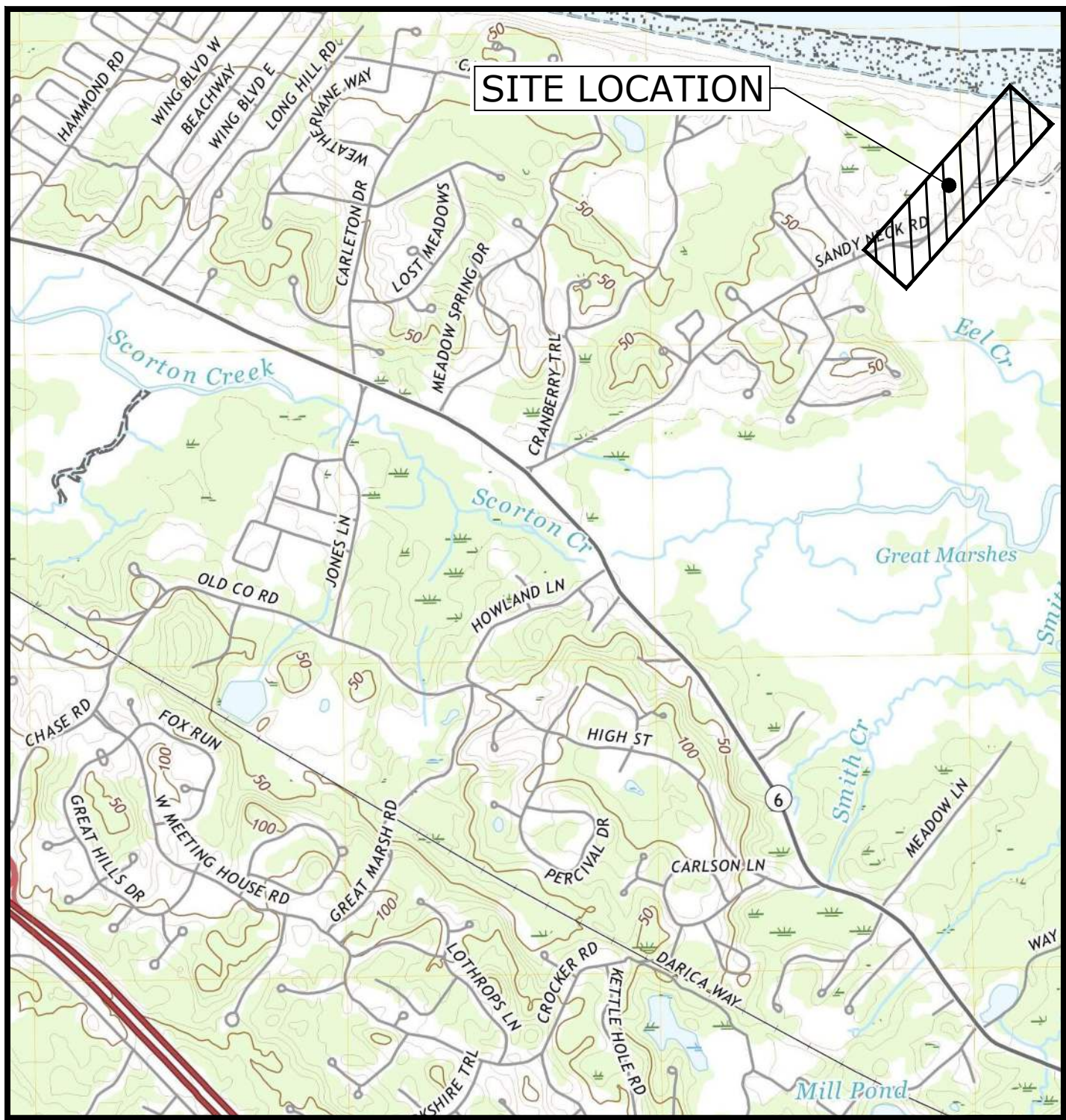


TOWN OF BARNSTABLE SANDY NECK BEACH FACILITY RECONFIGURATION

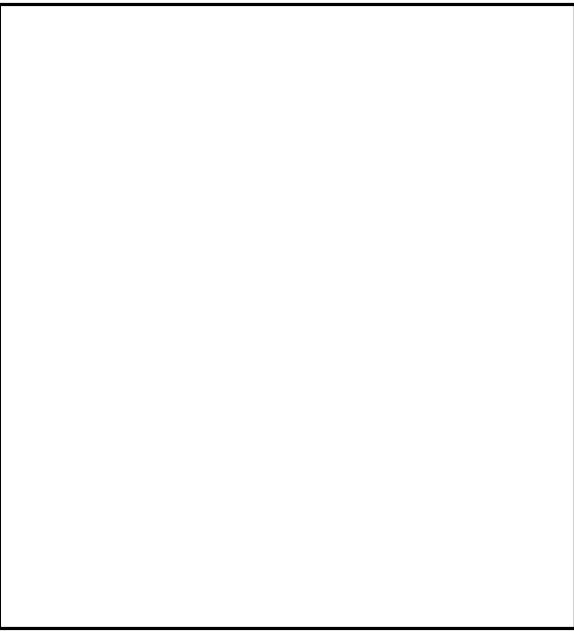
BID DOCUMENTS APRIL 2025



LOCATION MAP
SCALE: 1" = 1500'

PREPARED BY:

Tighe&Bond
53 Southampton Road
Westfield, MA 01085
(413) 562-1600



PREPARED FOR:
TOWN OF BARNSTABLE
367 MAIN STREET
HYANNIS, MA 02601

PROJECT LOCATION:
SANDY NECK BEACH PARK
425 SANDY NECK ROAD
W. BARNSTABLE, MA 02668

NINA COLEMAN - DIRECTOR OF NATURAL RESOURCES

COMPLETE SET 63 SHEETS

Last Saved: 3/27/2025 9:43pm By: G94turk
Project: 006186 - 2025 - 3 - 4 - 3pm By: G94turk
Title & Content: 1. B0633 Barnstable 008 - 1722 Sandy Neck Beach Facility Reconfiguration Drawings - Figures AutoCAD Sheet B0633-008-C-90% Site Plans.dwg

LIST OF DRAWINGS		
SHEET NO.	DRAWING NO.	DRAWING TITLE
GENERAL		
1	G-001	COVER SHEET
2	G-002	DRAWING LIST
3	G-003	GENERAL NOTES, LEGEND AND ABBREVIATIONS
4	C-100	OVERALL SITE PLAN
5	C-101	EXISTING CONDITIONS PLAN - 1
6	C-102	EXISTING CONDITIONS PLAN - 2
7	C-103	EXISTING CONDITIONS PLAN - 3
8	C-104	ORV EXISTING CONDITIONS PLAN
9	C-105	GATEHOUSE EXISTING CONDITIONS PLAN
10	C-201	WORK RESTRICTIONS, EROSION CONTROL AND DEMOLITION PLAN - 1
11	C-202	WORK RESTRICTIONS, EROSION CONTROL AND DEMOLITION PLAN - 2
12	C-203	WORK RESTRICTIONS, EROSION CONTROL AND DEMOLITION PLAN - 3
13	C-204	ORV WORK RESTRICTIONS, EROSION CONTROL AND DEMOLITION PLAN
14	C-205	GATEHOUSE EROSION CONTROL AND DEMOLITION PLAN
15	C-301	SITE LAYOUT AND MATERIALS PLAN - 1
16	C-302	SITE LAYOUT AND MATERIALS PLAN - 2
17	C-303	SITE LAYOUT AND MATERIALS PLAN - 3
18	C-304	ORV SITE LAYOUT AND MATERIALS PLAN
19	C-305	GATEHOUSE SITE LAYOUT AND MATERIALS PLAN
20	C-401	SITE GRADING AND DRAINAGE PLAN - 1
21	C-402	SITE GRADING AND DRAINAGE PLAN - 2
22	C-403	SITE GRADING AND DRAINAGE PLAN - 3
23	C-404	GATEHOUSE SITE GRADING AND DRAINAGE PLAN
24	C-405	GATEHOUSE SITE UTILITIES PLAN
25	C-501	SITE LANDSCAPING PLAN - 1
26	C-502	SITE LANDSCAPING PLAN - 2
27	C-503	SITE LANDSCAPING PLAN - 3
28	C-504	GATEHOUSE LANDSCAPING PLAN
29	C-505	SITE LANDSCAPING NOTES AND DETAILS
30	C-601	SITE DETAILS - 1
31	C-602	SITE DETAILS - 2
32	C-603	SITE DETAILS - 3
33	C-604	SITE DETAILS - 4
34	C-605	SITE DETAILS - 5
35	C-606	SITE DETAILS - 6 (SITE SECTIONS)
36	C-607	SITE DETAILS - 7 (SITE SECTIONS-2)
37	C-608	SITE DETAILS - 8
38	C-609	SITE DETAILS - 9
39	AD-101	GATEHOUSE EXISTING AND DEMOLITION FLOOR PLAN
40	A-101	GATEHOUSE ELEVATIONS - 1
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44	A-105	AIR COMPRESSOR BUILDING - 1 FLOOR PLAN AND SECTION
45	A-106	AIR COMPRESSOR BUILDING - 1 ELEVATIONS
46	A-107	AIR COMPRESSOR BUILDING - 2 FLOOR PLAN AND SECTION
47	A-108	AIR COMPRESSOR BUILDING - 2 ELEVATIONS
48	S-100	OBSERVATION DECK STAIRWAY, WALKWAY & PLATFORM PLAN AND NOTES
49	S-401	OBSERVATION DECK STAIRWAY, WALKWAY & PLATFORM PLANS AND SECTIONS
50	S-402	OBSERVATION DECK STAIRWAY AND WALKWAY PLANS AND SECTIONS
51	S-501	OBSERVATION DECK STAIRWAY, WALKWAY & PLATFORM DETAILS
52	H-001	HVAC LEGEND, ABBREVIATIONS, AND DETAILS
53	H-101	HVAC FLOOR PLAN AND SCHEDULES
54	E-001	ELECTRICAL LEGEND
55	E-002	ELECTRICAL GENERAL NOTES

LIST OF DRAWINGS		
SHEET NO.	DRAWING NO.	DRAWING TITLE
56	E-100	ELECTRICAL OVERALL SITE PLAN
57	ED-104	ORV ELECTRICAL DEMOLITION PLAN
58	ED-105	GATEHOUSE/GARAGE ELECTRICAL DEMOLITION PLAN
59	E-104	ORV ELECTRICAL SITE LAYOUT
60	E-105	GATEHOUSE/GARAGE ELECTRICAL SITE LAYOUT
61	E-401	ELECTRICAL PART PLANS
62	E-501	ELECTRICAL DETAILS
63	E-601	ELECTRICAL ONE-LINE DIAGRAMS AND SCHEDULES

Tighe&Bond

Sandy Neck
Beach Facility
Reconfiguration

Town of
Barnstable

Barnstable, MA

0	4/1/2025	BID SET
MARK	DATE	DESCRIPTION
PROJECT NO:		B0633-008
DATE:		9/5/24
FILE:		B0633-008-C-90% Site Plans.dwg
DRAWN BY:		TJG/SO
DESIGNED/CHECKED BY:		TJG/DJB
APPROVED BY:		BSH

DRAWING LIST

SCALE: NO SCALE

G-002

Last Saved: 3/27/2025 1:06:12 PM
Project: Sandy Neck Beach Facility Reconfiguration Drawings - Figures
Title: Sandy Neck Beach Facility Reconfiguration Drawings - Figures
User: AutoCAD
Sheet: B0633-008-C-90% Site Plans.dwg
Table: B0633-008-C-90% Site Plans.dwg

LEGEND

DESCRIPTION	EXISTING	PROPOSED
INTERMEDIATE CONTOURS	----	----
INDEX CONTOURS	-----25-----	-----25----- 23.20 + 0.0%
SPOT GRADE		
GRADE DIRECTION & MAGNITUDE		
STORM DRAIN		
SANITARY SEWER FORCE MAIN	-----SFM-----	
GRAVITY SANITARY SEWER	-----SS-----SS	-----SS-----SS
WATER SERVICE	-----W-----W	-----W-----W
UNDERGROUND ELECTRIC	-----E-----E	-----E-----E
TELEPHONE SERVICE	-----T-----T	-----T-----T
COMMUNICATION SERVICE	-----T-C-----T-C	-----T-C-----T-C
OVERHEAD UTILITY	-----OHW-----OHW	-----OE-----OE
CURB	=====	=====
EDGE OF PAVEMENT	=====	=====
FENCE - WOOD POST		
GUARDRAIL		
STORM DRAIN STRUCTURES	MANHOLE (M) CATCH BASIN (CB)	MANHOLE (M) CATCH BASIN (CB)
SANITARY SEWER MANHOLE	(S)	
SEPTIC SYSTEM PVC VENT	(V)	
WATER SERVICE STRUCTURES	HYDRANT (H) VALVE (V)	VALVE (V)
ELECTRIC SERVICE STRUCTURES	UTILITY POLE (P) LIGHT (L)	
EXISTING DUNE VEGETATION	~~~~~	
PROPOSED LIMITS OF WORK		-----
PARKING SPACES		(18)
TOAD EXCLUSION AREAS		
DUNE PLANTINGS		
PRIMARY DUNE RESTORATION AREAS		
BACK DUNE RESTORATION AREA		
SIGN AND POST		

LEGEND

RESOURCE AREAS	
WETLAND LIMIT	-----▲-----
100-FOOT BUFFER ZONE	-----
50-FOOT BUFFER ZONE	-----
(ACEC) AREAS OF CRITICAL ENVIRONMENTAL CONCERN	-----
BARRIER BEACH	-----
COASTAL BEACH & COASTAL DUNE	-----
LAND SUBJECT TO COASTAL STORM FLOWAGE	-----

LEGEND

DEMOLITION / GEOTECHNICAL	
EROSION & SEDIMENT CONTROL	=====
UTILITY TO BE ABANDONED	=====
UTILITY TO BE DEMOLISHED	-----x-----
ITEM TO BE DEMOLISHED	=====
CLEARING & CRUBBING	=====
TEST PIT	=====

TABLE OF TIDAL DATUMS
HAT / HTL = 6.5'
MHW = 4.2'
NAVD88 = 0.0
MLW = -5.4'

SURFACE RESTORATION NOTES

- ALL PAVEMENT DAMAGED BY THE CONTRACTOR'S OPERATIONS SHALL BE REPLACED IN ACCORDANCE WITH THE CONTRACT DOCUMENTS.
- ANY SIDEWALKS DAMAGED BY CONSTRUCTION ACTIVITIES SHALL BE REPLACED IN ACCORDANCE WITH TOWN OF BARNSTABLE DPW STANDARDS.
- PROVIDE SITE GRADING AT ACCESSIBLE SIDEWALK RAMPS, SIDEWALKS, AND BUILDING ENTRANCES THAT IS CONSISTENT WITH THE RELEVANT ACCESS REQUIREMENTS OF THE ARCHITECTURAL BARRIERS ACT (ABA), THE AMERICANS WITH DISABILITIES ACT (ADA), AND MA ARCHITECTURAL ACCESS BOARD REQUIREMENTS (AAB). SMALL CHANGES IN GRADE OVER RELATIVELY SHORT DISTANCES (E.G. AT PARKING SPACES, ACCESSIBLE ROUTES, AND RAMPS) MIGHT NOT BE CLEARLY DEPICTED WITHIN THE CONTOUR INTERVAL SHOWN. COMPLY WITH THE CRITERIA IN THESE STANDARDS. SELECT MAXIMUM SLOPE CRITERIA ARE REPRODUCED BELOW:
 - ACCESSIBLE PARKING STALL AND PASSENGER LOADING ZONE (ANY DIRECTION) SLOPE < 2.0%
 - LONGITUDINAL SLOPE ALONG ACCESSIBLE ROUTES < 5.0%
 - CROSS SLOPE ALONG ACCESSIBLE ROUTES < 2.0%
- PROTECT PROJECT FEATURES (E.G., WALLS, FENCES, MAIL BOXES, SIGNS, SIDEWALKS, CURBING, STAIRS, WALKWAYS, TREES, ETC.) FROM DAMAGE DURING CONSTRUCTION, INCLUDING PROVIDING TEMPORARY SUPPORTS, WHEN APPROPRIATE.
- IF REMOVAL OF PROJECT FEATURES IS REQUIRED IN ORDER TO PERFORM THE PROPOSED WORK, REMOVE THOSE SITE FEATURES ONLY UPON APPROVAL OF ENGINEER. REPLACE ALL REMOVED PROJECT FEATURES; NEW ITEMS SHALL BE EQUAL OR BETTER IN QUALITY AND CONDITION TO THE ITEMS REMOVED.
- EXISTING SURVEY MONUMENTS DISTURBED BY THE CONTRACTOR SHALL BE REPLACED BY A LAND SURVEYOR LICENSED IN THE STATE IN WHICH THE WORK IS PERFORMED AT NO ADDITIONAL COST TO THE OWNER.
- COORDINATE THE ADJUSTMENT OF EXISTING UTILITY STRUCTURES WITH EACH RESPONSIBLE UTILITY OWNER PRIOR TO RECONSTRUCTION AND/OR PAVING OPERATIONS. RAISE ALL STRUCTURES TO FINISHED GRADES PRIOR TO THE END OF THE CONSTRUCTION SEASON AND PRIOR TO FINISHED PAVING.
- REPAIR DISTURBED PAVED SURFACES AT THE END OF EACH WORK WEEK, UNLESS OTHERWISE APPROVED/REQUIRED BY THE OWNER.
- TRANSFER ALL TEMPORARY BENCHMARKS, AS NECESSARY.
- ACCOMMODATE PEDESTRIAN TRAFFIC WHERE A SIDEWALK IS TO BE CLOSED FOR SAFETY. "SIDEWALK CLOSED HERE" SIGNS SHALL BE USED AT THE NEAREST SAFE INTERSECTION. SEE TRAFFIC CONTROL DETAILS FOR SIGN INFORMATION.
- REGRADE ALL UNPAVED AREAS DISTURBED BY THE WORK AS REQUIRED. REPAIR/REPLACE PAVED SURFACES DISTURBED BY THE WORK IN-KIND, UNLESS OTHERWISE NOTED. RESTORE SURFACES TO EXISTING OR PROPOSED CONDITIONS AS INDICATED ON THE DRAWINGS.
- PROVIDE A SMOOTH, FLUSH TRANSITION BETWEEN ALL NEW AND EXISTING PAVEMENTS AND WALKING SURFACES.

ABBREVIATIONS

ABDN(D)	ABANDON(ED)
AC	ASBESTOS CEMENT PIPE
ACEC	AREA OF CRITICAL ENVIRONMENTAL CONCERN
BB	BOTTOM OF BERM
BC	BITUMINOUS CURB
BFP	BACK FLOW PREVENTOR
BIT	BITUMINOUS
BL	BASELINE
BLDG	BUILDING
BND	BOUND
BOC	BOTTOM OF CURB
BOT	BOTTOM
BS	BOTTOM OF STEP
BW	BOTTOM OF WALL
CATV	CABLE TELEVISION
CB	CATCH BASIN
CEM	CEMENT
CI	CAST IRON PIPE
CL	CENTERLINE
CLF	CHAIN LINK FENCE
CO	CLEAN OUT
CONC	CONCRETE
CPP	CORRUGATED POLYETHYLENE PIPE
CY	CUBIC YARD
DH	DRILL HOLE
DI	DUCTILE IRON PIPE
DIA	DIAMETER
DMH	DRAIN MANHOLE
E	EAST
EF	EACH FACE
EG	EXISTING GRADE
EL/ELEV	ELEVATION
ELEC	ELECTRIC
EMH	ELECTRIC MANHOLE
EOP	EDGE OF PAVEMENT
EW	EACH WAY
EXIST	EXISTING
FES	FLARED END SECTION
FF	FINISH FLOOR
FFE	FINISH FLOOR ELEVATION
FM	FORCE MAIN
G	GAS
GG	GAS GATE
GRAN	GRANITE
GTD	GRADE TO DRAIN
HC	HANDICAP
HDPE	HIGH DENSITY POLYETHYLENE
HMA	HOT MIX ASPHALT
HYD	HYDRANT
IN	INCHES
INV	INVERT
IP	IRON PIN
L	LENGTH OF CURB
LP	LIGHT POLE
LT	LEFT
MAX	MAXIMUM
MH	MANHOLE
MIN	MINIMUM
MISC	MISCELLANEOUS
MON	MONUMENT
MJ	MECHANICAL JOINT

ABBREVIATIONS CONT'D

N	NORTH
NITC	NOT IN THIS CONTRACT
NTS	NOT TO SCALE
N/A	NOT APPLICABLE
N/F	NOW OR FORMERLY
OC	ON CENTER
OCS	OUTLET CONTROL STRUCTURE
OH	OVERHEAD
ORV	OFF-ROAD VEHICLE
PB	PLANT BED
PC	POINT OF CURVATURE
PCC	POINT OF COMPOUND CURVATURE
PCPP	PERFORATED CORRUGATED POLYETHYLENE PIPE
PERF	PERFORATED
PI	POINT OF INTERSECTION
PRC	POINT OF REVERSE CURVATURE
PSF	POUNDS PER SQUARE FOOT
PSI	POUNDS PER SQUARE INCH
P.T.	PRESSURE TREATED
PVC	POLYVINYLCHLORIDE
PVMT	PAVEMENT
R	RADIUS
RCP	REINFORCED CONCRETE PIPE
RD	ROOF DRAIN
REV	REVISION
ROW	RIGHT OF WAY
RT	RIGHT
R&D	REMOVE AND DISPOSE
R&R	REMOVE AND RESET
R&S	REMOVE AND STACK
S	SOUTH
SAN	SANITARY
SCH	SCHEDULE
SF	SQUARE FOOT
SMH	SEWER MANHOLE
SS	STAINLESS STEEL
STA	STATION
STL	STEEL
STRM	STORM
T	TANGENT LENGTH
TB	TOP OF BERM
TC	TOP OF CURB
TEL	TEL-DATA
TP	TEST PIT
TS	TOP OF STEP
TW	TOP OF WALL
TYP	TYPICAL
UP	UTILITY POLE
W	WATER
WG	WATER GATE
WV	WATER VALVE
XFMR	TRANSFORMER

BASE PLAN NOTES

- THE EXISTING CONDITIONS INFORMATION SHOWN ON THE DRAWINGS IS BASED ON THE FOLLOWING:
 - SURVEY DATA PROVIDED BY THE WOODS HOLE GROUP AND THE TOWN OF BARNSTABLE IN AUGUST 2022 AND APRIL 2023
 - THE RESOURCE AREA BOUNDARIES DEPICTED ON THE DRAWINGS WERE DELINEATED BY THE WOODS HOLE GROUP
 - UTILITY LOCATIONS SHOWN WERE PLOTTED FROM INFORMATION SUPPLIED BY THE TOWN OF BARNSTABLE, RESPECTIVE UTILITY COMPANIES, AND DATA OBTAINED FROM FIELD SURVEYS AND AS BUILT DRAWINGS. THE ACCURACY AND COMPLETENESS OF SUBSURFACE INFORMATION SHOWN ON THESE DRAWINGS IS NOT GUARANTEED. DETERMINE THE LOCATIONS AND ELEVATIONS OF ALL UTILITIES WHICH MAY AFFECT CONSTRUCTION OPERATIONS.
 - THE DRAWINGS ARE BASED ON THE FOLLOWING DATUMS: HORIZONTAL NAD83 ; VERTICAL NAVD88
 - THE EXISTING CONDITIONS SHOWN ARE APPROXIMATE. FIELD VERIFY EXISTING CONDITIONS.
- GENERAL NOTES**
- NOTIFY DIGSAFE AT 1-888-344-7233 AND OTHER UTILITY OWNERS IN THE AREA NOT ON THE DIGSAFE LIST AT LEAST 72 HOURS PRIOR TO ANY DIGGING, TRENCHING, ROCK REMOVAL, DEMOLITION, BORING, BACKFILLING, GRADING, LANDSCAPING, OR ANY OTHER EARTH MOVING OPERATIONS.
 - LOCATIONS OF EXISTING UTILITIES ARE APPROXIMATE. IN ADDITION, SOME UTILITIES MAY NOT BE SHOWN. DETERMINE THE EXACT LOCATION OF UTILITIES BY TEST PIT OR OTHER METHODS, AS NECESSARY TO PREVENT DAMAGE TO UTILITIES AND/OR INTERRUPTIONS IN UTILITY SERVICE. PERFORM TEST PIT EXCAVATIONS AND OTHER INVESTIGATIONS TO LOCATE UTILITIES, AND PROVIDE THIS INFORMATION TO THE ENGINEER, PRIOR TO CONSTRUCTING THE PROPOSED IMPROVEMENTS. LOCATE ALL EXISTING UTILITIES TO BE CROSSED BY HAND EXCAVATION.
 - NOT ALL OF THE UTILITY SERVICES TO BUILDINGS ARE SHOWN. THE CONTRACTOR SHALL ANTICIPATE THAT EACH PROPERTY HAS SERVICE CONNECTIONS FOR THE VARIOUS UTILITIES.
 - BOLD TEXT AND LINES INDICATE PROPOSED WORK. LIGHT TEXT AND LINES INDICATE APPROXIMATE EXISTING CONDITIONS.
 - TIGHE & BOND ASSUMES NO RESPONSIBILITY FOR ANY ISSUES, LEGAL OR OTHERWISE, RESULTING FROM CHANGES MADE TO THESE DRAWINGS WITHOUT WRITTEN AUTHORIZATION FROM TIGHE & BOND.
 - EXCAVATE ADDITIONAL TEST PITS TO LOCATE EXISTING UTILITIES AS DIRECTED OR APPROVED BY THE ENGINEER.
 - NOTIFY THE ENGINEER OF ANY UTILITIES IDENTIFIED DURING CONSTRUCTION THAT ARE NOT SHOWN ON THE DRAWINGS OR THAT DIFFER IN SIZE OR MATERIAL.
 - THE CONTRACTOR IS RESPONSIBLE FOR SITE SAFETY; COORDINATION WITH THE OWNER, ALL SUBCONTRACTORS, AND WITH OTHER CONTRACTORS WORKING WITHIN THE LIMITS OF WORK, THE MEANS AND METHODS OF CONSTRUCTING THE PROPOSED WORK.
 - OBTAIN, PAY FOR AND COMPLY WITH PERMITS, NOTICES AND FEES NECESSARY TO COMPLETE THE WORK. ARRANGE AND PAY FOR NECESSARY INSPECTIONS AND APPROVALS FROM THE JURISDICTIONAL AUTHORITIES.
 - SHORE UTILITY TRENCHES WHERE FIELD CONDITIONS DICTATE AND/OR WHERE REQUIRED BY LOCAL, STATE AND FEDERAL HEALTH AND SAFETY CODES.
 - FIELD VERIFY ALL EXISTING CONDITIONS PRIOR TO CONSTRUCTION. IF FIELD CONDITIONS ARE OBSERVED THAT VARY SIGNIFICANTLY FROM THOSE SHOWN ON THE DRAWINGS, IMMEDIATELY NOTIFY THE ENGINEER IN WRITING FOR RESOLUTION OF THE CONFLICTING INFORMATION.
 - PROTECT AND MAINTAIN ALL UTILITIES IN THE AREAS UNDER CONSTRUCTION DURING THE WORK. LEAVE ALL PIPES AND STRUCTURES WITHIN THE LIMITS OF THE CONTRACT IN A CLEAN AND OPERABLE CONDITION AT THE COMPLETION OF THE WORK. TAKE ALL NECESSARY PRECAUTIONS TO PREVENT SAND AND SILT FROM DISTURBED AREAS FROM ENTERING THE DRAINAGE SYSTEM.
 - NOTIFY THE ENGINEER IN WRITING OF ANY CONFLICT, ERROR, AMBIGUITY, OR DISCREPANCY WITH THE PLANS OR BETWEEN THE PLANS AND ANY APPLICABLE LAW, REGULATION, CODE, STANDARD SPECIFICATION, OR MANUFACTURER'S INSTRUCTIONS.
 - THE CONTRACTOR IS RESPONSIBLE FOR SUPPORT OF EXISTING UTILITIES AND REPAIR OR REPLACEMENT COSTS OF UTILITIES DAMAGED DURING CONSTRUCTION, WHETHER ABOVE OR BELOW GRADE. REPLACE DAMAGED UTILITIES IMMEDIATELY AT NO ADDITIONAL COST TO THE OWNER AND AT NO COST TO THE PROPERTY OWNER.
 - TAKE NECESSARY MEASURES AND PROVIDE CONTINUOUS BARRIERS OF SUFFICIENT TYPE, SIZE, AND STRENGTH TO PREVENT ACCESS TO ALL WORK AND STAGING AREAS AT THE COMPLETION OF EACH DAYS WORK.
 - NO OPEN TRENCHES WILL BE ALLOWED OVER NIGHT. THE USE OF ROAD PLATES TO PROTECT THE EXCAVATION WILL BE CONSIDERED UPON REQUEST, BUT BACKFILLING IS PREFERRED.
 - THE CONTRACTOR IS RESPONSIBLE FOR ALL NECESSARY TRAFFIC CONTROL/SAFETY DEVICES TO ENSURE SAFE VEHICULAR AND PEDESTRIAN ACCESS THROUGH THE WORK AREA, OR FOR SAFELY IMPLEMENTING DETOURS AROUND THE WORK AREA. PERFORM TRAFFIC CONTROL IN ACCORDANCE WITH THE CONTRACTOR'S APPROVED TRAFFIC CONTROL PLAN.
 - THE CONTRACTOR IS RESPONSIBLE FOR OBTAINING ROAD OPENING PERMIT TO COMPLETE WORK WITHIN THE PUBLIC RIGHT OF WAY. ANY ROAD CLOSURES PROPOSED TO FACILITATE WORK REQUIRE TRAFFIC MANAGEMENT PLAN SUBMITTAL, REVIEW, AND APPROVAL FROM THE TOWN PRIOR TO START OF CONSTRUCTION.
 - MAINTAIN EMERGENCY ACCESS TO ALL PROPERTIES WITHIN THE PROJECT AREA AT ALL TIMES DURING CONSTRUCTION.
 - WHEN WORKING IN THE ROAD, PROVIDE THE OWNER AND LOCAL FIRE/POLICE/SCHOOL AUTHORITIES A DETAILED PLAN OF APPROACH INDICATING METHODS OF PROPOSED TRAFFIC ROUTING ON A DAILY BASIS. PROVIDE COORDINATION TO ENSURE COMMUNICATION AND COORDINATION BETWEEN THE OWNER, CONTRACTOR AND LOCAL FIRE/POLICE/SCHOOL AUTHORITIES THROUGHOUT THE CONSTRUCTION PERIOD.
 - REMOVE AND DISPOSE OF ALL CONSTRUCTION-RELATED WASTE MATERIALS AND DEBRIS IN STRICT ACCORDANCE WITH ALL APPLICABLE LOCAL, STATE, AND FEDERAL LAWS.
 - THE TERM "DEMOLISH" USED ON THE DRAWINGS MEANS TO REMOVE AND DISPOSE OF IN ACCORDANCE WITH LOCAL, STATE, AND FEDERAL REQUIREMENTS.
 - THE TERM "ABANDON" USED ON THE DRAWINGS MEANS TO LEAVE IN PLACE AND TAKE APPROPRIATE MEASURES TO DECOMMISSION AS SPECIFIED OR NOTED ON THE DRAWINGS.
 - ALL PROPOSED WORK MAY BE ADJUSTED IN THE FIELD BY THE OWNER'S PROJECT REPRESENTATIVE TO MEET EXISTING CONDITIONS.

EROSION CONTROL AND RESOURCE AREA PROTECTION NOTES

- PROVIDE ALL EROSION CONTROL MEASURES SHOWN, SPECIFIED, REQUIRED BY PERMIT, AND/OR REQUIRED BY THE ENGINEER PRIOR TO ANY CONSTRUCTION OR IMMEDIATELY UPON REQUEST. MAINTAIN SUCH CONTROL MEASURES UNTIL FINAL SURFACE TREATMENTS ARE IN PLACE AND/OR UNTIL PERMANENT VEGETATION IS ESTABLISHED. INSPECT AFTER EACH RAINSTORM AND DURING MAJOR STORM EVENTS TO CONFIRM THAT ALL SEDIMENTATION AND EROSION CONTROL MEASURES REQUIRED ARE IN PLACE AND EFFECTIVE.
- INSTALL SILT SACKS OR OTHER APPROVED SEDIMENTATION BARRIERS IN/AT ALL CATCH BASINS IN THE PROJECT AREA.
- COMPACT, STABILIZE, AND SEED SIDE SLOPES, SHOULDER AREAS AND DISTURBED VEGETATED AREAS IN ACCORDANCE WITH THE CONTRACT DOCUMENTS AND AS REQUIRED BY PERMITS. GRADE SIDE SLOPES, SHOULDER AREAS AND DISTURBED VEGETATED AREAS TO A MAXIMUM SLOPE OF 3 HORIZONTAL TO 1 VERTICAL (3H:1V), WHERE POSSIBLE. PROVIDE BIODEGRADABLE EROSION CONTROL BLANKETS TO PREVENT EROSION WHERE SLOPES ARE STEEPER THAN 3H:1V.
- SETTLE OR FILTER ALL SILT-LADEN WATER FROM DEWATERING ACTIVITIES IN A SEDIMENTATION OR FILTER BAG TO REMOVE SEDIMENTS PRIOR TO RELEASE USING A SEDIMENTATION OR FILTER BAG LOCATED DOWN-GRADIENT OF THE DEWATERED AREA.
- REMOVE AND PROPERLY DISPOSE OF SILT TRAPPED AT BARRIERS IN UPLAND AREAS OUTSIDE BUFFER ZONES. REMOVE MATERIALS DEPOSITED IN ANY TEMPORARY SETTLING BASINS AT THE COMPLETION OF THE PROJECT. RESTORE ALL DISTURBED AREAS TO THEIR PRECONSTRUCTION CONDITION.
- SWEEP, COLLECT, REMOVE AND DISPOSE OF ANY SEDIMENT TRACKED ONTO PUBLIC RIGHT-OF-WAYS AT THE END OF EACH DAY.
- LOAM AND SEED ALL DISTURBED VEGETATED AREAS TO ESTABLISH COVER AND STABILIZATION AS SOON AS POSSIBLE FOLLOWING DISTURBANCE.
- MAINTAIN AN ADDITIONAL SUPPLY OF EROSION CONTROL MEASURES ON-SITE FOR EMERGENCY REPAIRS.
- STORE FUEL, OIL, PAINT, OR OTHER HAZARDOUS MATERIALS IN A SECONDARY CONTAINER AND REMOVE TO A SECURE LOCKED AND COVERED AREA DURING NON-WORK HOURS.
- PROVIDE A SUPPLY OF ABSORBENT SPILL RESPONSE MATERIALS SUCH AS BOOMS, BLANKETS, AND OIL ABSORBENT MATERIALS AT THE CONSTRUCTION SITE AT ALL TIMES TO CLEAN UP POTENTIAL SPILLS OF HAZARDOUS MATERIALS. IMMEDIATELY REPORT SPILLS OF HAZARDOUS MATERIALS TO THE STATE ENVIRONMENTAL AGENCY AND THE MUNICIPALITY WHERE THE WORK IS OCCURRING.

Tighe&Bond

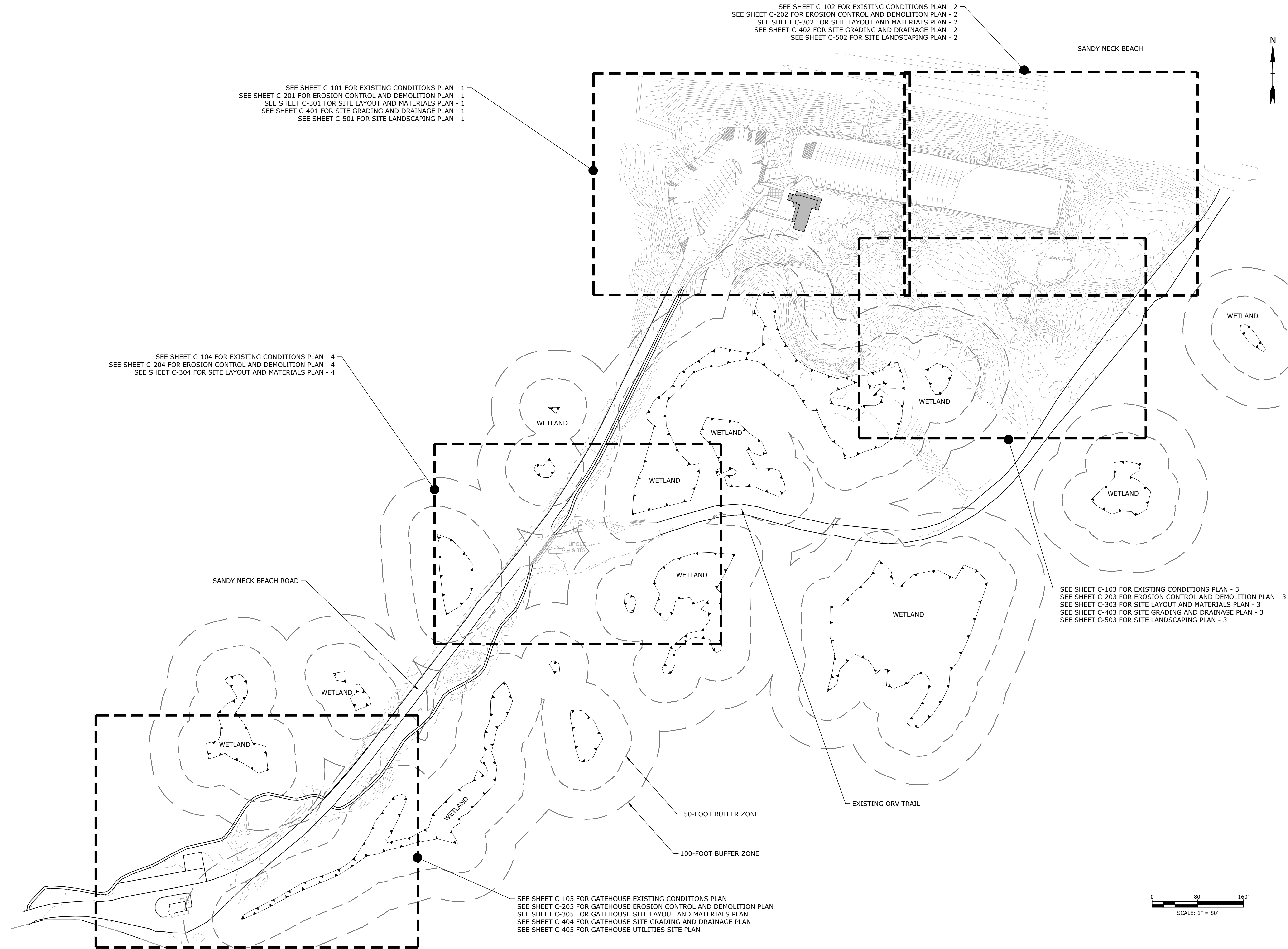
Sandy Neck Beach Facility Reconfiguration

Town of Barnstable

Barnstable, MA

0	4/1/2025	BID SET
MARK	DATE	DESCRIPTION
PROJECT NO:		B0633-008
DATE:		9/5/24
FILE:		B0633-008-C-90% Site Plans.dwg
DRAWN BY:		TJG/SO
DESIGNED/CHECKED BY:		TJG/DJB
APPROVED BY:		BSH
GENERAL NOTES, LEGEND, AND ABBREVIATIONS		
SCALE:		NO SCALE
G-003		

Last Saved: 3/27/2025 11:59am By: J. P. Bondi
Project: Sandy Neck Beach Facility Reconfiguration Drawings - Figures
Figure: B0633-008-C-90% Site Plans.dwg
Tighe & Bondi, Inc. B0633 Barnstable 008 - 1722 Sandy Neck Beach Facility Reconfiguration Drawings - Figures



Tighe&Bond

Sandy Neck Beach Facility Reconfiguration

Town of Barnstable

Barnstable, MA

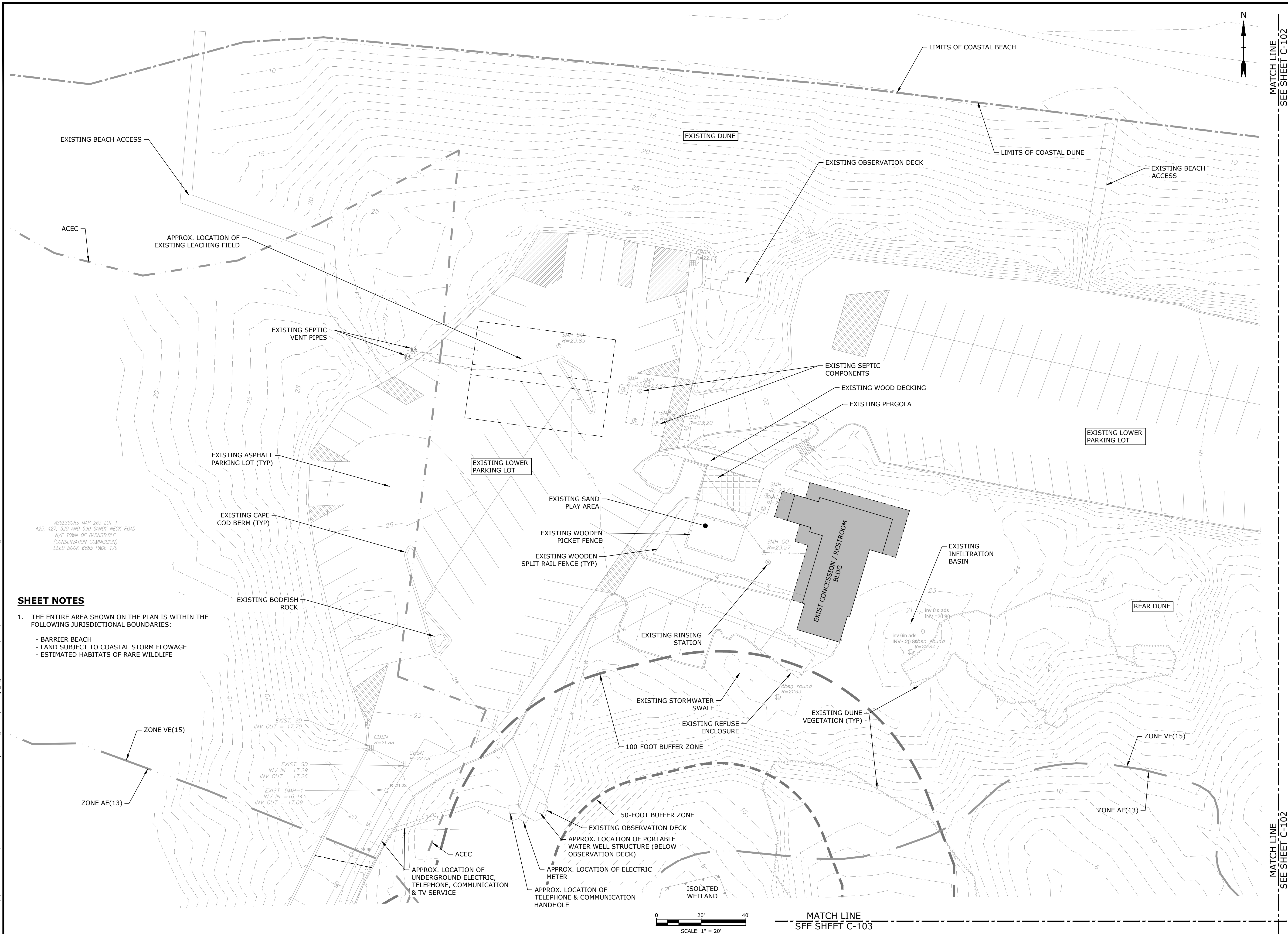
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DRAWN BY:		TJG/SO
DESIGNED/CHECKED BY:		TJG/DJB
APPROVED BY:		BSH
OVERALL SITE PLAN		
SCALE:		1" = 80'
C-100		

0	4/1/2025	BID SET
MARK	DATE	DESCRIPTION
PROJECT NO:		B0633-008
DATE:		9/5/24
FILE:		B0633-008-C-90% Site Plans.dwg
DRAWN BY:		TJG/SO
DESIGNED/CHECKED BY:		TJG/DJB
APPROVED BY:		BSH

EXISTING CONDITIONS
PLAN - 1

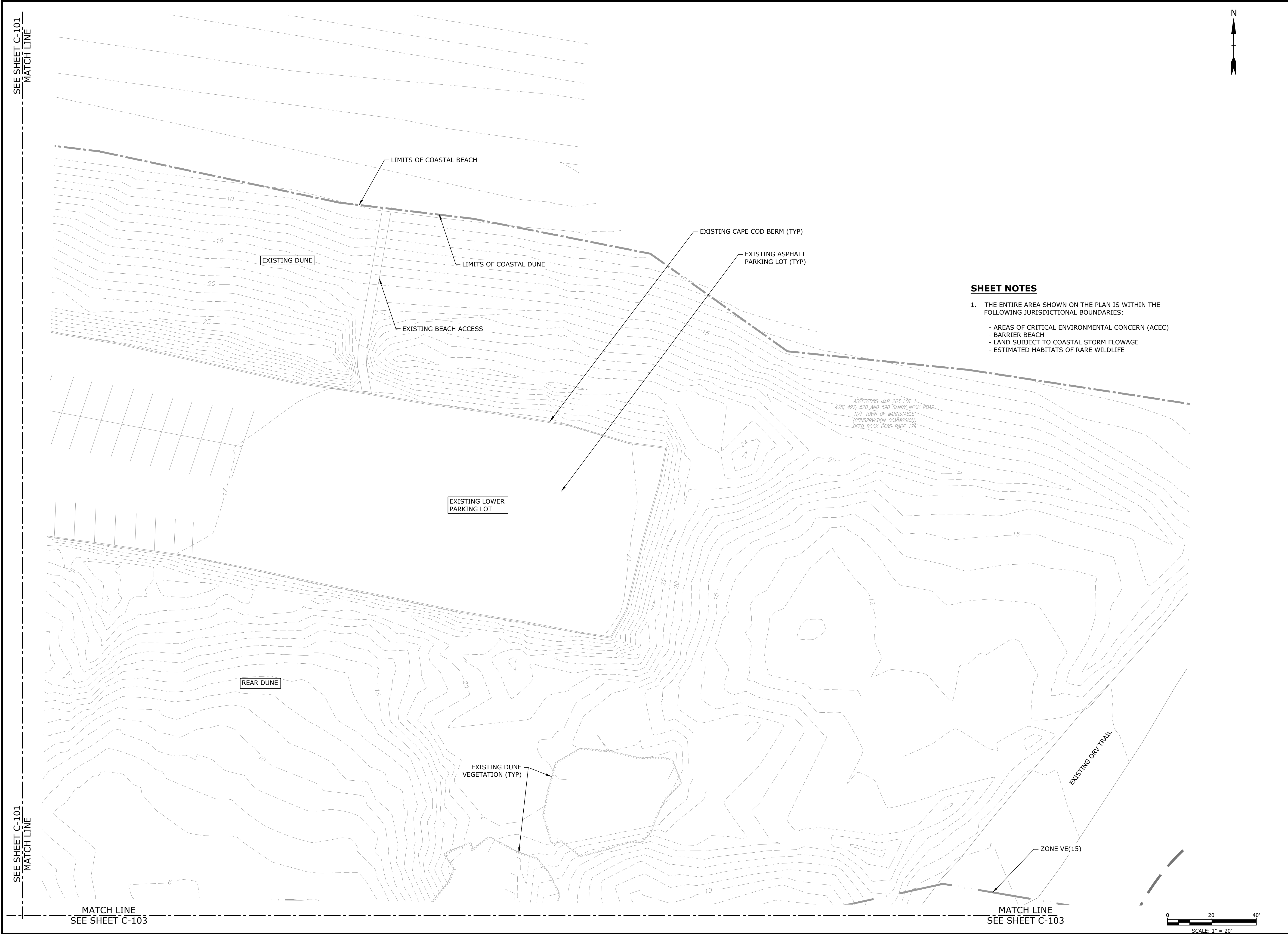
SCALE: 1" = 20'

C-101



Last Saved: 3/27/2025
 Plotted On: Mar 27, 2025 - 11:59am By: APaoi
 Title & Bond: 31VB0633 Barnstable 008 - FY22 Sandy Neck Beach Facility Reconfiguration Drawings
 Figures/AutoCAD/Sheet/B0633-008-C-90% Site Plans.dwg

Last Saved: 3/27/2025 11:59am By: J. P. Belli
Project: B0633-008-C-90% Site Plans.dwg
Title: Sandy Neck Beach Facility Reconfiguration Drawings
Figures: AutoCAD Sheet: B0633-008-C-90% Site Plans.dwg



- SHEET NOTES**
- THE ENTIRE AREA SHOWN ON THE PLAN IS WITHIN THE FOLLOWING JURISDICTIONAL BOUNDARIES:
- AREAS OF CRITICAL ENVIRONMENTAL CONCERN (ACEC)
 - BARRIER BEACH
 - LAND SUBJECT TO COASTAL STORM FLOWAGE
 - ESTIMATED HABITATS OF RARE WILDLIFE

Tighe&Bond

Sandy Neck Beach Facility Reconfiguration

Town of Barnstable

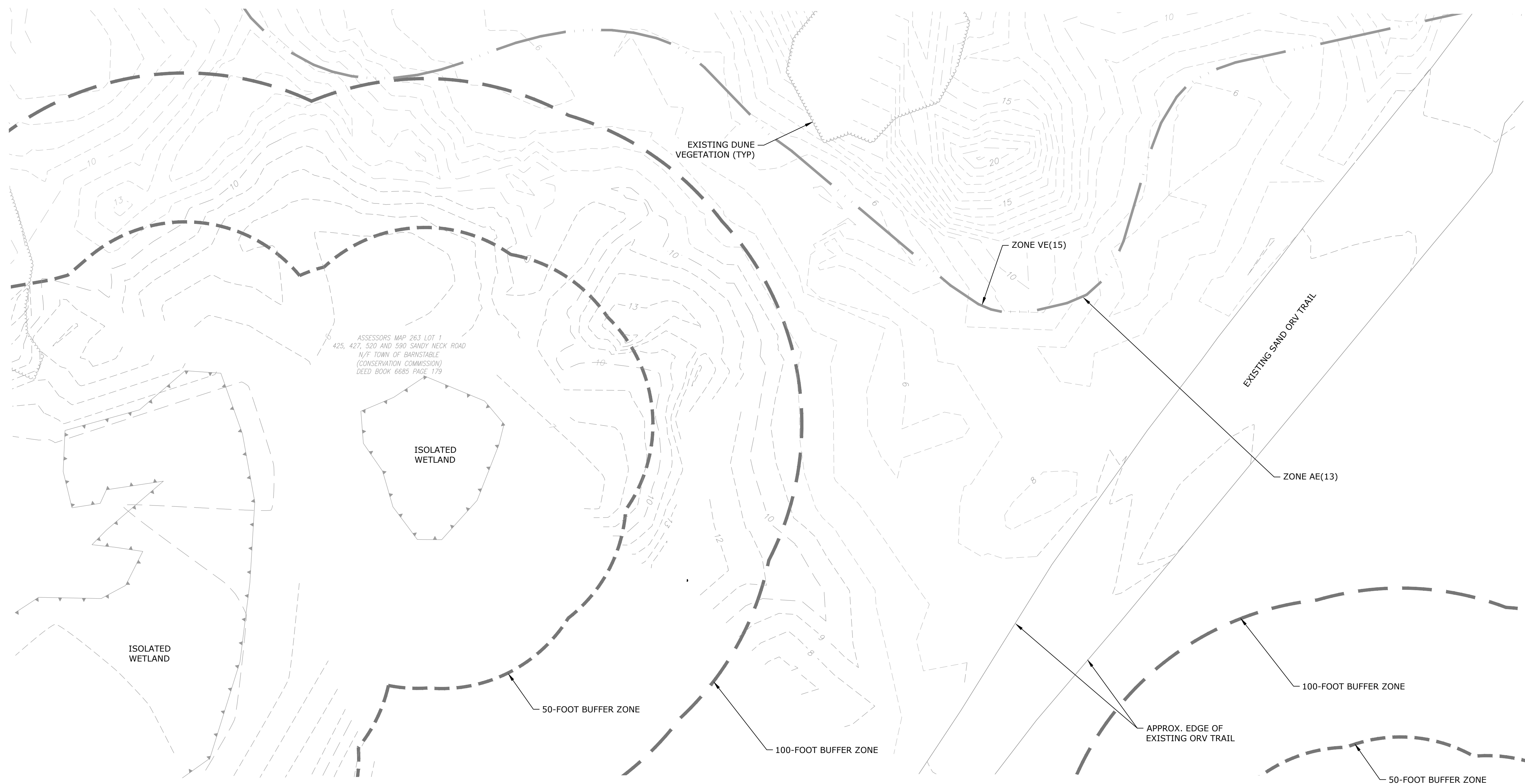
Barnstable, MA

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MARK	DATE	DESCRIPTION
PROJECT NO: B0633-008		
DATE: 9/5/24		
FILE: B0633-008-C-90% Site Plans.dwg		
DRAWN BY: TJG/SO		
DESIGNED/CHECKED BY: TJG/DJB		
APPROVED BY: BSH		
EXISTING CONDITIONS PLAN - 2		
SCALE:		1" = 20'

C-102



SEE SHEET C-101
MATCH LINE



1. THE ENTIRE AREA SHOWN ON THE PLAN IS WITHIN THE FOLLOWING JURISDICTIONAL BOUNDARIES:
 - AREAS OF CRITICAL ENVIRONMENTAL CONCERN (ACEC)
 - BARRIER BEACH
 - LAND SUBJECT TO COASTAL STORM FLOWAGE
 - ESTIMATED HABITATS OF RARE WILDLIFE

Sandy Neck Beach Facility Reconfiguration

Town of
Barnstable

Barnstable, MA

0	4/1/2025	BID SET
MARK	DATE	DESCRIPTION
PROJECT NO: B0633-008		
DATE: 9/5/24		
FILE: B0633-008-C-90% Site Plans.dwg		
DRAWN BY: TJG/SO		
DESIGNED/CHECKED BY: TJG/DJB		
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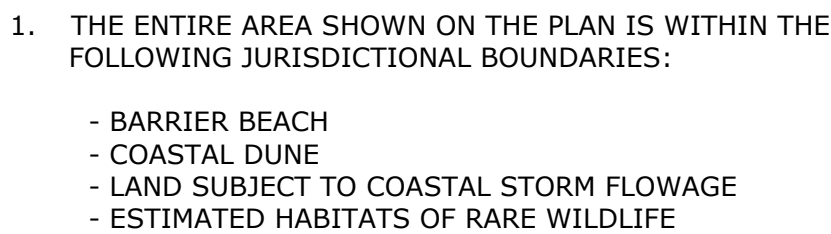
EXISTING CONDITIONS
PLAN - 3

SCALE: $1'' = 20'$

C-103

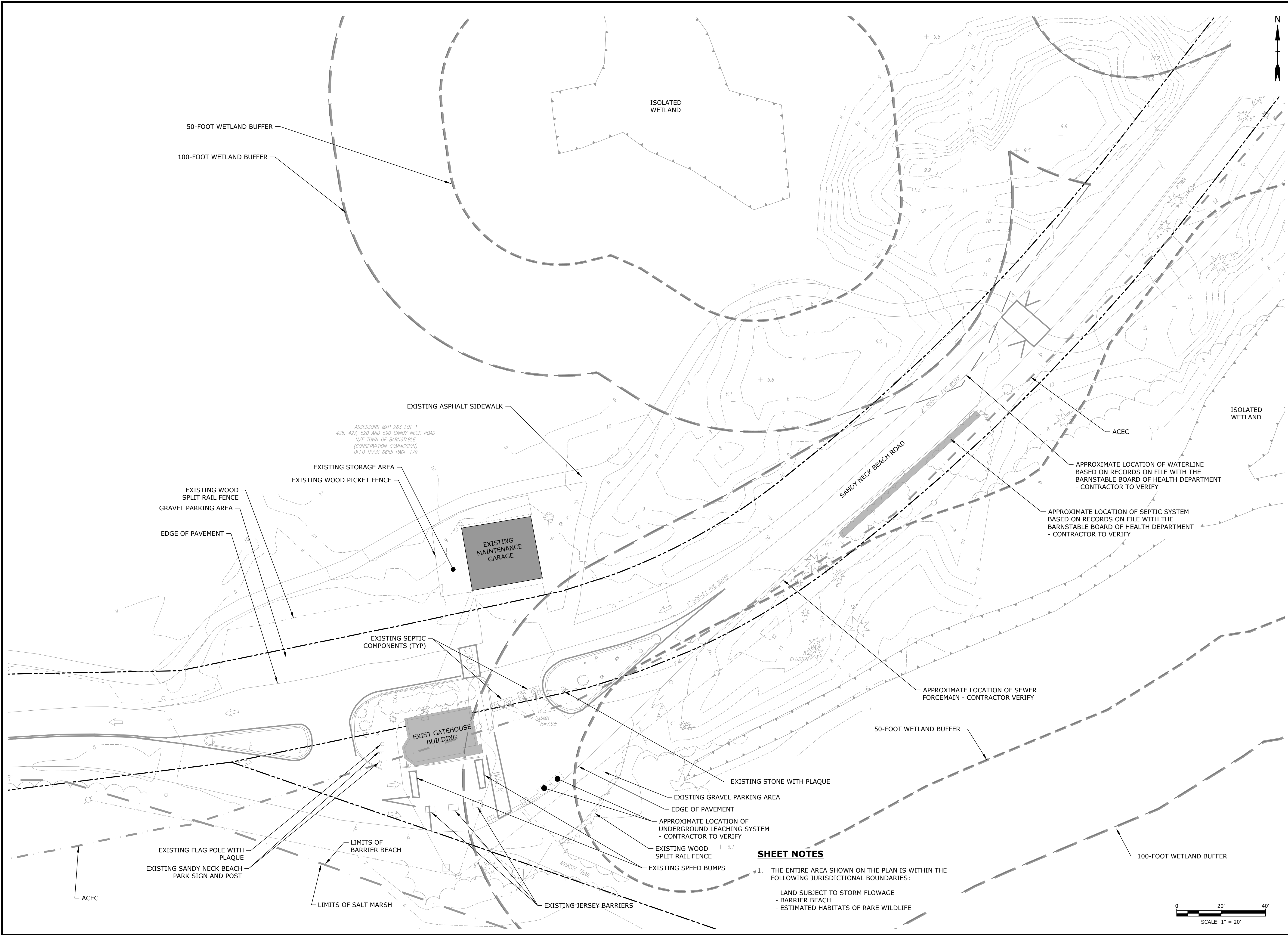


Barnstable, MA

C-104

Plot On: Mar 27, 2025 11:59am By: APooli
 Plotted On: Mar 27, 2025 11:59am By: APooli
 File & Bond: J:\B06323 Barnstable\008 - FY22 Sandy Neck Beach Facility Reconfiguration\Drawings - Figures\AutoCAD\Sheet\B0633-008-C-90% Site Plans.dwg
 Last Saved: 3/27/2025

Last Saved: 3/21/2025 11:59am By: JRP
Tighe & Bond
File: B0633-008-C-90% Gatehouse Site Plans.dwg
Figure: AutocAD/Sheet/B0633-008-C-90% Gatehouse Site Plans.dwg



SHEET NOTES

1. THE ENTIRE AREA SHOWN ON THE PLAN IS WITHIN THE FOLLOWING JURISDICTIONAL BOUNDARIES:
 - LAND SUBJECT TO STORM FLOWAGE
 - BARRIER BEACH
 - ESTIMATED HABITATS OF RARE WILDLIFE

Sandy Neck Beach Facility Reconfiguration

Town of Barnstable

Barnstable, MA

0	4/1/2025	BID SET
MARK	DATE	DESCRIPTION
PROJECT NO:		B0633-008
DATE:		6/27/24
FILE: B0633-008-C-90% Gatehouse Site Plans.dwg		
DRAWN BY: TJG/SO		
DESIGNED/CHECKED BY: TJG/DJB		
APPROVED BY: BSH		

GATEHOUSE EXISTING CONDITIONS PLAN

SCALE: 1" = 20'

C-105

SHEET NOTES

1. THE ENTIRE AREA SHOWN ON THE PLAN IS WITHIN THE FOLLOWING JURISDICTIONAL BOUNDARIES:
 - BARRIER BEACH
 - LAND SUBJECT TO COASTAL STORM FLOWAGE
 - ESTIMATED HABITATS OF RARE WILDLIFE
2. PUBLIC ACCESS TO THE EXISTING UPPER PARKING LOT, EXISTING DUNE, AND BEACH SHALL BE MAINTAINED THROUGH OCTOBER 13TH. CONSTRUCTION IN THE UPPER LOT AND DUNE IS ALLOWED FROM OCTOBER 14TH UNTIL MARCH 31ST. CONSTRUCTION IN THE TOAD EXCLUSION AREAS A AND B ALLOWED OCTOBER 14TH THROUGH MARCH 31ST. TOAD EXCLUSION FENCING SHALL BE REMOVED BY OTHERS BY END OF DAY MARCH 31ST WITH NO HEAVY MACHINERY ACCESS TO THE DUNE AREAS AFTER MARCH 31ST.
3. PUBLIC ACCESS TO THE EXISTING LOWER PARKING LOT SHALL BE MAINTAINED THROUGH SEPTEMBER 14TH. CONSTRUCTION IN THE LOWER LOT AND REAR DUNE, INCLUSIVE OF TOAD EXCLUSION AREAS C AND D IS ANTICIPATED TO OCCUR FROM SEPTEMBER 15TH UNTIL MARCH 31ST. FENCING SHALL BE REMOVED BY OTHERS BY END OF DAY MARCH 31ST WITH NO HEAVY MACHINERY ACCESS TO THE REAR DUNE AFTER MARCH 31ST.

