

# Marginal Way Storm Repairs

Marginal Way  
Ogunquit, Maine 03907

Prepared For:

Town of Ogunquit  
Marginal Way Committee  
25 School Street P.O. Box 875  
Ogunquit, Maine 03907

January 13, 2020

## Design Consultants:

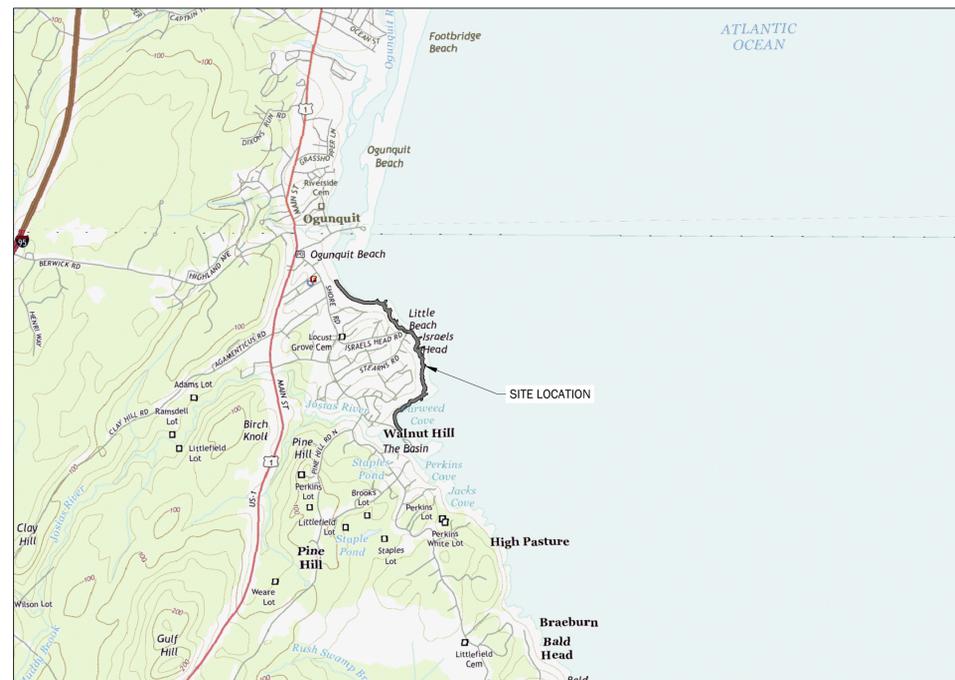
CIVIL ENGINEER  
WALSH ENGINEERING ASSOCIATES, INC.  
ONE KAREN DRIVE, SUITE 2A  
WESTBROOK, MAINE 04092  
207-553-9898

**WALSH**  
ENGINEERING ASSOCIATES, INC.

One Karen Dr., Suite 2A | Westbrook, Maine 04092  
ph: 207.553.9898 | www.walsh-eng.com

## List of Drawings:

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C2.2a	PROJECT #34 LITTLE BEACH OUTFALL
C2.4b	PROJECT #4 NORTH OF LIGHTHOUSE - PAVEMENT & REVETMENT
C2.7a	PROJECT #29 DEVIL'S KITCHEN EMBANKMENT NORTH
C2.7b	PROJECT #29 DEVIL'S KITCHEN EMBANKMENT SOUTH
C2.11	PROJECT #12 & #13 BENCH 30 TO 31
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C2.15	PROJECT #32 CEDAR GROVE
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C3.0	SITE DETAILS
C3.1	SITE DETAILS



GRAPHIC SCALE  
2,000 0 2,000  
1 inch = 2,000ft.

## Record Owner:

TOWN OF OGUNQUIT  
25 SCHOOL STREET P.O. BOX 875  
OGUNQUIT, MAINE 03907

**GENERAL NOTES:**

- THE CONTRACTOR SHALL BE RESPONSIBLE FOR NOTIFYING "DIG SAFE" AND LOCAL UTILITY COMPANIES AT LEAST THREE (3) BUSINESS DAYS, BUT NOT MORE THAN 30 CALENDAR DAYS, PRIOR TO THE COMMENCEMENT OF ANY EXCAVATION, IN ACCORDANCE WITH MAINE STATE LAW. "DIG SAFE" TELEPHONE NUMBER IS 811.
- THE CONTRACTOR SHALL BE SOLELY RESPONSIBLE FOR ALL AND ANY MEANS, METHODS, AND TECHNIQUES EMPLOYED TO PERFORM THE WORK SHOWN ON THE PLANS.
- ALL WORK SHALL COMPLY WITH ALL LOCAL, STATE, AND FEDERAL REGULATIONS INCLUDING ALL SAFETY REGULATIONS (OSHA).
- ALL WORK SHALL BE IN CONFORMANCE ALL UTILITY COMPANIES STANDARDS.
- THE CONTRACTOR SHALL SECURE ALL NECESSARY PERMITS FOR THE WORK SHOWN ON THESE PLANS PRIOR TO CONSTRUCTION.
- ALL PAVEMENT/CONCRETE CUTS SHALL BE SAW CUT TO RESULT IN CLEAN EDGES. A TACK COAT SHALL BE APPLIED ALONG THE PAVEMENT CUT EDGES AND THE NEW PAVEMENT BUTTED TO IT, UNLESS OTHERWISE DIRECTED BY THE OWNER OR OWNER'S REPRESENTATIVE.
- ALL WORK SHALL COMPLY WITH THE TOWN OF OGUNQUIT STREET OPENING PERMIT REQUIREMENTS.
- APPROPRIATE EROSION CONTROL MEASURES SHALL BE INSTALLED PRIOR TO ANY SITE EXCAVATION OR REGRADING. REFER TO THE EROSION CONTROL PLAN AND DRAWINGS FOR FURTHER EROSION CONTROL GUIDELINES.
- CONTRACTOR SHALL VERIFY ALL EXISTING CONDITIONS SHOWN ON THE DRAWINGS. IF ANY DISCREPANCIES ARE FOUND, THE OWNER OR OWNER'S REPRESENTATIVE SHALL BE NOTIFIED IMMEDIATELY.
- CONTRACTOR MUST LEGALLY DISPOSE OF CONSTRUCTION AND DEMOLITION DEBRIS, STUMPS, BRUSH AND WOOD WASTE, BITUMINOUS ASPHALT, ETC. IN A MANNER THAT MEET ALL REQUIREMENTS OF MDEP SOLID WASTE RULES, CHAPTER 404, AS AMENDED, WASTE REMOVAL SHALL BE PERFORMED BY WASTE HAULERS LICENSED BY THE STATE OF MAINE IN ACCORDANCE WITH MAINE DEP NON-HAZARDOUS WASTE TRANSPORTER RULES AND ALL APPLICABLE TOWN, STATE AND FEDERAL REGULATIONS.
- ALL STORM DRAINAGE PRODUCTS AND MATERIALS TO COMPLY WITH TOWN ORDINANCE.
- ELEVATIONS SHOWN ARE TIED TO NAVD88 VERTICAL DATUM.
- ALL BEARINGS ARE REFERENCED TO NAD83 MAINE STATE PLANE WEST ZONE GRID NORTH.
- THE LOCATION OF ABUTTING PROPERTY LINES OBTAINED FROM MAINE OFFICE OF GIS "PARCEL TILES BY TOWN" DATA CATALOG. THESE LINES ARE INTENDED TO SHOW THE APPROXIMATE RELATIONSHIP TO THE LOCUS PARCEL ONLY.

**LAYOUT, MATERIALS, AND UTILITY NOTES:**

- ALL DIMENSIONS, LOCATIONS AND CONTROLS SHALL BE VERIFIED IN THE FIELD BY THE CONTRACTOR PRIOR TO ANY CONSTRUCTION ACTIVITIES. ANY DISCREPANCIES SHALL BE REPORTED IMMEDIATELY TO THE OWNER OR OWNER'S REPRESENTATIVE AND TO THE ENGINEER.
- DO NOT SCALE THE DRAWINGS FOR REQUIRED DIMENSIONS. ANY DISCREPANCIES IN DIMENSIONING SHALL BE REPORTED IMMEDIATELY TO THE OWNER'S REPRESENTATIVE.
- ALL ANGLES ARE 90 DEGREES UNLESS OTHERWISE SHOWN.
- ALL EDGES OF PAVING SHALL BE STAKED OUT BY THE CONTRACTOR AND REVIEWED BY THE OWNER'S REPRESENTATIVE PRIOR TO CONSTRUCTION.
- PROVIDE A SMOOTH TRANSITION WHERE NEW WORK MEETS EXISTING.
- ALL DISTURBED AREAS NOT OTHERWISE TREATED SHALL BE LOAMED AND SEEDED.
- CENTERLINES OF DRIVEWAY AND WALKWAY, PROPOSED PARKING LOTS AND PROPOSED UTILITY LINES SHALL BE LOCATED AND LAID OUT BY PROFESSIONALLY LICENSED SURVEYOR.
- SEE LANDSCAPING PLAN FOR NON-PAVED AREA SURFACE TREATMENTS AND CONCRETE PAVER PATTERN LAYOUTS.

**GRADING, DRAINAGE AND UTILITIES NOTES:**

- PRIOR TO ANY CONSTRUCTION ACTIVITIES, CONTRACTOR SHALL VERIFY ALL AFFECTED GRADES. ANY DISCREPANCIES SHALL BE REPORTED IMMEDIATELY TO THE OWNER OR OWNER'S REPRESENTATIVE.
- ALL AREAS NOT REQUIRING GRADING SHALL BE LEFT UNDISTURBED. CONTRACTOR SHALL NOT DISTURB THESE AREAS AND PRESERVE EXISTING VEGETATION.
- GRADE ALL NEW WORK FOR POSITIVE DRAINAGE AND NO PUDDLING. MATCH EXISTING GRADES SMOOTHLY AND CONTINUOUSLY.
- DRAINAGE AT TERMINUS OF CURBING SHALL BE RIP-RAPPED UNLESS OTHERWISE SPECIFIED OR NOTED ON THE PLANS, OR AS DIRECTED BY THE OWNER OR OWNER'S REPRESENTATIVE.
- OWNER AND PROJECT ENGINEER WILL BE CLOSELY MONITORING FINISH GRADING IN THE FIELD. CONTRACTOR SHALL PERFORM FINISH WORK AS DIRECTED BY THE OWNER OR PROJECT ENGINEER TO ACHIEVE THE FINISH GRADE CONDITIONS SHOWN ON THE PLANS.
- UTILITIES SHALL BE INSTALLED PRIOR TO ROAD CONSTRUCTION SO AS TO AVOID RE-EXCAVATION OF THE FINISHED ROADS.

**EROSION CONTROL NOTES:**

- THE CONTRACTOR SHALL INSTALL ALL EROSION AND SEDIMENTATION CONTROL MEASURES PRIOR TO CONSTRUCTION. ALL EROSION CONTROL MEASURES SHALL BE INSTALLED IN ACCORDANCE WITH THE DRAWINGS, SPECIFICATIONS.
- THE CONTRACTOR SHALL COMPLY WITH THE MAINE EROSION AND SEDIMENT CONTROL BMPs MANUAL AS PUBLISHED BY THE MAINE DEPARTMENT OF ENVIRONMENTAL PROTECTION'S BUREAU OF LAND AND WATER QUALITY, MARCH 2003 OR LATEST EDITION.
- ALL EROSION CONTROL MEASURES SHALL BE INSTALLED PRIOR TO ANY SITE EXCAVATION OR REGRADING. ALL DISTURBED AREAS ON SITE NOT COVERED BY BUILDINGS OR PAVED AREAS SHALL BE STABILIZED WITH LOAM AND SEED, OR BY OTHER METHODS AS REQUIRED BY THE WRITTEN EROSION CONTROL PLAN.
- DISTURBED AREAS SHALL BE LIMITED TO ONLY THOSE AREAS UNDER ACTIVE CONSTRUCTION. FOR DISTURBED AREAS THAT ARE NOT UNDER ACTIVE CONSTRUCTION AND THAT CAN NOT YET UNDERGO FINAL GRADING, INSTALL TEMPORARY SEEDING AND MULCHING (REFER TO WRITTEN EROSION CONTROL PLAN).
- PERMANENT SEEDING OR STABILIZATION SHALL BE CARRIED OUT IMMEDIATELY AFTER FINAL GRADING IS COMPLETED, OR TEMPORARY MEASURES SHALL BE APPLIED SUCH AS MULCHING OR SEEDING UNTIL PERMANENT STABILIZATION MEASURES ARE IN PLACE.
- TOPSOIL SHALL BE STOCKPILED IN AREAS AWAY FROM PROTECTED NATURAL RESOURCES AND IN AREAS WHICH HAVE A MINIMAL POTENTIAL FOR EROSION; REFER TO OWNER FOR LOCATION OF MATERIAL STOCKPILE.
- ALL EROSION CONTROL MEASURES SHALL BE ROUTINELY INSPECTED AND REPAIRED IN ACCORDANCE WITH THE WRITTEN EROSION CONTROL PLAN FOR THE DURATION OF THE PROJECT UNTIL ALL AREAS ARE STABILIZED. REMOVE ACCUMULATED SILT AND SEDIMENT AS NEEDED AND MAINTAIN SILT FENCE IN GOOD, OPERABLE CONDITION.

**PLAN REFERENCES:**

- TOPOGRAPHIC AND PROPERTY BOUNDARY INFORMATION TAKEN FROM A COMPILATION OF THE FOLLOWING:
  - FIELD OBSERVATIONS, GPS SURVEY & DRONE SURVEY BY WALSH ENGINEERING ASSOCIATES, INC. ON MAY 17, 2018.
  - 3IN 2012 ORTHOIMAGE TILES WITH INDEX OBTAINED FROM THE MAINE OFFICE OF GIS GEOLIBRARY ORTHOIMAGERY VIEWER ON MAY 25, 2018.
  - PARCELS TILED BY TOWN OBTAINED FROM MAINE OFFICE OF GIS DATA CATALOG ON MAY 25, 2018.
  - PEDESTRIAN ACCESS POINT NAMES AND BENCH NUMBERING OBTAINED FROM MARGINAL WAY MAPS BY THE TOWN OF OGUNQUIT, MAINE.

**PARCEL INFORMATION:**

- OWNER OF RECORD: TOWN OF OGUNQUIT
  - SHORELAND ZONE: RESOURCE PROTECTION - FEMA FLOODPLAIN (RP)
- \*SHORELAND ZONING STANDARDS FROM TOWN OF OGUNQUIT ZONING ORDINANCE, DATED APRIL 4, 1998, AMENDED JUNE 12, 2018.

**EFFECTIVE FLOOD ZONE INFORMATION:**

- CLASSIFICATION: ZONE A2 (EL = 14'), V2 (EL = 13'), V2 (EL = 14'), V2 (EL = 15'), V2 (EL = 17'), V2 (EL = 19'), V2 (EL = 21'), V2 (EL = 23'), V2 (EL = 24'), V2 (EL = 25').
- FLOOD INSURANCE RATE MAP COMMUNITY PANEL NUMBER 230632 0003 C
- EFFECTIVE DATE: JULY 15, 1992

**PRELIMINARY FLOOD ZONE INFORMATION:**

- CLASSIFICATION: ZONE VE (EL = 20'), VE (EL = 21'), VE (EL = 22'), VE (EL = 31').
- FLOOD INSURANCE RATE MAP COMMUNITY PANEL NUMBER 230632 0677 G
- REVISED PRELIMINARY: APRIL 14, 2017

**LEGEND**

EXISTING	BOUNDARY	NEW	EXISTING	UTILITIES	NEW
	CL ALIGNMENT PROPERTY LINE RIGHT-OF-WAY LINE EASEMENT LINE PROPERTY SETBACK MONUMENT (IRON) MONUMENT (STONE) MONUMENT (CONCRETE) STONE PILE (CALL FOR CORNER) FENCE POST (CALL FOR CORNER) ABUTTING PROPERTY LINE STONEMALL (BOUNDARY)			STORM DRAIN MANHOLE STORM DRAIN CATCH BASIN STORM DRAIN LINE STORM DRAIN CULVERT RIP RAP IN/OUT PROTECTION APRON SANITARY SEWER MANHOLE SANITARY SEWER CLEANOUT SANITARY SEWER LINE SANITARY FORCE MAIN WATERLINE HYDRANT WATER LINE METER PIT WATER LINE GATE VALVE WATER LINE P.I.V. WATER LINE SHUT-OFF VALVE WATER LINE MANHOLE POTABLE WATER WELL	
	GRADING INTERMEDIATE CONTOUR INDEX CONTOUR SPOT GRADE FLOW ARROW			GAS LINE GAS LINE GATE VALVE GAS LINE METER ELECTRIC LINE OVERHEAD ELECTRIC LINE UNDERGROUND ELECTRIC LINE ELECTRIC MANHOLE ELECTRIC BOX ELECTRIC TRANSFORMER ELECTRIC METER BOLLARD LIGHT WALL LIGHT LIGHT POLE TELEPHONE LINE TELEPHONE MANHOLE STEAM LINE UNDERDRAIN ROOFDRAIN FOUNDATION DRAIN UTILITY POLE OVERHEAD UTILITY UNDERGROUND UTILITY	
	EROSION CONTROLS SILT FENCE EROSION CONTROL BERM TURF REINFORCEMENT MATTING CATCH BASIN INLET PROTECTION STONE CHECK DAM			PAVEMENT EDGE OF PAVEMENT EDGE OF GRAVEL EDGE OF CONCRETE EDGE OF PERVIOUS PAVERS CONCRETE PAVERS EDGE OF BRICK BITUMINOUS CURB GRANITE CURB	
	VEGETATION TREE STUMP BUSH/SHRUB TREE/BRUSH LINE TREE			BUILDINGS, FENCES, TERRAIN, MATERIAL, LANDSCAPING BUILDING FENCE METAL FENCE WOOD GUARD RAIL RIPRAP LANDSCAPE/RETAINING WALL	



**Marginal Way Storm Repairs**  
Marginal Way  
Ogunquit, Maine 03907

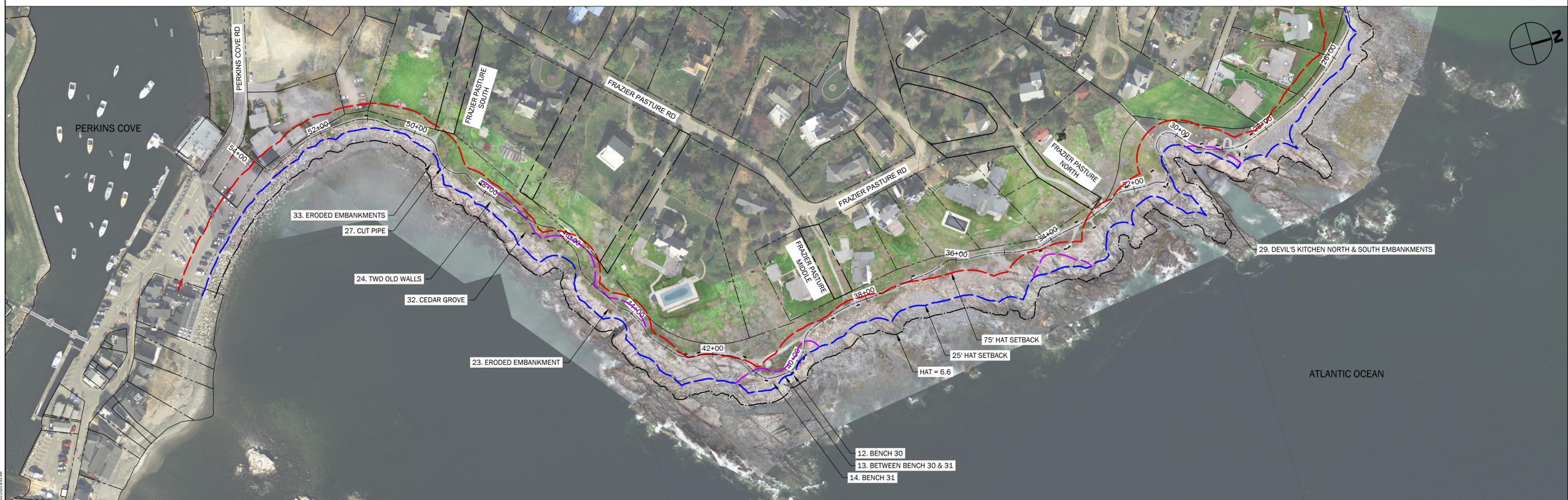
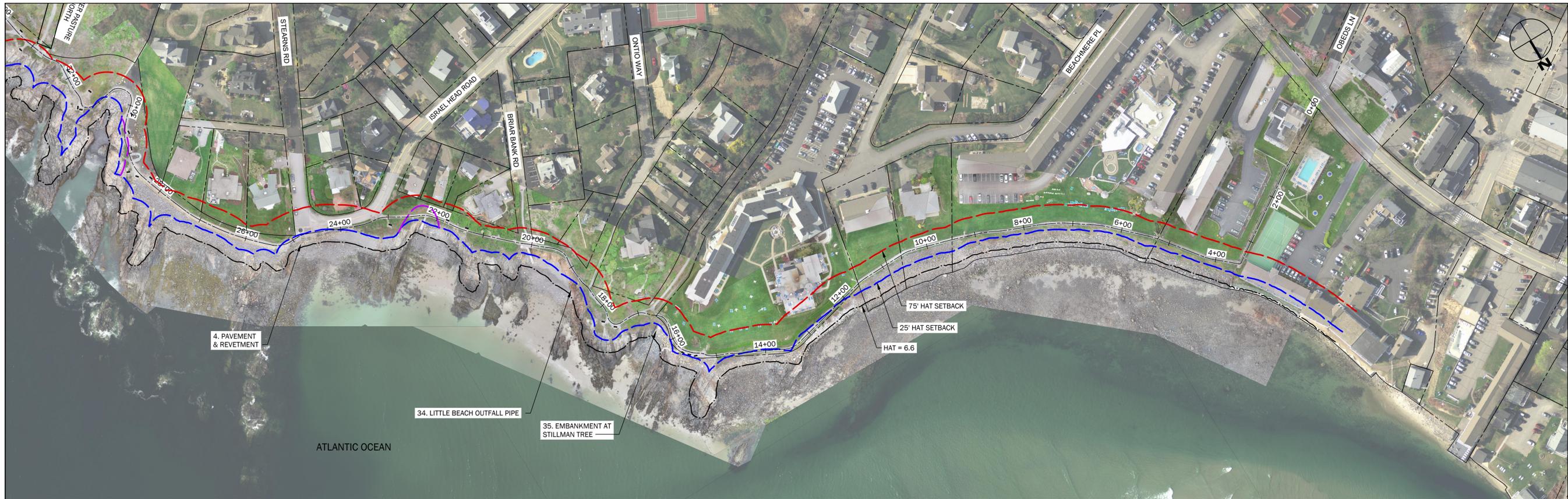
**Marginal Way Committee**  
Town of Ogunquit  
25 School Street P.O. Box 875  
Ogunquit, Maine 03907

