

TOWN OF CHATHAM

TRAP DOCK RECONSTRUCTION Chatham, MA

ADDENDUM NO. 3

October 18, 2019

The attention of bidders submitting proposals for the subject project Trap Dock Reconstruction, Chatham, MA are called to the following addendum. The items set forth herein, whether of omission, addition, substitution or clarification are all to be included in and form a part of the proposal submitted. **Bidders shall confirm addendum is included on Bid Proposal.**

A. RESPONSES TO REQUESTS FOR INFORMATION (RFI'S)

- a. On Sheet #19 there is a note stating that the existing pole is to be relocated, relocated to where?
The Town is no longer seeking the relocation of the pole. The pole will remain in its current position. See revisions to the Contract Drawings.
- b. On Sheet #19 panel EP-2 is drawn on the boat launch side of the building. Can it be located on the trap dock side?
The Electrical Panel has been relocated to the west side (Trap Dock side) of the building. See revisions to the Contract Drawings.
- c. On Sheet #21 using the photo of the building, where is the new meter socket intended to be located?
The proposed meter location is shown on the picture on sheet #21. The final location will be determined in the field during construction by Eversource. The intended location will be on the same side of the building as the existing services.
- d. Currently the Bid Item for Pier Piles is per EACH. On Sheet 2 of 24, Pier Pile Notes 3 and 4 reference the required working load capacity and state that estimated pile length is 50 FT. The notes also say "Contractor shall make their own determination of pile lengths required to meet the project requirements." In order to account for variation in actual site conditions encountered, we ask that you please change the measurement and payment for the Pier Piles to a LINEAL FOOT unit price. If not, please confirm that the length of 50 FT per pile is to be used for bidding purposes.
The Piles will be paid per EACH as outlined in the Contract Documents. Contractors shall make their own determination of pile lengths required to meet the project requirements. Contractors shall add additional lengths required for hammer damage and cut offs to the estimated lengths.
- e. Please verify the electrical duct bank detail "A-A" shown on drawing E-04 shall be utilized for the proposed conduit placed under the articulated concrete mat (ACB) from the existing building to proposed sheet pile wall as shown on E-03 (sheet 19 of 24).
Yes, the Contractors shall install duct bank A-A as called off on Sheet E-3 Sheet 19 of 24, under the ACB mat.

- f. Please confirm the number of electrical conduit (10 each shown) to be installed in the duct bank from the existing building to proposed sheet pile wall.
The Contractors shall install duct bank A-A as called off on Sheet E-3 Sheet 19 of 24 to provide service from the Harbormaster building to the new electric enclosure. The Contractor shall install the conduits per code to the new enclosure. The contractor shall install the conduits from the enclosure out to the services on the pier as shown on the Contract Drawings.
- g. Referencing C-02, only WTR is shown as “cut and cap.” Where is the nearest shut-off? Where is this line intended to be cut and capped? What is the pipe material, size and depth below existing grade? Are there other utilities that need to be cut and capped (e.g., electric, sanitary)? If so, similar details are requested.
The nearest shutoff to the water service is in the main entrance roadway, directly in front of the harbormaster building. It is shown on the Existing Site Plan. The work required to the Waterline shown on the existing plans is modified, see revisions to the Contract Drawings in this addendum. Contractors are not required to cut and cap water service. Existing water service is fed from the adjacent trailer/ ice machine and will be disconnected by others. Piping between the trailer and the existing building is plastic.

The existing electrical services to the existing building are being removed. Contractors shall refer to the Electrical drawings for requirements.
- h. The Proposed Pier Sections on Drawing C-03 show timber bracing below the deck. There do not seem to be any details or actual number of locations included in the plans. Please clarify.
All bracing shall be Tropical Hardwood 3x8 timbers. Bracing shall be installed in the North/ South Direction on Pile Rows C and D as shown on Detail C-02. Bracing shall be installed in the East/ West Direction between Pile Rows C and D on Bents 1, 3, and 6 as shown on Detail C-02.
- i. Detail D on sheet C-07 shows a utility penetration running through the cast in place concrete Pile Cap #'s 3-6. What is this for? And can a detail be provided for these penetrations including block out size, reinforcement, sealing, etc.?
This is not included in the Contract. See Revisions to the Contract Drawings.
- j. Per section 05 900 an installation procedure for the precast panels is to be submitted to the Engineer for approval. Does this procedure need to be stamped by a Professional Engineer?
The installation procedure does not need to be stamped by a Professional Engineer.
- k. Will falsework design for the cast in place concrete need to be submitted to the engineer for approval? If so will these designs need to be stamped by a Professional Engineer?
Proposed falsework details should be submitted for review. Falsework designs are not required to be stamped by a Professional Engineer.

- l. Please clarify what equipment and work related to the Salt Water Washdown System should be included in the scope. Contract drawing C-12 lists the equipment associated with the system, but drawing P-02 states that the system is by others.
The Contractor shall install a fully operational salt water wash down system, run from a well. The system shall meet the minimum requirements outlined on Sheet C-12. The note "by others" is revised to "by Contractor"
- m. Please provide the water piping detail under articulated concrete mat (ACB) from the existing building to proposed sheet pile wall as shown on contract drawing P-02.
P-02 drawing indicates the design intent of running the CPVC piping within the larger CPVC sleeve, as well as the intent to pitch the line so that it can be drained down at an access point within the limits of the future building. Supporting the sleeve during the pouring of the concrete utility trench would be means and methods owned by the Plumbing Contractor.
- n. Can you please provide schedule information on the electrical pole relocation?
The Pole is no longer scheduled for relocation. Notes are removed from the Electrical Drawings.
- o. If the pole will not be relocated prior to construction, can you please confirm that temporary shutdown of the service to the Harbormaster Building is possible/acceptable?
See question a above. The existing pole will not be relocated. However, if a temporary shutdown is required for more than 8 hours, or shut downs over consecutive days for more than 2 hours to the Harbormaster building, temporary power shall be provided to maintain safety operations.
- p. Please confirm Tropical Hardwood is not required on this project and that ACQ treated SYP is acceptable, per the specifications.
All wood shall be tropical hardwood unless otherwise noted on the Contract Drawings. See Specification Section 06130.22.1 and as noted on the Contract Plans Sheet 2 under Heavy Timber Note 1.
- q. We probably should have requested a week extension. Did anyone request?
Bid dates are as stated in the Project Documents. No extensions are provided to the Bid Date.
- r. Also, the pile capacity could be an issue with the schedule for the project if we can't obtain the 28 ton capacity with greenheart piles. It's my understanding that 50' is the longest available? If that length isn't suitable, steel may have to be used? Has there been any consideration of doing test piles in advance of the project to determine whether the 28-ton capacity can be obtained?
Contractor shall refer to question "d" above.

