L102 SHEET L105 UNDERGROUND DRAINAGE, REFERENCE CIVIL PLANS LAWN LAWN LAWN - EXISTING CONCRETE STAIR EXISTING TREES TO REMAIN -AND LANDING TO REMAIN AND BE PROTECTED REFERENCE PROPOSED TRANSFORMER, REFERENCE MEP PLANS CONCRETE PAVEMENT, TYP. **EXISTING** REFERENCE CIVIL PLANS BUILDING 2 50 BLDG 3 REFERENCE LIGHTING PLANS NEW CURBING, REFERENCE CIVIL DRAWINGS 200 FINAUNGAL PARK (CHAMPAGNE LOGISTICS)

B 65,000 GSF ± 5 - 6 - EXISTING TREES TO REMAIN AND BE PROTECTED, TYP. SHEET L105 SHEET L107

MICHAEL D'ANGELO landscape architec

MICHAEL D'ANGELO DSCAPE ARCHITECTURE LLC

840 SUMMER STREET SUITE 201A BOSTON, MA 02127 t. 203.592.4788 www.m-d-l-a.com

ENI RKELEY PARTNERS VASHINGTON MALL, SUITE 70 STON MA

CI 1 B(B(

> JECI REHOUSE / INDUSTRIAL DE / 200 FINANCIAL PARK

REV. NO. DATE DESCRIPTION

5/11/23 FOR PERMIT

1 7/17/23 RESPONSE TO COMMENTS

MATERIALS

PLAN

DRAWN:
AA,NC
CHECKED:
NC
SCALE:
AA NOTED

AS NOTED

DATE:
5/11/2023

SHEET 7 OF 28

SCALE: 1" = 20'-0"

0

CLIENT BERKELEY PARTNERS 1 WASHINGTON MALL, SUITE BOSTON, MA

> 'AREHOUSE / INDUSTRIAL DE 30 / 200 FINANCIAL PARK 8ANKLIN, MA

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

MATERIALS PLAN

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 CONSULT ALL DRAWINGS AND SPECIFICATIONS FOR COORDINATION REQUIREMENTS BETWEEN ALL TRADES PRIOR TO COMMENCING NEW CONSTRUCTION.
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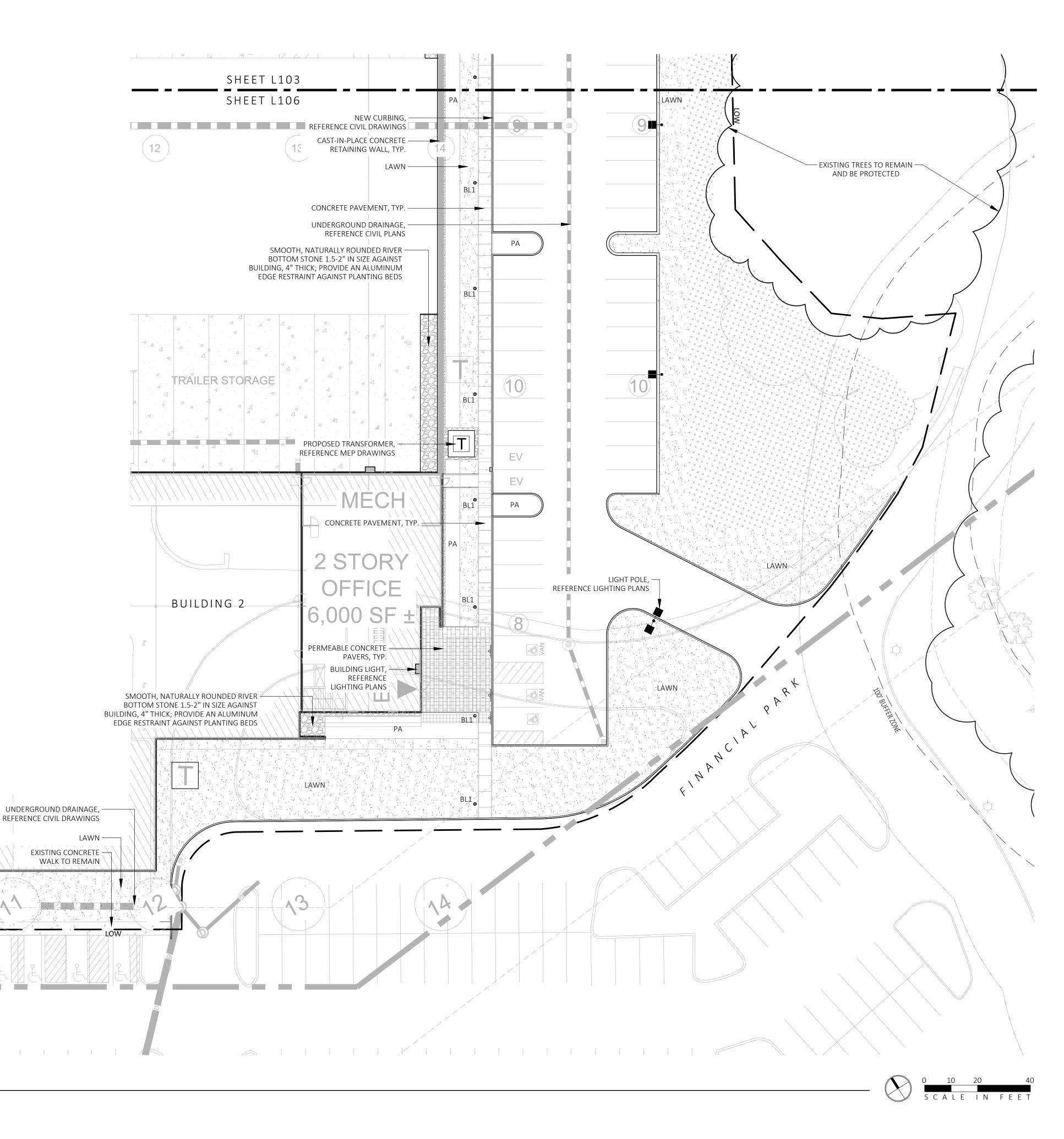
COLOR, AND JOINTING PRIOR TO FINAL INSTALLATION. SEE SPECIFICATIONS FOR FULL MOCK UP REQUIREMENTS.

MATERIALS LEGEND:

