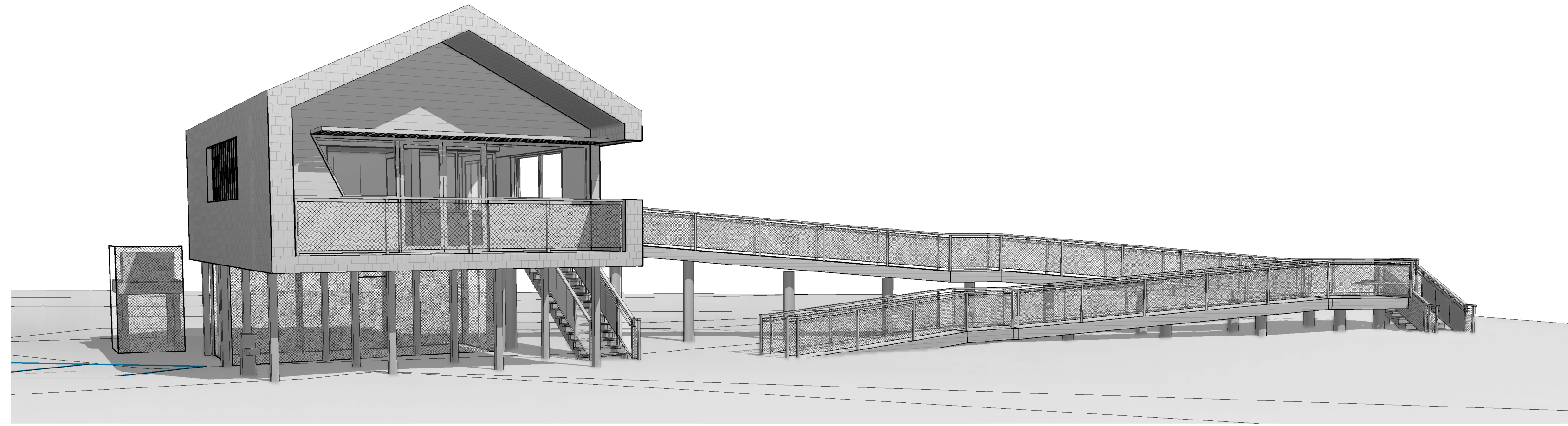


# ROCK HARBOR HARBORMASTER BUILDING AND SITE REVITALIZATION PROJECT

631 DYER PRINCE ROAD  
EASTHAM, MA 02642  
PARCEL NO: 19-120-0

## NOTICE OF INTENT UPDATES APRIL 5, 2021



### TABLE OF CONTENTS

SHEET #	DISCIPLINE	SHEET NAME	PLANNING SUBMISSION 03/16/21	PLANNING REVISION 04/05/21	NOI UPDATES 04/05/21
G000	GENERAL	COVER	X	X	X
G001	GENERAL	BASIS OF DESIGN NARRATIVES	X	X	X
C001	CIVIL	EXISTING CONDITIONS	X	X	X
C002	CIVIL	SITE PLAN	X	X	X
C003	CIVIL	DETAILS	X	X	X
A100	ARCHITECTURE	ARCHITECTURE SITE PLAN	X	X	X
A101	ARCHITECTURE	FLOOR PLANS	X	X	X
A102	ARCHITECTURE	ROOF PLAN & RCP	X	X	X
A201	ARCHITECTURE	EXTERIOR ELEVATIONS	X	X	X
A202	ARCHITECTURE	EXTERIOR ELEVATIONS	X	X	X
A301	ARCHITECTURE	BUILDING SECTIONS	X	X	X
A311	ARCHITECTURE	WALL SECTIONS	X	X	X
A501	ARCHITECTURE	EXTERIOR DETAILS	X	X	X
A900	ARCHITECTURE	3D VIEWS	X	X	X
L1.0	LANDSCAPE	LANDSCAPE PLAN	X	X	X
L1.1	LANDSCAPE	PLANTING PLAN LAYOUT	X	X	X
L1.2	LANDSCAPE	LANDSCAPE LAYOUT PLAN	X	X	X
L2.0	LANDSCAPE	LANDSCAPE SECTIONS	X	X	X
L3.0	LANDSCAPE	LANDSCAPE DETAILS	X	X	X

### PROJECT DIRECTORY

**CLIENT**  
TOWN OF EASTHAM  
2400 STATE HIGHWAY  
EASTHAM, MA 02642  
CONTACT: SHANA BROGAN  
PHONE: 508-240-5871, Ext. 3613  
EMAIL: conservation@eastham-ma.gov

**ARCHITECT**  
KUTH FRANIER ARCHITECTS  
725 GREENWICH ST SUITE 300  
SAN FRANCISCO, CA 94133  
CONTACT: RICH CLAYTOR  
PHONE: 508-833-6600  
EMAIL: rmarcslow@kuthranieri.com

**CIVIL ENGINEER & SURVEYOR**  
HORSLEY WITTEN GROUP, INC  
90 ROUTE 6A, UNIT 1  
SANDWICH, MA 02563  
CONTACT: RICH CLAYTOR  
PHONE: 508-833-6600  
EMAIL: rclaytor@horsleywitten.com

**LANDSCAPE ARCHITECT**  
LANDWORKS STUDIO, INC  
83 NORTH STREET  
SALEM, MA 01970  
CONTACT: MICHAEL BLIER  
PHONE: 617-426-3030  
EMAIL: mblier@landworks-studio.com

**STRUCTURAL & COASTAL ENGINEER**  
MOTT MACDONALD  
3 PARKGOWN WAY  
FREEHOLD, NJ 07728  
CONTACT: DOUGLAS GAFFNEY  
PHONE: 732-333-3283  
EMAIL: douglas.gaffney@mottmac.com

**PLUMBING, MECHANICAL & ELECTRICAL ENGINEERS**  
BLW ENGINEERS  
311 GREAT ROAD  
PO BOX 1551  
LITTLETON, MA 01460  
CONTACT: JOHN C. PIERGA, PE  
PHONE: 978-486-4301 Ext. 15  
EMAIL: pierga@blwengineers.com

### VICINITY MAP



### PROJECT SCOPE

**ARCHITECTURAL:** GROUND-UP CONSTRUCTION OF A SINGLE STORY HARBORMASTER BUILDING ELEVATED ON WOOD PILES CONTAINING OFFICE SPACE, A KITCHENETTE, AND A TOILET ROOM FOR STAFF USE. EXTERIOR CONSTRUCTION INCLUDES STAIR ACCESS, ACCESSIBLE RAMPS, A VIEWING PLATFORM WITH INTEGRATED SEATING, AND SECURED OPEN STORAGE BELOW. SITE CONSTRUCTION INCLUDES A DEMOUNTABLE BANDSHELL PAVILION AND A SCREENED GENERATOR PLATFORM ADJACENT TO MAIN BUILDING.

**STRUCTURAL:** SINGLE STORY CONVENTIONAL WOOD FRAME ON WOOD PILE FOUNDATION, IN ACCORDANCE WITH THE WOOD FRAME CONSTRUCTION MANUAL.

**CIVIL:** PERVIOUS PARKING, SITE UTILITIES AND CONNECTIONS AT BUILDING, LIMITED GRADING, STORMWATER CATCHMENT AND TREATMENT (TSD)

**PLUMBING:** 1 TOILET ROOM FOR STAFF USE, KITCHENETTE, SITE PLUMBING FOR RINSE STATION, CONNECTION TO EXISTING TOWN WATER SUPPLY ON SITE

**ELECTRICAL:** ELECTRICAL FOR BUILDING, SITE ELECTRICAL FOR LIGHTING

**FIRE PROTECTION:** BUILDING IS UNSPRINKLERED

**MECHANICAL:** SINGLE-ZONE SPLIT SYSTEM AIR SOURCE HEAT PUMP

**LANDSCAPE:** PERMEABLE PARKING, PEDESTRIAN WALKS, DEMOUNTABLE BANDSHELL PAVILION, RINSE STATION, PICNIC AREA, SEATING AREAS, INVASIVE SPECIES REMOVAL, HABITAT REMEDIATION, INTERPRETIVE AND WAYFINDING SIGNAGE

### APPLICABLE CODES & STANDARDS

MASSACHUSETTS STATE BUILDING CODE (780 CMR), NINTH EDITION, ADOPTING WITH MODIFICATIONS THE FOLLOWING CODES:

- INTERNATIONAL BUILDING CODE (IBC);
- INTERNATIONAL MECHANICAL CODE (IMC);
- INTERNATIONAL ENERGY CONSERVATION CODE (IECC); AND
- PORTIONS OF THE INTERNATIONAL FIRE CODE (IFC).

### PROJECT DATA

LOCATION:	631 DYER PRINCE ROAD EASTHAM, MA 02642	EXPOSURE:	EXPOSURE D
TYPE:	NEW GROUND-UP HARBORMASTER BUILDING AND SITE IMPROVEMENT	GROUND SNOW LOAD:	25 PSF
PARCEL NUMBER:	MAP 19 PARCEL 120	MINIMUM FLAT ROOF SNOW LOAD:	25 PSF
CONSTRUCTION TYPE:	V-B	RISK CATEGORY:	II
BUILDING OCCUPANCY:	B	BASIC WIND SPEED:	140
LOT AREA:	9.9 ACRES (431,169 SF)	SEISMIC PARAMETERS(Ss, S1):	0.146, 0.054

### PROPOSED PROJECT INFORMATION:

NUMBER OF STORIES: 1

PROPOSED AREAS:

OFFICE LEVEL:	703 SF
<b>CONDITIONED GROSS:</b>	<b>582 SF</b>
DECKS AND RAMPS:	727 SF
OPERAIR STORAGE:	215 SF
GENERATOR PLATFORM:	30 SF

BUILDING HEIGHT (MAXIMUM ALLOWED): 24' - 0"

ON-SITE PARKING SPACES: 30

### PROJECT DESCRIPTION

WORK CONSISTS OF A NEW WOOD-FRAMED HARBORMASTER BUILDING ON A WOOD PILE FOUNDATION, A DEMOUNTABLE BANDSHELL PAVILION, PERMEABLE PARKING, PERMEABLE PEDESTRIAN WALKS, BENCHES, PICNIC AREA, RINSE STATION, SITE LIGHTING, AND INVASIVE SPECIES REMOVAL AND HABITAT RESTORATION.

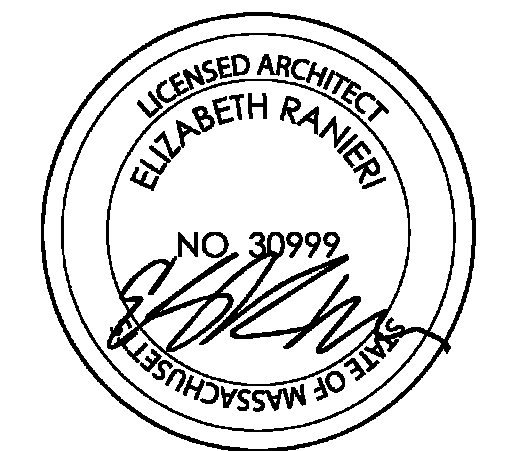
NOTE: If this drawing is not on 30in x 42 in, it has been revised from its original size. Scales as noted on drawings/details are no longer applicable.  
4/2/2021 2:30:28 PM

PROJECT INFORMATION

Town of Eastham

OWNER

APR



STAMP

Notice of Intent Updates

04/05/21

ISSUANCE

6	04/05/21	Notice of Intent Updates
5	04/05/21	Planning Rev. 1
3	3/16/21	Planning Submission
2	3/2/21	100% Schematic Design - Revision 1
1	3/1/21	100% Schematic Design

ISSUE DATE DESCRIPTION

DRAWN BY: CHECKED BY: PROJECT #: 2003

COVER

TITLE

**G000**

SHEET



LEGEND:

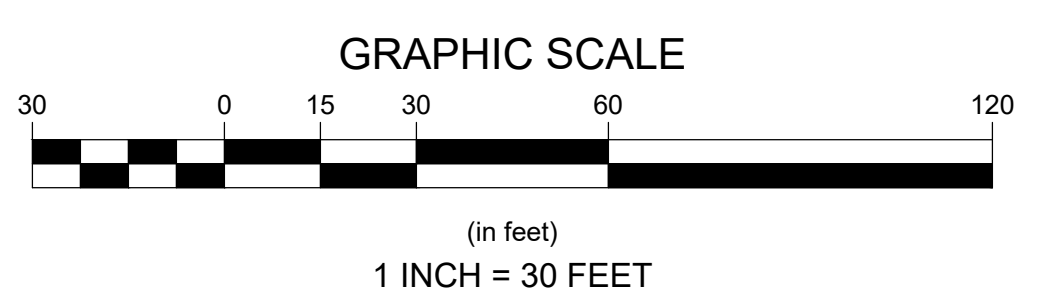
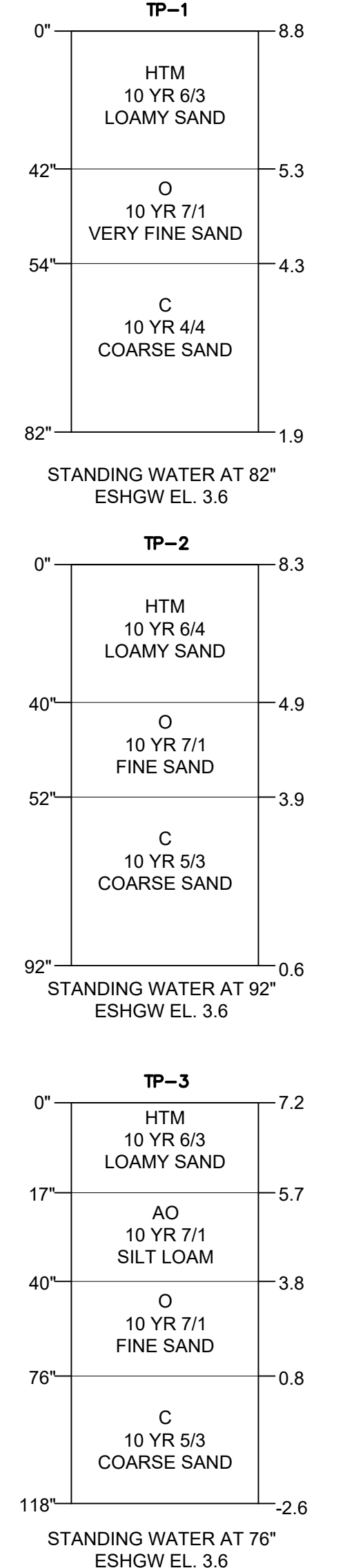
GENERAL		SYMBOLS	
[Symbol]	BERM	[Symbol]	BENCHMARK
[Symbol]	BERM CUT	[Symbol]	SPIGOT
[Symbol]	BUILDING	[Symbol]	CONTROL POINT
[Symbol]	CENTERLINE	[Symbol]	EXISTING SPOT GRADE
[Symbol]	CONTOUR - MINOR	[Symbol]	SPOT GRADE
[Symbol]	CONTOUR - MAJOR	[Symbol]	SEWER MANHOLE
[Symbol]	CURB	[Symbol]	ELECTRIC MANHOLE
[Symbol]	CURB CUT	[Symbol]	EXISTING TREE
[Symbol]	EDGE OF PAVEMENT	[Symbol]	MANHOLE
[Symbol]	EDGE OF GRAVEL	[Symbol]	DRAIN MANHOLE
[Symbol]	FENCE - CHAIN LINK	[Symbol]	CATCHBASIN
[Symbol]	FENCE - WIRE	[Symbol]	FLARED END OUTLET
[Symbol]	FENCE - WOOD	[Symbol]	STONE APRON
[Symbol]	GUARD RAIL	[Symbol]	WATER VALVE
[Symbol]	PATHWAY	[Symbol]	SEWER VALVE
[Symbol]	EDGE OF STONE	[Symbol]	GAS VALVE
[Symbol]	SIDEWALK	[Symbol]	CURB STOP
[Symbol]	TREE LINE	[Symbol]	CLEAN OUT
[Symbol]	WALL - RETAINING	[Symbol]	UTILITY BOX
[Symbol]	WALL - STONE	[Symbol]	HYDRANT
PROPERTY INFORMATION		[Symbol]	UTILITY POLE WIGUY
[Symbol]	ABUTTING LOT	[Symbol]	UTILITY POLE
[Symbol]	EASEMENT LINE	[Symbol]	GUY
[Symbol]	PROPERTY, LOT, OR ROW	[Symbol]	LIGHT POST
[Symbol]	SETBACK LINE	[Symbol]	MONITORING WELL
UTILITIES		[Symbol]	WATER WELL
[Symbol]	DRAIN PIPE	[Symbol]	TEST PIT
[Symbol]	GAS LINE	[Symbol]	BORING
[Symbol]	OVERHEAD WIRE	[Symbol]	RESOURCE AREA FLAG
[Symbol]	SANITARY SEWER	[Symbol]	ROCK
[Symbol]	SEWER FORCE MAIN	[Symbol]	SIGN
[Symbol]	UNDERGROUND E/T/C	[Symbol]	HANDICAP SYMBOL
[Symbol]	UNDERGROUND ELEC.	[Symbol]	NUMBER OF PARKING SPACES
[Symbol]	CABLE LINE	[Symbol]	INVASIVE SPECIES
[Symbol]	TELEPHONE LINE	ENVIRONMENTAL	
[Symbol]	WATER LINE	[Symbol]	WETLAND BOUNDARY
[Symbol]		[Symbol]	WETLAND 50 BUFFER
[Symbol]		[Symbol]	WETLAND 100 BUFFER
[Symbol]		[Symbol]	RIVERFRONT 200 BUFFER
[Symbol]		[Symbol]	NHESP RARE SPECIES HABITAT
[Symbol]		[Symbol]	BARRIER BEACH
[Symbol]		[Symbol]	FILLED TIDELANDS
[Symbol]		[Symbol]	FEMA FLOOD ZONE
ENVIRONMENTAL		[Symbol]	ABBREVIATIONS
[Symbol]	CD= COASTAL DUNES	[Symbol]	
[Symbol]	TF= TIDAL FLATS	[Symbol]	
[Symbol]	SM= SALT MARSH	[Symbol]	
[Symbol]	FAJA= INVASIVE JAPANESE KNOTWEED	[Symbol]	
[Symbol]	CEST= INVASIVE SPOTTED KNAPWEED	[Symbol]	
[Symbol]	ROPS= INVASIVE BLACK LOCUST	[Symbol]	



- SURVEY NOTES**
1. THE TOPOGRAPHY AND EXISTING SITE CONDITIONS DEPICTED HEREON ARE THE RESULT OF AN ON THE GROUND FIELD SURVEY CONDUCTED BY THE HORSLEY WITTEN GROUP, INC. JULY 24, 2020 AND JULY 30, 2020.
  2. HORIZONTAL DATUM IS MASS STATE PLANE COORDINATE SYSTEM, DATUM ESTABLISHED BY GPS-RTK.
  3. THE ELEVATIONS DEPICTED HEREON WERE BASED ON THE NORTH AMERICAN VERTICAL DATUM (NAVD) OF 1988.
  4. THE PROPERTY LINES AND RIGHTS OF WAYS DEPICTED HAVE BEEN ESTABLISHED BY FIELD SURVEY AND DEEDS AND PLANS OF RECORD.
  5. THE LOCATION AND/OR ELEVATION OF EXISTING UTILITIES AND STRUCTURES AS SHOWN ON THESE PLANS ARE BASED ON RECORDS OF VARIOUS UTILITY COMPANIES, AND WHEREVER POSSIBLE, MEASUREMENTS TAKEN IN THE FIELD. THIS INFORMATION IS NOT TO BE RELIED UPON AS BEING EXACT OR COMPLETE. THE LOCATION OF ALL UNDERGROUND UTILITIES AND STRUCTURES SHALL BE VERIFIED IN THE FIELD PRIOR TO THE START OF ANY CONSTRUCTION. THE CONTRACTOR MUST CONTACT THE APPROPRIATE UTILITY COMPANY, ANY GOVERNING PERMITTING AUTHORITY IN THE TOWN OF EASTHAM, AND "DIGSAFE" (1-888-344-7233) AT LEAST 72 HOURS PRIOR TO ANY EXCAVATION WORK IN PREVIOUSLY UNALTERED AREAS TO REQUEST EXACT FIELD LOCATION OF UTILITIES.
  6. THE PROPERTY IS LOCATED WITHIN F.I.R.M ZONE AE (EL. 14 FEET) AS SHOWN ON COMMUNITY PANEL NO. 29001G0417.J DATED JULY 16TH, 2014.
  7. THE WETLAND DELINEATION SHOWN HEREON WAS CONDUCTED BY THE HORSLEY WITTEN GROUP, INC. ON JULY 24, 2020.
  8. REFERENCE PLANS: BARNSTABLE COUNTY REGISTRY OF DEEDS LAND COURT PLAN #28883A.
  9. FILLED TIDELAND AREAS, NHESP RARE SPECIES HABITAT, BARRIER BEACH, AND FLOODZONE LINES SCALED FROM MASS GIS.

**SOIL TEST PIT DATA**

PERFORMED BY: M. LEHMAN HORSLEY WITTEN GROUP, INC.  
DATE: AUGUST 31, 2020.



725 GREENWICH ST STE 300  
SAN FRANCISCO CA 94133  
32A MAIN ST STE 2  
FRANKLIN, MA 02038  
TEL : 415 - 544 - 9880  
WWW.KUTHRANIERI.COM

**Horsley Witten Group, Inc.**  
Sustainable Environmental Solutions  
www.horsleywitten.com  
90 Route 6A  
Sandwich, MA 02563  
508-833-6600 voice  
508-833-3150 fax

**Rock Harbor Harbormaster Building and Site Revitalization**  
631 Dyer Prince Road  
Eastham, MA 02642

Town of Eastham OWNER  
19-120-0 APR

NOT FOR CONSTRUCTION

CONSERVATION SUBMISSION  
4/5/21



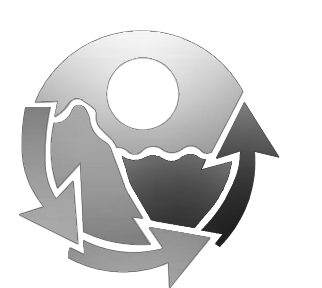
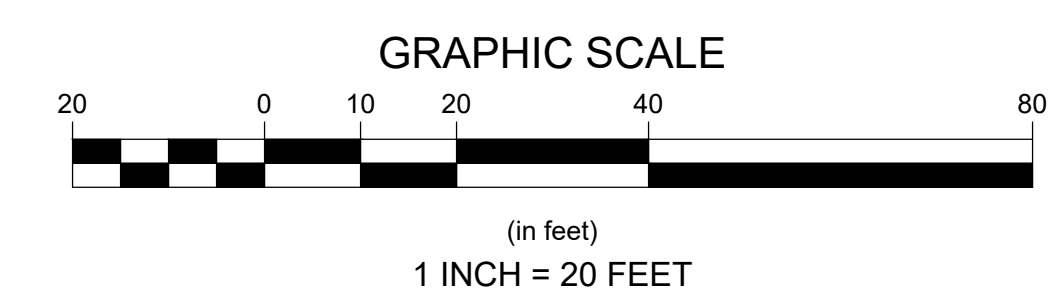
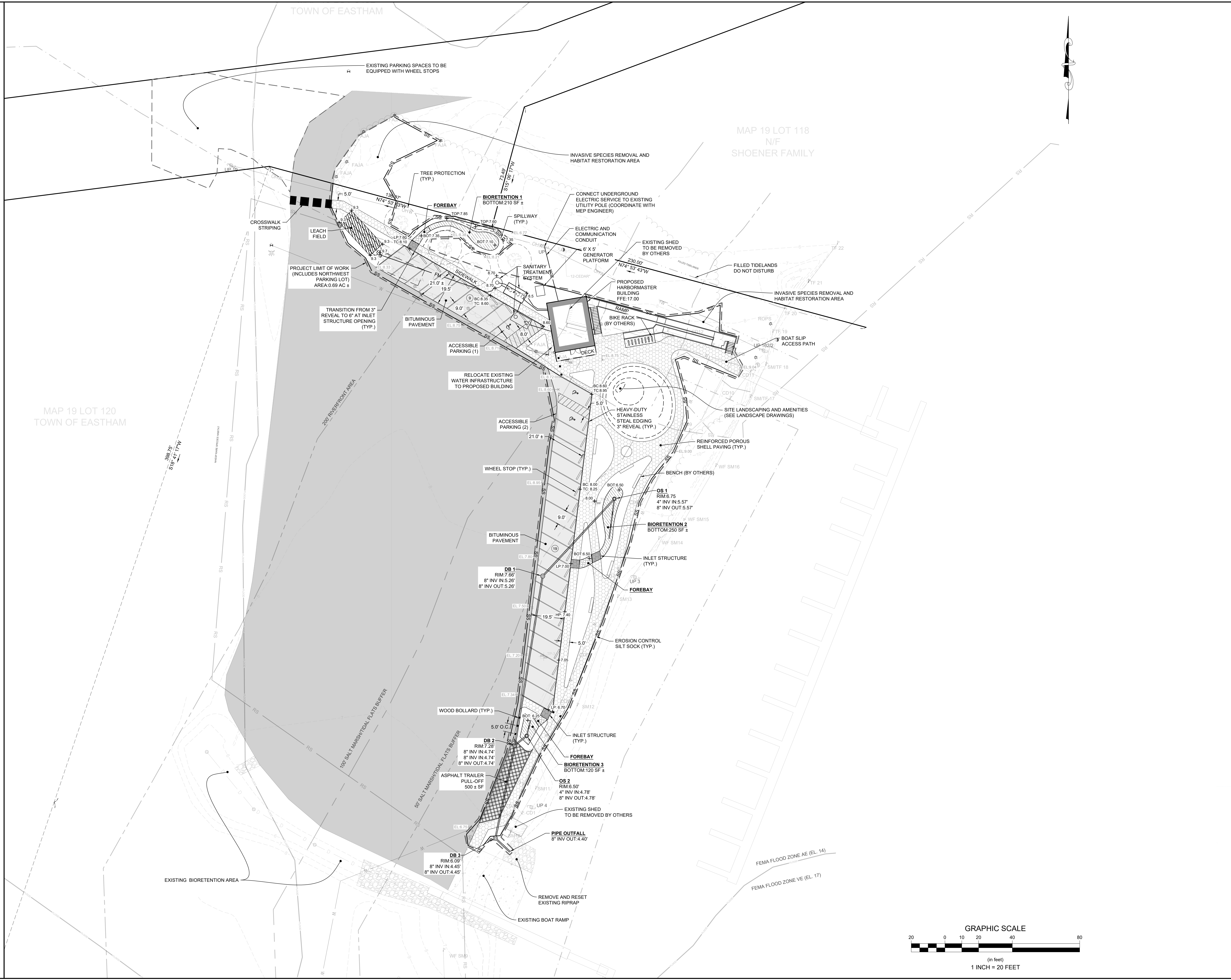
ISSUE DATE DESCRIPTION  
DRAWN BY: LE CHECKED BY: RM PROJECT #: 2003

EXISTING CONDITIONS

**C001**

NOTE: If this drawing is not on 24in x 36 in, it has been revised from its original size. Scales as noted on drawings/details are no longer applicable.  
3/22/2021 1:01 PM

NOTE: If this drawing is not on 30in x 42in, it has been revised from its original size. Scales as noted on drawings/details are no longer applicable.  
4/4/2021 12:59 PM



**Rock Harbor Harbormaster Building and Site  
Revitalization**

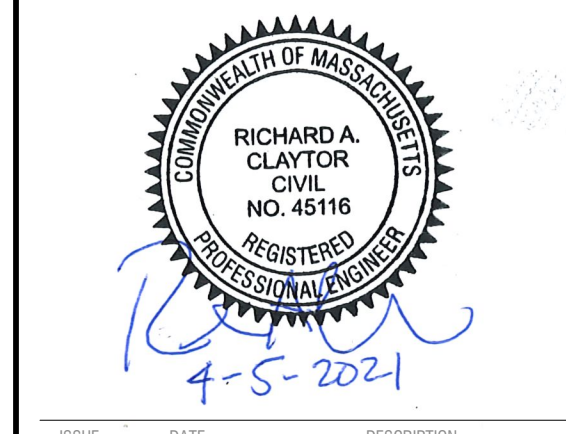
631 Dyer Prince Road  
Eastham, MA 02642

