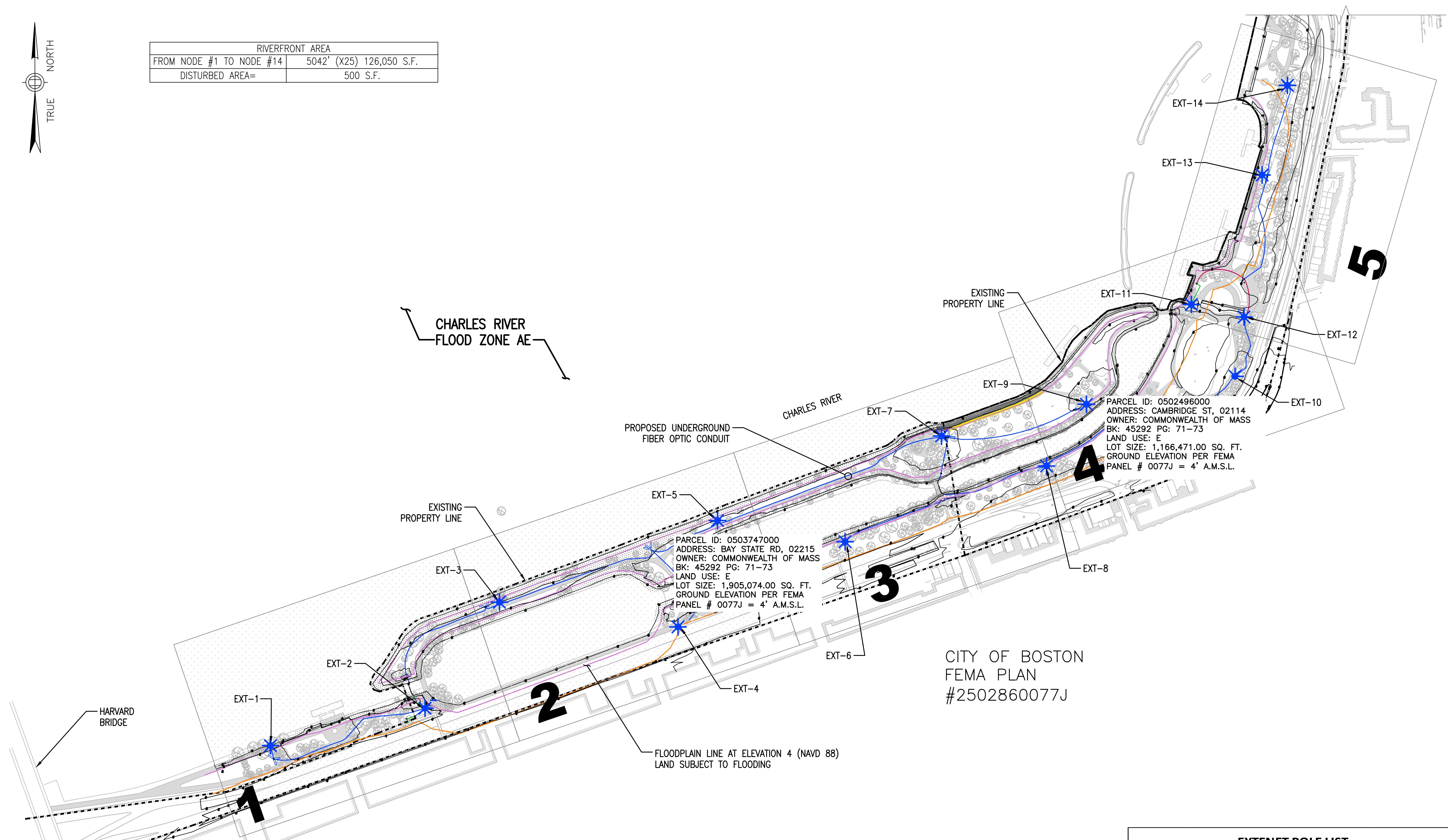


RIVERFRONT AREA	
FROM NODE #1 TO NODE #14	5042' (X25) 126,050 S.F.
DISTURBED AREA=	500 S.F.

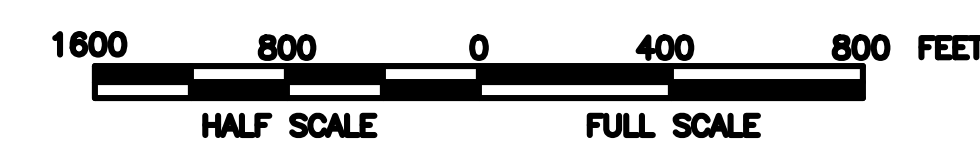
TOWARDS LONGFELLOW BRIDGE



NOTES:

1. AN INSTRUMENT SURVEY HAS NOT BEEN PERFORMED BY JACOBS ENGINEERING GROUP IN PREPARATION OF THESE PLANS. ALL EXISTING INFORMATION HAS BEEN COMPILED FROM AVAILABLE GIS DATA AND A FIELD INVESTIGATION BY JACOBS ENGINEERING GROUP PERFORMED ON 9/3/15.
2. PROPOSED FIBER OPTIC CABLE CONDUIT LOCATIONS AND EXCAVATION METHODS SHOWN ARE BASED ON VARIOUS SITE WALKS WITH OWNER AND CLIENT REPRESENTATIVES. OWNER, CERTIFIED ARBORIST, AND DCR ARBORIST SHALL APPROVE ALL TRENCHING METHODS AND LOCATIONS PRIOR TO EXCAVATION. CERTIFIED ARBORIST WILL OBSERVE ALL CONSTRUCTION AS REQUIRED.
3. ANY DEVIATIONS FROM THESE PLANS WILL REQUIRE OWNER, ENGINEER, CERTIFIED ARBORIST AND DCR ARBORIST APPROVAL PRIOR TO INSTALLATION.
4. CONTRACTOR SHALL NOT SAW-CUT NEW ASPHALT PAVEMENT ALONG DR. PAUL DUDLEY WHITE BIKE PATH (INSTALLED LATE 2015).
5. WETLAND RESOURCE AREAS FIELD VERIFIED BY LUCAS ENVIRONMENTAL, LLC ON APRIL 25, 2019

1 OVERALL SITE PLAN
 C-0 SCALE: 1" = 200' FULL SCALE (22"x34")
 1" = 400' HALF SCALE (11"x17")



EXTENET POLE LIST			
NODE	X-COORDINATE	Y-COORDINATE	POLE NUMBER
EXT-1	-71.08637600000	42.35288800000	46
EXT-2	-71.08457220000	42.35324900000	N/A
EXT-3	-71.08354900000	42.35426200000	57
EXT-4	-71.08108500000	42.35406600000	64
EXT-5	-71.08052365000	42.35509684000	67
EXT-6	-71.07866900000	42.35492700000	76
EXT-7	-71.07748600000	42.35593500000	87
EXT-8	-71.07606043000	42.35563686000	94
EXT-9	-71.07550233870	42.35624819460	99
EXT-10	-71.07349700000	42.35652000000	117
EXT-11	-71.07405400000	42.35724700000	N/A
EXT-12	-71.07339400000	42.35711000000	125
EXT-13	-71.07311700000	42.35854500000	133
EXT-14	-71.07278000000	42.35947600000	143

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 FAX (617) 242-9824

ENGINEER SEAL

APPROVALS

LANDLORD _____

LEASING _____

R.F. _____

ZONING _____

CONSTRUCTION _____

A & E _____

PROJECT NO: EREX000

DRAWN BY: JT

CHECKED BY: CAT

DESIGN REVISIONS

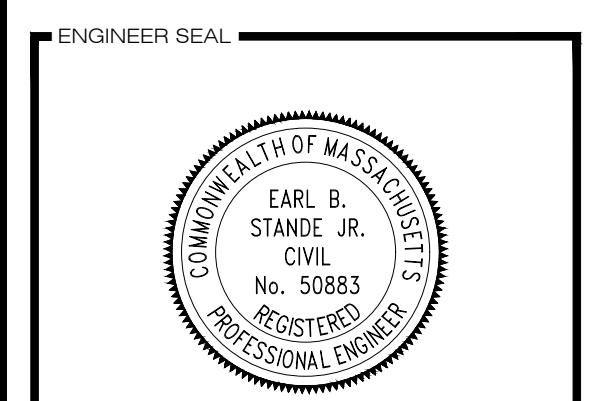
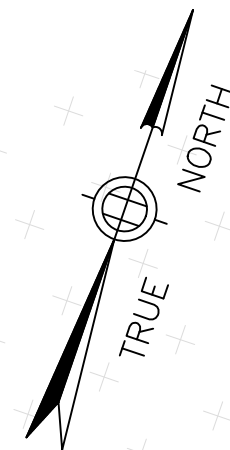
SUBMITTALS	
6	08/21/19 RENAME 100' BUFFER ZONE
5	07/08/19 REVISED PER COMMENTS
4	06/06/19 REVISED PER COMMENTS
3	05/15/19 WETLAND FLAGGING
2	02/28/19 PER DCR COMMENTS
1	01/09/19 REVISED PER COMMENTS
0	10/23/18 FOR EXTENET REVIEW

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SITE NAME
 ESPLANADE oDAS
 STORROW DRIVE
 BOSTON, MA 02114

SHEET NAME
 OVERALL SITE PLAN

SHEET NUMBER
C-0
CONSTRUCTION



APPROVALS

LANDLORD _____

LEASING _____

R.F. _____

ZONING _____

CONSTRUCTION _____

A & E _____

PROJECT NO: EREX0000

DRAWN BY: JT

CHECKED BY: CAT

DESIGN REVISIONS

NO.	DATE	REVISION
6	08/21/19	RENAME 100' BUFFER ZONE
5	07/08/19	REVISED PER COMMENTS
4	06/06/19	REVISED PER COMMENTS
3	05/15/19	WETLAND FLAGGING
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SITE NAME

ESPLANADE oDAS

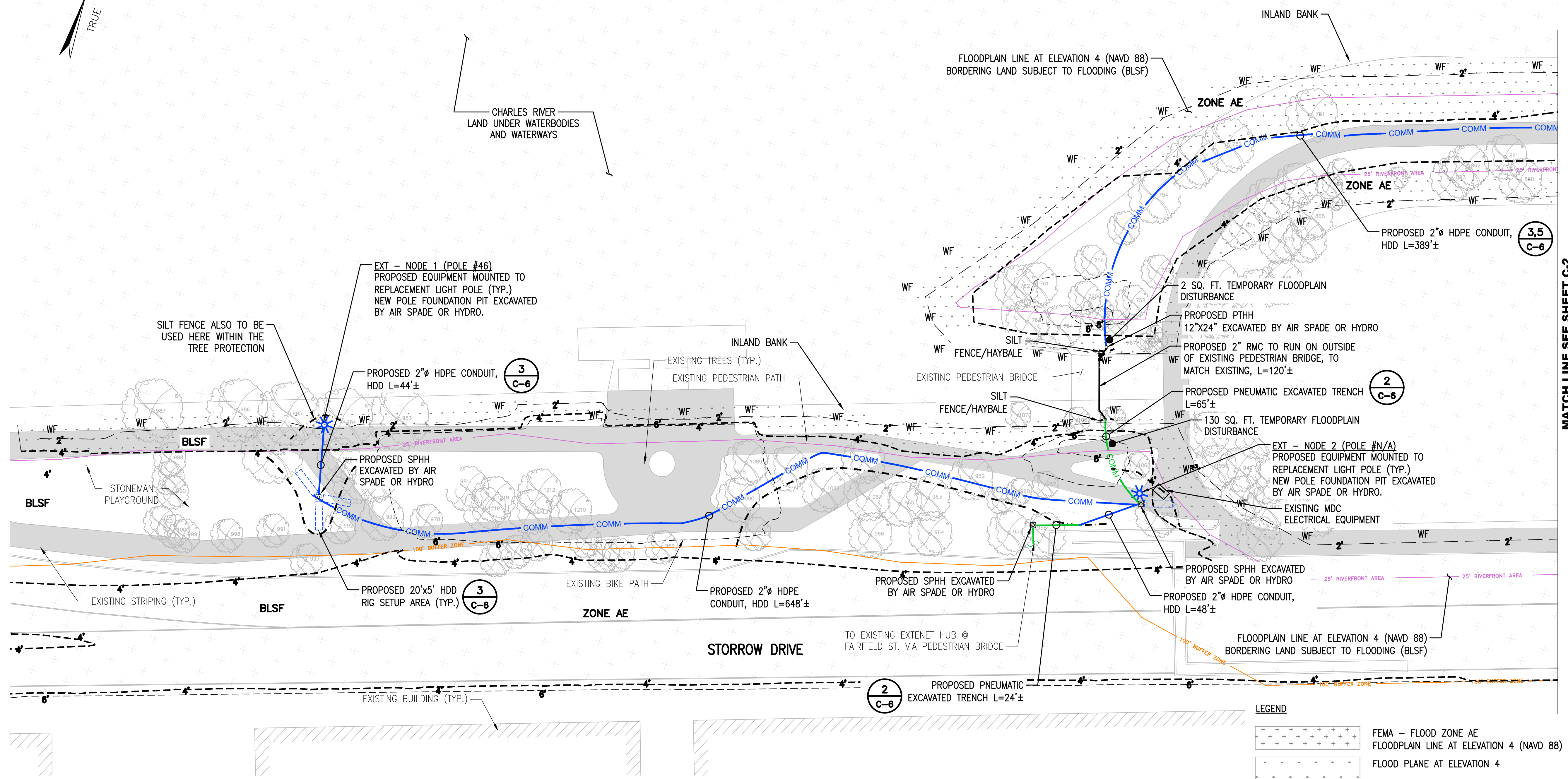
STORROW DRIVE
 BOSTON, MA 02114

SHEET NAME

SITE PLAN
 SHEET 1

SHEET NUMBER

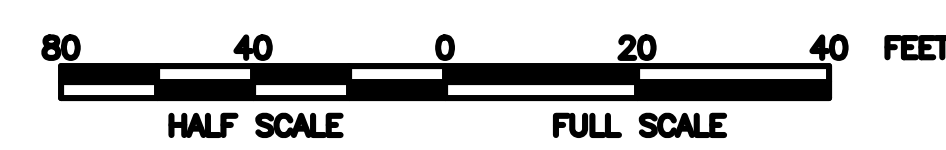
C-1
CONSTRUCTION



MATCH LINE SEE SHEET C-2

- NOTES:**
- PROPOSED TRENCH LOCATIONS AND EXCAVATION METHODS SHOWN ARE BASED ON VARIOUS SITE WALKS WITH OWNER AND CLIENT REPRESENTATIVES. OWNER AND CERTIFIED ARBORIST, AND DCR ARBORIST SHALL APPROVE ALL TRENCHING METHODS AND LOCATIONS PRIOR TO EXCAVATION.
 - EXISTING TREES SHOWN BASED ON GOOGLE EARTH KMZ FILE PROVIDED BY OWNER.
 - CONTRACTOR SHALL NOT SAW-CUT NEW ASPHALT PAVEMENT ALONG DR. PAUL DUDLEY WHITE BIKE PATH (INSTALLED LATE 2015).
 - SEE DRAWING C-8 FOR TYPICAL TRENCH DETAILS.
 - WETLAND RESOURCE AREAS FIELD VERIFIED BY LUCAS ENVIRONMENTAL, LLC ON APRIL 25, 2019