DO NOT DISTURB EXISTING SEPTIC SYSTEM, EQUIPMENT, OR STRUCTURES DURING CONSTRUCTION. PROTECT AREA AS REQUIRED

EXISTING PVC VENT (TYP)
PROTECT AS REQUIRED

DEMOLISH EXISTING ASPHALT PAVEMENT AND CURBING (TYP)

REMOVE AND STOCKPILE SUBBASE MATERIAL ONSITE FOR REUSE (TYP)

EROSION CONTROL BARRIER (TYP)

LIMIT OF WORK (TYP)

REMOVE AND STORE EXISTING BODFISH ROCK

DEMOLISH EXISTING DRAINAGE STRUCTURES

DO NOT DISTURB EXISTING DRAIN MANHOLES, CATCH BASINS, AND PIPING IN SANDY NECK ROAD (TYP)

TEMPORARY CONSTRUCTION ENTRANCE

PRESERVE AND MAINTAIN EXISTING BEACH ACCESS

TOAD EXCLUSION AREA B

TOAD EXCLUSION AREA A

EXISTING LOWER PARKING LOT

TOAD EXCLUSION AREA D

EXISTING LOWER PARKING LOT

REAR DUNE

TOAD EXCLUSION AREA C

EXIST CONCESSION / RESTROOM BLDG

DEMOLISH EXISTING PICKET FENCE

DEMOLISH EXISTING SPLIT FENCE

PROTECT RINSE STATION AND ASSOCIATED PIPING

EROSION CONTROL BARRIER (TYP)

DO NOT DISTURB EXISTING OBSERVATION DECK AND UTILITY SERVICES. PROTECT AS REQUIRED

ISOLATED WETLAND

LIMITS OF COASTAL BEACH

LIMITS OF COASTAL DUNE

DEMOLISH EXISTING DRAINAGE STRUCTURE

DEMOLISH EXISTING OBSERVATION DECK

DEMOLISH EXISTING DECKING AROUND AND UNDER THE PERGOLA

DO NOT DISTURB EXISTING PERGOLA DURING CONSTRUCTION. PROTECT AS REQUIRED

DEMOLISH EXISTING ASPHALT PAVEMENT (TYP)

REMOVE AND STOCKPILE SUBBASE MATERIAL ONSITE FOR REUSE (TYP)

SAW CUT AND PROTECT EXISTING PAVEMENTS AROUND BUILDING TO ACCOMMODATE NEW SITE IMPROVEMENTS

DEMOLISH EXISTING CAPE COD BERM (TYP)

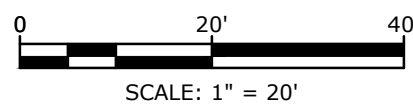
TOAD EXCLUSION AREA C

DEMOLISH EXISTING DRAINAGE STRUCTURE AND PIPING

DEMOLISH EXISTING REFUSE ENCLOSURE

DEMOLISH EXISTING DRAINAGE STRUCTURE AND PIPING

CLEAR AND GRUB VEGETATION WITHIN LIMIT OF WORK (TP)



MATCH LINE
SEE SHEET C-203

MATCH LINE
SEE SHEET C-202

MATCH LINE
SEE SHEET C-202

Tighe&Bond

Sandy Neck Beach Facility Reconfiguration

Town of Barnstable

Barnstable, MA

0	4/1/2025	BID SET
MARK	DATE	DESCRIPTION
PROJECT NO:	B0633-008	
DATE:	9/5/24	
FILE:	B0633-008-C-90% Site Plans.dwg	
DRAWN BY:	TJG/SO	
DESIGNED/CHECKED BY:	TJG/DJB	
APPROVED BY:	BSH	

WORK RESTRICTIONS,
EROSION CONTROL AND
DEMOLITION PLAN - 1

SCALE: 1" = 20'

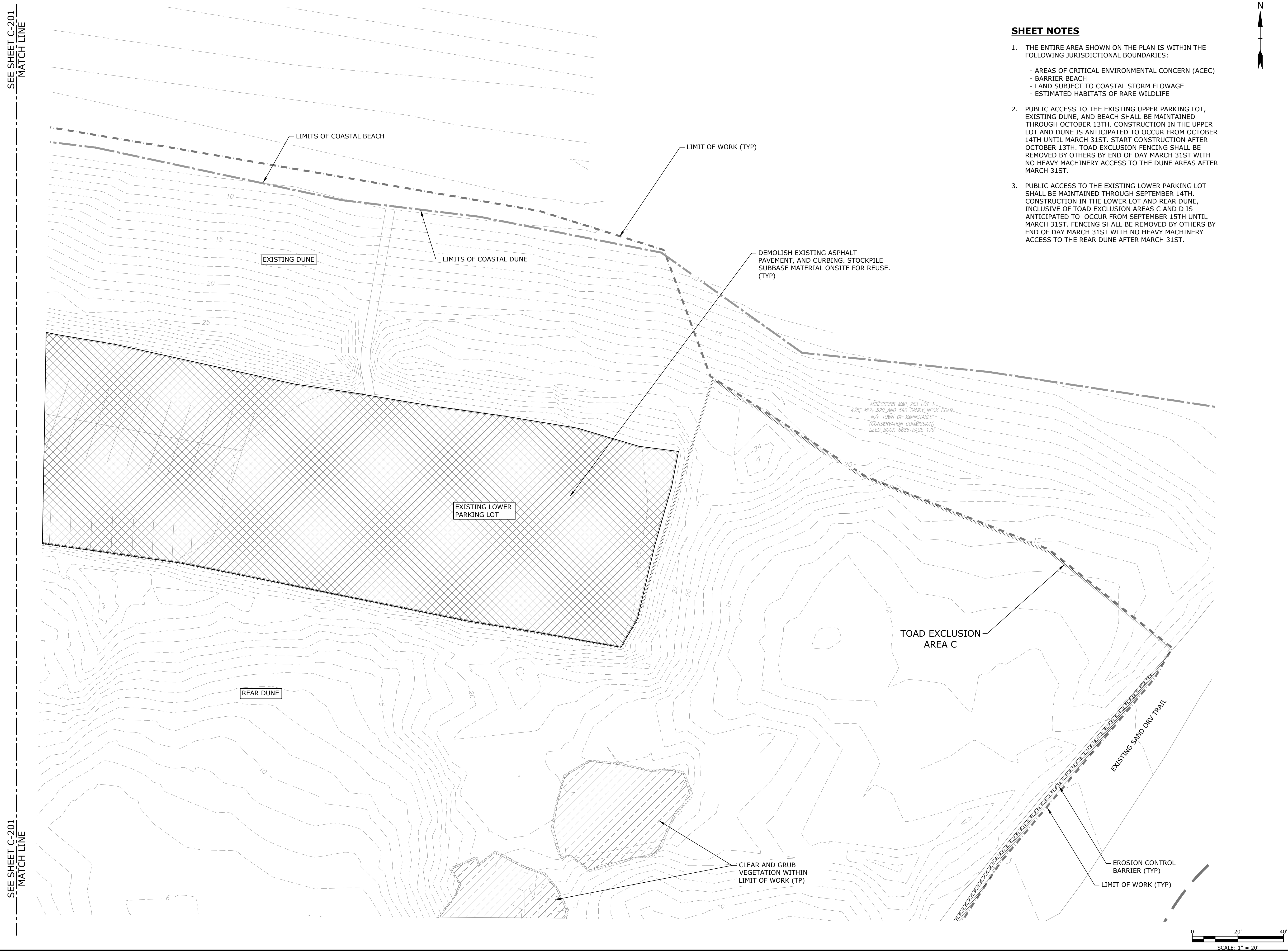
C-201

Last Saved: 3/27/2025 11:59am By: J. P. Bondi
Project: Sandy Neck Beach Facility Reconfiguration Drawings - Figures
Figure: AutoCAD Sheet: B0633-008-C-90% Site Plans.dwg
Tighe & Bond 2160 Barnstable 008 - 1722 Sandy Neck Beach Facility Reconfiguration Drawings - Figures AutoCAD Sheet: B0633-008-C-90% Site Plans.dwg

0	4/1/2025	BID SET
MARK	DATE	DESCRIPTION
PROJECT NO: 06633-008		
DATE: 9/5/24		
FILE: 06633-008-C-90% Site Plans.dwg		
DRAWN BY: TJG/SO		
DESIGNED/CHECKED BY: TJG/DJB		
APPROVED BY: BSH		

SCALE: 1" = 20'

C-202



Last Saved: 3/27/2025 11:59am By: J. P. Bondi
Project: 06/16/2025 - 11:59am By: J. P. Bondi
Title: 06/16/2025 - 11:59am By: J. P. Bondi
Tighe & Bondi 11/16/2025 Barnstable 008 - 1722 Sandy Neck Beach Facility Reconfiguration Drawings - Figures\AutoCAD\Sheets\B0633-008-C-90% Site Plans.dwg

SEE SHEET C-202
MATCH LINE

SEE SHEET C-102
MATCH LINE

SEE SHEET C-201
MATCH LINE



Tighe&Bond

Sandy Neck Beach Facility Reconfiguration

Town of
Barnstable

Barnstable, MA

SHEET NOTES

- THE ENTIRE AREA SHOWN ON THE PLAN IS WITHIN THE FOLLOWING JURISDICTIONAL BOUNDARIES:
 - AREAS OF CRITICAL ENVIRONMENTAL CONCERN (ACEC)
 - BARRIER BEACH
 - LAND SUBJECT TO COASTAL STORM FLOWAGE
 - ESTIMATED HABITATS OF RARE WILDLIFE
- PUBLIC ACCESS TO THE EXISTING LOWER PARKING LOT SHALL BE MAINTAINED THROUGH SEPTEMBER 14TH. CONSTRUCTION IN THE LOWER LOT AND REAR DUNE, INCLUSIVE OF TOAD EXCLUSION AREAS C AND D IS ANTICIPATED TO OCCUR FROM SEPTEMBER 15TH UNTIL MARCH 31ST. FENCING SHALL BE REMOVED BY OTHERS BY END OF DAY MARCH 31ST WITH NO HEAVY MACHINERY ACCESS TO THE REAR DUNE AFTER MARCH 31ST.

ASSESSORS MAP 263 LOT 1
425, 427, 520 AND 590 SANDY NECK ROAD
N/E TOWN OF BARNSTABLE
(CONSERVATION COMMISSION)
DEED BOOK 6685 PAGE 179

ISOLATED
WETLAND

ISOLATED
WETLAND

50-FOOT BUFFER ZONE

100-FOOT BUFFER ZONE

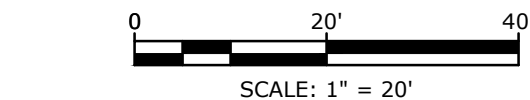
CLEAR AND GRUB
VEGETATION WITHIN
LIMIT OF WORK (TP)

EXISTING SAND ORV TRAIL

EROSION CONTROL
BARRIER (TYP)
LIMIT OF WORK (TYP)

APPROX. EDGE OF
EXISTING ORV TRAIL

100-FOOT BUFFER ZONE



0	4/1/2025	BID SET
MARK	DATE	DESCRIPTION
PROJECT NO:		B0633-008
DATE:		9/5/24
FILE:		B0633-008-C-90% Site Plans.dwg
DRAWN BY:		TJG/SO
DESIGNED/CHECKED BY:		TJG/DJB
APPROVED BY:		BSH

WORK RESTRICTIONS,
EROSION CONTROL AND
DEMOLITION PLAN - 3

SCALE: 1" = 20'

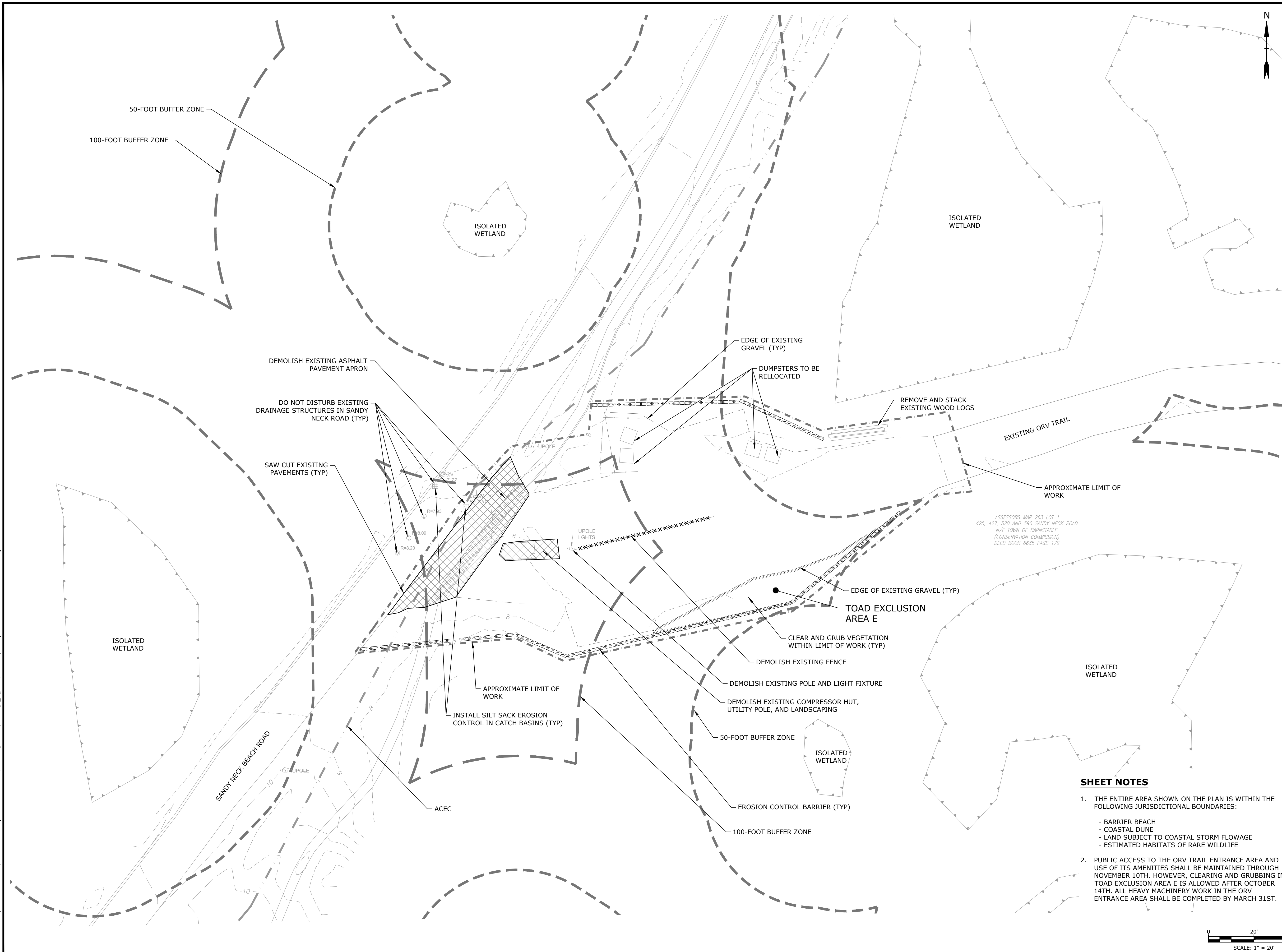
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MARK	DATE	DESCRIPTION
PROJECT NO:		B0633-008
DATE:		6/27/24
FILE:		B0633-008-C-90% Site Plans.dwg
DRAWN BY:		TJG/SO
DESIGNED/CHECKED BY:		TJG/DJB
APPROVED BY:		BSH

ORV WORK RESTRICTIONS, EROSION CONTROL AND DEMOLITION PLAN

SCALE: 1" = 20'

C-204



.last Saved: 3/27/2025
 Plotted On: Mar 27, 2025-12:00pm By: APaoil
 Title & Bond: 3:VB0633 Barnstable-008 - FY22 Sandy Neck Beach Facility Reconfiguration Drawings
 Figures/AutoCAD/Sheet/B0633-008-C-90% Site Plans.dwg

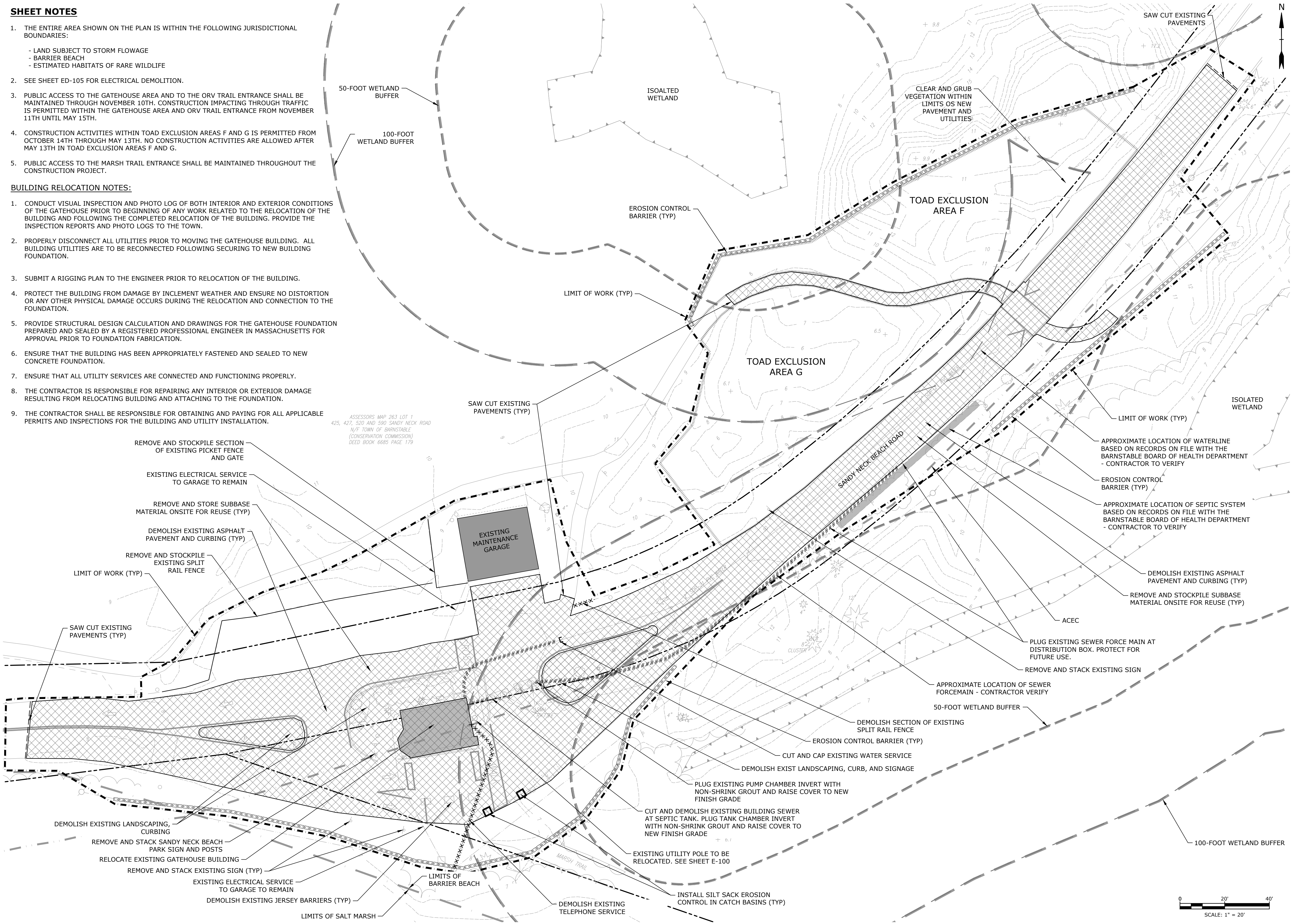
SHEET NOTES

- THE ENTIRE AREA SHOWN ON THE PLAN IS WITHIN THE FOLLOWING JURISDICTIONAL BOUNDARIES:
 - LAND SUBJECT TO STORM FLOWAGE
 - BARRIER BEACH
 - ESTIMATED HABITATS OF RARE WILDLIFE
- SEE SHEET ED-105 FOR ELECTRICAL DEMOLITION.
- PUBLIC ACCESS TO THE GATEHOUSE AREA AND TO THE ORV TRAIL ENTRANCE SHALL BE MAINTAINED THROUGH NOVEMBER 10TH. CONSTRUCTION IMPACTING THROUGH TRAFFIC IS PERMITTED WITHIN THE GATEHOUSE AREA AND ORV TRAIL ENTRANCE FROM NOVEMBER 11TH UNTIL MAY 15TH.
- CONSTRUCTION ACTIVITIES WITHIN TOAD EXCLUSION AREAS F AND G IS PERMITTED FROM OCTOBER 14TH THROUGH MAY 13TH. NO CONSTRUCTION ACTIVITIES ARE ALLOWED AFTER MAY 13TH IN TOAD EXCLUSION AREAS F AND G.
- PUBLIC ACCESS TO THE MARSH TRAIL ENTRANCE SHALL BE MAINTAINED THROUGHOUT THE CONSTRUCTION PROJECT.

BUILDING RELOCATION NOTES:

- CONDUCT VISUAL INSPECTION AND PHOTO LOG OF BOTH INTERIOR AND EXTERIOR CONDITIONS OF THE GATEHOUSE PRIOR TO BEGINNING OF ANY WORK RELATED TO THE RELOCATION OF THE BUILDING AND FOLLOWING THE COMPLETED RELOCATION OF THE BUILDING. PROVIDE THE INSPECTION REPORTS AND PHOTO LOGS TO THE TOWN.
- PROPERLY DISCONNECT ALL UTILITIES PRIOR TO MOVING THE GATEHOUSE BUILDING. ALL BUILDING UTILITIES ARE TO BE RECONNECTED FOLLOWING SECURING TO NEW BUILDING FOUNDATION.
- SUBMIT A RIGGING PLAN TO THE ENGINEER PRIOR TO RELOCATION OF THE BUILDING.
- PROTECT THE BUILDING FROM DAMAGE BY INCLEMENT WEATHER AND ENSURE NO DISTORTION OR ANY OTHER PHYSICAL DAMAGE OCCURS DURING THE RELOCATION AND CONNECTION TO THE FOUNDATION.
- PROVIDE STRUCTURAL DESIGN CALCULATION AND DRAWINGS FOR THE GATEHOUSE FOUNDATION PREPARED AND SEALED BY A REGISTERED PROFESSIONAL ENGINEER IN MASSACHUSETTS FOR APPROVAL PRIOR TO FOUNDATION FABRICATION.
- ENSURE THAT THE BUILDING HAS BEEN APPROPRIATELY FASTENED AND SEALED TO NEW CONCRETE FOUNDATION.
- ENSURE THAT ALL UTILITY SERVICES ARE CONNECTED AND FUNCTIONING PROPERLY.
- THE CONTRACTOR IS RESPONSIBLE FOR REPAIRING ANY INTERIOR OR EXTERIOR DAMAGE RESULTING FROM RELOCATING BUILDING AND ATTACHING TO THE FOUNDATION.
- THE CONTRACTOR SHALL BE RESPONSIBLE FOR OBTAINING AND PAYING FOR ALL APPLICABLE PERMITS AND INSPECTIONS FOR THE BUILDING AND UTILITY INSTALLATION.

ASSESSORS MAP 263 LOT 1
425, 427, 520 AND 590 SANDY NECK ROAD
N/F TOWN OF BARNSTABLE
(CONSERVATION COMMISSION)
DEED BOOK 6683 PAGE 179



Sandy Neck Beach Facility Reconfiguration

Town of Barnstable

Barnstable, MA

0	4/1/2025	BID SET
MARK	DATE	DESCRIPTION
PROJECT NO:		B0633-008
DATE:		6/27/24
FILE:		B0633-008-C-90% Gatehouse Site Plans.dwg
DRAWN BY:		TJG/SO
DESIGNED/CHECKED BY:		TJG/DJB
APPROVED BY:		BSH

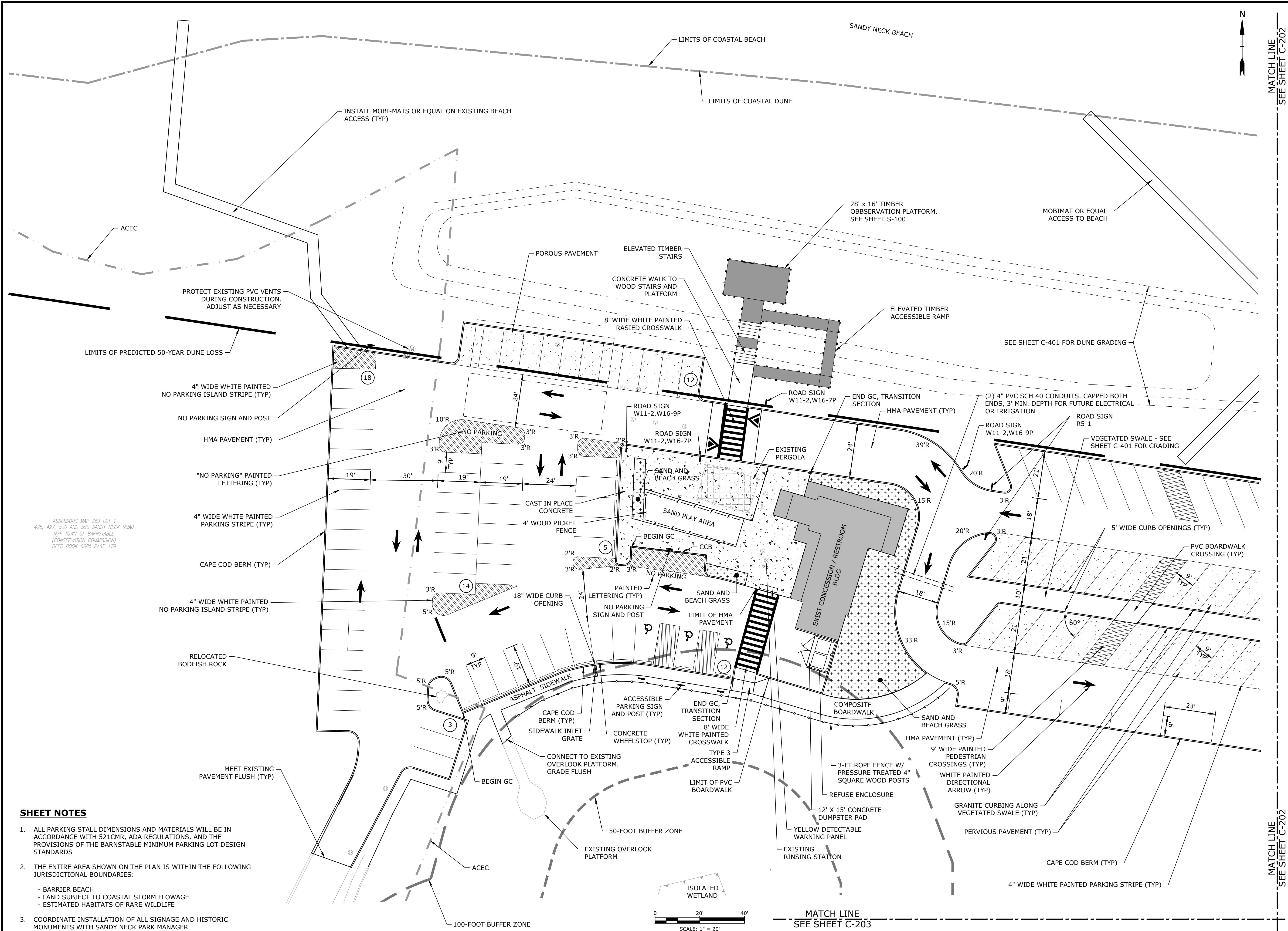
GATEHOUSE EROSION CONTROL AND DEMOLITION PLAN

SCALE: 1" = 20'

Last Saved: 3/27/2025 12:00pm By: J. Bond
Project: Sandy Neck Beach Facility Reconfiguration Drawings - Figures AutoCAD Sheet B0633-008-C-90% Site Plans.dwg
Title: Sandy Neck Beach Facility Reconfiguration Drawings - Figures AutoCAD Sheet B0633-008-C-90% Site Plans.dwg

SHEET NOTES

- ALL PARKING STALL DIMENSIONS AND MATERIALS WILL BE IN ACCORDANCE WITH 521CMR, ADA REGULATIONS, AND THE PROVISIONS OF THE BARNSTABLE MINIMUM PARKING LOT DESIGN STANDARDS
- THE ENTIRE AREA SHOWN ON THE PLAN IS WITHIN THE FOLLOWING JURISDICTIONAL BOUNDARIES:
 - BARRIER BEACH
 - LAND SUBJECT TO COASTAL STORM FLOWAGE
 - ESTIMATED HABITATS OF RARE WILDLIFE
- COORDINATE INSTALLATION OF ALL SIGNAGE AND HISTORIC MONUMENTS WITH SANDY NECK PARK MANAGER



Sandy Neck Beach Facility Reconfiguration

Town of Barnstable

Barnstable, MA

0	4/1/2025	BID SET
MARK	DATE	DESCRIPTION
PROJECT NO:	B0633-008	
DATE:	9/5/24	
FILE:	B0633-008-C-90% Site Plans.dwg	
DRAWN BY:	TJG/SO	
DESIGNED/CHECKED BY:	TJG/DJB	
APPROVED BY:	BSH	

SITE LAYOUT AND MATERIALS PLAN - 1

SCALE: 1" = 20'

C-301

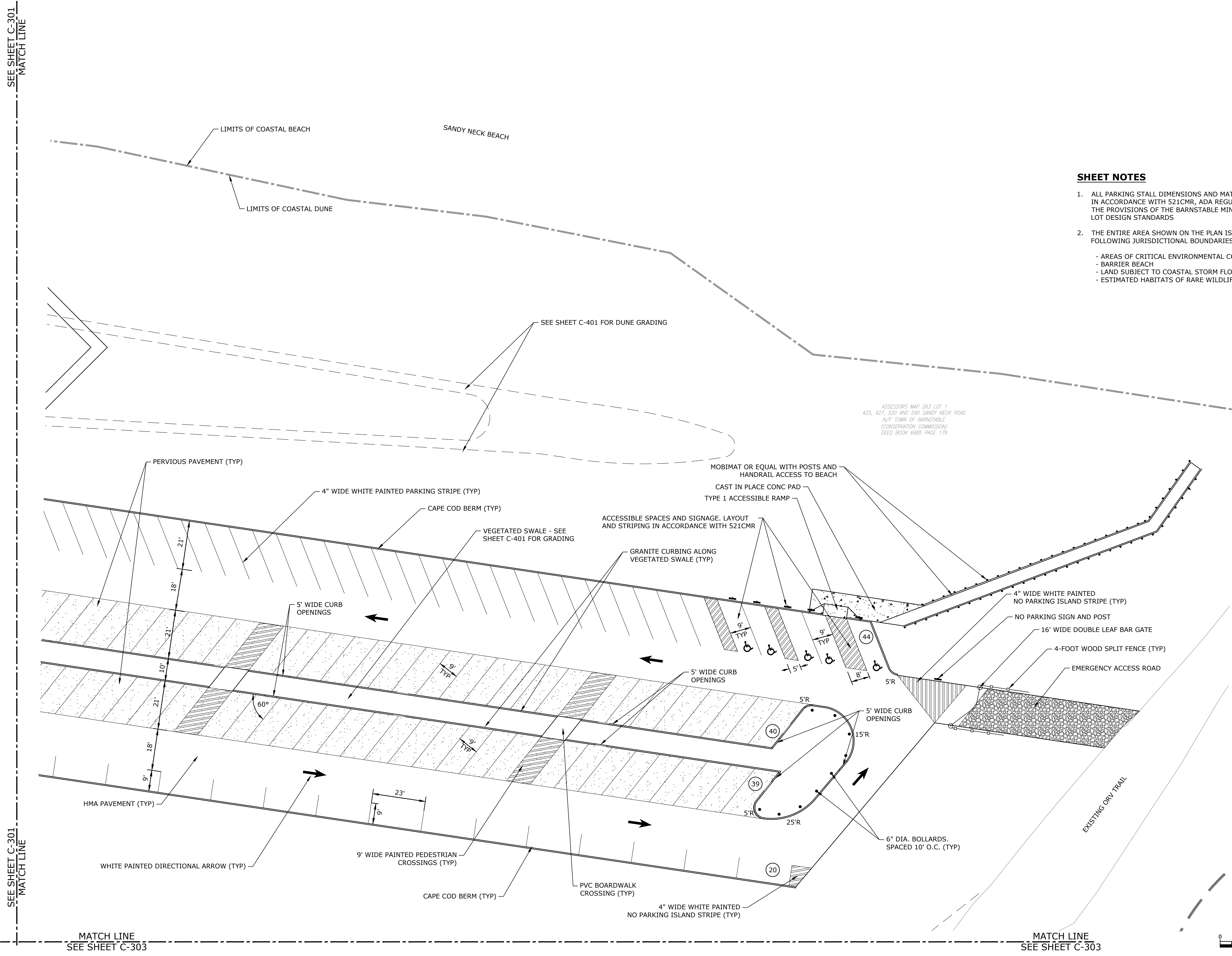
Barnstable, MA

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PROJECT NO: B0633-008		
DATE: 9/5/24		
FILE: B0633-008-C-90% Site Plans.dwg		
DRAWN BY: TJG/SO		
DESIGNED/CHECKED BY: TJG/DJB		
APPROVED BY: BSH		

SITE LAYOUT AND MATERIALS PLAN - 2

SCALE: 1" = 20'

C-302

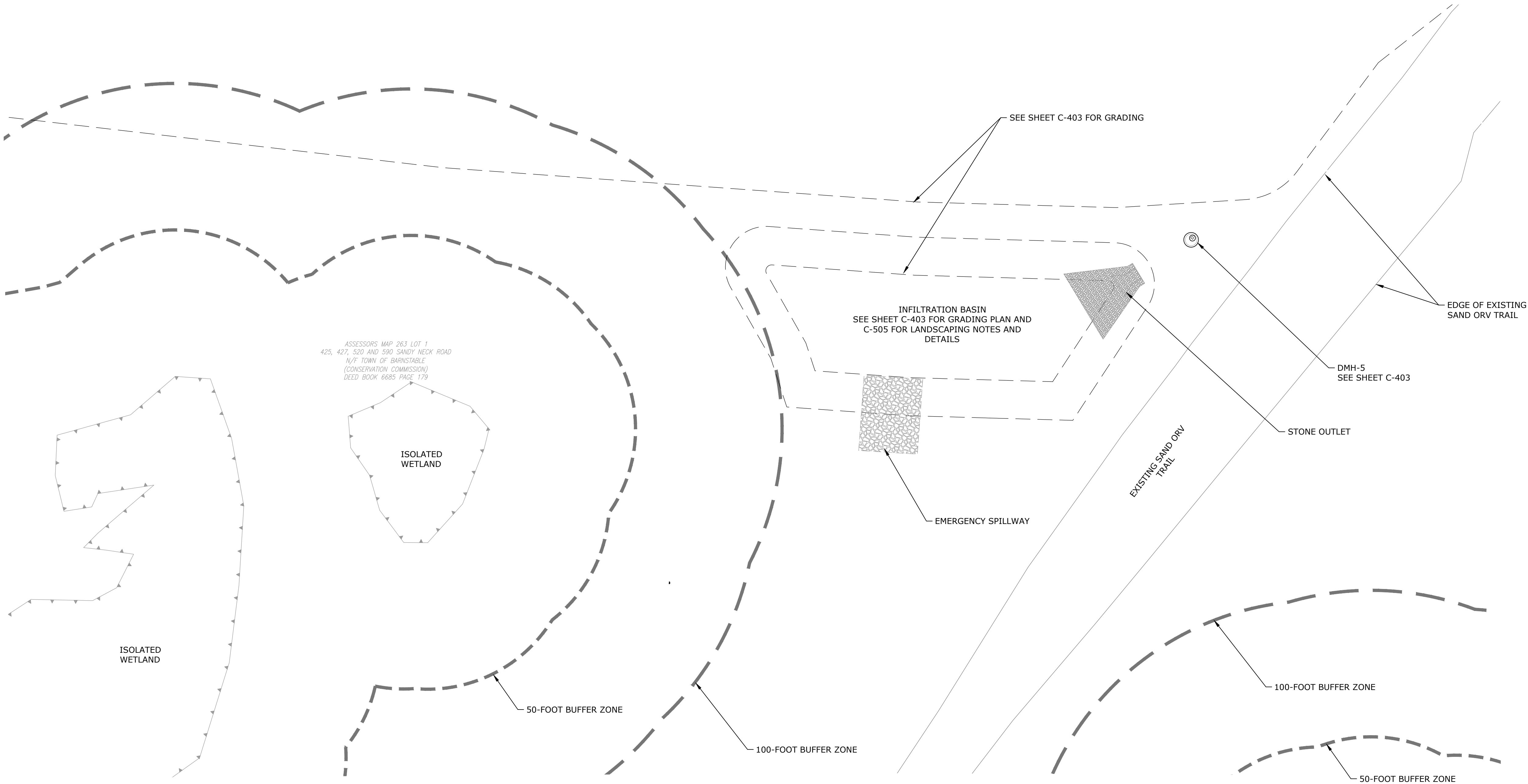
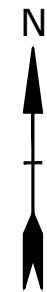


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Project: B0633 Barnstable 008 - 1722 Sandy Neck Beach Facility Reconfiguration Drawings
Figures\AutoCAD\Sheets\B0633-008-C-90% Site Plans.dwg
Tighe & Bond 1722 Sandy Neck Beach Facility Reconfiguration Drawings

SEE SHEET C-301
MATCH LINE

SEE SHEET C-302
MATCH LINE

SEE SHEET C-302
MATCH LINE



SHEET NOTES

- THE ENTIRE AREA SHOWN ON THE PLAN IS WITHIN THE FOLLOWING JURISDICTIONAL BOUNDARIES:
 - AREAS OF CRITICAL ENVIRONMENTAL CONCERN (ACEC)
 - BARRIER BEACH
 - LAND SUBJECT TO COASTAL STORM FLOWAGE
 - ESTIMATED HABITATS OF RARE WILDLIFE

Tighe&Bond

Sandy Neck Beach Facility Reconfiguration

Town of
Barnstable

Barnstable, MA

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MARK	DATE	DESCRIPTION
PROJECT NO:		B0633-008
DATE:		9/5/24
FILE:		B0633-008-C-90% Site Plans.dwg
DRAWN BY:		TJG/SO
DESIGNED/CHECKED BY:		TJG/DJB
APPROVED BY:		BSH

SITE LAYOUT AND
MATERIALS PLAN - 3

SCALE: 1" = 20'

C-303

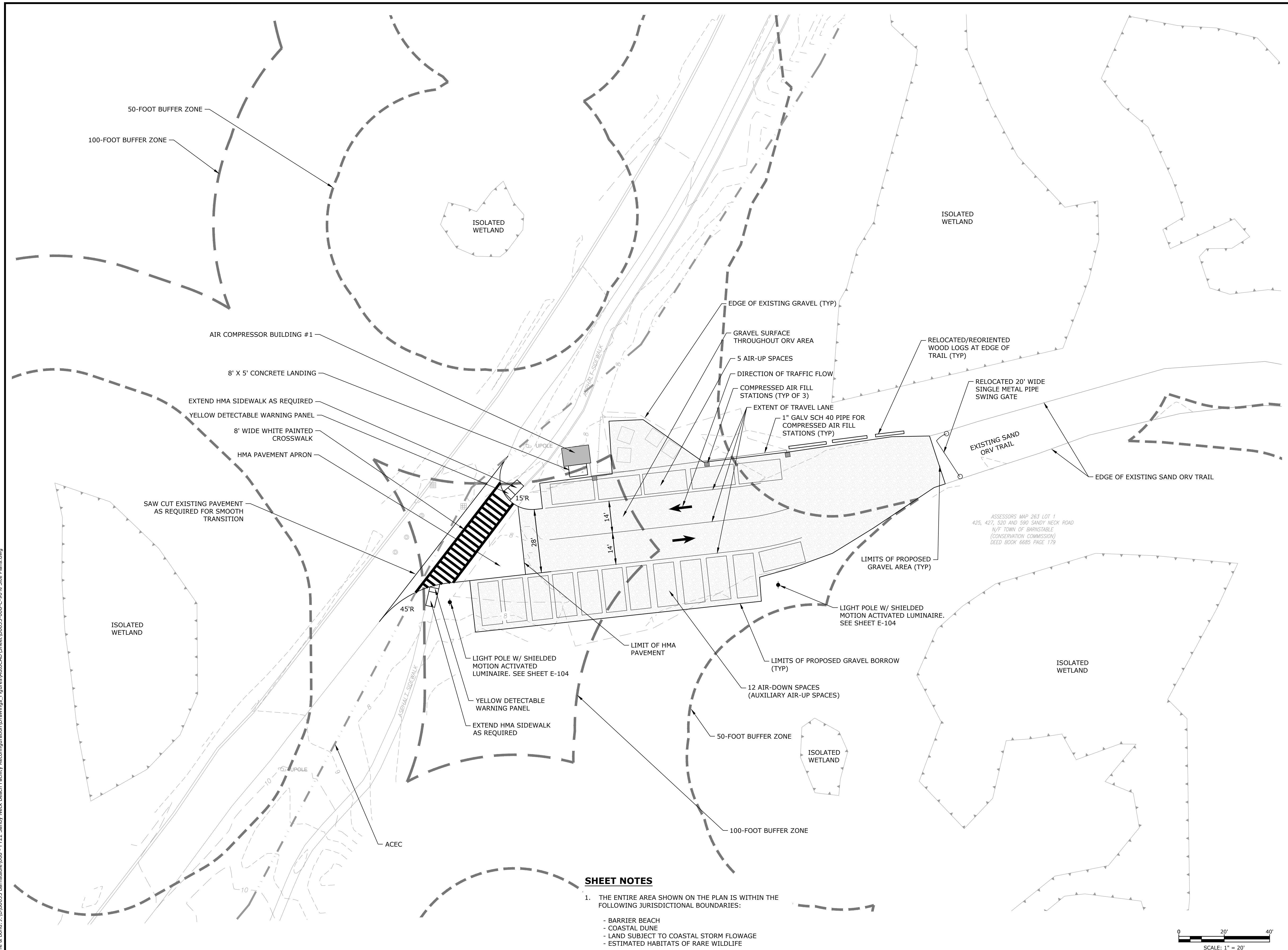
Barnstable, MA

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DATE: 9/5/24		
FILE: B0633-008-C-90% Site Plans.dwg		
DRAWN BY: TG/G/SO		
DESIGNED/CHECKED BY: TG/G/DJB		
APPROVED BY: BSH		

ORV SITE LAYOUT AND MATERIALS PLAN

SCALE: $1'' = 20'$

C-304



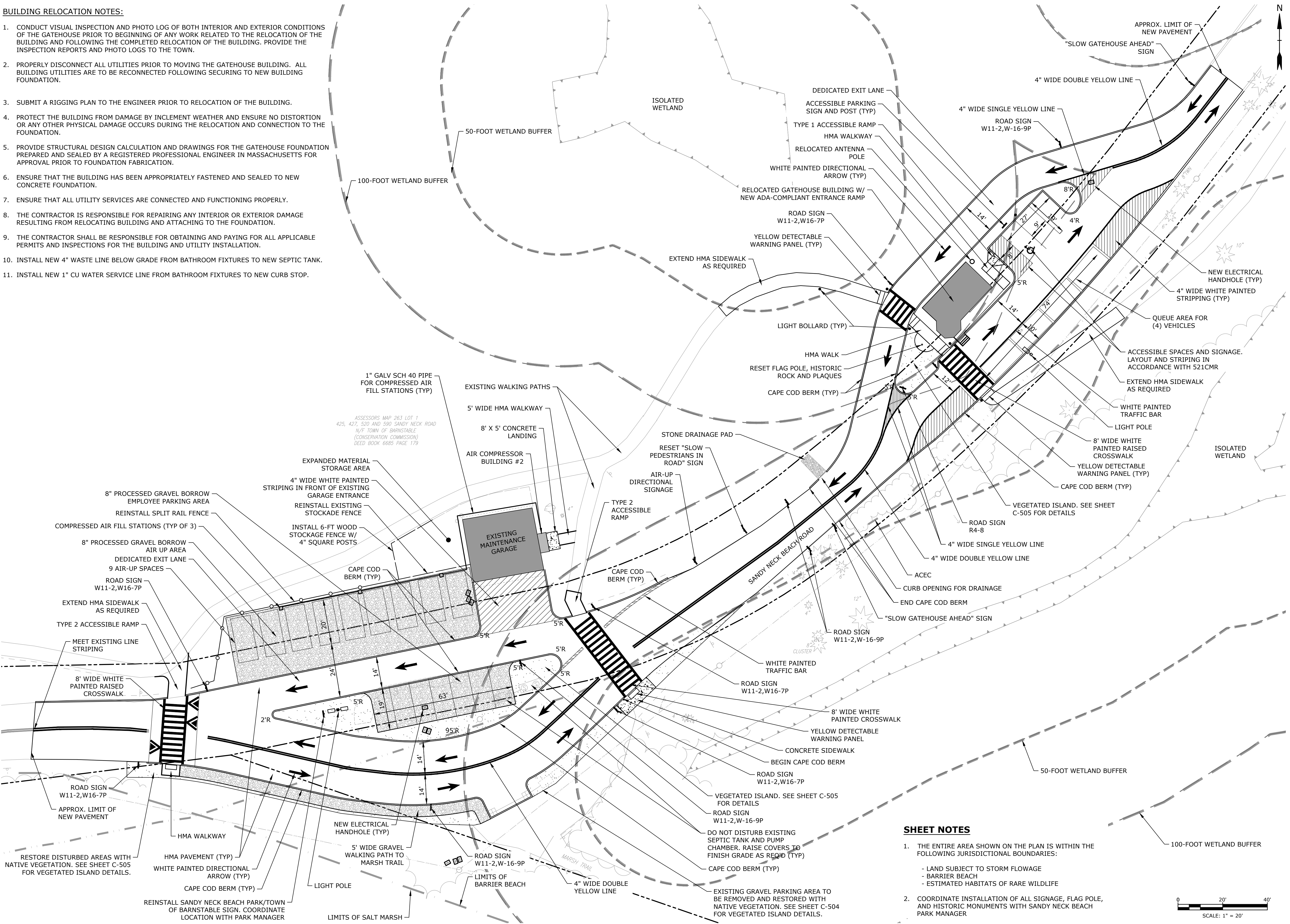
SHEET NOTES

1. THE ENTIRE AREA SHOWN ON THE PLAN IS WITHIN THE FOLLOWING JURISDICTIONAL BOUNDARIES:
 - BARRIER BEACH
 - COASTAL DUNE
 - LAND SUBJECT TO COASTAL STORM FLOWAGE
 - ESTIMATED HABITATS OF RARE WILDLIFE

Plot Date: 3/27/2025
 Plotted On: Mar 27, 2025-12:00pm By: APaoi
 Title & Bond: J:\B0633 Barnstable\008 - FY22 Sandy Neck Beach Facility Reconfiguration\Drawings\Figures\AutoCAD\Sheet\B0633-008-C-909_Site Plans.dwg
 Last Saved: 3/27/2025

BUILDING RELOCATION NOTES:

1. CONDUCT VISUAL INSPECTION AND PHOTO LOG OF BOTH INTERIOR AND EXTERIOR CONDITIONS OF THE GATEHOUSE PRIOR TO BEGINNING OF ANY WORK RELATED TO THE RELOCATION OF THE BUILDING AND FOLLOWING THE COMPLETED RELOCATION OF THE BUILDING. PROVIDE THE INSPECTION REPORTS AND PHOTO LOGS TO THE TOWN.
2. PROPERLY DISCONNECT ALL UTILITIES PRIOR TO MOVING THE GATEHOUSE BUILDING. ALL BUILDING UTILITIES ARE TO BE RECONNECTED FOLLOWING SECURING TO NEW BUILDING FOUNDATION.
3. SUBMIT A RIGGING PLAN TO THE ENGINEER PRIOR TO RELOCATION OF THE BUILDING.
4. PROTECT THE BUILDING FROM DAMAGE BY INCLEMENT WEATHER AND ENSURE NO DISTORTION OR ANY OTHER PHYSICAL DAMAGE OCCURS DURING THE RELOCATION AND CONNECTION TO THE FOUNDATION.
5. PROVIDE STRUCTURAL DESIGN CALCULATION AND DRAWINGS FOR THE GATEHOUSE FOUNDATION PREPARED AND SEALED BY A REGISTERED PROFESSIONAL ENGINEER IN MASSACHUSETTS FOR APPROVAL PRIOR TO FOUNDATION FABRICATION.
6. ENSURE THAT THE BUILDING HAS BEEN APPROPRIATELY FASTENED AND SEALED TO NEW CONCRETE FOUNDATION.
7. ENSURE THAT ALL UTILITY SERVICES ARE CONNECTED AND FUNCTIONING PROPERLY.
8. THE CONTRACTOR IS RESPONSIBLE FOR REPAIRING ANY INTERIOR OR EXTERIOR DAMAGE RESULTING FROM RELOCATING BUILDING AND ATTACHING TO THE FOUNDATION.
9. THE CONTRACTOR SHALL BE RESPONSIBLE FOR OBTAINING AND PAYING FOR ALL APPLICABLE PERMITS AND INSPECTIONS FOR THE BUILDING AND UTILITY INSTALLATION.
10. INSTALL NEW 4" WASTE LINE BELOW GRADE FROM BATHROOM FIXTURES TO NEW SEPTIC TANK.
11. INSTALL NEW 1" CU WATER SERVICE LINE FROM BATHROOM FIXTURES TO NEW CURB STOP.



SHEET NOTES

1. THE ENTIRE AREA SHOWN ON THE PLAN IS WITHIN THE FOLLOWING JURISDICTIONAL BOUNDARIES:
 - LAND SUBJECT TO STORM FLOWAGE
 - BARRIER BEACH
 - ESTIMATED HABITATS OF RARE WILDLIFE
2. COORDINATE INSTALLATION OF ALL SIGNAGE, FLAG POLE, AND HISTORIC MONUMENTS WITH SANDY NECK BEACH PARK MANAGER

Sandy Neck Beach Facility Reconfiguration

Town of Barnstable

Barnstable, MA

0	4/1/2025	BID SET
MARK	DATE	DESCRIPTION
PROJECT NO:		B0633-008
DATE:		6/27/24
FILE:		B0633-008-C-90% Gatehouse Site Plans.dwg
DRAWN BY:		TJG/SO
DESIGNED/CHECKED BY:		TJG/DJB
APPROVED BY:		BSH

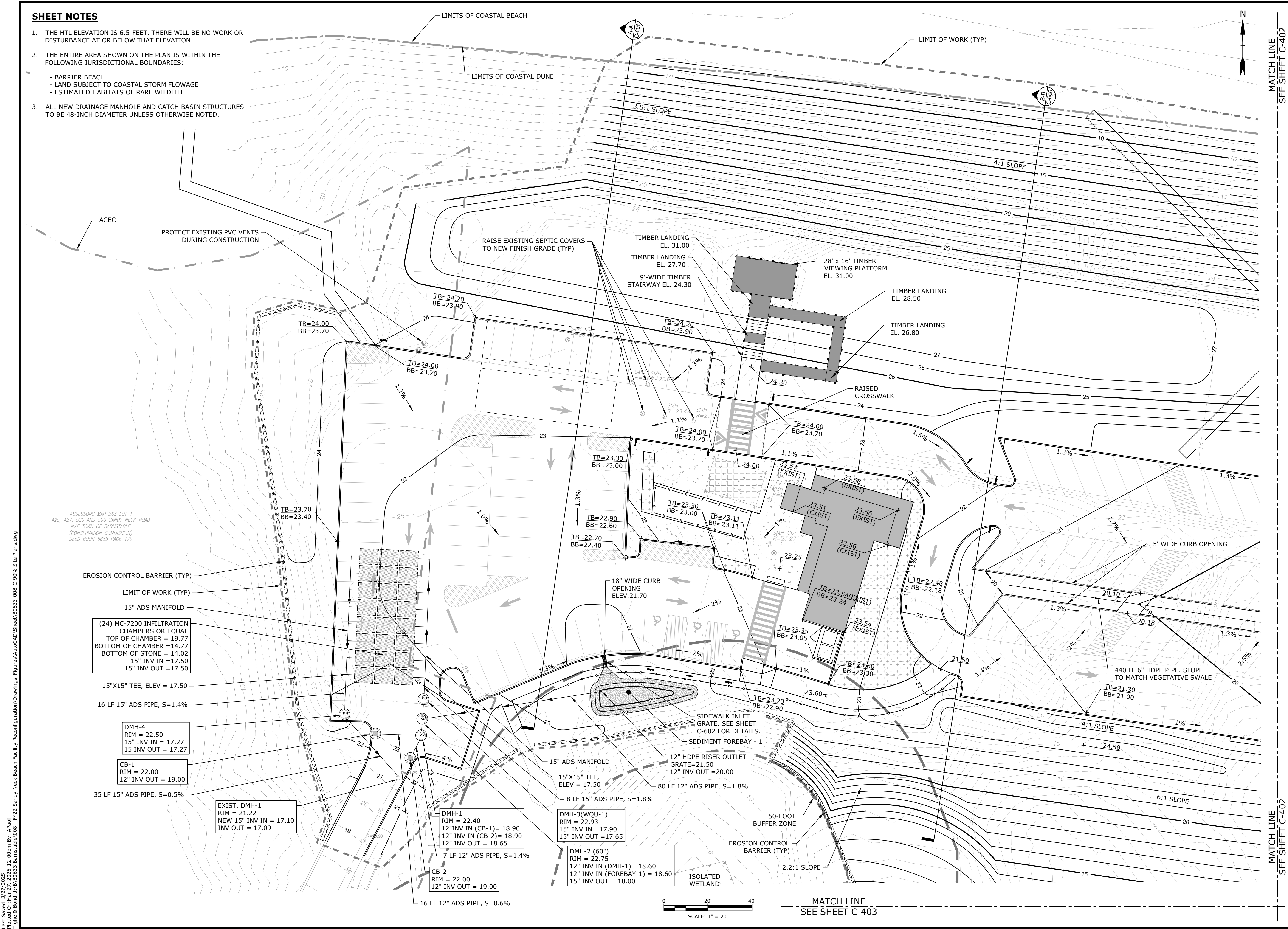
GATEHOUSE SITE LAYOUT AND MATERIALS PLAN

SCALE: 1" = 20'

C-305

SHEET NOTES

1. THE HTL ELEVATION IS 6.5-FEET. THERE WILL BE NO WORK OR DISTURBANCE AT OR BELOW THAT ELEVATION.
2. THE ENTIRE AREA SHOWN ON THE PLAN IS WITHIN THE FOLLOWING JURISDICTIONAL BOUNDARIES:
- BARRIER BEACH
 - LAND SUBJECT TO COASTAL STORM FLOWAGE
 - ESTIMATED HABITATS OF RARE WILDLIFE
3. ALL NEW DRAINAGE MANHOLE AND CATCH BASIN STRUCTURES TO BE 48-INCH DIAMETER UNLESS OTHERWISE NOTED.



Sandy Neck
Beach Facility
Reconfiguration

Town of
Barnstable

Barnstable, MA

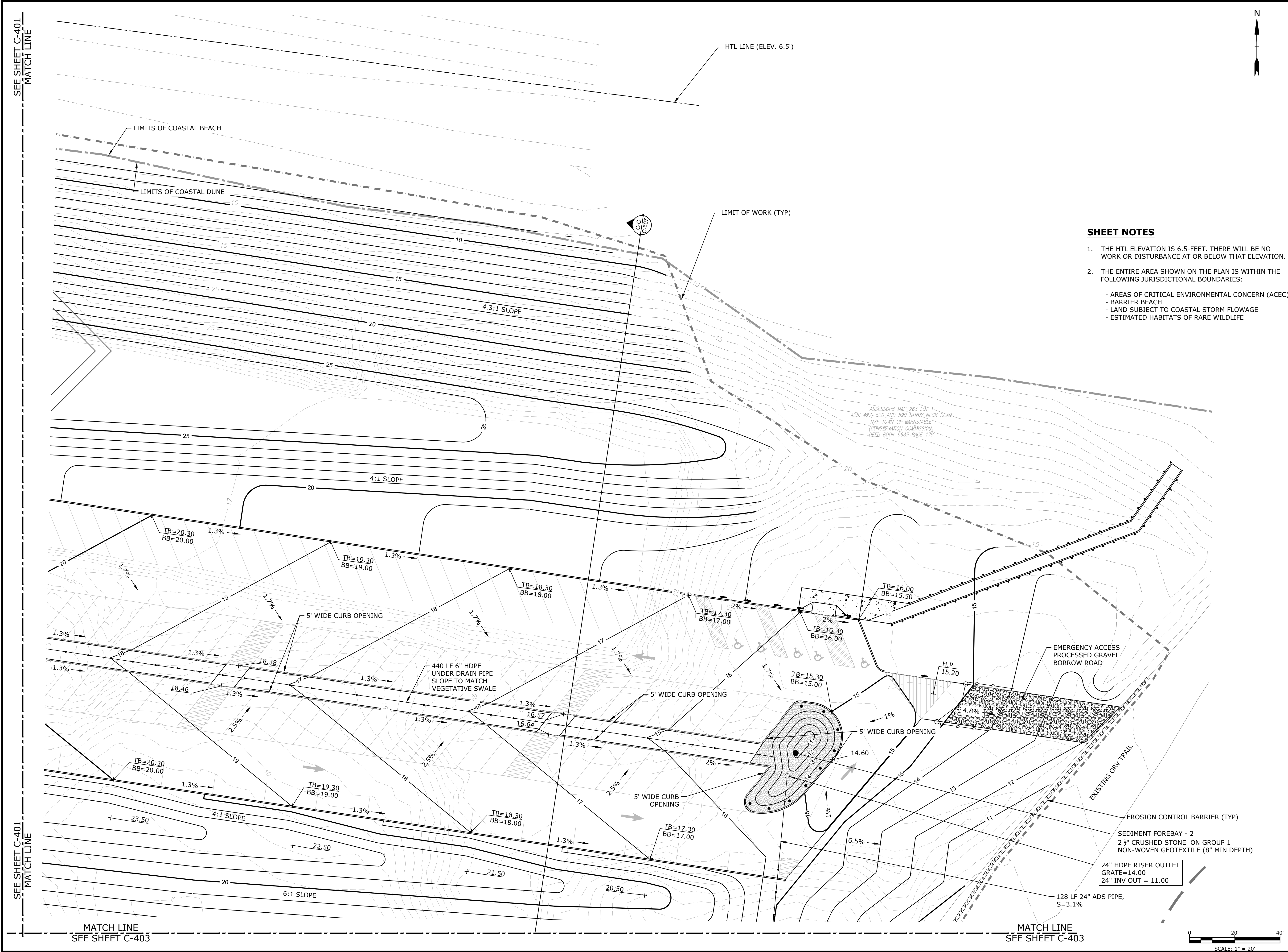
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DATE:	6/27/24	
FILE:	B0633-008-C-90% Site Plans.dwg	
DRAWN BY:	TJG/SO	
DESIGNED/CHECKED BY:	TJG/DJB	
APPROVED BY:	BSH	

SITE GRADING AND
DRAINAGE PLAN - 1

SCALE: 1" = 20'

C-401

Last Saved: 3/27/2025 12:00pm By: J. Bondi
Project: 80633-008-Sandy Neck Beach Facility Reconfiguration Drawings - Figures
Figure: 80633-008-Sandy Neck Beach Facility Reconfiguration Drawings - Figures
Title: 80633-008-Sandy Neck Beach Facility Reconfiguration Drawings - Figures
Scale: 1" = 20'



SHEET NOTES

- THE HTL ELEVATION IS 6.5-FEET. THERE WILL BE NO WORK OR DISTURBANCE AT OR BELOW THAT ELEVATION.
- THE ENTIRE AREA SHOWN ON THE PLAN IS WITHIN THE FOLLOWING JURISDICTIONAL BOUNDARIES:
 - AREAS OF CRITICAL ENVIRONMENTAL CONCERN (ACEC)
 - BARRIER BEACH
 - LAND SUBJECT TO COASTAL STORM FLOWAGE
 - ESTIMATED HABITATS OF RARE WILDLIFE

Tighe&Bond

Sandy Neck Beach Facility Reconfiguration

Town of Barnstable

Barnstable, MA

MARK	DATE	DESCRIPTION
0	4/1/2025	BID SET

PROJECT NO:	B0633-008
DATE:	9/5/24
FILE:	80633-008-C-90% Site Plans.dwg
DRAWN BY:	TJG/SO
DESIGNED/CHECKED BY:	TJG/DJB
APPROVED BY:	BSH

SITE GRADING AND DRAINAGE PLAN - 2

SCALE: 1" = 20'

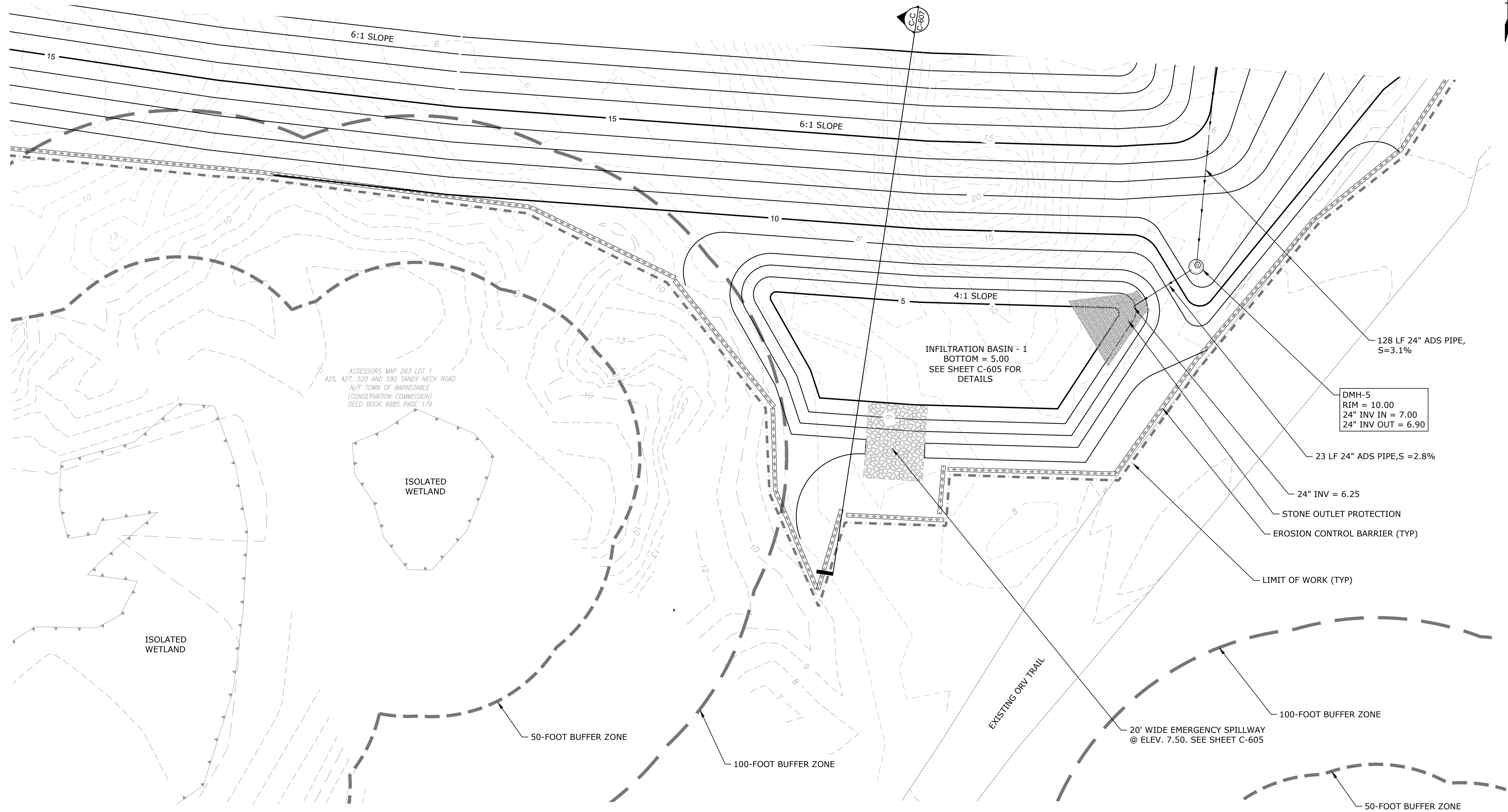
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DATE:		9/5/24
FILE: B0633-008-C-90% Site Plans.dwg		
DRAWN BY:		TJG/SO
DESIGNED/CHECKED BY: TJG/DJB		
APPROVED BY:		BSH

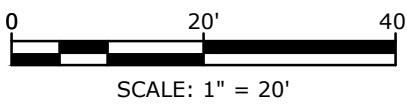
SCALE: 1" = 20'

