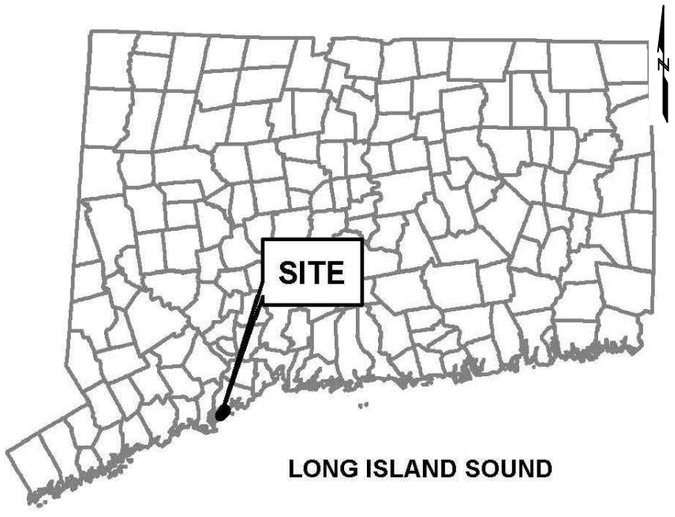
WALNUT & WILDEMERE BEACH STABILIZATION PROJECT

MILFORD, CONNECTICUT



STATE MAP

0 15mi 30mi 60mi
1" = 30mi

REGIONAL MAP

0 2000 4000
SCALE: 1" = 2000'

SCHEDULE OF DRAWINGS

PREPARED BY:

GEI Consultants
455 WINDING BROOK DRIVE
SUITE 201
GLASTONBURY, CT 06033
(860)368-5300

PREPARED FOR:

CITY OF MILFORD
MILFORD, CONNECTICUT

NO.	DATE	ISSUE/REVISION	APP
5	01/16/2019	COIR REINFORCEMENT DETAILS ADDED	JM
4	11/28/2018	DRAINAGE OUTFALL REVISIONS	JM
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2	03/23/2018	REVISIONS PER MILFORD FECB	JM
1	03/09/2018	REVISIONS PER MILFORD FECB	JM
0	12/12/2017	PERMIT REVIEW	JM

Attention:
0 1"
If this scale bar does not measure 1" then drawing is not original scale.

Designed: JM
Checked: BG
Drawn: DE
Approved By: JM

Walnut & Wildemere Beach Stabilization Project
Milford, Connecticut

City of Milford
Milford, Connecticut

GEI Consultants

COVER/INDEX SHEET

Project 1700458 | December 2017 | Index

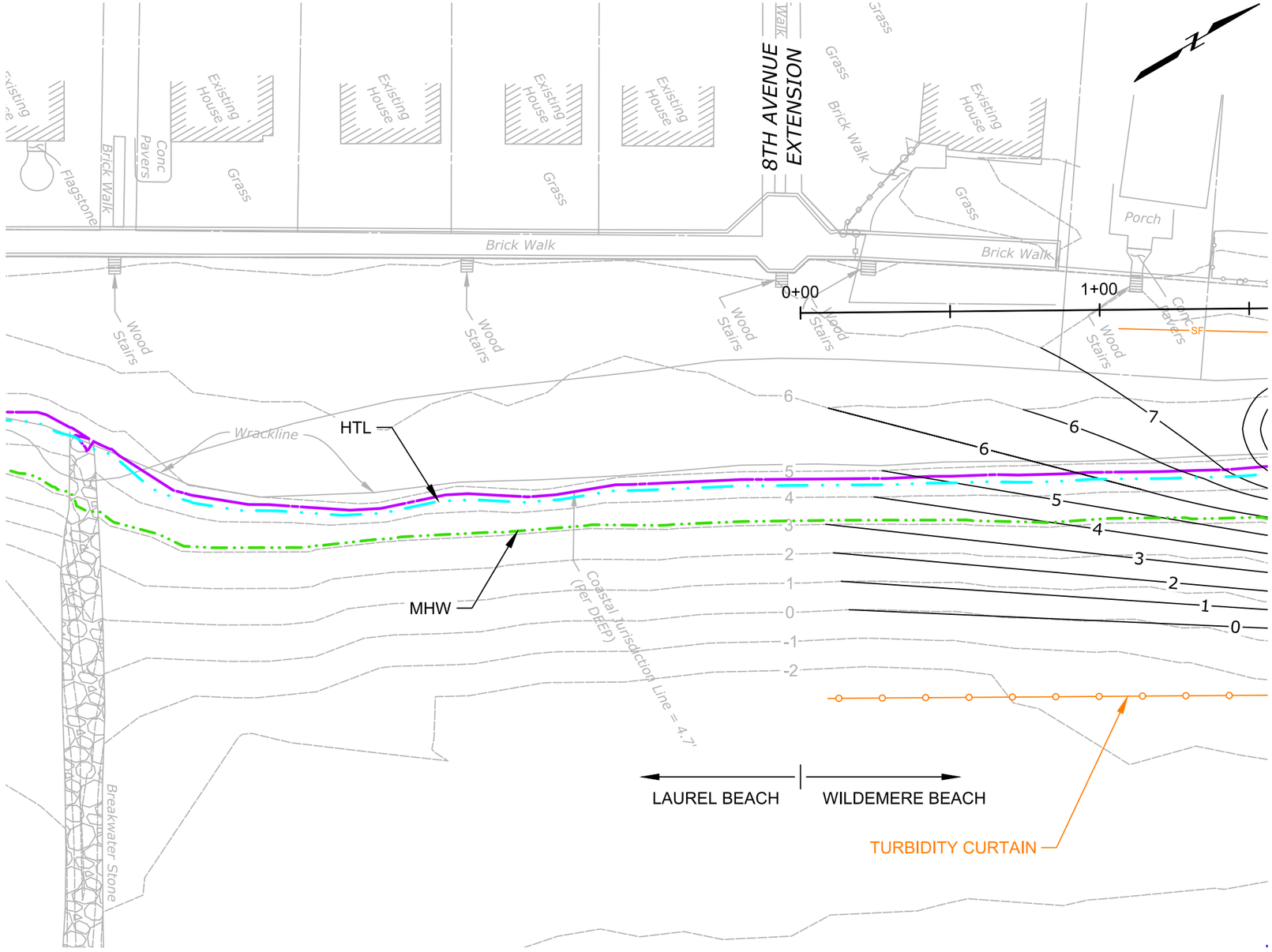
NOTE: THESE PLANS HAVE BEEN DEVELOPED SOLELY FOR THE PURPOSE OF PERMIT REVIEW AND CONTAIN A LEVEL OF DETAIL COMMENSURATE WITH PERMIT REVIEW REQUIREMENTS.

LEGEND:

- TURBIDITY CURTAIN
- SF — SEDIMENT FENCE
- MANHOLE
- COASTAL JURISDICTION LINE +4.7 (CJL)
- HIGH TIDE LINE +4.46 (HTL)
- MEAN HIGH WATER +3.15 (MHW)
- MEAN LOW WATER -3.60 (MLW)
- x — SAND FENCE
- WETLAND DELINEATION
- PROPERTY LINE

GENERAL NOTES:

1. THESE PLANS ARE INTENDED FOR PERMIT REVIEW AND APPROVAL PURPOSES ONLY. THEY ARE NOT TO BE USED FOR CONSTRUCTION UNTIL ALL FINAL DETAILS AND CONDITIONS OF PERMIT APPROVAL HAVE BEEN INCORPORATED, AND UNTIL THE PLANS ARE ACCOMPANIED BY A SUITABLE SET OF CONTRACT SPECIFICATIONS THAT FURTHER DEFINE THE WORK.
2. ALL UTILITY INFORMATION SHOWN ON THESE PLANS IS APPROXIMATE IN NATURE. UNDERGROUND UTILITIES MAY EXIST WHICH ARE NOT DEPICTED ON THESE PLANS, OR WHICH ARE NOT IN THE LOCATIONS SHOWN. THE CONTRACTOR ULTIMATELY SELECTED FOR THIS WORK SHALL PERFORM UTILITY IDENTIFICATION AND LOCATION PRIOR TO CONSTRUCTION USING CALL-BEFORE-U-DIG (CBUD) AND OTHER PRIVATE UTILITY IDENTIFICATION SERVICES TO ENSURE THAT ALL UTILITIES ARE LOCATED.
3. PROPERTY LINE INFORMATION SHOWN HAS BEEN OBTAINED FROM CITY OF MILFORD ASSESSOR RECORDS AND IS CONSIDERED RELEVANT FOR THESE PERMIT LEVEL DRAWINGS.
4. BASE SURVEY PREPARED BY MILONE & MACBROOM, INC. TO T-2 TOPOGRAPHIC STANDARDS, AND A-2 STANDARDS FOR HORIZONTAL LOCATIONS.
5. VERTICAL DATUM ON THESE PLANS IS NAVD88.



0 40 80

SCALE: 1" = 40'

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STATE OF CONNECTICUT — JOHN H. McGRATH — No. 13678 — LICENSED PROFESSIONAL ENGINEER

Designed:	JM
Checked:	BG
Drawn:	DE
Approved By:	JM

Walnut & Wildemere Beach Stabilization Project
Milford, Connecticut

City of Milford
Milford, Connecticut

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Project 1700458

DUNE AND BEACH NOURISHMENT PLAN

December 2017 Fig. 1

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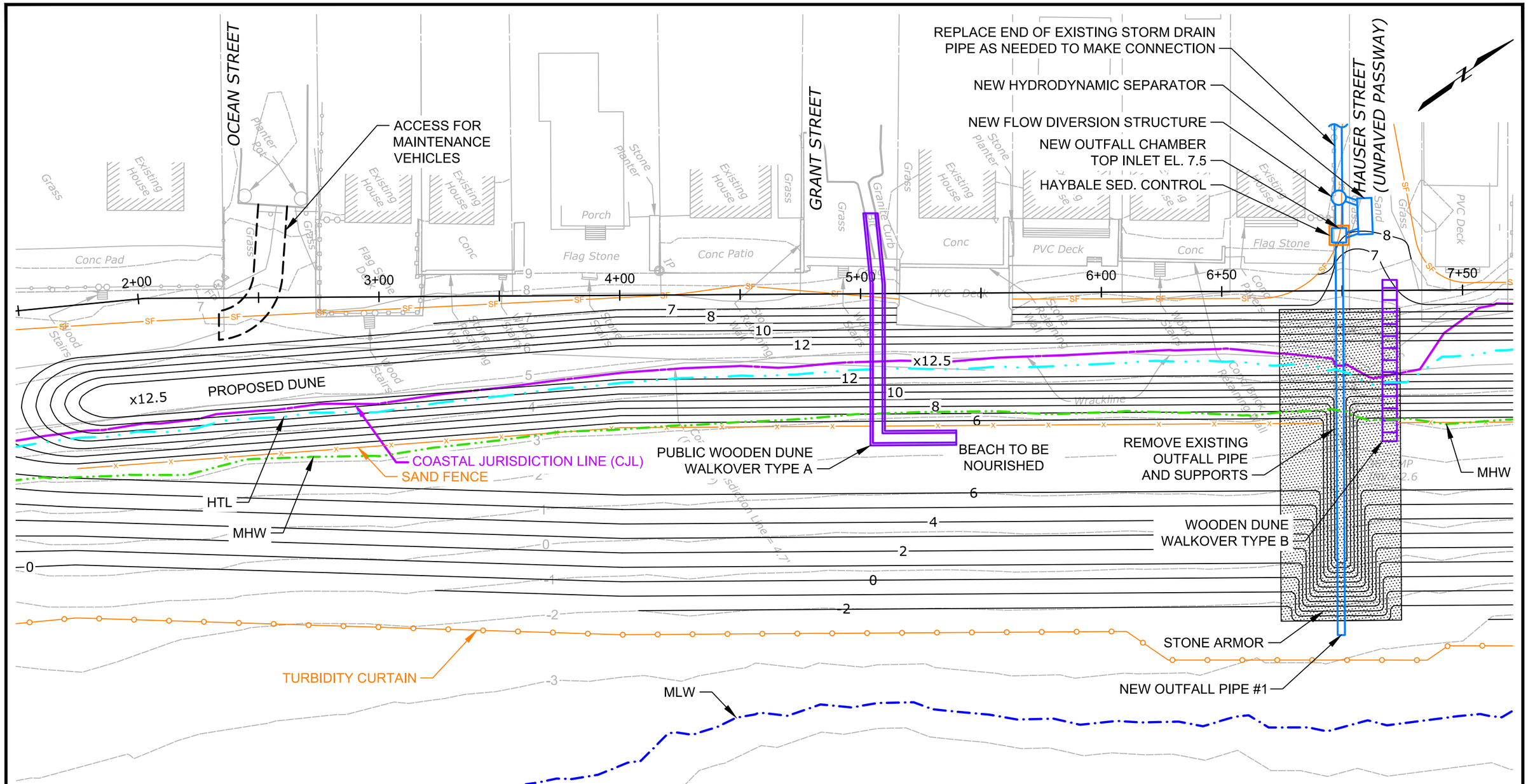

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Walnut & Wildemere Beach Stabilization Project
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Project 1700458

DUNE AND BEACH NOURISHMENT PLAN

December 2017 Fig. 2

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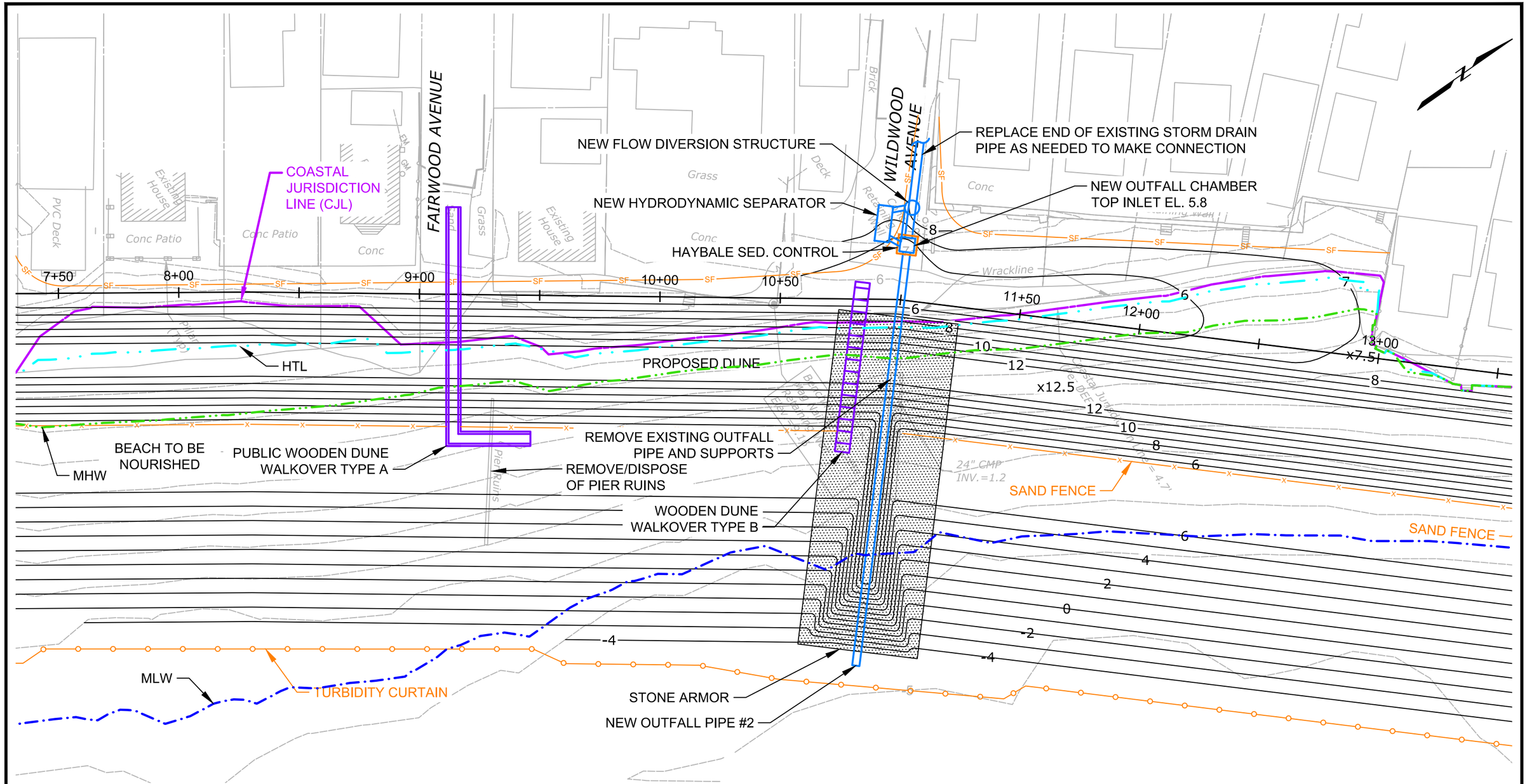