1
C-1 LOCATION 1
 SCALE: 1" = 40' FULL SCALE (22"x34")
 1/2" = 40' HALF SCALE (11"x17")

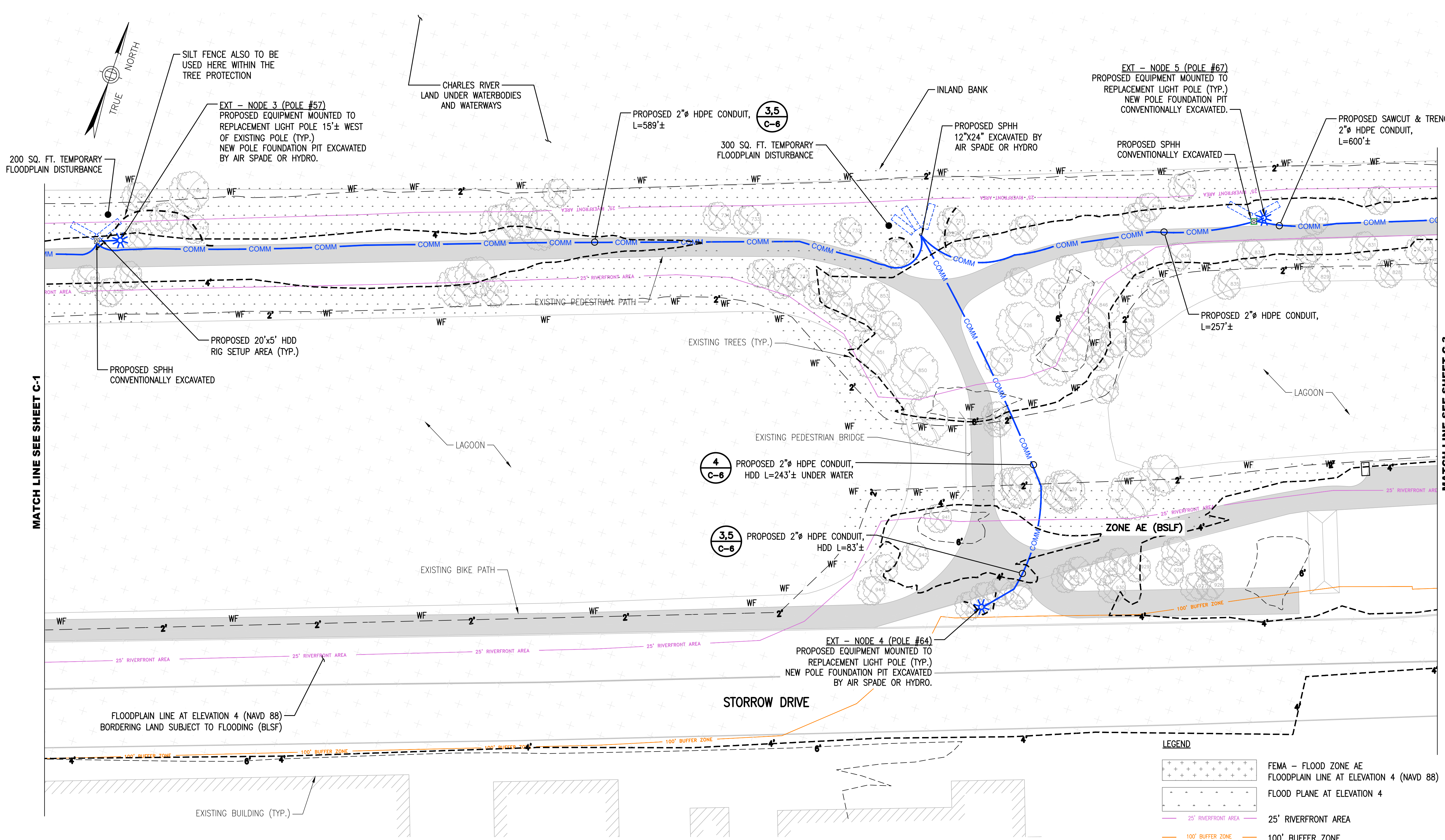


ABBREVIATIONS

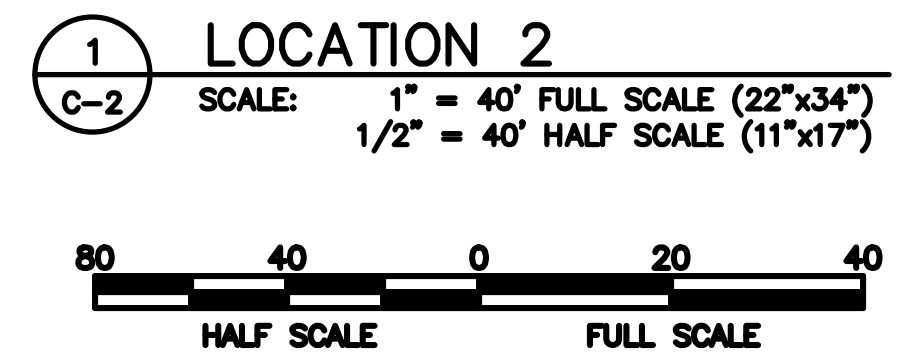
BLSF	BORDERING LAND SUBJECT TO FLOODING
SPHH	SPLICE HANDHOLE
PTHH	PASS-THRU HANDHOLE
FCC	FLEXIBLE CORRUGATED CONDUIT
RC	RIGID CONDUIT
RMC	RIGID METAL CONDUIT
WF	WETLAND FLAG

LEGEND

	FEMA - FLOOD ZONE AE
	FLOODPLAIN LINE AT ELEVATION 4 (NAVD 88)
	FLOOD PLANE AT ELEVATION 4
	25' RIVERFRONT AREA
	100' BUFFER ZONE
	WETLAND FLAGGING
	FIBER OPTIC CONDUIT - PNEUMATIC (AIR) OR HYDRO EXCAVATION
	FIBER OPTIC CONDUIT - CONVENTIONAL TRENCH
	FIBER OPTIC CONDUIT - HORIZONTAL DIRECT DRILLING (HDD)
	REPLACEMENT LIGHT POLE
	HANDHOLE
	25'x6' HDD RIG SURFACE SETUP AREA (NO DIGGING)



- NOTES:**
1. PROPOSED TRENCH LOCATIONS AND EXCAVATION METHODS SHOWN ARE BASED ON VARIOUS SITE WALKS WITH OWNER AND CLIENT REPRESENTATIVES. OWNER AND CERTIFIED ARBORIST, AND DCR ARBORIST SHALL APPROVE ALL TRENCHING METHODS AND LOCATIONS PRIOR TO EXCAVATION.
 2. EXISTING TREES SHOWN BASED ON GOOGLE EARTH KMZ FILE PROVIDED BY OWNER.
 3. CONTRACTOR SHALL NOT SAW-CUT NEW ASPHALT PAVEMENT ALONG DR. PAUL DUDLEY WHITE BIKE PATH (INSTALLED LATE 2015).
 4. SEE DRAWING C-8 FOR TYPICAL TRENCH DETAILS.
 5. WETLAND RESOURCE AREAS FIELD VERIFIED BY LUCAS ENVIRONMENTAL, LLC ON APRIL 25, 2019



ABBREVIATIONS

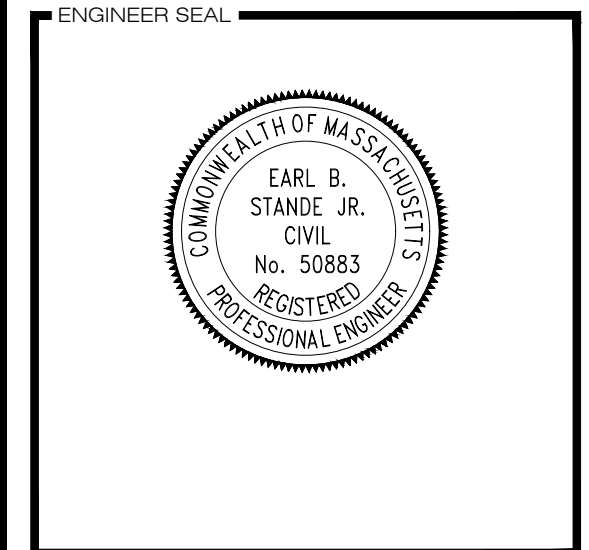
BLSF	BORDERING LAND SUBJECT TO FLOODING
SPHH	SPLICE HANDHOLE
PTHH	PASS-THRU HANDHOLE
FCC	FLEXIBLE CORRUGATED CONDUIT
RC	RIGID CONDUIT
RMC	RIGID METAL CONDUIT
WF	WETLAND FLAG

LEGEND

	FEMA - FLOOD ZONE AE
	FLOODPLAIN LINE AT ELEVATION 4 (NAVD 88)
	FLOOD PLANE AT ELEVATION 4
	25' RIVERFRONT AREA
	100' BUFFER ZONE
	WETLAND FLAGGING
	FIBER OPTIC CONDUIT - PNEUMATIC (AIR) OR HYDRO EXCAVATION
	FIBER OPTIC CONDUIT - CONVENTIONAL TRENCH
	FIBER OPTIC CONDUIT - HORIZONTAL DIRECT DRILLING (HDD)
	TREE PROTECTION ZONE (SEE DETAILS C-6)
	REPLACEMENT LIGHT POLE
	HANDHOLE
	25'x6' HDD RIG SURFACE SETUP AREA (NO DIGGING)



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 Jacobs Engineering Group, Inc.
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 FAX (617) 242-9824



APPROVALS

LANDLORD _____

LEASING _____

R.F. _____

ZONING _____

CONSTRUCTION _____

A & E _____

PROJECT NO: EREX0000

DRAWN BY: JT

CHECKED BY: CAT

DESIGN REVISIONS

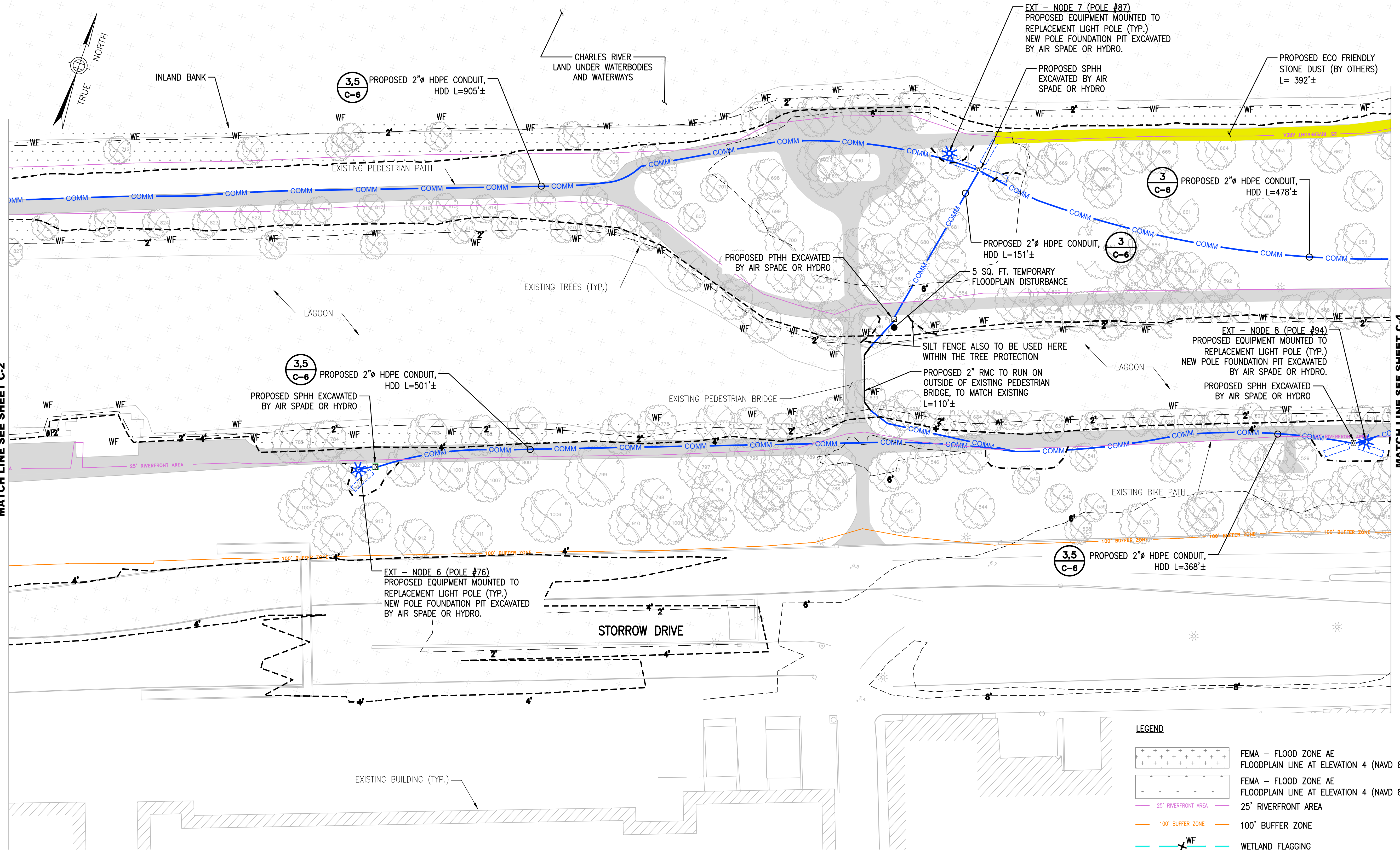
SUBMITTALS	
6	08/21/19 RENAME 100' BUFFER ZONE
5	07/08/19 REVISED PER COMMENTS
4	06/06/19 REVISED PER COMMENTS
3	05/15/19 WETLAND FLAGGING
2	02/28/19 PER DCR COMMENTS
1	01/09/19 REVISED PER COMMENTS
0	10/23/18 FOR EXTENET REVIEW

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SITE NAME
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 STORROW DRIVE
 BOSTON, MA 02114