PROJECT INFORMATION

Town of Eastham	OWNER
APRIL	DATE

**NOT FOR  
CONSTRUCTION**

CONSERVATION  
SUBMISSION  
4/5/21



ISSUE	DATE	DESCRIPTION
DRAWN BY: ML	CHECKED BY: RAC	PROJECT #: 2003

CIVIL SITE PLAN

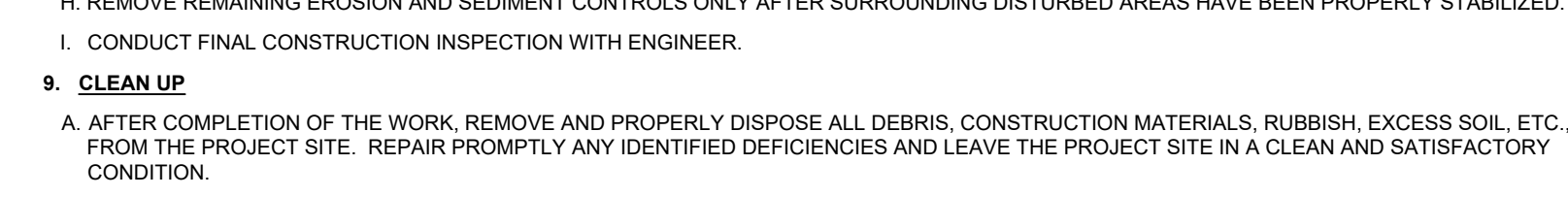
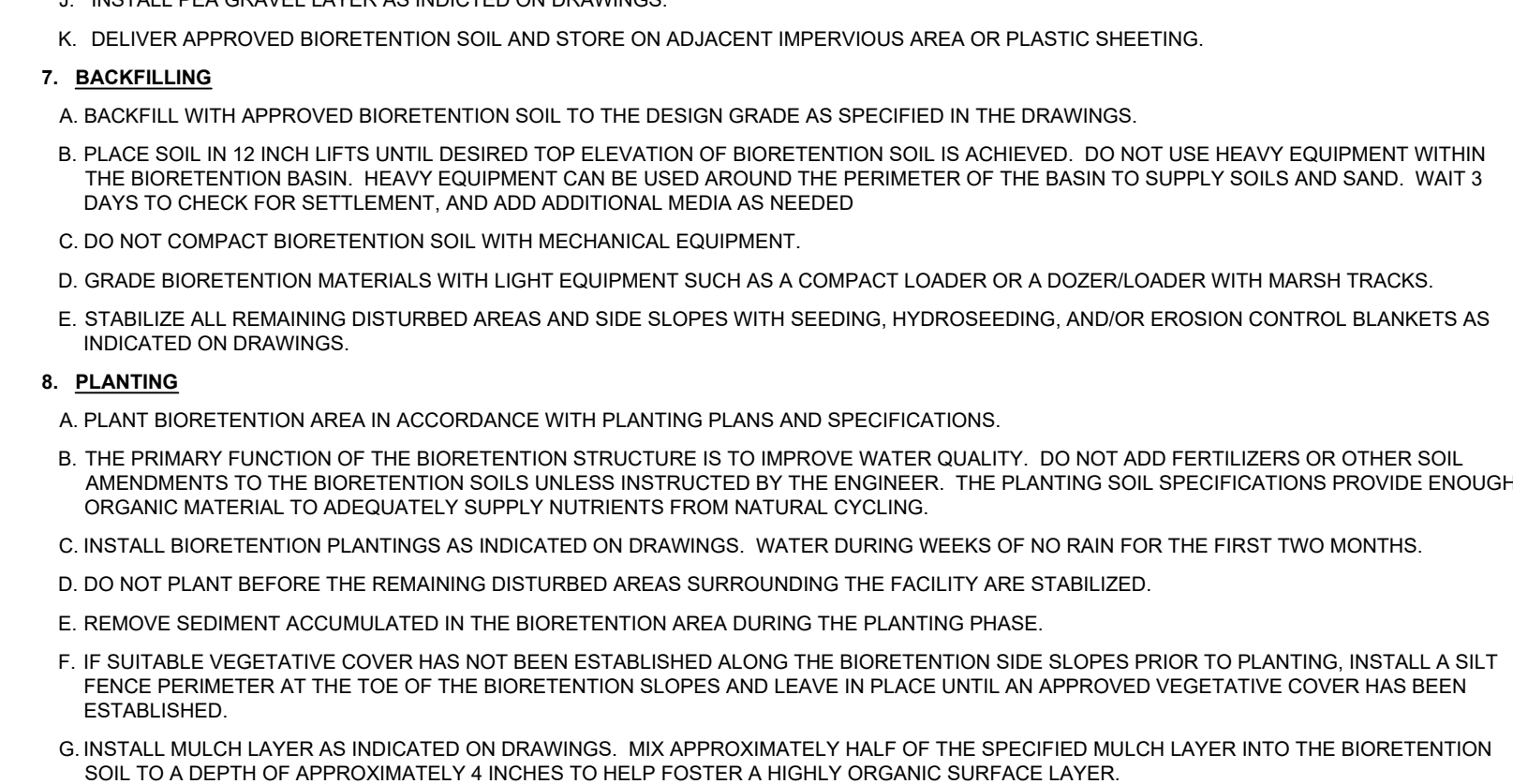
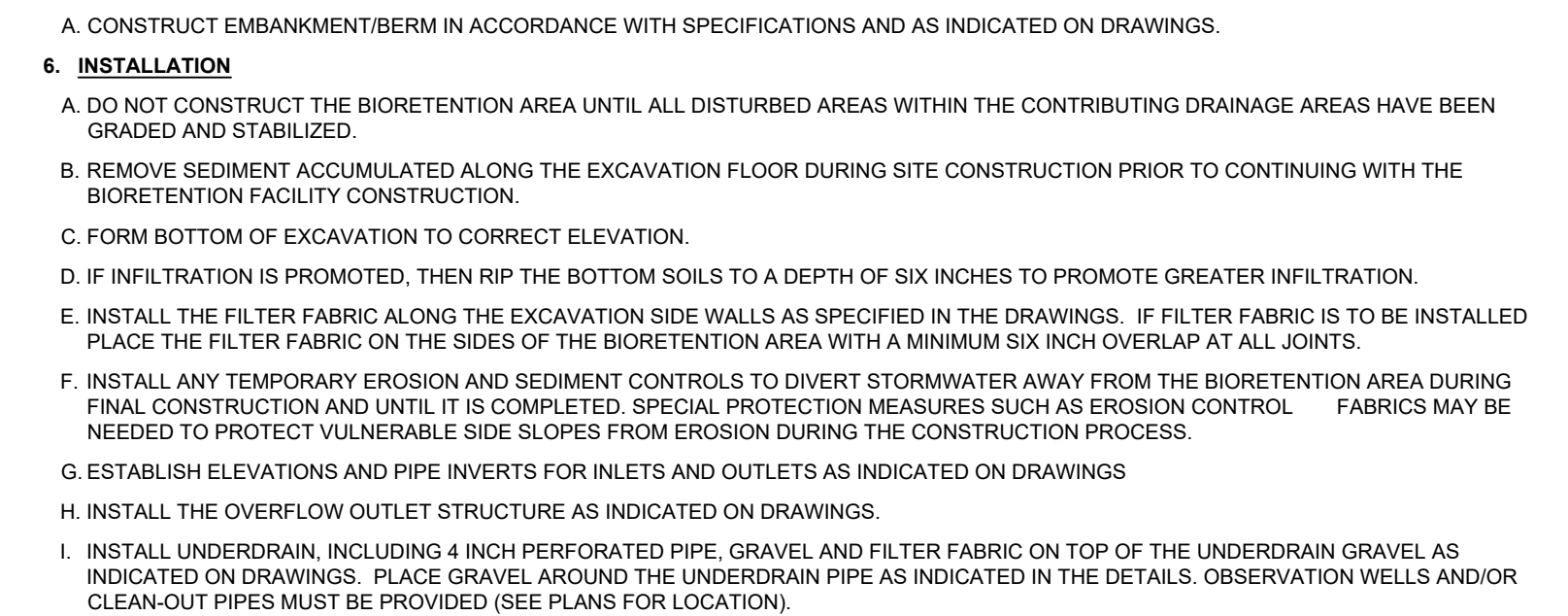
**BIORETENTION CONSTRUCTION SEQUENCE**

THE FOLLOWING CONSTRUCTION SEQUENCE IS TO BE USED AS A GENERAL GUIDELINE. COORDINATE WITH THE OWNER, ENGINEERS, AND LANDSCAPE ARCHITECTS AND SUBMIT A PROPOSED CONSTRUCTION SEQUENCE FOR REVIEW AND APPROVAL PRIOR TO CONSTRUCTION.

