

June 30, 2021

FLRD #6
2138 Flying Horse Club Drive
Colorado Springs, CO 80921



ENTECH
ENGINEERING, INC.

505 ELKTON DRIVE
COLORADO SPRINGS, CO 80907
PHONE (719) 531-5599
FAX (719) 531-5238

Attn: Mark Sherwood

Re: Drain Recommendations
Forest Lakes, Filing 6
Mesa Top Drive North
Colorado Springs, Colorado

Dear Mr. Sherwood:

As requested, personnel of Entech Engineering, Inc. have performed several site observations at Forest Lakes, Filing 6. During overlot grading, water was encountered along Mesa Top Drive North. Seepage occurred in the graded roadways and lots. Although the seepage is seasonal, subsurface drains, in addition to the main sewer underdrain, are recommended.

- A collector drain is recommended on the rear of lots 6 through 12.
- Lateral drains between lots 7/8, 10/11, and 12/13 are recommended, due to the elevation gain along Mesa Top Drive North.
- Later drains that tie into the main sewer underdrain are also recommended for lots 13 and 14.
- Seepage was noted in several areas along the road. These seepage areas should have gravel extended from the sewer underdrain to collect the flows.
- A 4-inch drain is recommended at the toe of the slope to intercept seepage on the south side of Mesa Top Drive North. This should tie into the sewer underdrain.
- A separate section of drain in the rear of lots 4 and 5 should also be considered.
- The main sewer drain along Mesa Top Drive North to the Tract D detention pond should be an 8-inch active drain.
- Drain pipes recommended:
 - Mesa Top Drive North: main sewer underdrain: 8 inches
 - Rear lot lines on lots 6 through 12: 6 inches
 - Lateral lines between lots: 4 inches

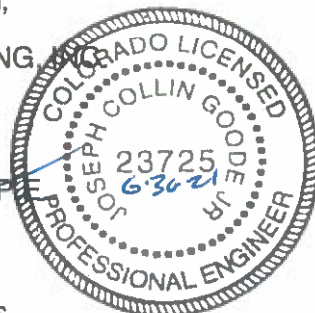
A preliminary drain layout is shown on the attached site plan. Modifications to the locations and extent of the lines may be warranted in the field as the system is installed.

We trust that this has provided you with the information you require. Should you have any questions or need further information, please do not hesitate to contact us.

Respectfully Submitted,

ENTECH ENGINEERING, INC.

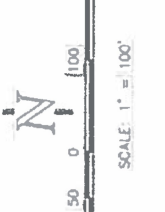

Joseph C. Goode, Jr., P.E.
President



Encl.

Entech Job No. 201326

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SCALE: 1" = 100'

SHEET 10

SHEET 13

SHEET 17

SHEET 16

SECTION 'C' (SHEET 17)

SECTION 'B' (SHEET 17)

SECTION (SHI) WALL GRAD (SHEET 16)

6" under drain active/passive T80

1 1/2" interceptor drain

Water in road needs to be directed to underdrain

SECTION 'C' (SHEET 17)

UNPLATTED

CLASS II SIGN, PANEL, OR SIGNAGE CLEARANCE

Make in road needs to be directed to under drain.

GENERAL NOTES

1. ALL WORK SHALL BE IN ACCORDANCE WITH THE LATEST EDITIONS OF THE STANDARD SPECIFICATIONS FOR ROAD AND BRIDGE CONSTRUCTION, SEVENTH EDITION, AND THE STANDARD SPECIFICATIONS FOR STRUCTURAL STEEL EROSION CONTROL, SECOND EDITION, AS APPLICABLE.

2. ALL MATERIALS SHALL BE SUBJECT TO INSPECTION AND APPROVAL BY THE ENGINEER.

3. ALL DIMENSIONS SHALL BE AS SHOWN UNLESS OTHERWISE NOTED.

4. ALL FINISHES SHALL BE AS SHOWN UNLESS OTHERWISE NOTED.

5. ALL UTILITIES SHALL BE PROTECTED AND DEEPER THAN THE DEPTH SHOWN.

6. ALL EROSION CONTROL MEASURES SHALL BE MAINTAINED THROUGHOUT CONSTRUCTION.

7. ALL WORK SHALL BE COMPLETED WITHIN THE SPECIFIED TIME FRAME.

8. ALL MATERIALS SHALL BE STORED PROPERLY TO PREVENT DAMAGE.

9. ALL WORK SHALL BE DONE IN ACCORDANCE WITH THE LOCAL ORDINANCES AND REGULATIONS.

10. ALL WORK SHALL BE DONE IN ACCORDANCE WITH THE STATE AND FEDERAL REGULATIONS.

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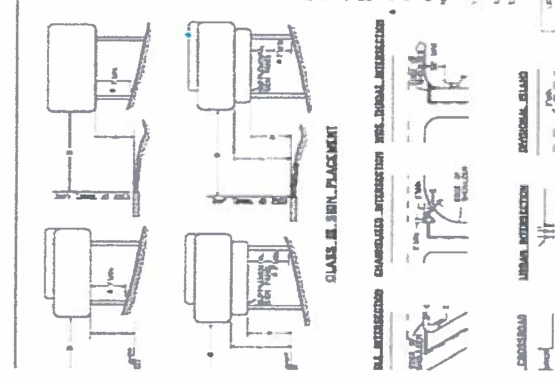
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KIOSK GRADING

UNPLATTED

SECTION 'B' (SHEET 17)

SECTION (SHI) WALL GRAD (SHEET 16)

SCALE: 1" = 100'

TYPE 3 BARRIQUE