Ivins City Staff Report
City Council Meeting 6/21/2018

Agenda Item: Approval of amount to purchase material for retaining walls at Fire Lake Park.

Submitted by: Benny Sorensen

Recommended City Council Action: Approve expenditure of an amount, not to exceed $27,250.00 for the purchase and shipping of pre-cast concrete block for the retaining walls on the peninsula at Fire Lake Park.

BACKGROUND: As part of the construction work at Fire Lake Park, the plan calls for two retaining walls to help improve the use of the peninsula at the park. These retaining walls will help create a level area for the path and for a grass area, create more area for sand on the west side of the large part of Ivins reservoir and will provide an area where people can sit in the sand or on the wall near the water.
We have looked at doing the wall in plain formed concrete and have received three quotes to have it done this way. We also looked at using the precast concrete blocks that we have used at Desert Rose Park and that we are currently installing at the cemetery. As we worked with the representative from Olympus precast we found that we could use their product to accomplish what needed to be done on the peninsula retaining walls.
The bids to have the wall formed were much more than to purchase the precast blocks for the wall. We felt it would be worth going with the precast block, because we can do the labor with our staff and we feel that it will be much better looking than plain formed concrete walls.

FINDINGS AND ANALYSIS:

- Purchasing the precast materials and installing the wall in house will cost less than having it done by others.
- The precast option will function as well as the poured-on site walls and the precast has better drainage ability for water coming from either side of the wall.
- The precast product will be a much more attractive finished product than the formed concrete walls.
- Our staff is experienced at installing these types of walls.
- We have worked with Olympus Precast previously and they have delivered a quality product on time.

SUPPORT MATERIALS:

- Bid amounts
- Drawing showing location of the retaining walls as well as details #1 and #2. The details are for a formed and poured in place wall, but the precast wall will accomplish the same objective.

FINANCIAL IMPACT:
Funds for this expenditure were budgeted in FYE 2017/18 budget line item number 49-4069.9 to reflect that the work will be done in Fire Lake Park.

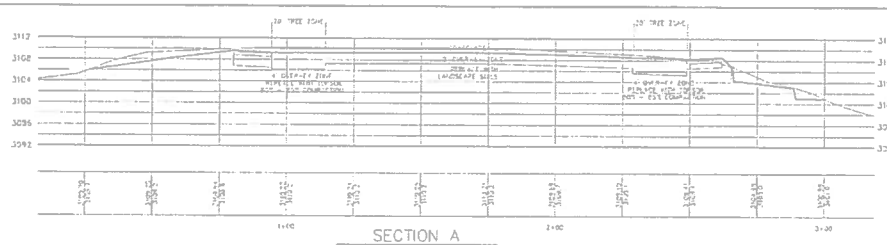
Respectfully Submitted: Benny Sorensen

Benny Sorensen

Content Review:

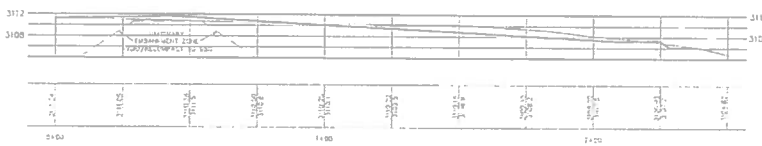
Dale Coulam, City Manager

		HDDI		ACC Bid		PCI		Olympus Precast	
		Unit Price	Total	Unit Price	Total	Unit Price	Total	Unit Price	Total
Detail 1: Stepped Stadium Wall	135	$ 210.00	$ 28,350.00	$ 421.00	$ 56,835.00	$ 220.00	$ 29,700.00	$ 137.04	$ 18,500.00
Detail 2: Beach Toe Wall	125	$ 95.00	$ 11,875.00	$ 261.00	$ 32,625.00	$ 107.00	$ 13,375.00	$ 70.00	$ 8,750.00
			$ 40,225.00		$ 89,460.00		$ 43,075.00		$ 27,250.00



