

VICINITY MAP
Graphic Scale
1-inch = 500-feet



SOIL TEST PIT DATA

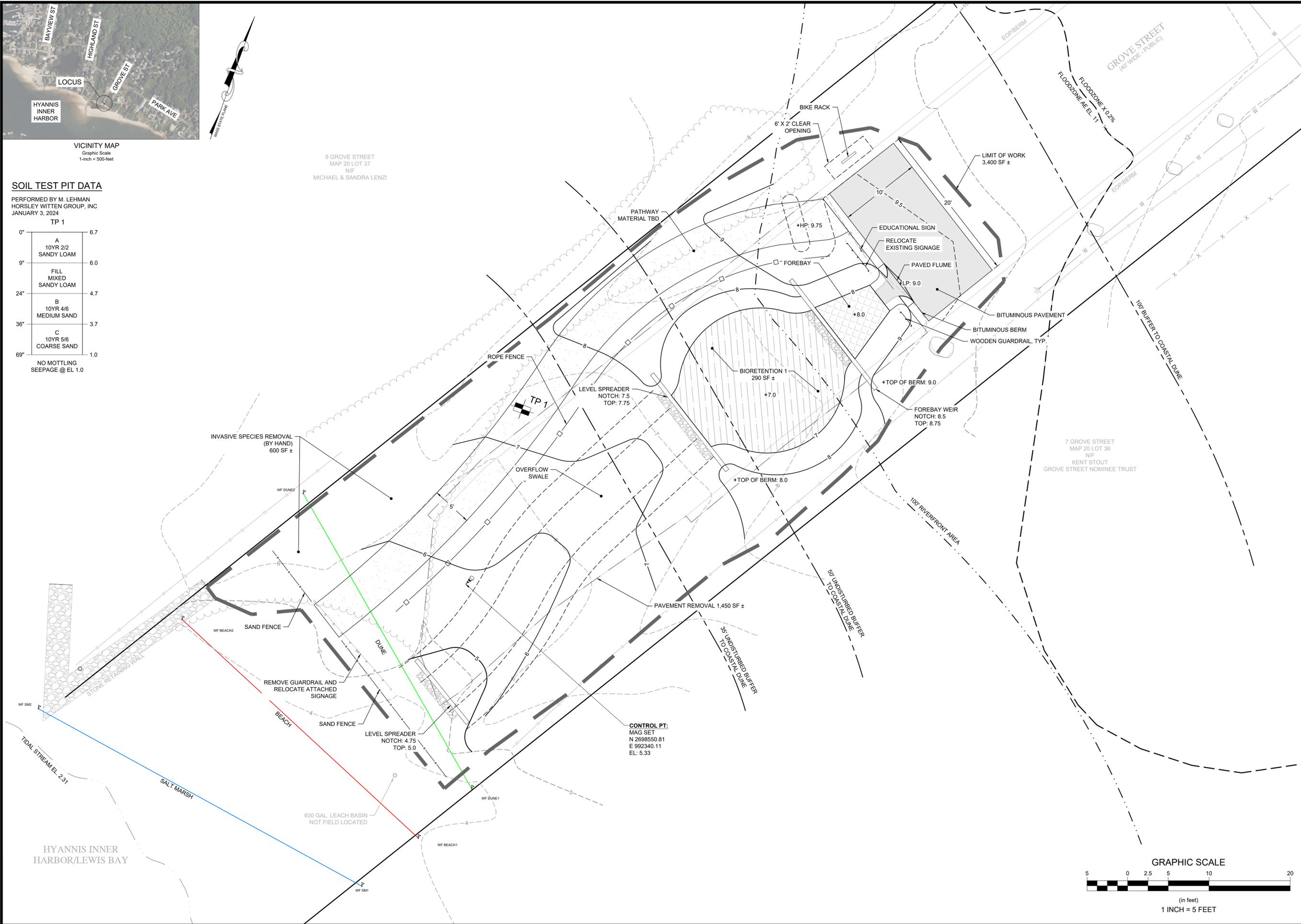
PERFORMED BY M. LEHMAN
HORSLEY WITTEN GROUP, INC
JANUARY 3, 2024

TP 1

| | |
|-------------------|-------------|
| 0" | 6.7 |
| A | 10YR 2/2 |
| | SANDY LOAM |
| 9" | 6.0 |
| FILL | MIXED |
| | SANDY LOAM |
| 24" | 4.7 |
| B | 10YR 4/6 |
| | MEDIUM SAND |
| 36" | 3.7 |
| C | 10YR 5/6 |
| | COARSE SAND |
| 69" | 1.0 |
| NO MOTTLING | |
| SEEPAGE @ EL. 1.0 | |

8 GROVE STREET
MAP 20 LOT 37
N/F
MICHAEL & SANDRA LENZI

7 GROVE STREET
MAP 20 LOT 36
N/F
KENT STOUT
GROVE STREET NOMINEE TRUST



Revisions

| Rev | Date | By | Appr | Description |
|-----|------|----|------|-------------|
| 1 | | | | |
| 2 | | | | |
| 3 | | | | |
| 4 | | | | |
| 5 | | | | |

Horsley Witten Group, Inc.
Sustainable Environmental Solutions
www.horsleywitten.com
90 Route 6A
Sandwich, MA 02563
Phone: 508-833-6600 voice
508-833-6600 fax

Checked By: MW
Drawn By: JLV
Designed By: JLV
Date: JUNE 2024

Plan Set: **SITE HI-3- END OF GROVE STREET
STORMWATER RETROFIT DESIGN AND
IMPLEMENTATION PROJECT - 25% DESIGN**
YARMOUTH, MASSACHUSETTS

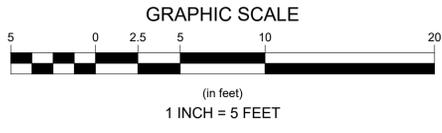
Plan Title: **SITE AND GRADING PLAN**

Prepared For:
Town of Yarmouth
DPW
74 Town Brook Road
West Yarmouth, MA 02673
Phone: (508) 398-2231 ext. 1250
Fax: ----

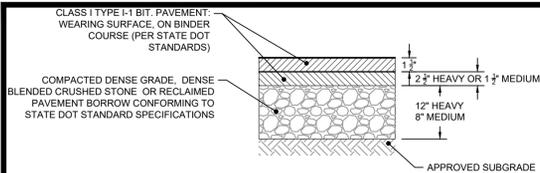
Survey Provided By:
Horsley Witten Group, Inc.
90 Route 6A
Sandwich, MA 02563
Phone: 508-833-6600
Fax: 508-833-3150
Dated: November 27, 2023

