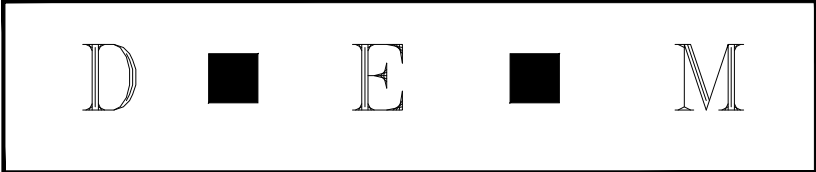


INDEX OF DRAWINGS

Sheet No.	Sheet Title	Rev. No.	Rev. Date
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G-002	GENERAL NOTES		
C-101	CONSTRUCTION ACCESS PLAN		
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S-501	PROPOSED PIER I DETAILS		

STATE OF RHODE ISLAND



DEPARTMENT OF ENVIRONMENTAL MANAGEMENT
DIVISION OF PLANNING AND DEVELOPMENT

PIER 'I' REMOVAL AND REPLACEMENT
PORT OF GALILEE: PHASE IV

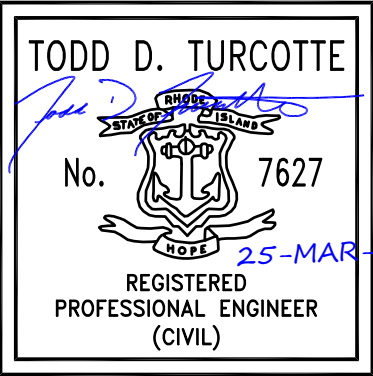
NARRAGANSETT, RHODE ISLAND
Pare Project No. 23153.01



PARE CORPORATION
ENGINEERS - SCIENTISTS - PLANNERS
8 BLACKSTONE VALLEY PLACE
LINCOLN, RI 02865
401-334-4100
10 LINCOLN ROAD, SUITE 210
FOXBORO, MA 02035
508-543-1755
14 BOBALA ROAD, SUITE 2B
HOLYOKE, MA 01040
413.507.3448



Locus Map
Scale: 1"=500'



REVISIONS		
NO.	DESCRIPTION	DATE
A	30% DESIGN IFCR	1/10/2025
B	ISSUED FOR PERMIT	3/14/2025

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NOT FOR CONSTRUCTION
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3/26/2025
RECEIVED
DEPARTMENT OF ENVIRONMENTAL MANAGEMENT
DIVISION OF PLANNING AND DEVELOPMENT
NARRAGANSETT, RHODE ISLAND
PIER 'I' REMOVAL AND REPLACEMENT
PORT OF GALILEE: PHASE IV
PARE PROJECT NO. 23153.01
MARCH 2025

FOR THE PURPOSE OF THIS PROJECT

OWNER -	DEPARTMENT OF ENVIRONMENTAL MANAGEMENT, STATE OF RHODE ISLAND 235 PROMENADE STREET, FL. 3 PROVIDENCE, RI 02908
ENGINEER -	PARE CORPORATION 10 LINCOLN ROAD, SUITE 210 FOXBORO, MA 02035
CONTACT -	TODD D TURCOTTE, PE

2. ALL CONSTRUCTION INDICATED ON THESE PLANS SHALL BE PERFORMED IN ACCORDANCE WITH THE LATEST EDITION OF THE RHODE ISLAND STATE BUILDING CODE, ALL FEDERAL AND MUNICIPAL BUILDING CODES, AND THE SPECIFICATIONS INCLUDED IN THIS CONTRACT.

3. THE PROJECT SITE IS A WORKING COMMERCIAL FISHING PORT WITH LIMITED SHORESIDE ACCESS. THE CONTRACTOR SHALL COORDINATE WITH THE OWNER TO REDUCE THE IMPACT TO FISHING OPERATIONS.

4. CONTRACTOR IS SOLELY RESPONSIBLE FOR MEANS, METHODS, AND SAFETY OF WORK.

5. THE CONTRACTOR SHALL COORDINATE ALL ACTIVITIES WITH THE LEASE TENANTS THAT WILL BE IMPACTED BY DEMOLITION AND CONSTRUCTION, INCLUDING TEMPORARY REMOVAL AND REPLACEMENT OF ANY EQUIPMENT OR MATERIALS OWNED BY THE TENANTS THAT WILL BE AFFECTED BY THE WORK. (OWNER WILL BE NOTIFIED OF ANY WORK REQUIRED BY LEASE HOLDER IN ORDER FOR CONTRACTOR TO PERFORM WORK)

6. HORIZONTAL DATUM: RHODE ISLAND STATE PLANE - NAD83
VERTICAL DATUM: NORTH AMERICAN VERTICAL DATUM - NAVD88

7. THE CONTRACTOR SHALL BE RESPONSIBLE FOR VERIFYING ALL DIMENSIONS. PLANS SHALL NOT BE SCALED FOR DIMENSIONS.

8. NOTES, TYPICAL DETAILS, AND SCHEDULES APPLY TO ALL WORK UNLESS OTHERWISE NOTED. FOR CONDITIONS NOT SPECIFICALLY SHOWN, PROVIDE DETAILS OF SIMILAR NATURE.

9. THE CONTRACTOR SHALL BE RESPONSIBLE FOR DISPOSAL OF ALL PROJECT DEMOLITION AND EXCESS MATERIAL IN ACCORDANCE WITH RHODE ISLAND, LOCAL, AND FEDERAL LAWS.

10. THE CONTRACTOR SHALL PROTECT ALL ADJACENT STRUCTURES AND UTILITIES.

11. THE CONTRACTOR SHALL FOLLOW ALL OSHA, FEDERAL, STATE, AND LOCAL STANDARDS. THE CONTRACTOR SHALL BE SOLELY RESPONSIBLE FOR ALL SITE SAFETY PROCEDURES AND PRACTICES REGARDLESS OF THE PRESENCE OF THE OWNER OR ENGINEER.

12. THE CONTRACTOR WILL SUBMIT A CONSTRUCTION SCHEDULE TO THE OWNER. THE CONTRACTOR WILL UPDATE SCHEDULE AS NEEDED THROUGHOUT THE COURSE OF WORK.