0 40 80

SCALE: 1" = 40'

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Walnut & Wildemere Beach Stabilization Project
Milford, Connecticut

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DUNE AND BEACH NOURISHMENT PLAN

December 2017 Fig. 3

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COASTAL JURISDICTION LINE (CJL)

BOTSFORD AVENUE
(UNPAVED PASSAGEWAY)

BITTERSWEET AVENUE

REPLACE END OF EXISTING STORM DRAIN PIPE AS NEEDED TO MAKE CONNECTION

NEW FLOW DIVERSION STRUCTURE

REMOVE AND RECONSTRUCT FENCE AND RETAINING WALL AS REQUIRED

NEW HYDRODYNAMIC SEPARATOR

REMOVE WALL

NEW SEAWALL

NEW OUTFALL CHAMBER TOP INLET EL. 6.5

HAYBALE SED. CONTROL

HTL

MHW

MLW

PROPOSED DUNE

SAND FENCE

BEACH TO BE NOURISHED

WOODEN DUNE WALKOVER TYPE B

REMOVE EXISTING OUTFALL PIPE AND SUPPORTS

WOODEN DUNE WALKOVER TYPE B

TURBIDITY CURTAIN

STONE ARMOR

NEW OUTFALL PIPE #3

13+00 14+00 15+00 16+00 17+00 18+00

0 40 80

SCALE: 1" = 40'

LONG

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Approved By:	JM

Walnut & Wildemere Beach Stabilization Project
Milford, Connecticut

City of Milford
Milford, Connecticut

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Project 1700458

DUNE AND BEACH NOURISHMENT PLAN

December 2017 Fig. 4

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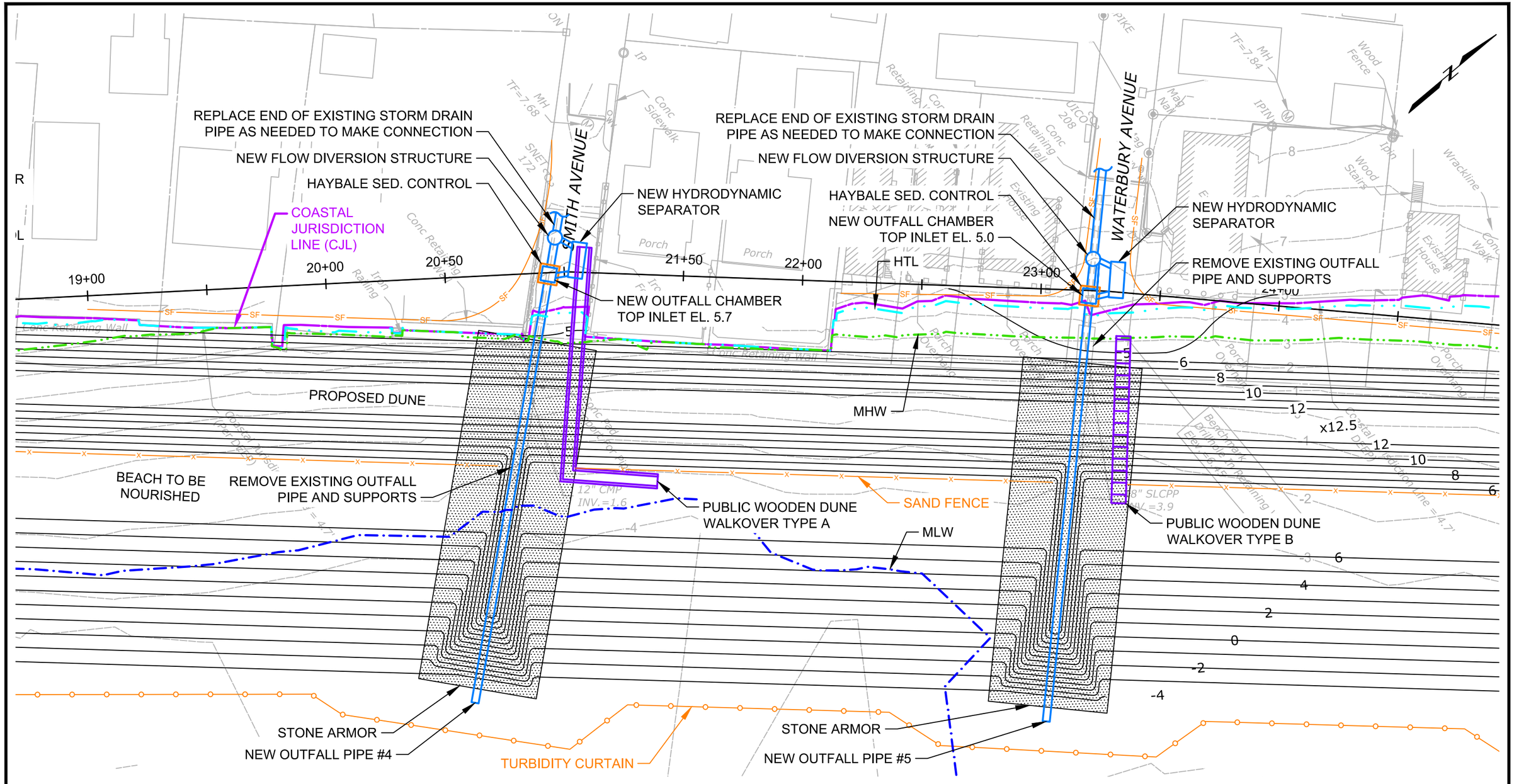

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JOHN H. McGRANE No. 13678 REGISTERED PROFESSIONAL ENGINEER STATE OF CONNECTICUT

Designed:	JM
Checked:	BG
Drawn:	DE
Approved By:	JM

Walnut & Wildemere Beach Stabilization Project
Milford, Connecticut

City of Milford
Milford, Connecticut

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DUNE AND BEACH NOURISHMENT PLAN

Project 1700458 | December 2017 | Fig. 5

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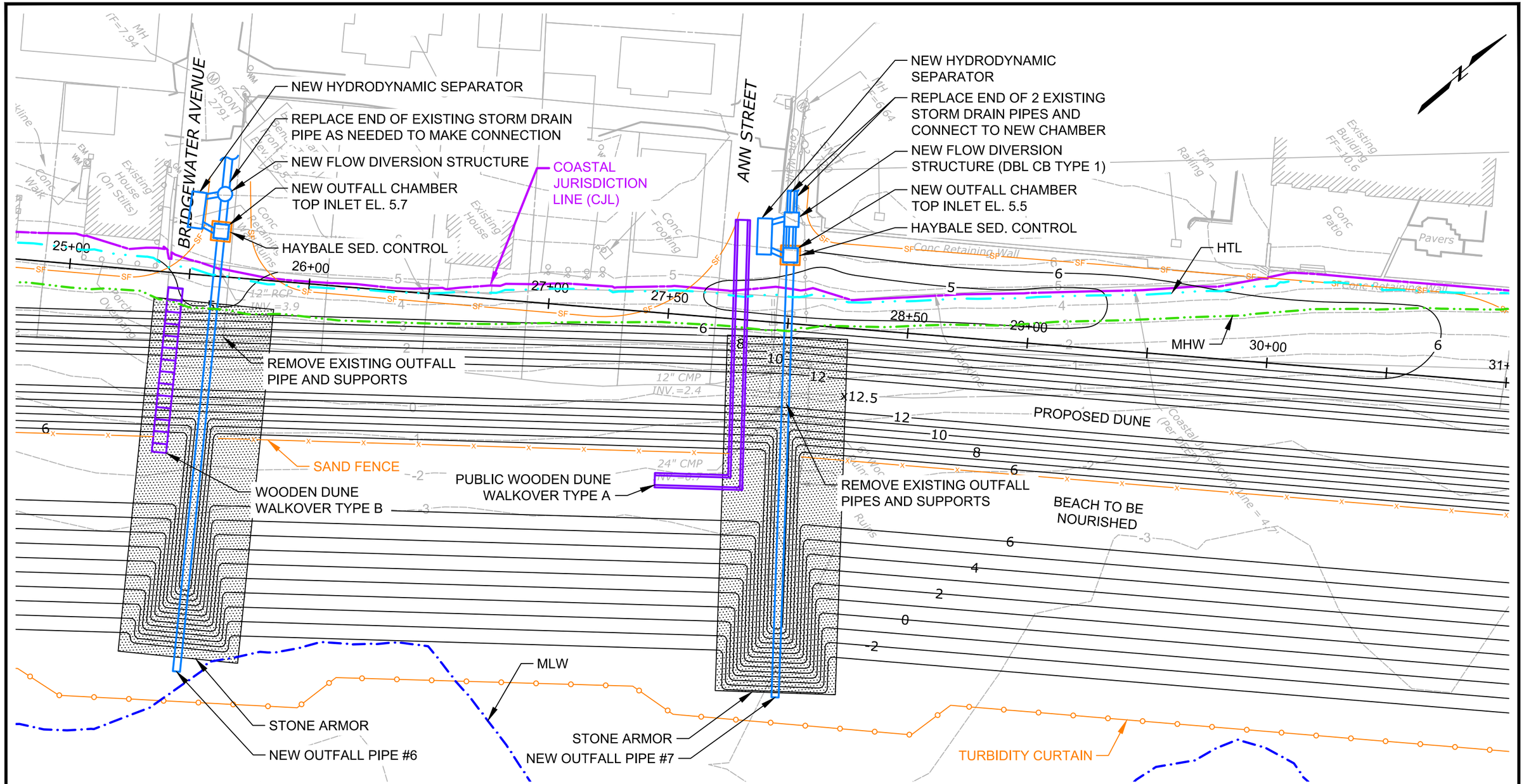

0 40 80

SCALE: 1" = 40'

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JOHN H. McCRANE — No. 17578 — LICENSED PROFESSIONAL ENGINEER — STATE OF CONNECTICUT

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Walnut & Wildemere Beach Stabilization Project
Milford, Connecticut

City of Milford
Milford, Connecticut

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DUNE AND BEACH NOURISHMENT PLAN

Project 1700458 | December 2017 | Fig. 6

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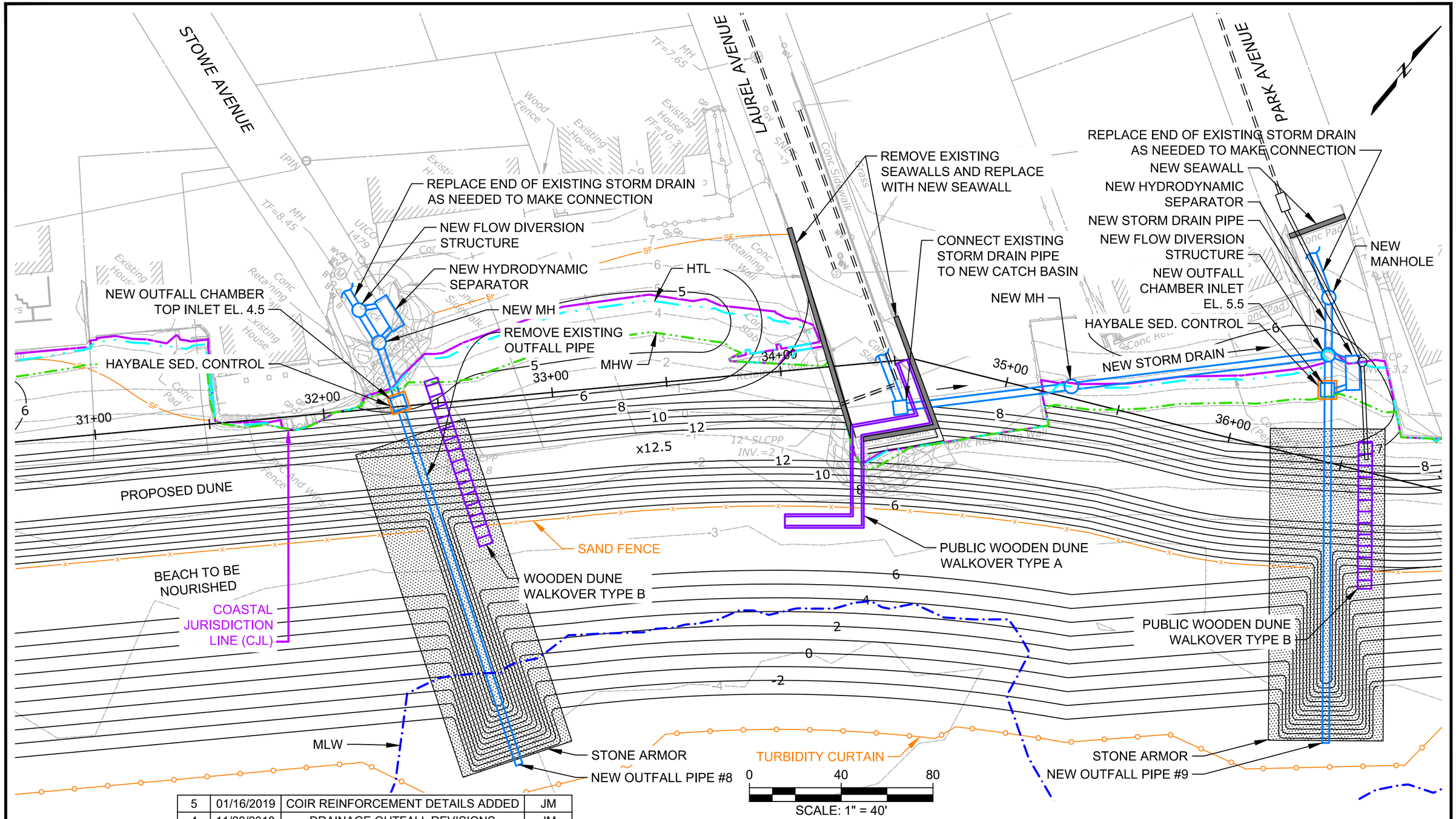

