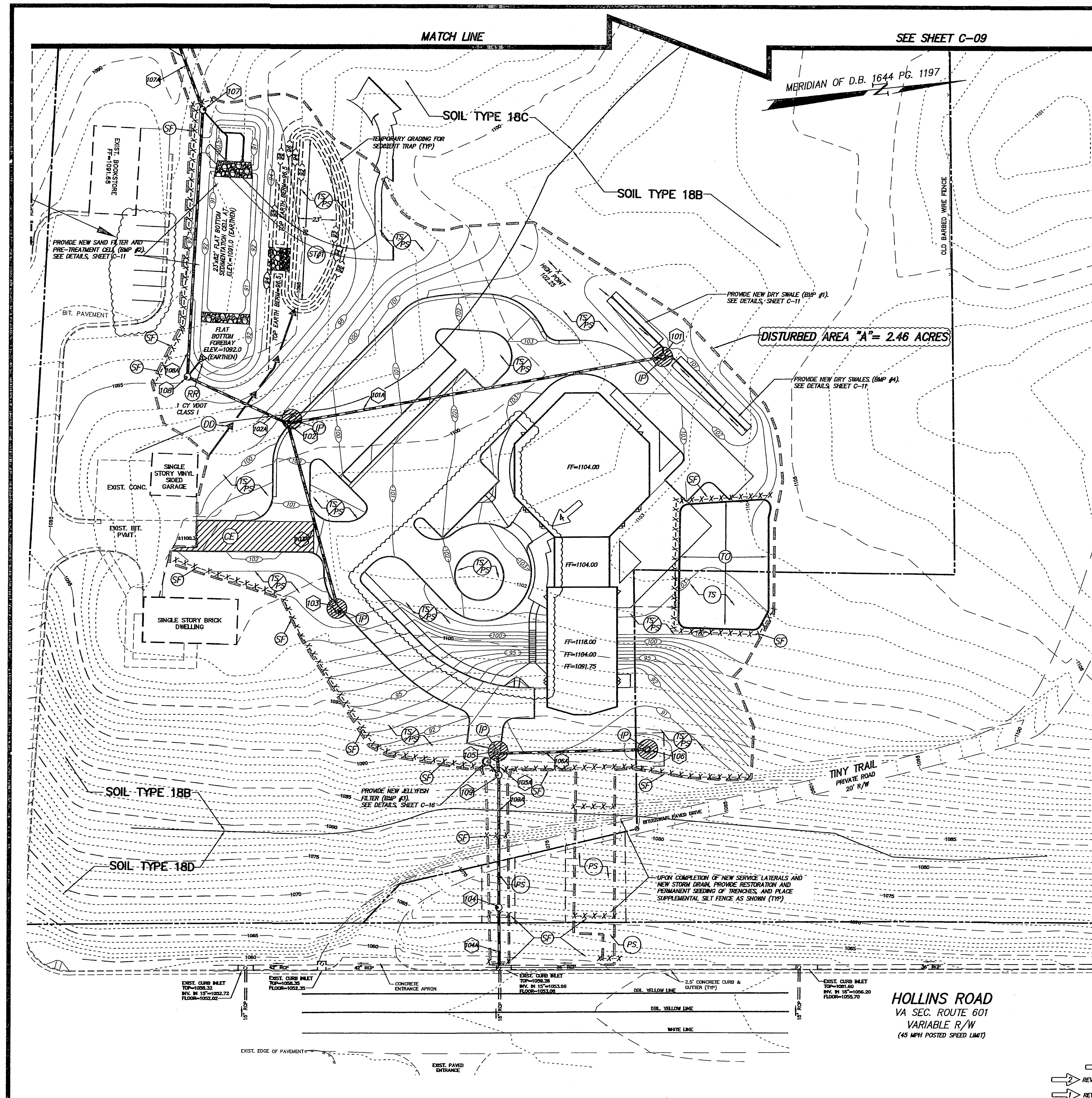




SEE SHEET C-09

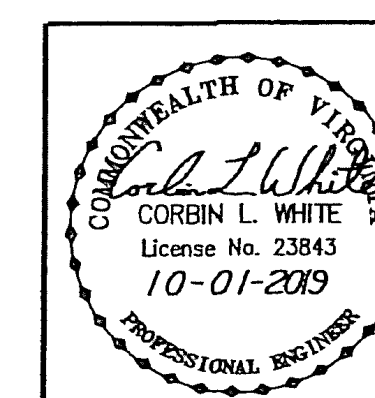
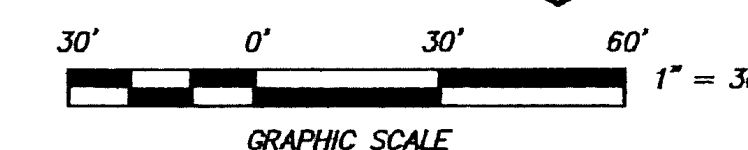
SOIL EROSION CONTROL MEASURES