To the best of our knowledge there are greenheart piles available over 50' if the Contractor wishes to order longer piles. Contractors shall confirm with their local vendors for availability. Steel piles will not be allowed on the project.

The Town has not performed any test piles, and will not perform any test piles prior to Construction. Contractors may at their own option and cost perform test piles. This time and effort shall be at the sole option and cost of the contractor, and shall not impose any

delays to the overall project completion. Test piles may become part of the work if installed per the project requirements.

B. REVISIONS TO PROJECT DOCUMENTS

NOTICE TO BIDDERS

Page 4 of 4 Section P.

Replace “November 1, 2019” with “November 8, 2019”

BID

Page 00110-10 Clause 7 Replace with the following:

7. Indemnification Agreement:

The contracted Bidder hereby indemnifies and shall at all times save and hold harmless the Town of Chatham, and its officers, attorneys, employees, agents, and Owners Representatives from and against any and all claims (including workers' compensation and wage claims), demands, suits, actions, liabilities, damages, penalties, judgments, and costs and expenses, including without limitation the costs and expenses of litigation, of or by anyone that in any way is caused by, arises out of, or is occasioned by the performance, activities, operations, conducts, negligence, or omissions of the contracted Bidder, or any of its agents or employees.

AGREEMENT

Page 4 of 11 Clause 15 Replace with the following:

15. INDEMNIFICATION The Contractor hereby indemnifies and shall at all times save and hold harmless the Town of Chatham, and its officers, attorneys, employees, agents, and Owners representatives from and against any and all claims (including workers' compensation and wage claims), demands, suits, actions, liabilities, damages, penalties, judgments, and costs and expenses, including without limitation additional engineering costs and attorney's fees and the costs and expenses of litigation, of or by anyone that in any way is caused by, arises out of, or is occasioned by the performance, activities, operations, conducts, negligence, or omissions of the Contractor, or any of its agents or employees, including subcontractors.

GENERAL AND SPECIAL CONDITIONS

Clause 1.05.D.11 Replace with the following:

11. All insurance policies provided pursuant to the foregoing provisions of these Insurance Requirements shall be in the form and written by companies satisfactory to the Owner, and the Owner and their representatives shall be named as an additional insured. All such policies shall contain provisions or endorsements necessary to assure coverage of claims by one insured against another. All required insurance policies are to be endorsed to state that the Contractor's policies shall be primary to all other insurance available to the Owner for liability arising out or resulting from the Contractor's operations under the Contract, whether such operations be by Contractor or by a Sub-Contractor or by anyone directly to indirectly employed by any of them or by anyone for whose acts any of them may be liable.

C. REVISIONS TO PROJECT SPECIFICATIONS

SPECIFICATION 02455

Page 02455-2 Part 2.1.A.3 – Replace UHMW with HDPE

D. REVISIONS TO PROJECT DRAWINGS

Sheet C-02

Revise Note “Cut and Cap Pipe” to “Waterline to remain- Location to be confirmed in field”

Sheet C-03

ADD – Notes to Details “B” and “C” as shown on the attached sheets.

Sheet C-12

Freshwater system

Replace Note 3 with the following:

3. SHALL INCLUDE MIN ¾” HDPE POLYETHYLENE TUBING CONFORMING TO AWWA C901 FOR BURIED SERVICE. INSIDE DIAMETER SHALL BE CONSISTENT WITH IPS INSIDE DIAMETER.

Replace note 5 with the following:

5. SYSTEM COMPONENTS SHALL BE RATED AND PRESSURE TESTED TO MEET MIN 160 PSI.

SALT WATER WASHDOWN SYSTEM

Replace Notes 4, 3.2 through 3.6 with the following:

4. SYSTEM PIPING SHALL BE HDPE POLYETHYLENE TUBING CONFORMING TO AWWA C901 FOR BURIED SERVICE. INSIDE DIAMETER SHALL BE CONSISTENT WITH IPS INSIDE DIAMETER
5. SYSTEM SHALL INCLUDE A MIN. OF THE FOLLOWING:
 - 5.1. SUBMERSIBLE PUMP SUITABLE FOR THE MARINE ENVIRONMENT
 - 5.2. 4” DIAMETER WELL
 - 5.3. MIN 40-GAL EXPANSION TANK
 - 5.4. 2” LINE BETWEEN THE PUMP AND EXPANSION TANK
 - 5.5. 1.25” LINES BETWEEN TANK AND WASH DOWN STATIONS

Sheet E-03

Replaced in its entirety. Changes are clouded

Sheet E-04

Lighting Fixture Schedule

Catalog Number for S1 – Replaced with the following:

LSBW-3-C-5-T4-B-1-SP-PMH (MARINE GRADE – COLOR TO MATCH EXISTING)

New Panel Schedule

Circuit 37, 39, 41 are changed to “SPARE”

Sheet E-05

Replaced in its entirety. Changes are clouded to reflect existing pole to remain, and meter location to be coordinated with Eversource.