13. THE CONTRACTOR SHALL STAGE ALL EQUIPMENT IN THE DESIGNATED STAGING AREAS. ALL GREASING AND REFUELING ACTIVITIES SHALL OCCUR IN THE STAGING AREAS. ALL NECESSARY MEASURES SHALL BE TAKEN TO PREVENT BY ANY METHOD, OIL, CONSTRUCTION DEBRIS, STOCKPILED MATERIALS, AND OTHER MATERIALS ON THE SITE, FROM ENTERING THE WATERWAY. STAGING/LAYDOWN AREAS SHALL BE RESTORED BY THE CONTRACTOR TO THE EXISTING CONDITION. IN ADDITION, THE CONTRACTOR SHALL REPLACE ALL DAMAGED MATERIALS AS A RESULT OF HIS OPERATIONS, TO THE SATISFACTION OF THE ENGINEER.

14. THE CONTRACTOR SHALL TAKE ALL NECESSARY PRECAUTIONS TO PREVENT ALL CONSTRUCTION DEBRIS OR WASTE FROM FALLING INTO THE WATER. ANY DEBRIS FALLING INTO THE WATER SHALL BE RECOVERED AND PROPERLY DISPOSED OF.

15. THE CONTRACTOR SHALL MAINTAIN A SECURE SITE AND PROVIDE APPROPRIATE SAFETY MEASURES TO PREVENT ACCIDENTS. THE SAFETY MEASURES SHALL INCLUDE, BUT NOT BE LIMITED TO SIGNAGE, BARRICADES, FENCES, FLASHING WARNING LIGHTS, AND POLICING IF NECESSARY.

16. UPON COMPLETION OF THE PROJECT, CONTRACTOR DESIGN BUILDER WILL PROVIDE TWO AS-BUILT PLAN SETS, ONE ELECTRONIC PDF, AND ONE HARD COPY, TO THE OWNER DEPICTING ANY FIELD CHANGES OF DIMENSION OR DETAIL, LOCATION OF UNDERGROUND STRUCTURES AND/OR UTILITIES, CONSTRUCTION DEVIATIONS, CHANGES DUE TO FIELD OR CHANGE ORDER, AND DETAILS NOT ON THE ORIGINAL DRAWINGS.

17. THE PROJECT LIMITS IS LOCATED WITHIN THE FEMA FLOOD ZONE VE EL. 15 AND WILL BE INUNDATED DURING THE 100-YR STORM AS SHOWN ON THE WASHINGTON COUNTY FLOOD INSURANCE (FIS) MAP, PANEL 194/386, MAP NUMBER 44009C0194J. REVISED DATE OCT. 16, 2013

1. PRIOR TO PROJECT COMMENCEMENT, DESIGN BUILDER AND OWNER WILL NOTIFY AND COORDINATE WITH ALL STATE, LOCAL AND FEDERAL AUTHORITIES AS REQUIRED.
2. MOBILIZE CONSTRUCTION EQUIPMENT AND PERSONNEL TO THE SITE. UTILIZATION OF OFFSITE STAGING AREA WILL BE COORDINATED WITH THE OWNER AS APPROPRIATE AND AS NECESSARY. INSTALL EROSION CONTROLS.
3. PREVIOUS PIER TO BE DEMOLISHED AND REMOVED. IN PLACE PILES TO BE CUT AT MUDLINE WHEN NECESSARY.
4. LAYOUT THE PRELIMINARY ALIGNMENT OF PILES SUCH THAT THE PROPOSED PIER'S NORTHERN EDGE IS ALIGNED WITH THE EXISTING PIER NORTHERN EDGE.
5. DRIVE NEW TIMBER SUPPORT PILES TO THE SPECIFIED DEPTH AS SEEN ON SHEET S-201.
6. INSTALL L ANGLE ON EXISTING CONCRETE BULKHEAD.
7. INSTALL NEW TIMBER PIER FRAMING AS INDICATED ON THE DRAWINGS.
8. INSTALL 4x10 INCH DECKING ON TOP OF INSTALLED STRINGERS.
9. INSTALL FENDER SYSTEM.
10. DEMOBILIZE AND RETURN DISTURBED AREAS OF THE SITE TO PRE-CONSTRUCTION CONDITIONS.

1. CONTRACTOR SHALL MAINTAIN ALL EROSION CONTROL DEVICES FOR THE DURATION OF THE PROJECT.
2. CONTRACTOR SHALL PREVENT SEDIMENT FROM ENTERING THE WATERWAY VIA DISCHARGES THROUGH ANY DRAINAGE STRUCTURES OR RUNOFF FROM WITHIN THE LIMITS OF WORK.
3. CONTRACTOR SHALL BE RESPONSIBLE FOR REMOVING, RESTORING AND REPAIRING ALL DAMAGE AS A RESULT OF UNAUTHORIZED WORK OR DISCHARGES AT NO ADDITIONAL COST TO THE OWNER.
4. SOIL STOCKPILES SHALL BE A MINIMUM OF 2-FEET FROM THE EDGE OF THE BULKHEAD TO LIMIT RUNOFF INTO THE HARBOR.
5. DISCHARGE OF TURBID WATER TO THE WATERWAY IS PROHIBITED.

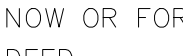
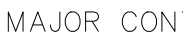
1. TIMBER DESIGNATED AS TREATED SHALL BE PRESSURE TREATED IN ACCORDANCE WITH AWPA STANDARD C2, SERVICE CONDITION UC5A-B AS SPECIFIED IN THE TABLE BELOW.
2. STRUCTURAL DESIGN IS BASED ON SOUTHERN YELLOW PINE NO. 2 KD-19 WITH MINIMUM REFERENCE DESIGN VALUES AS SPECIFIED IN THE TABLE BELOW:
3. ALL TIMBER FRAMING MEMBERS SHALL BE ROUGH GRADED UNLESS OTHERWISE NOTED.
4. ALL NAILING REQUIREMENTS LISTED ARE BASED UPON THE USE OF COMMON WIRE NAILS (NOT SINKERS, BOX, ETC.). ALTERNATIVE NAIL TYPES OF EQUIVALENT DIAMETERS MAY BE SUBSTITUTED, WITH PRIOR APPROVAL OF ENGINEER OF RECORD.
5. ALL BOLTS, NUTS, WASHERS, LAGS, SCREWS, AND DRIFT PINS SHALL BE MEDIUM CARBON STEEL WITH GALVANIZED COATING. SIZE AND TYPE TO SUIT APPLICATION IN CONFORMANCE WITH ASTM A153.
6. BRUSH OR ROLLER APPLY TWO COATS OF WOOD PRESERVATIVE TO ANY SURFACE WHICH HAS BEEN FIELD CUT, DRESSED, OR DRILLED.