SHEET NAME
 SITE PLAN
 SHEET 2

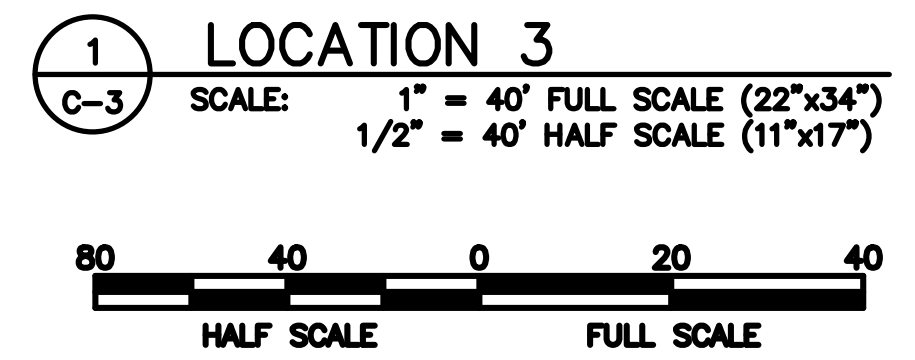
SHEET NUMBER
C-2
CONSTRUCTION



MATCH LINE SEE SHEET C-2

MATCH LINE SEE SHEET C-4

- NOTES:**
1. PROPOSED TRENCH LOCATIONS AND EXCAVATION METHODS SHOWN ARE BASED ON VARIOUS SITE WALKS WITH OWNER AND CLIENT REPRESENTATIVES. OWNER AND CERTIFIED ARBORIST, AND DCR ARBORIST SHALL APPROVE ALL TRENCHING METHODS AND LOCATIONS PRIOR TO EXCAVATION.
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 4. SEE DRAWING C-8 FOR TYPICAL TRENCH DETAILS.
 5. WETLAND RESOURCE AREAS FIELD VERIFIED BY LUCAS ENVIRONMENTAL, LLC ON APRIL 25, 2019



ABBREVIATIONS

BLSF	BORDERING LAND SUBJECT TO FLOODING
SPHH	SPLICE HANDHOLE
PTHH	PASS-THRU HANDHOLE
FCC	FLEXIBLE CORRUGATED CONDUIT
RC	RIGID CONDUIT
RMC	RIGID METAL CONDUIT
WF	WETLAND FLAG

LEGEND

	FEMA - FLOOD ZONE AE FLOODPLAIN LINE AT ELEVATION 4 (NAVD 88)
	25' RIVERFRONT AREA
	100' BUFFER ZONE
	WETLAND FLAGGING
	FIBER OPTIC CONDUIT - PNEUMATIC (AIR) OR HYDRO EXCAVATION
	FIBER OPTIC CONDUIT - CONVENTIONAL TRENCH
	FIBER OPTIC CONDUIT - HORIZONTAL DIRECT DRILLING (HDD)
	TREE PROTECTION ZONE (SEE DETAILS C-6)
	REPLACEMENT LIGHT POLE
	HANDHOLE
	25'x6' HDD RIG SURFACE SETUP AREA (NO DIGGING)

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FAX (617) 242-9824

ENGINEER SEAL

APPROVALS

LANDLORD _____

LEASING _____

R.F. _____

ZONING _____

CONSTRUCTION _____

A & E _____

PROJECT NO: EREX0000

DRAWN BY: JT

CHECKED BY: CAT

DESIGN REVISIONS

NO.	DATE	REVISION
6	08/21/19	RENAME 100' BUFFER ZONE
5	07/08/19	REVISED PER COMMENTS
4	06/06/19	REVISED PER COMMENTS
3	05/15/19	WETLAND FLAGGING
2	02/28/19	PER DCR COMMENTS
1	01/09/19	REVISED PER COMMENTS
0	10/23/18	FOR EXTENET REVIEW

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SITE NAME

ESPLANADE oDAS

STORROW DRIVE
BOSTON, MA 02114

SHEET NAME

SITE PLAN
SHEET 3

SHEET NUMBER

C-3
CONSTRUCTION

APPROVALS

LANDLORD _____
 LEASING _____
 R.F. _____
 ZONING _____
 CONSTRUCTION _____
 A & E _____

PROJECT NO: EREX0000

DRAWN BY: JT

CHECKED BY: CAT

DESIGN REVISIONS

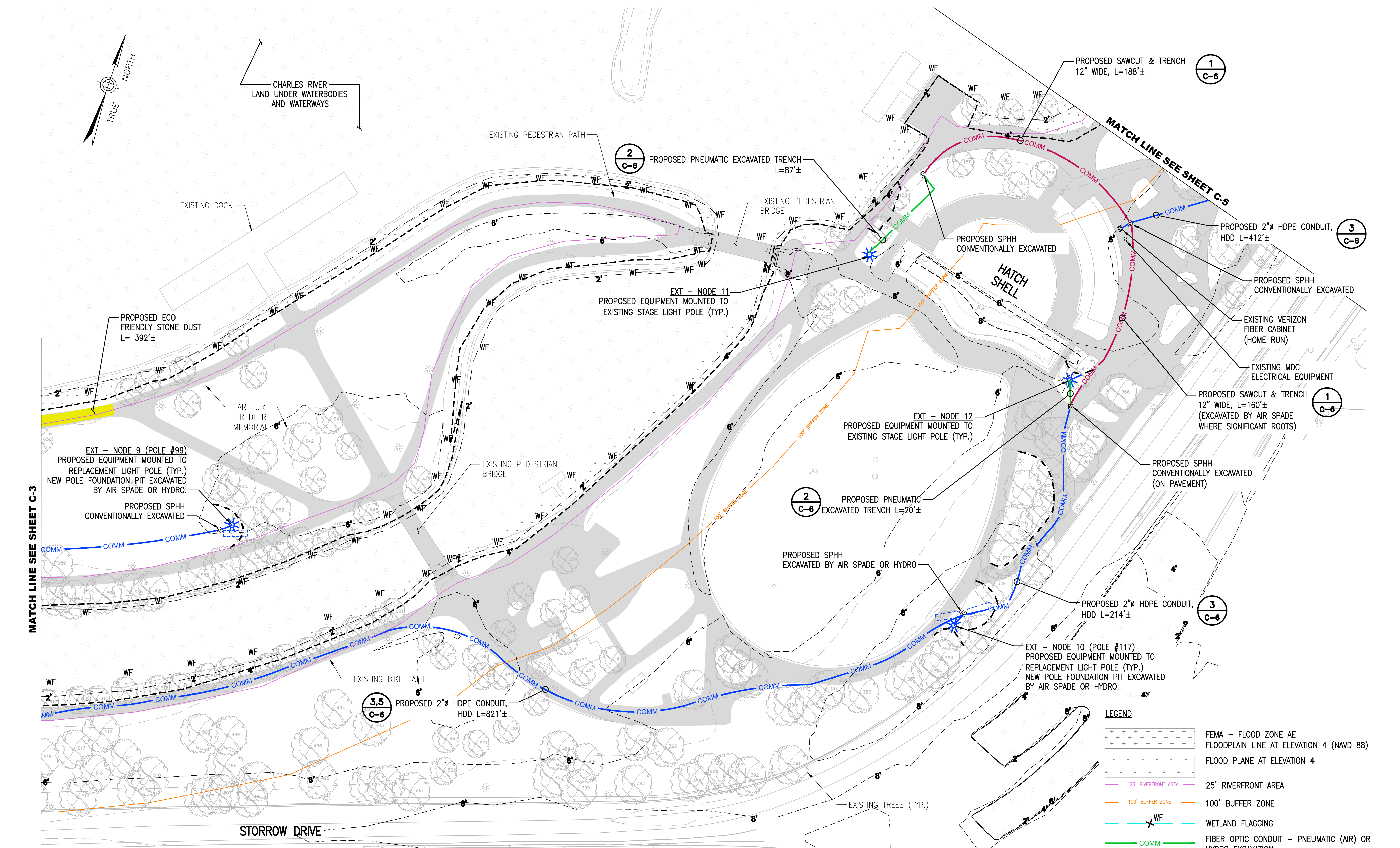
NO.	DATE	REVISION
6	08/21/19	RENAME 100' BUFFER ZONE
5	07/08/19	REVISED PER COMMENTS
4	06/06/19	REVISED PER COMMENTS
3	05/15/19	WETLAND FLAGGING
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SITE NAME
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 BOSTON, MA 02114

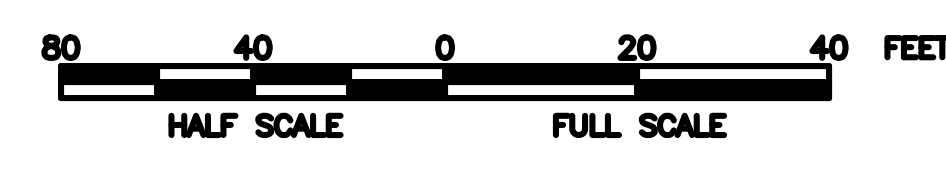
SHEET NAME
 SITE PLAN
 SHEET 4

SHEET NUMBER
C-4
CONSTRUCTION



- NOTES:**
1. PROPOSED TRENCH LOCATIONS AND EXCAVATION METHODS SHOWN ARE BASED ON VARIOUS SITE WALKS WITH OWNER AND CLIENT REPRESENTATIVES. OWNER AND CERTIFIED ARBORIST, AND DCR ARBORIST SHALL APPROVE ALL TRENCHING METHODS AND LOCATIONS PRIOR TO EXCAVATION.
 2. EXISTING TREES SHOWN BASED ON GOOGLE EARTH KMZ FILE PROVIDED BY OWNER.
 3. CONTRACTOR SHALL NOT SAW-CUT NEW ASPHALT PAVEMENT ALONG DR. PAUL DUDLEY WHITE BIKE PATH (INSTALLED LATE 2015).
 4. SEE DRAWING C-8 FOR TYPICAL TRENCH DETAILS.
 5. WETLAND RESOURCE AREAS FIELD VERIFIED BY LUCAS ENVIRONMENTAL, LLC ON APRIL 25, 2019

1
C-4 **LOCATION 4**
 SCALE: 1" = 40' FULL SCALE (22"x34")
 1/2" = 40' HALF SCALE (11"x17")

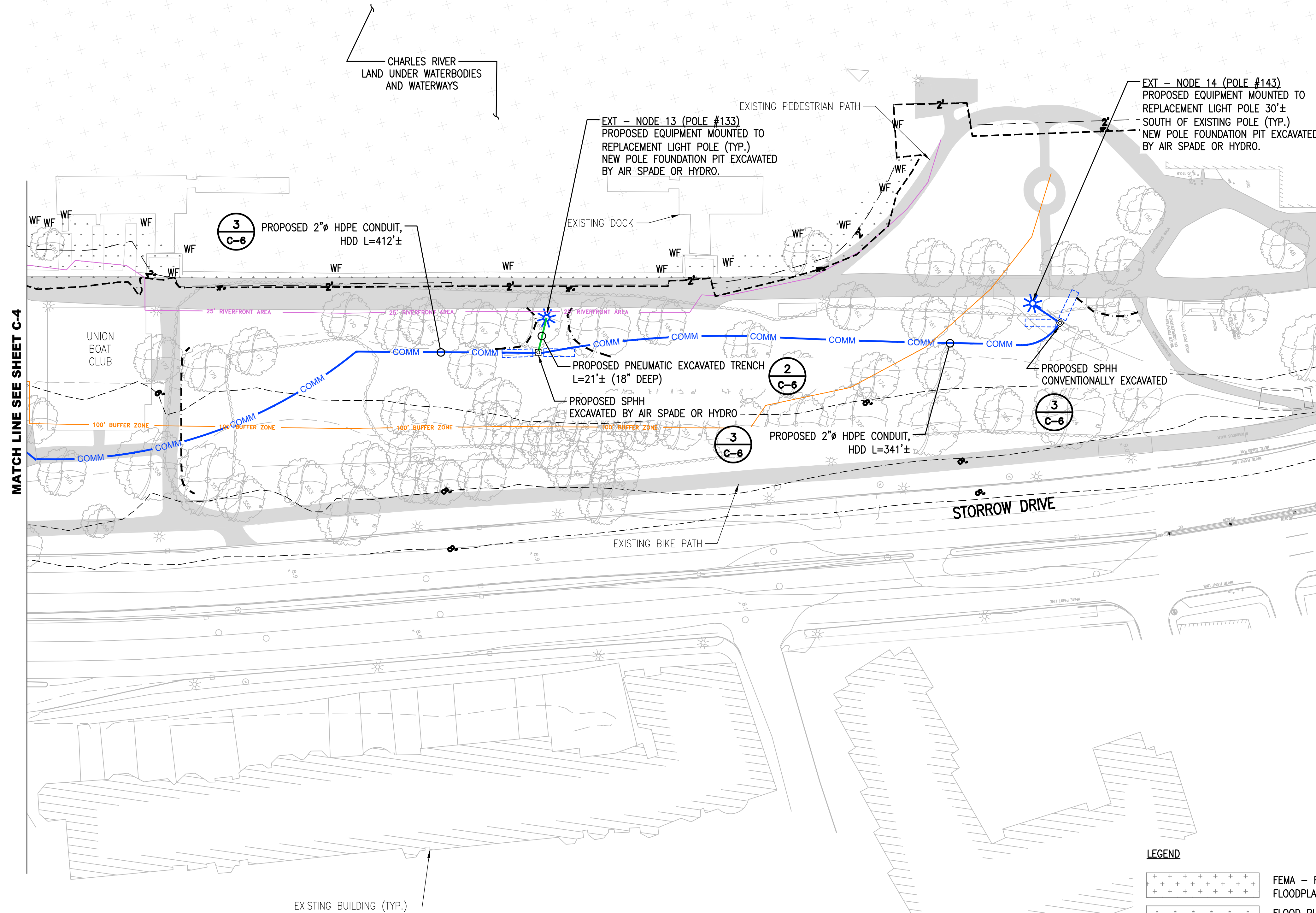
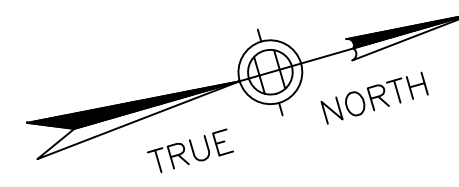


ABBREVIATIONS

BLSF	BORDERING LAND SUBJECT TO FLOODING
SPHH	SPLICE HANDHOLE
PTHH	PASS-THRU HANDHOLE
FCC	FLEXIBLE CORRUGATED CONDUIT
RC	RIGID CONDUIT
RMC	RIGID METAL CONDUIT
WF	WETLAND FLAG

LEGEND

	FEMA - FLOOD ZONE AE
	FLOODPLAIN LINE AT ELEVATION 4 (NAVD 88)
	FLOOD PLANE AT ELEVATION 4
	25' RIVERFRONT AREA
	100' BUFFER ZONE
	WF WETLAND FLAGGING
	FIBER OPTIC CONDUIT - PNEUMATIC (AIR) OR HYDRO EXCAVATION
	FIBER OPTIC CONDUIT - CONVENTIONAL TRENCH
	FIBER OPTIC CONDUIT - HORIZONTAL DIRECT DRILLING (HDD)
	TREE PROTECTION ZONE (SEE DETAILS C-6)
	REPLACEMENT LIGHT POLE
	HANDHOLE
	25'x6' HDD RIG SURFACE SETUP AREA (NO DIGGING)

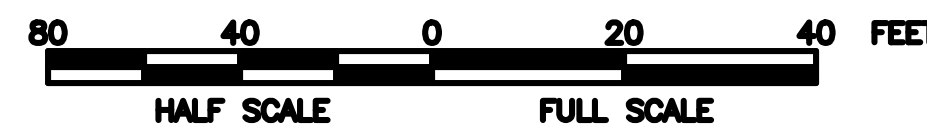


MATCH LINE SEE SHEET C-4

NOTES:

1. PROPOSED TRENCH LOCATIONS AND EXCAVATION METHODS SHOWN ARE BASED ON VARIOUS SITE WALKS WITH OWNER AND CLIENT REPRESENTATIVES. OWNER AND CERTIFIED ARBORIST, AND DCR ARBORIST SHALL APPROVE ALL TRENCHING METHODS AND LOCATIONS PRIOR TO EXCAVATION.
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3. CONTRACTOR SHALL NOT SAW-CUT NEW ASPHALT PAVEMENT ALONG DR. PAUL DUDLEY WHITE BIKE PATH (INSTALLED LATE 2015).
4. SEE DRAWING C-8 FOR TYPICAL TRENCH DETAILS.
5. WETLAND RESOURCE AREAS FIELD VERIFIED BY LUCAS ENVIRONMENTAL, LLC ON APRIL 25, 2019

1
C-5 **LOCATION 5**
SCALE: 1" = 40' FULL SCALE (22"x34")
1/2" = 40' HALF SCALE (11"x17")



ABBREVIATIONS

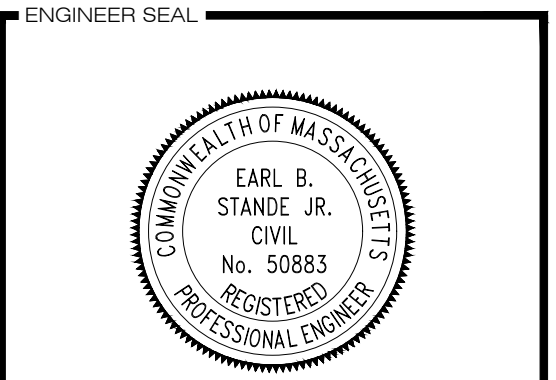
- BLSF BORDERING LAND SUBJECT TO FLOODING
- SPHH SPLICE HANDHOLE
- PTHH PASS-THRU HANDHOLE
- FCC FLEXIBLE CORRUGATED CONDUIT
- RC RIGID CONDUIT
- RMC RIGID METAL CONDUIT
- WF WETLAND FLAG

LEGEND

- FEMA -- FLOOD ZONE AE
- FLOOD PLANE AT ELEVATION 4
- 25' RIVERFRONT AREA
- 100' BUFFER ZONE
- WETLAND FLAGGING
- FIBER OPTIC CONDUIT -- PNEUMATIC (AIR) OR HYDRO EXCAVATION
- FIBER OPTIC CONDUIT -- CONVENTIONAL TRENCH
- FIBER OPTIC CONDUIT -- HORIZONTAL DIRECT DRILLING (HDD)
- TREE PROTECTION ZONE (SEE DETAILS C-6)
- REPLACEMENT LIGHT POLE
- HANDHOLE
- 25'x6' HDD RIG SURFACE SETUP AREA (NO DIGGING)



PREPARED BY
JACOBS
Jacobs Engineering Group, Inc.
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5TH FLOOR
BOSTON, MA 02116
TEL (617) 242-9222
FAX (617) 242-9824



APPROVALS

LANDLORD _____

LEASING _____

R.F. _____

ZONING _____

CONSTRUCTION _____

A & E _____

PROJECT NO: EREX0000

DRAWN BY: JT

CHECKED BY: CAT

DESIGN REVISIONS

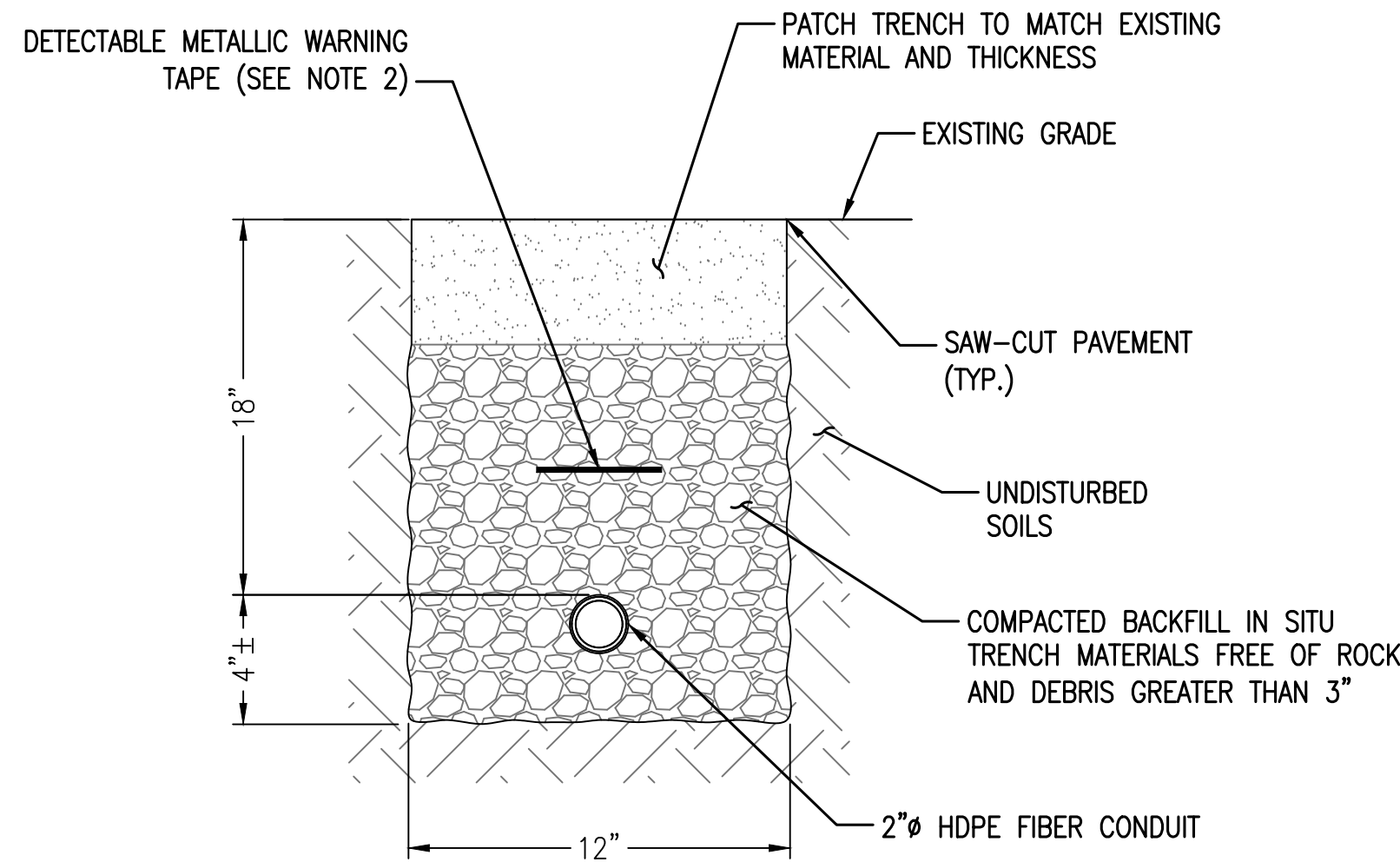
NO.	DATE	REVISION
6	08/21/19	RENAME 100' BUFFER ZONE
5	07/08/19	REVISED PER COMMENTS
4	06/06/19	REVISED PER COMMENTS
3	05/15/19	WETLAND FLAGGING
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SITE NAME
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STORROW DRIVE
BOSTON, MA 02114

SHEET NAME
SITE PLAN
SHEET 5

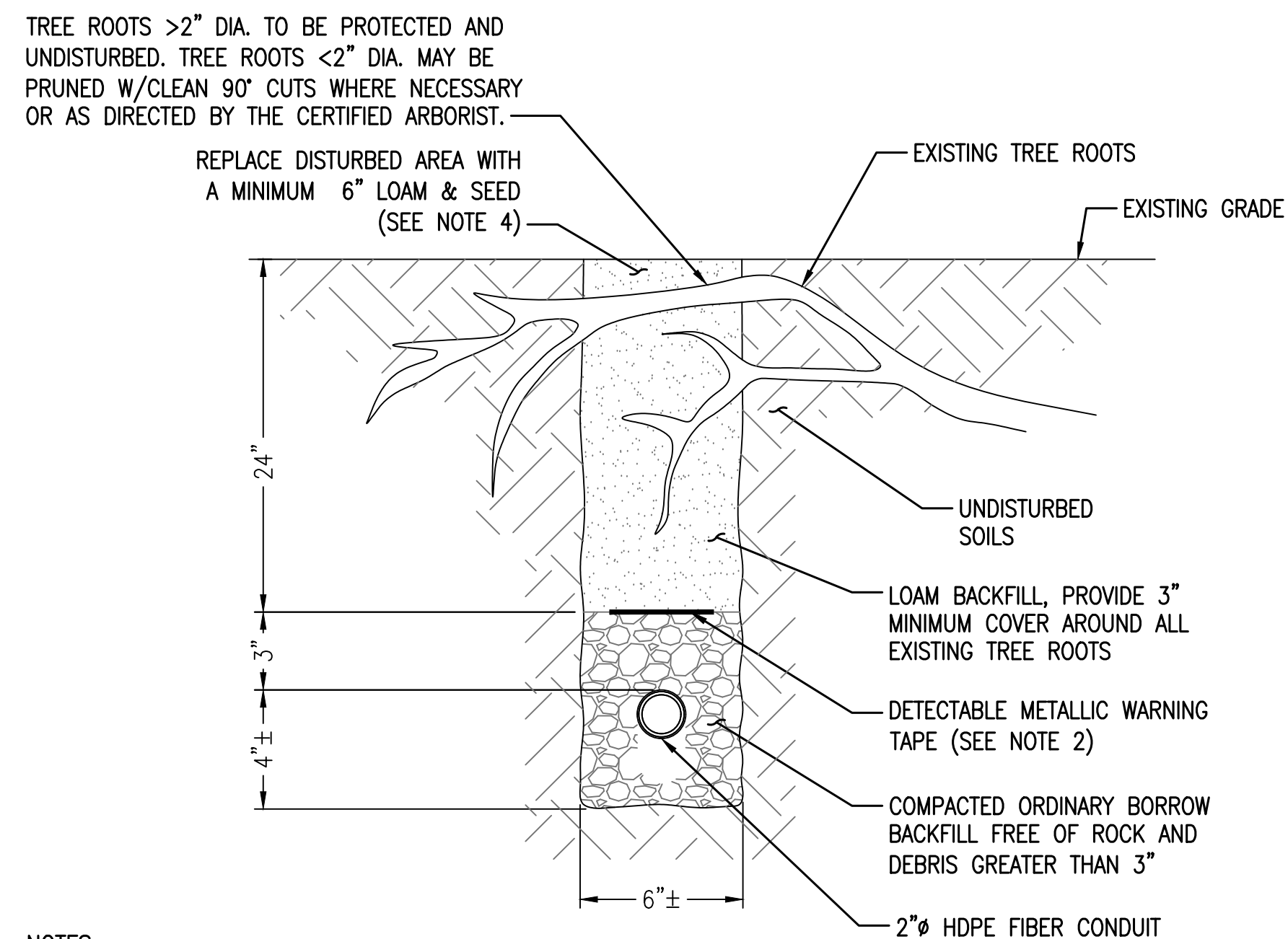
SHEET NUMBER
C-5
CONSTRUCTION



NOTES:

- CONVENTIONAL TRENCHING METHODS TO OCCUR ONLY AT LOCATIONS WHERE EXISTING TREE ROOTS ARE NOT ENCOUNTERED, AS APPROVED BY OWNER AND CERTIFIED ARBORIST.
- WARNING TAPE SHALL BE PER CURRENT APWA STANDARDS.
- CONTRACTOR SHALL REPAIR ALL TRENCHING WITH PAVEMENT MATERIALS AND THICKNESS TO MATCH EXISTING CONDITIONS. TACK-COAT ALL EDGES.
- TRENCHING THROUGH PAVED AREAS SHALL BE SAW-CUT.
- CONTRACTOR SHALL NOT SAW-CUT NEW ASPHALT PAVEMENT ALONG DR. PAUL DUDLEY WHITE BIKE PATH (INSTALLED LATE 2015).

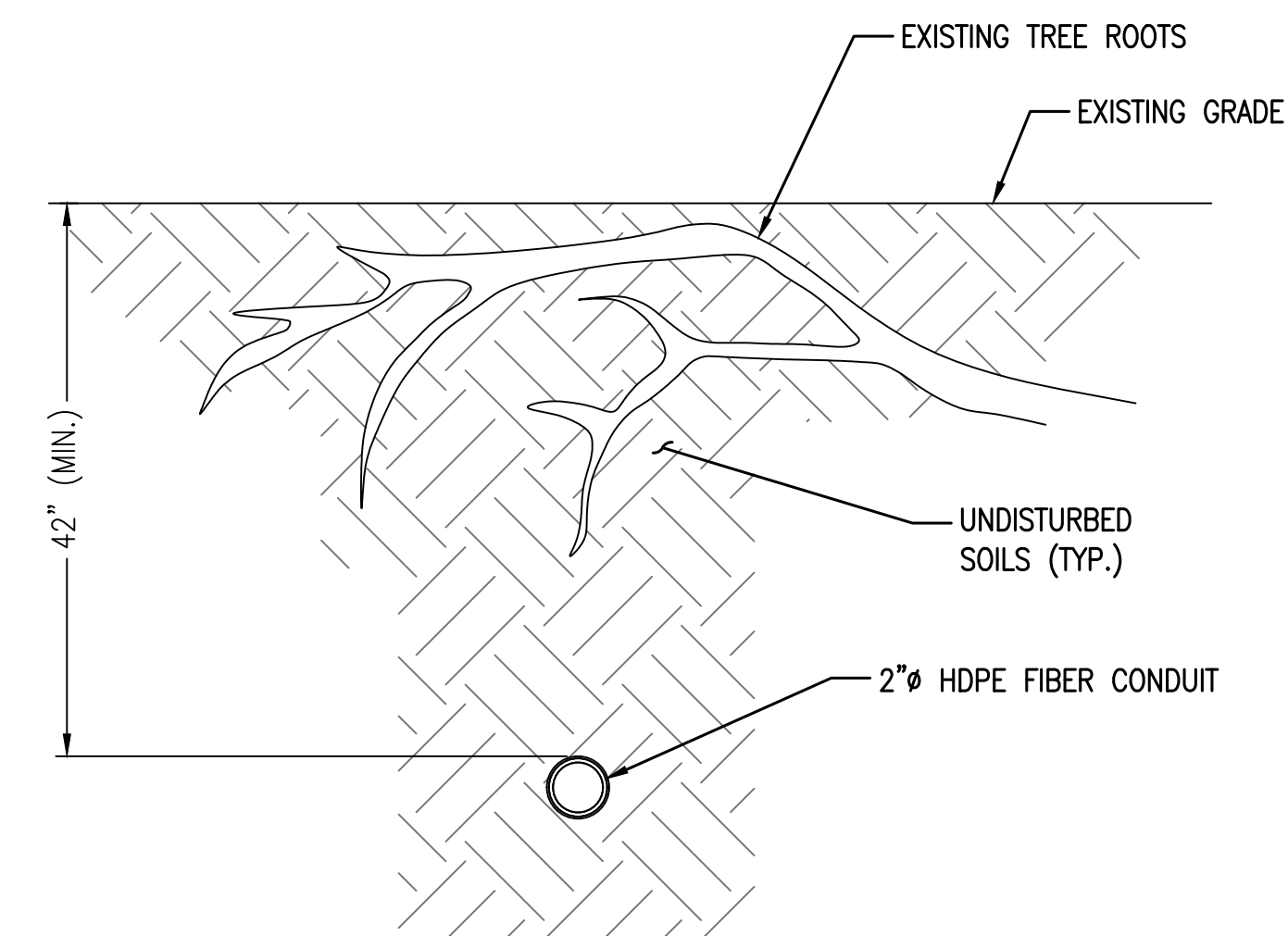
1 CONVENTIONAL TRENCH DETAIL
C-6 NOT TO SCALE



