CITY OF CORDOVA

South Harbor Rebuild Request for Proposals
ADDENDUM # 6

TO: All Potential Bidders

DATE: 10/27/22

This addendum forms a part of the South Harbor Rebuild Request for Proposals

Addendum #6 Questions and Answers

This addendum is issued to modify the previously issued proposal documents and/or given for informational purposes and is hereby made a part of the proposal documents. Please attach this addendum to the documents in your possession.

City of Cordova

Signed: *Samantha Greenwood*

Print: Samantha Greenwood

Its: Public Works Director, City of Cordova

1. **Question:** What is the maximum number of duplex pedestals allowed to be fed per feeder? A duplex pedestal feeds two slips(boats).
   Response: Design to ensure that the possible maximum ground current is less than 100 mA on a feeder.

2. **Question:** Is it acceptable to relax this requirement when the nearest pedestals are more that 3x mounting height apart from each other?
   Response: A uniformity ratio of 6:1 is acceptable. Mount the luminaires on top of the pedestals with the bottoms above 4 feet elevation.

3. **Question:** Should a requirement be added that prohibits any light leaving a luminaire above 90 degrees from nadir (nadir is straight down)?
   Question: Should a requirement be added that limits the light leaving a luminaire above 85 degrees from nadir to less than 10% of the total light output? (This is typical for a low glare luminaire).
   Response: Provide the luminaires with a nadir of 85 degrees or less with less than 10 percent of the luminance above 85 degrees.

4. **Question:** What is the transformer size, primary voltage, secondary voltage, and percent impedance at this transformer?

   Question: What is the available fault current on the primary side of the transformer and X/R ratio?

   Question: Who will pay for the new utility services to the harbor (primary extensions, transformers)? Where does the contractor's responsibility start? At the utility transformer, or at the CTs?

   Response: The transformers will be provided by the utility, Cordova Electric Co-op; the transformer characteristics can be obtained from them. Design and construct the service equipment based on the utility's requirements.

   Cordova Electric Co-op contacts:
   Scott Newlun snewlun@cordovaelectric.com
   Clay Koplin ckoplin@cordovaelectric.com

5. **Question:** 4.8.2 only states a main circuit breaker with distribution panels on the floating docks. May a distribution section be located at the top of the gangway?
   Response: The service equipment shall be onshore in compliance with the NEC. The distribution sections may be located at the top of the gangway and/or on the floating docks.

6. **Question:** Is a 480Y:277 voltage service and distribution around the floats allowed?
   Response: 480Y/277 volt power may be distributed on the floats.

7. **Question:** Are separate floats allowed that hold power centers or panels to reduce the weight and asymmetric loading on the main floats?
   Response: Separate utility floats supporting power centers and distribution panels are allowed as long as the required slip count is maintained. This shall be addressed with the design.

8. **Question:** Do these covers have to be lockable in the closed position? For receptacles, are they required to be locked in the closed position with a cord plugged into the receptacle?
   Response: Provide hinged covers that are lockable in the closed position with standard cords in place.

9. **Question:** Section 4.8.3 C requires extra capacity in the MDP's for (4) 100 amp pedestals per RFP section 3.6B. Please provide RFP section 3.6B.
   Response: Delete the reference to RFP Section 3.6B. Provide distribution panel circuit space for four 100 ampere, three pole circuit breakers to allow for possible future loads.

10. Shore-Tie Pedestals
    Question: Does this capacity only have to be provided in one panel location?
    Response: Provide this capacity for all distribution panels.

    Question: Is one 400/3 circuit breaker required or are (4) 100/3 circuit breakers required?
    Response: Provide four each 100/3 circuit breaker spaces.

    Question: Is the 100 ampere requirement three phase or single phase?
    Response: See above

11. **Question:** Does all of the interior panels, mounting brackets, structure, covers, etc. have to be 316 stainless steel or just the outer enclosure?
    Response: All portions of enclosures and their ancillary components exposed to sea spray shall be 316 stainless steel.

    Question: Is there a minimum thickness of 316 stainless steel? 316 is not very strong and a deck mounted pedestal is subject to much more physical abuse than a post mounted powerhead. We have found 3/16" thickness to be required for reasonable protection from damage in Alaska's working harbors.
    Response: Provide the enclosure metal thickness and structure to withstand normal physical abuse.