***** END OF ADDENDUM #3 *****

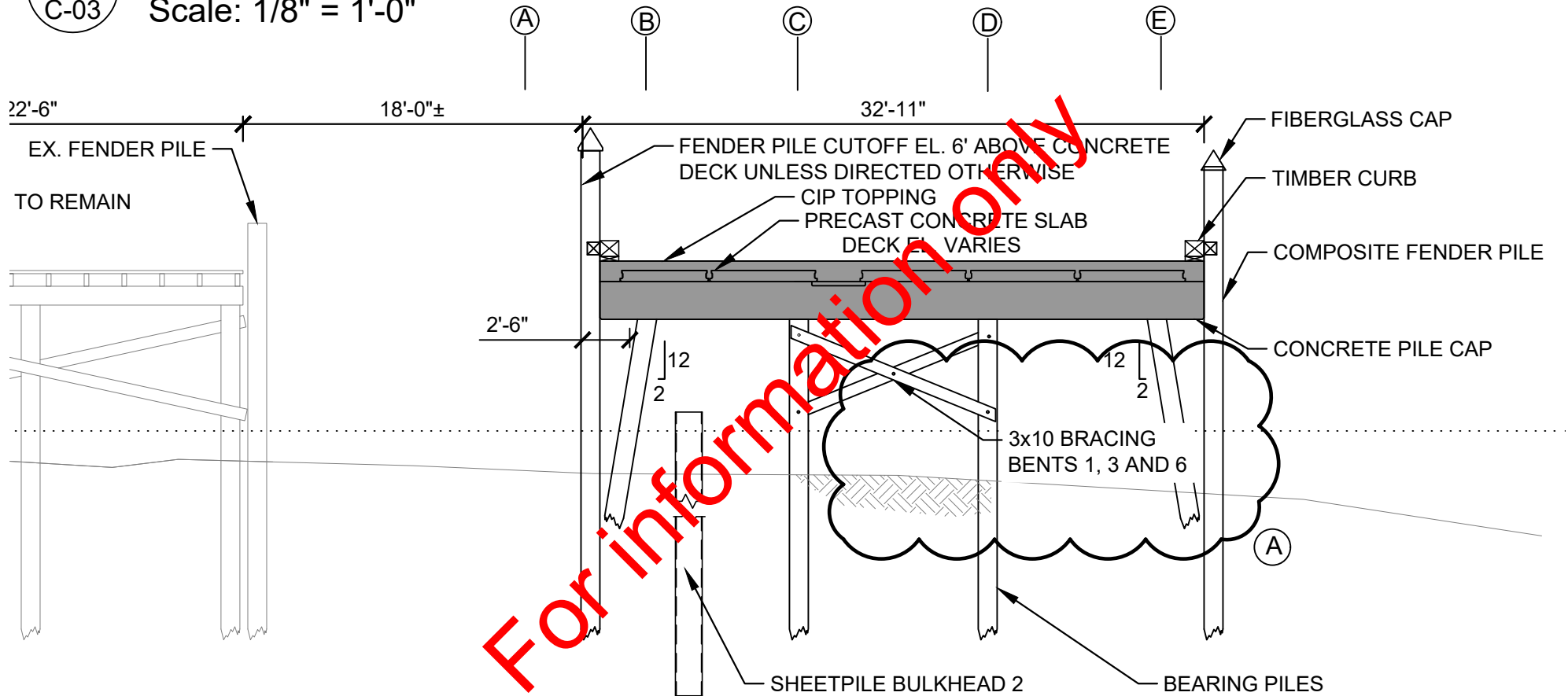
ADDENDUM NO.3 IS COMPRISED OF 13PAGES

ATTACHMENTS:

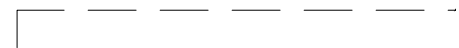
- Detail B/ C03
- Detail C/ C03
- Detail D/ C07
- Detail K/ C10
- Sheet E-03
- Details from E-04
- Sheet E-05