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Walnut & Wildemere Beach Stabilization Project
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DUNE AND BEACH NOURISHMENT PLAN

Project 1700458 | December 2017 | Fig. 7

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REPLACE END OF EXISTING STORM DRAIN PIPE

HAYBALE SED. CONTROL

NEW FLOW DIVERSION STRUCTURE

NEW HYDRODYNAMIC SEPARATOR

NEW OUTFALL CHAMBER
TOP INLET EL. 8.5

HOLE

TUCK AVENUE

PROPOSED DUNE

SAND FENCE

BEACH TO BE NOURISHED

COASTAL JURISDICTION LINE (CJL)

HTL

MHW

MLW

PUBLIC WOODEN DUNE WALKOVER TYPE A

REMOVE EXISTING OUTFALL PIPE AND SUPPORTS

STONE ARMOR

NEW OUTFALL PIPE #10

TURBIDITY CURTAIN

Existing Building

Grass

Wood Fence (Dumpster Area)

Vinyl Picket Fence

Dune

Existing House FF=11.4

Railing

Conc Deck

Railing

Conc Retaining Wall

Coastal Jurisdiction Line = 4.7'
(Per DEEP)

0 40 80

SCALE: 1" = 40'

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STATE OF CONNECTICUT JOHN H. McGRANE No. 17578 LICENSED PROFESSIONAL ENGINEER

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Drawn: DE
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Walnut & Wildemere Beach Stabilization Project
Milford, Connecticut

City of Milford
Milford, Connecticut

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DUNE AND BEACH NOURISHMENT PLAN

Project 1700458 | December 2017 | Fig. 8

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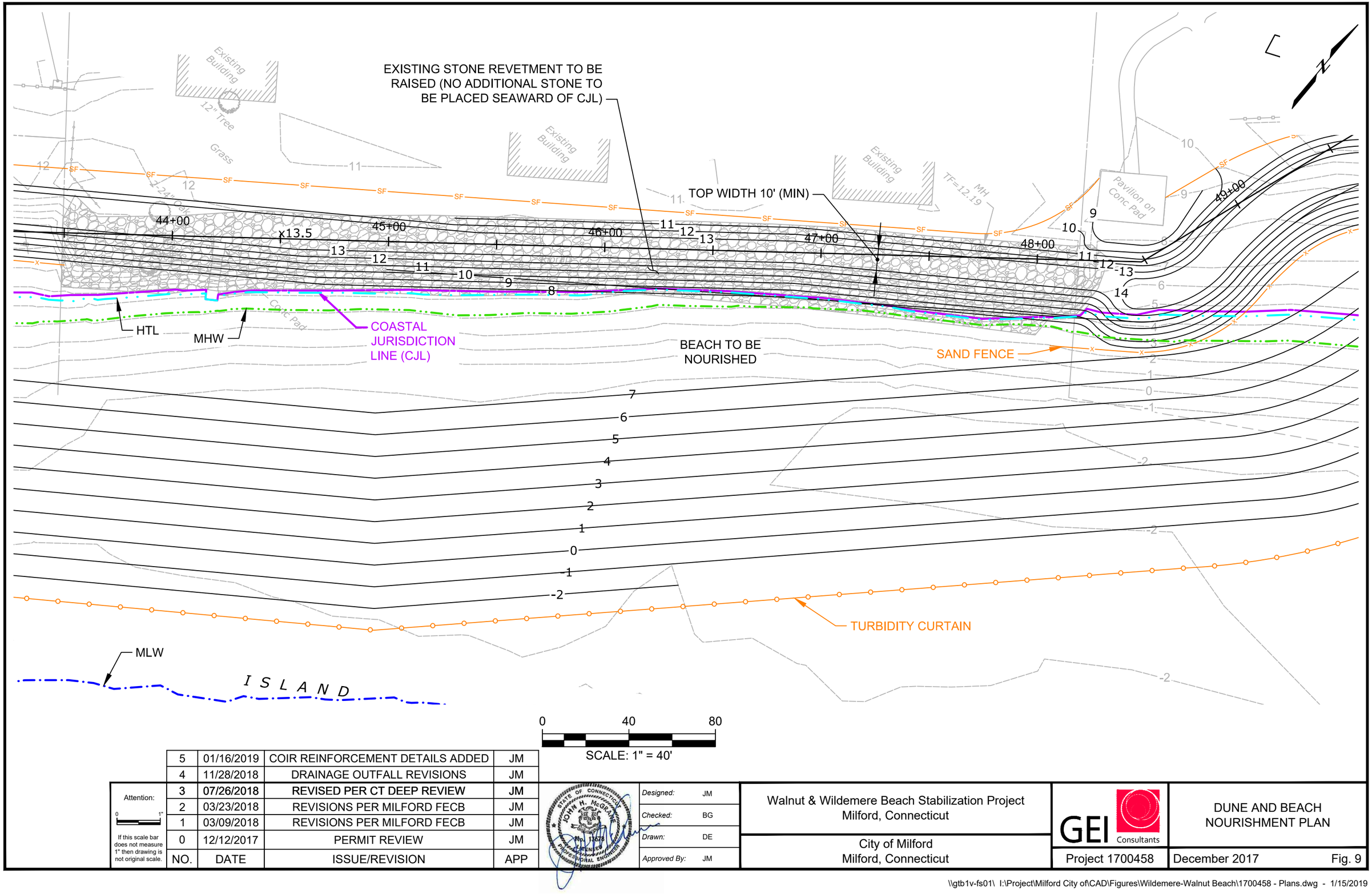

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STATE OF CONNECTICUT — JOHN H. McGRANE — No. 13579 — LICENSED PROFESSIONAL ENGINEER

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Drawn:	DE
Approved By:	JM

Walnut & Wildemere Beach Stabilization Project
Milford, Connecticut

City of Milford
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DUNE AND BEACH NOURISHMENT PLAN

Project 1700458 | December 2017 | Fig. 9

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EXISTING PARKING LOT

EXISTING CONC. WALKWAY

50+00

51+00

52+00

53+00

54+00

55+00

PROPOSED DUNE

NEW STORM DRAIN

RECONSTRUCT
WALKWAY OVER DUNE

SAND FENCE

RECONSTRUCT EXISTING PUBLIC
WOODEN DUNE WALKOVERS (3) IN KIND
AFTER DUNE CONSTRUCTION

HTL

MHW

COASTAL
JURISDICTION
LINE (CJL)

TURBIDITY CURTAIN

Bench On
Conc Pad
(Typ)

Conc Pad

Coastal Jurisdiction Line = 4.7'
(Per DEEP)

N59°44'16"E - 572.77'

N40°44'52"W
258.34'

NEW STORM DRAIN

0 40 80

SCALE: 1" = 40'

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STATE OF CONNECTICUT
JOHN H. McGRANE
No. 17578
REGISTERED
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Walnut & Wildemere Beach Stabilization Project
Milford, Connecticut

City of Milford
Milford, Connecticut

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Project 1700458

DUNE AND BEACH
NOURISHMENT PLAN

December 2017 Fig. 10

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STA 0+00 TO 57+00
DUNE AND BEACH NOURISHMENT TO BE PERFORMED UNDER STATE AND FEDERAL PERMITTING

STA 57+00 TO 68+50
DUNE CONSTRUCTION TO BE PERFORMED PRIOR TO STATE/FEDERAL PERMITTED PHASE UNDER CITY OF MILFORD PERMITTING ONLY

EXIST 36" RCP

RECONSTRUCT ROADWAY OVER NEW DUNE

N/F CITY OF MILFORD

NEW MANHOLE

NEW STORM DRAIN

NEW MANHOLE

SEWER EASEMENT

57+00

58+00

59+00

PAVED PARKING AREA

60+00

61+00

NEW STORM DRAIN

NEW INLET STRUCTURE

SILVER SANDS - WALNUT BEACH BOARDWALK

SAND FENCE

EXIST. CONC. SIDEWALK TO BE RECONSTRUCTED OVER DUNE

NEW FLOW DIVERSION STRUCTURE

NEW HYDRODYNAMIC SEPARATOR

NEW MH

MATCHLINE FIG. 12

NEW STORM DRAIN

30' STORM SEWER EASEMENT

NEW STORM MANHOLE T.F. 7.96

ALBERT MUNROE PIER

DUNE TO BE CONSTRUCTED UNDER CITY OF MILFORD PERMITS ONLY (NOT SHOWN)

COASTAL JURISDICTION LINE (CJL)

HTL

Conc Sidewalk

Grass

Wood Bridge

Conc Pad

Volleyball Net

0 40 80

SCALE: 1" = 40'

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Walnut & Wildemere Beach Stabilization Project
Milford, Connecticut

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DUNE AND BEACH NOURISHMENT PLAN

December 2017 Fig. 11

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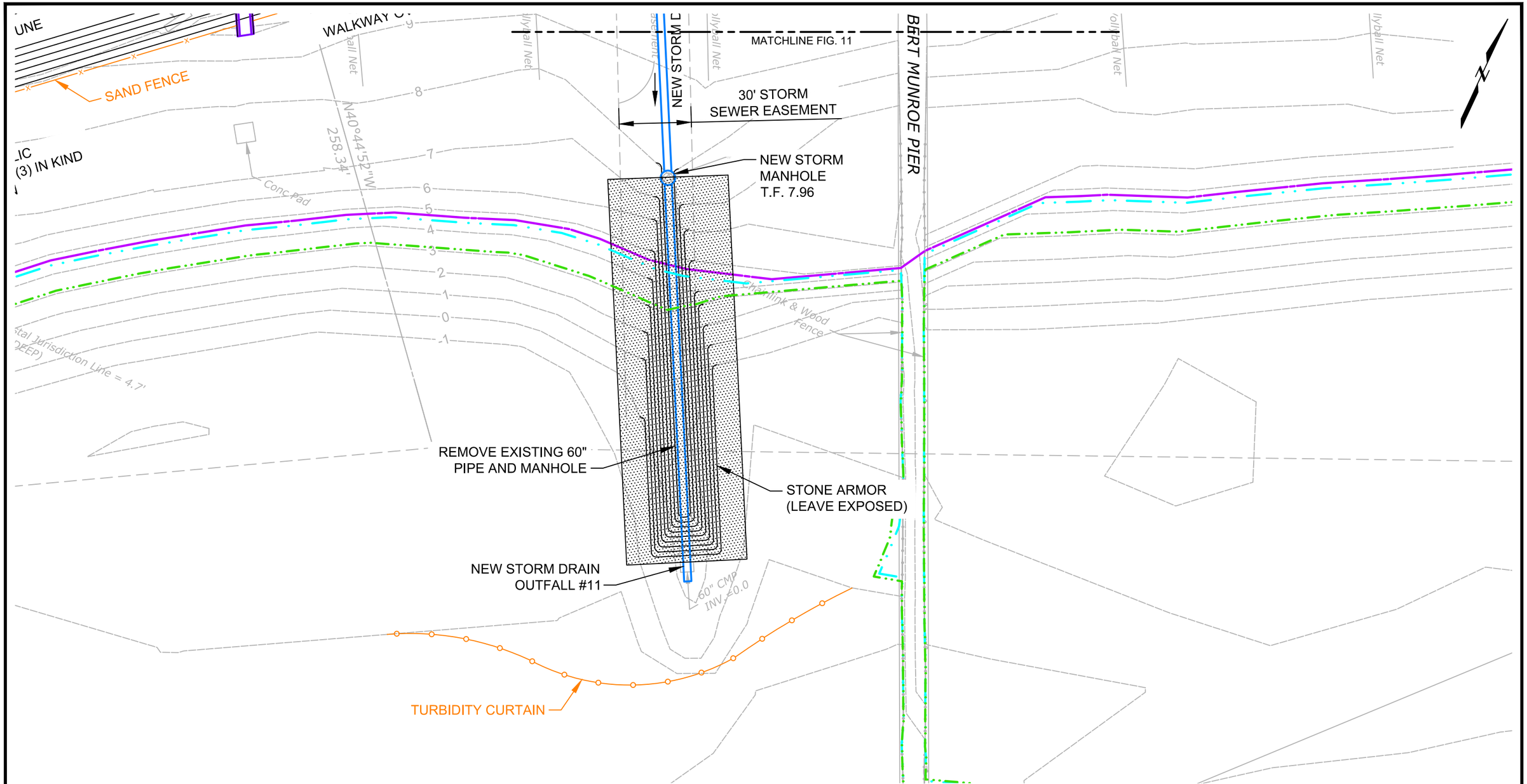

0 40 80

SCALE: 1" = 40'

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Walnut & Wildemere Beach Stabilization Project
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DUNE AND BEACH
NOURISHMENT PLAN

Project 1700458 | December 2017 | Fig. 12

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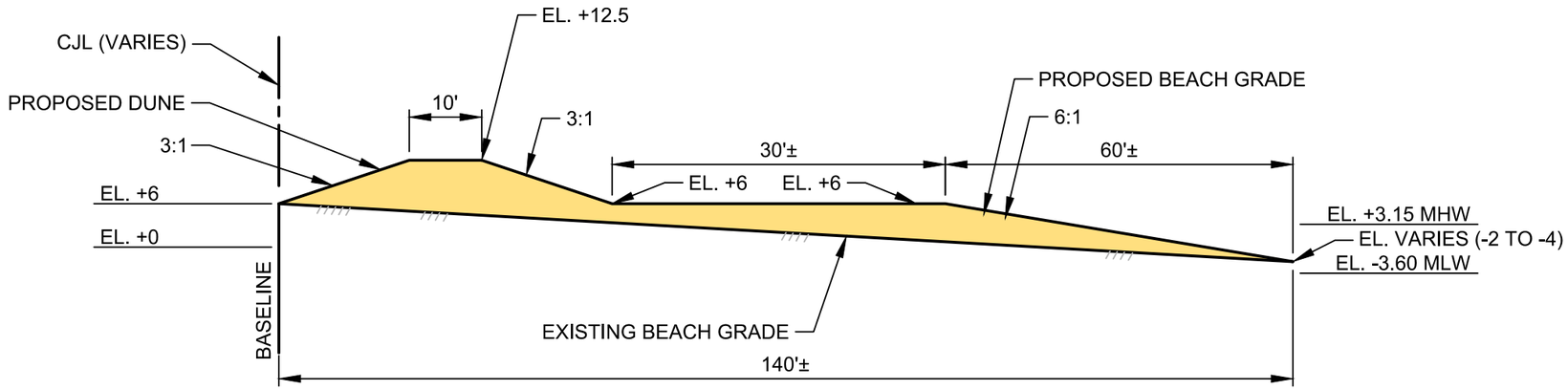