COMPONENT	BENDING F _b (PSI)	SHEAR F _v (PSI)	COMPRESSION PERP. TO GRAIN F _c (PSI)	COMPRESSION PAR. TO GRAIN F _c (PSI)	TREATMENT
6x12 RGH	1100	175	565	1450	0.80 CCA
10x12 RGH	800	175	565	1300	0.80 CCA
12x12 RGH	750	175	565	1250	0.80 CCA
4x10 DECKING	1150	175	375	N/A	0.23 MCA

1. ALL TIMBER PILES ARE TO BE GREENHEART TIMBER PILES WITH A MINIMUM DIAMETER RANGING BETWEEN 12 AND 14-INCHES, 3 FEET FROM BUTT
 - 1.1. BENDING STRESS = 20,000 PSI
 - 1.2. MODULUS OF ELASTICITY = 3,000 KSI
 - 1.3. MAXIMUM CRUSHING STRENGTH = 10,500 PSI
2. GREENHEART PILES TO HAVE TWO STAINLESS STEEL BANDS MINIMUM 1 FOOT FROM TOP OF PILE
3. CONTRACTOR SHALL BE RESPONSIBLE FOR MAINTAINING A PILE DRIVING LOG OF DRIVEN DEPTHS AND WILL BE RESPONSIBLE FOR REPORTING ANY PILE OR SET OF PILES NOT MEETING DESIGN REQUIREMENTS AS STATED ON THE SET OF PLANS

1. SPILLS AND LEAKS SHALL BE AVOIDED THROUGH FREQUENT INSPECTION OF EQUIPMENT AND MATERIAL STORAGE AREAS, AND SHALL BE REMEDIATED AND REPAIRED AS NECESSARY.
2. HAZARDOUS MATERIAL STORAGE TO BE PLACED ONLY IN DESIGNATED AREAS. MATERIAL STORAGE AREAS SHALL BE ROUTINELY INSPECTED FOR LEAKY CONTAINERS, OPEN CONTAINERS, OR IMPROPER STORAGE TECHNIQUES THAT MAY LEAD TO SPILLS OR LEAKS.
3. APPROPRIATE SPILL REMEDIATION PROCEDURES AND SUPPLIES SHALL BE READILY AVAILABLE ON-SITE. TOOLS AND SUPPLIES SHALL BE CLEARLY MARKED SO THAT ALL PERSONNEL CAN LOCATE AND ACCESS THESE SUPPLIES.
4. SPILL REMEDIATION SHALL BE PERFORMED IMMEDIATELY. CONTRACTOR SHALL FOLLOW PROPER RESPONSE PROCEDURES IN ACCORDANCE WITH ANY APPLICABLE REGULATORY REQUIREMENTS.
5. AT NO TIME SHALL SPILLS BE DIVERTED TOWARD STORM DRAINS OR TO THE WATERWAY.
6. EQUIPMENT/VEHICLE FUELING AND REPAIR/MAINTENANCE OPERATIONS SHALL TAKE PLACE ONLY WITHIN DESIGNATED STAGING AREAS.
7. THE EQUIPMENT OPERATOR SHALL FULLY MONITOR FUELING OPERATIONS TO EQUIPMENT AND VEHICLES AT ALL TIMES.
8. ANY SPILLAGE SHALL BE IMMEDIATELY CLEANED WITH SPILL KITS KEPT ON SITE.

EXISTING NOT ALL ITEMS SHOWN WILL APPEAR ON THE SURVEY

	BUILDING		NAIL FOUND/SET
	ASPHALT		DRILL HOLE FOUND/SET
	ASSESSOR'S PLAT		IRON ROD/PIPE FOUND/SET
	NOW OR FORMERLY		BOUND FOUND/SET
	DEED		SIGN
	MEASURED		BOLLARD
	CALCULATED		SOIL EVALUATION
	CHORD ANGLE		CATCH BASIN
	HANDICAPPED		DOUBLE CATCH BASIN
	PROPERTY LINE		DRAINAGE MANHOLE
	ASSESSORS LINE		FLARED END SECTION
	TREELINE		GUY POLE
	GUARDRAIL		ELECTRIC MANHOLE/HANDHOLE
	FENCE		UTILITY/POWER POLE
	STEEL SHEET PILE		LIGHTPOST
	STONE WALL		SEWER/SEPTIC MANHOLE
	MINOR CONTOUR LINE		SEWER VALVE
	MAJOR CONTOUR LINE		CLEANOUT
	WATER LINE		HYDRANT
	SEWER LINE		IRRIGATION VALVE
	SEWER FORCE MAIN		WATER VALVE
	GAS LINE		WELL
	ELECTRIC LINE		MONITORING WELL
	OVERHEAD WIRES		UNKNOWN MANHOLE
	DRAINAGE LINE		GAS VALVE
	MEAN HIGH WATER (MHW)		WETLAND FLAG
	MEAN LOW WATER (MLW)		BORING
			BUSH
			TREE
			BENCH MARK
			TIMBER PILE

	EROSION CONTROL
	STEEL SHEET PILE WALL
	STRUCTURAL PERIMETER LIMIT (SPL)
	LIMIT OF DISTURBANCE (LOD)
	TIMBER PILE
	FLOOD/EBB DIRECTION
	PILE COLUMN NUMBERING INDEX
	PILE BENT NUMBERING INDEX
	WATER ELEVATION