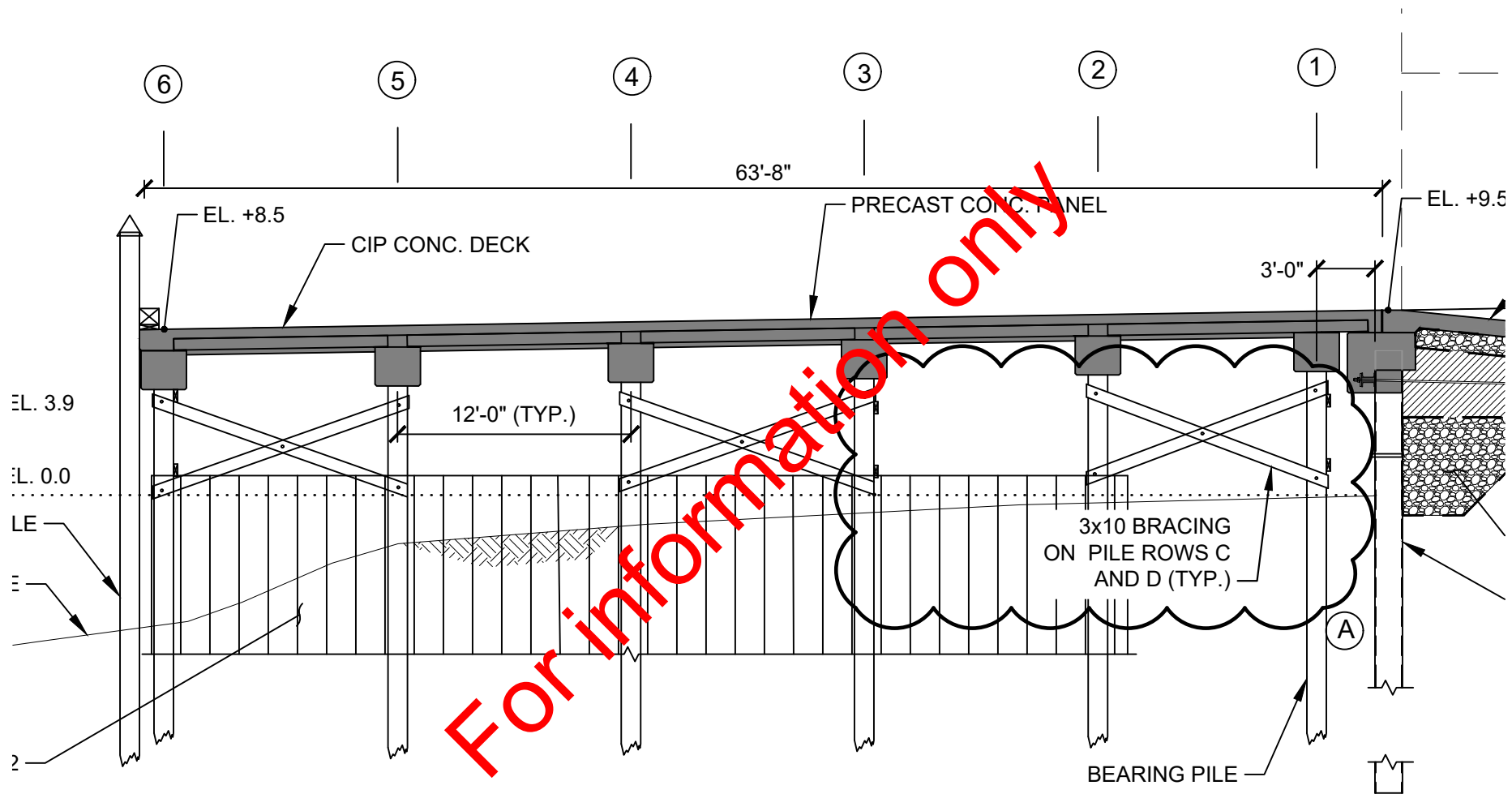
For information only

A PROPOSED FIER SECTION
 C-03 Scale: 1/8" = 1'-0"

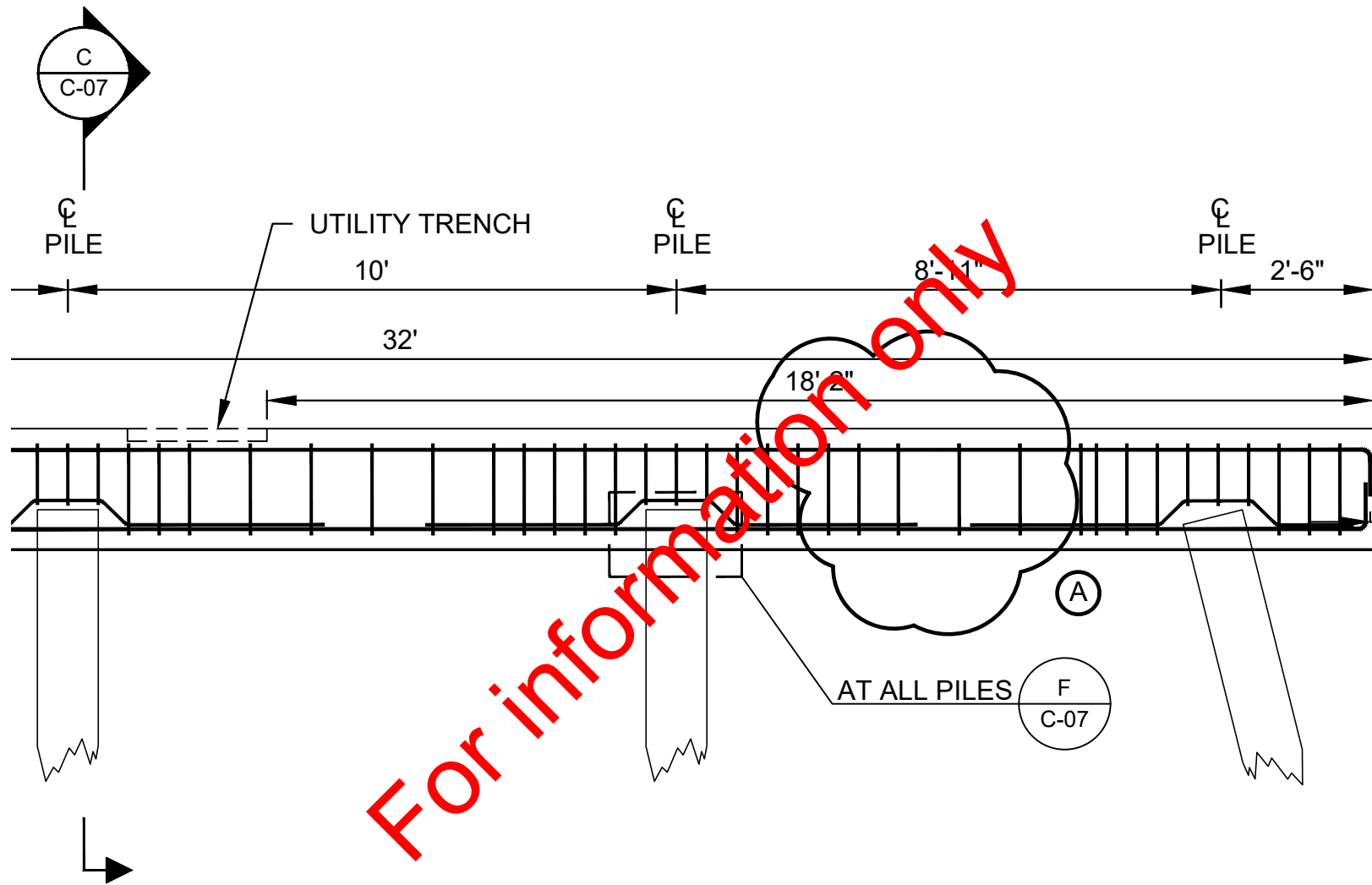


B PROPOSED PIER SECTION
 C-03 Scale: 1/8" = 1'-0"