Registration:

**DRAFT
NOT FOR
CONSTRUCTION**

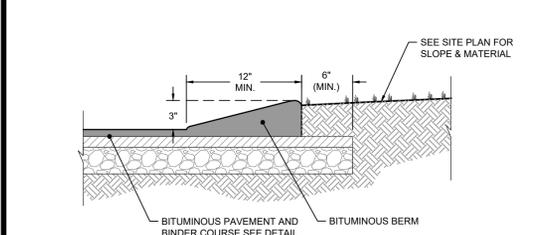


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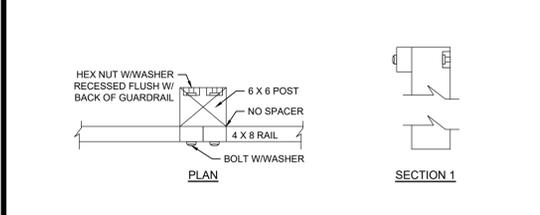
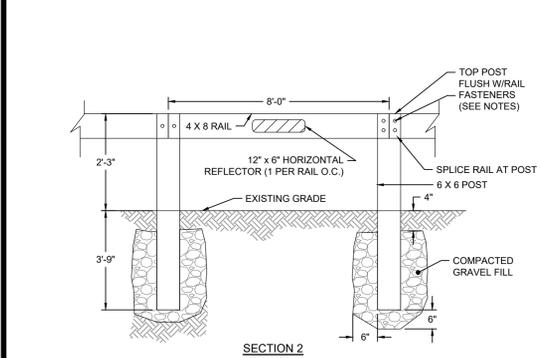
CLASS 1 TYPE 1 BIT. PAVEMENT WEARING SURFACE ON BINDER COURSE (PER STATE DOT STANDARDS) COMPACTED DENSE GRADE, DENSE BLENDED CRUSHED STONE OR RECLAIMED PAVEMENT BORROW CONFORMING TO STATE DOT STANDARD SPECIFICATIONS

BITUMINOUS PAVEMENT
NOT TO SCALE



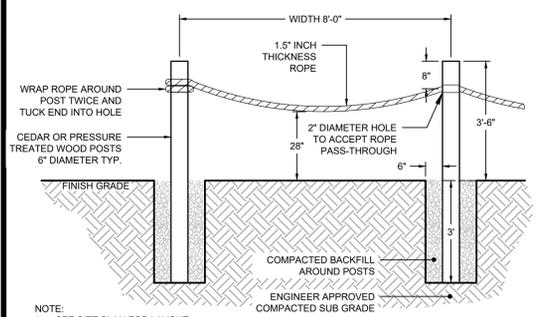
GENERAL NOTES:
1. SUB-GRADE (EXISTING MATERIAL) SHALL CONSIST OF INERT MATERIAL THAT IS HARD, DURABLE STONE AND/OR COARSE SAND, FREE FROM LOAM AND CLAY TO A DEPTH NOT LESS THAN 4-FT BELOW THE FINISH PAVEMENT SURFACE. EXCAVATE SANDY-LOAM AND/OR LOAMY-SAND TOPSOIL MATERIAL FROM ALL PAVED AREAS PRIOR TO SUB-BASE INSTALLATION.
2. PLACE SUB-BASE IN MAXIMUM 8" LIFTS (COMPACTED TO 95%).
3. COMPACT SUB-GRADE FILL TO 85% COMPACTION.
4. SEE SITE LAYOUT PLAN FOR PAVEMENT WIDTH AND LOCATION.
5. SEE GRADING PLANS FOR PAVEMENT SLOPE AND GROSS SLOPE.
6. SWEEP CLEAN THE EXISTING BINDER COURSE SURFACE PRIOR TO INSTALLING THE WEARING COURSE BY A STREET SWEEPING MACHINE.
7. APPLY A TACK COAT PER SPECIFICATIONS.

BITUMINOUS BERM
NOT TO SCALE



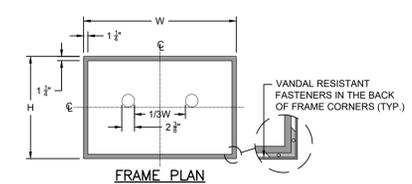
NOTES:
1. SEE SPECIFICATIONS FOR ADDITIONAL INFORMATION.
2. POST AND RAILS TO BE PRESSURE TREATED LUMBER.
3. ALL SPLICES ARE TO BE MADE AT POSTS.
4. BUMPER ANCHORS TO BE RAIL BOLTS WITH NUTS AND WASHER CONNECTION. FASTENERS TO BE HOT DIPPED GALVANIZED OR STAINLESS STEEL MATCHING ASTM A153 AND ASTM A653.
5. THE CONTRACTOR TO INSTALL EITHER TWO 3/4" BOLTS OR ONE 2" BOLT AT EACH RAIL TO POST CONNECTION.
6. COMPACTED GRAVEL FOOTING TO EXTEND AROUND THE ENTIRE POST.

WOODEN GUARDRAIL
NOT TO SCALE



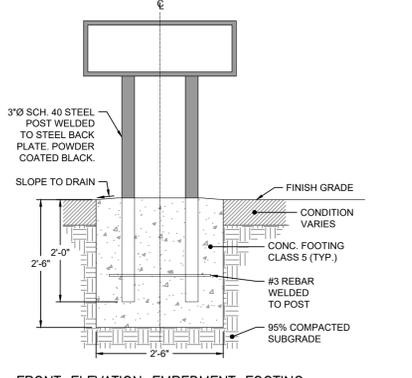
NOTE:
1. SEE SITE PLAN FOR LAYOUT GEOMETRY AND ALIGNMENT.

ROPE FENCE
NOT TO SCALE



FRAMING METHOD 1 (PREFERRED)

1" X 1" X 1/16" THICK ALUM. FRAME WITH ROUNDED EDGE & MITER CUT CORNERS (TYP.) GRAPHICS EMBEDDED IN POLYCARBONATE ON 1/16" THK. ALUM. BACKING 1/8" THK. STEEL BACK PLATE POWDER COATED BLACK



FRAMING METHOD 2 (AS APPROVED)

VENT HOLES FOR ALL SIDES OF FRAME WHEN USED WITH POLYCARBONATE COVER. 6" MIN. O.C. GRAPHICS ON ALUM. BACKING ATTACHED TO STEEL BACK PLATE WITH VELCRO. 1/8" THK. STEEL BACK PLATE POWDER COATED BLACK.