Rev.	Date	Description	Drawn	Check
1	6/10/19	TOWN	CAR	WRW
2	9/10/19	DEP SUBMISSION	CAR	WRW
3	1/13/20	TOWN RESUBMISSION	CAR	WRW

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**Notes & Legend**

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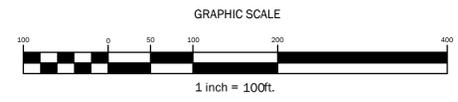
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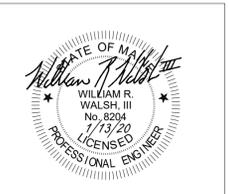
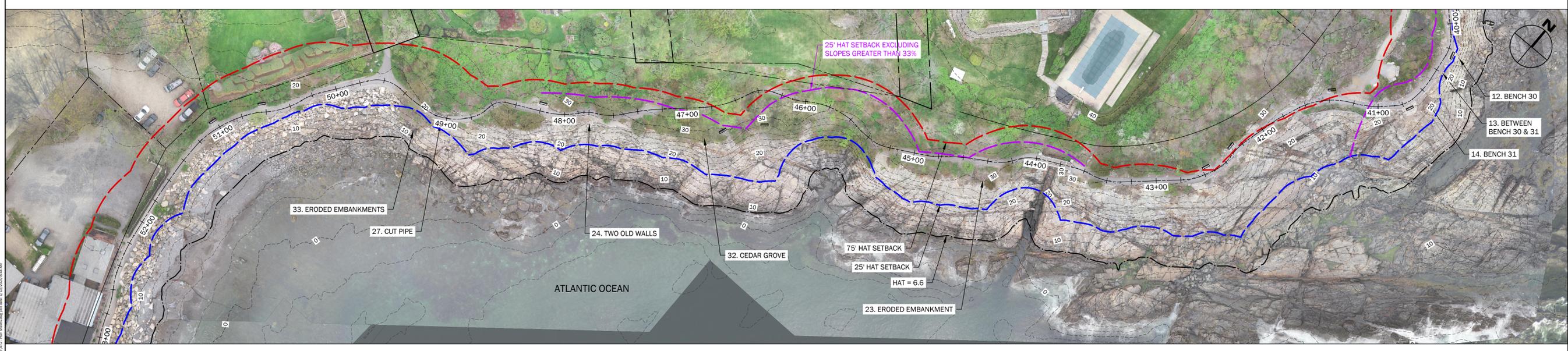
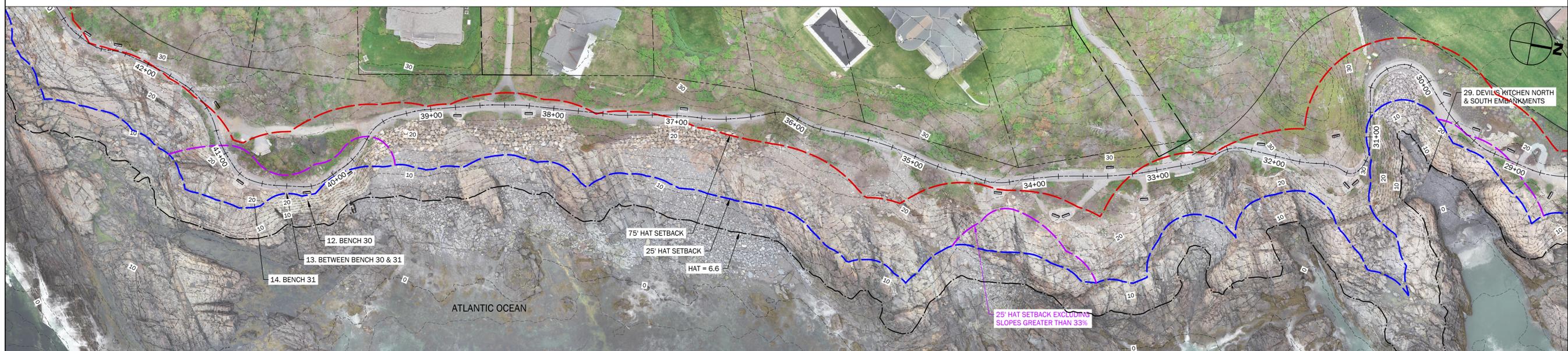
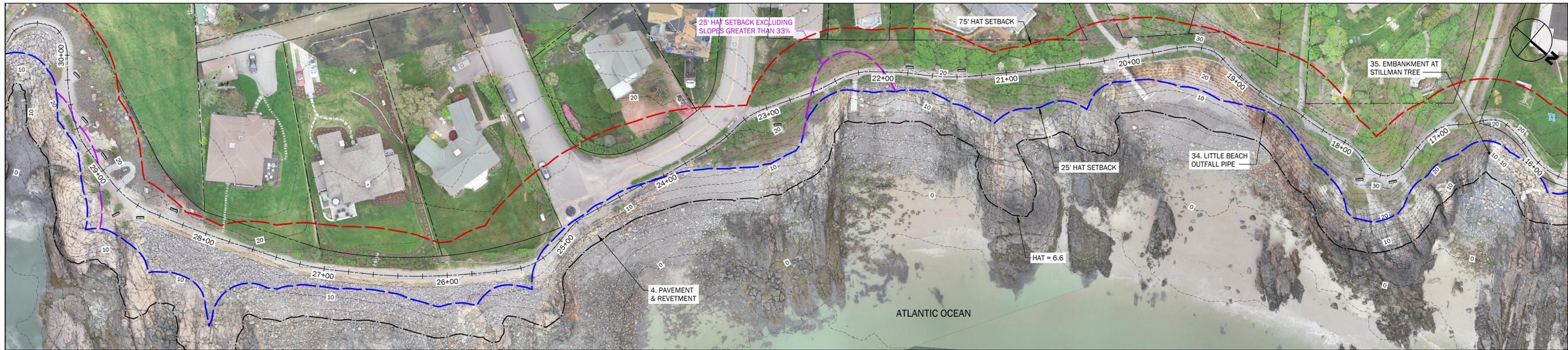
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2	9/10/19	DEP SUBMISSION	CAR	WRW
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Sheet Title:  
**Project Location Index**

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**C2.0a**

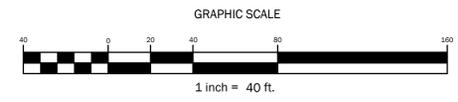


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3	1/13/20	TOWN RESUBMISSION	CAR	WRW

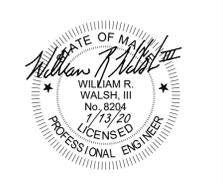
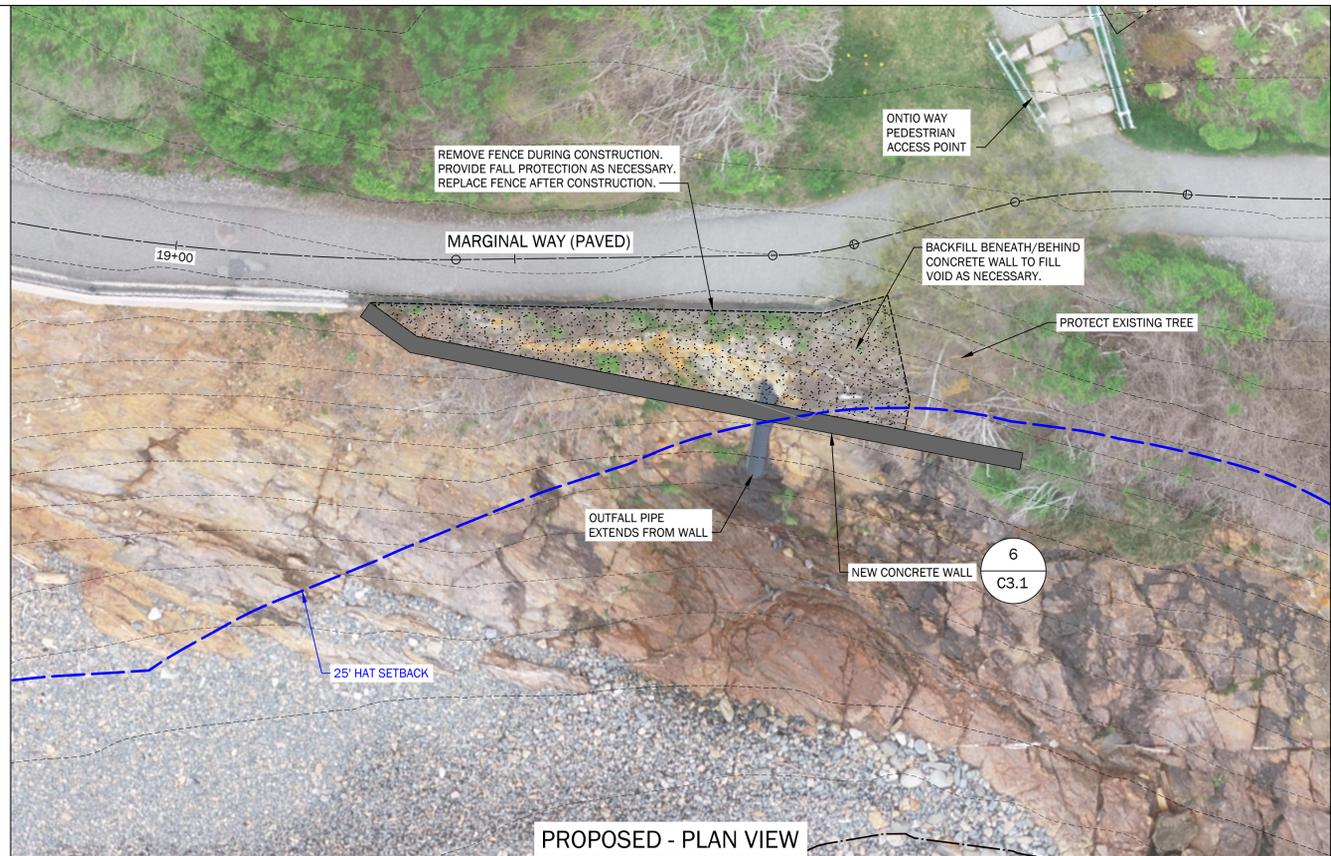
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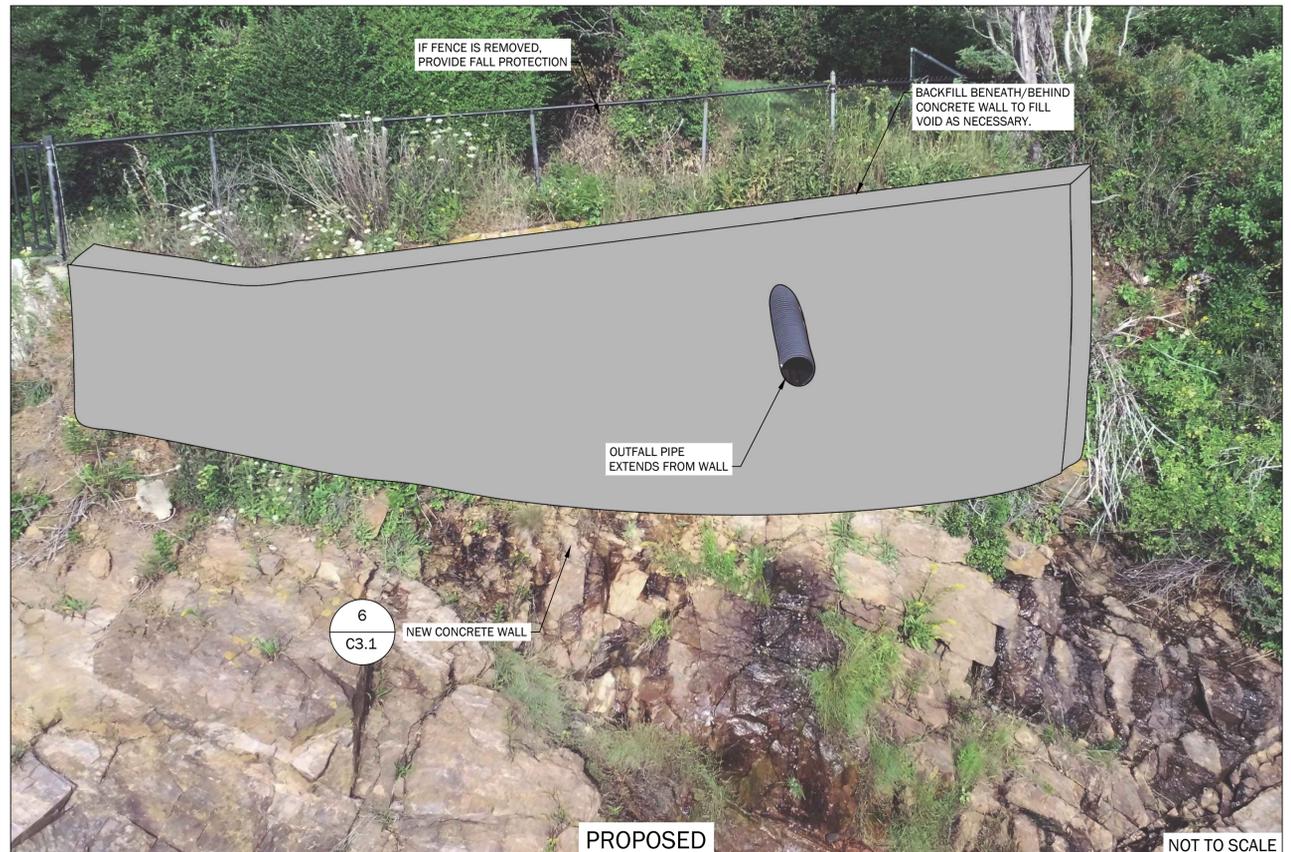
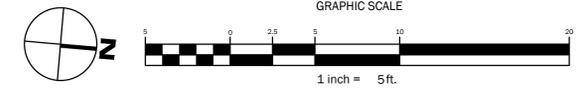
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**#34 LITTLE BEACH OUTFALL PIPE**

- ISSUE:
- TIDAL IMPACT SURGE ACTION UNDERMINING MASONRY SUPPORT
  - OLD MASONRY SUSPENDED WITHOUT BASE
- SOLUTION:
- INSTALL CONCRETE WALL
  - ADJUST OUTFALL PIPE



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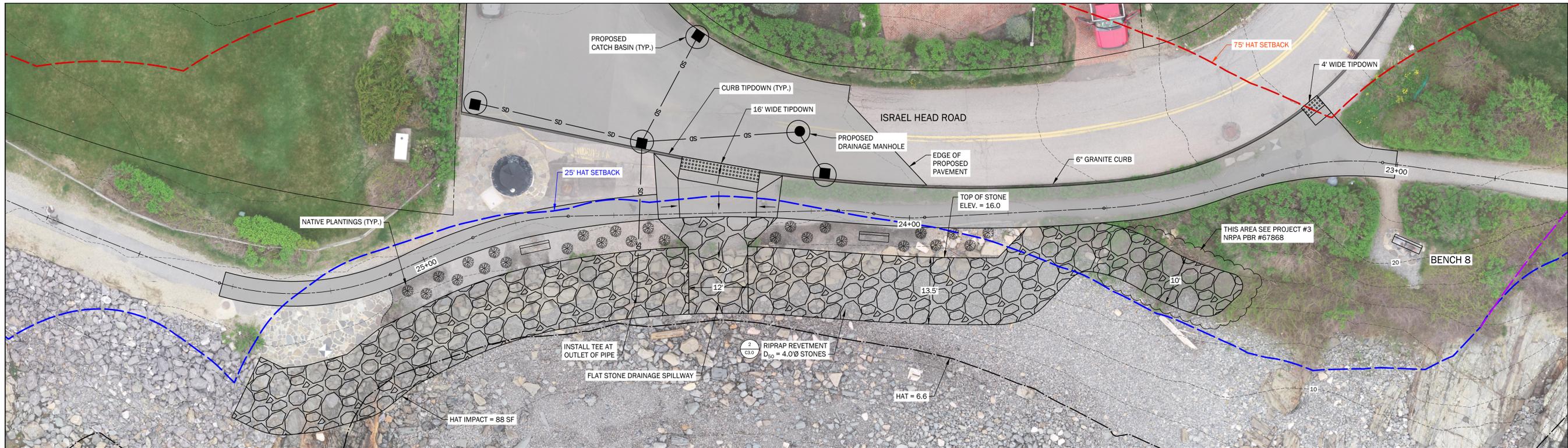
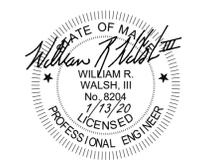
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2	9/10/19	DEP SUBMISSION	CAR	WRW
3	1/13/20	TOWN RESUBMISSION	CAR	WRW

Sheet Title:  
**Project #34  
Little Beach Outfall**

Job No.: 472 Sheet No.:  
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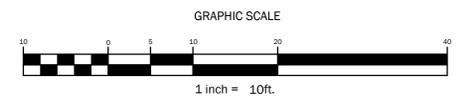
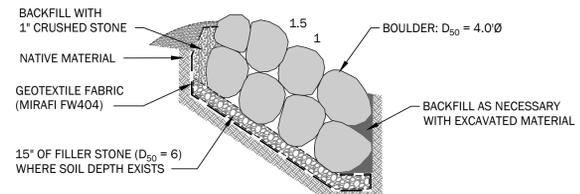
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19-013 Marginal Way, Ogunquit, ME, 03907. Photo: Walsh Engineering Associates, Inc. 5/13/2020. 8:48 AM

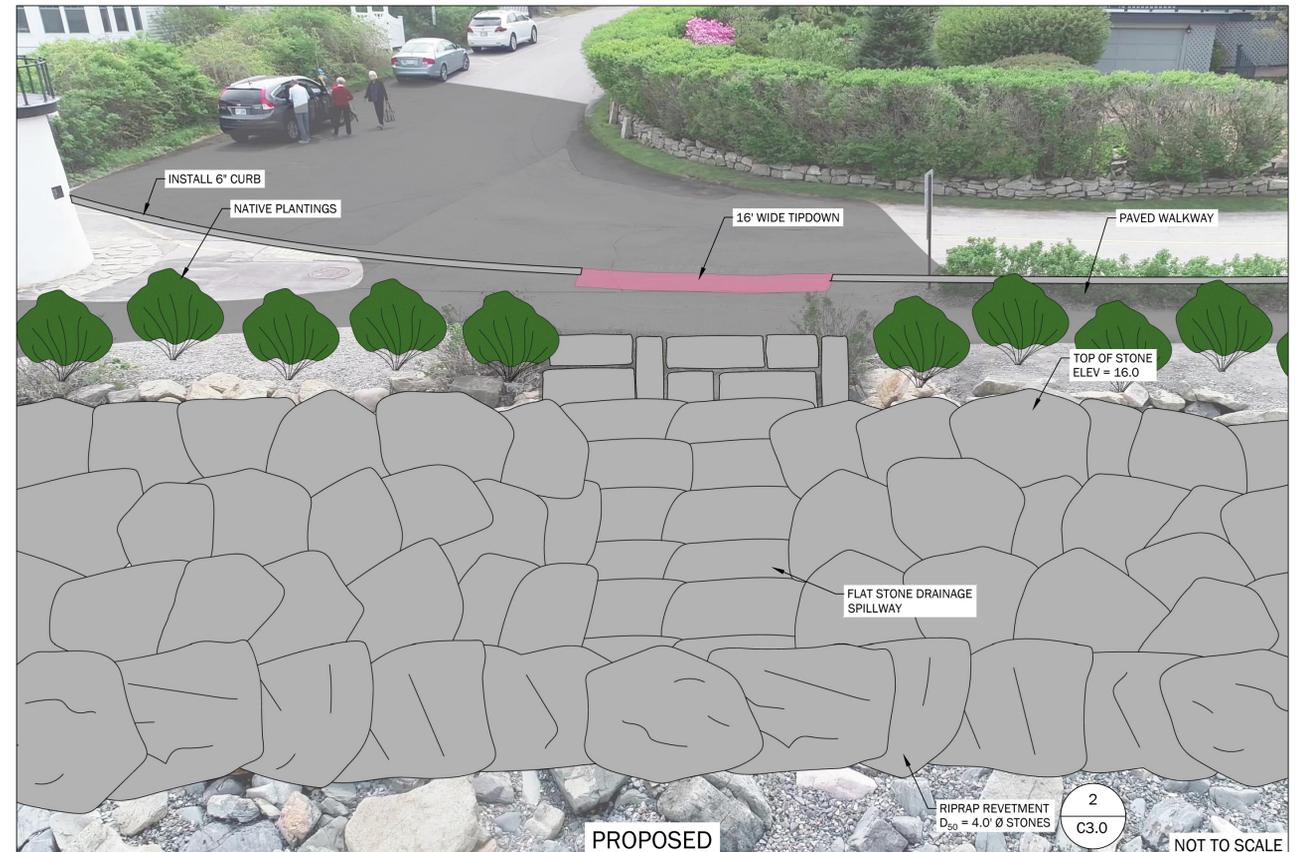


**#4 NORTH OF LIGHTHOUSE - PAVEMENT & REVETMENT**

- ISSUE:
- EROSION AT PAVEMENT/REVTMENT
  - LARGE ROCKS DISLODGED
- SOLUTION:
- IMPROVE STORMWATER DRAINAGE
  - RECONSTRUCT REVETMENT
  - PRESERVE ACCESS TO COBBLE BEACH



