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January 21, 2022

Russell Pennington, P.E., Public Works Director
Town of Fraser
P.O. Box 370
153 Fraser Avenue
Fraser, Colorado 80442

RE: CONSTRUCTION PLANS FOR MEYER LOT 2 – US HIGHWAY 40 SANITARY CROSSING REVIEW

Dear Mr. Pennington:

We have reviewed Meyer Lot 2 – US 40 Sanitary Crossing submittal received January 14, 2022. The submittal included the Construction Plans for Meyer Lot 2 – US 40 Sanitary Sewer by Terracina Design. We have the following comments to offer related to the proposed sanitary sewer system.

Construction Plans

1. Sheet 2:
 - a. Update notes to apply to this project.
 - b. Note 15, Add erosion control and temporary facilities to plan set per CDPHE requirements.
2. Sheet 3:
 - a. Show asphalt removal on secondary access to Safeway paved road and provide pavement section information.
 - b. Provide pavement section information on US Highway 40 and Fraser River Trail.
 - c. Provide size and material of existing water line adjacent to sanitary sewer.
3. Sheet 4:
 - a. Provide measure down on existing water line valves east of sanitary sewer manhole STRC-18. Make sure valve box is free of debris prior to measuring and coordinate with Town of Fraser if a valve nut extension was installed on the valves. Adjust sewer depth if determined necessary.
 - b. Provide information on the updated sanitary sewer manhole STRC-18 base configuration and provide a detail. Provide plug for existing 8" PVC Outlet to the west per Town of Fraser Standards.
 - c. Remove 10' of existing 8" PVC Sanitary Sewer pipe west of manhole STRC-18 and provide plug.
 - d. Provide size and material of existing water line adjacent to sanitary sewer.
 - e. Provide note on removal and replacement of existing fence south of Fraser River Trail.

- f. Provide information or detail on how the new sanitary sewer manhole STRC-19 will be constructed in conjunction of keeping the 21" PVC trunk sewer in service.
 - g. The plan is depicting an open cut trench across US Highway 40. Please provided documentation from CDOT that this has been approved. The Town of Fraser will require a 20" (min.) dia. steel casing to be installed in the open cut scenario for future maintenance of the 15" PVC sewer main. If CDOT does not approve the open cut trench across US Highway 40, a 36" (min.) dia. Steel casing will be required for the jack and bore scenario.
 - h. Provide R.O.W. line north of US Highway 40. Provide R.O.W. for access road north of US Highway 40 in plan and profile.
 - i. Show water line crossing in profile with minimum separation.
 - j. Provide insulation for sewer pipe with depth less than 7' per town standards, show this in the profile view.
 - k. Show access road pavement and R.O.W. in profile.
 - l. Match crowns of the 15" and 21" at sanitary sewer manhole STRC-19.
4. Sheet 5:
- a. Provide Town of Fraser Sewer Main and Service Line Bedding & Backfill Detail (A-38).
5. Sheet 6:
- a. Provide detail for cast-in-place manhole base detail with specific information on how to connect to existing 21" PVC while keeping truck main in service. CDOT details do not apply since the manholes are not within CDOT R.O.W.. Additional details are needed for steel casing and asphalt paving.

Please let us know if you have any questions.

Sincerely,
MERRICK & COMPANY


Terrence P. Kenyon, P.E.



Jody M. Allen

cc: Adam Cwiklin, CWP, Town of Fraser Water and Wastewater Superintendent