- CE TEMPORARY CONSTRUCTION ENTRANCE**
A TEMPORARY STONE CONSTRUCTION ENTRANCE SHALL BE PROVIDED OFF OF EXISTING PAVED SURFACES, AS SHOWN HEREON. THIS ENTRANCE SHALL BE CONSTRUCTED AND MAINTAINED IN ACCORDANCE WITH THESE PLANS AND THE VIRGINIA EROSION AND SEDIMENTATION CONTROL HANDBOOK, LATEST EDITION.
- SF SILT FENCE BARRIER**
A SILT FENCE BARRIER SHALL BE PROVIDED BELOW DENUDED AREAS AS SHOWN ON THE PLANS. THIS BARRIER SHALL BE INSTALLED AND MAINTAINED IN ACCORDANCE WITH THESE PLANS AND THE VIRGINIA EROSION AND SEDIMENTATION CONTROL HANDBOOK, LATEST EDITION.
- IP INLET PROTECTION**
NEW AND EXISTING POINTS OF STORMWATER COLLECTION SHALL BE PROTECTED FROM INFILTRATION OF SEDIMENT LADEN RUNOFF DURING ALL PHASES OF CONSTRUCTION. IT IS PARTICULARLY CRITICAL FOR THIS PROJECT, AS THE STORM DRAINAGE STRUCTURES ARE DIRECTLY CONNECTED TO A ONE-HALF PERCENT SLOPE PIPE STORAGE SYSTEM. THE CONTRACTOR SHALL INSPECT AND CLEAN SEDIMENT FROM THE STORAGE PIPES AS REQUIRED FOLLOWING EACH RAINFALL OR AS REQUIRED BY STATE PERMITS. UPON SUBSTANTIAL COMPLETION OF THE PROJECT AND STABILIZATION OF ALL DISTURBED AREAS, THE CONTRACTOR SHALL CLEAN ALL SEDIMENT FROM THE SYSTEM.
- RR PERMANENT RIP-RAP**
AS SHOWN HEREON, PERMANENT VDOT STANDARD CLASS I DRY RIP-RAP AND FABRIC UNDERLAYMENT SHALL BE PROVIDED AT THE LOW-FLOW PIPE OUTFALL AT THE SAND FILTER TO PREVENT SCOUR. MATERIALS SHALL BE IN ACCORDANCE WITH VDOT SPECIFICATIONS, AND INSTALLATION SHALL BE IN ACCORDANCE WITH VDOT STANDARD EC-1.
- RR RIP-RAP SHALL BE 1.5' WIDE AT PIPE OUTLET (CENTERED ON PIPE), 4.5' WIDE AT BOTTOM OF SLOPE, 4' IN LENGTH (PIPE OUTLET TO BOTTOM OF SLOPE), FOR A PLAN AREA OF 12 SQ. FT., AND SHALL HAVE A THICKNESS OF 26" = 2.17', FOR A TOTAL VOLUME OF 26 CUBIC FEET, OR APPROX. 1 CUBIC YARD OF STONE. TOP OF RIP-RAP SHALL BE FLUSH WITH SURROUNDING FINISH GRADE.**
- TS TEMPORARY SEEDING**
ALL DISTURBED AREAS NOT BEING DISTURBED FOR MORE THAN 14 DAYS SHALL RECEIVE TEMPORARY SEEDING.
- PS PERMANENT SEEDING**
ALL DISTURBED AREAS SHALL BE PERMANENTLY SEEDING WITHIN SEVEN (7) DAYS OF ACHIEVING FINAL GRADE, OR ON DISTURBED AREAS THAT WILL NOT BE BROUGHT TO FINAL GRADE WITHIN ONE YEAR. IN THE EVENT THAT CERTAIN DISTURBED AREAS ARE TO BE LANDSCAPE MULCHED IN LIEU OF PERMANENT SEEDING, THE AREAS MUST BE MULCHED WITH SHREDDED HARDWOOD OR OTHER PROTECTIVE COVERINGS IN ACCORDANCE WITH THE TIMELINES FOR TEMPORARY AND PERMANENT SEEDING, SHOWN HEREIN.
- CIP CULVERT INLET PROTECTION**
PROVIDE CULVERT INLET PROTECTION AT THE INLET END OF THE EXISTING 15" CONCRETE PIPE THAT DRAINS THE EXISTING POND.
- DD TEMPORARY DIVERSION DIKE**
TEMPORARY DIVERSION DIKES SHALL BE INSTALLED TO DIRECT RUNOFF FROM DISTURBED ACTIVITIES TO THE NEW SEDIMENT TRAP.
- ST TEMPORARY SEDIMENT TRAP**
AS SHOWN HEREON, A TEMPORARY SEDIMENT TRAP SHALL BE INSTALLED IN CONJUNCTION WITH TEMPORARY DIVERSION DIKES TO PROVIDE PROTECTION FROM SEDIMENTATION OF DOWNSTREAM LANDS UNTIL SUCH TIME THAT THE PERMANENT STORM DRAINAGE SYSTEMS ARE IN-PLACE, FUNCTIONAL, AND POINTS OF COLLECTION PROTECTED FROM SEDIMENTATION.
- | SED. TRAP | S.A. (SQ. FT.) | DET. VOL. (CU YD) | NET VOL. (CU YD) | PROVIDED DRY VOL. (CU YD) | PROVIDED DRY VOL. (CU YD) | BOTTOM DIMENS. (FT.) | NET DEPTH (FT.) | DRY DEPTH (FT.) | OUTLET BODY (L) (FT.) | DET. STONE ELEV. | TOP STONE ELEV. | TOP EARTH BERM ELEV. |
|-----------|----------------|-------------------|------------------|---------------------------|---------------------------|----------------------|-----------------|-----------------|-----------------------|------------------|-----------------|----------------------|
| #1 | 2,300 | 154 | 156 | 154 | 162 | 23'x36' (SEE PLAN) | 2.0 | 1.5 | 13.8 | 1094.0 | 1095.5 | 1096.5 |
- SEE "SOIL EROSION CONTROL DETAILS AND COST ESTIMATE" SHEET FOR DETAILS
- TO TOPSOILING**
CONTRACTOR SHALL STRIP SURFICIAL SOILS FROM ALL AREAS OF DISTURBANCE, AND STOCKPILE SUFFICIENT TOPSOIL IN THE LOCATION SHOWN HEREON TO REPLACE 6" THICK TOPSOIL ON AREAS NOT TO RECEIVE HARD SURFACING OR SAND FILTER. PROVIDE PERIMETER SILT FENCE SA SHOWN HEREON.