SEE SHEET C-402
MATCH LINE

SEE SHEET C-402
MATCH LINE

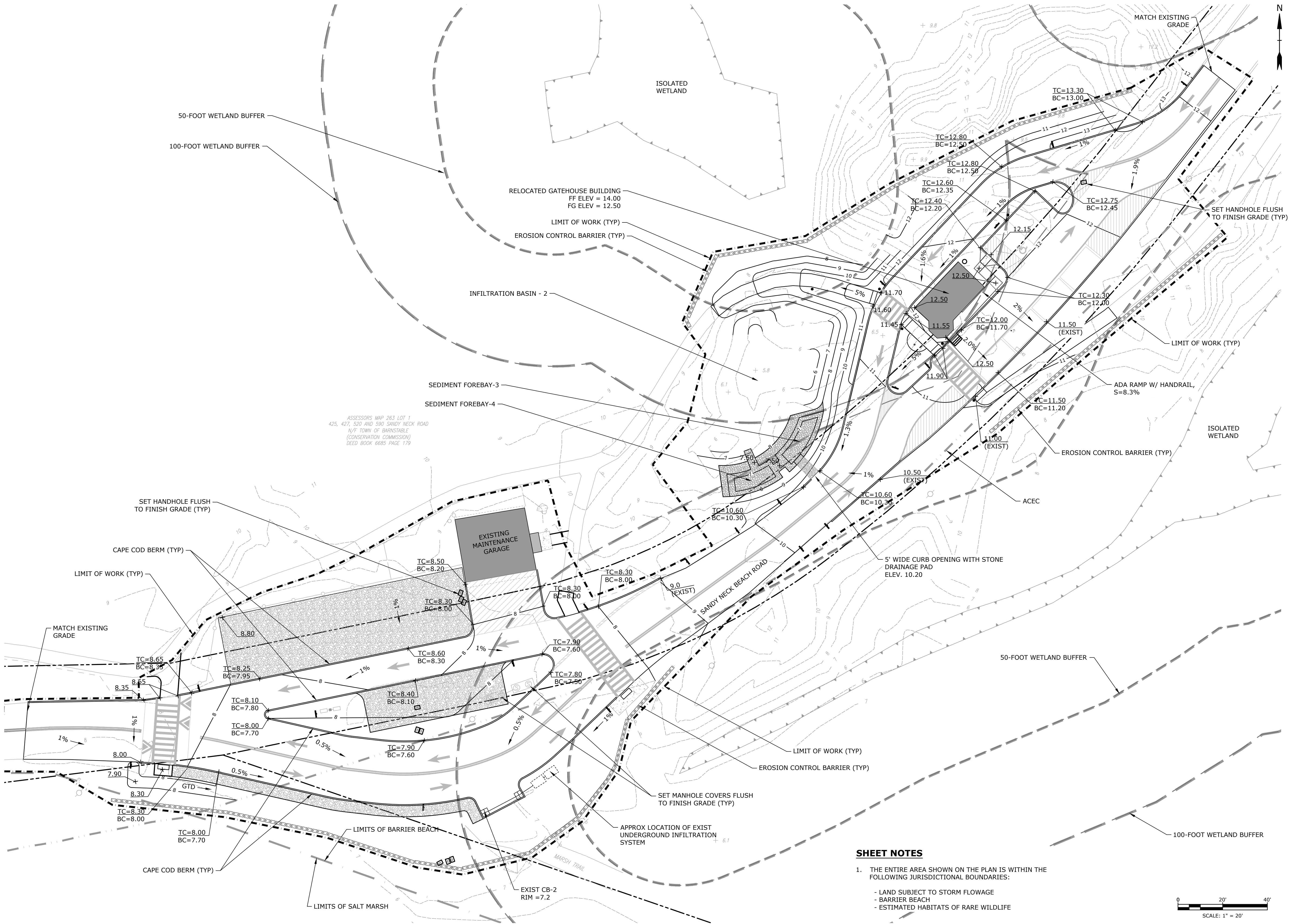


1. THE ENTIRE AREA SHOWN ON THE PLAN IS WITHIN THE FOLLOWING JURISDICTIONAL BOUNDARIES:
 - AREAS OF CRITICAL ENVIRONMENTAL CONCERN (ACEC)
 - BARRIER BEACH
 - LAND SUBJECT TO COASTAL STORM FLOWAGE
 - ESTIMATED HABITATS OF RARE WILDLIFE



Last Saved: 3/27/2025
Plotted On: Mar 27, 2025-12:00pm By: APoll
Title & Bond: J:\B06033 Barnstable 008 - F72 Sandy Neck Beach Facility Reconfiguration\Drawings_Figures\AutoCAD\Sheet\B0633-008-C-90% Site Plans.dwg

Last Saved: 3/21/2025 11:59am By: JPB
Notes: On file with the Town of Barnstable, MA. This plan is a preliminary design and is subject to change without notice.
Title & Location: B0633-008-C-90% Gatehouse Site Plans.dwg



SHEET NOTES

1. THE ENTIRE AREA SHOWN ON THE PLAN IS WITHIN THE FOLLOWING JURISDICTIONAL BOUNDARIES:
 - LAND SUBJECT TO STORM FLOWAGE
 - BARRIER BEACH
 - ESTIMATED HABITATS OF RARE WILDLIFE

**Sandy Neck
Beach Facility
Reconfiguration**

Town of
Barnstable

Barnstable, MA

0	4/1/2025	BID SET
MARK	DATE	DESCRIPTION
PROJECT NO:	B0633-008	
DATE:	6/27/24	
FILE:	B0633-008-C-90% Gatehouse Site Plans.dwg	
DRAWN BY:	TJG/SO	
DESIGNED/CHECKED BY:	TJG/DJB	
APPROVED BY:	BSH	

**GATEHOUSE GRADING AND
DRAINAGE PLAN**

SCALE: 1" = 20'

C-404

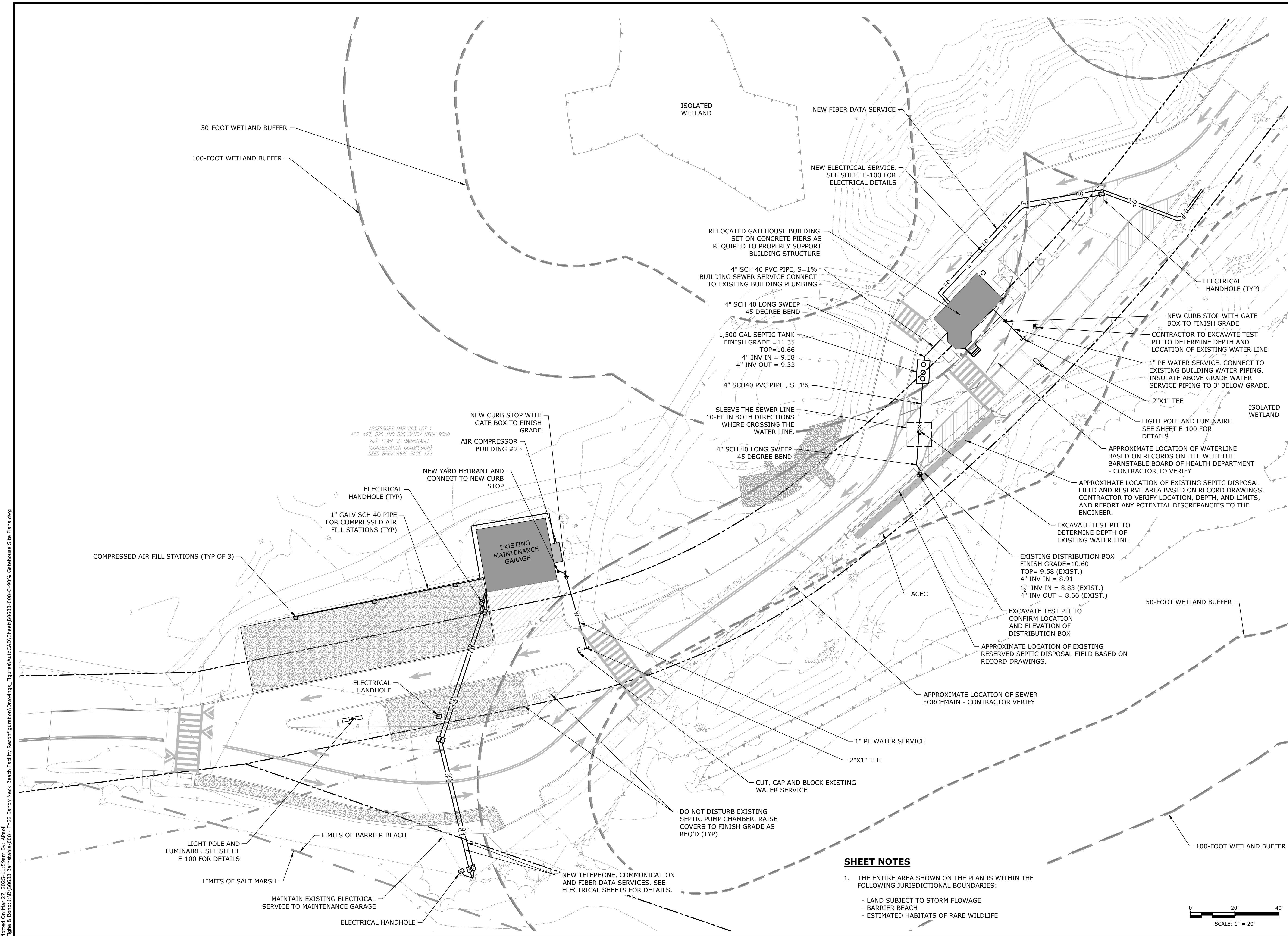
Town of
Barnstable

Barnstable, MA

0	4/1/2025	BID SET
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PROJECT NO: B0633-008		
DATE: 6/27/24		
FILE: B0633-008-C-90% Gatehouse Site Plans.dwg		
DRAWN BY: TJG/SO		
DESIGNED/CHECKED BY: TJG/DJB		
APPROVED BY: BSH		

SCALE: $1" = 20'$

C-405

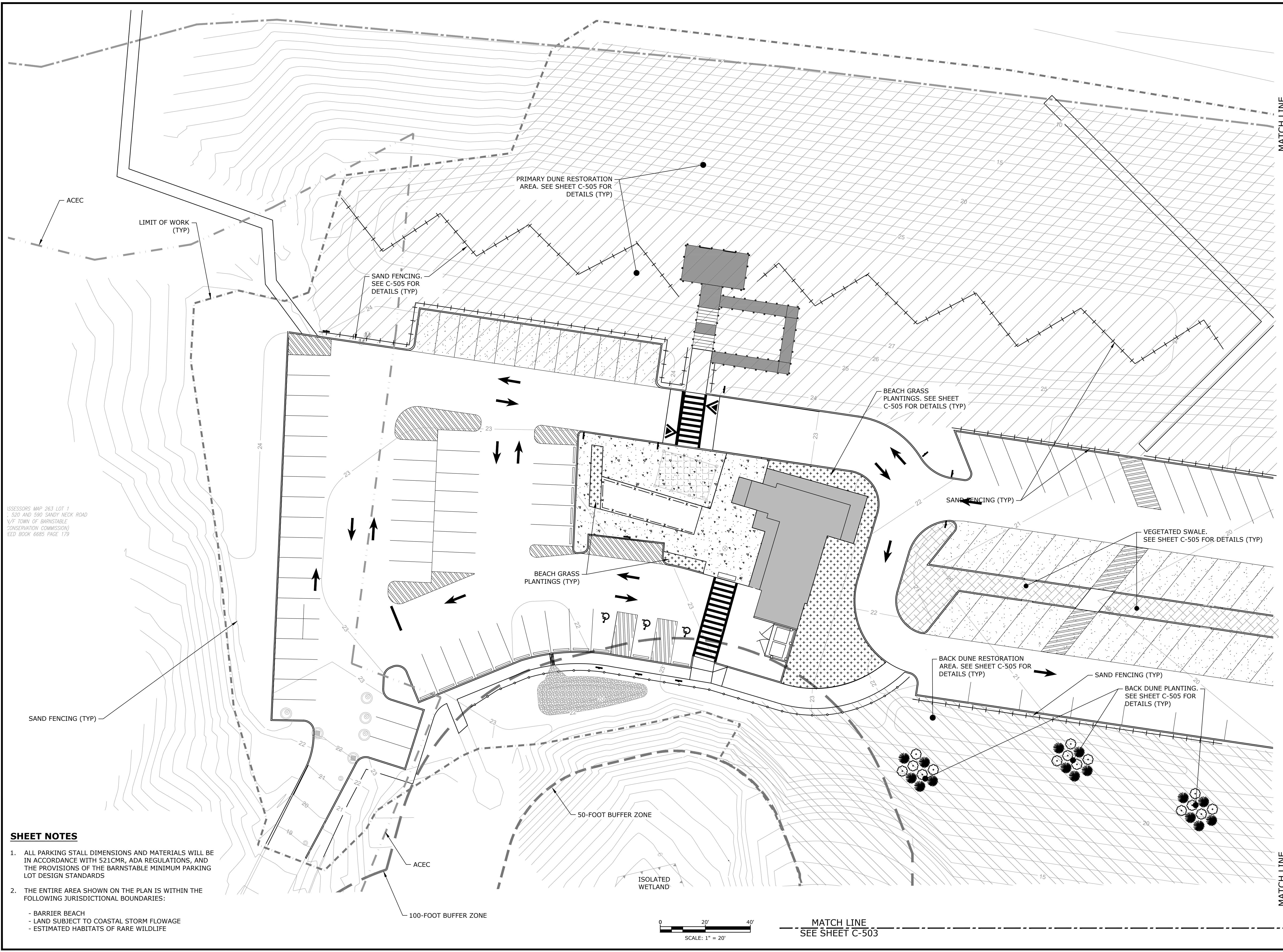


1. THE ENTIRE AREA SHOWN ON THE PLAN IS WITHIN THE FOLLOWING JURISDICTIONAL BOUNDARIES:

- LAND SUBJECT TO STORM FLOWAGE
- BARRIER BEACH
- ESTIMATED HABITATS OF RARE WILDLIFE

Last Saved: 3/21/2025
 Plotted On: Mar 27, 2025 - 11:59am By: APaoili
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Last Saved: 3/27/2025 12:00pm By: J. Bondi
Project: B0633-008 Sandy Neck Beach Facility Reconfiguration Drawings - Figures
Figure: AutocAD Sheet B0633-008-C-90% Site Plans.dwg
Tighe & Bondi 210 Barnstable 008 - 1722 Sandy Neck Beach Facility Reconfiguration Drawings - Figures AutocAD Sheet B0633-008-C-90% Site Plans.dwg



SHEET NOTES

- ALL PARKING STALL DIMENSIONS AND MATERIALS WILL BE IN ACCORDANCE WITH 521CMR, ADA REGULATIONS, AND THE PROVISIONS OF THE BARNSTABLE MINIMUM PARKING LOT DESIGN STANDARDS
- THE ENTIRE AREA SHOWN ON THE PLAN IS WITHIN THE FOLLOWING JURISDICTIONAL BOUNDARIES:
 - BARRIER BEACH
 - LAND SUBJECT TO COASTAL STORM FLOWAGE
 - ESTIMATED HABITATS OF RARE WILDLIFE

Tighe&Bond

Sandy Neck Beach Facility Reconfiguration

Town of Barnstable

Barnstable, MA

0	4/1/2025	BID SET
MARK	DATE	DESCRIPTION
PROJECT NO:		B0633-008
DATE:		9/5/24
FILE:		B0633-008-C-90% Site Plans.dwg
DRAWN BY:		TJG/SO
DESIGNED/CHECKED BY:		TJG/DJB
APPROVED BY:		BSH

SITE LANDSCAPING PLAN - 1

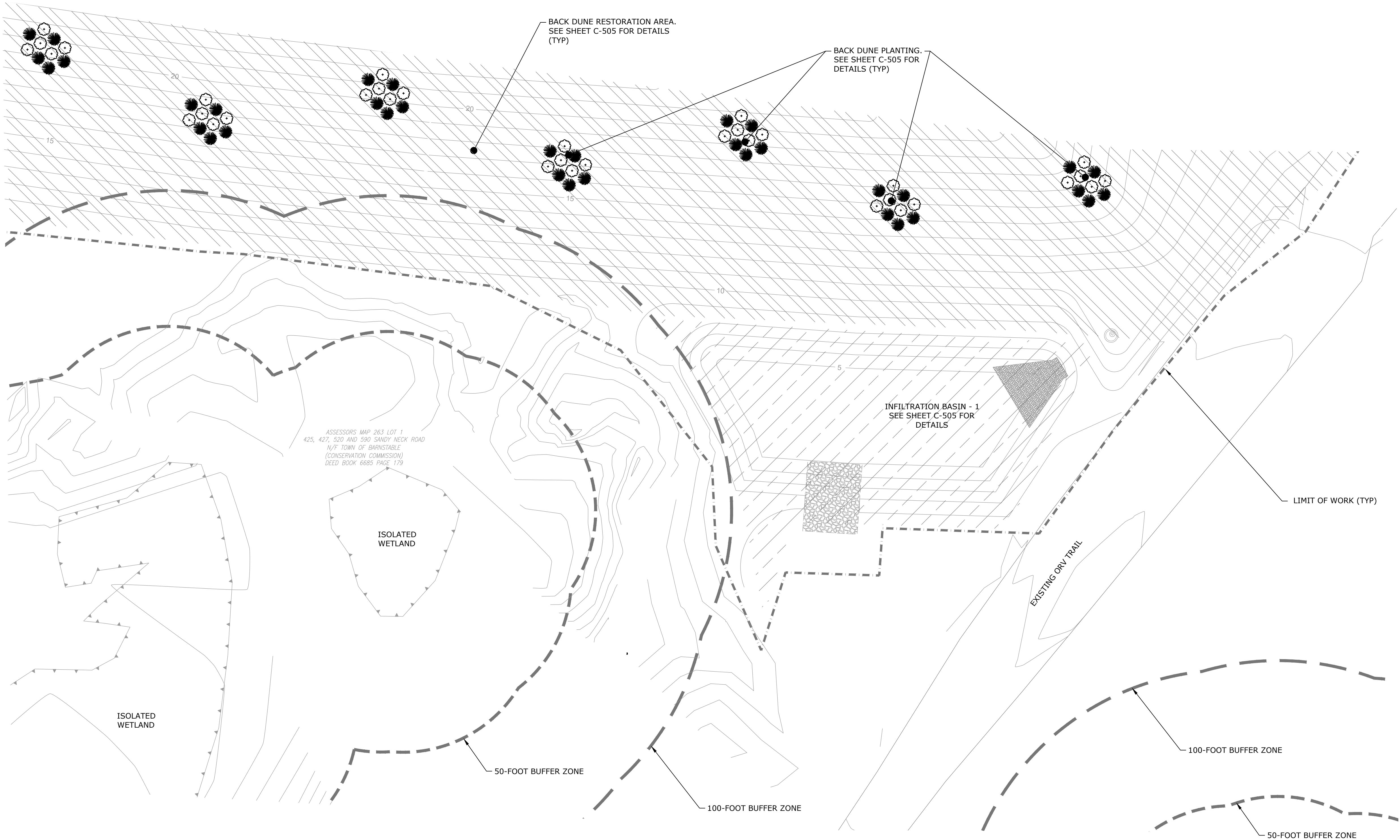
SCALE: 1" = 20'

C-501

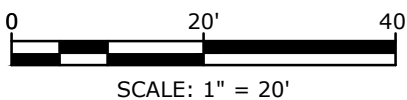
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DATE:		9/5/24
FILE:		B0633-008-C-90% Site Plans.dwg
DRAWN BY:		TJG/SO
DESIGNED/CHECKED BY:		TJG/DJB
APPROVED BY:		BSH



0	4/1/2025	BID SET
MARK	DATE	DESCRIPTION
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DATE:		9/5/24
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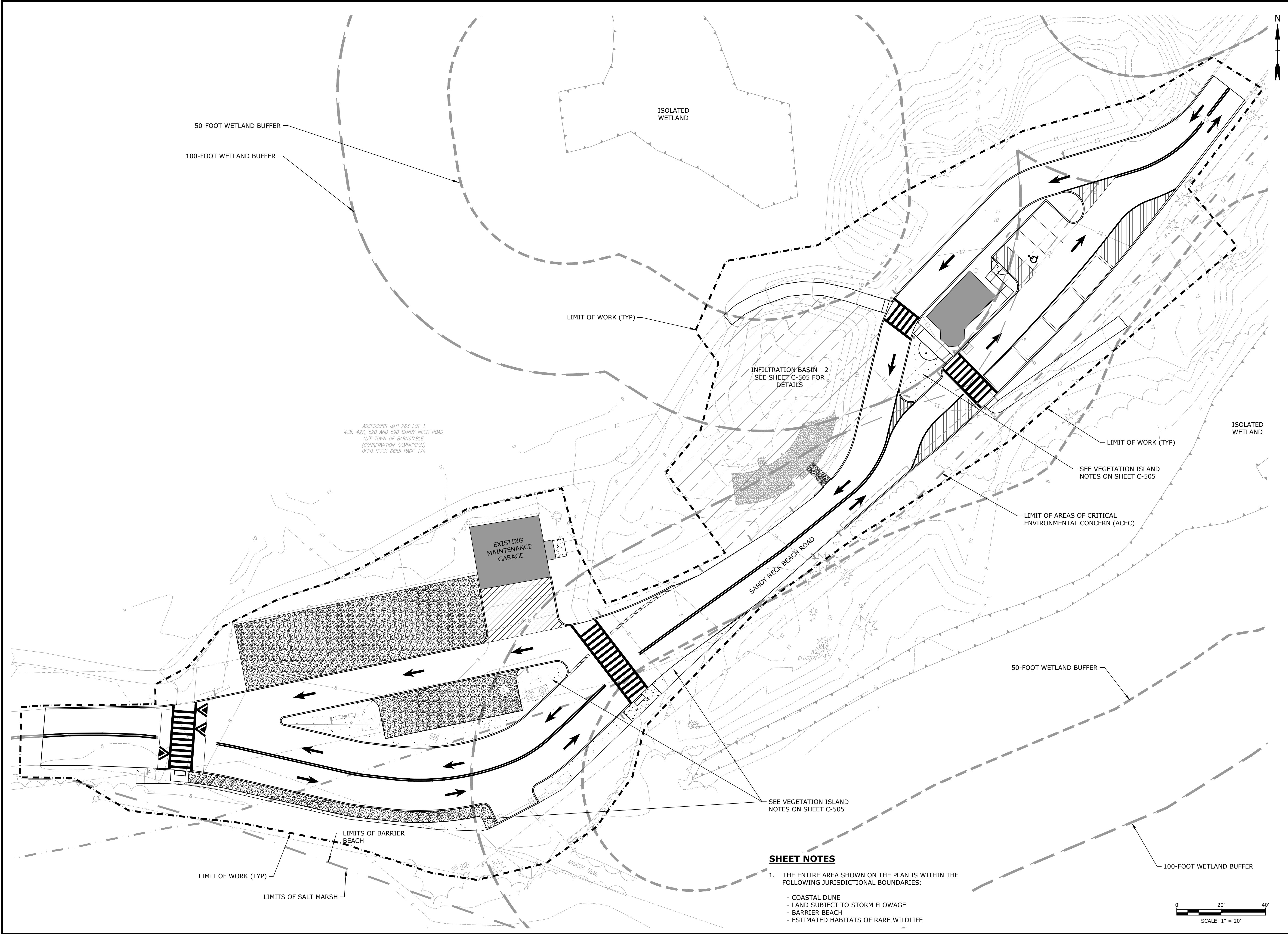


1. THE ENTIRE AREA SHOWN ON THE PLAN IS WITHIN THE FOLLOWING JURISDICTIONAL BOUNDARIES:
 - AREAS OF CRITICAL ENVIRONMENTAL CONCERN (ACEC)
 - BARRIER BEACH
 - LAND SUBJECT TO COASTAL STORM FLOWAGE
 - ESTIMATED HABITATS OF RARE WILDLIFE



Plot On: Mar 27, 2025-12:00pm By: APaoli
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 Last Saved: 3/27/2025

Last Saved: 3/21/2025 11:59am By: JPB
Title: C-504 Sandy Neck Beach Facility Reconfiguration Drawings - Figures
Tighe & Bond 11/10/2023 Barnstable 1008 1722 Sandy Neck Beach Facility Reconfiguration Drawings - Figures
Assessors Map 263 Lot 1 425, 427, 520 AND 590 SANDY NECK ROAD N/F TOWN OF BARNSTABLE (CONSERVATION COMMISSION) DEED BOOK 6685 PAGE 179



SHEET NOTES

1. THE ENTIRE AREA SHOWN ON THE PLAN IS WITHIN THE FOLLOWING JURISDICTIONAL BOUNDARIES:
 - COASTAL DUNE
 - LAND SUBJECT TO STORM FLOWAGE
 - BARRIER BEACH
 - ESTIMATED HABITATS OF RARE WILDLIFE

Tighe&Bond

Sandy Neck Beach Facility Reconfiguration

Town of Barnstable

Barnstable, MA

0	4/1/2025	BID SET
MARK	DATE	DESCRIPTION
PROJECT NO:		B0633-008
DATE:		7/27/23
FILE: B0633-008-C-90% Gatehouse Site Plans.dwg		
DRAWN BY:		TJG/SO
DESIGNED/CHECKED BY:		TJG/DJB
APPROVED BY:		BSH

GATEHOUSE LANDSCAPING PLAN

SCALE: 1" = 20'

C-504

Last Saved: 3/27/2025 12:00pm By: J. Bondi
Project: Sandy Neck Beach Facility Reconfiguration Drawings - Figures AutocAD Sheet B0633-008-C-90% Site Plans.dwg
Title & Content: B0633 Barnstable 008 - 1722 Sandy Neck Beach Facility Reconfiguration Drawings - Figures AutocAD Sheet B0633-008-C-90% Site Plans.dwg

PRIMARY DUNE RESTORATION AREA NOTES

- ONCE GRADING IS COMPLETE, INSTALL SAND FENCING IN A ZIG-ZAG PATTERN ALONG THE DUNE CREST AND IN A STRAIGHT LINE ALONG ALL BEACH ACCESS PATHWAYS.
- SAND FENCING ALONG DUNE CREST TO BE SECURED TO 4"x4"x8' PRESSURE TREATED TIMBERS INSTALLED IN ZIG-ZAG PATTERN AT APPROXIMATELY 10' ON-CENTER LEAVING A 4' REVEAL.
- SAND FENCING ALONG BEACH ACCESS PATHWAYS TO BE SECURED TO 4"x4"x8' PRESSURE TREATED TIMBERS INSTALLED IN A STRAIGHT LINE AT APPROXIMATELY 10' ON-CENTER LEAVING A 4' REVEAL.
- BARE ROOT AMERICAN BEACH GRASS (AMMOPHILA BREVILIGULATA) PLUGS TO BE INSTALLED FROM THE SEAWARD EDGE OF THE DUNE CREST TO THE LANDWARD EDGE OF THE DUNE RESTORATION AREA AT 18" ON-CENTER, 2-3 CULMS PER HOLE. BARE ROOT PLUGS MUST BE INSTALLED DORMANT (BY MARCH 31, 2026). CARE MUST BE TAKEN WHEN BACKFILLING PLANTINGS TO ENSURE RHIZOME IS IN FULL CONTACT WITH SAND AND NO AIR GAP REMAINS.
- IN AREAS WHERE EXISTING BEACH GRASS IS DAMAGED DURING CONSTRUCTION, RE-PLANT AND RESTORE TO PRE-CONSTRUCTION GRADES.

VEGETATED ISLAND RESTORATION AREA NOTES

- 18" OF ENGINEERED SOIL MEDIA TO BE INSTALLED BELOW GRADE IN EACH VEGETATED ISLAND. OVERLAY ENGINEERED SOIL MEDIA WITH 6" OF NATIVE SAND, MATCHING GRADE WITH ADJACENT PARKING AREA.
- ENGINEERED SOIL MEDIA TO HAVE A LOAMY SAND TEXTURE PER USDA TEXTURAL TRIANGLE. THE SOIL MIXTURE SHALL BE 60-70% SAND BY VOLUME WITH 15-25% TOPSOIL OR LOAM BY VOLUME AND 15-25% ORGANIC MATTER BY VOLUME WITH A MAXIMUM SILT AND CLAY CONTENT OF 8%.
- ONCE FINISHED GRADES HAVE BEEN ESTABLISHED, SOW NEW ENGLAND WETLAND PLANTS COASTAL SALT TOLERANT MIX INTO THE SURFACE OF EACH VEGETATED ISLAND AT A RATE OF 23LB. PER ACRE.
- OVERLAY SWALE SIDE SLOPES AND BASE WITH 100% BIODEGRADABLE EROSION CONTROL BLANKET (LANDLOK ENC2, C125BN OR SIMILAR) ANCHORED NO MORE THAN 3' APART VERTICALLY AND 1' APART HORIZONTALLY WITH BIODEGRADABLE STAPLES.
- ONCE THE VEGETATED ISLAND HAS BEEN SEEDED AND STABILIZED, INSTALL AMERICAN BEACHGRASS (AMMOPHILA BREVILIGULATA), LITTLE BLUESTEM (SCHIZACHYRIUM SCOPARIUM), SEASIDE GOLDENROD (SOLIDEGO SEMPERVIRENS) AND BUTTERFLY WEED (ASCLEPIAS TUBEROSA) PLUG PLANTINGS AT 36" ON-CENTER.
- TO IMPROVE SURVIVORSHIP OF NATIVE PLANTINGS AND SEED, TEMPORARY IRRIGATION WILL BE REQUIRED FOR A MINIMUM OF 2 GROWING SEASONS.
- IN RESTORATION AREA SOUTH OF EXISTING GATEHOUSE, INSTALL ONE-GALLON HIGH TIDE BUSH (BACCHARIS HAMMIFOLIA) PLANTINGS AT 8' ON-CENTER.

VEGETATED SWALE

- 24" OF ENGINEERED SOIL MEDIA TO BE INSTALLED BELOW GRADE IN EACH SWALE. OVERLAY ENGINEERED SOIL MEDIA WITH 2" MINIMUM OF NATIVE SAND, MEETING FINISHED GRADE.
- ENGINEERED SOIL MEDIA TO HAVE A LOAMY SAND TEXTURE PER USDA TEXTURAL TRIANGLE. THE SOIL MIXTURE SHALL BE 60-70% SAND BY VOLUME WITH 15-25% TOPSOIL OR LOAM BY VOLUME AND 15-25% ORGANIC MATTER BY VOLUME WITH A MAXIMUM SILT AND CLAY CONTENT OF 8%.
- SWALE SIDE SLOPES TO BE GRADED AT 3:1 TO A 18"-24" WIDE BASE (VARIABLE).
- AFTER FINISHED GRADES HAVE BEEN ESTABLISHED, SIDE SLOPES AND BASE OF SWALE TO BE SOWED WITH NEW ENGLAND WETLAND PLANTS COASTAL SALT TOLERANT MIX AT A RATE OF 23LB. PER ACRE.
- OVERLAY SWALE SIDE SLOPES AND BASE WITH 100% BIODEGRADABLE EROSION CONTROL BLANKET (LANDLOK ENC2, C125BN OR SIMILAR) ANCHORED NO MORE THAN 3' APART VERTICALLY AND 1' APART HORIZONTALLY WITH BIODEGRADABLE STAPLES.
- ONCE THE SWALE HAS BEEN SEEDED AND STABILIZED, AMERICAN BEACHGRASS (AMMOPHILA BREVILUGULATA) SWITCHGRASS (PANICUM VIRGATUM), LITTLE BLUESTEM (SCHIZACHYRIUM SCOPARIUM), SEASIDE GOLDENROD (SOLIDEGO SEMPERVIRENS) AND BUTTERFLY WEED (ASCLEPIAS TUBEROSA) PLUG PLANTINGS AT 36" ON-CENTER.
- TO IMPROVE SURVIVORSHIP OF NATIVE PLANTINGS AND SEED, TEMPORARY IRRIGATION WILL BE REQUIRED FOR A MINIMUM OF 2 GROWING SEASONS.
- AT PEDESTRIAN CROSSINGS, FINISHED GRADE OF ADJACENT PARKING AREA TO BE CARRIED ACROSS SWALE USING NATIVE SAND OVERLAIN WITH MOBIMAT.
- OTHER NATIVE PLANTS MAY BE ADDED PER THE SANDY NECK PARK MANAGER AND APPROVED THE CONSERVATION AGENT.

BACK DUNE RESTORATION AREA

ALTERNATIVE 1:

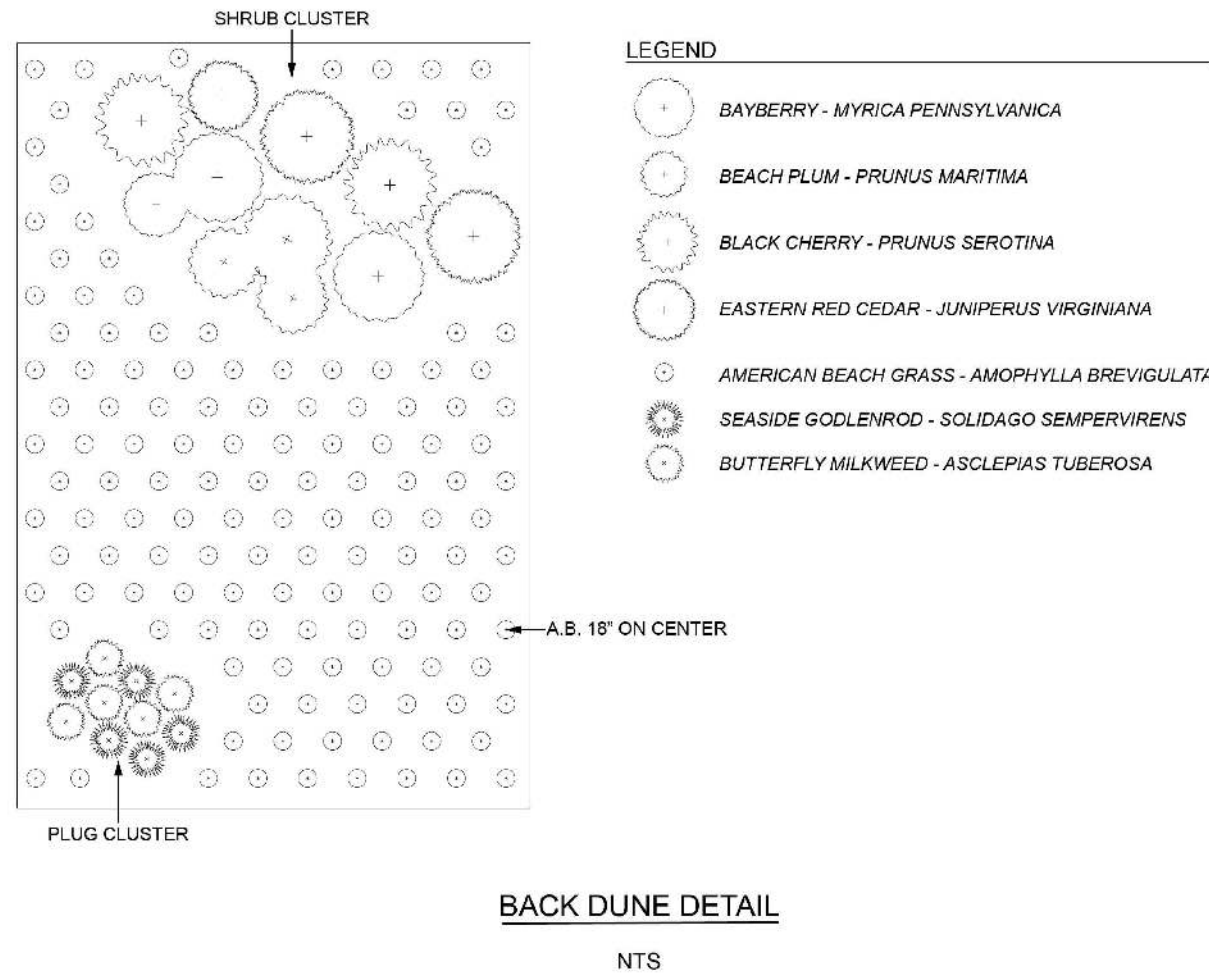
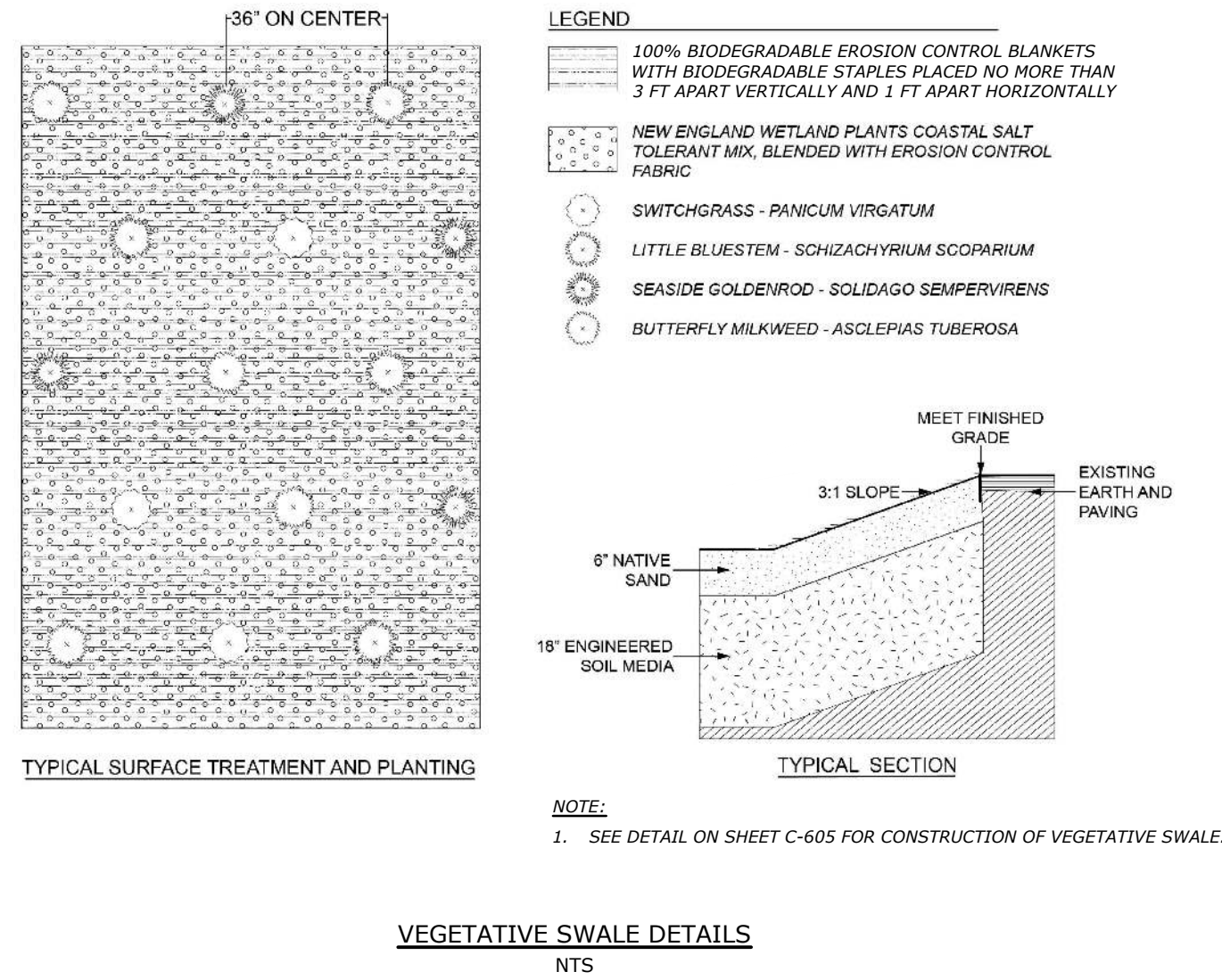
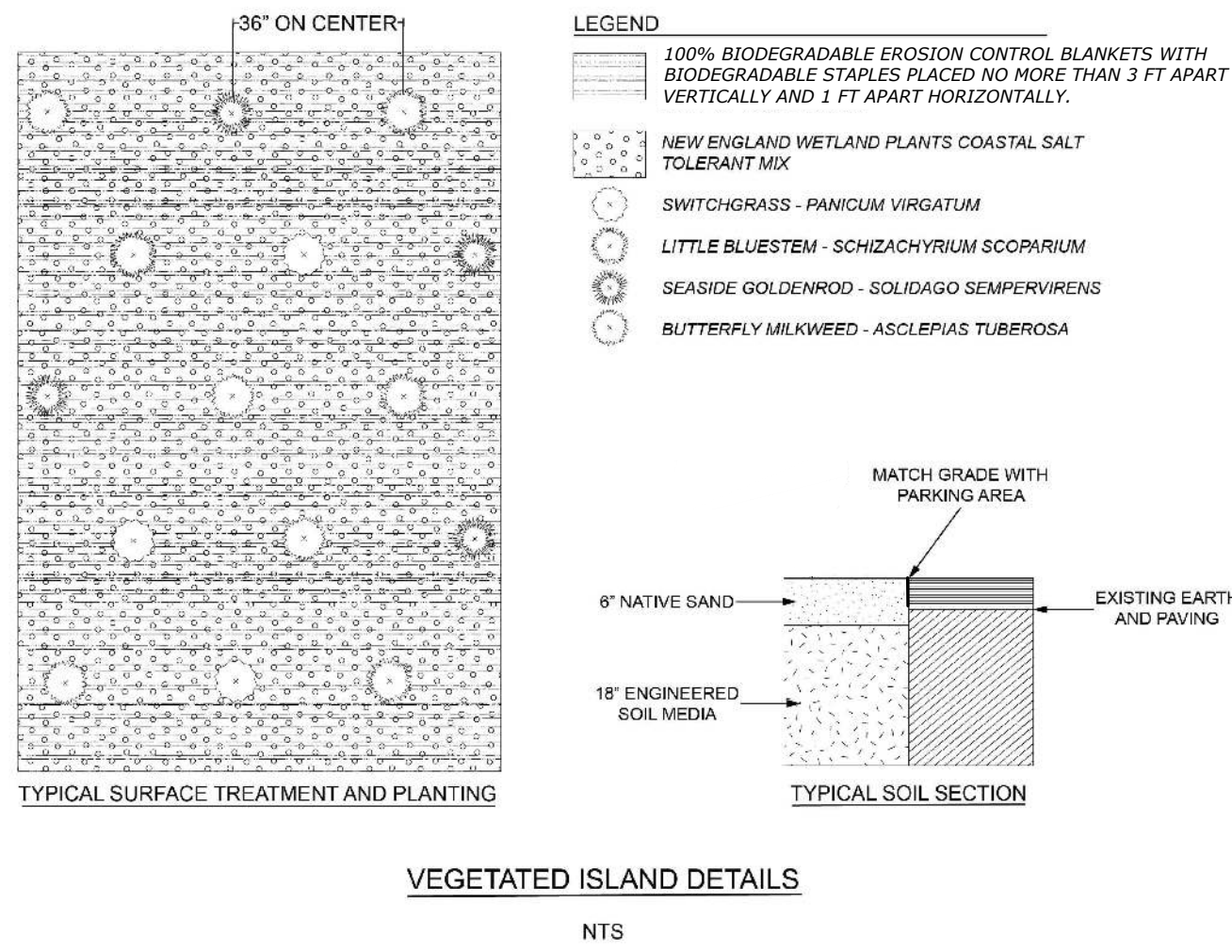
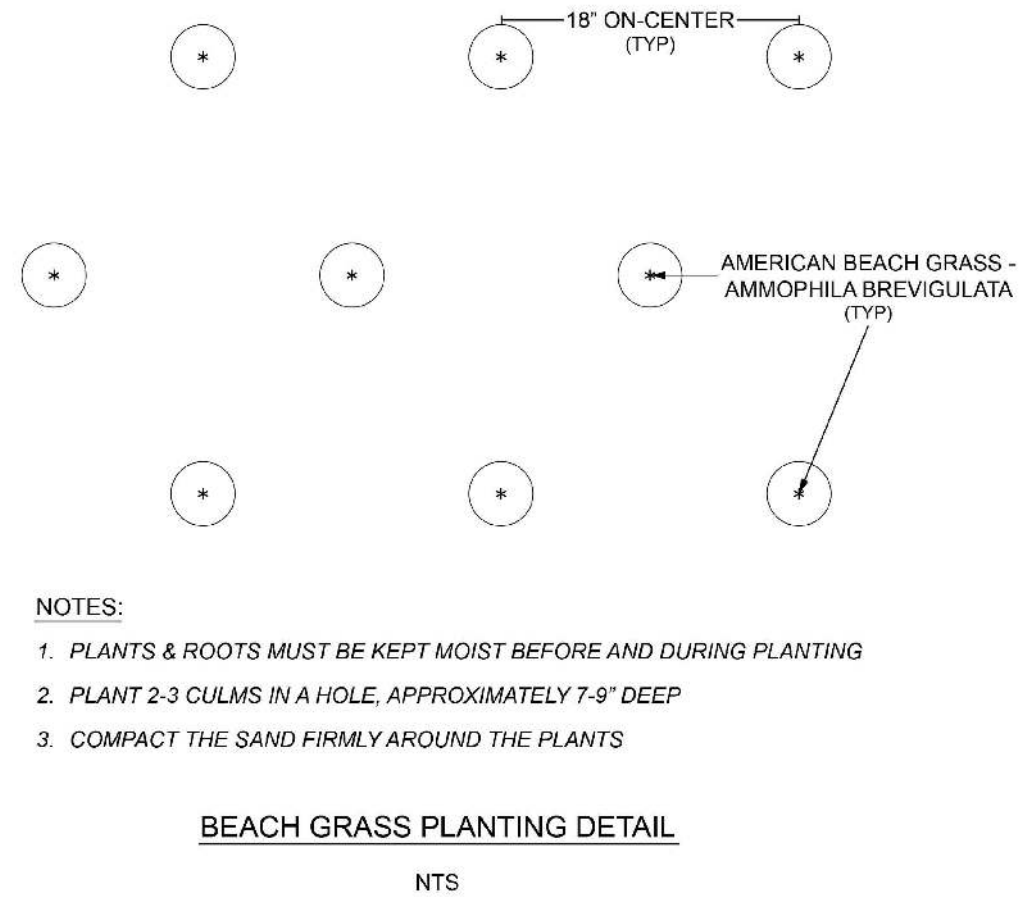
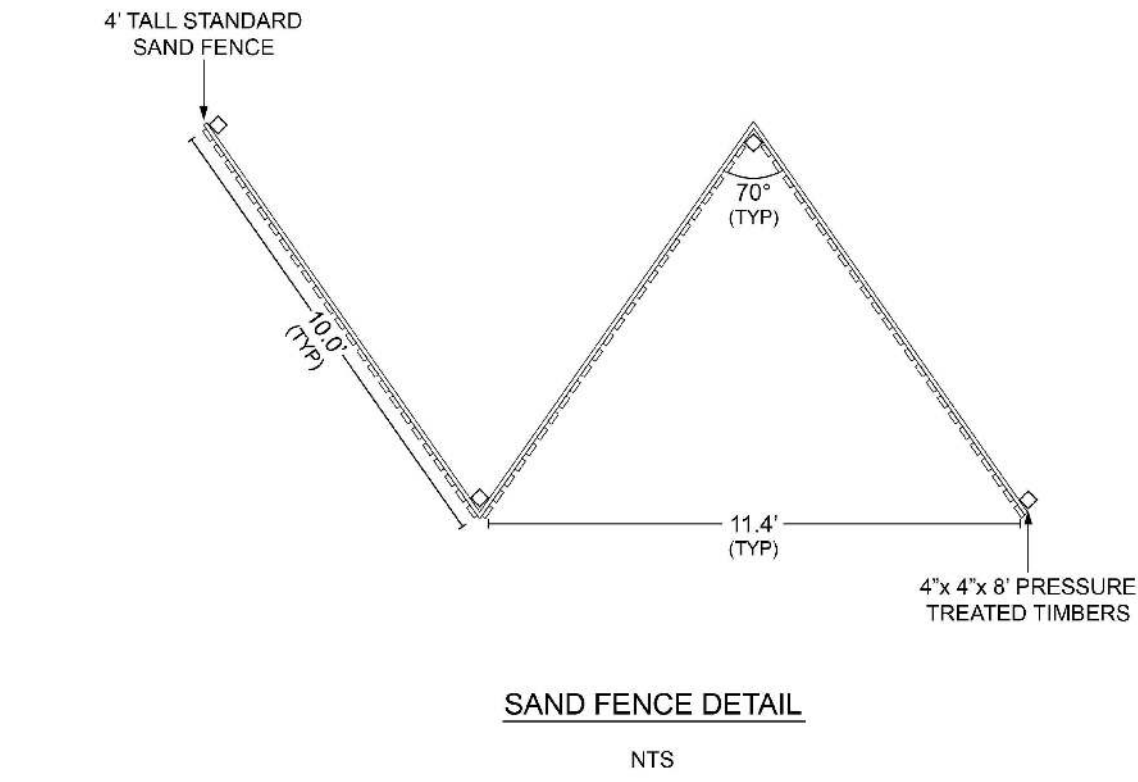
- ONCE GRADING IS COMPLETE, INSTALL SAND FENCING IN A ZIG-ZAG PATTERN ALONG THE BACK DUNE CREST.
- SAND FENCING ALONG BACK DUNE CREST TO BE SECURED TO 4"x4"x8' PRESSURE TREATED TIMBERS INSTALLED IN ZIG-ZAG PATTERN AT APPROXIMATELY 10' ON-CENTER LEAVING A 4' REVEAL.
- EXISTING SHRUBS (MYRICA PENNSYLVANICA), BEACH PLUM (PRUNUS MARITIMA), BLACK CHERRY (PRUNUS SERROTINA) AND/OR EASTERN RED CEDAR (JUNIPERUS VIRGINIANA) TO BE SPADED FROM DISTURBED AREA SOUTH OF LOWER PARKING LOT AND REPLANTED IN CLUSTERS ALONG CREST OF DUNE AT 50' ON-CENTER THROUGHOUT BACK DUNE RESTORATION AREA.
- REPLANTED SHRUBS SHOULD BE REINSTALLED IN HOLE LINED WITH LOAM-COMPOST AND SOIL AMENDMENTS (TREESAVER, OR SIMILAR).
- SHRUB PLANTINGS TO BE SUPPLEMENTED WITH BARE ROOT AMERICAN BEACH GRASS (AMMOPHILA BREVILIGULATA) PLUGS INSTALLED AT 18" ON-CENTER, 2-3 CULMS PER HOLE AND 10 SEASIDE GOLDENROD (SOLIDAGO SEMPERVIRENS) PLUGS TO BE INSTALLED AT 50-FEET ON-CENTER. BARE ROOT PLUGS MUST BE INSTALLED DORMANT (BY APRIL 1). CARE MUST BE TAKEN WHEN BACKFILLING PLANTINGS TO ENSURE RHIZOME IS IN FULL CONTACT WITH SAND AND NO AIR GAP REMAINS.
- BARE ROOT BEACH GRASS MAY BE SALVAGED FROM THE AREA OF DISTURBANCE FROM THE NEW PARKING LOT AND REPLANTED ON THE BACK DUNE.

ALTERNATIVE 2:

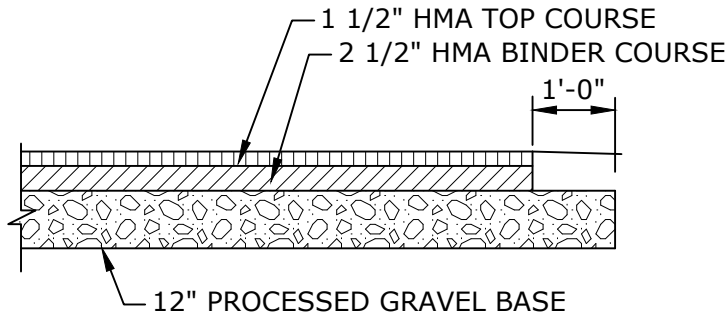
- ONCE GRADING IS COMPLETE, INSTALL SAND FENCING IN A ZIG-ZAG PATTERN ALONG THE DUNE CREST.
- SAND FENCING ALONG DUNE CREST TO BE SECURED TO 4"x4"x8' PRESSURE TREATED TIMBERS INSTALLED IN ZIG-ZAG PATTERN AT APPROXIMATELY 10' ON-CENTER LEAVING A 4' REVEAL.
- IF NOT POSSIBLE TO TRANSPLANT EXISTING SHRUBS, ONE-GALLON POTS OF BAYBERRY (MYRICA PENNSYLVANICA) AND BEACH PLUM (PRUNUS MARITIMA) SHRUBS TO BE FURNISHED AND INSTALLED IN CLUSTERS OF 10 PLANTINGS AT 50 FEET ON CENTER THROUGHOUT BACK DUNE RESTORATION AREA.
- SHRUB PLANTINGS TO BE SUPPLEMENTED WITH BARE ROOT AMERICAN BEACH GRASS (AMMOPHILA BREVILIGULATA) PLUGS INSTALLED AT 18" ON-CENTER, 2-3 CULMS PER HOLE. AND 10 SEASIDE GOLDENROD (SOLIDAGO SEMPERVIRENS) PLUGS TO BE INSTALLED AT 50-FEET ON-CENTER. BARE ROOT PLUGS MUST BE INSTALLED DORMANT (BY APRIL 1). CARE MUST BE TAKEN WHEN BACKFILLING PLANTINGS TO ENSURE RHIZOME IS IN FULL CONTACT WITH SAND AND NO AIR GAP REMAINS.

INFILTRATION BASINS 1 AND 2 RESTORATION AREA

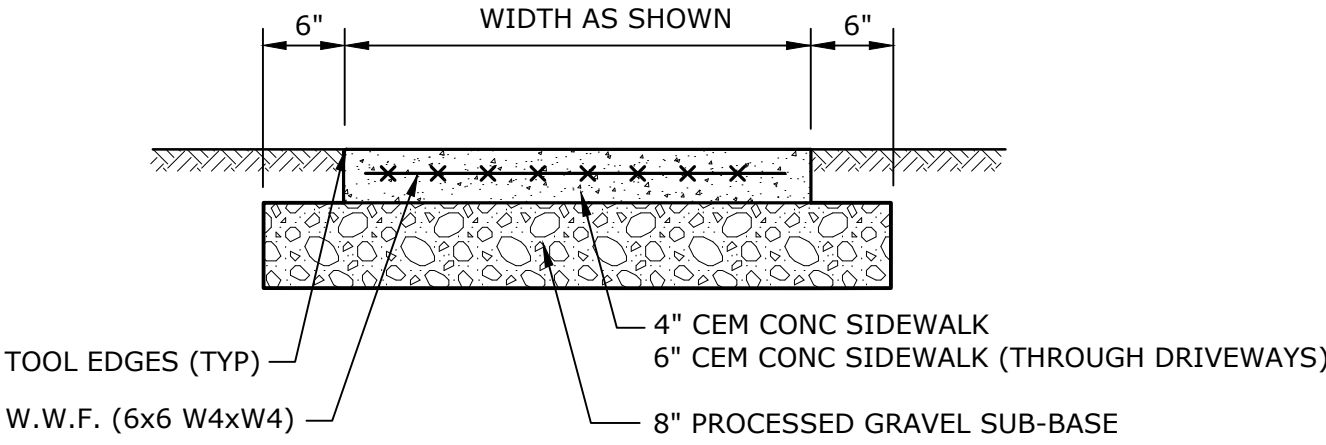
- INFILTRATION BASIN SIDE SLOPES TO BE GRADED AT 3:1 TO BASE OF PIT.
- INSTALL SWITCHGRASS (PANICUM VIRGATUM), LITTLE BLUESTEM (SCHIZACHYRIUM SCOPARIUM), SEASIDE GOLDENROD (SOLIDEGO SEMPERVIRENS) AND BUTTERFLYWEED (ASCLEPIAS TUBEROSA) PLUG PLANTINGS THROUGHOUT INFILTRATION BASIN RESTORATION AREA AT 36" ON-CENTER.
- TO ENSURE SURVIVORSHIP OF NATIVE PLANTINGS, TEMPORARY IRRIGATION WILL BE REQUIRED FOR A MINIMUM OF 2 GROWING SEASONS.
- OTHER NATIVE PLANTS MAY BE ADDED OR SPACING MAY BE MODIFIED PER THE SANDY NECK PARK MANAGER AND APPROVED THE CONSERVATION AGENT.
- FOR THE INFILTRATION BASIN 2 AREA ADJACENT THE NEW GATEHOUSE, USE NATIVE SAND EXCAVATED FROM GATEHOUSE CONSTRUCTION AND SALVAGED PLANT MATERIALS AS MUCH AS POSSIBLE.



