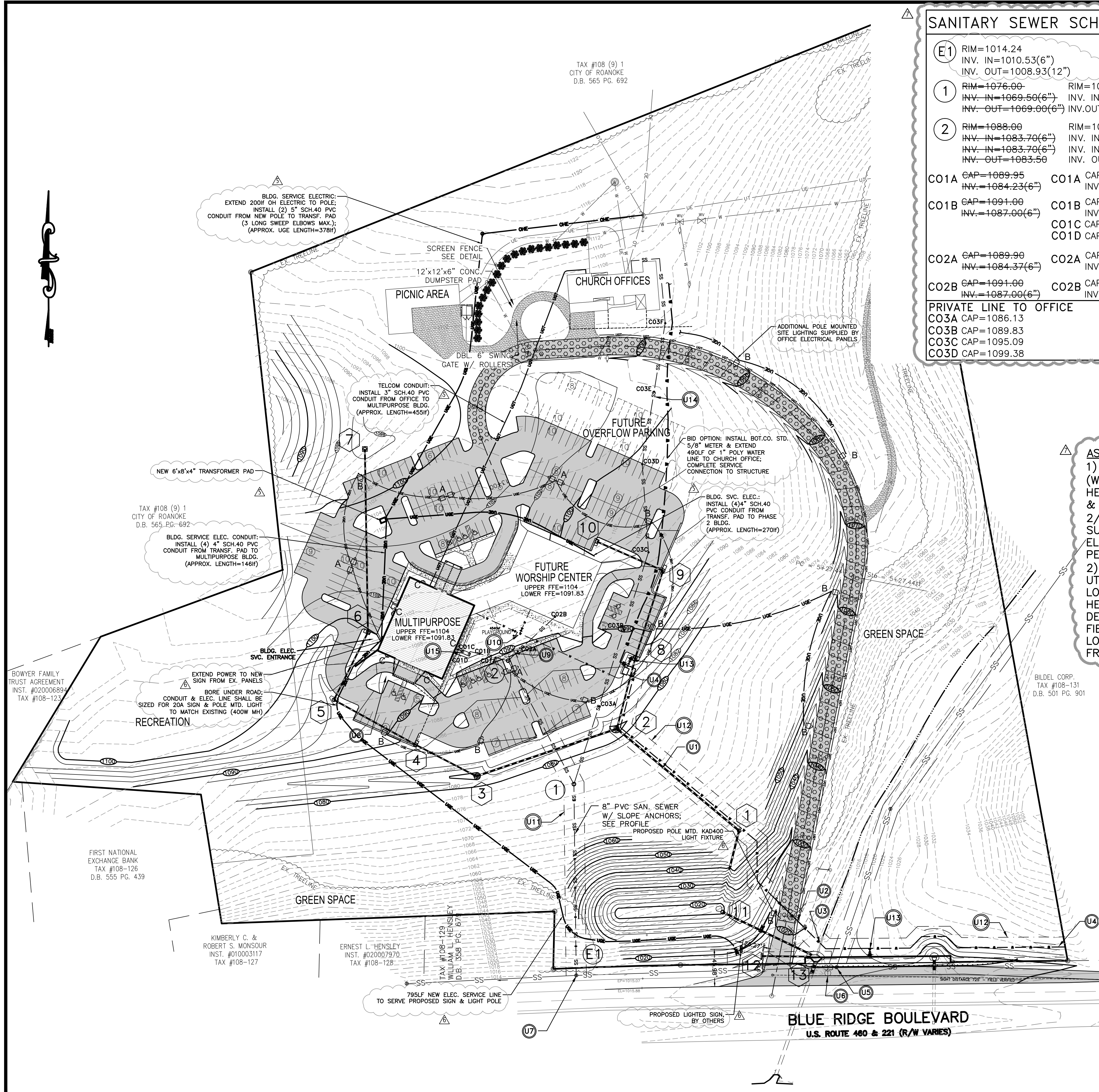




SANITARY SEWER SCHEDULE

E1	RIM=1014.24 INV. IN=1010.53(6") INV. OUT=1008.93(12")	
1	RIM=1076.00 INV. IN=1069.50(6") INV. OUT=1069.00(6")	RIM=1076.11 INV. IN=1069.50(6") INV. OUT=1069.31(6")
2	RIM=1088.00 INV. IN=1083.70(6") INV. IN=1083.70(6") INV. OUT=1083.50	RIM=1089.75 INV. IN=1083.64(6") INV. IN=1083.64(6") INV. OUT=1083.44
C01A	CAP=1089.95 INV.=1084.23(6")	C01A CAP=1090.09 INV.=1084.39(6")
C01B	CAP=1091.00 INV.=1087.00(6")	C01B CAP=1090.55 INV.=1085.55(6") C01C CAP=1091.68 C01D CAP=1091.54
C02A	CAP=1089.90 INV.=1084.37(6")	C02A CAP=1089.87 INV.=1084.37(6")
C02B	CAP=1091.00 INV.=1087.00(6")	C02B CAP=1091.16 INV.=1086.36(6")
PRIVATE LINE TO OFFICE		
C03A	CAP=1086.13	
C03B	CAP=1089.83	
C03C	CAP=1095.09	
C03D	CAP=1099.38	

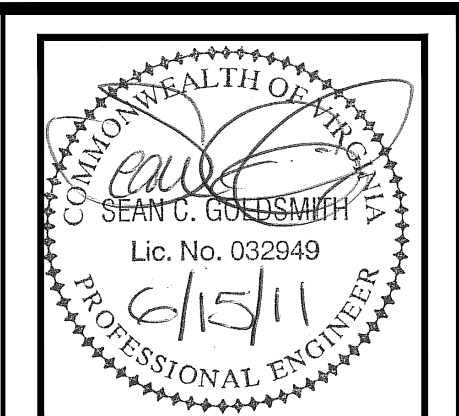
- U1 INSTALL STORM SEWER TO MANAGEMENT POND AS INDICATED; SEE STORM BEDDING DETAIL.
- U2 INSTALL 49LF OF 12" STEEL CASING PIPE UNDER ACCESS ROAD; BOTH ENDS OF CASING PIPE SHALL BE CAPPED PER BOT. CO. DETAILS FOR PASS THROUGH OF WATERLINE; PAINTED STEEL GRADE MAKERS WITH REFLECTIVE TAPE SHALL BE PLACED ADJACENT TO EACH END.
UPHILL STA: 1+08.03 OFFSET -18'
DOWN HILL STA: 0+93.69 OFFSET 23'
- U3 WATERLINE SHALL PASS OVER EXISTING CULVERT; CONCRETE ENCASE WATERLINE OVER CULVERT; SEE PROFILE
- U4 CONNECT TO BROOKFIELD WATER SYSTEM WATERLINE AT PROPERTY LINE. INSTALL 798LF OF 6" C909 WATER LINE; INSTALL 6X6X6 TEE, GATE VALVE & HYDRANT AS SHOWN. EXTEND 6" LINE TO METER VAULT AS INDICATED. INSTALL 2" SENSUS SR WATER METER; EXTEND 194 LF 2" POLYETHYLENE WATER LINE TO NEW BUILDING AS INDICATED ON PLAN; SEE SHEET C11A FOR 6" PROFILE
- U5 RAISE SS. MANHOLE FRAME AND COVER TO MATCH NEW PAVEMENT ELEV.: 1017.21
