Preliminary Acceptance (PA) Punchlist
EPC - DPW - Stormwater Section

Project Name:	Hills at Lorson Ranch
EDARP Filing Number(s):	SF2110, PUDSP203, CDR207, PUDSP216
ESQCP Number:	ESQ2033
Attendees:	DPW SW: Natasha Grimaldo, Ben Jones DPW Planning: N/A Developer: Jeff Mark/Lorson LLC
Date of Walk-Thru:	3/6/2023
Walk-Thru Number:	1st

Please have all items completed within six months of the date on this punchlist. If all items are not completed within six months, a new punchlist will be created. When all items are completed, please let your inspector know as soon as possible so they can come out to the project to confirm.

Findings to be addressed prior to scheduling a follow-up walk-thru:

Pond C1 (CDR207):

- Orifice plate was not properly installed. Invert of the bottom most hole should be at the same elevation as the invert of the outlet pipe.
- Remove sediment and debris from forebay 1 (SF 2110).
- Repair crack in concrete where forebay 1 meets the trickle channel.
- Repair cracking at south forebay pipe entrance.
- Remove debris and sediment from outfall structure micropool.
- Remove excess sediment and old straw wattles from trickle channel.
- Raise pond bottom to top of trickle channel curb with a 3% slope towards trickle channel for positive drainage.
- Remove sediment to match the top of trickle channel curb with a 3% slope towards trickle channel for positive drainage.
- Remove old/damaged straw wattles from pond bottom.

Pond C2.1 (CDR207 & PUDSP216):

- Orifice plate was not properly installed. Invert of the bottom most hole should be approximately ¼" higher than the invert of the outlet pipe per detail on sheet C9.4.
- Remove sediment to match the top of trickle channel curb with a 3% slope towards trickle channel for positive drainage.
- Remove sediment and debris in and around forebays.
- Remove debris and sediment from outfall structure micropool.

Pond C2.2 (CDR207):

- Remove excess sediment and road base from the trickle channel.
- Remove sediment to match the top of trickle channel curb with a 3% slope towards trickle channel for positive drainage.
- Notch on Forebay 'A' should be cut to 8". Reference sheet C9.6 on the CD's.
- Repair crack in concrete where the forebay meets the trickle channel.
- Remove debris and sediment from outfall structure micropool.
- Remove debris and sediment from forebays.

- Clean out spillway inlet structure.
- Repair damage to trickle channel curb approximately 30 feet from Forebay 'B'.
- Add bars to spillway inlet structure. Currently the inlet is accessible by the public and poses a safety hazard.

Pond C2.3 (CDR207):

- Orifice plate was not properly installed. Invert of the bottom most hole should be at the same elevation as the invert of the outlet pipe.
- Remove excess sediment and damaged straw wattles around outlet structure.
- Remove excess sediment and damaged straw wattles around forebay.
- Remove sediment to match the top of trickle channel curb with a 3% slope towards trickle channel for positive drainage.
- Add bars to spillway inlet structure. Currently the inlet is accessible by the public and poses a safety hazard.
- Remove sediment from trickle channel.
- Remove debris and sediment from forebay.
- Grade the entire pond bottom to achieve a 3% slope towards trickle channel for positive drainage.
- Repair crack in concrete where the forebay meets the trickle channel.

Pond C3 (CDR207):

- Remove excess sediment from trickle channel and match grade at top of trickle channel curb with a 3% slope towards trickle channel for positive drainage.
- Remove road base from east perimeter of trickle channel near outlet structure.
- Orifice plate was not properly installed. Invert of the bottom most hole should be at the same elevation as the invert of the outlet pipe.
- Remove old/damaged straw wattles, debris, and sediment from forebays.
- Remove debris and sediment from the outfall structure micropool.
- Remove debris and sediment from trickle channel.
- Raise pond bottom to top of trickle channel curb with a 3% slope towards trickle channel for positive drainage.