SECTION A

SCALE: HORIZ 1" = 20'
VERT 1" = 10'

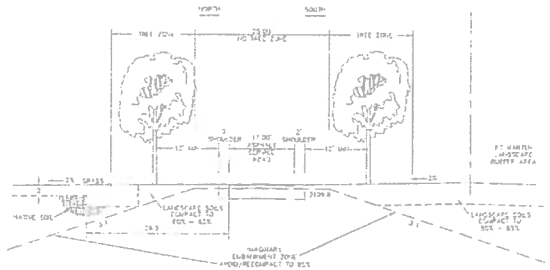


SECTION B

SCALE: HORIZ 1" = 20'
VERT 1" = 10'



SECTION C



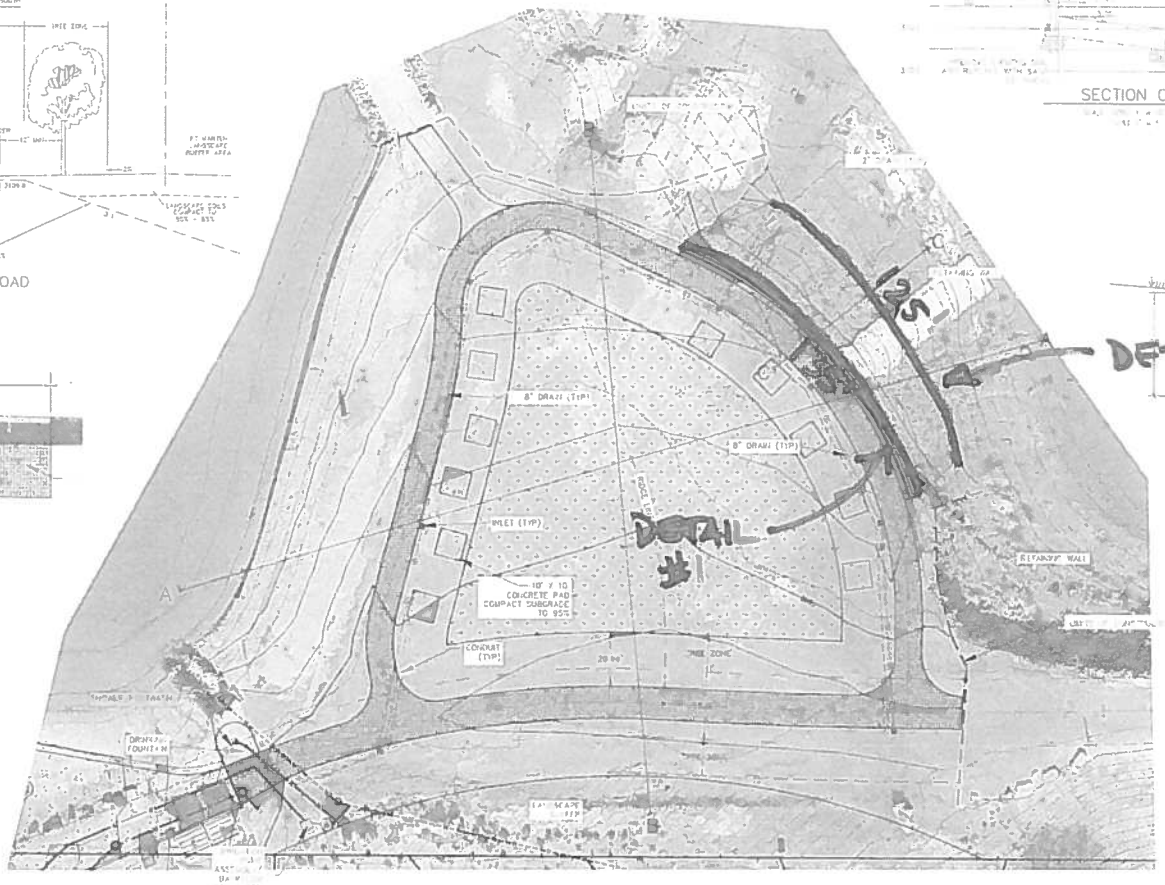
ACCESS ROAD
NTS



TYPICAL ROADWAY
NTS



TYPICAL PATH
NTS





UTILITY TRENCH



20 0 20

KUMA
ENGINEERING COMPANY