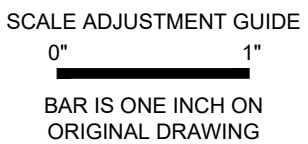
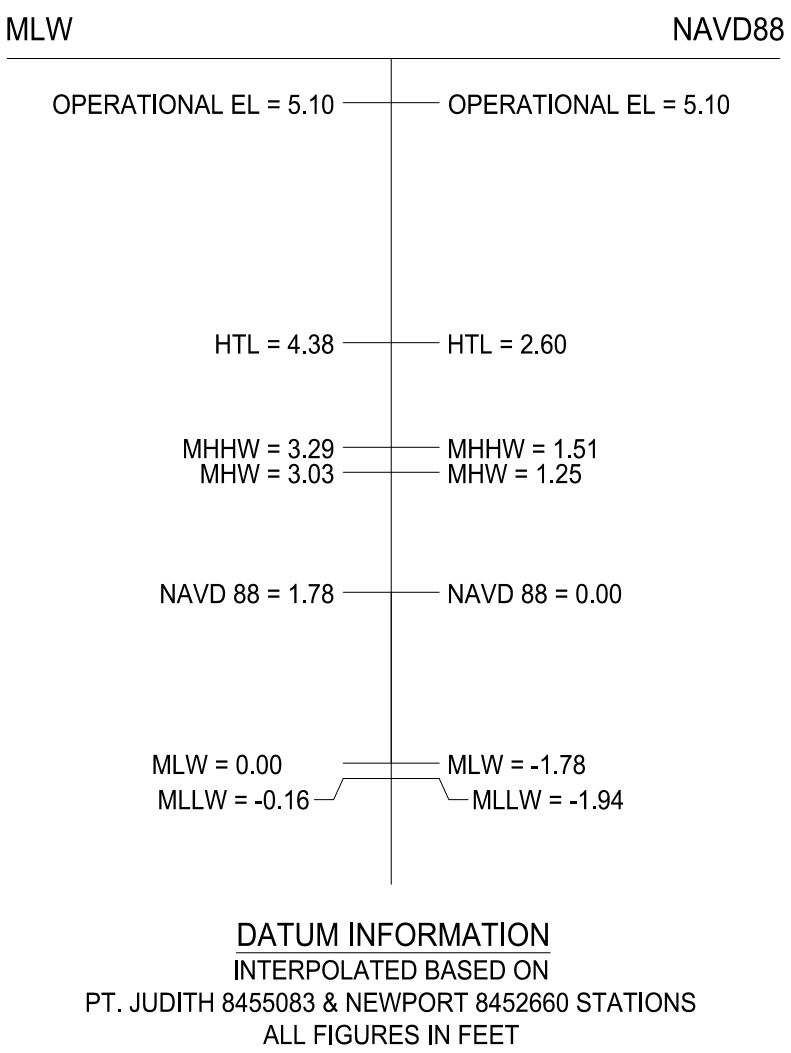
PIER LOADINGS	
1. BERTHING AND MOORING LOADS	
A. L (FT)	81
B. BM (FT)	26
C. DRAFT (FT)	15
D. GW (TONS, US)	193
E. DT (ASSUMED)(TONS, US)	330
F. SAIL AREA (SF)	41,979
G. CLASS	
H. NAME	
I. TYPE	FISHING VESSEL
J. DESIGN DREDGE DEPTH, MAX (FT)	15
K. WATER DENSITY (PCF)	64
L. WIND SPEED (MPH)	94
M. DESIGN FETCH (NM)	
N. BERTHING CONDITION	GOOD
O. BERTHING EXPOSURE	EXPOSED
P. VELOCITY (FT/SEC)	0.5
Q. BERTHING ENERGY (KIP-FT)	2.2
2. VERTICAL LOADS	
A. PIER DESIGN LIVE LOAD (PSF)	250
B. GROUND SNOW LOAD (PSF)	30
C. DEAD LOAD (PSF)	SELF WEIGHT OF TIMBER MEMBERS
D. BUILDING COLUMN DEAD LOAD	IN DEVELOPMENT BY OTHERS
E. BUILDING COLUMN LIVE LOAD	IN DEVELOPMENT BY OTHERS
F. BUILDING COLUMN WIND LOAD	IN DEVELOPMENT BY OTHERS

3. HORIZONTAL LOADING

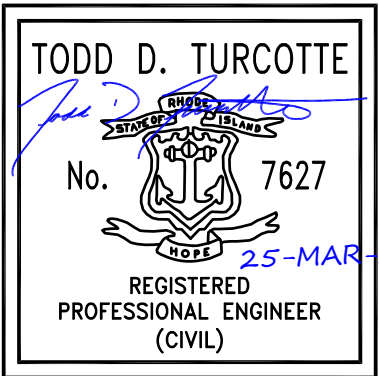
A. BUILDING WIND LOAD..... IN DEVELOPMENT BY OTHERS

B. FEMA FLOOD LOAD..... IN DEVELOPMENT BY OTHERS

*BUILDING LOADS REFERENCE THE RHODE ISLAND STATE BUILDING CODE AND ASCE-7



PIER 'I' REMOVAL AND REPLACEMENT
PORT OF GALILEE: PHASE IV
NARRAGANSETT, RHODE ISLAND
RHODE ISLAND
DEPARTMENT OF ENVIRONMENTAL MANAGEMENT



PROJECT NO.:	23153.01
DATE:	MARCH 2025
SCALE:	AS NOTED
DESIGNED BY:	JPN
CHECKED BY:	TGD
DRAWN BY:	TJD
APPROVED BY:	TDT
DRAWING TITLE:	

DRAWING NO.:

G-002

SHEET NO. 2 OF 8

ISSUED FOR PERMIT
NOT FOR CONSTRUCTION
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CONSTRUCTION ACCESS PLAN
SCALE: 1"=150'



SCALE ADJUSTMENT GUIDE
0" 1"
BAR IS ONE INCH ON ORIGINAL DRAWING

PIER 'I' REMOVAL AND REPLACEMENT
PORT OF GALILEE: PHASE IV
NARRAGANSETT, RHODE ISLAND
DEPARTMENT OF ENVIRONMENTAL MANAGEMENT

TODD D. TURCOTTE
No. 7627
REGISTERED
PROFESSIONAL ENGINEER
(CIVIL)
25-MAR-25

REVISIONS:

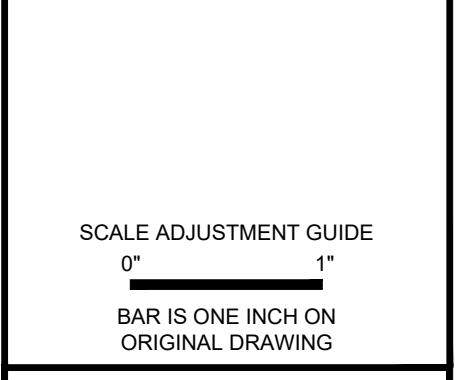
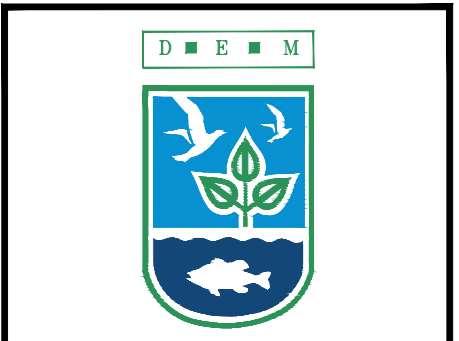
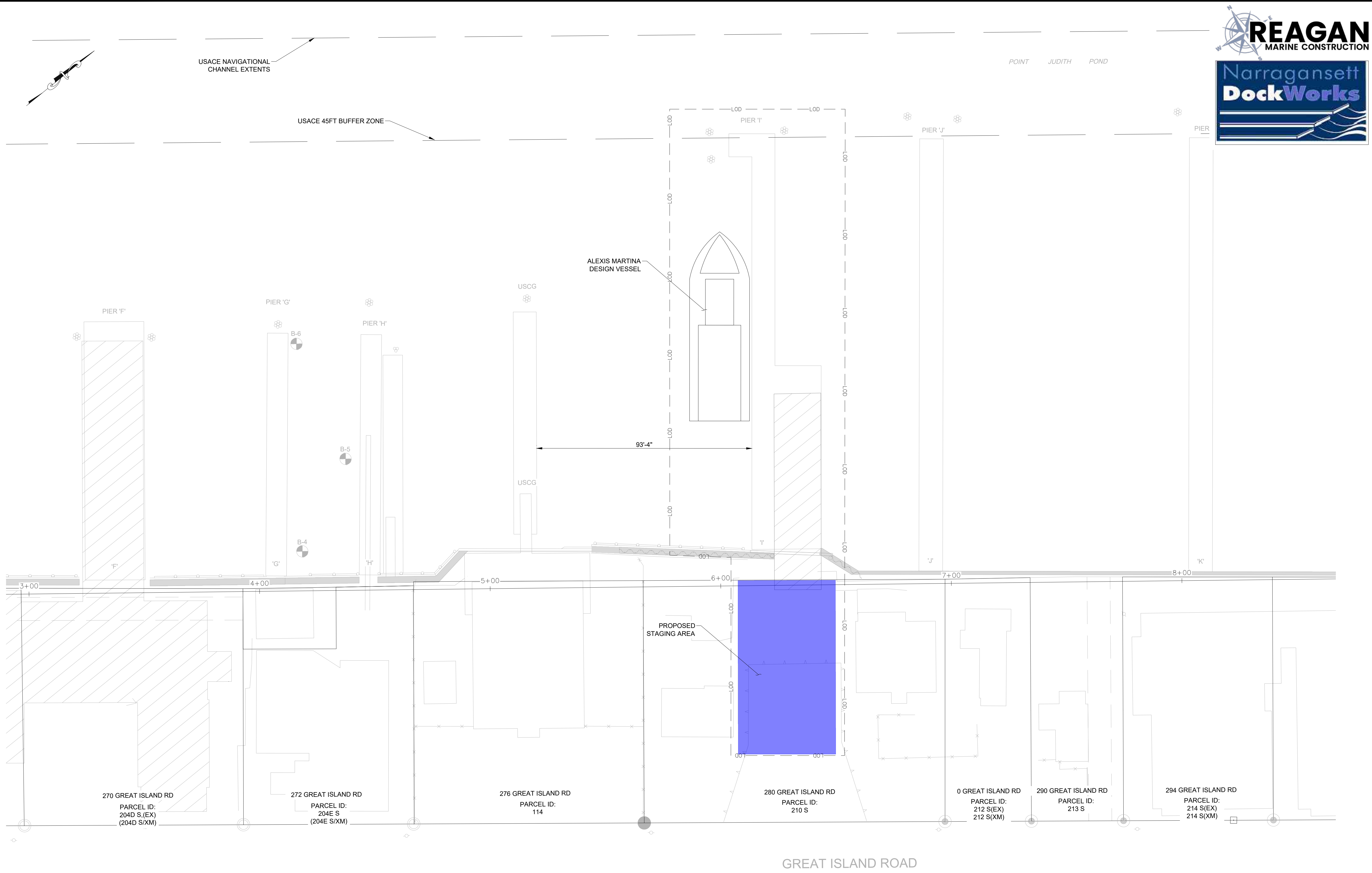
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DATE: MARCH 2025
SCALE: AS NOTED
DESIGNED BY: JPN
CHECKED BY: TGD
DRAWN BY: TJD
APPROVED BY: TDT
DRAWING TITLE:

CONSTRUCTION ACCESS
PLAN

DRAWING NO.:
C-101

SHEET NO. 3 OF 9

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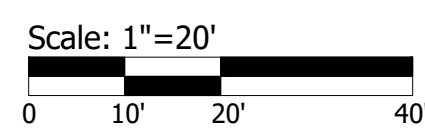
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NARRAGANSETT, RHODE ISLAND
RHODE ISLAND
DEPARTMENT OF ENVIRONMENTAL MANAGEMENT

TODD D. TURCOTTE
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25-MAR-25
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CHECKED BY:	TGD
DRAWN BY:	TJD
APPROVED BY:	TDT
DRAWING TITLE:	