12. **Question:** What schedule of fiberglass conduit is required Schedule 40, 80, or extra high impact?
    Response: Schedule 40 may be used where subject to light abuse, and Schedule 80 shall be used where subject to heavy abuse.

13. **Question:** What type of fiberglass conduit is required?
    Response: Provide the type of fiberglass conduit that complies with the abuse and service life requirements.

14. **Question:** Is the fiberglass conduit for any exposed conduit on the trestles and gangways?
    Response: Conduit shall be provided to support circuits on approach trestles and gangways.

15. **Question:** Is fiberglass conduit required underground in the uplands or is schedule 80 PVC allowed with galvanized steel elbows?
    Response: Schedule 80 PVC and Fiberglass conduit are acceptable for underground installations with steel or fiberglass extensions within five feet of exposure above grade.

16. The electrical system is required to have a design service life of 50 years.

Response: In general, the electrical system and its components shall comply with a 50 year service life. Design and construct in a manner that meets that requirement. Some replaceable components may have a shorter renewable life span, as listed in Table One:

Component	**Renewal Period (Every X Years)**
Detailed above/underwater inspection and routine maintenance	5
Underwater power-wash/clean marine growth	10
Timber Decking (if any), Rubboards & Bullrails	30
Anodes	20
LED light fixtures	5
Heat Trace (service lines on gangway, fire and water risers)	10-15
Flex hose flanges, Hose bibs & fire valve handles	5-10
Circuit Breakers:	20
Receptacles	15
Customer Meters and Relays	20
Luminaires and Lighting Controls	15

17. **Question:** Will a Daily Quality Management (DQM) reporting program be required for dredging?
    Response: Weekly reporting will be required.

18. **Question:** Appendix F 4.1.2.H states ("All floats shall be designed such that utility conduits under decking remain dry under applying DL + LL"). Please confirm the live load referenced in this paragraph is 40 psf as defined Appendix F 3.7.1.A

Response: Live loads are outlined in 3.7.1.A through G. The DB shall also specifically consider snow load; as noted in 4.1.2.C.

19. **Question:** Section 4.1.1 J states Float walking surfaces shall be non-slip material. Will roughened timber deck boards be acceptable as non-slip material?
    Response: Mill surfacing typically accepted in the industry for pedestrian walking surfaces will be acceptable.

20. **Question:** Section 4.1.1 R states Vessel mooring cleats shall be provided on all 32 foot stalls. Will the 12'' cast iron cleats be subject to the buy America/American clause?
    Response: Buy America applies to the project.

21. **Question:** What, if any, utilities are required on O float?
    Response: Install two Pedestals on the west and east ends of the O float. Pedestals shall have lighting, water, fire water connections, and 120volt 30amp power

