## COMMONWEALTH OF MASSACHUSETTS

# DEPARTMENT OF CONSERVATION AND RECREATION DIVISION OF DESIGN AND ENGINEERING

# CROW HILL POND BEACH IMPROVEMENTS

Fitchburg Road Westminster, Massachusetts

# BID DOCUMENTS

CONTRACT No. P25-3586-C2A JUNE 4, 2025



Megan Buczynski, PE Principal Civil Engineer -Activitas, Inc.



Stephen Crisafulli, RLA Associate Landscape Architect Activitas, Inc.

## LIST OF DRAWINGS:

- Topographic Survey
- Site Preparation & Erosion Control Plan
- SP1.2 Site Preparation & Erosion Control Details
- Layout and Materials Plan
- Grading and Utility Plan
- **Utility Details**
- Planting Plan
- Planting Details
- **Enlargement Sheet**
- Detail Sheet I
- Detail Sheet II
- Boardwalk Structural Sheet I
- Boardwalk Structural Sheet II



Massachusetts

#### **DEPARTMENT OF CONSERVATION & RECREATION** 10 Park Place, Suite 6620 Boston, Massachusetts 02116

**Maura Healey** Governor

Rebecca Tepper

**Secretary of Energy and Environmental Affairs** 

**Brian Arrigo** 

**Department of Conservation** & Recreation Commissioner

### PRIME CONSULTANT, LANDSCAPE ARCHITECT & **CIVIL ENGINEER**

Activitas, Inc. 70 Milton Street Dedham, MA 02026 p: 781-326-2600

### WETLAND DELINEATION & PERMITTING

Epsilon Associates, Inc.

3 Mill & Main Place, Suite 250 Maynard, MA 01750 p: 978-897-7100

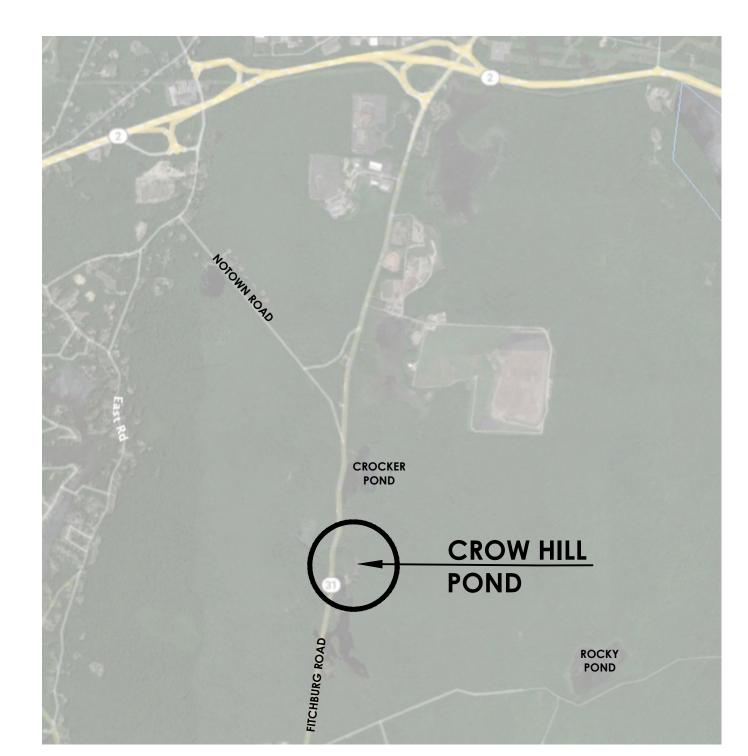
#### **SURVEYOR**

Reed Land Surveying, Inc. 109 Rhode Island Road Lakeville, MA 02347 p: 508-923-1181

#### STRUCTURAL ENGINEER

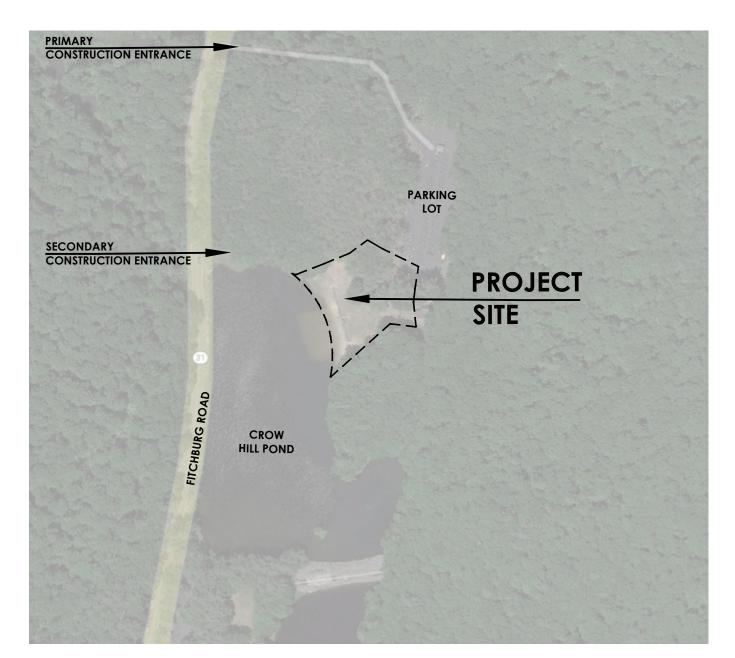
**Blackrock Consulting LLC** 109 Merriam Road

Grafton, MA 01519 p: 508-641-7482

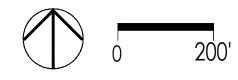


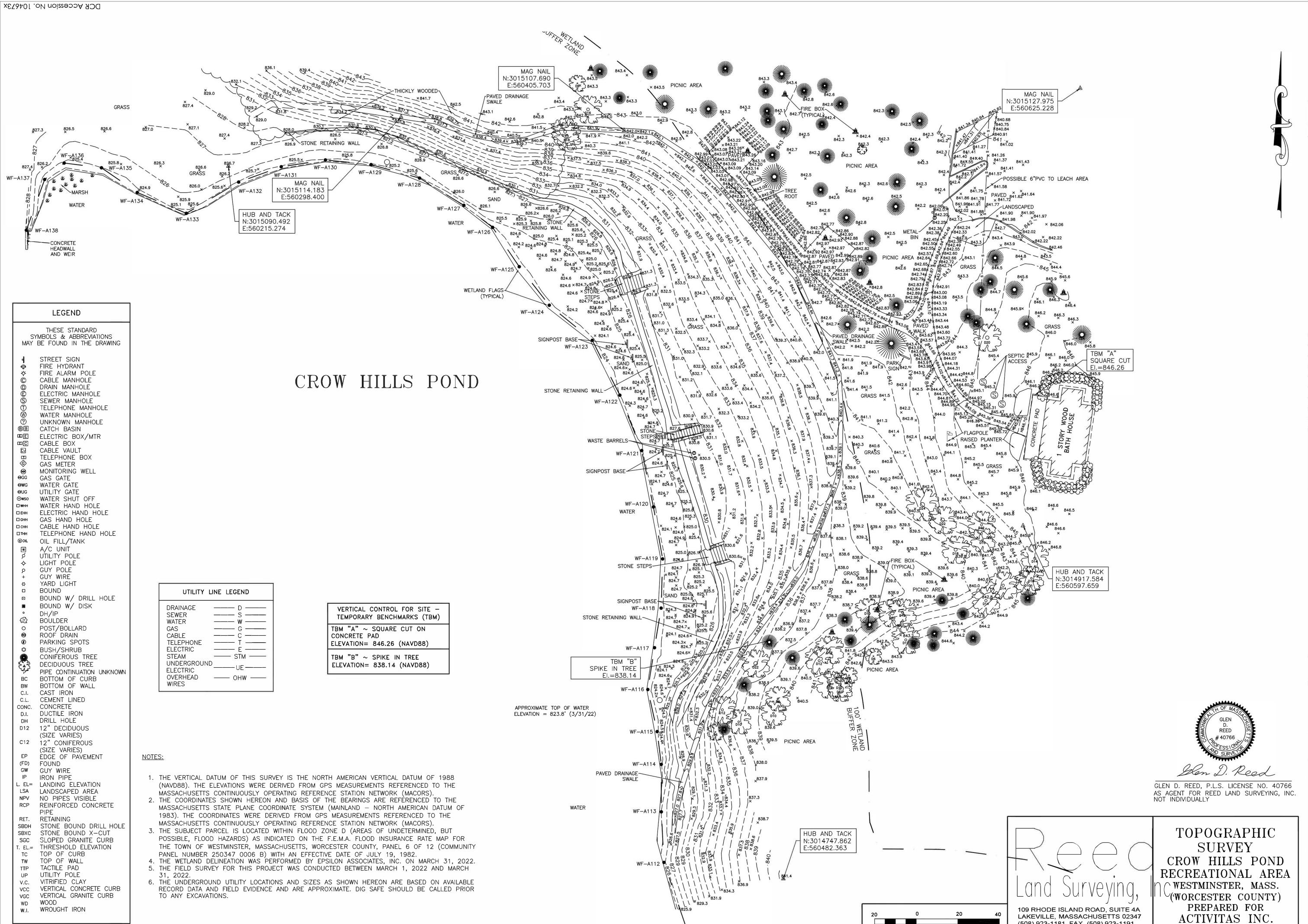
**VICINITY MAP** SCALE: 1"= 2000'





PROPERTY LOCATION MAP SCALE: 1"= 200'





WF-A111 •

Massachusetts 10 PARK PLACE, SUITE 6620

BOSTON, MA 02116

PRIME/LANDSCAPE ARCHITECT & CIVIL ENGINEER

Activitas, Inc. 70 Milton Street Dedham, MA 02026

P: 781-326-2600 **WETLAND DELINEATION** 

& PERMITTING Epsilon Associates, Inc. 3 Mill & Main Place, Suite 250

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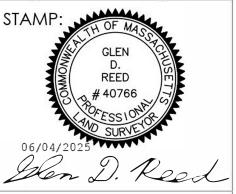
Maynard, MA 01754

SURVEYOR Reed Land Surveying, Inc. 109 Rhode Island Road

Lakeville, MA 02347 P: 508-923-1181

STRUCTURAL ENGINEER **Blackrock Consulting** 109 Merriam Road Grafton, MA 01519

P: 508-641-7482



Crow Hill

Beach Improvements

Fitchburg Road Westminster, MA

PHASE I BID DOCUMENTS

DCR CONTRACT NUMBER: P25-3586-C2A

1"=20'-0" SCALE: GDR DRAWN BY:

REVIEWED BY: GDR

DATE:

JUNE 4, 2025

SHEET TITLE:

**TOPGRAPHIC** SURVEY

SHEET NUMBER:

(508) 923-1181 FAX. (508) 923-1191

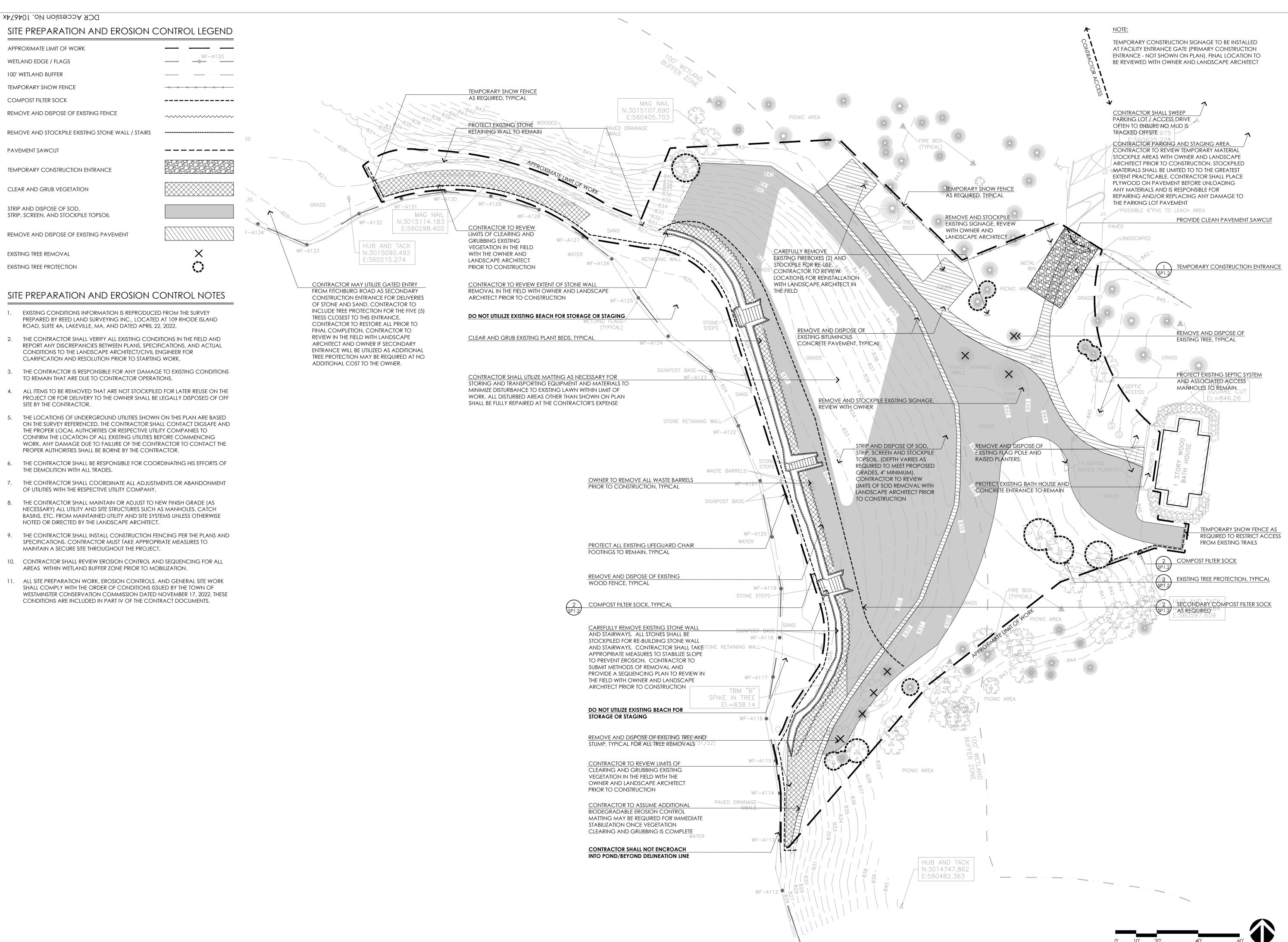
© 2022 REED LAND SURVEYING, INC.

FILE: 22008 TOPO

SCALE: 1"=20'

DCR Accession No.104673x

APRIL 22, 2022





10 PARK PLACE, SUITE 6620

BOSTON, MA 02116



PRIME/LANDSCAPE ARCHITECT & CIVIL ENGINEER Activitas, Inc.

Dedham, MA 02026 P: 781-326-2600 WETLAND DELINEATION

70 Milton Street

& PERMITTING Epsilon Associates, Inc. 3 Mill & Main Place, Suite 250 Maynard, MA 01754 P: 978-897-7100

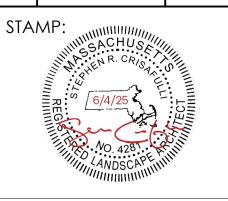
SURVEYOR Reed Land Surveying, Inc.

109 Rhode Island Road Lakeville, MA 02347 P: 508-923-1181

STRUCTURAL ENGINEER **Blackrock Consulting** 109 Merriam Road Grafton, MA 01519

P: 508-641-7482

DESCRIPTION



Crow Hill Pond

Beach Improvements

Fitchburg Road Westminster, MA

**PHASE I** BID DOCUMENTS

DCR CONTRACT NUMBER: P25-3586-C2A

SCALE: 1" = 20' - 0" DRAWN BY: MJD/AJA

REVIEWED BY: SRC/MEB

DATE: JUNE 4, 2025

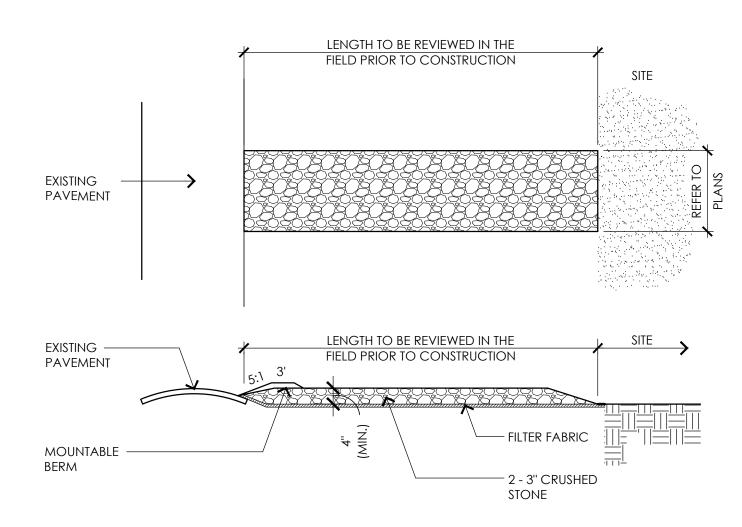
SHEET TITLE:

SITE PREPARATION AND EROSION CONTROL PLAN

SHEET NUMBER:

SP1.1

DCR Accession No.104674x



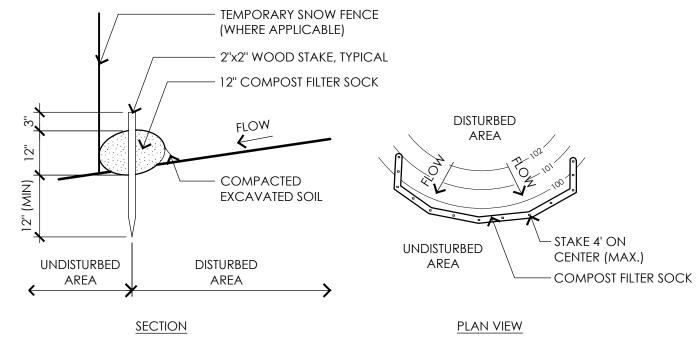
#### NOTES:

- 1. THE ENTRANCE SHALL BE MAINTAINED IN A CONDITION WHICH SHALL PREVENT TRACKING OR FLOWING OF SEDIMENT INTO THE PARKING LOT OR OFF-SITE. THIS MAY REQUIRE PERIODIC TOP DRESSING WITH ADDITIONAL STONE AS CONDITIONS DEMAND AND REPAIR OR CLEANOUT OF ANY MEASURES USED TO TRAP SEDIMENT. ALL SEDIMENT SPILLED, DROPPED, WASHED AND/OR TRACKED ONTO PUBLIC RIGHTS-OF-WAYS MUST BE REMOVED IMMEDIATELY. MOUNTABLE BERM SHALL BE PERMITTED. PERIODIC INSPECTION AND MAINTENANCE SHALL BE PROVIDED.
- 2. CONTRACTOR SHALL WASH WHEELS OF VEHICLES AT CONSTRUCTION ENTRANCE PRIOR TO VEHICLES EXITING SITE TO PREVENT SOIL MATERIAL FROM BEING TRACKED FROM THE SITE.
- 3. PERIODIC INSPECTION AND MAINTENANCE SHALL BE PROVIDED BY CONTRACTOR.

#### NOTES:

- 1. PLACE COMPOST FILTER SOCK ON LEVEL GRADE. EXTEND BOTH ENDS OF THE TUBE AT LEAST 8'-0" UPSLOPE AT 45 DEGREES TO THE MAIN ALIGNMENT.
- 2. REMOVE DEPOSITS WHEN SEDIMENT ACCUMULATION IS ONE THIRD THE HEIGHT OF THE EXPOSED COMPOST FILTER SOCK.
- 3. COMPOST FILTER SOCK SHALL REMAIN IN WORKING ORDER UNTIL THE SITE IS STABILIZED. ADDITIONAL EROSION CONTROLS SHALL BE INSTALLED AS NEEDED TO PREVENT SILT FROM
- 4. ALL CONTROLS SHALL BE SET 5' FROM BOTTOM TOE OF SLOPE

LEAVING THE SITE AT NO ADDITIONAL COST TO THE OWNER.



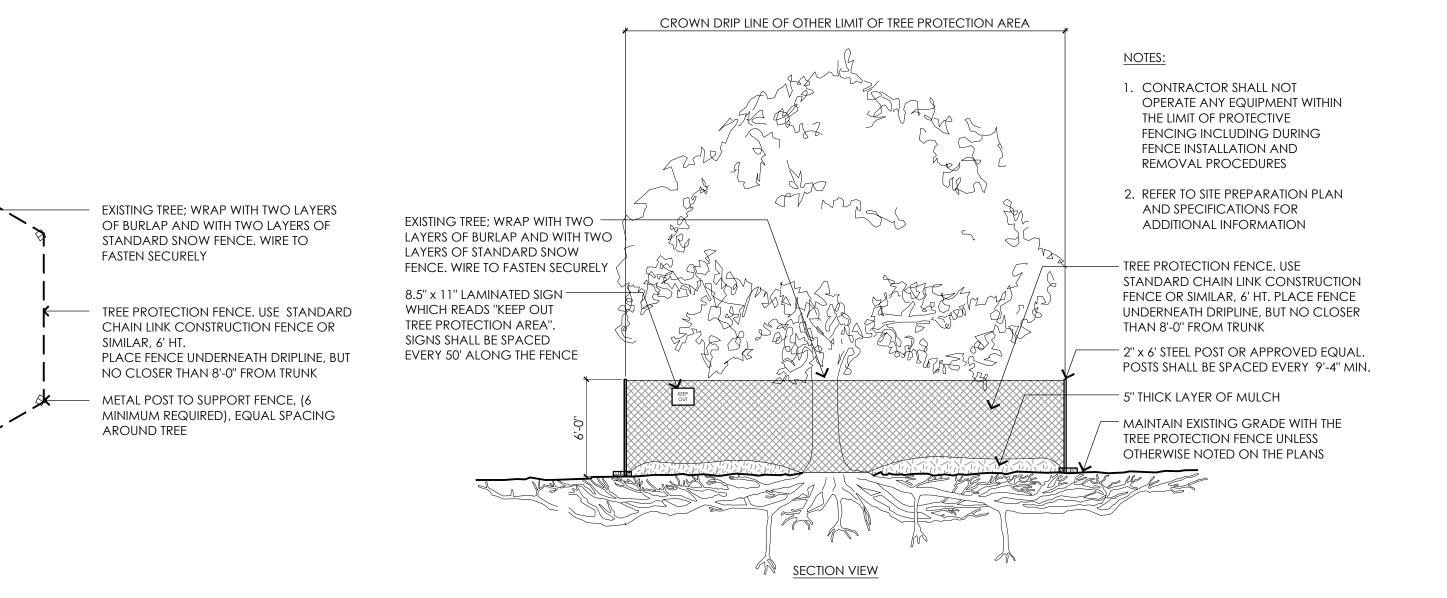
TEMPORARY CONSTRUCTION ENTRANCE

PLAN VIEW

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

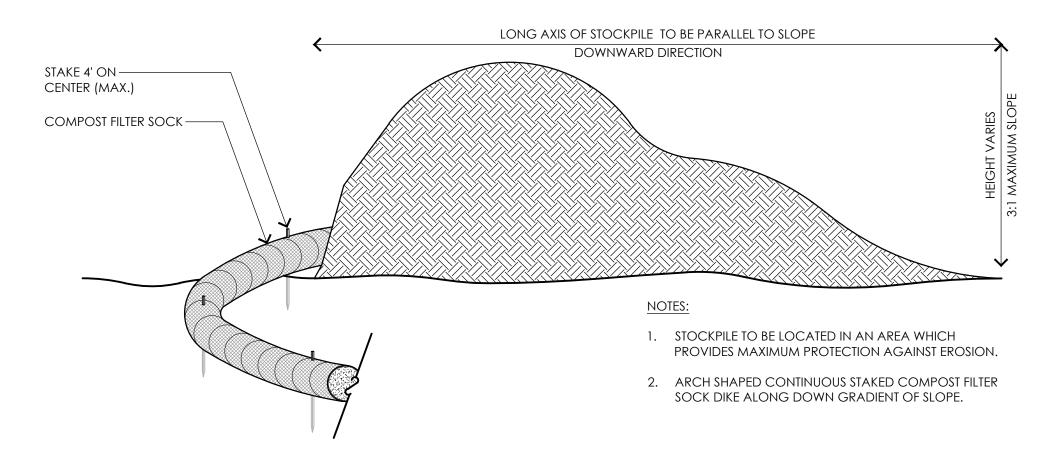
COMPOST FILTER SOCK

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



EXISTING TREE PROTECTION

SCALE: 1/4" = 1'-0"