NOTES:

- HYDRO & PNEUMATIC EXCAVATION TRENCHING METHODS TO OCCUR AT LOCATIONS WHERE EXISTING TREE ROOTS ARE ENCOUNTERED, AS IDENTIFIED BY OWNER AND CERTIFIED ARBORIST, AND DCR ARBORIST. ALL EXCAVATION OPERATIONS AT EXISTING TREE ROOT LOCATIONS TO BE 100% MONITORED BY APPROVED CERTIFIED ARBORIST. PHOTOGRAPHIC DOCUMENTATION OF SUCH EXCAVATIONS SHALL BE PROVIDED ON DAILY BASIS.
- WARNING TAPE SHALL BE PER CURRENT APWA STANDARDS.
- HDPE CONDUIT MANUFACTURER AND SHEATHING CONFIGURATION SUBJECT TO CHANGE, HOWEVER SHALL NOT EXCEED 2-1/2" CONDUIT SIZE.
- LOAM AND APPROVED SEEDING OF UPPER 6" OF DISTURBED AREA SHALL BE IN ACCORDANCE WITH MASSDOT SPECIFICATIONS, SECTIONS 751 AND 765.
- SPECIFICATION OF FILL MATERIAL AND SEED MIX MUST BE SUBMITTED TO OWNER FOR APPROVAL PRIOR TO USE.

2 TYPICAL TRENCH DETAIL FOR PNEUMATIC (AIR-SPADE) & HYDRO EXCAVATION
C-6 NOT TO SCALE



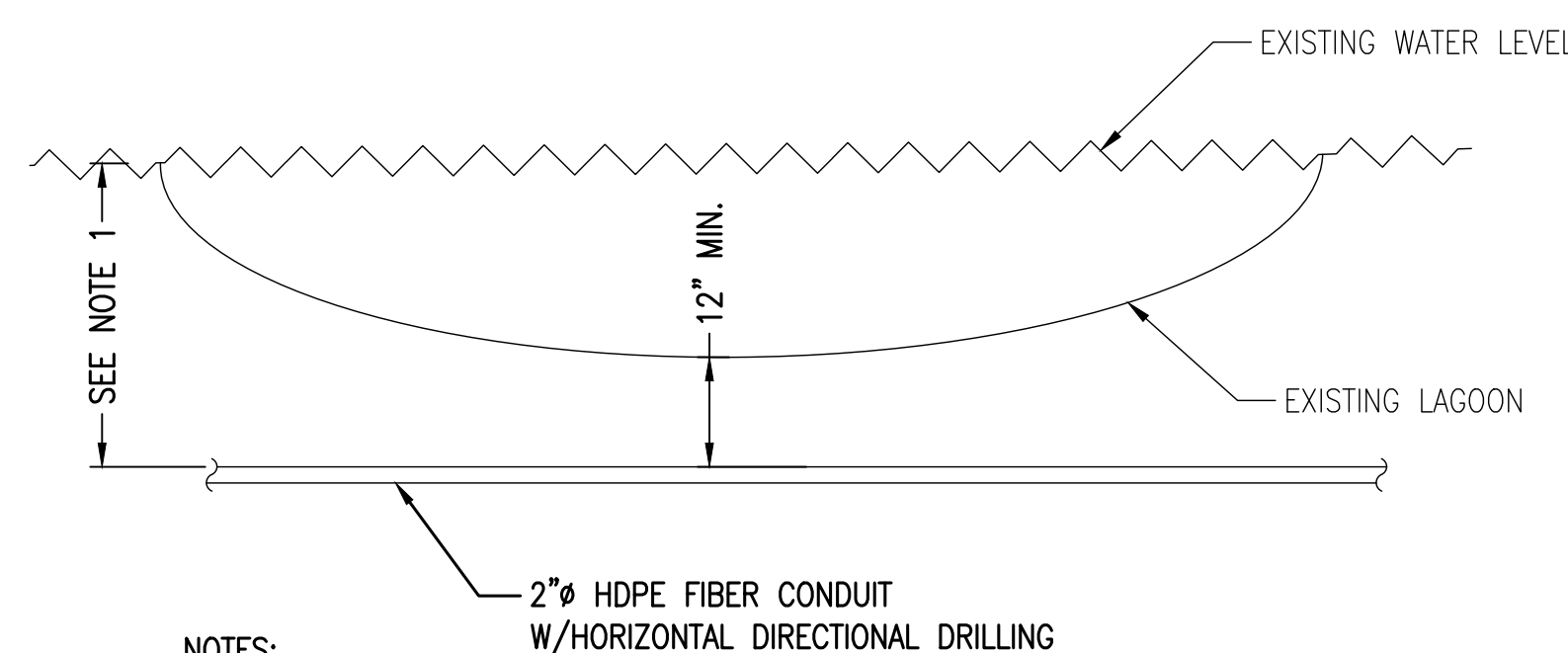
NOTES:

- HDD TO OCCUR AT OWNER AND CERTIFIED ARBORIST APPROVED LOCATIONS. ALL HDD OPERATIONS AT EXISTING TREE ROOT LOCATIONS TO BE 100% MONITORED BY APPROVED CERTIFIED ARBORIST TO ENSURE MINIMUM DEPTH OF 42" AND HORIZONTAL POSITIONING OF DRILL OCCURS IN APPROVED LOCATIONS.
- NO HDD SHALL OCCUR DIRECTLY UNDER ANY TREE TRUNKS WHERE TAP ROOTS COULD EXIST.
- PLANS BASED ON THE USE OF A VERMEER D20x22 S3 NAVIGATOR HORIZONTAL DIRECTIONAL DRILL (17' LONG x 4' WIDE x 6.5' TALL). EXACT MAKE AND MODEL OF MACHINE TO BE APPROVED BY OWNER PRIOR TO MOBILIZATION TO THE SITE FOR CONSTRUCTION.
- ALL DRILL RIG SETUP LOCATIONS TO BE FIELD APPROVED BY OWNER AND CERTIFIED ARBORIST PRIOR TO COMMENCING DRILLING ACTIVITIES.

3 HORIZONTAL DIRECTIONAL DRILLING (HDD) DETAIL
C-6 NOT TO SCALE

GENERAL EXCAVATION NOTES:

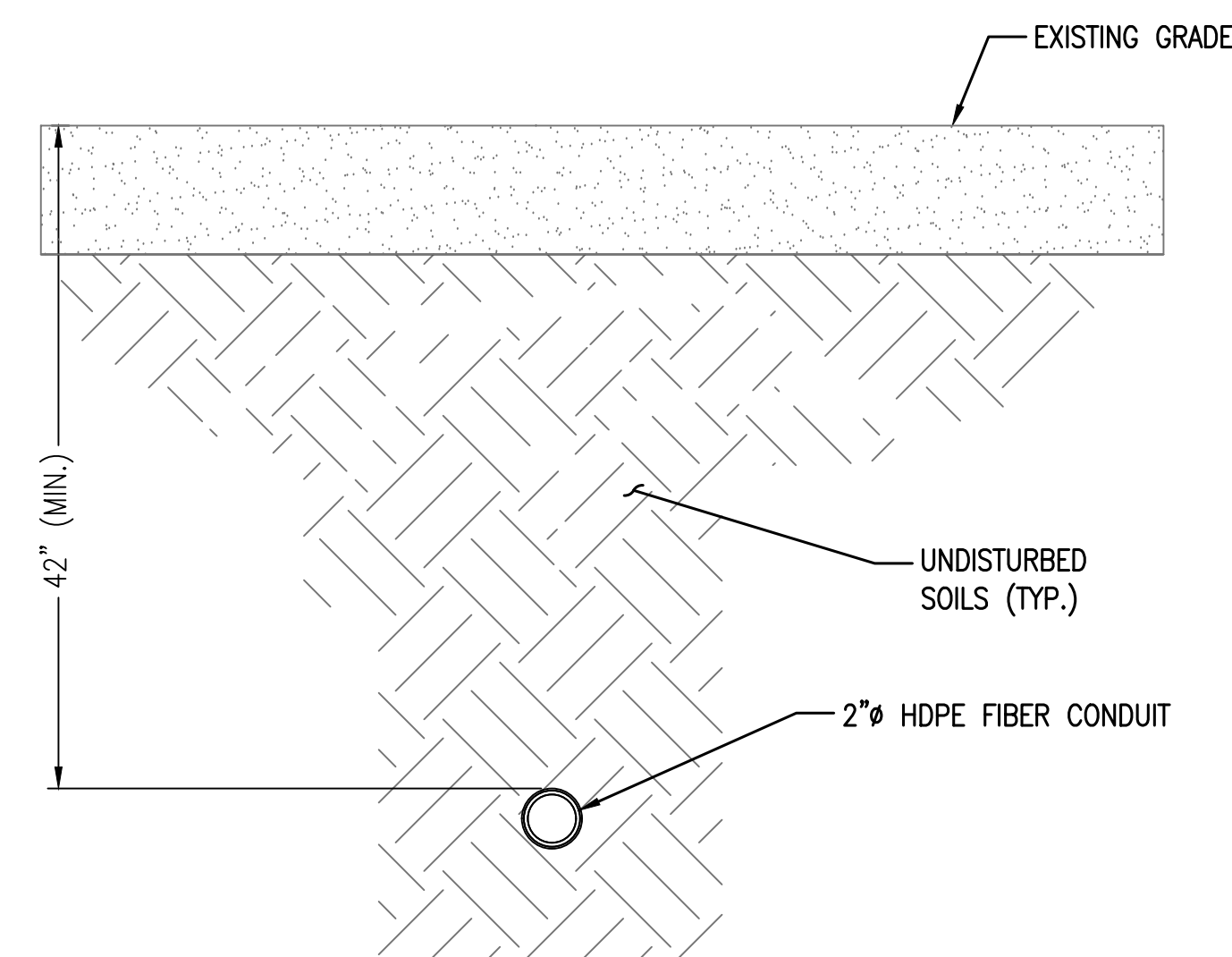
- EXTENET SYSTEMS (EXTENET) SHALL IMPLEMENT A TREE PROTECTION PROGRAM TO ENSURE THAT PROJECT-AREA TREES ARE NOT ADVERSELY AFFECTED BY THE PROPOSED WORK. TREE PROTECTION MEASURES ARE INDICATED ON THE PLANS. TREE PROTECTION DETAILS ARE SHOWN ON SHEET C-10.
- THE TREE PROTECTION PROGRAM (THE PROGRAM) SHALL BE OVERSEEN BY:
 - MASSACHUSETTS CERTIFIED ARBORIST (THE ARBORIST) EMPLOYED BY EXTENET. PRIOR TO CONSTRUCTION, THE QUALIFICATIONS OF THE ARBORIST AND EVIDENCE OF CERTIFICATION SHALL BE SUBMITTED TO THE DCR FOR REVIEW AND APPROVAL.
- THE PROGRAM SHALL REQUIRE ALTERNATIVE CONSTRUCTION METHODS BE USED IN LOCATIONS WHERE EXISTING TREE ROOTS ARE ENCOUNTERED. ALTERNATIVE CONSTRUCTION METHODS MAY CONSIST OF HYDRAULIC EXCAVATION AND/OR PNEUMATIC EXCAVATION. WHEN ALTERNATIVE CONSTRUCTION METHODS ARE BEING USED, THE CERTIFIED ARBORIST SHALL BE PRESENT ON-SITE TO OBSERVE THE WORK, MAKE RECOMMENDATIONS TO MINIMIZE IMPACTS ON TREES, AND MAINTAIN A PHOTOGRAPHIC RECORD OF THE PROCESS.
- ALTERNATIVE CONSTRUCTION SHALL BE USED IN ALL LOCATIONS IDENTIFIED ON THE CONTRACT DRAWINGS. ALTERNATIVE CONSTRUCTION SHALL ALSO BE USED IN OTHER AREAS WHERE TREE ROOTS ARE ENCOUNTERED WITHIN THE EXCAVATION AREA, AS DIRECTED BY THE CERTIFIED ARBORIST OR THE DCR ARBORIST.
- DURING ALTERNATIVE CONSTRUCTION, APPROPRIATE CALIBRATION, OPERATION AND ADJUSTMENT OF THE EXCAVATION MACHINERY SHALL BE IMPLEMENTED TO AVOID DAMAGE TO TREE ROOTS, INCLUDING BUT NOT LIMITED TO PRESERVATION OF THE ROOT BARK. IF DAMAGE IS NOTED, THE EXCAVATION METHODS SHALL BE MODIFIED IN CONSULTATION WITH THE ARBORIST TO ADDRESS THE ISSUE. MODIFICATIONS MAY INCLUDE BUT ARE NOT LIMITED TO CHANGING THE EXCAVATION METHOD (E.G. FROM HYDRAULIC TO PNEUMATIC) OR CHANGING THE OPERATIONAL PARAMETERS (E.G. REDUCING PRESSURE OR CHANGING NOZZLE SIZE).
- UPON COMPLETION OF ALTERNATIVE CONSTRUCTION AND AFTER INSTALLATION OF CONDUIT, THE TRENCH SHALL BE BACKFILLED AS SHOWN ON THE CONTRACT DRAWINGS. A MINIMUM OFFSET OF 3" SHALL BE PROVIDED BETWEEN TREE ROOTS AND THE CONDUIT. BACK FILL WITHIN THE ROOT ZONE SHALL CONSIST OF LOAM PLACED TO MATCH THE ELEVATION OF THE ORIGINAL SOIL SURFACE. SOIL COMPACTION WITHIN THE ROOT ZONE SHALL BE THE MINIMUM NECESSARY TO AVOID FUTURE SUBSIDENCE. VIBRATORY COMPACTION SHALL NOT BE USED.