EXISTING CONDITIONS PLAN	
DRAWING NO.:	
C-102	
SHEET NO.	4 OF 9

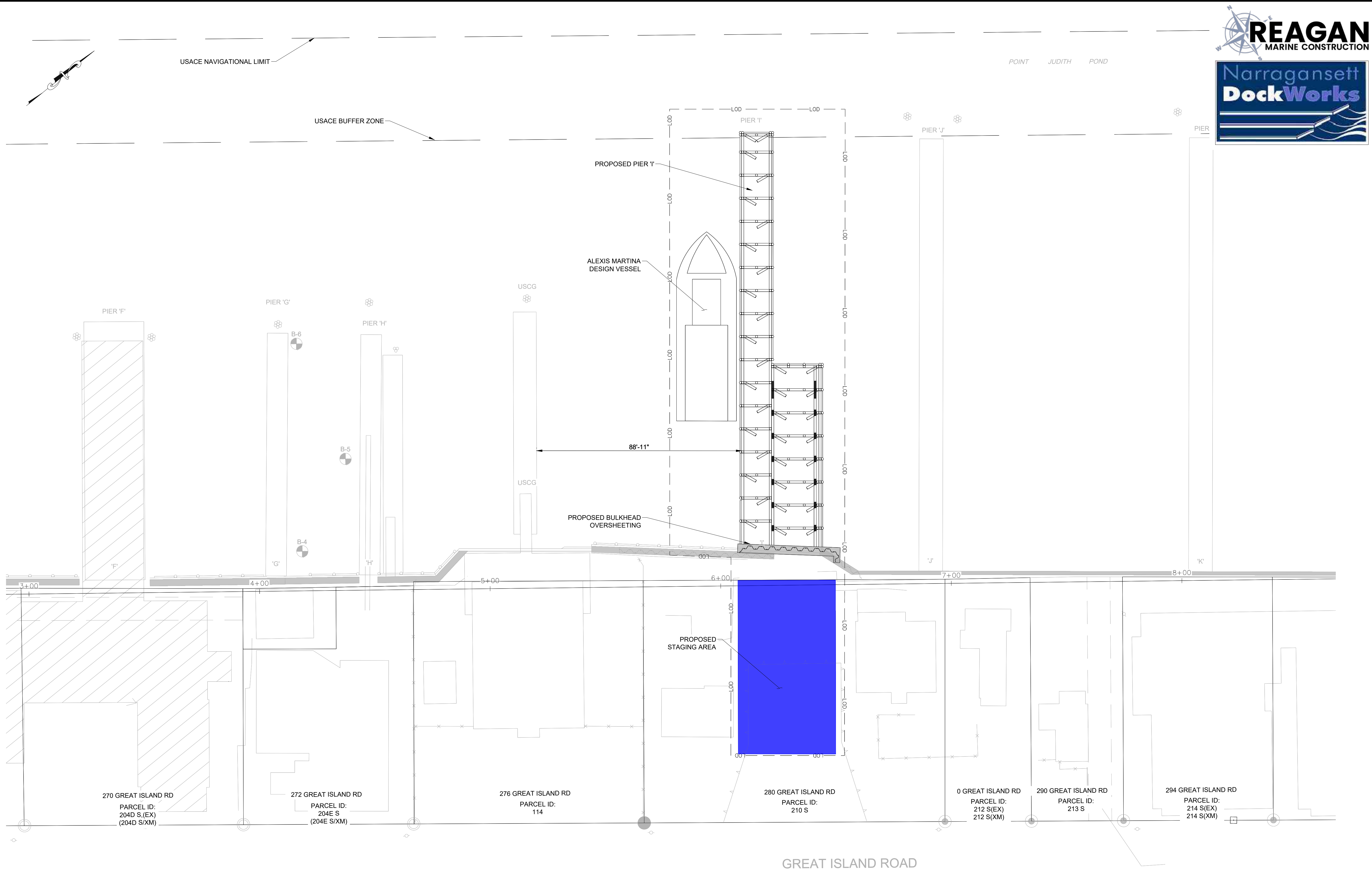
- NOTES:
- BORINGS REFERENCE BORING LOCATION PLAN AND LOGS COMPLETED IN MAY, 1999 BY GUILD DRILLING CO., INC.
 - STATIONS REFERENCES A BASELINE BEGINNING AT THE CORNER OF THE SOUTH BULKHEAD TIE IN, SOUTH OF PIER 'A', AND TERMINATING AT THE RIGHT BULKHEAD TIE IN TO THE EAST OF PIER 'UU'.



EXISTING CONDITIONS PLAN
SCALE: 1"=20'

ISSUED FOR PERMIT
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3/26/2025
COASTAL RESOURCES
MANAGEMENT COUNCIL



- NOTES:
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 2. STATIONS REFERENCES A BASELINE BEGINNING AT THE CORNER OF THE SOUTH BULKHEAD TIE IN, SOUTH OF PIER 'A', TO THE SOUTH OF PIER 'A' AND TERMINATING AT THE RIGHT BULKHEAD TIE IN TO THE EAST OF PIER 'UU'.

PROPOSED SITE PLAN
SCALE: 1"=20'

ISSUED FOR PERMIT
NOT FOR CONSTRUCTION
IF PRINTED 11X17 DRAWING IS HALF SIZE

SCALE ADJUSTMENT GUIDE
0" 1"
BAR IS ONE INCH ON ORIGINAL DRAWING

PIER 'I' REMOVAL AND REPLACEMENT
PORT OF GALILEE: PHASE IV
NARRAGANSETT, RHODE ISLAND
RHODE ISLAND
DEPARTMENT OF ENVIRONMENTAL MANAGEMENT

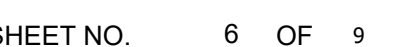
TODD D. TURCOTTE
No. 7627
REGISTERED PROFESSIONAL ENGINEER (CIVIL)
25-MAR-25

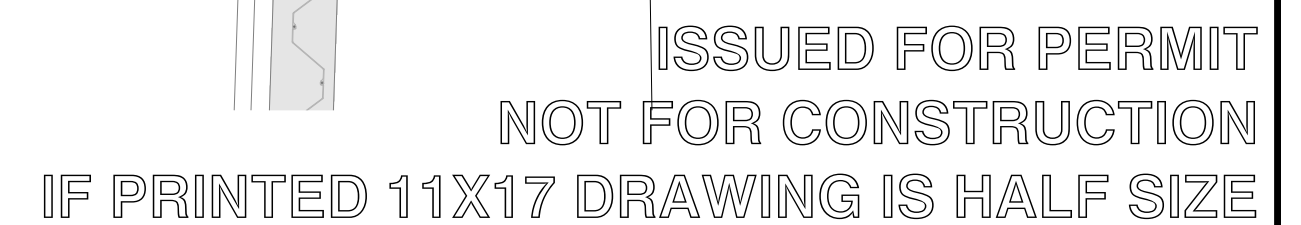
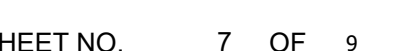
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CHECKED BY:	TGD
DRAWN BY:	TJD
APPROVED BY:	TDT
DRAWING TITLE:	

PROPOSED SITE PLAN

DRAWING NO.:	C-103
SHEET NO.	5 OF 9





PROJECT NO. 2006-0009
RDEM Galle Phase 4_NDW-Reagon DB-R\DWGS - Pier A\S-102 PROPOSED PIER PLAN AND SECTION.dwg



SCALE ADJUSTMENT GUIDE
0" 1"
BAR IS ONE INCH ON ORIGINAL DRAWING

PIER 'I' REMOVAL AND REPLACEMENT
PORT OF GALILEE: PHASE IV
NARRAGANSETT, RHODE ISLAND
RHODE ISLAND
DEPARTMENT OF ENVIRONMENTAL MANAGEMENT

TODD D. TURCOTTE
No. 7627
25-MAR-25
REGISTERED
PROFESSIONAL ENGINEER
(CIVIL)