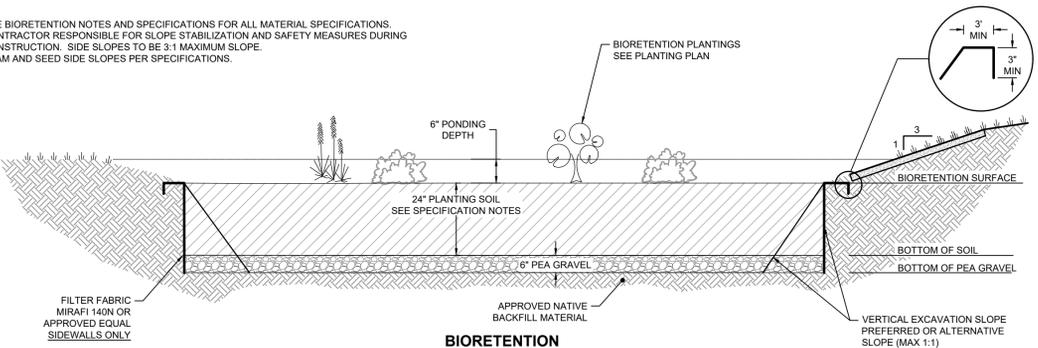
FRONT ELEVATION EMBEDMENT FOOTING METHOD

SIDE ELEVATION EMBEDMENT FOOTING METHOD

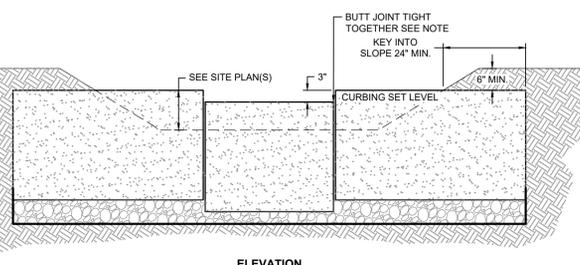
NOTES:
1. PANEL SIZE (WxH): 2'-0"x1'-0", 2'-0"x2'-0", 3'-0"x2'-0", 3'-6"x2'-0" (OR CUSTOM SIZE AS APPROVED).
2. NO FIELD WELDING.
3. CONTRACTOR TO ENSURE THAT DRAINAGE HOLES ARE DRILLED AS SPECIFIED.
4. CONTRACTOR/OWNER TO ENSURE THAT THE GRAPHIC PANEL TYPE MEETS THE SPECIFICATIONS.
5. DELIVER THE FOLLOWING ITEMS TO THE OWNER: FRAME TOUGH UP PAINT, EXTRA VANDAL-RESISTANT FASTENERS AND BITTPOOL, REQUIRED TO INSTALL REMOVE THE FASTENERS.
6. THE COMPLETE SYSTEM, EXCEPT CONCRETE FOOTING, IS AVAILABLE FROM SOLE SOURCE PROPRIETOR: ARTCRAFT DISPLAY GRAPHICS INC. #112-1533 BROADWAY ST., PORT CONQUINTUM, B.C., CANADA V3C 6P3. PHONE: 1-800-994-9451. WWW.ARTCRAFT.COM (OR APPROVED EQUAL).
7. EQUAL PRODUCT TO BE VANDAL RESISTANT AND GRAFFITI RESISTANT. GRAPHIC PANEL TO BE REPLACEABLE, WATERPROOF AND NON-FADING. MATERIALS TO BE RECYCLABLE. PROVIDE 1400 DPI PRINTING RESOLUTION.
8. PROVIDE FINAL GRAPHIC FILES ON CD TO OWNER WITH RECORD DOCUMENT AT PROJECT CLOSE OUT.
9. PROVIDE TEN YEAR MANUFACTURER'S MATERIAL AND WORKMANSHIP WARRANTY ON ALL PRODUCTS.

NOTES:
1. SEE BIORETENTION NOTES AND SPECIFICATIONS FOR ALL MATERIAL SPECIFICATIONS.
2. CONTRACTOR RESPONSIBLE FOR SLOPE STABILIZATION AND SAFETY MEASURES DURING CONSTRUCTION. SIDE SLOPES TO BE 3:1 MAXIMUM SLOPE.
3. LOAM AND SEED SIDE SLOPES PER SPECIFICATIONS.

EDUCATIONAL SIGN
NOT TO SCALE

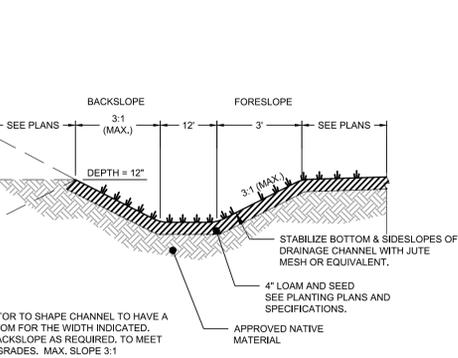


BIORETENTION
NOT TO SCALE



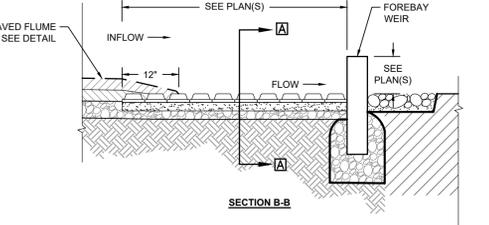
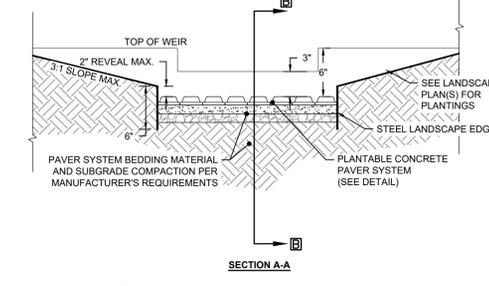
FOREBAY WEIR
NOT TO SCALE

NOTES:
1. USE RECYCLED/RECLAIMED GRANITE CURB WHEN POSSIBLE OR BUTT TIGHTLY TO FACE OF GRANITE CURB.
2. KEY CHECKDAM INTO FOREBAY SIDE SLOPES A MINIMUM OF 24" TO PREVENT FLOW FROM DIVERTING THE CHECK DAM.
3. SEE PLAN(S) FOR CHECKDAM DIMENSIONS AND LAYOUT.