**RIPRAP REVETMENT DETAIL**  
NOT TO SCALE



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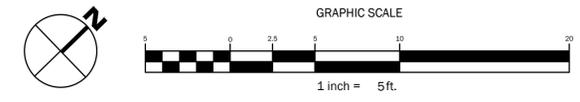
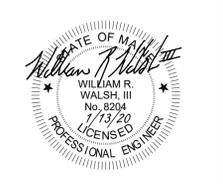
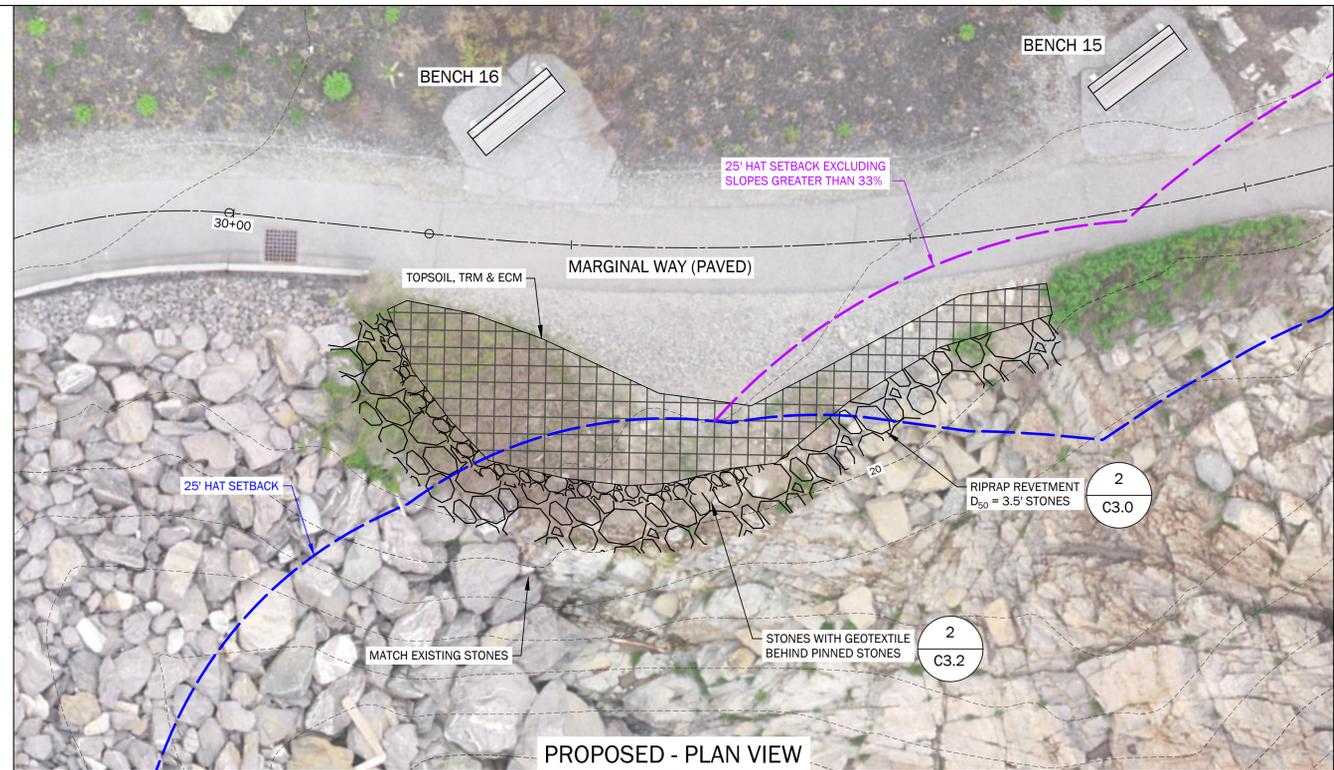
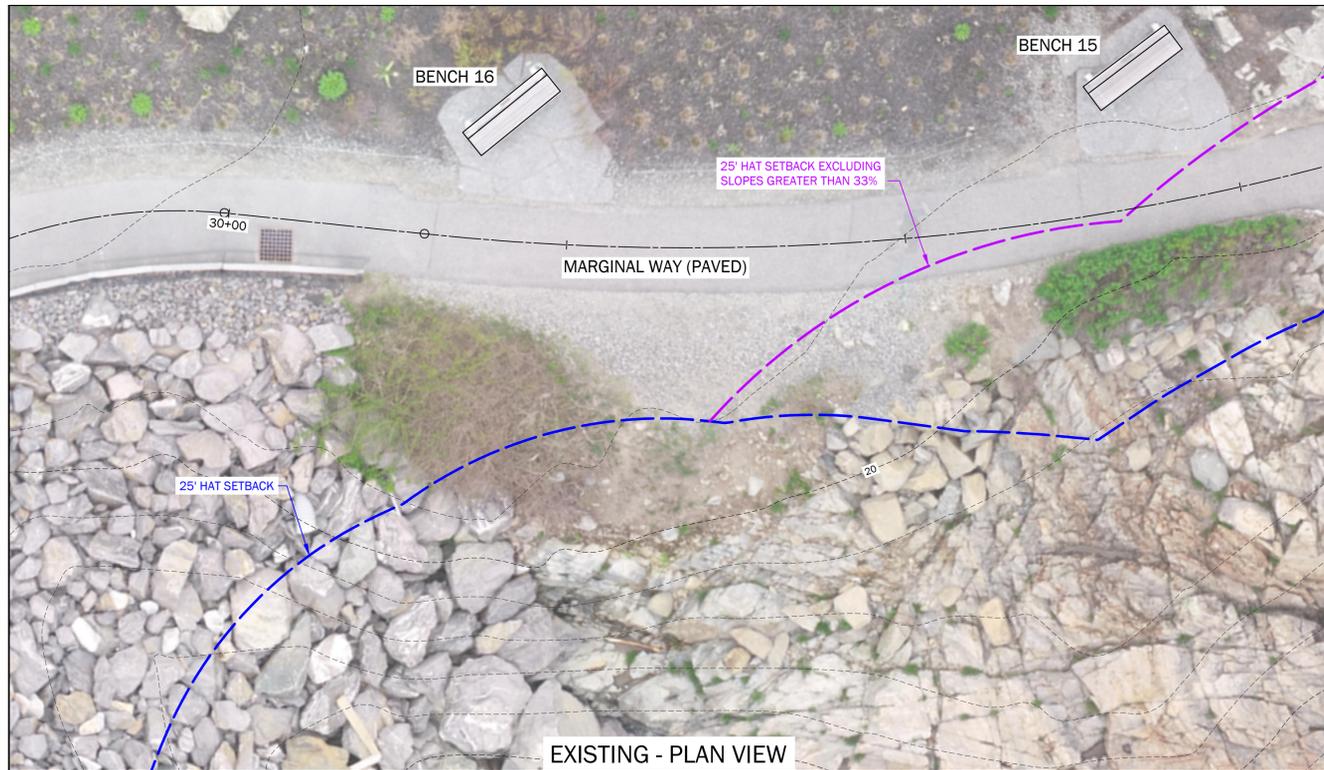
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2	9/10/19	DEP SUBMISSION	CAR	WRW
3	10/10/19	REVISED SUBMISSION	CAR	WRW

Sheet Title:  
**Project #4  
North of Lighthouse -  
Pavement & Revetment**

Job No.: 472 Sheet No.:  
Date: May 15, 2019  
Scale: 1" = 10'  
Drawn: CAR  
Checked: WRW

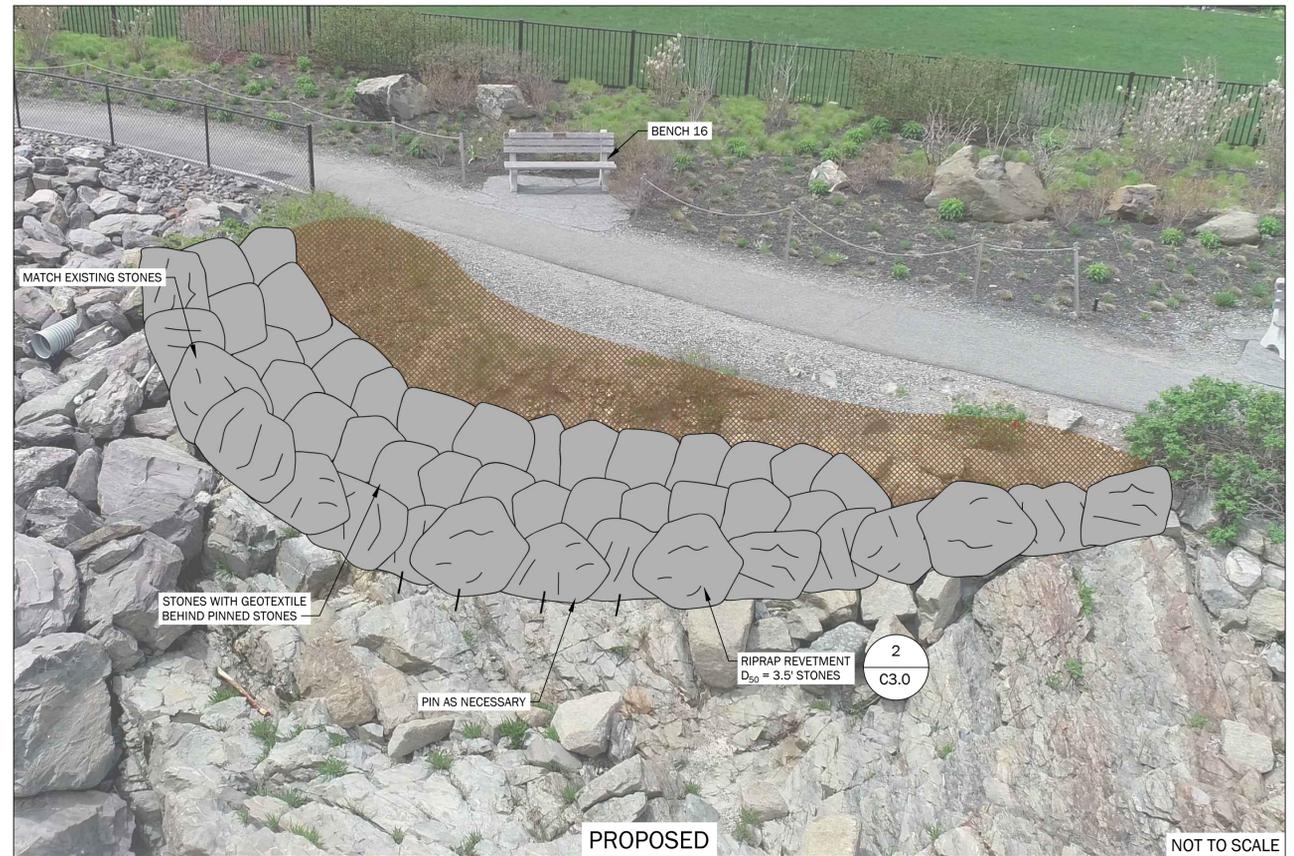
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19/011 Walsh/WRW, 05/15/2019, 10:00 AM, 19/011 Walsh/WRW, 05/15/2019, 10:00 AM



**#29 DEVIL'S KITCHEN NORTH EMBANKMENT**

- ISSUE:
- EMBANKMENTS SCoured BY STORM SURGE
  - PLANT COVER & SOIL REMOVED EXPOSING BARE EARTH
- SOLUTION:
- PIN ROCKS SURROUNDING OVERBURDEN
  - INSTALL GEOTEXTILE FABRIC FOR SOIL RETENTION
  - BACKFILL LOAM, TRM & NATIVE PLANTINGS



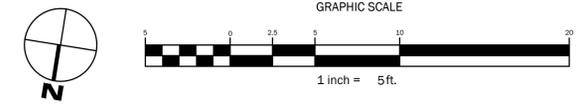
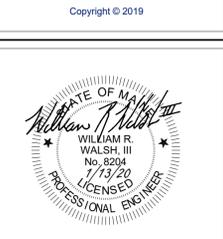
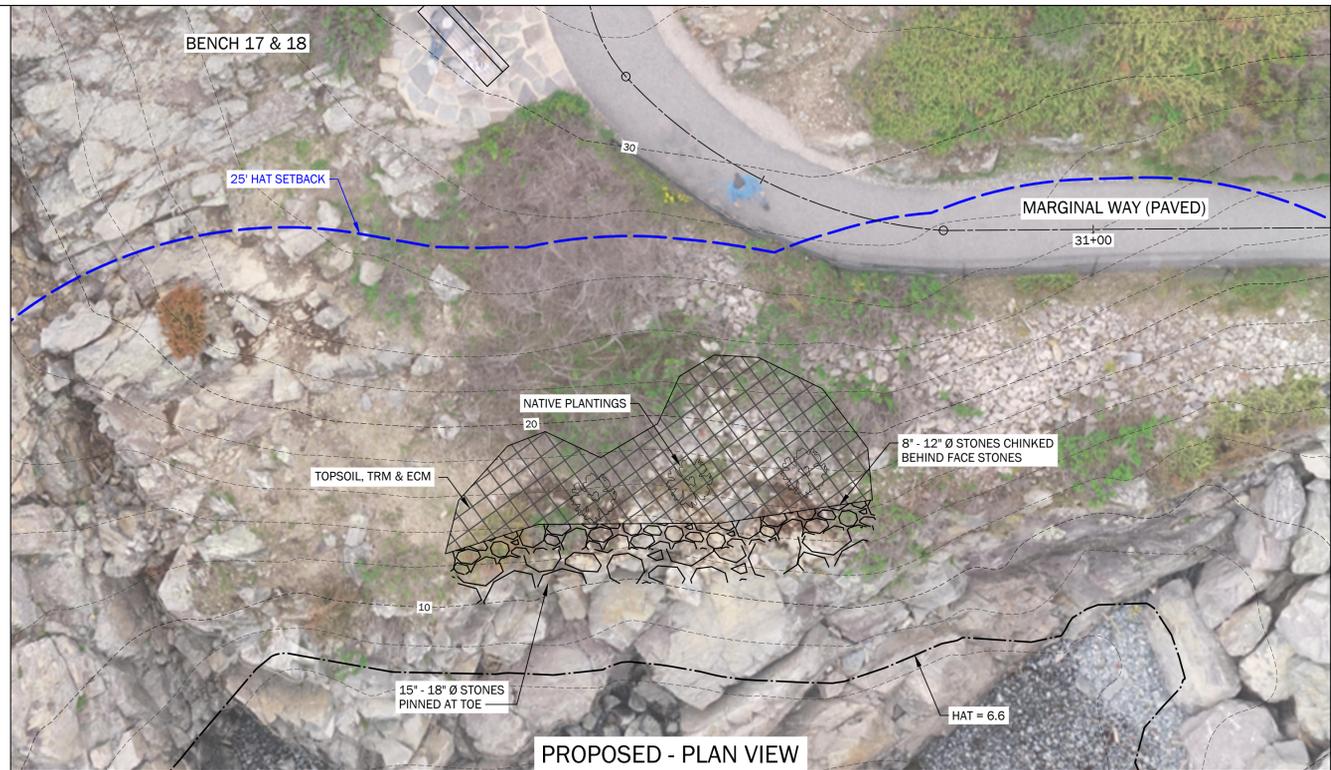
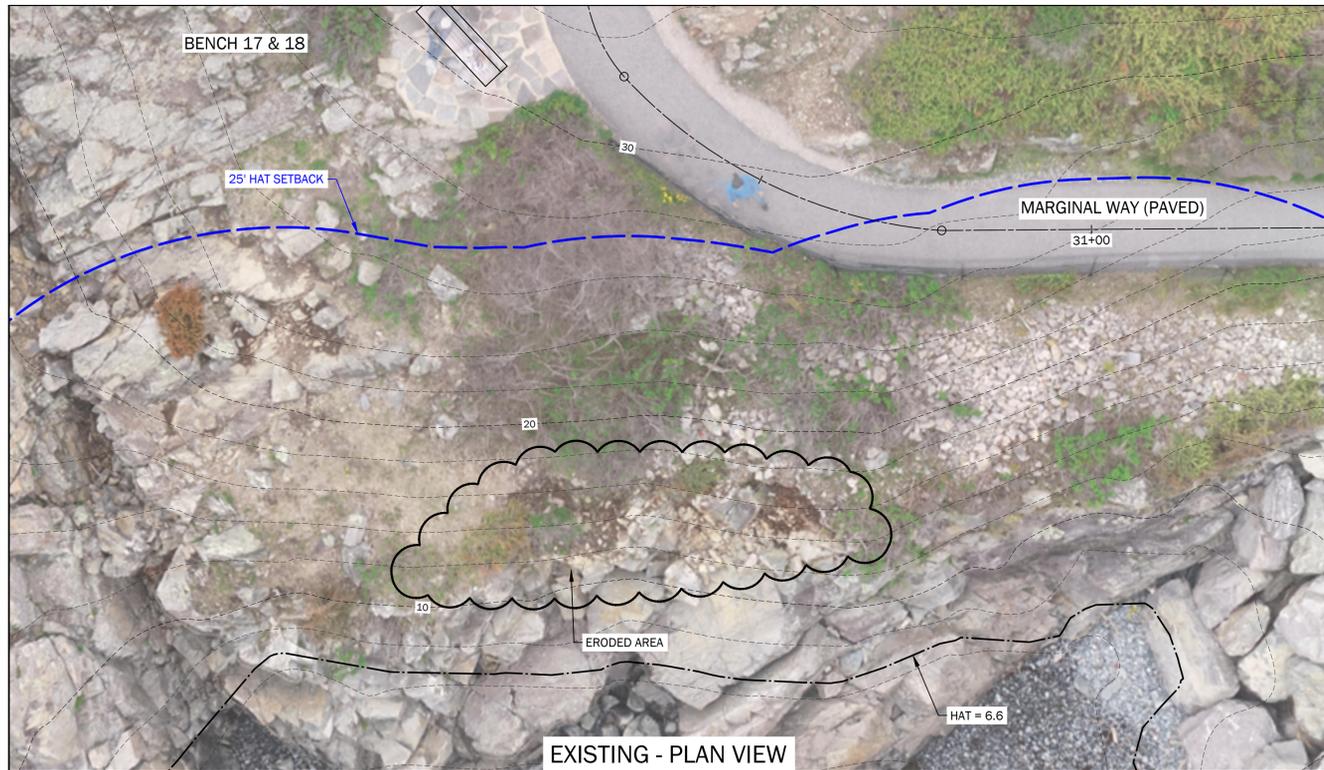
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3	1/13/20	TOWN RESUBMISSION	CAR	WRW

Sheet Title:  
**Project #29**  
**Devil's Kitchen**  
**Embankment North**

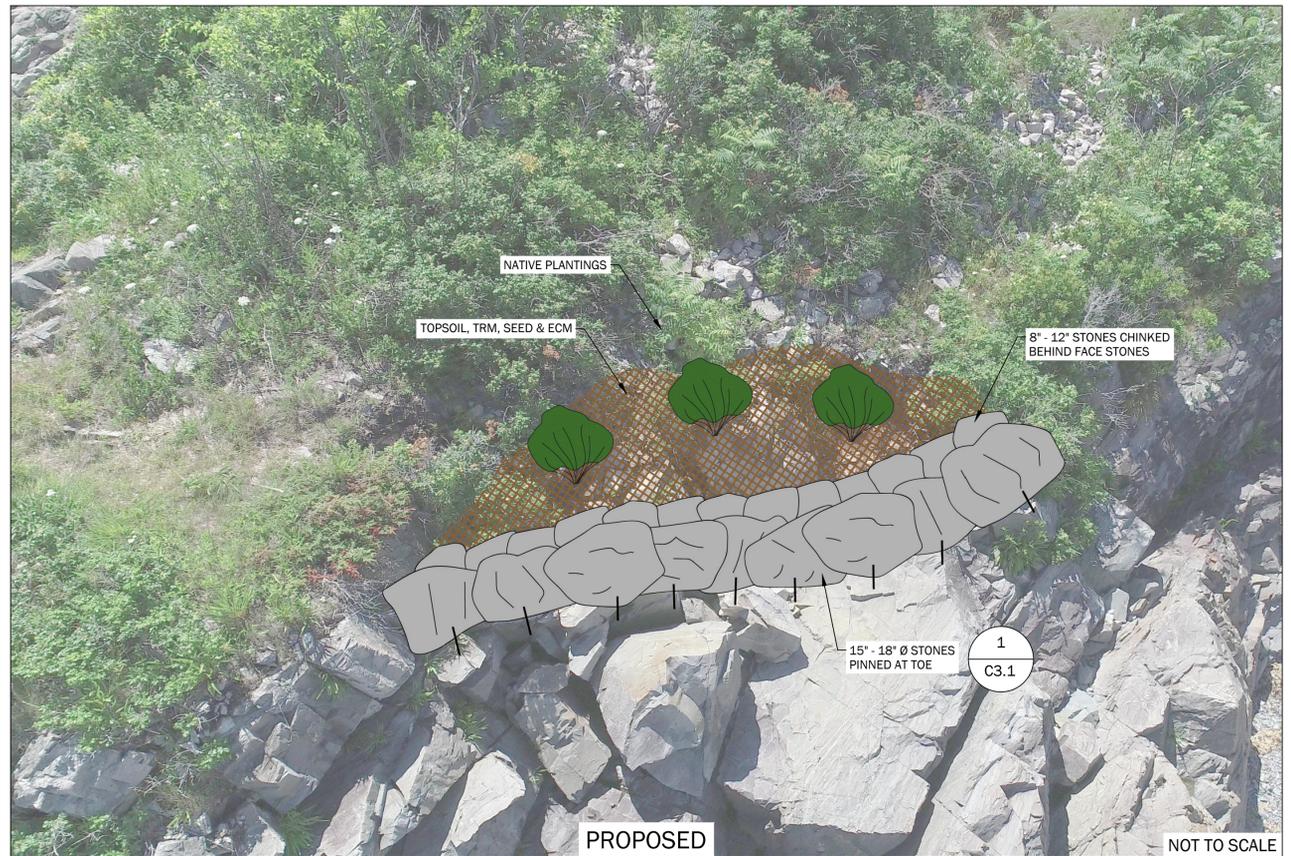
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Date: May 15, 2019  
Scale: 1" = 5'  
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**C2.7a**



**#29 DEVIL'S KITCHEN SOUTH EMBANKMENT**

- ISSUE:
- ERODED EMBANKMENT
  - STEEP SLOPE - LIMITED ACCESS
- SOLUTION:
- PIN 15" - 18" STONES
  - INSTALL MORTARED STONE EMBANKMENT
  - INSTALL TRM AS NEEDED