409 WEST TIMPANOGOS WAY
PLEASANT GROVE, UT 84062
(435) 229-0744

FIRE LAKE PENINSULA
FIRE LAKE PARK
PREPARED FOR IVINS CITY
PROJECT LOCATED IN SECTION 30, T41S, R16W SLB&M
IVINS, UTAH

05-29-2018

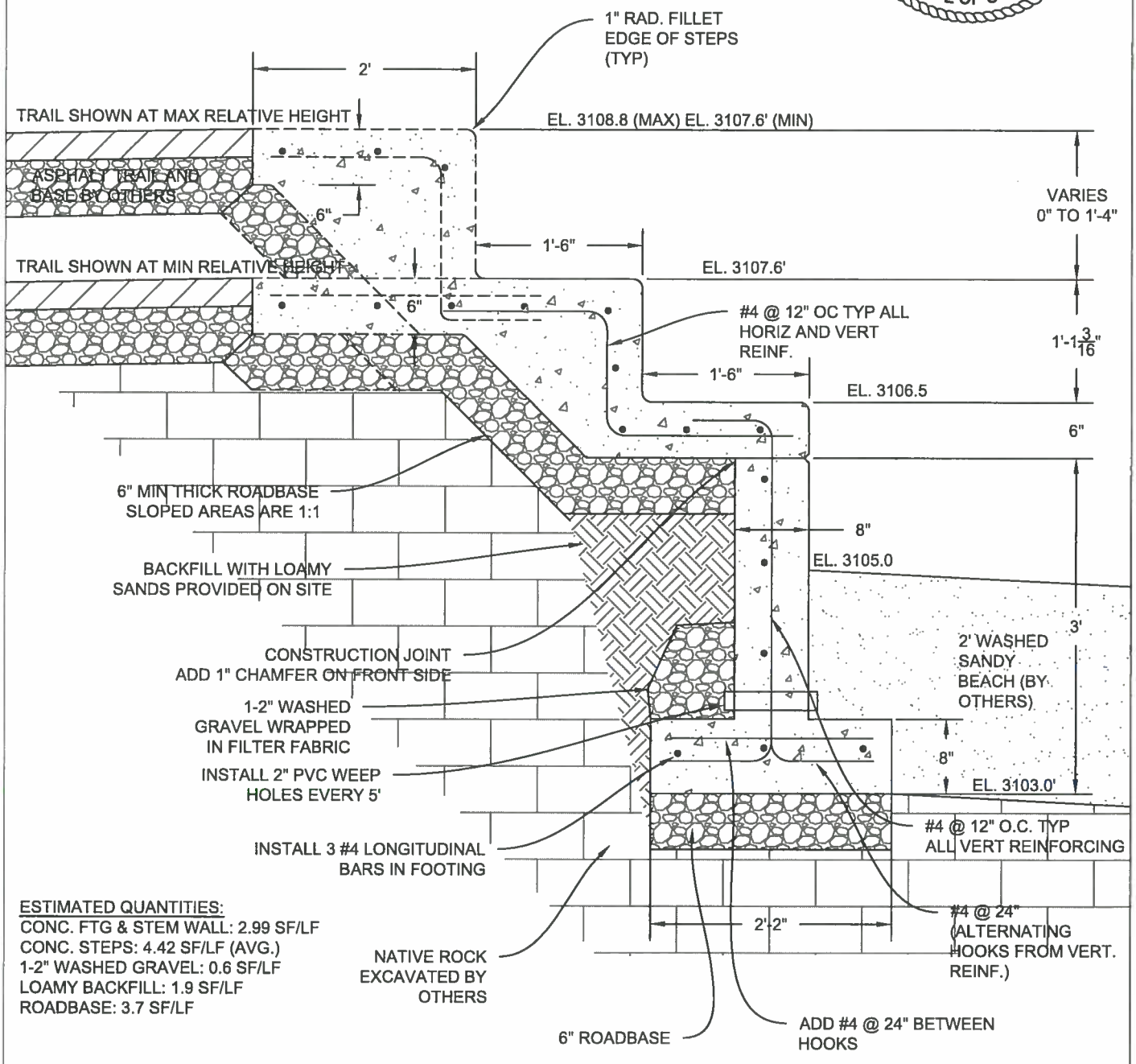
Project: FLP
File: FLP BASE
Date: JAN 2018
Drafted by: BH
Review by: BH