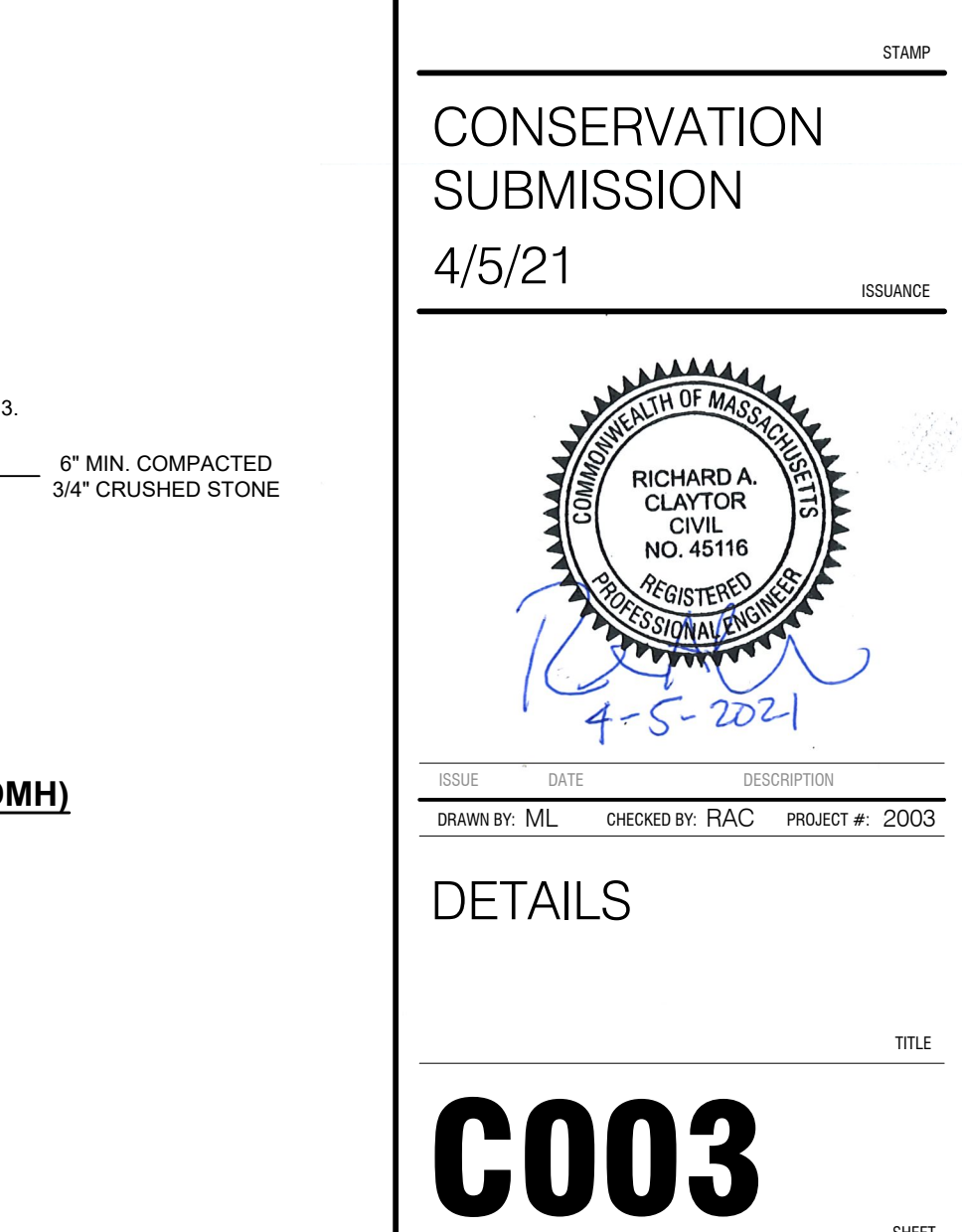
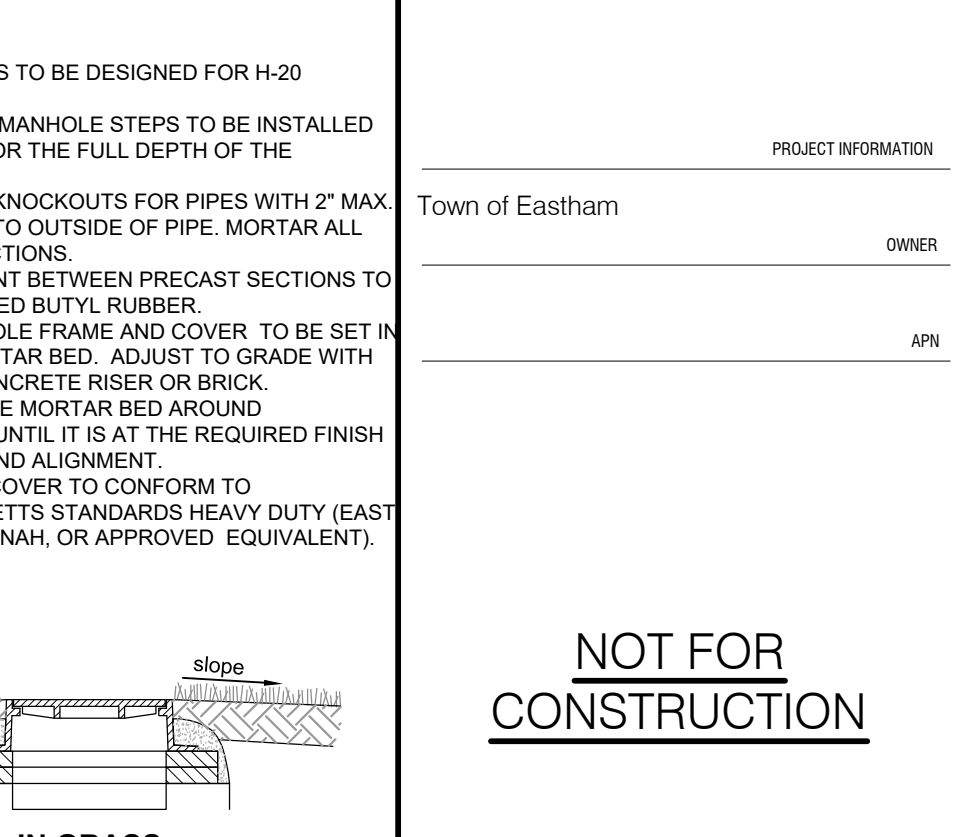
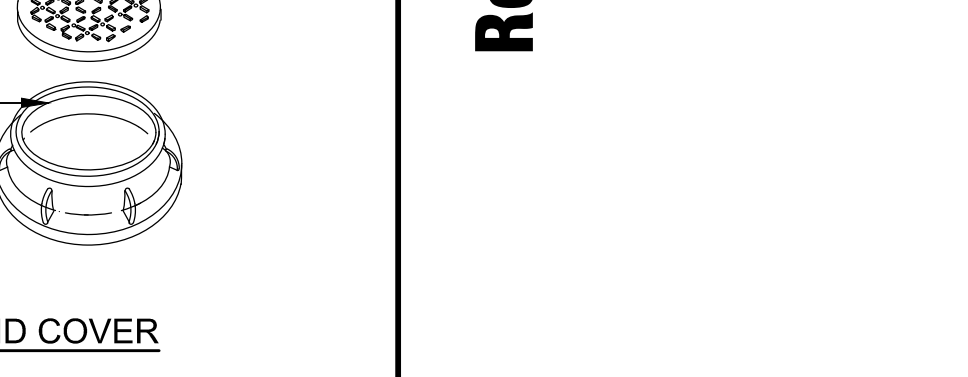
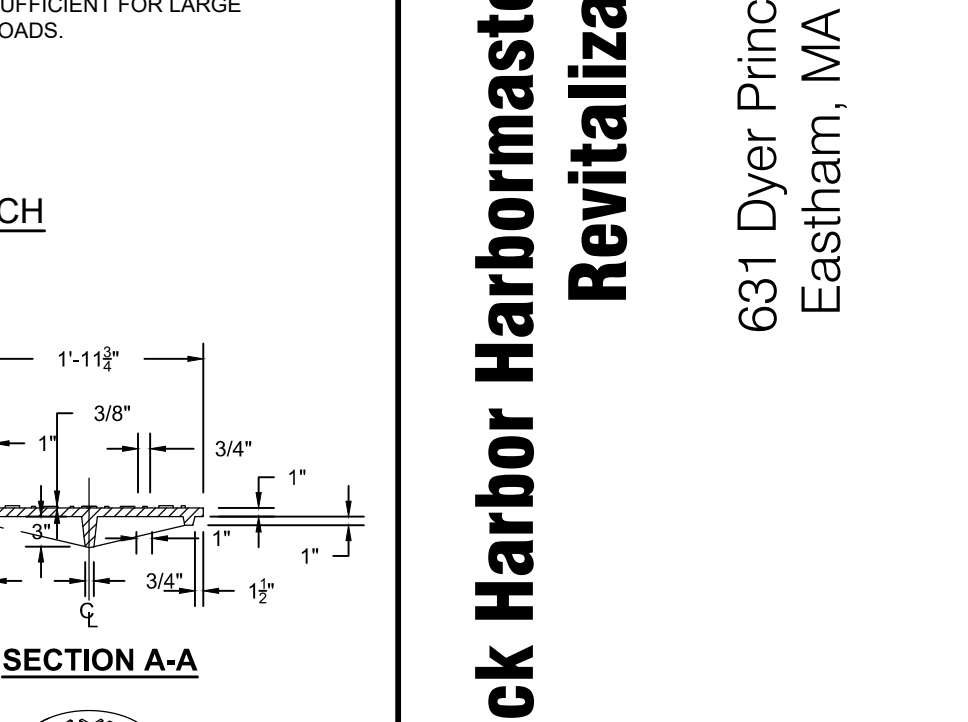
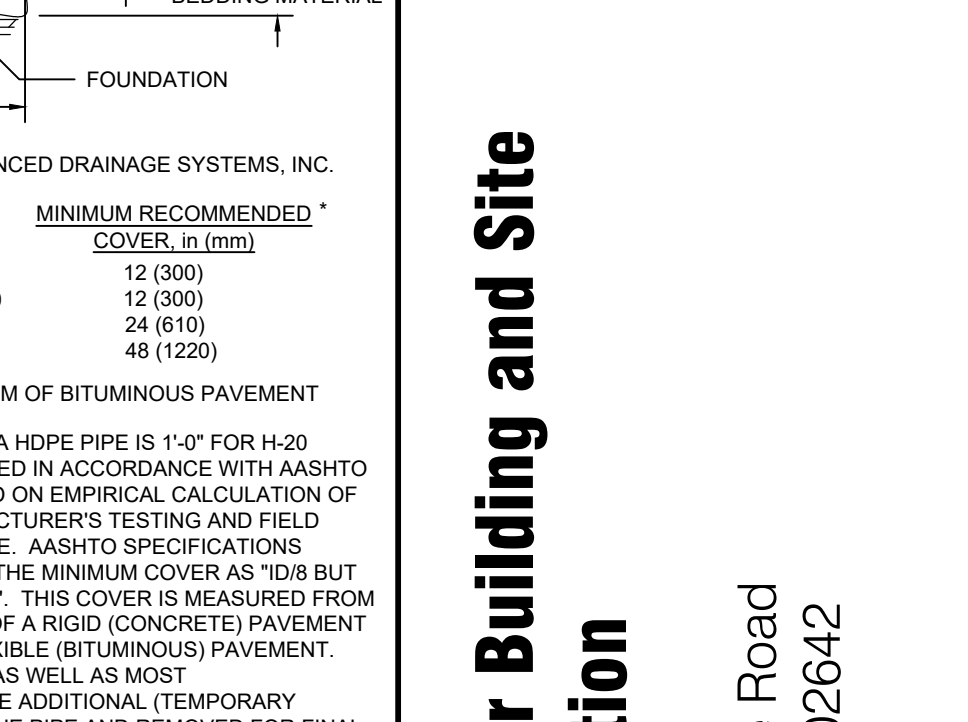
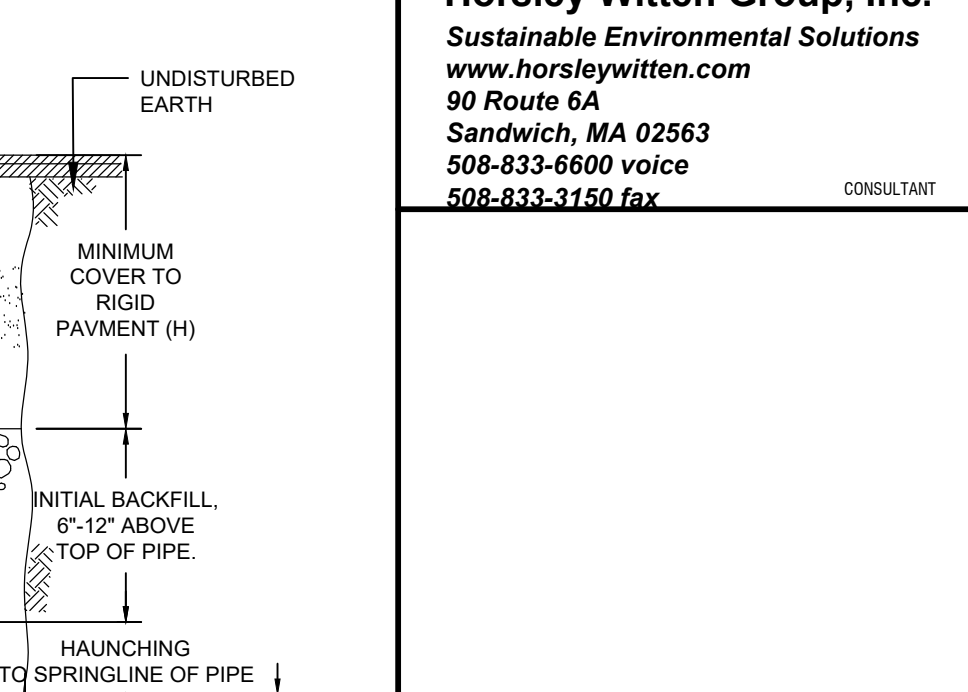
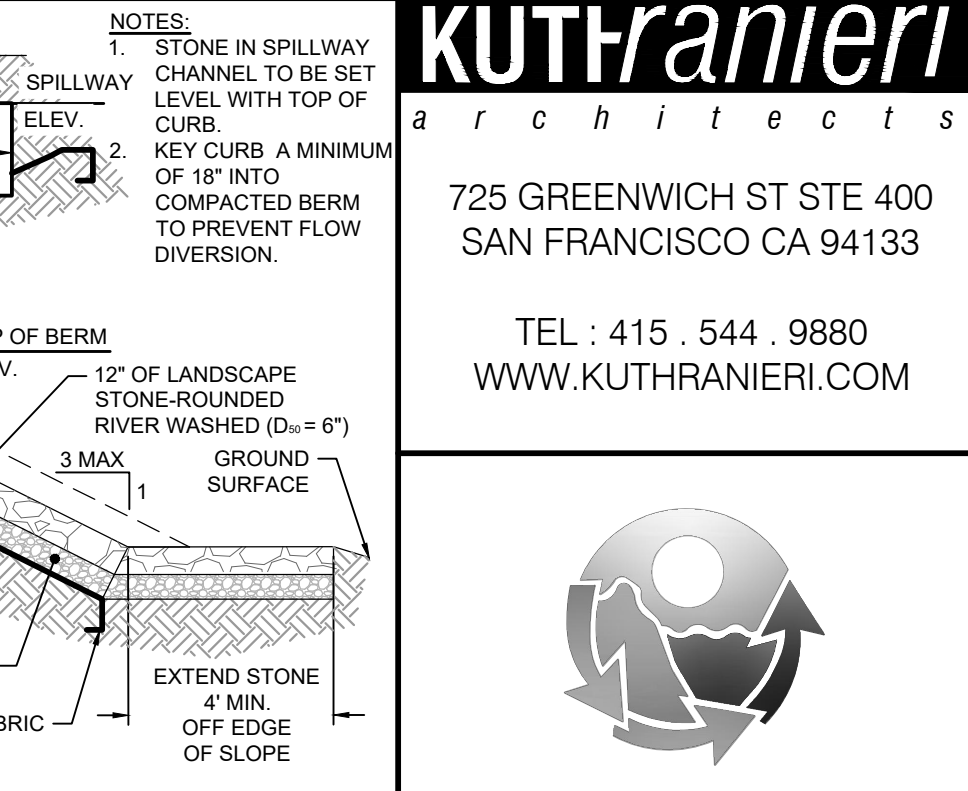
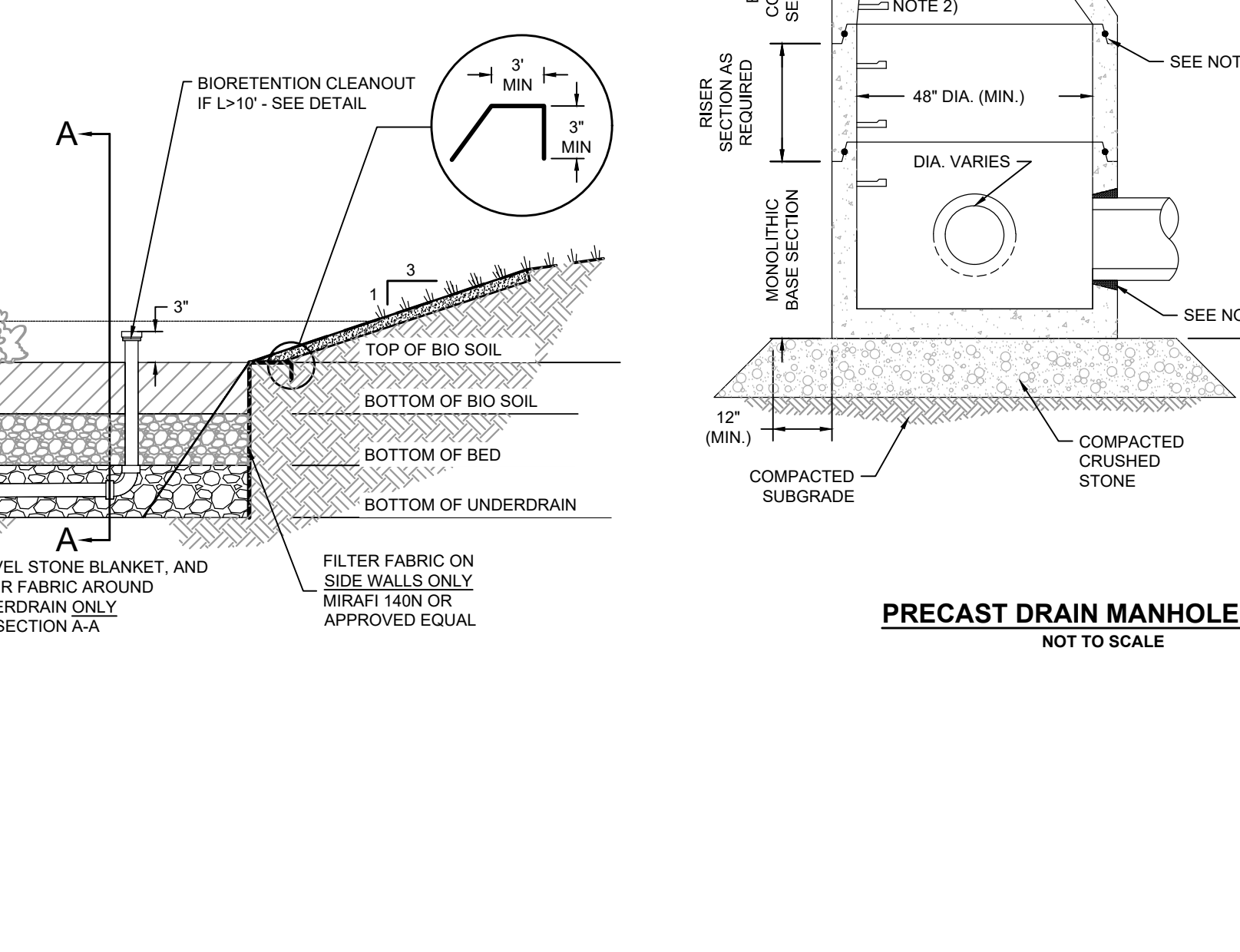
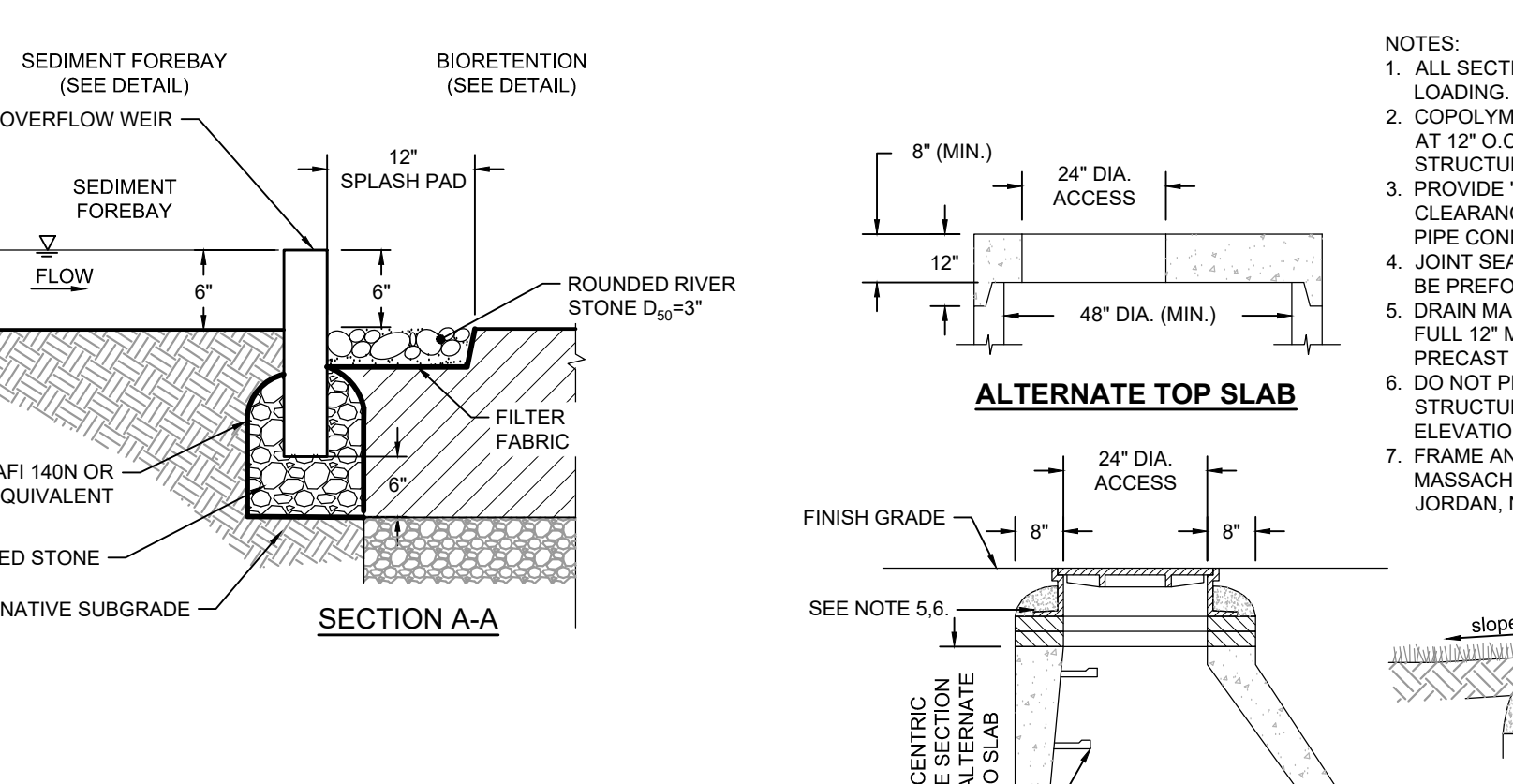
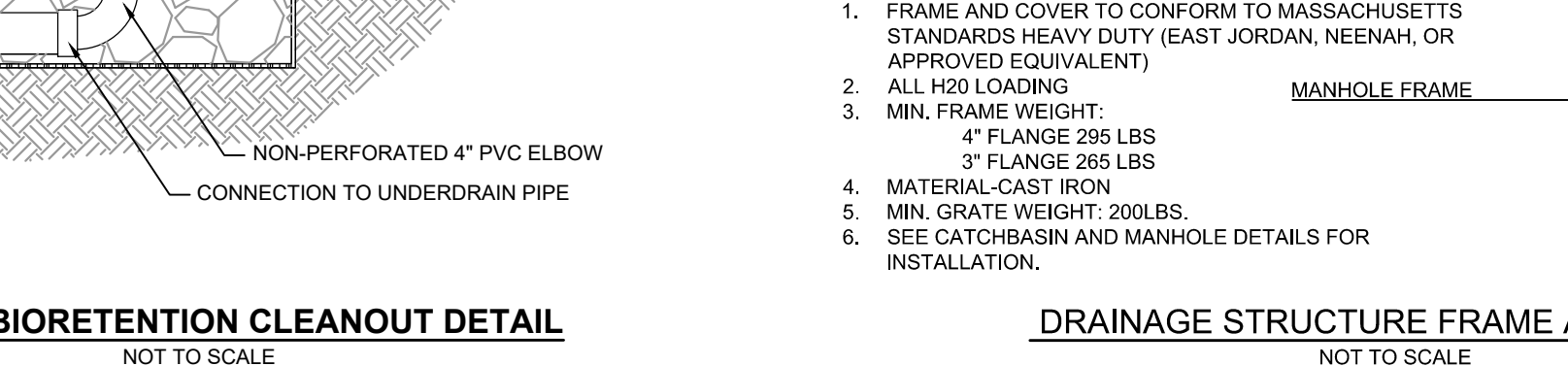
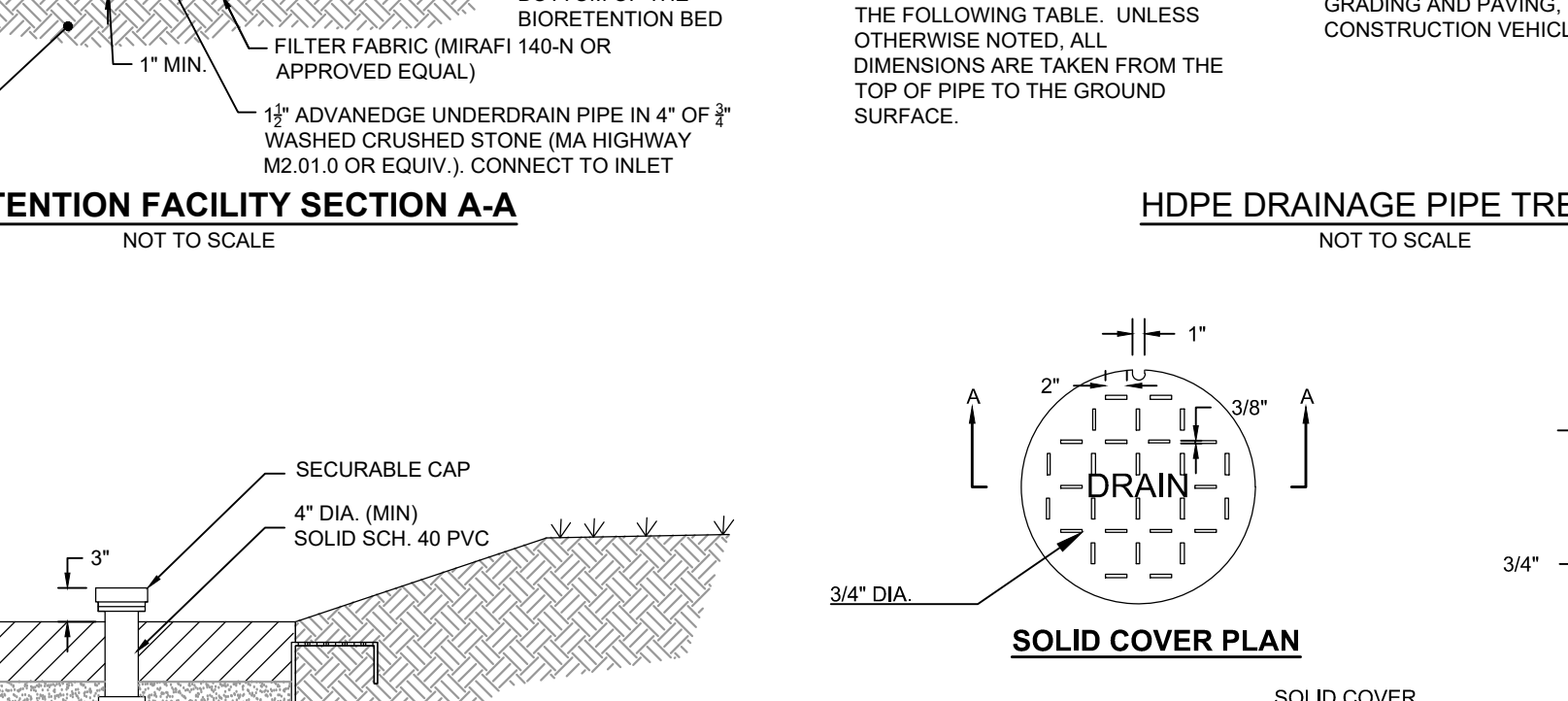
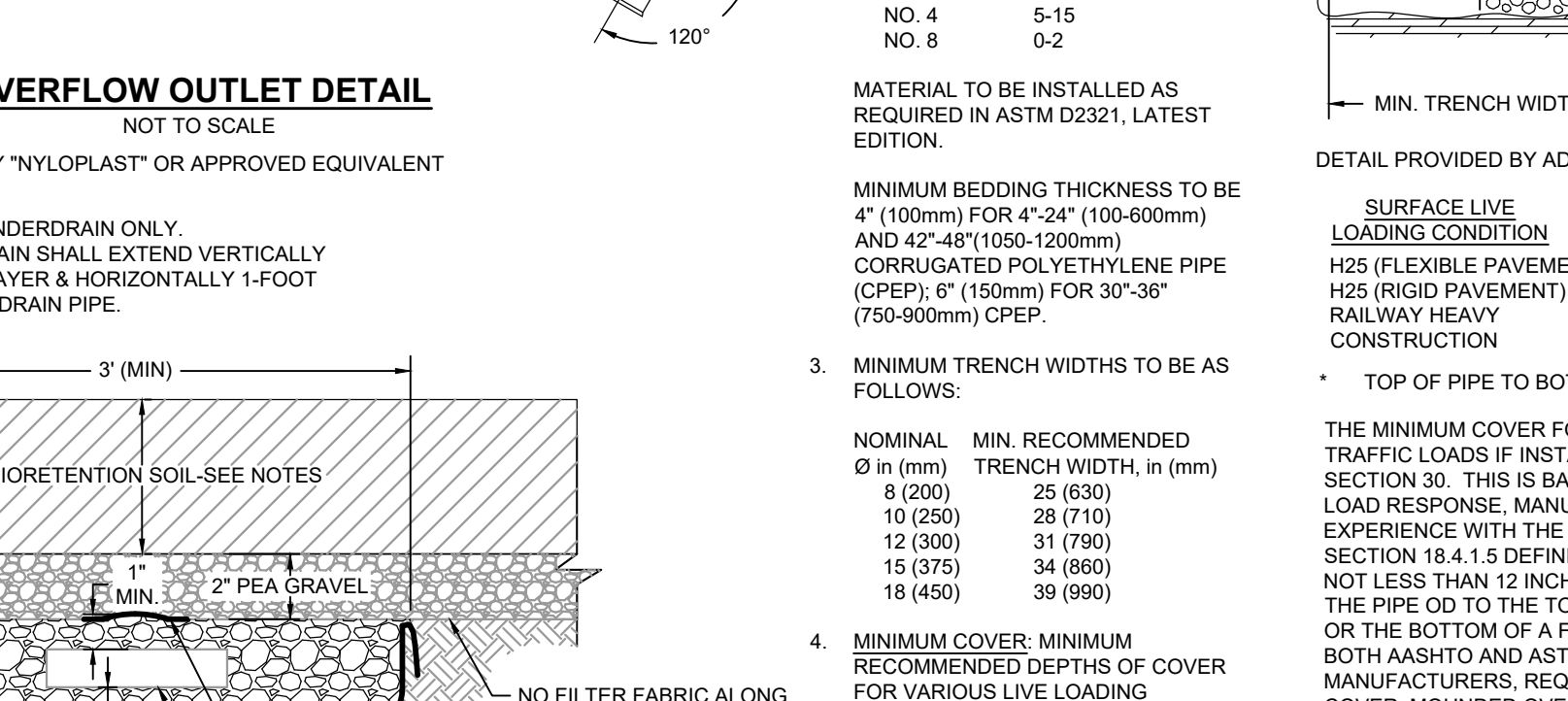
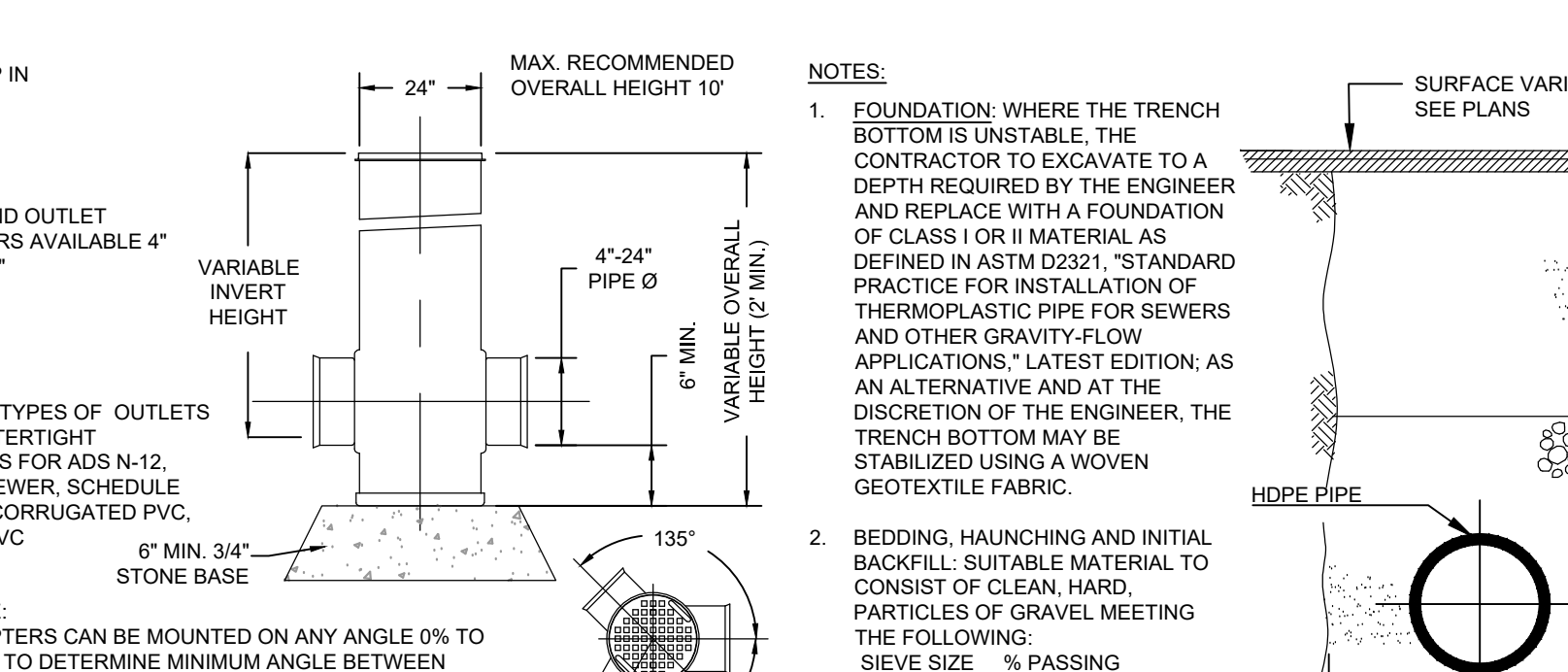
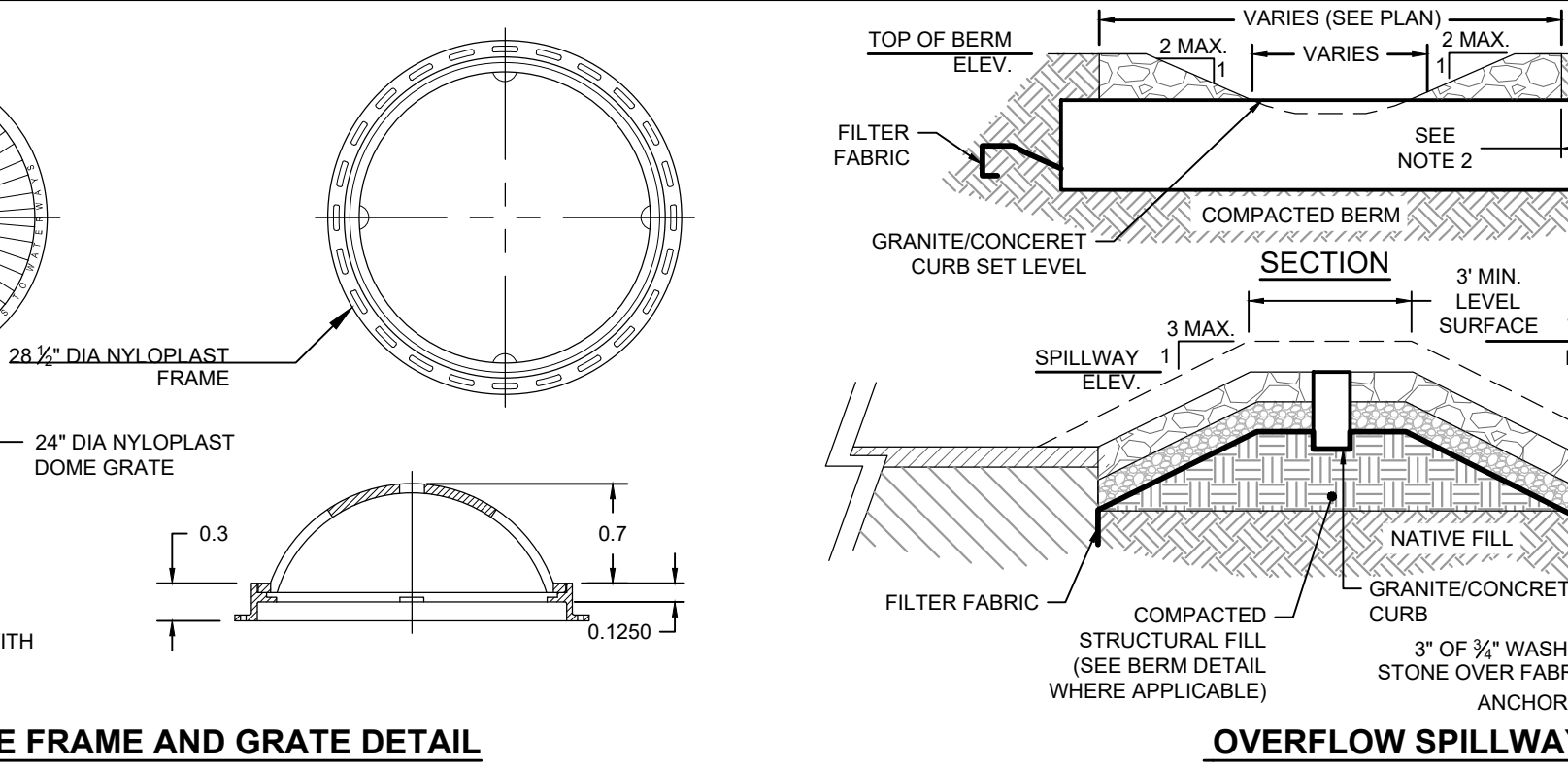
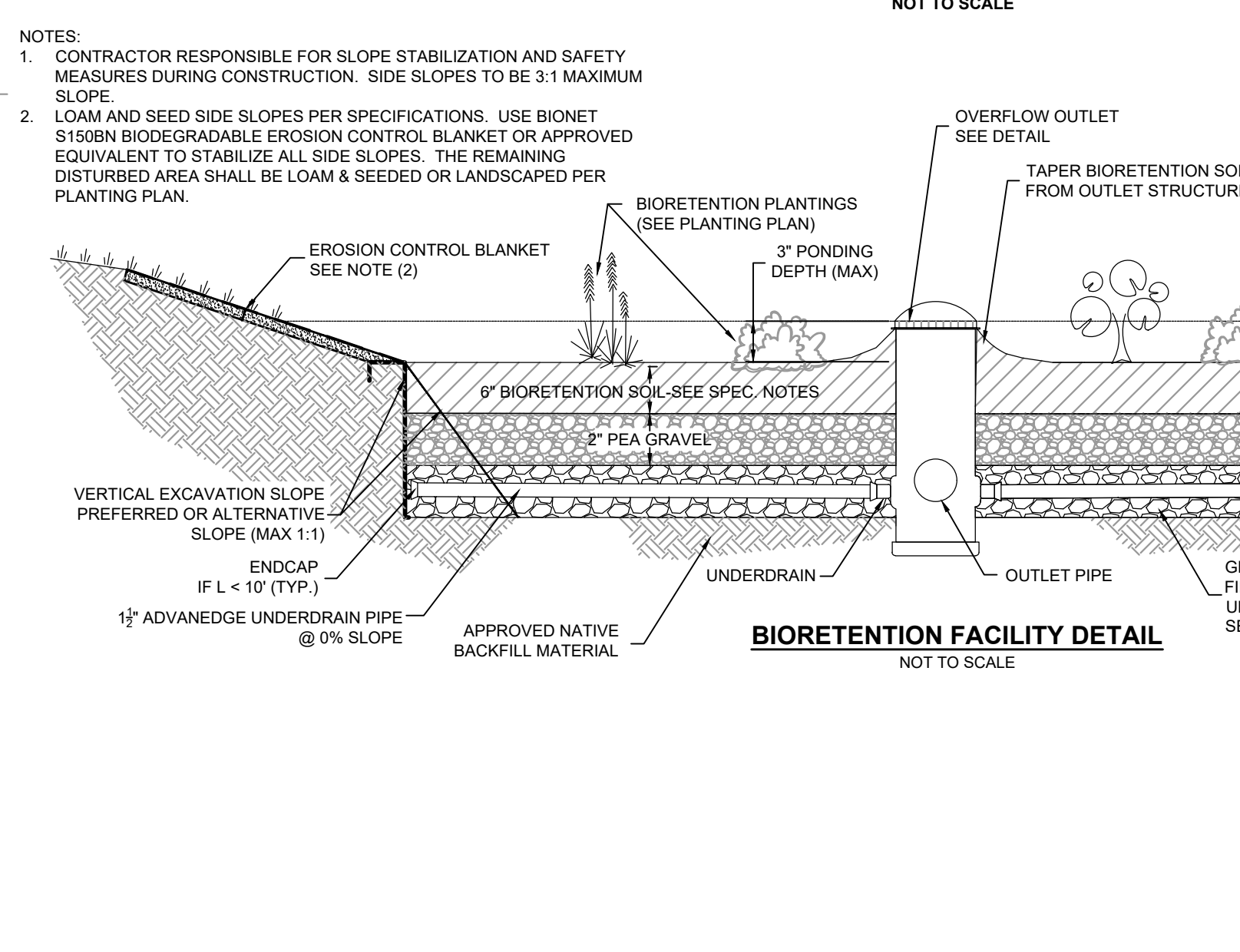
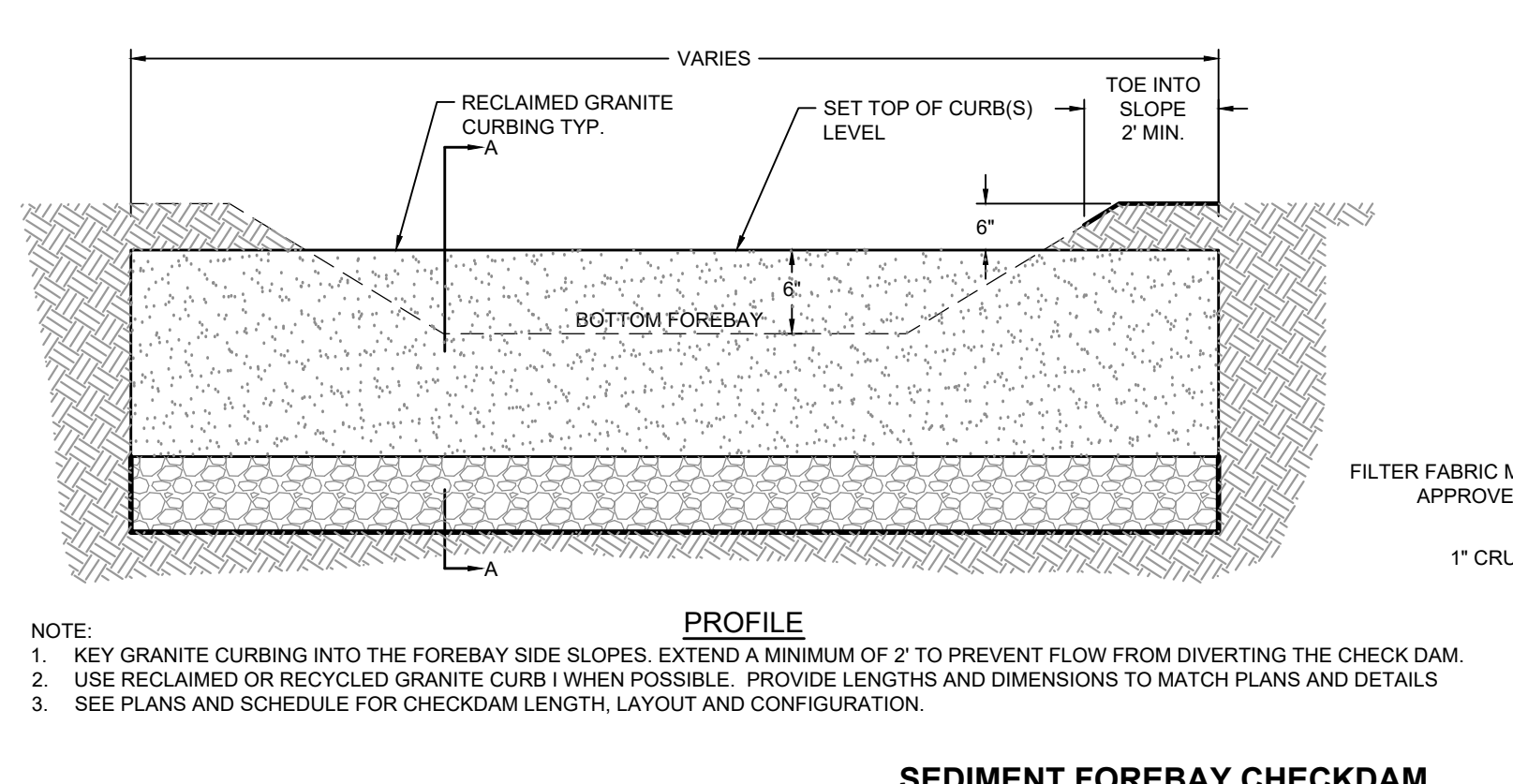
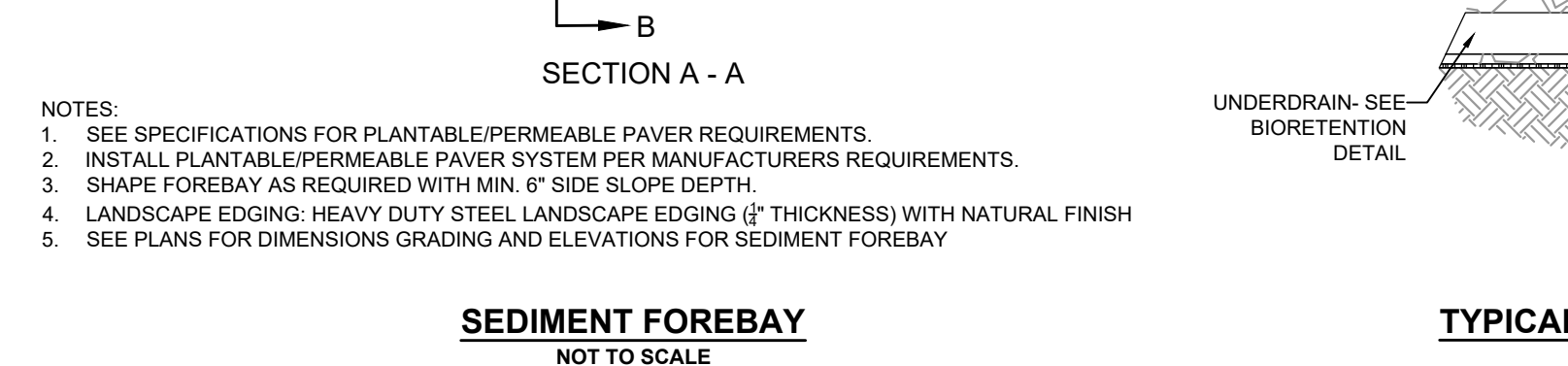
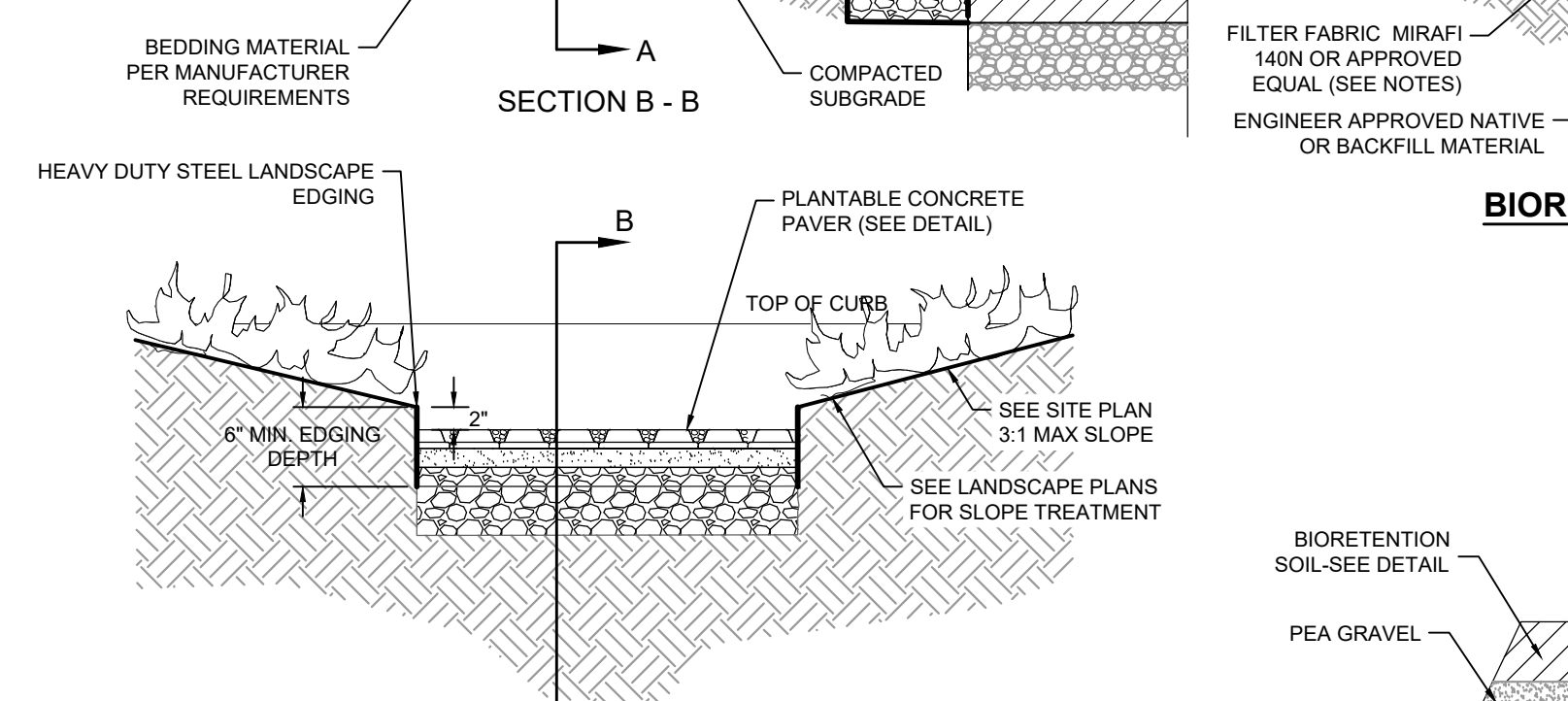
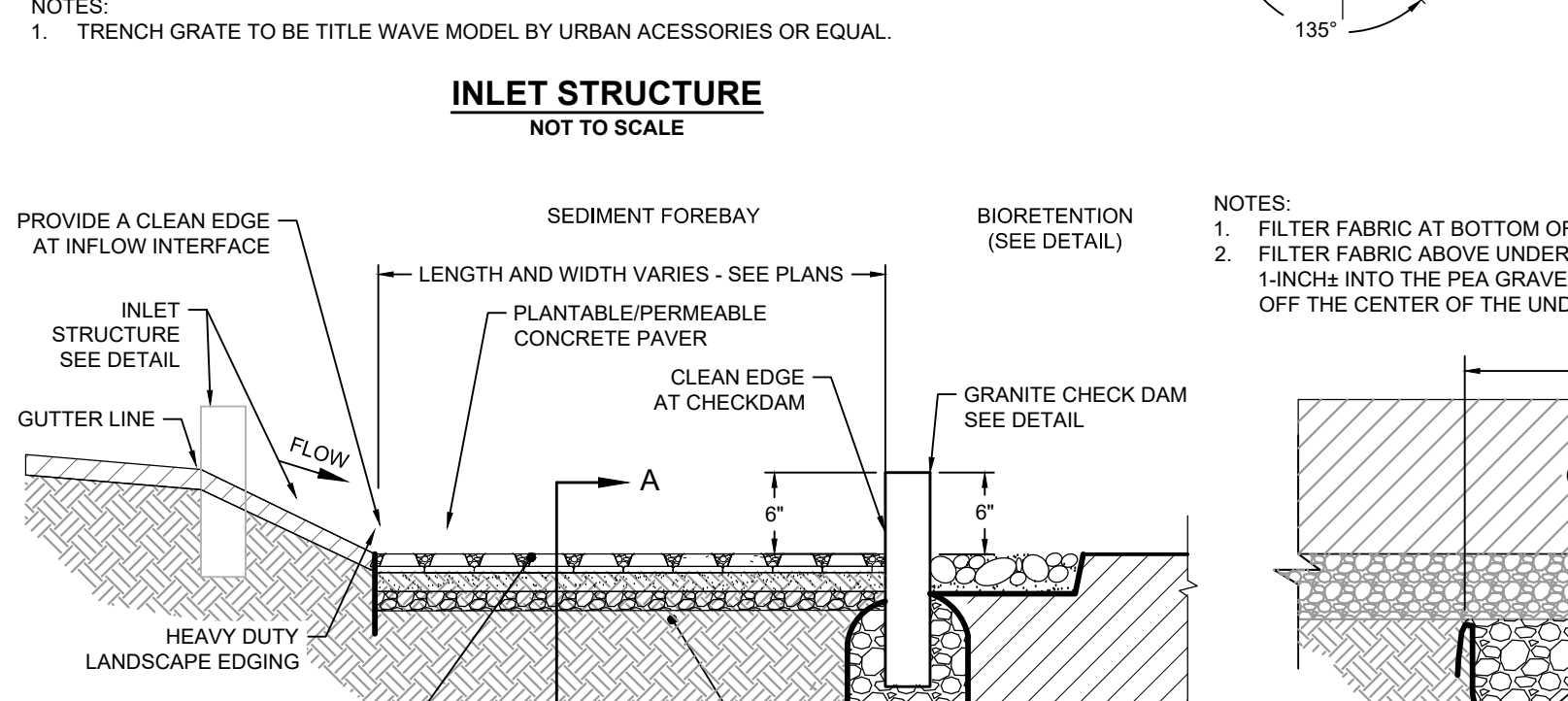
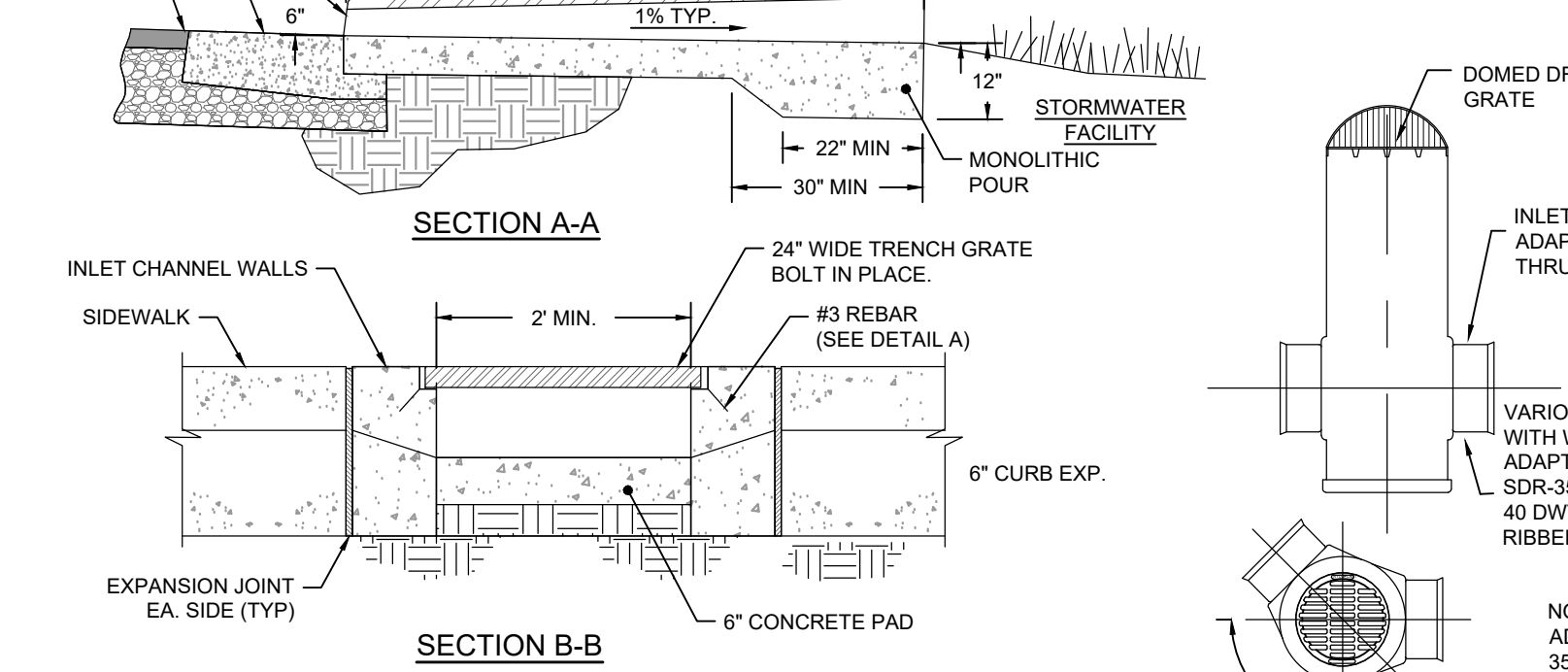
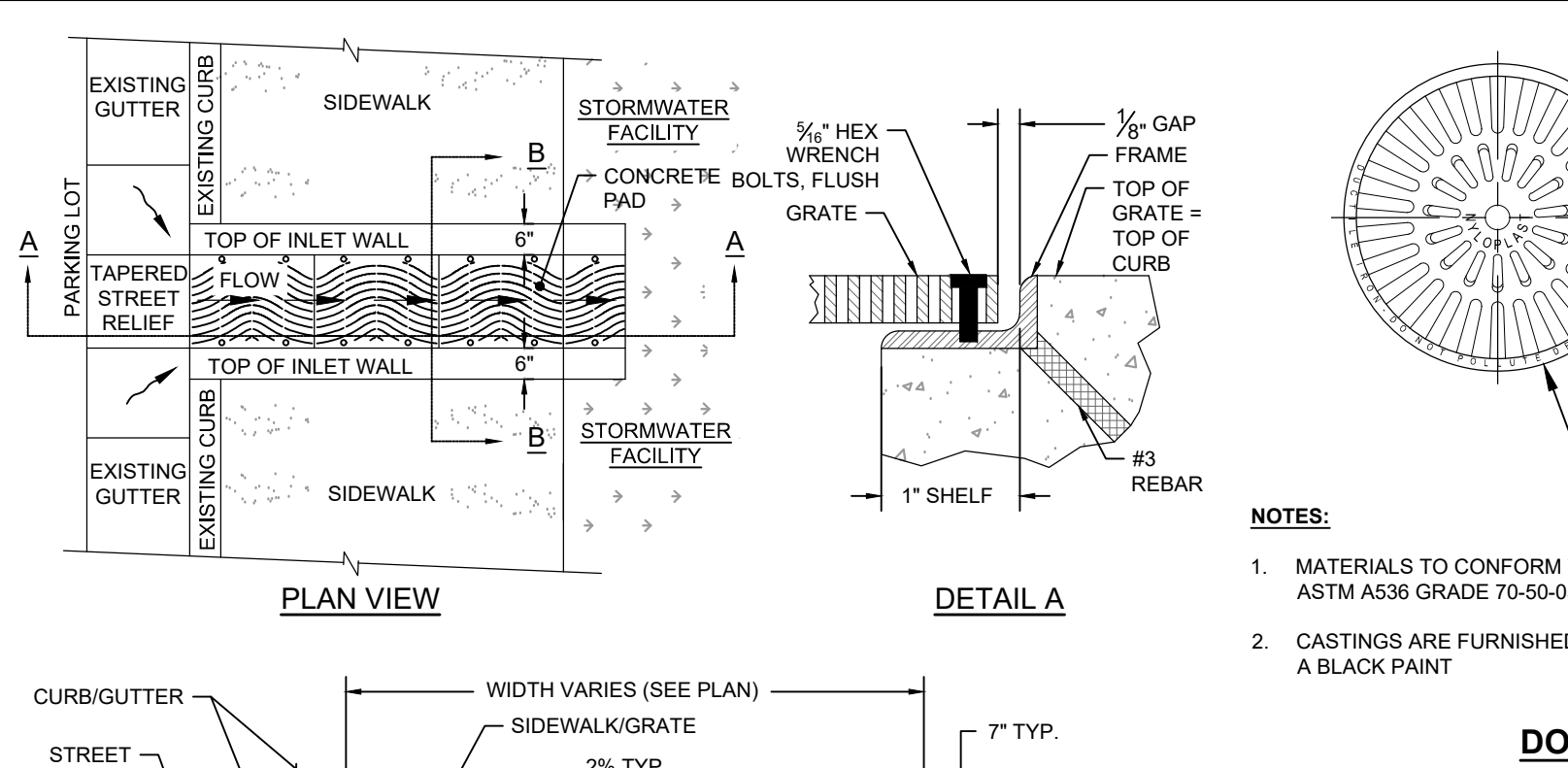
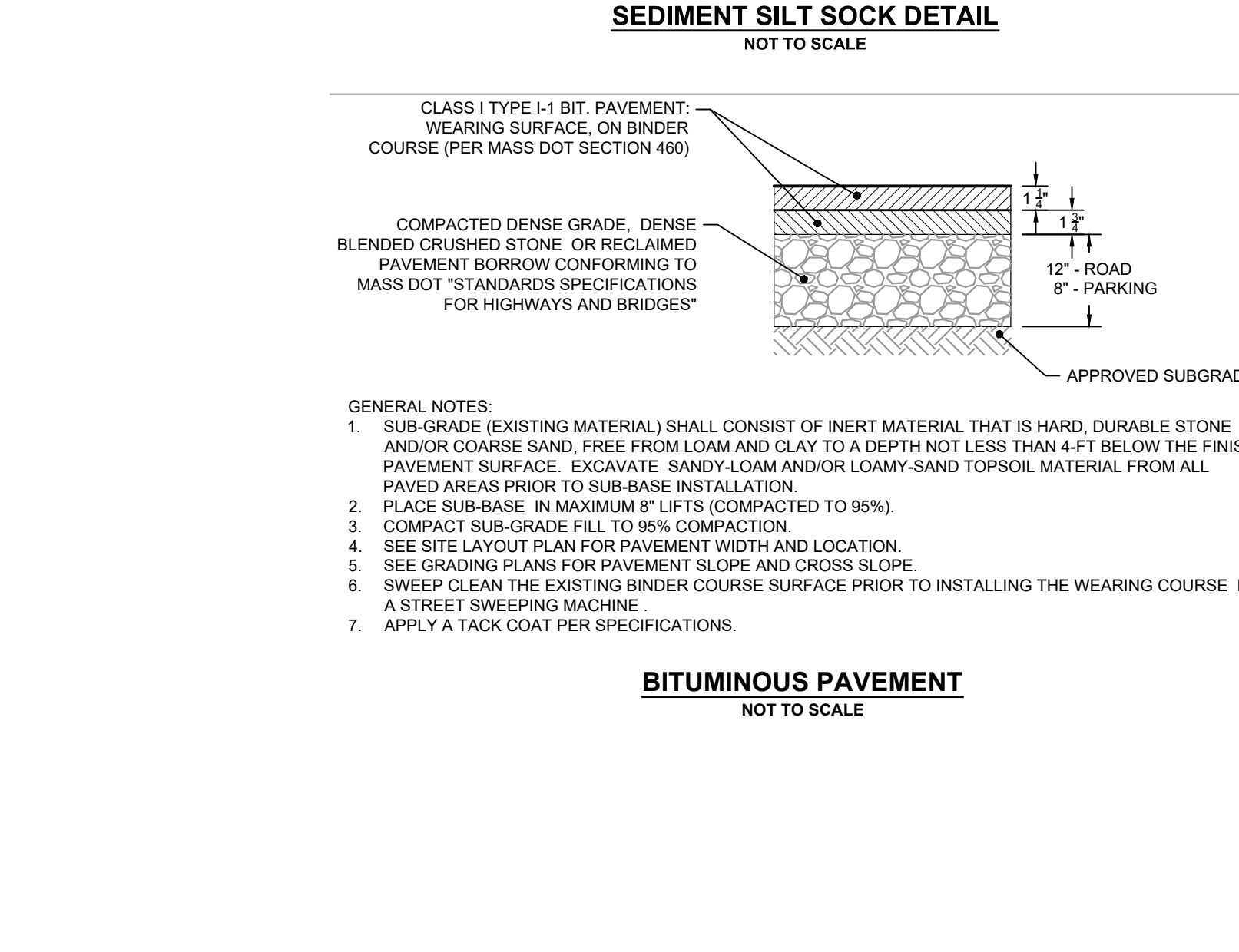
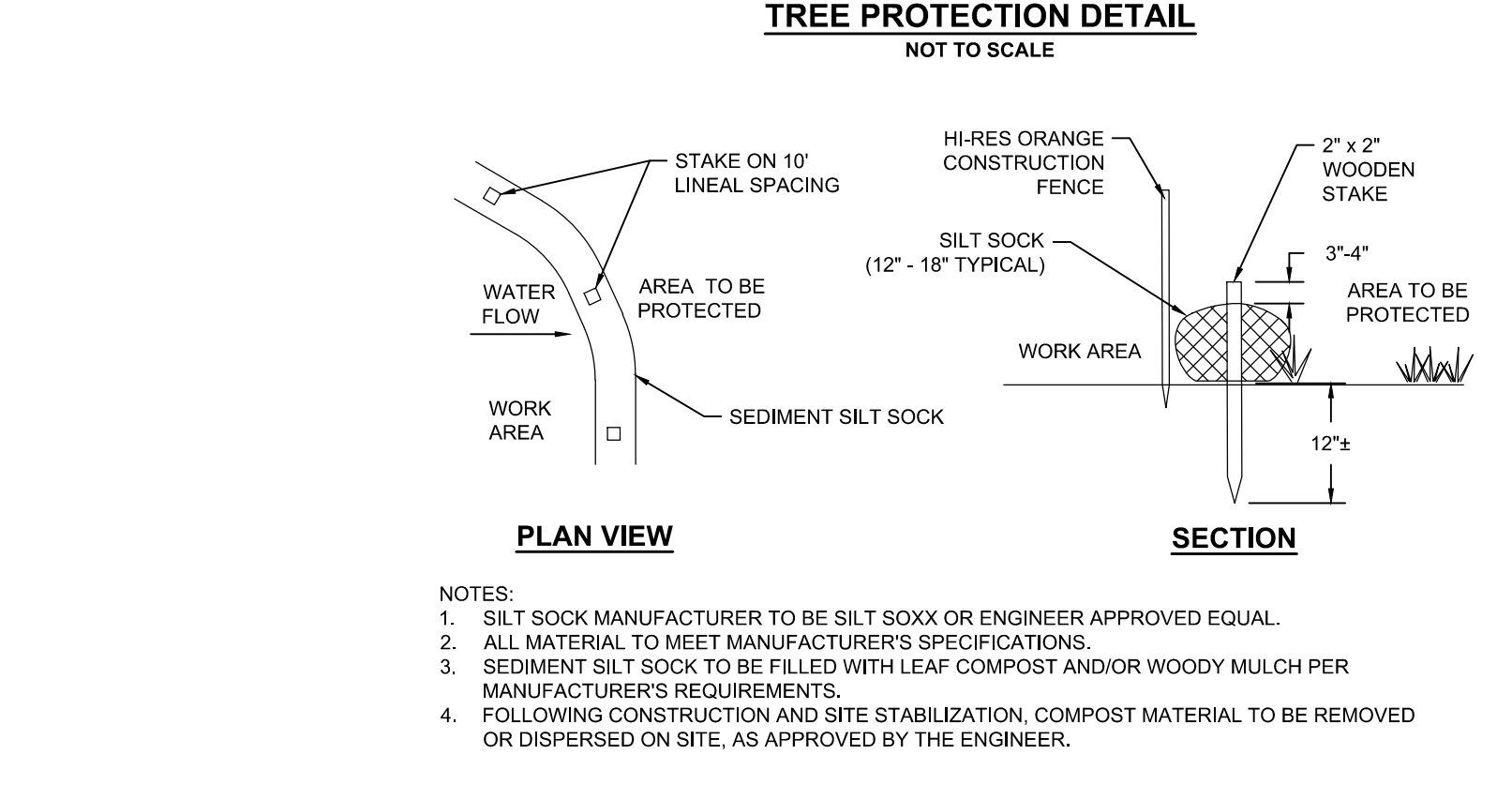
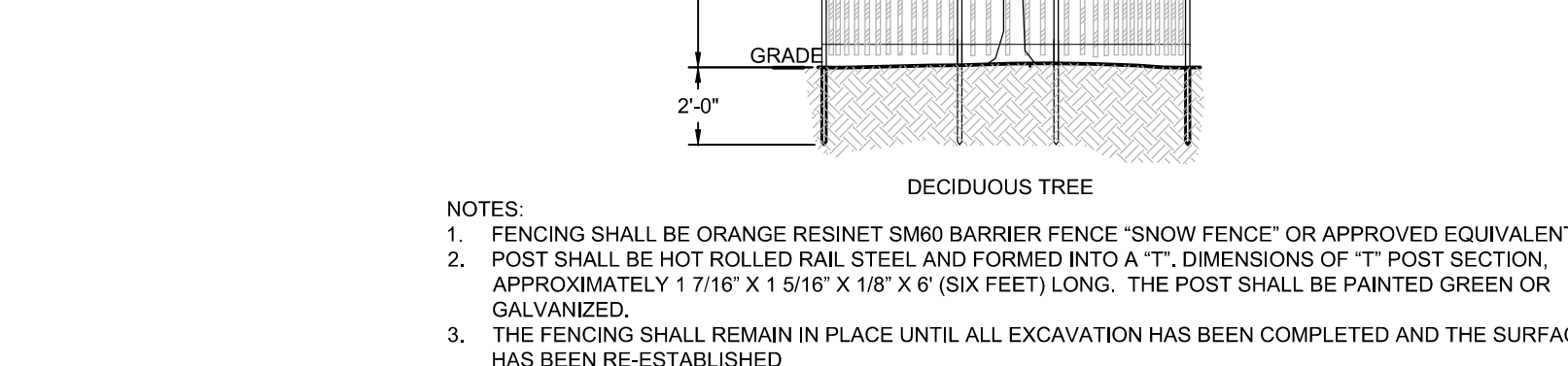
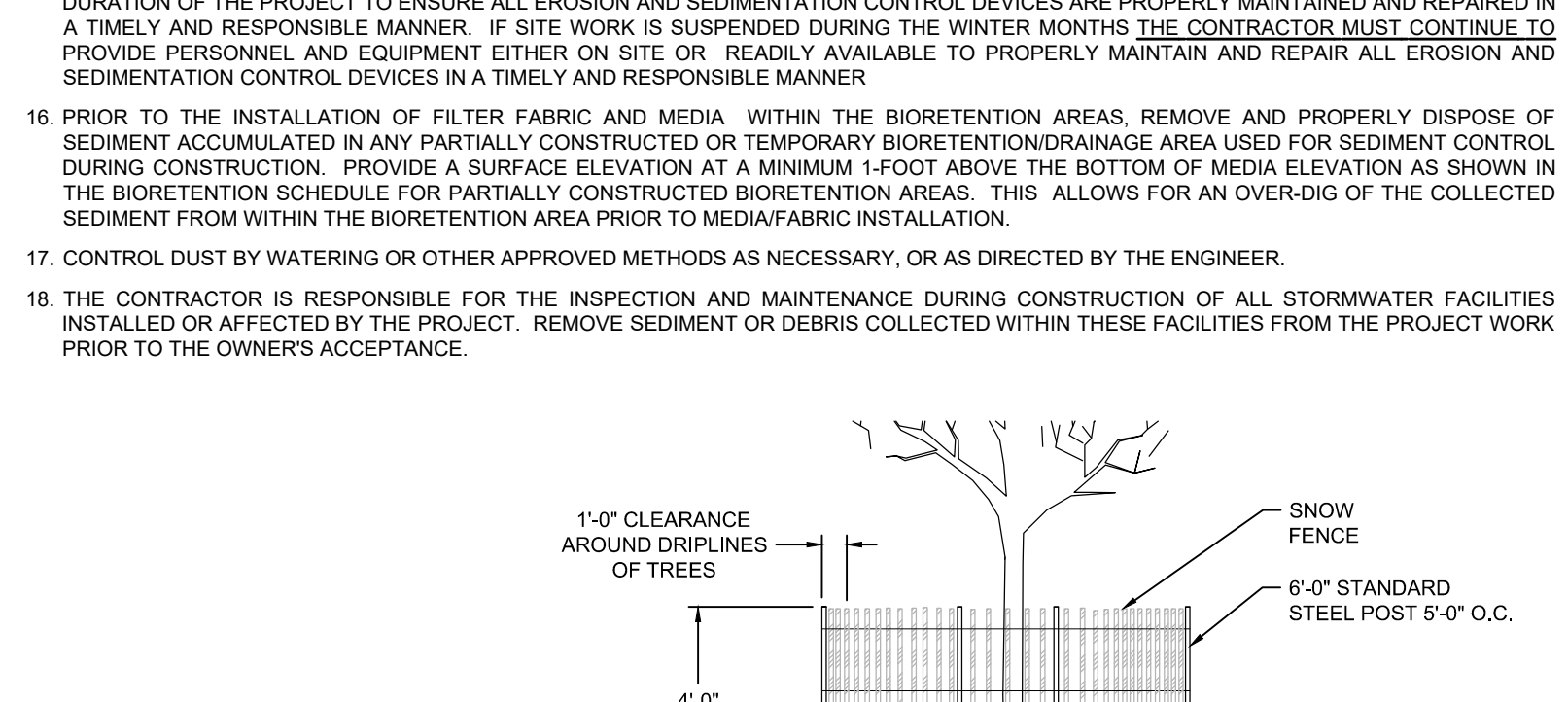
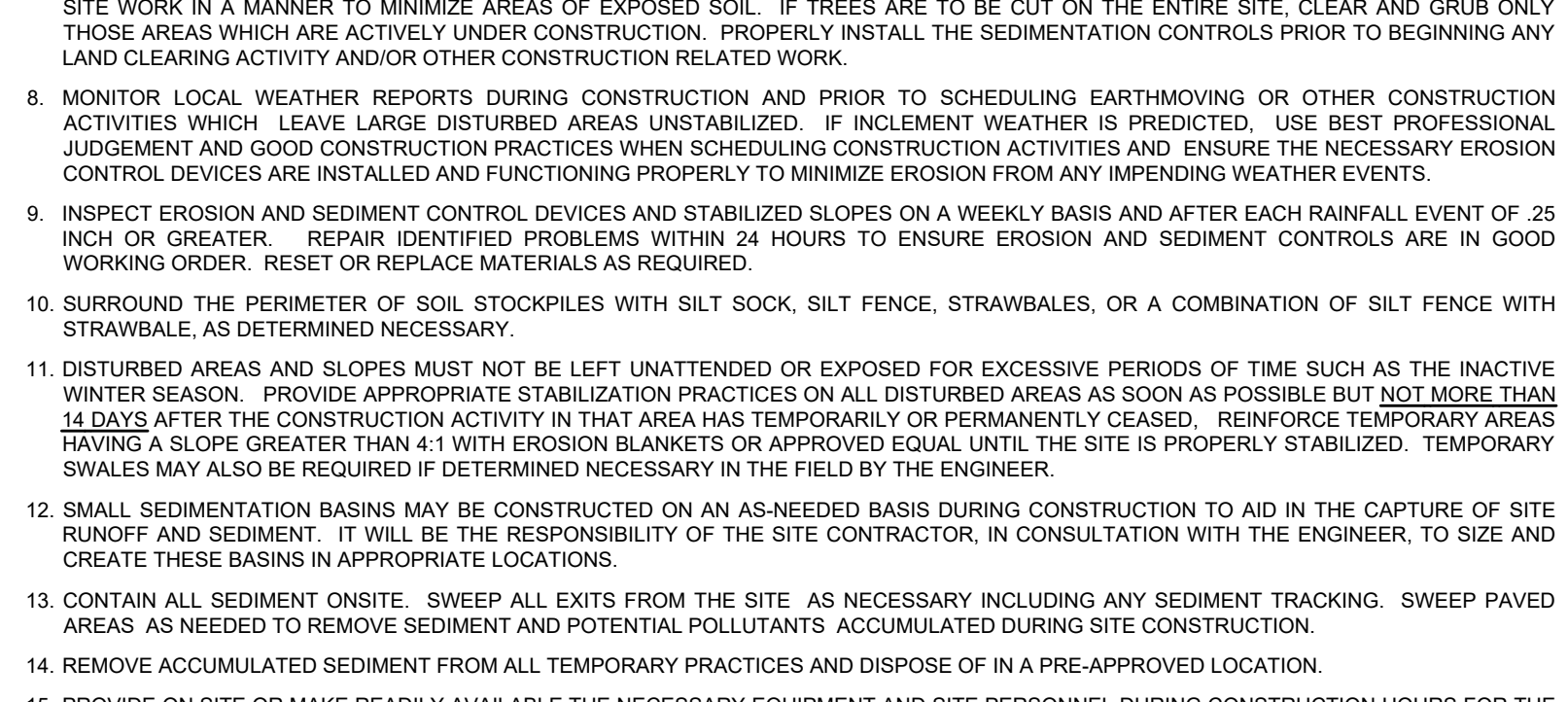
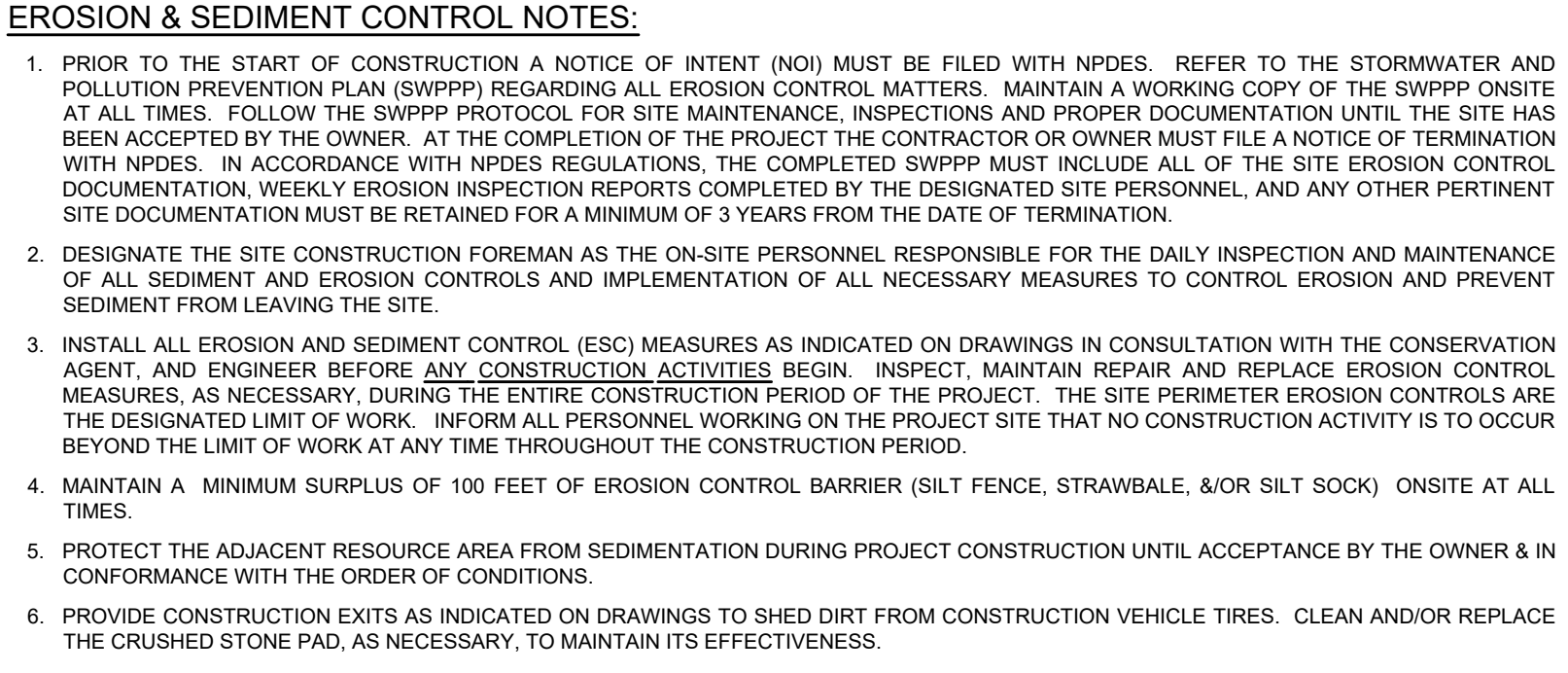
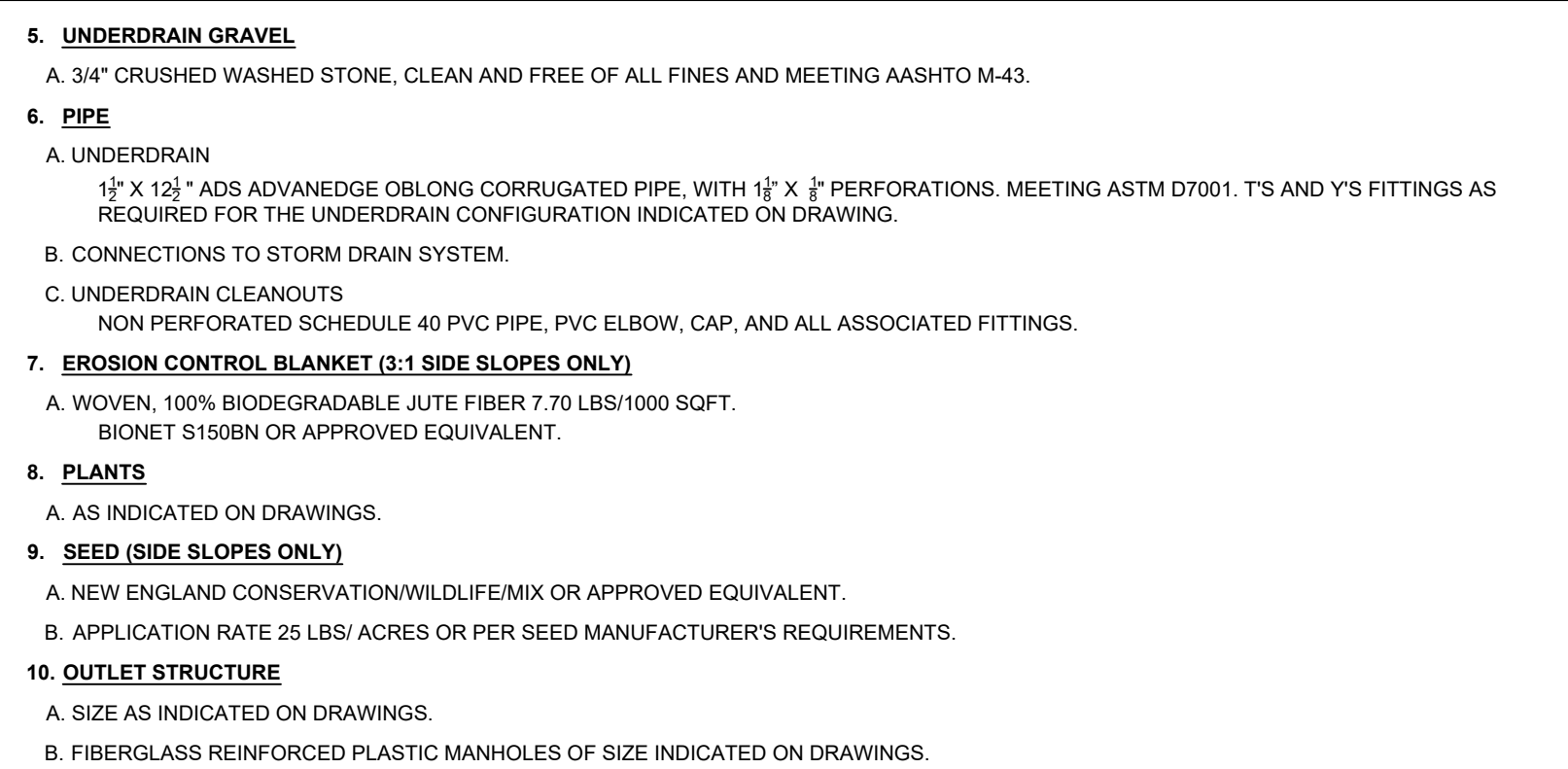
- 1. CONDUCT A PRE-CONSTRUCTION MEETING.
2. CHECK FOR EXISTING UTILITIES PRIOR TO ANY EXCAVATION.
3. CLEAR AND COMPACT THE PROPOSED BIORETENTION AREA.
4. ROUGH GRADE THE BIORETENTION AREA DURING GENERAL CONSTRUCTION.
5. EXCAVATE PRE-TREATMENT CELLS AND/OR SEDIMENT FOREBAYS PRIOR TO BIORETENTION CONSTRUCTION.
6. DO NOT CONSTRUCT THE BIORETENTION AREA UNTIL ALL DISTURBED AREAS WITHIN THE CONTRIBUTING DRAINAGE AREAS HAVE BEEN GRADED AND STABILIZED.
7. INSTALL TEMPORARY EROSION AND SEDIMENT CONTROLS TO DIVERT STORMWATER AWAY FROM THE BIORETENTION AREA.
8. EXCAVATE THE BIORETENTION FACILITY TO THE BOTTOM INVERT OF THE SUBDRAIN SYSTEM, IF USED FOR TEMPORARY STORMWATER MANAGEMENT DURING CONSTRUCTION.
9. PRIOR TO THE INSTALLATION OF FILTER FABRIC AND MEDIA WITHIN THE BIORETENTION AREAS, REMOVE AND PROPERLY DISPOSE OF SEDIMENT ACCUMULATED IN AN PARTIALLY CONSTRUCTED OR TEMPORARY BIORETENTION/DRAINAGE AREA USED FOR SEDIMENT CONTROL DURING CONSTRUCTION.
10. INSTALL THE FILTER FABRIC ALONG THE EXCAVATION SIDE WALLS.
11. RIP THE BOTTOM SOILS TO A DEPTH OF SIX INCHES TO PROMOTE GREATER INFILTRATION.
12. INSTALL THE OVERFLOW OUTLET STRUCTURE AS SPECIFIED IN THE DRAWINGS.
