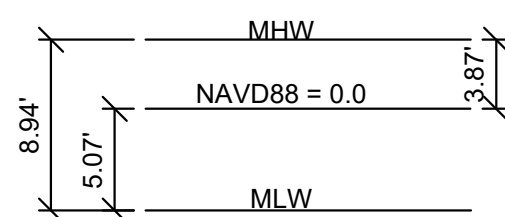
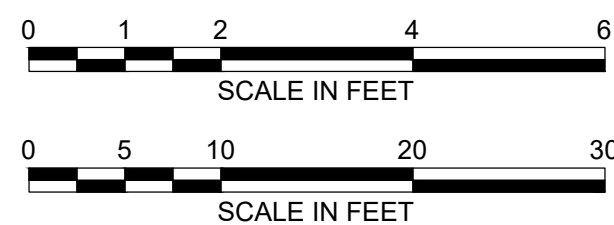


1. ELEVATIONS ARE IN FEET BASED ON THE NORTH AMERICAN VERTICAL DATUM 1988 (NAVD88): MW=5.07, NAVD88=0.00, MHW=5.87. TIDAL DATUM REFERENCED TO THE NATIONAL OCEANOGRAPHIC AND ATMOSPHERIC ADMINISTRATION (NOAA) STATION ID 8445138 FOR SCITUATE HARBOR, SCITUATE, MA.
2. LIMITED TOPOGRAPHIC SURVEY AND SITE OBSERVATIONS PERFORMED BY GZA GEOENVIRONMENTAL, INC. ON MARCH 16 AND APRIL 14, 2020 AND REPRESENTS CONDITIONS AT THE TIME OF THE SURVEY AND OBSERVATIONS.
3. ORTHOMOSAIC IMAGES DEVELOPED BY GREENMAN-PEDERSEN, INC. ON APRIL 6, 2020 USING UNMANNED AIRCRAFT SYSTEM FLIGHT AT AN ALTITUDE OF APPROXIMATELY 150 TO 200 FEET. ELECTRONIC FILES WERE SENT TO GZA GEOENVIRONMENTAL, INC. ON APRIL 9, 2020.
4. PROPERTY LINES AND FEMA FLOOD ZONES WERE TAKEN FROM MOST RECENT AVAILABLE DATA FROM MA GIS DATABASE.
5. DETAILS SHOWN AND LOCATIONS OF PIPE PILES WERE DEVELOPED FROM ELECTRONIC FILES BY NUCCI VINE ASSOCIATES ENTITLED "OCEANSIDE DRIVE SEAWALL REPAIRS - OUTFALL RECONSTRUCTION", DATED OCTOBER 1998, SHEET 4 OF 4.

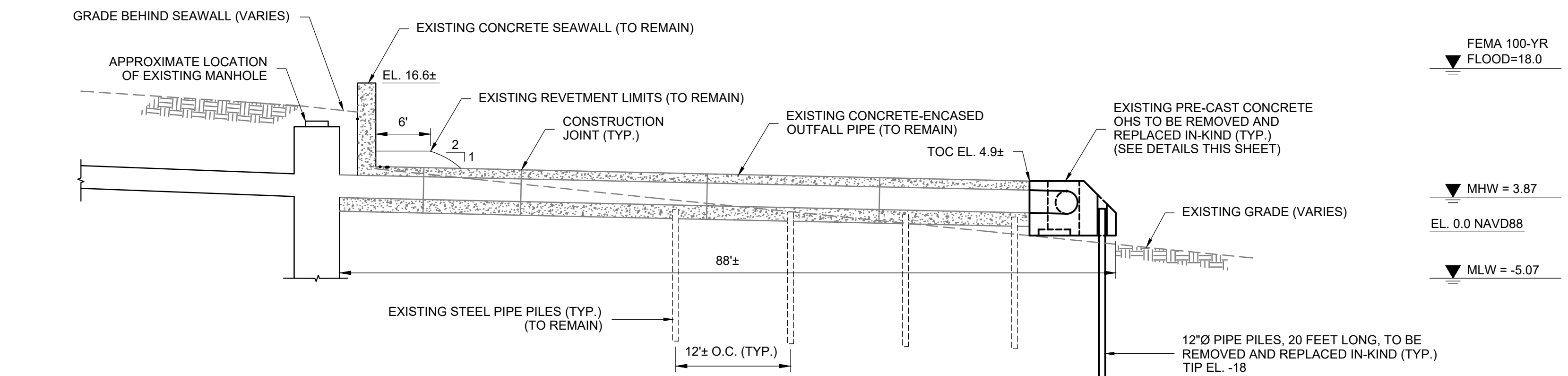
PROPOSED OUTFALL REPAIR PLAN: OCEANSIDE OUTFALL
SCALE: 1"=10'