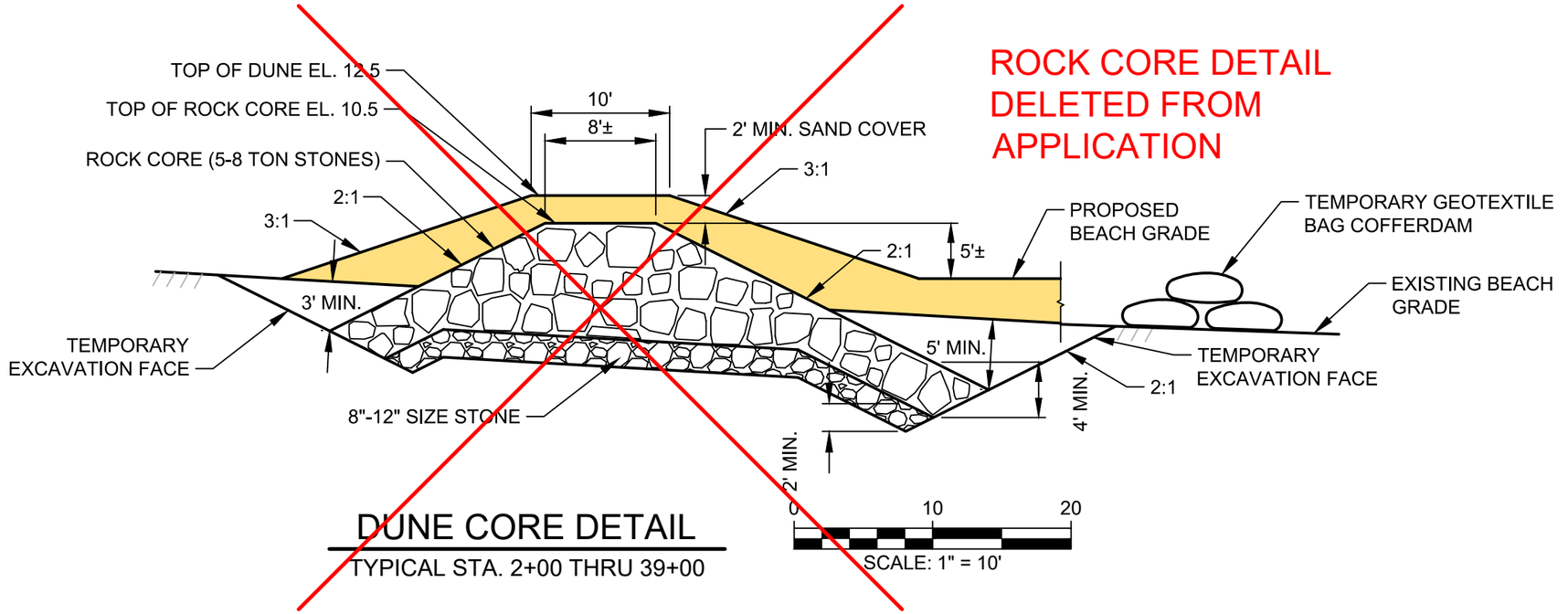
DUNE & BEACH NOURISHMENT SECTION

TYPICAL STA. 2+00 THRU 39+00

0 20 40

SCALE: 1" = 20'

ROCK CORE DETAIL DELETED FROM APPLICATION



DUNE CORE DETAIL

TYPICAL STA. 2+00 THRU 39+00

0 10 20

SCALE: 1" = 10'

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Project 1700458

WILDEMERE BEACH DUNE & BEACH NOURISHMENT TYPICAL SECTIONS

December 2017 Fig. 13

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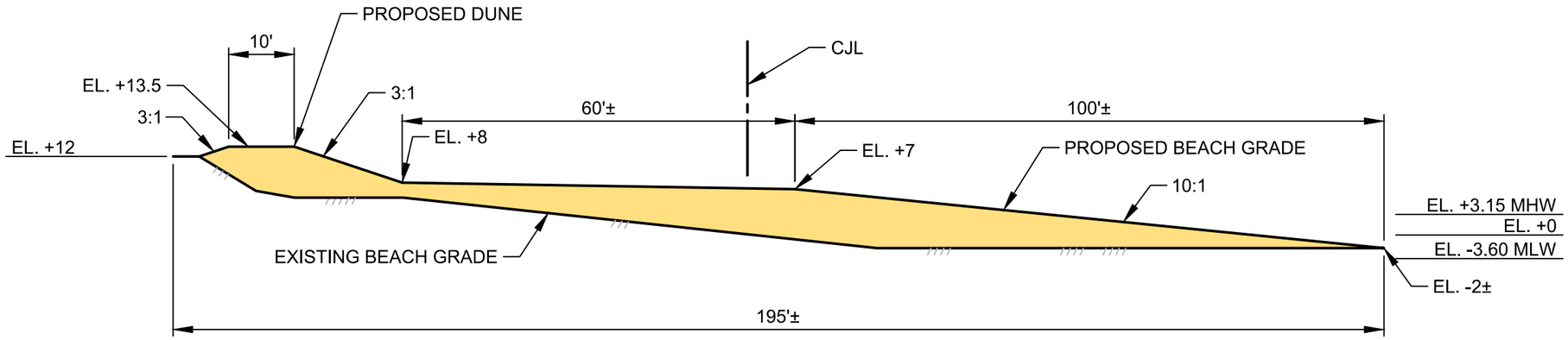
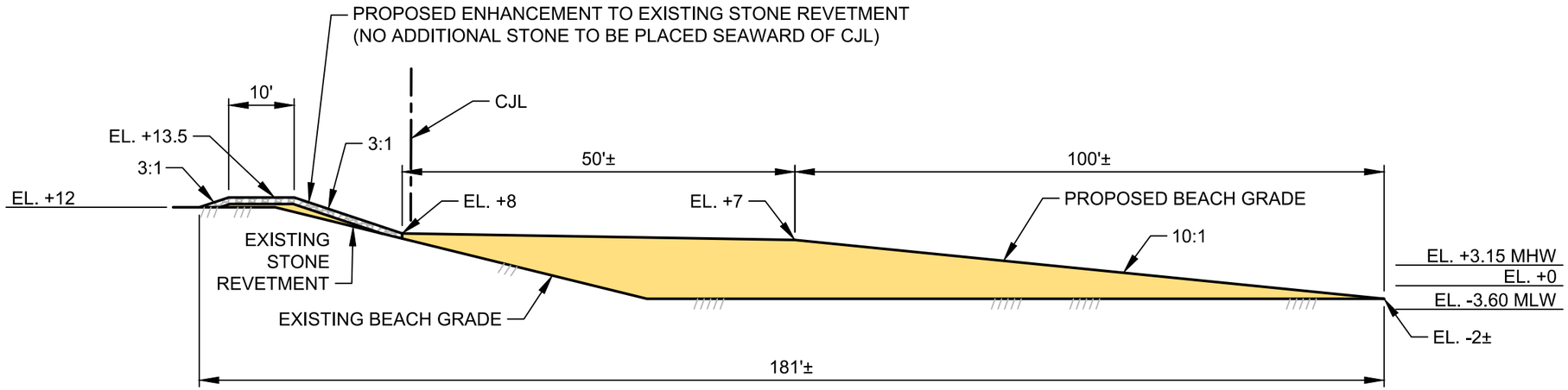


DUNE & BEACH NOURISHMENT SECTION

STA. 41+50



DUNE & BEACH NOURISHMENT SECTION

STA. 45+00

0 20 40

SCALE: 1" = 20'

NO.	DATE	ISSUE/REVISION	APP
5	01/16/2019	COIR REINFORCEMENT DETAILS ADDED	JM
4	11/28/2018	DRAINAGE OUTFALL REVISIONS	JM
3	07/26/2018	REVISED PER CT DEEP REVIEW	JM
2	03/23/2018	REVISIONS PER MILFORD FECB	JM
1	03/09/2018	REVISIONS PER MILFORD FECB	JM
0	12/12/2017	PERMIT REVIEW	JM

Attention:

0 1"

If this scale bar does not measure 1" then drawing is not original scale.

STATE OF CONNECTICUT JOHN H. McCRANE No. 11578 LICENSED PROFESSIONAL ENGINEER

Designed:	JM
Checked:	BG
Drawn:	DE
Approved By:	JM

Walnut & Wildemere Beach Stabilization Project
Milford, Connecticut

City of Milford
Milford, Connecticut

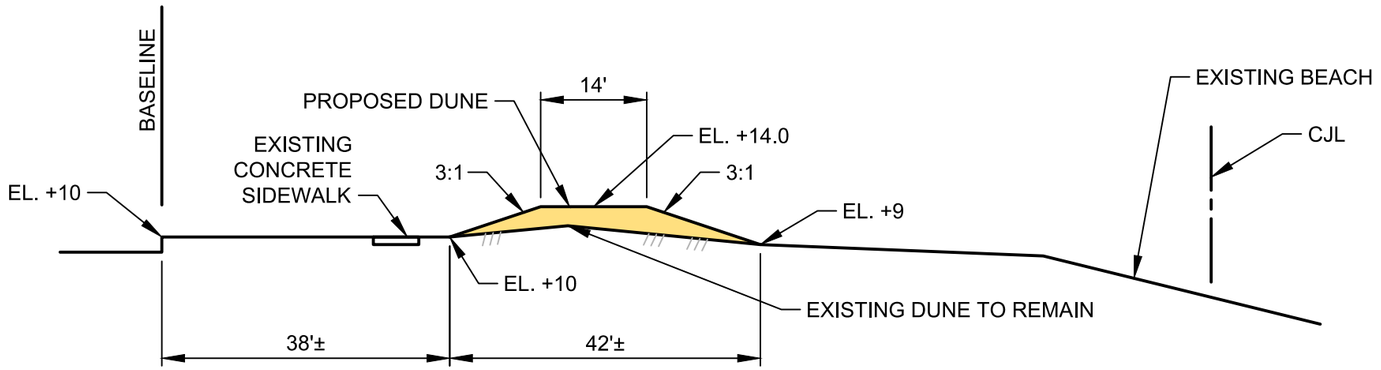
GEI Consultants

Project 1700458

WILDEMERE BEACH DUNE & BEACH NOURISHMENT TYPICAL SECTIONS

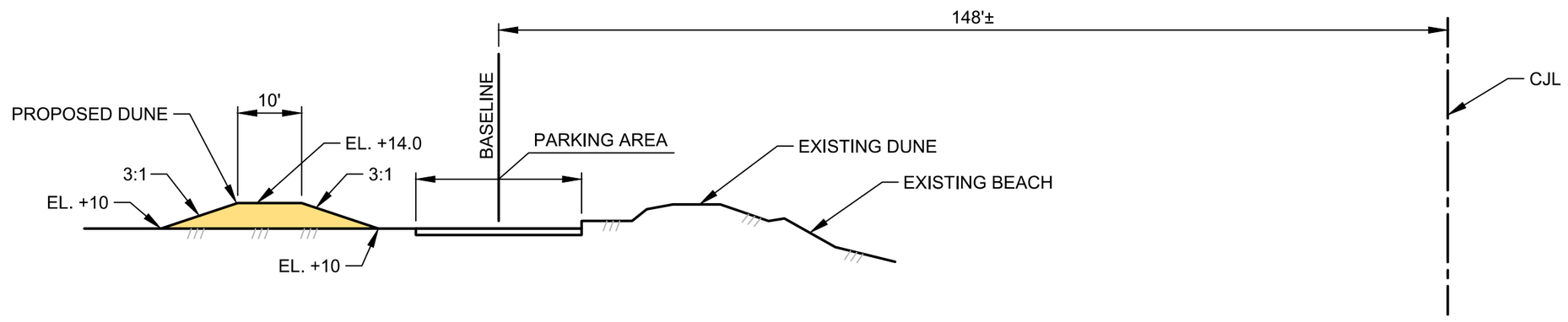
December 2017 Fig. 14

---- I:\Project\Milford City of\CAD\Figures\Wildemere-Walnut Beach\1700458 - XSC.dwg - 1/15/2019



DUNE & BEACH NOURISHMENT SECTION

STA. 51+00



DUNE & BEACH NOURISHMENT SECTION
(CITY OF MILFORD PERMITTED SECTION - INFORMATION ONLY)

STA. 59+50

0 20 40

SCALE: 1" = 20'

NO.	DATE	ISSUE/REVISION	APP
5	01/16/2019	COIR REINFORCEMENT DETAILS ADDED	JM
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1	03/09/2018	REVISIONS PER MILFORD FECB	JM
0	12/12/2017	PERMIT REVIEW	JM

Attention:

0 1"

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Approved By:	JM

Walnut & Wildemere Beach Stabilization Project
Milford, Connecticut

City of Milford
Milford, Connecticut

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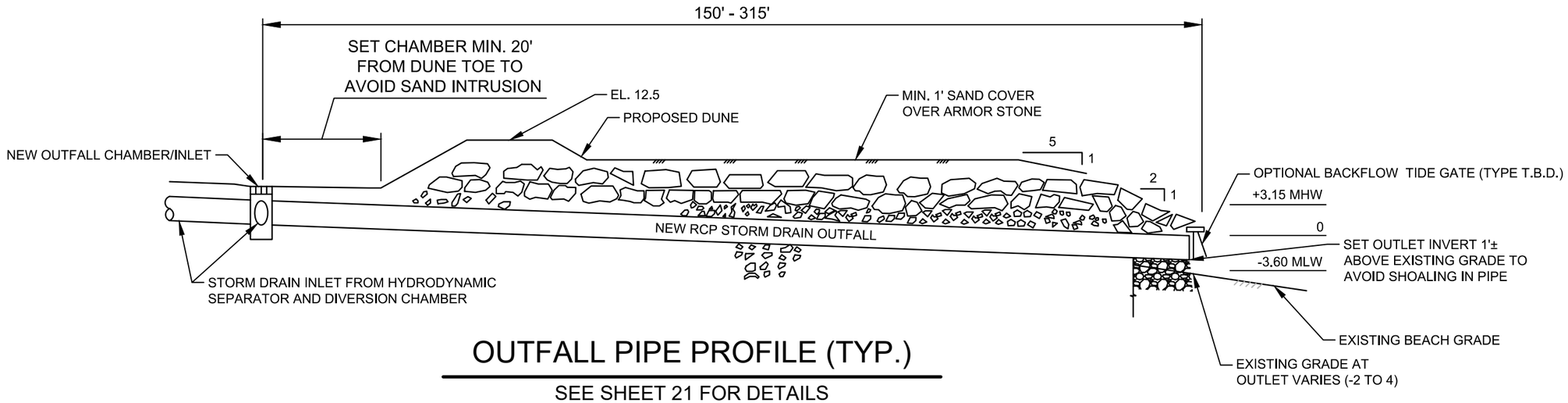
Project 1700458