13. INSTALL UNDERDRAIN AS INDICATED ON DRAWINGS.
14. INSTALL PEA GRAVEL LAYER AS INDICATED ON DRAWINGS.
15. DELIVER APPROVED BIORETENTION SOIL AND STORE ON ADJACENT IMPERVIOUS AREA OR PLASTIC SHEETING.
16. BACKFILL WITH APPROVED BIORETENTION SOIL TO THE DESIGN GRADE (UN-COMPACTED) AS INDICATED ON DRAWINGS.
17. STABILIZE ALL REMAINING DISTURBED AREAS AND SIDE SLOPES WITH SEEDING, HYDROSEEDING, AND/OR EROSION CONTROL BLANKETS AS INDICATED ON DRAWINGS.
18. INSTALL BIORETENTION PLANTINGS AS INDICATED ON DRAWINGS.
19. INSTALL MULCH LAYER AS INDICATED ON DRAWINGS.
20. CONDUCT FINAL CONSTRUCTION INSPECTION WITH ENGINEER.
21. REMOVE REMAINING EROSION AND SEDIMENT CONTROLS ONLY AFTER SURROUNDING DISTURBED AREAS HAVE BEEN PROPERLY STABILIZED.
22. MAINTAIN A MINIMUM SURPLUS OF 100 FEET OF EROSION CONTROL BARRIER (SILT FENCE, STRAWBALES, AOR SILT SOCK) ON-SITE AT ALL TIMES.
23. PROTECT THE ADJACENT RESOURCE AREA FROM SEDIMENTATION DURING PROJECT CONSTRUCTION UNTIL ACCEPTANCE BY THE OWNER & IN CONFORMANCE WITH THE ORDER OF CONDITIONS.
24. PROVIDE CONSTRUCTION ERS AS INDICATED ON DRAWINGS TO SHEED DIRT FROM CONSTRUCTION VEHICLE TIRES.
25. KEEP THE LIMIT OF CLEARING, GRADING AND DISTURBANCES TO A MINIMUM WITHIN THE PROPOSED AREA OF CONSTRUCTION.
26. MONITOR LOCAL WEATHER REPORTS DURING CONSTRUCTION AND PRIOR TO SCHEDULING EARTHMOVING OR OTHER CONSTRUCTION ACTIVITIES.
27. INSPECT EROSION AND SEDIMENT CONTROL DEVICES AND STABILIZED SLOPES ON A WEEKLY BASIS AND AFTER EACH RAINFALL EVENT.
28. SURROUND THE PERIMETER OF SOIL STOCKPILES WITH SILT SOCK, SILT FENCE, STRAWBALES, OR A COMBINATION OF SILT FENCE WITH STRAWBALES AS DETERMINED NECESSARY.
29. DISTURBED AREAS AND SLOPES MUST NOT BE LEFT UNATTENDED OR EXPOSED FOR EXCESSIVE PERIODS OF TIME.
30. PRIOR TO THE INSTALLATION OF FILTER FABRIC AND MEDIA WITHIN THE BIORETENTION AREAS, REMOVE AND PROPERLY DISPOSE OF SEDIMENT ACCUMULATED IN AN PARTIALLY CONSTRUCTED OR TEMPORARY BIORETENTION/DRAINAGE AREA USED FOR SEDIMENT CONTROL DURING CONSTRUCTION.
31. CONTROL DUST BY WATERING OR OTHER APPROVED METHODS AS NECESSARY, OR AS DIRECTED BY THE ENGINEER.
32. THE CONTRACTOR IS RESPONSIBLE FOR THE INSPECTION AND MAINTENANCE DURING CONSTRUCTION OF ALL STORMWATER FACILITIES INSTALLED OR AFFECTED BY THE PROJECT.