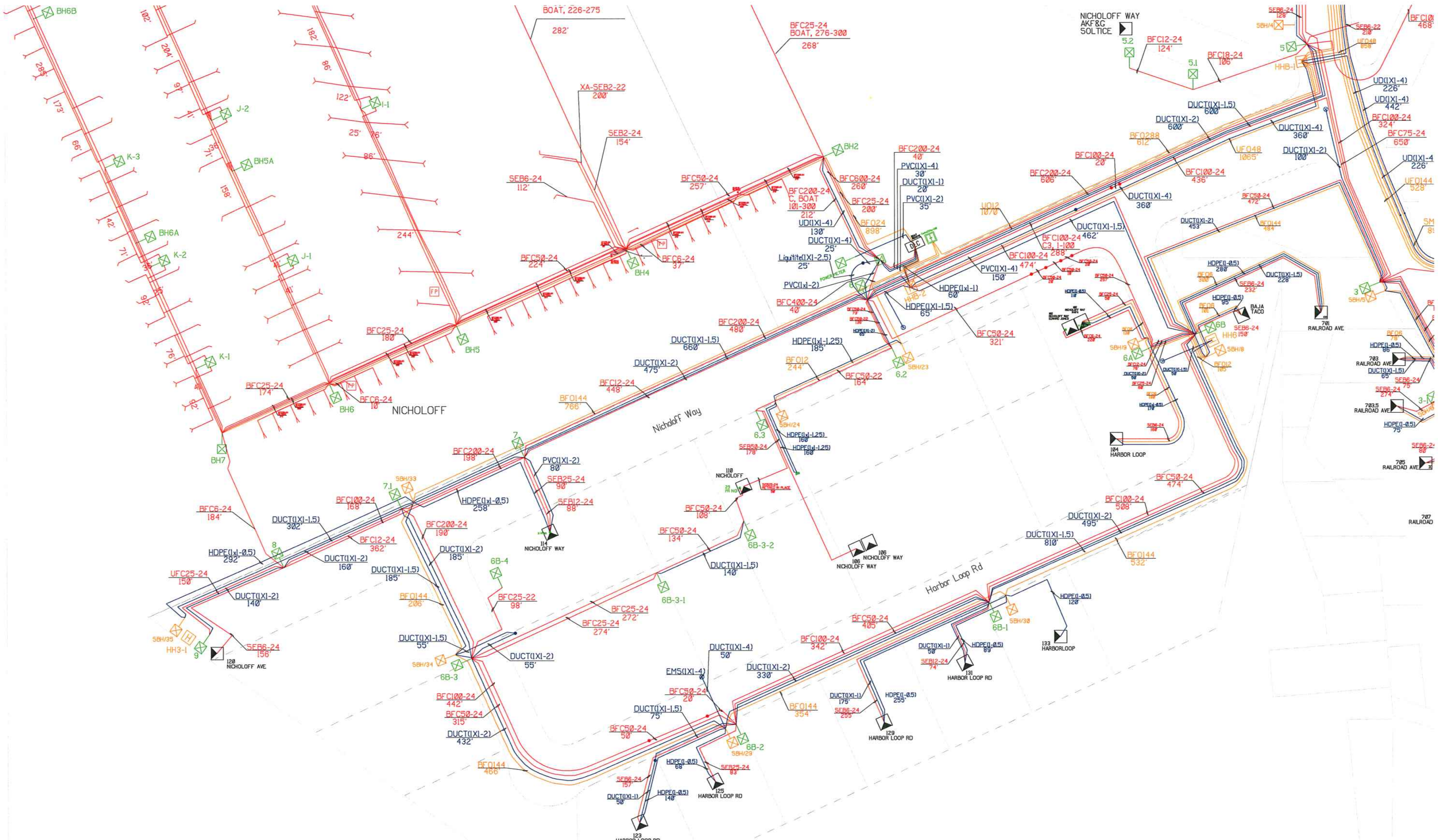
22. **Question:** Is there any fuel related work?
    There are no fuel lines or docks in the harbor or the uplands.

23. **Question:** Are any as-builts available?
    Response: There are limited drawings, none certified as built. The not existing conditions may differ from these drawings, and it is the Contractor's responsibility to verify.

24. **Question:** Is there data/comm work
    Response: There is no data/comms work required for the project.
    Attached is the Cordova Telephone and Cordova Electric upland drawings.

25. **Question:** Will Owner pay for off-site stored material?
    Response: No. The City has provided staging/storage areas near the harbor. Locations and square footage are provided in Appendix D.

26. **Question:** Control system for fire suppression
    Response: It's a dry standpipe system that shall have charging stations in the uplands where the fire dept can connect with the fire truck