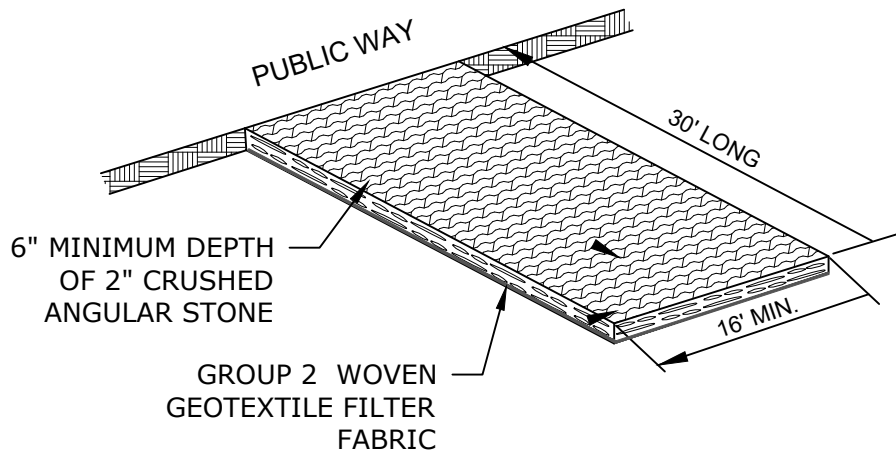
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DRAWN BY:		TJG/SO
DESIGNED/CHECKED BY:		TJG/DJB
APPROVED BY:		BSH
SITE LANDSCAPING NOTES AND DETAILS		
SCALE:		1" = 20'
C-505		



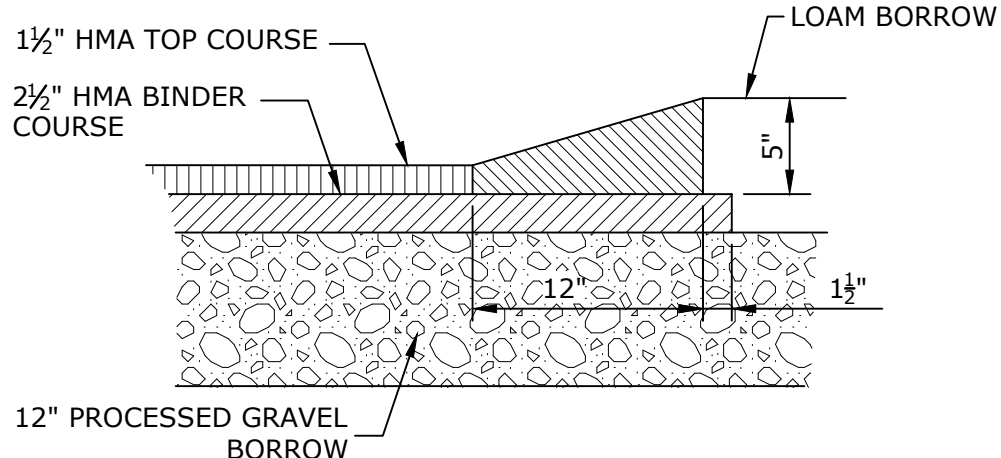
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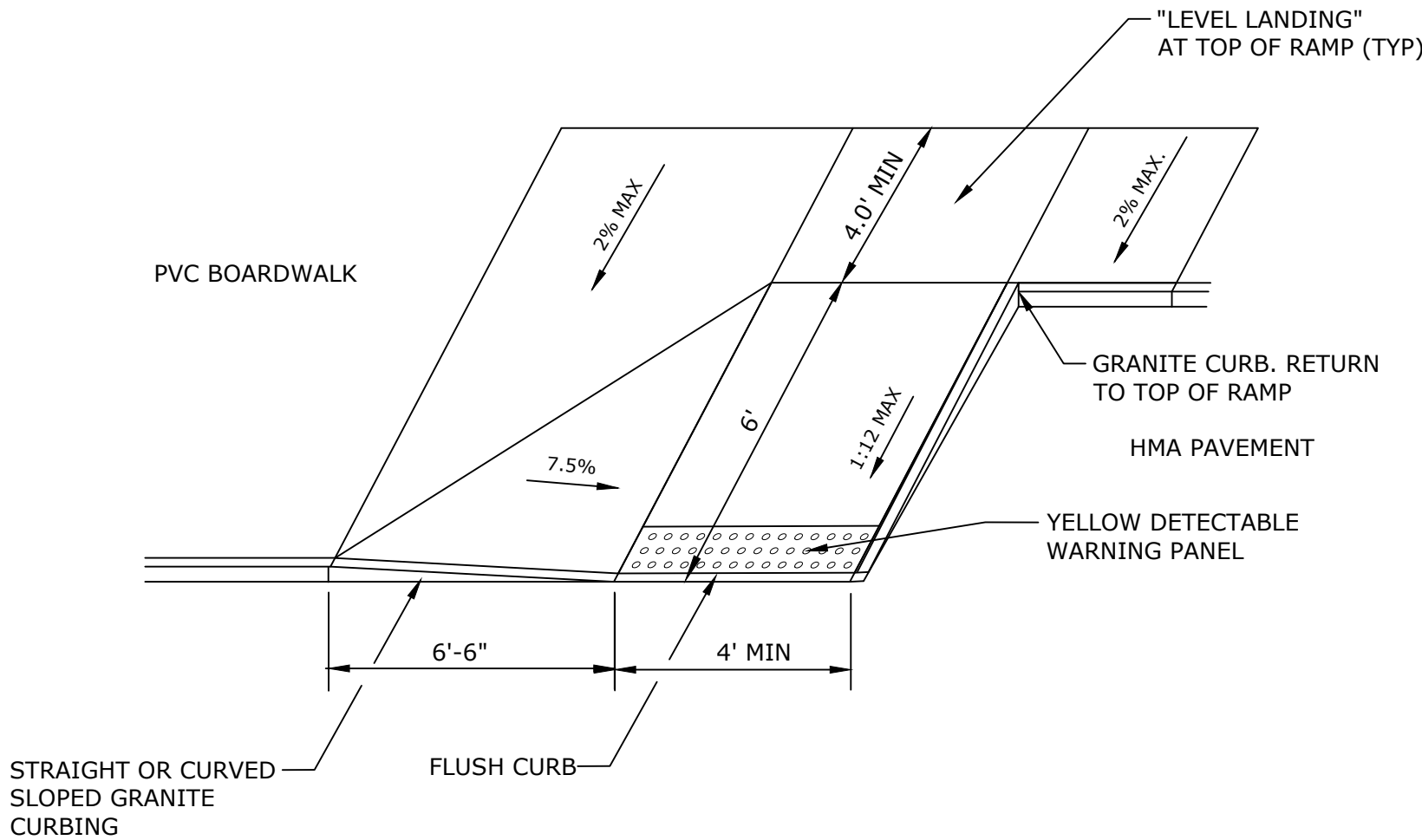
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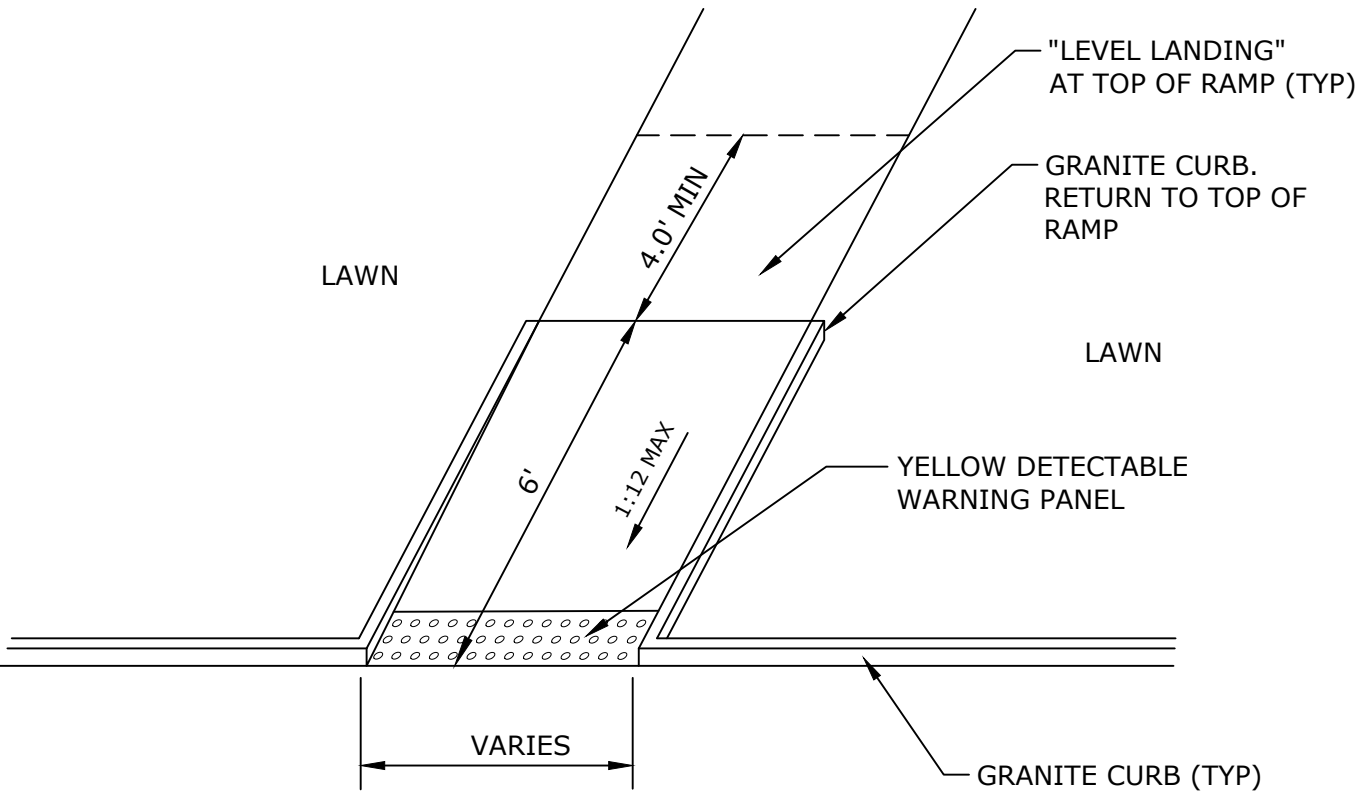
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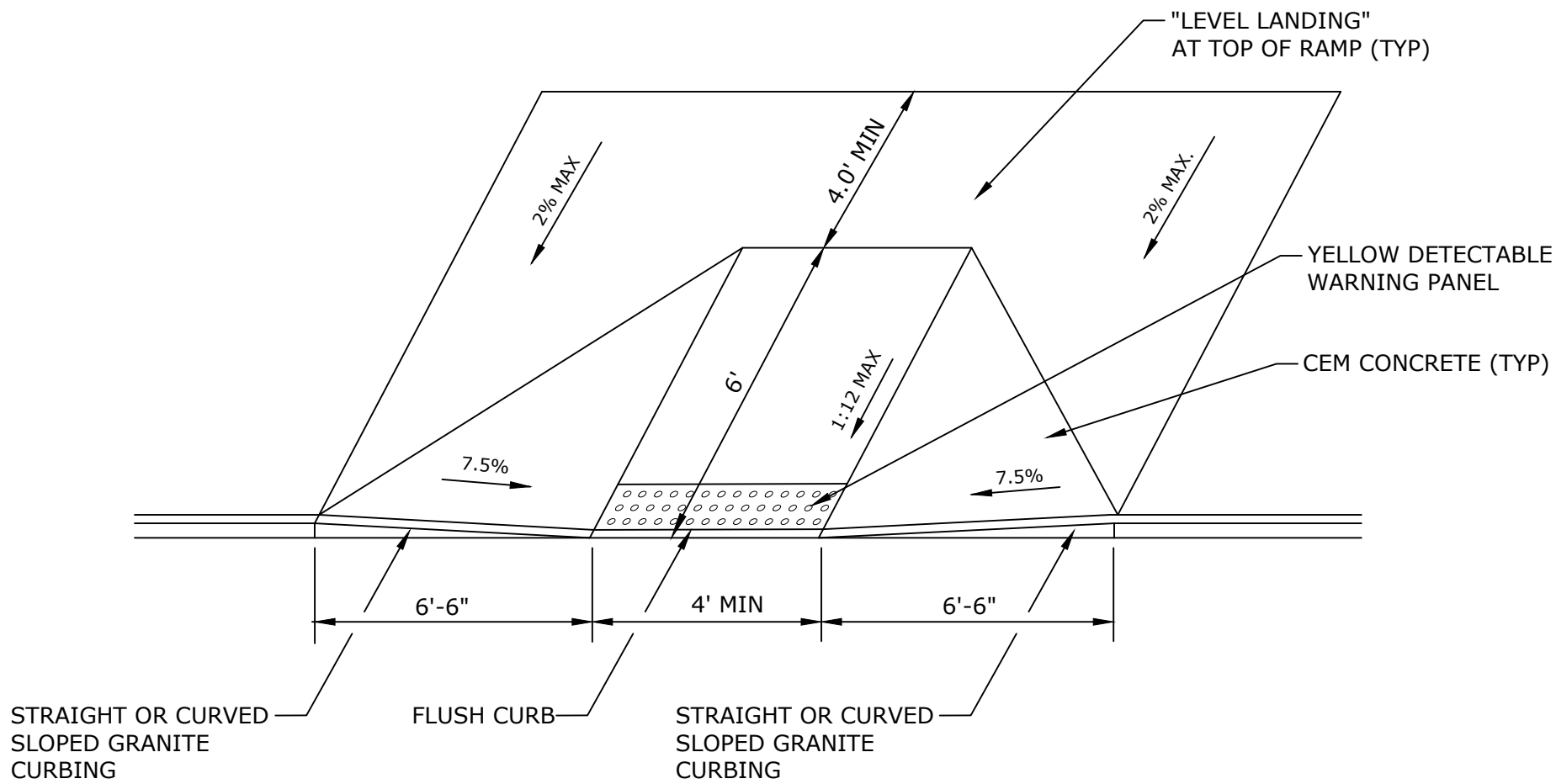
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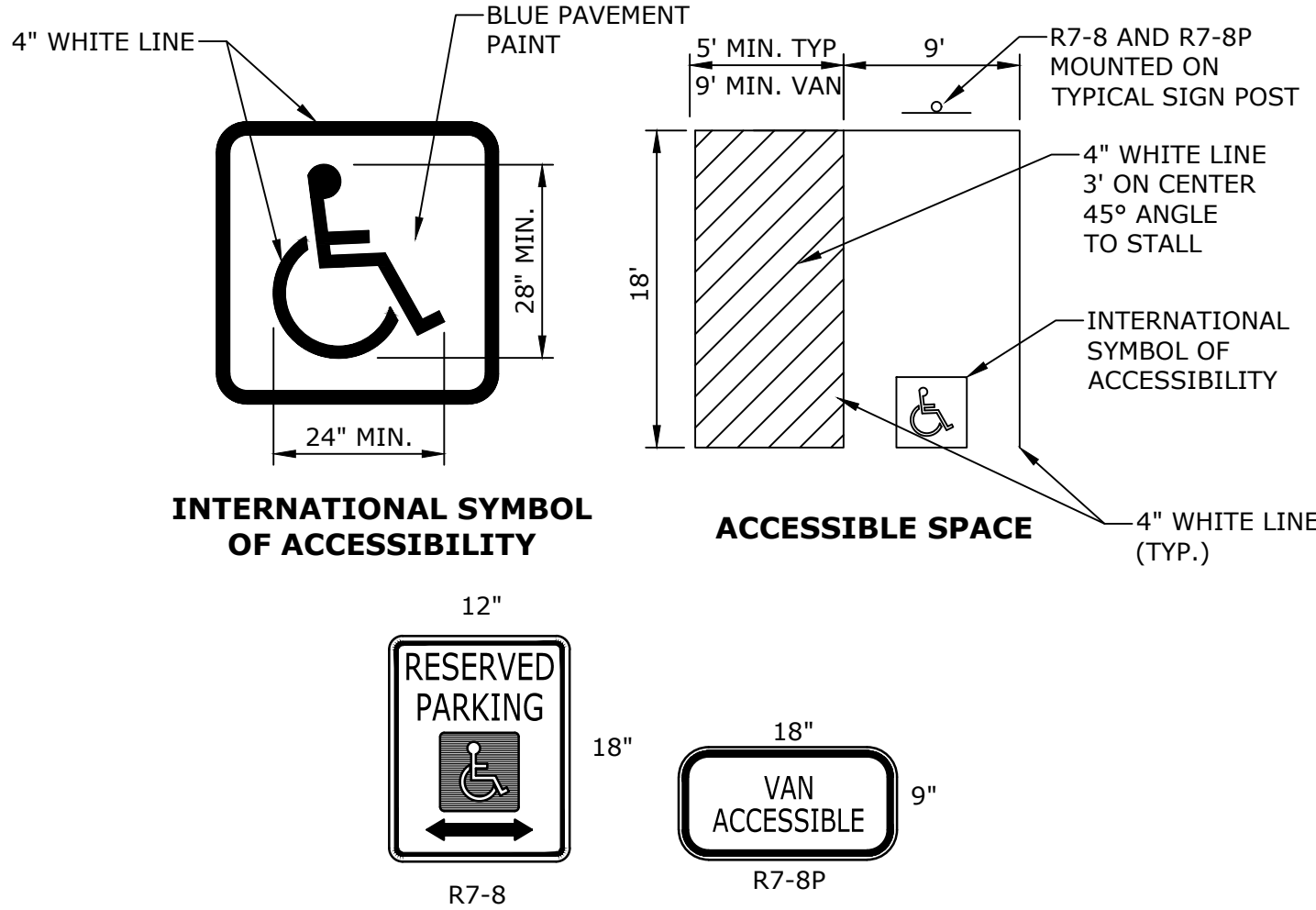
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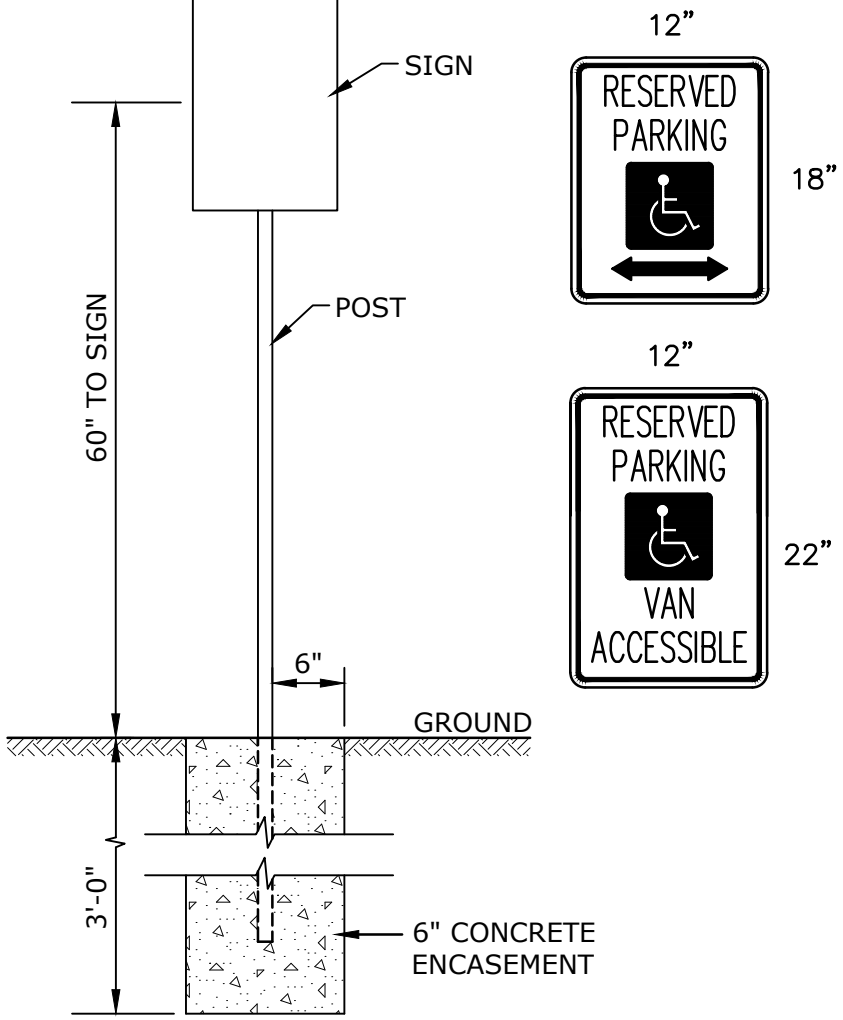


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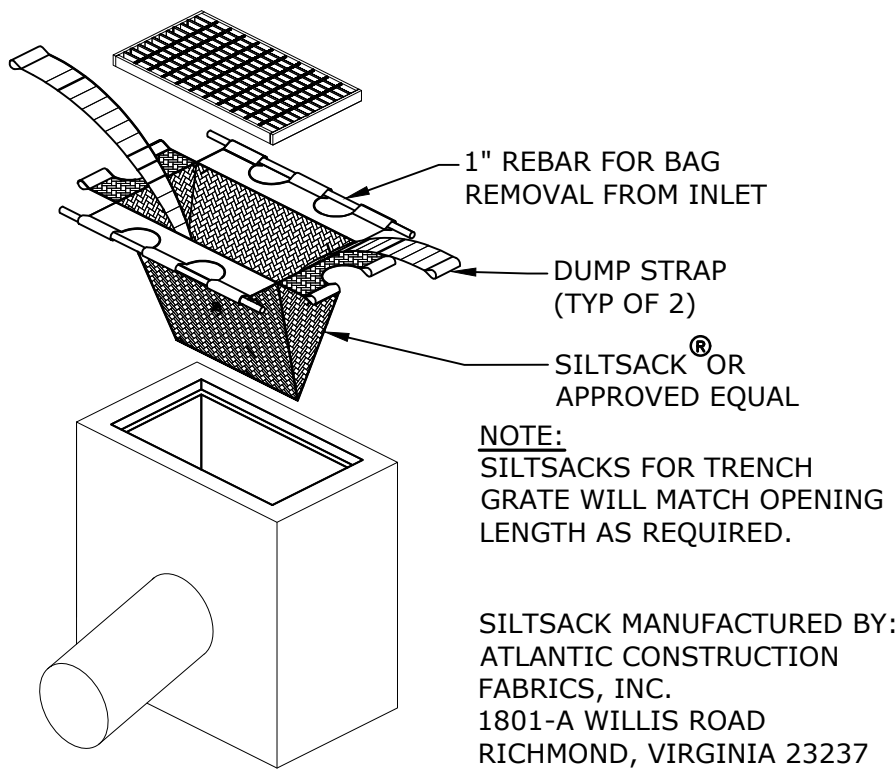


- NOTES:
1. SIGN BACKGROUND - BLUE REFLECTIVE
 2. LETTERS, GRAPHICS & BORDER - WHITE REFLECTIVE

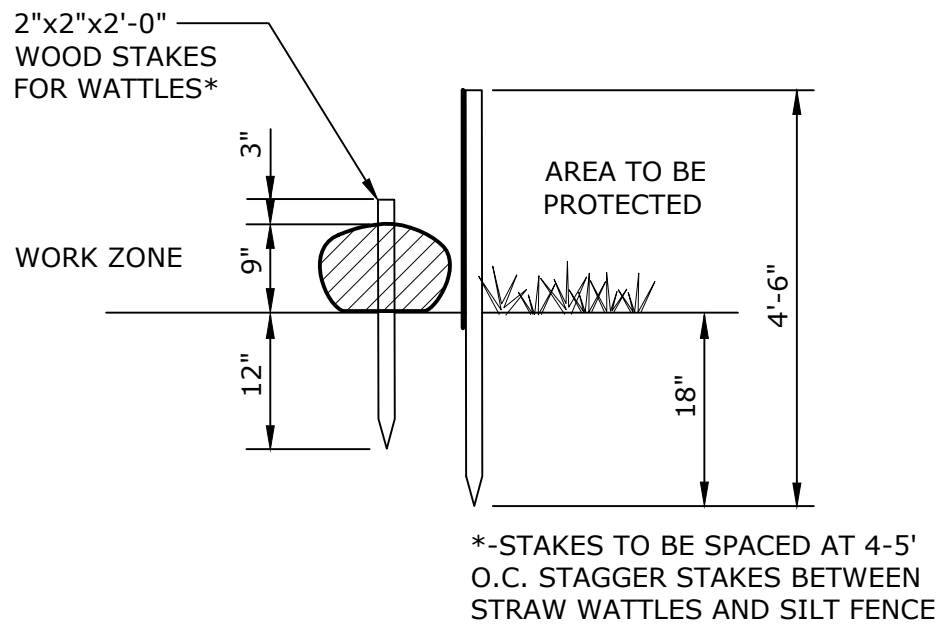
HANDICAPPED STRIPING AND SIGNAGE DETAIL
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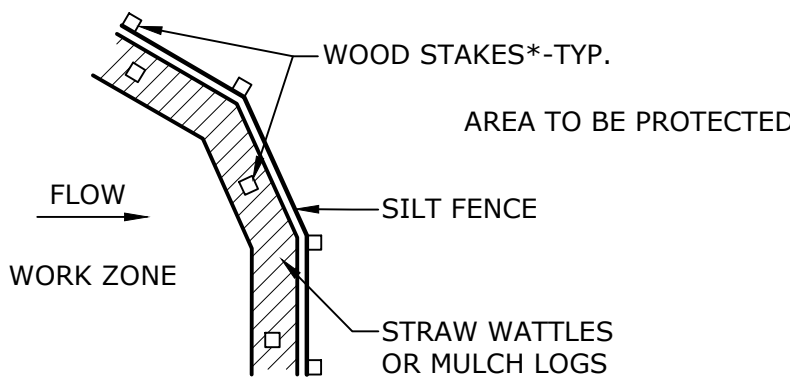
TYPICAL HANDICAPPED SIGNPOST
NO SCALE



SILTSACK® EROSION CONTROL
NO SCALE



SECTION



PLAN

EROSION CONTROL BARRIER
NO SCALE

Sandy Neck
Beach Facility
Reconfiguration

Town of
Barnstable

Barnstable, MA

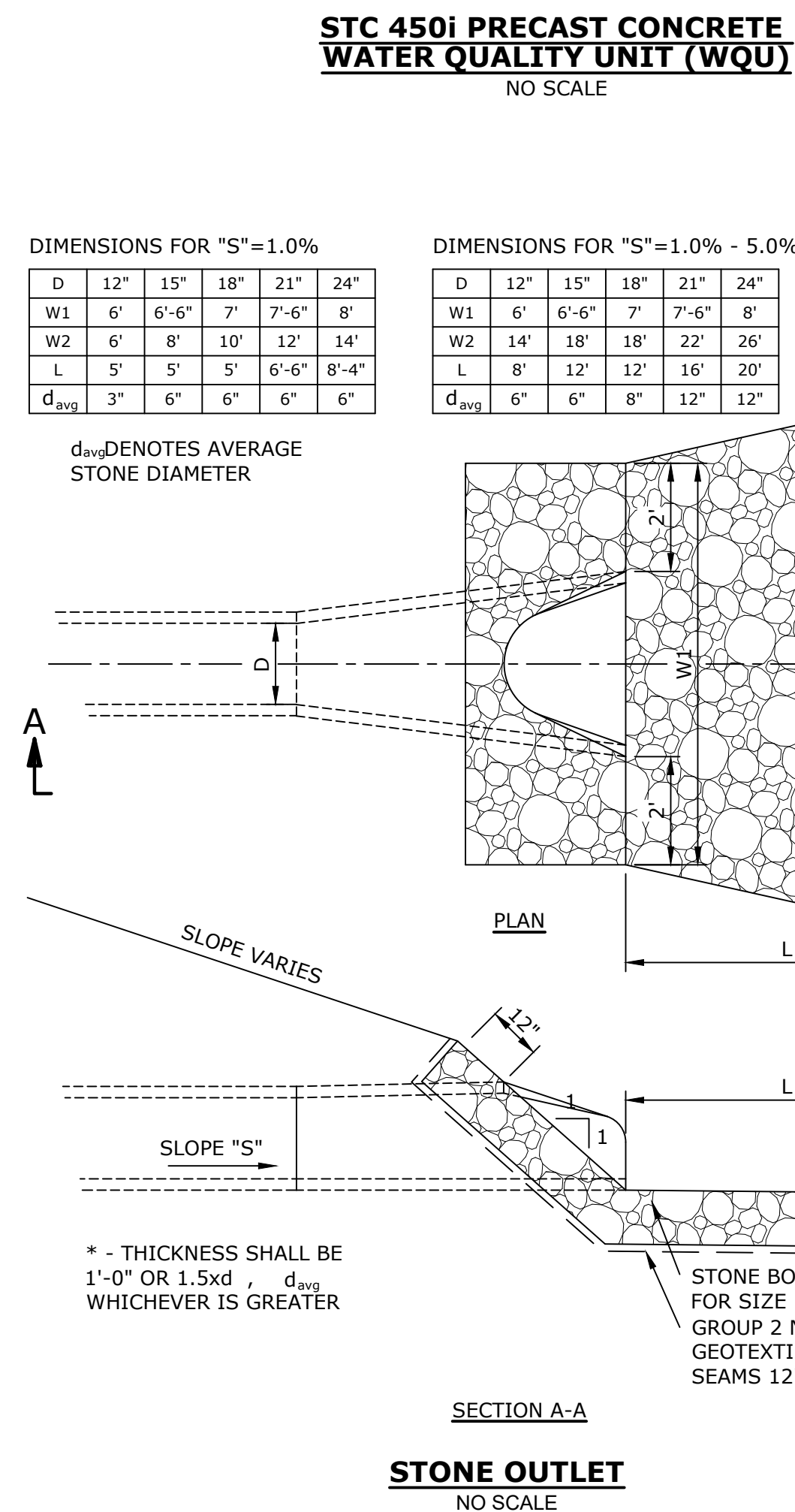
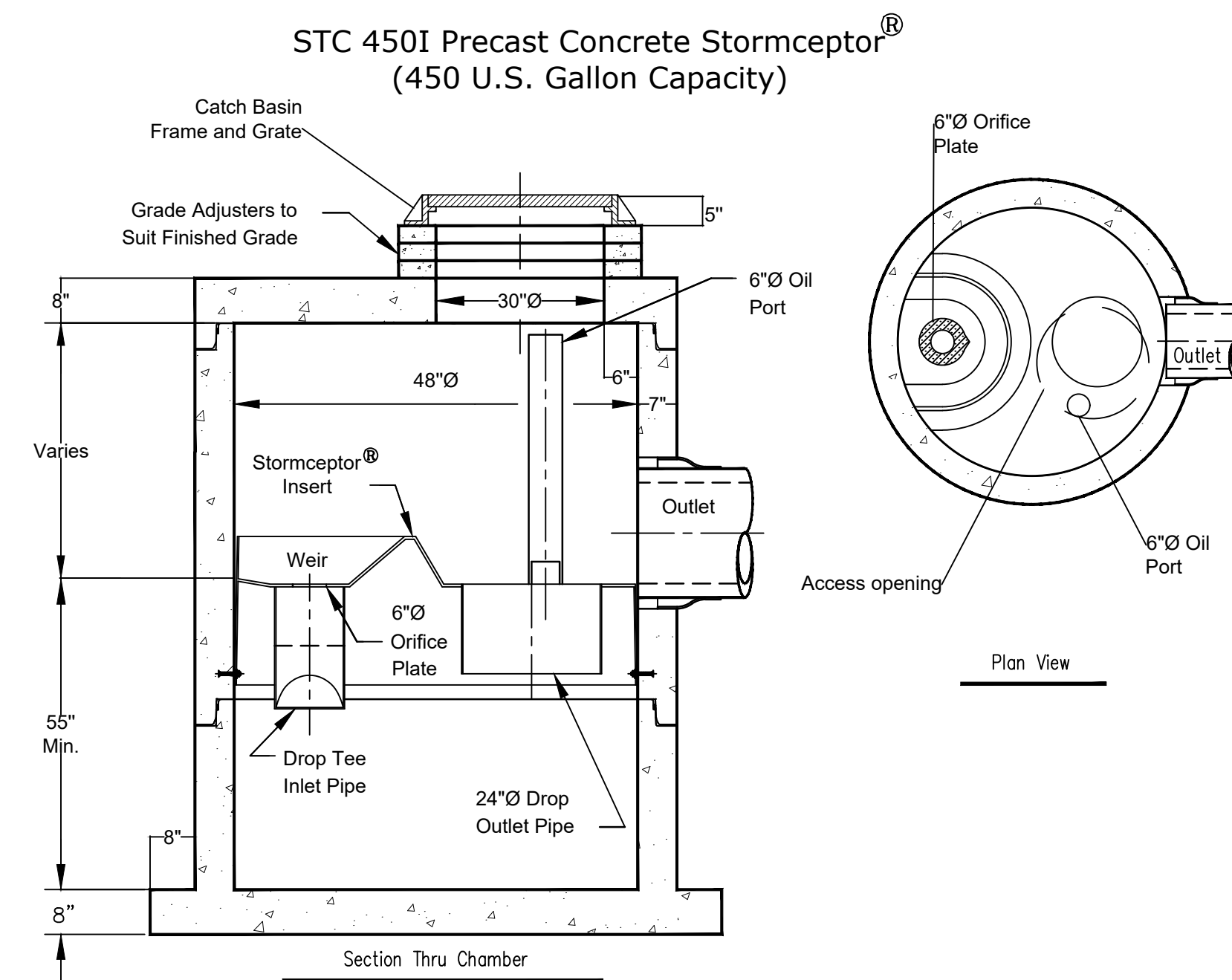
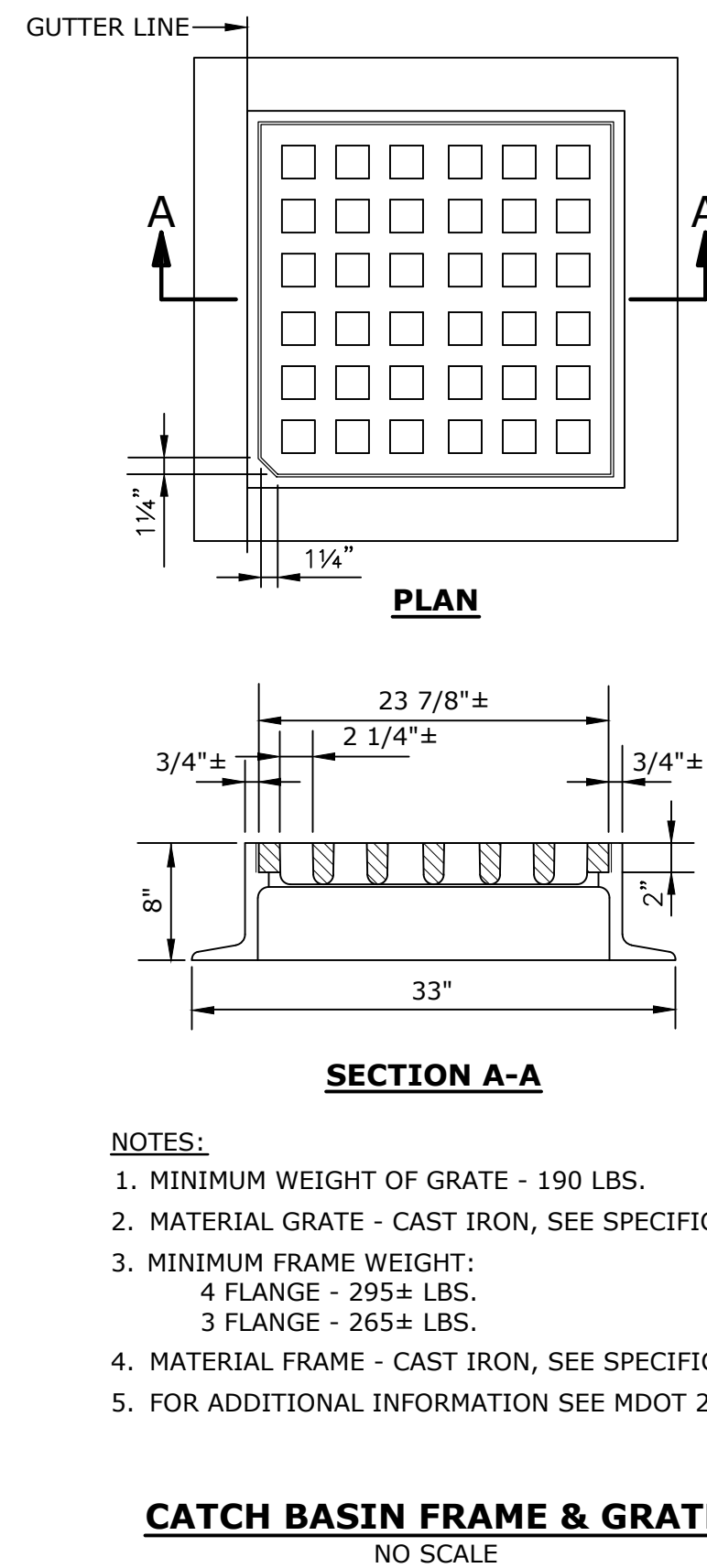
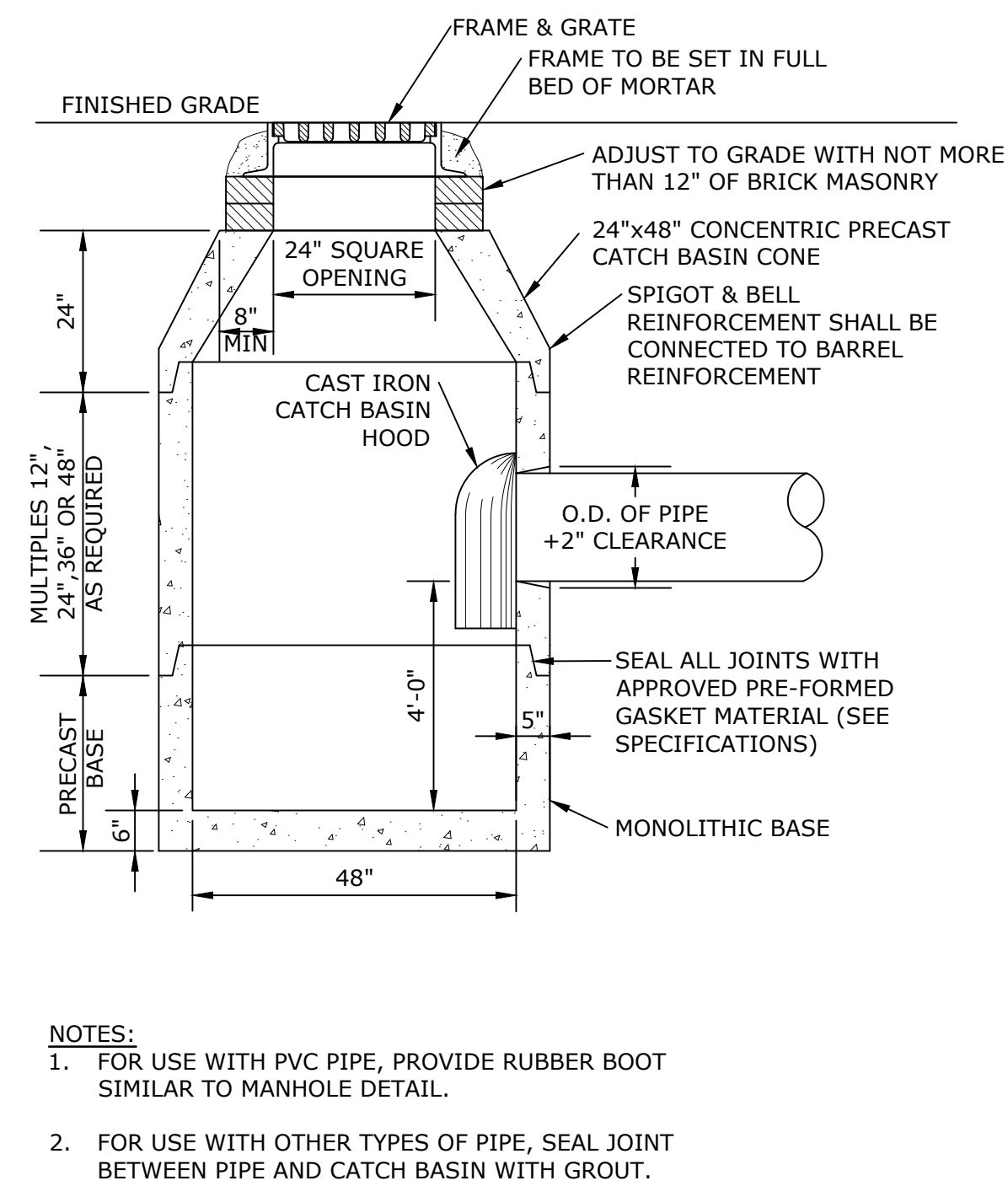
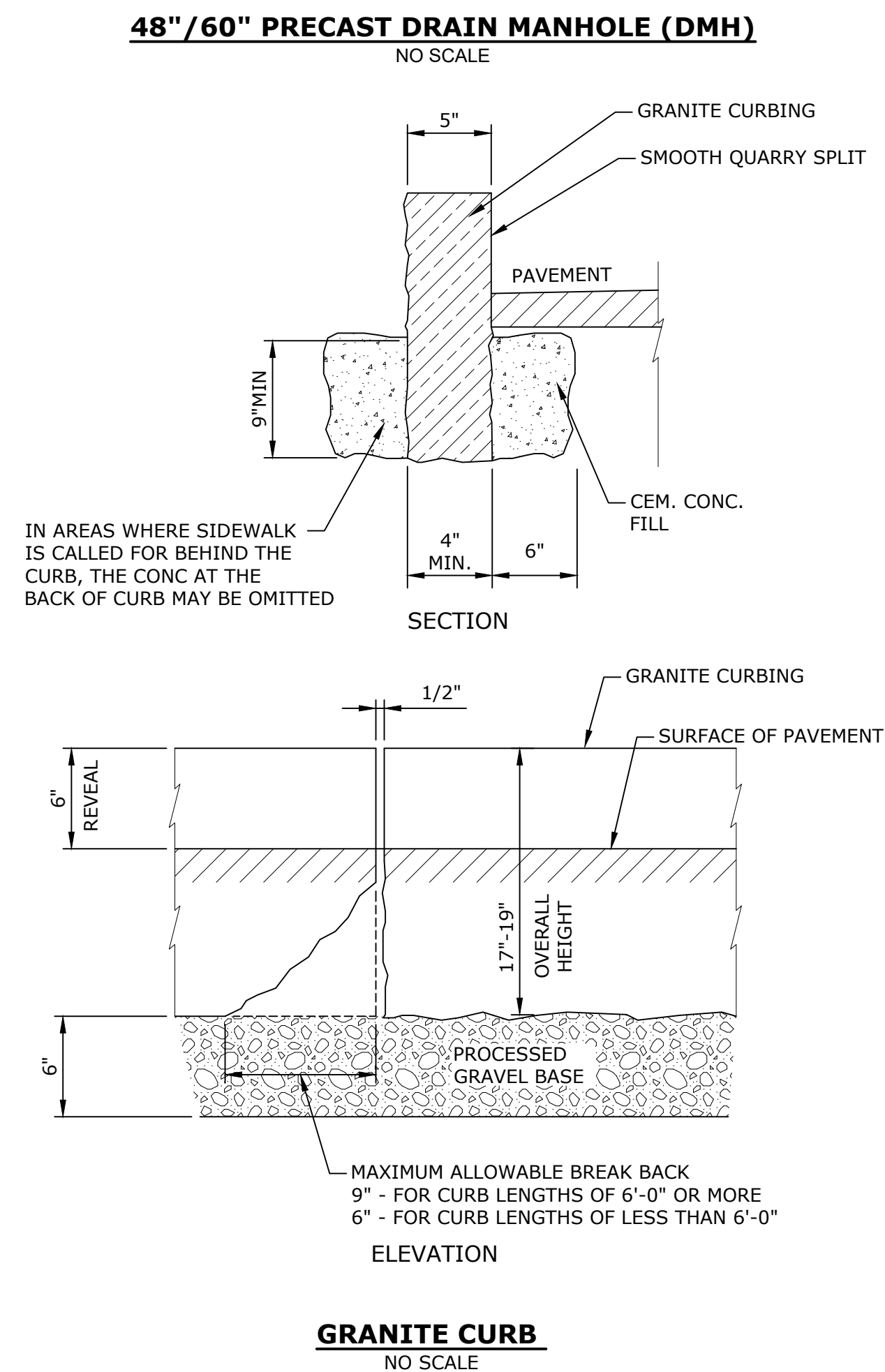
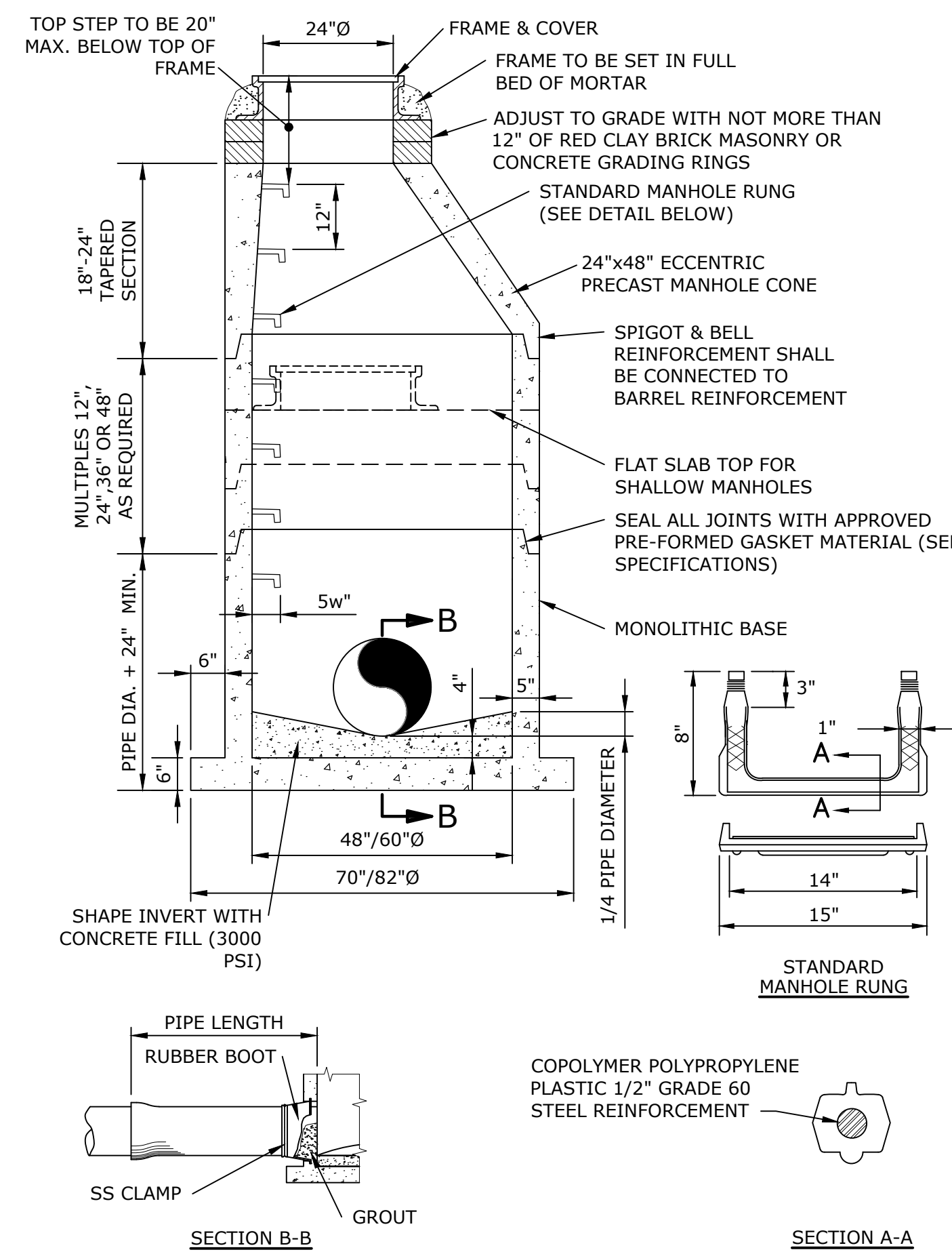
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DATE:		9/5/24
FILE:		B0633-008-C-90% Site Plans.dwg
DRAWN BY:		TJG/SO
DESIGNED/CHECKED BY:		TJG/DJB
APPROVED BY:		BSH

SITE DETAILS - 1

SCALE: AS SHOWN

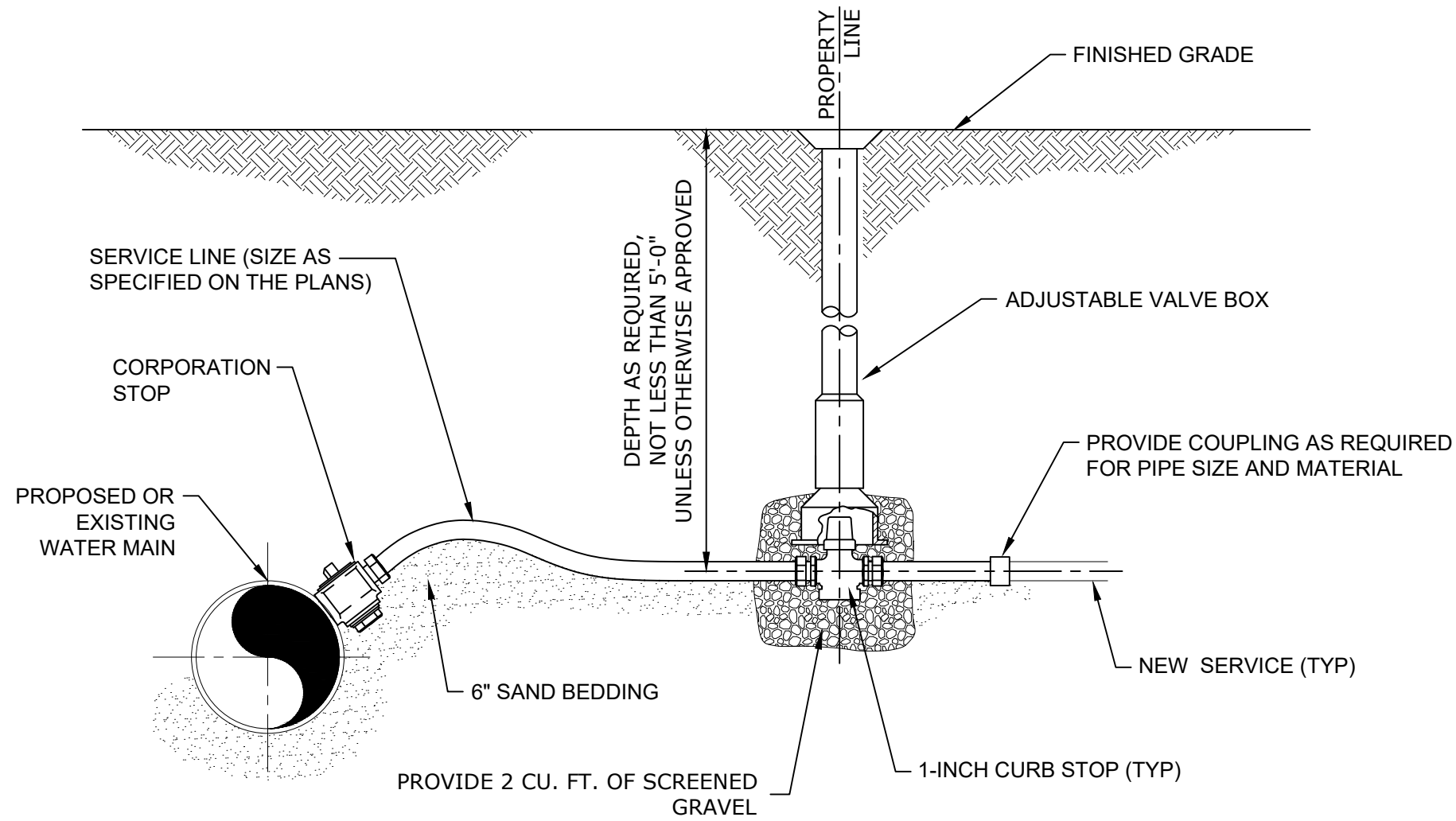
C-601

C-602

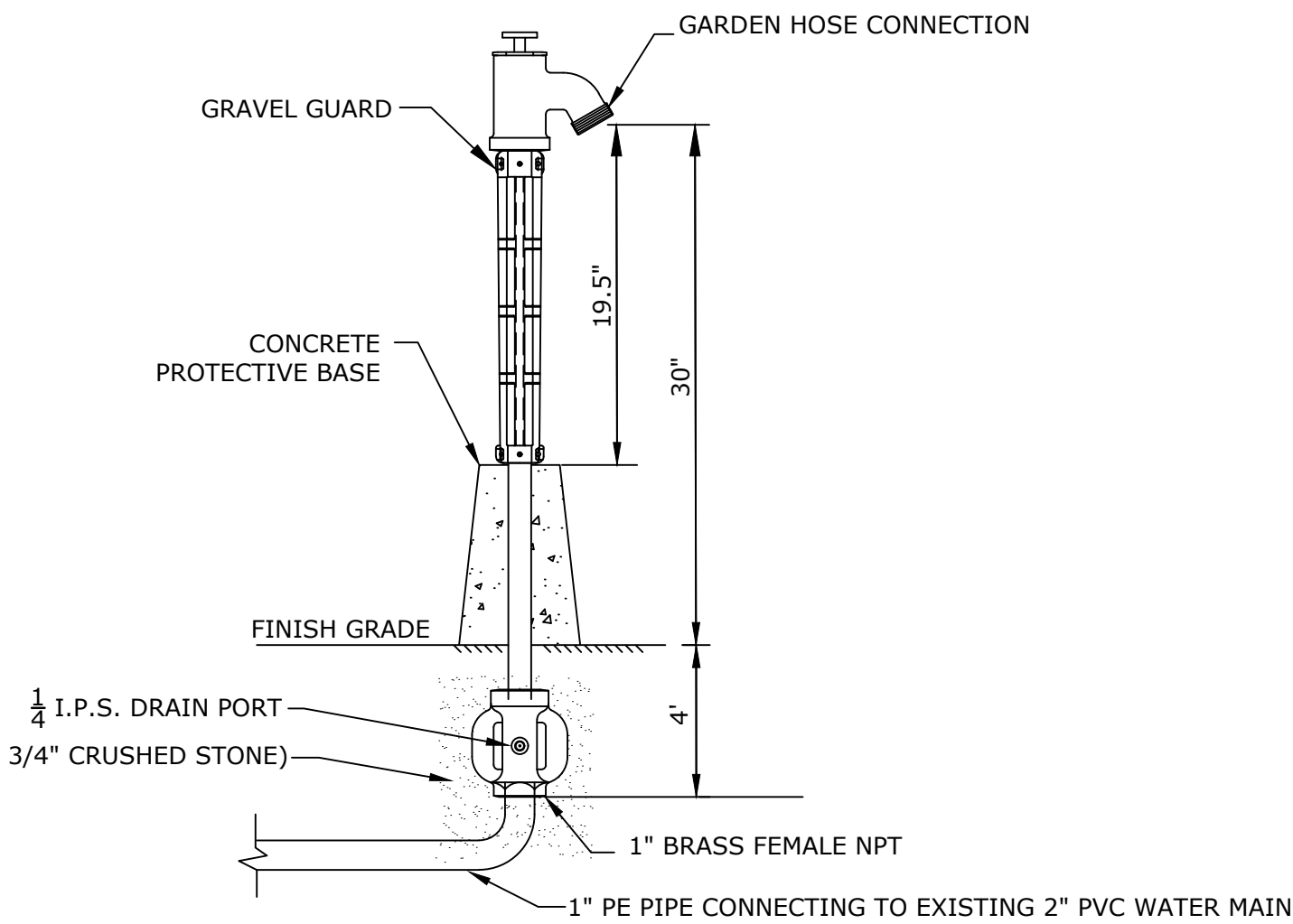


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DATE: 9/5/24		
FILE: B0633-008-C-90% Site Plans.dwg		
DRAWN BY: TJJG/SO		
DESIGNED/CHECKED BY: TJJG/DJB		
APPROVED BY: BSH		

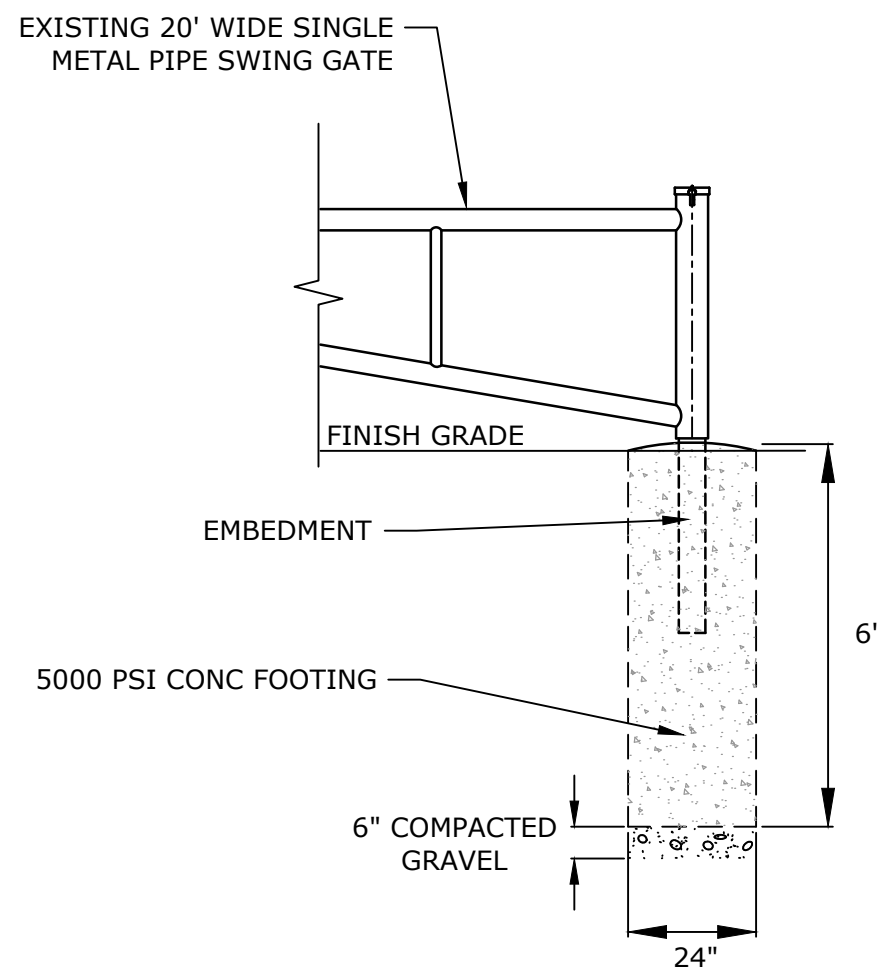
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Figure: B0633-008-C-90% Site Plans.dwg



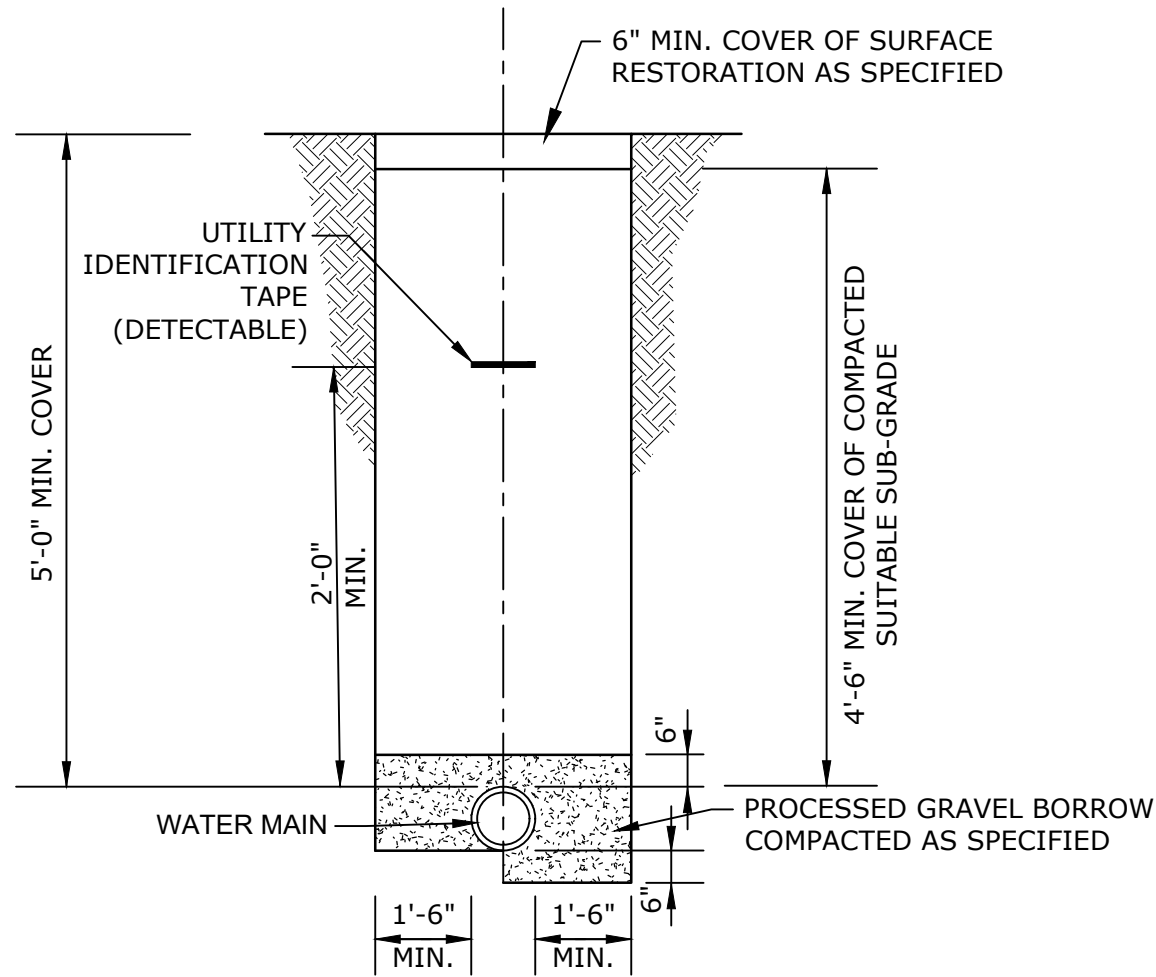
WATER SERVICE CONNECTION
NO SCALE



YARD HYDRANT
NO SCALE

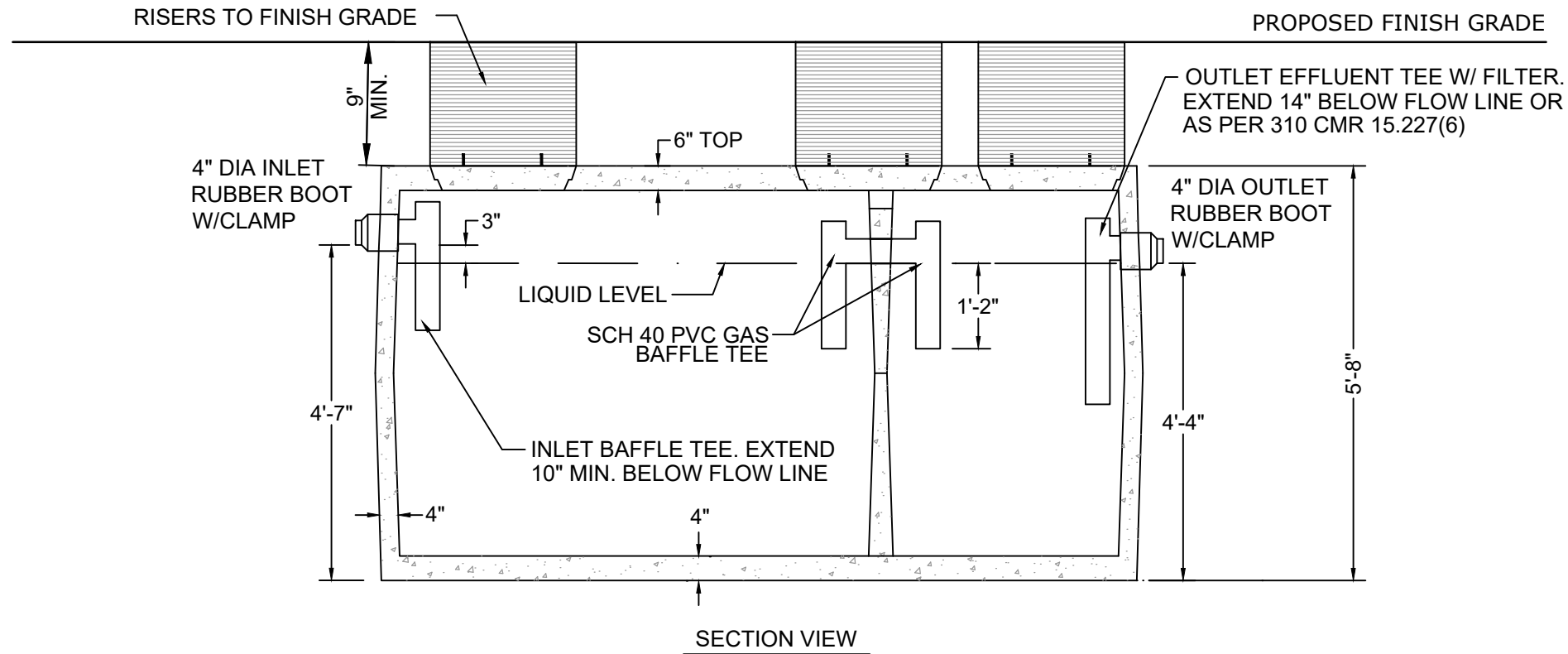
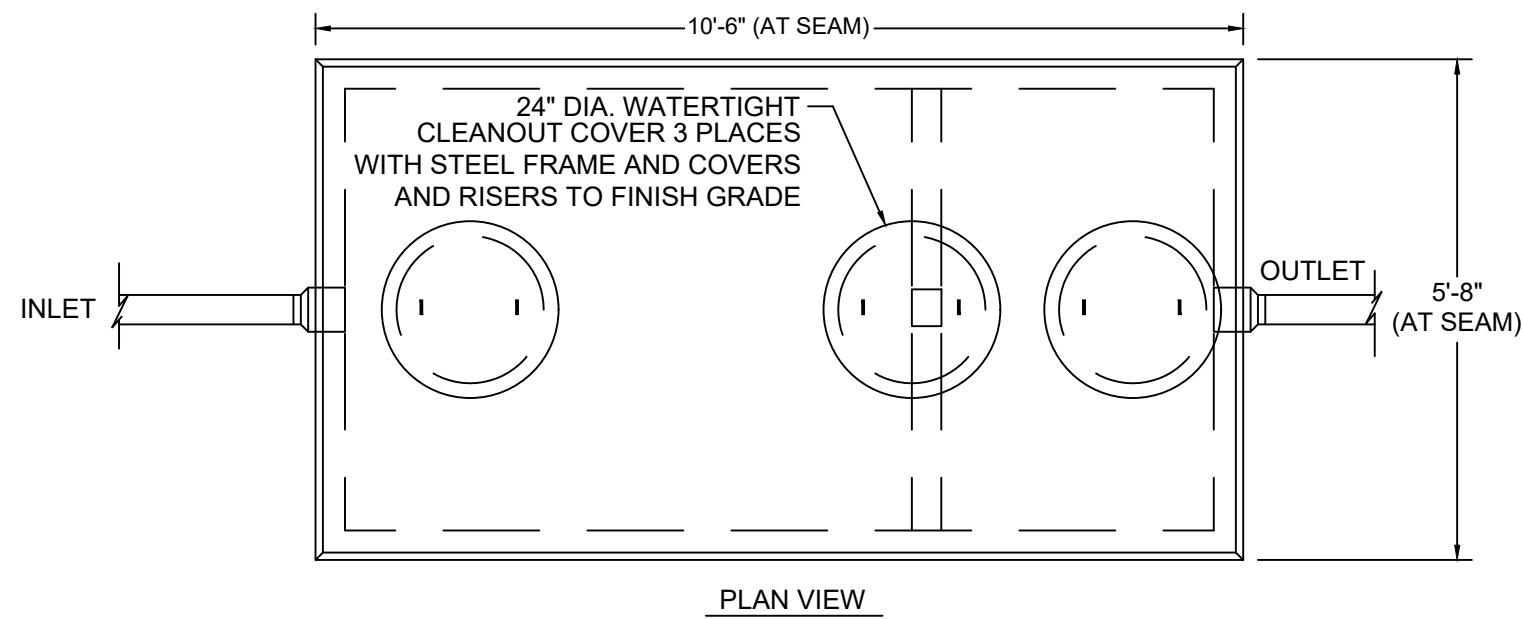


SWING GATE POSTS
NO SCALE



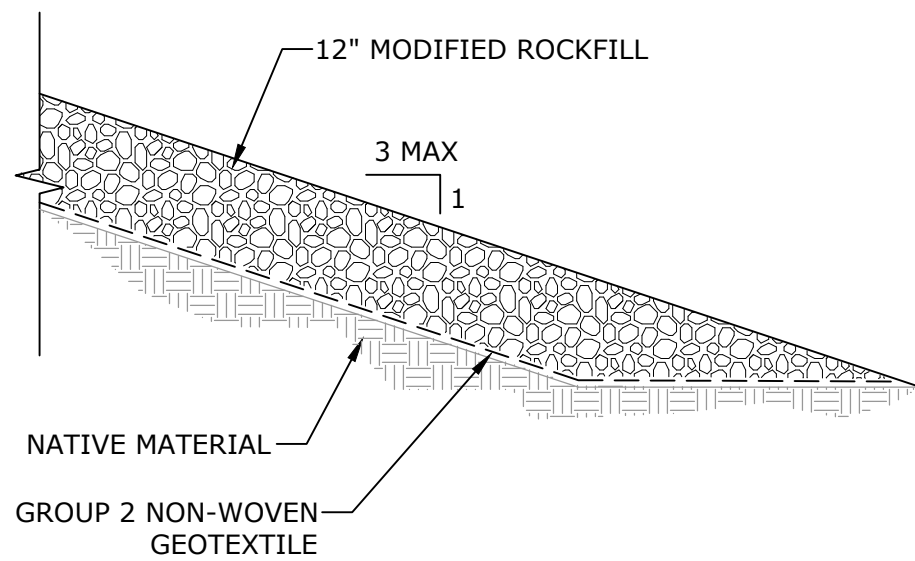
NOTE:
ALL WATER MAIN INSTALLATIONS WILL MEET THE
MINIMUM REQUIRED SETBACK DISTANCES FROM
OTHER UTILITIES AND STRUCTURES.

TYPICAL WATER MAIN TRENCH
NO SCALE

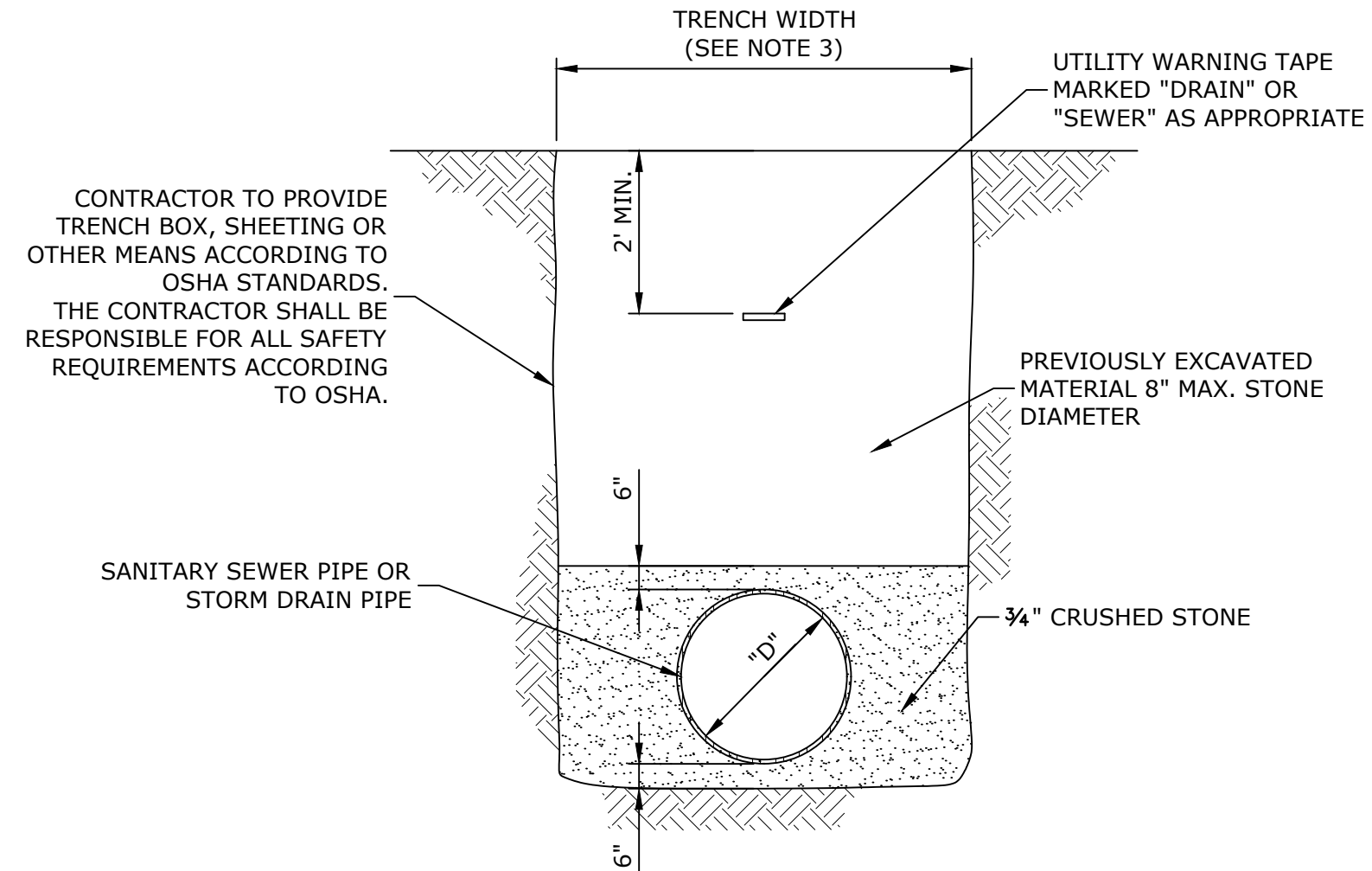


- NOTES:
1. CONCRETE: 4,000 PSI MINIMUM AFTER 28 DAYS.
 2. CONSTRUCTION OF SEPTIC TANK AND TEES TO CONFORM WITH 310 CMR. 15.000
 3. ALL REINFORCEMENT PER ASTM C1227.
 4. PROVIDE 6" MINIMUM OF COMPACTED, LEVEL GRAVEL BASE UNDER THE TANK.