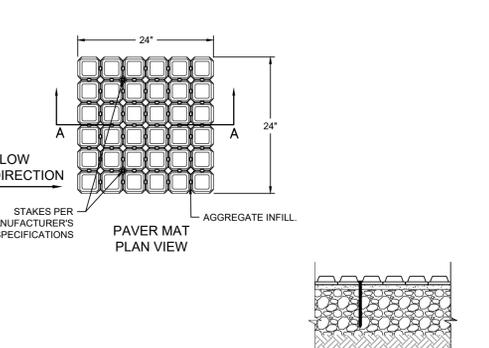
NOTES:
1. CONTRACTOR TO SHAPE CHANNEL TO HAVE A FLAT BOTTOM FOR THE WIDTH INDICATED.
2. ADJUST BACKSLOPE AS REQUIRED, TO MEET EXISTING GRADES. MAX. SLOPE 3:1

OVERFLOW SWALE
NOT TO SCALE



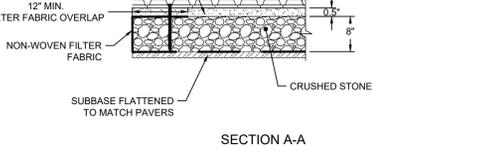
NOTES:
1. SEE PLANTABLE PAVER DETAIL AND SPECIFICATIONS FOR PLANTABLE PAVER REQUIREMENTS.
2. INSTALL PLANTABLE/PERMEABLE PAVER SYSTEM PER MANUFACTURER'S REQUIREMENTS.
3. SHAPE FOREBAY AS REQUIRED WITH MIN. 6" SIDE SLOPE DEPTH. DO NOT EXCEED 3:1 SIDE SLOPES.
4. STEEL LANDSCAPE EDGING TO BE 1/2" THICKNESS HEAVY-DUTY STEEL WITH NATURAL FINISH.

FOREBAY
NOT TO SCALE



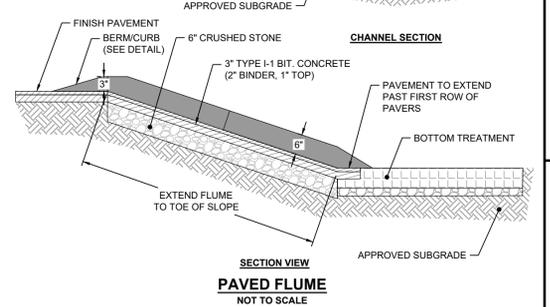
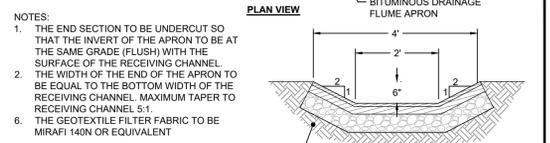
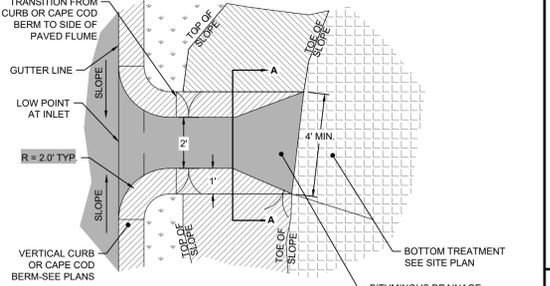
NOTES:
1. SEE SPECIFICATIONS FOR PLANTABLE CONCRETE PAVER REQUIREMENTS.
2. REFER TO MANUFACTURER'S REQUIREMENTS FOR ADDITIONAL INSTALLATION REQUIREMENTS.
3. FILTER FABRIC AROUND PERIMETER AND BOTTOM OF STONE BASE. KEY IN MINIMUM 6".

PLANTABLE CONCRETE PAVERS
NOT TO SCALE

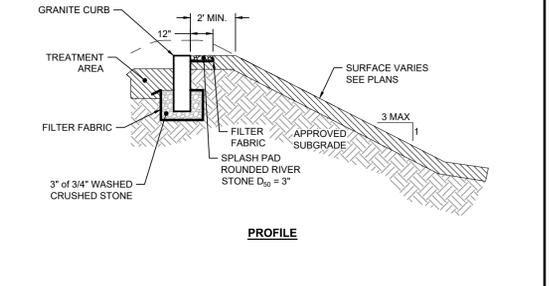


NOTES:
1. KEY CURB A MINIMUM OF 24" INTO COMPACTED BERM TO PREVENT FLOW DIVERSION.
2. SUBGRADE TO BE UNIFORM AND SMOOTH. REMOVE ALL ROCKS, CLODS, VEGETATION OR OTHER OBJECTS.
3. SEED PER SPECIFICATIONS.

LEVEL SPREADER
NOT TO SCALE



PAVED FLUME
NOT TO SCALE



NOTES:
1. KEY CURB A MINIMUM OF 24" INTO COMPACTED BERM TO PREVENT FLOW DIVERSION.
2. SUBGRADE TO BE UNIFORM AND SMOOTH. REMOVE ALL ROCKS, CLODS, VEGETATION OR OTHER OBJECTS.
3. SEED PER SPECIFICATIONS.

PROFILE
NOT TO SCALE

ELEVATION
NOT TO SCALE

Revisions table with columns for Date, By, Description.

Horsley Witten Group, Inc. Sustainable Environmental Solutions. 80 Route 6A, Sandwich, MA 02563. Phone: 508-833-6600. Fax: 508-833-3150.

Site HI-3: END OF GROVE STREET STORMWATER RETROFIT DESIGN AND IMPLEMENTATION PROJECT - 25% DESIGN YARMOUTH, MASSACHUSETTS

Town of Yarmouth DPW. 74 Town Brook Road, West Yarmouth, MA 02873. Phone: (508) 398-2231. Fax: (508) 398-2231.

Survey Provided by: Horsley Witten Group, Inc. 80 Route 6A, Sandwich, MA 02563. Phone: 508-833-6600. Fax: 508-833-3150. Dated: November 27, 2023.