**CONSTRUCTION NOTES**

- 1. EXAMINATION
A. VERIFY LAYOUT AND ORIENTATION OF BIORETENTION AREA AND CONNECTIONS.
B. VERIFY EXCAVATION BASE IS READY TO RECEIVE WORK AND EXCAVATIONS, DIMENSIONS, AND ELEVATIONS ARE AS INDICATED ON DRAWINGS.
2. PREPARATION
A. CALL DIGSAFE AT 1-888-DIG-SAFE (1-888-344-7233) NOT LESS THAN THREE BUSINESS DAYS BEFORE PERFORMING WORK.
B. REQUEST UNDERGROUND UTILITIES TO BE LOCATED AND MARKED WITHIN AND SURROUNDING CONSTRUCTION AREAS.
C. IDENTIFY REQUIRED LINES, LEVELS, CONTOURS, AND DATUM.
D. CLEAR AND GRUB THE PROPOSED BIORETENTION AREA.
3. EXCAVATION
A. EXCAVATE BIORETENTION AREA IN ACCORDANCE WITH GENERAL NOTES AND SPECIFICATIONS.
B. TO MINIMIZE COMPACTION, WORK EXCAVATORS OR BACKHOES FROM THE SIDES TO EXCAVATE THE BIORETENTION AREA TO ITS APPROPRIATE DESIGN DEPTH AND MAINTAIN SCHEDULED CONSTRUCTION ACTIVITIES AND ENSURE THE NECESSARY EROSION CONTROL DEVICES ARE INSTALLED AND FUNCTIONING PROPERLY TO MINIMIZE EROSION FROM ANY IMPENDING WEATHER EVENTS.
C. EXCAVATE AND SEAL ANY PRE-TREATMENT CELLS AND/OR SEDIMENT FOREBAYS FIRST AND SEALED TO TRAP SEDIMENTS PER THE DRAWINGS.
D. ROUGH GRADE THE BIORETENTION AREA DURING GENERAL CONSTRUCTION.
E. IF THE BIORETENTION AREA IS TO BE USED AS A TEMPORARY DRAINAGE STORAGE BASIN DURING THE EARLY STAGES OF PROJECT CONSTRUCTION, THE SIDE SLOPES SHOULD BE TEMPORARILY STABILIZED AND SILT FENCE INSTALLED ALONG THE TOE OF THE ROUGH GRADED BIORETENTION SLOPES TO MINIMIZE EXCESSIVE SEDIMENTATION OF THE BIORETENTION FLOOR.
4. COMPACTION
A. MINIMIZE COMPACTION OF BOTH THE BASE OF THE BIORETENTION AREA AND THE REQUIRED BACKFILL.
B. IF THE BIORETENTION AREA IS EXCAVATED USING A LOADER, USE ONLY WIDE TRACK OR MARSH TRACK EQUIPMENT.
C. COMPACTION CAN BE AVOIDED AT THE BASE OF THE BIORETENTION FACILITY BY USING A PRIMARY TILLING OPERATION SUCH AS A CHISEL PLOW, RIPPER, OR SUBSOILER.
D. DO NOT COMPACT BIORETENTION SOIL WITH MECHANICAL EQUIPMENT.
5. EMBANKMENT/BERM FILL
A. CONSTRUCT EMBANKMENT/BERM IN ACCORDANCE WITH SPECIFICATIONS AND AS INDICATED ON DRAWINGS.
6. INSTALLATION
A. DO NOT CONSTRUCT THE BIORETENTION AREA UNTIL ALL DISTURBED AREAS WITHIN THE CONTRIBUTING DRAINAGE AREAS HAVE BEEN GRADED AND STABILIZED.
B. REMOVE SEDIMENT ACCUMULATED ALONG THE EXCAVATION FLOOR DURING SITE CONSTRUCTION PRIOR TO CONTINUING WITH THE BIORETENTION FACILITY CONSTRUCTION.
C. FORM BOTTOM OF EXCAVATION TO CORRECT ELEVATION.
D. IF INFILTRATION IS PROMOTED, THEN RIP THE BOTTOM SOILS TO A DEPTH OF SIX INCHES TO PROMOTE GREATER INFILTRATION.
E. INSTALL THE FILTER FABRIC ALONG THE EXCAVATION SIDE WALLS AS SPECIFIED IN THE DRAWINGS.
F. INSTALL ANY TEMPORARY EROSION AND SEDIMENT CONTROL TO DIVERT STORMWATER AWAY FROM THE BIORETENTION AREA DURING FINAL CONSTRUCTION AND UNTIL IT IS COMPLETED.
G. ESTABLISH ELEVATIONS AND PIPE INVERTS FOR INLETS AND OUTLETS AS INDICATED ON DRAWINGS.
H. INSTALL THE OVERFLOW OUTLET STRUCTURE AS INDICATED ON DRAWINGS.
I. INSTALL UNDERDRAIN, INCLUDING 4" NON PERFORATED PIPE, GRAVEL AND FILTER FABRIC ON TOP OF THE UNDERDRAIN GRAVELS AS INDICATED ON DRAWINGS.
J. INSTALL PEA GRAVEL LAYER AS INDICATED ON DRAWINGS.
K. DELIVER APPROVED BIORETENTION SOIL AND STORE ON ADJACENT IMPERVIOUS AREA OR PLASTIC SHEETING.
7. BACKFILLING
A. BACKFILL WITH APPROVED BIORETENTION SOIL TO THE DESIGN GRADE AS SPECIFIED IN THE DRAWINGS.
B. PLACE SOIL IN 12 INCH LIFTS UNTIL DESIRED TOP ELEVATION OF BIORETENTION SOIL IS ACHIEVED.
C. DO NOT COMPACT BIORETENTION SOIL WITH MECHANICAL EQUIPMENT.
D. GRADE BIORETENTION MATERIALS WITH LIGHT EQUIPMENT SUCH AS A COMPACT LOADER OR A DOZER/LOADER WITH MARSH TRACKS.
E. STABILIZE ALL REMAINING DISTURBED AREAS AND SIDE SLOPES WITH SEEDING, HYDROSEEDING, AND/OR EROSION CONTROL BLANKETS AS INDICATED ON DRAWINGS.
8. PLANTING
A. PLANT BIORETENTION AREA IN ACCORDANCE WITH PLANTING PLANS AND SPECIFICATIONS.
B. THE PRIMARY FUNCTION OF THE BIORETENTION STRUCTURE IS TO IMPROVE WATER QUALITY.
C. INSTALL BIORETENTION PLANTINGS AS INDICATED ON DRAWINGS.
D. DO NOT PLANT BEFORE THE REMAINING DISTURBED AREAS SURROUNDING THE FACILITY ARE STABILIZED.
E. REMOVE SEDIMENT ACCUMULATED IN THE BIORETENTION AREA DURING THE PLANTING PHASE.
F. IF SUITABLE VEGETATIVE COVER HAS NOT BEEN ESTABLISHED ALONG THE BIORETENTION SIDE SLOPES PRIOR TO PLANTING, INSTALL A SILT FENCE PERIMETER AT THE TOE OF THE BIORETENTION SLOPES AND LEAVE IN PLACE UNTIL AN APPROVED VEGETATIVE COVER HAS BEEN ESTABLISHED.
G. INSTALL MULCH LAYER AS INDICATED ON DRAWINGS.
H. REMOVE REMAINING EROSION AND SEDIMENT CONTROLS ONLY AFTER SURROUNDING DISTURBED AREAS HAVE BEEN PROPERLY STABILIZED.
I. CONDUCT FINAL CONSTRUCTION INSPECTION WITH ENGINEER.
9. CLEAN UP
A. AFTER COMPLETION OF THE WORK, REMOVE AND PROPERLY DISPOSE ALL DEBRIS, CONSTRUCTION MATERIALS, RUBBISH, EXCESS SOIL, ETC. FROM THE PROJECT SITE.



- MATERIAL SPECIFICATIONS**
1. BIORETENTION SOIL
SUBMIT SOIL SAMPLE (2LBS) AND TESTING ANALYSIS RESULTS BY A QUALIFIED SOIL TESTING LABORATORY INDICATING AND INTERPRETING TEST RESULTS FOR COMPLIANCE WITH THE FOLLOWING PARAMETER:
A. UNIFORM SOIL MIX, FREE OF NOXIOUS WEEDS AND STONES, STUMPS, ROOTS OR OTHER SIMILAR OBJECTS LARGER THAN 1 INCH.
B. PROVIDE USDA UNIFIED SOIL CLASSIFICATION: LOAMY SAND
C. PROVIDE A TEXTURAL ANALYSIS INCLUDING THE GRADATION AND PERCENTAGES OF SAND, SILT, AND CLAY CONTENT
85-88% SAND (< 10% COARSE SAND)
8-12% SILT AND CLAY (< 2% CLAY)
D. ORGANIC MATTER: 3%
WELL AGED (6-12 MONTHS), WELL AERATED, LEAF COMPOST OR APPROVED EQUIVALENT
E. PROVIDE A SOIL TEST OF THE BIORETENTION SOIL FOR CONFORMANCE TO THE FOLLOWING CRITERIA:
PH RANGE: 5.2-7.0
MINIMUM N: 32 PPM
MAGNESIUM: MINIMUM 100 PPM
PHOSPHORUS (P205): NOT TO EXCEED 60 PPM
POTASSIUM (K2O): MINIMUM 78 PPM
SOIL SALINITY (EC): NOT TO EXCEED 500 PPM
IF THE SOIL PH IS NOT WITHIN THE ACCEPTABLE RANGE, AMEND WITH LIME TO RAISE THE PH OR WITH IRON SULFATE TO LOWER THE PH, AS NECESSARY. ALL TESTING SHOULD BE PERFORMED BY THE SAME TESTING FACILITY TO MAINTAIN CONSISTENT RESULTS.
F. VOLUME OF FILTER MEDIA BASED ON 10% OF PLANT VOLUME TO ACCOUNT FOR SETTLING OR COMPACTION.
G. DO NOT MIX, DUMP OR STORE ANY OTHER MATERIALS OR SUBSTANCES THAT MAY BE HARMFUL TO PLANT GROWTH OR PROVE A HINDRANCE TO THE PLANTING MAINTENANCE OR OPERATIONS WITHIN THE BIORETENTION AREA.
2. FILTER FABRIC
A. NON-WOVEN GEOTEXTILE FABRIC WITH FLOW RATE OF > 110 GALLONS/MINUTE/SQUARE FOOT.
B. CLASS "C" APPARENT OPENING SIZE (ASTM-D-4751)
C. GRAB TENSILE STRENGTH (ASTM-D-4632) BURST STRENGTH (ASTM-D-4833).
3. PEA GRAVEL
A. 3/8" WASHED STONE.



**KUTHRANIERI** architects
725 GREENWICH ST STE 400
SAN FRANCISCO CA 94133
TEL: 415.544.9880
WWW.KUTHRANIERI.COM

**Horsley Witten Group, Inc.**
Sustainable Environmental Solutions
www.horsleywitten.com
90 Route 6A
Sandwich, MA 02563
508-833-6600
508-833-3150 fax

**Rock Harbor Harbormaster Building and Site Revitalization**
631 Dyer Prince Road
Eastham, MA 02642
PROJECT INFORMATION
Town of Eastham
OWNER
JAN
NOT FOR CONSTRUCTION
CONSERVATION SUBMISSION
4/5/21
ISSUANCE
RICHARD A. CLAYTON CIVIL No. 45116 REGISTERED PROFESSIONAL ENGINEER
4-5-2021
DRAWN BY: ML CHECKED BY: RAC PROJECT # 2003
DETAILS
C003 SHEET

**Rock Harbor Harbormaster Building and Site  
Revitalization**

631 Dyer Prince Road  
Eastham, MA 02642

PROJECT INFORMATION

Town of Eastham OWNER

APR



STAMP  
Notice of Intent  
Updates  
04/05/21  
ISSUANCE

6	04/05/21	Notice of Intent Updates
5	04/05/21	Planning Rev. 1
3	03/02/21	Planning Submission
2	03/02/21	100% Schematic Design - Revision 1
1	03/02/21	100% Schematic Design

ISSUE DATE DESCRIPTION PROJECT # 2003

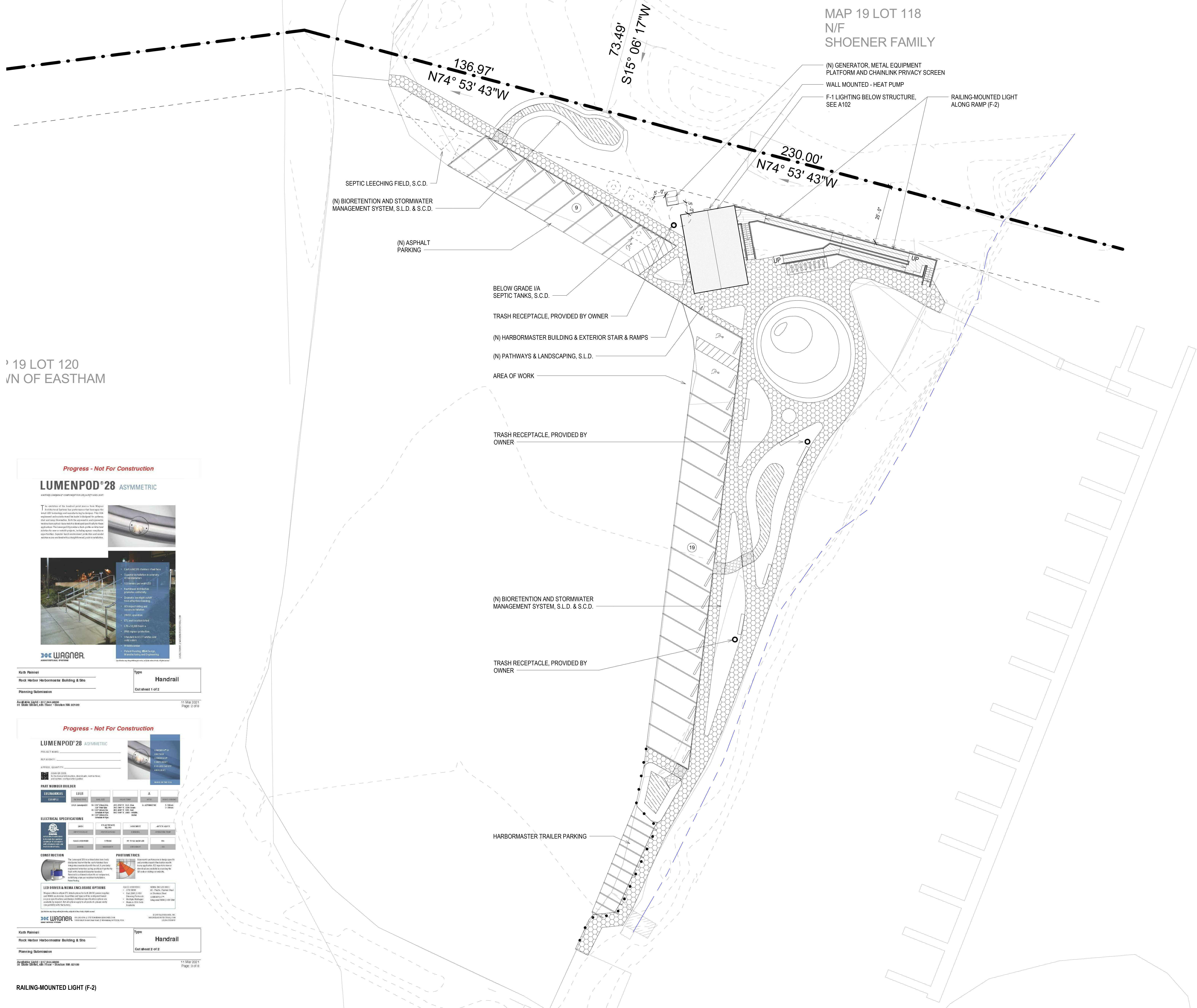
ARCHITECTURE SITE PLAN

TITLE

**A100**

MAP 19 LOT 118  
N/F  
SHOENER FAMILY

- (N) GENERATOR, METAL EQUIPMENT PLATFORM AND CHAINLINK PRIVACY SCREEN
- WALL MOUNTED - HEAT PUMP
- F-1 LIGHTING BELOW STRUCTURE, SEE A102
- RAILING-MOUNTED LIGHT ALONG RAMP (F-2)



' 19 LOT 120  
N OF EASTHAM

**Progress - Not For Construction**

**LUMENPOD® 28** ASYMMETRIC

WAGNER LUMENPOD® 28 ASYMMETRIC

Technical specifications and product details for the LumenPod 28 Asymmetric handrail.

Kit B: Railing	Type	Handrail
Rock Harbor Harbormaster Building & Site		Handrail
Planning Submission		Cut sheet 1 of 2

**Progress - Not For Construction**

**LUMENPOD® 28** ASYMMETRIC

WAGNER LUMENPOD® 28 ASYMMETRIC

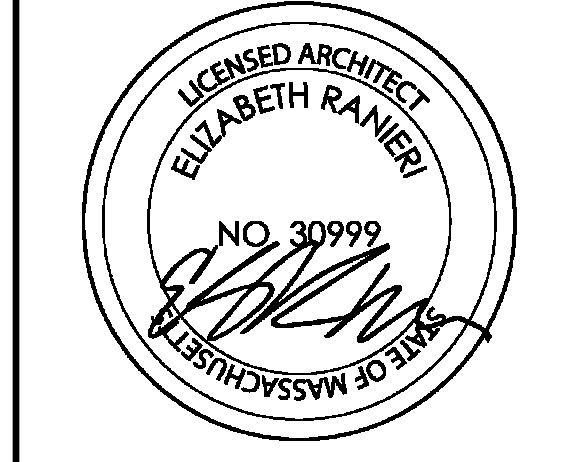
Technical specifications and product details for the LumenPod 28 Asymmetric handrail.