1500 GALLON TWO-COMPARTMENT SEPTIC TANK
NO SCALE

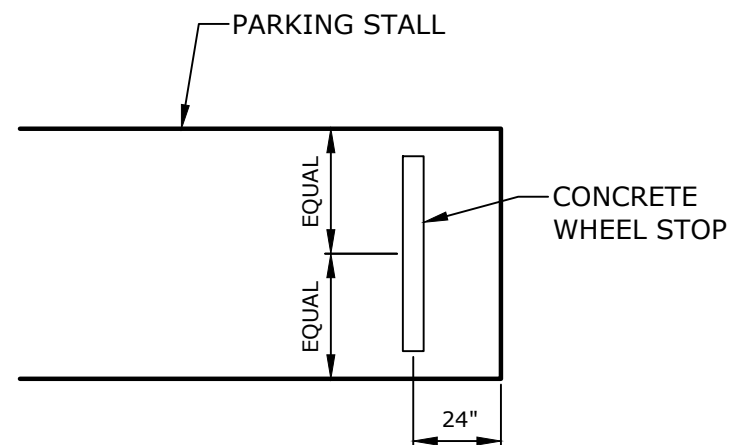


STONE DRAINAGE PAD
NO SCALE

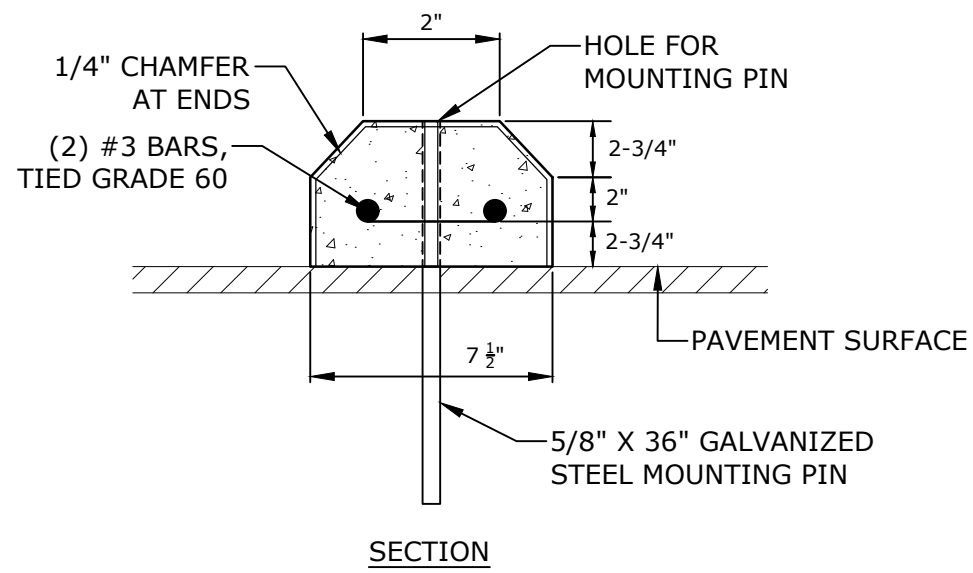


- NOTES:
1. COMPACT ALL BACKFILL MATERIAL WITH VIBRATORY PLATE EQUIPMENT (MINIMUM TWO PASSES) TO A MINIMUM DENSITY OF 95 PERCENT OF THE STANDARD PROCTOR DENSITY AS DETERMINED BY ASTM D698.
 2. PLACE BACKFILL MATERIAL IN MAXIMUM ONE FOOT LIFTS.
 3. FOR PIPES LESS THAN 24" IN DIAMETER THE TRENCH WIDTH SHALL BE 5.0'. FOR PIPES 24" IN DIAMETER AND GREATER, TRENCH WIDTH SHALL BE THE PIPE DIAMETER + 3.0'

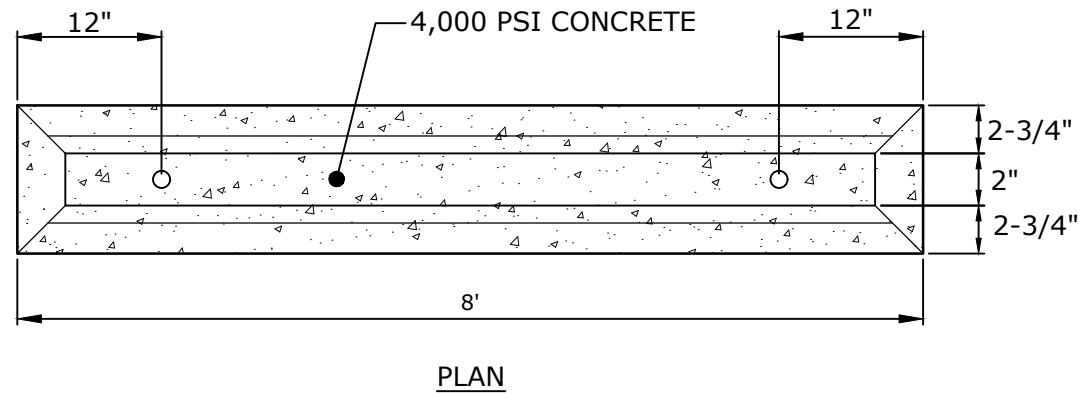
TYPICAL DRAIN OR SEWER LINE AND TRENCH SECTION
NO SCALE



PLACEMENT OF WHEEL STOP



SECTION

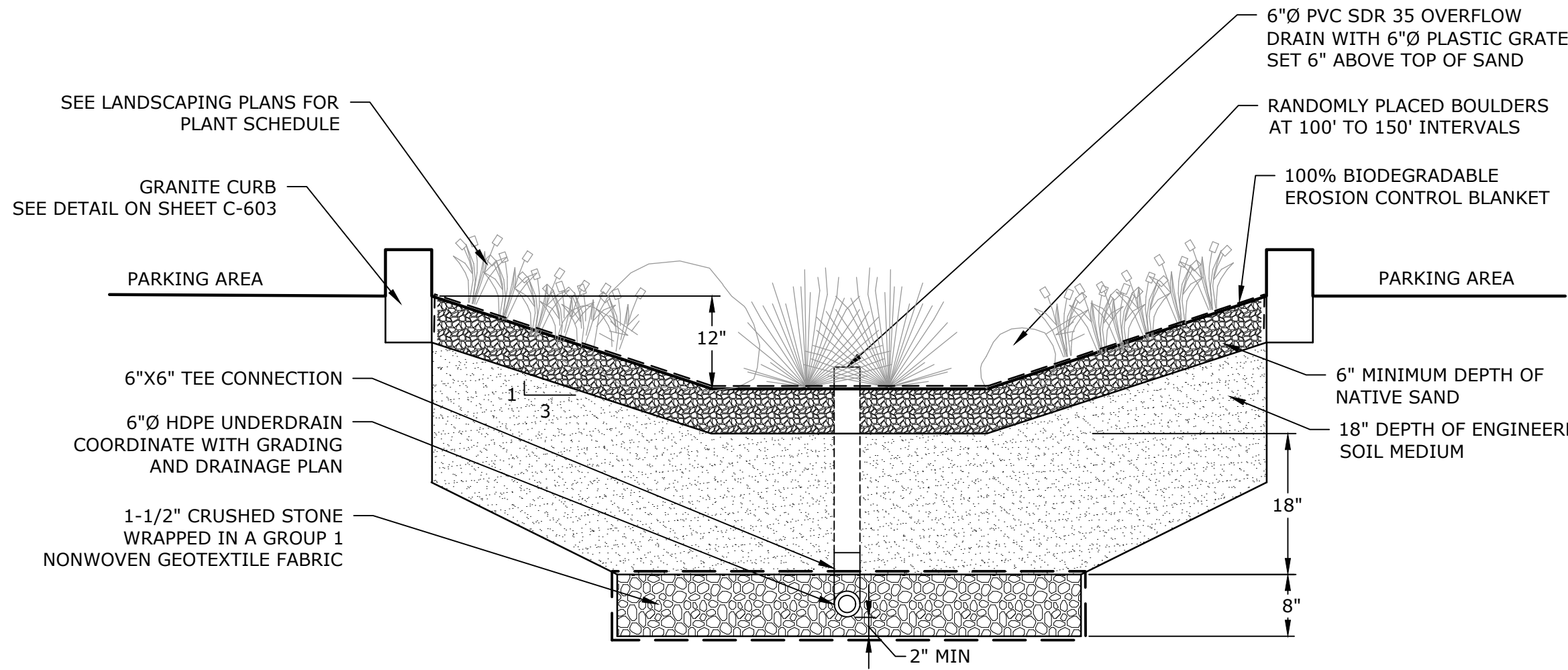


PLAN

CONCRETE WHEELSTOP
NO SCALE

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MARK	DATE	DESCRIPTION
PROJECT NO: B0633-008		
DATE: 9/5/24		
FILE: B0633-008-C-90% Site Plans.dwg		
DRAWN BY: TJG/SO		
DESIGNED/CHECKED BY: TJG/DJB		
APPROVED BY: BSH		

Last Saved: 3/27/2025 1:06:00 PM
Project: Sandy Neck Beach Facility Reconfiguration Drawings
Figure: AutocAD Sheet: B0633-008-C-90% Site Plans.dwg
Title & Content: Sandy Neck Beach Facility Reconfiguration Drawings
Figure: AutocAD Sheet: B0633-008-C-90% Site Plans.dwg

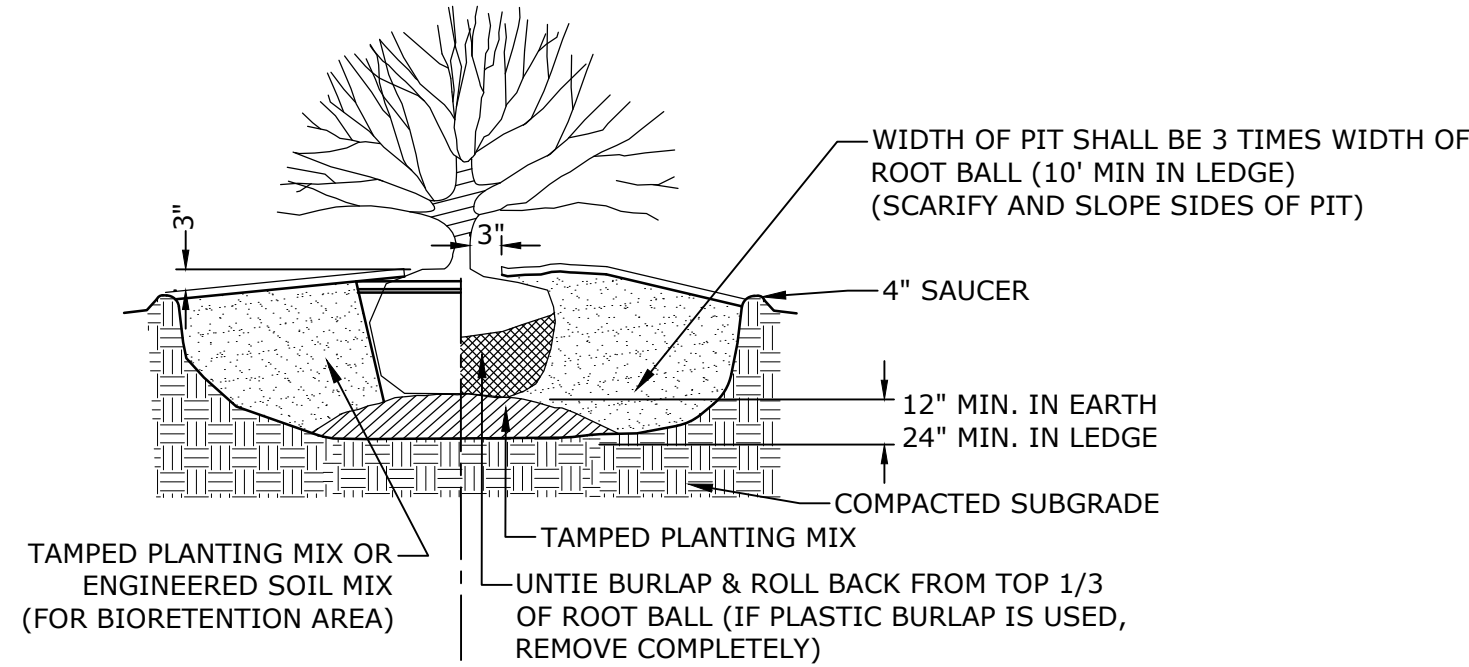


NOTES:

1. INSTALL SWALE AFTER SITE IS STABILIZED TO PREVENT SEDIMENT FROM CLOGGING RAIN GARDEN. SAND AND SOIL MEDIUM
2. MATERIAL SHOULD ALLOW AN INFILTRATION RATE OF 2 INCHES PER HOUR.
3. INSTALL 6" DIA. PVC SDR 35 CLEANOUT AT BEGINNING OF UNDERDRAIN AND AT 200' INTERBALS ALONG UNDERDRAIN PIPING. CONNECT 6" DIA. CLEANOUTS TO UNDERDRAIN PIPING WITH SWEEP WYE FITTINGS. EXTEND TOP OF CLEANOUTS TO 6" ABOVE TOP OF SAND AND INSTALL REMOVABLE THREADED CAP FOR ACCESS.
4. EROSION CONTROL BLANKETS SHALL BE 100% BIODEGRADABLE WITH BIODEGRADABLE STAPLES PLACED NO MORE THAN 3 FT APART VERTICALLY AND 1 FT APART HORIZONTALLY.
5. EROSION CONTROL BLANKETS SHALL BE ROLLED OUT AND STAPLED TO MAINTAIN DIRECT SOIL CONTACT. DO NOT STRETCH THE BLANKETS.

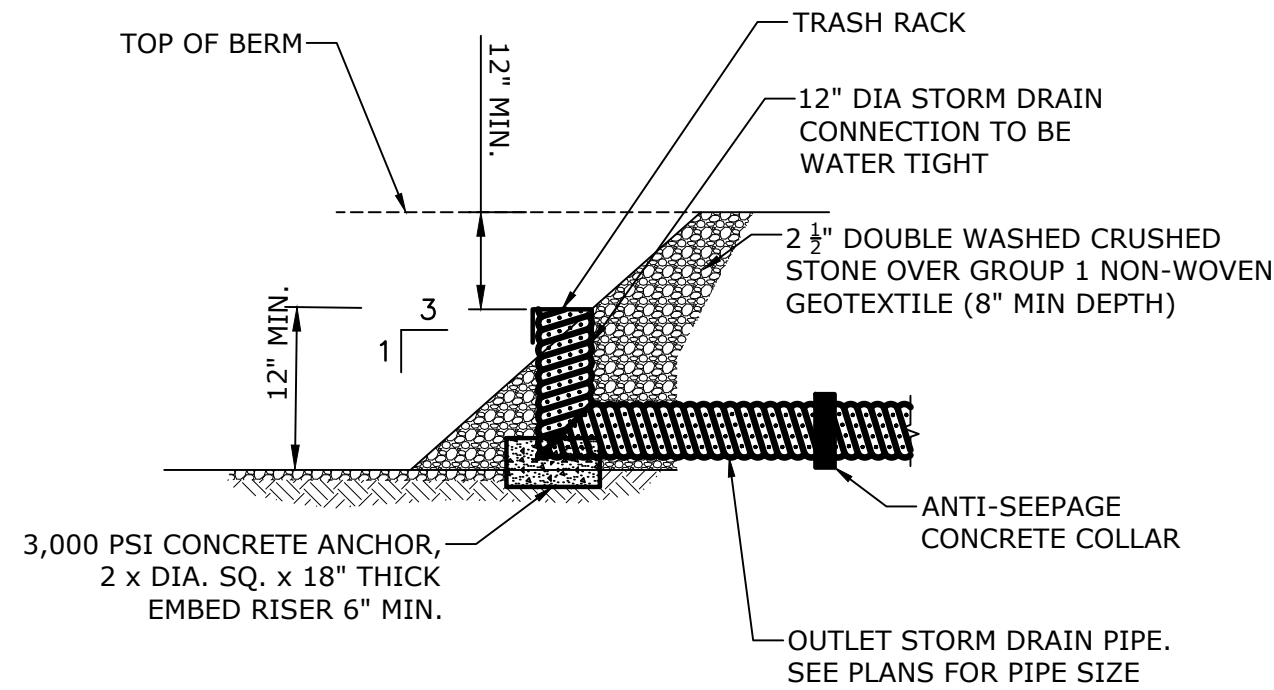
VEGETATED SWALE - TYPICAL SECTION

3/4" = 1'-0"



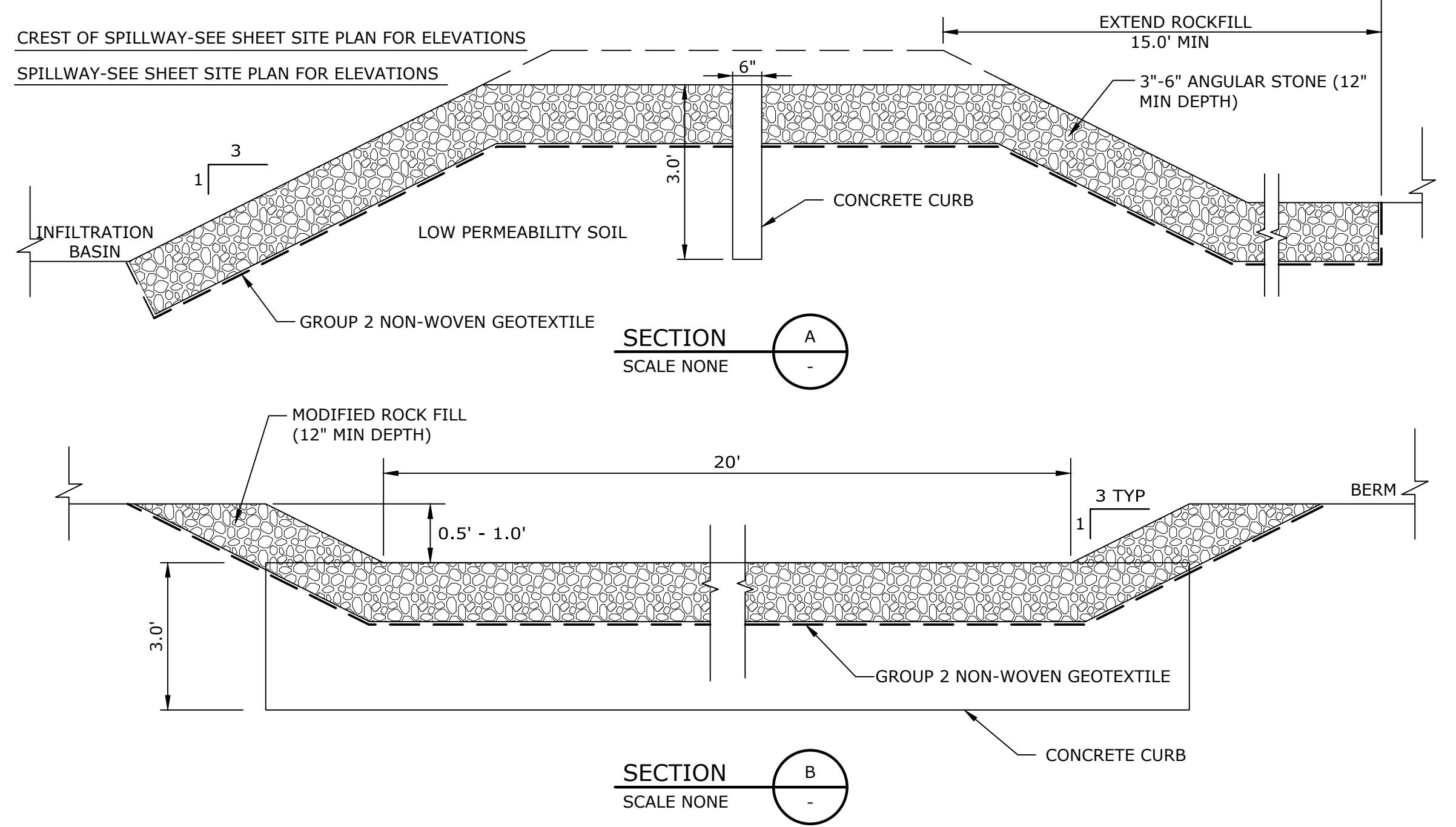
SHRUB & GRASS PLANTING - TYPICAL SECTION

NO SCALE



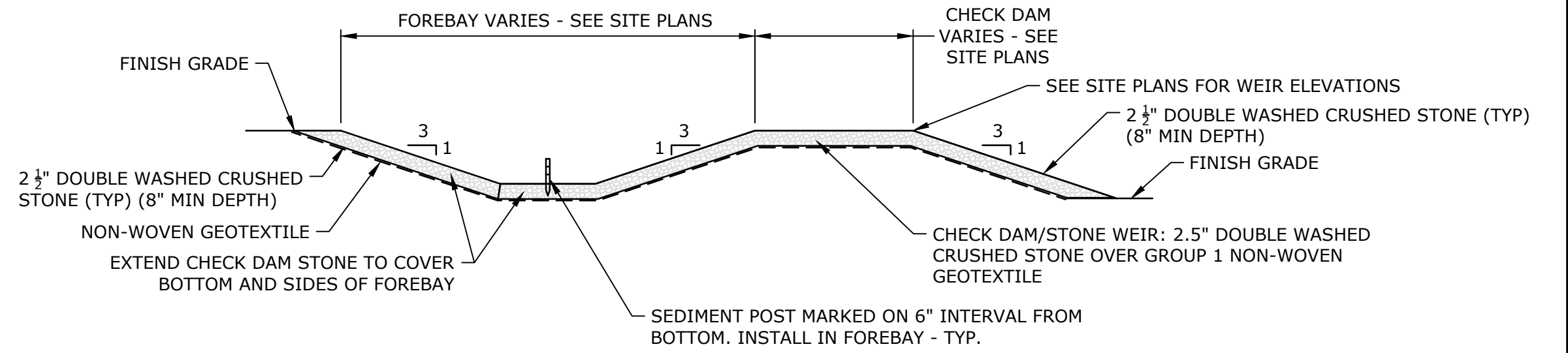
RISER OUTLET

NO SCALE



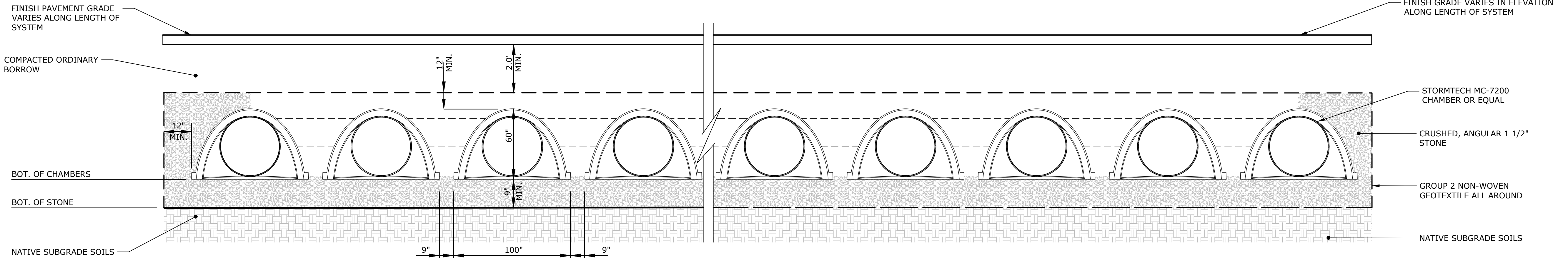
EMERGENCY SPILLWAY

NO SCALE



SEDIMENT FOREBAY - SECTION

NO SCALE



STORMWATER INFILTRATION SYSTEM - TYPICAL SECTION

NO SCALE

Tighe&Bond

Sandy Neck Beach Facility Reconfiguration

Town of Barnstable

Barnstable, MA

0	4/1/2025	BID SET
MARK	DATE	DESCRIPTION
PROJECT NO: B0633-008		
DATE: 9/5/24		
FILE: B0633-008-C-90% Site Plans.dwg		
DRAWN BY: TJG/SO		
DESIGNED/CHECKED BY: TJG/DJB		
APPROVED BY: BSH		

SITE DETAILS - 5

SCALE: AS SHOWN

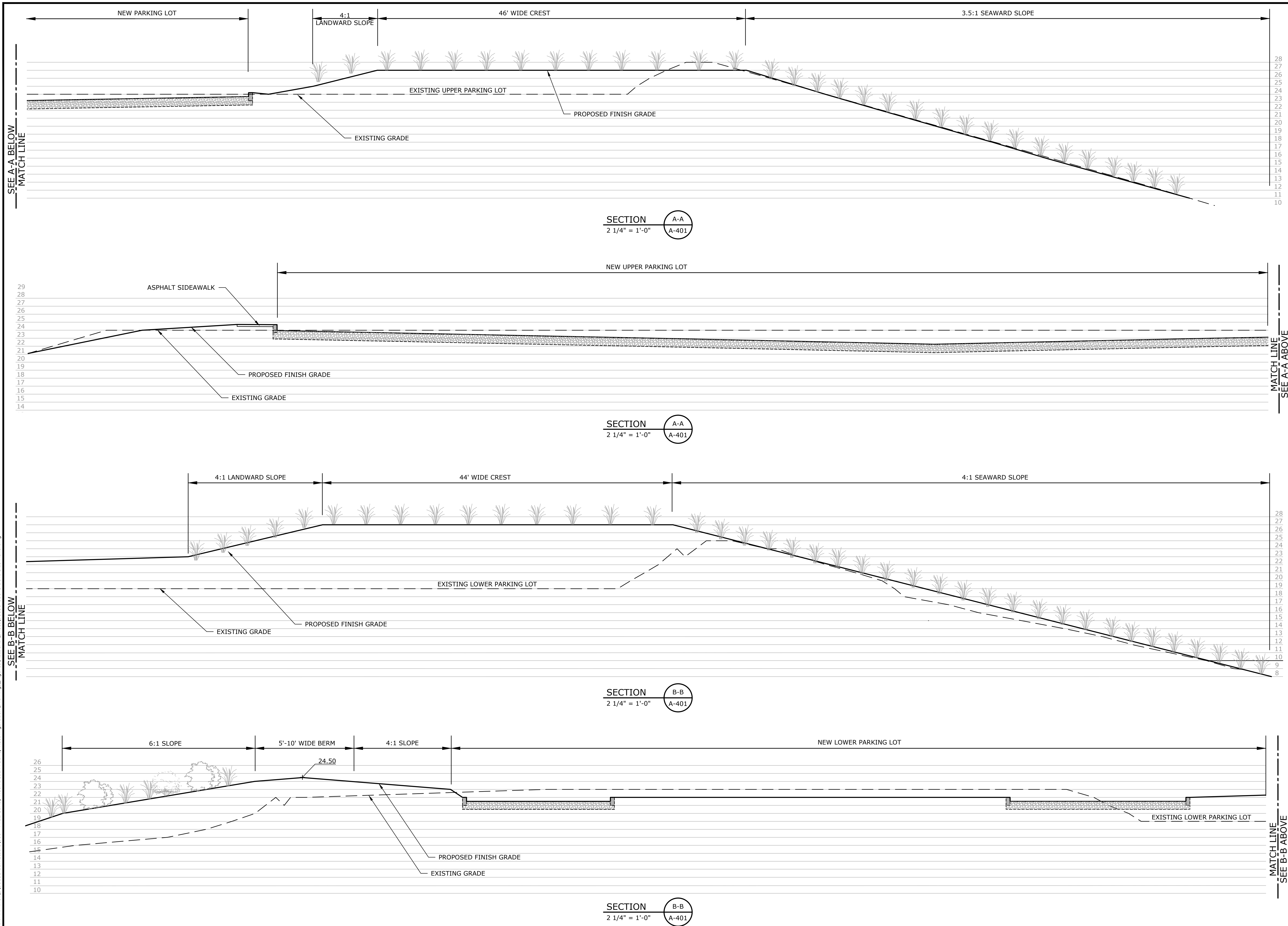
C-605

Barnstable, MA

0	4/1/2025	BID SET
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DRAWN BY: TJG/SO		
DESIGNED/CHECKED BY: TJG/DJB		
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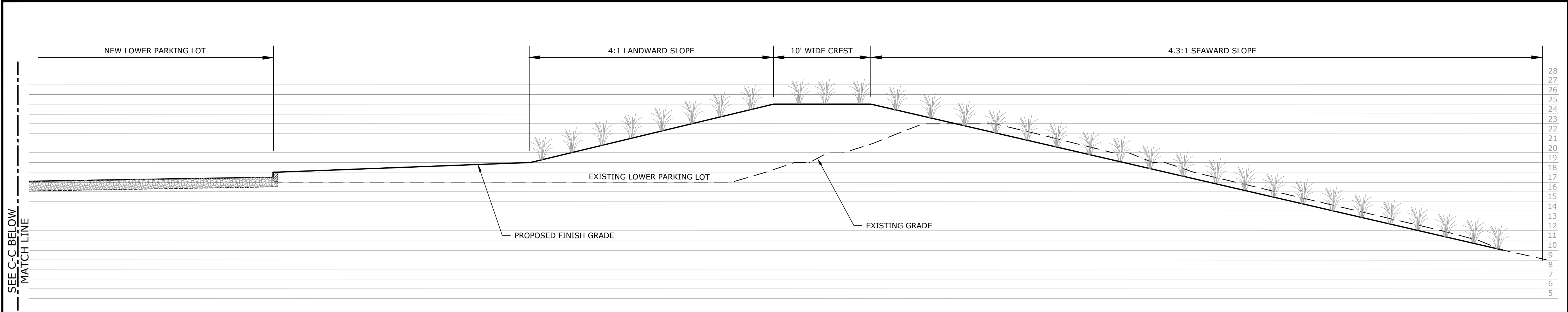
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C-606

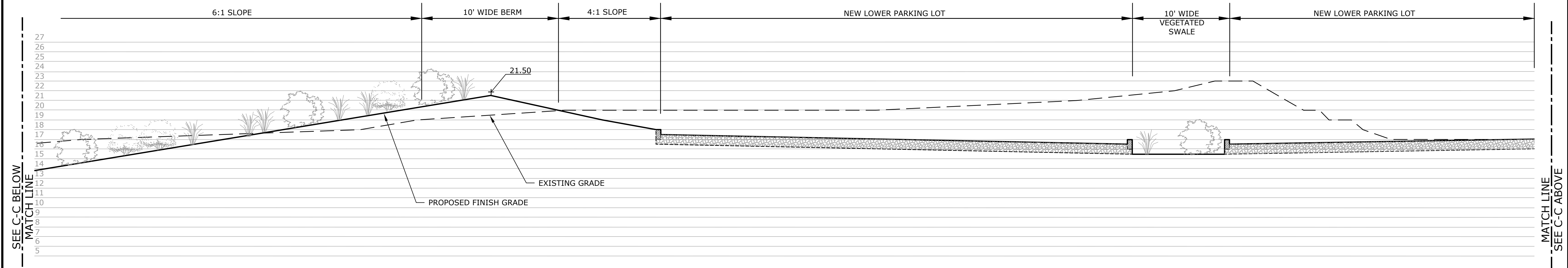


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Plotted On: Mar 27, 2025-12:01pm By: APaoili
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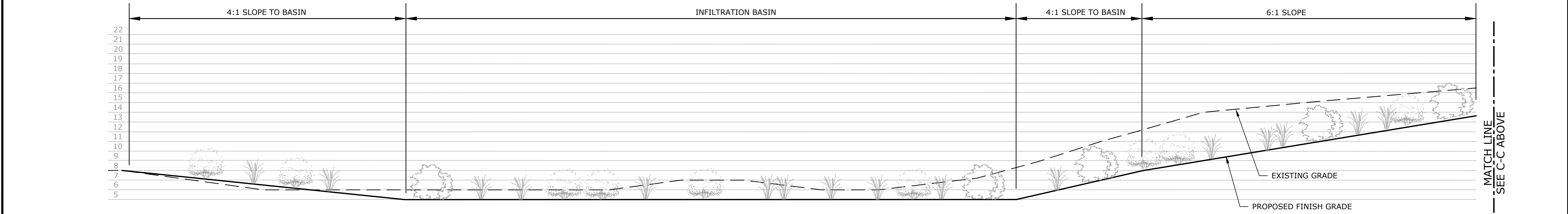
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Title: Sandy Neck Beach Facility Reconfiguration Drawings
Tighe & Bond
1722 Sandy Neck Beach Facility Reconfiguration Drawings
B0633-008-C-90% Site Plans.dwg



SECTION C-C
2 1/4" = 1'-0"



SECTION C-C
2 1/4" = 1'-0"



SECTION C-C
2 1/4" = 1'-0"

Tighe&Bond

Sandy Neck Beach Facility Reconfiguration

Town of Barnstable

Barnstable, MA

MARK	DATE	DESCRIPTION
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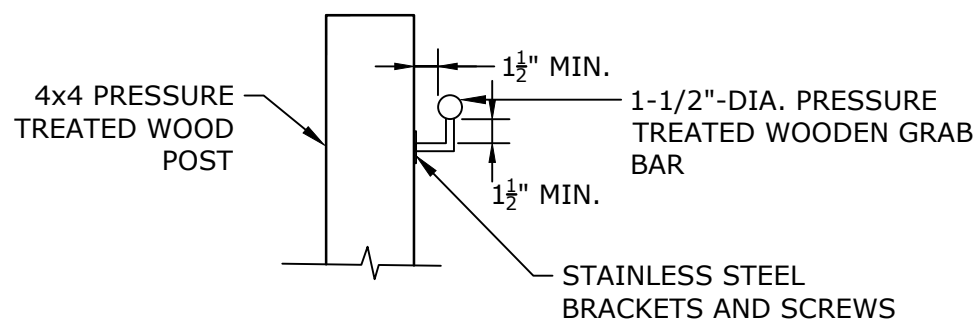
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DRAWN BY:	TJG/SO
DESIGNED/CHECKED BY:	TJG/DJB
APPROVED BY:	BSH

SITE DETAILS - 7
(SITE SECTIONS 2)

SCALE:AS SHOWN

C-607

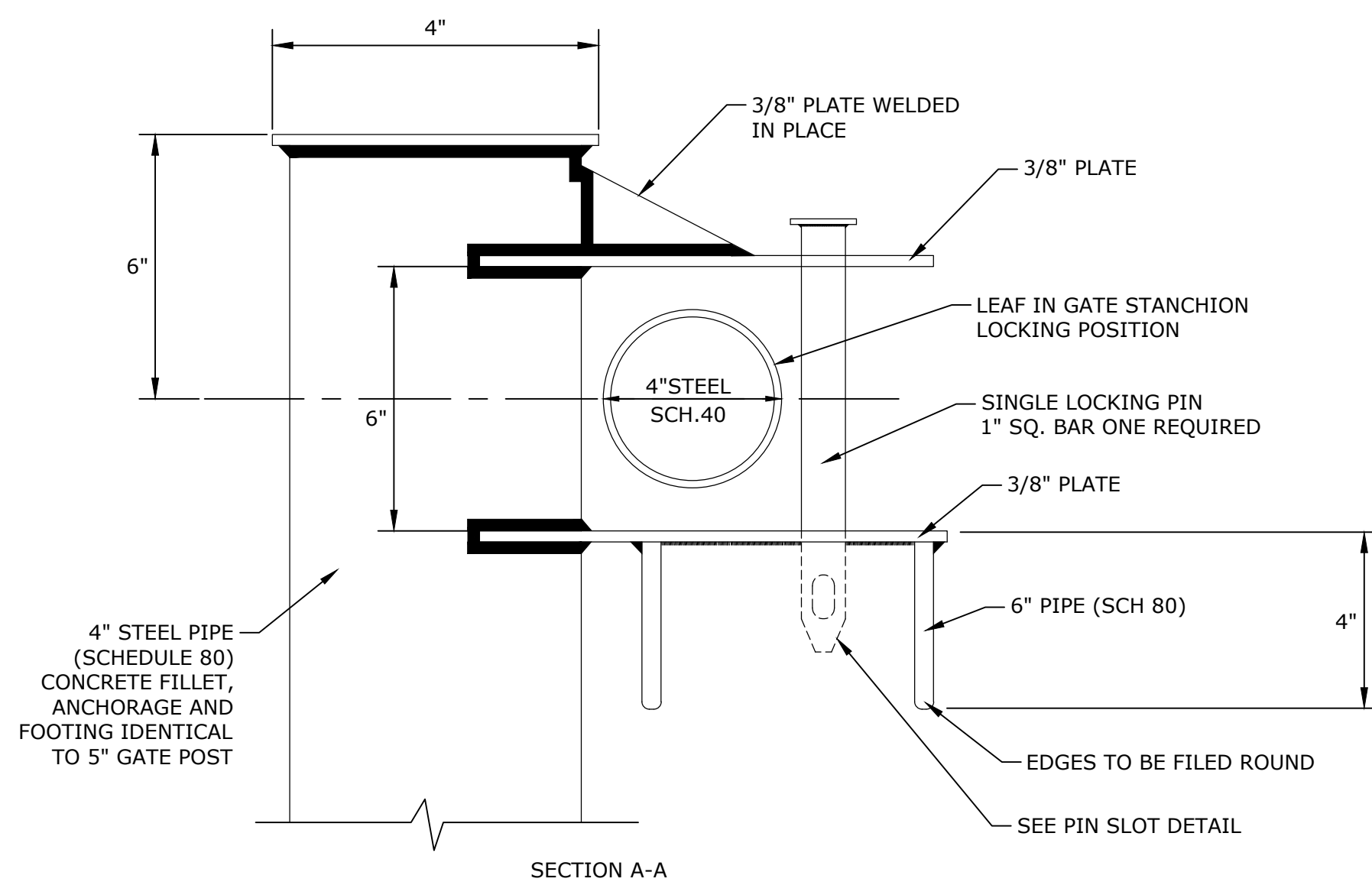
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DRAWN BY:		TJG/SO
DESIGNED/CHECKED BY:		TJG/DJB
APPROVED BY:		BSH



0	4/1/2025	BID SET
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FILE:		B0633-008-C-90% Site Plans.dwg
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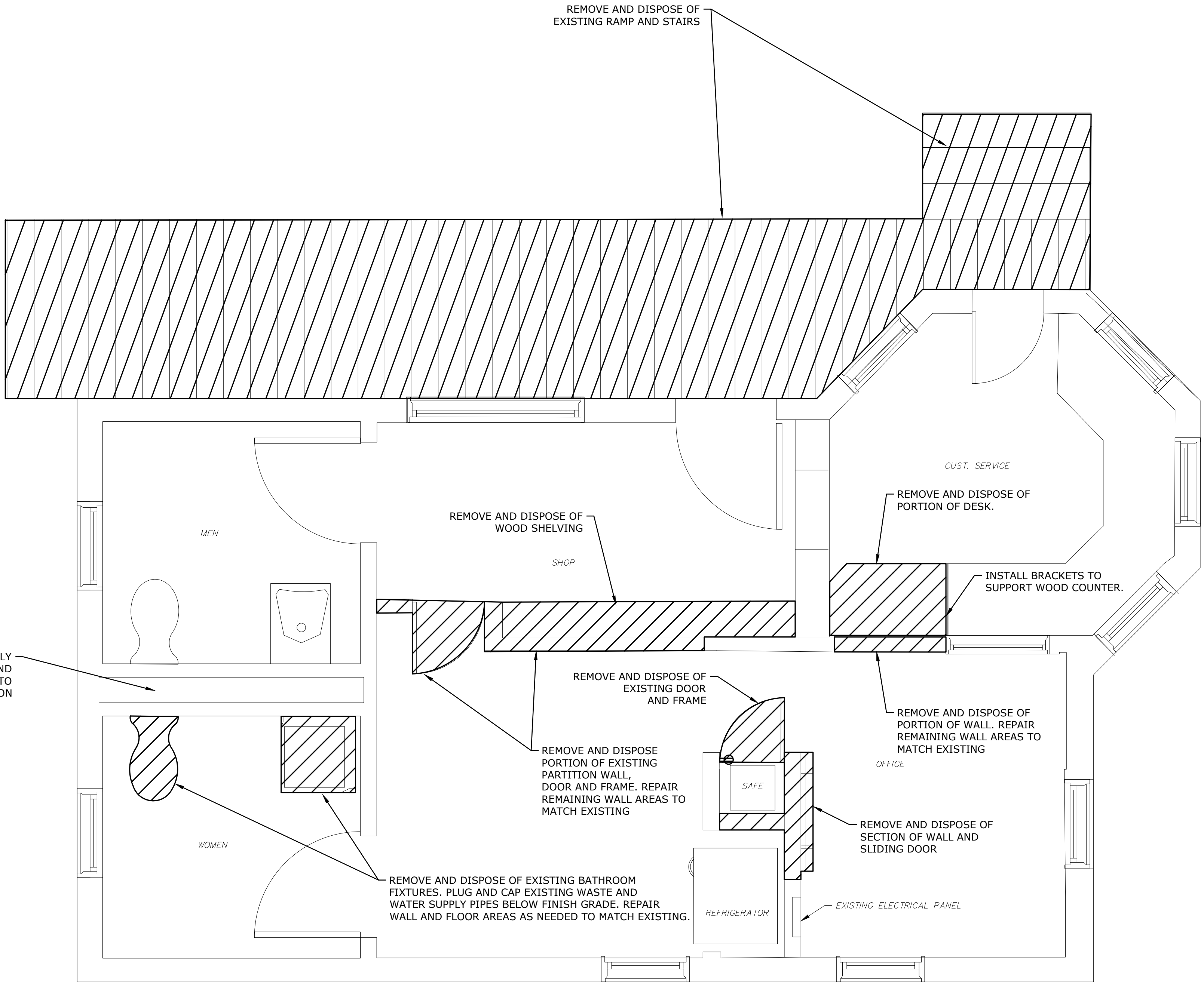


16' WIDE BAR GATE
NO SCALE



SWING GATE LOCKING POST & GATE STANCHION
NO SCALE





- BUILDING RELOCATION NOTES:**
1. CONDUCT VISUAL INSPECTION AND PHOTO LOG OF BOTH INTERIOR AND EXTERIOR CONDITIONS OF THE GATEHOUSE PRIOR TO BEGINNING OF ANY WORK RELATED TO THE RELOCATION OF THE BUILDING AND FOLLOWING THE COMPLETED RELOCATION OF THE BUILDING. PROVIDE THE INSPECTION REPORTS AND PHOTO LOGS TO THE TOWN.
 2. PROPERLY DISCONNECT ALL UTILITIES PRIOR TO MOVING THE GATEHOUSE BUILDING. ALL BUILDING UTILITIES ARE TO BE RECONNECTED FOLLOWING SECURING TO NEW BUILDING FOUNDATION.
 3. SUBMIT A RIGGING PLAN TO THE ENGINEER PRIOR TO RELOCATION OF THE BUILDING.
 4. PROTECT THE BUILDING FROM DAMAGE BY INCLEMENT WEATHER AND ENSURE NO DISTORTION OR ANY OTHER PHYSICAL DAMAGE OCCURS DURING THE RELOCATION AND CONNECTION TO THE FOUNDATION.
 5. PROVIDE STRUCTURAL DESIGN CALCULATION AND DRAWINGS FOR THE GATEHOUSE FOUNDATION PREPARED AND SEALED BY A REGISTERED PROFESSIONAL ENGINEER IN MASSACHUSETTS FOR APPROVAL PRIOR TO FOUNDATION FABRICATION.
 6. ENSURE THAT THE BUILDING HAS BEEN APPROPRIATELY FASTENED AND SEALED TO NEW CONCRETE FOUNDATION.
 7. ENSURE THAT ALL UTILITY SERVICES ARE CONNECTED AND FUNCTIONING PROPERLY.
 8. THE CONTRACTOR IS RESPONSIBLE FOR REPAIRING ANY INTERIOR OR EXTERIOR DAMAGE RESULTING FROM RELOCATING BUILDING AND ATTACHING TO THE FOUNDATION.
 9. THE CONTRACTOR SHALL BE RESPONSIBLE FOR OBTAINING AND PAYING FOR ALL APPLICABLE PERMITS AND INSPECTIONS FOR THE BUILDING AND UTILITY INSTALLATION.

**Sandy Neck
Beach Facility
Reconfiguration**

Town of
Barnstable

Barnstable, MA

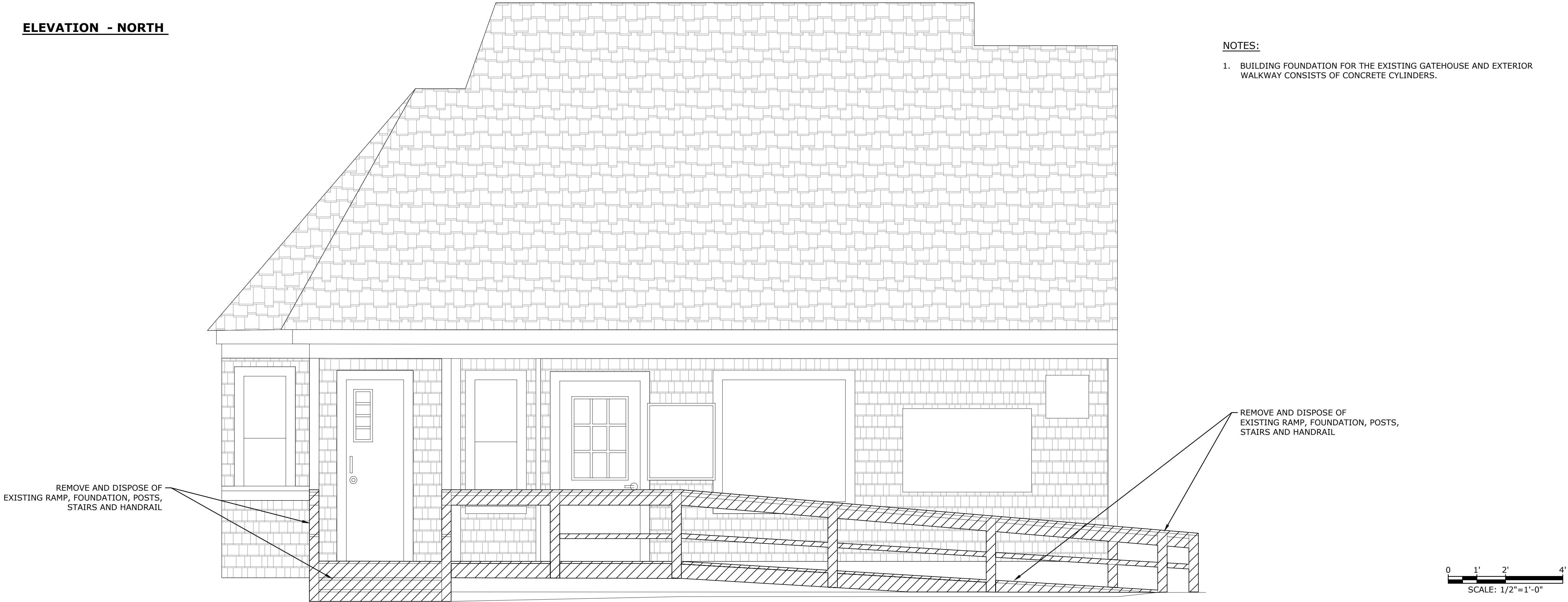
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FILE:		B0633-008-A- Gatehouse Floor Plans.dwg
DRAWN BY:		SO
DESIGNED/CHECKED BY:		TJG/DJB
APPROVED BY:		BSH

GATEHOUSE EXISTING AND
DEMOLITION FLOOR PLAN

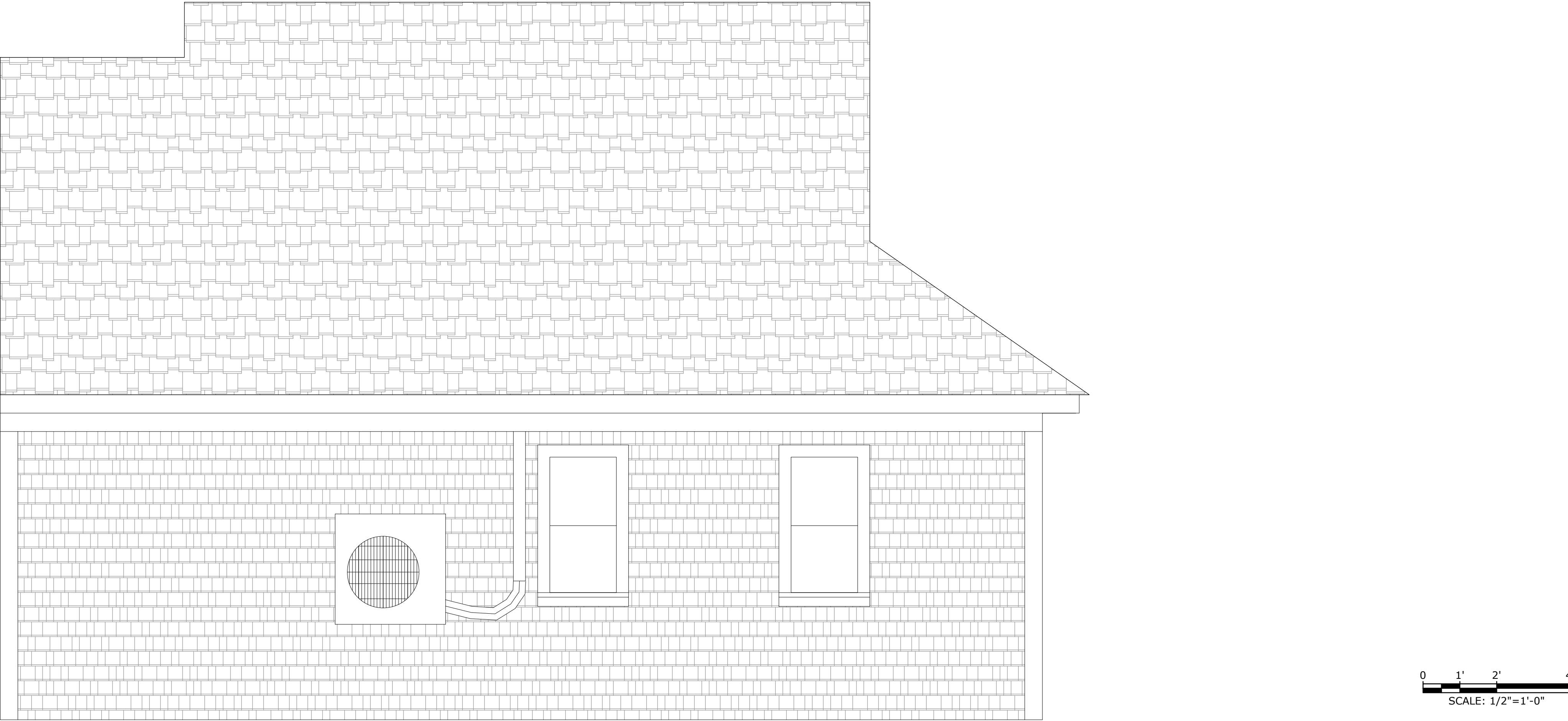
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AD-101

ELEVATION - NORTH



ELEVATION - SOUTH



Sandy Neck Beach Facility Reconfiguration

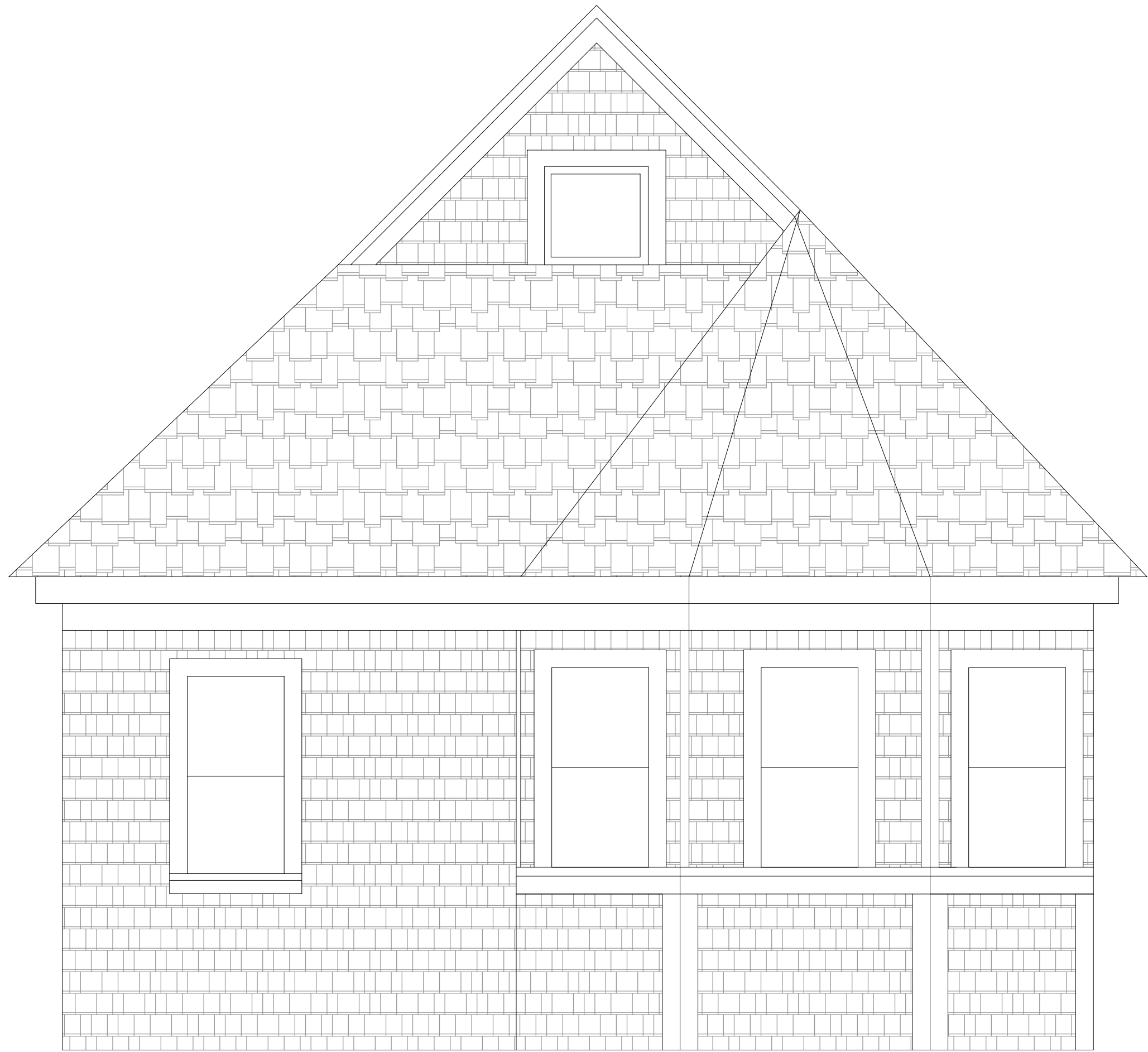
Town of Barnstable

Barnstable, MA

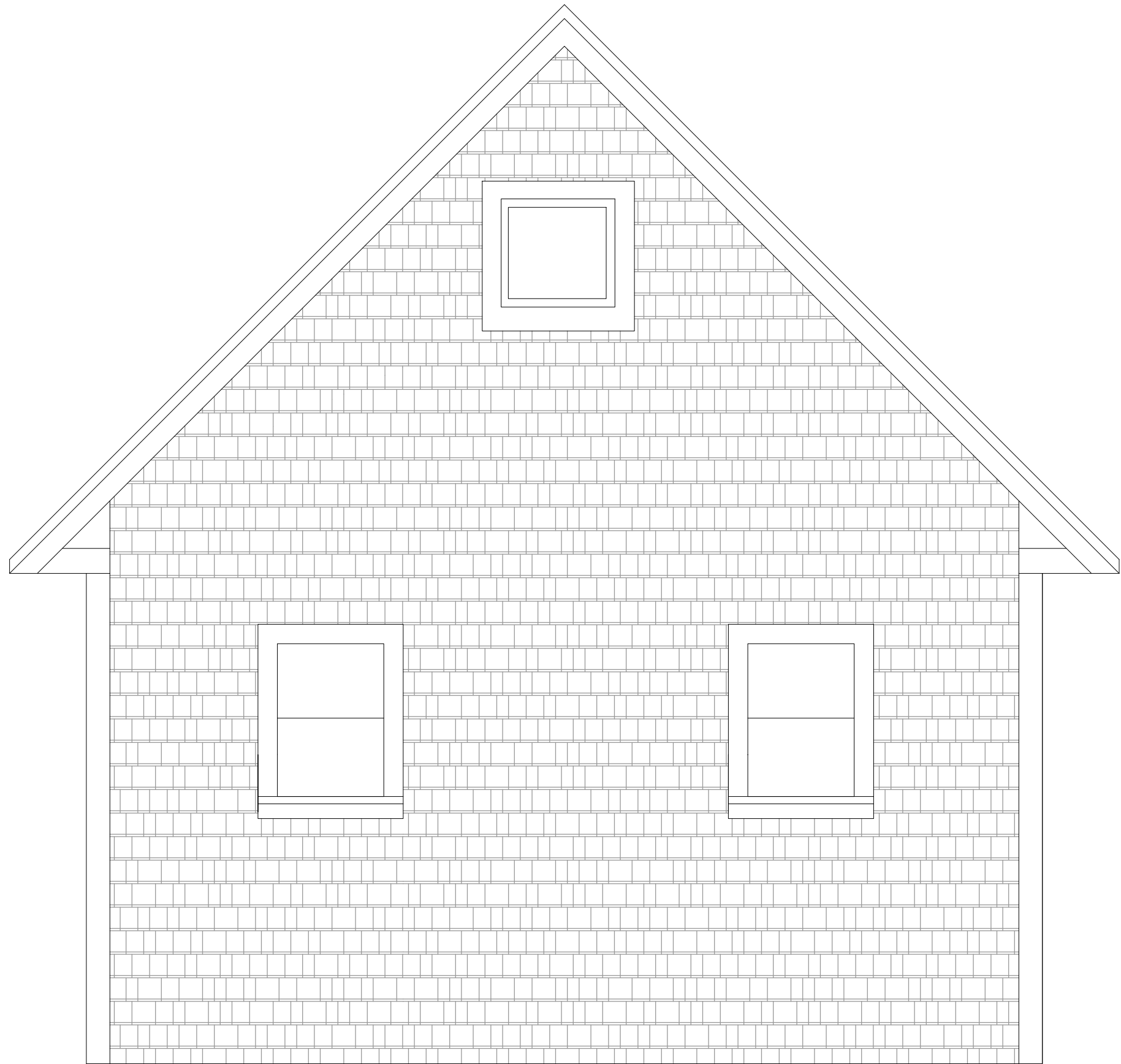
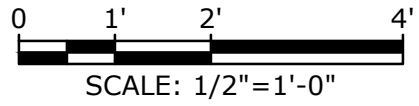
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DRAWN BY: SO		
DESIGNED/CHECKED BY: TJG/DJB		
APPROVED BY: BSH		

GATEHOUSE ELEVATIONS - 1

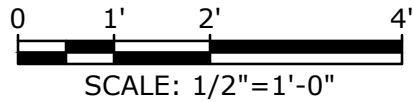
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ELEVATION - WEST



ELEVATION - EAST



Sandy Neck
Beach Facility
Reconfiguration

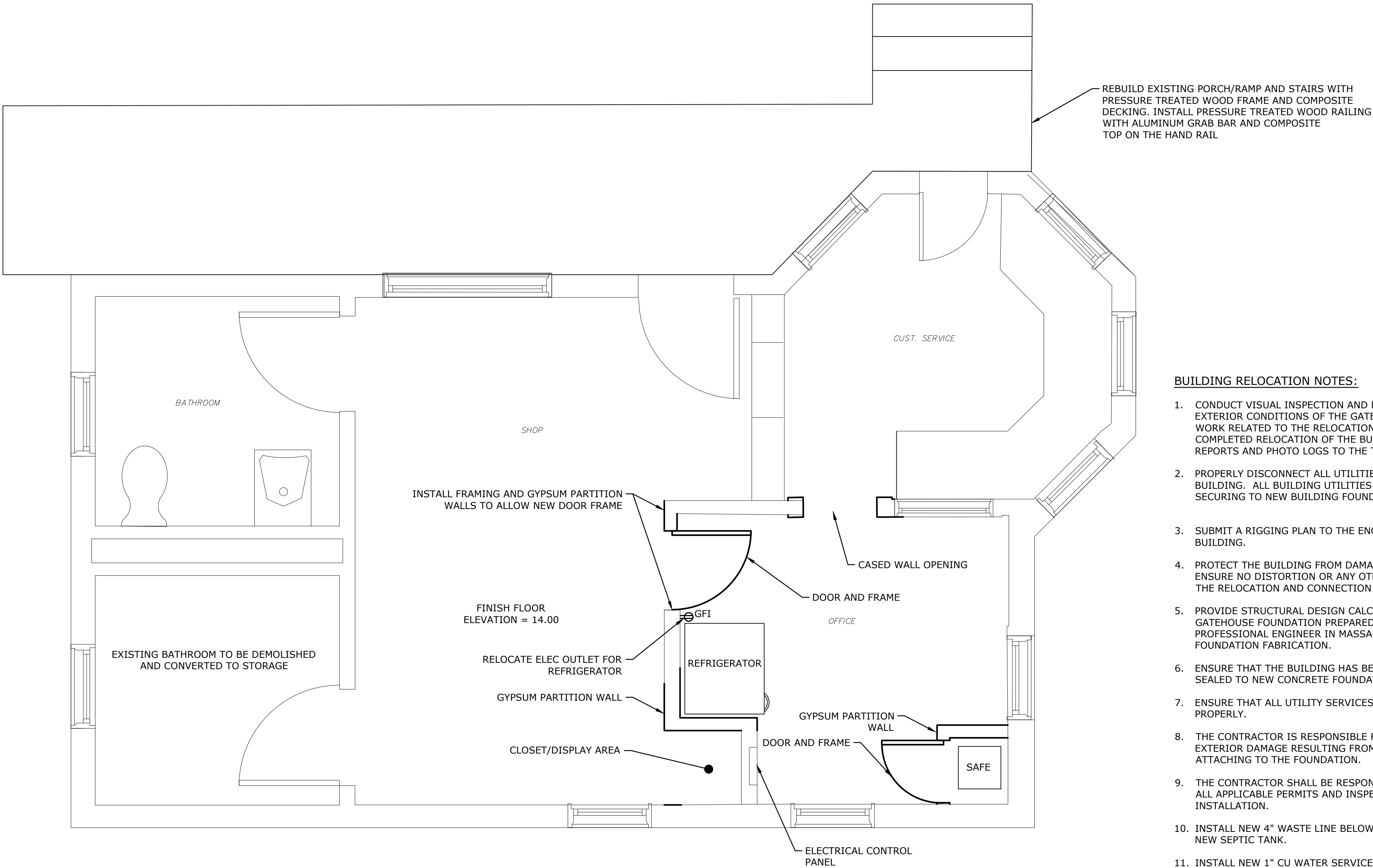
Town of
Barnstable

Barnstable, MA

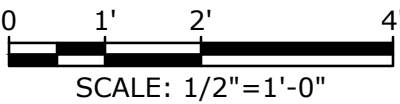
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DATE:		
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DRAWN BY:		SO
DESIGNED/CHECKED BY:		TJG/DJB
APPROVED BY:		BSH

GATEHOUSE
ELEVATIONS - 2

SCALE: 1/2" = 1'-0"



- BUILDING RELOCATION NOTES:**
1. CONDUCT VISUAL INSPECTION AND PHOTO LOG OF BOTH INTERIOR AND EXTERIOR CONDITIONS OF THE GATEHOUSE PRIOR TO BEGINNING OF ANY WORK RELATED TO THE RELOCATION OF THE BUILDING AND FOLLOWING THE COMPLETED RELOCATION OF THE BUILDING. PROVIDE THE INSPECTION REPORTS AND PHOTO LOGS TO THE TOWN.
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 9. THE CONTRACTOR SHALL BE RESPONSIBLE FOR OBTAINING AND PAYING FOR ALL APPLICABLE PERMITS AND INSPECTIONS FOR THE BUILDING AND UTILITY INSTALLATION.
 10. INSTALL NEW 4" WASTE LINE BELOW GRADE FROM BATHROOM FIXTURES TO NEW SEPTIC TANK.
 11. INSTALL NEW 1" CU WATER SERVICE LINE FROM BATHROOM FIXTURES TO NEW CURB STOP.