Scale
1 = 20

Sheet No.
GP-3

NOTES:
1. USE CLASS 4000 CONCRETE
2. MAINTAIN 1.5" OF CONCRETE COVER OVER REINFORCING
3. INSTALL 1" CHAMFER STRIPS EVERY 10 FEET ALONG ENTIRE DISTANCE OF WALL
4. MINIMUM REINFORCING OF #4@12 OC IN ALL DIRECTIONS ON WALLS AND SLABS UNLESS SHOWN AND NOTED OTHERWISE IN DIAGRAM.
5. HORIZONTAL SLABS SHALL HAVE A ROUGH BROOM FINISH.

LICENSED PROFESSIONAL ENGINEER
No. 343721
CHARLES R. GILLETTE
STATE OF UTAH



ESTIMATED QUANTITIES:
CONC. FTG & STEM WALL: 2.99 SF/LF
CONC. STEPS: 4.42 SF/LF (AVG.)
1-2" WASHED GRAVEL: 0.6 SF/LF
LOAMY BACKFILL: 1.9 SF/LF
ROADBASE: 3.7 SF/LF

IVINS CITY
55 N. Main Street
Ivins, Utah 84738
435-634-0689
435-674-5486 (fax)

SCALE: NTS
DATE: 6/11/2018
DWG BY: CRG
CKD BY: CRG

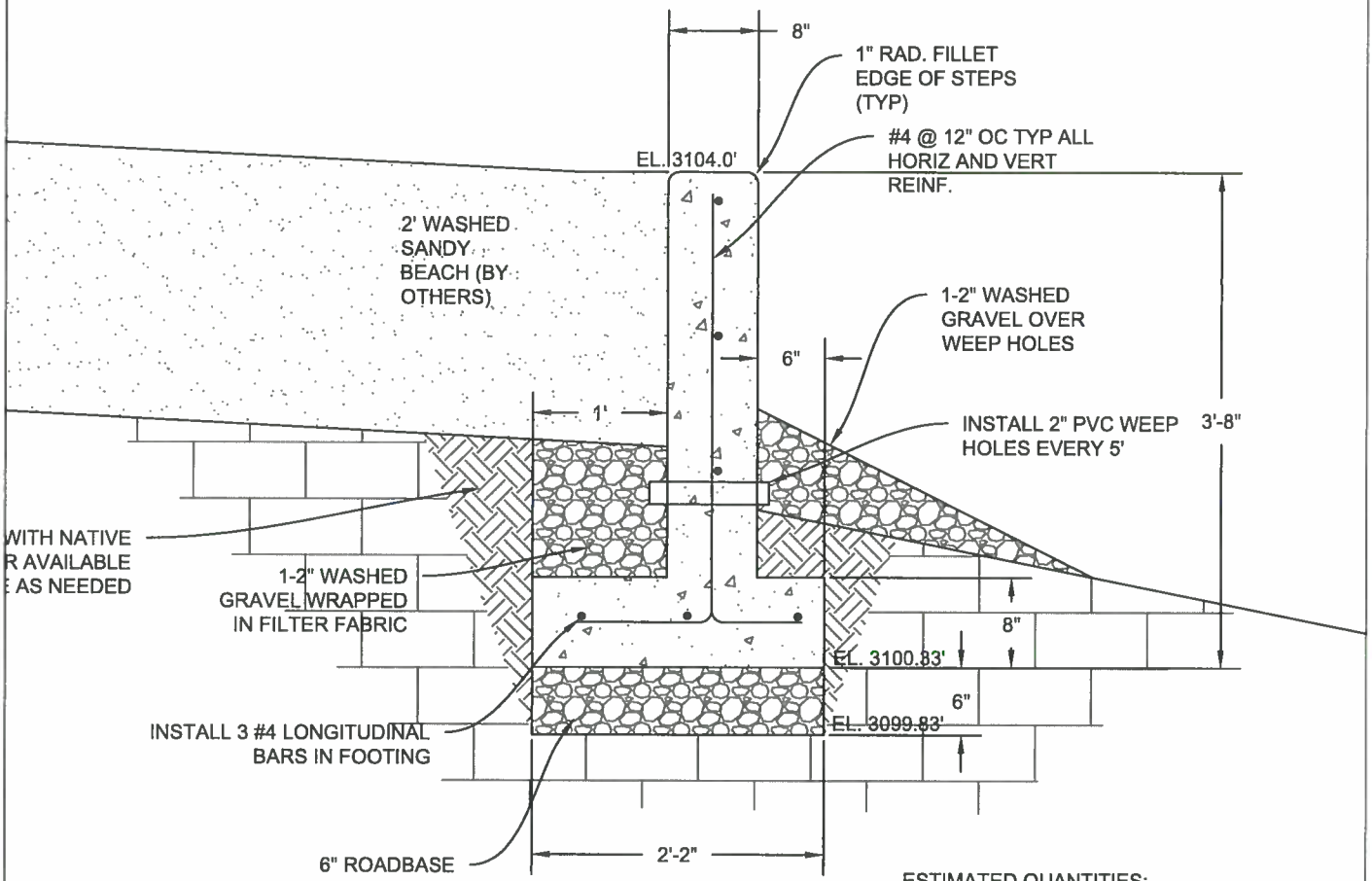
FIRE LAKE AT IVINS RESERVOIR