PRIME/LANDSCAPE ARCHITECT & CIVIL ENGINEER Activitas, Inc. 70 Milton Street

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WETLAND DELINEATION

& PERMITTING
Epsilon Associates, Inc.
3 Mill & Main Place, Suite 250
Maynard, MA 01754

P: 978-897-7100 SURVEYOR

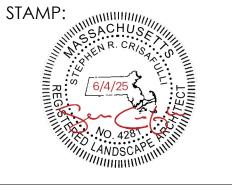
Reed Land Surveying, Inc.
109 Rhode Island Road

Lakeville, MA 02347 P: 508-923-1181

STRUCTURAL ENGINEER
Blackrock Consulting
109 Merriam Road
Grafton, MA 01519

P: 508-641-7482

NO. DESCRIPTION DATE



Crow Hill Pond

Fitchburg Road

Beach Improvements

Westminster, MA

PHASE I BID DOCUMENTS

DCR CONTRACT NUMBER:

P25-3586-C2A

SCALE: AS NOTED

SCALE:

DRAWN BY: MJD/AJA

REVIEWED BY: SRC/MEB

DATE:

JUNE 4, 2025

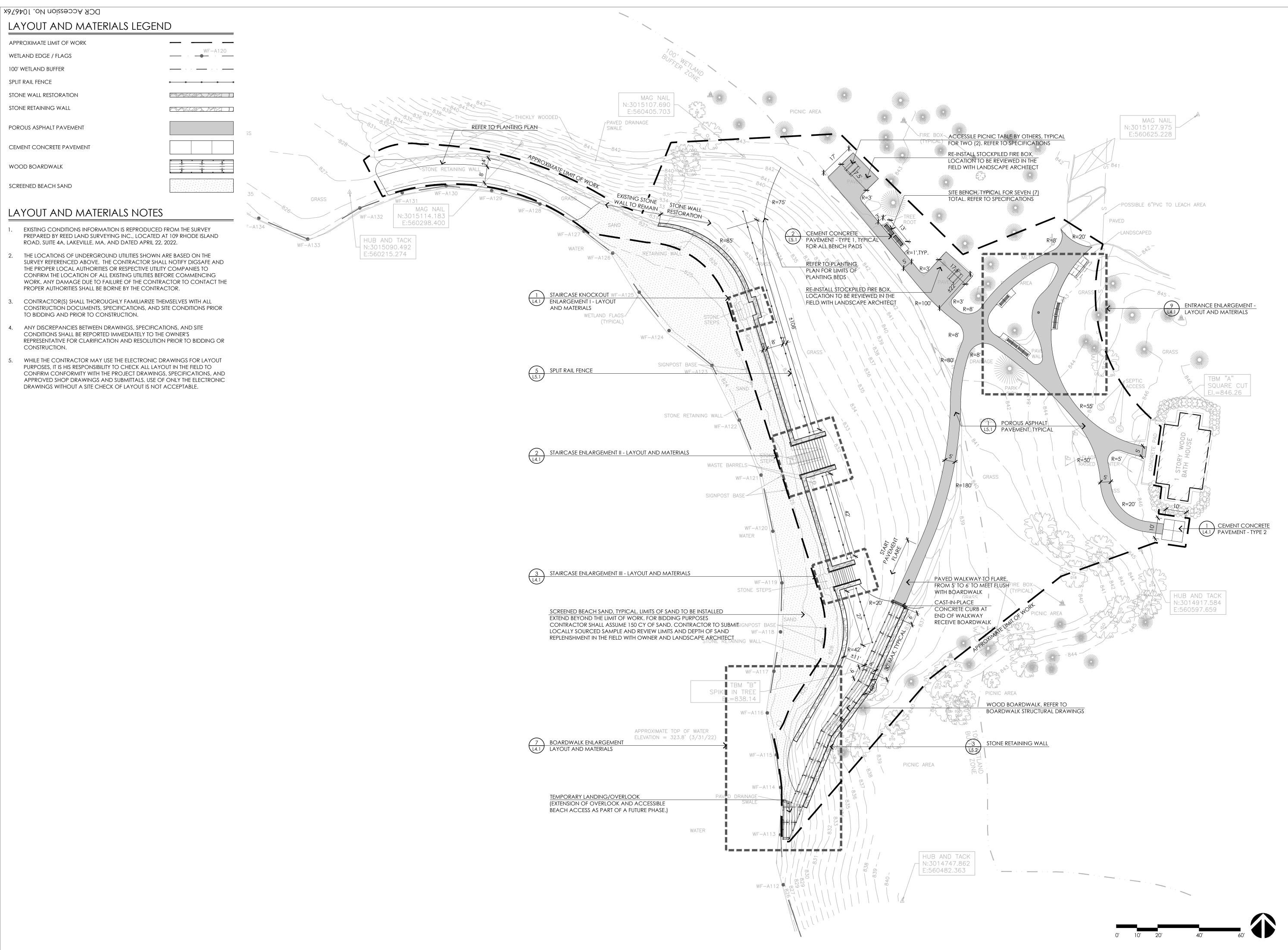
SHEET TITLE:

SITE PREPARATION AND EROSION CONTROL DETAILS

SHEET NUMBER:

SP1.2

DCR Accession No.104675x





PRIME/LANDSCAPE ARCHITECT & CIVIL ENGINEER Activitas, Inc. 70 Milton Street

Dedham, MA 02026 P: 781-326-2600

WETLAND DELINEATION & PERMITTING Epsilon Associates, Inc. 3 Mill & Main Place, Suite 250

Maynard, MA 01754 P: 978-897-7100

SURVEYOR

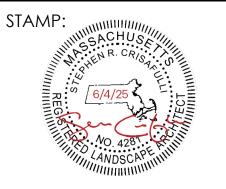
Reed Land Surveying, Inc. 109 Rhode Island Road Lakeville, MA 02347

P: 508-923-1181

P: 508-641-7482

STRUCTURAL ENGINEER **Blackrock Consulting** 109 Merriam Road Grafton, MA 01519

DESCRIPTION



Crow Hill Pond

Beach Improvements

Fitchburg Road Westminster, MA

PHASE I BID DOCUMENTS

DCR CONTRACT NUMBER: P25-3586-C2A

1" = 20' - 0"

SCALE: DRAWN BY: MJD/AJA

REVIEWED BY: SRC/MEB

DATE: JUNE 4, 2025

SHEET TITLE:

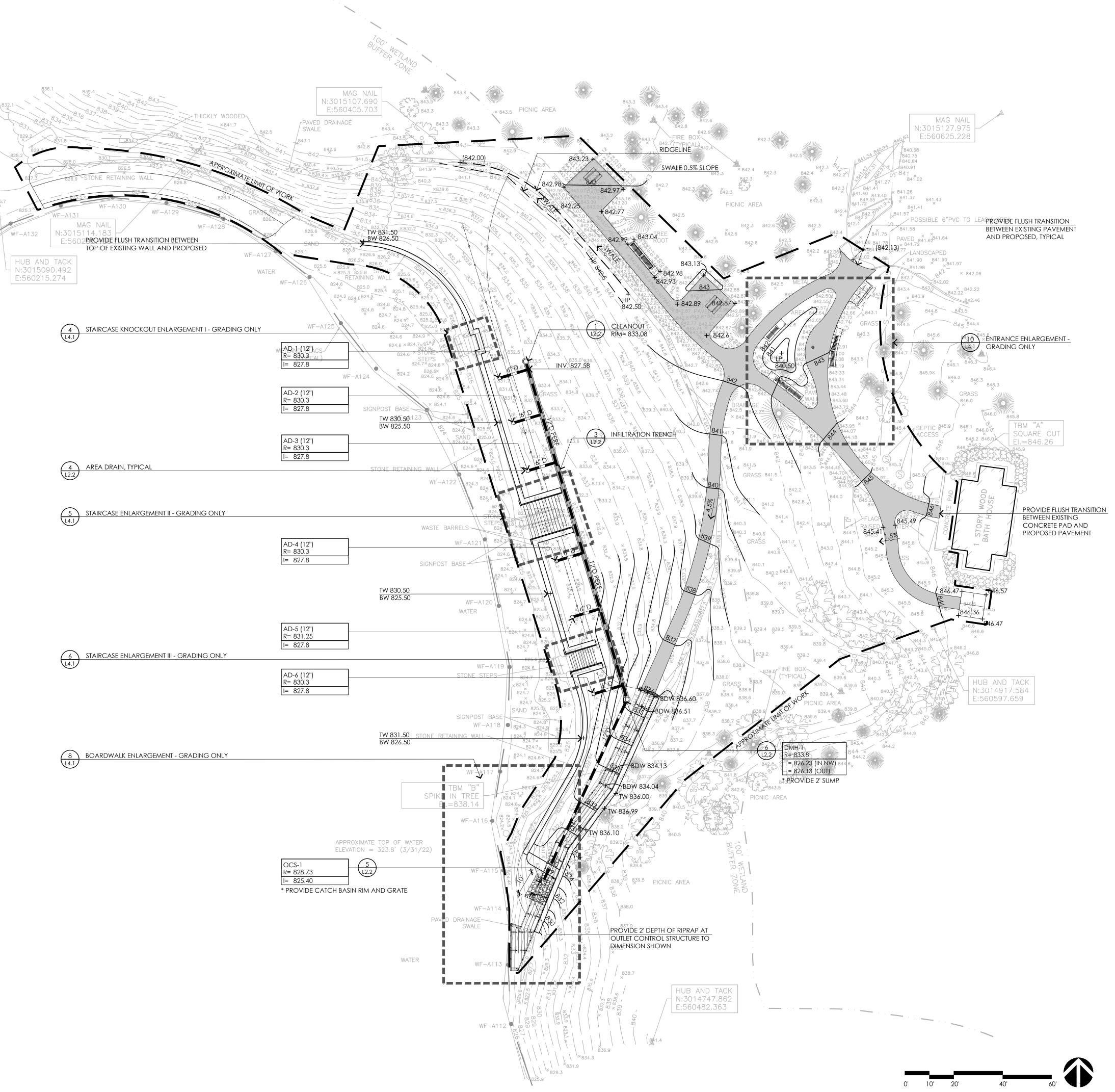
LAYOUT AND MATERIALS PLAN

SHEET NUMBER:

DCR Accession No.104676x

#### DCR Accession No. 104677x GRADING AND UTILITY LEGEND APPROXIMATE LIMIT OF WORK WETLAND EDGE / FLAGS 100' WETLAND BUFFER EXISTING 1' CONTOUR PROPOSED 1' CONTOUR EXISTING SPOT GRADE 278.6 PROPOSED SPOT GRADE +835.15 PROPOSED SLOPE DIRECTION HDPE PERFORATED DRAIN LINE HDPE SOLID DRAIN LINE INFILTRATION TRENCH **OUTLET CONTROL STRUCTURE** CLEANOUT BOARDWALK SPOT GRADE ELEVATION GRADING AND UTILITY NOTES

- EXISTING CONDITIONS INFORMATION IS REPRODUCED FROM THE SURVEY PREPARED BY REED LAND SURVEYING INC., LOCATED AT 109 RHODE ISLAND ROAD, SUITE 4A, LAKEVILLE, MA, AND DATED APRIL 22, 2022.
- THE LOCATIONS OF UNDERGROUND UTILITIES SHOWN ARE BASED ON THE SURVEY REFERENCED ABOVE. THE CONTRACTOR SHALL NOTIFY DIGSAFE AND THE PROPER LOCAL AUTHORITIES OR RESPECTIVE UTILITY COMPANIES TO CONFIRM THE LOCATION OF ALL EXISTING UTILITIES BEFORE COMMENCING WORK. ANY DAMAGE DUE TO FAILURE OF THE CONTRACTOR TO CONTACT THE PROPER AUTHORITIES SHALL BE BORNE BY THE CONTRACTOR.
- CONTRACTOR SHALL VERIFY EXISTING GRADES AND NOTIFY THE OWNER'S REPRESENTATIVE OF ANY DISCREPANCIES.
- 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'S REPRESENTATIVE FOR RESOLUTION OF THE CONFLICT.
- THE CONTRACTOR SHALL MAKE ARRANGEMENTS FOR THE ALTERATION AND ADJUSTMENT OF ALL ELECTRIC, TELEPHONE, AND ANY OTHER PRIVATE UTILITIES BY THE UTILITY COMPANY.
- AREAS OUTSIDE THE LIMITS OF PROPOSED WORK DISTURBED BY THE CONTRACTOR'S OPERATIONS SHALL BE RESTORED BY THE CONTRACTOR TO THEIR ORIGINAL CONDITION, AT THE CONTRACTOR'S EXPENSE.
- PROTECT AND MAINTAIN EXISTING ON-SITE DRAINAGE STRUCTURES AND PIPES UNLESS OTHERWISE NOTED, REFER TO UTILITY PLANS.
- WHERE PROPOSED GRADES MEET EXISTING GRADES, CONTRACTOR SHALL BLEND GRADES TO PROVIDE A SMOOTH TRANSITION BETWEEN EXISTING AND NEW WORK. PONDING AT TRANSITION AREAS WILL NOT BE ALLOWED.
- CONTRACTOR SHALL MAINTAIN POSITIVE DRAINAGE AWAY FROM ALL BUILDING FOUNDATIONS, STRUCTURES AND PLANTING BEDS.