Pond C4 (CDR207 & PUDSP216):

- Raise pond bottom to top of trickle channel curb with a 3% slope towards trickle channel for positive drainage.
- Remove excess sediment from trickle channel and old/damaged straw wattles.
- Reinstall erosion control blankets along pond slopes behind Skyline Forebay.
- Remove debris and sediment from the trickle channel.
- Remove debris from the outfall structure micropool.
- Orifice plate was not properly installed. Invert of the bottom most hole should be at the same elevation as the invert of the outlet pipe.

Emergency Overflow form pond C2.2 and C2.3:

- Raise grade to be flush with the lip of the overflow structure.

East perimeter of Area 'B':

- Failure to implement permanent seeding.

Inlets:

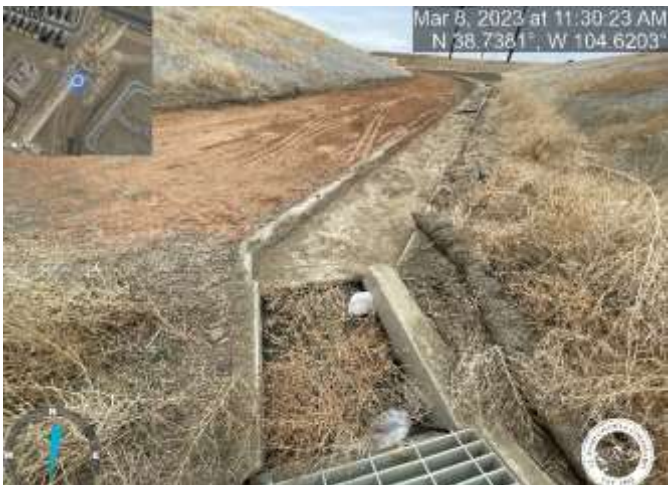
- Remove sediment and debris from inlets throughout site. Inlets are marked with a green dot on the lid (approximately 23 inlets).

Please have your engineer submit the following items (if they haven't already):

- Engineering Record Drawings (as-builts) consistent with Section 5.10.6 of the ECM.
- Volume Certification Letter(s) for pond(s), see ECM Chap 5.10.6.B for details on what type of statement should be included in the letter.

- Re-submit UD-Detention spreadsheet per changes shown in as-builts. Can be included with Cert Letter.
    - If significant changes, would need to also submit an updated SDI Form.

Photos:

	
Photo 1: Pond C1: Orifice plate was not properly installed. Invert of the bottom most hole should be at the same elevation as the invert of the outlet pipe.	Photo 2: Pond C1: Remove excess sediment and old straw wattles from trickle channel.

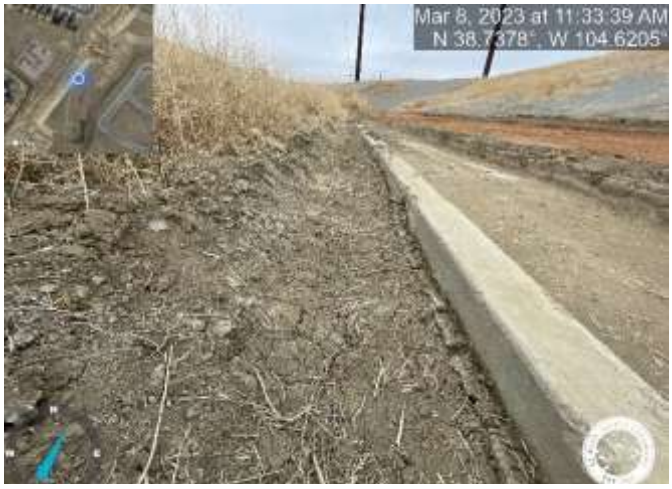
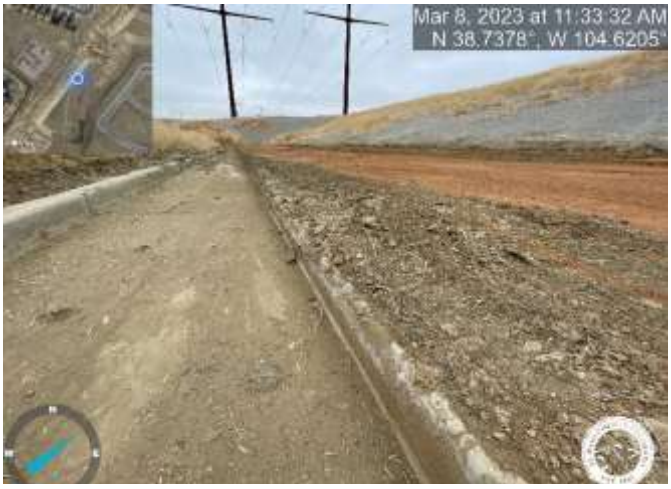
	