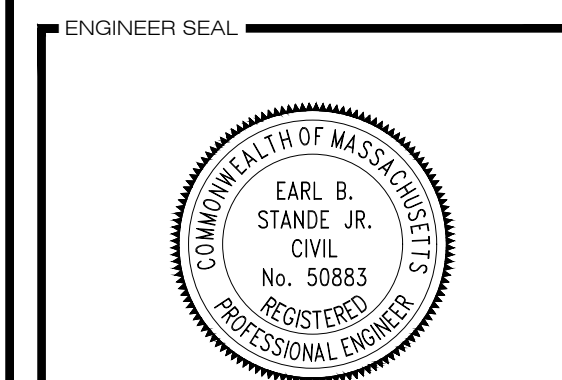
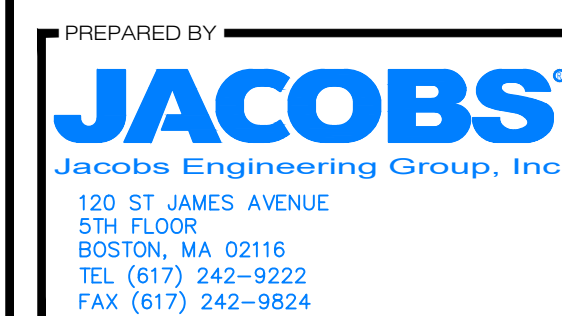
NOTES:

- CONTRACTOR TO DETERMINE DEPTH OF HARD SOIL BENEATH LAGOON FOR DIRECTIONAL DRILLING IN SOLID SOIL BELOW SILTY SOIL LAYER OF LAGOON BED.
- PLANS BASED ON THE USE OF A VERMEER D20x22 S3 NAVIGATOR HORIZONTAL DIRECTIONAL DRILL (17' LONG X 4' WIDE X 6.5' TALL). EXACT MAKE AND MODEL OF MACHINE TO BE APPROVED BY OWNER PRIOR TO MOBILIZATION TO THE SITE FOR CONSTRUCTION.
- ALL DRILL RIG SETUP LOCATIONS TO BE FIELD APPROVED BY OWNER AND INDEPENDENT CERTIFIED ARBORIST AND CONSERVATION COMMISSION AGENT IF REQUIRED PRIOR TO COMMENCING DRILLING ACTIVITIES.
- ANY DAMAGE TO LAGOON AND BRIDGE WILL BE REPAIRED BY THE CONTRACTOR TO THE SATISFACTION OF THE OWNER AT CONTRACTOR/APPLICANT'S

4 UNDER WATER DRILLING DETAIL
C-6 NOT TO SCALE



5 HORIZONTAL DIRECTIONAL DRILLING (HDD) PAVEMENT DETAIL
C-6 NOT TO SCALE



APPROVALS

LANDLORD _____

LEASING _____

R.F. _____

ZONING _____

CONSTRUCTION _____

A & E _____

PROJECT NO: EREX0000

DRAWN BY: JT

CHECKED BY: CAT

DESIGN REVISIONS

SUBMITTALS		
6	08/21/19	RENAME 100' BUFFER ZONE
5	07/08/19	REVISED PER COMMENTS
4	06/06/19	REVISED PER COMMENTS
3	05/15/19	WETLAND FLAGGING
2	02/28/19	PER DCR COMMENTS
1	01/09/19	REVISED PER COMMENTS
0	10/23/18	FOR EXTENET REVIEW

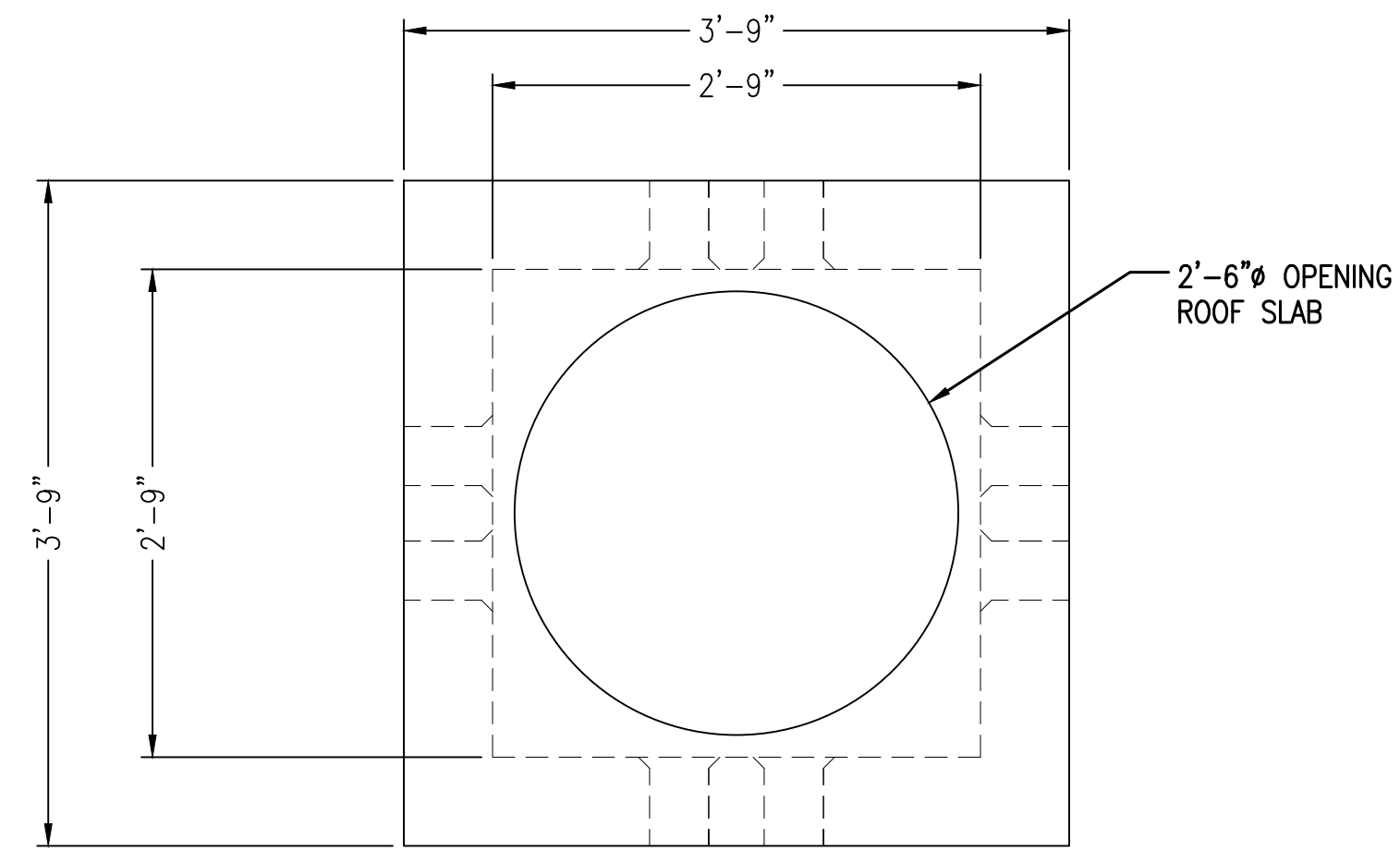
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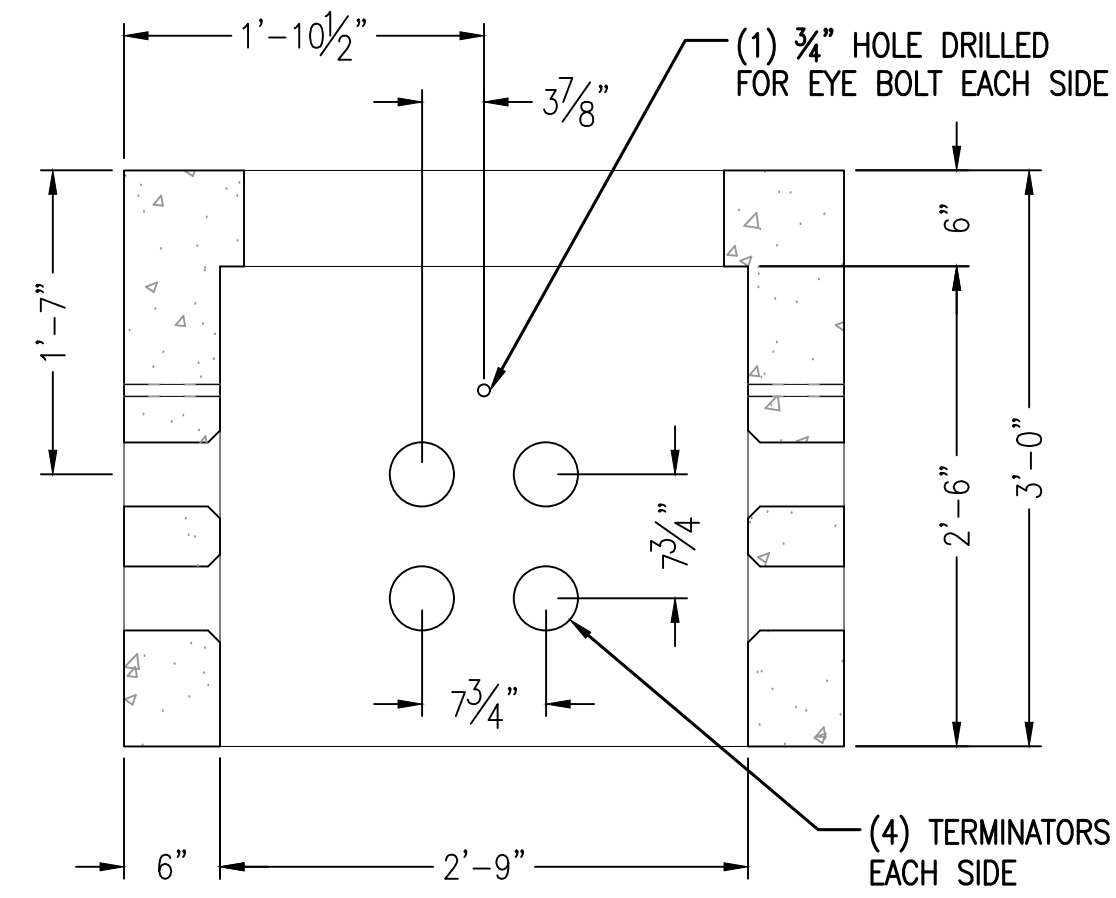
STORROW DRIVE
BOSTON, MA 02114

SHEET NAME
TRENCH DETAILS

SHEET NUMBER
C-6
CONSTRUCTION



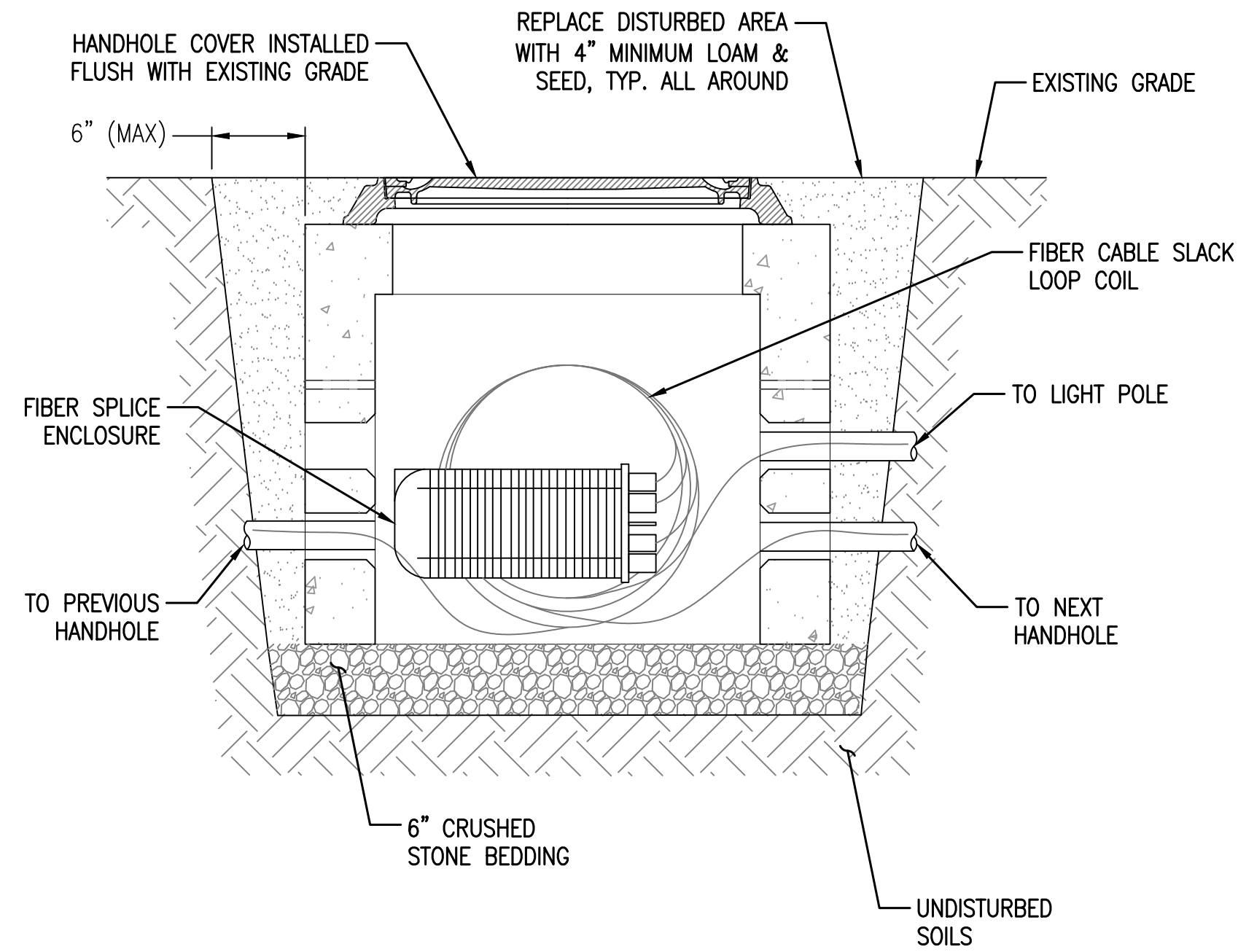
TOP



SIDE

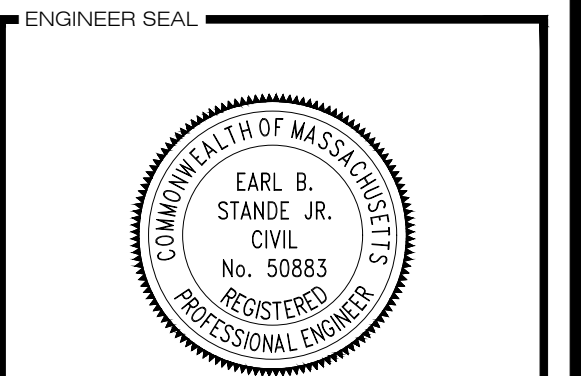
1
C-7

HANDHOLE DETAIL
NOT TO SCALE



NOTES:

1. ALL HANDHOLE STRUCTURES AND COVERS TO BE H-20 RATED. COVERS TO BE PAINTED MATTE BLACK IN SHOP.
2. SPLICE HANDHOLES REQUIRED WHERE A CARRIER NEEDS TO BRANCH OFF FROM MAIN FIBER TRUNK. PASS-THRU HANDHOLES ARE REQUIRED WHERE NO SPLICE CASES ARE REQUIRED.
3. SEE EXCAVATION DETAILS AND NOTED ON DRAWING C-9 FOR EXCAVATION METHODS REQUIRED FOR HANDHOLE INSTALLATION.