SYMBOL	DESCRIPTION
	- PROPERTY LINE
	- LIMIT OF WORK
PA	PLANTING AREA
AD / TD	AREA DRAIN / TRENCH DRAIN
g.4	CONCRETE PAVEMENT
	PERMEABLE CONCRETE PAVERS
	STONE SURFACING
	STONE DUST POND PATH
000000	REINFORCED TURF
•BL1	LIGHT BOLLARD
	LIGHT POLE
~~~~	EXISTING TREELINE TO REMAIN

NOTE: CONTRACTOR IS RESPONSIBLE FOR DETERMINING SLEEVE LOCATIONS AND DISCUSS WITH LANDSCAPE ARCHITECT PRIOR TO

ONSTRUCTION.



MATERIALS PLAN

SCALE: 1" = 20'-0"

10 10 351 FT

SHEET 8 OF 28

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S CLIEN BERKE 1 WAS BOST

TRIAL PARK

1 7/17/23 RESPONSE TO COMMENTS
2 8/10/23 RESPONSE TO COMMENTS
3 8/25/23 RESPONSE TO COMMENTS

MATERIALS PLAN

L107

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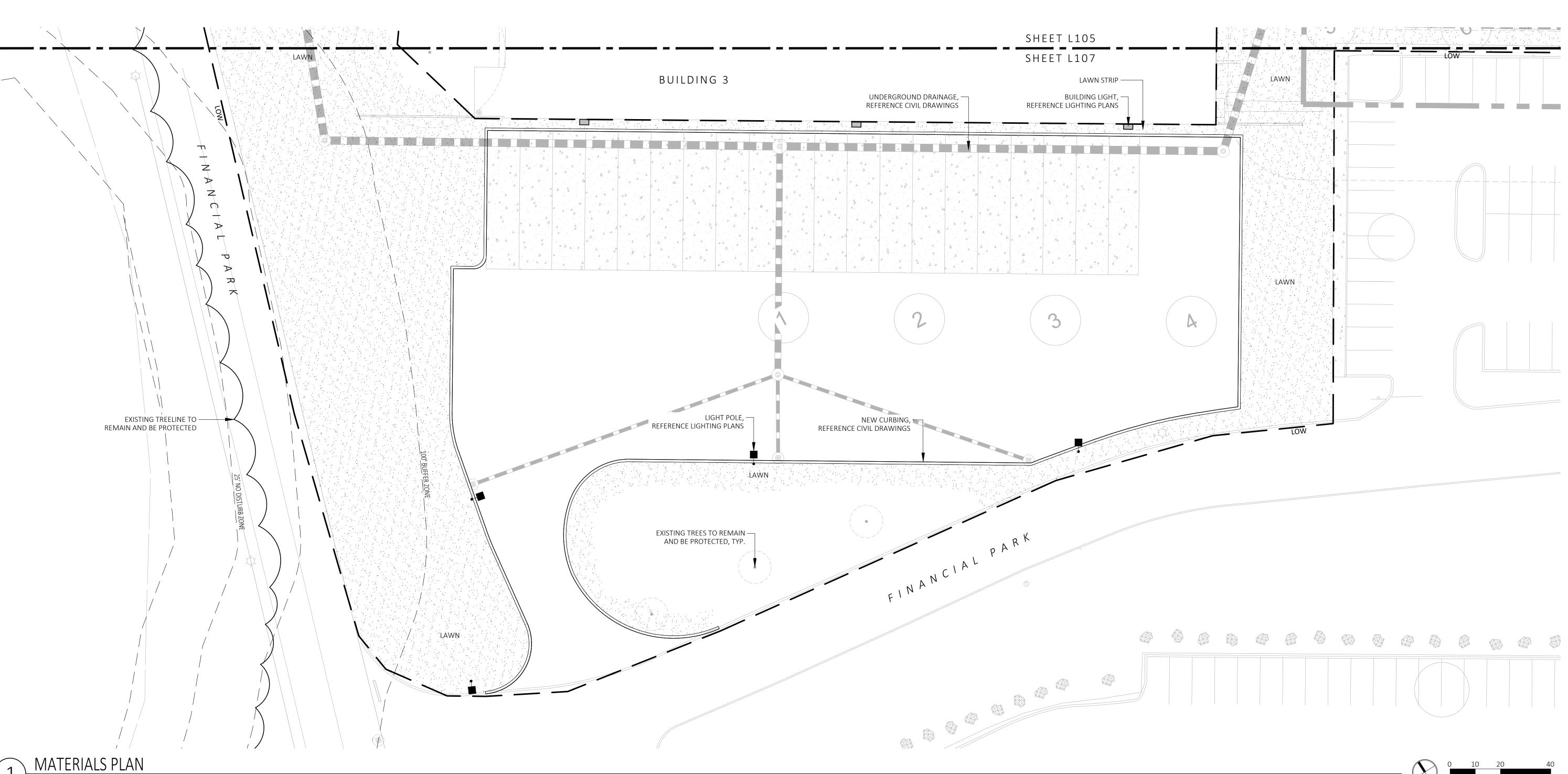
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DESCRIPTION SYMBOL _______ PROPERTY LINE LIMIT OF WORK PA PLANTING AREA AD/TD AREA DRAIN / TRENCH DRAIN CONCRETE PAVEMENT PERMEABLE CONCRETE PAVERS STONE SURFACING STONE DUST POND PATH REINFORCED TURF •BL1 LIGHT BOLLARD • LIGHT POLE ~~~~ EXISTING TREELINE TO REMAIN

NOTE: CONTRACTOR IS RESPONSIBLE FOR DETERMINING SLEEVE LOCATIONS AND DISCUSS WITH LANDSCAPE ARCHITECT PRIOR TO CONSTRUCTION.



PLANTING & LIGTHING PLAN

MICHAEL D'ANGELO landscape architectur

MICHAEL D'ANGELO

NDSCAPE ARCHITECTURE L

840 SUMMER STRFFT

840 SUMMER STREET SUITE 201A BOSTON, MA 02127 t. 203.592.4788 www.m-d-l-a.com

CLIENT
BERKELEY PARTNERS
1 WASHINGTON MALL, SU
BOSTON, MA

PROJECT
WAREHOUSE / INDUSTRIAL D
100 / 200 FINANCIAL PARK
FRANKLIN, MA

STAMP

SSACHUSE

NO. 4008

REV. NO. DATE DESCRIPTION

5/11/23 FOR PERMIT

1 7/17/23 RESPONSE TO COMMENTS

PERCENCIPATION

5/11/23 FOR PERMIT

1 7/17/23 RESPONSE TO COMMENTS

2 8/10/23 RESPONSE TO COMMENTS

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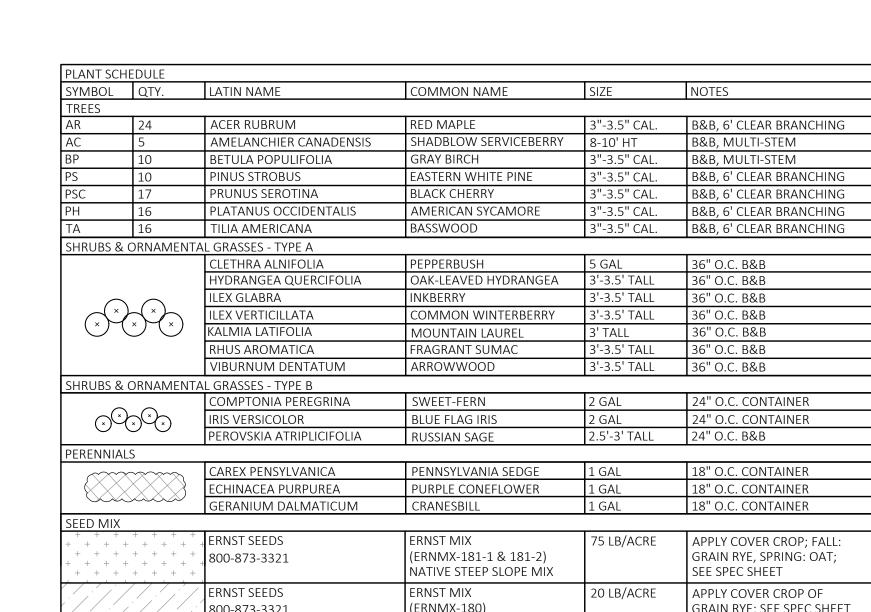
PLANTING & LIGHTING PLAN

DRAWN:
AA,NC
CHECKED:
NC
SCALE:
AS NOTED
DATE:
5/44/0000

SHEET 10 OF 28

SCALE IN FEET

plot date: 10/26/2023



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

LIGHT SCHEDULE

SL4-2

- EXISTING TREE

NORTH

POND

BUILDING 1

- SEED MIX 1 - NATIVE STEEP

SLOPES (SPRING & FALL)

– SEĘD MIX 1. - NATIVĘ STEĘP

SLOPES (SPRING & FALL)

TO REMAIN, TYP

L---- SEEDED LAWN

- SEED MIX 1 - NATIVE STEEF

SLOPES (SPRING & FALL)

WL3

 $BL1 \rightarrow$ 

SHEET L201

SHEET L203

SYMBOL LABEL MODEL

ARCLUCE KLOU180 BOLLARD

RWL1-48L-25-3K7-4W-U

BEACON RATIO SITE FIXTURE RAR1-160L-135-3K7-3-U

BEACON RATIO SITE FIXTURE

BEACON RATIO SITE FIXTURE

RAR1-160L-135-3K7-4W-U

BEACON RATIO WALL FIXTURE

BEACON RATIO WALL FIXTURE

SS-B-20-40-A-2-B3-FINISH

RWL1-48L-25-3K7-4W-U

RWL2-160L-135-3K7-4-U

DL-ES-15-O-30K-HC-24-A-DL-

RAR1-160L-135-3K7-4W-U

BEACON SSS-B POLE SSS-B-20-40-A-1-B3-FINISH

BEACON SSS-B POLE SSS-B-20-40-A-1-B3-FINISH

BEACON SSS-B POLE

ALUM-U-8

MOUNT

CONCRETE FOOTING;

KEEP 3" ABOVE GRADE

CONCRETE FOOTING;

CONCRETE FOOTING;

**BUILDING MOUNT** 

BUILDING MOUNT

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

ALUMINUM CHANNEL

**EXISTING TREES** 

TO REMAIN

⊢ BL1

- SHRUBS AND

GRASSES - TYPE A (TYP)

KEEP 24" ABOVE GRADE IN ASPHALT | SINGLE

KEEP 24" ABOVE GRADE IN ASPHALT BACK BACK

KEEP 3" ABOVE GRADE IN ISLANDS

KEEP 24" ABOVE GRADE IN ASPHALT

KEEP 3" ABOVE GRADE IN ISLANDS

KEEP 3" ABOVE GRADE IN ISLANDS

ARRANGEMENT OPTIONS REP

COLOR:

COLOR:

COLOR:

COLOR:

COLOR:

COLOR:

LUMINATE

17-947-8996

PRUDHOMME

GRAY

PEDESTRIAN

BOLLARD

SINGLE

RECESSED

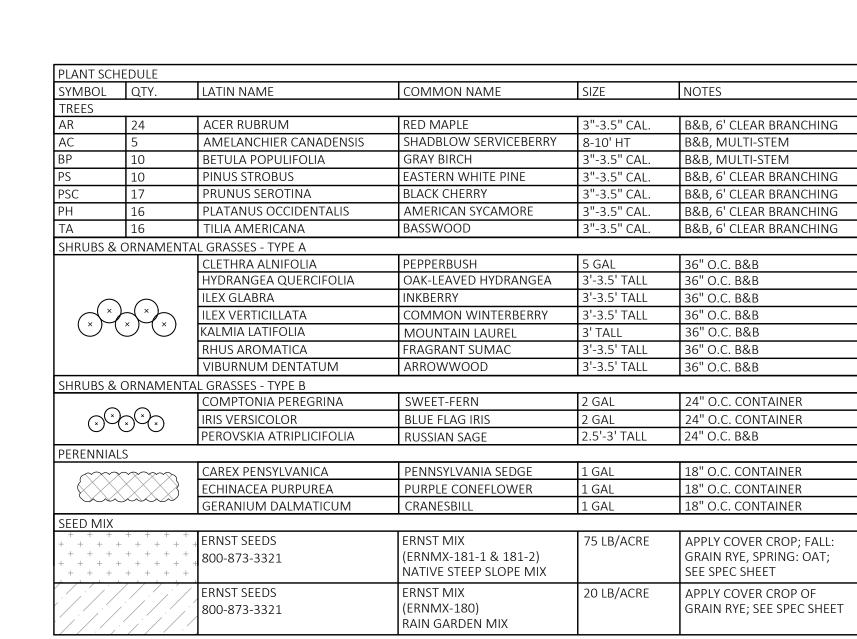
- 1. DURING CONSTRUCTION, PROTECT ALL EXISTING SITE FEATURES, STRUCTURES AND UTILITIES.
- ARCHITECT RESERVES THE RIGHT TO SEE ALL MATERIAL IN PERSON AT THE NURSERY. IF TRAVEL OUTSIDE OF MA IS REQUIRED, LANDSCAPE ARCHITECT'S TRAVEL COSTS SHALL BE PAID FOR BY THE CONTRACTOR. 4. ALL EXPOSED BURLAP, WIRE 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. 5. THOROUGHLY WATER ALL PLANTS IMMEDIATELY AFTER PLANTING.
- 6. WHERE DISCREPANCIES IN QUANTITIES OCCUR, DRAWINGS SUPERCEDE PLANT NOTES AND SCHEDULE. 7. TRANSPLANTING SHALL BE DONE IN ACCORDANCE WITH THE AMERICAN STANDARD FOR NURSERY STOCK. 8. LOAM USED IN PLANT BEDS SHALL BE UNIFORM IN COMPOSITION, FREE FROM SUBSOIL, STONES LARGER
- SHALL BE BETWEEN 5.5 AND 6.5. 9. MULCH IN TREE AND SHRUB BEDS SHALL BE NATURAL, NATIVE HEMLOCK MULCH FREE OF GROWTH OR
- 10.LOCATIONS FOR PLANTS AND/OR OUTLINE OF AREAS TO BE PLANTED ARE TO BE STAKED OUT AT THE SITE
- 11. SOIL DEPTHS: a.) SHRUBS AND PERENNIAL BEDS: 18" MIN.; b.) GROUNDCOVER: 6" MIN.; c.) TREES: SEE DETAIL; d.) SOD/SEED: 6"MIN.
- 12.PROVIDE A SUBSURFACE ROOTBALL ANCHOR BY PLATIPUS EARTH ANCHORS, SIZE FOR CALIPER

– EXISTING TREES

SCALE IN FEET

TO REMAIN, TYP

- 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
- 3. IRRIGATION CONTRACTOR SHALL VERIFY PSI/GPM REQUIREMENTS AT THE SITE BEFORE STARTING
- 4. TREES SHOULD BE ON A SEPARATE ZONE.
- 5. ALL TREES, SHRUBS, PERENNIALS, ORNAMENTAL GRASSES, AND GROUNDCOVER 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.
- 6. ALL LAWN AREAS SHALL BE SPRAY HEAD IRRIGATED. THE HEADS SHALL BE LOCATED FOR HEAD TO HEAD THE PAVEMENT.
- 7. INSTALL DRIP TUBING, .6GPH, 12" CENTERS, STAKED EVERY TURN OR EVERY 4' 8. 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.
- 9. THE IRRIGATION CONTRACTOR SHALL CONFORM TO ANY LOCAL CODES OR ORDINANCES THAT MAY BE REQUIRED TO COMPLETE THE WORK. 10. WATER SUPPLY AND CONTROLLER: COORDINATE
- CONTRACTOR. COORDINATE CONTROLLER LOCATION WITH GENERAL CONTRACTOR. 11.MEP CONTRACTOR TO PROVIDE BACK FLOW
- PREVENTION. 12. THE IRRIGATION CONTRACTOR SHALL TEST WATER SOURCE FOR WATER QUALITY INCLUDING MINERALS
- 13.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



#### PLANTING:

─ SEED MIX 1 - NATIVE STEEP

SLOPES (SPRING & FALL)

MH: 22'

SEEDED

SHRUBS AND

GRASSES - TYPE B (TYP)

LAWN

- 2. 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 3. LANDSCAPE ARCHITECT APPROVAL IS REQUIRED BEFORE PLANT MATERIAL IS PURCHASED. LANDSCAPE
- THAN 1", NOXIOUS SEEDS AND SUITABLE FOR THE SUPPORT OF VEGETATIVE GROWTH. THE pH VALUE
- GERMINATION INHIBITING INGREDIENTS. SUBMIT SAMPLES FOR APPROVAL.
- FOR APPROVAL BY THE LANDSCAPE ARCHITECT.

# **GENERAL IRRIGATION NOTES:**

- 1. THE DESIGN/BUILD IRRIGATION SUB-CONTRACTOR COMPONENTS. INCLUDE ANY NECESSARY SLEEVING ON
- A DIAGRAM. 2. IRRIGATION TO BE COORDINATED WITH GENERAL CONTRACTOR TO LOCATE THE NECESSARY PVC SLEEVING TO COMPLETE IRRIGATION PROGRAM.
- CONSTRUCTION.
- COVERAGE WITH ABSOLUTELY NO OVER SPRAY ONTO
- CONNECTION TO WATER SUPPLY WITH GENERAL
- THAT MAY CAUSE STAINING OF CONCRETE AND PAVING
- SURFACES. MOISTURE REQUIREMENTS ARE MET

PLANTING & LIGTHING PLAN

TO REMAIN

SMOOTH, NATURALLY ROUNDED RIVER BOTTOM STONE

1.5-2" IN SIZE AGAINST BUILDING, 4"THICK; PROVIDE AN

ALUMINUM EDGE RESTRAINT AGAINST PLANTING BEDS

SHEET 11 OF 28

plot date: 10/26/2023

MICHAEL D'ANGELO NDSCAPE ARCHITECTURE L

840 SUMMER STREET SUITE 201A BOSTON, MA 02127 t. 203.592.4788

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www.m-d-l-a.com

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TRIAL PROJECT
WAREHOUS
100 / 200 F
FRANKLIN,

STAMP

PLAN

3 8/25/23 RESPONSE TO COMMENTS

840 SUMMER STREET

SUITE 201A

BOSTON, MA 02127

SHEET 12 OF 28

PLANT SCHEDULE SYMBOL QTY. LATIN NAME COMMON NAME SIZE NOTES ACER RUBRUM RED MAPLE 3"-3.5" CAL. B&B, 6' CLEAR BRANCHING AMELANCHIER CANADENSIS SHADBLOW SERVICEBERRY B&B. MULTI-STEM BETULA POPULIFOLIA GRAY BIRCH B&B. MULTI-STEM 3"-3.5" CAL. INUS STROBUS EASTERN WHITE PINE B&B, 6' CLEAR BRANCHING STRUCTURES AND UTILITIES. RUNUS SEROTINA BLACK CHERRY B&B, 6' CLEAR BRANCHING 3"-3.5" CAL. PLATANUS OCCIDENTALIS AMERICAN SYCAMORE 3"-3.5" CAL. B&B, 6' CLEAR BRANCHING TILIA AMERICANA 3"-3.5" CAL. B&B, 6' CLEAR BRANCHING BASSWOOD HRUBS & ORNAMENTAL GRASSES - TYPE A ETHRA ALNIFOLIA PEPPERBUSH YDRANGEA QUERCIFOLIA OAK-LEAVED HYDRANGEA 3'-3.5' TALL 36" O.C. B&B EX GLABRA 3'-3.5' TALL LEX VERTICILLATA COMMON WINTERBERRY 3'-3.5' TALL 36" O.C. B&B ALMIA LATIFOLIA MOUNTAIN LAUREL 36" O.C. B&B HUS AROMATICA FRAGRANT SUMAC 3'-3.5' TALL 36" O.C. B&B ARROWWOOD 36" O.C. B&B VIBURNUM DENTATUM 3'-3.5' TALL

HRUBS & ORNAMENTAL GRASSES - TYPE B 24" O.C. CONTAINER OMPTONIA PEREGRINA SWEET-FERN 24" O.C. CONTAINER BLUE FLAG IRIS RIS VERSICOLOR PEROVSKIA ATRIPLICIFOLIA RUSSIAN SAGE PERENNIALS 18" O.C. CONTAINER PENNSYLVANIA SEDGE CAREX PENSYLVANICA CHINACEA PURPUREA 18" O.C. CONTAINER PURPLE CONEFLOWER GERANIUM DAI MATICUM CRANESBILL 18" O.C. CONTAINER

RNST SEEDS ERNST MIX APPLY COVER CROP: FALL: 75 LB/ACRE GRAIN RYE, SPRING: OAT; 800-873-3321 (ERNMX-181-1 & 181-2) NATIVE STEEP SLOPE MIX SEE SPEC SHEET **ERNST MIX** ERNST SEEDS 20 LB/ACRE APPLY COVER CROP OF (ERNMX-180)

RAIN GARDEN MIX

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

800-873-3321

RUDBECKIA LACINIATA

WL4

MH: 25'

SEED MIX 1 - NATIVE STEEP SLOPES (SPRING & FALL)

SCHIZACHYRIUM SCOPARIUM

FD MIX

SHRUBS AND

MH: 22'

BL1 -

EV

EV

BL1

BL1 -

SMOOTH, NATURALLY 21

PLANTING BEDS

ROUNDED RIVER BOTTOM

STONE 1.5-2" IN SIZE

AGAINST BUILDING, 4" THICK;

PROVIDE AN ALUMINUM

EDGE RESTRAINT AGAINST

PERENNIALS AND -

GRASSES - TYPE B (TYP)

GROUND COVER (TYP)

MH: 22'

2 PH —

SL4 — MH: 22' _

**EXISTING TREE** 

- SL4-2

SEEDED LAWN

**EXISTING TREES** TO REMAIN TO REMAIN

MH: 22'

	NTION		001414011114145	NOTES
	QIY.	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	BROOMSEDGE	GRASS, FULL SUN, WET MEADOW
DC		DESCHAMPSIA CESPITOSA	TUFTED HAIRGRASS	GRASS, SUN, MESIC TO WET MESIC
НН		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

ALL PROPOSED PLANTINGS FROM VOLUME 2, CHAPTER 2: STRUCTURAL BMP SPECIFICATIONS FOR THE MASSACHUSETTS STORMWATER

LITTLE BLUESTEM

GREEN-HEADED CONEFLOWER GRASS, SUN/SHADE

GRASS, SUN/SHADE

WALL LIGHT

WL4 -

MH: 25'

SHEET L202

SHEET L205

LIGHT SCH	IEDULE					
SYMBOL	LABEL	MODEL	MOUNT	ARRANGEMENT	OPTIONS	REP
0	BL1	ARCLUCE KLOU180 BOLLARD RWL1-48L-25-3K7-4W-U	CONCRETE FOOTING; KEEP 3" ABOVE GRADE	PEDESTRIAN BOLLARD	COLOR: GRAY	
SL3	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	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
SL4-2	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	ВАСК ВАСК	COLOR: BLK	STEVE PRUDHOMME
	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-	ALLIMINUM CHANNEL	RECESSED		

**ALUMINUM CHANNEL** 

 $3UU \times DING$  submit cut sheets for approval; see photometric plan provided with this drawing set for more information.

## PLANTING:

- 1. DURING CONSTRUCTION, PROTECT ALL EXISTING SITE FEATURES,
  - 2. 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.

**FOR PERMIT ONLY** 

NOT FOR CONSTRUCTION

- 3. 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.
- 4. 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.
- 5. THOROUGHLY WATER ALL PLANTS IMMEDIATELY AFTER PLANTING. 6. WHERE DISCREPANCIES IN QUANTITIES OCCUR, DRAWINGS
- SUPERCEDE PLANT NOTES AND SCHEDULE. 7. TRANSPLANTING SHALL BE DONE IN ACCORDANCE WITH THE

AMERICAN STANDARD FOR NURSERY STOCK.

- 8. 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.
- 9. MULCH IN TREE AND SHRUB BEDS SHALL BE NATURAL, NATIVE HEMLOCK MULCH FREE OF GROWTH OR GERMINATION INHIBITING INGREDIENTS. SUBMIT SAMPLES FOR APPROVAL.
- 10.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.
- 11. SOIL DEPTHS: a.) SHRUBS AND PERENNIAL BEDS: 18" MIN.; b.) GROUNDCOVER: 6" MIN.; c.) TREES: SEE DETAIL; d.) SOD/SEED: 6"MIN. 12.PROVIDE A SUBSURFACE ROOTBALL ANCHOR BY PLATIPUS EARTH ANCHORS, SIZE FOR CALIPER

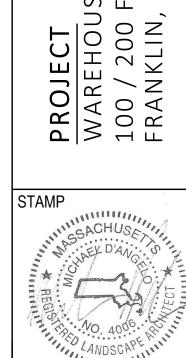
#### **GENERAL IRRIGATION NOTES:**

GRAIN RYE; SEE SPEC SHEET

- 1. 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. 2. IRRIGATION TO BE COORDINATED WITH GENERAL CONTRACTOR TO
- LOCATE THE NECESSARY PVC SLEEVING TO COMPLETE IRRIGATION
- 3. IRRIGATION CONTRACTOR SHALL VERIFY PSI/GPM REQUIREMENTS AT THE SITE BEFORE STARTING CONSTRUCTION.
- 4. TREES SHOULD BE ON A SEPARATE ZONE. 5. ALL TREES, SHRUBS, PERENNIALS, ORNAMENTAL GRASSES, AND
- GROUNDCOVER 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.
- 6. 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.
- 7. INSTALL DRIP TUBING, .6GPH, 12" CENTERS, STAKED EVERY TURN OR EVERY 4'
- 8. 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.
- 9. THE IRRIGATION CONTRACTOR SHALL CONFORM TO ANY LOCAL CODES OR ORDINANCES THAT MAY BE REQUIRED TO COMPLETE THE WORK. 10. WATER SUPPLY AND CONTROLLER: COORDINATE CONNECTION TO
- WATER SUPPLY WITH GENERAL CONTRACTOR. COORDINATE CONTROLLER LOCATION WITH GENERAL CONTRACTOR. 11.MEP CONTRACTOR TO PROVIDE BACK FLOW PREVENTION.
- 12. THE IRRIGATION CONTRACTOR SHALL TEST WATER SOURCE FOR WATER QUALITY INCLUDING MINERALS THAT MAY CAUSE STAINING OF CONCRETE AND PAVING SURFACES.
- 13.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

5.5

S C A L E I N F E E T



NO. 4006.							
NO.	DATE	DESCRIPTION					
	5/11/23	FOR PERMIT					
	7/17/23	RESPONSE TO COMMENTS					
	8/10/23	RESPONSE TO COMMENTS					
	8/25/23	RESPONSE TO COMMENTS					

PLANTING & LIGHTING

L202

plot date: 10/26/2023

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

SEED MIX 2 -

SEEDED LAWN -

(RAIN GARDEN MIX)

3 QP-

SHEET L200

SHEET L202

SEED MIX 2

SEEDED LAWN -

(RAIN GARDEN MIX)

- EXISTING TREES

TO REMAIN

268

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 $\mathcal{R}$ 

- EXISTING TREES

S C A L E I N F E E T

TO REMAIN

— SEED MIX 1 - NATIVE STEEP SLOPES (SPRING & FALL)

SEEDED -

LAWN -

3 TA —

0

3 8/25/23 RESPONSE TO COMMENTS

L203 SCALE:

PLAN

AS NOTED DATE: 5/11/2023 SHEET 13 OF 28

SYMBOL QTY. LATIN NAME **COMMON NAME** NOTES SIZE ACER RUBRUM RED MAPLE 3"-3.5" CAL. B&B, 6' CLEAR BRANCHING SHADBLOW SERVICEBERRY B&B, MULTI-STEM AMELANCHIER CANADENSIS BETULA POPULIFOLIA GRAY BIRCH 3"-3.5" CAL. B&B, MULTI-STEM PINUS STROBUS EASTERN WHITE PINE B&B, 6' CLEAR BRANCHING **BLACK CHERRY** PRUNUS SEROTINA 3"-3.5" CAL. B&B, 6' CLEAR BRANCHING PLATANUS OCCIDENTALIS AMERICAN SYCAMORE B&B. 6' CLEAR BRANCHING 3"-3.5" CAL. TILIA AMERICANA BASSWOOD 3"-3.5" CAL. B&B, 6' CLEAR BRANCHING SHRUBS & ORNAMENTAL GRASSES - TYPF A LETHRA ALNIFOLIA PEPPERBUSH HYDRANGEA QUERCIFOLIA OAK-LEAVED HYDRANGEA 3'-3.5' TALL 36" O.C. B&B 3'-3.5' TALL 36" O.C. B&B COMMON WINTERBERRY LEX VERTICILLATA 3'-3.5' TALL 36" O.C. B&B (ALMIA LATIFOLIA 36" O.C. B&B MOUNTAIN LAUREL 3' TALL HUS AROMATICA FRAGRANT SUMAC 3'-3.5' TALL 36" O.C. B&B ARROWWOOD VIBURNUM DENTATUM 3'-3.5' TALL 36" O.C. B&B SHRUBS & ORNAMENTAL GRASSES - TYPE B OMPTONIA PEREGRINA SWEET-FERN 24" O.C. CONTAINER 24" O.C. CONTAINER RIS VERSICOLOR BLUE FLAG IRIS 2 GAL PEROVSKIA ATRIPLICIFOLIA 2.5'-3' TALL 24" O.C. B&B RUSSIAN SAGE PERENNIALS 18" O.C. CONTAINER CAREX PENSYLVANICA PENNSYLVANIA SEDGE PURPLE CONEFLOWER 18" O.C. CONTAINER CHINACEA PURPUREA SERANIUM DALMATICUM CRANESBILL 18" O.C. CONTAINER SEED MIX APPLY COVER CROP: FALL: ERNST SEEDS 75 LB/ACRE (ERNMX-181-1 & 181-2) GRAIN RYE, SPRING: OAT; 800-873-3321

LICHT COUR	- רווור					
LIGHT SCHE SYMBOL	LABEL	MODEL	MOUNT	ARRANGEMENT	OPTIONS	REP
	_		_	1	_	_
0	BL1	ARCLUCE KLOU180 BOLLARD RWL1-48L-25-3K7-4W-U	CONCRETE FOOTING; KEEP 3" ABOVE GRADE	PEDESTRIAN BOLLARD	COLOR: GRAY	ILLUMINATE 617-947-899 STEVE PRUDHOMM
SL3	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 ■→	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 ■ • ■	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.

#### (ERNMX-180) 800-873-3321

#### NATIVE STEEP SLOPE MIX ERNST MIX ERNST SEEDS O LB/ACRE

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

**GENERAL IRRIGATION NOTES:** 

1. 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. 2. IRRIGATION TO BE COORDINATED WITH GENERAL CONTRACTOR TO LOCATE THE NECESSARY PVC SLEEVING TO COMPLETE IRRIGATION PROGRAM.

THE PYLON SIGN PLANTER AND PLANTERS AT THE BUILDING.

6. 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

WITH OTHER SUB-CONTRACTORS.

9. THE IRRIGATION CONTRACTOR SHALL CONFORM TO ANY LOCAL CODES OR ORDINANCES THAT MAY BE REQUIRED TO COMPLETE THE WORK. 10. WATER SUPPLY AND CONTROLLER: COORDINATE CONNECTION TO WATER SUPPLY WITH GENERAL CONTRACTOR. COORDINATE CONTROLLER LOCATION WITH GENERAL CONTRACTOR.

11.MEP CONTRACTOR TO PROVIDE BACK FLOW PREVENTION.

12. THE IRRIGATION CONTRACTOR SHALL TEST WATER SOURCE FOR WATER QUALITY INCLUDING MINERALS THAT MAY CAUSE STAINING OF CONCRETE AND PAVING SURFACES.

SHEET L203

SHEET L206

LANDSCAPE ARCHITECT'S TRAVEL COSTS SHALL BE PAID FOR BY THE CONTRACTOR. 4. 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. 5. THOROUGHLY WATER ALL PLANTS IMMEDIATELY AFTER PLANTING. 6. WHERE DISCREPANCIES IN QUANTITIES OCCUR, DRAWINGS SUPERCEDE PLANT NOTES AND SCHEDULE. 7. TRANSPLANTING SHALL BE DONE IN ACCORDANCE WITH THE AMERICAN STANDARD FOR NURSERY STOCK. 8. LOAM USED IN PLANT BEDS SHALL BE UNIFORM IN SEE SPEC SHEET COMPOSITION, FREE FROM SUBSOIL, STONES LARGER APPLY COVER CROP OF THAN 1", NOXIOUS SEEDS AND SUITABLE FOR THE GRAIN RYE; SEE SPEC SHEET SUPPORT OF VEGETATIVE GROWTH. THE pH VALUE SHALL BE BETWEEN 5.5 AND 6.5. 9. MULCH IN TREE AND SHRUB BEDS SHALL BE NATURAL, NATIVE HEMLOCK MULCH FREE OF GROWTH OR GERMINATION INHIBITING INGREDIENTS. SUBMIT SAMPLES FOR APPROVAL. 10.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. 11. SOIL DEPTHS: a.) SHRUBS AND PERENNIAL BEDS: 18" MIN.; b.) GROUNDCOVER: 6" MIN.; c.) TREES: SEE DETAIL; d.) SOD/SEED: 6"MIN. 12.PROVIDE A SUBSURFACE ROOTBALL ANCHOR BY PLATIPUS EARTH ANCHORS, SIZE FOR CALIPER

PLANTING:

1. DURING CONSTRUCTION, PROTECT ALL EXISTING SITE

AND NURSERY GROWN IN ACCORDANCE WITH THE

AMERICAN STANDARD FOR NURSERY STOCK UNDER

OF THE PROJECT. SUBSTITUTIONS WILL BE PERMITTED ONLY IF APPROVED BY THE LANDSCAPE ARCHITECT.

3. LANDSCAPE ARCHITECT APPROVAL IS REQUIRED BEFORE

PLANT MATERIAL IS PURCHASED. LANDSCAPE ARCHITECT

THE NURSERY. IF TRAVEL OUTSIDE OF MA IS REQUIRED,

RESERVES THE RIGHT TO SEE ALL MATERIAL IN PERSON AT

2. PLANTS SHALL BE TRUE TO SPECIES AND VARIETY SPECIFIED

CLIMATIC CONDITIONS SIMILAR TO THOSE IN THE LOCALITY

SHEET L201

SHEET L203

BUILDING 1

SHRUBS AND -

FEATURES, STRUCTURES AND UTILITIES.

GRASSES - TYPE A (TYP)  $\Box \backslash /$ 3. IRRIGATION CONTRACTOR SHALL VERIFY PSI/GPM REQUIREMENTS AT THE SITE BEFORE STARTING CONSTRUCTION. SHRUBS AND -4. TREES SHOULD BE ON A SEPARATE ZONE. GRASSES - TYPE B (TYP) 5. ALL TREES, SHRUBS, PERENNIALS, ORNAMENTAL GRASSES, AND GROUNDCOVER SHALL BE DRIP IRRIGATED. CONTRACTOR SHALL BE AWARE THAT THE IRRIGATION SYSTEM SHALL BE ROUTED TO MH: 22'_ PERENNIALS AND 7. INSTALL DRIP TUBING, .6GPH, 12" CENTERS, STAKED EVERY TURN OR EVERY 4' GROUND COVER (TYP) 8. 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 SMOOTH, NATURALLY ROUNDED RIVER BOTTOM STONE 1.5-2" IN SIZE AGAINST BUILDING, 4" THICK; PROVIDE AN ALUMINUM EDGE RESTRAINT AGAINST 13.INSTALLER SHALL INSTALL MOISTURE SENSORS. CONTRACTOR SHALL INSTALL PER MANUFACTURERS'S SPECIFICATIONS AND SHALL BE RESPONSIBLE TO PROGRAM RELATED HYDROZONES TO PLANTING BEDS RESPECTIVE SOIL MOISTURE SENSORS. PROVIDE ONE FOR EACH IRRIGATION ZONE WITH AUTOMATIC SHUT-OFF ONCE MOISTURE REQUIREMENTS ARE MET. SMOOTH, NATURALLY ROUNDED RIVER -BOTTOM STONE 1.5-2" IN SIZE AGAINST BUILDING, 4" THICK; PROVIDE AN 0-ALUMINUM EDGE RESTRAINT AGAINST PLANTING BEDS WL4 MH: 22' WL4 MH: 25' 120

PLANTING & LIGTHING PLAN

plot date: 10/26/2023

PLANT SCH	HEDULE				
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
3P	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
PΗ	16	PLATANUS OCCIDENTALIS	AMERICAN SYCAMORE	3"-3.5" CAL.	B&B, 6' CLEAR BRANCHING
ГА	16	TILIA AMERICANA	BASSWOOD	3"-3.5" CAL.	B&B, 6' CLEAR BRANCHING
SHRUBS &	ORNAMENT	AL 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
()	(x)	ILEX VERTICILLATA	COMMON WINTERBERRY	3'-3.5' TALL	36" O.C. B&B
$\mathcal{L}$	$\overset{\circ}{\smile}$	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 &	ORNAMENT	AL GRASSES - TYPE B	•		•
		COMPTONIA PEREGRINA	SWEET-FERN	2 GAL	24" O.C. CONTAINER
$\circ$		IRIS VERSICOLOR	BLUE FLAG IRIS	2 GAL	24" O.C. CONTAINER
$\cup$	$\circ$	PEROVSKIA ATRIPLICIFOLIA	RUSSIAN SAGE	2.5'-3' TALL	24" O.C. B&B
PERENNIA	LS	•	•		•
~~~	XXXXX	CAREX PENSYLVANICA	PENNSYLVANIA SEDGE	1 GAL	18" O.C. CONTAINER
	$\times\times\times$	ECHINACEA PURPUREA	PURPLE CONEFLOWER	1 GAL	18" O.C. CONTAINER
		GERANIUM DALMATICUM	CRANESBILL	1 GAL	18" O.C. CONTAINER
SEED MIX					
+ + +	+ + + + +	# ERNST SEEDS	ERNST MIX	75 LB/ACRE	APPLY COVER CROP; FALL:
+ + +	+ + + +	800-873-3321	(ERNMX-181-1 & 181-2)		GRAIN RYE, SPRING: OAT;
+ + +	+ + + +	-	NATIVE STEEP SLOPE MIX		SEE SPEC SHEET
1,1/	//////	ERNST SEEDS	ERNST MIX	20 LB/ACRE	APPLY COVER CROP OF
/./,//		800-873-3321	(ERNMX-180)		GRAIN RYE; SEE SPEC SHEET
////			RAIN GARDEN MIX		