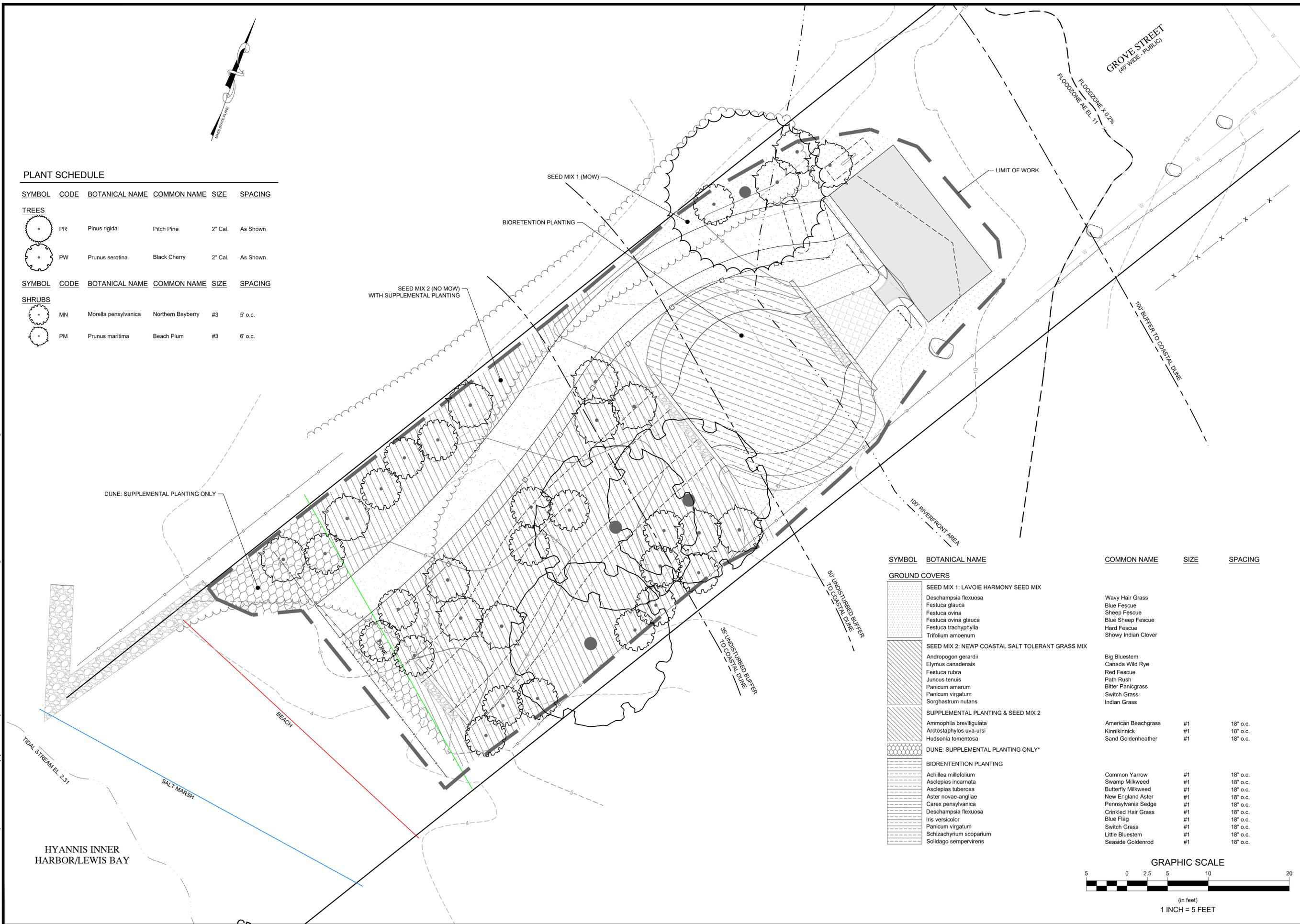
Project Number: 22108A. Sheet: 2 of 4. Sheet Number: C-2. DRAFT NOT FOR CONSTRUCTION.

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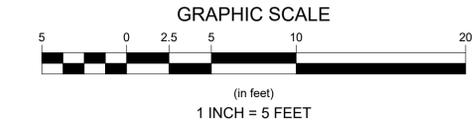


PLANT SCHEDULE

| SYMBOL | CODE | BOTANICAL NAME | COMMON NAME | SIZE | SPACING |
|---------------|------|----------------------|-------------------|---------|----------|
| TREES | | | | | |
| | PR | Pinus rigida | Pitch Pine | 2" Cal. | As Shown |
| | PW | Prunus serotina | Black Cherry | 2" Cal. | As Shown |
| SHRUBS | | | | | |
| | MN | Morella pensylvanica | Northern Bayberry | #3 | 5' o.c. |
| | PM | Prunus maritima | Beach Plum | #3 | 6' o.c. |



| SYMBOL | BOTANICAL NAME | COMMON NAME | SIZE | SPACING |
|----------------------|--|--|--|--|
| GROUND COVERS | | | | |
| | SEED MIX 1: LAVOIE HARMONY SEED MIX Deschampsia flexuosa Festuca glauca Festuca ovina Festuca ovina glauca Festuca trachyphylla Trifolium amoenum | Wavy Hair Grass Blue Fescue Sheep Fescue Blue Sheep Fescue Hard Fescue Showy Indian Clover | | |
| | SEED MIX 2: NEWP COASTAL SALT TOLERANT GRASS MIX Andropogon gerardii Elymus canadensis Festuca rubra Juncus tenuis Panicum amarum Panicum virgatum Sorghastrum nutans | Big Bluestem Canada Wild Rye Red Fescue Path Rush Bitter Panicgrass Switch Grass Indian Grass | | |
| | SUPPLEMENTAL PLANTING & SEED MIX 2 Ammophila breviligulata Arctostaphylos uva-ursi Hudsonia tomentosa | American Beachgrass Kinnikinnick Sand Goldenheather | #1 #1 #1 | 18" o.c. 18" o.c. 18" o.c. |
| | DUNE: SUPPLEMENTAL PLANTING ONLY* | | | |
| | BIORETENTION PLANTING Achillea millefolium Asclepias incarnata Asclepias tuberosa Aster novae-angliae Carex pensylvanica Deschampsia flexuosa Iris versicolor Panicum virgatum Schizachyrium scoparium Solidago sempervirens | Common Yarrow Swamp Milkweed Butterfly Milkweed New England Aster Pennsylvania Sedge Crinkled Hair Grass Blue Flag Switch Grass Little Bluestem Seaside Goldenrod | #1 #1 #1 #1 #1 #1 #1 #1 #1 #1 | 18" o.c. 18" o.c. 18" o.c. 18" o.c. 18" o.c. 18" o.c. 18" o.c. 18" o.c. 18" o.c. 18" o.c. |



| Revisions | Date | By | Appr. | Description |
|-----------|------|----|-------|-------------|
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| | | | | |

Horsley Witten Group, Inc.
Sustainable Environmental Solutions
80 Route 6A, Unit 1
Sandwich, MA 02563
508-833-6600 phone
508-833-3150 fax

Checked By: MBE
Designed By: KJK
Date: JUNE 2024

PLANTING PLAN
SITE HIH-3: END OF GROVE STREET
STORMWATER RETROFIT DESIGN AND
IMPLEMENTATION PROJECT - 25% DESIGN
YARMOUTH, MASSACHUSETTS