Photo 3: Pond C1: Raise pond bottom to top of trickle channel curb with a 3% slope towards trickle channel for positive drainage.	Photo 4: Pond C1: Remove sediment to match the top of trickle channel curb with a 3% slope towards trickle channel for positive drainage.

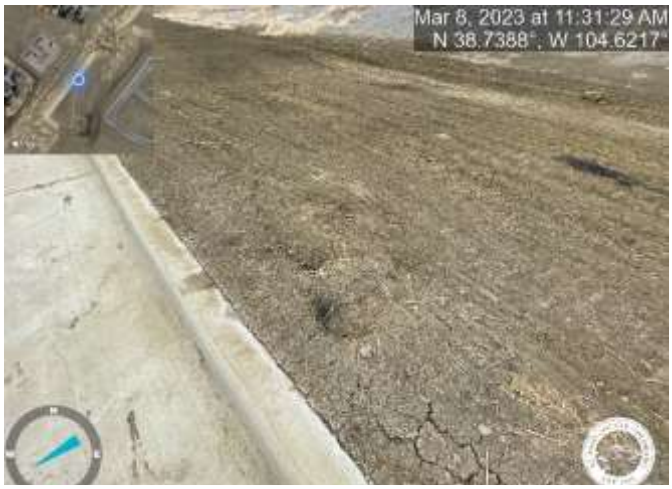
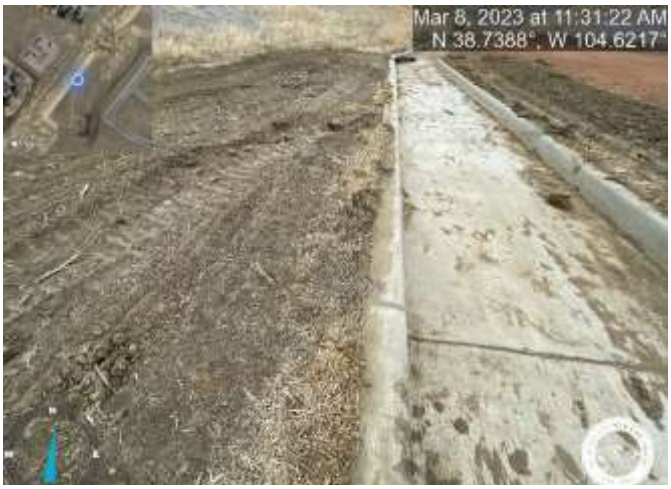
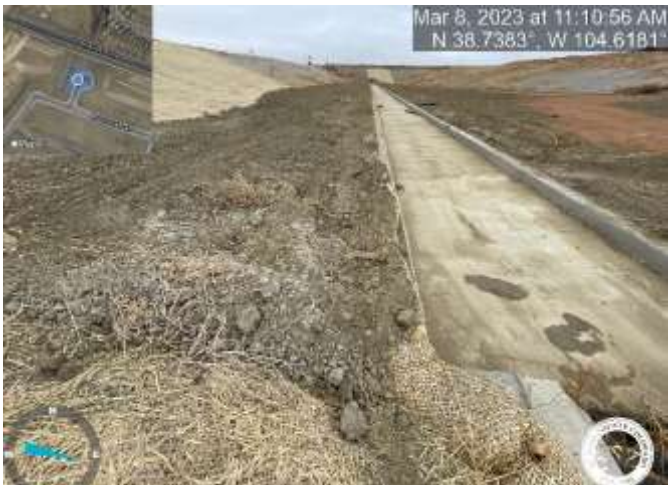
	

Photo 5: Pond C1: Remove old/damaged straw wattles from pond bottom.	Photo 6: Pond C1: Remove old/damaged straw wattles from pond bottom.