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

SYMBOL	LABEL	MODEL	MOUNT	ARRANGEMENT	OPTIONS	REP
0	BL1	ARCLUCE KLOU180 BOLLARD RWL1-48L-25-3K7-4W-U	CONCRETE FOOTING; KEEP 3" ABOVE GRADE	PEDESTRIAN BOLLARD	COLOR: GRAY	
SL3	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 ■•	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
SL4-2 ■ • ■	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	ВАСК ВАСК	COLOR: BLK	STEVE PRUDHOMME
	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:

- 1. 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.

PLANTING:

1. DURING CONSTRUCTION, PROTECT ALL EXISTING SITE

CLIMATIC CONDITIONS SIMILAR TO THOSE IN THE LOCALITY OF THE PROJECT. SUBSTITUTIONS WILL BE PERMITTED ONLY IF APPROVED BY THE LANDSCAPE

3. LANDSCAPE ARCHITECT APPROVAL IS REQUIRED BEFORE

REQUIRED, LANDSCAPE ARCHITECT'S TRAVEL COSTS

5. THOROUGHLY WATER ALL PLANTS IMMEDIATELY AFTER

DRAWINGS SUPERCEDE PLANT NOTES AND SCHEDULE. 7. TRANSPLANTING SHALL BE DONE IN ACCORDANCE WITH THE AMERICAN STANDARD FOR NURSERY STOCK.

AT THE NURSERY. IF TRAVEL OUTSIDE OF MA IS

4. ALL EXPOSED BURLAP, WIRE BASKETS AND OTHER MATERIALS ATTACHED TO PLANTS SHALL BE REMOVED PRIOR TO PLANTING. CARE SHALL BE TAKEN NOT TO

SHALL BE PAID FOR BY THE CONTRACTOR.

6. WHERE DISCREPANCIES IN QUANTITIES OCCUR,

8. 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

9. MULCH IN TREE AND SHRUB BEDS SHALL BE NATURAL, NATIVE HEMLOCK MULCH FREE OF GROWTH OR GERMINATION INHIBITING INGREDIENTS. SUBMIT

10.LOCATIONS FOR PLANTS AND/OR OUTLINE OF AREAS TO BE PLANTED ARE TO BE STAKED OUT AT THE SITE FOR

MIN.; b.) GROUNDCOVER: 6" MIN.; c.) TREES: SEE DETAIL;

APPROVAL BY THE LANDSCAPE ARCHITECT. 11. SOIL DEPTHS: a.) SHRUBS AND PERENNIAL BEDS: 18"

12.PROVIDE A SUBSURFACE ROOTBALL ANCHOR BY PLATIPUS EARTH ANCHORS, SIZE FOR CALIPER

DISTURB THE ROOT BALL OF PLANTS.

BE BETWEEN 5.5 AND 6.5.

SAMPLES FOR APPROVAL.

d.) SOD/SEED: 6"MIN.

PLANTING.

PLANT MATERIAL IS PURCHASED. LANDSCAPE ARCHITECT RESERVES THE RIGHT TO SEE ALL MATERIAL IN PERSON

SPECIFIED AND NURSERY GROWN IN ACCORDANCE WITH THE AMERICAN STANDARD FOR NURSERY STOCK UNDER

2. PLANTS SHALL BE TRUE TO SPECIES AND VARIETY

FEATURES, STRUCTURES AND UTILITIES.

- 2. IRRIGATION TO BE COORDINATED WITH GENERAL CONTRACTOR TO LOCATE THE NECESSARY PVC SLEEVING TO COMPLETE IRRIGATION PROGRAM.
- 3. IRRIGATION CONTRACTOR SHALL VERIFY PSI/GPM REQUIREMENTS AT THE SITE BEFORE STARTING CONSTRUCTION.
- 4. TREES SHOULD BE ON A SEPARATE ZONE.
- 5. ALL TREES, SHRUBS, PERENNIALS, ORNAMENTAL GRASSES, AND GROUNDCOVER 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.
- 6. 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.
- 7. INSTALL DRIP TUBING, .6GPH, 12" CENTERS, STAKED EVERY TURN OR EVERY 4'
- 8. 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.
- 9. THE IRRIGATION CONTRACTOR SHALL CONFORM TO ANY LOCAL CODES OR ORDINANCES THAT MAY BE REQUIRED TO COMPLETE THE WORK.
- 10. WATER SUPPLY AND CONTROLLER: COORDINATE CONNECTION TO WATER SUPPLY WITH GENERAL CONTRACTOR. COORDINATE CONTROLLER LOCATION WITH GENERAL CONTRACTOR. 11.MEP CONTRACTOR TO PROVIDE BACK FLOW PREVENTION.
- 12. THE IRRIGATION CONTRACTOR SHALL TEST WATER SOURCE FOR WATER QUALITY INCLUDING MINERALS THAT MAY CAUSE STAINING OF CONCRETE AND PAVING SURFACES.
- 13.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.

FOR PERMIT ONLY NOT FOR CONSTRUCTION

MICHAEL D'ANGELO ANDSCAPE ARCHITECTURE LI

840 SUMMER STREET SUITE 201A BOSTON, MA 02127 t. 203.592.4788 www.m-d-l-a.com

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STAMP REV. NO. DATE DESCRIPTION 2 8/10/23 RESPONSE TO COMMENTS 3 8/25/23 RESPONSE TO COMMENTS

PLANTING & LIGHTING PLAN

L204

SHEET 14 OF 28

plot date: 10/26/2023

SHEET L204 0 0 SEED MIX 1 - NATIVE STEEP SLOPES (SPRING & FALL) SHRUBS AND -SHEE GRASSES - TYPE A (TYP) SEED MIX 1 - NATIVE STEEP SLOPES (SPRING & FALL) PLANTING & LIGTHING PLAN

SCALE: 1" = 20'-0" S C A L E I N F E E T

ONLY IF APPROVED BY THE LANDSCAPE ARCHITECT. 3. 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.

4. 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.

5. THOROUGHLY WATER ALL PLANTS IMMEDIATELY AFTER PLANTING. 6. WHERE DISCREPANCIES IN QUANTITIES OCCUR, DRAWINGS SUPERCEDE

PLANT NOTES AND SCHEDULE 7. TRANSPLANTING SHALL BE DONE IN ACCORDANCE WITH THE AMERICAN STANDARD FOR NURSERY STOCK.

8. 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. 9. MULCH IN TREE AND SHRUB BEDS SHALL BE NATURAL, NATIVE HEMLOCK MULCH FREE OF GROWTH OR GERMINATION INHIBITING INGREDIENTS. SUBMIT SAMPLES FOR APPROVAL

10.LOCATIONS FOR PLANTS AND/OR OUTLINE OF AREAS TO BE PLANTED ARE TO BE STAKED OUT AT THE SITE FOR APPROVAL BY THE LANDSCAPE

11. SOIL DEPTHS: a.) SHRUBS AND PERENNIAL BEDS: 18" MIN.; b.)

GROUNDCOVER: 6" MIN.; c.) TREES: SEE DETAIL; d.) SOD/SEED: 6"MIN. 12.PROVIDE A SUBSURFACE ROOTBALL ANCHOR BY PLATIPUS EARTH ANCHORS, SIZE FOR CALIPER

1. 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

LATIN NAME

ACER RUBRUM

PINUS STROBUS

AMELANCHIER CANADENSIS

BETULA POPULIFOLIA

PRUNUS SEROTINA

TILIA AMERICANA

ILEX GLABRA

SHRUBS & ORNAMENTAL GRASSES - TYPE B

PERENNIALS

ALMIA LATIFOLIA

RHUS AROMATICA

VIBURNUM DENTATUM

PEROVSKIA ATRIPLICIFOLIA

CAREX PENSYLVANICA

ERNST SEEDS

800-873-3321

CHINACEA PURPUREA

SERANIUM DALMATICUM

PLATANUS OCCIDENTALIS

HYDRANGEA OUERCIEOLIA

RED MAPLE

GRAY BIRCH

BLACK CHERRY

BASSWOOD

FASTERN WHITE PINE

AMERICAN SYCAMORE

MOUNTAIN LAUREL

FRAGRANT SUMAC

ARROWWOOD

BLUE FLAG IRIS

RUSSIAN SAGE

ERNST MIX

PENNSYLVANIA SEDGE

(ERNMX-181-1 & 181-2)

NATIVE STEEP SLOPE MIX

SHADBLOW SERVICEBERRY 8-10' HT

OAK-LEAVED HYDRANGEA 3'-3.5' TALL

B&B, 6' CLEAR BRANCHING

B&B, 6' CLEAR BRANCHING

B&B, 6' CLEAR BRANCHING

B&B, 6' CLEAR BRANCHING

B&B, MULTI-STEM

B&B, MULTI-STEM

36" O.C. B&B

36" O.C. B&B

24" O.C. B&B

4" O.C. CONTAINER

18" O.C. CONTAINER

18" O.C. CONTAINER

SEE SPEC SHEET

APPLY COVER CROP; FALL:

GRAIN RYE, SPRING: OAT;

APPLY COVER CROP OF

3"-3.5" CAL.

3"-3.5" CAL.

3"-3.5" CAL.

3"-3.5" CAL.

3' TALL

3'-3.5' TALL

3'-3.5' TALL

2.5'-3' TALL

75 LB/ACRE

LATERAL LINES, ZONES, RAIN AND SOIL SENSORS, AND CUT SHEETS FOR CONTROLLER SYSTEM AND COMPONENTS. INCLUDE ANY NECESSARY SLEEVING ON A DIAGRAM. 2. IRRIGATION TO BE COORDINATED WITH GENERAL CONTRACTOR TO LOCATE THE

NECESSARY PVC SLEEVING TO COMPLETE IRRIGATION PROGRAM. 3. IRRIGATION CONTRACTOR SHALL VERIFY PSI/GPM REQUIREMENTS AT THE SITE BEFORE

STARTING CONSTRUCTION. 4. TREES SHOULD BE ON A SEPARATE ZONE.

5. ALL TREES, SHRUBS, PERENNIALS, ORNAMENTAL GRASSES, AND GROUNDCOVER 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.

6. 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'

8. 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. 9. THE IRRIGATION CONTRACTOR SHALL CONFORM TO ANY LOCAL CODES OR ORDINANCES

THAT MAY BE REQUIRED TO COMPLETE THE WORK. 10. WATER SUPPLY AND CONTROLLER: COORDINATE CONNECTION TO WATER SUPPLY WITH GENERAL CONTRACTOR. COORDINATE CONTROLLER LOCATION WITH GENERAL

CONTRACTOR. 11.MEP CONTRACTOR TO PROVIDE BACK FLOW PREVENTION.