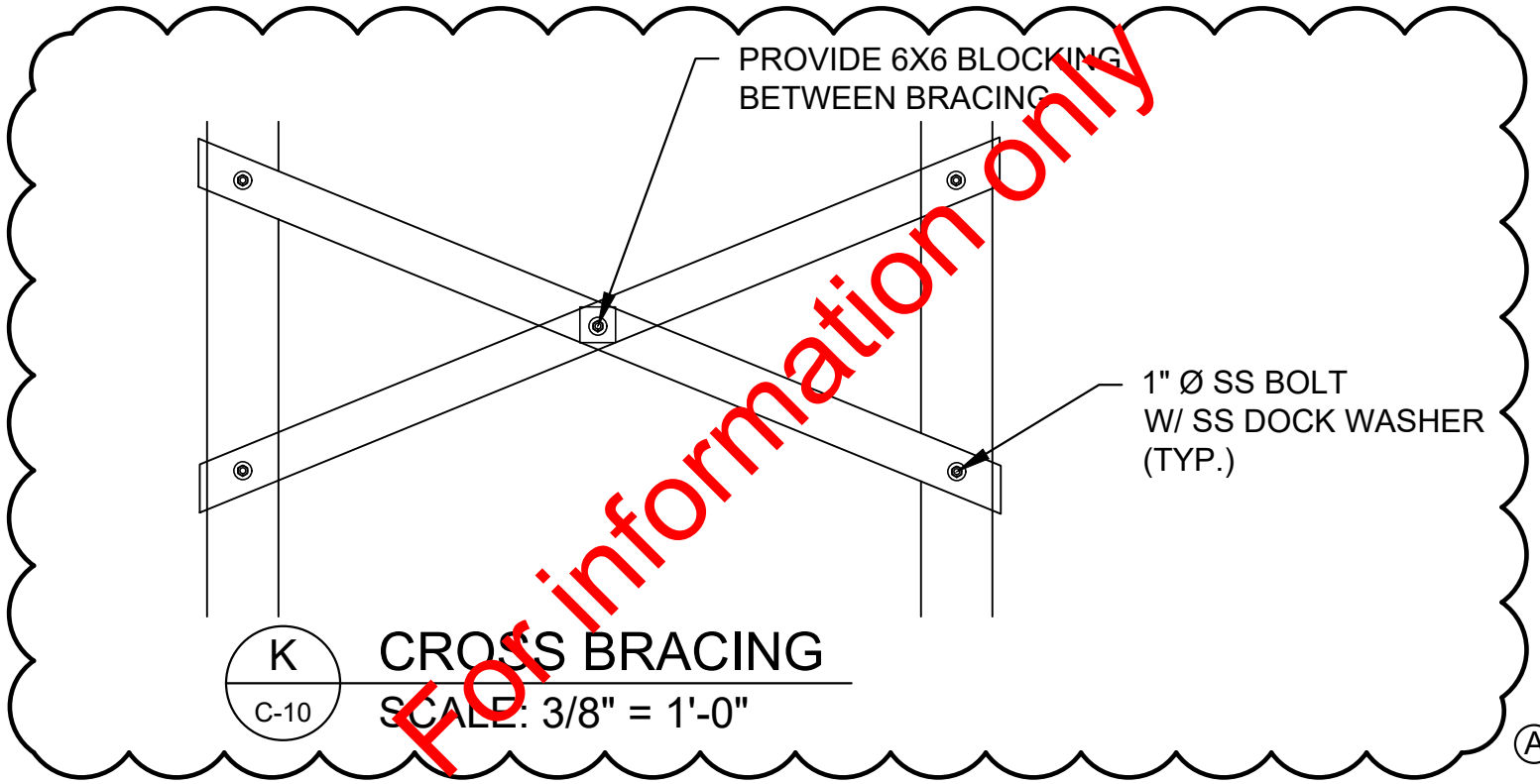




C PROPOSED PIER SECTION
 C-03 Scale: 1/8" = 1'-0"



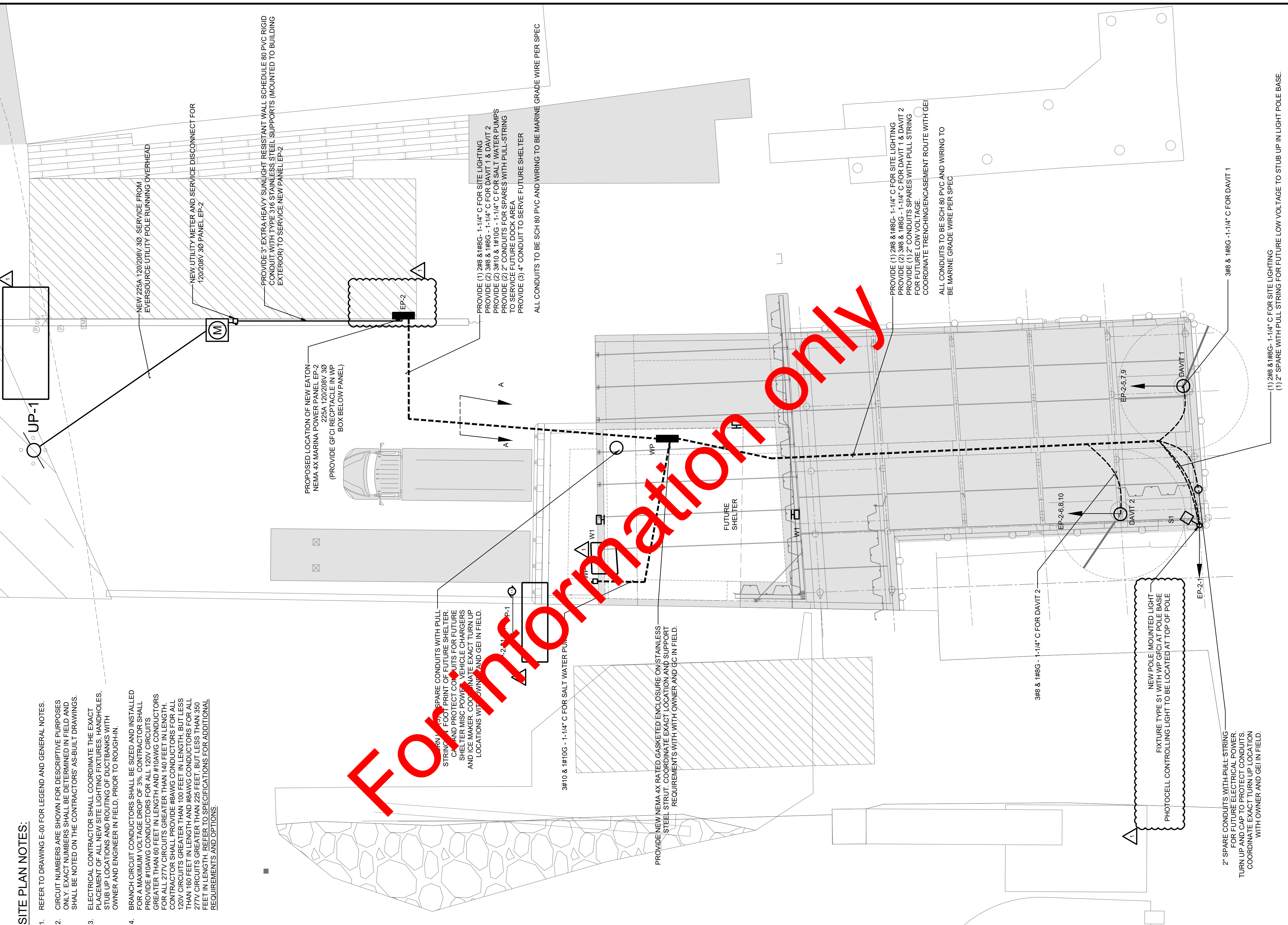
D
C-07
CONC. PILE CAP NO. 3-6 REINF.
 SCALE: 3/8"=1'-0"



