PROJECT REFERENCE NO.	SHEET NO.
15614.1050014	2G–1

GEOTECHNICAL ENGINEER

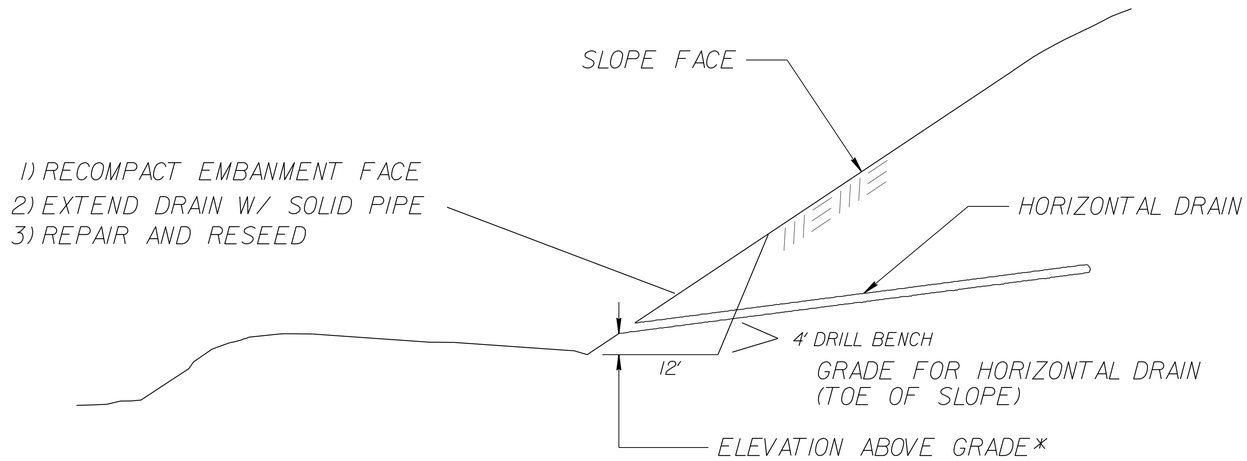
NORTH CAROLINA PROFESSIONAL SEAL 027361 ENGINEER JODY C. KUHNE

DocuSigned by: Jody C. Kuhne 5/3/2021

SIGNATURE DATE

SIGNATURE DATE

DOCUMENT NOT CONSIDERED FINAL UNLESS ALL SIGNATURES COMPLETED

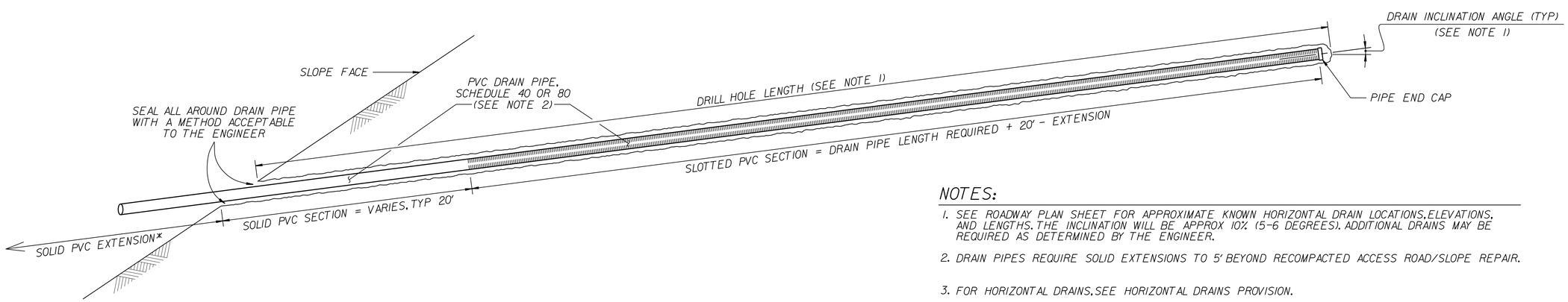


EXAMPLE CROSS–SECTION WITH SLOPE HORIZONTAL DRAIN

*SEE NOTE 1 FOR DRAIN ELEVATIONS ABOVE (OR BELOW) GRADE

PROJECT QUANTITIES

LOCATION	NUMBER	LINEAR FEET
STA 758+40–769+50+00 RT BOTTOM ROW	44	8220
STA 761+40–767+20 RT UPPER ROW	24	3120
TOTAL	68	11,340



SLOPE HORIZONTAL DRAIN

*EXTEND SOLID PVC SECTION TO CONNECT PIPE TO A DRAINAGE SYSTEM OR DISCHARGE WATER AS DIRECTED

NOTES:

1. SEE ROADWAY PLAN SHEET FOR APPROXIMATE KNOWN HORIZONTAL DRAIN LOCATIONS, ELEVATIONS, AND LENGTHS. THE INCLINATION WILL BE APPROX 10% (5-6 DEGREES). ADDITIONAL DRAINS MAY BE REQUIRED AS DETERMINED BY THE ENGINEER.
2. DRAIN PIPES REQUIRE SOLID EXTENSIONS TO 5' BEYOND RECOMPACTED ACCESS ROAD/SLOPE REPAIR.
3. FOR HORIZONTAL DRAINS, SEE HORIZONTAL DRAINS PROVISION.
4. CONSTRUCTION SEQUENCE: INSTALL TOE DRAINS, THEN MID-SLOPE DRAINS, FOLLOWED BY SURFACE DRAINAGE AND REPAIRS AT-GRADE

NORTH CAROLINA DEPARTMENT OF TRANSPORTATION
DIVISION OF HIGHWAYS

GEOTECHNICAL ENGINEERING UNIT

STANDARD DETAIL NO. 817.01

STANDARD HORIZONTAL DRAIN

DATE: 12-30-20