Sandy Neck Beach Facility Reconfiguration

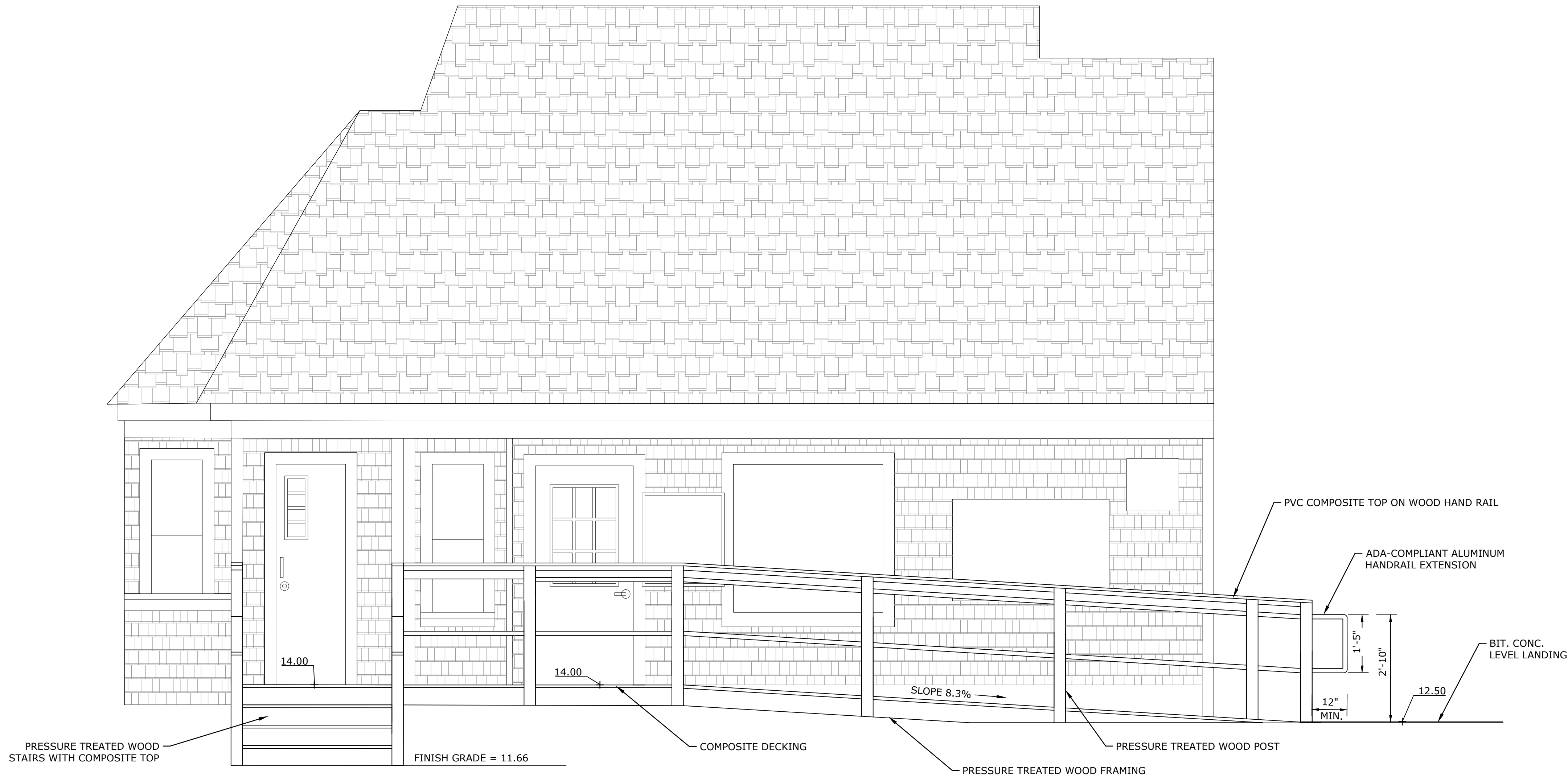
Town of Barnstable

Barnstable, MA

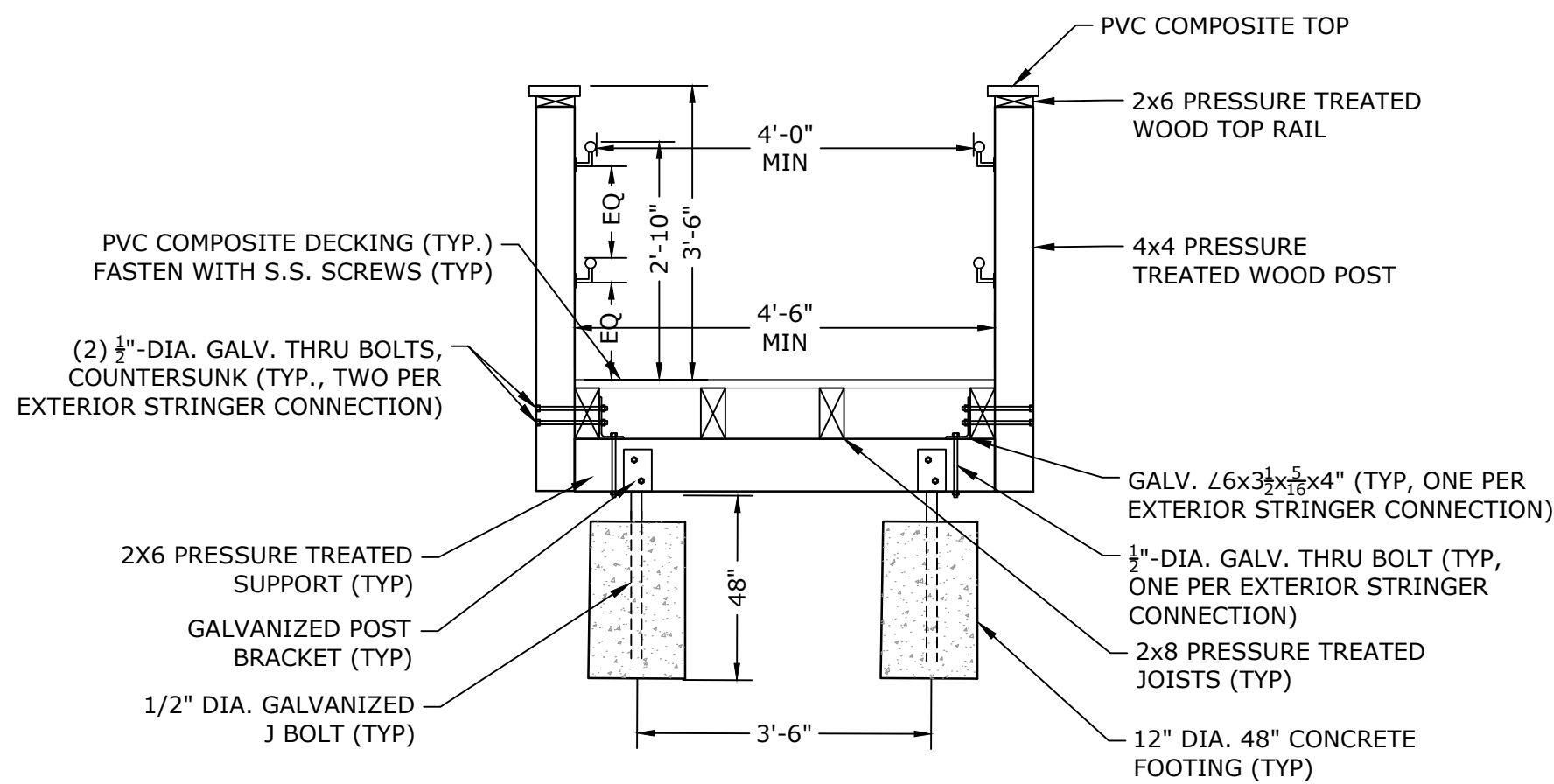
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DESIGNED/CHECKED BY:		TJG/DJB
APPROVED BY:		BSH

RELOCATED GATEHOUSE PROPOSED FLOOR PLAN

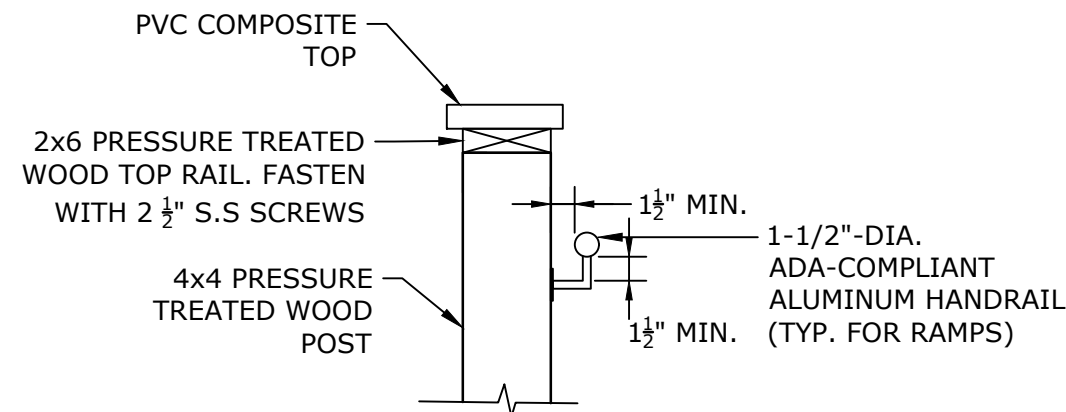
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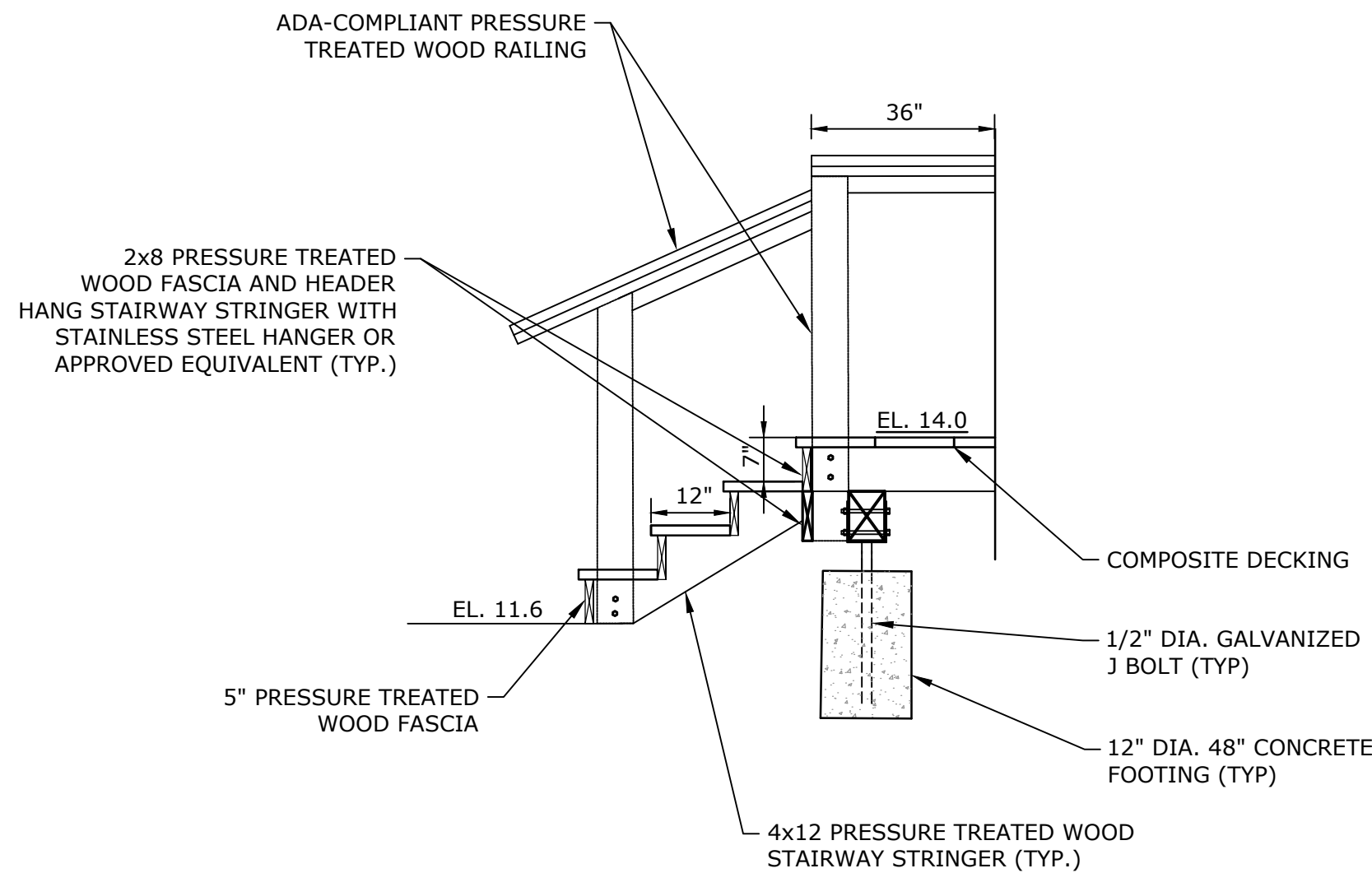
ELEVATION - NORTH



RAMP FRAMING DETAIL
NO SCALE



ALUMINUM HANDRAIL
NO SCALE



STAIR FRAMING DETAIL
NO SCALE

Sandy Neck
Beach Facility
Reconfiguration

Town of
Barnstable

Barnstable, MA

0	4/1/2025	BID SET
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PROJECT NO:		B0633-008
DATE:		B0633-008-A- Gatehouse Floor Plans.dwg
DRAWN BY:		SO
DESIGNED/CHECKED BY:		TJG/DJB
APPROVED BY:		BSH

GATE HOUSE ELEVATION AND IMPROVEMENTS - 1	
SCALE:	AS SHOWN

Sandy Neck Beach Facility Reconfiguration

Town of Barnstable

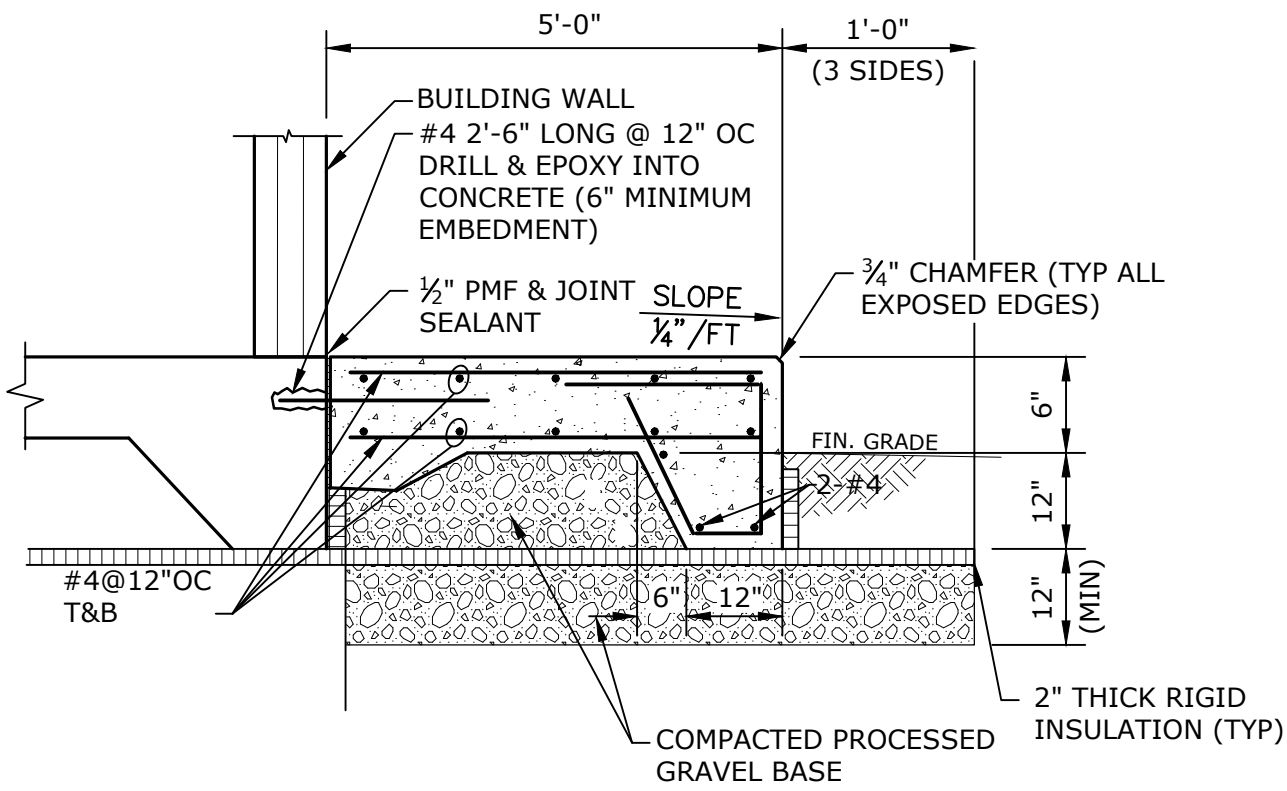
Barnstable, MA

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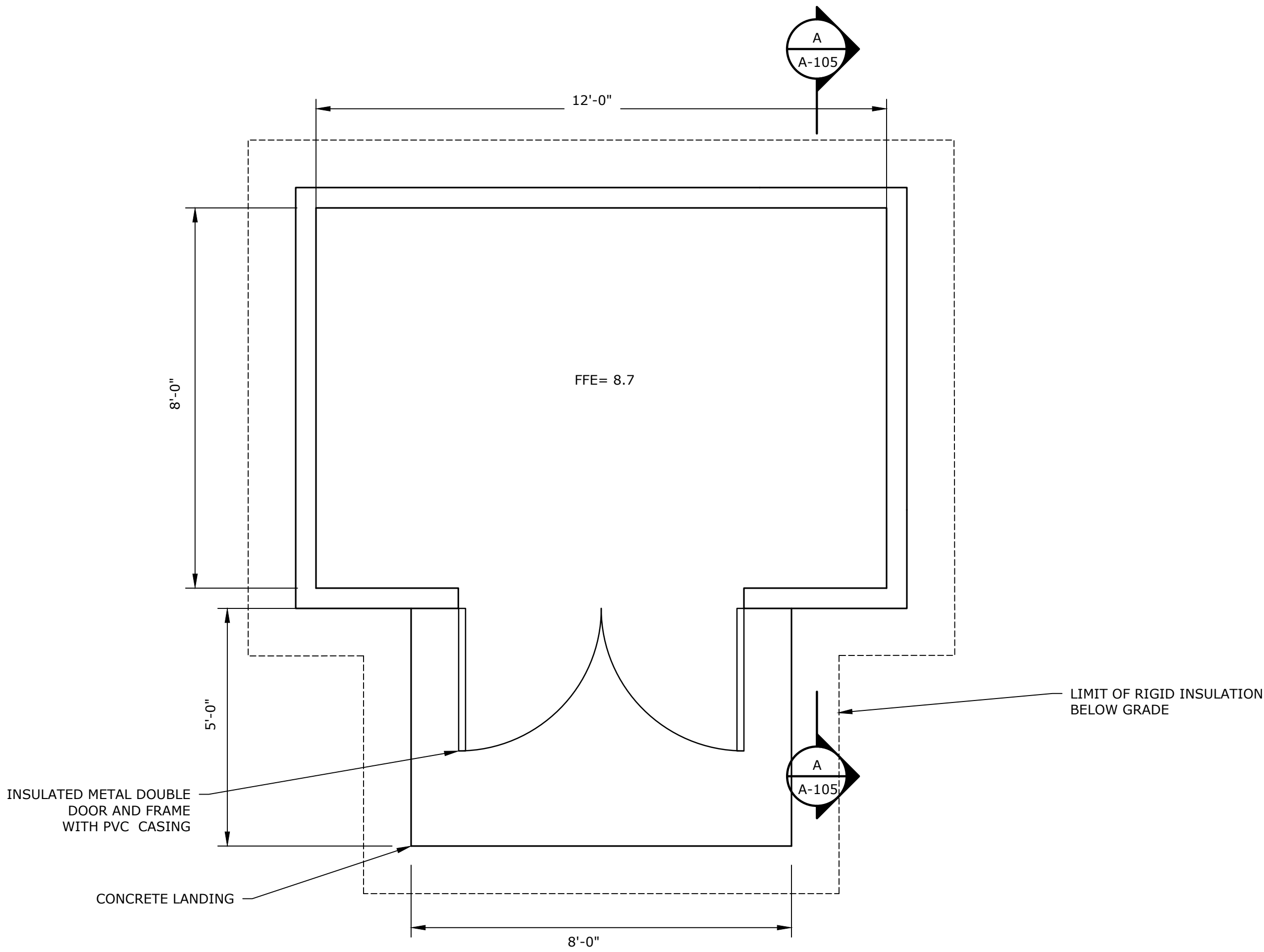
AIR COMPRESSOR BUILDING - 1 FLOOR PLAN AND SECTION

SCALE: 1/2"=1'-0"

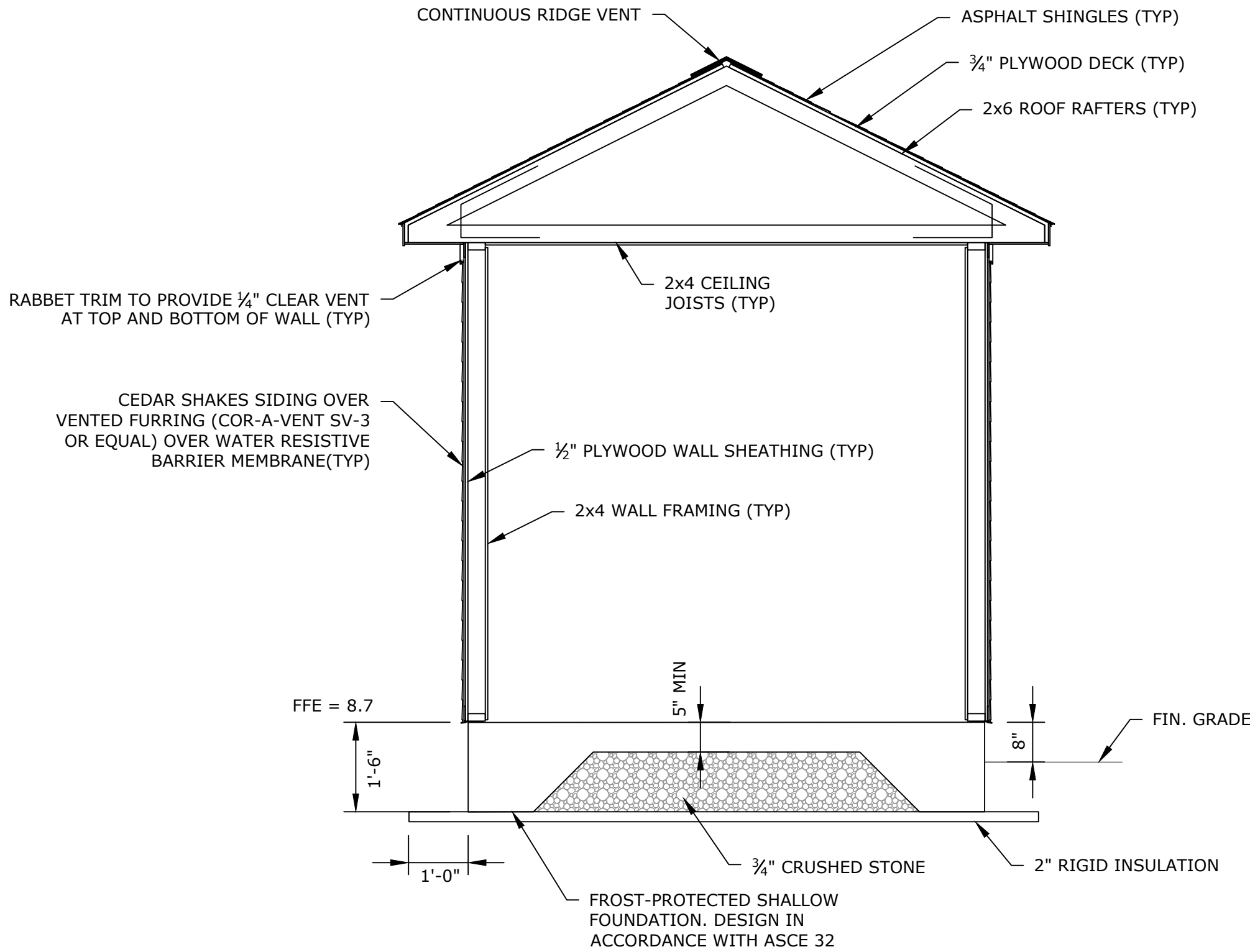
A-105



CONCRETE LANDING AT EXTERIOR DOORS
NO SCALE



FLOOR PLAN
1/2" = 1'-0"



SECTION
1/2" = 1'-0"

NOTES:

- WOOD BUILDING SHALL COMPLY WITH ALL REQUIREMENTS OF THE AMERICANS WITH DISABILITIES ACT, THE MASSACHUSETTS STATE BUILDING CODE, CURRENT EDITION, AND ALL CODES REFERENCED THEREIN, INCLUDING BUT NOT LIMITED TO:
 - 2015 INTERNATIONAL BUILDING CODE
 - 2018 INTERNATIONAL ENERGY CONSERVATION CODE
 - ASCE 7-10
- CONTRACTOR SHALL SUBMIT DRAWINGS AND CALCULATIONS FOR THE WOOD BUILDING AND FOR THE FROST PROTECTED SHALLOW FOUNDATION.
 - DRAWINGS AND CALCULATIONS FOR THE PREFABRICATED WOOD BUILDING SHALL BE PROVIDED BY THE BUILDING MANUFACTURER AND SHALL CLEARLY INDICATE ANCHOR SIZES AND LOCATIONS, AS WELL AS REACTION FORCES AND SHALL BEAR THE STAMP AND SIGNATURE OF AN ARCHITECT OR ENGINEER REGISTERED IN THE COMMONWEALTH OF MASSACHUSETTS.
 - DRAWINGS AND CALCULATIONS FOR THE FROST-PROTECTED SHALLOW FOUNDATION SHALL BE COORDINATED WITH AND SHALL SHOW ALL INFORMATION PROVIDED BY THE BUILDING MANUFACTURER RELEVANT TO SUCH COORDINATION AND SHALL BEAR THE STAMP AND SIGNATURE OF A STRUCTURAL ENGINEER REGISTERED IN THE COMMONWEALTH OF MASSACHUSETTS.

0 1' 2' 4'
SCALE: 1/2"=1'-0"

Sandy Neck
Beach Facility
Reconfiguration

Town of
Barnstable

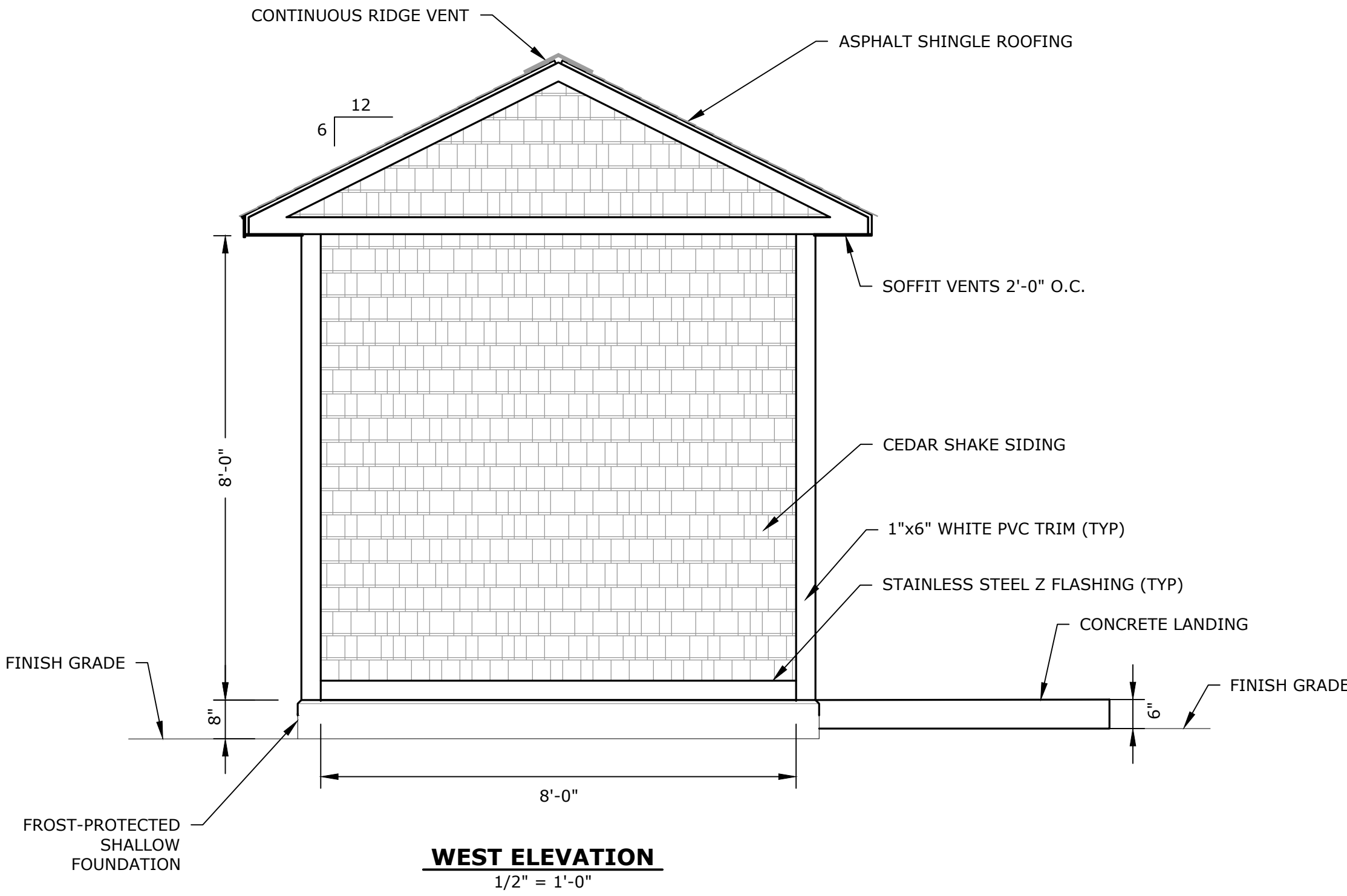
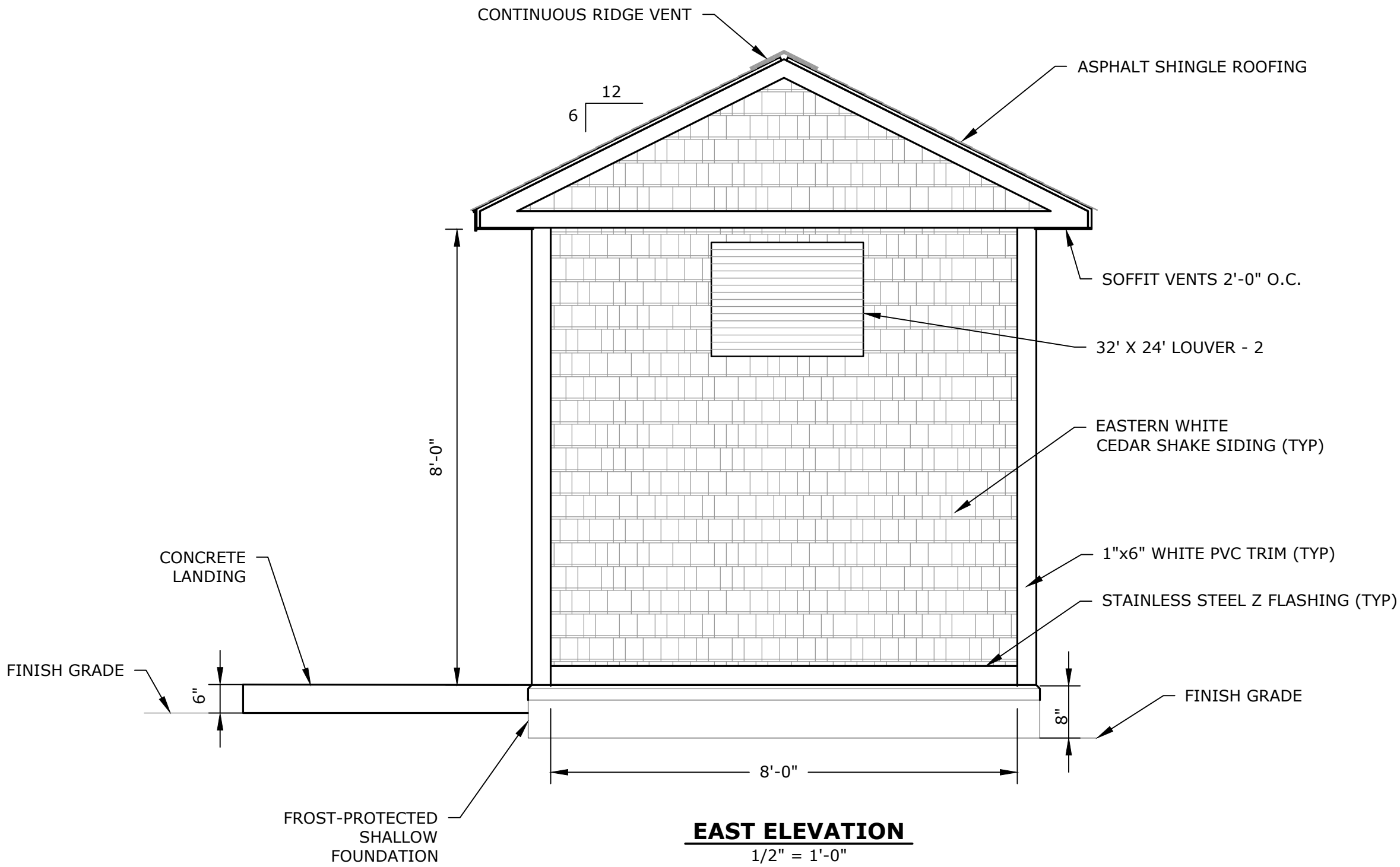
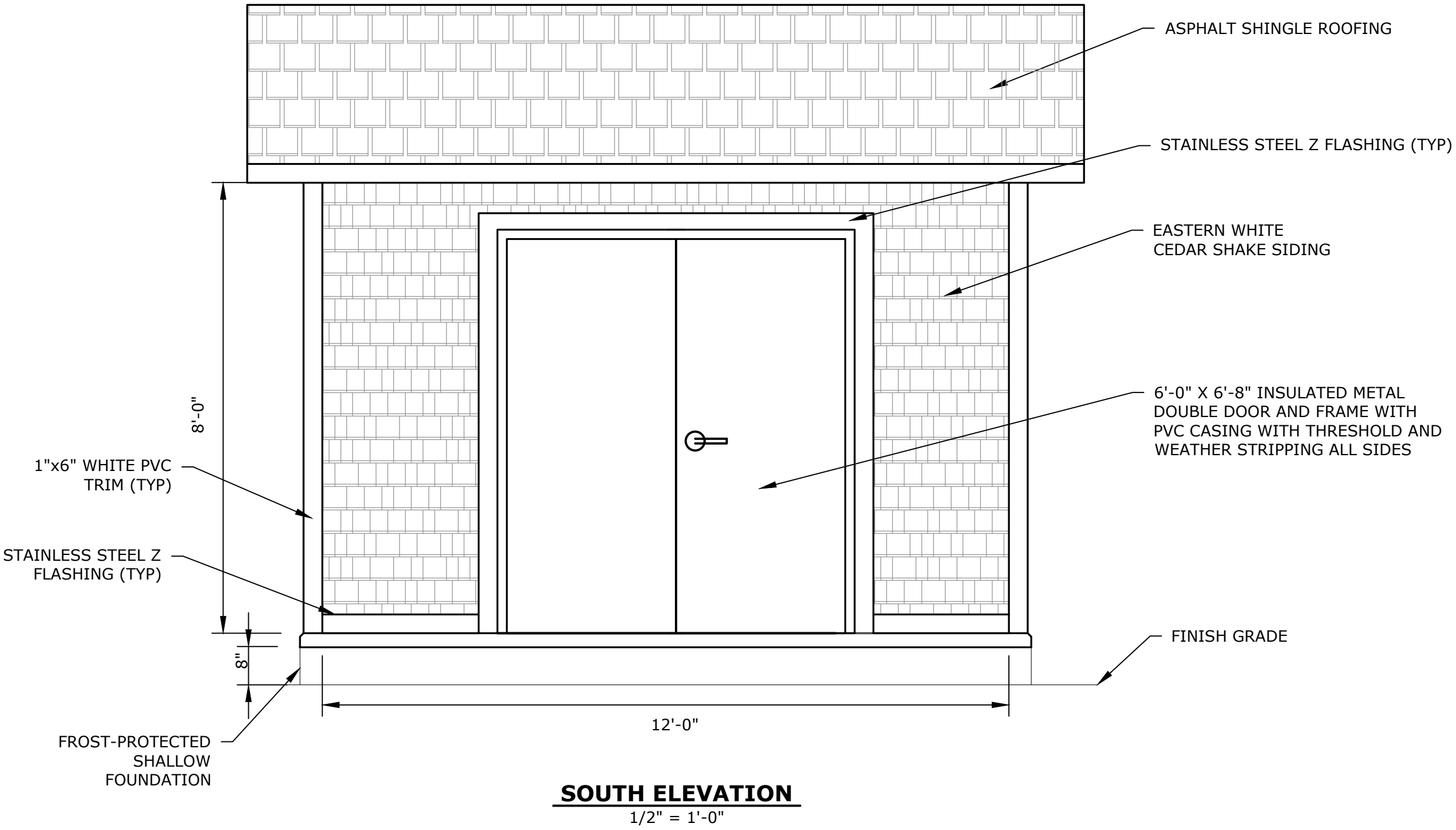
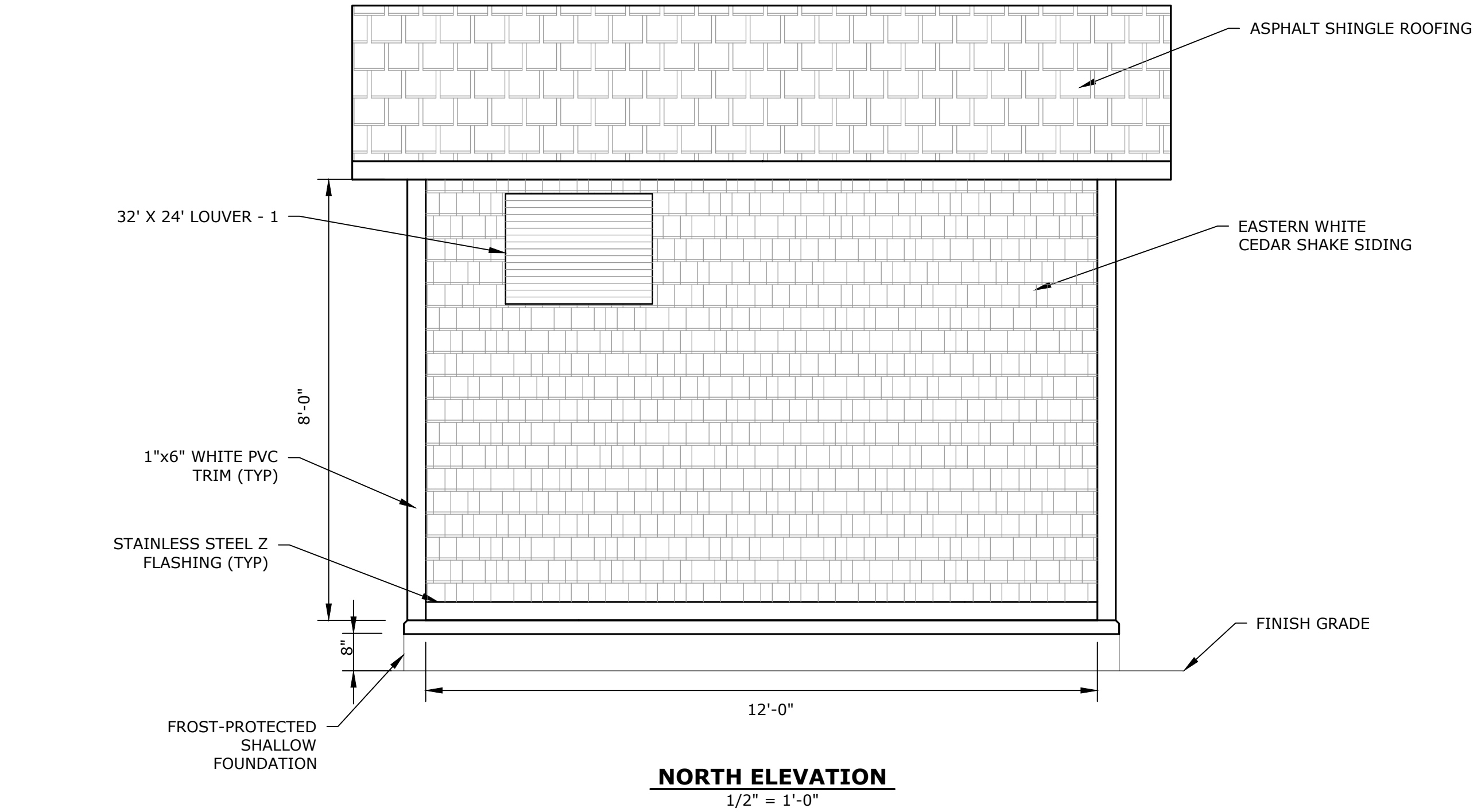
Barnstable, MA

1	2/1/2021	REV. PER ARCH. REV. COMM.
0	4/1/2025	BID SET
MARK	DATE	DESCRIPTION

PROJECT NO:		B0633-008
DATE:		
FILE:		B0633-008-A-Shed.dwg
DRAWN BY:		TJG
DESIGNED/CHECKED BY:		DJB
APPROVED BY:		BSH

AIR COMPRESSOR
BUILDING - 1
ELEVATIONS

SCALE: AS SHOWN



Sandy Neck
Beach Facility
Reconfiguration

Town of
Barnstable

Barnstable, MA

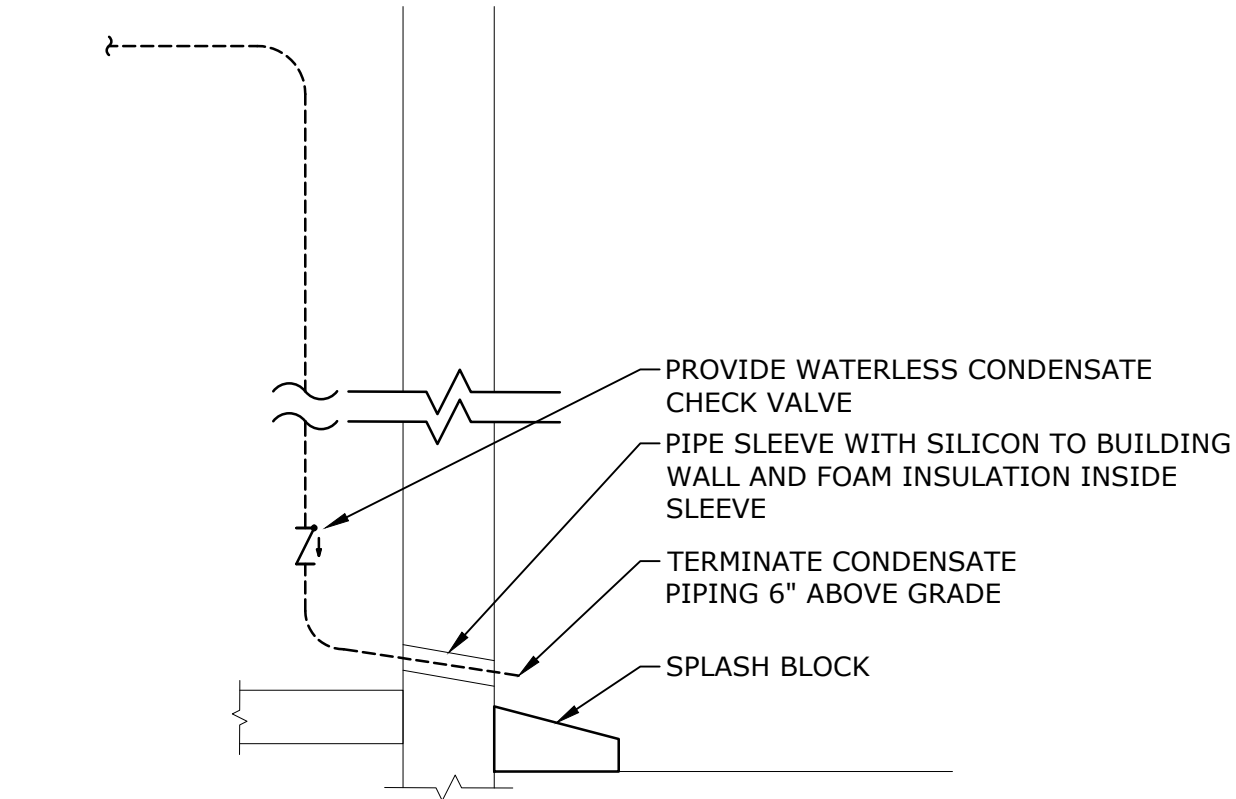
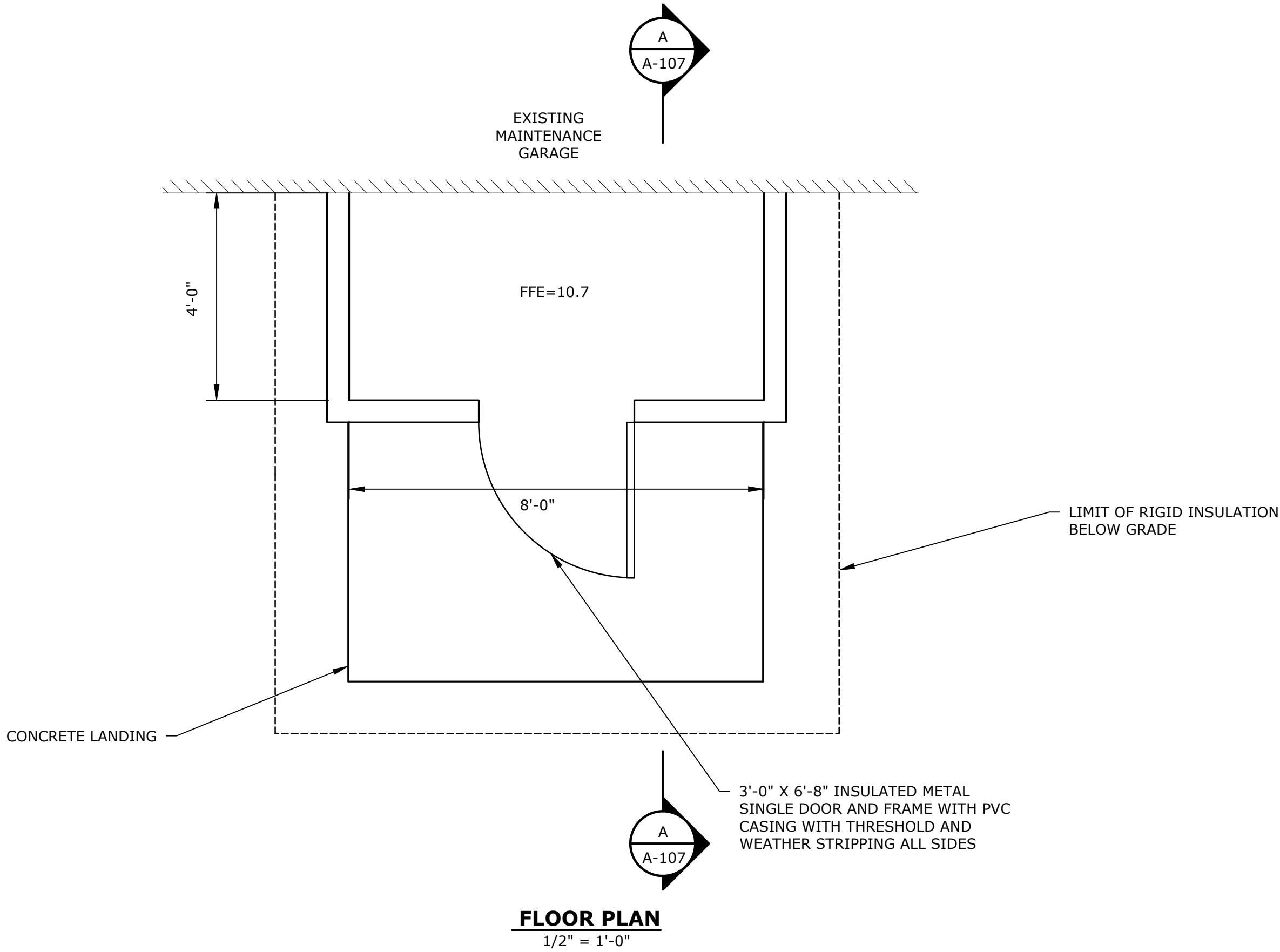
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MARK	DATE	DESCRIPTION
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DATE: B0633-008-A-Shed.dwg		
DRAWN BY: TJG		
DESIGNED/CHECKED BY: DJB		
APPROVED BY: BSH		

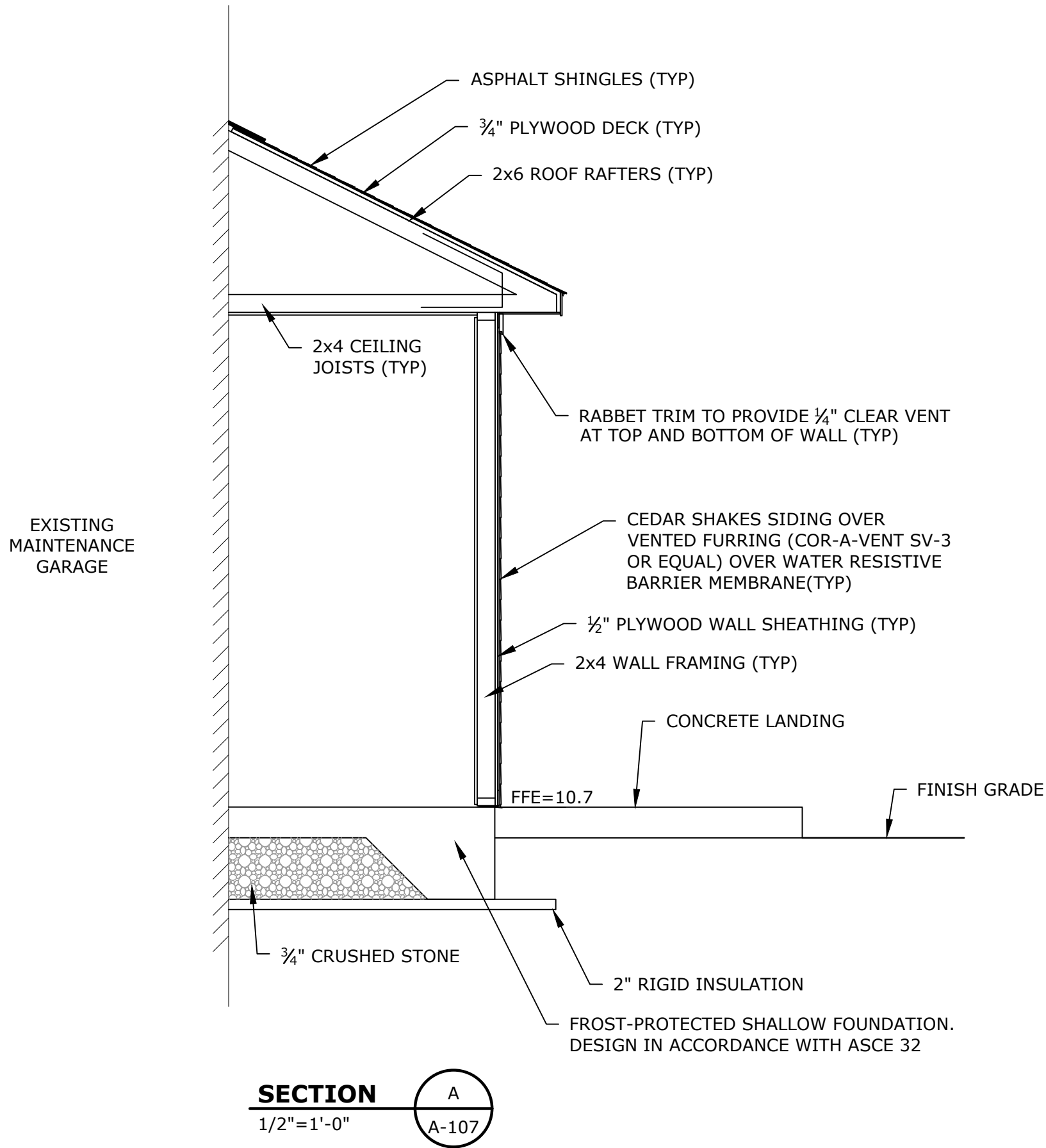
AIR COMPRESSOR
BUILDING - 2
FLOOR PLAN AND SECTION

SCALE: 1/2"=1'-0"

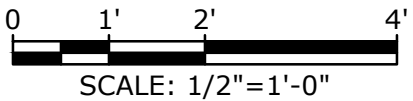
A-107



CONDENSATE TERMINATION
NO SCALE



- NOTES:**
- WOOD BUILDING SHALL COMPLY WITH ALL REQUIREMENTS OF THE AMERICANS WITH DISABILITIES ACT, THE MASSACHUSETTS STATE BUILDING CODE, CURRENT EDITION, AND ALL CODES REFERENCED THEREIN, INCLUDING BUT NOT LIMITED TO:
 - 2015 INTERNATIONAL BUILDING CODE
 - 2018 INTERNATIONAL ENERGY CONSERVATION CODE
 - ASCE 7-10
 - CONTRACTOR SHALL SUBMIT DRAWINGS AND CALCULATIONS FOR THE WOOD BUILDING AND FOR THE FROST PROTECTED SHALLOW FOUNDATION.
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Sandy Neck
Beach Facility
Reconfiguration

Town of
Barnstable

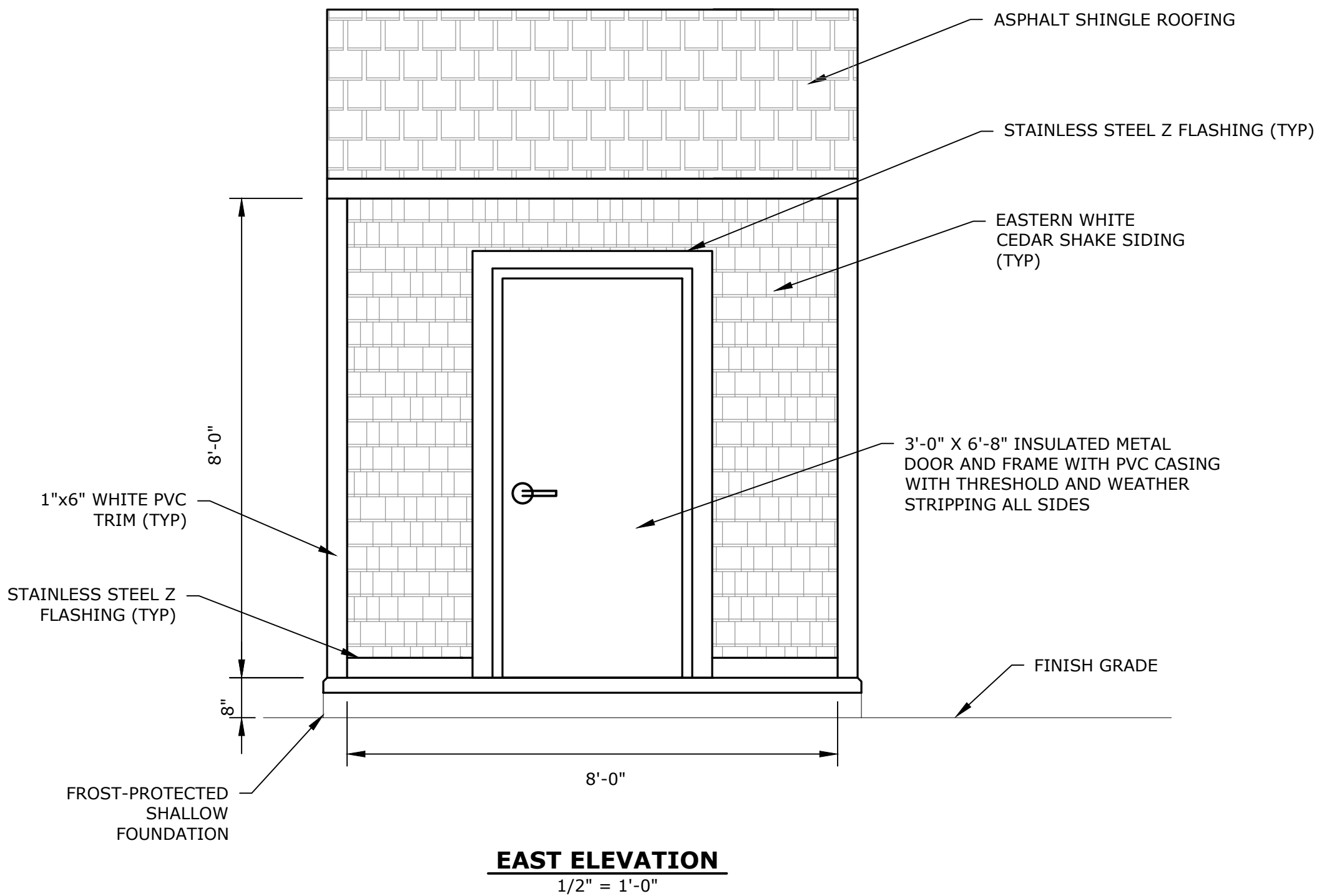
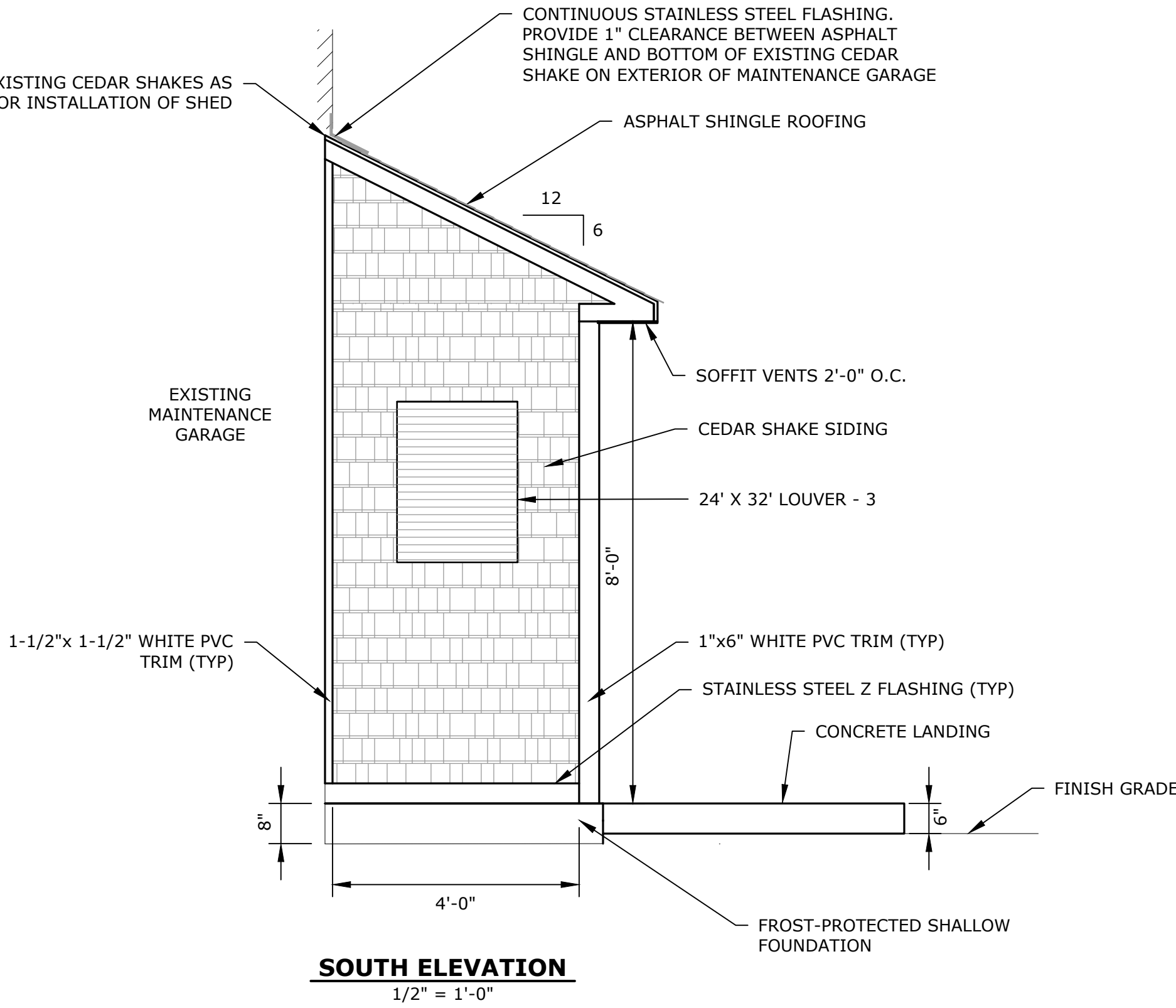
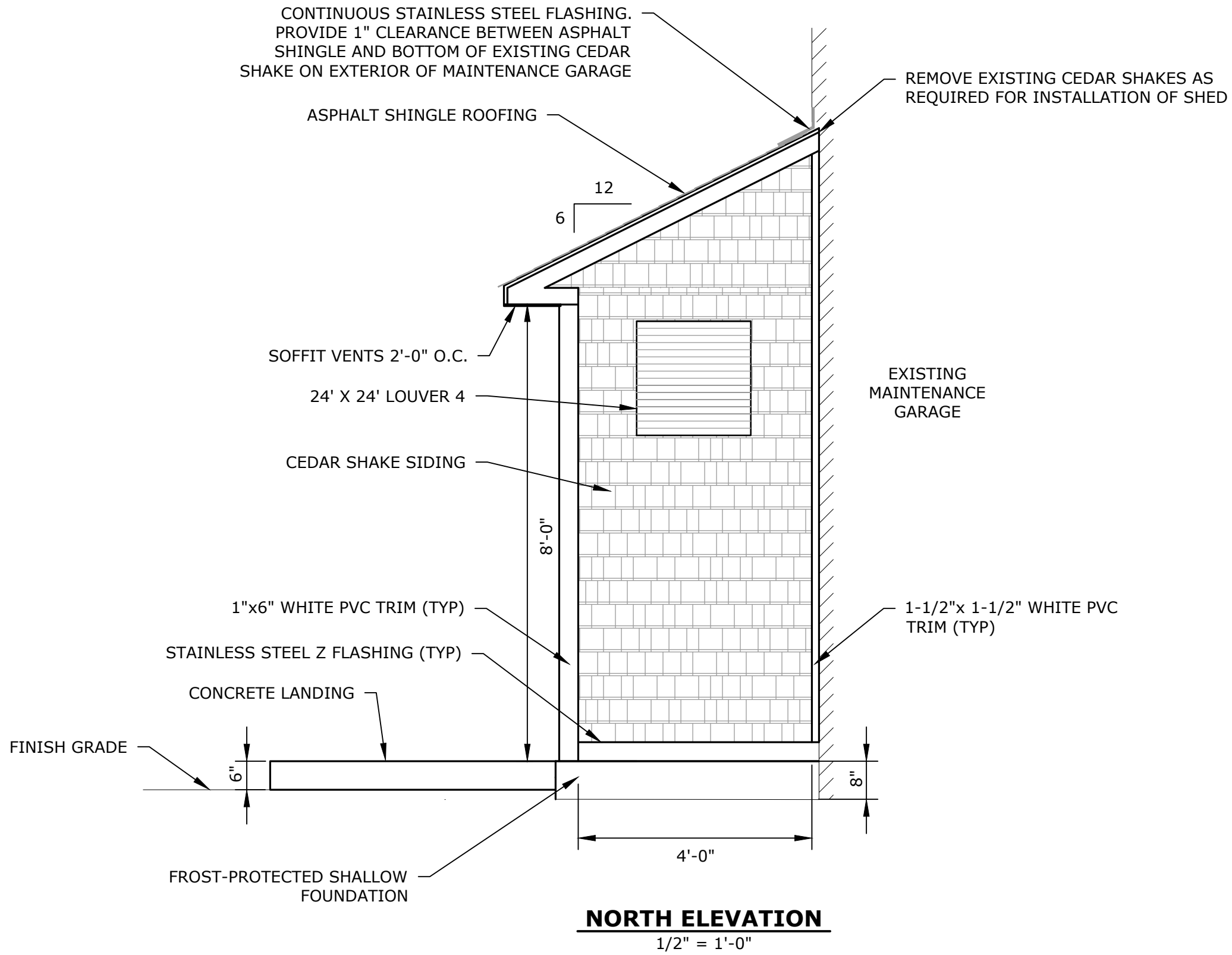
Barnstable, MA