APPROVALS

LANDLORD _____

LEASING _____

R.F. _____

ZONING _____

CONSTRUCTION _____

A & E _____

PROJECT NO: EREX0000

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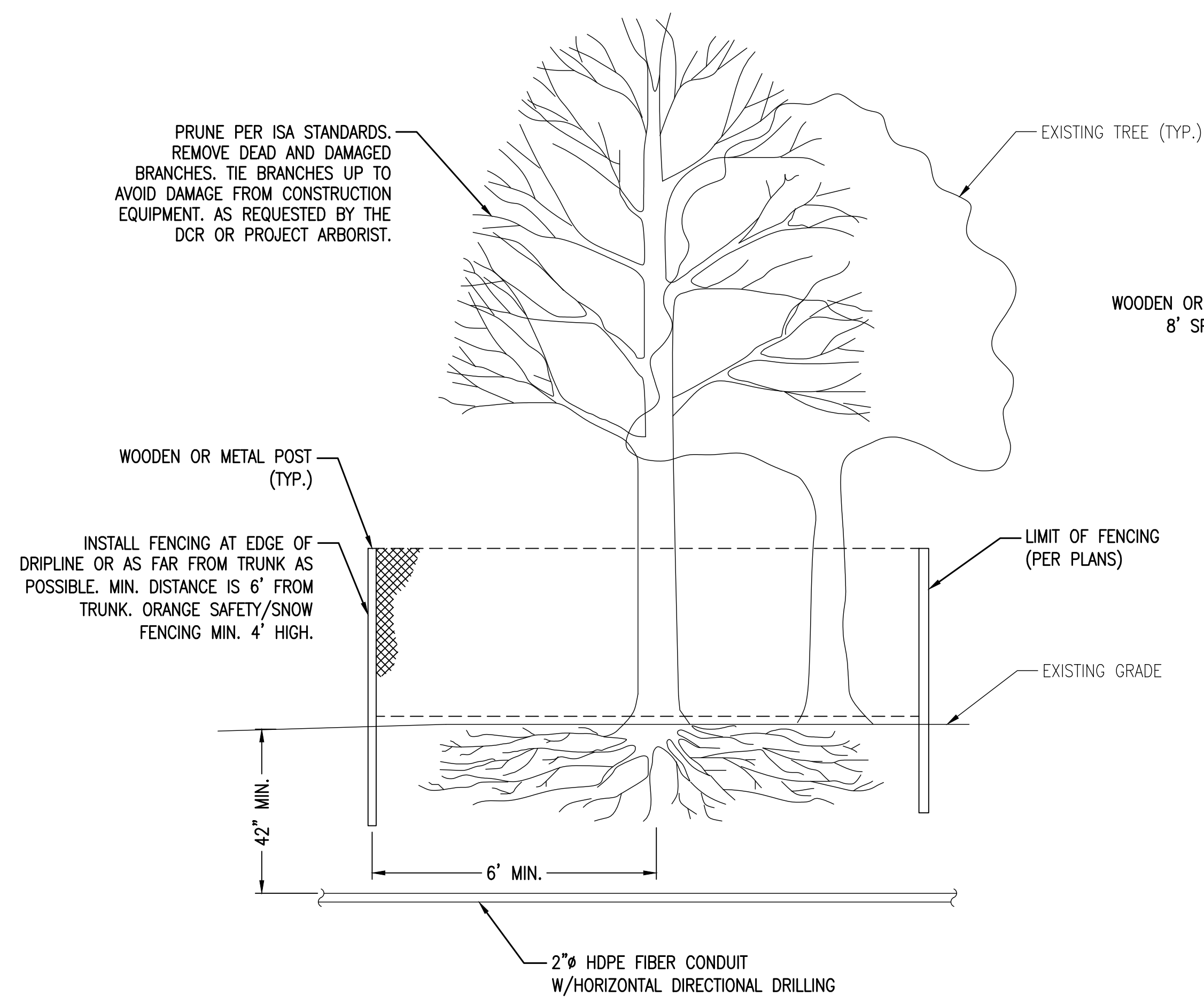
DESIGN REVISIONS		
SUBMITTALS		
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SITE NAME
ESPLANADE oDAS
STORROW DRIVE
BOSTON, MA 02114

SHEET NAME
HANDHOLE DETAILS

SHEET NUMBER
C-7
CONSTRUCTION



- NOTES:**
- WHERE A TREE PROTECTION LINE IS NOT CLEARLY SHOWN ON THE PLANS, "TREE PROTECTION AREA" IS DEFINED AS THE ROOT ZONE OF EXIST. TREES, WHICH AT A MINIMUM SHALL EXTEND TO 5 FT. BEYOND THE TREE DRIP LINE.
 - ALL TREE PROTECTION AREAS SHALL BE FIELD VERIFIED BY AN INDEPENDENT CERTIFIED ARBORIST AND APPROVED BY THE OWNER AS REQUIRED PRIOR TO ANY CONSTRUCTION MOBILIZATION ACTIVITIES.
 - EXISTING TREES TO REMAIN SHALL BE PROTECTED WITH TEMPORARY TREE PROTECTION FENCING. ERECT FENCE AS SHOWN ON THE PLANS AND AT ANY ADDITIONAL AREAS IDENTIFIED BY THE INDEPENDENT ARBORIST AND OWNER. ALL PROTECTION AREAS SHALL BE APPROVED BY OWNER PRIOR TO CONSTRUCTION.
 - CONTRACTOR SHALL NOT OPERATE VEHICLES, EQUIPMENT, OR STOCKPILE MATERIALS WITHIN THE TREE PROTECTION AREA UNLESS NOTED OTHERWISE. CONTRACTOR SHALL NOT STORE VEHICLES, EQUIPMENT, OR MATERIALS, OR DISPOSE OF ANY WASTE MATERIALS WITHIN THE TREE PROTECTION AREA UNLESS NOTED OTHERWISE.
 - DAMAGE TO EXISTING TREES CAUSED BY THE CONTRACTOR SHALL BE REPAIRED BY THE CONTRACTOR UNDER THE DIRECTION OF A CERTIFIED ARBORIST OR REPLACED WITH A SIMILAR OR APPROVED SIZE BY LANDSCAPE ARCHITECT AT THE CONTRACTOR'S EXPENSE.

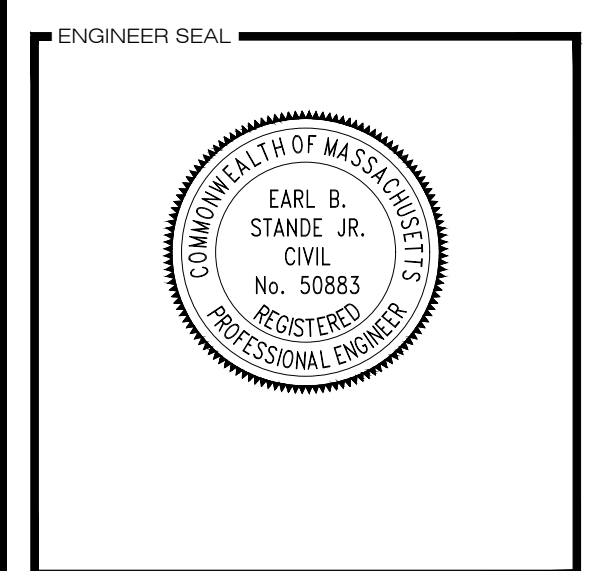
1
C-8
TREE PROTECTION DETAILS
NOT TO SCALE

TREE PROTECTION NOTES:

- PRIOR TO BEGINNING CONSTRUCTION THE CONTRACTOR SHALL COORDINATE A PRE-CONSTRUCTION SITE MEETING WITH THE DCR ARBORIST AND THE PROJECT ARBORIST TO REVIEW METHODS, LOCATIONS, AND INTENT OF TREE PROTECTION MEASURES. THE SITE WALK WILL ALSO IDENTIFY ANY TREE CANOPY PRUNING THAT MAY BE REQUIRED FOR INSTALLATION OF LIGHT/EQUIPMENT POLES.
- PRIOR TO BEGINNING CONSTRUCTION, THE CONTRACTOR SHALL INSTALL ALL TREE PROTECTION FENCING AT THE LIMIT OF WORK OF EACH WORK ZONE AS SHOWN ON THE PROJECT PLANS AND DETAILED ON SHEET C-10.
- THE GENERAL CONTRACTOR SHALL PRESERVE AND PROTECT ALL EXISTING TREES ALONG THE ENTIRE ESPLANADE PROJECT SITE. THE GENERAL CONTRACTOR IS RESPONSIBLE FOR ENFORCING TREE PROTECTION REQUIREMENTS AND PRACTICES SHOWN IN THE CONTRACT DOCUMENTS, AND FOR ENSURING THAT ALL SUB CONSULTANTS, SUB CONTRACTORS, TRADESMEN, AND LABORERS UNDERSTAND THE IMPORTANCE OF TREE PROTECTION DURING ALL PHASES OF THE PROJECT.
- ALL TREES ADJACENT TO CONSTRUCTION WORK ZONES SHALL BE PROTECTED EITHER BY TREE PROTECTION FENCING AS DETAILED ON SHEET C-10.
- LUMBER CLADDING PROTECTION ON TREE TRUNKS SHALL ONLY BE USED WHERE APPROVED OR REQUESTED BY THE DCR OR PROJECT ARBORIST, AND SHALL BE INSTALLED AS FOLLOWS: WRAP TREE TWO TIMES MIN. WITH BURLAP. ATTACH 2X4 MEMBER 8' HIGH AT 6" SPACING USING STEEL WIRE TO FORM A PROTECTION JACKET FOR THE TRUNK. CARE SHALL BE TAKEN NOT TO DAMAGE EXPOSED BARK, ROOTS, OR LIMB.
- NO CONSTRUCTION ACTIVITIES OR VEHICULAR ACCESS SHALL BE ALLOWED WITHIN THE TREE PROTECTION FENCING AREAS.
- BEYOND THE TREE PROTECTION FENCING, IN INSTANCES WHERE CONSTRUCTION WORK ZONES FALL WITHIN THE LIMITS OF TREE CANOPIES, THE CONTRACTOR SHALL TAKE REASONABLE CARE TO DO THE FOLLOWING:
 - SOIL COMPACTION BY CONSTRUCTION VEHICLES AND EQUIPMENT, AND BY STORAGE OF EQUIPMENT AND MATERIAL IS PROHIBITED. WHERE TIRE-MOUNTED HEAVY EQUIPMENT OR VEHICLE STABILIZERS ARE NEEDED, SUCH AS CRANES OR EXCAVATORS, UTILIZE TIMBER OR STEEL-SHEET LOAD SPREADING TECHNIQUES. THE MIN. DIMENSIONS OF ANY LOAD SPREADING PANEL OR UNIT SHALL BE 6 FT. X 6 FT.
 - DAMAGE TO EXISTING OVERHEAD TREE LIMBS THAT COULD BE AFFECTED BY EQUIPMENT OPERATIONS OR POLE INSTALLATIONS IS PROHIBITED. POSITION ALL EQUIPMENT AWAY FROM TREE LIMBS.
 - TAKE CARE WITH ALL PIECES OF EQUIPMENT THAT ROTATE OR HAVE BOOMS THAT COULD CROSS OVER TREE PROTECTION FENCING. MECHANICAL DAMAGE TO TREE TRUNKS OR LIMBS IS PROHIBITED.
- WHERE EXPOSED ROOTS ARE VISIBLE ON THE GROUND WITHIN A CONSTRUCTION WORK ZONE, COVER THE ROOT AREA WITH 4 INCHES MINIMUM OF APPROVED (SUBMITTAL REQUIRED) ORGANIC MULCH PROTECTION OR LOAD SPREADERS PER 7.A. ABOVE. BEFORE ACCESSING WITH ANY VEHICLES. MANUALLY REMOVE PROTECTION UPON COMPLETION WITH CARE TO NOT DAMAGE ROOTS BY SCRAPING.
- ANY ROOTS GREATER THAN 2 INCHES IN DIAMETER THAT ARE EXPOSED BY OPEN TRENCHING TECHNIQUES SHALL BE PRESERVED AND PROTECTED IN PLACE. DOUSE ROOTS WITH WATER BEFORE BACKFILLING.
- ANY ROOTS SMALLER THAN 2 INCHES IN DIAMETER THAT ARE EXPOSED BY OPEN TRENCHING TECHNIQUES MAY BE PRUNED, IF NEEDED, WITH CLEAN 90 DEGREE CUTS AND BACKFILLED WITH GOOD QUALITY TOP SOIL WITHIN 24 HOURS.
- IF NECESSARY, CANOPY OR LIMB PRUNING TO PROVIDE CLEARANCE FOR STRUCTURES OR NEW POLES SHALL TAKE PLACE BEFORE CONSTRUCTION BEGINS. ALL PRUNING MUST BE DONE BY A CERTIFIED ARBORIST APPROVED BY THE OWNER (DCR) AND THE PROJECT ARBORIST.
- THE OWNER (DCR) AND THE PROJECT ARBORIST HAVE THE AUTHORITY TO REQUIRE ADDITIONAL TREE PROTECTION BEFORE OR DURING CONSTRUCTION, AS DEEMED NECESSARY.
- THE GENERAL CONTRACTOR SHALL BE RESPONSIBLE TO REPAIR OR REPLACE ANY EXISTING TREE DAMAGED BY CONSTRUCTION ACTIVITIES ALONG THE ENTIRE ESPLANADE PROJECT SITE AT NO ADDITIONAL COST, AND TO THE OWNER'S SATISFACTION. ANY NEW PLANTINGS MUST BE GUARANTEED FOR A PERIOD OF 2 YEARS.