Kit B: Railing	Type	Handrail
Rock Harbor Harbormaster Building & Site		Handrail
Planning Submission		Cut sheet 2 of 2

RAILING-MOUNTED LIGHT (F-2)

1 SITE PLAN  
1/16" = 1'-0"

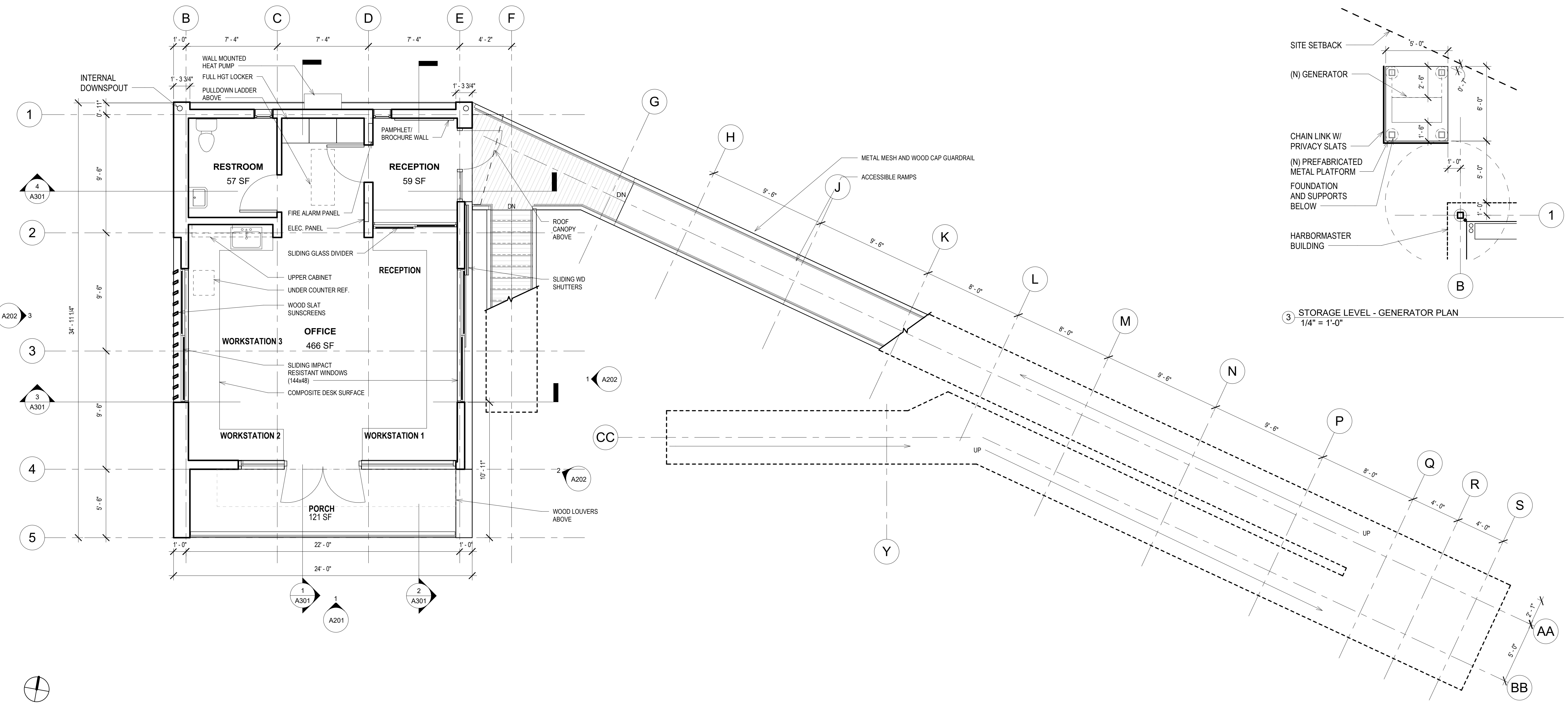
NOTE: If this drawing is not on 30in x 42 in, it has been revised from its original size. Scales as noted on drawings/details are no longer applicable.  
4/29/21 2:53:32 PM



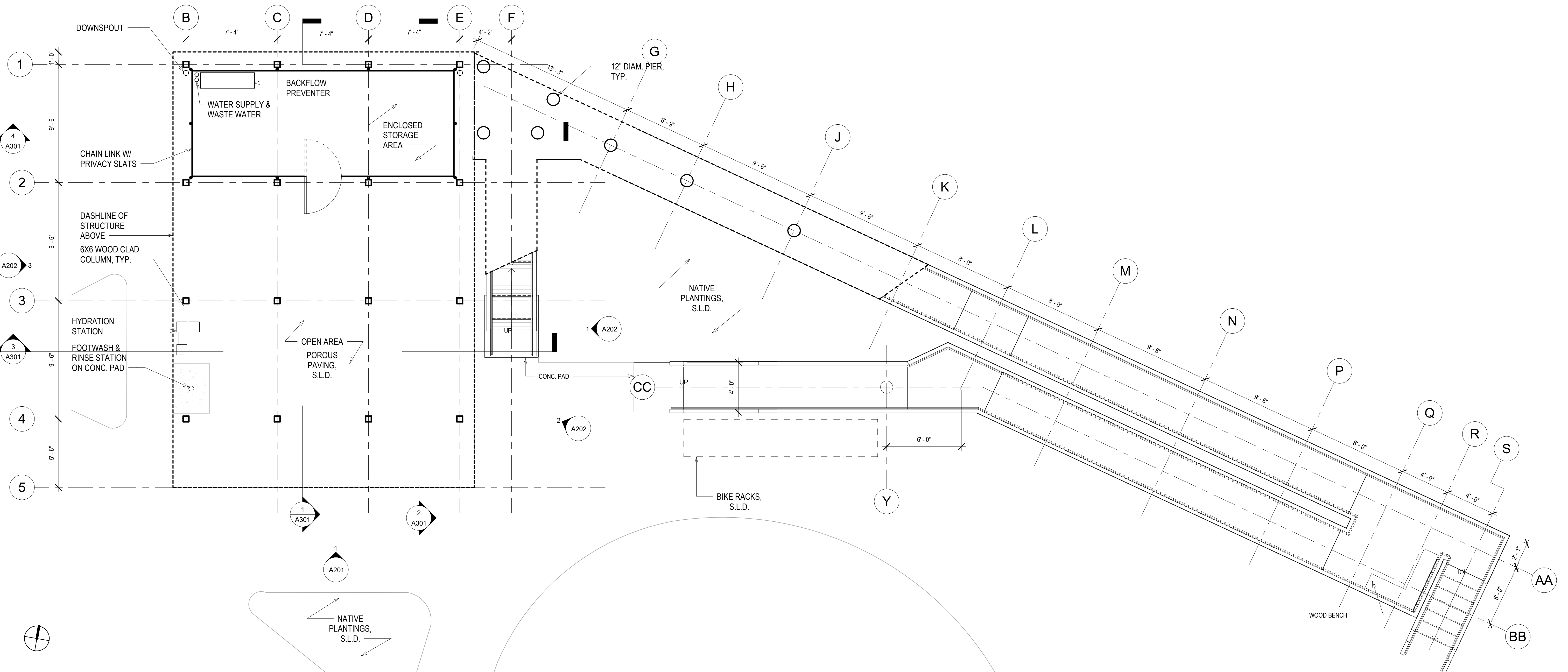
STAMP  
Notice of Intent Updates  
04/05/21  
ISSUANCE

4	04/05/21	Notice of Intent Updates
3	04/05/21	Planning Rev. 1
2	03/07/21	100% Schematic Design - Revision 1
1	01/02/21	100% Schematic Design

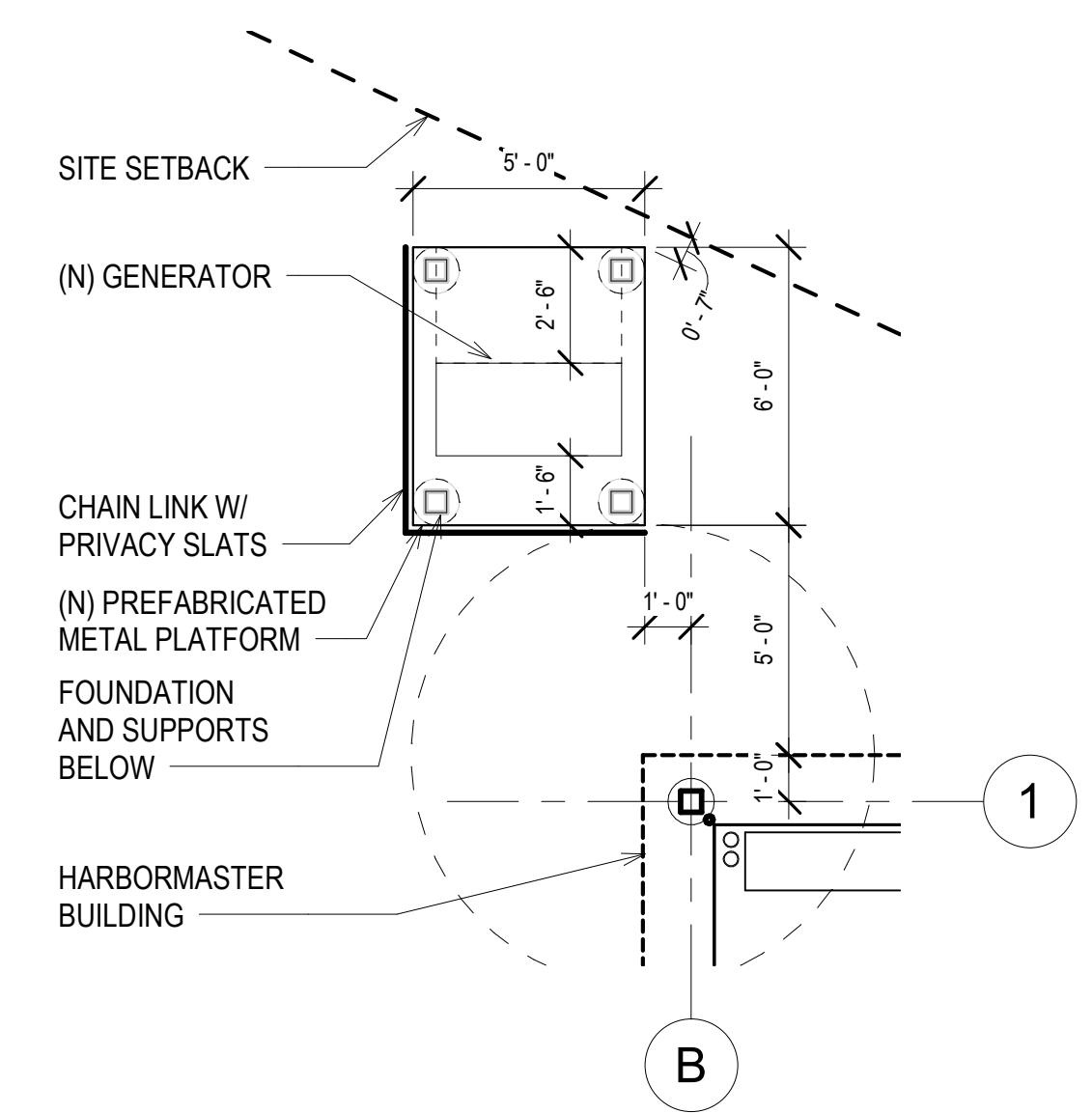
FLOOR PLANS



1 PLAN - OFFICE LEVEL  
1/4" = 1'-0"



2 PLAN - STORAGE LEVEL  
1/4" = 1'-0"



3 STORAGE LEVEL - GENERATOR PLAN  
1/4" = 1'-0"

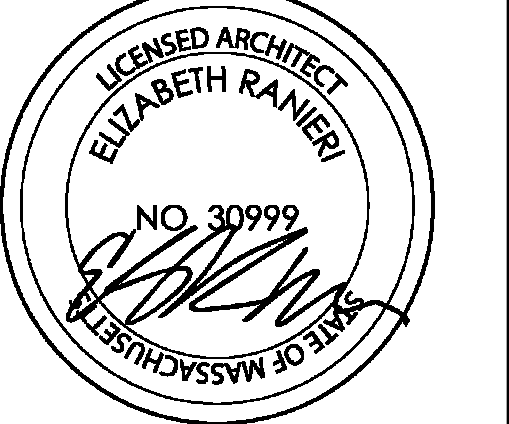
NOTE: If this drawing is not on 30in x 42 in, it has been revised from its original size. Scales as noted on drawings/details are no longer applicable.  
4/29/21 2:28:04 PM

**Rock Harbor Harbormaster Building and Site  
Revitalization**

631 Dyer Prince Road  
Eastham, MA 02642

PROJECT INFORMATION  
Town of Eastham

OWNER: APRIL



STAMP  
Notice of Intent Updates  
04/05/21  
ISSUANCE

6	04/05/21	Notice of Intent Updates
5	04/05/21	Planning Rev. 1
4	03/02/21	Planning Submission
3	03/02/21	100% Schematic Design - Revision 1
2	03/02/21	100% Schematic Design

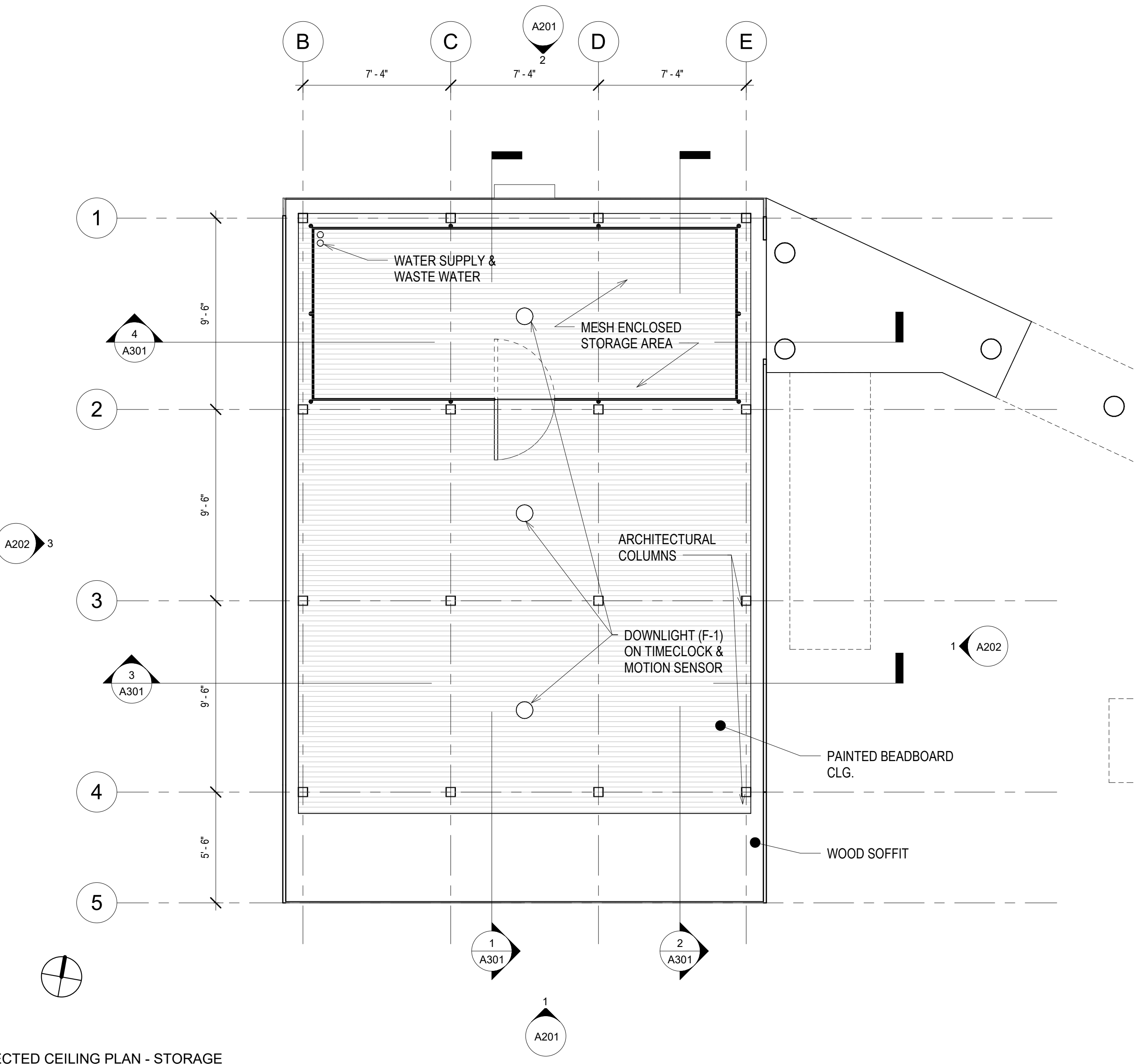
ISSUE DATE DESCRIPTION  
DRAWN BY: CHECKED BY: PROJECT # 2003

ROOF PLAN & RCP

TITLE

**A102**

SHEET



3 REFLECTED CEILING PLAN - STORAGE  
1/4" = 1'-0"

LED ceiling mounted downlight - wide beam

**Application**  
This compact LED ceiling mounted downlight is designed for down lighting alcoves, corridors, stairways, and other recessed and exterior locations requiring a symmetrical wide beam light distribution.

**Materials**  
Luminaire housing constructed of die-cast marine grade, copper free 6063-T5 aluminum alloy.  
Reflector made of clear anodized aluminum.  
High temperature silicone gasket.  
NEMA rated to meet UL wet location standards, suitable for wet locations.  
Production class IP65.  
Weight: 0.1 lbs.

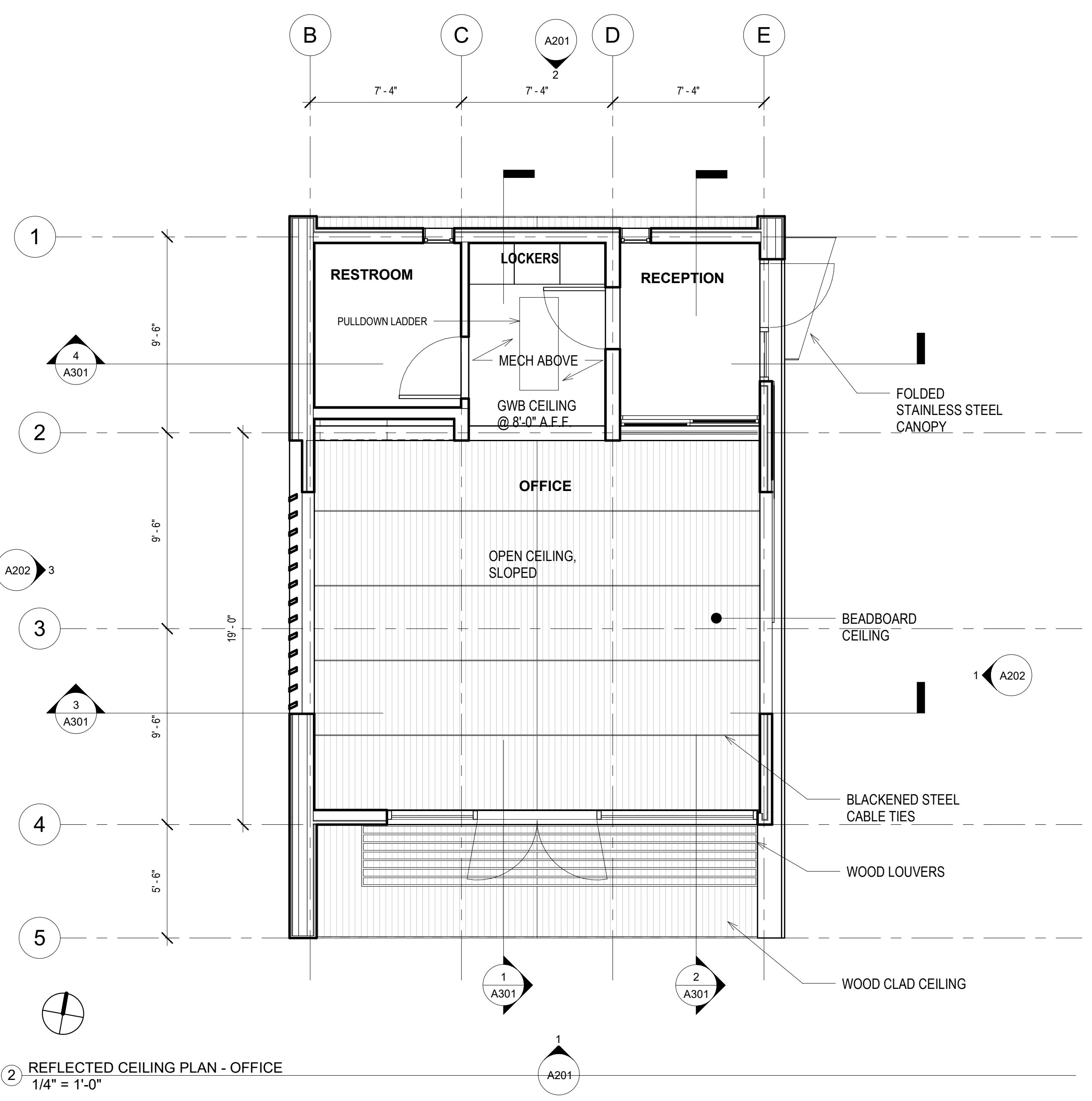
**Electrical**  
Operating voltage: 120-277VAC  
Maximum ambient temperature: 30°C  
LED module wattage: 15W  
System wattage: 17W  
Compatibility: 0-10V, TRIAC, and ELV dimmable  
RoHS Compliant  
UL listed (UL1004)  
Lifetime at Ta = 25°C: 450,000 h (L70)  
Lifetime at Ta = 40°C: 300,000 h (L70)

**LED color temperature**  
□ 3000K - Product number = **KA**  
□ 3500K - Product number = **KB**  
□ 5000K - Product number = **KC EXPRESS**  
□ 2700K - Product number = **KD**

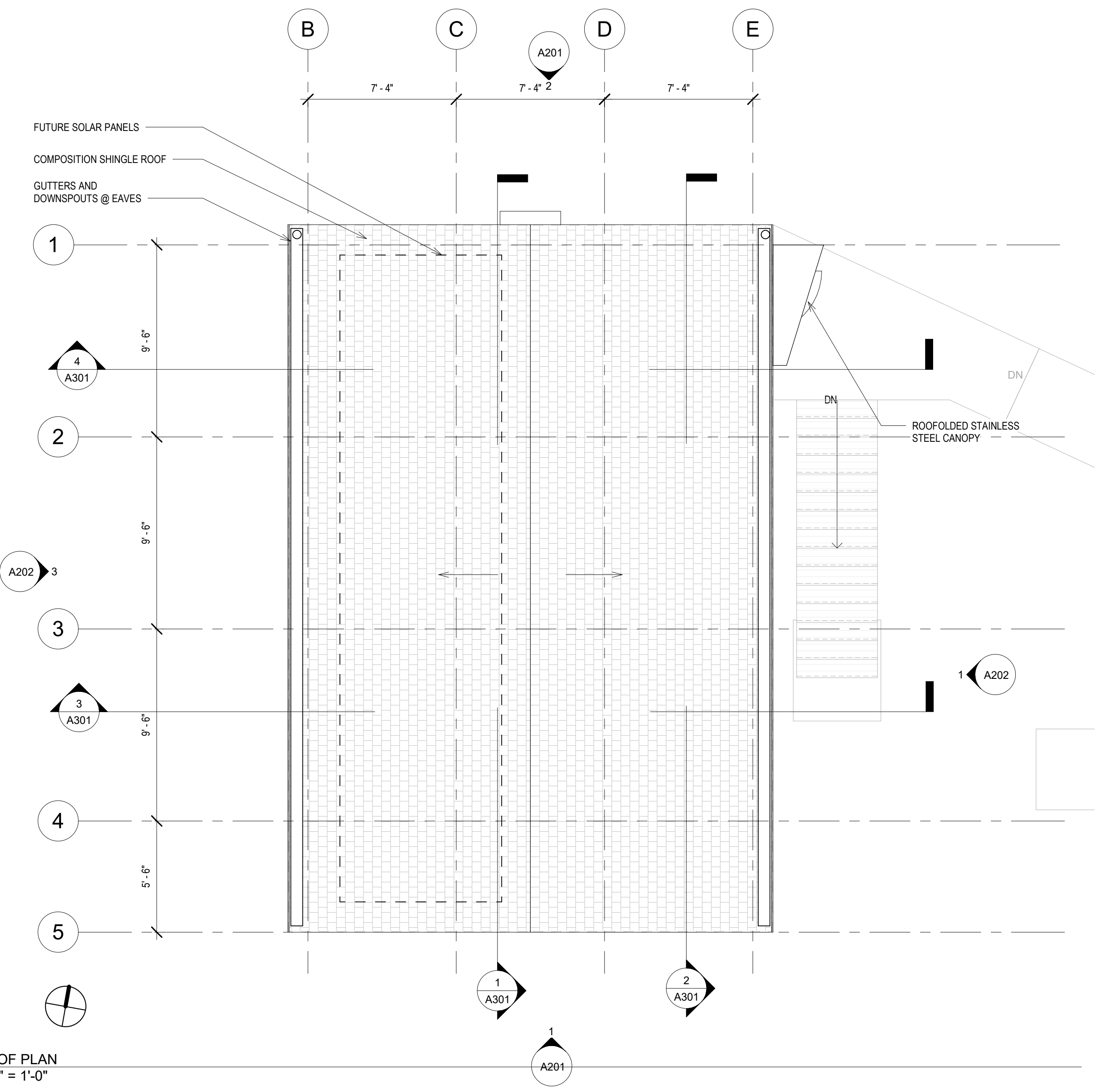
**Finish**  
All BEGA standard finishes are matte, textured polyester powder coat with minimum 3 mil thickness.  
Available colors: □ Black (BK) □ White (WH) □ RAL  
□ Bronze (BR) □ Silver (SV) □ GUS



CEILING-MOUNTED DOWNLIGHT (F-1)



2 REFLECTED CEILING PLAN - OFFICE  
1/4" = 1'-0"



1 ROOF PLAN  
1/4" = 1'-0"

NOTE: If this drawing is not on 30in x 42 in, it has been revised from its original size. Scales as noted on drawings/details are no longer applicable.  
4/29/21 2:26:38 PM



**Rock Harbor Harbormaster Building and Site  
Revitalization**

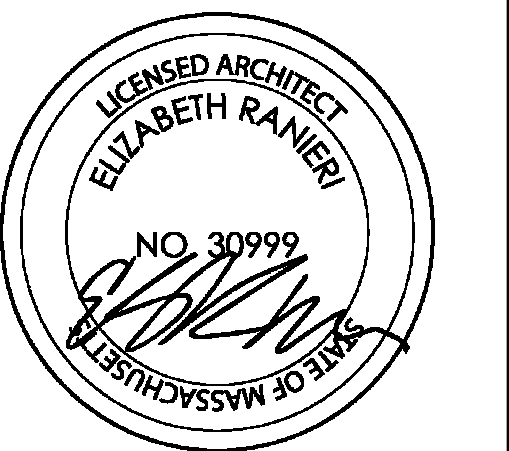
631 Dyer Prince Road  
Eastham, MA 02642

PROJECT INFORMATION

Town of Eastham

OWNER

APR



STAMP

Notice of Intent  
Updates  
04/05/21

ISSUANCE

4	04/05/21	Notice of Intent Updates
5	04/05/21	Planning Rev. 1
1	01/21	Planning Submission
2	03/21	100% Schematic Design - Revision 1
1	01/21	100% Schematic Design