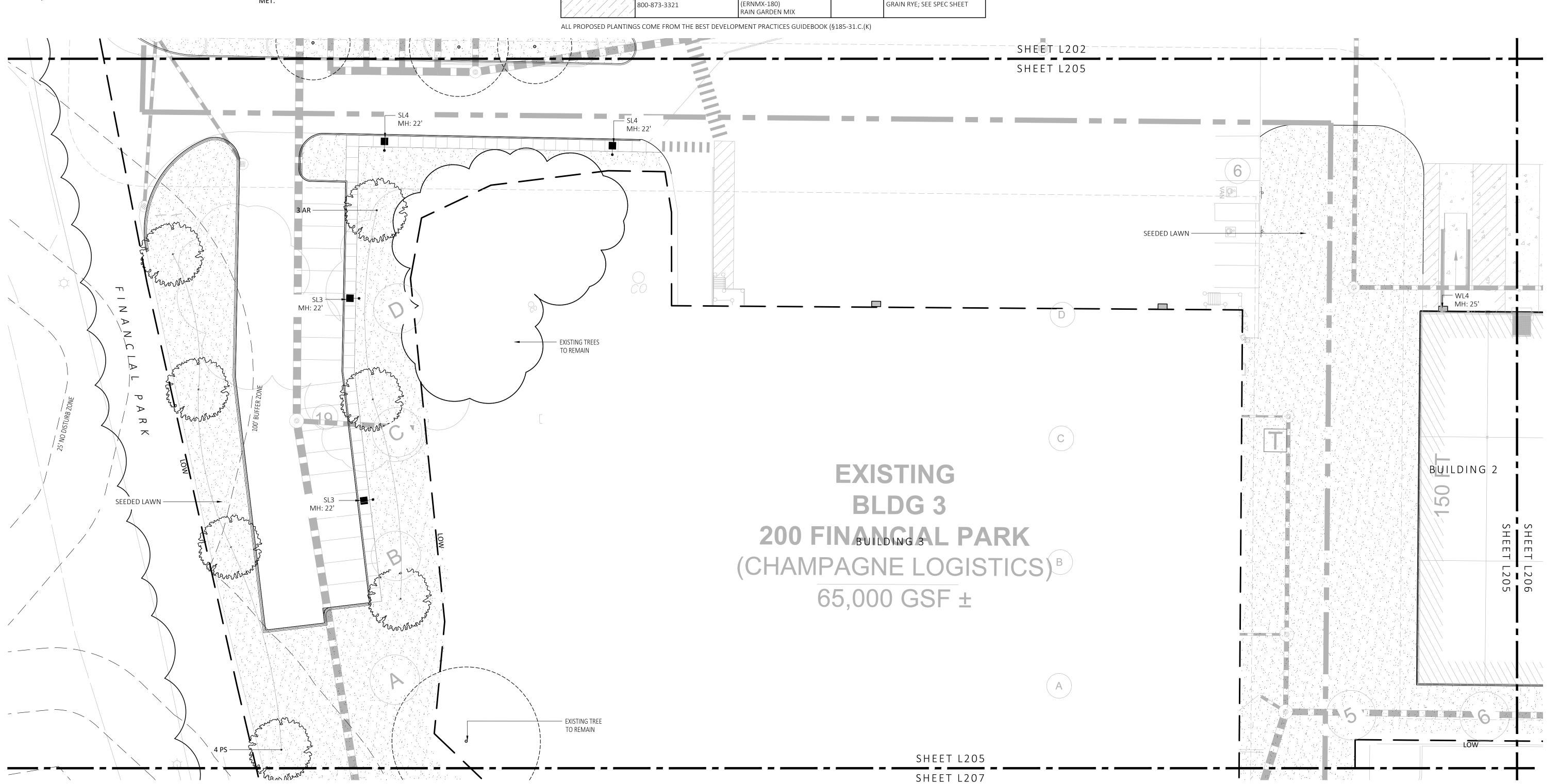
12. THE IRRIGATION CONTRACTOR SHALL TEST WATER SOURCE FOR WATER QUALITY INCLUDING MINERALS THAT MAY CAUSE STAINING OF CONCRETE AND PAVING

13.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

FOR PERMIT ONLY NOT FOR CONSTRUCTION **COMMON NAME**

SYMBOL	LABEL	MODEL	MOUNT	ARRANGEMENT	OPTIONS	REP
0	BL1	ARCLUCE KLOU180 BOLLARD RWL1-48L-25-3K7-4W-U	CONCRETE FOOTING; KEEP 3" ABOVE GRADE	PEDESTRIAN BOLLARD	COLOR: GRAY	
SL3	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	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 617-947-899
SL4-2	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	ВАСК ВАСК	COLOR: BLK	STEVE PRUDHOMM
	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]

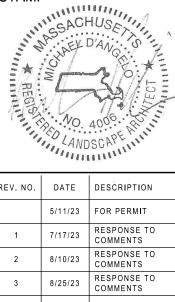
SUBMIT CUT SHEETS FOR APPROVAL; SEE PHOTOMETRIC PLAN PROVIDED WITH THIS DRAWING SET FOR MORE INFORMATION.



MICHAEL D'ANGELO

840 SUMMER STREET SUITE 201A BOSTON, MA 02127 t. 203.592.4788 www.m-d-l-a.com

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PLANTING & LIGHTING PLAN

L205

SHEET 15 OF 28

SEED MIX 1 - NATIVE STEEP

SLOPES (SPRING & FALL)

0

PROJE WARE 100 / FRANK

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

S C A L E I N F E E T

PLANTING: 1. DURING CONSTRUCTION, PROTECT ALL EXISTING SITE FEATURES, STRUCTURES AND UTILITIES. 2. 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. SHEET L203 3. LANDSCAPE ARCHITECT APPROVAL IS REQUIRED BEFORE PLANT MATERIAL IS PURCHASED. LANDSCAPE ARCHITECT RESERVES THE RIGHT TO SHEET L206 SEE ALL MATERIAL IN PERSON AT THE NURSERY. IF TRAVEL OUTSIDE OF MA IS REQUIRED, LANDSCAPE ARCHITECT'S TRAVEL COSTS SHALL PERENNIALS AND BE PAID FOR BY THE CONTRACTOR. GROUND COVER (TYP) 4. ALL EXPOSED BURLAP, WIRE BASKETS AND 13 OTHER MATERIALS ATTACHED TO PLANTS SHALL MH: 22' BE REMOVED PRIOR TO PLANTING. CARE SHALL SHRUBS AND -

GRASSES - TYPE A (TYP)

symbol | aty. LATIN NAME COMMON NAME SIZE NOTES ACFR RUBRUM RED MAPLE B&B, 6' CLEAR BRANCHING SHADBLOW SERVICEBERRY AMELANCHIER CANADENSIS 3&B, MULTI-STEM BETULA POPULIFOLIA GRAY BIRCH &B. MULTI-STEM 3"-3.5" CAL. EASTERN WHITE PINE PINUS STROBUS B&B, 6' CLEAR BRANCHING 3"-3.5" CAL. PRUNUS SEROTINA BLACK CHERRY 3"-3.5" CAL. B&B, 6' CLEAR BRANCHING PLATANUS OCCIDENTALIS AMERICAN SYCAMORE 3"-3.5" CAL. B&B. 6' CLEAR BRANCHING BASSWOOD TILIA AMERICANA B&B, 6' CLEAR BRANCHING HRUBS & ORNAMENTAL GRASSES - TYPE A LETHRA ALNIFOLIA **PEPPERBUSH** 36" O.C. B&B YDRANGEA QUERCIFOLIA OAK-LEAVED HYDRANGEA 3'-3.5' TALL 36" O.C. B&B LEX GLABRA INKBERRY 3'-3.5' TALL 36" O.C. B&B EX VERTICILLATA COMMON WINTERBERRY 3'-3.5' TALL 36" O.C. B&B ALMIA LATIFOLIA MOUNTAIN LAUREI 36" O.C. B&B HUS AROMATICA FRAGRANT SUMAC 36" O.C. B&B VIBURNUM DENTATUN ARROWWOOD 3'-3.5' TALL 36" O.C. B&B HRUBS & ORNAMENTAL GRASSES - TYPE B COMPTONIA PEREGRINA SWEET-FERN 24" O.C. CONTAINER BLUE FLAG IRIS 24" O.C. CONTAINER RIS VERSICOLOR PEROVSKIA ATRIPLICIFOLIA RUSSIAN SAGE 2.5'-3' TALL 24" O.C. B&B ERENNIALS PENNSYLVANIA SEDGE 18" O.C. CONTAINER CAREX PENSYLVANICA 18" O.C. CONTAINER CHINACEA PURPUREA PURPLE CONEFLOWER GERANIUM DALMATICUM CRANESBILL 1 GAL 18" O.C. CONTAINER SEED MIX ERNST MIX 75 LB/ACRE ERNST SEEDS APPLY COVER CROP; FALL: (ERNMX-181-1 & 181-2) GRAIN RYE, SPRING: OAT; 800-873-3321 NATIVE STEEP SLOPE MIX SEE SPEC SHEET ERNST MIX 20 LB/ACRE APPLY COVER CROP OF ERNST SEEDS (ERNMX-180) GRAIN RYE; SEE SPEC SHEET 800-873-3321 RAIN GARDEN MIX

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

SYMBOL	LABEL	MODEL	MOUNT	ARRANGEMENT	OPTIONS	REP
0	BL1	ARCLUCE KLOU180 BOLLARD RWL1-48L-25-3K7-4W-U	CONCRETE FOOTING; KEEP 3" ABOVE GRADE	PEDESTRIAN BOLLARD	COLOR: GRAY	
SL3	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 ■-	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
SL4-2 ■	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	ВАСК ВАСК	COLOR: BLK	STEVE PRUDHOMME
	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		

LIGHT COUEDING

GENERAL IRRIGATION NOTES:

PLANT SCHEDULE

- 1. 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.
- 2. IRRIGATION TO BE COORDINATED WITH GENERAL CONTRACTOR TO LOCATE THE NECESSARY PVC SLEEVING TO COMPLETE IRRIGATION PROGRAM.
- 3. IRRIGATION CONTRACTOR SHALL VERIFY PSI/GPM REQUIREMENTS AT THE SITE BEFORE STARTING CONSTRUCTION.
 4. TREES SHOULD BE ON A SEPARATE ZONE.
- 5. ALL TREES, SHRUBS, PERENNIALS, ORNAMENTAL GRASSES, AND GROUNDCOVER 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.
- 6. 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.
- 7. INSTALL DRIP TUBING, .6GPH, 12" CENTERS, STAKED EVERY TURN OR EVERY 4'
 8. 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.

 9. THE IRRIGATION CONTRACTOR SHALL CONFORM TO ANY LOCAL CODES OR ORDINANCES THAT MAY BE REQUIRED TO COMPLETE THE WORK.
- 10. WATER SUPPLY AND CONTROLLER: COORDINATE CONNECTION TO WATER SUPPLY WITH GENERAL CONTRACTOR. COORDINATE CONTROLLER LOCATION WITH GENERAL CONTRACTOR. 11.MEP CONTRACTOR TO PROVIDE BACK FLOW PREVENTION.
- 11.MEP CONTRACTOR TO PROVIDE BACK FLOW PREVENTION.

 12.THE IRRIGATION CONTRACTOR SHALL TEST WATER SOURCE FOR WATER QUALITY INCLUDING MINERALS THAT MAY CAUSE STAINING OF CONCRETE AND PAVING SURFACES.
- 13.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.

351 FT

SHEET L206

BE TAKEN NOT TO DISTURB THE ROOT BALL OF

5. THOROUGHLY WATER ALL PLANTS IMMEDIATELY

6. WHERE DISCREPANCIES IN QUANTITIES OCCUR,

DRAWINGS SUPERCEDE PLANT NOTES AND

ACCORDANCE WITH THE AMERICAN STANDARD

IN COMPOSITION, FREE FROM SUBSOIL, STONES

THE pH VALUE SHALL BE BETWEEN 5.5 AND 6.5.

INGREDIENTS. SUBMIT SAMPLES FOR APPROVAL.

10.LOCATIONS FOR PLANTS AND/OR OUTLINE OF
AREAS TO BE PLANTED ARE TO BE STAKED OUT
AT THE SITE FOR APPROVAL BY THE LANDSCAPE

11. SOIL DEPTHS: a.) SHRUBS AND PERENNIAL BEDS:

12.PROVIDE A SUBSURFACE ROOTBALL ANCHOR BY

PLATIPUS EARTH ANCHORS, SIZE FOR CALIPER

SEE DETAIL; d.) SOD/SEED: 6"MIN.

18" MIN.; b.) GROUNDCOVER: 6" MIN.; c.) TREES:

LARGER THAN 1". NOXIOUS SEEDS AND SUITABLE

8. LOAM USED IN PLANT BEDS SHALL BE UNIFORM

FOR THE SUPPORT OF VEGETATIVE GROWTH.

9. MULCH IN TREE AND SHRUB BEDS SHALL BE NATURAL, NATIVE HEMLOCK MULCH FREE OF

GROWTH OR GERMINATION INHIBITING

7. TRANSPLANTING SHALL BE DONE IN

AFTER PLANTING.

FOR NURSERY STOCK.

ARCHITECT.

SHRUBS AND -= BL1 $\,-$ 0-GRASSES - TYPE B (TYP) SMOOTH, NATURALLY ROUNDED RIVER BOTTOM STONE 1.5-2" IN SIZE AGAINST BUILDING, 4" THICK: PROVIDE AN ALUMINUM EDGE RESTRAINT AGAINST PLANTING BEDS SL4 MH: 22' TRAILER STORAGE _ BL1 MH: 25' 2 TA -OFFICE ___ SL4-2 BUILDING 2 MH: 22' WL1 MH: 12' SMOOTH, NATURALLY ROUNDED RIVER BOTTOM STONE 1.5-2" IN SIZE AGAINST BUILDING, 4" THICK; PROVIDE AN ALUMINUM EDGE RESTRAINT AGAINST PLANTING BEDS

SEEDED LAWN -

PLANTING & LIGTHING PLAN

SCALE: 1" = 20'-0"

SHEET 16 OF 28

plot date: 10/26/2023

SUBSTITUTIONS WILL BE PERMITTED ONLY IF APPROVED BY THE LANDSCAPE ARCHITECT. 3. 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. 4. 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.
- 5. THOROUGHLY WATER ALL PLANTS IMMEDIATELY AFTER PLANTING.
- 6. WHERE DISCREPANCIES IN QUANTITIES OCCUR, DRAWINGS SUPERCEDE PLANT NOTES AND SCHEDULE.
- 7. TRANSPLANTING SHALL BE DONE IN ACCORDANCE WITH THE AMERICAN STANDARD FOR NURSERY STOCK.
- 8. 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.
- 9. MULCH IN TREE AND SHRUB BEDS SHALL BE NATURAL, NATIVE HEMLOCK MULCH FREE OF GROWTH OR GERMINATION INHIBITING INGREDIENTS. SUBMIT SAMPLES FOR APPROVAL.
- 10.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. 11. SOIL DEPTHS: a.) SHRUBS AND PERENNIAL BEDS: 18" MIN.; b.)
- GROUNDCOVER: 6" MIN.; c.) TREES: SEE DETAIL; d.) SOD/SEED:
- 12.PROVIDE A SUBSURFACE ROOTBALL ANCHOR BY PLATIPUS EARTH

GENERAL IRRIGATION NOTES:

- 1. 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.
- 2. IRRIGATION TO BE COORDINATED WITH GENERAL CONTRACTOR TO LOCATE THE NECESSARY PVC SLEEVING TO COMPLETE IRRIGATION PROGRAM.
- 3. IRRIGATION CONTRACTOR SHALL VERIFY PSI/GPM REQUIREMENTS AT THE SITE BEFORE STARTING CONSTRUCTION. 4. TREES SHOULD BE ON A SEPARATE ZONE.
- 5. ALL TREES, SHRUBS, PERENNIALS, ORNAMENTAL GRASSES, AND GROUNDCOVER 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.
- 6. 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.
- 7. INSTALL DRIP TUBING, .6GPH, 12" CENTERS, STAKED EVERY TURN OR EVERY 4' 8. 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. 9. THE IRRIGATION CONTRACTOR SHALL CONFORM TO ANY LOCAL CODES OR
- ORDINANCES THAT MAY BE REQUIRED TO COMPLETE THE WORK. 10. WATER SUPPLY AND CONTROLLER: COORDINATE CONNECTION TO WATER SUPPLY WITH GENERAL CONTRACTOR. COORDINATE CONTROLLER LOCATION
- WITH GENERAL CONTRACTOR. 11.MEP CONTRACTOR TO PROVIDE BACK FLOW PREVENTION. 12. THE IRRIGATION CONTRACTOR SHALL TEST WATER SOURCE FOR WATER QUALITY INCLUDING MINERALS THAT MAY CAUSE STAINING OF CONCRETE AND
- PAVING SURFACES. 13.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.