BOSTON, MA 02116



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P: 978-897-7100 SURVEYOR

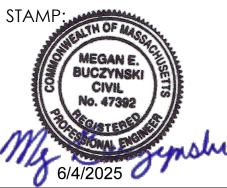
Reed Land Surveying, Inc. 109 Rhode Island Road Lakeville, MA 02347

P: 508-923-1181

P: 508-641-7482

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DESCRIPTION



Crow Hill Pond

Beach Improvements

Fitchburg Road Westminster, MA

PHASE I BID DOCUMENTS

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1" = 20' - 0"

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DATE: JUNE 4, 2025

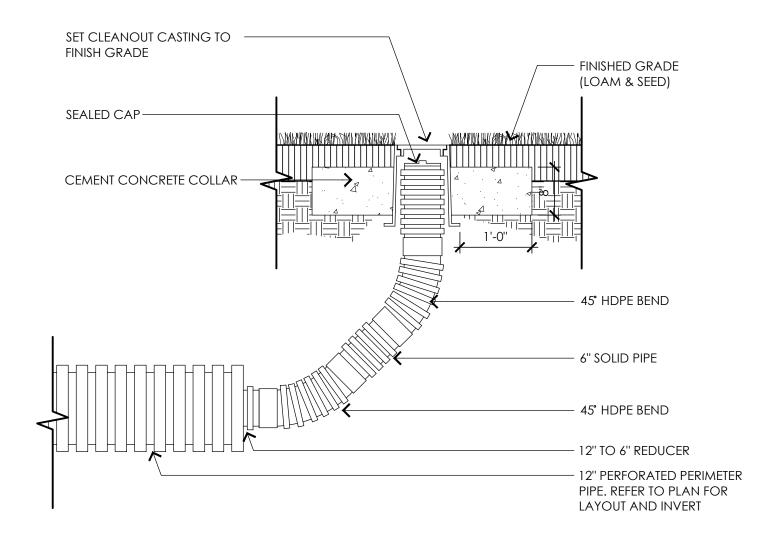
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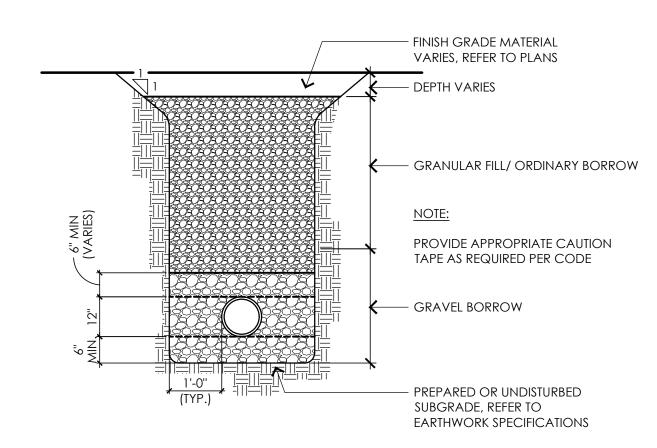
**GRADING AND UTILITY PLAN** 

SHEET NUMBER:

DCR Accession No.104677x

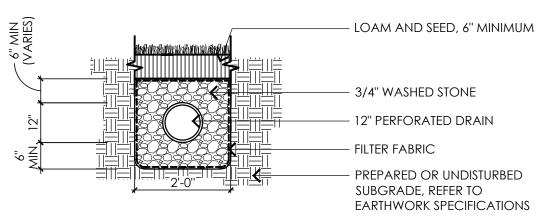
#### DCR Accession No. 104678x

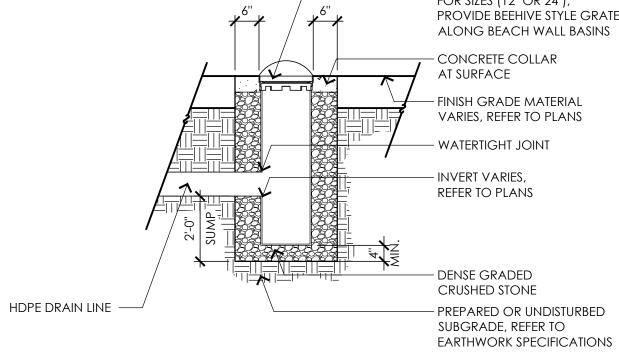




NOTE:

PROVIDE APPROPRIATE CAUTION TAPE AS REQUIRED PER CODE





INFILTRATION TRENCH

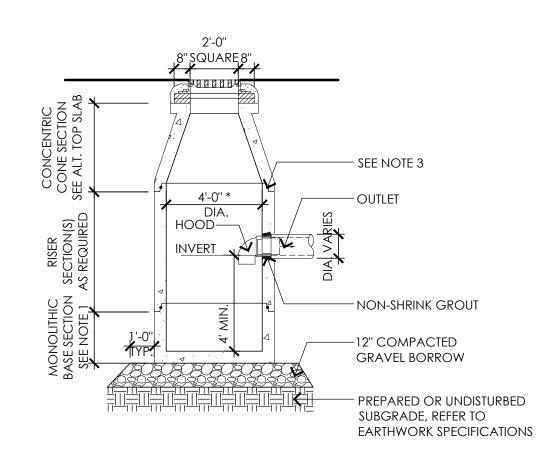
**CLEANOUT** SCALE: 3/4" = 1'-0"

NOTES:

1. ALL SECTIONS SHALL BE DESIGNED FOR HS-20 LOADING.

2. PROVIDE "V" KNOCKOUTS FOR PIPES WITH 1" MAX. CLEARANCE TO OUTSIDE OF PIPE. MORTAR ALL PIPE CONNECTIONS.

3. JOINT SEALANT BETWEEN PRECAST SECTIONS SHALL BE PREFORMED BUTYL RUBBER. 4. CATCH BASIN FRAME SHALL BE SET IN FULL MORTAR BED ADJUST TO GRADE WITH CLAY BRICK AND MORTAR (2 BRICK COURSES MINIMUM 5 BRICK COURSES MAXIMUM)



OUTLET CONTROL STRUCTURE

NOTES:

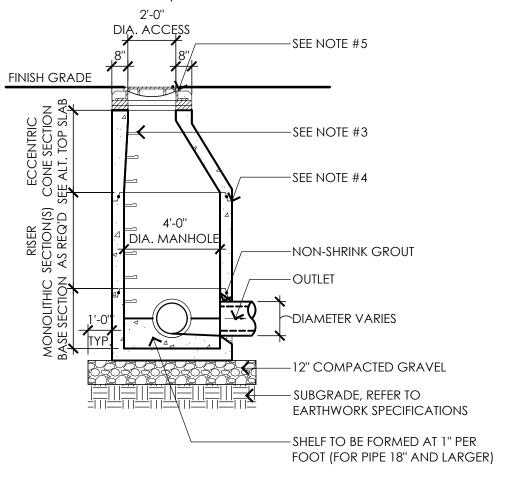
1. ALL SECTION SHALL BE DESIGNED FOR HS-20 LOADING.

2. PROVIDE "V" KNOCKOUTS FOR PIPES WITH 1" MAX. CLEARANCE TO OUTSIDE OF PIPE. MORTAR ALL PIPE CONNECTIONS.

3. COPOLYMER MANHOLE STEPS SHALL BE INSTALLED AT 12" O.C. FOR THE FULL DEPTH OF THE STRUCTURE.

4. JOINT SEALANT BETWEEN PRECAST SECTIONS SHALL BE PREFORMED BUTYL RUBBER.

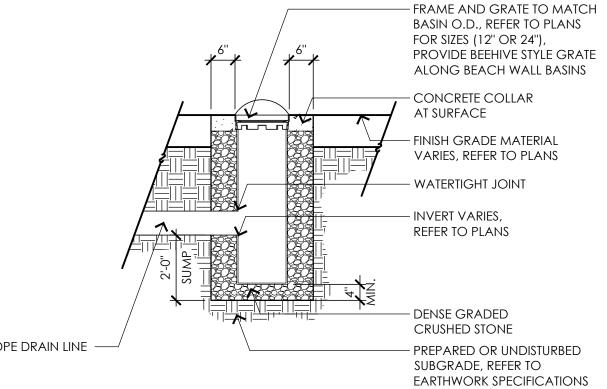
5. DRAIN MANHOLE FRAME SHALL BE SET IN FULL MORTAR BED. ADJUST TO GRADE WITH CLAY BRICK AND MORTAR (2 BRICK COURSES MINIMUM 5 BRICK COURSES MAXIMUM).

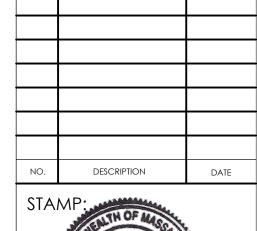


DRAIN MANHOLE

NOTES:

- 1. GRATES SHALL BE DUCTILE IRON PER ASTM A536 GRADE 70-50-05.
- 2. FRAMES SHALL BE DUCTILE IRON PER ASTM A536 GRADE 70-50-05.
- 3. DRAINAGE CONNECTION STUB JOINT TIGHTNESS SHALL CONFORM TO ASTM D3212 FOR CORRUGATED HDPE.





Massachusetts

10 PARK PLACE, SUITE 6620

BOSTON, MA 02116

PRIME/LANDSCAPE ARCHITECT

& CIVIL ENGINEER

Dedham, MA 02026

WETLAND DELINEATION

Epsilon Associates, Inc.

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3 Mill & Main Place, Suite 250

Reed Land Surveying, Inc.