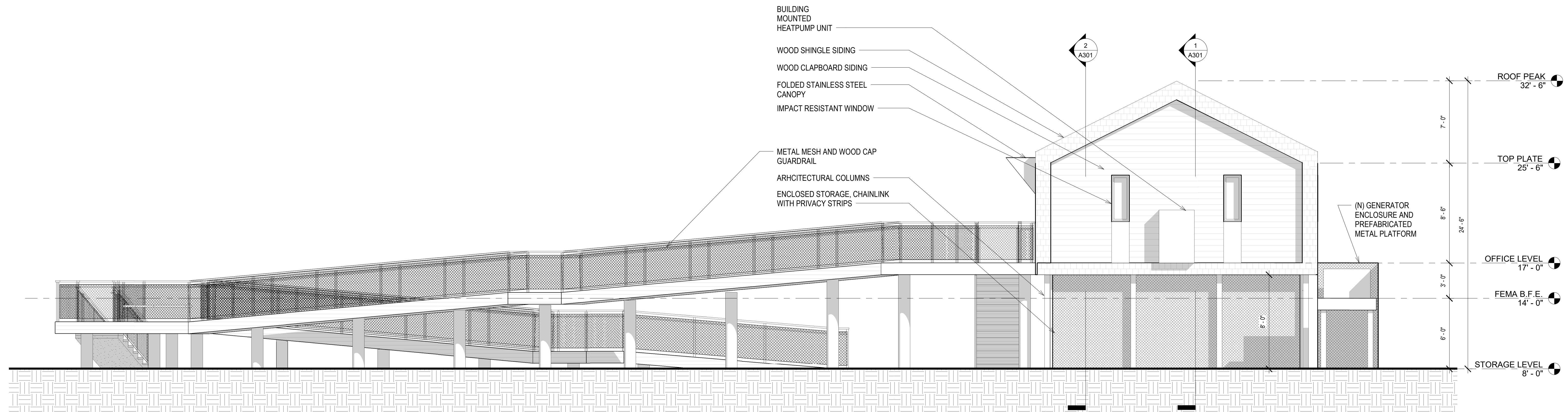
ISSUE	DATE	DESCRIPTION
DRAWN BY:	CHECKED BY:	PROJECT # 2003

EXTERIOR  
ELEVATIONS

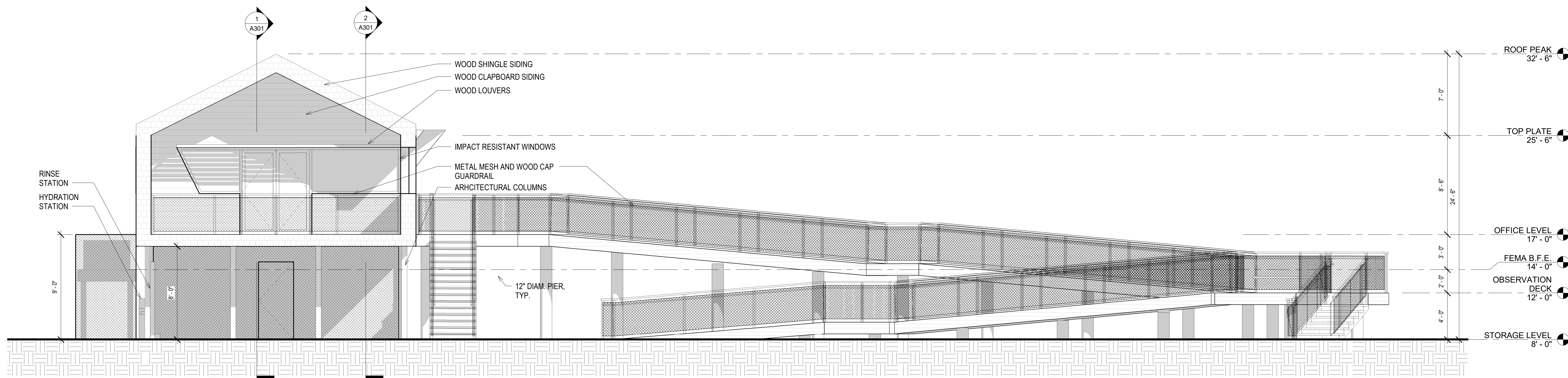
TITLE

**A201**

SHEET



2 ELEVATION - NORTH  
1/4" = 1'-0"

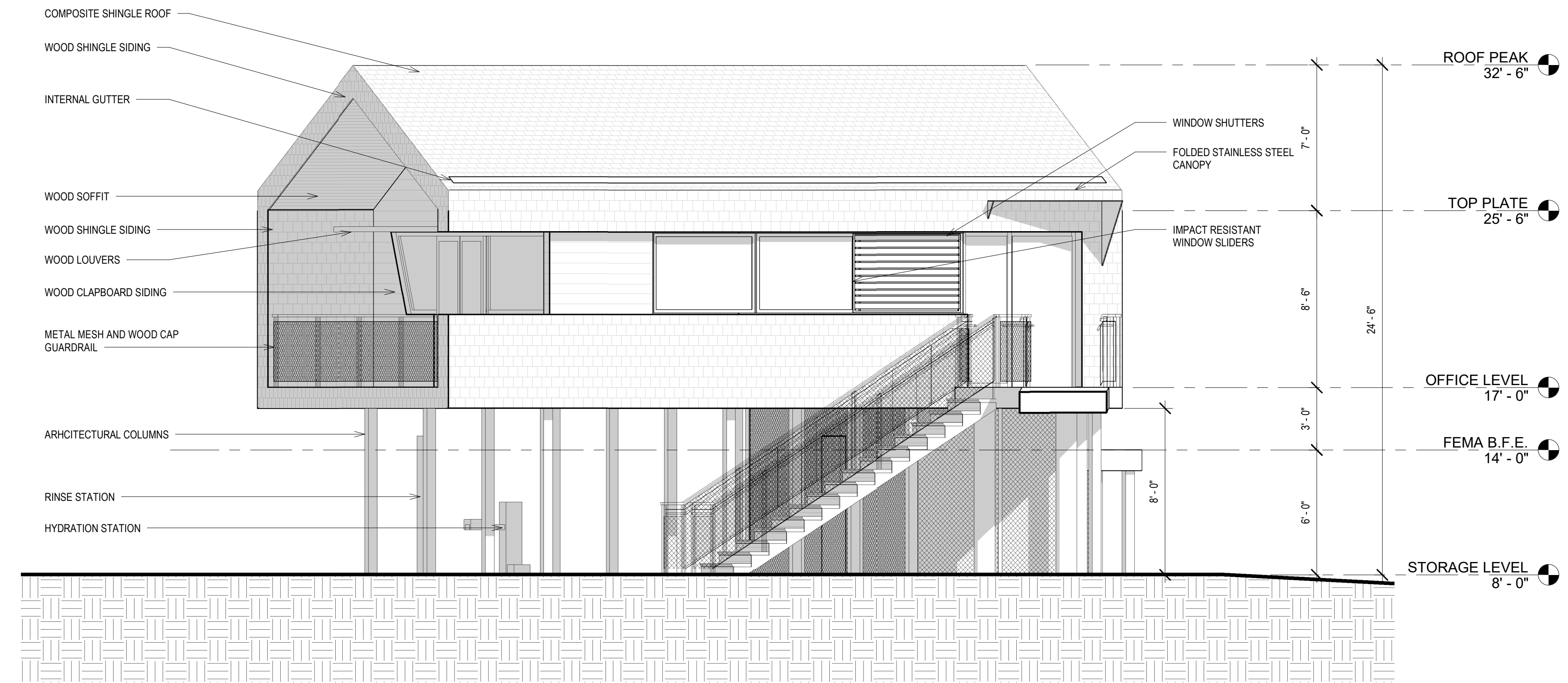


1 ELEVATION - SOUTH  
1/4" = 1'-0"

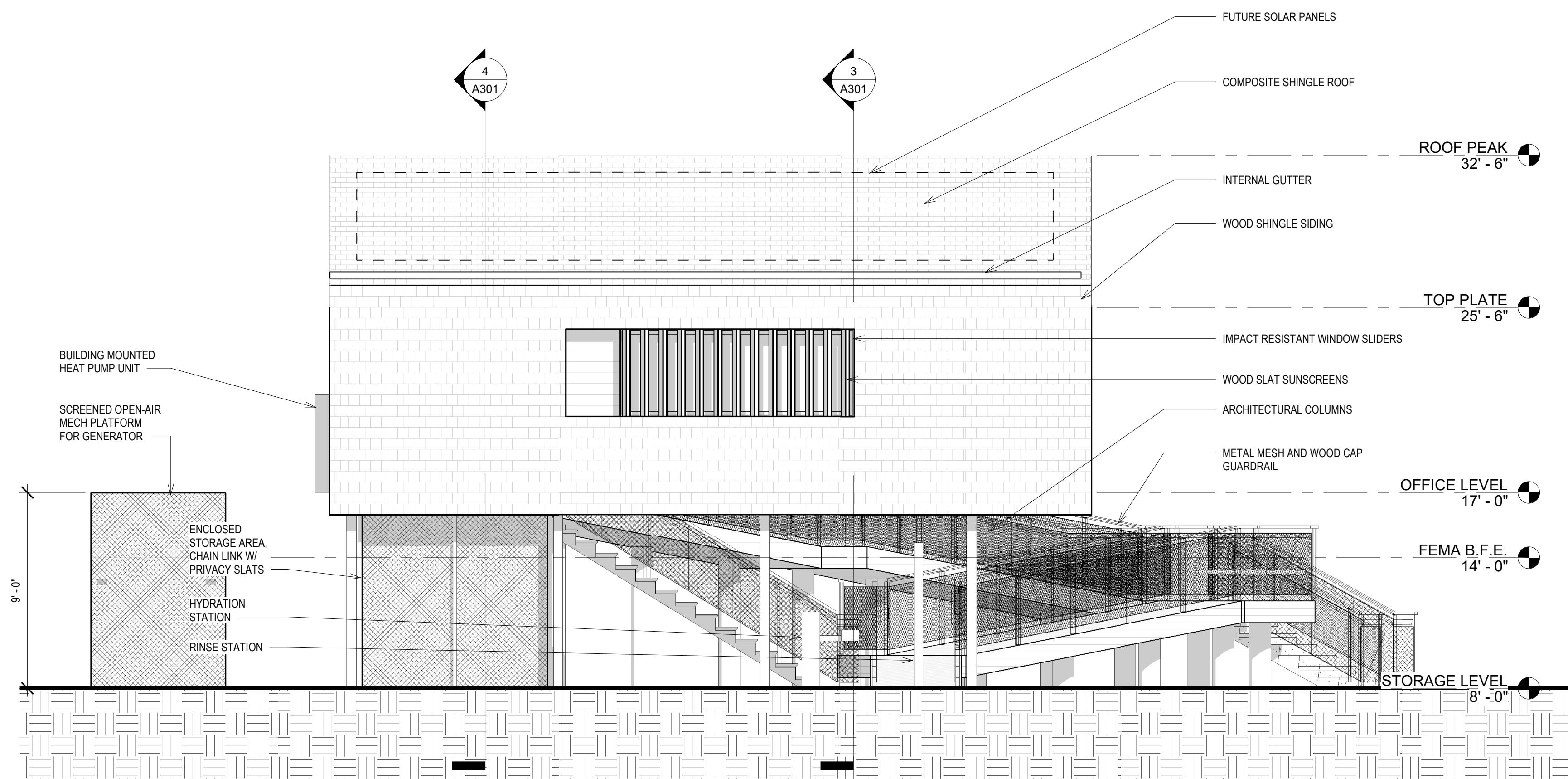
NOTE: If this drawing is not on 30in x 42 in, it has been revised from its original size. Scales as noted on drawings/details are no longer applicable.  
4/29/21 2:25:38 PM

**Rock Harbor Harbormaster Building and Site  
Revitalization**

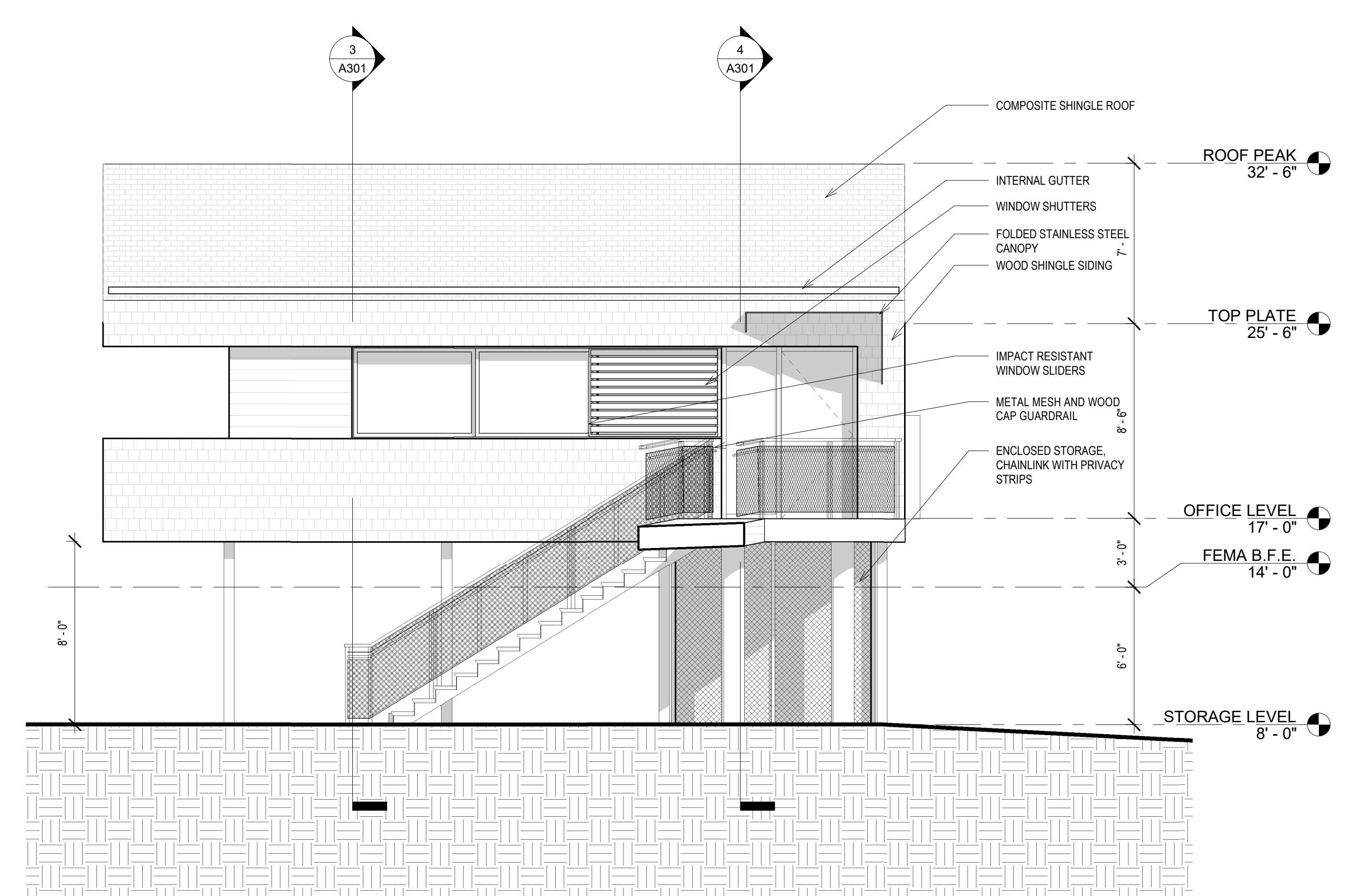
631 Dyer Prince Road  
Eastham, MA 02642



2 ELEVATION - SOUTHEAST  
1/4" = 1'-0"



3 ELEVATION - WEST  
1/4" = 1'-0"



1 ELEVATION - EAST  
1/4" = 1'-0"

NOTE: If this drawing is not on 30in x 42 in, it has been revised from its original size. Scales as noted on drawings/details are no longer applicable.  
4/29/21 2:23:10 PM

PROJECT INFORMATION

Town of Eastham

OWNER

APR

ARCHITECT

NO. 30999

STAMP

Notice of Intent Updates

04/05/21

ISSUANCE

DATE

DESCRIPTION

PROJECT # 2003

EXTERIOR ELEVATIONS

TITLE

A202

SHEET

**Rock Harbor Harbormaster Building and Site  
Revitalization**

631 Dyer Prince Road  
Eastham, MA 02642

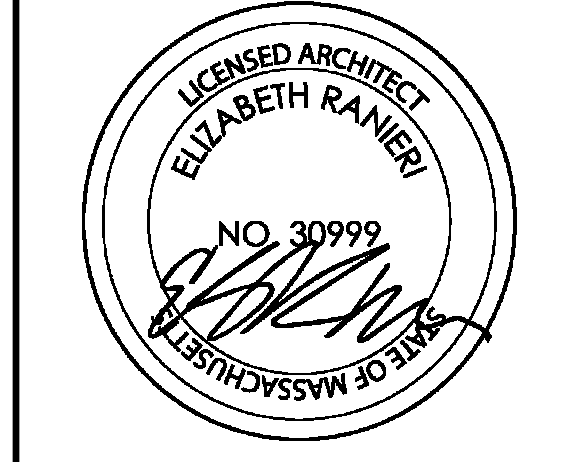
PROJECT INFORMATION

Town of Eastham

OWNER

APR

ARCHITECT



STAMP

Notice of Intent  
Updates  
04/05/21  
ISSUANCE

0	04/05/21	Notice of Intent Updates
1	03/27/21	100% Schematic Design - Revision 1
2	03/12/21	100% Schematic Design

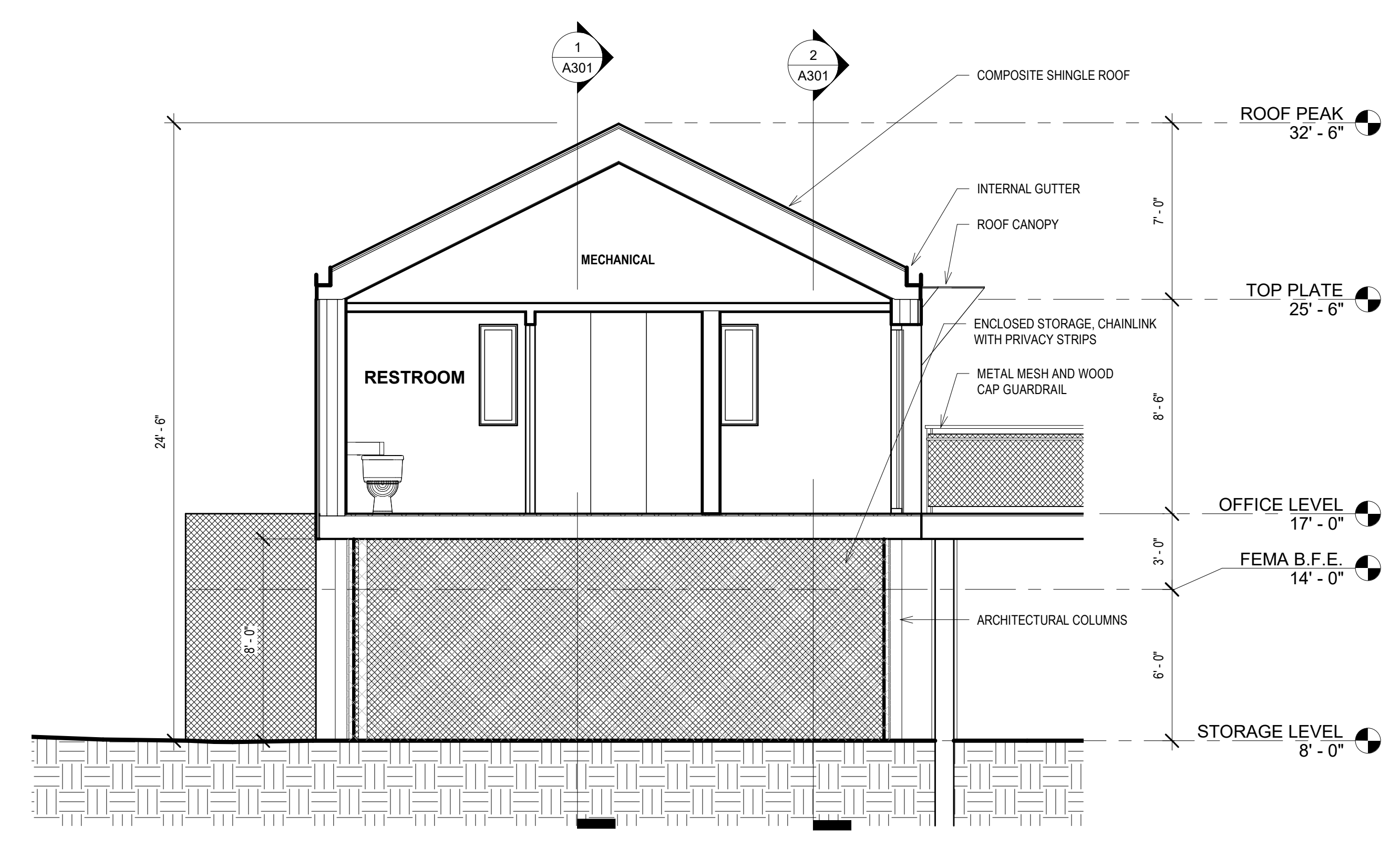
ISSUE DATE DESCRIPTION

DRAWN BY: CHECKED BY: PROJECT #: 2003

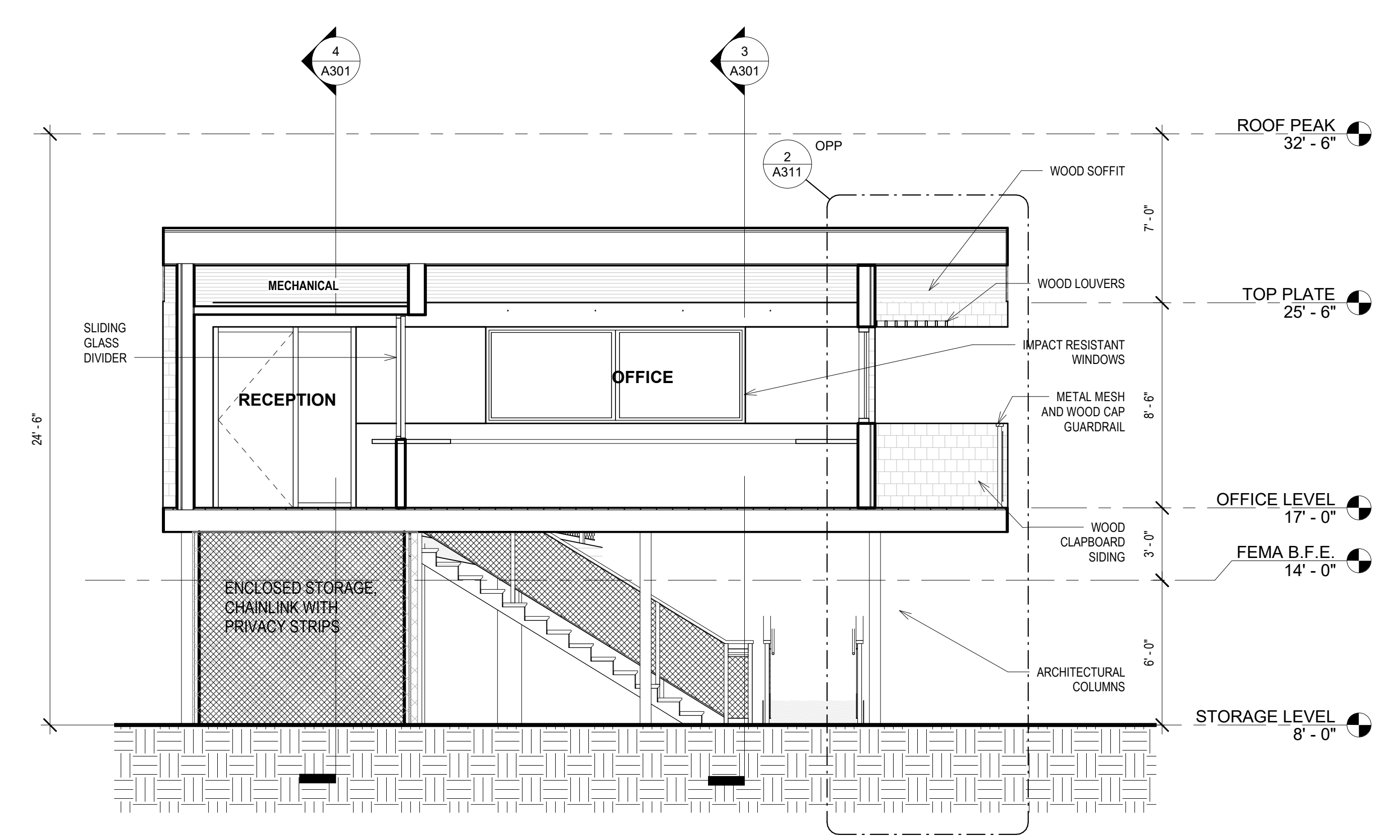
BUILDING SECTIONS

TITLE

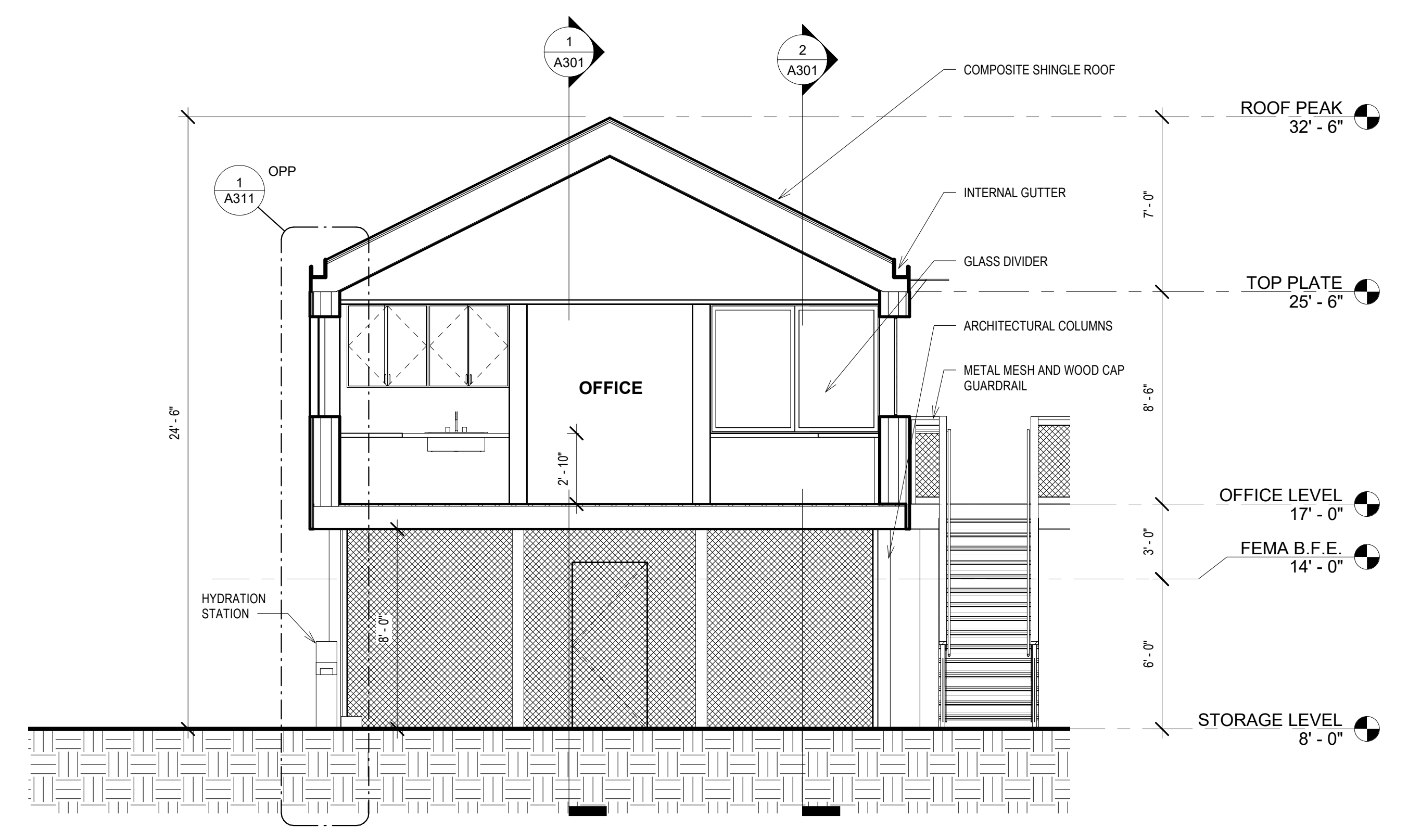
**A301**



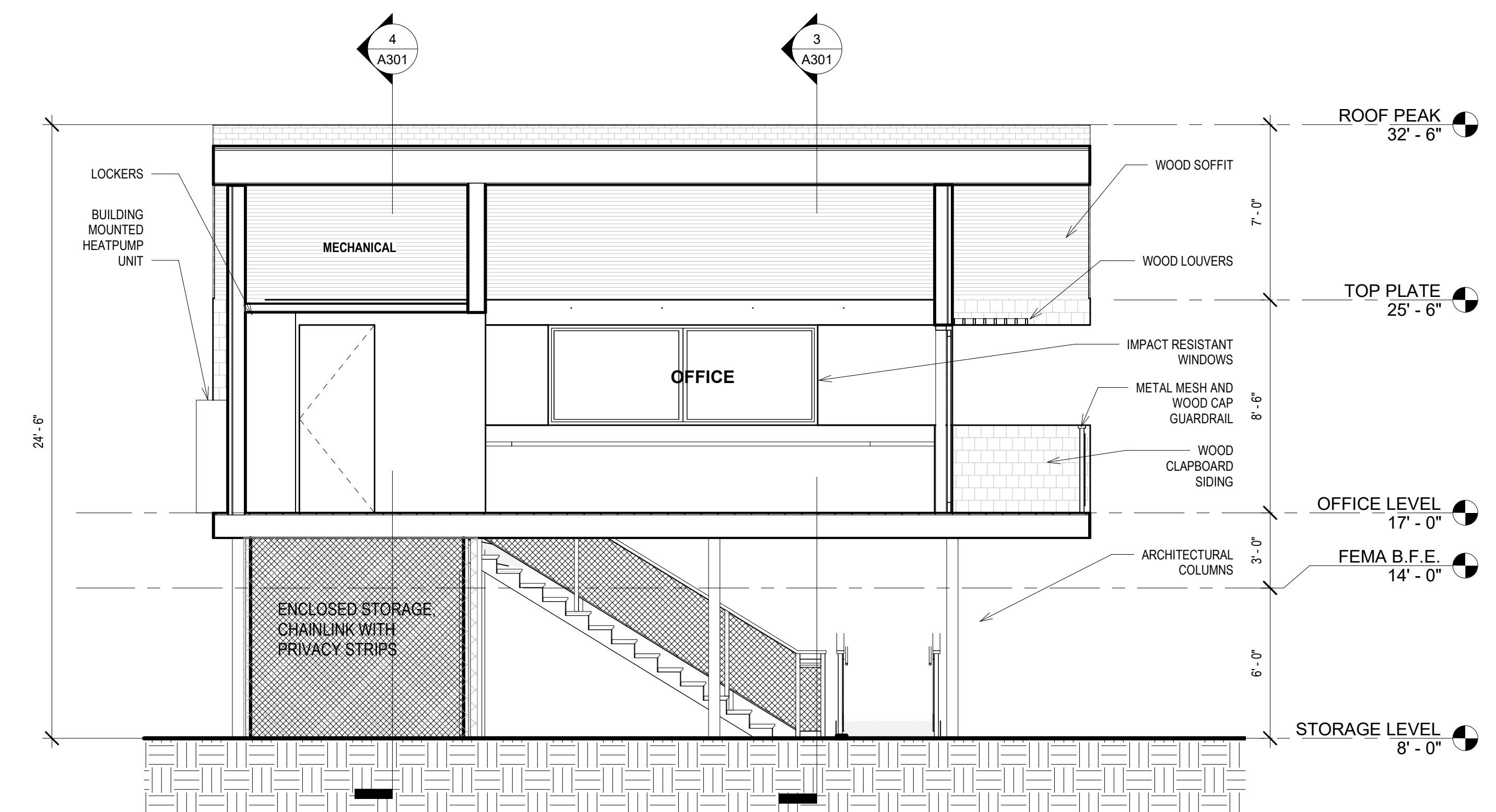
4 CROSS SECTION @ RESTROOM  
1/4" = 1'-0"



2 LONGITUDINAL @ OFFICE + BATHROOM  
1/4" = 1'-0"



3 CROSS SECTION @ OFFICE  
1/4" = 1'-0"



1 LONGITUDINAL SECTION @ RECEPTION  
ENTRY  
1/4" = 1'-0"

NOTE: If this drawing is not on 30in x 42 in, it has been revised from its original size. Scales as noted on drawings/details are no longer applicable.  
4/29/21 2:23:11 PM

**Rock Harbor Harbormaster Building and Site Revitalization**  
631 Dyer Prince Road  
Eastham, MA 02642

PROJECT INFORMATION

Town of Eastham OWNER

APR



STAMP

Notice of Intent Updates  
04/05/21

ISSUANCE

0	04/05/21	Notice of Intent Updates
2	03/21	100% Schematic Design - Revision 1
1	01/21	100% Schematic Design

