

## MEMORANDUM

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To: Rebecca Paustin

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From: William Gatchell

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Date: July 12, 2023

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Project: 21205 / 0233681

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Subject: Scituate Stearns Meadow Drinking Water Treatment Plant – Exterior Design Narrative

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Exterior building design development for the proposed Stearns Meadow Drinking Water Treatment Plant in Scituate, MA is broken into three categories. Building massing, exterior materials, and building envelope assembly.

Building massing is based on several key factors.

- Town feedback from a presentation by Harriman and Woodard & Curran in September, 2021. This presentation included recent water treatment plant designs and examples of municipal buildings in Scituate. The town's feedback was for the design team to develop a design where multiple gable forms break up the mass of the building and work to keep the overall bulk and height of the building as small as possible.
- Contextual sensitivity to the adjacent residential neighborhood with regard to scale and building form. Building forms needed to be compatible with a residential character.
- Response to the sloping site, access requirements by pedestrians and vehicles, and a revised program that stacks the vehicle garage program under the administrative area.
- The desire to create a building form with a clear front door to limit confusion for guests and reduce conflict between town vehicles and visitors. The main entry is clearly visible from the road and has a unique character compared to the rest of the building.

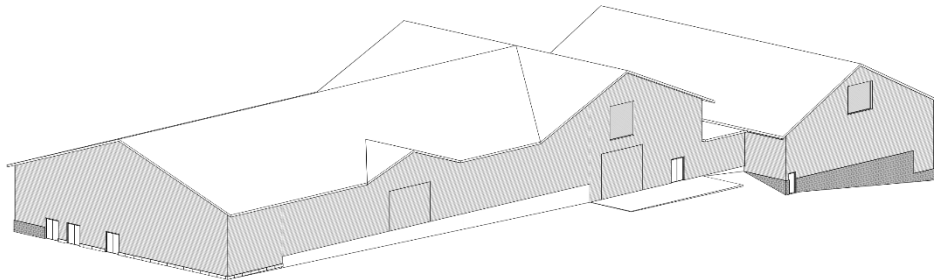
Exterior materials are an evolution of earlier design studies developed for this project and presented to the town. A stone base with clapboard siding above provides a residential character and protects the base of the building with a durable material. The stone base evolved from a simple water table element to a composition that highlights the building entry then drops to a water table or single masonry base element. The roof is asphalt shingle due to its residential character and lower cost. It also is a safer material regarding falling snow and ice compared to metal. Colors were selected to be compatible with the character of Scituate as a coastal community. Images of materials are shown on sheet A-612, Finishes Board.

Building envelope assembly consists of load bearing concrete modular units (CMU), weather barrier, continuous rock wool board insulation that meets or exceeds the 2021 MA energy stretch code of R13ci, and masonry veneer or cement board siding finish materials.

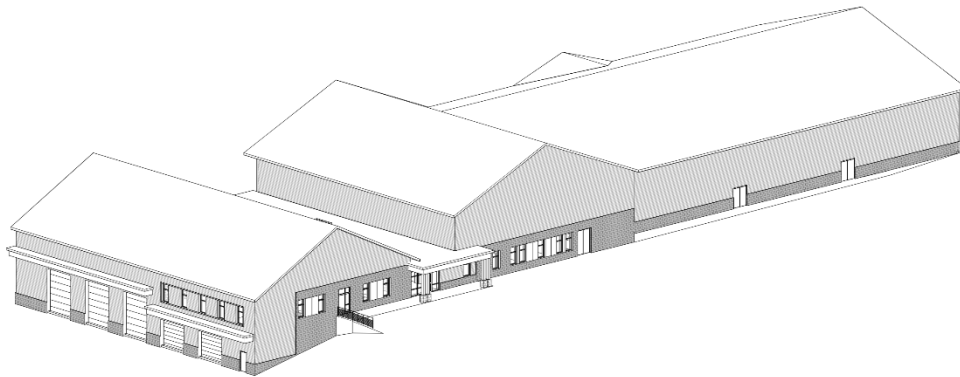
- CMU: 12"D x 16" L x 8" H.
- Fluid applied air barrier.
- Metal Z framing to support masonry veneer and siding.
- (2) 2" thick Rockwool boards staggered.
- Exterior finish materials
  - Ground face CMU: 4" D x 16" L x 8" H.
  - Cement board siding, smooth finish.