WILDEMERE BEACH DUNE & BEACH NOURISHMENT TYPICAL SECTIONS

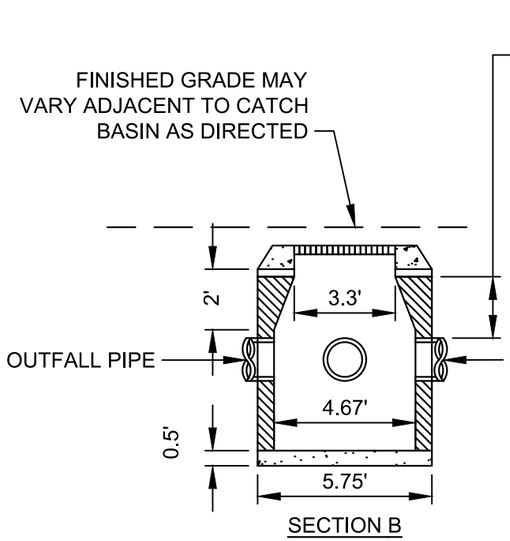
December 2017 Fig. 15

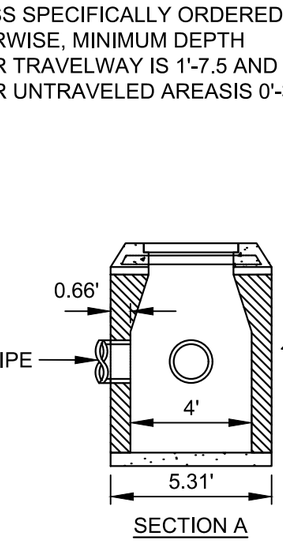
---- I:\Project\Milford City of\CAD\Figures\Wildemere-Walnut Beach\1700458 - XSC.dwg - 1/15/2019

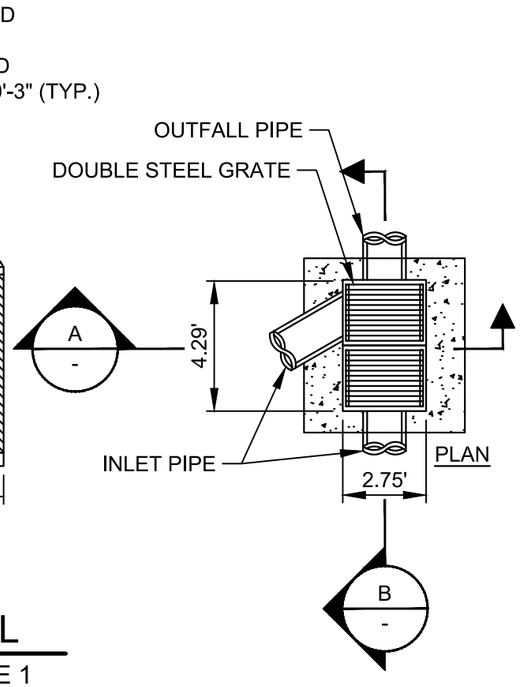


OUTFALL PIPE PROFILE (TYP.)

SEE SHEET 21 FOR DETAILS

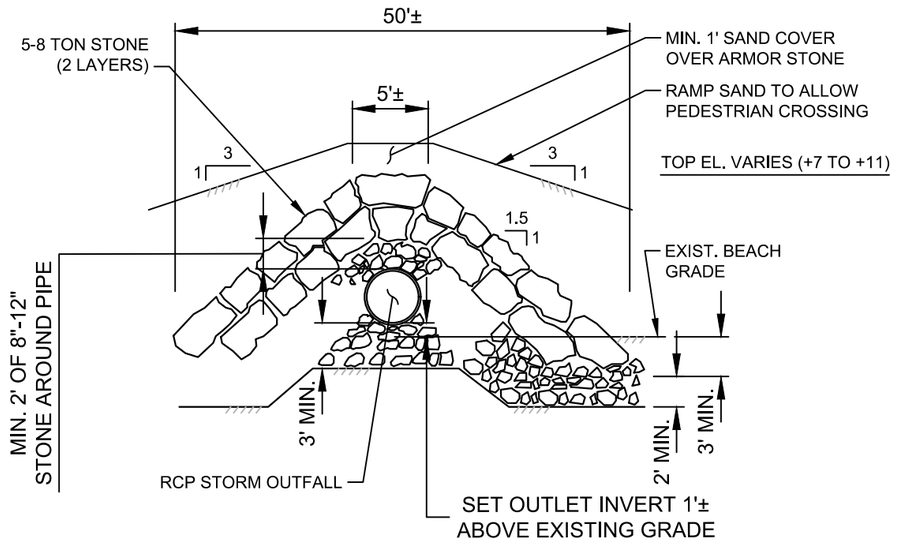






OUTFALL CHAMBER/INLET DETAIL

DOT TYPE C-L CATCH BASIN DOUBLE GRATE, TYPE 1



OUTFALL PIPE CROSS SECTION (TYP.)

SEE SHEET 21 FOR DETAILS

NO.	DATE	ISSUE/REVISION	APP
5	01/16/2019	COIR REINFORCEMENT DETAILS ADDED	JM
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0	12/12/2017	PERMIT REVIEW	JM

Attention:

0 1"

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STATE OF CONNECTICUT
JOHN H. McGRANE
No. 13678
LICENSED PROFESSIONAL ENGINEER

Designed:	JM
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Drawn:	DE
Approved By:	JM

Walnut & Wildemere Beach Stabilization Project
Milford, Connecticut

City of Milford
Milford, Connecticut

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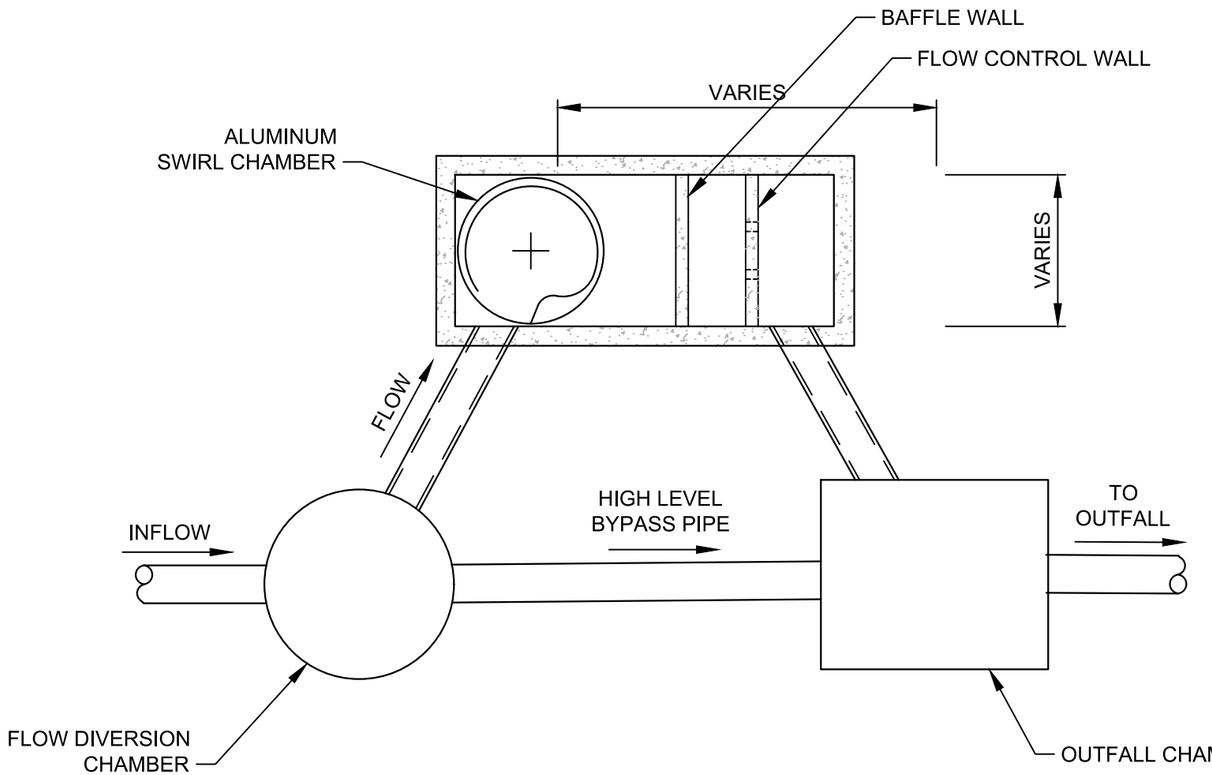
STORM DRAIN
OUTFALL DETAILS

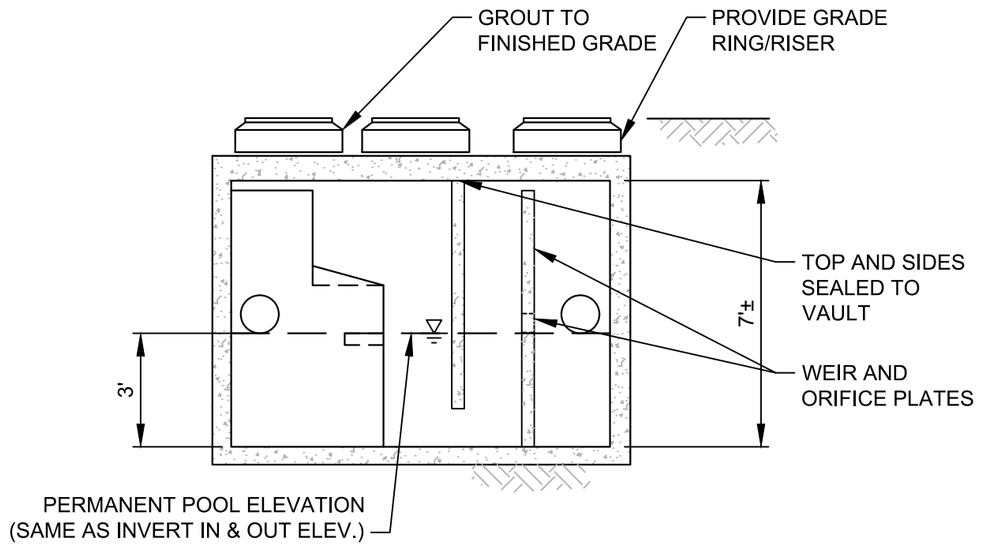
Project 1700458 | December 2017 | Fig. 16

---- I:\Project\Milford City of\CAD\Figures\Wildemere-Walnut Beach\1700458 - DETL.dwg - 1/15/2019



PLAN VIEW

VORTECHS OR EQUAL



SECTION VIEW

VORTECHS OR EQUAL

0 1/2 1

SCALE: 3" = 1'-0"

NO.	DATE	ISSUE/REVISION	APP
5	01/16/2019	COIR REINFORCEMENT DETAILS ADDED	JM
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JOHN H. McGRATH
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Approved By:	JM

Walnut & Wildemere Beach Stabilization Project
Milford, Connecticut

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HYDRODYNAMIC SEPARATOR, DIVERSION CHAMBER, AND OUTFALL DETAIL

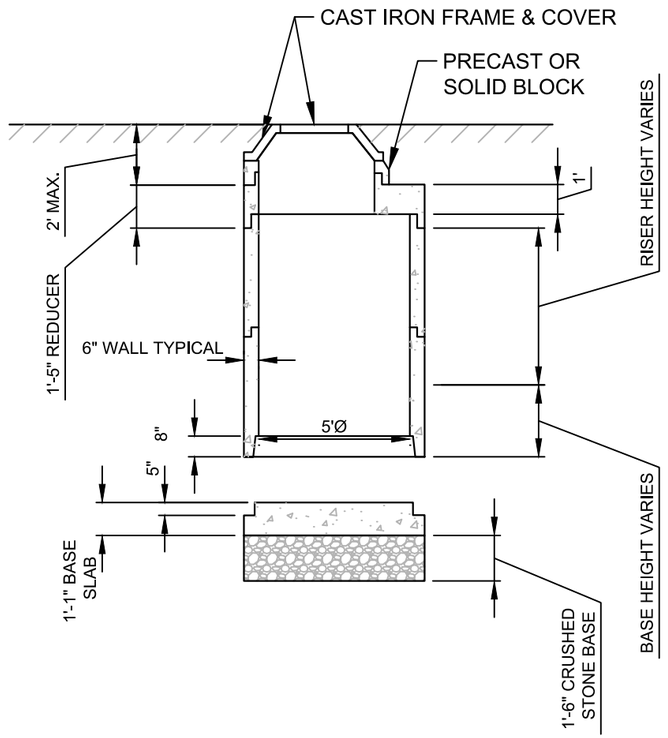
Project 1700458 | December 2017 | Fig. 17

---- I:\Project\Milford City of\CAD\Figures\Wildemere-Walnut Beach\1700458 - DETL.dwg - 1/15/2019

STORM DRAIN DATA TABLE							
Outfall Name	**Location**	**Existing Outfall Pipe Size**	**Proposed Outfall Pipe Size**	**Approx. Length**	**Proposed Outfall Invert EL***	**Proposed Pipe Material**	**Hydrodynamic Separator Site and Pipe Inverts**
Outfall #1	Hauser St.	36"	36" +/-	150'	-1.5	RCP	See Note 3
Outfall #2	Wildwood Ave.	24"	24" +/-	160'	-3.5	RCP	See Note 3
Outfall #3	Bittersweet Ave.	18"	36" +/-	165'	-4.0	RCP	See Note 3
Outfall #4	Smith Ave.	12"	24" +/-	170'	-3.5	RCP	See Note 3
Outfall #5	Waterbury Ave.	18"	24" +/-	165'	-3.0	RCP	See Note 3
Outfall #6	Bridgewater Ave.	12"	24" +/-	170'	-3.0	RCP	See Note 3
Outfall #7	Ann St.	24" + 12"	30" +/-	170'	-2.0	RCP	See Note 3
Outfall #8	Stowe Ave.	24"	24" +/-	180'	-3.0	RCP	See Note 3
Outfall #9	Park Ave.	15"	24" +/-	160'	-2.0	RCP	See Note 3
Outfall #10	Naugatuck Ave.	48"	48" +/-	200'	-1.5	RCP	See Note 3
Outfall #11	Viscount Dr.	36" x 58" Squash	48" +/-	315'	0.5	RCP	See Note 3

NOTES:

1. INVERT ELEVATIONS SET AT 1'± ABOVE SEA FLOOR.
2. EXISTING OUTFALL PIPES LESS THAN 24" DIAMETER HAVE BEEN UPGRADED TO 24" DIAMETER MINIMUM FOR CONTRACTIBILITY AND DURABILITY REASONS.
3. SPECIFIC SIZING FOR THE HYDRODYNAMIC SEPARATOR, AS WELL SIZING FOR INLET/OUTLET & BYPASS PIPING TO BE DETERMINED AS PART OF FINAL DESIGN DRAWINGS.