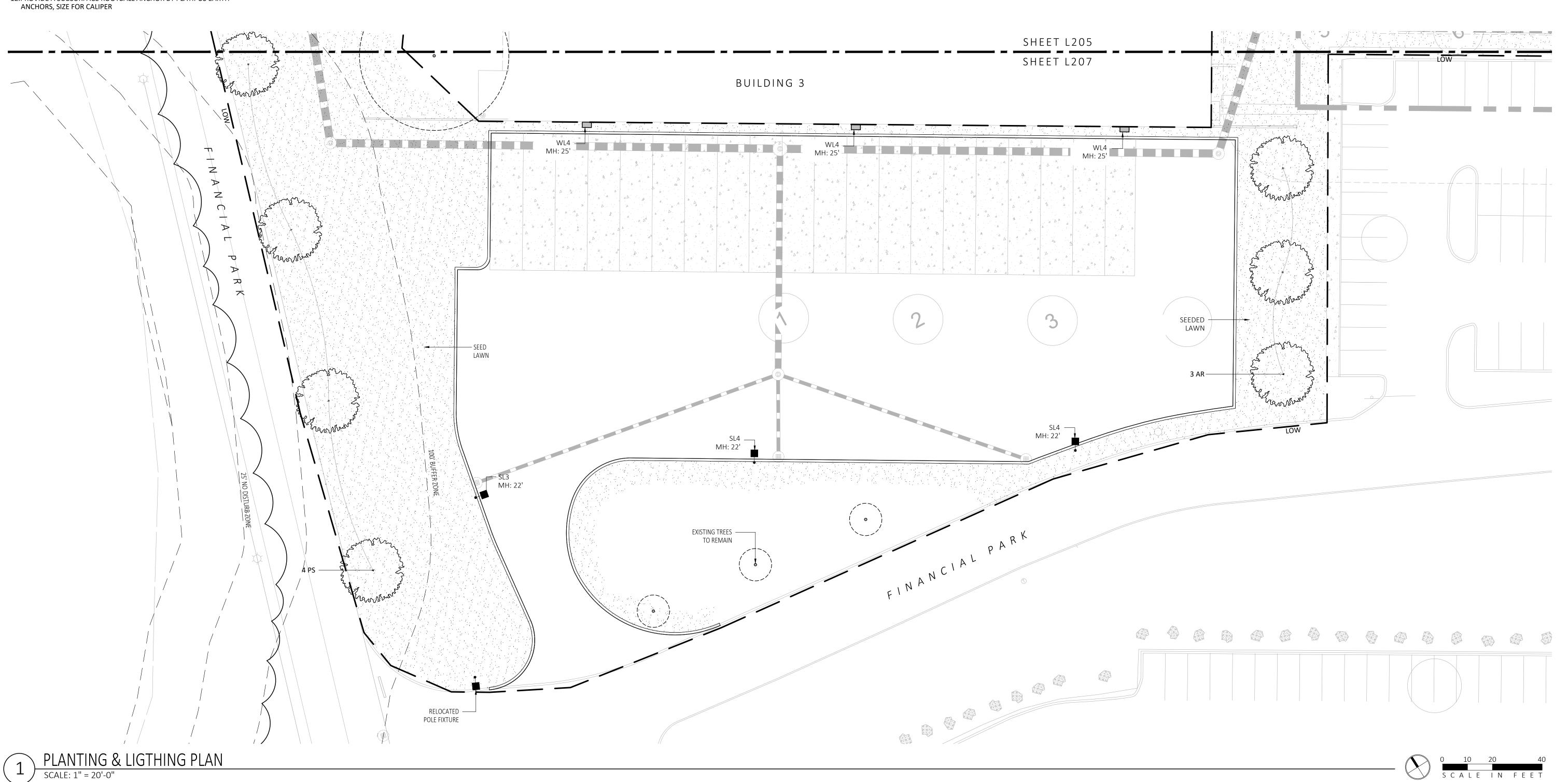
PLANT SCI	HEDULE				
SYMBOL	QTY.	LATIN NAME	COMMON NAME	SIZE	NOTES
TREES					
AR	24	ACER RUBRUM	RED MAPLE	3"-3.5" CAL.	B&B, 6' CLEAR BRANCHING
AC	5	AMELANCHIER CANADENSIS	SHADBLOW SERVICEBERRY	8-10' HT	B&B, MULTI-STEM
BP	10	BETULA POPULIFOLIA	GRAY BIRCH	3"-3.5" CAL.	B&B, MULTI-STEM
PS	10	PINUS STROBUS	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 &	ORNAMENT	AL 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
$\overset{\circ}{\smile}$	$\overset{\circ}{\smile}\overset{\circ}{\smile}$	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 &	ORNAMENT	AL GRASSES - TYPE B	•	•	•
	_	COMPTONIA PEREGRINA	SWEET-FERN	2 GAL	24" O.C. CONTAINER
\bigcirc	$\mathcal{S}_{\mathcal{O}}$	IRIS VERSICOLOR	BLUE FLAG IRIS	2 GAL	24" O.C. CONTAINER
\circ	\circ	PEROVSKIA ATRIPLICIFOLIA	RUSSIAN SAGE	2.5'-3' TALL	24" O.C. B&B
PERENNIA	LS		•		•
~~~		CAREX PENSYLVANICA	PENNSYLVANIA SEDGE	1 GAL	18" O.C. CONTAINER
	$\times$	ECHINACEA PURPUREA	PURPLE CONEFLOWER	1 GAL	18" O.C. CONTAINER
		GERANIUM DALMATICUM	CRANESBILL	1 GAL	18" O.C. CONTAINER
SEED MIX				•	•
+ + +	+ + + +	# ERNST SEEDS	ERNST MIX	75 LB/ACRE	APPLY COVER CROP; FALL:
+ + +	+ + + + +	800-873-3321	(ERNMX-181-1 & 181-2)		GRAIN RYE, SPRING: OAT;
+ + +	<u> </u>		NATIVE STEEP SLOPE MIX		SEE SPEC SHEET
7////	///////	ERNST SEEDS	ERNST MIX	20 LB/ACRE	APPLY COVER CROP OF
////	/////	800-873-3321	(ERNMX-180)		GRAIN RYE; SEE SPEC SHEET
.////	/////	1	RAIN GARDEN MIX		

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
0	BL1	ARCLUCE KLOU180 BOLLARD RWL1-48L-25-3K7-4W-U	CONCRETE FOOTING; KEEP 3" ABOVE GRADE	PEDESTRIAN BOLLARD	COLOR: GRAY	
SL3	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 ■•	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 617-947-899
SL4-2	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	ВАСК ВАСК	COLOR: BLK	STEVE PRUDHOMM
	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



MICHAEL D'ANGELO NDSCAPE ARCHITECTURE L

> 840 SUMMER STREET SUITE 201A BOSTON, MA 02127 t. 203.592.4788 www.m-d-l-a.com

> > 0 S الم |  $\forall \vdash \forall$

 $\exists \mid \times \land \vdash$ TRIAL PARK

PROJECT WAREHOUSE / I 100 / 200 FINAN FRANKLIN, MA

1 7/17/23 RESPONSE TO COMMENTS
2 8/10/23 RESPONSE TO COMMENTS
3 8/25/23 RESPONSE TO COMMENTS

PLANTING & LIGHTING PLAN

L207

SHEET 17 OF 28

www.m-d-l-a.com

2 8/10/23 RESPONSE TO COMMENTS

3 8/25/23 RESPONSE TO COMMENTS

DETAILS

L300 AS NOTED DATE:

SHEET 18 OF 28

plot date: 10/26/2023

**Ernst Conservation Seeds Ernst Conservation Seeds** 8884 Mercer Pike 8884 Mercer Pike Meadville, PA 16335 Meadville, PA 16335 (800) 873-3321 Fax (814) 336-5191 (800) 873-3321 Fax (814) 336-5191 www.ernstseed.com www.ernstseed.com Date: August 28, 2018 Native Steep Slope Mix w/Grain Oats - ERNMX-181-1 **Botanical Name Botanical Name** 40.00 % Secale cereale, Variety Not Stated 40.00 % Avena sativa, Variety Not Stated Oats, Variety Not Stated 0.22 20.40 % Sorghastrum nutans, PA Ecotype 20.40 % Sorghastrum nutans, NY4 Ecotype Indiangrass, NY4 Ecotype 8.10 % Andropogon gerardii, 'Niagara' Big Bluestem, 'Niagara' 8.10 % Andropogon gerardii, 'Niagara' Big Bluestem, 'Niagara' 7.50 % Elymus virginicus, PA Ecotype 7.50 % Elymus virginicus, PA Ecotype Virginia Wildrye, PA Ecotype 5.20 % Elymus canadensis 5.20 % Elymus canadensis Canada Wildrye 4.50 % Schizachyrium scoparium, 'Camper' 4.50 % Schizachyrium scoparium, Fort Indiantown Gap-PA Ecotype Little Bluestern, Fort Indiantown Gap-PA Ecotype 12.00 3.70 % Tridens flavus 3.70 % Tridens flavus, Fort Indiantown Gap-PA Ecotype Purpletop, Fort Indiantown Gap-PA Ecotype 3.00 % Agrostis perennans, Albany Pine Bush-NY Ecotype 3.00 % Agrostis perennans, Albany Pine Bush-NY Ecotype Autumn Bentgrass, Albany Pine Bush-NY Ecotype 2,30 % Panicum virgatum, 'Shawnee' Switchgrass, 'Shawnee' 2.30 % Panicum virgatum, 'Shawnee' 1.10 % Chamaecrista fasciculata, PA Ecotype Partridge Pea, PA Ecotype 36.00

20.00

1.10 % Chamaecrista fasciculata, PA Ecotype 1.00 % Echinacea purpurea Purple Coneflower 0.80 % Gaillardia aristata Perennial Gaillardia (Blanketflower 0.80 % Rudbeckia hirta Blackeyed Susan 0.70 % Heliopsis helianthoides, PA Ecotype Oxeye Sunflower, PA Ecotype 0.40 % Aster novae-angliae, PA Ecotype New England Aster, PA Ecotype 0.20 % Asclepias syriaca, PA Ecotype Common Milkweed, PA Ecotype 0.20 % Liatris spicata Marsh (Dense) Blazing Star (Spiked Gayfeather) 210.00 0.10 % Penstemon digitalis Tall White Beardtongue 160.00 100.00 % \$10.45

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.

Seeding Rate: 75 lb per acre

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.

EVERGREEN TREE PLANTING

Native Steep Slope Mix w/Grain Rye - ERNMX-181-2 Price/lb Grain Rye, Variety Not Stated 0.21 10.60 Indiangrass, PA Ecotype 13.06 Virginia Wildrye, PA Ecotype Little Bluestem, 'Camper' 18.56 Autumn Bentgrass, Albany Pine Bush-NY Ecotype 14.00 Partridge Pea, PA Ecotype 1.00 % Echinacea purpurea Purple Coneflower Perennial Gaillardia (Blanketflower) 0.80 % Gaillardia aristata 0.80 % Rudbeckia hirta 0.70 % Heliopsis helianthoides, PA Ecotype Oxeye Sunflower, PA Ecotype 0.40 % Aster lateriflorus Calico Aster 320.00 Marsh (Dense) Blazing Star (Spiked Gayfeather) 0.30 % Liatris spicata 210.00 0.20 % Asclepias syriaca, PA Ecotype Common Milkweed, PA Ecotype Mix Price/lb Bulk: 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 wthout 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 <u>www.ernstseed.com</u> for current pricing when placing orders.

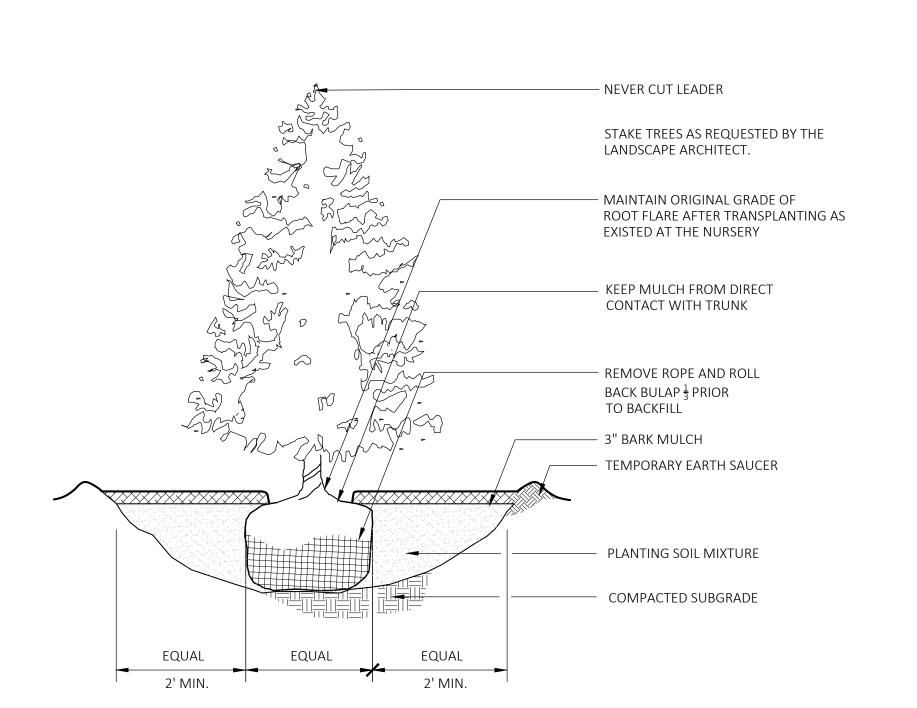
**Ernst Conservation Seeds** 8884 Mercer Pike Meadville, PA 16335 (800) 873-3321 Fax (814) 336-5191 www.ernstseed.com Date: August 28, 2018 Rain Garden Mix - ERNMX-180 **Botanical Name** Price/lb 31.50 % Schizachyrium scoparium, Albany Pine Bush-NY Ecotype Little Bluestem, Albany Pine Bush-NY Ecotype 12.02 20.00 % Elymus virginicus, PA Ecotype Virginia Wildrye, PA Ecotype 10.00 % Carex vulpinoidea, PA Ecotype Fox Sedge, PA Ecotype 10.00 % Panicum rigidulum, Coastal Plain NC Ecotype Redtop Panicgrass, Coastal Plain NC Ecotype 48.00 5.00 % Echinacea purpurea Purple Coneflower 36.00 24.00 20.00 3.00 % Coreopsis lanceolata Lanceleaf Coreopsis 3.00 % Rudbeckia hirta Blackeyed Susan 72.00 2.00 % Carex scoparia, PA Ecotype Blunt Broom Sedge, PA Ecotype 2.00 % Chamaecrista fasciculata, PA Ecotype Partridge Pea, PA Ecotype 2.00 % Eupatorium coelestinum, VA Ecotype Mistflower, VA Ecotype 2.00 % Heliopsis helianthoides, PA Ecotype 42.00 Oxeye Sunflower, PA Ecotype 2.00 % Penstemon digitalis, PA Ecotype Tall White Beardtongue, PA Ecotype 160.00 1.00 % Asclepias incarnata, PA Ecotype 160.00 Swamp Milkweed, PA Ecotype 40.00 1.00 % Juncus effusus 1.00 % Juncus tenuis, PA Ecotype Path Rush, PA Ecotype Marsh (Dense) Blazing Star (Spiked Gayfeather) 1.00 % Liatris spicata 0.80 % Aster novae-angliae, PA Ecotype New England Aster, PA Ecotype 360.00 0.70 % Aster laevis, NY Ecotype Smooth Blue Aster, NY Ecotype 320.00 0.50 % Rudbeckia fulgida var. fulgida, Northern VA Ecotype Orange Coneflower, Northern VA Ecotype 300.00 0.50 % Senna hebecarpa, VA & WV Ecotype Wild Senna, VA & WV Ecotype 24.00 160.00 0.40 % Monarda fistulosa, Fort Indiantown Gap-PA Ecotype Wild Bergamot, Fort Indiantown Gap-PA Ecotype 0.30 % Pycnanthemum tenuifolium Narrowleaf Mountainmint 0.30 % Solidago juncea, PA Ecotype Early Goldenrod, PA Ecotype 280.00 Mix Price/Ib 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.

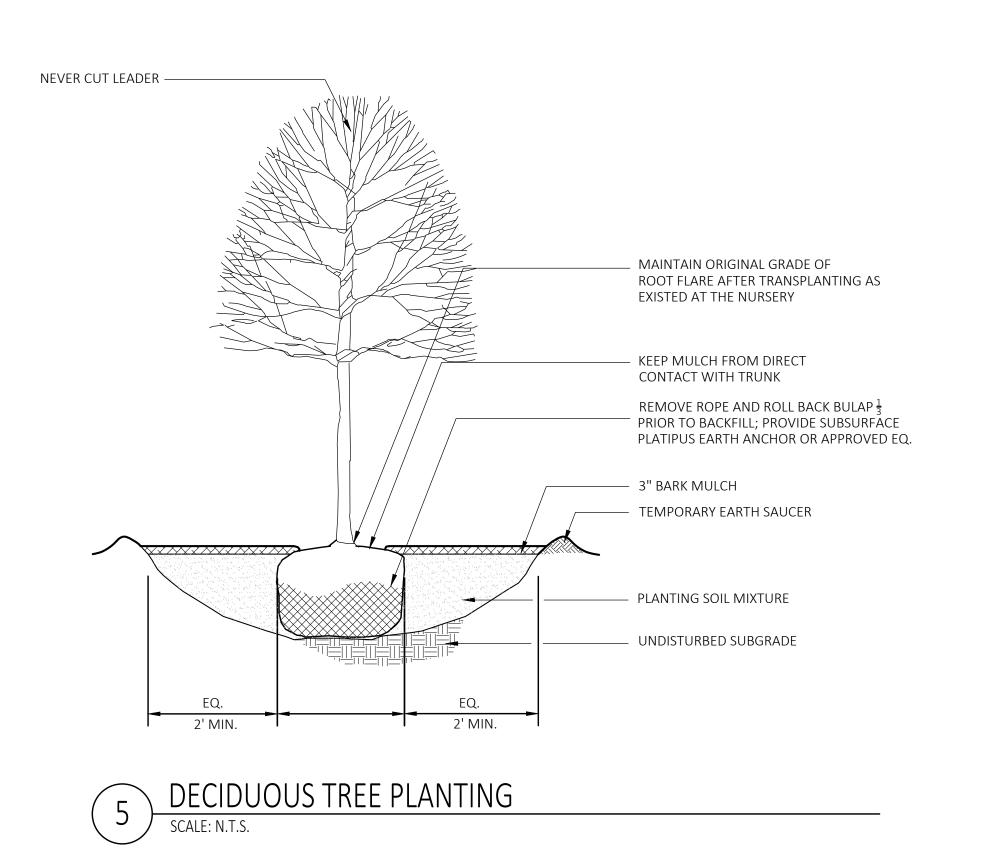