- U6 RAISE TEL. MANHOLE FRAME AND COVER TO MATCH NEW PAVEMENT ELEV.: 1017.46
- U7 CORE EX. MH. FOR NEW 6" LATERAL CONNECTION; INSTALL WATERTIGHT FLEXIBLE BOOT IN NEW HOLE; BOTETOURT CO. UTILITY PERSONNEL SHALL BE ONSITE DURING MODIFICATIONS TO EX. MH.
- U8 EXTEND UNDERGROUND ELEC. TO SITE LIGHTING AS SHOWN; ALL UGE SHALL BE INSTALLED IN PVC CONDUIT.
- U9 INSTALL 6" TRAFFIC BEARING CLEANOUTS AT EASEMENT LINE ON EACH LATERAL TO PROPOSED BUILDINGS.
- U10 INSTALL 2-1/2"x2"x2" TEE IN LINE WITH 2" SERVICE EXTENSION TO FUTURE WORSHIP CENTER. INSTALL 2" GATE VALVE WITH TRAFFIC BEARING VALVE BOX AND EXTEND 2" SERVICE TO WITHIN 5' OF FUTURE BUILDING & CAP/PLUG LINE. INSTALL AIR/VACUUM RELEASE VALVE (ARV) AT HIGHEST POINT IN LINE IMMEDIATELY UPSTREAM OF TEE. EXTEND 2" LINE WITH GATE VALVE & TRAFFIC BEARING VALVE BOX TO MULTIPURPOSE BUILDING.
- U11 NEW 25" WIDE SANITARY SEWER EASEMENT CENTERED ON 6" SEWER LINE TO MANHOLE 2. EASEMENT SHALL EXTEND 5' BEYOND MANHOLE 2. EASEMENT SHALL BE DEDICATED TO BOTETOURT COUNTY.
- U12 NEW 25" WIDE WATER EASEMENT CENTERED ON 6" WATER LINE TO METER VAULT. EASEMENT SHALL EXTEND 2' BEYOND VAULT. EASEMENT SHALL BE DEDICATED TO BROOKFIELD WATER SYSTEM.
- U13 REFER TO WATER CALCULATIONS FOR PRESSURES & SYSTEM INFORMATION.
- U14 INSTALL 6" SAN. SEWER LATERAL TO CHURCH OFFICES. DISCONNECT EXISTING OFFICE FROM SEPTIC SYSTEM & PERMANENTLY PLUG LINE TO SEPTIC SYSTEM.
- U15 INSTALL ADS 0750ANGT 750gal HDPE GREASE TRAP PER MFR. INSTRUCTIONS WITH TRAFFIC BEARING FRAME & COVER. COMBINE 4" DISCHARGE FROM GREASE TRAP AND 4" SANITARY DISCHARGE FROM MULTIPURPOSE INTO SINGLE 6" PVC LATERAL. INSTALL CLEANOUT IMMEDIATELY DOWNSTREAM OF LINE COMBINATION.