1	2/1/2021	REV. PER ARCH. REV. COMM.
0	4/1/2025	BID SET
MARK	DATE	DESCRIPTION

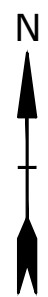
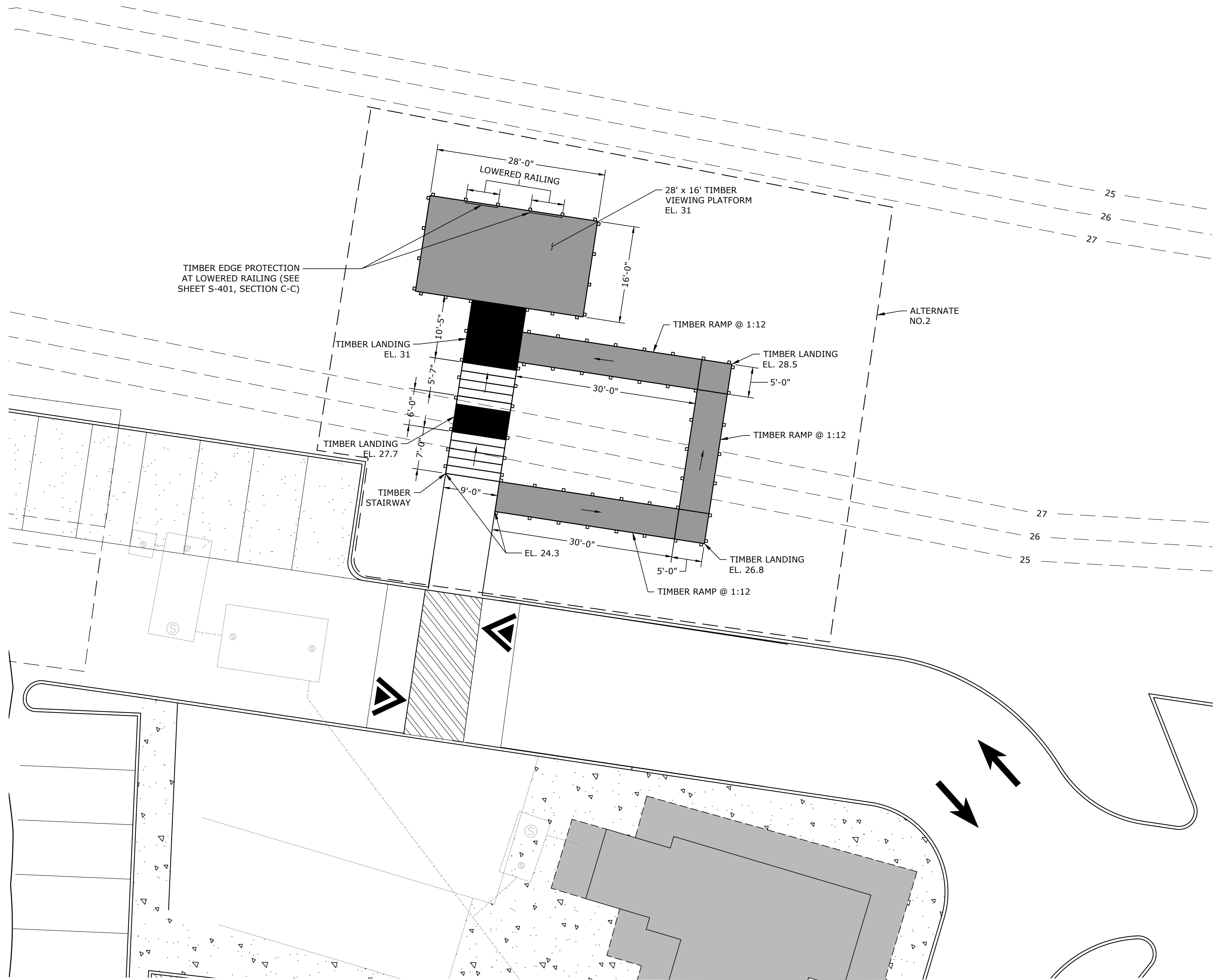
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DATE:		
FILE:		B0633-008-A-Shed.dwg
DRAWN BY:		TJG
DESIGNED/CHECKED BY:		DJB
APPROVED BY:		BSH

AIR COMPRESSOR
BUILDING - 2
ELEVATIONS

SCALE:	AS SHOWN
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Last Saved: 3/21/2025 10:05 AM
Project: Sandy Neck Beach Facility Reconfiguration Drawings
Figure: AutoCAD Sheets B0633-008-C-Structural Plans IFB.dwg
Tighe & Bond 2160633 Barnstable 008 - 1722 Sandy Neck Beach Facility Reconfiguration Drawings



Tighe&Bond

Sandy Neck Beach Facility Reconfiguration

Town of Barnstable

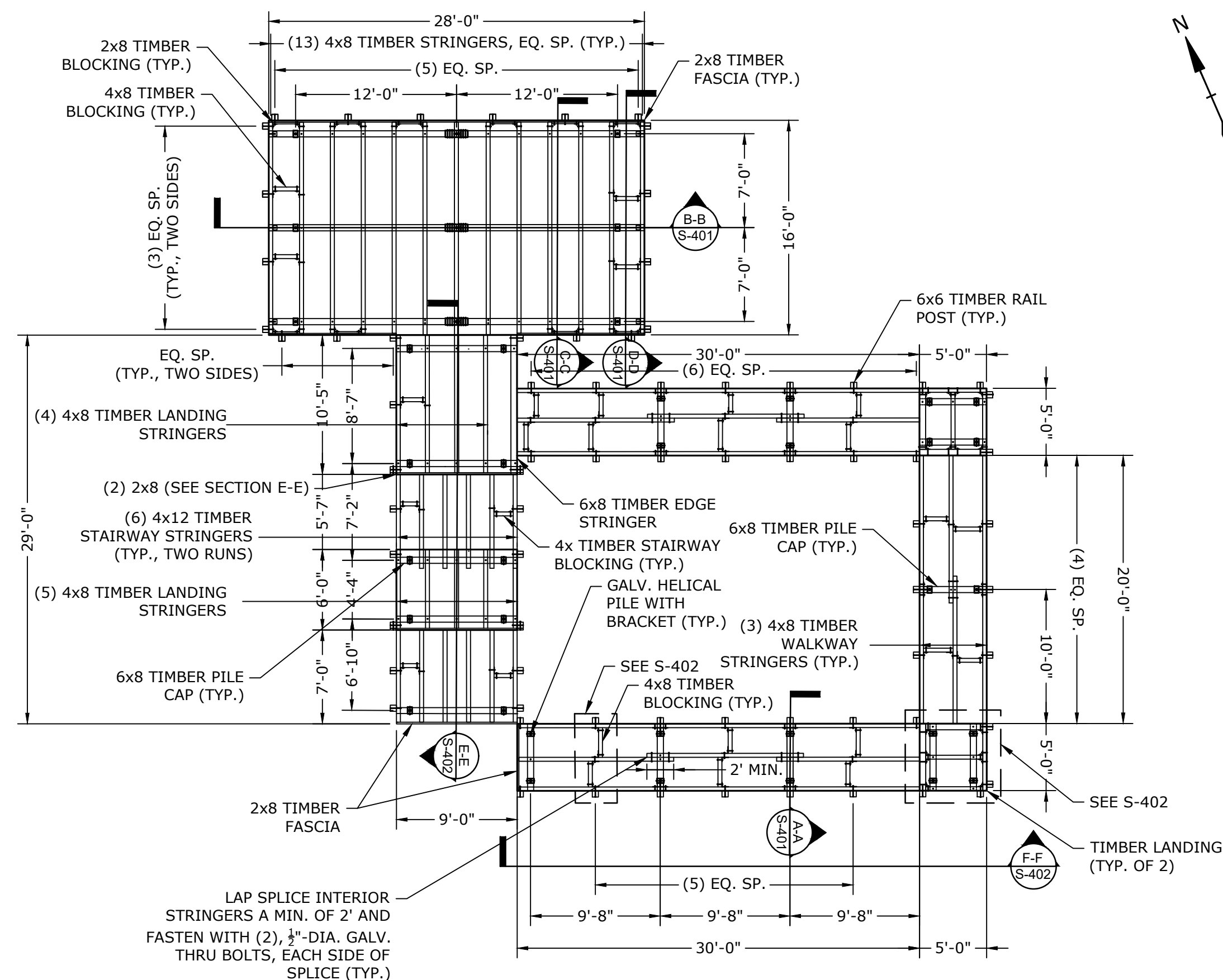
Barnstable, MA

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DATE:	7/8/2024	
FILE:	B0633-008-C-Structural Plans IFB.dwg	
DRAWN BY:	TJG/RKC	
DESIGNED/CHECKED BY:	RKC/AJG	
APPROVED BY:	BSH	

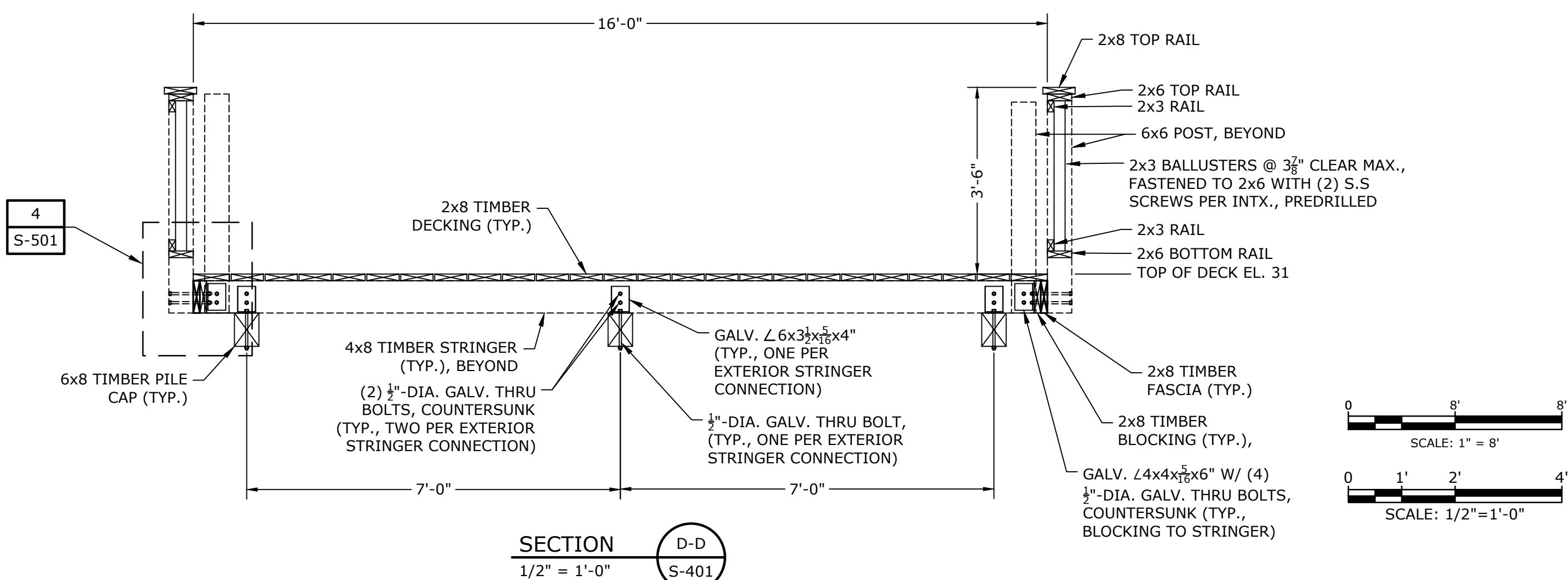
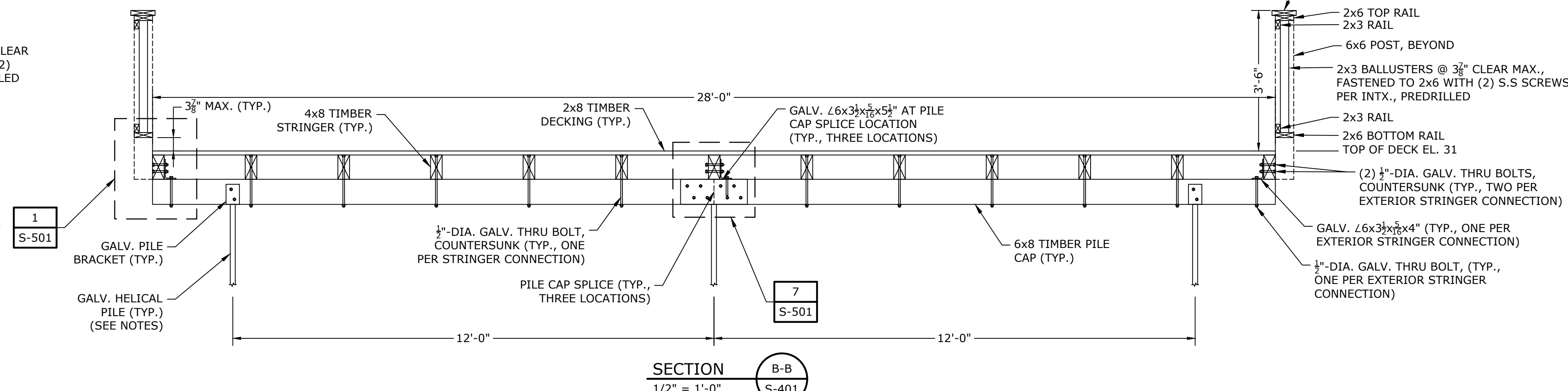
OBSERVATION DECK
STAIRWAY, WALKWAY &
PLATFORM PLAN AND NOTES

SCALE: 1" = 10'

S-100



FRAMING PLAN



SECTION
1/2" = 1'-0"

Barnstable, MA

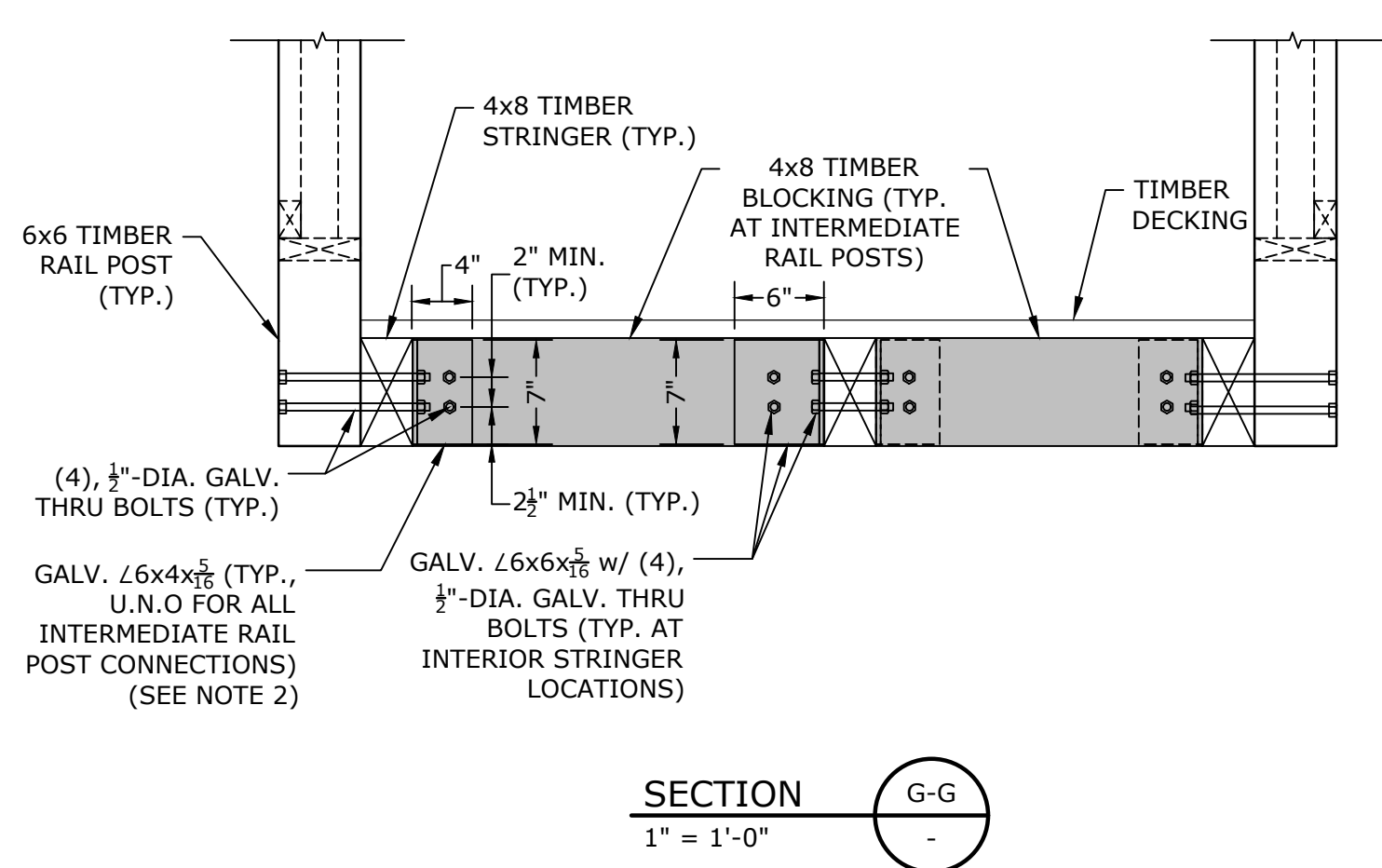
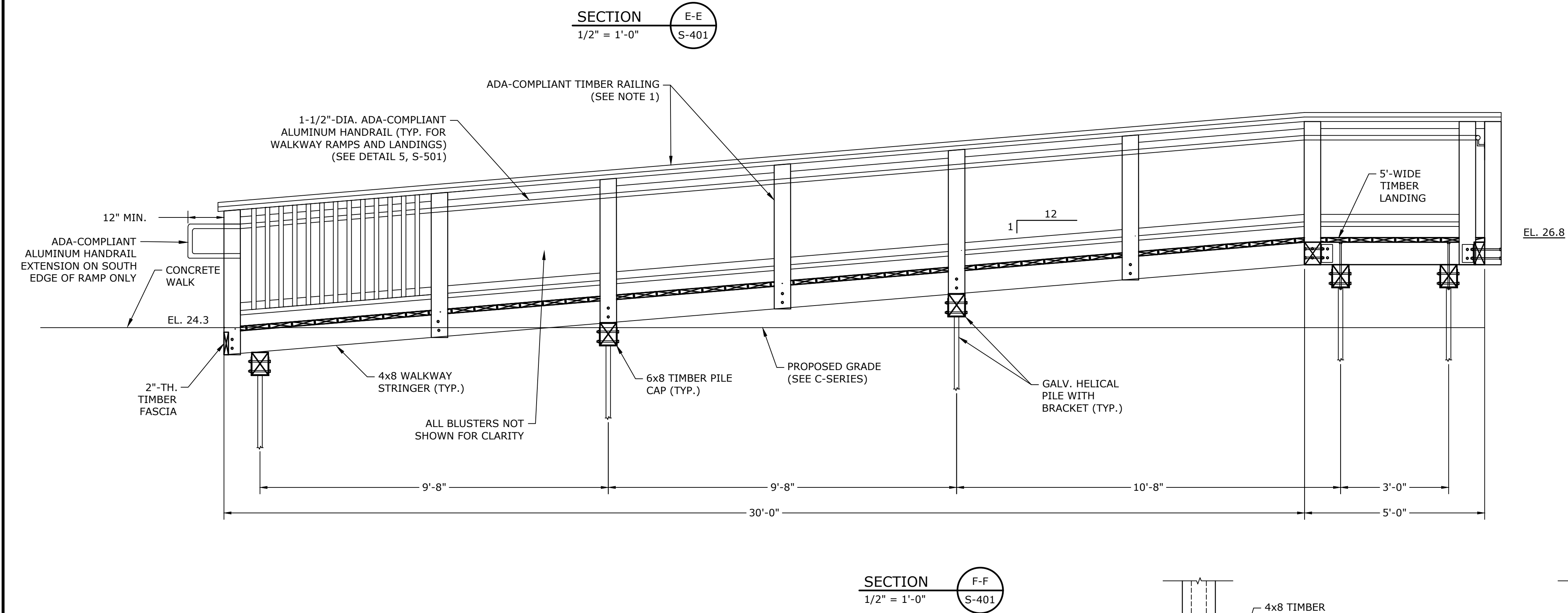
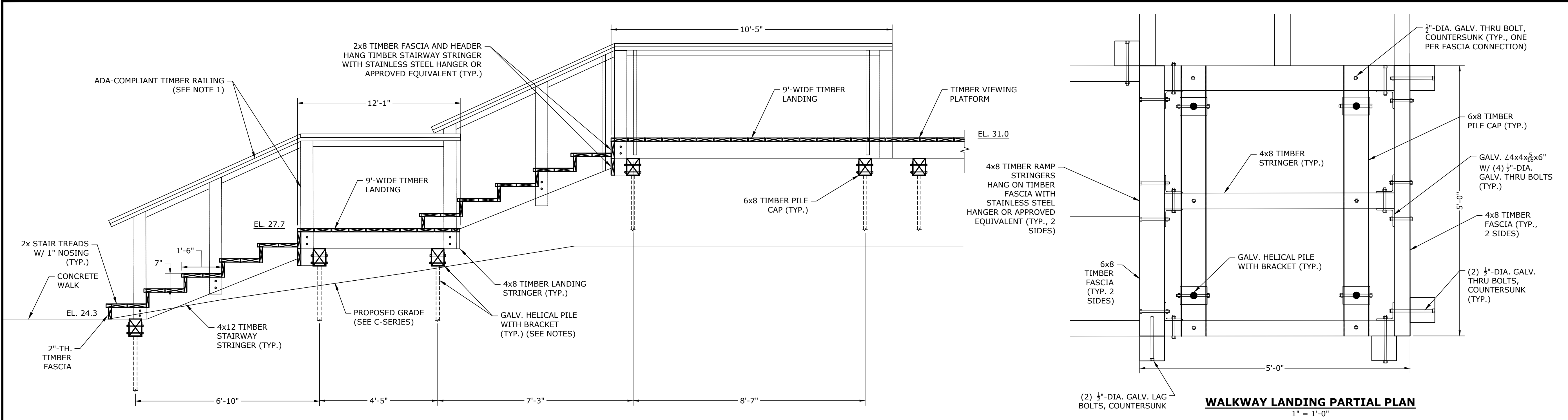
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DATE: 7/8/24		
FILE: B0633-008-C-Structural Plans 1FB.dwg		
DRAWN BY: TJG/RKC		
DESIGNED/CHECKED BY: RKC/AJG		
APPROVED BY: BSH		

OBSERVATION DECK STAIRWAY, WALKWAY & PLATFORM PLANS AND SECTIONS

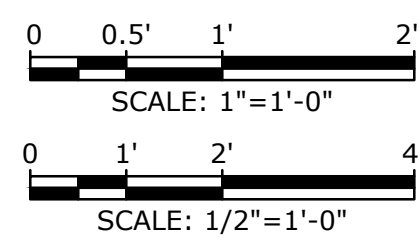
SCALE: AS SHOWN

S-401

Last Saved: 3/21/2025 10:06:12 AM
Project: 1722 Sandy Neck Beach Facility Reconfiguration Drawings
Figures: AutoCAD Sheet: B0633-008-C-Structural Plans IFB.dwg
Title & Content: 1722 Sandy Neck Beach Facility Reconfiguration Drawings



- NOTES:**
- RAILING BALUSTERS AND/OR BOTTOM RAILS NOT SHOWN FOR CLARITY. SEE SHEET S-501 FOR RAILING DETAILS.
 - REFER TO FRAMING PLAN ON S-401 FOR IDENTIFIED LOCATIONS OF INTERMEDIATE RAIL POST BLOCKING. THE EXTERIOR RAIL POST CONNECTION TO THE EXTERIOR STRINGER APPLIES TO THE INTERMEDIATE RAIL POSTS AT THE STAIRWAY AND PLATFORMS. MINIMUM EDGE DISTANCES TO BOLTED CONNECTIONS SHALL BE MAINTAINED, AS INDICATED.
 - ALL BOLTED CONNECTIONS SHALL BE FITTED WITH A NUT AND DOCK WASHER.



Tighe&Bond

Sandy Neck Beach Facility Reconfiguration

Town of Barnstable

Barnstable, MA

0	4/1/2025	BID SET
MARK	DATE	DESCRIPTION
PROJECT NO: B0633-008		
DATE: 7/8/24		
FILE: B0633-008-C-Structural Plans IFB.dwg		
DRAWN BY: TJG/RKC		
DESIGNED/CHECKED BY: RKC/AJG		
APPROVED BY: BSH		
OBSERVATION DECK STAIRWAY AND WALKWAY PLANS AND SECTIONS		
SCALE:		AS SHOWN
S-402		

PROJECT NO:	B0633-008
DATE:	7/28/24
FILE:	B0633-008-C-Structural Plans IFB.dwg
DRAWN BY:	TJG/RKC
DESIGNED/CHECKED BY:	RKC/AJG
APPROVED BY:	BSH

SCALE: AS SHOWN



DETAIL	6
1" = 1'-0"	S-401



DETAIL	8
N.T.S.	-



TIMBER BLOCKING CONNECTION

DETAIL	4
1" = 1'-0"	S-401



DETAIL	7
1" = 1'-0"	S-401



DETAIL	5
1" = 1'-0"	S-401



DETAIL	3
1" = 1'-0"	S-401



RAIL POST TO EXTERIOR STRINGER CONNECTION

DETAIL	1
1" = 1'-0"	S-401



EXTERIOR STRINGER SPLICE CONNECTION

DETAIL	2
1" = 1'-0"	S-401

1. PLACE DECKING WITH VISIBLE HEARTWOOD DOWN.
2. PRE-DRILL DECK PLANKS AS NECESSARY TO PREVENT SPLITTING.
3. END PLANK SHALL BE A FULL WIDTH BOARD.
4. EACH ROW OF DECK BOARDS ON THE VIEWING PLATFORM SHALL BE CONSTRUCTED OF A MAXIMUM OF TWO DECK BOARDS, WITH ONE BOARD HAVING A MINIMUM LENGTH OF 18 FEET. EACH ROW OF DECK BOARDS ON THE WALKWAYS AND STAIRWAYS SHALL BE CONSTRUCTED OF A SINGLE BOARD.
5. THE CONTRACTOR SHALL ALTERNATE DECK BOARD BUTT JOINTS IN EACH ROW SO AS TO NOW HAVE JOINTS IN A LINE.
6. ALL BOLTED CONNECTIONS SHALL BE FITTED WITH A NUT AND DOCK WASHER.

Plot Date: 3/21/2025
 Plotted On: Mar 27, 2025 12:05 pm By: APaoji
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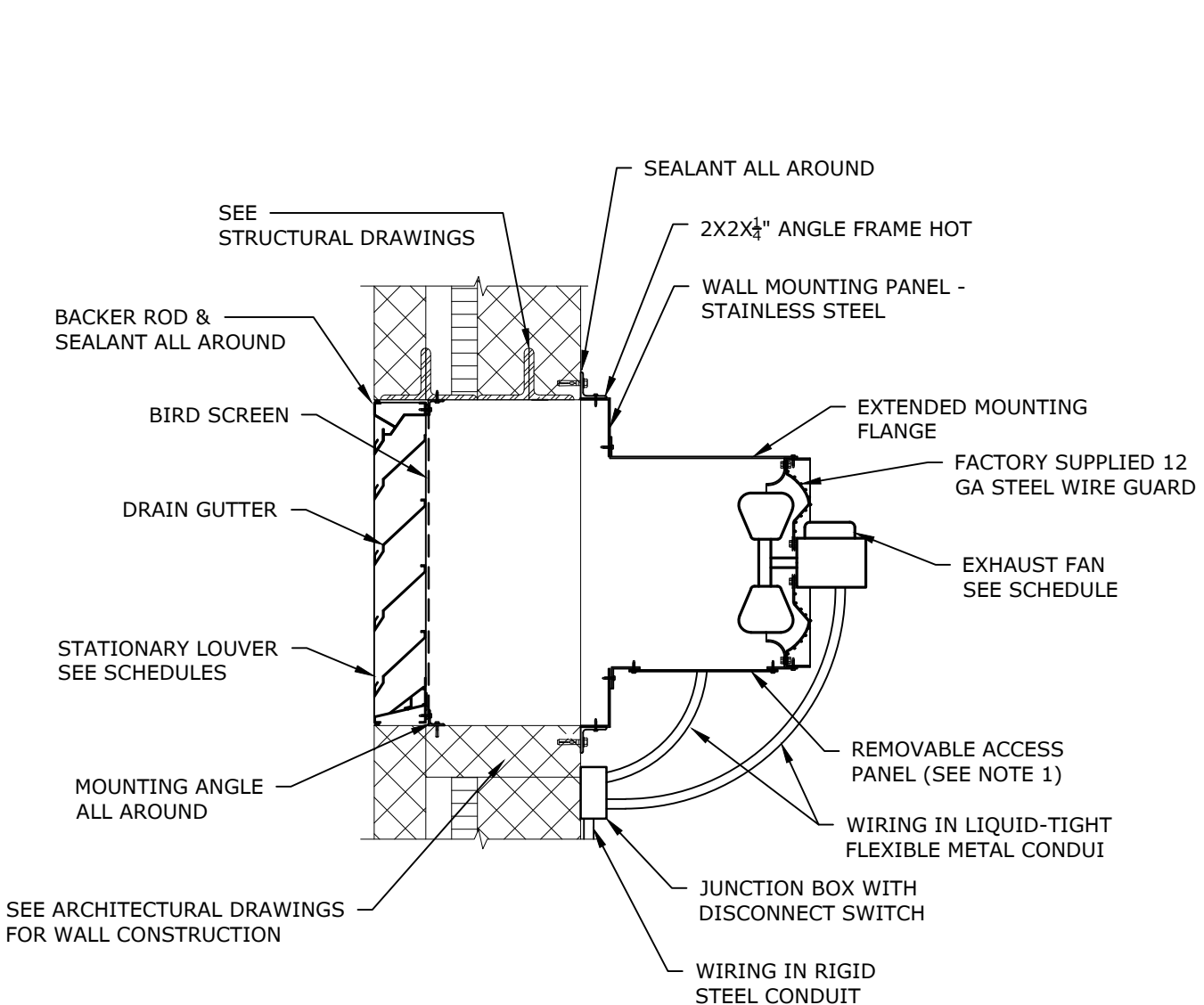
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Plotted On: Mar 17, 2025 12:05pm
File & Saved As: B0633 Barnstable 008 - 1722 Sandy Neck Beach Facility Reconfiguration Drawings - Figures AutocAD Sheet B0633-008-H-001.dwg

FAN SCHEDULE														
UNIT NO.	MANUFACTURER	MODEL NO.	TYPE	CFM	RPM	ESP (IN W.C.)	BHP	MHP	SPEED CONTROL	ELECTRICAL				REMARKS
										VOLTS	PH	RLA	FACTORY MOUNTED DISCONNECT?	
EF-1	COOK	120SQN17D092VF	CENTRIFUGAL SQUARE INLINE	1400	1500	0.25	0.26	0.33	EC MOTOR	115	1	4.10	NO	[1]
EF-2	COOK	14XW32D17	PROPELLER WALL FAN	900	925	0.10	0.04	0.13	EC MOTOR	115	1	1.90	NO	[1]

- GENERAL NOTES:
1. PROVIDE FLEX CONNECTOR AT ALL FAN CONNECTIONS.
2. PROVIDE WITH PHENOLIC EPOXY POWDER COATING.
3. MANUFACTURER AS SHOWN OR APPROVED EQUAL.
- SCHEDULE NOTES:
[1] PROVIDE WITH NEMA 3 DISCONNECT SHIPPED LOOSE

LOUVER SCHEDULE										
UNIT NO.	MANUFACTURER	MODEL NO.	FUNCTION	TYPE	SIZE W x H (IN)	CFM	FA VELOCITY FPM	FREE AREA (SQ FT)	P.D. (IN W.G.)	REMARKS
L-1	RUSKIN	HZ700	SUPPLY	STATIONARY	32x40	1700	390	4.39	0.04	SEE NOTES.
L-2	RUSKIN	HZ700	EXHAUST	STATIONARY	32x24	1700	708	2.4	0.14	SEE NOTES.
L-3	RUSKIN	HZ700	SUPPLY	STATIONARY	24x32	900	360	2.50	0.04	SEE NOTES.
L-4	RUSKIN	HZ700	EXHAUST	STATIONARY	24x24	900	510	1.77	0.08	SEE NOTES.

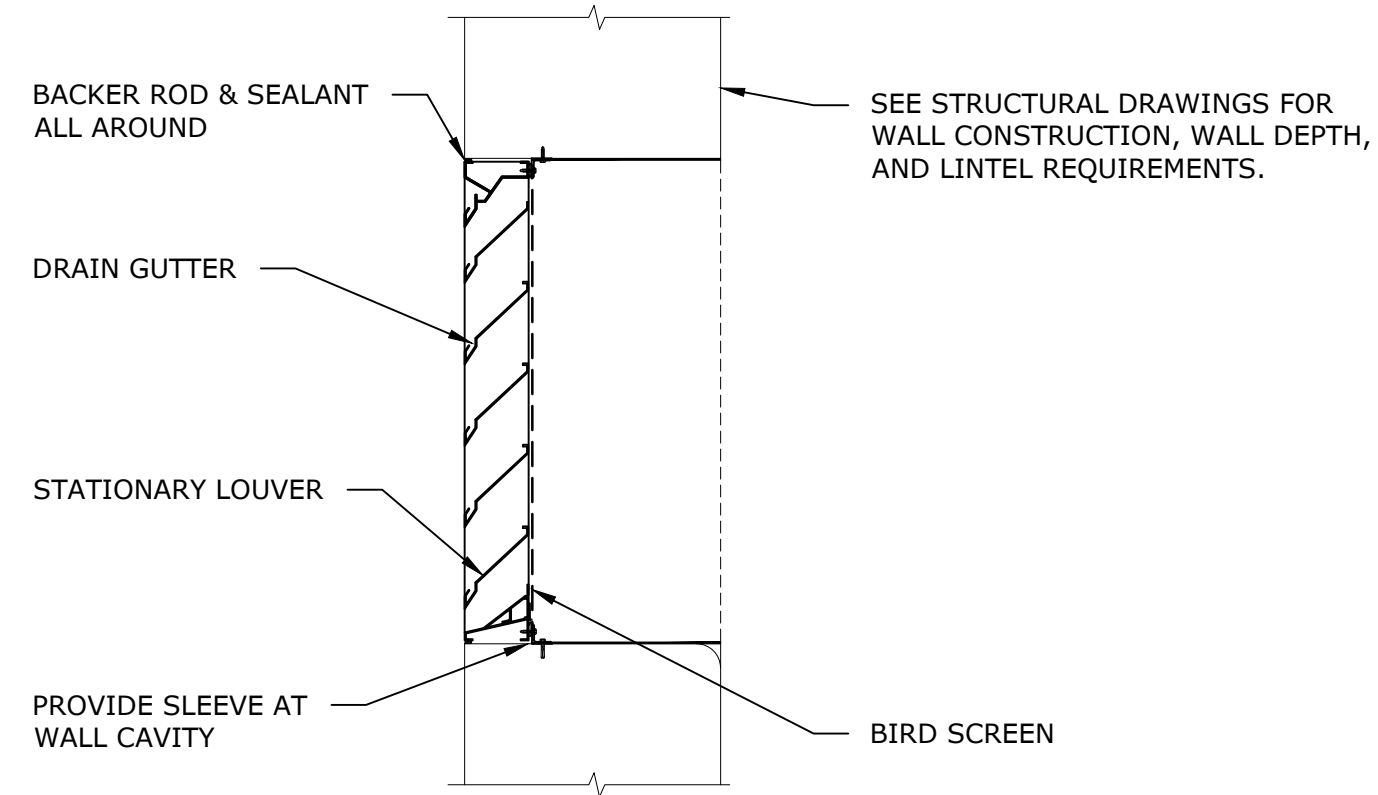
- GENERAL NOTES:
1. PROVIDE KYNAR FINISH AND BIRD SCREEN.
2. VERIFY COLOR OF LOUVERS WITH OWNER.
3. MANUFACTURER AS SHOWN OR APPROVED EQUAL.



NOTES:

- PROVIDE REMOVABLE ACCESS PANEL IN BOTTOM OR SIDE OF EXTENDED MOUNTING FLANGE, LOCATION DETERMINED BY THE ENGINEER, FOR SHUTTER MOTOR AND FAN MOTOR ACCESS.
- PROVIDE ALL MATERIALS, SUPPORTS, HANGERS, ETC. NECESSARY TO MOUNT FANS PER THE MANUFACTURER'S INSTRUCTIONS.
- INSTALL JUNCTION BOX ON WALL NEAR FAN. RUN FAN AND SHUTTER WIRING IN RIGID STEEL CONDUIT TO THE JUNCTION BOX AND IN LIQUID-TIGHT FLEXIBLE METAL CONDUITS TO THE SHUTTER OPERATOR AND TO THE FAN MOTOR. PROVIDE RUBBER GROMMETS WHERE THE CONDUITS PASS THROUGH THE MOUNTING FLANGE.
- PROVIDE SPACING BETWEEN EXHAUST FAN AND SHUTTER IN ACCORDANCE WITH FAN MANUFACTURER'S RECOMMENDATIONS.
- PROVIDE DUCT SLEEVE IN WALL CAVITY FROM LOUVER TO INTERIOR WALL.

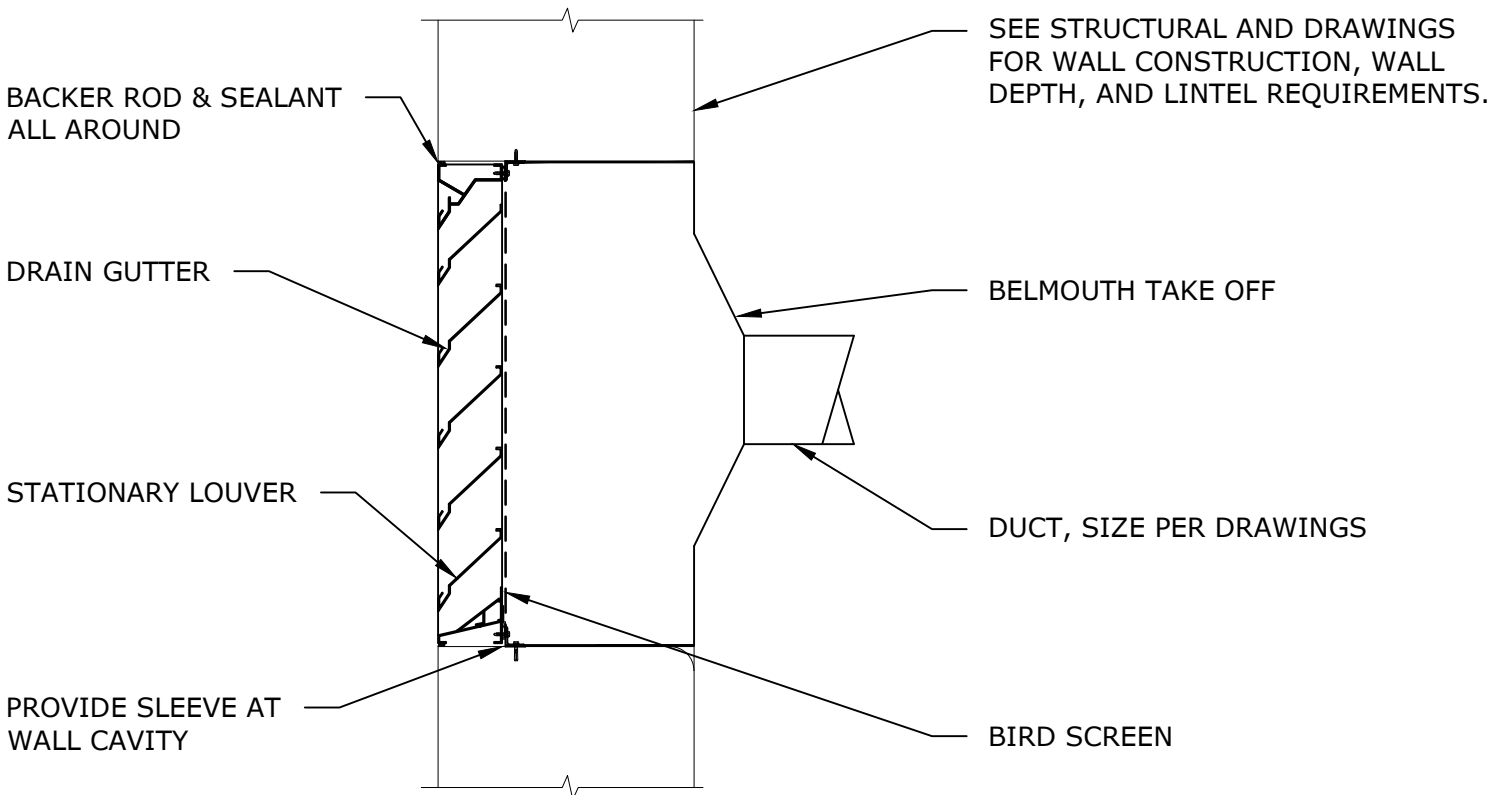
PROPELLER WALL EXHAUST FAN - (EF-2)
NO SCALE



NOTES:

- PROVIDE DUCT SLEEVE IN WALL CAVITY FROM LOUVER TO INTERIOR WALL.

LOUVER
NO SCALE



NOTES:

- PROVIDE DUCT SLEEVE IN WALL CAVITY FROM LOUVER TO INTERIOR WALL.

LOUVER - DUCTED
NO SCALE

GENERAL NOTES

- VERIFY ALL EXISTING CONDITIONS AND DIMENSIONS PRIOR TO COMMENCEMENT OF WORK.
- PROVIDE ALL REQUIRED MATERIALS, LABOR, EQUIPMENT, AND SERVICES NECESSARY FOR THE INSTALLATION OF THE WORK AS SHOWN ON THESE DRAWINGS OR AS INDICATED IN THE PROJECT SPECIFICATIONS.
- ALL MATERIALS, METHODS AND EQUIPMENT INSTALLED MUST BE IN COMPLIANCE WITH PROJECT SPECIFICATIONS AND APPLICABLE CODES.
- THE DRAWINGS ARE DIAGRAMMATIC AND INDICATE THE GENERAL ARRANGEMENT OF SYSTEMS AND WORK INCLUDED IN THE CONTRACT.
- COORDINATE LOCATIONS OF EQUIPMENT AND SYSTEMS WITH OTHER TRADES BEFORE AND DURING CONSTRUCTION. ANY MODIFICATIONS REQUIRED THAT RESULT FROM A LACK OF COORDINATION SHALL BE PERFORMED AT NO ADDITIONAL COST.
- HVAC DRAWINGS DO NOT SHOW ALL CONDITIONS AND SYSTEMS OF THE BUILDING. CONTRACTOR SHALL USE ALL DRAWINGS AND SPECIFICATIONS OF CONTRACT DOCUMENTS FOR COORDINATION AND SHALL VERIFY FIELD CONDITIONS.
- INSTALL ALL EQUIPMENT IN ACCORDANCE WITH MANUFACTURER'S RECOMMENDATIONS INCLUDING LISTED SERVICE CLEARANCE SPACE.
- COORDINATE NEW DUCTWORK AND PIPING WITH LIGHTING, AND OTHER UTILITIES. INSTALL ALL REQUIRED OFFSETS AND TRANSITIONS TO PREVENT INTERFERENCE WITH FIELD CONDITIONS. OBTAIN APPROVAL FROM ENGINEER PRIOR TO MAJOR RELOCATIONS OR INSTALLATION SIGNIFICANT OFFSETS.
- COORDINATE ALL REQUIRED OPENINGS THROUGH WALLS, FLOORS, AND ROOFS WITH GENERAL CONTRACTOR AND OTHER TRADES.
- INSTALL EQUIPMENT AND SUPPORTS IN ACCORDANCE WITH ALL RELEVANT BUILDING CODES.
- PROVIDE FLEXIBLE CONNECTION BETWEEN MECHANICAL EQUIPMENT AND DUCTWORK SYSTEMS.
- COORDINATE EXACT DIFFUSER/REGISTER/GRILLE PLACEMENT WITH LIGHTING, SPRINKLERS OR OTHER EQUIPMENT.
- DUCT SIZES SHOWN INDICATE CLEAR INSIDE DIMENSIONS OF DUCTWORK.
- THERMOSTATS AND SWITCHES ARE SHOWN IN GENERAL LOCATIONS. COORDINATE EXACT LOCATION WITH FIELD CONDITIONS.
- INSTALL ALL EXPOSED CONTROL WIRING IN CONDUIT AND IN ACCORDANCE WITH DIVISION 16 REQUIREMENTS.

MEP COORDINATION NOTES

- SPARE 120 VOLT POWER CIRCUIT BREAKER(S) PROVIDED BY DIVISION 16 TO BE USED FOR HVAC CONTROLS. 120 VOLT POWER WIRING TO HVAC CONTROLS PROVIDED BY DIVISION 15. COORDINATE WITH DIVISION 16 CONTRACTOR FOR CIRCUIT BREAKER REQUIREMENTS AND LOCATIONS.
- WIRING AND CONDUIT FOR HVAC CONTROLS SHALL CONFORM TO DIVISION 16 REQUIREMENTS.

ABBREVIATIONS

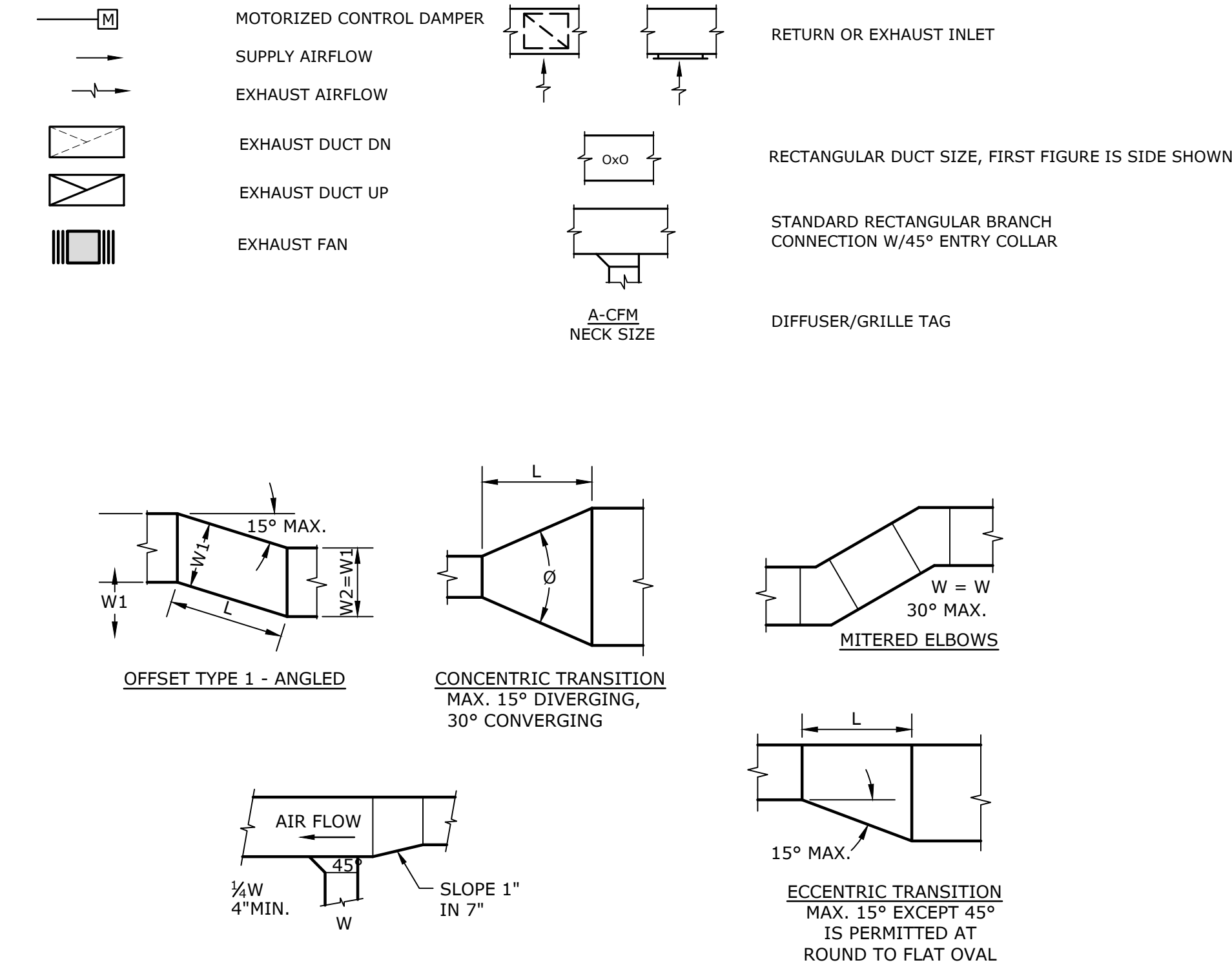
BHP	BREAK HORSE POWER	HZ	HERTZ
CFM	CUBIC FEET PER MINUTE	L	LOUVER OR LENGTH
EA	EXHAUST AIR	M	MOTORIZED
EC	ELECTRONICALLY COMMUTATED	MFR	MANUFACTURER
EF	EXHAUST FAN	PD	PRESSURE DROP
ESP	EXTERNAL STATIC PRESSURE	RLA	RATED LOAD AMPS
EXH	EXHAUST	RPM	REVOLUTIONS PER MINUTE
FT	FEET	SP	STATIC PRESSURE
FA	FREE AREA	SQFT	SQUARE FEET
FPM	FEET PER MINUTE	SS	STAINLESS STEEL
H	HUMIDIFIER OR HEIGHT	W	WIDTH OR WATTS
HP	HEAT PUMP OR HORSE POWER		

GENERAL SYMBOLS

	BOLD LINES AND TEXT INDICATE PROPOSED WORK
	LIGHT LINES AND ITALIZED TEXT INDICATE APPROXIMATE EXISTING CONDITIONS
	HAND/OFF/AUTO SWITCH
	THERMOSTAT (LOCAL SENSOR/NON DDC)

CONTROL SYSTEMS

AIR SYSTEMS



NOTE:
- UNLESS OTHERWISE INDICATED ON PLANS, MAXIMUM ANGLES SHOWN SHALL APPLY.

OFFSETS AND TRANSITION
NO SCALE

Sandy Neck
Beach Facility
Reconfiguration

Town of
Barnstable

Barnstable, MA

0	4/1/2025	BID SET
MARK	DATE	DESCRIPTION
PROJECT NO: B0633-008		
DATE:		
FILE: B0633-008-H-001.dwg		
DRAWN BY: PJL		
DESIGNED/CHECKED BY: PJL/JNR		
APPROVED BY: BSH		
HVAC LEGEND, ABBREVIATIONS, AND DETAILS		
SCALE:		NO SCALE
H-001		

Sandy Neck
Beach Facility
Reconfiguration

Town of
Barnstable

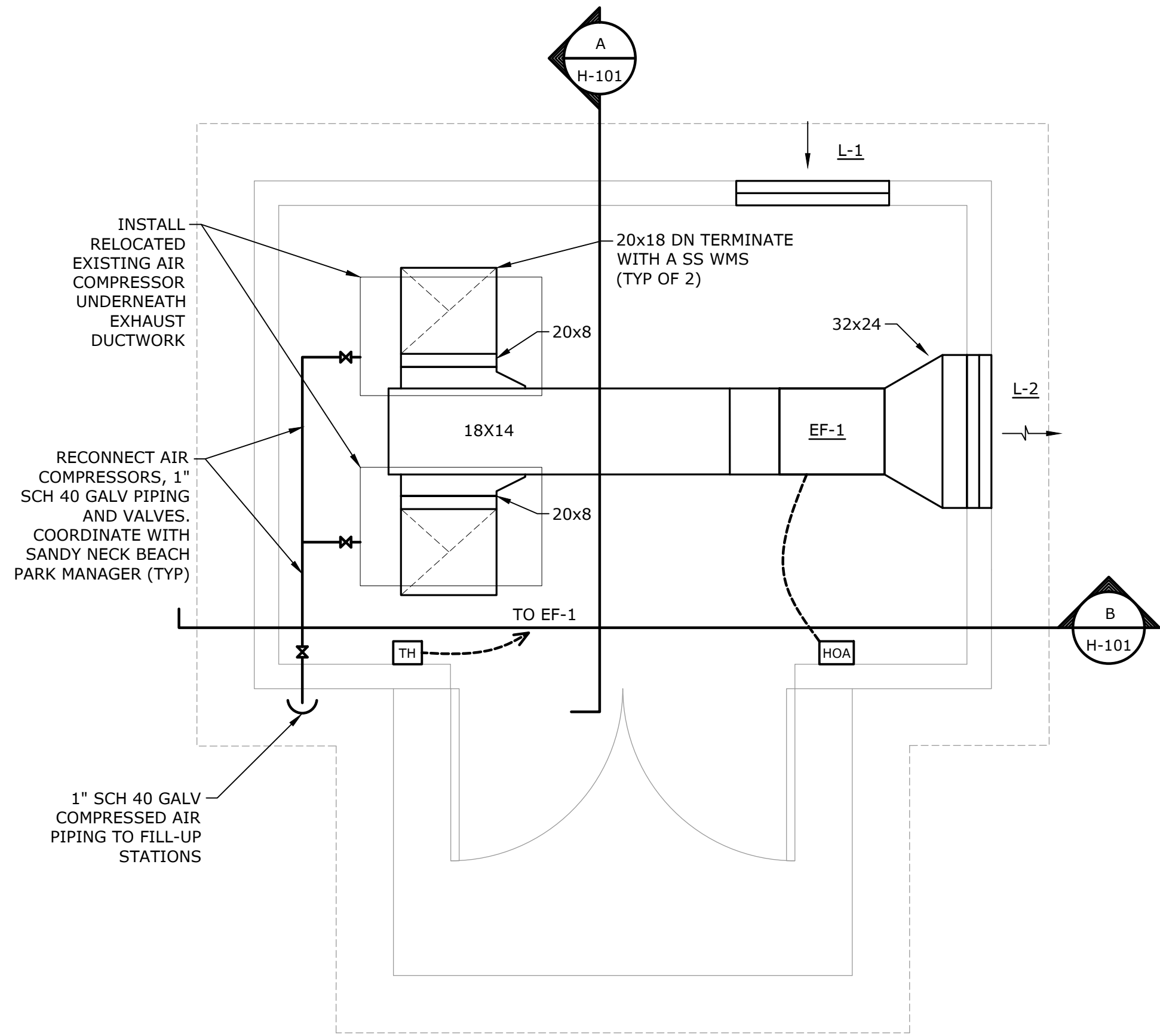
Barnstable, MA

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APPROVED BY:		BSH

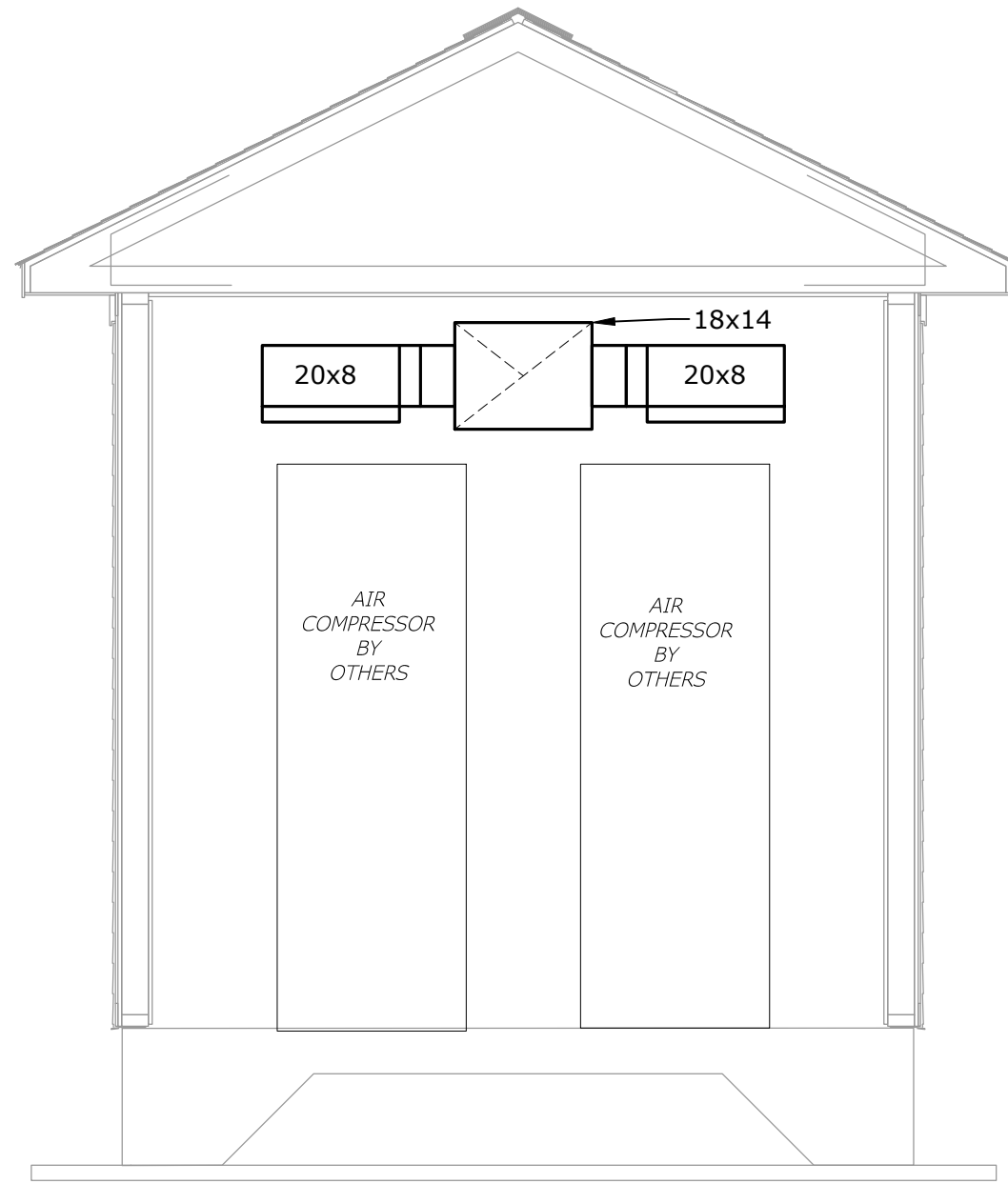
HVAC FLOOR PLAN AND
SCHEDULES

SCALE: 1/2"=1'-0"