Prepared For:
Town of Yarmouth DPW
74 Town Brook Road
West Yarmouth, MA
02873
Phone: (508) 398-2231
ext. 1250
Fax: ---

Survey Provided By:
Horsley Witten Group, Inc.
80 Route 6A
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GENERAL PLANTING NOTES:

- THE FOLLOWING NOTES ARE PROVIDED AS GENERAL PLANTING GUIDELINES ONLY. THOROUGHLY REVIEW THE PROJECT SPECIFICATIONS FOR ALL LANDSCAPE REQUIREMENTS PRIOR TO THE COMMENCEMENT OF ANY LANDSCAPE WORK. SUBMIT IN WRITING TO THE LANDSCAPE ARCHITECT ANY QUESTIONS OR CLARIFICATIONS REQUIRED AT A MINIMUM OF 30 DAYS PRIOR TO ORDERING ANY MATERIALS OR BEGINNING ANY LANDSCAPE CONSTRUCTION.
- SUBMIT TO THE LANDSCAPE ARCHITECT FOR REVIEW AND APPROVAL ALL REQUIRED LANDSCAPE SUBMITTALS AS DESCRIBED IN THE SPECIFICATIONS INCLUDING A PLANT LIST WITH PLANT SIZE AND QUANTITIES TO BE ORDERED PRIOR TO DELIVERY TO THE PROJECT SITE.
- FURNISH AND INSTALL ALL PLANTS AS SHOWN ON THE DRAWINGS AND IN THE SIZE AND QUANTITIES SPECIFIED ON THE PLANTING SCHEDULE. PLANT SUBSTITUTION SELECTION MUST BE APPROVED BY BIOLOGIST OR LANDSCAPE ARCHITECT PRIOR TO INSTALLATION.
- ALL PLANTS TO COMPLY WITH APPLICABLE REQUIREMENTS OF ANSI Z60.1 "AMERICAN STANDARD FOR NURSERY STOCK," LATEST EDITION, PUBLISHED BY THE AMERICAN NURSERY AND LANDSCAPE ASSOCIATION INC.
- PLANTS TO BE GROWN UNDER CLIMATIC CONDITIONS SIMILAR TO THOSE IN THE LOCALITY OF THE PROJECT FOR AT LEAST TWO (2) YEARS. USE HEALTHY NURSERY GROWN PLANTS THAT HAVE A WELL DEVELOPED ROOT SYSTEM. PLANTS MUST BE FREE OF DISEASE, INSECTS, EGGS OR LARVAE.
- INSTALL PLANTS WITHIN ONE (1) WEEK OF PURCHASE. IF PLANTS ARE TO BE STORED AT THE SITE PRIOR TO PLANTING, IT IS THE CONTRACTOR'S RESPONSIBILITY TO ENSURE THEY ARE PROPERLY MAINTAINED, WATERED, AND REMAIN HEALTHY.
- PROCEED WITH PLANTING ONLY WHEN EXISTING AND FORECASTED WEATHER CONDITIONS PERMIT. SUBMIT TO THE LANDSCAPE ARCHITECT IN WRITING THE PROPOSED PLANTING SCHEDULE. OBTAIN APPROVAL OF PLANTING SCHEDULE FROM THE LANDSCAPE ARCHITECT PRIOR TO PERFORMING ANY WORK.
- SEASONS FOR PLANTING:

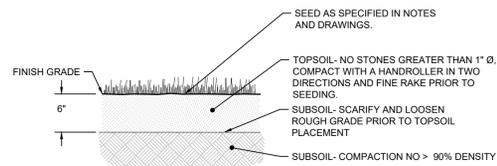
| | | |
|---------|---------------|-----------------------------|
| SPRING: | DECIDUOUS: | APRIL 1 TO JUNE 15 |
| | EVERGREEN: | APRIL 1 TO JUNE 15 |
| | PERENNIALS: | APRIL 15 TO JUNE 1 |
| | GROUNDCOVERS: | APRIL 15 TO JUNE 1 |
| FALL: | DECIDUOUS: | SEPTEMBER 15 TO NOVEMBER 15 |
| | EVERGREEN: | SEPTEMBER 15 TO NOVEMBER 15 |
| | PERENNIALS: | SEPTEMBER 15 TO NOVEMBER 15 |
| | GROUNDCOVERS: | SEPTEMBER 15 TO NOVEMBER 15 |
- PLANTING UNDER FROZEN CONDITIONS WILL NOT BE PERMITTED. PLANTING BEFORE OR AFTER THE ABOVE REFERENCED PLANTING DATES WILL INCREASE THE LIKELIHOOD OF PLANT ESTABLISHMENT FAILURE. ANY DEVIATION FROM THE ABOVE REFERENCED PLANTING DATES IS UNDERTAKEN AT SOLE RISK OF THE CONTRACTOR AND IT IS THE RESPONSIBILITY OF THE CONTRACTOR TO PROVIDE ANY ADDITIONAL MAINTENANCE AND WATERING WHICH MAY BE REQUIRED TO ENSURE SATISFACTORY PLANT ESTABLISHMENT.
- FURNISH ONE YEAR MANUFACTURER WARRANTY FOR TREES, PLANTS, AND GROUND COVER AGAINST DEFECTS INCLUDING DEATH AND UNSATISFACTORY GROWTH. EXCEPTIONS ARE DEFECTS RESULTING FROM LACK OF ADEQUATE MAINTENANCE, NEGLIGENCE OR ABUSE BY OWNER, OR ABNORMAL WEATHER CONDITIONS UNUSUAL FOR WARRANTY PERIOD. THE DATE OF FINAL ACCEPTANCE OF ALL COMPLETED PLANTING WORK ESTABLISHES THE END OF INSTALLATION AND INITIAL MAINTENANCE PERIOD AND THE COMMENCEMENT OF THE GUARANTEE PERIOD.
- ALL TREES WITHIN 5'-0" OF WALKWAYS AND SIDEWALKS TO HAVE A 6'-8" STANDARD BRANCHING HEIGHT.
- INSPECT ALL AREAS TO BE PLANTED OR SEEDED PRIOR TO STARTING ANY LANDSCAPE WORK. REPORT ANY DEFECTS SUCH AS INCORRECT GRADING, INCORRECT SUBGRADE ELEVATIONS OR DRAINAGE PROBLEMS, ETC. TO THE LANDSCAPE ARCHITECT AND ENGINEER PRIOR TO BEGINNING WORK. COMMENCEMENT OF WORK INDICATES ACCEPTANCE OF SUBGRADE AREAS TO BE PLANTED, AND THE LANDSCAPE CONTRACTOR ASSUMES RESPONSIBILITY FOR ALL LANDSCAPE WORK.
- PROVIDE PROPER PREPARATION OF ALL PROPOSED PLANTED AND SEEDED AREAS PER THE NOTES AND SPECIFICATIONS.
- ALL PLANT LAYOUT AND ACTUAL PLANTING LOCATIONS ARE TO BE FIELD VERIFIED BY LANDSCAPE ARCHITECT PRIOR TO PLANTING. NOTIFY THE LANDSCAPE ARCHITECT AT A MINIMUM OF 48 HOURS IN ADVANCE PRIOR TO SCHEDULING ANY FIELD INSPECTIONS.
- BALL AND BURLAP: REMOVE BURLAP AND WIRE BASKETS FROM TOPS OF BALLS AND FROM TOP HALF OF ROOTBALL AS INDICATED ON DRAWINGS. REMOVE PALLETS, IF ANY, BEFORE SETTING.
- POTTED PLANTS: REMOVE THE PLANT FROM THE POT AND LOOSEN OR SCORE THE ROOTS BEFORE PLANTING TO PROMOTE OUTWARDS ROOT GROWTH INTO THE SOIL.
- PLUGS: PLANT UPRIGHT AND NOT AT AN ANGLE. DIG PLANTING HOLES LARGE ENOUGH AND DEEP ENOUGH TO ACCOMMODATE THE ENTIRE ROOT MASS. PLANT PLUGS WITH NO TWISTED OR BALLED ROOTS AND WITH NO ROOTS EXPOSED ABOVE THE GRADE LINE. HAND PACK THE SOIL AROUND THE ENTIRE PLUG ROOT MASS.
- DIG THE THE PLANTING HOLE TO THE SAME DEPTH AS THE ROOT BALL AND TWO TO THREE TIMES WIDER. SCORE ALL SIDES OF THE HOLE, PLACE THE PLANT IN THE HOLE SO THE TOP OF ROOT BALL IS EVEN WITH SOIL SURFACE. FILL THE HOLE HALF-WAY AND THEN ADD WATER ALLOWING IT TO SEEP INTO BACK FILLED MATERIAL. BE SURE TO REMOVE ALL AIR POCKETS FROM BACK FILLED SOIL. DO NOT SPREAD SOIL ON TOP OF THE ROOTBALL. IF SOIL IS EXTREMELY POOR, REPLACE BACK FILL WITH GOOD QUALITY TOP SOIL. AMEND THE SOIL, AS NECESSARY.
- CREATE A 2" TO 4" BERM AROUND THE EDGE OF PLANTING HOLE WITH REMAINING SOIL TO RETAIN WATER.
- REMOVE ALL PLANT TAGS AND FLAGS FROM THE PLANTS.
- MULCH ALL PLANTING BEDS AS INDICATED ON DRAWINGS. UNLESS NOTED OTHERWISE, ALL PLANTS TO RECEIVE 2-3 INCHES OF MULCH. DO NOT PILE OR MOUND MULCH AROUND THE PLANT STEMS OR TRUNK.
- TRIM BROKEN AND DEAD BRANCHES FROM TREES AND SHRUBS AFTER PLANTING. NEVER CUT A LEADER.
- MINIMIZE THE USE OF PHOSPHORUS AND NITROGEN CONTAINING FERTILIZERS, DURING PLANTING AND MAINTENANCE OF THE LANDSCAPING OR LAWN AREAS. ADDITIONALLY, DO NOT USE PESTICIDES, OR HERBICIDES CONTAINING INORGANIC COMPOUNDS (IOC) AS LISTED IN THE MASSACHUSETTS DRINKING WATER REGULATION (310 CMR 22.06), OR SYNTHETIC ORGANIC COMPOUNDS (SOC) OR VOLATILE ORGANIC COMPOUNDS (VOC) AS LISTED IN THE MASSACHUSETTS DRINKING WATER REGULATION (310 CMR 22.07).

GENERAL SEEDING NOTES:

- SEND A REPRESENTATIVE SAMPLE OF THE TOPSOIL TO A TESTING LABORATORY FOR STANDARD SOIL ANALYSIS AS DESCRIBED IN THE SPECIFICATIONS. SUBMIT TO THE LANDSCAPE ARCHITECT AND ENGINEER TEST RESULTS WITH RECOMMENDED SOIL TREATMENTS TO PROMOTE PLANT AND GRASS GROWTH. CORRECT DEFICIENCIES IN THE LOAM AND STOCKPILED TOPSOIL AS DIRECTED BY THE TESTING AGENCY.
- ALL AREAS THAT ARE DISTURBED AND/OR GRADED DURING CONSTRUCTION ARE TO BE BROUGHT TO FINISHED GRADE WITH AT LEAST 4" MINIMUM DEPTH OF GOOD QUALITY LOAM AND SEEDED WITH A QUICK GERMINATING GRASS SEED SUCH AS NEW ENGLAND EROSION CONTROL RESTORATION MIX OR AS SPECIFIED ON THE PLANS.
- PRIOR TO THE PLACEMENT OF TOP SOIL, LOOSEN THE SUBGRADE OF ALL PROPOSED SEEDED AREAS TO A DEPTH OF 6" AND RAKE TO REMOVE STONES LARGER THAN 1 INCH, STICKS, ROOTS, RUBBISH AND OTHER EXTRANEIOUS MATTER AND LEGALLY DISPOSE TO AN OFF SITE LOCATION.
- DO NOT SPREAD TOPSOIL IF THE SUBGRADE IS FROZEN, EXCESSIVELY WET, COMPACTED OR NOT PROPERLY PREPARED PER THE NOTES AND SPECIFICATIONS.
- SEE SPECIFICATIONS FOR SEASONAL REQUIREMENTS FOR SEEDING.