	
Photo 7: Pond C2.1: Orifice plate was not properly installed. Invert of the bottom most hole should be at the same elevation as the invert of the outlet pipe.	Photo 8: Pond C2.1: Remove sediment to match the top of trickle channel curb with a 3% slope towards trickle channel for positive drainage.

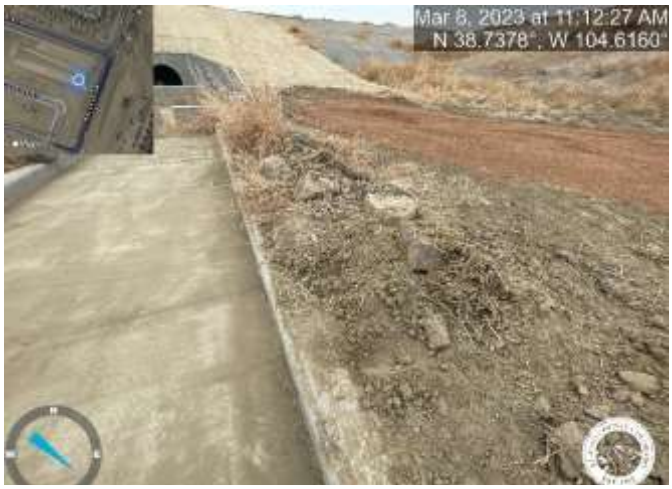
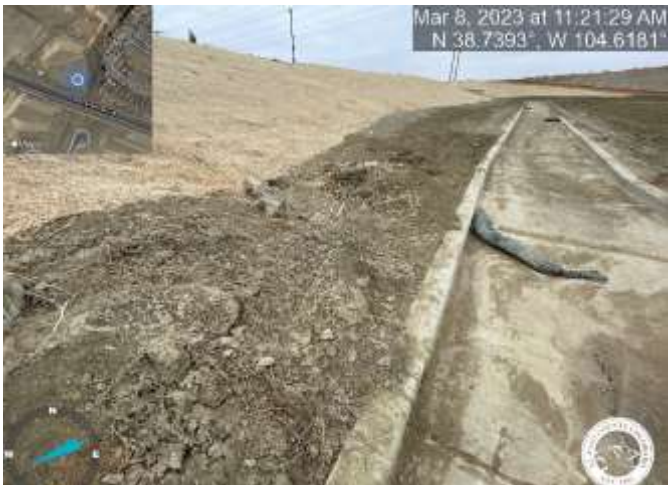


Photo 9: Pond C2.1: Remove sediment to match the top of trickle channel curb with a 3% slope towards trickle channel for positive drainage.	Photo 10: Pond C2.2: Notch on Forebay 'A' should be cut to 8". Reference sheet C9.6 on the CD's.
	
Photo 11: Pond C2.2: Remove excess sediment and road base from the trickle channel.	Photo 12: Pond C2.2: Remove sediment to match the top of trickle channel curb with a 3% slope towards trickle channel for positive drainage.

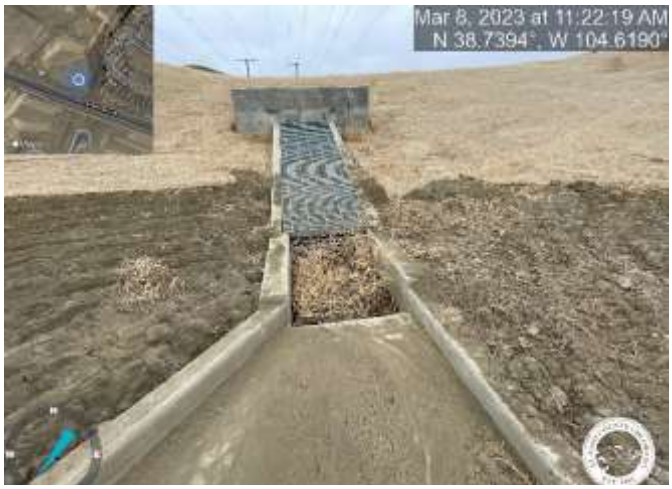


Photo 13: Pond C2.2: Match grade the top of trickle channel curb with a 3% slope towards trickle channel for positive drainage.	Photo 14: Pond C2.3: Orifice plate was not properly installed. Invert of the bottom most hole should be at the same elevation as the invert of the outlet pipe.