> Price quotes guaranteed for 30 days. All prices are FOB Meadville, PA. Please check our web site at www.ernstseed.com for current pricing when placing orders.

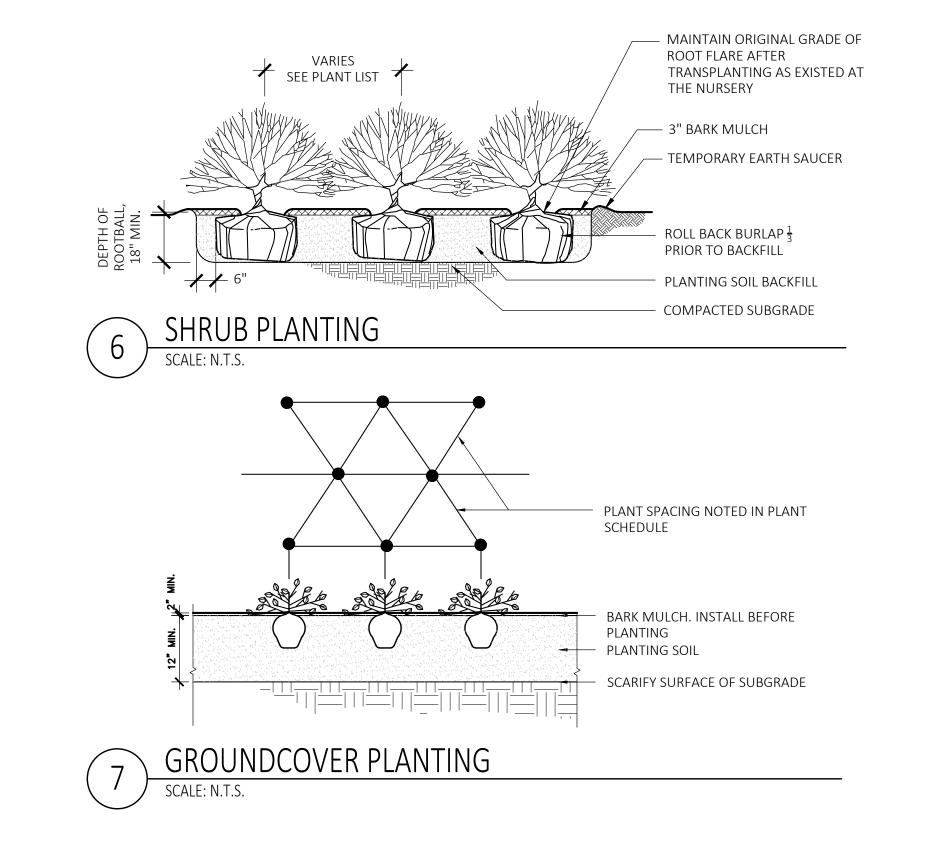
SEED MIX 1 - NATIVE STEEP SLOPES (SPRING)

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

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







SUITE 201A

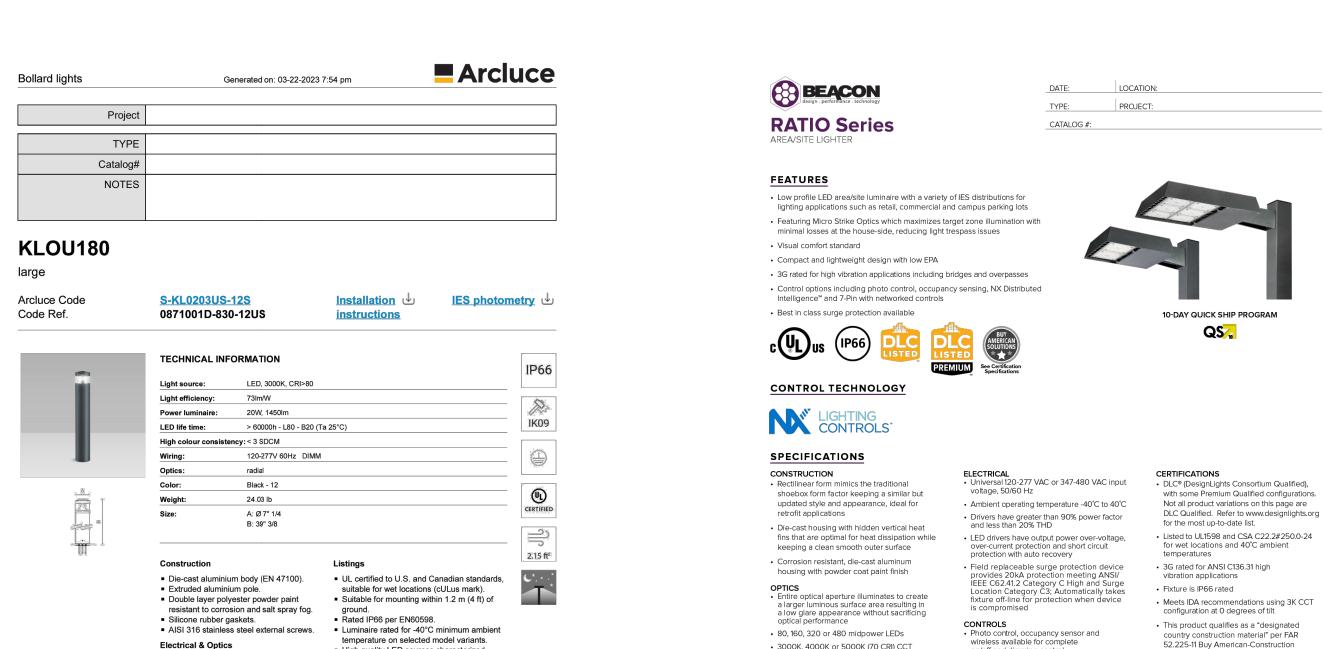
BOSTON, MA 02127

t. 203.592.4788

www.m-d-l-a.com

L301 SCALE: AS NOTED

5/11/2023 SHEET 19 OF 28



• 80, 160, 320 or 480 midpower LEDs

Zero uplight at 0 degrees of tilt

Field rotatable optics

apply for 7-pin options)

Current @

• 3000K, 4000K or 5000K (70 CRI) CCT

Standard square arm mount, compatible with B3 drill pattern

of installation during retrofit applications Available as an option or accessory for square and round poles.

Knuckle arm fitter option available for 2-3/8' OD tenon. Max tilt of 60 degrees with 4

on/off and dimming control

the 6" standard

currentlighting.com/beacon

SL3, SL4, SL4-2 FIXTURE

7-pin ANSI C136.41-2013 photocontrol

(control accessories sold separately)

· 0-10 V Dimming Drivers are standard and

dimming leads are extended out of the

NX Distributed Intelligence[™] available with

dimming and occupancy sensor

in fixture wireless control module, features

luminaire unless control options require connection to the dimming leads. Must specify if wiring leads are to be greater than

country construction material" per FAR

Materials under Trade Agreements effective

52.225-11 Buy American-Construction

KEY DATA

3,000-48,000

25-340

118–155

L70>60K

13.5-24 (6.1-10.9)

BEA_Ratio_RAR_1_2_Spec_R01

WARRANTY

5 year limited warranty

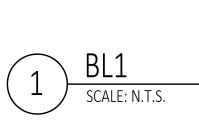
Lumen Range

Efficacy Range (LPW)

ixture Projected Life (Hours)

Weights lbs. (kg)

Wattage Range



WL3

Electrical & Optics

0-10V dimming available.

polycarbonate screen.

Arcluce North America Inc. 333 Bush Street - San Francisco, CA 94104 - Ph. +1 (408) 655-6275 - export4@arcluce.it

Universal input voltage: 120-277V

Wiring on removable galvanized steel

4000K (2700K or other CCTs available

on request).

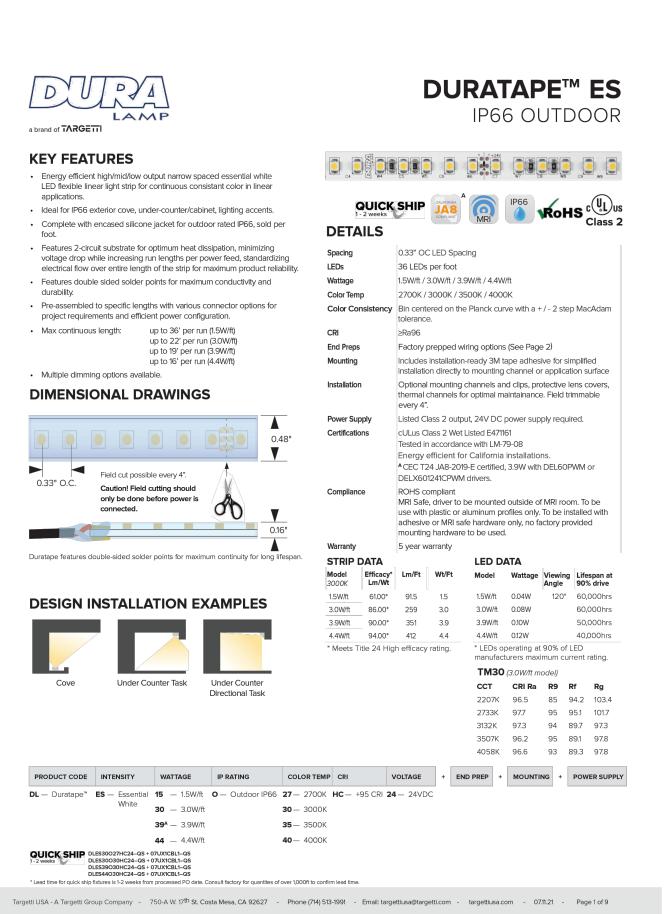
Reflector made of anodized aluminium

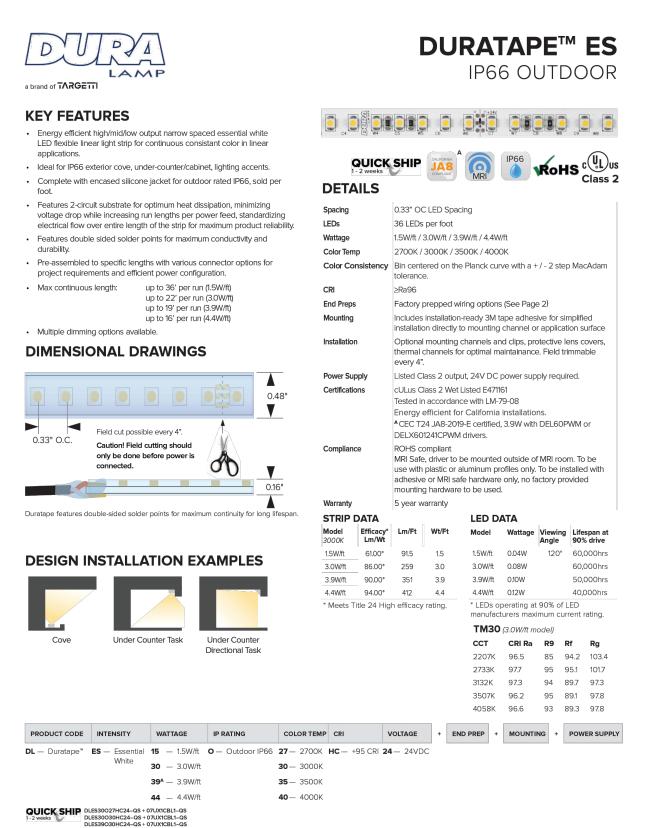
with non-iridescent specular finishing.

resistant, V2 self-extinguishing clear

High-efficacy LEDs with standard 3000K.
 Surface installation.

UV rays stabilized, 850°C glow wire test
 Available on request zinc-plated steel pillar





temperature on selected model variants.

High quality LED sources characterized

according to IES TM-30, with high colo

■ Die-cast aluminium base (EN 47100) for

Supplied with steel base plate and j-shaped

See accessories in the next page

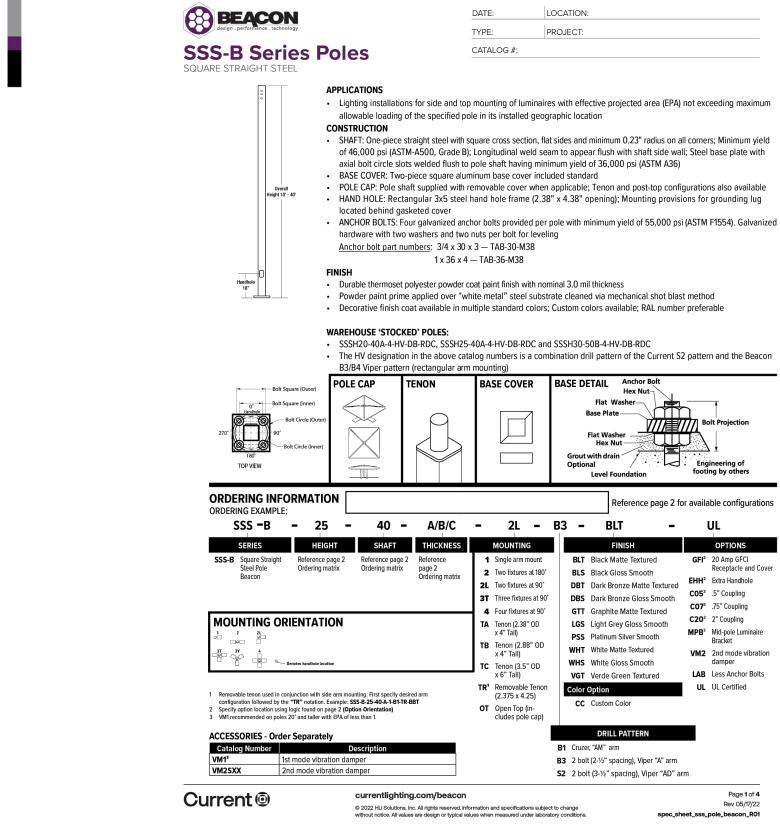
arcluce-us.com

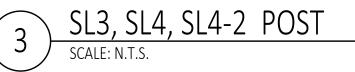
anchoring with rawlplugs.

conductors).

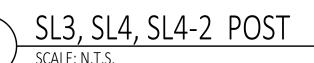
Supplied with power cord (18AWG

consistency <3SDCM and long useful life













STAMP REV. NO. DATE DESCRIPTION

> 3 8/25/23 RESPONSE TO COMMENTS LIGHTING



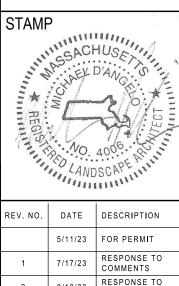
MICHAEL D'ANGELO ANDSCAPE ARCHITECTURE LL

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0 /

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BERKELEY PARTNERS
1 WASHINGTON MALL, S
BOSTON, MA

ш PROJECT
WAREHOUSE / INDUSTRIAL DE 100 / 200 FINANCIAL PARK FRANKLIN, MA

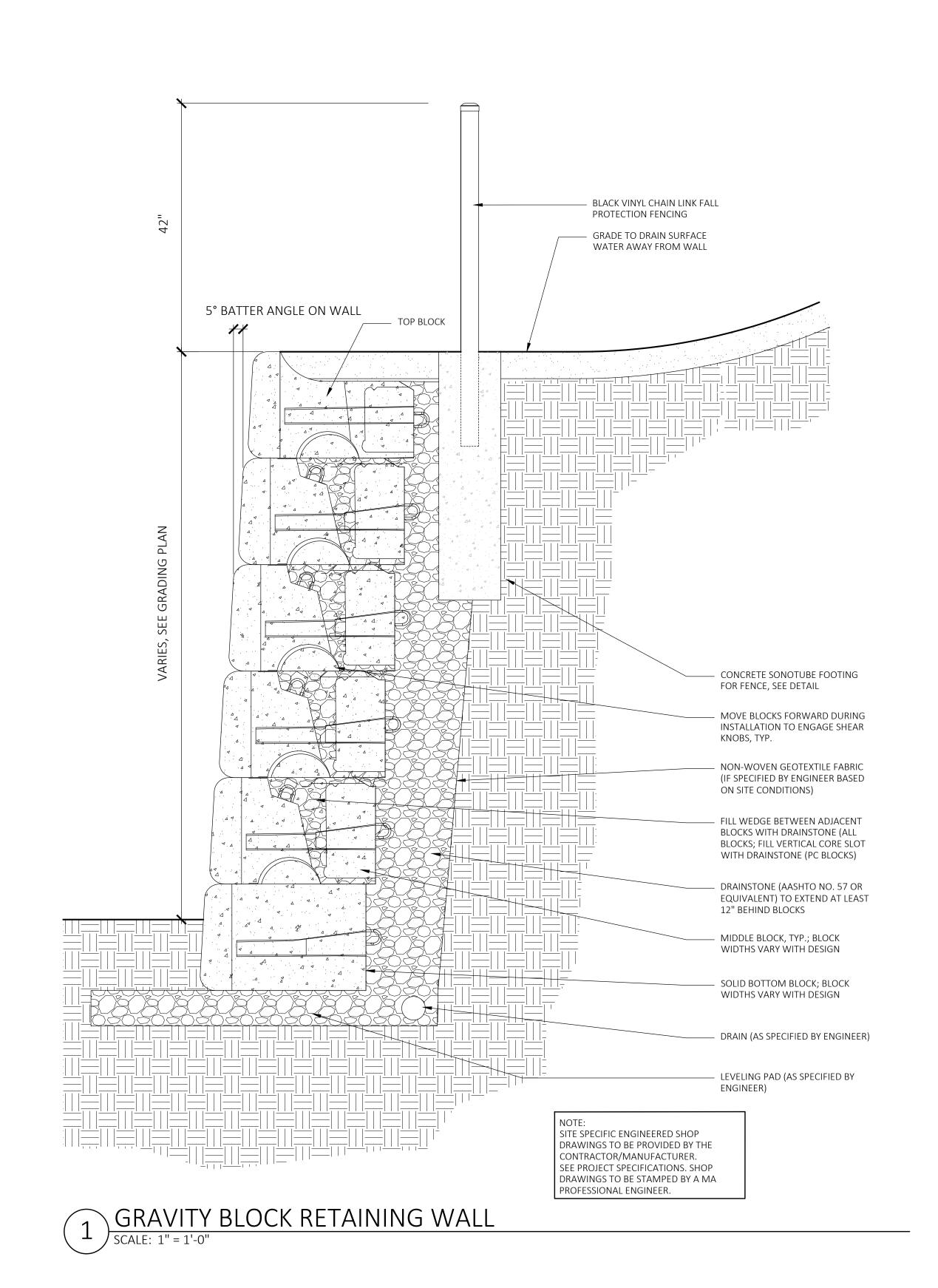


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NO.	DATE	DESCRIPTION										
	5/11/23	FOR PERMIT										
	7/17/23	RESPONSE TO COMMENTS										
	8/10/23	RESPONSE TO COMMENTS										
	8/25/23	RESPONSE TO COMMENTS										
	·											

LANDSCAPE DETAILS

L302 SCALE:
AS NOTED
DATE:

SHEET 20 OF 28

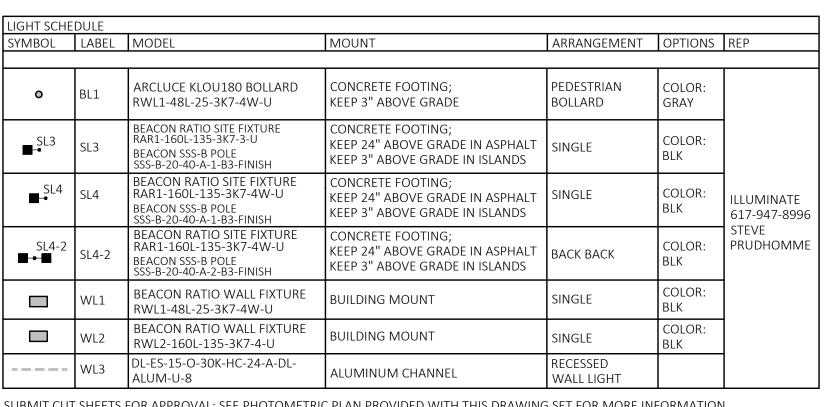


LANDSCAPE PHOTOMETRIC PLAN

L400

SHEET L402

SHEET 21 OF 28 plot date: 10/26/2023



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

Calculation Summary CalcType CHAMPAGNE BUILDING 17.20 47.00 Illuminance 1.72 PARKING AREAS Illuminance 1.70 30.9 0.0 N.A. N.A. 0.0 0.0 0.0 0.0 0.00.10 SPILL LIGHT 29.6 0.0 Illuminance (<del>0</del>.2 0.3 0,2 0.1  $\sqrt[4]{3.0}$   $\sqrt[4]{7}$   $\sqrt[4]{6.1}$   $\sqrt[4]{1}$   $\sqrt[4]{1}$  
 0.1
 0.2
 0.2
 0.3
 0.4
  $\frac{2}{3} \left( \frac{2}{3} \right)^{\frac{1}{2}} \cdot \frac{1}{2} = \frac{1}{3} \cdot \frac{1}{3} = \frac{1}{3} = \frac{1}{3} \cdot \frac{1}{3} = \frac{1}{3} \cdot \frac{1}{3} = \frac{1}{3} =$ MH: 22' 4.1 3.5/  $\frac{1}{5} \frac{1}{5} \frac{1}{7} \frac{1}{5} \frac{1}{3} \frac{1}{5} \frac{1}{2} \frac{1}{5} \frac{1}$  $\frac{1}{2} = \frac{1}{2} = \frac{1}$ 0  $\stackrel{\bullet}{0}.0$   $\stackrel{\bullet}{0}.1$   $\stackrel{\bullet}{0}.1$   $\stackrel{\bullet}{0}.2$   $\stackrel{\bullet}{0}.4$ \$6,7471.7 \dots \d  $0.3 \quad 0.4$   $0.2 / 0.1 \quad 0.1 \quad 0.0 \quad 0.1$ \$ \$ \frac{1.7}{0.1} \frac{1.7}{0.1} \frac{1.7}{0.1} \frac{1.0}{0.0} \frac{1.0} 28  $\sqrt[3]{0.3}$  0.1 0.1 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0 13-77 0.8 \$ 0.2 * 0.9 * 0.0 * 0.0 * 0.0 * 0.0 * 0.0 * 0.0 * 0.0 * 0.0 * 0.0 * 0.0 * 0.0 * 0.0 * 0.0 * 0.0 * 0.0 * 0.0 * 0.0 * 0.0 * 0.0 * 0.0 * 0.0 * 0.0 * 0.0 * 0.0 * 0.0 * 0.0 * 0.0 * 0.0 * 0.0 * 0.0 * 0.0 * 0.0 * 0.0 * 0.0 * 0.0 * 0.0 * 0.0 * 0.0 * 0.0 * 0.0 * 0.0 * 0.0 * 0.0 * 0.0 * 0.0 * 0.0 * 0.0 * 0.0 * 0.0 * 0.0 * 0.0 * 0.0 * 0.0 * 0.0 * 0.0 * 0.0 * 0.0 * 0.0 * 0.0 * 0.0 * 0.0 * 0.0 * 0.0 * 0.0 * 0.0 * 0.0 * 0.0 * 0.0 * 0.0 * 0.0 * 0.0 * 0.0 * 0.0 * 0.0 * 0.0 * 0.0 * 0.0 * 0.0 * 0.0 * 0.0 * 0.0 * 0.0 * 0.0 * 0.0 * 0.0 * 0.0 * 0.0 * 0.0 * 0.0 * 0.0 * 0.0 * 0.0 * 0.0 * 0.0 * 0.0 * 0.0 * 0.0 * 0.0 * 0.0 * 0.0 * 0.0 * 0.0 * 0.0 * 0.0 * 0.0 * 0.0 * 0.0 * 0.0 * 0.0 * 0.0 * 0.0 * 0.0 * 0.0 * 0.0 * 0.0 * 0.0 * 0.0 * 0.0 * 0.0 * 0.0 * 0.0 * 0.0 * 0.0 * 0.0 * 0.0 * 0.0 * 0.0 * 0.0 * 0.0 * 0.0 * 0.0 * 0.0 * 0.0 * 0.0 * 0.0 * 0.0 * 0.0 * 0.0 * 0.0 * 0.0 * 0.0 * 0.0 * 0.0 * 0.0 * 0.0 * 0.0 * 0.0 * 0.0 * 0.0 * 0.0 * 0.0 * 0.0 * 0.0 * 0.0 * 0.0 * 0.0 * 0.0 * 0.0 * 0.0 * 0.0 * 0.0 * 0.0 * 0.0 * 0.0 * 0.0 * 0.0 * 0.0 * 0.0 * 0.0 * 0.0 * 0.0 * 0.0 * 0.0 * 0.0 * 0.0 * 0.0 * 0.0 * 0.0 * 0.0 * 0.0 * 0.0 * 0.0 * 0.0 * 0.0 * 0.0 * 0.0 * 0.0 * 0.0 * 0.0 * 0.0 * 0.0 * 0.0 * 0.0 * 0.0 * 0.0 * 0.0 * 0.0 * 0.0 * 0.0 * 0.0 * 0.0 * 0.0 * 0.0 * 0.0 * 0.0 * 0.0 * 0.0 * 0.0 * 0.0 * 0.0 * 0.0 * 0.0 * 0.0 * 0.0 * 0.0 * 0.0 * 0.0 * 0.0 * 0.0 * 0.0 * 0.0 * 0.0 * 0.0 * 0.0 * 0.0 * 0.0 * 0.0 * 0.0 * 0.0 * 0.0 * 0.0 * 0.0 * 0.0 * 0.0 * 0.0 * 0.0 * 0.0 * 0.0 * 0.0 * 0.0 * 0.0 * 0.0 * 0.0 * 0.0 * 0.0 * 0.0 * 0.0 * 0.0 * 0.0 * 0.0 * 0.0 * 0.0 * 0.0 * 0.0 * 0.0 * 0.0 * 0.0 * 0.0 * 0.0 * 0.0 * 0.0 * 0.0 * 0.0 * 0.0 * 0.0 * 0.0 * 0.0 * 0.0 * 0.0 * 0.0 * 0.0 * 0.0 * 0.0 * 0.0 * 0.0 * 0.0 * 0.0 * 0.0 * 0.0 * 0.0 * 0.0 * 0.0 * 0.0 * 0.0 * 0.0 * 0.0 * 0.0 * 0.0 * 0.0 * 0.0 * 0.0 * 0.0 * 0.0 * 0.0 * 0.0 * 0.0 * 0.0 * 0.0 * 0.0 * 0.0 * 0.0 * 0.0 * 0.0 * 0.0 * 0.0 * 0.0 * 0.0 * 0.0 * 0.0 * 0.0 * 0.0 * 0.0 * 0.0 * 0.0 * 0.0 * 0.0 * 0.0 * 0.0 * 0.0 * 0.0 * 0.0 * 0.0 * 0.0 * 0.0 * 0.0 * 0.0 * 0.0 * 0.0 * 0.0 * 0.0 * 0.0 * 0.0 * 0.0 * 0.0 * 0.0 * 0.0 * 0.0 * 0 4.3 4.8 3.3 3.0 29.6 2.6 2.8 5.6 5.3 BUILDING 1 SHEET L400

LANDSCAPE PHOTOMETRIC PLAN

SCALE: 1" = 20'-0"

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SUL EY PARTNERS INGTON MALL, I, MA CLIENT
BERKELE
1 WASHII
BOSTON,

2 8/10/23 RESPONSE TO COMMENTS

LANDSCAPE PHOTOMETRIC PLAN

3 8/25/23 RESPONSE TO COMMENTS

L401

SHEET 22 OF 28

plot date: 10/26/2023

									LIGHT SC SYMBOL			MODEL				MOUN	Т			ARRA	NGEMEI	NT OP	TIONS	REP				
									0	BL		ARCLUCE RWL1-48L			\RD		ETE FOO ' ABOVE			PEDES BOLLA	STRIAN ARD	CO GR	LOR: AY					
				[†] 0.0	, [†] 0.				SL3	SL3	3	BEACON RARAR1-160L BEACON SS SSS-B-20-4	-135-3K7 SS-B POLE	'-3-U E		KEEP 2		TING; E GRADE IN GRADE IN		SINGL	.E	CO BL	LOR:					
		⁺0.0	[†] 0.0						SL.	4 _{SL}	1	BEACON F RAR1-160 BEACON SS	RATIO SI ⁻ L-135-3I SS-B POLE	TE FIXTU K7-4W-U	IRE J	KEEP 2		,	N ASPHALT	SINGL	.E	CO BL	LOR:	ILLUMI	NATE -7-8996			
† 0.0	[†] 0.0	· 0.0	· 0.0	[†] 0.0	<b>†</b> 0.				SL4	-2 _{SL}	1-2	BEACON F RAR1-160 BEACON SS	RATIO SI L-135-3I SS-B POLE	TE FIXTL K7-4W-l		CONCF KEEP 2	ETE FOO 4" ABOVI	TING;	N ASPHALT	BACK	ВАСК	CO BL	LOR:	STEVE				
₫.0	⁺0.0	⁺0.0	⁺0.0	[†] 0.0	<b>†</b> 0.					Wl	1	BEACON F RWL1-48L	RATIO W	ALL FIXT	TURE	+	NG MOU		ISLANDS	SINGL	.E	CO BL	LOR:					
†o.0	₫.0	† • 0	⁺0.0	[†] 0.0	<b>†</b> 0.(					Wl	_2	BEACON F	)L-135-3	8K7-4-U		BUILDI	NG MOU	NT		SINGL		CO BL	LOR:					
[†] 0.0	†o.o	to.0	†o.0	\ t.o	[†] 0.(						_3	DL-ES-15-0 ALUM-U-8	3				NUM CH			-	LIGHT							
· . · ·	0.0 ,								SUBMIT (	CUT SHI	EETS F	OR APPRO	VAL; <u>SE</u>	E PHOTO	<u>OMETRI</u>	C PLAN F	ROVIDE	O WITH TH	IS DRAWIN	IG SET F	OR MOR	<u>E INFORI</u>	MATION	<u>l.</u>				
0.0	~ ~ ~ ~ ~ ~ ~ ~ ~ ~ ~ ~ ~ ~ ~ ~ ~ ~ ~	6.0 H	0.0	0.0	Ō.(				Calcula	ition Si	ımmaı	rv /																
0.0	Ō.0	0.0	ō.o	0.0	\$.(				Label CHAME	PAGNE	BUILD			Illu	lcType minanc	ce F		Avg 1.72	Max 4.7	Mi: 0.1		Avg/Min 17.20	47.00	-				
0.0	0.0	†o.o	0.0	0.0	0.0				SPILL LI	Contract of the contract of th	AS			-	minano			0.10	30.9 29.6	0.0	-	N.A. N.A.	N.A.					
		0.0																										
0.0	0.0	0.0	0.0	0.0	· o	0.0	0.0	₽.0	₫.0	[†] 0.0	(†O.	0 0.0	†o.o	)       †   . (	o †.	.0 0	0 0.	0 0.0	७.०	[†] 0.0	[†] 0.0	[†] 0.0	†o.0	.o.	[†] 0.0	<b>†</b> 0.0	· 0.0	[†] 0.0
0.0	0.0	७.०	0.0	†o.0	0	†o	0.0	[†] 0.0	to.0	· 0.0	ţ,	0 0.0	₽.0	) [†] 0.(	) [†] 0.	. 0 0.	0 0.	0 0.0	[†] 0.0	[†] 0.0	[†] 0.0	· 0.0	[†] 0.0	[†] 0.0	७.0	⁺0.0	[†] 0.0	[†] 0.0
0.0	0.0	₫.0	0.0	· 0.0	0.0	70.0	⁺0.0	[†] 0.0	[†] 0.0	†o.0	to.	0 0,0	⁺0.0	, to.(	) [†] 0.	0 0.	0 0.	0 0.0	₽.0	[†] 0.0	⁺0.0	⁺0.0	· 0.0	[†] 0.0				
6.0	· † . 0	to.0	[†] 0.0	[†] 0.0	· 0.0	ţ.0	, to . 0	.0.0	[†] 0.0	<b>†</b> 0.0	†o.	0 0.0	<b>t</b> 0	⁺	) [†] 0.	0 0.	o [†] o.	0 0.0	· 0.0	[†] 0.0	[†] 0.0	⁺0.0	[†] 0.0	⁺0.0	₽.0	⁺ . 0	[†] 0 . 0	<b>†</b> 0
0.0	₽.0	70.0	⁺0.0	· 0.0	<b>†</b> 0.0	†o.0	ţ.0	to.0	₾.0	[†] 0.0	<b>†</b> 0.	0 0.0	<pre></pre>	.o	) [†] 0.	o to.	o †.	0 0.0	[†] 0.0	[†] 0.0	[†] 0 0	† n	† 0 0	† o	† o	† o	† ₀ 0	÷. o
0.0	[†] 0.0	\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\	<b>t</b> ₀ .0	[†] 0.0	[†] 0.0	[†] 0.0	· 0.0	ţ.0	† † . d	[†] 0.0	[†] 0.0	0 0.0	† . o	, †0 . 0	, <del>,</del>	0 0	n †	n † n	₽.0	†O O	÷0.0	<b>*</b>	+ 0	÷	±	·	+	0.0
0.0	[†] 0.0	† <b>\</b> 0	†o	[†] 0.0	[†] 0.0	[†] 0.0	[†] 0.0	†o.0	† ₀ ,0	0.0	† 0 . (	0 † 0	† O	700	† †	0 †0	0	0	· · ·	<b>*</b>	±	+	+	0.0	0.0	0.0	0.0	0.0
																			†o.o									
0.0	[†] 0.0	[†] 0.0		† o	†	† n	† n	† o	† o	+ 0			· · ·	·. ·		0 0.	0 0.0	0.0	0.0 [†] 0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	·0.0
. 0	† n	† n	to	*· · · ·	† o	+0.0	0.0	†	U.U	0.0	0.0	)	0.0	0.0	0.0	0 0.	0.0	0.0	0.0	Ō.0	0.0	0.0	0.0	0.0	₾.0	७.०	0.0	0.0
.0	+ 0	· · · ·	• · · · ·	) . U	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0\	0.0	0.0	ō. (	o ō.	o †	ō.o	७.0	७.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
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.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	Ō.0 ∗	†. P	†o.0	) \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \	.o.	\\\ \0.0	0.0	o ( † . ·	). ō. c	0.0	<b>†</b> 0.0	[†] 0.0	[†] 0.0	0.0	0.0	0.0	[†] 0.0	[†] 0.0	[†] 0.0	0.0
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						{_		~	3			/ /	/		\	1/			. o									
. 0	0.0	0.0	0.0	0.0	0.0	to.02	0.0	t.0.5	<pre> †.0</pre>	0.1	ð.1	0.2	0 /3	,	0.2		0.1	0.1	†o.o\	₽.0	0.0	· 0.0	†O.0	· 0.0	[†] 0.0	⁺0.0	[†] 0.0	[†] 0.0
							~		/ )		/	y /	/ /		<u> </u>	7	11/ 🖜	\ /	to.1	\								
. 0	0.0	⁺0.0	[†] 0.0	[†] 0.0	0.0	<b>†</b> 0.0	Q & Q	†.ı* 	7.1	0.2/	to.3	//0.7/		1.2	† 0,58	†.5	Ø/3	to.2	[†] 0.1	to.o	[†] 0.0	[†] 0.0	† 0.0	[†] 0.0	[†] 0.0	<b>†</b> 0.0	[†] 0.0	[†] 0.0
. 0	[†] 0.0	· 0.0	[†] 0.0	[†] 0.0	[†] 0.0	· 0.0	to.1	76.4.18 76.4.18	0.2	, 0.3	/b.,6	1.2	[†] 2.0	* 2.3	1.7	1,	X \$ . 6	0.2	0.0	to.o\	[†] 0.0	[†] 0.0	† 0.0	[†] 0.0	[†] 0.0	[†] 0.0	[†] 0.0	[†] 0.0
. 0	· 0.0	[†] 0.0	[†] 0.0	[†] 0.0	[†] 0.0	0.1	· 0.1	[†] 0.1	<b>1</b> 0.3	g.5/	1.0,	1.7	⁺ 2/· 8/	3.6	· ₃ 3 ₅ , 2	i.4	1.0		†o.1									
0	· 0.0	[†] 0.0	[†] 0.0	[†] 0.1	[†] 0.1	<b>7</b> 0.1	†1	to.2 /	† † †5	0.9	1.5	[†] 2.2	<b>b</b> .1	3.8 4.3	4.4	3.7 2.7	1.5	\\ .			1							
												±.8 ³ .				/ /		\\\	(0.1)		,	\						
						Section 1			/1.5		,	3.1 3.	7 4.0	3.8 3.2	`. <i>[</i>				<b>1</b> . 1			/						
							_/				3/0 3.	SI MH: 2	$\frac{4}{2}$	./3	/ /	/	\		†				$\mathcal{N}$					
			RI1	WI 3	3				1.8	//3		4.5 4.2	/ //		\	/	/ /-		†.1	1	0.0	<b>t</b> 0.0	₫.₫	0.0	0.0	0.0	0.0	0.0