109 Rhode Island Road

STRUCTURAL ENGINEER

Blackrock Consulting 109 Merriam Road Grafton, MA 01519 P: 508-641-7482

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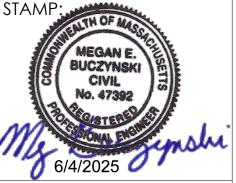
70 Milton Street

P: 781-326-2600

& PERMITTING

P: 978-897-7100

SURVEYOR



## Crow Hill Pond

Beach Improvements

Fitchburg Road Westminster, MA

### PHASE I BID DOCUMENTS

DCR CONTRACT NUMBER: P25-3586-C2A

SCALE:

DRAWN BY: MJD/AJA

AS NOTED

REVIEWED BY: SRC/MEB

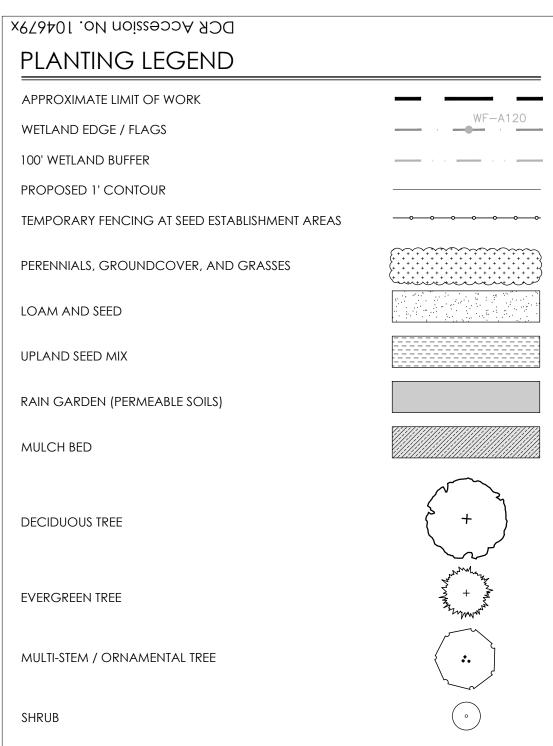
DATE: JUNE 4, 2025

SHEET TITLE:

UTILITY DETAILS

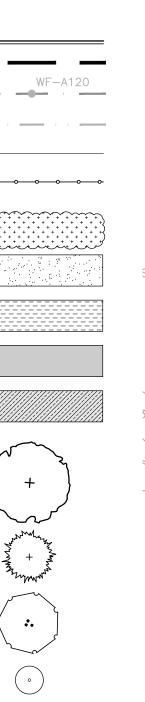
SHEET NUMBER:

DCR Accession No.104678x



#### PLANTING NOTES

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- THE LOCATIONS OF UNDERGROUND UTILITIES SHOWN ARE BASED ON THE SURVEY REFERENCED ABOVE. THE CONTRACTOR SHALL NOTIFY DIGSAFE AND THE PROPER LOCAL AUTHORITIES OR RESPECTIVE UTILITY COMPANIES TO CONFIRM THE LOCATION OF ALL EXISTING UTILITIES BEFORE COMMENCING WORK. ANY DAMAGE DUE TO FAILURE OF THE CONTRACTOR TO CONTACT THE PROPER AUTHORITIES SHALL BE BORNE BY THE CONTRACTOR.
- CONTRACTOR SHALL BEGIN MAINTENANCE IMMEDIATELY AFTER PLANTING AND WILL CONTINUE UNTIL FINAL WRITTEN ACCEPTANCE OF PLANT MATERIAL.
- 4. CONTRACTOR SHALL MAINTAIN POSITIVE DRAINAGE AWAY FROM PROPOSED BUILDING, STRUCTURES, AND PLANTING BEDS.
- THE LANDSCAPE CONTRACTOR SHALL SUPPLY ALL PLANT MATERIALS IN QUANTITIES SUFFICIENT TO COMPLETE ALL PLANTINGS SHOWN ON THIS DRAWING.
- 6. ALL MATERIALS SHALL CONFORM TO THE GUIDELINES ESTABLISHED BY THE AMERICAN NURSERY AND LANDSCAPE ASSOCIATION.
- 7. ALL PLANTS SHALL BEAR THE SAME RELATIONSHIP TO FINISH GRADE AS TO ORIGINAL GRADES BEFORE DIGGING.
- 8. FINAL LAYOUT OF PLANTINGS WILL BE IN THE FIELD PER THE DIRECTION OF THE LANDSCAPE ARCHITECT, PROVIDE A MINIMUM FORTY-EIGHT (48) HOURS NOTICE PRIOR TO BEGINNING FINAL LAYOUT AND PLANTING OPERATIONS. 9. ALL PLANTS TO BE BALLED IN BURLAP OR CONTAINERIZED.
- 10. ALL PLANTED AREAS TO BE EDGED AND MULCHED WITH AGED PINE BARK: PARTIALLY DECOMPOSED, JET BLACK IN COLOR AND FREE OF WOOD CHIPS THICKER THAN 1/4 INCH.
- 11. LANDSCAPE ISLAND PLANTING SOIL MIX: UTILIZE EXISTING SITE LOAM FROM STOCKPILES. THOROUGHLY INCORPORATE WITH COMPOST AS NEEDED PER SOILS ANALYSIS. FERTILIZE PER RECOMMENDED RATES IN SOIL ANALYSIS.
- 12. TREE PIT PLANTING SOIL MIX: REFER TO SPECIFICATIONS FOR CU STRUCTURAL SOIL.
- 13. THE LANDSCAPE CONTRACTOR SHALL GUARANTEE ALL PLANT MATERIALS FOR ONE (1) FULL YEAR FROM DATE OF ACCEPTANCE.
- 14. ALL PLANT MATERIALS ARE SUBJECT TO THE APPROVAL OF THE LANDSCAPE ARCHITECT, AT THE NURSERY, AND AT THE SITE.
- 15. ALL AREAS OF THE SITE WHICH HAVE BEEN DISTURBED AND NOT OTHERWISE DEVELOPED SHALL BE LOAMED AND SEEDED WITH A MINIMUM DEPTH OF 12" DEPTH TOPSOIL UNLESS OTHERWISE NOTED.
- 16. SLOPES 3:1 AND GREATER SHALL RECEIVE STRAW BLANKET PRIOR TO SEEDING.



## TREES AND SHRUBS

SYMBOL	BOTANICAL NAME	COMMON NAME	QTY.	SIZE	COMMENTS
TREES					
AC	AMELANCHIER CANADENSIS	SERVICEBERRY	3	2-2.5" CAL.	B&B
JV	JUNIPERUS VIRGINIANA	EASTERN RED CEDAR	3	8'-10' HT.	B&B
NS	NYSSA SYLVATICA	TUPELO / BLACK GUM	4	2-2.5" CAL.	B&B
QP	QUERCUS PALUSTRIS	PIN OAK	4	2.5-3" CAL.	B&B
SHRUBS					•
AM	ARONIA MELANOCARPA	BLACK CHOKEBERRY	5	3 GAL.	AS SHOWN
CA	CLETHRA ALNIFOLIA	SWEET PEPPERBUSH	6	3 GAL.	AS SHOWN
VL	VIBURNUM LENTAGO	NANNYBERRY VIBURNUM	6	5 GAL.	AS SHOWN
PERENNIALS,	GRASSES, AND GROUNDCOVERS				
СР	COMPTONIA PEREGRINA	SWEET FERN	40	1 GAL.	SPACE 24" O.C
DC	DESCHAMPSIA CESPITOSA	TUFTED HAIRGRASS	71	1 GAL.	SPACE 18" O.C
DP	DENNSTAEDTIA PUNCTILOBULA	HAY SCENTED FERN	18	1 GAL.	SPACE 24" O.C

N:3015114.183

HUB AND TACK ☐ N:3015090.492

E:560215.274

E:560298.400

CA (2)

N:3015107.690 E:560405.703

NS (2) PAVED DRAINAGE

PICNIC AREA

#### UPLAND SEED MIX

BOTANICAL NAME	COMMON NAME	INDICATOR
ANDROPOGON GERARDII	BIG BLUESTEM	FAC
ASCLEPIAS TUBEROSA	BUTTERFLY MILKWEED	FACW
BIDENS FRONDOSA	BEGGAR TICKS	FACW
CHAMAECRISTA FASCICULATA	PARTRIDGE PEA	FACU
DESMODIUM CANADENSE	SHOWY TICK TREFOIL	FAC
ELYMUS VIRGINICUS	VIRGINIA WILD RYE	FACW-
EUPATORIUM PURPUREUM (EUTROCHIUM MACULATUM)	PURPLE JOE PYE WEED	FAC
FESTUCA RUBRA	RED FESCUE	FACU
PANICUM VIRGATUM	SWITCH GRASS	FAC
SCHIZACHYRIUM SCOPARIUM	LITTLE BLUESTEM	FACU
SOLIDAGO JUNCEA	EARLY GOLDENROD	FACU
SORGHASTRUM NUTANS	INDIAN GRASS	UPL

#### APPLY 25LBS/ACRE: 1250 SF/LB

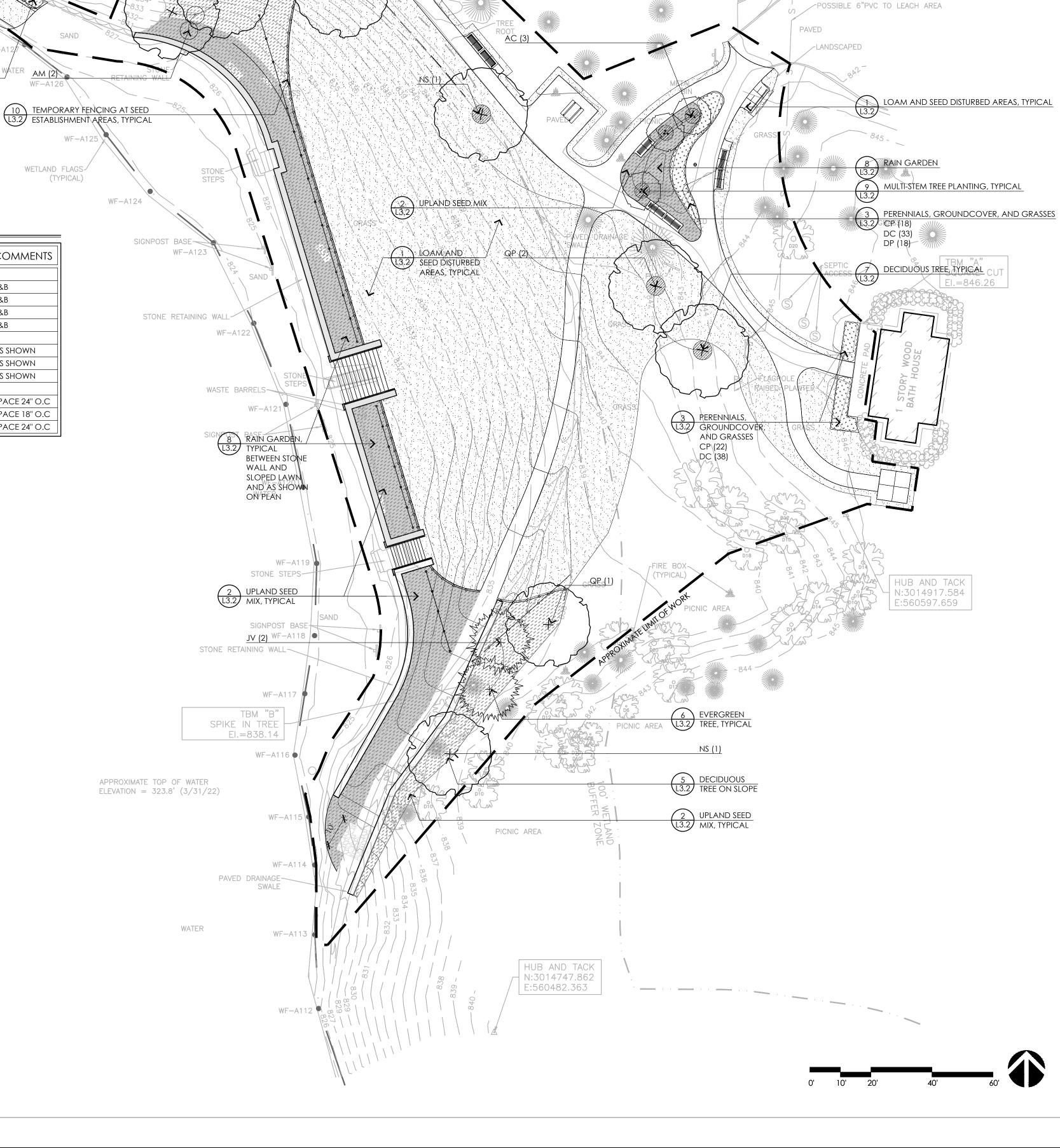
#### NOTES:

- 1. SEED MIXES SHALL BE EQUIVALENT TO THE SEED MIXES SHOWN AS DESIGNED AND SUPPLIED BY NEW ENGLAND WETLAND PLANTS, INC., AMHERST, MA (413) 548-8000.
- 2. CONTRACTOR SHALL SUBMIT ALL SEED MIXES TO LANDSCAPE ARCHITECT FOR REVIEW PRIOR TO PLACING ORDER.