DETAIL 1
EAST BEACH STEPPED WALL DETAIL

IVINS CITY
UTAH

NOTES:

1. USE CLASS 4000 CONCRETE
2. MAINTAIN 1.5" OF CONCRETE COVER OVER REINFORCING
3. INSTALL 1" CHAMFER STRIPS EVERY 10 FEET ALONG ENTIRE DISTANCE OF WALL
4. MINIMUM REINFORCING OF #4@12 OC IN ALL DIRECTIONS ON WALLS AND SLABS UNLESS SHOWN AND NOTED OTHERWISE IN DIAGRAM.
5. BROOM FINISH TOP OF CONCRETE WALL.

LICENSED PROFESSIONAL ENGINEER
No. 343721
CHARLES R. GILLETTE
STATE OF UTAH



ESTIMATED QUANTITIES:
CONC. FTG & STEM WALL: 3.32 SF/LF
1-2" WASHED GRAVEL WRAPPED IN FABRIC: 1.0 SF/LF
NATIVE BACKFILL: 1.5 SF/LF
ROADBASE: 1.1 SF/LF

IVINS CITY
55 N. Main Street
Ivins, Utah 84738
435-634-0689
435-674-5486 (fax)

SCALE: NTS
DATE: 6/11/2018
DWG BY: CRG
CKD BY: CRG

FIRE LAKE AT IVINS RESERVOIR
DETAIL 2
EAST BEACH TOE WALL

IVINS CITY
UTAH