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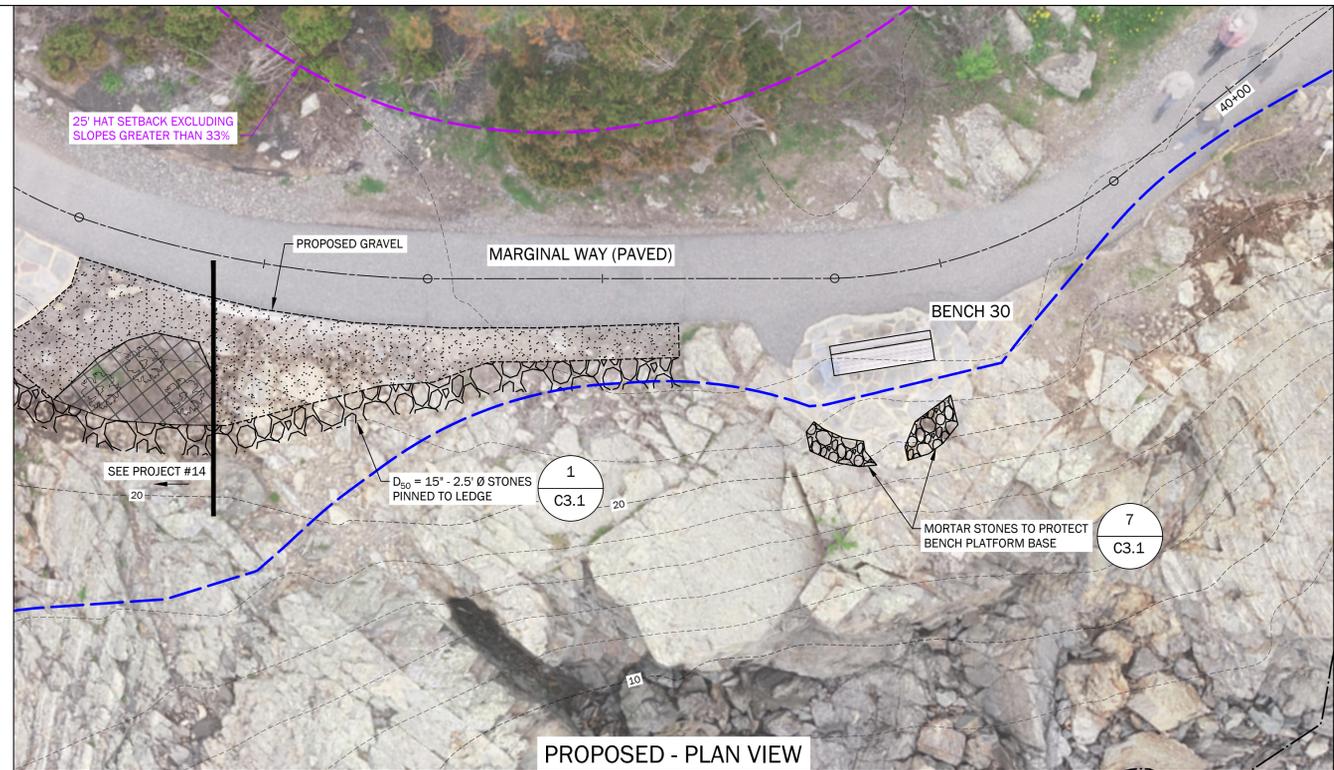
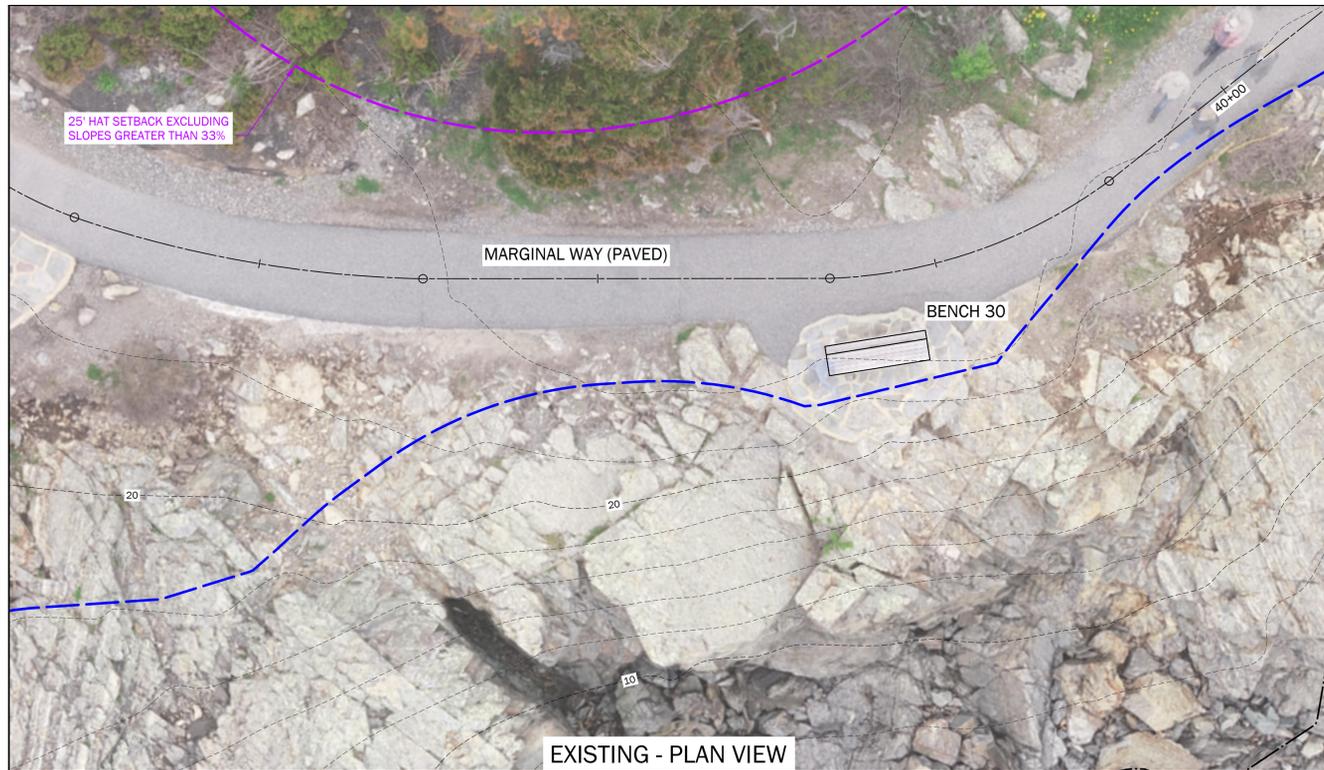
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2	9/10/19	DEP SUBMISSION	CAR	WRW
3	1/13/20	TOWN RESUBMISSION	CAR	WRW

Project #29  
Devil's Kitchen  
Embankment South

Job No.: 472  
Date: May 15, 2019  
Scale: 1" = 5'  
Drawn: CAR  
Checked: WRW

Sheet No.:  
**C2.7b**

15" - 18" Mortared Stone Embankment, Ogunquit, ME, 5/15/2019, 1:5000



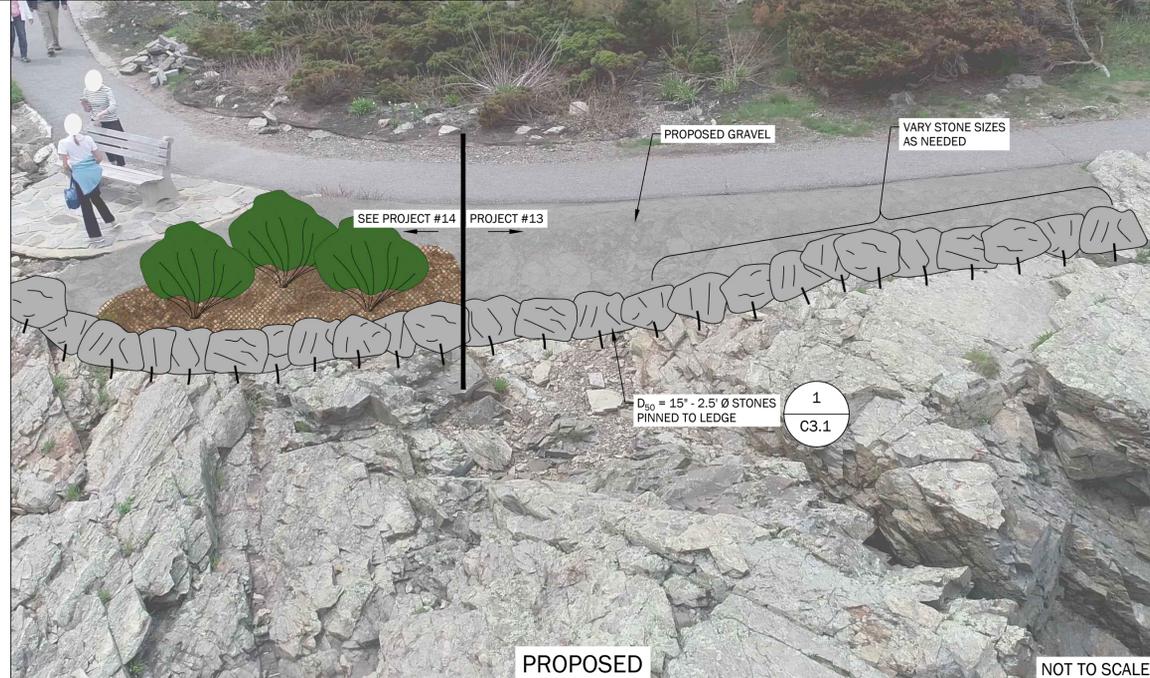
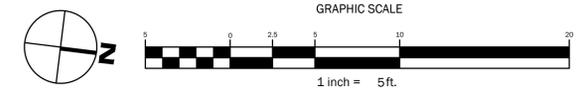
**#13 BENCH 30 TO 31**

- ISSUE:
- EROSION BETWEEN BENCH 30 AND BENCH 31
- SOLUTION:
- INSTALL BOULDERS PINNED TO LEDGE
  - INSTALL GEOTEXTILE BACKING
  - BACKFILL WITH BORROW, LOAM & ECM
  - INSTALL NATIVE PLANTINGS



**#12 BENCH 30**

- ISSUE:
- MORTARED STONES OF MASONRY PAD BREAKING AWAY
- SOLUTION:
- REINFORCE WITH STONES MORTARED TO LEDGE



**Marginal Way Storm Repairs**

Marginal Way  
Ogunquit, Maine 03907

**Marginal Way Committee**

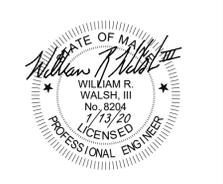
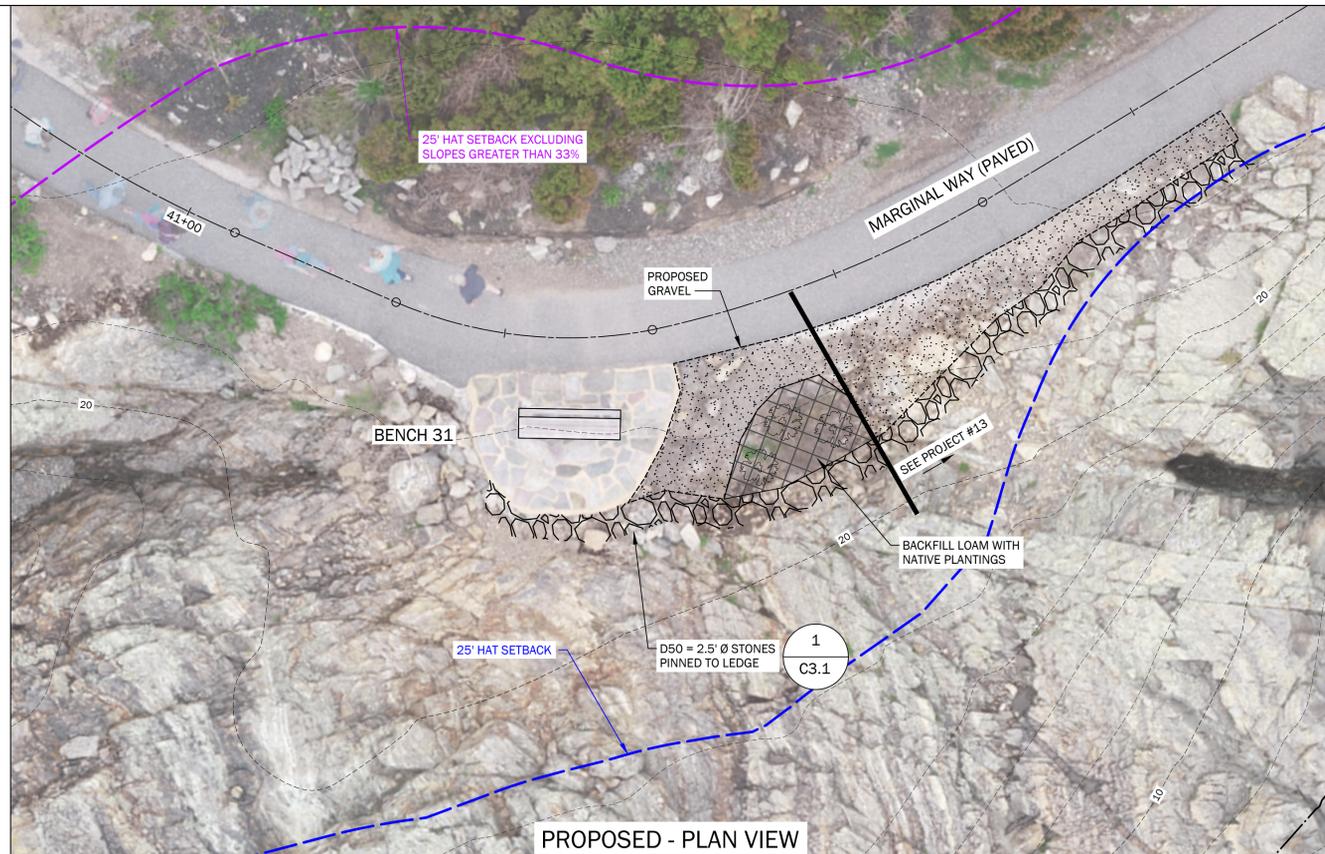
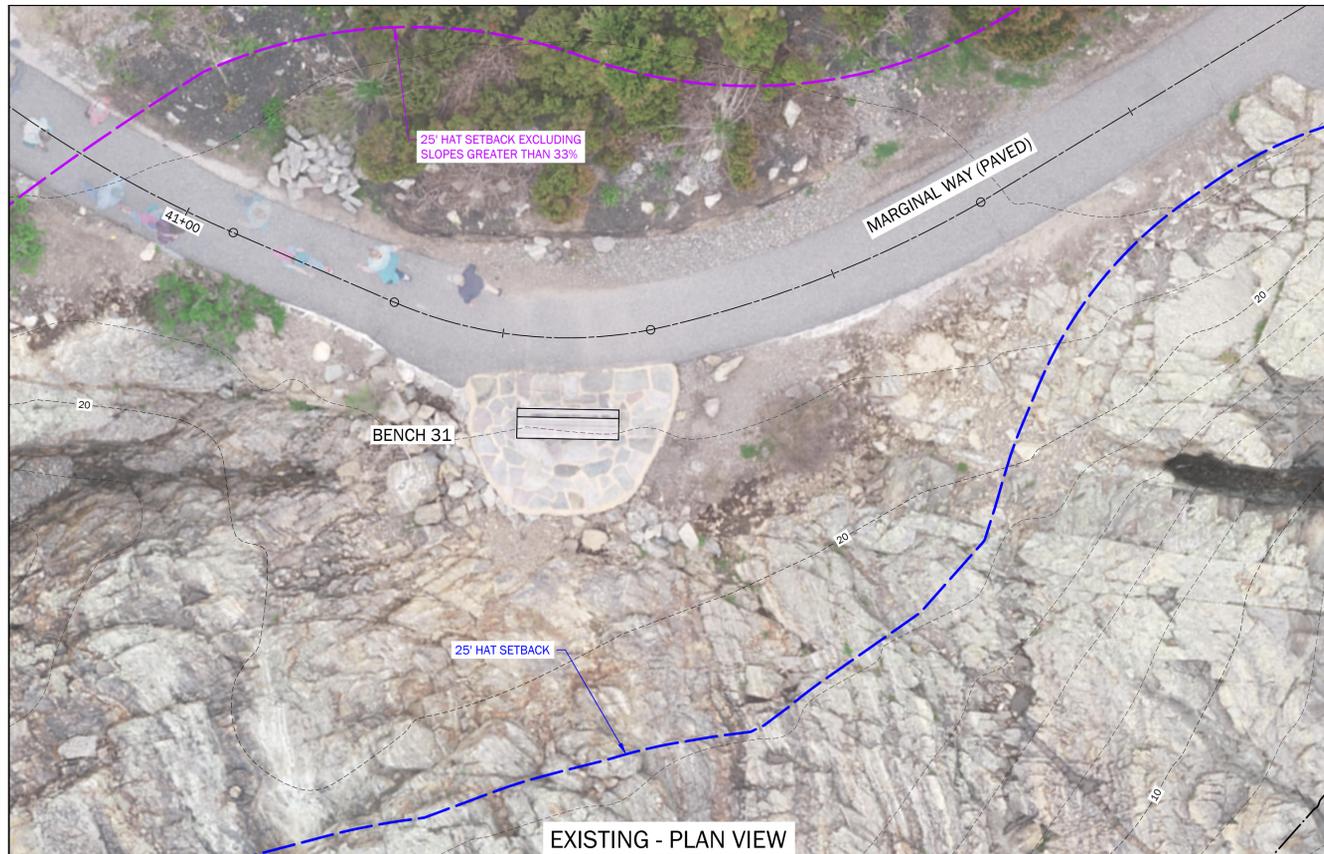
Town of Ogunquit  
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Ogunquit, Maine 03907

Rev.	Date	Description	Drawn	Check
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2	9/10/19	DEP SUBMISSION	CAR	WRW
3	1/13/20	TOWN RESUBMISSION	CAR	WRW

Sheet Title:  
**Project #12 & #13  
Bench 30 to 31**

Job No.: 472 Sheet No.:  
Date: May 15, 2019  
Scale: 1" = 5'  
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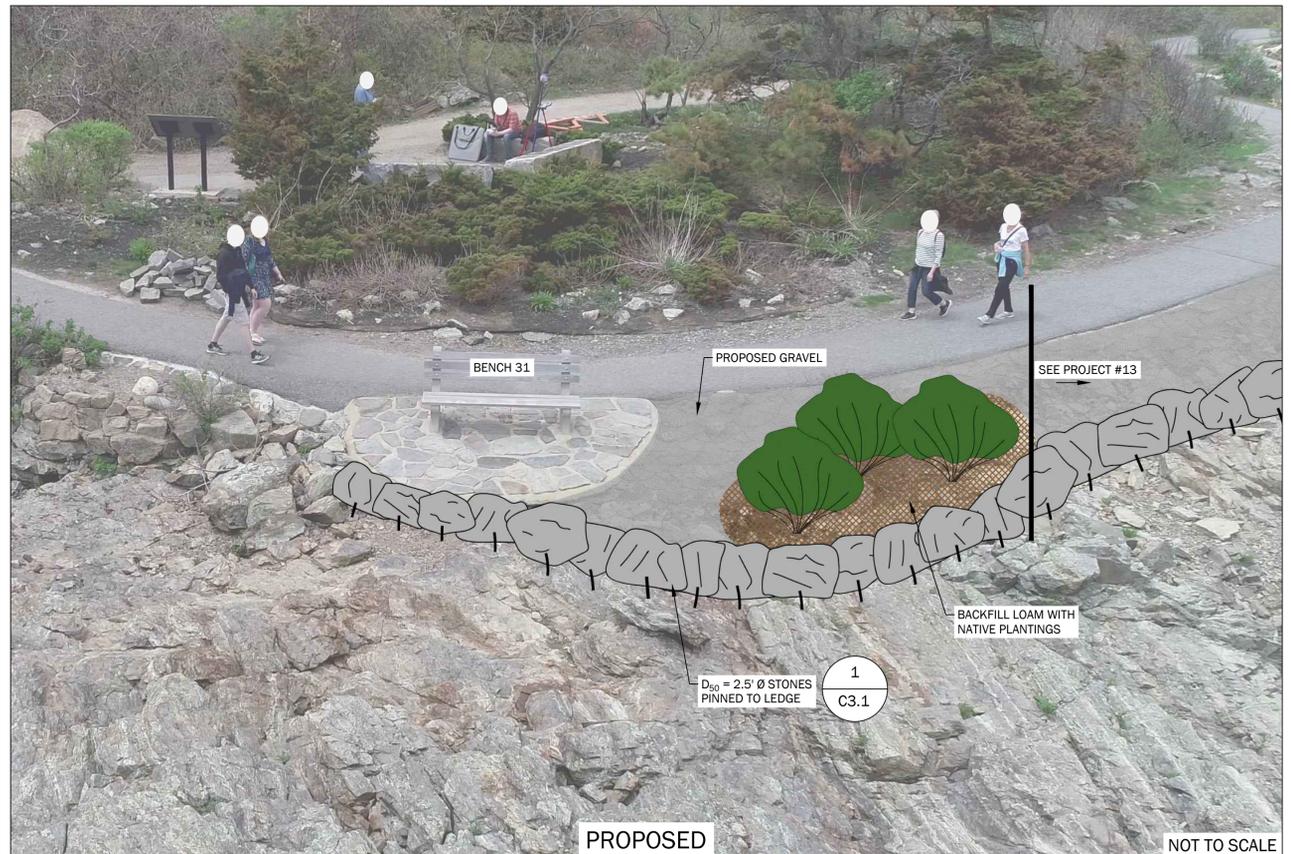
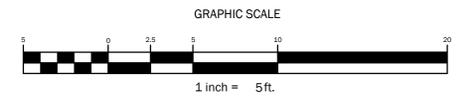
**C2.11**



**#14 BENCH 31**

- ISSUE:
- STEEP DROP OFF OF EARTH CLOSE TO MASONRY PAD
  - WASHOUT OF MATERIAL UNDERMINING MASONRY PAD

- SOLUTION:
- PIN STONE TO SUPPORT EXISTING SOIL AND VEGETATION
  - FILL IN UNDERMINED MASONRY PAD
  - ADD STONE SURROUNDING MASONRY PAD