JPLAND SEED MIX	QUANTITY:	
Site Development	Areas	(±6,66

Site Develo	opment Areas	(±6,660 sf)	1 lb/1250 sf( <b>qty. ±7 lbs)</b> INCLUDES 1.5 LBS EXTRA	
TERMS:				
FAC	FACULTATIVE SPECIES		EQUALLY LIKELY IN WETLANDS AND NOT IN WETLANDS	
FACU	U FACULTATIVE UPLAND SPECIES		USUALLY NOT IN WETLANDS BUT OCCASIONALLY IN WETLANDS	
FACW	FACW FACULTATIVE WETLAND SPECIES		USUALLY IN WETLANDS BUT OCCASIONALLY NOT IN WETLANDS	

OBLIGATED UPLAND SPECIES ALMOST ALWAYS IN NON-WETLANDS





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PRIME/LANDSCAPE ARCHITECT & CIVIL ENGINEER Activitas, Inc. 70 Milton Street

Dedham, MA 02026 P: 781-326-2600

& PERMITTING Epsilon Associates, Inc. 3 Mill & Main Place, Suite 250 Maynard, MA 01754

WETLAND DELINEATION

P: 978-897-7100 SURVEYOR

Reed Land Surveying, Inc. 109 Rhode Island Road Lakeville, MA 02347

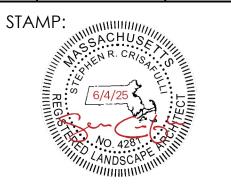
P: 508-923-1181 STRUCTURAL ENGINEER **Blackrock Consulting** 

109 Merriam Road

Grafton, MA 01519

P: 508-641-7482

DESCRIPTION



Crow Hill Pond Beach Improvements

> Fitchburg Road Westminster, MA

PHASE I BID DOCUMENTS

DCR CONTRACT NUMBER: P25-3586-C2A

SCALE: 1'' = 20' - 0'' DRAWN BY: MJD/AJA

REVIEWED BY: SRC/MEB

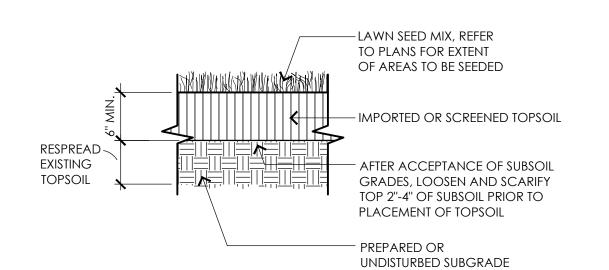
DATE: JUNE 4, 2025

SHEET TITLE:

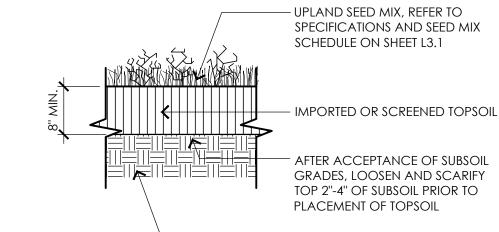
PLANTING PLAN

SHEET NUMBER:

DCR Accession No.104679x



LOAM AND SEED



UPLAND SEED MIX, REFER TO SPECIFICATIONS AND SEED MIX SCHEDULE ON SHEET L3.1

ADDITIONAL INFORMATION AND MAINTENANCE REQUIREMENTS. 2. REFER TO PLANTING PLAN ON SHEET

NOTE:

AFTER ACCEPTANCE OF SUBSOIL GRADES, LOOSEN AND SCARIFY TOP 2"-4" OF SUBSOIL PRIOR TO

L3.1 FOR RAIN GARDEN AREAS WHICH RECEIVE UPLAND SEED MIX WITH A PERMEABLE SOIL SUBSTRATE.

1. REFER TO SPECIFICATIONS FOR

NOTE:

REFER TO PLANTING SCHEDULE FOR SPACING REQUIREMENTS.

PERENNIALS, GROUNDCOVER,

AND GRASSES

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

--- 3"-4" MULCH COVER

EXISTING SOIL,

PREPARED TO

PREPARED OR

PLANTING SOIL MIX: 6"

AMENDMENTS AND

MIN. TOPSOIL WITH SOIL

HOMOGENOUS MIXTURE

RIPPED OR SCARIFIED

WITH FINISHED GRADE

UNDISTURBED SUBGRADE

SUBGRADE, SLOPE

PREPARED OR UNDISTURBED SUBGRADE

UPLAND SEED MIX

NOTE: TREE SHALL BEAR SAME RELATIONSHIP **B&B OR BAREROOT** TO FINISHED GRADE TREES (AS SPECIFIED) AS IT BORE TO NURSERY OR FIELD SET ALL PLANTS PLUMB GRADE. 3"-4" MULCH DEPTH -TAPERED AT TRUNK 3"-4" MULCH DEPTH TAPERED AT TRUNK EXISTING GRADE (SEE GRADING PLAN) BACKFILL WITH MIXTURE OF 75% NATIVE SOIL AND 25% DECOMPOSED ORGANIC MULCH AMENDMENT - 1:1 MAX

TREE SHALL BEAR SAME RELATIONSHIP TO FINISHED GRADE AS IT BORE TO NURSERY OR FIELD GRADE. 3"-4" DEPTH MULCH IN SAUCER, REFER TO SPECIFICATIONS PLANT SAUCER FINISH GRADE BASKETS ENTIRELY LIFTS OF 6"-8" DEPTH. SETTLE WITH THOROUGH WATERING PLACE ROOT BALL ON UNDISTURBED SOIL. IF SOIL HAS BEEN DISTURBED, PROVIDE COMPACTION TO MINIMIZE SETTLING.

**EVERGREEN TREE** 

NOTE:

TREE SHALL BEAR SAME RELATIONSHIP TO FINISHED GRADE AS IT BORE TO NURSERY OR WHERE MULTI-STEM TREES OCCUR IN PLANT BEDS, PROVIDE 3" MULCH CONTINUOUS TO EDGES OF PLANT BED - 3" MULCH IN SAUCER, REFER TO SPECIFICATIONS - PLANT SAUCER, 4" CONTINUOUS HEIGHT - SEED OR SOD AS NOTED ON PLANS — FINISH GRADE - CUT AND REMOVE BURLAP FROM TOP 1/3 OF ROOTBALL CUT AND REMOVE WIRE BASKETS ENTIRELY PLANTING SOIL MIX: BACKFILL IN LOOSE LIFTS OF 6"-8" DEPTH. SETTLE WITH THOROUGH WATERING PLACE BALL ON UNDISTURBED SOIL OR COMPACTED HOLE TO BE 3 TIMES AS WIDE SUBGRADE TO MINIMIZE SETTLING

AS THE ROOTBALL DIAMETER

DECIDUOUS TREE ON SLOPE

COLORED RIBBON SHALL BE PLACED ON POSTS EVERY 20' - 4' HIGH TEMPORARY BLACK SNOW FENCE MAINTAINED LAWN ESTABLISHED BY SEED PREPARED SUBGRADE, REFER TO EARTHWORK SPECIFICATIONS

1. CONTRACTOR SHALL PROVIDE 18"x24" TEMPORARY VINYL SIGNS

SECURED TO SNOW FENCE, TYPICAL FOR FOUR (4) SIGNS. GRAPHICS TO BE PROVIDED BY LANDSCAPE ARCHITECT.

TEMPORARY FENCING AT SEED ESTABLISHED AREAS MULTI-STEM TREE PLANTING SCALE: 1/4" = 1'-0" SCALE: 3/8" = 1'-0"

GRADE AS IT BORE TO CUT AND REMOVE BURLAP AND WIRE PLANTING SOIL MIX: BACKFILL IN LOOSE

TREE PIT (3 X ROOT—— BALL DIAMETER) TREE SHALL BEAR SAME RELATIONSHIP TO FINISHED ROOTBALL— NURSERY OR FIELD GRADE. 3"-4" DEPTH MULCH IN SAUCER, REFER TO SPECIFICATIONS PLANT SAUCER - FINISH GRADE MATERIAL VARIES, REFER TO PLANS - CUT AND REMOVE BURLAP AND WIRE BASKETS ENTIRELY PLANTING SOIL MIX: BACKFILL IN LOOSE LIFTS OF 6"-8" DEPTH. SETTLE WITH THOROUGH WATERING PLACE ROOT BALL ON UNDISTURBED SOIL. HOLE TO BE THREE TIMES AS WIDE IF SOIL HAS BEEN DISTURBED, PROVIDE AS THE ROOTBALL DIAMETER COMPACTION TO MINIMIZE SETTLING. **DECIDUOUS TREE** 

SHRUB PLANTING

SCALE: 3/8" = 1'-0"

1. REFER TO SPECIFICATIONS FOR ADDITIONAL INFORMATION AND MAINTENANCE REQUIREMENTS.

NOTES:

1. SHRUB SHALL BEAR SAME RELATIONSHIP TO FINISHED

GRADE AS IT BORE TO NURSERY OR FIELD GRADE.

2. WHERE SHRUBS OCCUR IN GROUPINGS IN PLANT BEDS,

MULCH CONTINUOUS TO CUT EDGES OF PLANT BED

3" MULCH IN SAUCER, NOT TO BE PILED AGAINST

PLANT SAUCER, 4" CONTINUOUS, SAUCERS ARE

NOT REQUIRED WHERE SHRUBS OCCUR IN BEDS

CUT AND REMOVE ALL BURLAP FROM ROOT BALL

PLANTING SOIL MIX: BACKFILL IN LOOSE LIFTS OF

6"-8" DEPTH. SETTLE WITH THOROUGH WATERING

PLACE ROOT BALL ON UNDISTURBED SOIL. IF

SOIL HAS BEEN DISTURBED, COMPACT TO

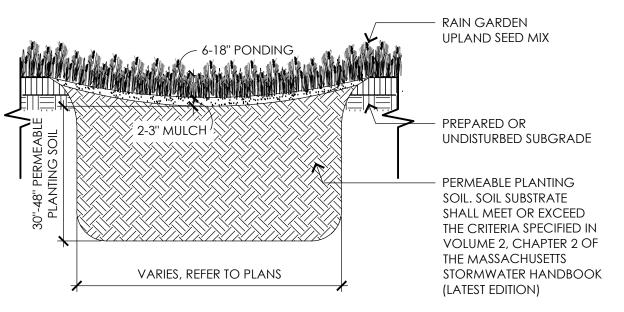
FINISH GRADE, REFER TO PLANS

MINIMIZE SETTLING

ROOT FLARE OR TRUNK, REFER TO SPECIFICATIONS

PROVIDE 2 - FOOT DEEP CONTINUOUS LOAM BED AND 3"

2. REFER TO PLANTING PLAN ON SHEET L3.1 FOR RAIN GARDEN AREAS WHICH RECEIVE UPLAND SEED MIX WITH A PERMEABLE SOIL SUBSTRATE IN LIEU OF TOPSOIL AS INDICATED ON DETAIL 2/L3.2.



RAIN GARDEN SCALE: 3/8" = 1'-0"

Massachusetts

10 PARK PLACE, SUITE 6620 BOSTON, MA 02116



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SURVEYOR Reed Land Surveying, Inc.