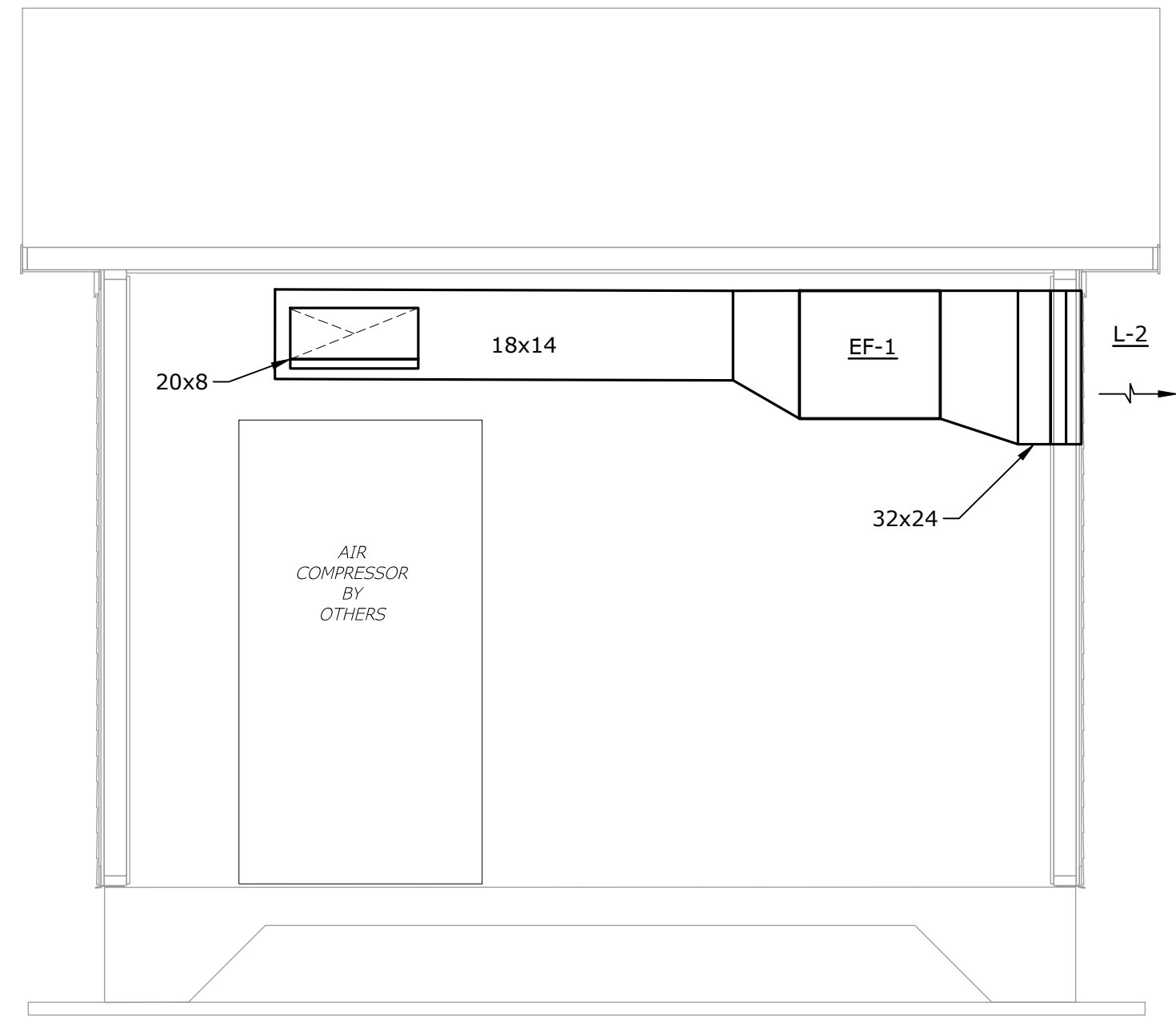
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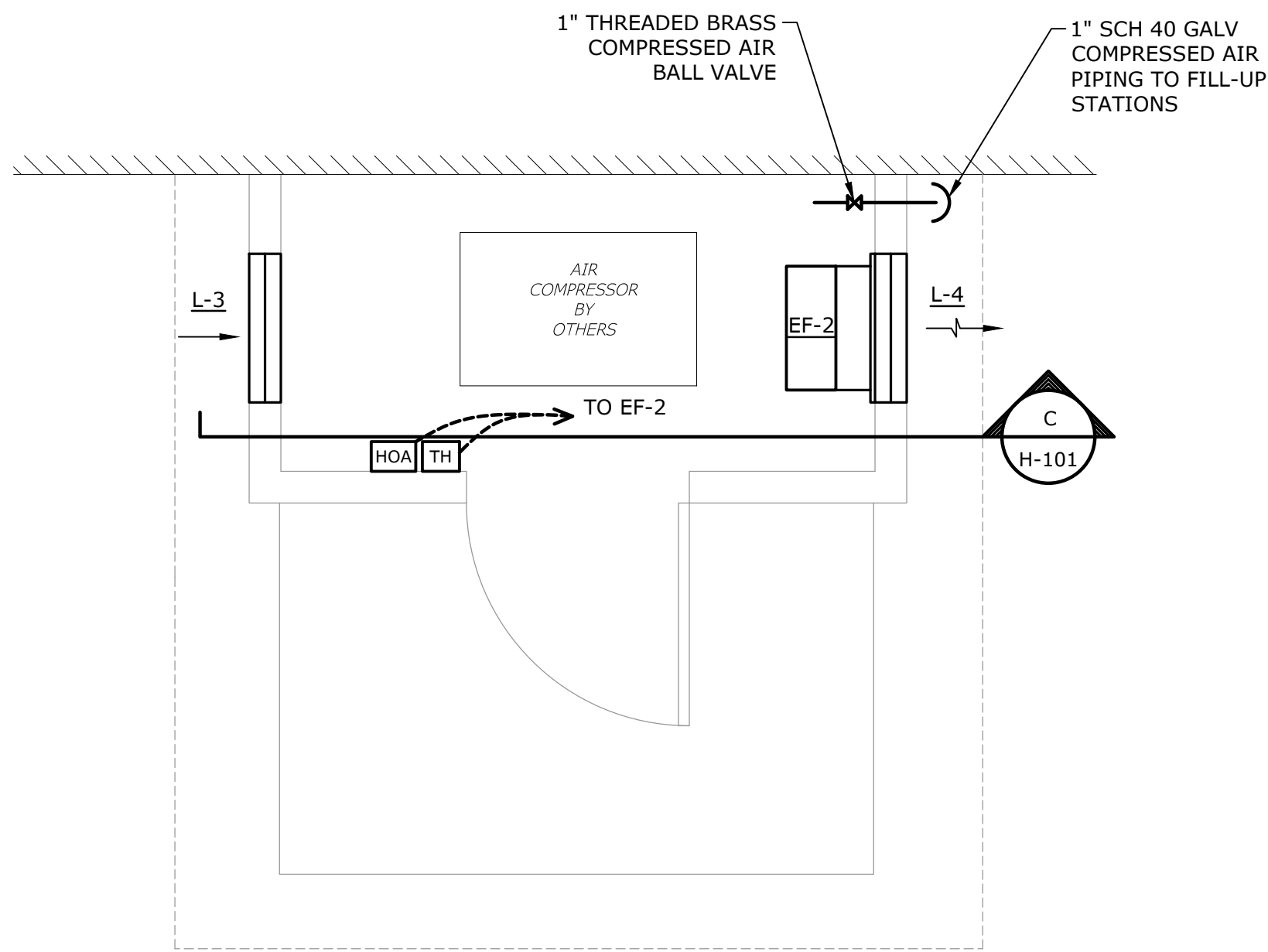
HVAC AIR COMPRESSOR BUILDING - 1
FLOOR PLAN



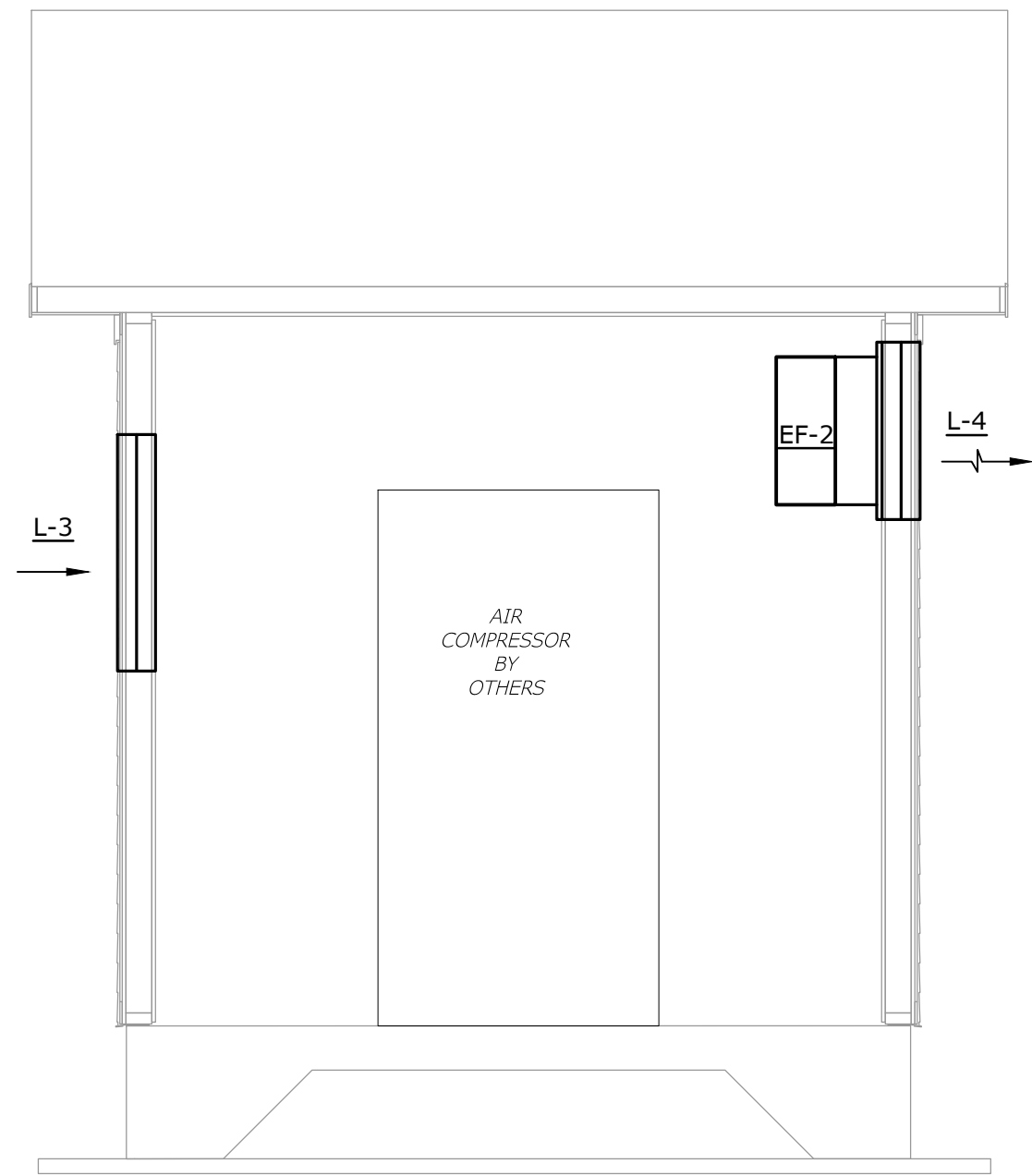
HVAC AIR COMPRESSOR BUILDING - 1
SECTION - A



HVAC AIR COMPRESSOR BUILDING - 1
SECTION - B



HVAC AIR COMPRESSOR BUILDING - 2
FLOOR PLAN



HVAC AIR COMPRESSOR BUILDING - 2
SECTION - C

0 1' 2' 4'
SCALE: 1/2"=1'-0"

GENERAL SYMBOLS

BOLD LINES AND TEXT INDICATE PROPOSED WORK

LIGHT LINES AND ITALIZED TEXT INDICATE APPROXIMATE EXISTING CONDITIONS

SECTION

PHOTOGRAPH LOCATION

EQUIPMENT, STRUCTURES, PIPING AND/OR CONDUIT TO BE DEMOLISHED.

RACEWAYS AND WIRING

HOMERUN TO EQUIPMENT. "L4A1" INDICATES EQUIPMENT ID, "1,3" INDICATES PANELBOARD CIRCUIT NUMBERS, (20A, 1P, UNLESS INDICATED OTHERWISE) SEE DRAWINGS FOR QUANTITY AND SIZE OF WIRE AND CONDUIT. MINIMUM 2#12,#12G, IN ¾"C IF NOT INDICATED OR SCHEDULED OTHERWISE. DASHED LINES INDICATE IN OR UNDER SLAB.

CONDUIT, CONCEALED IN CONSTRUCTION IN FINISHED AREAS, EXPOSED IN UNFINISHED AREAS

UNDERGROUND CONDUIT (SHADING INDICATES CONCRETE ENCASED)

OVERHEAD ELECTRICAL WIRE

CONDUIT IN OR UNDER SLAB

CONDUIT TURNING UP

CONDUIT TURNING DOWN

NOTES:

- GREEN GROUND CONDUCTOR NOT INDICATED BUT SHALL BE INCLUDED IN EACH RACEWAY. SIZE SHALL BE #12AWG UNLESS INDICATED OTHERWISE.
- HOMERUNS TO PANELBOARDS SHALL HAVE A MAXIMUM OF THREE (3) PHASE CONDUCTORS (ONE PER PHASE), (3) NEUTRALS AND (3) GROUND CONDUCTORS IN EACH CONDUIT. DERATE CONDUCTORS AS REQUIRED PER CODE.

FEEDER TAG - REFER TO LEGEND OR TABLE OF FEEDER SIZES

BRANCH CIRCUIT WIRING NOTES

- WIRING IS SHOWN ON DRAWINGS ONLY FOR SPECIFIC ROUTES OR SPECIAL CONDITIONS.
- WIRING AND CONDUIT SHALL BE REQUIRED BETWEEN ALL OUTLETS INDICATED WITH CIRCUIT NUMBERS AND PANEL DESIGNATIONS.
- ALL SWITCH CONTROLS SHALL BE FURNISHED WITH WIRING AND CONDUIT AS REQUIRED.
- ALTHOUGH ALL BRANCH CIRCUIT WIRING AND CONDUIT IS NOT SHOWN, IT IS THE INTENT OF THESE DOCUMENTS THAT A COMPLETE BRANCH CIRCUIT WIRING SYSTEM BE INSTALLED.
- A GREEN GROUNDING CONDUCTOR SHALL BE RUN WITH ALL CIRCUITS. VERIFY CONDUIT SIZE TO ENSURE IT CAN ACCOMMODATE ALL PHASE, NEUTRAL AND GROUND CONDUCTORS.
- ALL BRANCH CIRCUITS SHALL HAVE INDIVIDUAL NEUTRALS AND GROUNDS. BRANCH CIRCUITS SHALL NOT SHARE NEUTRALS OR GROUNDS.

LIGHTING FIXTURES

NUMBERS/LETTERS SHOWN BESIDE LIGHT FIXTURES SHALL INDICATE THE FOLLOWING: "F1" (CAPITAL LETTER(S) OR COMBINATION OF CAPITAL LETTER(S) AND NUMBERS) INDICATES FIXTURE TYPE. "2" (NUMBER OR PANELBOARD NAME AND NUMBER) INDICATES CIRCUIT NUMBER. "a" (LOWERCASE LETTER) INDICATES SWITCH CONTROL OF FIXTURE. "E" INDICATES FIXTURE IS WIRED TO EMERGENCY SYSTEM. "NL" INDICATES FIXTURE IS WIRED AS A NIGHT LIGHT (ALWAYS ON). "PC" INDICATES FIXTURE IS FURNISHED WITH PHOTOCELL CONTROL. "MS" INDICATES FIXTURE IS FURNISHED WITH MOTION SENSOR. "X#" INDICATES HAZARDOUS LOCATION, NUMBER INDICATES SPECIFIC TYPE.

HID OR COMPACT FLUORESCENT PENDANT OR SURFACE MOUNTED LIGHTING FIXTURE

WALL MOUNTED LIGHTING FIXTURE

WALL MOUNTED LIGHTING FIXTURE - WIRED TO THE EMERGENCY LIFE SAFETY SYSTEM

CEILING MOUNTED ILLUMINATED EXIT SIGN, ARROWS AS INDICATED ON DRAWINGS

WALL MOUNTED ILLUMINATED EXIT SIGN, ARROWS AS INDICATED ON DRAWINGS

EMERGENCY BATTERY UNIT

REMOTE EMERGENCY LIGHT HEAD

POLE MOUNTED SITE LIGHTING FIXTURE

BOLLARD STYLE SITE LIGHTING FIXTURE

FLOOD LIGHT - WALL MOUNTED

FLOOD LIGHT - POLE MOUNTED

LED INDUSTRIAL STRIP

WALL MOUNTED OCCUPANCY SENSOR LIGHTING CONTROL, "C" INDICATES CEILING MOUNTED.

MISCELLANEOUS

HANDHOLE

ELECTRICAL PANELBOARD KEY

EDP 4 A 1
NUMBER IN SEQUENTIAL ORDER.
SWITCHBOARD SOURCE OF POWER
VOLTAGE (2) 208, (4) 480
PANEL TYPE (DP) DISTRIBUTION PANEL (L) LIGHTING PANEL (P) POWER PANEL (OS) OPTIONAL STANDBY (E) EMERGENCY

POWER DISTRIBUTION EQUIPMENT

PANELBOARD, SURFACE MOUNTED

UTILITY POLE

RECEPTACLES

MOUNTED AT 18" AFF UNLESS OTHERWISE NOTED. NUMBERS/LETTERS SHOWN BESIDE RECEPTACLES SHALL INDICATED THE FOLLOWINGS: "GFI" INDICATES INTEGRAL GROUND FAULT INTERRUPTER. "2" (NUMBER OR PANELBOARD NAME AND NUMBER) INDICATES POWER CIRCUIT NUMBER.

SIMPLEX RECEPTACLE

DUPLEX RECEPTACLE

DUPLEX RECEPTACLE MOUNTED 6" ABOVE COUNTER TOP.

DOUBLE DUPLEX RECEPTACLE

DOUBLE DUPLEX RECEPTACLE MOUNTED 6" ABOVE COUNTER TOP.

POWER DISTRIBUTION EQUIPMENT

PANELBOARD

MOTOR, "2" INDICATES HORSEPOWER

MAGNETIC MOTOR STARTER

2-SPEED STARTER

NON-FUSED DISCONNECT SWITCH, SIZE AS REQUIRED. "6P" INDICATES 6 POLE.

FUSED DISCONNECT SWITCH. THE DISCONNECT SWITCH RATING SHALL MEET OR EXCEED THE CIRCUIT AMPACITY. "30A" INDICATES FUSE SIZE. FUSE SHALL BE SIZED FOR THE FULL RATING OF THE DISCONNECT SWITCH UNLESS SHOWN OTHERWISE.

COMBINATION MAGNETIC STARTER AND FUSED DISCONNECT SWITCH. SIZE OF STARTER, SWITCH, AND FUSE AS REQUIRED.

DRY-TYPE DISTRIBUTION TRANSFORMER

UTILITY POLE

ABBREVIATIONS

#	WIRE SIZE OR IDENTIFICATION NUMBER	KW	KILOWATTS
A	AMPERES	LSIG	LONG/SHORT TIME, INSTANTANEOUS AND GROUND FAULT SETTINGS (FOR CIRCUIT BREAKER)
AF	AMPERE FRAME (CIRCUIT BREAKER RATING)	MC	MECHANICAL CONTRACTOR
AFF	ABOVE FINISHED FLOOR	MCB	MAIN CIRCUIT BREAKER
AFG	ABOVE FINISHED GRADE	MCC	MOTOR CONTROL CENTER
AIC	AMPERE INTERRUPTING CAPACITY	MISC	MISCELLANEOUS
AL	ALUMINUM	MFR	MANUFACTURER
ARCH	ARCHITECT	MLO	MAIN LUGS ONLY
AS	AMPERE SENSOR (CIRCUIT BREAKER RATING)	NC, NC	NORMALLY CLOSED
AT	AMPERE TRIP (CIRCUIT BREAKER RATING)	NEC	NATIONAL ELECTRICAL CODE
ATS	AUTOMATIC TRANSFER SWITCH	NIC	NOT IN CONTRACT
AWG	AMERICAN WIRE GAUGE	NL	NIGHT LIGHT
BLDG	BUILDING	NO	NORMALLY OPEN
C	CONDUIT	NTS	NOT TO SCALE
CB	CIRCUIT BREAKER	OL	OVERLOAD
CT	CURRENT TRANSFORMER	P	POLE
CAT	CATALOG	PH, Ø	PHASE
CIR, CKT	CIRCUIT	PLC	PROGRAMMABLE LOGIC CONTROLLER
CP	CONTROL PANEL	PVC	POLYVINYL CHLORIDE
CPT	CONTROL POWER TRANSFORMER 480 VOLTS - 120/240 VOLTS, UNLESS OTHERWISE INDICATED	PT	POTENTIAL TRANSFORMER
COL	COLUMN	PVC	POLYVINYL CHLORIDE
Δ	DELTA	R	RECESSED
CU	COPPER	RGS	RIGID GALVANIZED STEEL CONDUIT
DISC SW, DS	DISCONNECT SWITCH	RVNR	REDUCED-VOLTAGE NON-REVERSING
DWG	DRAWING	S	SURFACE
E	WIRED ON EMERGENCY CIRCUIT	SCCR, SCR	SHORT CIRCUIT CURRENT INTERRUPTING RATING
EC	ELECTRICAL CONTRACTOR	SCH 40	SCHEDULE 40 PVC CONDUIT
EM	EMERGENCY	SP	SPARE
EXP	EXPLOSION PROOF	SPD	SURGE PROTECTION DEVICE
F	FLUSH	SS	STAINLESS STEEL
FU	FUSE	SW	SWITCH
FT	FEET	TEL	TELEPHONE
FVNR	FULL VOLTAGE NON-REVERSING	TSP	TWISTED SHIELDED PAIR CABLE
FVR	FULL VOLTAGE REVERSING	TYP	TYPICAL
G	GROUND	UG	UNDERGROUND
GC	GENERAL CONTRACTOR	UPS	UNINTERRUPTABLE POWER SUPPLY
GFI, GFCI	GROUND FAULT CIRCUIT INTERRUPTER	V	VOLT
ID	IDENTIFICATION	VFD	VARIABLE FREQUENCY DRIVE (ALSO REFERED TO AS ADJUSTABLE FREQUENCY DRIVE)
KCMIL, MCM	ONE THOUSAND CIRCULAR MILS	Y	WYE
KVA	KILOVOLT-AMPERES	W	WATT, WIRE
KVAR	KILOVOLT-AMPERES REACTIVE	WTF	WATER TREATMENT FACILITY
		WWTF	WASTEWATER TREATMENT FACILITY
		WP	WEATHERPROOF
		XFMR	TRANSFORMER

ELECTRICAL SHEET LIST

SHEET NUMBER	SHEET TITLE
E-001	ELECTRICAL LEGEND
E-002	ELECTRICAL GENERAL NOTES
E-100	ELECTRICAL OVERALL SITE PLAN
ED-104	ORV ELECTRICAL DEMOLITION PLAN
ED-105	GATEHOUSE/GARAGE ELECTRICAL DEMOLITION PLAN
E-104	ORV ELECTRICAL SITE LAYOUT
E-105	GATEHOUSE/GARAGE ELECTRICAL SITE LAYOUT
E-401	ELECTRICAL PART PLANS
E-501	ELECTRICAL DETAILS
E-601	ELECTRICAL ONELINE & SCHEDULES

Tighe&Bond

Sandy Neck Beach Facility Reconfiguration

Town of Barnstable

Barnstable, MA

0	4/1/2025	BID SET
MARK	DATE	DESCRIPTION
PROJECT NO: B0633-008		
DATE: 6/27/24		
FILE: B0633-008-E-001.dwg		
DRAWN BY: RAK		
DESIGNED/CHECKED BY: RGH/MR		
APPROVED BY: BSH		

ELECTRICAL LEGEND

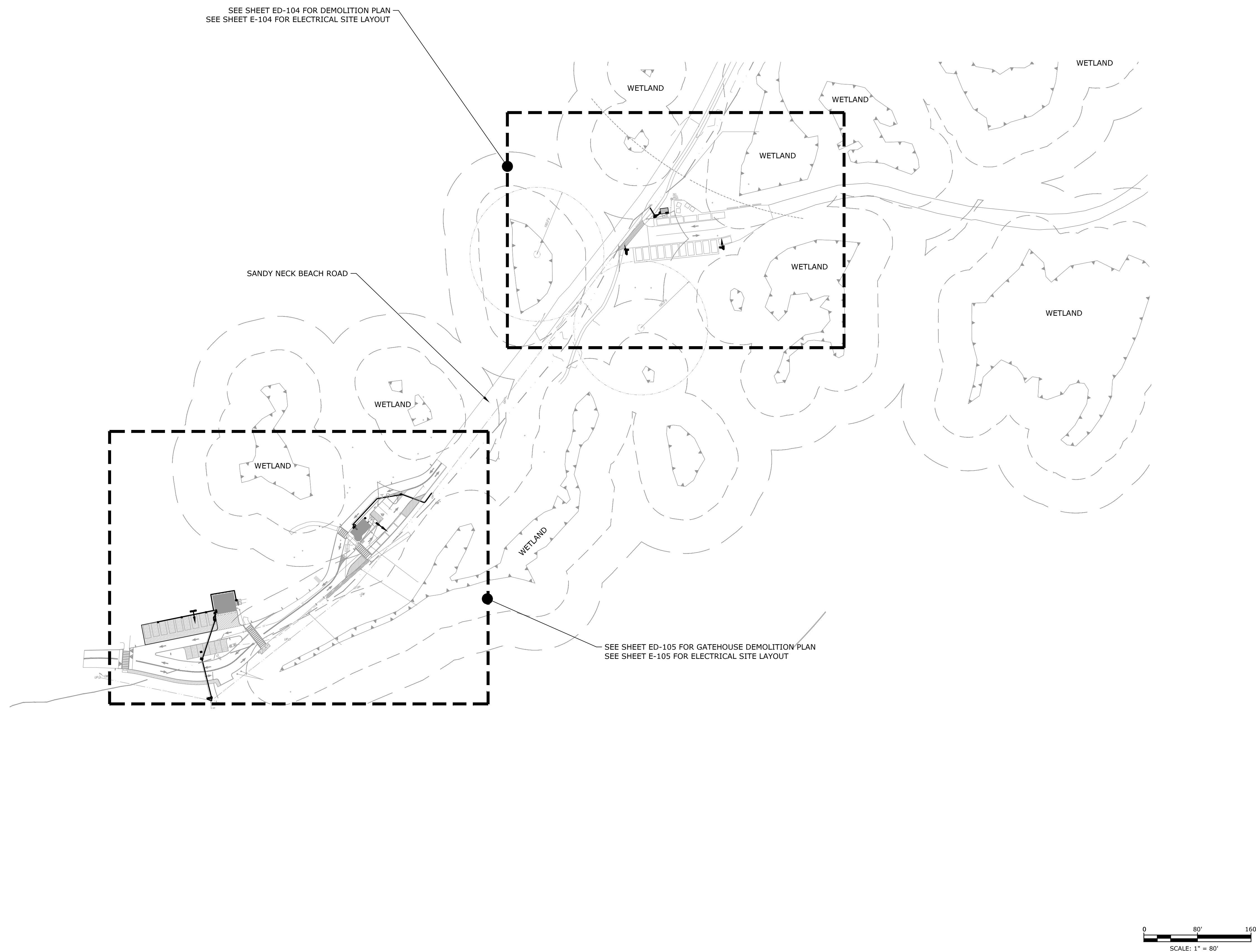
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E-001

0	4/1/2025	BID SET
MARK	DATE	DESCRIPTION
PROJECT NO: B0633-008		
DATE:		9/5/24
FILE: B0633-008-E-100, ED-104, E-104.dwg		
DRAWN BY:		RGH
DESIGNED/CHECKED BY: RGH/MR		
APPROVED BY:		BSH

SCALE: 1" = 80'

Last Saved: 3/18/2025
Plotted On: Mar 27, 2025
Tighe & Bond: J:\B\B063





Sandy Neck Beach Facility Reconfiguration

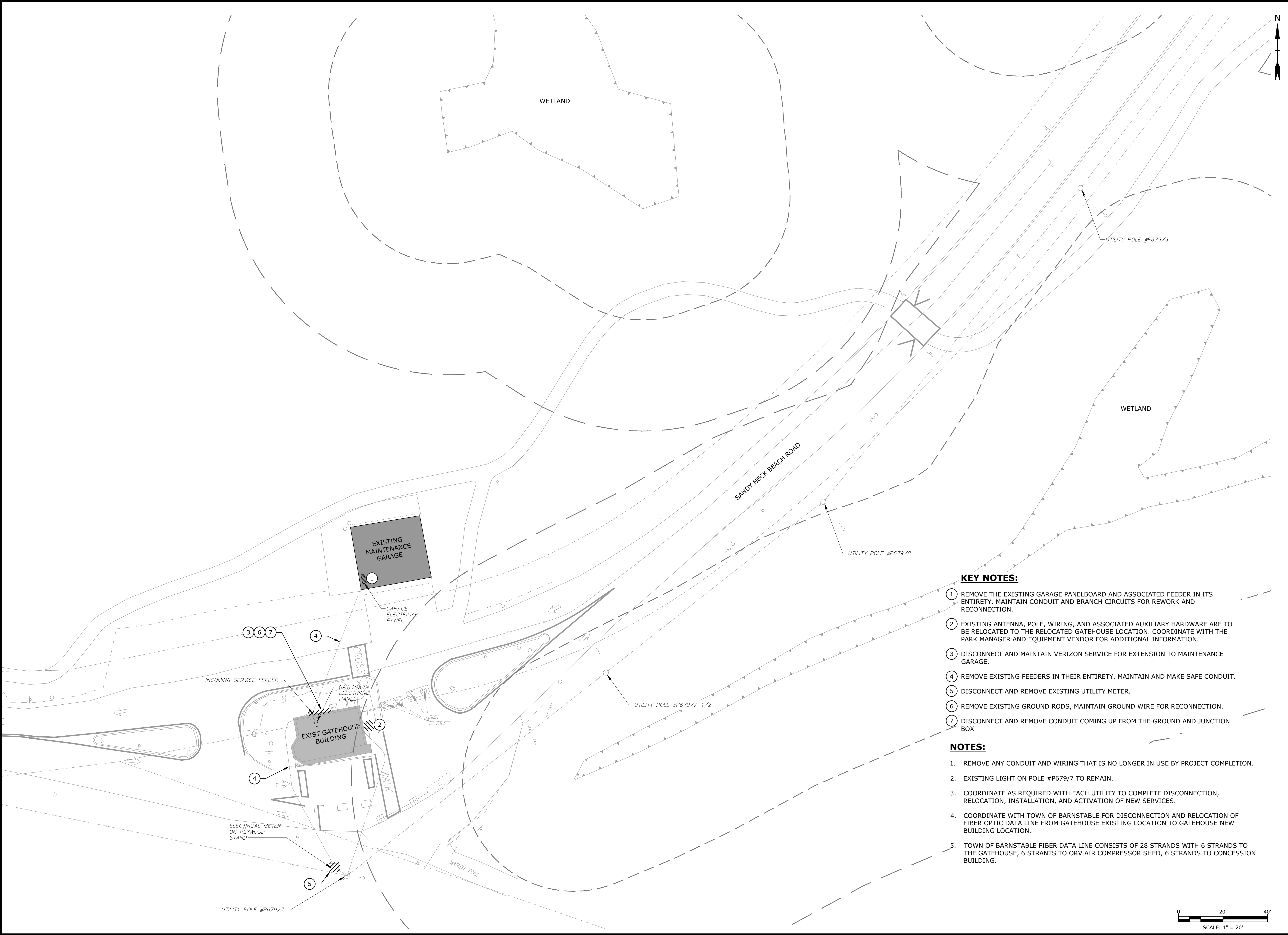
Town of
Barnstable

Barnstable, MA

0	4/1/2025	BID SET
MARK	DATE	DESCRIPTION
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DATE: 06/27/24		
FILE: B0633-008-E-100, ED-104, E-104.dwg		
DRAWN BY: RGH		
DESIGNED/CHECKED BY: RGH/MR		
APPROVED BY: BSH		
ORV ELECTRICAL DEMOLITION PLAN		
SCALE:		1" = 20'
ED-104		

Plot On: Mar 27, 2025
 Plotted On: Mar 27, 2025 12:06pm By: APaoili
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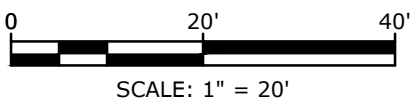


KEY NOTES:

- 1 REMOVE THE EXISTING GARAGE PANELBOARD AND ASSOCIATED FEEDER IN ITS ENTIRETY. MAINTAIN CONDUIT AND BRANCH CIRCUITS FOR REWORK AND RECONNECTION.
- 2 EXISTING ANTENNA, POLE, WIRING, AND ASSOCIATED AUXILIARY HARDWARE ARE TO BE RELOCATED TO THE RELOCATED GATEHOUSE LOCATION. COORDINATE WITH THE PARK MANAGER AND EQUIPMENT VENDOR FOR ADDITIONAL INFORMATION.
- 3 DISCONNECT AND MAINTAIN VERIZON SERVICE FOR EXTENSION TO MAINTENANCE GARAGE.
- 4 REMOVE EXISTING FEEDERS IN THEIR ENTIRETY. MAINTAIN AND MAKE SAFE CONDUIT.
- 5 DISCONNECT AND REMOVE EXISTING UTILITY METER.
- 6 REMOVE EXISTING GROUND RODS, MAINTAIN GROUND WIRE FOR RECONNECTION.
- 7 DISCONNECT AND REMOVE CONDUIT COMING UP FROM THE GROUND AND JUNCTION BOX

NOTES:

- 1. REMOVE ANY CONDUIT AND WIRING THAT IS NO LONGER IN USE BY PROJECT COMPLETION.
- 2. EXISTING LIGHT ON POLE #P679/7 TO REMAIN.
- 3. COORDINATE AS REQUIRED WITH EACH UTILITY TO COMPLETE DISCONNECTION, RELOCATION, INSTALLATION, AND ACTIVATION OF NEW SERVICES.
- 4. COORDINATE WITH TOWN OF BARNSTABLE FOR DISCONNECTION AND RELOCATION OF FIBER OPTIC DATA LINE FROM GATEHOUSE EXISTING LOCATION TO GATEHOUSE NEW BUILDING LOCATION.
- 5. TOWN OF BARNSTABLE FIBER DATA LINE CONSISTS OF 28 STRANDS WITH 6 STRANDS TO THE GATEHOUSE, 6 STRANTS TO ORV AIR COMPRESSOR SHED, 6 STRANDS TO CONCESSION BUILDING.



Tighe&Bond

Sandy Neck Beach Facility Reconfiguration

Town of Barnstable

Barnstable, MA

0	4/1/2025	BID SET
MARK	DATE	DESCRIPTION
PROJECT NO:		B0633-008
DATE:		6/27/24
FILE:		B0633-008-ED-105.dwg
DRAWN BY:		RAK
DESIGNED/CHECKED BY:		RGH/MR
APPROVED BY:		JPV
GATEHOUSE/GARAGE ELECTRICAL DEMOLITION		
SCALE:		AS SHOWN
ED-105		

Town of
Barnstable

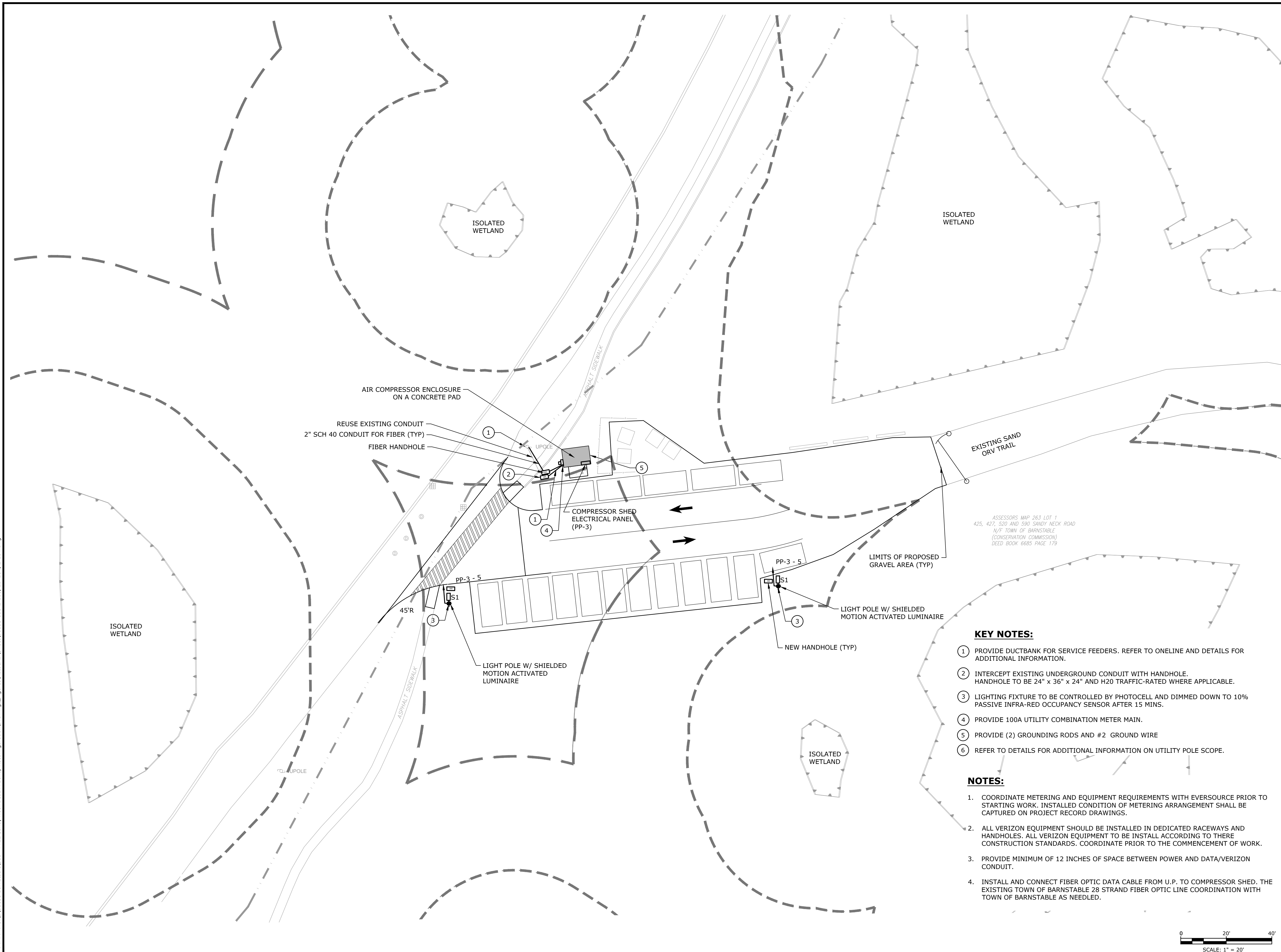
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MARK	DATE	DESCRIPTION
PROJECT NO: B0633-008		
DATE: 9/5/24		
FILE: B0633-008-E-100, ED-104, E-104.dwg		
DRAWN BY: RGH		
DESIGNED/CHECKED BY: RGH/MR		
APPROVED BY: BSH		

ORV ELECTRICAL SITE LAYOUT

SCALE: 1" = 20'

E-104

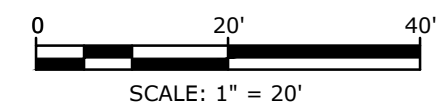


Town of
Barnstable

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GATEHOUSE/GARAGE ELECTRICAL SITE LAYOUT

E-105



- 1 PROVIDE DUCTBANK FOR SERVICE FEEDER FEEDERS. REFER TO ONELINE AND DETAILS FOR ADDITIONAL INFORMATION.
- 2 PROVIDE SERVICE FEEDER IN EXISTING CONDUIT SYSTEM.
- 3 INTERCEPT EXISTING UNDERGROUND CONDUIT WITH HANDHOLE. HANDHOLE TO BE 24" x 36" x 24" AND H20 TRAFFIC-RATED WHERE APPLICABLE.
- 4 LIGHTING FIXTURE TO BE CONTROLLED BY PHOTOCELL AND DIMMED DOWN TO 10% PASSIVE INFRA-RED OCCUPANCY SENSOR AFTER 15 MINS. SEE DETAILS FOR ADDITIONAL INFORMATION.
- 5 PROVIDE (2) GROUNDING RODS AND RECONNECT EXISTING GROUNDING WIRE.
- 6 PROVIDE NEMA 4X JUNCTION BOX TO CONNECT NEW SERVICE TO EXISTING ELECTRICAL SYSTEM.
- 7 PROVIDE 100A UTILITY COMBINATION METER MAIN.
- 8 PROVIDE (2) GROUNDING RODS AND #2 GROUND WIRE
- 9 REFER TO DETAILS FOR ADDITIONAL INFORMATION ON UTILITY POLE SCOPE.
- 10 LIGHT BOLLARDS TO BE PLACE ON A LIGHTING CONTROL PANEL BASED ON EZ-MAX H OR EQUIPMENT. CONTROLS SHOULD BE PROGRAMMED TO HAVE DAYLIGHT SENSING AND HOUR OF OPERATION.
- 11 CAP EACH TEL/CABLE/DATA CONDUIT IN HANDHOLES FOR FUTURE SERVICE INSTALLATION.

1. COORDINATE METERING AND EQUIPMENT REQUIREMENTS WITH EVERSOURCE PRIOR TO STARTING WORK. INSTALLED CONDITION OF METERING ARRANGEMENT SHALL BE CAPTURED ON PROJECT RECORD DRAWINGS.
2. ALL VERIZON EQUIPMENT SHOULD BE INSTALLED IN DEDICATED RACEWAYS AND HANDHOLES. ALL VERIZON EQUIPMENT TO BE INSTALL ACCORDING TO VERIZON CONSTRUCTION STANDARDS. COORDINATE WITH VERIZON PRIOR TO THE COMMENCEMENT OF WORK.
3. PROVIDE MINIMUM OF 12 INCHES OF SPACE BETWEEN POWER AND DATA/VERIZON/CABLE CONDUIT.
4. INSTALL AND CONNECT FIBER DATA CABLE FROM U.P. TO GATEHOUSE DATA CABINET COORDINATION WITH TOWN OF BARNSTABLE AS NEEDED.

Sandy Neck
Beach Facility
Reconfiguration

Town of
Barnstable

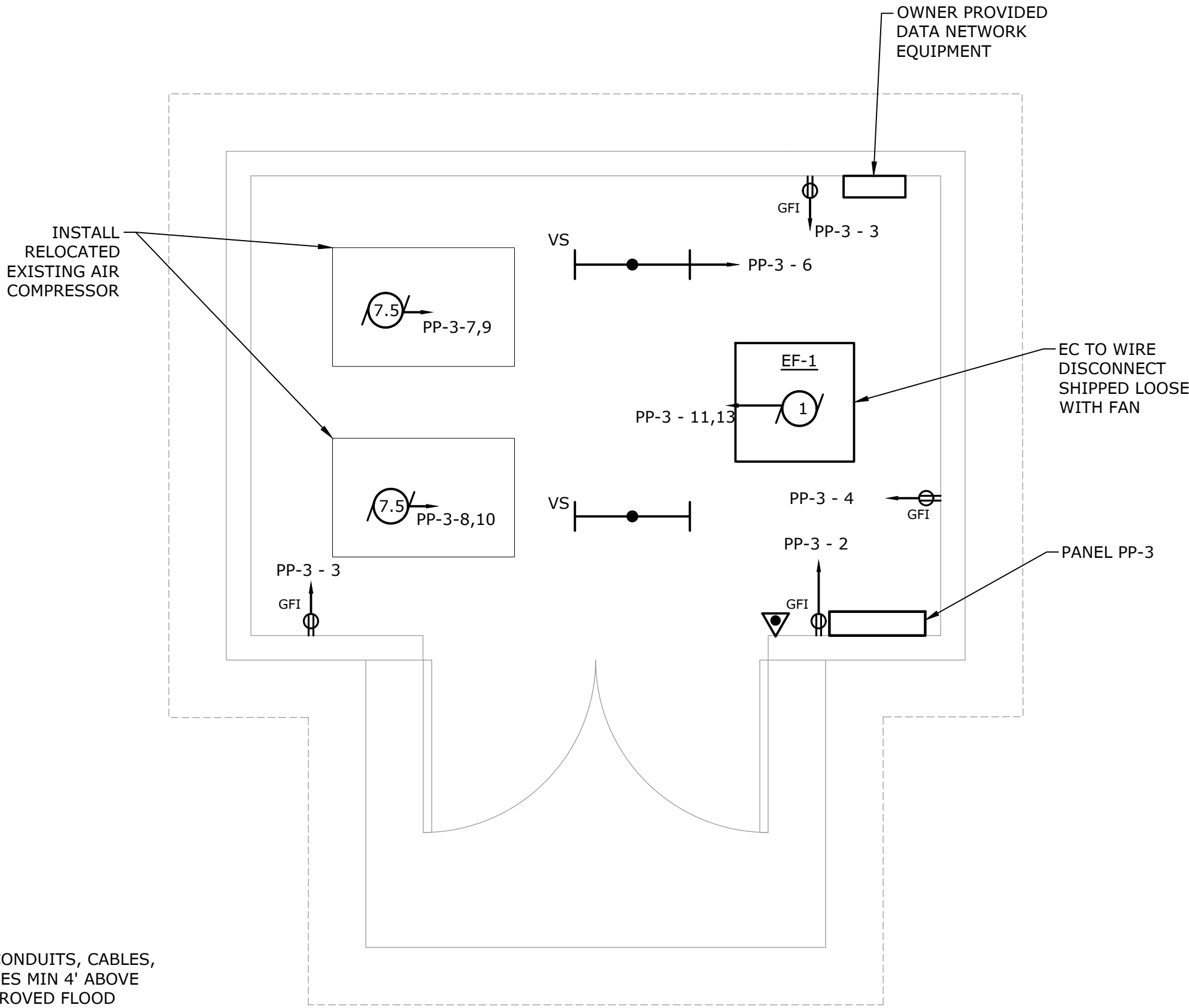
Barnstable, MA

0	4/1/2025	BID SET
MARK	DATE	DESCRIPTION
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DATE:		
FILE:		B0633-008-E-401.dwg
DRAWN BY:		RGH
DESIGNED/CHECKED BY:		RGH/MR
APPROVED BY:		B5H

ELECTRICAL PART PLANS

SCALE: 1/2"=1'-0"

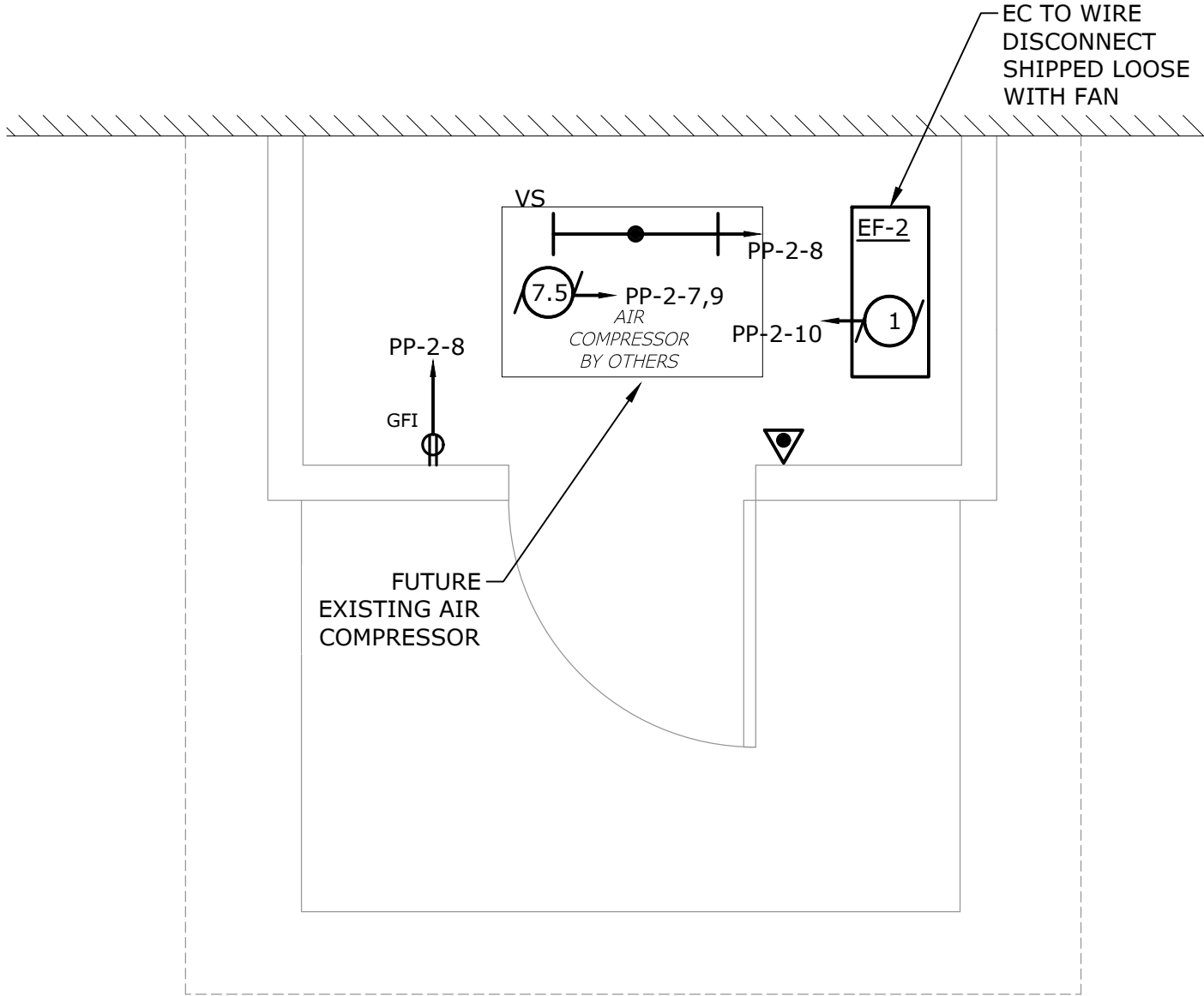
E-401



NOTE:

1. INSTALL ALL PANELS, CONDUITS, CABLES, OUTLETS, AND SWITCHES MIN 4' ABOVE FINISH FLOOR FOR IMPROVED FLOOD PROTECTION.

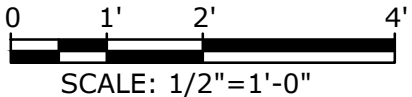
AIR COMPRESSOR BUILDING - 1
FLOOR PLAN



NOTE:

1. INSTALL ALL PANELS, CONDUITS, CABLES, OUTLETS, AND SWITCHES MIN 4' ABOVE FINISH FLOOR FOR IMPROVED FLOOD PROTECTION.

AIR COMPRESSOR BUILDING - 2
FLOOR PLAN



1. ALL DIMENSIONS ARE IN NOMINAL FEET OR INCHES.
2. TOP OF FOUNDATION SHALL BE TROWELLED SMOOTH AND LEVEL.
3. CLASS OF CONCRETE SHALL BE 3000 P.S.I. CONCRETE SHALL BE VIBRATED.
4. CONTRACTOR TO VERIFY OPENING SIZE IN POLE BASE PLATE PRIOR TO SETTING CONDUIT SLEEVES.
5. SUBJECT TO SOIL CONDITIONS, REFER TO GEOTECH REPORT.
6. LOCATE EDGE OF POLE BASE 3'-0" TO EDGE OF PAVEMENT/WALKWAY.

Technical drawing showing a cross-section of a light fixture foundation. The drawing includes a table of dimensions and a detailed cross-section view.

25	7	H + 6.5
29	8	H + 7.5
30	8	H + 7.5
35	8.5	H + 8.0
40	9	H + 8.5
45	9.5	H + 9.0
50	10	H + 9.5

Labels and dimensions in the cross-section view:

- POLE BASE COVER
- LOCK NUTS
- LEVELING NUTS (SD-226)
- CAST-IN-PLACE CONCRETE BASE
- FIBER FORM
- FINISHED GRADE
- GALVANIZED STEEL "J" BOLTS SUPPLIED BY LIGHT FIXTURE MANUFACTURER
- (8) #6 REINF. BARS AND #4 TIES
- (2) 1-1/2" PVC CONDUIT
- 24" DIA.
- 24" (H)
- 24" DIA.

LIGHTING HAND HOLE WITH OPEN BOTTOM 17"W x 30"L x 12"D MINIMUM (INSIDE CLEARANCE) WITH LOGO ON COVER PER SPECIFICATIONS. PROVIDE SPYNERTECH BY OLD CASTLE OR APPROVED EQUAL.

24" (H)

CAST-IN-PLACE CONCRETE BASE

FIBER FORM

FINISHED GRADE

GALVANIZED STEEL "J" BOLTS AS SUPPLIED BY LIGHT FIXTURE MANUFACTURER

(8) #6 REINF. BARS AND #4 TIES

24"DIA.

'LHH'

STUB MAX. 3" INTO HAND HOLE

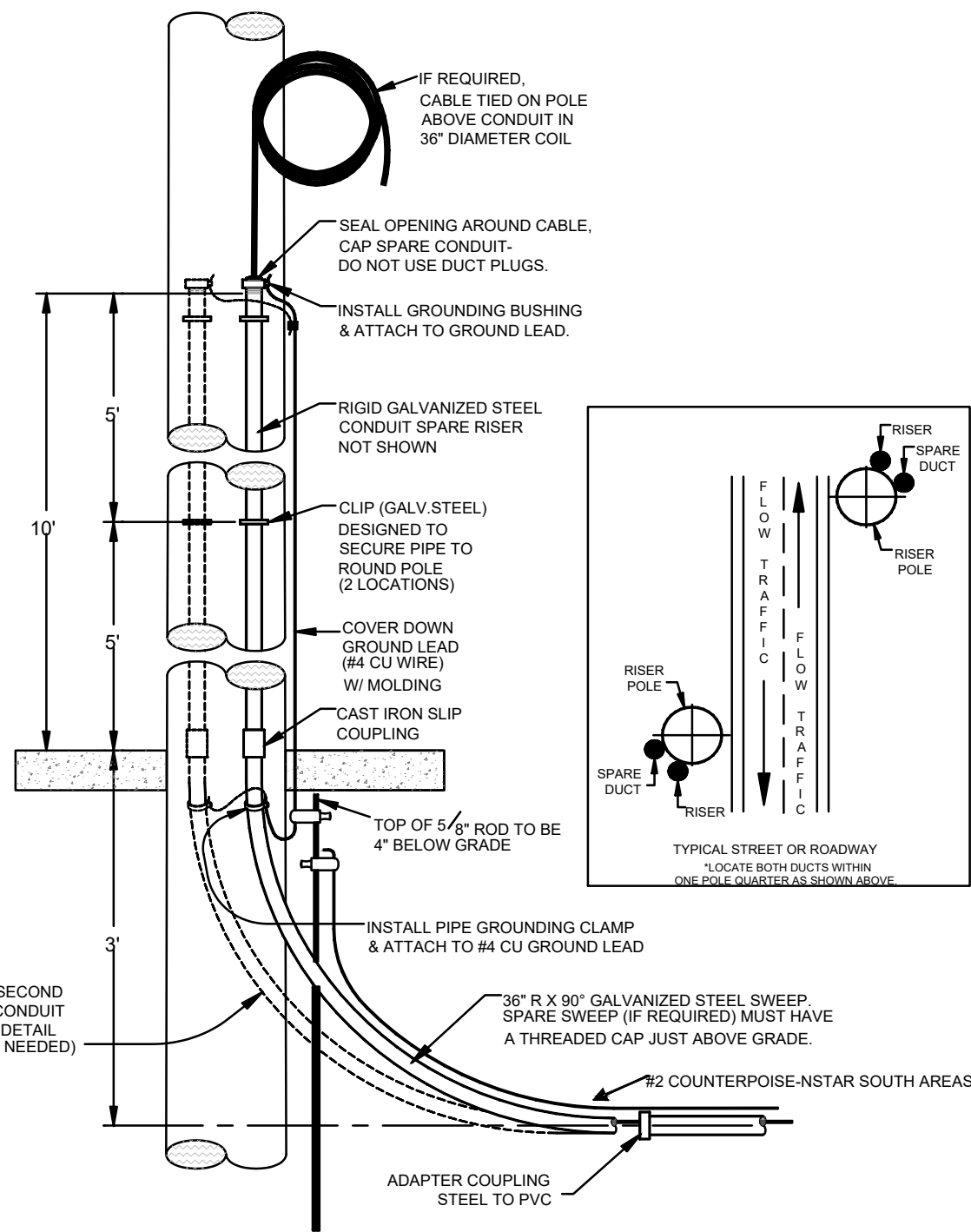
(2) 1 1/2" PVC CONDUIT PIPE

(2) 1 1/2" PVC CONDUIT

(2) 1-1/2" PVC CONDUIT. PROVIDE 12/2 UF CABLE FROM "LHH" TO FIXTURE.

NOTES:

1. NSTAR SOUTH AREAS ONLY - #2 BARE COPPER WIRE (DIRECT BURIED COUNTERPOISE) SHALL CONNECT RISER POLE GROUND TO THE FIRST PAD/SWITCH/MANHOLE GROUNDING RING.
2. EXOTHERMIC CONNECTIONS (CADWELD) ARE ACCEPTABLE FOR BURIED CONNECTIONS.



GRADE

CONTINUOUS MARKER TAPE OVER EDGES OF DUCTBANK (TYP)

12"

36" (MIN)

3"

3"

3"

3"

4

CONDUIT, SEE NOTE 6 (TYP)

CONCRETE, SEE NOTE 4

CONDUIT SPACERS, SEE NOTE 3

#5 REBAR, SEE NOTE 5

GRADE

CONTINUOUS MARKER TAPE OVER EDGES OF DUCTBANK (TYP)

12"

12"

36" (MIN)

3"

1

2

3"

3"

CONDUIT, SEE NOTE 6 (TYP)

CONCRETE, SEE NOTE 4

CONDUIT SPACERS, SEE NOTE 5

#5 REBAR, SEE NOTE 5

GRADE

CONTINUOUS MARKER TAPE OVER EDGES OF DUCTBANK (TYP)

Diagram illustrating the layout of conduits in a trench. The trench is defined by a hatched area labeled "GRADE". The trench depth is indicated as 36" (MIN). The trench width is 12". The conduits are arranged in a 2x2 grid. The center-to-center spacing between conduits is 3". The conduit diameter is 3". The conduit is labeled "CONDUIT, SEE NOTE 6 (TYP)". The concrete is labeled "CONCRETE, SEE NOTE 4". The conduit spacers are labeled "CONDUIT SPACERS, SEE NOTE 3". The #5 rebar is labeled "#5 REBAR, SEE NOTE 5".

1. UNLESS OTHERWISE INDICATED ON DRAWINGS, ELECTRICAL DUCT BANK CONCRETE ENCASING SHALL BE CONTINUOUS ALONG THE ENTIRE LENGTH OF THE DUCT BANK.
2. WHERE CONCRETE ENCASING IS NOT SHOWN FOR DUCT BANKS, PROVIDE STONE BORROW PER SPECIFICATION SECTION 02320.
3. E.C. SHALL PROVIDE CONDUIT SPACERS 5'-0" ON CENTER, AS MANUFACTURED BY UNDERGROUND DEVICES, INC.:
 - a. L=2" SCHEDULE 40 PVC CONDUIT REQUIRES CONDUIT SPACER AT 5'-0" ON CENTER, BY U-D INC., P/N 2W20-2 (OR -3).
 - b. 4" SCHEDULE 40 PVC CONDUIT REQUIRES CONDUIT SPACER AT 5'-0" ON CENTER, BY U-D INC., P/N 4W30-2 (OR -3).
 - c. 5" SCHEDULE 40 PVC CONDUIT REQUIRES CONDUIT SPACER AT 5'-0" ON CENTER, BY U-D INC., P/N 5W30-2 (OR -3).
 - d. 6" SCHEDULE 40 PVC CONDUIT REQUIRES CONDUIT SPACER AT 5'-0" ON CENTER, BY U-D INC., P/N 6W30-2 (OR -3).
4. CONCRETE SHALL BE PRE-MIX 2,500 P.S.I. 6" SLUMP LEAN CONCRETE, WITH RED DYE ADDED TO MIXTURE, CONCRETE BY ELECTRICAL CONTRACTOR.
5. #5 REBAR SHALL BE PLACED CONTINUOUS ALONG DUCTBANK (MINIMUM OF 4), WITH A MINIMUM 3" COVER ALONG BOTTOM SIDE, AND 3" COVER ALONG REMAINING THREE SIDES.
6. CONDUIT USAGE SHALL BE AS FOLLOWS:
 - ① SCHEDULE 40 PVC CONDUIT - UTILITY SECONDARY - 240/120V
 - ② SCHEDULE 40 PVC CONDUIT - CABLE TV
 - ③ SCHEDULE 40 PVC CONDUIT - VERIZON
 - ④ SCHEDULE 40 PVC CONDUIT - UNDERGROUND LIGHTING

Diagram illustrating the cross-section of a handhole assembly, showing dimensions and components:

- FINISHED GRADE**: The top surface of the assembly.
- FRAME & COVER FLUSH WITH GRADE**: The top structure of the handhole.
- H-20 RATED CONCRETE HANDHOLE**: The main body of the handhole.
- 3" MIN**: Minimum height of the handhole body.
- 6" MIN**: Minimum height of the base layer.
- 3" MAX**: Maximum height of the base layer.
- 1 1/2" FREE DRAINING STONE**: The base layer material.
- CONTINUOUS MARKER TAPE 12" ABOVE CONDUIT PATH (TYP)**: The marker tape above the conduits.
- 12"**: Vertical distance from the marker tape to the top of the conduits.
- (1) SCHEDULE 40 PVC CONDUIT (TYP)**: The conduits passing through the handhole.

Diagram illustrating the assembly of a power handhole cover. The cover is labeled "POWER" and features a power handhole with custom cover labeled "POWER". The assembly includes a barrier centered in the handhole, affixed to the cover with a resin sheet. The barrier is made of stainless steel hardware, with a minimum gap between the power and data/security sides. The barrier is connected to the next handhole via a conduit to the next handhole. The power conduit is also connected to the next handhole.

1. COORDINATE WITH SITE ELECTRICAL PLANS. CONDUIT TYPES SHOWN ARE TYPICAL. PROVIDE CONDUIT ENTRIES AND QUANTITIES AS SHOWN ON SITE PLANS.
2. CONTRACTOR SHALL SIZE HAND HOLE PER NEC REQUIREMENTS.
3. SPLICE CONDUCTORS (INCLUDING GROUNDING CONDUCTORS) IN HANDHOLE WITH SILICONE FILLED CONNECTORS RATED FOR UNDERGROUND. USE IDEAL #30-066 OR EQUAL FOR #6 OR SMALLER SPLICES. USE ILSCO PDSS OR EQUAL UNDERGROUND RATED LUGS FOR LARGER SPLICES.

Technical drawing of a bollard base showing top and side views with dimensions and labels.

Labels:

- BOLLARD BASE COVER
- LOCK NUTS
- LEVELING NUT
- CAST-IN-PLACE CONCRETE BASE
- FIBER FORM
- FINISHED GRADE
- "J" BOLTS AS SUPPLIED BY BOLLARD FIXTURE MANUFACTURER
- (1) 1-1/2" PVC CONDUIT

Dimensions:

- 12" DIA. (Top view diameter)
- 4" (H) (Side view height of the base cover)
- 36" (Side view height of the concrete base)
- 48" (Side view total height)
- 12" DIA. (Bottom view diameter)

0	4/1/2025	BID SET
MARK	DATE	DESCRIPTION
PROJECT NO: B0633-008		
DATE: 6/27/24		
FILE: B0633-008-E-601.dwg		
DRAWN BY: RAK		
DESIGNED/CHECKED BY: RGH		
APPROVED BY: BSH		

ELECTRICAL ONE-LINE
DIAGRAMS AND SCHEDULES

SCALE: NO SCALE

E-601

		VOLTAGE (L-L): 240 PHASE: 1 WIRE: 3 VA, L1 0		PANEL NO. GATEHOUSE PANEL (PP-1)							
		VOLTAGE (L-N): 120		VA, L2 0							
		MAIN BUS: 100 AMPS		LOCATION: GATEHOUSE							
		MAIN BREAKER: 100 A FRAME A TRIP		NOTES: EXISTING TO REMAIN							
		MOUNTING: SURFACE KAIC: 10 TOTAL VA 0									
		INCOMING FEEDER SIZE: 3#2 & 1#2G, 2"C									
WIRE SIZE	CONDUIT SIZE	VA LOAD				VA LOAD				CONDUIT SIZE	WIRE SIZE
		L1 L2		CKT.	AMPS	L2 L1					
		DIRECTORY						DIRECTORY			
2#12 & 1#12G	3/4"	EXISTING LOAD		1	15	20	2	EXISTING LOAD		3/4"	2#12 & 1#12G
2#12 & 1#12G	3/4"	EXISTING LOAD		3	15	20	4	EXISTING LOAD		3/4"	2#12 & 1#12G
2#12 & 1#12G	3/4"	EXISTING LOAD		5	15	20	6	EXISTING LOAD		3/4"	2#12 & 1#12G
2#12 & 1#12G	3/4"	EXISTING LOAD		7	15	18	8			-	-
2#12 & 1#12G	3/4"	EXISTING LOAD		9	15	20	10	EXISTING LOAD		3/4"	2#12 & 1#12G
2#12 & 1#12G	3/4"	EXISTING LOAD		11	15	12	12			-	-
3#10 & 1#10G	3/4"	EXISTING LOAD		13	30	30	14	EXISTING LOAD		3/4"	3#10 & 1#10G
-	-			15	15	16	16			-	-
2#12 & 1#12G	3/4"	EXISTING LOAD		17	15	20	18	BOLLARD LIGHTING VIA TIME CLOCK		3/4"	2#12 & 1#12G
2#12 & 1#12G	3/4"	EXISTING LOAD		19	15	20	20	Site LIGHTING		3/4"	2#12 & 1#12G