	
Photo 15: Pond C2.3: Remove excess sediment and damaged straw wattles around outlet structure.	Photo 16: Pond C2.3: Remove excess sediment and damaged straw wattles around forebay.

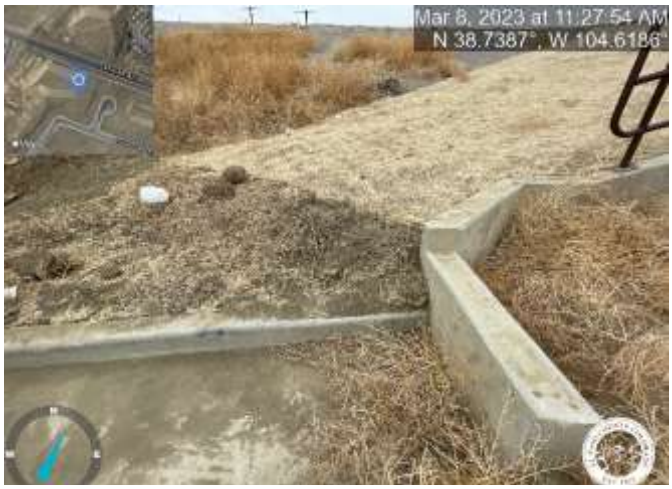
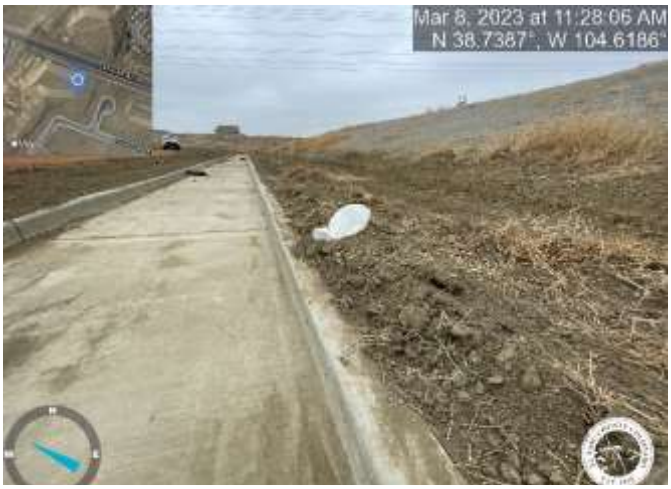
	

Photo 17: Pond C2.3: Remove sediment to match the top of trickle channel curb with a 3% slope towards trickle channel for positive drainage.	Photo 18: Pond C2.3: Remove sediment to match the top of trickle channel curb with a 3% slope towards trickle channel for positive drainage.