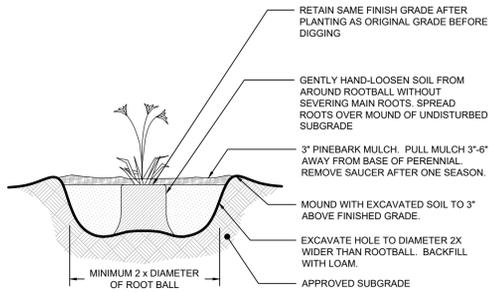
WATERING NOTES:

- PROVIDE PROPER PLANT CARE, MAINTENANCE AND WATERING ON SITE UNTIL SUCH TIME AS THE LANDSCAPING IS ACCEPTED BY THE PROPERTY OWNER AS SATISFACTORY PER THE SPECIFICATIONS OR AS DETERMINED BY ANY WRITTEN AGREEMENTS BETWEEN THE CONTRACTOR AND PROPERTY OWNER.
- ESTABLISH AN APPROPRIATE WATERING SCHEDULE FOR ALL PLANT MATERIAL BASED UPON PLANT SPECIES REQUIREMENTS AND SITE CONDITIONS. PROVIDE SCHEDULE IN WRITING TO THE LANDSCAPE ARCHITECT AND OWNER FOR REVIEW AND APPROVAL. ADHERE TO THE APPROVED SCHEDULE UNTIL PLANTS ARE FULLY ESTABLISHED.
- AT A MINIMUM THE NEWLY SEEDED AND/OR HYDROSEEDED AREAS SHOULD BE WATERED DAILY. SPECIAL CARE SHOULD BE TAKEN TO ENSURE THAT THE AREA IS NOT SATURATED DURING WATERING. IF AN IRRIGATION SYSTEM IS NOT PROVIDED, A TEMPORARY IRRIGATION SYSTEM OR HANDHELD GARDEN HOSE SHALL BE USED FOR WATERING SEEDED AREAS. THE AREA MUST BE MAINTAINED CONSISTENTLY MOIST FOR THE BEST GERMINATION RESULTS. ADDITIONAL WATERING MAY BE REQUIRED IF PLANTING AND SEEDING OCCUR OUTSIDE OF THE RECOMMENDED PLANTING SEASONS.

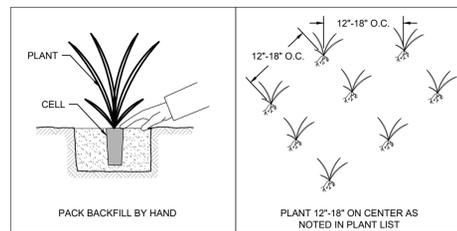


- NOTES:
- SEE LANDSCAPE GRADING SPECIFICATIONS FOR TOPSOIL REQUIREMENTS.
 - CONFIRM SUBGRADES ARE CORRECT AND POSITIVE DRAINAGE IS MAINTAINED PRIOR TO PLACEMENT OF TOPSOIL.
 - NOTIFY ENGINEER/LANDSCAPE ARCHITECT FOR REVIEW OF SUBGRADE PRIOR TO PLACEMENT OF THE TOPSOIL.

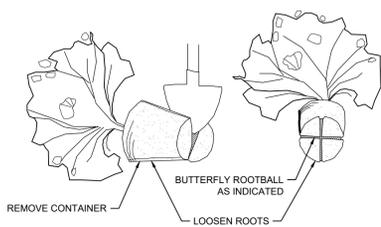
LOAM AND SEED
NOT TO SCALE



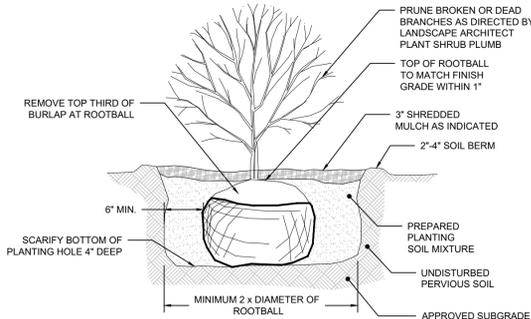
PERENNIAL CONTAINER PLANTING
NOT TO SCALE



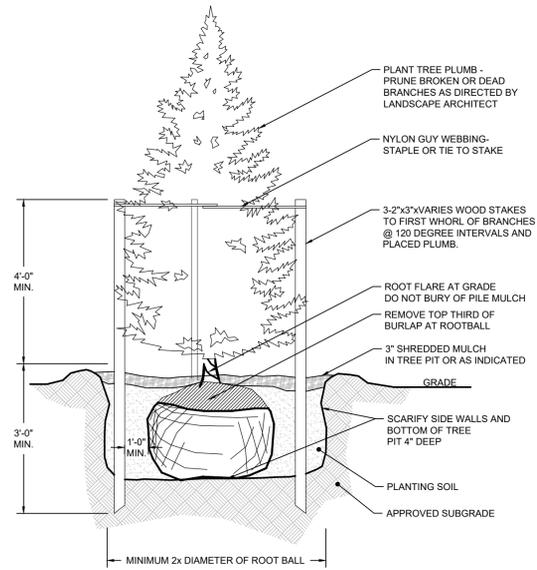
PERENNIAL PLUG PLANTING
NOT TO SCALE



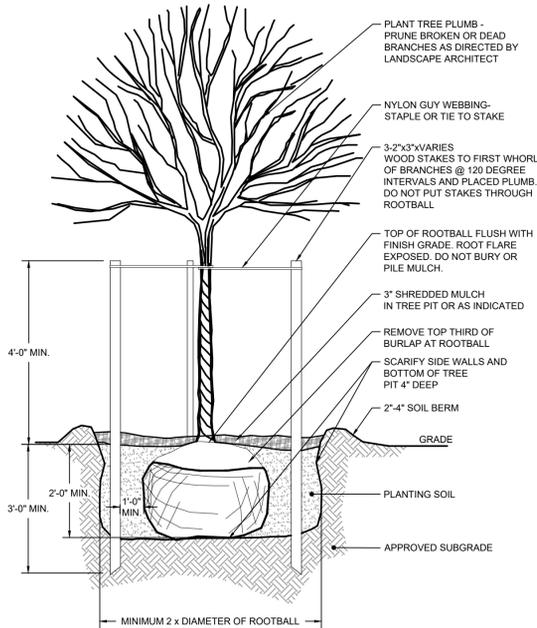
CONTAINER PLANT ROOTBALL TREATMENT
NOT TO SCALE



SHRUB PLANTING
NOT TO SCALE



EVERGREEN TREE PLANTING
NOT TO SCALE



DECIDUOUS TREE PLANTING
NOT TO SCALE

| Rev. | Date | By | Appr. | Description |
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Checked By: MBE
Drawn By: KJK
Designed By: KJK
Date: JUNE 2024

Plan Set: **SITE HIH-3: END OF GROVE STREET STORMWATER RETROFIT DESIGN AND IMPLEMENTATION PROJECT - 25% DESIGN YARMOUTH, MASSACHUSETTS**

Plan Title: **PLANTING DETAILS**

Prepared For:
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Dated: November 27, 2023

Registration:

DRAFT NOT FOR CONSTRUCTION

Project Number: 22108A
Sheet: 4 of 4