Marginal Way Storm Repairs  
Marginal Way  
Ogunquit, Maine 03907

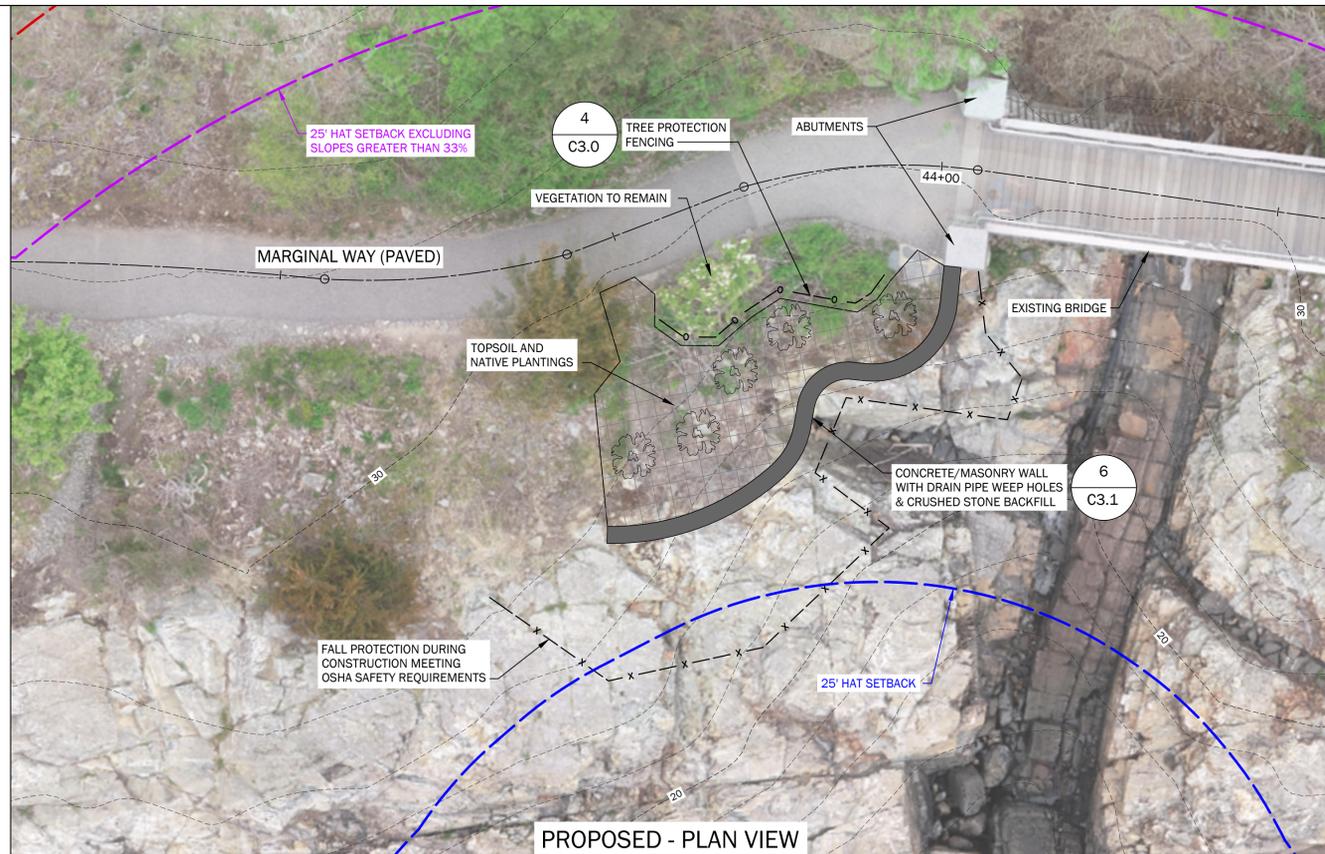
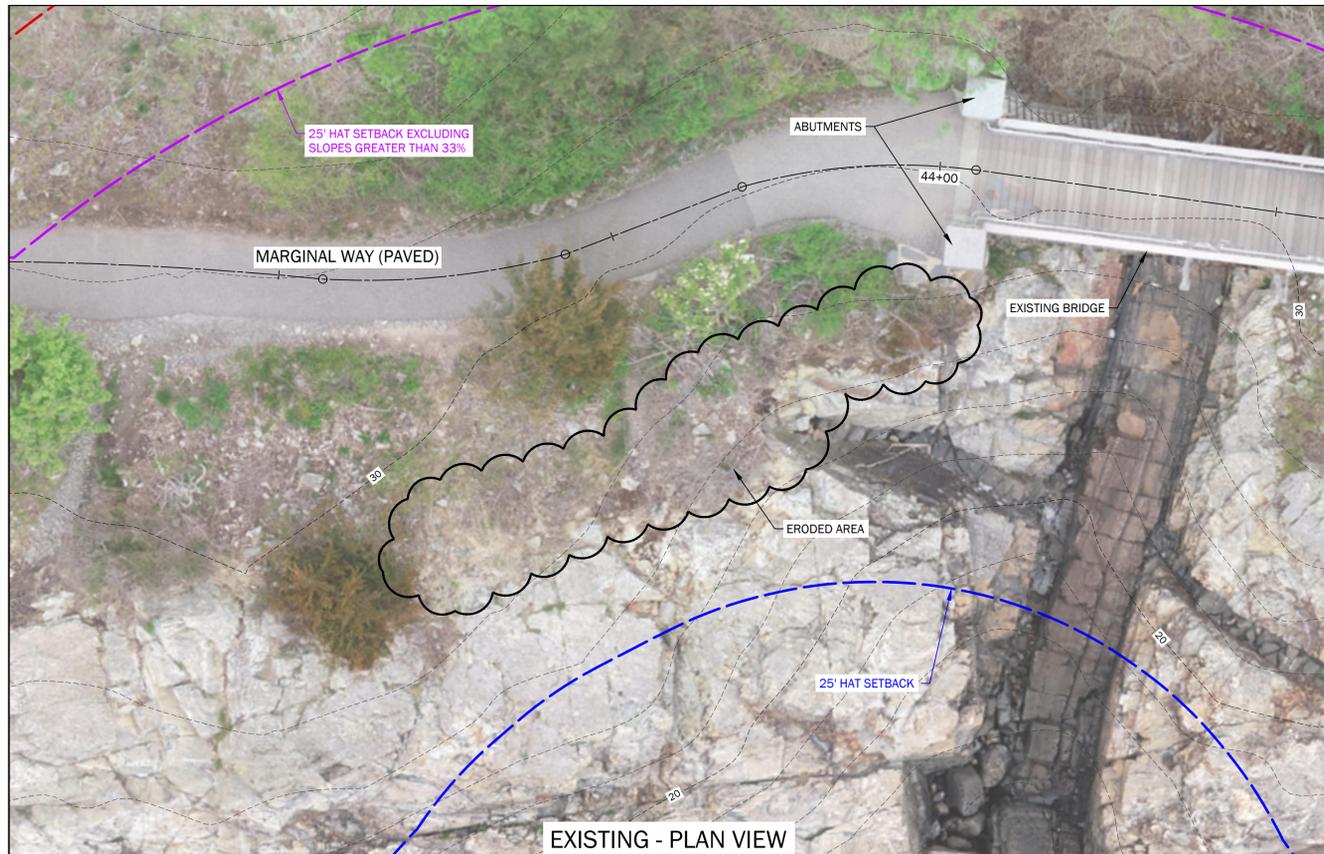
Marginal Way Committee  
Town of Ogunquit  
25 School Street P.O. Box 875  
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2	9/10/19	DEP SUBMISSION	CAR	WRW
3	1/13/20	TOWN RESUBMISSION	CAR	WRW

Sheet Title:  
**Project #14**  
**Bench 31**

Job No.: 472 Sheet No.:  
Date: May 15, 2019  
Scale: 1" = 5'  
Drawn: CAR  
Checked: WRW

**C2.12**



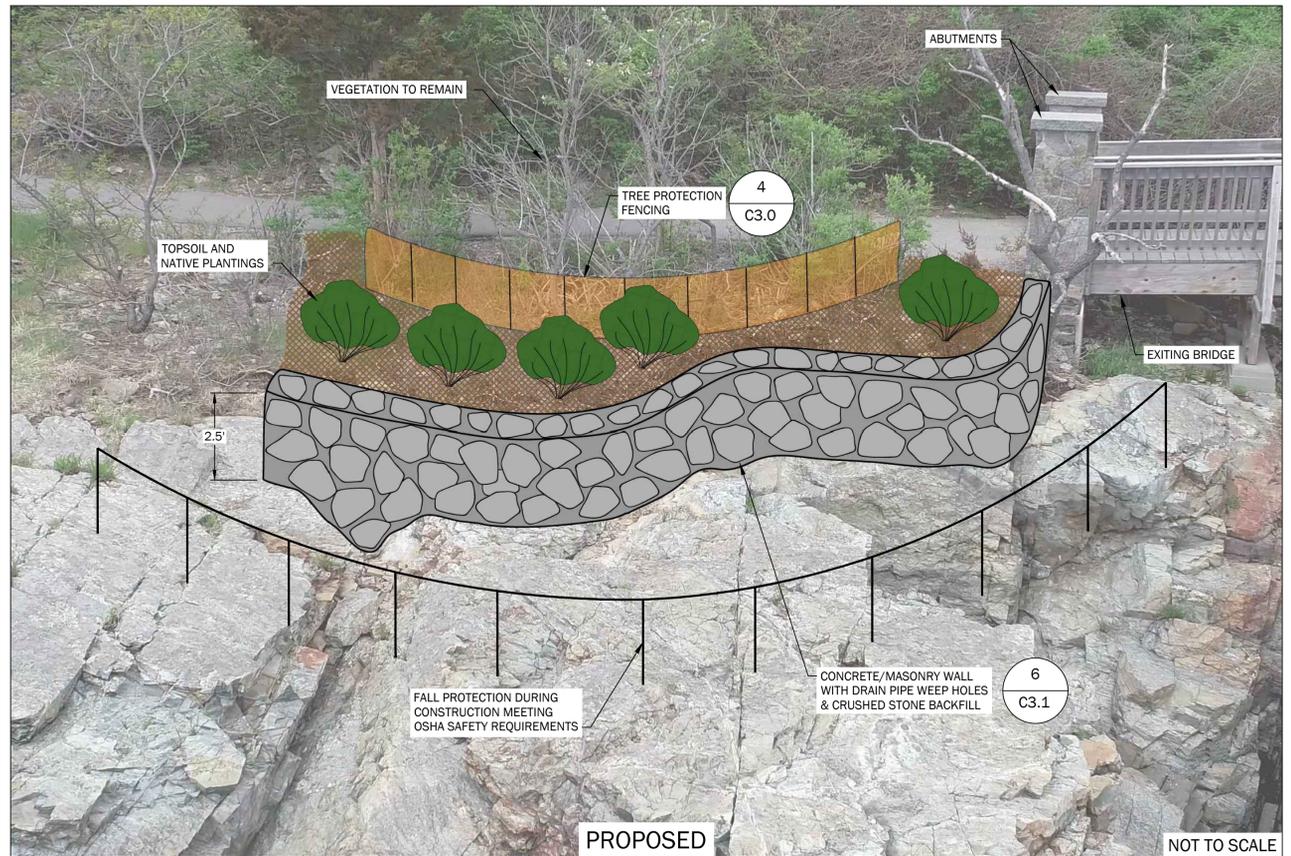
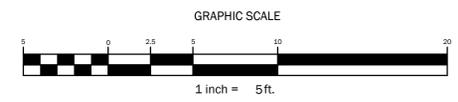
**#23 SOUTH OF BRIDGE**

**ISSUE:**

- EMBANKMENT IS ERODED BEHIND CEDAR TREE
- EXPOSED EARTH AND ROOTS NEED TO BE PROTECTED
- VEGETATION NEEDS TO BE MAINTAINED
- STEEPNESS OF LEDGE PRESENTS CONSTRUCTION ISSUES

**SOLUTION:**

- CONSTRUCT MASONRY WALL ON OCEAN SIDE OF VEGETATION
- PRESERVE EXISTING SOIL AND VEGETATION
- TIE MASONRY WALL INTO BRIDGE FOOTING
- FILL WITH SOIL WITHIN MASONRY WALL



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1	6/10/19	TOWN	CAR	WRW
2	9/10/19	DEP SUBMISSION	CAR	WRW
3	1/13/20	TOWN RESUBMISSION	CAR	WRW

Sheet Title:  
**Project #23**  
**South of Bridge**

Job No.: 472

Sheet No.:

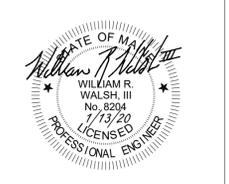
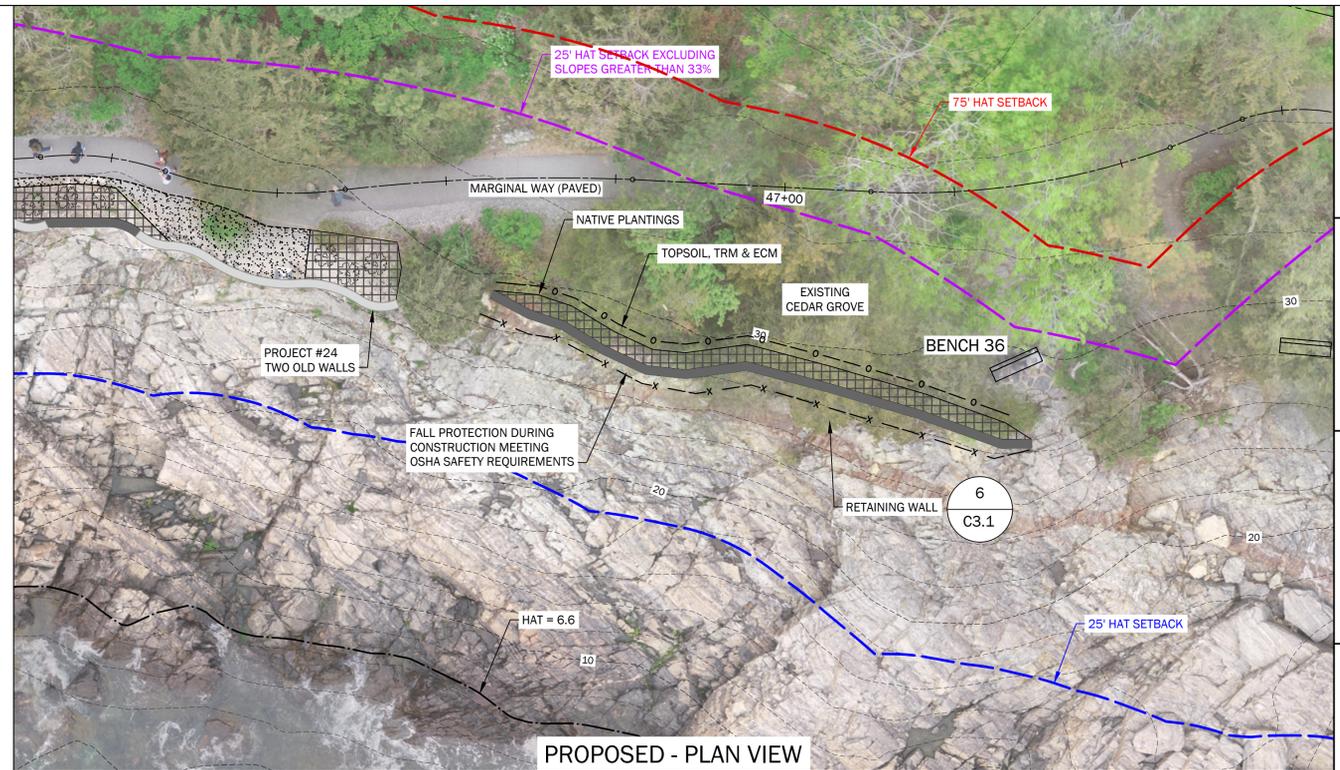
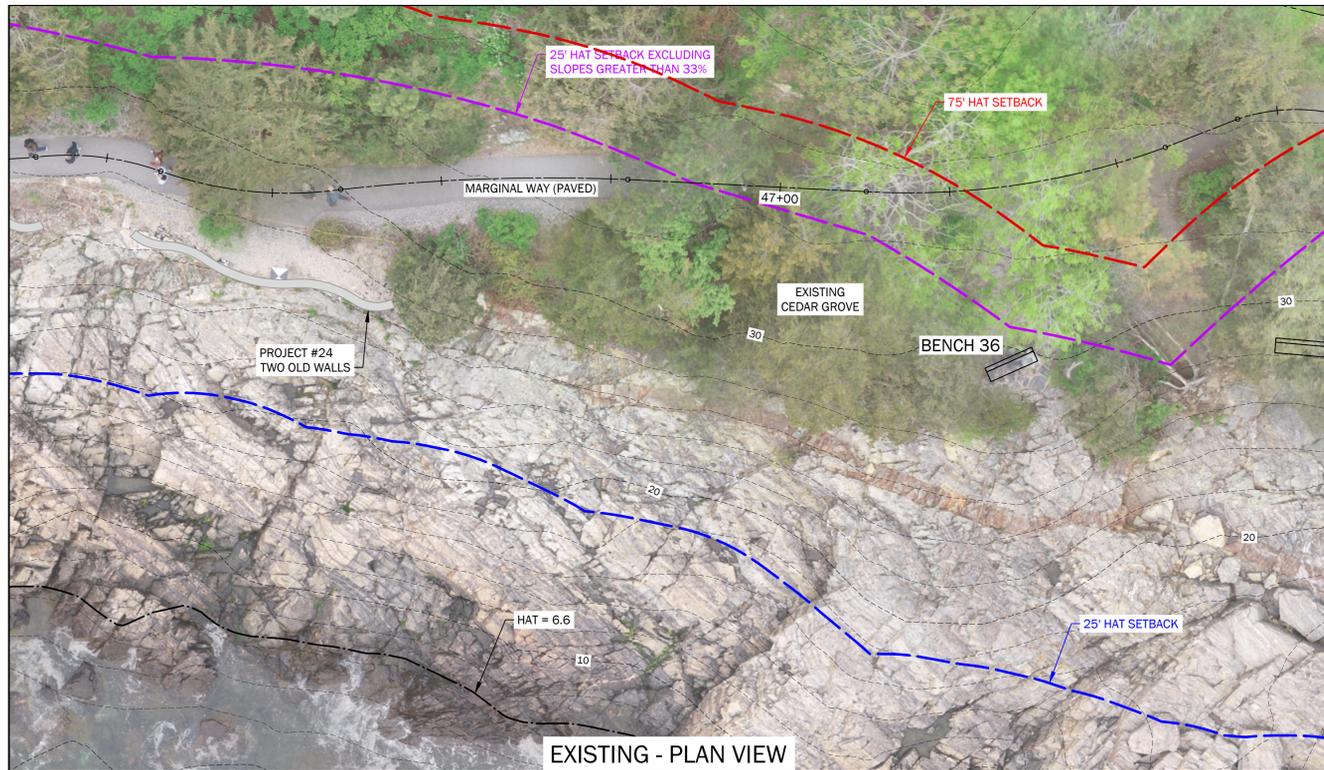
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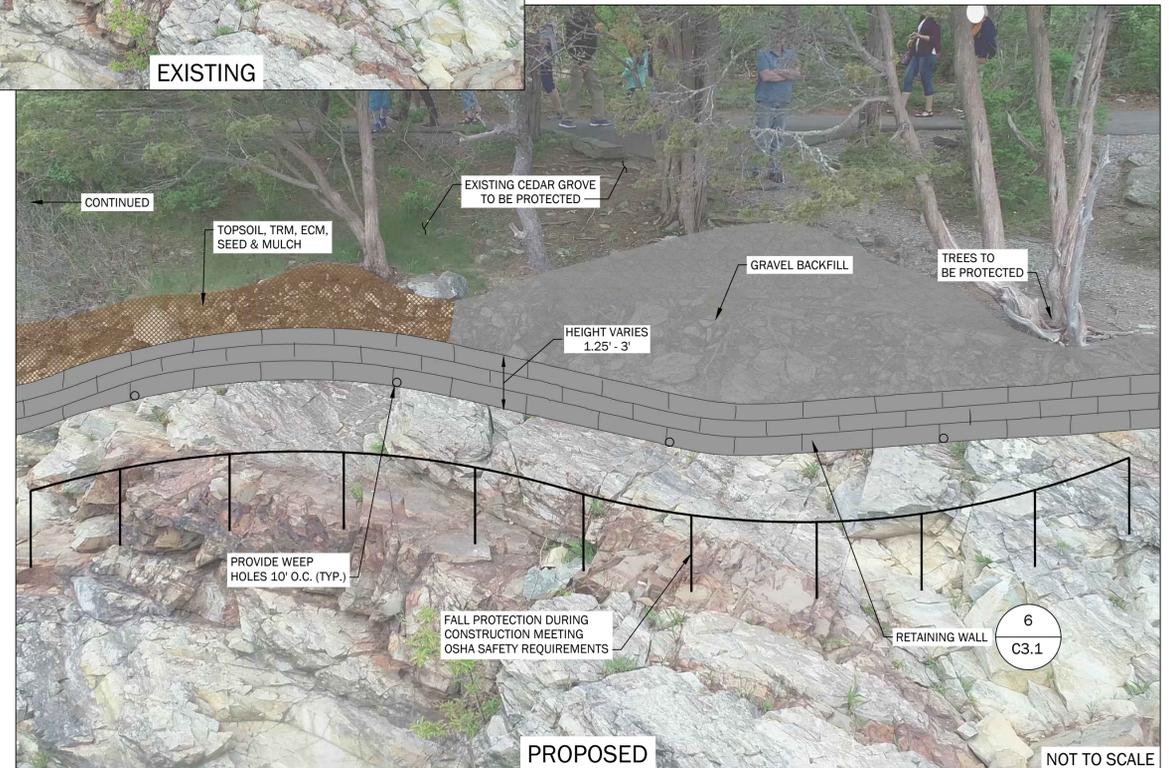
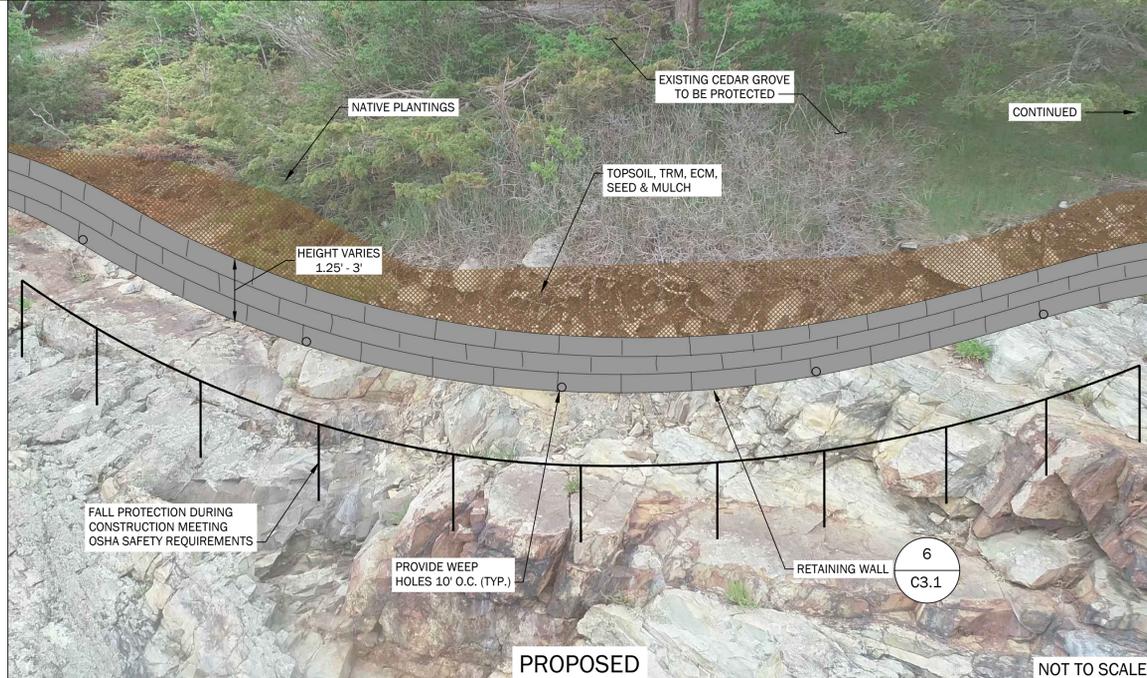
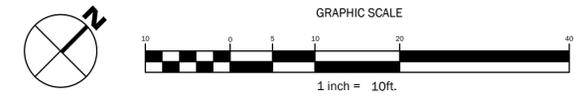
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**C2.14**