SEE SHEET C-15 FOR SOIL EROSION CONTROL DETAILS

SEE SHEET C-14 FOR CONSTRUCTION SEQUENCING

SEE SHEETS C-10 AND C-13 FOR NEW STORM DRAIN ITEMS



Designed: C.L. White
Drawn: C.L. White
Checked: C.L. White
Date: October 03, 2014
Scale: 1" = 30'
Tax Parcel: 38.05-01-08.00
Field Book: CH-8
N.O. No.: 14-0046

SOIL EROSION AND SEDIMENTATION CONTROL PLAN
FOR
**SEVENTH DAY ADVENTIST REFORM
MOVEMENT GENERAL CONFERENCE**
SHOWING CONSTRUCTION OF A NEW CHAPEL FACILITY AND
ASSOCIATED PARKING
SITUATE 5232 / 5248 HOLLINS ROAD, NE
HOLLINS MAGISTERIAL DISTRICT
COUNTY OF ROANOKE, VIRGINIA

CWA
CALDWELL WHITE ASSOCIATES
ENGINEERS / SURVEYORS / PLANNERS
4203 MELROSE AVENUE
P.O. BOX 8890
ROANOKE, VIRGINIA 24017-0280
(540) 366-3400
FAX: (540) 366-8702

HOLLINS ROAD
VA SEC. ROUTE 601
VARIABLE R/W
(45 MPH POSTED SPEED LIMIT)

- REVISED OCTOBER 01, 2019: FIELD REV.-FRONT DROPOFF - CLW
REVISED FEBRUARY 16, 2015 PER R.R. CO. / VDOT / WYMA REVIEW - CLW
REVISED DECEMBER 11, 2014 PER R.R. CO. / VDOT / WYMA REVIEW - CLW

R.K. Othman
ROANOKE COUNTY APPROVER
11/5/2019