5' DIA. PRECAST CONCRETE MANHOLE DETAILS

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1	03/09/2018	REVISIONS PER MILFORD FECB	JM
0	12/12/2017	PERMIT REVIEW	JM

Attention:
0 1"
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STATE OF CONNECTICUT JOHN H. McGRANE No. 15678 LICENSED PROFESSIONAL ENGINEER

Designed:	JM
Checked:	BG
Drawn:	DE
Approved By:	JM

Walnut & Wildemere Beach Stabilization Project
Milford, Connecticut

City of Milford
Milford, Connecticut

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STORM DRAIN DATA TABLE AND OUTFALL DETAILS

Project 1700458 | December 2017 | Fig. 18

---- I:\Project\Milford City of\CAD\Figures\Wildemere-Walnut Beach\1700458 - DETL.dwg - 1/15/2019

DUNE PLANTING NOTES:

1. DORMANT BEACHGRASS STEMS SHALL BE HELD IN COLD STORAGE PRIOR TO DELIVERY TO SITE.
2. DELIVER PLANTS IMMEDIATELY PRIOR TO PLANTING ON SITE. STORE ALL PLANT MATERIALS, NOT INSTALLED IMMEDIATELY AFTER DELIVERY, OUT OF DIRECT
3. EXPOSURE TO SUN AND WIND. MAINTAIN MOISTNESS OF PLANT CONTAINERS OR ROOT BALLS BY PERIODICALLY COVERING WITH WET STRAW OR CLOTH UNTIL
4. TIME OF PLANTING.
5. DO NOT STACK PLANTS DURING TRANSPORT OR TEMPORARY STORAGE TO AVOID CRUSHING.
6. INSTALL SAND FENCE PRIOR TO PLANTING DUNE. INSTALL TWO (2) ROWS OF SAND FENCE PARALLEL TO THE SHORELINE, AS DEPICTED IN THE PLANS.
7. SPACE POSTS 10 FT. APART AND SET POSTS A MINIMUM OF 3 FOOT DEPTH. WEAVE SAND FENCING IN FRONT OF AND BEHIND ALTERNATING POSTS TO ATTAIN MAXIMUM STRENGTH, AND ATTACH FENCING TO EACH POST WITH FOUR (4) WIRE TIES (≥ 12 GA.).
8. STAKE OUT EDGES OF PLANTING ZONE AND CONTACT THE PROJECT ENGINEER OR LANDSCAPE ARCHITECT FOR INSPECTION PRIOR TO PLANT INSTALLATION.
9. PLANT HARVESTED DORMANT BEACHGRASS STEMS FROM OCTOBER 15th THROUGH APRIL 15TH; OR NURSERY-GROWN BEACHGRASS PLUGS FROM APRIL 15TH TO May 31st.
10. PLANT THE DUNE STARTING FROM THE SEAWARD SIDE (TOE OF THE DUNE) TOWARDS THE LANDWARD SIDE.
11. INSTALL TWO (2) DORMANT BEACHGRASS (AMMOPHILA BREVILIGULATA) STEMS/CULMS, OR ONE PLUG PER PLANTING HOLE, APPROXIMATELY 8"-1 O" DEEP, SPACED A MAXIMUN OF 12" ON-CENTER.
12. PLANT A MINIMUM OF TEN (10) PARALLEL ROWS, AND STAGGER/OFFSET THE PLANTS IN ALTERNATING ROWS TO MAXIMIZE PROTECTION.

SAND FENCING REQUIREMENTS:

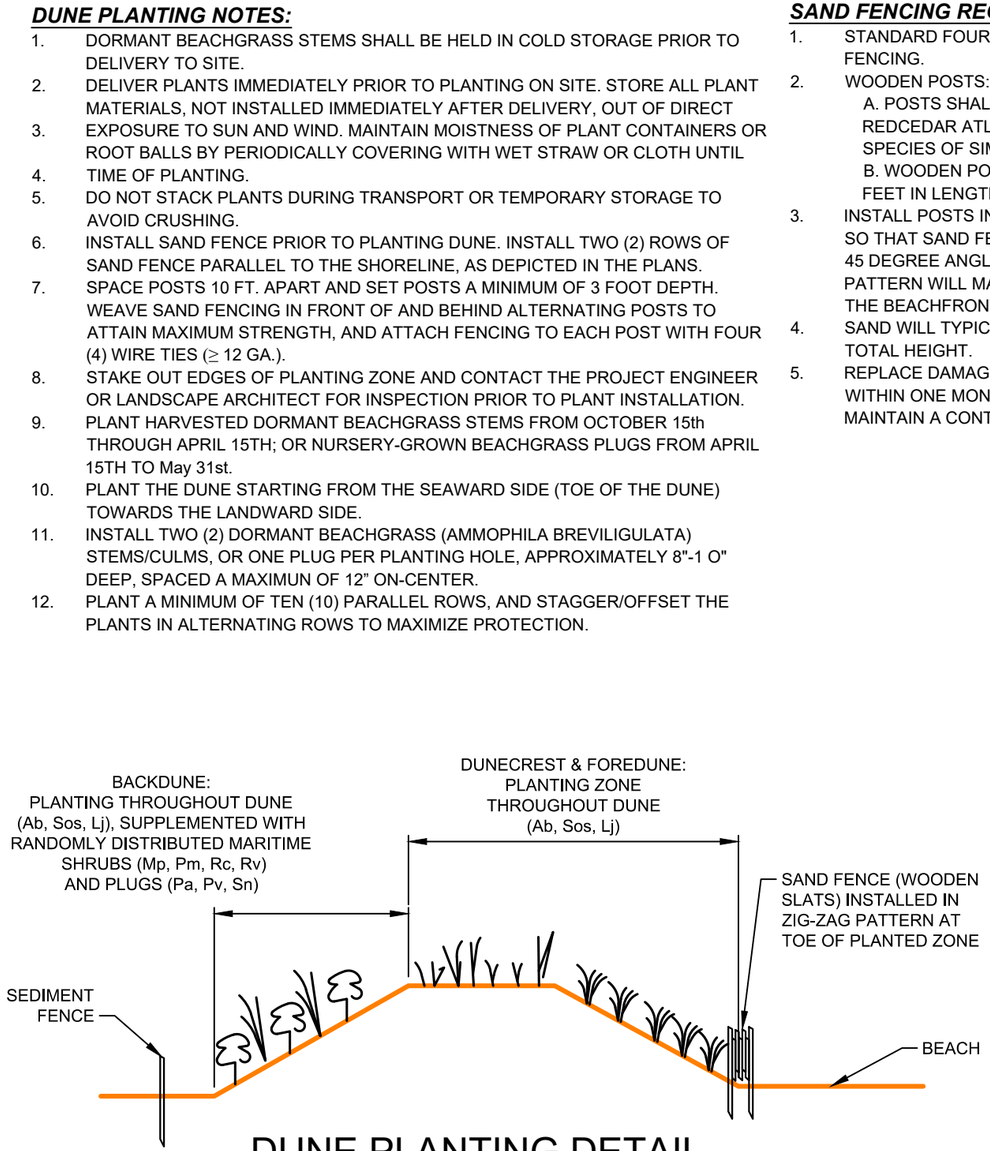
1. STANDARD FOUR (4) FOOT SLATTED WOOD SNOW FENCING.
2. WOODEN POSTS:
   A. POSTS SHALL BE BLACK LOCUST, EASTERN REDCEDAR ATLANTIC WHITE CEDAR OR OTHER SPECIES OF SIMILAR DURABILITY AND STRENGTH.
   B. WOODEN POSTS MUST BE GREATER THAN 6 1/2 FEET IN LENGTH (7 TO 8 FT. TYP.).
3. INSTALL POSTS IN A REPEATING ZIG-ZAG PATTERN SO THAT SAND FENCE SECTIONS ARE PLACED AT A 45 DEGREE ANGLE TO THE SHOREFRONT. THIS PATTERN WILL MAXIMIZE SAND ENTRAPMENT ALONG THE BEACHFRONT.
4. SAND WILL TYPICALLY FILL FENCING TO 3/4 OF ITS TOTAL HEIGHT.
5. REPLACE DAMAGED SAND FENCING AND POSTS WITHIN ONE MONTH OF STORM DAMAGE TO MAINTAIN A CONTINUOUS DUNE LINE.

DUNE PLANTING SCHEDULE

Abv.	Botanical Name	Common Name	Location	Size	Spacing	Qty.
Shrubs						
BhT	*Baccharis halimifolia*	Groundselbush	Vegetated rip-rap, Wildemere	2 yr. tubeling	2' O.C.	
IfT	*Iva frutescens*	Marsh Elder	Vegetated rip-rap, Wildemere	2 yr. tubeling	2' O.C.	
Mp	*Morella pensylvanica*	Northern Bayberry	Backdune & Planting Berm	1 Gal. Cont.	4' O.C.	
Pm	*Prunus maritima*	Beach Plum	Backdune & Planting Berm	2 Gal. Cont.	4' O.C.	
Rc	*Rosa carolina*	Carolina Rose	Backdune & Planting Berm	1 Gal. Cont.	2' O.C.	
Rv	*Rosa virginiana*	Virginia Rose	Backdune & Planting Berm	1 Gal. Cont.	2' O.C.	
Herbaceous Plugs						
Ab	*Ammophila breviligulata*	American Beachgrass	Foredune & backdune throughout	Dormant culm	1' O.C.	
Pa	*Panicum amarulum*	"Atlantic" Coastal Panicgrass	Backdune & Planting Berm	2" Plug	2' O.C.	
Pv	*Panicum virgatum*	Switchgrass	Backdune & Planting Berm	2" Plug	2' O.C.	
Sn	*Sorghastrum nutans*	Indiangrass	Backdune & Planting Berm	2" Plug	2' O.C.	
Sos	*Solidago sempervirens*	Seaside Goldenrod	Foredune & backdune throughout	2" Plug	2' O.C.	
Vines						
Lj	*Lathyrus japonicus var. maritimus*	Beach Pea	Foredune & backdune throughout	2" Plug	2' O.C.	

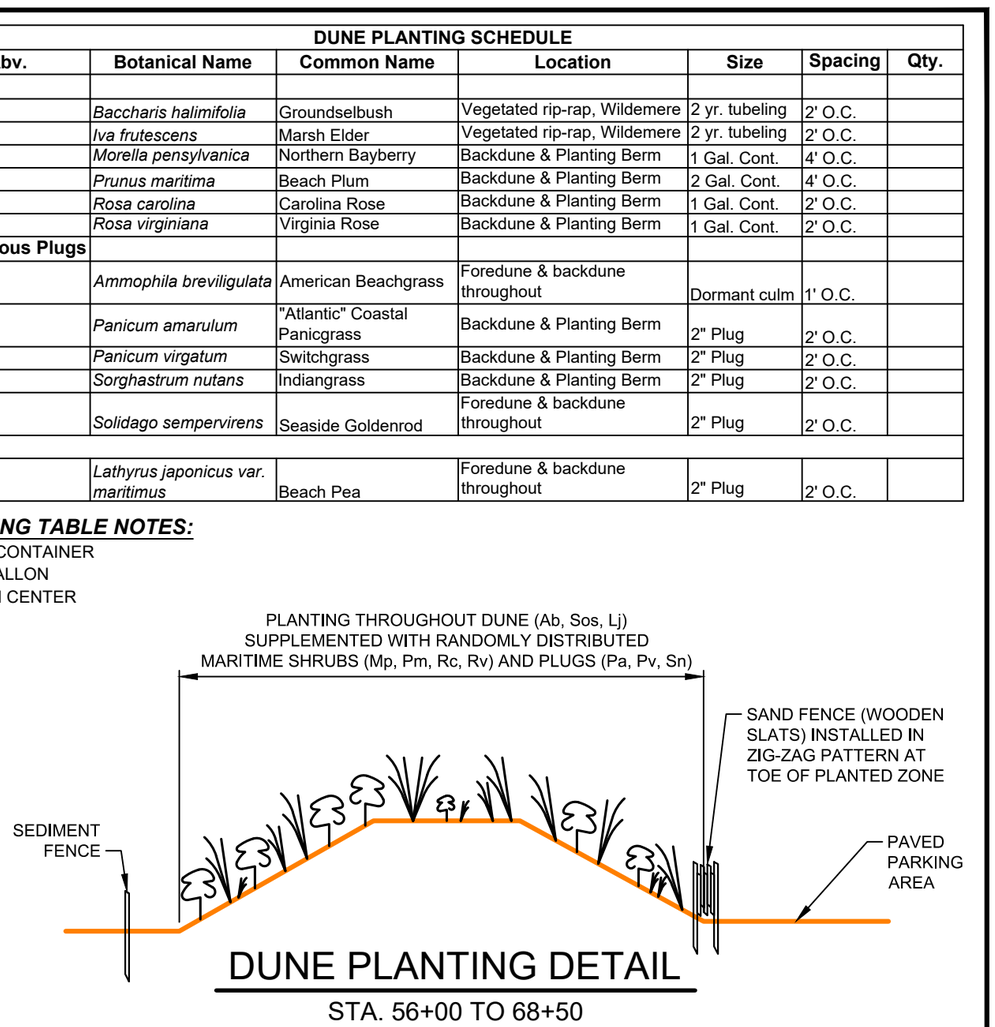
PLANTING TABLE NOTES:

CONT. = CONTAINER
GAL. = GALLON
O.C. = ON CENTER



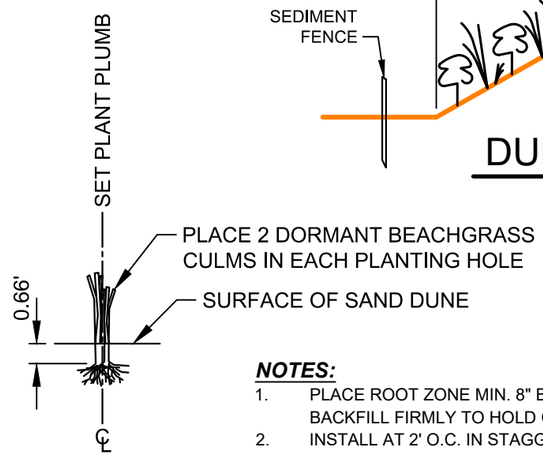
DUNE PLANTING DETAIL

STA. 1+50 TO 56+00



DUNE PLANTING DETAIL

STA. 56+00 TO 68+50



NOTES:

1. PLACE ROOT ZONE MIN. 8" BELOW SURFACE AND BACKFILL FIRMLY TO HOLD CULMS IN PLACE.
2. INSTALL AT 2' O.C. IN STAGGERED ROWS.