T /	0.8	15.4/	1.5	1.5	1.6	1.2	0.7	0-	— DI 1	1 2	.6 4.4	4.6 3.4	5 //1.9	1.1	[†] 0.8	0.5	(0.3	0.3	0.2 0		0.1	to.1798	to.0	\$.k	⁺0.0	₀.0	0.0	0.0
	0.8	2.3	2.8	2.9	2.6	0.6	to. 1	2.8	2.7	6 2	.1 2.6	5 2.7	1.0	0.5	0/. 4	<b>0.</b> 3	0.2	0,1	0.1/	0.1		to.0	· 0.0	<b>t</b> .0	70.0	७.०	[†] 0.0	0.0

 $\overset{\circ}{0}.4$   $\overset{\circ}{0}.3$   $\overset{\circ}{0}.2$   $\overset{\circ}{0}.3$   $\overset{\circ}{0}.1$   $\overset{\circ}{0}.1$   $\overset{\circ}{0}.1$   $\overset{\circ}{0}.0$   $\overset{\circ}{0}.0$   $\overset{\circ}{0}.0$   $\overset{\circ}{0}.0$   $\overset{\circ}{0}.0$   $\overset{\circ}{0}.0$   $\overset{\circ}{0}.0$   $\overset{\circ}{0}.0$ 

0.0 to 0.

\$\frac{1}{5.0}\$ \$\frac{1}{5.0 

0 5.0 \[ \bullet 0.0 \dot 0.0 

BL1 . 8 0.6 0.0 0.1 10.2 to 0.2 BL1 to 0.0 0.3 0.1 0.0 0.4 1.6 0.1 0.0 0.1 0.0 0.0 0.1 0.0 0.0 0.1 0.0 0.2 0.7 0.0 0.8 0.9 0.9 to

SHEET L401

SHEET L403

BUNDING 1 752 FT

LANDSCAPE PHOTOMETRIC PLAN

SCALE: 1" = 20'-0"

LANDSCAPE PHOTOMETRIC PLAN

DRAWN:
AA,NC
CHECKED:
NC
SCALE:
AS NOTED

DATE: 5/11/2023 SHEET 23 OF 28



IGHT SCHEDULE

0 0.0 0.0 0.0 0.0 0.0 0.0 0.1 0.1 0.1



MICHAEL D'ANGELO ANDSCAPE ARCHITECTURE LI 840 SUMMER STREET SUITE 201A BOSTON, MA 02127 t. 203.592.4788

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1 WASHINGTON MALL, SUITE
BOSTON, MA

AREHOUSE / INDUSTRIAL DEV 10 / 200 FINANCIAL PARK ANKLIN, MA

STAMP

STAMP

SACHUSE

NO. 4006

ANDSCAPE

ANDSCAPE

1 7/17/23 FOR PERMIT

1 7/17/23 RESPONSE TO COMMENTS

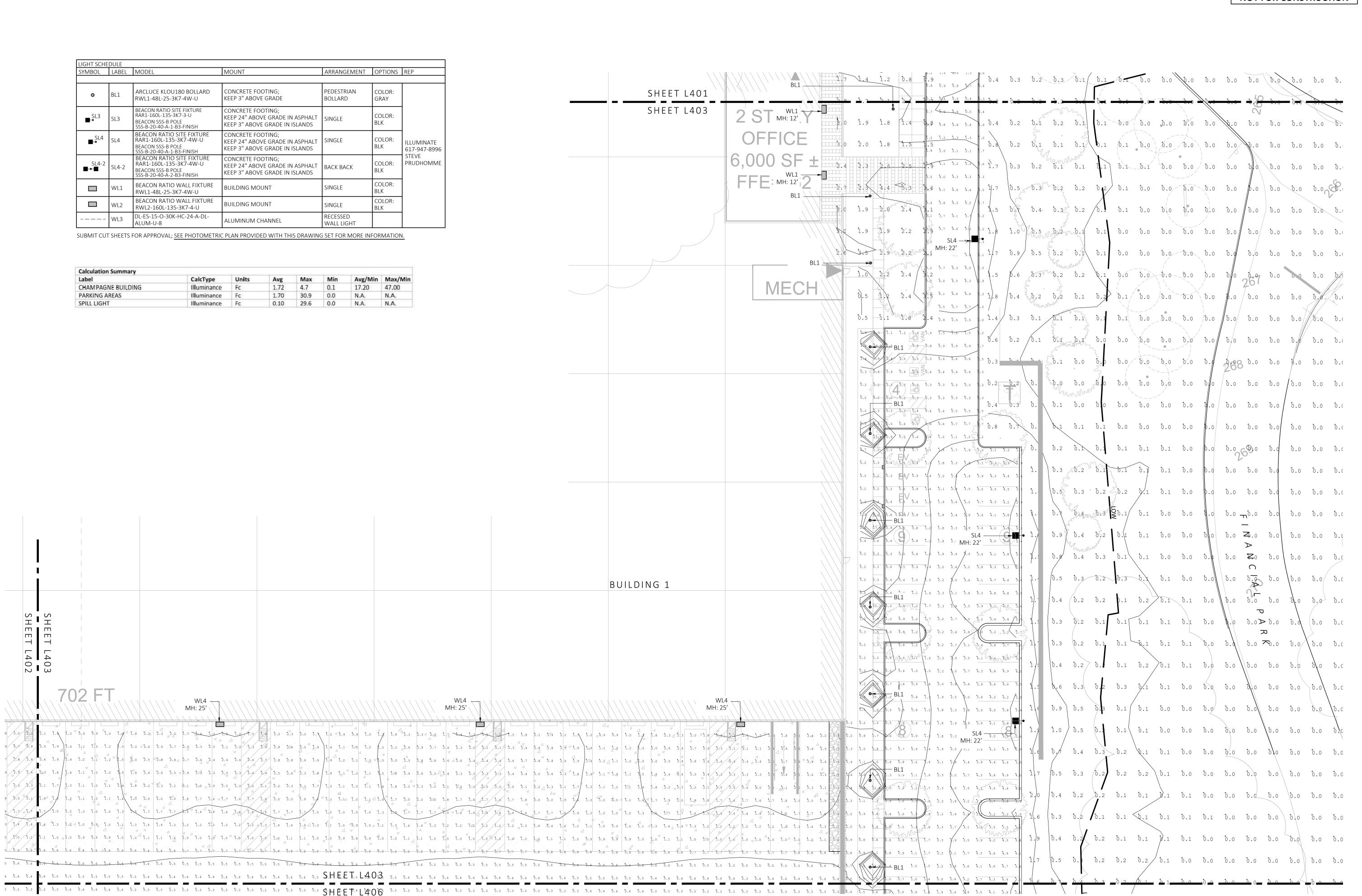
2 8/10/23 RESPONSE TO COMMENTS

3 8/25/23 RESPONSE TO COMMENTS

LANDSCAPE PHOTOMETRIC PLAN

DRAWN:
AA,NC
CHECKED:
NC
SCALE:
AS NOTED

SHEET 24 OF 28



MICHAEL D'ANGELO LANDSCAPE ARCHITECTURE LL 840 SUMMER STREET SUITE 2014

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

REV. NO. DATE DESCRIPTION

5/11/23 FOR PERMIT

7/17/23 RESPONSE TO COMMENTS

8/10/23 RESPONSE TO COMMENTS

8/25/23 RESPONSE TO COMMENTS

LANDSCAPE PHOTOMETRIC PLAN

DRAWN:
AA,NC
CHECKED:
NC
SCALE:
AS NOTED
DATE:

AS NOTED
DATE:
5/11/2023

SHEET 25 OF 28

plot date: 10/26/2023

0 10 20 40 S C A L E I N F E E T

LANDSCAPE PHOTOMETRIC PLAN

SCALE: 1" = 20'-0"

SYMBOL	LABEL	MODEL		MOUNT			ARRANG	EMENT	ОРТ	IONS	REP
	12.222	10022		[			17		10		
0	BL1	ARCLUCE KLOU180 RWL1-48L-25-3K7-4		CONCRETE FO			PEDESTR BOLLARD		COL GRA		
SL3	SL3	BEACON RATIO SITE F RAR1-160L-135-3K7-3 BEACON SSS-B POLE SSS-B-20-40-A-1-B3-F	3-U	CONCRETE FOR KEEP 24" ABOVE KEEP 3" ABOVE	VE GRÅDE IN		SINGLE		COL BLK		
SL4	SL4	BEACON RATIO SITE RAR1-160L-135-3K BEACON SSS-B POLE SSS-B-20-40-A-1-B3-F	7-4W-U	CONCRETE FOR KEEP 24" ABOVE KEEP 3" ABOVE	VE GRADE IN		SINGLE		COLOR: BLK		ILLUM 617-9
SL4-2	SL4-2	BEACON RATIO SITI RAR1-160L-135-3K BEACON SSS-B POLE SSS-B-20-40-A-2-B3-F	E FIXTURE 7-4W-U	CONCRETE FOR KEEP 24" ABOVE KEEP 3" ABOVE	VE GRADE IN		BACK BA	CK	COL BLK		STEVE PRUD
	WL1	BEACON RATIO WA RWL1-48L-25-3K7-4		BUILDING MO	UNT		SINGLE		COL BLK		
	WL2	BEACON RATIO WA RWL2-160L-135-3K		BUILDING MO	UNT		SINGLE		COL BLK		
	WL3	DL-ES-15-O-30K-HC	-24-A-DL-	A			RECESSE	D			
UBMIT CU	T SHEETS	ALUM-U-8 FOR APPROVAL; <u>SEE</u>	PHOTOMETRI	ALUMINUM CI		S DRAWIN	WALL LIC		FORM	1ATION	<u>l.</u>
		FOR APPROVAL; <u>SEE</u>	PHOTOMETRI			S DRAWIN	•		FORM	1ATION	<u>.</u>
Calculation		FOR APPROVAL; <u>SEE</u>		L C PLAN PROVIDE	ED WITH THI		G SET FOR	MORE IN			
Calculation Label	n Summa	FOR APPROVAL; <u>SEE</u>	СаІсТуре	L C PLAN PROVIDE Units	ED WITH THI	Max	G SET FOR	MORE IN	<b>Viin</b>	Max/N	
Calculation Label CHAMPAG	n Summa	FOR APPROVAL; <u>SEE</u>	CalcType Illuminance	Units	Avg 1.72	Max 4.7	Min 0.1	Avg/N	/lin	Max/N 47.00	
Calculation Label	n <b>Summ</b> a INE BUILI AREAS	FOR APPROVAL; <u>SEE</u>	СаІсТуре	Units FC FC	ED WITH THI	Max	G SET FOR	MORE IN	⁄lin	Max/N	
Calculation Label CHAMPAG PARKING / SPILL LIGH	n Summa INE BUILI AREAS T	FOR APPROVAL; <u>SEE</u>	CalcType Illuminance Illuminance Illuminance	Units FC FC FC	Avg 1.72 1.70 0.10	Max 4.7 30.9 29.6	Min 0.1 0.0 0.0	Avg/N 17.20 N.A. N.A.	<b>Viin</b>	Max/N 47.00 N.A. N.A.	Min

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EV. 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

STAMP

LANDSCAPE PHOTOMETRIC PLAN

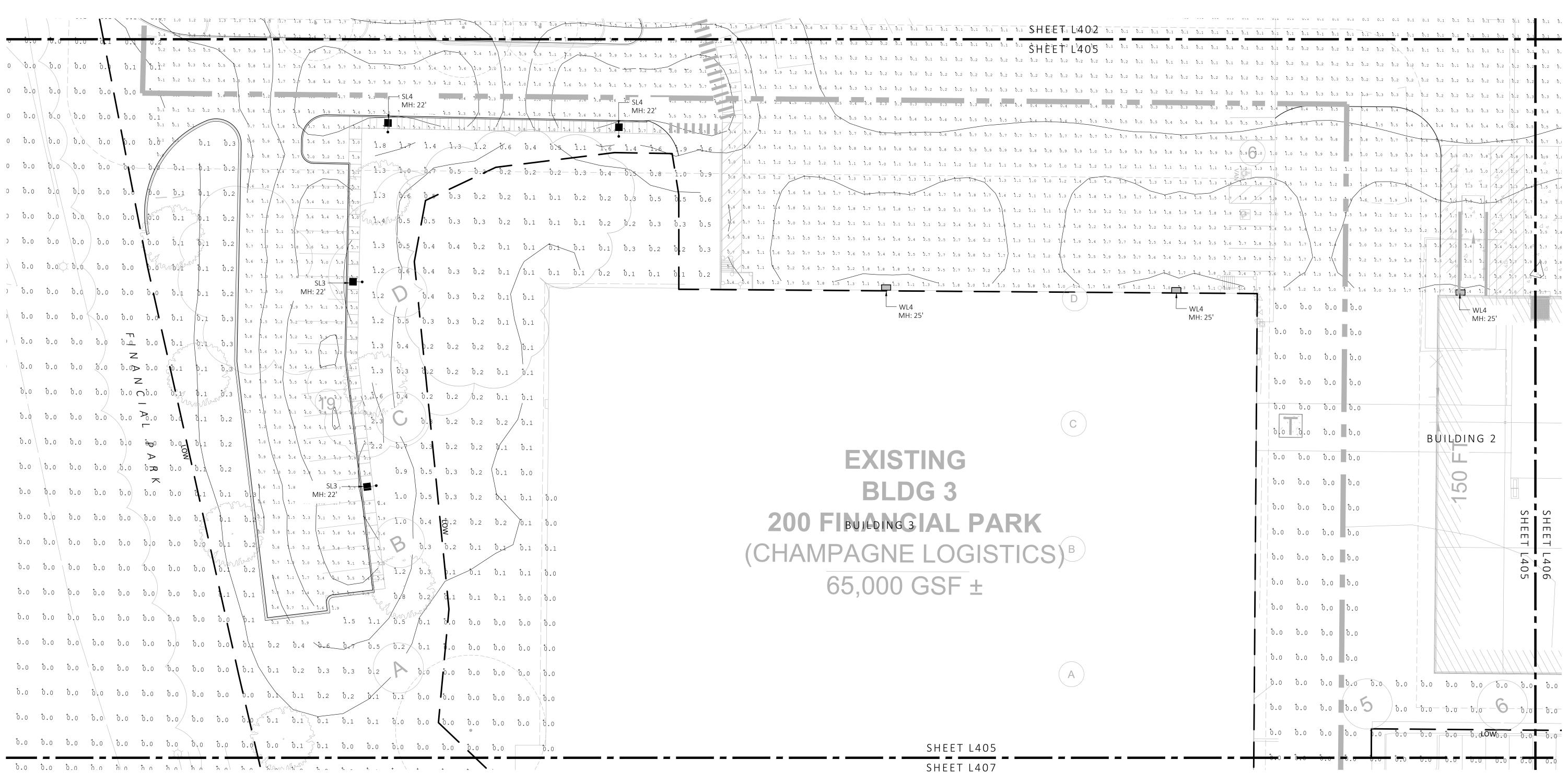
L405

SHEET 26 OF 28 plot date: 10/26/2023

LIGHT SCHEDULE SYMBOL LABEL MODEL ARRANGEMENT OPTIONS REP MOUNT ARCLUCE KLOU180 BOLLARD CONCRETE FOOTING; PEDESTRIAN COLOR: BOLLARD RWL1-48L-25-3K7-4W-U KEEP 3" ABOVE GRADE GRAY BEACON RATIO SITE FIXTURE RAR1-160L-135-3K7-3-U CONCRETE FOOTING; COLOR: SL3 ■ KEEP 24" ABOVE GRADE IN ASPHALT | SINGLE EACON SSS-B POLE SS-B-20-40-A-1-B3-FINISH KEEP 3" ABOVE GRADE IN ISLANDS BEACON RATIO SITE FIXTURE COLOR: RAR1-160L-135-3K7-4W-U KEEP 24" ABOVE GRADE IN ASPHALT | SINGLE LUMINATE BEACON SSS-B POLE SSS-B-20-40-A-1-B3-FINISH KEEP 3" ABOVE GRADE IN ISLANDS 517-947-8996 STEVE EACON RATIO SITE FIXTURE SL4-2 ■-PRUDHOMME COLOR: RAR1-160L-135-3K7-4W-U KEEP 24" ABOVE GRADE IN ASPHALT BACK BACK BEACON SSS-B POLE KEEP 3" ABOVE GRADE IN ISLANDS COLOR: BEACON RATIO WALL FIXTURE **BUILDING MOUNT** RWL1-48L-25-3K7-4W-U BEACON RATIO WALL FIXTURE COLOR: BUILDING MOUNT SINGLE RWL2-160L-135-3K7-4-U ALUMINUM CHANNEI

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

Calculation Summary CalcType CHAMPAGNE BUILDING Illuminance PARKING AREAS Illuminance 1.70 30.9 0.0 N.A. SPILL LIGHT Illuminance 0.10 29.6 0.0 N.A.



 $0.2 \quad 0.2 \quad 0.2 \quad 0.1 \quad 0.0 \quad 0.0$ 



MICHAEL D'ANGELO NDSCAPE ARCHITECTURE

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INDUSTRIAL ANCIAL PARK

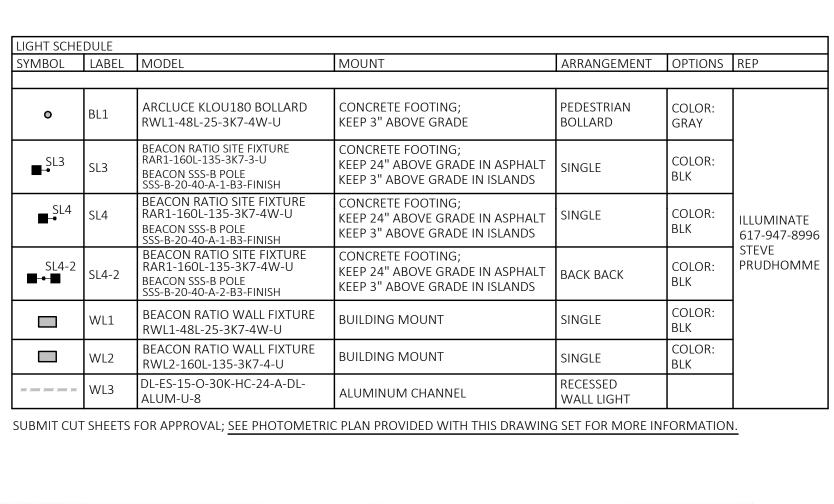
2 8/10/23 RESPONSE TO COMMENTS

LANDSCAPE PHOTOMETRIC PLAN

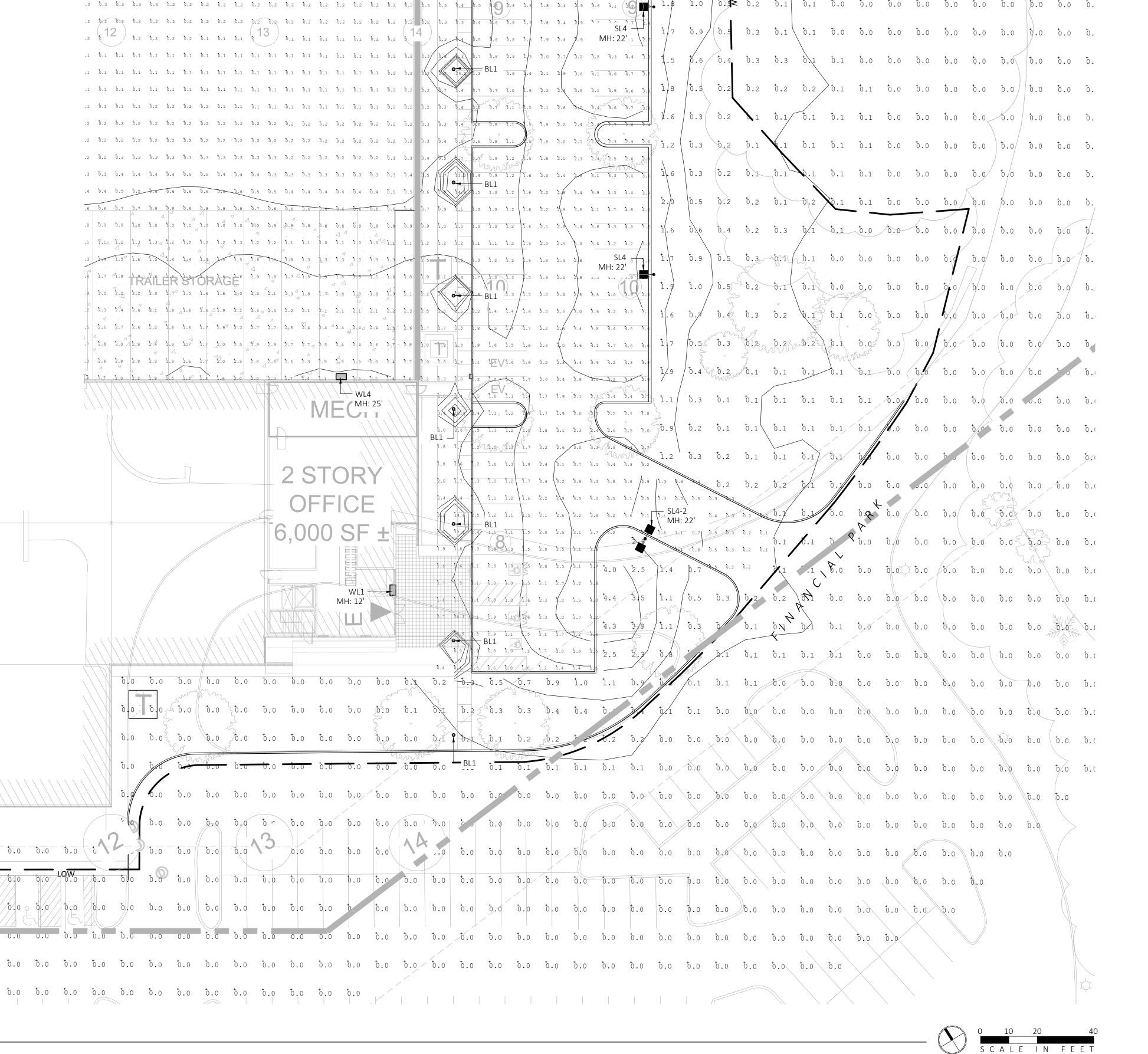
L406

SHEET 27 OF 28

plot date: 10/26/2023



Calculation Summary							
Label	CalcType	Units	Avg	Max	Min	Avg/Min	Max/Mi
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.



0.8 0.9 1.1 \ 1.7 2.3 \ 3.1 3.7 4.3 4.8 4.9 4.

BLDG 2 PROPOSED WAREHOUSE 65,000 GSF ± SHEET L406 SHEET L405

FFE=262 BUILDING 2

351 FT

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

†..o †..o

L407

SHEET 28 OF 28 plot date: 10/26/2023

SYMBOL	LABEL	MODEL	MOUNT	ARRANGEMENT	OPTIONS	REP	
0	BL1	ARCLUCE KLOU180 BOLLARD RWL1-48L-25-3K7-4W-U	CONCRETE FOOTING; KEEP 3" ABOVE GRADE	PEDESTRIAN BOLLARD	COLOR: GRAY		
SL3	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 ■•	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 617-947-899	
SL4-2	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	STEVE PRUDHOMME	
	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			

Label	CalcType	Units	Avg	Max	Min	Avg/Min	Max/Mir
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.