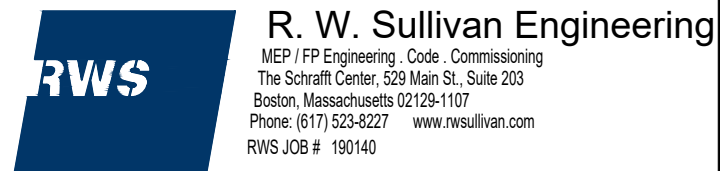
PROPOSED SITE PLAN
SCALE: 1" = 16'-0"

SITE PLAN NOTES:

- REFER TO DRAWING E-00 FOR LEGEND AND GENERAL NOTES.
- CIRCUIT NUMBERS ARE SHOWN FOR DESCRIPTIVE PURPOSES ONLY. EXACT NUMBERS SHALL BE DETERMINED IN FIELD AND SHALL BE NOTED ON THE CONTRACTORS' AS-BUILT DRAWINGS.
- ELECTRICAL CONTRACTOR SHALL COORDINATE THE EXACT PLACEMENT OF ALL NEW SITE LIGHTING FIXTURES, HANDHOLES, STUB-UP LOCATIONS AND ROUTING OF DUCTBANKS WITH OWNER AND ENGINEER IN FIELD, PRIOR TO ROUGH-IN.
- BRANCH CIRCUIT CONDUCTORS SHALL BE SIZED AND INSTALLED FOR A MAXIMUM VOLTAGE DROP OF 3%. CONTRACTOR SHALL PROVIDE #10AWG CONDUCTORS FOR ALL 120V CIRCUITS GREATER THAN 60 FEET IN LENGTH AND #10AWG CONDUCTORS FOR ALL 277V CIRCUITS GREATER THAN 140 FEET IN LENGTH. ALL 120V CIRCUITS GREATER THAN 100 FEET IN LENGTH BUT LESS THAN 180 FEET IN LENGTH AND #8AWG CONDUCTORS FOR ALL 277V CIRCUITS GREATER THAN 225 FEET, BUT LESS THAN 350 FEET IN LENGTH. REFER TO SPECIFICATIONS FOR ADDITIONAL REQUIREMENTS AND OPTIONS.



For information only



NO.	DATE	ISSUE/REVISION	APP
1	10/18/2019	ADDENDUM 1	
0	9/25/2019		



Designed:	ZL
Checked:	ARH
Drawn:	ZL
Approved By:	ARH

Town of Chatham
549 Main Street
Chatham, MA 02633
GEI Project 1900325

Trap Dock Reconstruction
Chatham, MA
ELECTRICAL SITE PLAN

DWG. NO.	E-03
SHEET NO.	

LIGHTING FIXTURE SCHEDULE

DESCRIPTION	LIGHT FIXTURE ACCEPTABLE MANUFACTURERS AND CATALOG NUMBER		TYPE	LUMENS	COLOR	VOLTS	WATTS	NOTES
	MANUFACTURER	CATALOG NUMBER						
NON MOUNT AREA 18' 4" MARINE GRADE WATER-PROOF COVER	TECHLIGHT	LSBW-3-C-8-T4-D-1-SP-PMH (MARINE GRADE - COLOR TO MATCH EXISTING)	LED	11975	5000K	UNIV	122W	COLORS TO MATCH EXISTING POLES IN ADJACENT DOCK
	LYTE POLES							
LED WALL PACK	TECHLIGHT	LHMWP-1-C-M-T3-D-1-BZ	LED	11096	5000K	UNIV	108W	

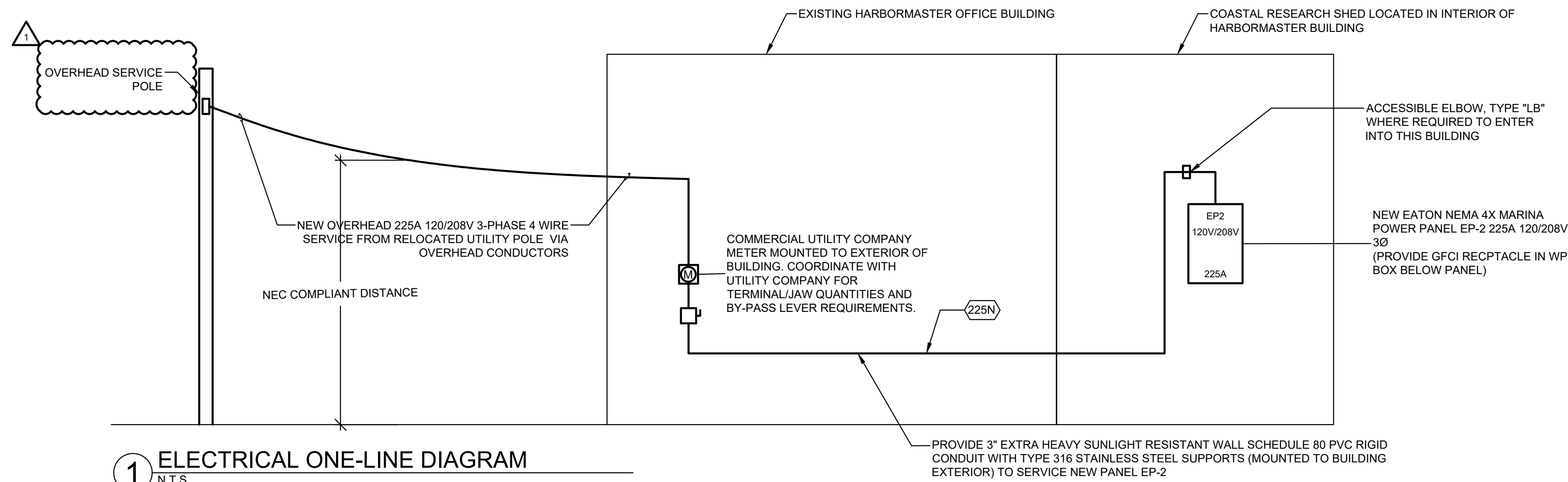
APPLICABLE LIGHTING FIXTURES. THE REMARKS COLUMN SHALL NOTE ADDITIONAL REQUIREMENTS.)