109 Rhode Island Road Lakeville, MA 02347

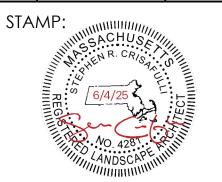
P: 508-923-1181

STRUCTURAL ENGINEER **Blackrock Consulting** 109 Merriam Road

Grafton, MA 01519

P: 508-641-7482

DESCRIPTION



Crow Hill Pond

Beach Improvements

Fitchburg Road Westminster, MA

PHASE I BID DOCUMENTS

DCR CONTRACT NUMBER: P25-3586-C2A

AS NOTED

SCALE: DRAWN BY: MJD/AJA

REVIEWED BY: SRC/MEB

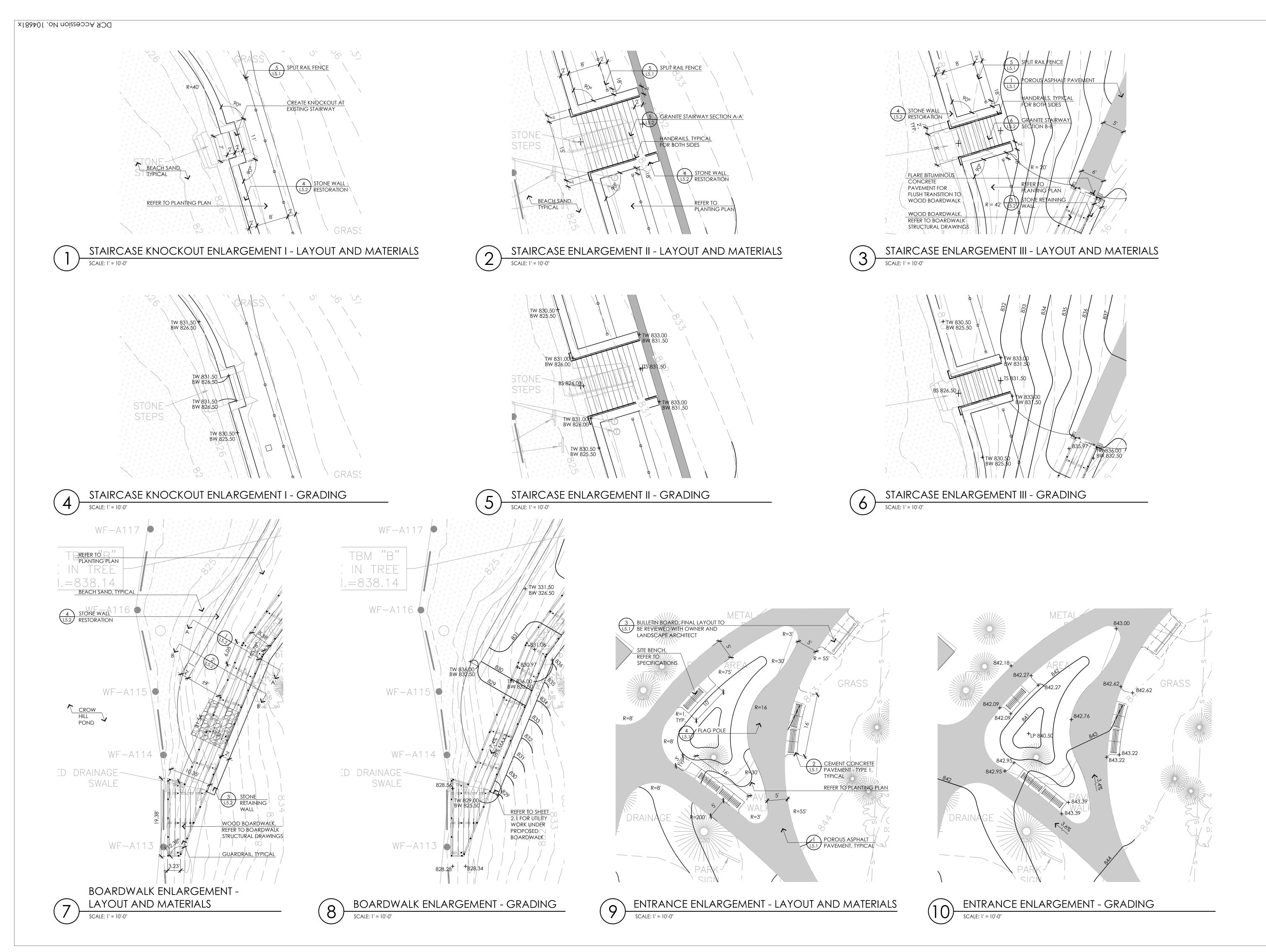
DATE: JUNE 4, 2025

SHEET TITLE:

PLANTING **DETAIL SHEET** 

SHEET NUMBER:

DCR Accession No.104680x



Massachusetts 10 PARK PLACE, SUITE 6620 BOSTON, MA 02116



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SURVEYOR

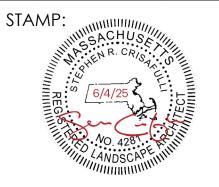
Reed Land Surveying, Inc. 109 Rhode Island Road

Lakeville, MA 02347 P: 508-923-1181

STRUCTURAL ENGINEER **Blackrock Consulting** 109 Merriam Road

Grafton, MA 01519 P: 508-641-7482

DESCRIPTION



Crow Hill Pond

Fitchburg Road Westminster, MA

Beach Improvements

PHASE I BID DOCUMENTS

AS NOTED

DCR CONTRACT NUMBER: P25-3586-C2A

SCALE:

DRAWN BY: MJD/AJA REVIEWED BY: SRC/MEB

DATE:

JUNE 4, 2025

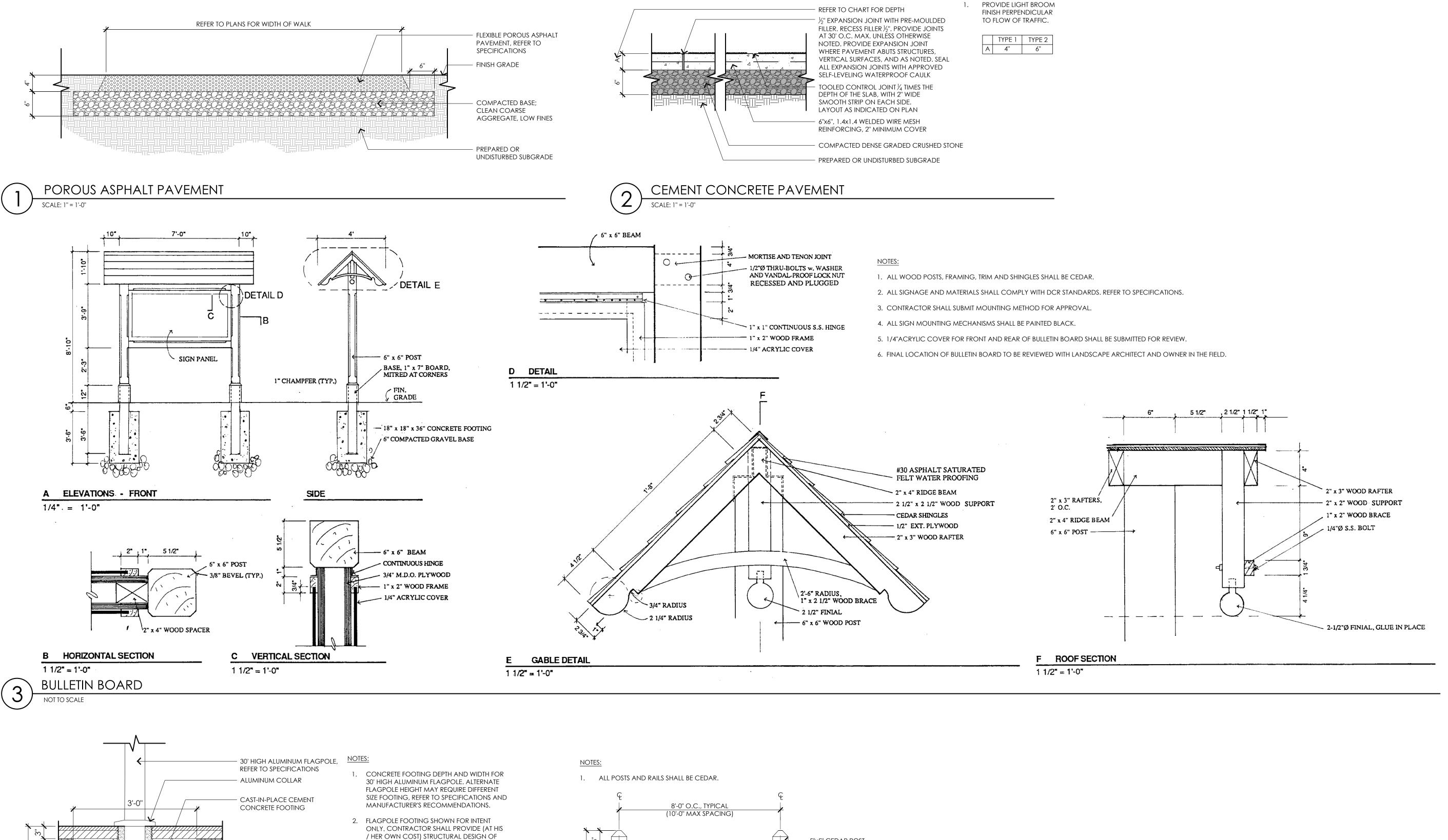
SHEET TITLE:

**ENLARGEMENT** PLAN

SHEET NUMBER:

L4.

DCR Accession No.104681x



NOTE:





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Epsilon Associates, Inc. 3 Mill & Main Place, Suite 250 Maynard, MA 01754 P: 978-897-7100

SURVEYOR

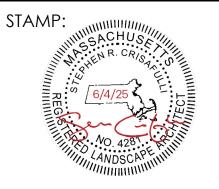
Reed Land Surveying, Inc. 109 Rhode Island Road

Lakeville, MA 02347 P: 508-923-1181

STRUCTURAL ENGINEER **Blackrock Consulting** 109 Merriam Road Grafton, MA 01519

P: 508-641-7482

DESCRIPTION



Crow Hill Pond

Beach Improvements

Fitchburg Road Westminster, MA

PHASE I BID DOCUMENTS

DCR CONTRACT NUMBER: P25-3586-C2A

SCALE:

DRAWN BY: MJD/AJA

REVIEWED BY: SRC/MEB

AS NOTED

DATE:

JUNE 4, 2025

SHEET TITLE:

DETAIL SHEET I

SHEET NUMBER:

DCR Accession No.104682x

THE FOUNDATIONS BY A STRUCTURAL

COMMONWEALTH OF MASSACHUSETTS AND SHALL CARRY COSTS ASSOCIATED WITH STRUCTURAL DESIGN OF HIS / HER BID.

ENGINEER LICENSED IN THE

— 5"x5" CEDAR POST, PROVIDE SLOT FOR RAILS - 3"x4" CEDAR RAILS SET LOOSE IN POST SLOT FINISH GRADE MATERIAL VARIES, REFER TO PLANS - PREPARED OR UNDISTURBED SUBGRADE \_ CEMENT CONCRETE FOOTING

2'-0"

**FLAGPOLE** 

SCALE: 1" = 1'-0"

— GROUND SLEEVE

- FLAGPOLE BUTT

STEEL BASE PLATE

SUPPORT PLATE

- PREPARED OR

- LIGHTING GROUND SPIKE

UNDISTURBED SUBGRADE

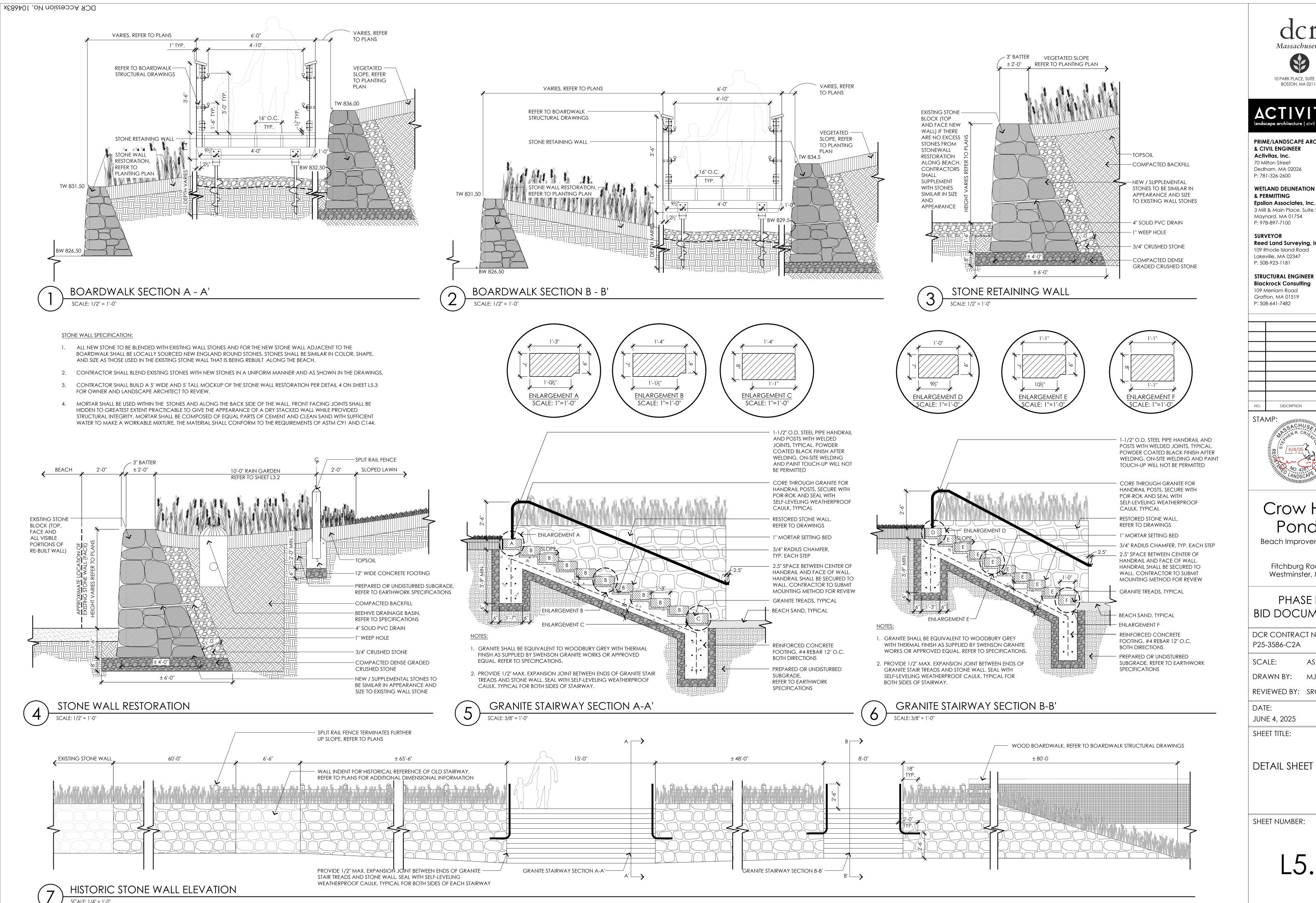
WEDGES

- DRY TAMPED SAND

INSIDE GROUND SLEEVE

DCR Accession No. 104682x

SPLIT RAIL FENCE SCALE: 3/4" = 1'-0"