Roof assembly:

- (3) 2.5" thick Rockwool boards staggered over metal deck.
- ½" cover board.
- Roofing underlayment.
- Asphalt shingles.
- Note: flat roof areas will be EPDM, rubber roof, mechanically fastened over cover board.

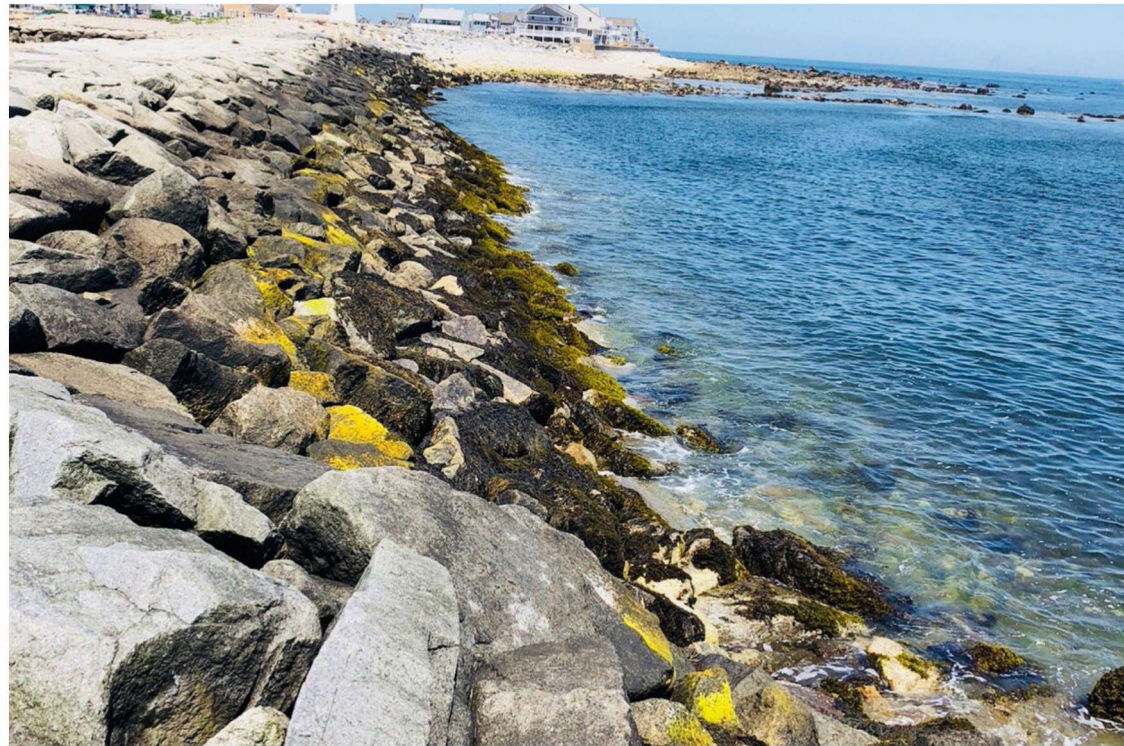


Northwest view of building

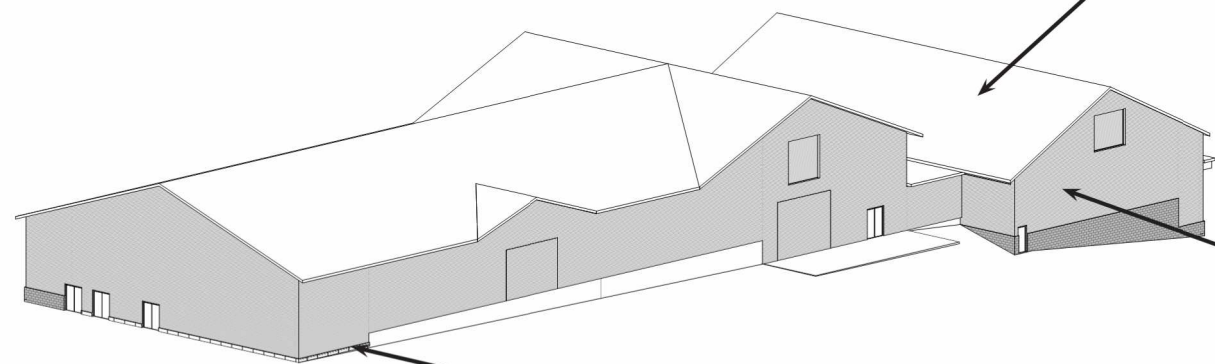


Southeast view of building





ASPHALT ROOF SHINGLE



CEMENT BOARD SIDING

SMOOTH TEXTURE

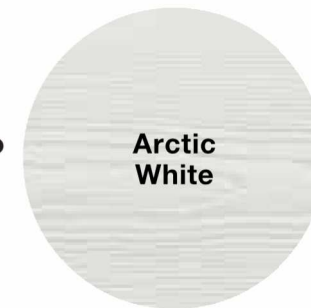


Smooth



Hardie® Trim  
Smooth  
Arctic White

COLOR OPTIONS