**#32 CEDAR GROVE**

- ISSUE:
- EROSION OF EMBANKMENT AND SOIL THAT SUPPORTS CEDAR GROVE
  - EXPOSED ROOTS AND EARTH
  - STEEPNESS OF LEDGE
  - ACCESS CAN ONLY BE DONE BY PEOPLE (NO EQUIPMENT)
- SOLUTION:
- CONTINUATION OF MASONRY WALL
  - BACKFILL WITH BORROW



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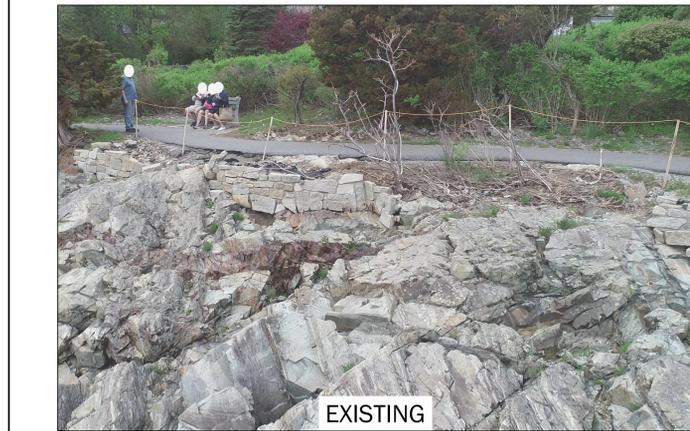
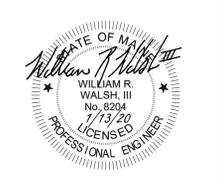
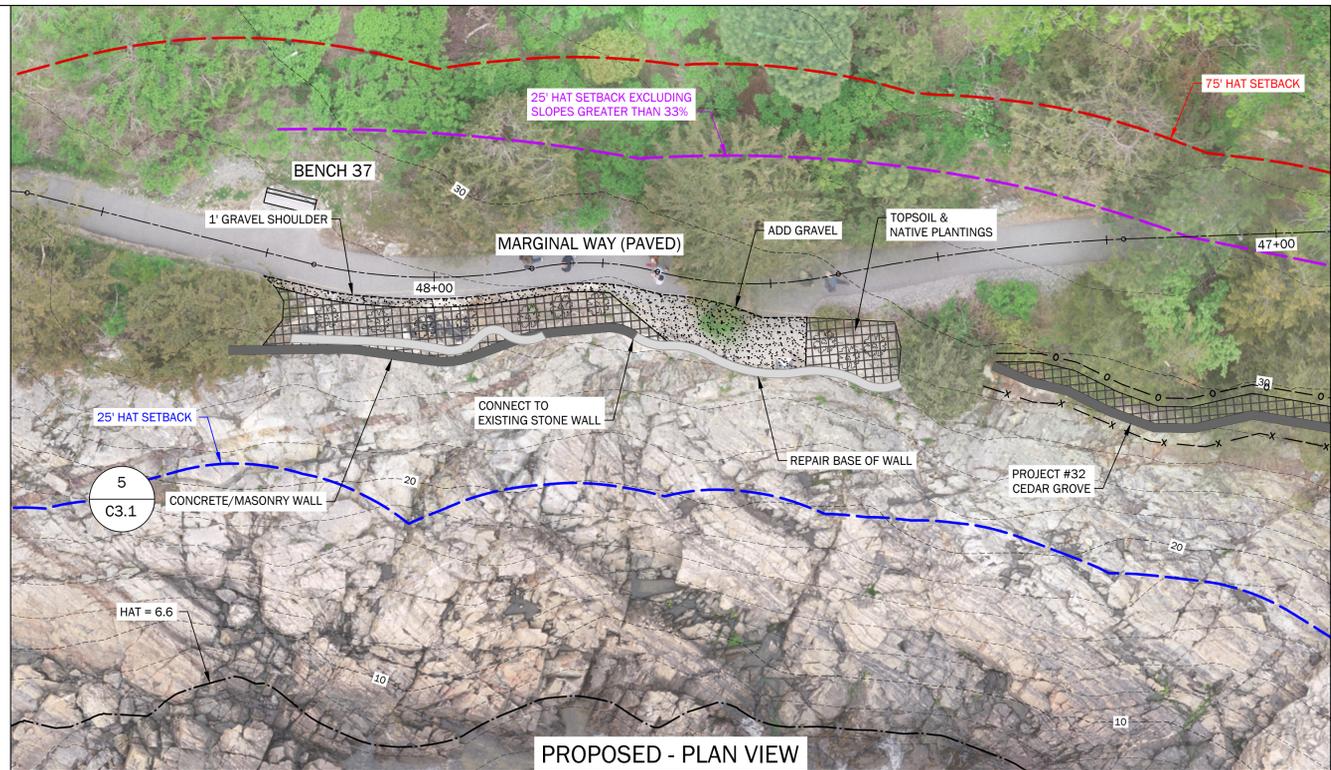
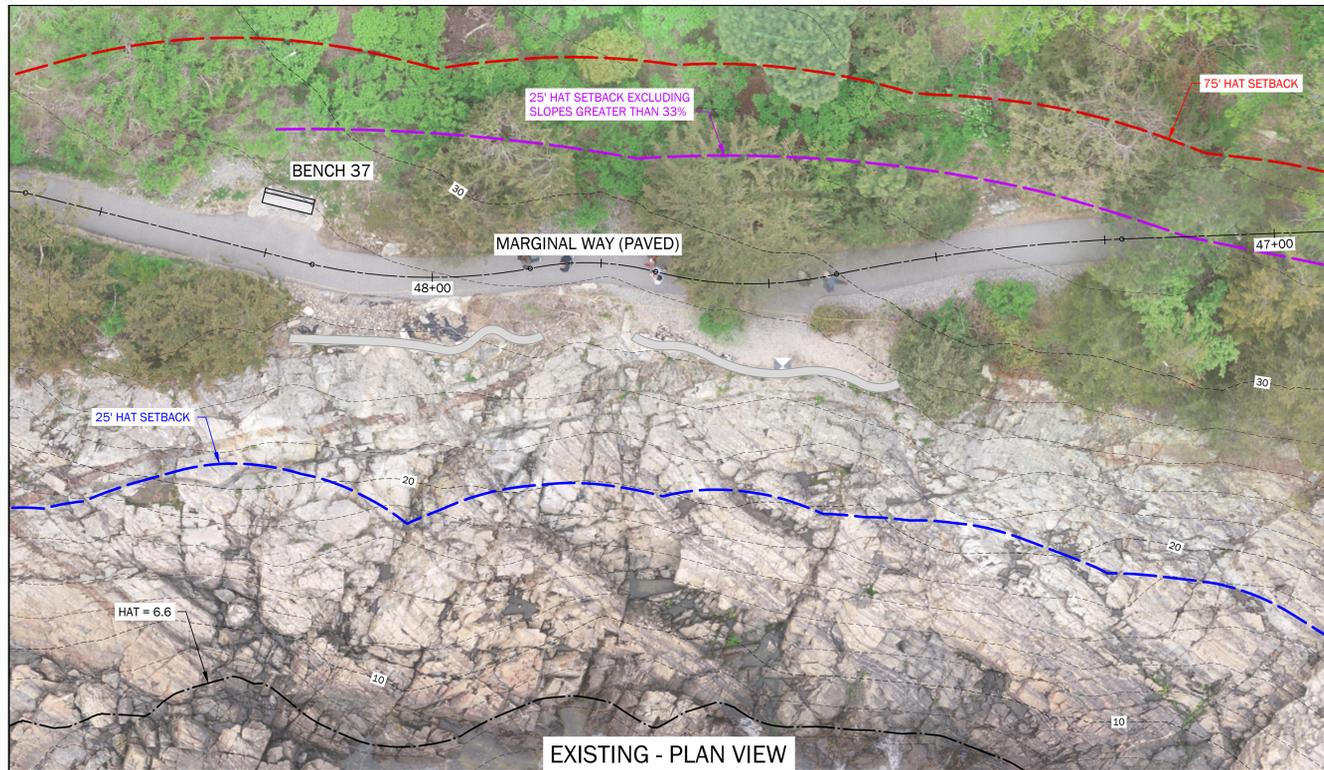
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3	1/13/20	TOWN RESUBMISSION	CAR	WRW

Sheet Title:  
**Project #32  
Cedar Grove**

Job No.: 472 Sheet No.:  
Date: May 15, 2019  
Scale: 1" = 10'  
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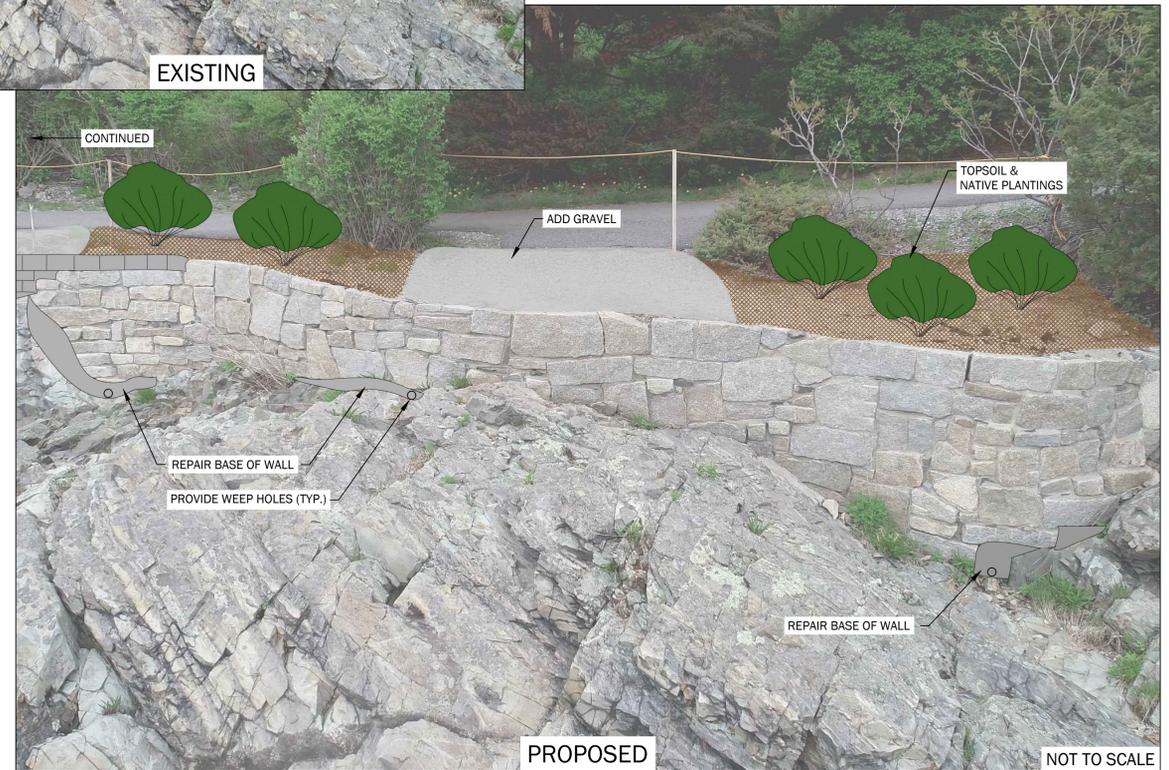
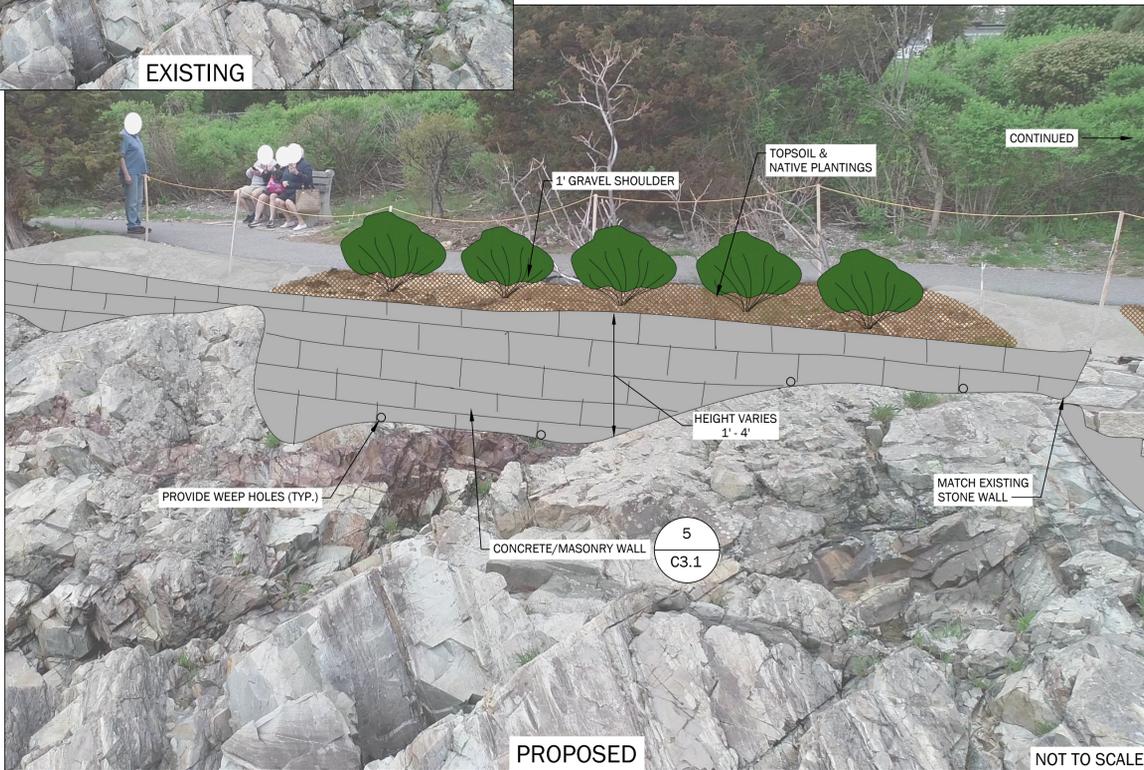
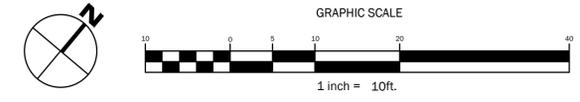
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Plan 032 Marginal Way Storm Repairs 03/20/2020 11:44 AM  
 Project: 472 Walsh Engineering Associates, Inc. 11/13/2020 11:44 AM



**#24 TWO OLD WALLS**

- ISSUE:
- STORMS HAVE DAMAGED EXISTING WALLS
  - NORTHERN WALL NEEDS REPAIRS
- SOLUTION:
- REPAIR THE BASE OF THE WALLS
  - CONNECT WALLS TO PROVIDE CONTINUOUS PROTECTION
  - INSTALL WEEP HOLES FOR PASS THROUGH OF GROUND WATER
  - RAISE WALL HEIGHT AND BACKFILL SOIL TO PATH TO PROTECT VEGETATION
  - INSTALL NATIVE VEGETATION



**Marginal Way Storm Repairs**  
Marginal Way  
Ogunquit, Maine 03907

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Town of Ogunquit  
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3	1/13/20	TOWN RESUBMISSION	CAR	WRW

Sheet Title:  
**Project #24  
Two Old Walls**

Job No.: 472 Sheet No.:  
Date: May 15, 2019  
Scale: 1" = 10'  
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Checked: WRW

**C2.16**

Plan 152 Marginal Way Storm Repairs 03/20/2020 11:44 AM  
 152 Marginal Way Storm Repairs 03/20/2020 11:44 AM



**EROSION AND SEDIMENTATION CONTROL NOTES:**

**INTRODUCTION**

THE FOLLOWING PLAN FOR CONTROLLING SEDIMENTATION AND EROSION IN THIS PROJECT IS BASED ON CONSERVATION PRACTICES FOUND IN THE MAINE EROSION & SEDIMENT CONTROL BMPs MANUAL, OCTOBER 2016, AND MAINE EROSION AND SEDIMENT CONTROL PRACTICE FIELD GUIDE FOR CONTRACTORS, REVISED 2014, MAINE DEPARTMENT OF ENVIRONMENTAL PROTECTION. THE CONTRACTOR WHO IMPLEMENTS THIS PLAN SHALL BE FAMILIAR WITH THESE PUBLICATIONS AND ADHERE TO THEM AND THE PRACTICES PRESENTED HEREIN

REFERENCE IS MADE TO THE GRADING AND DRAINAGE PLANS WITH THE PLAN SET, SHOWING THE LOCATIONS AND TYPES OF PROPOSED MEASURES TO BE IMPLEMENTED.

**GENERAL EROSION AND SEDIMENTATION CONTROL PRACTICES**

THE FOLLOWING IS A LIST OF GENERAL EROSION CONTROL PRACTICES THAT WILL BE USED TO PREVENT EROSION AND SEDIMENTATION BEFORE, DURING AND AFTER THE CONSTRUCTION OF THIS PROJECT. IN ADDITION, SPECIAL CARE SHALL BE USED AT ALL TIMES TO: LIMIT DISTURBANCE AND, HENCE, EROSION

- 1) CORRECT ANY EROSION PROBLEMS IMMEDIATELY
- 2) REGULARLY MONITOR THE IMPLEMENTED PRACTICES, ESPECIALLY AFTER EVERY RAINFALL
- 3) REVEGETATE DISTURBED AREAS AS SOON AS POSSIBLE AFTER CONSTRUCTION
- 4) CONFORM TO ALL REQUIREMENTS/STANDARDS OF THE SITE'S MAINE DEP EROSION & SEDIMENT CONTROL BMP MANUAL.

**SILT FENCE AND/OR EROSION CONTROL MIX SEDIMENT BARRIERS**

SILT FENCE AND/OR EROSION CONTROL MIX SEDIMENT BARRIERS WILL BE INSTALLED ALONG THE DOWN GRADIENT SIDE OF THE PROPOSED GROUND DISTURBANCE AREAS PRIOR TO ANY CONSTRUCTION ACTIVITIES WHERE SLOPES EXCEED 8% OR THERE IS FLOWING WATER BOTH SILT FENCE AND EROSION CONTROL MATTING BARRIERS SHALL BE USED.

**CATCH BASIN PROTECTION**

CATCH BASIN PROTECTION WILL BE INSTALLED AT THE FIRST DOWNGRADIENT CATCH BASIN IN STREET ADJACENT TO ANY CONSTRUCTION ACTIVITIES AND IN ALL ONSITE CATCH BASINS UNTIL SITE HAS BEEN COMPLETELY STABILIZED.

**CONSTRUCTION PHASE**

THE FOLLOWING GENERAL PRACTICES WILL BE IMPLEMENTED TO PREVENT EROSION DURING CONSTRUCTION ON THIS PROJECT:

1. EROSION AND SEDIMENTATION CONTROL BMPs SHALL BE INSTALLED PRIOR TO THE COMMENCEMENT OF EARTHWORK ACTIVITIES.
2. ONLY THOSE AREAS UNDER ACTIVE CONSTRUCTION WILL BE CLEARED AND LEFT IN AN UNTREATED OR UNVEGETATED CONDITION. AN AREA NO LARGER THAN WHAT CAN BE MULCHED IN ONE DAY MAY BE OPEN AT ONCE. ONCE CONSTRUCTION OF AN AREA IS COMPLETE, FINAL GRADING, LOAMING AND SEEDING SHALL OCCUR IMMEDIATELY (REFER TO "POST CONSTRUCTION REVEGETATION" SECTION). IF DURING FINAL GRADING, LOAMING AND SEEDING CAN NOT OCCUR IMMEDIATELY, IT SHALL BE DONE PRIOR TO ANY STORM EVENT AND WITHIN 15 DAYS OF COMPLETING CONSTRUCTION IN THE AREA. IF FINAL GRADING, LOAMING AND SEEDING CANNOT OCCUR WITHIN 7 DAYS, OR IF THE AREA IS NOT UNDER ACTIVE CONSTRUCTION FOR A PERIOD LONGER THAN 7 DAYS, SEE ITEM NO. 4 BELOW.
3. PRIOR TO THE START OF CONSTRUCTION IN A SPECIFIC AREA, SILT FENCING SHALL BE INSTALLED ON DOWNGRADIENT PORTIONS OF THE SITE AS LOCATED ON THE PLANS TO PROTECT AGAINST ANY CONSTRUCTION RELATED EROSION.
  - A. TREATED WITH ANCHORED MULCH (WITHIN 5 DAYS OF THE LAST DEPOSIT OF STOCKPILED SOIL).
  - B. SEEDED WITH CONSERVATION MIX AND MULCHED IMMEDIATELY.
  - C. STOCKPILES SHALL BE EITHER PLACED UPHILL OF AN EXISTING SEDIMENT BARRIER ON THE SITE OR ENCLOSED BY A HAY BALE OR SILT FENCE BARRIER THE FIRST DAY THAT STOCKPILING COMMENCES.
4. TOPSOIL WILL BE STOCKPILED WHEN NECESSARY IN AREAS WHICH HAVE MINIMUM POTENTIAL FOR EROSION AND WILL BE KEPT AS FAR AS POSSIBLE FROM EXISTING DRAINAGE AREAS AND WETLANDS. ALL STOCKPILES EXPECTED TO REMAIN LONGER THAN 7 DAYS SHALL BE:
  - A. TREATED WITH ANCHORED MULCH (WITHIN 5 DAYS OF THE LAST DEPOSIT OF STOCKPILED SOIL).
  - B. SEEDED WITH CONSERVATION MIX AND MULCHED IMMEDIATELY.
  - C. STOCKPILES SHALL BE EITHER PLACED UPHILL OF AN EXISTING SEDIMENT BARRIER ON THE SITE OR ENCLOSED BY A HAY BALE OR SILT FENCE BARRIER THE FIRST DAY THAT STOCKPILING COMMENCES.
5. ALL DISTURBED AREAS EXPECTED TO REMAIN LONGER THAN 7 DAYS SHALL BE:
  - A. TREATED WITH STRAW AT A RATE OF 70-90 LBS. PER 1000 SQUARE FEET FROM 4/16 TO 10/1, OR AT A RATE OF 150-200 LBS. PER 1000 SQUARE FEET FROM 10/1 TO 4/15.
  - B. SEEDED WITH CONSERVATION MIX OF PERENNIAL RYE GRASS (1.0 LBS./1000 SQ. FT.) AND MULCHED IMMEDIATELY. FROM 10/1 TO 4/15, FOLLOW THE SEEDING RATES AS OUTLINED BELOW IN SUB-SECTION 4.D. OF THE "POST CONSTRUCTION REVEGETATION" SECTION.
  - C. MONITORED EVERY TWO WEEKS UNTIL SEEDING CAN OCCUR AND REMULCHED AS NEEDED TO PROTECT SLOPES.
6. ALL GRADING WILL BE HELD TO A MAXIMUM 3:1 SLOPE WHERE PRACTICAL. GREATER SLOPES MAY BE USED WHERE THE BANKS ARE PROTECTED WITH SOFT ARMOUR MATTING, EROSION CONTROL MATTING, OR RIPRAP. ALL SLOPES WILL BE STABILIZED WITH PERMANENT SEEDING IMMEDIATELY AFTER FINAL GRADING IS COMPLETE. (IT IS UNDERSTOOD THAT IMMEDIATELY MEANS WITHIN 5 DAYS OF THE COMPLETION OF WORK. SEE POST-CONSTRUCTION REVEGETATION FOR SEEDING SPECIFICATION).
7. APPLICATION RATE MUST BE 2 BALES (70-90 LBS.) PER 1,000 SQUARE FEET OR 1.5 TO 2 TONS (90-100 BALES) PER ACRE TO COVER 75 TO 90% OF THE GROUND SURFACE. DRIVE OVER WITH TRACKED CONSTRUCTION EQUIPMENT ON GRADES OF 5% AND LESS.
8. CONSTRUCTION TRAFFIC WILL BE DIRECTED OVER THE EXISTING SITE ENTRANCE. THE ROAD SHALL BE SWEEPED AND VACUUMED DAILY SHOULD SEDIMENT BE TRACKED ONTO IT.
9. ALL AREAS DRAINING TO A STORMWATER FILTER OR BMP SHALL BE STABILIZED PRIOR TO CONSTRUCTION OF FILTER MEDIA TO PREVENT SEDIMENT FROM CLOGGING MEDIA.