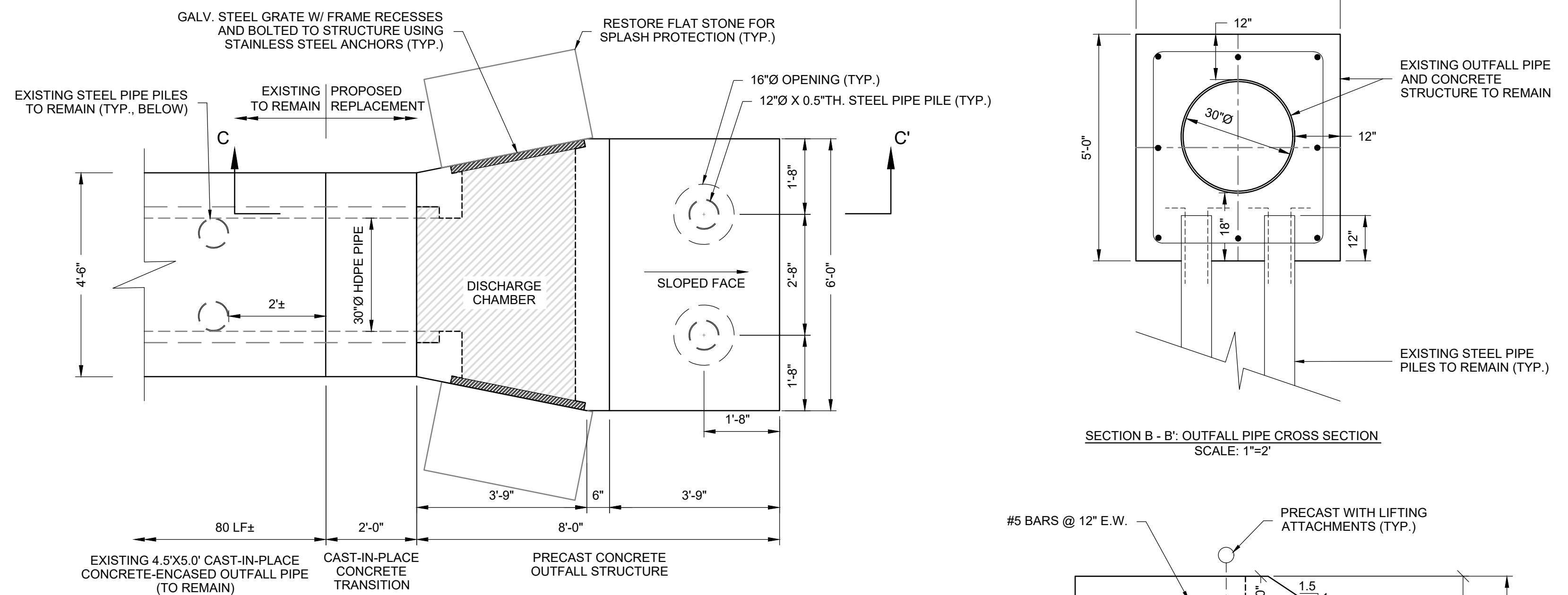
DATUM RELATIONSHIP
NOT TO SCALE



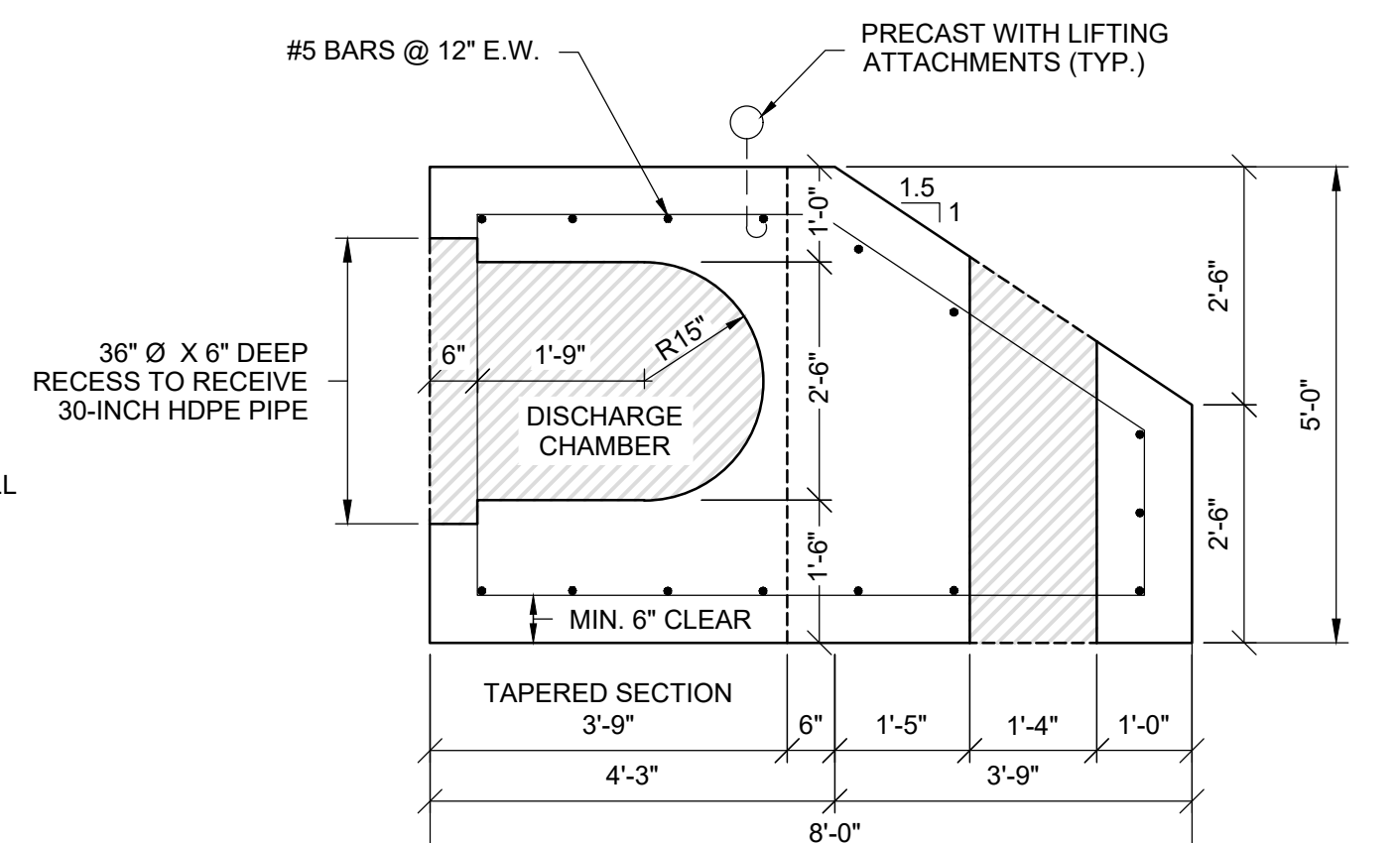
PERMITTING ONLY
NOT FOR CONSTRUCTION



SECTION A - A': OUTFALL PIPE ELEVATION
SCALE: 1"=10'



SECTION B - B': OUTFALL PIPE CROSS SECTION
SCALE: 1"=2'




PRECAST CONCRETE OUTFALL HEAD REBAR DETAIL
SCALE: 1"=2'

NO.	ISSUE/DESCRIPTION	BY	DATE

UNLESS SPECIFICALLY STATED BY WRITTEN AGREEMENT, THIS DRAWING IS THE SOLE PROPERTY OF GZA GEOFENVIRONMENTAL, INC. (GZA). THE INFORMATION SHOWN ON THE DRAWING IS SOLELY FOR USE BY GZA'S CLIENT OR THE CLIENT'S DESIGNATED REPRESENTATIVE FOR THE SPECIFIC PROJECT AND LOCATION IDENTIFIED ON THE DRAWING. THE DRAWING SHALL NOT BE TRANSFERRED, REUSED, COPIED, OR ALTERED IN ANY MANNER FOR USE AT ANY OTHER LOCATION OR FOR ANY OTHER PURPOSE WITHOUT THE PRIOR WRITTEN CONSENT OF GZA. ANY TRANSFER, REUSE, OR MODIFICATION TO THE DRAWING BY THE CLIENT OR OTHERS, WITHOUT THE PRIOR WRITTEN EXPRESS CONSENT OF GZA, WILL BE AT THE USER'S SOLE RISK AND WITHOUT ANY RISK OR LIABILITY TO GZA.