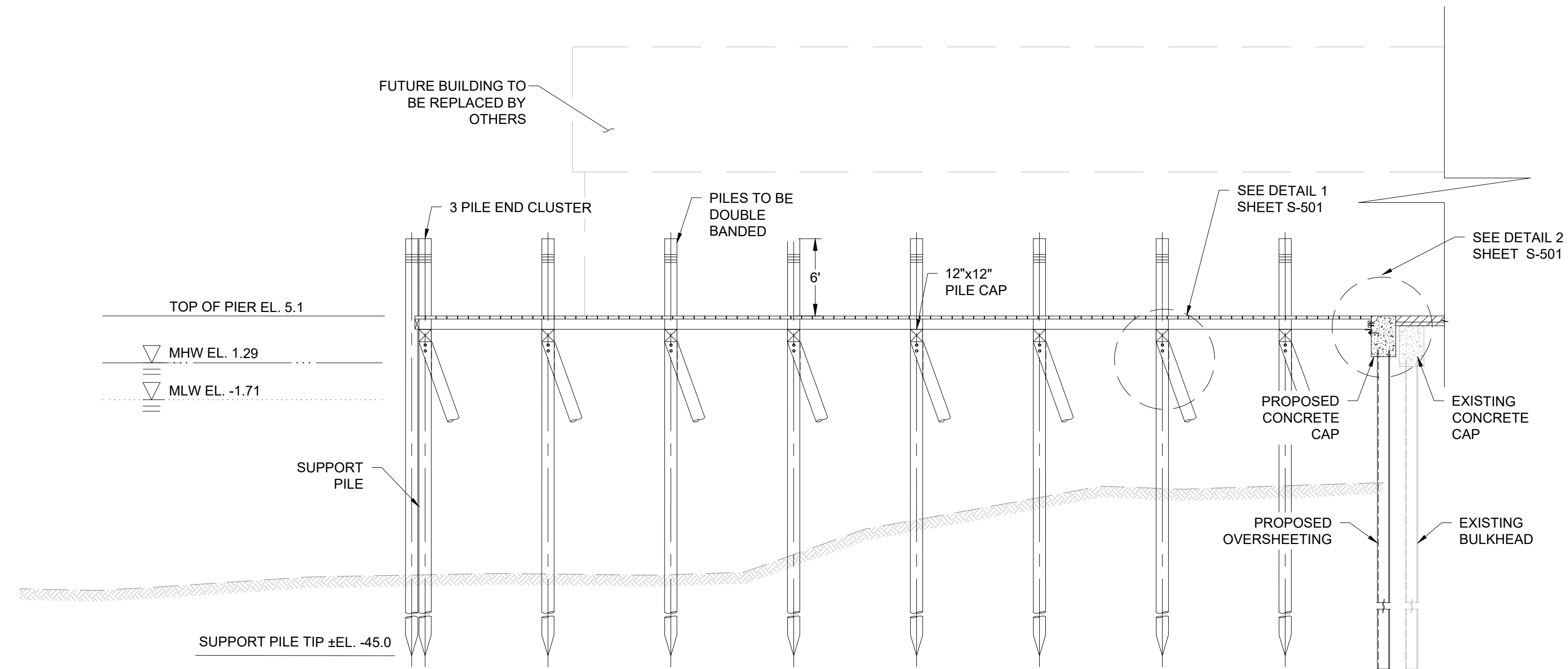
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PROPOSED PIER
ELEVATIONS