**DEWATERING**

1. ALL DEWATERING DISCHARGE LOCATIONS SHALL BE LOCATED ON RELATIVELY FLAT GROUND AT LEAST 75' FROM STREAMS AND 25' FROM WETLANDS. THE CONTRACTOR SHALL UTILIZE DIRTBAGS, EROSION CONTROL MIX BERMS, OR SIMILAR METHODS FOR FILTRATION OF DEWATERING AND SHALL CONFORM TO THE MAINE EROSION AND SEDIMENT CONTROL BMPs G-1, G-2, AND G-3.

**POST CONSTRUCTION REVEGETATION**

THE FOLLOWING GENERAL PRACTICES WILL BE IMPLEMENTED TO PREVENT EROSION AS SOON AS AN AREA IS READY TO UNDERGO FINAL GRADING:

1. A MINIMUM OF 6" OF LOAM WILL BE SPREAD OVER DISTURBED AREAS AND GRADED TO A UNIFORM DEPTH AND NATURAL APPEARANCE.
2. LAWN AREAS: "PARK MIX" GRASS SEED BY ALLEN, STERLING & LOTHROP (FALMOUTH, MAINE), OR APPROVED EQUAL.
3. MULCH SHALL BE HAY OR STRAW MULCHES THAT ARE DRY AND FREE FROM UNDESIRABLE SEEDS AND COURSE MATERIALS.
  - A. APPLICATION RATE MUST BE 2 BALES (70-90 LBS.) PER 1,000 SQUARE FEET OR 1.5 TO 2 TONS (90-100 BALES) PER ACRE TO COVER 75 TO 90% OF THE GROUND SURFACE.
  - B. DRIVE OVER WITH TRACKED CONSTRUCTION EQUIPMENT ON GRADES OF 5% AND LESS.
  - C. BLANKET WITH TACKED PHOTODEGRADABLE/BIODEGRADABLE NETTING ON GRADES GREATER THAN 5%.
4. HYDRO-MULCH SHALL CONSIST OF A MIXTURE OF ASPHALT, WOOD FIBRE OR PAPER FIBRE AND WATER, WHICH IS SPRAYED OVER A SEEDED AREA. HYDRO-MULCH SHALL NOT BE USED BETWEEN 10/1 AND 4/15.
5. CONSTRUCTION SHALL BE PLANNED TO ELIMINATE THE NEED FOR SEEDING BETWEEN OCTOBER 1ST AND APRIL 15TH. SHOULD SEEDING BE NECESSARY BETWEEN THESE DATES, THE FOLLOWING PROCEDURE SHALL BE FOLLOWED:
  - A. ONLY UNFROZEN LOAM SHALL BE USED.
  - B. LOAMING, SEEDING AND MULCHING WILL NOT BE DONE OVER SNOW OR ICE COVER. IF SNOW EXISTS, IT MUST BE REMOVED PRIOR TO PLACEMENT OF SEED.
  - C. WHERE PERMANENT SEEDING IS NECESSARY, ANNUAL WINTER RYE (1.2 LBS./1000 S.F.) SHALL BE SOWN INSTEAD OF THE PREVIOUSLY NOTED SEEDING RATE.
  - D. WHERE TEMPORARY SEEDING IS REQUIRED, ANNUAL WINTER RYE (2.5 LBS./1000 S.F.) SHALL BE SOWN INSTEAD OF THE PREVIOUSLY NOTED SEEDING RATE.
  - E. FERTILIZING, SEEDING AND MULCHING SHALL BE DONE ON LOAM THE DAY THE LOAM IS SPREAD.
  - F. HAY MULCH SHALL BE SECURED WITH PHOTODEGRADABLE/BIODEGRADABLE NETTING. TRACKING BY MACHINERY ALONE WILL NOT SUFFICE. WINTER MULCHING RATES, SHALL BE DOUBLE AS SPECIFIED ABOVE IN SUBSECTION 3.A OF THE "POST CONSTRUCTION REVEGETATION" SECTION, SHOULD BE APPLIED DURING THIS PERIOD.
6. FOLLOWING FINAL SEEDING, THE SITE WILL BE INSPECTED EVERY 30 DAYS UNTIL 90% COVER HAS BEEN ESTABLISHED. RESEEDING WILL BE CARRIED OUT BY THE CONTRACTOR WITHIN 10 DAYS OF NOTIFICATION BY THE DESIGN PROFESSIONAL THAT THE EXISTING CATCH IS INADEQUATE.

**MONITORING SCHEDULE**

THE CONTRACTOR SHALL BE RESPONSIBLE FOR INSTALLING, MONITORING, MAINTAINING, REPAIRING, REPLACING AND REMOVING ALL OF THE EROSION AND SEDIMENTATION CONTROLS OR APPOINTING A QUALIFIED SUBCONTRACTOR TO DO SO. MAINTENANCE MEASURES WILL BE APPLIED AS NEEDED DURING THE ENTIRE CONSTRUCTION CYCLE. IMMEDIATELY FOLLOWING ANY SIGNIFICANT RAINFALL, AND AT LEAST ONCE A WEEK, A VISUAL INSPECTION WILL BE MADE OF ALL EROSION AND SEDIMENTATION CONTROLS AS FOLLOWS:

1. SILT FENCE SHALL BE INSPECTED AND REPAIRED. SEDIMENT TRAPPED BEHIND THESE BARRIERS SHALL BE EXCAVATED WHEN IT REACHES A DEPTH OF 6" AND REDISTRIBUTED TO AREAS UNDERGOING FINAL GRADING.
2. CONSTRUCTION ENTRANCE SHALL BE VISUALLY INSPECTED AND REPAIRED AS NEEDED. ANY AREAS SUBJECT TO RUTTING SHALL BE STABILIZED IMMEDIATELY. IF THE VOIDS OF THE CONSTRUCTION ENTRANCE BECOME FILLED WITH MUD, MORE CRUSHED STONE SHALL BE ADDED AS NEEDED. THE PUBLIC ROADWAY SHALL BE SWEEPED AND VACUUMED SHOULD MUD BE DEPOSITED/TRAPPED ONTO THEM.

**STANDARDS FOR STABILIZING SITES FOR THE WINTER**

THE FOLLOWING STANDARDS AND METHODOLOGIES SHALL BE USED FOR STABILIZING THE SITE DURING THE WINTER CONSTRUCTION PERIOD:

1. STANDARD FOR THE TIMELY STABILIZATION OF DISTURBED SLOPES (ANY AREA HAVING A GRADE GREATER THAN 25%) - THE CONTRACTOR WILL SEED AND MULCH ALL SLOPES TO BE VEGETATED BY SEPTEMBER 15TH. IF THE CONTRACTOR FAILS TO STABILIZE ANY SLOPE TO BE VEGETATED BY SEPTEMBER 15TH, THEN THE CONTRACTOR WILL TAKE ONE OF THE FOLLOWING ACTIONS TO STABILIZE THE SLOPE FOR LATE FALL AND WINTER.
  - A. STABILIZE THE SOIL WITH TEMPORARY VEGETATION AND EROSION CONTROL MATS: BY OCTOBER 1ST THE CONTRACTOR WILL SEED THE DISTURBED SLOPE WITH WINTER RYE AT A RATE OF 3 POUNDS PER 1000 SQUARE FEET AND THEN INSTALL EROSION CONTROL MATS OR ANCHORED HAY MULCH OVER THE SEEDING AT TWICE THE RATE AS SPECIFIED ABOVE IN SUBSECTION 3.A OF THE "POST CONSTRUCTION REVEGETATION" SECTION. THE CONTRACTOR WILL MONITOR GROWTH OF THE RYE OVER THE NEXT 30 DAYS.
  - B. STABILIZE THE SLOPE WITH WOOD-WASTE COMPOST: THE CONTRACTOR WILL PLACE A SIX-INCH LAYER OF WOOD-WASTE COMPOST ON THE SLOPE BY NOVEMBER 15TH. THE CONTRACTOR WILL NOT USE WOOD-WASTE COMPOST TO STABILIZE SLOPES HAVING GRADES GREATER THAN 50% (2H:1V) OR HAVING GROUNDWATER SEEPS ON THE SLOPE FACE.
  - C. STABILIZE THE SLOPE WITH STONE RIPRAP: THE CONTRACTOR WILL PLACE A LAYER OF STONE RIPRAP ON THE SLOPE BY NOVEMBER 15TH. THE DEVELOPER'S OWNER WILL HIRE A REGISTERED PROFESSIONAL ENGINEER TO DETERMINE THE STONE SIZE NEEDED FOR STABILITY ON THE SLOPE AND TO DESIGN A FILTER LAYER FOR UNDERNEATH THE RIPRAP.
2. STANDARD FOR THE TIMELY STABILIZATION OF DISTURBED SOILS - BY SEPTEMBER 15TH THE CONTRACTOR WILL SEED AND MULCH ALL

DISTURBED SOILS ON THE SITE. IF THE CONTRACTOR FAILS TO STABILIZE THESE SOILS BY THIS DATE, THEN THE CONTRACTOR WILL TAKE ONE OF THE FOLLOWING ACTIONS TO STABILIZE THE SOIL FOR LATE FALL AND WINTER.

- A. STABILIZE THE SOIL WITH TEMPORARY VEGETATION: BY OCTOBER 1ST THE CONTRACTOR WILL SEED THE DISTURBED SOIL WITH WINTER RYE AT A SEEDING RATE OF 3 POUNDS PER 1000 SQUARE FEET, LIGHTLY MULCH THE SEEDED SOIL WITH HAY OR STRAW AT 75 POUNDS PER 1000 SQUARE FEET, AND ANCHOR THE MULCH WITH PLASTIC NETTING. THE CONTRACTOR WILL MONITOR GROWTH OF THE RYE OVER THE NEXT 30 DAYS. IF THE RYE FAILS TO GROW AT LEAST THREE INCHES OR FAILS TO COVER AT LEAST 75% OF THE DISTURBED SOIL BEFORE NOVEMBER 1, THEN THE CONTRACTOR WILL MULCH THE AREA FOR OVER-WINTER PROTECTION AS DESCRIBED IN ITEM III OF THIS STANDARD.
- B. STABILIZE THE SOIL WITH SOD: THE CONTRACTOR WILL STABILIZE THE DISTURBED SOIL WITH PROPERLY INSTALLED SOD BY OCTOBER 1ST. PROPER INSTALLATION INCLUDES THE CONTRACTOR PINNING THE SOD ONTO THE SOIL WITH WIRE PINS, ROLLING THE SOD TO GUARANTEE CONTACT BETWEEN THE SOD AND UNDERLYING SOIL, AND WATERING THE SOD TO PROMOTE ROOT GROWTH INTO THE DISTURBED SOIL.
- C. STABILIZE THE SOIL WITH MULCH: BY NOVEMBER 15TH THE CONTRACTOR WILL MULCH THE DISTURBED SOIL BY SPREADING HAY OR STRAW AT A RATE OF AT LEAST 150 POUNDS PER 1000 SQUARE FEET ON THE AREA SO THAT NO SOIL IS VISIBLE THROUGH THE MULCH. IMMEDIATELY AFTER APPLYING THE MULCH, THE CONTRACTOR WILL ANCHOR THE MULCH WITH NETTING OR OTHER METHOD TO PREVENT WIND FROM MOVING THE MULCH OFF THE DISTURBED SOIL.

**EROSION CONTROL REMOVAL**

AN AREA IS CONSIDERED STABLE IF IT IS PAVED OR IF 90% GROWTH OF PLANTED SEEDS IS ESTABLISHED. ONCE AN AREA IS CONSIDERED STABLE, THE EROSION CONTROL MEASURES CAN BE REMOVED AS FOLLOWS:

1. SILT FENCE: SILT FENCE SHALL BE DISPOSED OF LEGALLY AND PROPERLY OFF-SITE. ALL SEDIMENT TRAPPED BEHIND THESE CONTROLS SHALL BE REDISTRIBUTED TO AN AREA UNDERGOING FINAL GRADING OR REMOVED AND RELOCATED OFF-SITE.
2. STABILIZED CONSTRUCTION ENTRANCE: THE STABILIZED CONSTRUCTION ENTRANCE SHALL BE REMOVED ONCE THE COMPACTED ROADWAY BASE IS IN PLACE. STONE AND SEDIMENT FROM THE CONSTRUCTION ENTRANCE SHALL BE REDISTRIBUTED TO AN AREA UNDERGOING GRADING OR REMOVED AND RELOCATED OFF-SITE.
3. MISCELLANEOUS: ONCE ALL THE TRAPPED SEDIMENTS HAVE BEEN REMOVED FROM THE TEMPORARY SEDIMENTATION DEVICES THE DISTURBED AREAS MUST BE GRADED IN AN AESTHETIC MANNER TO CONFORM TO THE SURROUNDING TOPOGRAPHY. ONCE GRADED THESE DISTURBED AREAS MUST BE LOAMED (IF NECESSARY), FERTILIZED, SEEDED AND MULCHED IN ACCORDANCE WITH THE RATES PREVIOUSLY STATED.

THE ABOVE EROSION CONTROLS MUST BE REMOVED WITHIN 30 DAYS OF FINAL STABILIZATION OF THE SITE. CONFORMANCE WITH THIS PLAN AND FOLLOWING THESE PRACTICES WILL RESULT IN A PROJECT THAT COMPLIES WITH THE STATE REGULATIONS AND THE STANDARDS OF THE NATURAL RESOURCES PROTECTION ACT, AND WILL PROTECT WATER QUALITY IN AREAS DOWNSTREAM FROM THE PROJECT.

**MAINE CONSTRUCTION GENERAL PERMIT REQUIRED**

SUBMISSION OF A MAINE CONSTRUCTION GENERAL PERMIT (MCGP) IS REQUIRED PRIOR TO COMMENCEMENT OF ANY EXCAVATION ACTIVITIES.

**INSPECTION AND MAINTENANCE (APPENDIX B)**

1. INSPECTION AND MAINTENANCE REQUIREMENTS: INSPECT DISTURBED AND IMPERVIOUS AREAS, EROSION AND STORMWATER CONTROL MEASURES, AREAS USED FOR STORAGE THAT ARE EXPOSED TO PRECIPITATION, AND LOCATIONS WHERE VEHICLES ENTER OR EXIT THE SITE. INSPECT THESE AREAS AT LEAST ONCE A WEEK AS WELL AS BEFORE AND AFTER A SIGNIFICANT STORM EVENT (0.5 INCHES OF RAINFALL IN A 24-HOUR PERIOD) AND PRIOR TO COMPLETION OF PERMANENT STABILIZATION MEASURES. A PERSON WITH KNOWLEDGE OF EROSION AND STORMWATER CONTROL, INCLUDING THE STANDARDS IN THE MCGP AND ANY DEPARTMENTAL COMPANION DOCUMENT TO THE MCGP, MUST CONDUCT THE INSPECTION. THIS PERSON MUST BE IDENTIFIED IN THE INSPECTION LOG. IF BEST MANAGEMENT PRACTICES (BMPs) NEED TO BE MODIFIED OR IF ADDITIONAL BMPs ARE NECESSARY, IMPLEMENTATION MUST BE STARTED BY THE END OF THE NEXT WORKING DAY AND COMPLETED WITHIN 7 CALENDAR DAYS AND PRIOR TO ANY STORM EVENT (RAINFALL). ALL MEASURES MUST BE MAINTAINED IN EFFECTIVE OPERATING CONDITION UNTIL AREAS ARE PERMANENTLY STABILIZED. DOCUMENTATION OF CORRECTION ACTIONS SHALL BE MAINTAINED WITH THE INSPECTION FORMS.
2. INSPECTION LOG (REPORT): A LOG (REPORT) MUST BE KEPT SUMMARIZING THE SCOPE OF THE INSPECTION, NAME(S) AND QUALIFICATIONS OF THE PERSONNEL MAKING THE INSPECTION, THE DATE(S) OF THE INSPECTION, AND MAJOR OBSERVATIONS RELATING TO OPERATION OF EROSION AND SEDIMENTATION CONTROLS AND POLLUTION PREVENTION MEASURES. MAJOR OBSERVATIONS MUST INCLUDE BMPs THAT NEED MAINTENANCE, BMPs THAT FAILED TO OPERATE AS DESIGNED OR PROVED INADEQUATE FOR A PARTICULAR LOCATION, AND LOCATION(S) WHERE ADDITIONAL BMPs ARE NEEDED. FOR EACH BMP REQUIRING MAINTENANCE, BMP NEEDING REPLACEMENT, AND LOCATION NEEDING ADDITIONAL BMPs, NOTE IN THE INSPECTION LOG THE CORRECT ACTION TAKEN AND WHEN IT WAS TAKEN. THE LOG MUST BE MADE ACCESSIBLE TO THE DEPARTMENT STAFF AND A COPY MUST BE PROVIDED UPON REQUEST. THE PERMITTEE SHALL RETAIN A COPY OF THE LOG FOR A PERIOD OF AT LEAST THREE YEARS FROM THE COMPLETION OF THE PERMANENT STABILIZATION.

**HOUSEKEEPING (APPENDIX C)**

1. SPILL PREVENTION: CONTROLS MUST BE USED TO PREVENT POLLUTANTS FROM CONSTRUCTION AND WASTE MATERIALS STORED ON SITE TO ENTER STORMWATER, WHICH INCLUDES STORAGE PRACTICES TO MINIMIZE EXPOSURE OF THE MATERIALS TO STORMWATER. THE SITE CONTRACTOR OR OPERATOR MUST DEVELOP, AND IMPLEMENT AS NECESSARY, APPROPRIATE SPILL PREVENTION, CONTAINMENT, AND RESPONSE PLANNING MEASURES.
 

NOTE: ANY SPILL OR RELEASE OF TOXIC OR HAZARDOUS SUBSTANCES MUST BE REPORTED TO THE DEPARTMENT. FOR OIL SPILLS, CALL 1-800-482-0777 WHICH IS AVAILABLE 24 HOURS A DAY. FOR SPILLS OF TOXIC OR HAZARDOUS MATERIAL, CALL 1-800-452-4664 WHICH IS AVAILABLE 24 HOURS A DAY. FOR MORE INFORMATION, VISIT THE DEPARTMENT'S WEBSITE AT: [HTTP://WWW.MAINE.GOV/DEP/SPILLS/EMERGSPILLSRPS/](http://www.maine.gov/dep/spills/emergspillsrps/)
2. GROUNDWATER PROTECTION: DURING CONSTRUCTION, LIQUID PETROLEUM PRODUCTS AND OTHER HAZARDOUS MATERIALS WITH THE POTENTIAL TO CONTAMINATE GROUNDWATER MAY NOT BE STORED OR HANDLED IN AREAS OF THE SITE DRAINING TO AN INFILTRATION AREA. AN "INFILTRATION AREA" IS ANY AREA OF THE SITE THAT BY DESIGN OR AS A RESULT OF SOILS, TOPOGRAPHY AND OTHER RELEVANT FACTORS ACCUMULATES RUNOFF THAT INFILTRATES INTO THE SOIL, DICES, BERMS, SLUMPS, AND OTHER FORMS OF SECONDARY CONTAINMENT THAT PREVENT DISCHARGE TO GROUNDWATER MAY BE USED TO ISOLATE PORTIONS OF THE SITE FOR THE PURPOSES OF STORAGE AND HANDLING OF THESE MATERIALS. ANY PROJECT PROPOSING

INFILTRATION OF STORMWATER MUST PROVIDE ADEQUATE PRE-TREATMENT OF STORMWATER PRIOR TO DISCHARGE OF STORMWATER TO THE INFILTRATION AREA, OR PROVIDE FOR TREATMENT WITHIN THE INFILTRATION AREA, IN ORDER TO PREVENT THE ACCUMULATION OF FINES, REDUCTION IN INFILTRATION RATE, AND CONSEQUENT FLOODING AND DESTABILIZATION.

NOTE: LACK OF APPROPRIATE POLLUTANT REMOVAL BEST MANAGEMENT PRACTICES (BMPs) MAY RESULT IN VIOLATIONS OF THE GROUNDWATER QUALITY STANDARD ESTABLISHED BY 38 M.R.S.A. §465-C(1).

3. FUGITIVE SEDIMENT AND DUST: ACTIONS MUST BE TAKEN TO ENSURE THAT ACTIVITIES DO NOT RESULT IN NOTICEABLE EROSION OF SOILS OR FUGITIVE DUST EMISSIONS DURING OR AFTER CONSTRUCTION. OIL MAY NOT BE USED FOR DUST CONTROL, BUT OTHER WATER ADDITIVES MAY BE CONSIDERED AS NEEDED. A STABILIZED CONSTRUCTION ENTRANCE (SCE) SHOULD BE INCLUDED TO MINIMIZE TRACKING OF MUD AND SEDIMENT. IF OFF-SITE TRACKING OCCURS, PUBLIC ROADS SHOULD BE SWEEPED IMMEDIATELY AND NO LESS THAN ONCE A WEEK AND PRIOR TO SIGNIFICANT STORM EVENTS. OPERATIONS DURING DRY MONTHS, THAT EXPERIENCE FUGITIVE DUST PROBLEMS, SHOULD WET DOWN UNPAVED ACCESS ROADS ONCE A WEEK OR MORE FREQUENTLY AS NEEDED WITH A WATER ADDITIVE TO SUPPRESS FUGITIVE SEDIMENT AND DUST.

NOTE: DEWATERING A STREAM WITHOUT A PERMIT FROM THE DEPARTMENT MAY VIOLATE STATE WATER QUALITY STANDARDS AND THE NATURAL RESOURCES PROTECTION ACT.