AS-BUILT INFORMATION NOTES:
1) ALL PUBLIC SANITARY SEWER (WITHIN EASEMENTS) INDICATED HEREON HAS BEEN FIELD LOCATED & VERIFIED BY SURVEY on 2/14/11 BY MCMURRY SURVEYORS. INVERT AND RIM ELEVATIONS HAVE BEEN UPDATED PER THIS INFORMATION.
2) OTHER PHYSICAL FEATURES & UTILITIES WERE NOT FIELD LOCATED. LOCATIONS INDICATED HEREON ARE BASED ON ORIGINAL DESIGN DATA ALONG WITH KNOWN FIELD MODIFICATIONS. ACTUAL LOCATIONS MAY VARY SLIGHTLY FROM PLANS.

STORM SEWER SCHEDULE

1	4'-0" MH TOP=1050.50 INV. IN=1045.00(24") INV. OUT=1045.00(24")
2	DI-7 TOP=1079.00 INV. IN=1070.50(18") INV. IN=1070.50(24") INV. OUT=1070.50(24")
3	DI-7 TOP=1079.00 INV. IN=1074.50(18") INV. OUT=1074.50(24")
4	DI-3B, L=8' TOP=1088.92 INV. IN=1084.42(18") INV. OUT=1084.42(18")
5	DI-7 TOP=1092.25 INV. IN=1087.75 INV. OUT=1087.75(18")
6	DI-3B, L=8' TOP=1100.40 INV. OUT=1090.78(18")
7	DI-7 TOP=1097.00 INV. OUT=1093.00(18")
8	DI-3B, L=8' TOP=1088.92 INV. IN=1084.42(18") INV. OUT=1084.42(18")
9	DI-3B, L=10' TOP=1094.50 INV. IN=1089.90(18") INV. OUT=1089.90(18")
10	DI-3B, L=8' TOP=1098.50 INV. OUT=1093.00(18")
11	DI-7, 5'-0" TOP=1026.58 INV. OUT=1018.25(24")
12	EW-1PC TOP=1016.00 INV.=1012.80(18")
13	48"x48" BOX CULVERT W/WINGWALLS NEW INV.=1010.75

NOTE:
ALL STORM SEWER STRUCTURES SHALL HAVE INLET SHAPING IN ACCORDANCE WITH VDOT IS-1 STD. DETAIL



Revisions By	Date
SCG - Bot.Co & VDOT Cmnts	4/22/08
SCG - Owner Layout Rvns	10/24/08
KJP - Bot. Co. Cmnts	11/12/08
SCG - FFE/Wtr Svc. Grease Trap	4/29/09
SCG - Office-Multip. Conduit	8/3/09
SCG - Sign Power Extension	12/9/10
SCG - Sewer As-Built Info.	3/9/11

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UTILITIES PLAN - PARTIAL AS-BUILT
HARVEST MINISTRIES
NEW FACILITIES DEVELOPMENT
BOTETOURT COUNTY, VIRGINIA

Scale: 1"=60'
Date: 2/26/08
Design By: SCG
CAD By: KJP
Checked By: SCG
Comm. No.: 07113

Sheet No.
C5