46 OCEANSIDE DRIVE OUTFALL REPAIR
NORTH SCITUATE BEACH REVETMENT DESIGN (19-FS-53)
SCITUATE, MASSACHUSETTS

PREPARED BY:  GZA GeoEnvironmental, Inc. Engineers and Scientists www.gza.com		PREPARED FOR: TOWN OF SCITUATE 600 CHIEF JUSTICE CUSHING SCITUATE, MASSACHUSETTS	
PROJ MGR: DAS DESIGNED BY: DAS DATE: JUNE 2021	REVIEWED BY: ASB DRAWN BY: LFT/LAK PROJECT NO. 18.0174547.00	CHECKED BY: DAS SCALE: AS NOTED REVISION NO.	DRAWING <div style="font-size: 2em; font-weight: bold; text-align: center;">1</div> SHEET NO. 1 OF 1

CONCRETE NOTES:

1. CONTRACTOR SHALL FIELD VERIFY ALL DIMENSIONS AND CONFIRM FIT PRIOR TO ORDERING PRECAST CONCRETE.

APPROVED:




Photographic Log – Oceanside

Scituate Foreshore Protection Repairs

North Scituate Beach

Client Name: Town of Scituate		Site Location: #46 Oceanside Drive, Scituate, MA	Project No. 18.0174547.00
Photo No. 1	Date: 4/14/20		
Direction Photo Taken: West			
Description: An overview of the outfall structure along its east face. Note the damaged and displaced precast concrete outfall head structure.			

Photo No. 2	Date: 4/14/20	
Direction Photo Taken: East		
Description: An overview of the outfall structure along its west face. Note the damaged and displaced precast outfall head structure and undermining of the concrete-encased poly pipe.		

Photographic Log – Oceanside Scituate Foreshore Protection Repairs North Scituate Beach

Client Name: Town of Scituate		Site Location: #46 Oceanside Drive, Scituate, MA	Project No. 18.0174547.00
Photo No. 3	Date: 4/14/20		
Direction Photo Taken: Northeast			
Description: A topside view of the outfall structure.			

Photo No. 4	Date: 4/14/20	
Direction Photo Taken: West		
Description: East side view of the damaged and displaced precast concrete outfall head structure. Note severe concrete deterioration with exposed reinforcement and pipe pile supports.		

Photographic Log – Oceanside Scituate Foreshore Protection Repairs North Scituate Beach

Client Name: Town of Scituate		Site Location: #46 Oceanside Drive, Scituate, MA	Project No. 18.0174547.00
Photo No. 5	Date: 4/14/20		
Direction Photo Taken: Southwest			
Description: A closeup view of the seaward face of the damaged and displaced precast concrete outfall head structure. Note severe concrete deterioration with exposed reinforcement and pipe pile supports.			

Photo No. 6	Date: 4/14/20	
Direction Photo Taken: South		
Description: A view of the damaged and displaced precast concrete outfall head structure and concrete-encased poly pipe. Note severe concrete deterioration with exposed reinforcement and pipe pile supports. Also note undermining and scour around the outfall head structure and pipe.		

Photographic Log – Oceanside Scituate Foreshore Protection Repairs North Scituate Beach

Client Name: Town of Scituate		Site Location: #46 Oceanside Drive, Scituate, MA	Project No. 18.0174547.00
Photo No. 7	Date: 2/4/20		
Direction Photo Taken: Southeast			
Description: A view of the west face of the damaged and displaced precast concrete outfall head structure and concrete-encased poly pipe. Note severe concrete deterioration with exposed reinforcement and pipe pile supports. Also note undermining and scour around the outfall head structure and pipe.			

Photo No. 8	Date: 2/4/20	
Direction Photo Taken: Southeast		
Description: An additional view of the concrete-encased poly pipe near the outfall head structure. Note the undermining and scour around the bottom of the concrete encased pipe and pile supports.		