BH6B
BOAT, 226-275
282'
BFC25-24
BOAT, 276-300
268'
NICHOLOFF WAY
AKF&G
SOLTICE
BFC12-24
124'
BFC18-24
106'
XA-SEB2-22
200'
SEB2-24
154'
SEB6-24
112'
J-2
I-1
K-3
BH5A
BH6A
K-2
J-1
K-1
BH2
BH4
BH5
BH6
BH7
NICHOLOFF
BFC50-24
257'
BFC50-24
224'
BFC6-24
37'
BFC25-24
180'
BFC25-24
174'
BFC6-24
10
BFC200-24
40'
PVC(1X1-4)
30'
DUCT(1X1-1)
20'
PVC(1X1-2)
35'
BFC600-24
260'
BFC200-24
C, BOAT
101-300
212'
BFC25-24
200'
BFO24
898'
UD(1X1-4)
130'
DUCT(1X1-4)
25'
Liquitite(1X1-2.5)
25'
PVC(1x1-2)
BFC400-24
40'
HDPE(1x1-1)
60'
HDPE(1X1-1.5)
65'
BFC50-24
321'
PVC(1X1-4)
150'
UO12
1070'
BFC200-24
606'
BFC100-24
20'
DUCT(1X1-4)
360'
BFC100-24
C3, 1-100
288'
BFC100-24
474'
DUCT(1X1-1.5)
462'
DUCT(1X1-1.5)
600'
DUCT(1X1-2)
600'
BFO288
612'
UFO48
1065'
BFC100-24
436'
DUCT(1X1-4)
360'
DUCT(1X1-2)
100'
UD(1X1-4)
226'
UD(1X1-4)
442'
BFC100-24
324'
BFC75-24
650'
UFO144
528'
DUCT(1X1-2)
453'
BFC50-24
472'
DUCT(1X1-1.5)
228'
HDPE(1-0.5)
288'
SEB6-24
232'
BAJA
TACO
701
RAILROAD AVE
703
RAILROAD AVE
703.5
RAILROAD AVE
705
RAILROAD AVE
707
RAILROAD
BFC200-24
480'
DUCT(1X1-1.5)
660'
HDPE(1x1-1.25)
185'
BFO12
244'
BFC50-22
164'
DUCT(1X1-2)
475'
BFC12-24
448'
BFO144
766'
Nicholoff Way
6.2
6.3
SBH/23
SBH/24
HDPE(1x1-1.25)
160'
BFC200-24
198'
PVC(1X1-2)
80'
SEB25-24
90'
SEB12-24
88'
7
7.1
SBH/33
BFC100-24
168'
HDPE(1x1-0.5)
258'
114
NICHOLOFF WAY
110
NICHOLOFF
BFC50-24
108'
BFC50-24
134'
6B-3-2
DUCT(1X1-1.5)
140'
100
NICHOLOFF WAY
106
NICHOLOFF WAY
104
HARBOR LOOP
BFC6-24
184'
DUCT(1X1-1.5)
302'
BFC12-24
362'
BFC200-24
190'
DUCT(1X1-2)
185'
DUCT(1X1-1.5)
185'
HDPE(1x1-0.5)
292'
DUCT(1X1-2)
160'
UFC25-24
150'
DUCT(1X1-2)
140'
BFO144
206'
6B-4
BFC25-22
98'
6B-3-1
BFC25-24
272'
BFC25-24
274'
BFC50-24
474'
BFC100-24
508'
DUCT(1X1-2)
495'
DUCT(1X1-1.5)
810'
BFO144
532'
Harbor Loop Rd
HDPE(1-0.5)
120'
6B-1
SBH/30
133
HARBORLOOP
SBH/35
HH3-1
9
SEB6-24
156'
120
NICHOLOFF AVE
DUCT(1X1-1.5)
55'
SBH/34
6B-3
DUCT(1X1-2)
55'
BFC100-24
442'
BFC50-24
315'
DUCT(1X1-2)
432'
BFO144
466'
DUCT(1X1-4)
50'
EMS(1X1-4)
BFC50-24
20'
DUCT(1X1-1.5)
75'
BFC50-24
50'
DUCT(1X1-2)
330'
BFC100-24
342'
BFC50-24
405'
BFO144
354'
131
HARBOR LOOP RD
129
HARBOR LOOP RD
6B-2
SBH/29
125
HARBOR LOOP RD
123
HARBOR LOOP RD


Nicholoff Way
Harbor Loop Rd
Native Village of Eyak
RAILROAD AVE
HARBOR LOOP RD
Google
Map data ©2022 Imagery ©2022 CNES / Airbus, Maxar Technologies


XF130
XF136
XF137


425-2
425-4
493
750
163
25


M
L
NEW HARBOR
NICHOLOFF WAY
HARBOR LOOP RD.
HARBOR MASTER
NAPA
AC
STORE
1
2
3
4
5
6
7
8
9
10
11
12