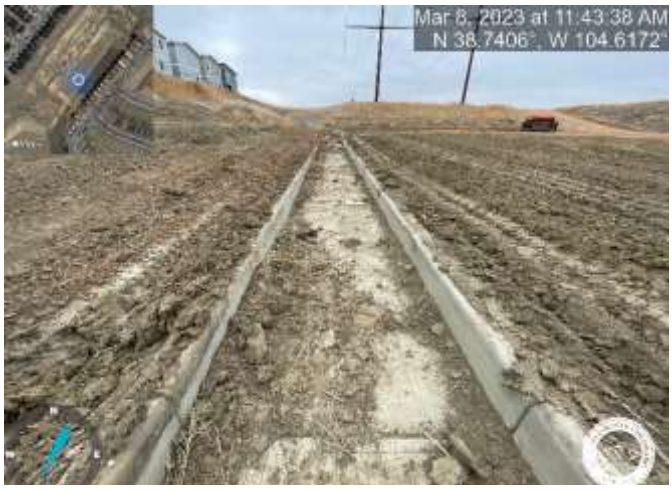
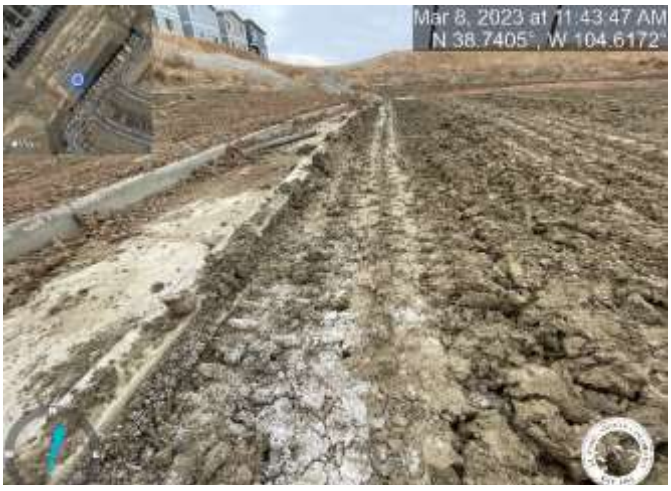
	

Photo 19: Pond C3: Remove excess sediment from trickle and match grade the top of trickle channel curb with a 3% slope towards trickle channel for positive drainage.	Photo 20: Pond C3: Remove excess sediment from trickle and match grade the top of trickle channel curb with a 3% slope towards trickle channel for positive drainage.

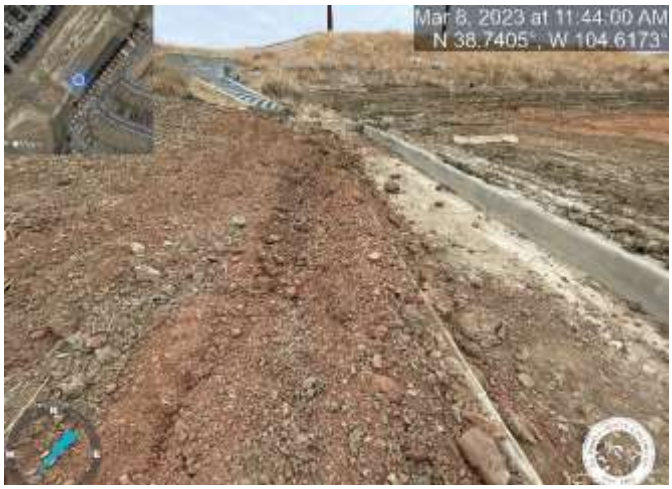
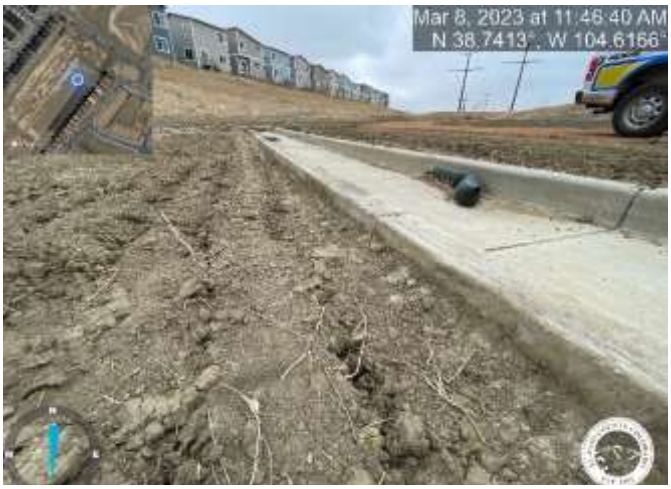


Photo 21: Pond C3: Remove road base from east perimeter of trickle channel near outlet structure.	Photo 22: Pond C3: Orifice plate was not properly installed. Invert of the bottom most hole should be at the same elevation as the invert of the outlet pipe.
	
Photo 23: Pond C3: Remove old/damaged straw wattles from forebay.	Photo 24: Pond C3: Raise pond bottom to top of trickle channel curb with a 3% slope towards trickle channel for positive drainage.