QUALITY NUMBERS ESTABLISH QUALITY LEVEL FOR FIXTURES. EC SHALL PROVIDE SITE LIGHTING MODEL, FOR THIS PARTICULAR SITE, DEPICTING ALTERNATE FIXTURES.

INSTALLATIONS AND PROVIDE APPROPRIATE ACCESSORIES AND HARDWARE TO ACCOMMODATE REQUIREMENTS. FOUNDATION OF POLE (POLE BASE) SHALL BE CONCRETE OR PRE-CAST MANUFACTURER.

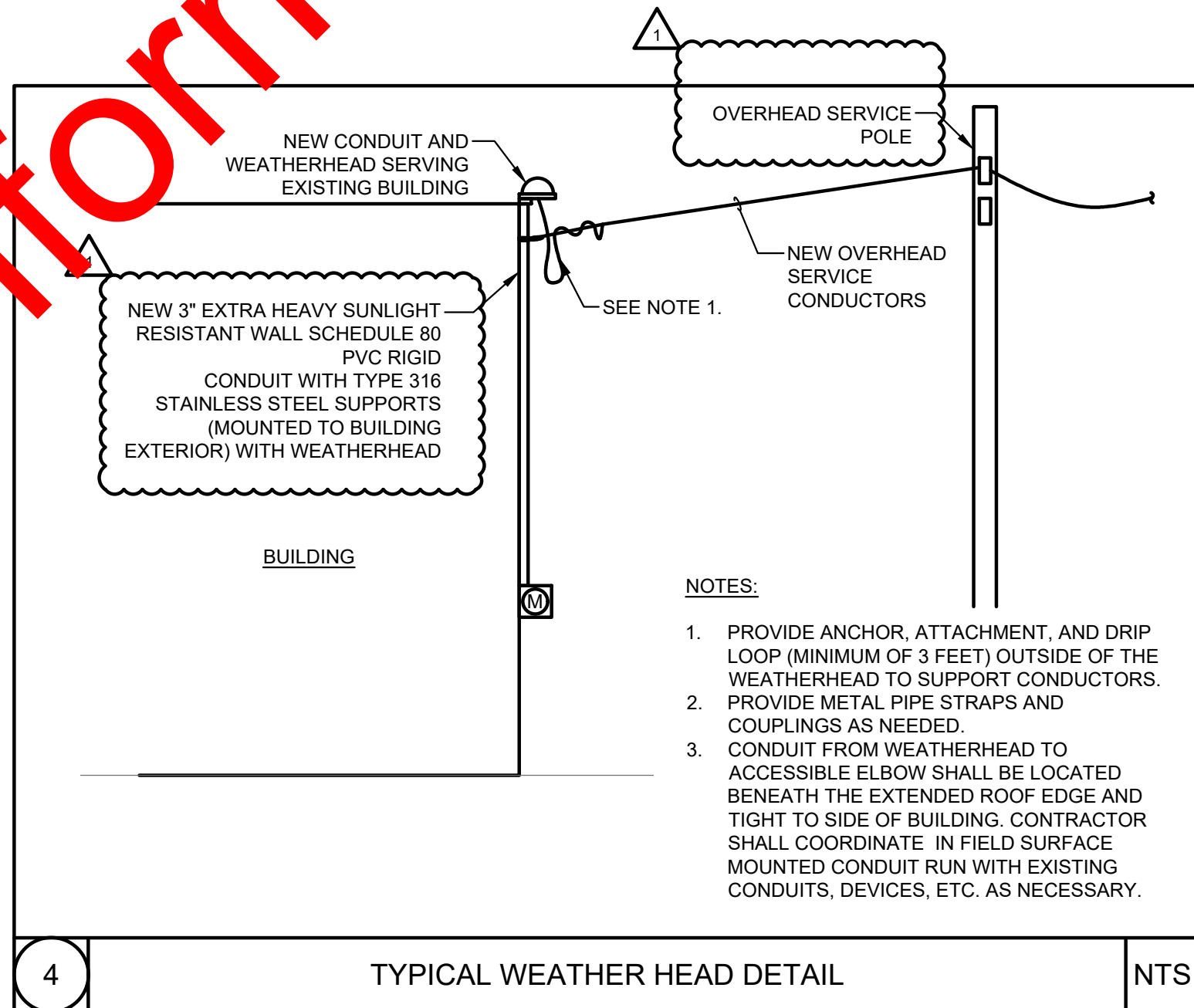
NEW PANEL SCHEDULE "EP-2"									
VOLTS	120/208							MAINS	200A
PHASE	3Ø							BUSSING	200A
WIRE	4W								
A.I.C.	22K							MOUNTING	SURFACE
CIRCUIT	SERVICE DESCRIPTION	BREAKER	A	B	C	BREAKER	SERVICE DESCRIPTION	CIRCUIT	
1	SITE LIGHTING	20A-1P	•			20A-1P	GFCI PANEL RECEPTACLE	2	
3	SPARE	20A-1P		•		20A-1P	SPARE	4	
5	DAVIT #1	20A-3P			•	20A-3P	DAVIT #2	6	
7			•					8	
9				•				10	
11	SPARE	20A-1P			•	20A-1P	SPARE	12	
13	SPARE	20A-1P	•			20A-1P	SPARE	14	
15	SPARE	20A-1P		•		20A-1P	SPARE	16	
17	SPARE	20A-1P			•	20A-1P	SPARE	18	
19	SPARE	20A-1P	•			20A-1P	SPARE	20	
21	SPARE	20A-1P		•		20A-1P	SPARE	22	
23	SPARE	20A-1P			•	20A-1P	SPARE	24	
25	SPACE		•				SPACE	26	
27	SPACE			•			SPACE	28	
29	SPACE				•		SPACE	30	
31	SALT WATER PUMP 1	15A-3P	•			20A-3P	SPARE	32	
33				•				34	
35					•			36	
37	SPARE	15A-3P	•			15A-3P	SPARE	38	
39				•				40	
41					•			42	