4. DEBRIS AND OTHER MATERIALS: MINIMIZE THE EXPOSURE OF CONSTRUCTION DEBRIS, BUILDING AND LANDSCAPING MATERIALS, TRASH, FERTILIZERS, PESTICIDES, HERBICIDES, DETERGENTS, SANITARY WASTE AND OTHER MATERIALS TO PRECIPITATION AND STORMWATER RUNOFF. THESE MATERIALS MUST BE PREVENTED FROM BECOMING A POLLUTANT SOURCE.

NOTE: TO PREVENT THESE MATERIALS FROM BECOMING A SOURCE OF POLLUTANTS, CONSTRUCTION AND POST-CONSTRUCTION ACTIVITIES RELATED TO A PROJECT MAY BE REQUIRED TO COMPLY WITH APPLICABLE PROVISIONS OF RULES RELATED TO SOLID, UNIVERSAL, AND HAZARDOUS WASTE, INCLUDING, BUT NOT LIMITED TO, THE MAINE SOLID WASTE AND HAZARDOUS WASTE MANAGEMENT RULES, MAINE HAZARDOUS WASTE MANAGEMENT RULES, MAINE OIL CONVEYANCE AND STORAGE RULES, AND MAINE PESTICIDE REQUIREMENTS.

5. EXCAVATION DEWATERING: EXCAVATION DEWATERING IS THE REMOVAL OF WATER FROM TRENCHES, FOUNDATIONS, COFFER DAMS, PONDS, AND OTHER AREAS WITHIN THE CONSTRUCTION AREA THAT RETAIN WATER AFTER EXCAVATION. IN MOST CASES THE COLLECTED WATER IS HEAVILY SILTED AND HINDERS CORRECT AND SAFE CONSTRUCTION PRACTICES. THE COLLECTED WATER REMOVED FROM THE PONDED AREA, EITHER THROUGH GRAVITY OR PUMPING, MUST BE SPREAD THROUGH NATURAL WOODED BUFFERS OR REMOVED TO AREAS THAT ARE SPECIFICALLY DESIGNED TO COLLECT THE MAXIMUM AMOUNT OF SEDIMENT POSSIBLE, LIKE A COFFERDAM SEDIMENTATION BASIN, AVOID ALLOWING THE WATER TO FLOW OVER DISTURBED AREAS OF THE SITE. EQUIVALENT MEASURES MAY BE TAKEN IF APPROVED BY THE DEPARTMENT.

NOTE: DEWATERING CONTROLS ARE DISCUSSED IN THE "MAINE EROSION AND SEDIMENT CONTROL BMPs, MAINE DEPARTMENT OF ENVIRONMENTAL PROTECTION."

6. AUTHORIZED NON-STORMWATER DISCHARGES: IDENTIFY AND PREVENT CONTAMINATION BY NON-STORMWATER DISCHARGES. WHERE ALLOWED NON-STORMWATER DISCHARGES EXIST, THEY MUST BE IDENTIFIED AND STEPS SHOULD BE TAKEN TO ENSURE THE IMPLEMENTATION OF APPROPRIATE POLLUTION PREVENTION MEASURES FOR THE NON-STORMWATER COMPONENT(S) OF THE DISCHARGE. AUTHORIZED NON-STORMWATER DISCHARGES ARE:
  - DISCHARGES FROM FIREFIGHTING ACTIVITY;
  - FIRE HYDRANT FLUSHINGS;
  - VEHICLE WASHWATER (DETERGENTS ARE NOT USED AND WASHING IS LIMITED TO THE EXTERIOR OF VEHICLES (ENGINE, UNDERCARRIAGE, AND TRANSMISSION WASHING IS PROHIBITED);
  - DUST CONTROL RUNOFF IN ACCORDANCE WITH PERMIT CONDITIONS AND APPENDIX C(1)(3);
  - ROUTINE EXTERNAL BUILDING WASHDOWN, NOT INCLUDING SURFACE PAINT REMOVAL, THAT DOES NOT INVOLVE DETERGENTS;
  - PAVEMENT WASHWATER (WHERE SPILLS/LEAKS OF TOXIC OR HAZARDOUS MATERIALS HAVE NOT OCCURRED, UNLESS ALL SPILLED MATERIAL HAD BEEN REMOVED); IF DETERGENTS ARE NOT USED;
  - UNCONTAMINATED AIR CONDITIONING OR COMPRESSOR CONDENSATE;
  - UNCONTAMINATED GROUNDWATER OR SPRING WATER;
  - FOUNDATION OR FOOTER DRAIN WATER WHERE FLOWS ARE NOT CONTAMINATED;
  - UNCONTAMINATED EXCAVATION DEWATERING (SEE REQUIREMENTS IN APPENDIX C(5));
  - POTABLE WATER SOURCES INCLUDING WATERLINE FLUSHINGS; AND
  - LANDSCAPE IRRIGATION

7. UNAUTHORIZED NON-STORMWATER DISCHARGES: THE DEPARTMENT'S APPROVAL UNDER THIS CHAPTER DOES NOT AUTHORIZE A DISCHARGE THAT IS MIXED WITH A SOURCE OF NON-STORMWATER, OTHER THAN THOSE DISCHARGES IN COMPLIANCE WITH APPENDIX C (6). SPECIFICALLY, THE DEPARTMENT'S APPROVAL DOES NOT AUTHORIZE DISCHARGES OF THE FOLLOWING:
  - WASTEWATER FROM THE WASHOUT OR CLEANOUT OF CONCRETE, STUCCO, PAINT, FORM RELEASE OILS, CURING COMPOUNDS OR OTHER CONSTRUCTION MATERIALS;
  - FUELS, OILS OR OTHER POLLUTANTS USED IN VEHICLE AND EQUIPMENT OPERATION AND MAINTENANCE;
  - SOAPS, SOLVENTS, OR DETERGENTS USED IN VEHICLE AND EQUIPMENT WASHING; AND
  - TOXIC OR HAZARDOUS SUBSTANCES FROM A SPILL OR OTHER RELEASE.

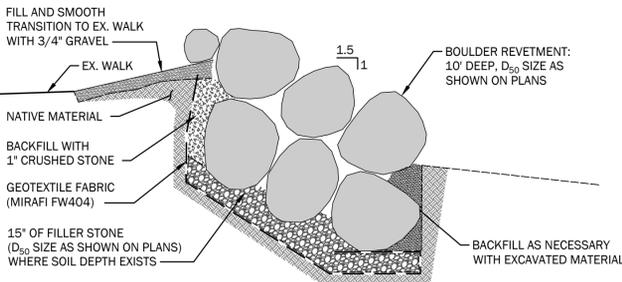
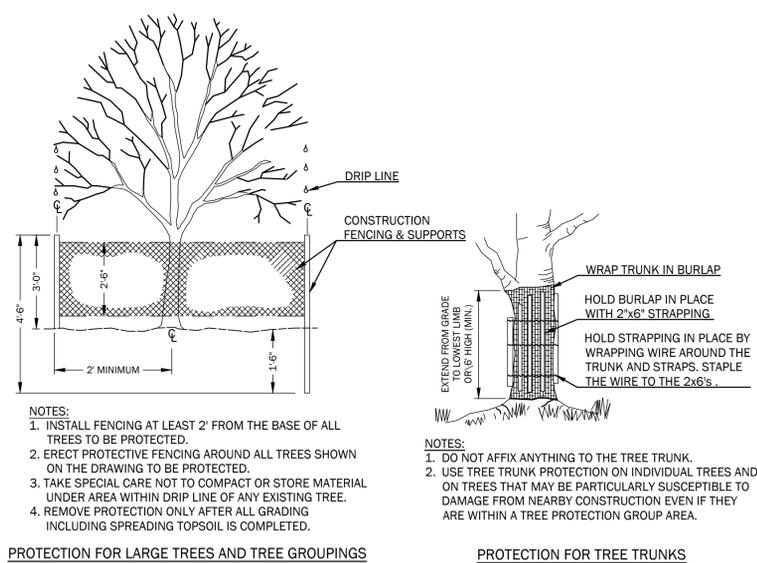
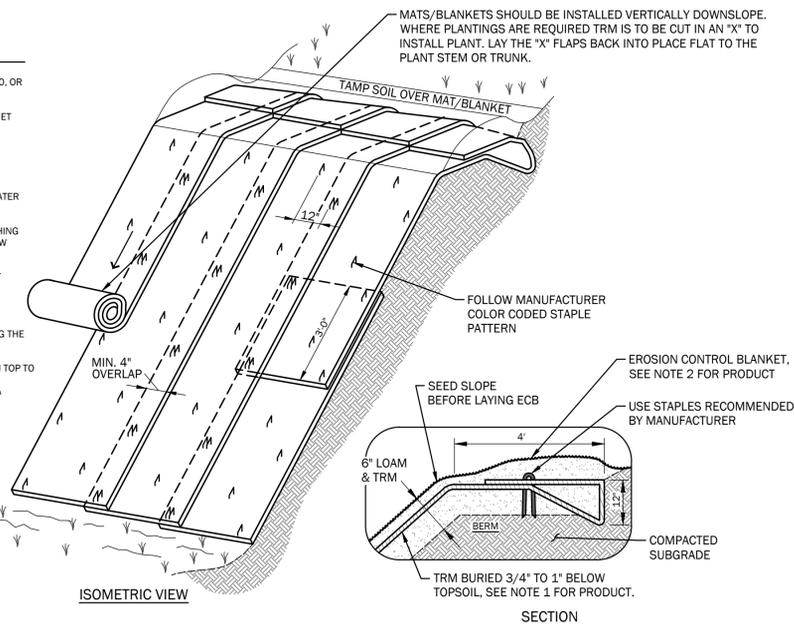
8. ADDITIONAL REQUIREMENTS: ADDITIONAL REQUIREMENTS MAY BE APPLIED ON A SITE-SPECIFIC BASIS.

**1 EROSION AND SEDIMENTATION CONTROL NOTES**

C3.0 NOT TO SCALE

**INSTALLATION INSTRUCTIONS:**

1. TURF REINFORCEMENT MAT (TRM) MATERIAL SHALL BE ENKAMAT 7020, OR APPROVED EQUAL.
2. EROSION CONTROL BLANKET (ECB) SHALL BE BIONET S75B SINGLE NET STRAW BLANKET BY NORTH AMERICAN GREEN OR APPROVED EQUAL.
3. FOR TRM INSTALLATION ONLY:
  - 3.1. APPLY 4" OF LOAM ONTO THE GROUND SURFACE.
  - 3.2. OVER TOP THE 4" OF LOAM, UNROLL MAT IN THE DIRECTION OF WATER FLOW.
4. MAT SHOULD LIE FLAT. DO NOT STRETCH MAT OVER GROUND. STRETCHING MAY CAUSE MAT TO BRIDGE DEPRESSIONS IN THE SURFACE AND ALLOW EROSION UNDERNEATH.
5. BURY TRANSVERSE TERMINAL ENDS OF MAT TO SECURE AND PREVENT EROSION UNDERNEATH.
6. SECURE MAT SNUGLY INTO ALL TRANSVERSE CHECK SLOTS.
7. BACKFILL AND COMPACT TRENCHES AND CHECK SLOTS AFTER STAKING THE MAT IN BOTTOM OF TRENCH.
8. OVERLAP ROLL ENDS BY THREE (3) FEET (MIN.) WITH UPSLOPE MAT ON TOP TO PREVENT UPLIFT OF MAT END BY WATER FLOW. IF INSTALLING IN THE DIRECTION OF A CONCENTRATED WATER FLOW, START NEW ROLLS IN A TRANSVERSE DITCH.
9. OVERLAP ADJACENT EDGES OF MAT BY 4 INCHES (MIN.) AND STAKE.
10. USE WOOD STAKES OR STAPLES FOR PINNING MAT TO THE GROUND SURFACE, PER MANUFACTURER'S RECOMMENDATIONS.
11. IN ALL TRANSVERSE TERMINAL TRENCHES AND CHECK SLOTS, STAKE EACH MAT AT ITS CENTER AND OVERLAP EDGES BEFORE BACKFILLING AND COMPACTING.
12. STAKE OVERLAPS LONGITUDINALLY AT 3 TO 5 FOOT INTERVALS.
13. WORK ADDITIONAL LOAM INTO THE MAT AND COVER THE MAT SURFACE WITH 3/4" TO 1" OF LOAM, THEN SEED AND COVER WITH ECB.



**2 RIPRAP REVETMENT DETAIL**

C3.0 NOT TO SCALE

**3 STRAW MATTING (ECB) AND TURF REINFORCEMENT MAT (TRM) FOR SLOPE EROSION CONTROL**

C3.0 NOT TO SCALE

**4 EXISTING TREE PROTECTION**

C3.0 NOT TO SCALE

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STATE OF MAINE  
WILLIAM R. WALSH, III  
No. 8204  
1/13/20  
LICENSED PROFESSIONAL ENGINEER

**Marginal Way Storm Repairs**  
Marginal Way  
Ogunquit, Maine 03907

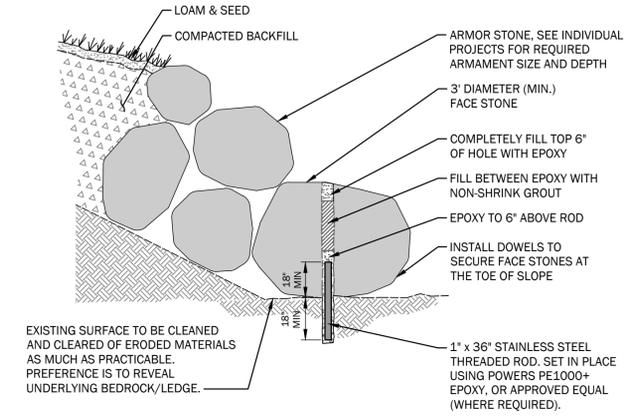
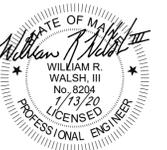
**Marginal Way Committee**  
Town of Ogunquit  
25 School Street P.O. Box 875  
Ogunquit, Maine 03907

Rev.	Date	Description	Drawn	Check
1	6/10/19	TOWN	CAR	WRW
2	9/10/19	DEP SUBMISSION	CAR	WRW
3	1/13/20	TOWN RESUBMISSION	CAR	WRW

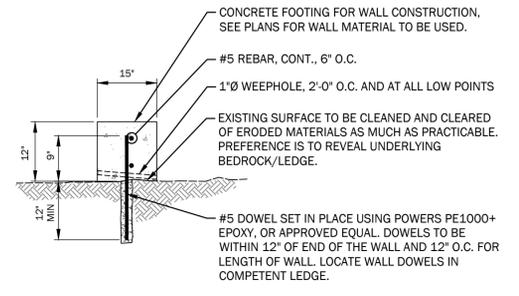
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**Site Details**

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Date: May 15, 2019  
Scale: As Noted  
Drawn: CAR  
Checked: WRW

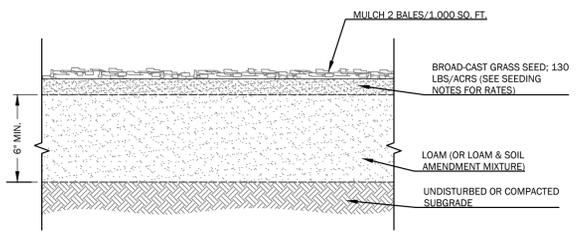
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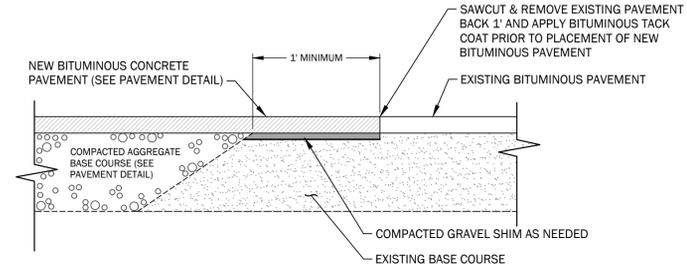
**1** TYPICAL ROCK DOWELED TO LEDGE DETAIL  
C3.1 NOT TO SCALE



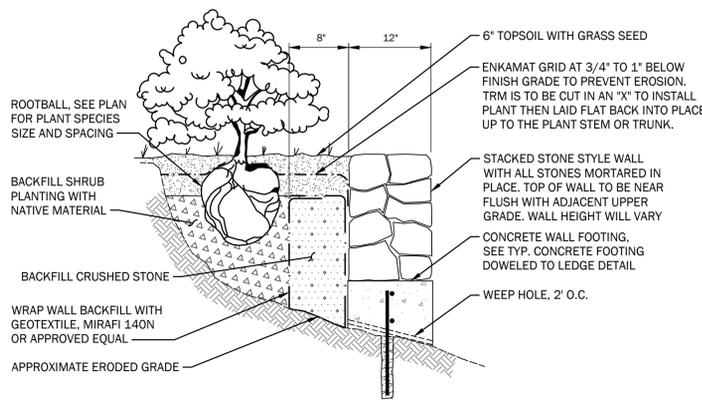
**2** TYPICAL CONCRETE FOOTING DOWELED TO LEDGE DETAIL  
C3.1 NOT TO SCALE



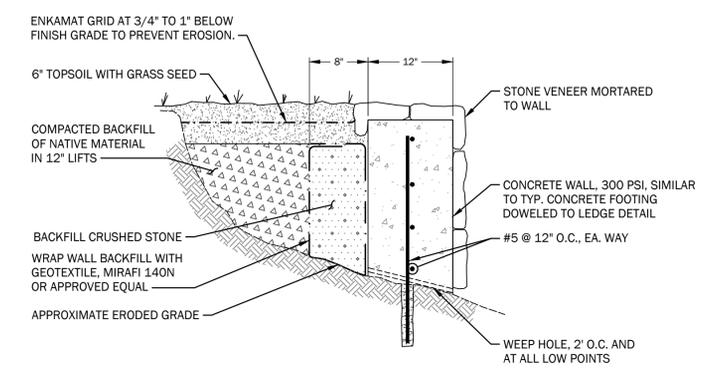
**3** LOAM AND SEED DETAIL  
C3.1 NOT TO SCALE



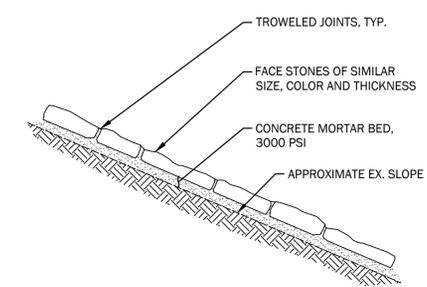
**4** PAVEMENT SAW CUT DETAIL  
C3.1 NOT TO SCALE



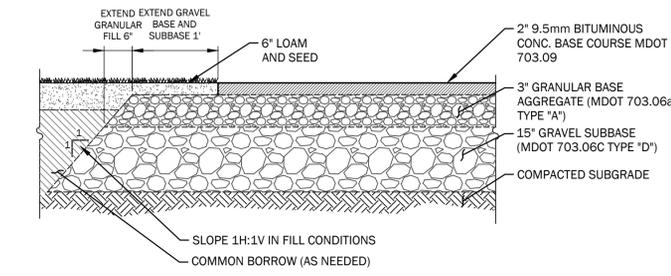
**5** TYPICAL REPLACEMENT WALL DETAIL  
C3.1 NOT TO SCALE



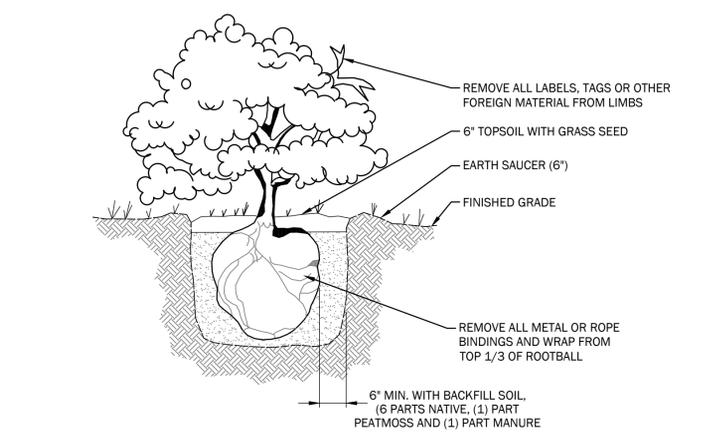
**6** TYPICAL CONCRETE WITH VENEER WALL DETAIL  
C3.1 NOT TO SCALE



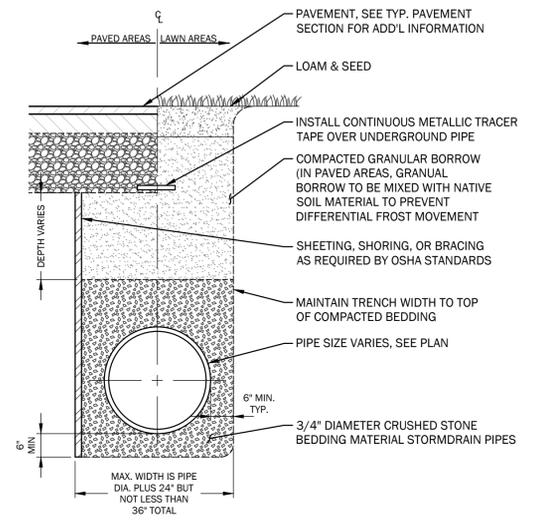
**7** MORTARED STONE DETAIL  
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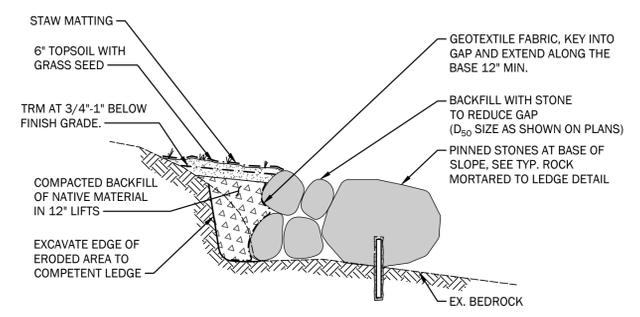
**8** PAVED SIDEWALK SECTION  
C3.1 NOT TO SCALE



**9** TYPICAL SHRUB PLANTING INSTALLATION  
C3.1 NOT TO SCALE



**10** TYPICAL PIPE TRENCHING  
C3.1 NOT TO SCALE



**11** ROCK DOWELED TO LEDGE WITH BACKFILL DETAIL  
C3.1 NOT TO SCALE

Marginal Way Storm Repairs

Marginal Way  
Ogunquit, Maine 03907

Marginal Way Committee

Town of Ogunquit  
25 School Street P.O. Box 875  
Ogunquit, Maine 03907

Rev.	Date	Description	Drawn	Check
1	6/10/19	TOWN	CAR	WRW
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Site Details

Job No.:	472	Sheet No.:	
Date:	May 15, 2019	Scale:	As Noted
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**C3.1**