Massachusetts

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SURVEYOR

Reed Land Surveying, Inc. 109 Rhode Island Road

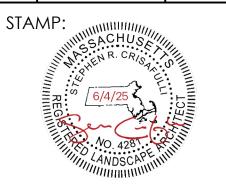
Lakeville, MA 02347 P: 508-923-1181

STRUCTURAL ENGINEER

**Blackrock Consulting** 109 Merriam Road

Grafton, MA 01519 P: 508-641-7482

DESCRIPTION



Crow Hill Pond

**Beach Improvements** 

Fitchburg Road Westminster, MA

PHASE I BID DOCUMENTS

DCR CONTRACT NUMBER: P25-3586-C2A

AS NOTED SCALE:

MJD/AJA REVIEWED BY: SRC/MEB

DATE:

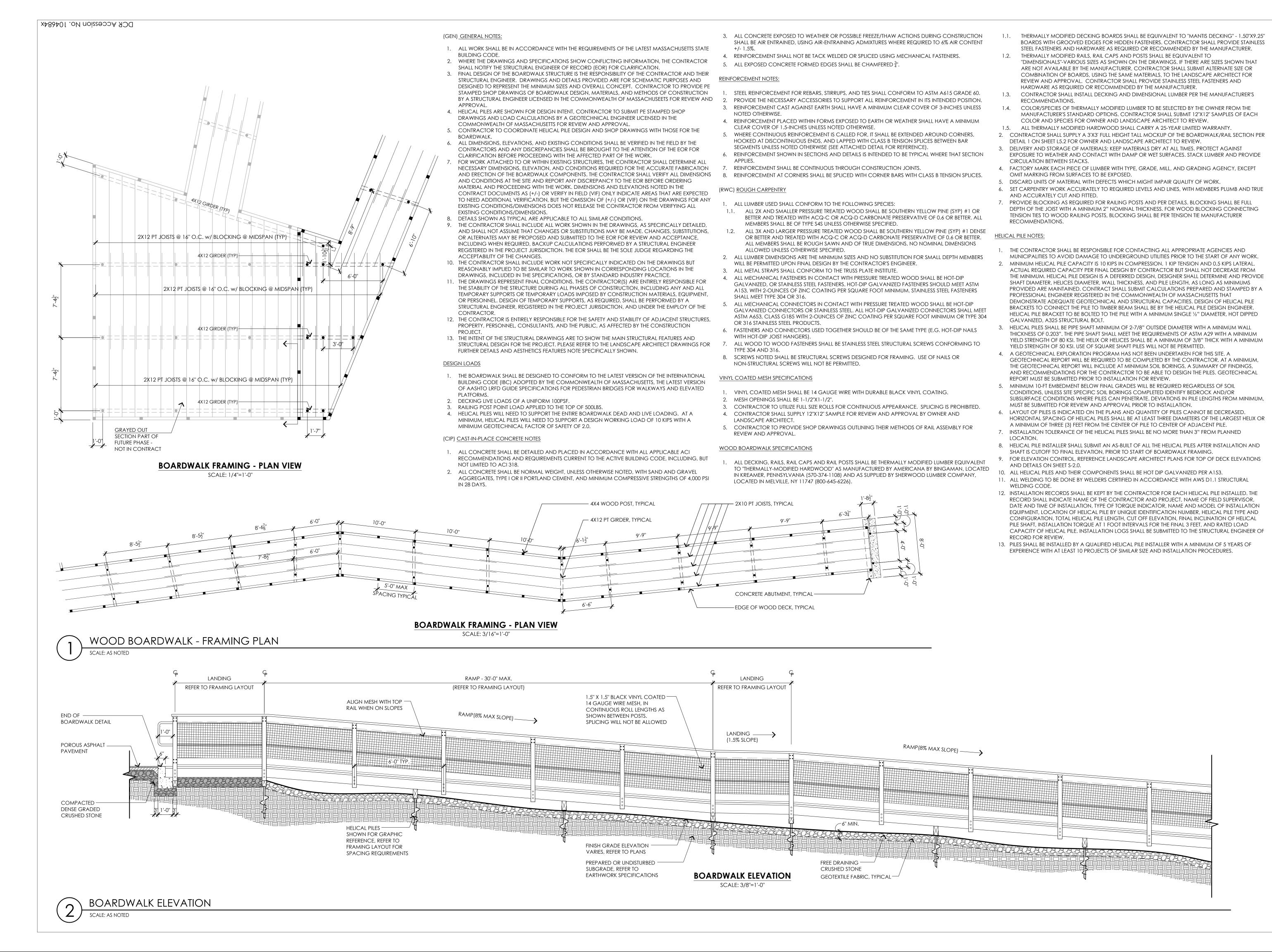
JUNE 4, 2025

SHEET TITLE:

DETAIL SHEET II

SHEET NUMBER:

DCR Accession No.104683x



dcr Massachusetts

ACTIVITAS

10 PARK PLACE, SUITE 6620

BOSTON, MA 02116

PRIME/LANDSCAPE ARCHITECT & CIVIL ENGINEER

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70 Milton Street
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& PERMITTING
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Maynard, MA 01754

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SURVEYOR
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109 Rhode Island Road Lakeville, MA 02347 P: 508-923-1181

STRUCTURAL ENGINEER
Blackrock Consulting
109 Merriam Road
Grafton, MA 01519
P: 508-641-7482

NO. DESCRIPTION DATE

STAMP:



Pond
Beach Improvements

Fitchburg Road Westminster, MA

PHASE I BID DOCUMENTS

DCR CONTRACT NUMBER: P25-3586-C2A

AS NOTED

MDC

SCALE:

DRAWN BY:

REVIEWED BY: MDC

DATE: JUNE 4, 2025

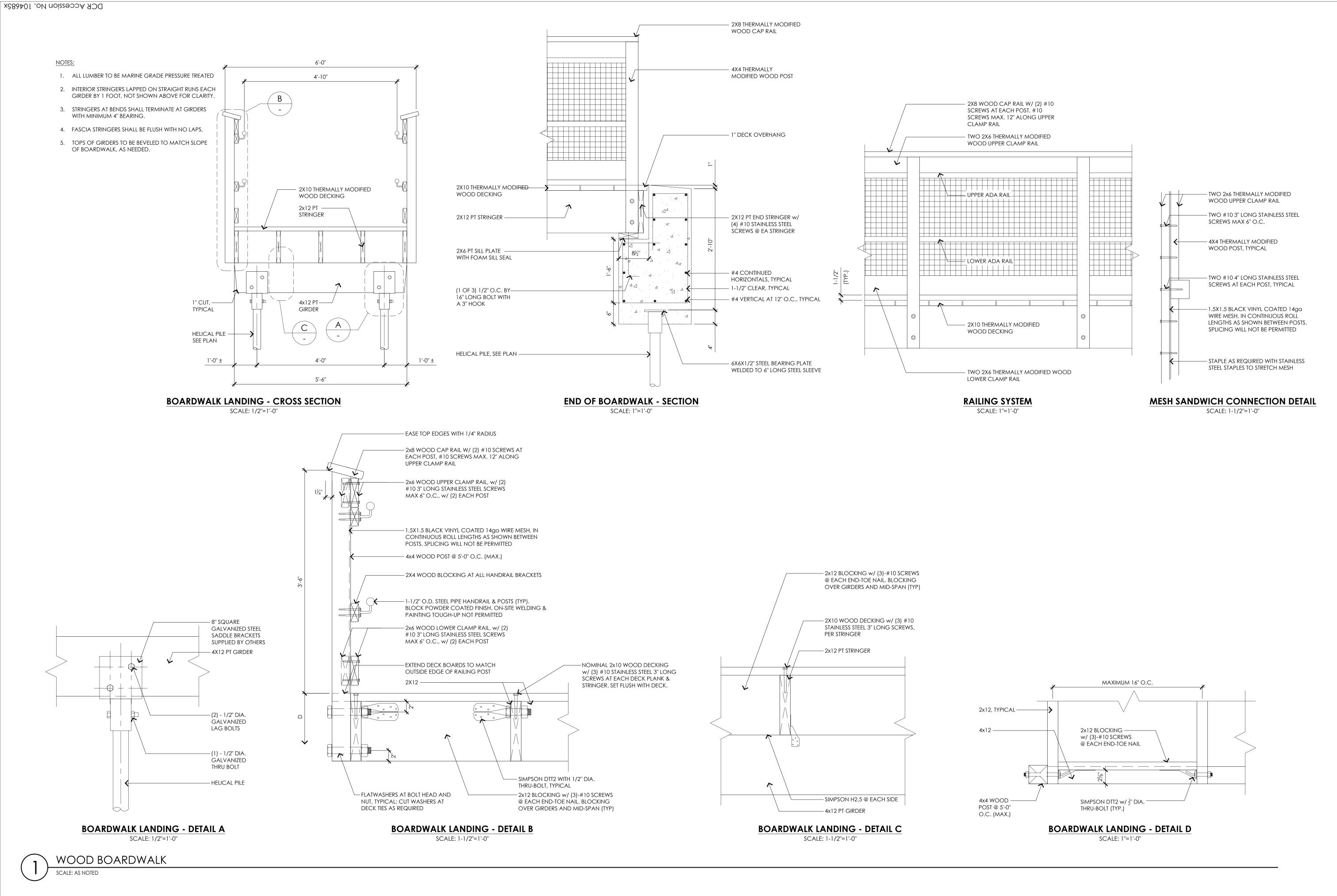
SHEET TITLE:

BOARDWALK STRUCTURAL SHEET I

SHEET NUMBER:

\$1.0

DCR Accession No.104684x







PRIME/LANDSCAPE ARCHITECT & CIVIL ENGINEER Activitas, Inc. 70 Milton Street

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SURVEYOR Reed Land Surveying, Inc.

109 Rhode Island Road Lakeville, MA 02347

STRUCTURAL ENGINEER **Blackrock Consulting** 109 Merriam Road

Grafton, MA 01519

P: 508-641-7482

P: 508-923-1181

DESCRIPTION

STAMP:



Crow Hill Pond

Beach Improvements

Fitchburg Road Westminster, MA

PHASE I BID DOCUMENTS

DCR CONTRACT NUMBER: P25-3586-C2A

**AS NOTED** 

SCALE: DRAWN BY: MDC

REVIEWED BY: MDC

DATE: JUNE 4, 2025

SHEET TITLE:

BOARDWALK STRUCTURAL

SHEET NUMBER:

SHEET II

DCR Accession No.104685x