DORMANT CULM PLANTING DETAIL

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5	01/16/2019	COIR REINFORCEMENT DETAILS ADDED	JM
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1	03/09/2018	REVISIONS PER MILFORD FECB	JM
0	12/12/2017	PERMIT REVIEW	JM

Attention:
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STATE OF CONNECTICUT JOHN H. McCRANE No. 17578 LICENSED PROFESSIONAL ENGINEER

Designed: JM
Checked: BG
Drawn: DE
Approved By: JM

Walnut & Wildemere Beach Stabilization Project
Milford, Connecticut

City of Milford
Milford, Connecticut

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DUNE PLANTING DETAILS

Project 1700458 | December 2017 | Fig. 19

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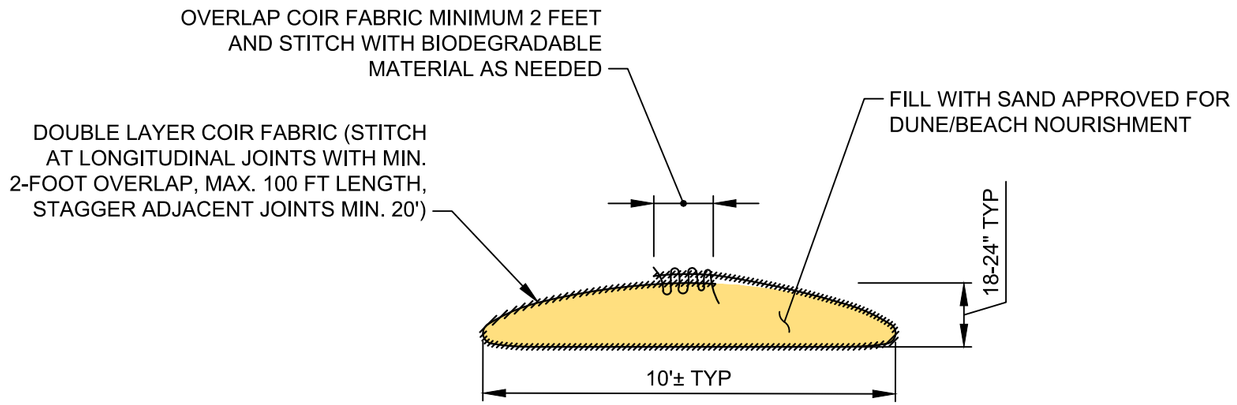
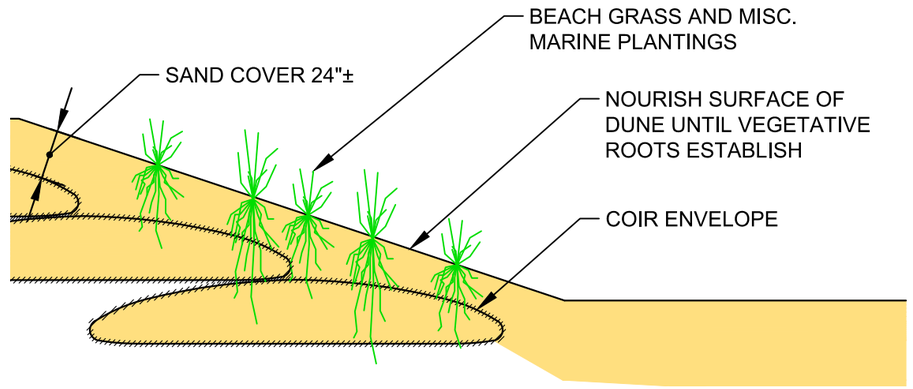


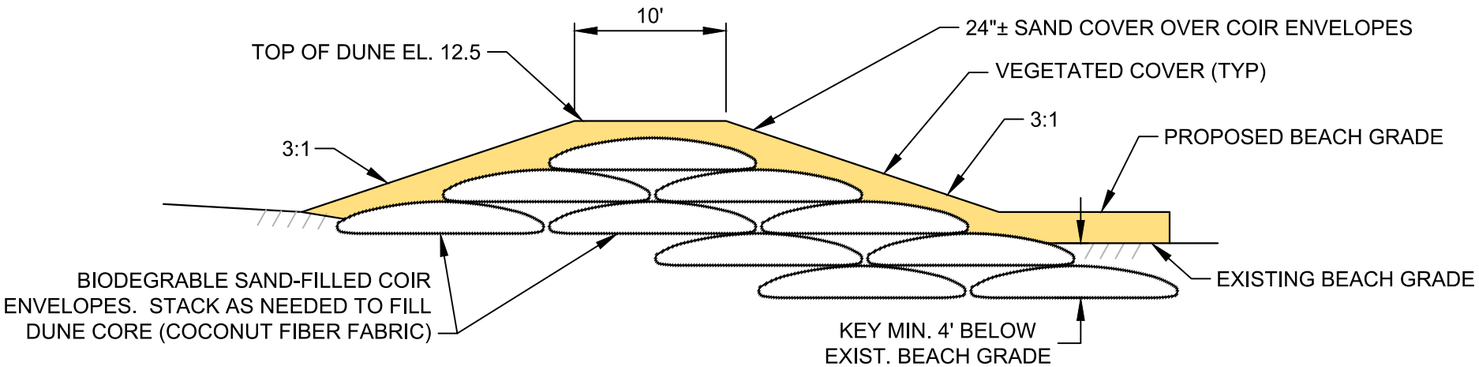
COIR ENVELOPE DETAIL

COCONUT COIR "CONTROL MAT 90" BY GEI WORKS OR EQUAL



VEGETATED COVER DETAIL

N.T.S.



ALTERNATE BIO-ENGINEERED SAND DUNE WITH COIR REINFORCEMENT

CONTINUOUS STA. 2+00 THRU 39+00
(WITH EXCEPTION OF STORM OUTFALL LOCATIONS)

0 10 20
SCALE: 1" = 10'

NO.	DATE	ISSUE/REVISION	APP
5	01/16/2019	COIR REINFORCEMENT DETAILS ADDED	JM
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Crescent Beach Stabilization Project
Milford, Connecticut

City of Milford
Milford, Connecticut

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Project 1700457

SAND DUNE COIR REINFORCEMENT DETAILS

December 2017 Fig. 20

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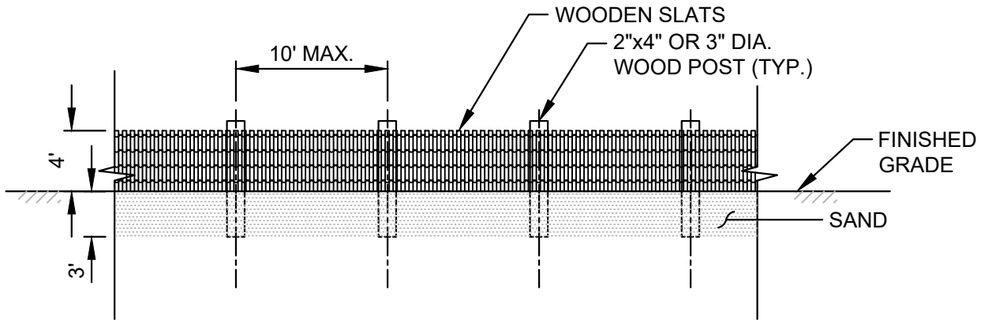
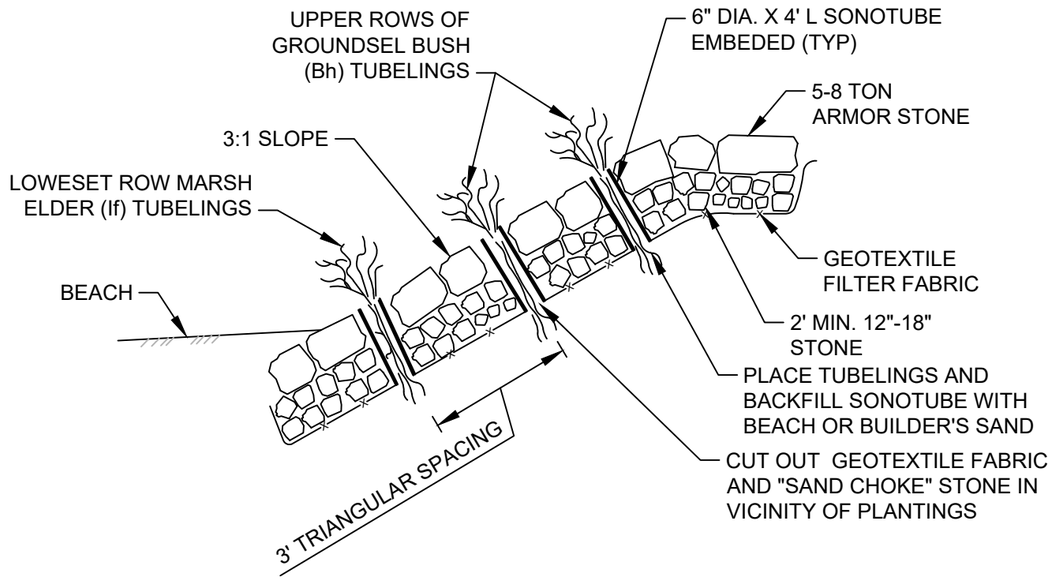
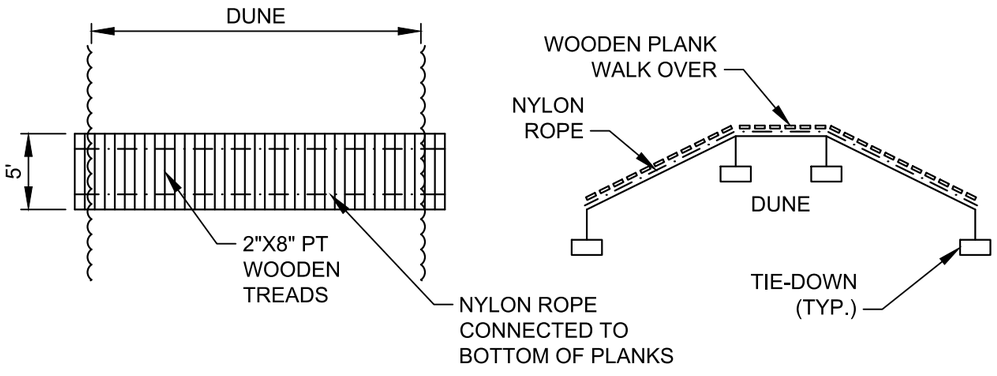


SAND FENCE



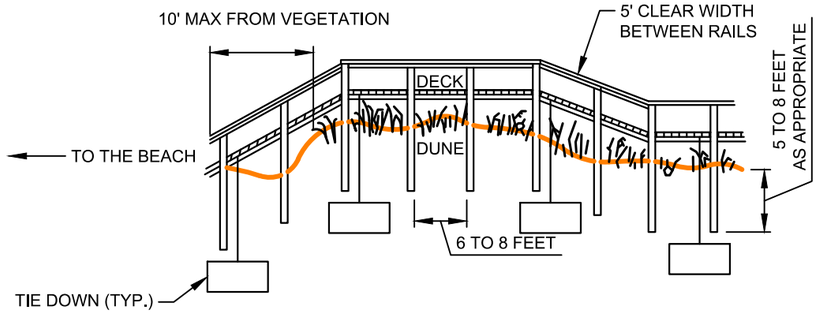
PLANTING DETAIL FOR ARMORED REVETMENT

NOT TO SCALE



WOODEN WALKOVER DETAIL (TYPE B)

FOR MINOR PUBLIC CROSSINGS AND "PRIVATE" WALK-OVERS



WOODEN WALKOVER DETAIL (TYPE A)

FOR MAJOR PUBLIC CROSSINGS - ADA COMPLIANT

NO.	DATE	ISSUE/REVISION	APP
5	01/16/2019	COIR REINFORCEMENT DETAILS ADDED	JM
4	11/28/2018	DRAINAGE OUTFALL REVISIONS	JM
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Drawn:	DE
Approved By:	JM

Walnut & Wildemere Beach Stabilization Project
Milford, Connecticut

City of Milford
Milford, Connecticut

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DUNE WALKOVER AND PLANTING DETAILS

Project 1700458 | December 2017 | Fig. 21

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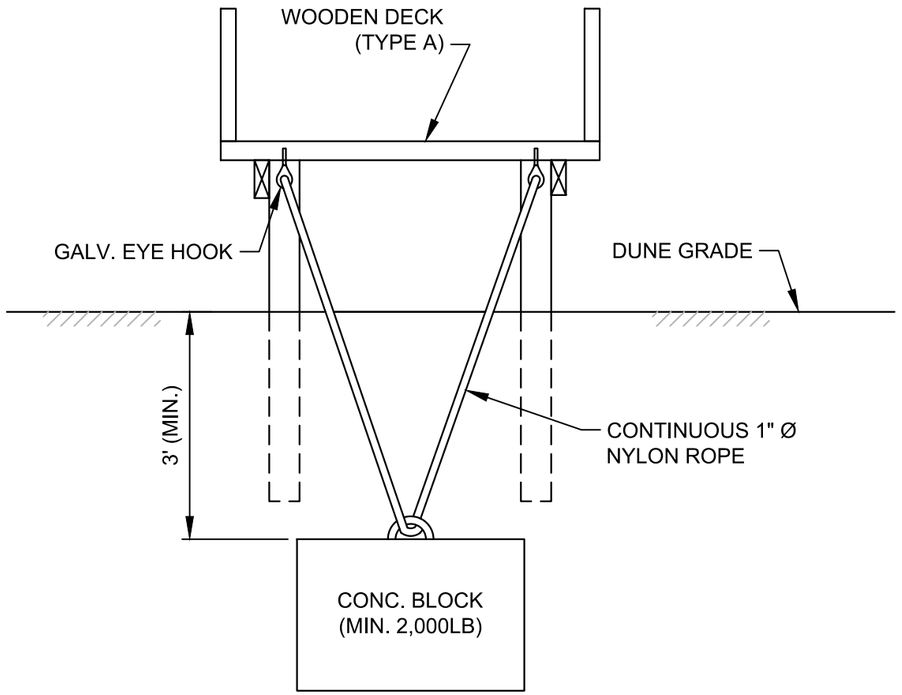

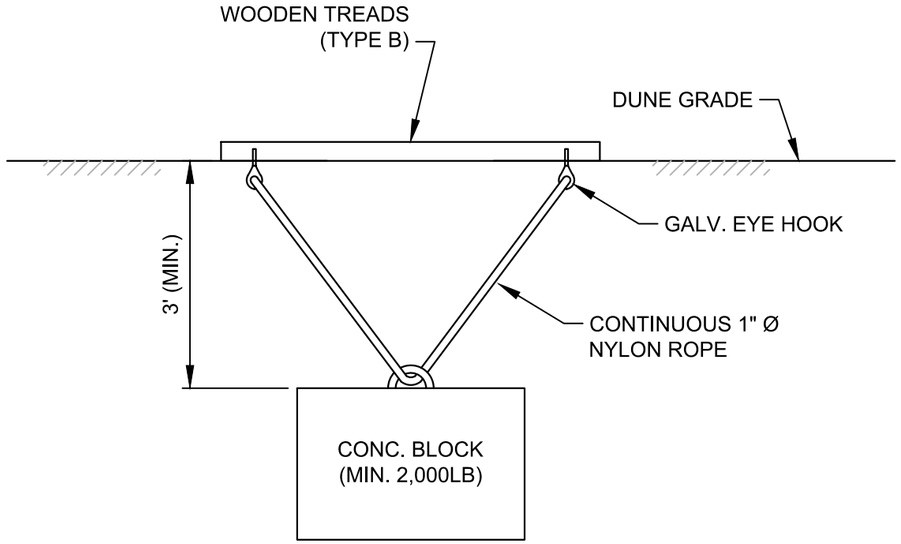

WOODEN WALKOVER TIE-DOWN DETAIL (TYPE A)

WOODEN WALKOVER TIE-DOWN DETAIL (TYPE B)

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0	12/12/2017	PERMIT REVIEW	JM

Attention:
0 1"
If this scale bar does not measure 1" then drawing is not original scale.