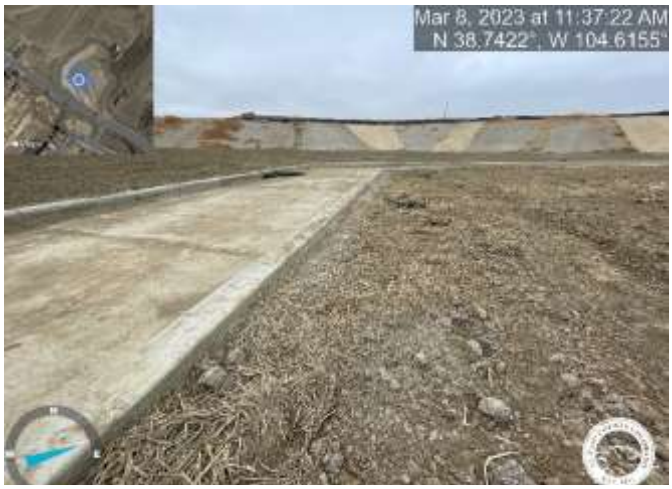


Photo 25: Pond C4: Raise pond bottom to top of trickle channel curb with a 3% slope towards trickle channel for positive drainage.	Photo 26: Pond C4: Remove excess sediment from trickle channel and old/damaged straw wattles.

	
Photo 27: Pond C4: Raise pond bottom to top of trickle channel curb with a 3% slope towards trickle channel for positive drainage.	Photo 28: Pond C4: Reinstall erosion control blankets along pond slopes.

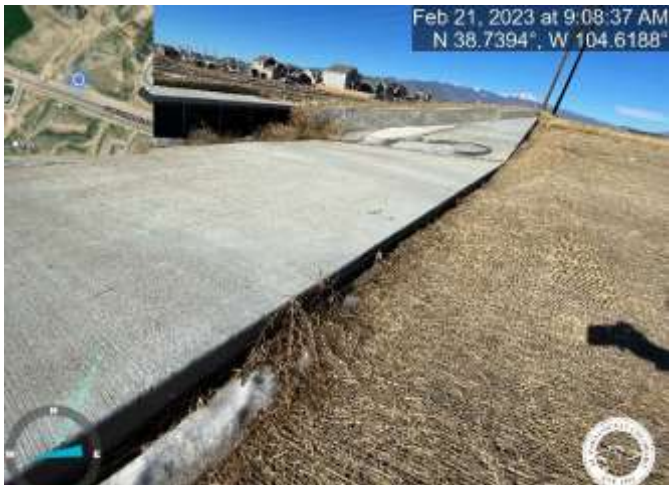
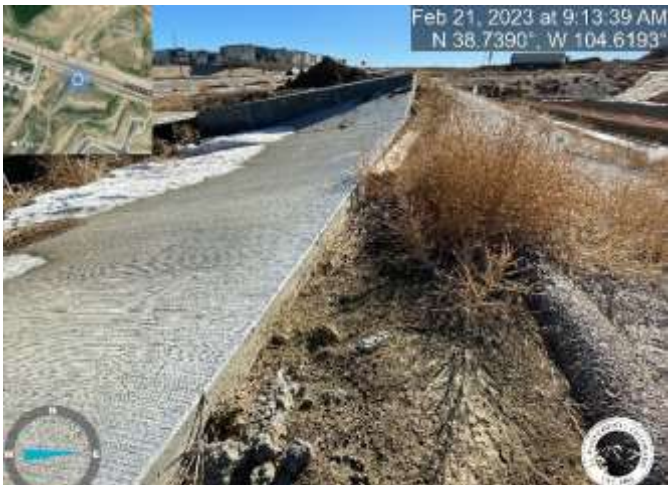
	

Photo 29: Emergency overflow form pond C2.2: Raise grade to be flush with overflow structure.	Photo 30: Emergency overflow form pond C2.3: Raise grade to be flush with overflow structure.

	
Photo 31: East perimeter of Area ‘B’: Failure to implement permanent seeding.	Photo 32: Remove sediment and debris from inlets throughout site. Inlets are marked with a green dot on the lid (approximately 23 inlets).