1



1 ELECTRICAL ONE-LINE DIAGRAM
N.T.S.

LEGEND OF FEEDER SIZES - COPPER CONDUCTORS					
FEEDER TAG SYMBOL	CONDUCTORS (3-PHASE, 3-WIRE WITH GROUND) OR (1-PHASE, 3-WIRE WITH GROUND)	RACEWAY SIZE CONDUIT	CONDUCTORS (3-PHASE, 4-WIRE WITH GROUND)	RACEWAY SIZE CONDUIT	NOMINAL AMPERE RATING
20	3#12 & 1#12G.	3/4"			20
20N			4#12 & 1#12G.	3/4"	
30	3#10 & 1#10G.	3/4"			30
30N			4#10 & 1#10G.	3/4"	
40	3#8 & 1#8G.	1"			40
40N			4#8 & 1#8G.	1"	
50	3#6 & 1#6G.	1"			50
50N			4#6 & 1#6G.	1"	
60	3#4 & 1#4G.	1"			60
60N			4#4 & 1#4G.	1 1/4"	
70	3#4 & 1#8G.	1"			70
70N			4#4 & 1#8G.	1 1/4"	
80	3#3 & 1#8G.	1 1/4"			80
80N			4#3 & 1#8G.	1 1/4"	
90	3#2 & 1#8G.	1 1/4"			90
90N			4#2 & 1#8G.	1 1/4"	
100	3#1 & 1#8G.	1 1/2"			100
100N			4#1 & 1#8G.	1 1/2"	
125	3#1/0 & 1#6G.	1 1/2"			125
125N			4#1/0 & 1#6G.	2"	
150	3#1/0 & 1#6G.	1 1/2"			150
150N			4#1/0 & 1#6G.	2"	
175	3#2/0 & 1#6G.	2"			175
175N			4#2/0 & 1#6G.	2"	
200	3#3/0 & 1#6G.	2"			200
200N			4#3/0 & 1#6G.	2"	
225	3#4/0 & 1#4G.	2"			225
225N			4#4/0 & 1#4G.	2 1/2"	
250	3#250 KCMIL & 1#4G.	2 1/2"			250
250N			4#250 KCMIL & 1#4G.	3"	
300	3#350 KCMIL & 1#4G.	3"			300
300N			4#350 KCMIL & 1#4G.	3"	
350	3#500 KCMIL & 1#3G.	4"			350
350N			4#500 KCMIL & 1#3G.	4"	
400	3#600 KCMIL & 1#3G.	4"			400
400N			4#600 KCMIL & 1#3G.	4"	
500	6#250 KCMIL & 2#2G.	(2) 3"			500
500N			8#250 KCMIL & 2#2G.	(2) 3"	
600	6#350 KCMIL & 2#1G.	(2) 3"			600
600N			8#350 KCMIL & 2#1G.	(2) 3"	
800	6#600 KCMIL & 2#1/0G.	(2) 4"			800
800N			8#600 KCMIL & 2#1/0G.	(2) 4"	
1000	9#500 KCMIL & 3#2/0G.	(3) 4"			1000
1000N			12#500 KCMIL & 3#2/0G.	(3) 4"	
1200	9#600 KCMIL & 3#3/0G.	(3) 4"			1200
1200N			12#600 KCMIL & 3#3/0G.	(3) 4"	
1600	12#600 KCMIL & 4#4/0G.	(4) 4"			1600
1600N			16#600 KCMIL & 4#4/0G.	(4) 4"	
2000	15#600 KCMIL & 5#250 KCMIL G.	(5) 4"			2000
2000N			20#600 KCMIL & 5#250 KCMIL G.	(5) 4"	
2500	18#600 KCMIL & 6#350 KCMIL G.	(6) 4"			2500
2500N			24#600 KCMIL & 6#350 KCMIL G.	(6) 4"	
3000	24#500 KCMIL & 8#500 KCMIL G.	(8) 4"			3000
3000N			32#500 KCMIL & 8#500 KCMIL G.	(8) 4"	
4000	30#600 KCMIL & 10#500 KCMIL G.	(10) 4"			4000
4000N			40#600 KCMIL & 10#500 KCMIL G.	(10) 4"	



4 TYPICAL WEATHER HEAD DETAIL
N.T.S.

RWS R. W. Sullivan Engineering
MEP/FP Engineering, Code Commissioning
The Schraft Center, 529 Main St., Suite 203
Boston, Massachusetts 02129-1107
Phone: 617-524-9227 www.rwsullivan.com
RWS JOB # 190140

Attention:				
	1	10/18/2019	ADDENDUM 1	
	0	9/25/2019		
NO.	DATE	ISSUE/REVISION	APP	

GEI Consultants

Designed: ZL
Checked: ARH
Drawn: ZL
Approved By: ARH

Town of Chatham
549 Main Street
Chatham, MA 02633
GEI Project 1900325

Trap Dock Reconstruction
Chatham, MA
ELECTRICAL
ONE LINE DIAGRAM

DWG. NO.
E-05
SHEET NO.