ISSUE DATE DESCRIPTION PROJECT # 2003

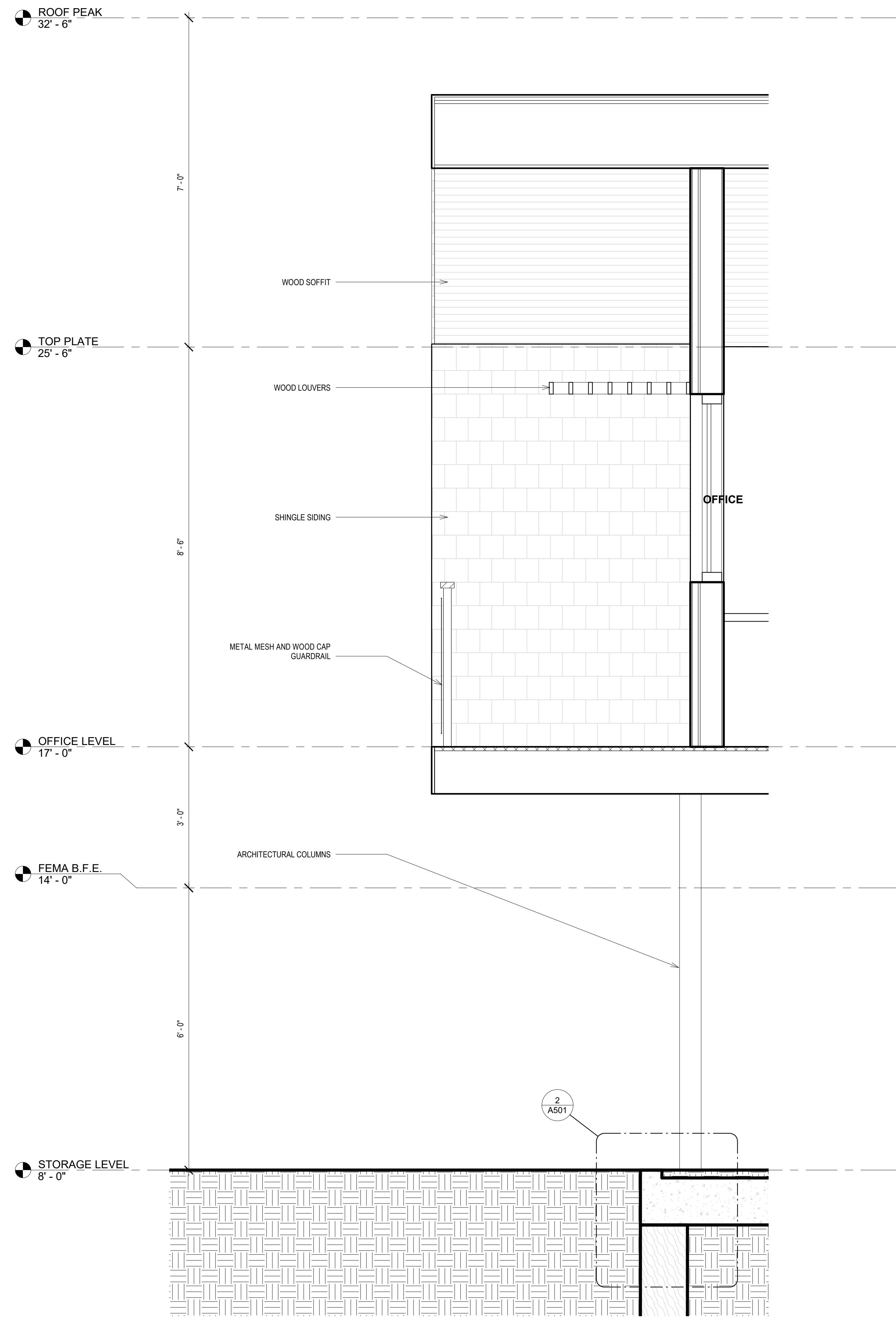
DRAWN BY: CHECKED BY: WALL SECTIONS

TITLE

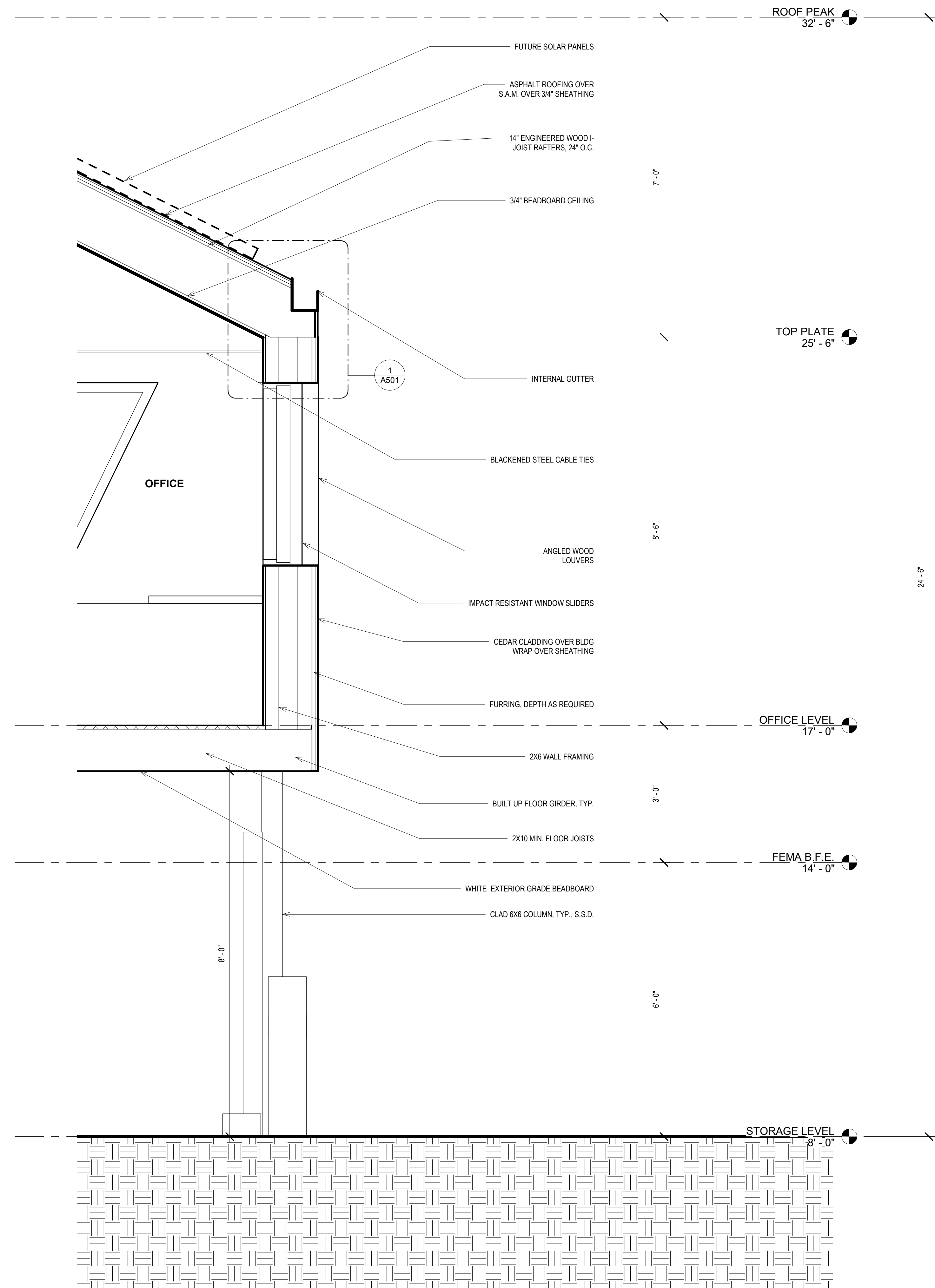
**A311**

SHEET

NOTE: If this drawing is not on 30in x 42 in, it has been revised from its original size. Scales as noted on drawings/details are no longer applicable.  
4/29/21 2:23:12 PM



2 WALL SECTION @ OFFICE AND KITCHEN  
3/4" = 1'-0"



1 WALL SECTION @ OFFICE  
3/4" = 1'-0"

NOTE: If this drawing is not on 30in x 42 in, it has been revised from its original size. Scales as noted on drawings/details are no longer applicable.  
4/28/21 2:28:18 PM

CONSULTANT

**Rock Harbor Harbormaster Building and Site  
Revitalization**

631 Dyer Prince Road  
Eastham, MA 02642

PROJECT INFORMATION

Town of Eastham

OWNER

APR



STAMP

Notice of Intent  
Updates

04/05/21

ISSUANCE

0	04/05/21	Notice of Intent Updates
2	03/21	100% Schematic Design - Revision 1
1	01/21	100% Schematic Design

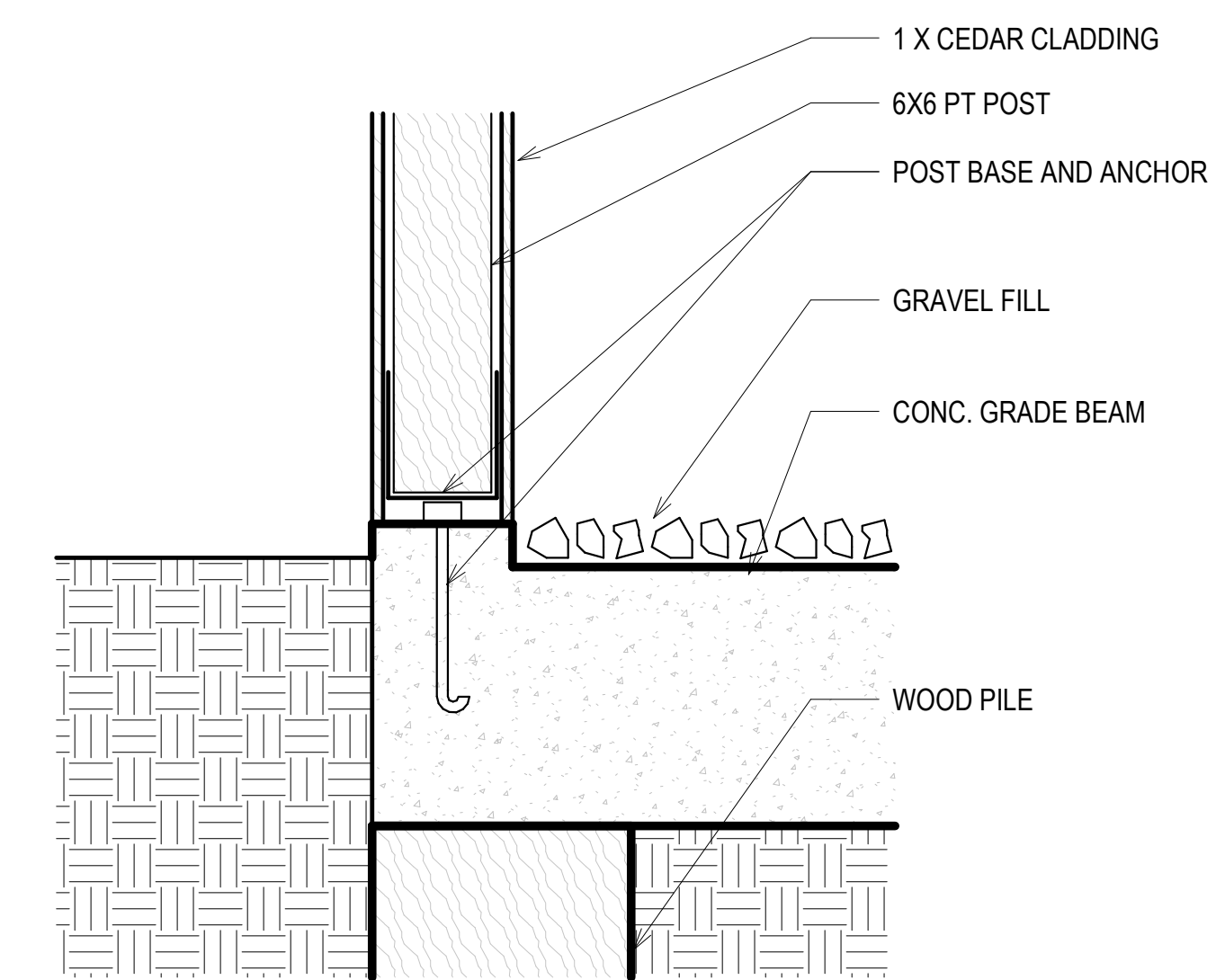
ISSUE	DATE	DESCRIPTION
DRAWN BY:	CHECKED BY:	PROJECT #:

EXTERIOR DETAILS

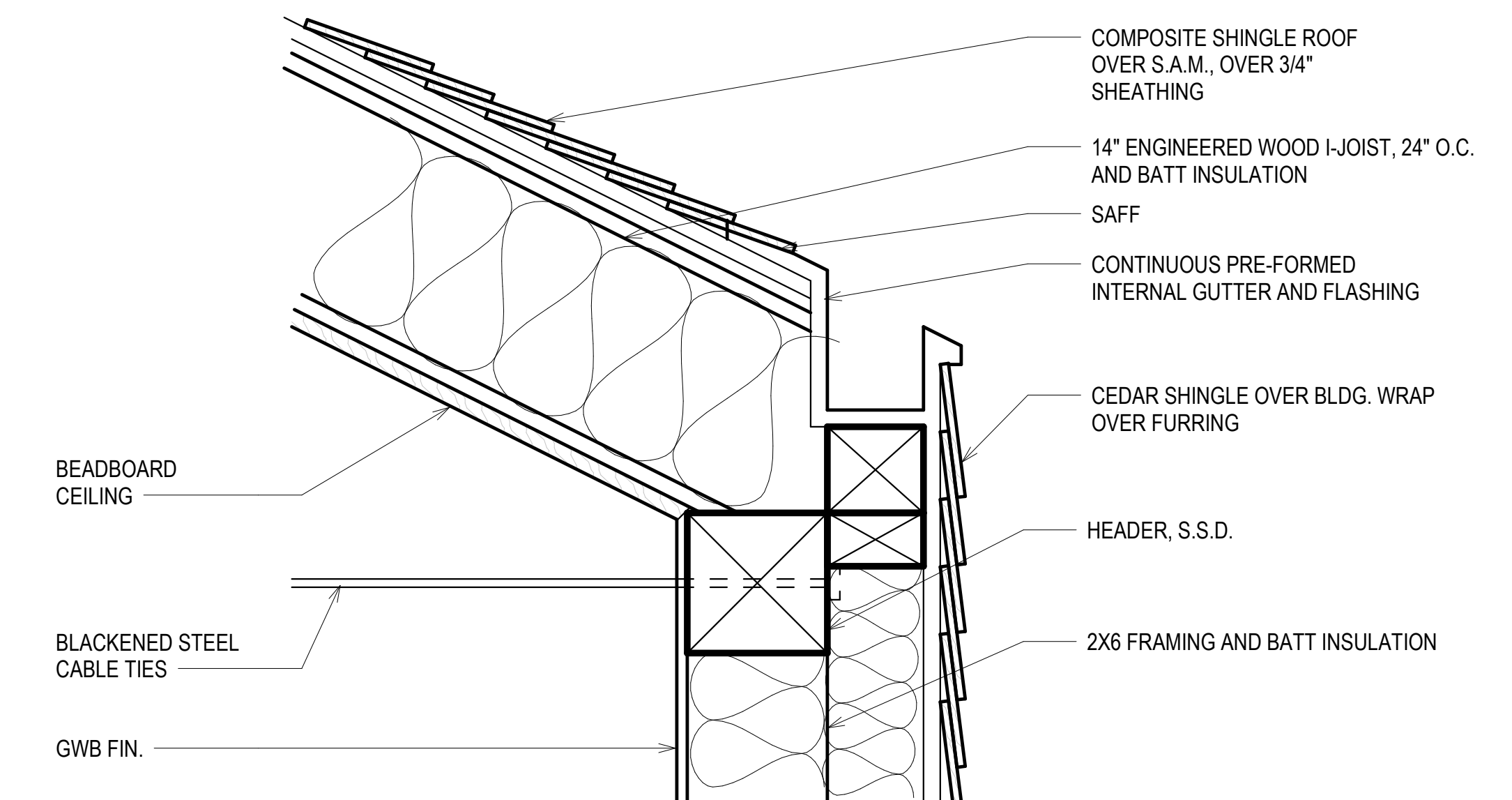
TITLE

**A501**

SHEET



② DETAIL @ GRADE BEAM  
1 1/2" = 1'-0"



① DETAIL @ INTERNAL GUTTER  
1 1/2" = 1'-0"

CONSULTANT

**Rock Harbor Harbormaster Building and Site Revitalization**

631 Dyer Prince Road  
Eastham, MA 02642

PROJECT INFORMATION

Town of Eastham

OWNER

APR



STAMP

Notice of Intent Updates

04/05/21

ISSUANCE

6	04/05/21	Notice of Intent Updates
5	04/05/21	Planning Rev. 1
3	03/02/21	Planning Submission
2	03/02/21	100% Schematic Design - Revision 1
1	01/02/21	100% Schematic Design

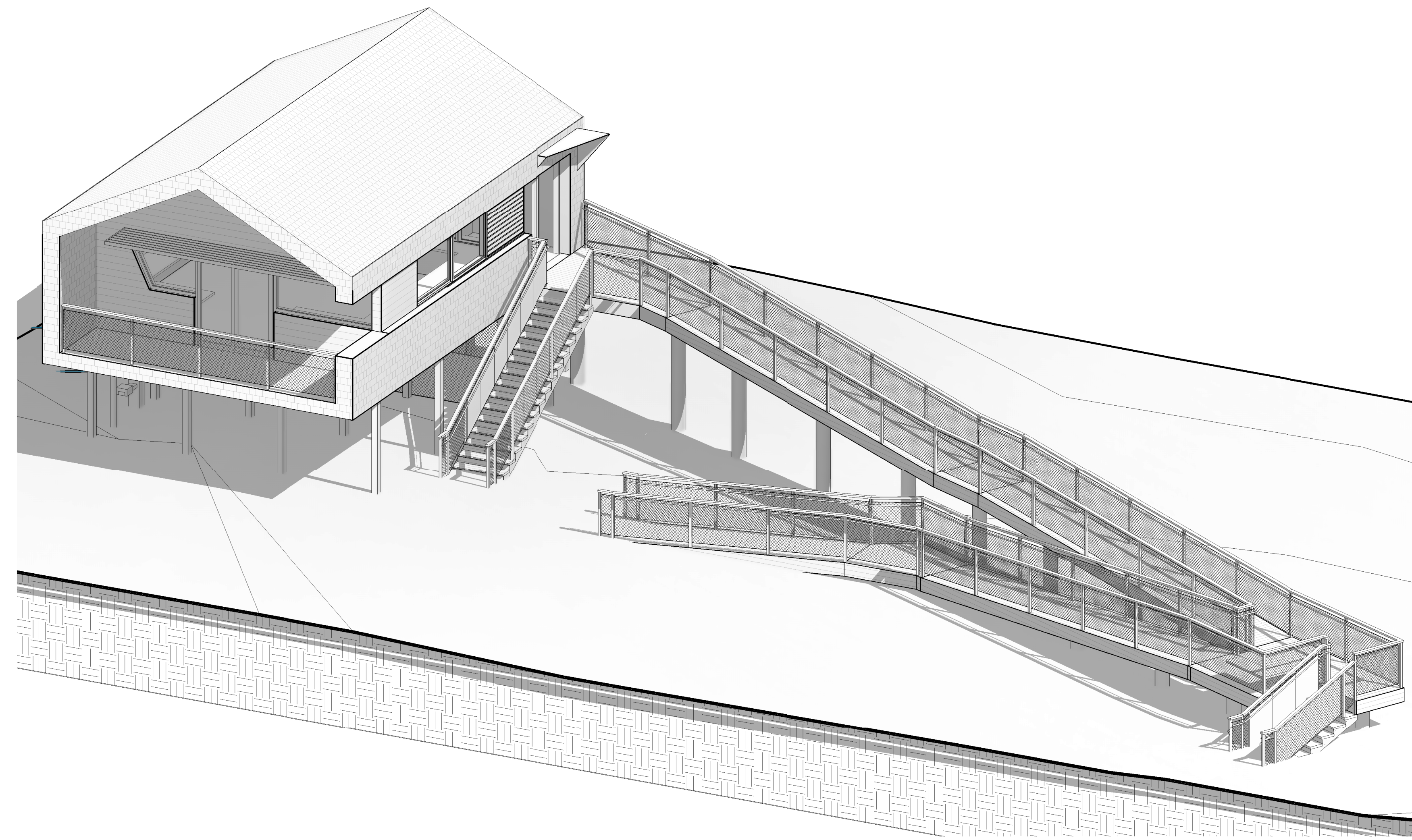
ISSUE	DATE	DESCRIPTION
DRAWN BY:	CHECKED BY:	PROJECT #:

3D VIEWS

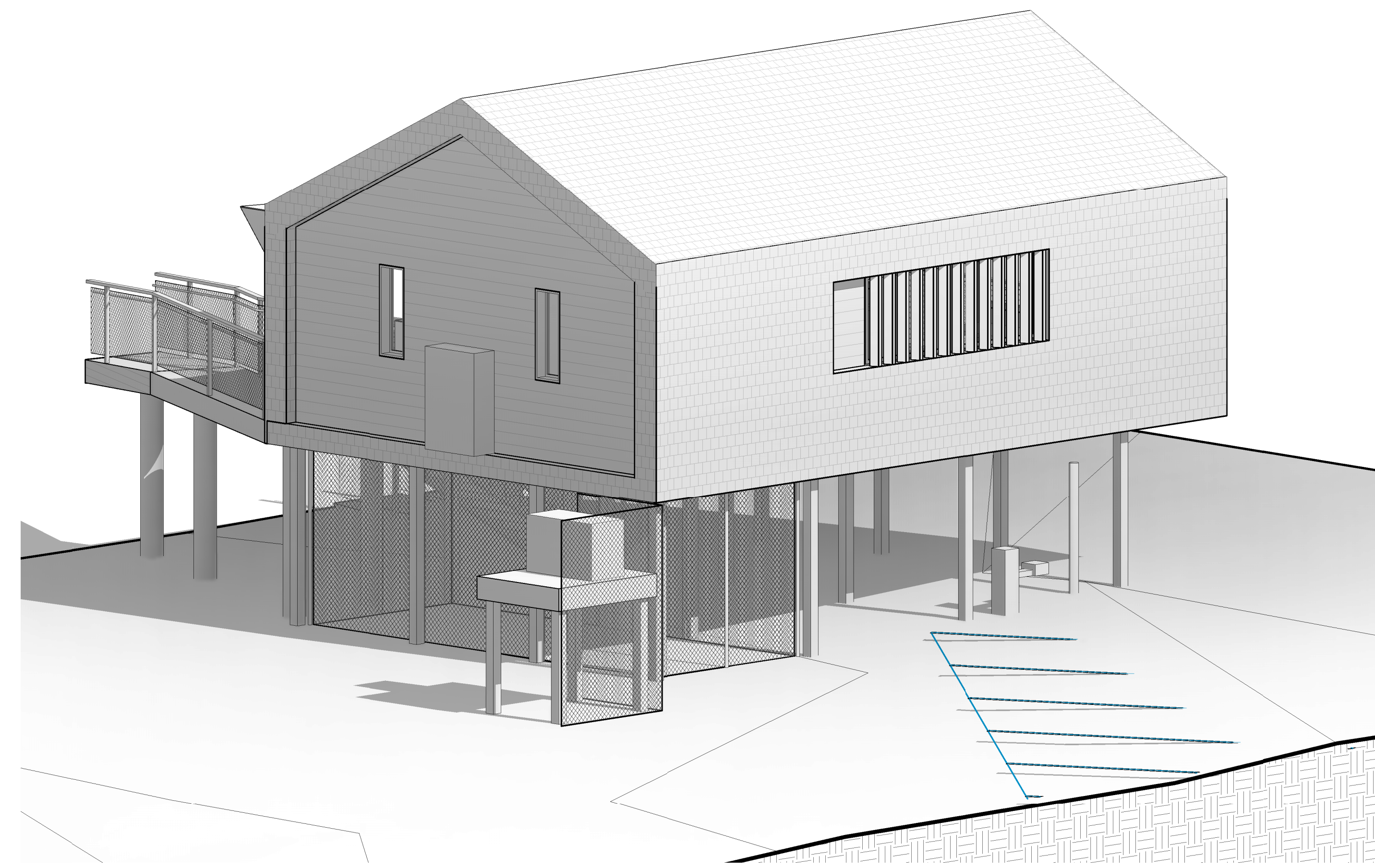
TITLE

**A900**

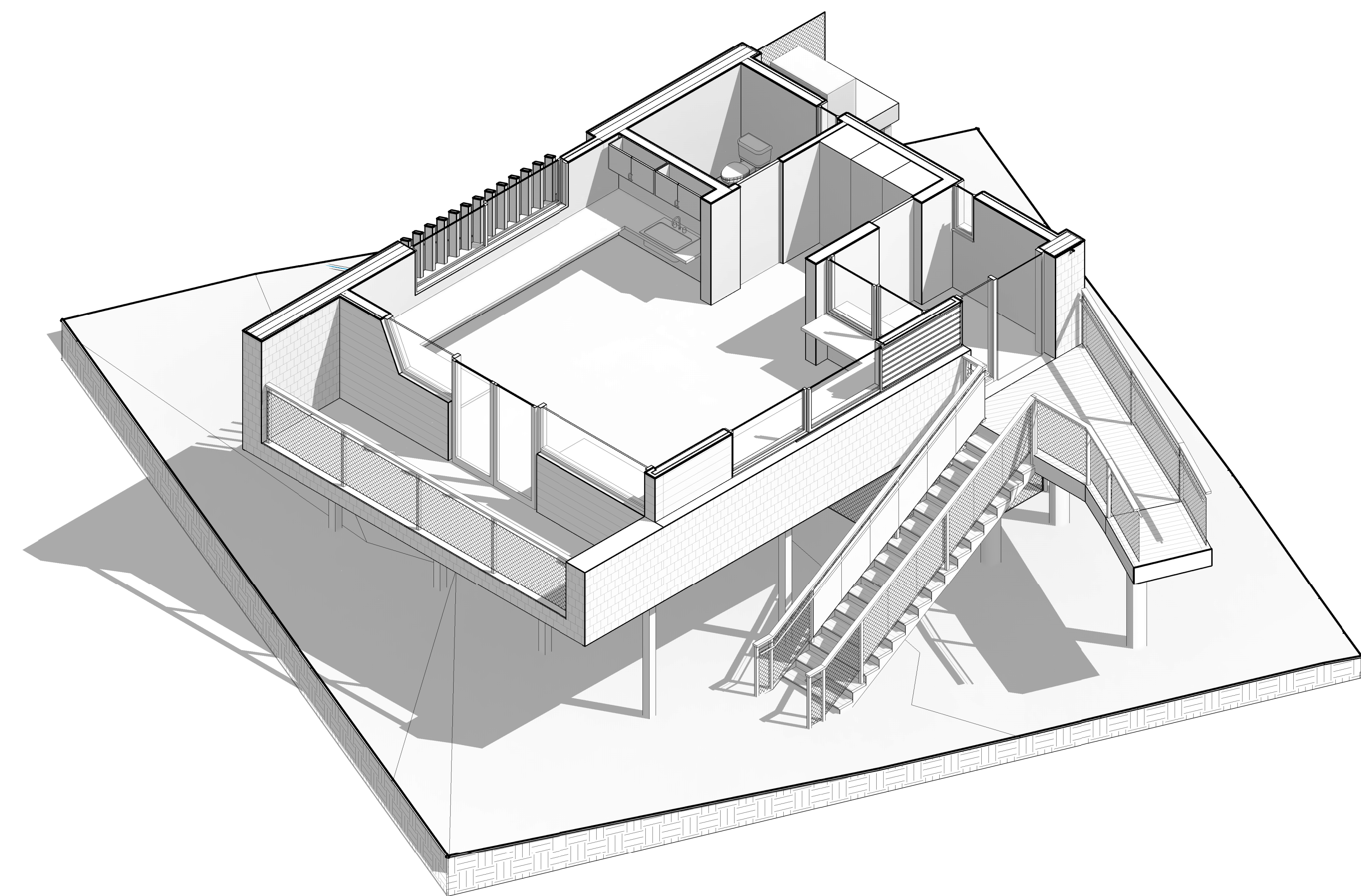
SHEET



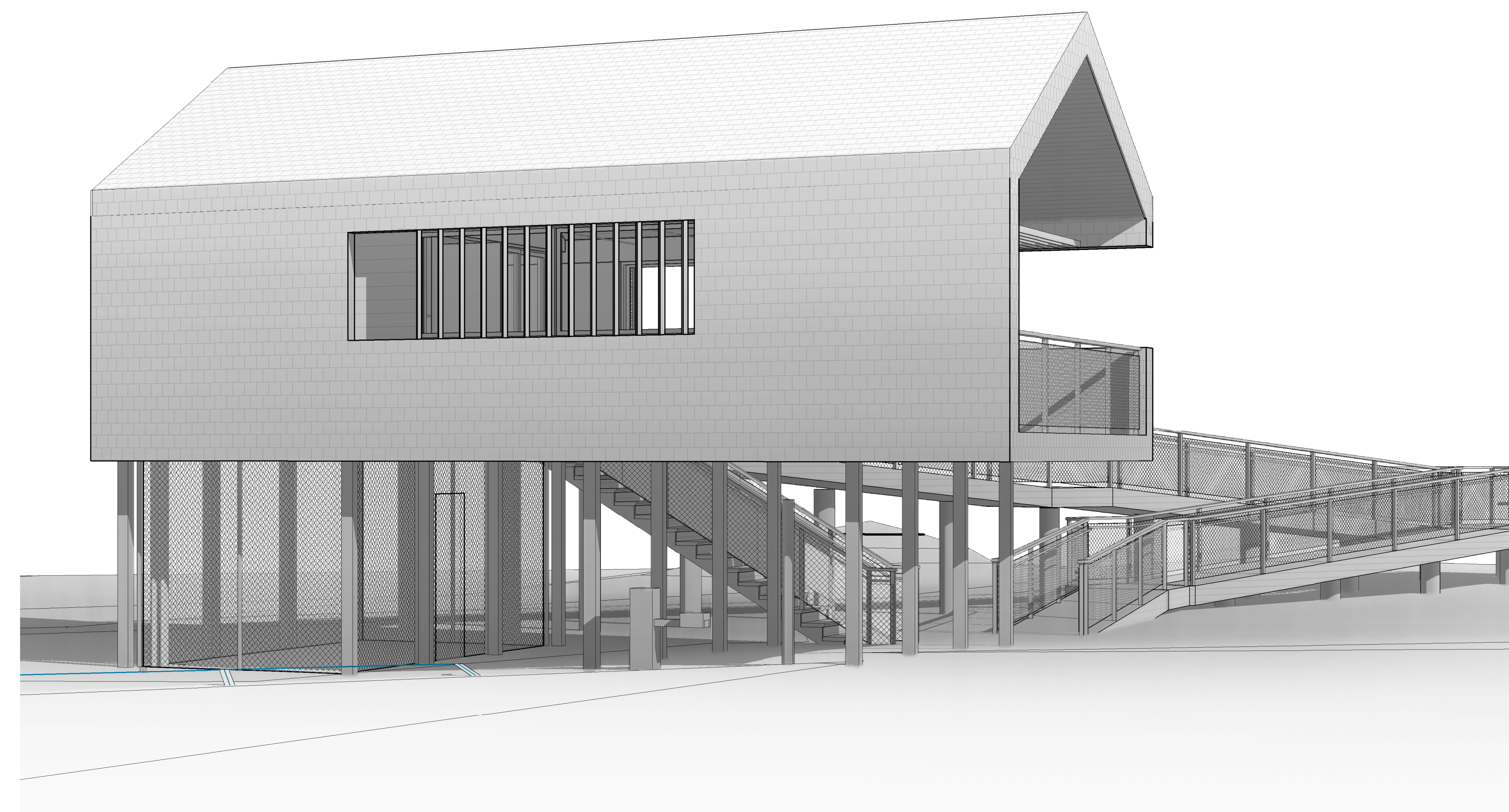
4 ORTHOGRAPHIC VIEW 3



2 ORTHOGRAPHIC VIEW 1



3 ORTHOGRAPHIC VIEW 2



1 PERSPECTIVE VIEW 1

NOTE: If this drawing is not on 30in x 42 in, it has been revised from its original size. Scales as noted on drawings/details are no longer applicable.  
4/29/21 2:23:19 PM