STATE OF CONNECTICUT JOHN H. McGRANE No. 13578 LICENSED PROFESSIONAL ENGINEER

Designed:	JM
Checked:	BG
Drawn:	DE
Approved By:	JM

Crescent Beach Stabilization Project
Milford, Connecticut

City of Milford
Milford, Connecticut

GEI Consultants

Project 1700457

DUNE CROSS-OVER ANCHORAGE DETAILS

December 2017 Fig. 22

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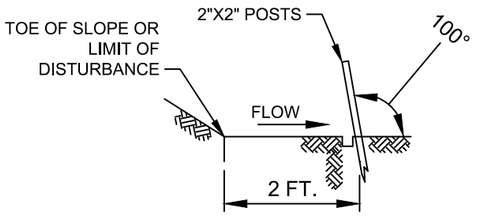
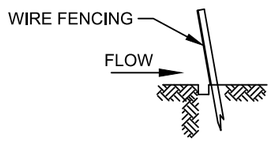
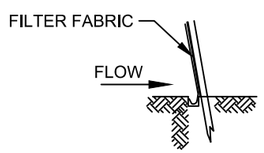


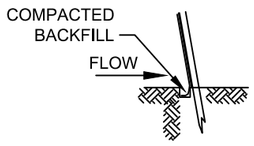
1. SET POSTS AND EXCAVATE A 6"x6" TRENCH. SET POSTS DOWN SLOPE. ANGLE 10° UPSLOPE FOR STABILITY AND SELF CLEANING



2. ATTACH THE WIRE MESH FENCING TO POST.

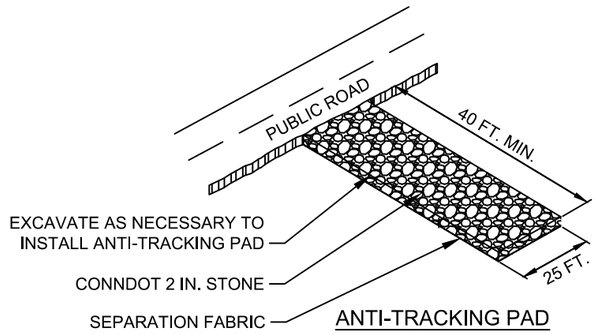


3. ATTACH FILTER FABRIC TO THE WIRE FENCING AND EXTEND IT TO THE TRENCH.



4. BACKFILL THE TRENCH AND COMPACT THE EXCAVATED SOIL.

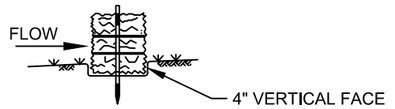
FILTER FABRIC FENCE SYSTEM
SEDIMENTATION CONTROL SYSTEM INSTALLATION
NOT TO SCALE



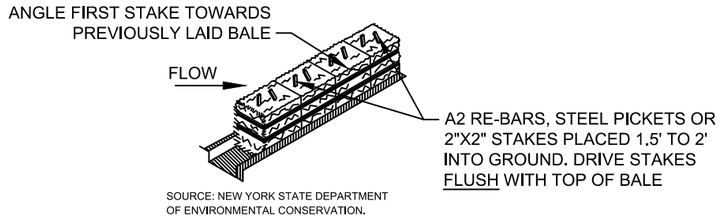
ANTI-TRACKING PAD
NOT TO SCALE

NOTES:

1. TRACKING PAD 4" MIN. THICK.
2. PLACEMENT/LOCATION OF ANTI-TRACKING PADS WILL BE CONTAINED IN A CONTRACTOR SUBMITTED DETAILED EROSION AND SEDIMENT CONTROL PLAN.



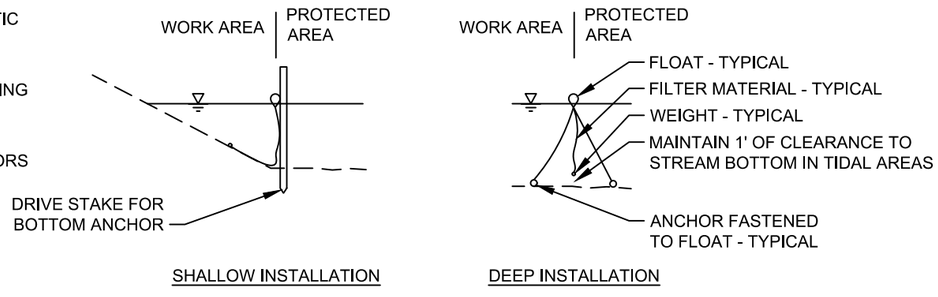
BEDDING DETAIL
NOT TO SCALE



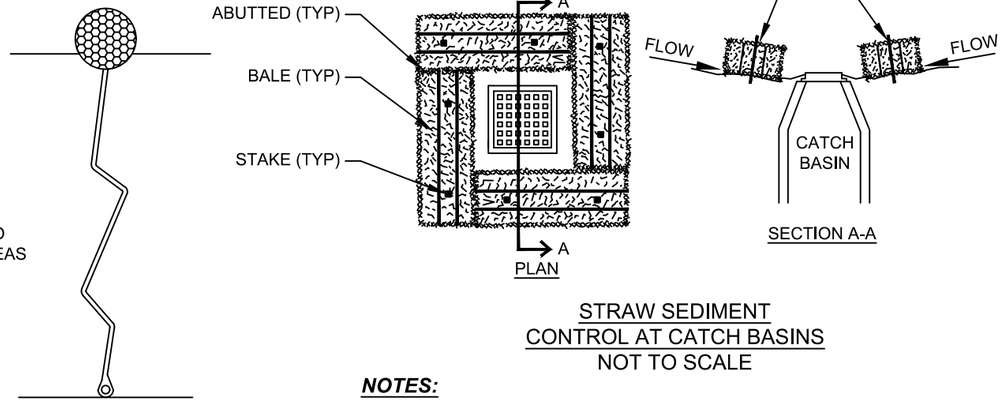
ANCHORING DETAIL
SINGLE-STACKED STRAW BALE DIKE DETAIL
NOT TO SCALE

TURBIDITY CURTAIN NOTES:

1. CURTAIN FABRIC SHALL BE A BRIGHTLY COLORED, TIGHTLY WOVEN, GEOSYNTHETIC OR IMPERVIOUS REINFORCED THERMOPLASTIC MATERIAL.
2. CONTRACTOR SHALL SUBMIT SHOP DRAWING OF FLOATING SEDIMENT BARRIER TO ENGINEER FOR REVIEW AND APPROVAL.
3. FLOATING SEDIMENT BARRIER AND ANCHORS SHALL BE CAREFULLY REMOVED FROM WATERCOURSE AND ACCUMULATED SEDIMENT SHALL BE DISPOSED OF IN AN OFF-SITE UPLAND AREA.
4. FLOATING SEDIMENT BARRIER SHALL BE INSPECTED DAILY FOR DAMAGE AND SEDIMENT LOAD. DEPENDING ON THE DURATION OF THE PROJECT, SEDIMENT SHALL BE REMOVED WHEN ITS ACCUMULATION INTERFERES WITH THE FUNCTION OF THE FLOATING SEDIMENT BARRIER.



TURBIDITY CURTAIN DETAIL
NOT TO SCALE



STRAW SEDIMENT
CONTROL AT CATCH BASINS
NOT TO SCALE

NOTES:

1. BALES ARE TO BE PLACED 4 INCHES IN THE SOIL, TIGHTLY ABUTTING WITH NO GAPS, STAKED AND BACKFILLED AROUND THE ENTIRE OUTSIDE PERIMETER.

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STATE OF CONNECTICUT · JOHN H. McGRANE · No. 13678 · LICENSED PROFESSIONAL ENGINEER

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Drawn: DE
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Walnut & Wildemere Beach Stabilization Project
Milford, Connecticut

City of Milford
Milford, Connecticut

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Project 1700458

EROSION AND SEDIMENT CONTROL DETAILS

December 2017 Fig. 23

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PROJECT NOTES:

1. THE CONTRACTOR ULTIMATELY SELECTED SHALL COMPLY WITH THE DEEP PERMIT FOR THE DISCHARGE OF STORMWATER AND DEWATERING WASTEWATERS ASSOCIATED WITH CONSTRUCTION ACTIVITIES, AND BE RESPONSIBLE FOR OVERSEEING THE INSTALLATION AND MAINTENANCE OF ALL SEDIMENTATION AND EROSION CONTROL MEASURES. CONTRACTOR WILL BE RESPONSIBLE FOR PREPARING AND OBTAINING THIS PERMIT, AND FOR COMPLIANCE DURING CONSTRUCTION.
2. THE CONTRACTOR ULTIMATELY SELECTED WILL BE REQUIRED TO PROVIDE A SUBMITTAL WHICH PROVIDES DETAILS, PROCEDURES, AND WORK METHODS TO PROPERLY EXECUTE THE WORK, PROTECT THE ENVIRONMENT, AND MINIMIZE DISRUPTION TO ADJACENT PROPERTIES AND PUBLIC FACILITIES. THIS PLAN SHALL INCLUDE, BUT IS NOT LIMITED TO:
    - PREPARATION OF VARIOUS PLANS AND OTHER WRITTEN SUBMITTALS REQUIRED FOR PROPER CONTROLS DURING CONSTRUCTION.
    - IDENTIFICATION OF STAGING AND STOCKPILE AREAS.
    - LOCATION AND PLACEMENT OF ANTI TRACKING PADS TO CONTROL SEDIMENTS.
    - SEQUENCING OF PLACEMENT AND REMOVAL OF TURBIDITY CURTAINS THAT WILL BE INSTALLED IN PHASES ALONG DUNE AND BEACH NOURISHMENT SECTIONS IN A “ROLLING” FASHION.
    - TRUCK ROUTES AND ACCESS POINTS FOR PORTIONS OF THE PROJECT REQUIRING OVERLAND DELIVERY OR REMOVAL OF MATERIAL.
    - FOR MATERIAL DELIVERED OR REMOVED FORM SITE USING WATERBORNE MEANS (BARGES, ETC.) A DETAILED SUBMITTAL WILL BE REQUIRED.
3. SEDIMENTATION AND EROSION CONTROL MEASURES ARE PROPOSED TO ADEQUATELY CONTROL THE ACCELERATED EROSION AND SEDIMENTATION AND REDUCE THE DANGER FROM STORMWATER RUNOFF AT THE SITE. THE RUNOFF SHALL BE CONTROLLED BY THE INTERCEPTION, DIVERSION, AND SAFE DISPOSAL OF PRECIPITATION. RUNOFF SHALL ALSO BE CONTROLLED BY STAGING CONSTRUCTION ACTIVITY AND PRESERVING NATURAL VEGETATION WHENEVER POSSIBLE.
4. EXISTING DUNE VEGETATION SHALL BE PROTECTED AND ONLY THAT CLEARING AND GRUBBING THAT IS ABSOLUTELY NECESSARY FOR THE PROPOSED DUNE CONSTRUCTION, DRAINAGE INSTALLATION, AND BEACH NOURISHMENT SHALL BE PERFORMED. ALL DISTURBED AREAS SHALL BE RESTORED TO THEIR ORIGINAL CONDITION AND CONTOUR, UNLESS OTHERWISE INDICATED ON THE PLANS. THE CONTRACTOR SHALL TAKE SPECIAL CARE WITH HIS DUNE CONSTRUCTION, BEACH NOURISHMENT, AND DREDGING METHODS AND SHALL COMPLY WITH SPECIFICATIONS FOR EROSION AND SEDIMENT CONTROLS.
5. ALL AREAS SHALL BE PROTECTED FROM SEDIMENTATION DURING AND AFTER DREDGING, INCLUDING THE CORRESPONDING STORAGE AND HANDLING AREAS FOR DREDGED SEDIMENT. STOCKPILES MUST BE ADEQUATELY PROTECTED WITH HAY BALES AND/OR FILTER FABRIC FENCE AS INDICATED.
6. FREQUENTLY INSPECT EROSION CONTROLS. REPAIR/REPLACE DEFICIENT EROSIONS CONTROLS PROMPTLY, AS NEEDED.
7. STONE STABILIZED VEHICLE ANTI-TRACKING PADS SHALL BE LOCATED AT POINTS OF VEHICULAR INGRESS AND EGRESS FROM THE CONSTRUCTION SITE TO REDUCE TRACKING OR FLOWING OF SEDIMENT INTO PUBLIC RIGHTS-OF-WAY. FILTER FABRIC SHALL BE PLACED ON SUBGRADE PRIOR TO PLACEMENT OF STONE. STONE SHALL BE PLACED TO THE DIMENSIONS SHOWN ON THE PLAN. PERIODIC TOP DRESSING WITH ADDITIONAL STONE OR ADDITIONAL LENGTH, AS CONDITIONS DEMAND, MAY BE REQUIRED TO ENSURE THAT THE ENTRANCE FUNCTIONS AS INTENDED. PUBLIC ROADWAYS SHALL BE CLEANED OF DIRT AND DEBRIS AS NECESSARY, OR AS DIRECTED BY THE ENGINEER.
8. IN ALL AREAS, REMOVAL OF TREES, BUSHES AND OTHER VEGETATION, AND DISTURBANCE OF THE SOIL, IS TO BE KEPT TO AN ABSOLUTE MINIMUM WHILE ALLOWING PROPER DEVELOPMENT OF THE SITE.
9. DURING DREDGING OPERATIONS REQUIRED FOR INSTALLATION OF DRAINAGE, ROCK CORE BASE, AND OTHER COMPONENTS, THE AREA AND DURATION OF SEDIMENT EXPOSURE SHALL BE MINIMIZED, AND THE SEQUENCE OF DREDGING OPERATION SHALL ACT TO MINIMIZE THE EXPOSURE.
10. ALL SEDIMENTATION AND EROSION CONTROL DEVICES SHALL BE INSPECTED DURING CONSTRUCTION AND THE CONTRACTOR SHALL MAINTAIN AND MAKE REPAIRS AND REMOVE SEDIMENT IF IT HAS ACCUMULATED AND RENDERED THE SEDIMENT CONTROL NON-FUNCTIONAL. THE CONTRACTOR SHALL IN ADDITION MAINTAIN AND MAKE REPAIRS AND REMOVE SEDIMENT AS REQUESTED BY THE ENGINEER. THE CONTRACTOR SHALL CLEAN SEDIMENT AND DEBRIS FROM ALL DRAINAGE STRUCTURES AND PIPES AT THE COMPLETION OF THE DREDGING ACTIVITIES AND AS REQUESTED BY THE ENGINEER TO KEEP THE DRAINAGE SYSTEM PROPERLY FUNCTIONING.

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Walnut & Wildemere Beach Stabilization Project
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EROSION AND SEDIMENT CONTROL NOTES

December 2017 Fig. 24

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