PREPARED BY
JACOBS
Jacobs Engineering Group, Inc.
120 ST. JAMES AVENUE
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TEL (617) 242-9222
FAX (617) 242-9824



APPROVALS

LANDLORD _____

LEASING _____

R.F. _____

ZONING _____

CONSTRUCTION _____

A & E _____

PROJECT NO: EREX0000

DRAWN BY: JT

CHECKED BY: CAT

DESIGN REVISIONS

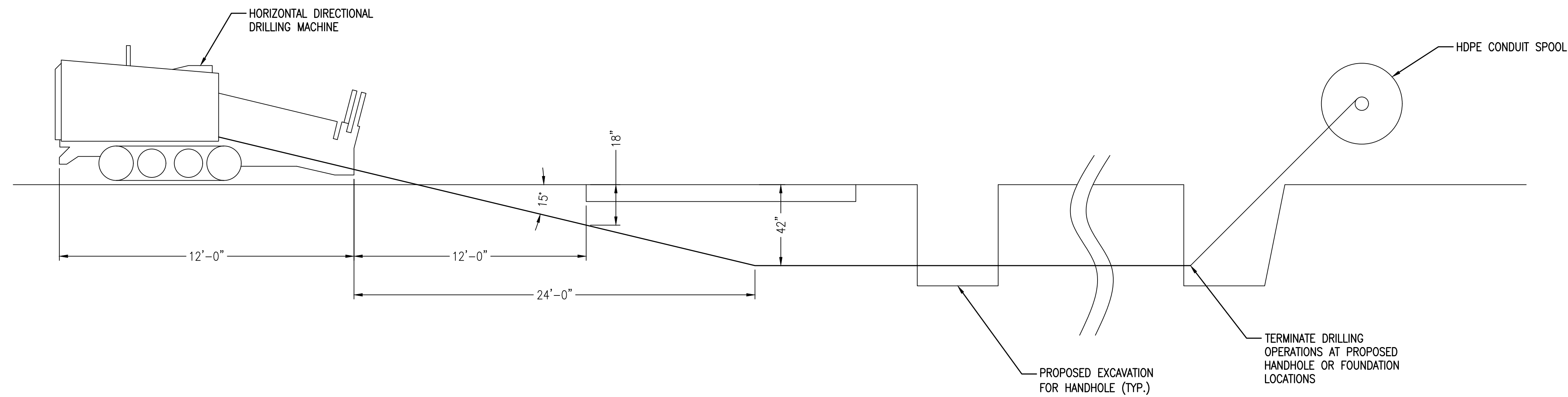
SUBMITTALS	
6	08/21/19 RENAME 100' BUFFER ZONE
5	07/08/19 REVISED PER COMMENTS
4	06/06/19 REVISED PER COMMENTS
3	05/15/19 WETLAND FLAGGING
2	02/28/19 PER DCR COMMENTS
1	01/09/19 REVISED PER COMMENTS
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SITE NAME
ESPLANADE oDAS
STORROW DRIVE
BOSTON, MA 02114

SHEET NAME
TREE PROTECTION DETAILS

SHEET NUMBER
C-8
CONSTRUCTION



1
C-9
TYPICAL HDD ELEVATION
NOT TO SCALE

NOTES:

1. THE EQUIPMENT SHOWN IS REPRESENTATIVE OF A STANDARD MINI HDD DRILLING MACHINE. EXACT EQUIPMENT SHALL BE DETERMINED BY CONTRACTOR. EQUIPMENT SHOWN AND SETBACK CLEARANCES ARE FOR REFERENCE ONLY, AND SHALL BE CONFIRMED BY CONTRACTOR FOR PRECISE EQUIPMENT THAT IS SELECTED FOR CONSTRUCTION.
2. A MINIMUM CLEAR DEPTH OF 42" SHALL BE PROVIDED AT ALL LOCATIONS WHERE THE OWNER AND CERTIFIED ARBORIST AND DCR ARBORIST AGREE THAT TREE ROOTS COULD BE ENCOUNTERED BY THE HDD DRILL.
3. A MINIMUM CLEARANCE DIMENSION OF 18" BELOW ASPHALT IS REQUIRED FOR LOCATIONS WHERE TREE ROOTS ARE NOT EXPECTED AS CONFIRMED BY OWNER CERTIFIED ARBORIST AND DCR ARBORIST. OTHERWISE, CONTRACTOR SHALL COMPLY WITH THE 42" MINIMUM VERTICAL CLEARANCE REQUIREMENT.
4. MODEL SHOWN FOR REFERENCE. TYPICALLY WEIGHT ±11,500 LBS. MACHINE ROUTE TO BE PROTECTED BY STEEL PLATE OR PLYWOOD TO PREVENT SOIL COMPACTION.

PREPARED FOR
extenet SYSTEMS
YOUR NETWORK EVERYWHERE.

PREPARED BY
JACOBS
Jacobs Engineering Group, Inc.
120 ST. JAMES AVENUE
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ENGINEER SEAL
EARL B. STANDE JR.
CIVIL
No. 50883
REGISTERED
PROFESSIONAL ENGINEER

APPROVALS

LANDLORD _____
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R.F. _____
ZONING _____
CONSTRUCTION _____
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PROJECT NO: EREX0000

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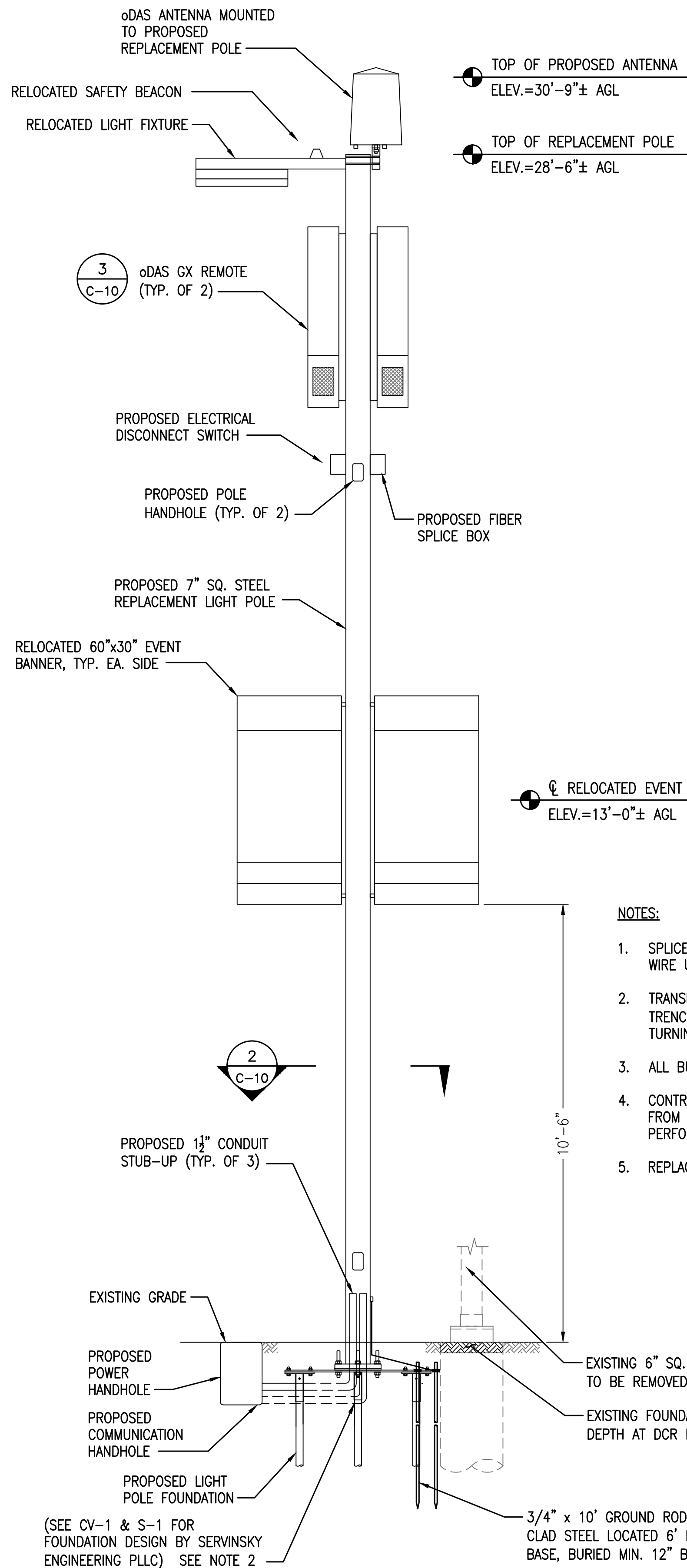
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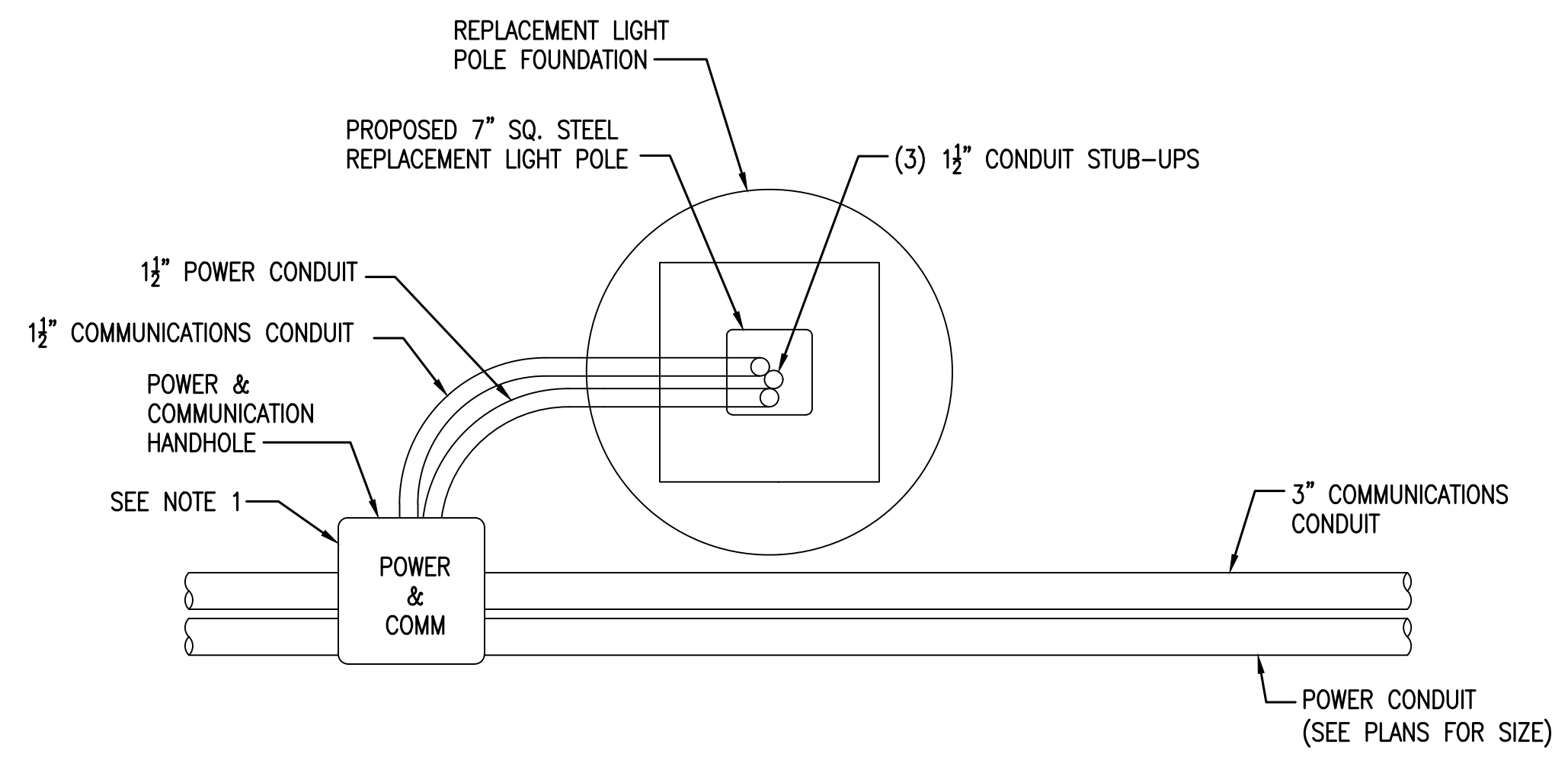
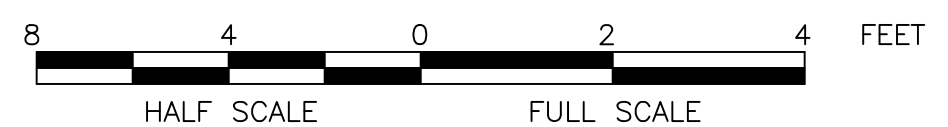
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SHEET NAME
HDD DETAILS

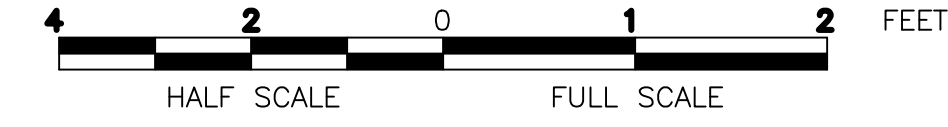
SHEET NUMBER
C-9
CONSTRUCTION



1 **REPLACEMENT POLE ELEVATION**
 C-10 SCALE: 1/2" = 1'-0" FULL SCALE (22"x34")
 1/4" = 1'-0" HALF SCALE (11"x17")



2 **REPLACEMENT POLE SCHEMATIC - PLAN**
 C-10 SCALE: 1" = 1'-0" FULL SCALE (22"x34")
 1/2" = 1'-0" HALF SCALE (11"x17")



- NOTES:**
1. SPLICE CABLE TO ROUTE #12 AWG. XHHW-2 COPPER WIRE UP POLE TO DISCONNECT SWITCH.
 2. TRANSITION FROM PVC SCHEDULE 40 CONDUIT IN TRENCH TO GALVANIZED RMC CONDUIT 12" BEFORE TURNING UP TO STUB UP.
 3. ALL BURIED CONDUIT SHALL BE PVC.
 4. CONTRACTOR SHALL EXTEND EXISTING POWER WIRES FROM OLD POLE LOCATION TO NEW POLE LOCATION. PERFORM SPLICES AT NEAREST HANDHOLE.
 5. REPLACEMENT POLE TO BE PAINTED MATTE BACK.

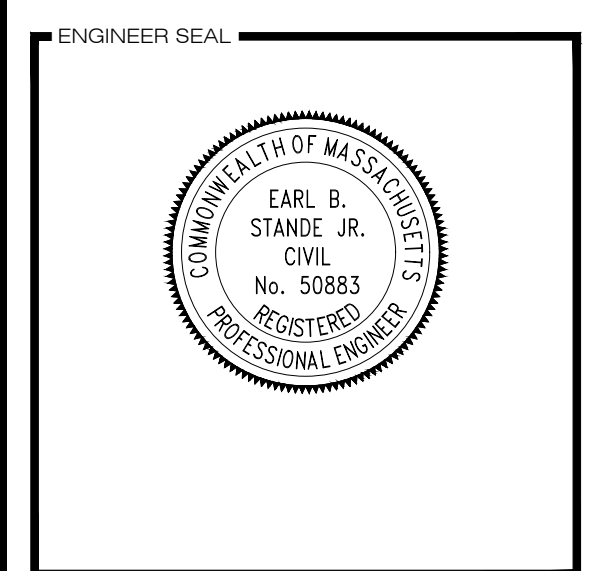


REMOTE UNIT SPECIFICATION	
MODEL	CORNING HIGH POWER GX 40W QUAD DAS SYSTEM
DIMENSIONS	53"H x 12.4"W x 8.9"D
WEIGHT	148 LBS
POWER	1,450 W

3 **oDAS REMOTE SPECIFICATION**
 C-10 NOT TO SCALE



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SHEET NAME
 SITE DETAILS

SHEET NUMBER
C-10
CONSTRUCTION