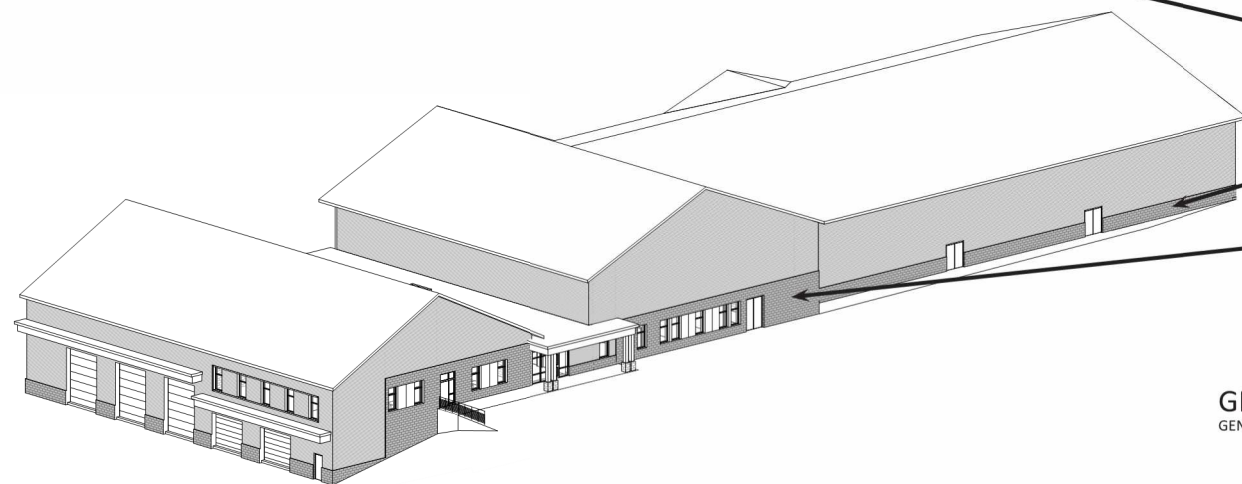
Arctic  
White



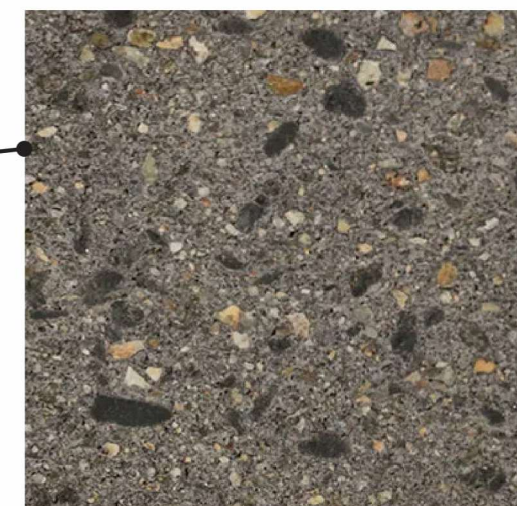
Cobble  
Stone



Aged  
Pewter



GROUND FACE CMU  
GENEST



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### Harriman

PE SEAL:

30% DESIGN - NOT FOR  
CONSTRUCTION

CLIENT INFO:

TOWN OF SCITUATE,  
MASSACHUSETTS

STEARNS MEADOW DRINKING  
WATER TREATMENT PLANT

REV | MM/DD/YY | DESCRIPTION

JOB NO: 0233681

DATE: JULY 12, 2023

SCALE:

DESIGNED BY: WHG

DRAWN BY: AAM

CHECKED BY: MDL

FILENAME:

DRAWING TITLE:

FINISHES BOARD

DRAWING NO:

A-612

SHEET: OF