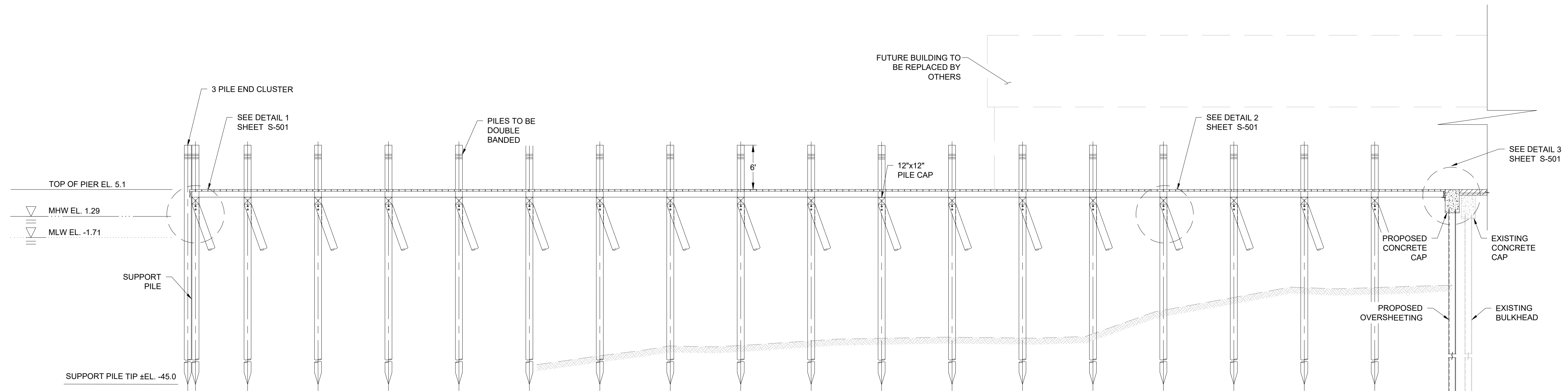
DRAWING NO.:
S-201

SHEET NO. 8 OF 9



PROPOSED PIER ELEVATION - BUILDING PIER

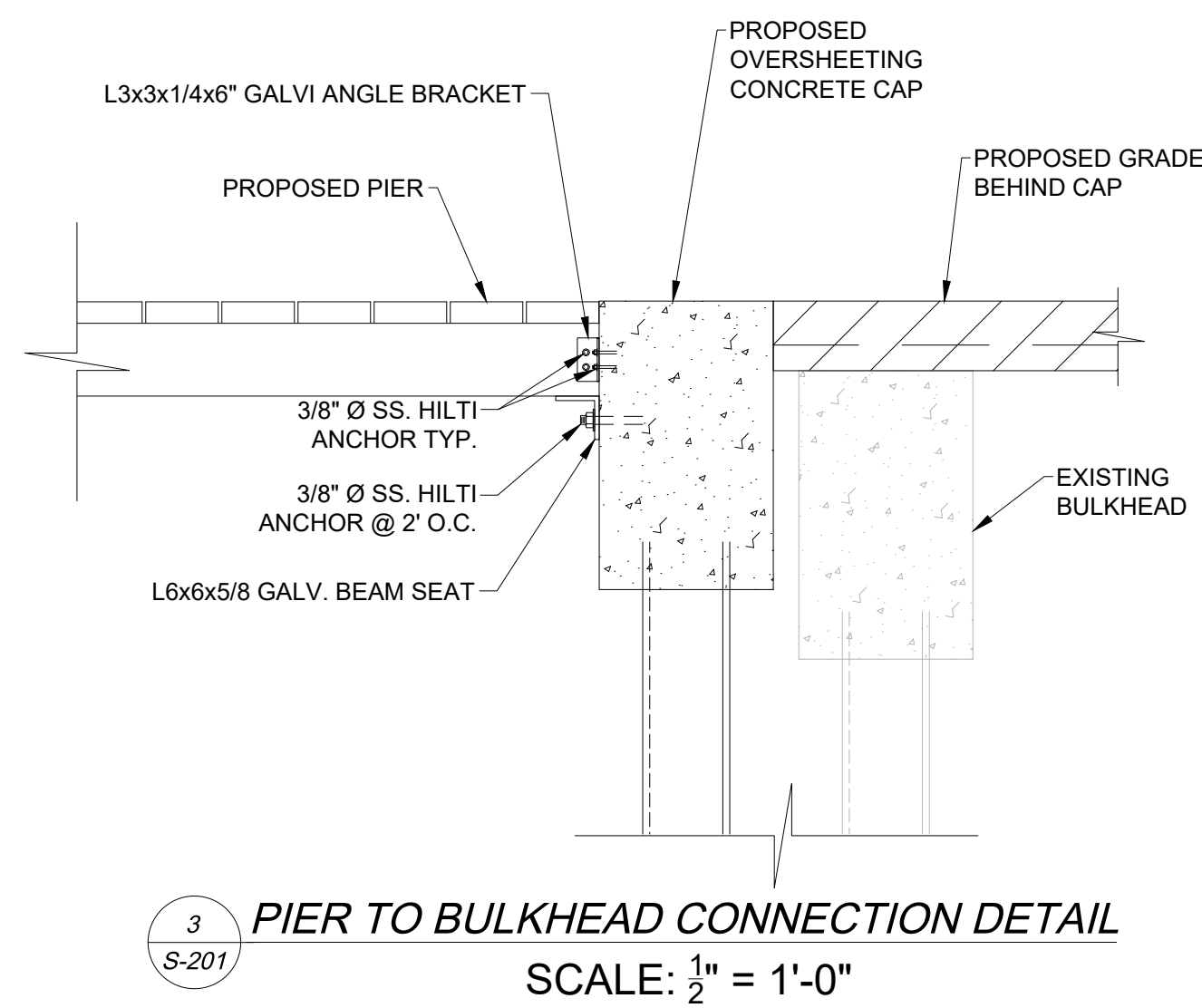
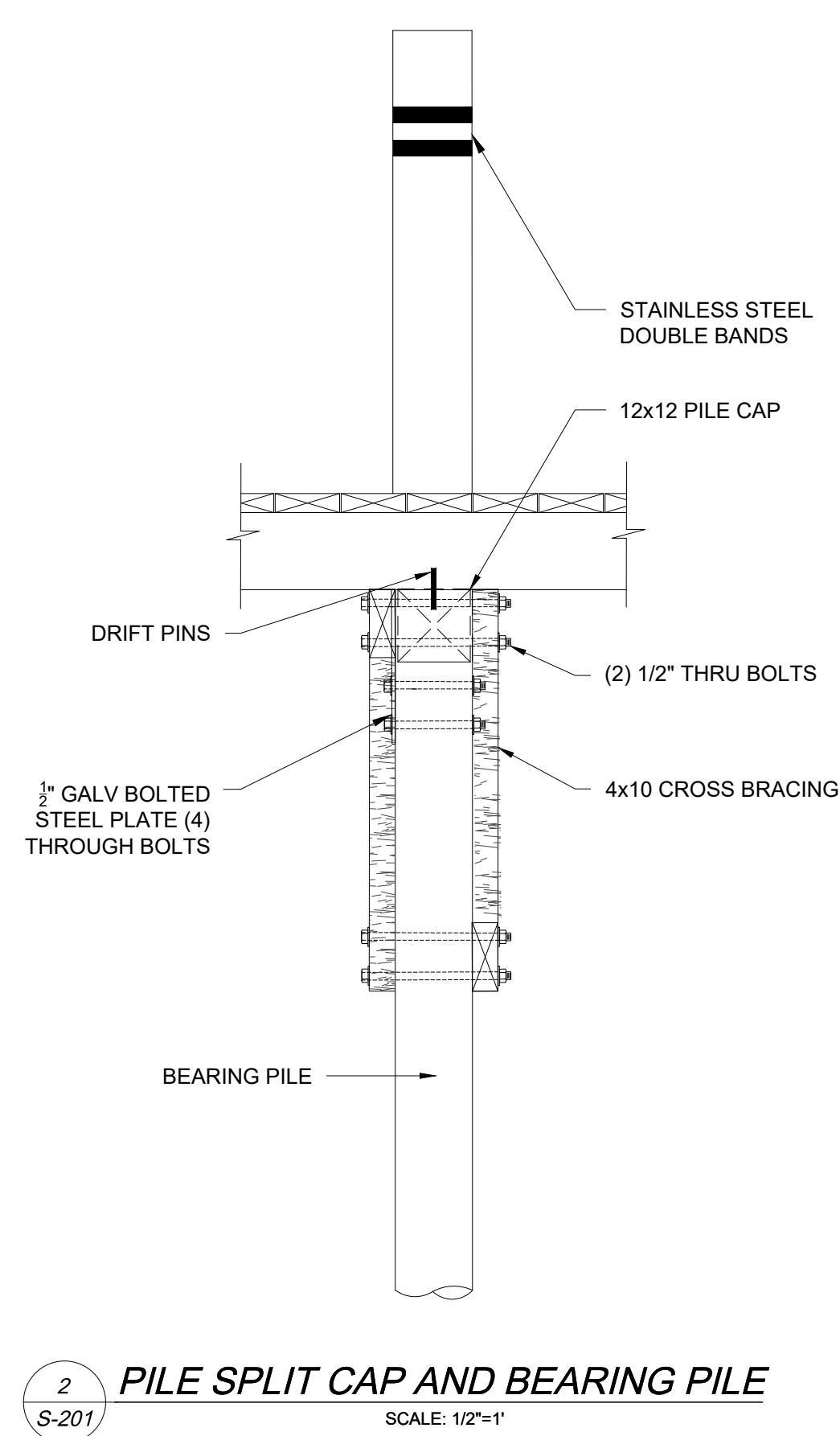
SCALE: $\frac{1}{8}" = 1'-0"$



PROPOSED PIER ELEVATION - WORKING PIER

SCALE: $\frac{1}{8}" = 1'-0"$

ISSUED FOR PERMIT
NOT FOR CONSTRUCTION
IF PRINTED 11X17 DRAWING IS HALF SIZE



ISSUED FOR PERMIT
NOT FOR CONSTRUCTION
IF PRINTED 11X17 DRAWING IS HALF SIZE

